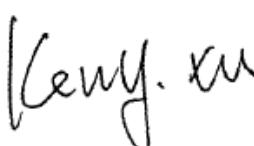


TEST REPORT

Application No.:	SZEM2006005014CR
Applicant:	Mekotronics Co., Ltd
Address of Applicant:	Rm1103-1105, Hengrong Lifang Building, Baomin 2 nd Rd, Baoan District, Shenzhen, China
Manufacturer:	Mekotronics Co., Ltd
Address of Manufacturer:	Rm1103-1105, Hengrong Lifang Building, Baomin 2 nd Rd, Baoan District, Shenzhen, China
Factory:	Mekotronics Co., Ltd
Address of Factory:	Rm1103-1105, Hengrong Lifang Building, Baomin 2 nd Rd, Baoan District, Shenzhen, China
Equipment Under Test (EUT):	
EUT Name:	8 inch tablet
Model No.:	X8
Trade Mark:	Reality Interactive
FCC ID:	2AWPHFEX8V2
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2020-06-12
Date of Test:	2020-06-25 to 2020-07-08
Date of Issue:	2020-07-17
Test Result:	Pass*

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



Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-07-17		Original

Authorized for issue by:			
		Leo Li /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
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated 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 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Fail

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4 General Information

4.1 Details of E.U.T.

Power Supply:	Adapter Model: HLT-180-1203000 Input: 100-240VAC, 50/60Hz 2A Max Output: DC12V 3A
Cable:	AC cable: 80cm unshielded DC cable: 80cm unshielded
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	2dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.

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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz) $\pm 4.8\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz) $\pm 4.8\text{dB}$ (Above 1GHz)
10	Temperature test	$\pm 1^\circ\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1\%$
13	Time	$\pm 3\%$

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4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

- **VCCI**

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

- **FCC –Designation Number: CN1178**

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

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27



Power Spectrum Density

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Conducted Band Edges Measurement

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Conducted Spurious Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23

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Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
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Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Emissions (Above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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 2dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

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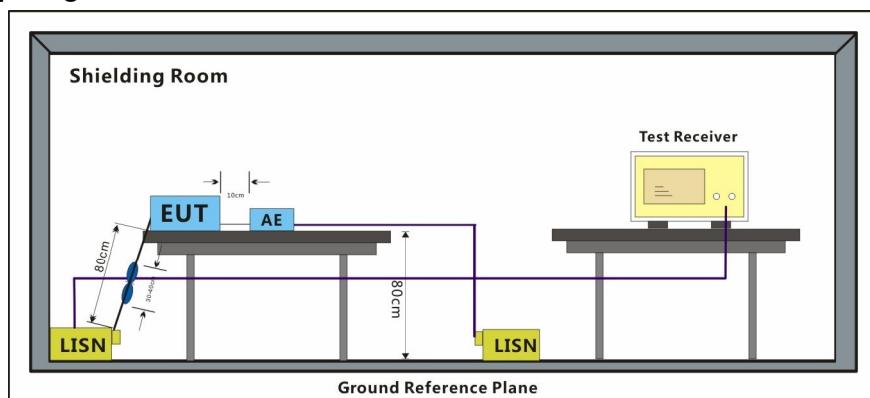
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1005 mbar

Test mode b: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); Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

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

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



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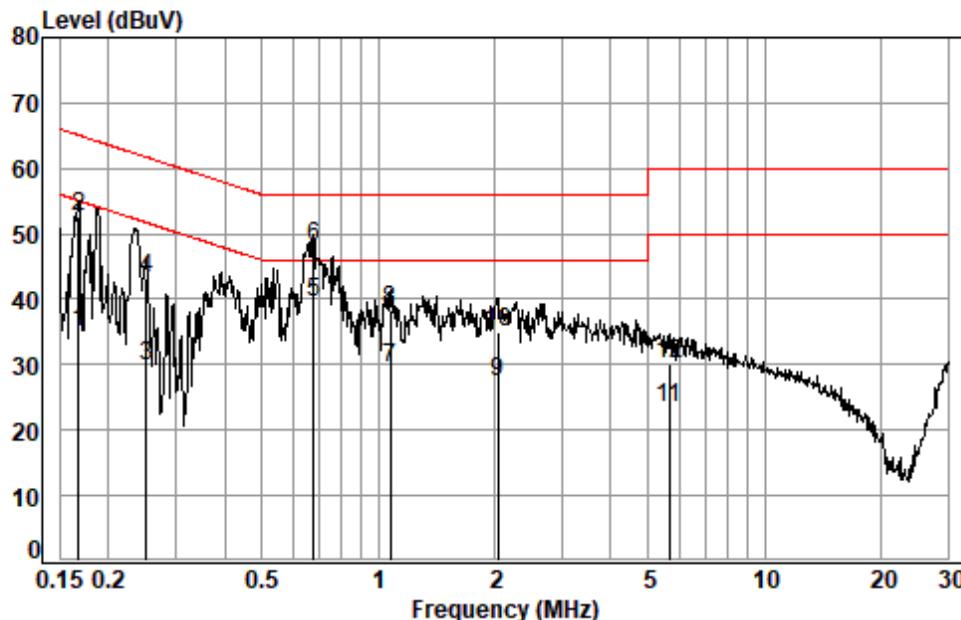
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Mode:b; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 05014CR
Test mode: b

Freq	Cable	LISN	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Level	Level	Line	Limit
1	0.1677	0.01	9.68	25.27	34.96	55.08	-20.12 Average
2	0.1677	0.01	9.68	42.80	52.49	65.08	-12.59 QP
3	0.2508	0.03	9.68	20.10	29.81	51.73	-21.92 Average
4	0.2508	0.03	9.68	33.60	43.31	61.73	-18.42 QP
5	0.6790	0.07	9.69	29.91	39.67	46.00	-6.33 Average
6	0.6790	0.07	9.69	38.21	47.97	56.00	-8.03 QP
7	1.0767	0.10	9.70	19.62	29.42	46.00	-16.58 Average
8	1.0767	0.10	9.70	28.45	38.25	56.00	-17.75 QP
9	2.0441	0.16	9.75	17.40	27.31	46.00	-18.69 Average
10	2.0441	0.16	9.75	25.19	35.10	56.00	-20.90 QP
11	5.6532	0.17	9.85	13.53	23.55	50.00	-26.45 Average
12	5.6532	0.17	9.85	20.10	30.12	60.00	-29.88 QP

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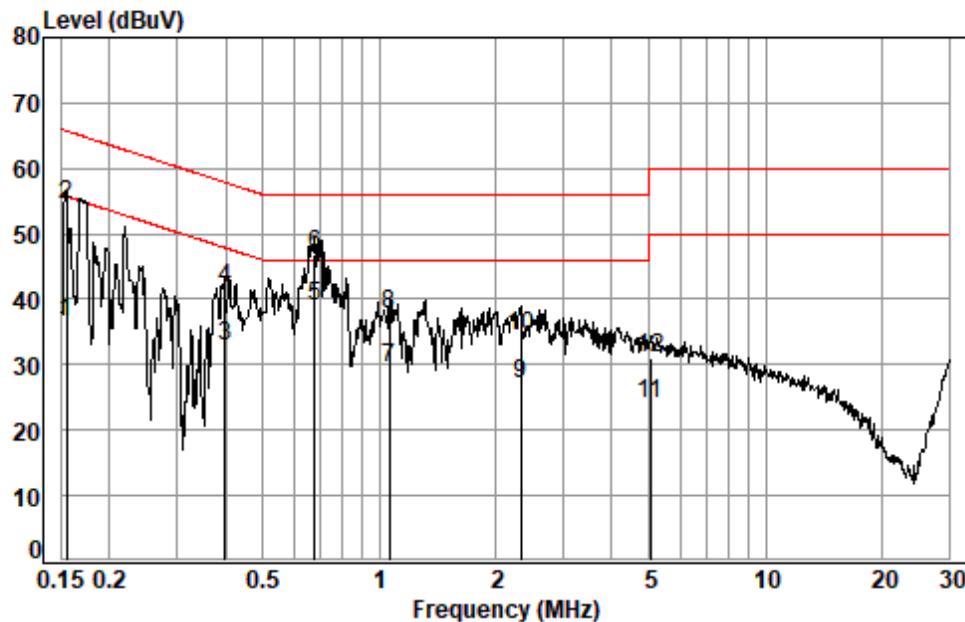
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Mode:b; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05014CR
Test mode: b

Freq	Cable	LISN	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Level	Level	Line	Limit
	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.01	9.67	26.86	36.54	55.74	-19.20 Average
2	0.1548	0.01	9.67	44.91	54.59	65.74	-11.15 QP
3	0.3976	0.05	9.67	23.08	32.80	47.90	-15.10 Average
4	0.3976	0.05	9.67	31.93	41.65	57.90	-16.25 QP
5	0.6790	0.07	9.68	29.34	39.09	46.00	-6.91 Average
6	0.6790	0.07	9.68	37.15	46.90	56.00	-9.10 QP
7	1.0653	0.10	9.69	19.60	29.39	46.00	-16.61 Average
8	1.0653	0.10	9.69	28.05	37.84	56.00	-18.16 QP
9	2.3213	0.16	9.74	17.03	26.93	46.00	-19.07 Average
10	2.3213	0.16	9.74	24.42	34.32	56.00	-21.68 QP
11	5.0312	0.17	9.84	14.17	24.18	50.00	-25.82 Average
12	5.0312	0.17	9.84	21.08	31.09	60.00	-28.91 QP

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7.2 Minimum 6dB Bandwidth

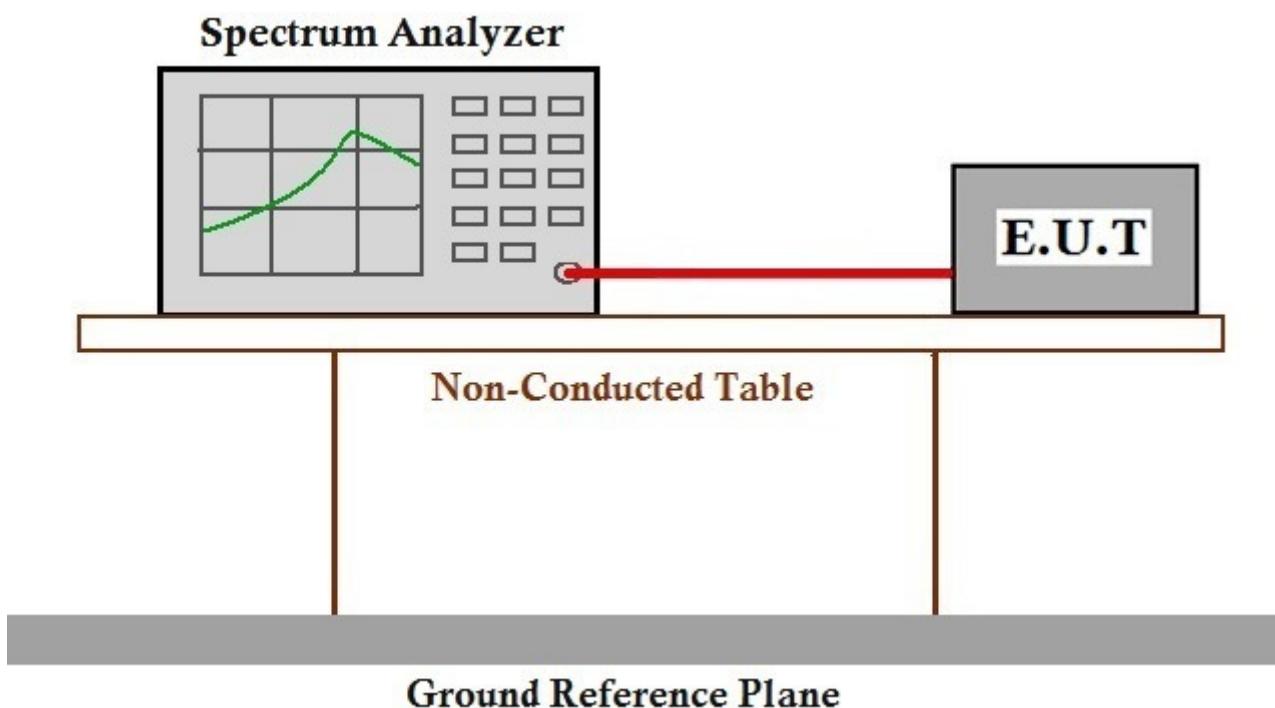
Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1
Limit: ≥ 500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 27.3 °C Humidity: 56.5 % RH Atmospheric Pressure: 1005 mbar
Test mode b: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); Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.3 Conducted Peak Output Power

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

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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 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

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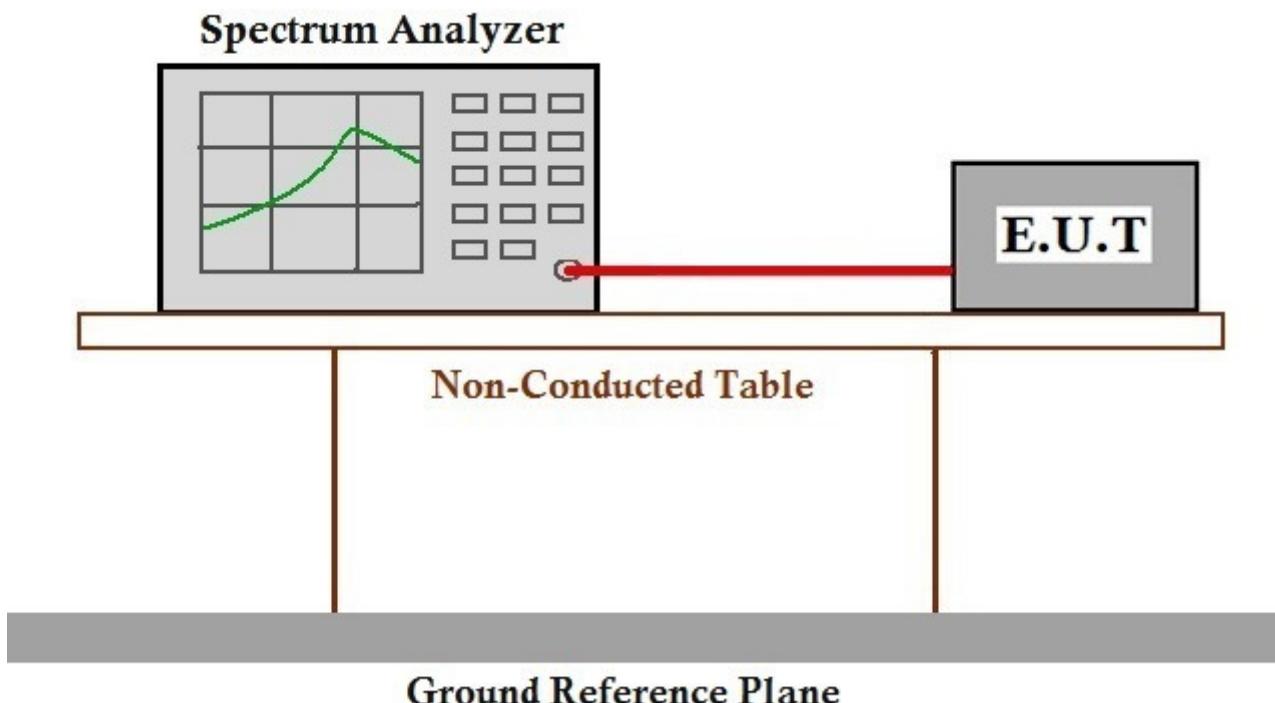
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7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 27.3 °C Humidity: 56.5 % RH Atmospheric Pressure: 1005 mbar
Test mode b: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); Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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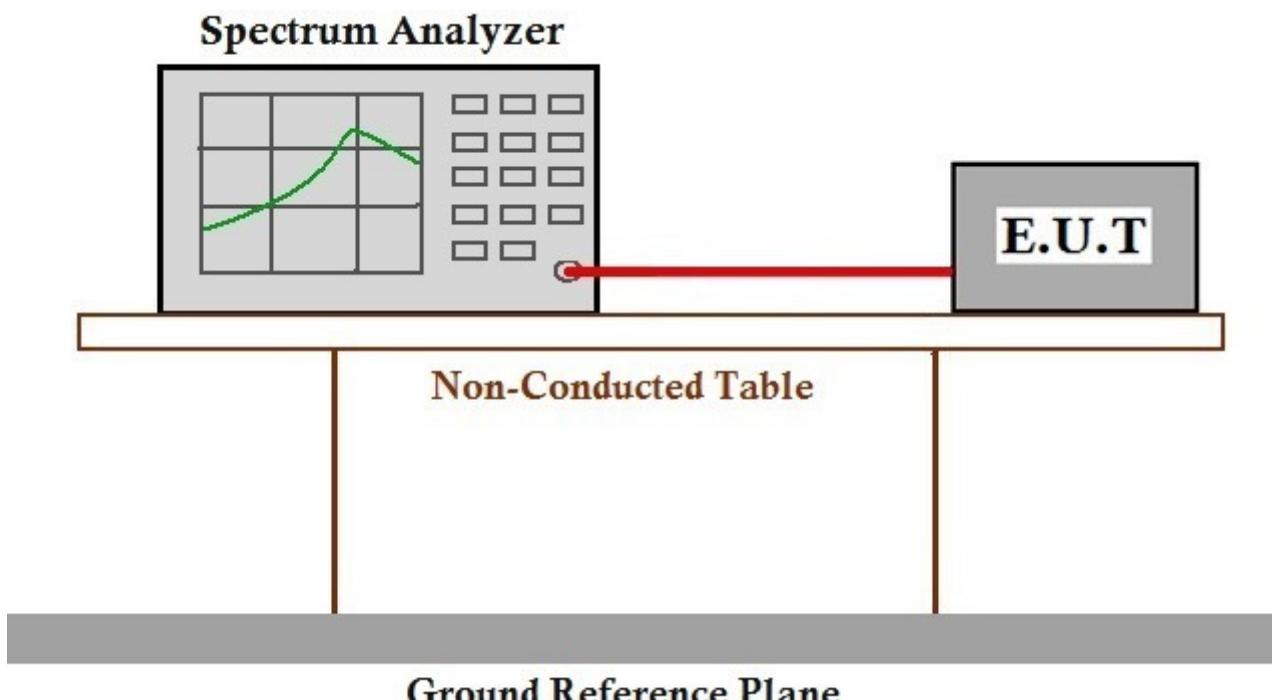
7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2
Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 27.3 °C Humidity: 56.5 % RH Atmospheric Pressure: 1005 mbar
Test mode b: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); Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.5 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))

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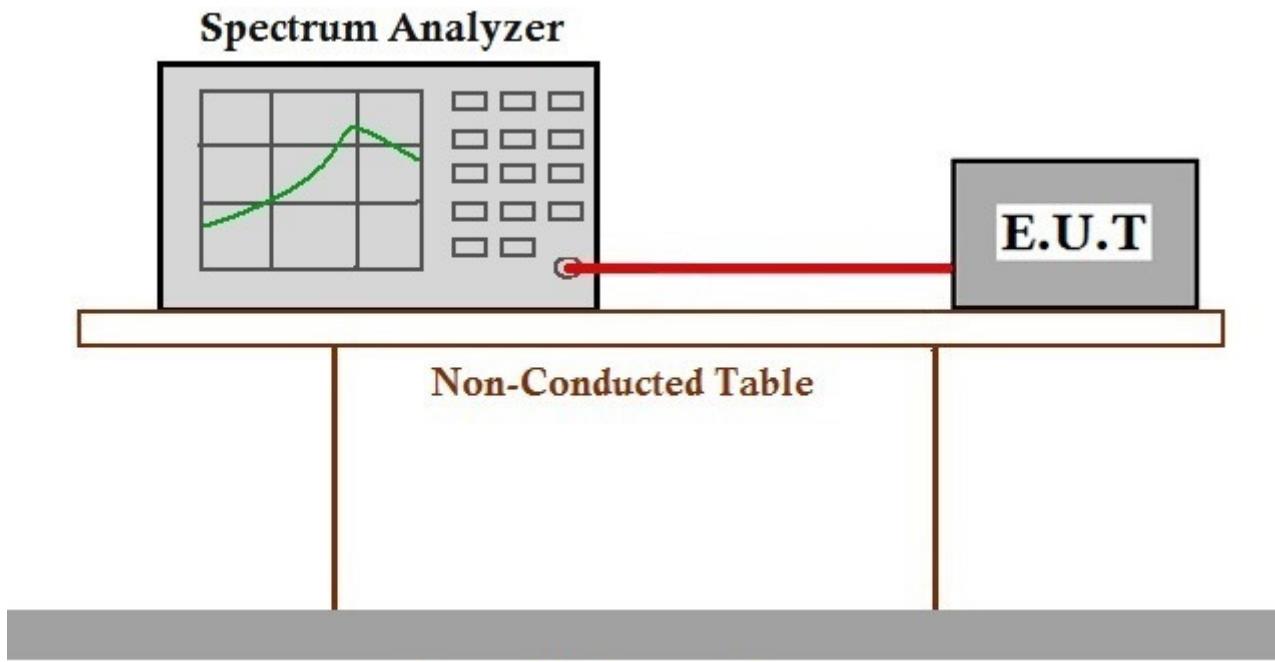
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7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 27.3 °C Humidity: 56.5 % RH Atmospheric Pressure: 1005 mbar

Test mode b: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); Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram**7.5.3 Measurement Procedure and Data**

The detailed test data see: Appendix 15.247

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7.6 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))

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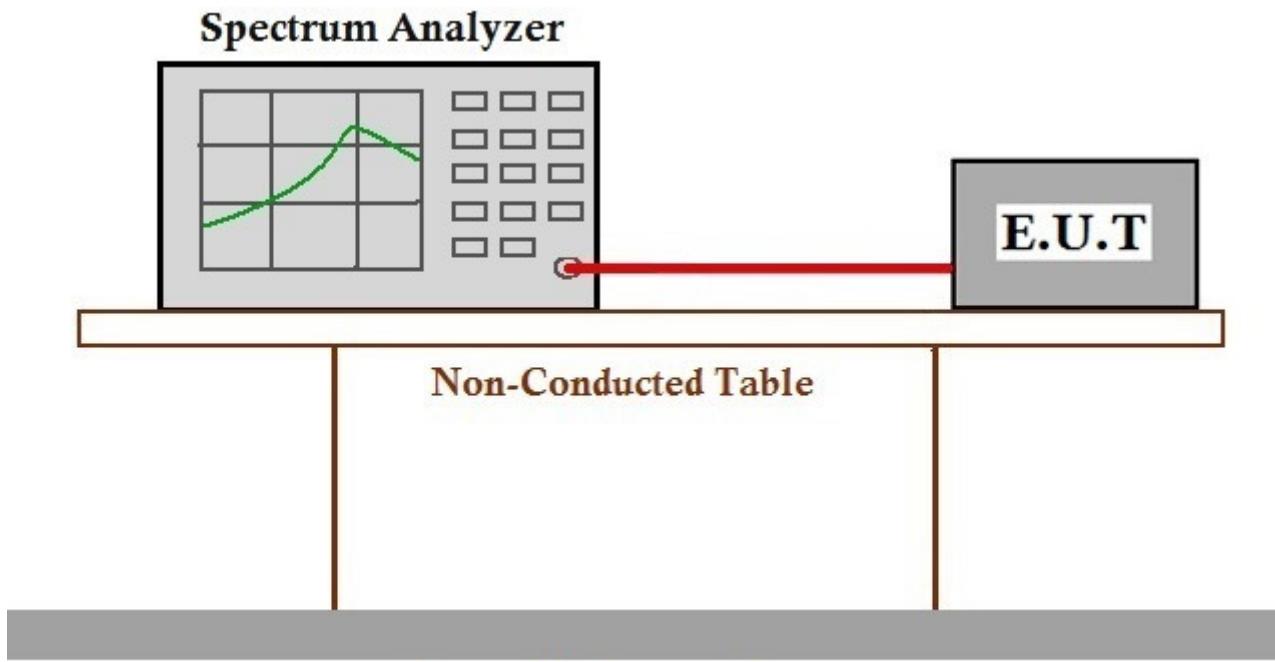
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7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 27.3 °C Humidity: 56.5 % RH Atmospheric Pressure: 1005 mbar

Test mode b: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); Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram**7.6.3 Measurement Procedure and Data**

The detailed test data see: Appendix 15.247

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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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.

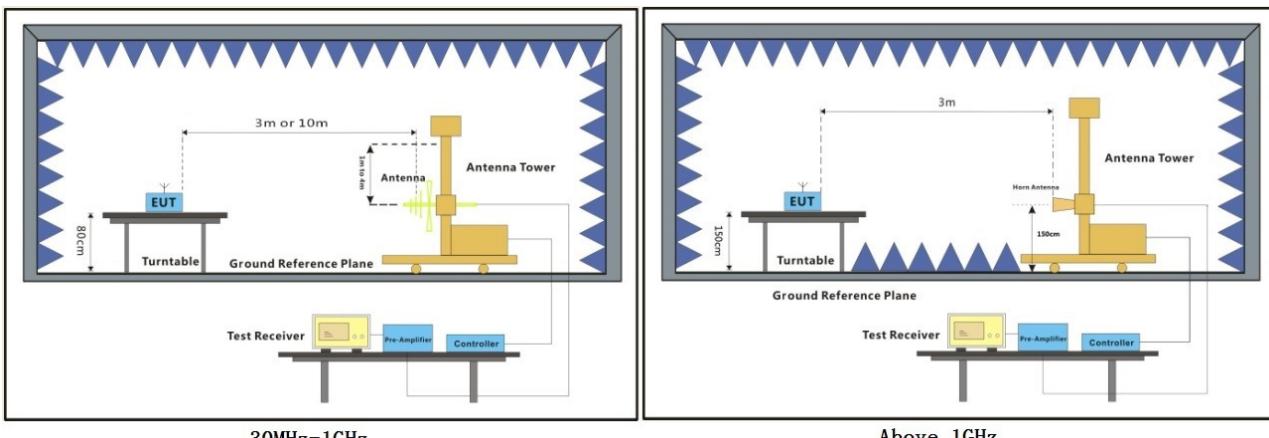
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 60.7 % RH Atmospheric Pressure: 1005 mbar

Test mode b: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); Only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram



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7.7.3 Measurement Procedure and Data

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

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

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



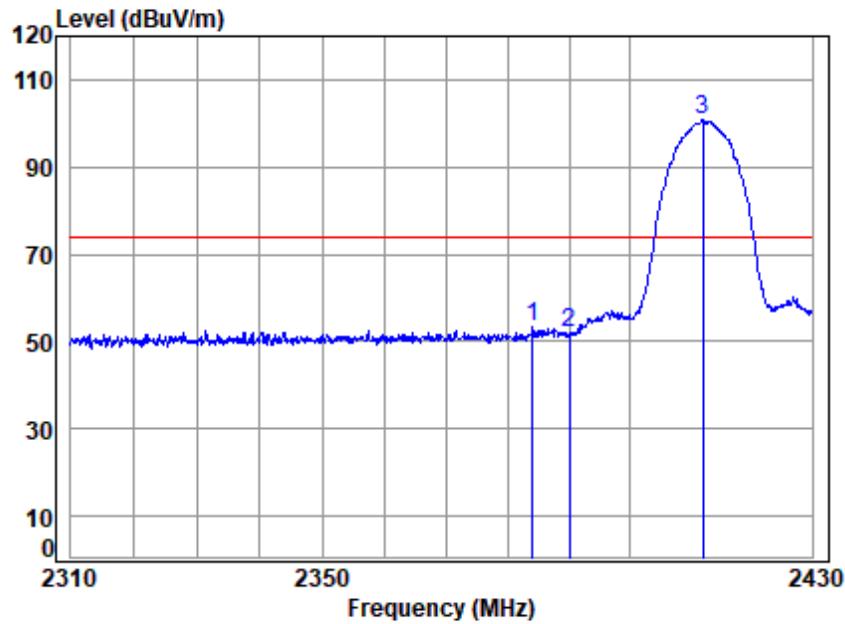
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Mode:b; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



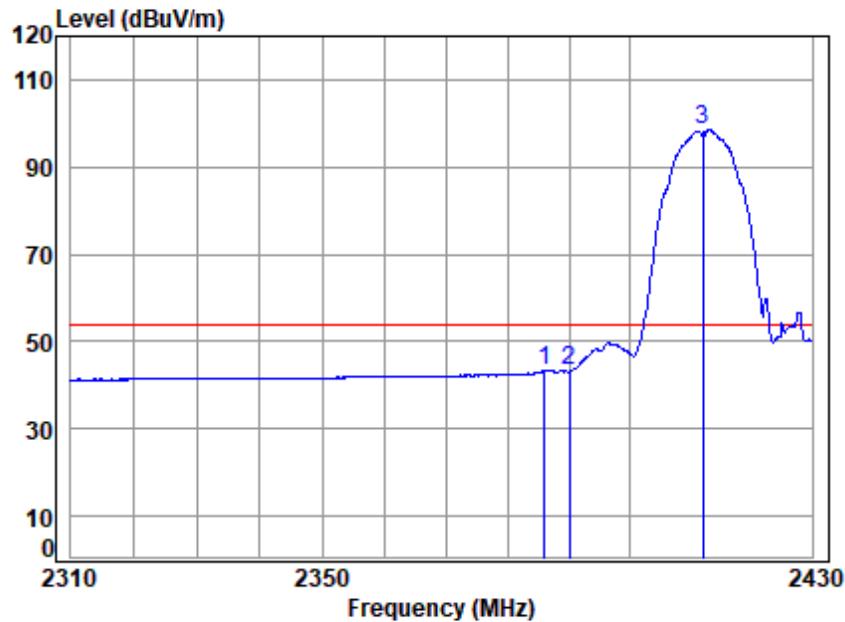
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2384.045	4.33	28.51	40.97	61.59	53.46	74.00	-20.54 peak
2	2390.000	4.34	28.52	40.97	59.95	51.84	74.00	-22.16 peak
3 *	2412.000	4.38	28.56	40.98	108.80	100.76	74.00	26.76 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2385.978	4.34	28.51	40.97	51.47	43.35	54.00	-10.65
2	2390.000	4.34	28.52	40.97	51.25	43.14	54.00	-10.86
3 *	2412.000	4.38	28.56	40.98	106.52	98.48	54.00	44.48

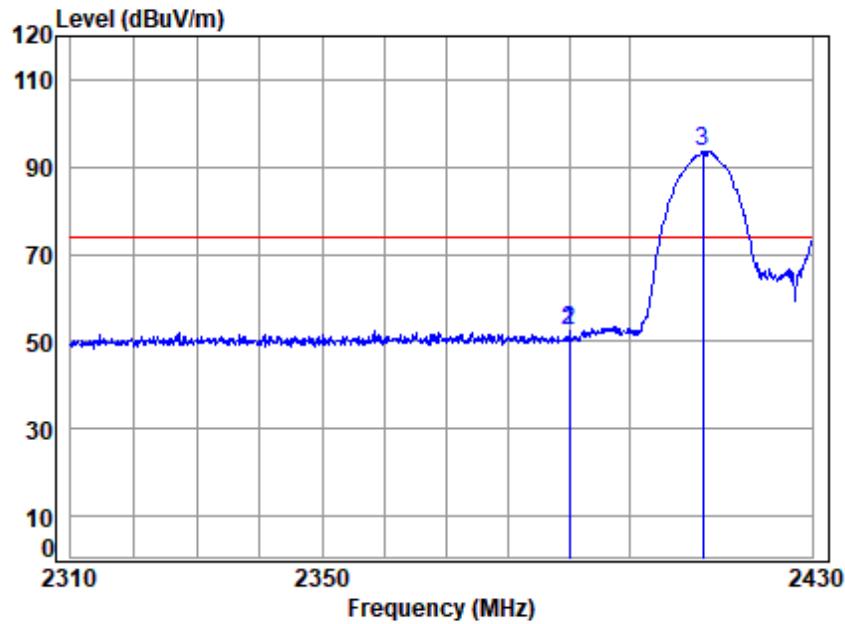
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Mode:b; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



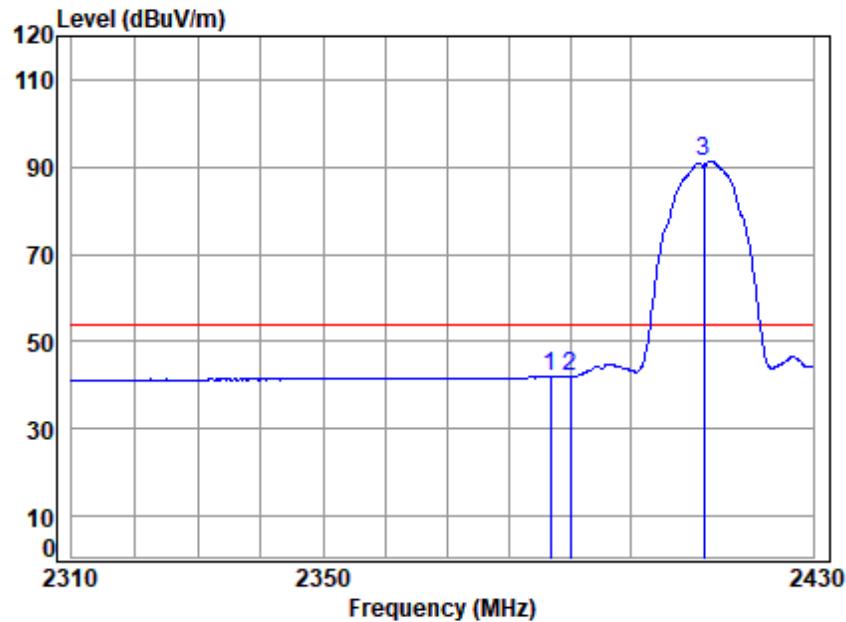
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	4.34	28.52	40.97	60.77	52.66	74.00	-21.34 peak
2	2390.000	4.34	28.52	40.97	60.77	52.66	74.00	-21.34 peak
3 *	2412.000	4.38	28.56	40.98	101.65	93.61	74.00	19.61 peak

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Mode:b; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



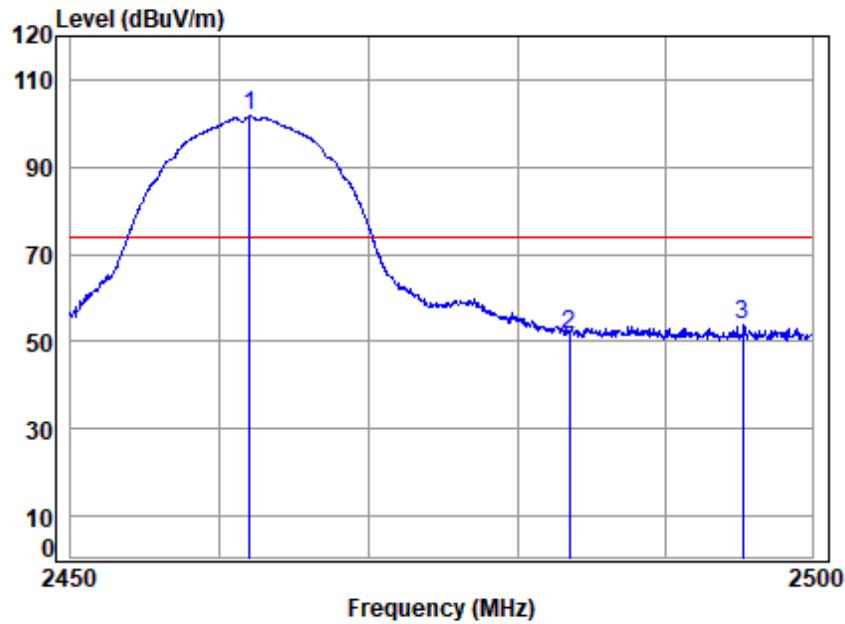
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.823	4.34	28.51	40.97	50.14	42.02	54.00	-11.98 Average
2	2390.000	4.34	28.52	40.97	50.00	41.89	54.00	-12.11 Average
3 *	2412.000	4.38	28.56	40.98	99.48	91.44	54.00	37.44 Average

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Mode:b; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



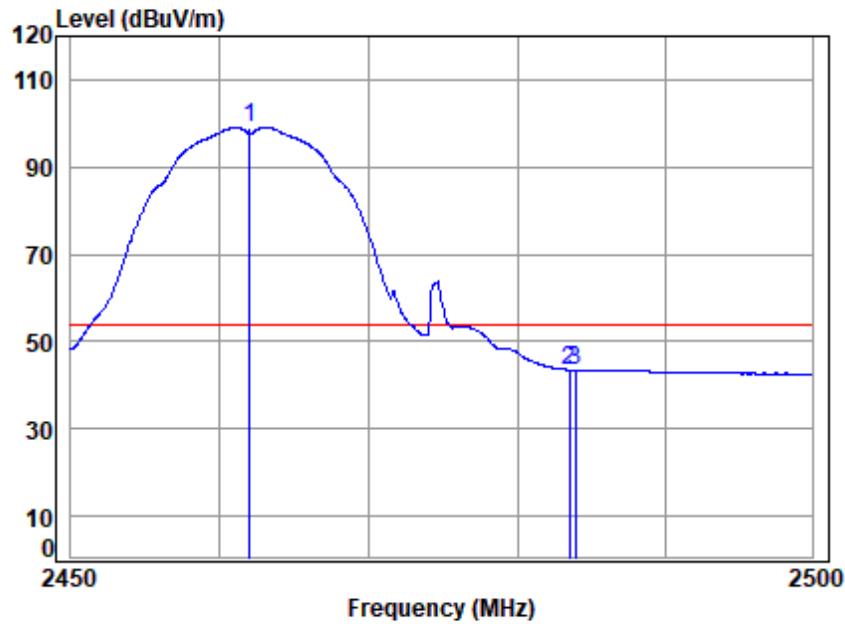
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1 *	2462.000	4.46	28.64	41.00	109.46	101.56	74.00 27.56 peak
2	2483.500	4.49	28.67	41.01	59.62	51.77	74.00 -22.23 peak
3	2495.307	4.51	28.69	41.02	61.70	53.88	74.00 -20.12 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



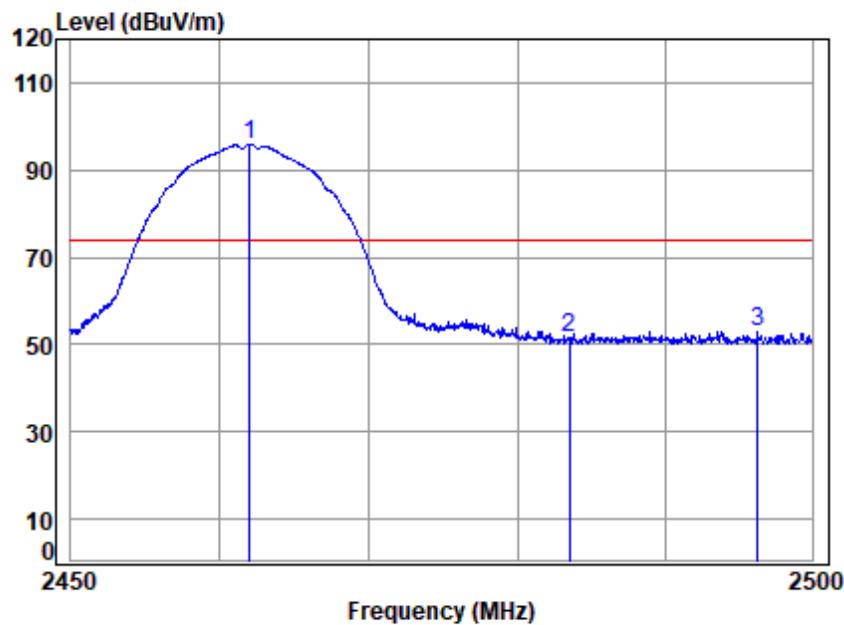
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Factor	Level	Line		
1 *	2462.000	4.46	28.64	41.00	107.08	99.18	54.00	45.18 Average
2	2483.500	4.49	28.67	41.01	51.34	43.49	54.00	-10.51 Average
3	2483.940	4.49	28.67	41.01	51.29	43.44	54.00	-10.56 Average

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Mode:b; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



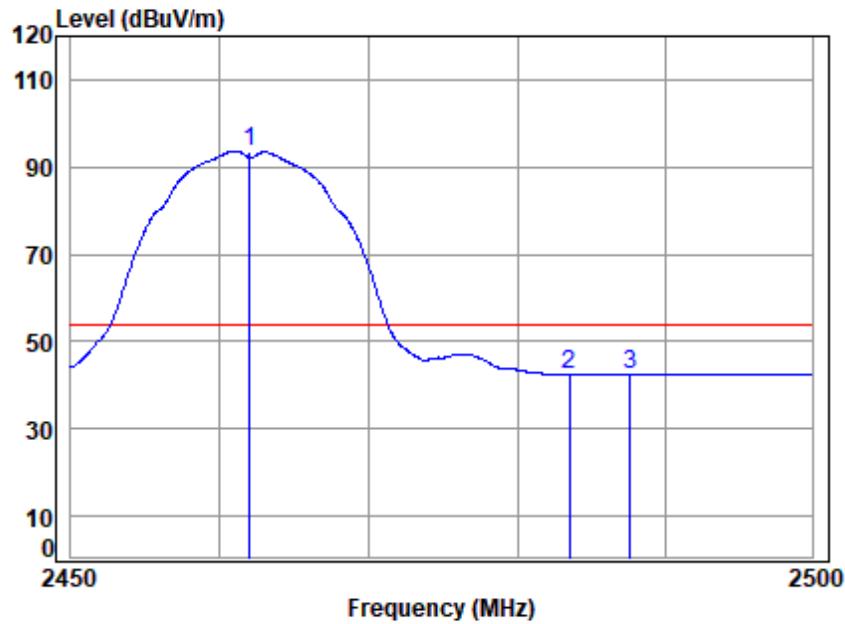
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2462.000	4.46	28.64	41.00	103.87	95.97	74.00	21.97	peak
2 2483.500	4.49	28.67	41.01	59.19	51.34	74.00	-22.66	peak
3 2496.316	4.51	28.69	41.02	60.96	53.14	74.00	-20.86	peak

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Mode:b; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



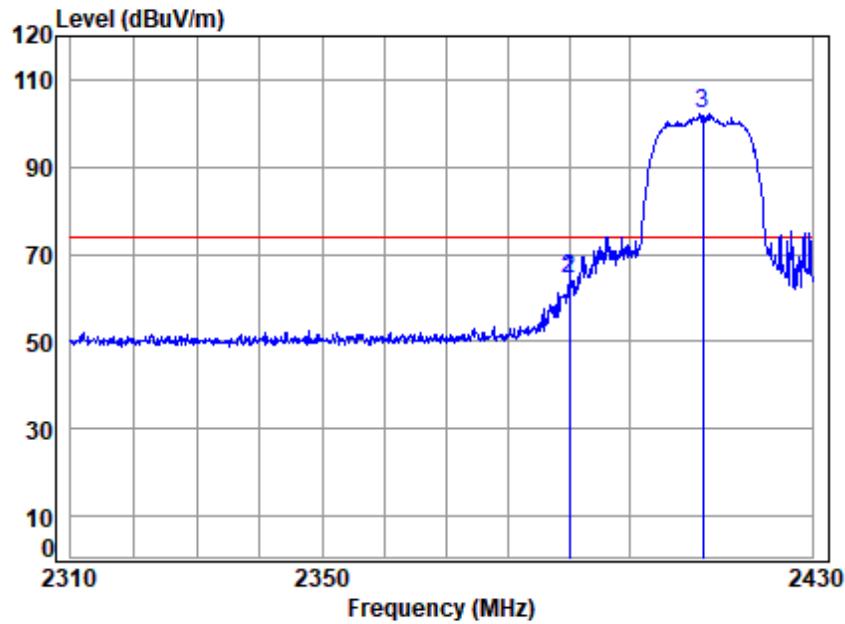
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 * 2462.000	4.46	28.64	41.00	101.58	93.68	54.00	39.68	Average
2 2483.500	4.49	28.67	41.01	50.23	42.38	54.00	-11.62	Average
3 2487.656	4.50	28.68	41.01	50.31	42.48	54.00	-11.52	Average

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Mode:b; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



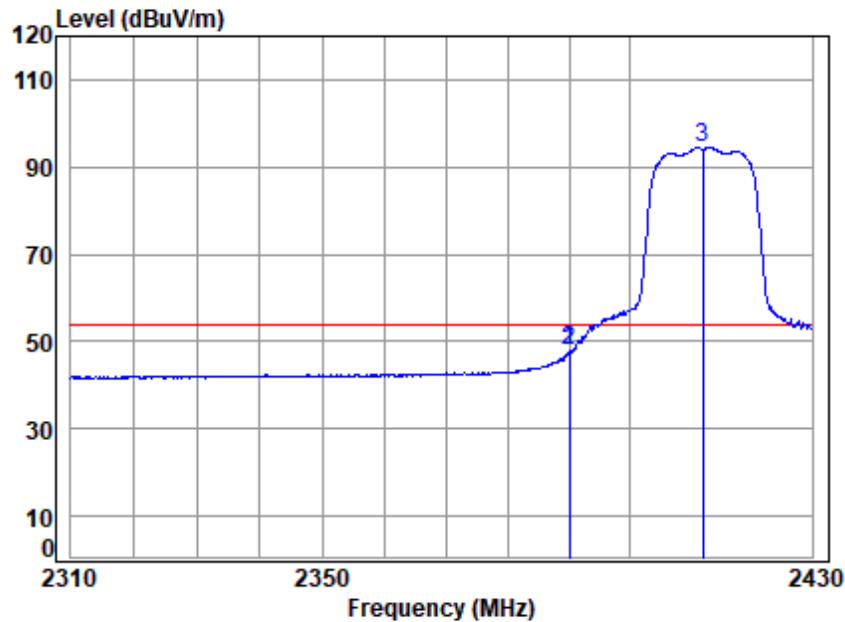
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	4.34	28.52	40.97	72.62	64.51	74.00	-9.49 peak
2	2390.000	4.34	28.52	40.97	72.62	64.51	74.00	-9.49 peak
3 *	2412.000	4.38	28.56	40.98	110.23	102.19	74.00	28.19 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



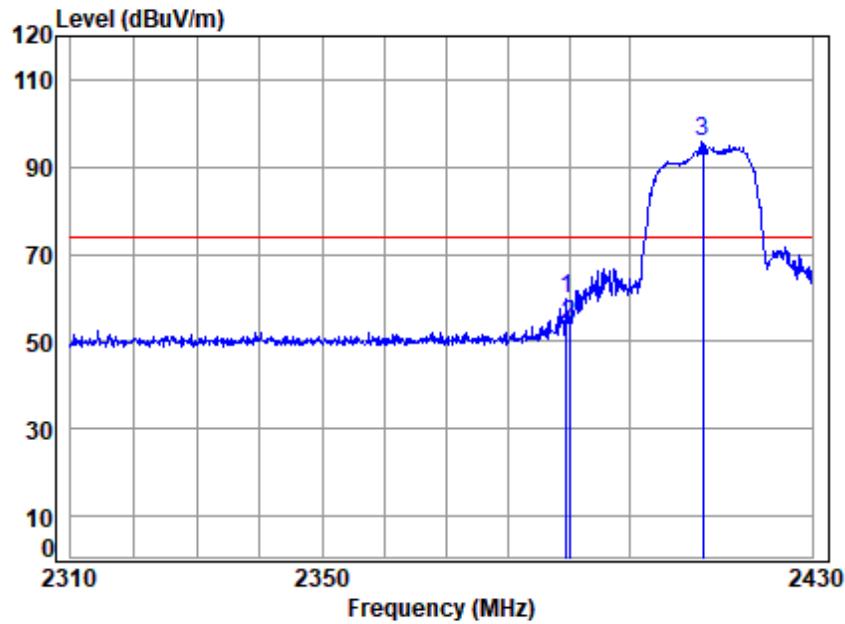
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	4.34	28.52	40.97	55.82	47.71	54.00	-6.29 Average
2	2390.000	4.34	28.52	40.97	55.82	47.71	54.00	-6.29 Average
3 *	2412.000	4.38	28.56	40.98	102.62	94.58	54.00	40.58 Average

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Mode:b; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



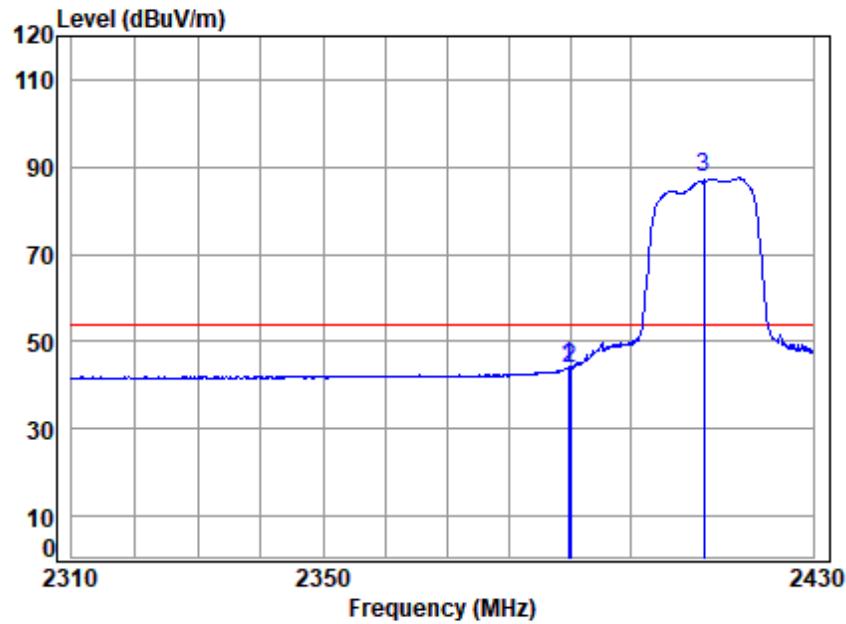
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.484	4.34	28.52	40.97	67.97	59.86	74.00	-14.14 peak
2	2390.000	4.34	28.52	40.97	62.10	53.99	74.00	-20.01 peak
3 *	2412.000	4.38	28.56	40.98	103.87	95.83	74.00	21.83 peak

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Mode:b; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



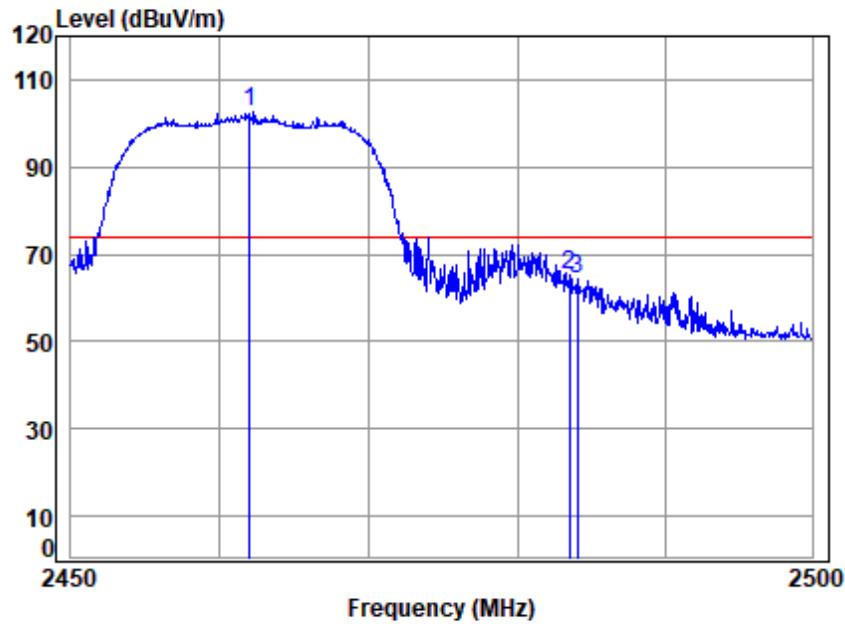
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.726	4.34	28.52	40.97	52.42	44.31	54.00	-9.69 Average
2	2390.000	4.34	28.52	40.97	52.09	43.98	54.00	-10.02 Average
3 *	2412.000	4.38	28.56	40.98	95.51	87.47	54.00	33.47 Average

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Mode:b; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



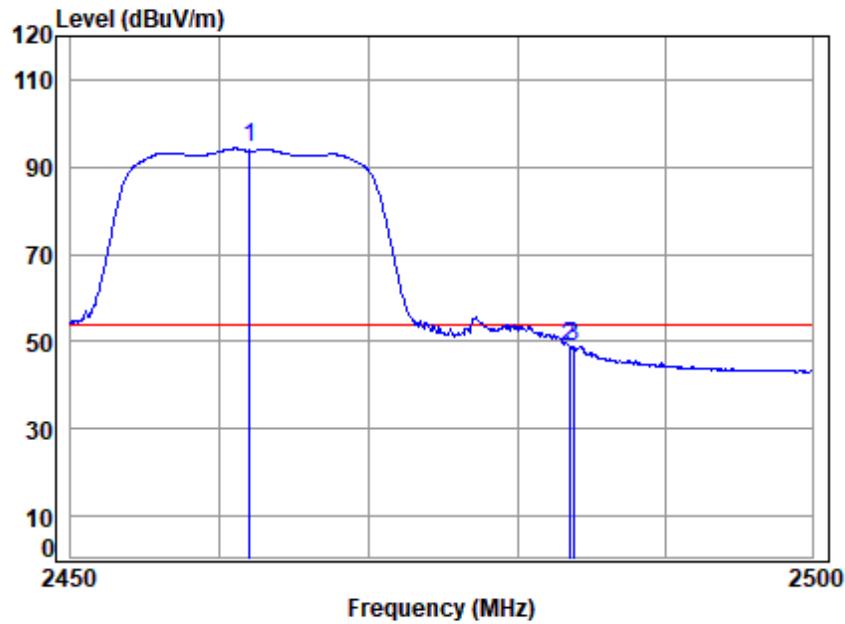
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	41.00	110.78	102.88	74.00	28.88 peak
2	2483.500	4.49	28.67	41.01	73.00	65.15	74.00	-8.85 peak
3	2484.091	4.50	28.67	41.01	72.25	64.41	74.00	-9.59 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



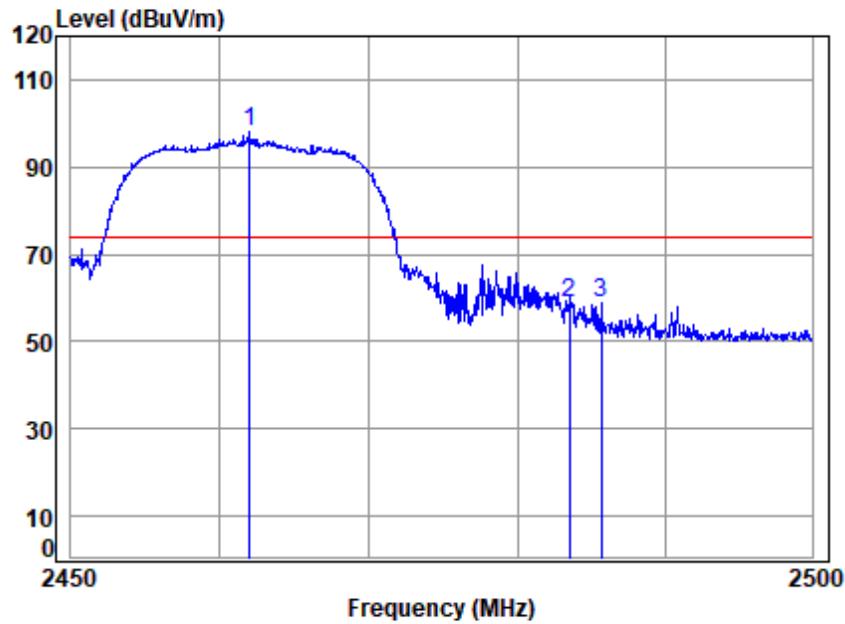
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Level				
1 *	2462.000	4.46	28.64	41.00	102.17	94.27	54.00	40.27 Average
2	2483.500	4.49	28.67	41.01	56.67	48.82	54.00	-5.18 Average
3	2483.790	4.49	28.67	41.01	56.66	48.81	54.00	-5.19 Average

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Mode:b; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



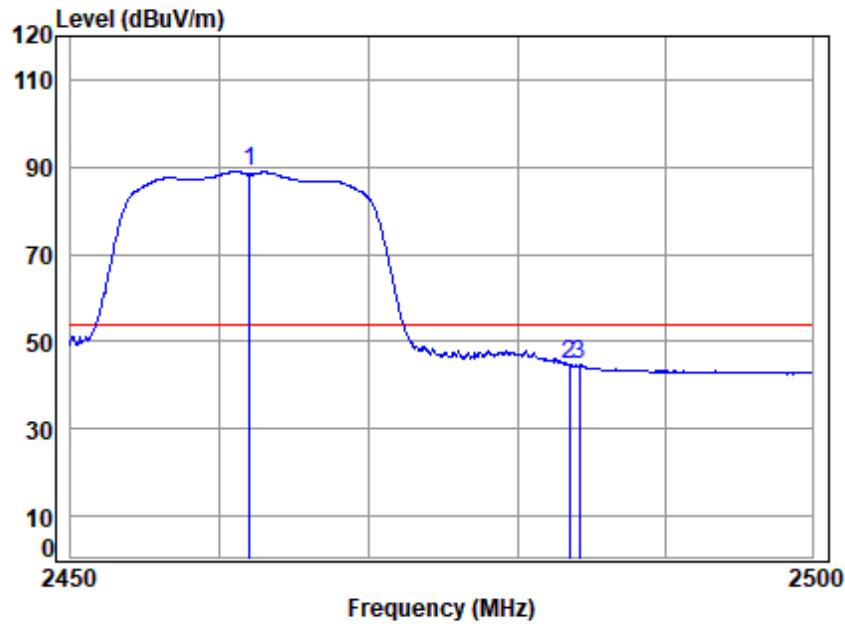
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	41.00	106.03	98.13	74.00	24.13 peak
2	2483.500	4.49	28.67	41.01	66.57	58.72	74.00	-15.28 peak
3	2485.697	4.50	28.68	41.01	66.71	58.88	74.00	-15.12 peak

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Mode:b; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

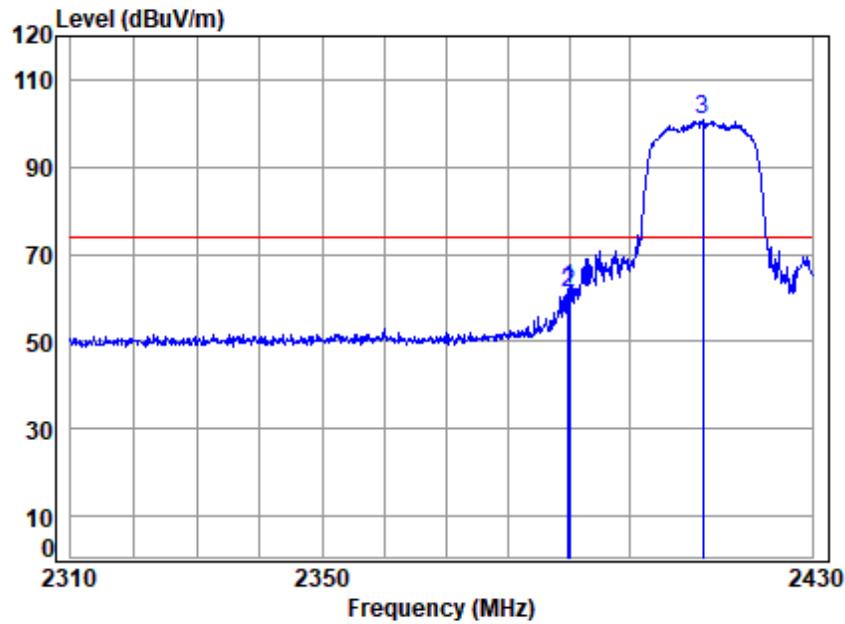
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	41.00	96.90	89.00	54.00	35.00 Average
2	2483.500	4.49	28.67	41.01	52.51	44.66	54.00	-9.34 Average
3	2484.191	4.50	28.67	41.01	52.64	44.80	54.00	-9.20 Average

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



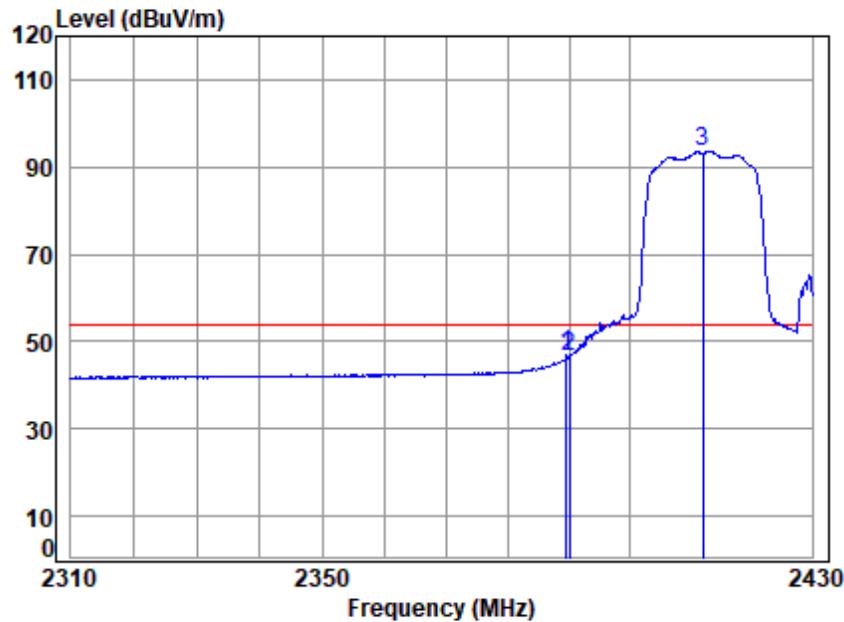
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.847	4.34	28.52	40.97	69.95	61.84	74.00	-12.16 peak
2	2390.000	4.34	28.52	40.97	69.46	61.35	74.00	-12.65 peak
3 *	2412.000	4.38	28.56	40.98	108.89	100.85	74.00	26.85 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

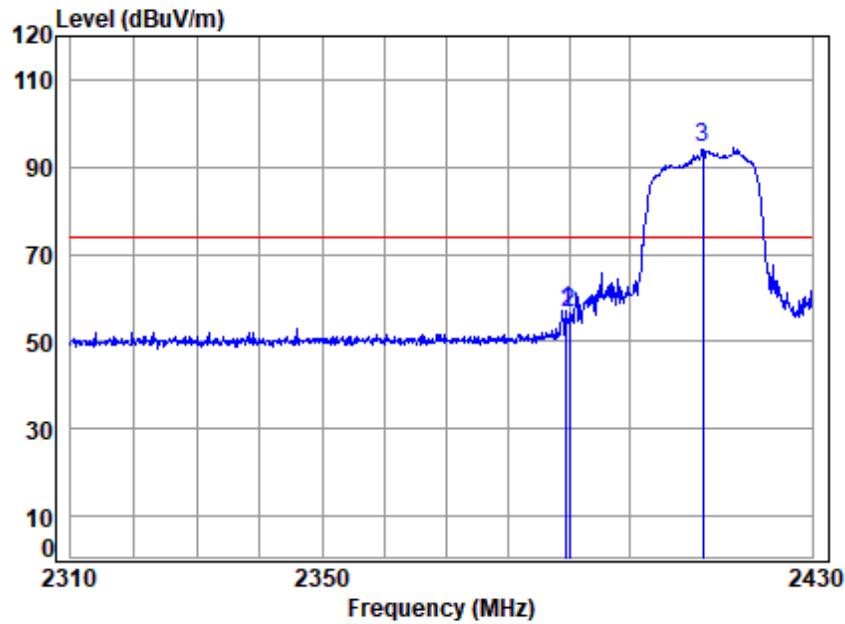
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	
1	2389.605	4.34	28.52	40.97	55.21	47.10	54.00	-6.90 Average
2	2390.000	4.34	28.52	40.97	54.81	46.70	54.00	-7.30 Average
3 *	2412.000	4.38	28.56	40.98	101.65	93.61	54.00	39.61 Average

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



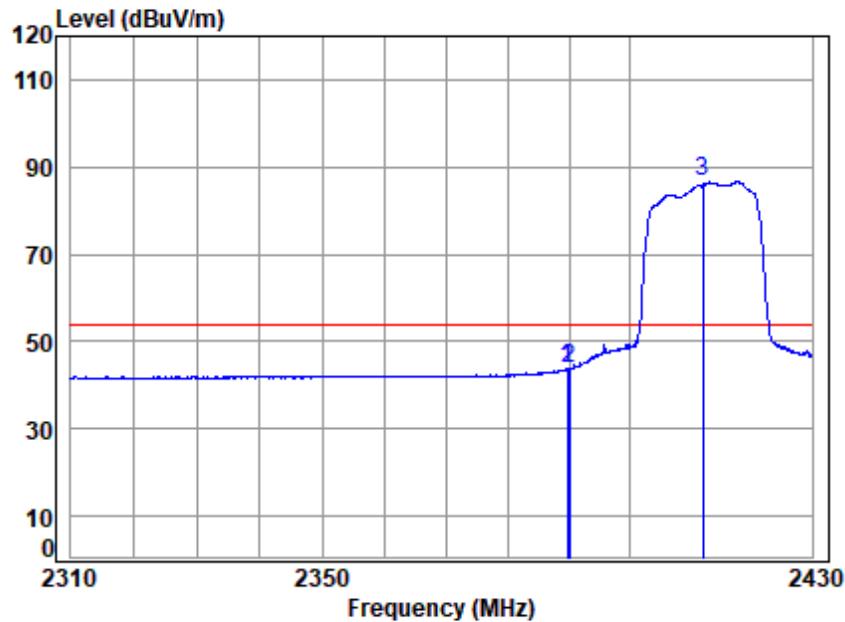
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.484	4.34	28.52	40.97	65.34	57.23	74.00	-16.77 peak
2	2390.000	4.34	28.52	40.97	64.54	56.43	74.00	-17.57 peak
3 *	2412.000	4.38	28.56	40.98	102.30	94.26	74.00	20.26 peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

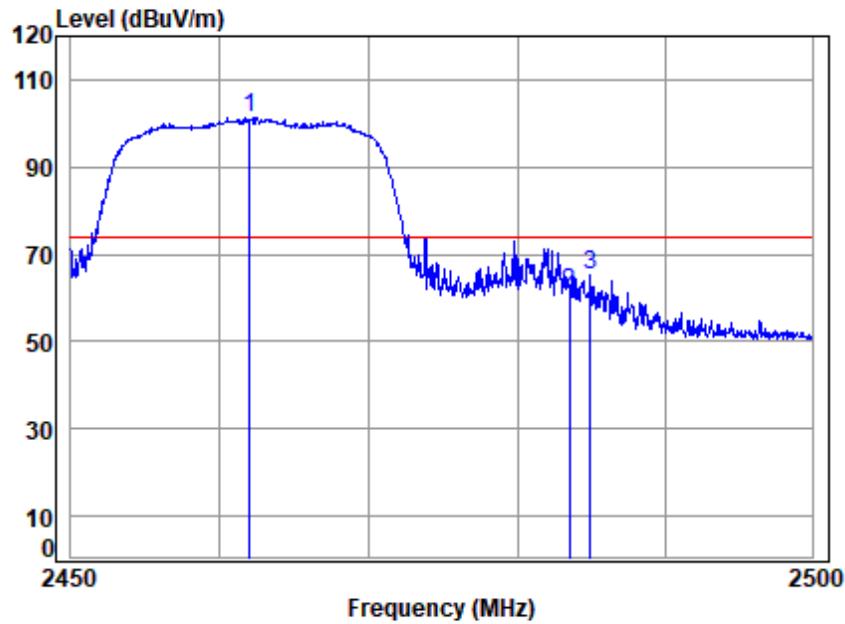
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	4.34	28.52	40.97	51.76	43.65	54.00	-10.35	Average
2	2390.000	4.34	28.52	40.97	51.74	43.63	54.00	-10.37	Average
3 *	2412.000	4.38	28.56	40.98	94.65	86.61	54.00	32.61	Average

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



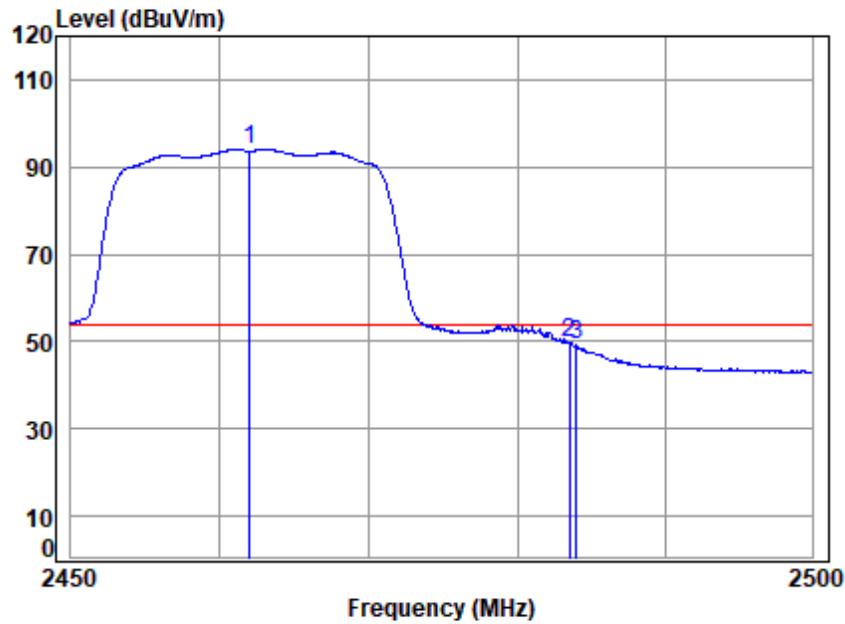
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1 *	2462.000	4.46	28.64	41.00	109.09	101.19	74.00 27.19 peak
2	2483.500	4.49	28.67	41.01	69.06	61.21	74.00 -12.79 peak
3	2484.944	4.50	28.68	41.01	73.23	65.40	74.00 -8.60 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

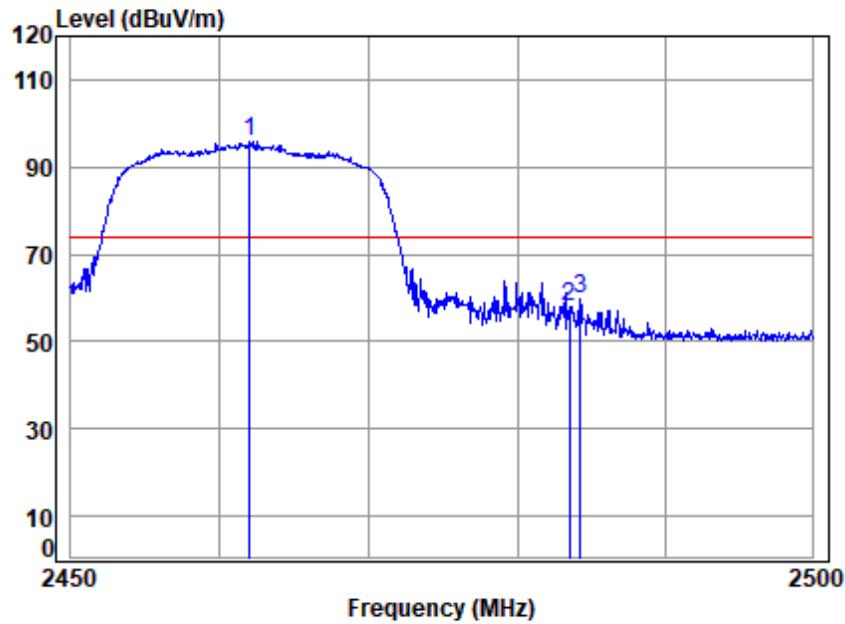
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	41.00	102.12	94.22	54.00	40.22 Average
2	2483.500	4.49	28.67	41.01	57.38	49.53	54.00	-4.47 Average
3	2483.990	4.49	28.67	41.01	56.93	49.08	54.00	-4.92 Average

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



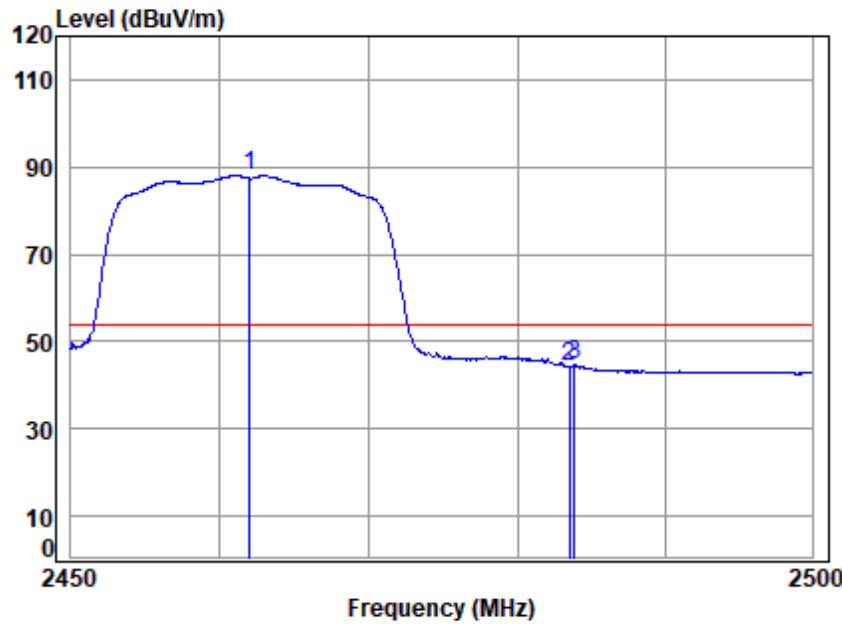
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	41.00	103.80	95.90	74.00	21.90 peak
2	2483.500	4.49	28.67	41.01	65.73	57.88	74.00	-16.12 peak
3	2484.241	4.50	28.67	41.01	67.61	59.77	74.00	-14.23 peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 05014CR

Mode : 2462 Band edge

Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 * 2462.000	4.46	28.64	41.00	95.98	88.08	54.00	34.08 Average
2 2483.500	4.49	28.67	41.01	52.16	44.31	54.00	-9.69 Average
3 2483.890	4.49	28.67	41.01	52.68	44.83	54.00	-9.17 Average

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7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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.



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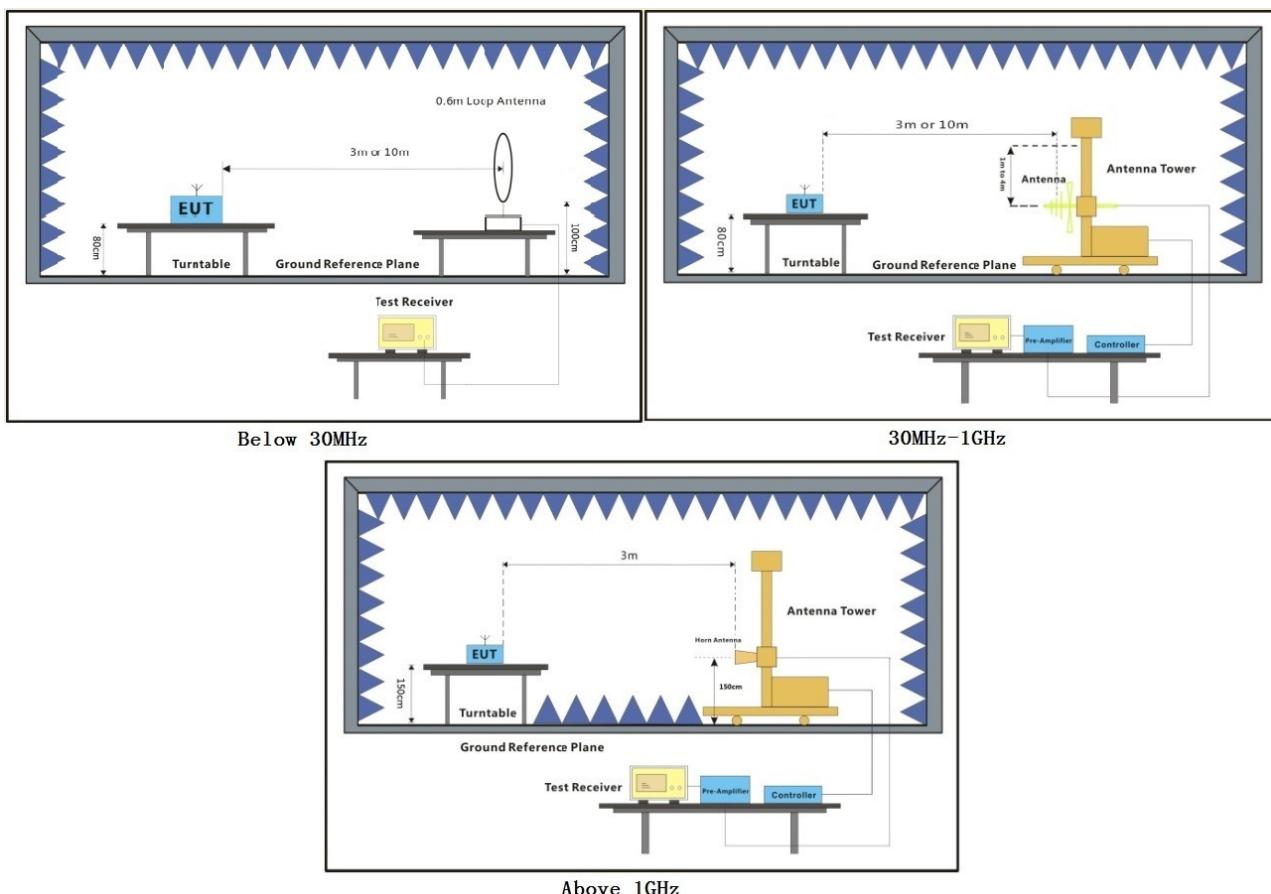
7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 60.7 % RH Atmospheric Pressure: 1005 mbar

Test mode b: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); Only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram



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7.8.3 Measurement Procedure and Data

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

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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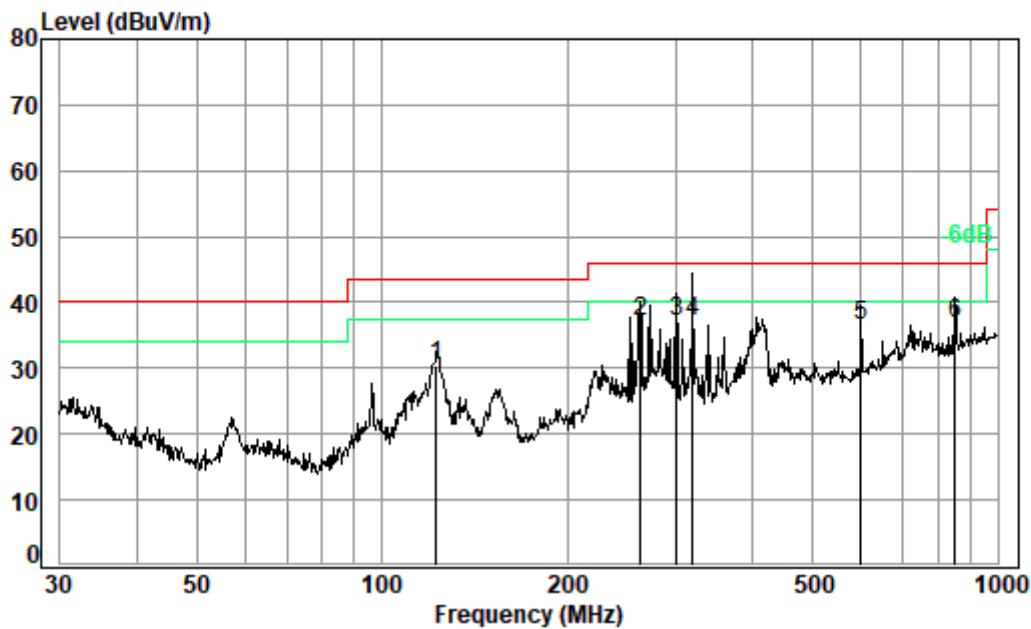
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Radiated Emission below 1GHz

Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 05014CR

Test Mode: b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	122.40	1.13	12.88	27.47	43.94	30.48	43.50 -13.02 QP
2	262.90	1.74	18.25	26.96	44.06	37.09	46.00 -8.91 QP
3 pp	300.37	2.00	19.11	26.87	43.01	37.25	46.00 -8.75 QP
4	319.94	2.07	19.80	26.99	42.31	37.19	46.00 -8.81 QP
5	599.32	2.70	25.79	28.13	36.04	36.40	46.00 -9.60 QP
6	851.04	3.41	28.09	27.43	32.83	36.90	46.00 -9.10 QP

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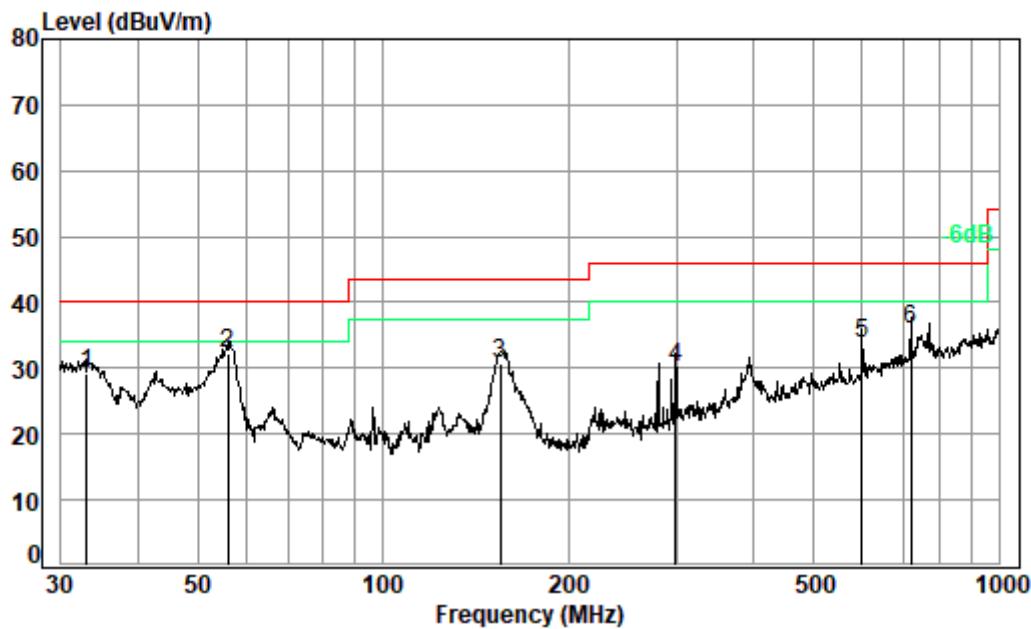
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Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Mode:b; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 05014CR

Test Mode: b

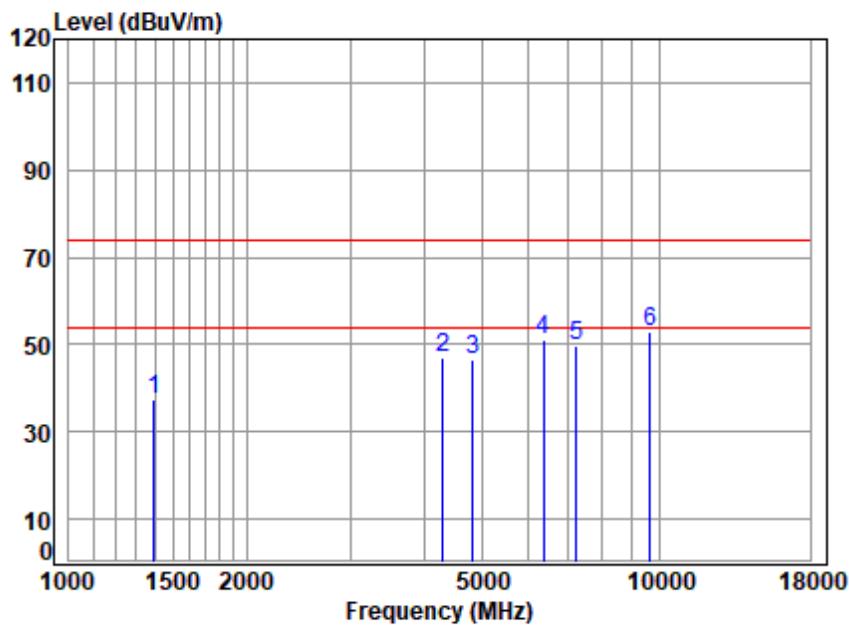
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	32.98	0.63	21.20	27.73	35.14	29.24	40.00 -10.76 QP
2 pp	56.00	0.76	12.90	27.67	46.23	32.22	40.00 -7.78 QP
3	155.36	1.16	15.08	27.31	41.72	30.65	43.50 -12.85 QP
4	298.27	1.99	18.96	26.87	36.11	30.19	46.00 -15.81 QP
5	599.32	2.70	25.79	28.13	33.49	33.85	46.00 -12.15 QP
6	719.20	2.98	27.48	27.88	33.17	35.75	46.00 -10.25 QP

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Above 1GHz

Mode:b; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



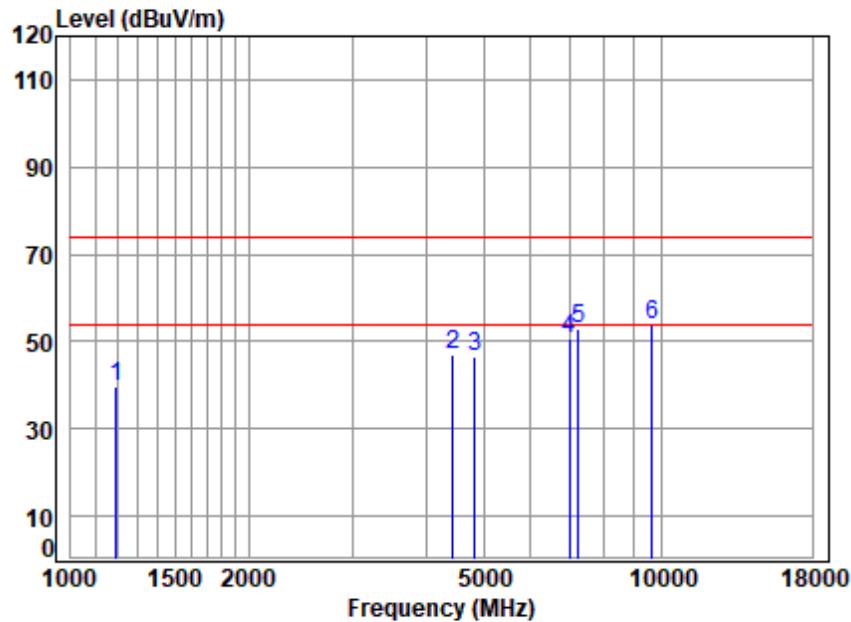
Site : chamber
Condition: 3m Horizontal
Job No : 05014CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
1	1394.300	3.10	25.40	40.43	49.26	37.33	74.00	-36.67 peak
2	4304.400	6.58	33.26	42.40	49.76	47.20	74.00	-26.80 peak
3	4824.000	7.12	34.00	42.78	48.04	46.38	74.00	-27.62 peak
4	6358.789	8.27	35.46	42.03	49.45	51.15	74.00	-22.85 peak
5	7236.000	8.77	36.09	41.56	46.53	49.83	74.00	-24.17 peak
6	9648.000	10.79	37.69	38.51	42.82	52.79	74.00	-21.21 peak

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Mode:b; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



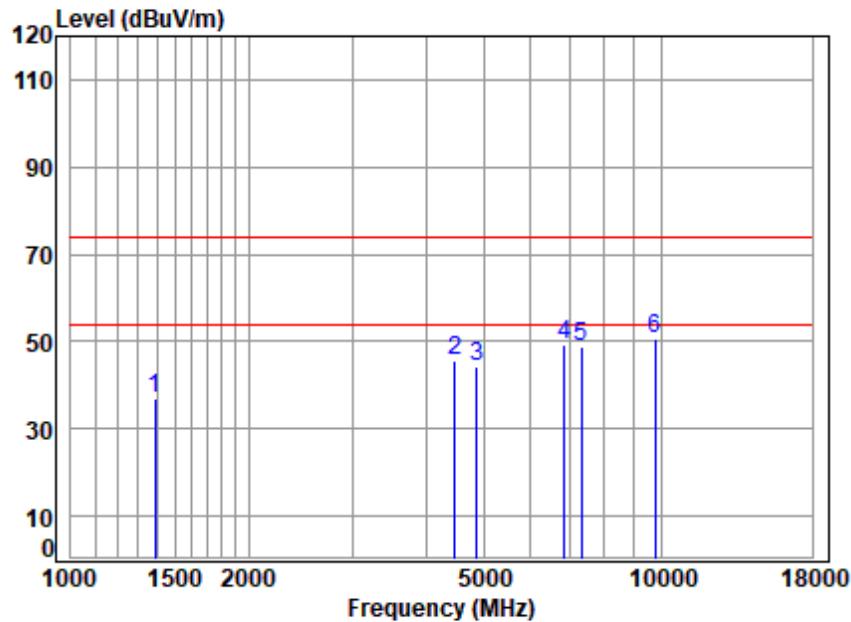
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1192.811	2.75	24.56	40.28	52.59	39.62	74.00 -34.38 peak
2	4443.453	6.71	33.50	42.51	49.13	46.83	74.00 -27.17 peak
3	4824.000	7.12	34.00	42.78	48.02	46.36	74.00 -27.64 peak
4	6995.172	8.54	35.90	41.69	47.89	50.64	74.00 -23.36 peak
5	7236.000	8.77	36.09	41.56	49.68	52.98	74.00 -21.02 peak
6	9648.000	10.79	37.69	38.51	43.77	53.74	74.00 -20.26 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

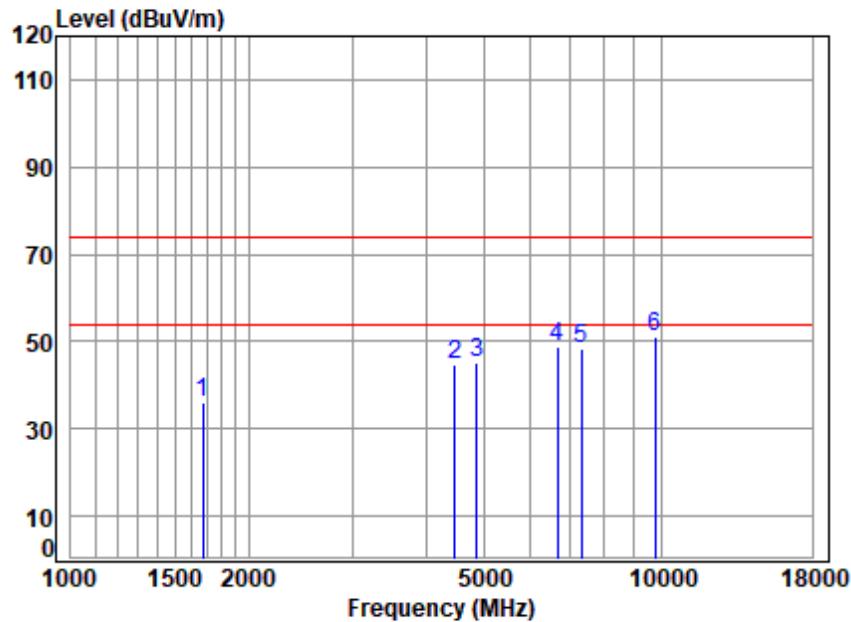
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1390.276	3.09	25.39	40.43	48.81	36.86	74.00	-37.14 peak
2	4469.214	6.73	33.55	42.53	47.88	45.63	74.00	-28.37 peak
3	4874.000	7.17	34.05	42.82	46.06	44.46	74.00	-29.54 peak
4	6855.063	8.47	35.82	41.76	46.77	49.30	74.00	-24.70 peak
5	7311.000	8.84	36.15	41.53	45.21	48.67	74.00	-25.33 peak
6	9748.000	10.76	37.75	38.37	40.43	50.57	74.00	-23.43 peak

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Mode:b; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:middle



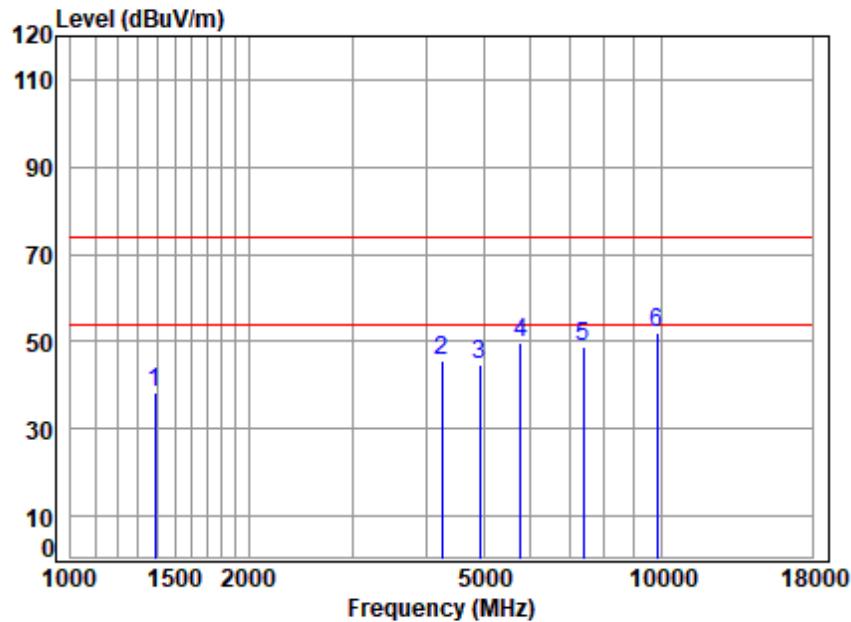
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1672.779	3.41	26.56	40.62	46.70	36.05	74.00 -37.95 peak
2	4469.214	6.73	33.55	42.53	47.14	44.89	74.00 -29.11 peak
3	4874.000	7.17	34.05	42.82	46.95	45.35	74.00 -28.65 peak
4	6679.040	8.38	35.71	41.85	46.74	48.98	74.00 -25.02 peak
5	7311.000	8.84	36.15	41.53	44.93	48.39	74.00 -25.61 peak
6	9748.000	10.76	37.75	38.37	41.09	51.23	74.00 -22.77 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



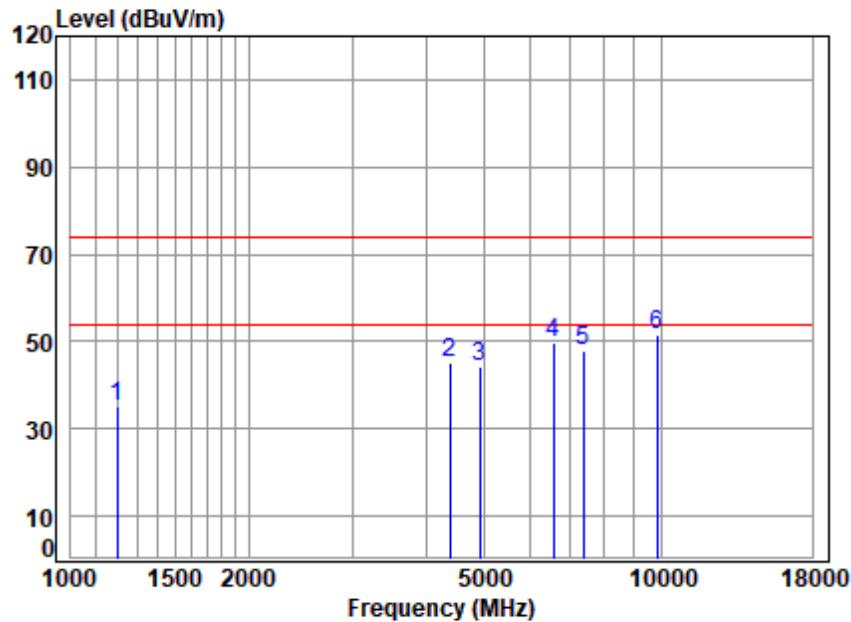
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1390.276	3.09	25.39	40.43	50.12	38.17	74.00 -35.83 peak
2	4242.641	6.52	33.15	42.35	48.43	45.75	74.00 -28.25 peak
3	4924.000	7.22	34.11	42.85	46.06	44.54	74.00 -29.46 peak
4	5780.300	8.23	34.89	42.38	48.78	49.52	74.00 -24.48 peak
5	7386.000	8.91	36.21	41.49	44.99	48.62	74.00 -25.38 peak
6	9848.000	10.73	37.81	38.22	41.68	52.00	74.00 -22.00 peak

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Mode:b; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



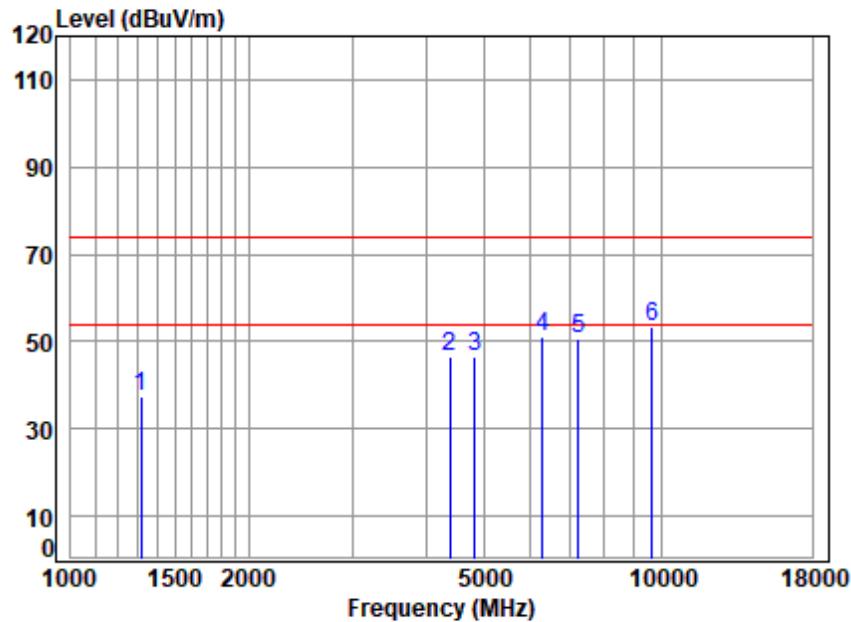
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	1196.264	2.76	24.57	40.28	48.07	35.12	74.00 -38.88 peak
2	4379.699	6.65	33.39	42.46	47.51	45.09	74.00 -28.91 peak
3	4924.000	7.22	34.11	42.85	45.78	44.26	74.00 -29.74 peak
4	6564.209	8.31	35.64	41.92	47.73	49.76	74.00 -24.24 peak
5	7386.000	8.91	36.21	41.49	44.39	48.02	74.00 -25.98 peak
6	9848.000	10.73	37.81	38.22	41.31	51.63	74.00 -22.37 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



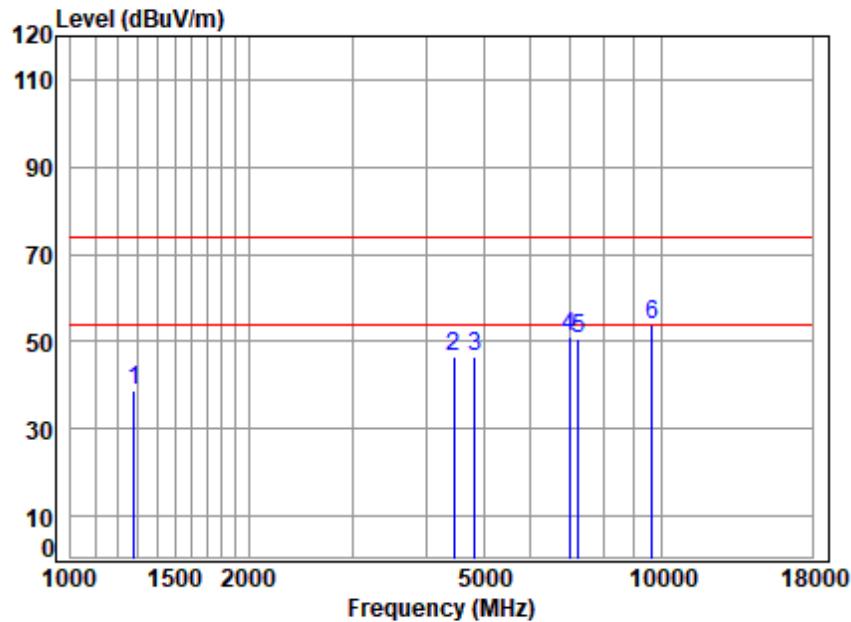
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1315.985	2.97	25.09	40.37	49.57	37.26	74.00 -36.74 peak
2	4392.376	6.66	33.42	42.47	48.74	46.35	74.00 -27.65 peak
3	4824.000	7.12	34.00	42.78	48.02	46.36	74.00 -27.64 peak
4	6303.890	8.27	35.41	42.06	49.36	50.98	74.00 -23.02 peak
5	7236.000	8.77	36.09	41.56	47.32	50.62	74.00 -23.38 peak
6	9648.000	10.79	37.69	38.51	43.44	53.41	74.00 -20.59 peak

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Mode:b; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



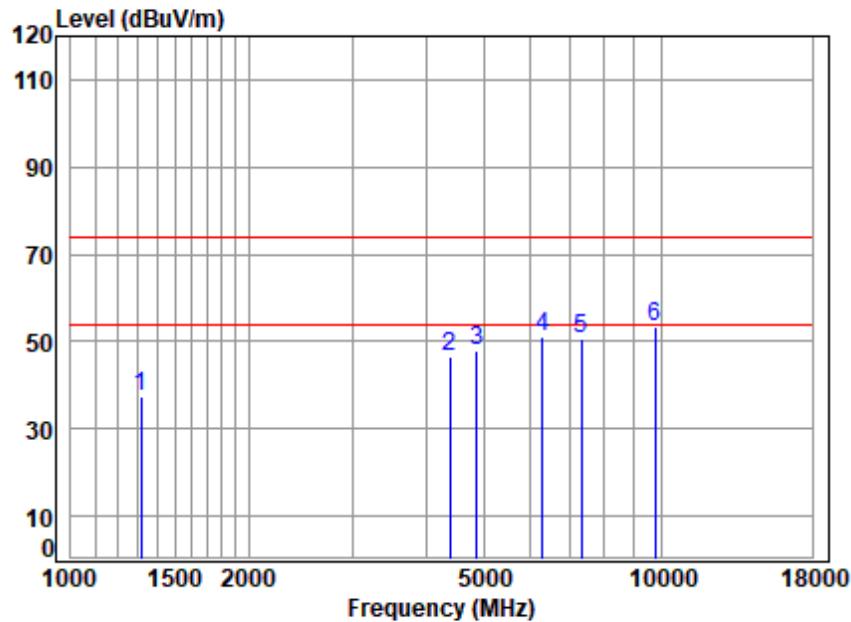
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1278.492	2.91	24.93	40.35	51.09	38.58	74.00 -35.42 peak
2	4456.315	6.72	33.53	42.52	49.00	46.73	74.00 -27.27 peak
3	4824.000	7.12	34.00	42.78	48.36	46.70	74.00 -27.30 peak
4	6974.982	8.53	35.89	41.70	48.59	51.31	74.00 -22.69 peak
5	7236.000	8.77	36.09	41.56	47.37	50.67	74.00 -23.33 peak
6	9648.000	10.79	37.69	38.51	43.72	53.69	74.00 -20.31 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:middle



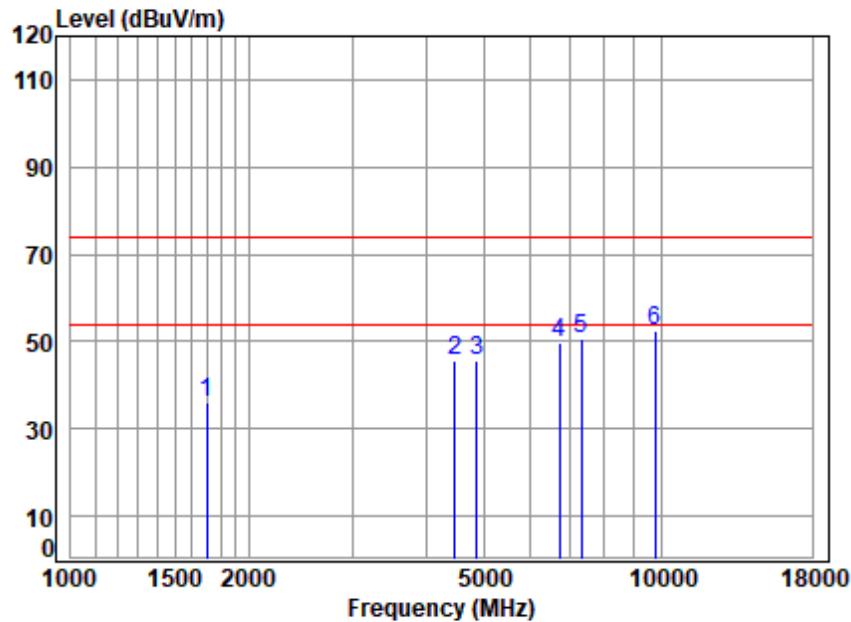
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1315.985	2.97	25.09	40.37	49.57	37.26	74.00	-36.74 peak
2	4392.376	6.66	33.42	42.47	48.74	46.35	74.00	-27.65 peak
3	4874.000	7.17	34.05	42.82	49.44	47.84	74.00	-26.16 peak
4	6303.890	8.27	35.41	42.06	49.36	50.98	74.00	-23.02 peak
5	7311.000	8.84	36.15	41.53	47.23	50.69	74.00	-23.31 peak
6	9748.000	10.76	37.75	38.37	43.13	53.27	74.00	-20.73 peak

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Mode:b; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:middle



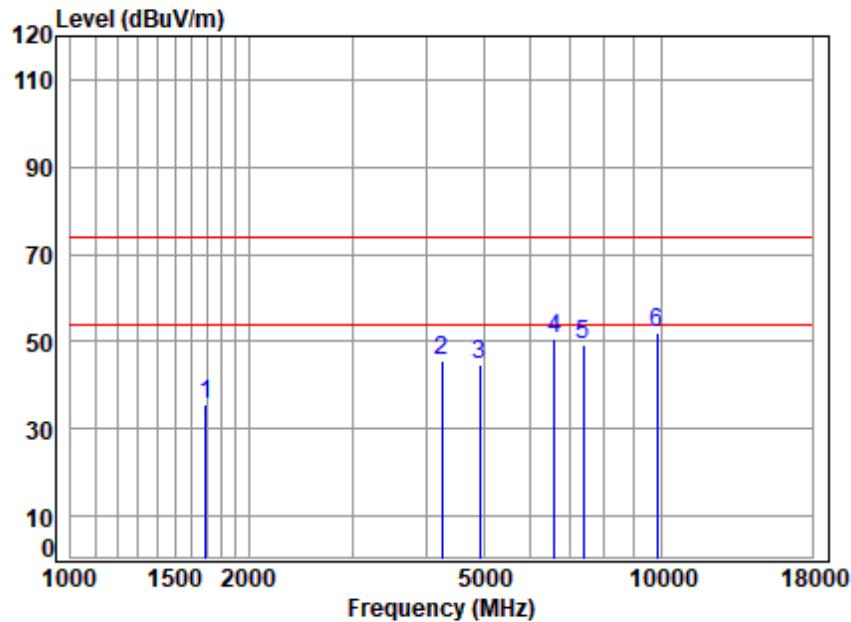
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1697.129	3.43	26.66	40.63	46.51	35.97	74.00 -38.03 peak
2	4469.214	6.73	33.55	42.53	47.96	45.71	74.00 -28.29 peak
3	4874.000	7.17	34.05	42.82	47.04	45.44	74.00 -28.56 peak
4	6717.762	8.40	35.73	41.83	47.55	49.85	74.00 -24.15 peak
5	7311.000	8.84	36.15	41.53	47.01	50.47	74.00 -23.53 peak
6	9748.000	10.76	37.75	38.37	42.11	52.25	74.00 -21.75 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



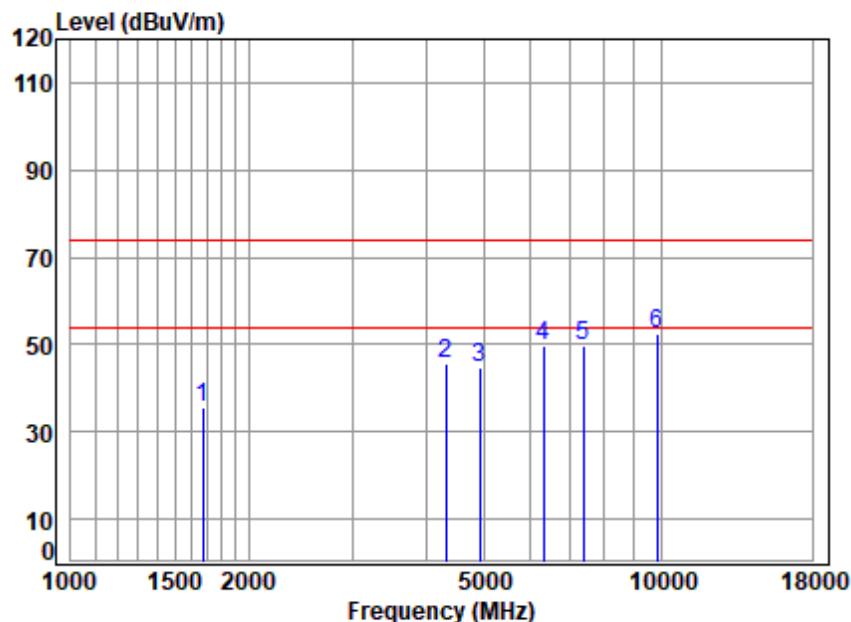
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1692.231	3.42	26.64	40.63	46.16	35.59	74.00	-38.41 peak
2	4242.641	6.52	33.15	42.35	48.23	45.55	74.00	-28.45 peak
3	4924.000	7.22	34.11	42.85	46.31	44.79	74.00	-29.21 peak
4	6583.209	8.32	35.65	41.91	48.74	50.80	74.00	-23.20 peak
5	7386.000	8.91	36.21	41.49	45.75	49.38	74.00	-24.62 peak
6	9848.000	10.73	37.81	38.22	41.64	51.96	74.00	-22.04 peak

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Mode:b; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



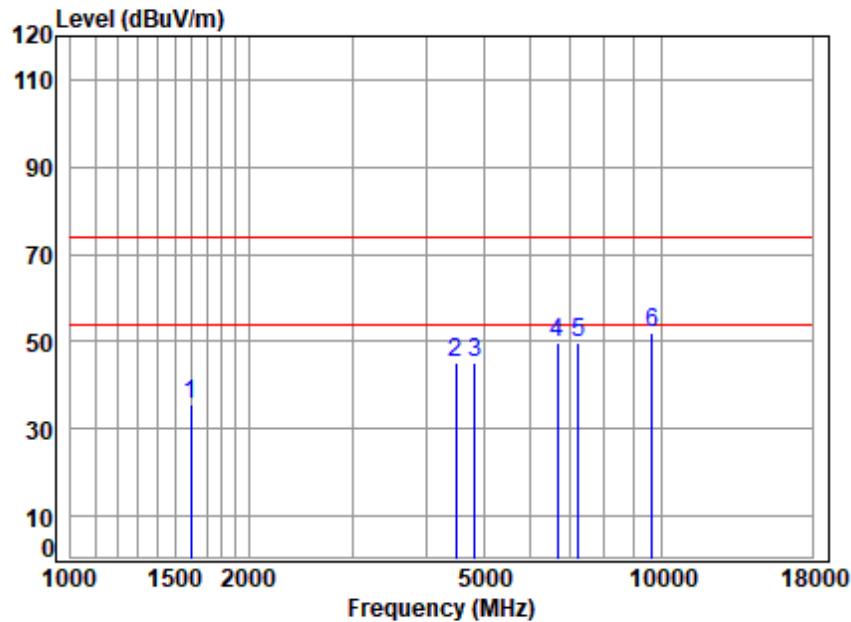
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	3.41	26.56	40.62	46.20	35.55	74.00	-38.45 peak
2	4316.859	6.59	33.28	42.41	48.06	45.52	74.00	-28.48 peak
3	4924.000	7.22	34.11	42.85	46.23	44.71	74.00	-29.29 peak
4	6322.136	8.27	35.43	42.05	48.03	49.68	74.00	-24.32 peak
5	7386.000	8.91	36.21	41.49	46.03	49.66	74.00	-24.34 peak
6	9848.000	10.73	37.81	38.22	41.98	52.30	74.00	-21.70 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



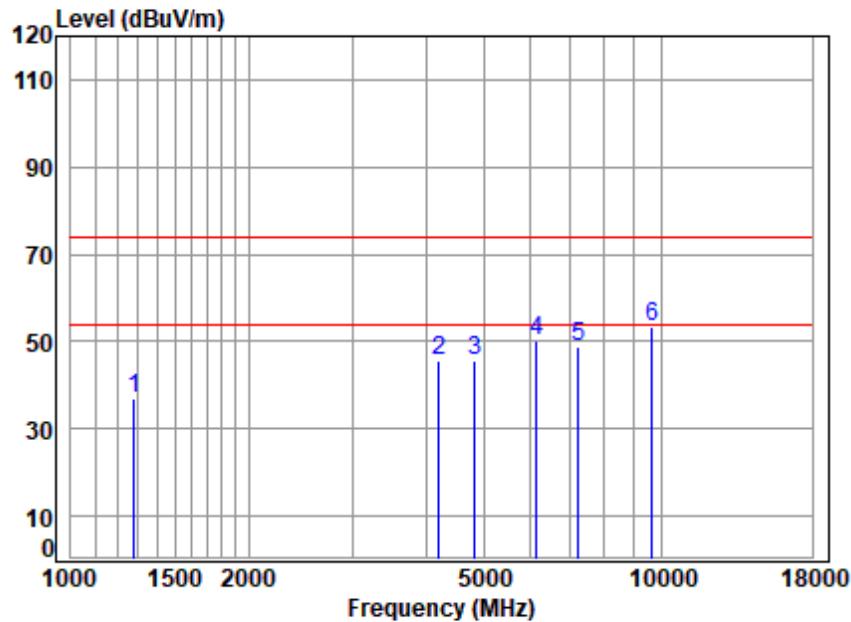
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1597.181	3.35	26.24	40.57	46.77	35.79	74.00 -38.21 peak
2	4495.125	6.76	33.59	42.55	47.51	45.31	74.00 -28.69 peak
3	4824.000	7.12	34.00	42.78	46.88	45.22	74.00 -28.78 peak
4	6679.040	8.38	35.71	41.85	47.64	49.88	74.00 -24.12 peak
5	7236.000	8.77	36.09	41.56	46.65	49.95	74.00 -24.05 peak
6	9648.000	10.79	37.69	38.51	41.92	51.89	74.00 -22.11 peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



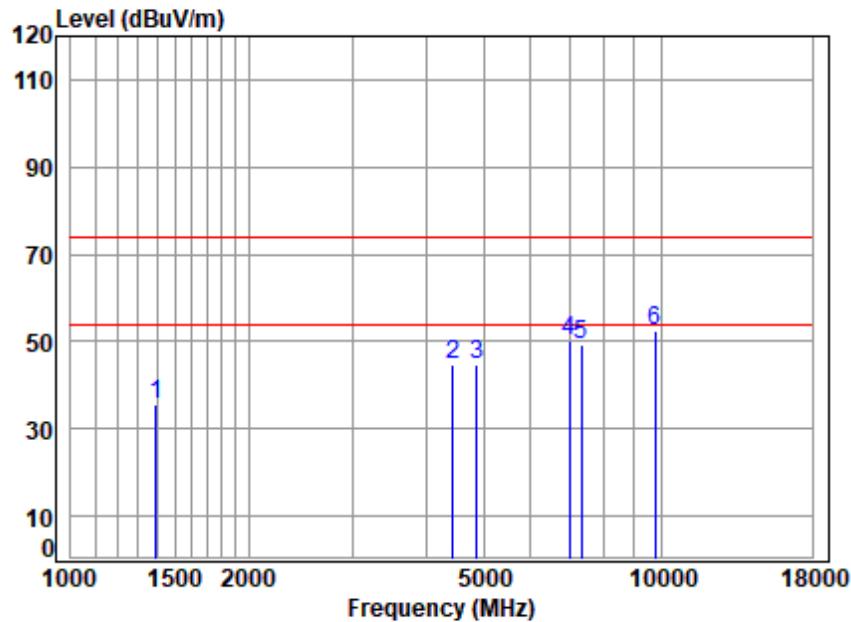
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1282.193	2.91	24.95	40.35	49.37	36.88	74.00 -37.12 peak
2	4206.011	6.48	33.08	42.32	48.20	45.44	74.00 -28.56 peak
3	4824.000	7.12	34.00	42.78	47.27	45.61	74.00 -28.39 peak
4	6142.019	8.27	35.25	42.16	49.04	50.40	74.00 -23.60 peak
5	7236.000	8.77	36.09	41.56	45.62	48.92	74.00 -25.08 peak
6	9648.000	10.79	37.69	38.51	43.32	53.29	74.00 -20.71 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



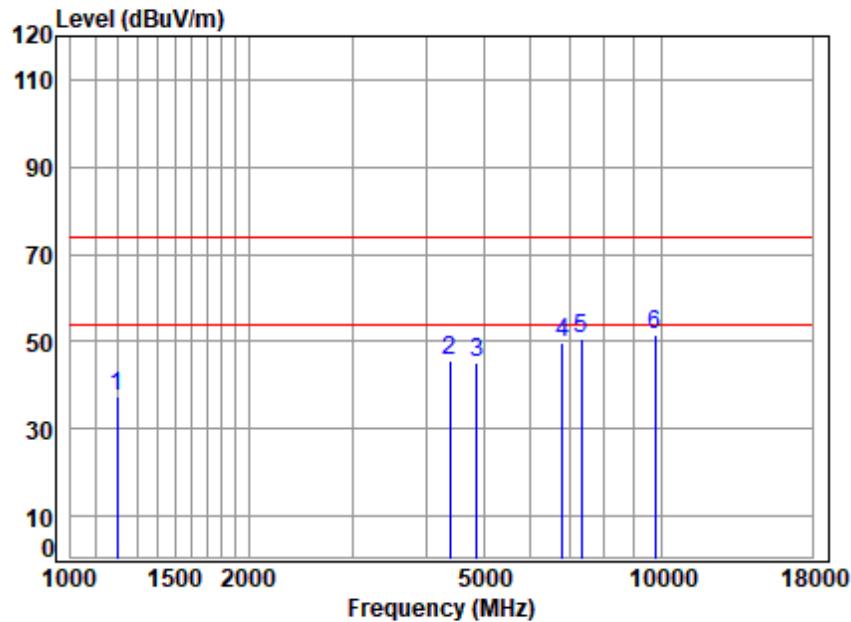
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1394.300	3.10	25.40	40.43	47.63	35.70	74.00 -38.30 peak
2	4430.628	6.70	33.48	42.50	46.89	44.57	74.00 -29.43 peak
3	4874.000	7.17	34.05	42.82	46.18	44.58	74.00 -29.42 peak
4	6995.172	8.54	35.90	41.69	47.64	50.39	74.00 -23.61 peak
5	7311.000	8.84	36.15	41.53	45.84	49.30	74.00 -24.70 peak
6	9748.000	10.76	37.75	38.37	42.40	52.54	74.00 -21.46 peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



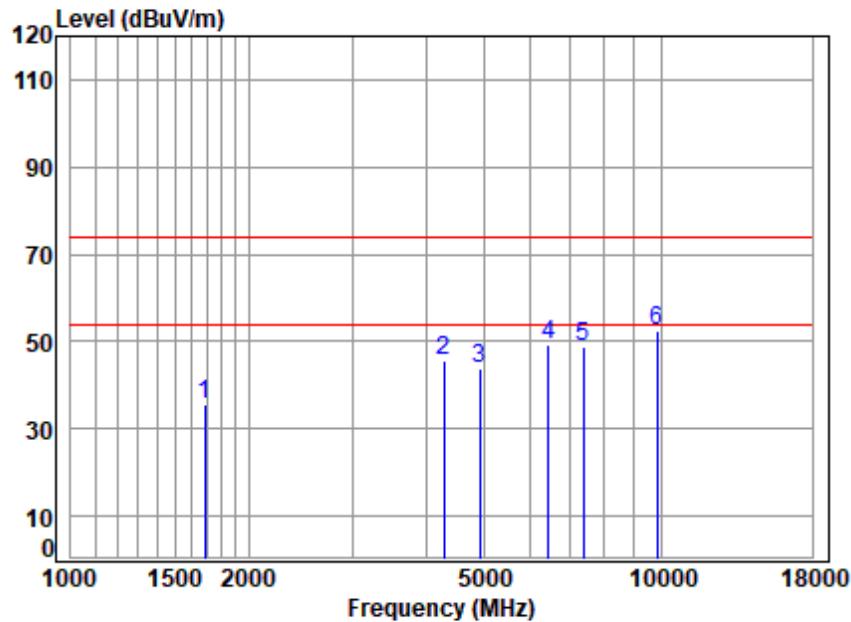
Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1199.726	2.76	24.59	40.28	50.23	37.30	74.00 -36.70 peak
2	4392.376	6.66	33.42	42.47	48.14	45.75	74.00 -28.25 peak
3	4874.000	7.17	34.05	42.82	46.99	45.39	74.00 -28.61 peak
4	6795.879	8.44	35.78	41.79	47.14	49.57	74.00 -24.43 peak
5	7311.000	8.84	36.15	41.53	47.20	50.66	74.00 -23.34 peak
6	9748.000	10.76	37.75	38.37	41.62	51.76	74.00 -22.24 peak

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Mode:b; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



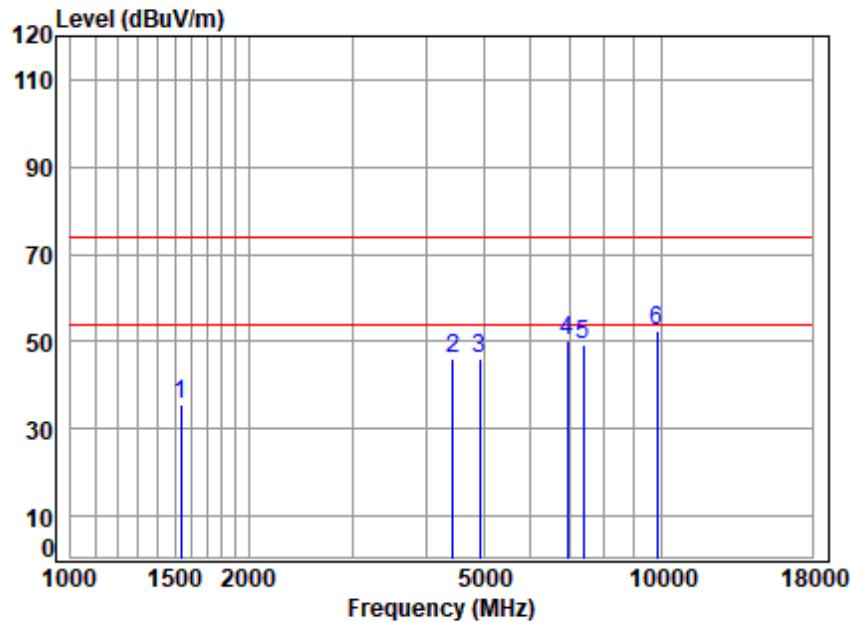
Site : chamber
Condition: 3m HORIZONTAL
Job No : 05014CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1687.347	3.42	26.62	40.62	46.00	35.42	74.00 -38.58 peak
2	4291.977	6.57	33.24	42.39	48.28	45.70	74.00 -28.30 peak
3	4924.000	7.22	34.11	42.85	45.10	43.58	74.00 -30.42 peak
4	6451.353	8.28	35.55	41.98	47.44	49.29	74.00 -24.71 peak
5	7386.000	8.91	36.21	41.49	45.10	48.73	74.00 -25.27 peak
6	9848.000	10.73	37.81	38.22	42.33	52.65	74.00 -21.35 peak

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Mode:b; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 05014CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1533.841	3.29	25.96	40.53	46.73	35.45	74.00	-38.55	peak
2 4443.453	6.71	33.50	42.51	48.18	45.88	74.00	-28.12	peak
3 4924.000	7.22	34.11	42.85	47.65	46.13	74.00	-27.87	peak
4 6934.778	8.51	35.86	41.72	47.58	50.23	74.00	-23.77	peak
5 7386.000	8.91	36.21	41.49	45.48	49.11	74.00	-24.89	peak
6 9848.000	10.73	37.81	38.22	42.01	52.33	74.00	-21.67	peak

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Shenzhen Branch Inspection & Testing Services Laboratory

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8 Photographs

8.1 Test Setup

Refer to test setup photos.

8.2 EUT Constructional Details (EUT Photos)

Refer to external and internal photos.



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9 Appendix

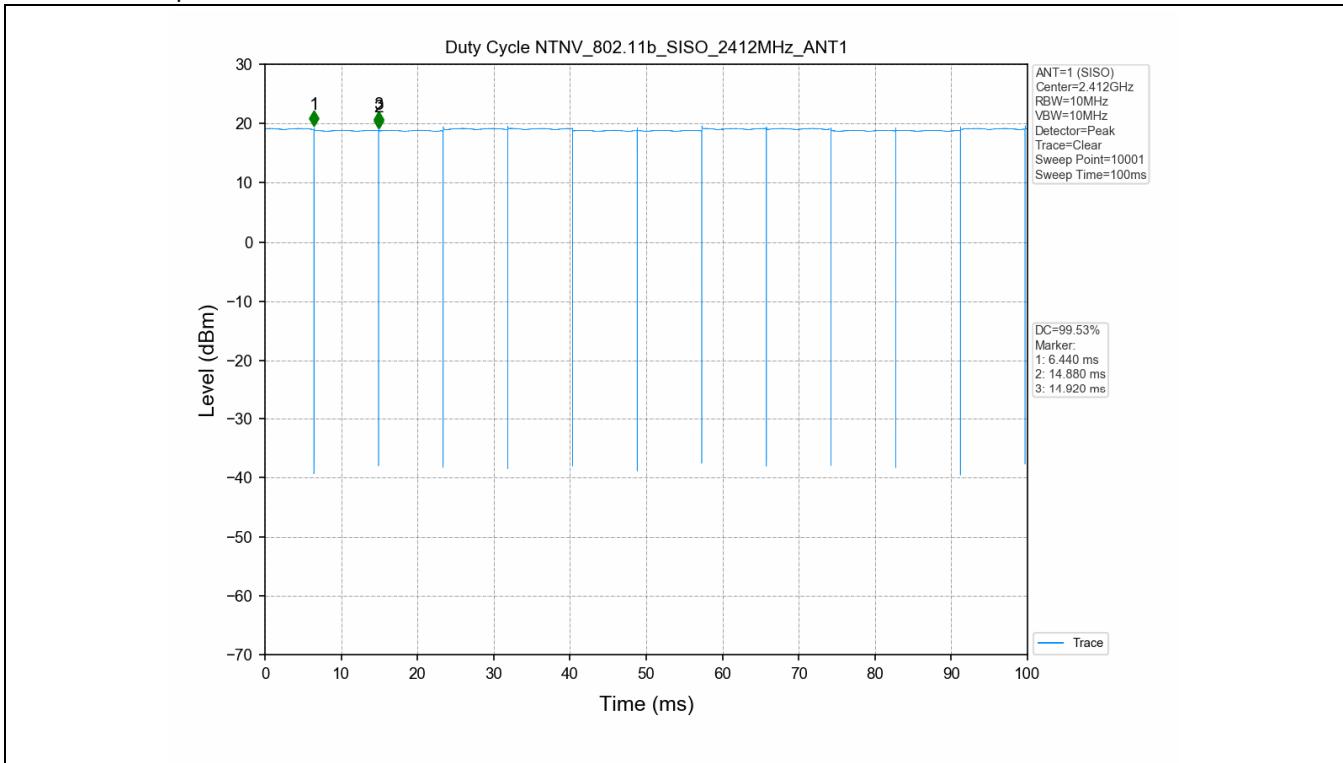
9.1 Appendix 15.247

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.440	8.480	99.53	0.02
	2437	SISO	1	8.440	8.480	99.53	0.02
	2462	SISO	1	8.440	8.480	99.53	0.02
802.11g	2412	SISO	1	1.394	1.435	97.14	0.13
	2437	SISO	1	1.395	1.436	97.14	0.13
	2462	SISO	1	1.396	1.436	97.21	0.12
802.11n(HT20)	2412	SISO	1	1.308	1.350	96.89	0.14
	2437	SISO	1	1.309	1.349	97.03	0.13
	2462	SISO	1	1.307	1.349	96.89	0.14

1.2 Test Graph

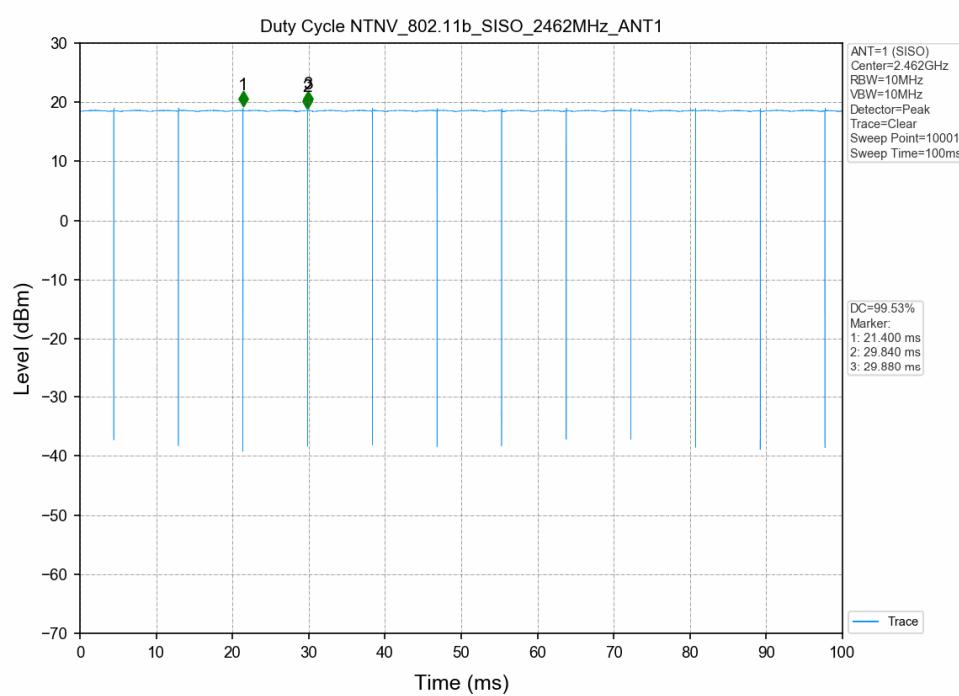
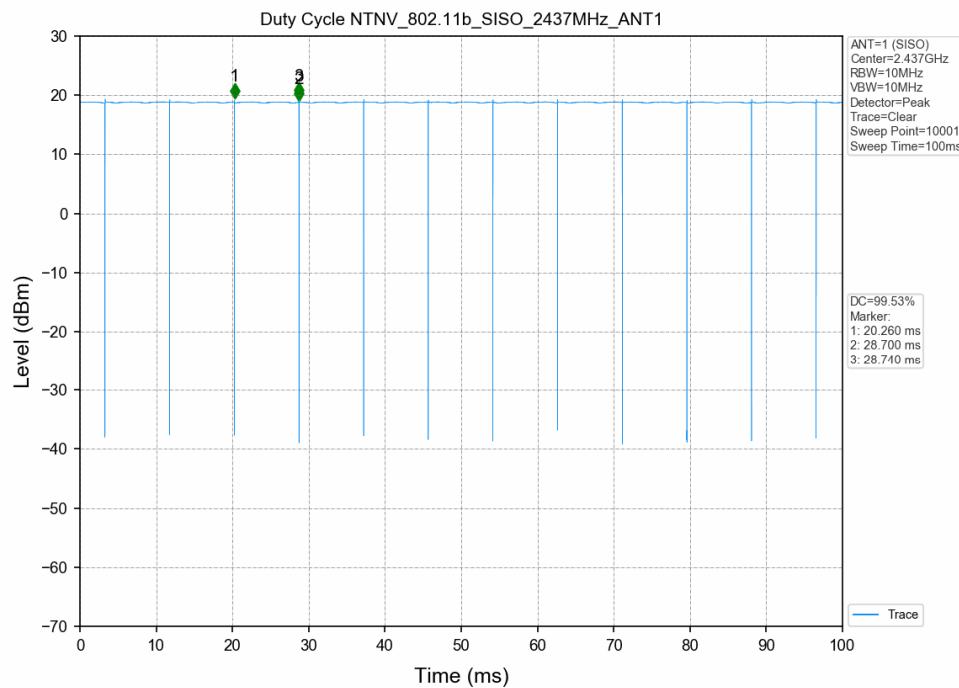


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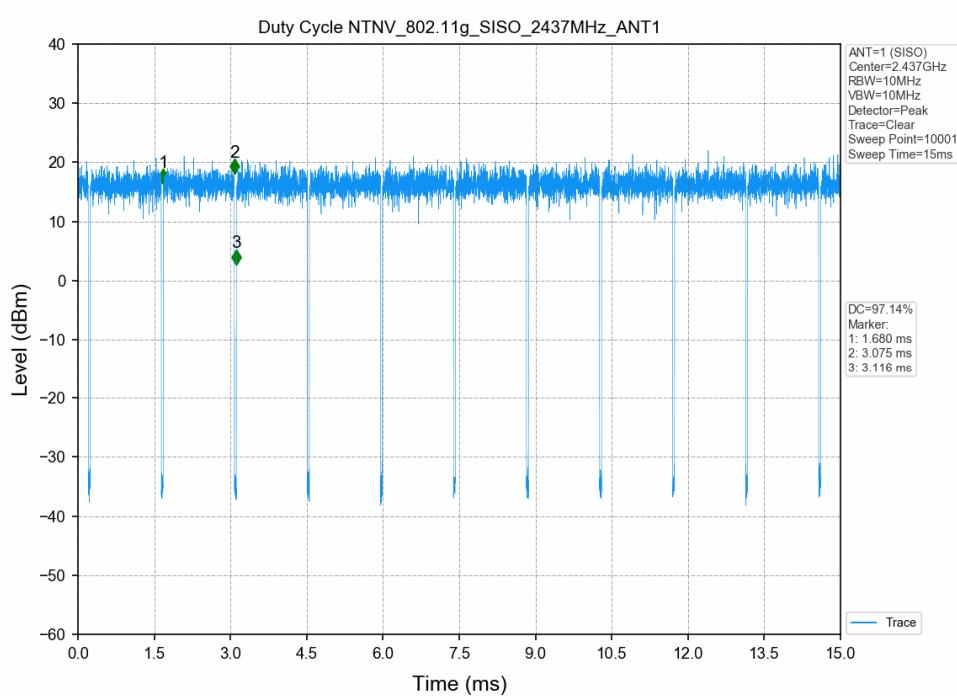
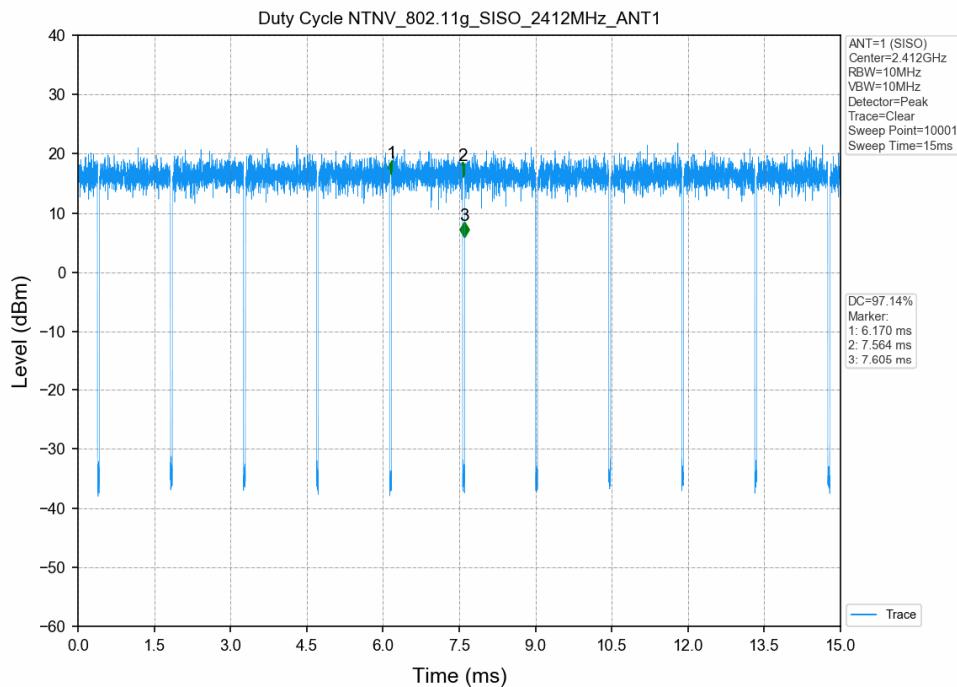
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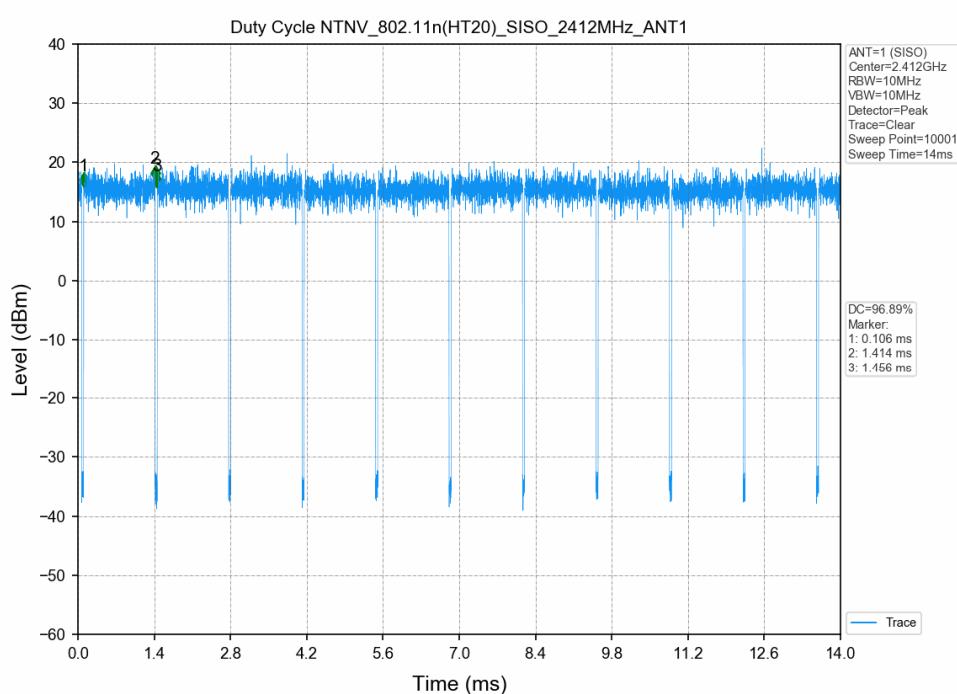
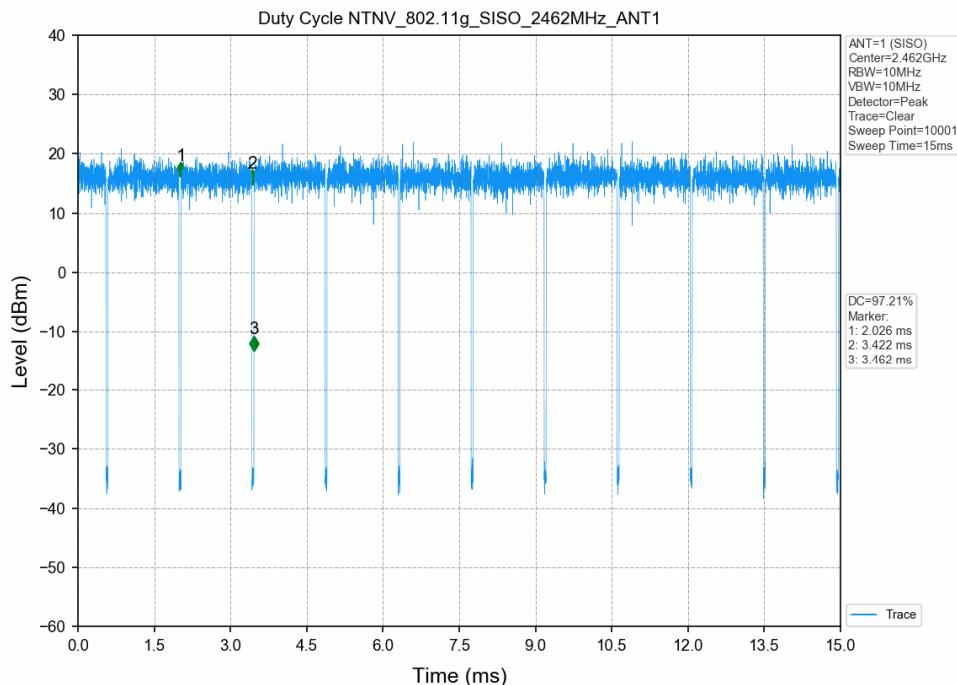
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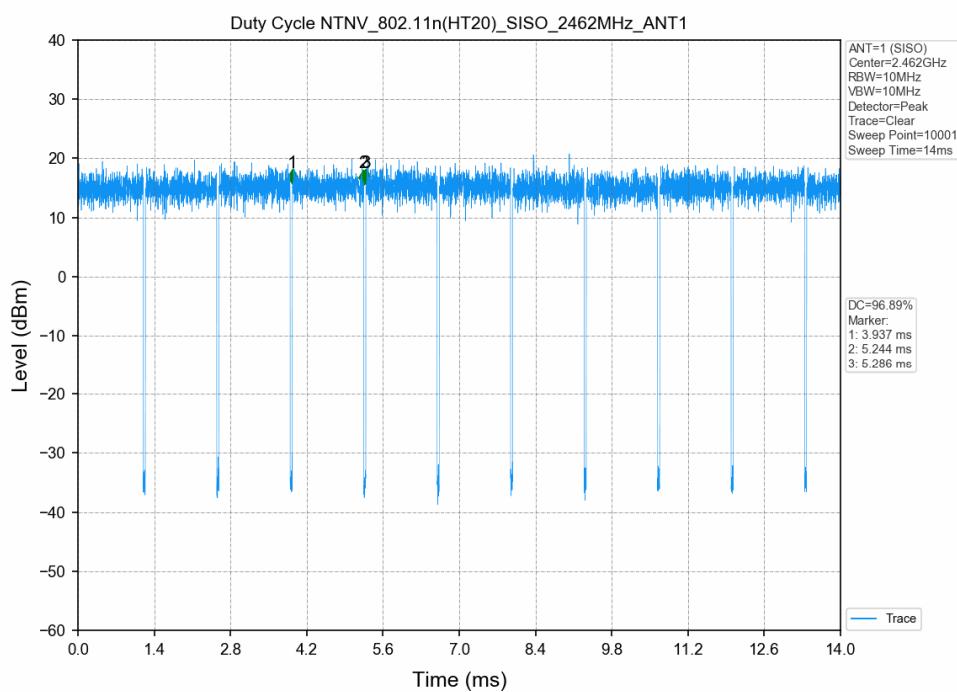
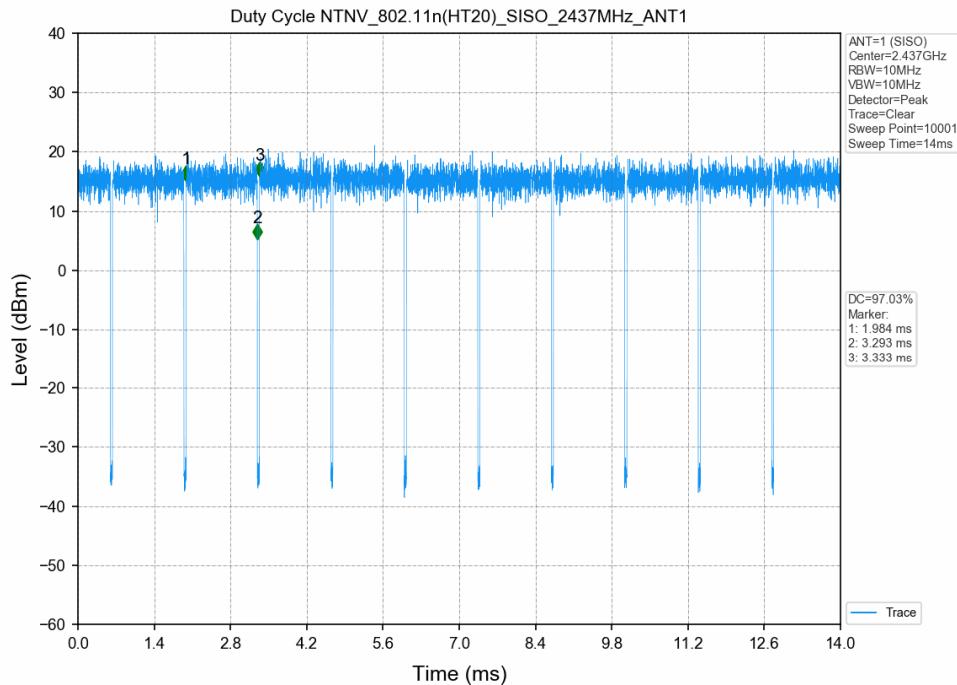
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2. Minimum 6dB Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	
802.11b	2412	SISO	1	7.585	PASS
	2437	SISO	1	8.081	PASS
	2462	SISO	1	7.584	PASS
802.11g	2412	SISO	1	15.148	PASS
	2437	SISO	1	15.356	PASS
	2462	SISO	1	15.175	PASS
802.11n(HT20)	2412	SISO	1	16.077	PASS
	2437	SISO	1	15.992	PASS
	2462	SISO	1	15.103	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	12.410	Only for Report Use
	2437	SISO	1	12.411	Only for Report Use
	2462	SISO	1	12.396	Only for Report Use
802.11g	2412	SISO	1	16.600	Only for Report Use
	2437	SISO	1	16.626	Only for Report Use
	2462	SISO	1	16.590	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.556	Only for Report Use
	2437	SISO	1	17.551	Only for Report Use
	2462	SISO	1	17.557	Only for Report Use

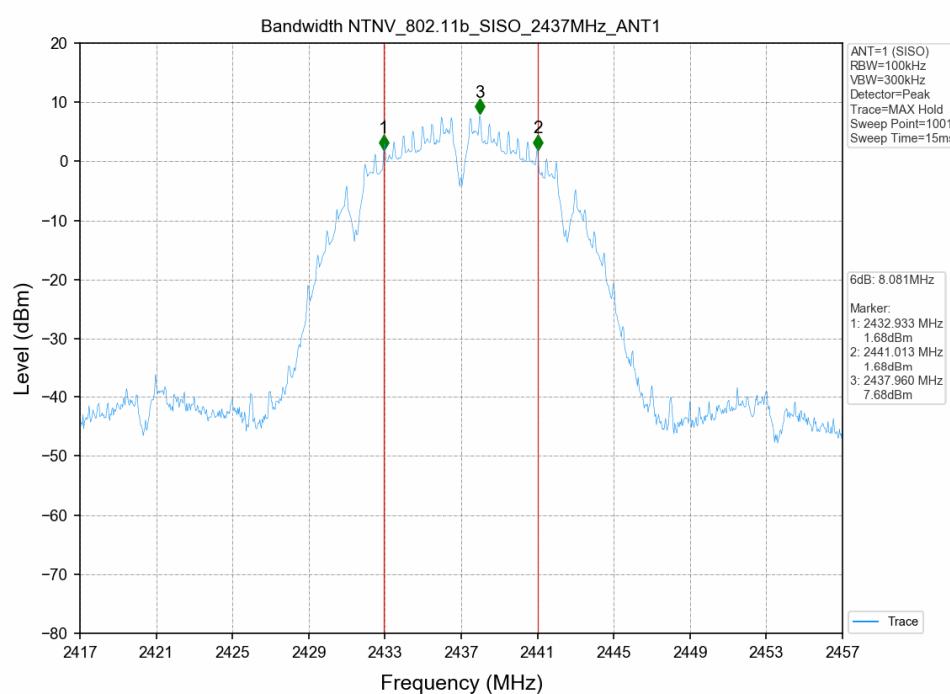
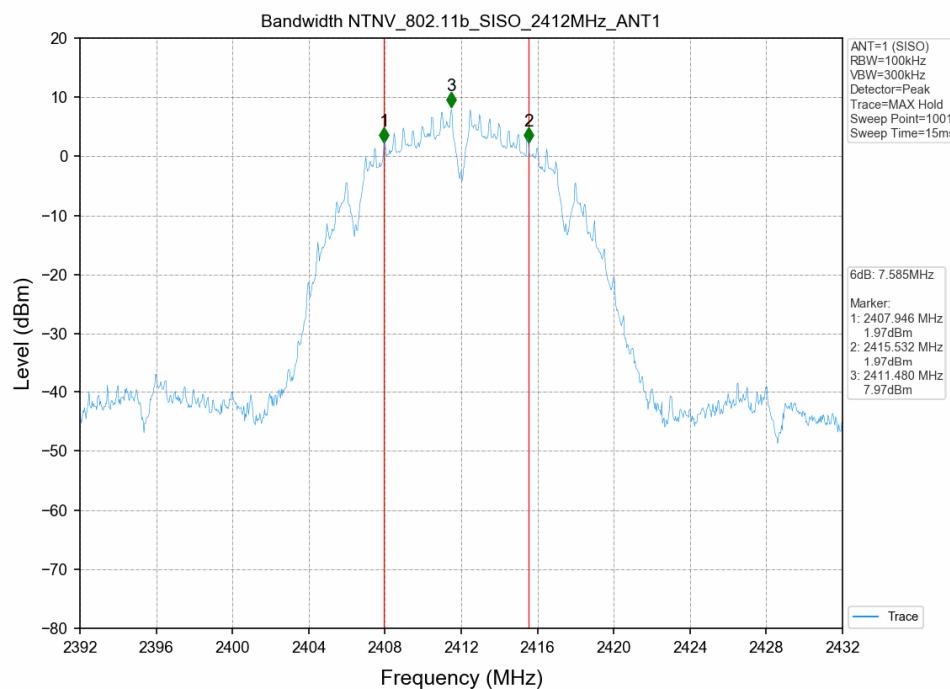
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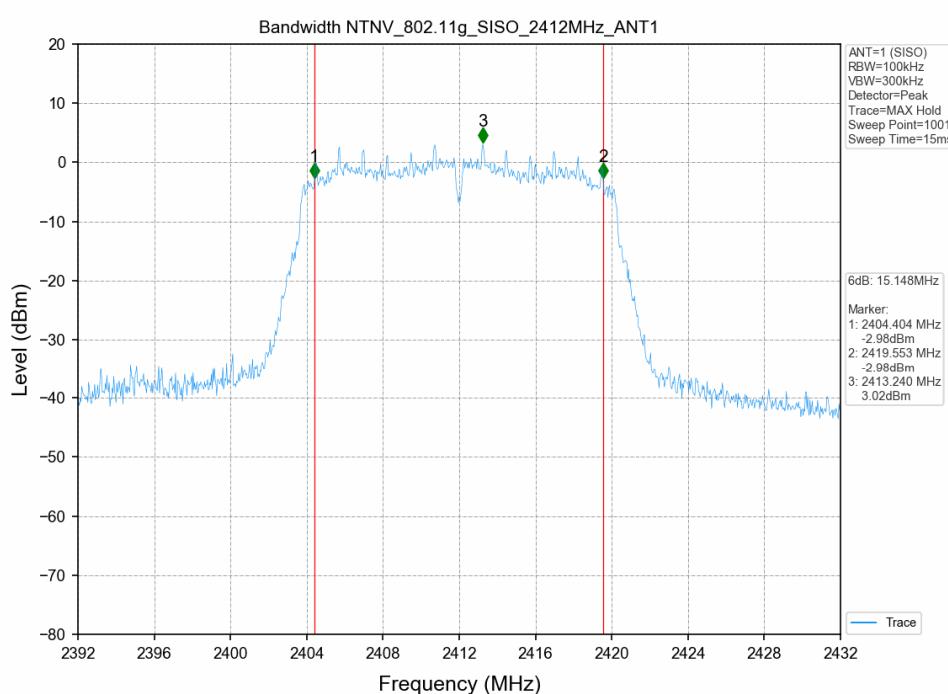
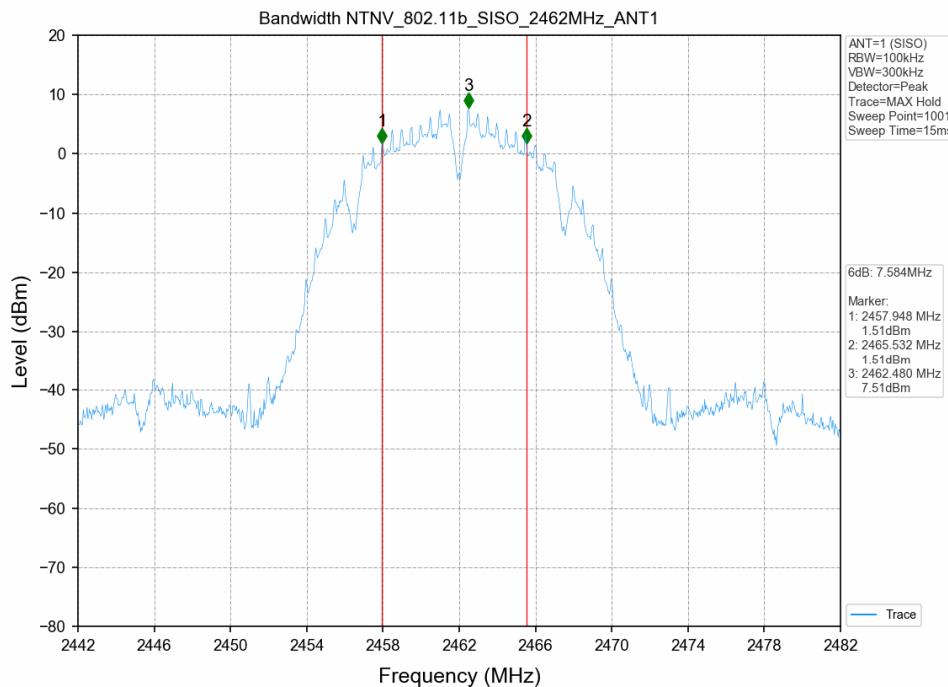
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2.2 Test Graph - 6dB Bandwidth



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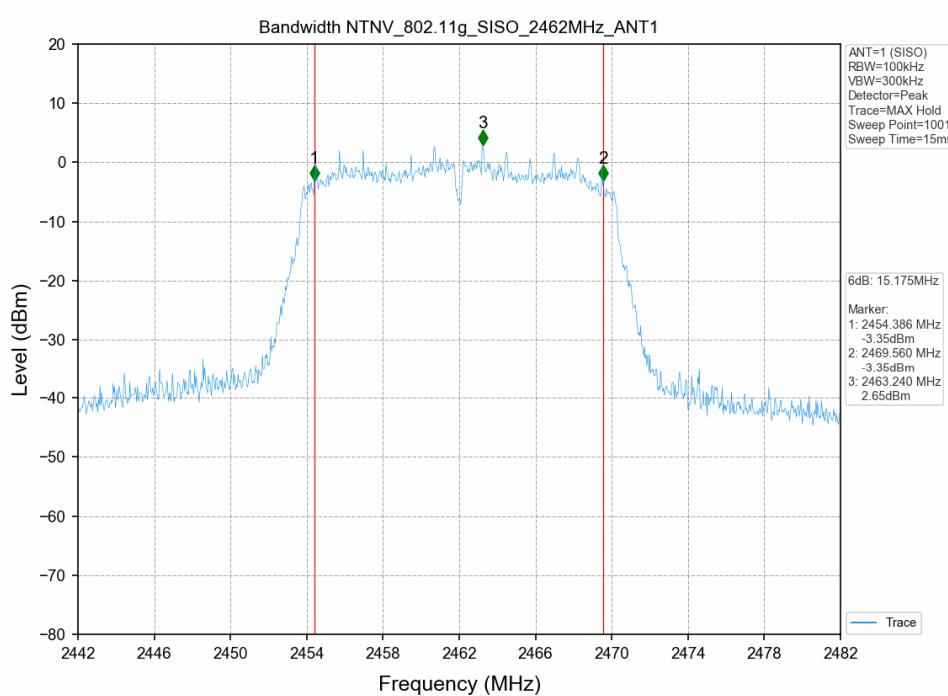
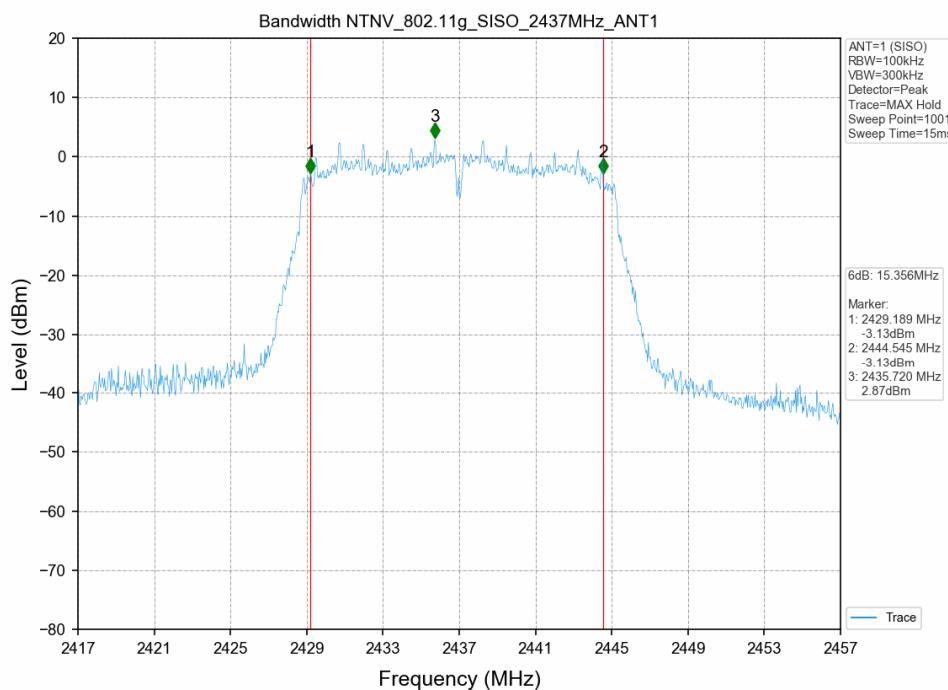
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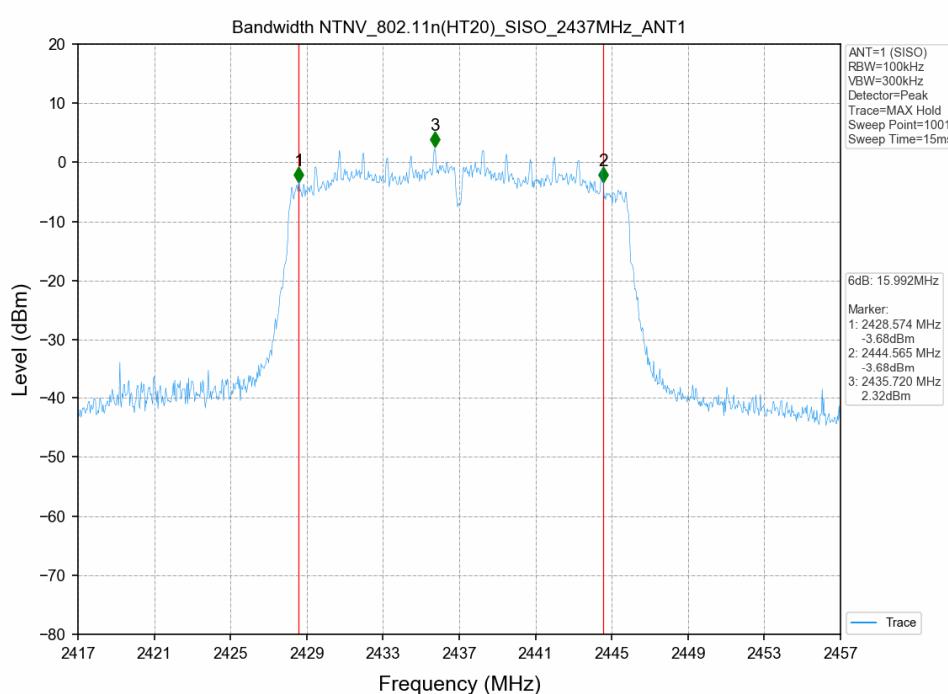
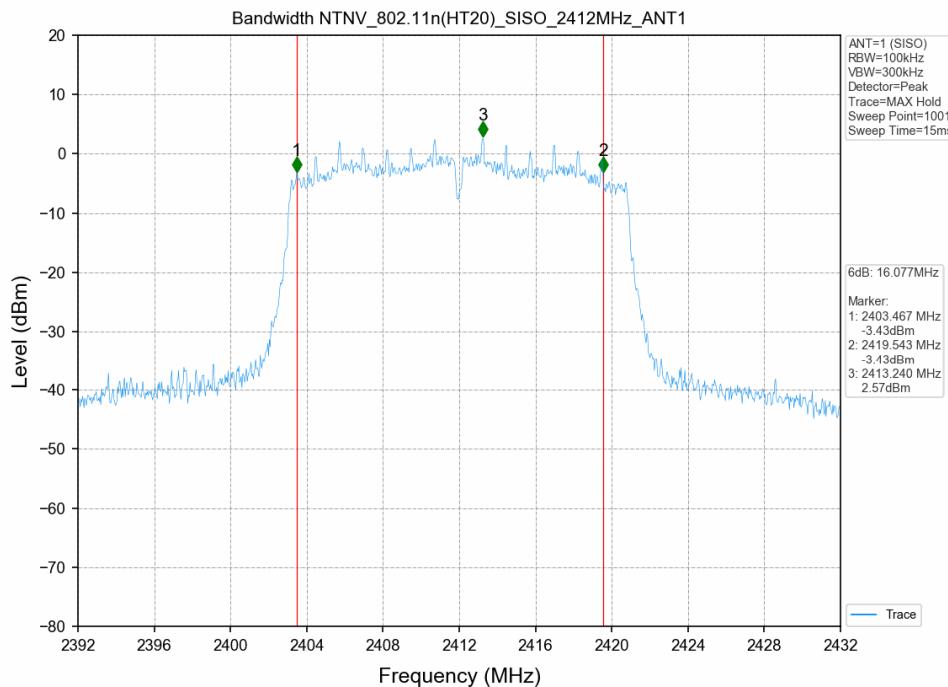
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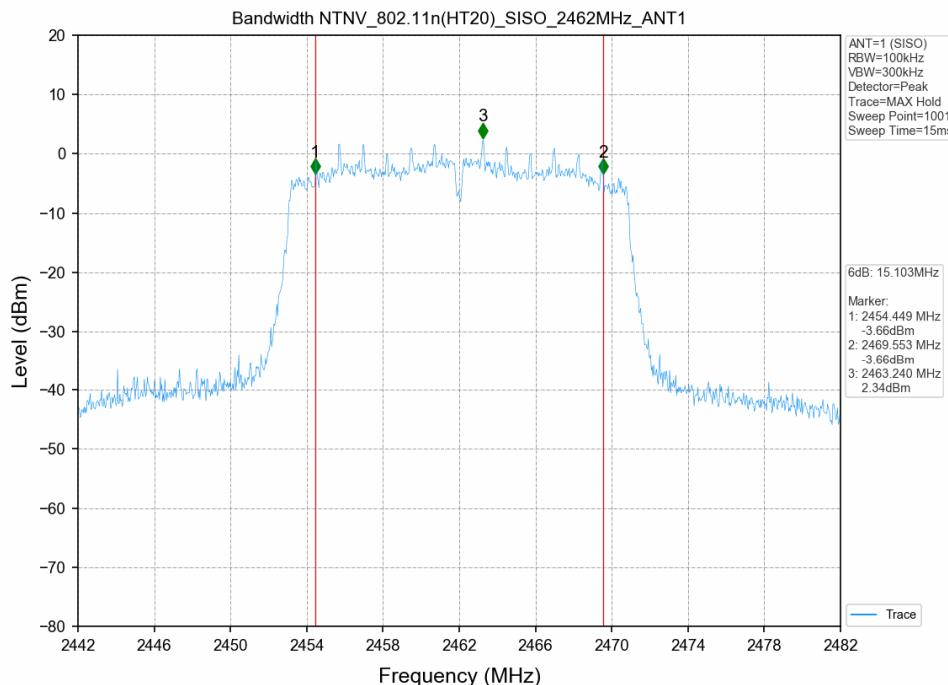
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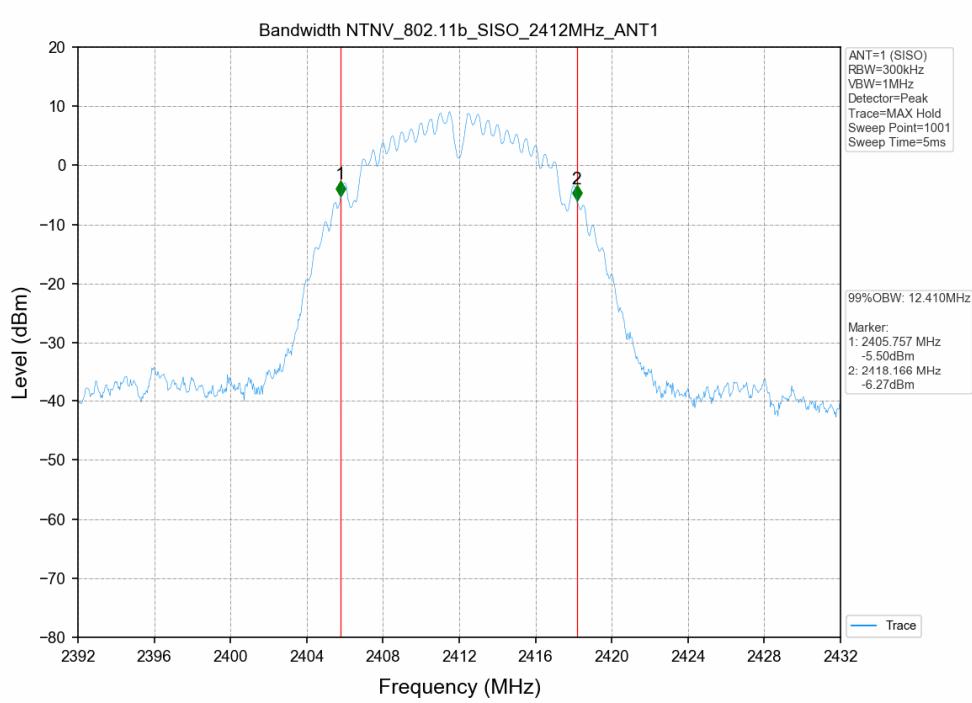


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2.3 Test Graph - 99% Occupied Bandwidth



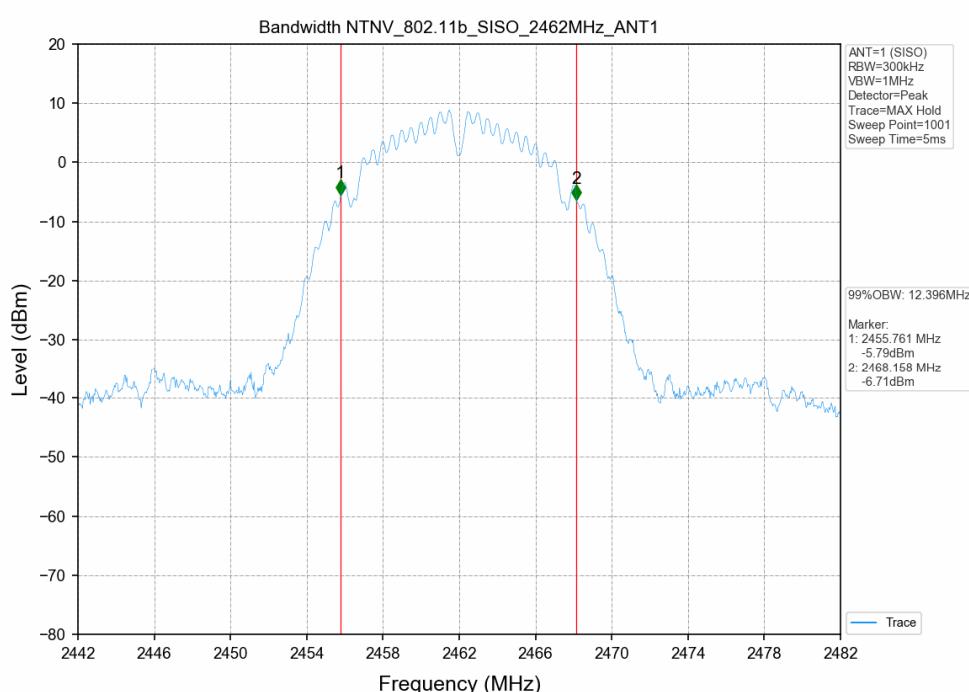
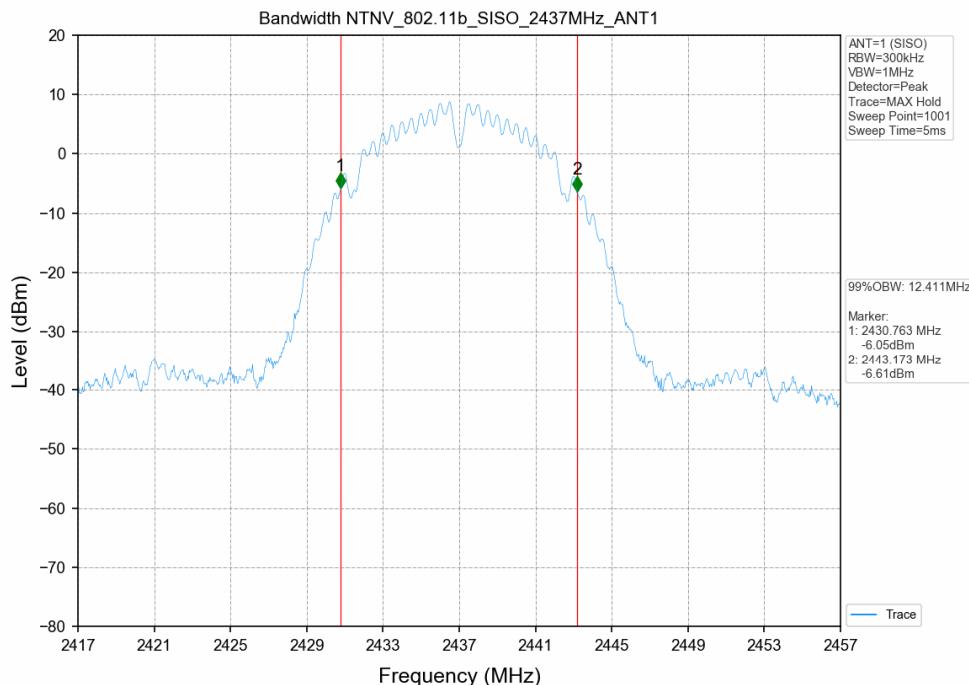
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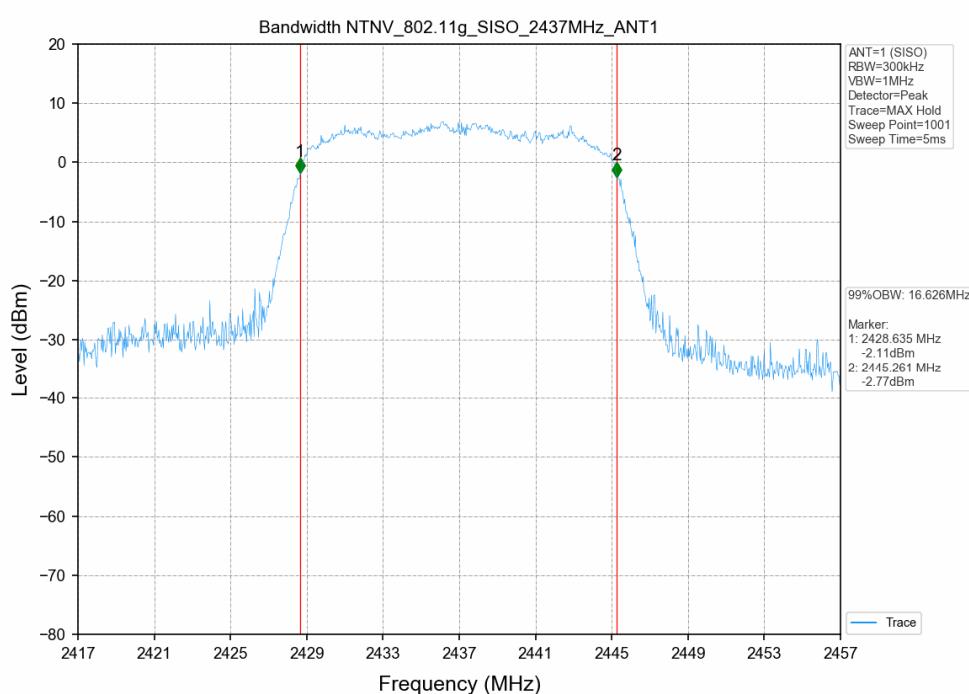
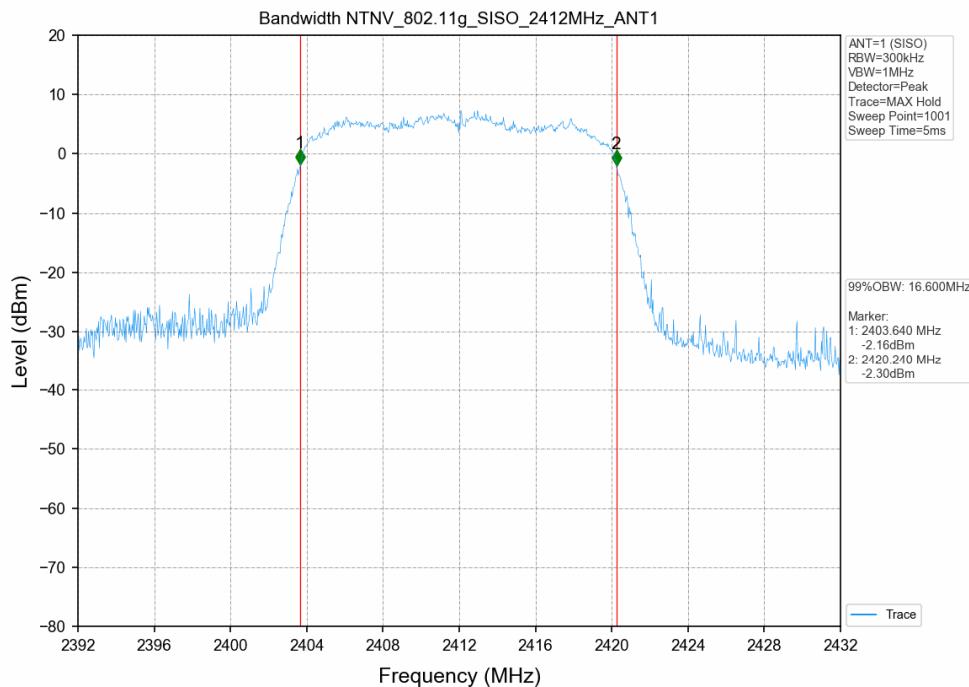
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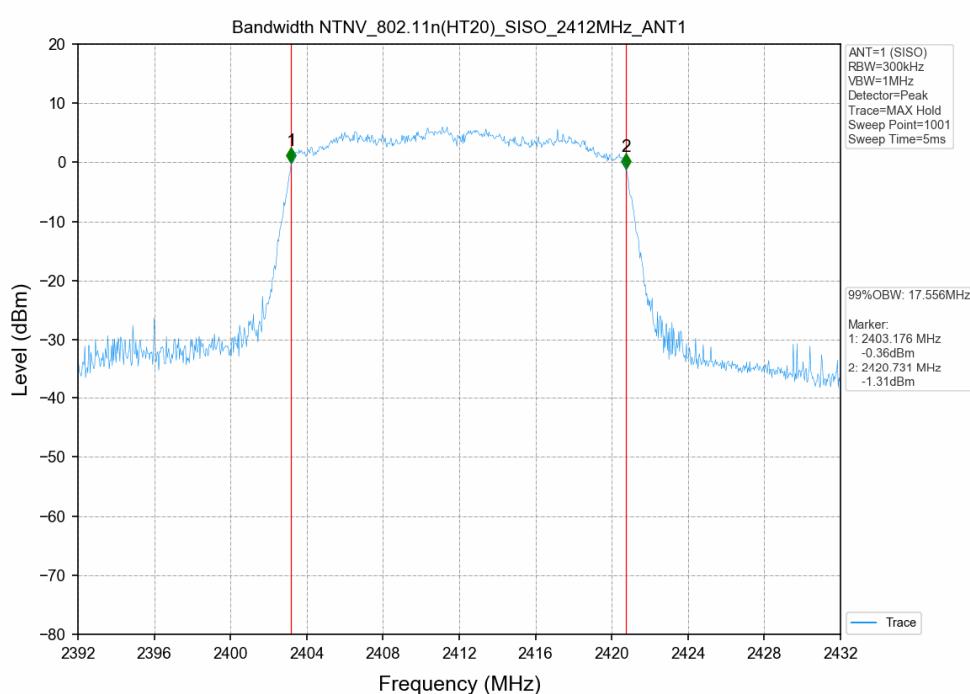
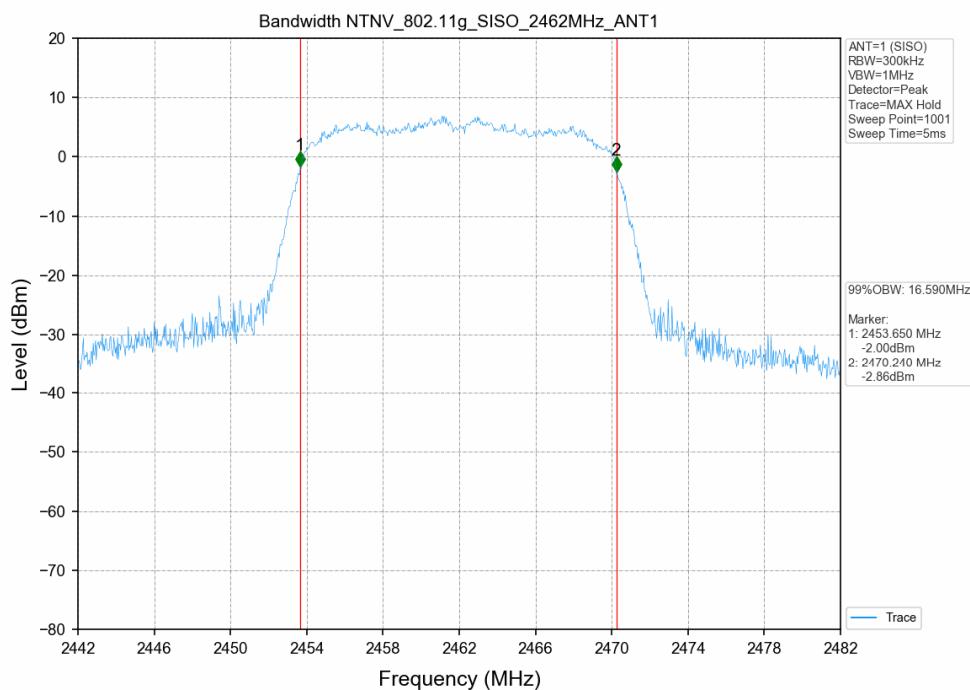
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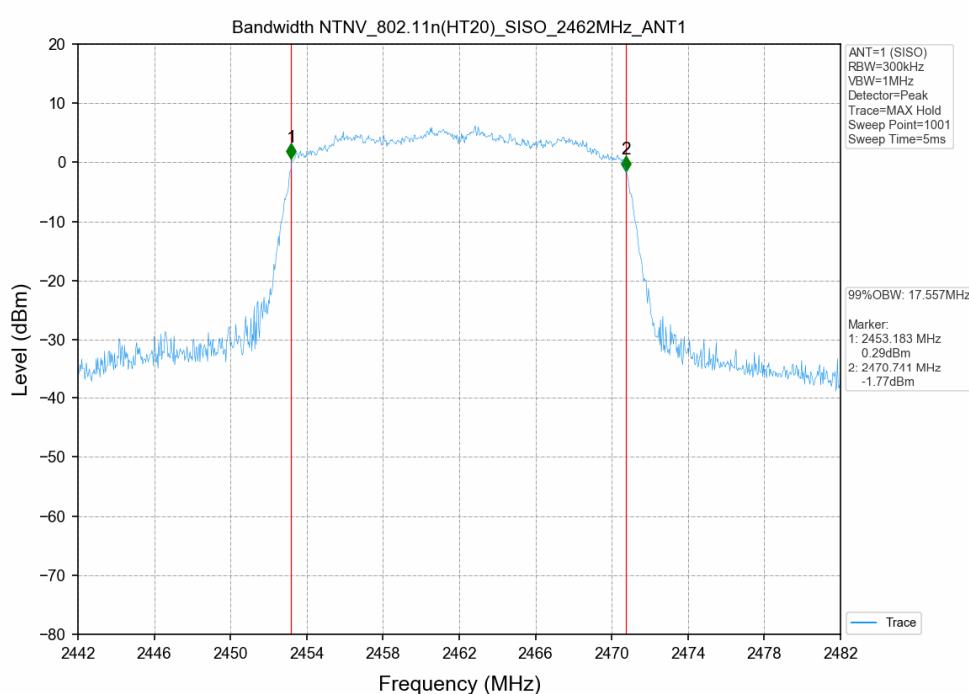
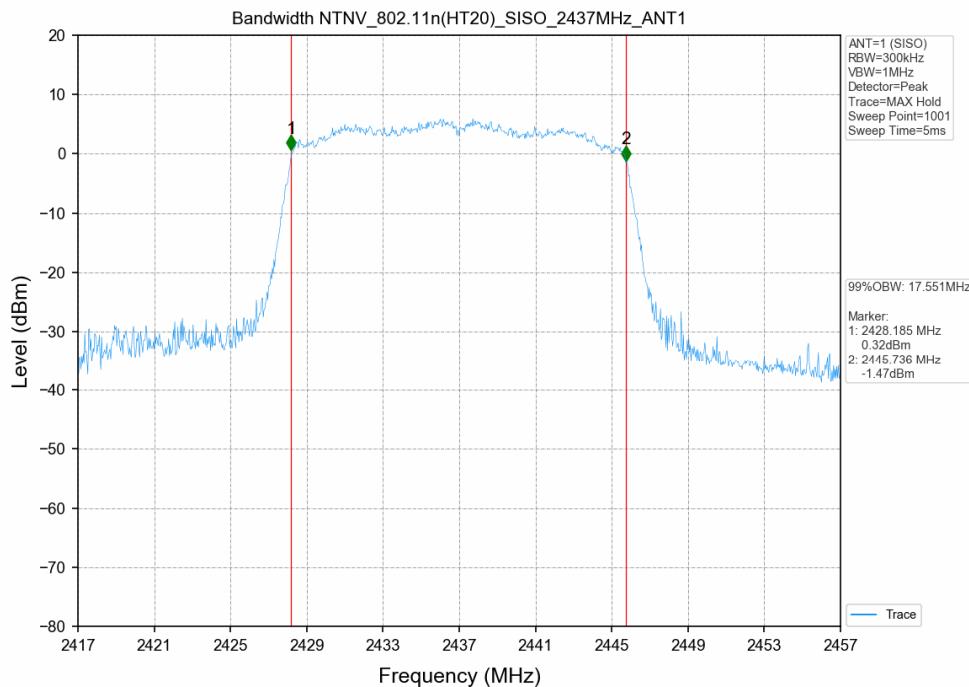
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	19.55	30	PASS
	2437	SISO	18.49	30	PASS
	2462	SISO	19.38	30	PASS
802.11g	2412	SISO	22.09	30	PASS
	2437	SISO	22.02	30	PASS
	2462	SISO	21.84	30	PASS
802.11n(HT20)	2412	SISO	21.30	30	PASS
	2437	SISO	21.27	30	PASS
	2462	SISO	21.12	30	PASS

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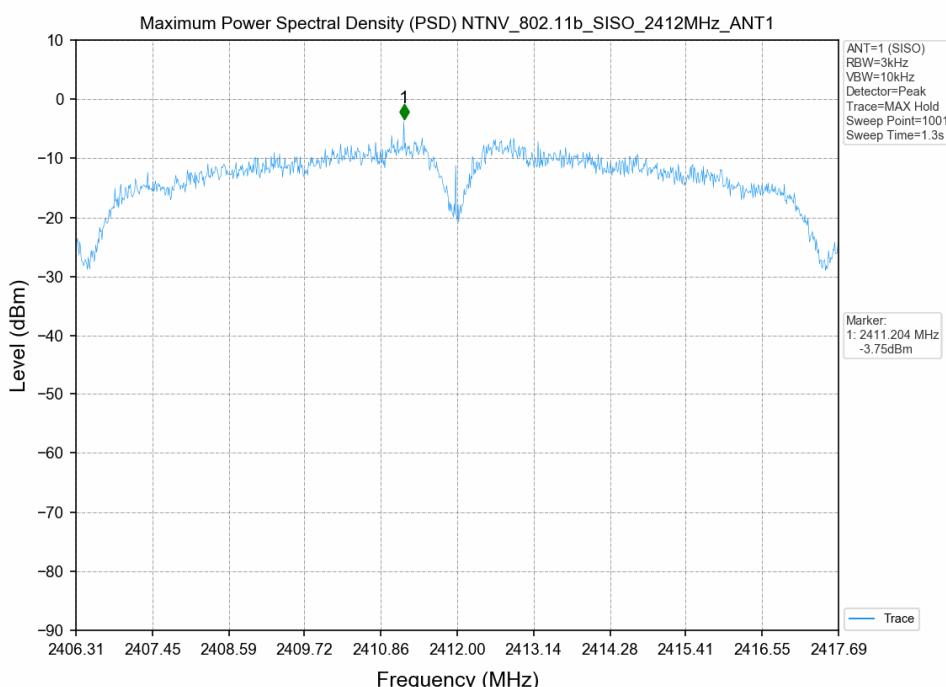
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4. Maximum Power Spectral Density (PSD)**4.1 Test Result**

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-3.75	≤8	PASS
	2437	SISO	-4.90	≤8	PASS
	2462	SISO	-6.62	≤8	PASS
802.11g	2412	SISO	-10.69	≤8	PASS
	2437	SISO	-10.86	≤8	PASS
	2462	SISO	-10.38	≤8	PASS
802.11n(HT20)	2412	SISO	-11.63	≤8	PASS
	2437	SISO	-10.88	≤8	PASS
	2462	SISO	-11.34	≤8	PASS

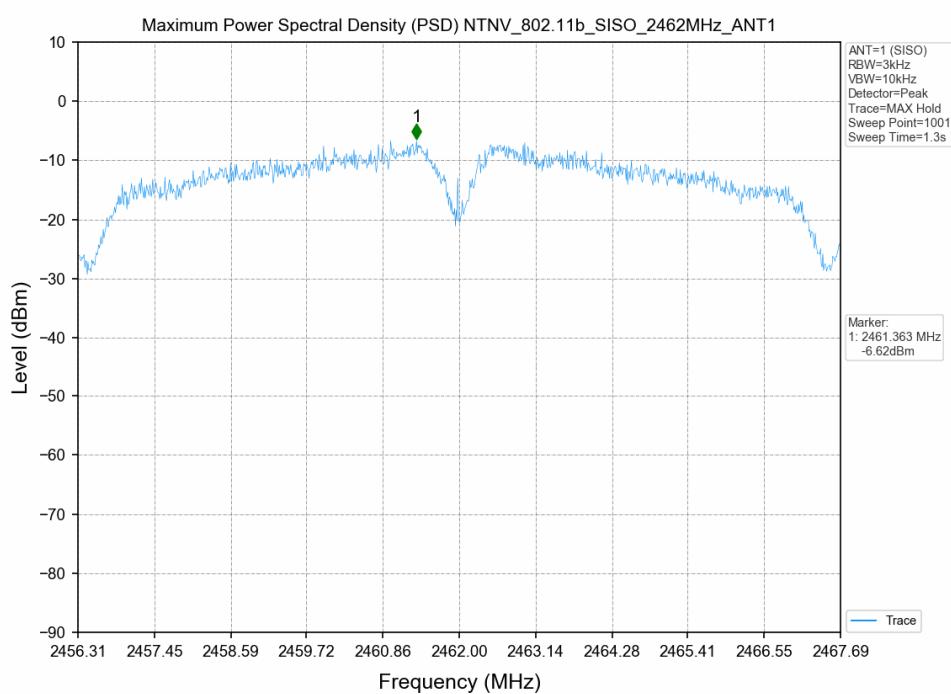
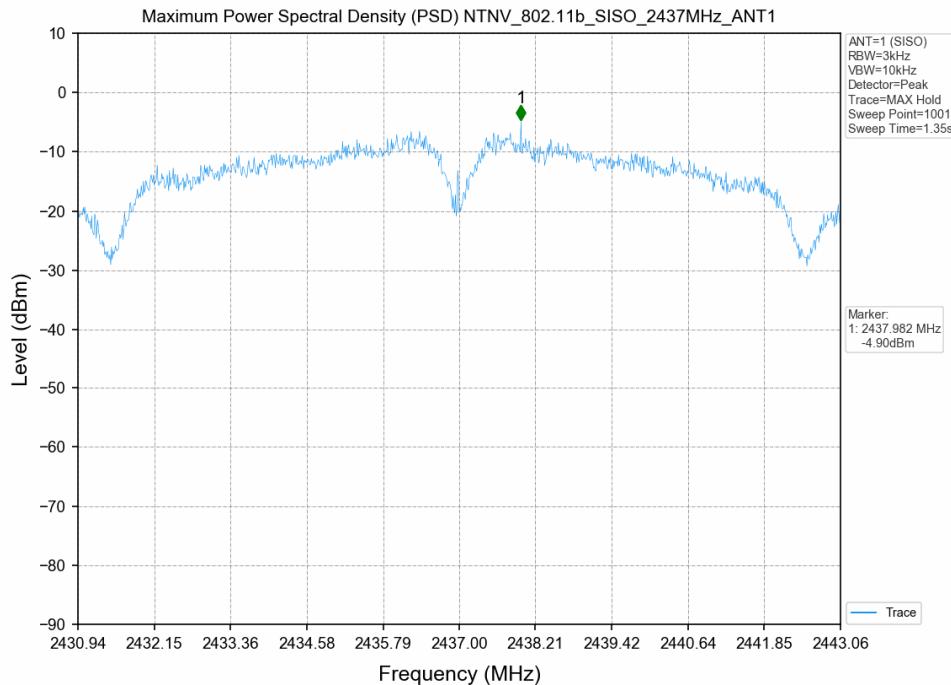
4.2 Test Graph

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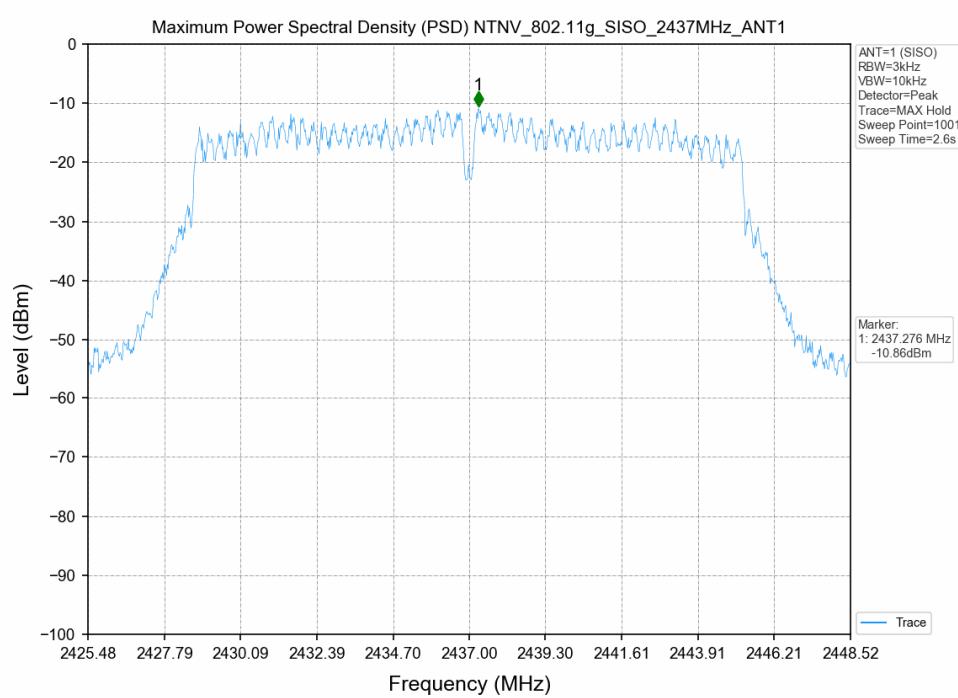
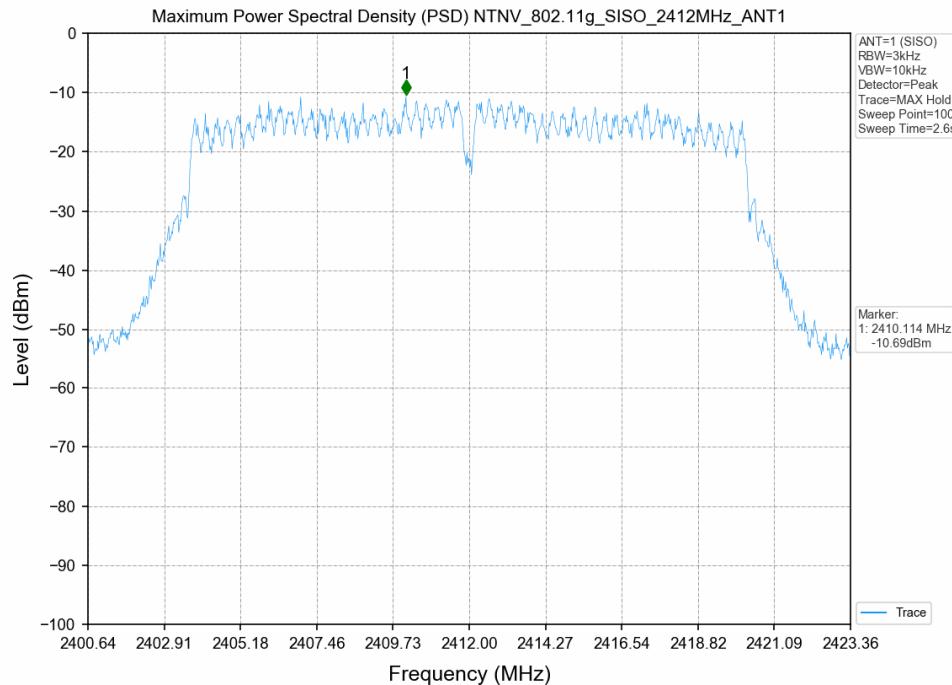
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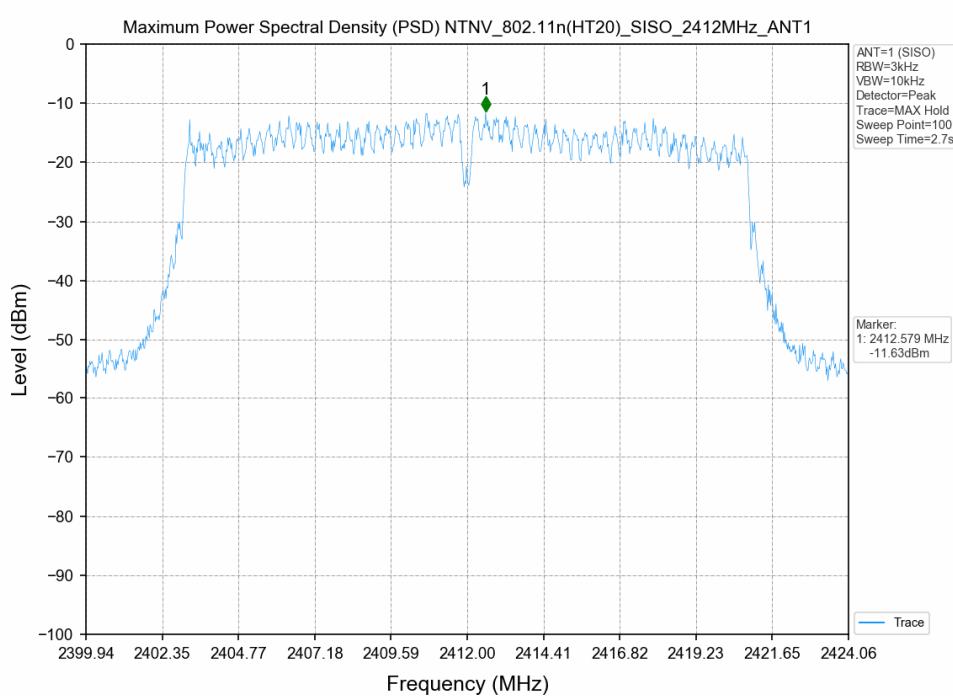
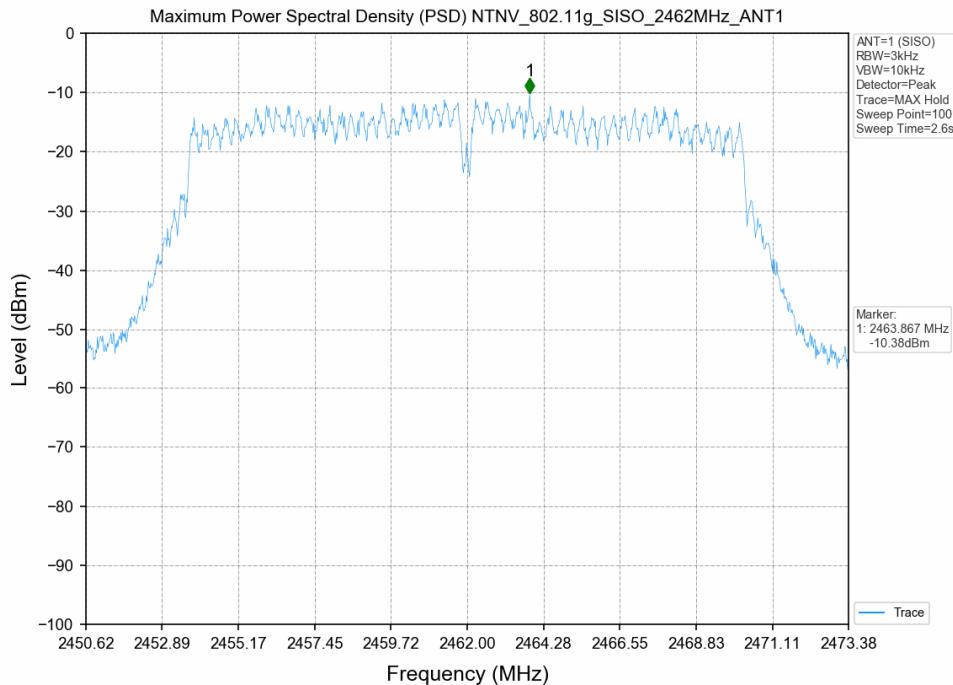


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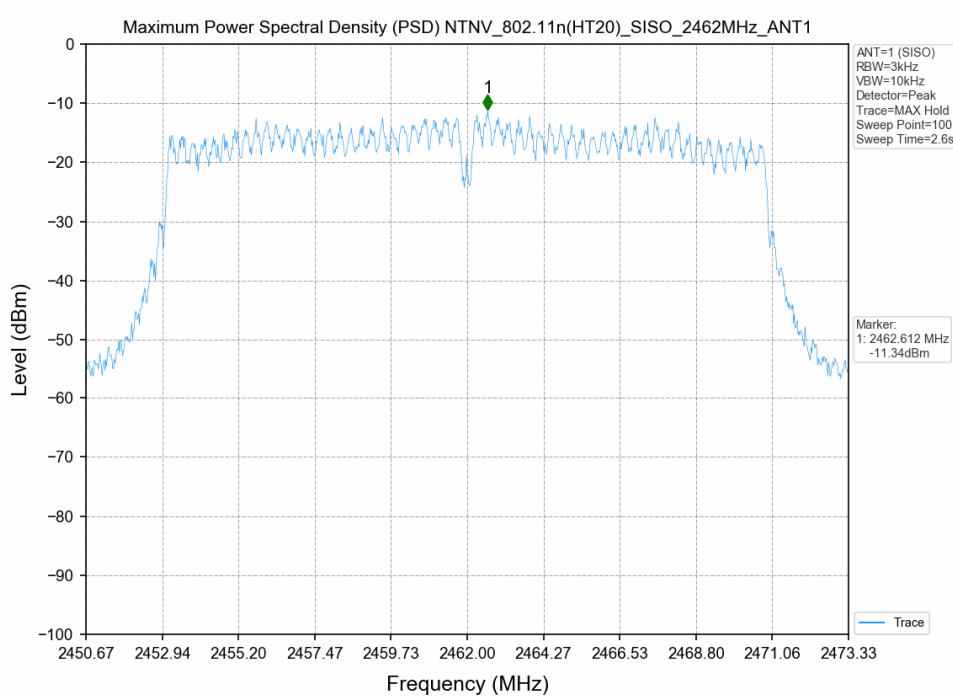
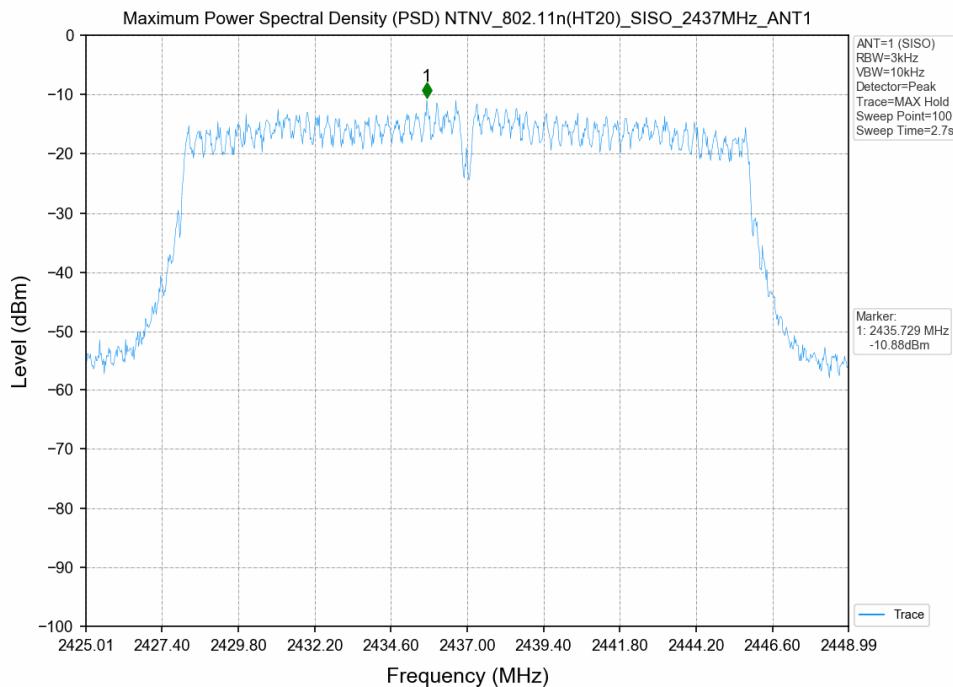
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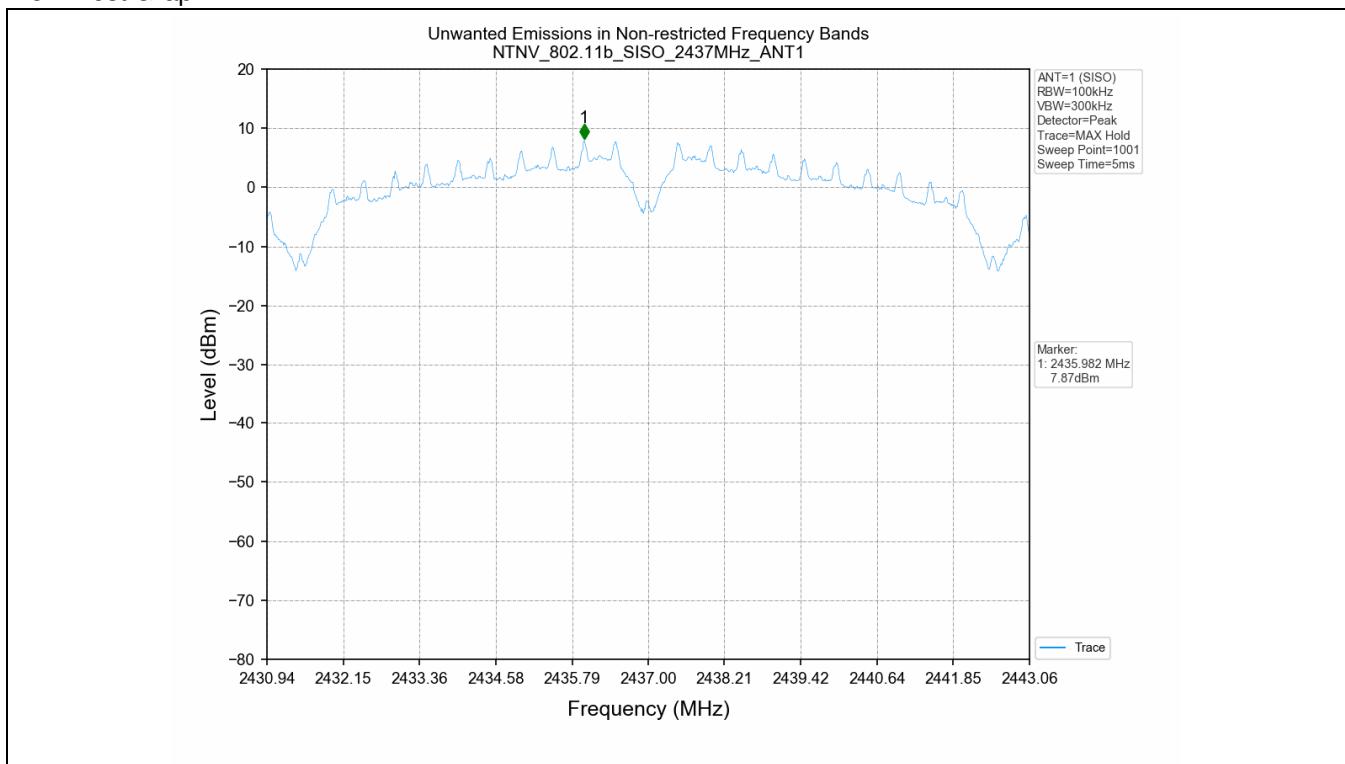


5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-12.13	PASS
	2437	SISO	1	Refer to test graph	-12.13	PASS
	2462	SISO	1	Refer to test graph	-12.13	PASS
802.11g	2412	SISO	1	Refer to test graph	-16.91	PASS
	2437	SISO	1	Refer to test graph	-16.91	PASS
	2462	SISO	1	Refer to test graph	-16.91	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-17.39	PASS
	2437	SISO	1	Refer to test graph	-17.39	PASS
	2462	SISO	1	Refer to test graph	-17.39	PASS

5.2 Test Graph



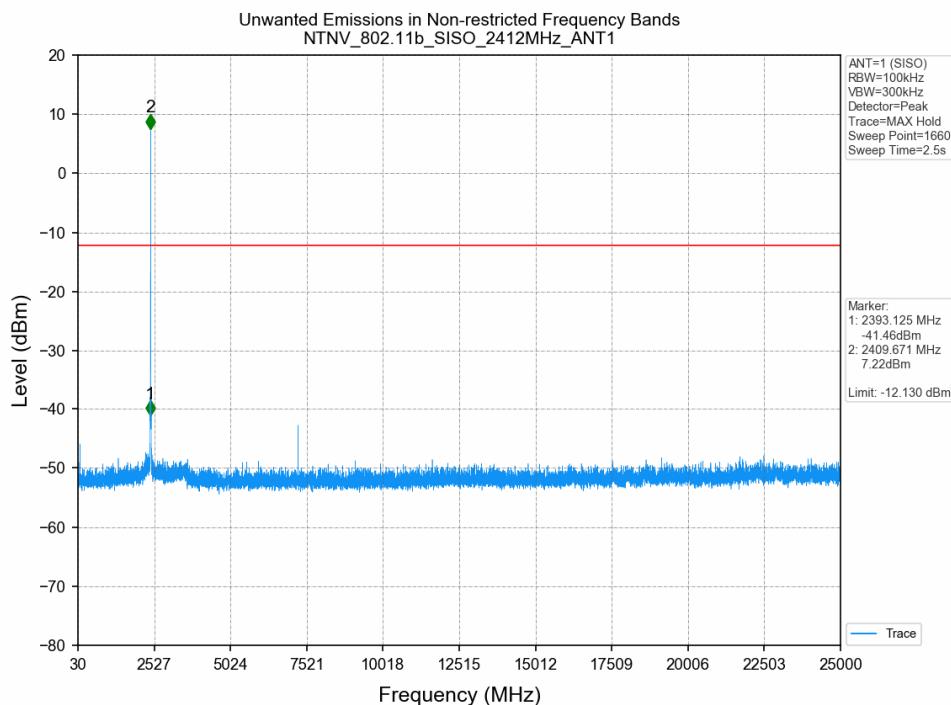
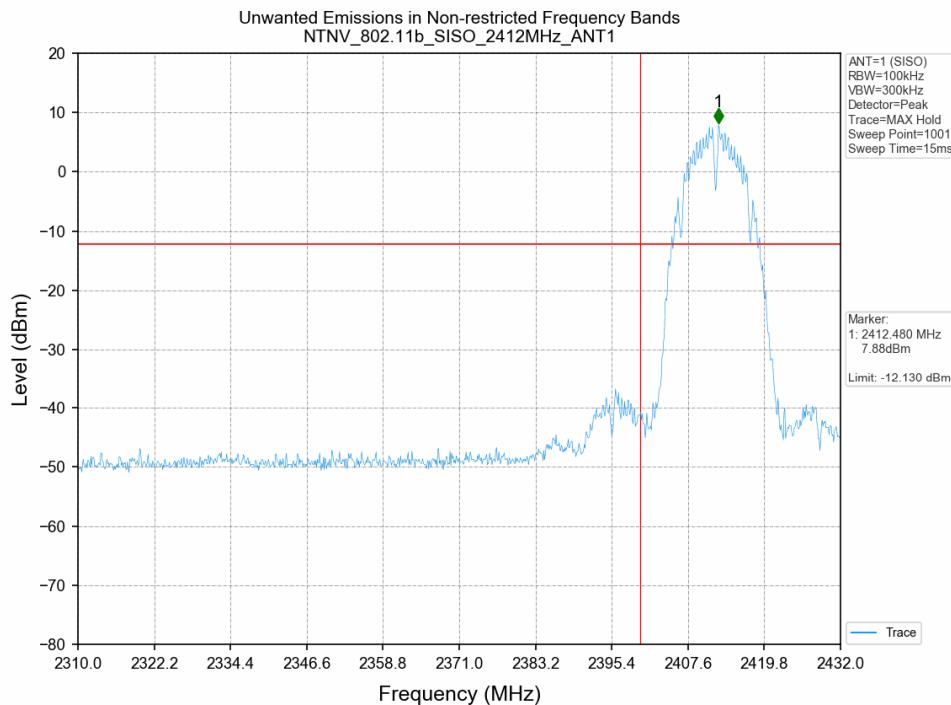
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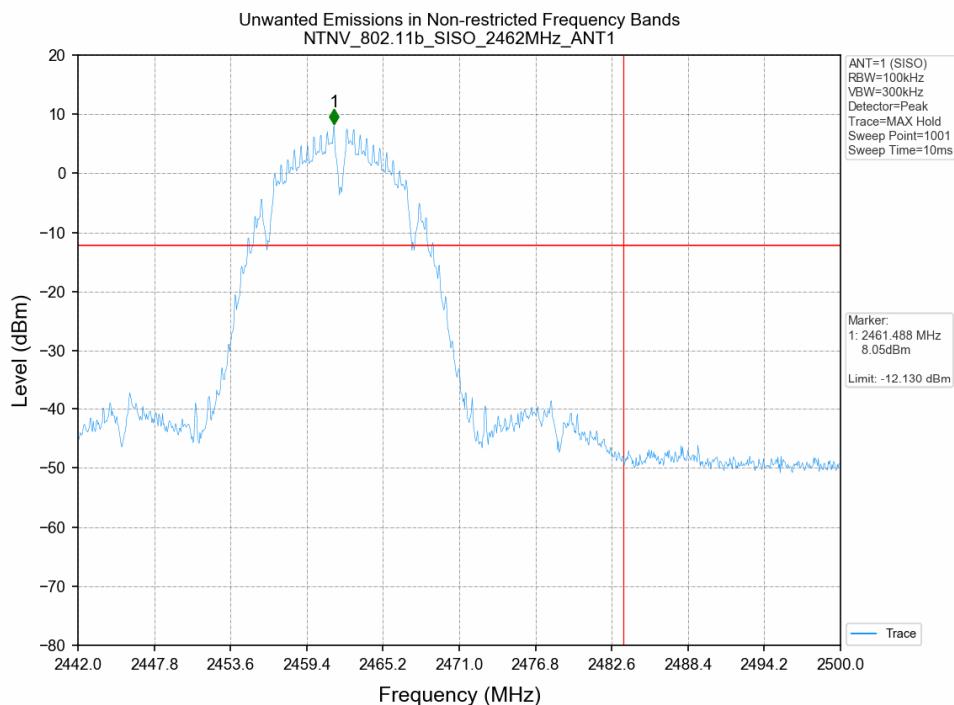
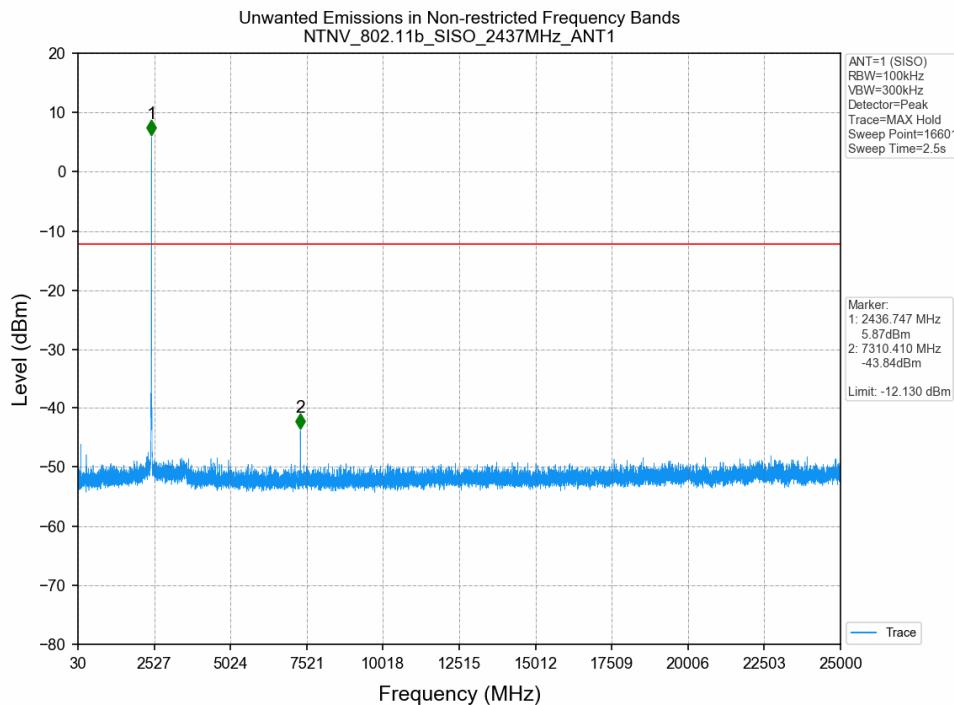
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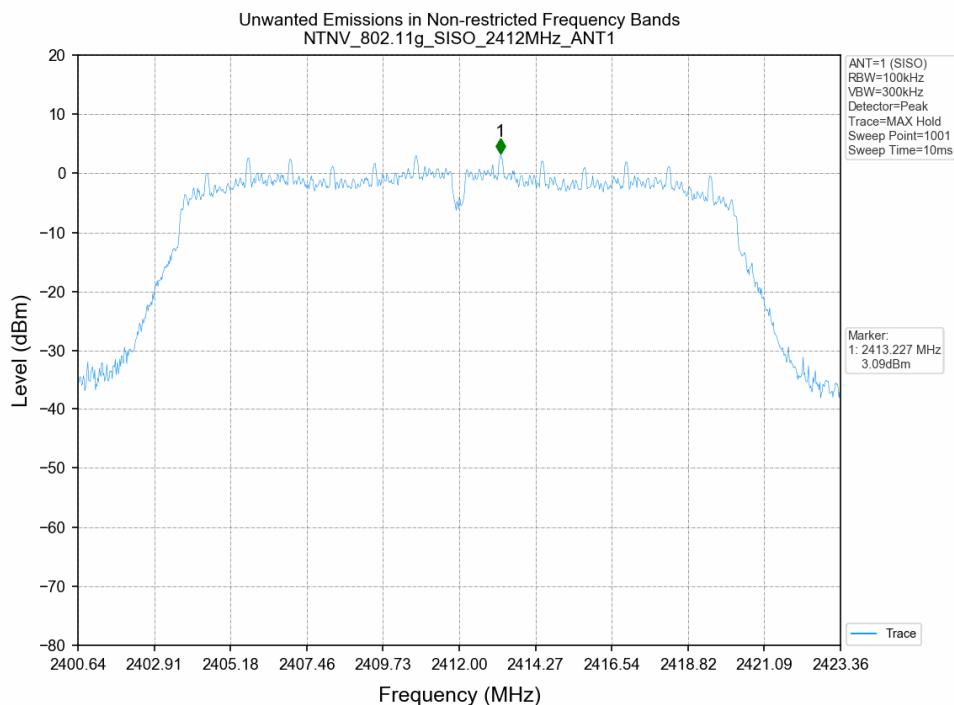
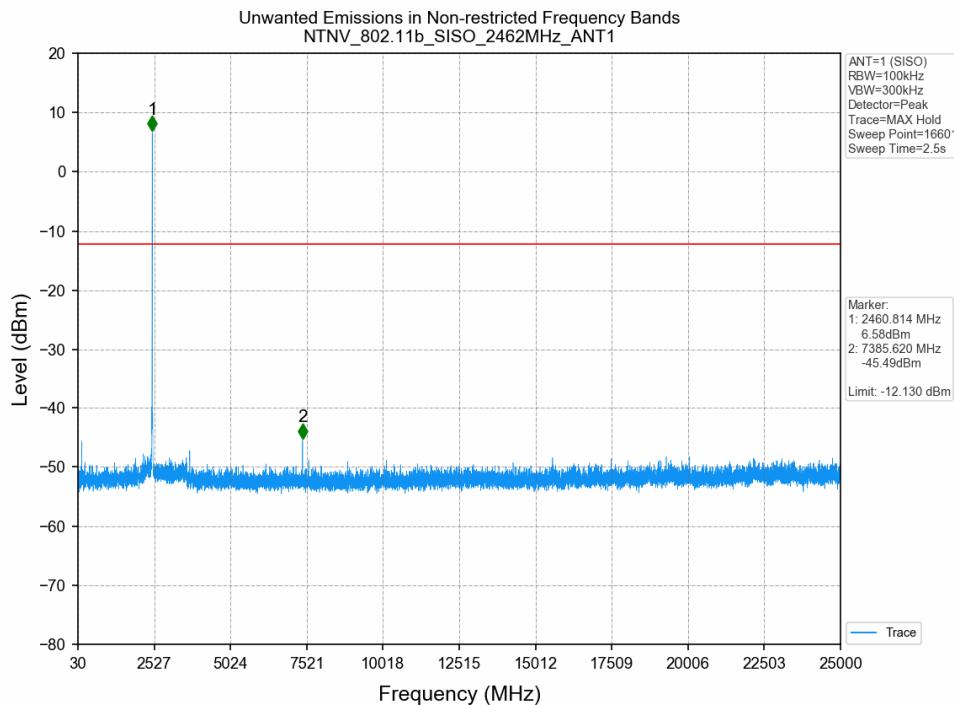
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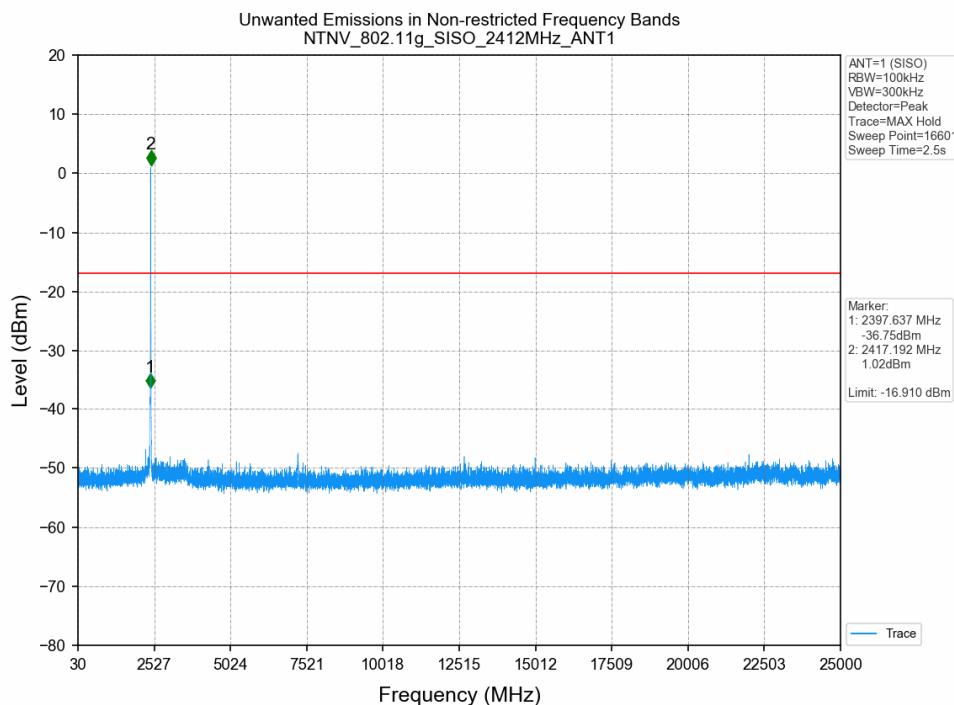
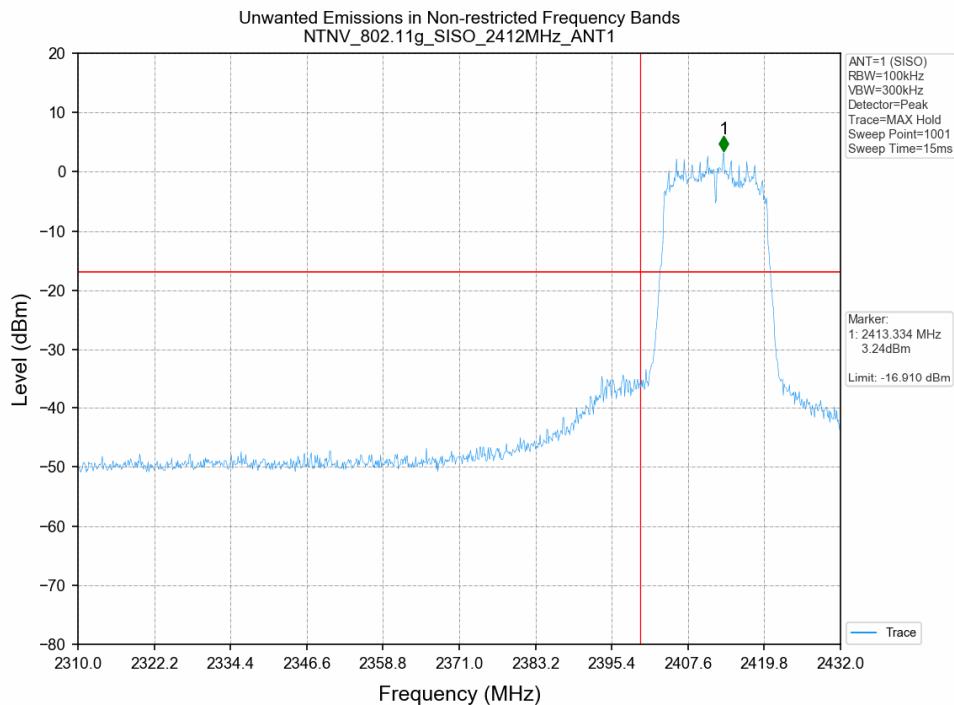
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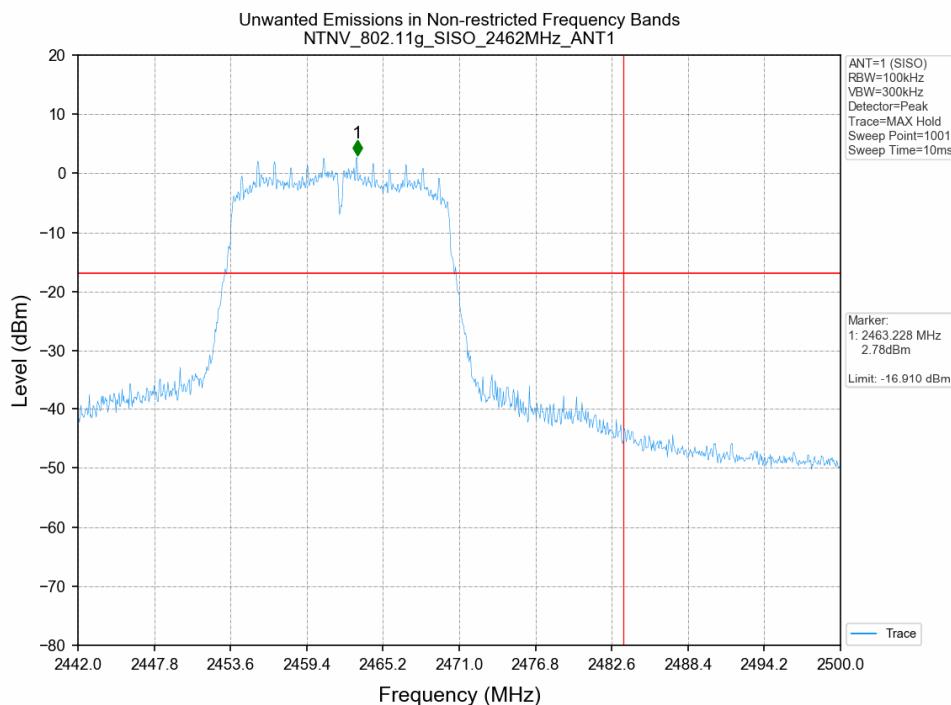
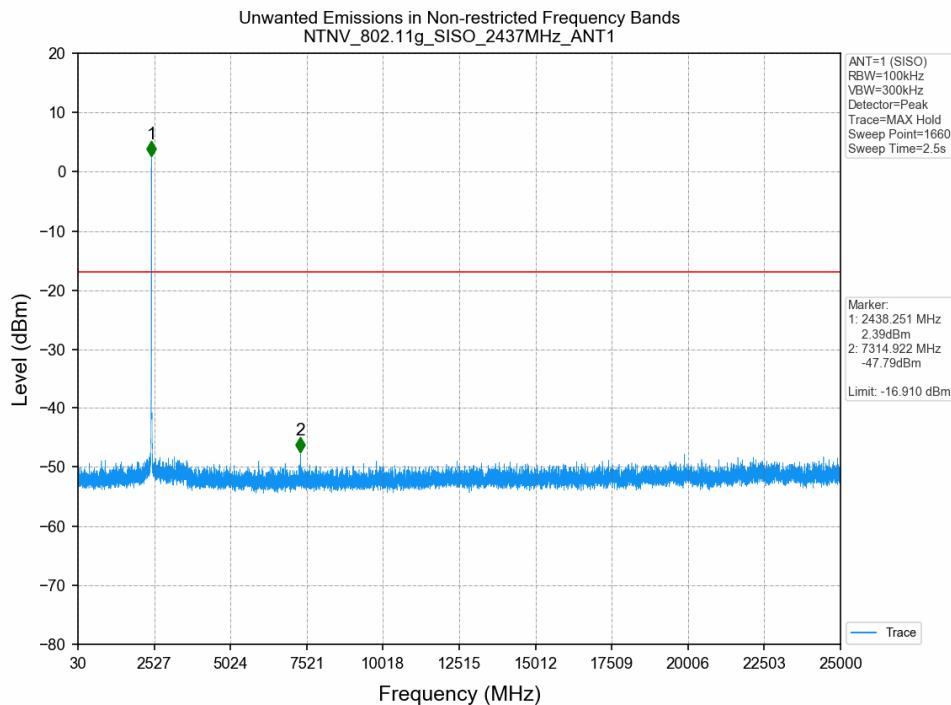
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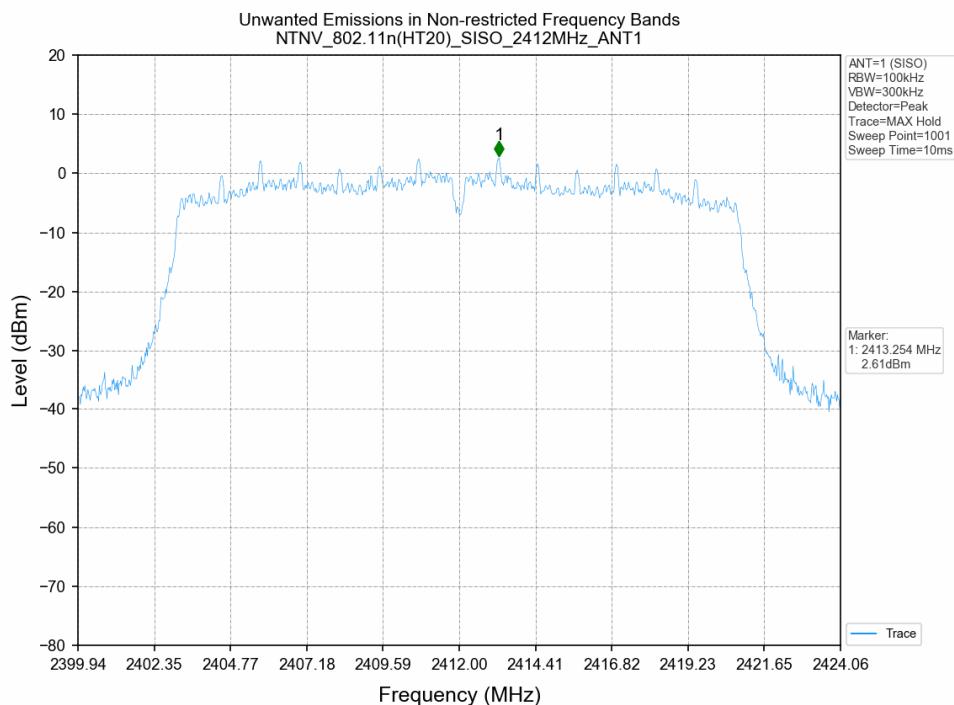
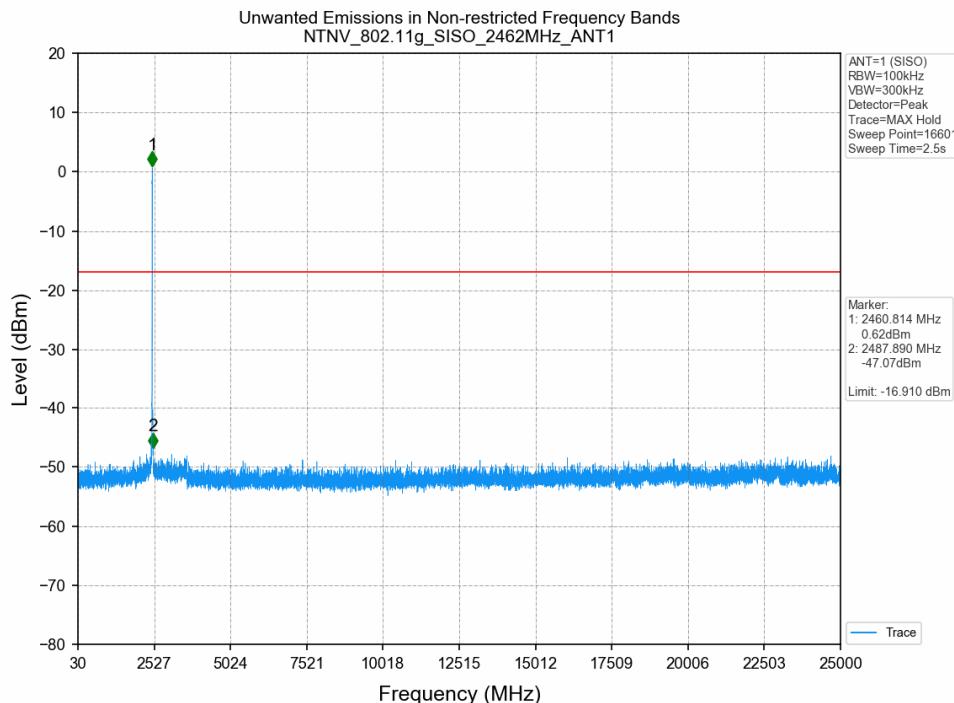
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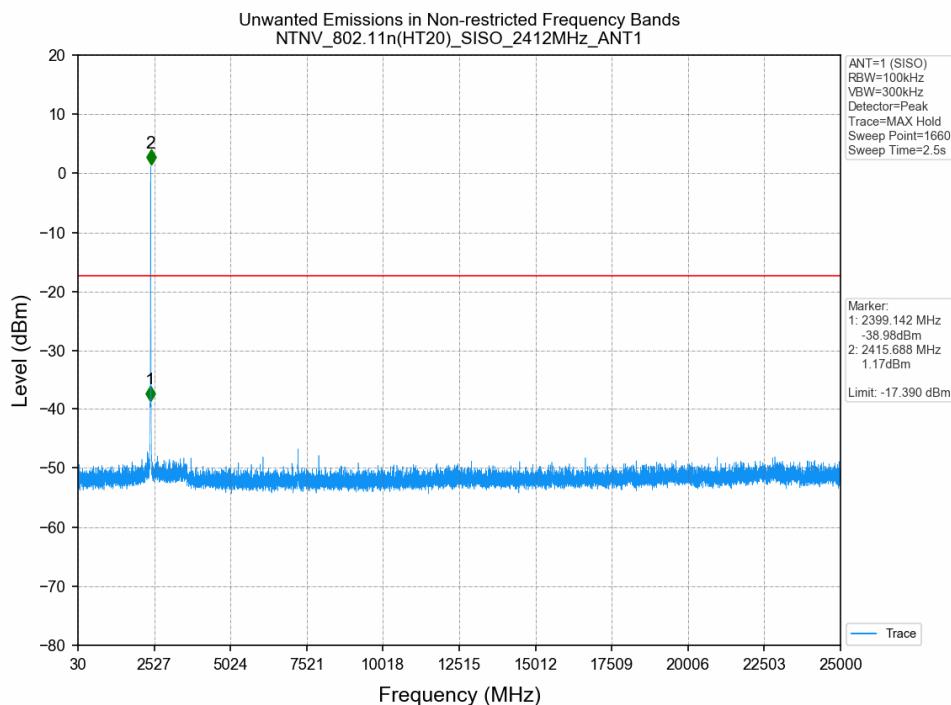
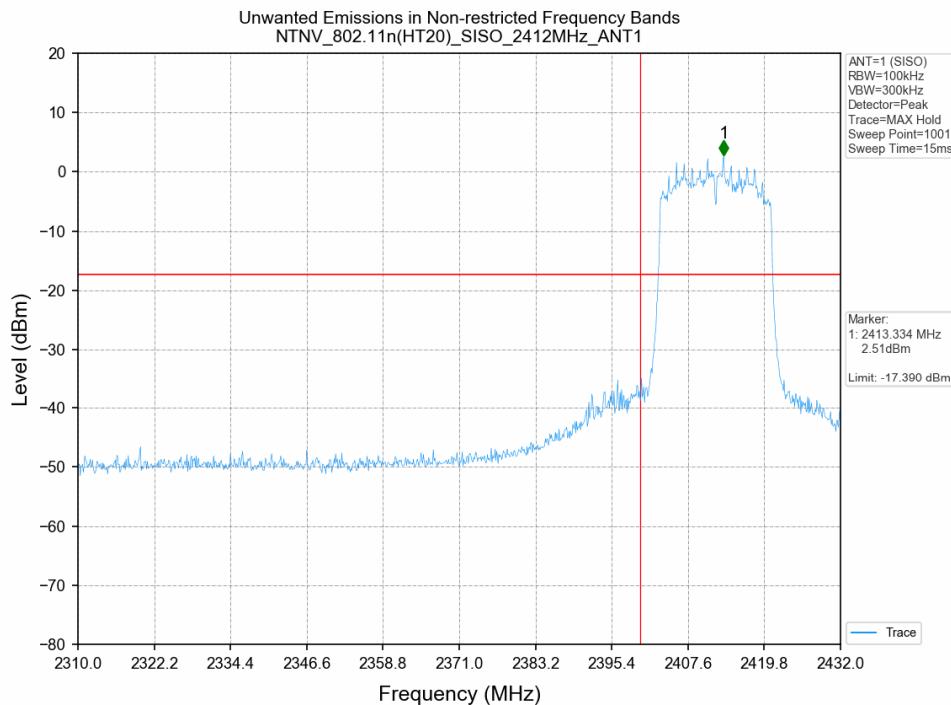
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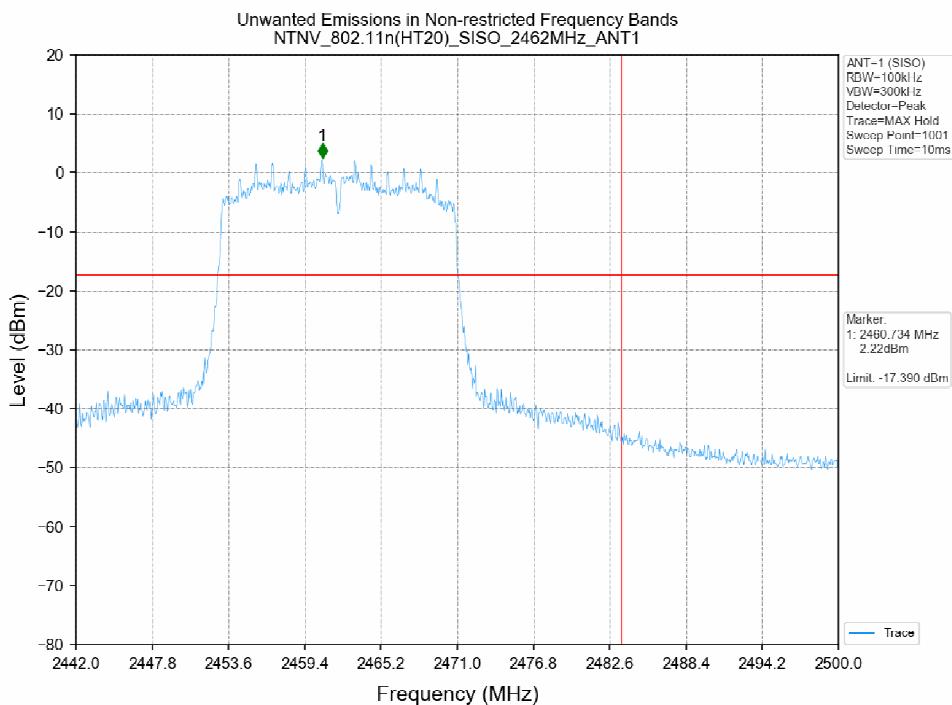
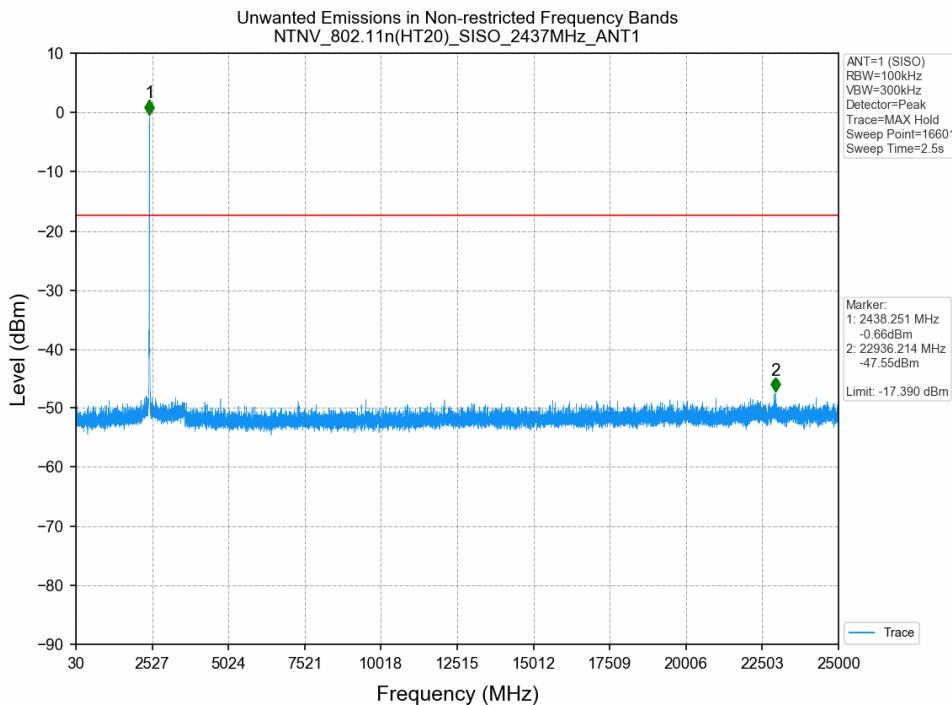
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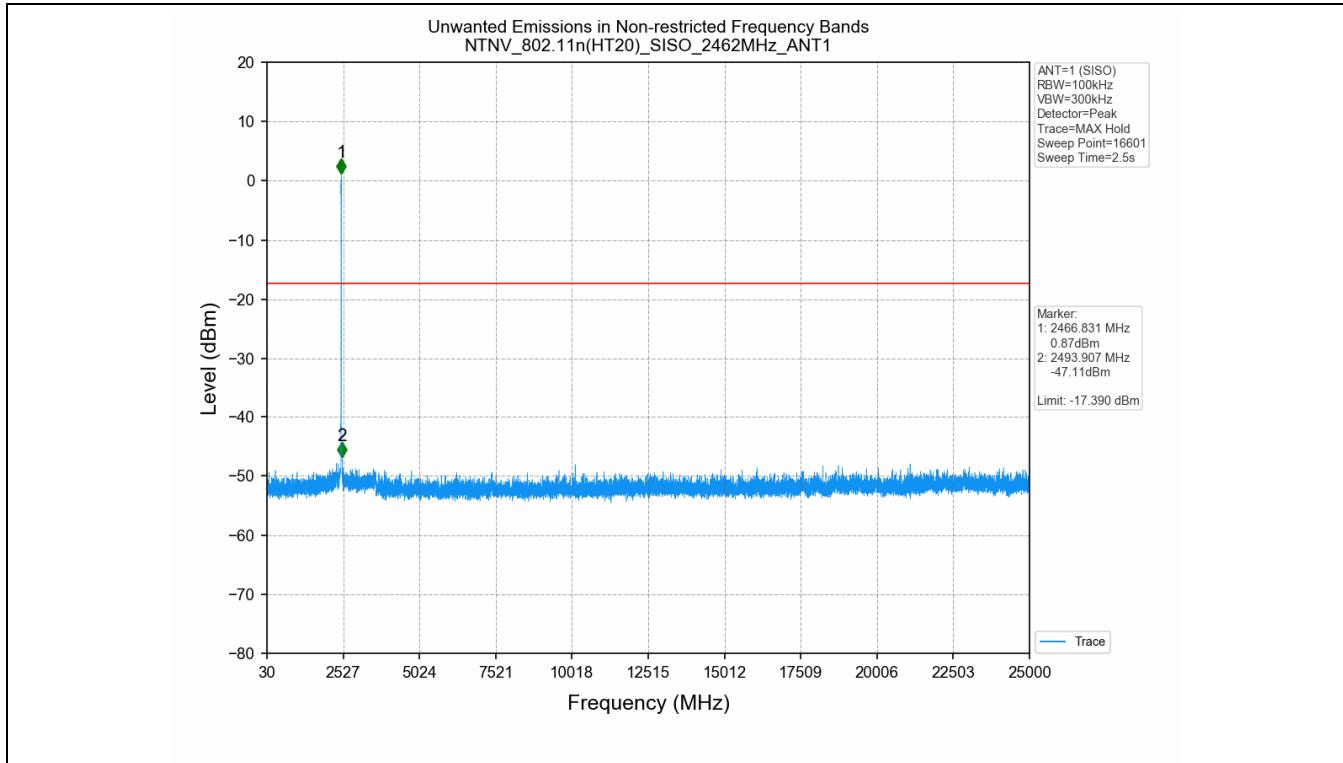
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