



TEST REPORT

Application No.: FYCR2205000162AT(KSCR2205000649AT)
Applicant: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD
Address of Applicant: 88 JIANGLING ROAD, XIXING TOWN, BINJIANG DISTRICT, HANGZHOU CITY
Manufacturer: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD
Address of Manufacturer: 88 JIANGLING ROAD, XIXING TOWN, BINJIANG DISTRICT, HANGZHOU CITY
Factory: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD
Address of Factory: 88 JIANGLING ROAD, XIXING TOWN, BINJIANG DISTRICT, HANGZHOU CITY
Equipment Under Test (EUT):
EUT Name: IP Camera
Model No.: IPC6312LR-AX4W-VG, IPC6312LRa-xxxxWxxxx-yyyyyyyyy-zzz, IPC672LRa-xxxxxxxWxx-yyyyyyyyy-zzz("x" can be 0-9, A-Z, a-z or blank, denoting difference in interface; "y" can be 0-9, A-Z, a-z or blank, denoting performance difference; "z" can be 0-9, A-Z, a-z or blank, denoting target regional)
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2AL8S-0235C5LD
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-05-11
Date of Test: 2022-06-17 to 2022-06-22
Date of Issue: 2022-06-29

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Winkey Wang

Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-06-29		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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2 Test Summary

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

Remark:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model IPC6312LR-AX4W-VG was tested since their differences were the model number, trade name, Color and appearance.

This test report (Ref. No.: FYCR220500016201) is only valid with the original test report (Ref. No.: KSEM210700110201).

Compared with the original report, this report just changed the lens drive chip, single-chip microcomputer chip and changed the warning light panel from double-sided panel to single panel.

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

Therefore in this report Conducted Peak Output Power, Radiated Spurious Emissions Below 1GHz, Radiated Spurious Emissions Above 1GHz were fully retested and shown the data in this report, other tests data please refer to original report KSEM210700110201.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 12V 1.5A
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	5.5dBi(Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	DVE	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	$\pm 0.8\text{dB}$
Minimum 6dB Bandwidth	$\pm 0.3\%$
Radiated Emissions which fall in the restricted bands	$\pm 4.4\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 3.1\text{dB}$ (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	$\pm 4.4\text{dB}$ (Above 1GHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.5 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

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

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Peak Output Power

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12

Radiated Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
MXE EMI receiver	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12



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Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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6 Radio Spectrum Matter Test Results

6.1 Conducted Average Output Power

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

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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
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

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

Humidity: 63.6 % RH

Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

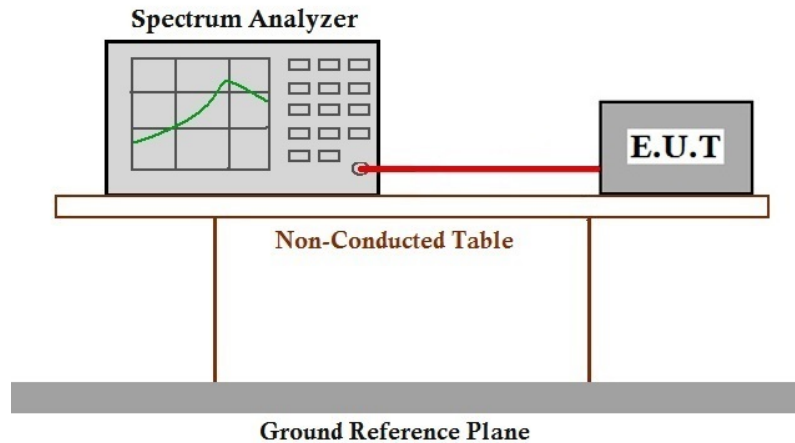
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of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



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6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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6.2 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

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

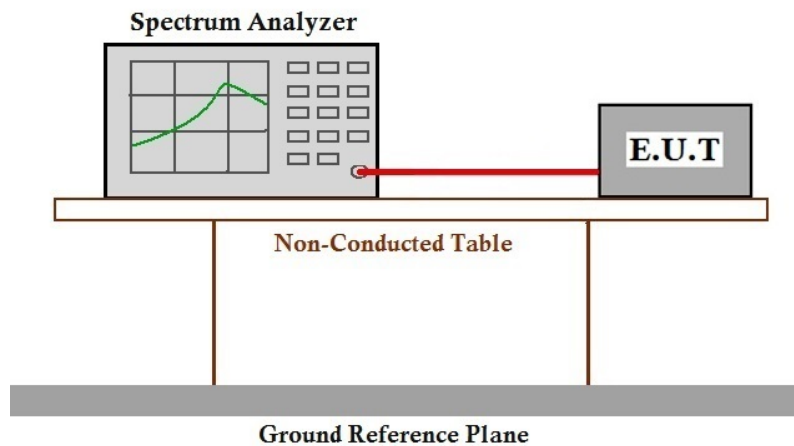
Humidity: 44.0 % RH

Atmospheric Pressure: 1020 mbar

6.2.1 Test Mode Description

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

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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6.3 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

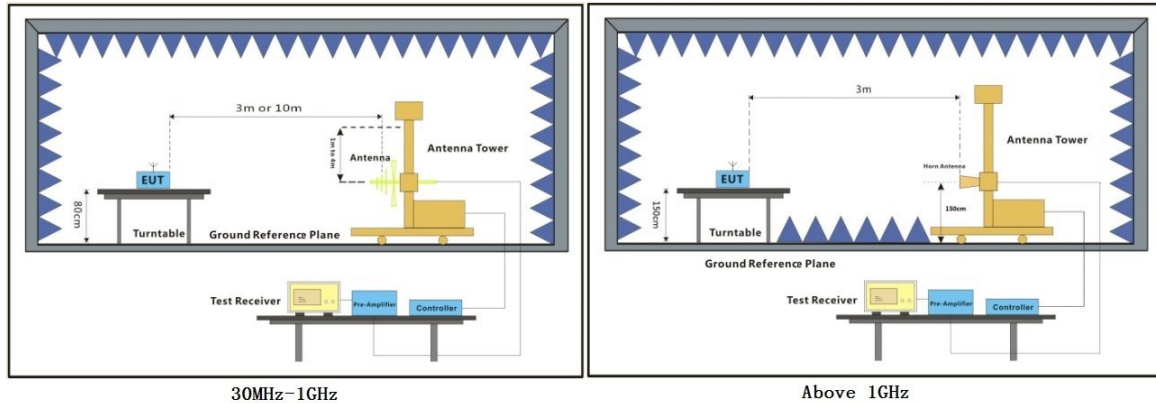
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of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



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6.3.3 Test Setup Diagram



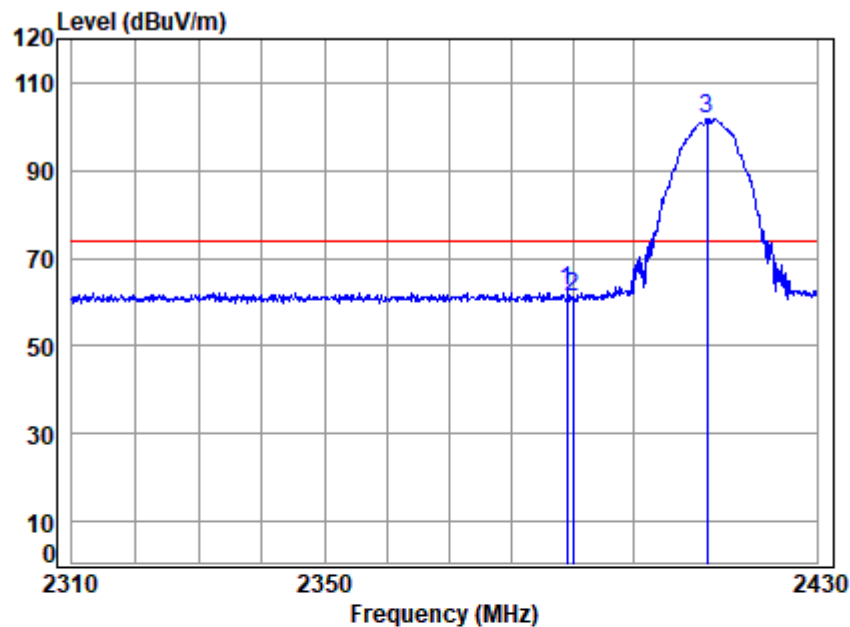
6.3.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- 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.

Test Mode: 00; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



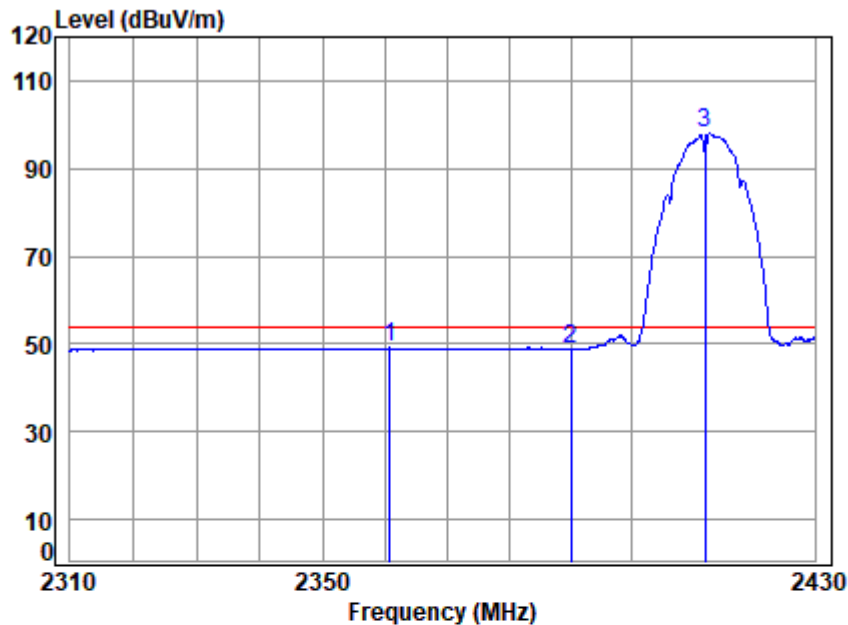
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.121	4.16	28.88	0.00	29.26	62.30	74.00	-11.70 peak
2	2390.000	4.17	28.88	0.00	27.88	60.93	74.00	-13.07 peak
3	2412.000	4.19	28.92	0.00	68.79	101.90	74.00	27.90 peak



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Test Mode: 00; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



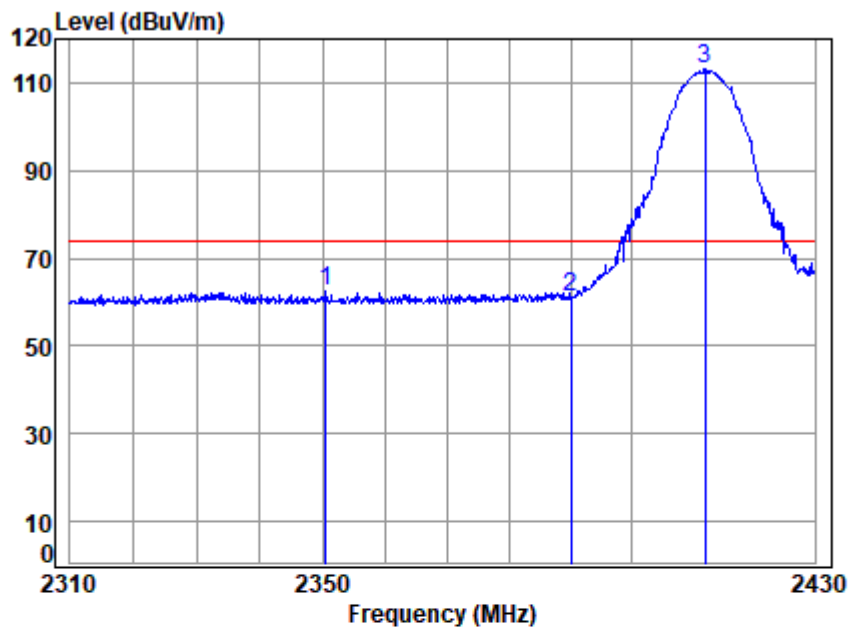
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2360.737	4.13	28.82	0.00	16.27	49.22	54.00	-4.78 Average
2	2390.000	4.17	28.88	0.00	15.92	48.97	54.00	-5.03 Average
3	2412.000	4.19	28.92	0.00	65.00	98.11	54.00	44.11 Average



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Test Mode: 00; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



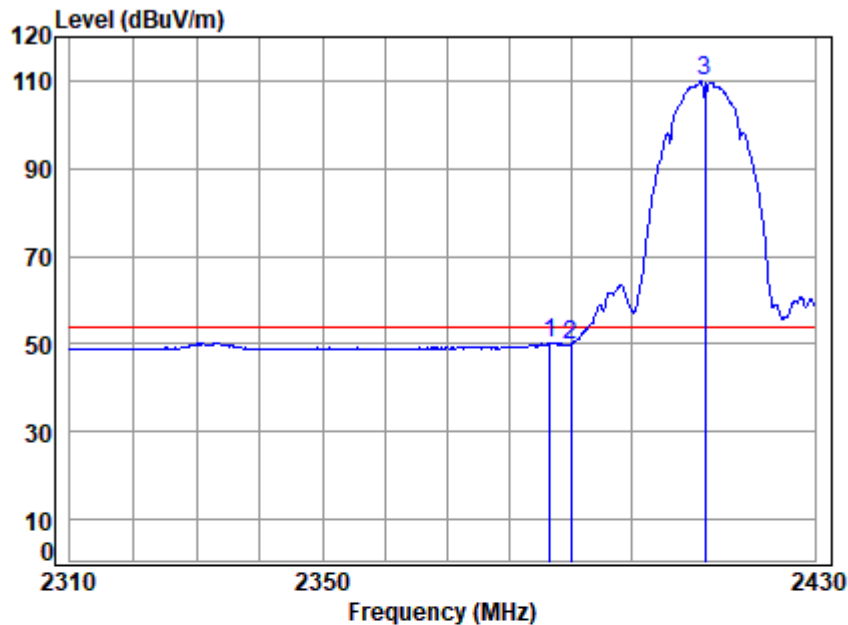
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2350.596	4.12	28.80	0.00	29.67	62.59	74.00	-11.41 Peak
2	2390.000	4.17	28.88	0.00	27.94	60.99	74.00	-13.01 Peak
3	2412.000	4.19	28.92	0.00	79.93	113.04	74.00	39.04 Peak



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Test Mode: 00; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.703	4.16	28.87	0.00	17.27	50.30	54.00	-3.70 Average
2	2390.000	4.17	28.88	0.00	16.80	49.85	54.00	-4.15 Average
3	2412.000	4.19	28.92	0.00	76.74	109.85	54.00	55.85 Average

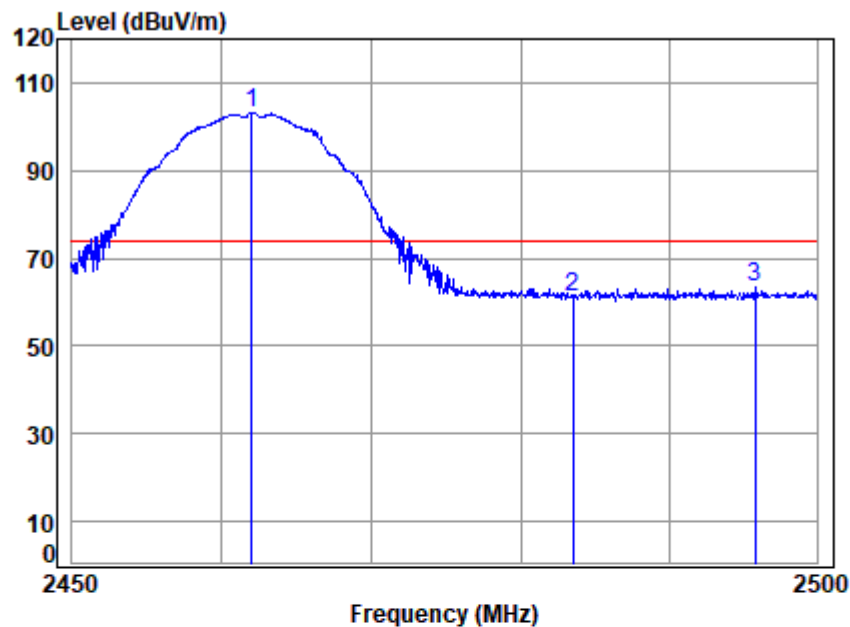


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Test Mode: 00; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

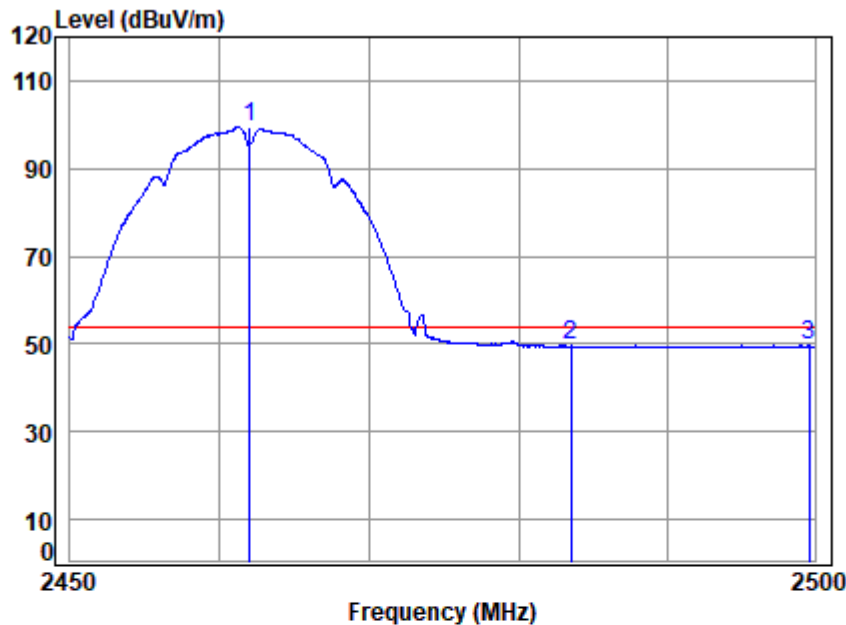
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	69.98	103.24	74.00	29.24 peak
2	2483.500	4.27	29.07	0.00	27.97	61.31	74.00	-12.69 peak
3	2495.812	4.28	29.09	0.00	29.85	63.22	74.00	-10.78 peak



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Test Mode: 00; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



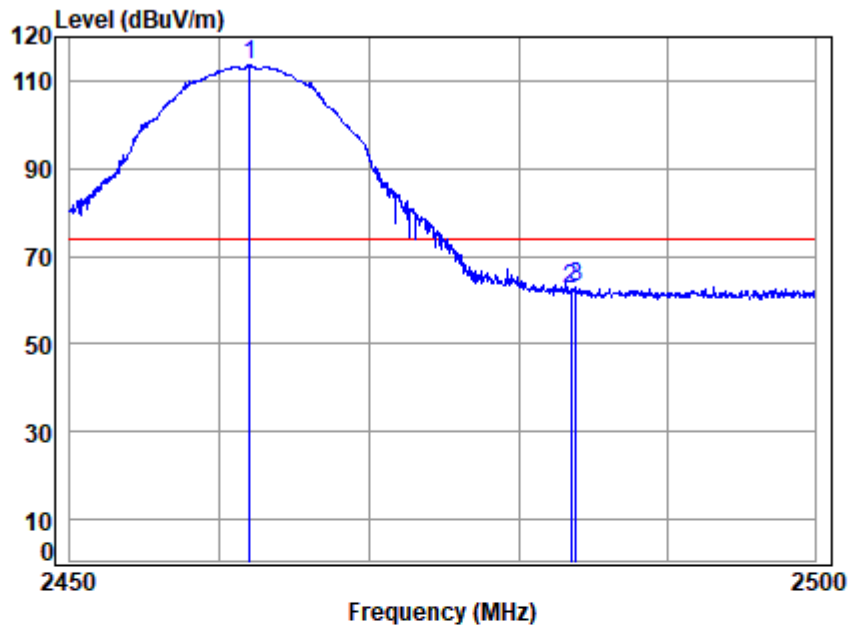
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	66.10	99.36	54.00	45.36 Average
2	2483.500	4.27	29.07	0.00	16.22	49.56	54.00	-4.44 Average
3	2499.646	4.28	29.10	0.00	16.26	49.64	54.00	-4.36 Average



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Test Mode: 00; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

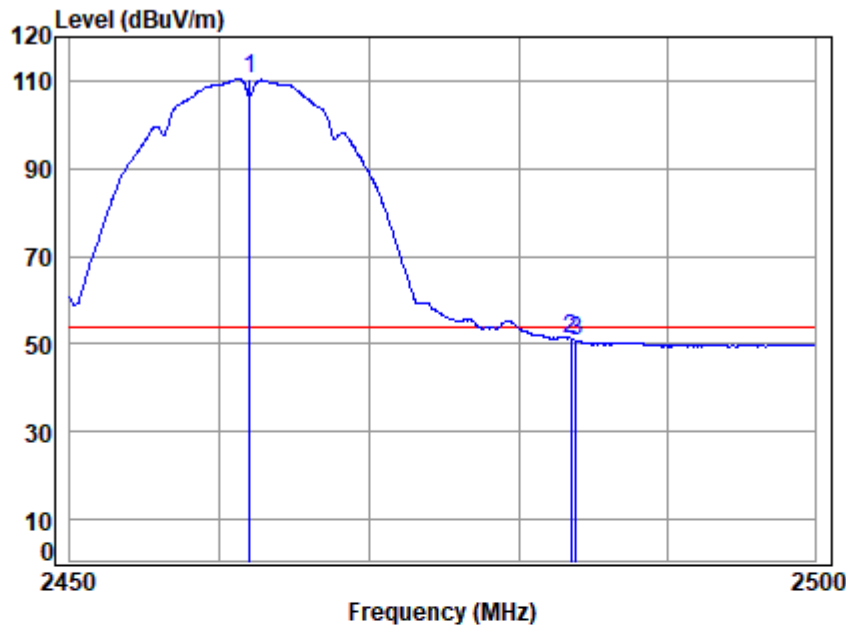
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000	4.24	29.02	0.00	80.25	113.51	74.00	39.51 Peak
2 2483.500	4.27	29.07	0.00	29.15	62.49	74.00	-11.51 Peak
3 2483.840	4.27	29.07	0.00	29.84	63.18	74.00	-10.82 Peak



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Test Mode: 00; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

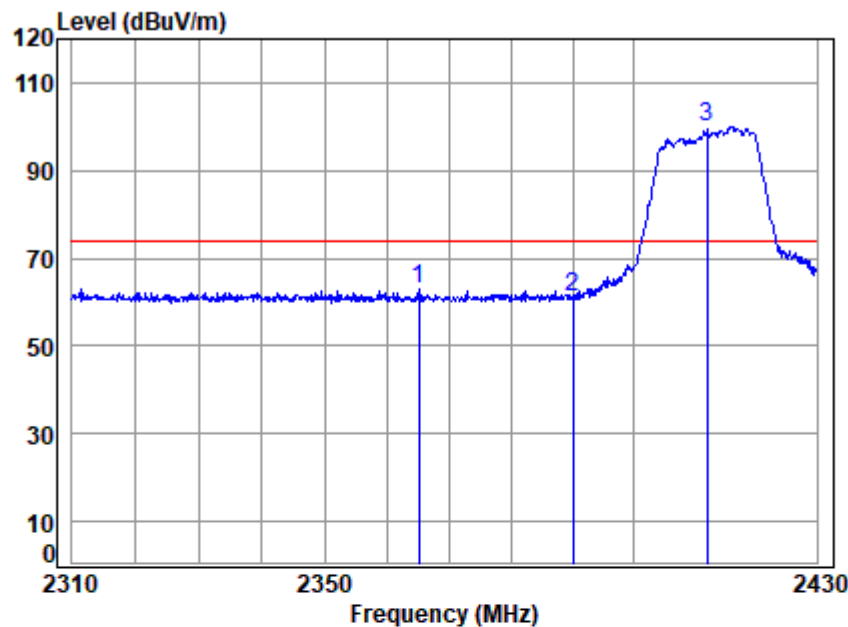
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	77.31	110.57	54.00	56.57 Average
2	2483.500	4.27	29.07	0.00	17.87	51.21	54.00	-2.79 Average
3	2483.890	4.27	29.07	0.00	17.52	50.86	54.00	-3.14 Average



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Test Mode: 00; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



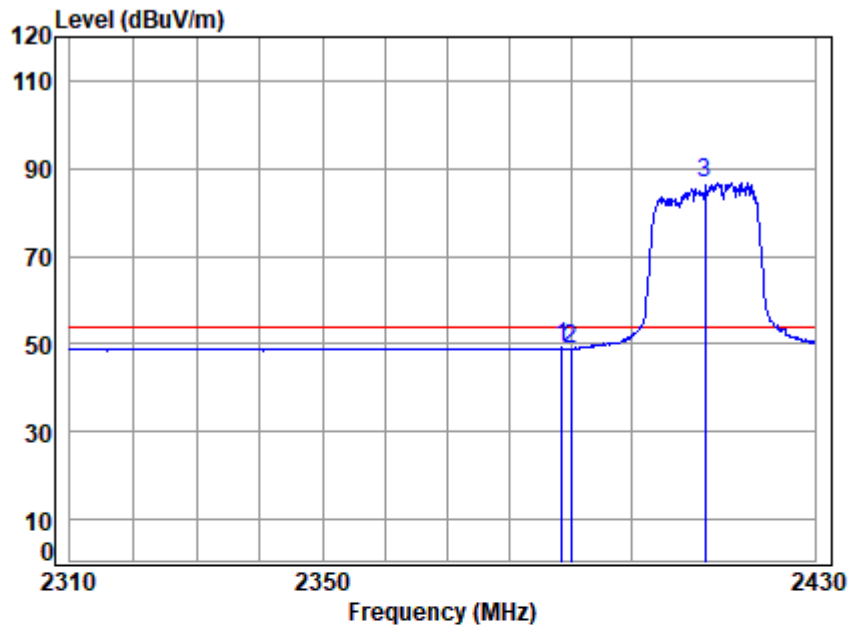
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2365.164	4.14	28.83	0.00	30.18	63.15	74.00	-10.85 peak
2	2390.000	4.17	28.88	0.00	28.16	61.21	74.00	-12.79 peak
3	2412.000	4.19	28.92	0.00	67.00	100.11	74.00	26.11 peak



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Test Mode: 00; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



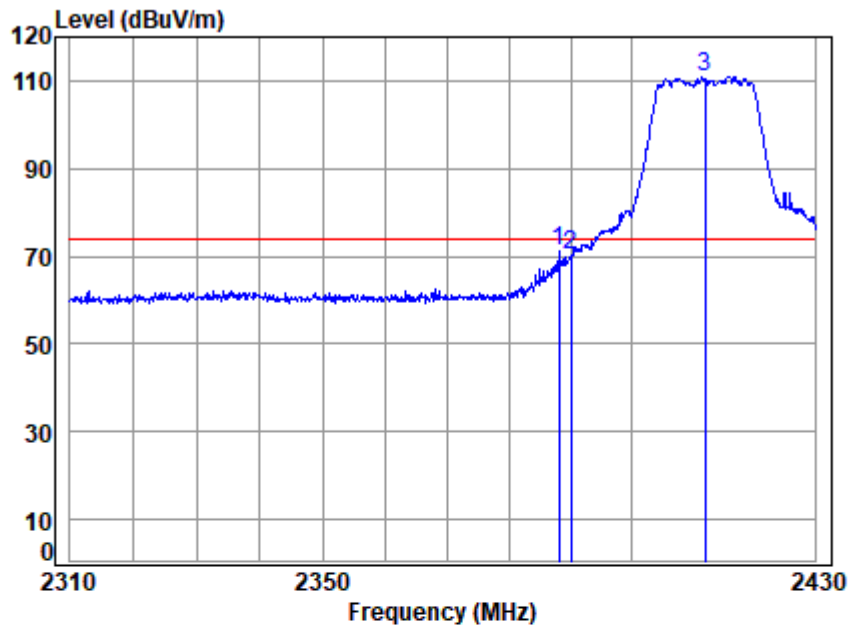
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.637	4.16	28.88	0.00	16.15	49.19	54.00	-4.81 Average
2	2390.000	4.17	28.88	0.00	15.90	48.95	54.00	-5.05 Average
3	2412.000	4.19	28.92	0.00	53.74	86.85	54.00	32.85 Average



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Test Mode: 00; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.032	4.16	28.87	0.00	38.08	71.11	74.00	-2.89 Peak
2	2390.000	4.17	28.88	0.00	37.44	70.49	74.00	-3.51 Peak
3	2412.000	4.19	28.92	0.00	77.80	110.91	74.00	36.91 Peak

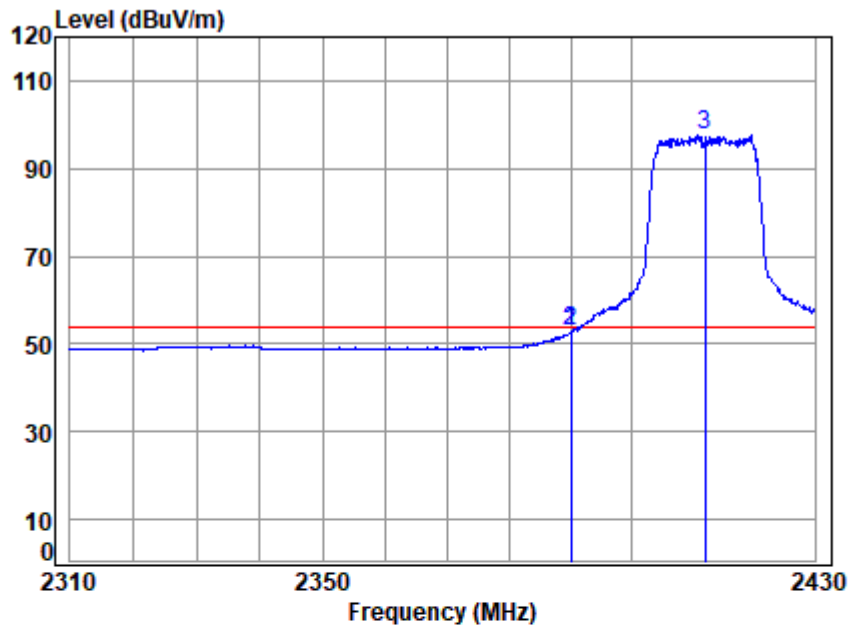


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Test Mode: 00; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



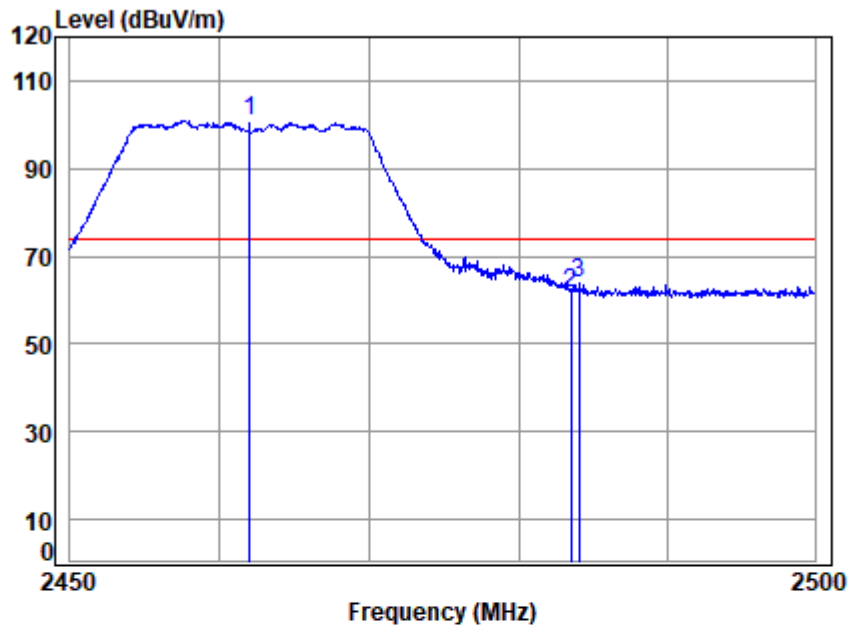
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	4.17	28.88	0.00	19.82	52.87	54.00	-1.13 Average
2	2390.000	4.17	28.88	0.00	19.82	52.87	54.00	-1.13 Average
3	2412.000	4.19	28.92	0.00	64.49	97.60	54.00	43.60 Average



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Test Mode: 00; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	67.70	100.96	74.00	26.96 peak
2	2483.500	4.27	29.07	0.00	28.47	61.81	74.00	-12.19 peak
3	2484.091	4.27	29.07	0.00	30.41	63.75	74.00	-10.25 peak

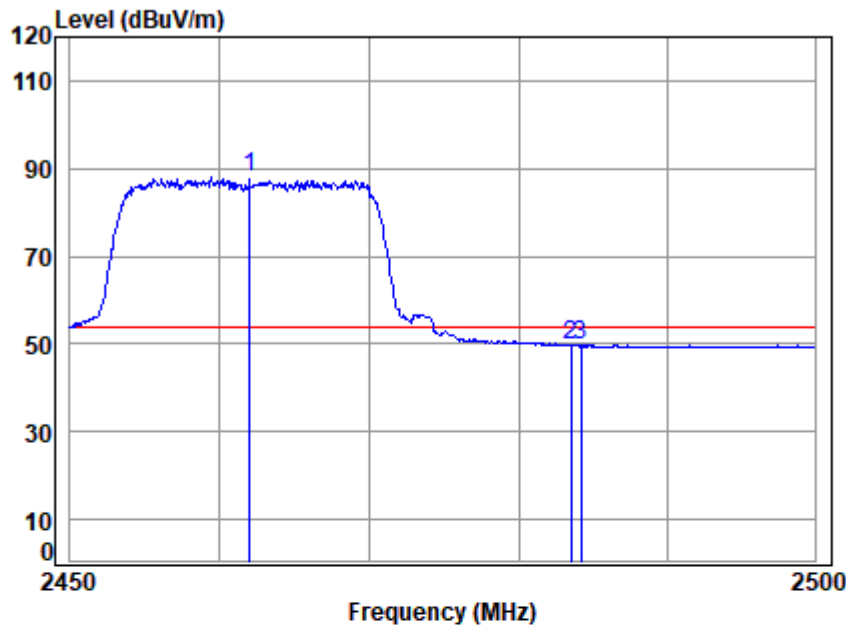


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Test Mode: 00; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

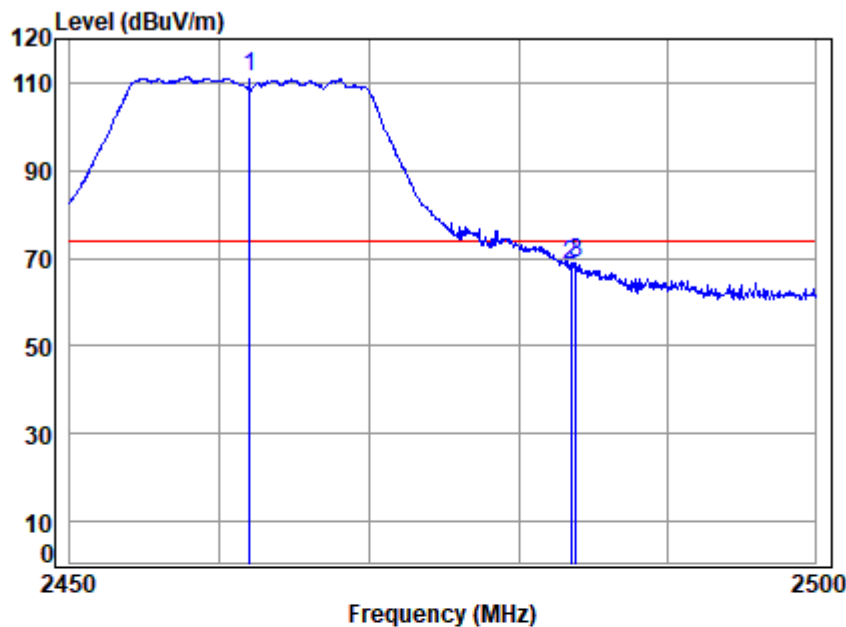
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	54.64	87.90	54.00	33.90 Average
2	2483.500	4.27	29.07	0.00	16.35	49.69	54.00	-4.31 Average
3	2484.191	4.27	29.07	0.00	16.38	49.72	54.00	-4.28 Average



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Test Mode: 00; Polarization: Vertical; Modulation: g; bandwidth: 20MHz; Channel: High



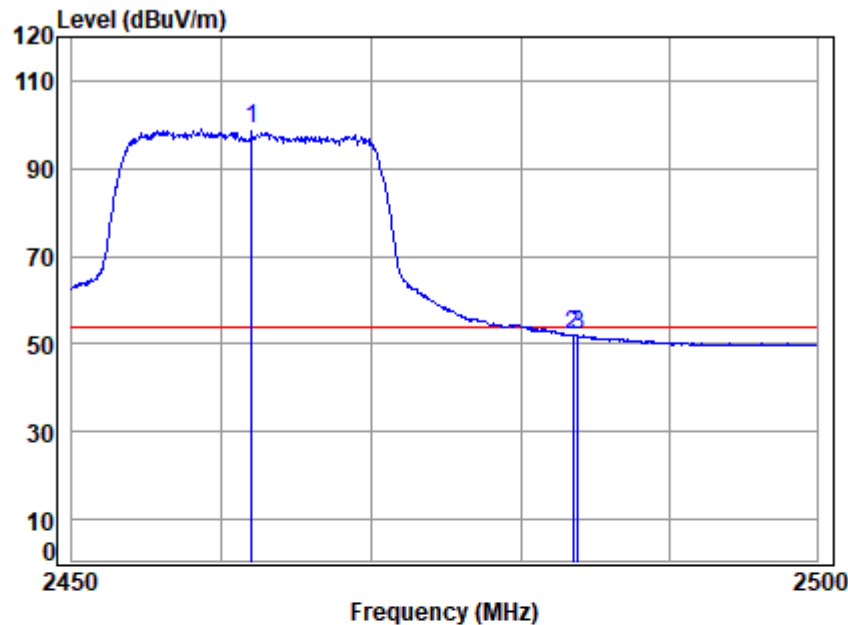
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	77.97	111.23	74.00	37.23 Peak
2	2483.500	4.27	29.07	0.00	35.07	68.41	74.00	-5.59 Peak
3	2483.840	4.27	29.07	0.00	35.59	68.93	74.00	-5.07 Peak



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Test Mode: 00; Polarization: Vertical; Modulation: g; bandwidth: 20MHz; Channel: High



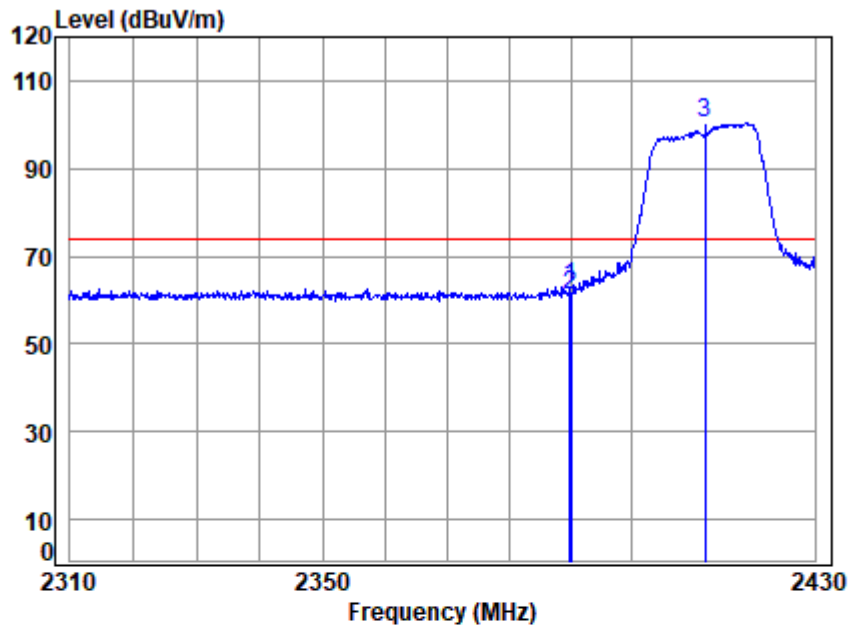
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	65.53	98.79	54.00	44.79 Average
2	2483.500	4.27	29.07	0.00	18.89	52.23	54.00	-1.77 Average
3	2483.840	4.27	29.07	0.00	18.71	52.05	54.00	-1.95 Average



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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.847	4.16	28.88	0.00	30.00	63.04	74.00	-10.96 peak
2	2390.000	4.17	28.88	0.00	27.96	61.01	74.00	-12.99 peak
3	2412.000	4.19	28.92	0.00	67.28	100.39	74.00	26.39 peak

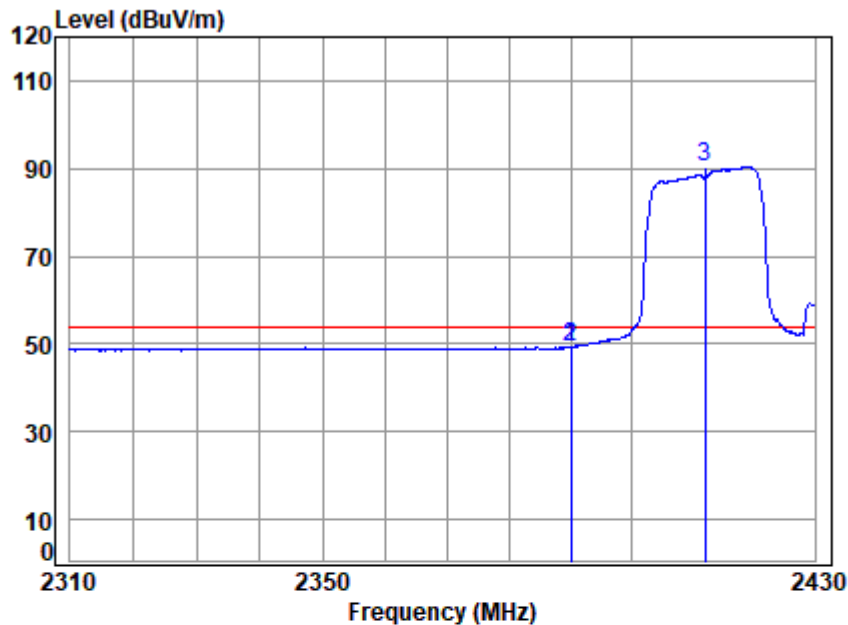


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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

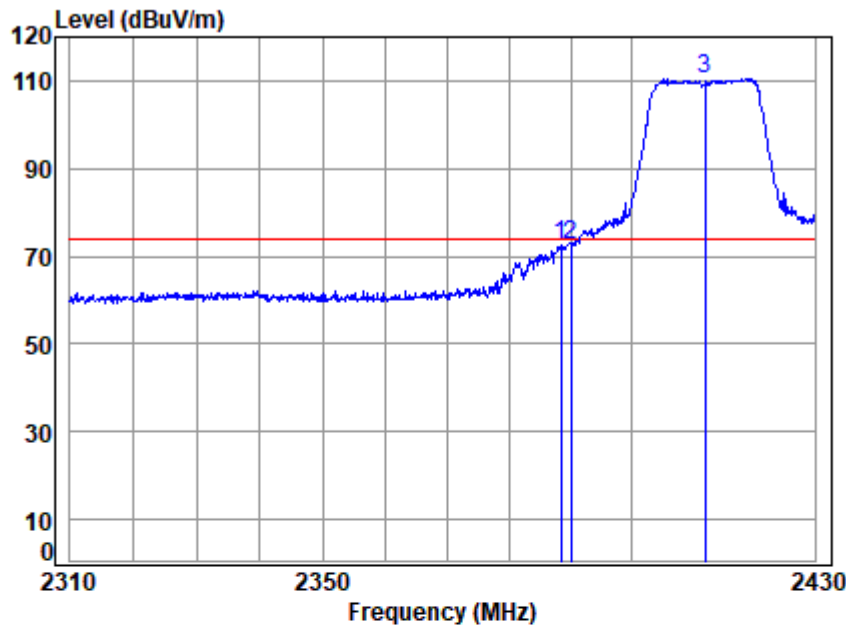
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	4.17	28.88	0.00	16.22	49.27	54.00	-4.73 Average
2	2390.000	4.17	28.88	0.00	16.22	49.27	54.00	-4.73 Average
3	2412.000	4.19	28.92	0.00	57.42	90.53	54.00	36.53 Average



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Test Mode: 00; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.395	4.16	28.87	0.00	39.33	72.36	74.00	-1.64 Peak
2	2390.000	4.17	28.88	0.00	39.41	72.46	74.00	-1.54 Peak
3	2412.000	4.19	28.92	0.00	77.41	110.52	74.00	36.52 Peak

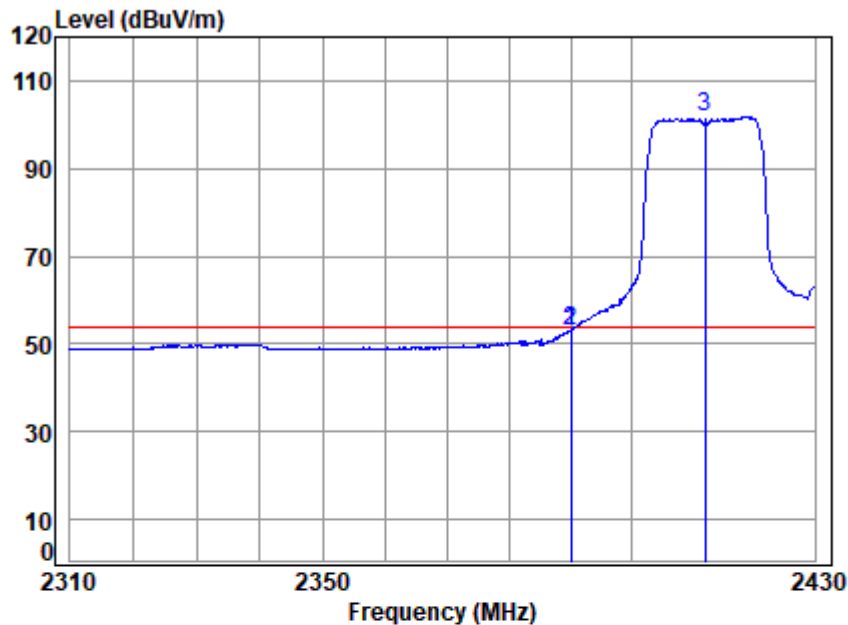


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Test Mode: 00; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



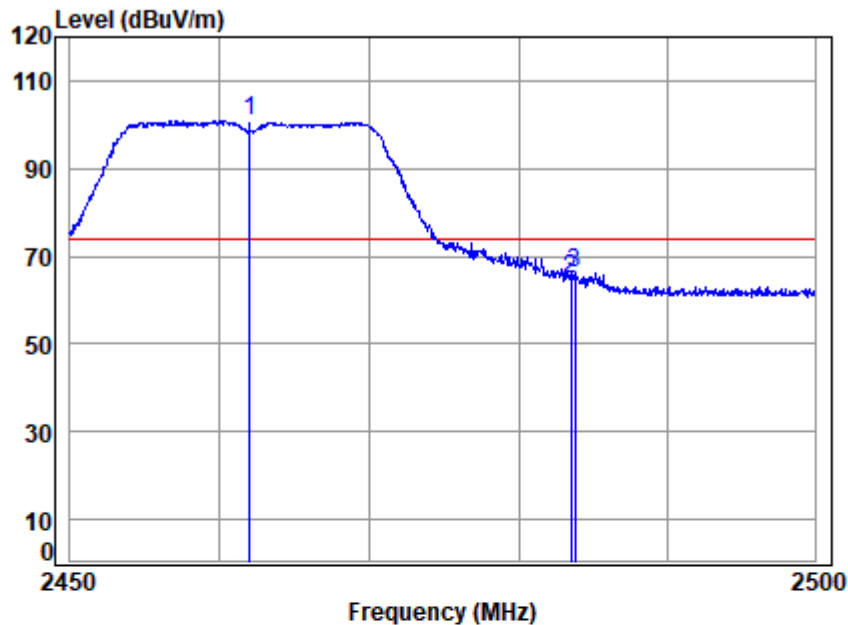
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	4.17	28.88	0.00	19.90	52.95	54.00	-1.05 Average
2	2390.000	4.17	28.88	0.00	19.91	52.96	54.00	-1.04 Average
3	2412.000	4.19	28.92	0.00	68.73	101.84	54.00	47.84 Average



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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.000	4.24	29.02	0.00	67.50	100.76	74.00	26.76 peak
2	2483.500	4.27	29.07	0.00	31.39	64.73	74.00	-9.27 peak
3	2483.790	4.27	29.07	0.00	32.78	66.12	74.00	-7.88 peak

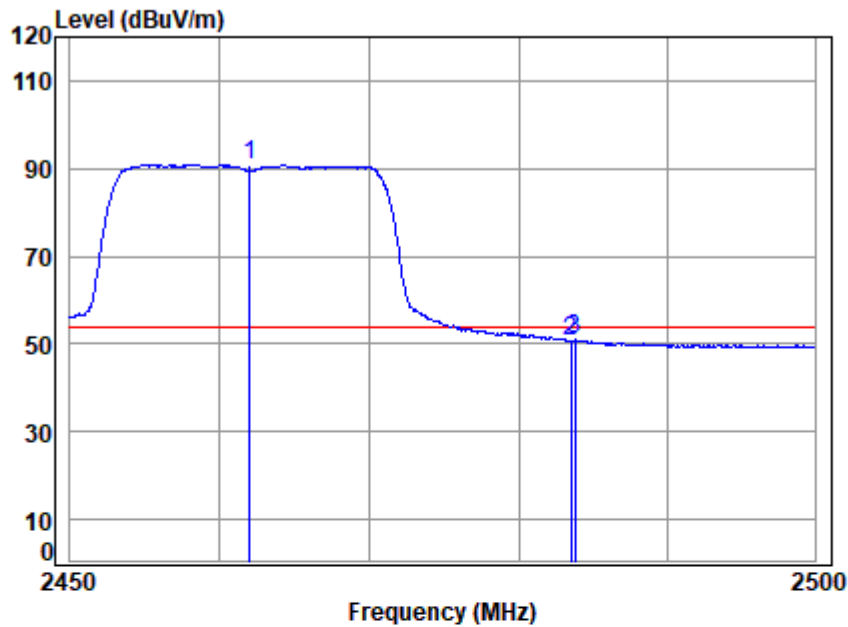


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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

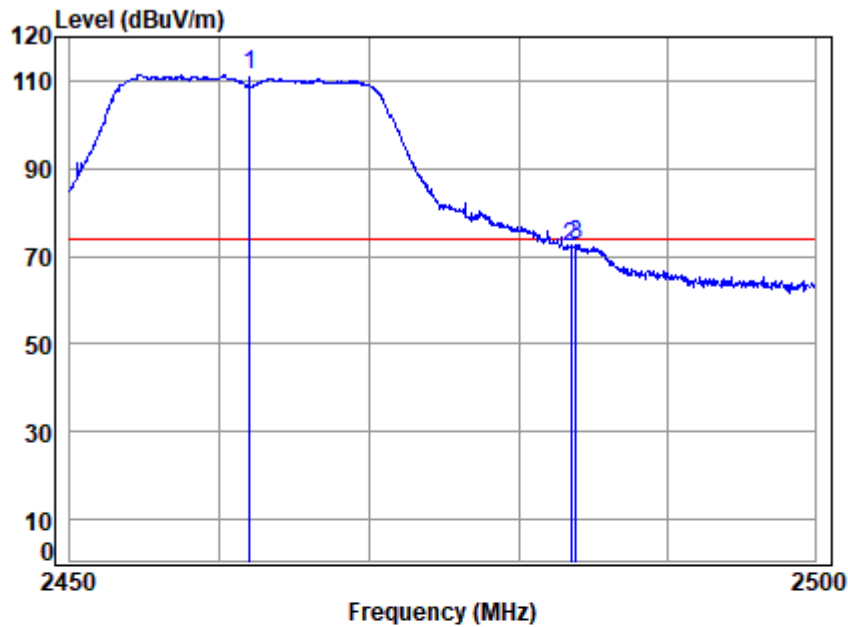
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000	4.24	29.02	0.00	57.65	90.91	54.00	36.91 Average
2 2483.500	4.27	29.07	0.00	17.41	50.75	54.00	-3.25 Average
3 2483.790	4.27	29.07	0.00	17.58	50.92	54.00	-3.08 Average



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Test Mode: 00; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

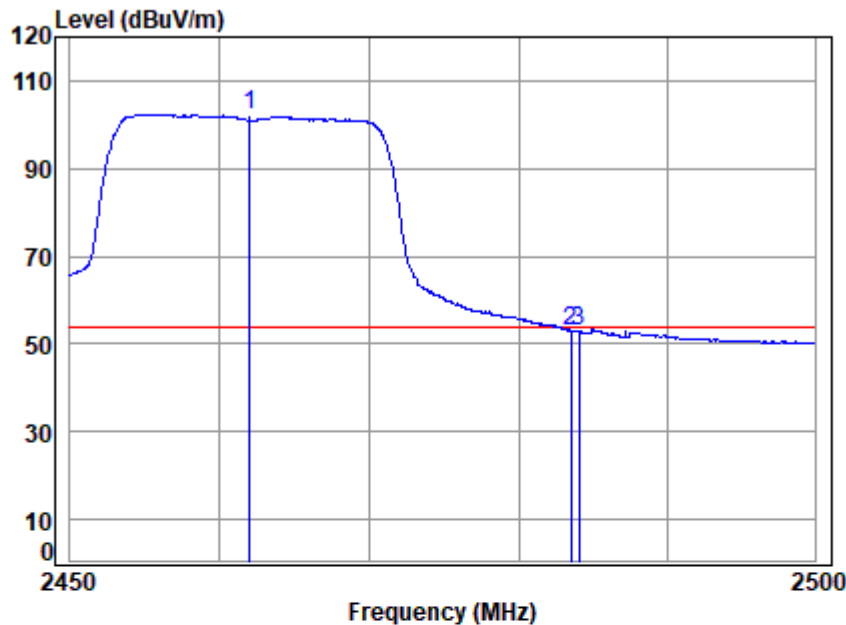
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 2462.000	4.24	29.02	0.00	78.13	111.39	74.00	37.39	Peak
2 2483.500	4.27	29.07	0.00	38.58	71.92	74.00	-2.08	Peak
3 2483.840	4.27	29.07	0.00	39.38	72.72	74.00	-1.28	Peak



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Test Mode: 00; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



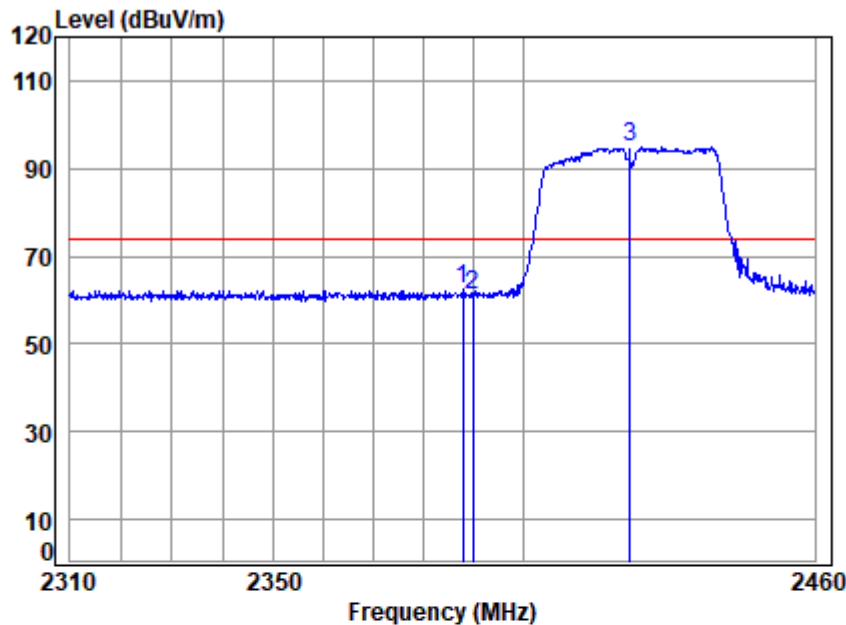
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000	4.24	29.02	0.00	69.12	102.38	54.00	48.38 Average
2 2483.500	4.27	29.07	0.00	19.64	52.98	54.00	-1.02 Average
3 2484.041	4.27	29.07	0.00	19.53	52.87	54.00	-1.13 Average



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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.873	4.16	28.87	0.00	29.35	62.38	74.00	-11.62 peak
2	2390.000	4.17	28.88	0.00	28.23	61.28	74.00	-12.72 peak
3	2422.000	4.20	28.94	0.00	61.68	94.82	74.00	20.82 peak

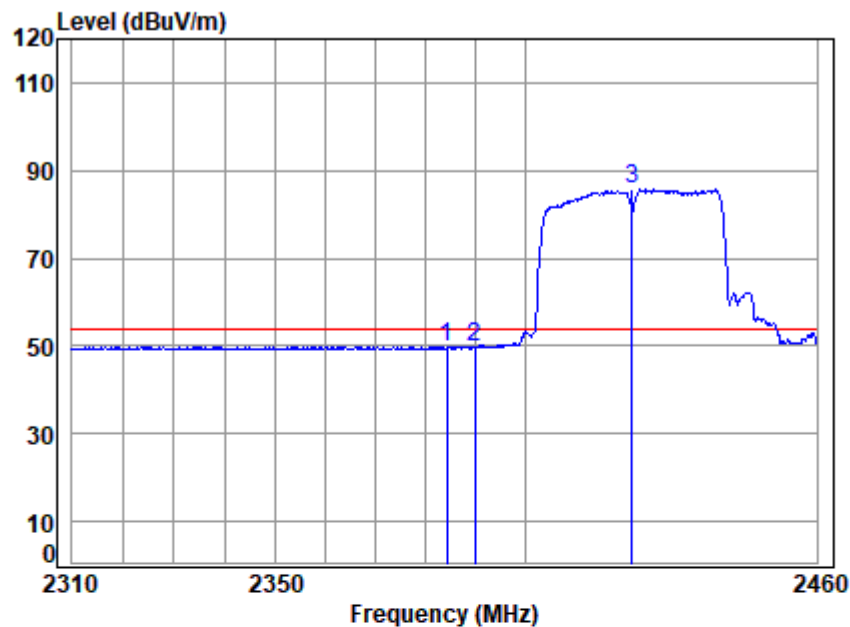


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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



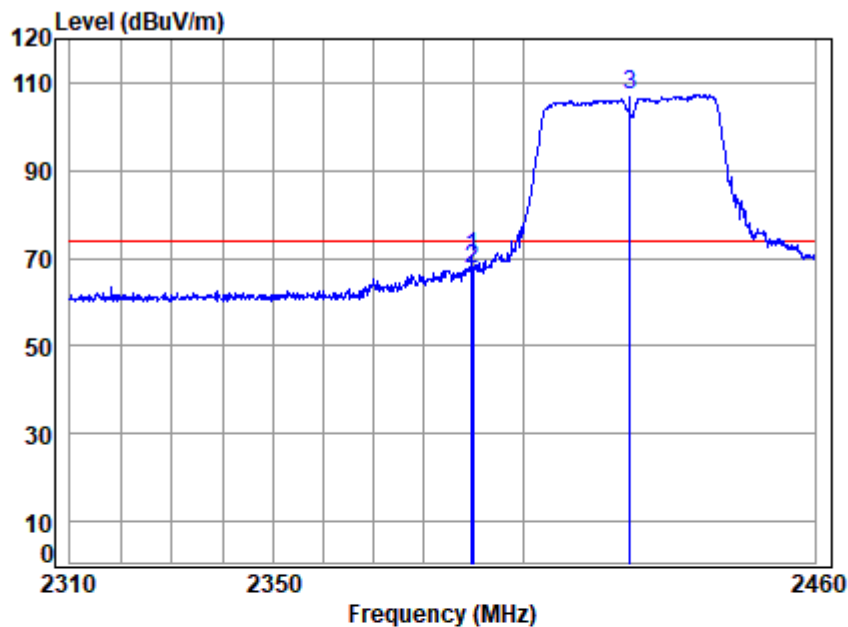
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2384.420	4.16	28.87	0.00	16.89	49.92	54.00	-4.08 Average
2	2390.000	4.17	28.88	0.00	16.65	49.70	54.00	-4.30 Average
3	2422.000	4.20	28.94	0.00	52.48	85.62	54.00	31.62 Average



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Test Mode: 00; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



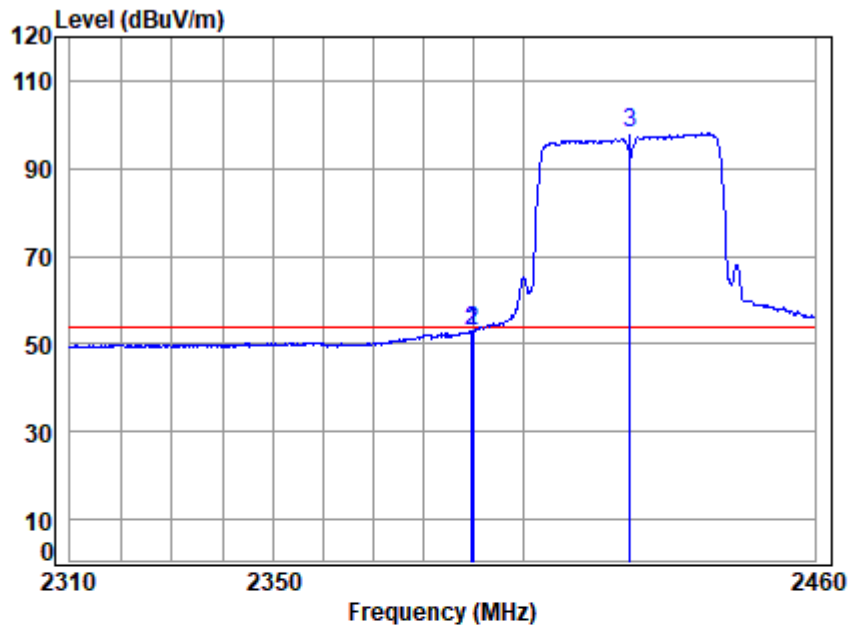
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.677	4.16	28.88	0.00	37.17	70.21	74.00	-3.79 Peak
2	2390.000	4.17	28.88	0.00	34.33	67.38	74.00	-6.62 Peak
3	2422.000	4.20	28.94	0.00	74.12	107.26	74.00	33.26 Peak



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Test Mode: 00; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.827	4.16	28.88	0.00	19.88	52.92	54.00	-1.08 Average
2	2390.000	4.17	28.88	0.00	19.72	52.77	54.00	-1.23 Average
3	2422.000	4.20	28.94	0.00	64.79	97.93	54.00	43.93 Average

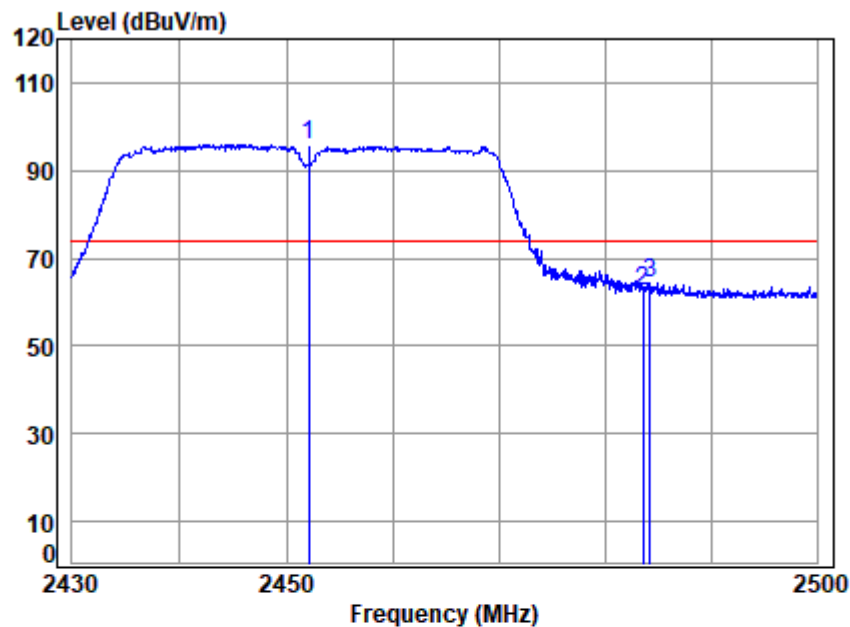


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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

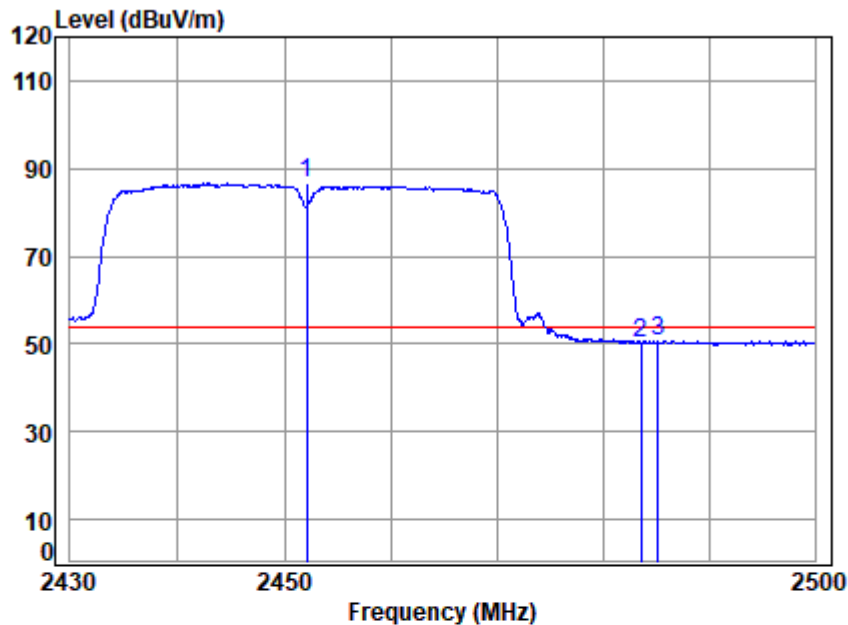
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2452.000	4.23	29.00	0.00	62.62	95.85	74.00	21.85 peak
2	2483.500	4.27	29.07	0.00	29.11	62.45	74.00	-11.55 peak
3	2484.147	4.27	29.07	0.00	30.94	64.28	74.00	-9.72 peak



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Test Mode: 00; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2452.000	4.23	29.00	0.00	53.27	86.50	54.00	32.50 Average
2	2483.500	4.27	29.07	0.00	16.84	50.18	54.00	-3.82 Average
3	2485.135	4.27	29.07	0.00	17.50	50.84	54.00	-3.16 Average

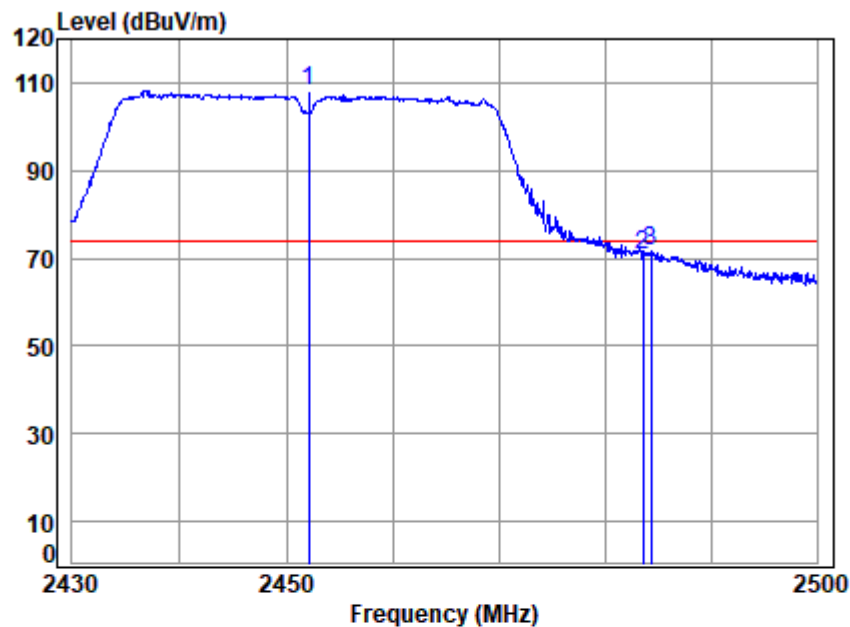


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Test Mode: 00; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High



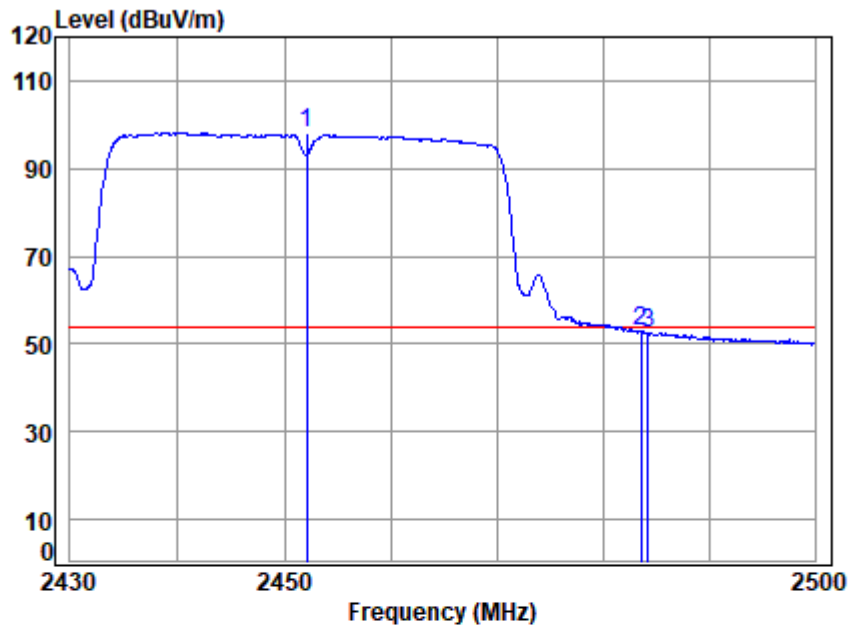
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2452.000	4.23	29.00	0.00	74.95	108.18	74.00	34.18 Peak
2	2483.500	4.27	29.07	0.00	37.44	70.78	74.00	-3.22 Peak
3	2484.217	4.27	29.07	0.00	38.15	71.49	74.00	-2.51 Peak



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Test Mode: 00; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2452.000	4.23	29.00	0.00	65.00	98.23	54.00	44.23 Average
2	2483.500	4.27	29.07	0.00	19.61	52.95	54.00	-1.05 Average
3	2484.147	4.27	29.07	0.00	19.18	52.52	54.00	-1.48 Average



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6.4 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C

Humidity: 45.9 % RH

Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

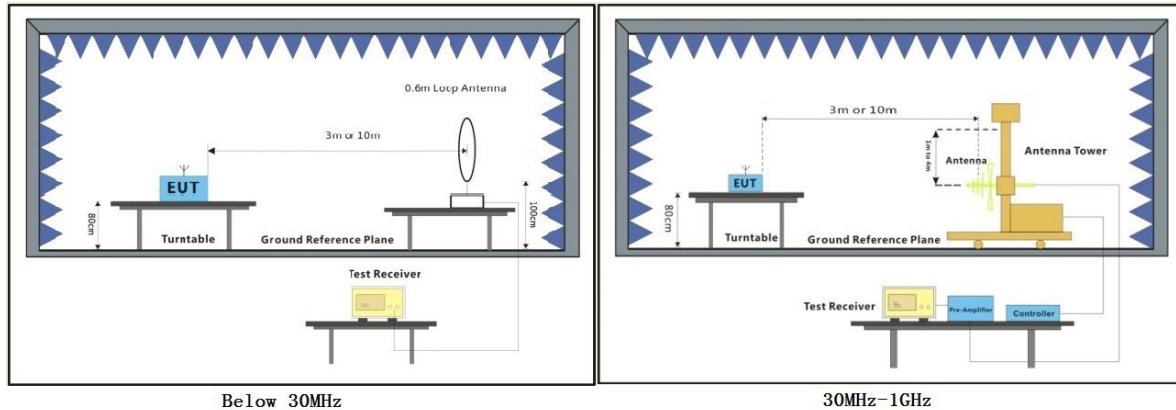
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of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



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6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

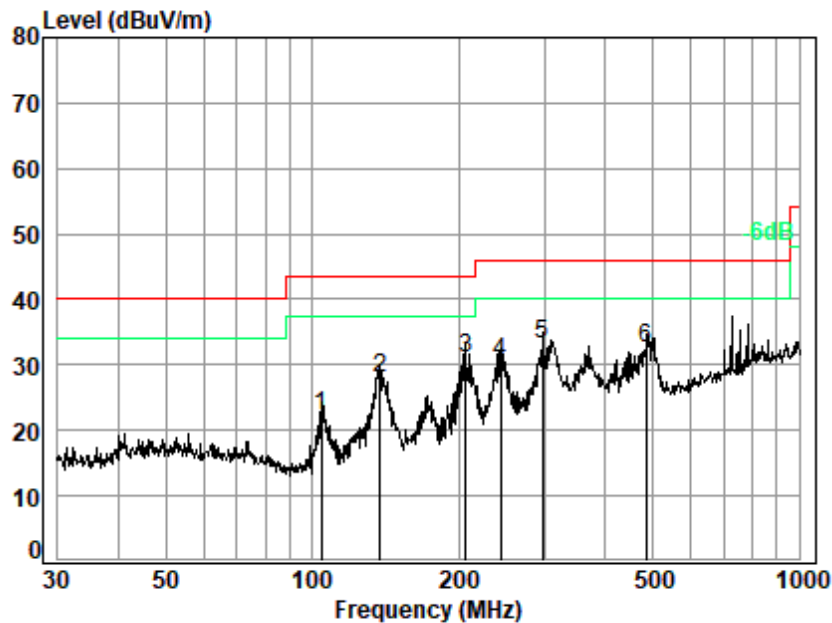
- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from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



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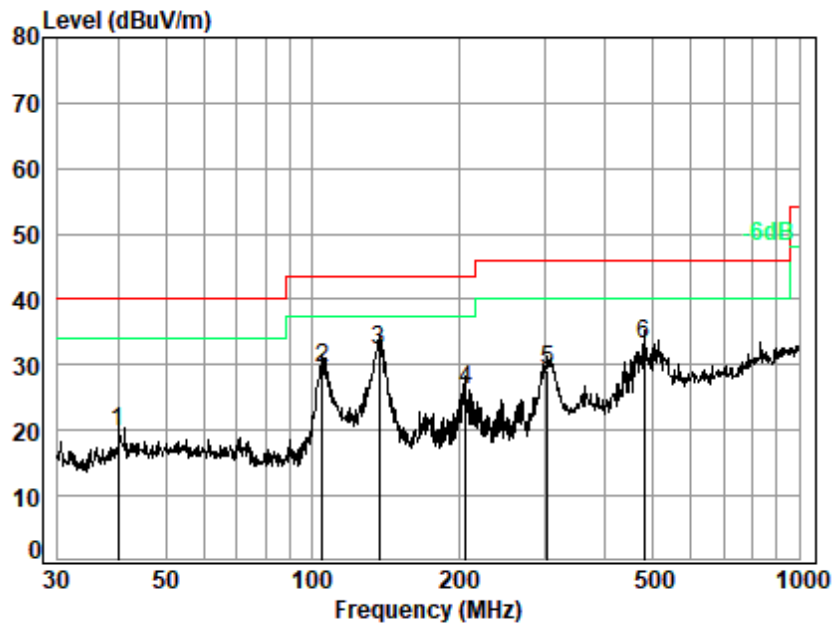
Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	104.5360	0.86	14.93	25.50	31.95	22.24	43.50	-21.26	QP
2	137.9029	0.91	17.27	25.53	35.30	27.95	43.50	-15.55	QP
3	206.3976	0.72	15.38	25.57	40.56	31.09	43.50	-12.41	QP
4	243.3772	0.81	16.53	25.58	38.80	30.56	46.00	-15.44	QP
5	297.2241	1.00	18.21	25.60	39.48	33.09	46.00	-12.91	QP
6	485.6093	1.42	22.23	25.69	34.60	32.56	46.00	-13.44	QP

Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	39.9942	0.20	16.73	24.94	27.65	19.64	40.00	-20.36	QP
2	104.9033	0.86	14.98	25.50	39.30	29.64	43.50	-13.86	QP
3	137.4202	0.91	17.23	25.53	39.70	32.31	43.50	-11.19	QP
4	206.3976	0.72	15.38	25.57	35.71	26.24	43.50	-17.26	QP
5	304.6100	1.06	18.52	25.60	35.30	29.28	46.00	-16.72	QP
6	480.5276	1.42	22.16	25.69	35.33	33.22	46.00	-12.78	QP

6.5 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

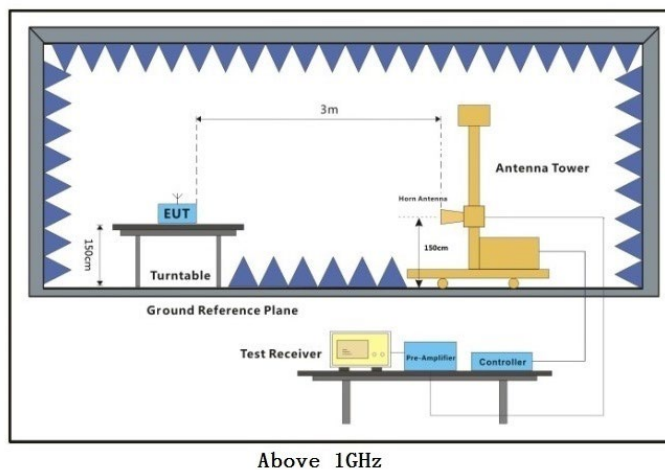
Humidity: 60.2 % RH

Atmospheric Pressure: 1020 mbar

6.5.2 Test Mode Description

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

6.5.3 Test Setup Diagram



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6.5.4 Measurement Procedure and Data

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

Remark:

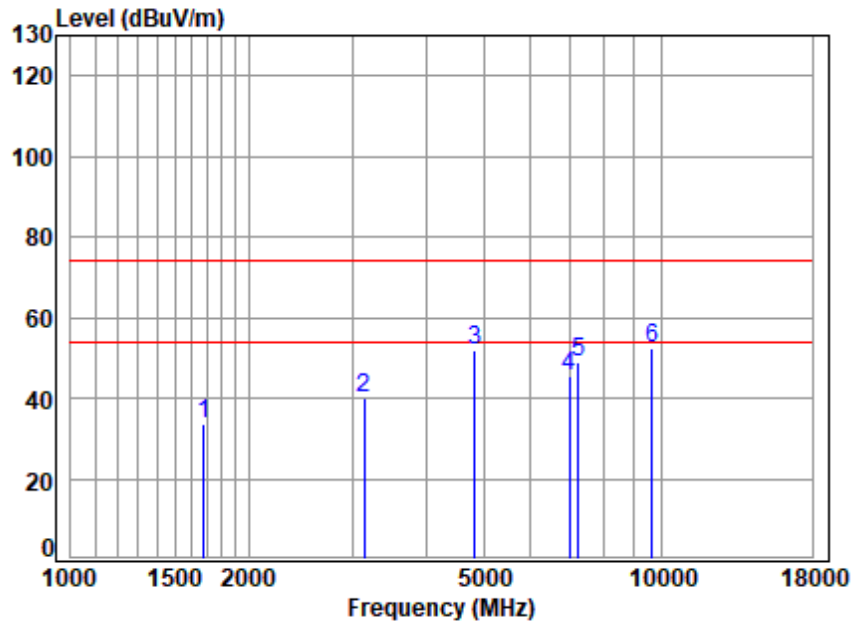
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. For WLAN radiated test, according to the conducted power and verify test the SISO & MIMO mode, the worst-case is SISO mode for 802.11b/g, MIMO mode for 802.11n, therefore, all final test are performed in SISO & MIMO mode and reported.



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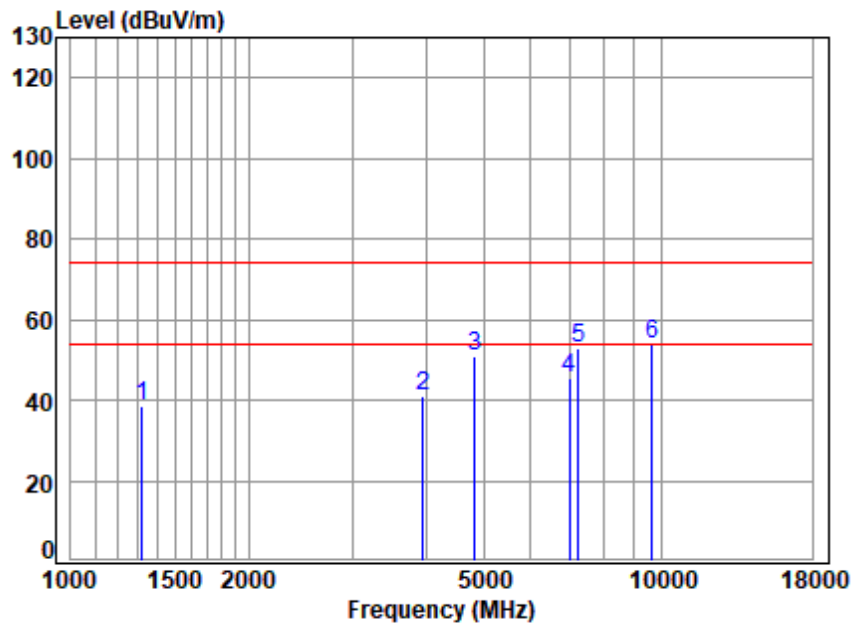
Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.4770	4.16	24.97	52.95	57.61	33.79	74.00	-40.21	peak
2	3141.1450	6.10	28.63	53.05	58.31	39.99	74.00	-34.01	peak
3	4824.0000	8.02	30.99	53.05	65.84	51.80	74.00	-22.20	peak
4	6995.1720	8.19	35.79	53.50	55.15	45.63	74.00	-28.37	peak
5	7236.0000	8.31	36.09	53.52	58.26	49.14	74.00	-24.86	peak
6	9648.0000	11.38	37.62	53.54	56.87	52.33	74.00	-21.67	peak

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



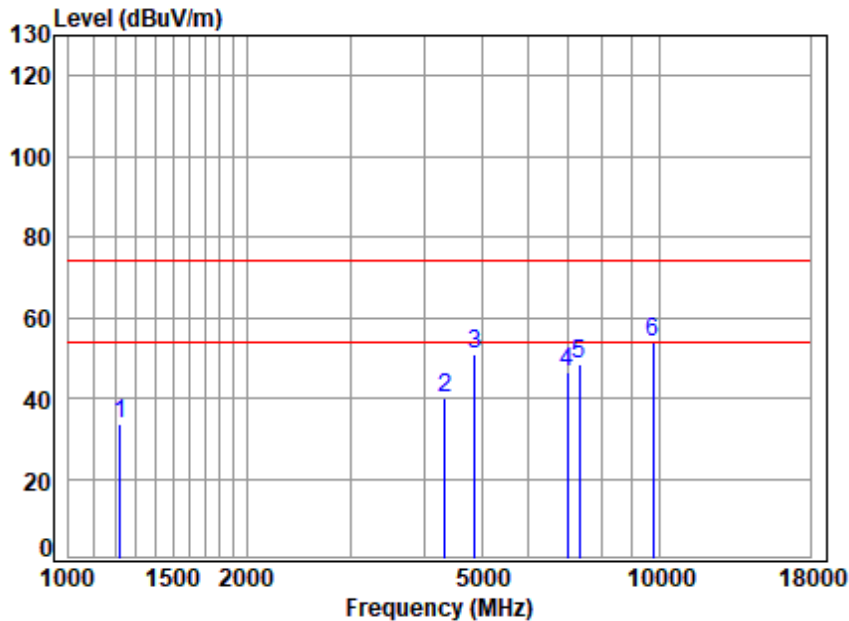
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.7940	3.41	24.24	52.74	63.87	38.78	74.00	-35.22	peak
2	3946.8850	7.44	29.42	52.81	56.94	40.99	74.00	-33.01	peak
3	4824.0000	8.02	30.99	53.05	65.10	51.06	74.00	-22.94	peak
4	6974.9820	8.17	35.74	53.48	55.14	45.57	74.00	-28.43	peak
5	7236.0000	8.31	36.09	53.52	61.77	52.65	74.00	-21.35	peak
6	9648.0000	11.38	37.62	53.54	58.18	53.64	74.00	-20.36	peak



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



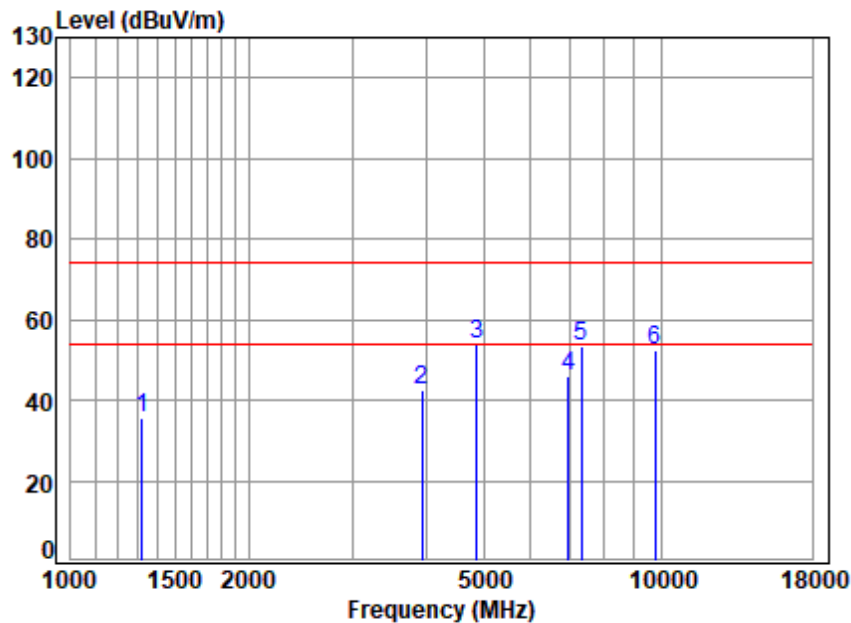
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.7140	3.20	24.29	52.67	58.88	33.70	74.00	-40.30	peak
2	4329.3540	7.48	29.97	52.91	55.26	39.80	74.00	-34.20	peak
3	4874.0000	8.10	31.11	53.07	64.65	50.79	74.00	-23.21	peak
4	6995.1720	8.19	35.79	53.50	56.06	46.54	74.00	-27.46	peak
5	7311.0000	8.34	36.18	53.53	57.33	48.32	74.00	-25.68	peak
6	9748.0000	11.30	37.84	53.44	58.24	53.94	74.00	-20.06	peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

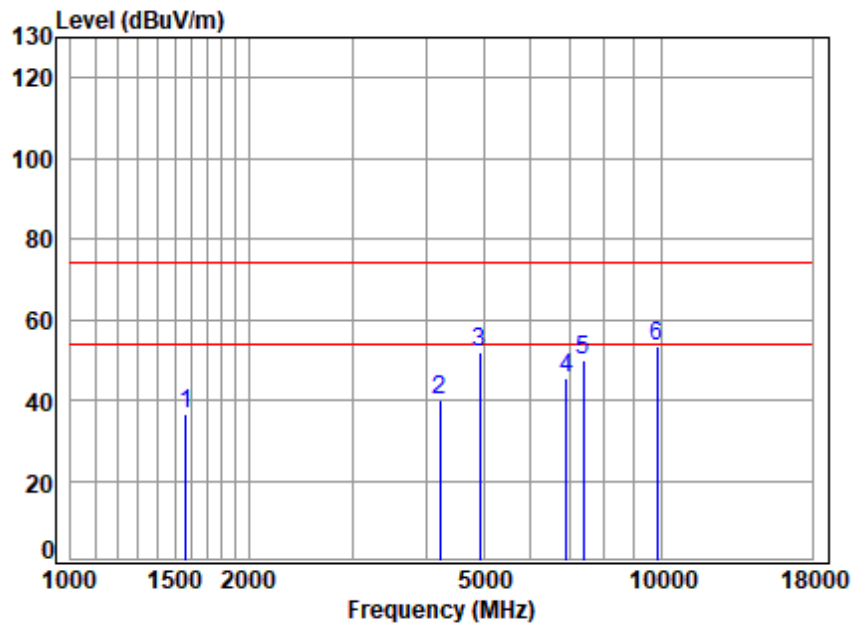
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.7940	3.41	24.24	52.74	60.89	35.80	74.00	-38.20	peak
2	3935.4930	7.43	29.40	52.82	58.46	42.47	74.00	-31.53	peak
3	4874.0000	8.10	31.11	53.07	67.55	53.69	74.00	-20.31	peak
4	6954.8520	8.15	35.70	53.47	55.72	46.10	74.00	-27.90	peak
5	7311.0000	8.34	36.18	53.53	62.37	53.36	74.00	-20.64	peak
6	9748.0000	11.30	37.84	53.44	56.80	52.50	74.00	-21.50	peak



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

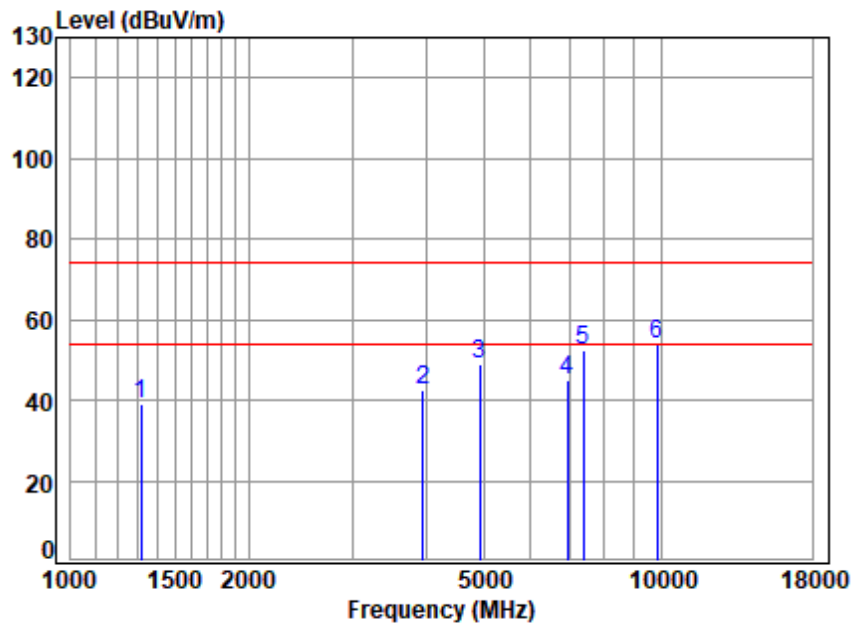
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.7210	3.92	24.71	52.89	61.07	36.81	74.00	-37.19	peak
2	4218.1860	7.48	29.82	52.87	55.56	39.99	74.00	-34.01	peak
3	4924.0000	8.18	31.23	53.08	65.72	52.05	74.00	-21.95	peak
4	6914.7630	8.11	35.60	53.44	55.09	45.36	74.00	-28.64	peak
5	7386.0000	8.38	36.27	53.54	58.59	49.70	74.00	-24.30	peak
6	9848.0000	11.23	38.07	53.35	57.63	53.58	74.00	-20.42	peak



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



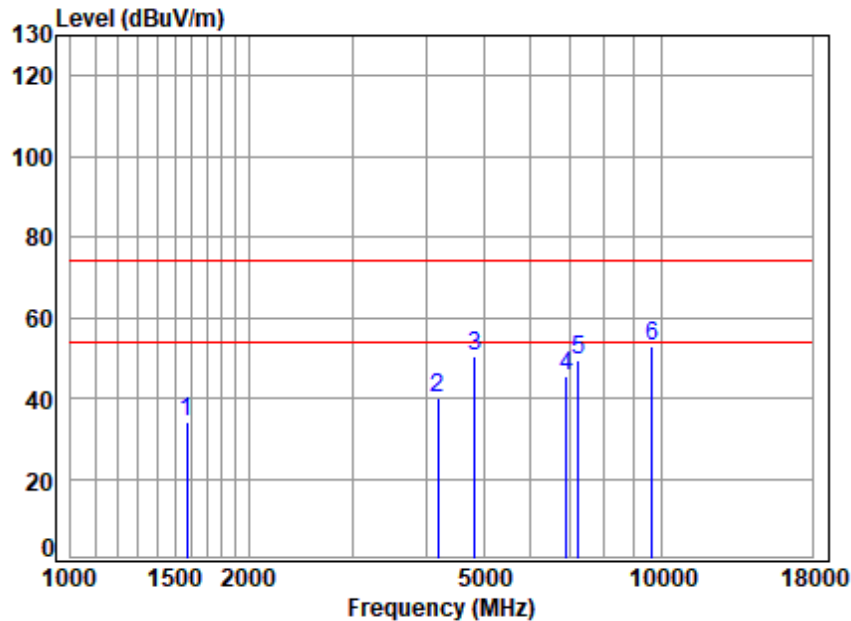
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1315.9850	3.41	24.24	52.74	64.05	38.96	74.00	-35.04 peak
2 3946.8850	7.44	29.42	52.81	58.51	42.56	74.00	-31.44 peak
3 4924.0000	8.18	31.23	53.08	62.69	49.02	74.00	-24.98 peak
4 6934.7780	8.13	35.65	53.46	54.89	45.21	74.00	-28.79 peak
5 7386.0000	8.38	36.27	53.54	61.34	52.45	74.00	-21.55 peak
6 9848.0000	11.23	38.07	53.35	57.92	53.87	74.00	-20.13 peak



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.2650	3.93	24.73	52.89	58.14	33.91	74.00	-40.09	peak
2	4181.7680	7.48	29.76	52.86	55.51	39.89	74.00	-34.11	peak
3	4824.0000	8.02	30.99	53.05	64.37	50.33	74.00	-23.67	peak
4	6914.7630	8.11	35.60	53.44	55.44	45.71	74.00	-28.29	peak
5	7236.0000	8.31	36.09	53.52	58.74	49.62	74.00	-24.38	peak
6	9648.0000	11.38	37.62	53.54	57.63	53.09	74.00	-20.91	peak

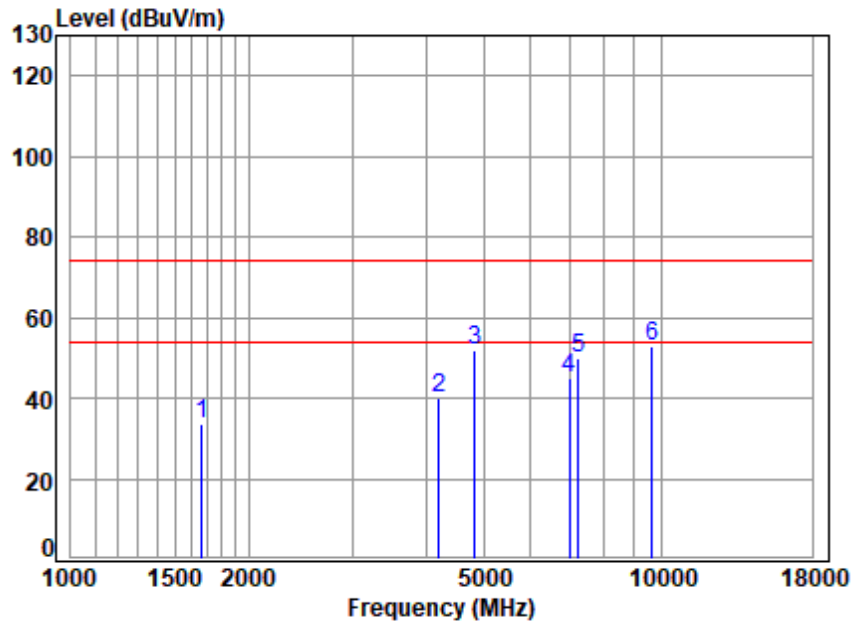


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Shenzhen Branch

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

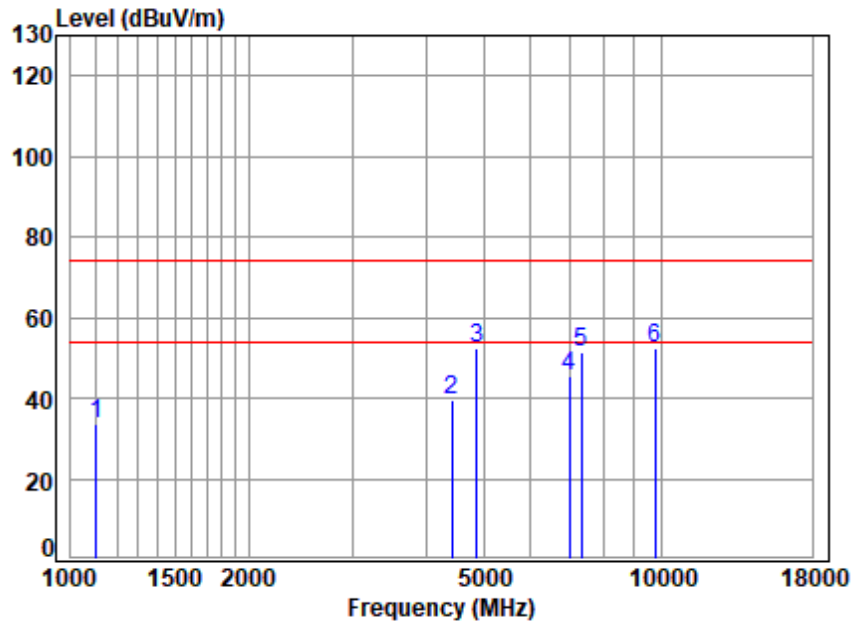
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.9510	4.13	24.94	52.94	57.53	33.66	74.00	-40.34	peak
2	4193.8720	7.48	29.78	52.86	55.47	39.87	74.00	-34.13	peak
3	4824.0000	8.02	30.99	53.05	65.99	51.95	74.00	-22.05	peak
4	6995.1720	8.19	35.79	53.50	54.56	45.04	74.00	-28.96	peak
5	7236.0000	8.31	36.09	53.52	59.18	50.06	74.00	-23.94	peak
6	9648.0000	11.38	37.62	53.54	57.35	52.81	74.00	-21.19	peak



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1106.4570	2.92	24.21	52.59	58.97	33.51	74.00	-40.49	peak
2	4417.8410	7.47	30.09	52.93	54.78	39.41	74.00	-34.59	peak
3	4874.0000	8.10	31.11	53.07	66.05	52.19	74.00	-21.81	peak
4	6995.1720	8.19	35.79	53.50	55.17	45.65	74.00	-28.35	peak
5	7311.0000	8.34	36.18	53.53	60.54	51.53	74.00	-22.47	peak
6	9748.0000	11.30	37.84	53.44	56.92	52.62	74.00	-21.38	peak

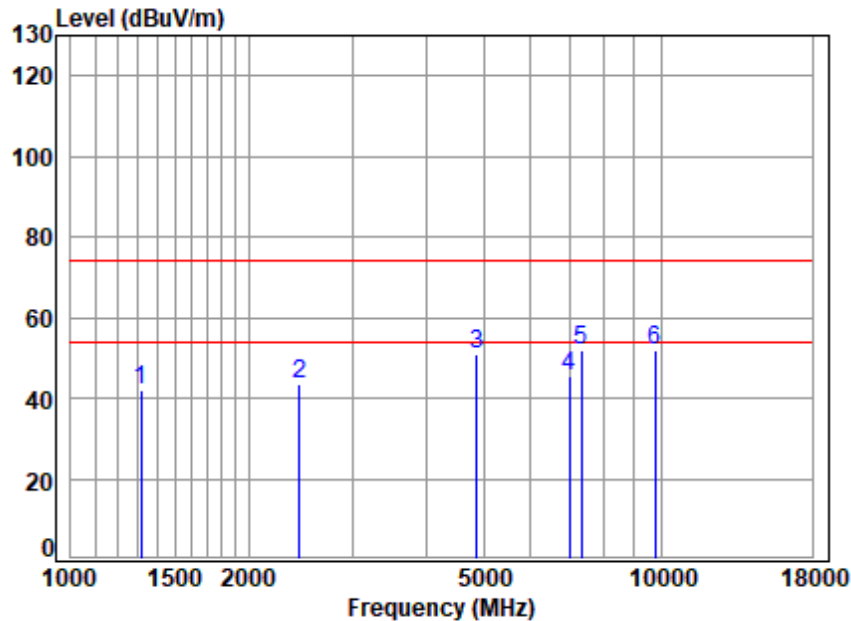


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

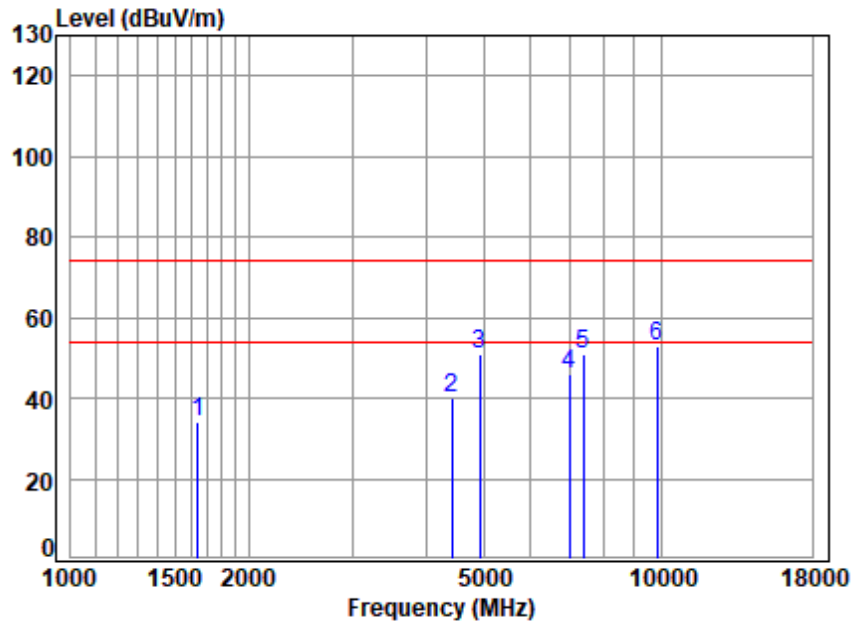
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.9850	3.41	24.24	52.74	67.22	42.13	74.00	-31.87	peak
2	2435.7010	5.09	27.26	53.10	64.48	43.73	74.00	-30.27	Peak
3	4874.0000	8.10	31.11	53.07	64.54	50.68	74.00	-23.32	peak
4	6974.9820	8.17	35.74	53.48	55.23	45.66	74.00	-28.34	peak
5	7311.0000	8.34	36.18	53.53	61.13	52.12	74.00	-21.88	peak
6	9748.0000	11.30	37.84	53.44	56.39	52.09	74.00	-21.91	peak



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.0190	4.08	24.89	52.93	57.98	34.02	74.00	-39.98	peak
2	4417.8410	7.47	30.09	52.93	55.25	39.88	74.00	-34.12	peak
3	4924.0000	8.18	31.23	53.08	64.55	50.88	74.00	-23.12	peak
4	6995.1720	8.19	35.79	53.50	55.34	45.82	74.00	-28.18	peak
5	7386.0000	8.38	36.27	53.54	59.91	51.02	74.00	-22.98	peak
6	9848.0000	11.23	38.07	53.35	56.88	52.83	74.00	-21.17	peak

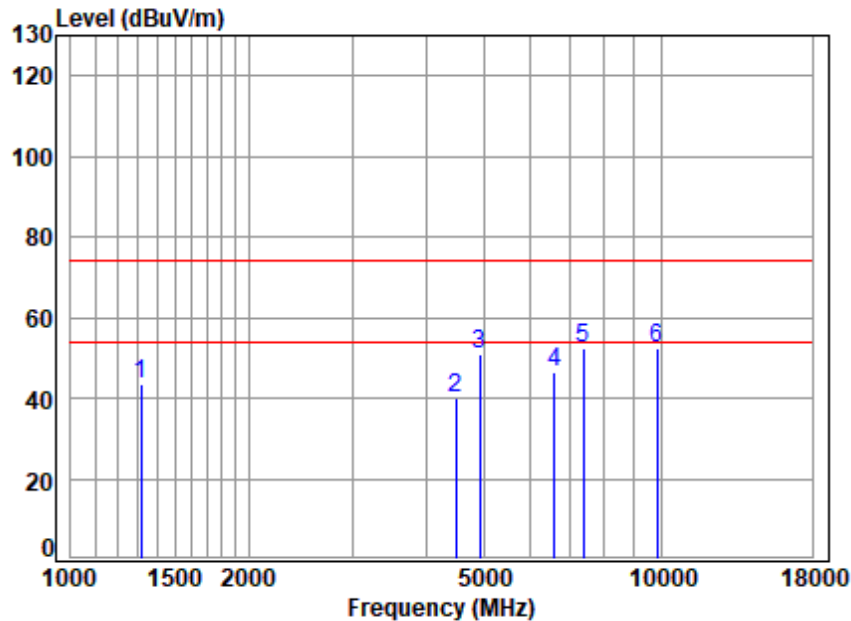


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.9850	3.41	24.24	52.74	68.69	43.60	74.00	-30.40	peak
2	4482.1500	7.47	30.18	52.95	55.48	40.18	74.00	-33.82	peak
3	4924.0000	8.18	31.23	53.08	64.55	50.88	74.00	-23.12	peak
4	6583.2090	7.78	34.81	53.22	56.98	46.35	74.00	-27.65	peak
5	7386.0000	8.38	36.27	53.54	61.20	52.31	74.00	-21.69	peak
6	9848.0000	11.23	38.07	53.35	56.21	52.16	74.00	-21.84	peak

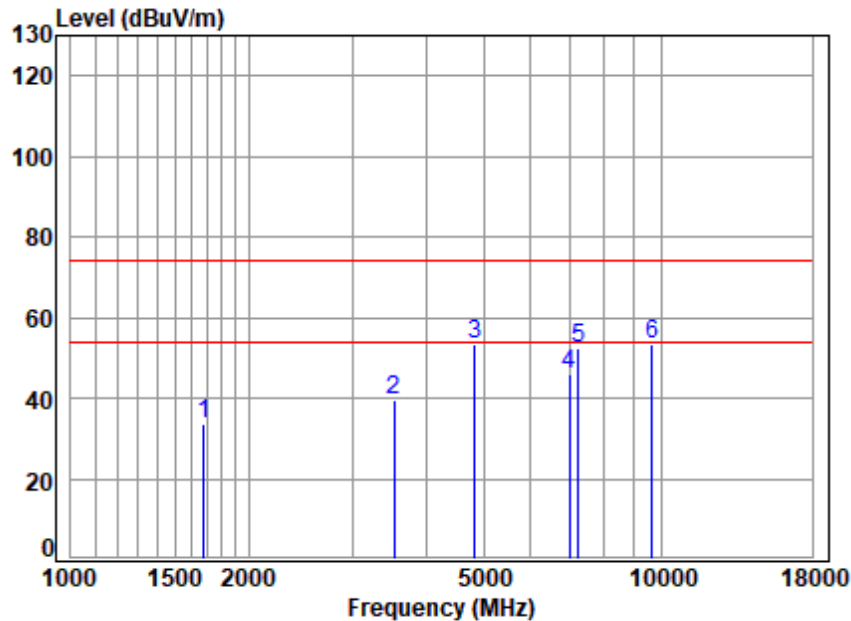


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

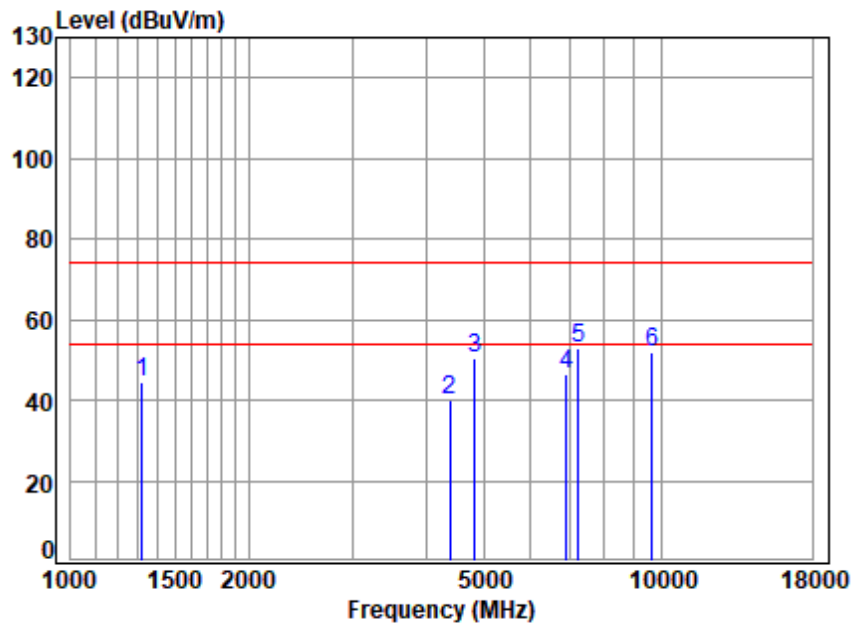
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.4770	4.16	24.97	52.95	57.51	33.69	74.00	-40.31	peak
2	3526.1340	7.02	28.74	52.93	56.59	39.42	74.00	-34.58	peak
3	4824.0000	8.02	30.99	53.05	67.57	53.53	74.00	-20.47	peak
4	6995.1720	8.19	35.79	53.50	55.29	45.77	74.00	-28.23	peak
5	7236.0000	8.31	36.09	53.52	61.32	52.20	74.00	-21.80	peak
6	9648.0000	11.38	37.62	53.54	57.69	53.15	74.00	-20.85	peak



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



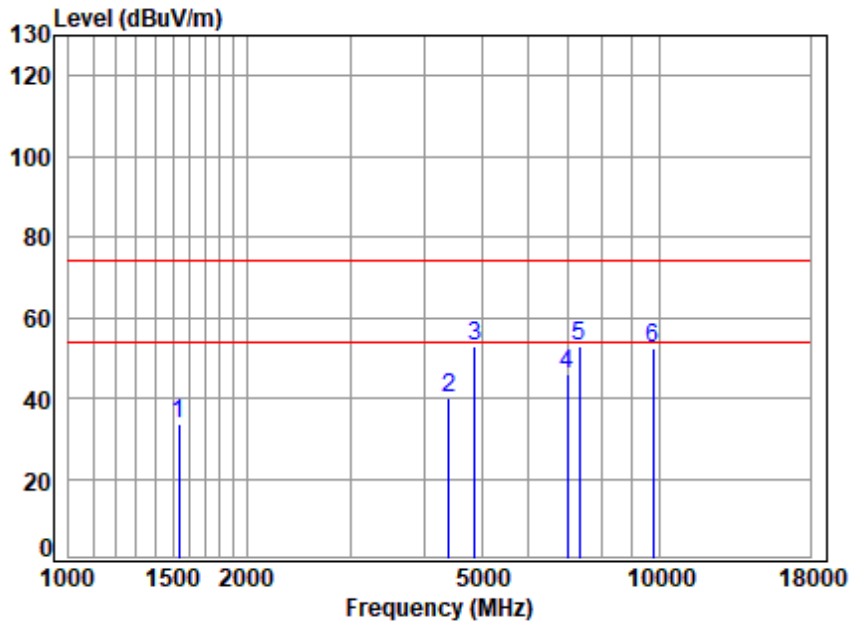
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.7940	3.41	24.24	52.74	69.39	44.30	74.00	-29.70	peak
2	4392.3760	7.47	30.06	52.93	55.36	39.96	74.00	-34.04	peak
3	4824.0000	8.02	30.99	53.05	64.59	50.55	74.00	-23.45	peak
4	6914.7630	8.11	35.60	53.44	56.25	46.52	74.00	-27.48	peak
5	7236.0000	8.31	36.09	53.52	62.16	53.04	74.00	-20.96	peak
6	9648.0000	11.38	37.62	53.54	56.43	51.89	74.00	-22.11	peak



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



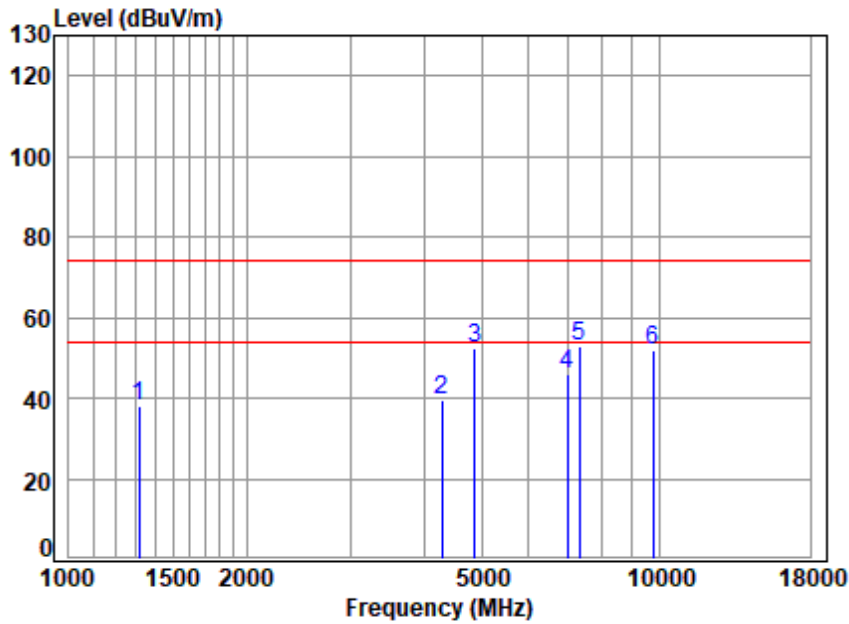
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.2810	3.86	24.62	52.87	58.09	33.70	74.00	-40.30	peak
2	4405.0900	7.47	30.07	52.93	55.42	40.03	74.00	-33.97	peak
3	4874.0000	8.10	31.11	53.07	66.69	52.83	74.00	-21.17	peak
4	6974.9820	8.17	35.74	53.48	55.34	45.77	74.00	-28.23	peak
5	7311.0000	8.34	36.18	53.53	61.68	52.67	74.00	-21.33	peak
6	9748.0000	11.30	37.84	53.44	56.56	52.26	74.00	-21.74	peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

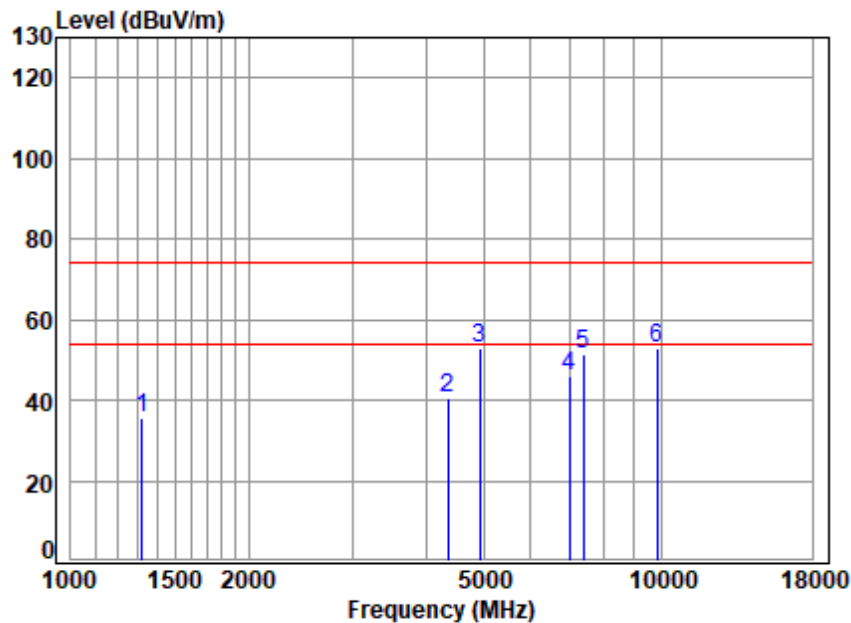
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.9850	3.41	24.24	52.74	63.11	38.02	74.00	-35.98	peak
2	4291.9770	7.48	29.92	52.89	55.13	39.64	74.00	-34.36	peak
3	4874.0000	8.10	31.11	53.07	66.49	52.63	74.00	-21.37	peak
4	6974.9820	8.17	35.74	53.48	55.34	45.77	74.00	-28.23	peak
5	7311.0000	8.34	36.18	53.53	61.65	52.64	74.00	-21.36	peak
6	9748.0000	11.30	37.84	53.44	56.29	51.99	74.00	-22.01	peak



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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00162AT

Mode : 2462 TX RSE

Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.7940	3.41	24.24	52.74	60.83	35.74	74.00	-38.26	peak
2	4354.4540	7.48	30.00	52.91	55.96	40.53	74.00	-33.47	peak
3	4924.0000	8.18	31.23	53.08	66.71	53.04	74.00	-20.96	peak
4	6974.9820	8.17	35.74	53.48	55.45	45.88	74.00	-28.12	peak
5	7386.0000	8.38	36.27	53.54	60.19	51.30	74.00	-22.70	peak
6	9848.0000	11.23	38.07	53.35	56.84	52.79	74.00	-21.21	peak

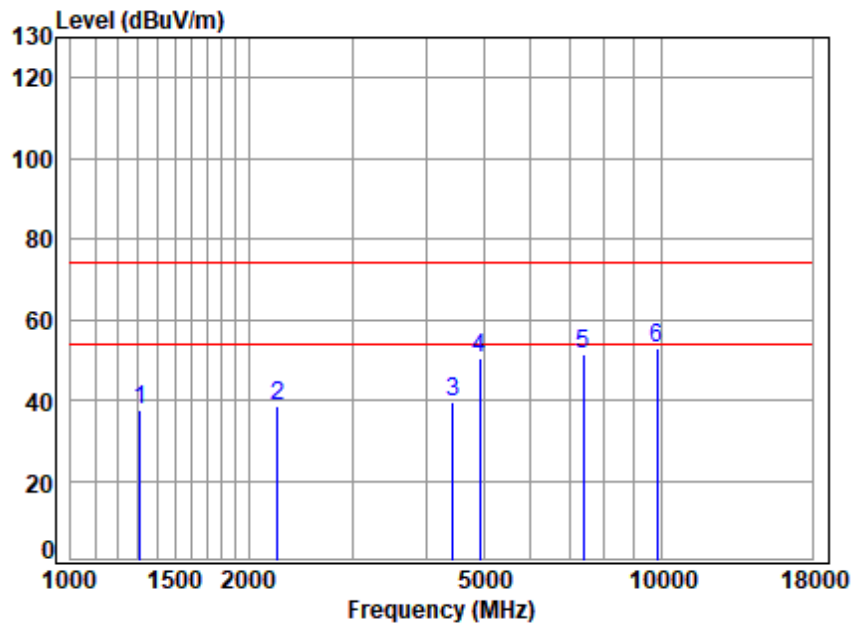


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1312.1870	3.40	24.24	52.74	62.45	37.35	74.00	-36.65	peak
2	2239.8610	4.94	26.81	53.10	59.82	38.47	74.00	-35.53	Peak
3	4430.6280	7.47	30.11	52.94	55.06	39.70	74.00	-34.30	peak
4	4924.0000	8.18	31.23	53.08	64.11	50.44	74.00	-23.56	peak
5	7386.0000	8.38	36.27	53.54	60.13	51.24	74.00	-22.76	peak
6	9848.0000	11.23	38.07	53.35	56.74	52.69	74.00	-21.31	peak

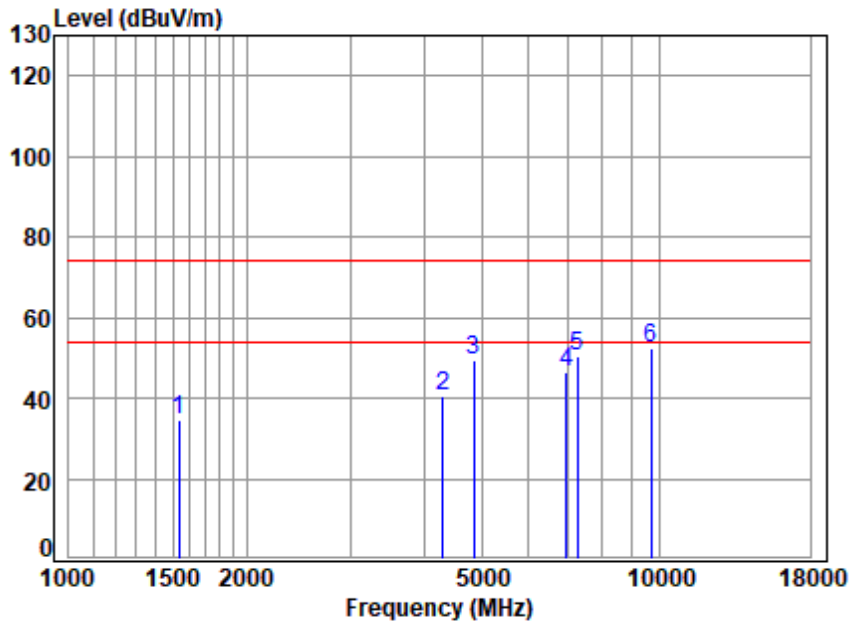


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2422 TX RSE
Note : 2.4G WIFI 11N40

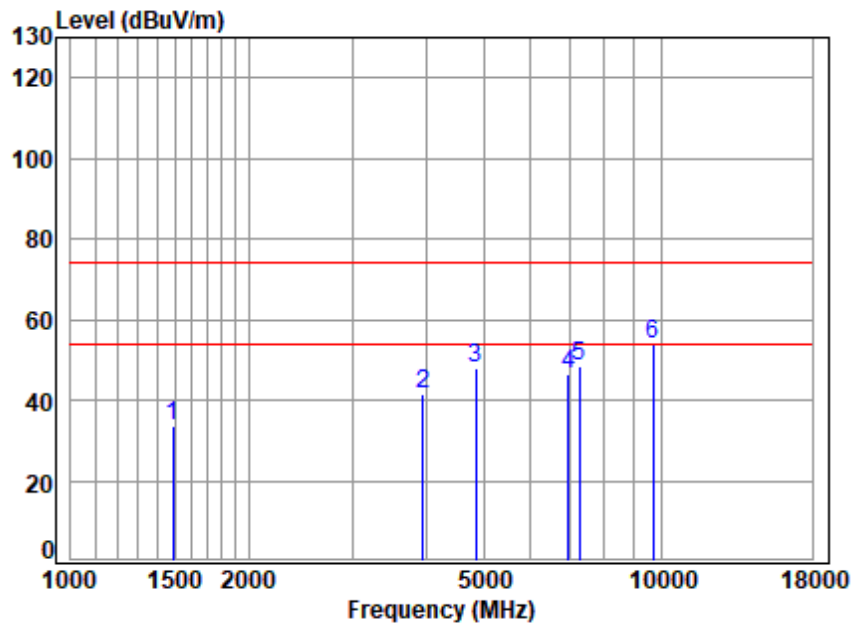
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.2810	3.86	24.62	52.87	58.82	34.43	74.00	-39.57	peak
2	4304.4000	7.48	29.94	52.90	55.89	40.41	74.00	-33.59	peak
3	4844.0000	8.05	31.04	53.06	63.33	49.36	74.00	-24.64	peak
4	6954.8520	8.15	35.70	53.47	56.28	46.66	74.00	-27.34	peak
5	7266.0000	8.32	36.12	53.53	59.42	50.33	74.00	-23.67	peak
6	9688.0000	11.35	37.71	53.50	56.69	52.25	74.00	-21.75	peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



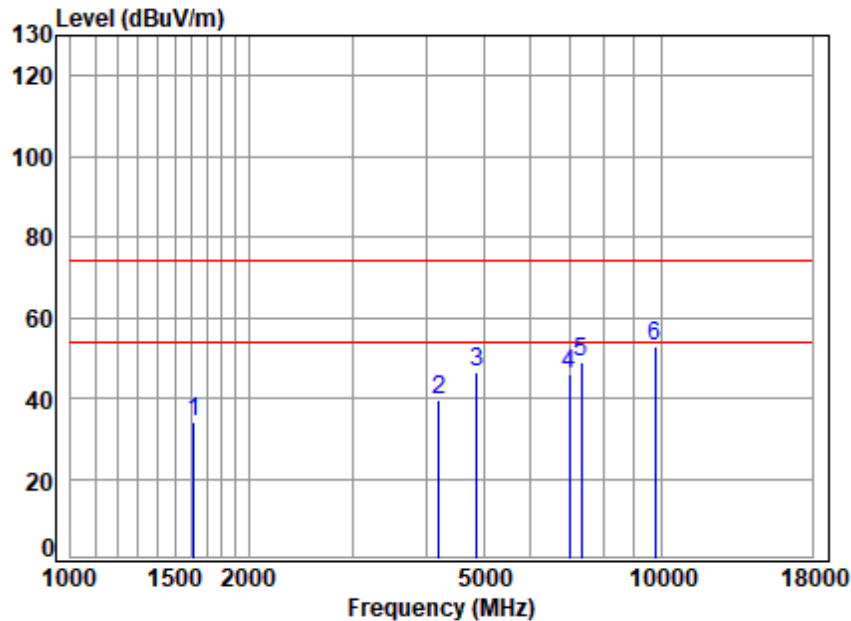
Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2422 TX RSE
Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1490.1420	3.75	24.48	52.85	58.42	33.80	74.00	-40.20	peak
2	3946.8850	7.44	29.42	52.81	57.45	41.50	74.00	-32.50	peak
3	4844.0000	8.05	31.04	53.06	62.13	48.16	74.00	-25.84	peak
4	6954.8520	8.15	35.70	53.47	55.86	46.24	74.00	-27.76	peak
5	7266.0000	8.32	36.12	53.53	57.54	48.45	74.00	-25.55	peak
6	9688.0000	11.35	37.71	53.50	58.11	53.67	74.00	-20.33	peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



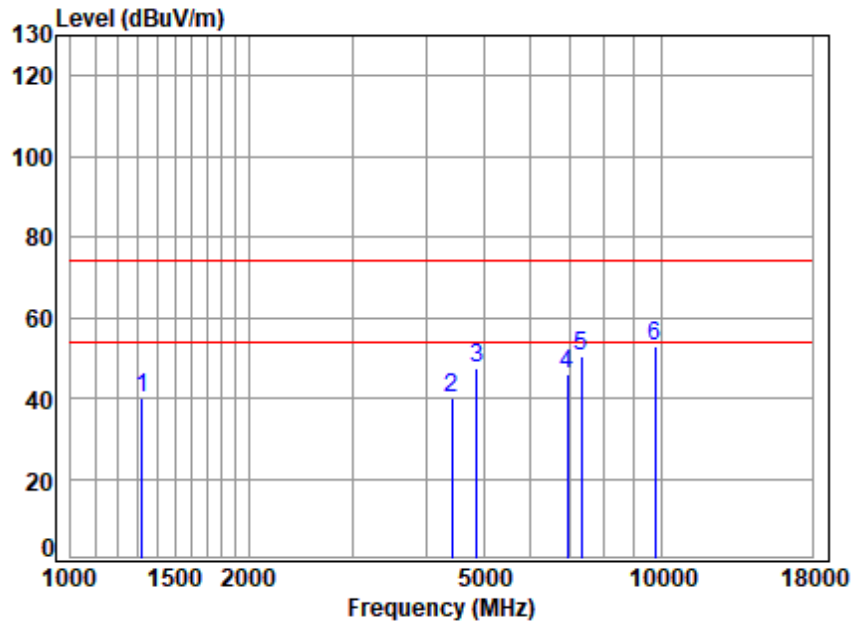
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.7540	4.02	24.83	52.92	58.30	34.23	74.00	-39.77	peak
2	4206.0110	7.48	29.80	52.87	55.07	39.48	74.00	-34.52	peak
3	4874.0000	8.10	31.11	53.07	60.11	46.25	74.00	-27.75	peak
4	6974.9820	8.17	35.74	53.48	55.42	45.85	74.00	-28.15	peak
5	7311.0000	8.34	36.18	53.53	57.83	48.82	74.00	-25.18	peak
6	9748.0000	11.30	37.84	53.44	57.35	53.05	74.00	-20.95	peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.7940	3.41	24.24	52.74	64.92	39.83	74.00	-34.17	peak
2	4417.8410	7.47	30.09	52.93	55.32	39.95	74.00	-34.05	peak
3	4874.0000	8.10	31.11	53.07	61.36	47.50	74.00	-26.50	peak
4	6934.7780	8.13	35.65	53.46	55.85	46.17	74.00	-27.83	peak
5	7311.0000	8.34	36.18	53.53	59.20	50.19	74.00	-23.81	peak
6	9748.0000	11.30	37.84	53.44	56.95	52.65	74.00	-21.35	peak

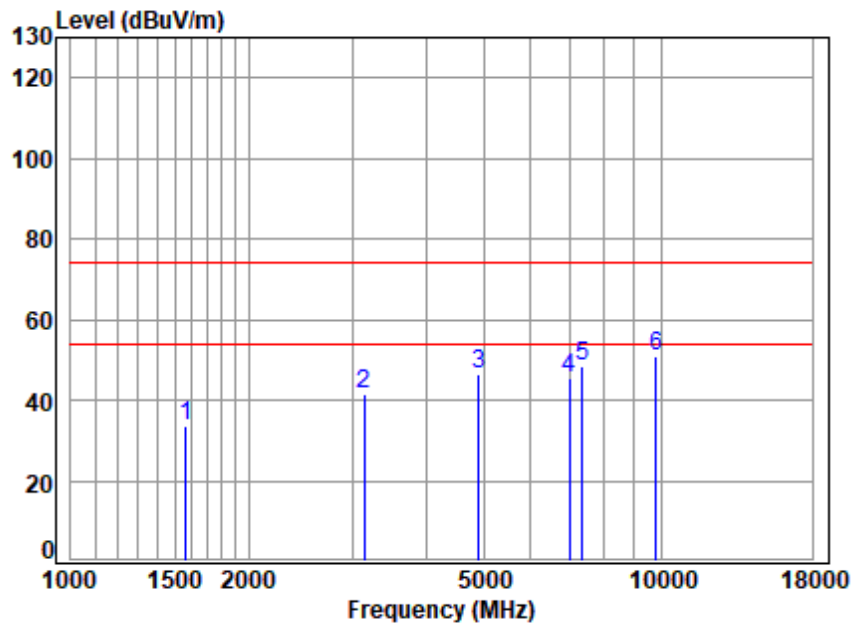


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00162AT
Mode : 2452 TX RSE
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.7210	3.92	24.71	52.89	58.10	33.84	74.00	-40.16	peak
2	3141.1450	6.10	28.63	53.05	59.81	41.49	74.00	-32.51	peak
3	4904.0000	8.15	31.18	53.07	60.25	46.51	74.00	-27.49	peak
4	6995.1720	8.19	35.79	53.50	54.92	45.40	74.00	-28.60	peak
5	7356.0000	8.36	36.23	53.54	57.50	48.55	74.00	-25.45	peak
6	9808.0000	11.26	37.98	53.38	55.23	51.09	74.00	-22.91	peak

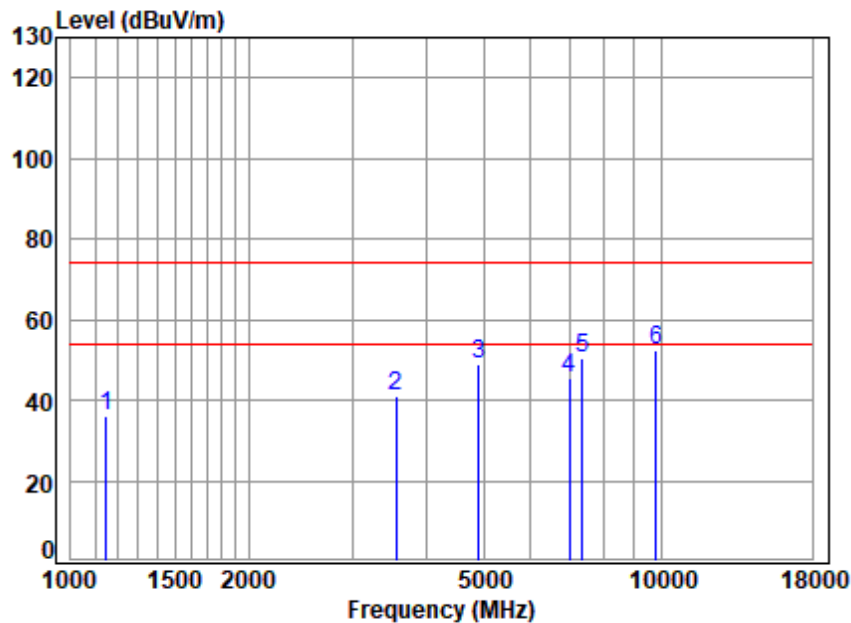


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00162AT
Mode : 2452 TX RSE
Note : 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1148.8230	3.03	24.25	52.62	61.40	36.06	74.00	-37.94 peak
2 3556.8430	7.05	28.80	52.92	57.87	40.80	74.00	-33.20 peak
3 4904.0000	8.15	31.18	53.07	62.68	48.94	74.00	-25.06 peak
4 6995.1720	8.19	35.79	53.50	55.20	45.68	74.00	-28.32 peak
5 7356.0000	8.36	36.23	53.54	59.41	50.46	74.00	-23.54 peak
6 9808.0000	11.26	37.98	53.38	56.31	52.17	74.00	-21.83 peak



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7 Test Setup Photo

Refer to Appendix - Photographs of Setup Photo for FYCR2205000162AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for FYCR2205000162AT



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9 Appendix

1. Maximum Conducted Output Power

1.1 Power

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.61	<=30	Pass
		2437	16.91	<=30	Pass
		2462	17.24	<=30	Pass
802.11g	SISO	2412	11.66	<=30	Pass
		2437	13.30	<=30	Pass
		2462	13.50	<=30	Pass
802.11n (HT20)	SISO	2412	12.04	<=30	Pass
		2437	13.63	<=30	Pass
		2462	13.79	<=30	Pass
802.11n (HT40)	SISO	2422	10.54	<=30	Pass
		2437	11.34	<=30	Pass
		2452	11.62	<=30	Pass

Note1: Antenna Gain: Ant1: 5.50dBi;

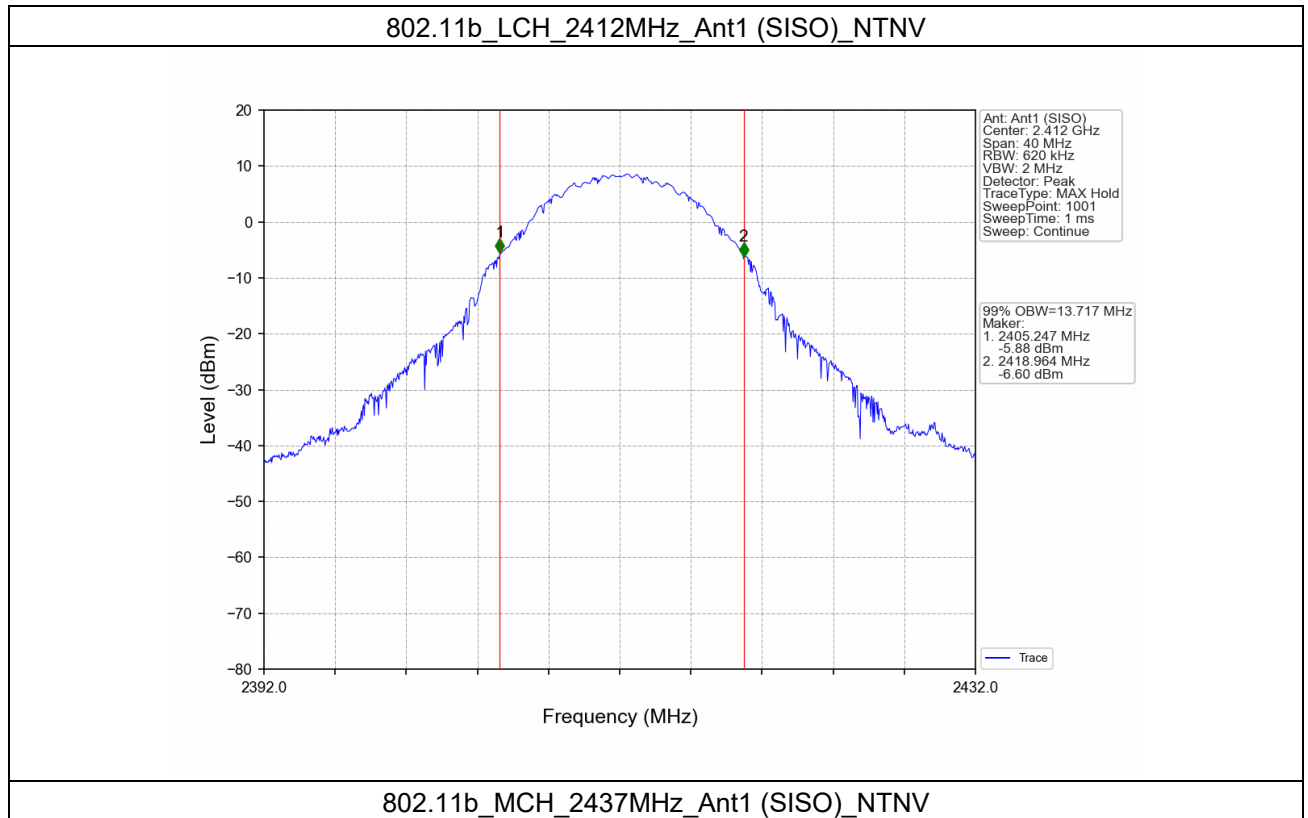
2. Bandwidth

2.1 OBW

2.1.1 Test Result

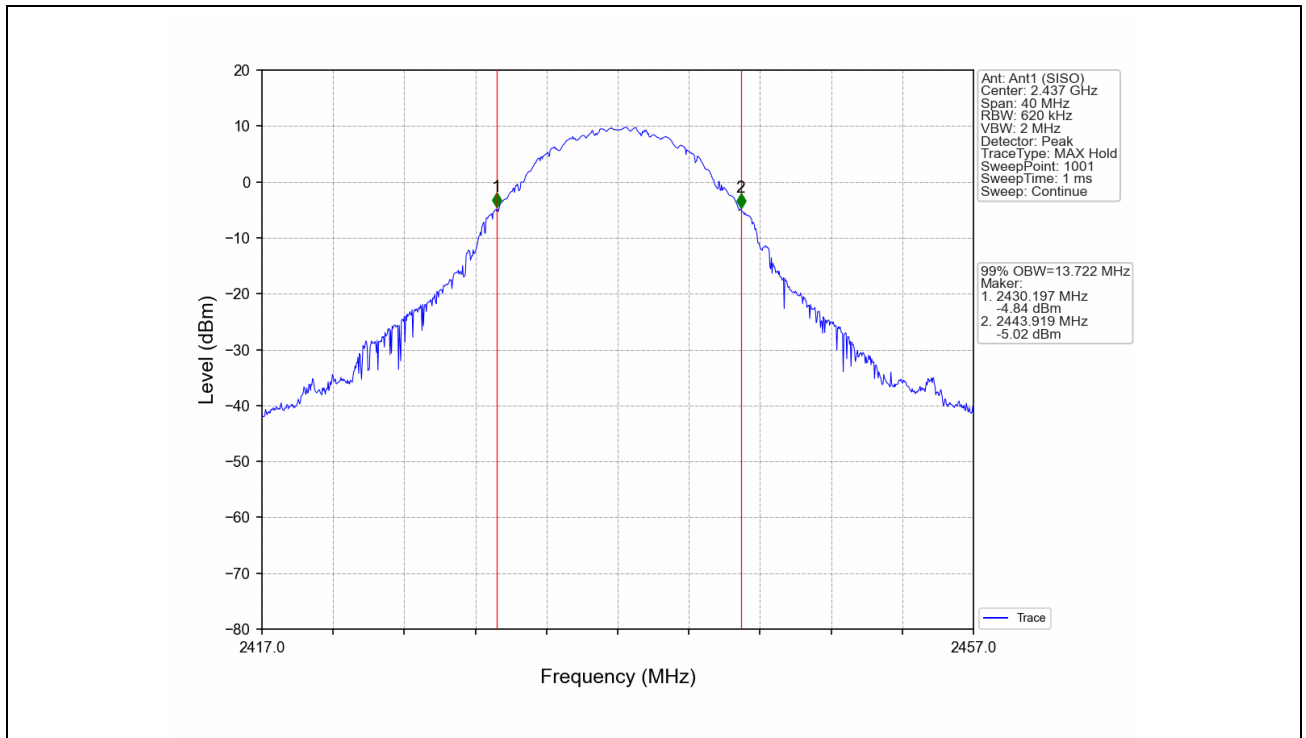
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.717	Pass
		2437	1	13.722	Pass
		2462	1	13.852	Pass
802.11g	SISO	2412	1	17.497	Pass
		2437	1	17.693	Pass
		2462	1	18.124	Pass
802.11n (HT20)	SISO	2412	1	18.668	Pass
		2437	1	18.760	Pass
		2462	1	18.749	Pass
802.11n (HT40)	SISO	2422	1	36.750	Pass
		2437	1	36.709	Pass
		2452	1	36.573	Pass

2.1.2 Test Graph



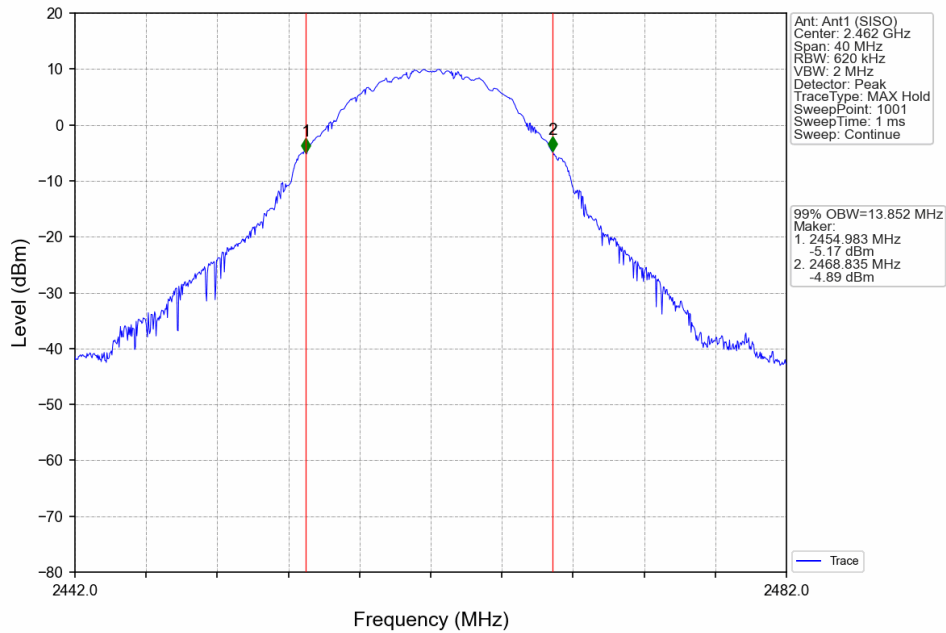
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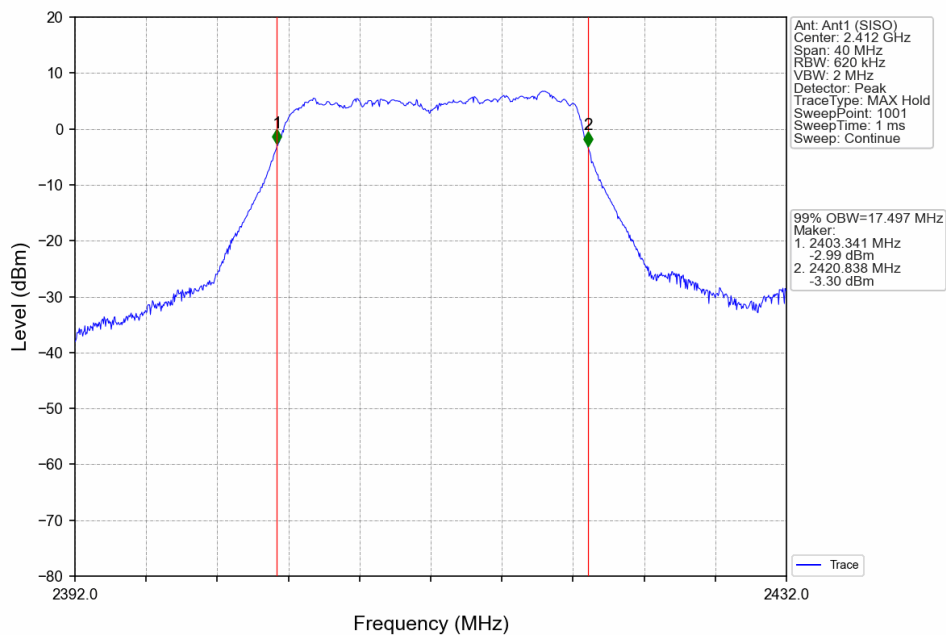


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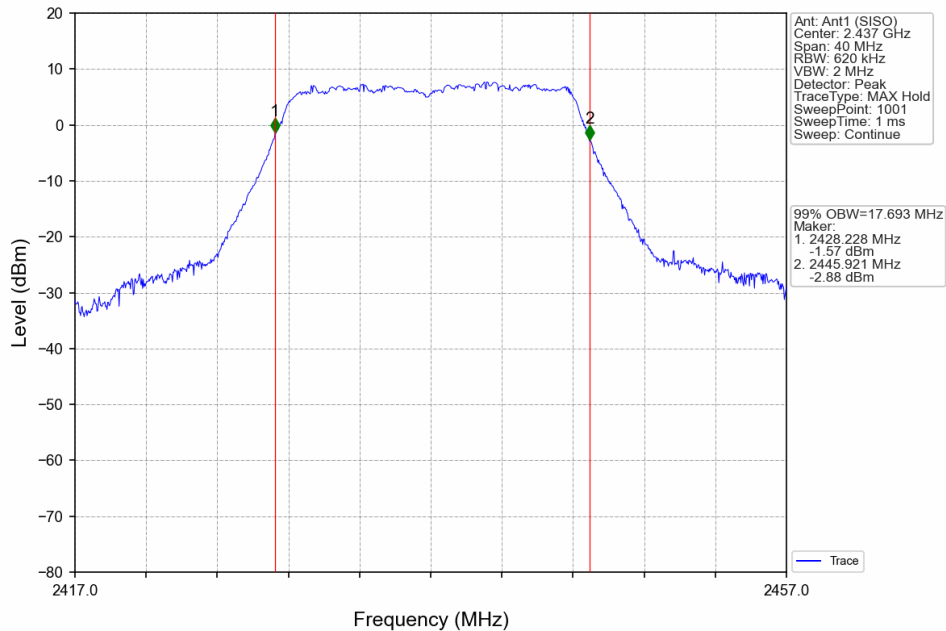
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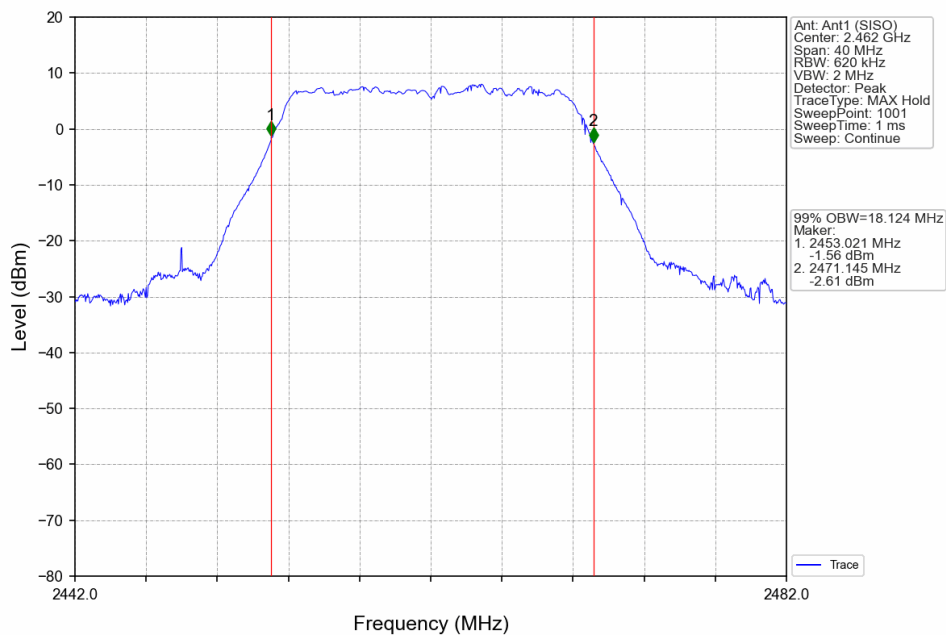
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



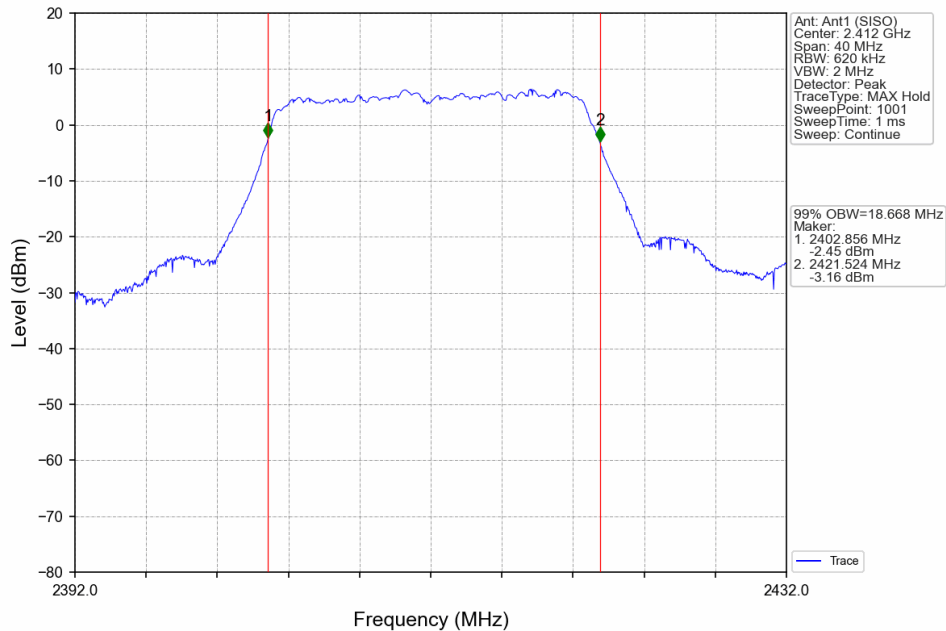
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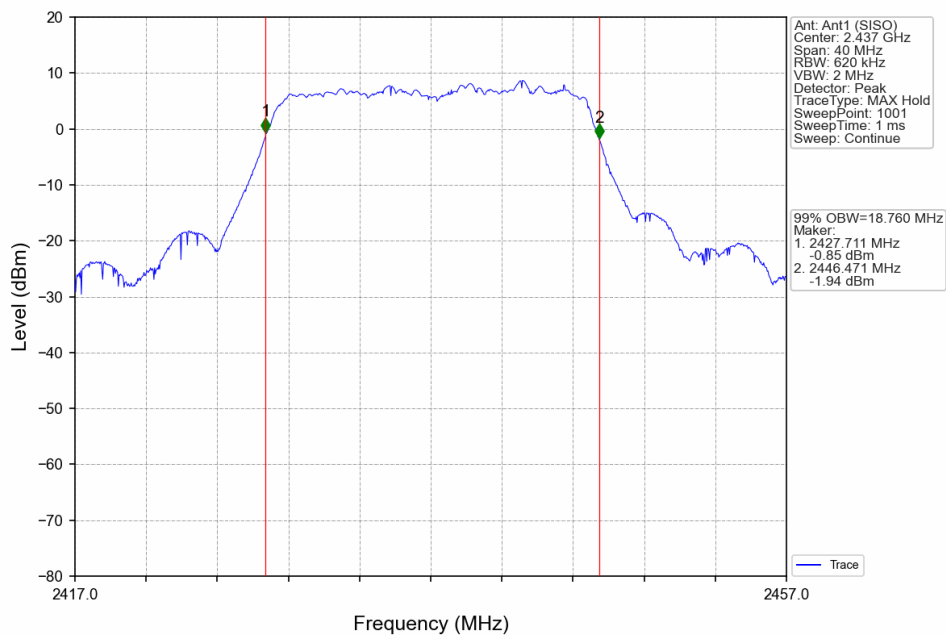
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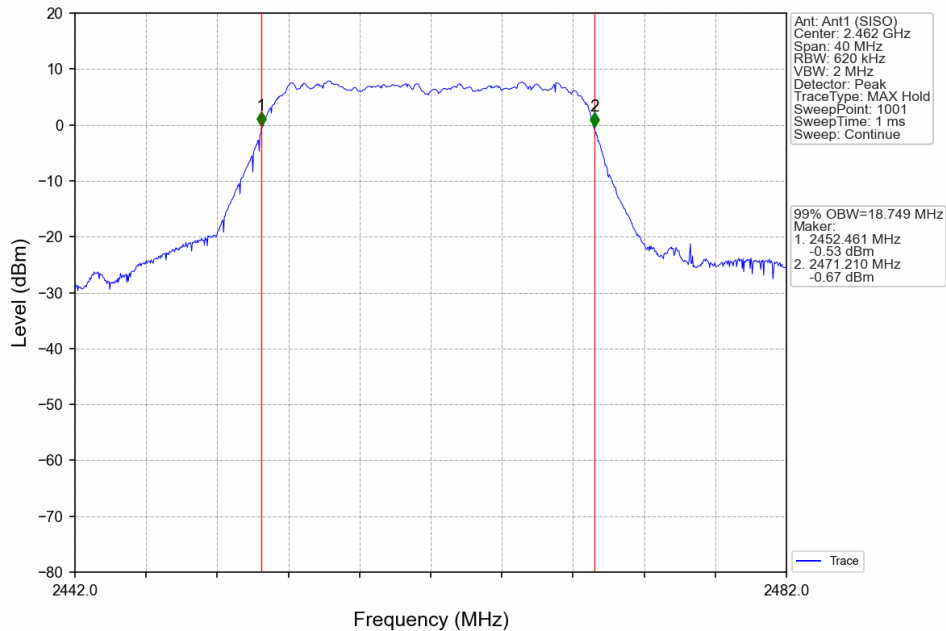
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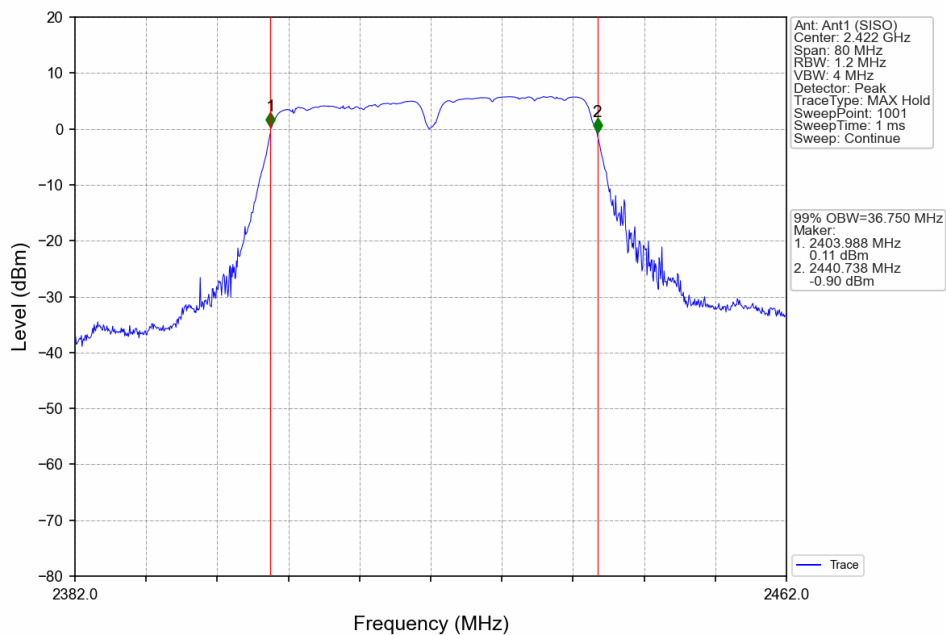
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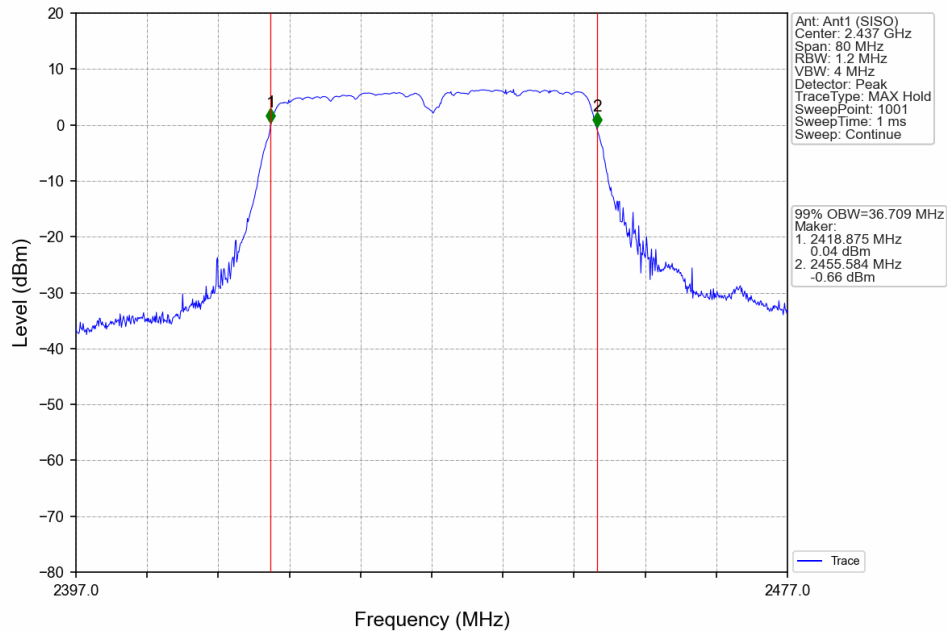
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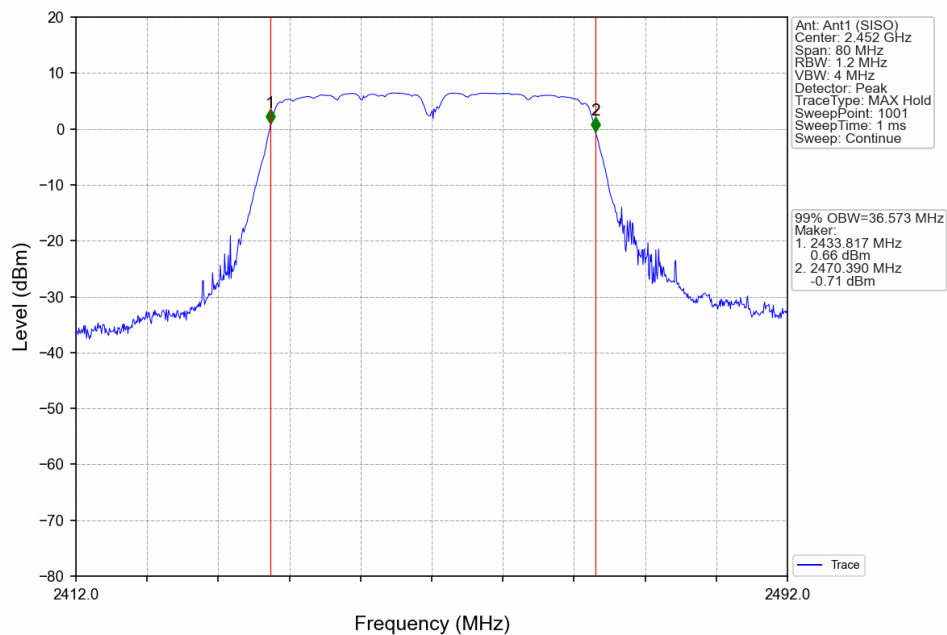
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.588	≥ 0.5	Pass
		2437	1	8.594	≥ 0.5	Pass
		2462	1	9.053	≥ 0.5	Pass
802.11g	SISO	2412	1	16.378	≥ 0.5	Pass
		2437	1	16.395	≥ 0.5	Pass
		2462	1	16.392	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.368	≥ 0.5	Pass
		2437	1	17.576	≥ 0.5	Pass
		2462	1	17.335	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.787	≥ 0.5	Pass
		2437	1	35.744	≥ 0.5	Pass
		2452	1	35.840	≥ 0.5	Pass

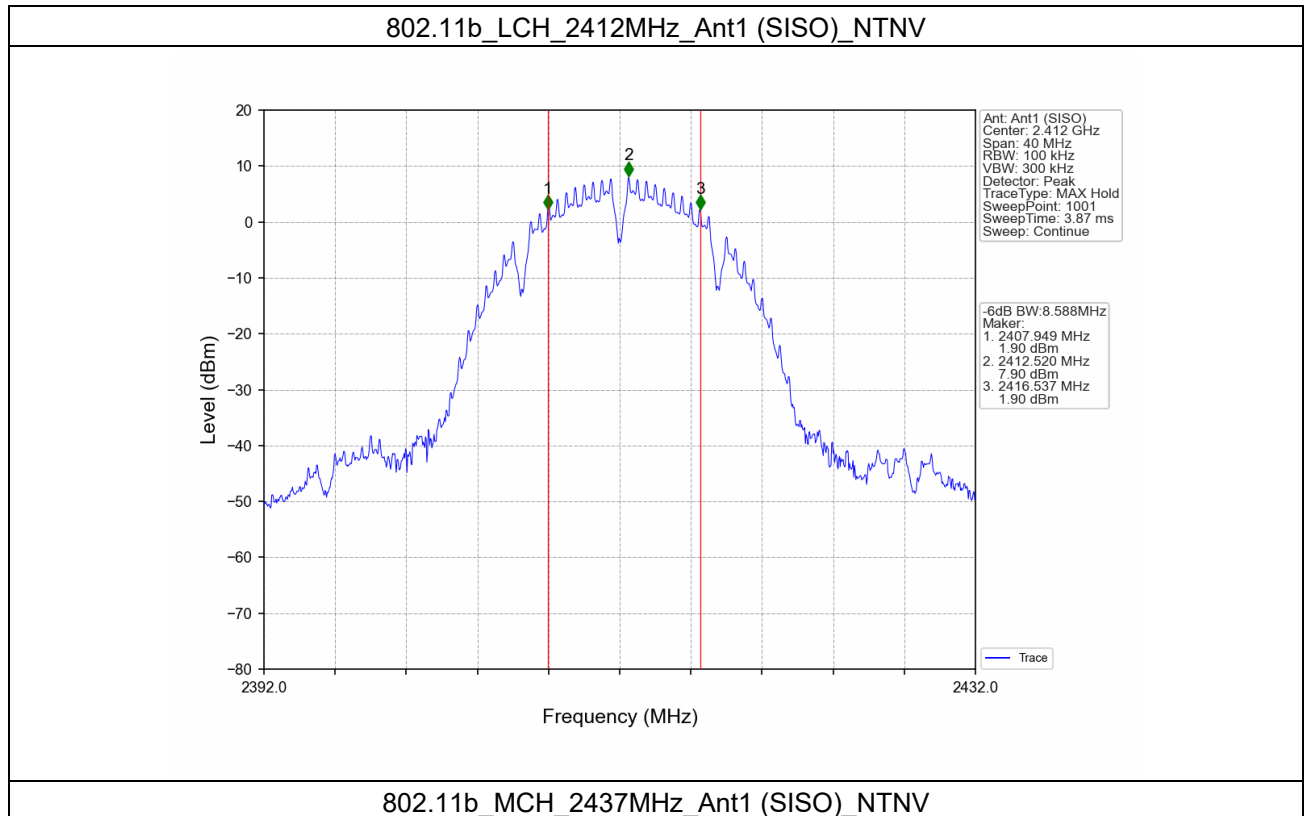


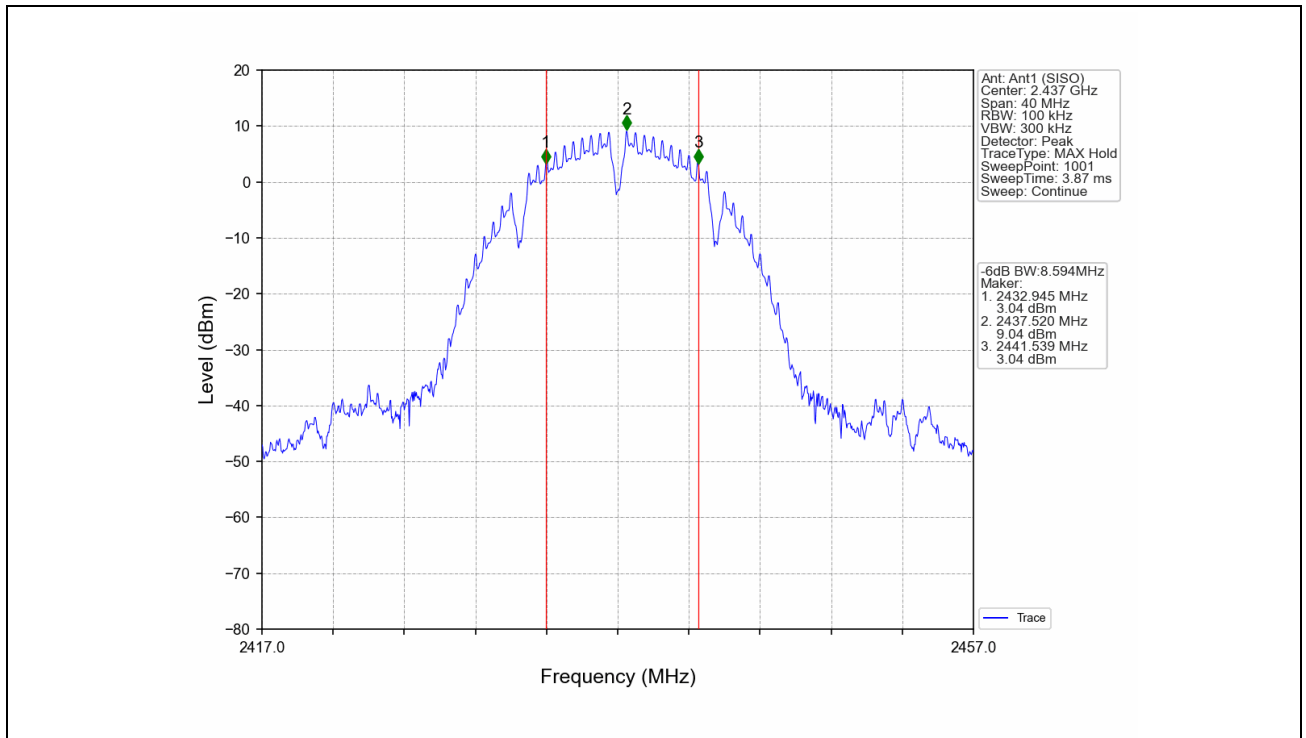
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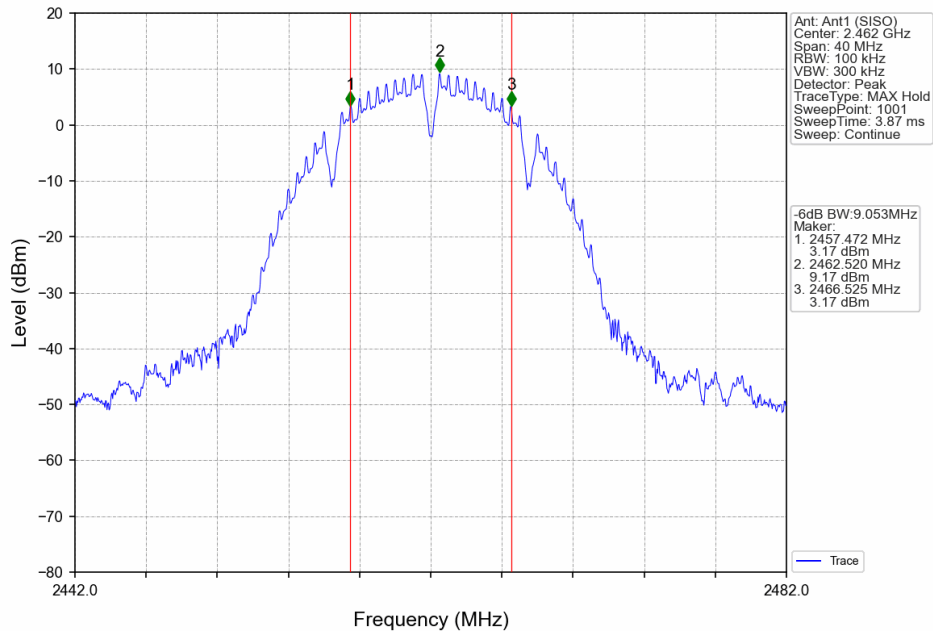
2.2.2 Test Graph



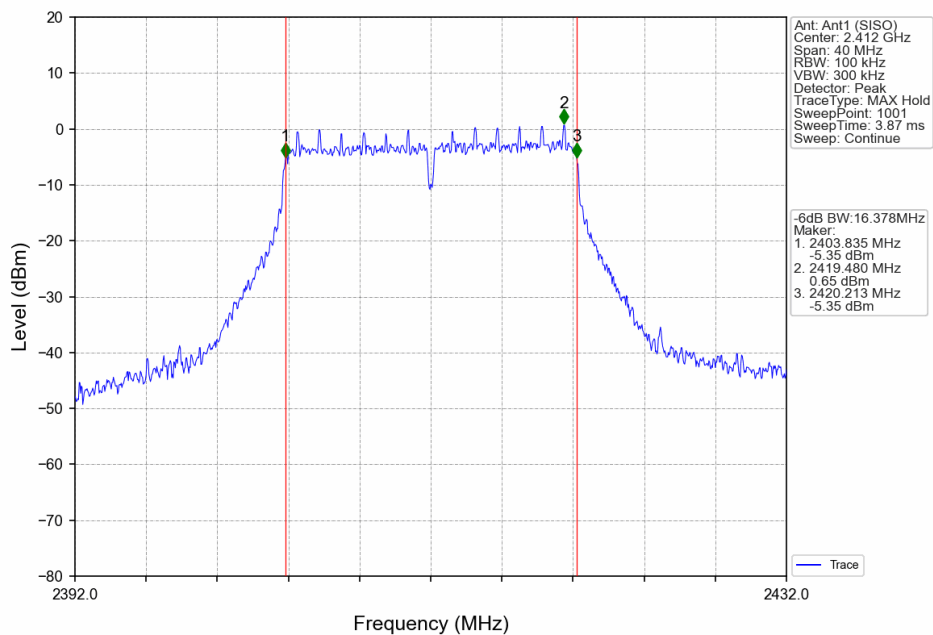


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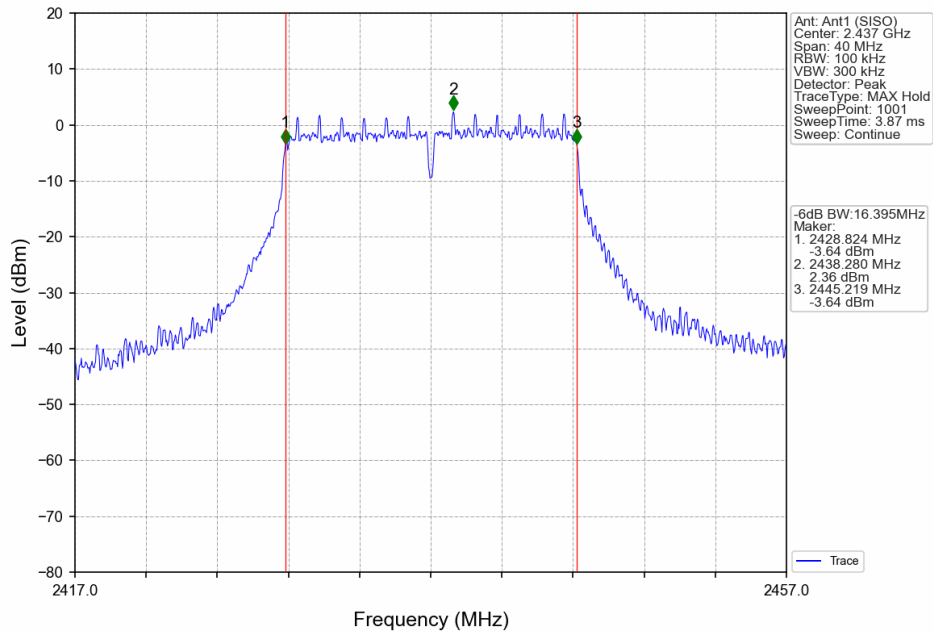
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



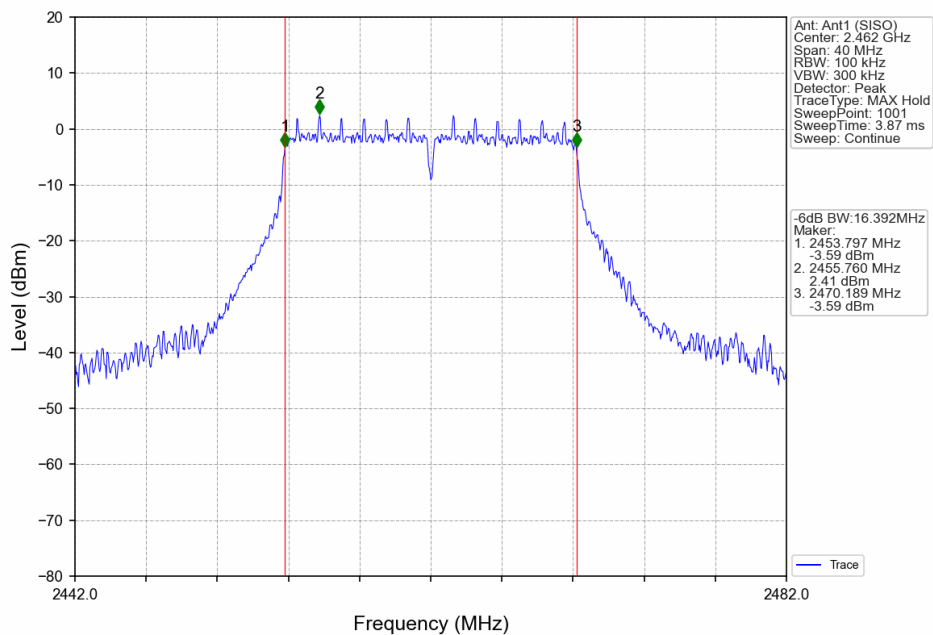
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



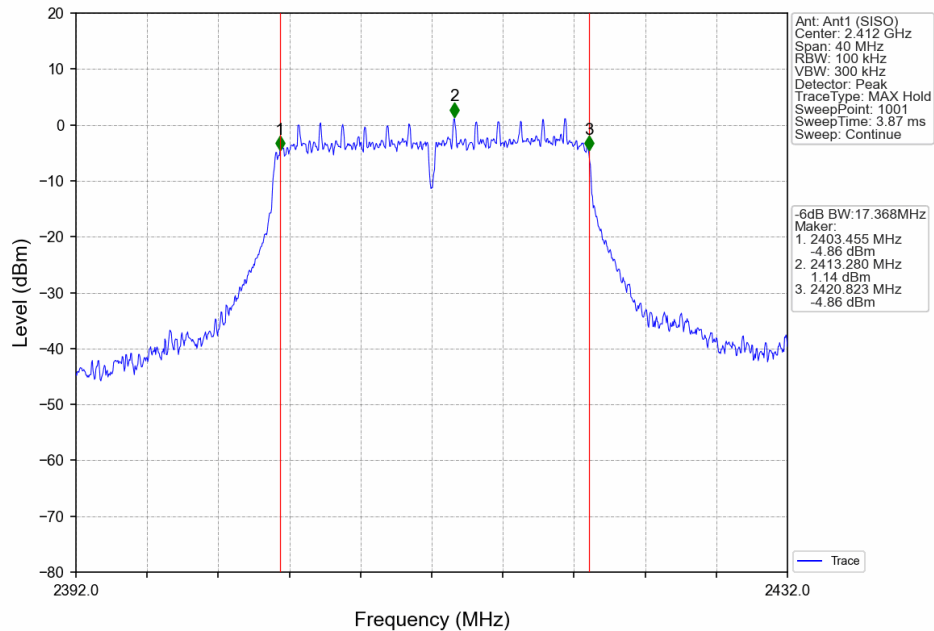
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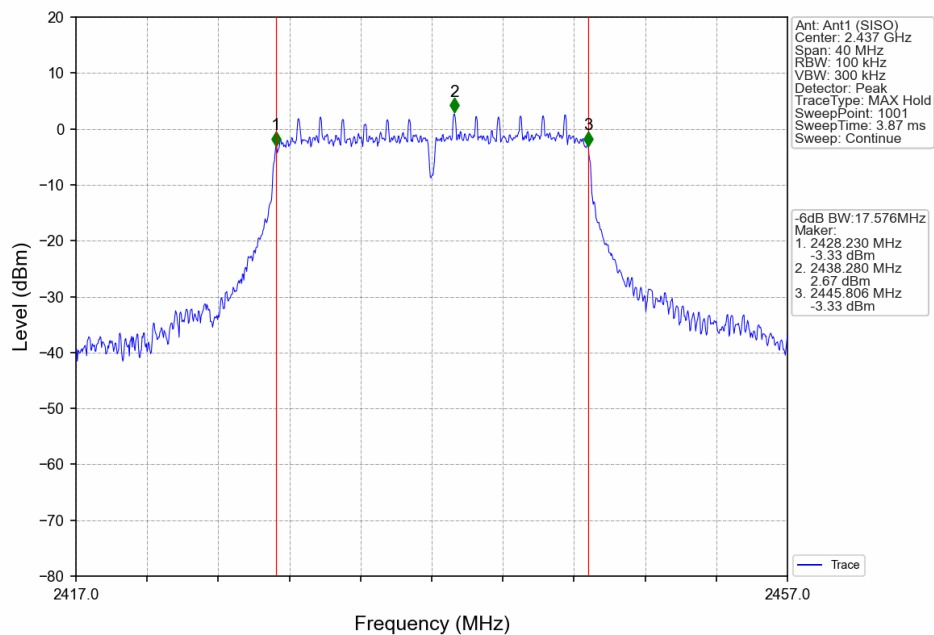
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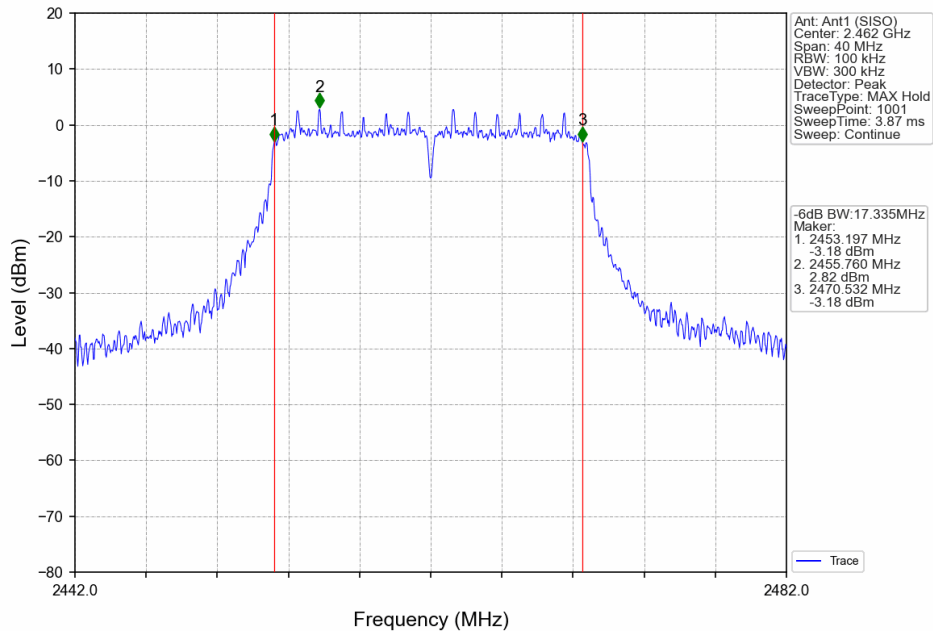
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



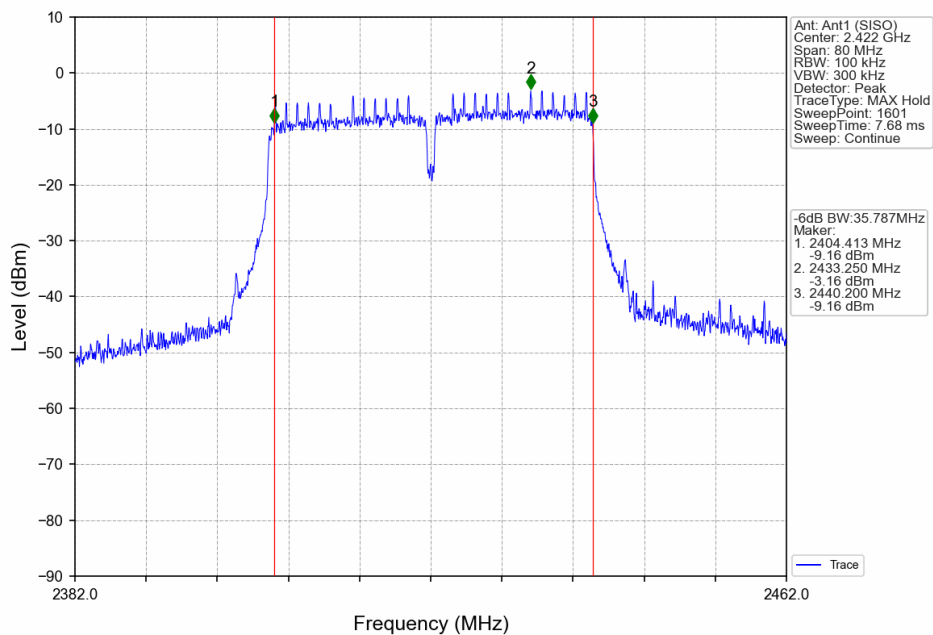
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



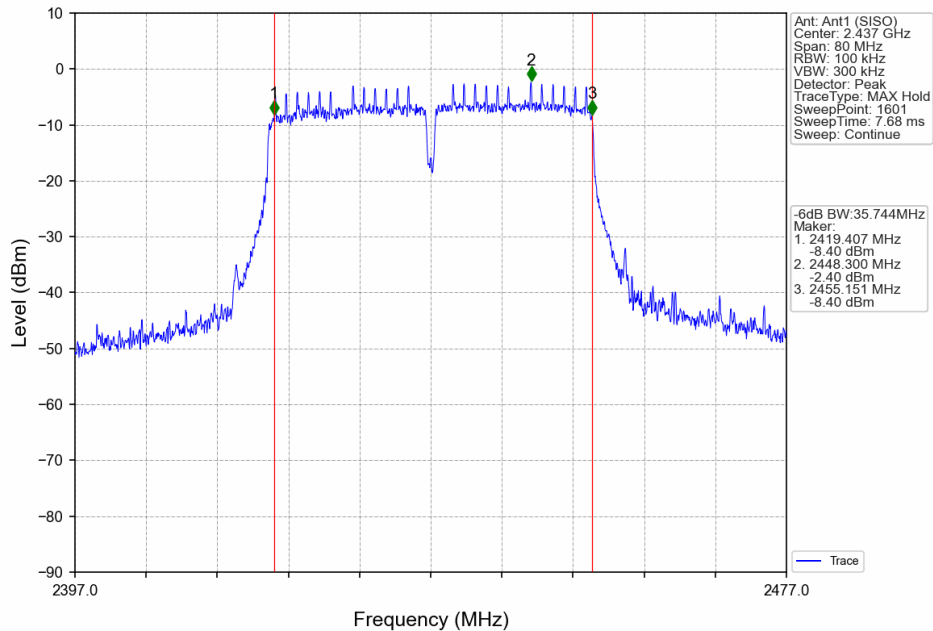
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



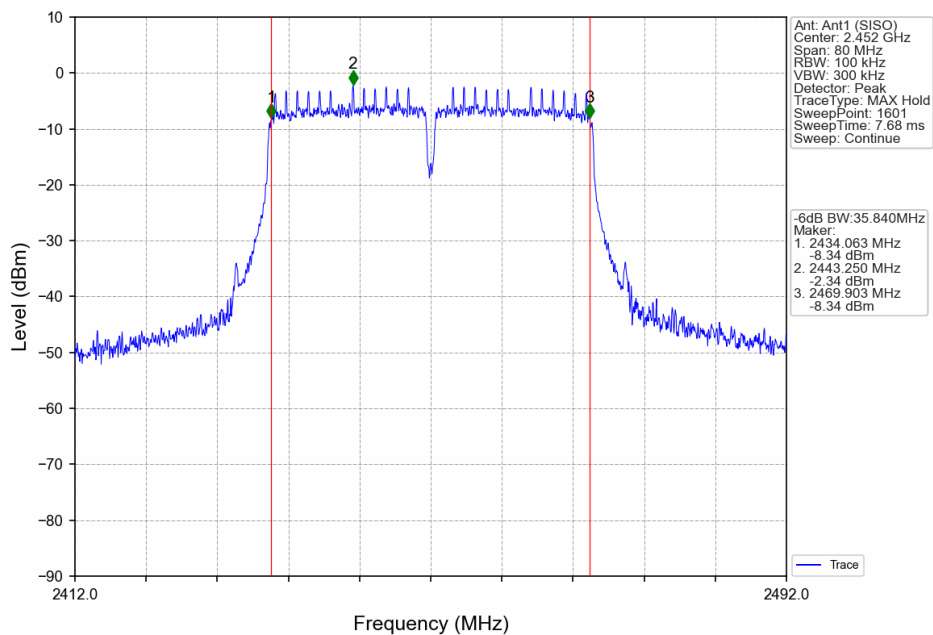
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -



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