

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000042703

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7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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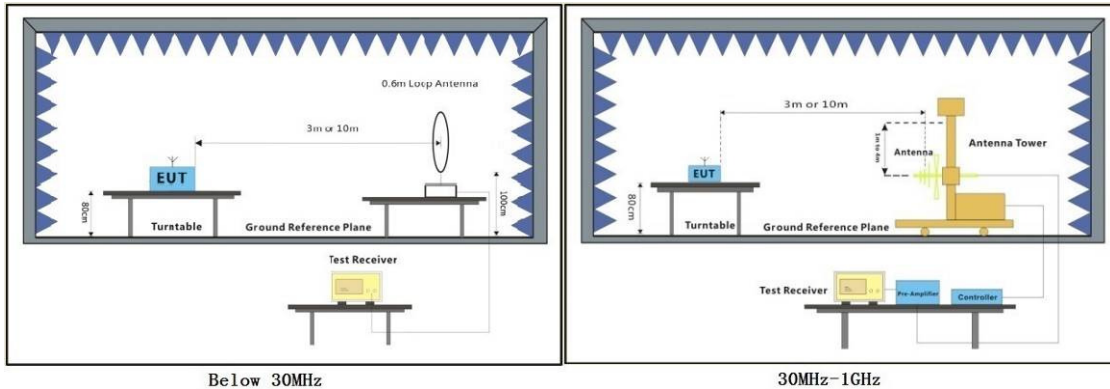
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7.8.3 Test Setup Diagram



7.8.4 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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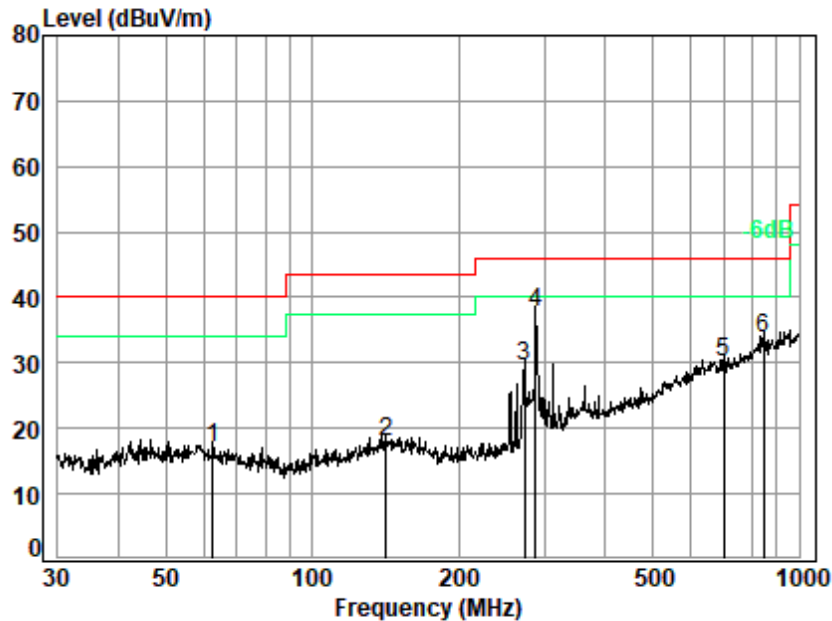
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Test Mode: 05; Polarity: Horizontal Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT
Mode : 05

		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	62.4314	0.27	16.70	25.91	25.87	16.93	40.00	-23.07 QP
2	141.8262	0.96	17.44	25.54	25.16	18.02	43.50	-25.48 QP
3	272.2776	0.92	17.38	25.42	36.55	29.43	46.00	-16.57 QP
4	287.9904	0.97	17.88	25.41	44.18	37.62	46.00	-8.38 QP
5	699.3046	1.73	25.62	24.57	27.39	30.17	46.00	-15.83 QP
6	845.0878	2.91	27.75	24.15	27.27	33.78	46.00	-12.22 QP



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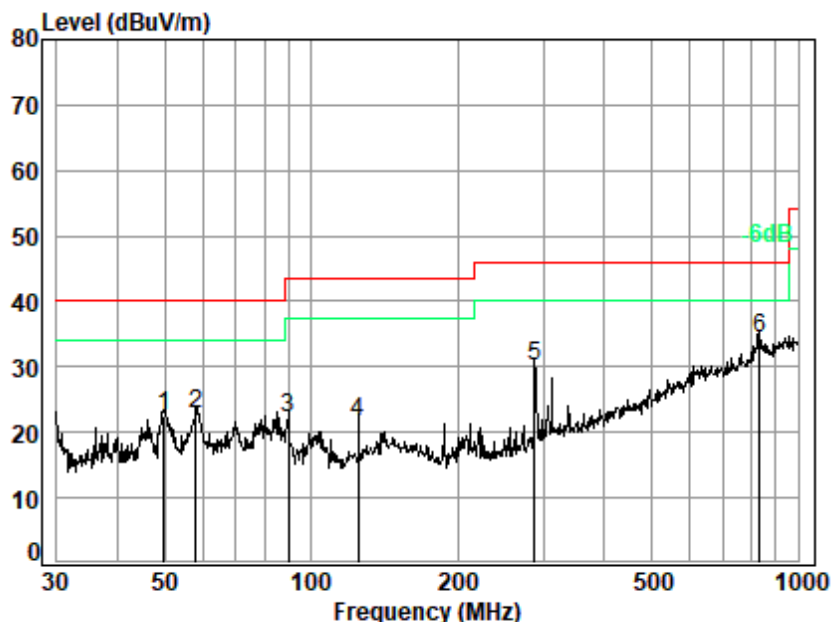
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Test Mode: 05; Polarity: Vertical Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT
Mode : 05

		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	49.7068	0.21	17.36	26.00	30.92	22.49	40.00	-17.51 QP
2	57.7962	0.26	17.02	25.94	31.47	22.81	40.00	-17.19 QP
3	89.9047	0.67	13.61	25.70	33.47	22.05	43.50	-21.45 QP
4	125.0066	0.98	16.17	25.56	30.16	21.75	43.50	-21.75 QP
5	287.9904	0.97	17.88	25.41	36.82	30.26	46.00	-15.74 QP
6	833.3171	2.68	27.76	24.16	28.16	34.44	46.00	-11.56 QP



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7.9 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

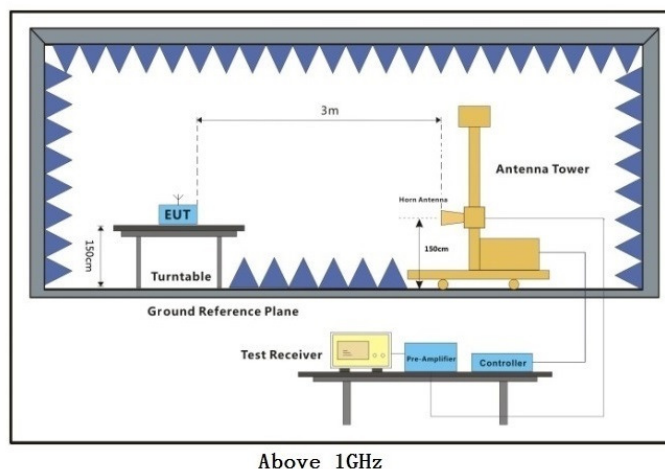
Humidity: 46.6 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

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

Remark:

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



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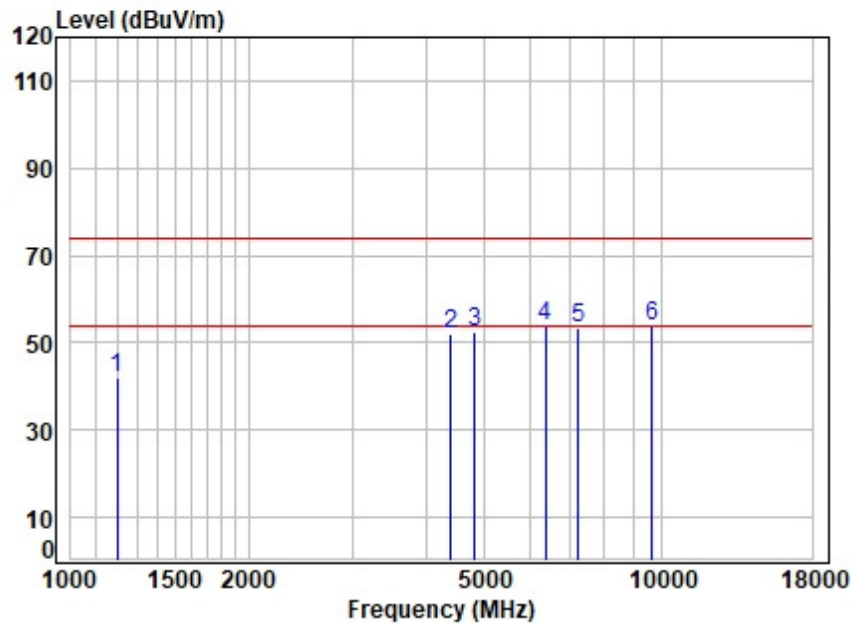
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00427AT/00428AT
 Mode : 2412 TX RSE
 : 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	1196.264	3.14	24.30	52.66	67.38	42.16	74.00	-31.84	peak
2	4405.090	7.47	30.07	52.93	67.24	51.85	74.00	-22.15	peak
3	4824.000	8.02	30.99	53.05	66.41	52.37	74.00	-21.63	peak
4	6358.789	7.68	34.00	53.06	65.02	53.64	74.00	-20.36	peak
5	7236.000	8.31	36.09	53.52	62.54	53.42	74.00	-20.58	peak
6	9648.000	11.38	37.62	53.54	58.45	53.91	74.00	-20.09	peak



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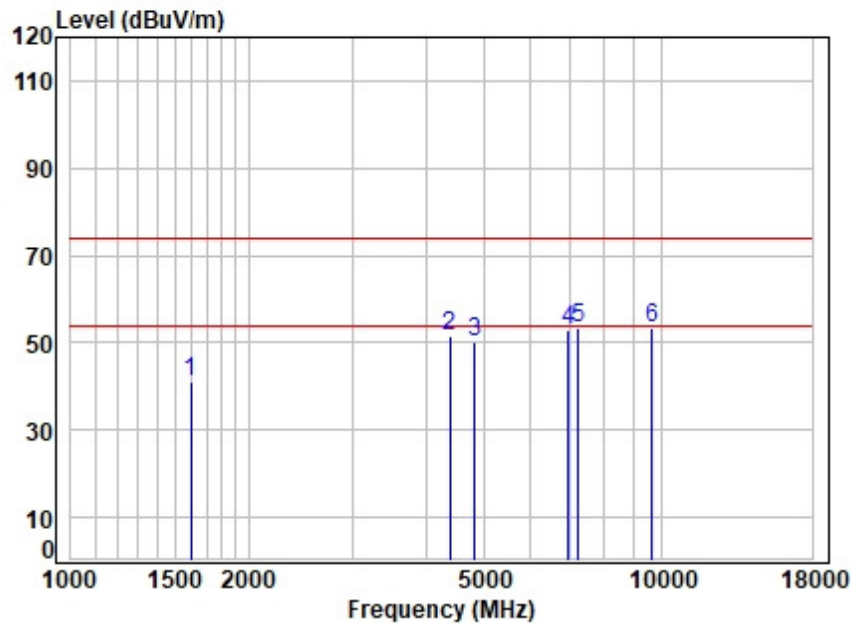
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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT/00428AT
Mode : 2412 TX RSE
: 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	1597.181	3.98	24.79	52.91	65.30	41.16	74.00	-32.84	peak
2	4392.376	7.47	30.06	52.93	67.05	51.65	74.00	-22.35	peak
3	4824.000	8.02	30.99	53.05	64.40	50.36	74.00	-23.64	peak
4	6954.852	8.15	35.70	53.47	62.71	53.09	74.00	-20.91	peak
5	7236.000	8.31	36.09	53.52	62.32	53.20	74.00	-20.80	peak
6	9648.000	11.38	37.62	53.54	58.14	53.60	74.00	-20.40	peak



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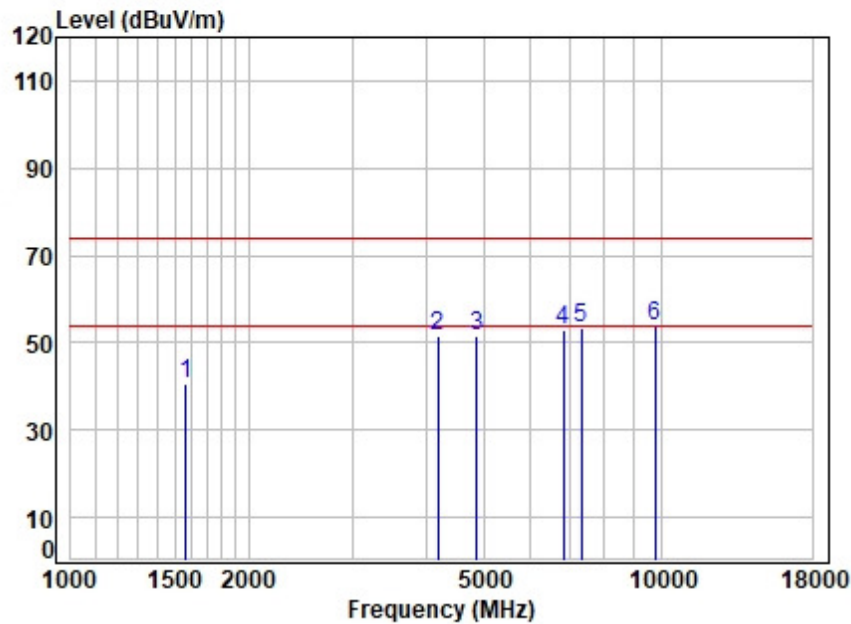
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR221000042703

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT/00428AT
Mode : 2437 TX RSE
: 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	1569.721	3.92	24.71	52.89	64.90	40.64	74.00	-33.36	peak
2	4181.768	7.48	29.76	52.86	67.18	51.56	74.00	-22.44	peak
3	4874.000	8.10	31.11	53.07	65.23	51.37	74.00	-22.63	peak
4	6815.551	8.01	35.37	53.38	62.83	52.83	74.00	-21.17	peak
5	7311.000	8.34	36.18	53.53	62.32	53.31	74.00	-20.69	peak
6	9748.000	11.30	37.84	53.44	58.05	53.75	74.00	-20.25	peak



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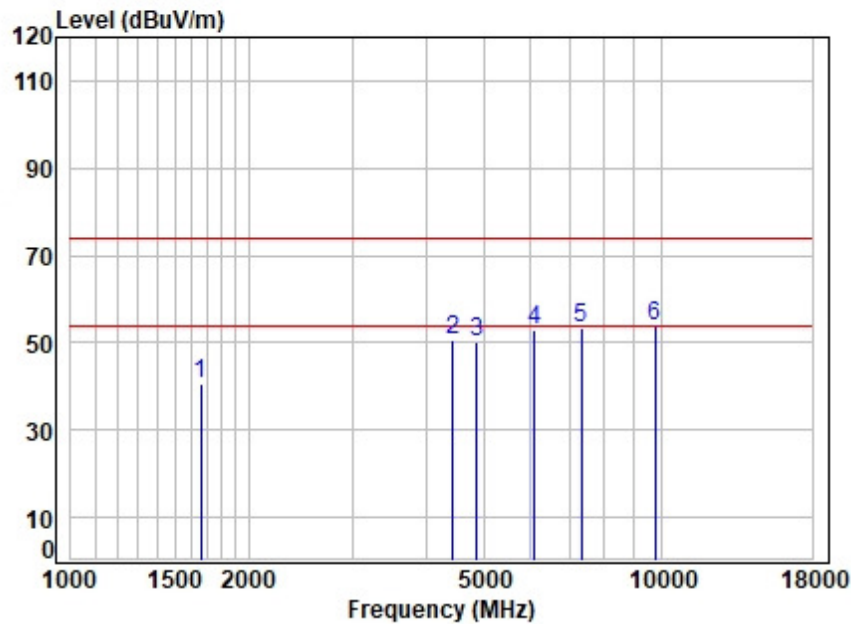
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR221000042703

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00427AT/00428AT
 Mode : 2437 TX RSE
 : 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	1658.337	4.11	24.92	52.94	64.60	40.69	74.00	-33.31	peak
2	4443.453	7.47	30.12	52.94	65.79	50.44	74.00	-23.56	peak
3	4874.000	8.10	31.11	53.07	64.25	50.39	74.00	-23.61	peak
4	6088.991	7.65	32.80	52.87	65.31	52.89	74.00	-21.11	peak
5	7311.000	8.34	36.18	53.53	62.25	53.24	74.00	-20.76	peak
6	9748.000	11.30	37.84	53.44	57.96	53.66	74.00	-20.34	peak



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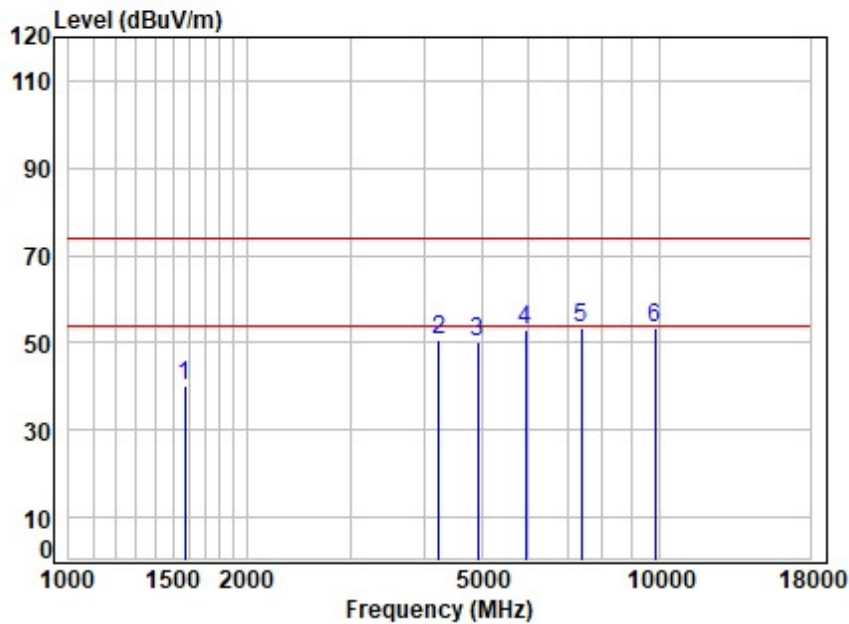
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT/00428AT
Mode : 2462 TX RSE
: 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	1574.265	3.93	24.73	52.89	64.55	40.32	74.00	-33.68	peak
2	4230.396	7.48	29.83	52.88	66.32	50.75	74.00	-23.25	peak
3	4924.000	8.18	31.23	53.08	63.82	50.15	74.00	-23.85	peak
4	5932.638	7.72	32.43	52.82	65.80	53.13	74.00	-20.87	peak
5	7386.000	8.38	36.27	53.54	62.42	53.53	74.00	-20.47	peak
6	9848.000	11.23	38.07	53.35	57.60	53.55	74.00	-20.45	peak



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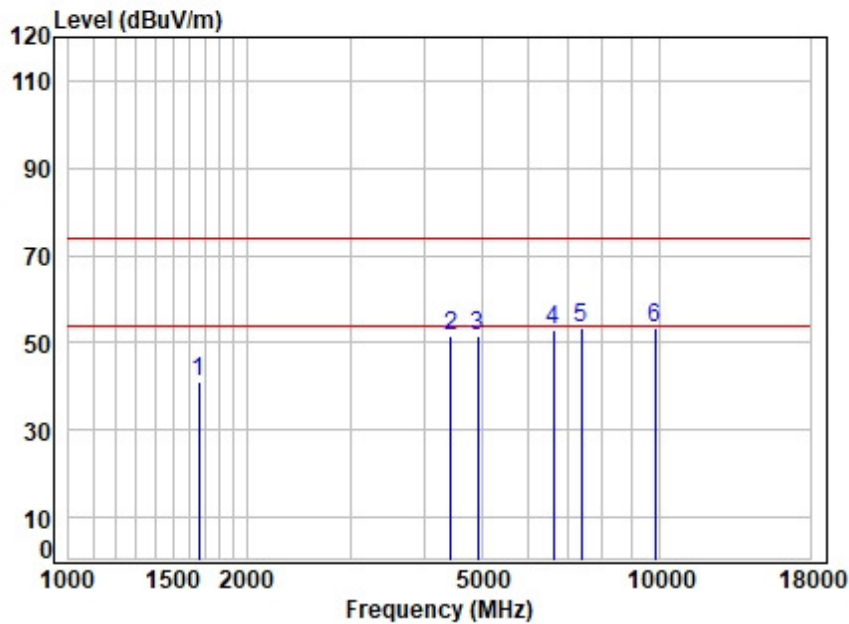
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR221000042703

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT/00428AT
Mode : 2462 TX RSE
: 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	1663.137	4.12	24.93	52.94	64.95	41.06	74.00	-32.94	peak
2	4443.453	7.47	30.12	52.94	67.05	51.70	74.00	-22.30	peak
3	4924.000	8.18	31.23	53.08	65.09	51.42	74.00	-22.58	peak
4	6621.375	7.82	34.90	53.25	63.45	52.92	74.00	-21.08	peak
5	7386.000	8.38	36.27	53.54	62.27	53.38	74.00	-20.62	peak
6	9848.000	11.23	38.07	53.35	57.61	53.56	74.00	-20.44	peak



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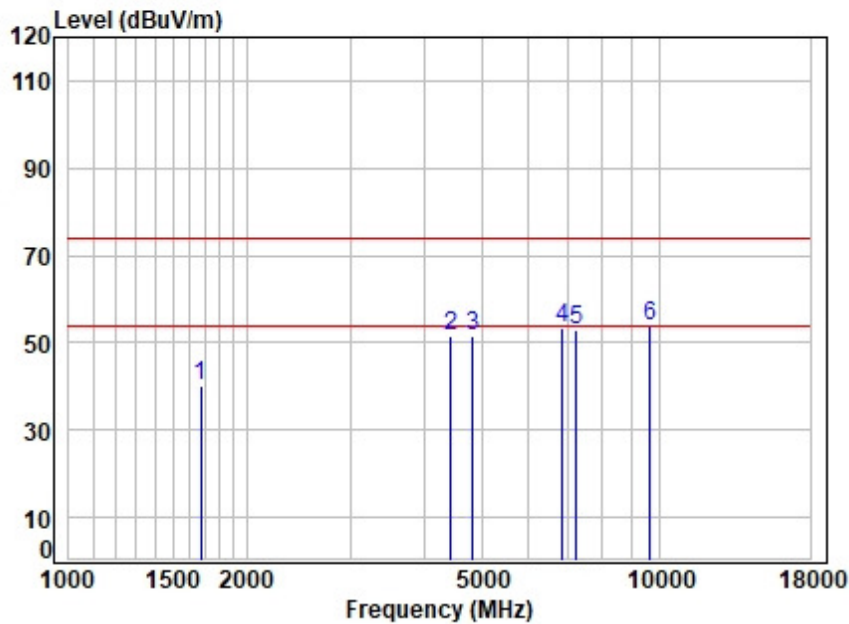
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT/00428AT
Mode : 2412 TX RSE
: 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	1672.779	4.14	24.95	52.95	63.98	40.12	74.00	-33.88	peak
2	4430.628	7.47	30.11	52.94	66.85	51.49	74.00	-22.51	peak
3	4824.000	8.02	30.99	53.05	65.52	51.48	74.00	-22.52	peak
4	6855.063	8.05	35.46	53.40	63.06	53.17	74.00	-20.83	peak
5	7236.000	8.31	36.09	53.52	61.84	52.72	74.00	-21.28	peak
6	9648.000	11.38	37.62	53.54	58.31	53.77	74.00	-20.23	peak



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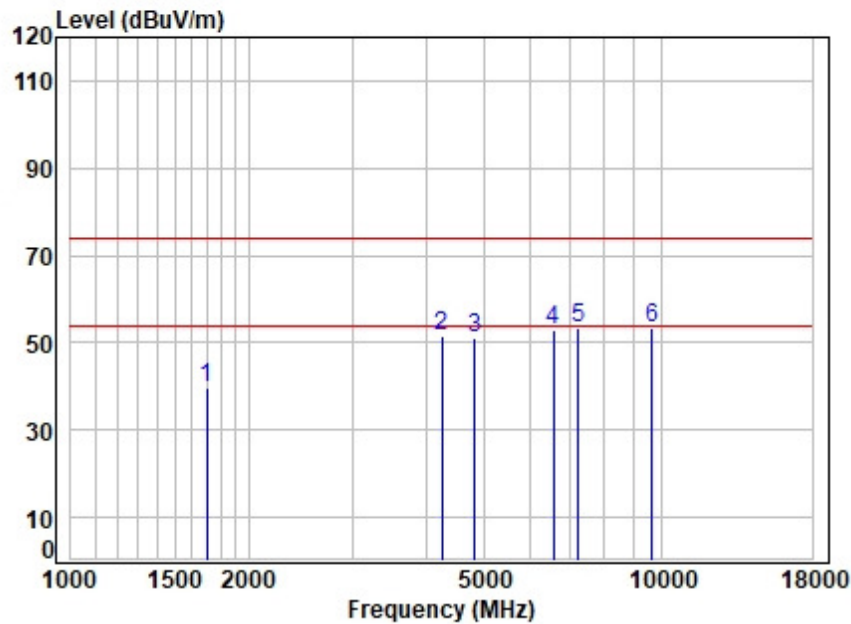
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Report No.: FYCR221000042703

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT/00428AT
Mode : 2412 TX RSE
: 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	1697.129	4.19	25.00	52.96	63.30	39.53	74.00	-34.47	peak
2	4254.921	7.48	29.87	52.88	67.03	51.50	74.00	-22.50	peak
3	4824.000	8.02	30.99	53.05	64.92	50.88	74.00	-23.12	peak
4	6564.209	7.76	34.76	53.21	63.43	52.74	74.00	-21.26	peak
5	7236.000	8.31	36.09	53.52	62.29	53.17	74.00	-20.83	peak
6	9648.000	11.38	37.62	53.54	57.89	53.35	74.00	-20.65	peak



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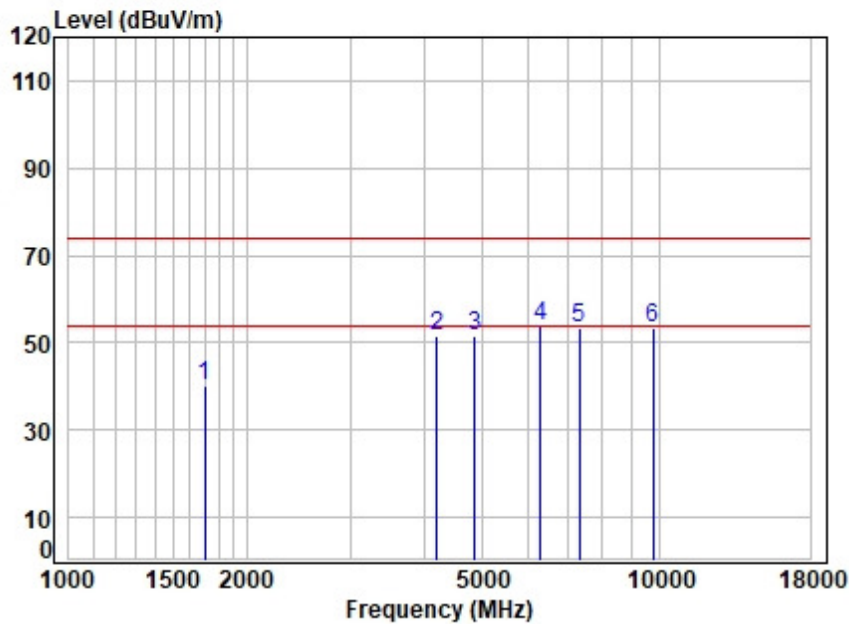
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00427AT/00428AT
 Mode : 2437 TX RSE
 : 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	1697.129	4.19	25.00	52.96	64.12	40.35	74.00	-33.65	peak
2	4193.872	7.48	29.78	52.86	67.14	51.54	74.00	-22.46	peak
3	4874.000	8.10	31.11	53.07	65.22	51.36	74.00	-22.64	peak
4	6285.695	7.67	33.68	53.01	65.34	53.68	74.00	-20.32	peak
5	7311.000	8.34	36.18	53.53	62.39	53.38	74.00	-20.62	peak
6	9748.000	11.30	37.84	53.44	57.82	53.52	74.00	-20.48	peak



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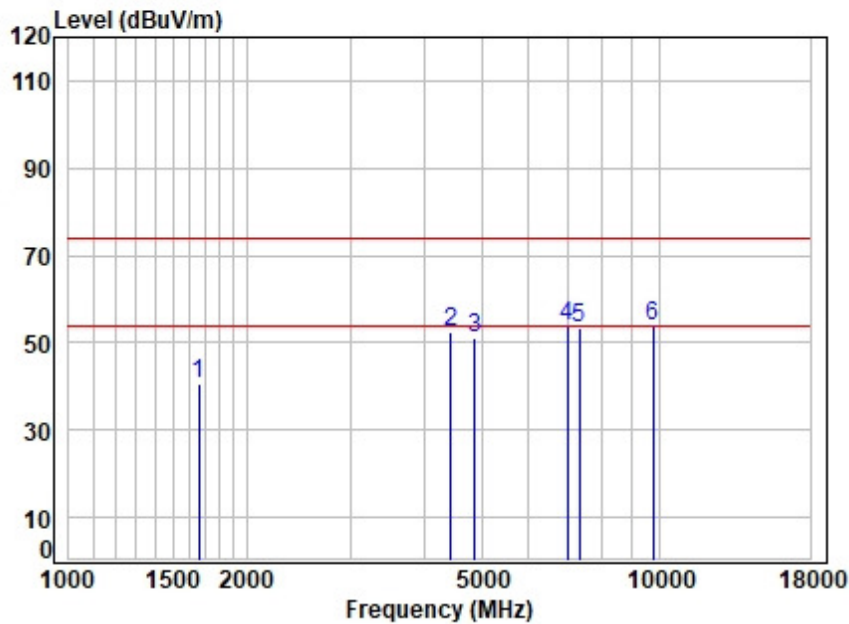
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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT/00428AT
Mode : 2437 TX RSE
: 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	1658.337	4.11	24.92	52.94	64.32	40.41	74.00	-33.59	peak
2	4443.453	7.47	30.12	52.94	67.67	52.32	74.00	-21.68	peak
3	4874.000	8.10	31.11	53.07	64.82	50.96	74.00	-23.04	peak
4	6995.172	8.19	35.79	53.50	63.38	53.86	74.00	-20.14	peak
5	7311.000	8.34	36.18	53.53	62.38	53.37	74.00	-20.63	peak
6	9748.000	11.30	37.84	53.44	57.93	53.63	74.00	-20.37	peak



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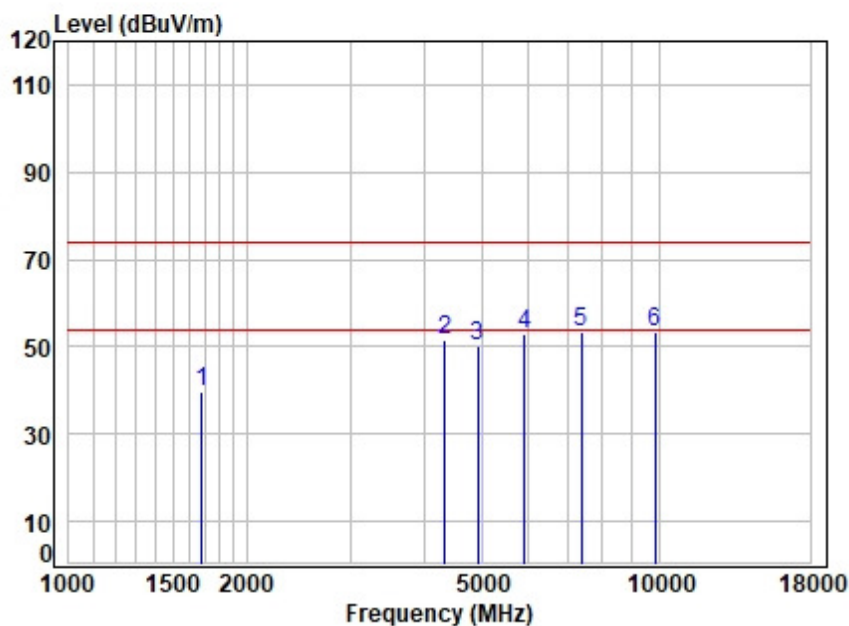
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT/00428AT
Mode : 2462 TX RSE
: 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	1677.621	4.15	24.96	52.95	63.74	39.90	74.00	-34.10	peak
2	4329.354	7.48	29.97	52.91	66.84	51.38	74.00	-22.62	peak
3	4924.000	8.18	31.23	53.08	63.96	50.29	74.00	-23.71	peak
4	5915.516	7.74	32.43	52.82	65.70	53.05	74.00	-20.95	peak
5	7386.000	8.38	36.27	53.54	62.23	53.34	74.00	-20.66	peak
6	9848.000	11.23	38.07	53.35	57.28	53.23	74.00	-20.77	peak



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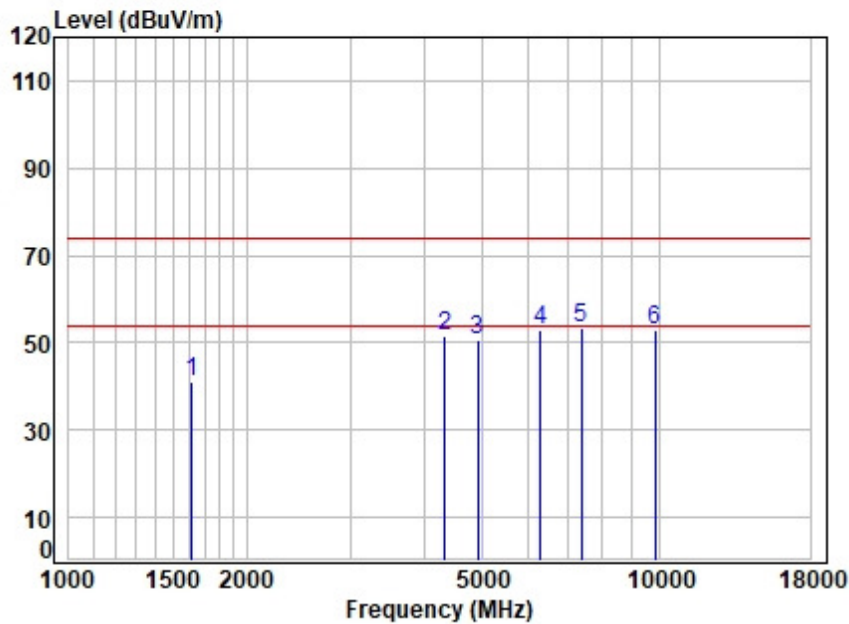
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000042703

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT/00428AT
Mode : 2462 TX RSE
: 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	1615.754	4.02	24.83	52.92	65.16	41.09	74.00	-32.91	peak
2	4329.354	7.48	29.97	52.91	66.91	51.45	74.00	-22.55	peak
3	4924.000	8.18	31.23	53.08	64.43	50.76	74.00	-23.24	peak
4	6285.695	7.67	33.68	53.01	64.53	52.87	74.00	-21.13	peak
5	7386.000	8.38	36.27	53.54	62.46	53.57	74.00	-20.43	peak
6	9848.000	11.23	38.07	53.35	57.16	53.11	74.00	-20.89	peak



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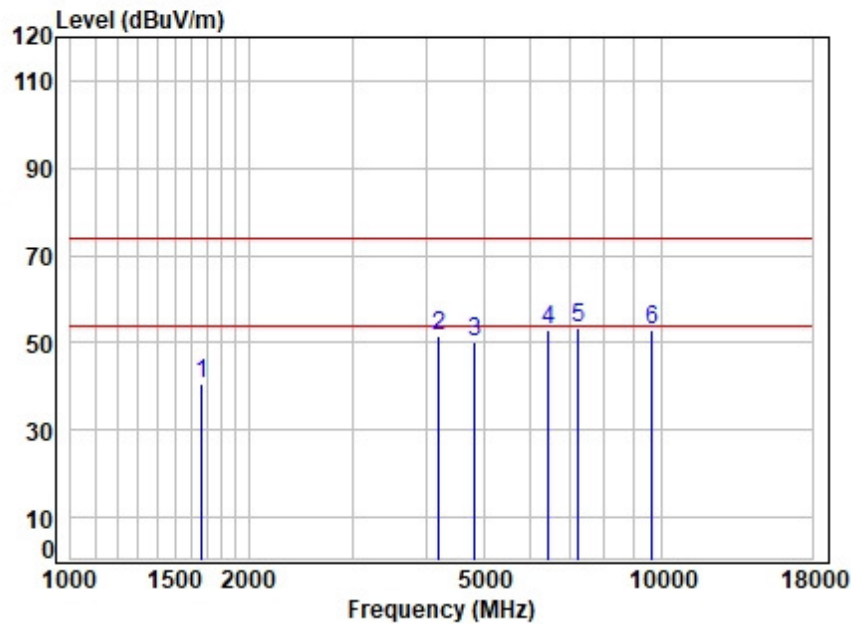
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT/00428AT
Mode : 2412 TX RSE
: 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	1667.951	4.13	24.94	52.94	64.43	40.56	74.00	-33.44	peak
2	4206.011	7.48	29.80	52.87	66.98	51.39	74.00	-22.61	peak
3	4824.000	8.02	30.99	53.05	64.22	50.18	74.00	-23.82	peak
4	6432.732	7.69	34.31	53.12	63.92	52.80	74.00	-21.20	peak
5	7236.000	8.31	36.09	53.52	62.44	53.32	74.00	-20.68	peak
6	9648.000	11.38	37.62	53.54	57.41	52.87	74.00	-21.13	peak



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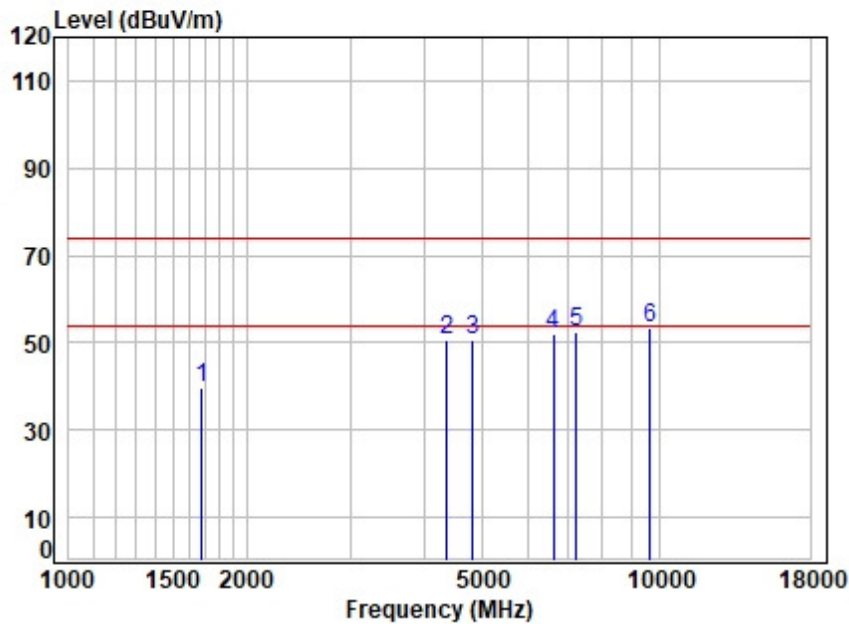
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000042703

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT/00428AT
Mode : 2412 TX RSE
: 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	1682.477	4.16	24.97	52.95	63.54	39.72	74.00	-34.28	peak
2	4367.058	7.48	30.02	52.92	66.05	50.63	74.00	-23.37	peak
3	4824.000	8.02	30.99	53.05	64.49	50.45	74.00	-23.55	peak
4	6621.375	7.82	34.90	53.25	62.60	52.07	74.00	-21.93	peak
5	7236.000	8.31	36.09	53.52	61.62	52.50	74.00	-21.50	peak
6	9648.000	11.38	37.62	53.54	58.07	53.53	74.00	-20.47	peak



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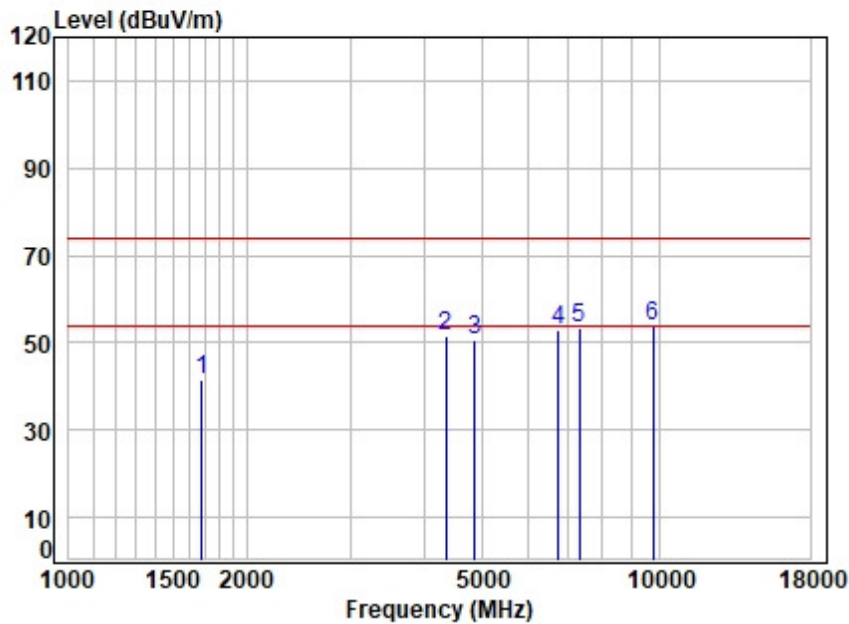
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000042703

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT/00428AT
Mode : 2437 TX RSE
: 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	1677.621	4.15	24.96	52.95	65.27	41.43	74.00	-32.57	peak
2	4354.454	7.48	30.00	52.91	66.82	51.39	74.00	-22.61	peak
3	4874.000	8.10	31.11	53.07	64.58	50.72	74.00	-23.28	peak
4	6756.708	7.96	35.23	53.34	62.99	52.84	74.00	-21.16	peak
5	7311.000	8.34	36.18	53.53	62.39	53.38	74.00	-20.62	peak
6	9748.000	11.30	37.84	53.44	58.14	53.84	74.00	-20.16	peak



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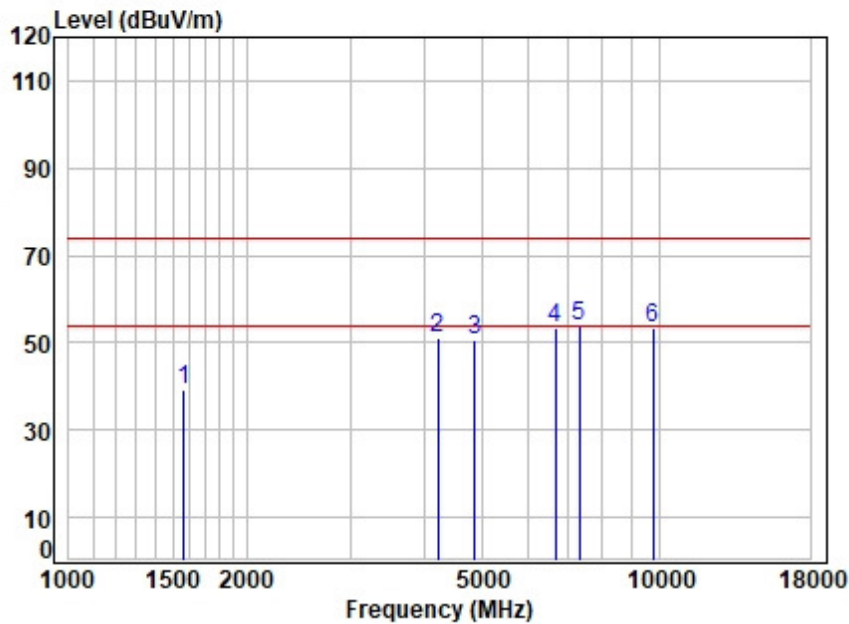
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000042703

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00427AT/00428AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

		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	1569.721	3.92	24.71	52.89	63.57	39.31	74.00	-34.69 peak
2	4218.186	7.48	29.82	52.87	66.63	51.06	74.00	-22.94 peak
3	4874.000	8.10	31.11	53.07	64.43	50.57	74.00	-23.43 peak
4	6659.763	7.86	34.99	53.27	63.98	53.56	74.00	-20.44 peak
5	7311.000	8.34	36.18	53.53	62.76	53.75	74.00	-20.25 peak
6	9748.000	11.30	37.84	53.44	57.48	53.18	74.00	-20.82 peak



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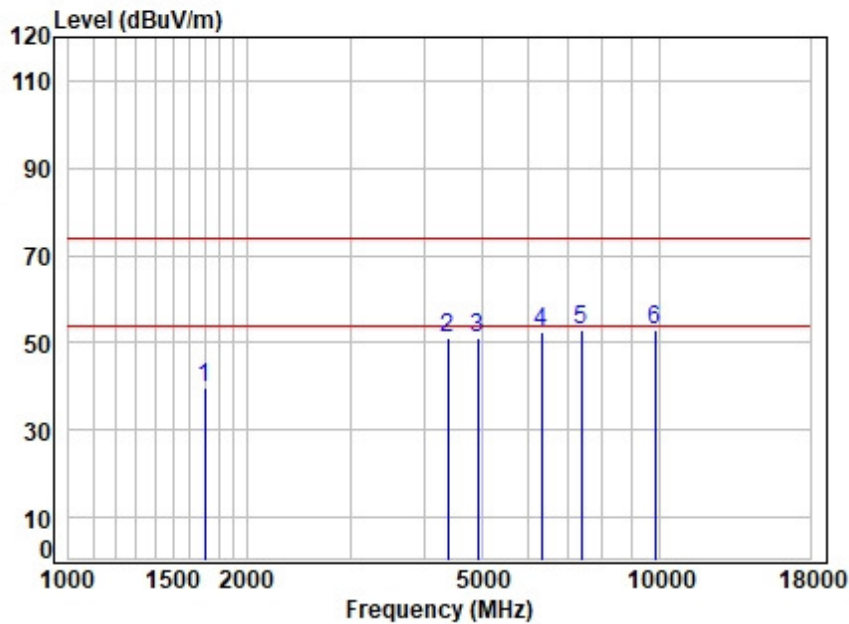
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Report No.: FYCR221000042703

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00427AT/00428AT
 Mode : 2462 TX RSE
 : 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	1702.042	4.20	25.01	52.96	63.43	39.68	74.00	-34.32	peak
2	4379.699	7.47	30.04	52.92	66.51	51.10	74.00	-22.90	peak
3	4924.000	8.18	31.23	53.08	64.70	51.03	74.00	-22.97	peak
4	6322.136	7.68	33.84	53.04	63.93	52.41	74.00	-21.59	peak
5	7386.000	8.38	36.27	53.54	61.82	52.93	74.00	-21.07	peak
6	9848.000	11.23	38.07	53.35	57.04	52.99	74.00	-21.01	peak



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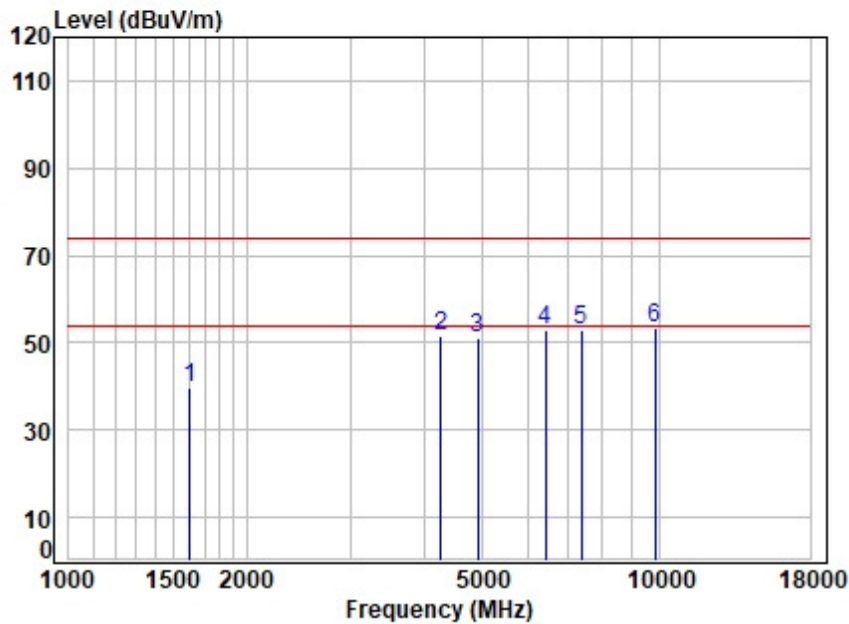
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00427AT/00428AT
Mode : 2462 TX RSE
: 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	1606.441	4.00	24.81	52.91	63.71	39.61	74.00	-34.39	peak
2	4267.237	7.48	29.88	52.89	67.19	51.66	74.00	-22.34	peak
3	4924.000	8.18	31.23	53.08	64.81	51.14	74.00	-22.86	peak
4	6414.167	7.69	34.23	53.10	64.06	52.88	74.00	-21.12	peak
5	7386.000	8.38	36.27	53.54	61.86	52.97	74.00	-21.03	peak
6	9848.000	11.23	38.07	53.35	57.25	53.20	74.00	-20.80	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2210000427AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2210000427AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.420	8.954	94.04	0.27	0.04
		2437	8.420	8.953	94.05	0.27	0.04
		2462	8.420	9.480	88.82	0.51	0.04
802.11g	SISO	2412	1.397	1.435	97.35	0.12	0.03
		2437	1.397	1.585	88.14	0.55	0.09
		2462	1.397	1.673	83.50	0.78	0.09
802.11n (HT20)	SISO	2412	1.309	1.733	75.53	1.22	0.05
		2437	1.309	1.815	72.12	1.42	0.03
		2462	1.309	1.569	83.43	0.79	0.01



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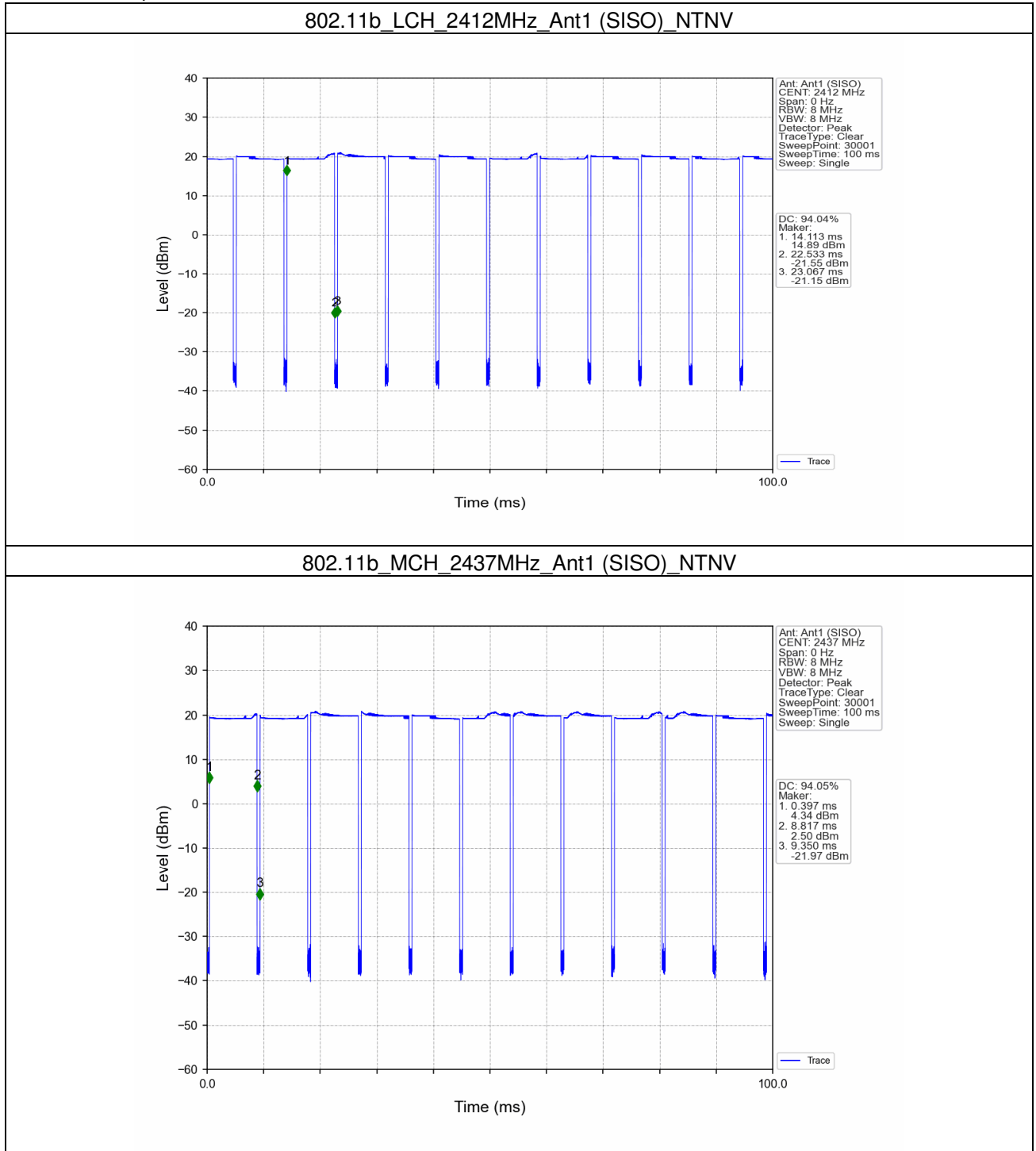
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1.1.2 Test Graph



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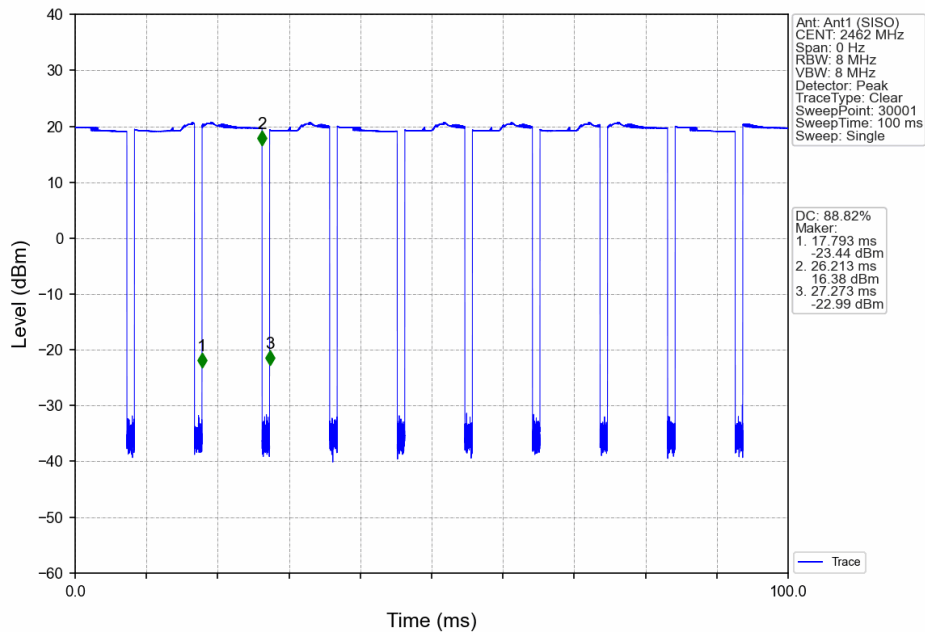
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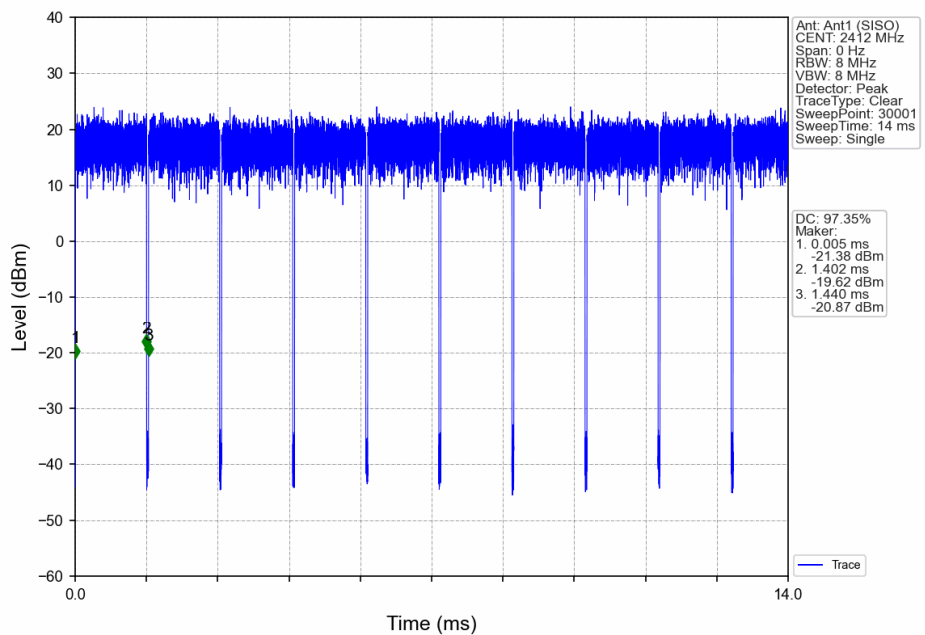
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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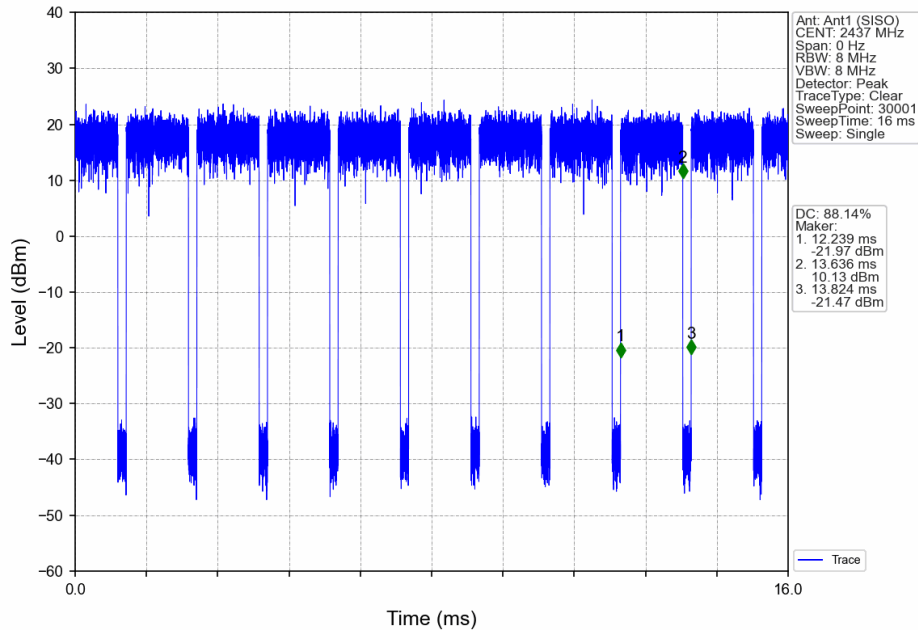
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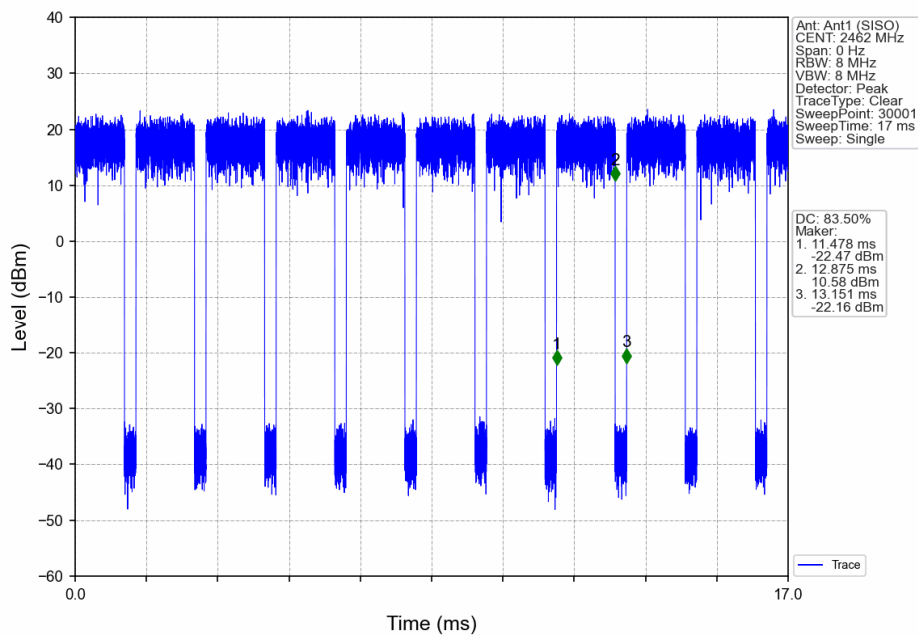
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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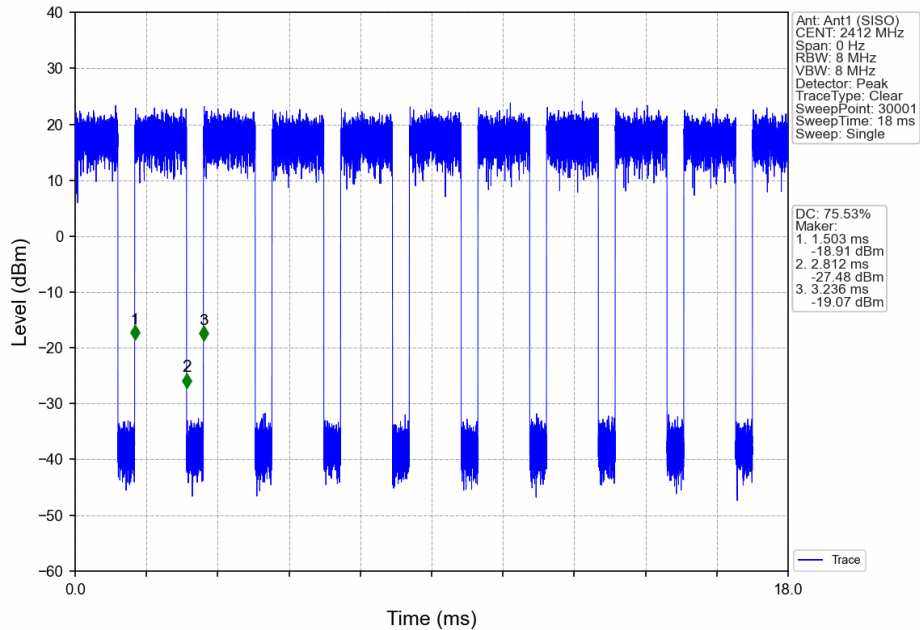
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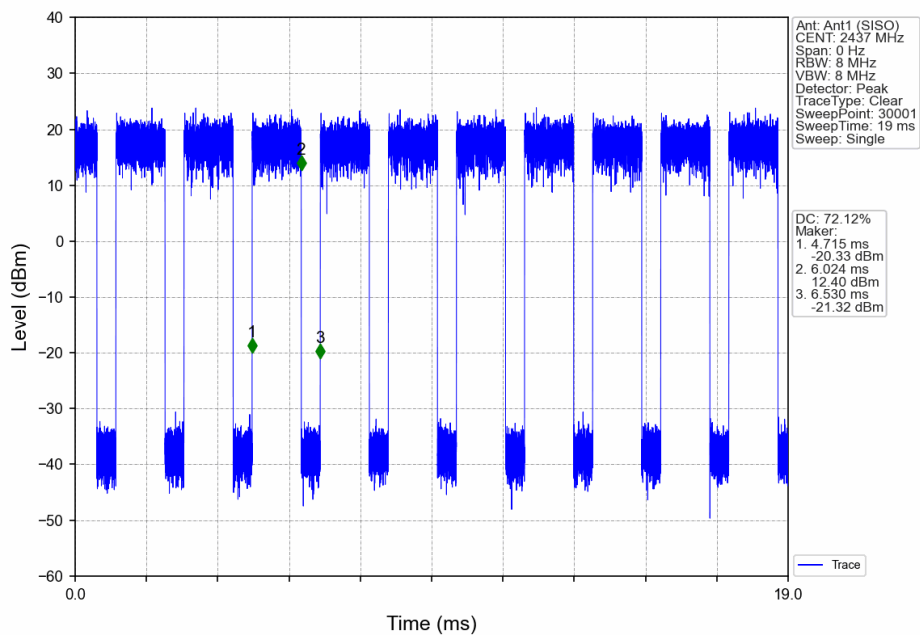
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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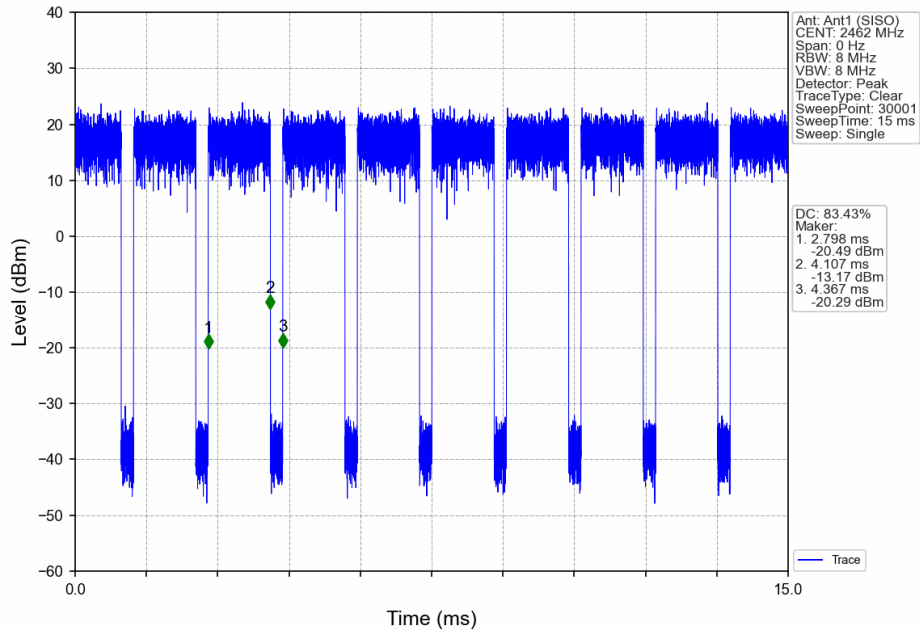
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	14.102	Pass
		2437	1	14.079	Pass
		2462	1	14.075	Pass
802.11g	SISO	2412	1	17.385	Pass
		2437	1	17.346	Pass
		2462	1	17.347	Pass
802.11n (HT20)	SISO	2412	1	18.358	Pass
		2437	1	18.360	Pass
		2462	1	18.340	Pass



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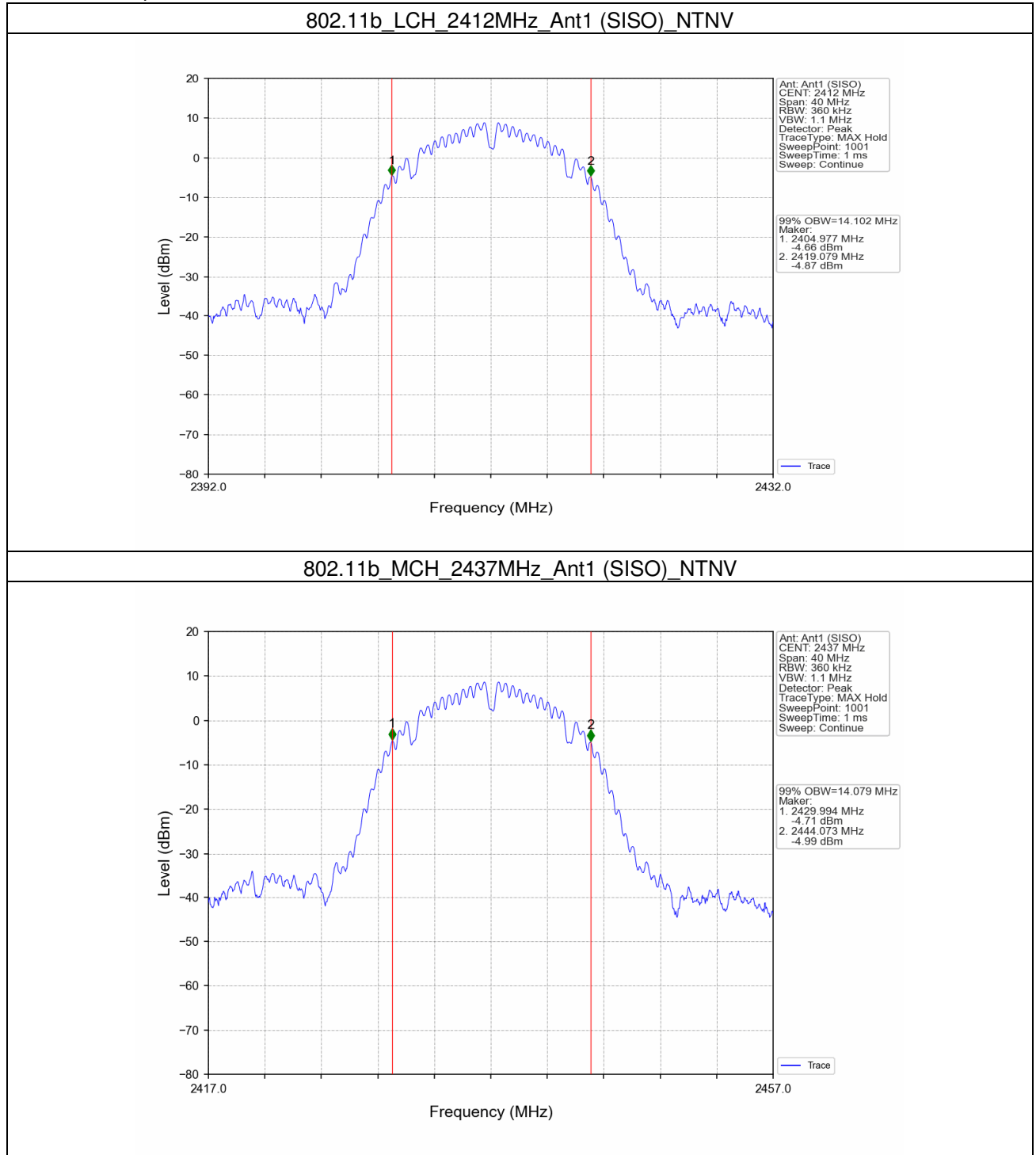
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2.1.2 Test Graph



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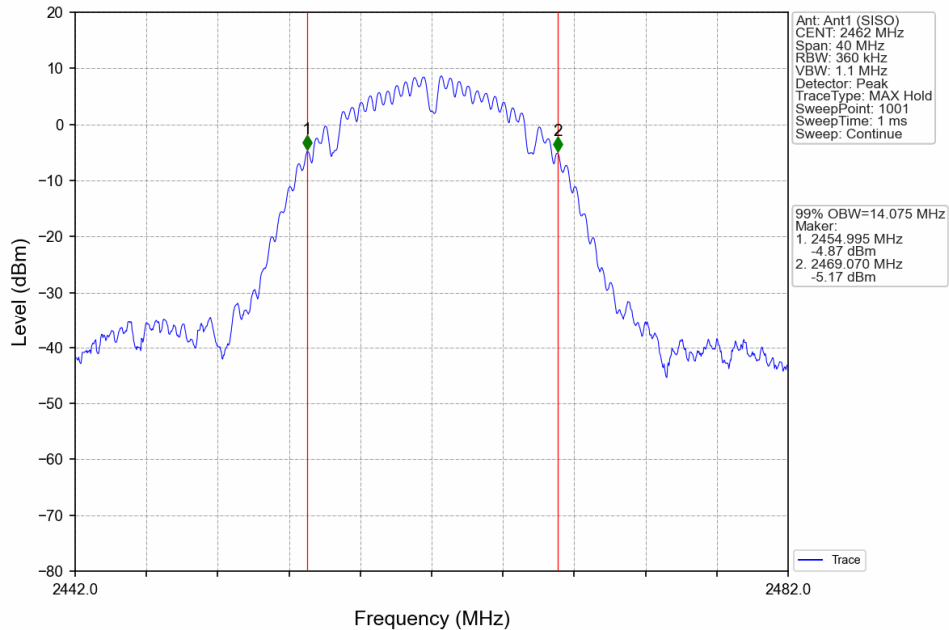
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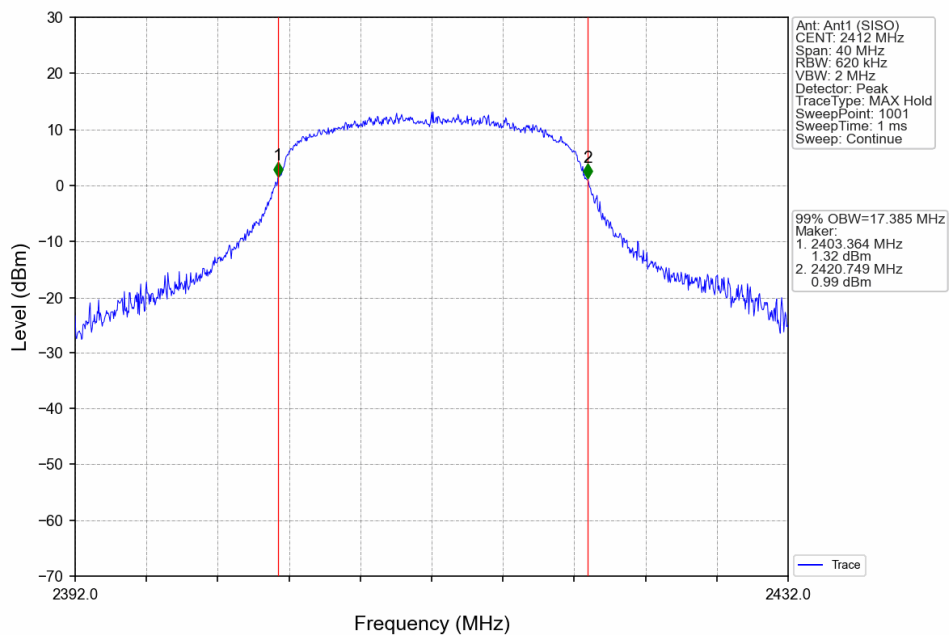
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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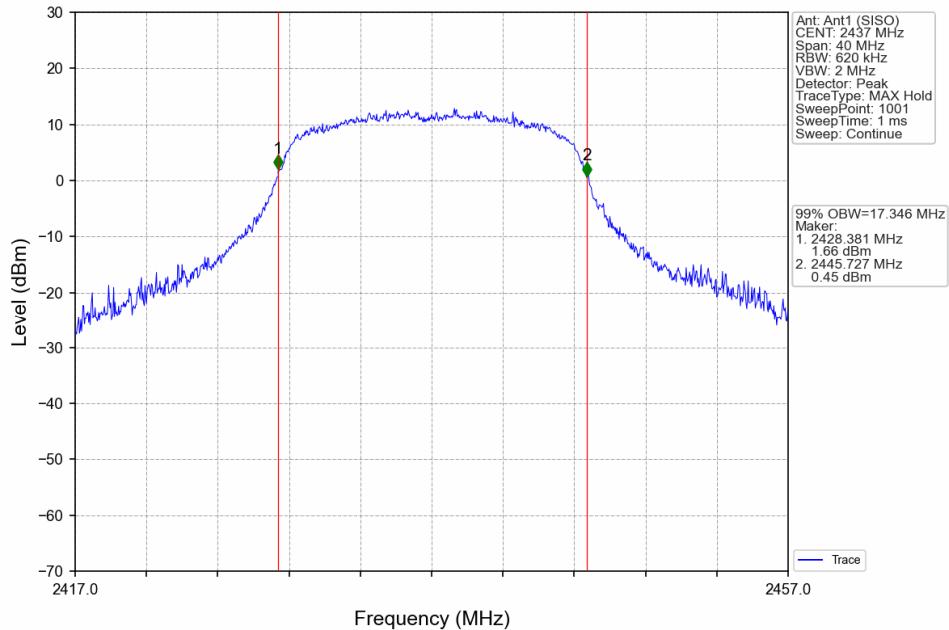
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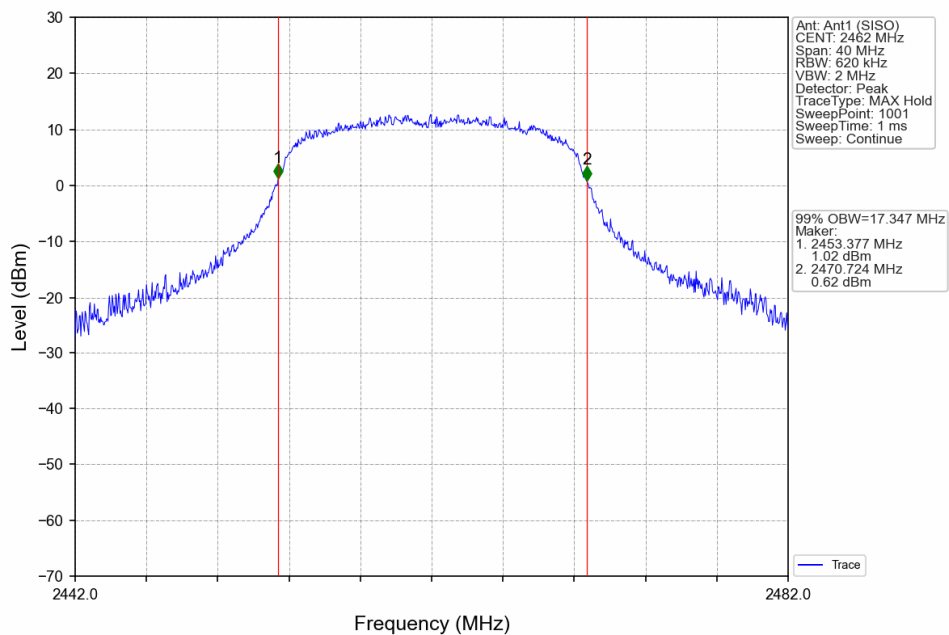
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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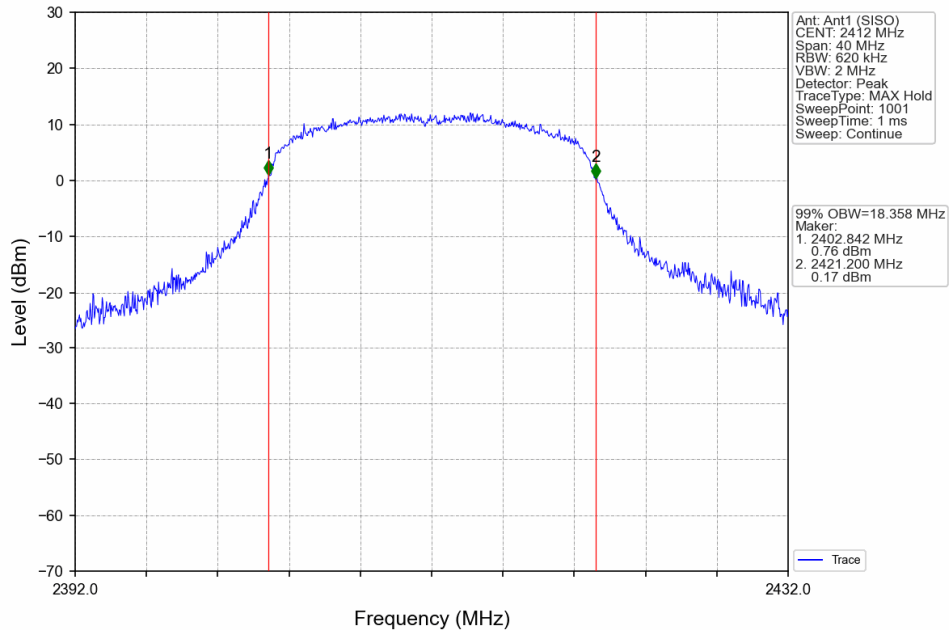
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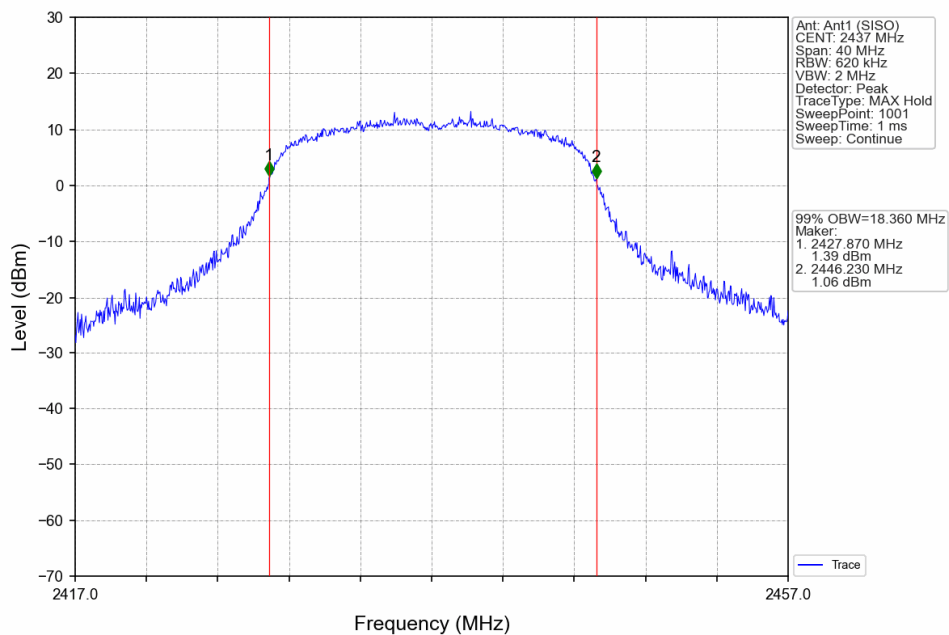
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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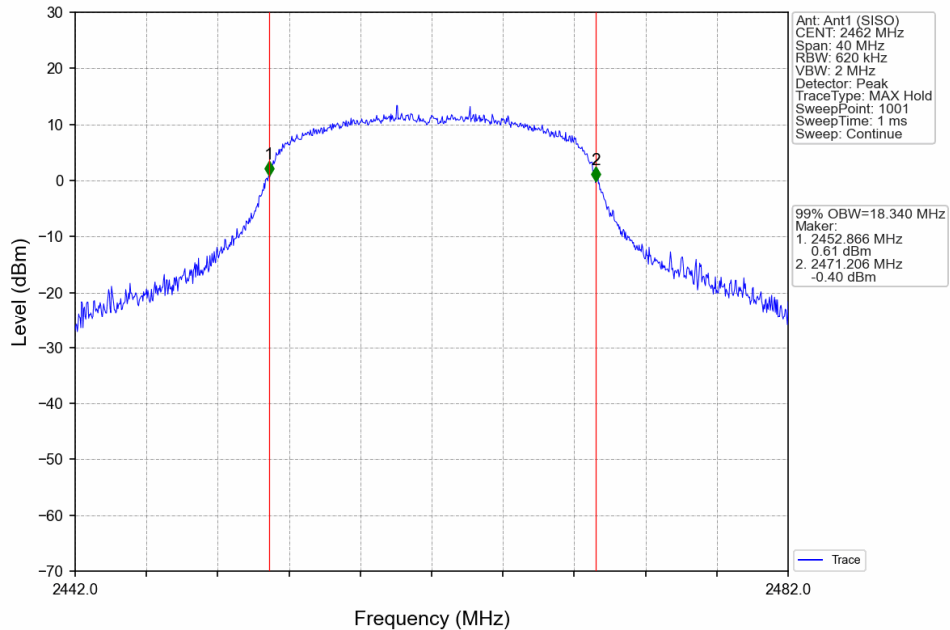
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	8.577	≥ 0.5	Pass
		2437	1	9.058	≥ 0.5	Pass
		2462	1	9.070	≥ 0.5	Pass
802.11g	SISO	2412	1	15.148	≥ 0.5	Pass
		2437	1	15.144	≥ 0.5	Pass
		2462	1	15.138	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.154	≥ 0.5	Pass
		2437	1	15.154	≥ 0.5	Pass
		2462	1	15.154	≥ 0.5	Pass



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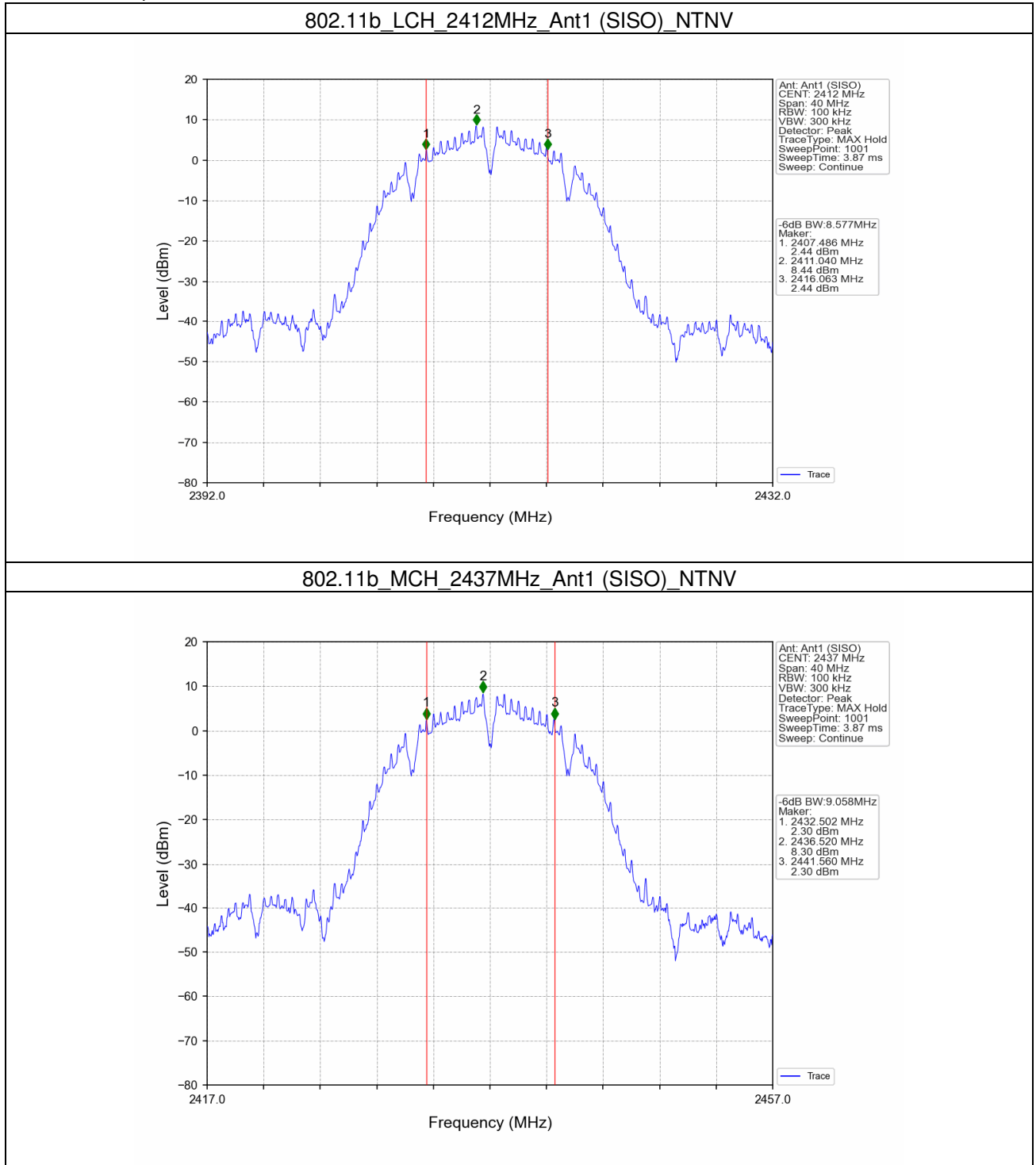
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2.2.2 Test Graph



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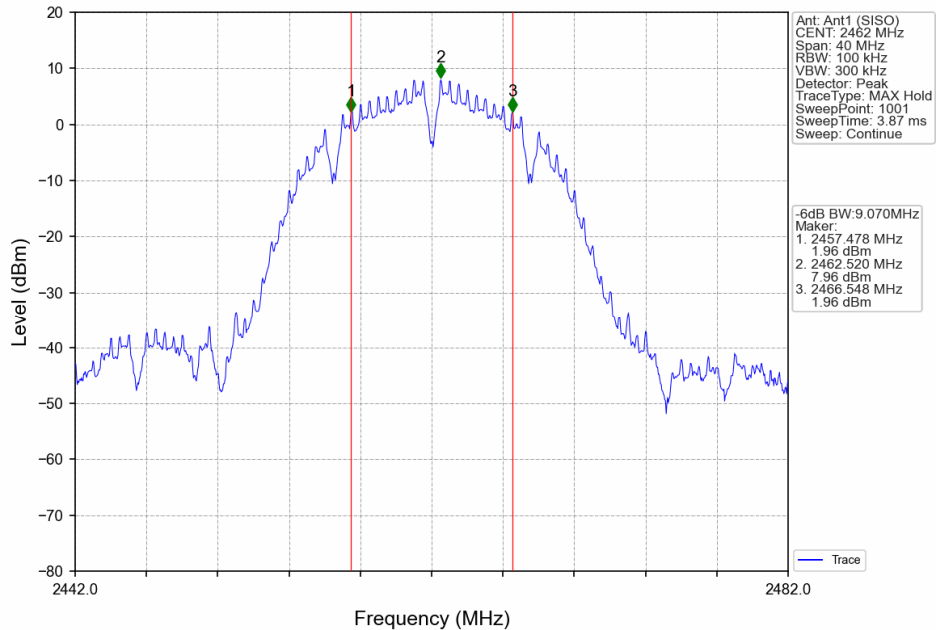
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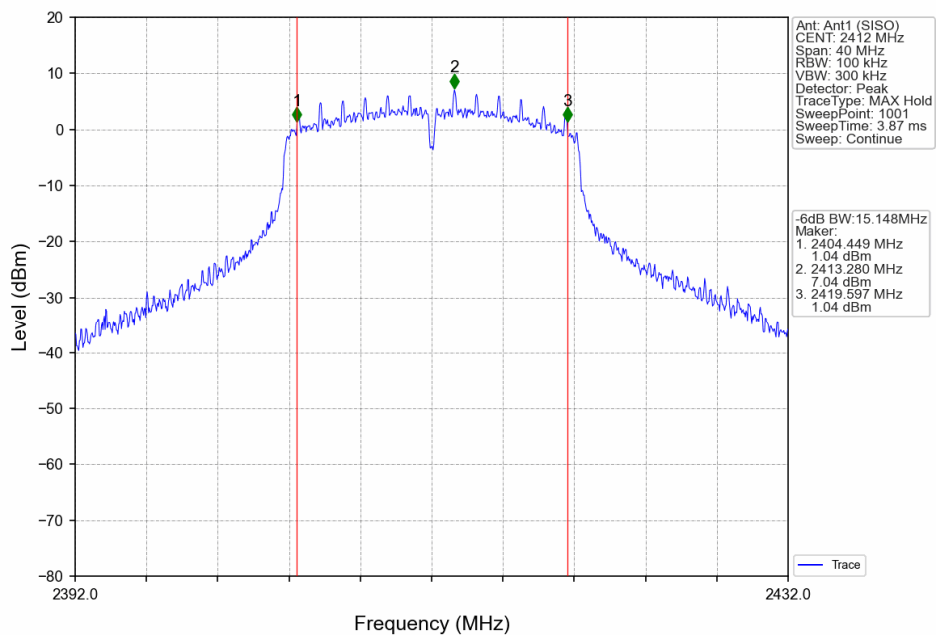
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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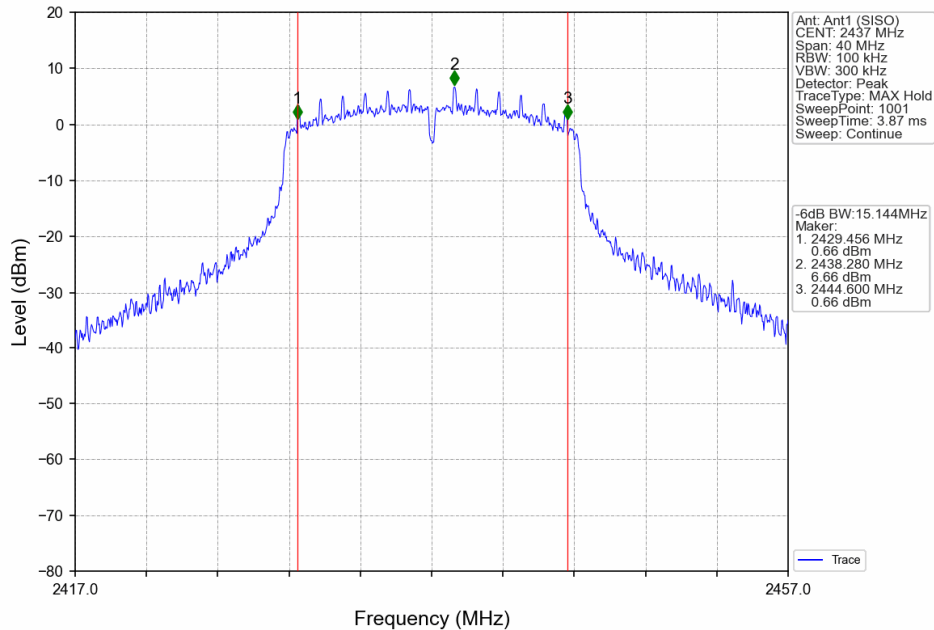
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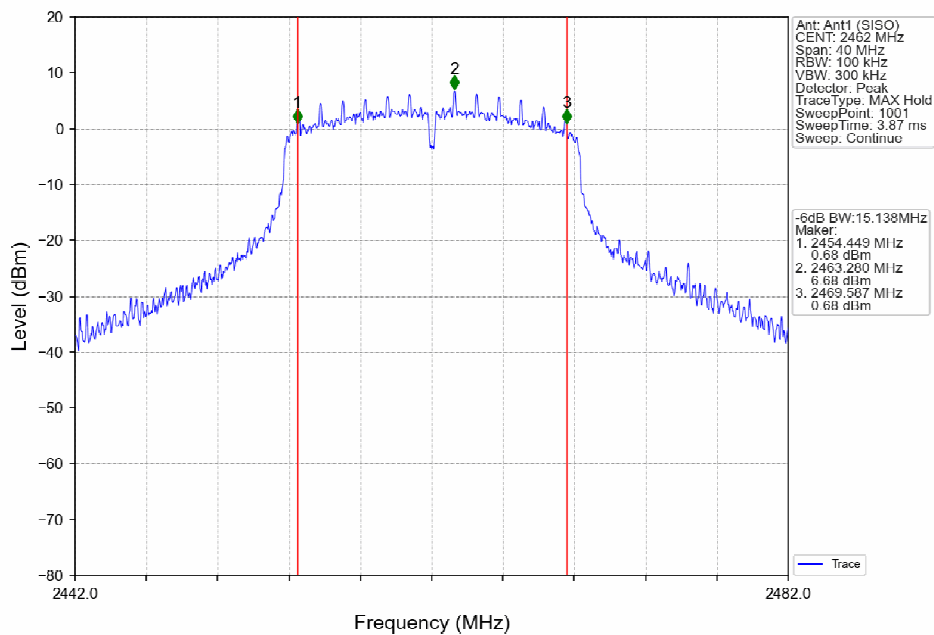
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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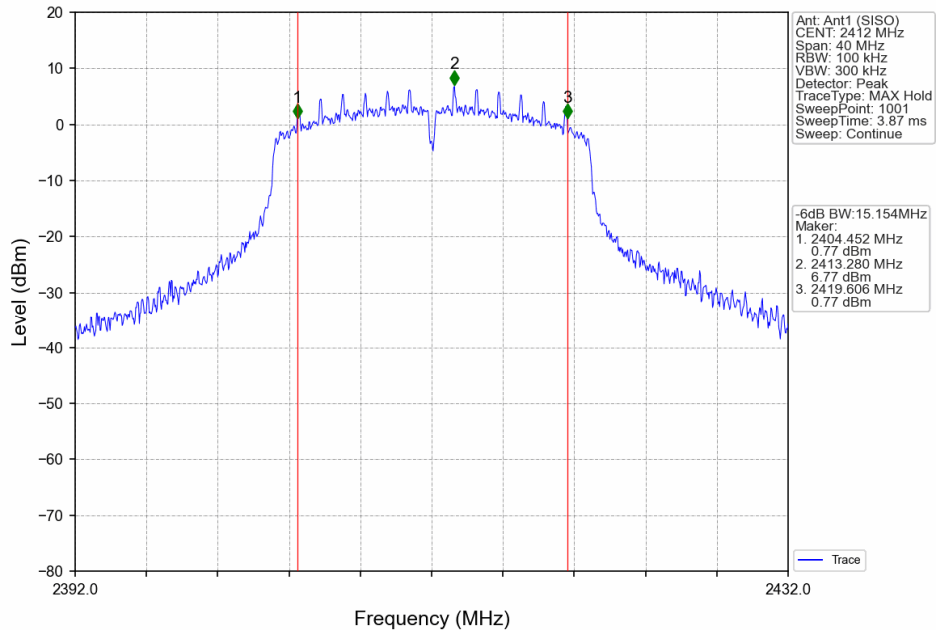
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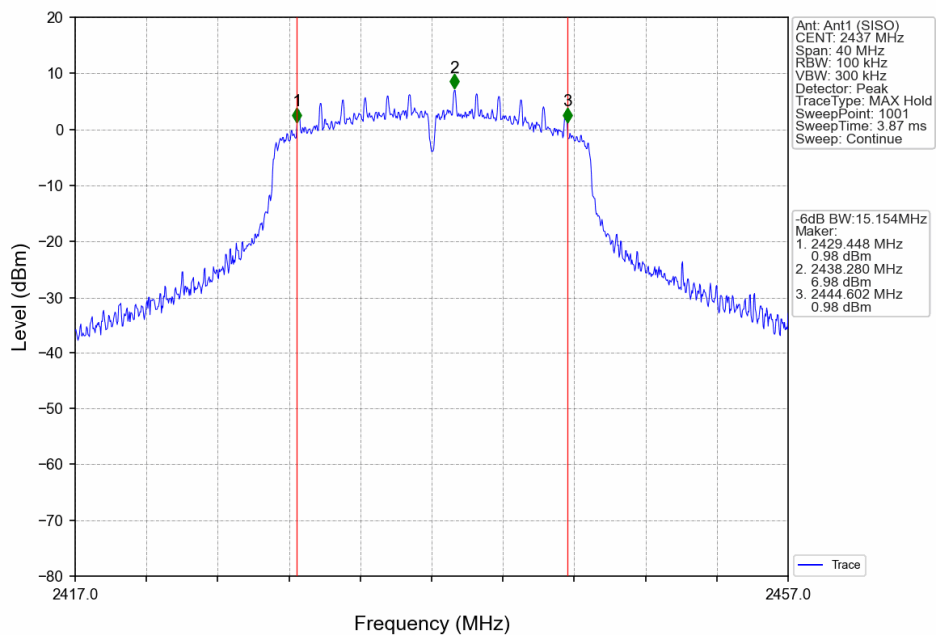
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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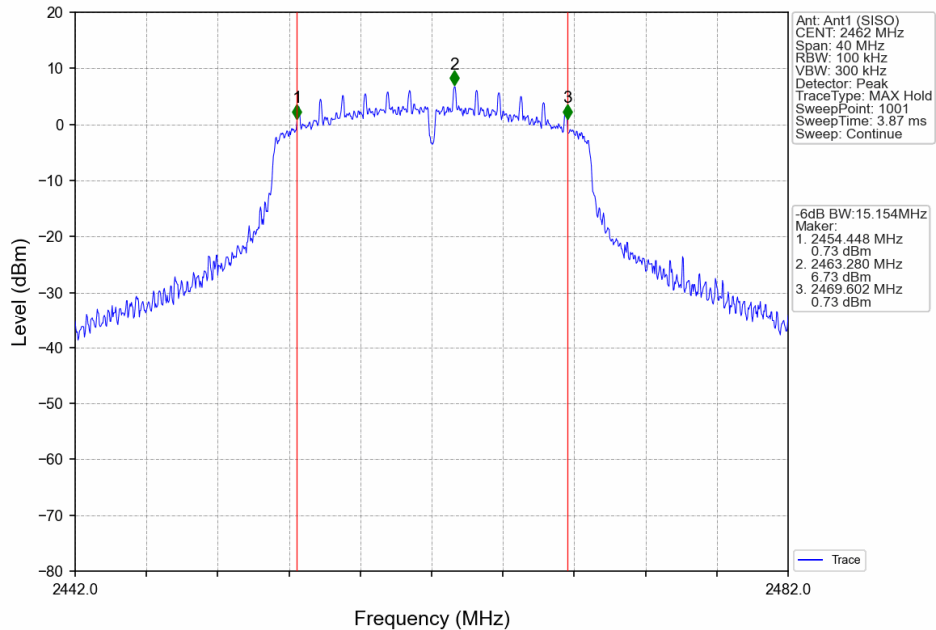
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.80	≤ 30	Pass
		2437	15.53	≤ 30	Pass
		2462	15.07	≤ 30	Pass
802.11g	SISO	2412	15.57	≤ 30	Pass
		2437	16.09	≤ 30	Pass
		2462	16.03	≤ 30	Pass
802.11n (HT20)	SISO	2412	16.54	≤ 30	Pass
		2437	16.44	≤ 30	Pass
		2462	16.15	≤ 30	Pass

Note1: Antenna Gain: Ant1: 3.21dBi;

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-6.07	≤ 8	Pass
		2437	-6.73	≤ 8	Pass
		2462	-6.10	≤ 8	Pass
802.11g	SISO	2412	-8.61	≤ 8	Pass
		2437	-8.33	≤ 8	Pass
		2462	-8.75	≤ 8	Pass
802.11n (HT20)	SISO	2412	-8.74	≤ 8	Pass
		2437	-8.11	≤ 8	Pass
		2462	-8.66	≤ 8	Pass

Note1: Antenna Gain: Ant1: 3.21dBi;



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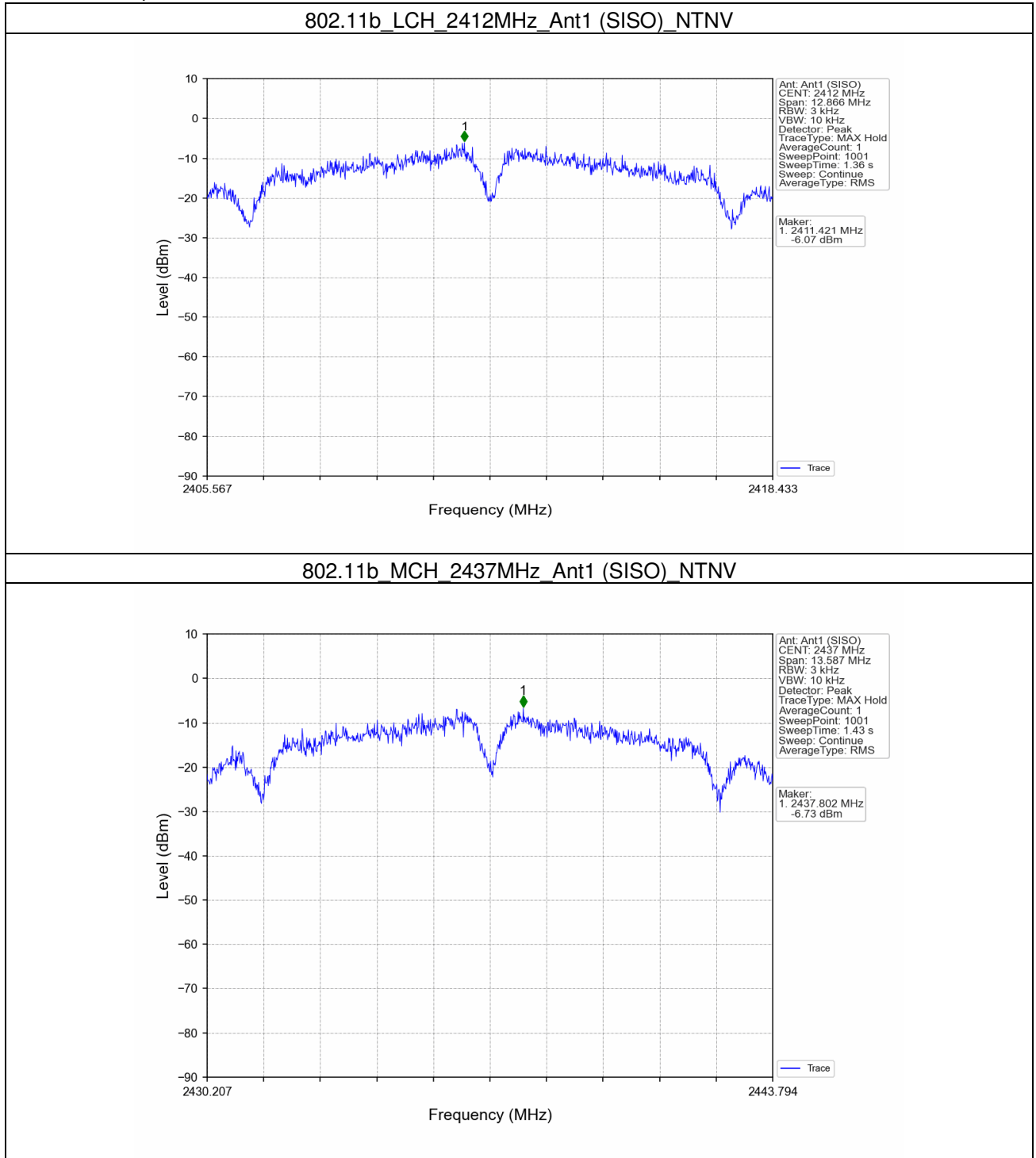
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4.1.2 Test Graph



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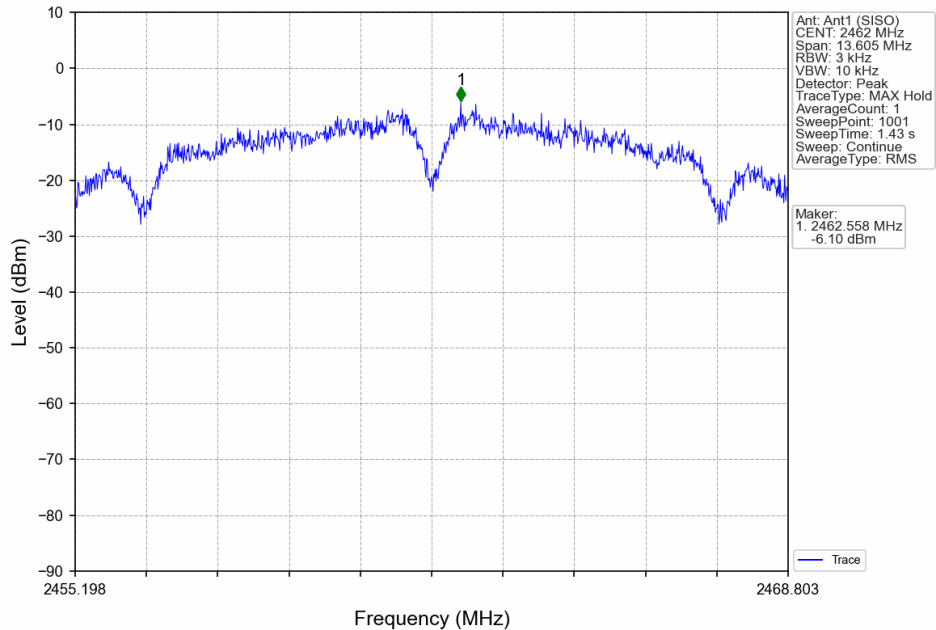
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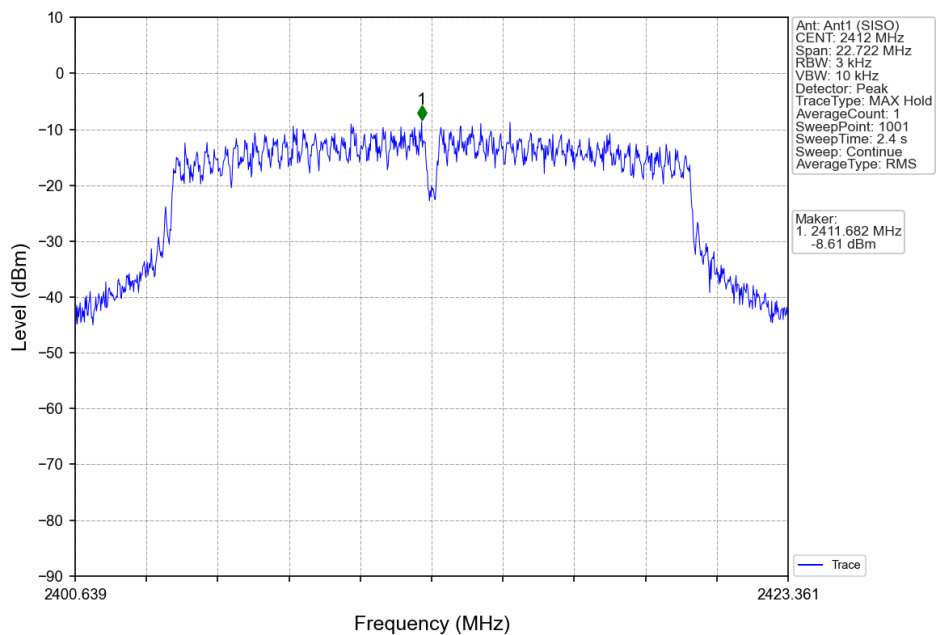
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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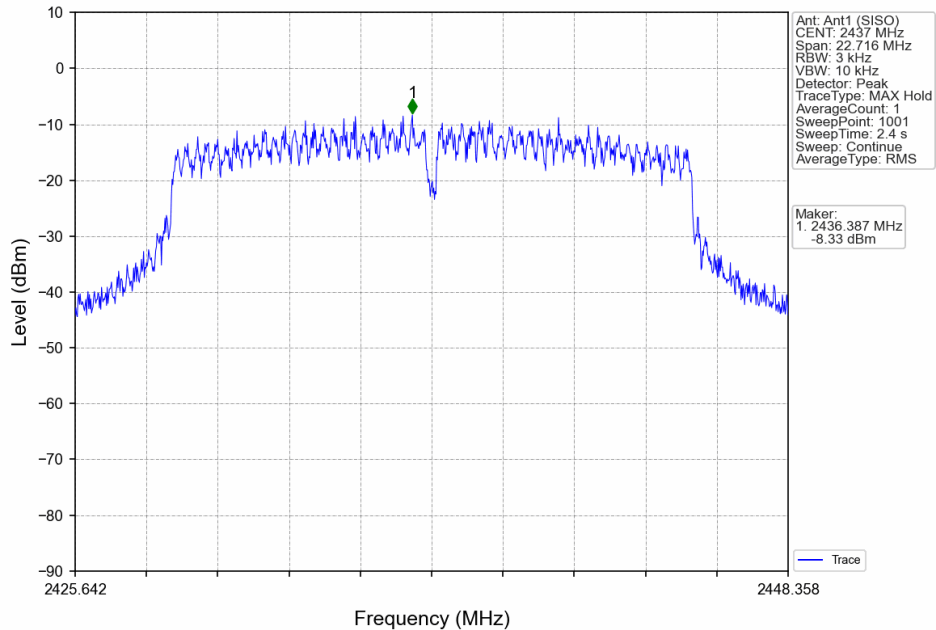
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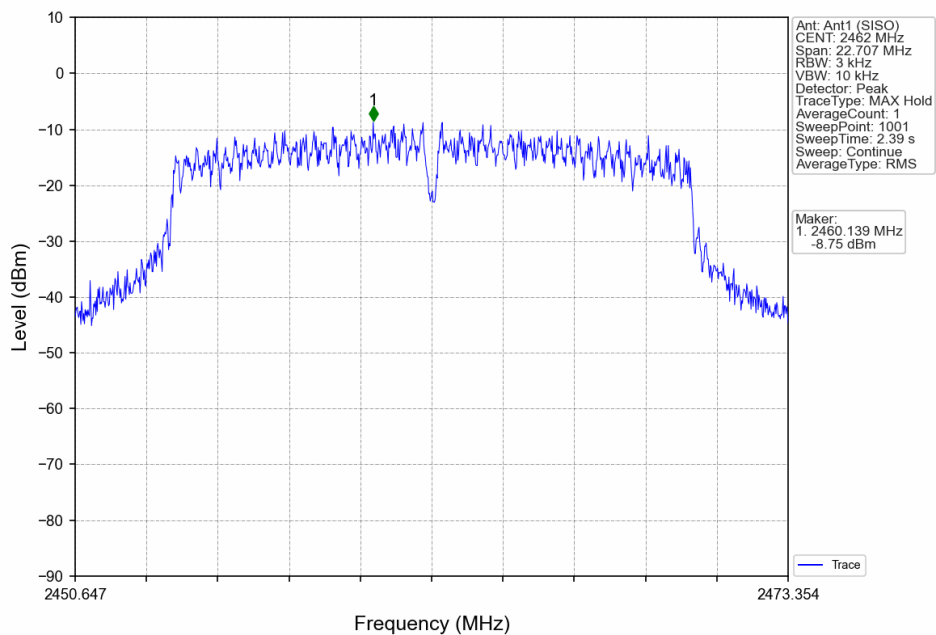
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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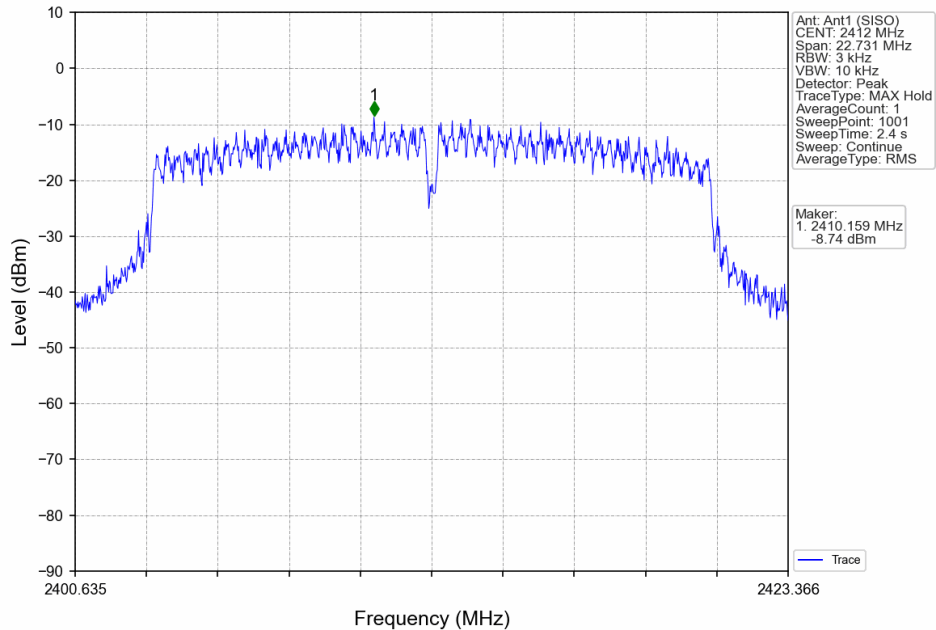
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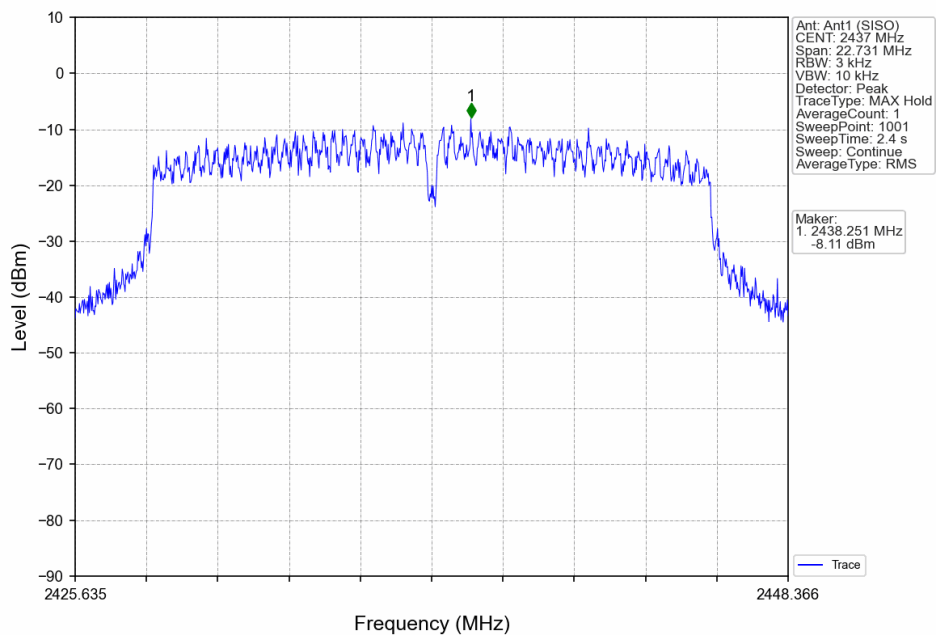
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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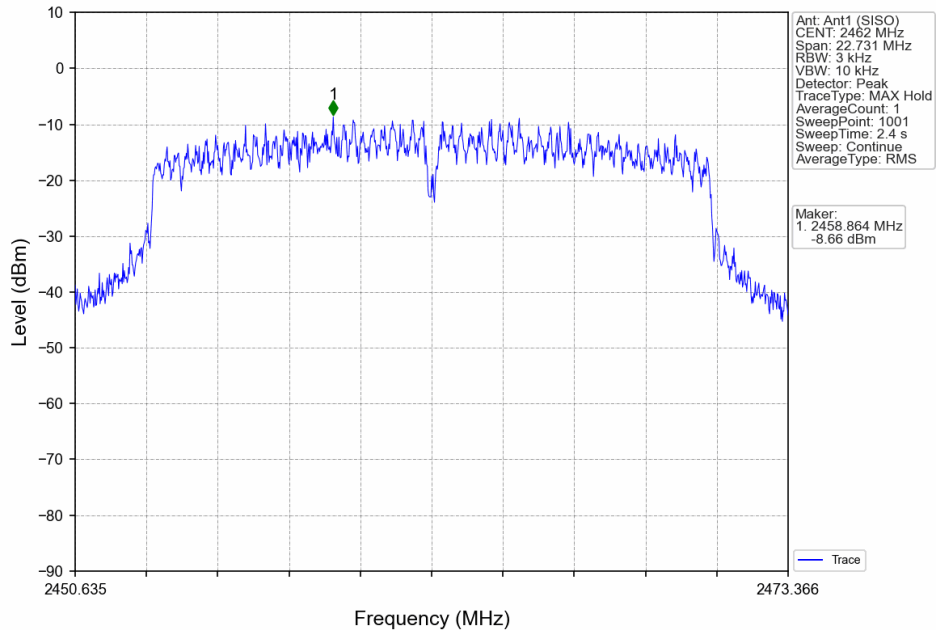
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	8.53
		2437	1	8.16
		2462	1	8.07
802.11g	SISO	2412	1	7.01
		2437	1	6.73
		2462	1	6.77
802.11n (HT20)	SISO	2412	1	6.97
		2437	1	6.94
		2462	1	6.31

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



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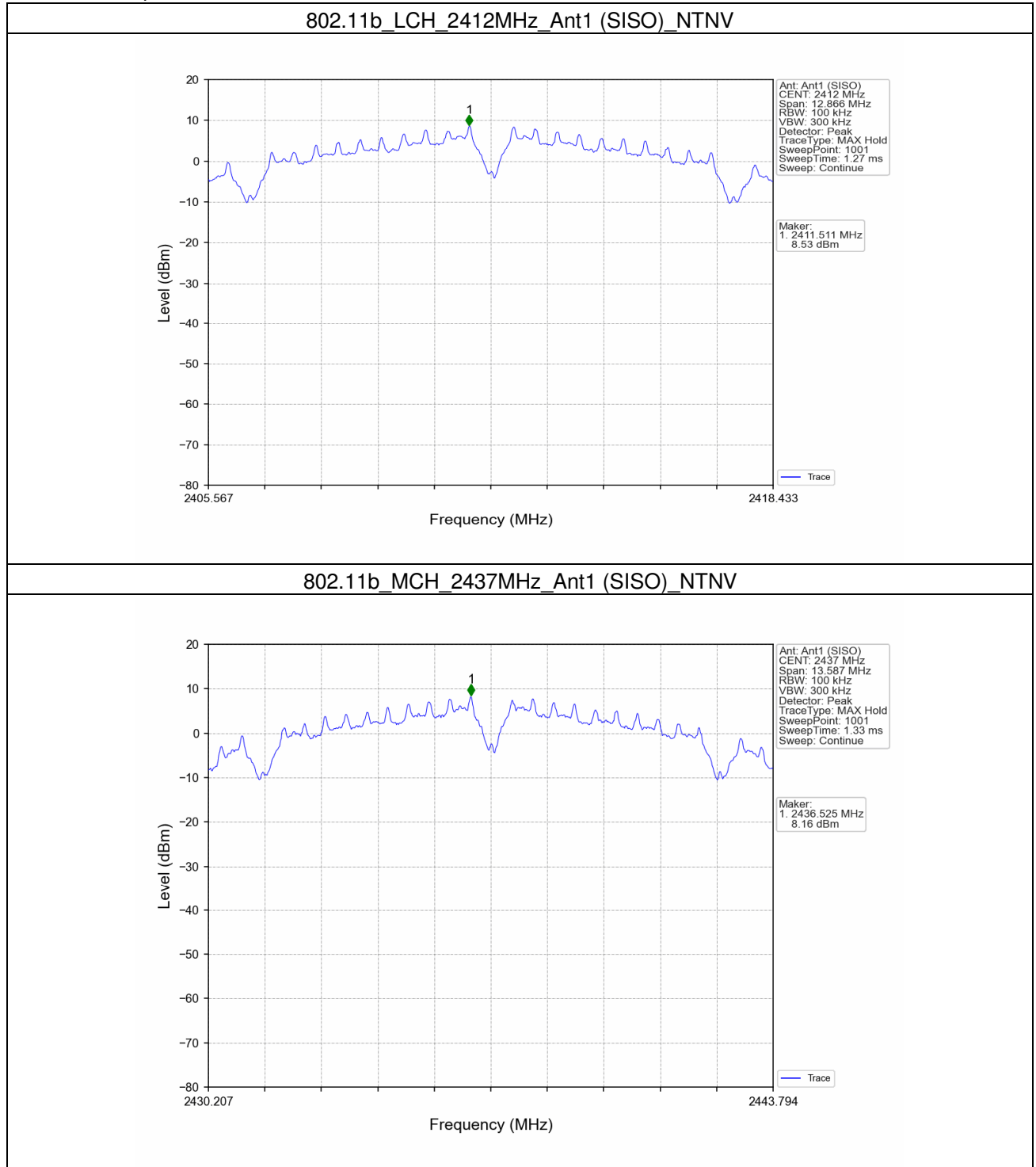
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5.1.2 Test Graph



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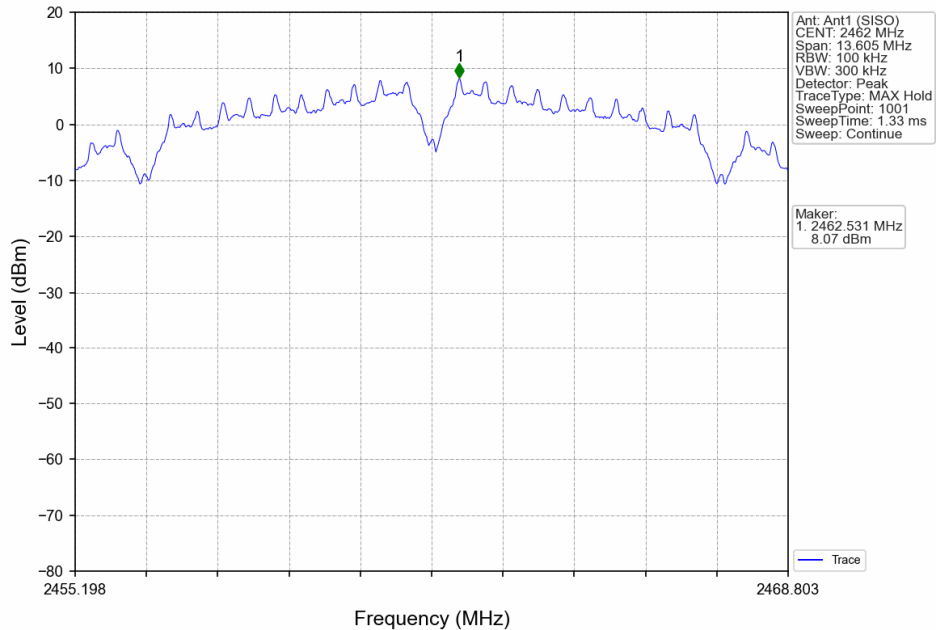
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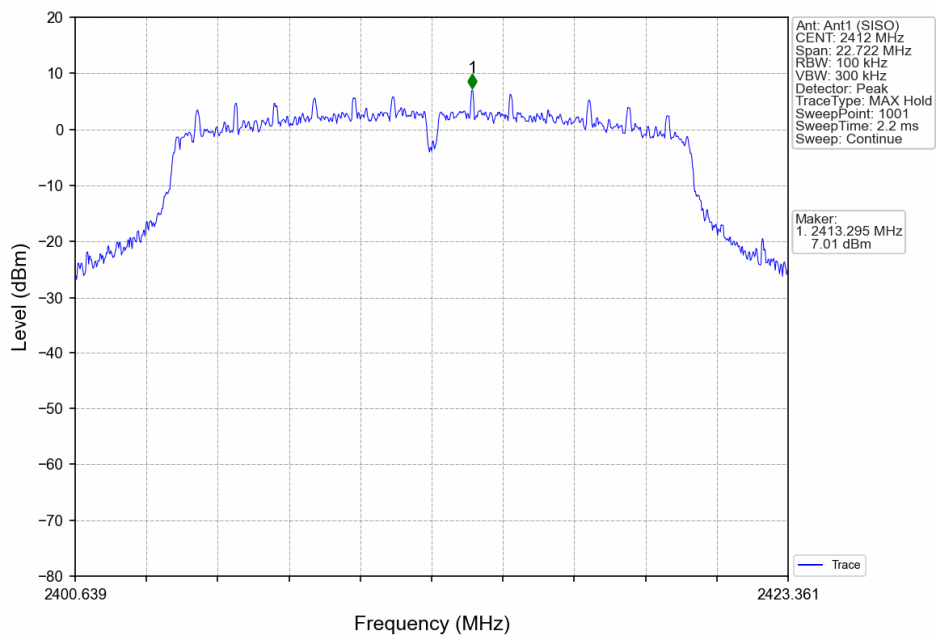
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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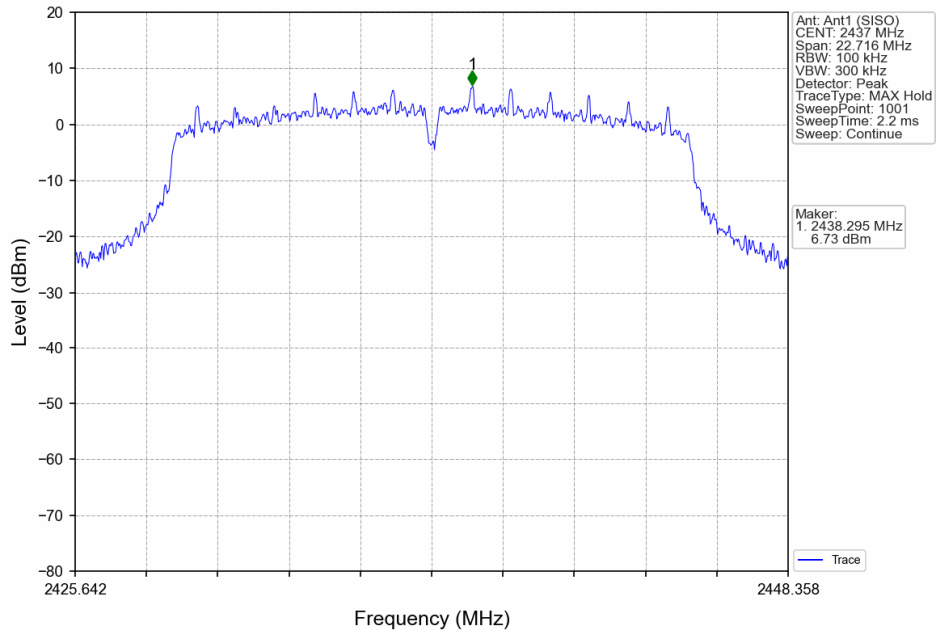
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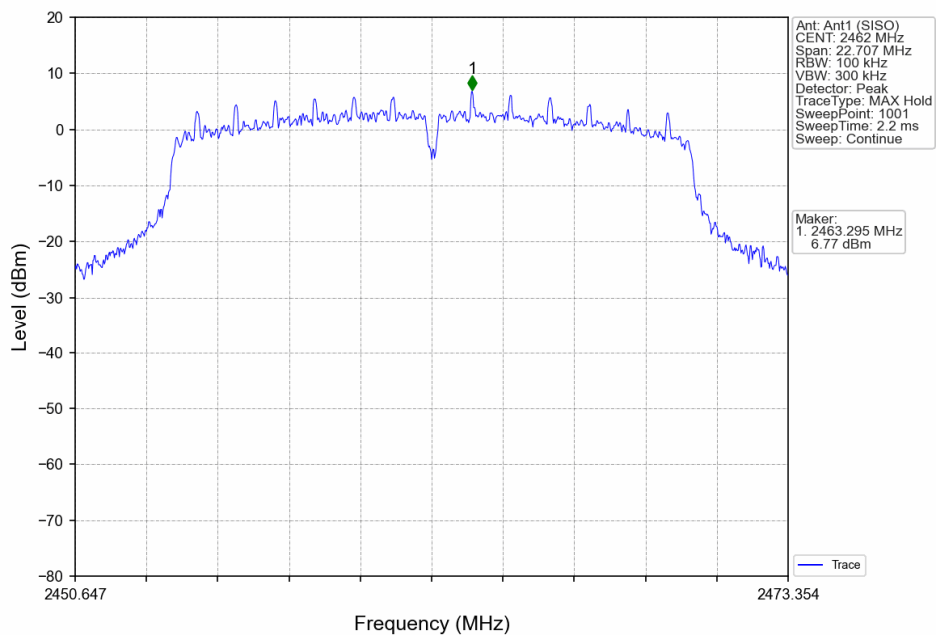
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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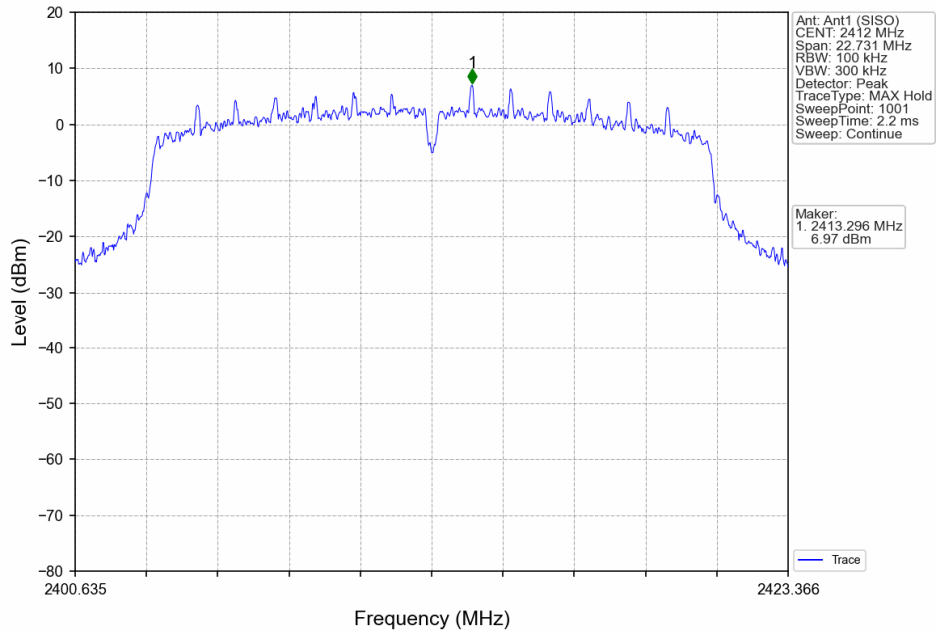
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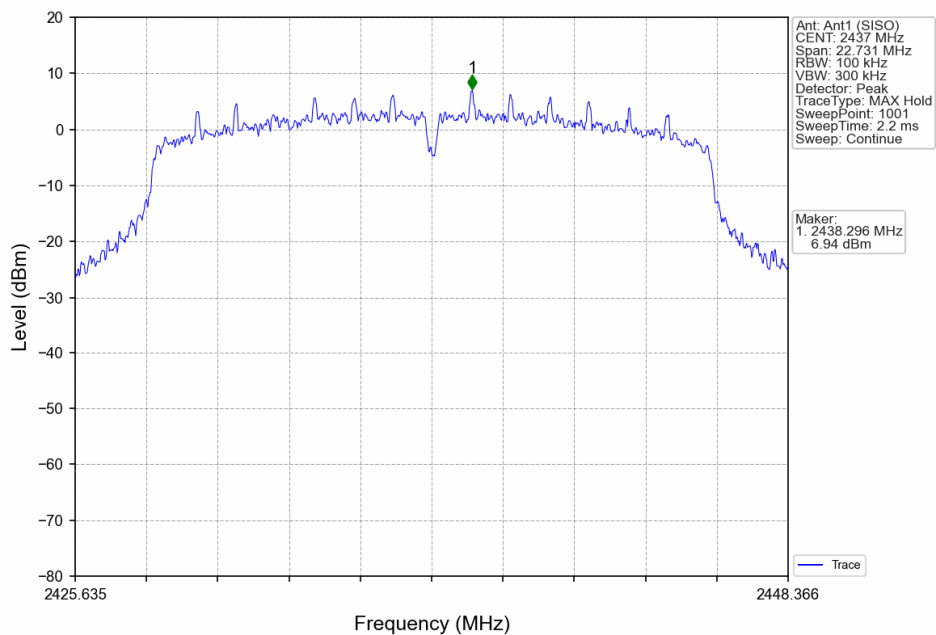
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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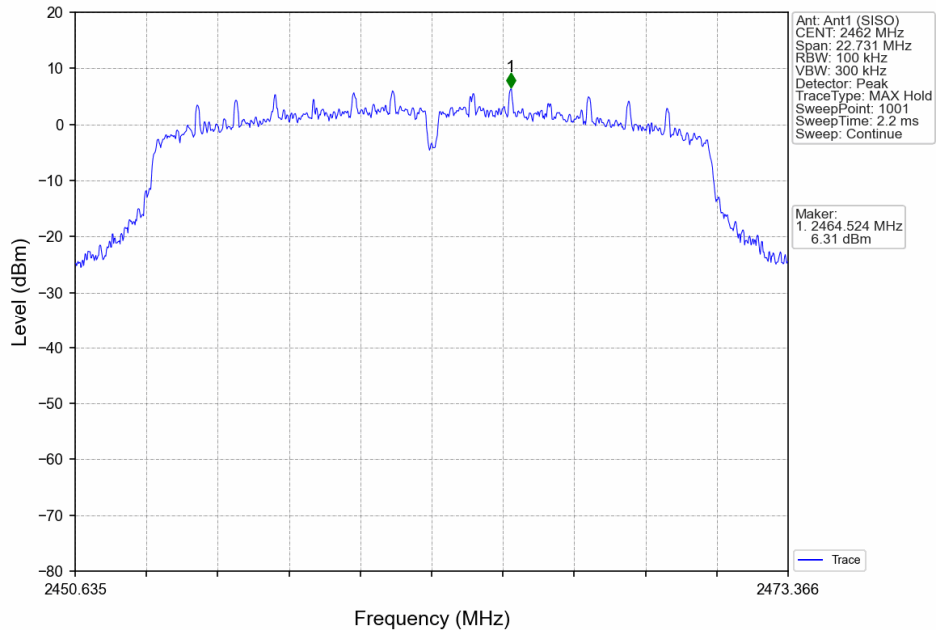
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.53	-21.47	Pass
		2437	1	8.53	-21.47	Pass
		2462	1	8.53	-21.47	Pass
802.11g	SISO	2412	1	7.01	-22.99	Pass
		2437	1	7.01	-22.99	Pass
		2462	1	7.01	-22.99	Pass
802.11n (HT20)	SISO	2412	1	6.97	-23.03	Pass
		2437	1	6.97	-23.03	Pass
		2462	1	6.97	-23.03	Pass

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



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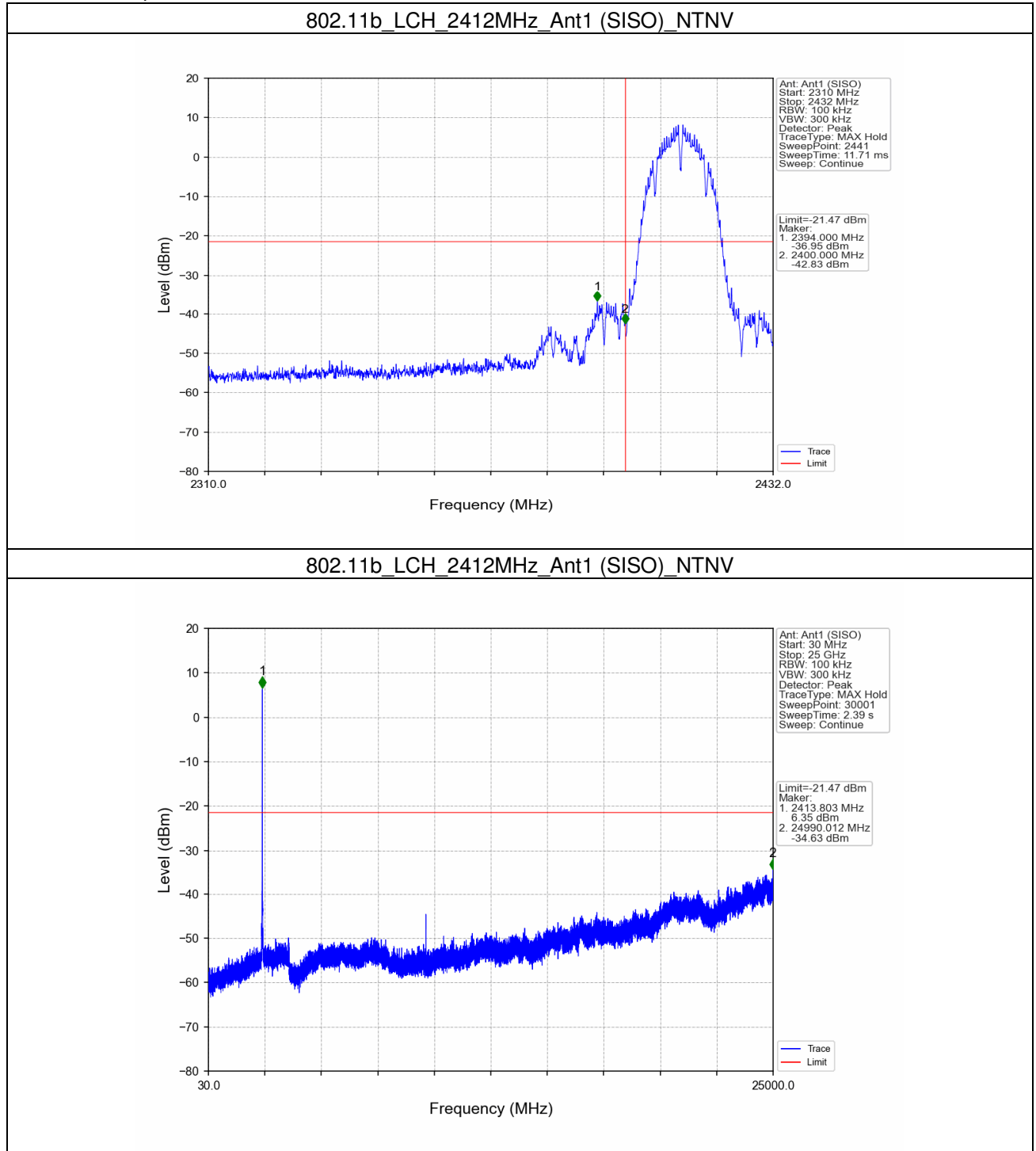
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5.2.2 Test Graph



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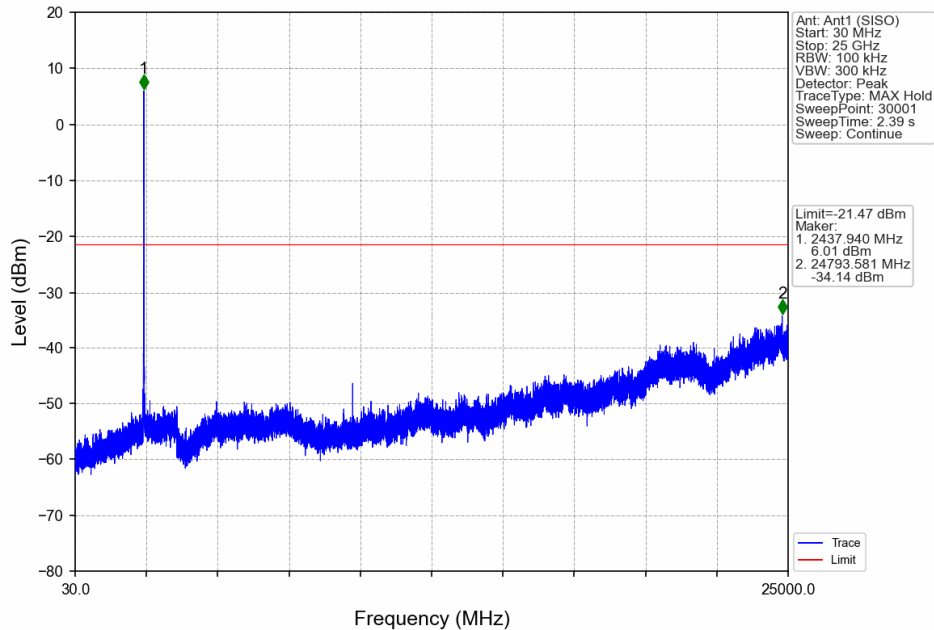
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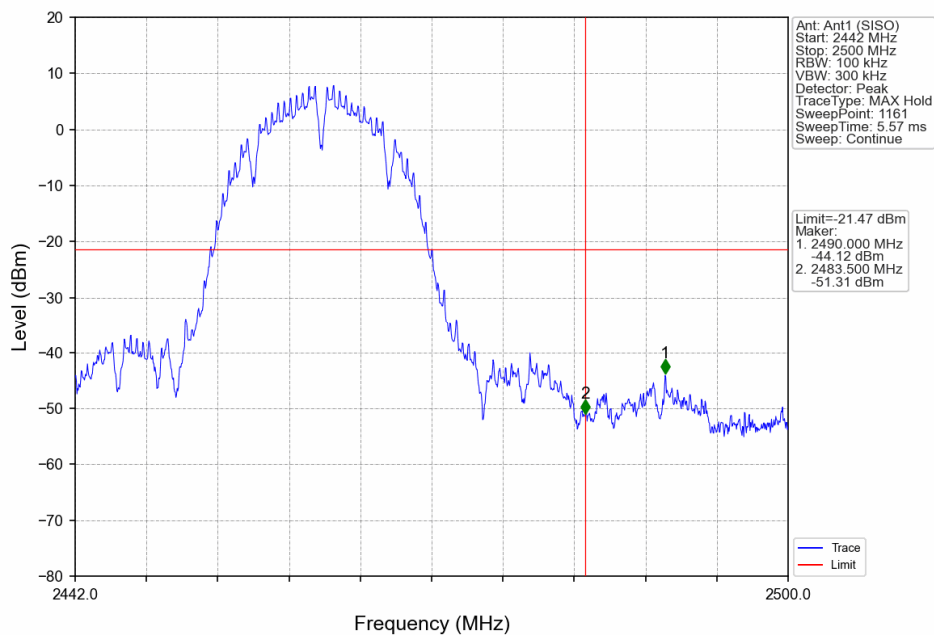
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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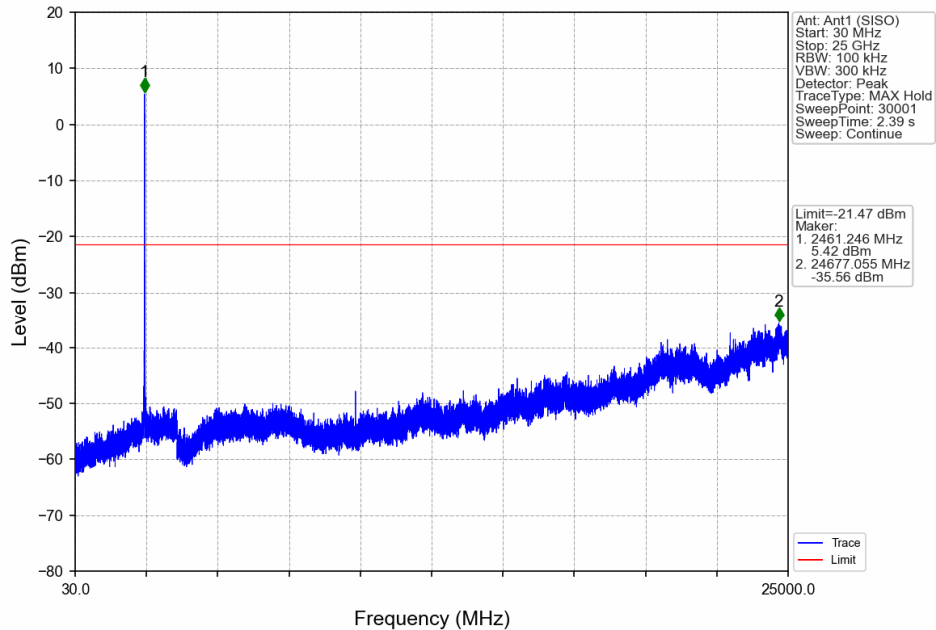
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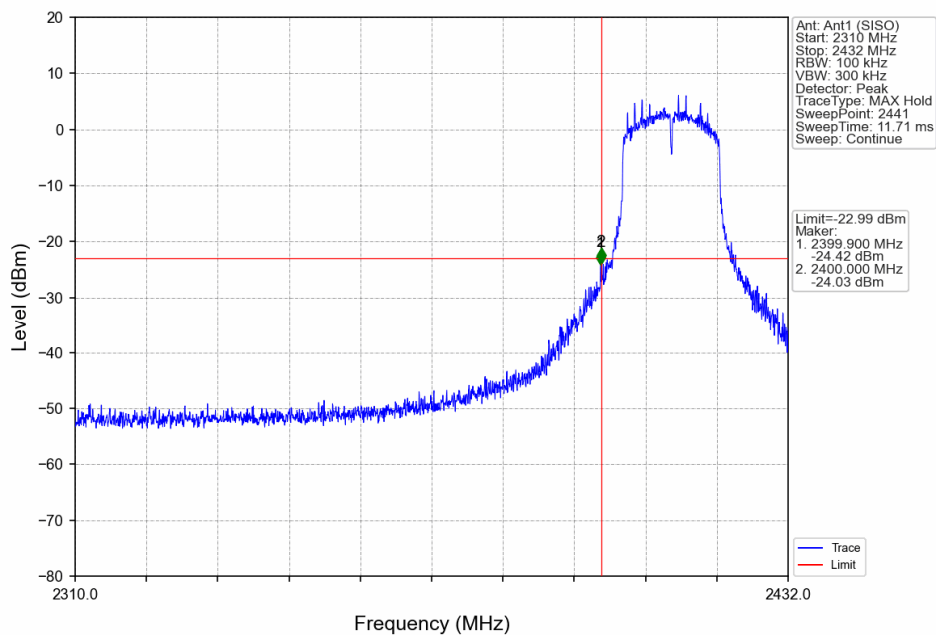
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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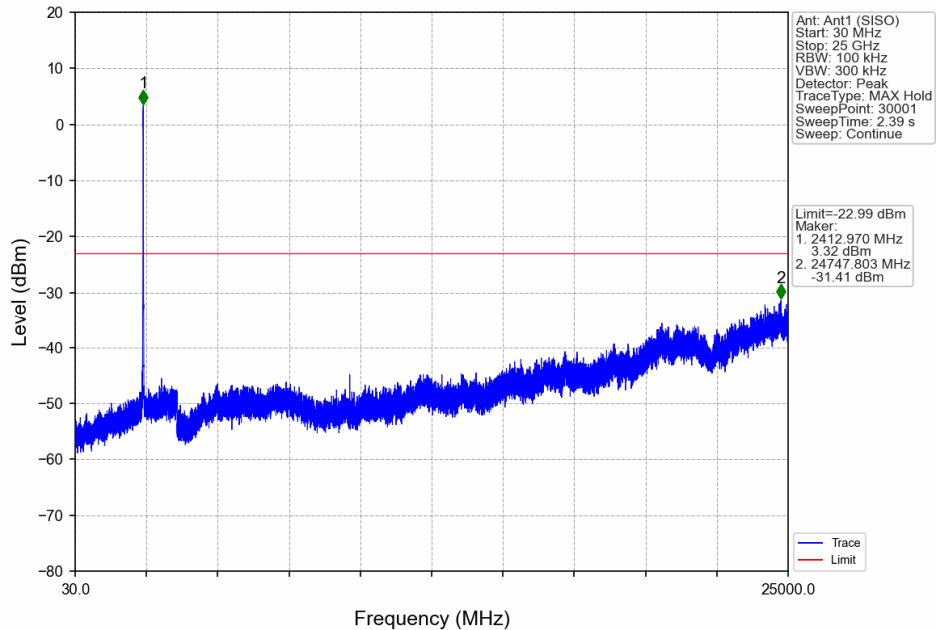
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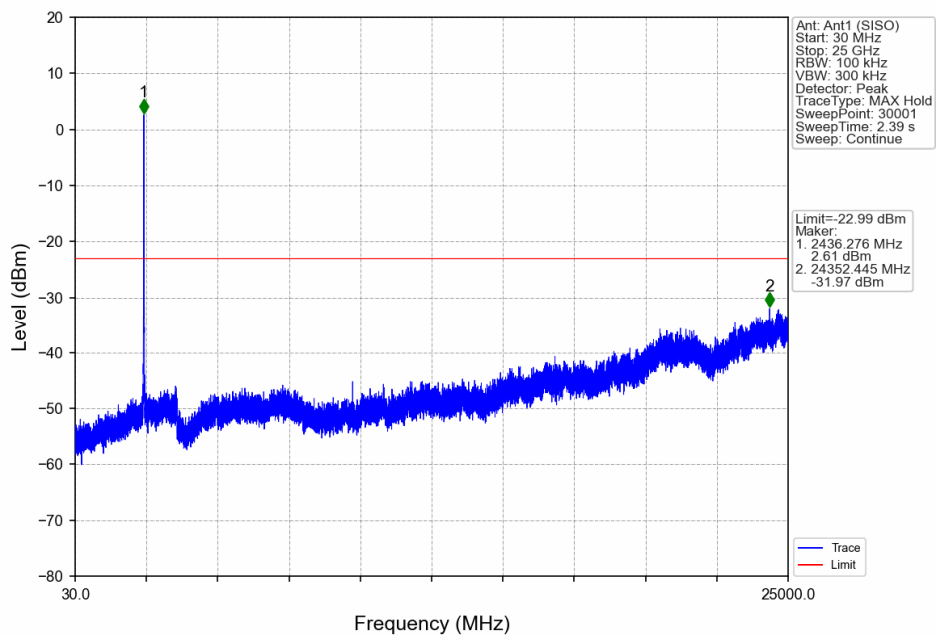
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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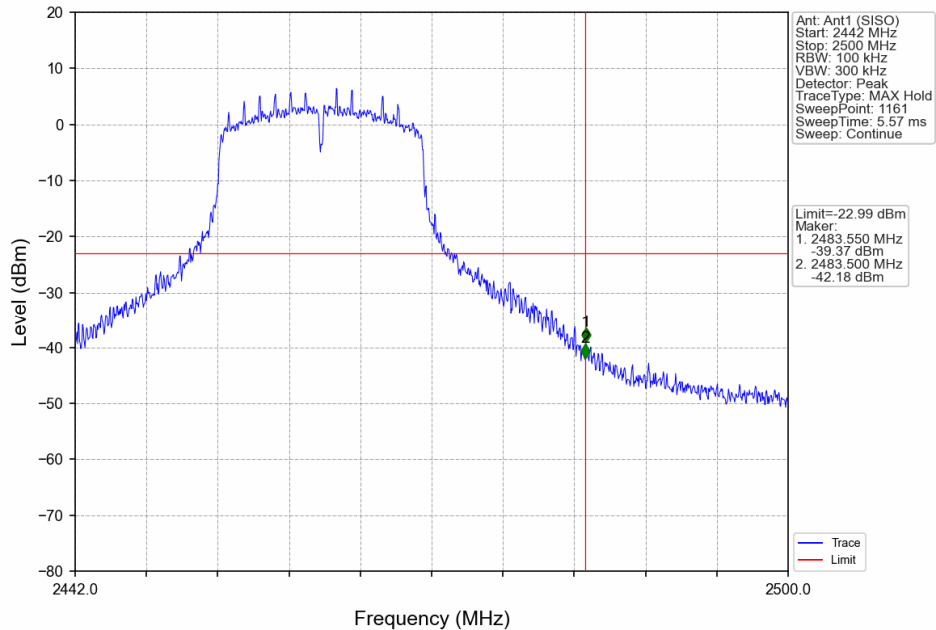
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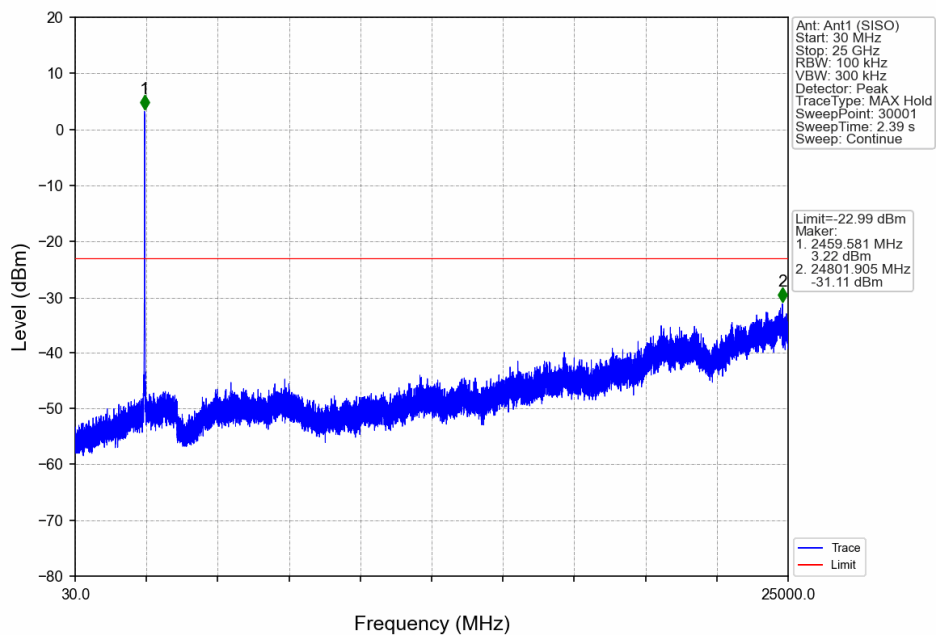
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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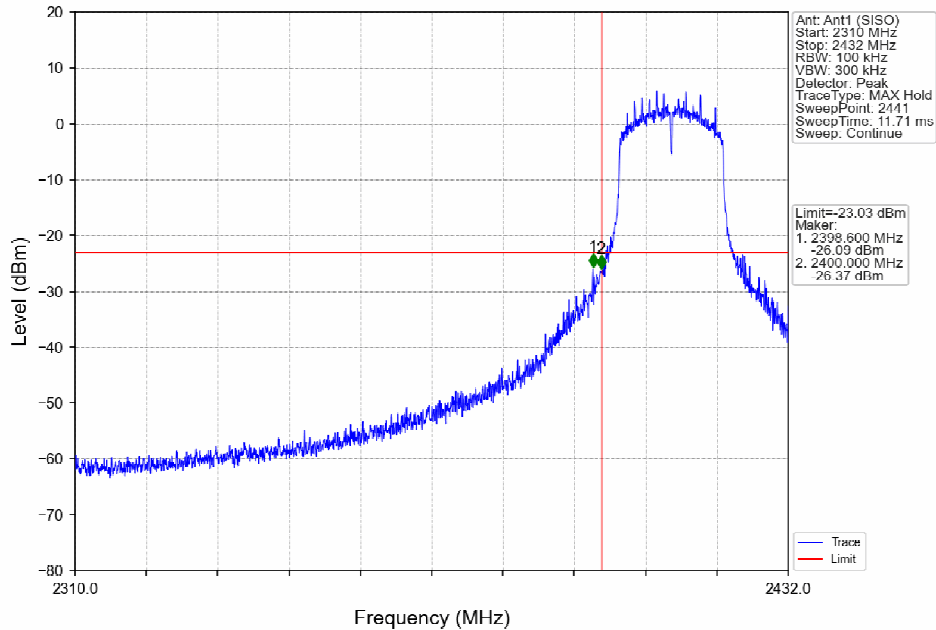
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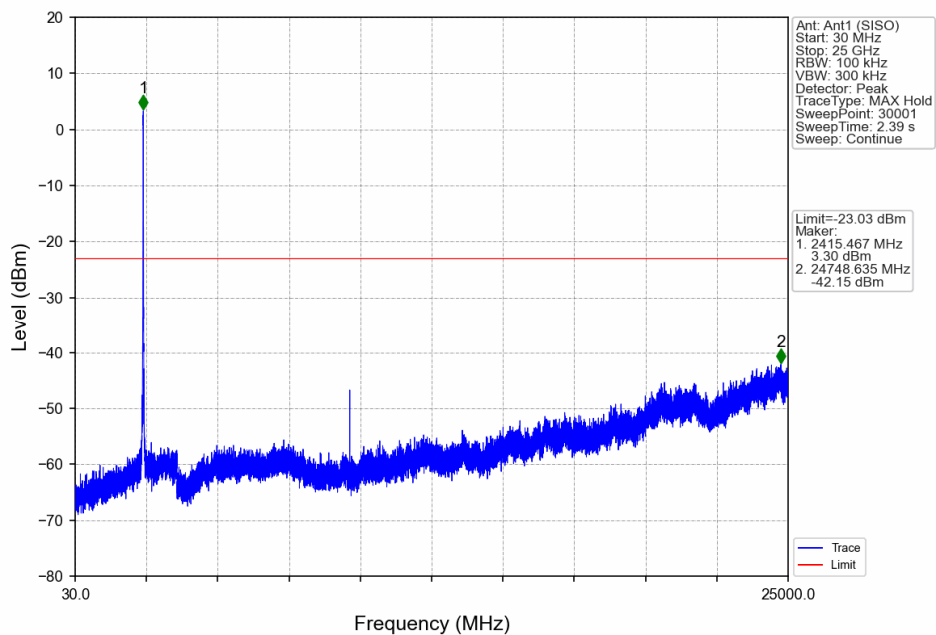
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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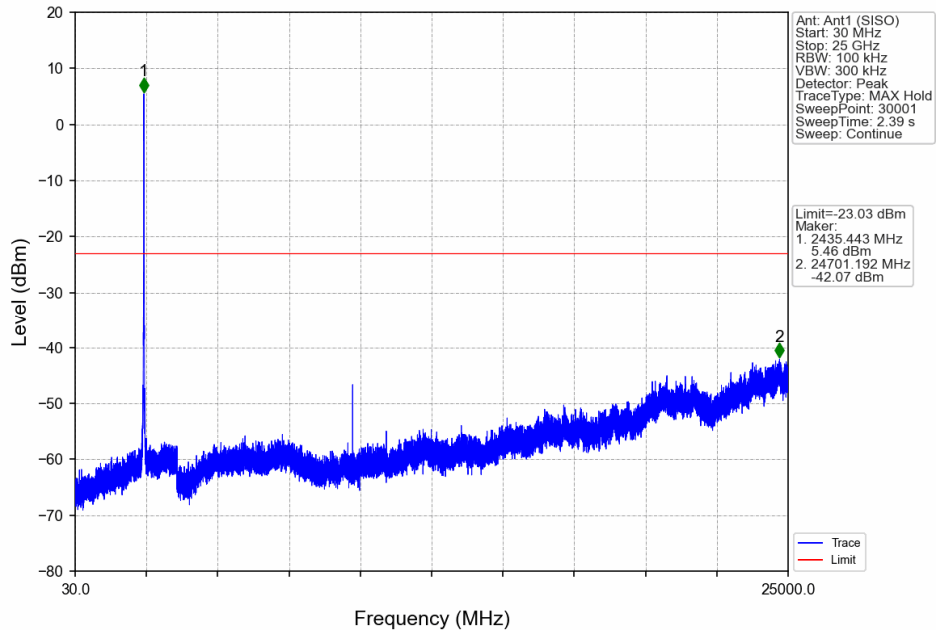
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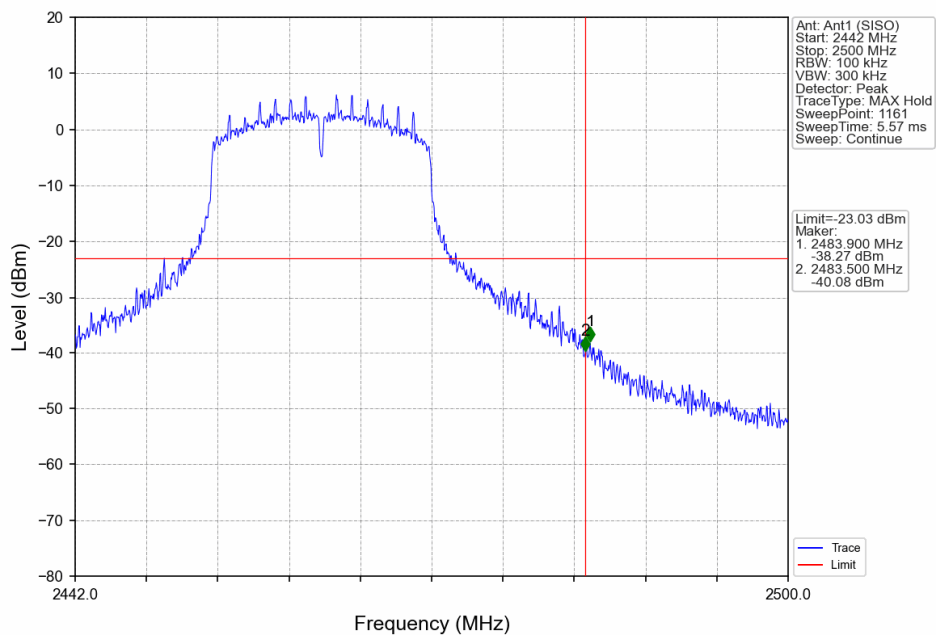
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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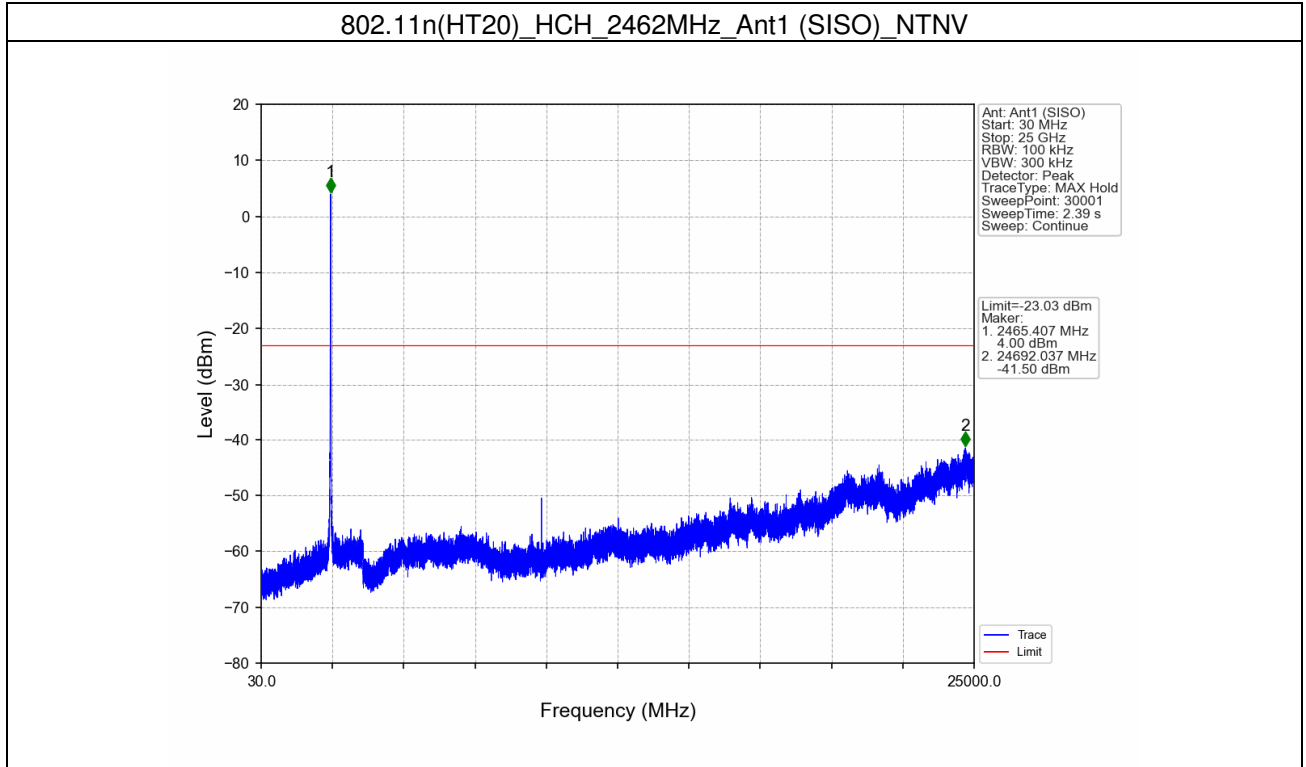
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