

7.9.4 Measurement Procedure and Data

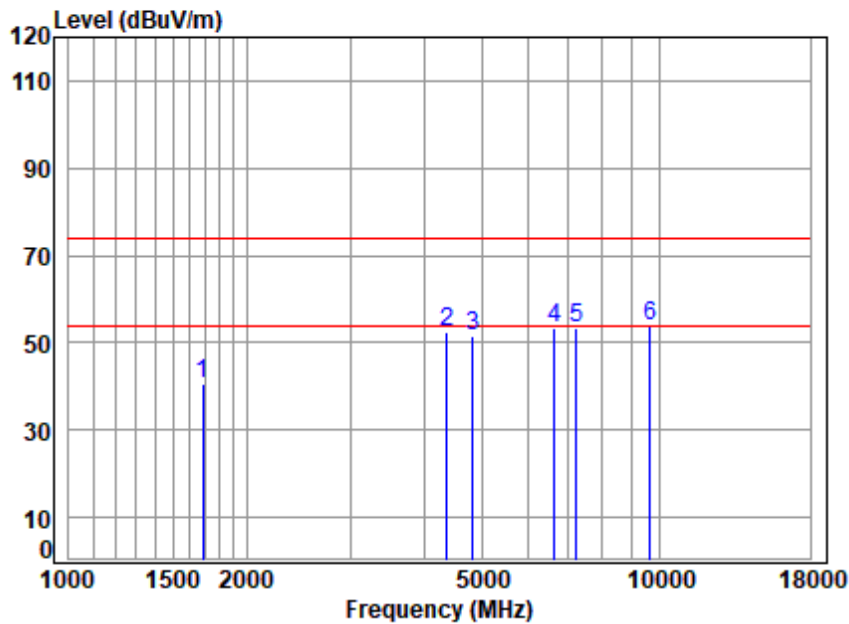
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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.



Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1687.347	3.47	26.77	36.43	46.64	40.45	74.00	-33.55	peak
2	4367.058	6.65	33.57	34.59	46.82	52.45	74.00	-21.55	peak
3	4824.000	7.06	33.90	34.88	45.34	51.42	74.00	-22.58	peak
4	6640.542	8.27	35.60	35.61	45.07	53.33	74.00	-20.67	peak
5	7236.000	8.54	35.80	35.95	45.10	53.49	74.00	-20.51	peak
6 q	9648.000	10.41	37.10	35.55	41.99	53.95	74.00	-20.05	peak

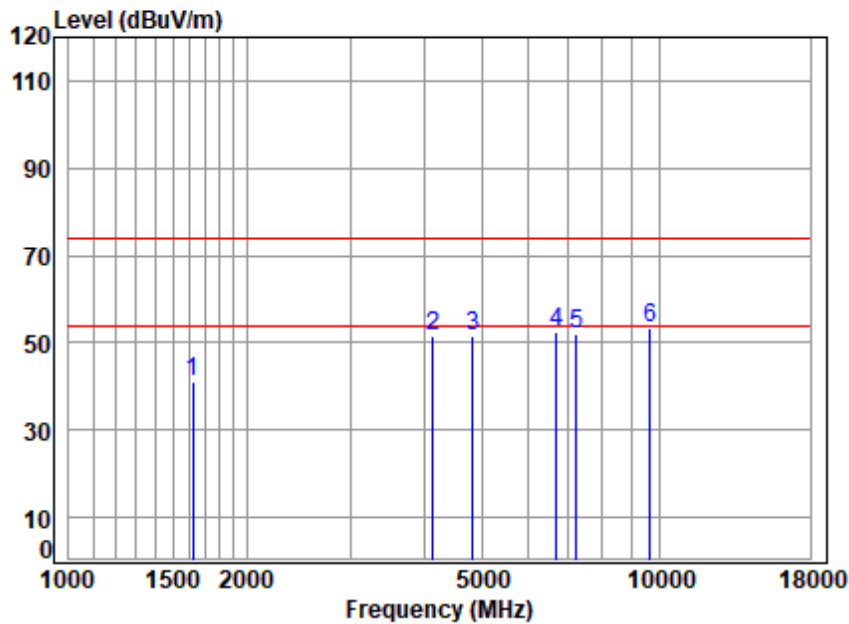


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1620.431	3.39	26.58	36.58	47.57	40.96	74.00	-33.04	peak
2	4133.699	6.42	33.07	34.43	46.36	51.42	74.00	-22.58	peak
3	4824.000	7.06	33.90	34.88	45.41	51.49	74.00	-22.51	peak
4	6698.373	8.27	35.60	35.66	44.13	52.34	74.00	-21.66	peak
5	7236.000	8.54	35.80	35.95	43.73	52.12	74.00	-21.88	peak
6 q	9648.000	10.41	37.10	35.55	41.43	53.39	74.00	-20.61	peak

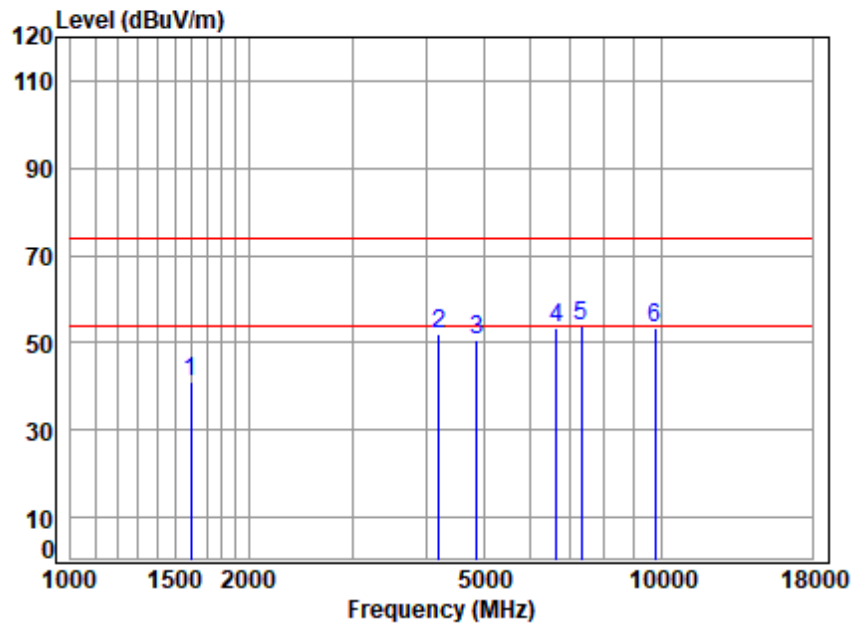


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1597.181	3.37	26.47	36.64	47.70	40.90	74.00	-33.10	peak
2	4206.011	6.49	33.42	34.48	46.49	51.92	74.00	-22.08	peak
3	4874.000	7.10	34.05	34.91	44.52	50.76	74.00	-23.24	peak
4	6640.542	8.27	35.60	35.61	44.98	53.24	74.00	-20.76	peak
5 q	7311.000	8.61	35.90	35.97	45.09	53.63	74.00	-20.37	peak
6	9748.000	10.45	37.20	35.56	41.50	53.59	74.00	-20.41	peak

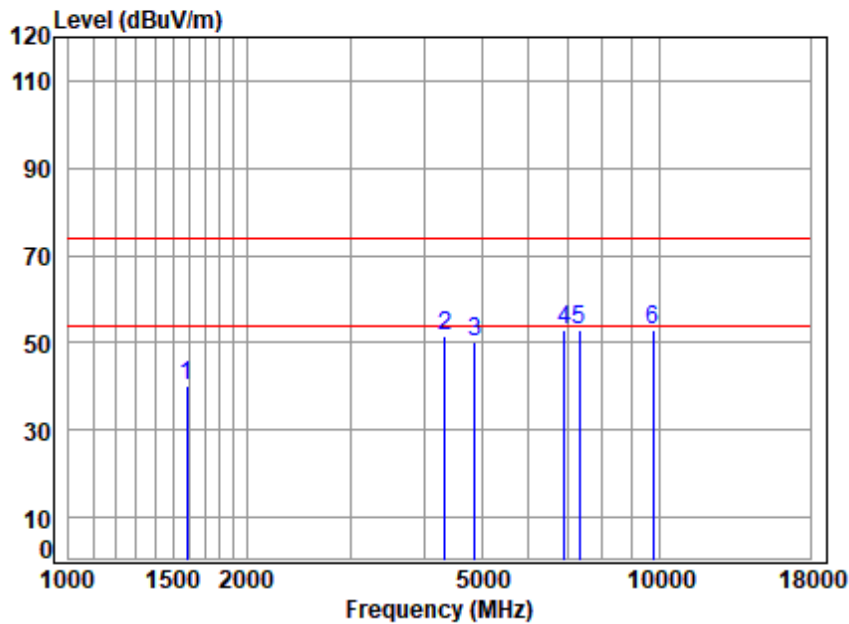


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1587.975	3.35	26.36	36.66	46.95	40.00	74.00	-34.00	peak
2	4329.354	6.61	33.60	34.56	45.80	51.45	74.00	-22.55	peak
3	4874.000	7.10	34.05	34.91	43.89	50.13	74.00	-23.87	peak
4	6914.763	8.31	35.63	35.84	44.67	52.77	74.00	-21.23	peak
5	7311.000	8.61	35.90	35.97	44.38	52.92	74.00	-21.08	peak
6 q	9748.000	10.45	37.20	35.56	40.86	52.95	74.00	-21.05	peak

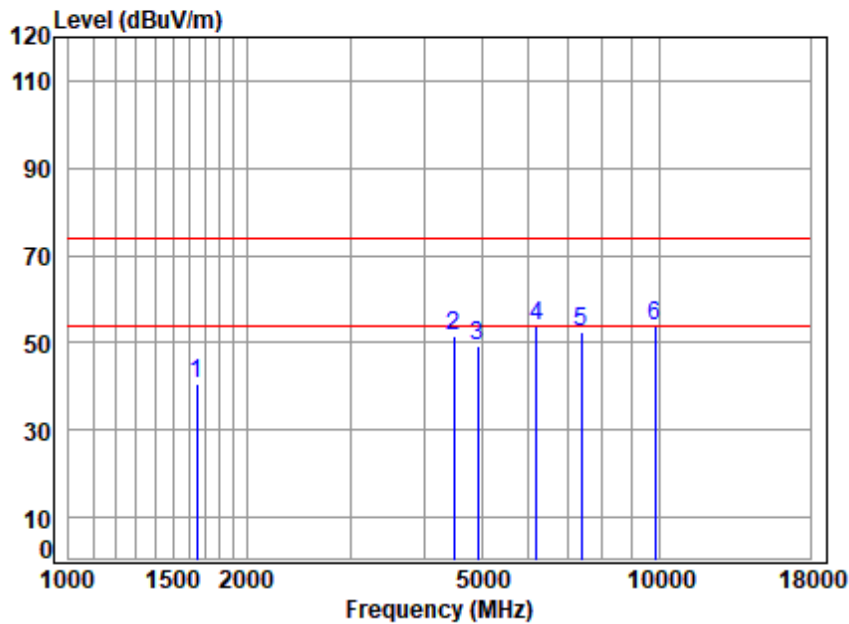


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1648.778	3.43	26.70	36.52	47.21	40.82	74.00	-33.18	peak
2	4482.150	6.75	33.50	34.66	46.18	51.77	74.00	-22.23	peak
3	4924.000	7.15	34.15	34.94	43.12	49.48	74.00	-24.52	peak
4	6195.508	8.19	35.20	35.22	45.51	53.68	74.00	-20.32	peak
5	7386.000	8.68	35.90	35.98	43.84	52.44	74.00	-21.56	peak
6 q	9848.000	10.49	37.30	35.57	41.71	53.93	74.00	-20.07	peak

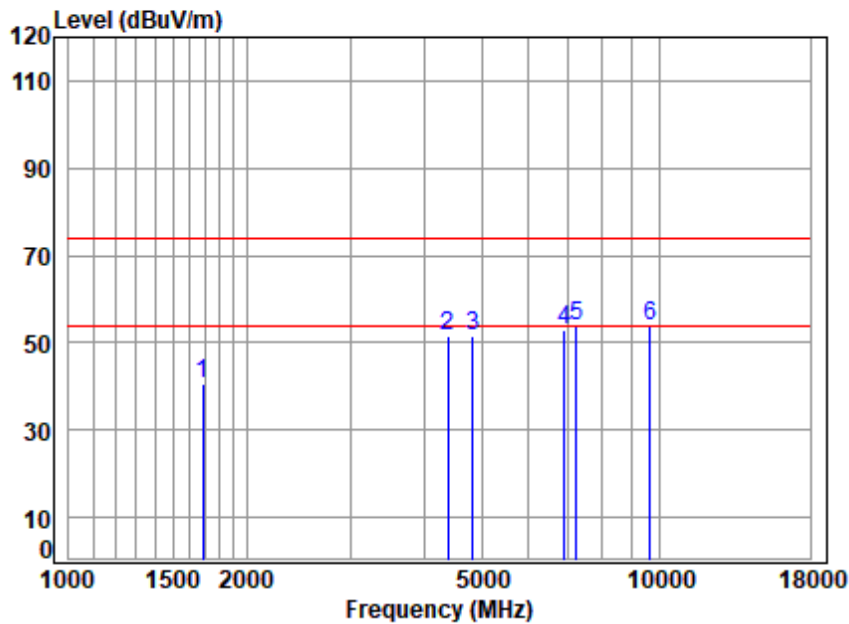


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1687.347	3.47	26.77	36.43	46.81	40.62	74.00	-33.38	peak
2	4392.376	6.67	33.52	34.60	45.96	51.55	74.00	-22.45	peak
3	4824.000	7.06	33.90	34.88	45.59	51.67	74.00	-22.33	peak
4	6914.763	8.31	35.63	35.84	44.82	52.92	74.00	-21.08	peak
5	7236.000	8.54	35.80	35.95	45.30	53.69	74.00	-20.31	peak
6 q	9648.000	10.41	37.10	35.55	41.85	53.81	74.00	-20.19	peak

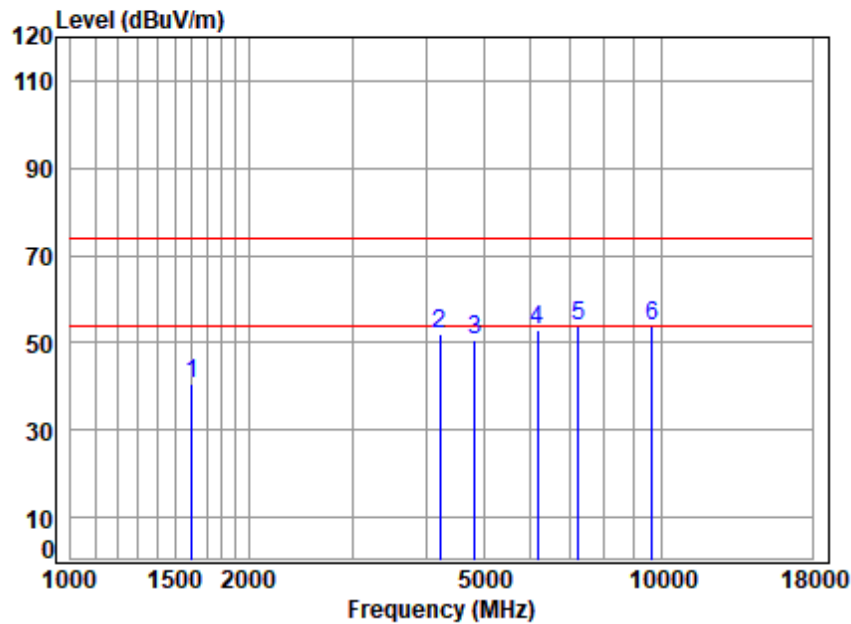


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1601.804	3.37	26.51	36.63	47.36	40.61	74.00	-33.39	peak
2	4218.186	6.50	33.47	34.48	46.49	51.98	74.00	-22.02	peak
3	4824.000	7.06	33.90	34.88	44.43	50.51	74.00	-23.49	peak
4	6177.627	8.19	35.20	35.20	44.92	53.11	74.00	-20.89	peak
5	7236.000	8.54	35.80	35.95	45.49	53.88	74.00	-20.12	peak
6	9648.000	10.41	37.10	35.55	41.70	53.66	74.00	-20.34	peak

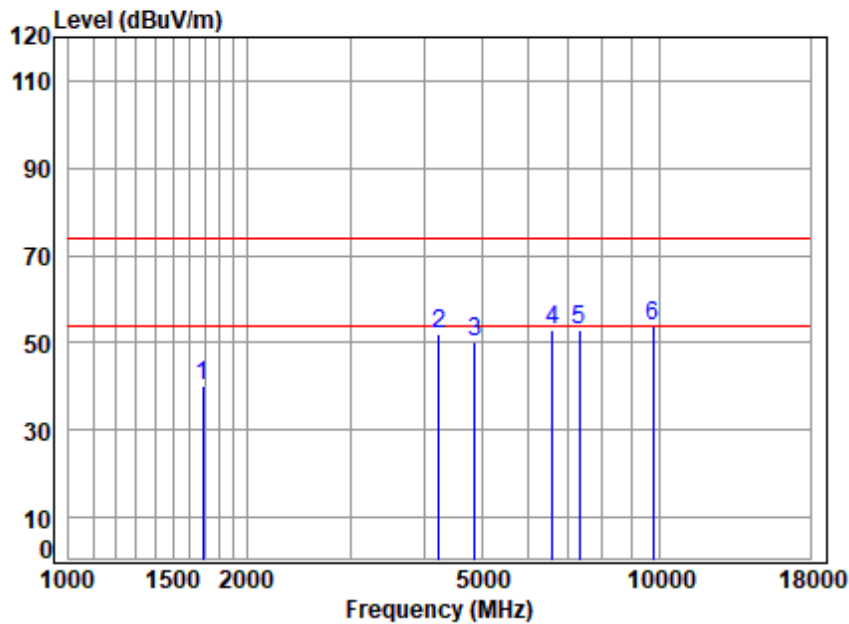


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1687.347	3.47	26.77	36.43	46.19	40.00	74.00	-34.00	peak
2	4230.396	6.51	33.52	34.49	46.49	52.03	74.00	-21.97	peak
3	4874.000	7.10	34.05	34.91	43.73	49.97	74.00	-24.03	peak
4	6602.265	8.26	35.60	35.58	44.44	52.72	74.00	-21.28	peak
5	7311.000	8.61	35.90	35.97	44.51	53.05	74.00	-20.95	peak
6 q	9748.000	10.45	37.20	35.56	41.69	53.78	74.00	-20.22	peak

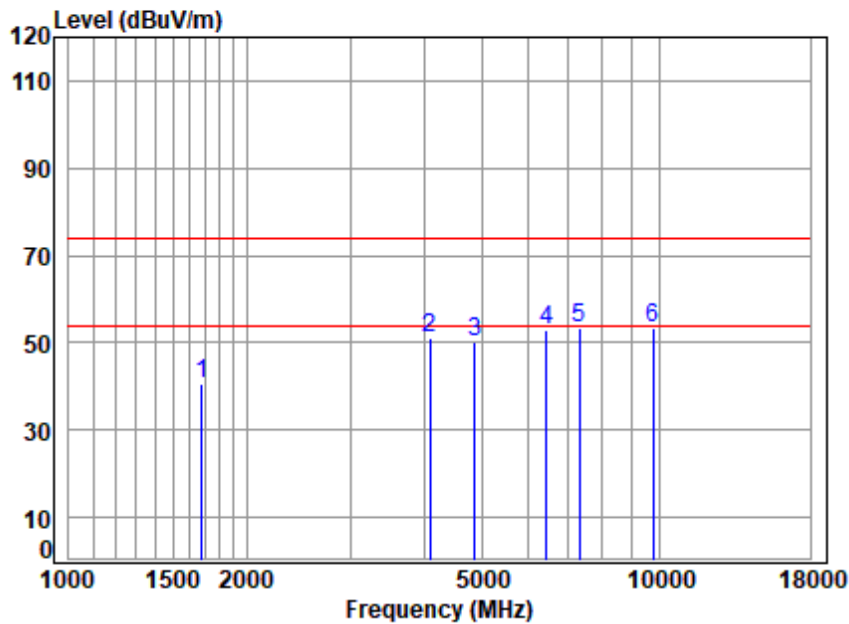


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1677.621	3.46	26.76	36.45	46.89	40.66	74.00	-33.34	peak
2	4086.182	6.37	32.97	34.39	46.08	51.03	74.00	-22.97	peak
3	4874.000	7.10	34.05	34.91	44.08	50.32	74.00	-23.68	peak
4	6451.353	8.24	35.40	35.45	44.53	52.72	74.00	-21.28	peak
5 q	7311.000	8.61	35.90	35.97	44.66	53.20	74.00	-20.80	peak
6	9748.000	10.45	37.20	35.56	41.09	53.18	74.00	-20.82	peak

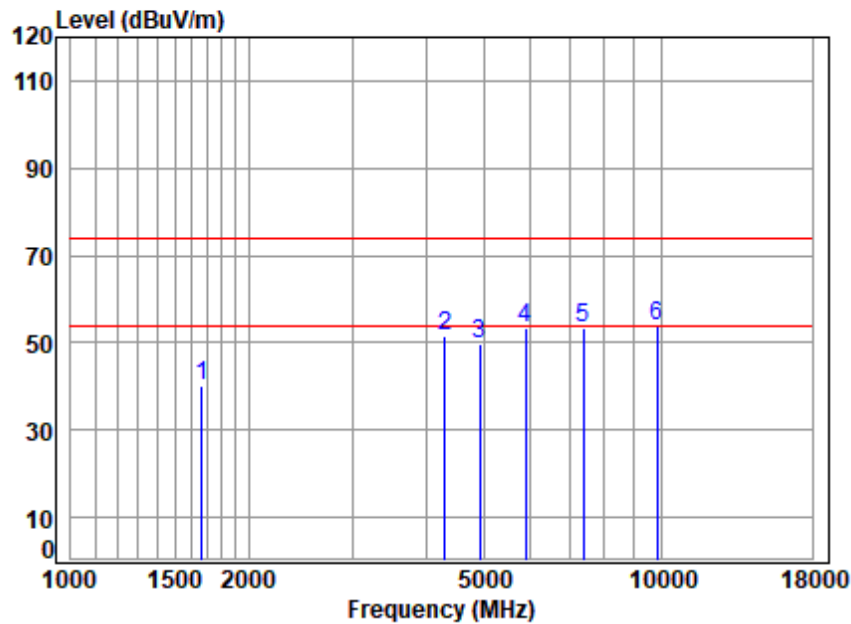


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00736AT/00737AT
 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	1667.951	3.45	26.74	36.47	46.57	40.29	74.00	-33.71	peak
2	4304.400	6.59	33.60	34.54	45.72	51.37	74.00	-22.63	peak
3	4924.000	7.15	34.15	34.94	43.40	49.76	74.00	-24.24	peak
4	5898.442	8.07	34.80	35.03	45.50	53.34	74.00	-20.66	peak
5	7386.000	8.68	35.90	35.98	44.89	53.49	74.00	-20.51	peak
6 q	9848.000	10.49	37.30	35.57	41.58	53.80	74.00	-20.20	peak

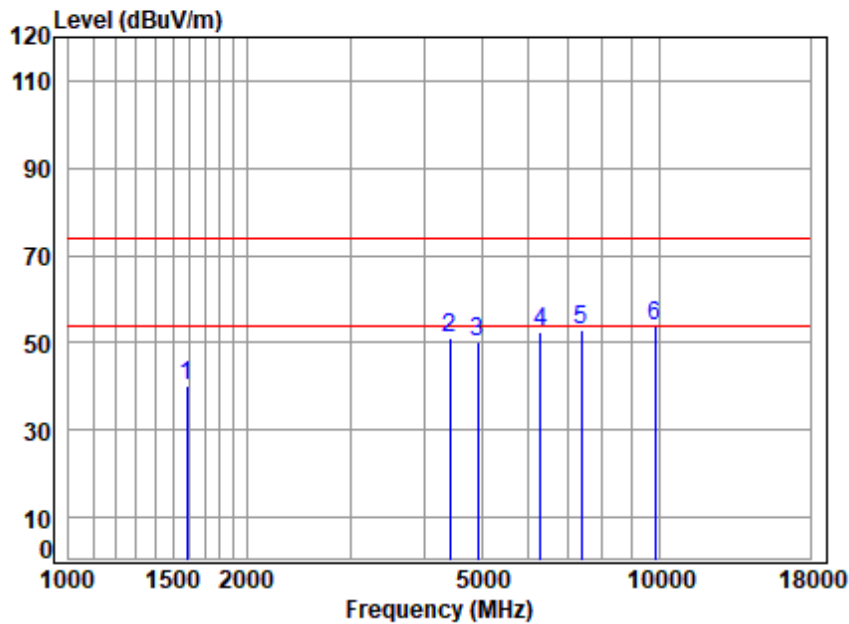


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1583.392	3.35	26.30	36.67	47.27	40.25	74.00	-33.75	peak
2	4417.841	6.69	33.50	34.62	45.67	51.24	74.00	-22.76	peak
3	4924.000	7.15	34.15	34.94	43.96	50.32	74.00	-23.68	peak
4	6285.695	8.21	35.20	35.30	44.54	52.65	74.00	-21.35	peak
5	7386.000	8.68	35.90	35.98	44.48	53.08	74.00	-20.92	peak
6 q	9848.000	10.49	37.30	35.57	41.69	53.91	74.00	-20.09	peak

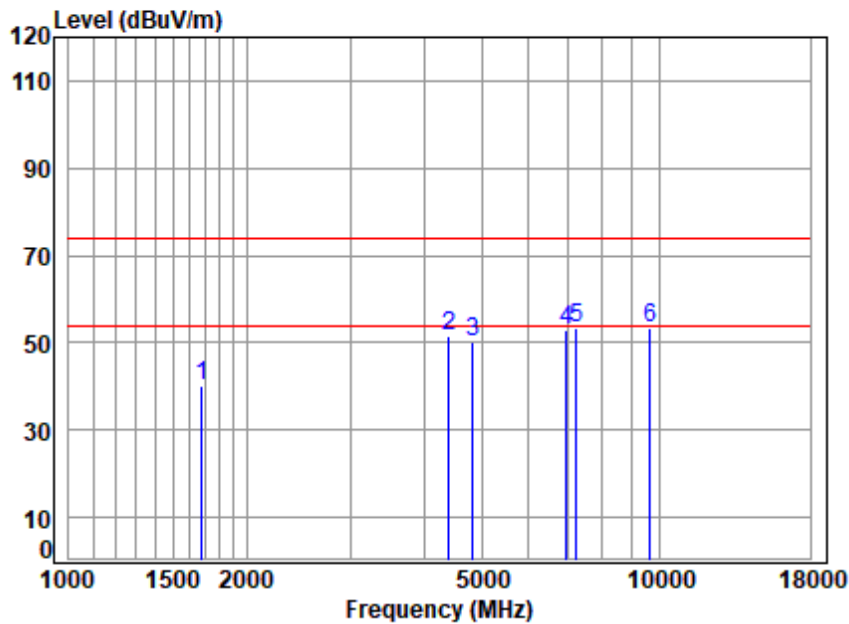


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1677.621	3.46	26.76	36.45	46.44	40.21	74.00	-33.79	peak
2	4405.090	6.68	33.50	34.61	46.04	51.61	74.00	-22.39	peak
3	4824.000	7.06	33.90	34.88	44.06	50.14	74.00	-23.86	peak
4	6954.852	8.31	35.71	35.87	44.71	52.86	74.00	-21.14	peak
5 q	7236.000	8.54	35.80	35.95	44.89	53.28	74.00	-20.72	peak
6	9648.000	10.41	37.10	35.55	41.23	53.19	74.00	-20.81	peak

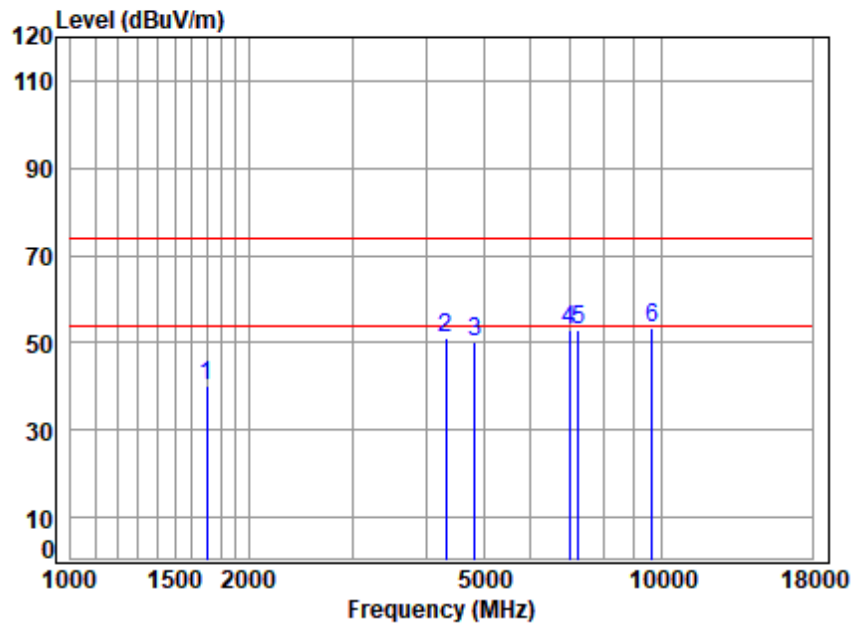


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1702.042	3.49	26.80	36.40	46.18	40.07	74.00	-33.93	peak
2	4316.859	6.60	33.60	34.55	45.68	51.33	74.00	-22.67	peak
3	4824.000	7.06	33.90	34.88	44.15	50.23	74.00	-23.77	peak
4	6974.982	8.32	35.75	35.89	44.76	52.94	74.00	-21.06	peak
5	7236.000	8.54	35.80	35.95	44.38	52.77	74.00	-21.23	peak
6 q	9648.000	10.41	37.10	35.55	41.41	53.37	74.00	-20.63	peak

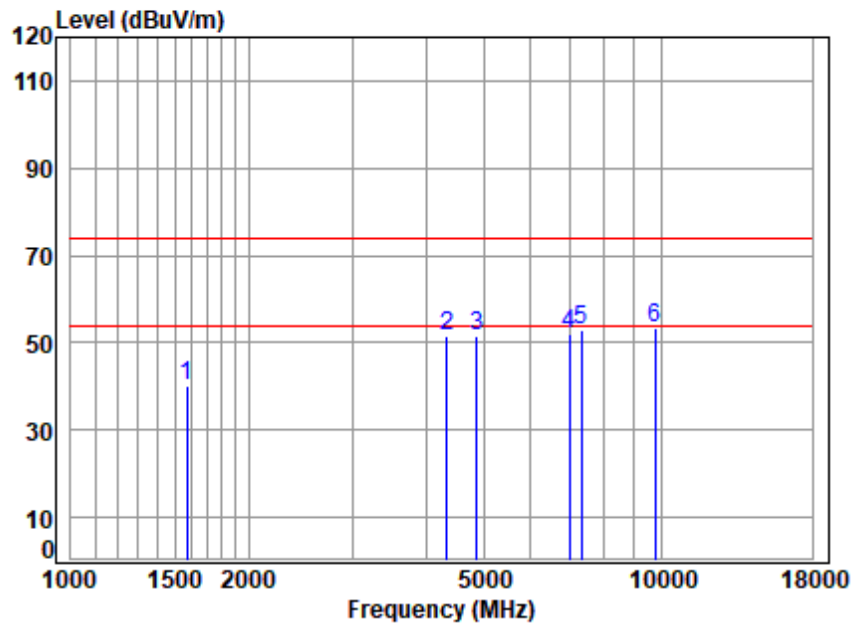


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1574.265	3.34	26.19	36.69	47.48	40.32	74.00	-33.68	peak
2	4341.886	6.62	33.60	34.57	45.97	51.62	74.00	-22.38	peak
3	4874.000	7.10	34.05	34.91	45.33	51.57	74.00	-22.43	peak
4	6974.982	8.32	35.75	35.89	44.05	52.23	74.00	-21.77	peak
5	7311.000	8.61	35.90	35.97	44.44	52.98	74.00	-21.02	peak
6 q	9748.000	10.45	37.20	35.56	41.29	53.38	74.00	-20.62	peak

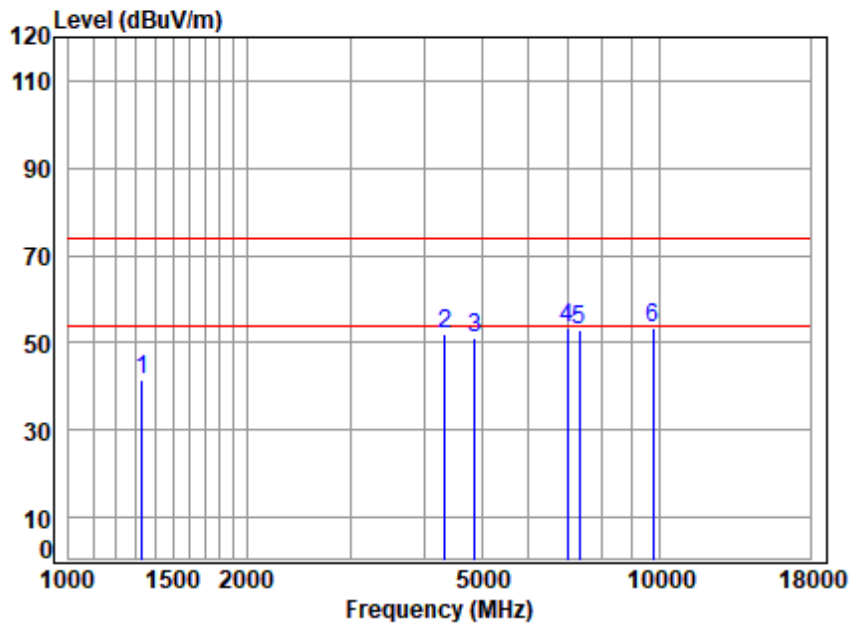


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1331.288	3.01	24.83	37.32	51.10	41.62	74.00	-32.38	peak
2	4341.886	6.62	33.60	34.57	46.31	51.96	74.00	-22.04	peak
3	4874.000	7.10	34.05	34.91	45.07	51.31	74.00	-22.69	peak
4 q	6995.172	8.32	35.79	35.91	45.16	53.36	74.00	-20.64	peak
5	7311.000	8.61	35.90	35.97	44.40	52.94	74.00	-21.06	peak
6	9748.000	10.45	37.20	35.56	41.07	53.16	74.00	-20.84	peak

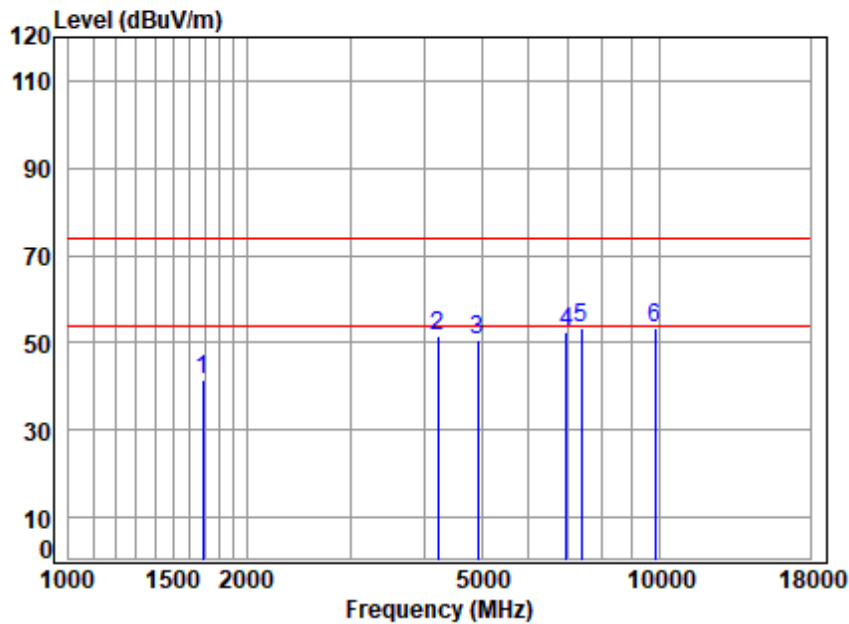


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
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	1687.347	3.47	26.77	36.43	47.56	41.37	74.00	-32.63	peak
2	4218.186	6.50	33.47	34.48	45.87	51.36	74.00	-22.64	peak
3	4924.000	7.15	34.15	34.94	44.38	50.74	74.00	-23.26	peak
4	6954.852	8.31	35.71	35.87	44.33	52.48	74.00	-21.52	peak
5	7386.000	8.68	35.90	35.98	44.56	53.16	74.00	-20.84	peak
6 q	9848.000	10.49	37.30	35.57	41.02	53.24	74.00	-20.76	peak

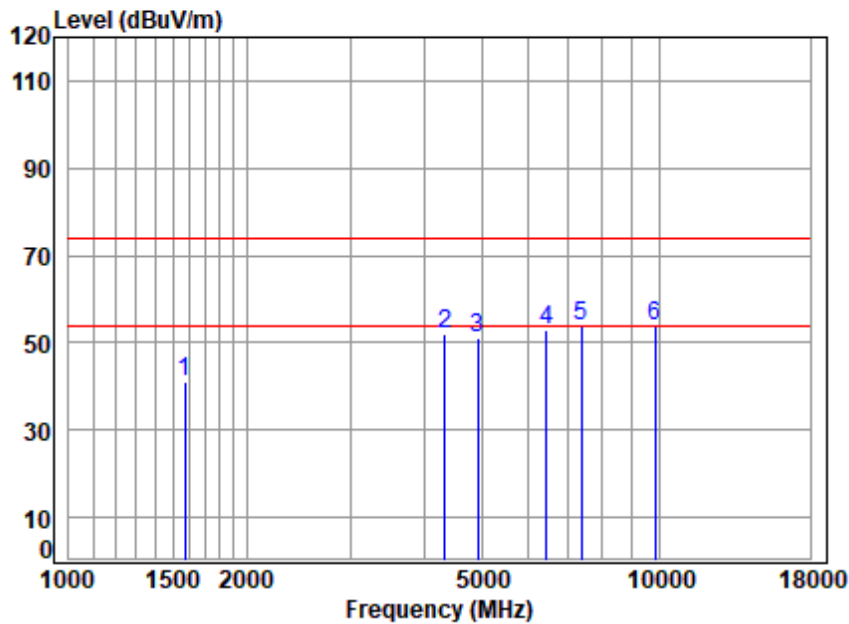


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
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	1574.265	3.34	26.19	36.69	48.18	41.02	74.00	-32.98	peak
2	4329.354	6.61	33.60	34.56	46.44	52.09	74.00	-21.91	peak
3	4924.000	7.15	34.15	34.94	44.68	51.04	74.00	-22.96	peak
4	6432.732	8.23	35.37	35.43	44.87	53.04	74.00	-20.96	peak
5	7386.000	8.68	35.90	35.98	45.11	53.71	74.00	-20.29	peak
6 q	9848.000	10.49	37.30	35.57	41.61	53.83	74.00	-20.17	peak

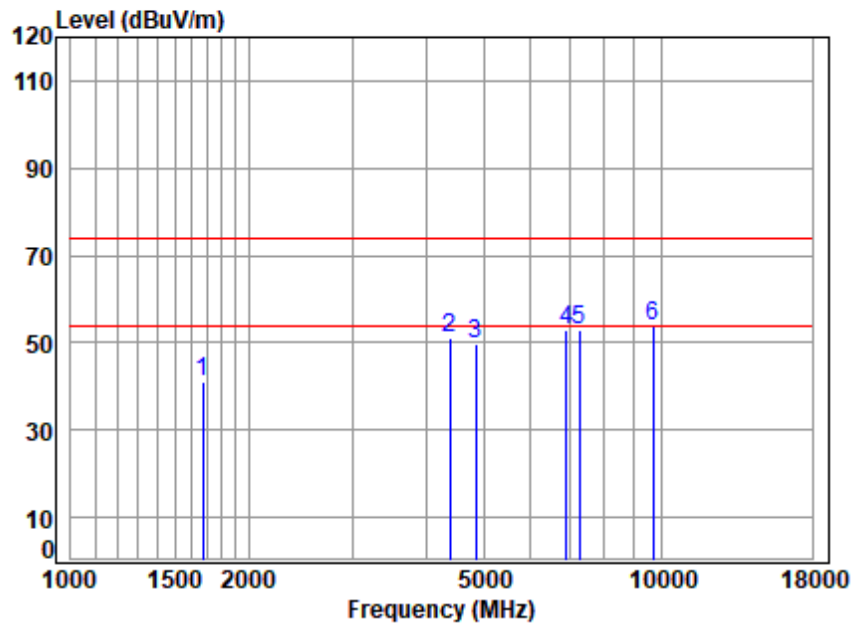


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 2422 TX RSE
: 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	1672.779	3.46	26.75	36.46	47.25	41.00	74.00	-33.00	peak
2	4392.376	6.67	33.52	34.60	45.41	51.00	74.00	-23.00	peak
3	4844.000	7.08	33.98	34.89	43.62	49.79	74.00	-24.21	peak
4	6914.763	8.31	35.63	35.84	44.97	53.07	74.00	-20.93	peak
5	7266.000	8.57	35.83	35.96	44.48	52.92	74.00	-21.08	peak
6 q	9688.000	10.42	37.10	35.56	42.01	53.97	74.00	-20.03	peak

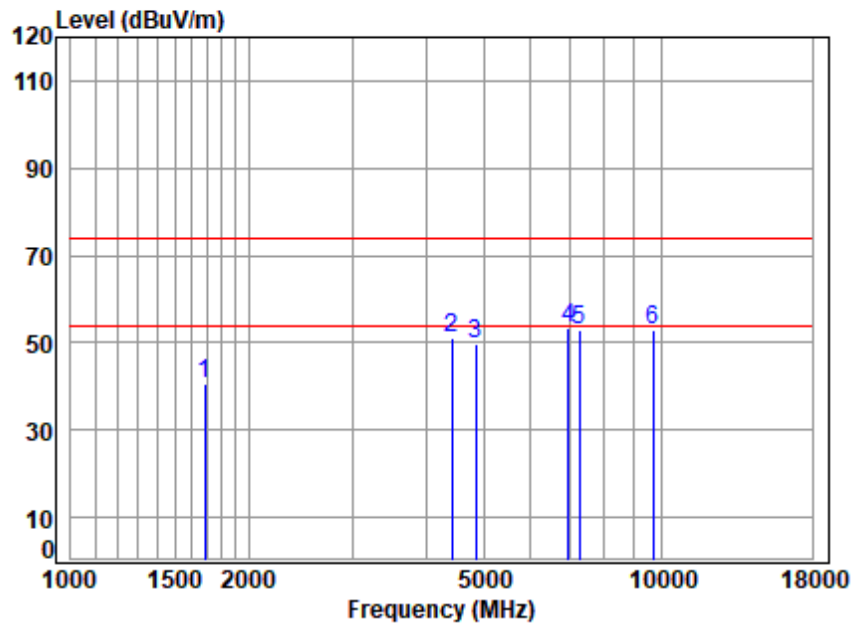


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 2422 TX RSE
: 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	1687.347	3.47	26.77	36.43	47.01	40.82	74.00	-33.18	peak
2	4417.841	6.69	33.50	34.62	45.50	51.07	74.00	-22.93	peak
3	4844.000	7.08	33.98	34.89	43.70	49.87	74.00	-24.13	peak
4 q	6954.852	8.31	35.71	35.87	45.18	53.33	74.00	-20.67	peak
5	7266.000	8.57	35.83	35.96	44.49	52.93	74.00	-21.07	peak
6	9688.000	10.42	37.10	35.56	40.94	52.90	74.00	-21.10	peak

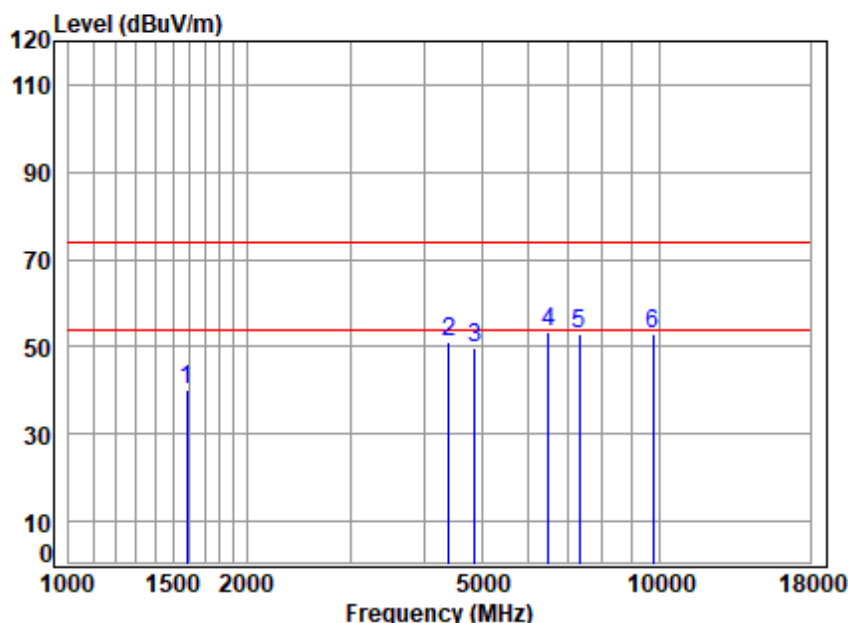


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

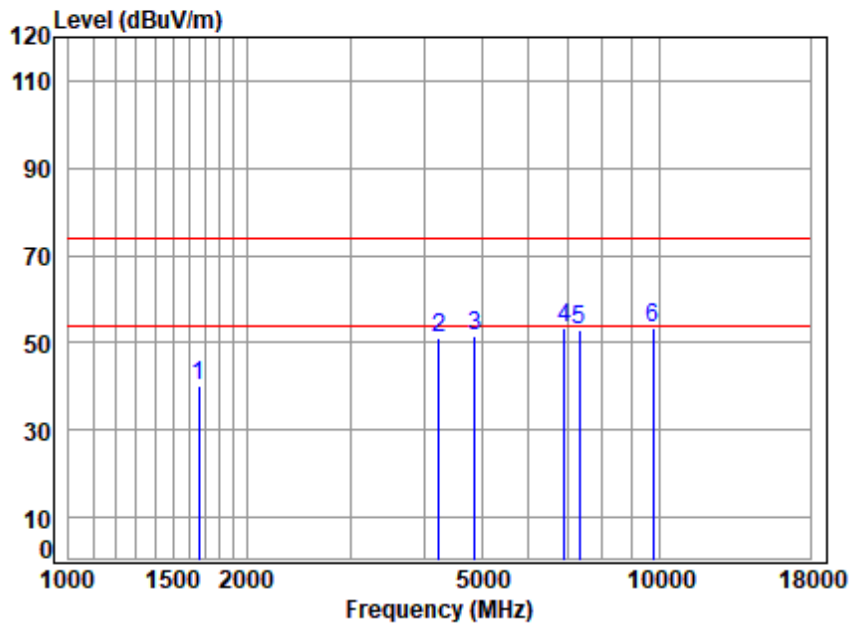
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.35	26.30	36.67	47.19	40.17	74.00	-33.83	peak
2	4405.090	6.68	33.50	34.61	45.53	51.10	74.00	-22.90	peak
3	4874.000	7.10	34.05	34.91	43.72	49.96	74.00	-24.04	peak
4 q	6488.754	8.24	35.48	35.48	44.94	53.18	74.00	-20.82	peak
5	7311.000	8.61	35.90	35.97	44.52	53.06	74.00	-20.94	peak
6	9748.000	10.45	37.20	35.56	40.90	52.99	74.00	-21.01	peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 2437 TX RSE
: 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	1663.137	3.45	26.73	36.48	46.59	40.29	74.00	-33.71	peak
2	4230.396	6.51	33.52	34.49	45.54	51.08	74.00	-22.92	peak
3	4874.000	7.10	34.05	34.91	45.10	51.34	74.00	-22.66	peak
4 q	6894.806	8.30	35.60	35.82	45.38	53.46	74.00	-20.54	peak
5	7311.000	8.61	35.90	35.97	44.18	52.72	74.00	-21.28	peak
6	9748.000	10.45	37.20	35.56	41.30	53.39	74.00	-20.61	peak

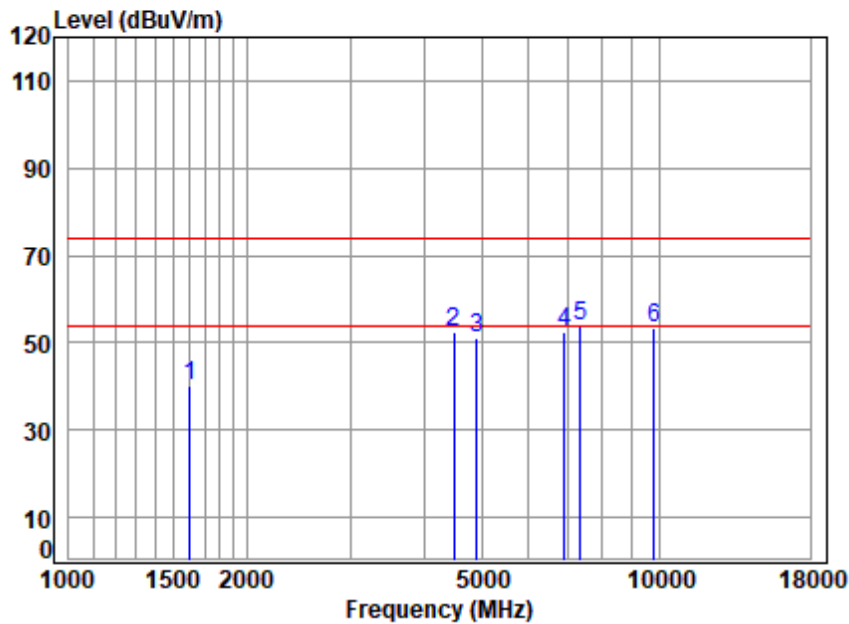


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00736AT/00737AT
Mode : 2452 TX RSE
: 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	1601.804	3.37	26.51	36.63	46.85	40.10	74.00	-33.90	peak
2	4495.125	6.77	33.50	34.67	46.85	52.45	74.00	-21.55	peak
3	4904.000	7.13	34.11	34.92	44.88	51.20	74.00	-22.80	peak
4	6894.806	8.30	35.60	35.82	44.61	52.69	74.00	-21.31	peak
5 q	7356.000	8.65	35.90	35.98	45.19	53.76	74.00	-20.24	peak
6	9808.000	10.47	37.22	35.57	41.18	53.30	74.00	-20.70	peak

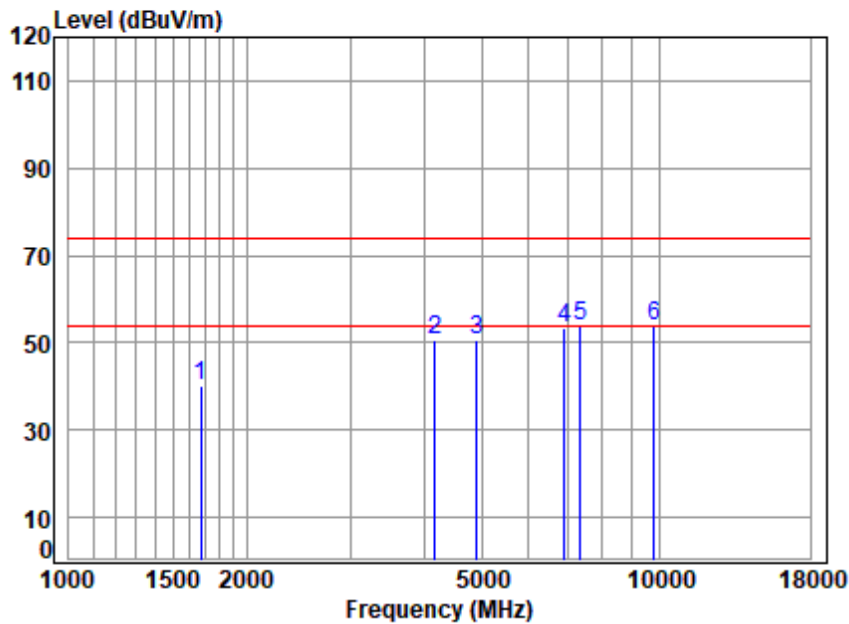


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00736AT/00737AT
Mode : 2452 TX RSE
: 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	1672.779	3.46	26.75	36.46	46.35	40.10	74.00	-33.90	peak
2	4169.698	6.45	33.22	34.45	45.59	50.81	74.00	-23.19	peak
3	4904.000	7.13	34.11	34.92	44.23	50.55	74.00	-23.45	peak
4	6914.763	8.31	35.63	35.84	45.22	53.32	74.00	-20.68	peak
5 q	7356.000	8.65	35.90	35.98	45.30	53.87	74.00	-20.13	peak
6	9808.000	10.47	37.22	35.57	41.59	53.71	74.00	-20.29	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2303000736AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2303000736AT



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	8.417	8.563	98.29	0.07	0.12
		2437	8.417	8.563	98.29	0.07	0.11
		2462	8.417	8.557	98.36	0.07	0.04
802.11g	SISO	2412	1.396	1.540	90.65	0.43	0.00
		2437	1.397	1.541	90.66	0.43	0.07
		2462	1.396	1.539	90.71	0.42	0.00
802.11n (HT20)	SISO	2412	1.308	1.452	90.08	0.45	0.00
		2437	1.309	1.452	90.15	0.45	0.00
		2462	1.308	1.452	90.08	0.45	0.03
802.11n (HT40)	SISO	2422	0.649	0.792	81.94	0.86	0.03
		2437	0.649	0.792	81.94	0.86	0.03
		2452	0.649	0.792	81.94	0.86	0.03



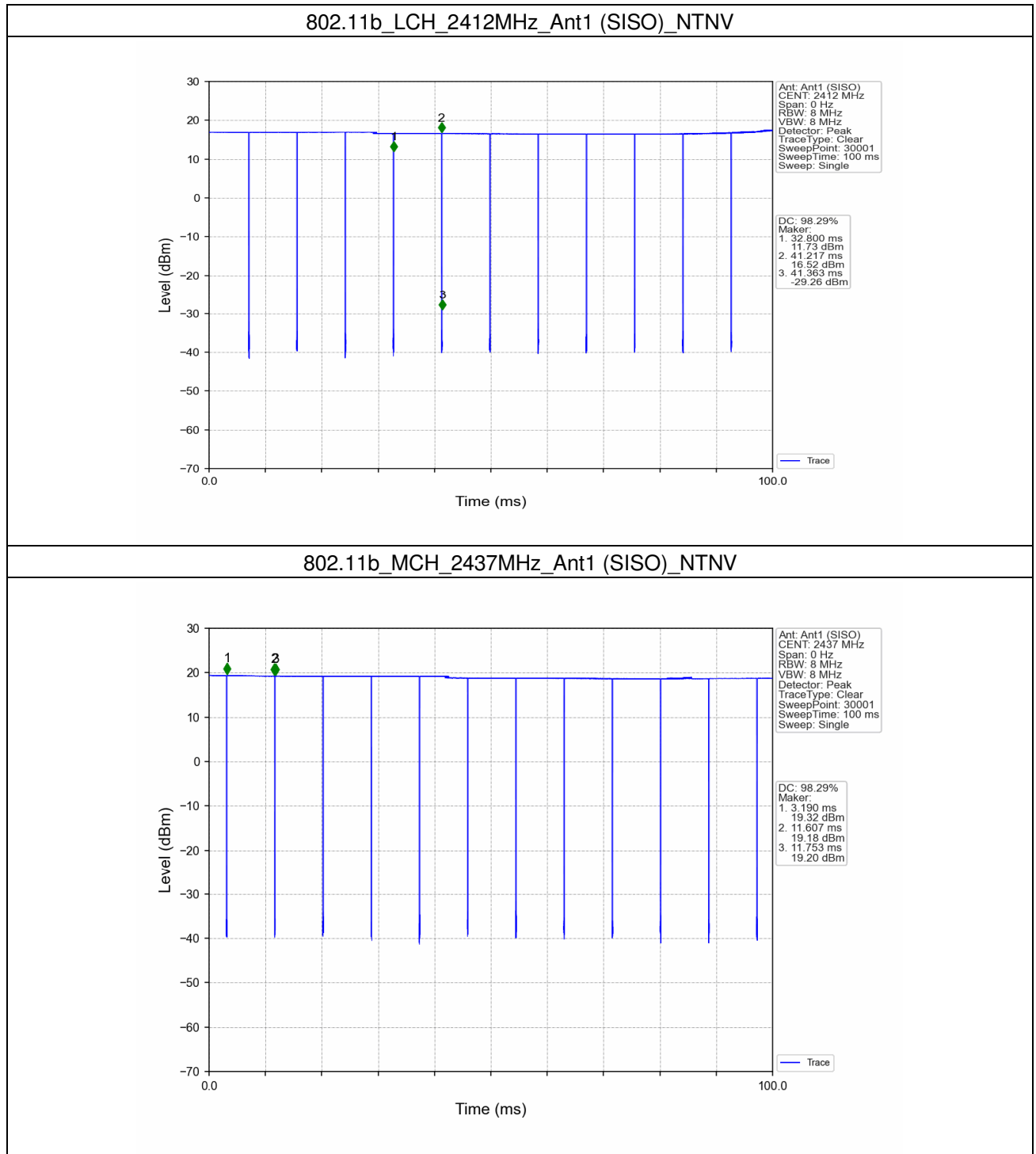
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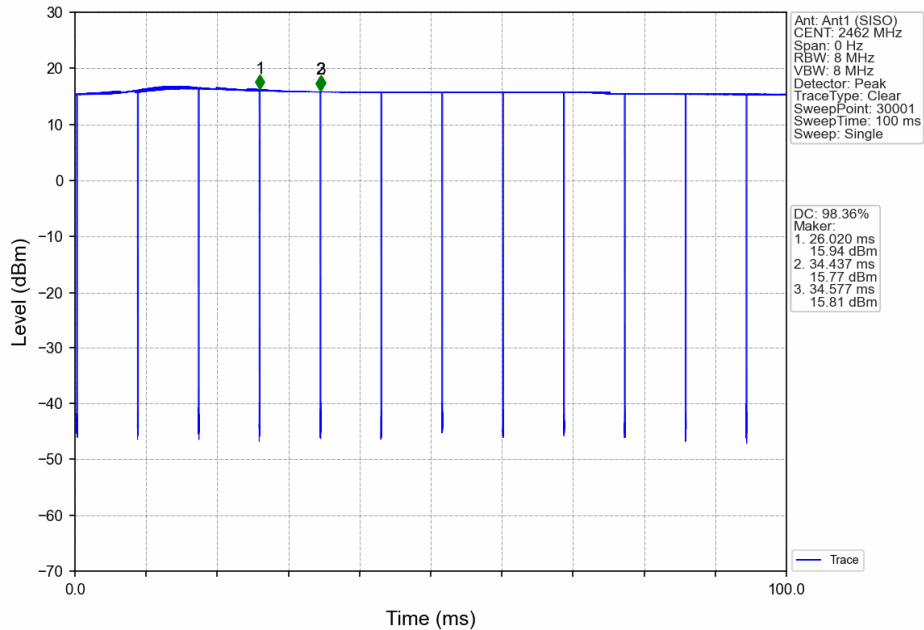
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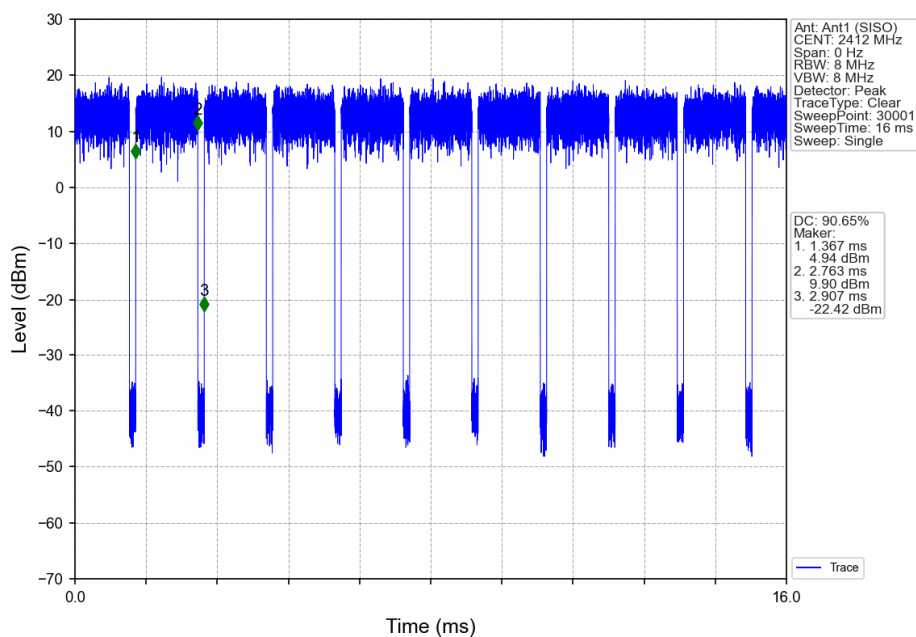
1.1.2 Test Graph



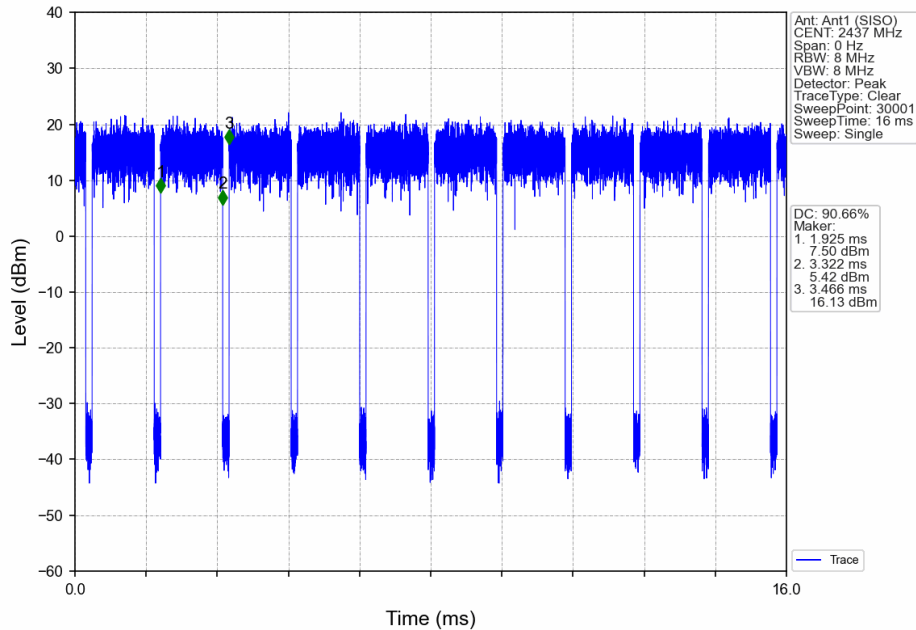
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



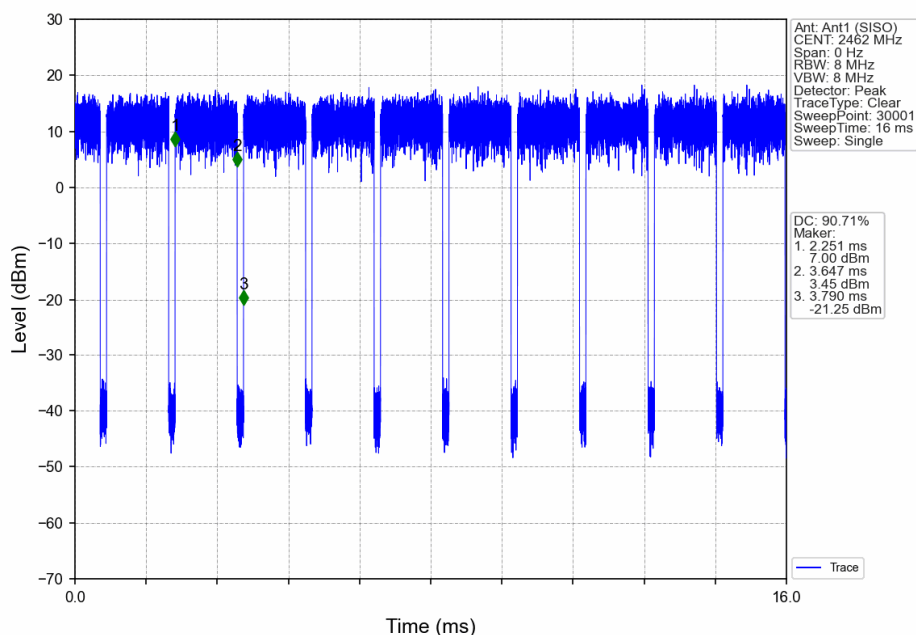
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



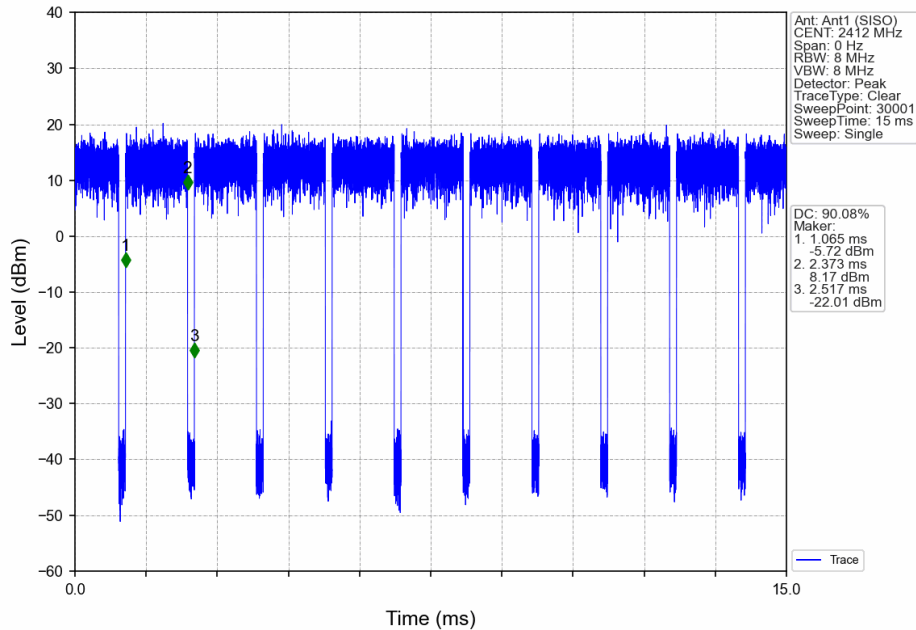
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



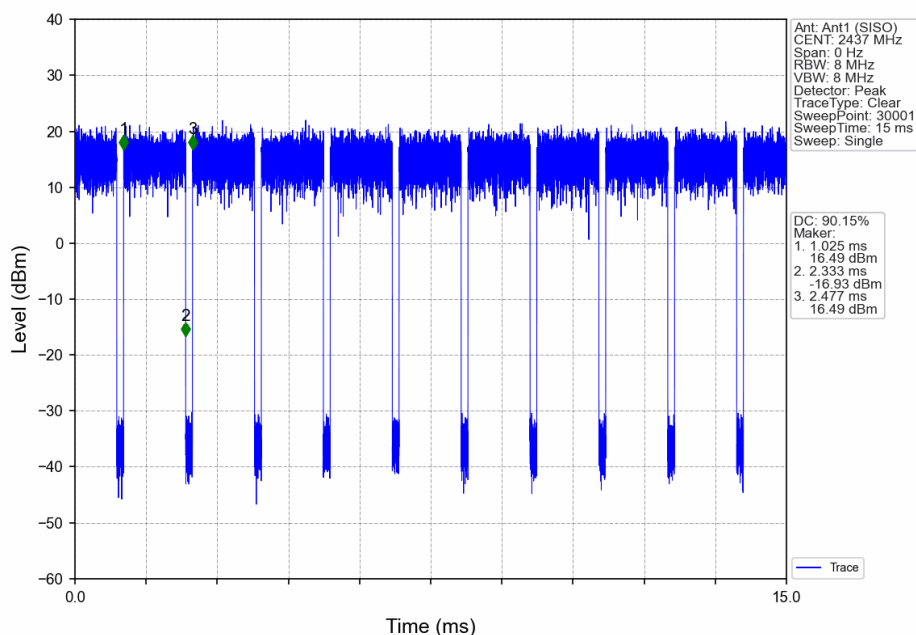
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



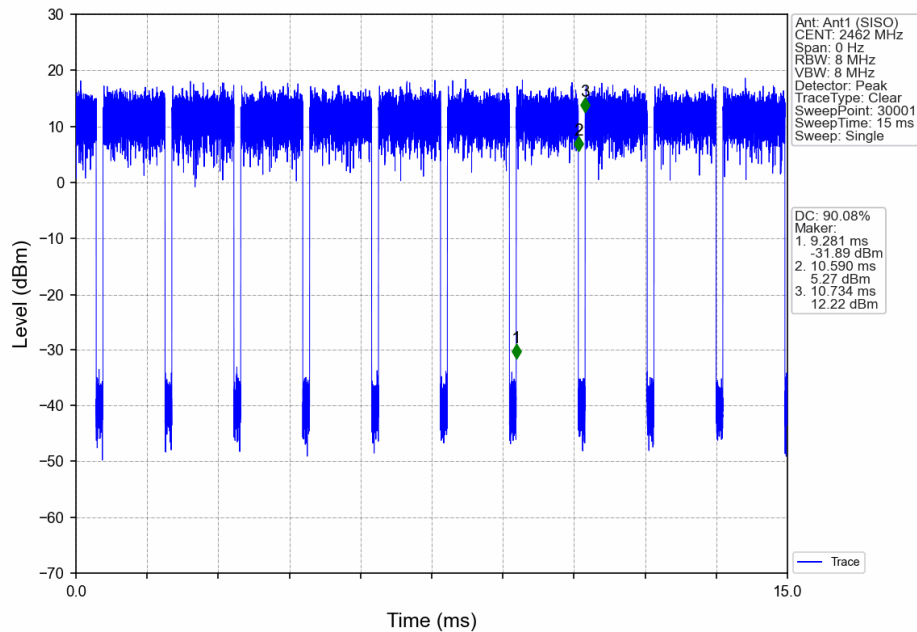
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



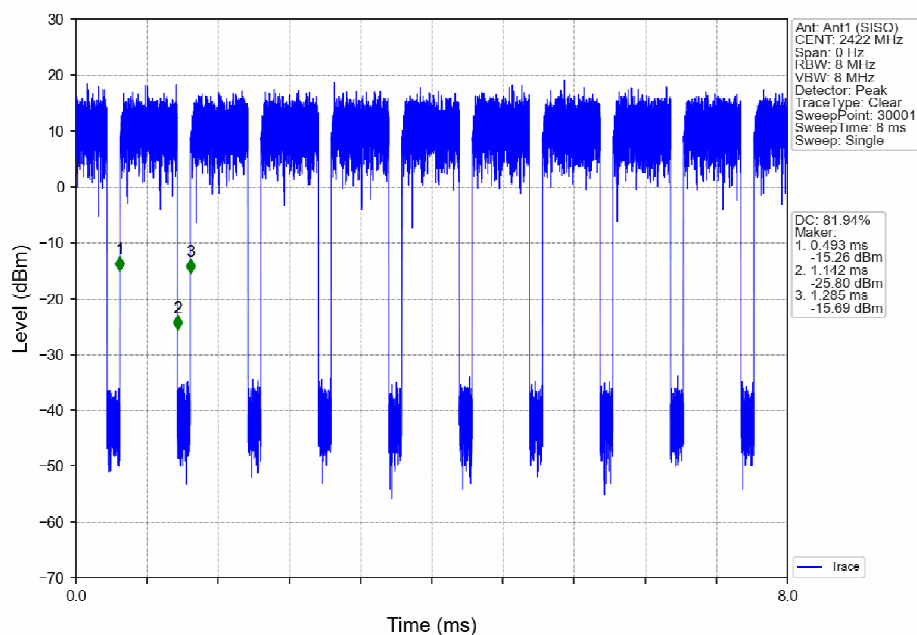
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



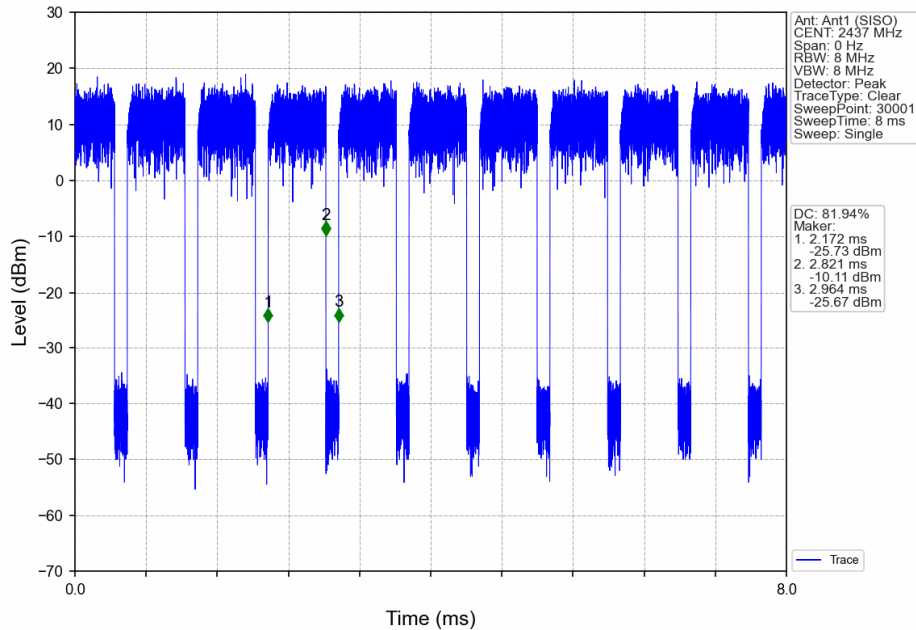
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



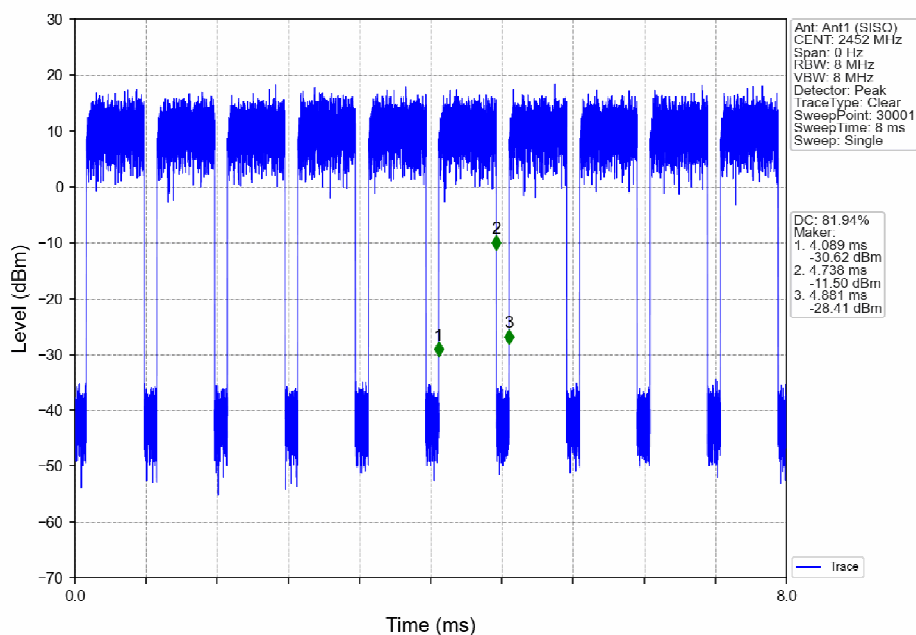
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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

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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	11.493	Pass
		2437	1	11.670	Pass
		2462	1	11.395	Pass
802.11g	SISO	2412	1	17.232	Pass
		2437	1	17.731	Pass
		2462	1	17.233	Pass
802.11n (HT20)	SISO	2412	1	18.036	Pass
		2437	1	18.750	Pass
		2462	1	18.019	Pass
802.11n (HT40)	SISO	2422	1	36.928	Pass
		2437	1	37.290	Pass
		2452	1	36.048	Pass

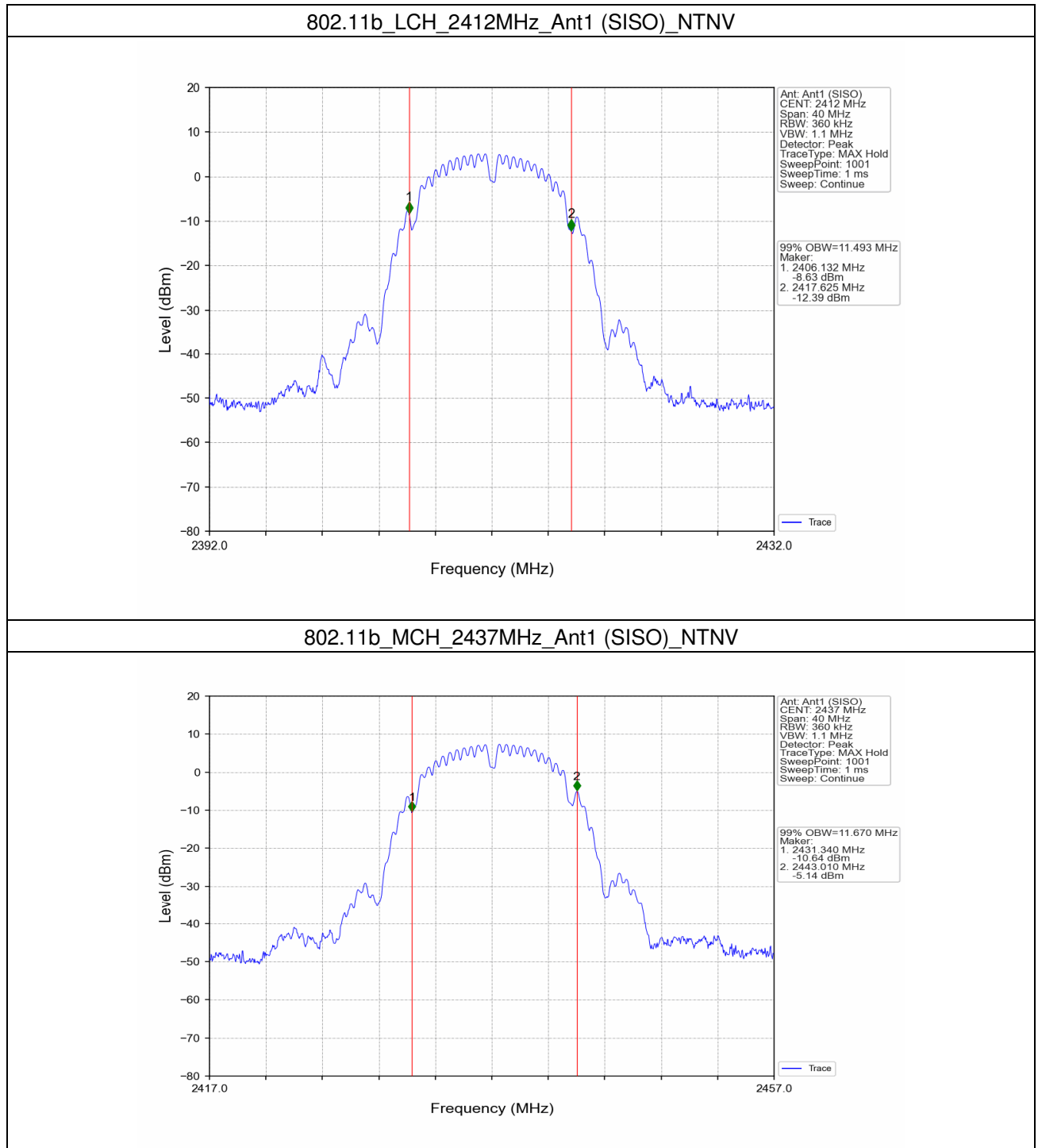


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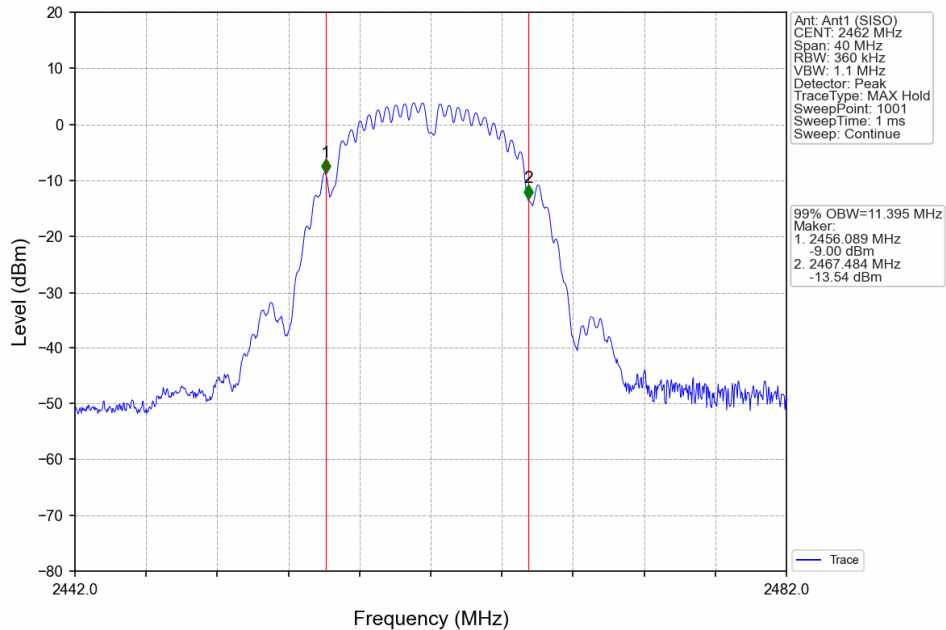
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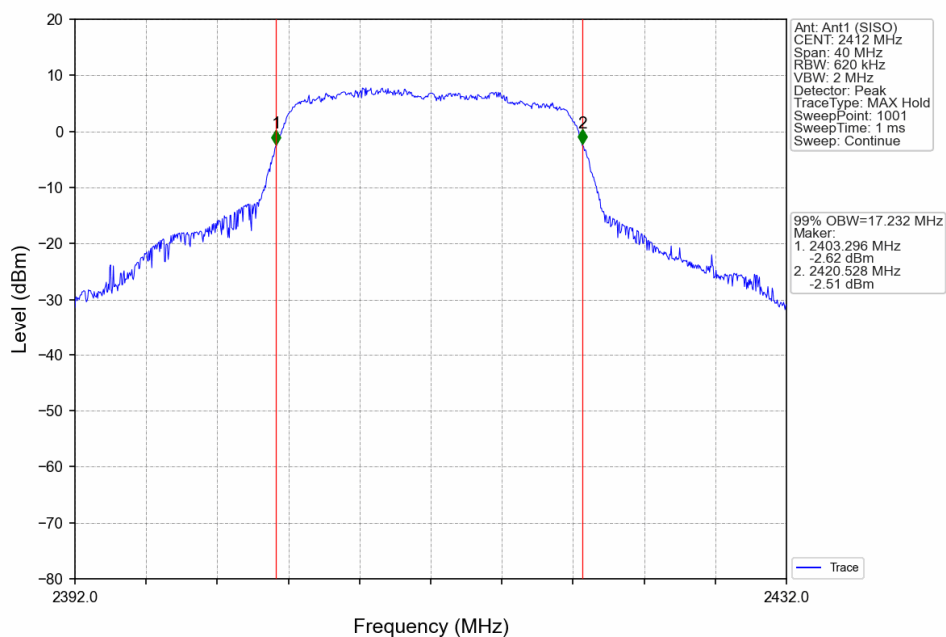
2.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

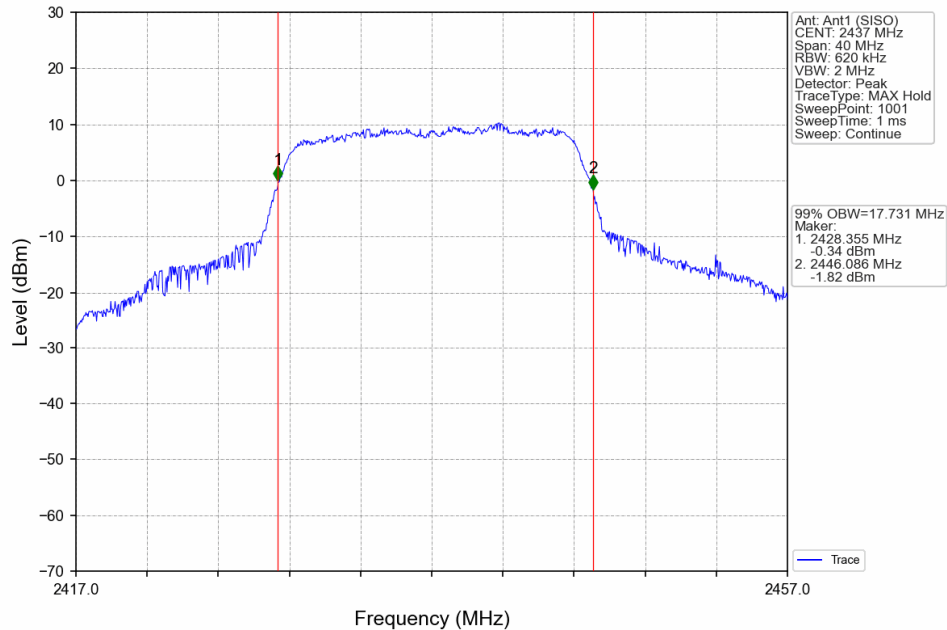


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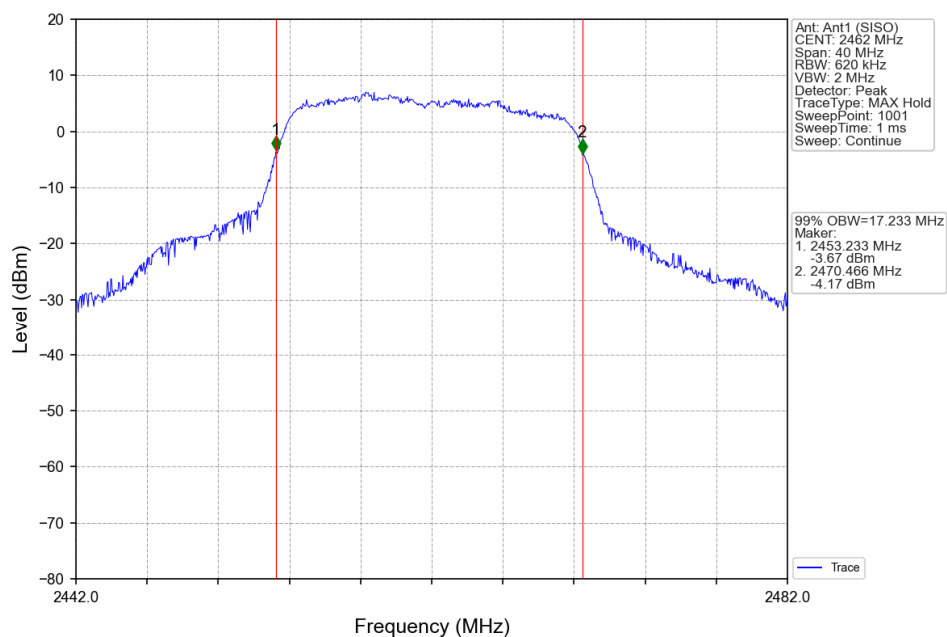
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



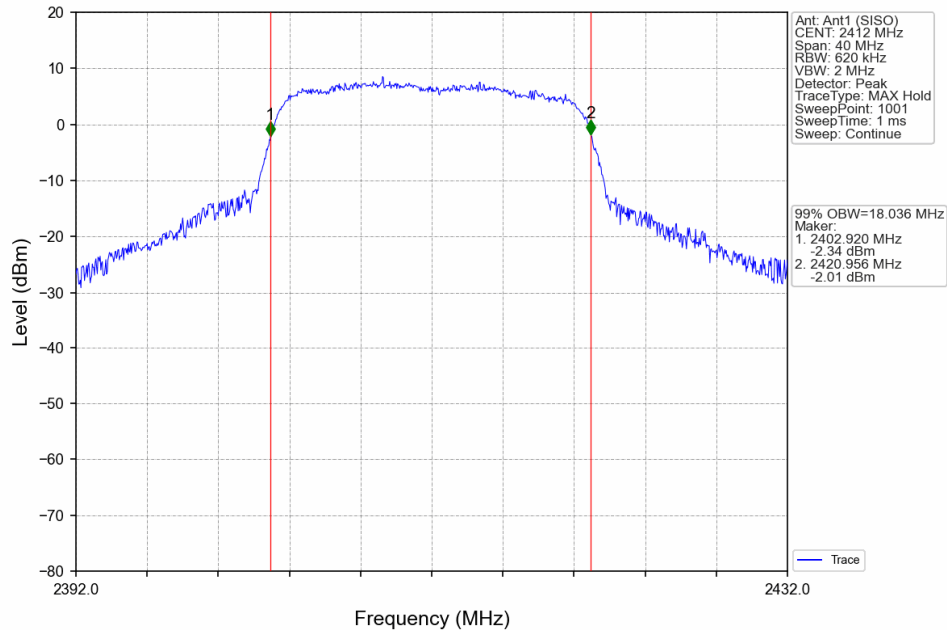
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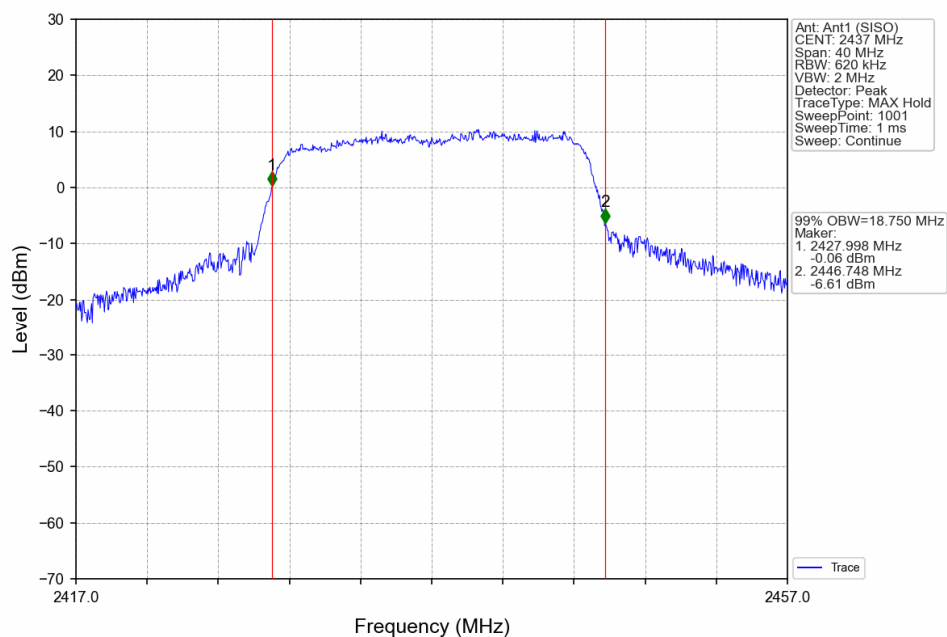
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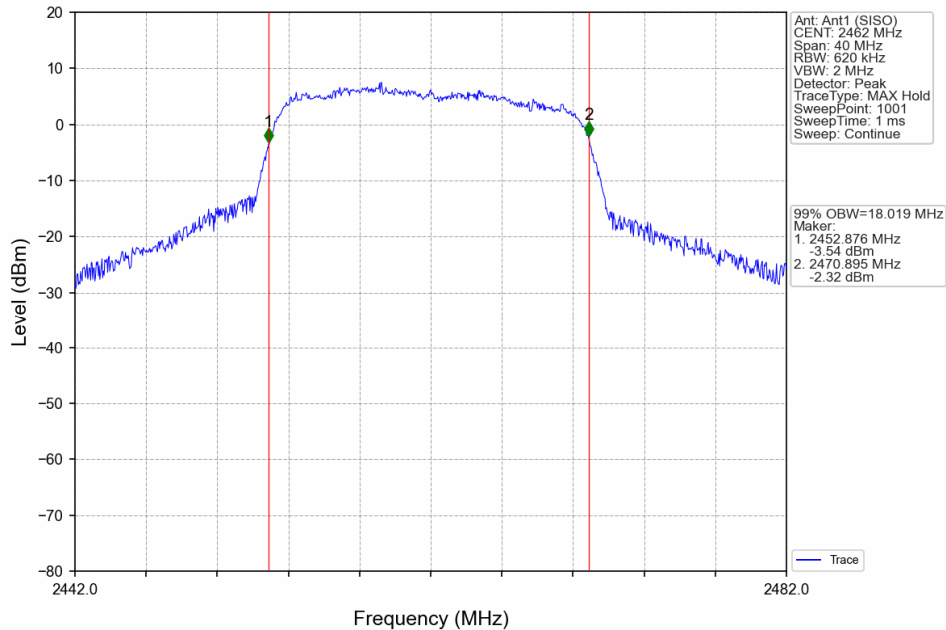
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



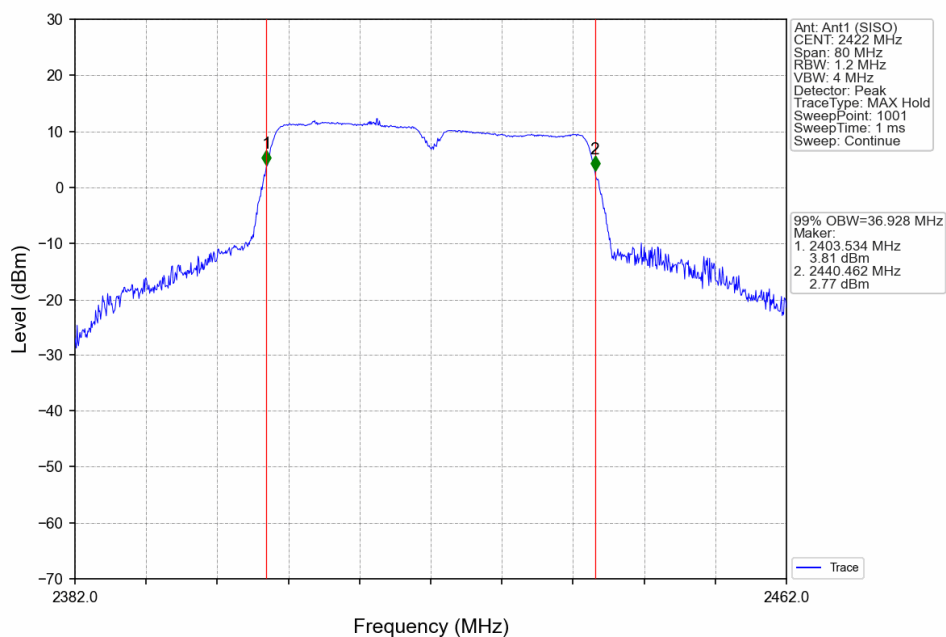
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



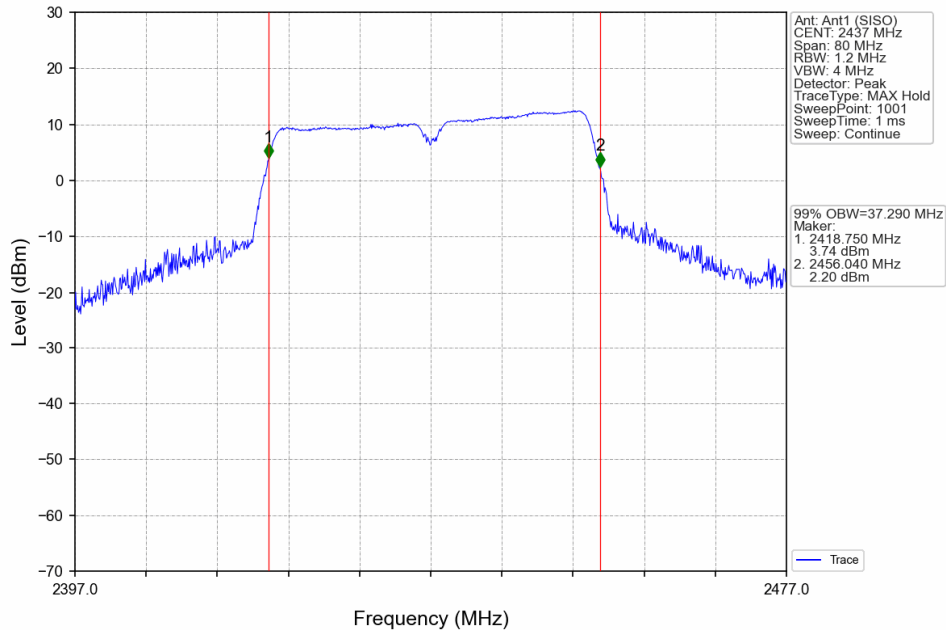
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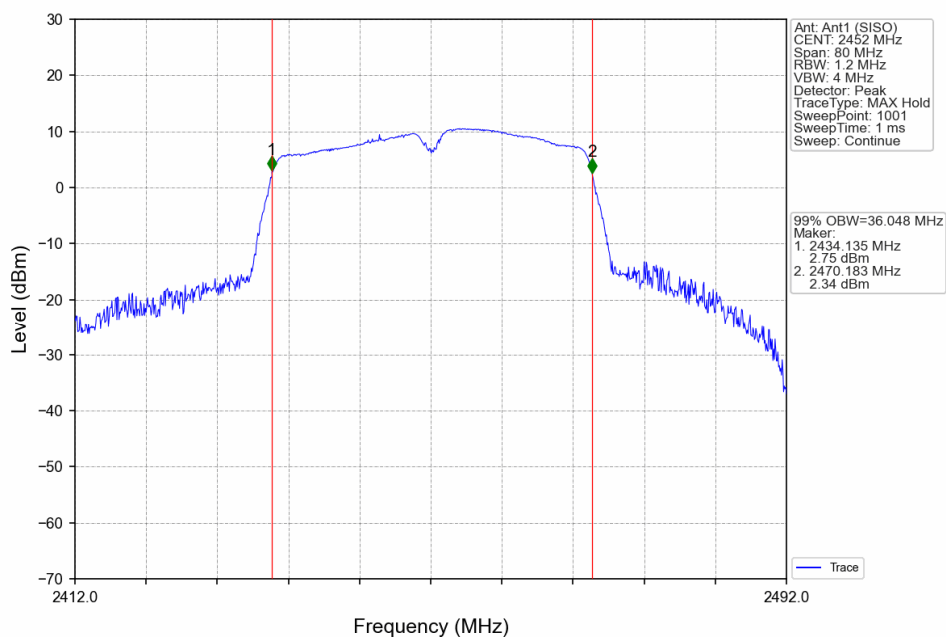
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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

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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	8.596	≥ 0.5	Pass
		2437	1	8.159	≥ 0.5	Pass
		2462	1	8.610	≥ 0.5	Pass
802.11g	SISO	2412	1	15.973	≥ 0.5	Pass
		2437	1	16.128	≥ 0.5	Pass
		2462	1	15.768	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.709	≥ 0.5	Pass
		2437	1	17.173	≥ 0.5	Pass
		2462	1	16.328	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.950	≥ 0.5	Pass
		2437	1	35.783	≥ 0.5	Pass
		2452	1	35.120	≥ 0.5	Pass



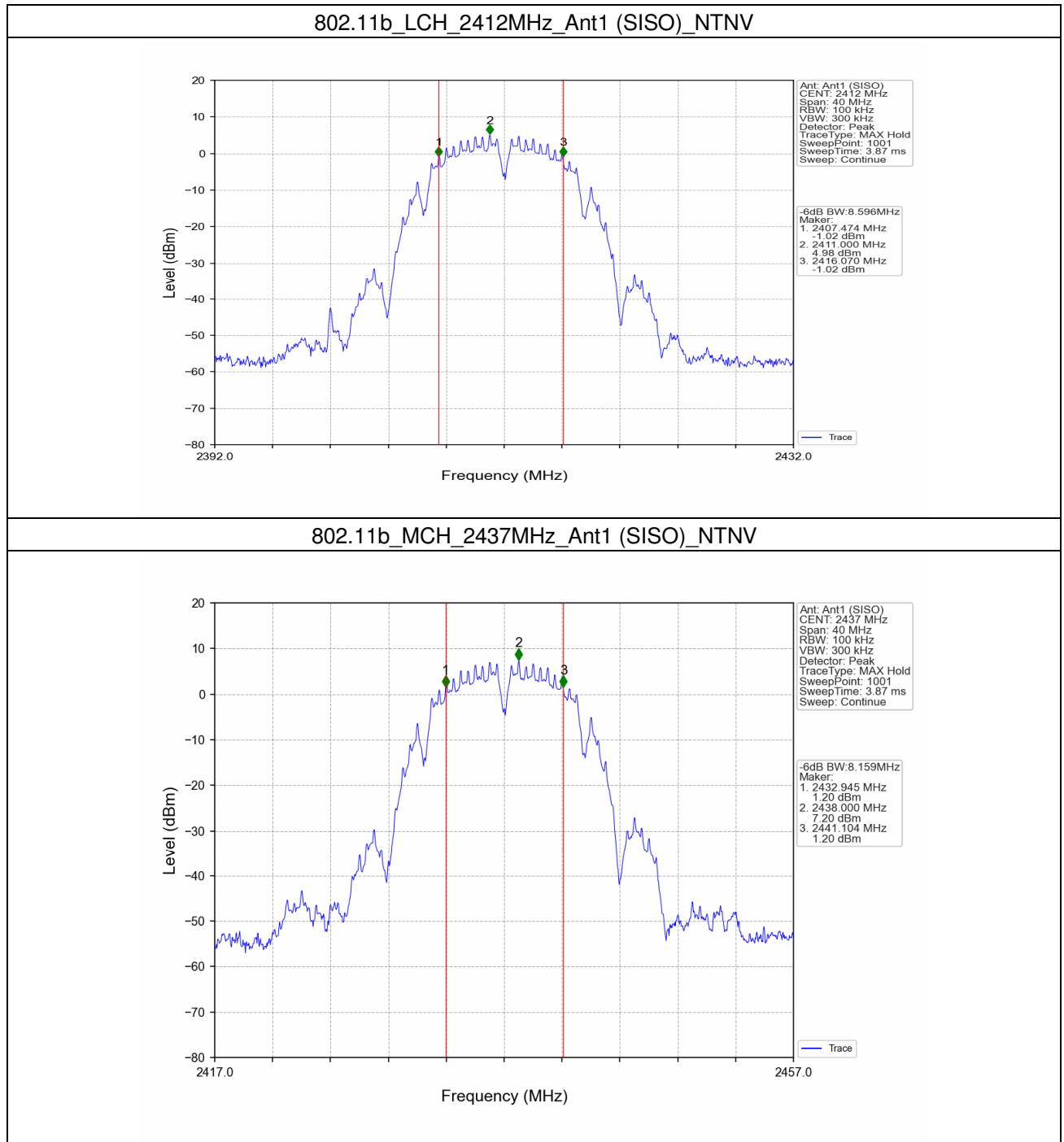
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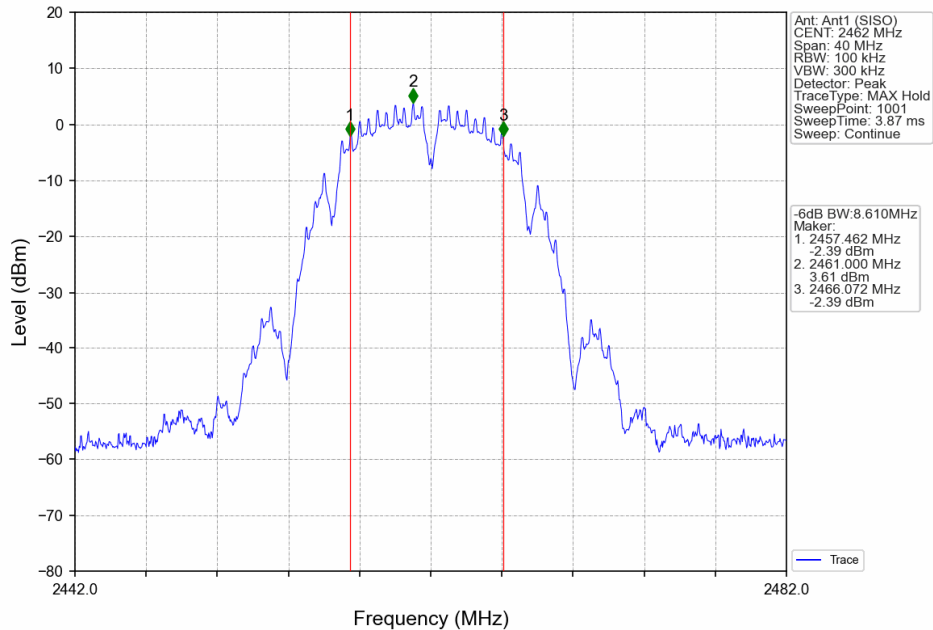
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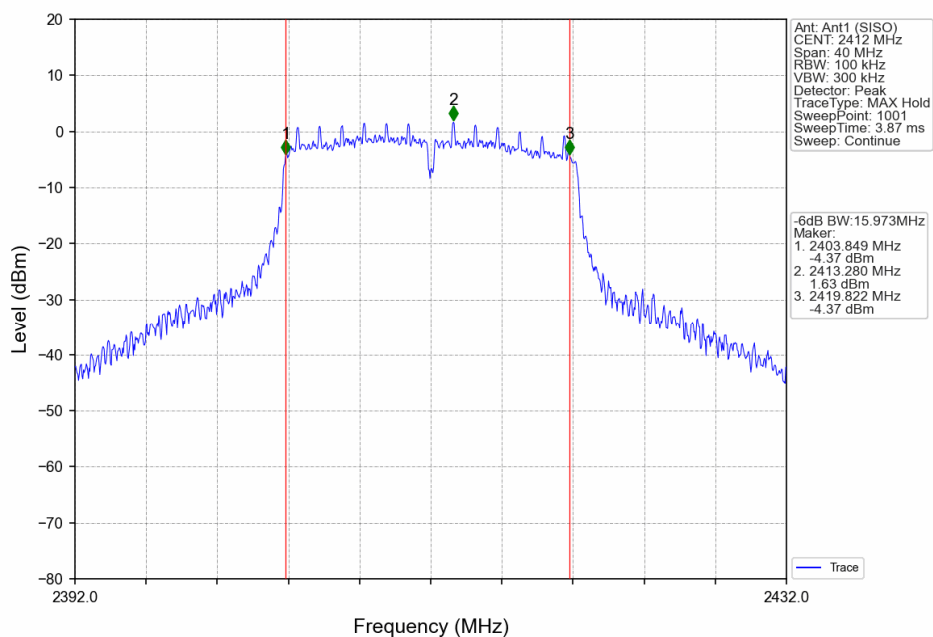
2.2.2 Test Graph



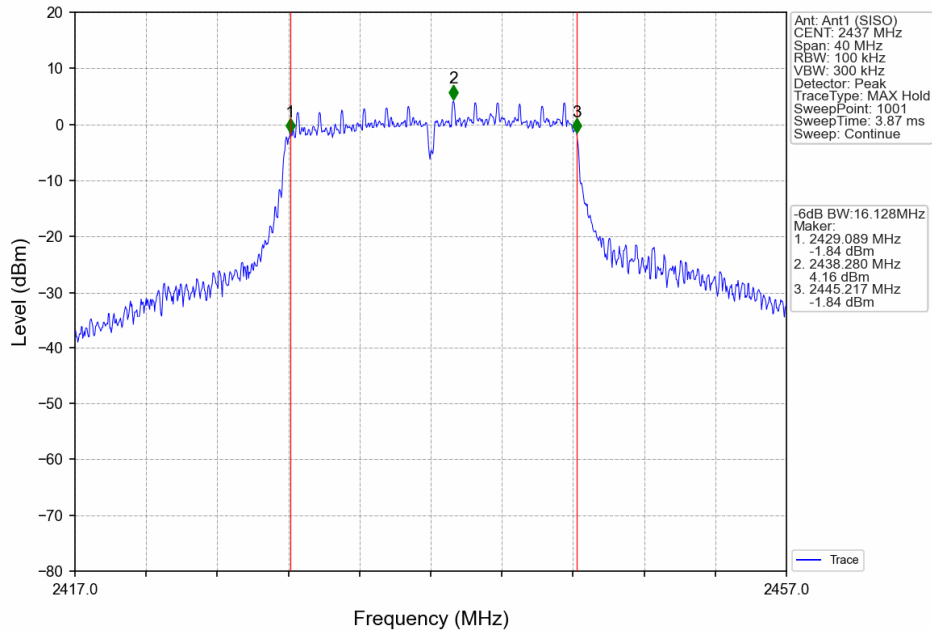
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



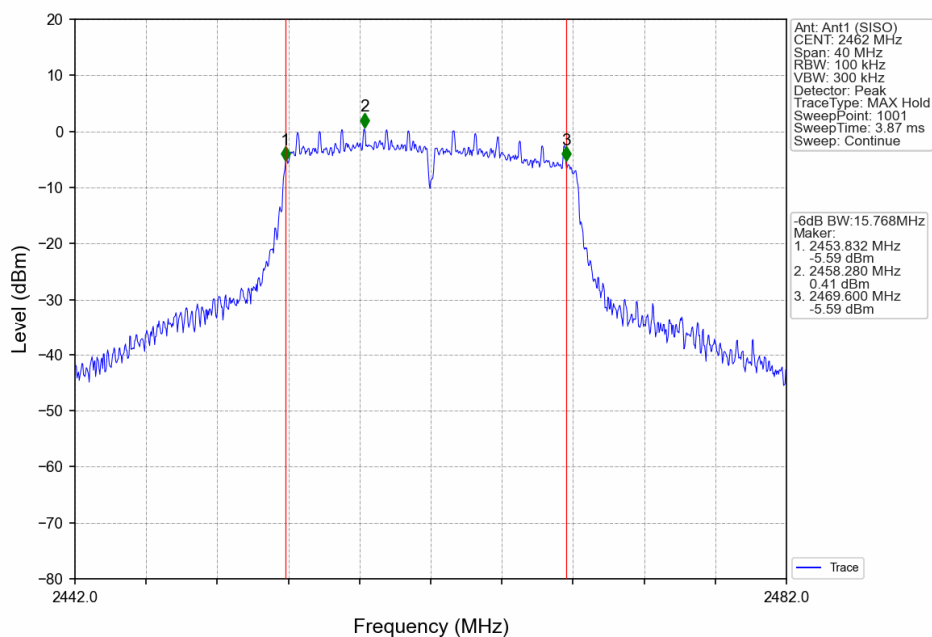
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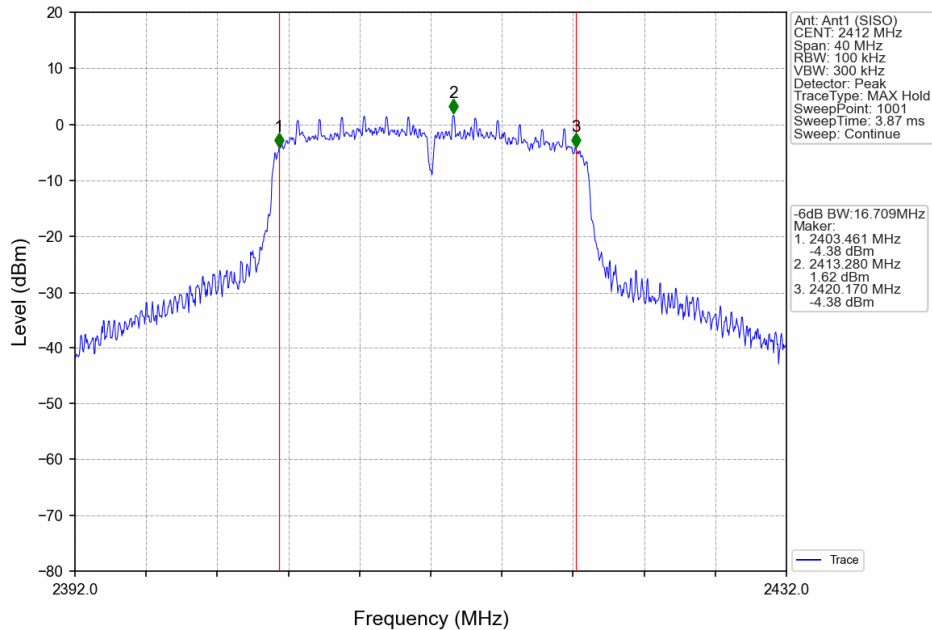
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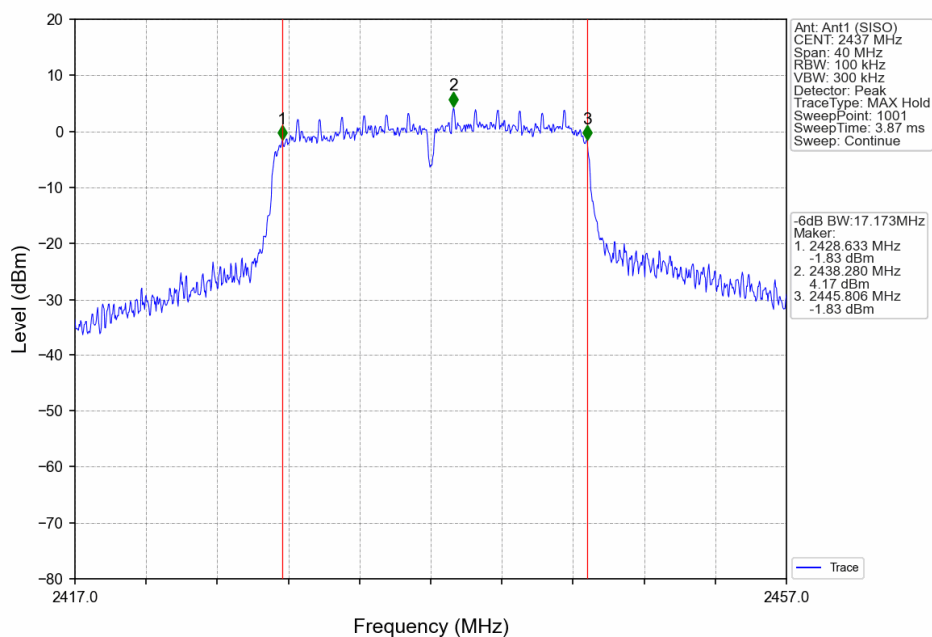
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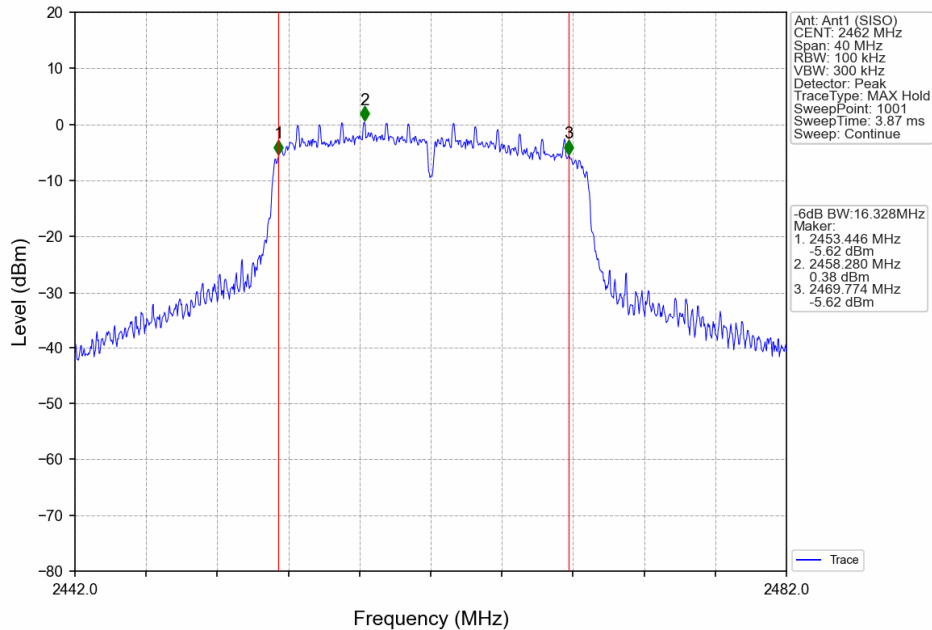
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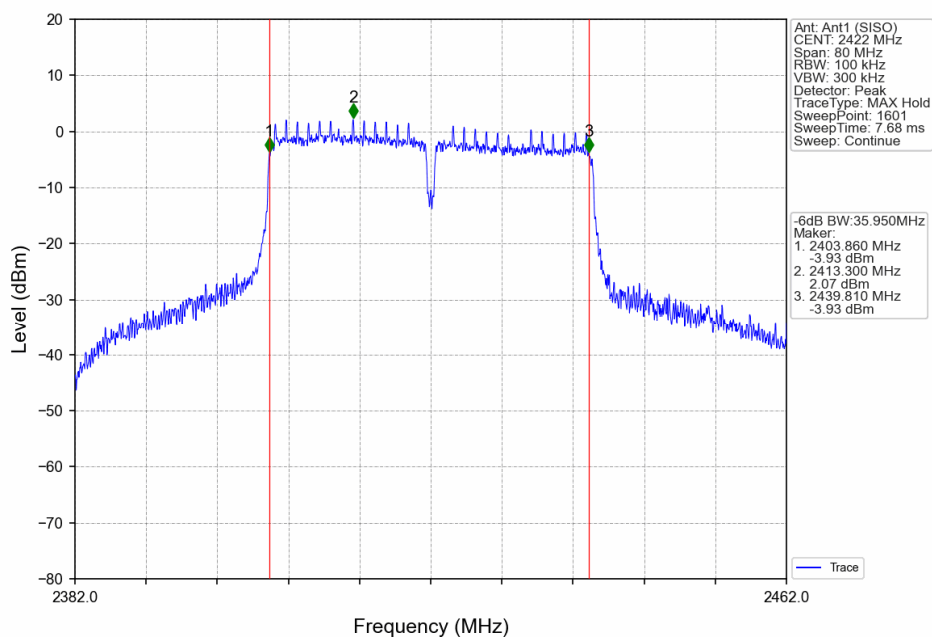
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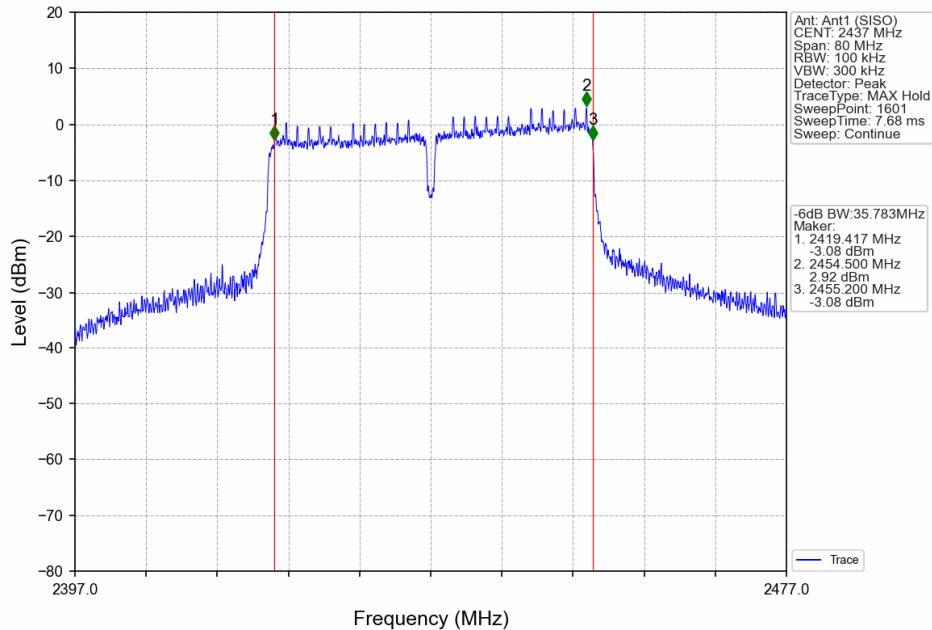
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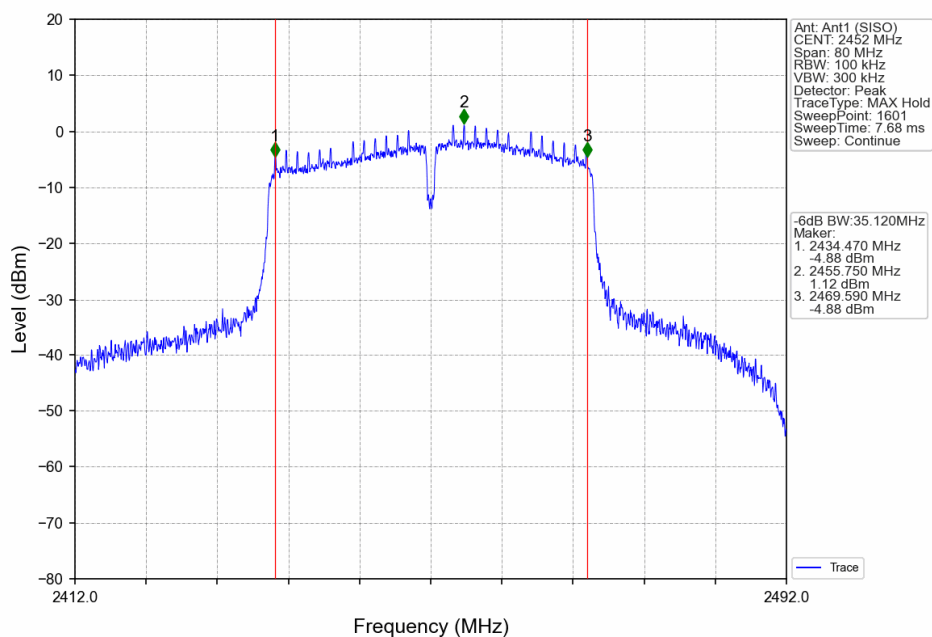
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	12.93	<=30	Pass
		2437	15.27	<=30	Pass
		2462	11.66	<=30	Pass
802.11g	SISO	2412	12.38	<=30	Pass
		2437	14.80	<=30	Pass
		2462	11.11	<=30	Pass
802.11n (HT20)	SISO	2412	12.65	<=30	Pass
		2437	15.17	<=30	Pass
		2462	11.27	<=30	Pass
802.11n (HT40)	SISO	2422	14.41	<=30	Pass
		2437	16.07	<=30	Pass
		2452	13.98	<=30	Pass

Note1: Antenna Gain: Ant1: -3.00dBi;

4. Maximum Power Spectral Density

4.1 PSD

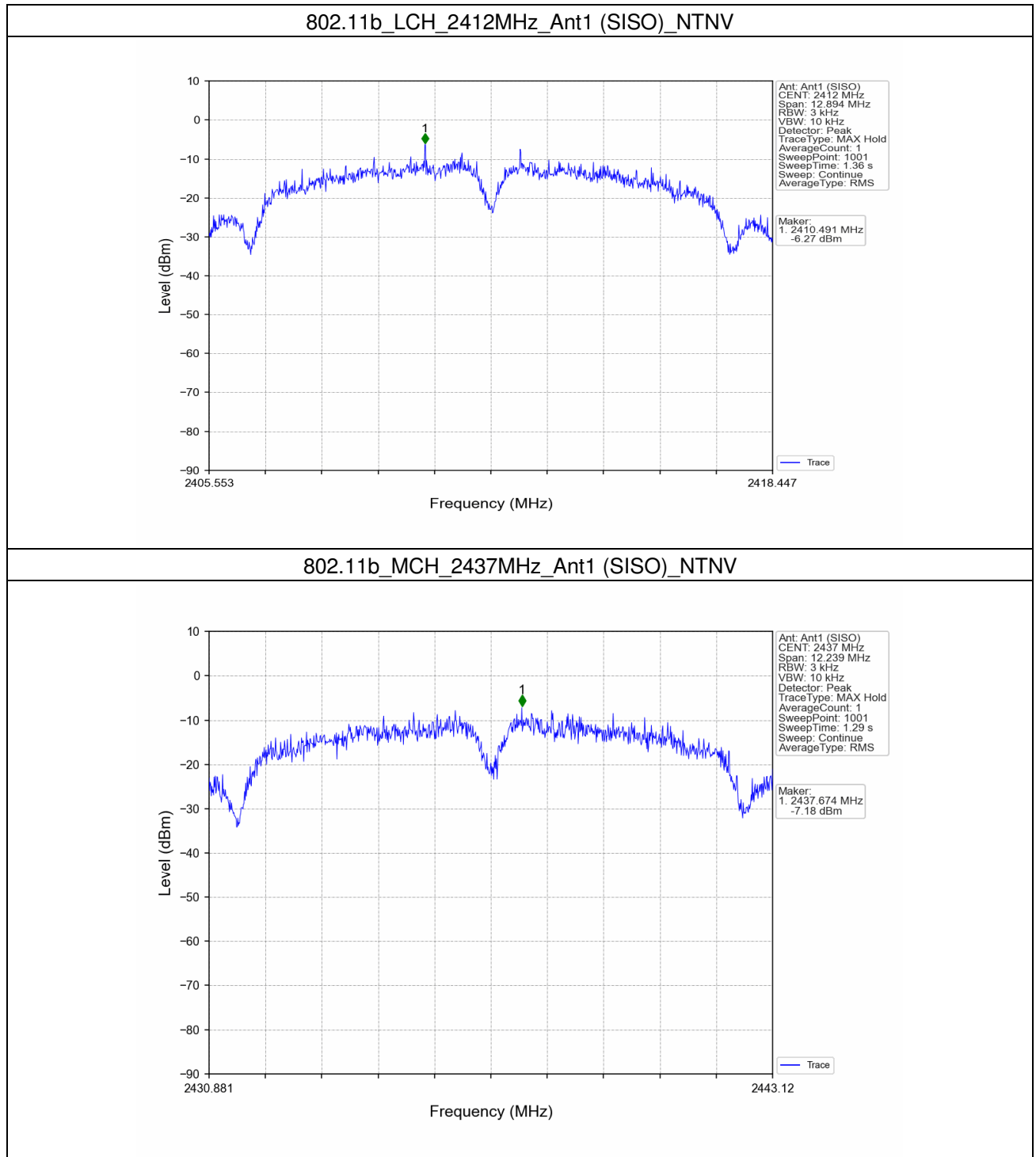
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-6.27	<=8	Pass
		2437	-7.18	<=8	Pass
		2462	-7.49	<=8	Pass
802.11g	SISO	2412	-13.33	<=8	Pass
		2437	-11.41	<=8	Pass
		2462	-14.40	<=8	Pass
802.11n (HT20)	SISO	2412	-11.96	<=8	Pass
		2437	-9.62	<=8	Pass
		2462	-13.96	<=8	Pass
802.11n (HT40)	SISO	2422	-12.37	<=8	Pass
		2437	-10.53	<=8	Pass
		2452	-13.23	<=8	Pass

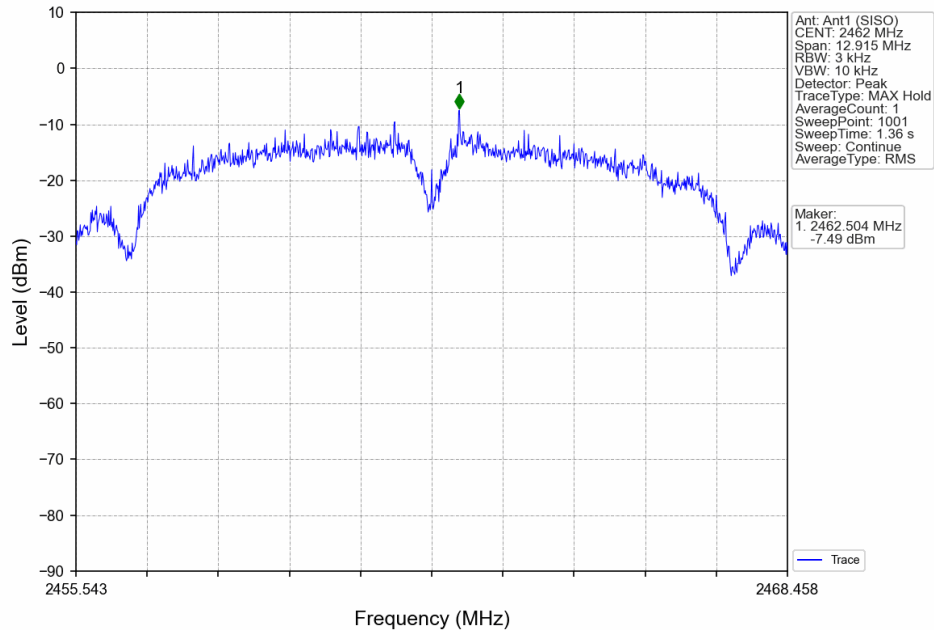
Note1: Antenna Gain: Ant1: -3.00dBi;



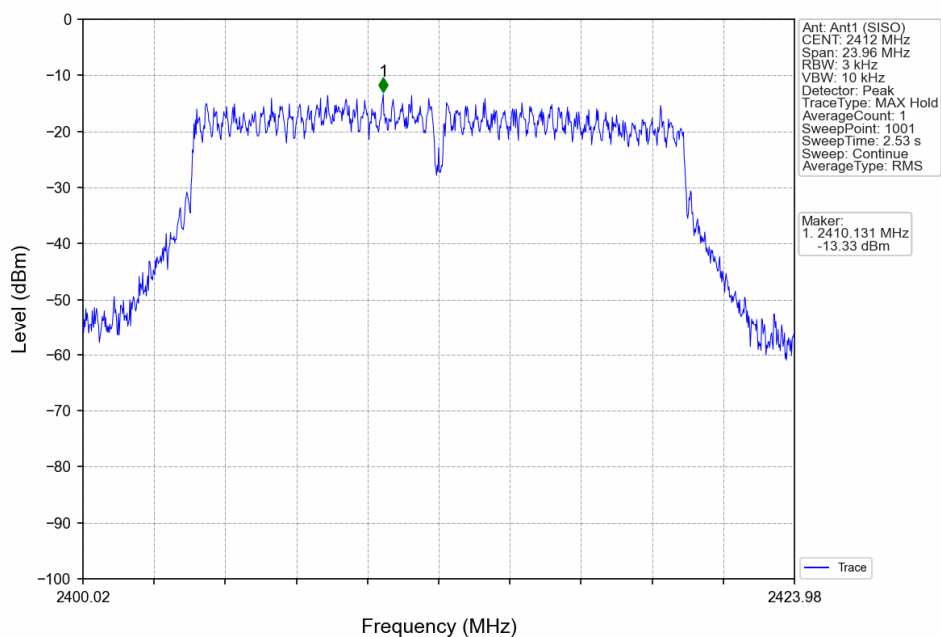
4.1.2 Test Graph



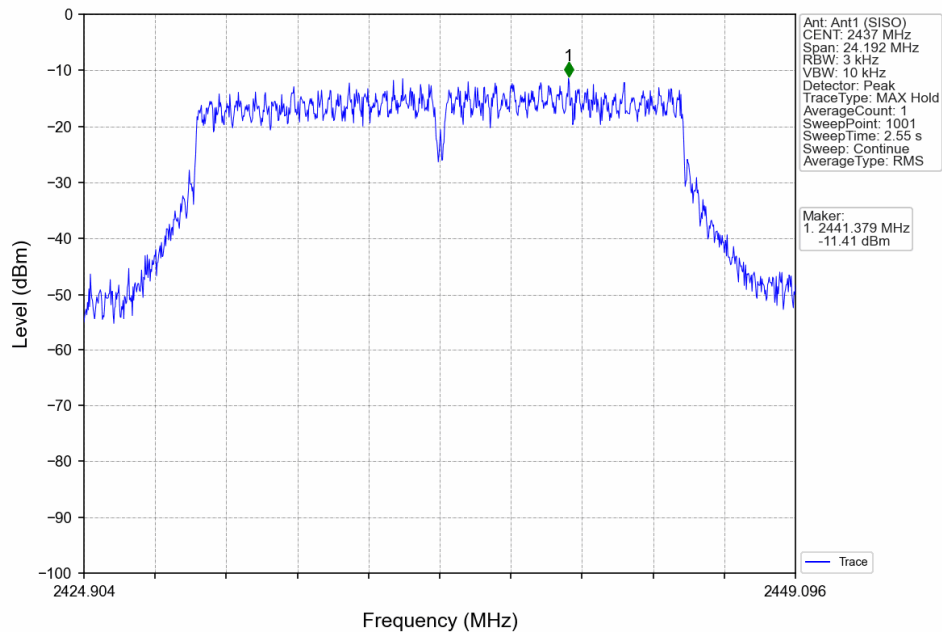
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



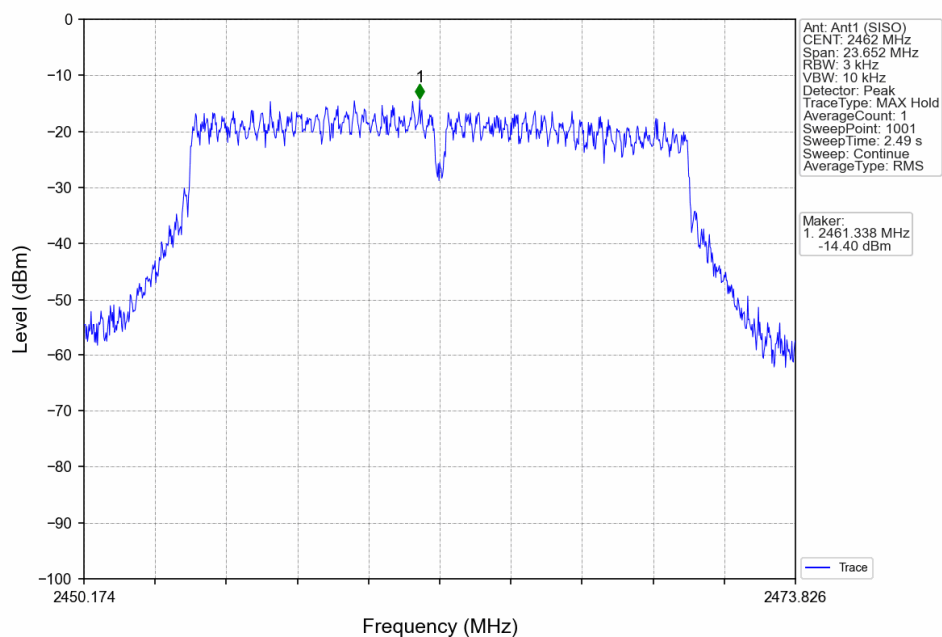
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

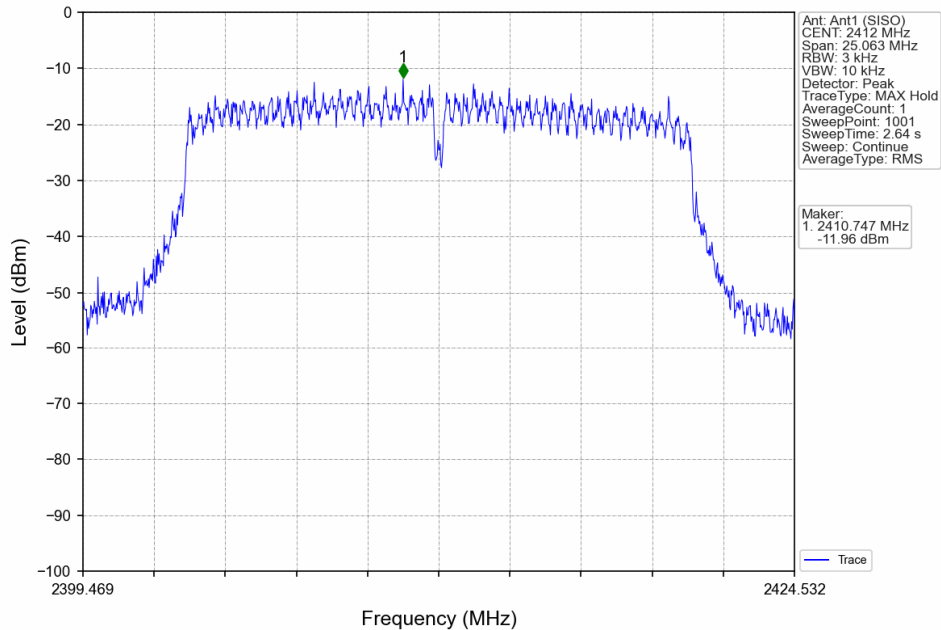


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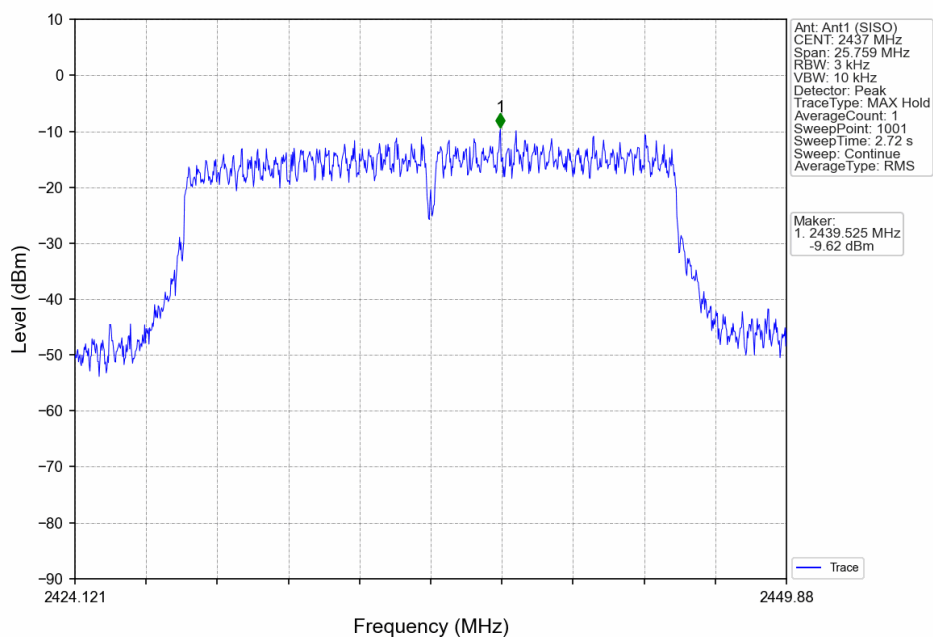
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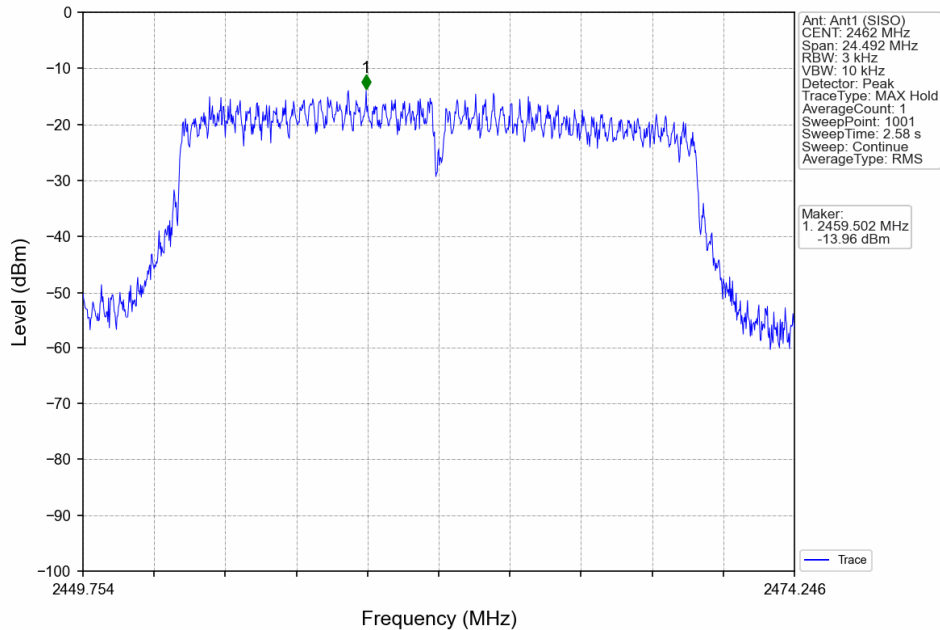
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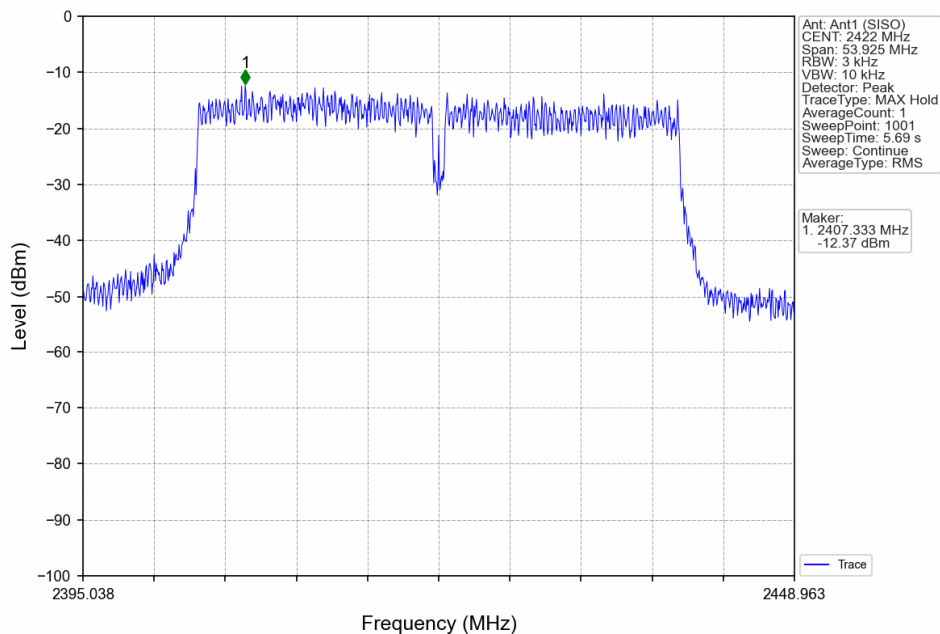
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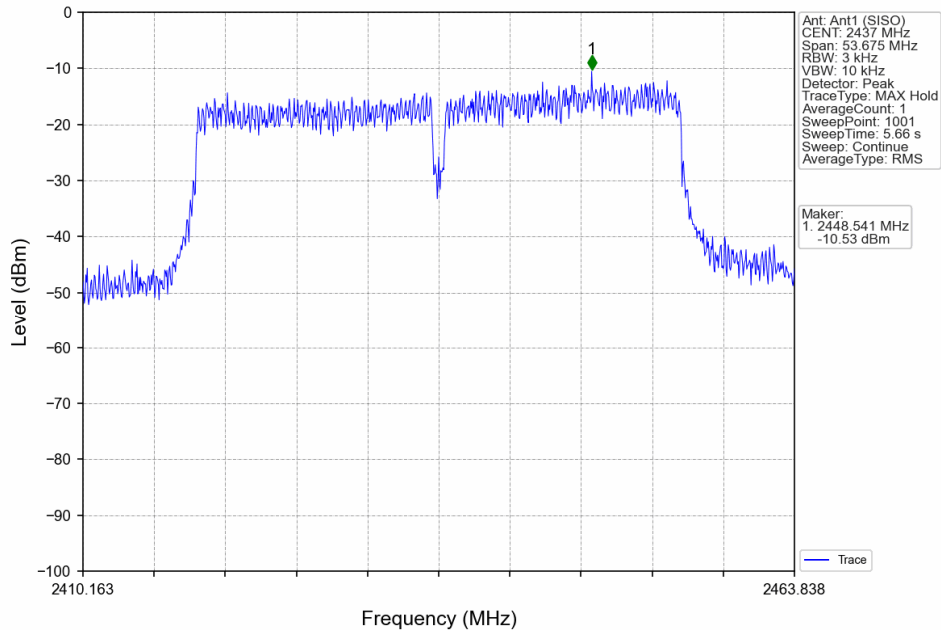
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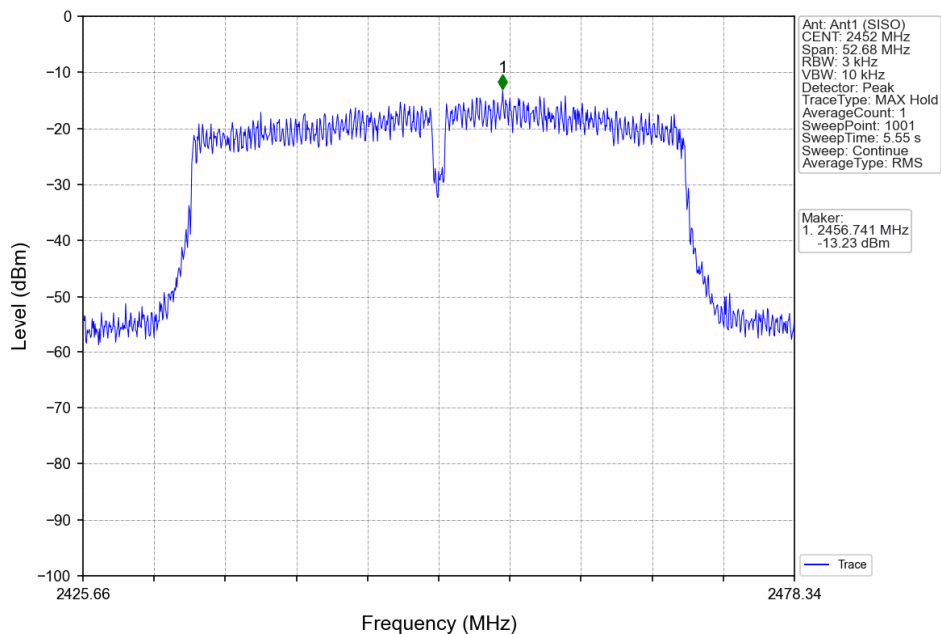
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	4.96
		2437	1	6.97
		2462	1	3.71
802.11g	SISO	2412	1	1.59
		2437	1	3.99
		2462	1	0.43
802.11n (HT20)	SISO	2412	1	1.60
		2437	1	4.16
		2462	1	0.34
802.11n (HT40)	SISO	2422	1	2.13
		2437	1	2.89
		2452	1	1.11

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.



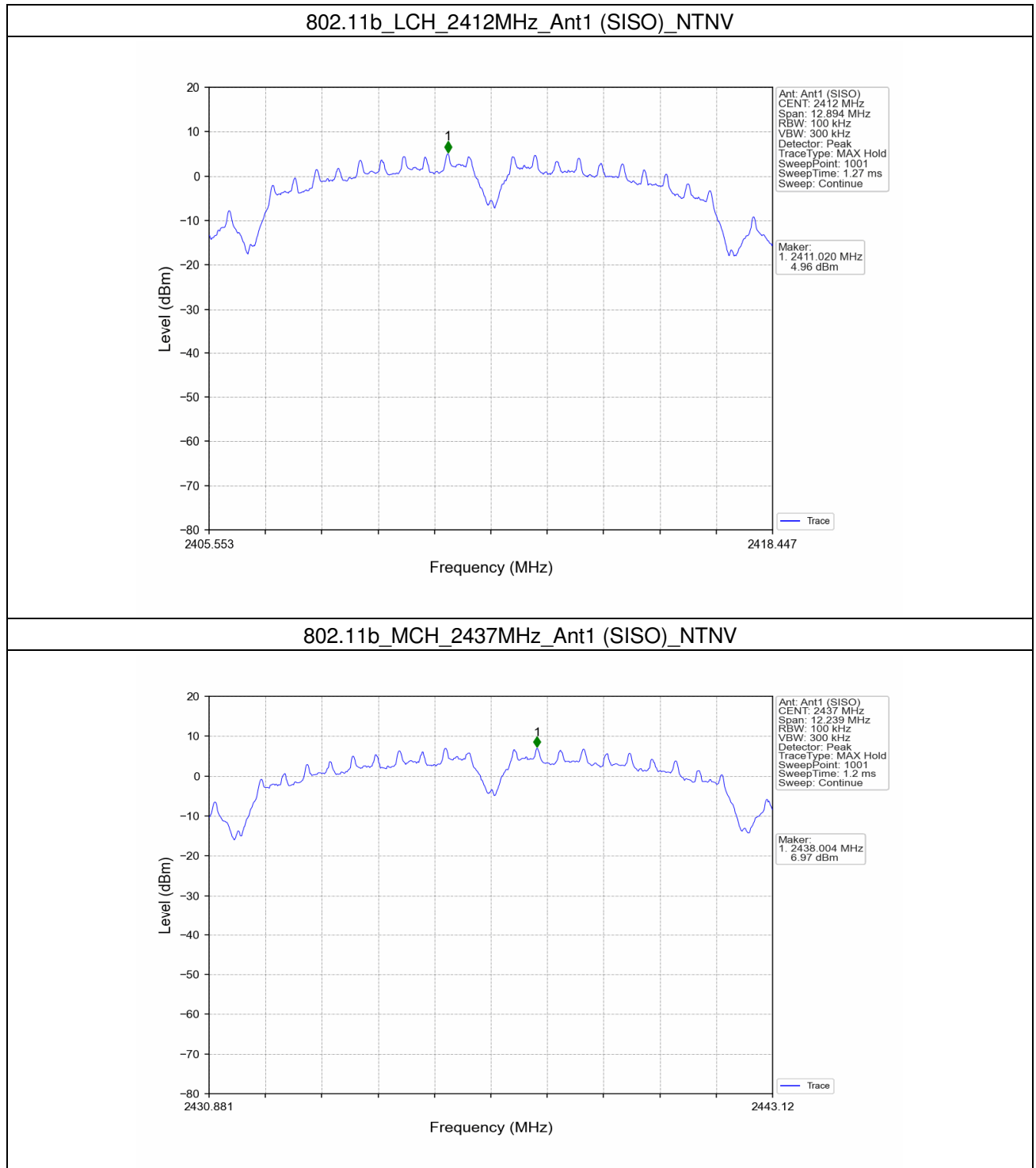
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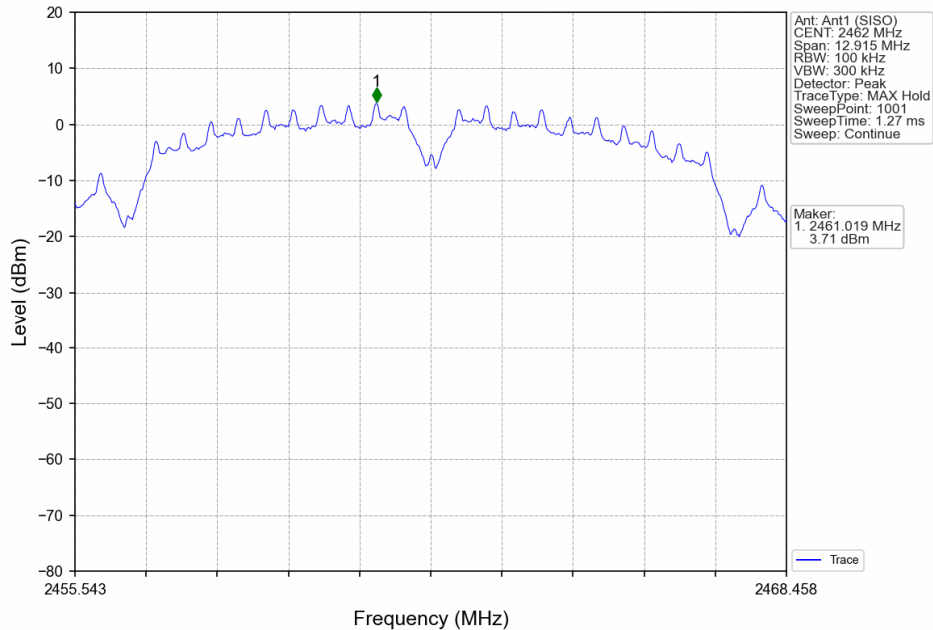
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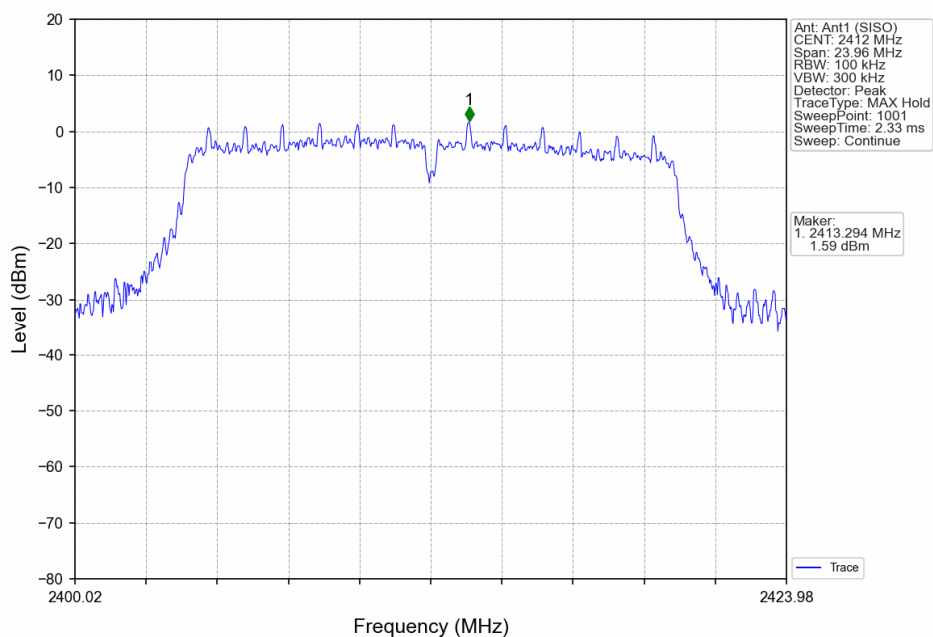
5.1.2 Test Graph



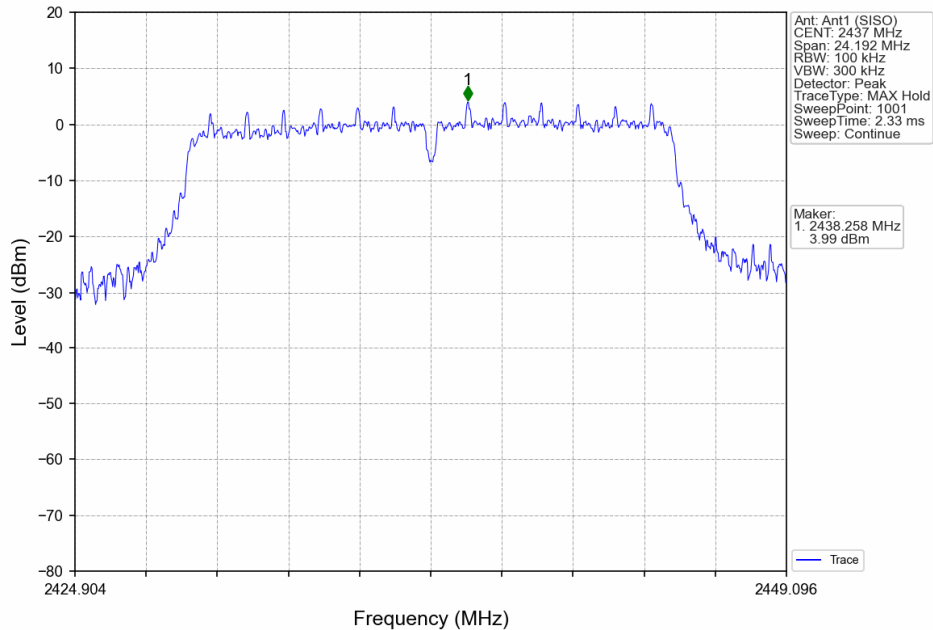
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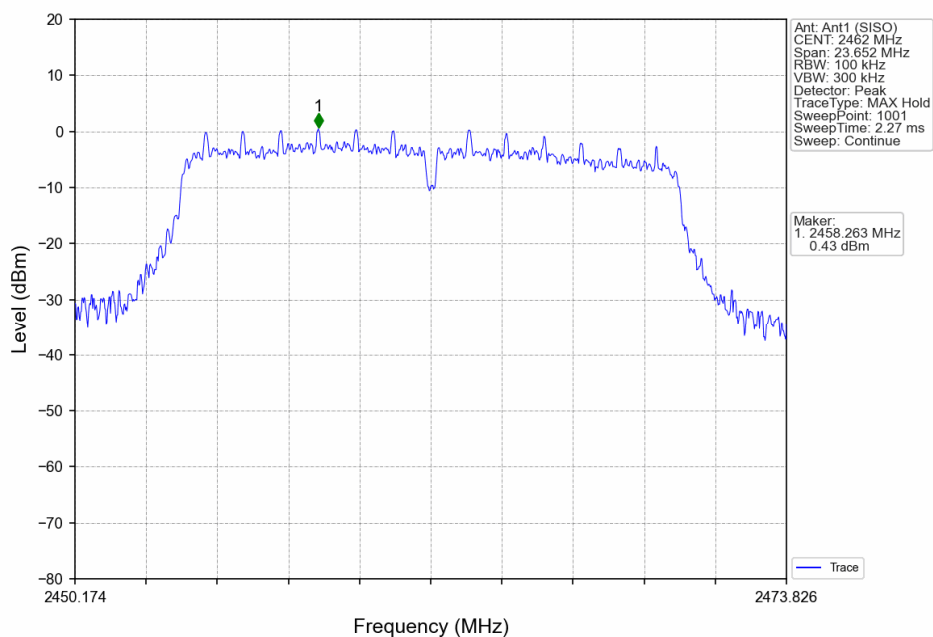
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



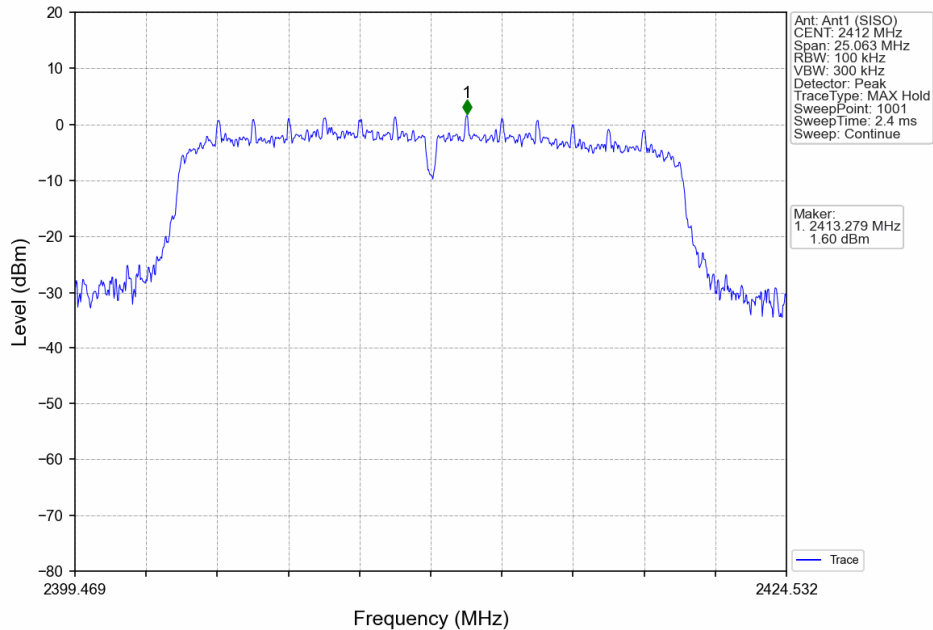
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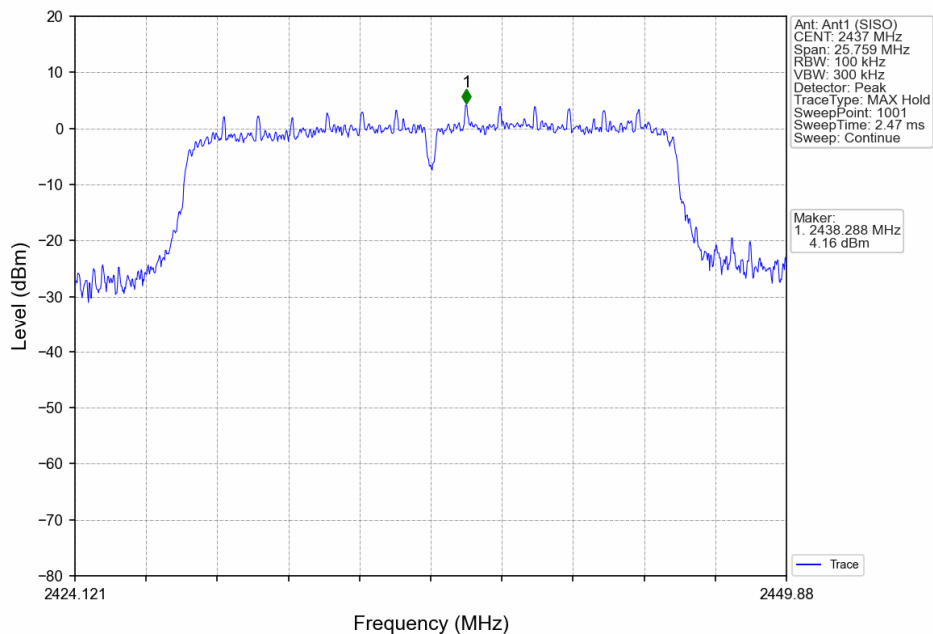
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



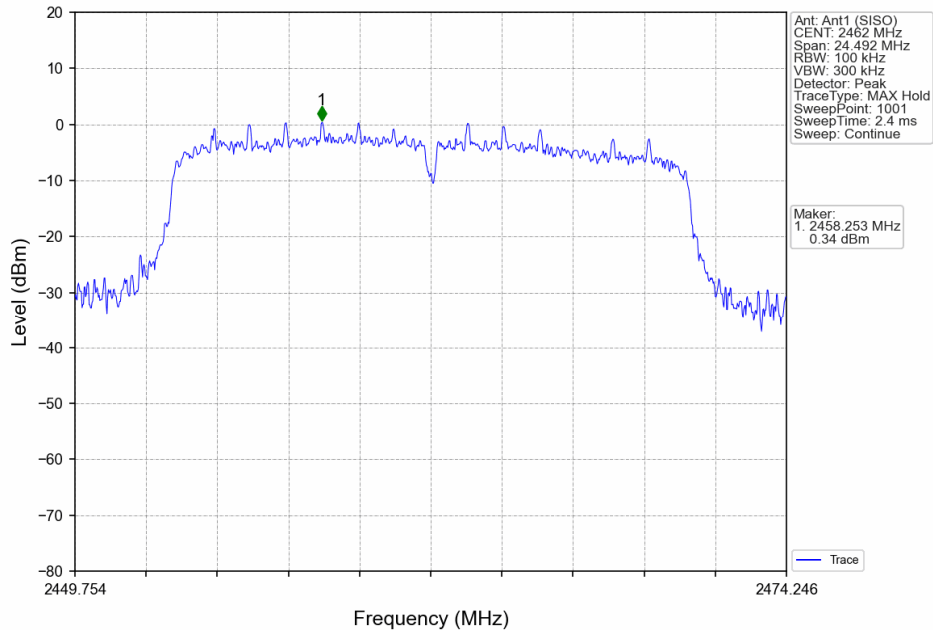
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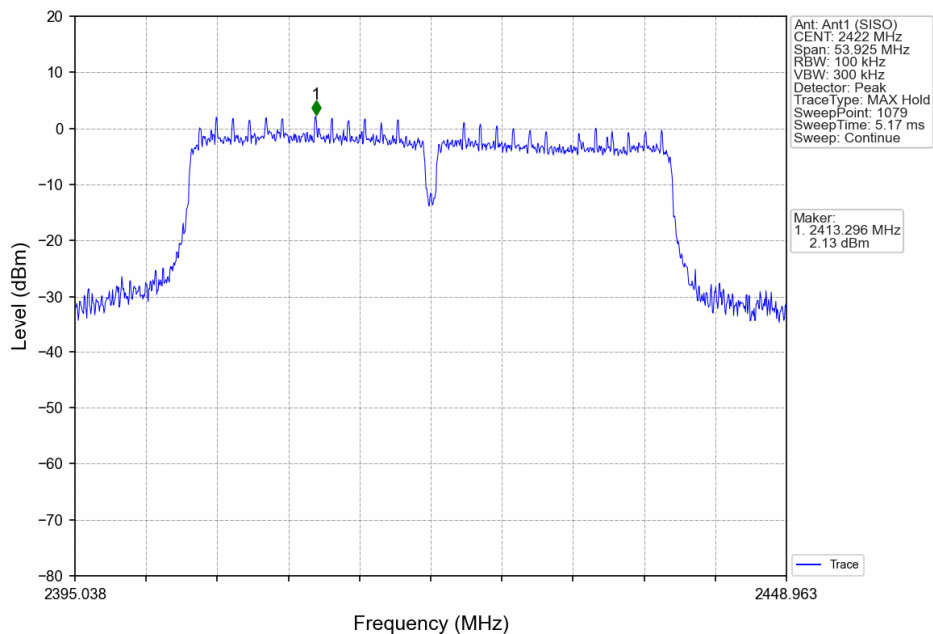
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Shenzhen Branch Testing Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



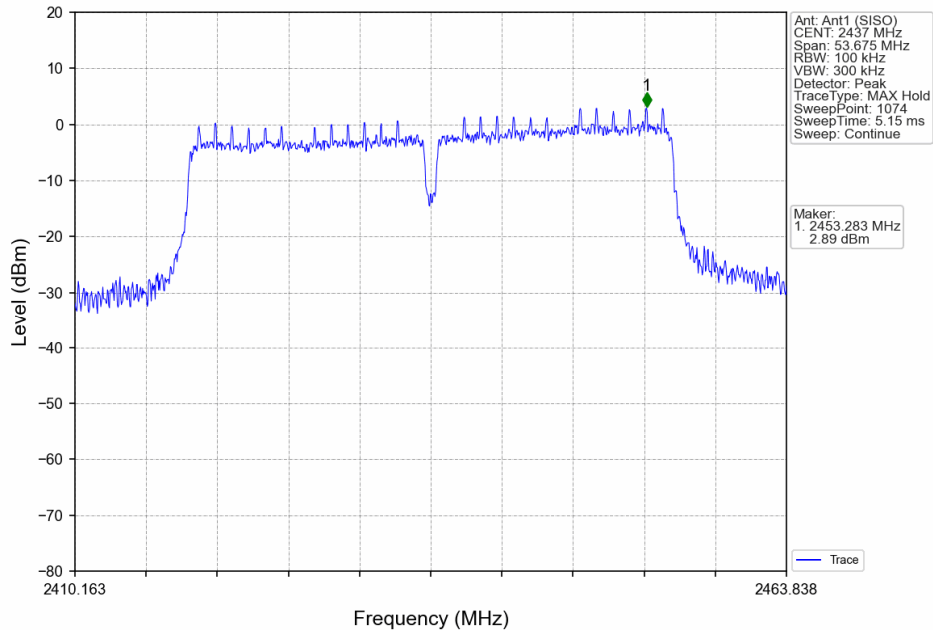
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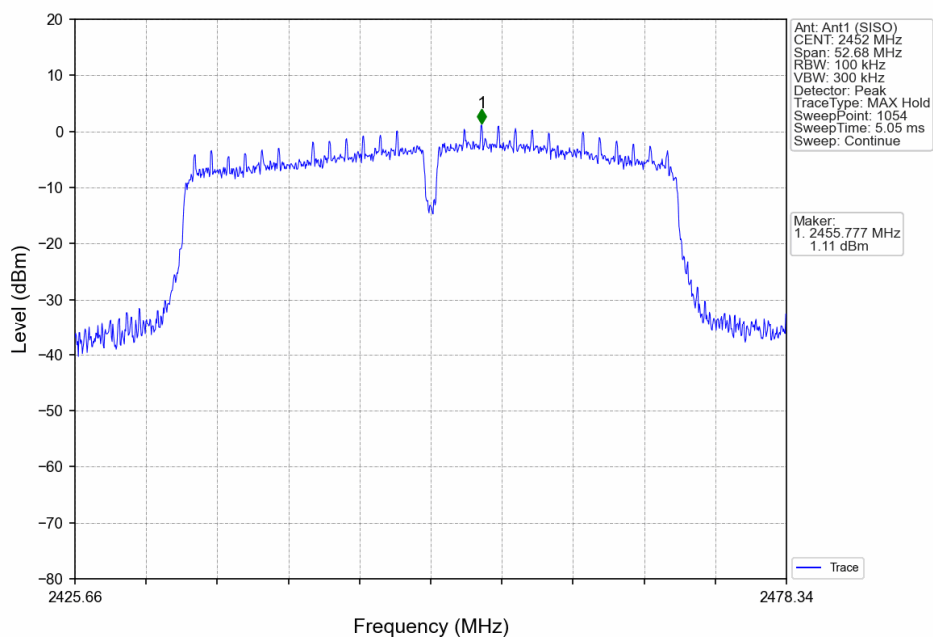
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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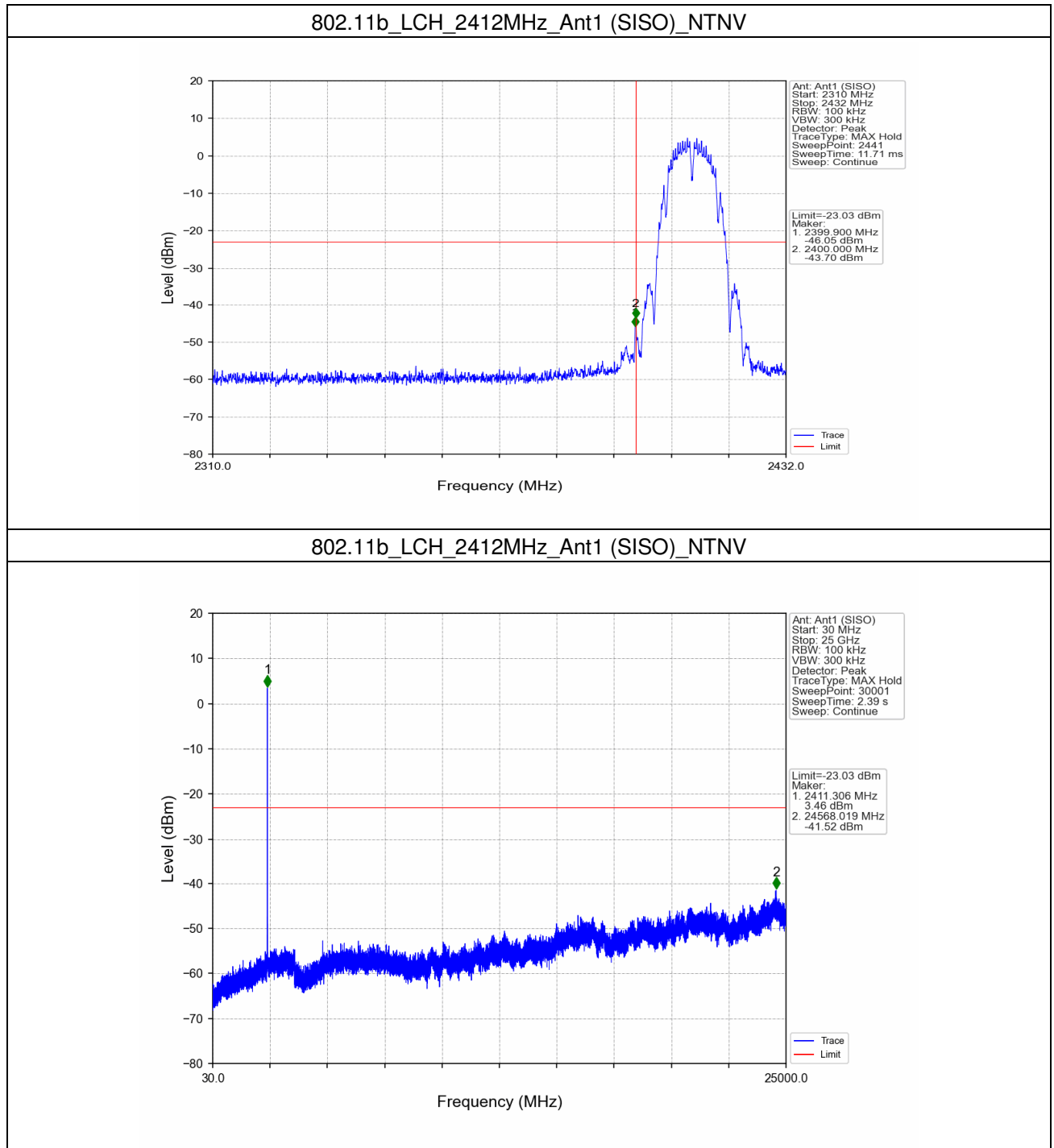
5.2 CSE

5.2.1 Test Result

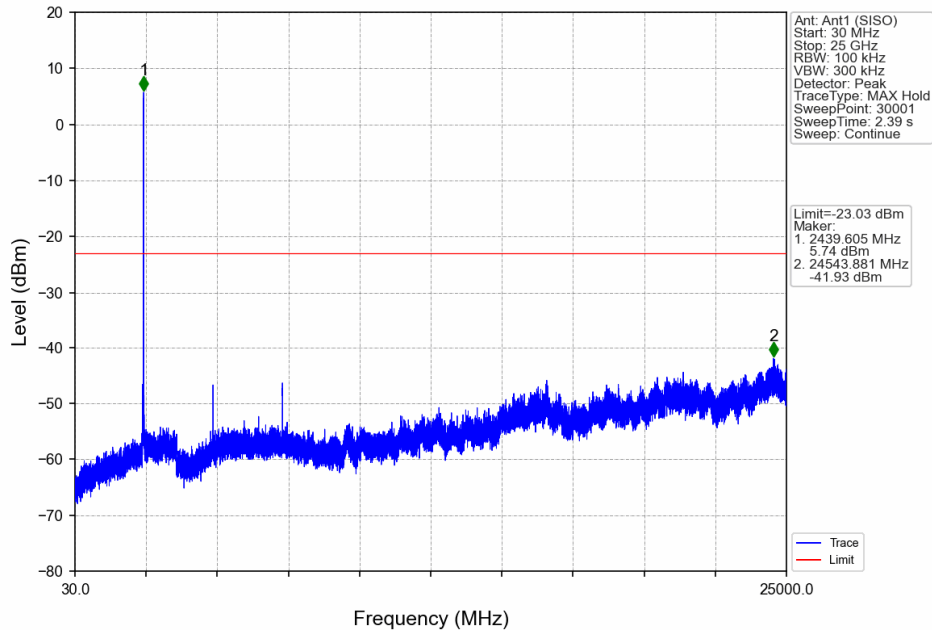
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.97	-23.03	Pass
		2437	1	6.97	-23.03	Pass
		2462	1	6.97	-23.03	Pass
802.11g	SISO	2412	1	3.99	-26.01	Pass
		2437	1	3.99	-26.01	Pass
		2462	1	3.99	-26.01	Pass
802.11n (HT20)	SISO	2412	1	4.16	-25.84	Pass
		2437	1	4.16	-25.84	Pass
		2462	1	4.16	-25.84	Pass
802.11n (HT40)	SISO	2422	1	2.89	-27.11	Pass
		2437	1	2.89	-27.11	Pass
		2452	1	2.89	-27.11	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.

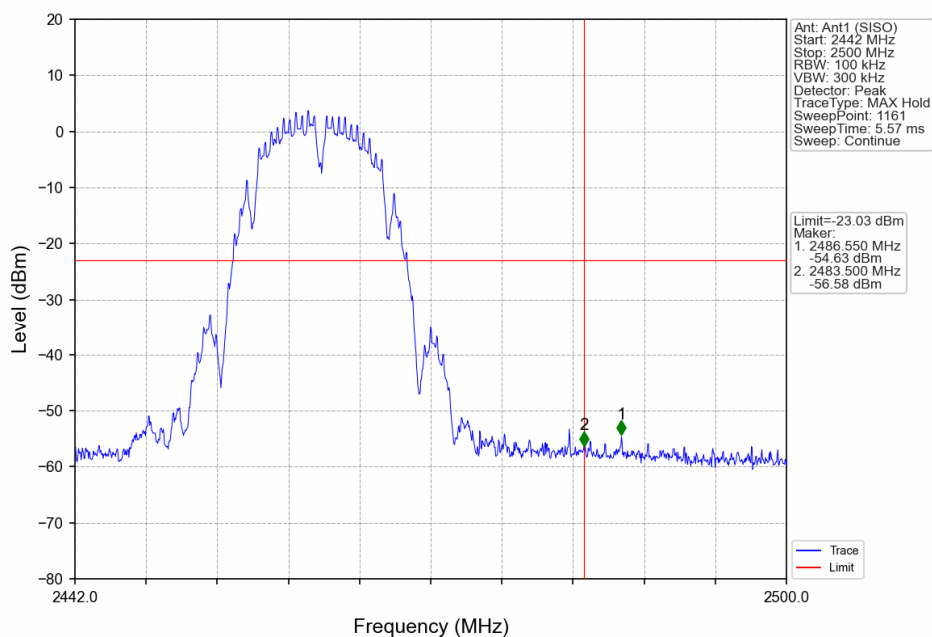
5.2.2 Test Graph



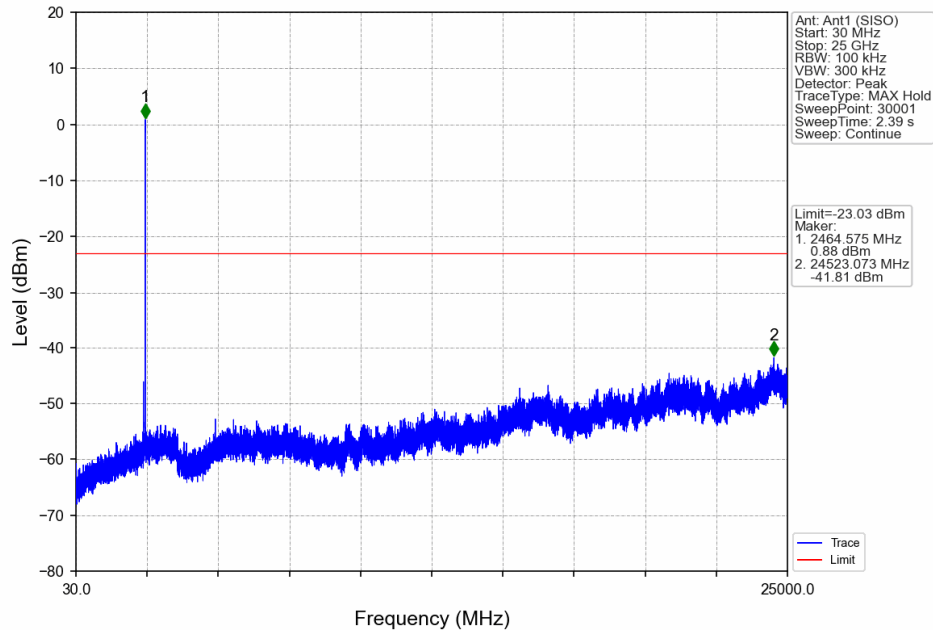
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



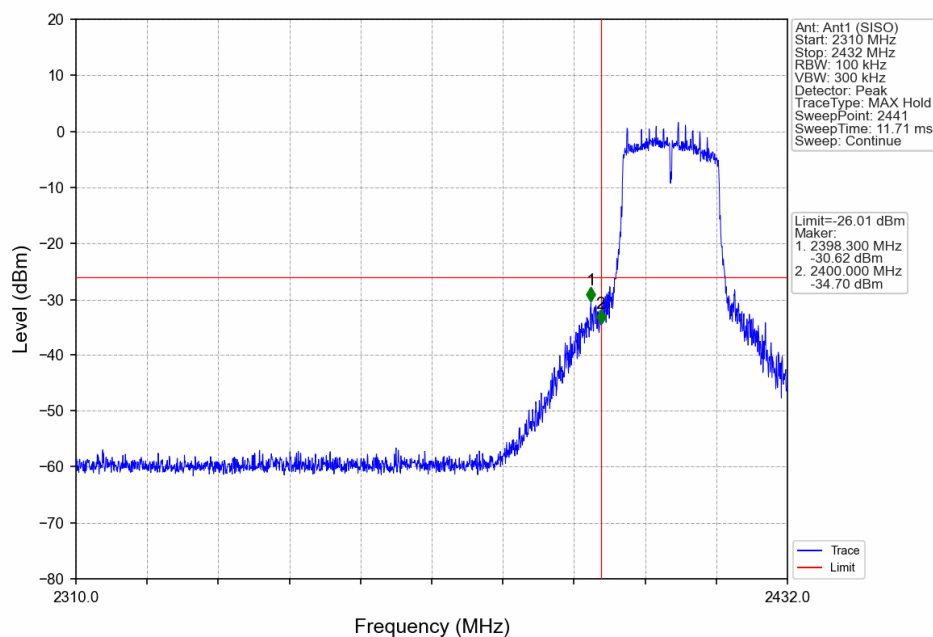
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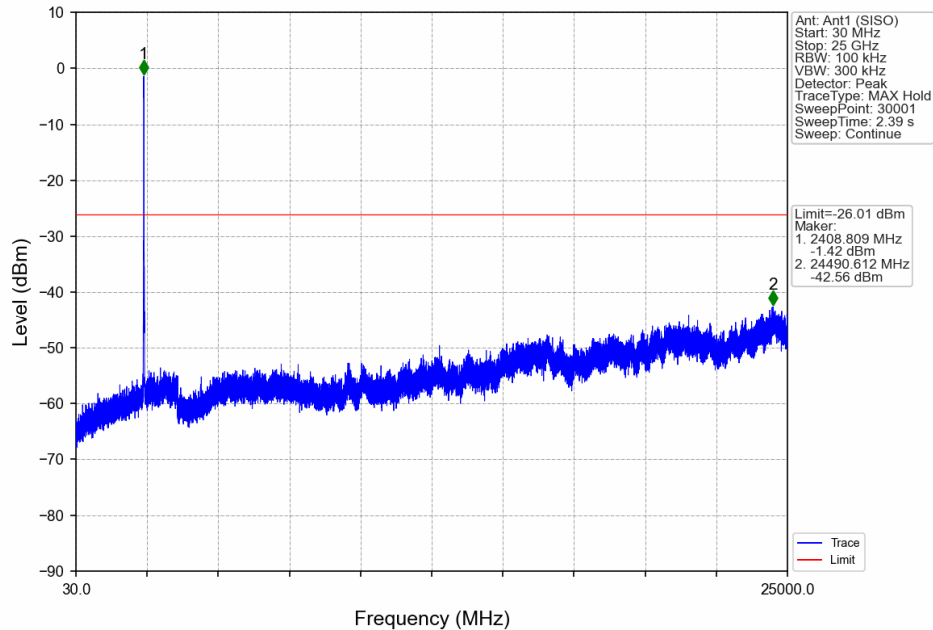
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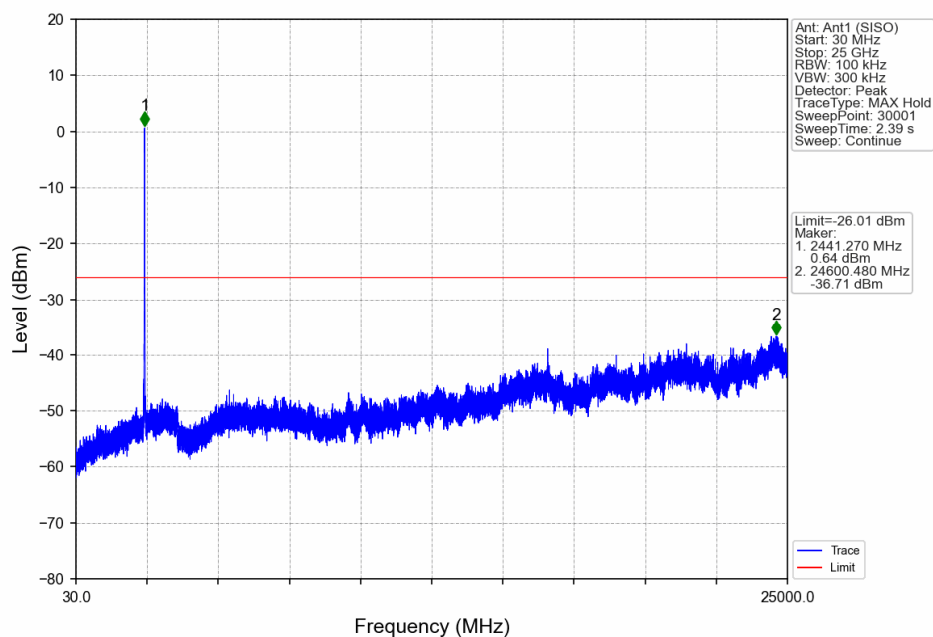
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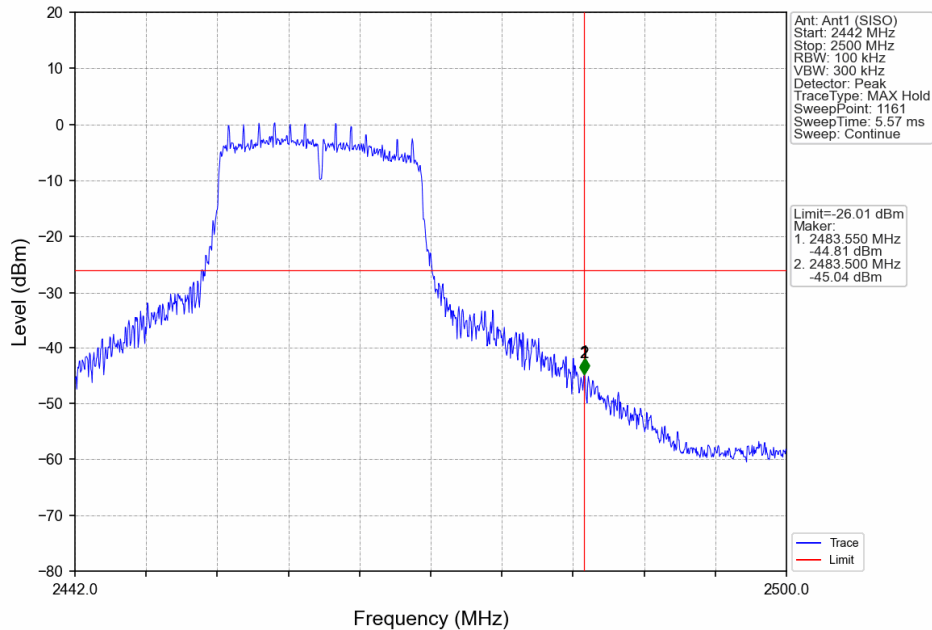
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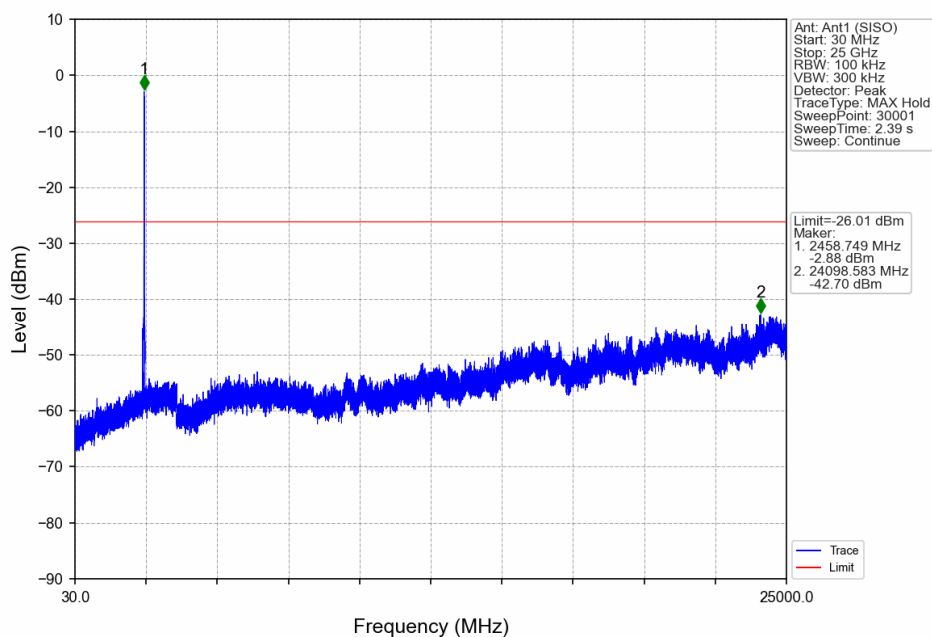
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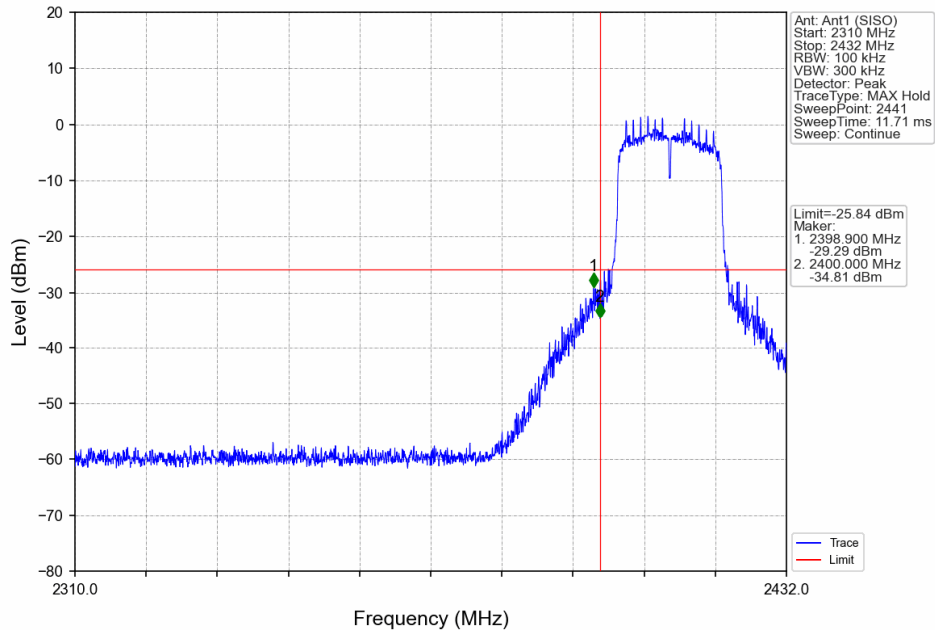
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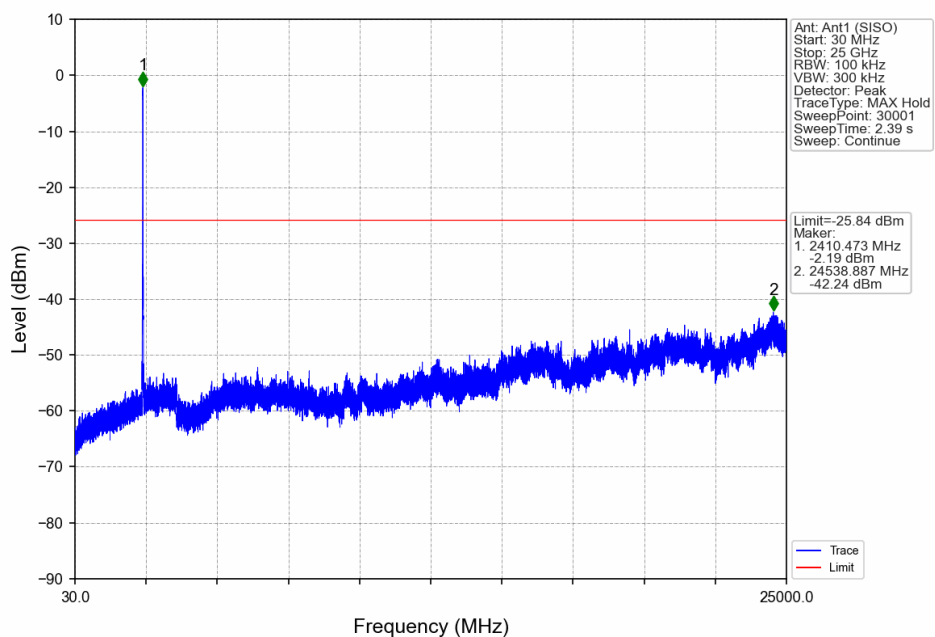
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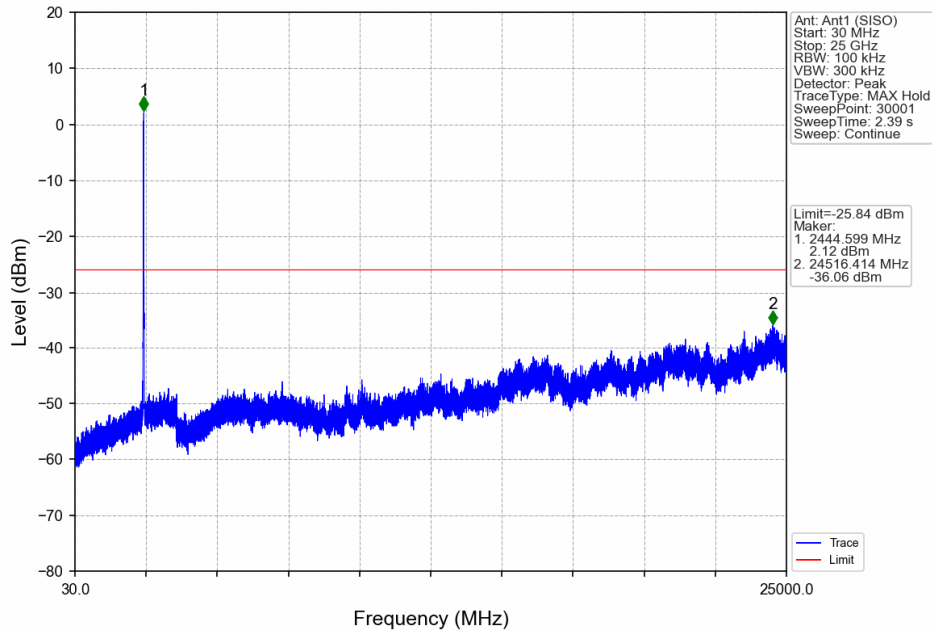
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



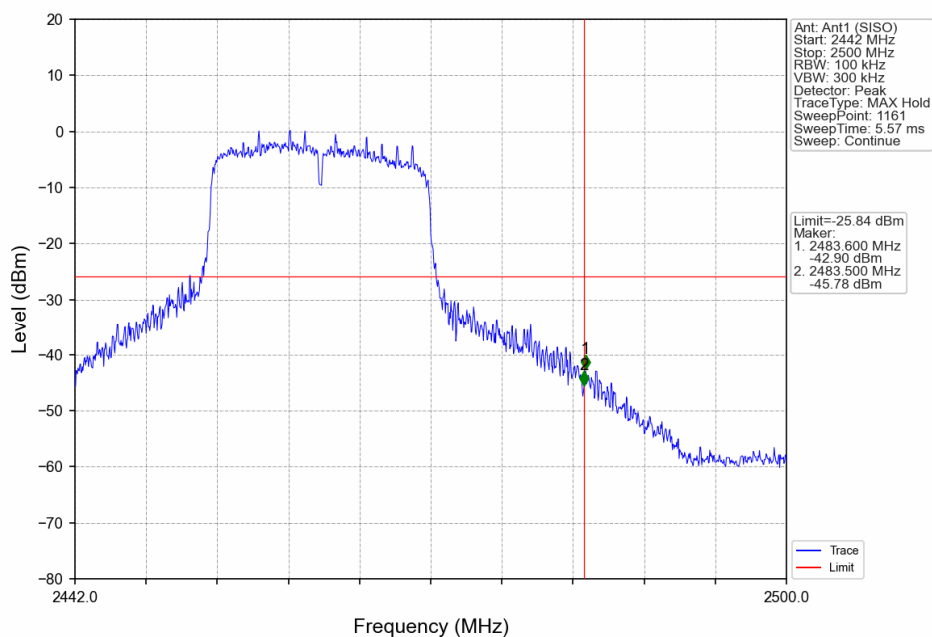
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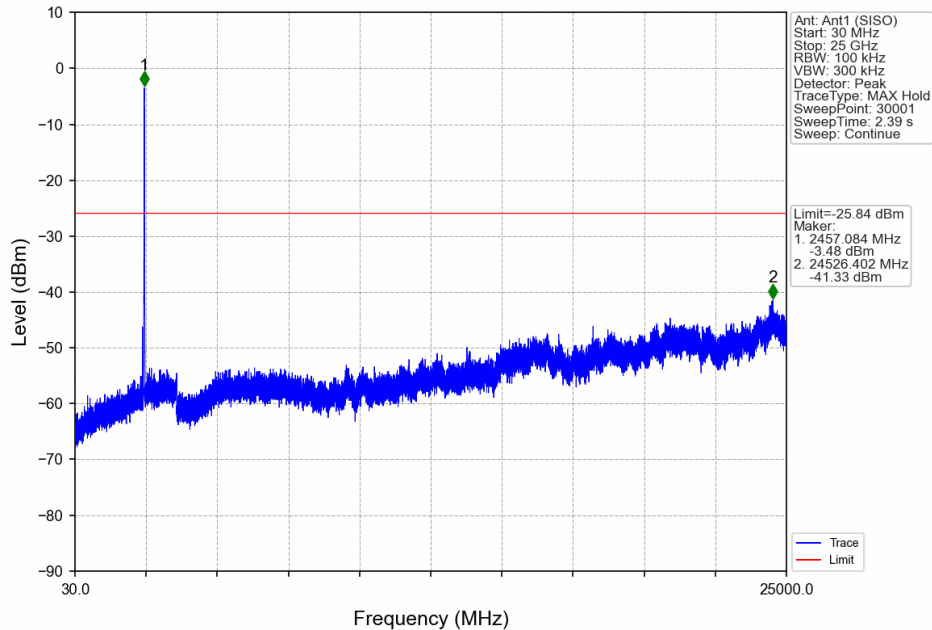
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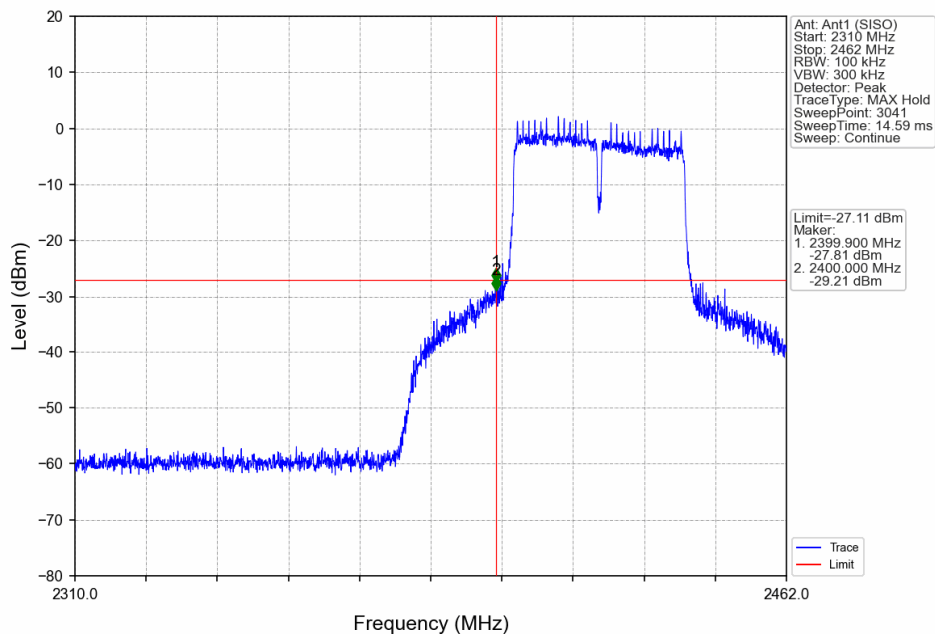
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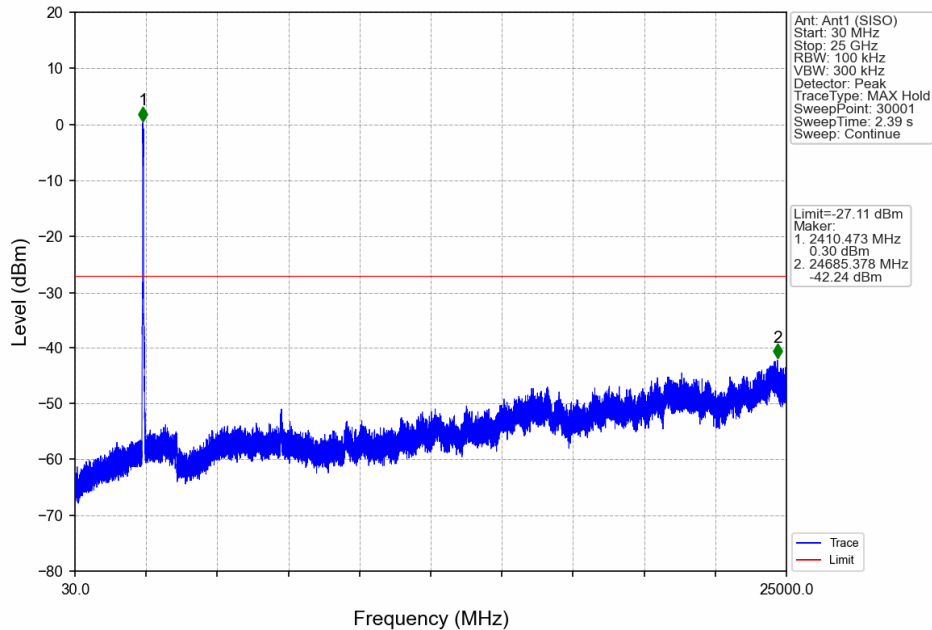
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



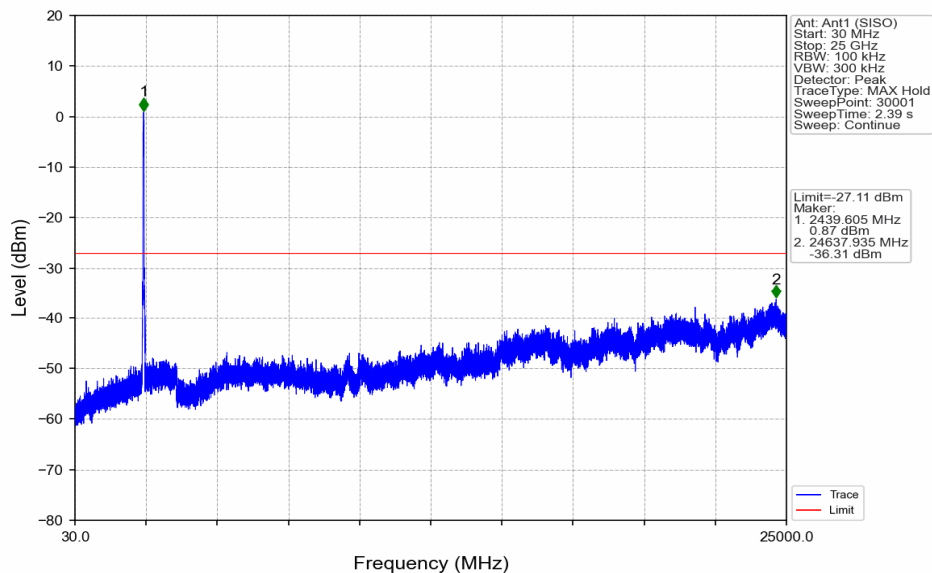
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



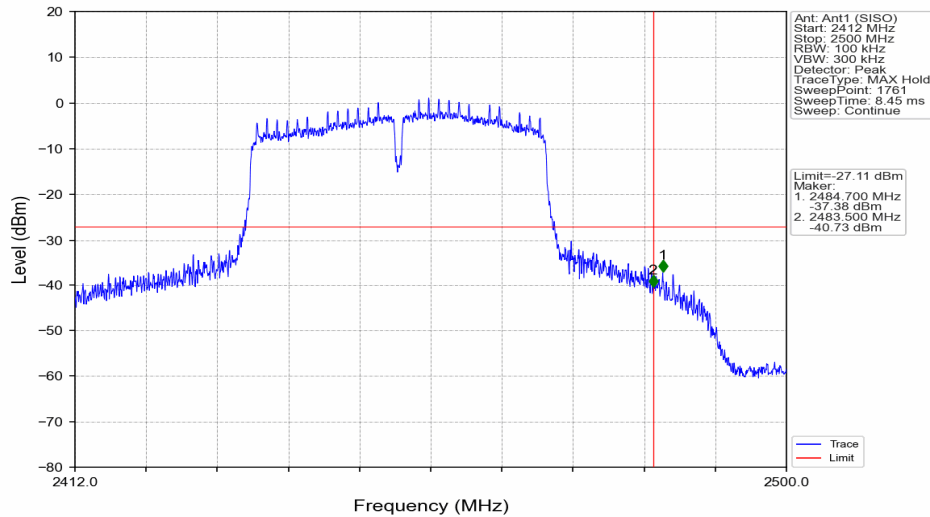
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



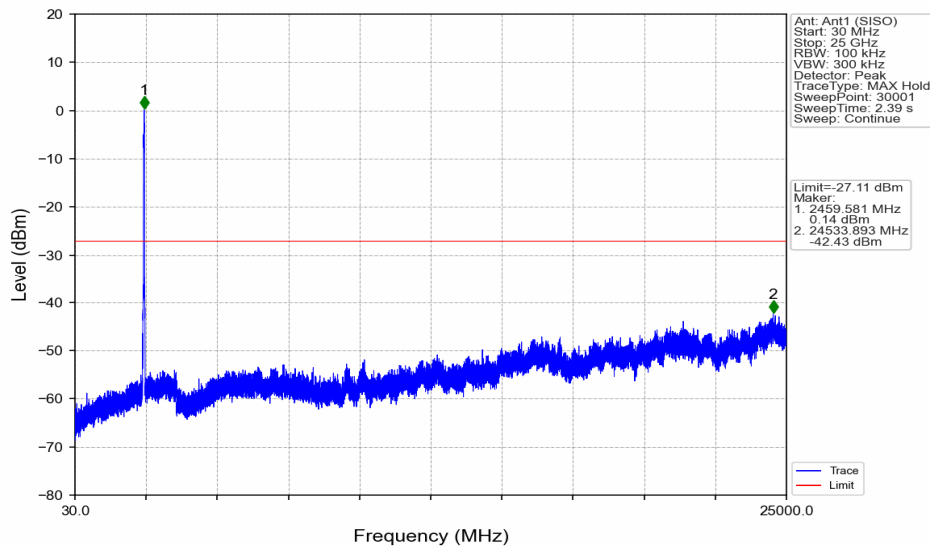
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -