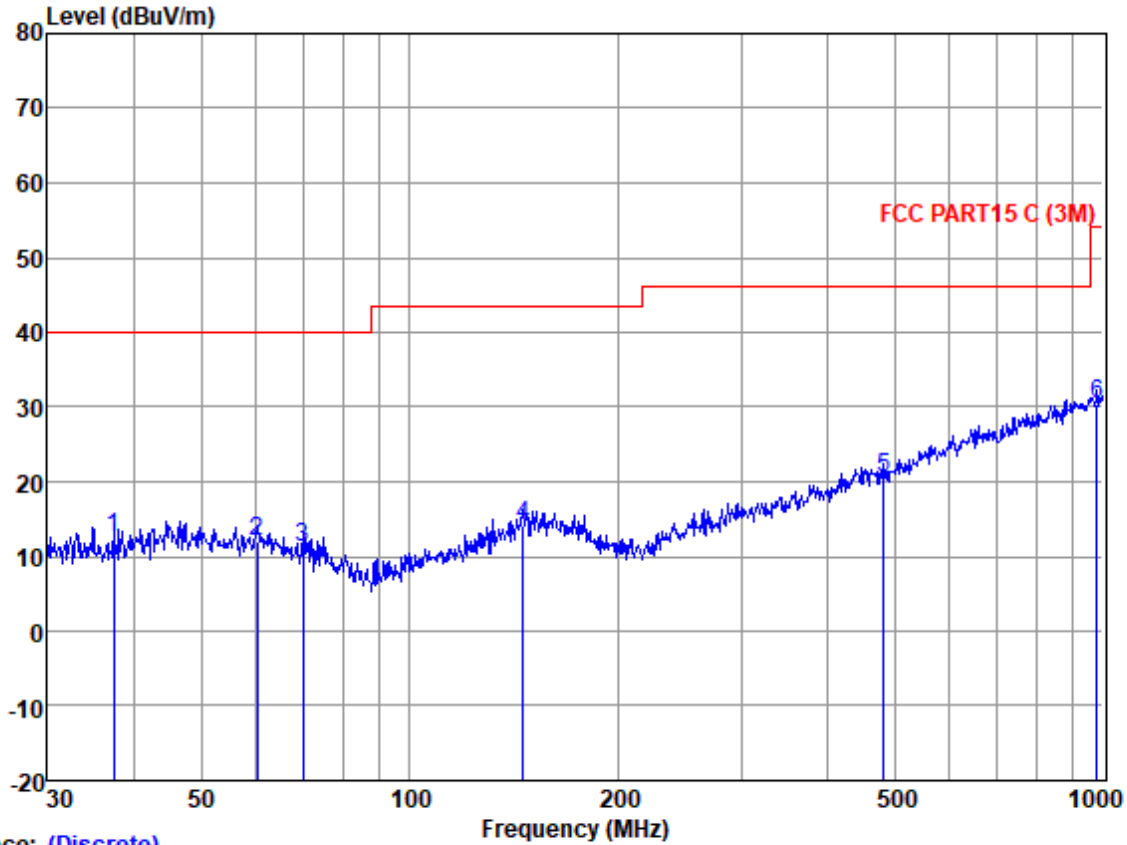


Test Mode: 00; Polarity: Horizontal 802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

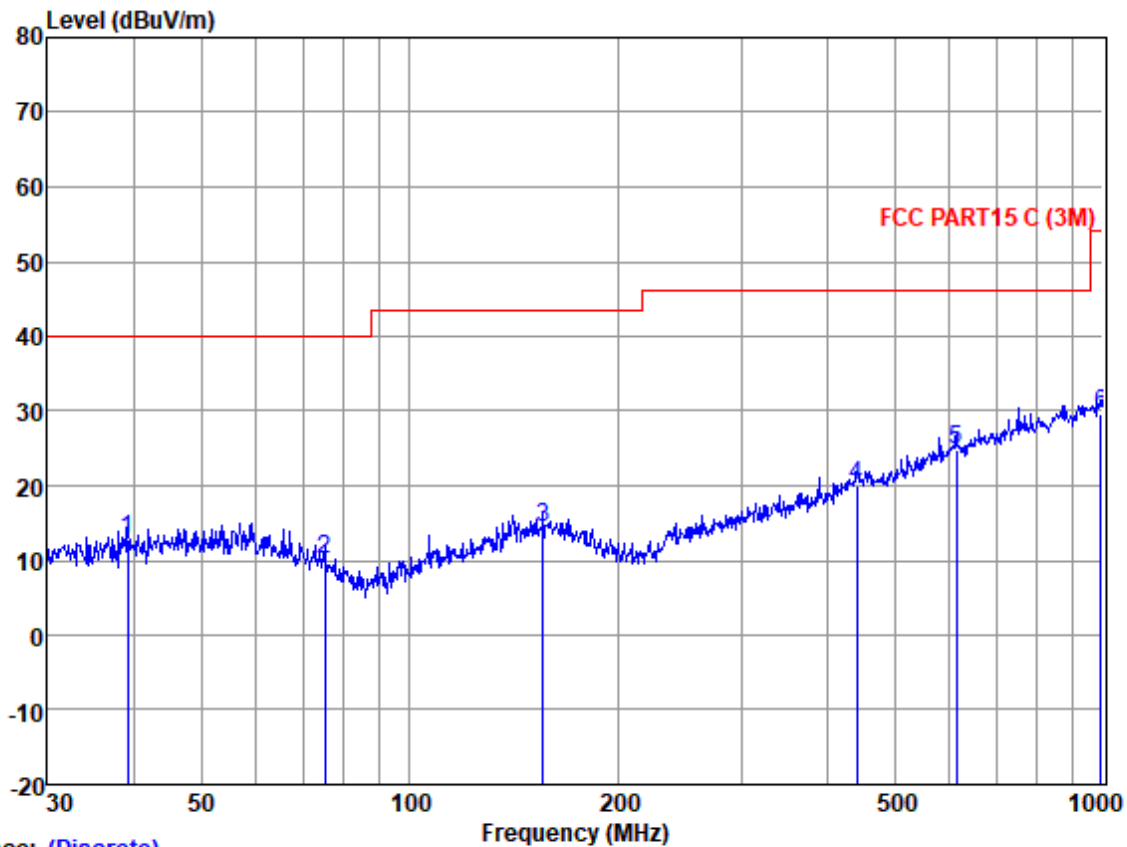
Site : SGS
 Condition : FCC PART15 C (3M)
 Job :
 Model :
 Power :
 Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	37.42	25.30	13.22	1.08	27.18	12.42	40.00	-27.58	HORIZONTAL	QP
2	60.28	24.60	13.37	1.26	27.16	12.07	40.00	-27.93	HORIZONTAL	QP
3	70.09	25.07	11.90	1.41	27.13	11.25	40.00	-28.75	HORIZONTAL	QP
4	145.35	25.16	13.68	2.18	26.86	14.16	43.50	-29.34	HORIZONTAL	QP
5	482.22	26.40	17.63	4.34	27.92	20.45	46.00	-25.55	HORIZONTAL	QP
6	979.18	26.64	24.10	7.31	27.69	30.36	54.00	-23.64	HORIZONTAL	QP



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Test Mode: 00; Polarity: Vertical 802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

Site : SGS
 Condition : FCC PART15 C (3M)
 Job :
 Model :
 Power :
 Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	39.16	25.44	13.43	1.09	27.18	12.78	40.00	-27.22	VERTICAL	QP
2	75.45	25.33	10.44	1.45	27.11	10.11	40.00	-29.89	VERTICAL	QP
3	155.36	25.19	13.72	2.30	26.81	14.40	43.50	-29.10	VERTICAL	QP
4	441.74	26.28	17.07	4.16	27.59	19.92	46.00	-26.08	VERTICAL	QP
5	614.21	27.56	20.33	5.23	28.20	24.92	46.00	-21.08	VERTICAL	QP
6	993.01	25.64	24.23	7.37	27.67	29.57	54.00	-24.43	VERTICAL	QP



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7.8 Radiated Spurious Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6
 Limit:

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

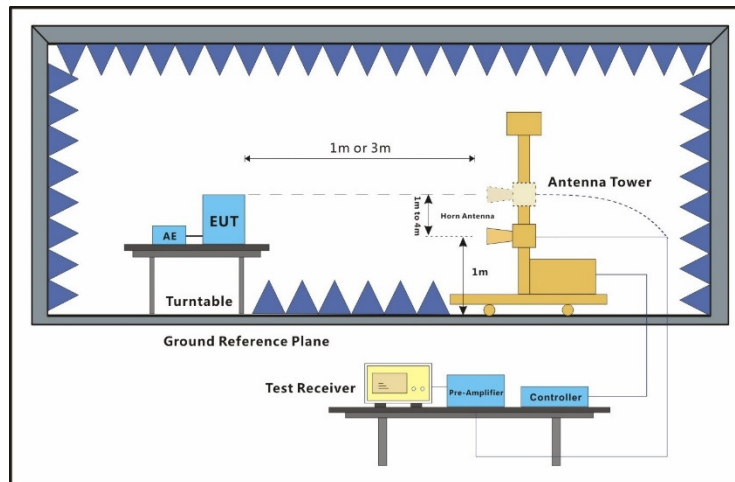
7.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.8 °C Humidity: 53.6 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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.

7.8.3 Test Setup Diagram



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7.8.4 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 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, quasi-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) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

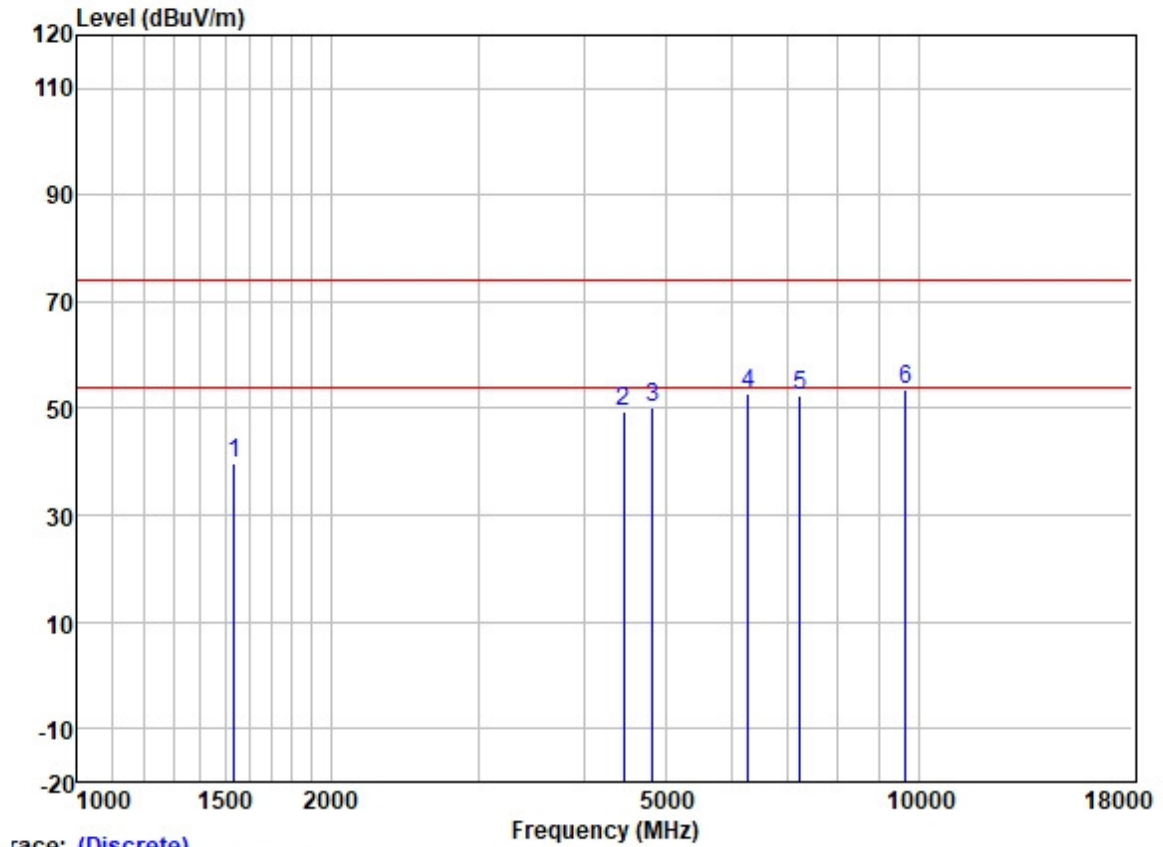
2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) 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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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



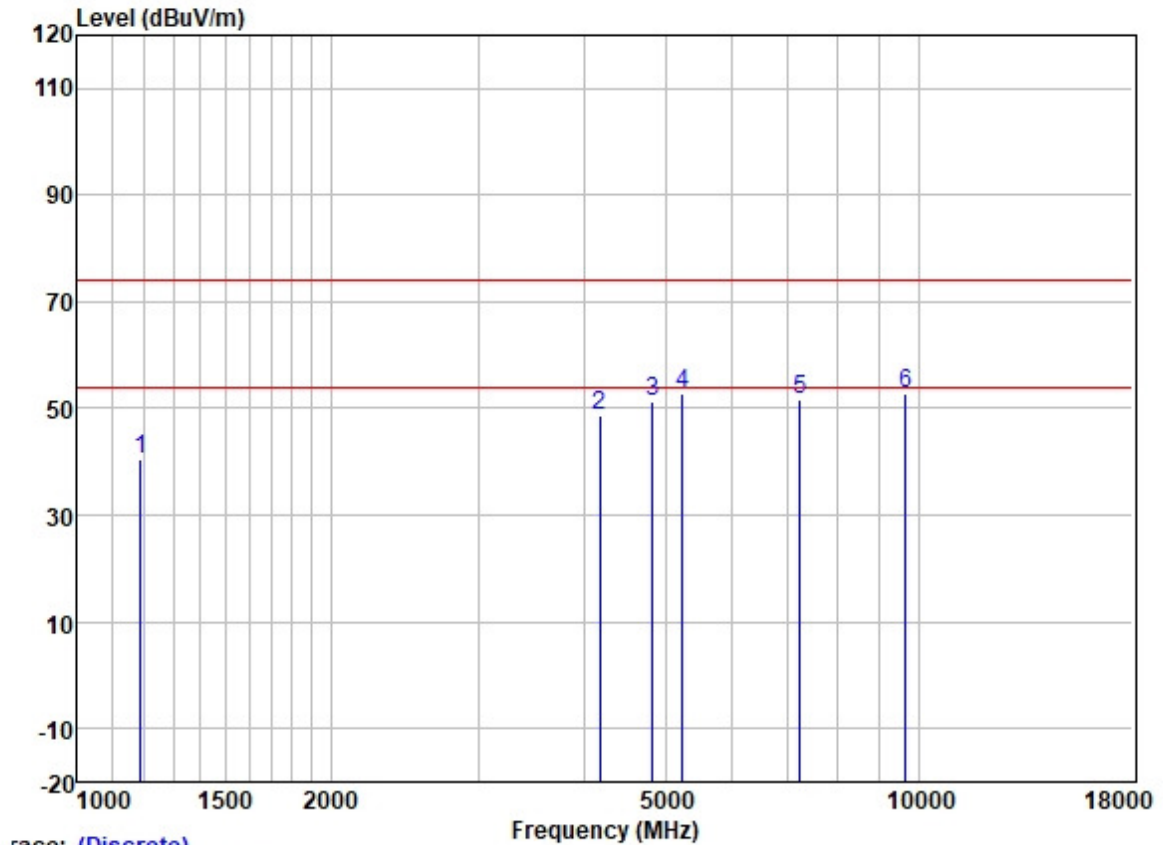
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1538.093	49.43	25.53	2.80	38.03	39.73	74.00	-34.27	HORIZONTAL Peak
2	4463.924	50.44	30.77	4.93	36.81	49.33	74.00	-24.67	HORIZONTAL Peak
3	4824.000	50.33	31.45	5.42	36.83	50.37	74.00	-23.63	HORIZONTAL Peak
4	6272.662	50.28	33.29	6.00	36.95	52.62	74.00	-21.38	HORIZONTAL Peak
5	7236.000	47.97	35.70	6.03	37.39	52.31	74.00	-21.69	HORIZONTAL Peak
6	9648.000	45.41	38.40	7.06	37.42	53.45	74.00	-20.55	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



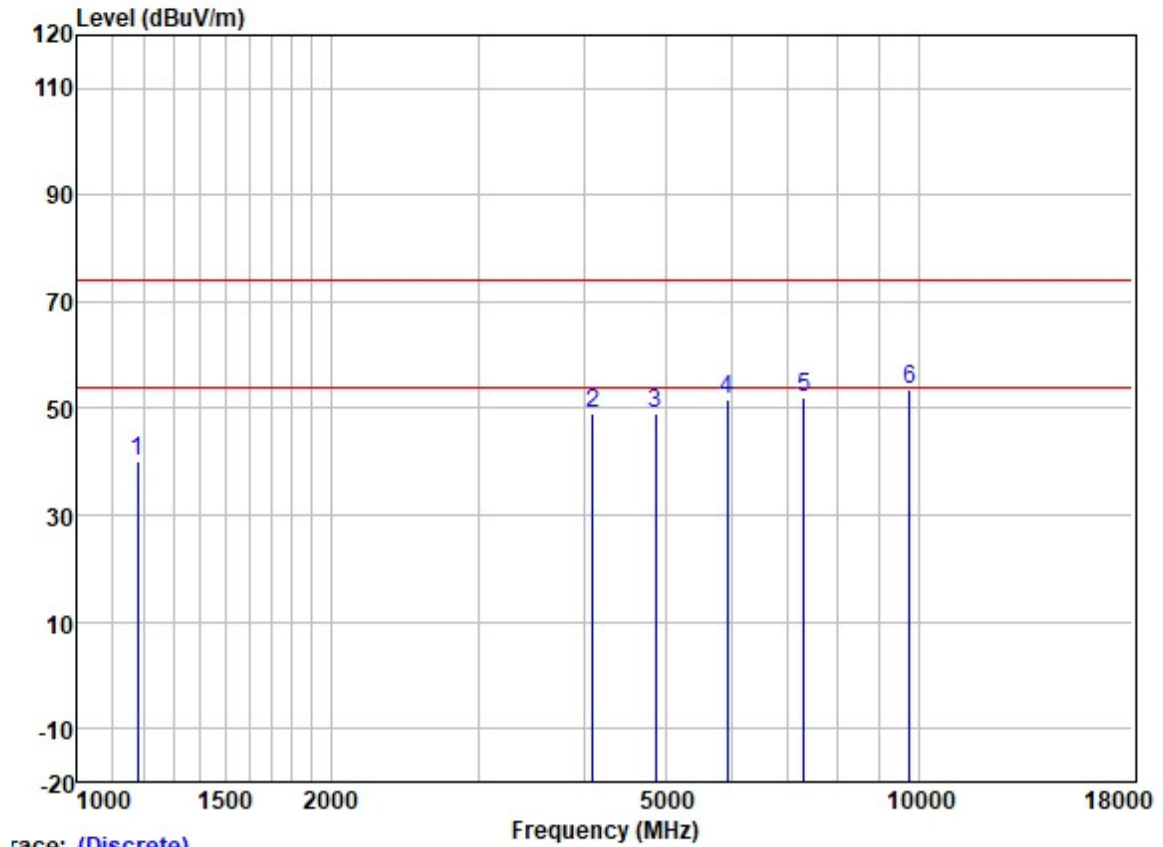
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1189.058	51.81	24.63	2.36	38.39	40.41	74.00	-33.59	VERTICAL	Peak
2	4182.883	50.64	30.12	4.60	36.80	48.56	74.00	-25.44	VERTICAL	Peak
3	4824.000	51.38	31.45	5.42	36.83	51.42	74.00	-22.58	VERTICAL	Peak
4	5236.937	52.15	31.75	5.74	36.87	52.77	74.00	-21.23	VERTICAL	Peak
5	7236.000	47.47	35.70	6.03	37.39	51.81	74.00	-22.19	VERTICAL	Peak
6	9648.000	44.72	38.40	7.06	37.42	52.76	74.00	-21.24	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



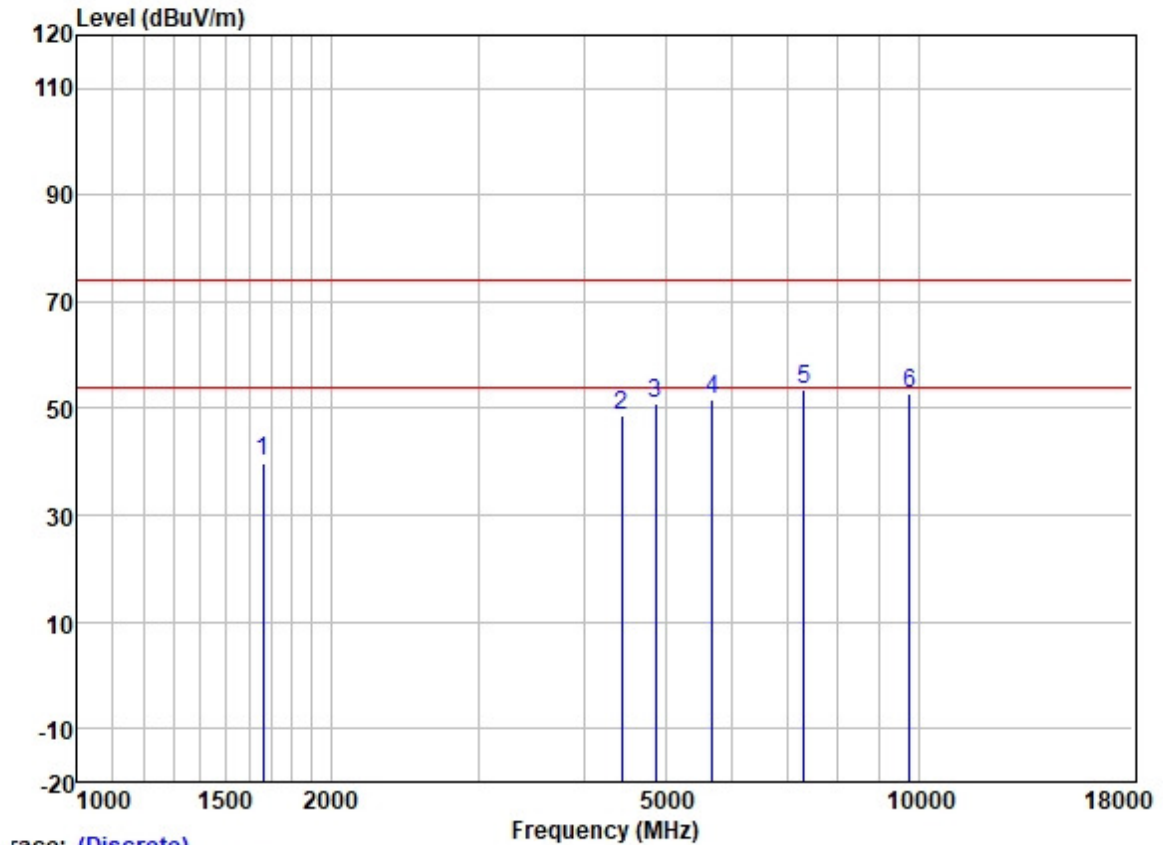
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1177.978	51.59	24.59	2.38	38.40	40.16	74.00	-33.84	HORIZONTAL	Peak
2	4101.052	51.22	29.94	4.60	36.80	48.96	74.00	-25.04	HORIZONTAL	Peak
3	4874.000	48.87	31.54	5.50	36.84	49.07	74.00	-24.93	HORIZONTAL	Peak
4	5932.819	50.32	32.34	6.00	36.90	51.76	74.00	-22.24	HORIZONTAL	Peak
5	7311.000	47.59	35.93	6.11	37.42	52.21	74.00	-21.79	HORIZONTAL	Peak
6	9748.000	45.43	38.50	7.02	37.41	53.54	74.00	-20.46	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



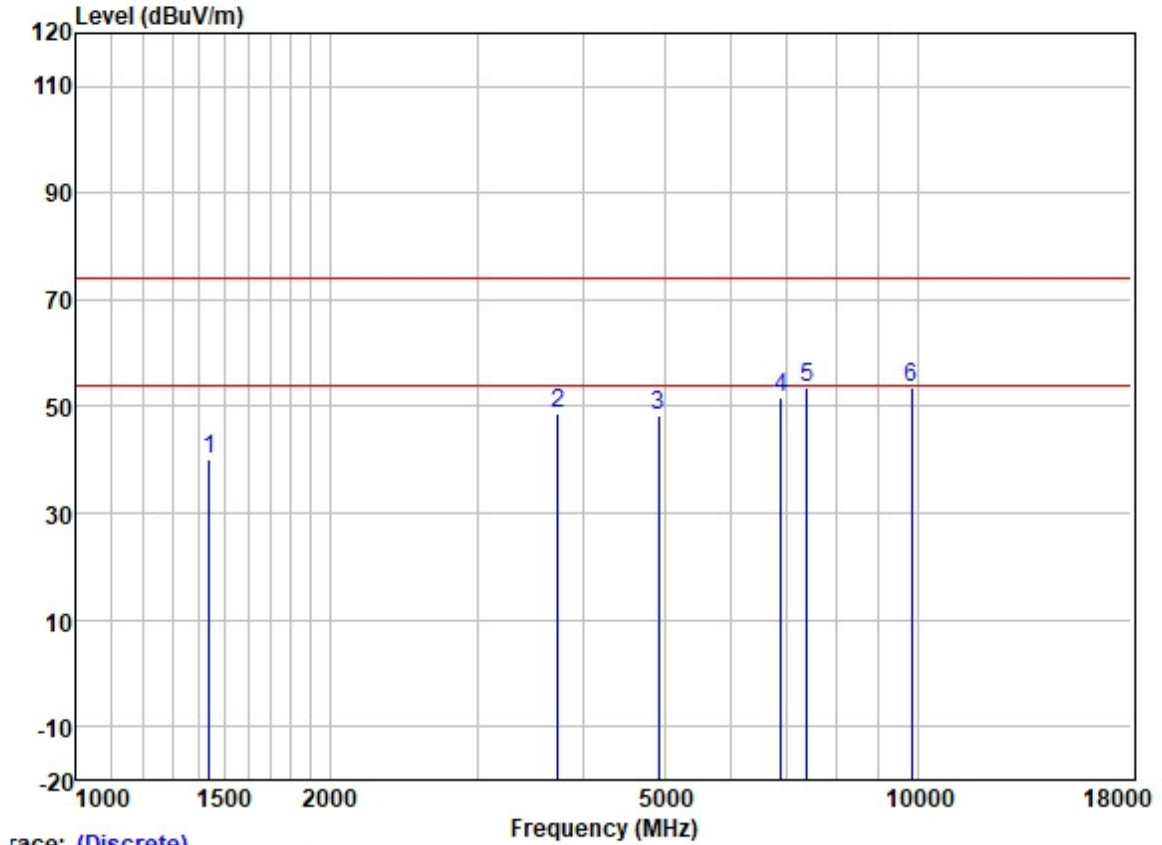
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.825	49.38	25.65	2.80	37.91	39.92	74.00	-34.08	VERTICAL	Peak
2	4435.579	50.08	30.72	4.78	36.81	48.77	74.00	-25.23	VERTICAL	Peak
3	4874.000	50.82	31.54	5.50	36.84	51.02	74.00	-22.98	VERTICAL	Peak
4	5695.582	50.07	32.01	6.40	36.89	51.59	74.00	-22.41	VERTICAL	Peak
5	7311.000	49.04	35.93	6.11	37.42	53.66	74.00	-20.34	VERTICAL	Peak
6	9748.000	44.67	38.50	7.02	37.41	52.78	74.00	-21.22	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



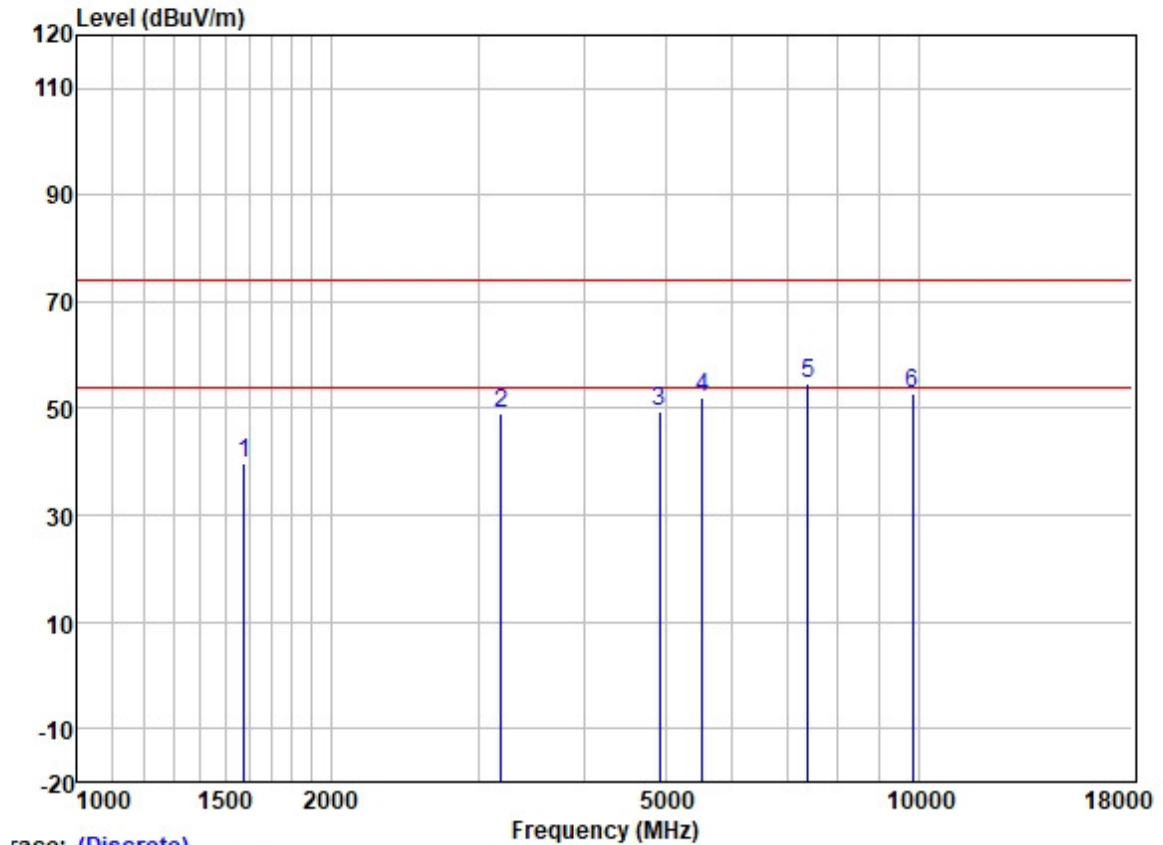
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1440.216	50.21	25.44	2.68	38.17	40.16	74.00	-33.84	HORIZONTAL	Peak
2	3737.130	51.60	29.35	4.57	36.87	48.65	74.00	-25.35	HORIZONTAL	Peak
3	4924.000	47.89	31.62	5.60	36.84	48.27	74.00	-25.73	HORIZONTAL	Peak
4	6889.023	48.37	34.85	5.81	37.18	51.85	74.00	-22.15	HORIZONTAL	Peak
5	7386.000	48.54	36.17	6.19	37.45	53.45	74.00	-20.55	HORIZONTAL	Peak
6	9848.000	45.56	38.58	6.99	37.41	53.72	74.00	-20.28	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



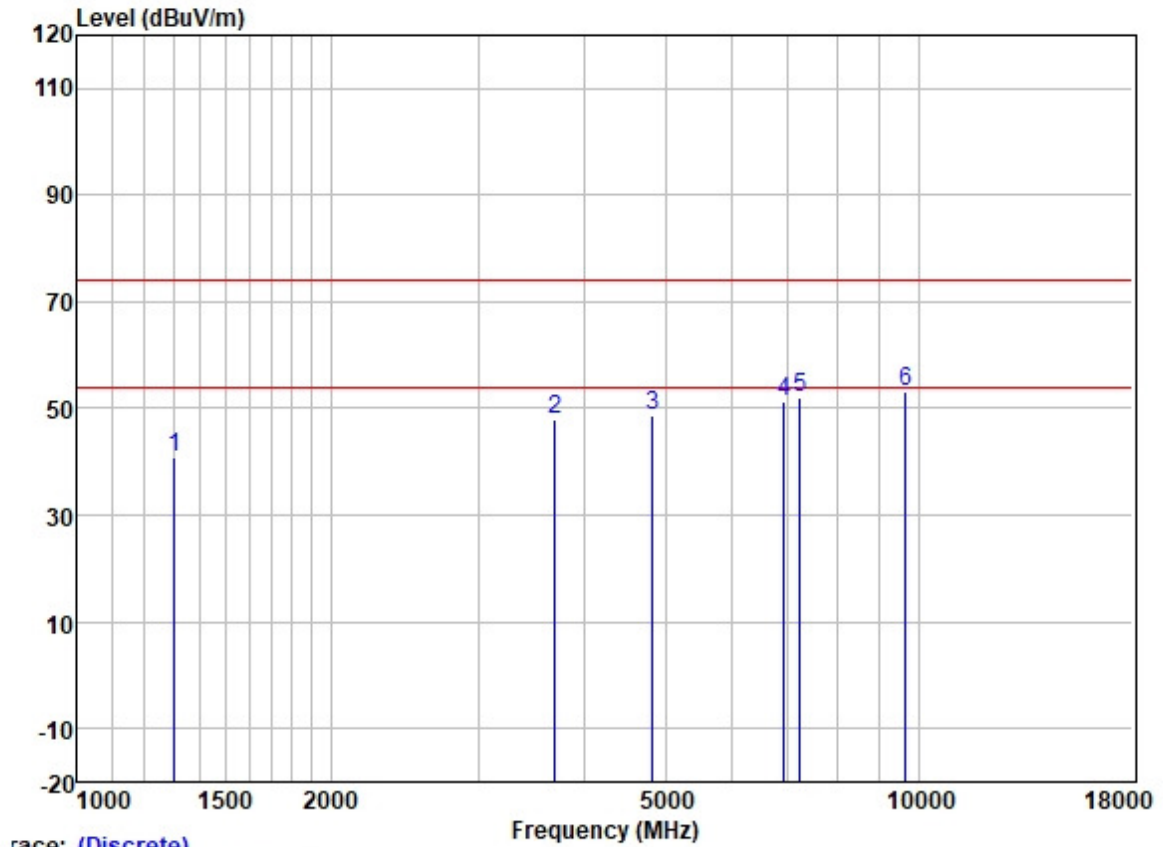
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1579.419	49.33	25.56	2.80	38.00	39.69	74.00	-34.31	VERTICAL Peak
2	3187.859	53.43	28.57	3.99	37.09	48.90	74.00	-25.10	VERTICAL Peak
3	4924.000	48.88	31.62	5.60	36.84	49.26	74.00	-24.74	VERTICAL Peak
4	5529.869	50.68	31.83	6.37	36.89	51.99	74.00	-22.01	VERTICAL Peak
5	7386.000	49.60	36.17	6.19	37.45	54.51	74.00	-19.49	VERTICAL Peak
6	9848.000	44.76	38.58	6.99	37.41	52.92	74.00	-21.08	VERTICAL Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



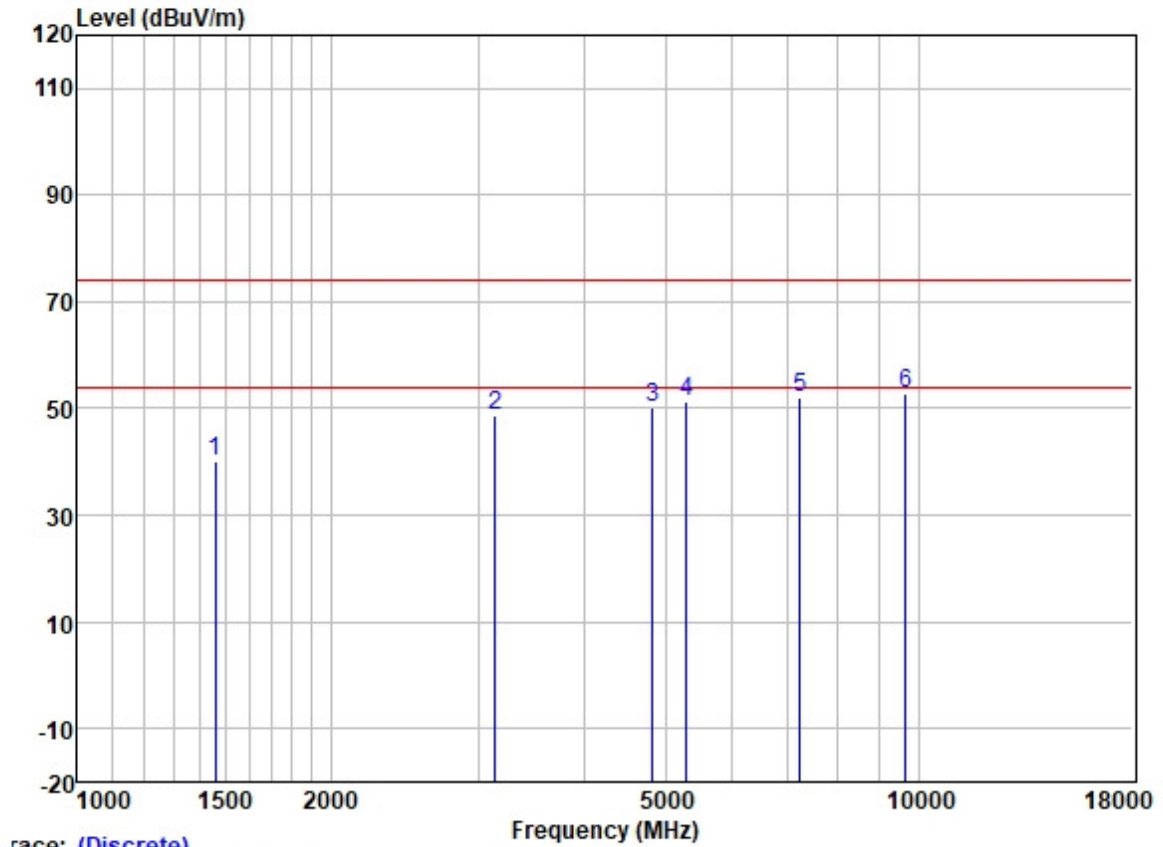
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1302.753	51.48	25.21	2.60	38.31	40.98	74.00	-33.02	HORIZONTAL	Peak
2	3697.705	51.12	29.22	4.55	36.88	48.01	74.00	-25.99	HORIZONTAL	Peak
3	4824.000	48.51	31.45	5.42	36.83	48.55	74.00	-25.45	HORIZONTAL	Peak
4	6927.379	47.94	34.92	5.81	37.19	51.48	74.00	-22.52	HORIZONTAL	Peak
5	7236.000	47.84	35.70	6.03	37.39	52.18	74.00	-21.82	HORIZONTAL	Peak
6	9648.000	45.04	38.40	7.06	37.42	53.08	74.00	-20.92	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



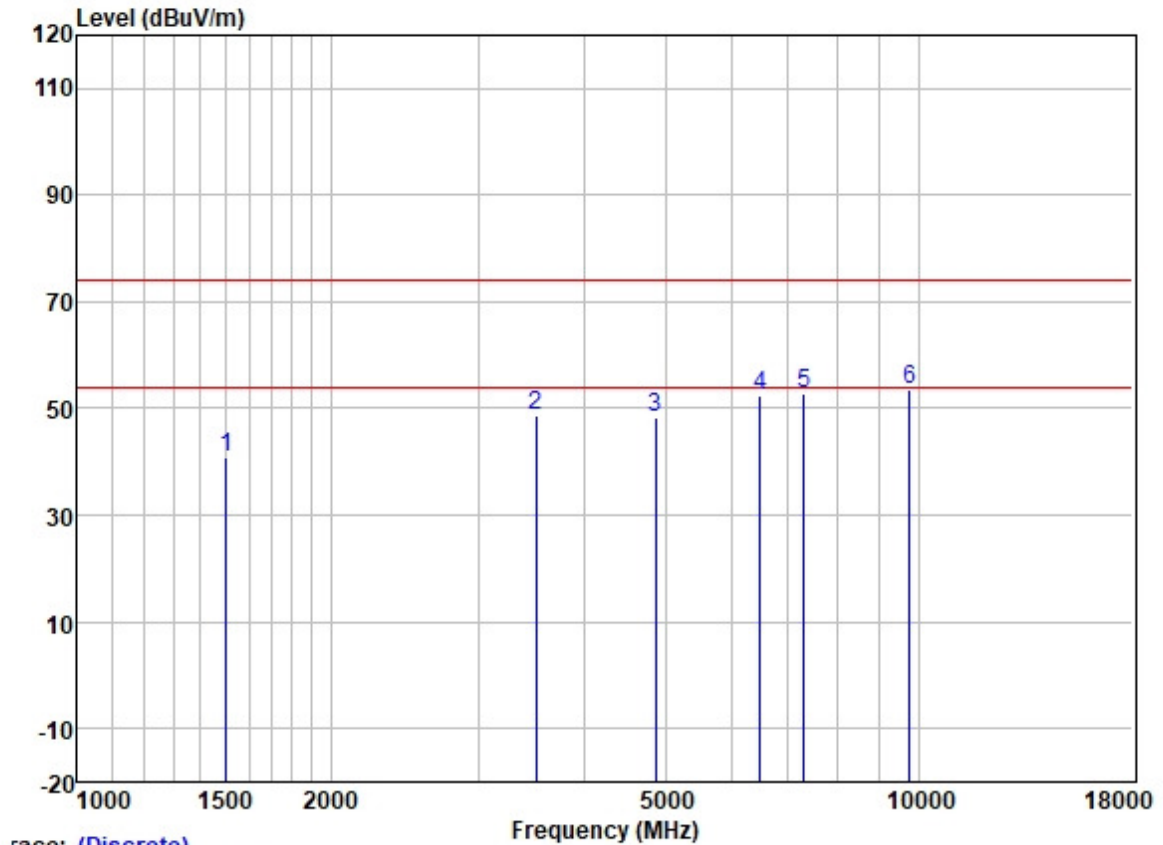
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1460.049	50.06	25.46	2.73	38.17	40.08	74.00 -33.92	VERTICAL	Peak
2	3135.709	53.42	28.51	3.95	37.14	48.74	74.00 -25.26	VERTICAL	Peak
3	4824.000	50.09	31.45	5.42	36.83	50.13	74.00 -23.87	VERTICAL	Peak
4	5300.538	50.22	31.76	6.10	36.87	51.21	74.00 -22.79	VERTICAL	Peak
5	7236.000	47.60	35.70	6.03	37.39	51.94	74.00 -22.06	VERTICAL	Peak
6	9648.000	44.91	38.40	7.06	37.42	52.95	74.00 -21.05	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



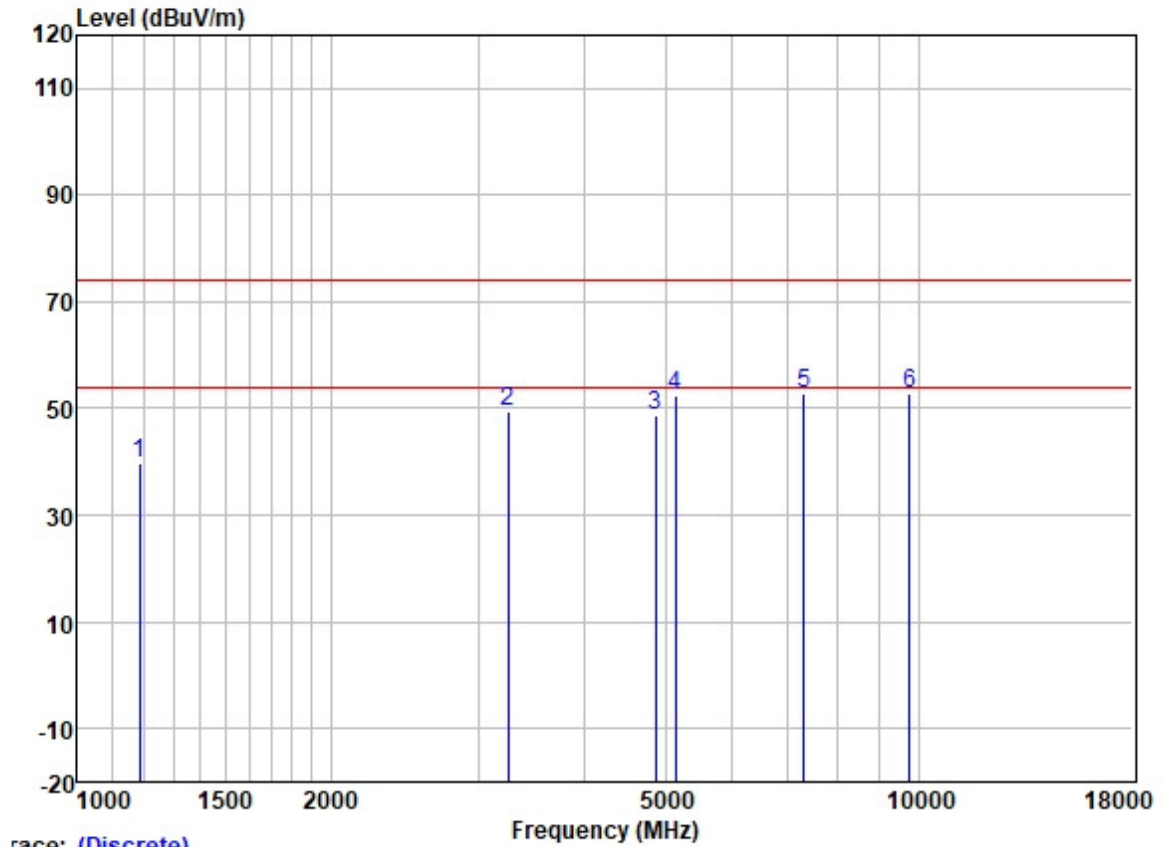
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1504.409	50.70	25.50	2.80	38.10	40.90	74.00	-33.10	HORIZONTAL Peak
2	3508.130	52.47	28.91	4.33	36.94	48.77	74.00	-25.23	HORIZONTAL Peak
3	4874.000	48.19	31.54	5.50	36.84	48.39	74.00	-25.61	HORIZONTAL Peak
4	6488.428	49.62	33.96	5.85	37.01	52.42	74.00	-21.58	HORIZONTAL Peak
5	7311.000	48.19	35.93	6.11	37.42	52.81	74.00	-21.19	HORIZONTAL Peak
6	9748.000	45.33	38.50	7.02	37.41	53.44	74.00	-20.56	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



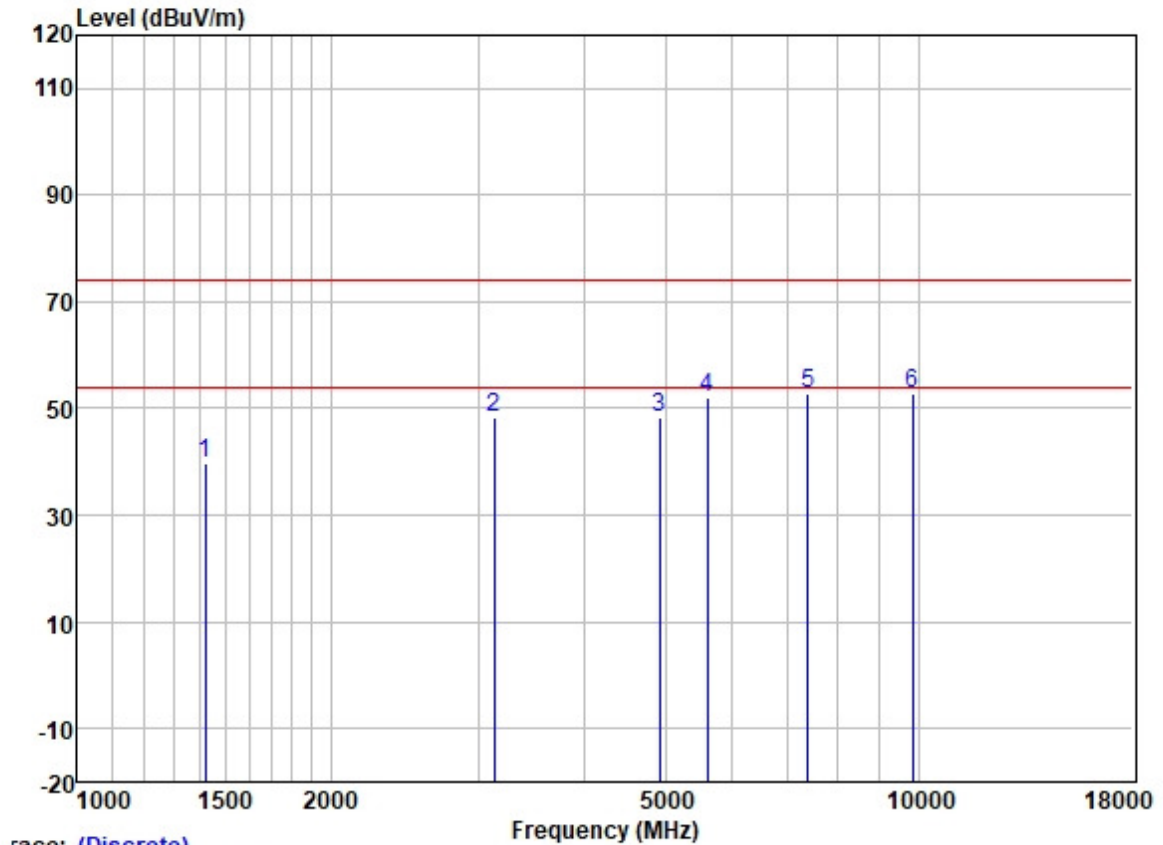
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1186.733	50.97	24.62	2.37	38.40	39.56	74.00	-34.44	VERTICAL	Peak
2	3250.696	53.74	28.68	4.03	37.06	49.39	74.00	-24.61	VERTICAL	Peak
3	4874.000	48.47	31.54	5.50	36.84	48.67	74.00	-25.33	VERTICAL	Peak
4	5147.838	51.94	31.72	5.62	36.86	52.42	74.00	-21.58	VERTICAL	Peak
5	7311.000	48.27	35.93	6.11	37.42	52.89	74.00	-21.11	VERTICAL	Peak
6	9748.000	44.51	38.50	7.02	37.41	52.62	74.00	-21.38	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



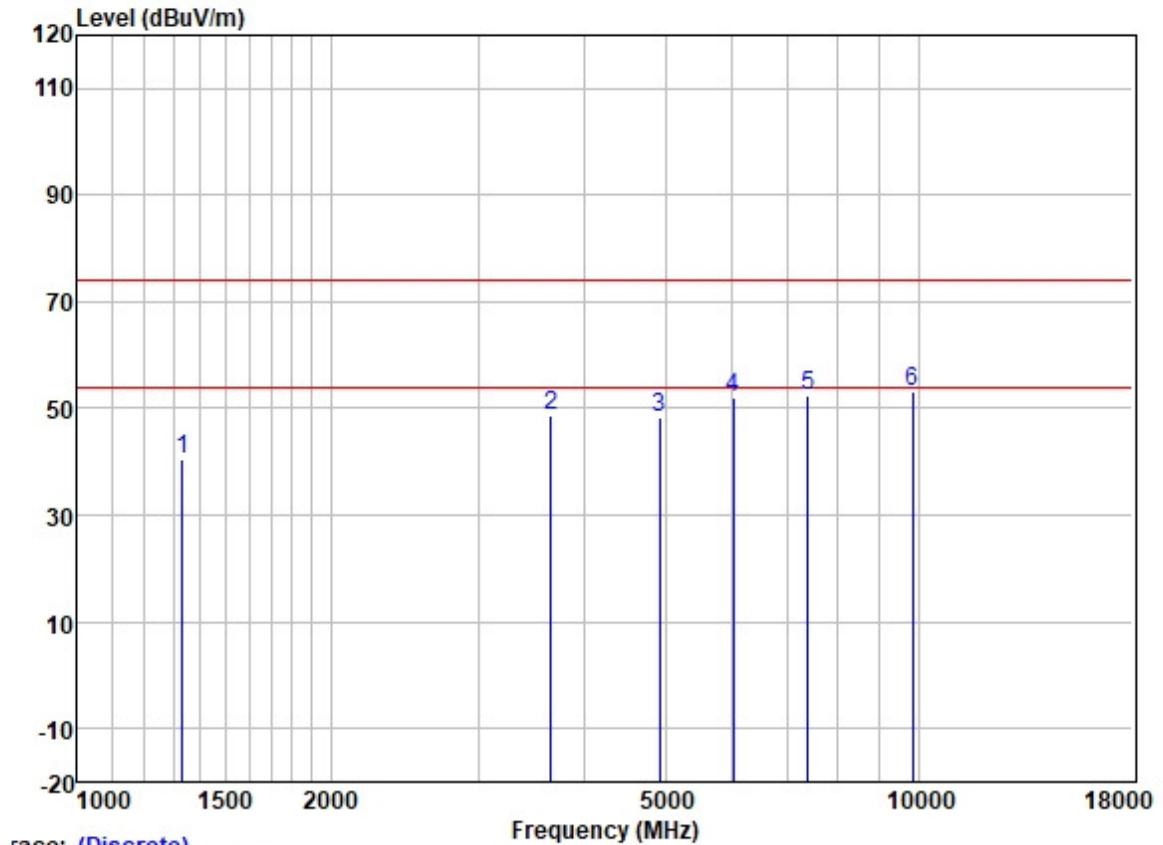
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1418.837	49.84	25.42	2.63	38.20	39.69	74.00	-34.31	HORIZONTAL Peak
2	3133.471	53.07	28.51	3.95	37.14	48.39	74.00	-25.61	HORIZONTAL Peak
3	4924.000	48.00	31.62	5.60	36.84	48.38	74.00	-25.62	HORIZONTAL Peak
4	5615.223	50.57	31.91	6.32	36.89	51.91	74.00	-22.09	HORIZONTAL Peak
5	7386.000	48.00	36.17	6.19	37.45	52.91	74.00	-21.09	HORIZONTAL Peak
6	9848.000	44.68	38.58	6.99	37.41	52.84	74.00	-21.16	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



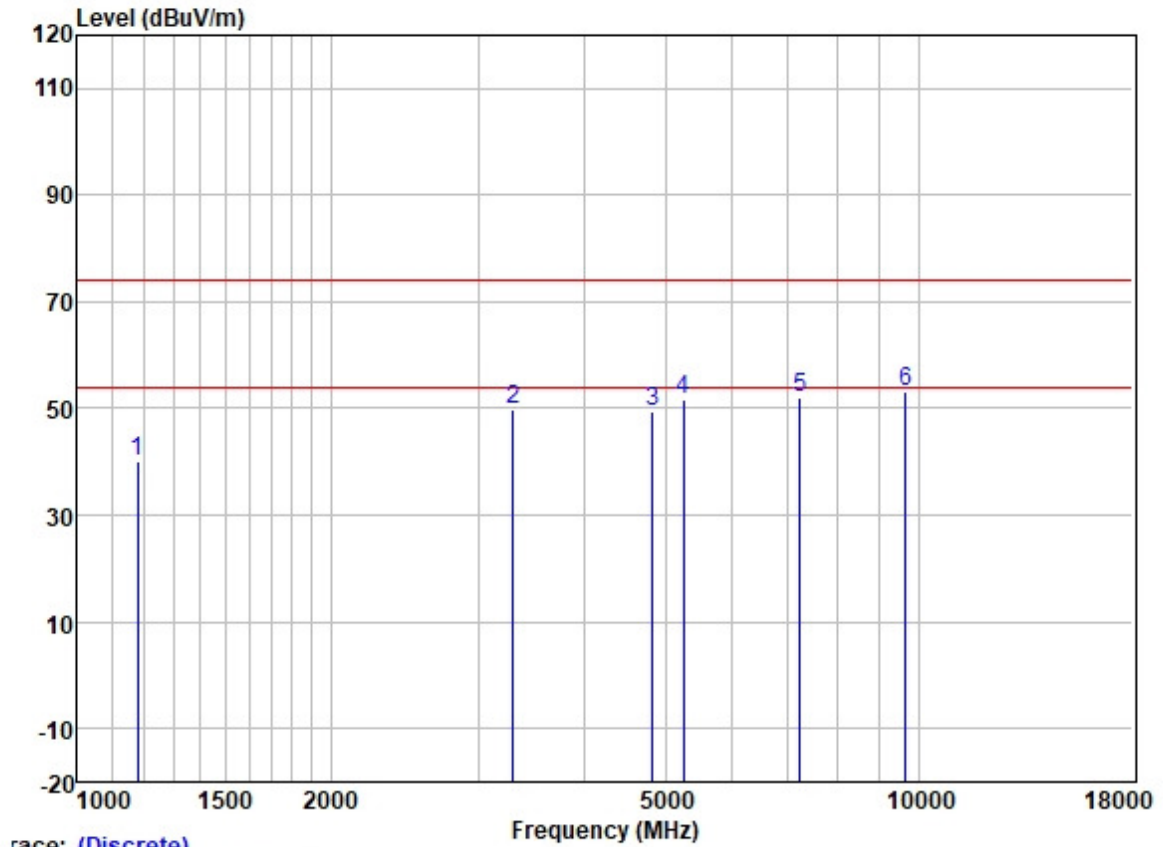
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1333.696	51.07	25.28	2.60	38.29	40.66	74.00	-33.34	VERTICAL	Peak
2	3659.447	51.74	29.15	4.53	36.89	48.53	74.00	-25.47	VERTICAL	Peak
3	4924.000	48.04	31.62	5.60	36.84	48.42	74.00	-25.58	VERTICAL	Peak
4	6030.956	50.37	32.48	6.18	36.90	52.13	74.00	-21.87	VERTICAL	Peak
5	7386.000	47.69	36.17	6.19	37.45	52.60	74.00	-21.40	VERTICAL	Peak
6	9848.000	45.16	38.58	6.99	37.41	53.32	74.00	-20.68	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



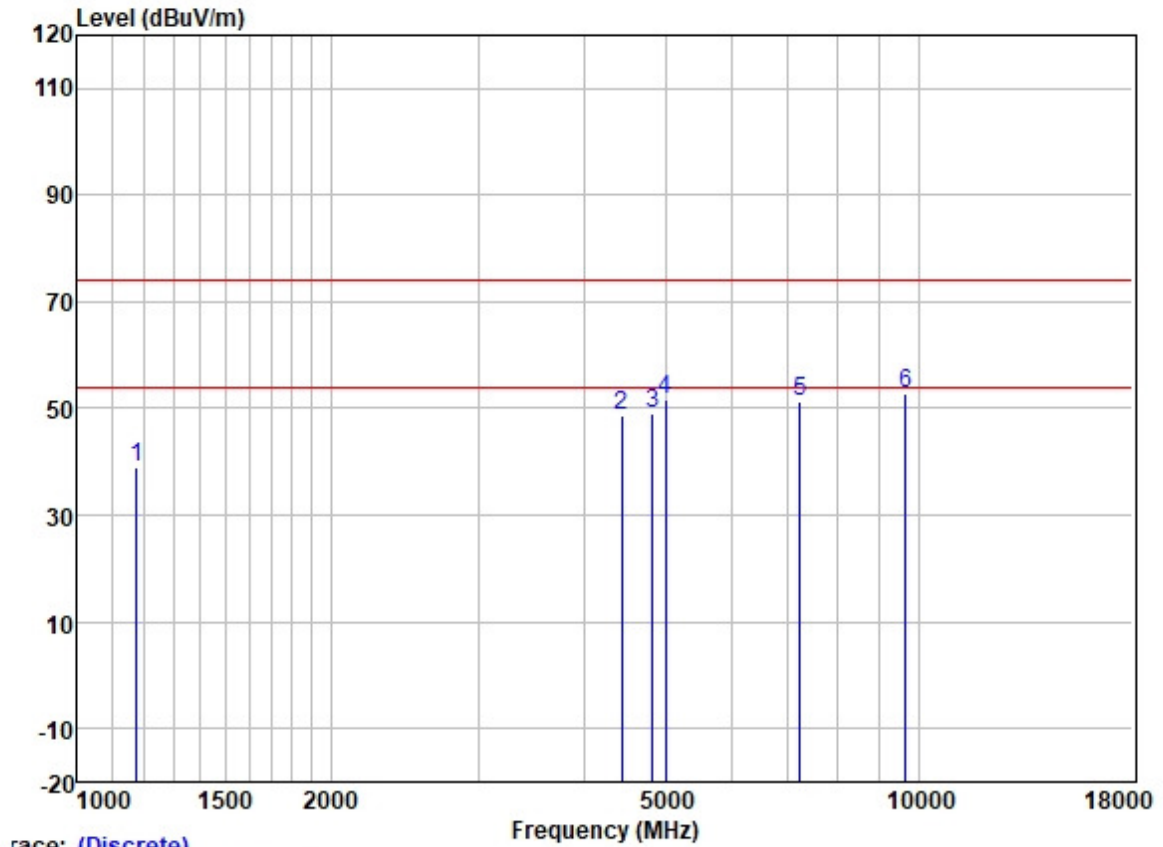
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1178.090	51.44	24.59	2.38	38.40	40.01	74.00	-33.99	HORIZONTAL	Peak
2	3293.555	53.99	28.74	4.05	37.03	49.75	74.00	-24.25	HORIZONTAL	Peak
3	4824.000	49.49	31.45	5.42	36.83	49.53	74.00	-24.47	HORIZONTAL	Peak
4	5257.888	50.98	31.75	5.77	36.87	51.63	74.00	-22.37	HORIZONTAL	Peak
5	7236.000	47.60	35.70	6.03	37.39	51.94	74.00	-22.06	HORIZONTAL	Peak
6	9648.000	45.22	38.40	7.06	37.42	53.26	74.00	-20.74	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



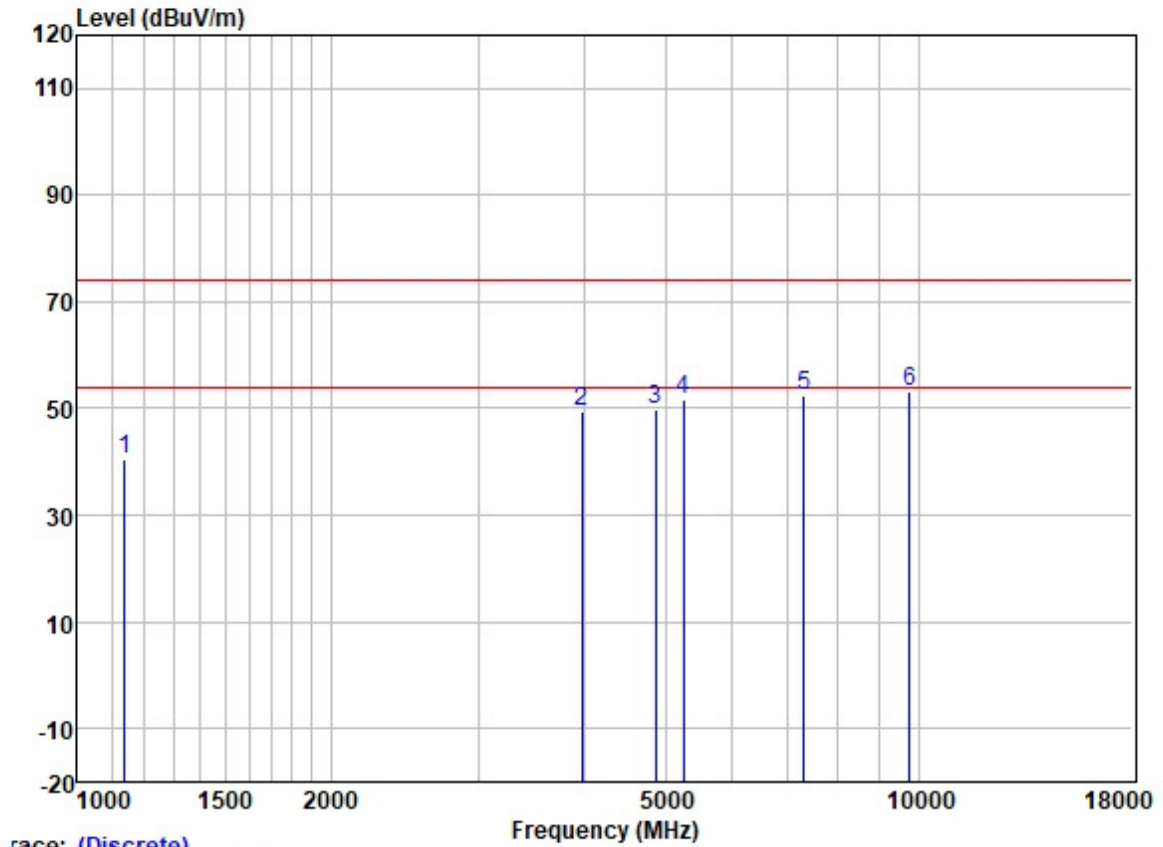
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1176.252	50.32	24.58	2.38	38.40	38.88	74.00	-35.12	VERTICAL	Peak
2	4443.498	49.80	30.73	4.83	36.81	48.55	74.00	-25.45	VERTICAL	Peak
3	4824.000	49.10	31.45	5.42	36.83	49.14	74.00	-24.86	VERTICAL	Peak
4	5005.350	51.17	31.70	5.70	36.85	51.72	74.00	-22.28	VERTICAL	Peak
5	7236.000	46.96	35.70	6.03	37.39	51.30	74.00	-22.70	VERTICAL	Peak
6	9648.000	44.75	38.40	7.06	37.42	52.79	74.00	-21.21	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



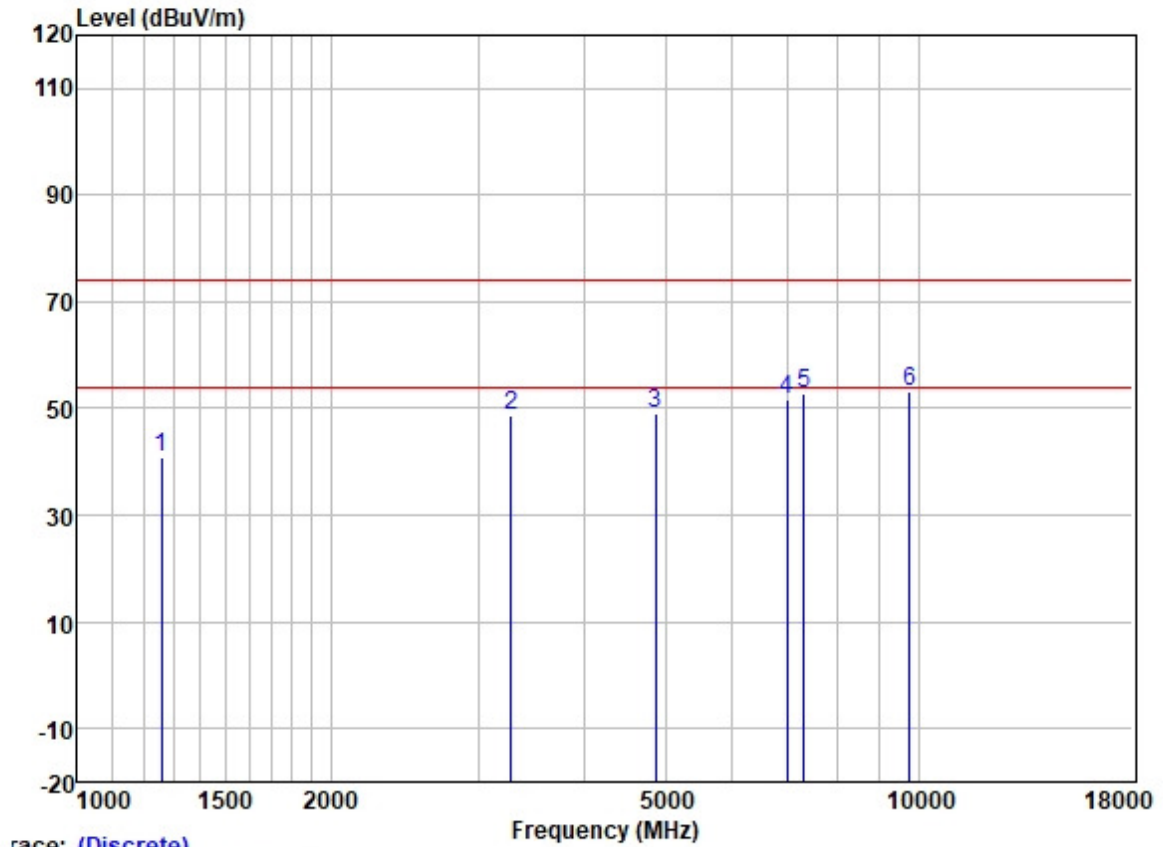
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1139.667	52.28	24.46	2.27	38.42	40.59	74.00	-33.41	HORIZONTAL	Peak
2	3980.283	51.80	29.78	4.60	36.81	49.37	74.00	-24.63	HORIZONTAL	Peak
3	4874.000	49.74	31.54	5.50	36.84	49.94	74.00	-24.06	HORIZONTAL	Peak
4	5257.073	51.13	31.75	5.77	36.87	51.78	74.00	-22.22	HORIZONTAL	Peak
5	7311.000	47.94	35.93	6.11	37.42	52.56	74.00	-21.44	HORIZONTAL	Peak
6	9748.000	45.21	38.50	7.02	37.41	53.32	74.00	-20.68	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



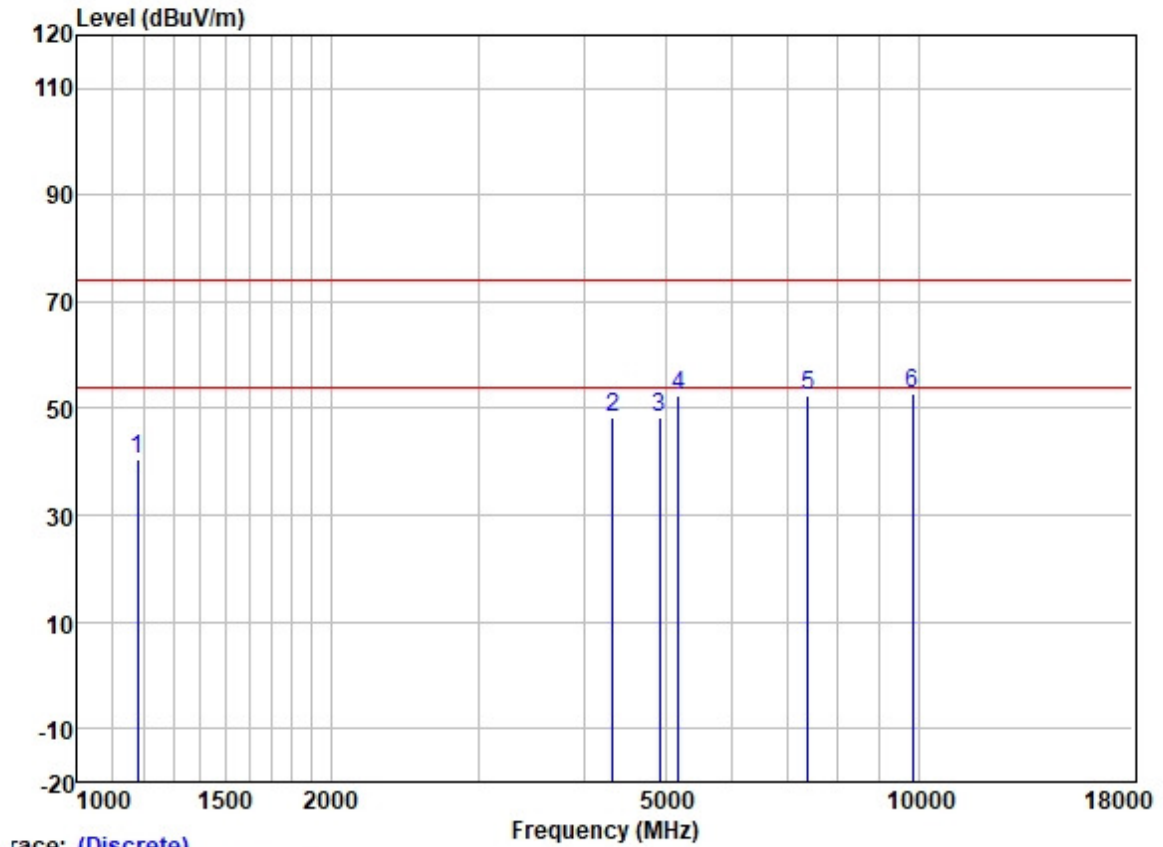
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1260.103	51.86	25.07	2.40	38.35	40.98	74.00	-33.02	VERTICAL	Peak
2	3279.929	53.09	28.73	4.04	37.04	48.82	74.00	-25.18	VERTICAL	Peak
3	4874.000	48.87	31.54	5.50	36.84	49.07	74.00	-24.93	VERTICAL	Peak
4	6979.193	48.15	34.97	5.81	37.23	51.70	74.00	-22.30	VERTICAL	Peak
5	7311.000	48.27	35.93	6.11	37.42	52.89	74.00	-21.11	VERTICAL	Peak
6	9748.000	45.12	38.50	7.02	37.41	53.23	74.00	-20.77	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



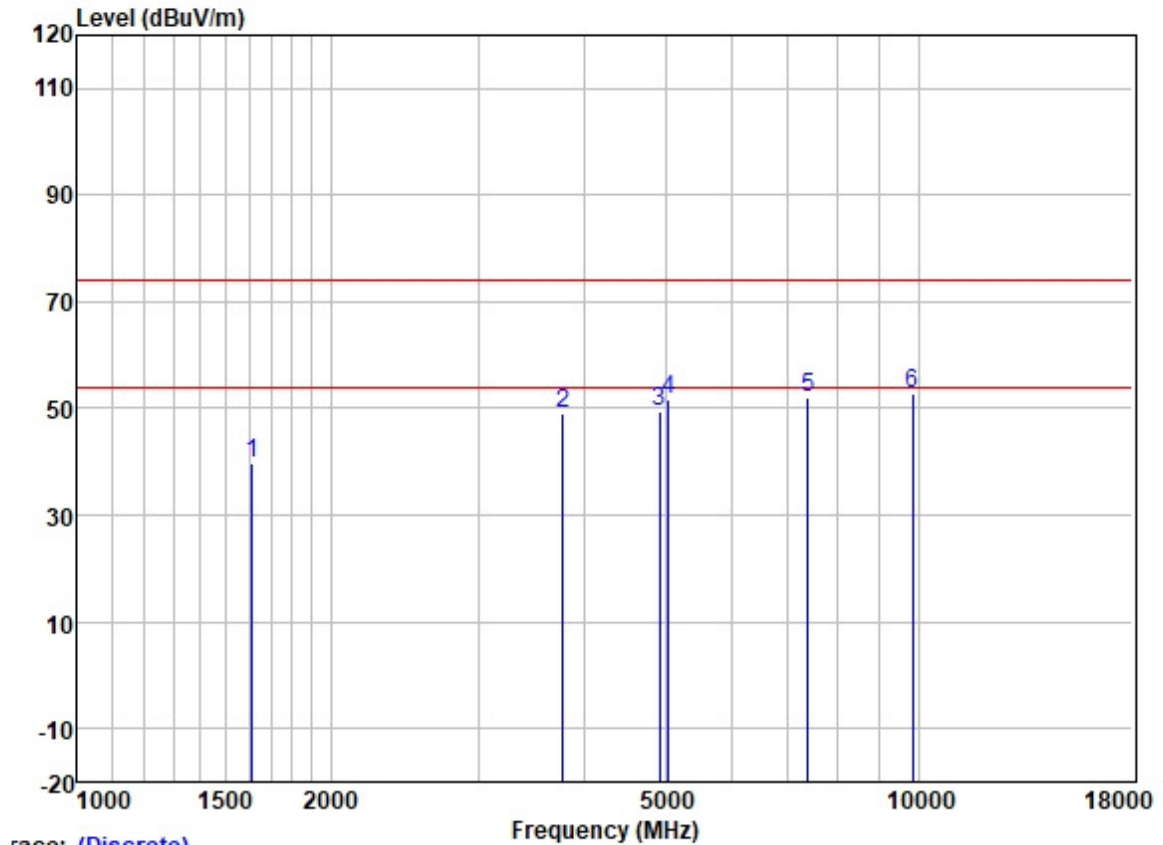
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1179.115	51.87	24.59	2.38	38.40	40.44	74.00	-33.56	HORIZONTAL	Peak
2	4325.490	49.88	30.54	4.67	36.81	48.28	74.00	-25.72	HORIZONTAL	Peak
3	4924.000	47.92	31.62	5.60	36.84	48.30	74.00	-25.70	HORIZONTAL	Peak
4	5184.079	51.90	31.73	5.61	36.87	52.37	74.00	-21.63	HORIZONTAL	Peak
5	7386.000	47.35	36.17	6.19	37.45	52.26	74.00	-21.74	HORIZONTAL	Peak
6	9848.000	44.77	38.58	6.99	37.41	52.93	74.00	-21.07	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



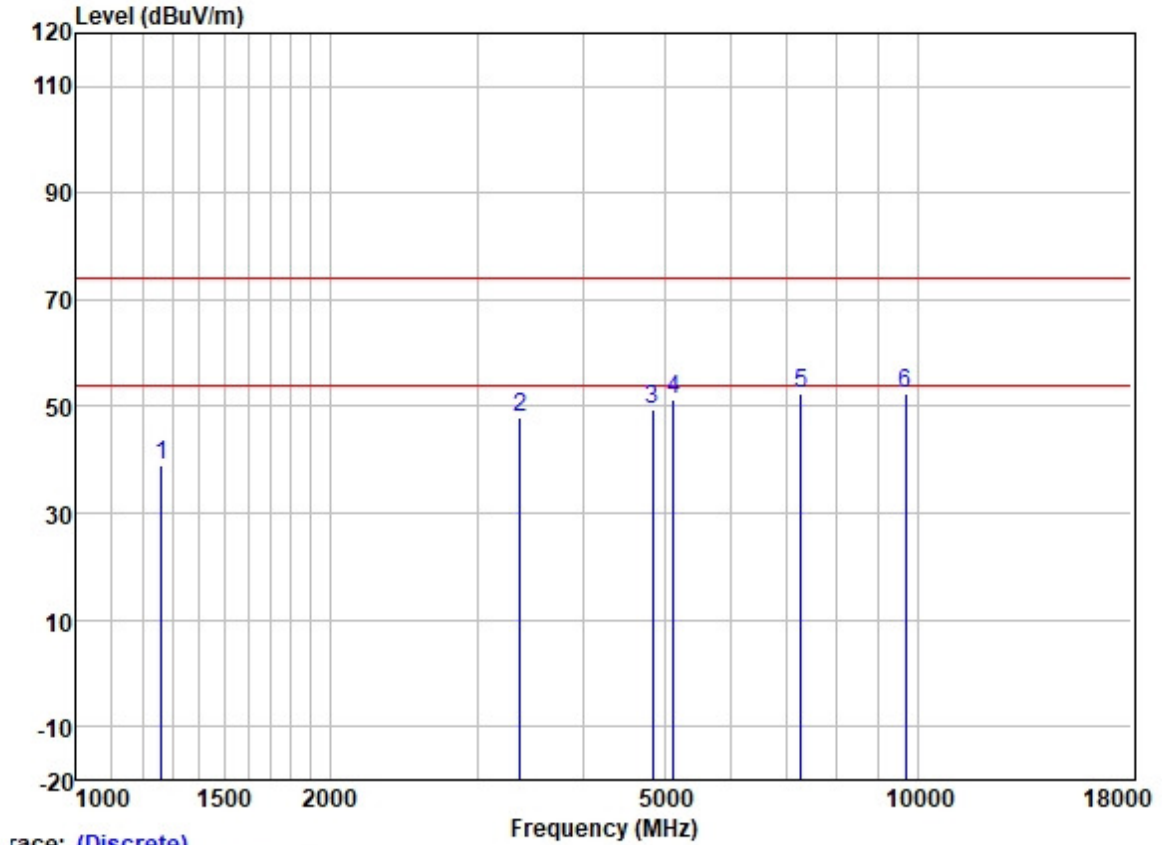
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1614.540	49.37	25.60	2.80	37.95	39.82	74.00	-34.18	VERTICAL Peak
2	3775.245	51.73	29.47	4.59	36.86	48.93	74.00	-25.07	VERTICAL Peak
3	4924.000	48.89	31.62	5.60	36.84	49.27	74.00	-24.73	VERTICAL Peak
4	5042.531	51.24	31.71	5.68	36.86	51.77	74.00	-22.23	VERTICAL Peak
5	7386.000	47.21	36.17	6.19	37.45	52.12	74.00	-21.88	VERTICAL Peak
6	9848.000	44.74	38.58	6.99	37.41	52.90	74.00	-21.10	VERTICAL Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



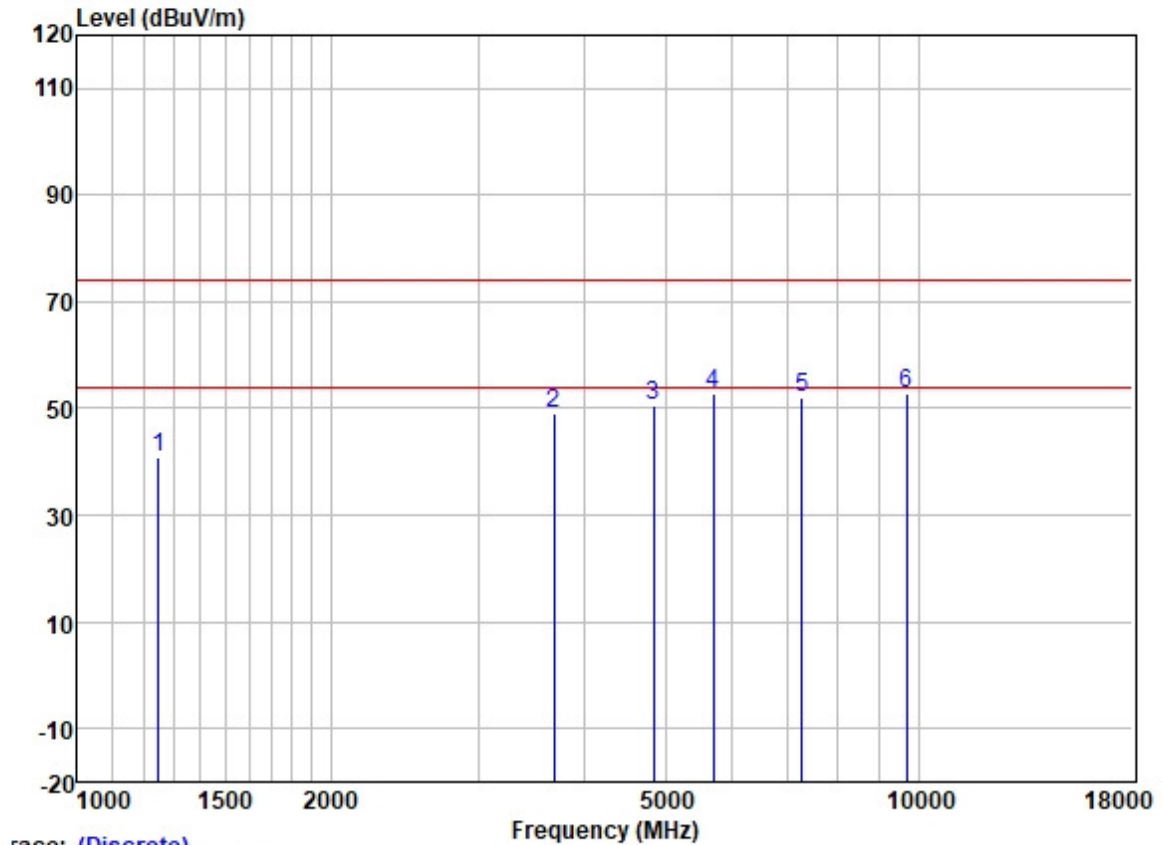
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1261.176	49.79	25.07	2.40	38.35	38.91	74.00	-35.09	HORIZONTAL Peak
2	3369.281	52.04	28.82	4.09	36.99	47.96	74.00	-26.04	HORIZONTAL Peak
3	4844.000	49.49	31.50	5.45	36.84	49.60	74.00	-24.40	HORIZONTAL Peak
4	5128.805	50.77	31.72	5.63	36.86	51.26	74.00	-22.74	HORIZONTAL Peak
5	7266.000	47.88	35.78	6.06	37.41	52.31	74.00	-21.69	HORIZONTAL Peak
6	9688.000	44.26	38.44	7.04	37.42	52.32	74.00	-21.68	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



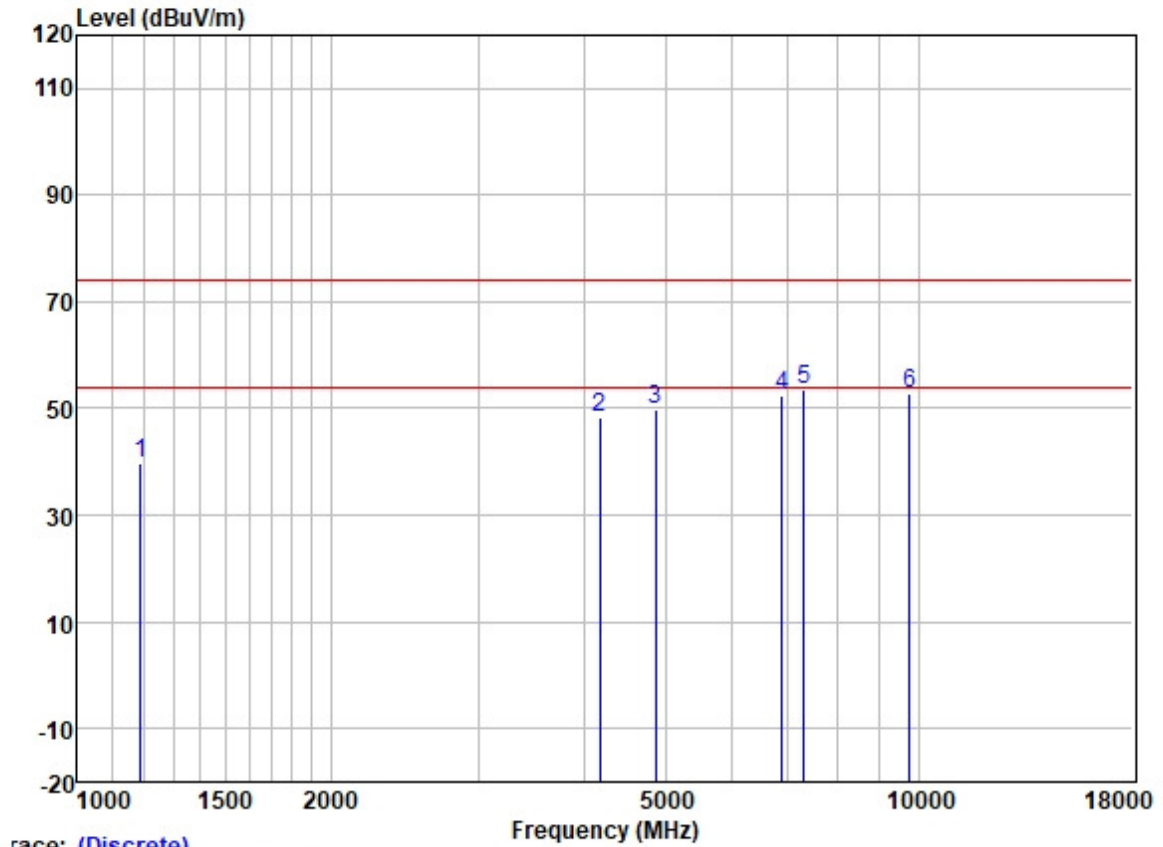
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1247.472	51.70	25.02	2.34	38.35	40.71	74.00	-33.29	VERTICAL	Peak
2	3691.738	52.18	29.22	4.55	36.88	49.07	74.00	-24.93	VERTICAL	Peak
3	4844.000	50.39	31.50	5.45	36.84	50.50	74.00	-23.50	VERTICAL	Peak
4	5695.901	51.12	32.01	6.40	36.89	52.64	74.00	-21.36	VERTICAL	Peak
5	7266.000	47.71	35.78	6.06	37.41	52.14	74.00	-21.86	VERTICAL	Peak
6	9688.000	44.67	38.44	7.04	37.42	52.73	74.00	-21.27	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



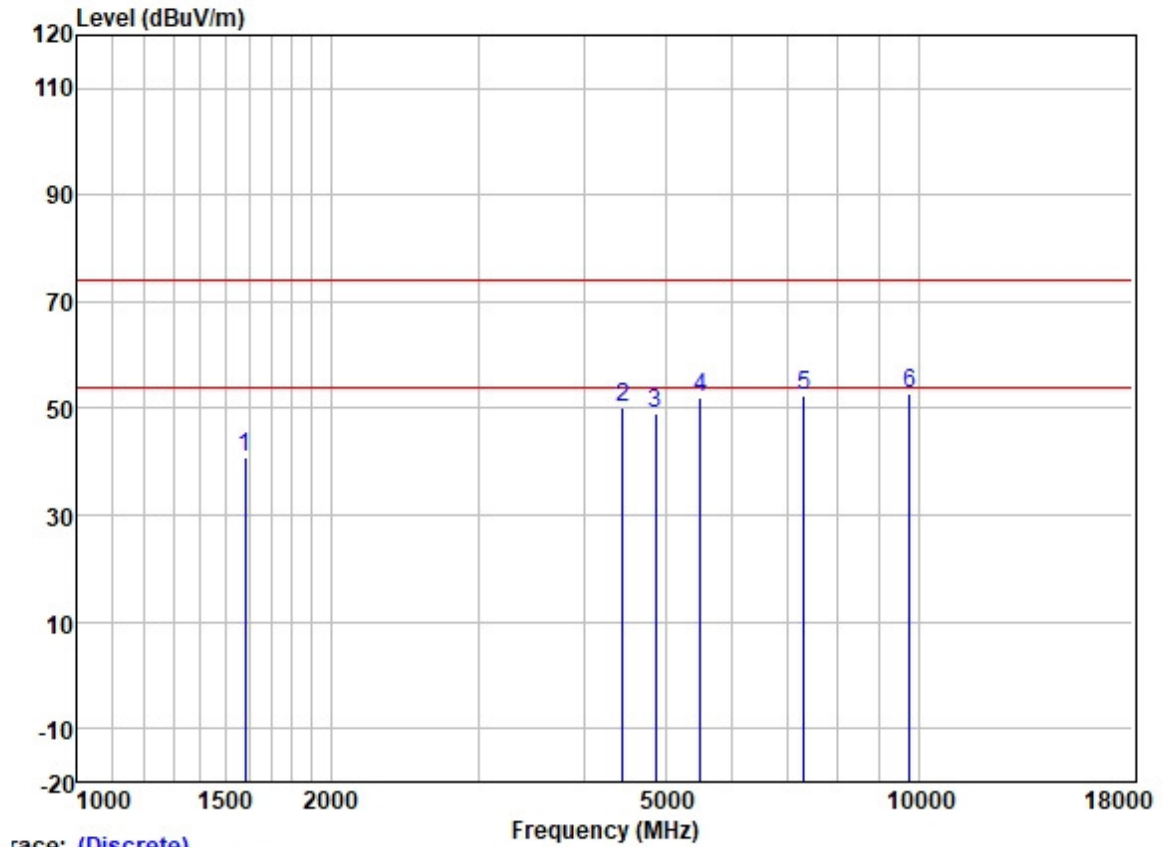
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1189.641	51.05	24.63	2.36	38.39	39.65	74.00	-34.35	HORIZONTAL	Peak
2	4176.936	50.43	30.12	4.60	36.80	48.35	74.00	-25.65	HORIZONTAL	Peak
3	4874.000	49.49	31.54	5.50	36.84	49.69	74.00	-24.31	HORIZONTAL	Peak
4	6890.367	48.94	34.85	5.81	37.18	52.42	74.00	-21.58	HORIZONTAL	Peak
5	7311.000	48.75	35.93	6.11	37.42	53.37	74.00	-20.63	HORIZONTAL	Peak
6	9748.000	44.76	38.50	7.02	37.41	52.87	74.00	-21.13	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



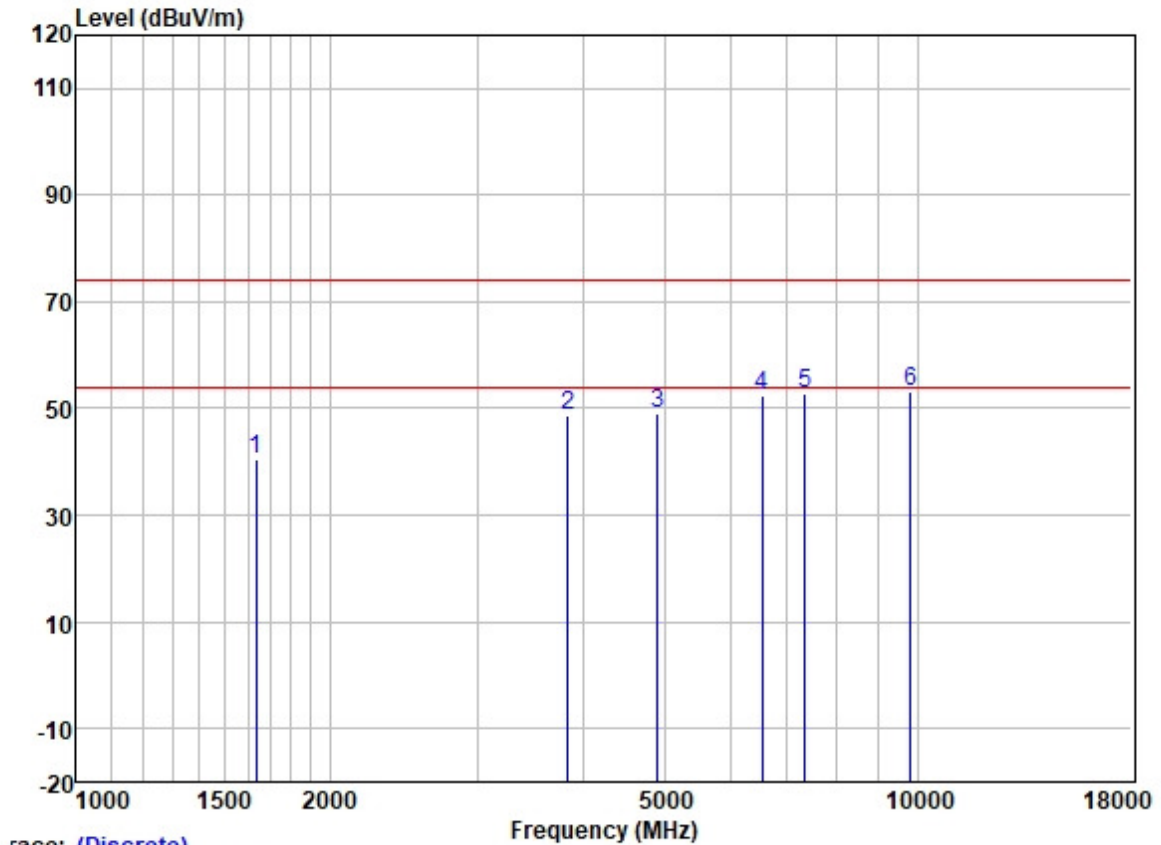
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1581.383	50.60	25.56	2.80	38.00	40.96	74.00	-33.04	VERTICAL	Peak
2	4447.502	51.45	30.73	4.83	36.81	50.20	74.00	-23.80	VERTICAL	Peak
3	4874.000	49.05	31.54	5.50	36.84	49.25	74.00	-24.75	VERTICAL	Peak
4	5505.679	50.90	31.80	6.40	36.88	52.22	74.00	-21.78	VERTICAL	Peak
5	7311.000	47.96	35.93	6.11	37.42	52.58	74.00	-21.42	VERTICAL	Peak
6	9748.000	44.86	38.50	7.02	37.41	52.97	74.00	-21.03	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



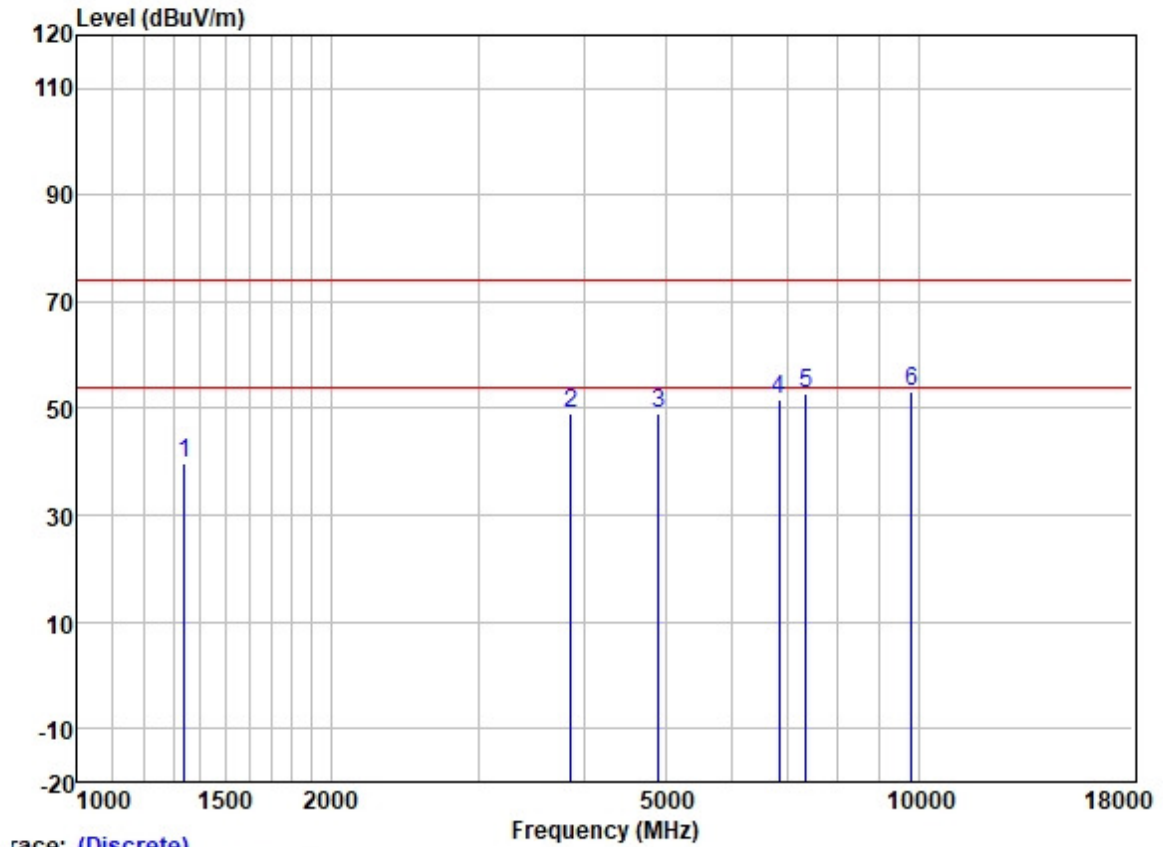
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1635.958	49.94	25.62	2.80	37.95	40.41	74.00	-33.59	HORIZONTAL Peak
2	3838.884	51.39	29.59	4.60	36.84	48.74	74.00	-25.26	HORIZONTAL Peak
3	4904.000	48.85	31.58	5.55	36.84	49.14	74.00	-24.86	HORIZONTAL Peak
4	6531.373	49.39	34.03	5.84	37.02	52.24	74.00	-21.76	HORIZONTAL Peak
5	7356.000	48.13	36.06	6.15	37.44	52.90	74.00	-21.10	HORIZONTAL Peak
6	9808.000	45.14	38.56	7.00	37.41	53.29	74.00	-20.71	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1339.864	49.97	25.29	2.60	38.27	39.59	74.00	-34.41	VERTICAL	Peak
2	3859.985	51.60	29.62	4.60	36.84	48.98	74.00	-25.02	VERTICAL	Peak
3	4904.000	48.79	31.58	5.55	36.84	49.08	74.00	-24.92	VERTICAL	Peak
4	6836.046	48.27	34.74	5.82	37.13	51.70	74.00	-22.30	VERTICAL	Peak
5	7356.000	48.17	36.06	6.15	37.44	52.94	74.00	-21.06	VERTICAL	Peak
6	9808.000	45.10	38.56	7.00	37.41	53.25	74.00	-20.75	VERTICAL	Peak



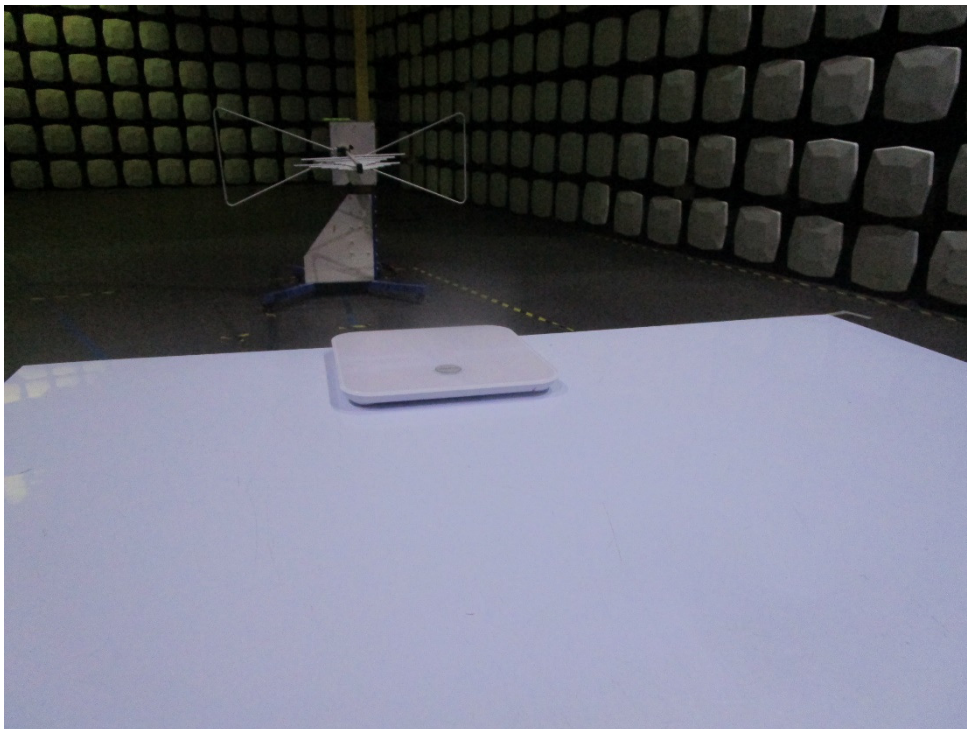
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8 Test Setup Photo

Radiated Emissions which fall in the restricted bands



Radiated Spurious Emissions (Below 1GHz)



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Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Radiated Spurious Emissions (Above 1GHz)



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZCR2108020913AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

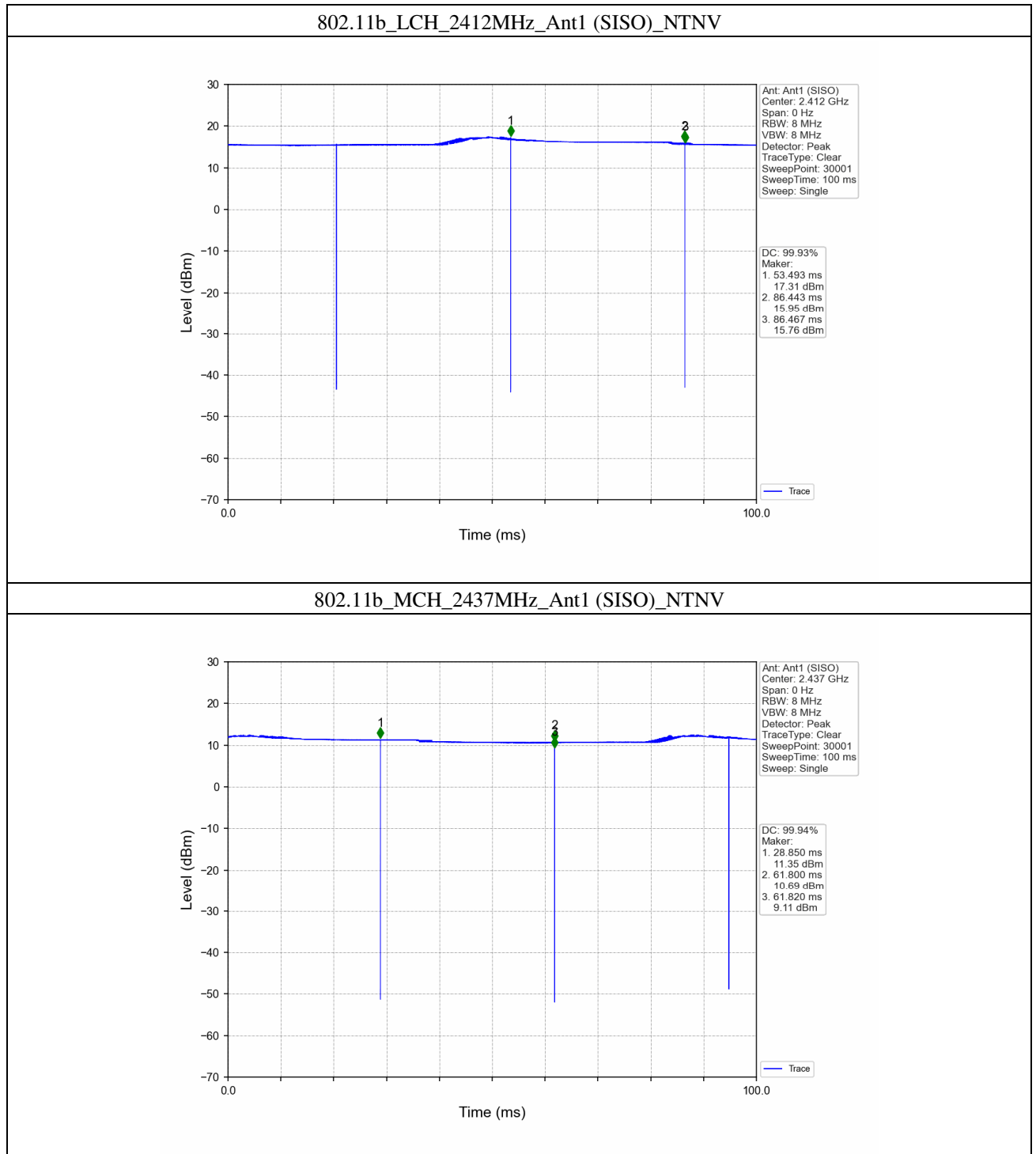
1.1.1 Test Result

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	32.950	32.974	99.93	0.00	0.01
		2437	32.950	32.970	99.94	0.00	0.00
		2462	32.950	32.970	99.94	0.00	0.00
802.11g	SISO	2412	73.323	73.963	99.13	0.04	0.00
		2437	5.484	5.510	99.53	0.02	0.00
		2462	5.484	5.510	99.53	0.02	0.00
802.11n (HT20)	SISO	2412	50.402	50.730	99.35	0.03	0.00
		2437	5.080	5.107	99.47	0.02	0.04
		2462	5.080	5.106	99.49	0.02	0.00
802.11n (HT40)	SISO	2422	2.468	2.494	98.96	0.05	0.00
		2437	2.468	2.494	98.96	0.05	0.00
		2452	2.468	2.494	98.96	0.05	0.00



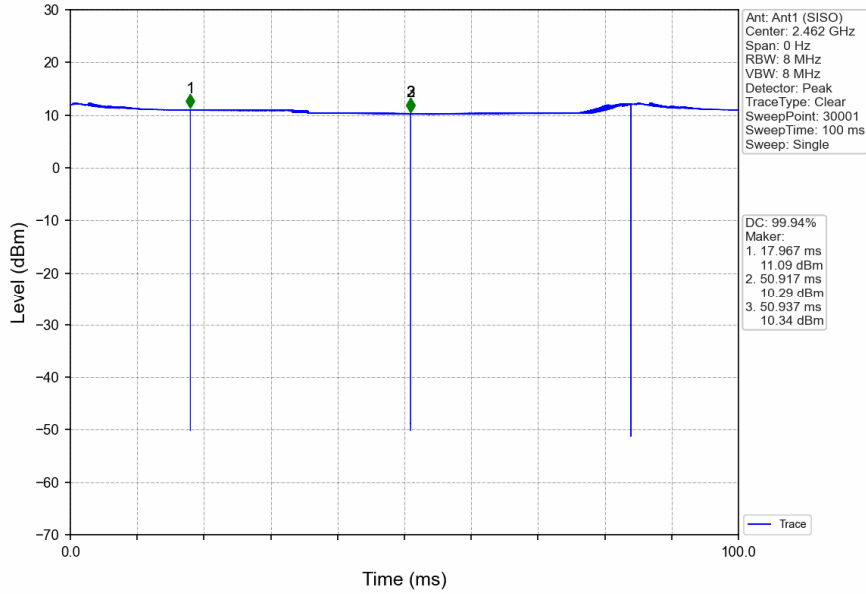
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1.1.2 Test Graph

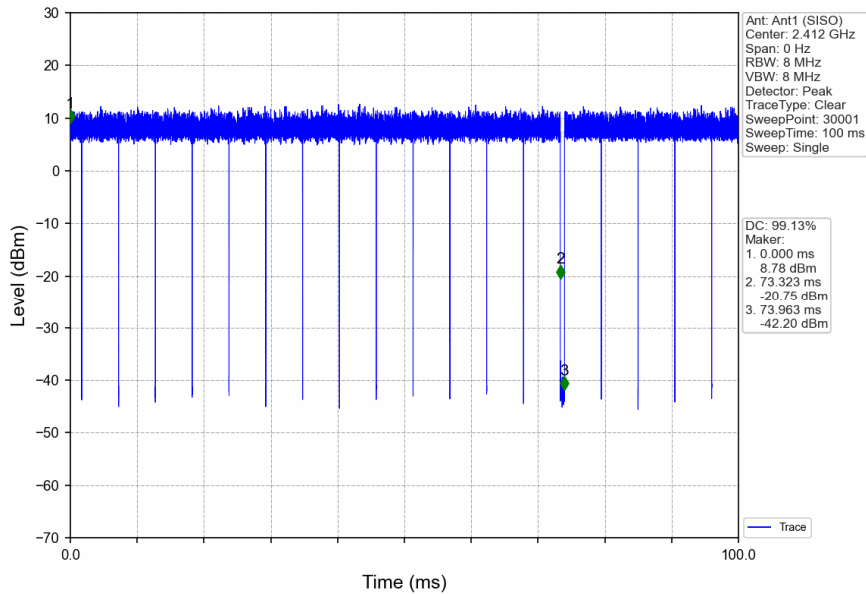


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



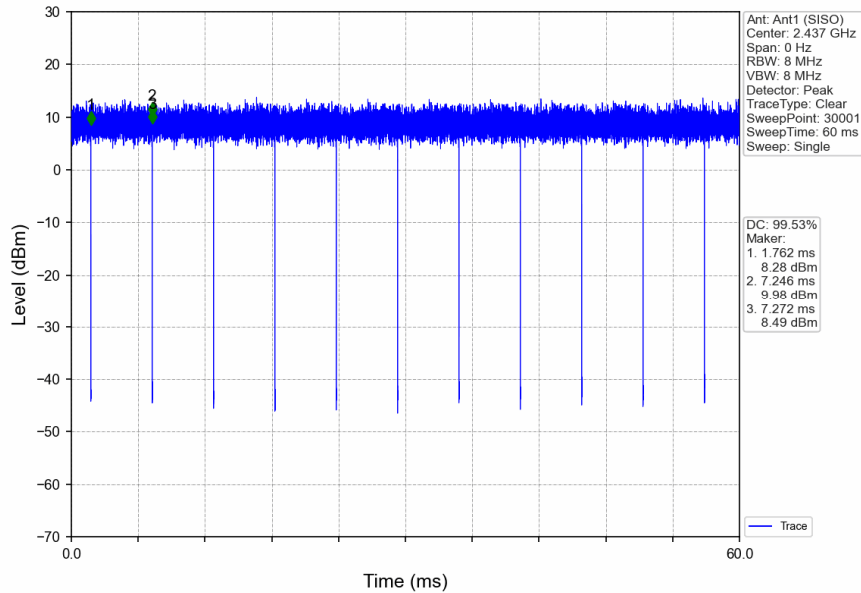
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



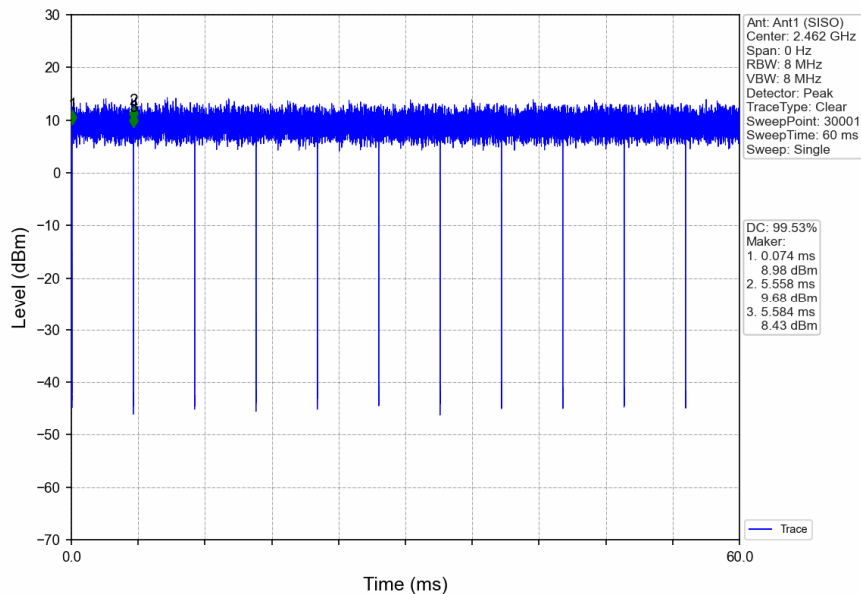
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



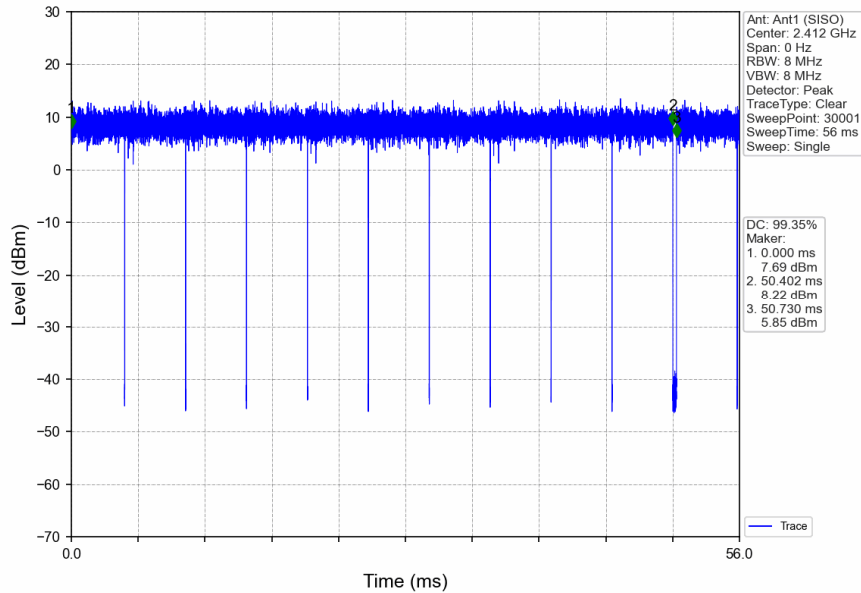
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



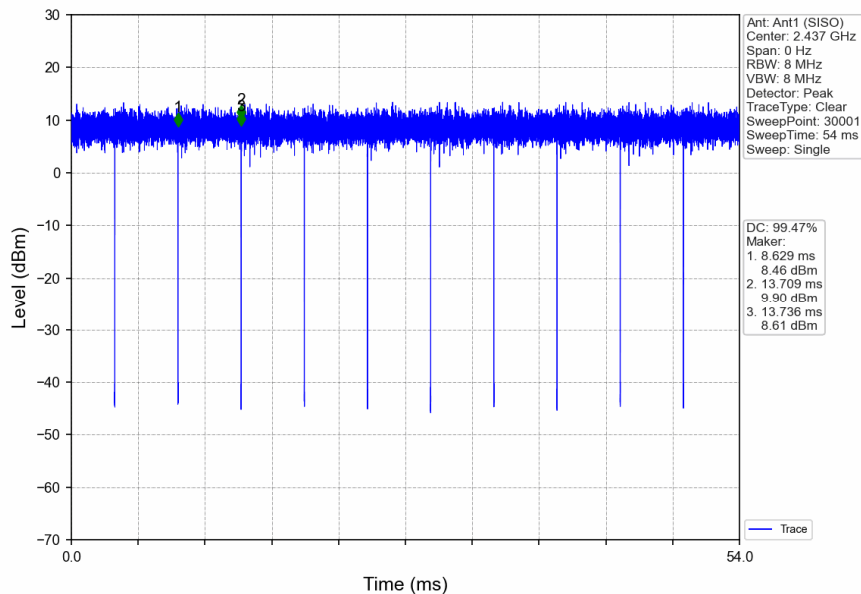
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



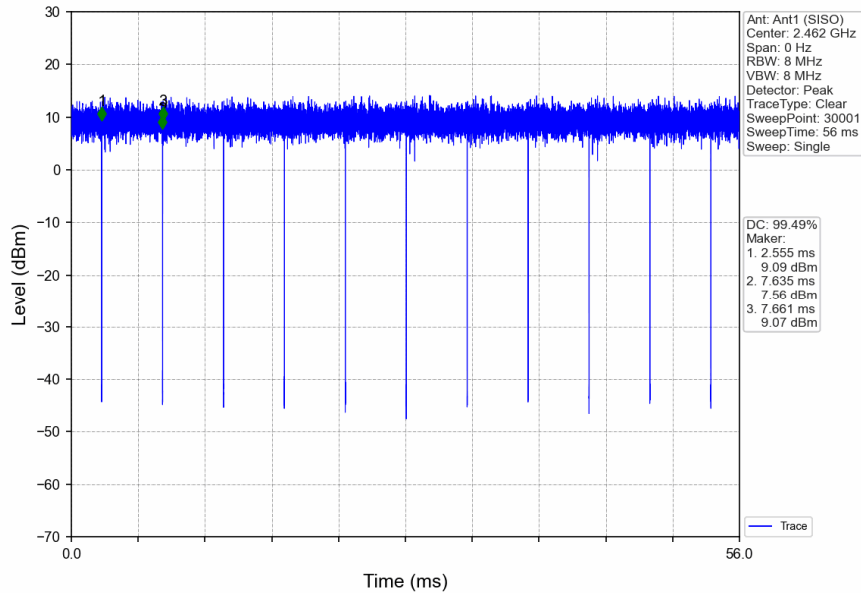
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



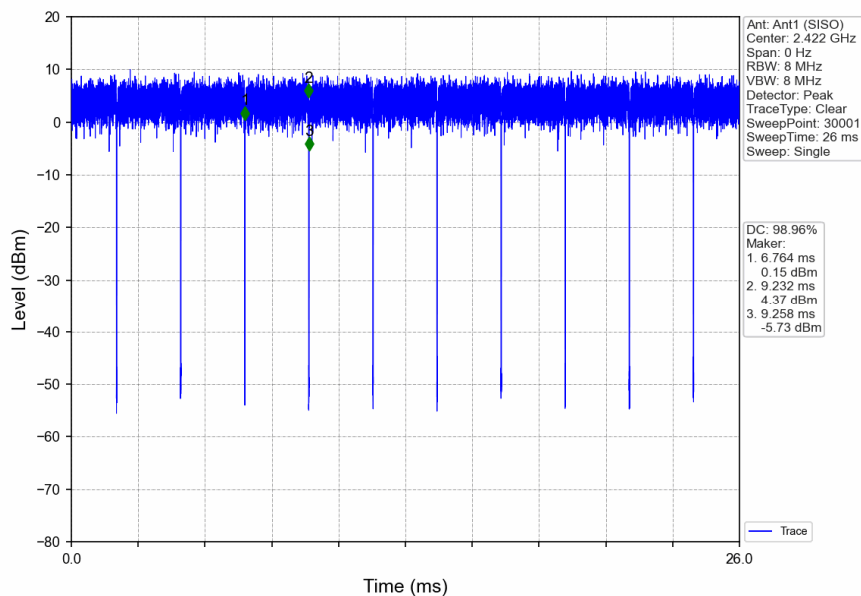
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



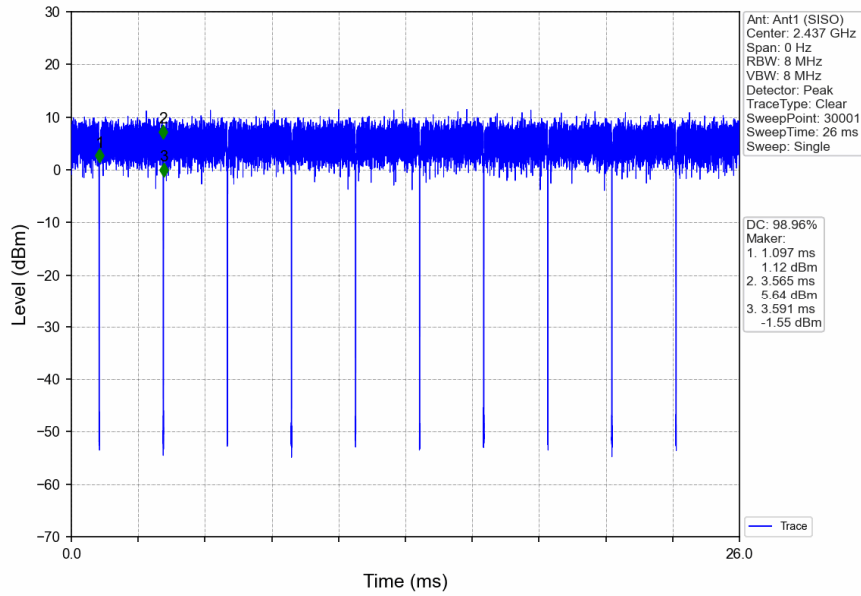
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



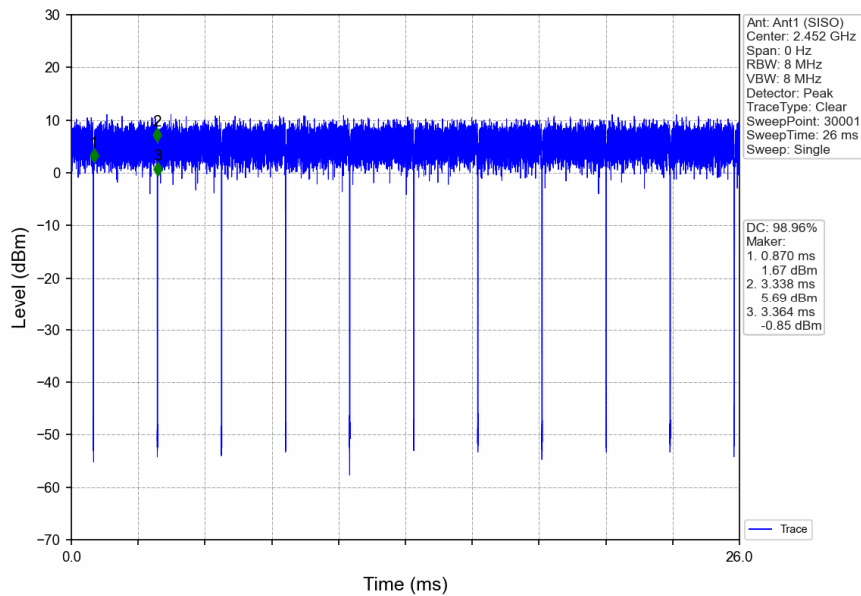
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

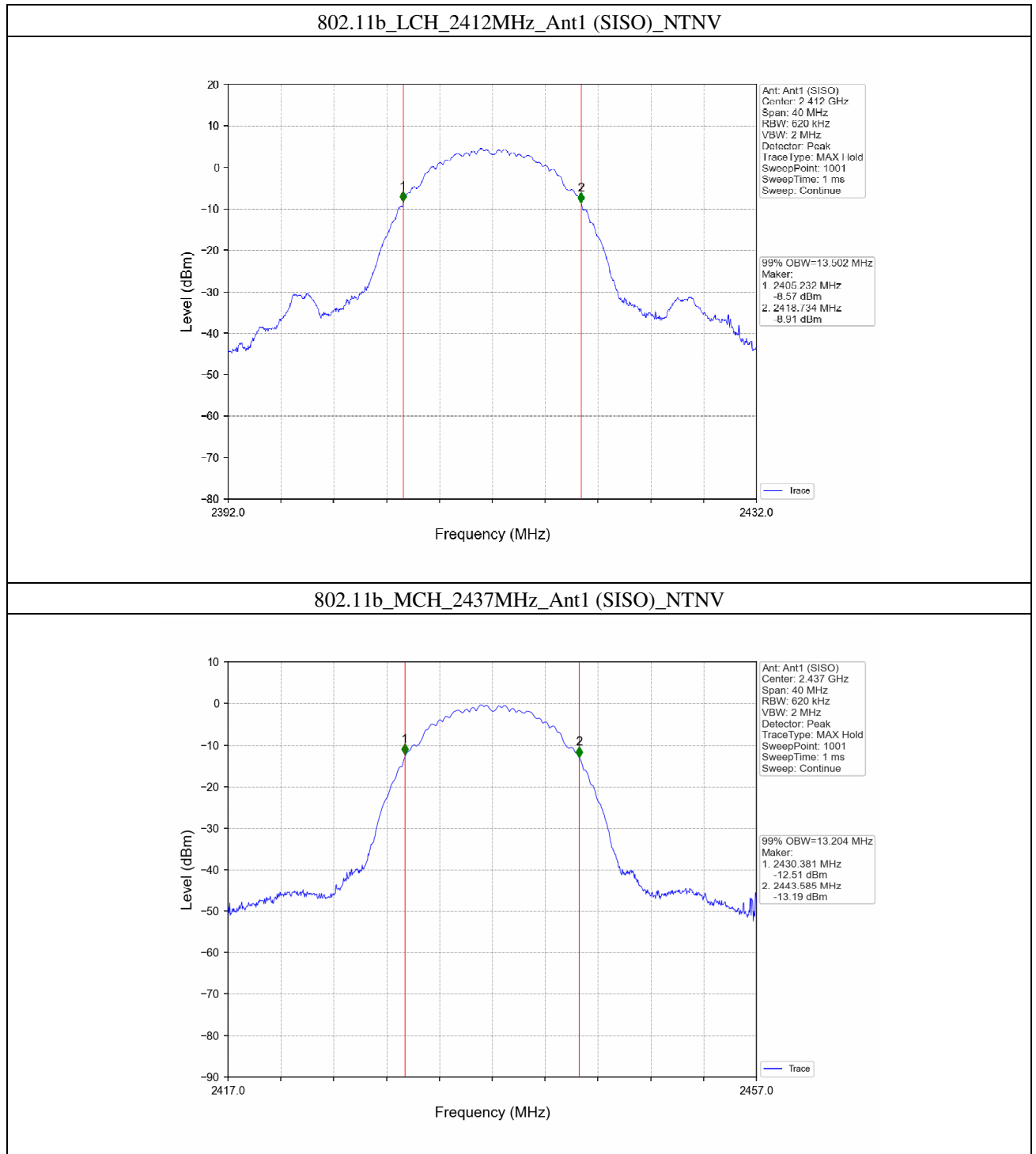
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.502	Pass
		2437	1	13.204	Pass
		2462	1	13.156	Pass
802.11g	SISO	2412	1	18.514	Pass
		2437	1	18.552	Pass
		2462	1	18.534	Pass
802.11n (HT20)	SISO	2412	1	19.204	Pass
		2437	1	19.182	Pass
		2462	1	19.175	Pass
802.11n (HT40)	SISO	2422	1	34.712	Pass
		2437	1	34.736	Pass
		2452	1	34.749	Pass



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2.1.2 Test Graph



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