

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 6.6

Measurement Distance: 3m

Limit:

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

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 53.6 % RH

Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation



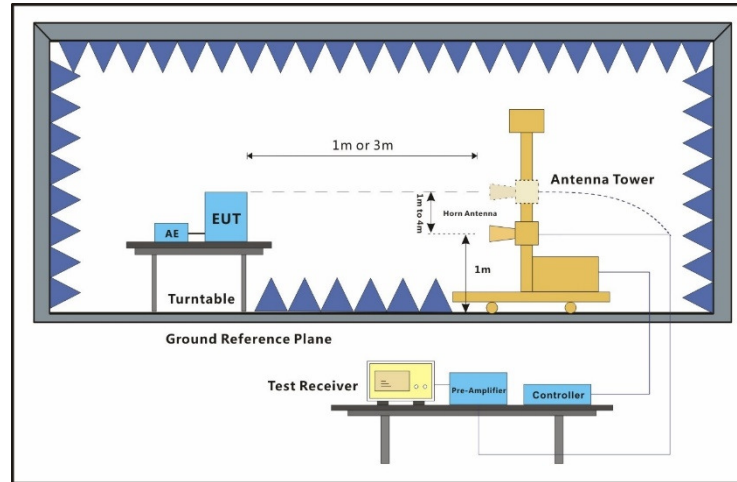
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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch EMC Laboratory

No.198 Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
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

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.

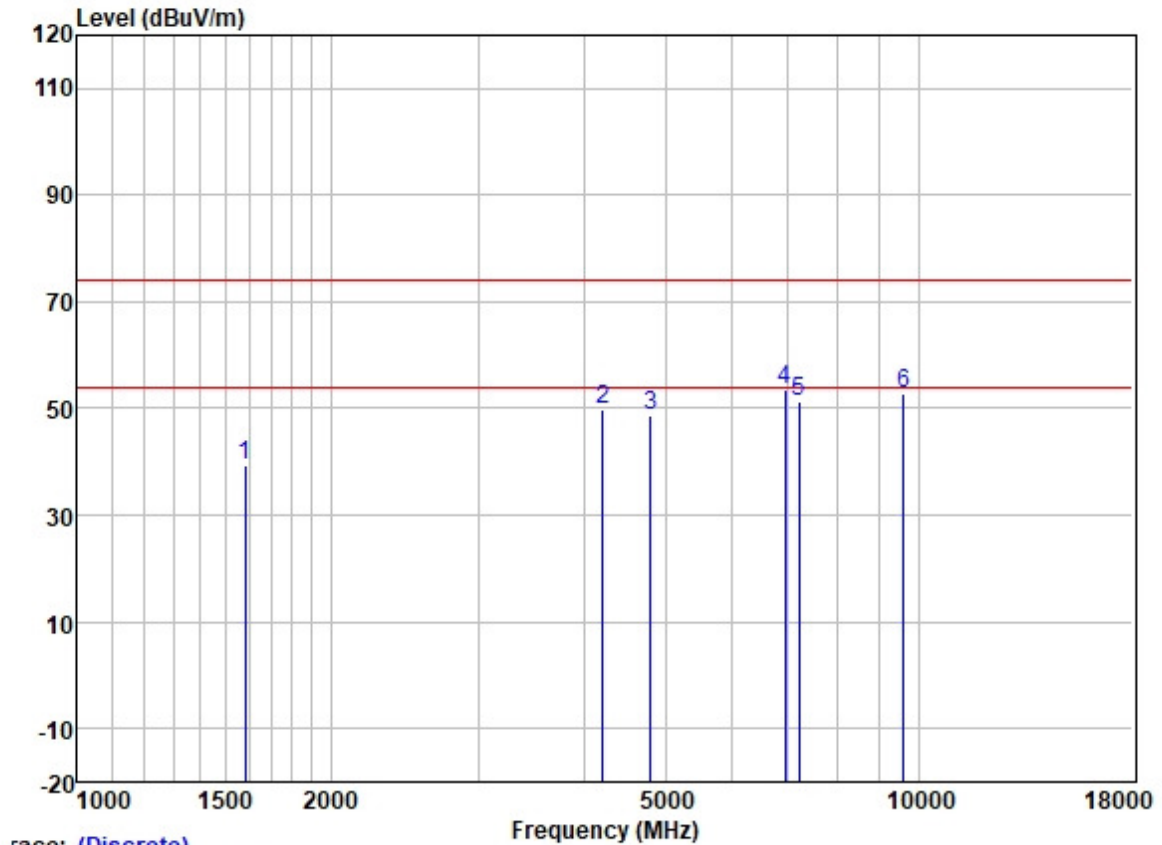
3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only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



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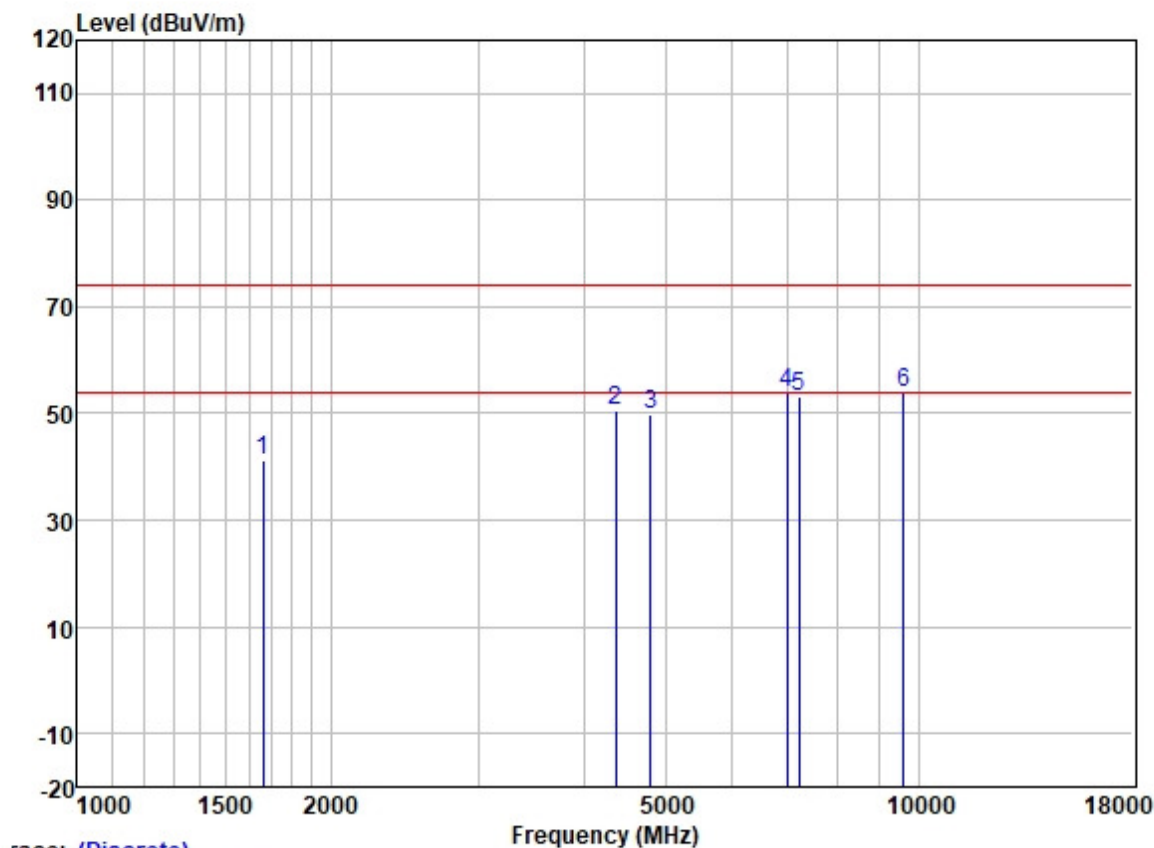
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Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: Low



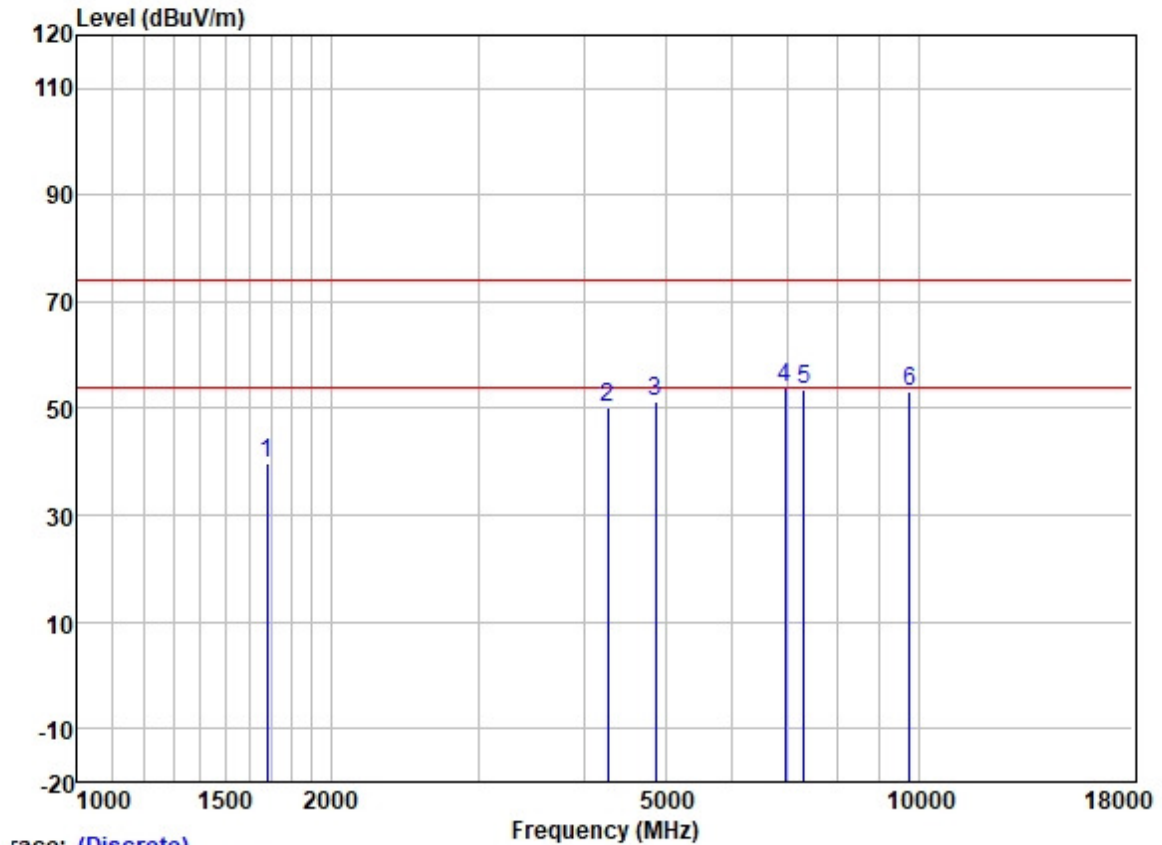
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1583.392	48.89	25.56	2.80	38.00	39.25	74.00	-34.75	HORIZONTAL	Peak
2	4218.186	51.81	30.22	4.60	36.81	49.82	74.00	-24.18	HORIZONTAL	Peak
3	4807.000	48.62	31.42	5.40	36.83	48.61	74.00	-25.39	HORIZONTAL	Peak
4	6934.778	50.01	34.92	5.81	37.19	53.55	74.00	-20.45	HORIZONTAL	Peak
5	7210.500	47.32	35.54	5.98	37.38	51.46	74.00	-22.54	HORIZONTAL	Peak
6	9614.000	44.96	38.37	7.07	37.42	52.98	74.00	-21.02	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	50.87	25.65	2.80	37.91	41.41	74.00	-32.59	VERTICAL	Peak
2	4367.058	52.16	30.62	4.68	36.81	50.65	74.00	-23.35	VERTICAL	Peak
3	4807.000	49.84	31.42	5.40	36.83	49.83	74.00	-24.17	VERTICAL	Peak
4	6974.982	50.24	34.97	5.81	37.23	53.79	74.00	-20.21	VERTICAL	Peak
5	7210.500	49.19	35.54	5.98	37.38	53.33	74.00	-20.67	VERTICAL	Peak
6	9614.000	45.75	38.37	7.07	37.42	53.77	74.00	-20.23	VERTICAL	Peak

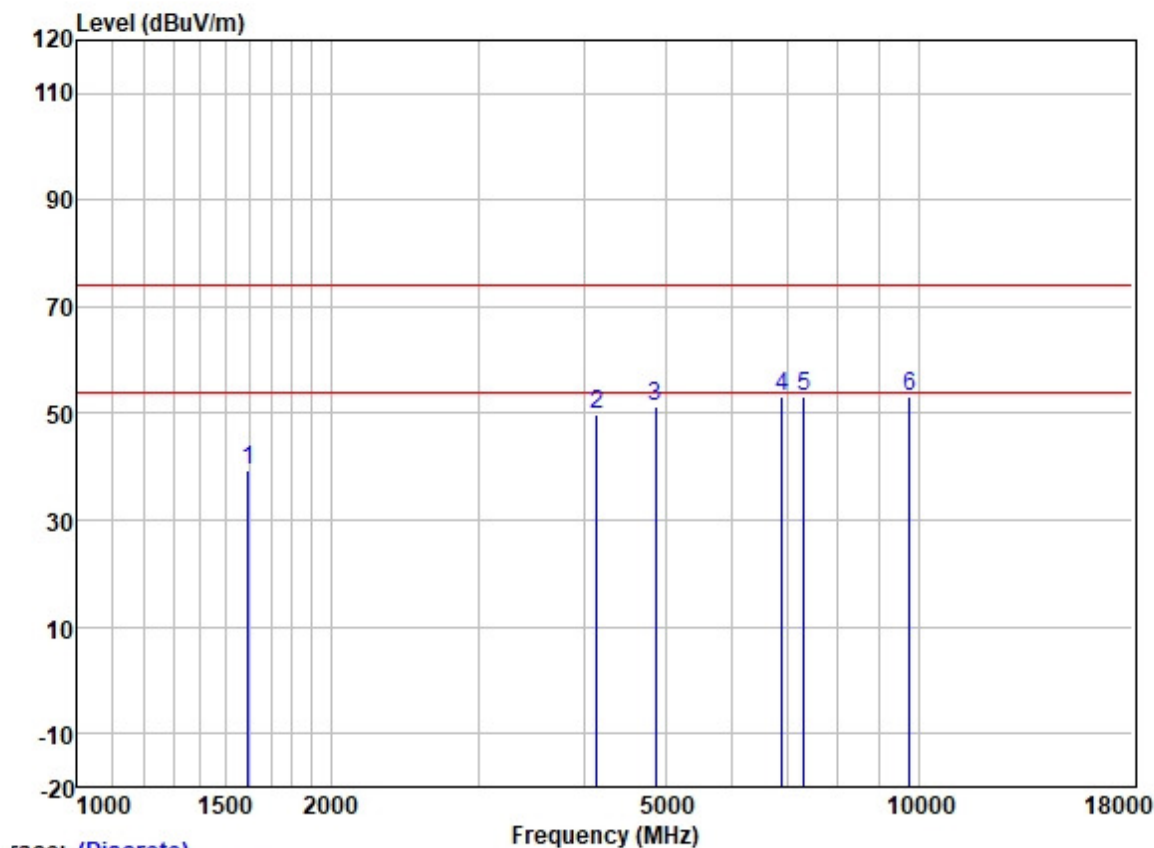
Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



race: (Discrete)

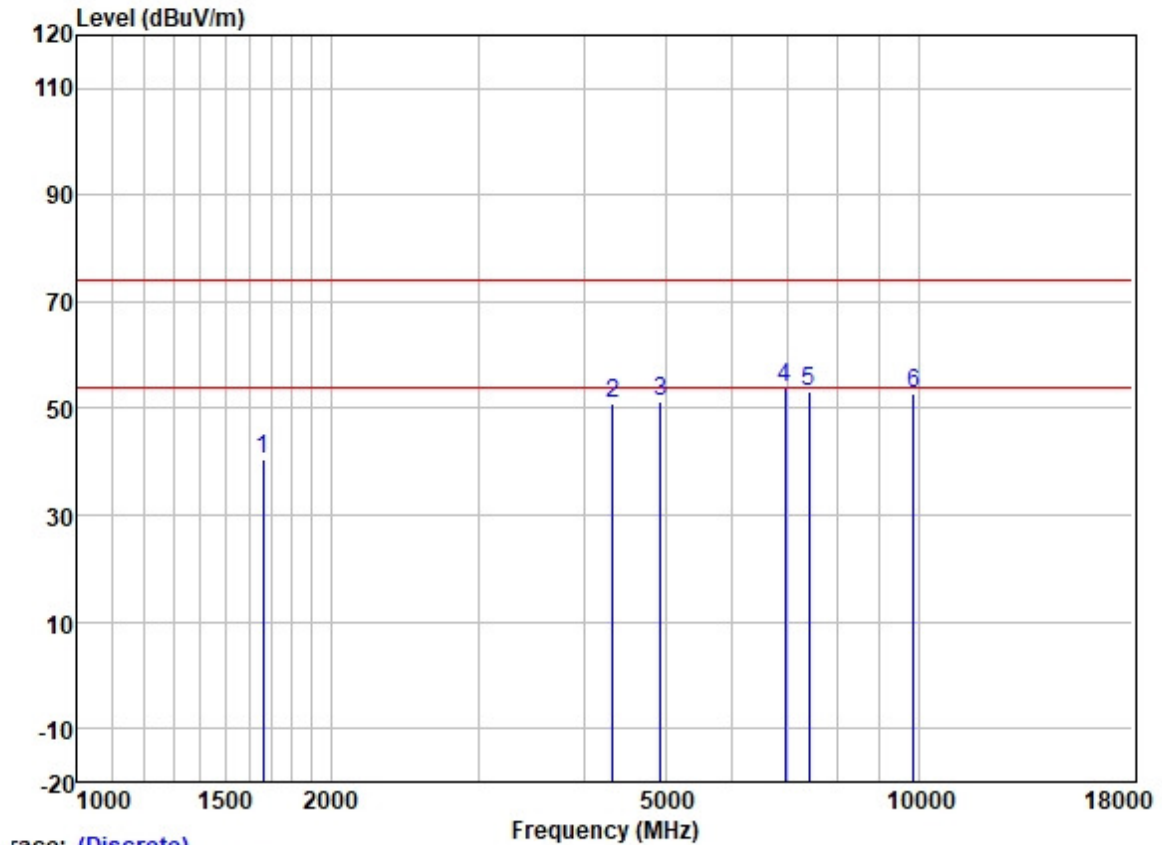
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	49.17	25.68	2.80	37.91	39.74	74.00	-34.26	HORIZONTAL	Peak
2	4267.237	52.14	30.38	4.63	36.81	50.34	74.00	-23.66	HORIZONTAL	Peak
3	4875.000	51.10	31.54	5.50	36.84	51.30	74.00	-22.70	HORIZONTAL	Peak
4	6934.778	50.36	34.92	5.81	37.19	53.90	74.00	-20.10	HORIZONTAL	Peak
5	7312.500	48.81	35.93	6.11	37.42	53.43	74.00	-20.57	HORIZONTAL	Peak
6	9750.000	45.20	38.50	7.02	37.41	53.31	74.00	-20.69	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: Middle



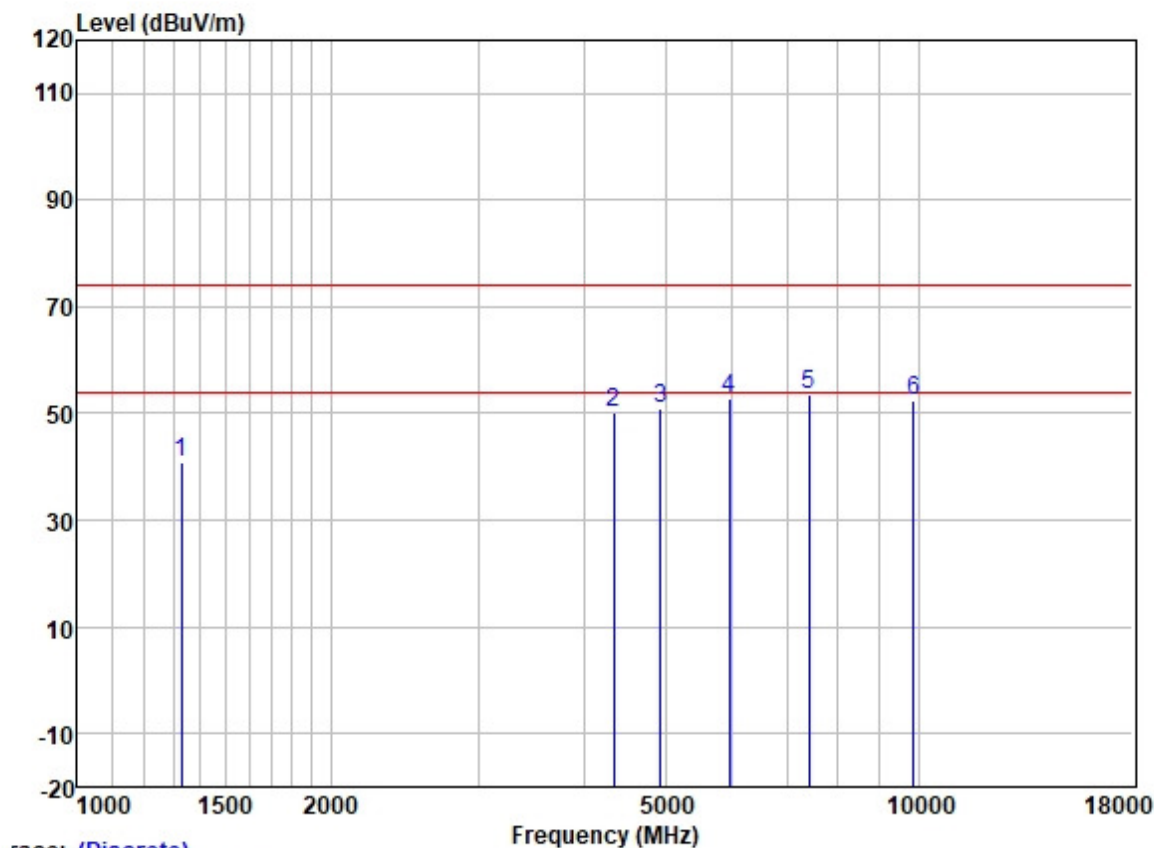
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1597.181	48.94	25.58	2.80	37.98	39.34	74.00	-34.66	VERTICAL	Peak
2	4145.664	51.80	30.03	4.60	36.80	49.63	74.00	-24.37	VERTICAL	Peak
3	4875.000	51.12	31.54	5.50	36.84	51.32	74.00	-22.68	VERTICAL	Peak
4	6874.906	49.73	34.82	5.82	37.16	53.21	74.00	-20.79	VERTICAL	Peak
5	7312.500	48.71	35.93	6.11	37.42	53.33	74.00	-20.67	VERTICAL	Peak
6	9750.000	45.11	38.50	7.02	37.41	53.22	74.00	-20.78	VERTICAL	Peak

Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: High



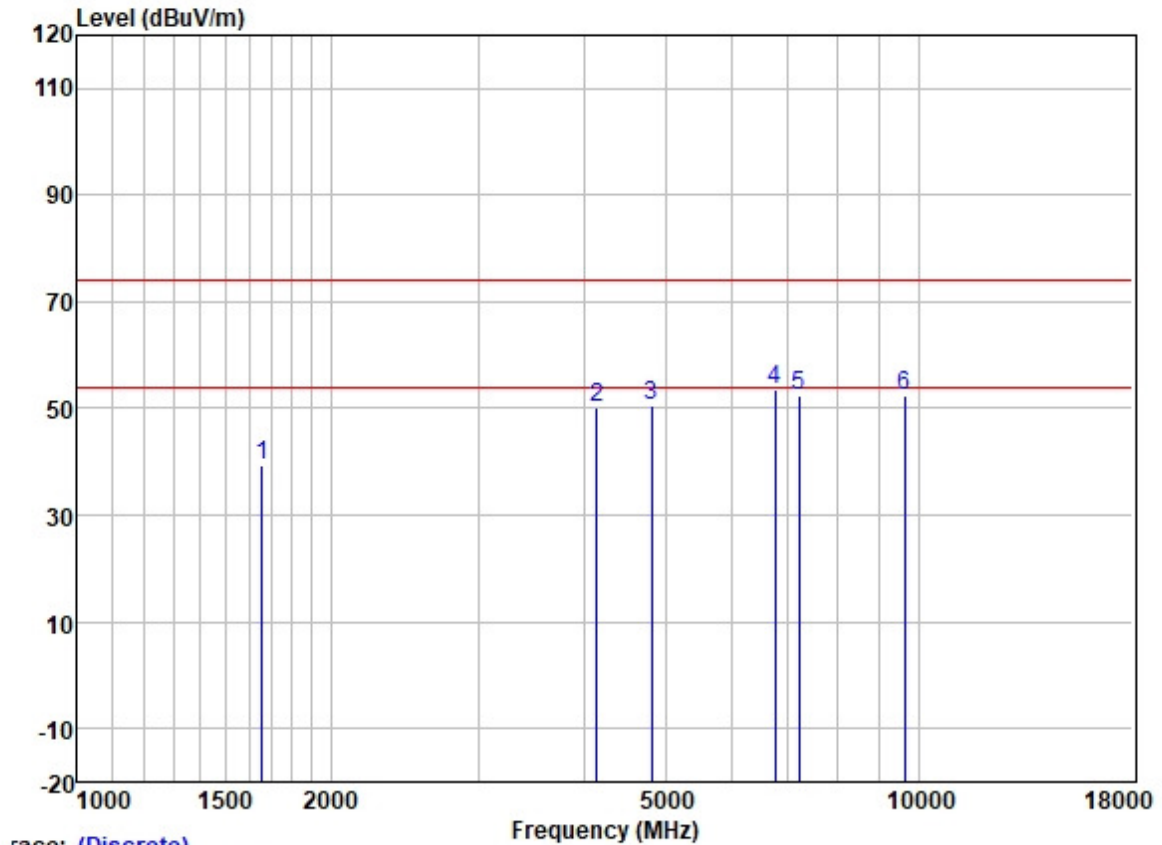
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	49.91	25.65	2.80	37.91	40.45	74.00	-33.55	HORIZONTAL	Peak
2	4329.354	52.51	30.54	4.67	36.81	50.91	74.00	-23.09	HORIZONTAL	Peak
3	4939.000	50.88	31.64	5.62	36.84	51.30	74.00	-22.70	HORIZONTAL	Peak
4	6934.778	50.33	34.92	5.81	37.19	53.87	74.00	-20.13	HORIZONTAL	Peak
5	7408.500	48.07	36.22	6.20	37.46	53.03	74.00	-20.97	HORIZONTAL	Peak
6	9878.000	44.50	38.60	6.98	37.41	52.67	74.00	-21.33	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: High



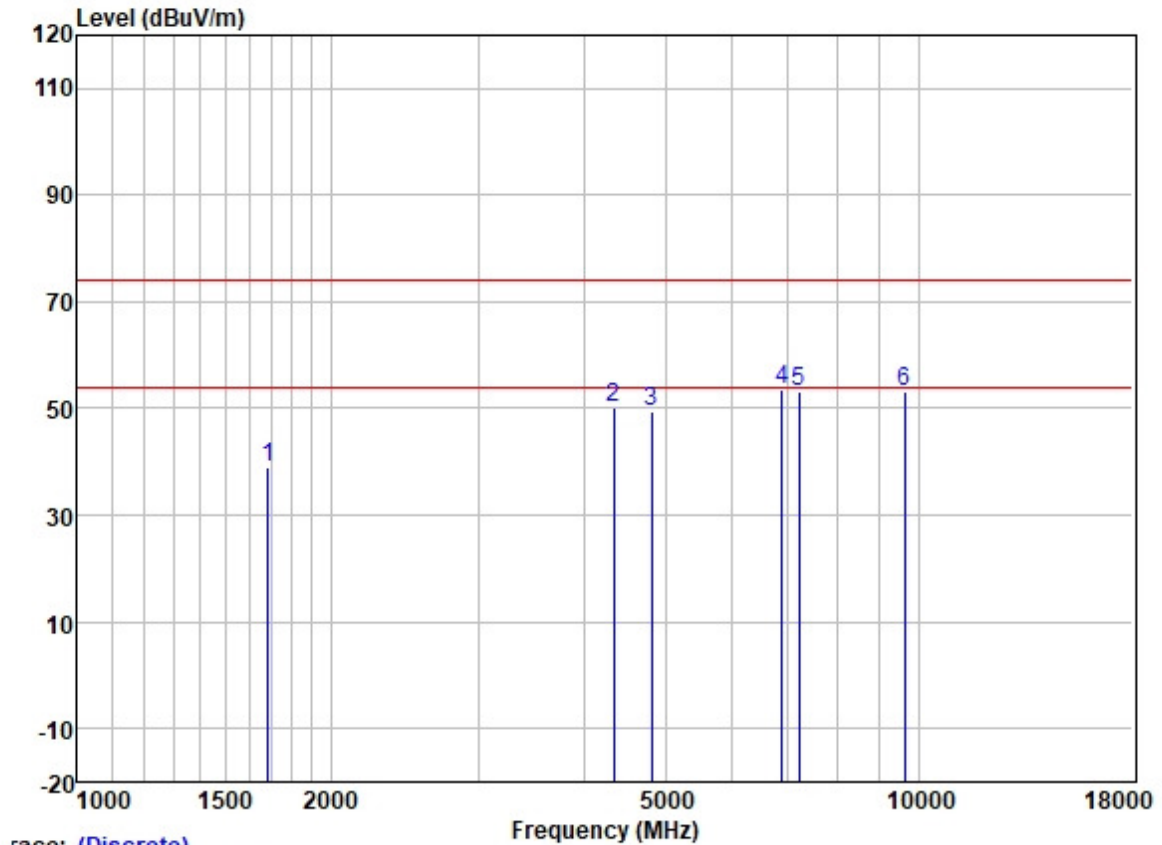
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1331.288	51.13	25.28	2.60	38.29	40.72	74.00	-33.28	VERTICAL	Peak
2	4341.886	51.84	30.57	4.67	36.81	50.27	74.00	-23.73	VERTICAL	Peak
3	4939.000	50.54	31.64	5.62	36.84	50.96	74.00	-23.04	VERTICAL	Peak
4	5949.811	51.40	32.36	6.05	36.90	52.91	74.00	-21.09	VERTICAL	Peak
5	7408.500	48.75	36.22	6.20	37.46	53.71	74.00	-20.29	VERTICAL	Peak
6	9878.000	44.12	38.60	6.98	37.41	52.29	74.00	-21.71	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: Low



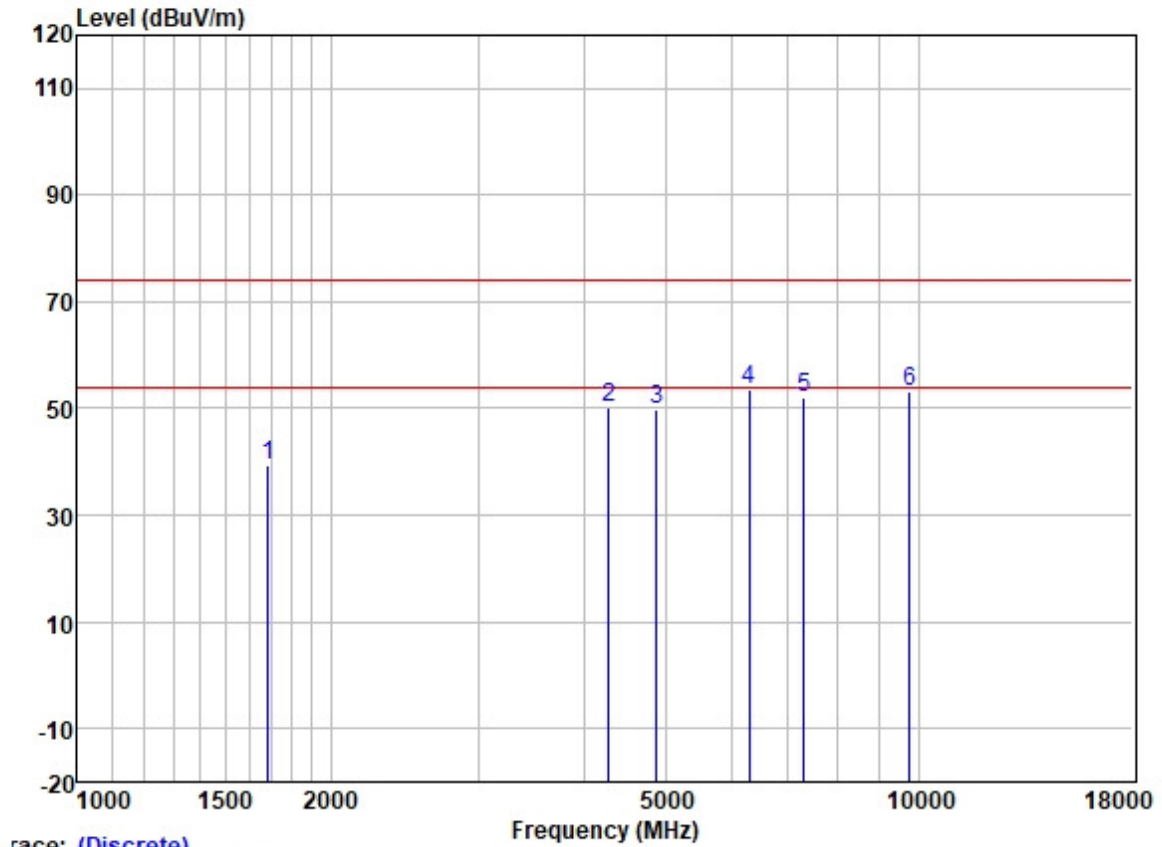
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	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1658.337	48.90	25.65	2.80	37.93	39.42	74.00	-34.58	HORIZONTAL Peak
2	4145.664	52.38	30.03	4.60	36.80	50.21	74.00	-23.79	HORIZONTAL Peak
3	4811.000	50.45	31.42	5.40	36.83	50.44	74.00	-23.56	HORIZONTAL Peak
4	6756.708	50.21	34.56	5.82	37.10	53.49	74.00	-20.51	HORIZONTAL Peak
5	7216.500	48.17	35.62	6.01	37.39	52.41	74.00	-21.59	HORIZONTAL Peak
6	9622.000	44.59	38.37	7.07	37.42	52.61	74.00	-21.39	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: Low



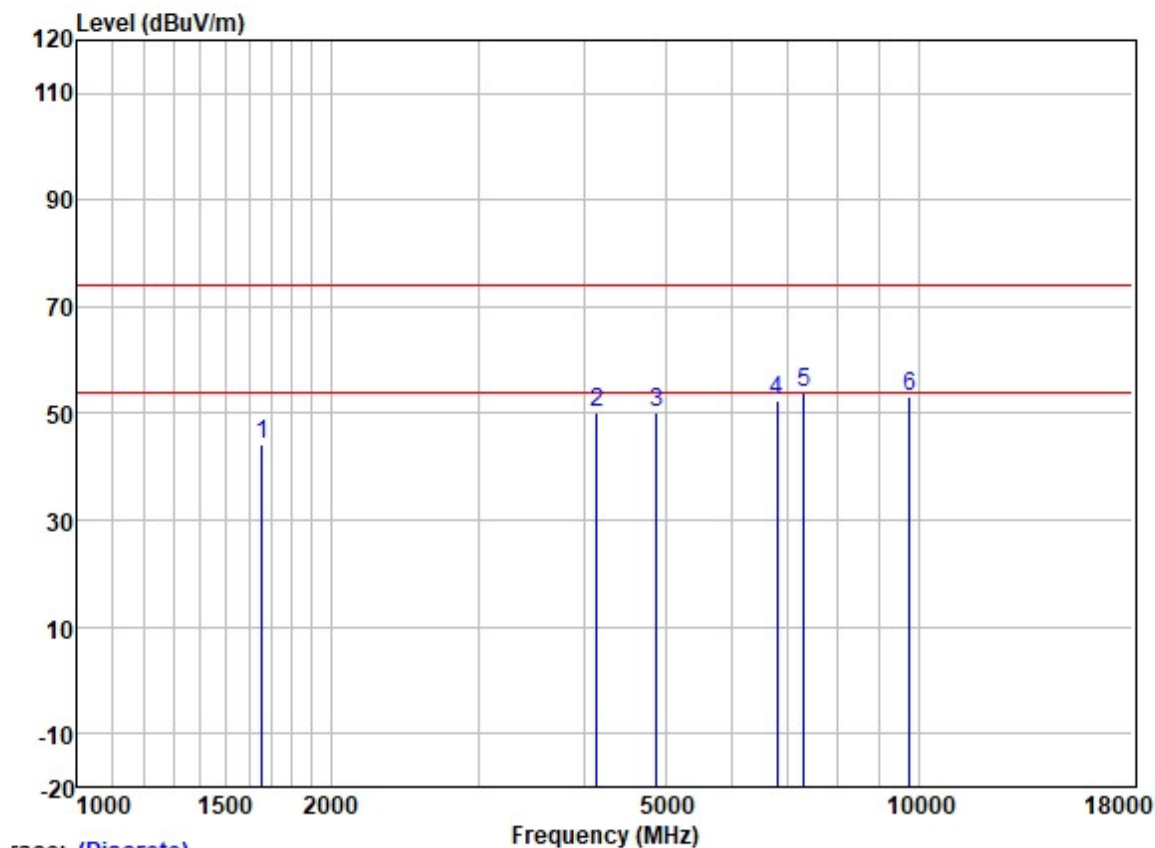
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	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	48.48	25.69	2.80	37.91	39.06	74.00	-34.94	VERTICAL	Peak
2	4341.886	51.70	30.57	4.67	36.81	50.13	74.00	-23.87	VERTICAL	Peak
3	4811.000	49.48	31.42	5.40	36.83	49.47	74.00	-24.53	VERTICAL	Peak
4	6874.906	50.23	34.82	5.82	37.16	53.71	74.00	-20.29	VERTICAL	Peak
5	7216.500	49.04	35.62	6.01	37.39	53.28	74.00	-20.72	VERTICAL	Peak
6	9622.000	45.29	38.37	7.07	37.42	53.31	74.00	-20.69	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



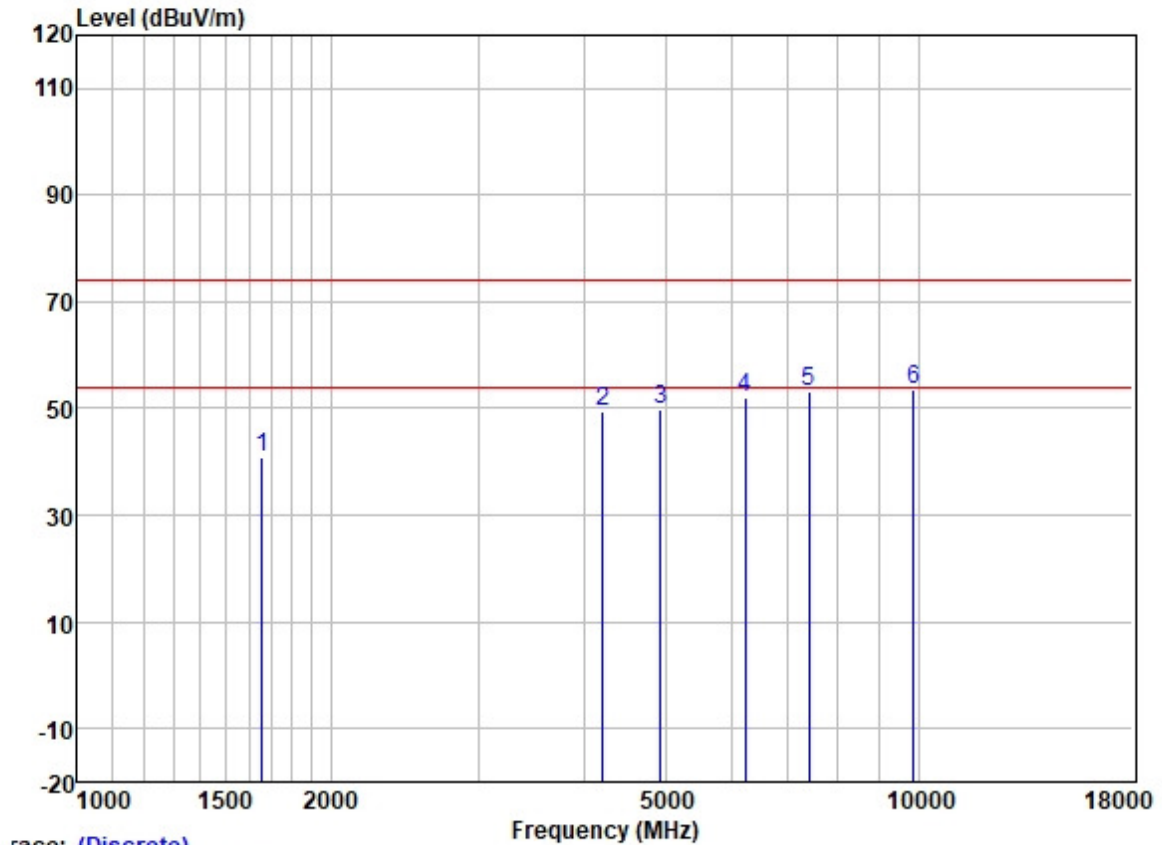
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	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1687.347	48.66	25.69	2.80	37.91	39.24	74.00	-34.76	HORIZONTAL Peak
2	4279.589	51.85	30.42	4.63	36.81	50.09	74.00	-23.91	HORIZONTAL Peak
3	4877.000	49.79	31.54	5.50	36.84	49.99	74.00	-24.01	HORIZONTAL Peak
4	6285.695	51.23	33.37	5.98	36.95	53.63	74.00	-20.37	HORIZONTAL Peak
5	7315.500	47.61	35.93	6.11	37.43	52.22	74.00	-21.78	HORIZONTAL Peak
6	9754.000	45.24	38.50	7.02	37.41	53.35	74.00	-20.65	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: Middle



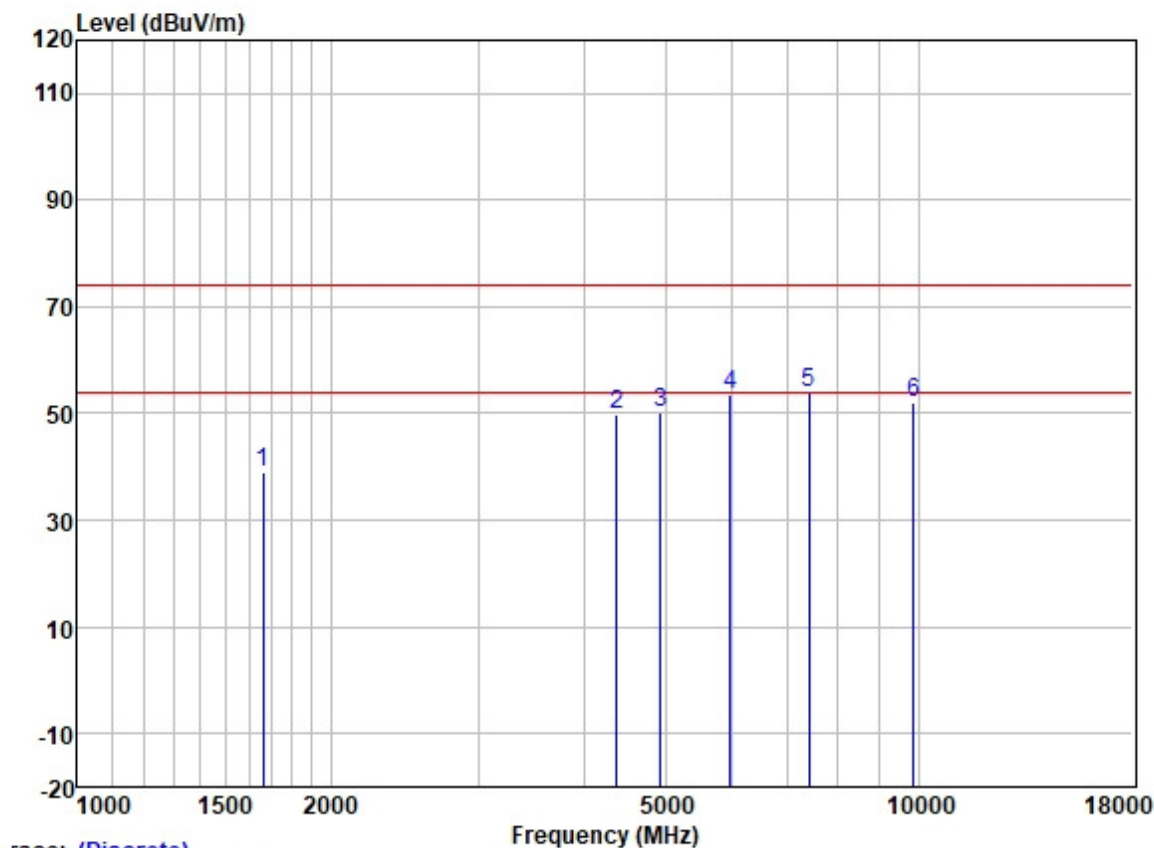
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	53.75	25.65	2.80	37.93	44.27	74.00	-29.73	VERTICAL	Peak
2	4145.664	52.38	30.03	4.60	36.80	50.21	74.00	-23.79	VERTICAL	Peak
3	4877.000	49.94	31.54	5.50	36.84	50.14	74.00	-23.86	VERTICAL	Peak
4	6795.879	49.09	34.66	5.82	37.12	52.45	74.00	-21.55	VERTICAL	Peak
5	7315.500	49.27	35.93	6.11	37.43	53.88	74.00	-20.12	VERTICAL	Peak
6	9754.000	45.04	38.50	7.02	37.41	53.15	74.00	-20.85	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: High



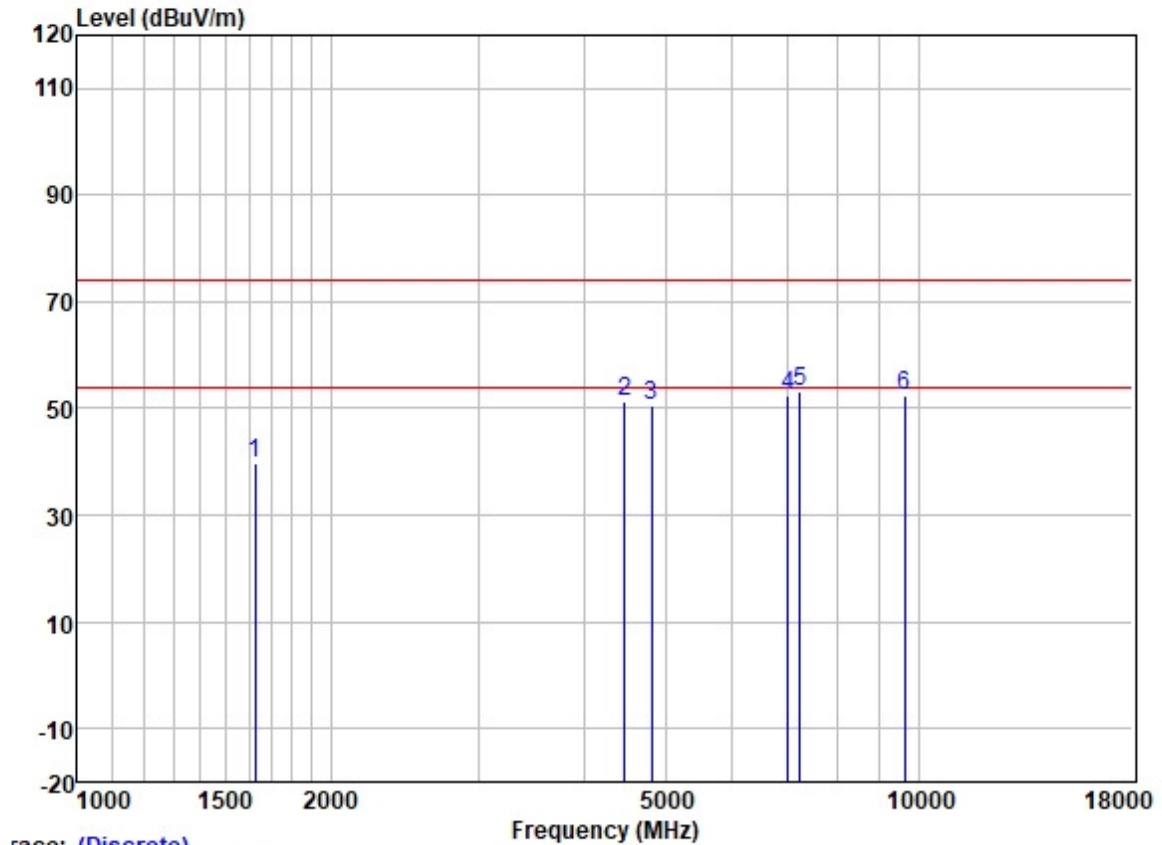
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	1658.337	50.30	25.65	2.80	37.93	40.82	74.00	-33.18	HORIZONTAL Peak
2	4218.186	51.59	30.22	4.60	36.81	49.60	74.00	-24.40	HORIZONTAL Peak
3	4937.000	49.37	31.62	5.60	36.84	49.75	74.00	-24.25	HORIZONTAL Peak
4	6231.427	50.01	33.11	6.04	36.94	52.22	74.00	-21.78	HORIZONTAL Peak
5	7405.500	48.28	36.22	6.20	37.46	53.24	74.00	-20.76	HORIZONTAL Peak
6	9874.000	45.26	38.60	6.98	37.41	53.43	74.00	-20.57	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: High



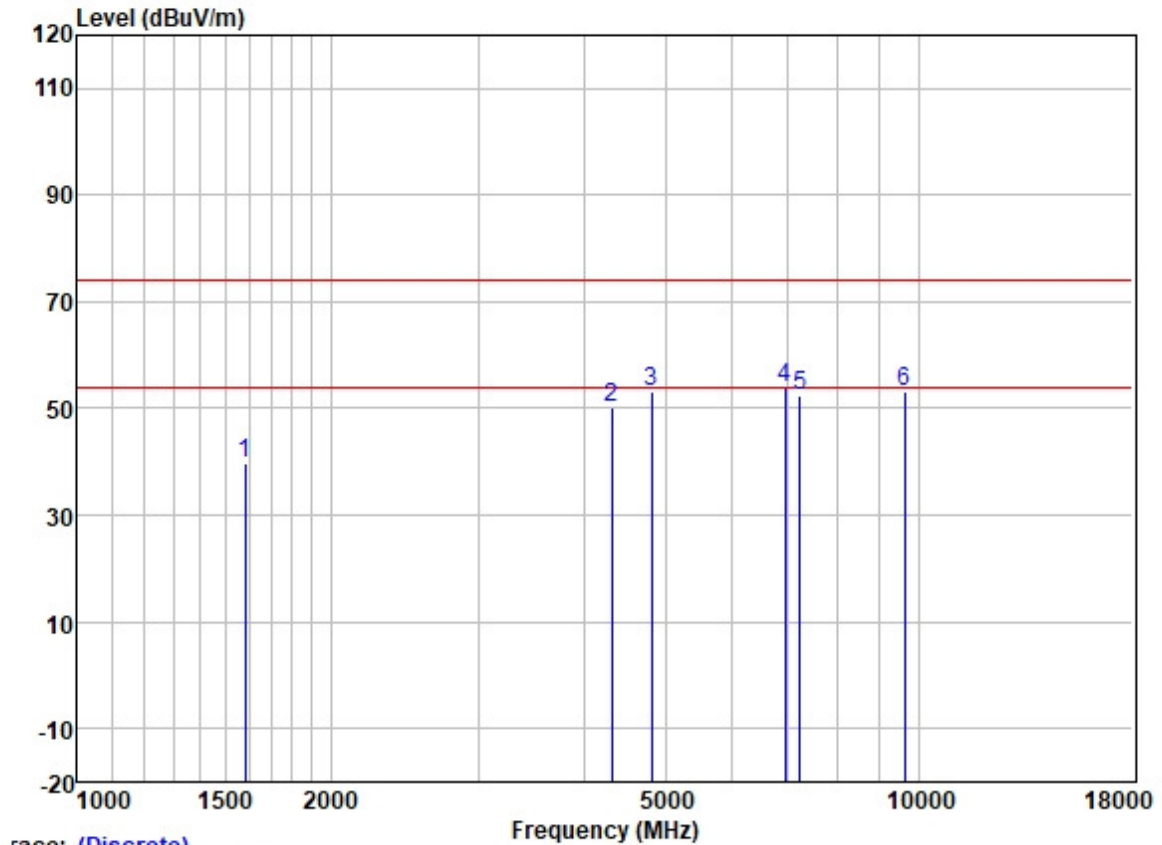
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	48.56	25.65	2.80	37.91	39.10	74.00	-34.90	VERTICAL	Peak
2	4379.699	51.32	30.64	4.69	36.81	49.84	74.00	-24.16	VERTICAL	Peak
3	4937.000	49.73	31.62	5.60	36.84	50.11	74.00	-23.89	VERTICAL	Peak
4	5967.033	52.16	32.37	6.10	36.90	53.73	74.00	-20.27	VERTICAL	Peak
5	7405.500	48.94	36.22	6.20	37.46	53.90	74.00	-20.10	VERTICAL	Peak
6	9874.000	44.02	38.60	6.98	37.41	52.19	74.00	-21.81	VERTICAL	Peak

Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: Low



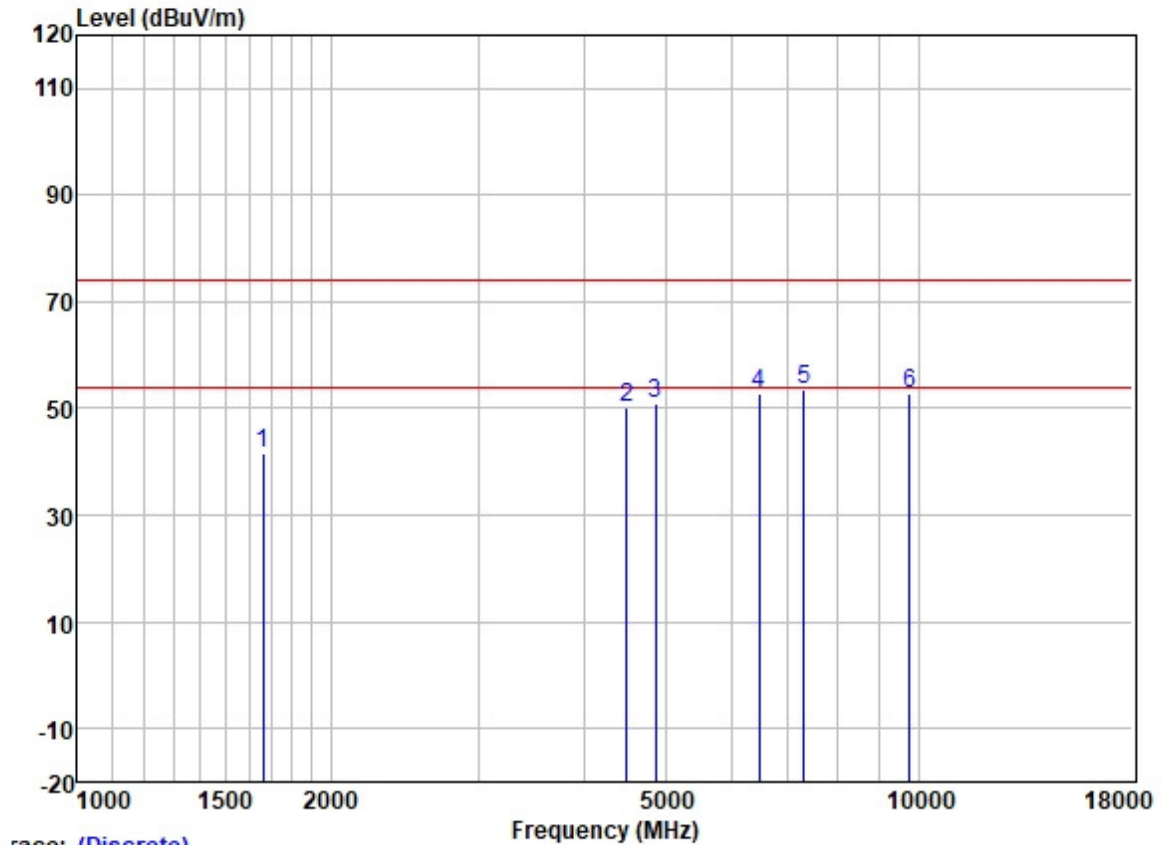
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1625.121	49.18	25.61	2.80	37.95	39.64	74.00	-34.36	HORIZONTAL	Peak
2	4469.214	52.58	30.77	4.93	36.81	51.47	74.00	-22.53	HORIZONTAL	Peak
3	4815.000	50.48	31.45	5.42	36.83	50.52	74.00	-23.48	HORIZONTAL	Peak
4	6995.172	48.73	35.00	5.81	37.25	52.29	74.00	-21.71	HORIZONTAL	Peak
5	7222.500	48.88	35.62	6.01	37.39	53.12	74.00	-20.88	HORIZONTAL	Peak
6	9630.000	44.50	38.40	7.06	37.42	52.54	74.00	-21.46	HORIZONTAL	Peak

Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: Low



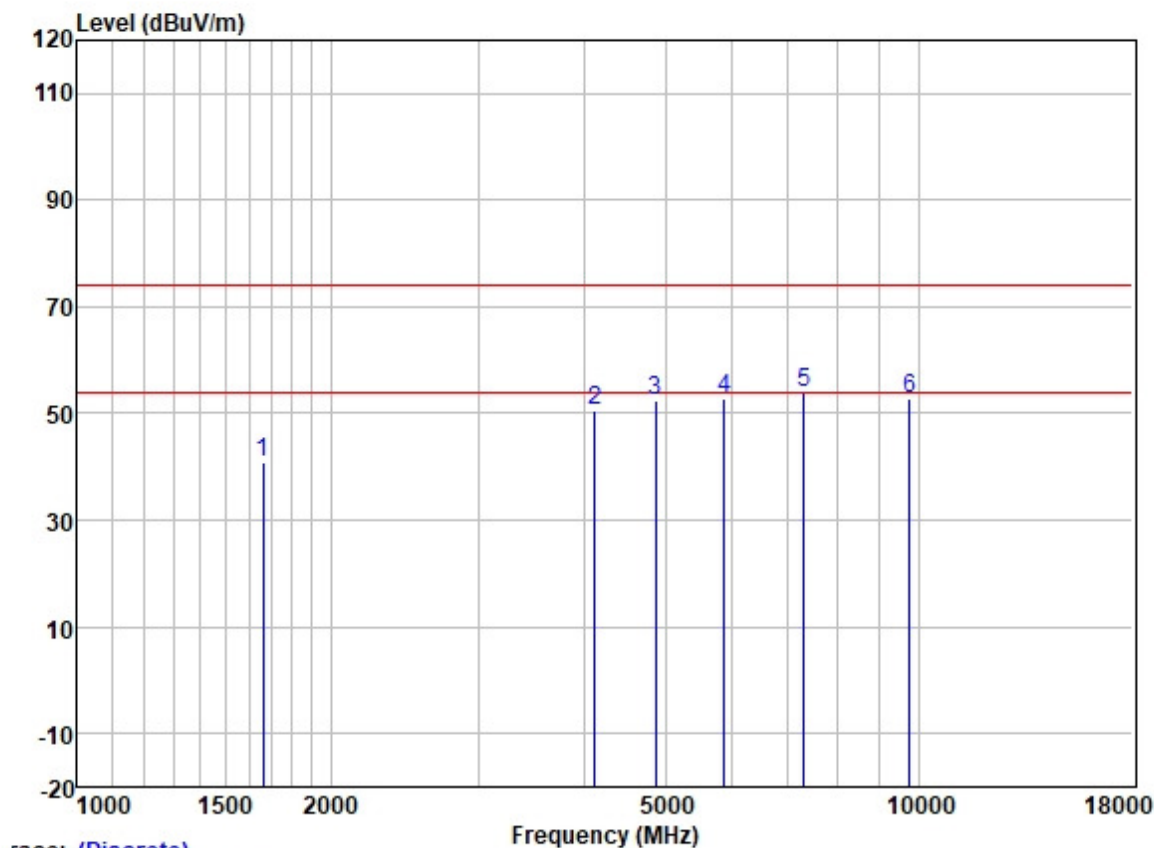
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1583.392	49.45	25.56	2.80	38.00	39.81	74.00	-34.19	VERTICAL	Peak
2	4316.859	51.80	30.51	4.66	36.81	50.16	74.00	-23.84	VERTICAL	Peak
3	4815.000	53.01	31.45	5.42	36.83	53.05	74.00	-20.95	VERTICAL	Peak
4	6934.778	50.24	34.92	5.81	37.19	53.78	74.00	-20.22	VERTICAL	Peak
5	7222.500	48.15	35.62	6.01	37.39	52.39	74.00	-21.61	VERTICAL	Peak
6	9630.000	45.10	38.40	7.06	37.42	53.14	74.00	-20.86	VERTICAL	Peak

Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



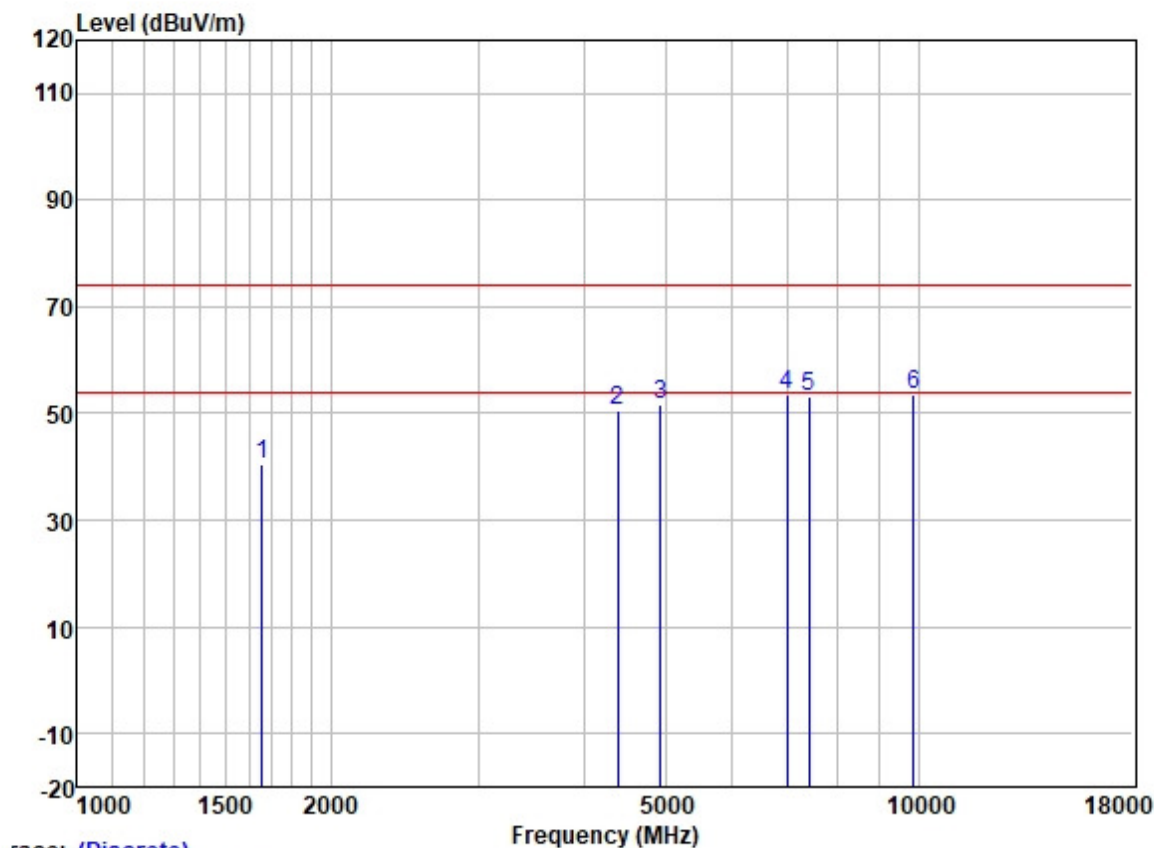
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1663.137	51.24	25.65	2.80	37.91	41.78	74.00	-32.22	HORIZONTAL Peak
2	4495.125	51.22	30.80	5.05	36.82	50.25	74.00	-23.75	HORIZONTAL Peak
3	4875.000	50.56	31.54	5.50	36.84	50.76	74.00	-23.24	HORIZONTAL Peak
4	6470.026	50.04	33.92	5.86	37.00	52.82	74.00	-21.18	HORIZONTAL Peak
5	7312.500	48.82	35.93	6.11	37.42	53.44	74.00	-20.56	HORIZONTAL Peak
6	9750.000	44.74	38.50	7.02	37.41	52.85	74.00	-21.15	HORIZONTAL Peak

Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: Middle



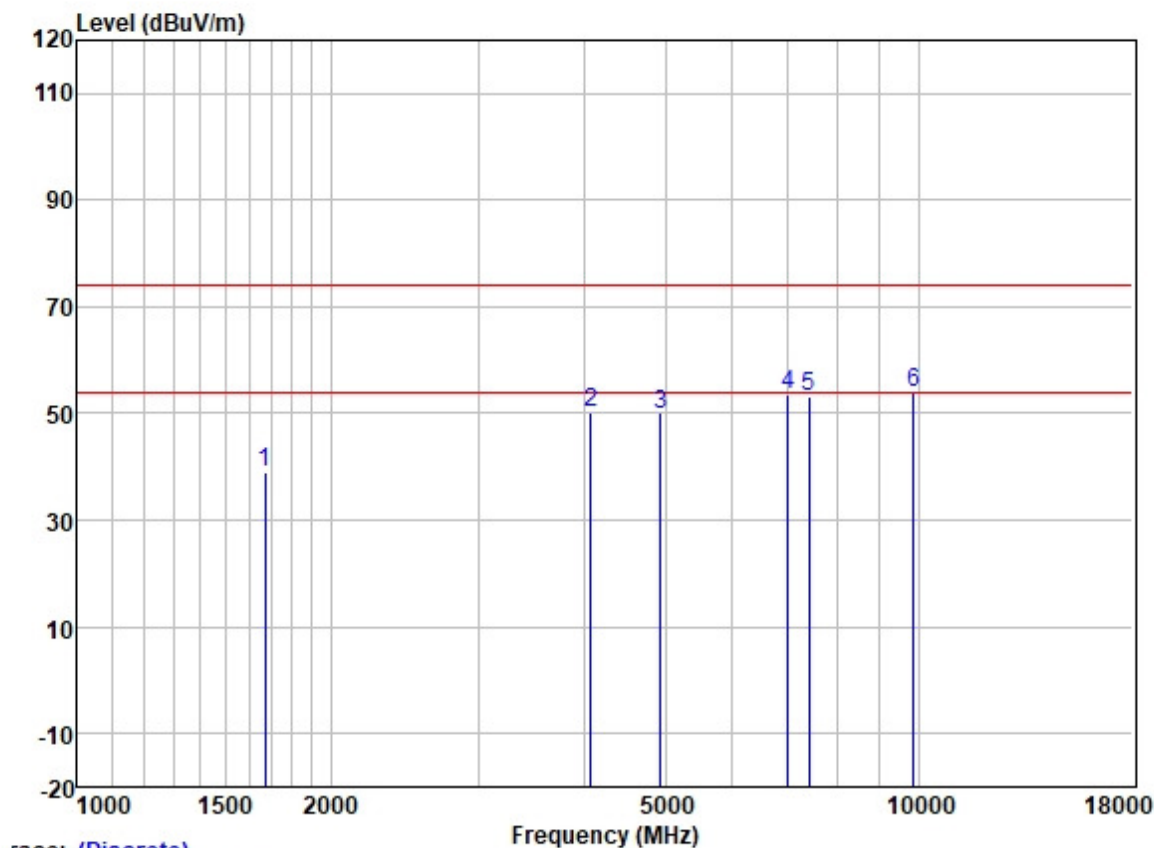
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	50.44	25.65	2.80	37.91	40.98	74.00	-33.02	VERTICAL	Peak
2	4121.768	52.90	29.98	4.60	36.80	50.68	74.00	-23.32	VERTICAL	Peak
3	4875.000	52.30	31.54	5.50	36.84	52.50	74.00	-21.50	VERTICAL	Peak
4	5881.418	51.51	32.29	5.93	36.90	52.83	74.00	-21.17	VERTICAL	Peak
5	7312.500	49.24	35.93	6.11	37.42	53.86	74.00	-20.14	VERTICAL	Peak
6	9750.000	44.81	38.50	7.02	37.41	52.92	74.00	-21.08	VERTICAL	Peak

Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: High



		ReadAntenna		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	1658.337	49.92	25.65	2.80	37.93	40.44	74.00	-33.56	HORIZONTAL	Peak
2	4392.376	52.02	30.66	4.70	36.81	50.57	74.00	-23.43	HORIZONTAL	Peak
3	4935.000	51.40	31.62	5.60	36.84	51.78	74.00	-22.22	HORIZONTAL	Peak
4	6974.982	49.84	34.97	5.81	37.23	53.39	74.00	-20.61	HORIZONTAL	Peak
5	7402.500	48.16	36.22	6.20	37.46	53.12	74.00	-20.88	HORIZONTAL	Peak
6	9870.000	45.55	38.60	6.98	37.41	53.72	74.00	-20.28	HORIZONTAL	Peak

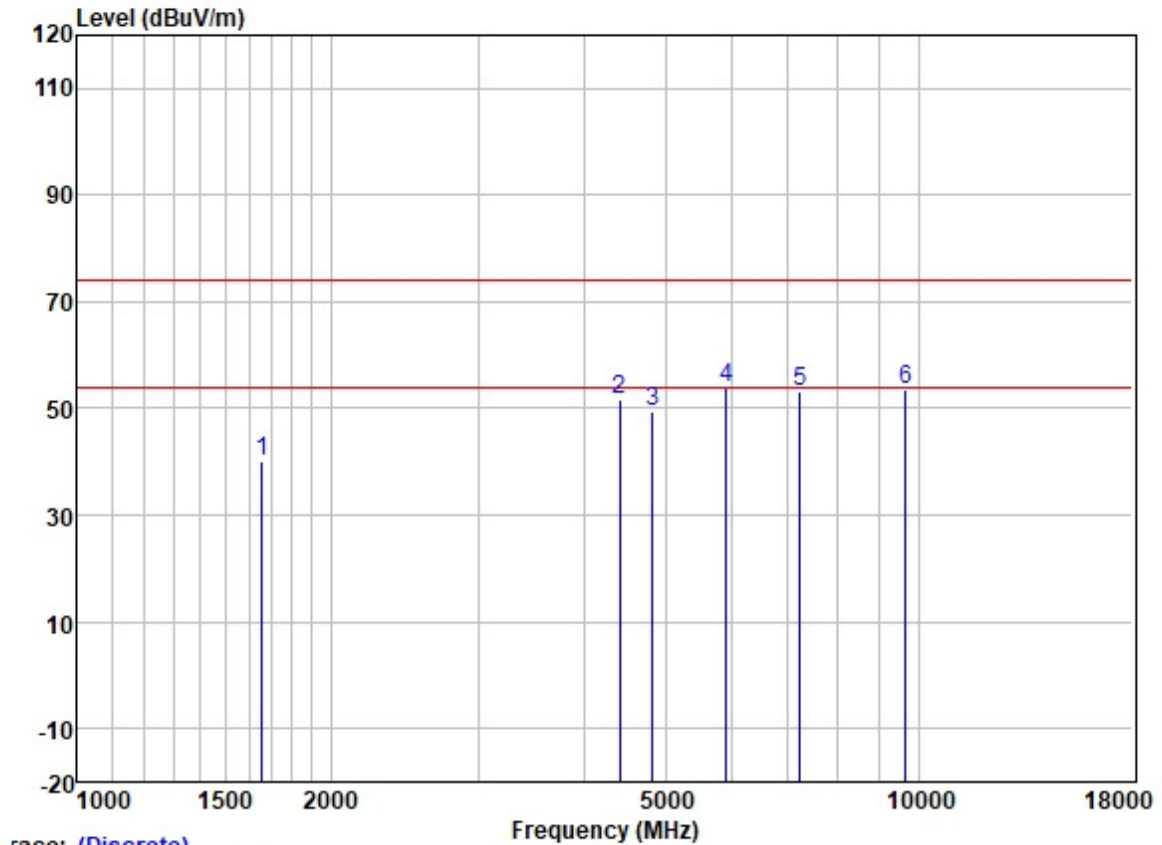
Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: High



race: (Discrete)

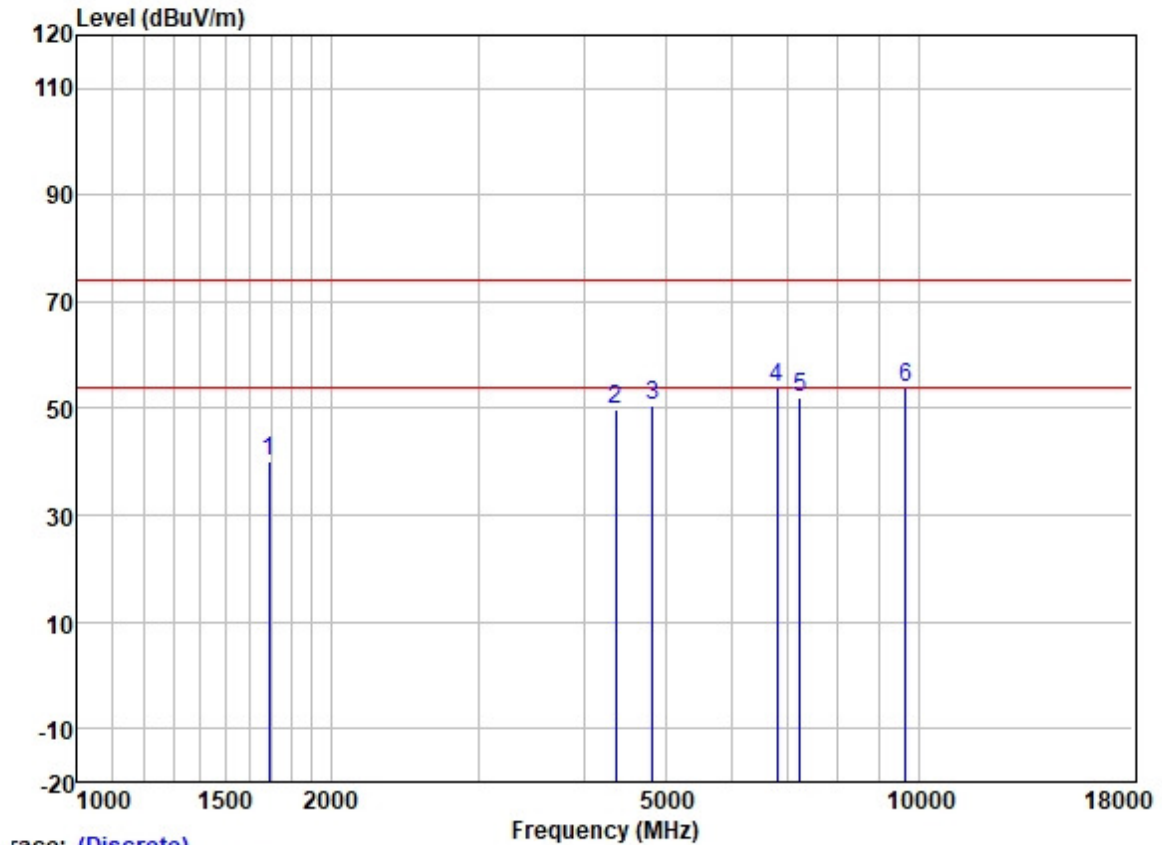
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	48.52	25.67	2.80	37.91	39.08	74.00	-34.92	VERTICAL	Peak
2	4074.388	52.32	29.90	4.60	36.80	50.02	74.00	-23.98	VERTICAL	Peak
3	4935.000	49.62	31.62	5.60	36.84	50.00	74.00	-24.00	VERTICAL	Peak
4	6995.172	50.03	35.00	5.81	37.25	53.59	74.00	-20.41	VERTICAL	Peak
5	7402.500	48.18	36.22	6.20	37.46	53.14	74.00	-20.86	VERTICAL	Peak
6	9870.000	45.72	38.60	6.98	37.41	53.89	74.00	-20.11	VERTICAL	Peak

Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: Low



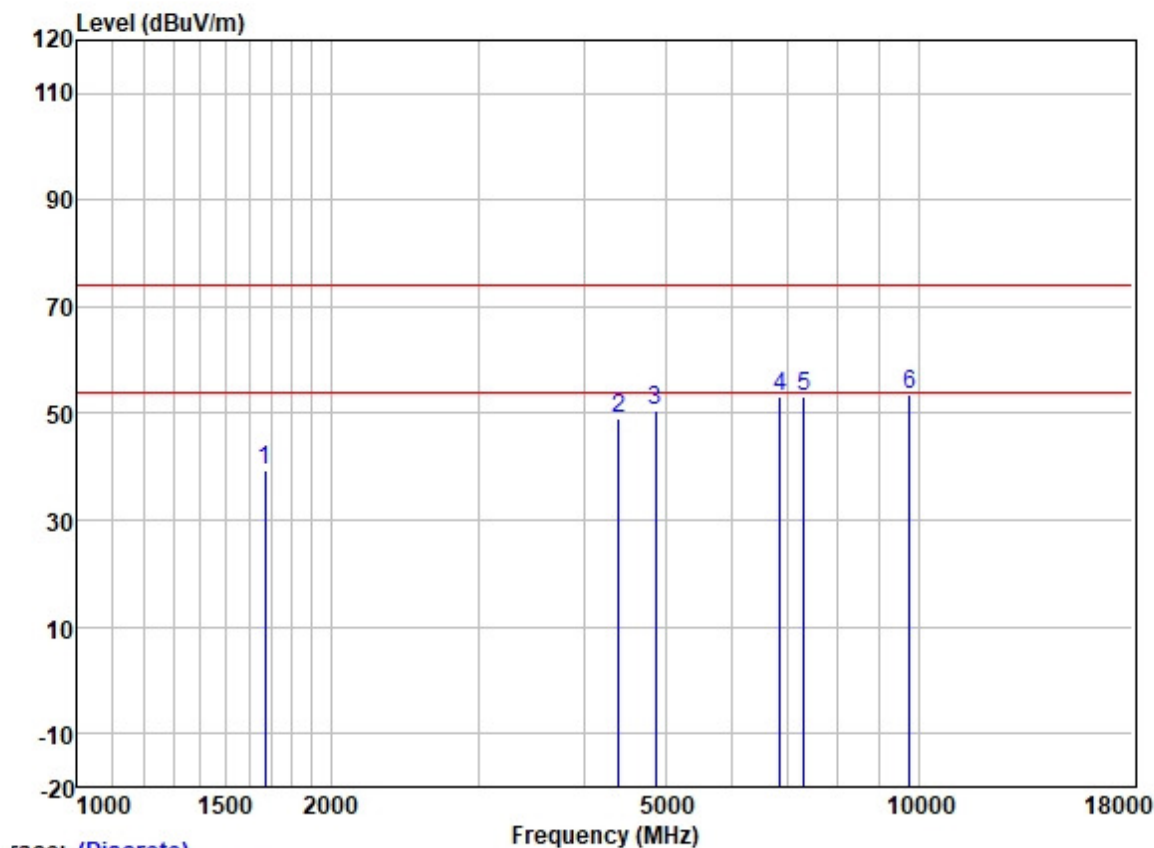
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	49.58	25.65	2.80	37.93	40.10	74.00	-33.90	HORIZONTAL Peak	
2	4417.841	53.03	30.70	4.74	36.81	51.66	74.00	-22.34	HORIZONTAL Peak	
3	4825.000	49.53	31.47	5.44	36.83	49.61	74.00	-24.39	HORIZONTAL Peak	
4	5915.516	52.41	32.33	5.95	36.90	53.79	74.00	-20.21	HORIZONTAL Peak	
5	7237.500	48.68	35.70	6.03	37.40	53.01	74.00	-20.99	HORIZONTAL Peak	
6	9650.000	45.33	38.40	7.06	37.42	53.37	74.00	-20.63	HORIZONTAL Peak	

Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: Low



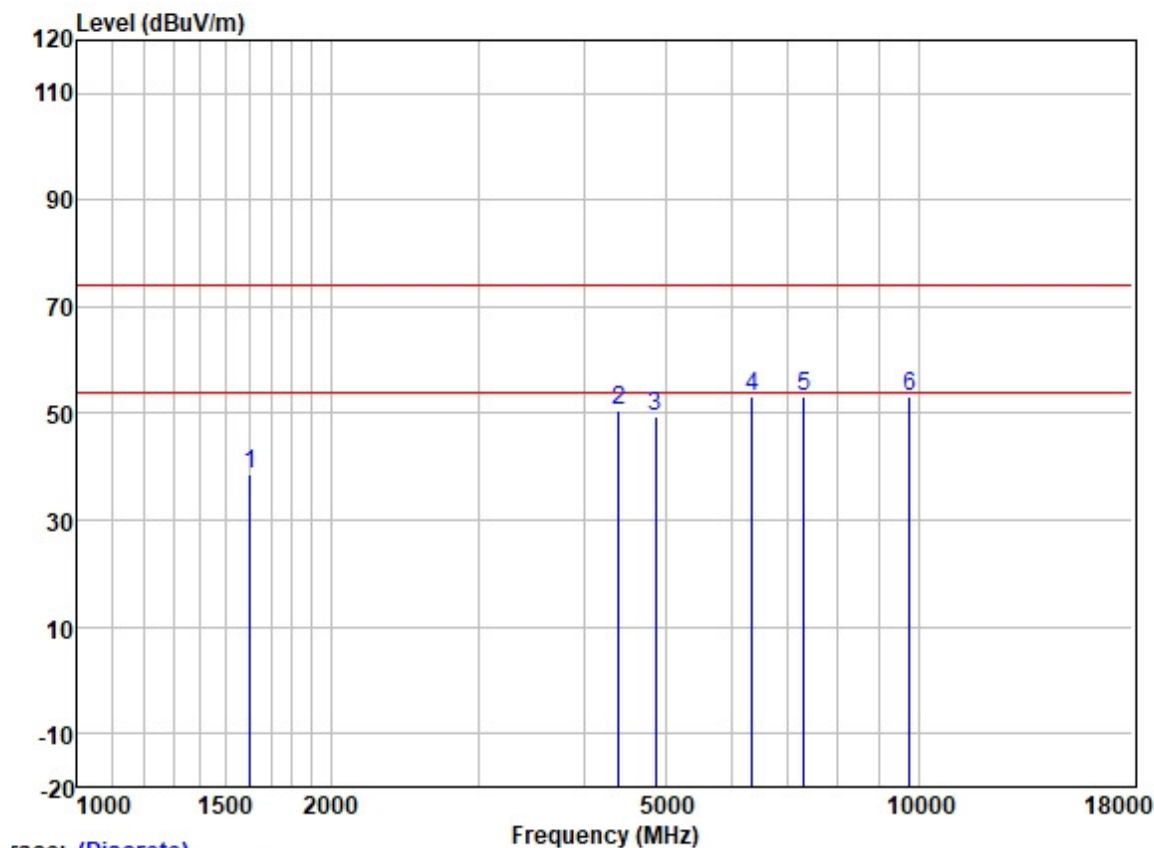
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	49.54	25.70	2.80	37.89	40.15	74.00	-33.85	VERTICAL	Peak
2	4367.058	51.16	30.62	4.68	36.81	49.65	74.00	-24.35	VERTICAL	Peak
3	4825.000	50.40	31.47	5.44	36.83	50.48	74.00	-23.52	VERTICAL	Peak
4	6795.879	50.57	34.66	5.82	37.12	53.93	74.00	-20.07	VERTICAL	Peak
5	7237.500	47.87	35.70	6.03	37.40	52.20	74.00	-21.80	VERTICAL	Peak
6	9650.000	45.75	38.40	7.06	37.42	53.79	74.00	-20.21	VERTICAL	Peak

Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



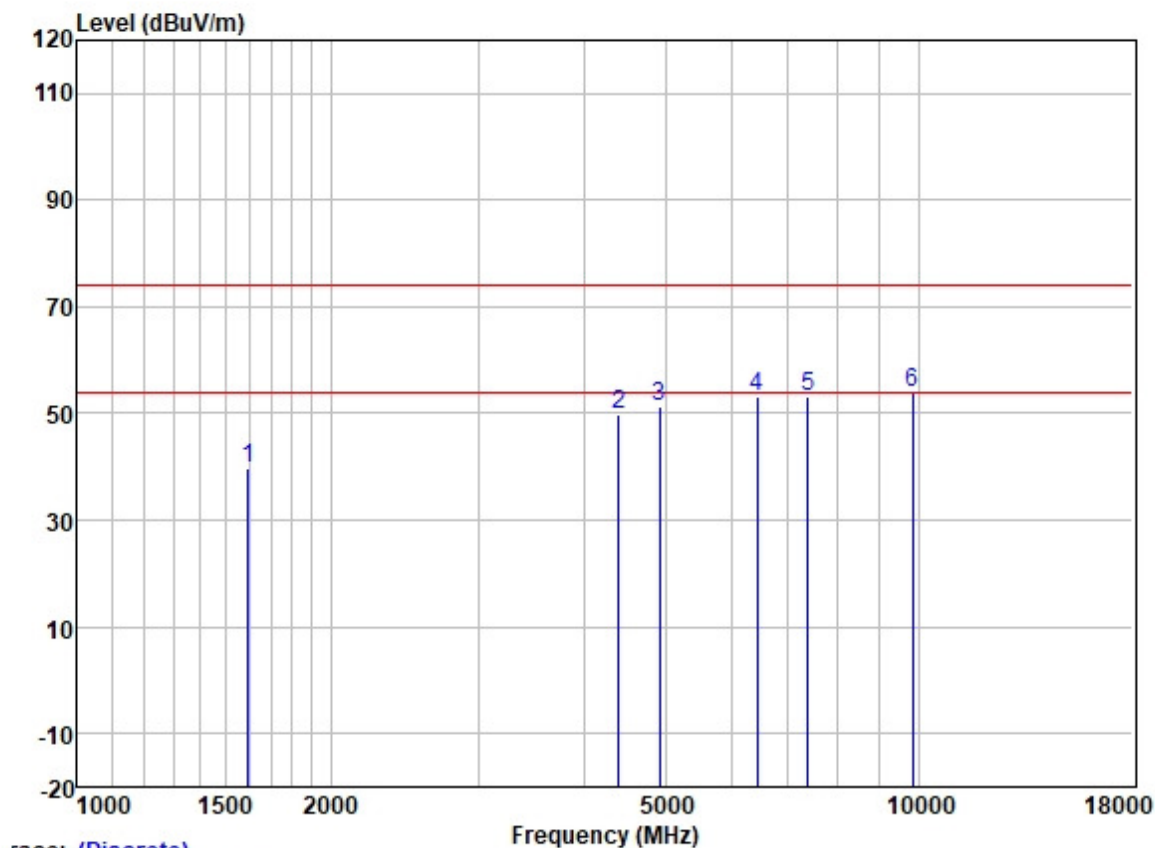
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	48.96	25.67	2.80	37.91	39.52	74.00	-34.48	HORIZONTAL	Peak
2	4405.090	50.63	30.68	4.70	36.81	49.20	74.00	-24.80	HORIZONTAL	Peak
3	4875.000	50.44	31.54	5.50	36.84	50.64	74.00	-23.36	HORIZONTAL	Peak
4	6855.063	49.82	34.78	5.82	37.15	53.27	74.00	-20.73	HORIZONTAL	Peak
5	7312.500	48.46	35.93	6.11	37.42	53.08	74.00	-20.92	HORIZONTAL	Peak
6	9750.000	45.59	38.50	7.02	37.41	53.70	74.00	-20.30	HORIZONTAL	Peak

Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: Middle



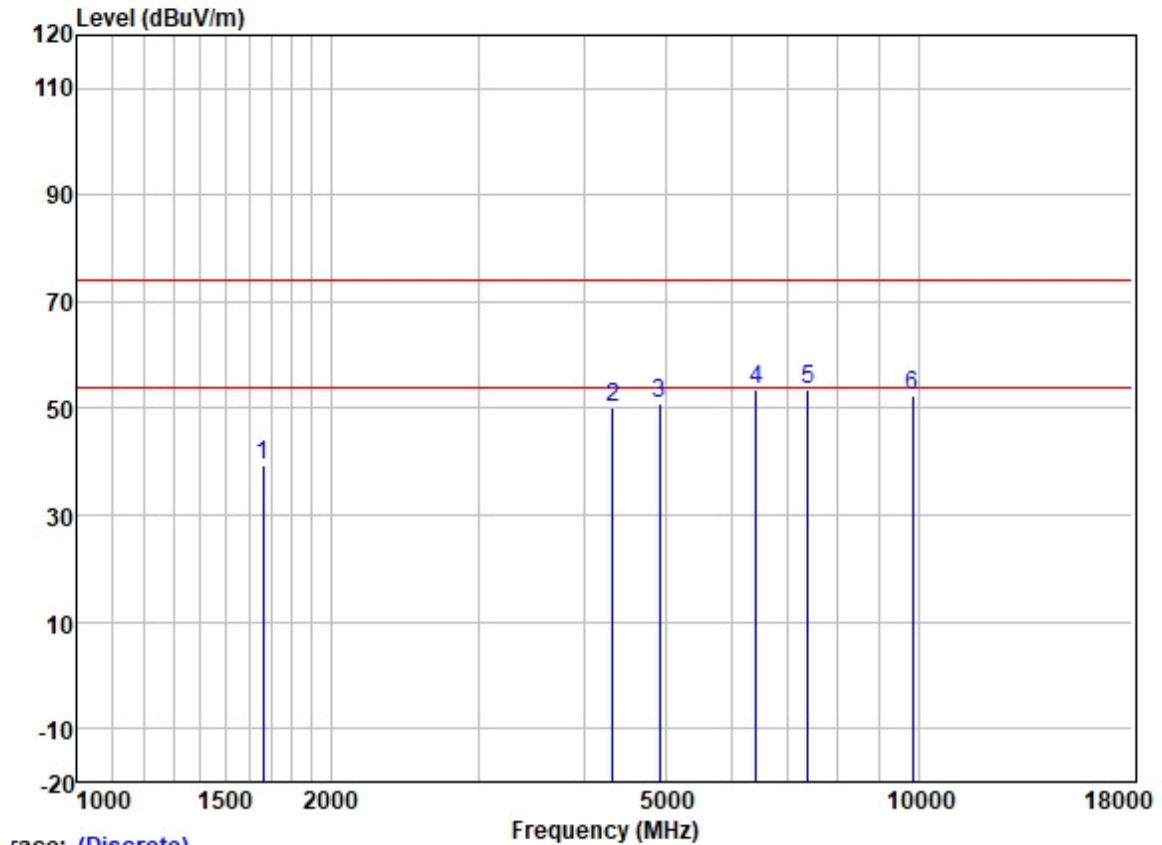
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1606.441	48.10	25.59	2.80	37.98	38.51	74.00	-35.49	VERTICAL	Peak
2	4405.090	52.13	30.68	4.70	36.81	50.70	74.00	-23.30	VERTICAL	Peak
3	4875.000	49.37	31.54	5.50	36.84	49.57	74.00	-24.43	VERTICAL	Peak
4	6340.436	50.60	33.57	5.94	36.97	53.14	74.00	-20.86	VERTICAL	Peak
5	7312.500	48.49	35.93	6.11	37.42	53.11	74.00	-20.89	VERTICAL	Peak
6	9750.000	45.12	38.50	7.02	37.41	53.23	74.00	-20.77	VERTICAL	Peak

Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: High



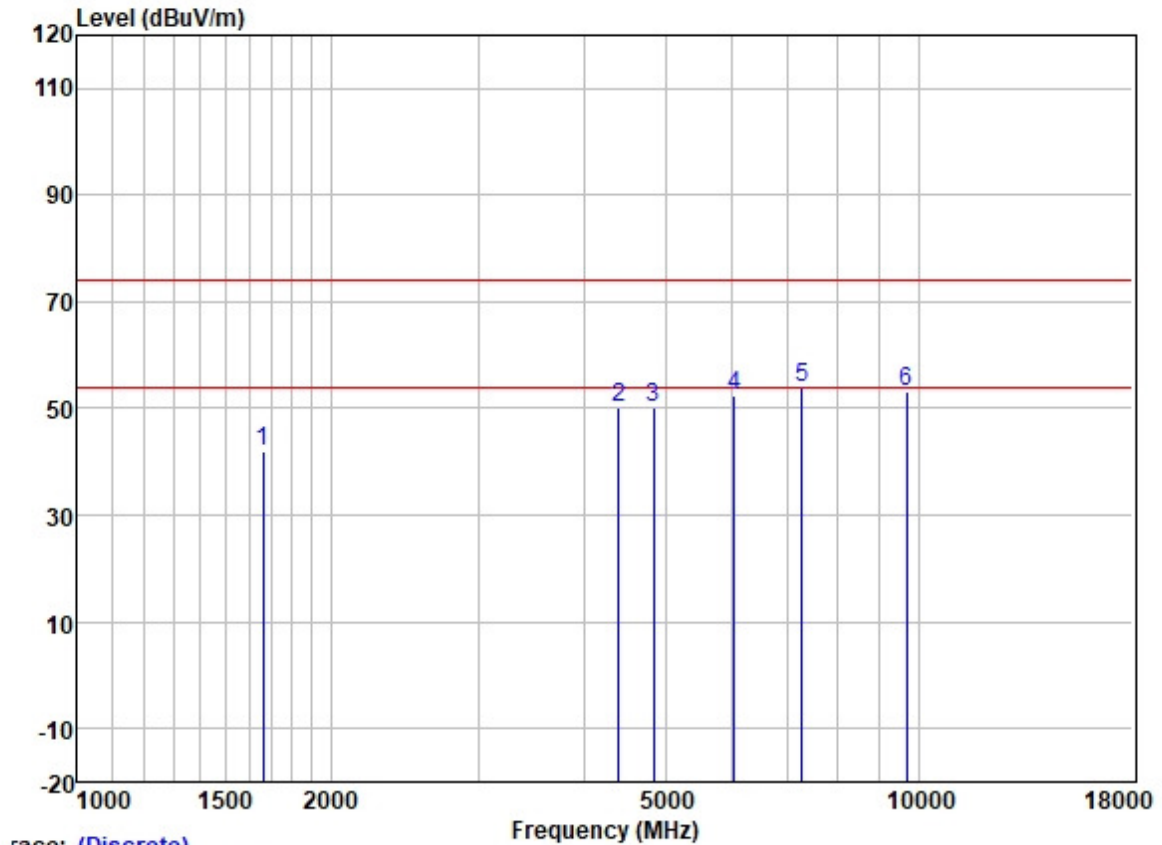
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1597.181	49.15	25.58	2.80	37.98	39.55	74.00	-34.45	HORIZONTAL Peak
2	4405.090	51.27	30.68	4.70	36.81	49.84	74.00	-24.16	HORIZONTAL Peak
3	4925.000	50.91	31.62	5.60	36.84	51.29	74.00	-22.71	HORIZONTAL Peak
4	6432.732	50.48	33.83	5.88	36.99	53.20	74.00	-20.80	HORIZONTAL Peak
5	7387.500	48.26	36.17	6.19	37.46	53.16	74.00	-20.84	HORIZONTAL Peak
6	9850.000	45.62	38.58	6.99	37.41	53.78	74.00	-20.22	HORIZONTAL Peak

Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: High



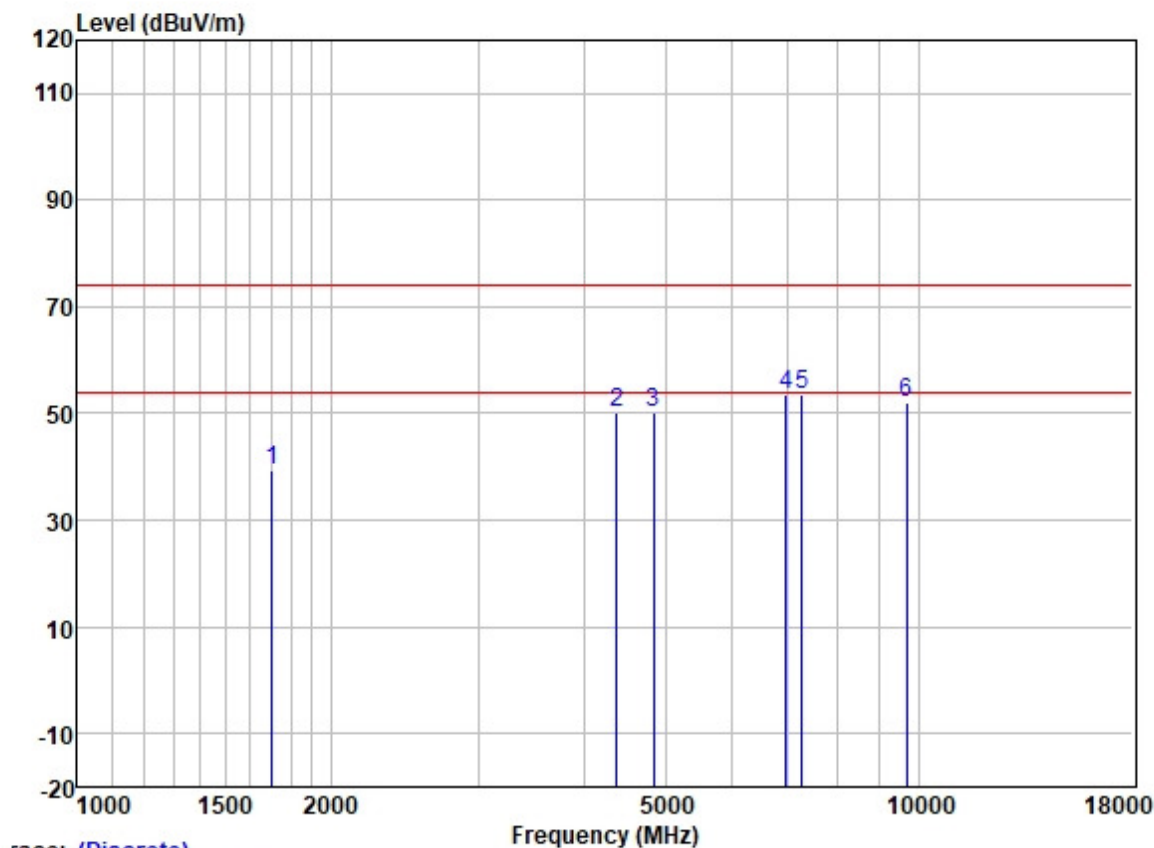
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	48.99	25.65	2.80	37.91	39.53	74.00	-34.47	VERTICAL	Peak
2	4329.354	51.67	30.54	4.67	36.81	50.07	74.00	-23.93	VERTICAL	Peak
3	4925.000	50.46	31.62	5.60	36.84	50.84	74.00	-23.16	VERTICAL	Peak
4	6414.167	50.79	33.79	5.89	36.99	53.48	74.00	-20.52	VERTICAL	Peak
5	7387.500	48.65	36.17	6.19	37.46	53.55	74.00	-20.45	VERTICAL	Peak
6	9850.000	44.38	38.58	6.99	37.41	52.54	74.00	-21.46	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: Low



		ReadAntenna		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	1663.137	51.43	25.65	2.80	37.91	41.97	74.00	-32.03	HORIZONTAL	Peak
2	4405.090	51.54	30.68	4.70	36.81	50.11	74.00	-23.89	HORIZONTAL	Peak
3	4845.000	50.24	31.50	5.45	36.84	50.35	74.00	-23.65	HORIZONTAL	Peak
4	6036.421	50.56	32.48	6.18	36.90	52.32	74.00	-21.68	HORIZONTAL	Peak
5	7267.500	49.31	35.78	6.06	37.41	53.74	74.00	-20.26	HORIZONTAL	Peak
6	9690.000	45.26	38.44	7.04	37.42	53.32	74.00	-20.68	HORIZONTAL	Peak

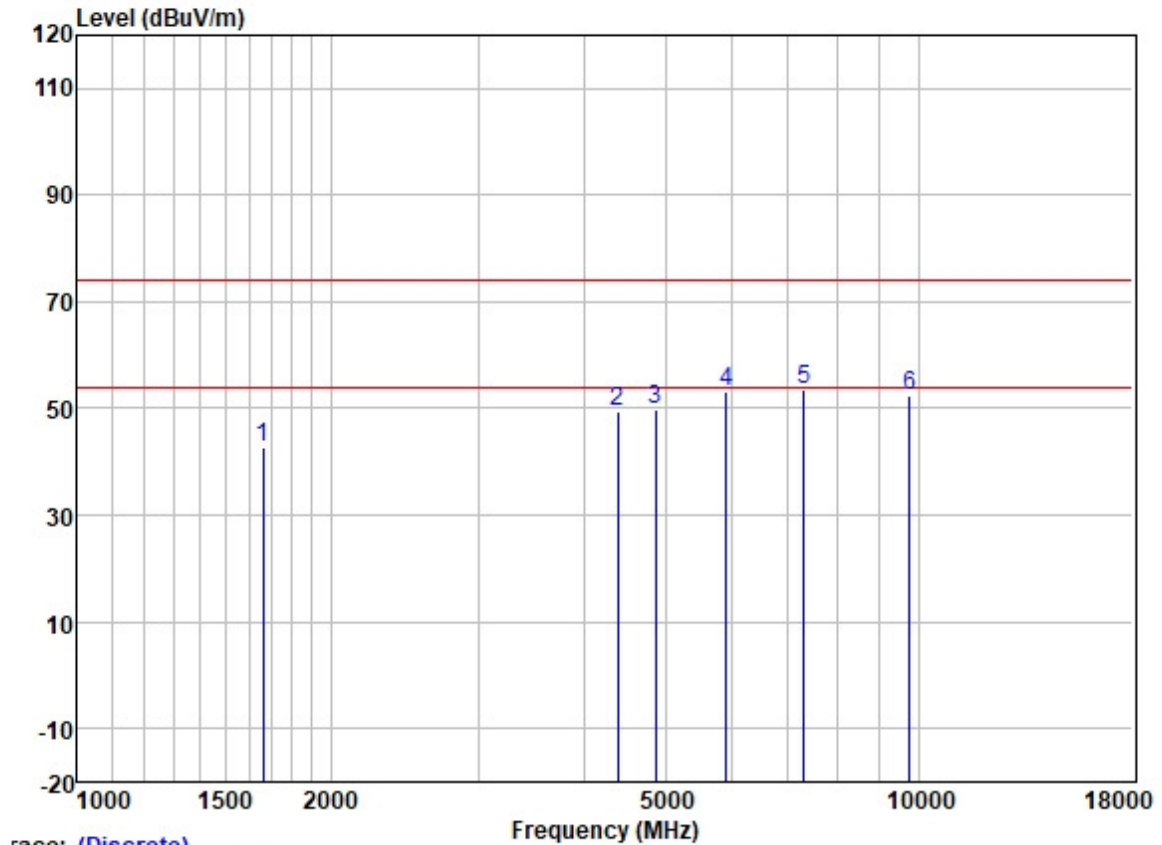
Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: Low



race: (Discrete)

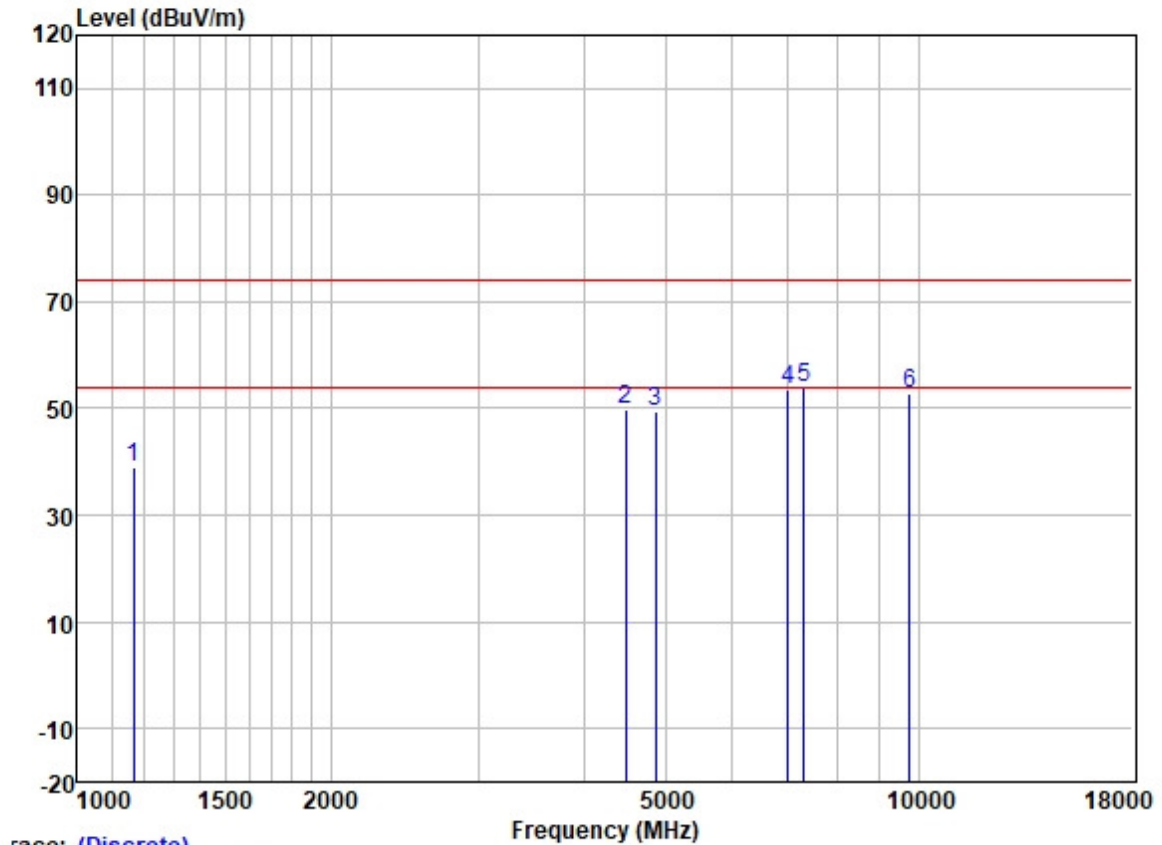
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	48.66	25.72	2.80	37.89	39.29	74.00	-34.71	VERTICAL	Peak
2	4379.699	51.66	30.64	4.69	36.81	50.18	74.00	-23.82	VERTICAL	Peak
3	4845.000	50.06	31.50	5.45	36.84	50.17	74.00	-23.83	VERTICAL	Peak
4	6954.852	49.91	34.95	5.81	37.21	53.46	74.00	-20.54	VERTICAL	Peak
5	7267.500	49.16	35.78	6.06	37.41	53.59	74.00	-20.41	VERTICAL	Peak
6	9690.000	44.11	38.44	7.04	37.42	52.17	74.00	-21.83	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



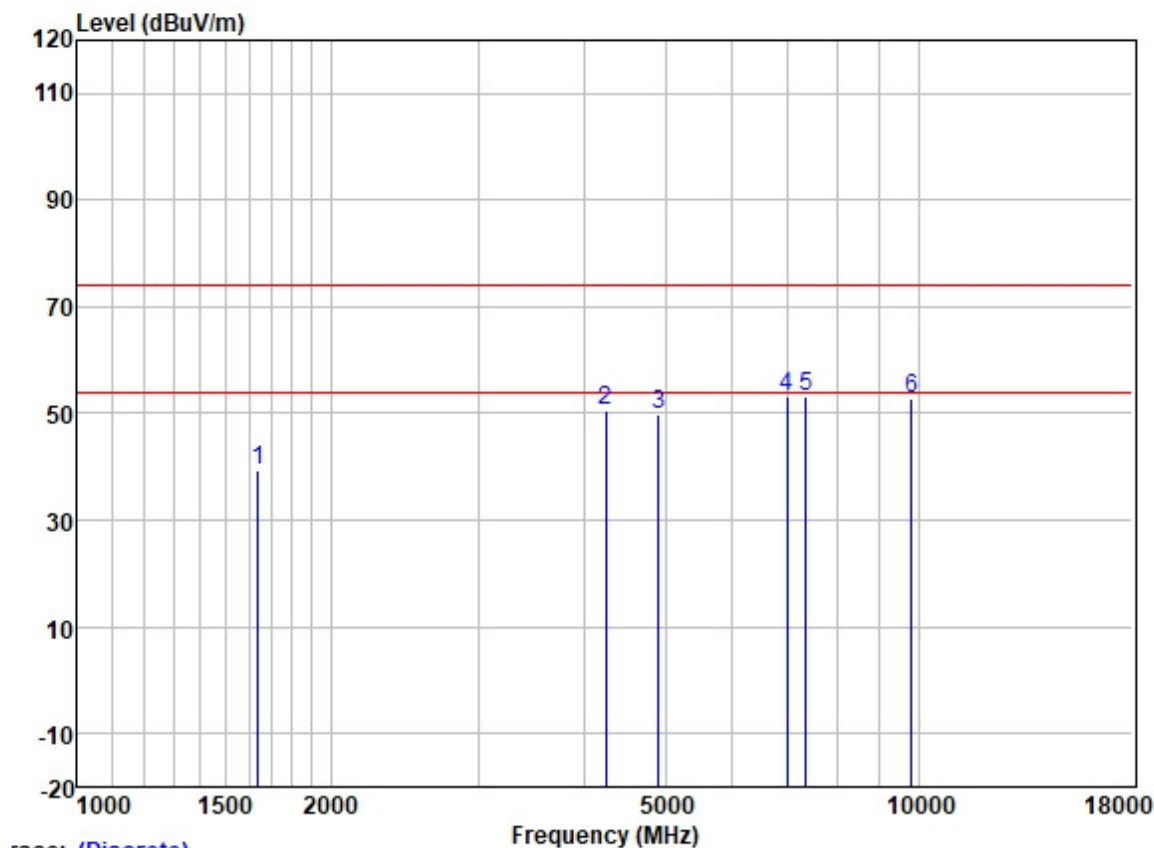
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1663.137	52.26	25.65	2.80	37.91	42.80	74.00	-31.20	HORIZONTAL Peak
2	4392.376	50.93	30.66	4.70	36.81	49.48	74.00	-24.52	HORIZONTAL Peak
3	4875.000	49.47	31.54	5.50	36.84	49.67	74.00	-24.33	HORIZONTAL Peak
4	5915.516	51.91	32.33	5.95	36.90	53.29	74.00	-20.71	HORIZONTAL Peak
5	7312.500	49.10	35.93	6.11	37.42	53.72	74.00	-20.28	HORIZONTAL Peak
6	9750.000	44.49	38.50	7.02	37.41	52.60	74.00	-21.40	HORIZONTAL Peak

Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: Middle



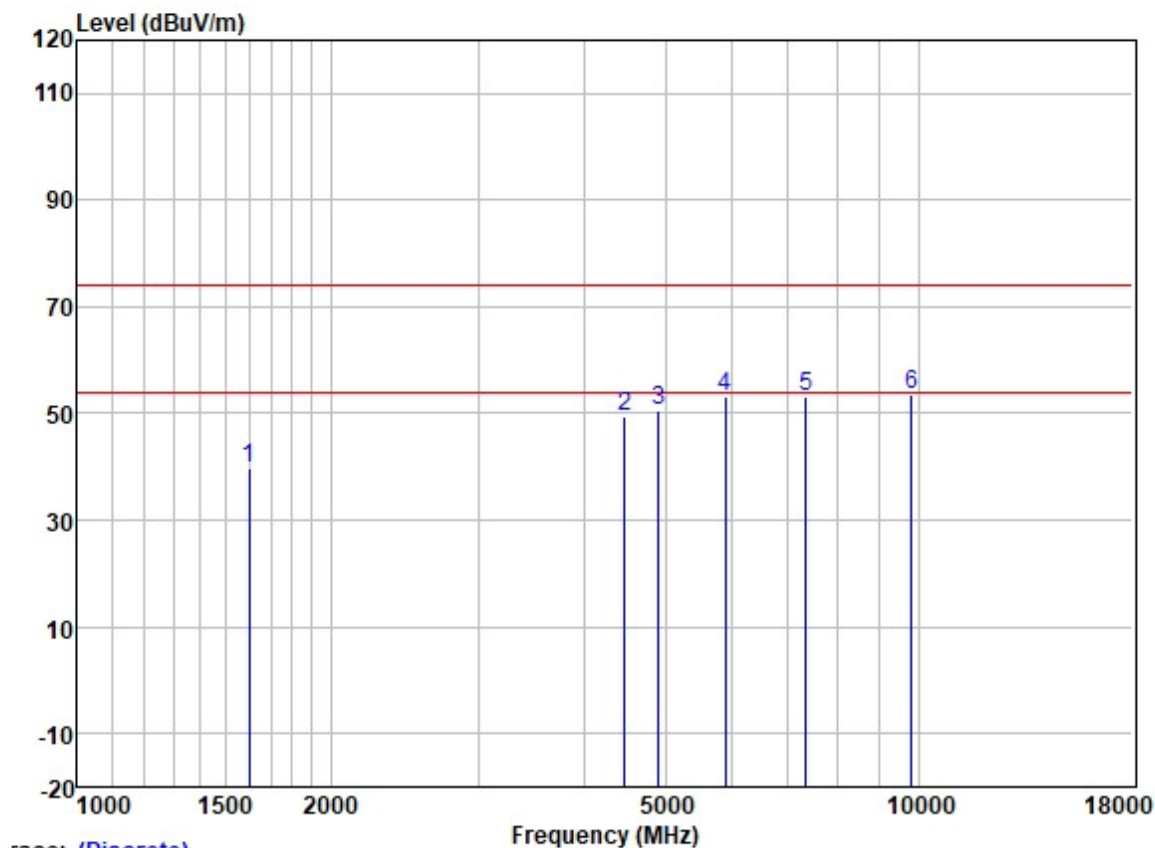
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1165.546	50.57	24.54	2.39	38.40	39.10	74.00	-34.90	VERTICAL	Peak
2	4482.150	50.67	30.78	4.99	36.81	49.63	74.00	-24.37	VERTICAL	Peak
3	4875.000	49.28	31.54	5.50	36.84	49.48	74.00	-24.52	VERTICAL	Peak
4	6995.172	49.95	35.00	5.81	37.25	53.51	74.00	-20.49	VERTICAL	Peak
5	7312.500	49.26	35.93	6.11	37.42	53.88	74.00	-20.12	VERTICAL	Peak
6	9750.000	44.72	38.50	7.02	37.41	52.83	74.00	-21.17	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1639.274	48.86	25.62	2.80	37.93	39.35	74.00	-34.65	HORIZONTAL	Peak
2	4242.641	52.32	30.30	4.62	36.81	50.43	74.00	-23.57	HORIZONTAL	Peak
3	4905.000	49.66	31.58	5.55	36.84	49.95	74.00	-24.05	HORIZONTAL	Peak
4	6974.982	49.76	34.97	5.81	37.23	53.31	74.00	-20.69	HORIZONTAL	Peak
5	7357.500	48.58	36.06	6.15	37.44	53.35	74.00	-20.65	HORIZONTAL	Peak
6	9810.000	44.83	38.56	7.00	37.41	52.98	74.00	-21.02	HORIZONTAL	Peak

Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1601.804	49.29	25.58	2.80	37.98	39.69	74.00	-34.31	VERTICAL
2	4469.214	50.56	30.77	4.93	36.81	49.45	74.00	-24.55	VERTICAL
3	4905.000	50.29	31.58	5.55	36.84	50.58	74.00	-23.42	VERTICAL
4	5898.442	51.69	32.31	5.90	36.90	53.00	74.00	-21.00	VERTICAL
5	7357.500	48.24	36.06	6.15	37.44	53.01	74.00	-20.99	VERTICAL
6	9810.000	45.57	38.56	7.00	37.41	53.72	74.00	-20.28	VERTICAL

7.9 Duty Cycle

Test Requirement KDB 558074 D01 v05r02 section 6
Test Method: ANSI C63.10 (2013) Section 11.6

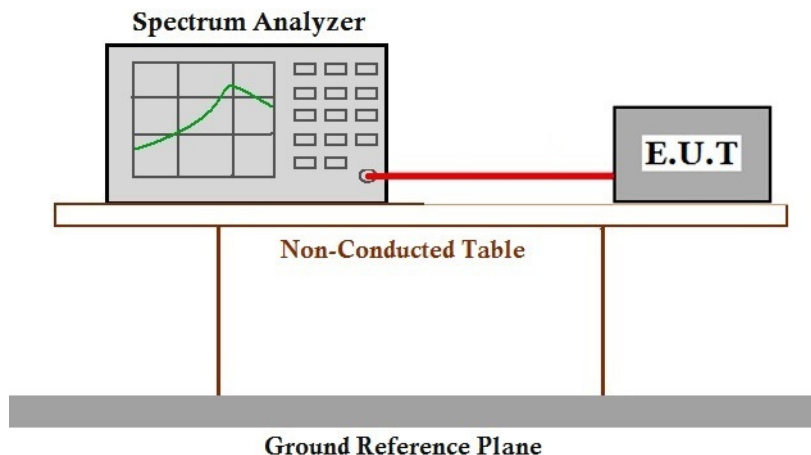
7.9.1 E.U.T. Operation

Operating Environment:
Temperature: 21.6 °C Humidity: 52.0 % RH Atmospheric Pressure: 1003 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix – Setup Photos for GZCR2203000248AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2203000248AT



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SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch Testing Center EEC Laboratory

No.198 Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 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

10 Appendix

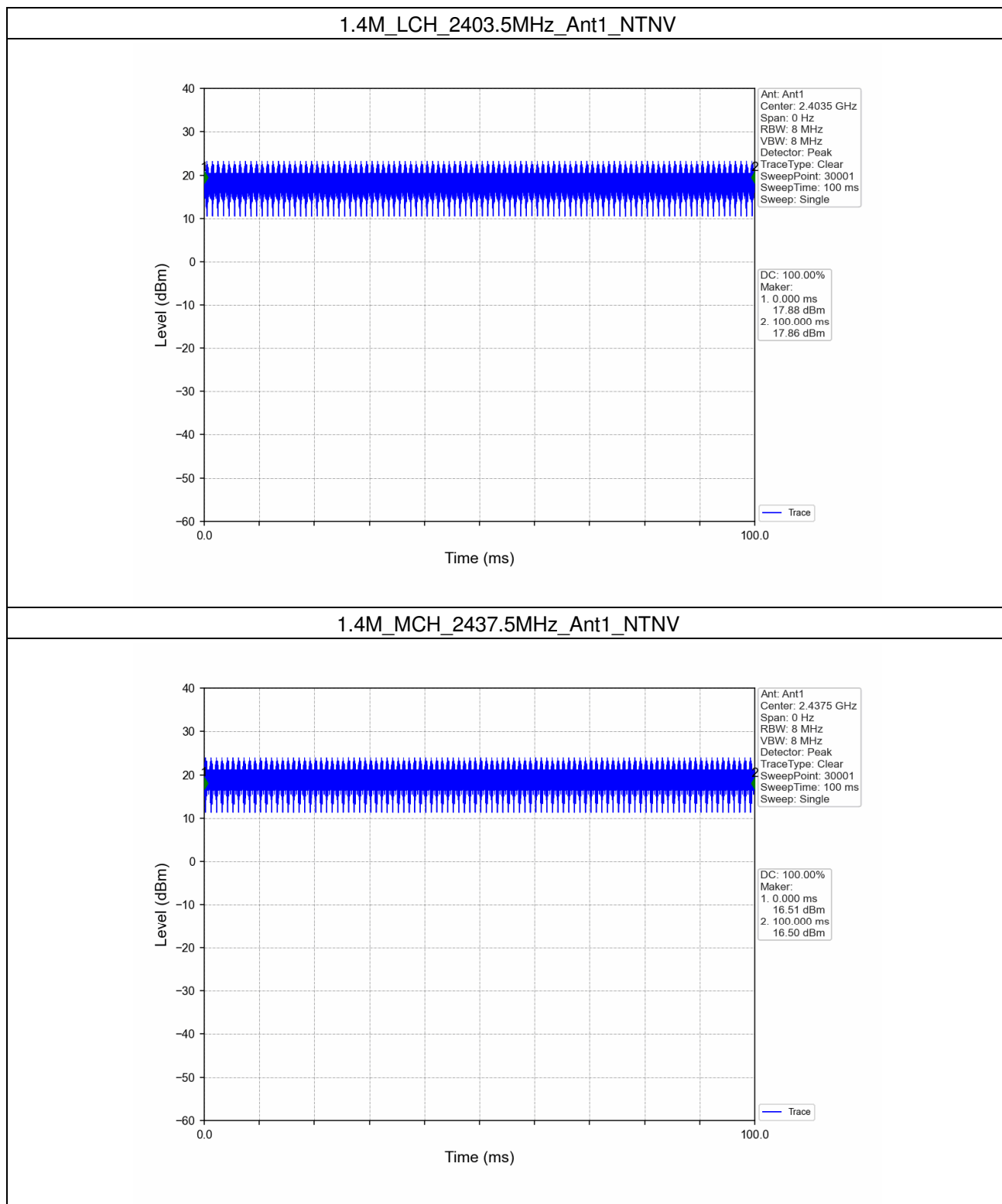
1. Duty Cycle

1.1 Ant1

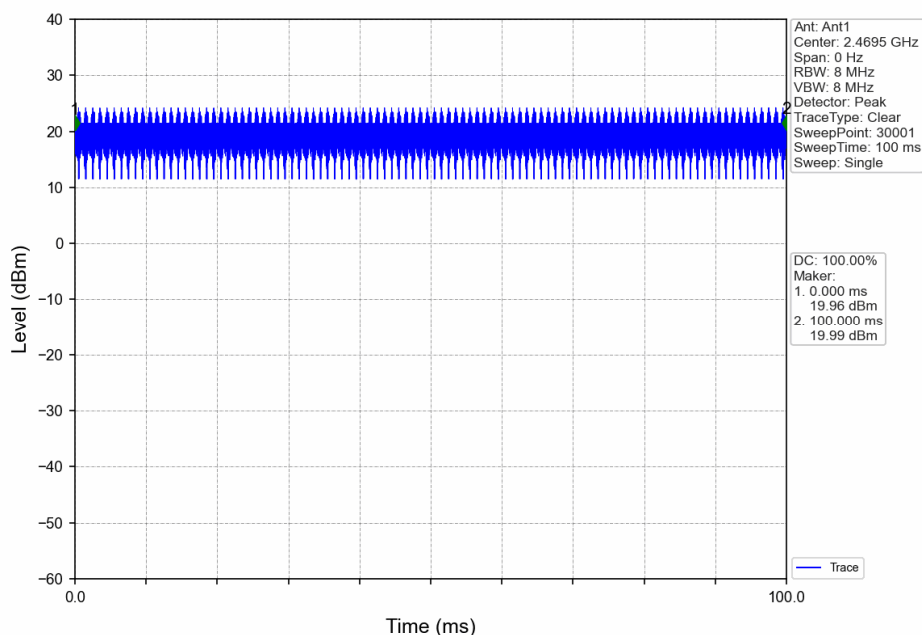
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	SISO	2403.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2469.5	100.000	100.000	100.00	0.00	0.00
3M	SISO	2405.5	100.000	100.000	100.00	0.00	0.00
		2438.5	100.000	100.000	100.00	0.00	0.00
		2468.5	100.000	100.000	100.00	0.00	0.00
10M	SISO	2407.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2467.5	100.000	100.000	100.00	0.00	0.00
20M	SISO	2412.5	19.973	20.000	99.87	0.01	0.00
		2437.5	19.973	20.000	99.87	0.01	0.00
		2462.5	19.904	20.000	99.52	0.02	0.00
40M	SISO	2422.5	19.976	20.000	99.88	0.01	0.00
		2437.5	19.977	20.000	99.88	0.00	0.00
		2452.5	19.977	20.000	99.89	0.00	0.00

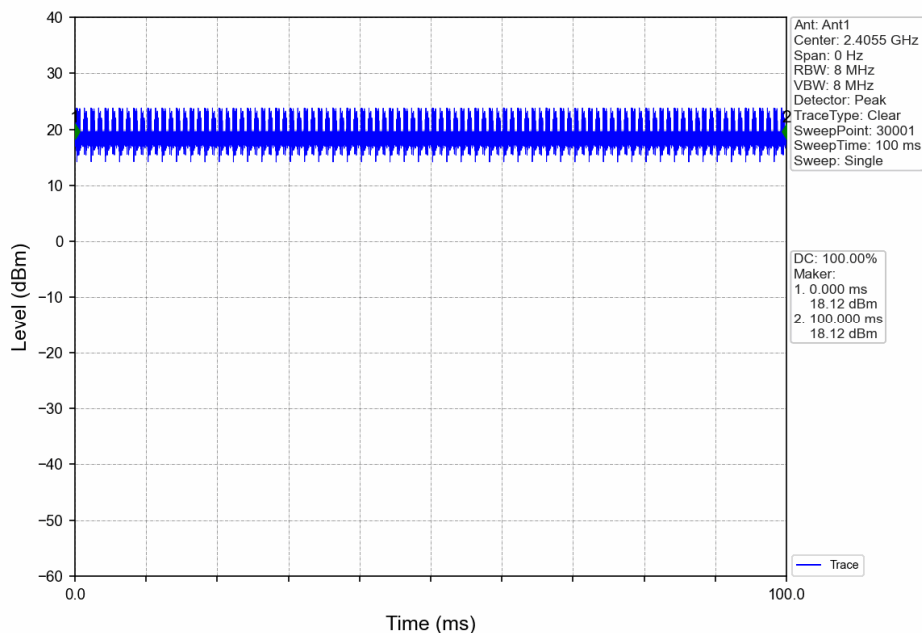
1.1.2 Test Graph



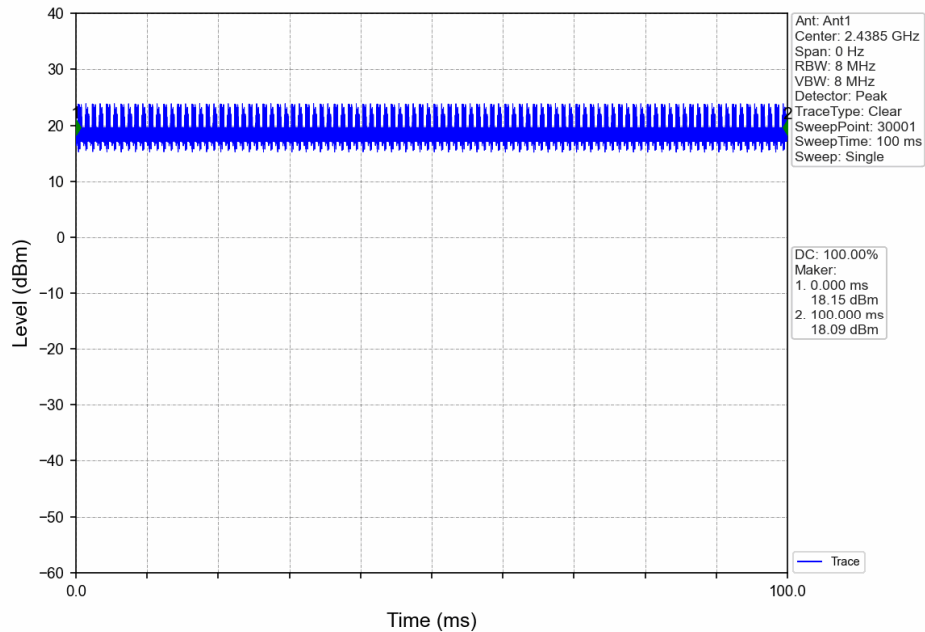
1.4M_HCH_2469.5MHz_Ant1_NTNV



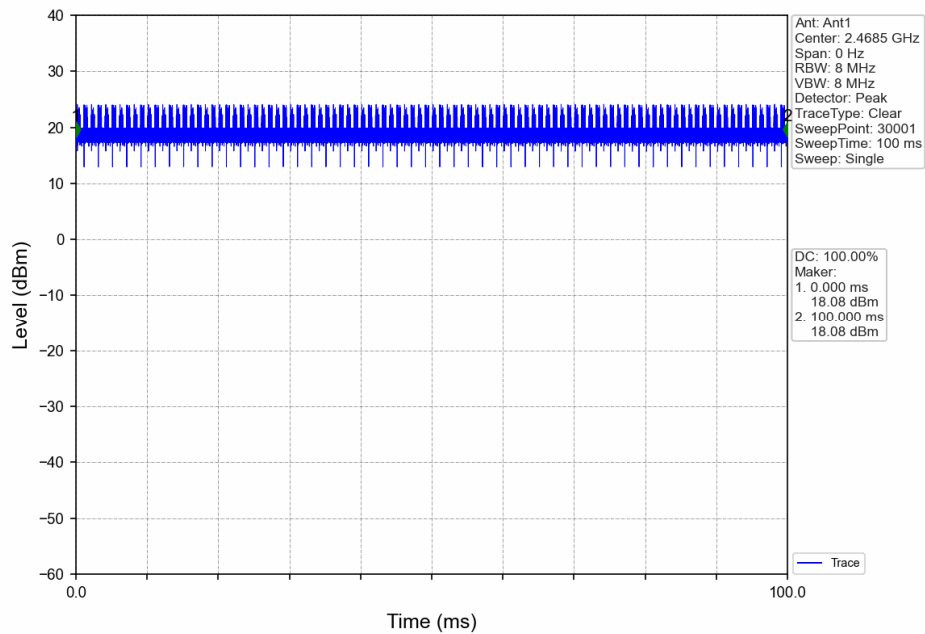
3M_LCH_2405.5MHz_Ant1_NTNV



3M_MCH_2438.5MHz_Ant1_NTNV



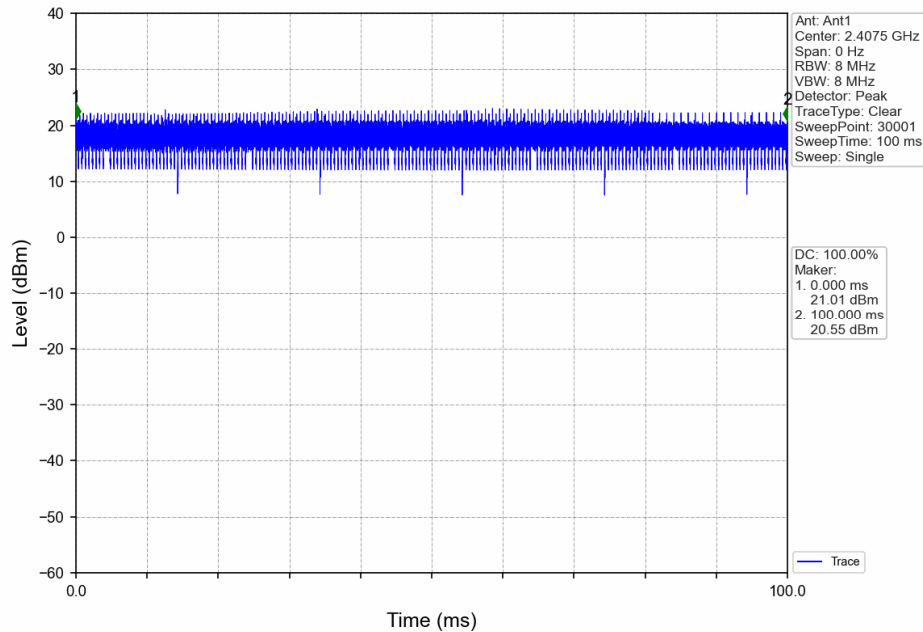
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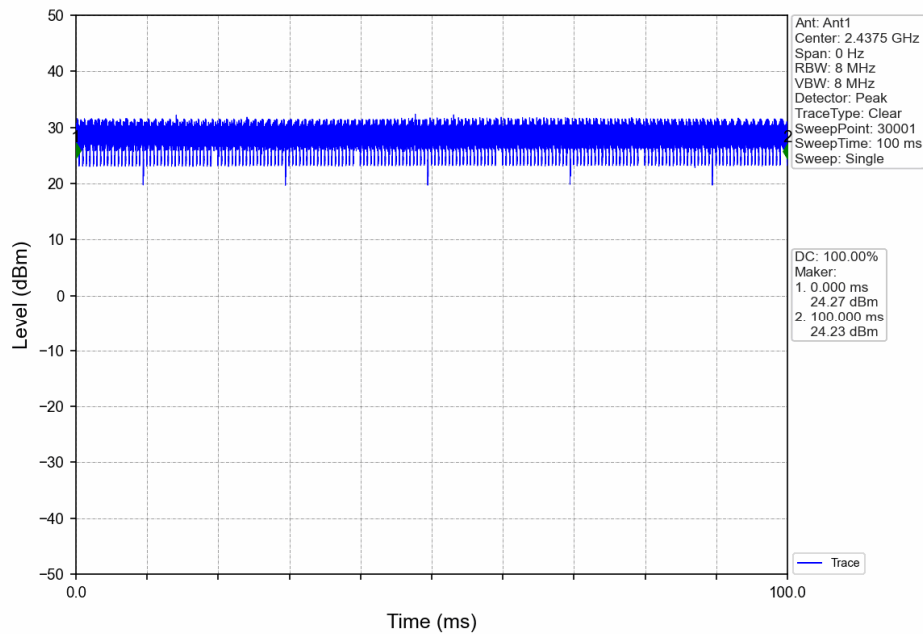
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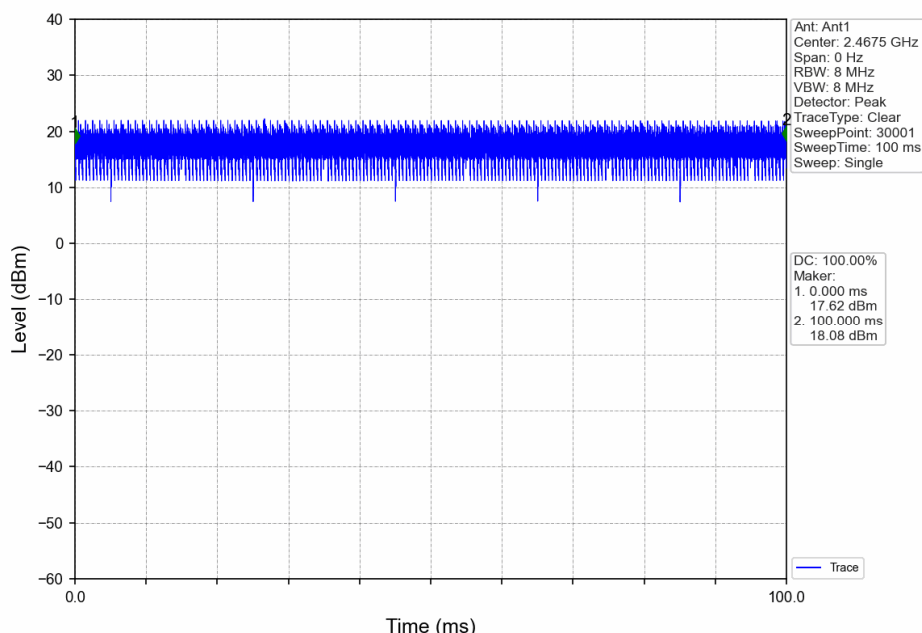
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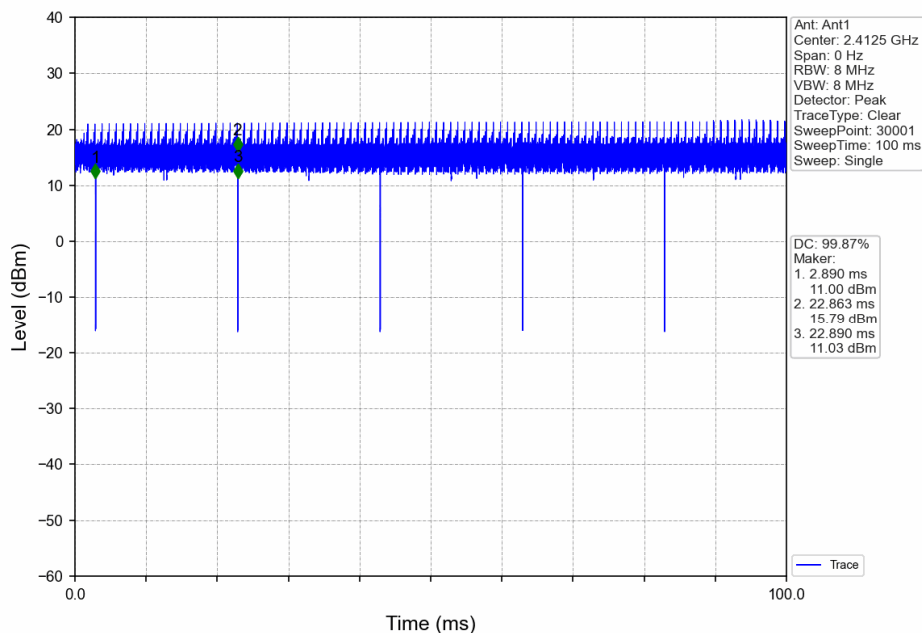
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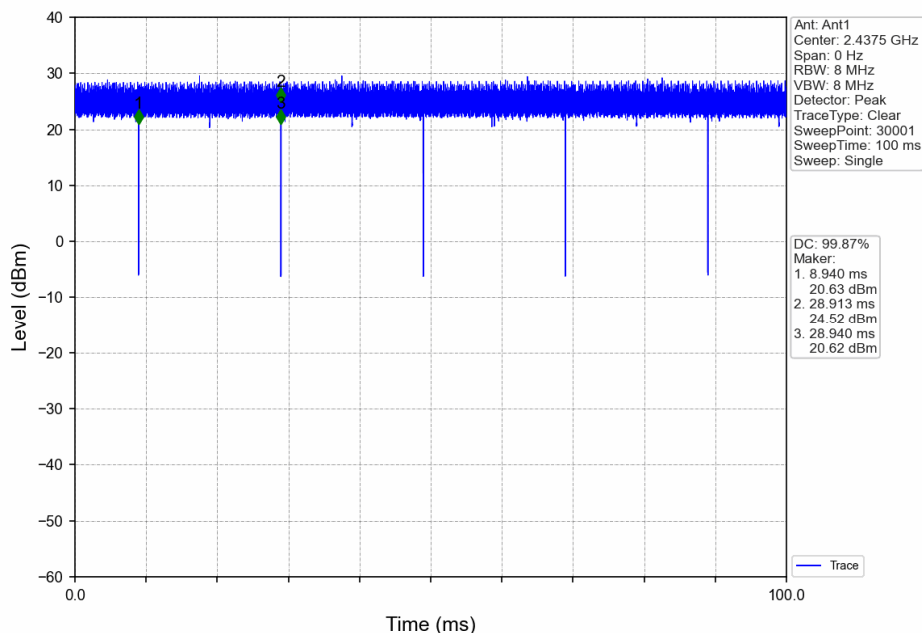
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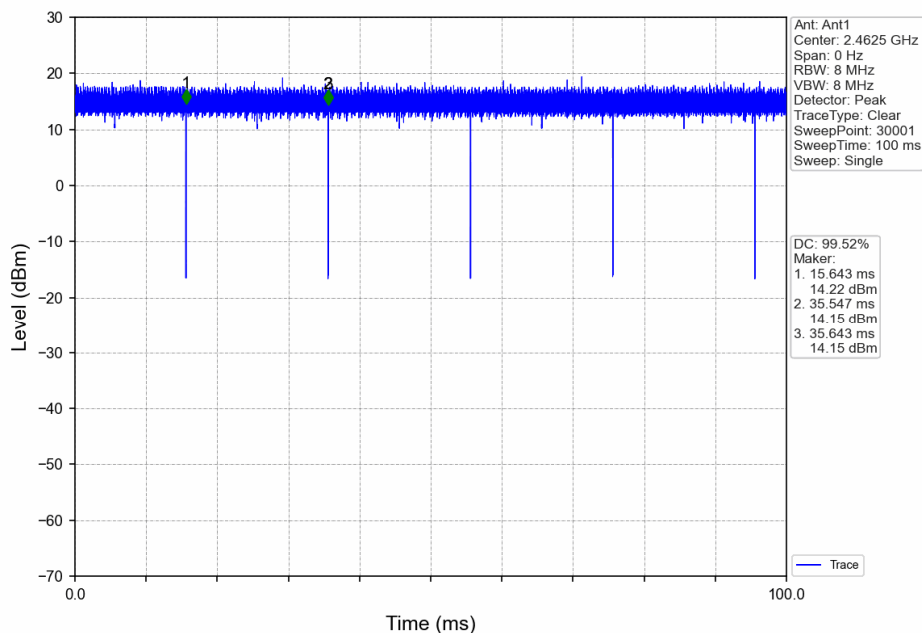
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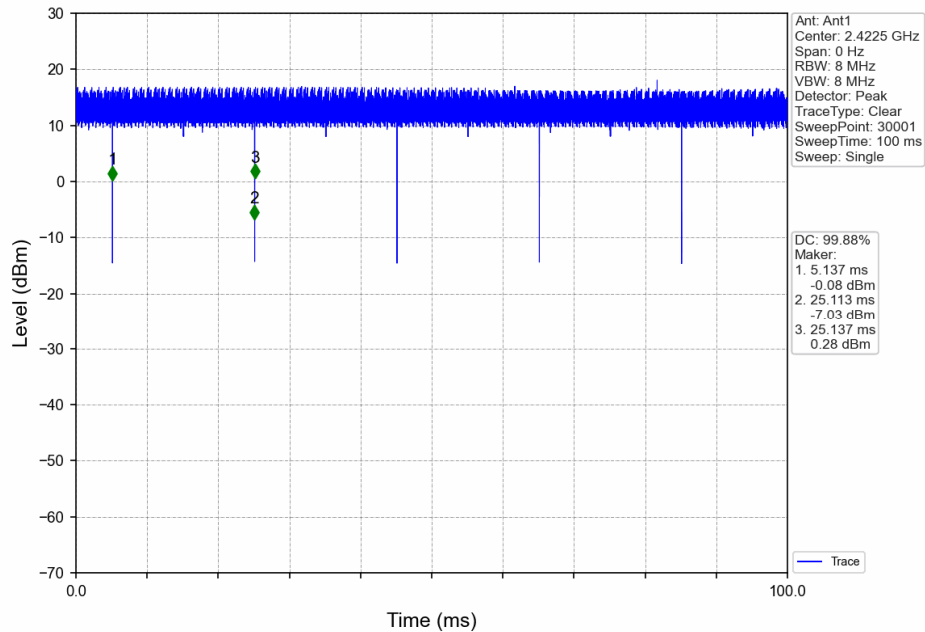
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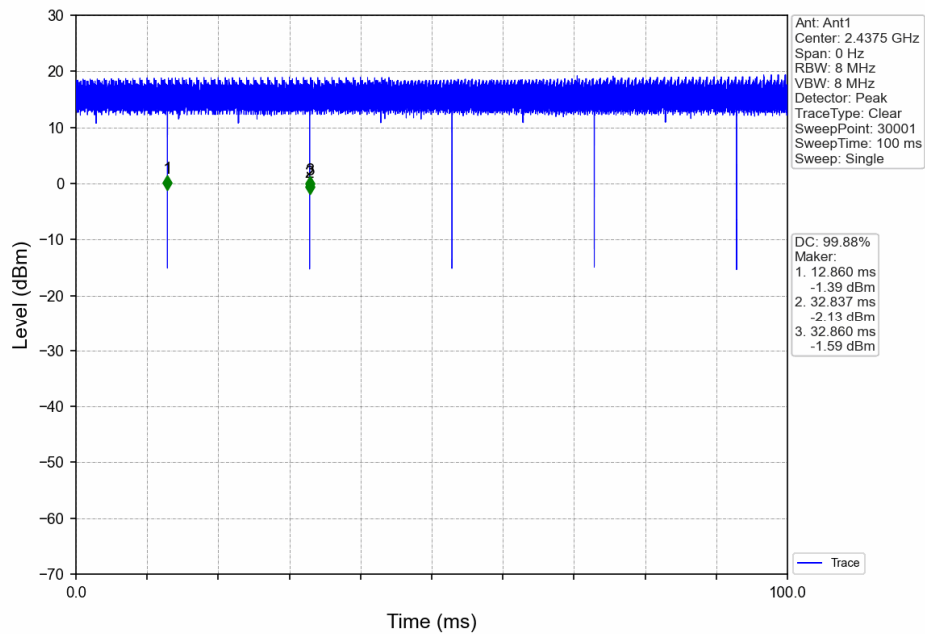
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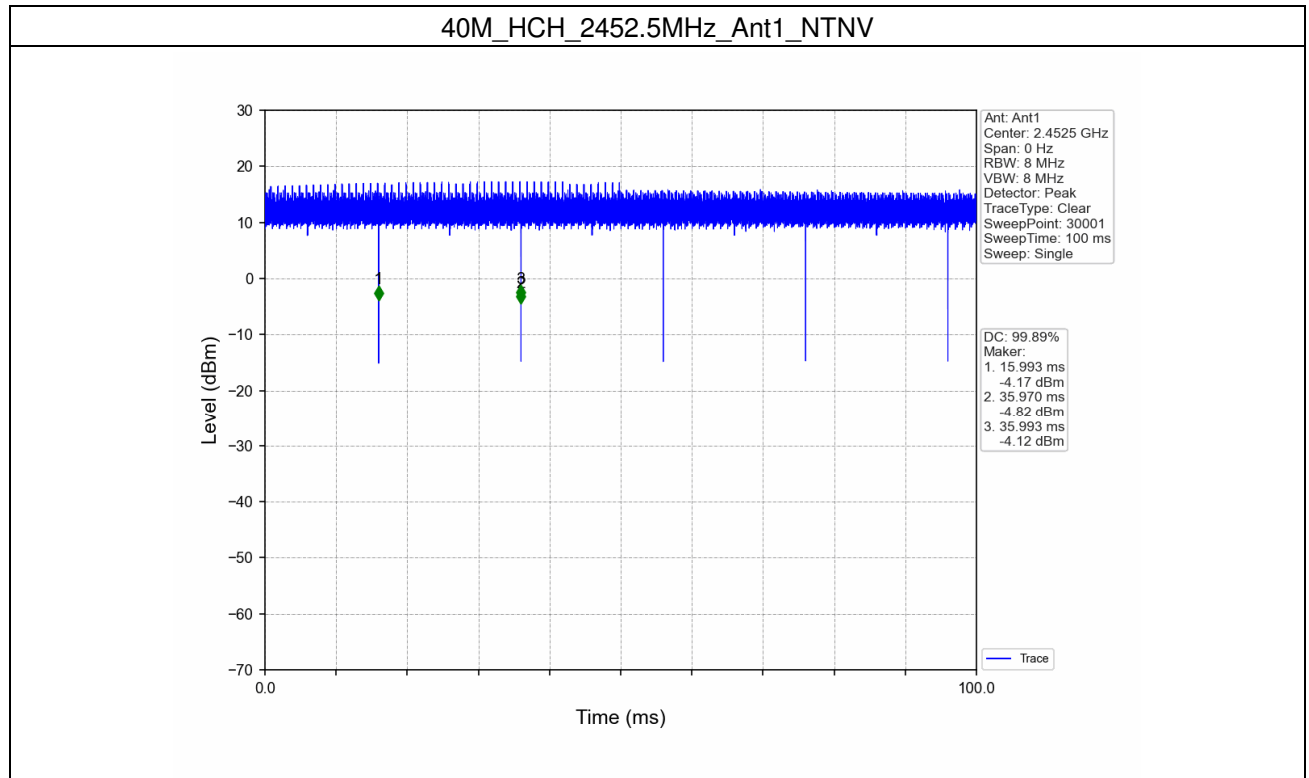


40M_LCH_2422.5MHz_Ant1_NTNV



40M_MCH_2437.5MHz_Ant1_NTNV





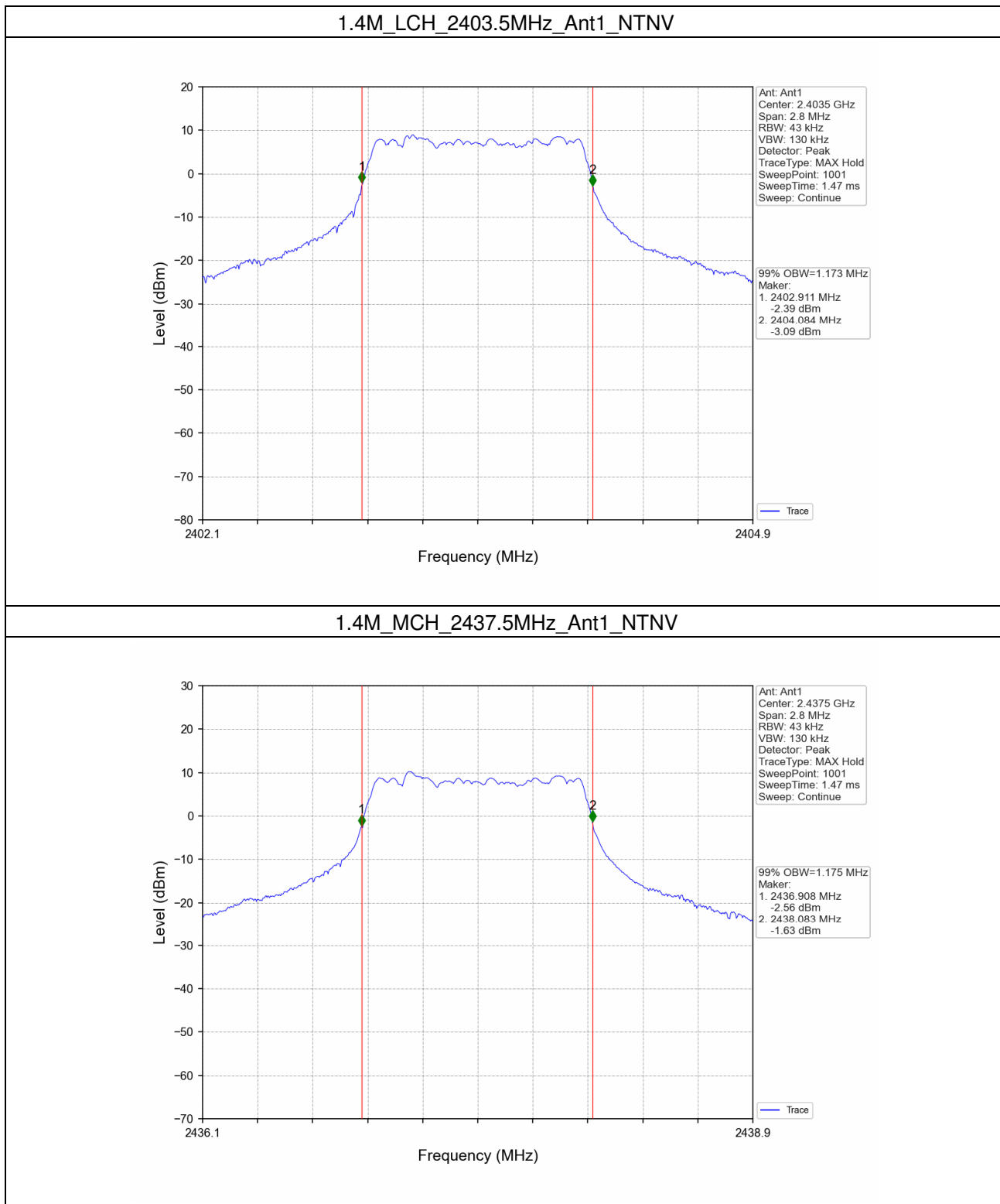
2. Bandwidth

2.1 OBW

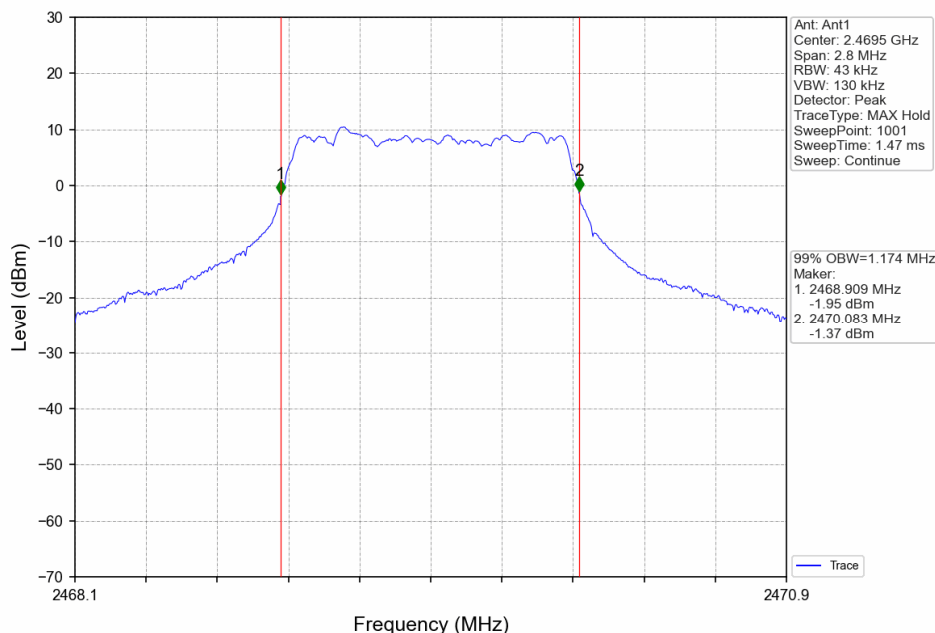
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1.4M	SISO	2403.5	1	1.173	Pass
		2437.5	1	1.175	Pass
		2469.5	1	1.174	Pass
3M	SISO	2405.5	1	2.320	Pass
		2438.5	1	2.317	Pass
		2468.5	1	2.323	Pass
10M	SISO	2407.5	1	9.021	Pass
		2437.5	1	9.010	Pass
		2467.5	1	8.930	Pass
20M	SISO	2412.5	1	18.052	Pass
		2437.5	1	17.957	Pass
		2462.5	1	18.071	Pass
40M	SISO	2422.5	1	36.206	Pass
		2437.5	1	36.037	Pass
		2452.5	1	36.334	Pass

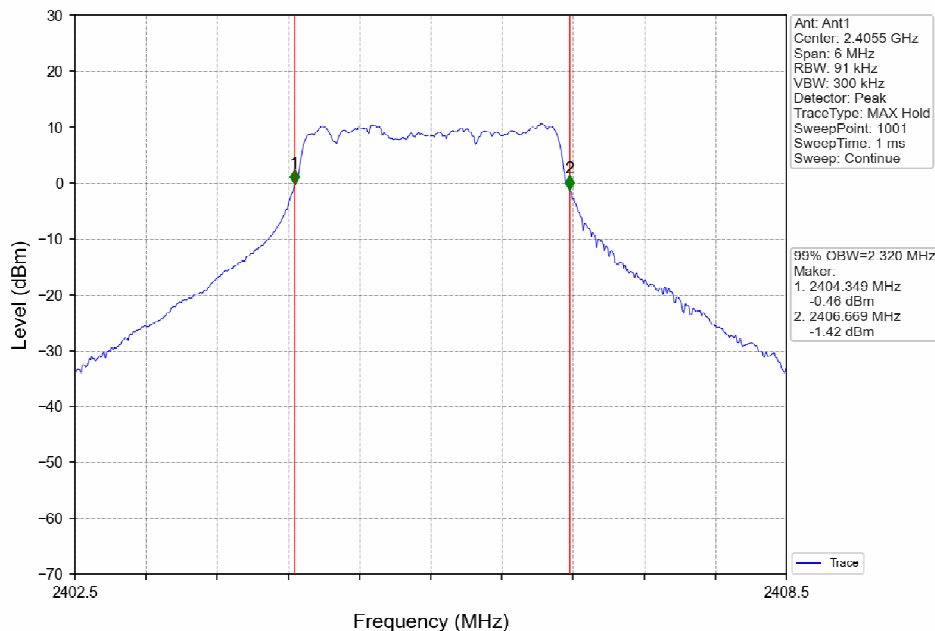
2.1.2 Test Graph



1.4M_HCH_2469.5MHz_Ant1_NTNV



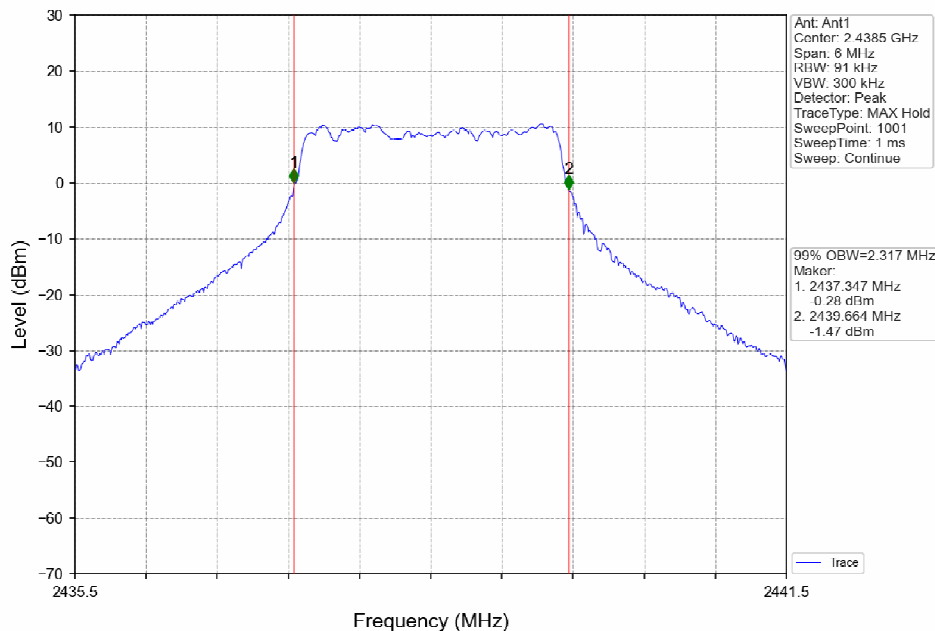
3M_LCH_2405.5MHz_Ant1_NTNV



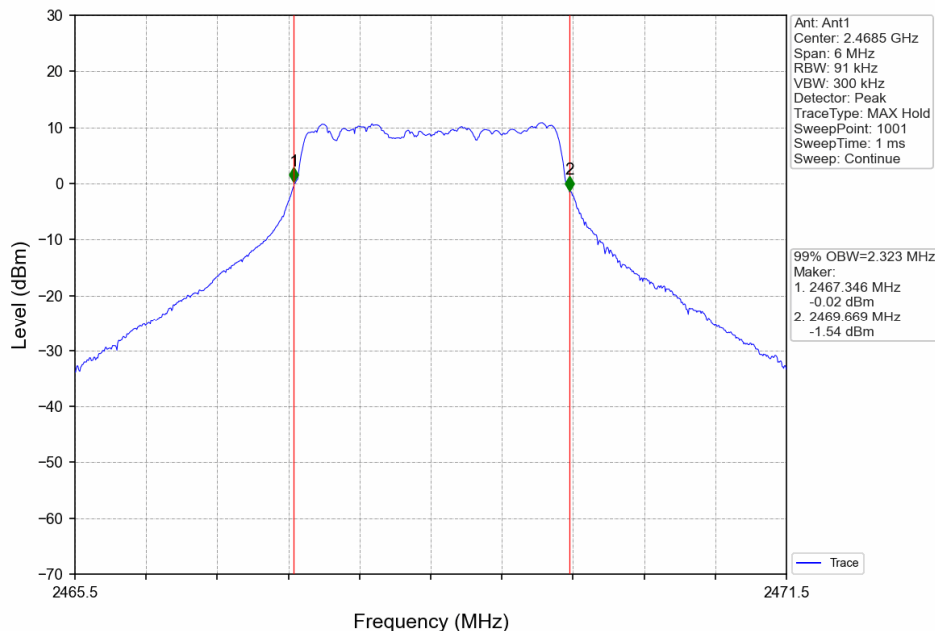
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3M_MCH_2438.5MHz_Ant1_NTNV



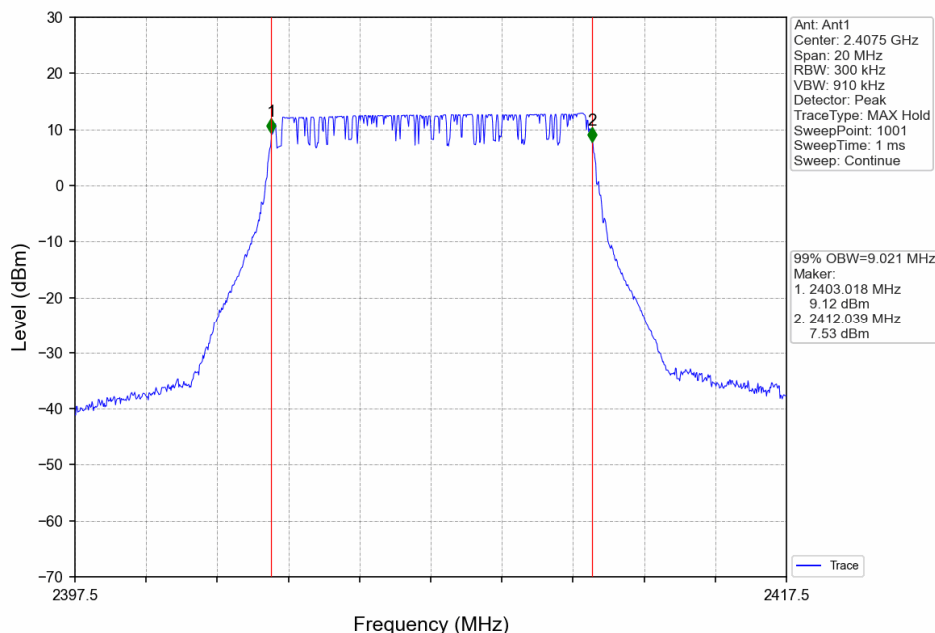
3M_HCH_2468.5MHz_Ant1_NTNV



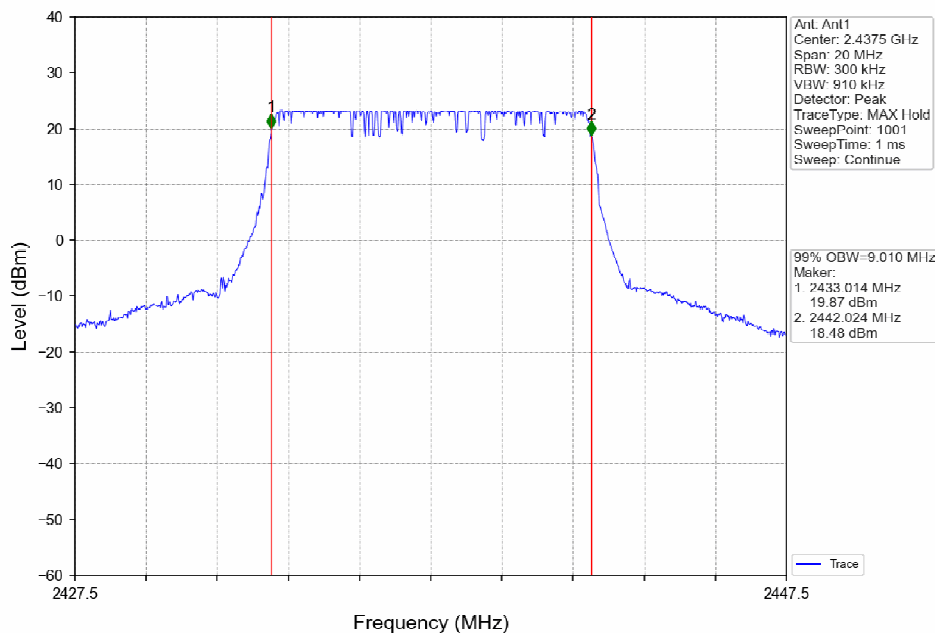
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10M_LCH_2407.5MHz_Ant1_NTNV

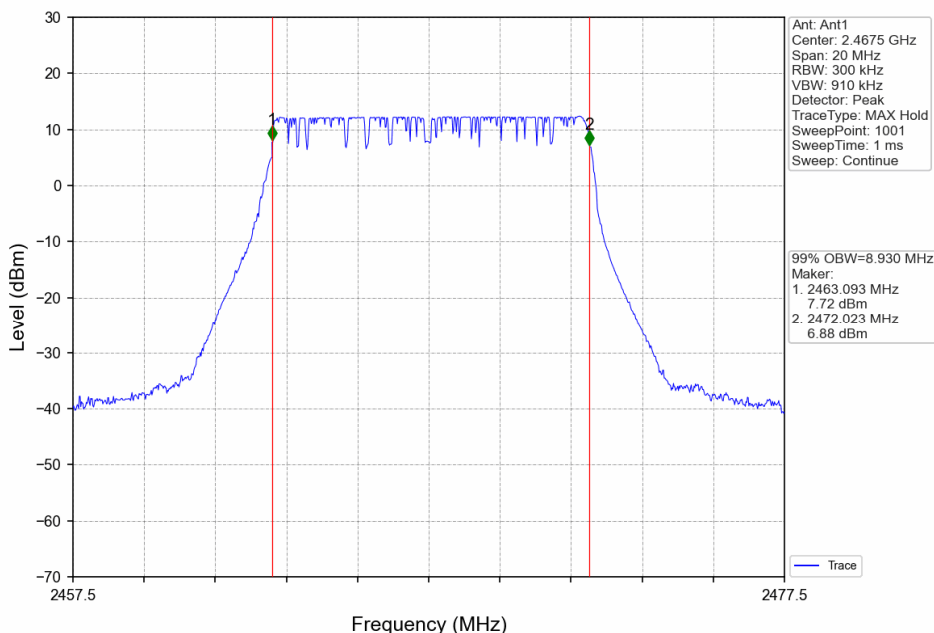


10M_MCH_2437.5MHz_Ant1_NTNV



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10M_HCH_2467.5MHz_Ant1_NTNV



20M_LCH_2412.5MHz_Ant1_NTNV

