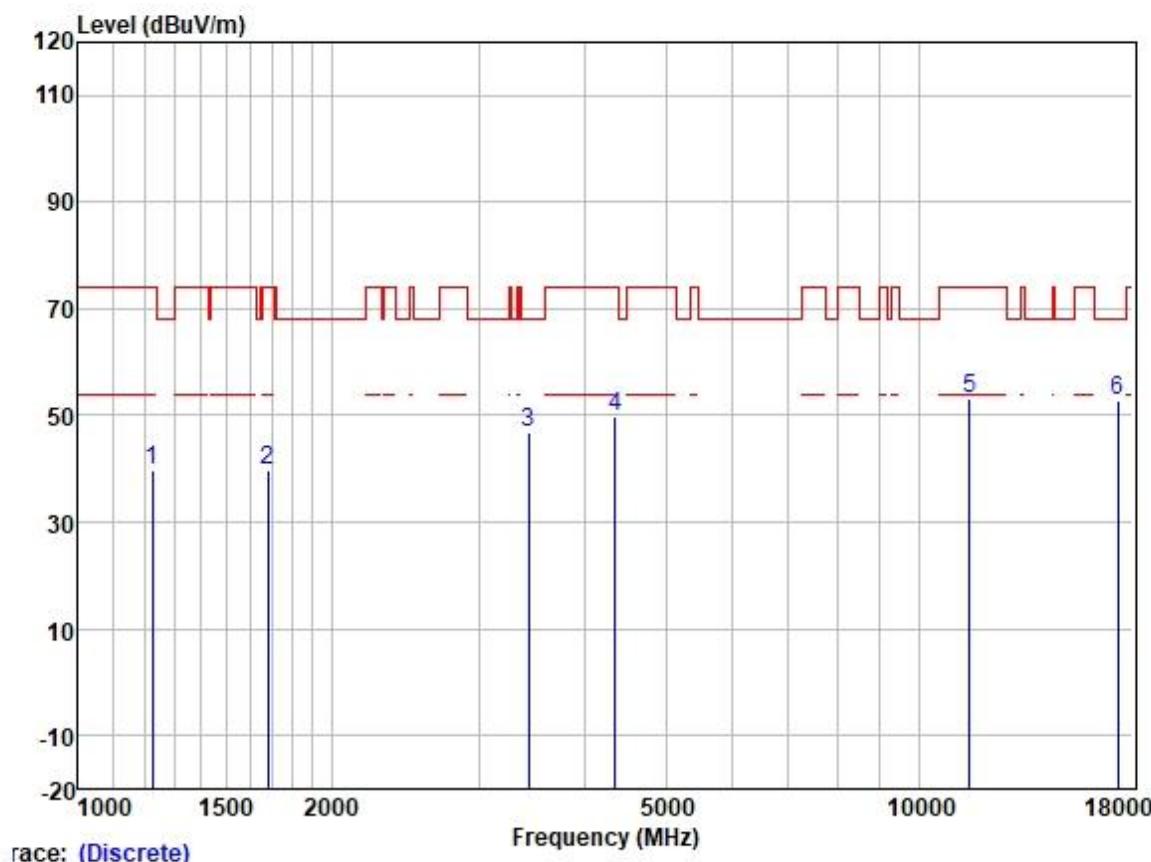


Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1224.247	50.98	24.85	2.31	38.37	39.77	74.00	-34.23	HORIZONTAL	Peak
2	1682.477	49.10	25.68	2.80	37.91	39.67	74.00	-34.33	HORIZONTAL	Peak
3	3435.590	50.65	28.87	4.16	36.97	46.71	68.20	-21.49	HORIZONTAL	Peak
4	4354.454	51.41	30.59	4.68	36.81	49.87	74.00	-24.13	HORIZONTAL	Peak
5	11510.000	41.99	39.90	8.41	37.15	53.15	74.00	-20.85	HORIZONTAL	Peak
6	17265.000	34.64	43.21	10.24	35.33	52.76	68.20	-15.44	HORIZONTAL	Peak

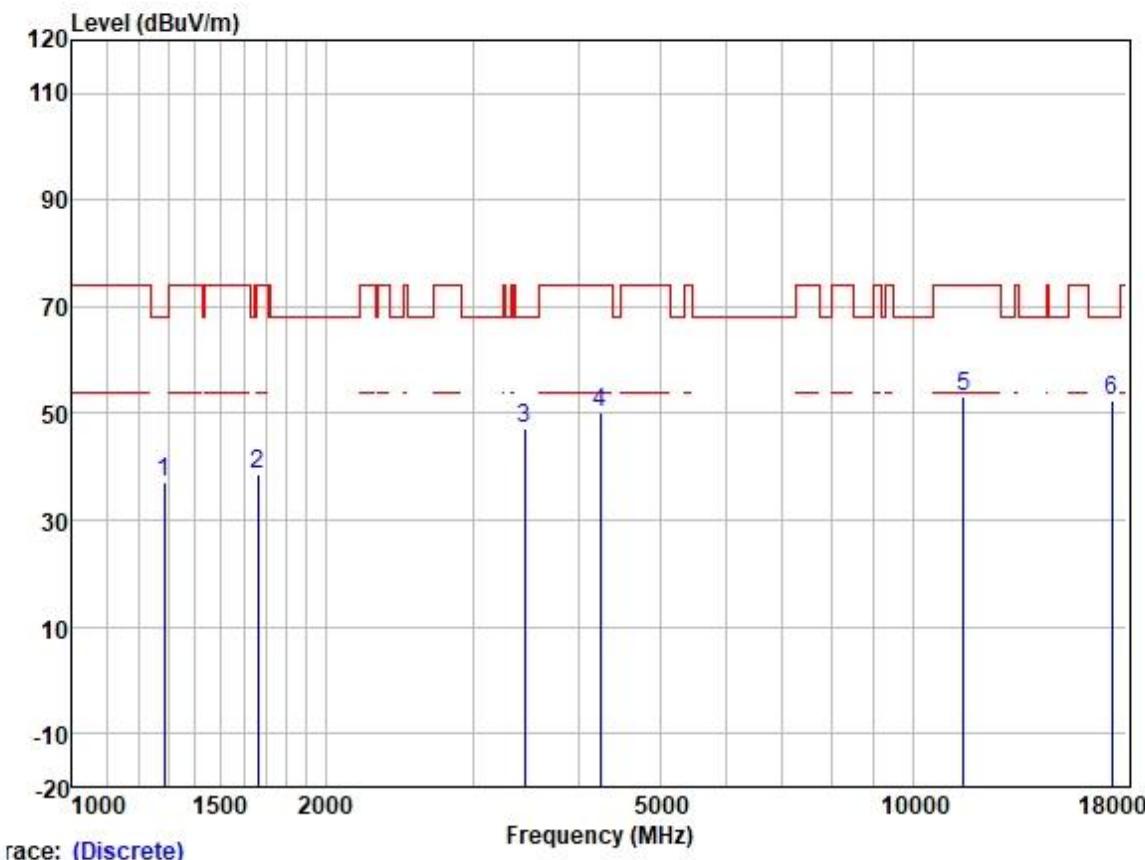
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low

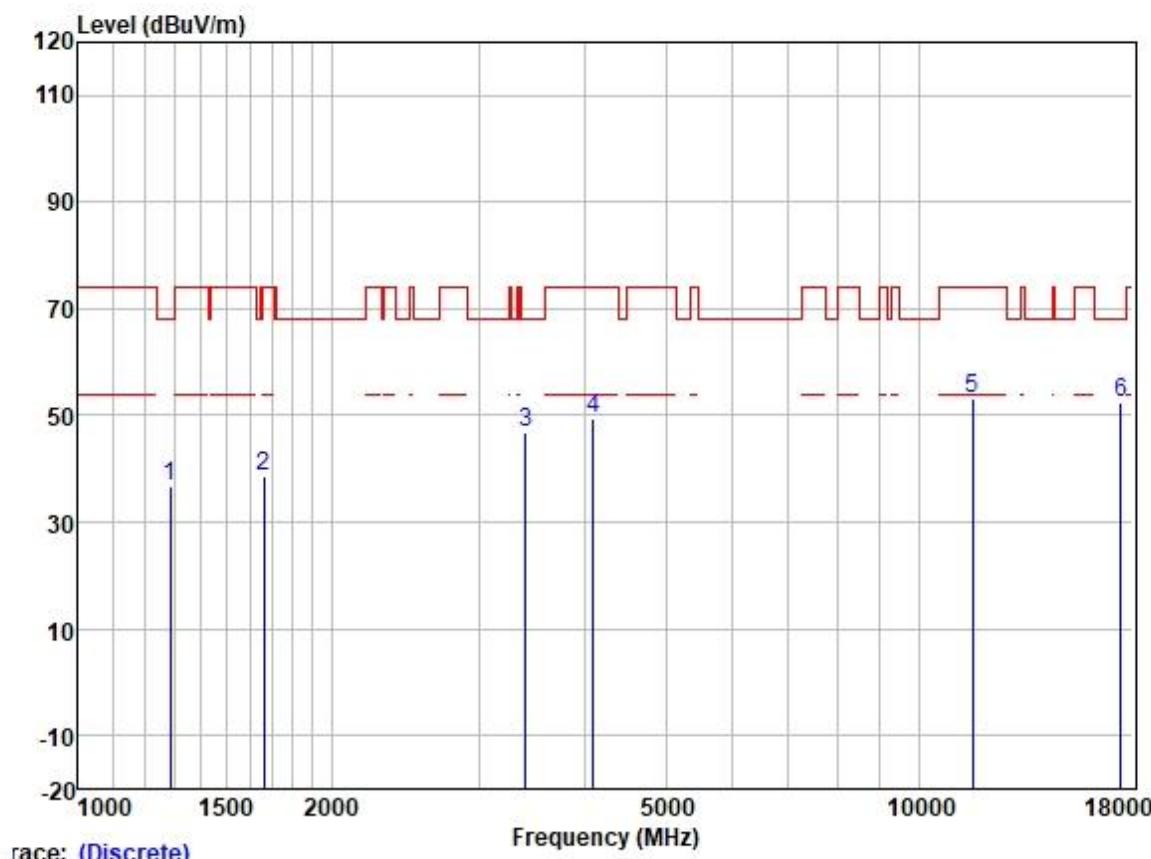


Freq	ReadAntenna		Cable		Preamp		Level	Limit	Over		Remark
	Level	Factor	Loss	Factor	Level	Line			Limit	Pol/Phase	
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m		dB	
1	1285.904	47.80	25.16	2.53	38.33	37.16	68.20	-31.04	VERTICAL	Peak	
2	1663.137	48.22	25.65	2.80	37.91	38.76	74.00	-35.24	VERTICAL	Peak	
3	3455.508	51.03	28.88	4.20	36.96	47.15	68.20	-21.05	VERTICAL	Peak	
4	4242.641	52.24	30.30	4.62	36.81	50.35	74.00	-23.65	VERTICAL	Peak	
5	11510.000	42.04	39.90	8.41	37.15	53.20	74.00	-20.80	VERTICAL	Peak	
6	17265.000	34.43	43.21	10.24	35.33	52.55	68.20	-15.65	VERTICAL	Peak	

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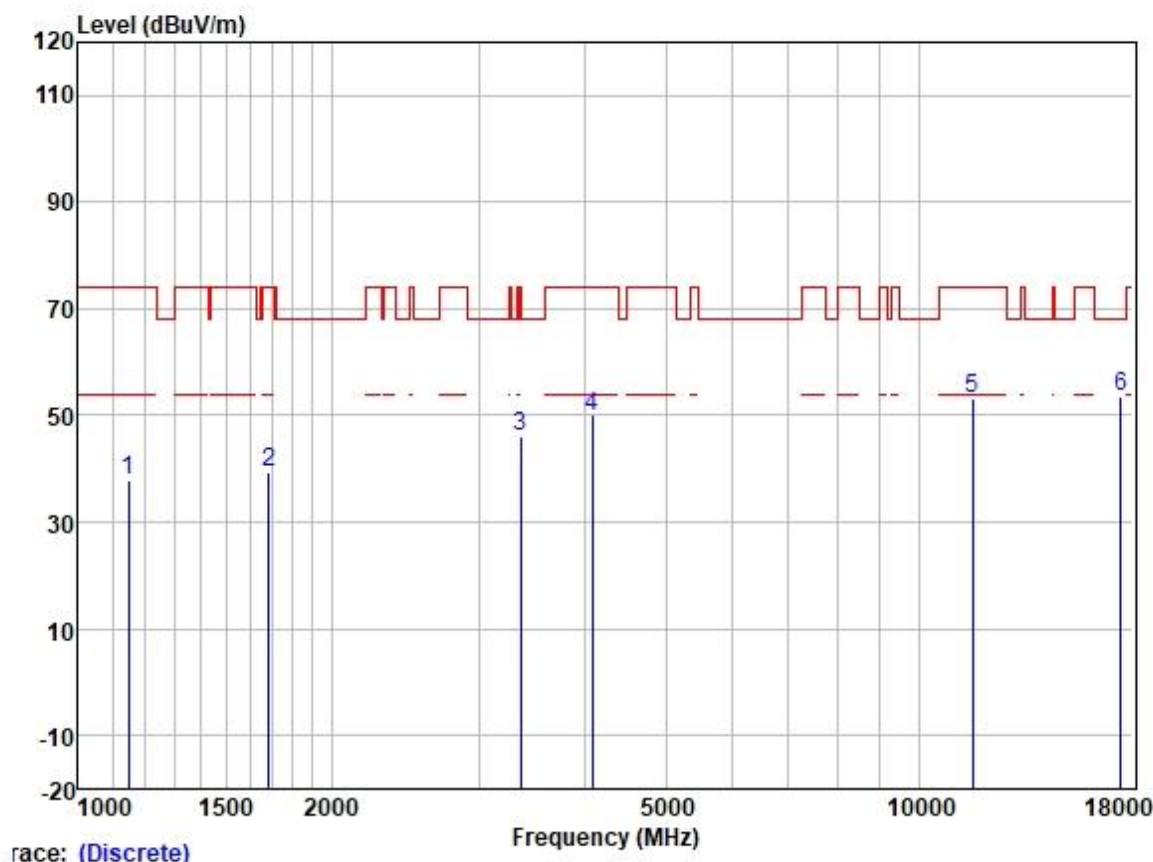
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



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



Race:	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
		Freq	Level	Antenna	Factor						
	MHz	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1148.823	49.38	24.49	2.34	38.42	37.79	74.00	-36.21	VERTICAL	Peak	
2	1687.347	48.78	25.69	2.80	37.91	39.36	74.00	-34.64	VERTICAL	Peak	
3	3357.061	50.28	28.81	4.09	37.01	46.17	74.00	-27.83	VERTICAL	Peak	
4	4086.182	52.28	29.92	4.60	36.80	50.00	74.00	-24.00	VERTICAL	Peak	
5	11590.000	42.16	39.72	8.37	37.14	53.11	74.00	-20.89	VERTICAL	Peak	
6	17385.000	34.80	43.57	10.53	35.32	53.58	68.20	-14.62	VERTICAL	Peak	

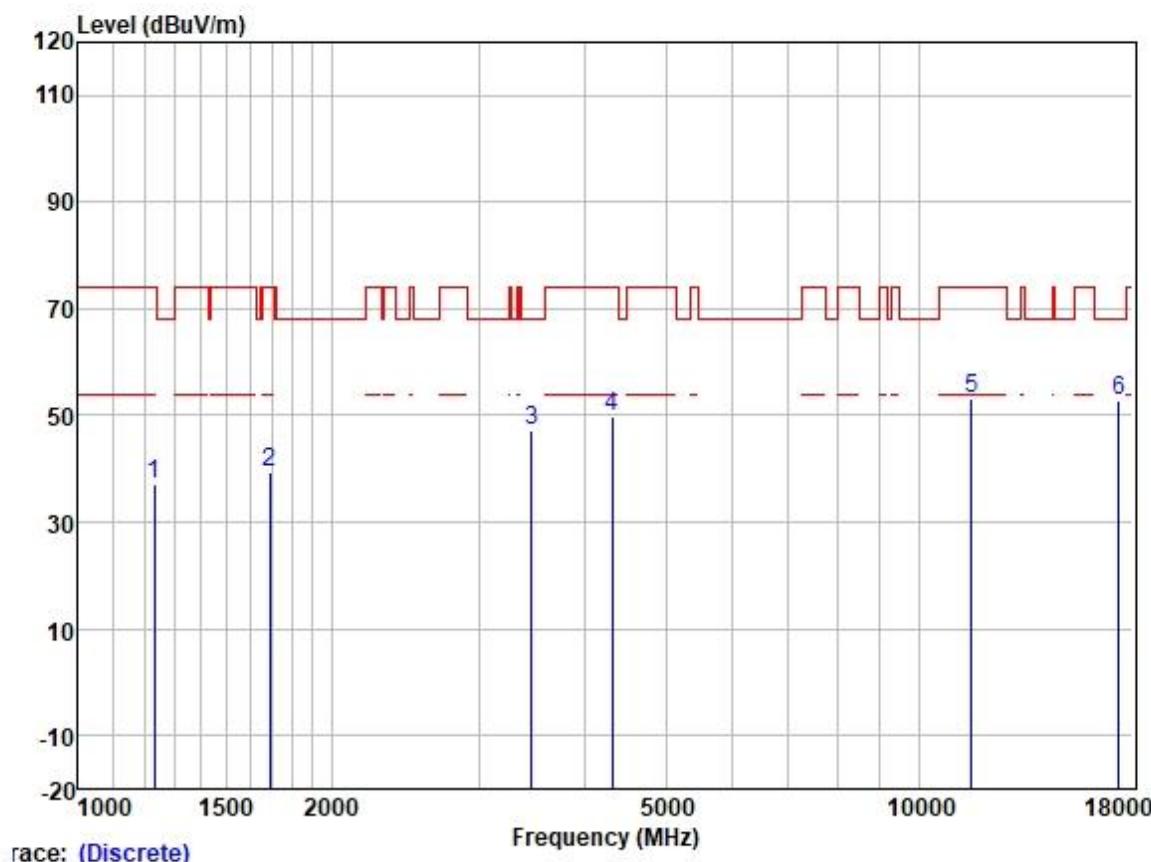
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Rate: (Discrete)

Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Line Limit	Over Limit	Pol/Phase	Remark	
									MHz	dBuV
									dB	dB/m
1	1231.345	48.28	24.91	2.31	38.37	37.13	74.00	-36.87	HORIZONTAL	Peak
2	1692.231	48.62	25.70	2.80	37.89	39.23	74.00	-34.77	HORIZONTAL	Peak
3	3465.510	51.04	28.88	4.22	36.95	47.19	68.20	-21.01	HORIZONTAL	Peak
4	4316.859	51.28	30.51	4.66	36.81	49.64	74.00	-24.36	HORIZONTAL	Peak
5	11550.000	42.18	39.84	8.40	37.14	53.28	74.00	-20.72	HORIZONTAL	Peak
6	17325.000	34.34	43.40	10.39	35.32	52.81	68.20	-15.39	HORIZONTAL	Peak

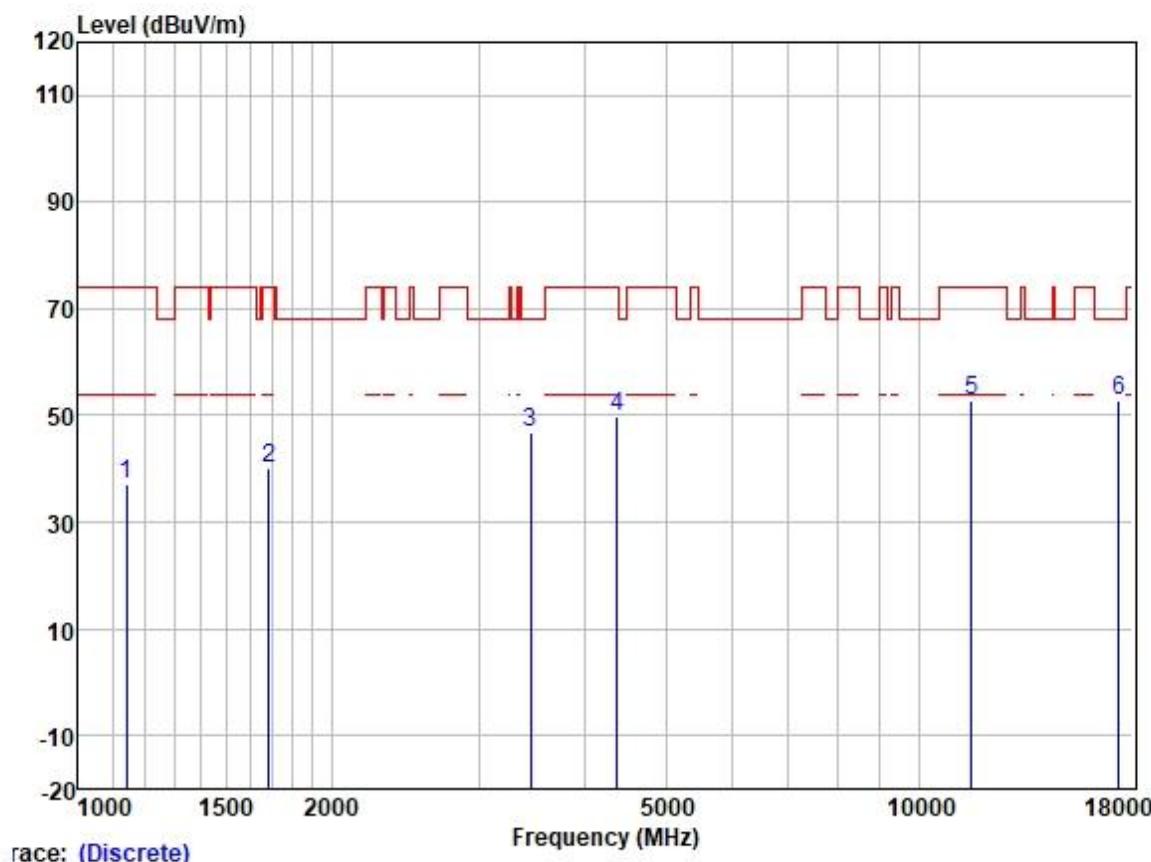
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Rate: (Discrete)

Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Limit Level	Line Limit	Over Limit	Pol/Phase	Remark	
									MHz	dBuV
									dB	dB/m
1	1142.201	48.71	24.47	2.30	38.42	37.06	74.00	-36.94	VERTICAL	Peak
2	1687.347	49.50	25.69	2.80	37.91	40.08	74.00	-33.92	VERTICAL	Peak
3	3455.508	50.62	28.88	4.20	36.96	46.74	68.20	-21.46	VERTICAL	Peak
4	4379.699	51.26	30.64	4.69	36.81	49.78	74.00	-24.22	VERTICAL	Peak
5	11550.000	41.57	39.84	8.40	37.14	52.67	74.00	-21.33	VERTICAL	Peak
6	17325.000	34.42	43.40	10.39	35.32	52.89	68.20	-15.31	VERTICAL	Peak

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7.10 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 53.5 % RH Atmospheric Pressure: 1003 mbar

7.10.2 Test Mode Description

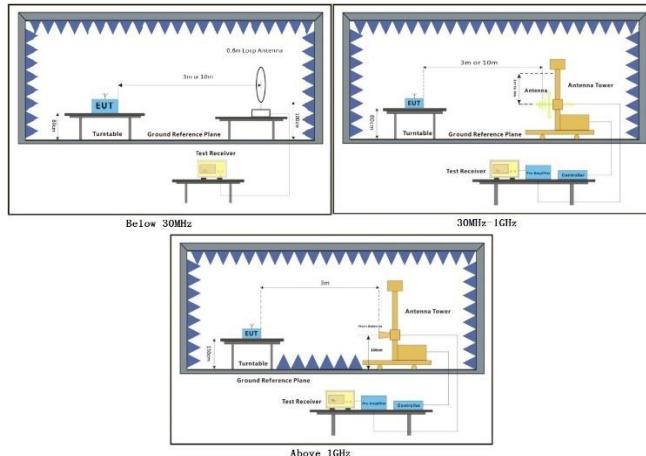
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	03	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

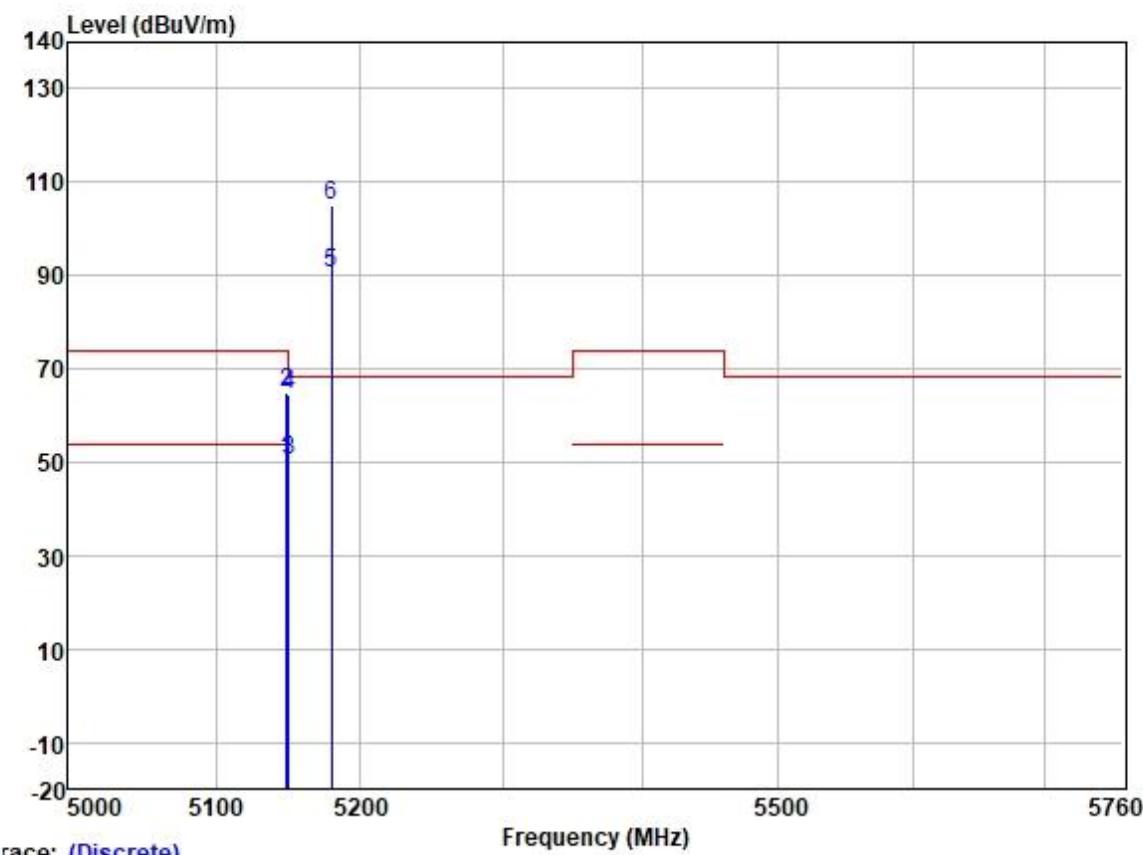
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss					
1	5148.357	49.90	31.72	5.62	36.86	50.38	54.00	-3.62	HORIZONTAL Average
2	5148.357	64.48	31.72	5.62	36.86	64.96	74.00	-9.04	HORIZONTAL Peak
3	5149.980	50.12	31.72	5.62	36.86	50.60	54.00	-3.40	HORIZONTAL Average
4	5149.980	63.89	31.72	5.62	36.86	64.37	74.00	-9.63	HORIZONTAL Peak
5	5180.000	89.93	31.73	5.61	36.87	90.40	-----	-----	HORIZONTAL Average
6 *	5180.000	104.43	31.73	5.61	36.87	104.90	68.20	36.70	HORIZONTAL Peak

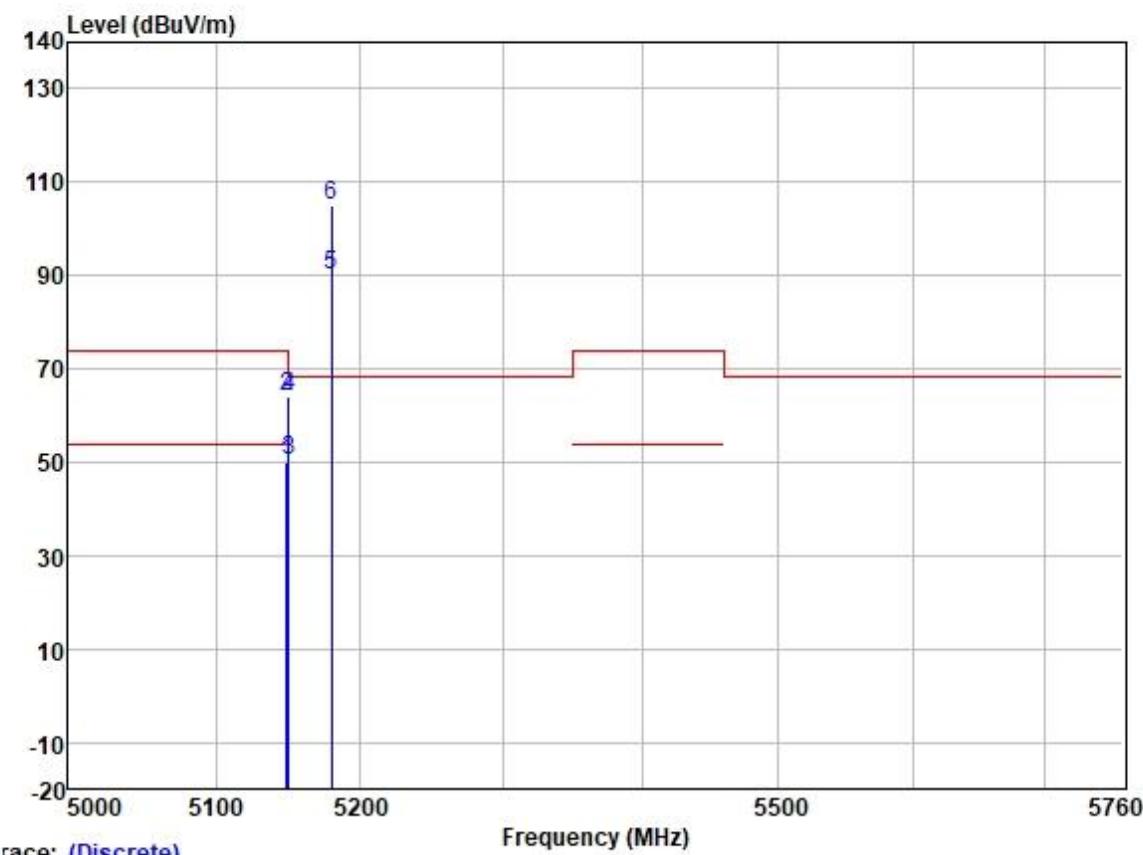
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor						
1	5148.558	49.66	31.72	5.62	36.86	50.14	54.00	-3.86	VERTICAL	Average
2	5149.458	63.44	31.72	5.62	36.86	63.92	74.00	-10.08	VERTICAL	Peak
3	5149.980	50.00	31.72	5.62	36.86	50.48	54.00	-3.52	VERTICAL	Average
4	5149.980	63.39	31.72	5.62	36.86	63.87	74.00	-10.13	VERTICAL	Peak
5	5180.000	89.65	31.73	5.61	36.87	90.12	-----	-----	VERTICAL	Average
6 *	5180.000	104.61	31.73	5.61	36.87	105.08	68.20	36.88	VERTICAL	Peak

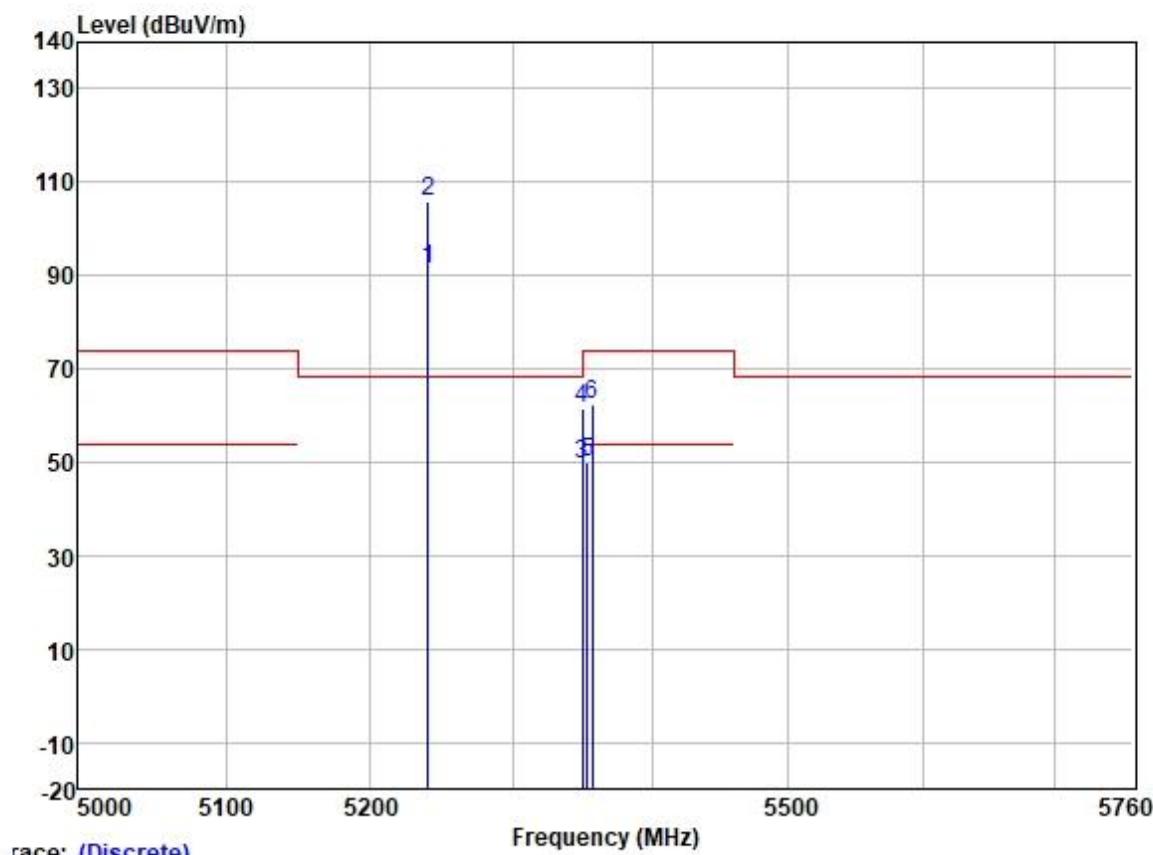
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



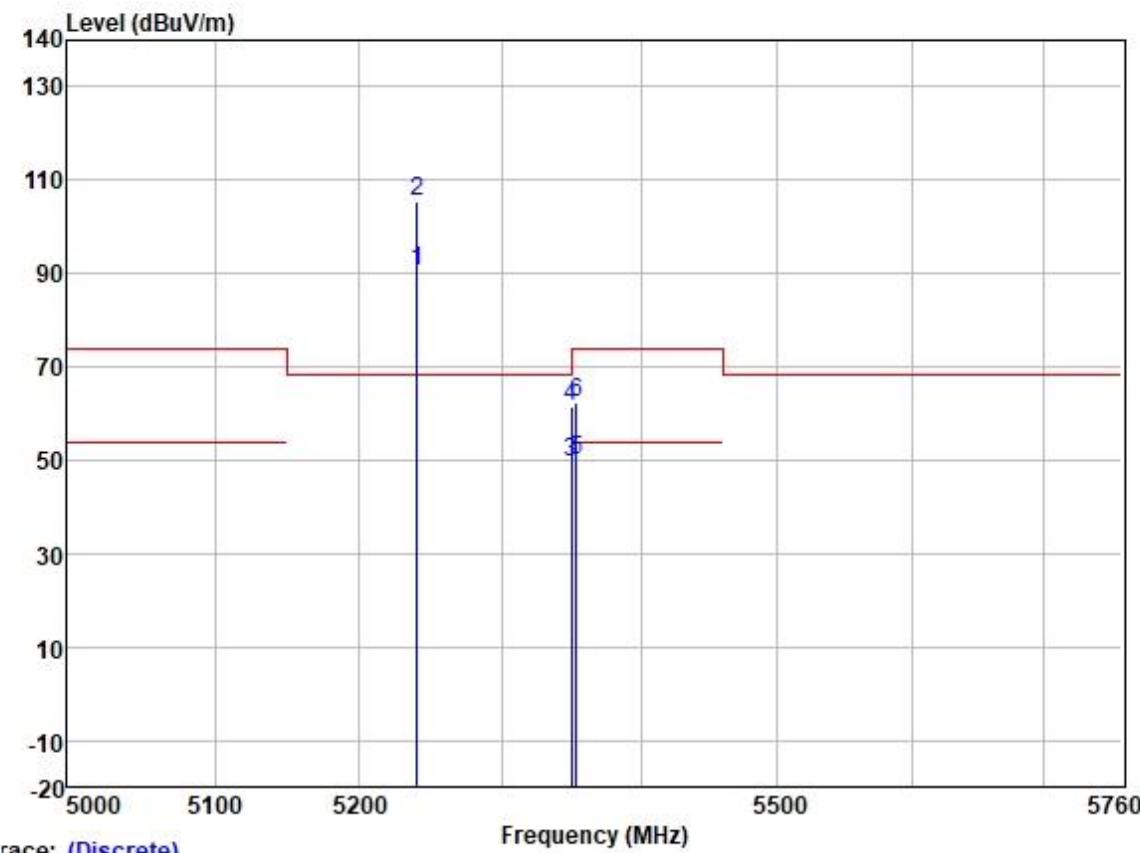
Trace: (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	Freq	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	90.80	31.75	5.74	36.87	91.42	-----	-----	HORIZONTAL	Average
2 *	5240.000	105.21	31.75	5.74	36.87	105.83	68.20	37.63	HORIZONTAL	Peak
3	5350.020	48.70	31.77	6.05	36.88	49.64	54.00	-4.36	HORIZONTAL	Average
4	5350.020	60.51	31.77	6.05	36.88	61.45	74.00	-12.55	HORIZONTAL	Peak
5	5353.195	48.96	31.77	6.05	36.88	49.90	54.00	-4.10	HORIZONTAL	Average
6	5356.738	61.52	31.78	6.03	36.88	62.45	74.00	-11.55	HORIZONTAL	Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



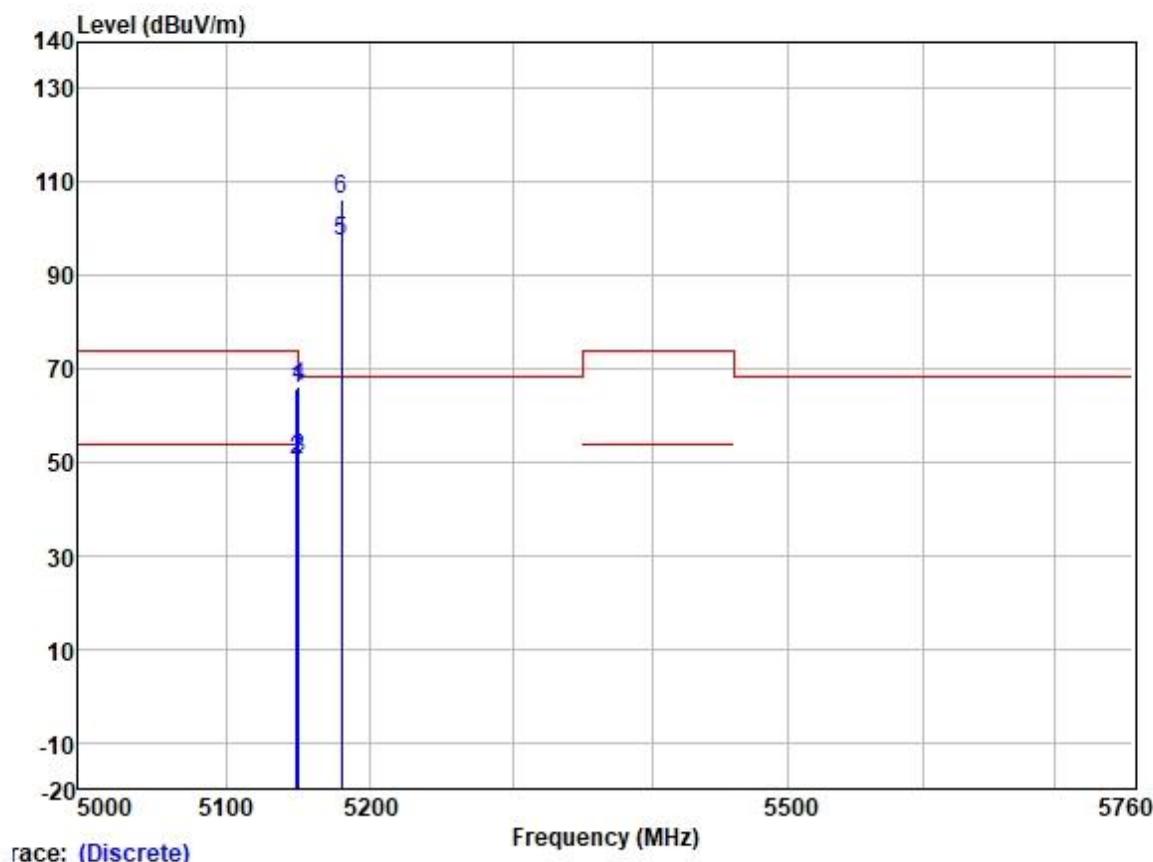
Trace: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	89.98	31.75	5.74	36.87	90.60	-----	-----	VERTICAL Average
2 *	5240.000	104.61	31.75	5.74	36.87	105.23	68.20	37.03	VERTICAL Peak
3	5350.020	48.69	31.77	6.05	36.88	49.63	54.00	-4.37	VERTICAL Average
4	5350.020	60.36	31.77	6.05	36.88	61.30	74.00	-12.70	VERTICAL Peak
5	5353.195	48.97	31.77	6.05	36.88	49.91	54.00	-4.09	VERTICAL Average
6	5353.195	61.61	31.77	6.05	36.88	62.55	74.00	-11.45	VERTICAL Peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Mode: (Discrete)

ReadAntenna	Cable	Preamp	Limit	Over	Remark								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB		
1 5148.357	65.17	31.72	5.62	36.86	65.65	74.00	-8.35	HORIZONTAL	Peak				
2 5148.558	50.08	31.72	5.62	36.86	50.56	54.00	-3.44	HORIZONTAL	Average				
3 5149.980	50.22	31.72	5.62	36.86	50.70	54.00	-3.30	HORIZONTAL	Average				
4 5149.980	65.61	31.72	5.62	36.86	66.09	74.00	-7.91	HORIZONTAL	Peak				
5 5180.000	96.84	31.73	5.61	36.87	97.31	-----	-----	HORIZONTAL	Average				
6 * 5180.000	105.81	31.73	5.61	36.87	106.28	68.20	38.08	HORIZONTAL	Peak				

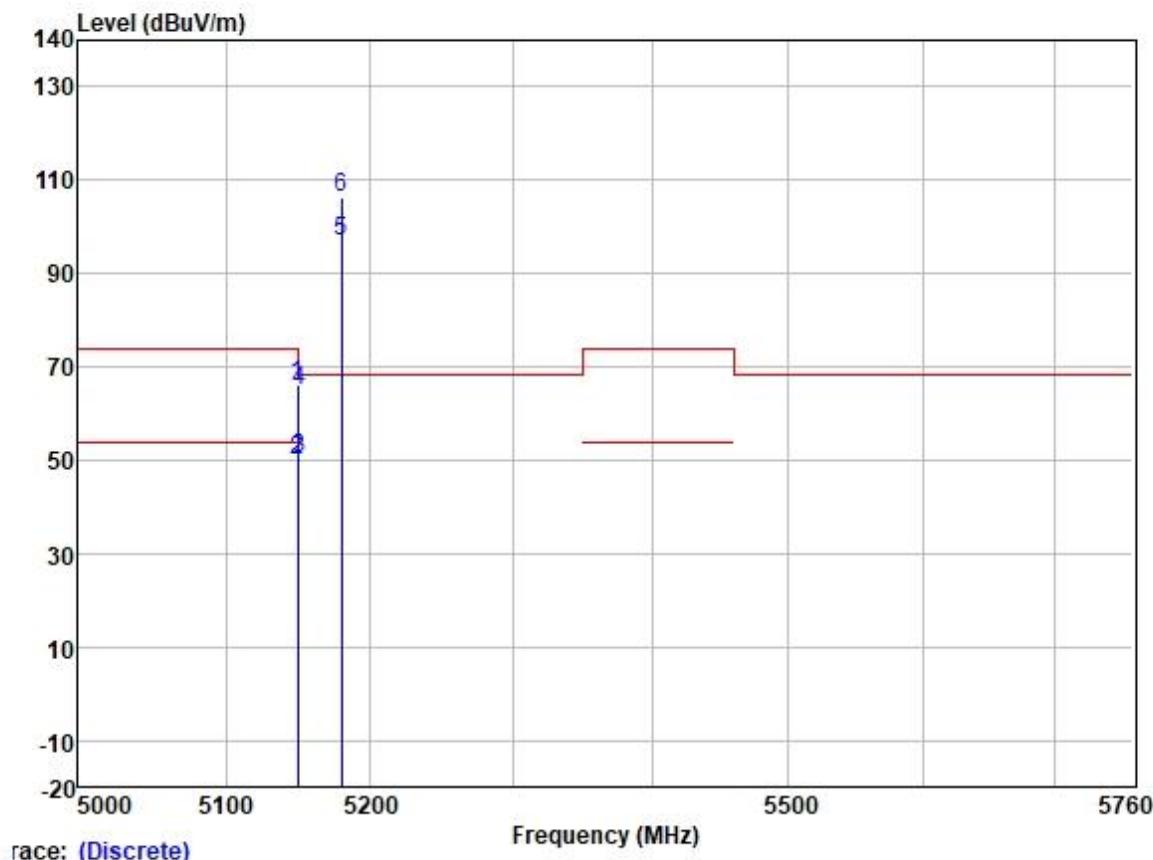
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 5149.057	65.71	31.72	5.62	36.86	66.19	74.00	-7.81	VERTICAL	Peak		
2 5149.357	49.56	31.72	5.62	36.86	50.04	54.00	-3.96	VERTICAL	Average		
3 5149.980	49.72	31.72	5.62	36.86	50.20	54.00	-3.80	VERTICAL	Average		
4 5149.980	64.60	31.72	5.62	36.86	65.08	74.00	-8.92	VERTICAL	Peak		
5 5180.000	96.44	31.73	5.61	36.87	96.91	-----	-----	VERTICAL	Average		
6 * 5180.000	105.79	31.73	5.61	36.87	106.26	68.20	38.06	VERTICAL	Peak		

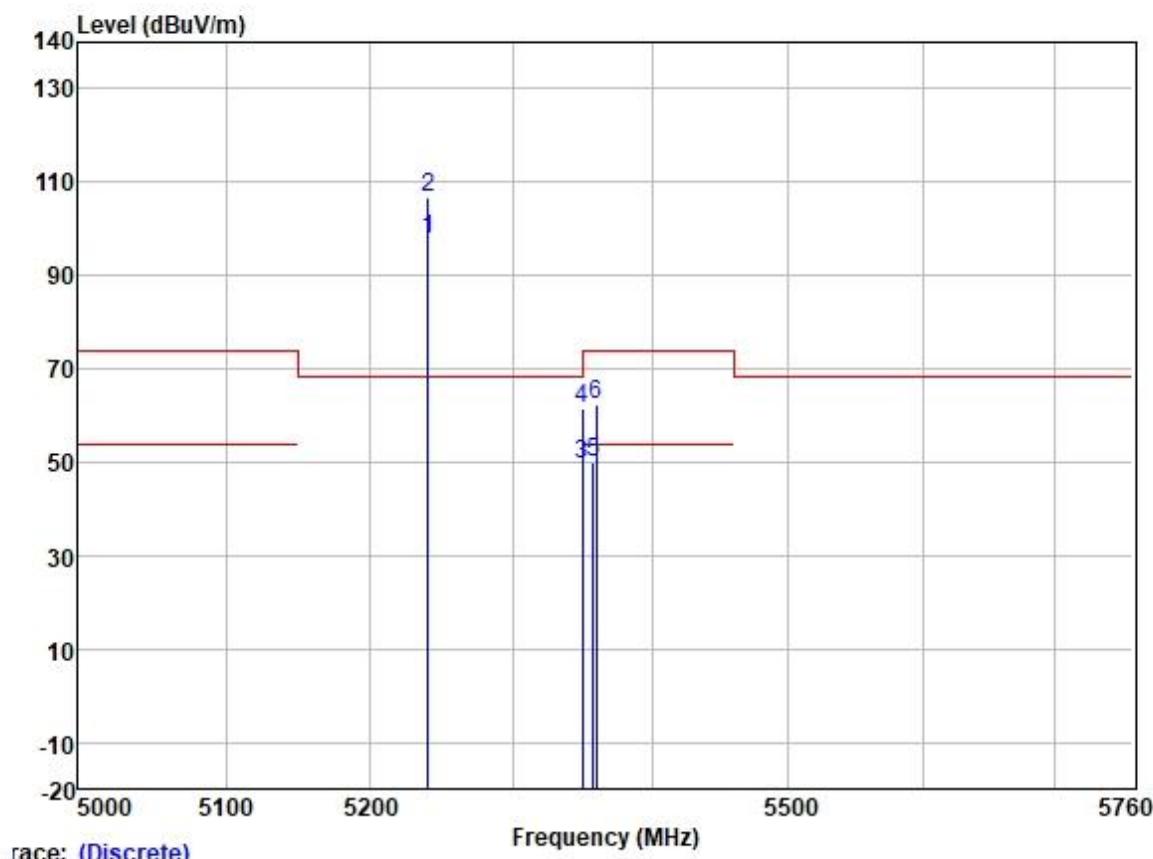
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Sample: (Discrete)	ReadAntenna	Cable	Preamp	Limit		Over	Pol/Phase	Remark					
				Freq	Level	Factor	Loss	Factor	Level	Line	Line	Pol/Phase	Remark
	MHz	dBuV	dB/m				dB	dB	dBuV/m	dBuV/m			
1	5240.000	96.95	31.75	5.74	36.87	97.57	-----	-----	-----	-----	-----	HORIZONTAL	Average
2 *	5240.000	106.05	31.75	5.74	36.87	106.67	68.20	38.47	106.67	68.20	38.47	HORIZONTAL	Peak
3	5350.020	48.81	31.77	6.05	36.88	49.75	54.00	-4.25	54.00	54.00	-4.25	HORIZONTAL	Average
4	5350.020	60.41	31.77	6.05	36.88	61.35	74.00	-12.65	74.00	74.00	-12.65	HORIZONTAL	Peak
5	5357.873	48.93	31.78	6.03	36.88	49.86	54.00	-4.14	54.00	54.00	-4.14	HORIZONTAL	Average
6	5359.858	61.59	31.78	6.03	36.88	62.52	74.00	-11.48	74.00	74.00	-11.48	HORIZONTAL	Peak

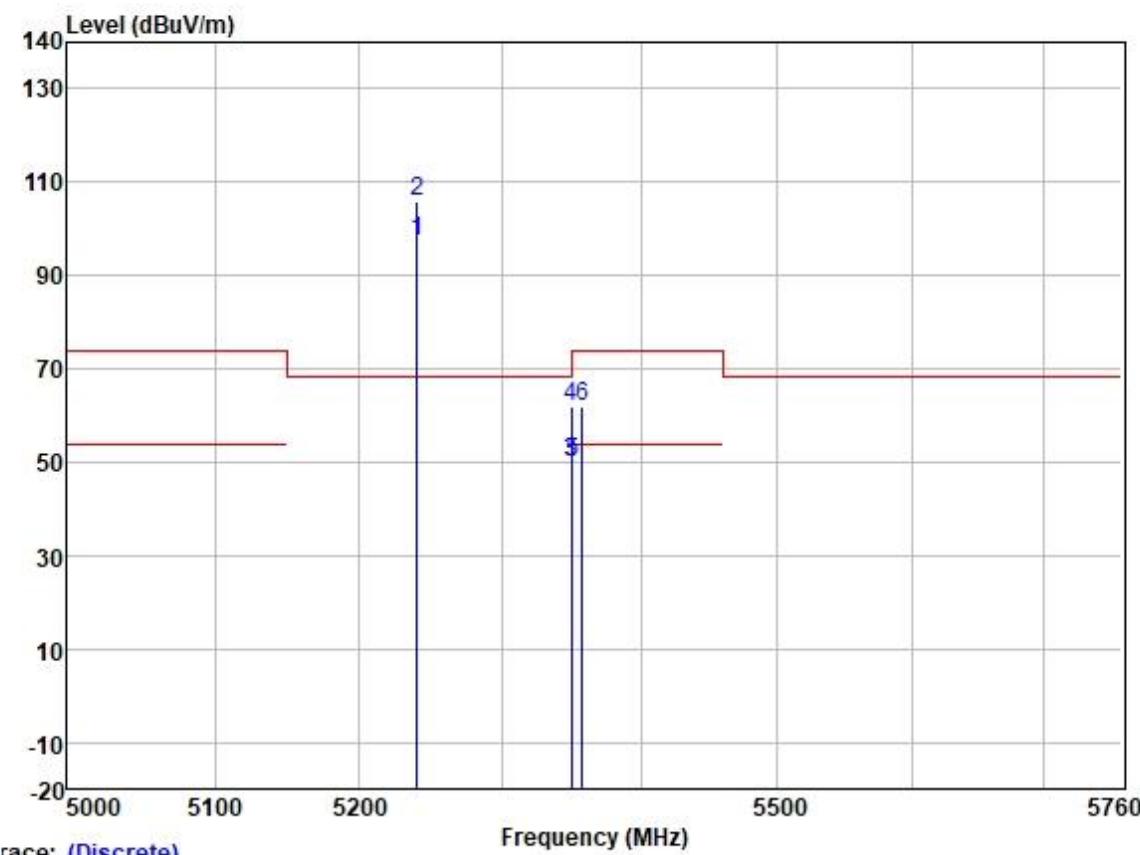
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



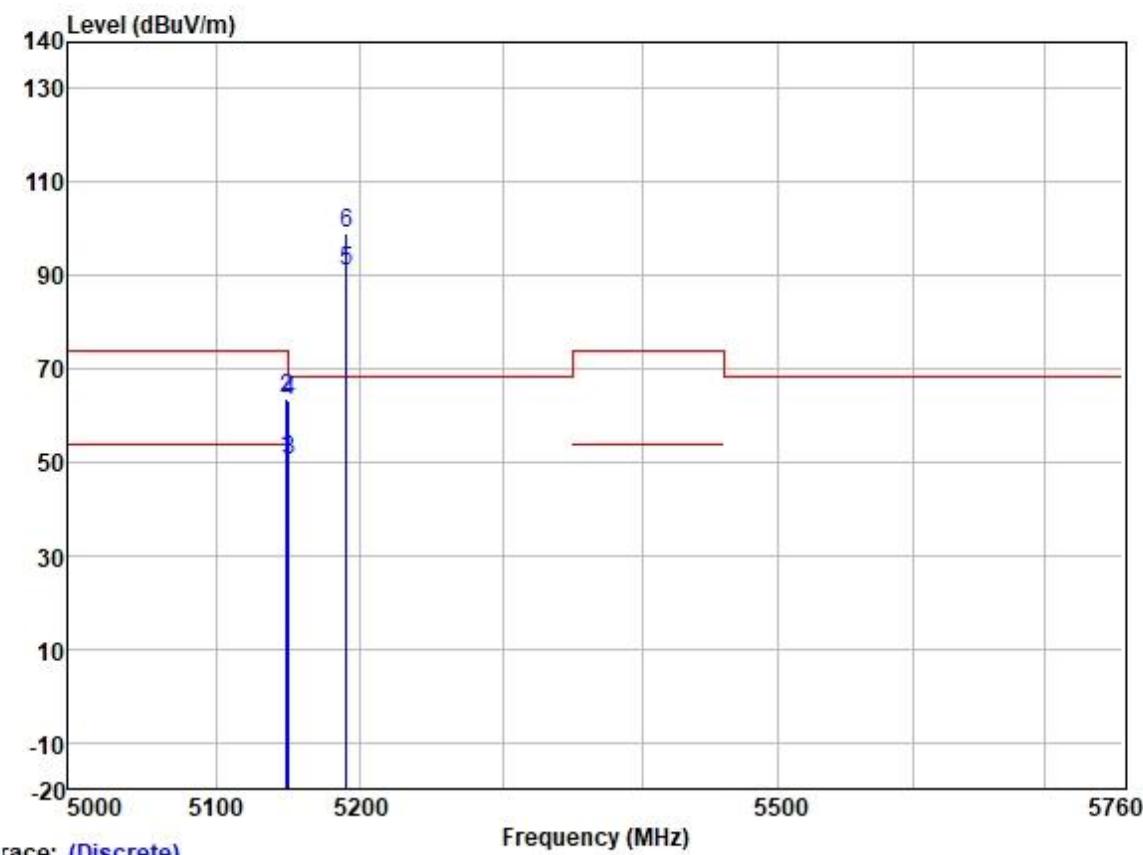
	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	96.52	31.75	5.74	36.87	97.14	-----	-----	VERTICAL Average
2 *	5240.000	105.04	31.75	5.74	36.87	105.66	68.20	37.46	VERTICAL Peak
3	5350.020	48.83	31.77	6.05	36.88	49.77	54.00	-4.23	VERTICAL Average
4	5350.020	60.89	31.77	6.05	36.88	61.83	74.00	-12.17	VERTICAL Peak
5	5350.362	48.96	31.77	6.05	36.88	49.90	54.00	-4.10	VERTICAL Average
6	5357.305	61.13	31.78	6.03	36.88	62.06	74.00	-11.94	VERTICAL Peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Mode: (Discrete)

ReadAntenna	Cable	Preamp	Limit	Over	Remark								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB		
1 5148.384	50.20	31.72	5.62	36.86	50.68	54.00	-3.32	HORIZONTAL	Average				
2 5148.384	63.32	31.72	5.62	36.86	63.80	74.00	-10.20	HORIZONTAL	Peak				
3 5149.980	49.91	31.72	5.62	36.86	50.39	54.00	-3.61	HORIZONTAL	Average				
4 5149.980	62.81	31.72	5.62	36.86	63.29	74.00	-10.71	HORIZONTAL	Peak				
5 5190.000	90.43	31.73	5.60	36.87	90.89	-----	-----	HORIZONTAL	Average				
6 * 5190.000	98.49	31.73	5.60	36.87	98.95	68.20	30.75	HORIZONTAL	Peak				

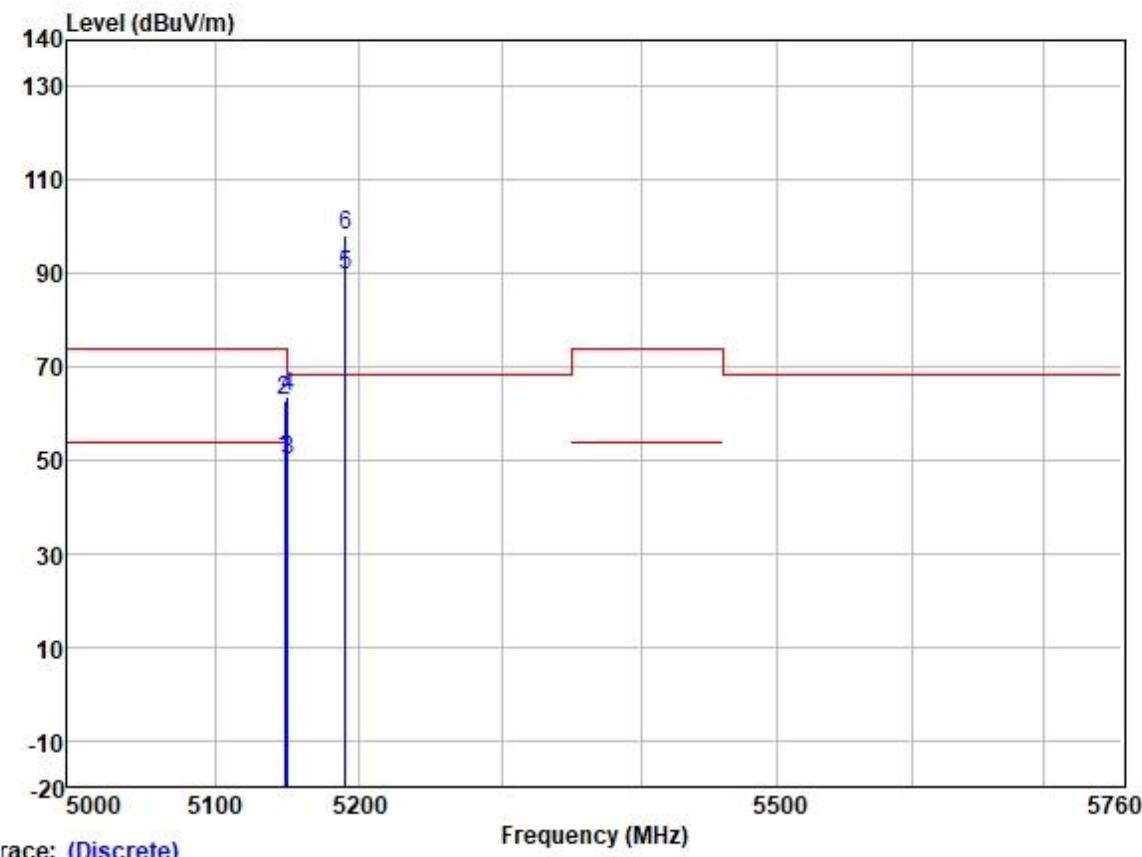
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Race: (Discrete)

	Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
		MHz	dBuV	Level Factor	Loss Factor						
1	5147.666	50.10	31.72	5.62	36.86	50.58	54.00	-3.42	VERTICAL	Average	
2	5147.666	62.35	31.72	5.62	36.86	62.83	74.00	-11.17	VERTICAL	Peak	
3	5149.980	49.70	31.72	5.62	36.86	50.18	54.00	-3.82	VERTICAL	Average	
4	5149.980	63.09	31.72	5.62	36.86	63.57	74.00	-10.43	VERTICAL	Peak	
5	5190.000	89.34	31.73	5.60	36.87	89.80	-----	-----	VERTICAL	Average	
6 *	5190.000	97.91	31.73	5.60	36.87	98.37	68.20	30.17	VERTICAL	Peak	

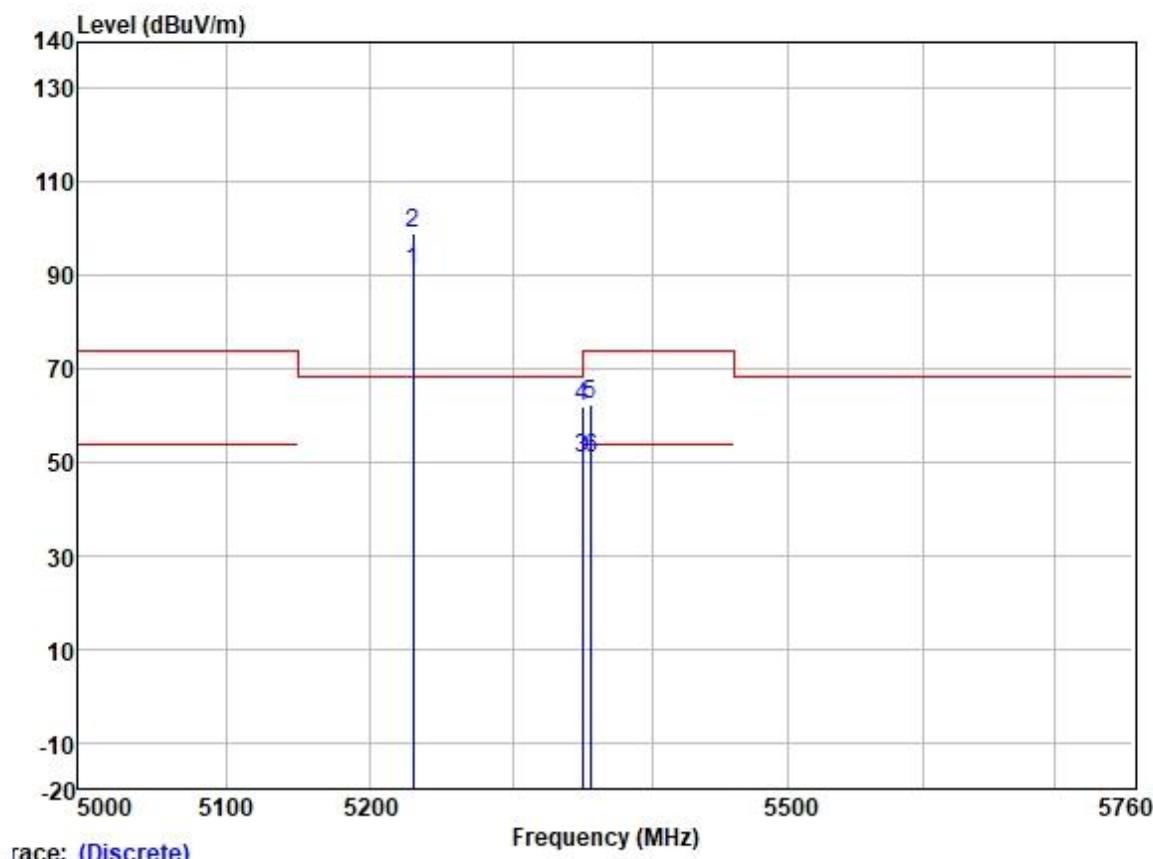
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



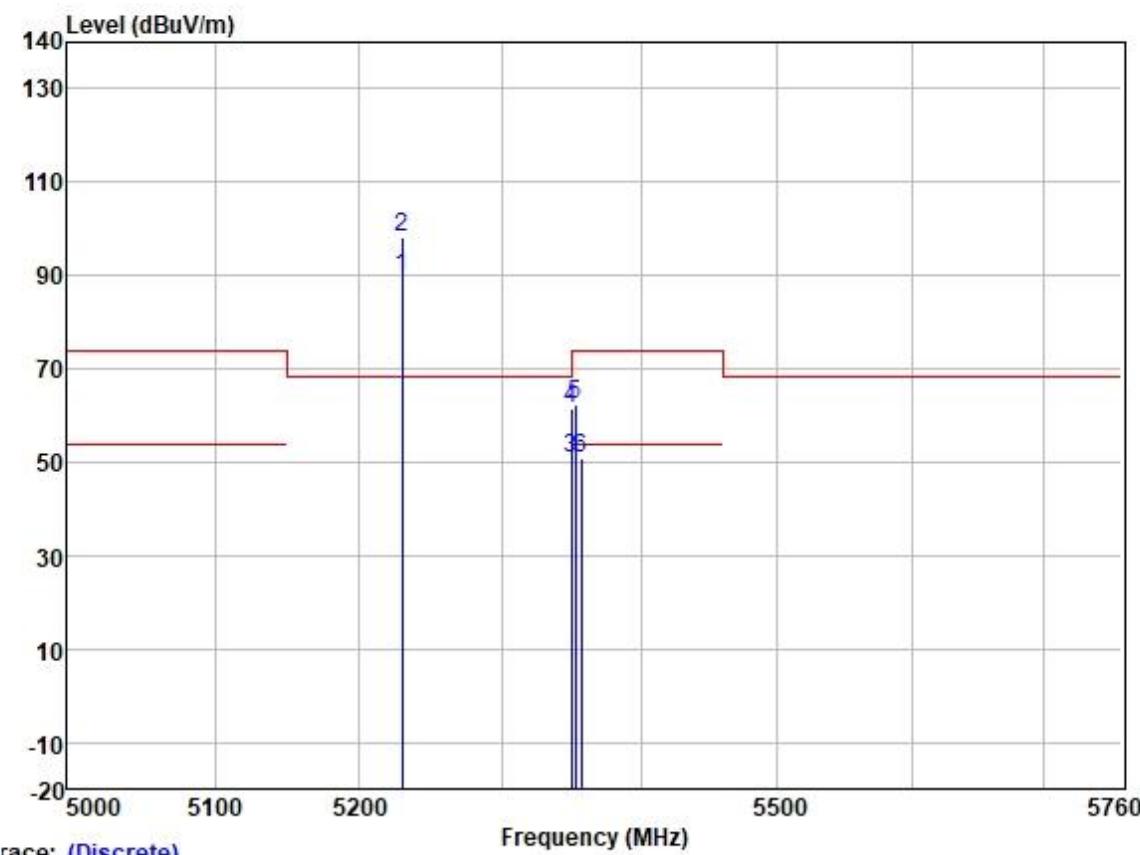
Index	Frequency (MHz)	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	90.46	31.74	5.70	36.87	91.03	-----	-----	HORIZONTAL	Average
2 *	5230.000	98.61	31.74	5.70	36.87	99.18	68.20	30.98	HORIZONTAL	Peak
3	5350.020	49.86	31.77	6.05	36.88	50.80	54.00	-3.20	HORIZONTAL	Average
4	5350.020	61.16	31.77	6.05	36.88	62.10	74.00	-11.90	HORIZONTAL	Peak
5	5355.292	61.39	31.78	6.03	36.88	62.32	74.00	-11.68	HORIZONTAL	Peak
6	5356.265	49.70	31.78	6.03	36.88	50.63	54.00	-3.37	HORIZONTAL	Average

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



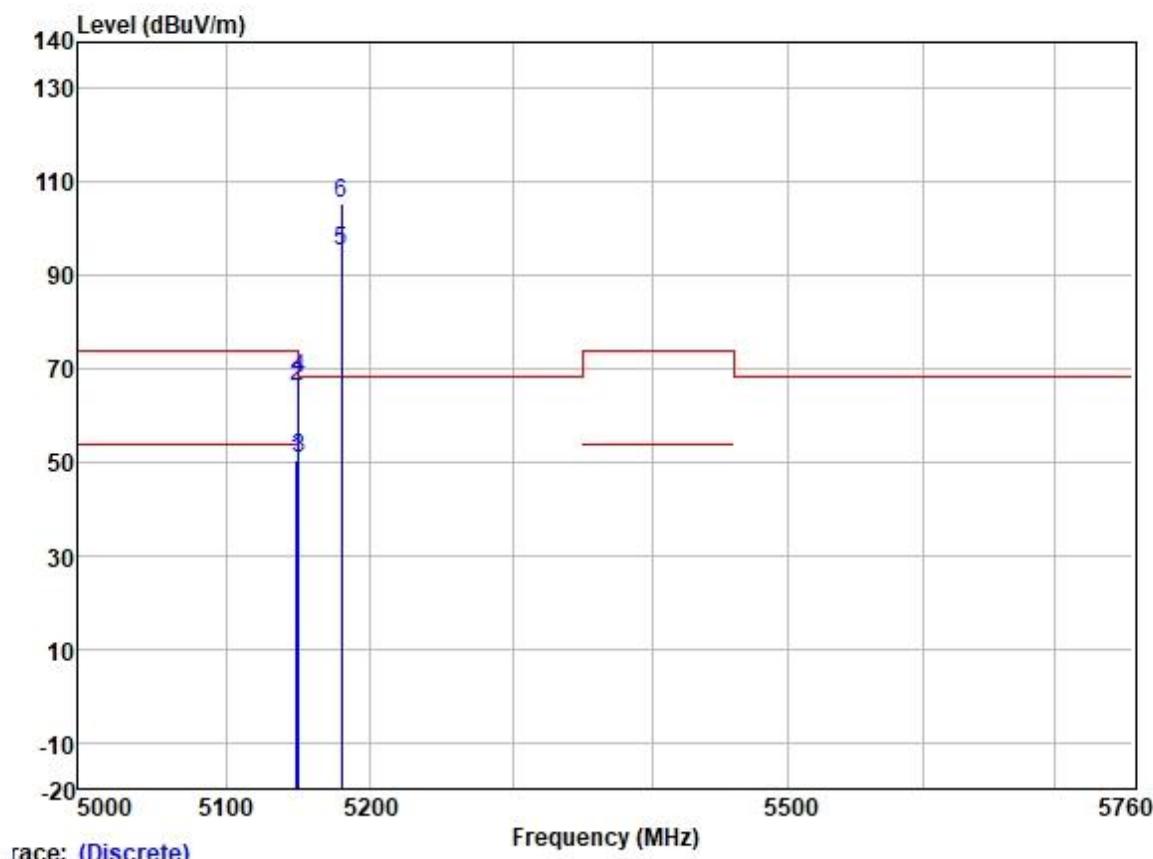
Race: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5230.000	89.24	31.74	5.70	36.87	89.81	-----	-----	VERTICAL	Average
2 *	5230.000	97.54	31.74	5.70	36.87	98.11	68.20	29.91	VERTICAL	Peak
3	5350.020	49.73	31.77	6.05	36.88	50.67	54.00	-3.33	VERTICAL	Average
4	5350.020	60.52	31.77	6.05	36.88	61.46	74.00	-12.54	VERTICAL	Peak
5	5352.533	61.55	31.77	6.05	36.88	62.49	74.00	-11.51	VERTICAL	Peak
6	5357.239	49.72	31.78	6.03	36.88	50.65	54.00	-3.35	VERTICAL	Average

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5148.857	50.01	31.72	5.62	36.86	50.49	54.00	-3.51	HORIZONTAL Average
2	5149.157	65.70	31.72	5.62	36.86	66.18	74.00	-7.82	HORIZONTAL Peak
3	5149.980	50.18	31.72	5.62	36.86	50.66	54.00	-3.34	HORIZONTAL Average
4	5149.980	67.25	31.72	5.62	36.86	67.73	74.00	-6.27	HORIZONTAL Peak
5	5180.000	94.77	31.73	5.61	36.87	95.24	-----	-----	HORIZONTAL Average
6 *	5180.000	105.02	31.73	5.61	36.87	105.49	68.20	37.29	HORIZONTAL Peak

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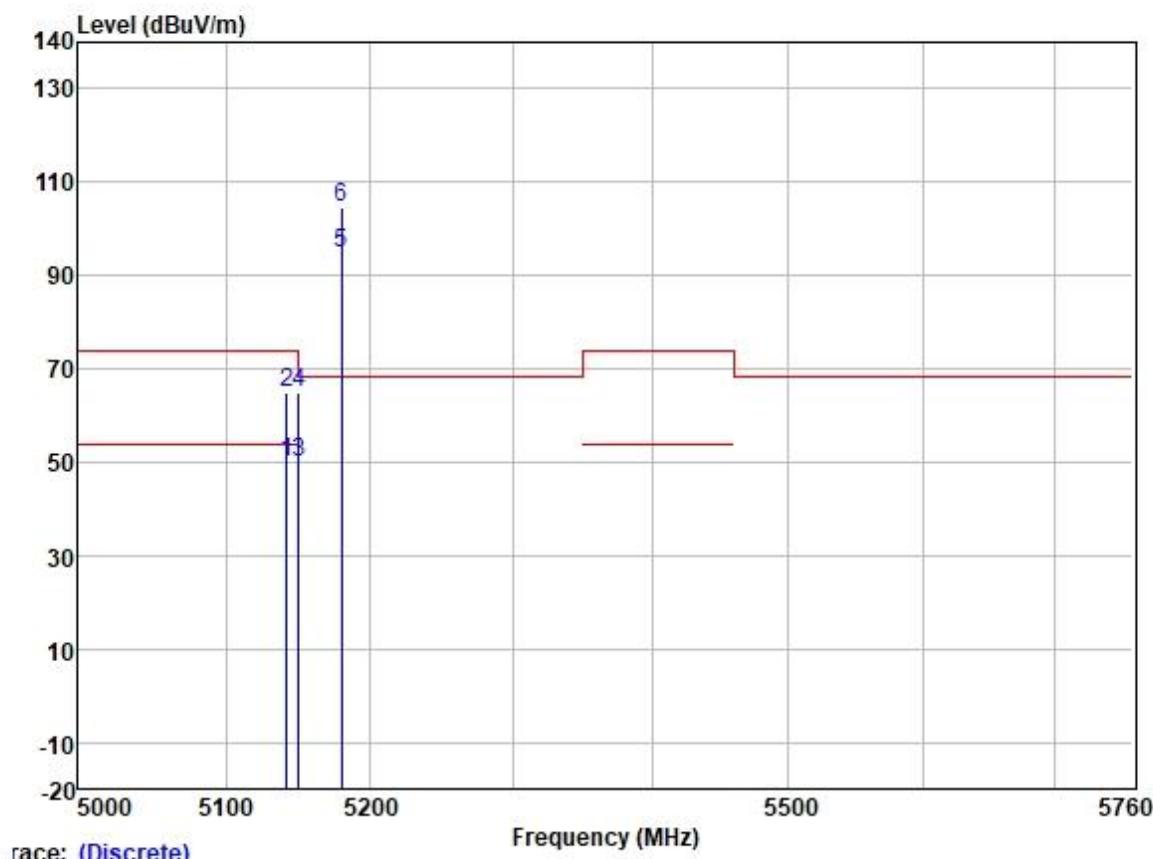
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5142.063	49.43	31.72	5.62	36.86	49.91	54.00	-4.09	VERTICAL Average
2	5142.063	64.57	31.72	5.62	36.86	65.05	74.00	-8.95	VERTICAL Peak
3	5149.980	49.38	31.72	5.62	36.86	49.86	54.00	-4.14	VERTICAL Average
4	5149.980	64.48	31.72	5.62	36.86	64.96	74.00	-9.04	VERTICAL Peak
5	5180.000	94.38	31.73	5.61	36.87	94.85	-----	-----	VERTICAL Average
6 *	5180.000	104.17	31.73	5.61	36.87	104.64	68.20	36.44	VERTICAL Peak

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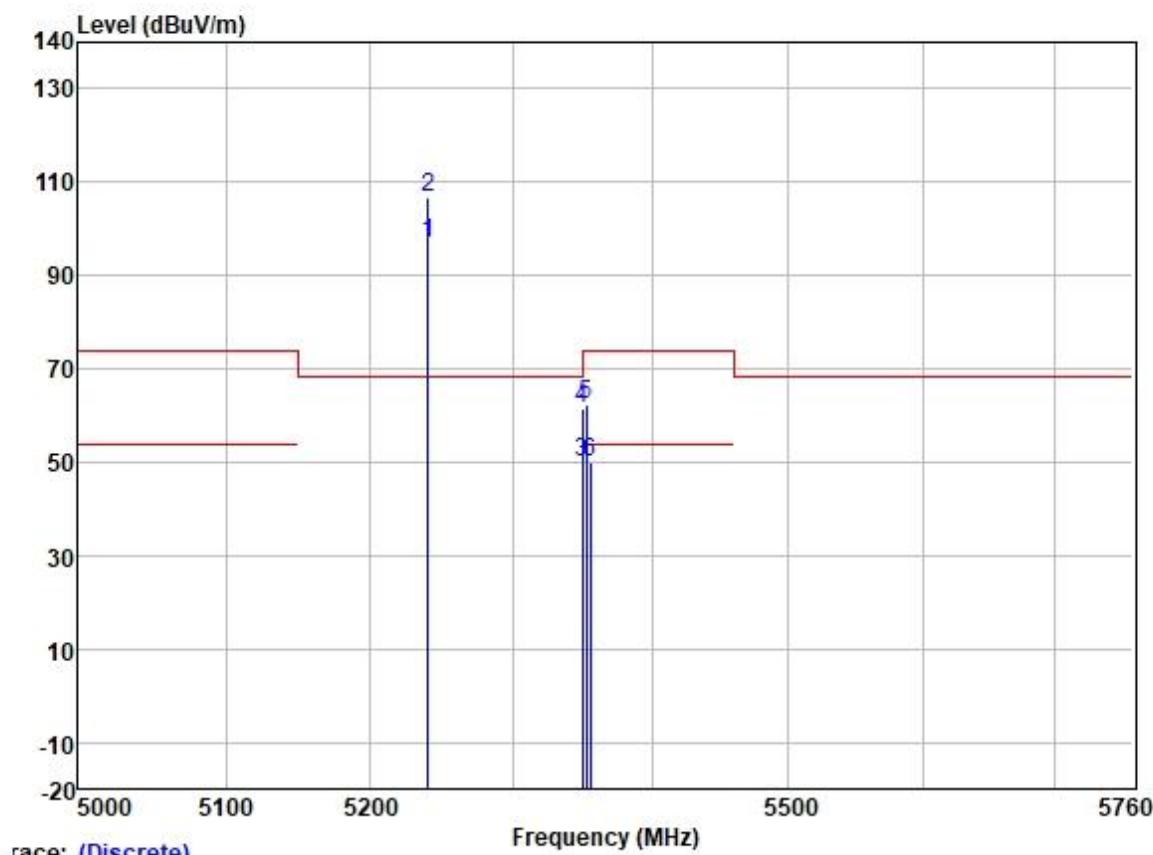


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



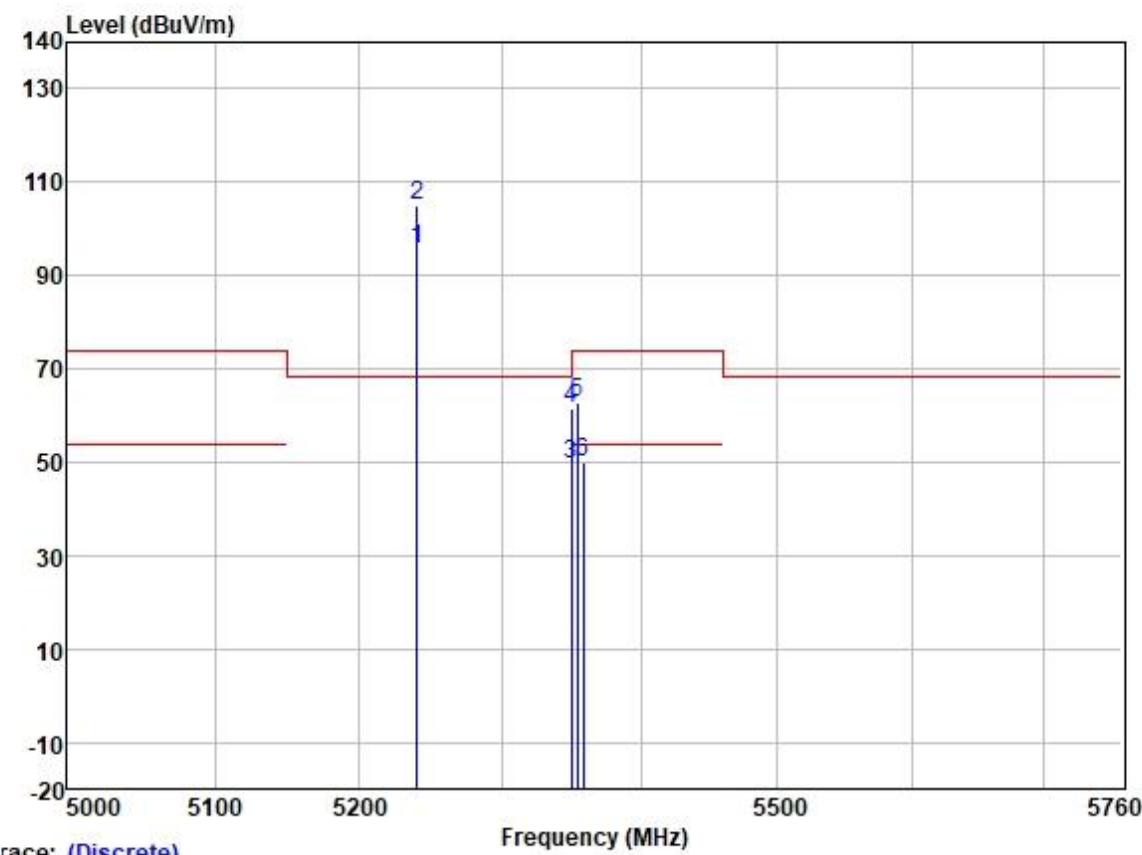
Index	Frequency (MHz)	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m			
1	5240.000	96.36	31.75	5.74	36.87	96.98	-----	-----	HORIZONTAL	Average
2 *	5240.000	105.90	31.75	5.74	36.87	106.52	68.20	38.32	HORIZONTAL	Peak
3	5350.020	48.84	31.77	6.05	36.88	49.78	54.00	-4.22	HORIZONTAL	Average
4	5350.020	60.66	31.77	6.05	36.88	61.60	74.00	-12.40	HORIZONTAL	Peak
5	5352.345	61.57	31.77	6.05	36.88	62.51	74.00	-11.49	HORIZONTAL	Peak
6	5355.462	48.93	31.78	6.03	36.88	49.86	54.00	-4.14	HORIZONTAL	Average

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Rate: (Discrete)

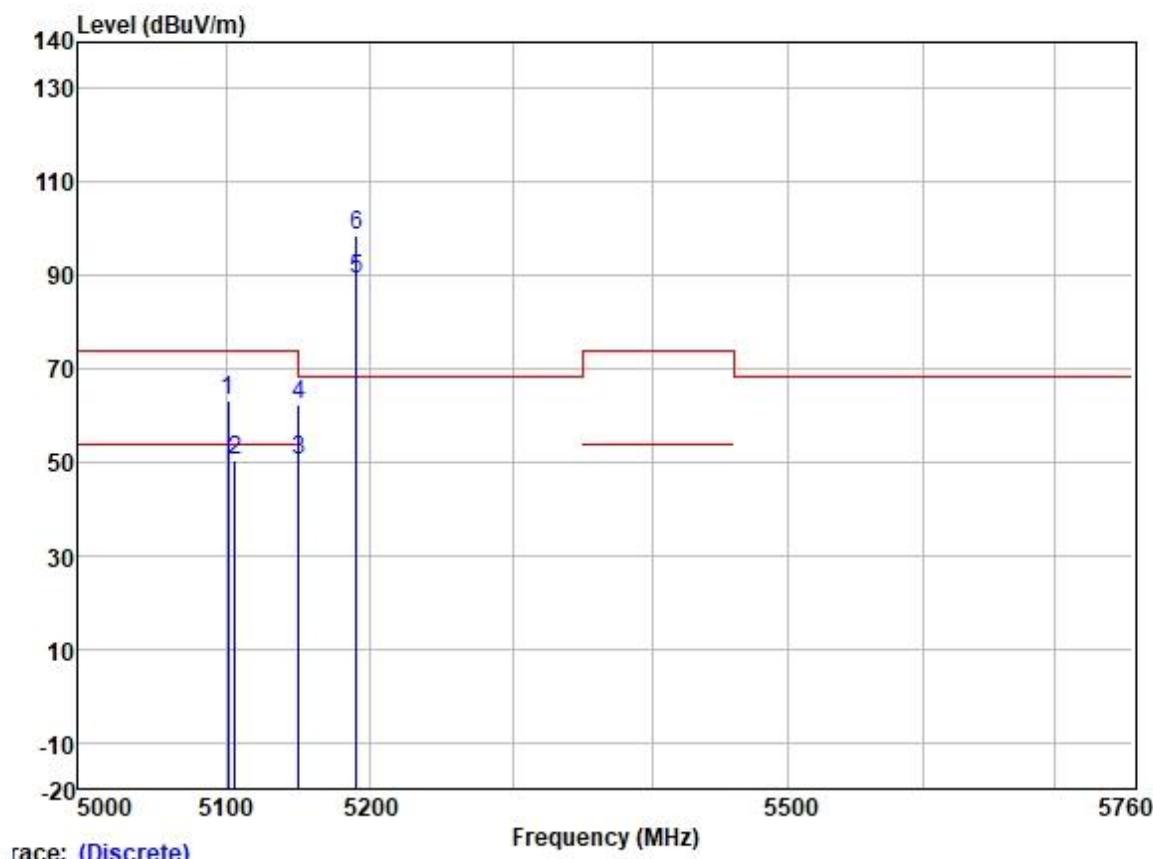
	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		MHz	dBuV	Level	Factor					
1	5240.000	95.14	31.75	5.74	36.87	95.76	-----	-----	VERTICAL	Average
2 *	5240.000	104.47	31.75	5.74	36.87	105.09	68.20	36.89	VERTICAL	Peak
3	5350.020	48.73	31.77	6.05	36.88	49.67	54.00	-4.33	VERTICAL	Average
4	5350.020	60.60	31.77	6.05	36.88	61.54	74.00	-12.46	VERTICAL	Peak
5	5353.762	62.01	31.77	6.05	36.88	62.95	74.00	-11.05	VERTICAL	Peak
6	5358.156	48.93	31.78	6.03	36.88	49.86	54.00	-4.14	VERTICAL	Average

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor						
1	5101.305	62.48	31.72	5.65	36.86	62.99	74.00	-11.01	HORIZONTAL	Peak
2	5106.409	50.02	31.72	5.65	36.86	50.53	54.00	-3.47	HORIZONTAL	Average
3	5149.980	49.99	31.72	5.62	36.86	50.47	54.00	-3.53	HORIZONTAL	Average
4	5149.980	62.01	31.72	5.62	36.86	62.49	74.00	-11.51	HORIZONTAL	Peak
5	5190.000	88.67	31.73	5.60	36.87	89.13	-----	-----	HORIZONTAL	Average
6 *	5190.000	98.21	31.73	5.60	36.87	98.67	68.20	30.47	HORIZONTAL	Peak

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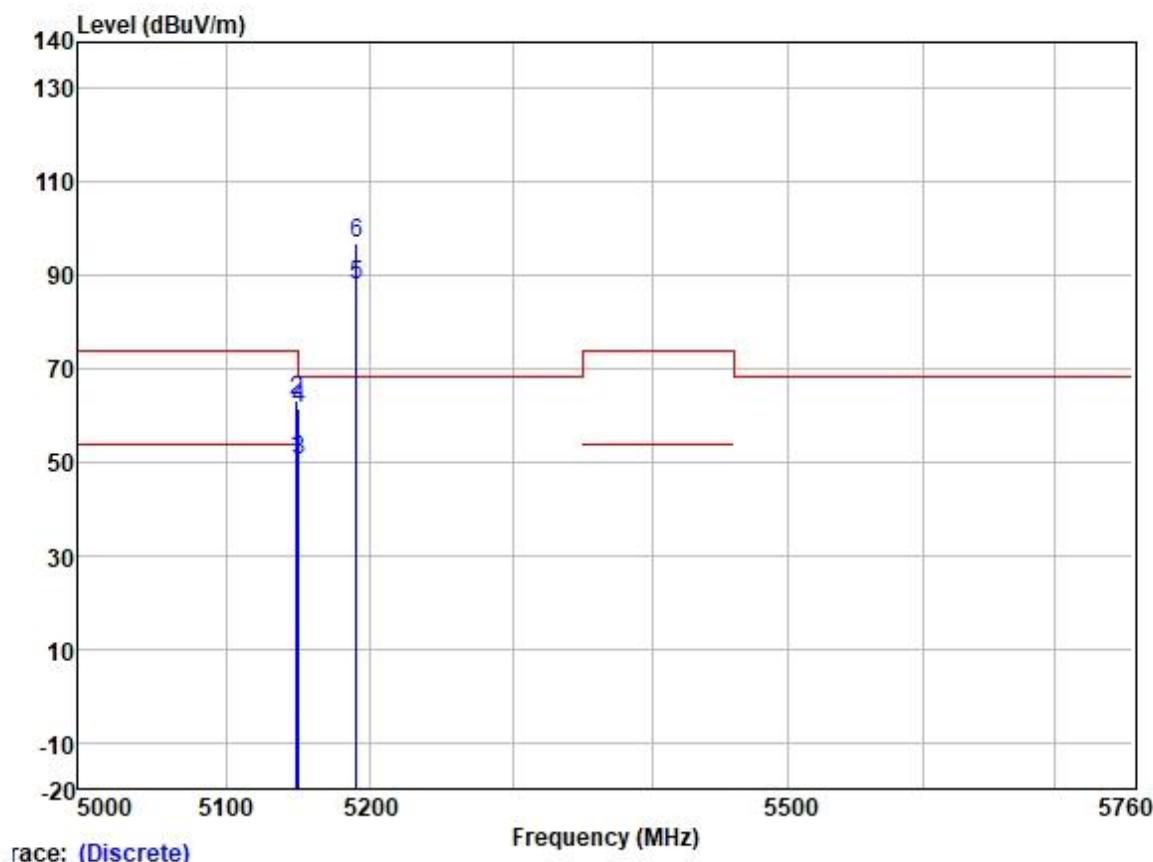
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Race: (Discrete)

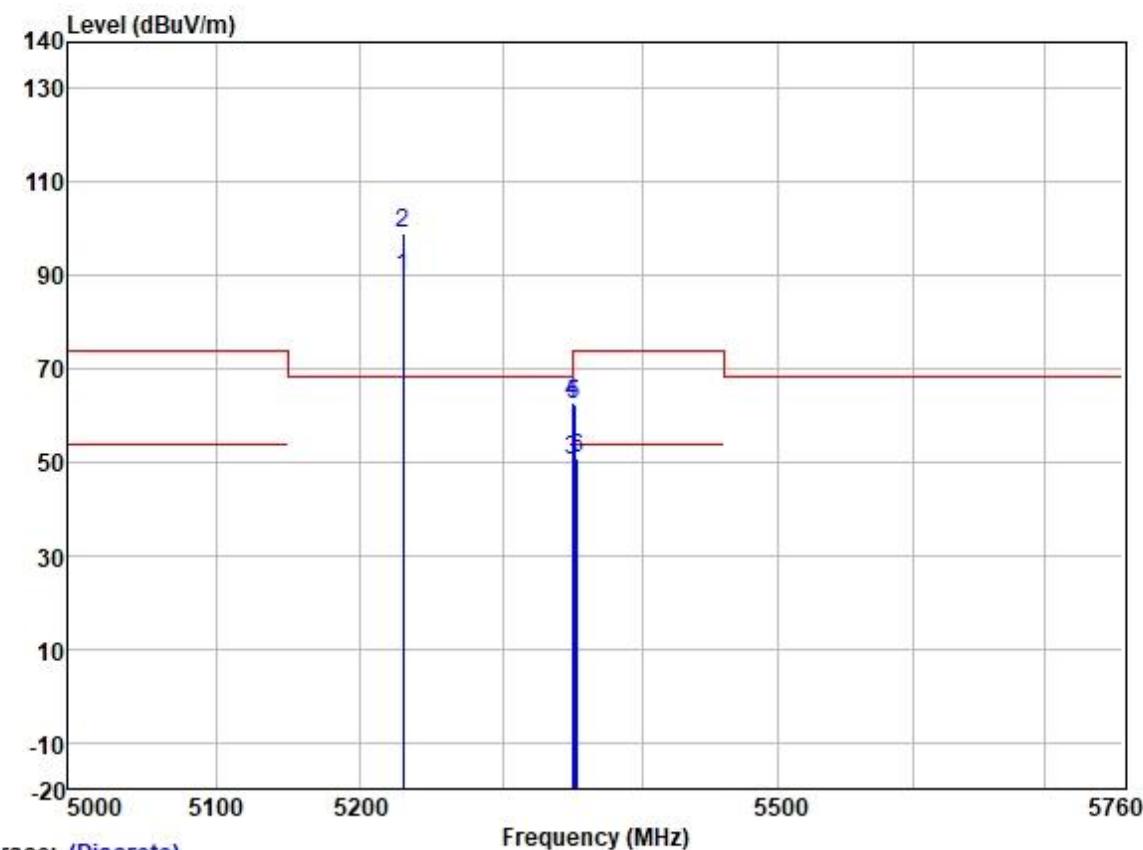
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor						
1	5148.503	50.18	31.72	5.62	36.86	50.66	54.00	-3.34	VERTICAL	Average
2	5148.503	62.51	31.72	5.62	36.86	62.99	74.00	-11.01	VERTICAL	Peak
3	5149.980	49.81	31.72	5.62	36.86	50.29	54.00	-3.71	VERTICAL	Average
4	5149.980	60.96	31.72	5.62	36.86	61.44	74.00	-12.56	VERTICAL	Peak
5	5190.000	87.47	31.73	5.60	36.87	87.93	-----	-----	VERTICAL	Average
6 *	5190.000	96.42	31.73	5.60	36.87	96.88	68.20	28.68	VERTICAL	Peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Race: (Discrete)

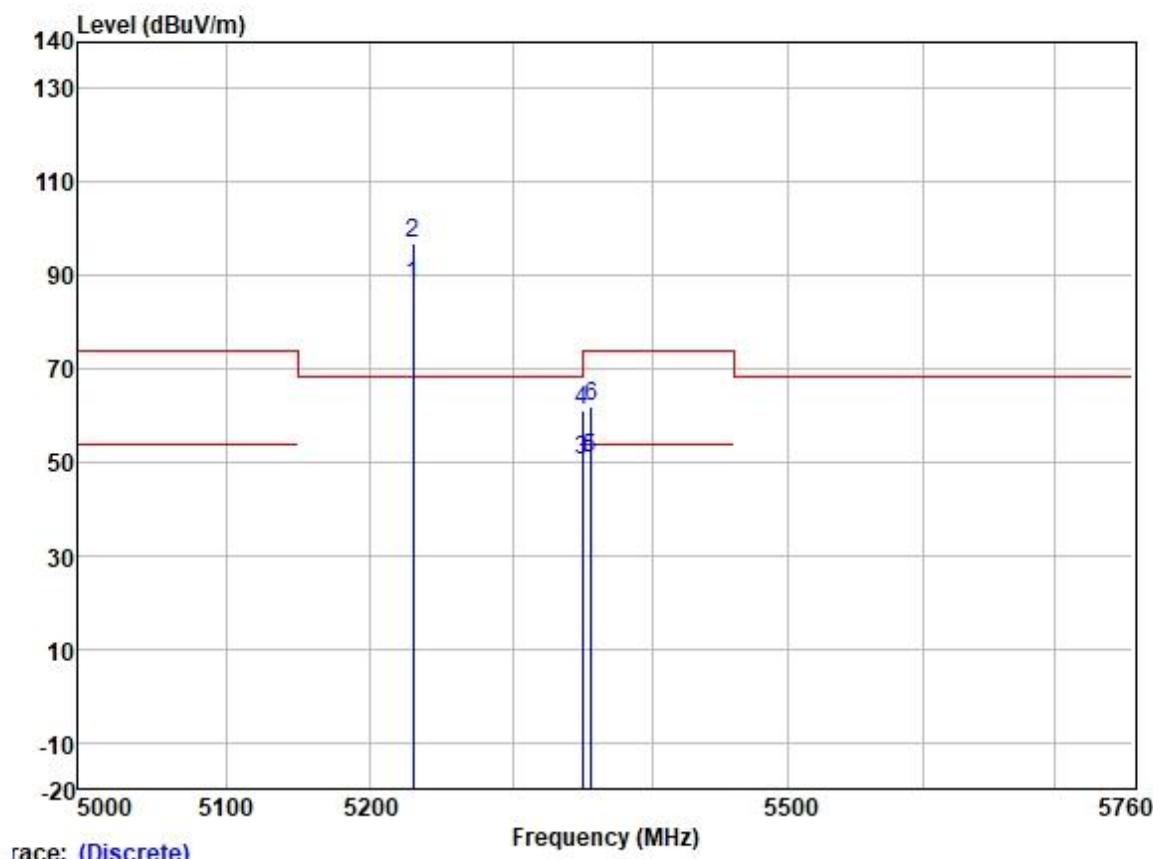
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss						
1	5230.000	89.25	31.74	5.70	36.87	89.82	-----	-----	HORIZONTAL	Average
2 *	5230.000	98.41	31.74	5.70	36.87	98.98	68.20	30.78	HORIZONTAL	Peak
3	5350.020	49.32	31.77	6.05	36.88	50.26	54.00	-3.74	HORIZONTAL	Average
4	5350.020	61.80	31.77	6.05	36.88	62.74	74.00	-11.26	HORIZONTAL	Peak
5	5351.073	61.34	31.77	6.05	36.88	62.28	74.00	-11.72	HORIZONTAL	Peak
6	5353.020	49.76	31.77	6.05	36.88	50.70	54.00	-3.30	HORIZONTAL	Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Race: (Discrete)

Point	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss						
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB		
1	5230.000	87.53	31.74	5.70	36.87	88.10	-----	-----	-----	VERTICAL	Average
2	5230.000	96.13	31.74	5.70	36.87	96.70	68.20	28.50	VERTICAL	Peak	
3	5350.020	49.43	31.77	6.05	36.88	50.37	54.00	-3.63	VERTICAL	Average	
4	5350.020	59.94	31.77	6.05	36.88	60.88	74.00	-13.12	VERTICAL	Peak	
5	5355.292	49.74	31.78	6.03	36.88	50.67	54.00	-3.33	VERTICAL	Average	
6	5356.103	61.08	31.78	6.03	36.88	62.01	74.00	-11.99	VERTICAL	Peak	

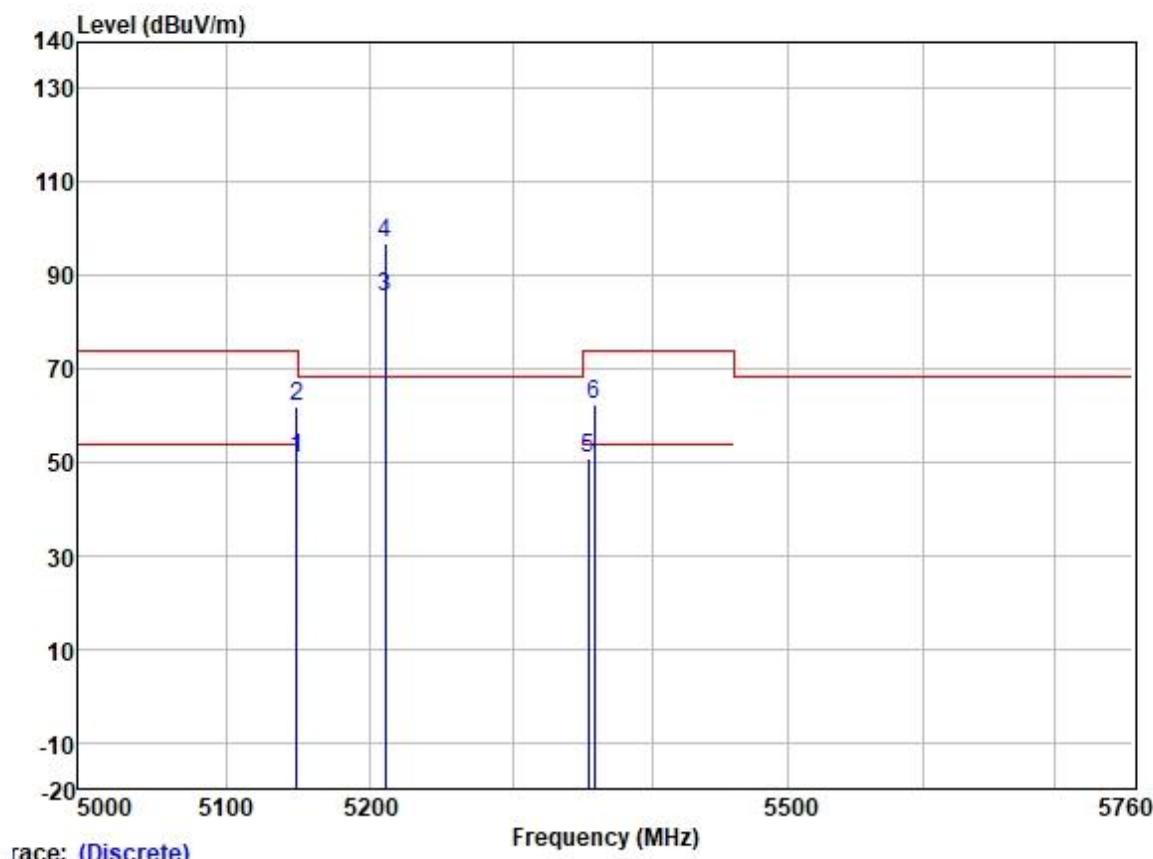
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Trace: (Discrete)

ReadAntenna	Cable	Preamp	Limit		Over	Pol/Phase	Remark	
			Freq	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5148.667	50.49	31.72	5.62	36.86	50.97	54.00	-3.03 HORIZONTAL Average
2	5148.667	61.63	31.72	5.62	36.86	62.11	74.00	-11.89 HORIZONTAL Peak
3	5210.000	84.94	31.74	5.65	36.87	85.46	-----	----- HORIZONTAL Average
4 *	5210.000	96.30	31.74	5.65	36.87	96.82	68.20	28.62 HORIZONTAL Peak
5	5353.874	49.76	31.77	6.05	36.88	50.70	54.00	-3.30 HORIZONTAL Average
6	5358.667	61.40	31.78	6.03	36.88	62.33	74.00	-11.67 HORIZONTAL Peak

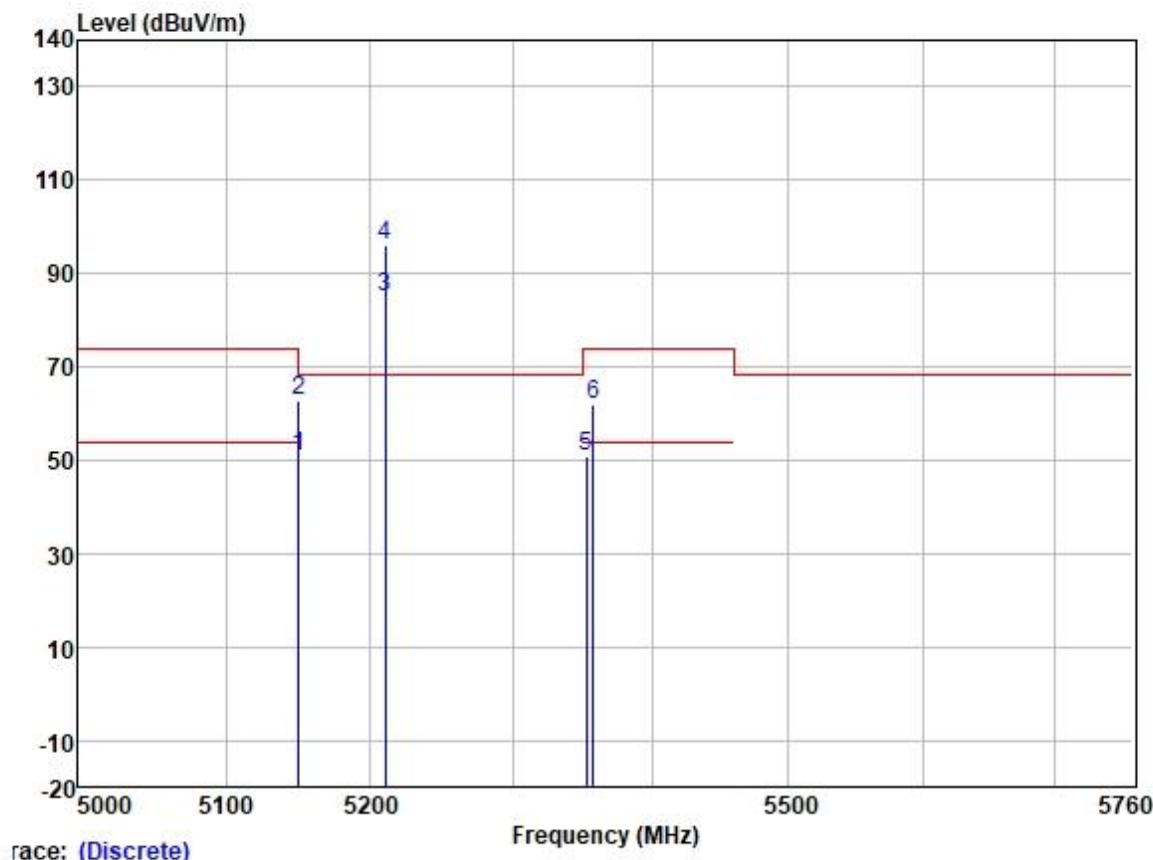
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Trace: (Discrete)

	Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
		MHz	dBuV	Level Factor	Loss						
1	5149.690	50.26	31.72	5.62	36.86	50.74	54.00	-3.26	VERTICAL	Average	
2	5149.690	62.43	31.72	5.62	36.86	62.91	74.00	-11.09	VERTICAL	Peak	
3	5210.000	84.26	31.74	5.65	36.87	84.78	-----	-----	VERTICAL	Average	
4 *	5210.000	95.33	31.74	5.65	36.87	95.85	68.20	27.65	VERTICAL	Peak	
5	5352.809	49.77	31.77	6.05	36.88	50.71	54.00	-3.29	VERTICAL	Average	
6	5357.868	61.16	31.78	6.03	36.88	62.09	74.00	-11.91	VERTICAL	Peak	

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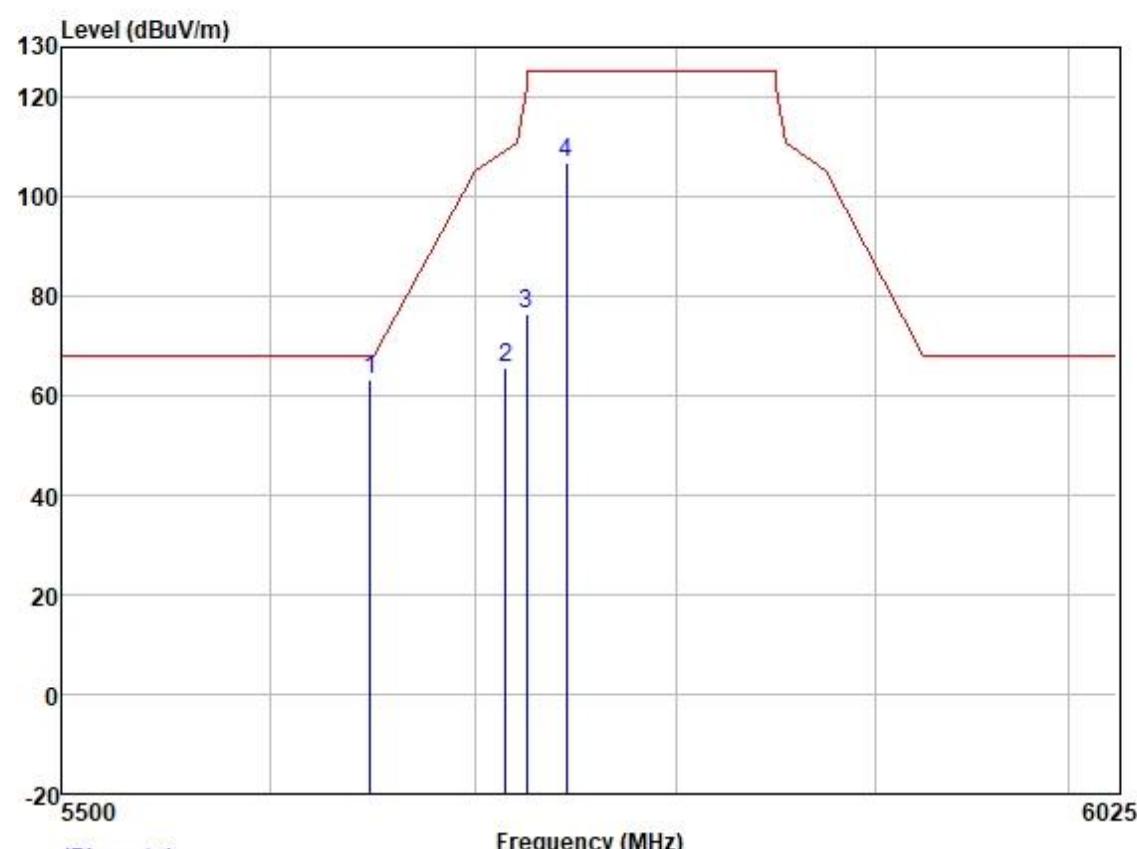


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss					
					dBuV/m	dBuV/m	dB		
1	5648.442	61.64	31.95	6.35	36.89	63.05	68.20	-5.15	HORIZONTAL Peak
2	5715.000	64.30	32.04	6.33	36.89	65.78	109.40	-43.62	HORIZONTAL Peak
3	5725.000	75.07	32.07	6.25	36.89	76.50	122.20	-45.70	HORIZONTAL Peak
4	5745.000	105.33	32.10	6.20	36.89	106.74	125.20	-18.46	HORIZONTAL Peak

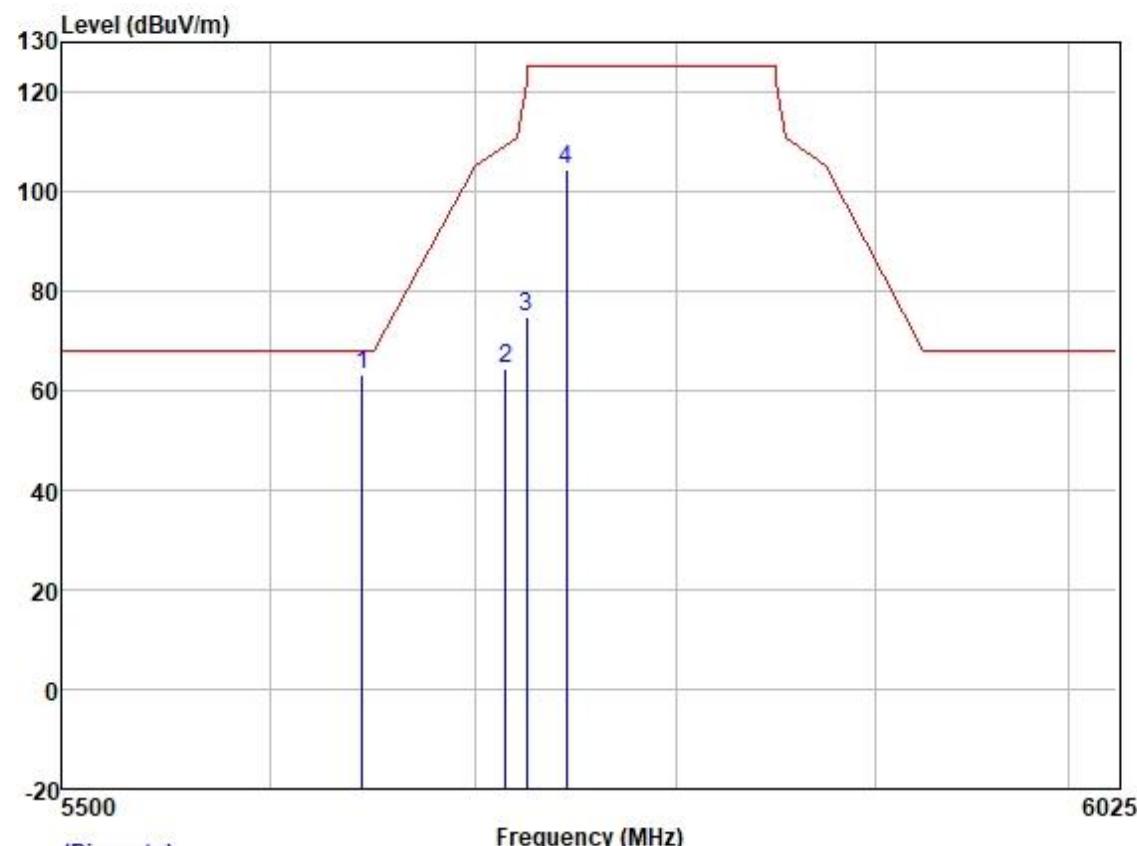
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss	Factor					
1	5644.565	61.92	31.95	6.35	36.89	63.33	68.20	-4.87	VERTICAL	Peak
2	5715.000	62.81	32.04	6.33	36.89	64.29	109.40	-45.11	VERTICAL	Peak
3	5725.000	73.32	32.07	6.25	36.89	74.75	122.20	-47.45	VERTICAL	Peak
4	5745.000	102.87	32.10	6.20	36.89	104.28	125.20	-20.92	VERTICAL	Peak

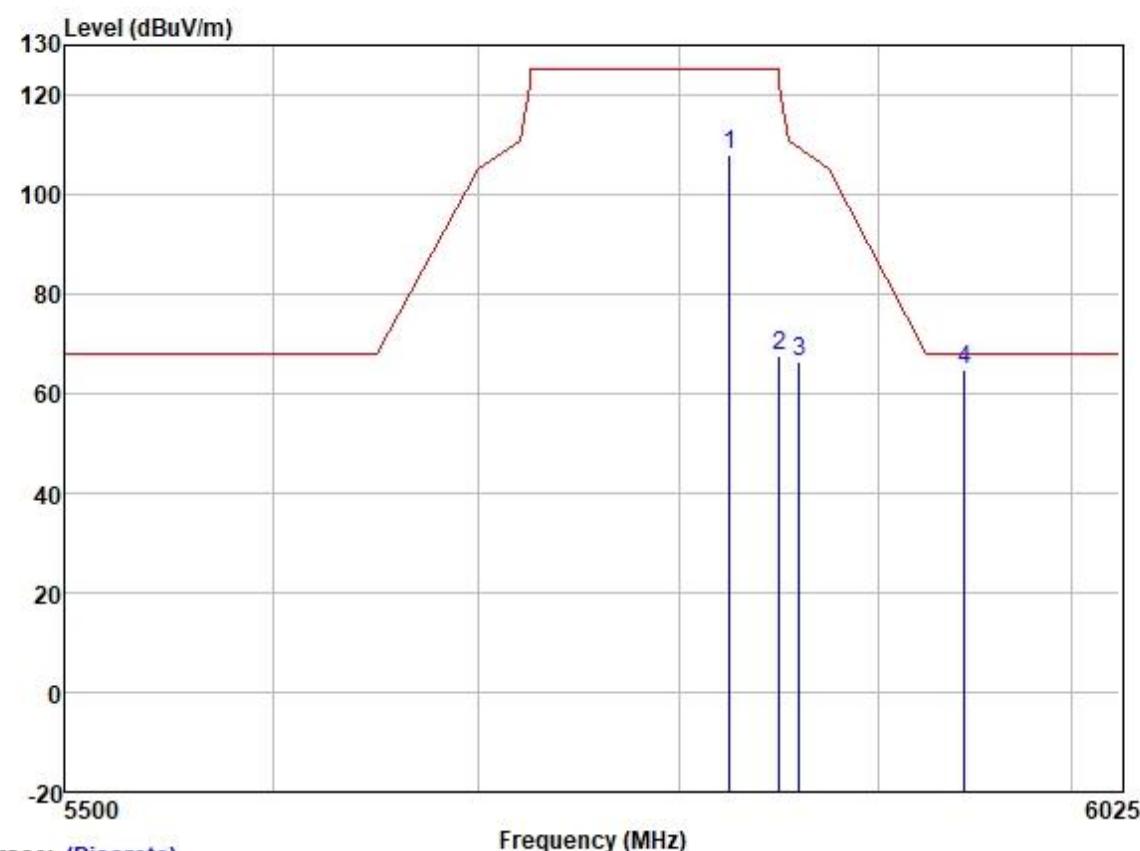
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Rate: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5825.000	106.75	32.23	6.04	36.90	108.12	125.20	-17.08	HORIZONTAL Peak
2	5850.000	66.25	32.25	6.00	36.90	67.60	122.20	-54.60	HORIZONTAL Peak
3	5860.000	65.03	32.27	5.96	36.90	66.36	109.40	-43.04	HORIZONTAL Peak
4	5944.215	63.15	32.36	6.05	36.90	64.66	68.20	-3.54	HORIZONTAL Peak

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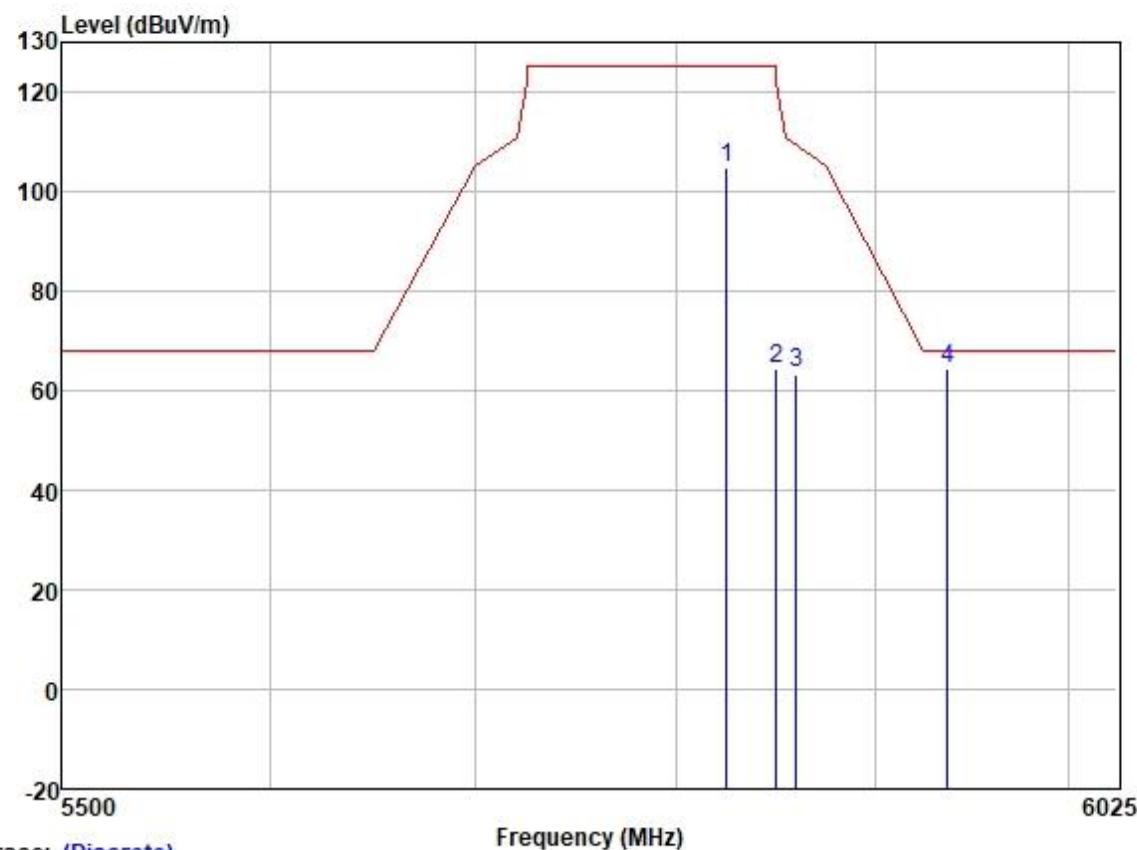


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Race: (Discrete)

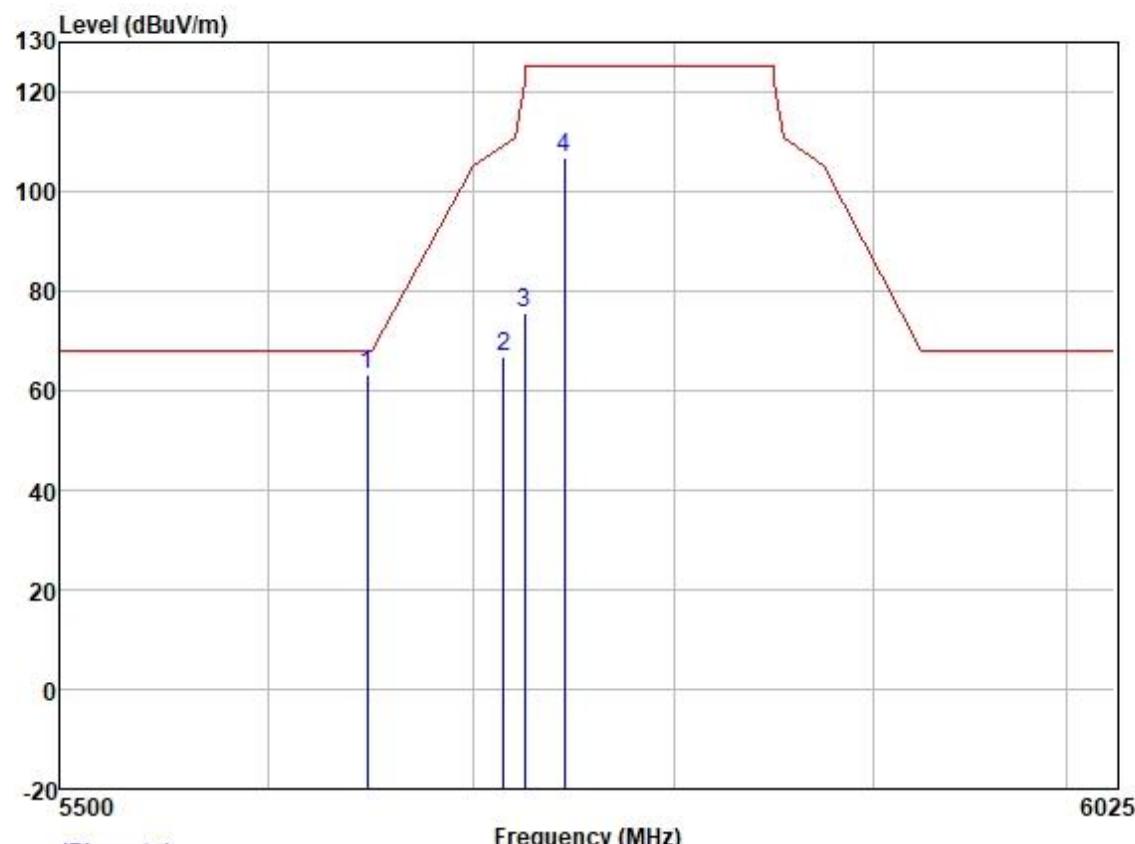
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5825.000	103.57	32.23	6.04	36.90	104.94	125.20	-20.26	VERTICAL Peak
2	5850.000	63.06	32.25	6.00	36.90	64.41	122.20	-57.79	VERTICAL Peak
3	5860.000	62.07	32.27	5.96	36.90	63.40	109.40	-46.00	VERTICAL Peak
4	5937.152	62.94	32.34	6.00	36.90	64.38	68.20	-3.82	VERTICAL Peak



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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5647.750	61.77	31.95	6.35	36.89	63.18	68.20	-5.02	HORIZONTAL Peak
2	5715.000	65.26	32.04	6.33	36.89	66.74	109.40	-42.66	HORIZONTAL Peak
3	5725.000	74.05	32.07	6.25	36.89	75.48	122.20	-46.72	HORIZONTAL Peak
4	5745.000	105.49	32.10	6.20	36.89	106.90	125.20	-18.30	HORIZONTAL Peak

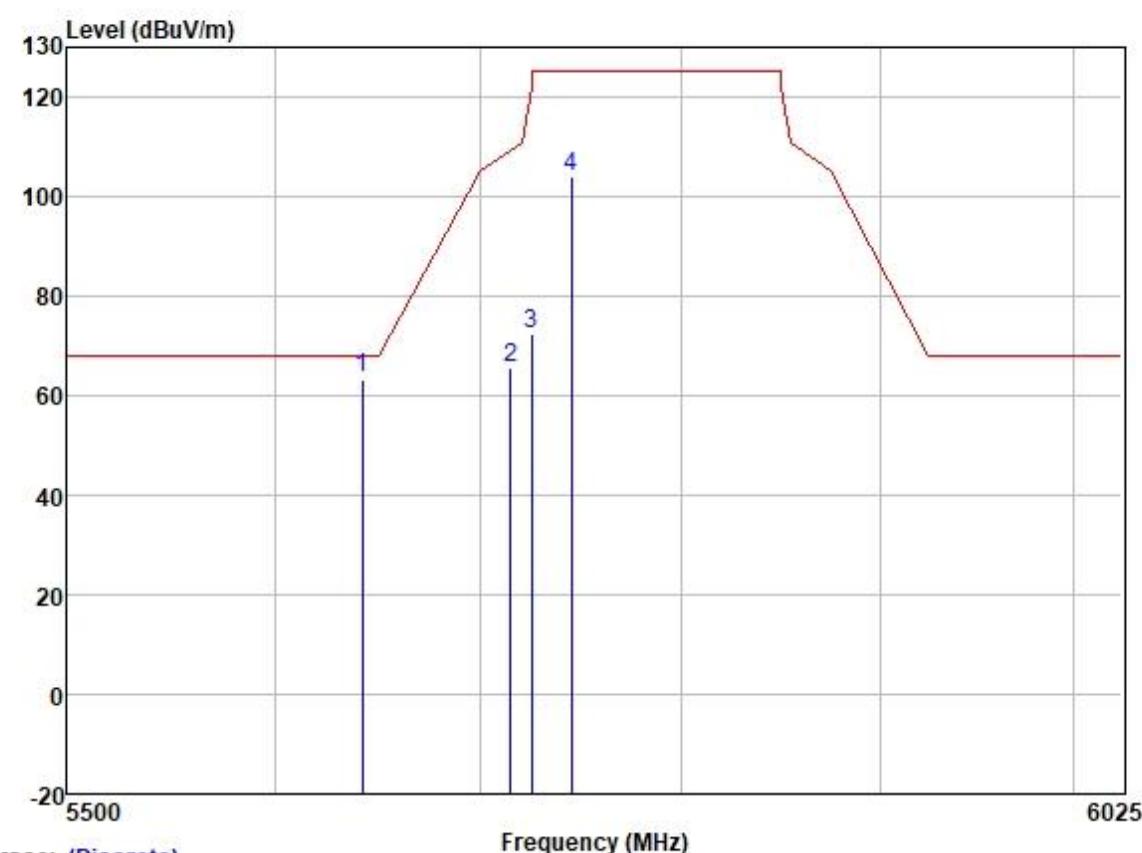
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB	
1	5642.213	61.99	31.95	6.35	36.89	63.40	68.20	-4.80	VERTICAL	Peak
2	5715.000	64.22	32.04	6.33	36.89	65.70	109.40	-43.70	VERTICAL	Peak
3	5725.000	71.11	32.07	6.25	36.89	72.54	122.20	-49.66	VERTICAL	Peak
4	5745.000	102.67	32.10	6.20	36.89	104.08	125.20	-21.12	VERTICAL	Peak

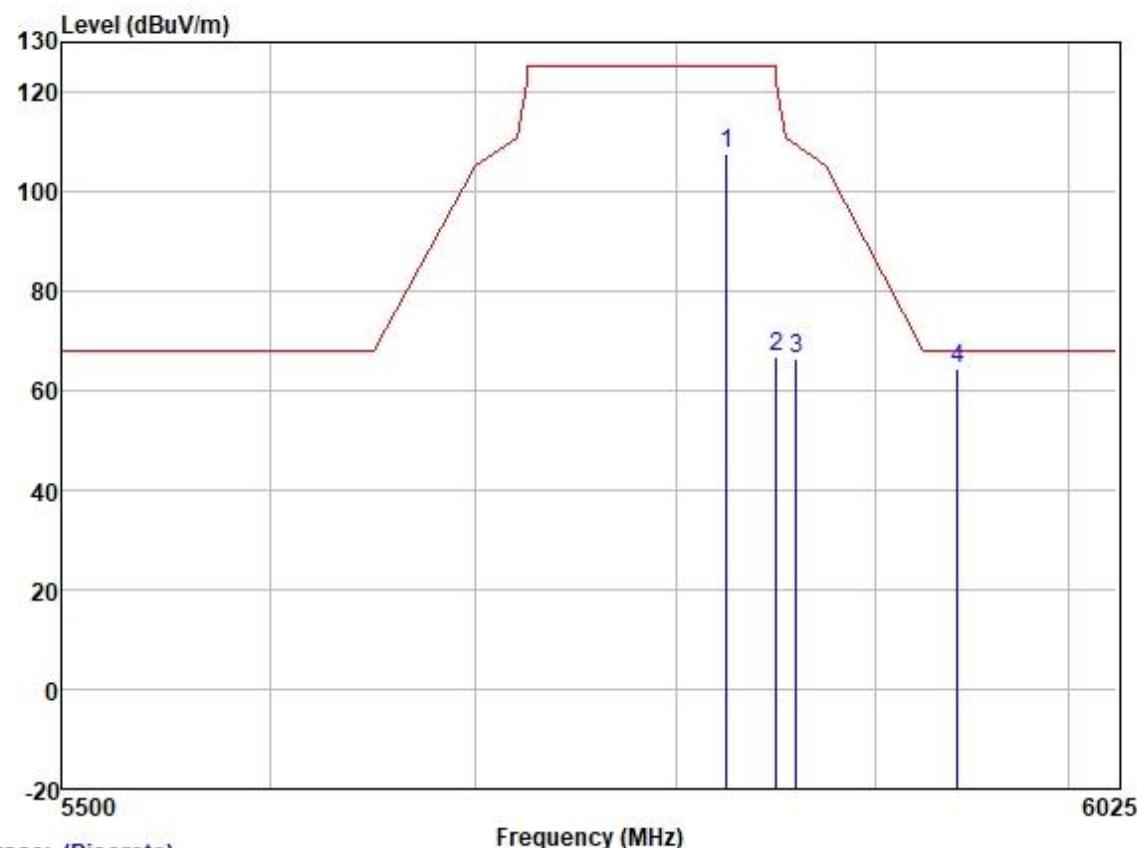
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Race: (Discrete)

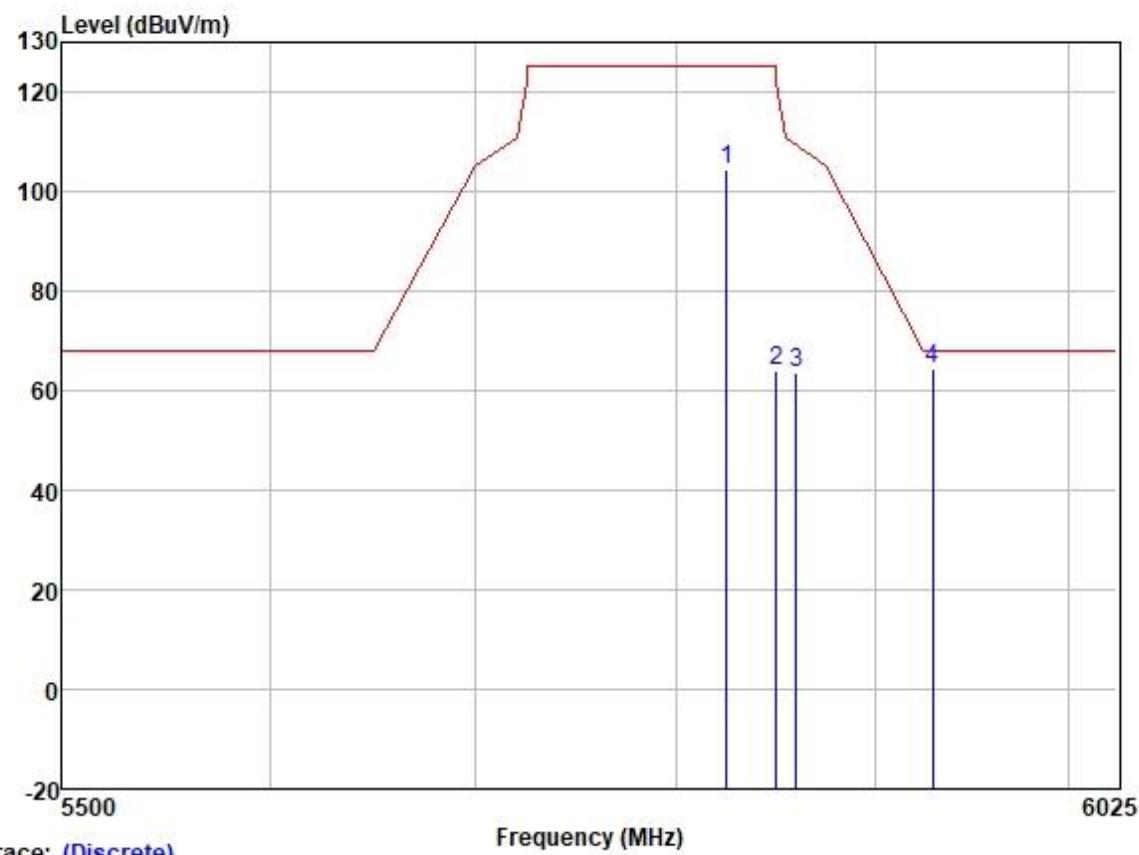
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5825.000	106.30	32.23	6.04	36.90	107.67	125.20	-17.53	HORIZONTAL Peak
2	5850.000	65.33	32.25	6.00	36.90	66.68	122.20	-55.52	HORIZONTAL Peak
3	5860.000	65.09	32.27	5.96	36.90	66.42	109.40	-42.98	HORIZONTAL Peak
4	5942.174	62.87	32.36	6.05	36.90	64.38	68.20	-3.82	HORIZONTAL Peak



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Race: (Discrete)

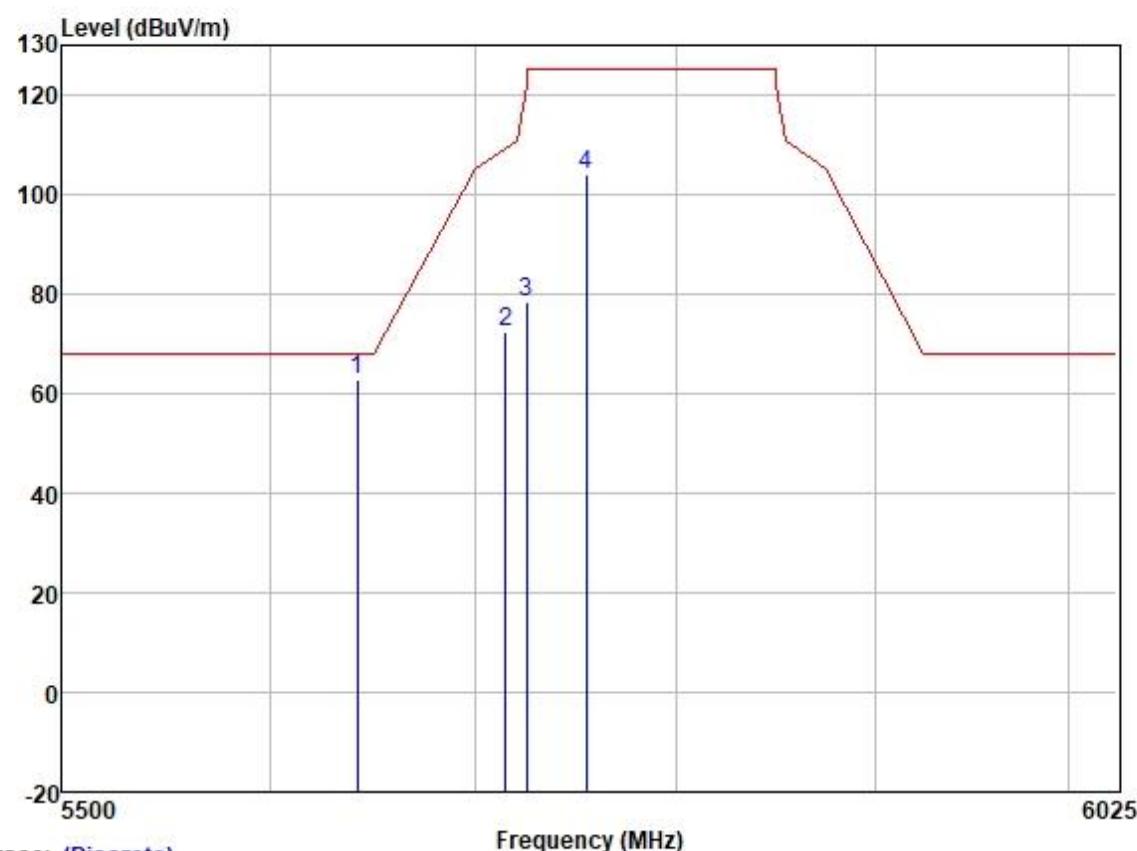
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5825.000	102.94	32.23	6.04	36.90	104.31	125.20	-20.89	VERTICAL Peak
2	5850.000	62.53	32.25	6.00	36.90	63.88	122.20	-58.32	VERTICAL Peak
3	5860.000	62.41	32.27	5.96	36.90	63.74	109.40	-45.66	VERTICAL Peak
4	5929.628	62.87	32.34	6.00	36.90	64.31	68.20	-3.89	VERTICAL Peak



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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss					
					dBuV/m	dBuV/m	dB		
1	5641.988	61.47	31.95	6.35	36.89	62.88	68.20	-5.32	HORIZONTAL Peak
2	5715.000	70.91	32.04	6.33	36.89	72.39	109.40	-37.01	HORIZONTAL Peak
3	5725.000	76.78	32.07	6.25	36.89	78.21	122.20	-43.99	HORIZONTAL Peak
4	5755.000	102.50	32.10	6.20	36.89	103.91	125.20	-21.29	HORIZONTAL Peak

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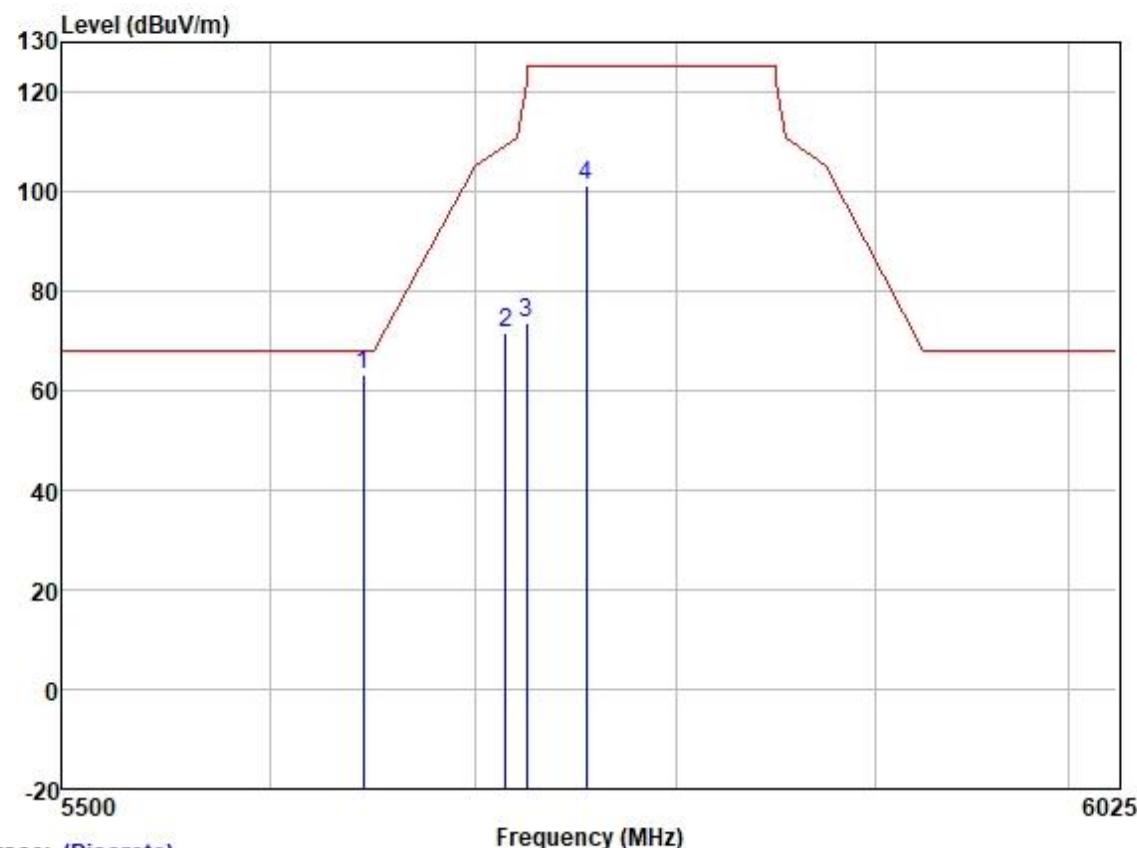


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Rate: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss					
1	5644.895	61.64	31.95	6.35	36.89	63.05	68.20	-5.15	VERTICAL Peak
2	5715.000	70.01	32.04	6.33	36.89	71.49	109.40	-37.91	VERTICAL Peak
3	5725.000	72.28	32.07	6.25	36.89	73.71	122.20	-48.49	VERTICAL Peak
4	5755.000	99.79	32.10	6.20	36.89	101.20	125.20	-24.00	VERTICAL Peak

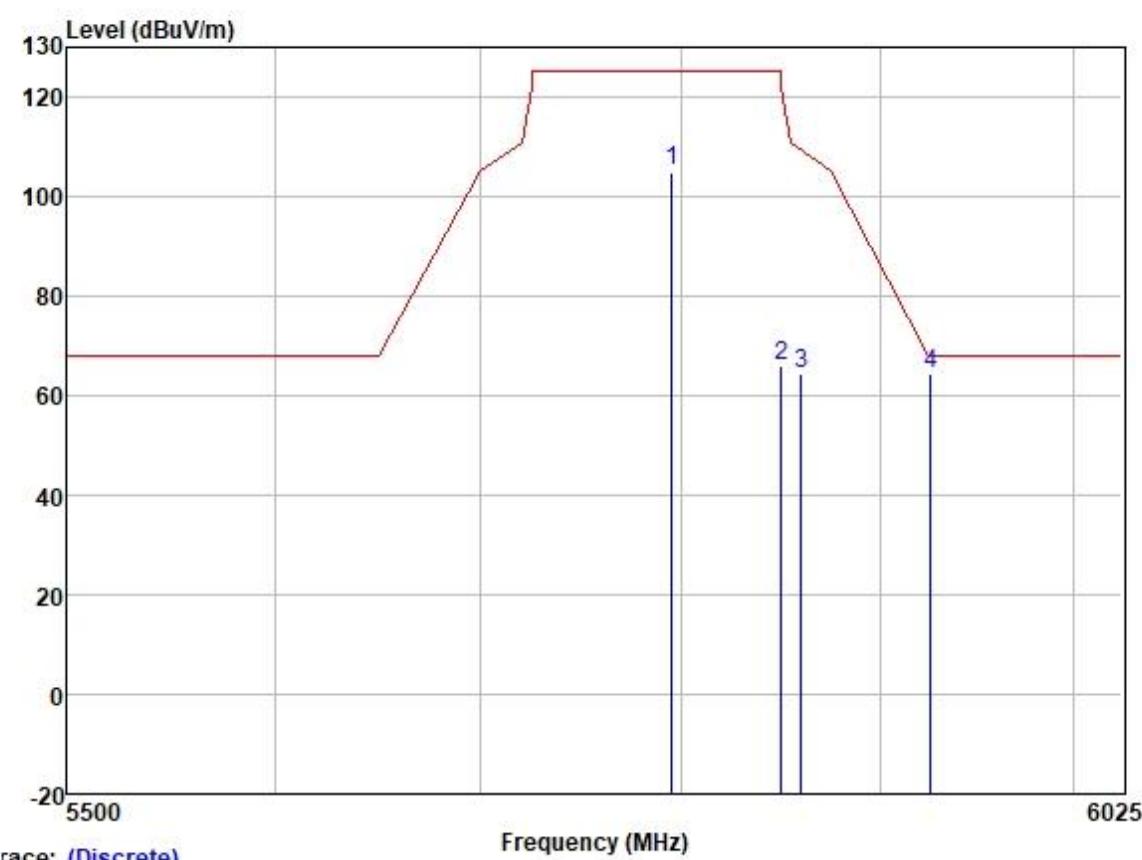
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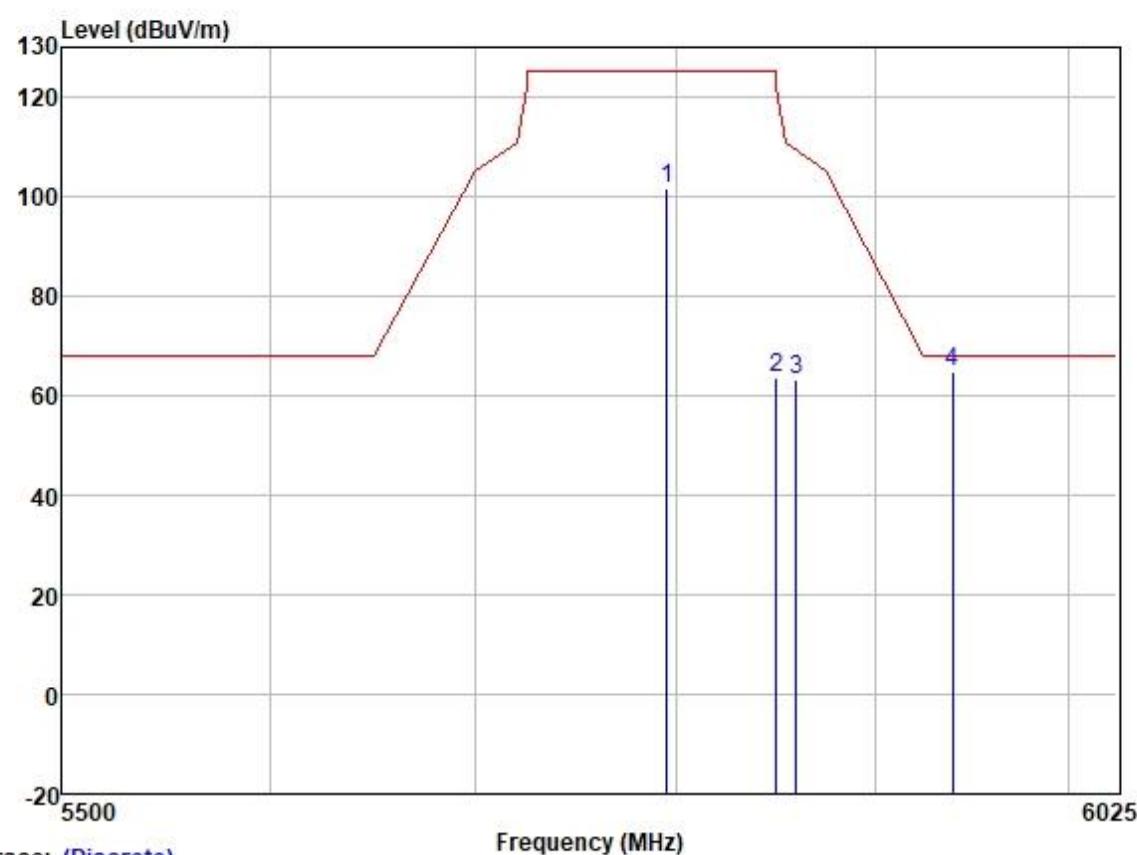
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5795.000	100.39	32.19	6.10	36.89	101.79	125.20	-23.41	VERTICAL Peak
2	5850.000	62.30	32.25	6.00	36.90	63.65	122.20	-58.55	VERTICAL Peak
3	5860.000	61.92	32.27	5.96	36.90	63.25	109.40	-46.15	VERTICAL Peak
4	5939.916	63.29	32.34	6.00	36.90	64.73	68.20	-3.47	VERTICAL Peak

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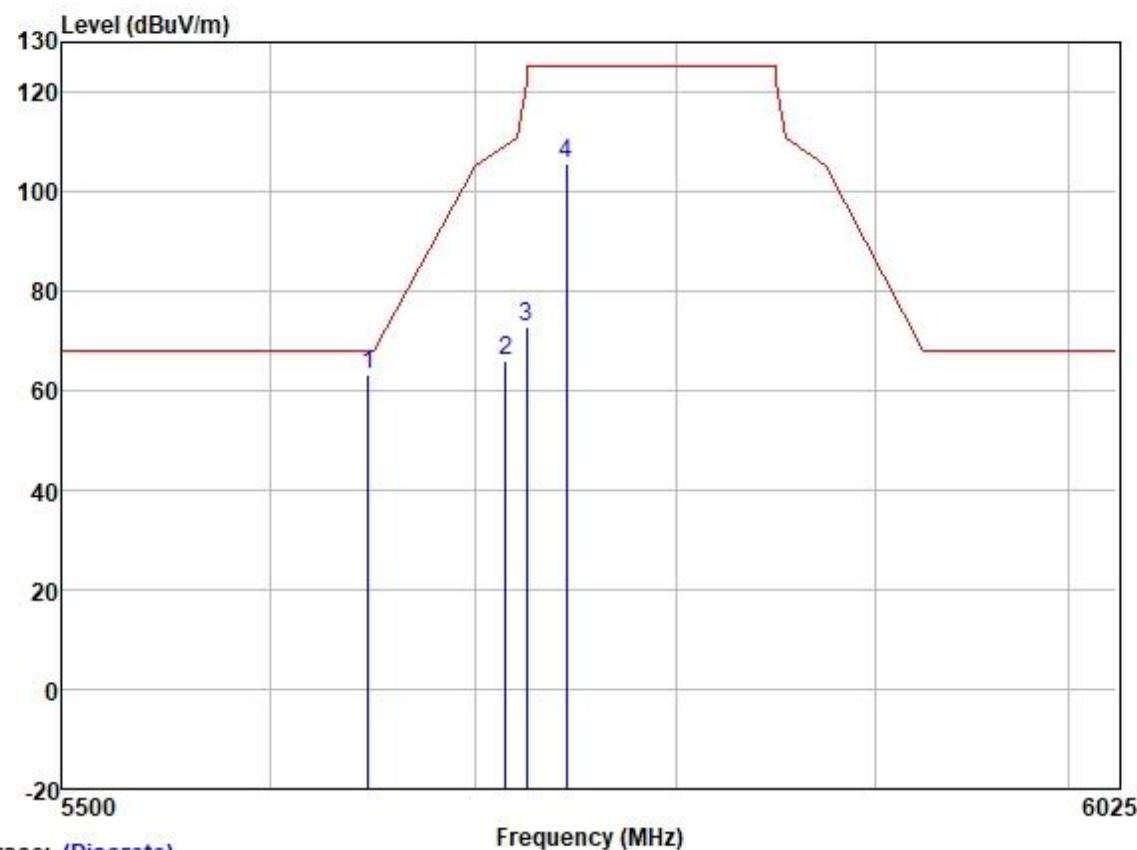


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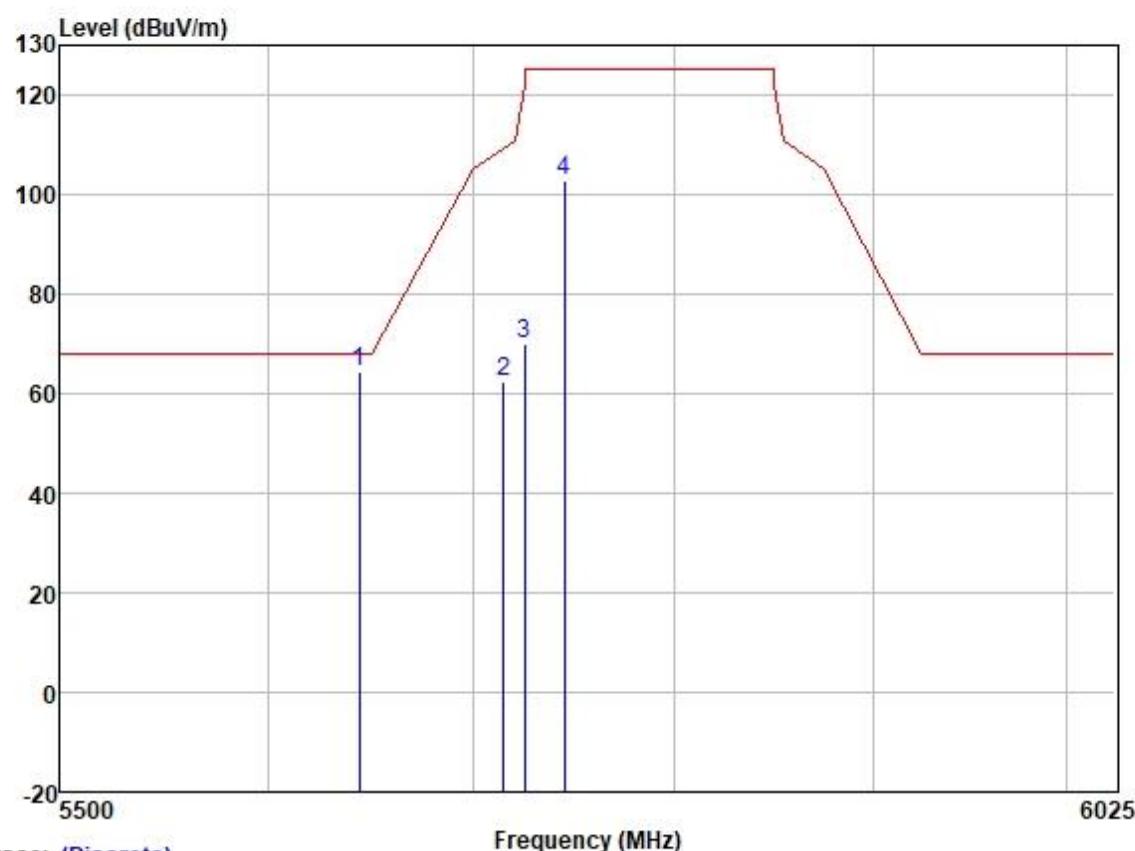
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss					
1	5643.874	63.09	31.95	6.35	36.89	64.50	68.20	-3.70	VERTICAL Peak
2	5715.000	60.98	32.04	6.33	36.89	62.46	109.40	-46.94	VERTICAL Peak
3	5725.000	68.67	32.07	6.25	36.89	70.10	122.20	-52.10	VERTICAL Peak
4	5745.000	101.48	32.10	6.20	36.89	102.89	125.20	-22.31	VERTICAL Peak

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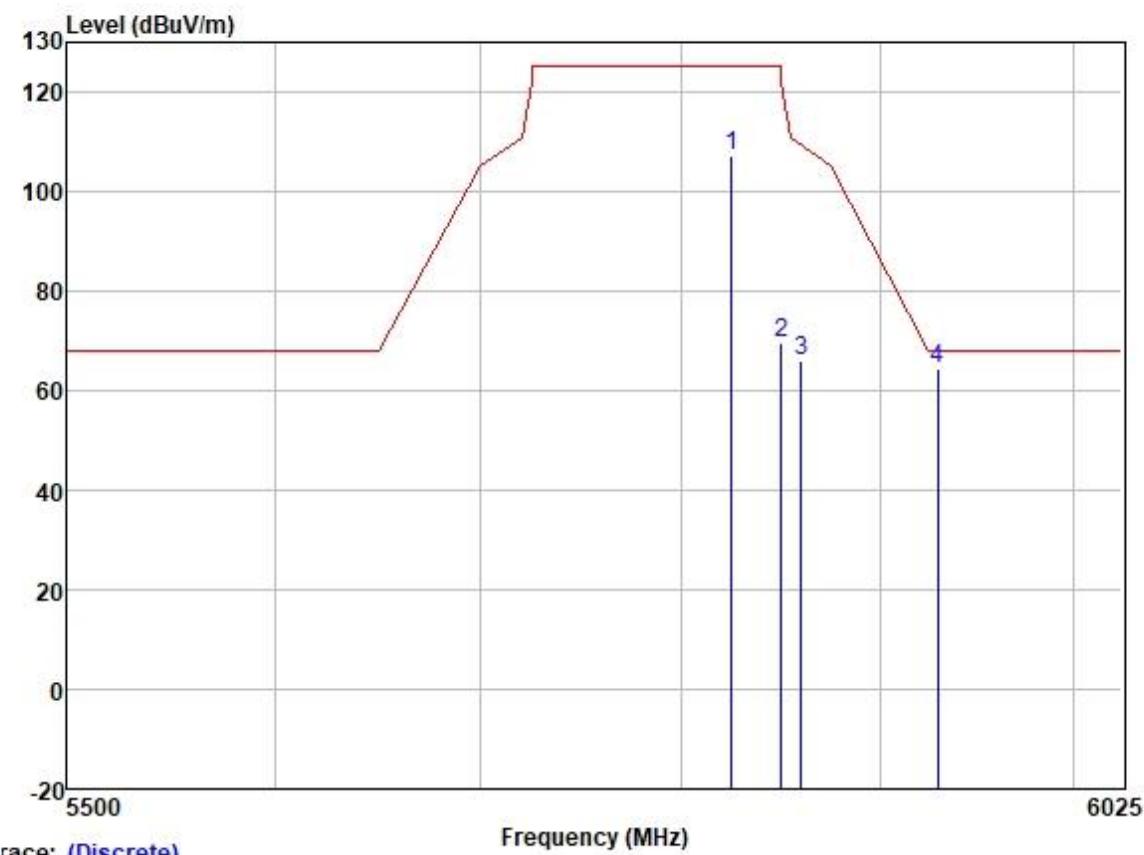
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Rate: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5825.000	105.80	32.23	6.04	36.90	107.17	125.20	-18.03	HORIZONTAL Peak
2	5850.000	68.27	32.25	6.00	36.90	69.62	122.20	-52.58	HORIZONTAL Peak
3	5860.000	64.54	32.27	5.96	36.90	65.87	109.40	-43.53	HORIZONTAL Peak
4	5929.785	62.99	32.34	6.00	36.90	64.43	68.20	-3.77	HORIZONTAL Peak

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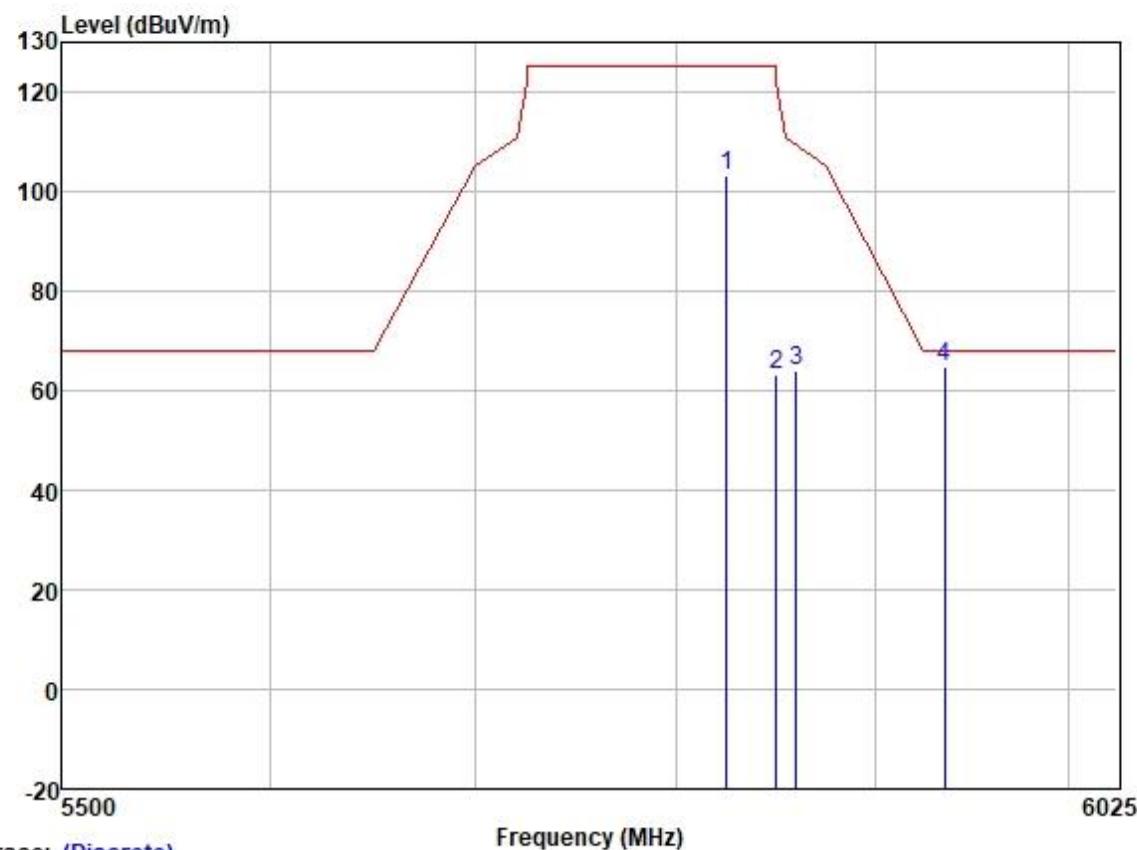


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Race: (Discrete)

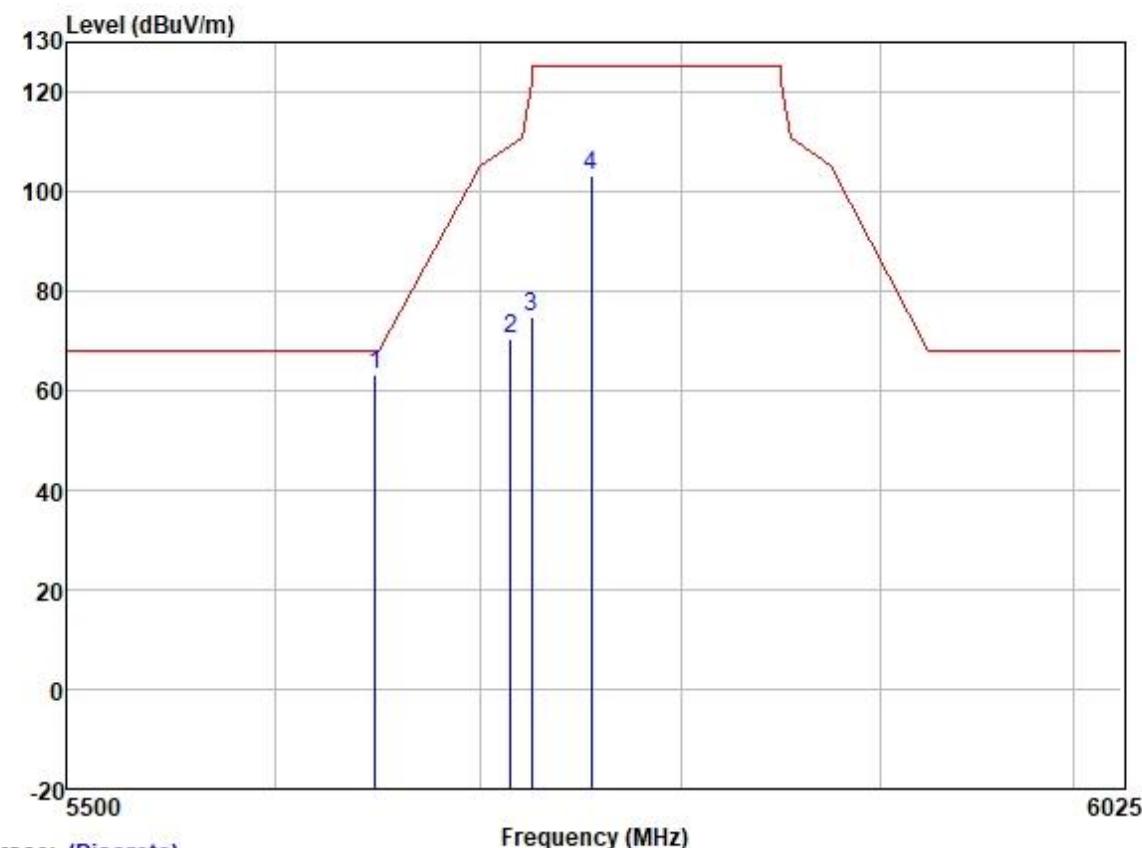
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5825.000	101.66	32.23	6.04	36.90	103.03	125.20	-22.17	VERTICAL Peak
2	5850.000	61.99	32.25	6.00	36.90	63.34	122.20	-58.86	VERTICAL Peak
3	5860.000	62.49	32.27	5.96	36.90	63.82	109.40	-45.58	VERTICAL Peak
4	5935.584	63.50	32.34	6.00	36.90	64.94	68.20	-3.26	VERTICAL Peak



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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Line	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB			
1	5648.416	61.96	31.95	6.35	36.89	63.37	68.20	-4.83	HORIZONTAL	Peak	
2	5715.000	68.99	32.04	6.33	36.89	70.47	109.40	-38.93	HORIZONTAL	Peak	
3	5725.000	73.46	32.07	6.25	36.89	74.89	122.20	-47.31	HORIZONTAL	Peak	
4	5755.000	101.63	32.10	6.20	36.89	103.04	125.20	-22.16	HORIZONTAL	Peak	

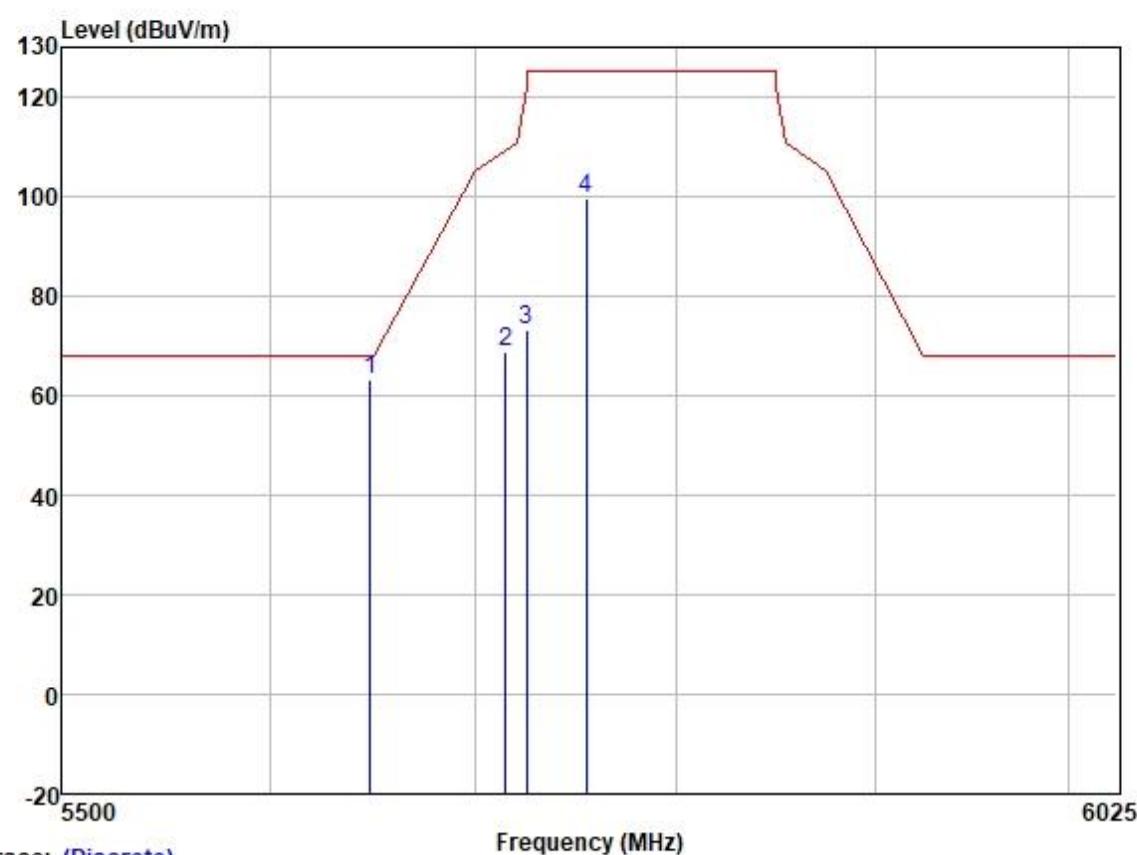
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss					
					dBuV/m	dBuV/m	dB		
1	5648.569	61.77	31.95	6.35	36.89	63.18	68.20	-5.02	VERTICAL Peak
2	5715.000	67.16	32.04	6.33	36.89	68.64	109.40	-40.76	VERTICAL Peak
3	5725.000	71.59	32.07	6.25	36.89	73.02	122.20	-49.18	VERTICAL Peak
4	5755.000	98.26	32.10	6.20	36.89	99.67	125.20	-25.53	VERTICAL Peak

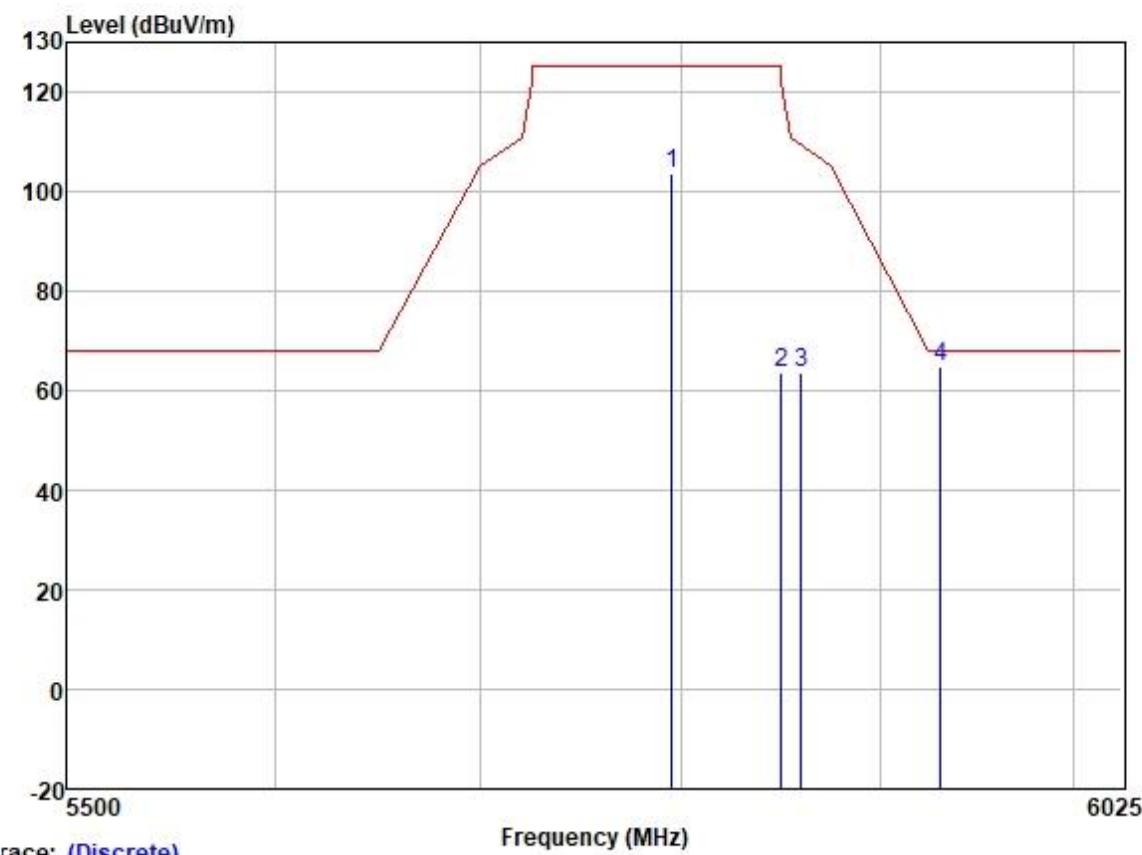
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5795.000	102.03	32.19	6.10	36.89	103.43	125.20	-21.77	HORIZONTAL Peak
2	5850.000	62.20	32.25	6.00	36.90	63.55	122.20	-58.65	HORIZONTAL Peak
3	5860.000	62.13	32.27	5.96	36.90	63.46	109.40	-45.94	HORIZONTAL Peak
4	5930.979	63.52	32.34	6.00	36.90	64.96	68.20	-3.24	HORIZONTAL Peak

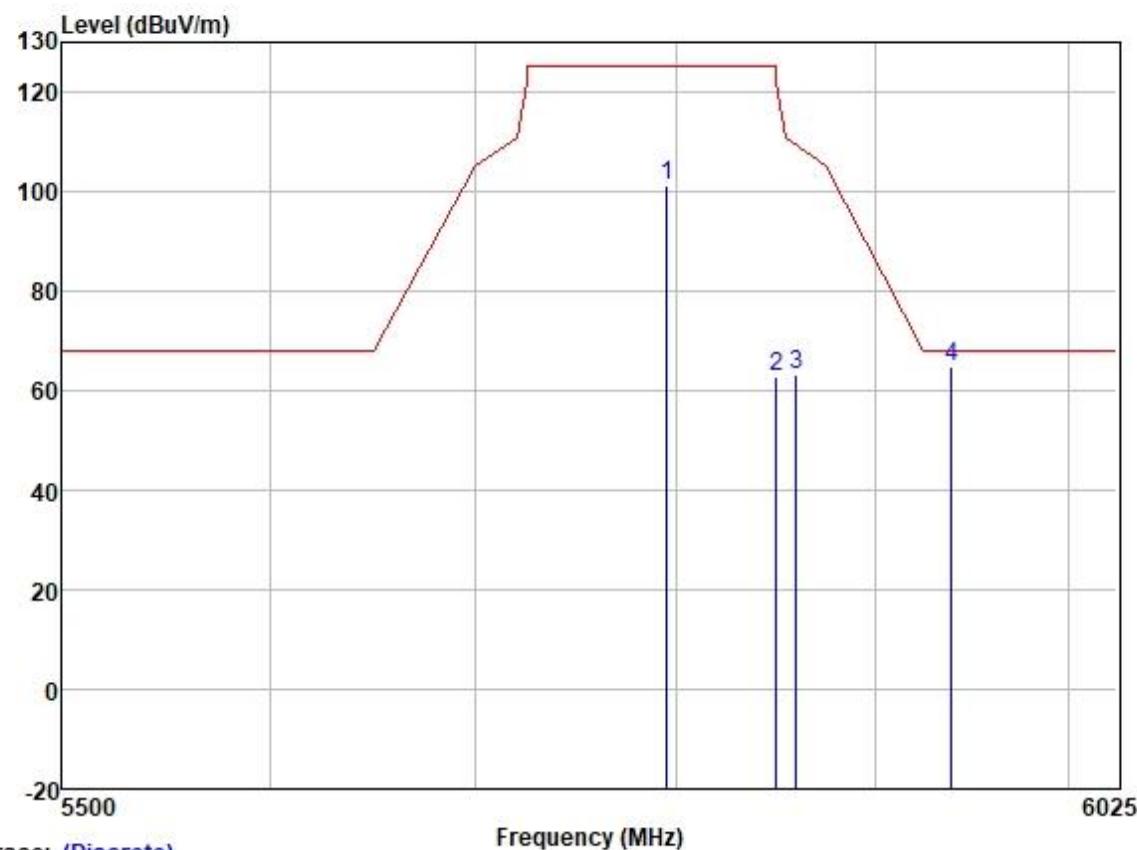
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	5795.000	99.69	32.19	6.10	36.89	101.09	125.20	-24.11	VERTICAL Peak
2	5850.000	61.60	32.25	6.00	36.90	62.95	122.20	-59.25	VERTICAL Peak
3	5860.000	61.68	32.27	5.96	36.90	63.01	109.40	-46.39	VERTICAL Peak
4	5939.306	63.53	32.34	6.00	36.90	64.97	68.20	-3.23	VERTICAL Peak

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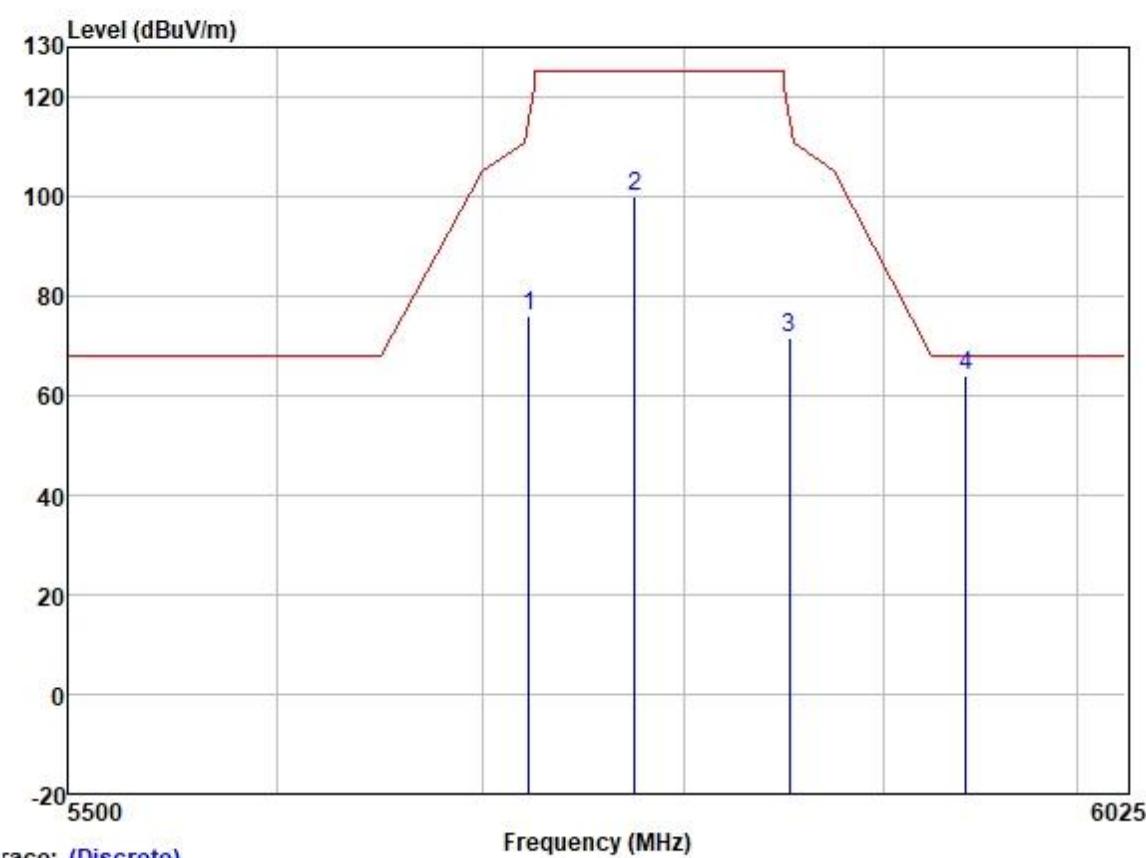


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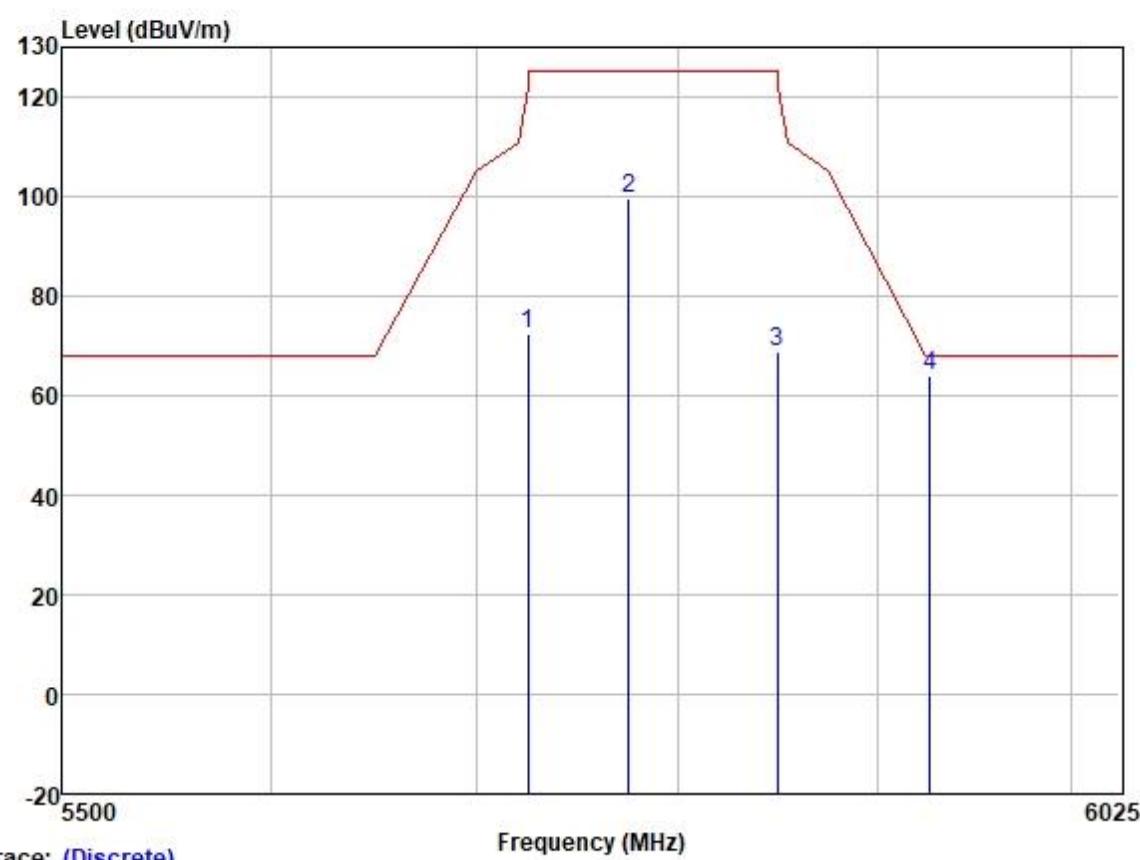
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	5724.993	70.85	32.07	6.25	36.89	72.28	122.18	-49.90	VERTICAL	Peak
2	5775.000	98.17	32.16	6.10	36.89	99.54	125.20	-25.66	VERTICAL	Peak
3	5849.650	67.63	32.25	6.00	36.90	68.98	125.20	-56.22	VERTICAL	Peak
4	5926.868	62.56	32.34	6.00	36.90	64.00	68.20	-4.20	VERTICAL	Peak

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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

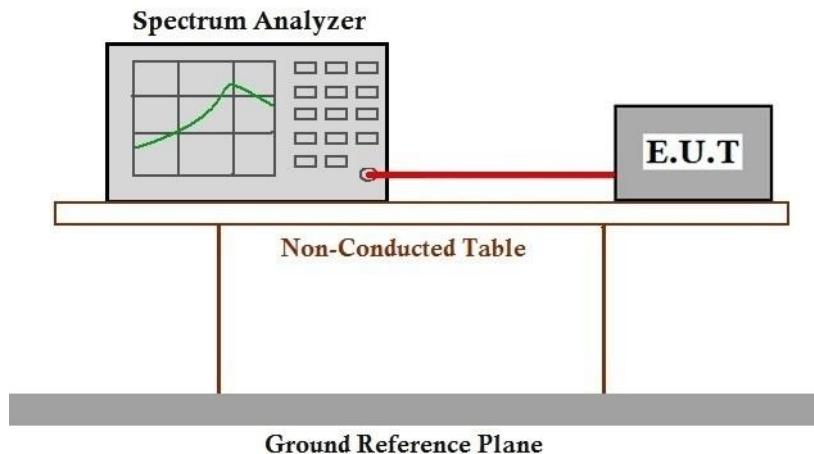
Temperature: 21.9 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 1003 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram

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7.11.4 Measurement Procedure and Data

Test data refer to the appendix

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.

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8 Test Setup Photo

Refer to Appendix – Setup photos for GZCR2203000250AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2203000250AT



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10 Appendix

1. Duty Cycle

1.1 Ant0

1.1.1 Test Result

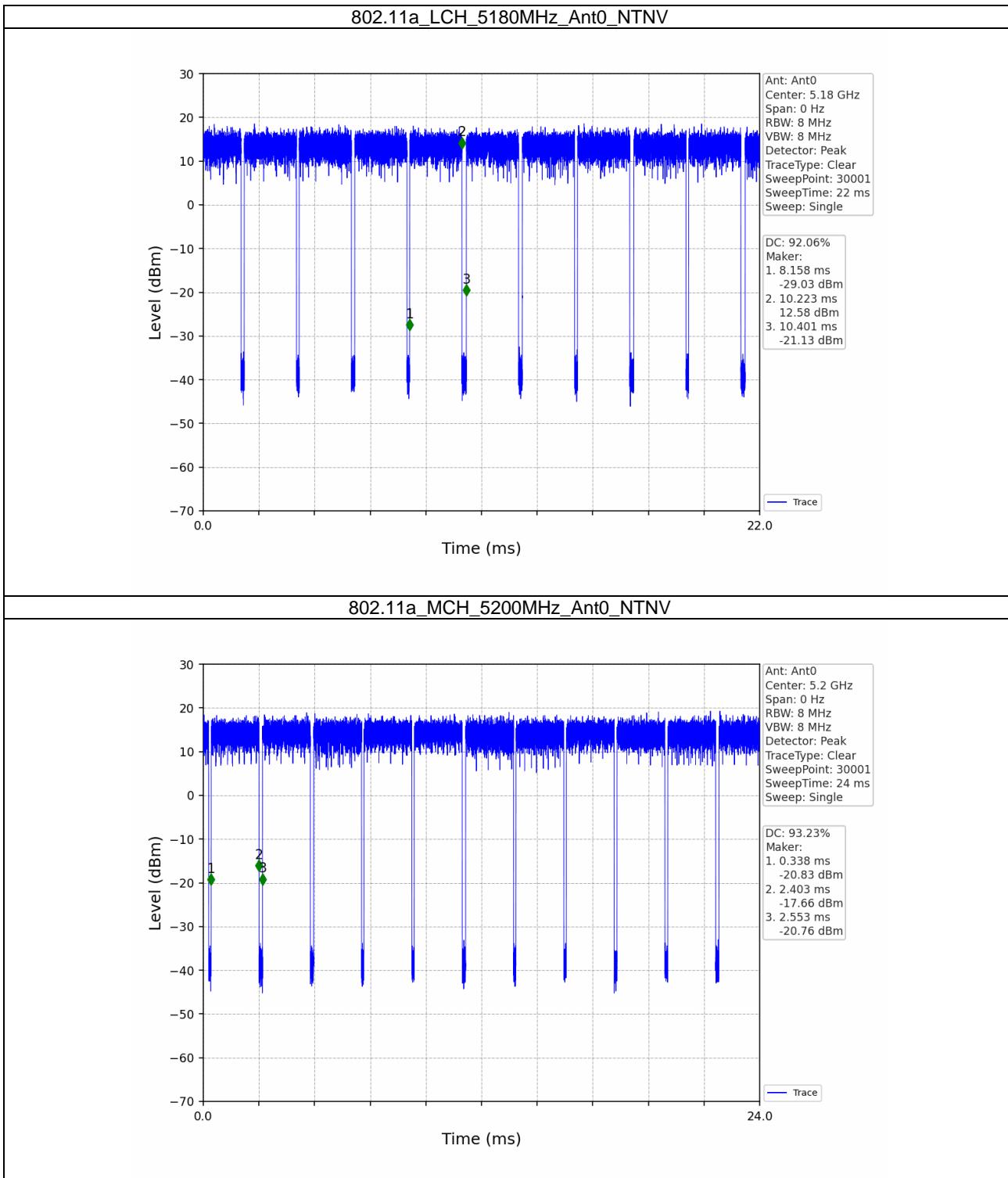
Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.065	2.243	92.06	0.36	3.11
		5200	2.065	2.215	93.23	0.30	1.96
		5240	2.066	2.242	92.15	0.36	3.08
		5745	0.250	0.426	58.69	2.31	11.90
		5785	0.249	0.426	58.45	2.33	13.73
		5825	0.248	0.418	59.33	2.27	12.46
802.11n (HT20)	MIMO	5180	1.925	2.093	91.97	0.36	2.86
		5200	1.926	2.102	91.63	0.38	3.24
		5240	1.926	2.067	93.18	0.31	1.65
		5745	1.925	2.066	93.18	0.31	2.10
		5785	1.926	2.094	91.98	0.36	3.27
		5825	1.926	2.094	91.98	0.36	3.31
802.11n (HT40)	MIMO	5190	0.949	1.108	85.65	0.67	5.21
		5230	0.950	1.117	85.05	0.70	5.85
		5755	0.950	1.126	84.37	0.74	6.58
		5795	0.950	1.127	84.29	0.74	6.57
802.11ac (VHT20)	MIMO	5180	0.994	1.162	85.54	0.68	5.68
		5200	0.994	1.126	88.28	0.54	2.92
		5240	0.992	1.152	86.11	0.65	4.96
		5745	0.992	1.588	62.47	2.04	28.64
		5785	0.994	1.144	86.89	0.61	4.30
		5825	0.994	1.144	86.89	0.61	3.54
802.11ac (VHT40)	MIMO	5190	0.501	0.678	73.89	1.31	10.06
		5230	0.502	0.669	75.04	1.25	9.01
		5755	0.501	0.669	74.89	1.26	9.10
		5795	0.501	0.678	73.89	1.31	10.02
802.11ac (VHT80)	MIMO	5210	0.257	0.425	60.47	2.18	12.43
		5775	0.258	0.416	62.02	2.07	11.02

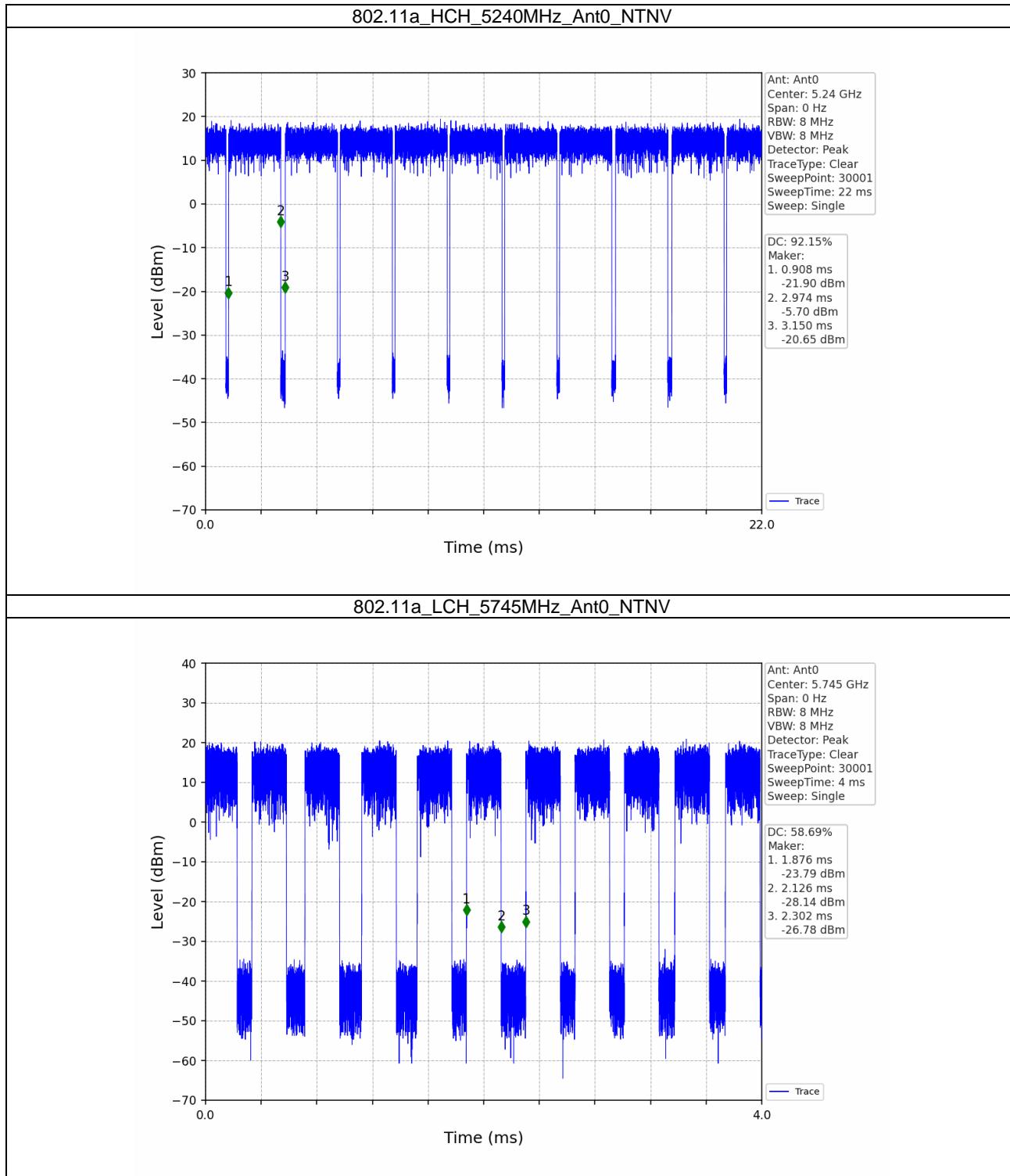
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1.1.2 Test Graph



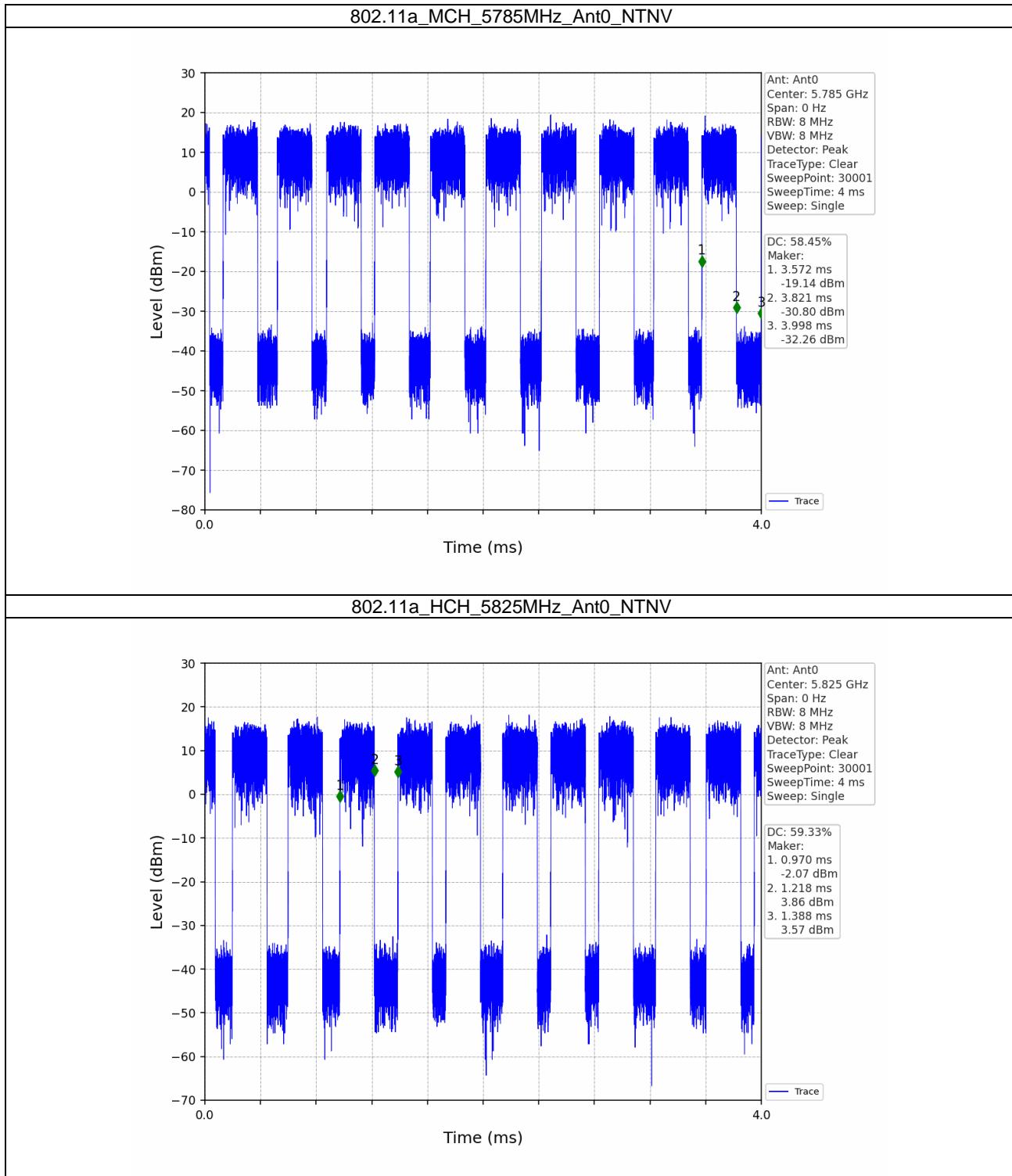


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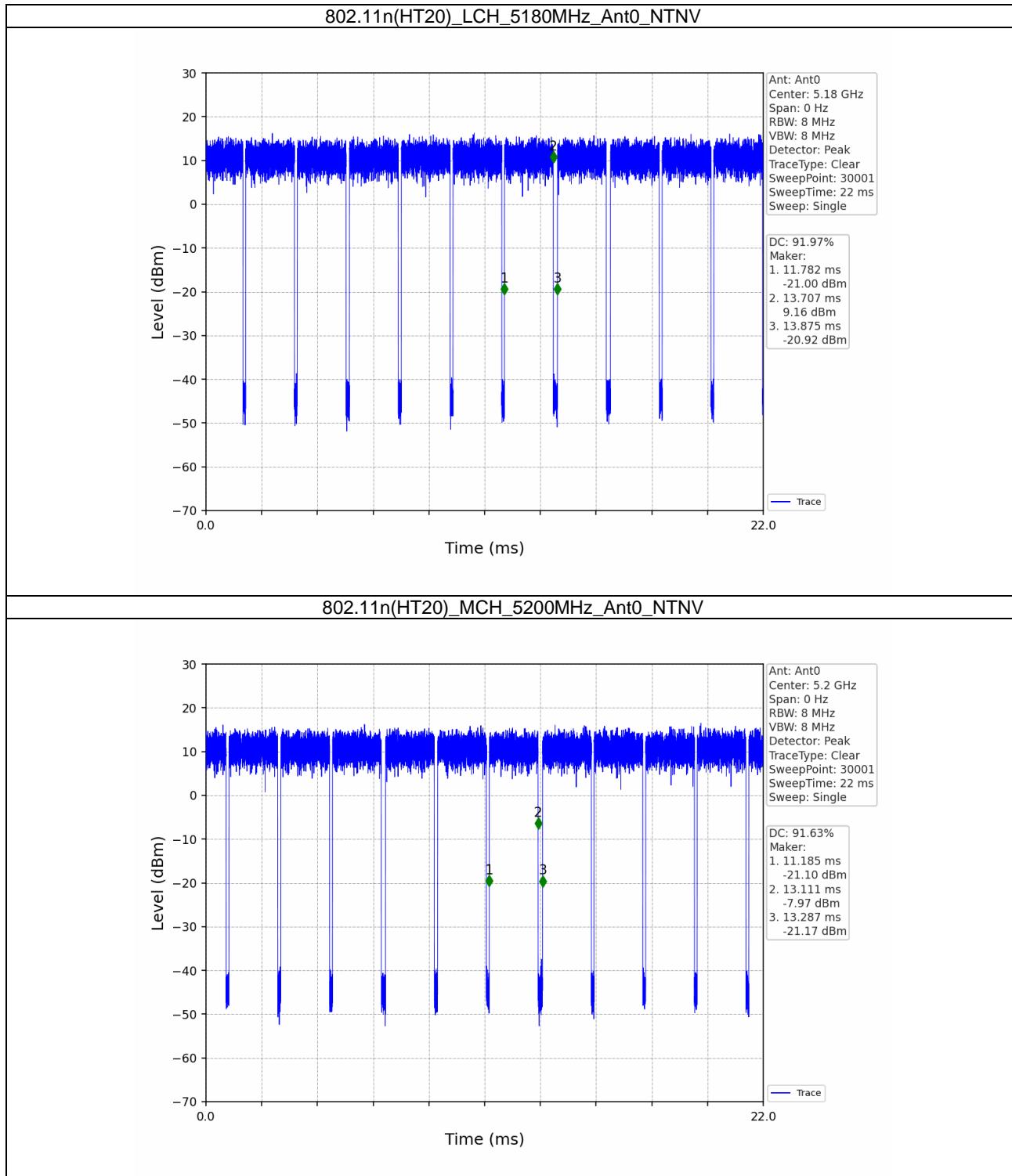
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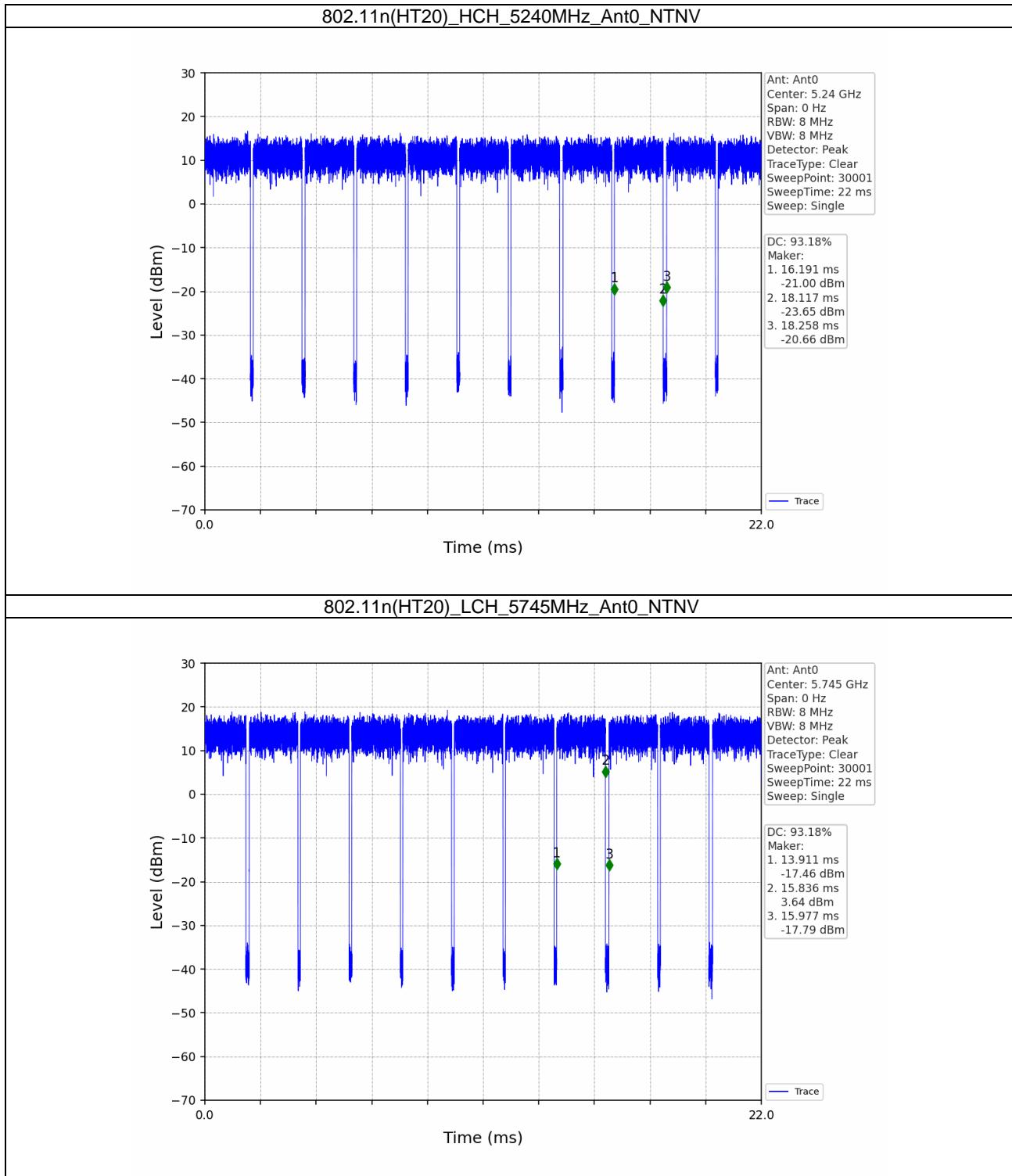
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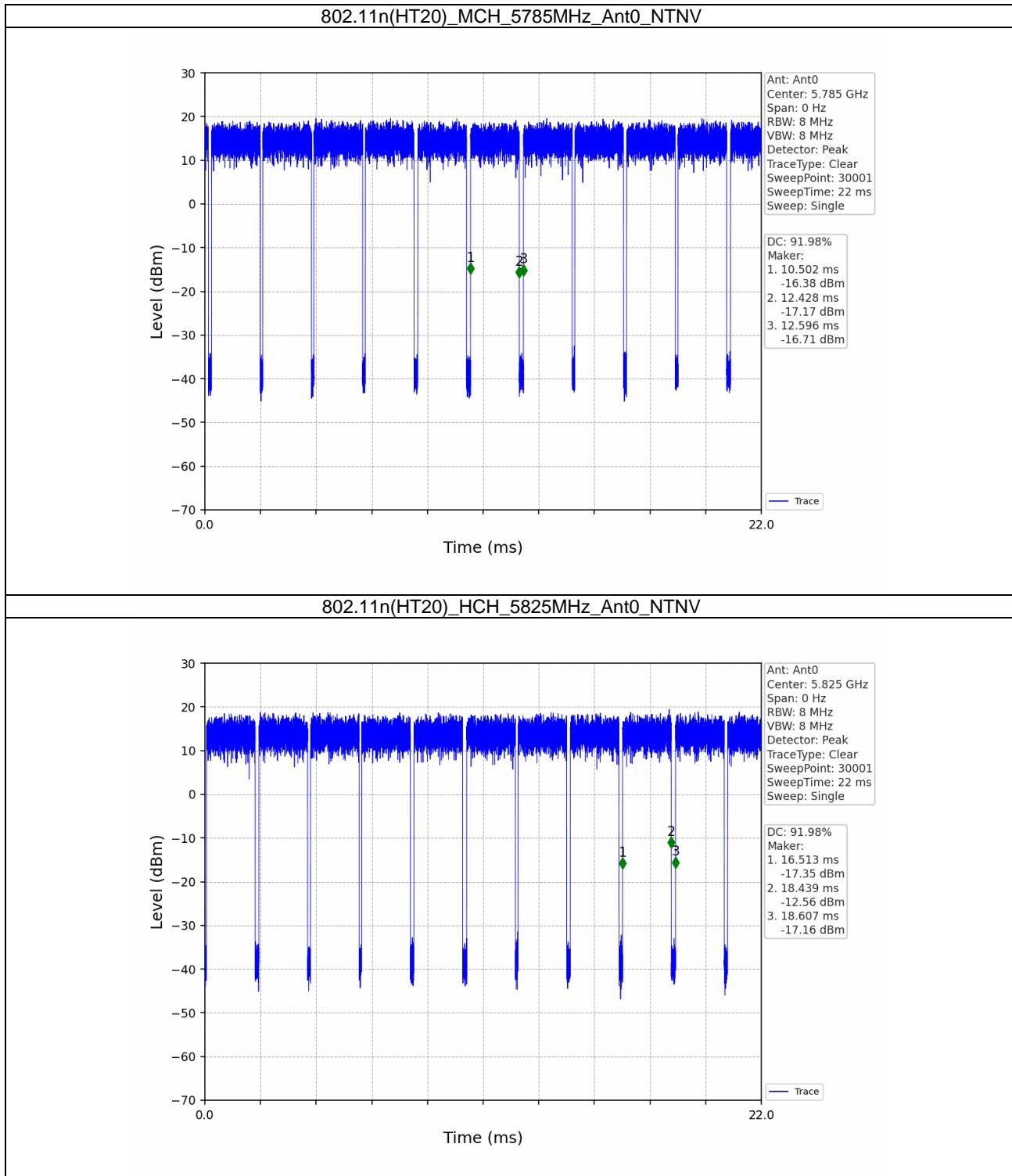


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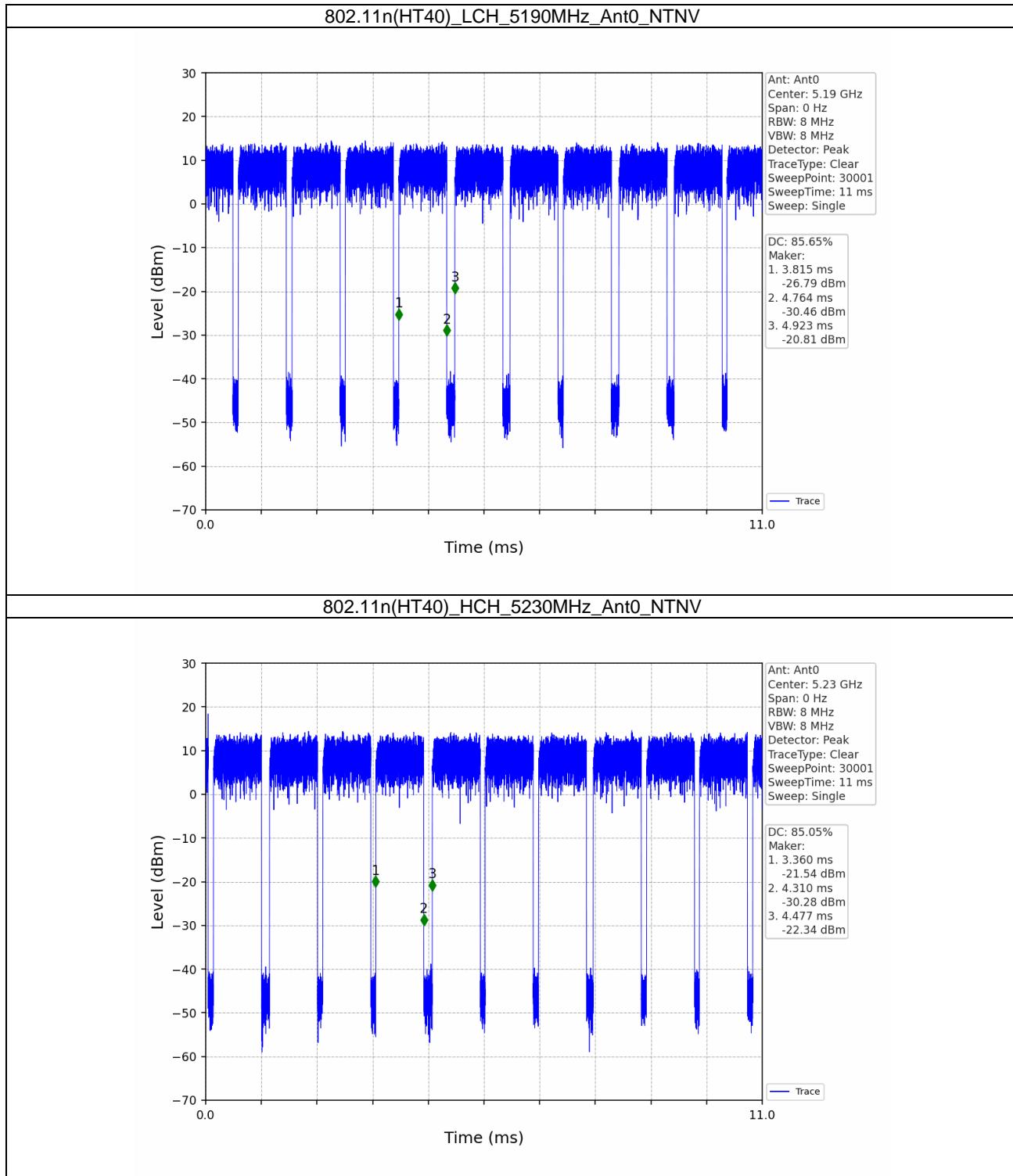


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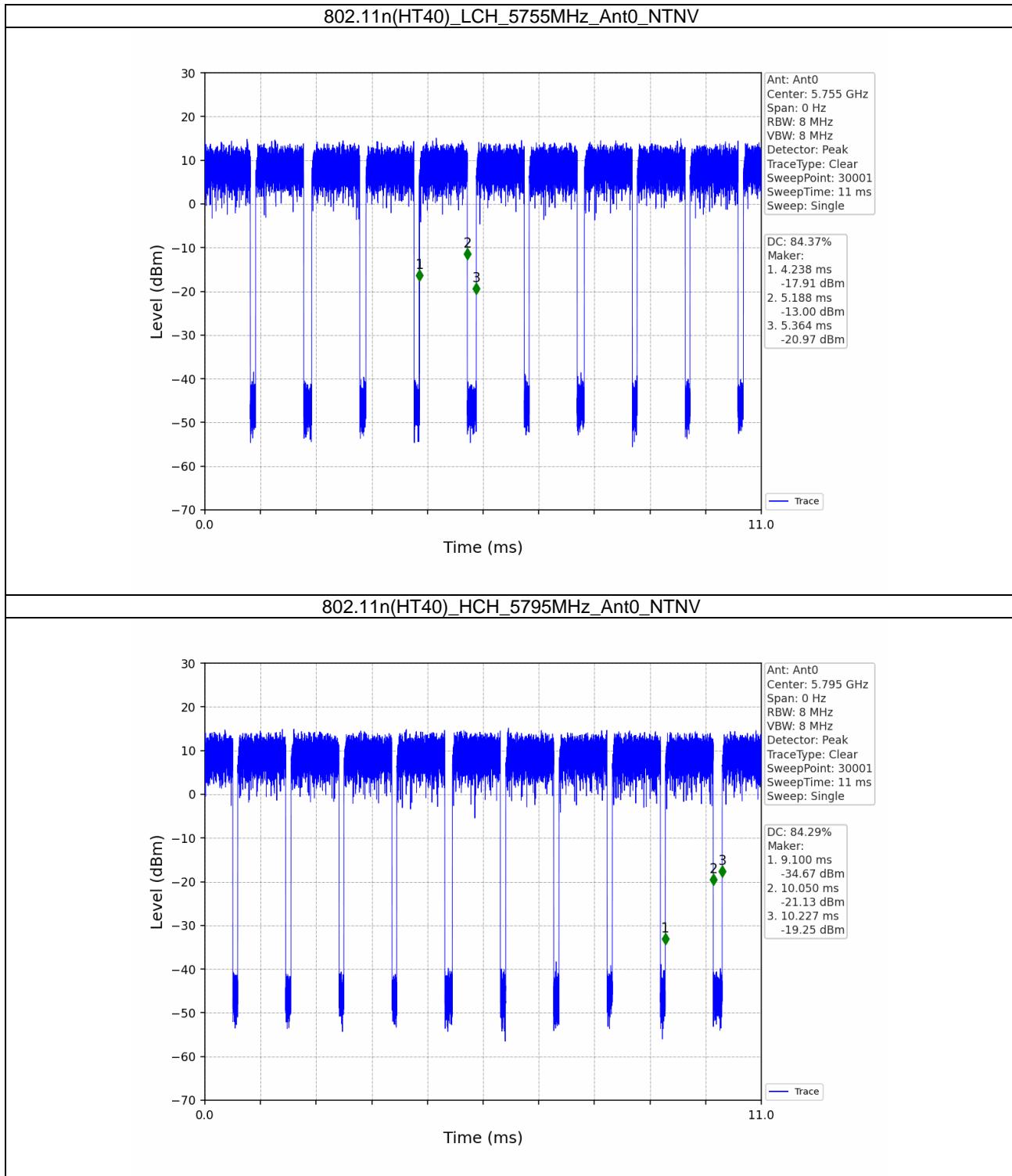


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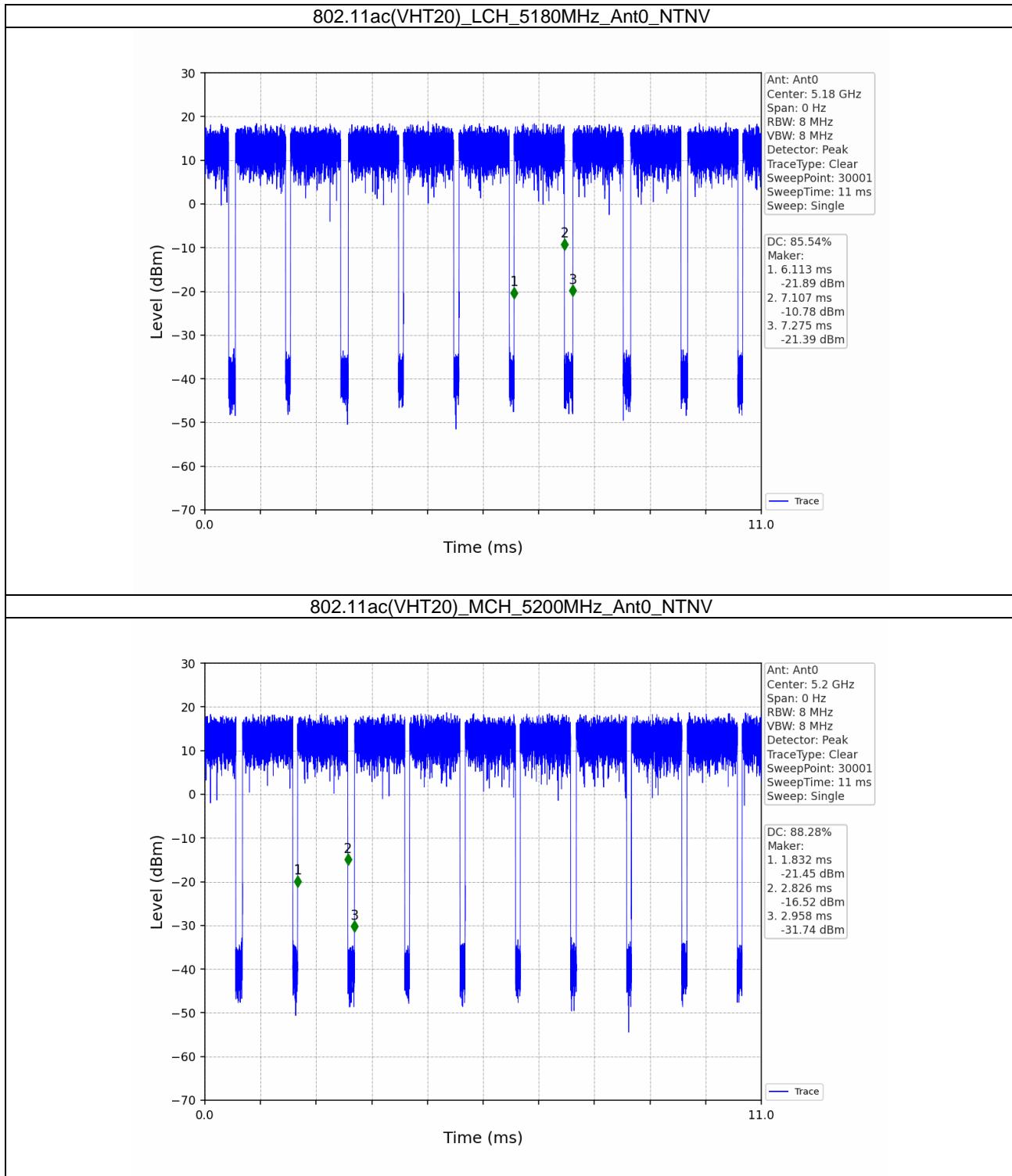


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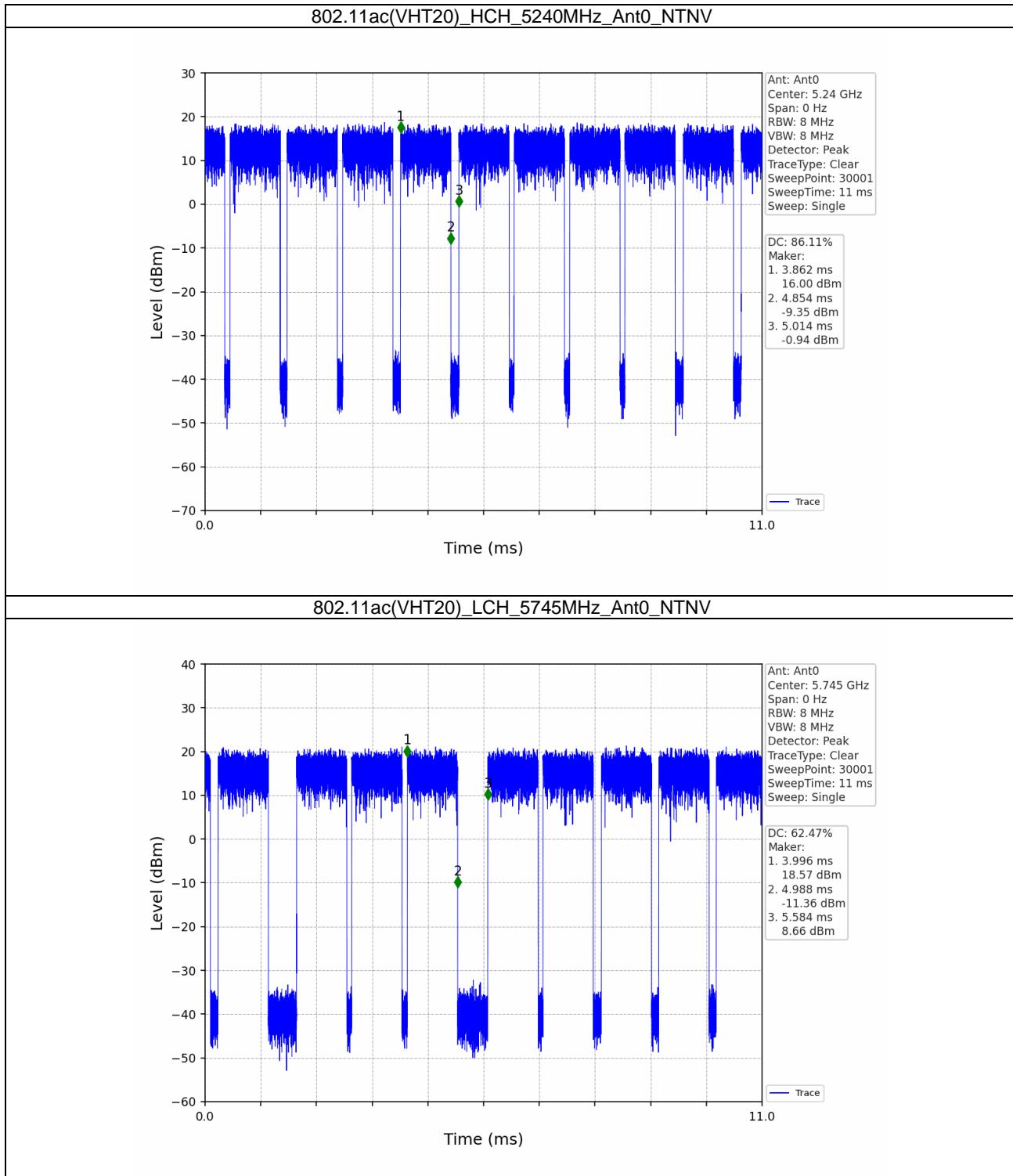


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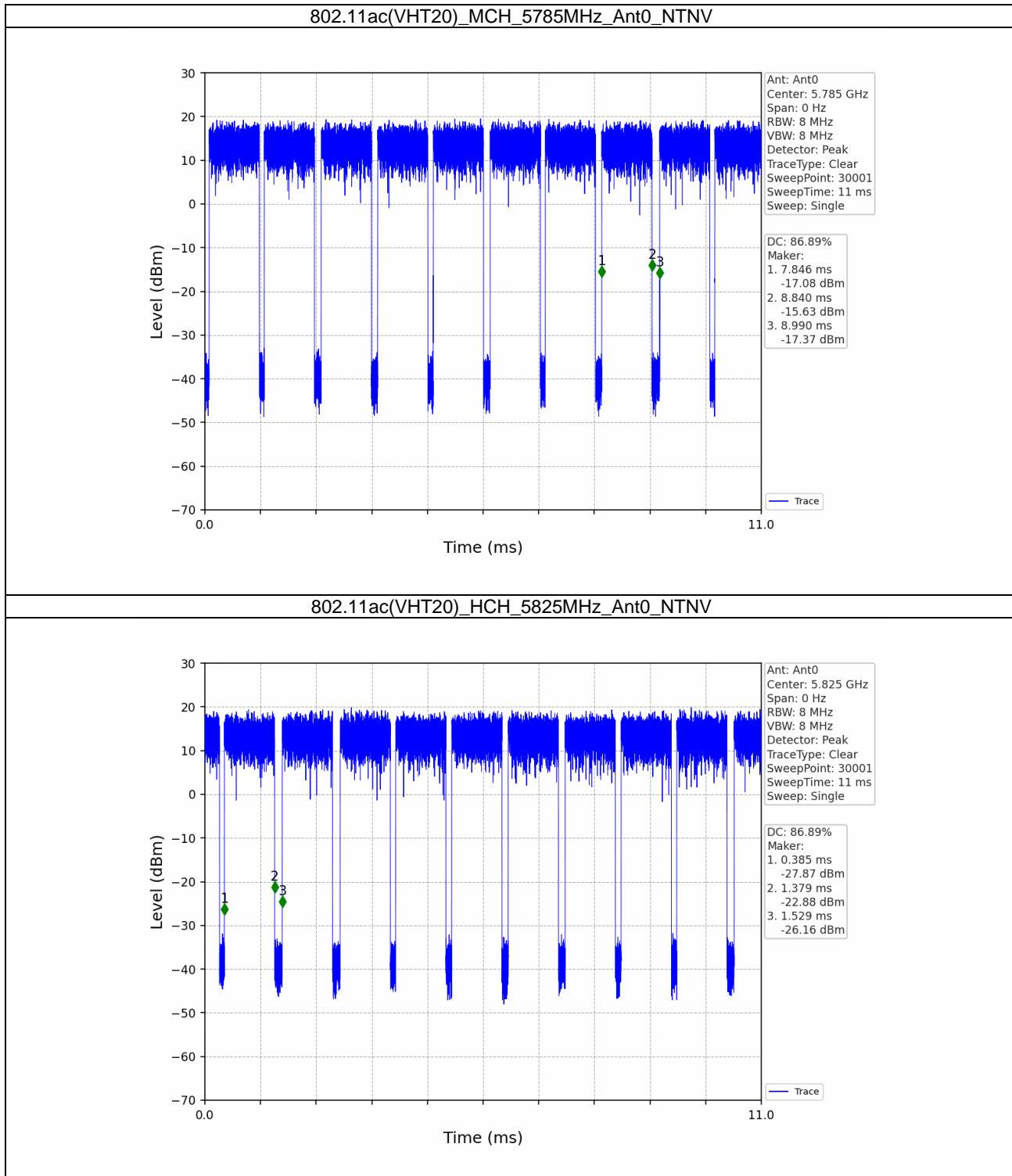
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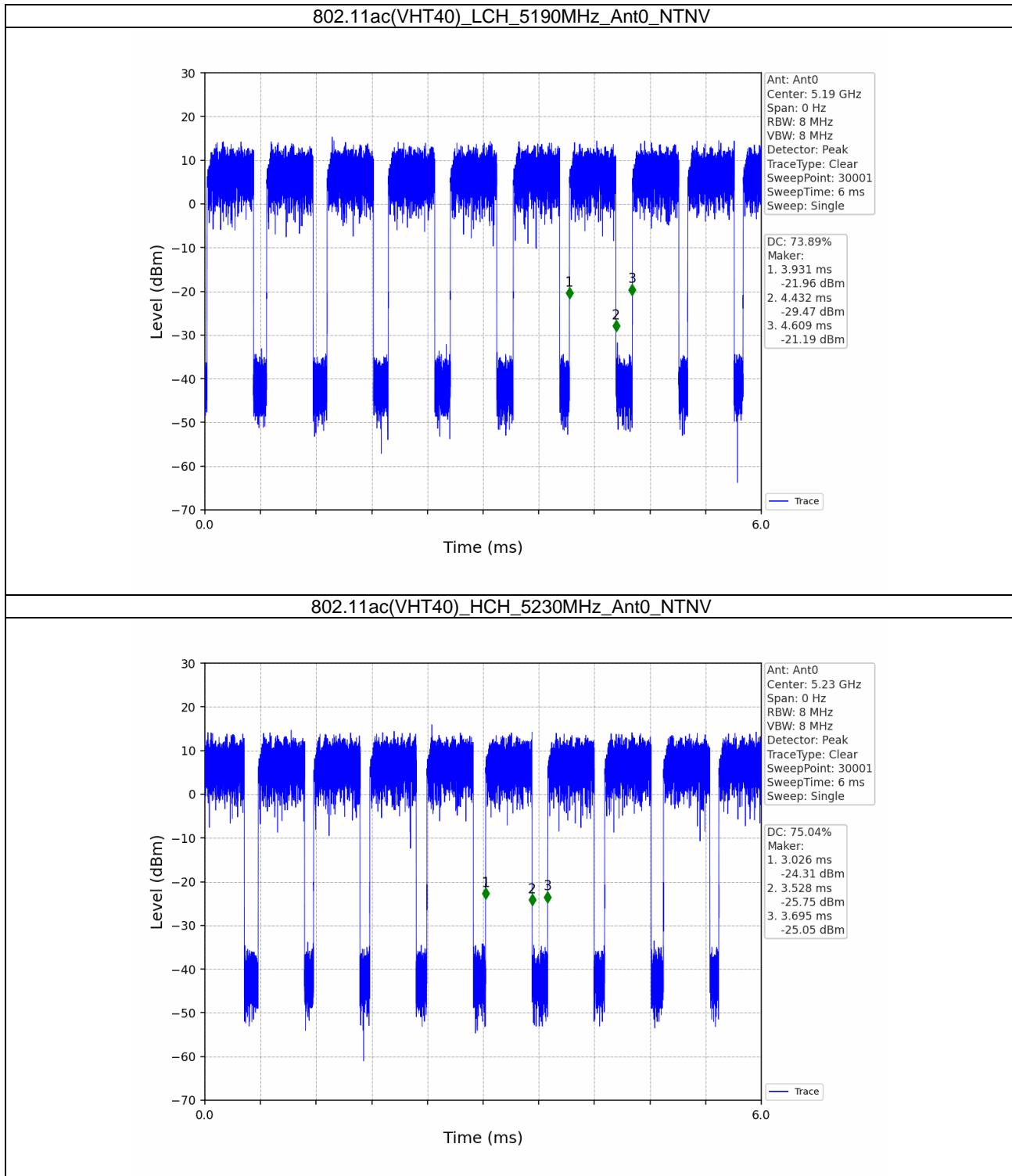


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