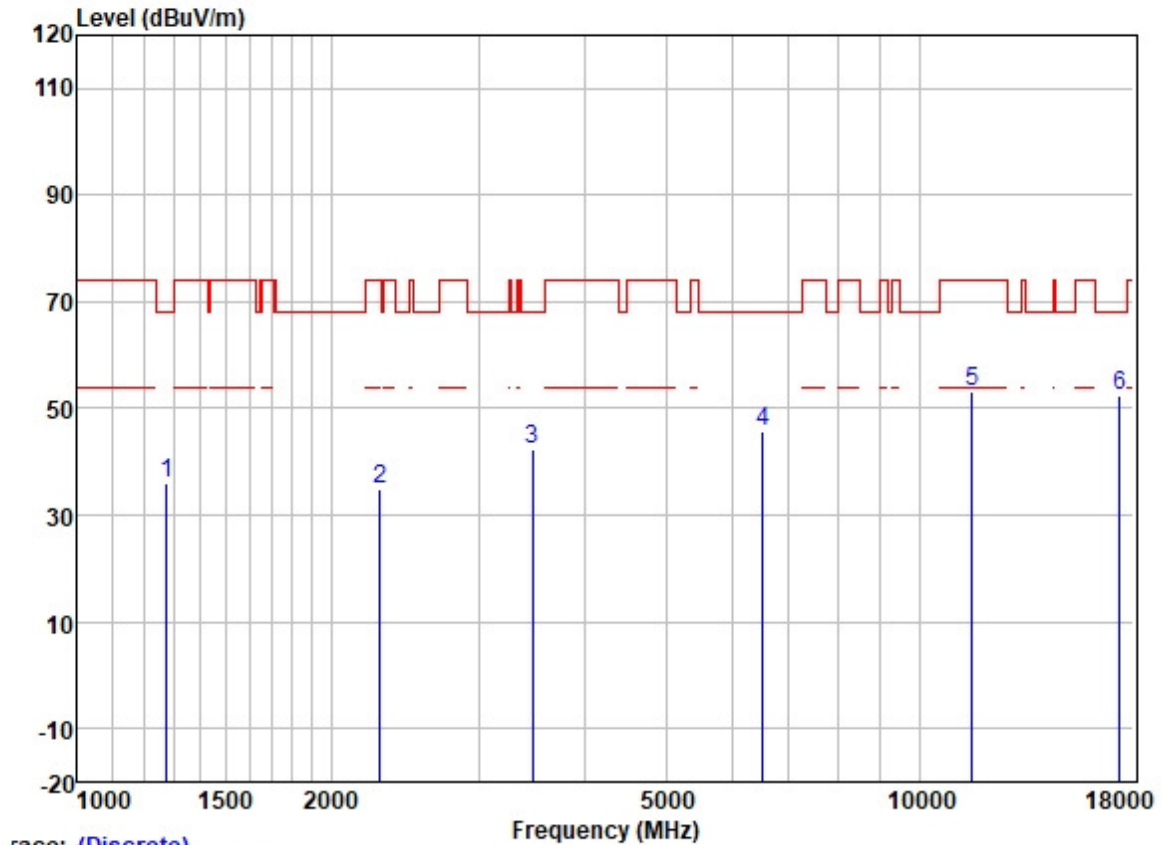


Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



		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	1276.239	46.60	25.12	2.48	38.33	35.87	68.20	-32.33	VERTICAL	Peak
2	2285.344	42.26	27.06	3.29	37.63	34.98	74.00	-39.02	VERTICAL	Peak
3	3473.100	46.11	28.89	4.25	36.95	42.30	68.20	-25.90	VERTICAL	Peak
4	6511.409	42.93	34.00	5.84	37.01	45.76	68.20	-22.44	VERTICAL	Peak
5	11550.000	42.06	39.84	8.40	37.14	53.16	74.00	-20.84	VERTICAL	Peak
6	17325.000	34.12	43.40	10.39	35.32	52.59	68.20	-15.61	VERTICAL	Peak

7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

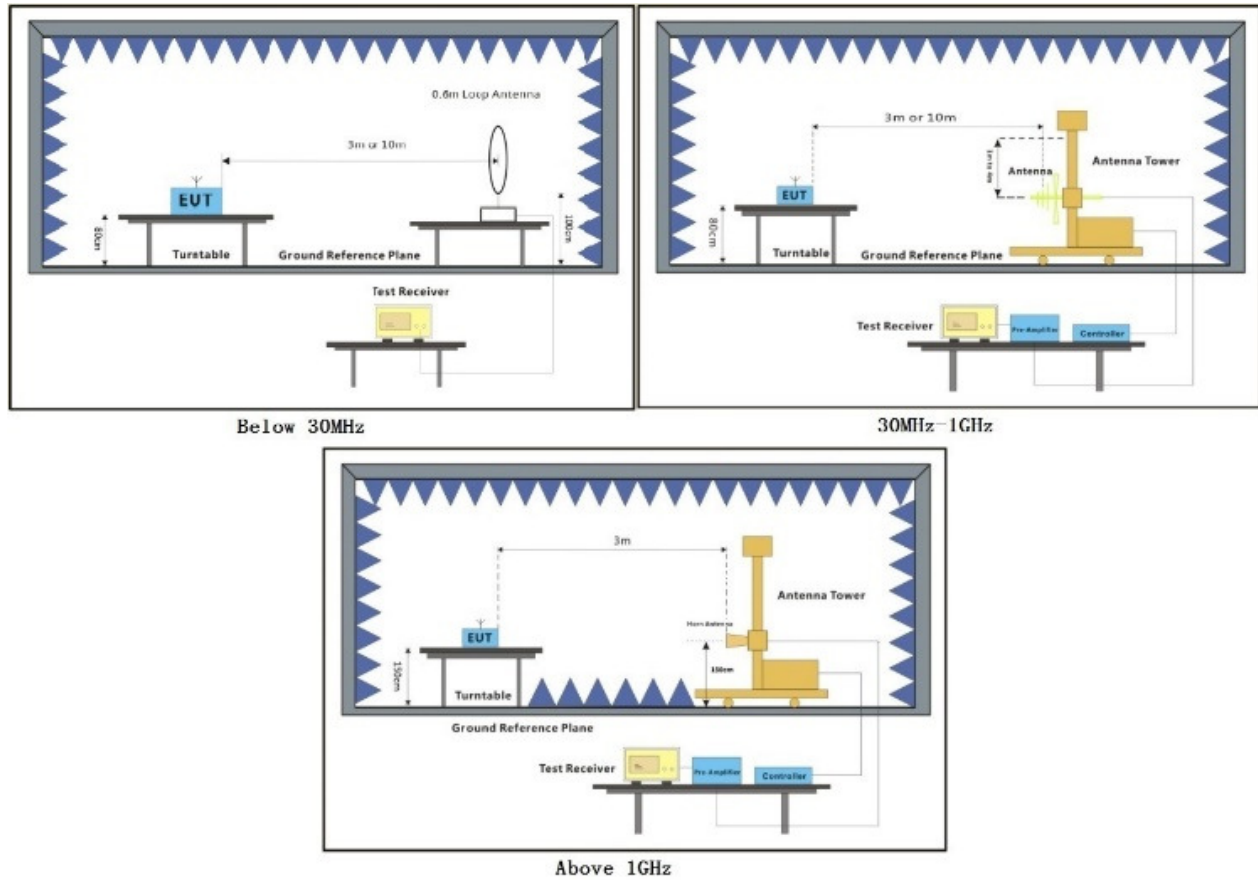
Humidity: 53.9 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Pre-scan	07	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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2:

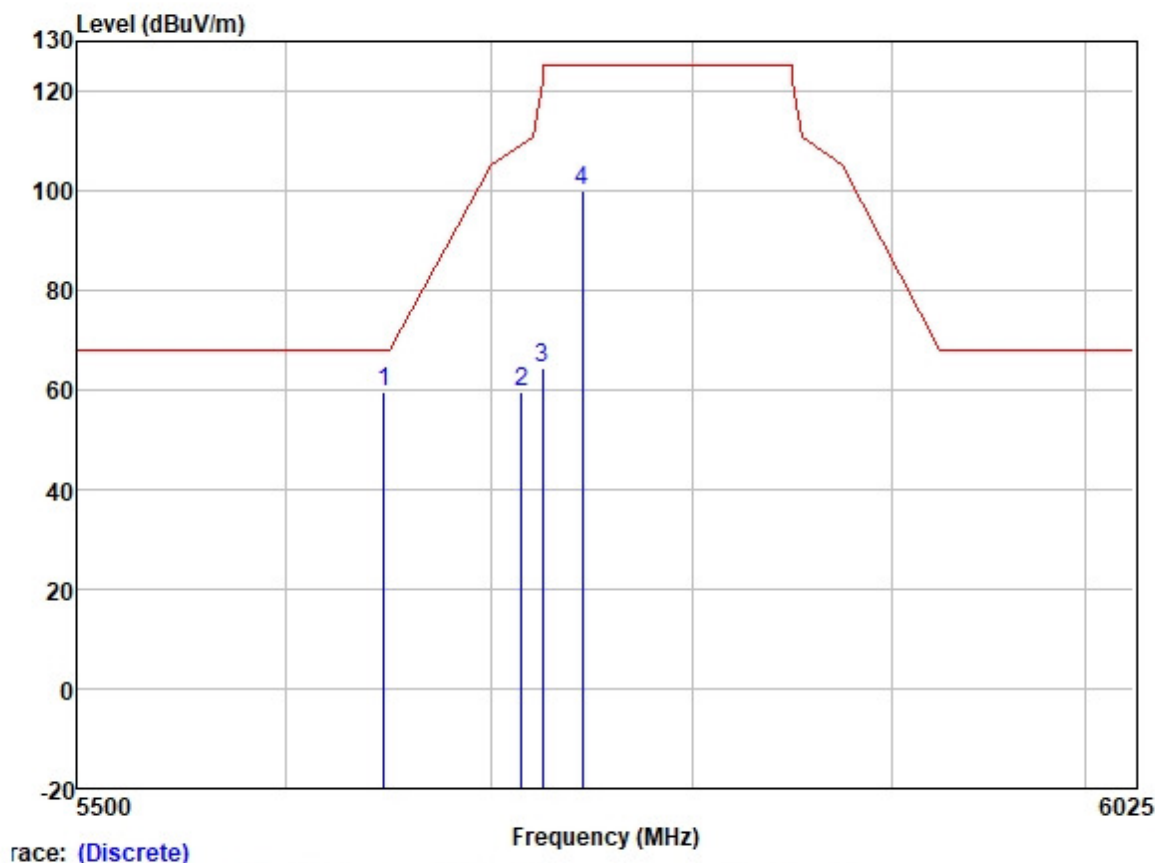
Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the MIMO mode is the worst-case mode. only record the worst-case test data in this report.



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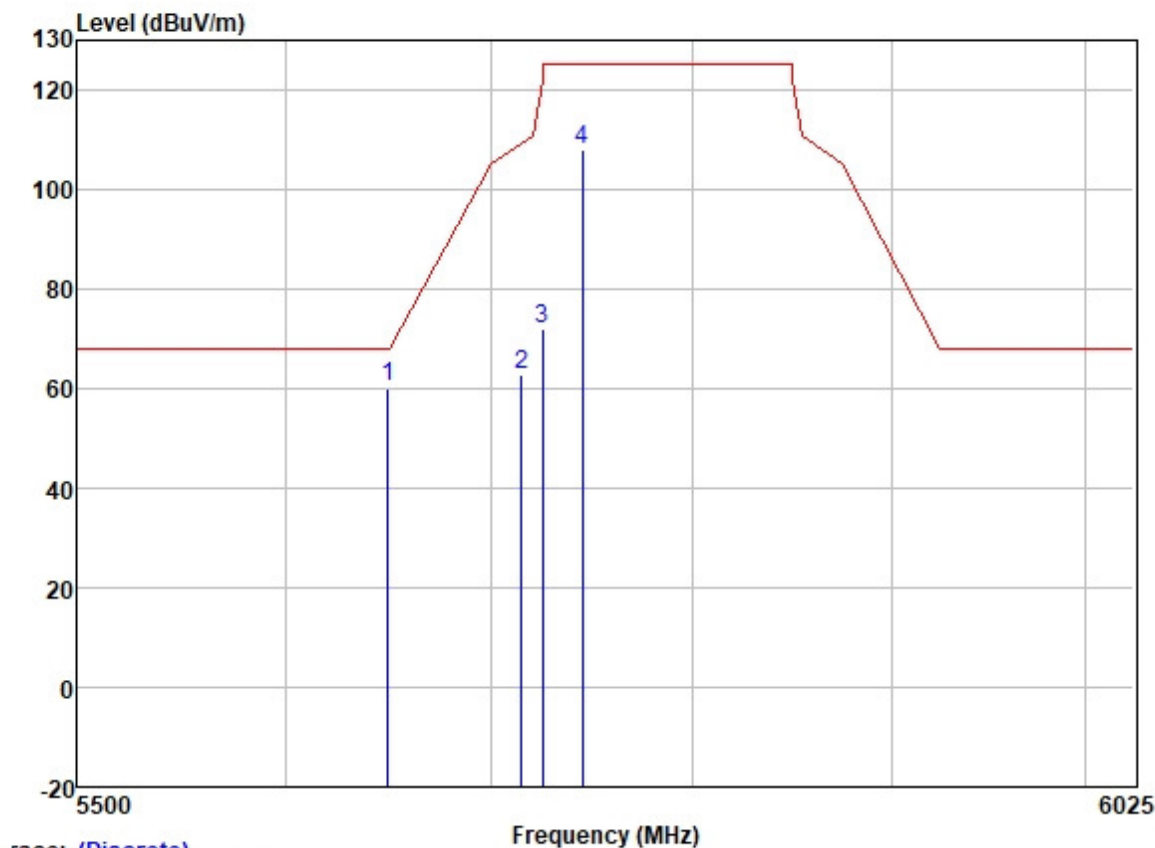
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

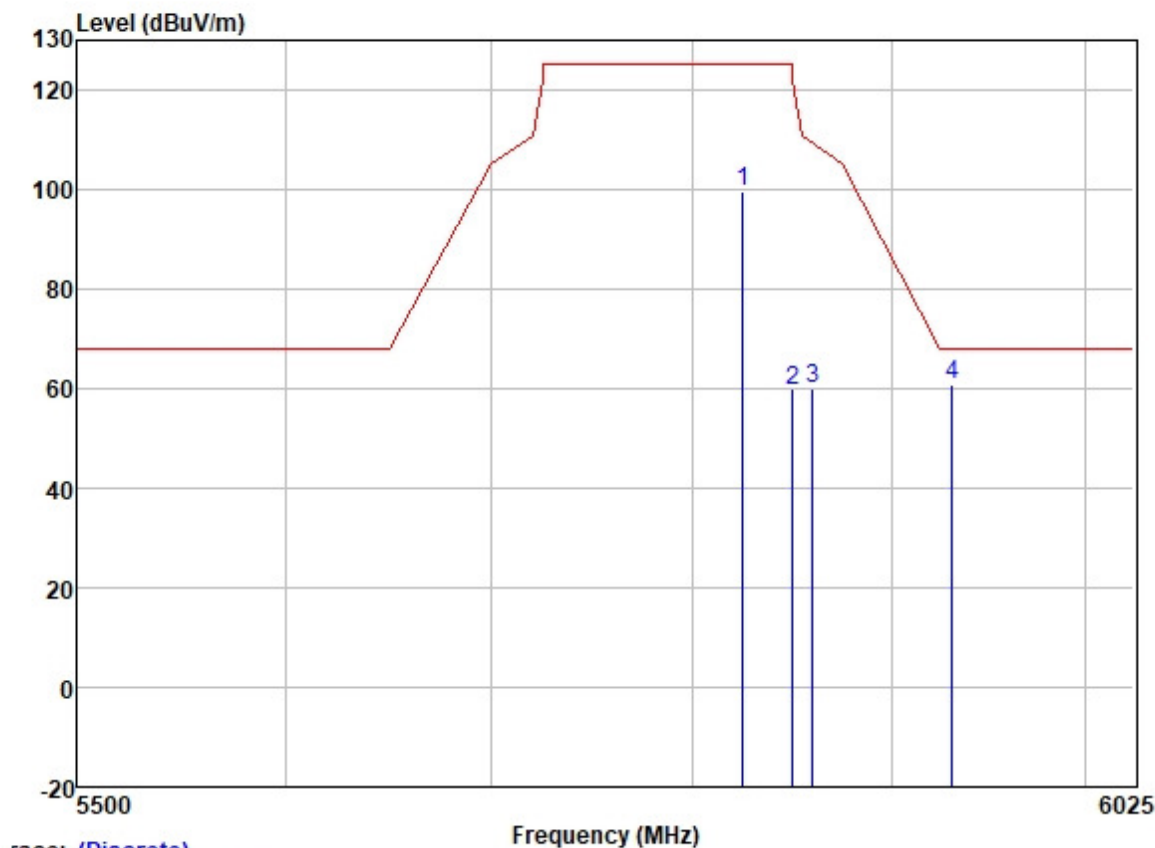
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5647.334	58.36	31.95	6.35	36.89	59.77	68.20	-8.43	HORIZONTAL Peak
2	5715.000	58.13	32.04	6.33	36.89	59.61	109.40	-49.79	HORIZONTAL Peak
3	5725.000	63.10	32.07	6.25	36.89	64.53	122.20	-57.67	HORIZONTAL Peak
4	5745.000	98.51	32.10	6.20	36.89	99.92	125.20	-25.28	HORIZONTAL Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.550	58.79	31.95	6.35	36.89	60.20	68.20	-8.00	VERTICAL	Peak
2	5715.000	61.18	32.04	6.33	36.89	62.66	109.40	-46.74	VERTICAL	Peak
3	5725.000	70.61	32.07	6.25	36.89	72.04	122.20	-50.16	VERTICAL	Peak
4	5745.000	106.49	32.10	6.20	36.89	107.90	125.20	-17.30	VERTICAL	Peak

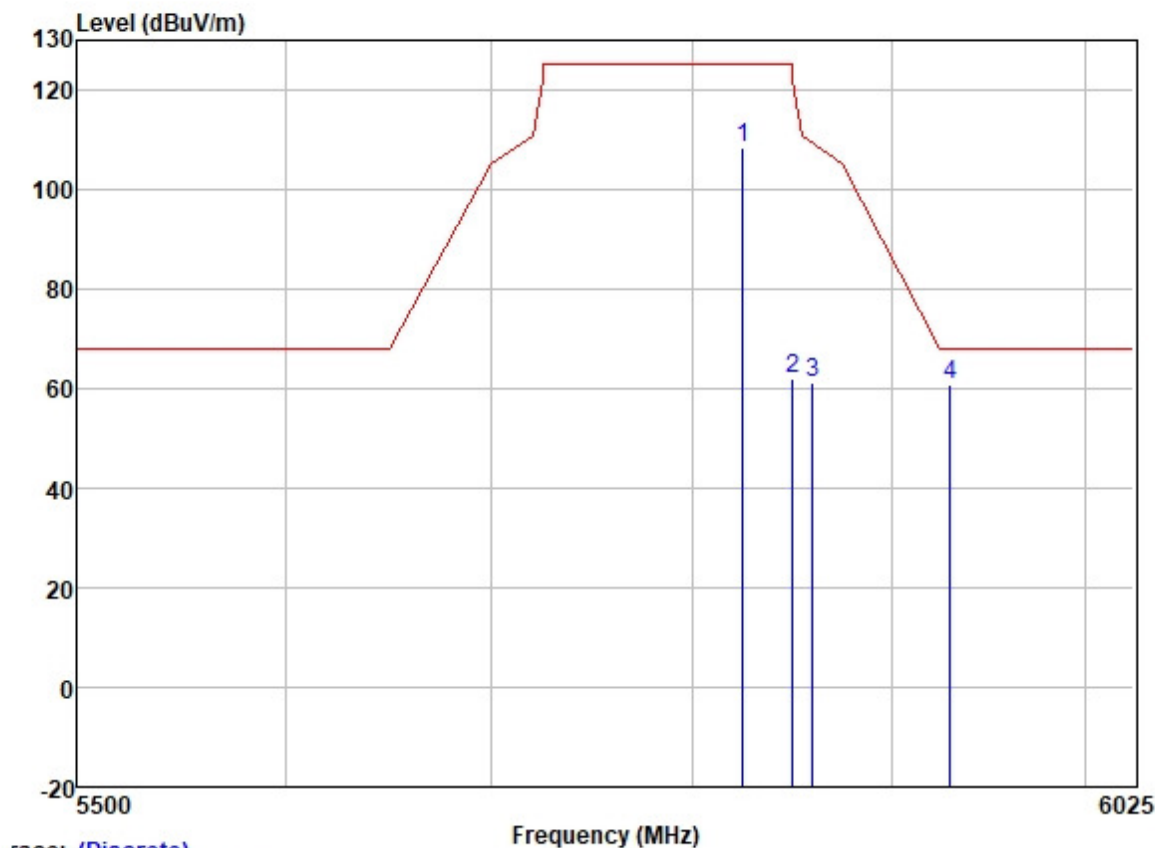
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

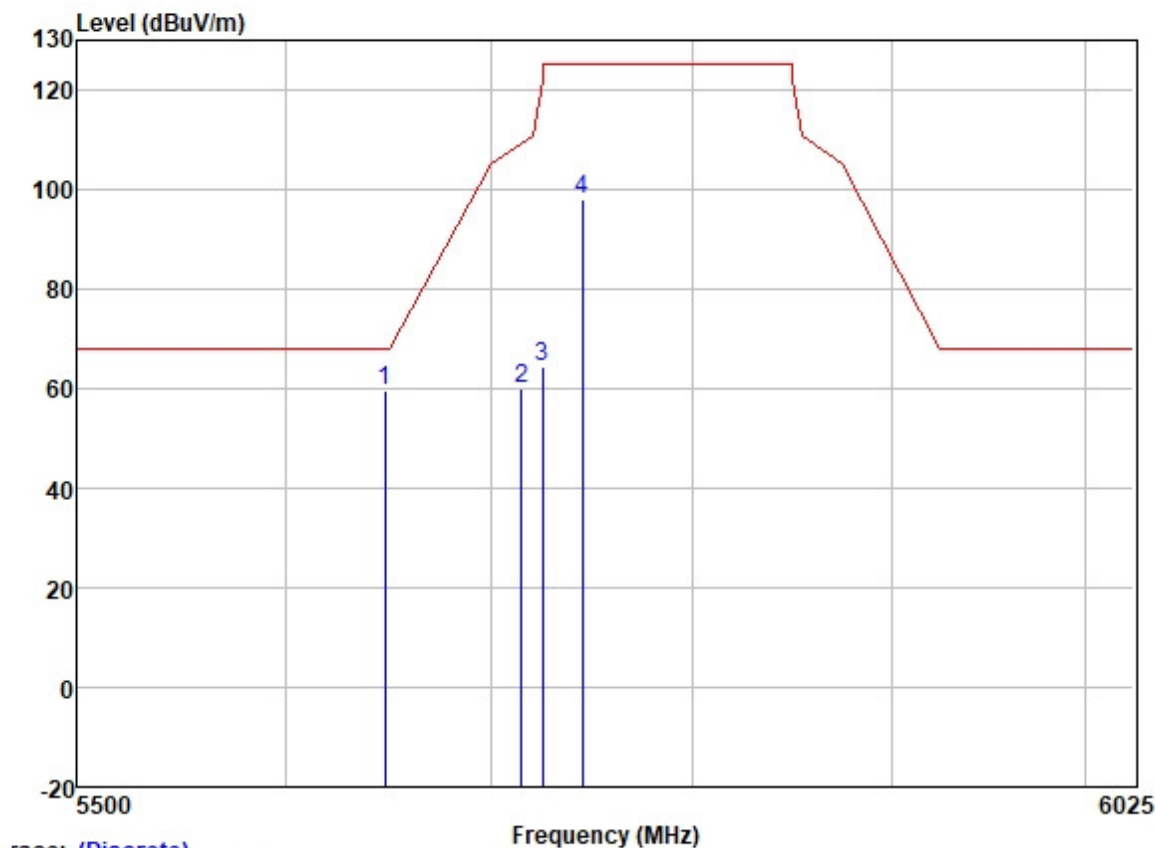
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	98.34	32.23	6.04	36.90	99.71	125.20	-25.49	HORIZONTAL	Peak
2	5850.000	58.45	32.25	6.00	36.90	59.80	122.20	-62.40	HORIZONTAL	Peak
3	5860.000	58.75	32.27	5.96	36.90	60.08	109.40	-49.32	HORIZONTAL	Peak
4	5931.195	59.46	32.34	6.00	36.90	60.90	68.20	-7.30	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



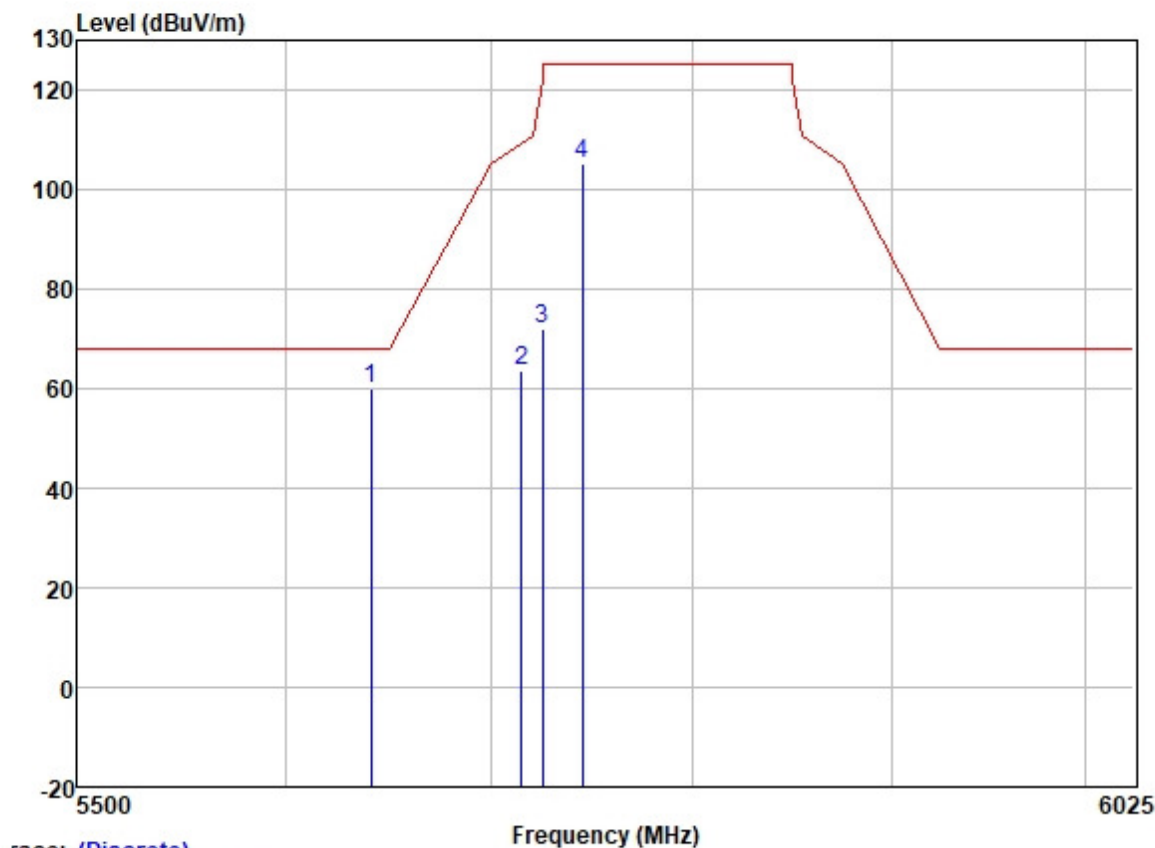
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5825.000	106.90	32.23	6.04	36.90	108.27	125.20	-16.93	VERTICAL Peak
2	5850.000	60.51	32.25	6.00	36.90	61.86	122.20	-60.34	VERTICAL Peak
3	5860.000	59.70	32.27	5.96	36.90	61.03	109.40	-48.37	VERTICAL Peak
4	5929.942	59.50	32.34	6.00	36.90	60.94	68.20	-7.26	VERTICAL Peak

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



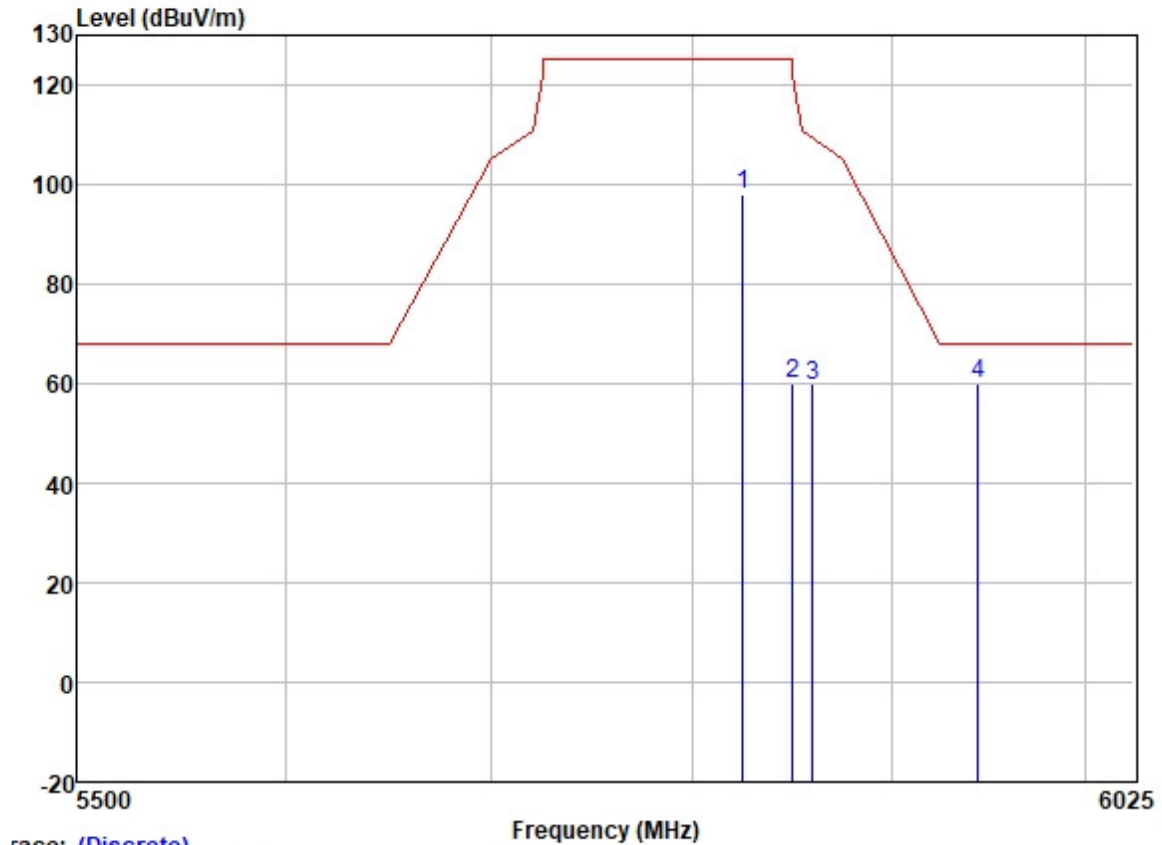
	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5647.888	58.34	31.95	6.35	36.89	59.75	68.20	-8.45	HORIZONTAL Peak
2	5715.000	58.54	32.04	6.33	36.89	60.02	109.40	-49.38	HORIZONTAL Peak
3	5725.000	63.09	32.07	6.25	36.89	64.52	122.20	-57.68	HORIZONTAL Peak
4	5745.000	96.55	32.10	6.20	36.89	97.96	125.20	-27.24	HORIZONTAL Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5641.106	58.58	31.95	6.35	36.89	59.99	68.20	-8.21	VERTICAL Peak
2	5715.000	61.93	32.04	6.33	36.89	63.41	109.40	-45.99	VERTICAL Peak
3	5725.000	70.77	32.07	6.25	36.89	72.20	122.20	-50.00	VERTICAL Peak
4	5745.000	103.86	32.10	6.20	36.89	105.27	125.20	-19.93	VERTICAL Peak

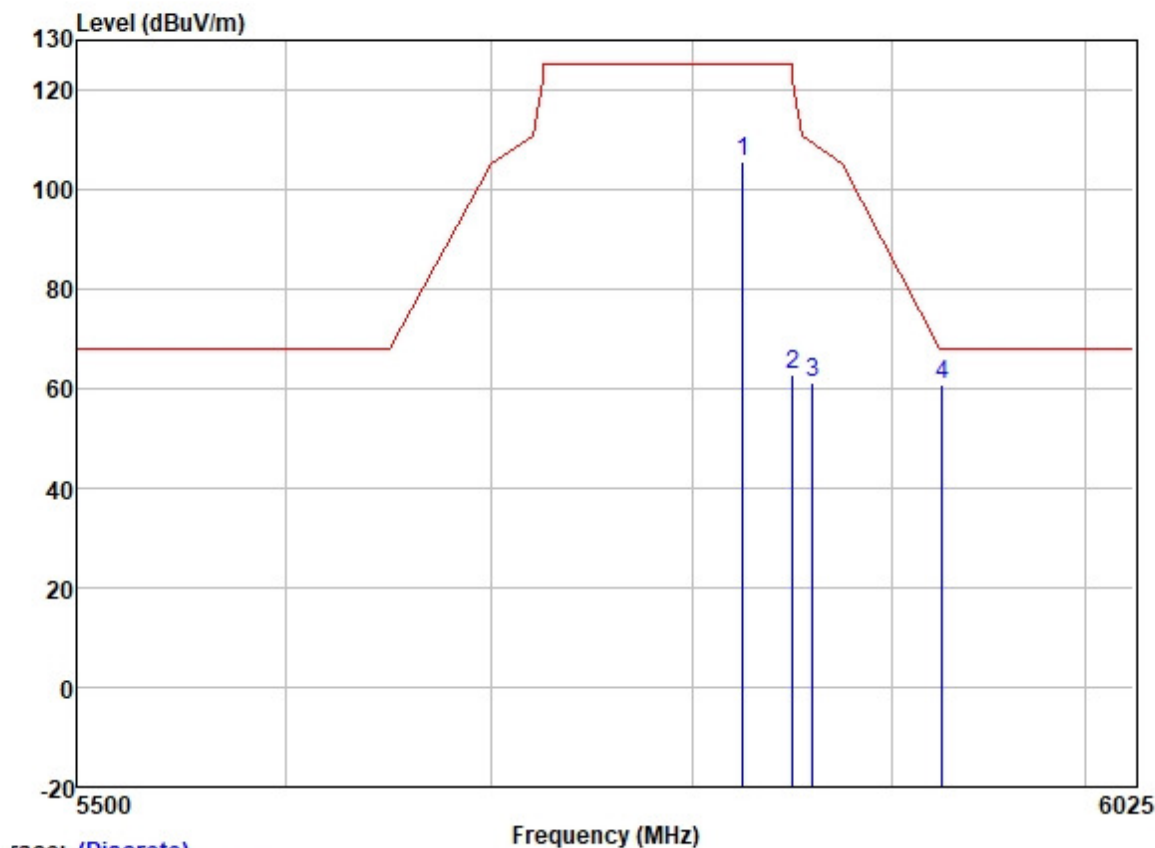
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	5825.000	96.74	32.23	6.04	36.90	98.11	125.20	-27.09	HORIZONTAL Peak
2	5850.000	58.49	32.25	6.00	36.90	59.84	122.20	-62.36	HORIZONTAL Peak
3	5860.000	58.47	32.27	5.96	36.90	59.80	109.40	-49.60	HORIZONTAL Peak
4	5944.529	58.68	32.36	6.05	36.90	60.19	68.20	-8.01	HORIZONTAL Peak

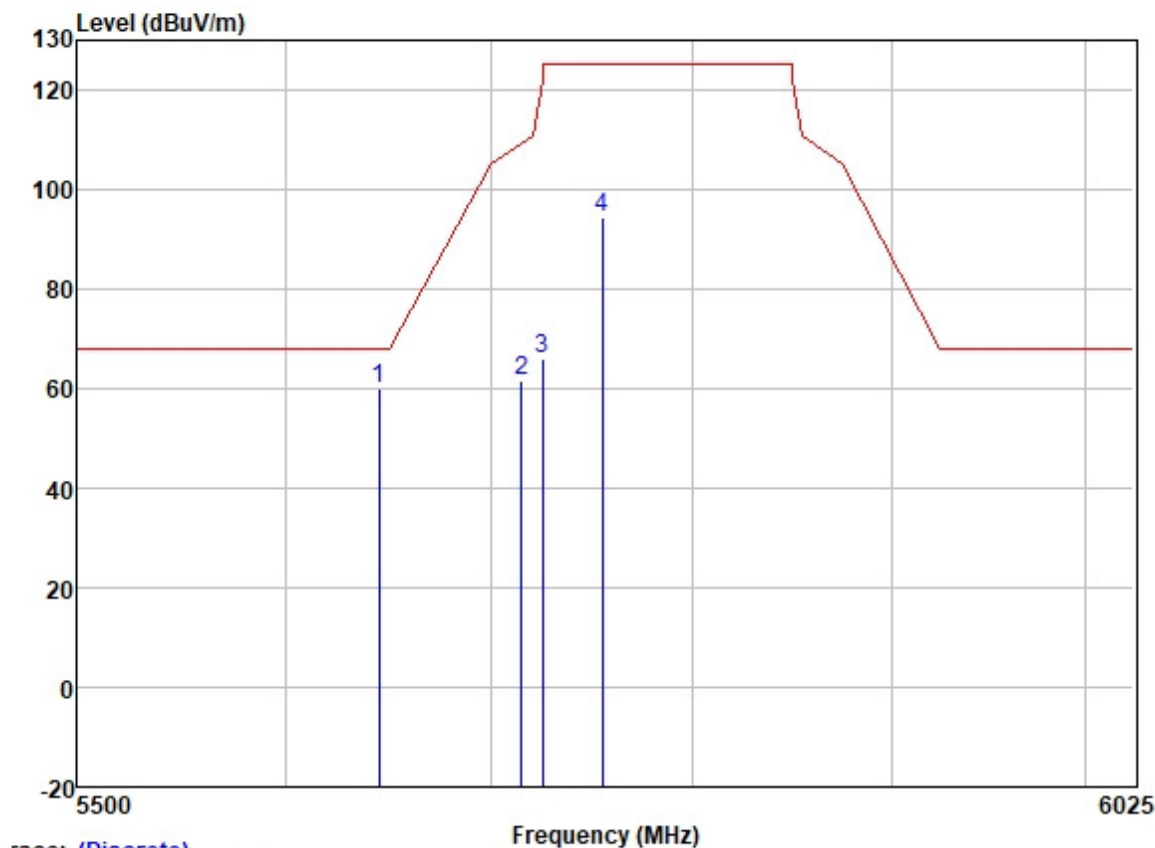
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Trace: (Discrete)

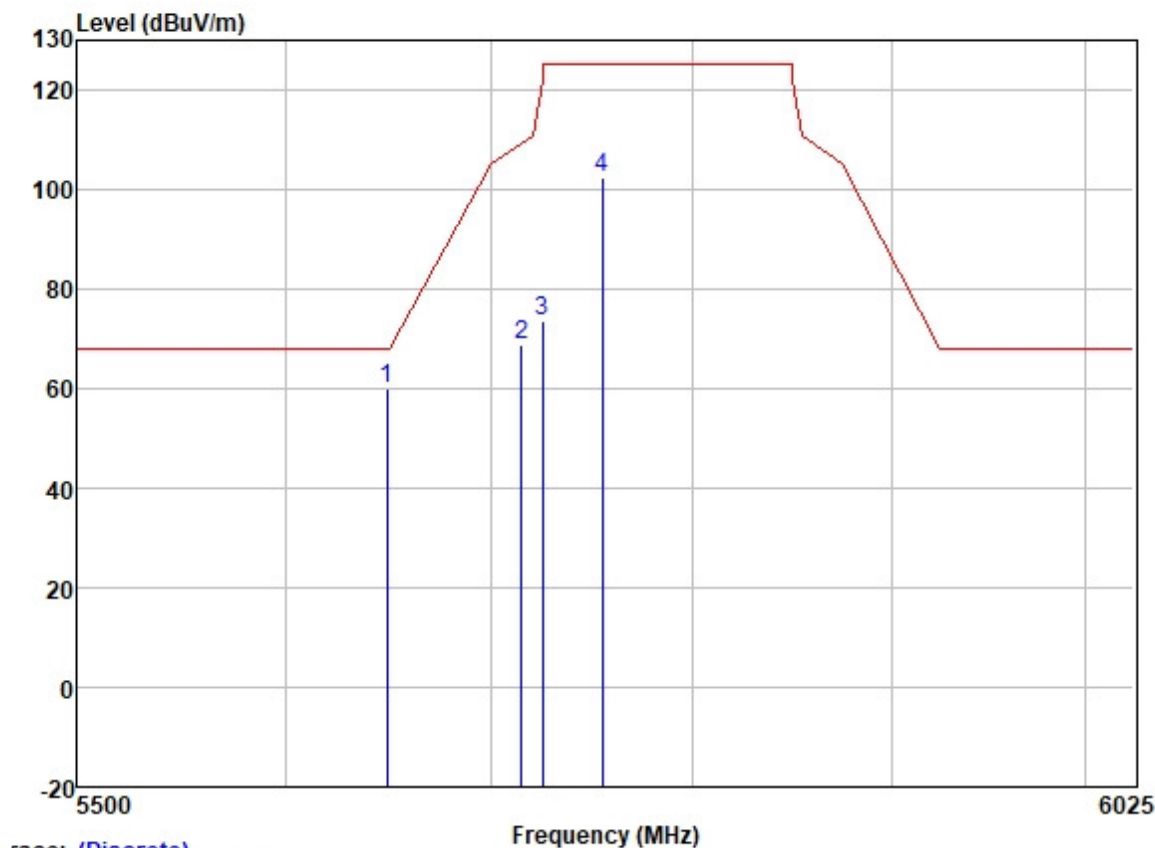
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5825.000	104.22	32.23	6.04	36.90	105.59	125.20	-19.61	VERTICAL Peak
2	5850.000	61.47	32.25	6.00	36.90	62.82	122.20	-59.38	VERTICAL Peak
3	5860.000	59.82	32.27	5.96	36.90	61.15	109.40	-48.25	VERTICAL Peak
4	5926.340	59.44	32.34	6.00	36.90	60.88	68.20	-7.32	VERTICAL Peak

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5644.742	58.59	31.95	6.35	36.89	60.00	68.20	-8.20	HORIZONTAL	Peak
2	5715.000	60.16	32.04	6.33	36.89	61.64	109.40	-47.76	HORIZONTAL	Peak
3	5725.000	64.64	32.07	6.25	36.89	66.07	122.20	-56.13	HORIZONTAL	Peak
4	5755.000	93.06	32.10	6.20	36.89	94.47	125.20	-30.73	HORIZONTAL	Peak

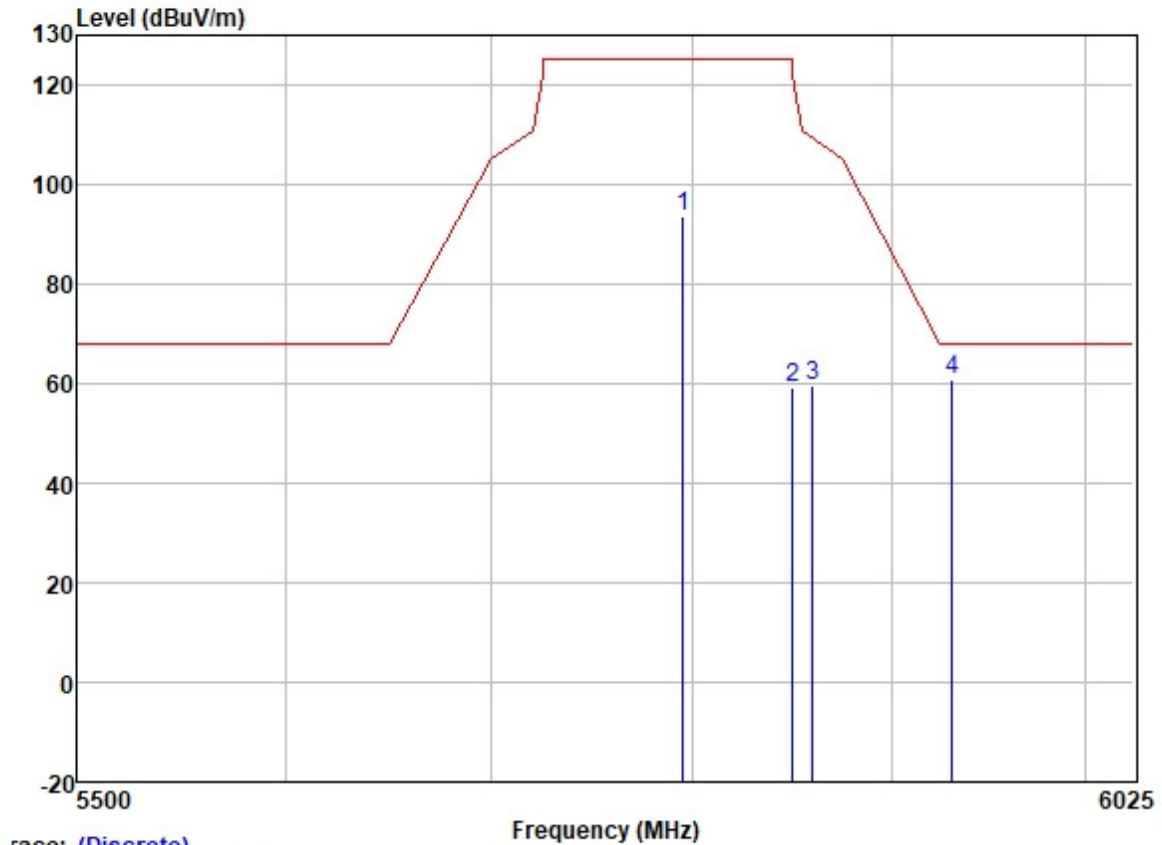
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5649.029	58.53	31.95	6.35	36.89	59.94	68.20	-8.26	VERTICAL Peak
2	5715.000	67.15	32.04	6.33	36.89	68.63	109.40	-40.77	VERTICAL Peak
3	5725.000	72.26	32.07	6.25	36.89	73.69	122.20	-48.51	VERTICAL Peak
4	5755.000	100.90	32.10	6.20	36.89	102.31	125.20	-22.89	VERTICAL Peak

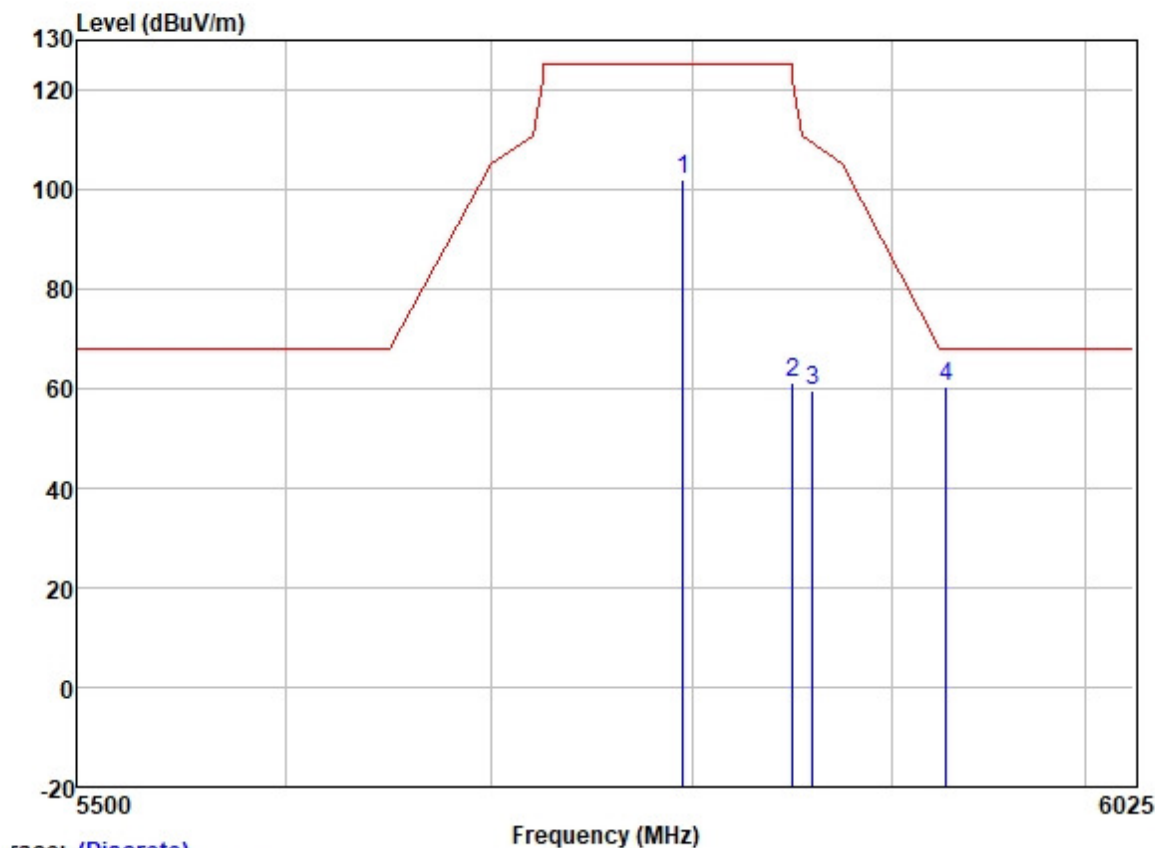
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



Trace: (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	5795.000	92.38	32.19	6.10	36.89	93.78	125.20	-31.42	HORIZONTAL	Peak
2	5850.000	57.68	32.25	6.00	36.90	59.03	122.20	-63.17	HORIZONTAL	Peak
3	5860.000	58.14	32.27	5.96	36.90	59.47	109.40	-49.93	HORIZONTAL	Peak
4	5930.979	59.31	32.34	6.00	36.90	60.75	68.20	-7.45	HORIZONTAL	Peak

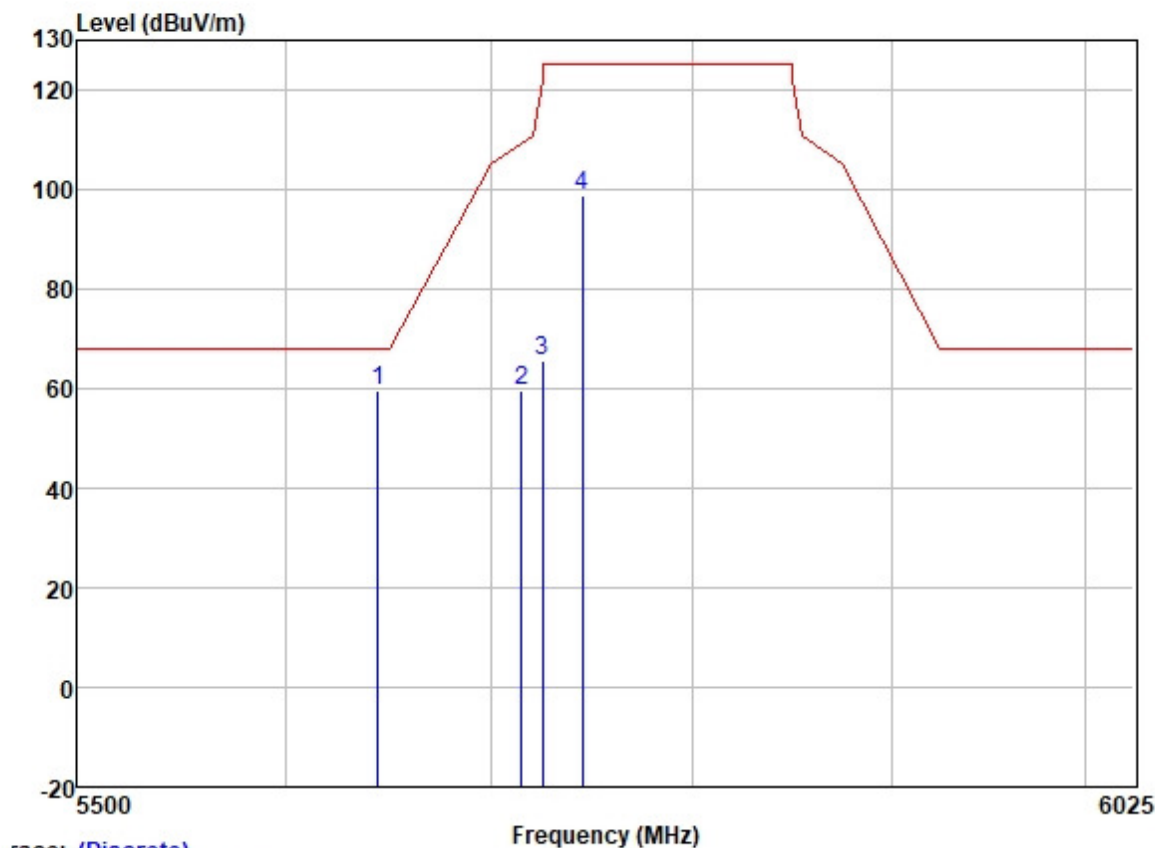
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Trace: (Discrete)

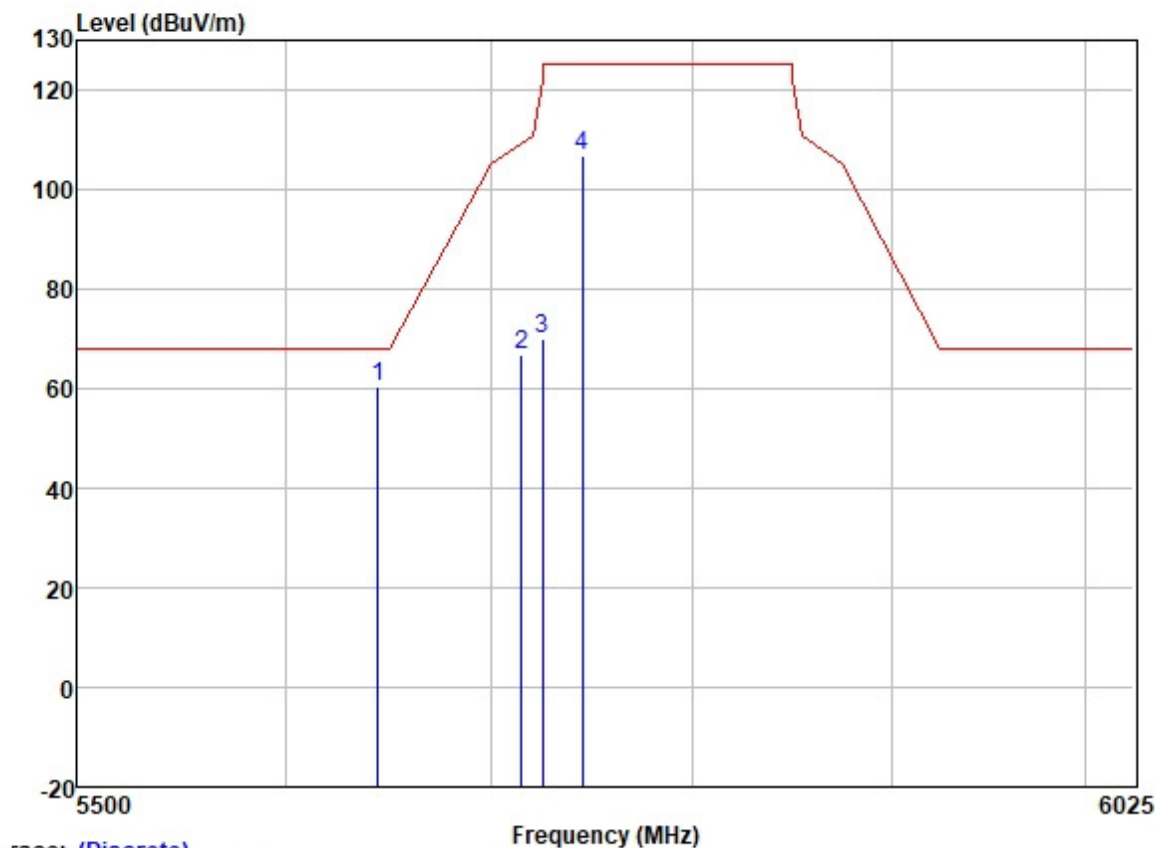
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	100.76	32.19	6.10	36.89	102.16	125.20	-23.04	VERTICAL	Peak
2	5850.000	59.83	32.25	6.00	36.90	61.18	122.20	-61.02	VERTICAL	Peak
3	5860.000	58.11	32.27	5.96	36.90	59.44	109.40	-49.96	VERTICAL	Peak
4	5928.138	58.82	32.34	6.00	36.90	60.26	68.20	-7.94	VERTICAL	Peak

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



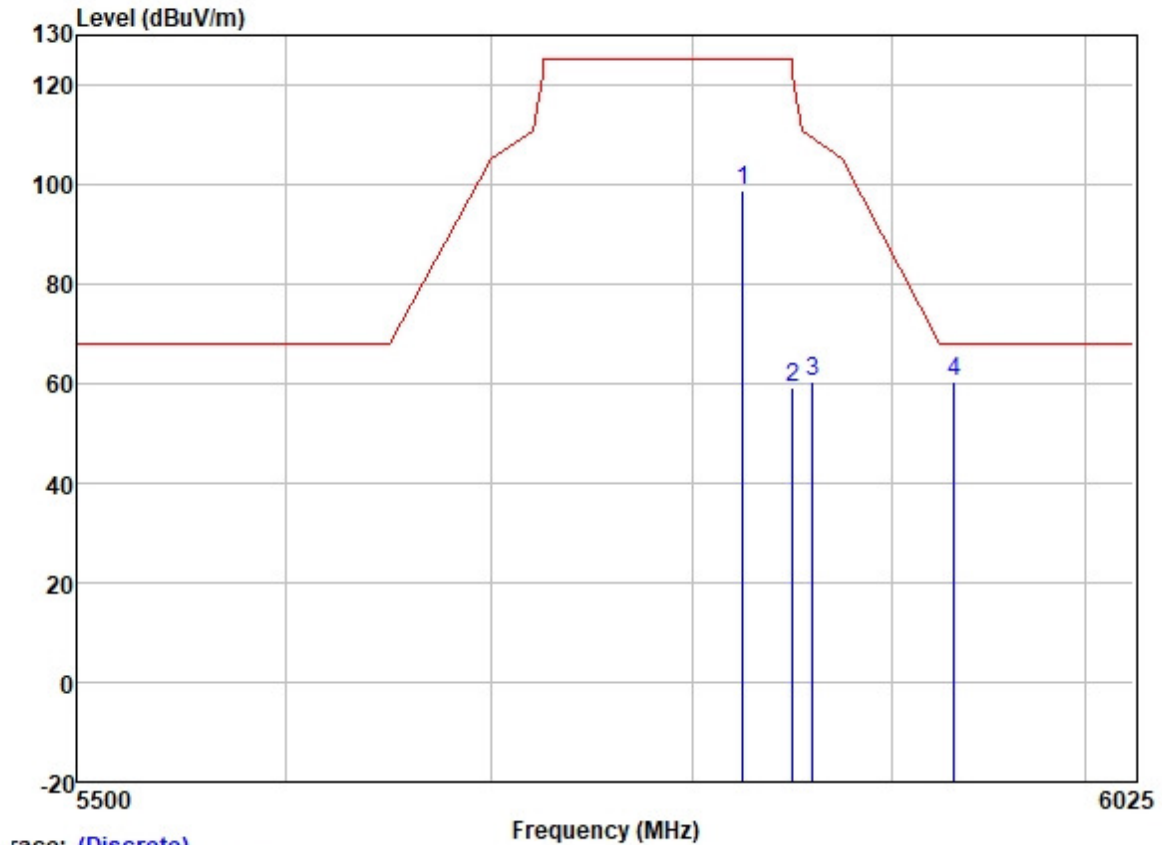
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5644.289	58.20	31.95	6.35	36.89	59.61	68.20	-8.59	HORIZONTAL	Peak
2	5715.000	57.99	32.04	6.33	36.89	59.47	109.40	-49.93	HORIZONTAL	Peak
3	5725.000	64.30	32.07	6.25	36.89	65.73	122.20	-56.47	HORIZONTAL	Peak
4	5745.000	97.46	32.10	6.20	36.89	98.87	125.20	-26.33	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5644.704	59.08	31.95	6.35	36.89	60.49	68.20	-7.71	VERTICAL	Peak
2	5715.000	65.34	32.04	6.33	36.89	66.82	109.40	-42.58	VERTICAL	Peak
3	5725.000	68.61	32.07	6.25	36.89	70.04	122.20	-52.16	VERTICAL	Peak
4	5745.000	105.45	32.10	6.20	36.89	106.86	125.20	-18.34	VERTICAL	Peak

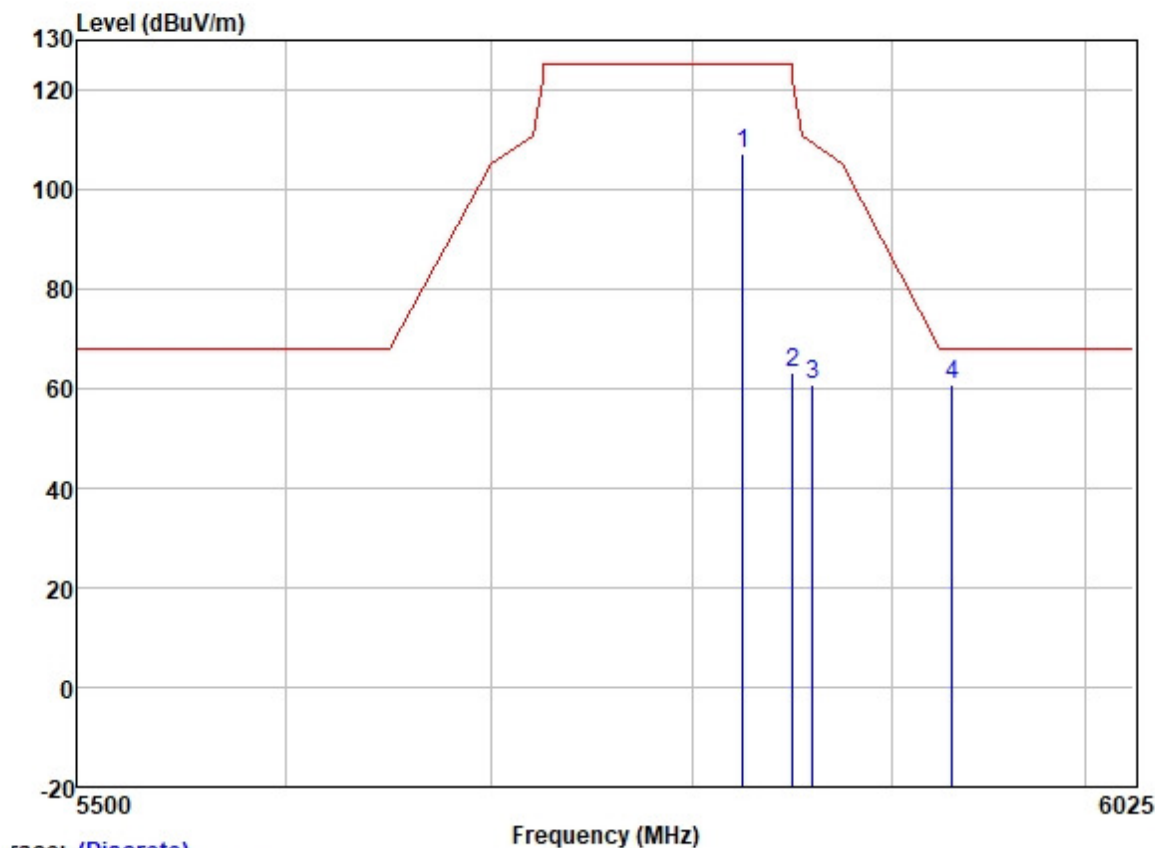
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

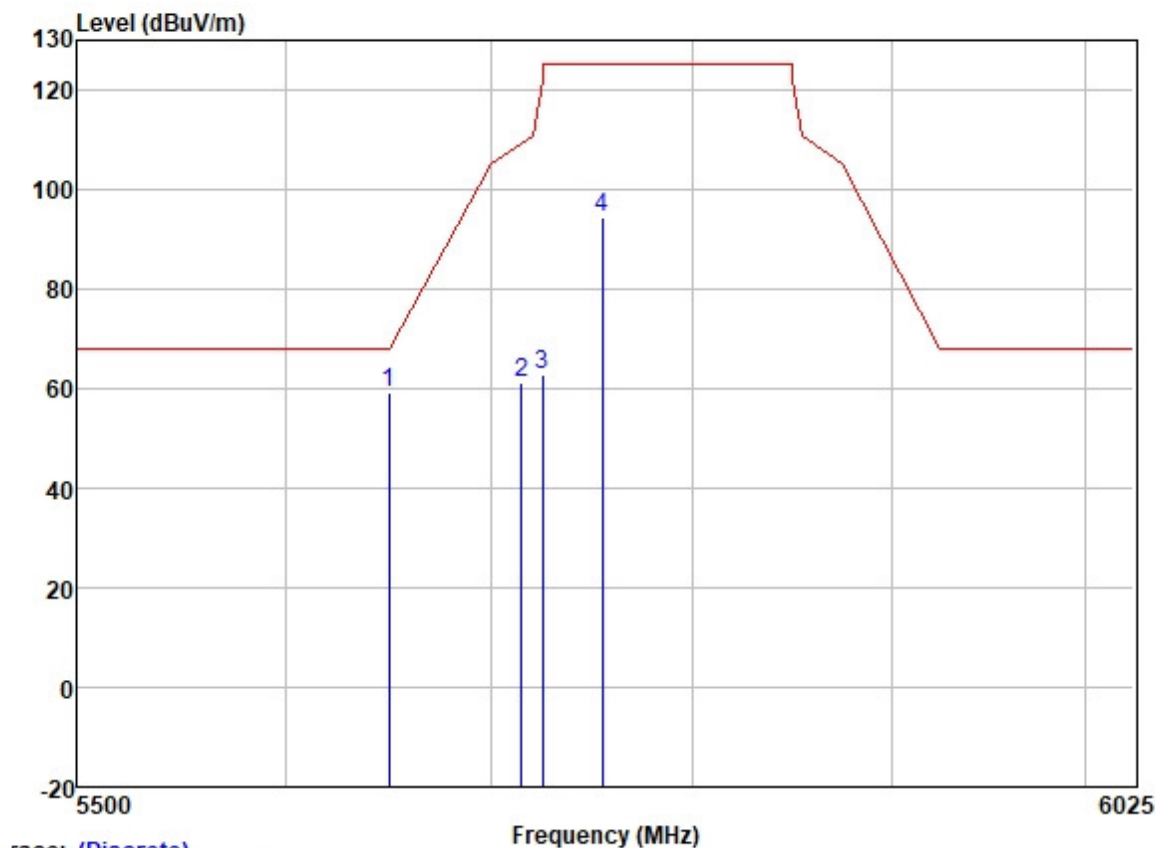
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5825.000	97.62	32.23	6.04	36.90	98.99	125.20	-26.21	HORIZONTAL Peak
2	5850.000	57.90	32.25	6.00	36.90	59.25	122.20	-62.95	HORIZONTAL Peak
3	5860.000	59.23	32.27	5.96	36.90	60.56	109.40	-48.84	HORIZONTAL Peak
4	5932.135	58.85	32.34	6.00	36.90	60.29	68.20	-7.91	HORIZONTAL Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



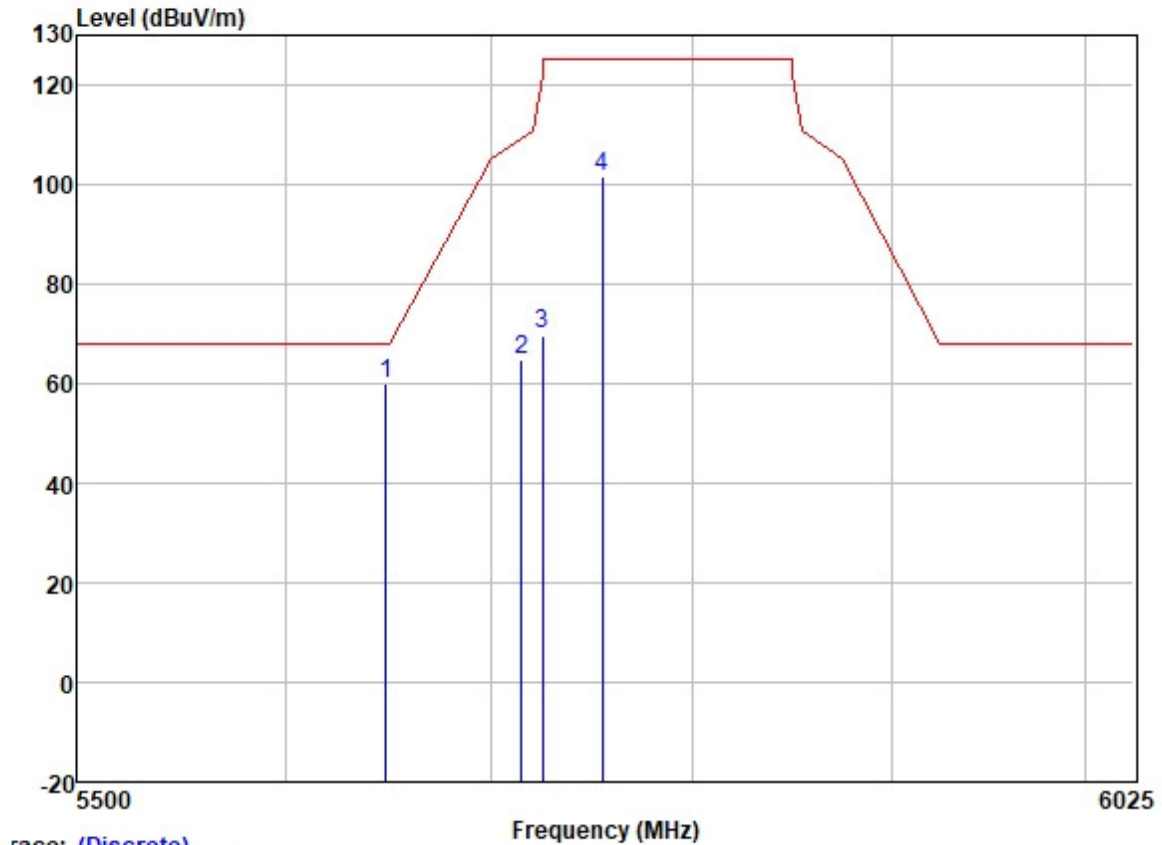
	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5825.000	106.01	32.23	6.04	36.90	107.38	125.20	-17.82	VERTICAL Peak
2	5850.000	61.78	32.25	6.00	36.90	63.13	122.20	-59.07	VERTICAL Peak
3	5860.000	59.43	32.27	5.96	36.90	60.76	109.40	-48.64	VERTICAL Peak
4	5931.352	59.19	32.34	6.00	36.90	60.63	68.20	-7.57	VERTICAL Peak

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



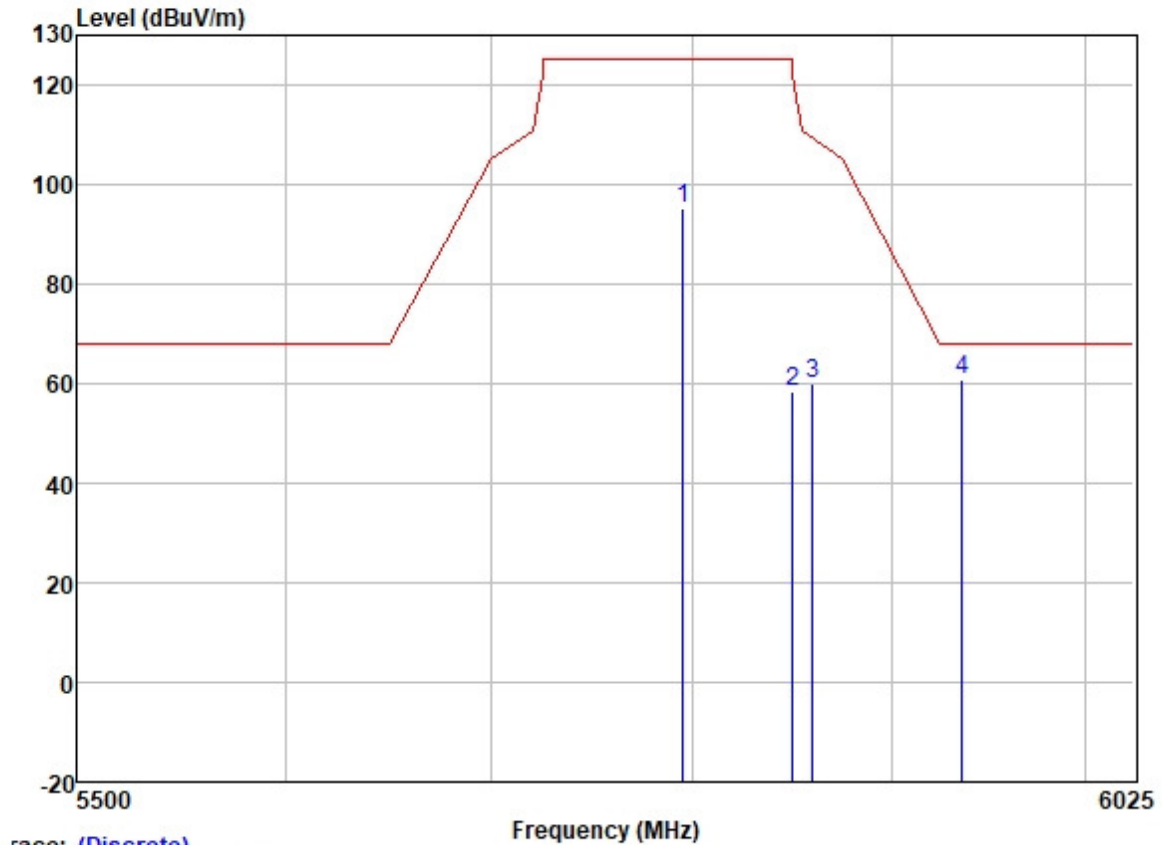
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.642	57.80	31.95	6.35	36.89	59.21	68.20	-8.99	HORIZONTAL	Peak
2	5715.000	59.54	32.04	6.33	36.89	61.02	109.40	-48.38	HORIZONTAL	Peak
3	5725.000	61.32	32.07	6.25	36.89	62.75	122.20	-59.45	HORIZONTAL	Peak
4	5755.000	93.06	32.10	6.20	36.89	94.47	125.20	-30.73	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; 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	5648.416	58.77	31.95	6.35	36.89	60.18	68.20	-8.02	VERTICAL	Peak
2	5715.000	63.41	32.04	6.33	36.89	64.89	109.40	-44.51	VERTICAL	Peak
3	5725.000	68.37	32.07	6.25	36.89	69.80	122.20	-52.40	VERTICAL	Peak
4	5755.000	99.99	32.10	6.20	36.89	101.40	125.20	-23.80	VERTICAL	Peak

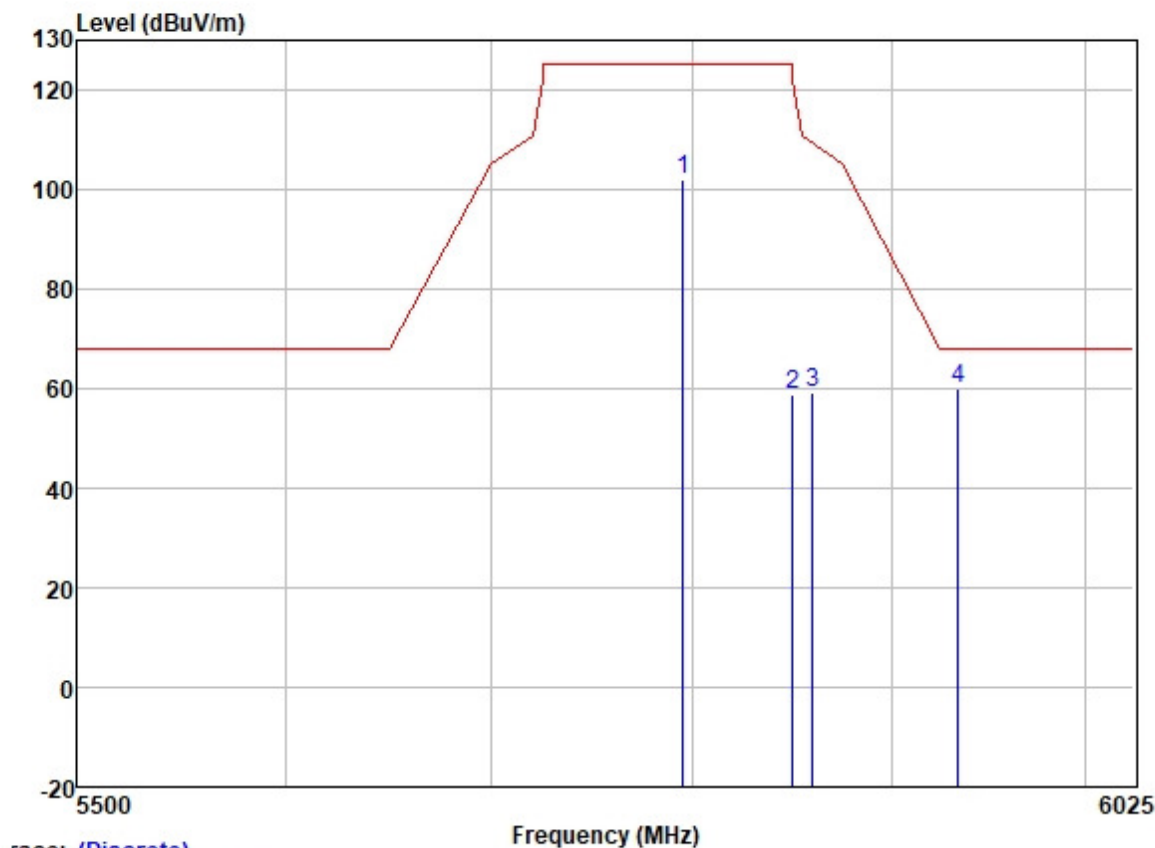
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (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	5795.000	93.65	32.19	6.10	36.89	95.05	125.20	-30.15	HORIZONTAL	Peak
2	5850.000	57.09	32.25	6.00	36.90	58.44	122.20	-63.76	HORIZONTAL	Peak
3	5860.000	58.72	32.27	5.96	36.90	60.05	109.40	-49.35	HORIZONTAL	Peak
4	5936.461	59.20	32.34	6.00	36.90	60.64	68.20	-7.56	HORIZONTAL	Peak

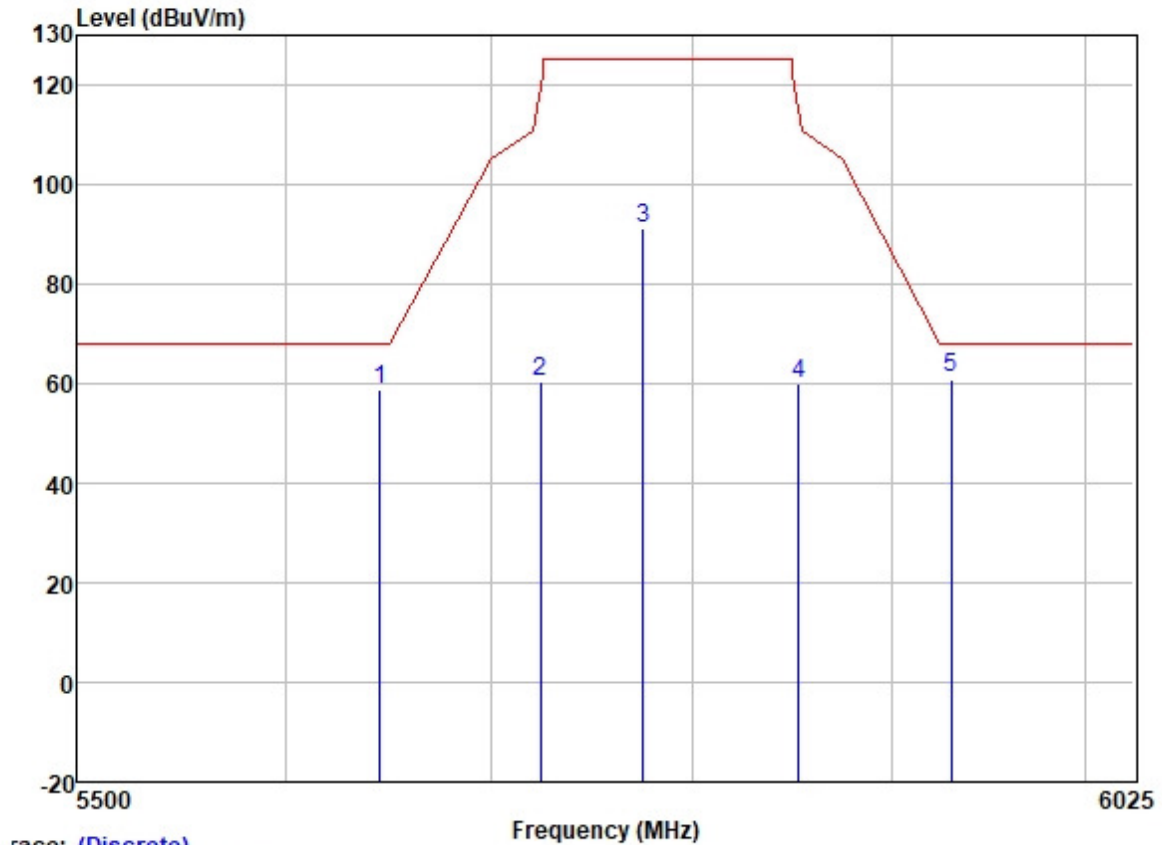
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5795.000	100.60	32.19	6.10	36.89	102.00	125.20	-23.20	VERTICAL Peak
2	5850.000	57.43	32.25	6.00	36.90	58.78	122.20	-63.42	VERTICAL Peak
3	5860.000	57.93	32.27	5.96	36.90	59.26	109.40	-50.14	VERTICAL Peak
4	5934.228	58.63	32.34	6.00	36.90	60.07	68.20	-8.13	VERTICAL Peak

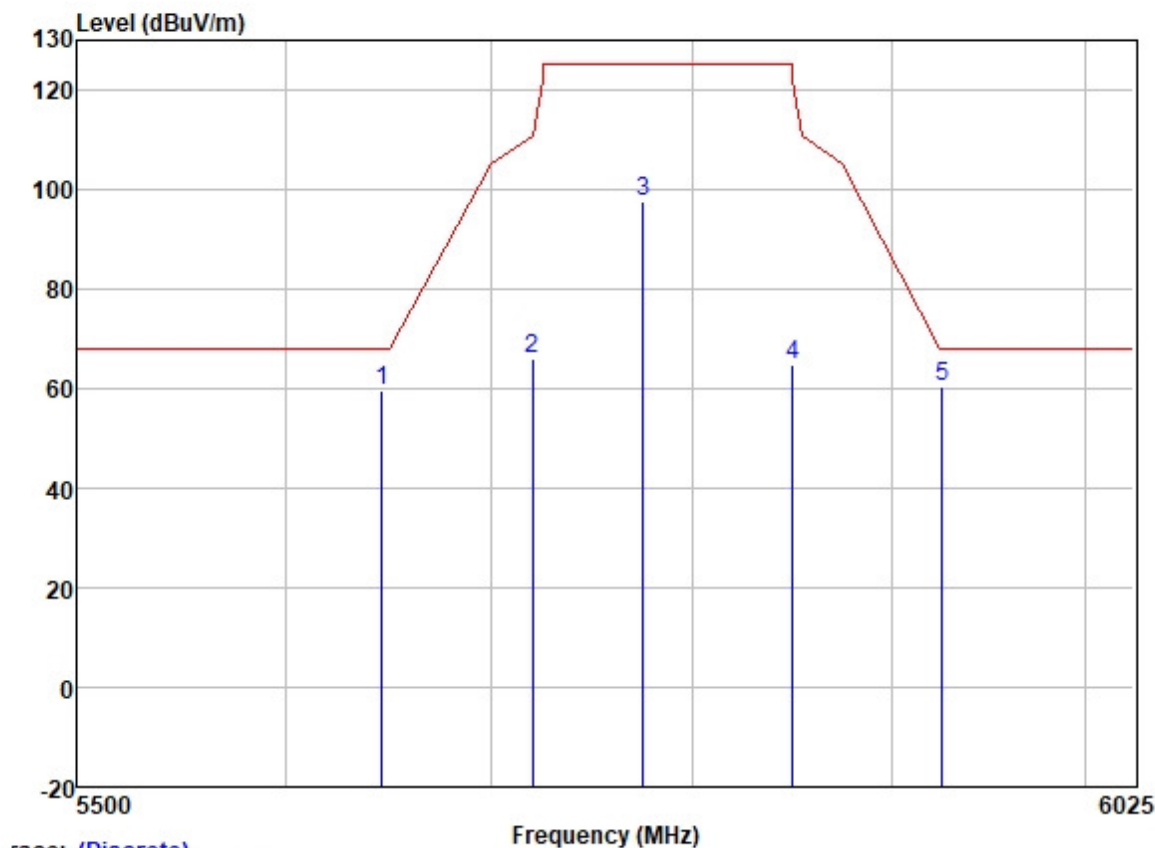
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Trace: (Discrete)

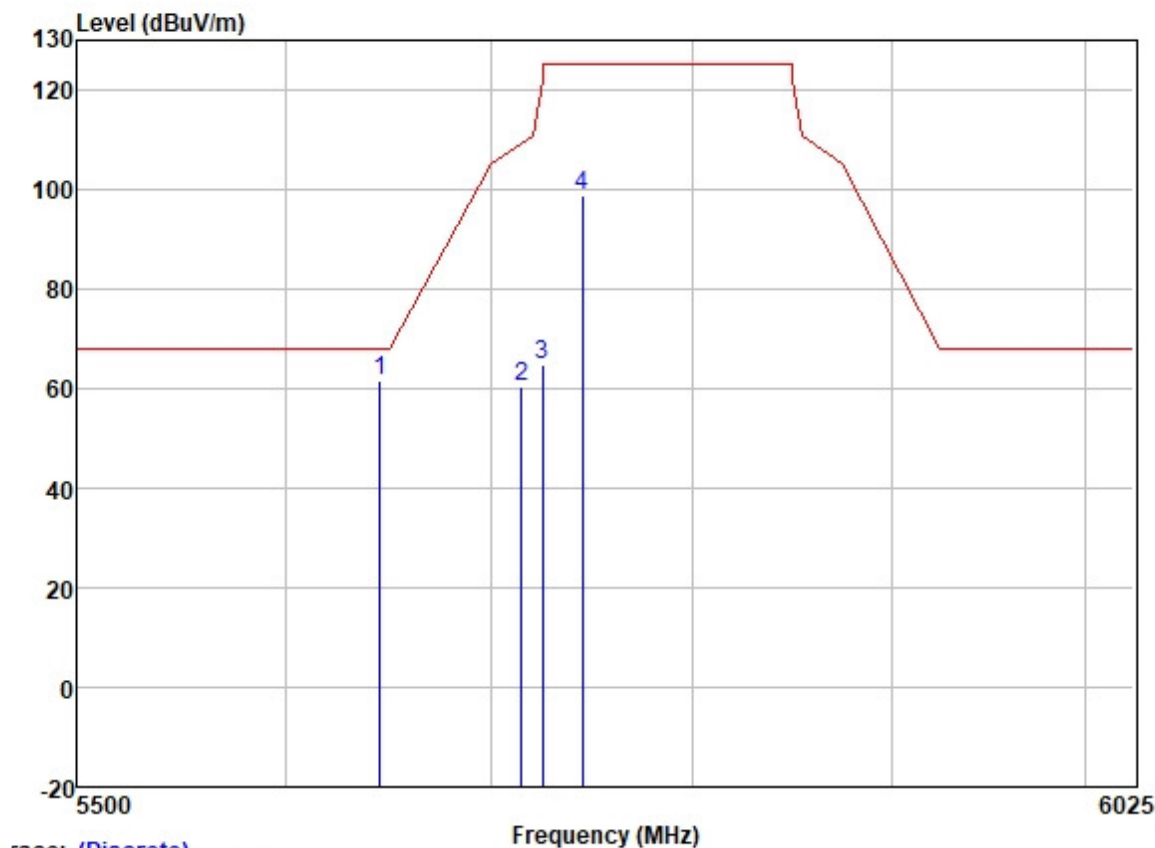
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5645.646	57.27	31.95	6.35	36.89	58.68	68.20	-9.52	HORIZONTAL	Peak
2	5724.390	58.90	32.07	6.25	36.89	60.33	120.81	-60.48	HORIZONTAL	Peak
3	5775.000	89.65	32.16	6.10	36.89	91.02	125.20	-34.18	HORIZONTAL	Peak
4	5853.349	58.79	32.25	6.00	36.90	60.14	114.56	-54.42	HORIZONTAL	Peak
5	5930.615	59.56	32.34	6.00	36.90	61.00	68.20	-7.20	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



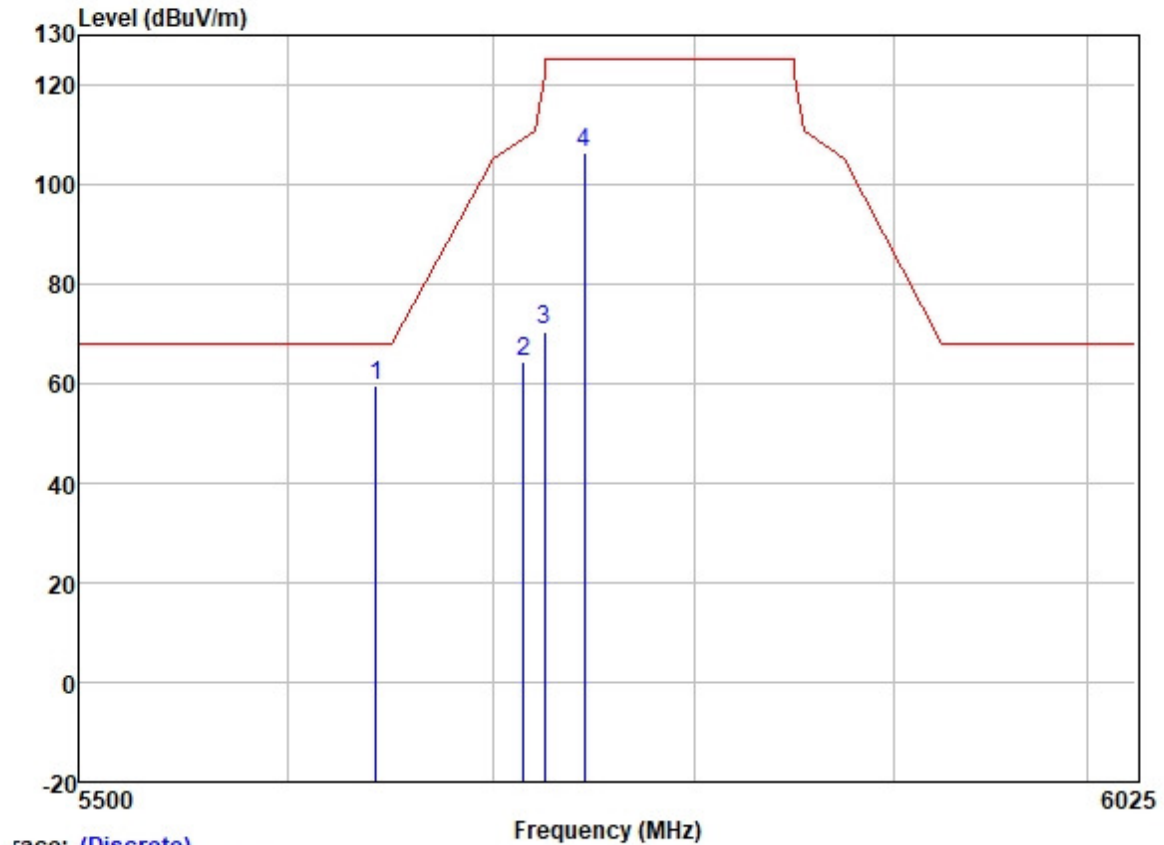
race: (Discrete)	Frequency (MHz)									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5646.241	58.07	31.95	6.35	36.89	59.48	68.20	-8.72	VERTICAL	Peak
2	5720.171	64.52	32.04	6.33	36.89	66.00	111.19	-45.19	VERTICAL	Peak
3	5775.000	96.32	32.16	6.10	36.89	97.69	125.20	-27.51	VERTICAL	Peak
4	5850.267	63.31	32.25	6.00	36.90	64.66	121.59	-56.93	VERTICAL	Peak
5	5926.244	58.88	32.34	6.00	36.90	60.32	68.20	-7.88	VERTICAL	Peak

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



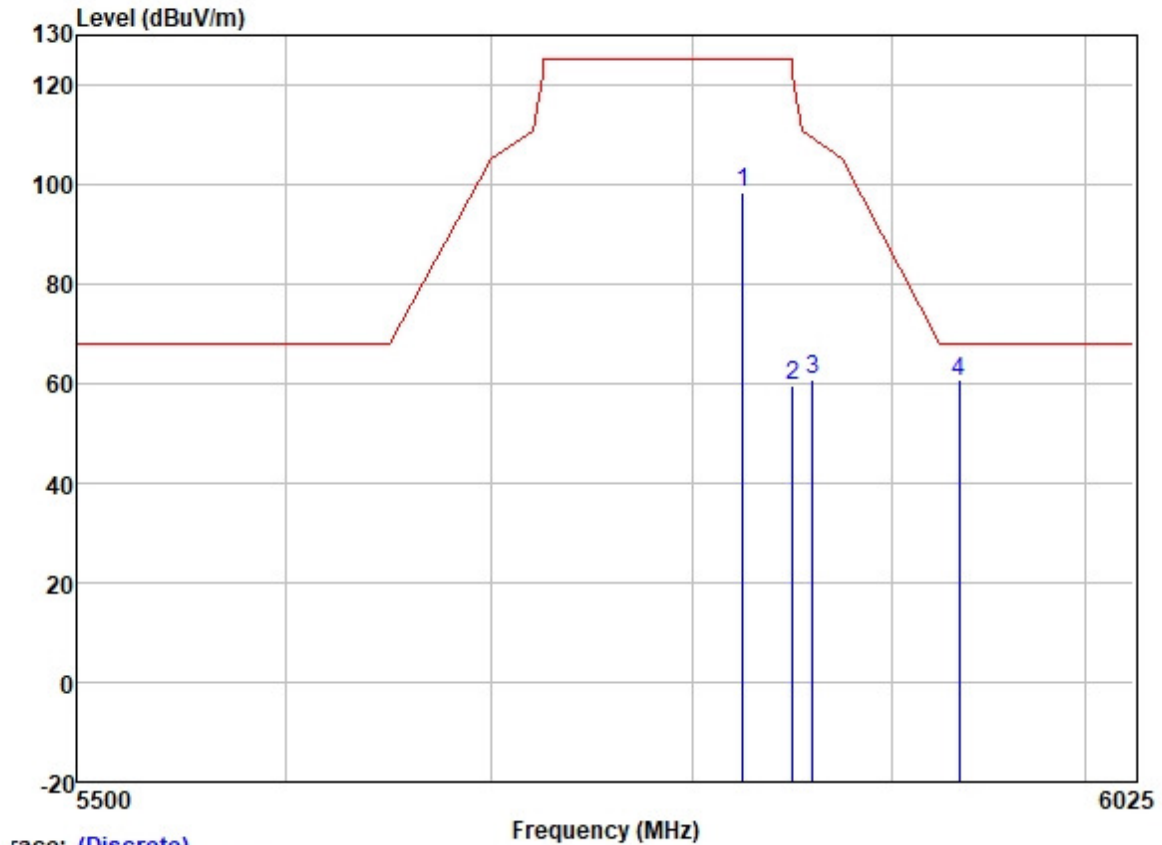
race: (Discrete)	Frequency (MHz)									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5645.673	60.07	31.95	6.35	36.89	61.48	68.20	-6.72	HORIZONTAL	Peak
2	5715.000	59.06	32.04	6.33	36.89	60.54	109.40	-48.86	HORIZONTAL	Peak
3	5725.000	63.23	32.07	6.25	36.89	64.66	122.20	-57.54	HORIZONTAL	Peak
4	5745.000	97.53	32.10	6.20	36.89	98.94	125.20	-26.26	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation: 802.11a(Full RU0); Bandwidth: 20MHz; Channel: Low



	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	5642.628	58.28	31.95	6.35	36.89	59.69	68.20	-8.51	VERTICAL Peak
2	5715.000	62.92	32.04	6.33	36.89	64.40	109.40	-45.00	VERTICAL Peak
3	5725.000	69.17	32.07	6.25	36.89	70.60	122.20	-51.60	VERTICAL Peak
4	5745.000	105.09	32.10	6.20	36.89	106.50	125.20	-18.70	VERTICAL Peak

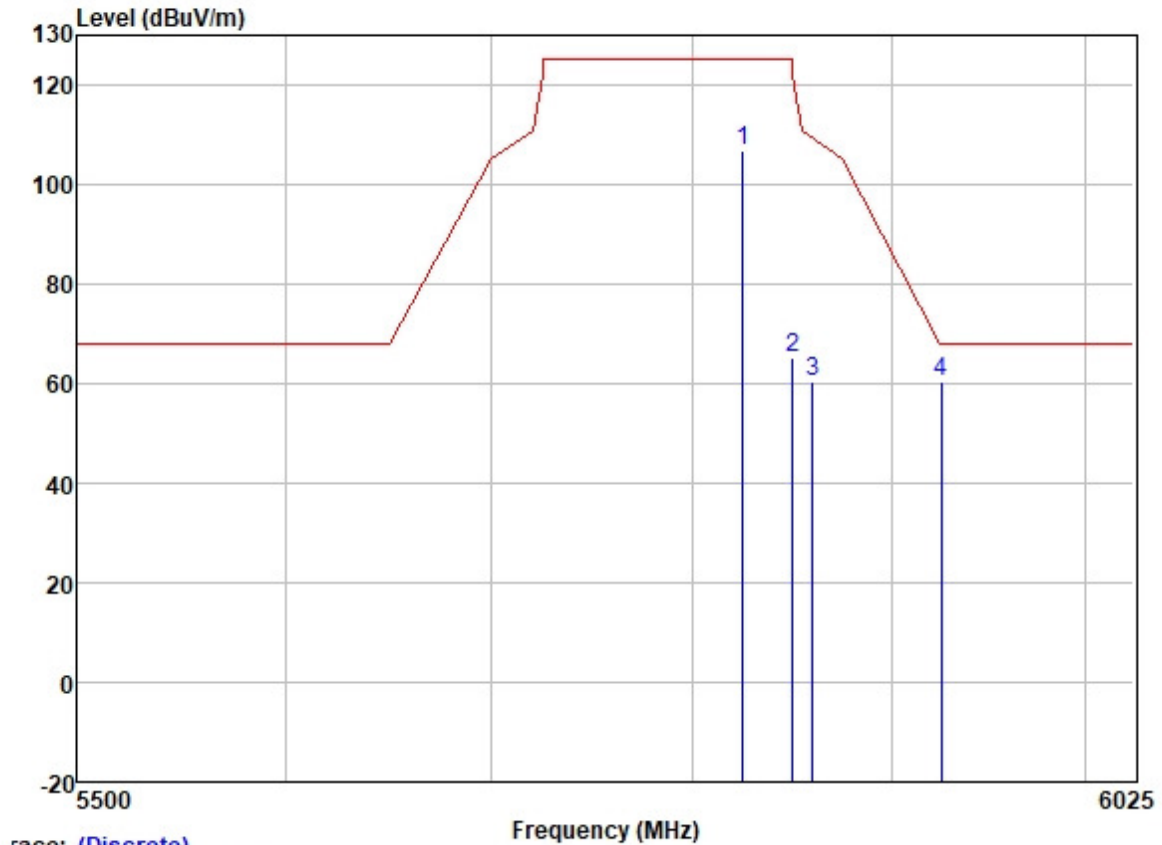
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Trace: (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	5825.000	97.22	32.23	6.04	36.90	98.59	125.20	-26.61	HORIZONTAL	Peak
2	5850.000	58.14	32.25	6.00	36.90	59.49	122.20	-62.71	HORIZONTAL	Peak
3	5860.000	59.37	32.27	5.96	36.90	60.70	109.40	-48.70	HORIZONTAL	Peak
4	5934.957	59.16	32.34	6.00	36.90	60.60	68.20	-7.60	HORIZONTAL	Peak

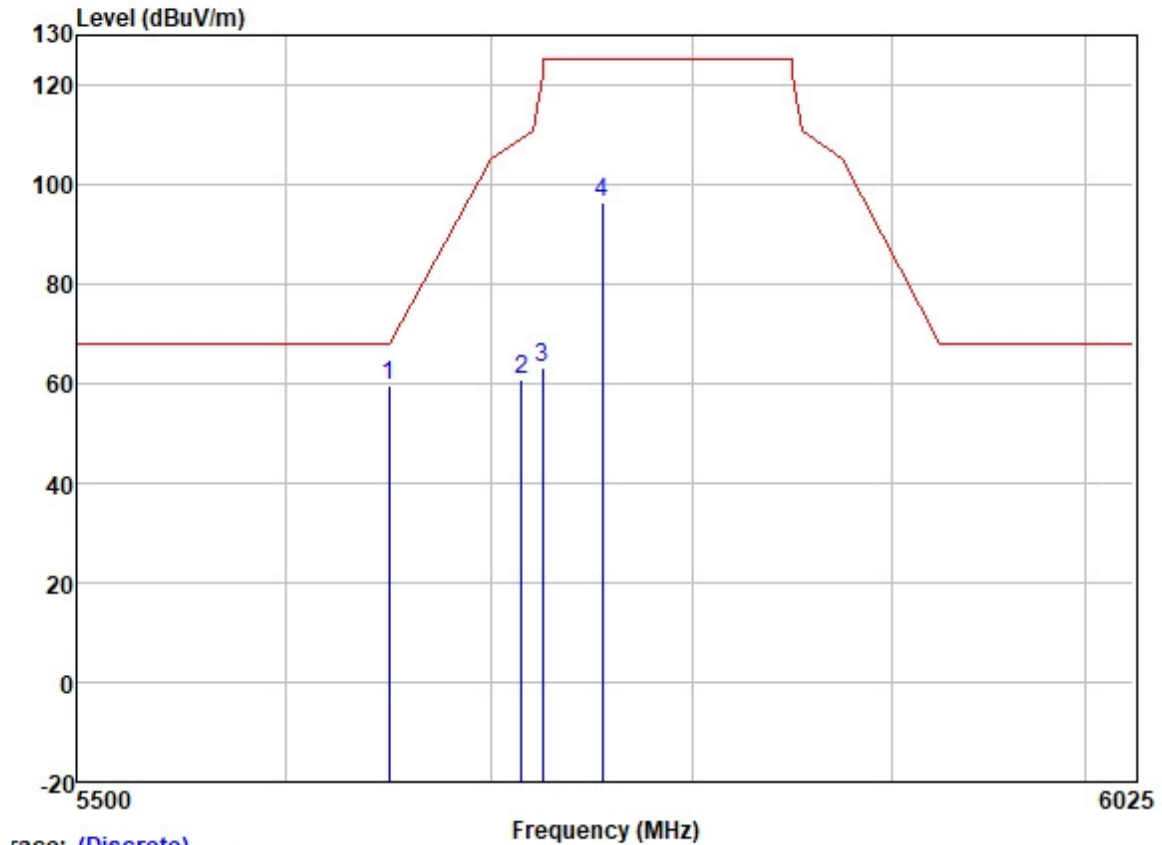
Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	105.33	32.23	6.04	36.90	106.70	125.20	-18.50	VERTICAL Peak
2	5850.000	63.93	32.25	6.00	36.90	65.28	122.20	-56.92	VERTICAL Peak
3	5860.000	58.97	32.27	5.96	36.90	60.30	109.40	-49.10	VERTICAL Peak
4	5925.713	58.88	32.34	6.00	36.90	60.32	68.20	-7.88	VERTICAL Peak

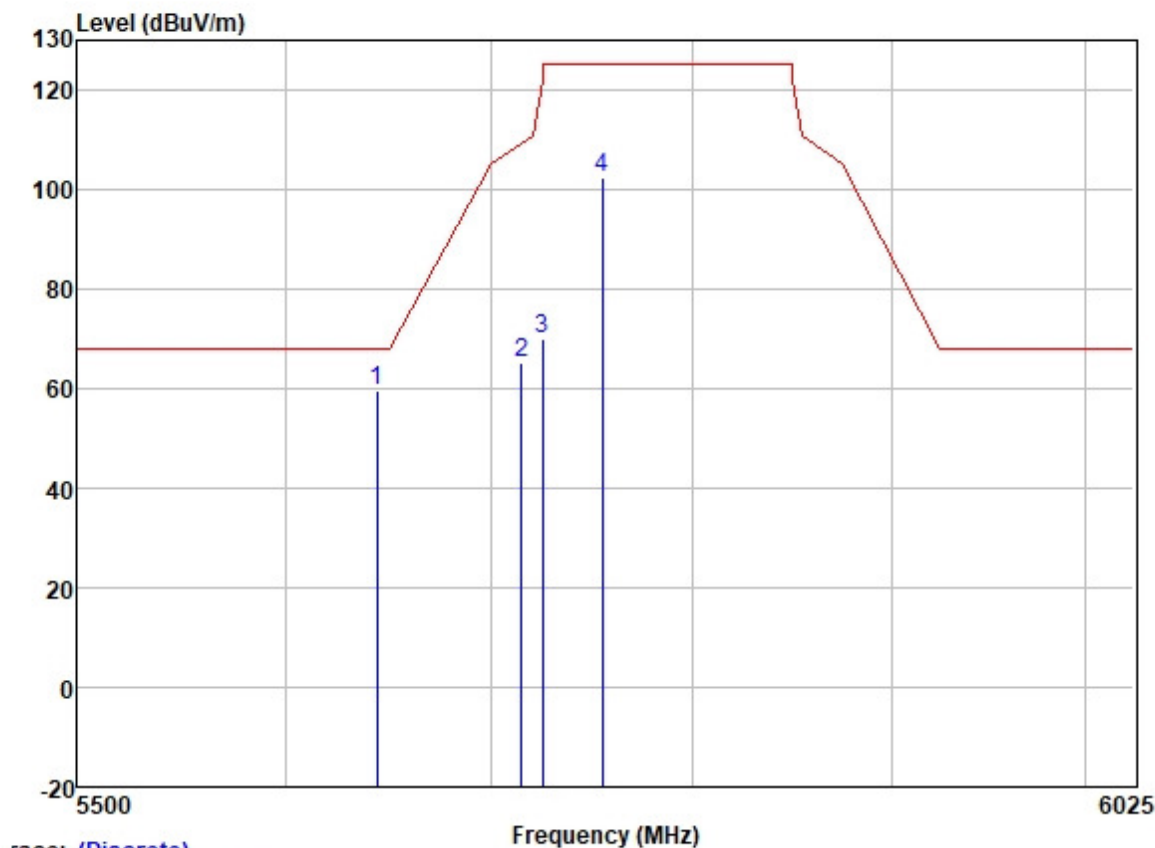
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

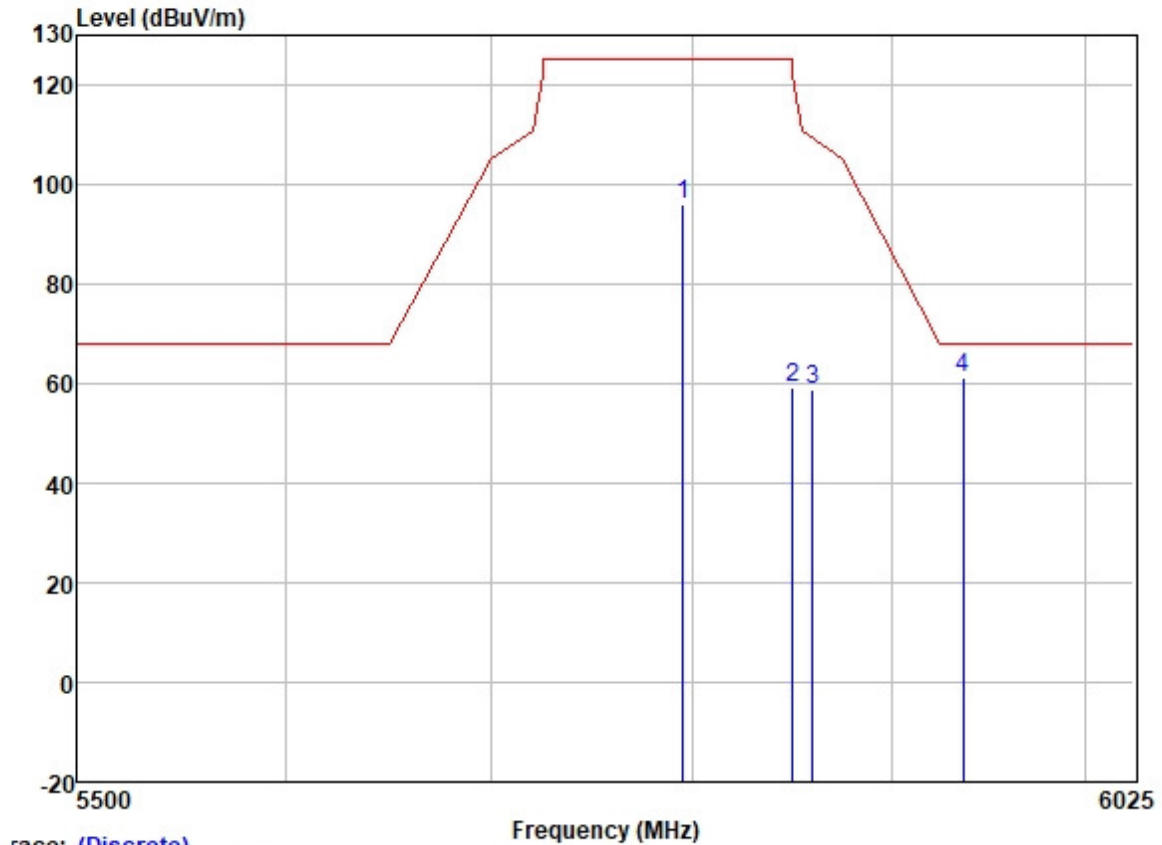
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.948	58.31	31.95	6.35	36.89	59.72	68.20	-8.48	HORIZONTAL	Peak
2	5715.000	59.45	32.04	6.33	36.89	60.93	109.40	-48.47	HORIZONTAL	Peak
3	5725.000	61.83	32.07	6.25	36.89	63.26	122.20	-58.94	HORIZONTAL	Peak
4	5755.000	94.99	32.10	6.20	36.89	96.40	125.20	-28.80	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Race: (Discrete)	Frequency (MHz)									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5643.977	58.24	31.95	6.35	36.89	59.65	68.20	-8.55	VERTICAL	Peak
2	5715.000	63.85	32.04	6.33	36.89	65.33	109.40	-44.07	VERTICAL	Peak
3	5725.000	68.48	32.07	6.25	36.89	69.91	122.20	-52.29	VERTICAL	Peak
4	5755.000	101.17	32.10	6.20	36.89	102.58	125.20	-22.62	VERTICAL	Peak

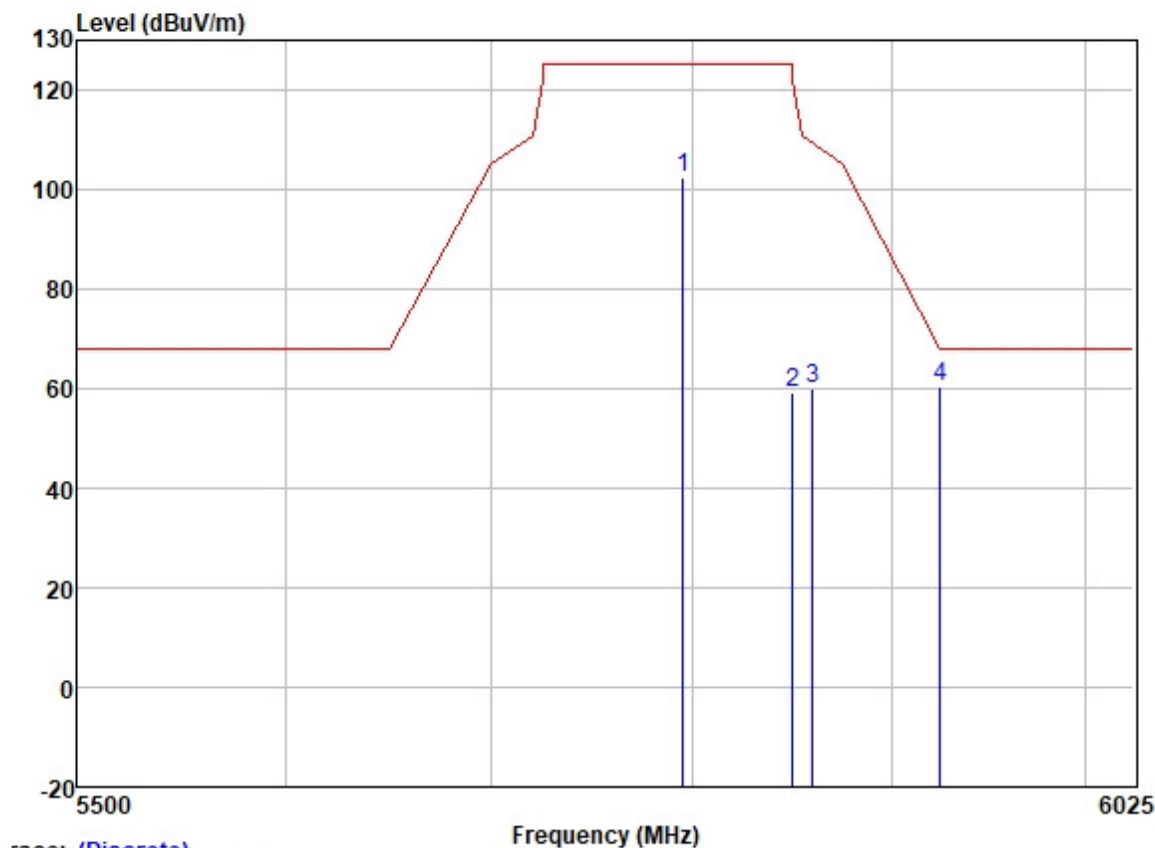
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



Trace: (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	5795.000	94.47	32.19	6.10	36.89	95.87	125.20	-29.33	HORIZONTAL	Peak
2	5850.000	58.00	32.25	6.00	36.90	59.35	122.20	-62.85	HORIZONTAL	Peak
3	5860.000	57.59	32.27	5.96	36.90	58.92	109.40	-50.48	HORIZONTAL	Peak
4	5936.868	59.59	32.34	6.00	36.90	61.03	68.20	-7.17	HORIZONTAL	Peak

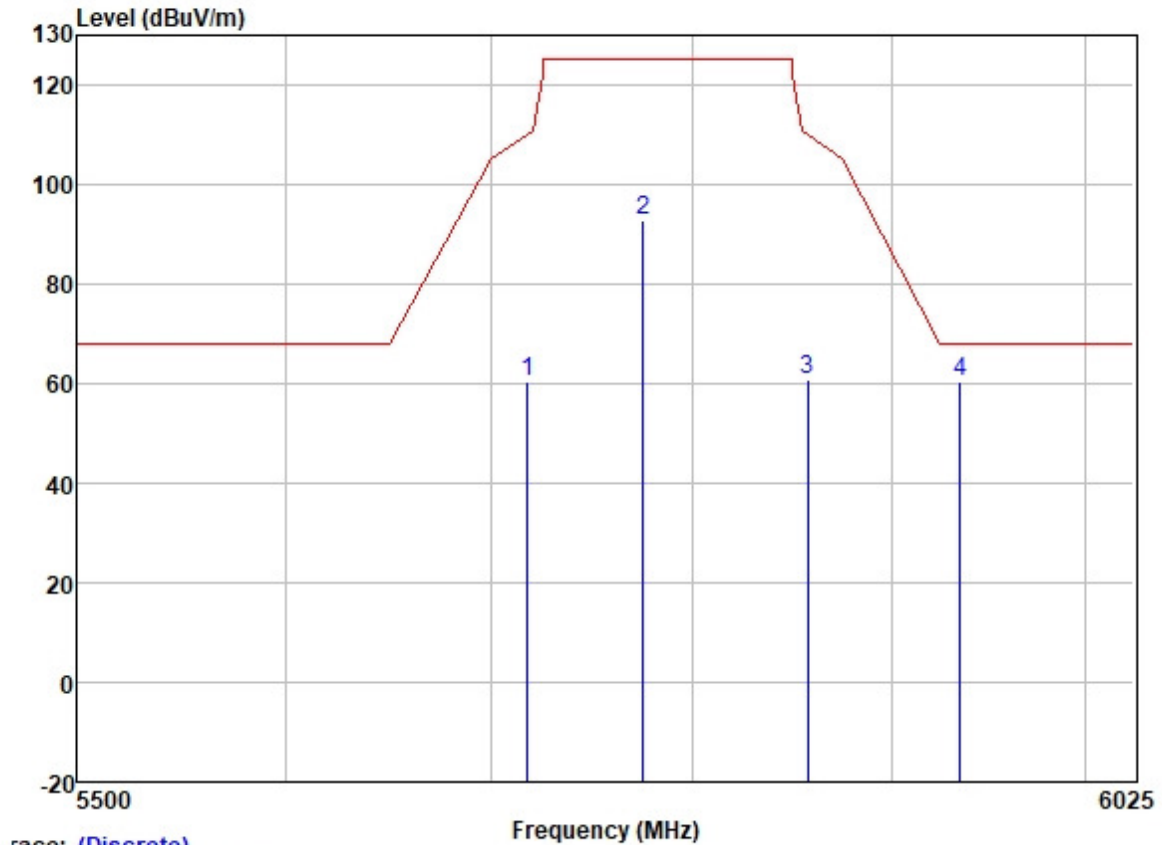
Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



Trace: (Discrete)

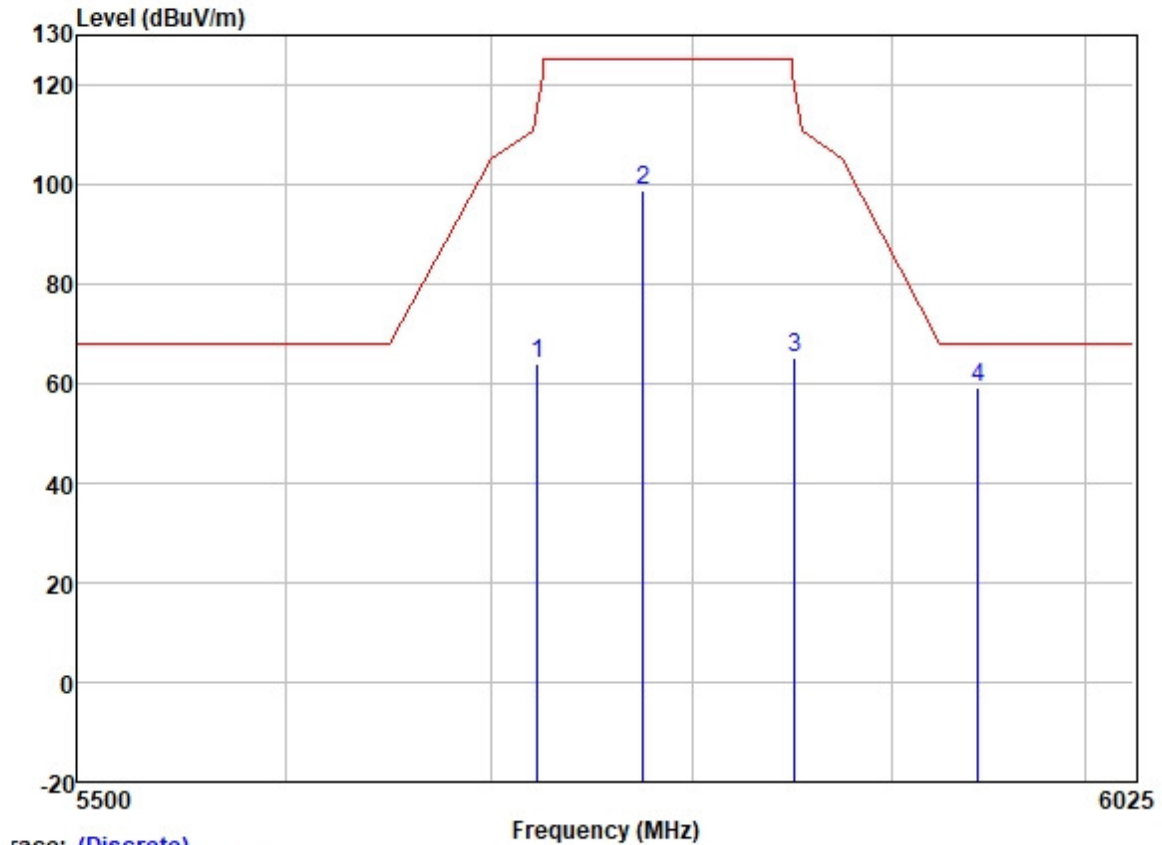
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5795.000	101.13	32.19	6.10	36.89	102.53	125.20	-22.67	VERTICAL Peak
2	5850.000	57.72	32.25	6.00	36.90	59.07	122.20	-63.13	VERTICAL Peak
3	5860.000	58.52	32.27	5.96	36.90	59.85	109.40	-49.55	VERTICAL Peak
4	5925.096	58.81	32.34	6.00	36.90	60.25	68.20	-7.95	VERTICAL Peak

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; 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	5717.761	58.85	32.04	6.33	36.89	60.33	110.17	-49.84	HORIZONTAL	Peak
2	5775.000	91.24	32.16	6.10	36.89	92.61	125.20	-32.59	HORIZONTAL	Peak
3	5857.666	59.30	32.27	5.96	36.90	60.63	110.05	-49.42	HORIZONTAL	Peak
4	5935.302	58.79	32.34	6.00	36.90	60.23	68.20	-7.97	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 80MHz; Channel: middle



	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5722.582	62.42	32.07	6.25	36.89	63.85	116.69	-52.84	VERTICAL Peak
2	5775.000	97.61	32.16	6.10	36.89	98.98	125.20	-26.22	VERTICAL Peak
3	5850.883	63.72	32.25	6.00	36.90	65.07	120.19	-55.12	VERTICAL Peak
4	5944.374	57.81	32.36	6.05	36.90	59.32	68.20	-8.88	VERTICAL Peak

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2108020829AT



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix _ Photographs of EUT Constructional Details for GZCR2108020829AT



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10 Appendix

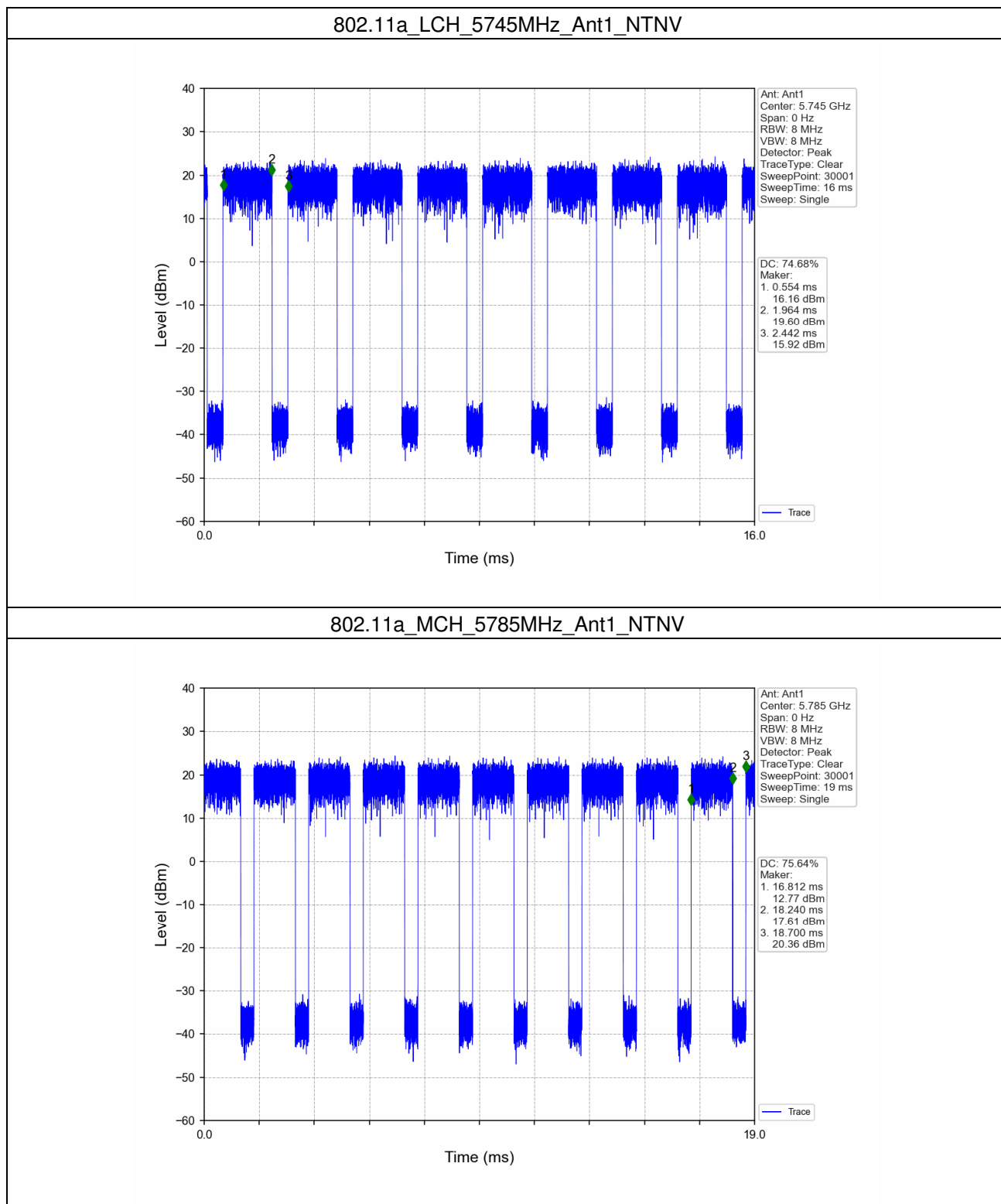
1. Duty Cycle

1.1 Ant1

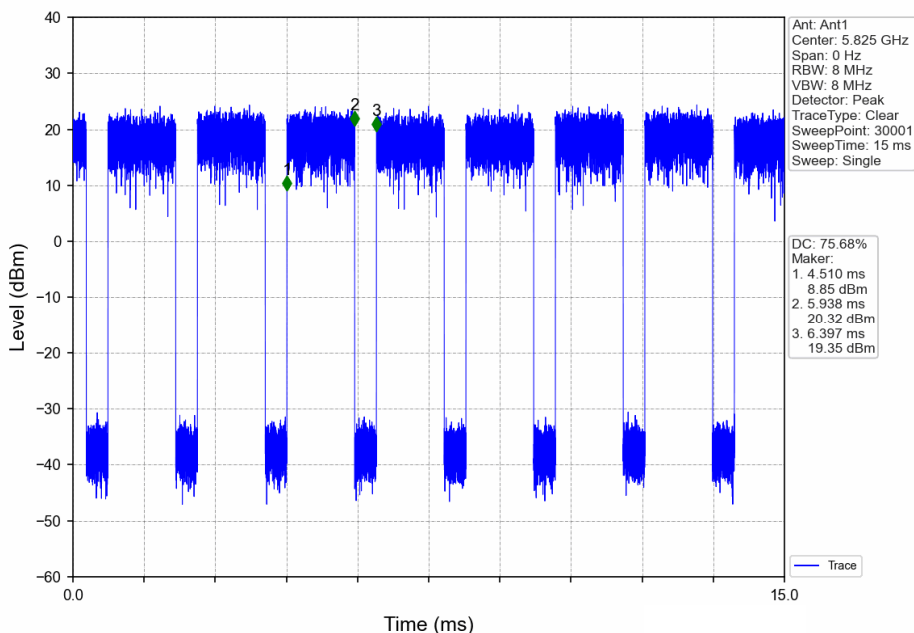
1.1.1 Test Result

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	/	/	1.41	1.89	74.68	1.27	0.09
		5785	/	/	1.43	1.89	75.64	1.21	0.08
		5825	/	/	1.43	1.89	75.68	1.21	0.06
802.11n (HT20)	MIMO	5745	/	/	0.69	0.79	87.48	0.58	0.03
		5785	/	/	0.69	0.92	75.03	1.25	0.03
		5825	/	/	0.69	0.92	75.14	1.24	0.01
802.11n (HT40)	MIMO	5755	/	/	0.36	0.46	78.46	1.05	0.07
		5795	/	/	0.35	0.46	77.36	1.11	0.04
802.11ac (VHT20)	MIMO	5745	/	/	0.15	0.25	60.96	2.15	0.08
		5785	/	/	0.15	0.25	58.96	2.29	0.10
		5825	/	/	0.15	0.25	60.96	2.15	0.06
802.11ac (VHT40)	MIMO	5755	/	/	0.10	0.20	51.26	2.90	0.10
		5795	/	/	0.10	0.20	50.75	2.95	0.03
802.11ac (VHT80)	MIMO	5775	/	/	0.08	0.18	42.08	3.76	0.31
802.11ax (HEW20)	MIMO	5745	RU242	Left	0.14	0.24	57.96	2.37	0.12
		5785	RU242	Left	0.15	0.24	60.00	2.22	0.07
		5825	RU242	Left	0.15	0.25	60.16	2.21	0.04
802.11ax (HEW40)	MIMO	5755	RU484	Left	0.10	0.20	48.78	3.12	0.21
		5795	RU484	Left	0.10	0.20	49.27	3.07	0.16
802.11ax (HEW80)	MIMO	5775	RU996	Left	0.08	0.18	46.15	3.36	0.05

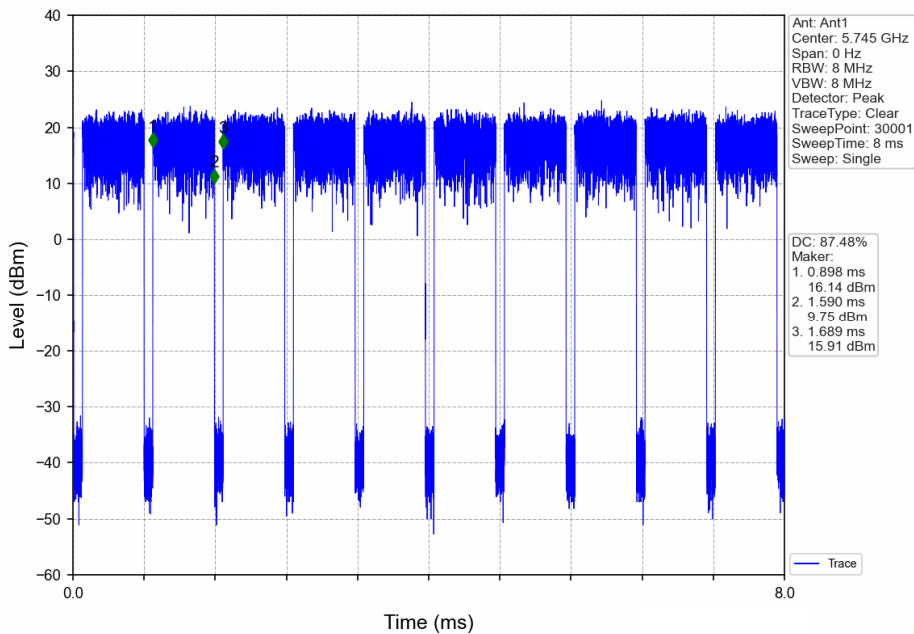
1.1.2 Test Graph



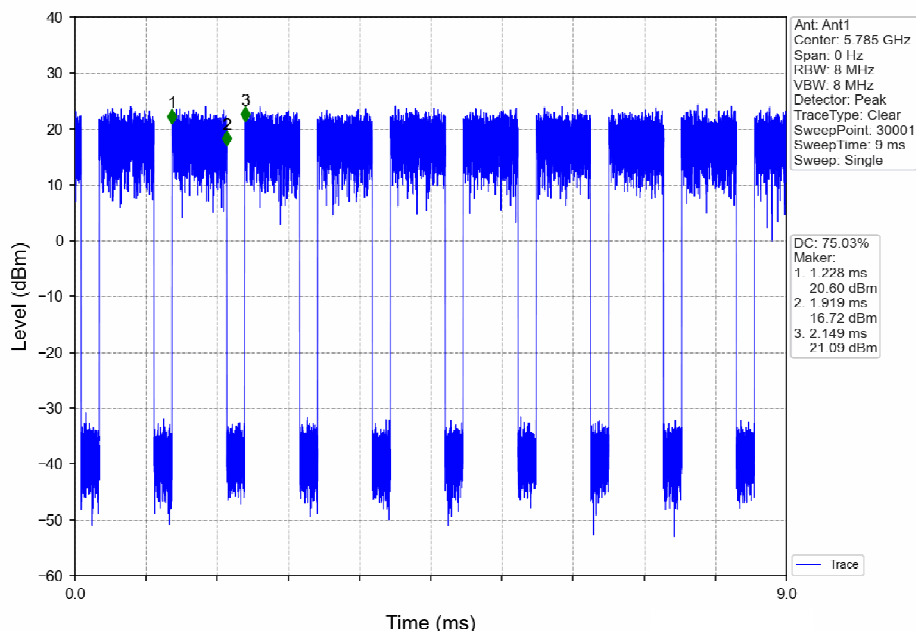
802.11a_HCH_5825MHz_Ant1_NTNV



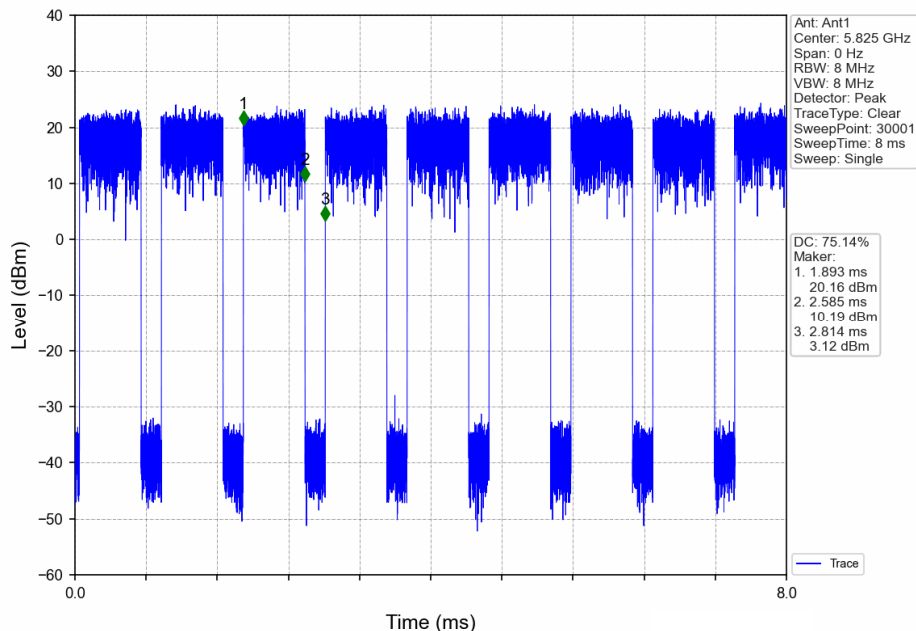
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

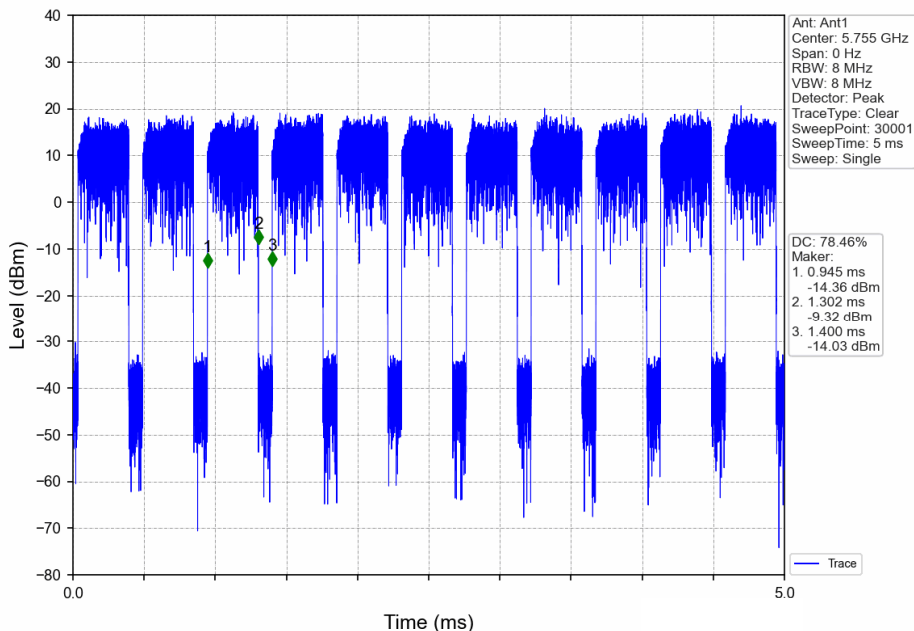


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

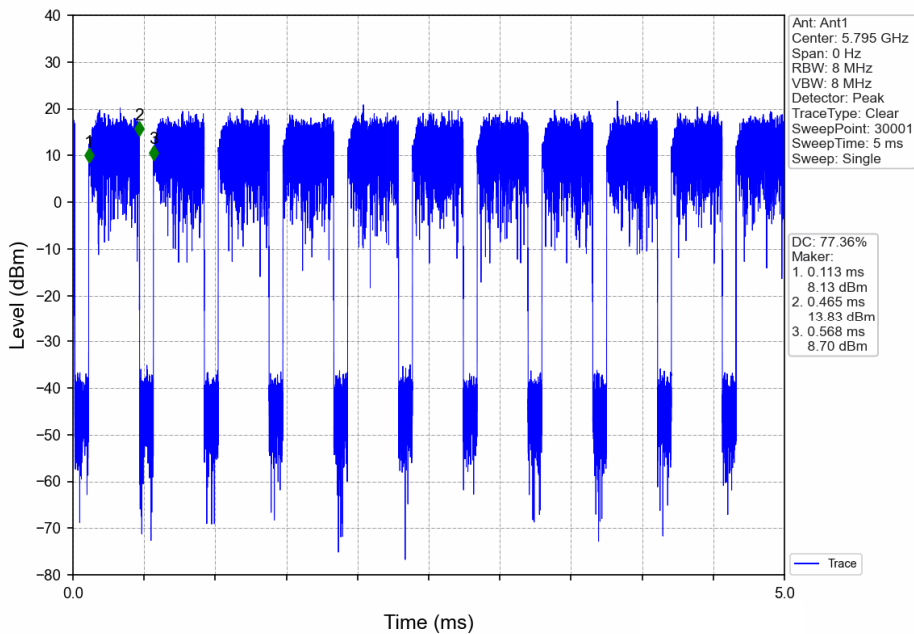


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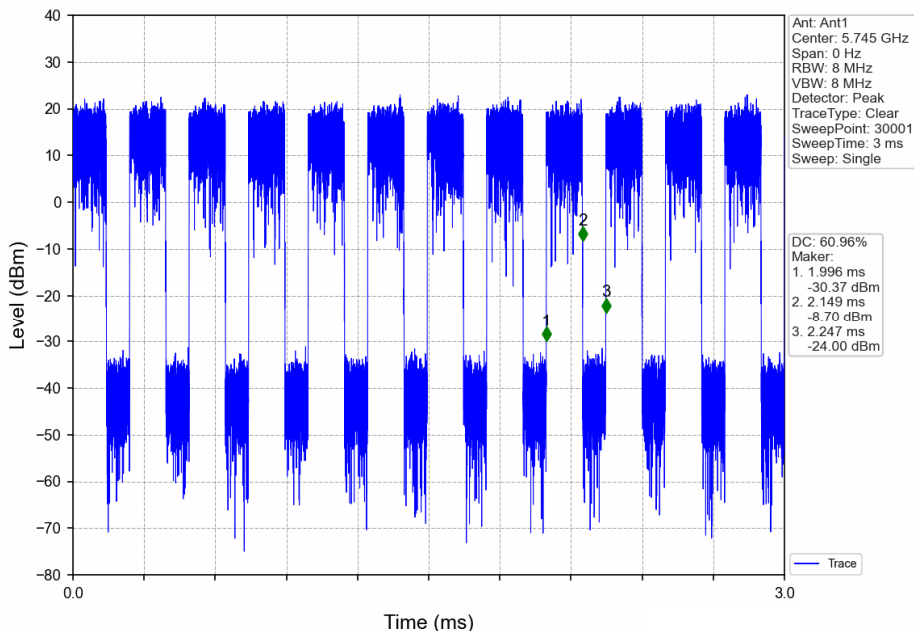
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



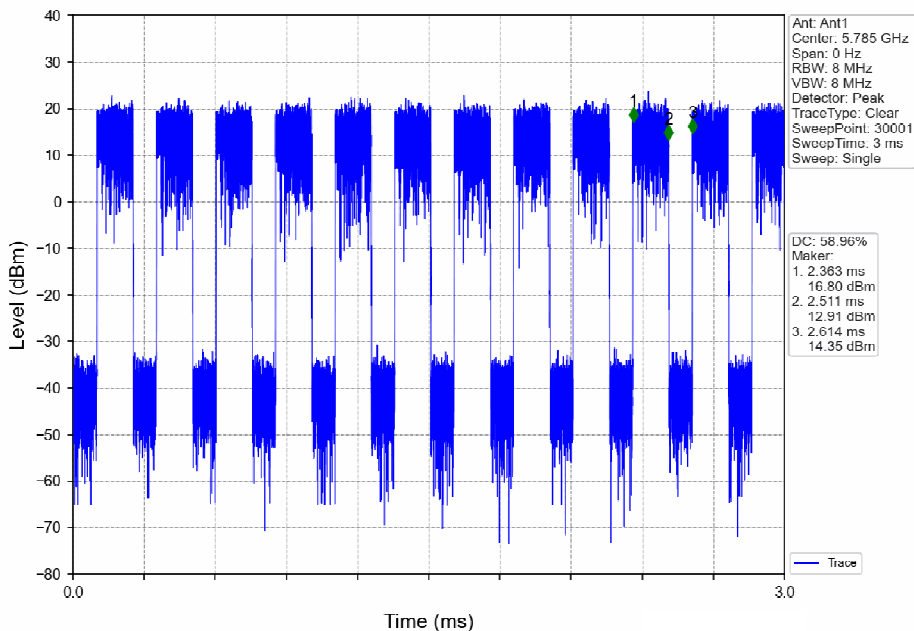
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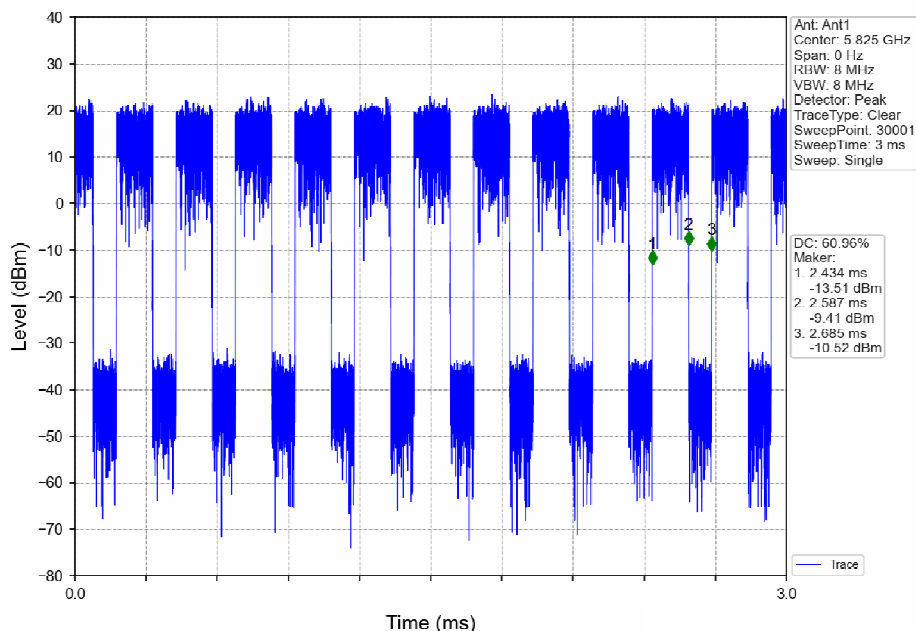
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



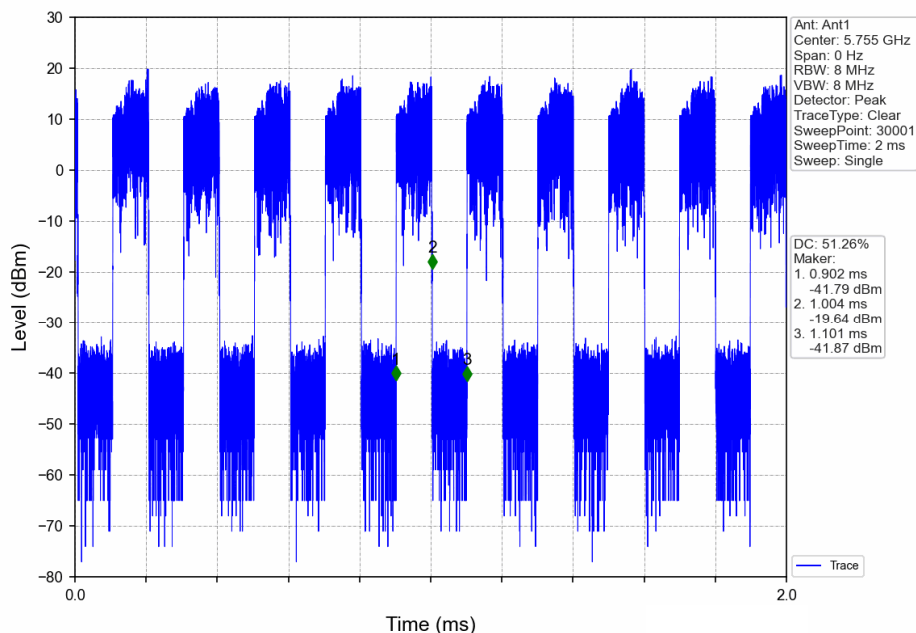
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



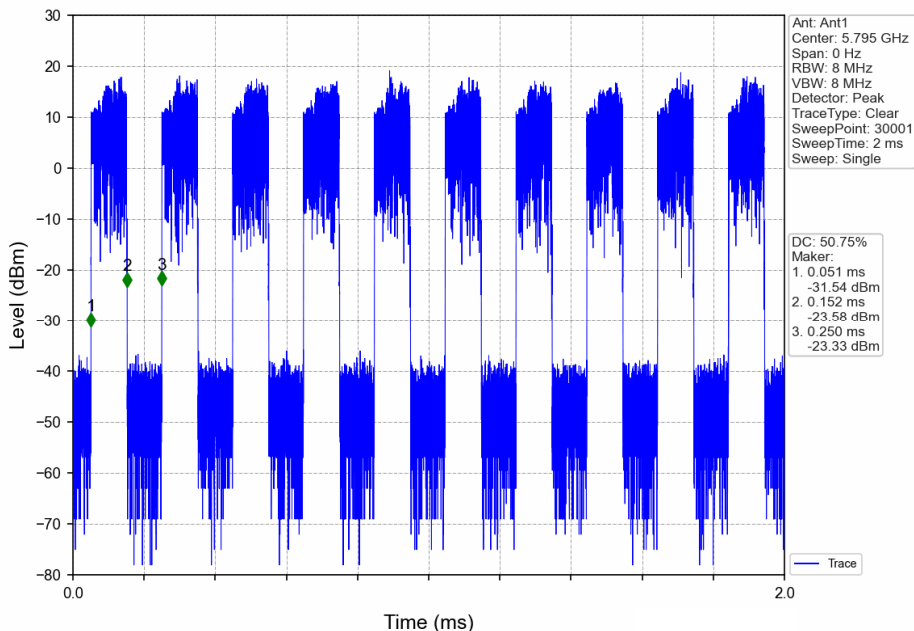
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



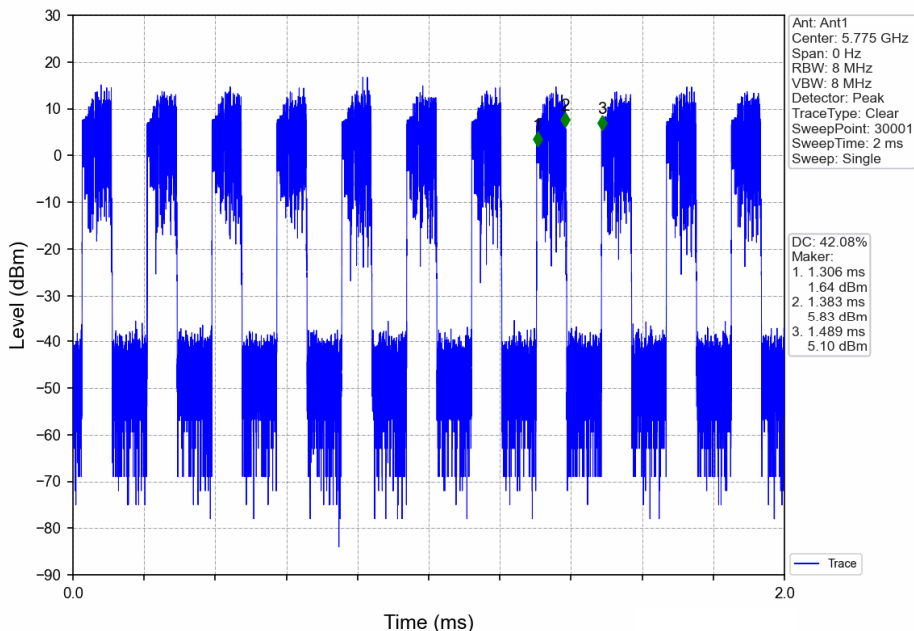
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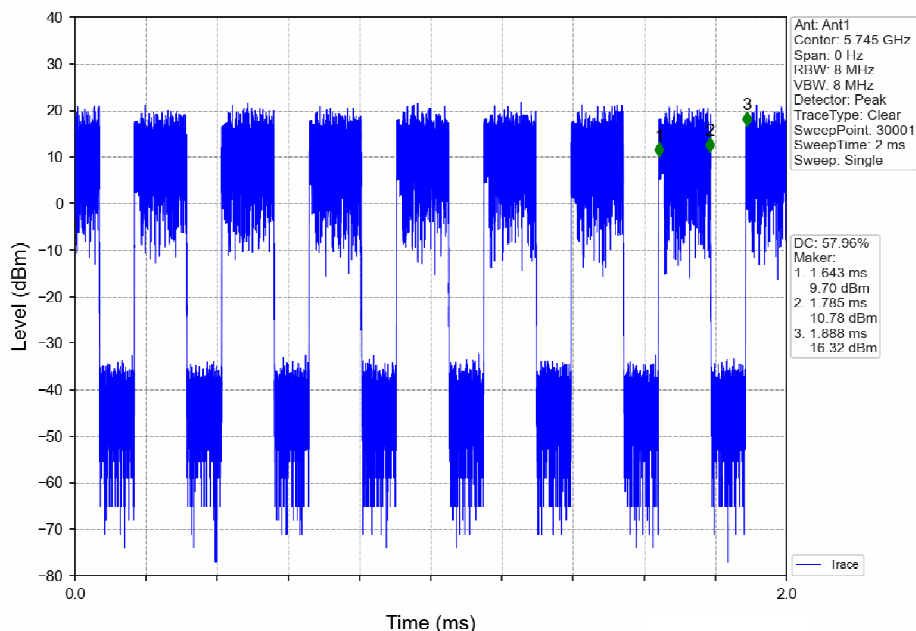
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



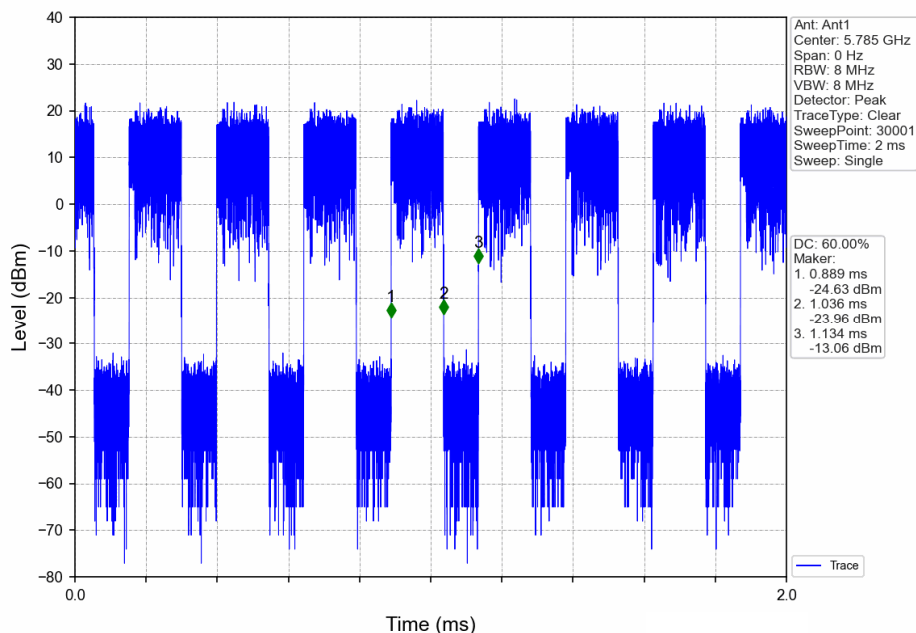
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



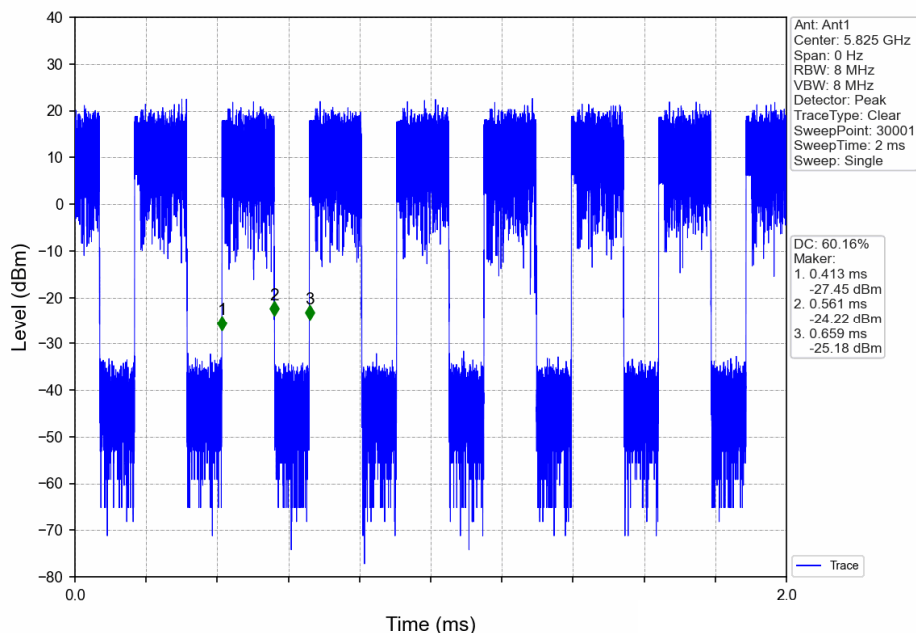
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



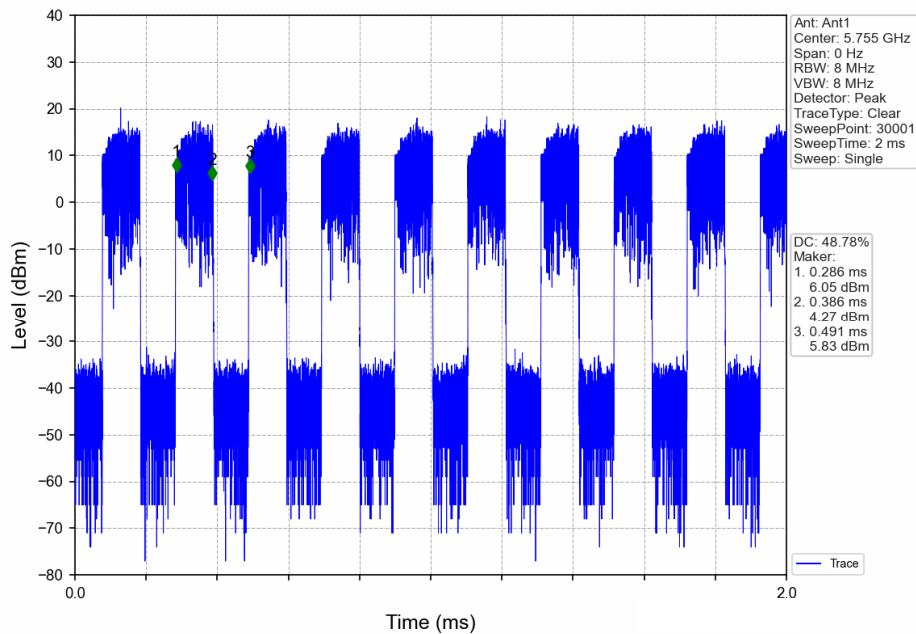
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



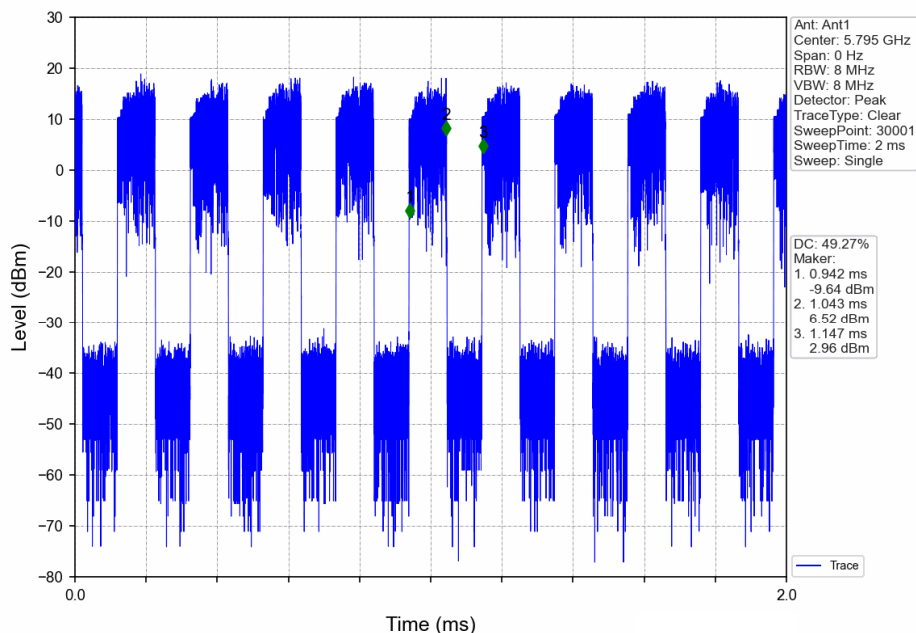
802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



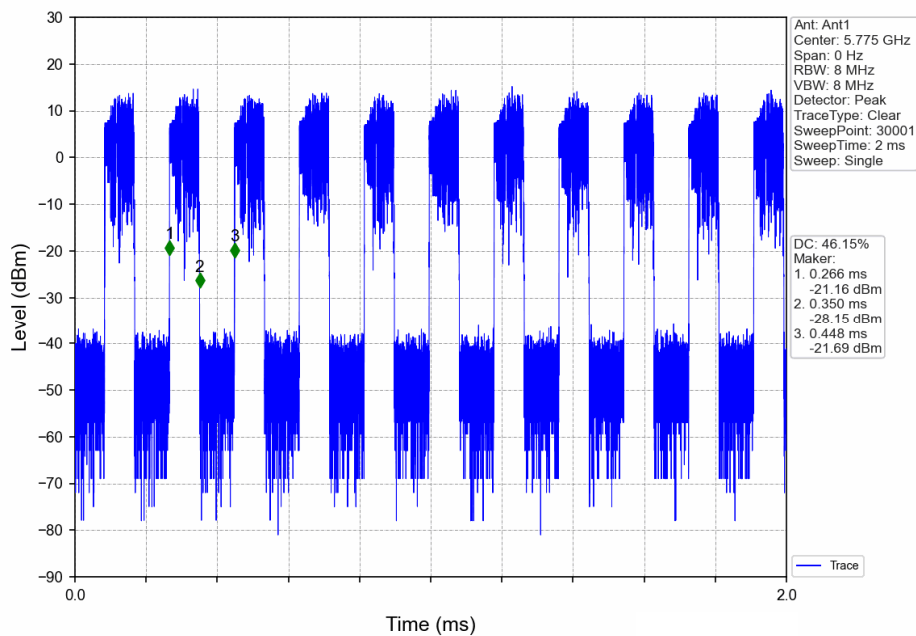
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



2. Bandwidth

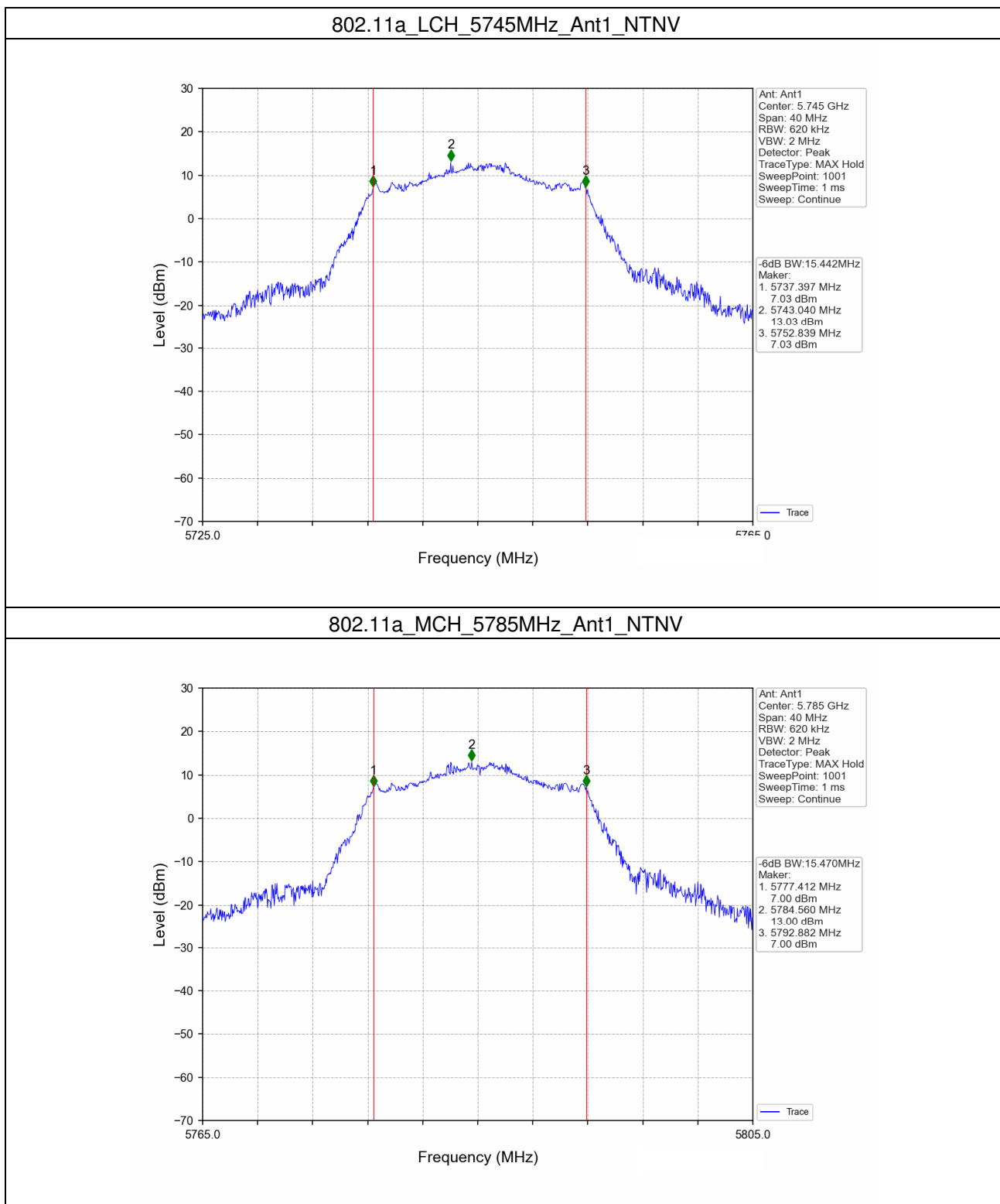
2.1 6dB BW

2.1.1 Test Result

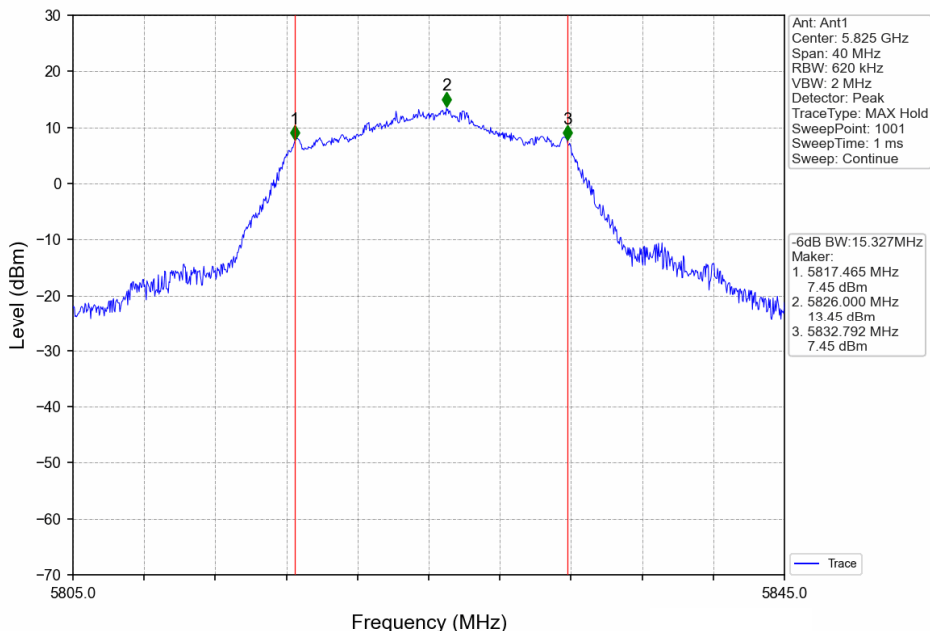
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11a	SISO	5745	/	/	1	15.44	≥ 0.5	Pass
		5785	/	/	1	15.47	≥ 0.5	Pass
		5825	/	/	1	15.33	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	/	/	1	15.95	≥ 0.5	Pass
		5785	/	/	1	15.45	≥ 0.5	Pass
		5825	/	/	1	15.89	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	/	/	1	36.56	≥ 0.5	Pass
		5795	/	/	1	36.47	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	17.99	≥ 0.5	Pass
		5785	/	/	1	18.03	≥ 0.5	Pass
		5825	/	/	1	17.91	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	36.53	≥ 0.5	Pass
		5795	/	/	1	36.81	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	78.12	≥ 0.5	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	1	19.21	≥ 0.5	Pass
		5785	RU242	Left	1	19.10	≥ 0.5	Pass
		5825	RU242	Left	1	19.05	≥ 0.5	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	1	37.86	≥ 0.5	Pass
		5795	RU484	Left	1	38.03	≥ 0.5	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	1	77.68	≥ 0.5	Pass

Remark: Antenna 1 & 2 were tested for Modulation: 802.11a. Only the worst case(Antenna 1) was recorded in the report. Antenna 1, 2 & 1+2, were tested for Modulation: 802.11n(HT20),n(HT40), 802.11ac(HT20), ac(HT40), ac(HT80),ax(HEW20), ax(HEW40), ax(HEW80). Only the worst case(Antenna 1) was recorded in the report.

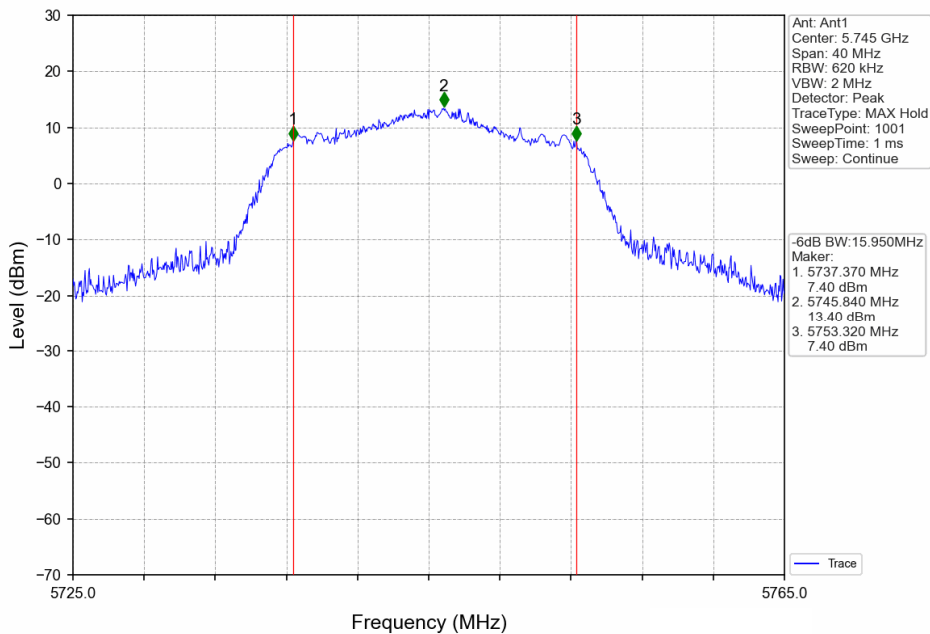
2.2.2 Test Graph



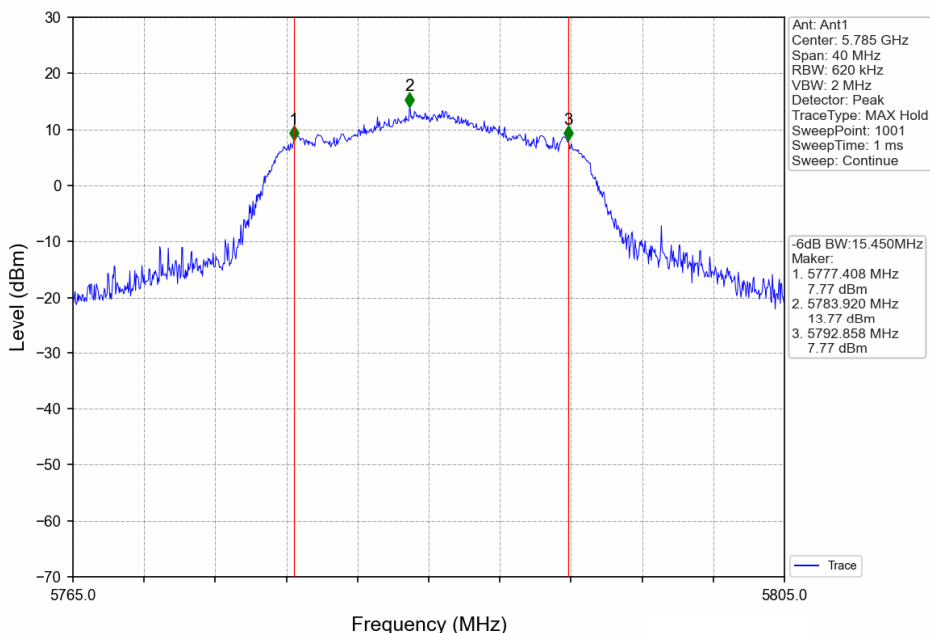
802.11a_HCH_5825MHz_Ant1_NTNV



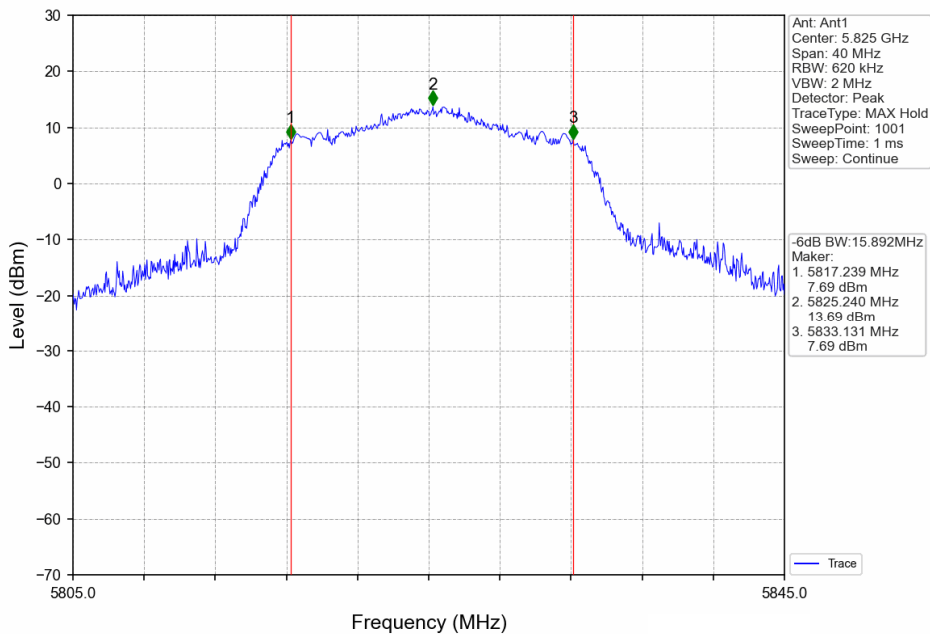
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

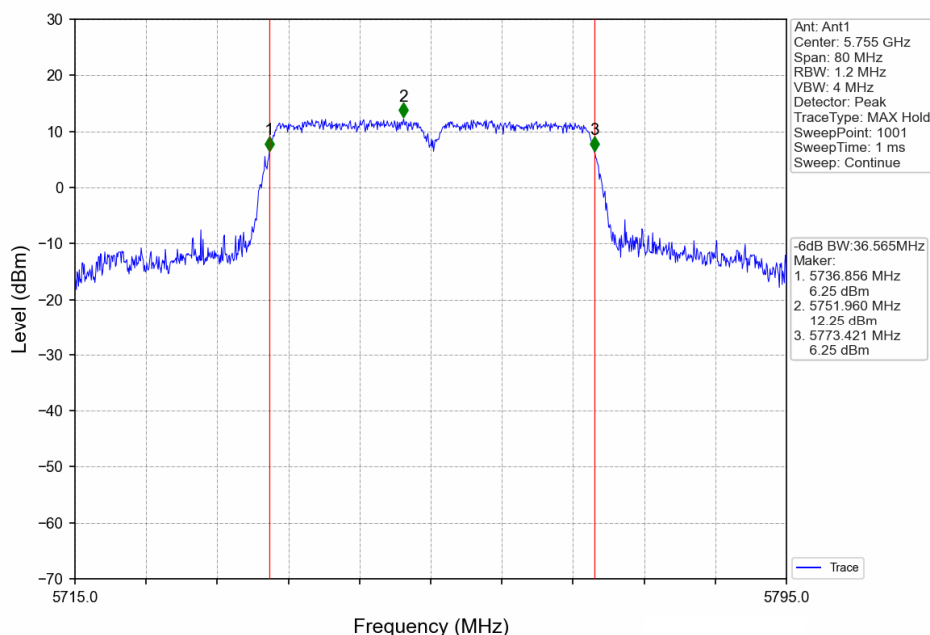


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

