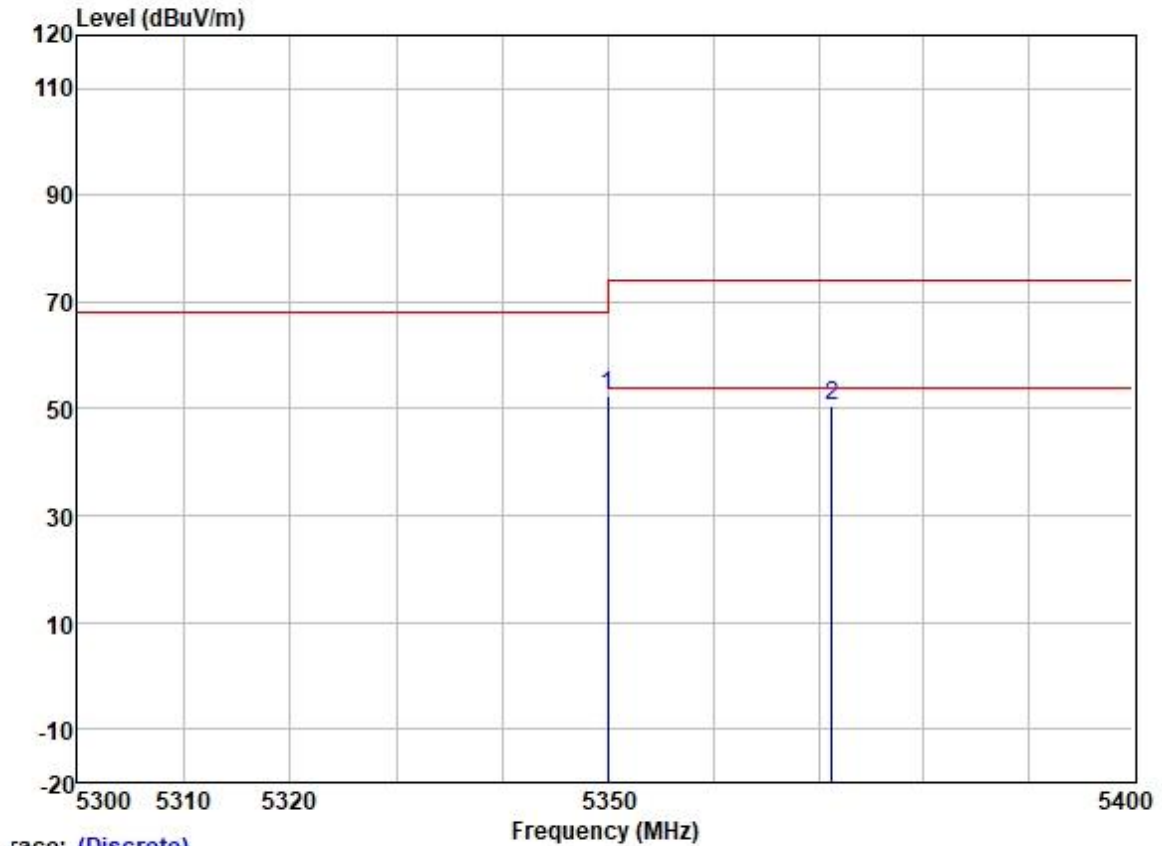


Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

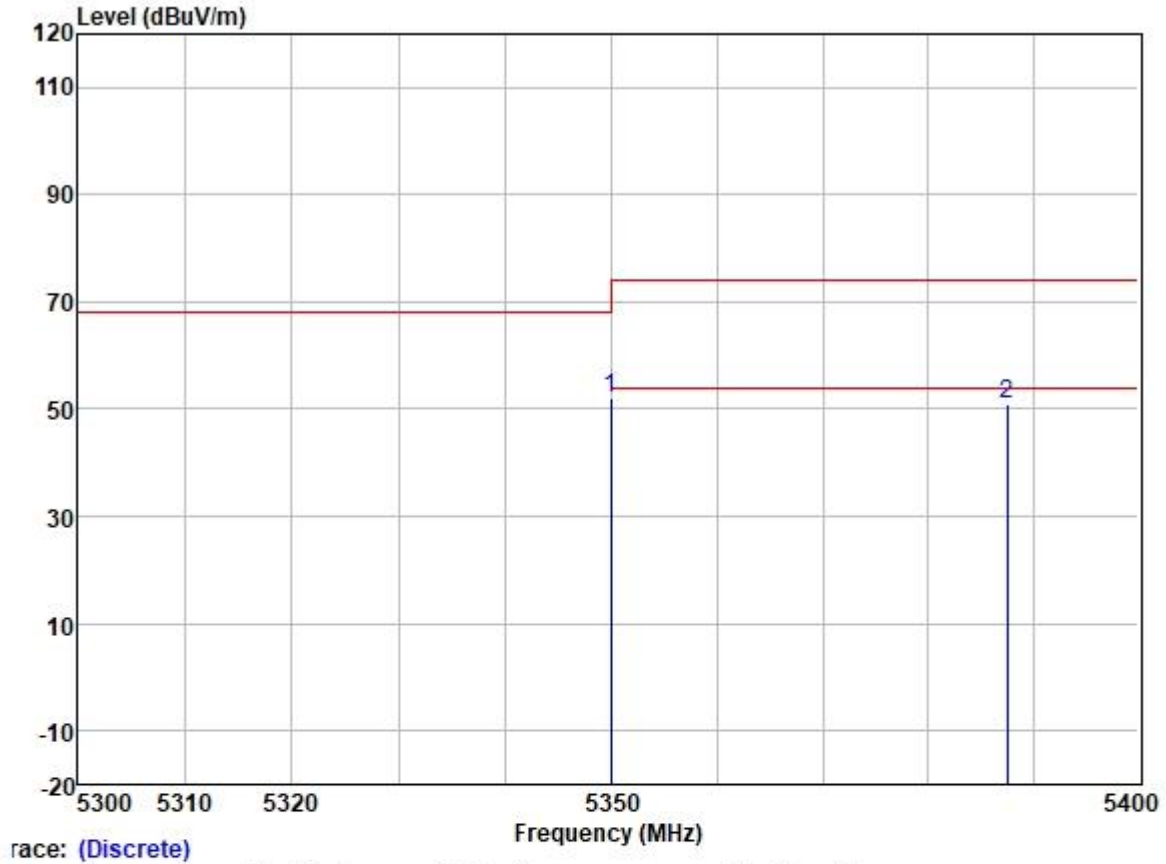
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5350.000	52.07	31.77	5.55	36.88	52.51	68.20	-15.69	VERTICAL Peak
2	5371.309	50.17	31.78	5.56	36.88	50.63	74.00	-23.37	VERTICAL Peak



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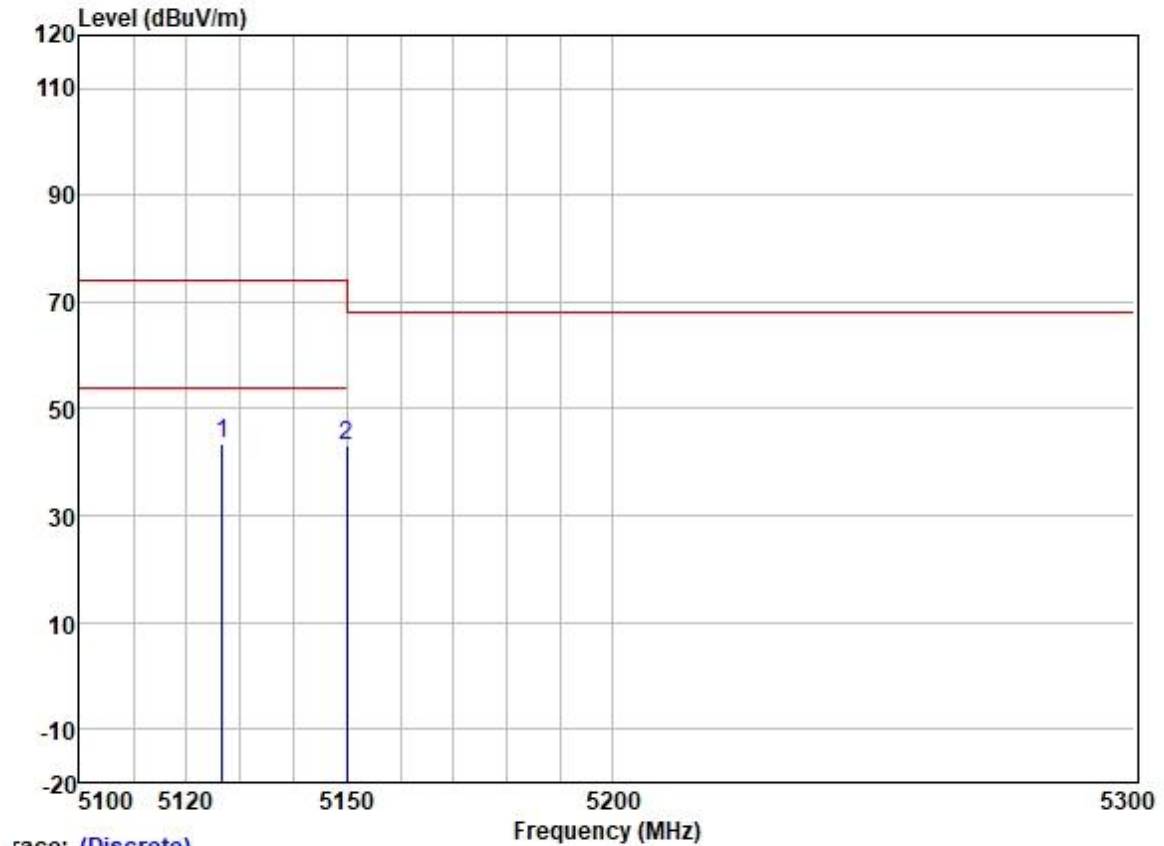
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	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	5350.000	51.68	31.77	5.55	36.88	52.12	68.20	-16.08	HORIZONTAL	Peak
2	5387.490	49.35	31.78	6.00	36.23	50.90	74.00	-23.10	HORIZONTAL	Peak

Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

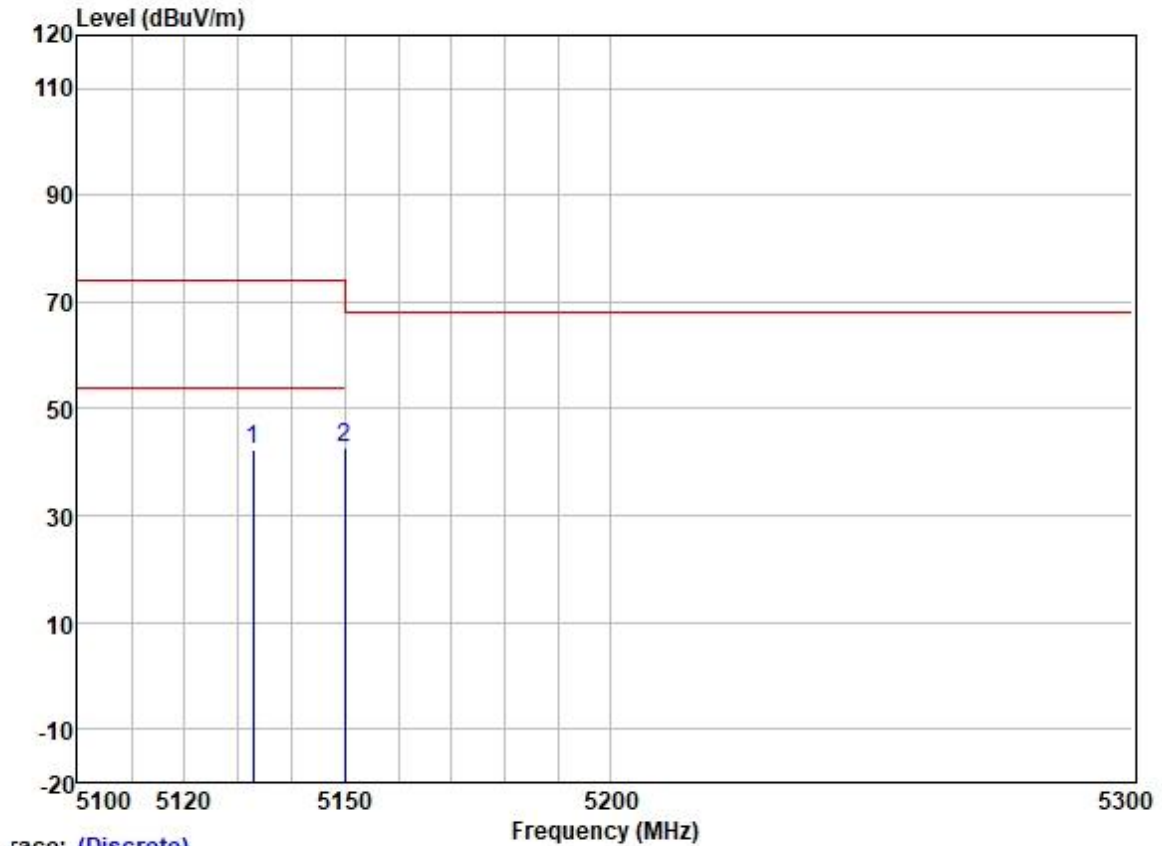
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5126.553	43.04	31.72	5.40	36.86	43.30	74.00	-30.70	VERTICAL Peak
2	5150.000	42.86	31.72	5.42	36.86	43.14	68.20	-25.06	VERTICAL Peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

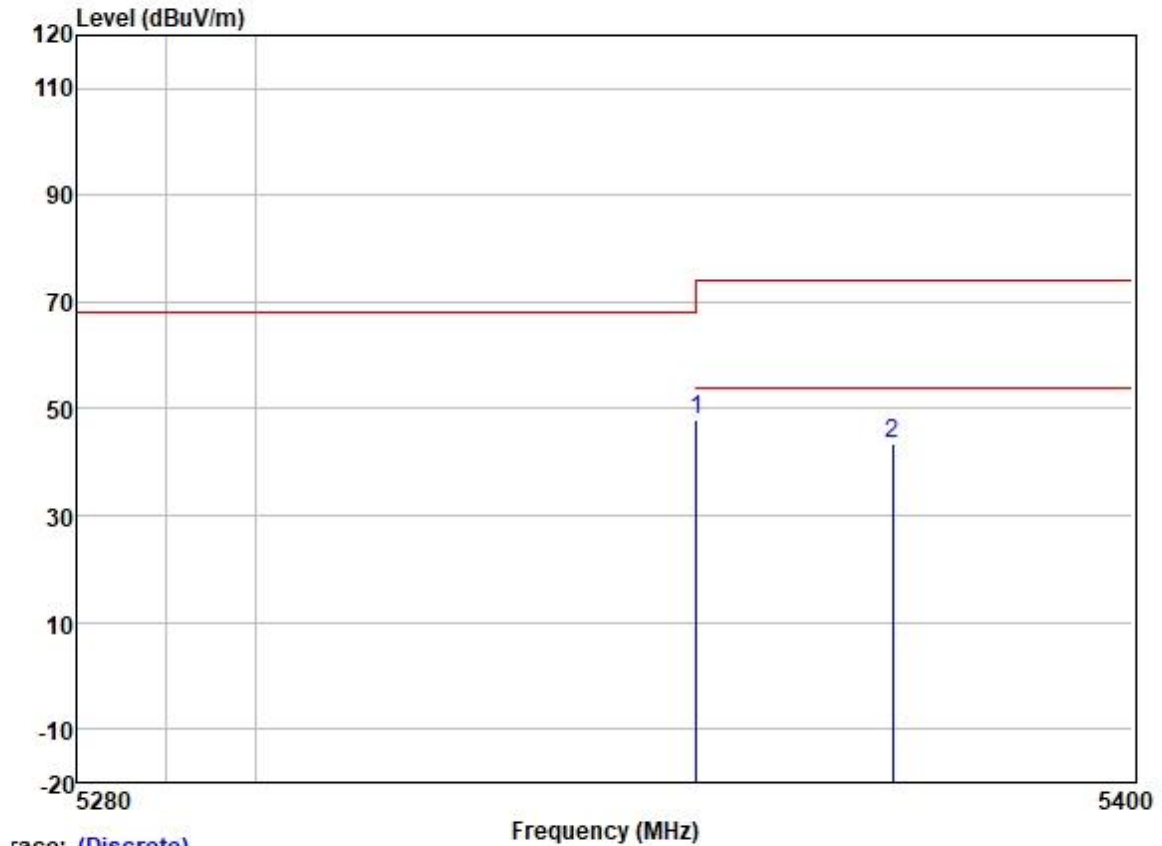
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5132.670	42.18	31.72	5.41	36.86	42.45	74.00	-31.55	HORIZONTAL Peak
2	5150.000	42.46	31.72	5.42	36.86	42.74	68.20	-25.46	HORIZONTAL Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

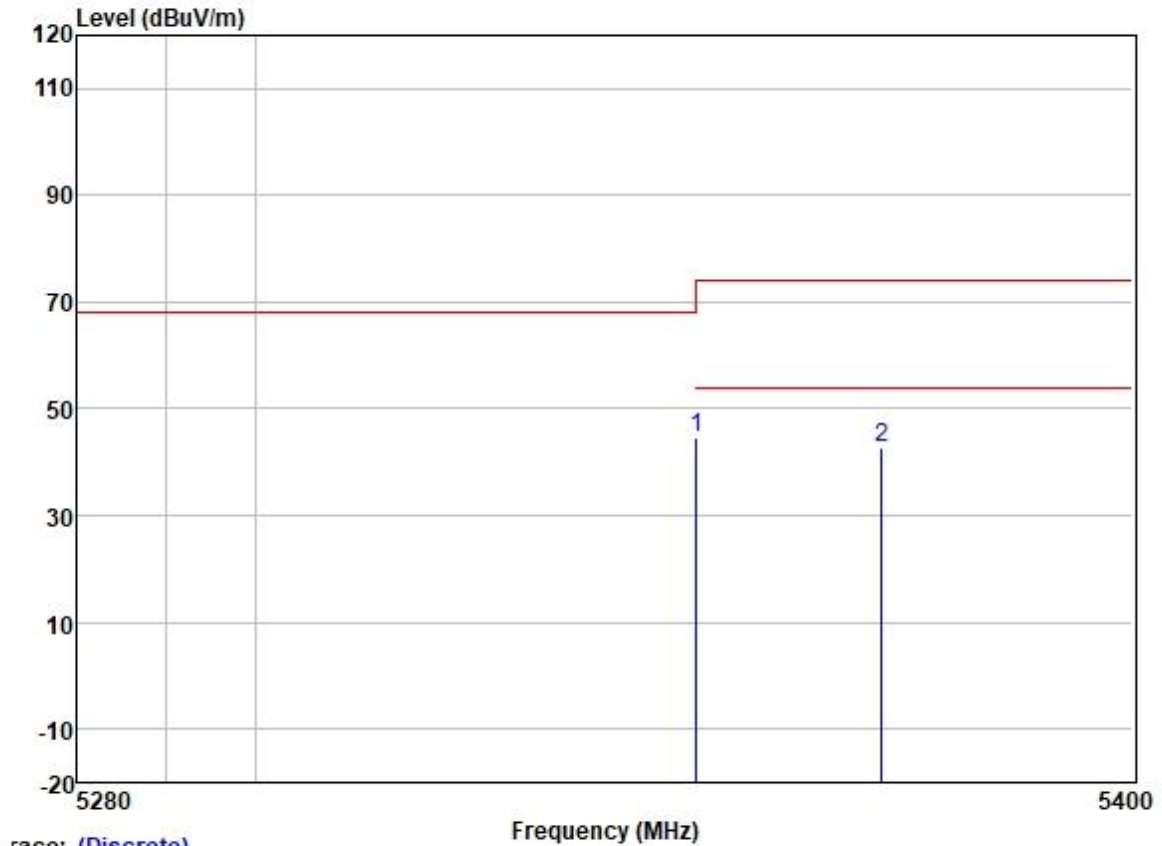
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5350.000	47.33	31.77	5.55	36.88	47.77	68.20	-20.43	VERTICAL Peak
2	5372.402	43.00	31.78	5.56	36.88	43.46	74.00	-30.54	VERTICAL Peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

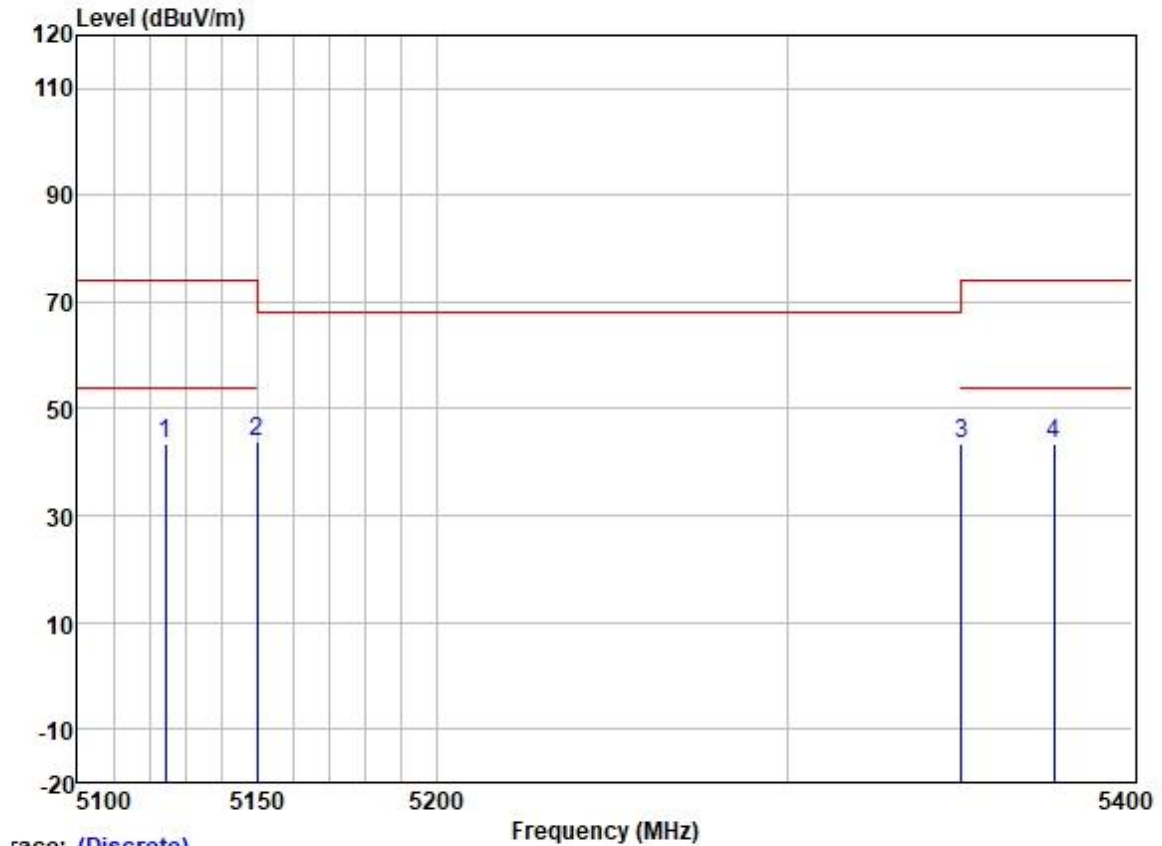


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5350.000	44.23	31.77	5.55	36.88	44.67	68.20	-23.53	HORIZONTAL Peak
2	5371.195	42.39	31.78	5.56	36.88	42.85	74.00	-31.15	HORIZONTAL Peak

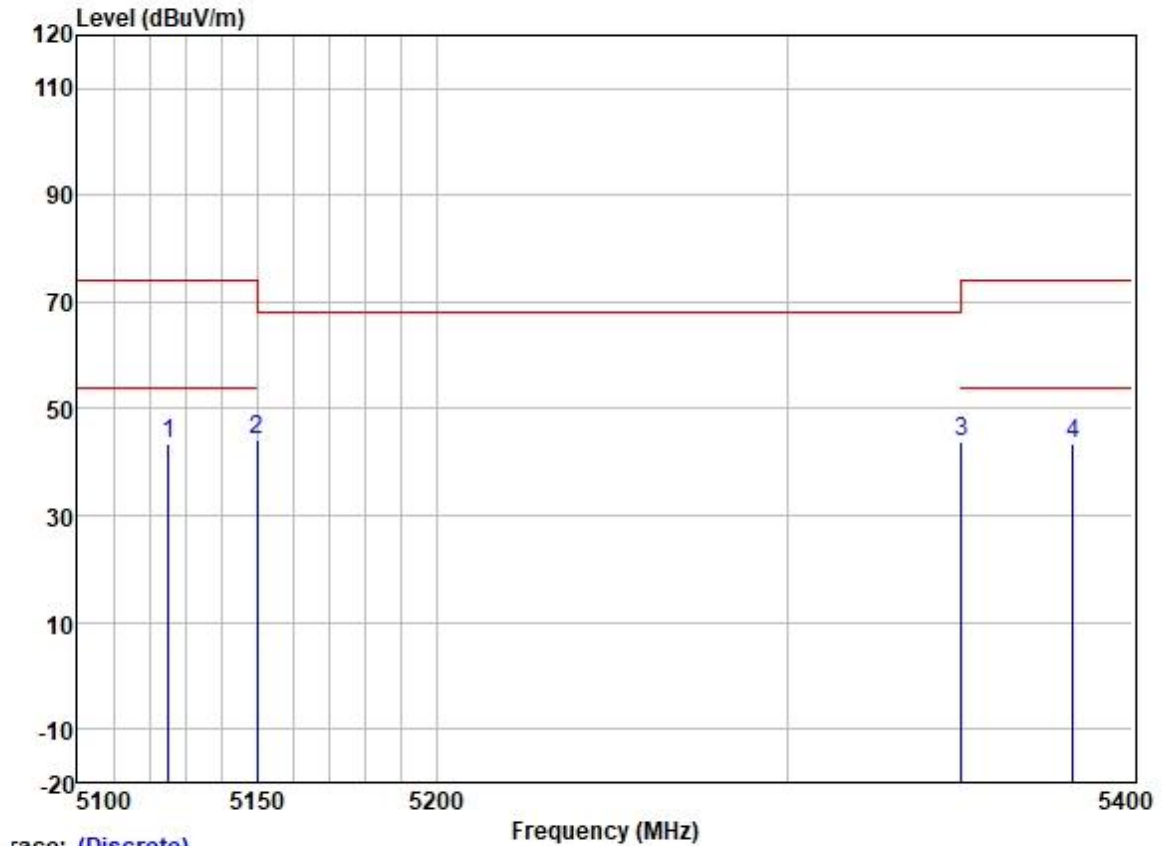


Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5124.252	43.12	31.72	5.40	36.86	43.38	74.00	-30.62	VERTICAL	Peak
2	5150.000	43.45	31.72	5.42	36.86	43.73	68.20	-24.47	VERTICAL	Peak
3	5350.000	42.89	31.77	5.55	36.88	43.33	68.20	-24.87	VERTICAL	Peak
4	5376.900	43.02	31.78	5.56	36.88	43.48	74.00	-30.52	VERTICAL	Peak

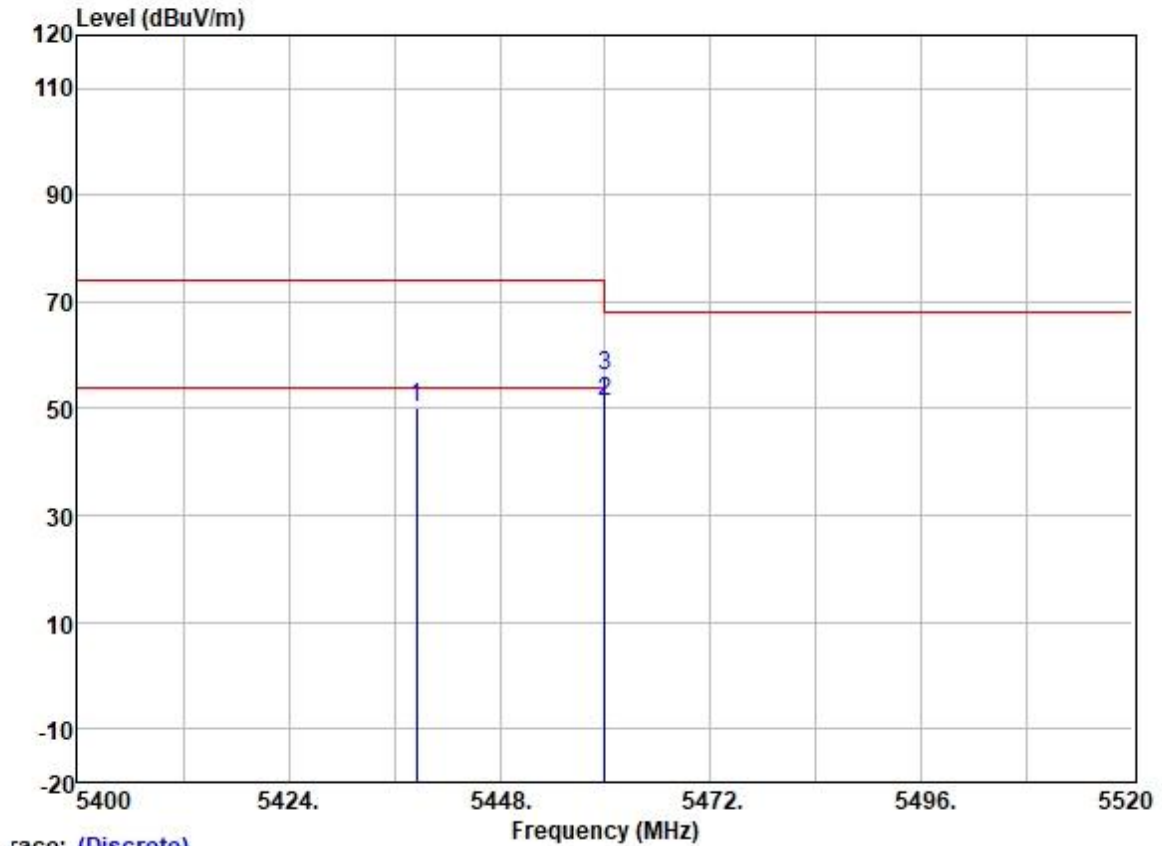
Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	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	5125.131	43.33	31.72	5.40	36.86	43.59	74.00	-30.41	HORIZONTAL Peak
2	5150.000	43.87	31.72	5.42	36.86	44.15	68.20	-24.05	HORIZONTAL Peak
3	5350.000	43.24	31.77	5.55	36.88	43.68	68.20	-24.52	HORIZONTAL Peak
4	5382.435	42.96	31.78	5.56	36.88	43.42	74.00	-30.58	HORIZONTAL Peak

Test Mode: 10; 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	5438.520	49.59	31.79	5.59	36.88	50.09	74.00	-23.91	VERTICAL Peak
2	5460.000	50.84	31.79	5.59	36.88	51.34	54.00	-2.66	VERTICAL Average
3	5460.000	55.61	31.79	5.59	36.88	56.11	68.20	-12.09	VERTICAL Peak

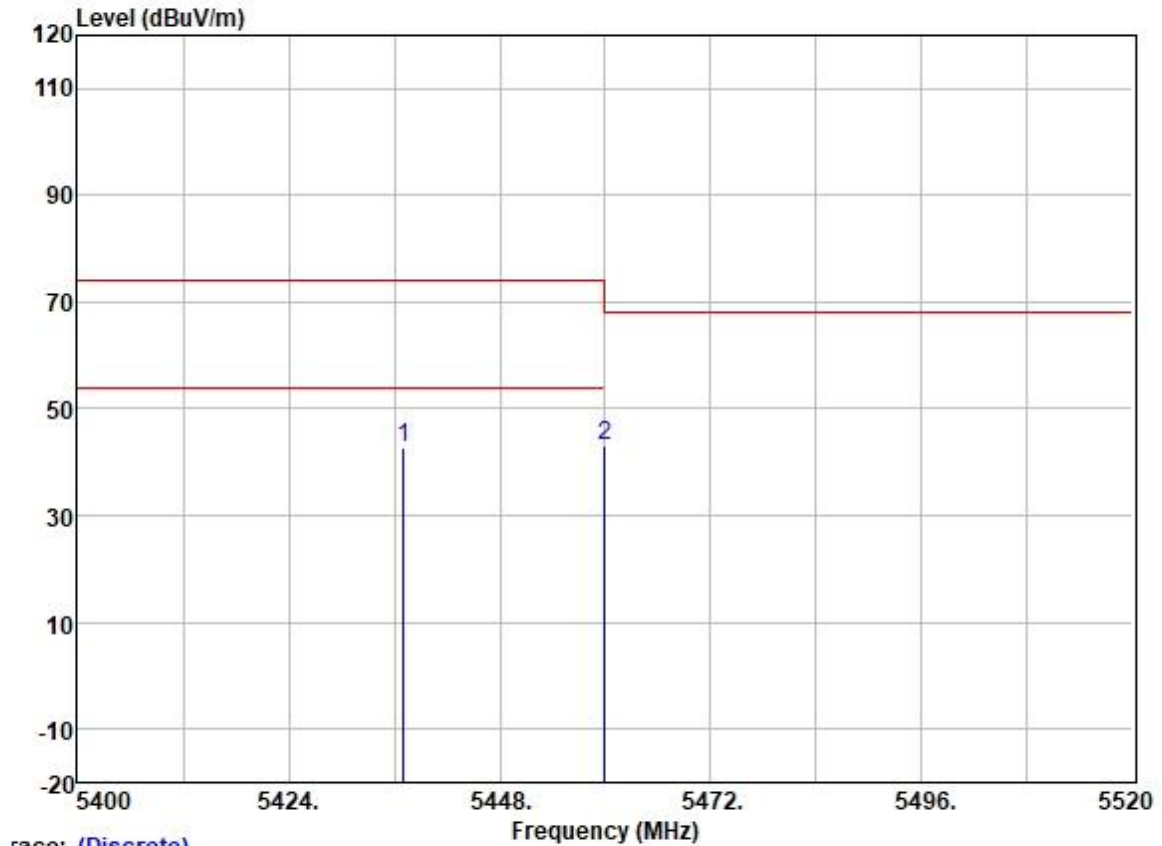
According to KDB 789033 D02 II G.

Frequency (MHz)	Duty cycle	Factor(dB)*	AV Measured Level (dBuV/m)	AV Amendment Level** (dBuV/m)	Limit (dBuV/m)	Over limit (dB)
5460	63.04%	1.96	51.34	53.3	54	-0.70

*Remark: Factor(dB)=10log (1/Duty cycle) = 10*log (1/0.6304) = 1.96 dB

**Remark: AV Amendment Level (dBuV/m) = AV Measured Level (dBuV/m) + Factor(dB)

Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

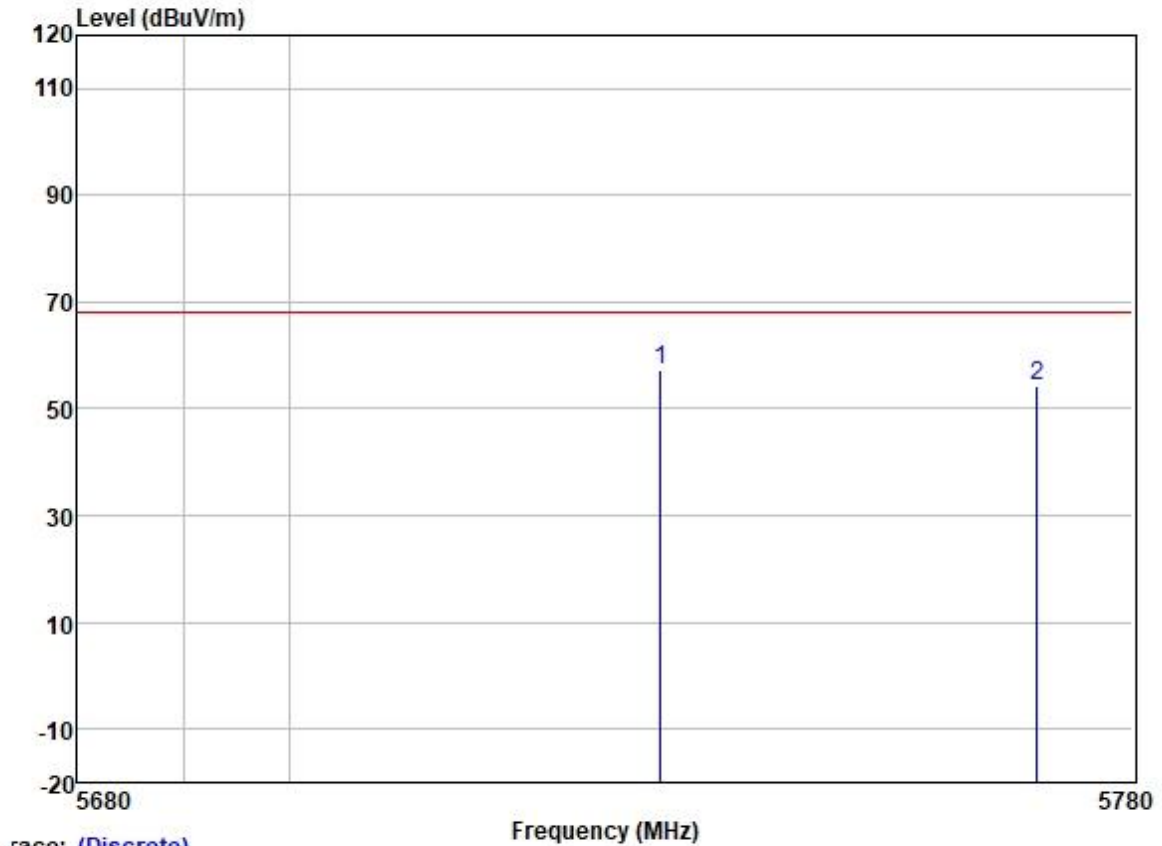
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5437.080	42.06	31.79	5.59	36.88	42.56	74.00	-31.44	HORIZONTAL Peak
2	5460.000	42.56	31.79	5.59	36.88	43.06	68.20	-25.14	HORIZONTAL Peak



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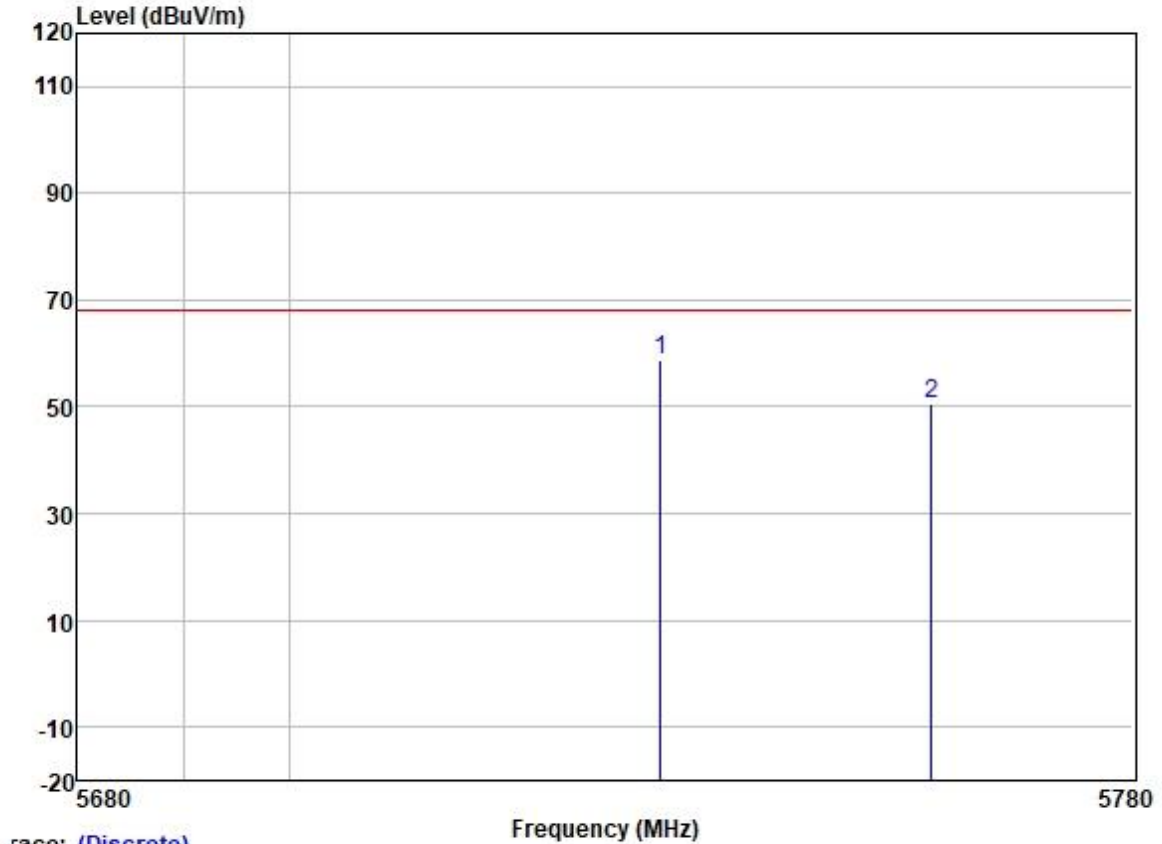
Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5735.000	56.41	32.07	5.78	36.89	57.37	68.20	-10.83	VERTICAL	Peak
2	5770.828	53.22	32.13	5.82	36.89	54.28	68.20	-13.92	VERTICAL	Peak

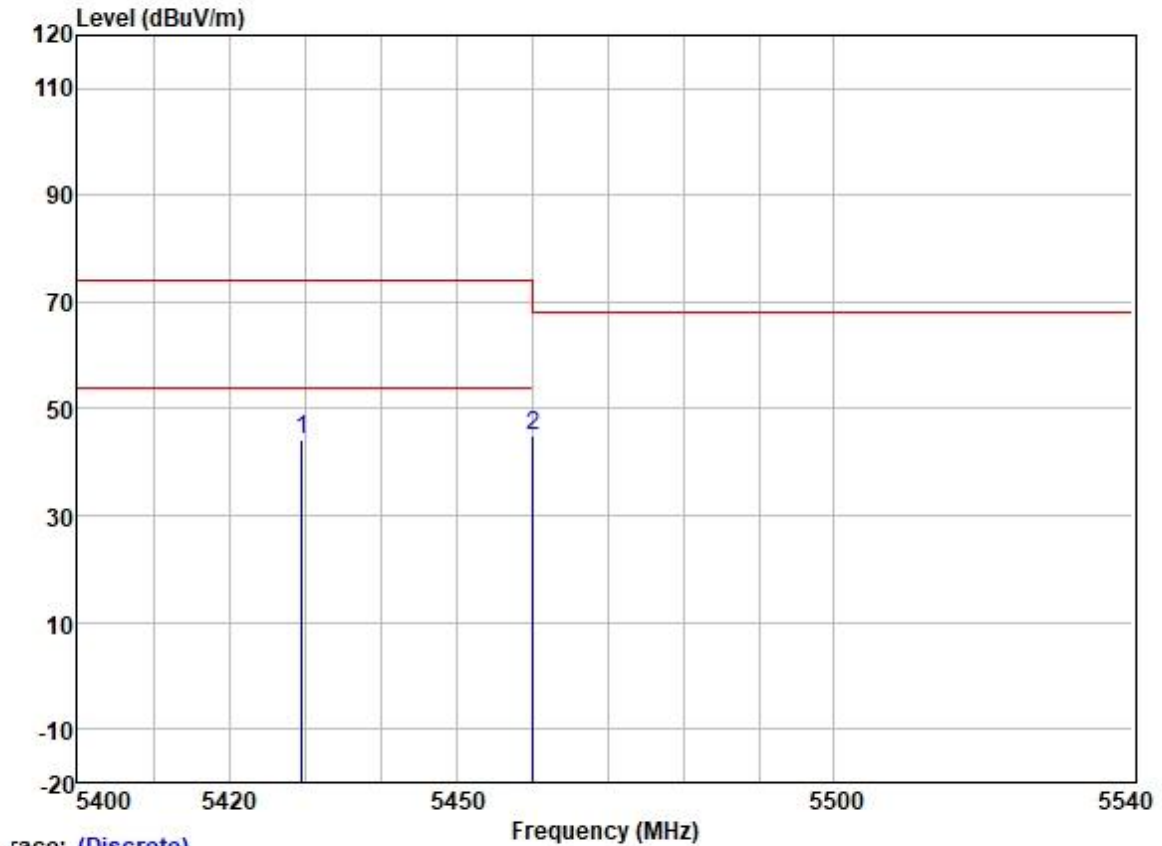
Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5735.000	57.69	32.07	5.78	36.89	58.65	68.20	-9.55	HORIZONTAL Peak
2	5760.765	49.51	32.13	5.82	36.89	50.57	68.20	-17.63	HORIZONTAL Peak

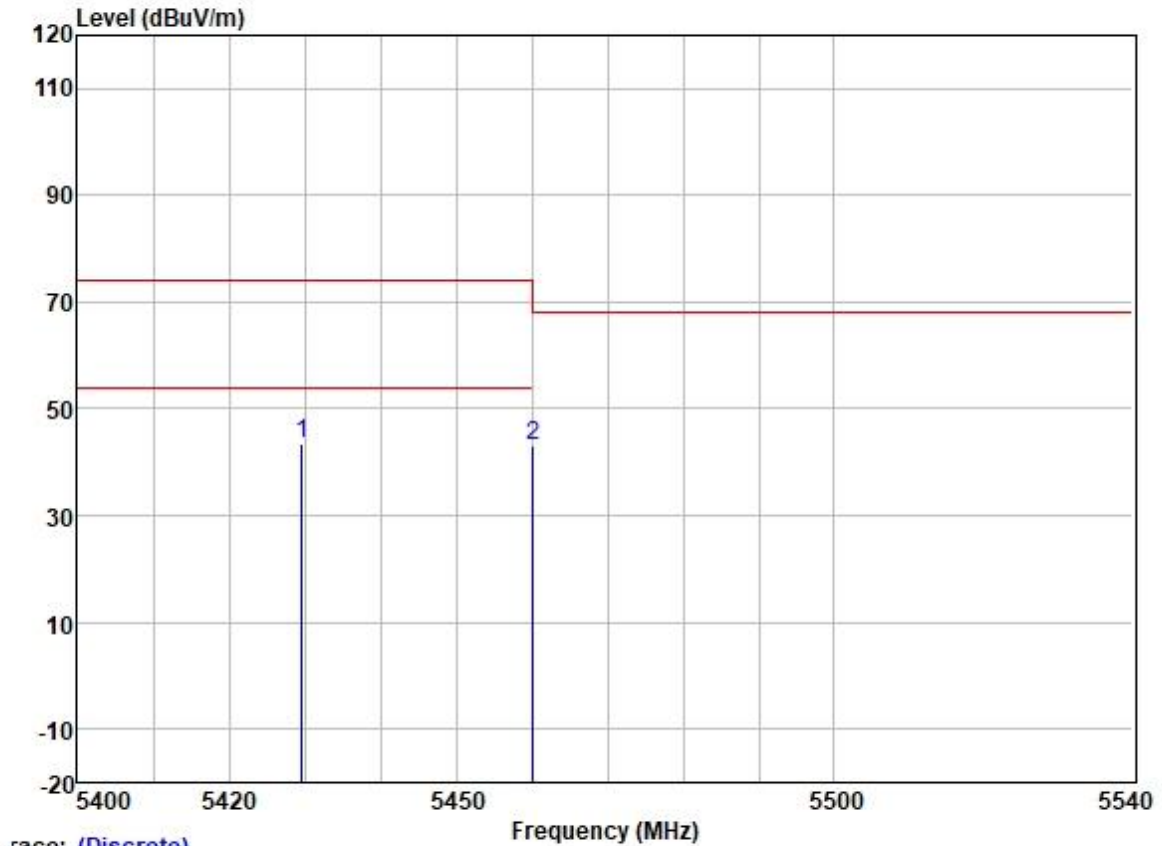
Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5429.521	43.68	31.79	5.58	36.88	44.17	74.00	-29.83	VERTICAL	Peak
2	5460.000	44.43	31.79	5.59	36.88	44.93	68.20	-23.27	VERTICAL	Peak

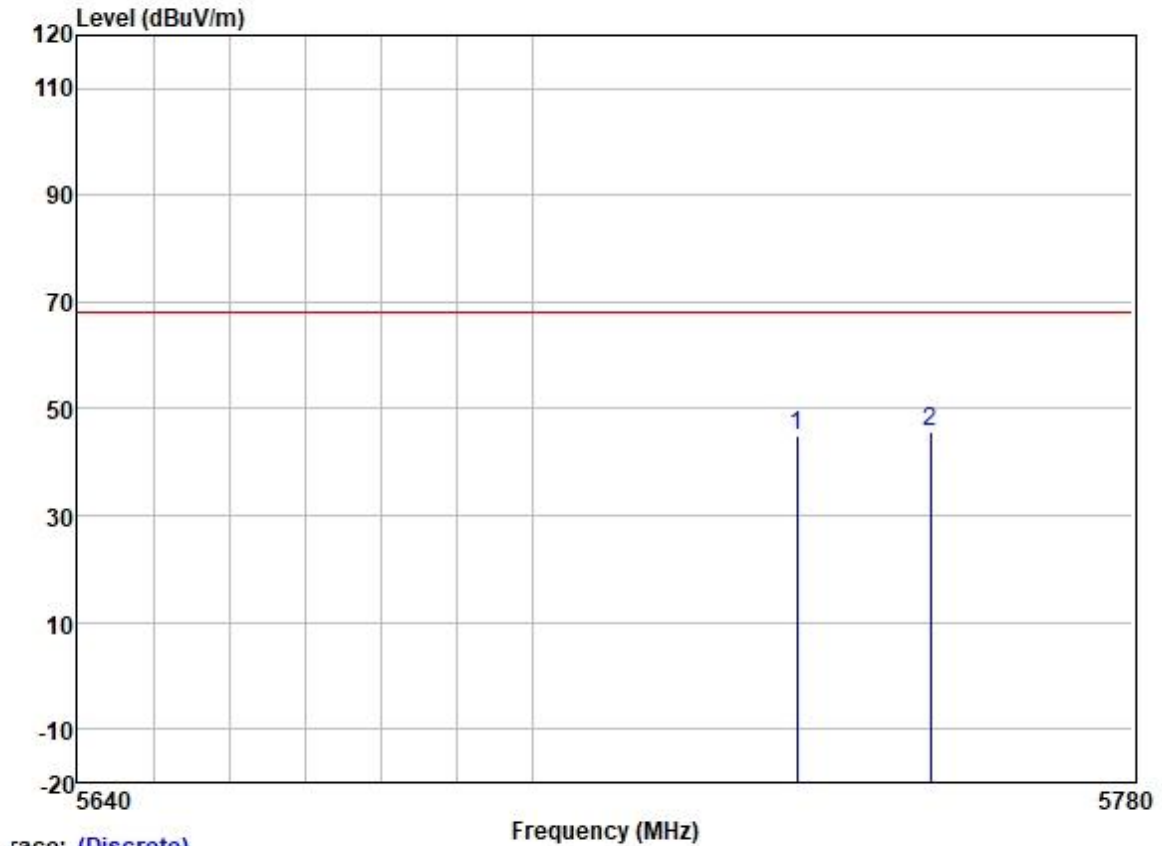
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Trace: (Discrete)

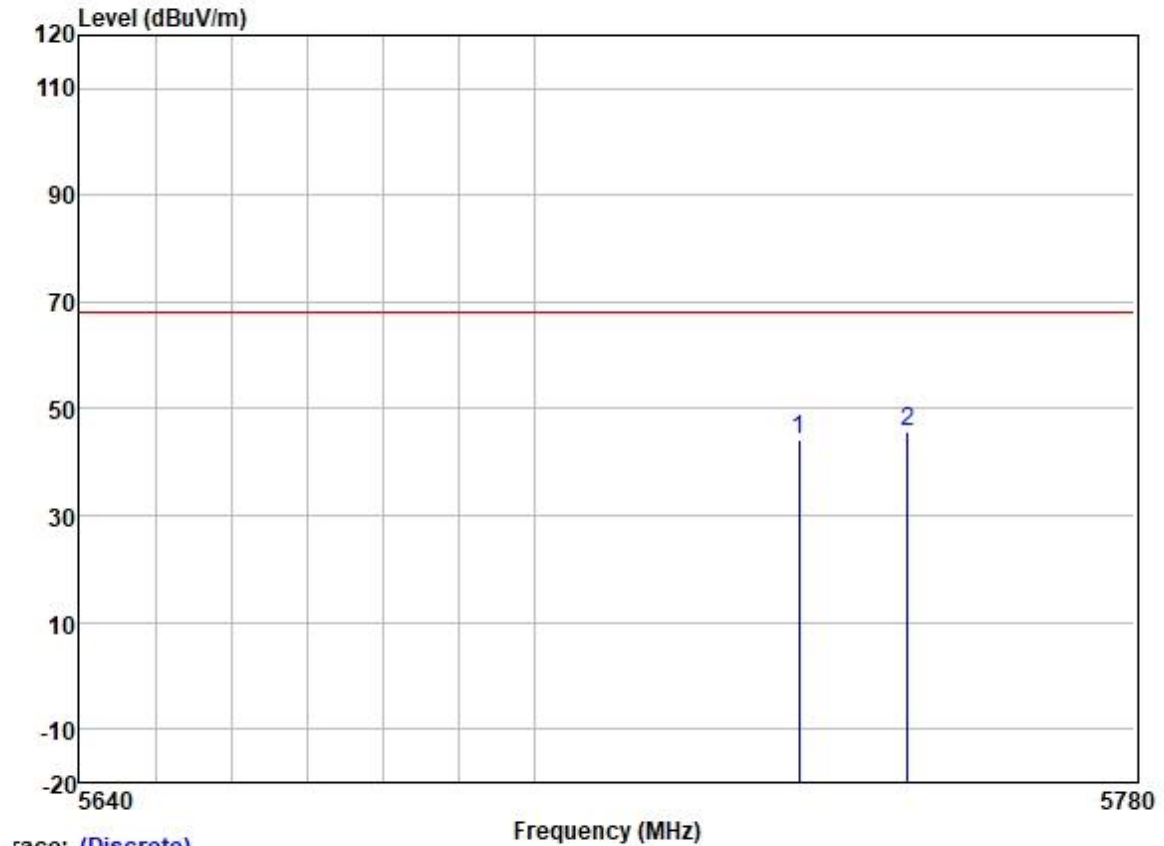
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5429.521	42.90	31.79	5.58	36.88	43.39	74.00	-30.61	HORIZONTAL	Peak
2	5460.000	42.60	31.79	5.59	36.88	43.10	68.20	-25.10	HORIZONTAL	Peak

Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5735.000	43.88	32.07	5.78	36.89	44.84	68.20	-23.36	VERTICAL	Peak
2	5752.853	44.52	32.10	5.80	36.89	45.53	68.20	-22.67	VERTICAL	Peak

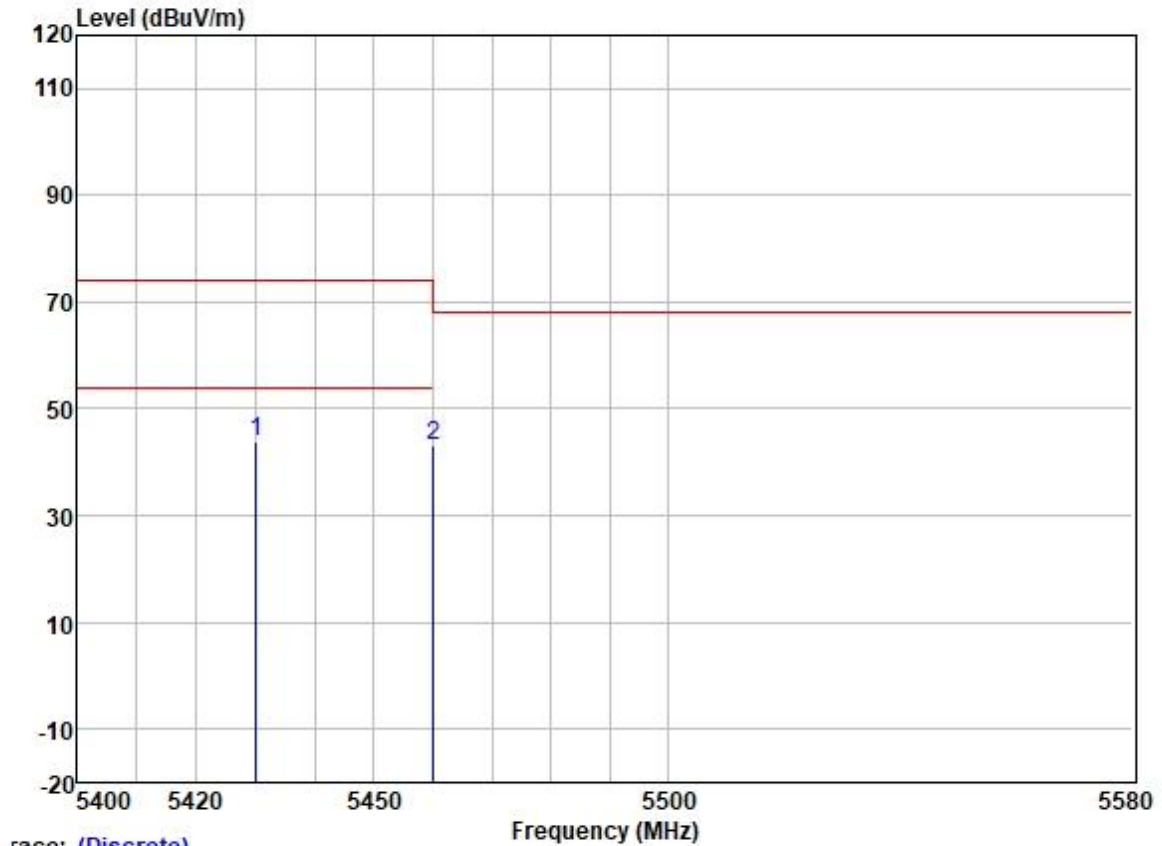
Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5735.000	43.08	32.07	5.78	36.89	44.04	68.20	-24.16	HORIZONTAL Peak
2	5749.469	44.84	32.10	5.80	36.89	45.85	68.20	-22.35	HORIZONTAL Peak

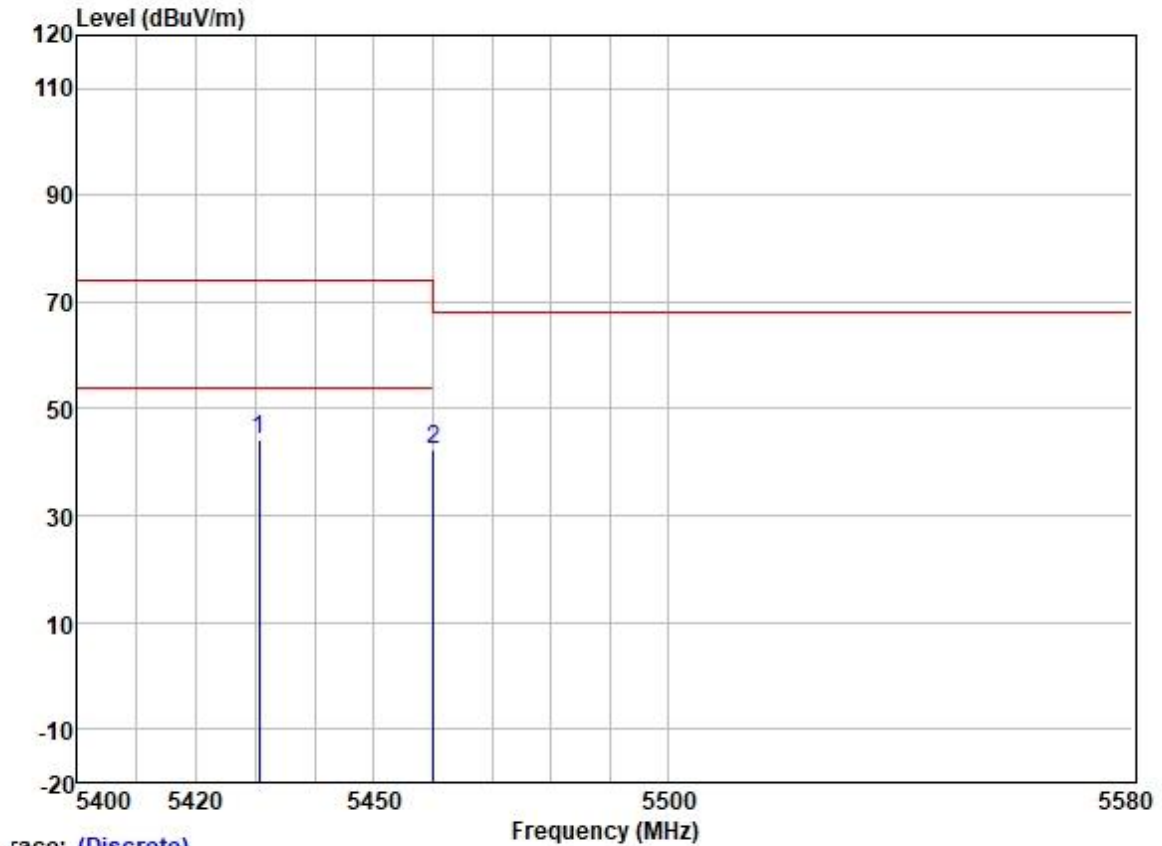
Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	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	5430.007	43.20	31.79	5.58	36.88	43.69	74.00	-30.31	VERTICAL Peak
2	5460.000	42.64	31.79	5.59	36.88	43.14	68.20	-25.06	VERTICAL Peak

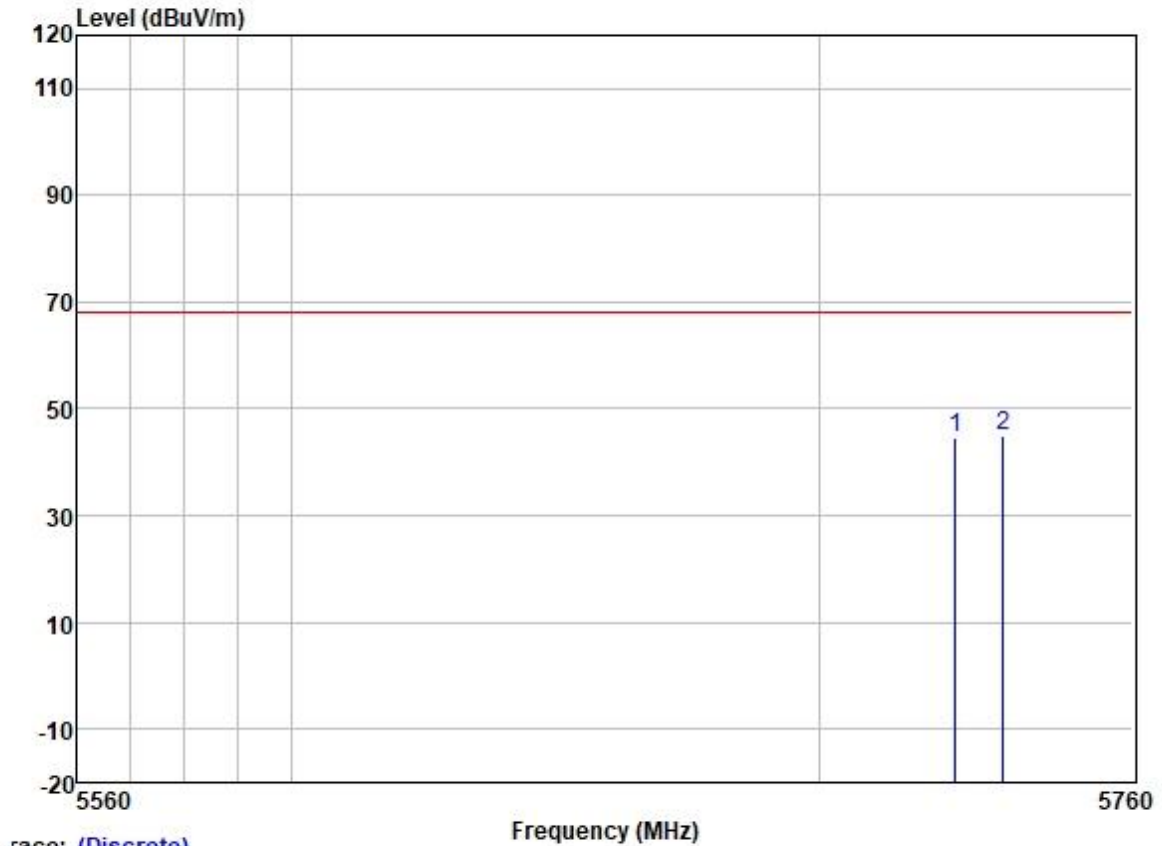
Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5430.541	43.61	31.79	5.58	36.88	44.10	74.00	-29.90	HORIZONTAL Peak
2	5460.000	41.75	31.79	5.59	36.88	42.25	68.20	-25.95	HORIZONTAL Peak

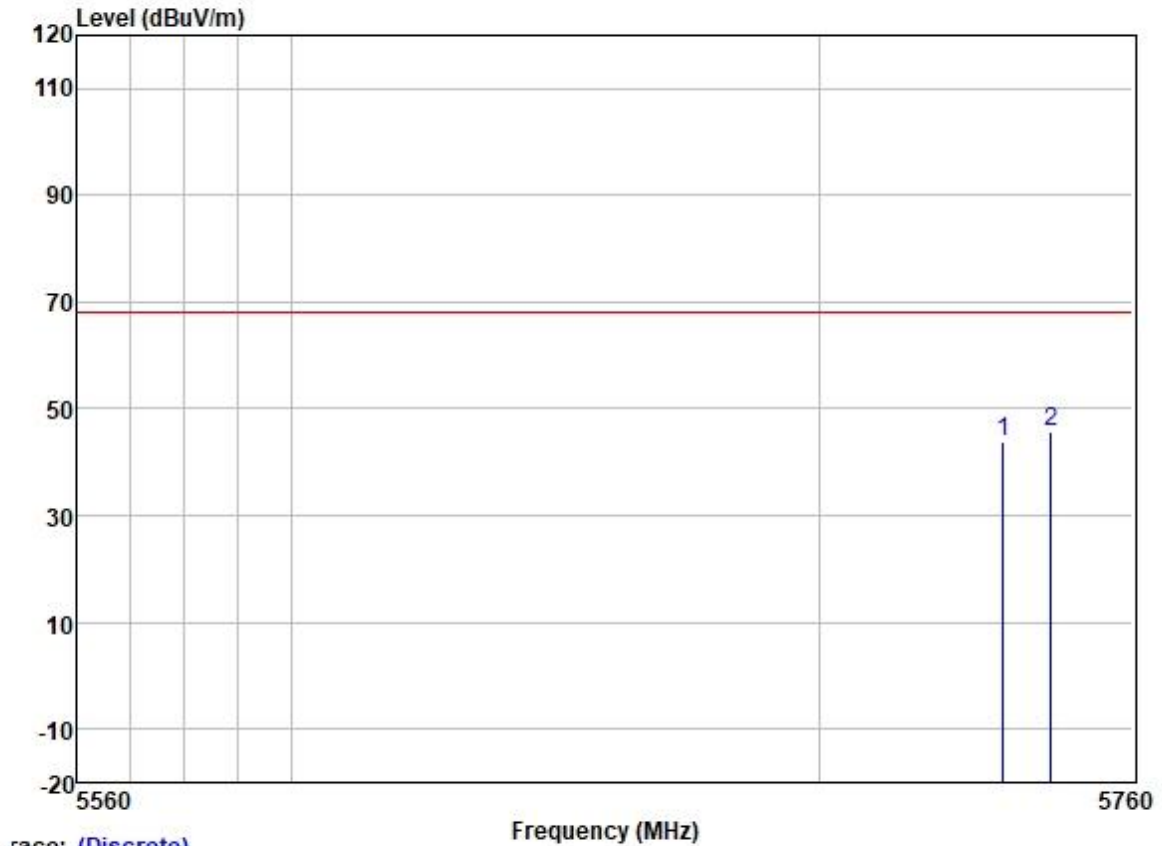
Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	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	5725.904	43.62	32.07	5.78	36.89	44.58	68.20	-23.62	VERTICAL Peak
2	5735.000	43.88	32.07	5.78	36.89	44.84	68.20	-23.36	VERTICAL Peak

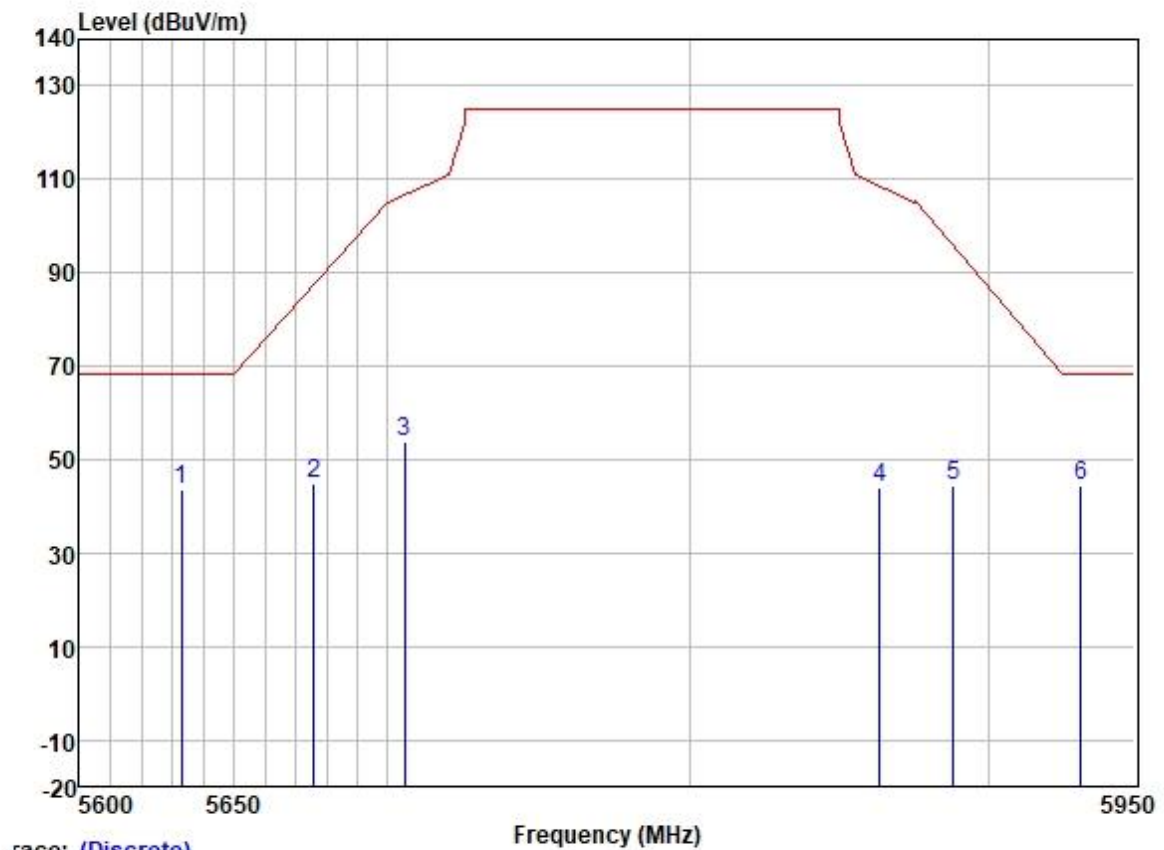
Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



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	5735.000	43.05	32.07	5.78	36.89	44.01	68.20	-24.19	HORIZONTAL Peak
2	5744.145	44.61	32.10	5.80	36.89	45.62	68.20	-22.58	HORIZONTAL Peak

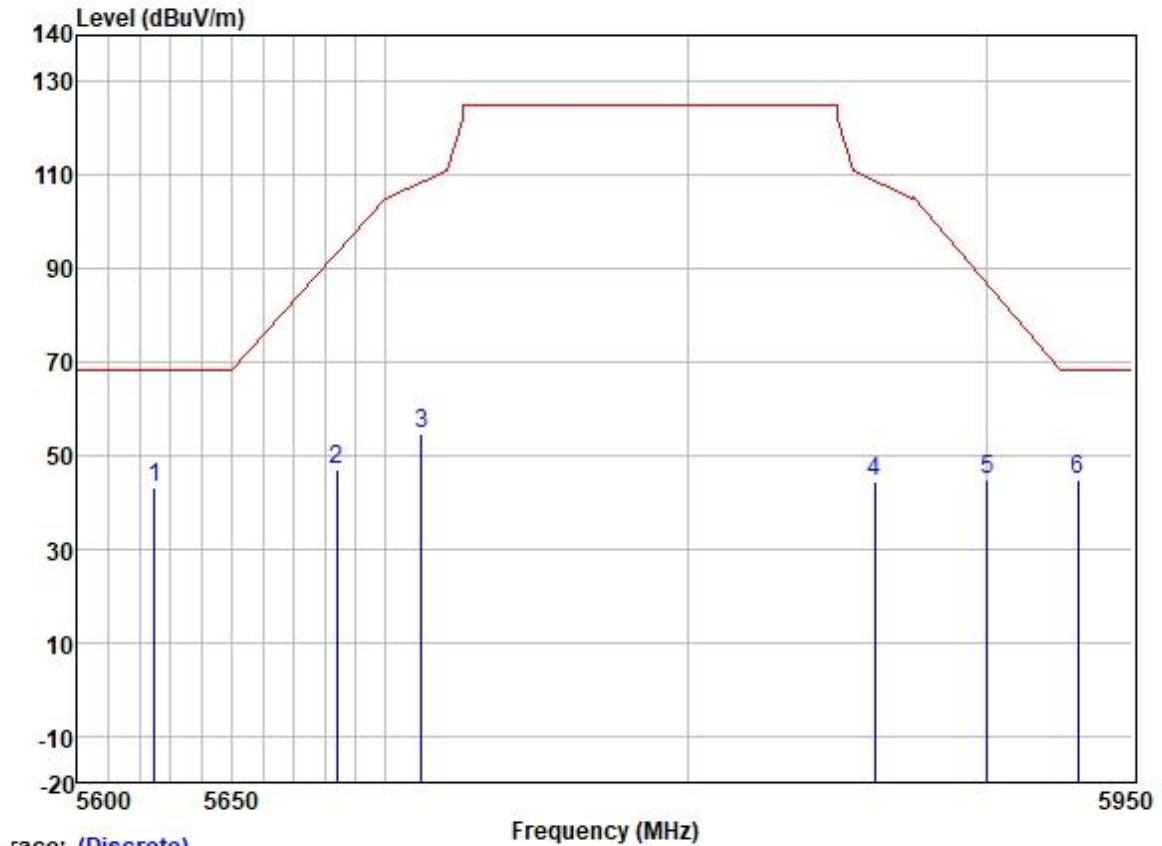
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	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	5633.028	42.73	31.93	5.69	36.89	43.46	68.20	-24.74	VERTICAL Peak
2	5675.878	44.23	31.99	5.73	36.89	45.06	87.39	-42.33	VERTICAL Peak
3	5705.548	53.03	32.01	5.75	36.89	53.90	106.76	-52.86	VERTICAL Peak
4	5863.344	42.62	32.27	5.91	36.90	43.90	108.46	-64.56	VERTICAL Peak
5	5888.279	42.94	32.29	5.92	36.90	44.25	95.39	-51.14	VERTICAL Peak
6	5931.632	42.83	32.34	5.95	36.90	44.22	68.20	-23.98	VERTICAL Peak

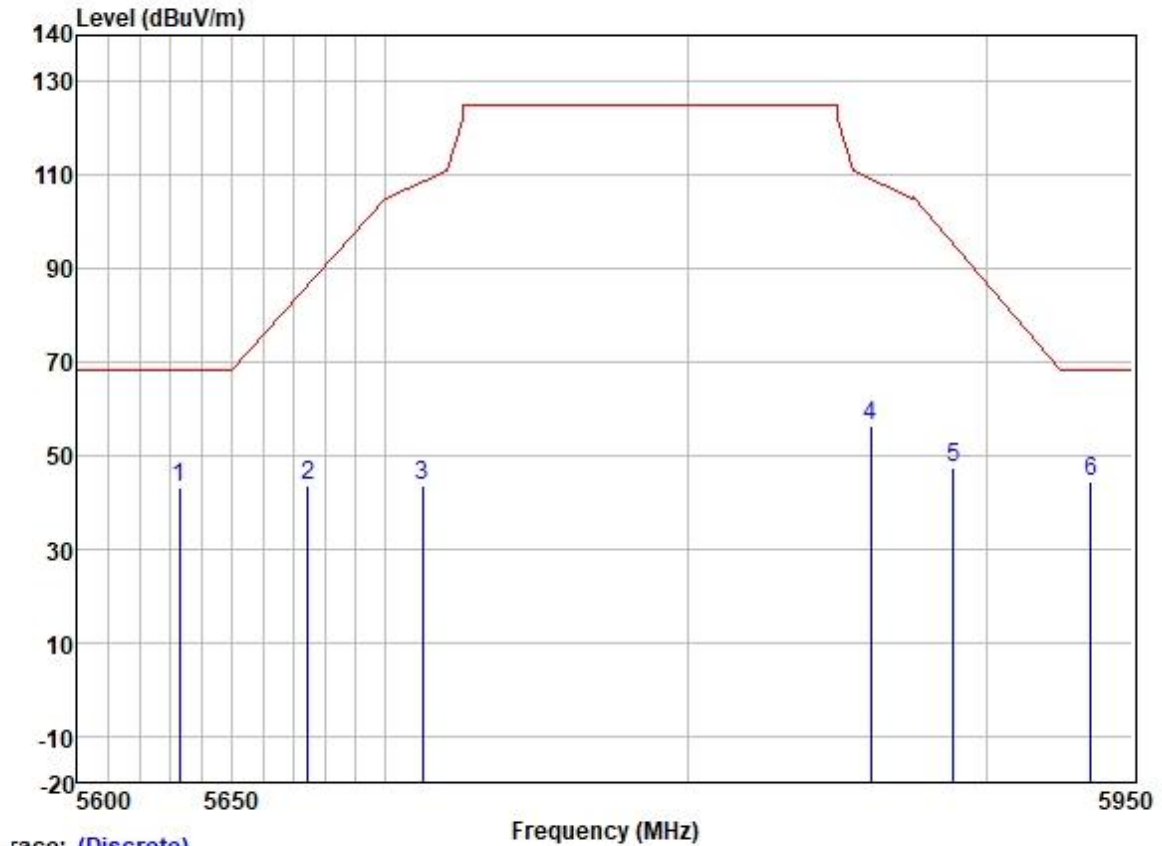
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	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	5624.838	42.61	31.93	5.69	36.89	43.34	68.20	-24.86	HORIZONTAL Peak
2	5684.143	46.18	31.99	5.73	36.89	47.01	93.50	-46.49	HORIZONTAL Peak
3	5711.777	53.63	32.04	5.76	36.89	54.54	108.50	-53.96	HORIZONTAL Peak
4	5862.277	43.24	32.27	5.91	36.90	44.52	108.76	-64.24	HORIZONTAL Peak
5	5900.429	43.50	32.31	5.93	36.90	44.84	86.38	-41.54	HORIZONTAL Peak
6	5931.272	43.54	32.34	5.95	36.90	44.93	68.20	-23.27	HORIZONTAL Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

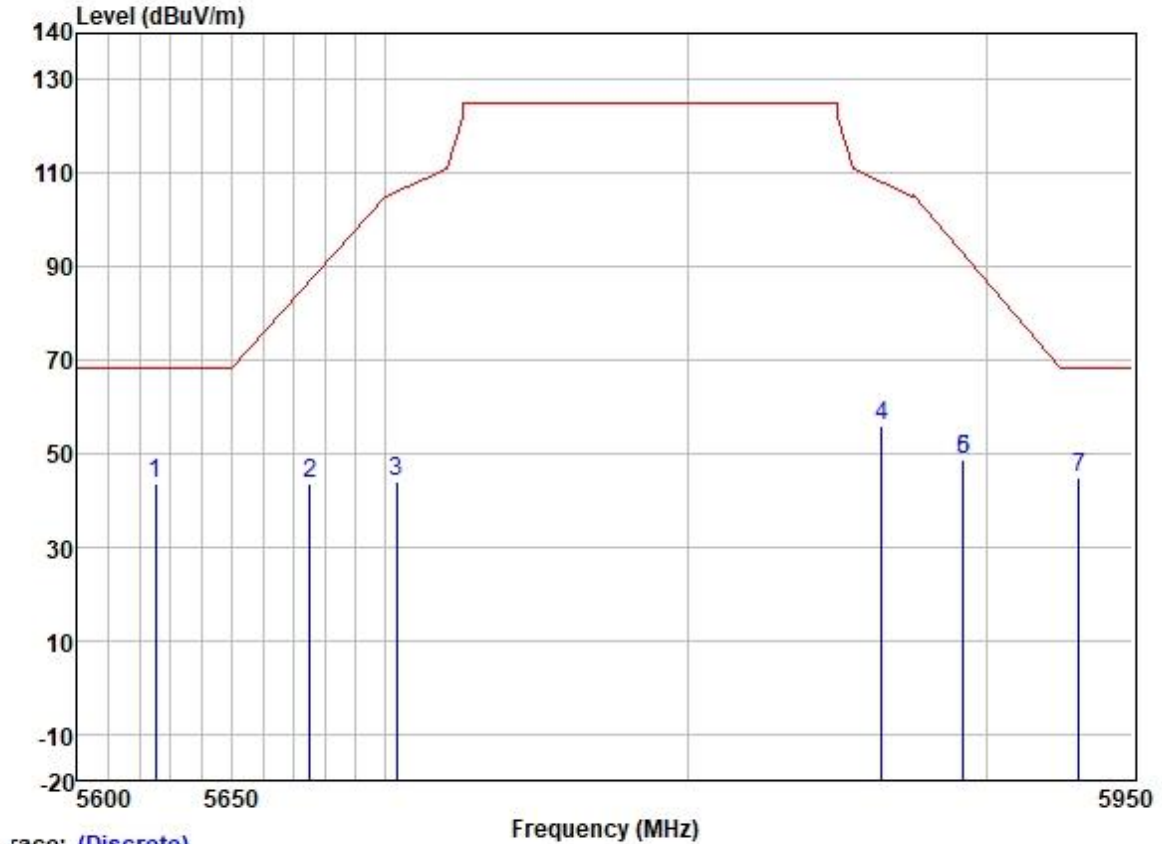
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5633.028	42.38	31.93	5.69	36.89	43.11	68.20	-25.09	VERTICAL Peak
2	5674.502	42.86	31.99	5.73	36.89	43.69	86.37	-42.68	VERTICAL Peak
3	5712.124	42.54	32.04	5.76	36.89	43.45	108.60	-65.15	VERTICAL Peak
4	5860.856	55.22	32.27	5.91	36.90	56.50	109.16	-52.66	VERTICAL Peak
5	5888.993	46.00	32.29	5.92	36.90	47.31	94.86	-47.55	VERTICAL Peak
6	5935.589	43.17	32.34	5.95	36.90	44.56	68.20	-23.64	VERTICAL Peak



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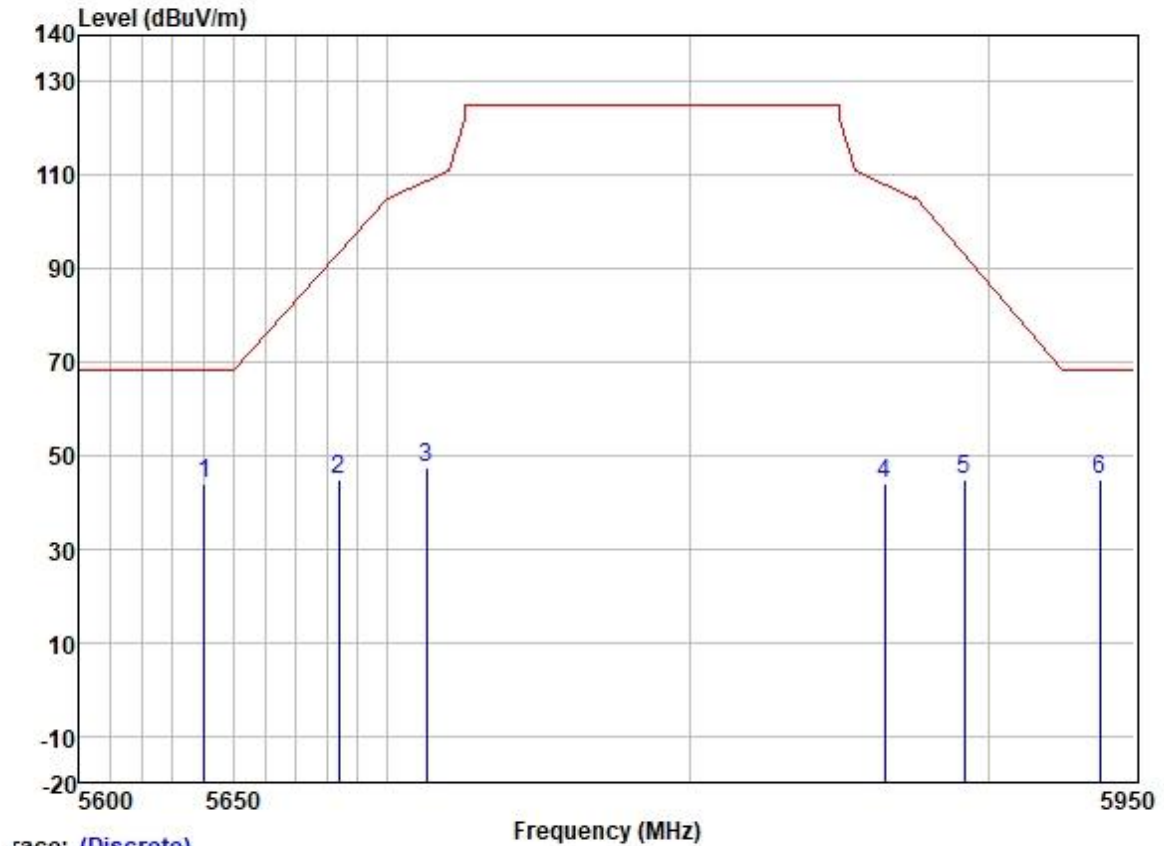
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	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	5625.179	42.79	31.93	5.69	36.89	43.52	68.20	-24.68	HORIZONTAL Peak
2	5675.190	42.90	31.99	5.73	36.89	43.73	86.88	-43.15	HORIZONTAL Peak
3	5703.473	42.96	32.01	5.75	36.89	43.83	106.17	-62.34	HORIZONTAL Peak
4	5864.766	54.46	32.27	5.91	36.90	55.74	108.06	-52.32	HORIZONTAL Peak
5	5892.207	47.50	32.31	5.93	36.90	48.84	92.48	-43.64	HORIZONTAL Peak
6	5892.207	47.50	32.31	5.93	36.90	48.84	92.48	-43.64	HORIZONTAL Peak
7	5931.632	43.47	32.34	5.95	36.90	44.86	68.20	-23.34	HORIZONTAL Peak

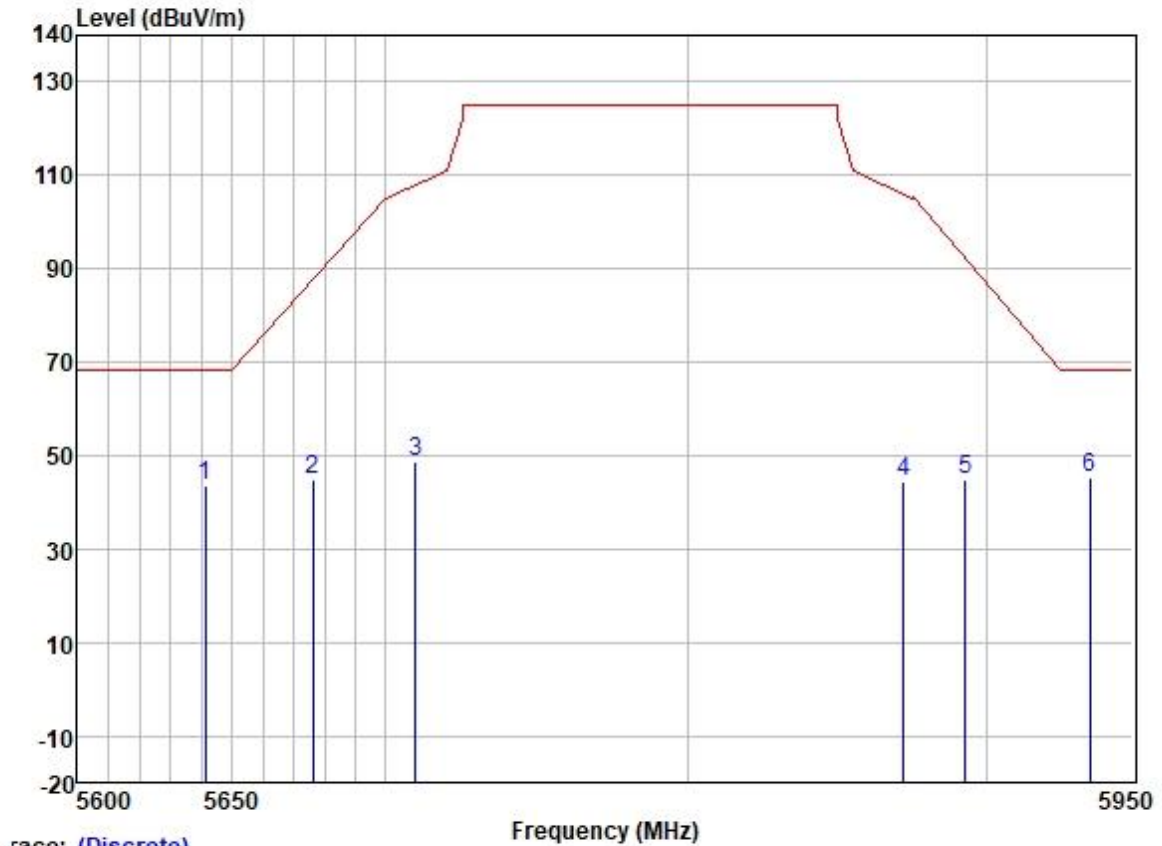
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5640.205	43.27	31.95	5.70	36.89	44.03	68.20	-24.17	VERTICAL Peak
2	5684.143	44.08	31.99	5.73	36.89	44.91	93.50	-48.59	VERTICAL Peak
3	5712.816	46.71	32.04	5.76	36.89	47.62	108.79	-61.17	VERTICAL Peak
4	5865.122	42.92	32.27	5.91	36.90	44.20	107.96	-63.76	VERTICAL Peak
5	5891.850	43.53	32.31	5.93	36.90	44.87	92.74	-47.87	VERTICAL Peak
6	5938.108	43.47	32.34	5.95	36.90	44.86	68.20	-23.34	VERTICAL Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

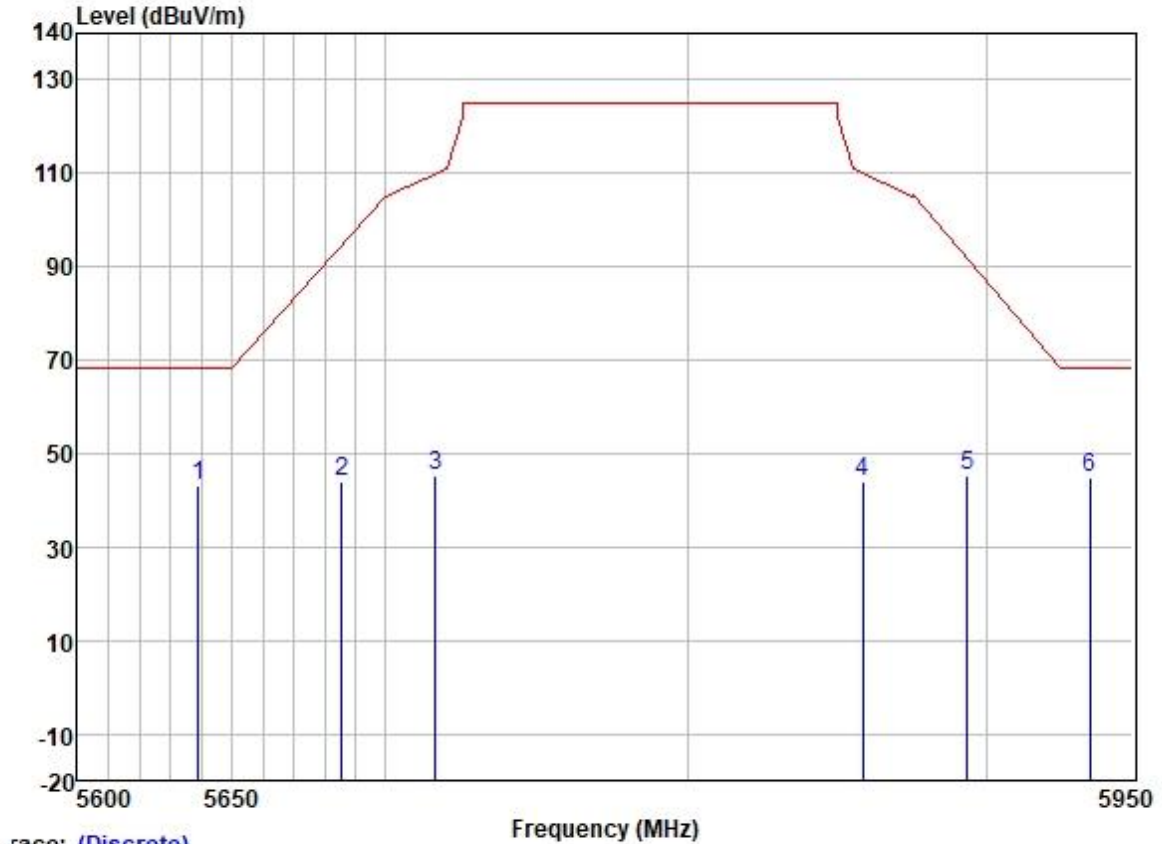
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5641.230	42.83	31.95	5.70	36.89	43.59	68.20	-24.61	HORIZONTAL Peak
2	5676.222	43.82	31.99	5.73	36.89	44.65	87.65	-43.00	HORIZONTAL Peak
3	5709.700	47.87	32.04	5.76	36.89	48.78	107.92	-59.14	HORIZONTAL Peak
4	5872.237	43.34	32.27	5.91	36.90	44.62	105.97	-61.35	HORIZONTAL Peak
5	5892.921	43.50	32.31	5.93	36.90	44.84	91.95	-47.11	HORIZONTAL Peak
6	5935.229	43.86	32.34	5.95	36.90	45.25	68.20	-22.95	HORIZONTAL Peak



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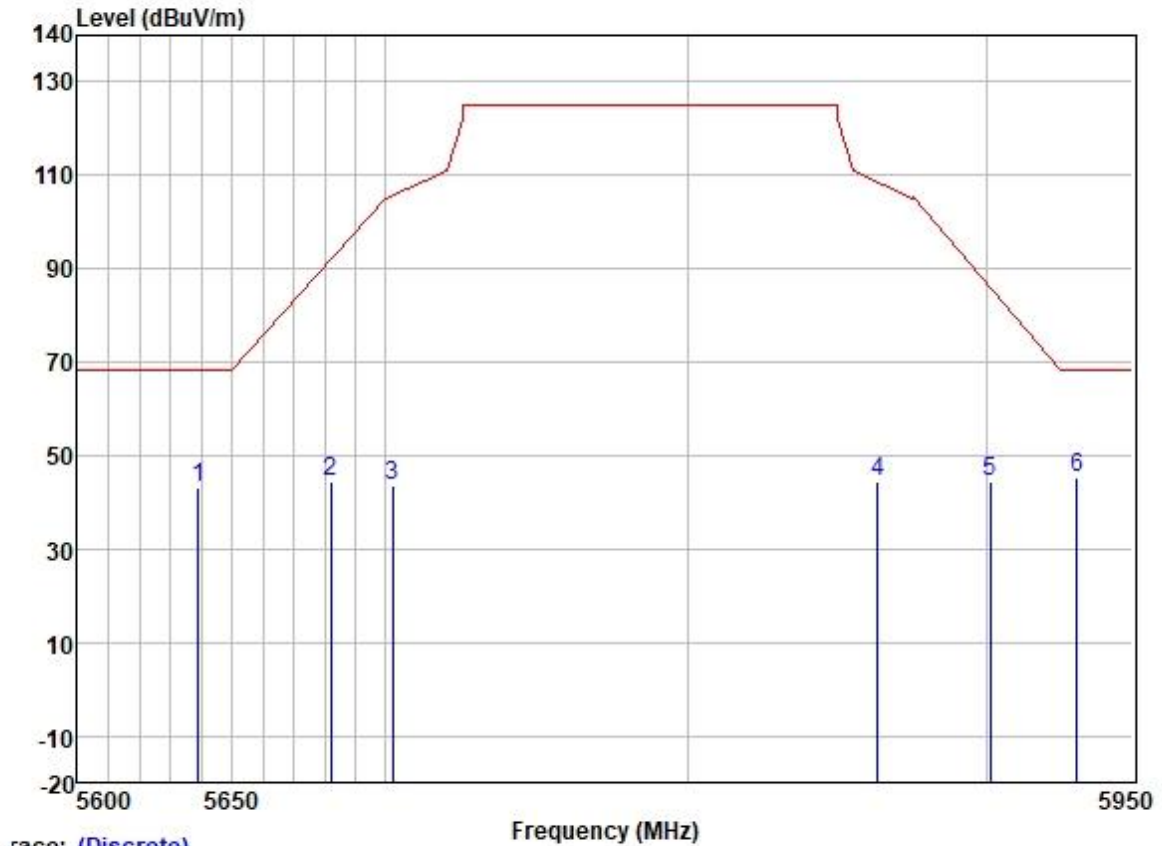
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5639.179	42.30	31.93	5.69	36.89	43.03	68.20	-25.17	VERTICAL	Peak
2	5685.521	43.08	31.99	5.73	36.89	43.91	94.52	-50.61	VERTICAL	Peak
3	5716.281	44.57	32.04	5.76	36.89	45.48	109.76	-64.28	VERTICAL	Peak
4	5858.370	42.71	32.27	5.91	36.90	43.99	109.86	-65.87	VERTICAL	Peak
5	5893.636	43.81	32.31	5.93	36.90	45.15	91.42	-46.27	VERTICAL	Peak
6	5935.229	43.55	32.34	5.95	36.90	44.94	68.20	-23.26	VERTICAL	Peak

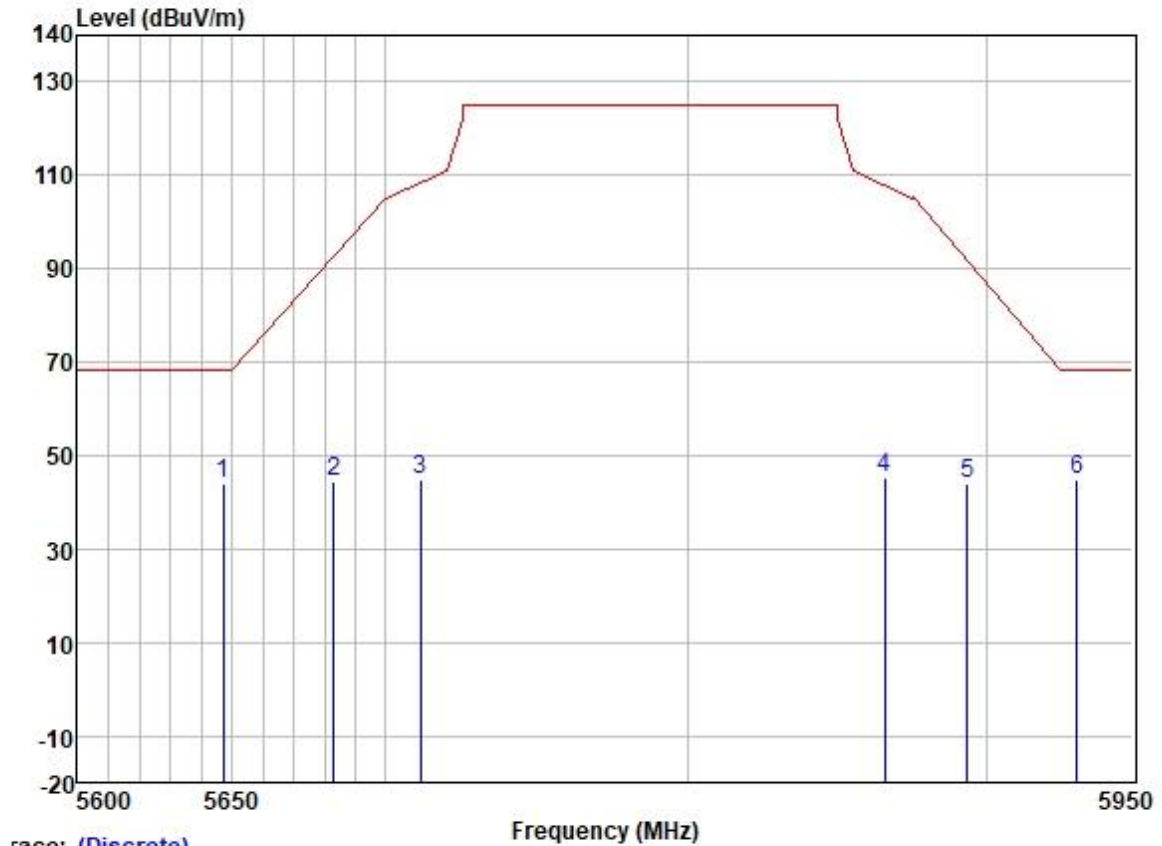
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	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	5639.179	42.50	31.93	5.69	36.89	43.23	68.20	-24.97	HORIZONTAL Peak
2	5682.075	43.81	31.99	5.73	36.89	44.64	91.97	-47.33	HORIZONTAL Peak
3	5702.436	42.70	32.01	5.75	36.89	43.57	105.88	-62.31	HORIZONTAL Peak
4	5863.344	43.35	32.27	5.91	36.90	44.63	108.46	-63.83	HORIZONTAL Peak
5	5901.502	43.14	32.31	5.93	36.90	44.48	85.58	-41.10	HORIZONTAL Peak
6	5930.913	43.94	32.34	5.95	36.90	45.33	68.20	-22.87	HORIZONTAL Peak

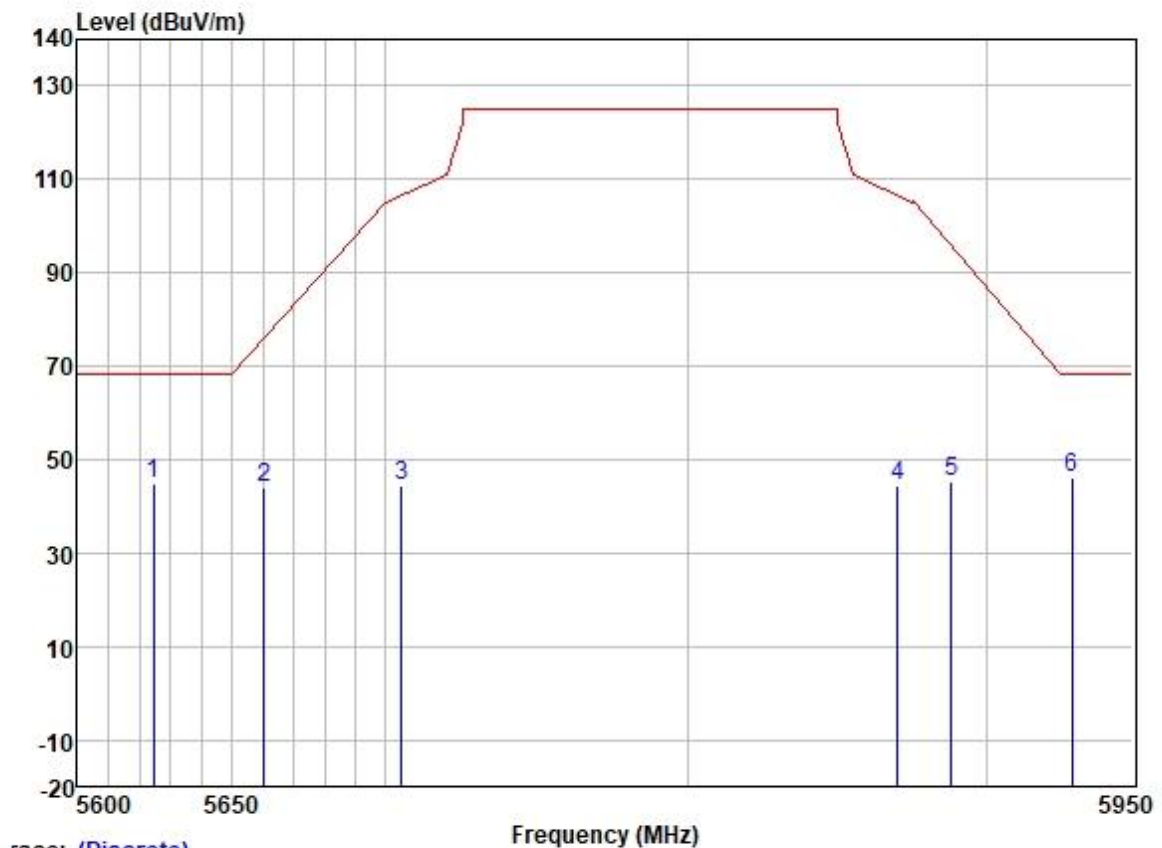
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	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	5647.047	43.10	31.95	5.70	36.89	43.86	68.20	-24.34	VERTICAL
2	5683.109	43.72	31.99	5.73	36.89	44.55	92.74	-48.19	VERTICAL
3	5711.431	44.07	32.04	5.76	36.89	44.98	108.40	-63.42	VERTICAL
4	5865.833	44.19	32.27	5.91	36.90	45.47	107.76	-62.29	VERTICAL
5	5893.636	42.69	32.31	5.93	36.90	44.03	91.42	-47.39	VERTICAL
6	5930.913	43.50	32.34	5.95	36.90	44.89	68.20	-23.31	VERTICAL

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	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	5624.497	43.93	31.93	5.69	36.89	44.66	68.20	-23.54	HORIZONTAL Peak
2	5660.415	43.33	31.97	5.72	36.89	44.13	75.93	-31.80	HORIZONTAL Peak
3	5705.202	43.38	32.01	5.75	36.89	44.25	106.66	-62.41	HORIZONTAL Peak
4	5870.102	43.01	32.27	5.91	36.90	44.29	106.57	-62.28	HORIZONTAL Peak
5	5888.279	43.92	32.29	5.92	36.90	45.23	95.39	-50.16	HORIZONTAL Peak
6	5929.115	44.96	32.34	5.95	36.90	46.35	68.20	-21.85	HORIZONTAL Peak

7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)
Test Method: KDB 789033 II A 3

7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 22.8 °C Humidity: 53.3 % RH Atmospheric Pressure: 1022 mbar

7.10.2 Test Mode Description

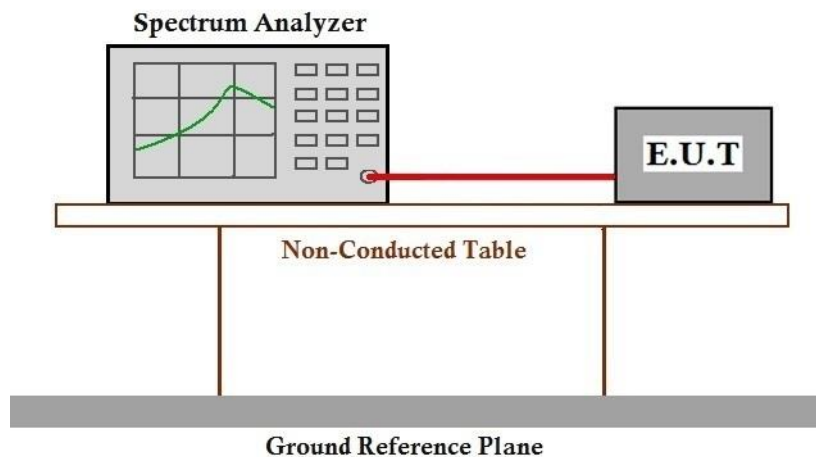
Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(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	09	TX mode (U-NII-2A)_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 802.11ac(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	10	TX mode (U-NII-2C)_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 802.11ac(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	11	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 802.11ac(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

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.

7.11 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 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
960-1000	500	3

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 61.3 % RH Atmospheric Pressure: 1018 mbar

7.11.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 08 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 09 TX mode (U-NII-2A)_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 10 TX mode (U-NII-2C)_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.

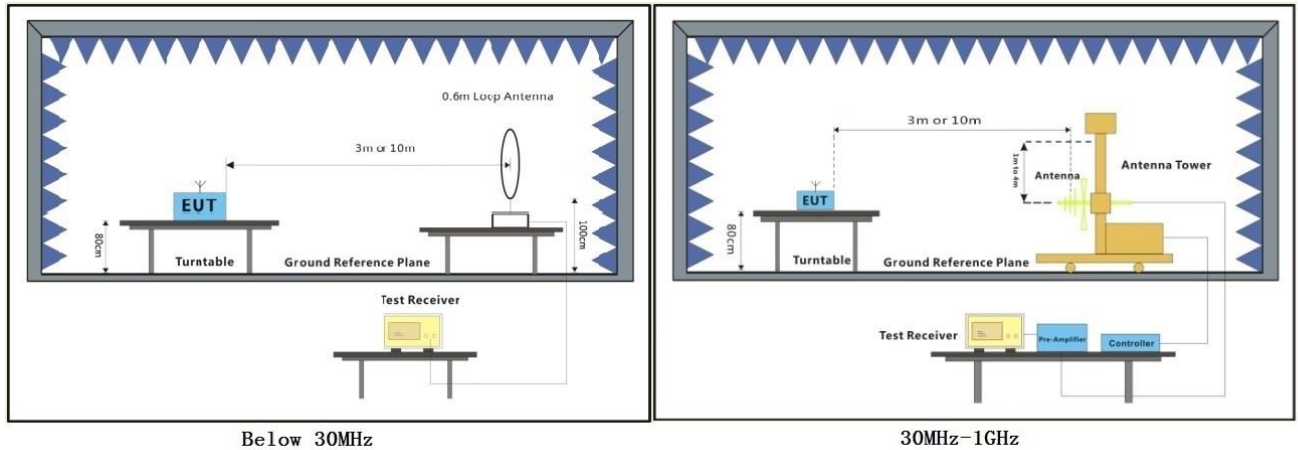


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Pre-scan 11

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



7.11.4 Measurement Procedure and Data

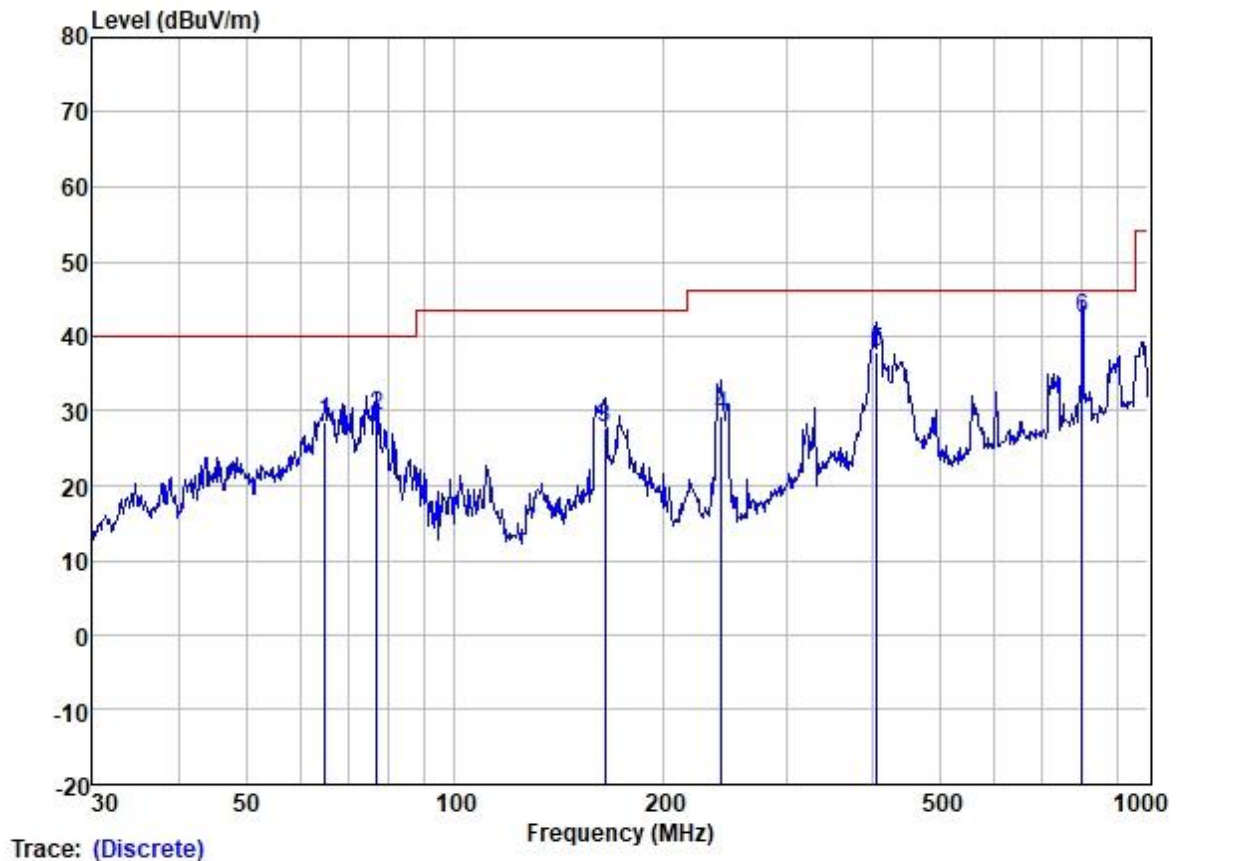
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



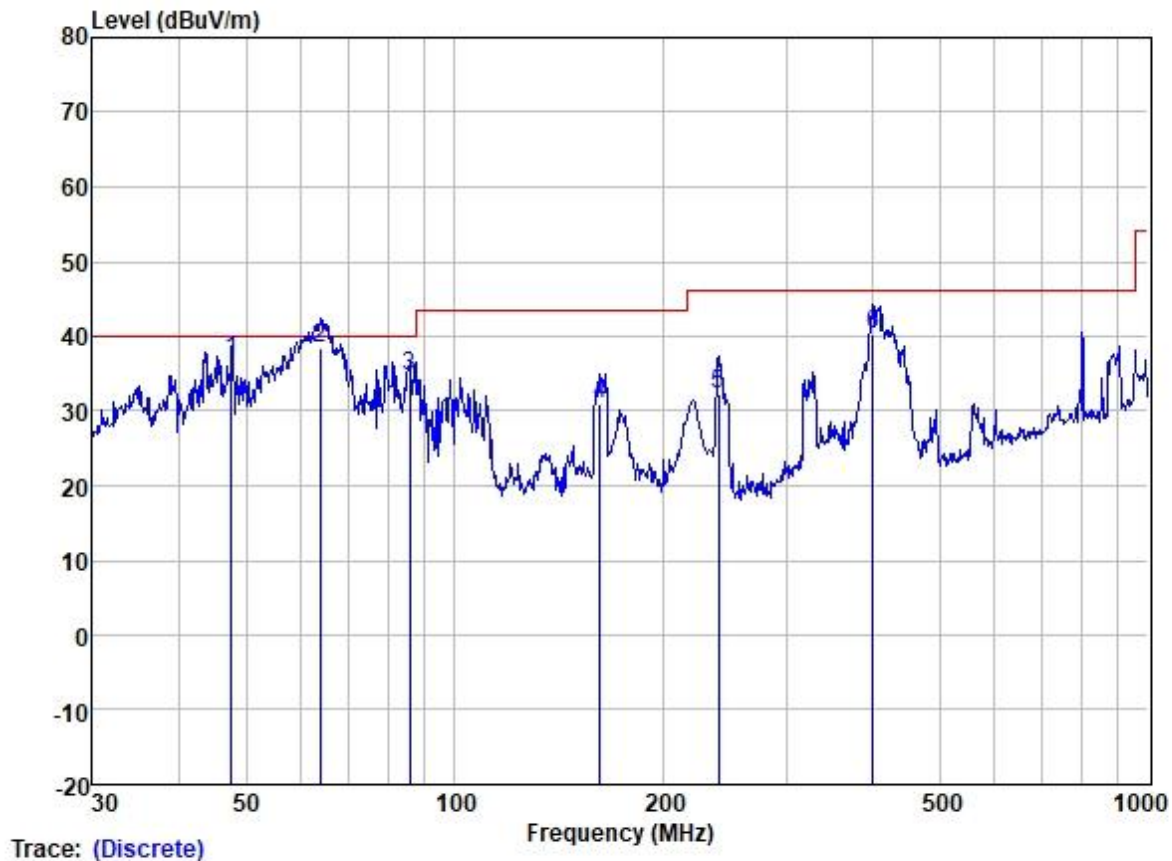
Test Mode: 10; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	64.89	41.61	12.75	1.35	27.15	28.56	40.00	-11.44	HORIZONTAL	QP
2	77.05	45.01	9.85	1.46	27.10	29.22	40.00	-10.78	HORIZONTAL	QP
3	164.33	38.57	13.48	2.37	26.79	27.63	43.50	-15.87	HORIZONTAL	QP
4	242.53	41.10	11.95	2.84	26.65	29.24	46.00	-16.76	HORIZONTAL	QP
5	406.09	45.46	15.82	3.95	27.36	37.87	46.00	-8.13	HORIZONTAL	QP
6	801.79	41.75	22.62	6.17	28.03	42.51	46.00	-3.49	HORIZONTAL	QP

Test Mode: 10; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	47.66	48.83	13.99	1.13	27.17	36.78	40.00	-3.22	VERTICAL	QP
2	63.98	51.20	12.90	1.32	27.15	38.27	40.00	-1.73	VERTICAL	QP
3	85.90	52.57	7.70	1.55	27.09	34.73	40.00	-5.27	VERTICAL	QP
4	162.04	41.88	13.60	2.34	26.79	31.03	43.50	-12.47	VERTICAL	QP
5	239.99	44.23	11.90	2.81	26.66	32.28	46.00	-13.72	VERTICAL	QP
6	400.43	48.01	15.70	3.93	27.33	40.31	46.00	-5.69	VERTICAL	QP

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR211102137105

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2111021371HS

10 Appendix

10.1 Duty Cycle

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.172	0.275	62.55	2.04	0.09
		5200	0.172	0.275	62.55	2.04	0.08
		5240	0.172	0.274	62.77	2.02	0.14
		5260	0.172	0.274	62.77	2.02	0.13
		5300	0.172	0.275	62.55	2.04	0.12
		5320	0.175	0.274	63.87	1.95	0.04
		5500	0.175	0.275	63.64	1.96	0.04
		5580	0.172	0.274	62.77	2.02	0.12
		5700	0.175	0.274	63.87	1.95	0.04
		5745	0.173	0.275	62.91	2.01	0.06
		5785	0.175	0.275	63.64	1.96	0.08
		5825	0.173	0.275	62.91	2.01	0.13
802.11n (HT20)	MIMO	5180	0.160	0.263	60.84	2.16	0.14
		5200	0.162	0.263	61.60	2.10	0.06
		5240	0.161	0.263	61.22	2.13	0.14
		5260	0.161	0.263	61.22	2.13	0.18
		5300	0.166	0.263	63.12	2.00	0.04
		5320	0.161	0.263	61.22	2.13	0.14
		5500	0.160	0.263	60.84	2.16	0.12
		5580	0.167	0.263	63.50	1.97	0.04
		5700	0.161	0.263	61.22	2.13	0.15
		5745	0.160	0.263	60.84	2.16	0.18
802.11n (HT40)	MIMO	5190	0.100	0.200	50.00	3.01	0.05
		5230	0.100	0.199	50.25	2.99	0.08
		5270	0.097	0.199	48.74	3.12	0.10
		5310	0.098	0.199	49.25	3.08	0.07
		5510	0.100	0.199	50.25	2.99	0.07
		5550	0.104	0.199	52.26	2.82	0.08
		5670	0.097	0.199	48.74	3.12	0.17
		5755	0.097	0.199	48.74	3.12	0.13
802.11ac (VHT20)	MIMO	5795	0.099	0.199	49.75	3.03	0.17
		5180	1.932	1.952	98.98	0.04	0.03
		5200	1.932	1.951	99.03	0.04	0.03
		5240	1.932	1.952	98.98	0.04	0.03



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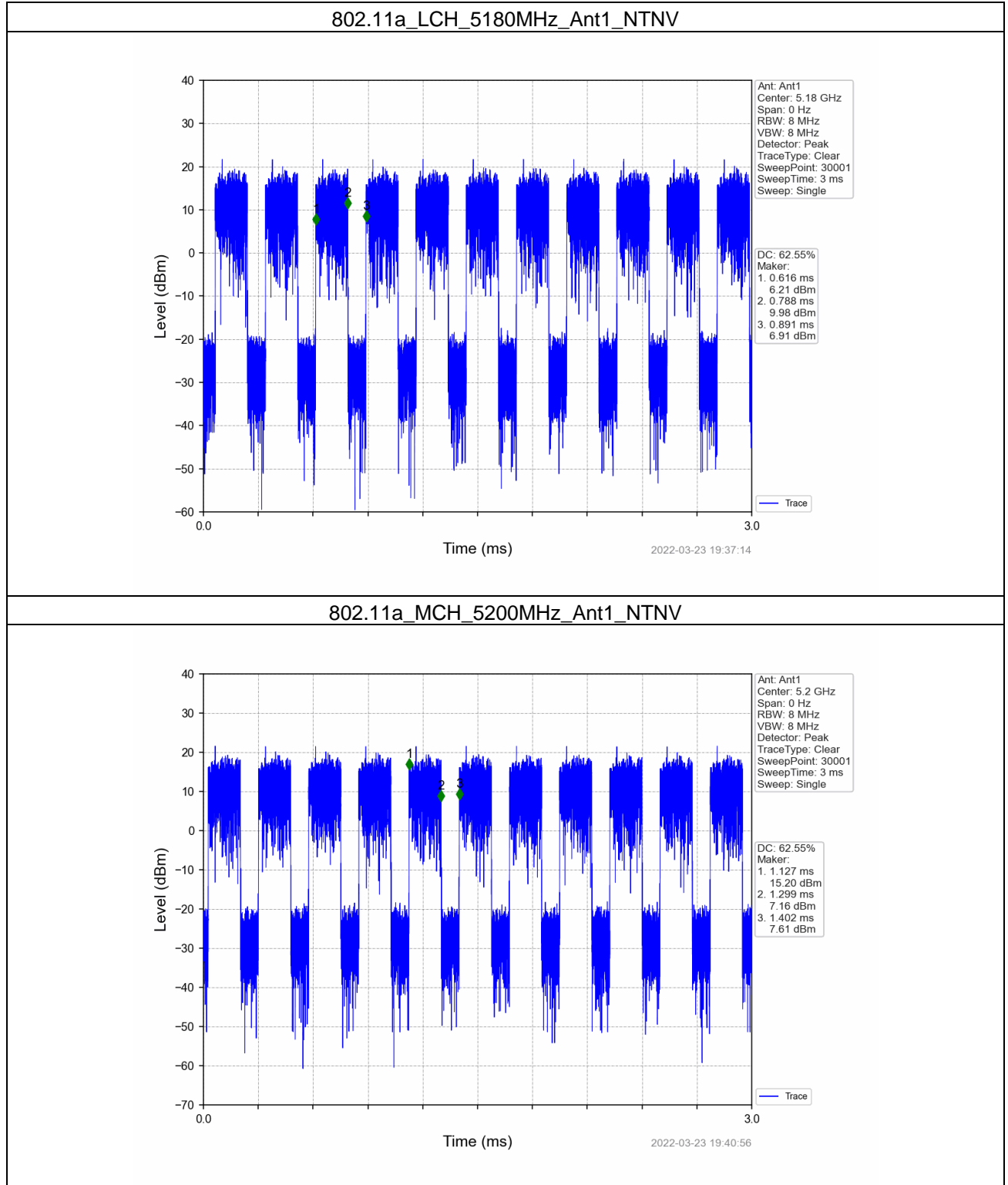
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Guangzhou branch, EMC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

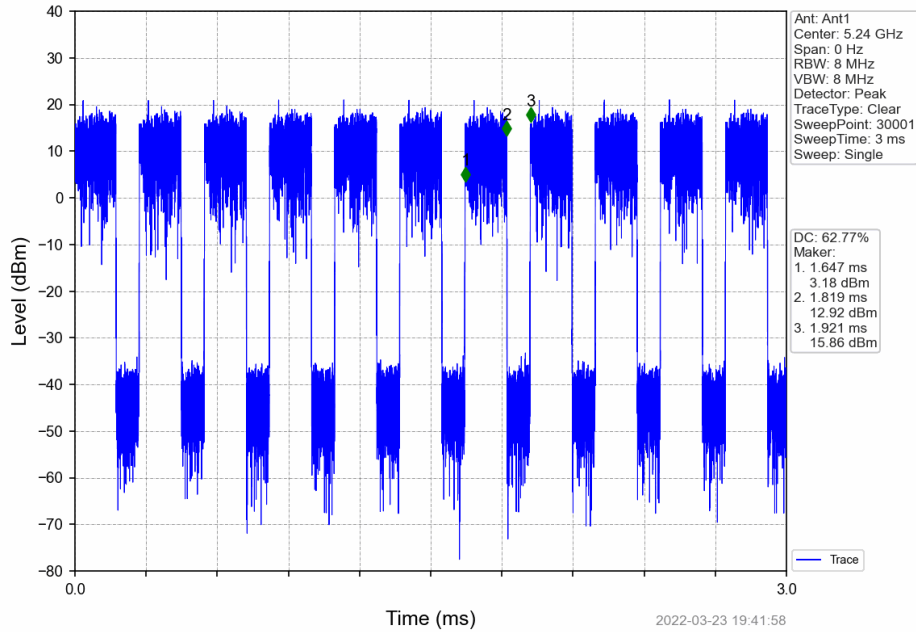
		5260	1.932	1.952	98.98	0.04	0.03
		5300	1.932	1.952	98.98	0.04	0.03
		5320	1.932	1.952	98.98	0.04	0.03
		5500	1.932	1.952	98.98	0.04	0.03
		5580	1.932	1.951	99.03	0.04	0.03
		5700	1.932	2.258	85.56	0.68	13.46
		5745	1.932	1.951	99.03	0.04	0.03
		5785	1.932	1.952	98.98	0.04	0.03
		5825	1.932	1.952	98.98	0.04	0.03
802.11ac (VHT40)	MIMO	5190	1.544	1.564	98.72	0.06	0.03
		5230	1.544	1.563	98.78	0.05	0.03
		5270	1.544	1.564	98.72	0.06	0.03
		5310	1.544	1.564	98.72	0.06	0.03
		5510	1.544	1.564	98.72	0.06	0.03
		5550	1.543	1.562	98.78	0.05	0.03
		5670	1.544	1.563	98.78	0.05	0.03
		5755	1.544	1.564	98.72	0.06	0.03
		5795	1.544	1.564	98.72	0.06	0.03
802.11ac (VHT80)	MIMO	5210	2.239	2.259	99.11	0.04	0.04
		5290	2.239	2.259	99.11	0.04	0.04
		5530	2.240	2.260	99.12	0.04	0.04
		5775	2.240	2.260	99.12	0.04	0.04
Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.173	0.275	62.91	2.01	0.16
		5200	0.175	0.275	63.64	1.96	0.10
		5240	0.173	0.275	62.91	2.01	0.08
		5260	0.174	0.275	63.27	1.99	0.10
		5300	0.172	0.274	62.77	2.02	0.10
		5320	0.175	0.275	63.64	1.96	0.09
		5500	0.172	0.275	62.55	2.04	0.11
		5580	0.172	0.275	62.55	2.04	0.13
		5700	0.175	0.275	63.64	1.96	0.05
		5745	0.171	0.274	62.41	2.05	0.11
		5785	0.173	0.275	62.91	2.01	0.13
		5825	0.172	0.275	62.55	2.04	0.15
802.11n (HT20)	MIMO	5180	0.160	0.263	60.84	2.16	0.13
		5200	0.166	0.262	63.36	1.98	0.06
		5240	0.162	0.263	61.60	2.10	0.21
		5260	0.161	0.263	61.22	2.13	0.11
		5300	0.167	0.263	63.50	1.97	0.04
		5320	0.160	0.263	60.84	2.16	0.16
		5500	0.160	0.262	61.07	2.14	0.13
		5580	0.167	0.263	63.50	1.97	0.04
		5700	0.160	0.263	60.84	2.16	0.21

		5745	0.161	0.263	61.22	2.13	0.08
		5785	0.167	0.263	63.50	1.97	0.04
		5825	0.161	0.263	61.22	2.13	0.20
802.11n (HT40)	MIMO	5190	0.097	0.199	48.74	3.12	0.17
		5230	0.098	0.199	49.25	3.08	0.10
		5270	0.100	0.199	50.25	2.99	0.07
		5310	0.097	0.199	48.74	3.12	0.17
		5510	0.098	0.200	49.00	3.10	0.08
		5550	0.103	0.199	51.76	2.86	0.03
		5670	0.100	0.199	50.25	2.99	0.07
		5755	0.100	0.200	50.00	3.01	0.08
		5795	0.098	0.199	49.25	3.08	0.12
802.11ac (VHT20)	MIMO	5180	1.932	1.951	99.03	0.04	0.03
		5200	1.932	1.951	99.03	0.04	0.03
		5240	1.932	1.951	99.03	0.04	0.03
		5260	1.932	1.951	99.03	0.04	0.03
		5300	1.932	1.951	99.03	0.04	0.03
		5320	1.932	1.951	99.03	0.04	0.03
		5500	1.932	1.951	99.03	0.04	0.03
		5580	1.931	1.951	98.97	0.04	0.03
		5700	1.932	1.951	99.03	0.04	0.03
		5745	1.932	1.952	98.98	0.04	0.03
		5785	1.931	1.950	99.03	0.04	0.03
		5825	1.931	1.950	99.03	0.04	0.03
802.11ac (VHT40)	MIMO	5190	87.160	87.490	99.62	0.02	0.00
		5230	1.544	1.564	98.72	0.06	0.03
		5270	1.544	1.563	98.78	0.05	0.03
		5310	1.544	1.563	98.78	0.05	0.03
		5510	1.544	1.564	98.72	0.06	0.03
		5550	1.544	1.563	98.78	0.05	0.03
		5670	59.817	60.147	99.45	0.02	0.00
		5755	65.573	65.903	99.50	0.02	0.00
		5795	1.544	1.564	98.72	0.06	0.03
802.11ac (VHT80)	MIMO	5210	2.240	2.260	99.12	0.04	0.04
		5290	2.240	2.260	99.12	0.04	0.04
		5530	2.239	2.259	99.11	0.04	0.04
		5775	2.240	2.260	99.12	0.04	0.04

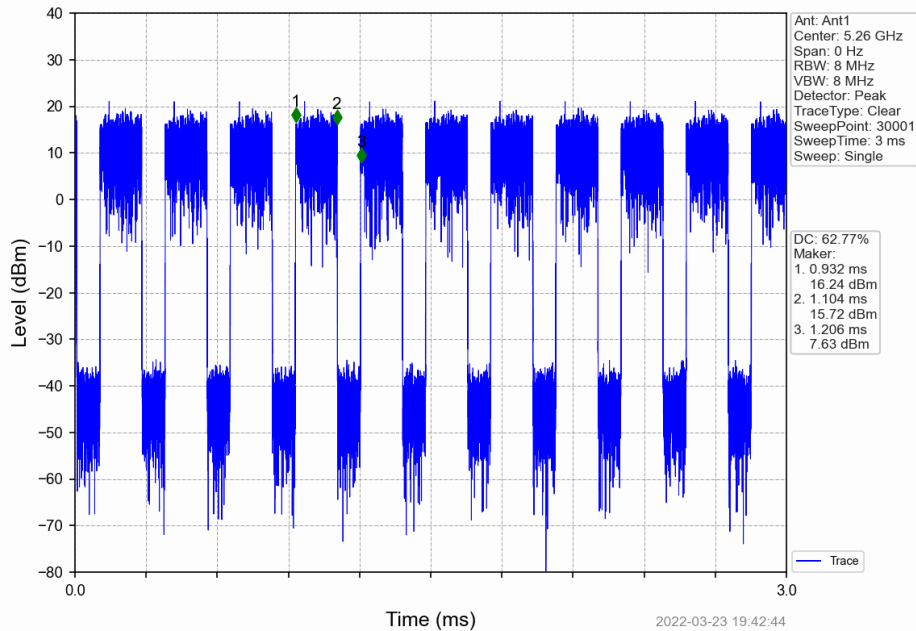
1.1.2 Test Graph



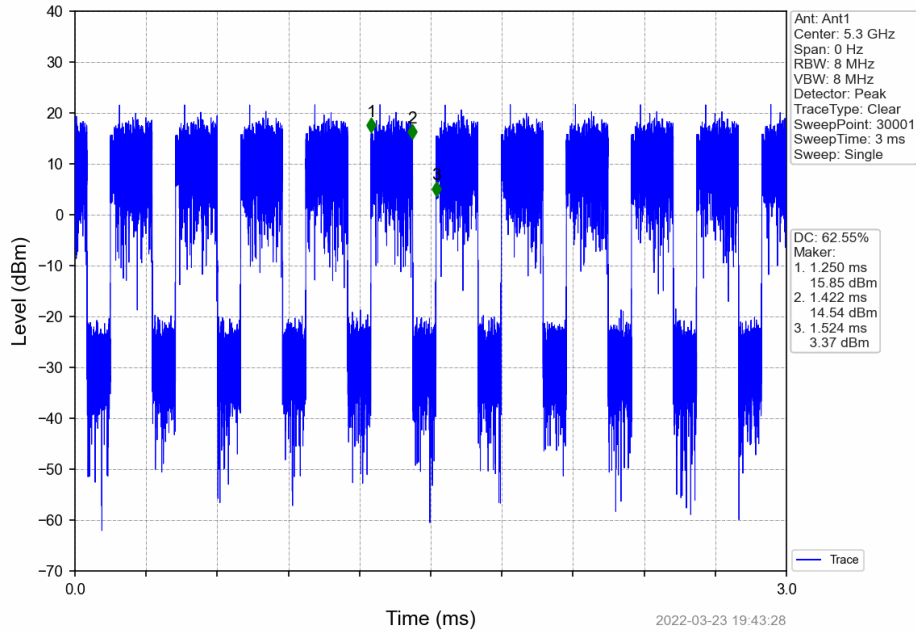
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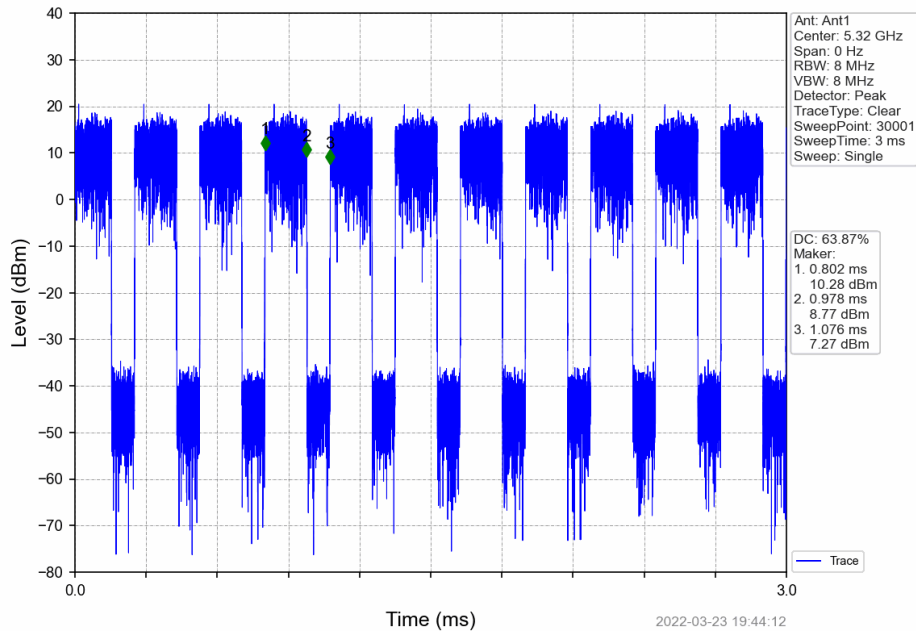
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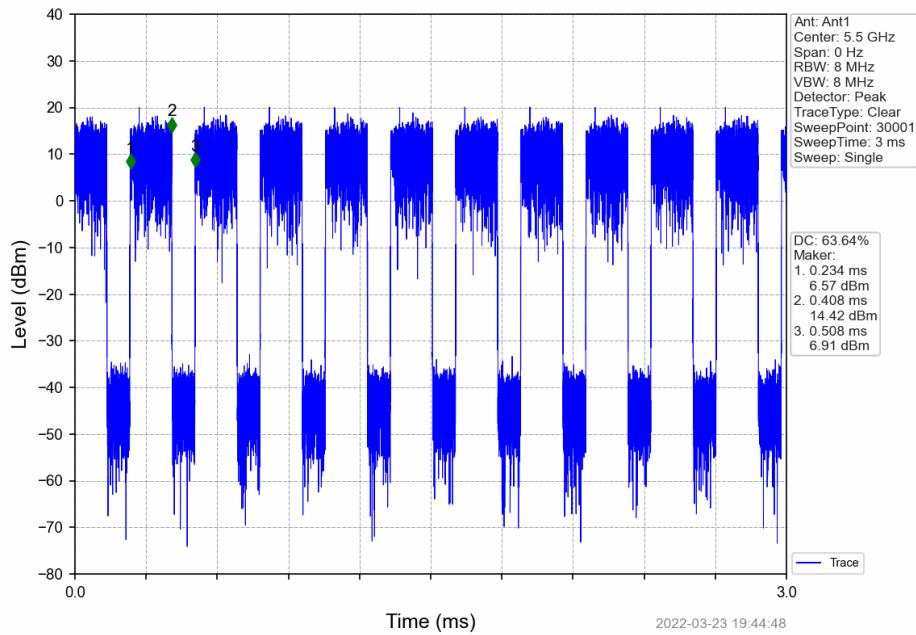


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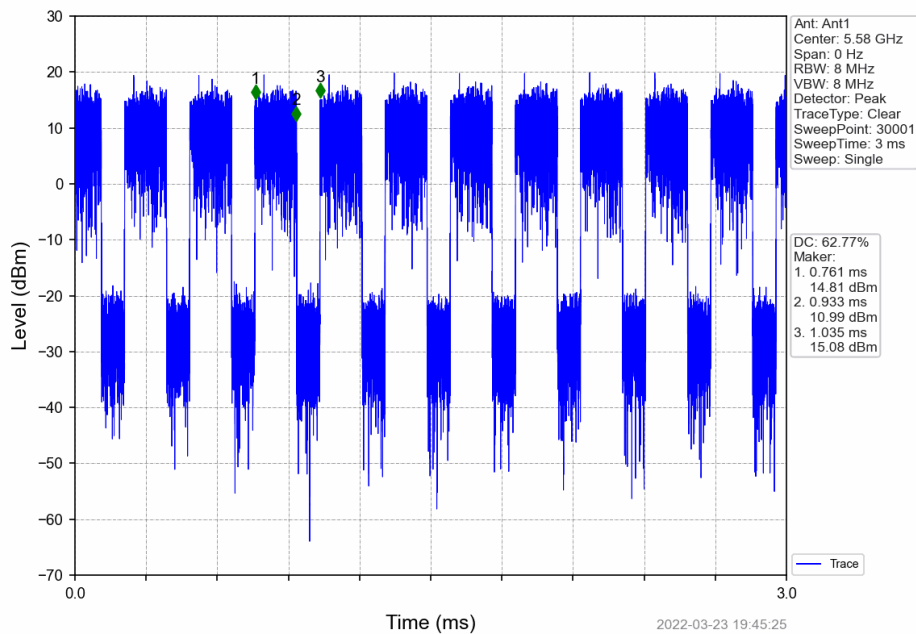


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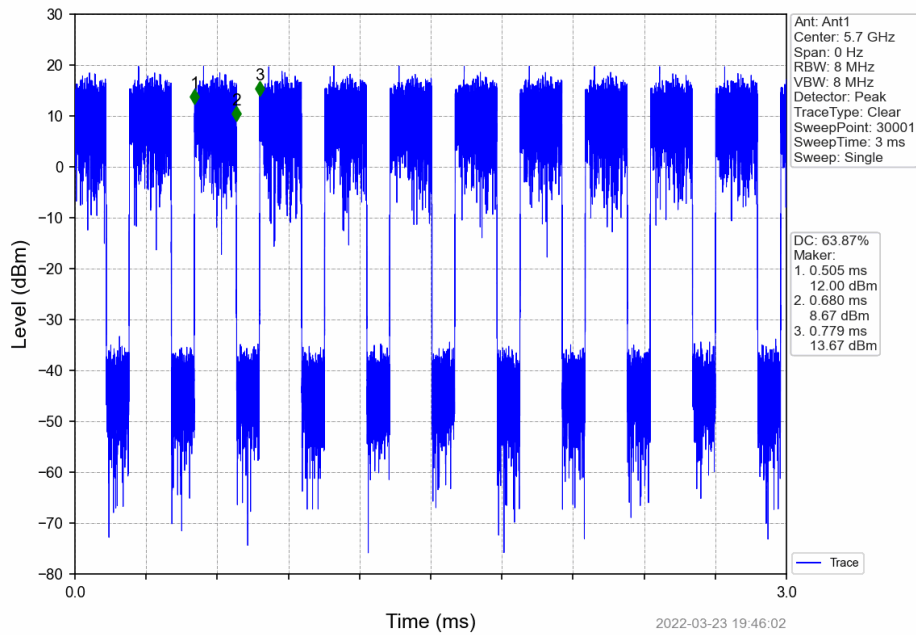
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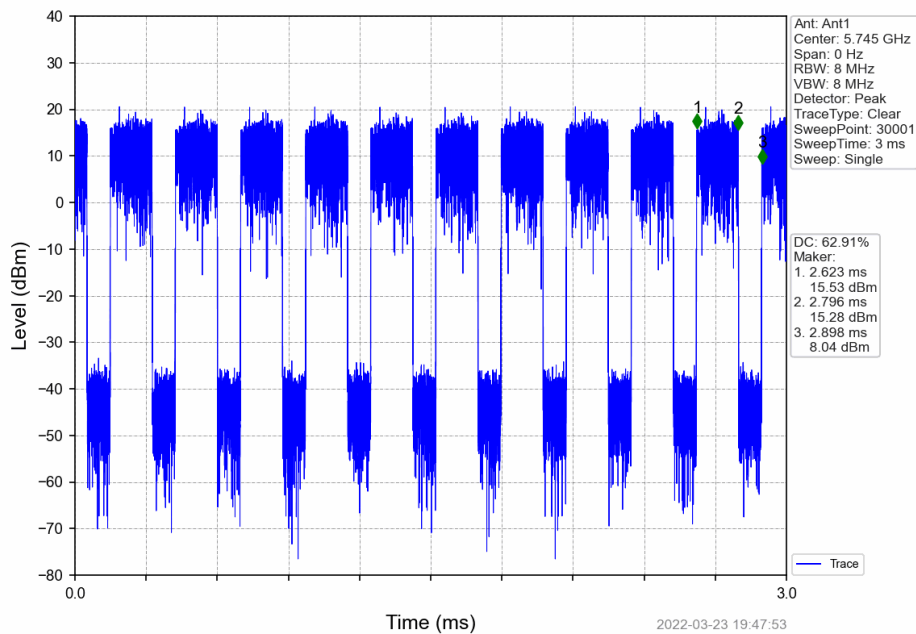
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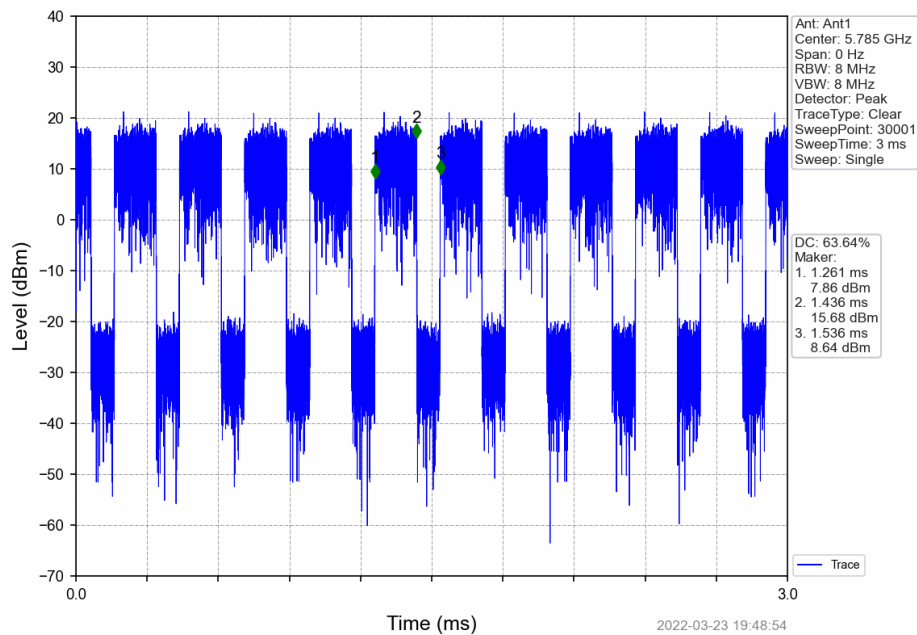
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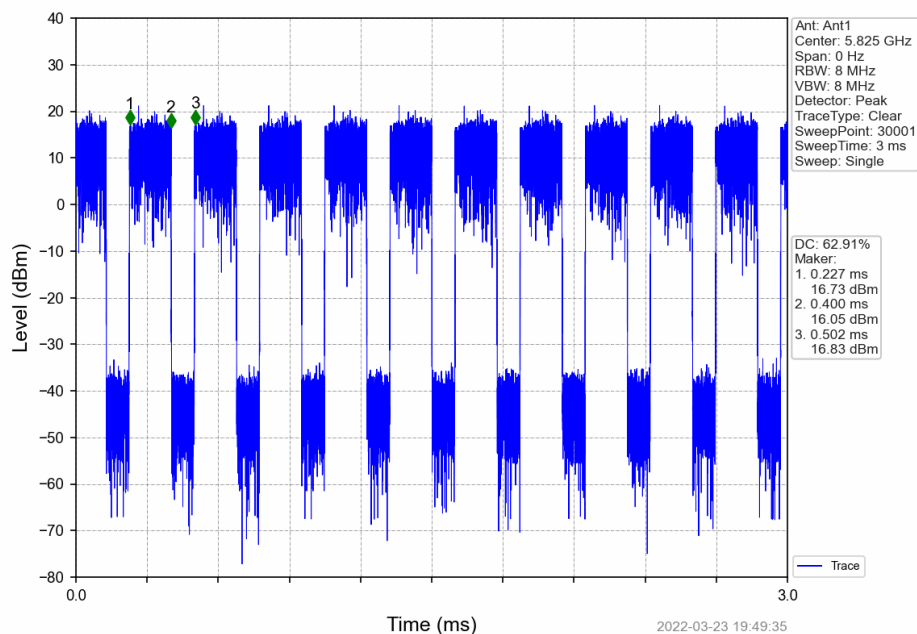
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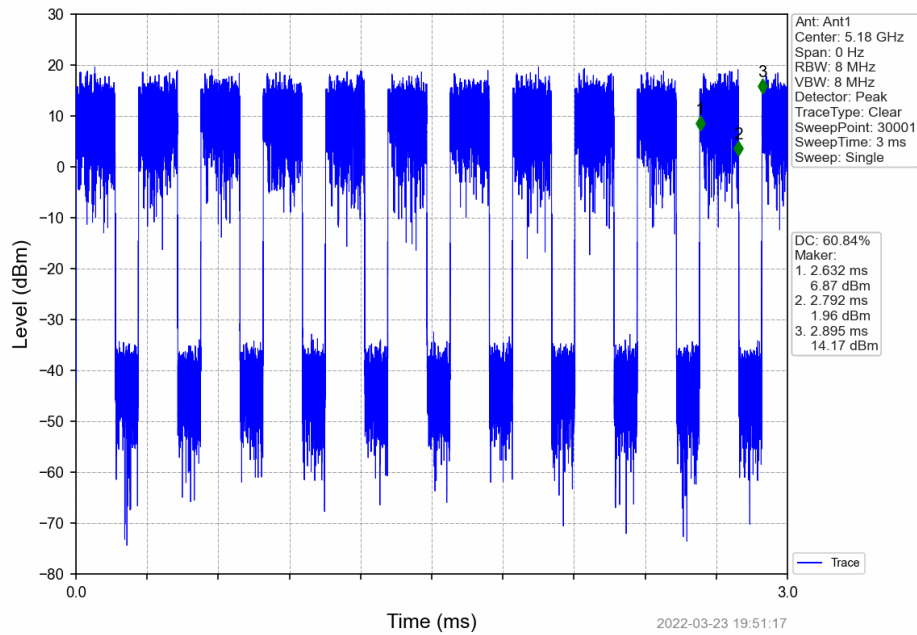
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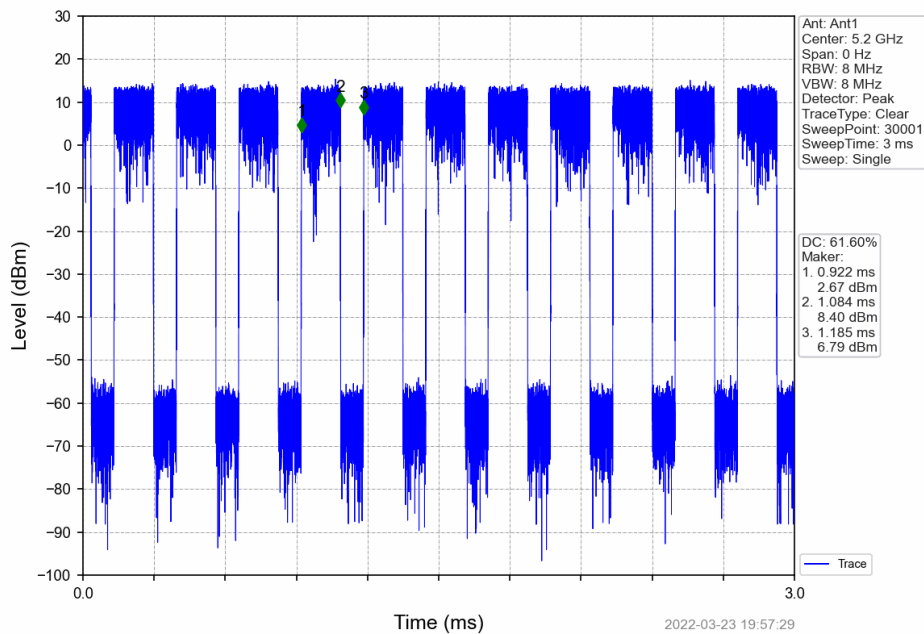
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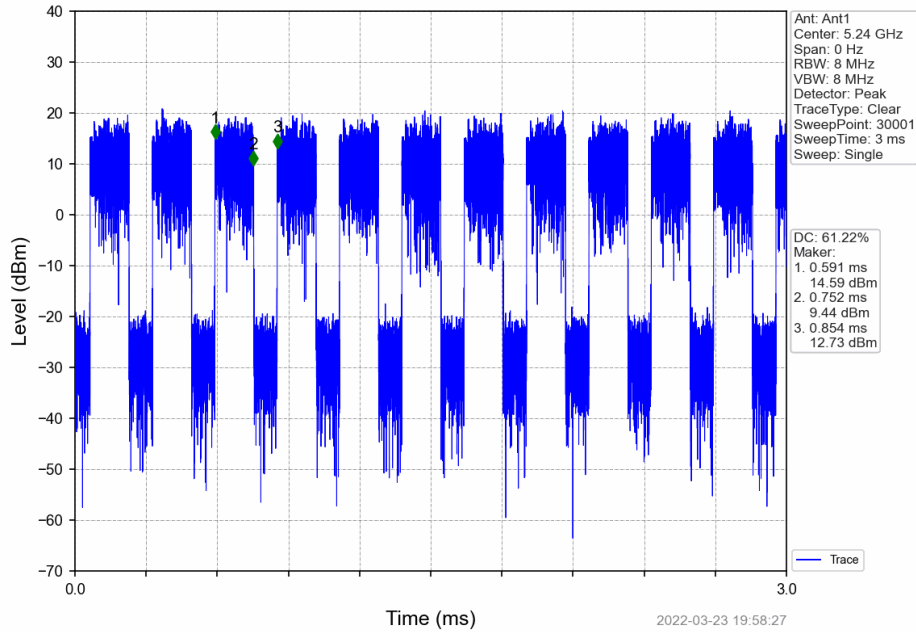


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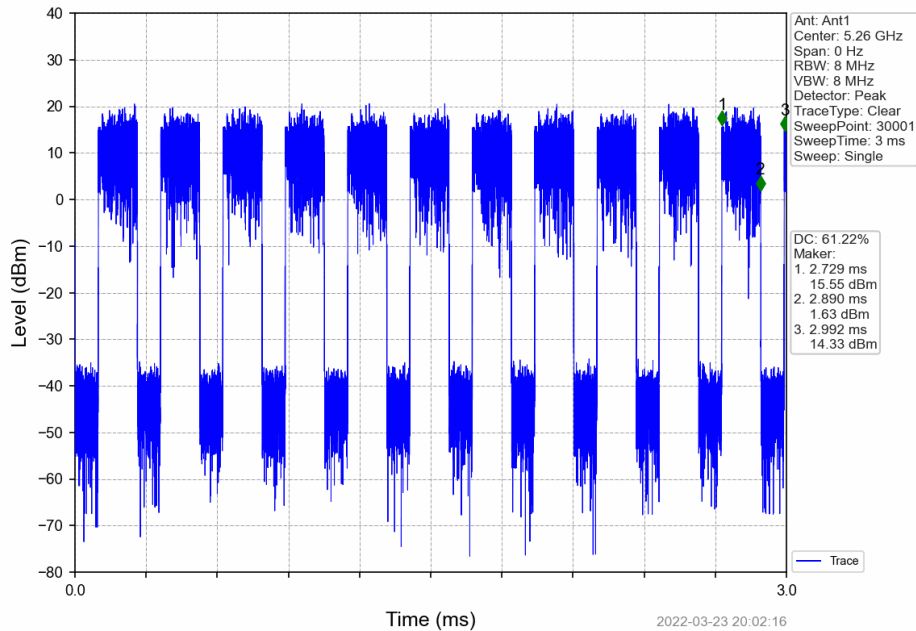


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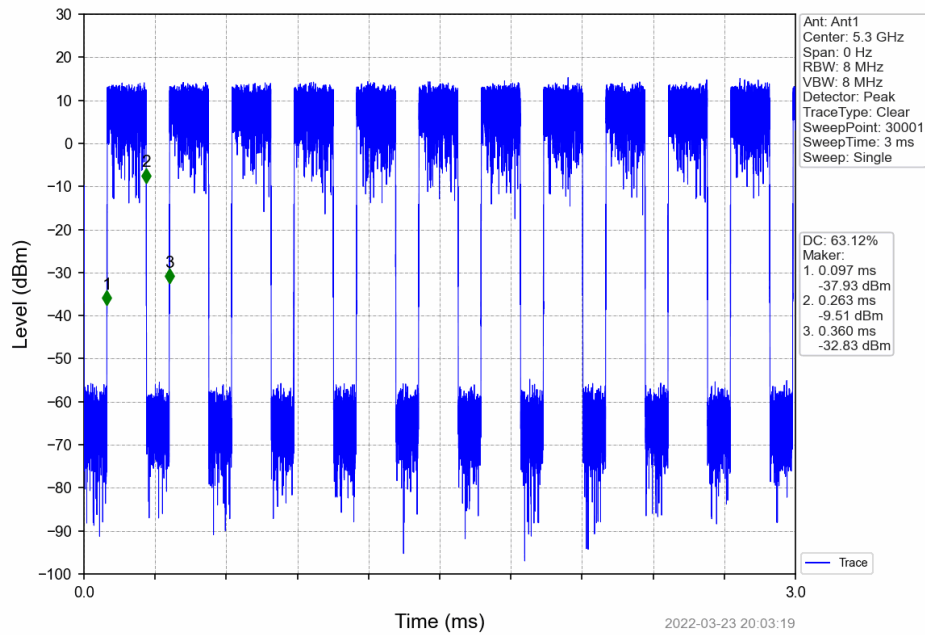


802.11n(HT20)_LCH_5260MHz_Ant1_NTNV

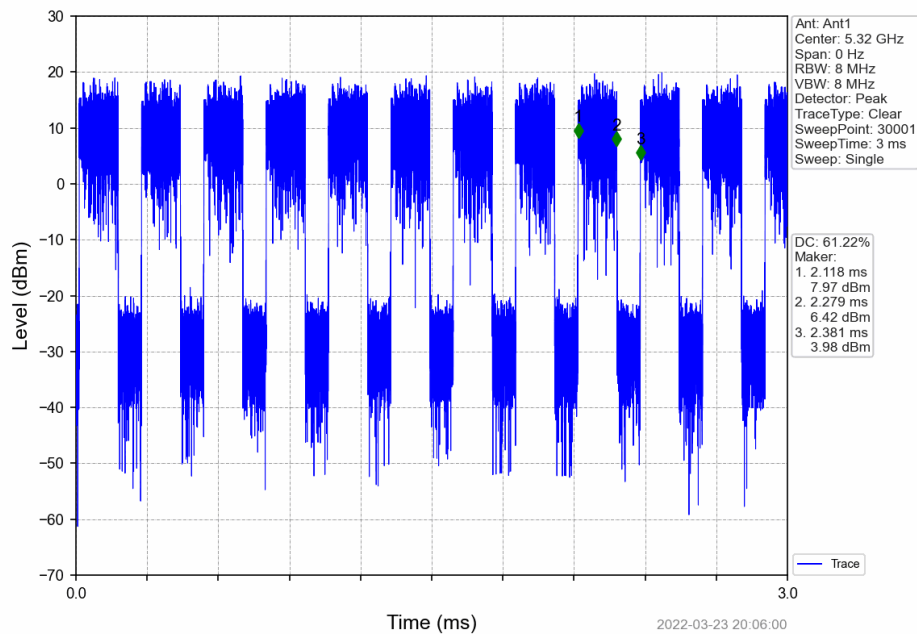


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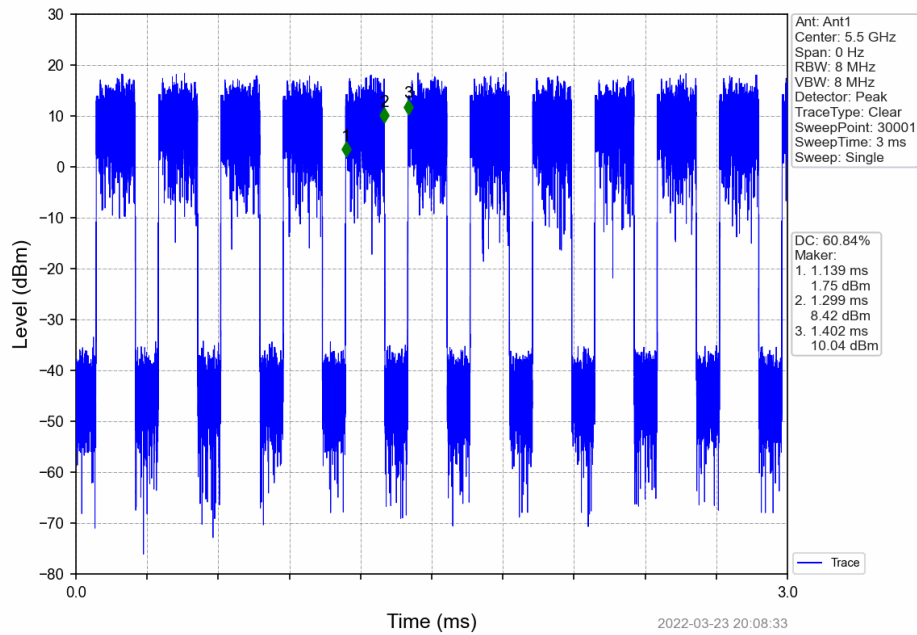
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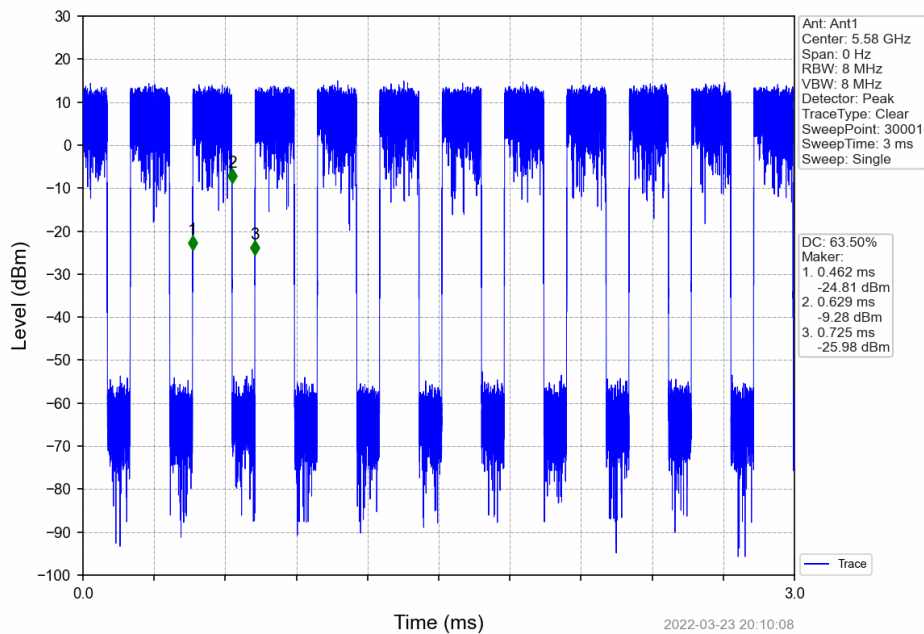
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



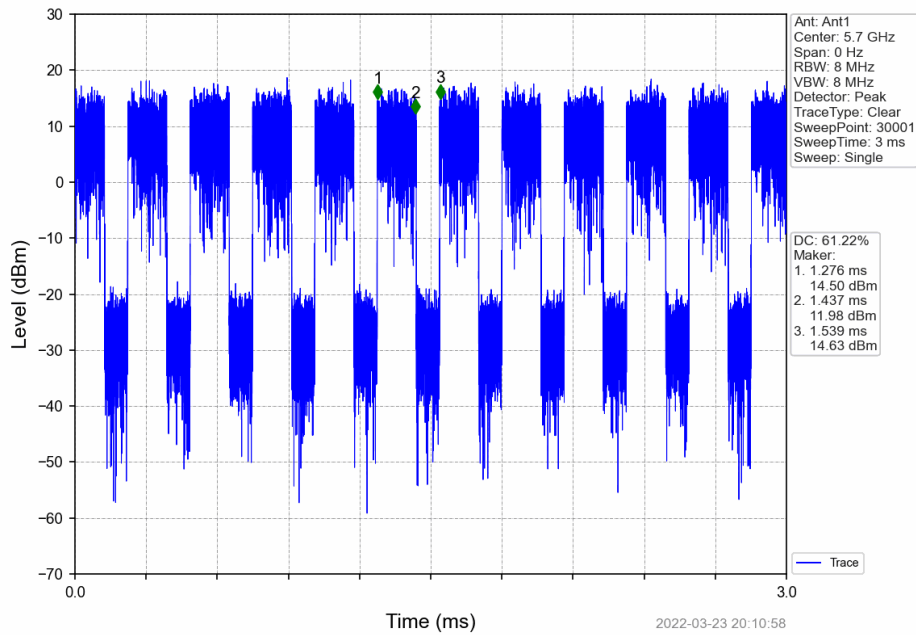
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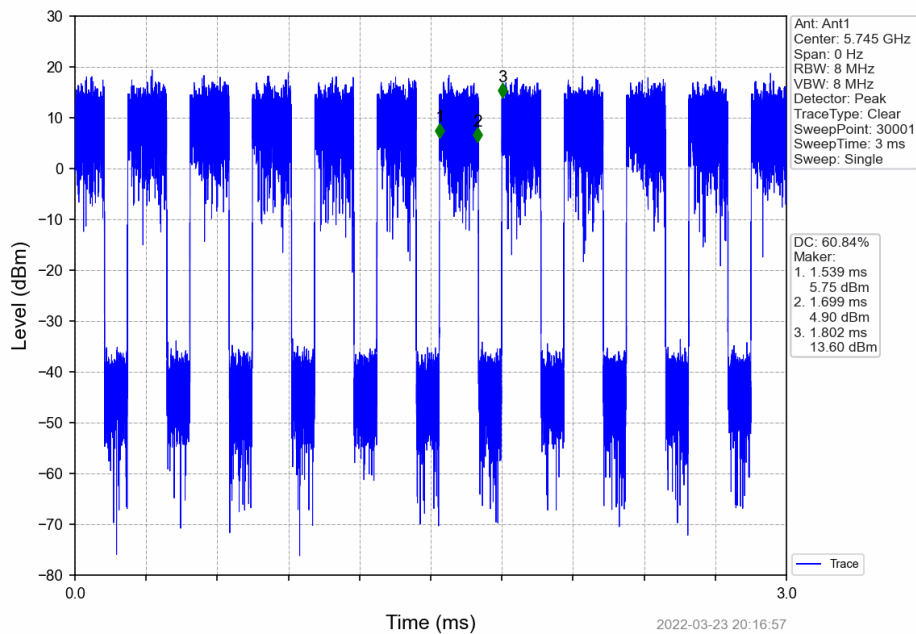
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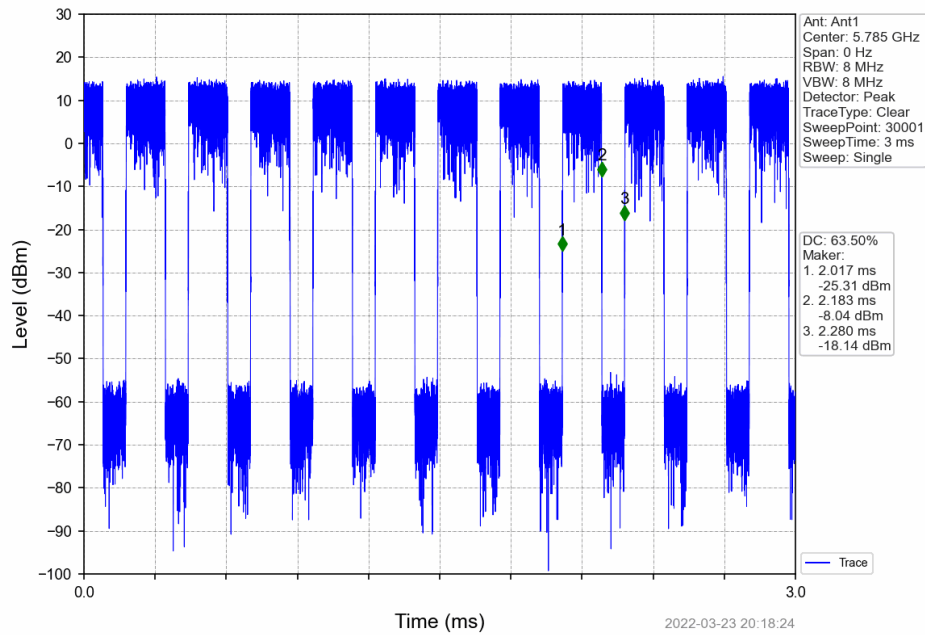
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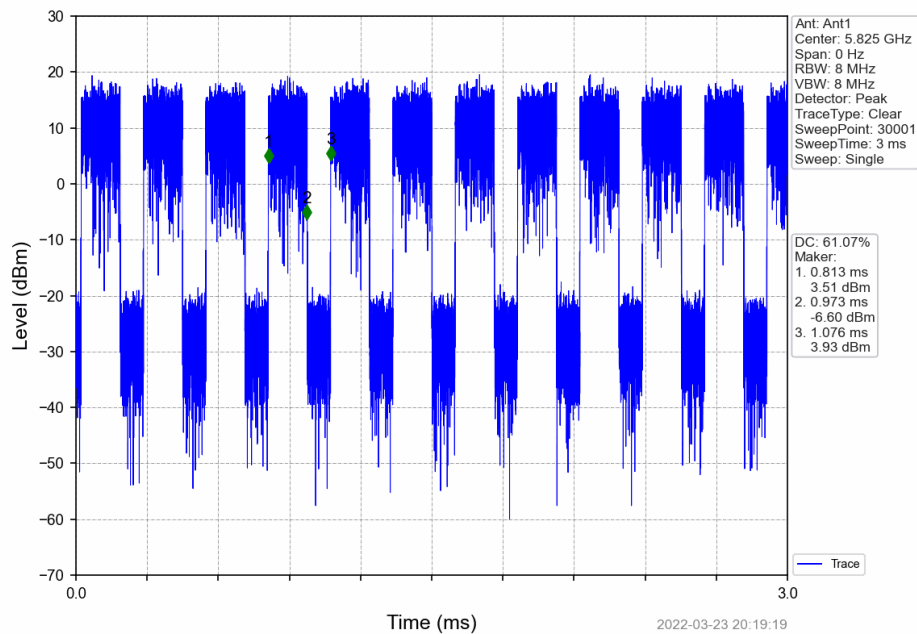
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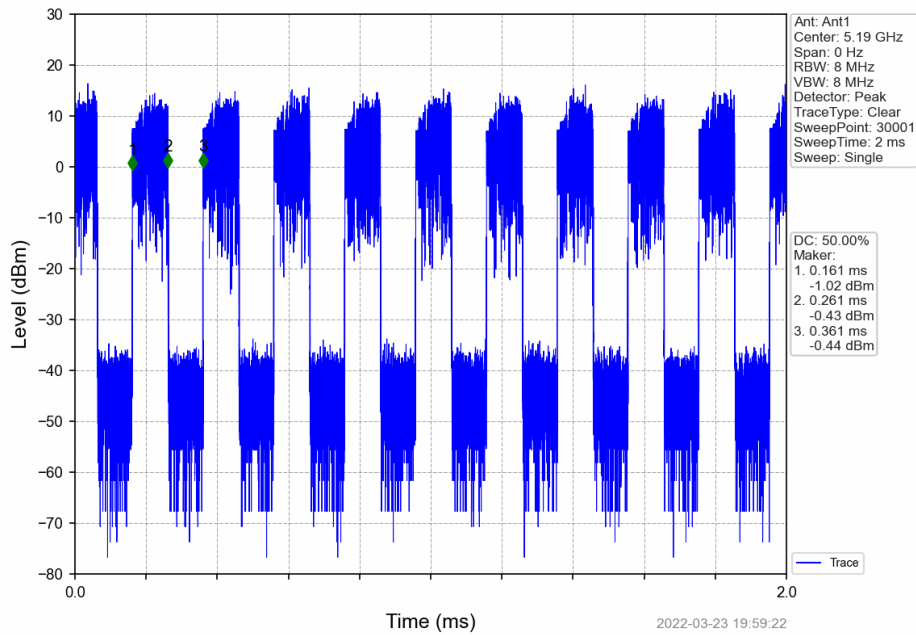
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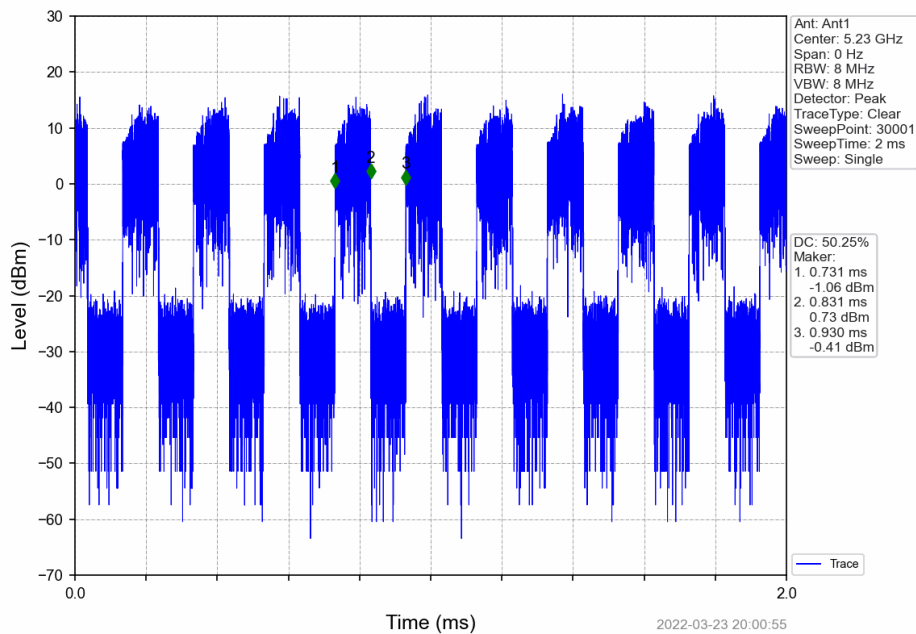
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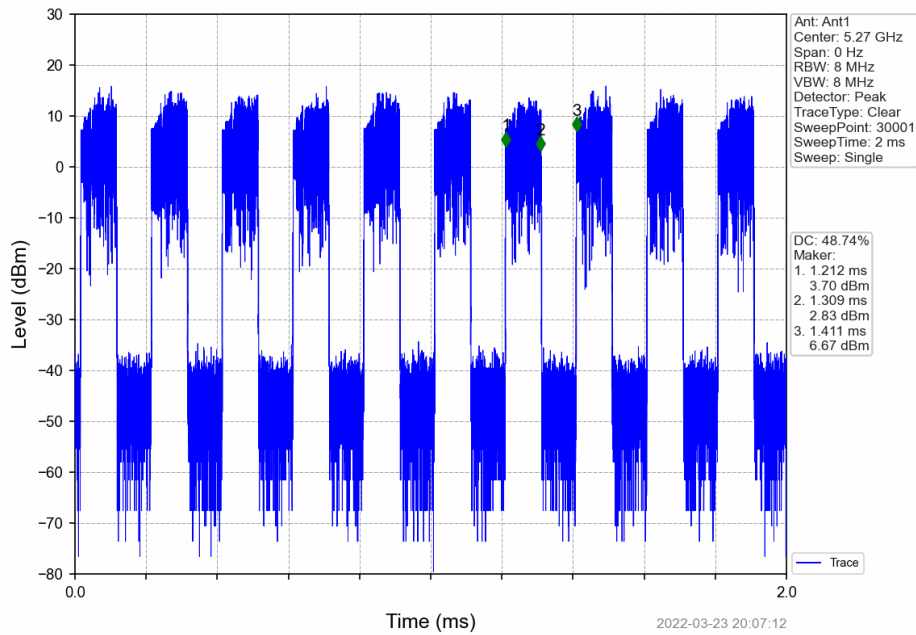
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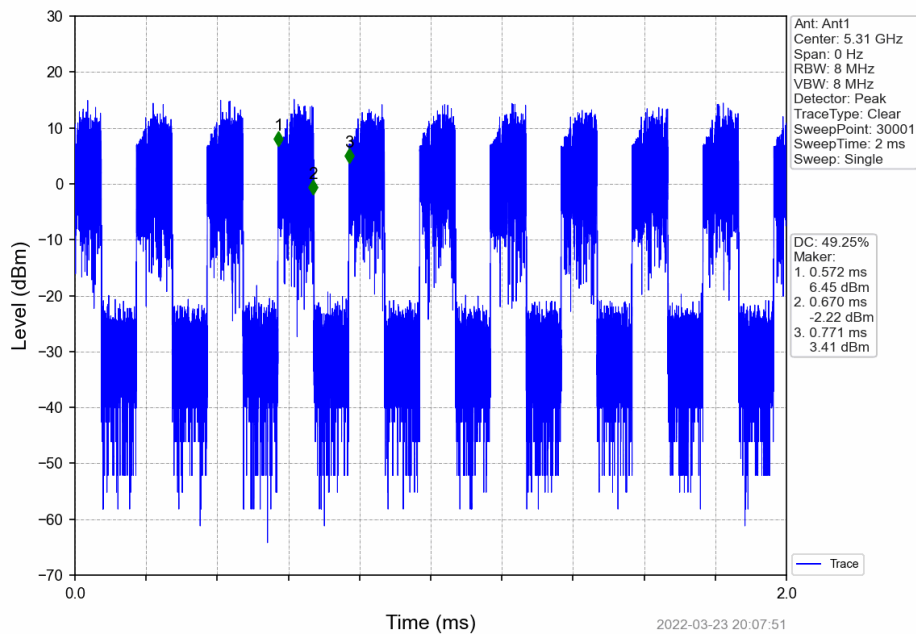
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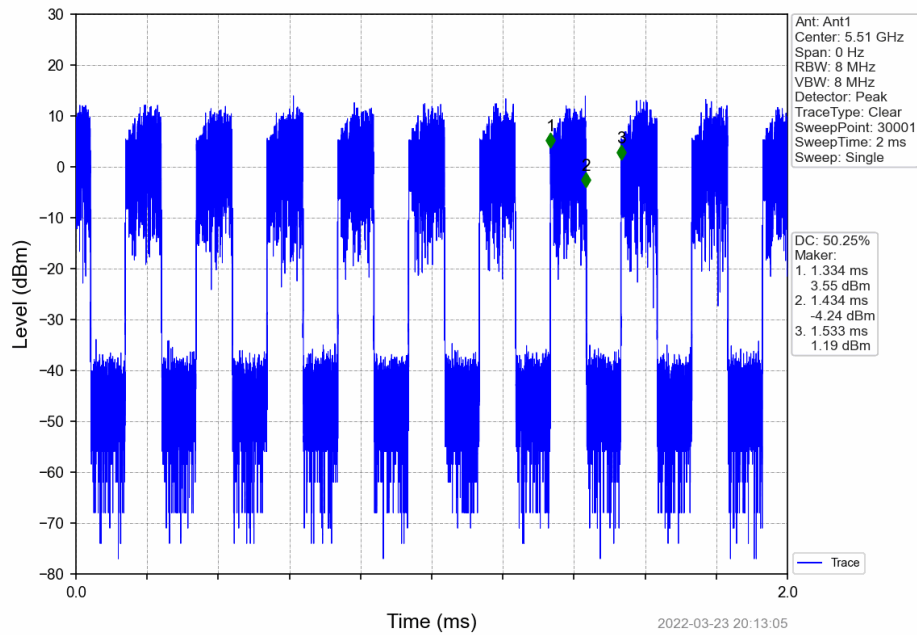
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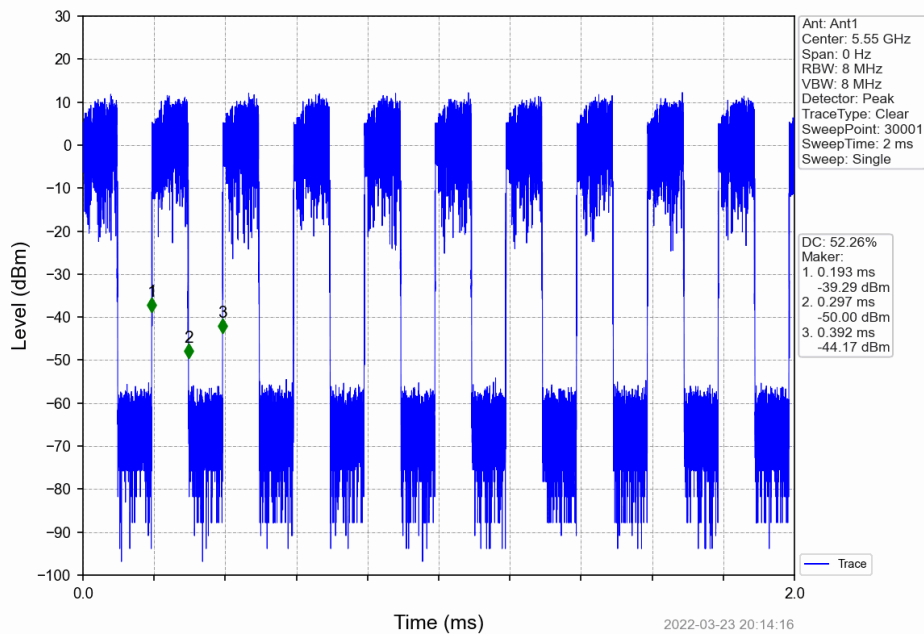
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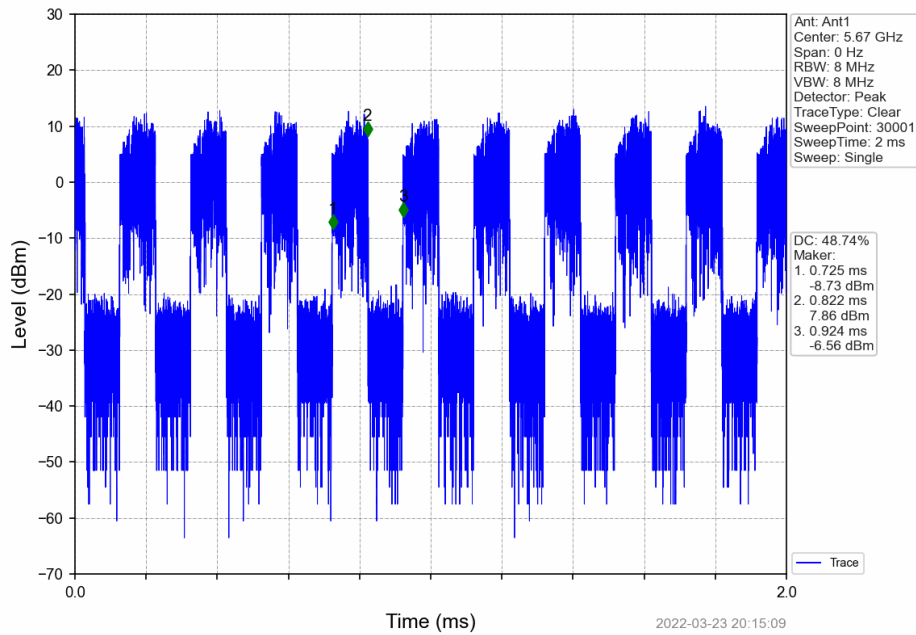
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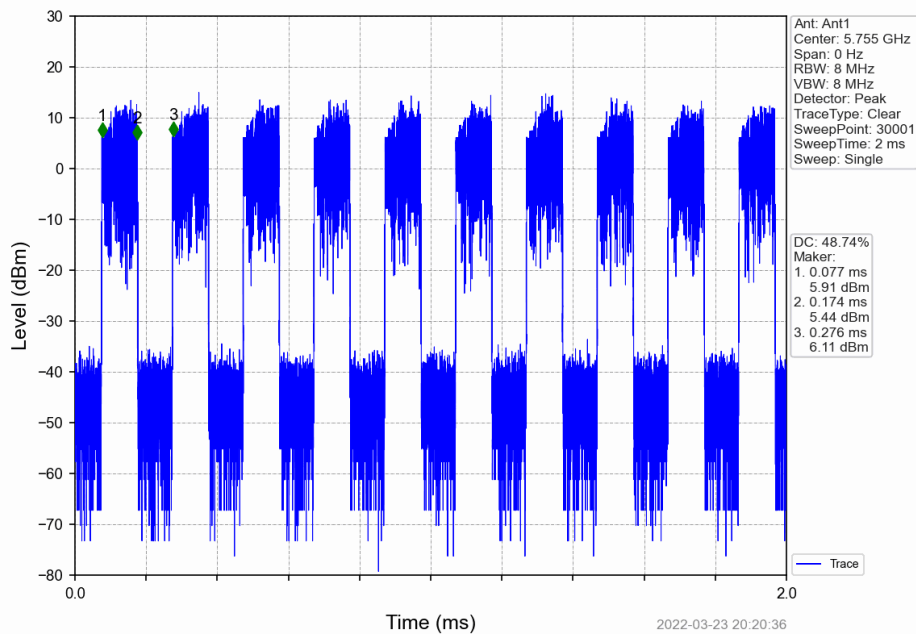
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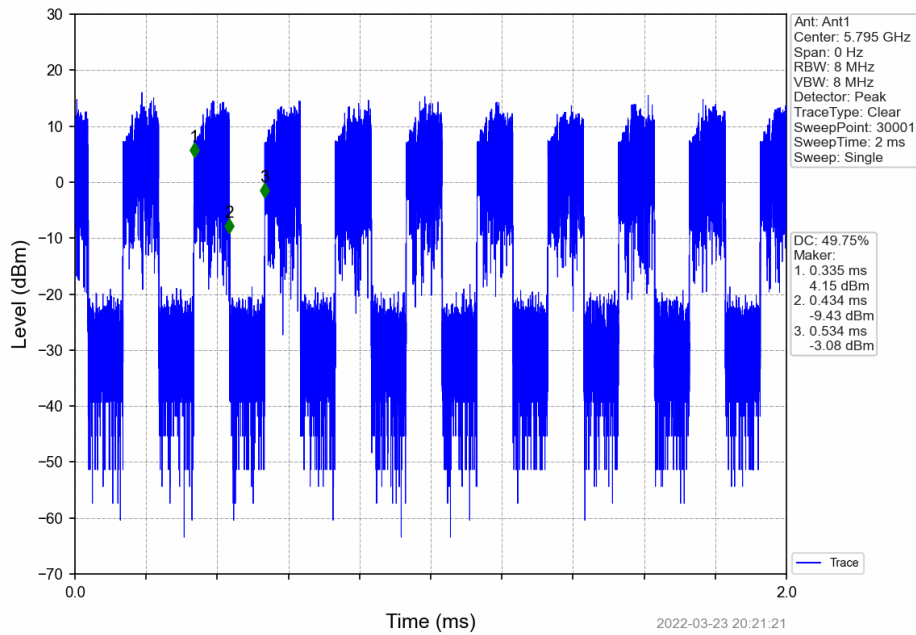
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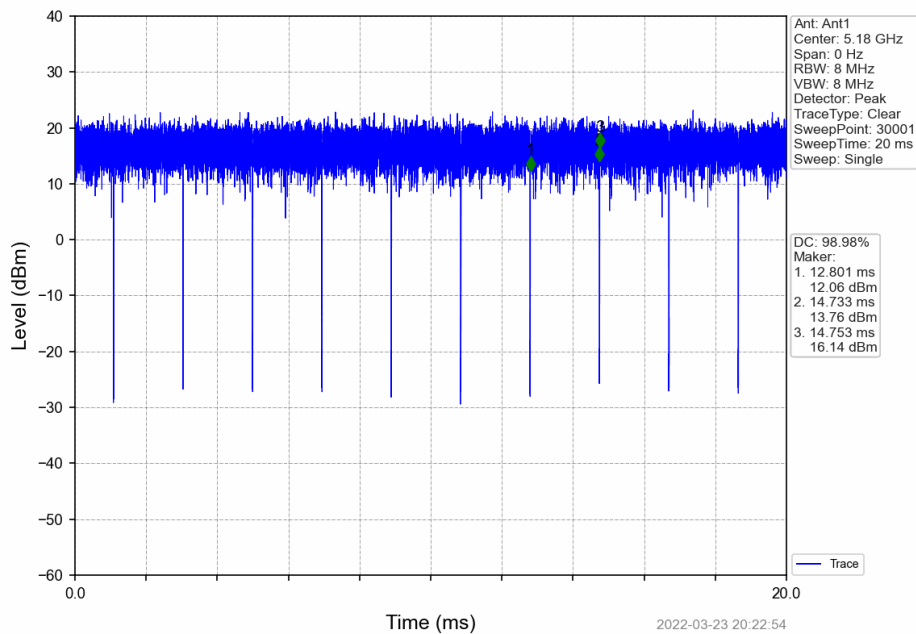
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



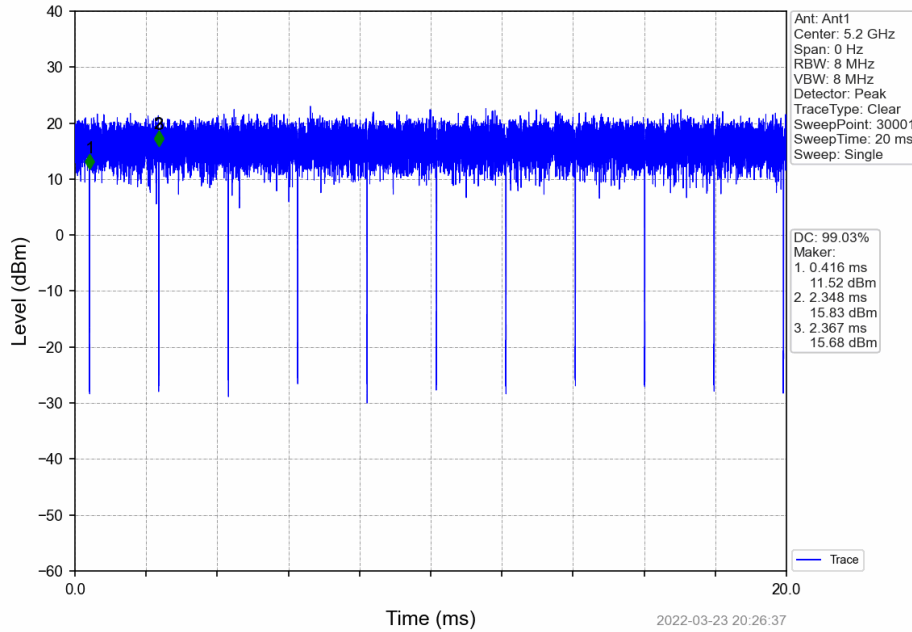
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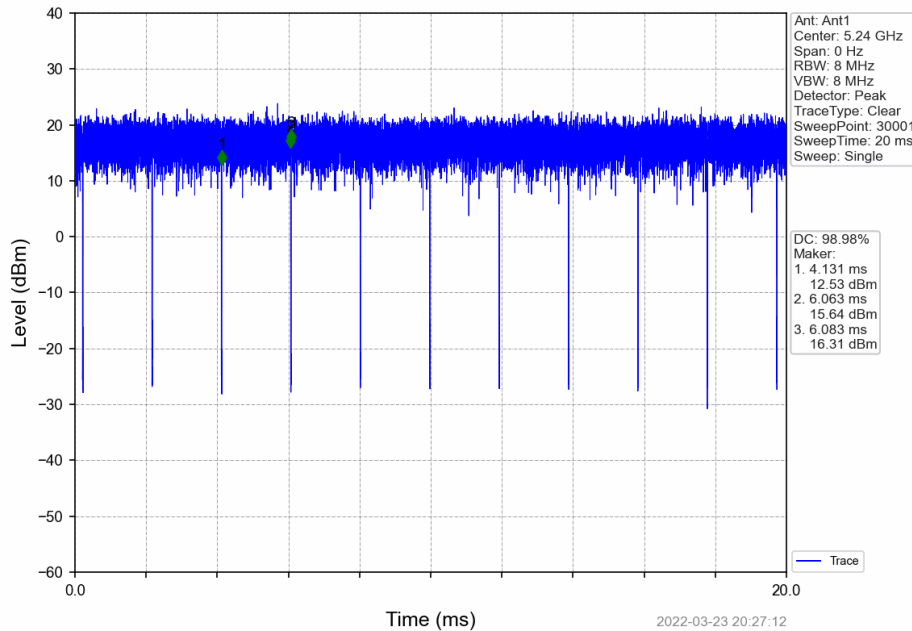
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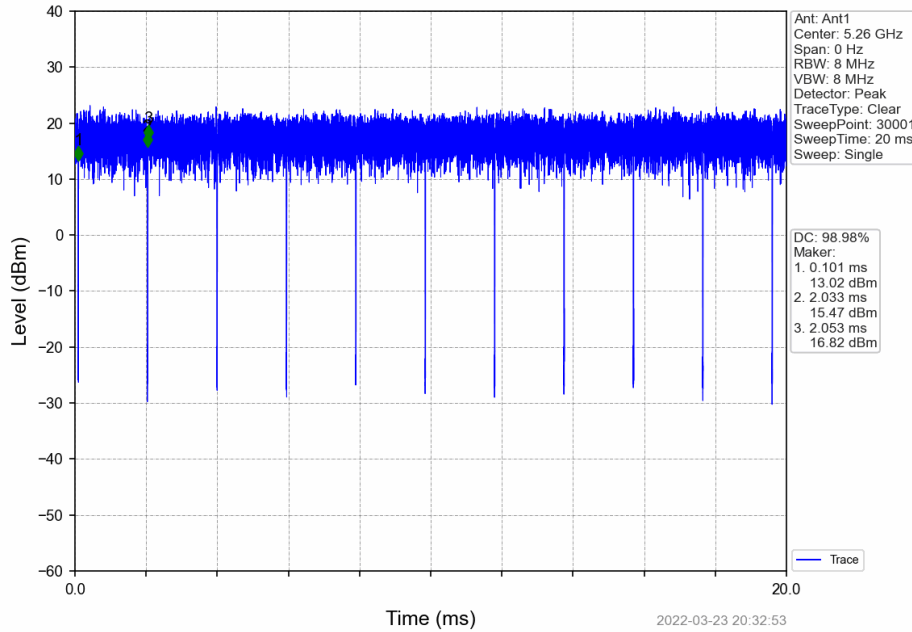
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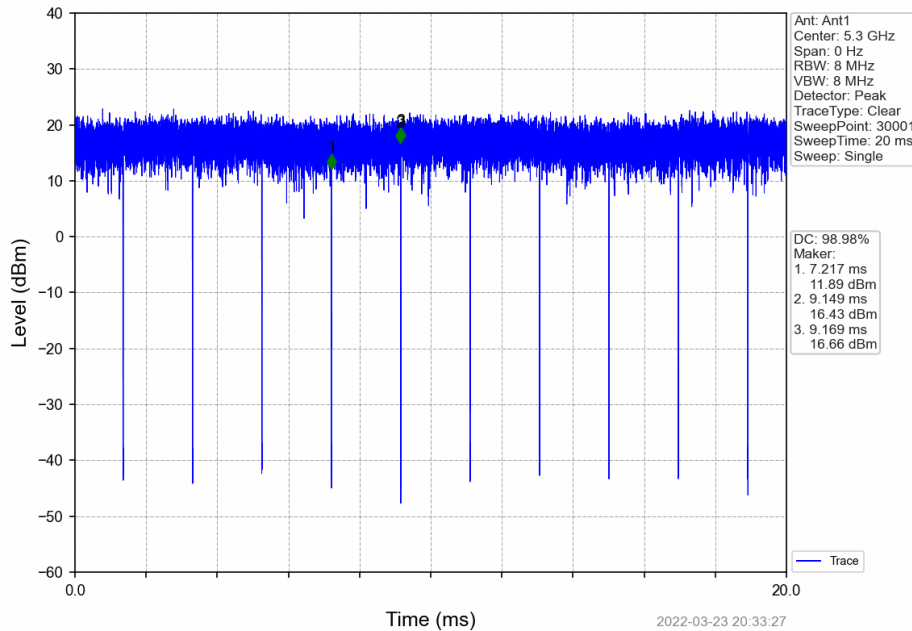
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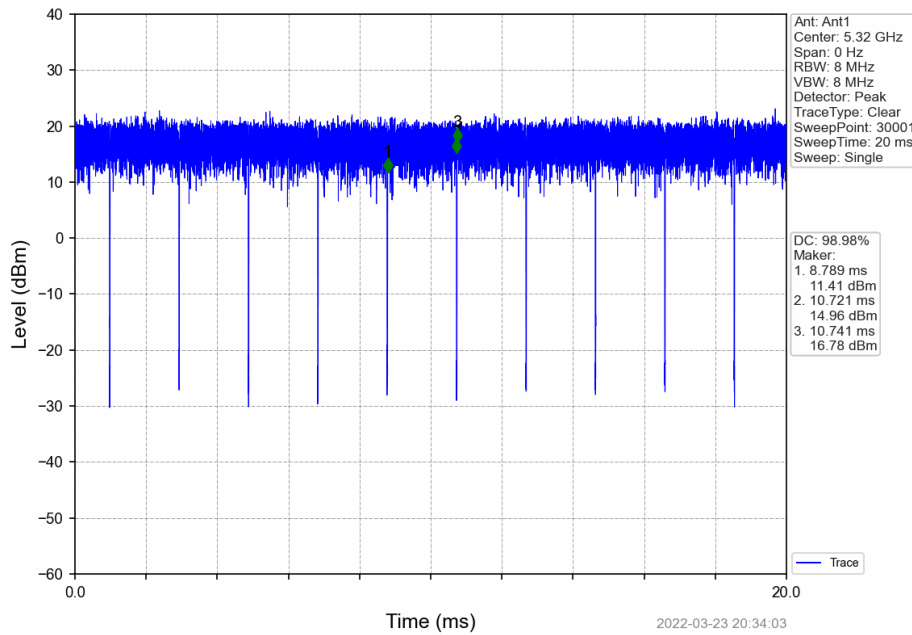
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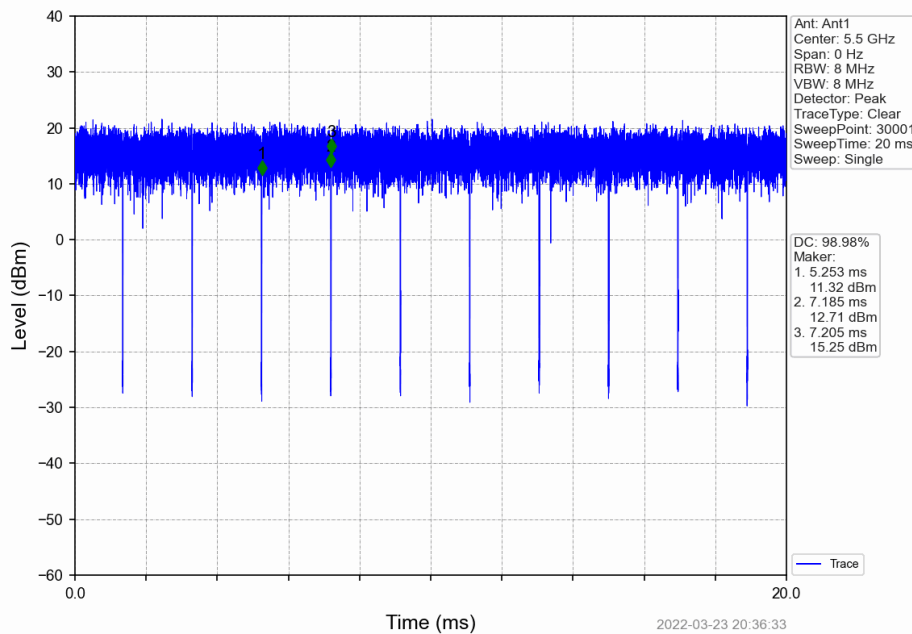
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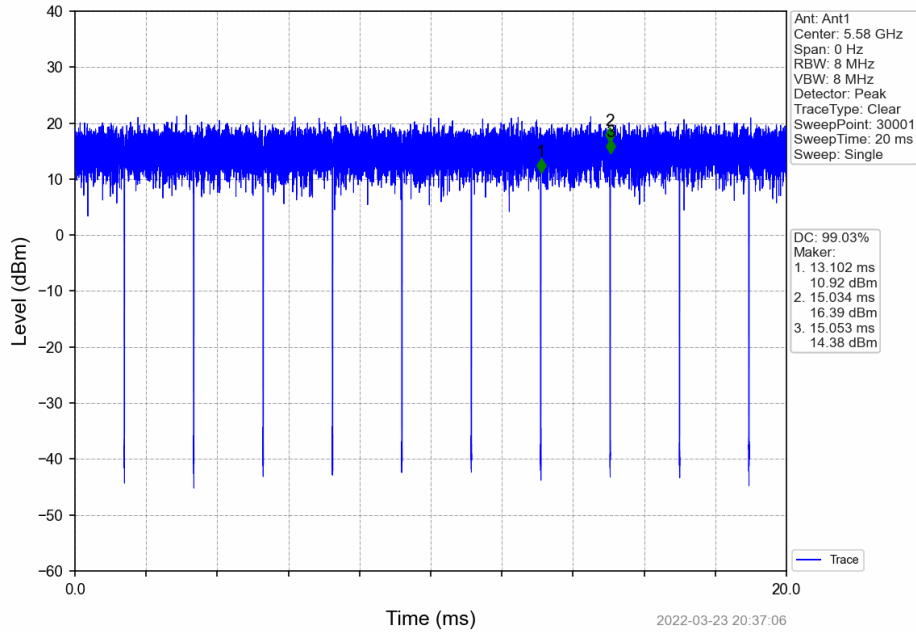
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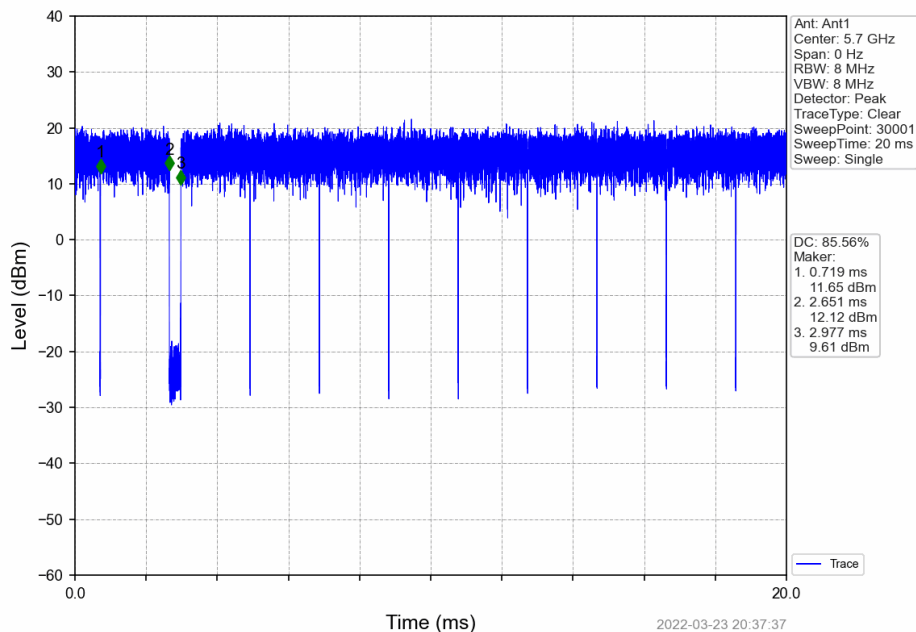
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



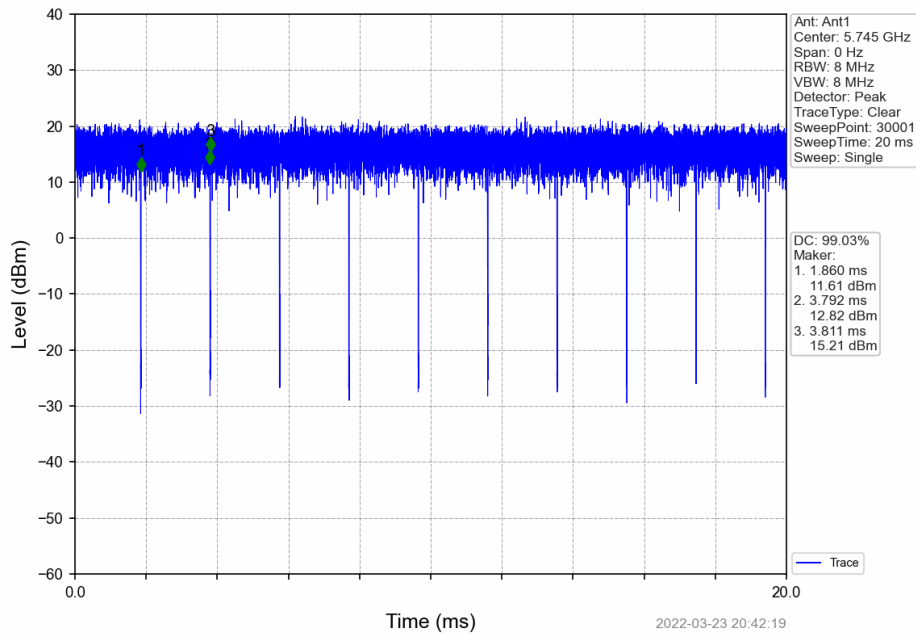
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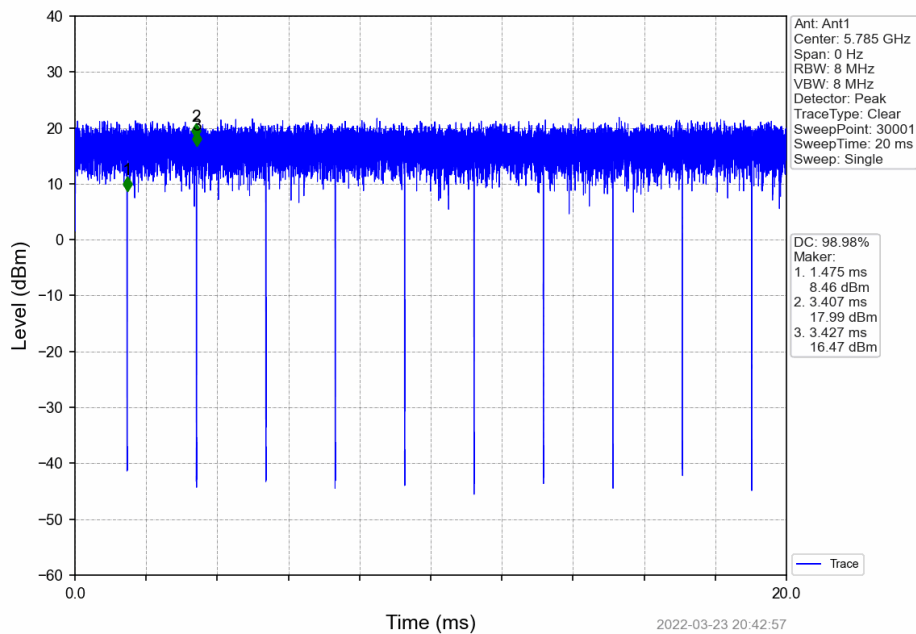
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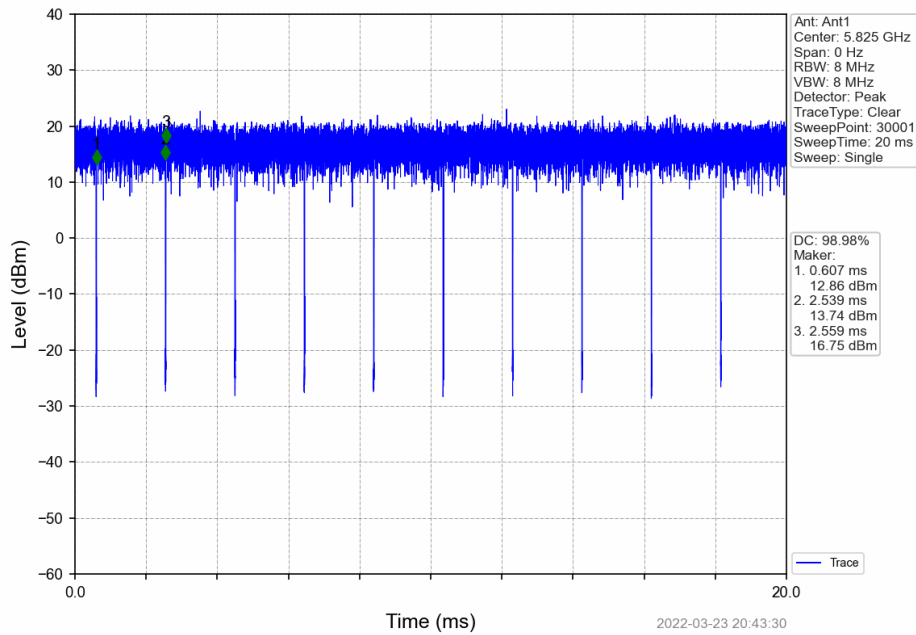
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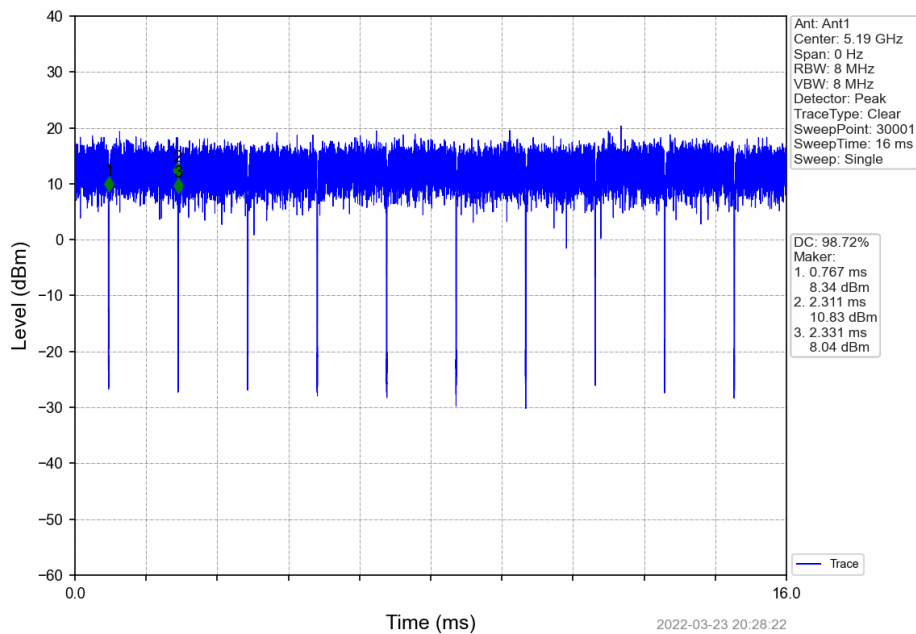
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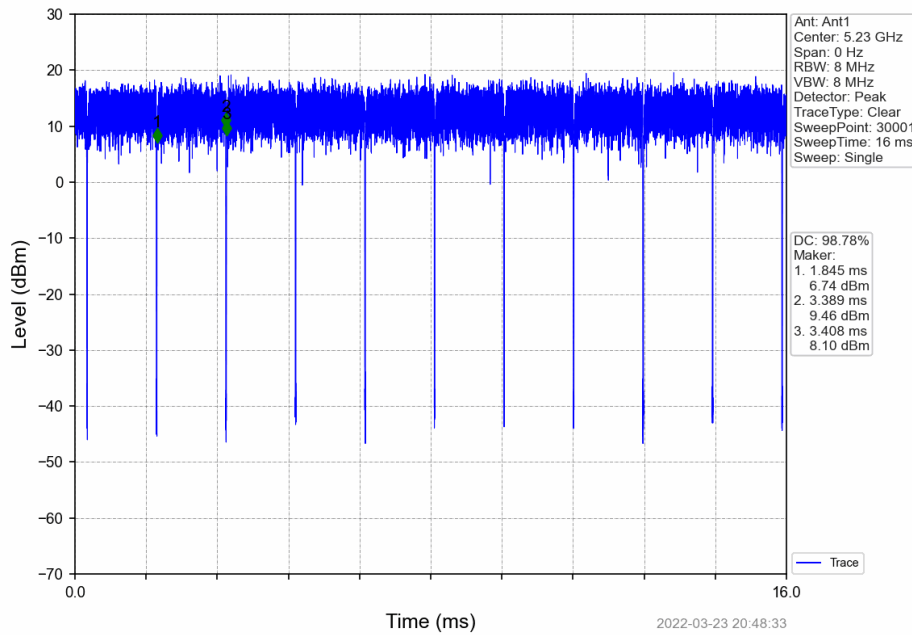
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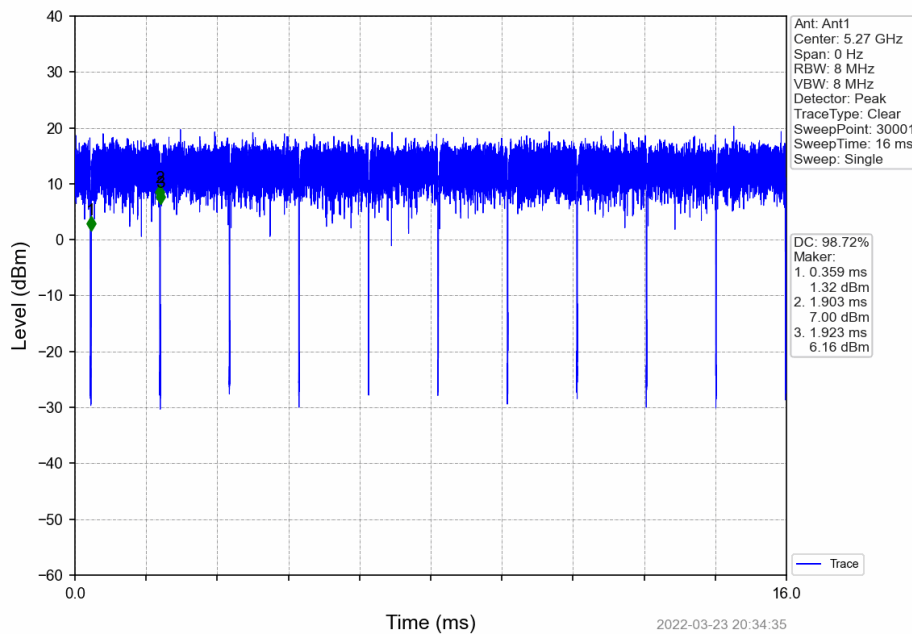
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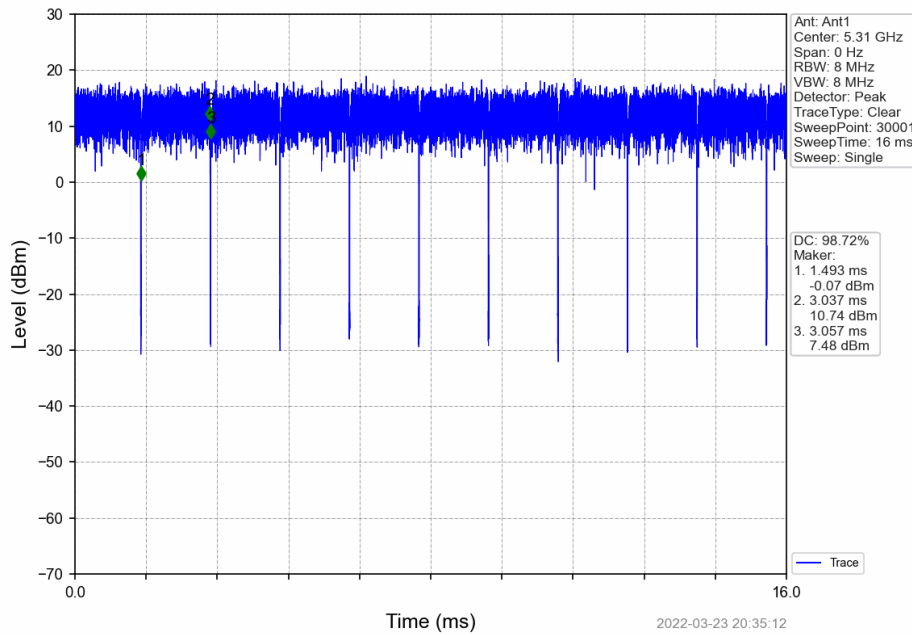
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV

