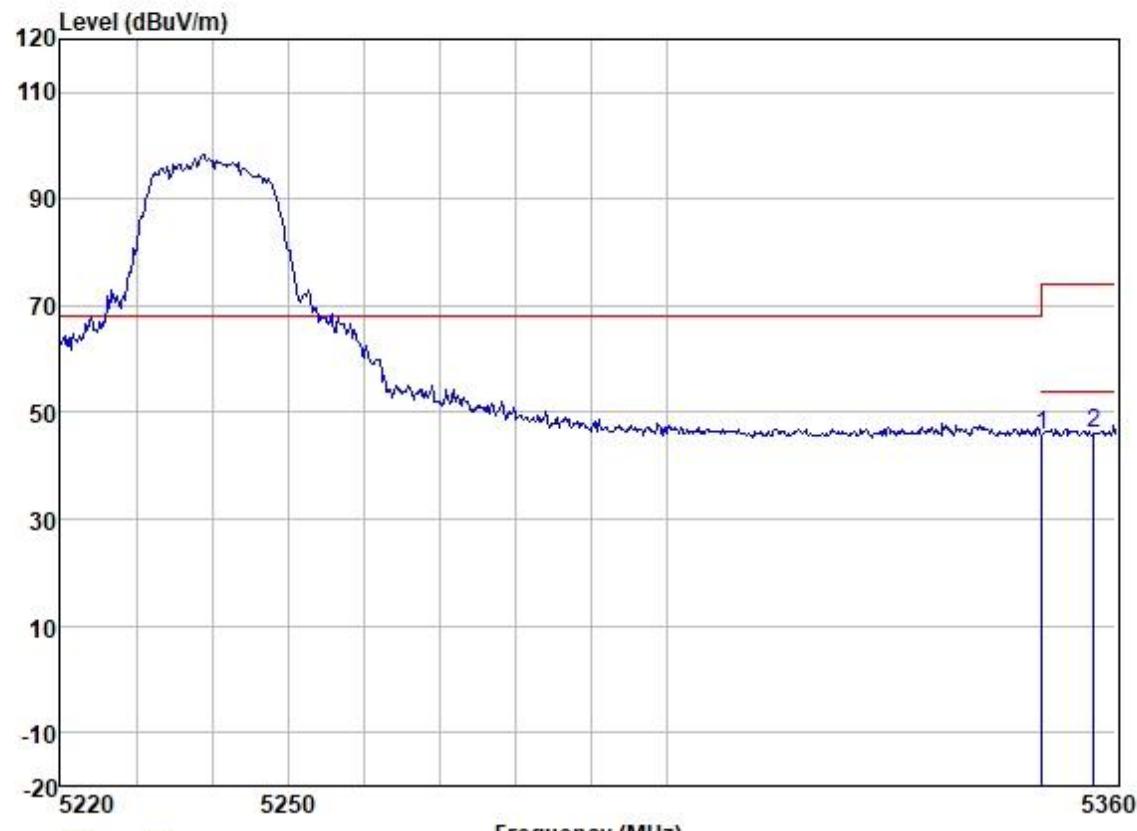


Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Race: (Discrete)

	Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	Factor	Loss					
1	5350.000	42.87	33.04	6.05	36.24	45.72	68.20	-22.48	HORIZONTAL	Peak
2	5357.022	43.21	33.03	6.03	36.24	46.03	74.00	-27.97	HORIZONTAL	Peak

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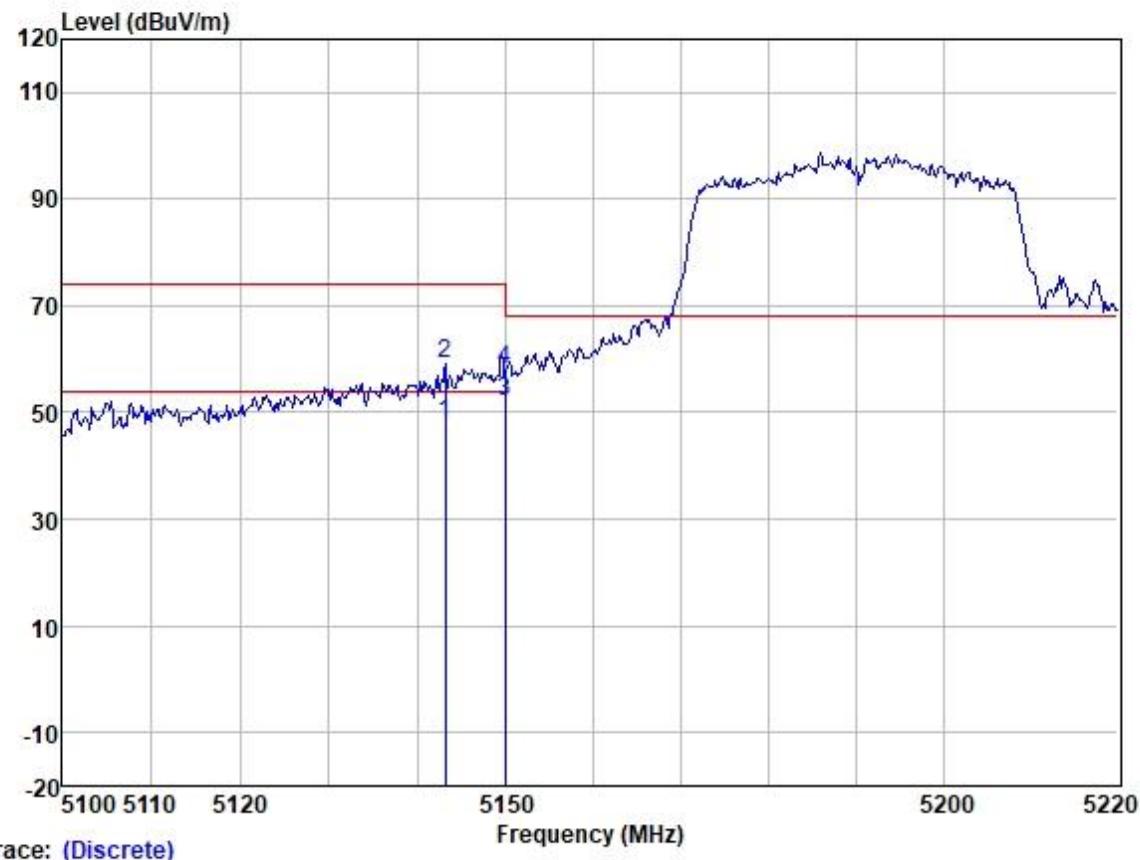
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level Factor	Loss Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 5143.238	45.55	33.18	5.62	36.31	48.04	54.00	-5.96	VERTICAL Average
2 5143.238	56.70	33.18	5.62	36.31	59.19	74.00	-14.81	VERTICAL Peak
3 5150.000	49.66	33.18	5.62	36.31	52.15	54.00	-1.85	VERTICAL Average
4 5150.000	55.58	33.18	5.62	36.31	58.07	68.20	-10.13	VERTICAL Peak

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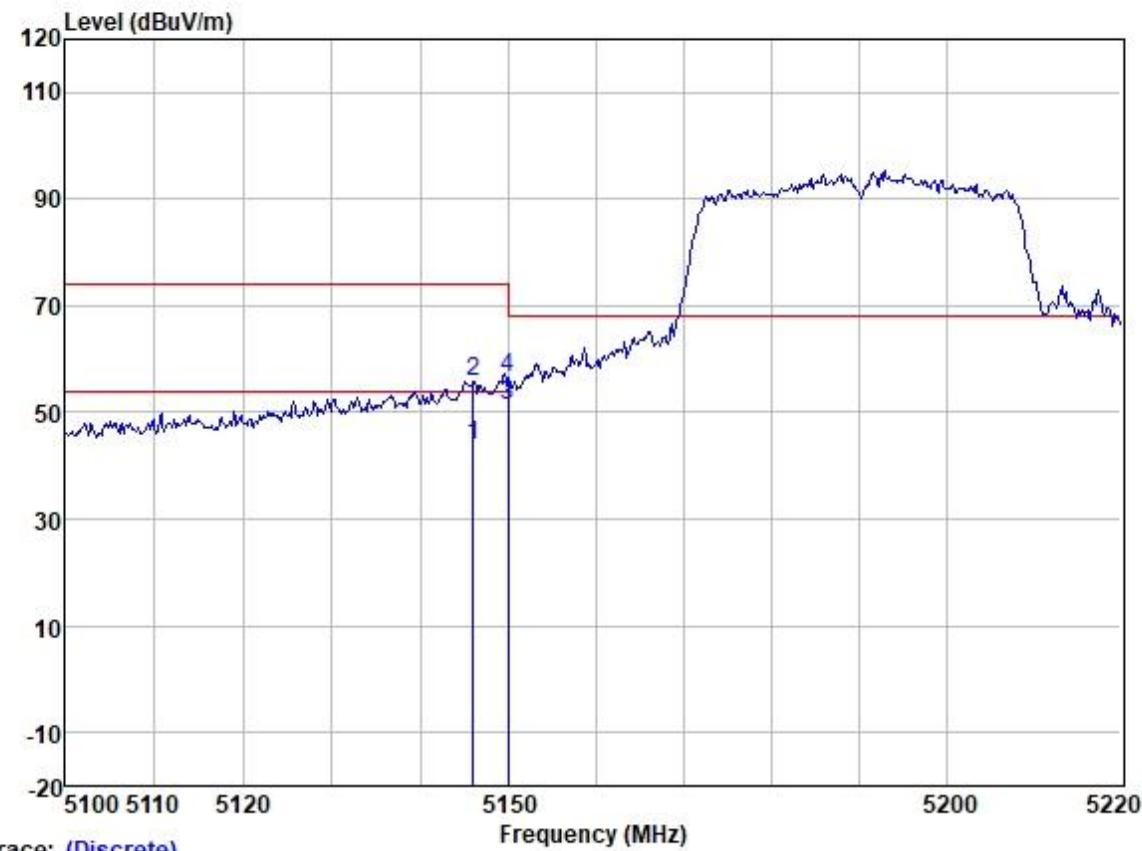
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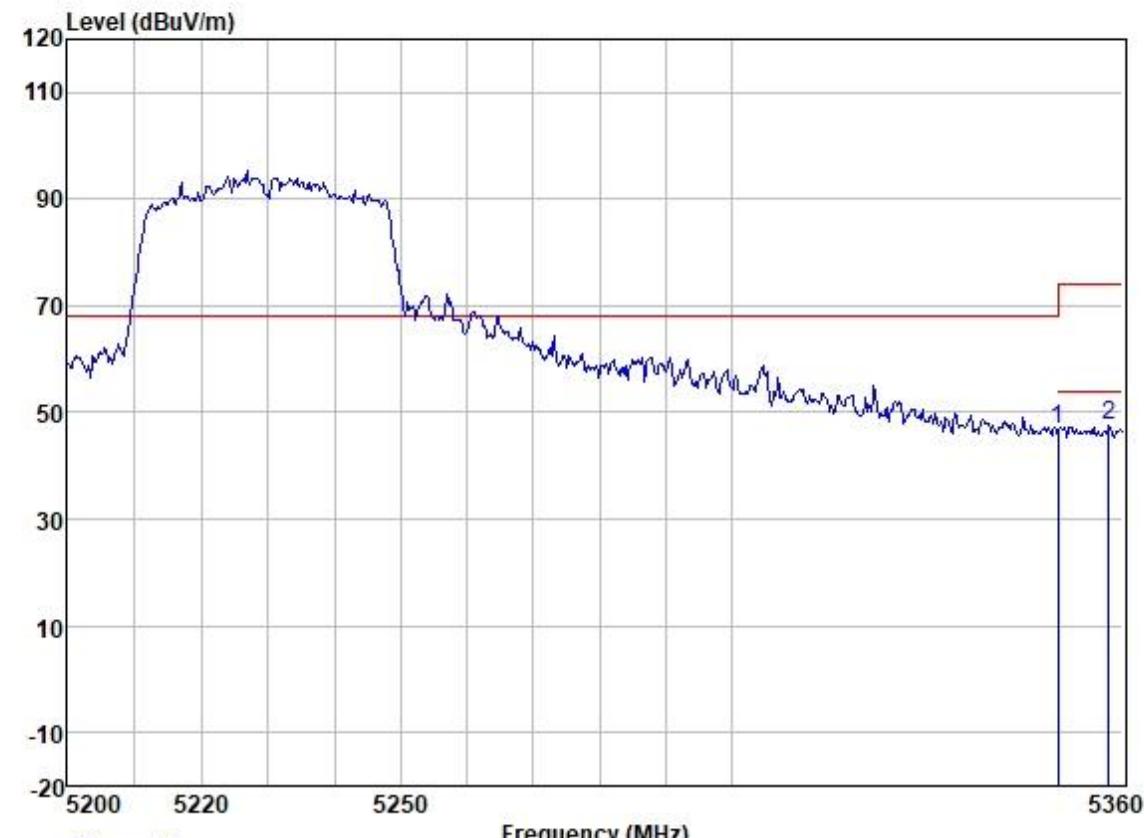
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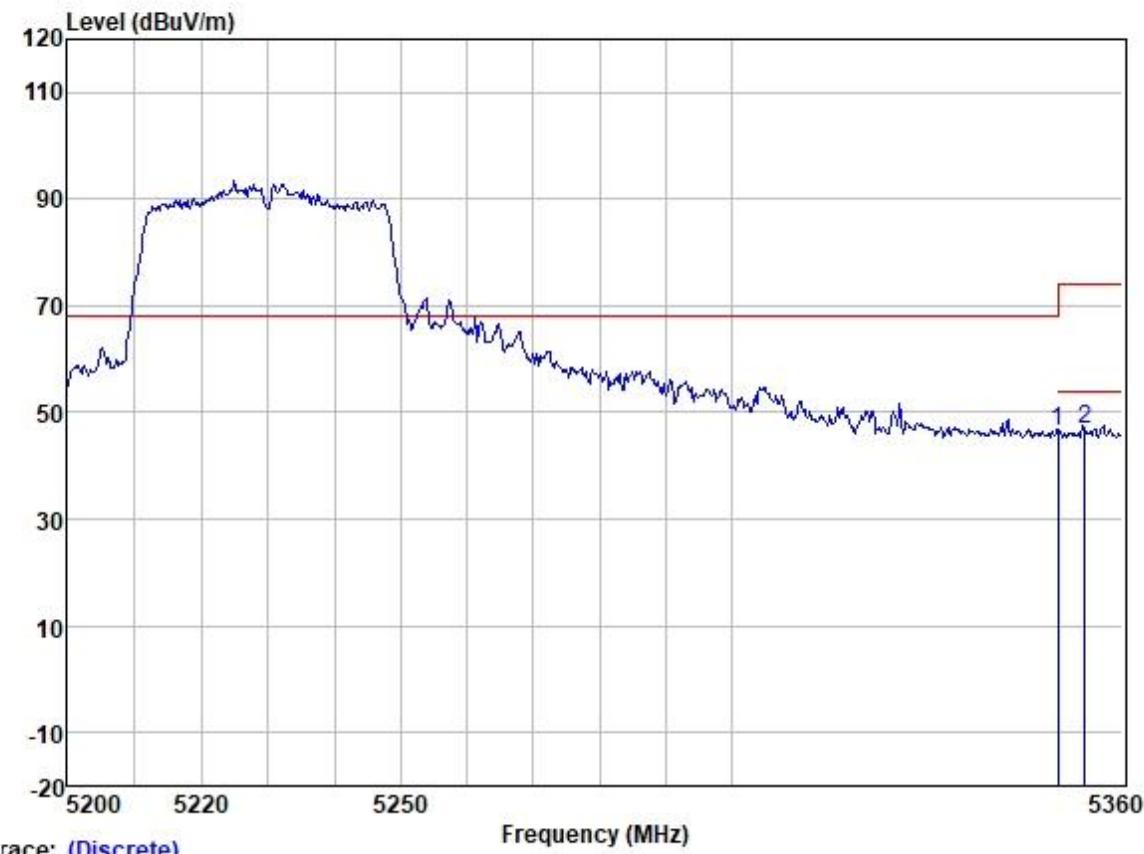
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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



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

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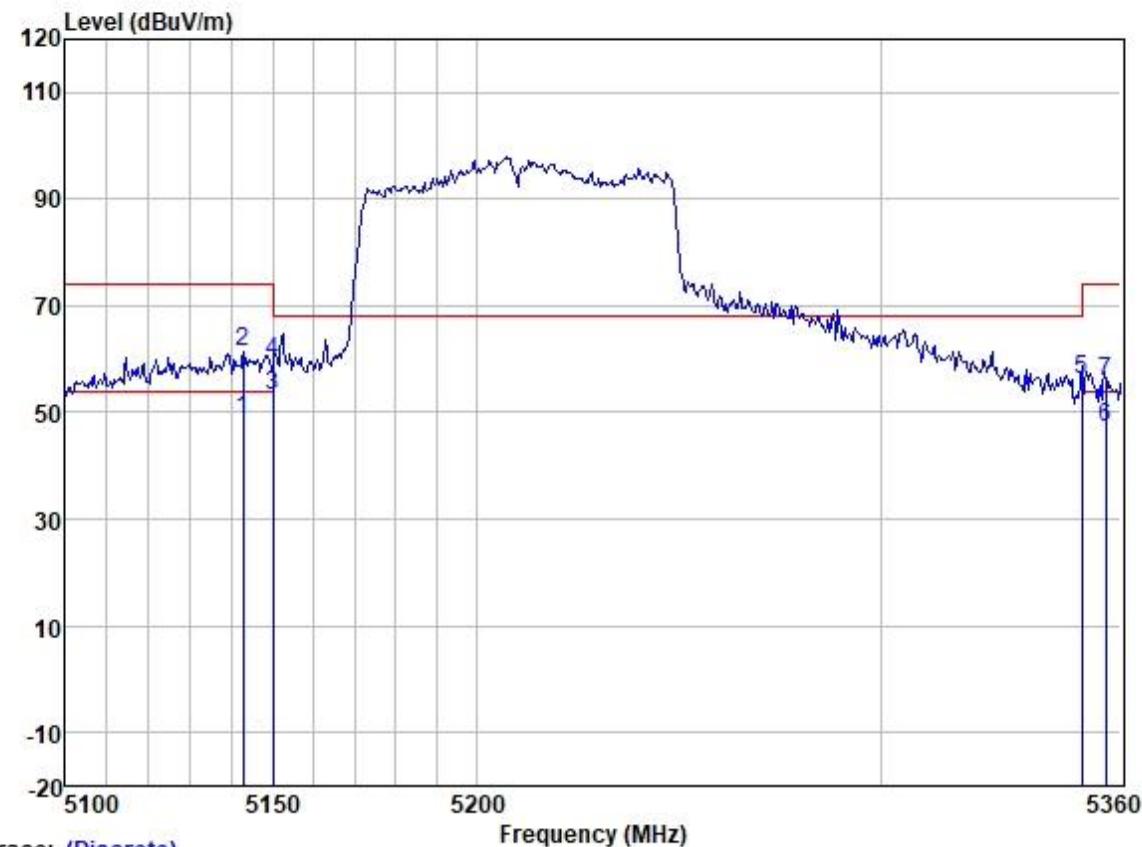
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Limit		Over Line Limit	Over Pol/Phase	Remark
				dB	dBuV/m			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 5142.781	46.34	33.18	5.62	36.31	48.83	54.00	-5.17	VERTICAL Average
2 5142.781	58.81	33.18	5.62	36.31	61.30	74.00	-12.70	VERTICAL Peak
3 5150.000	50.82	33.18	5.62	36.31	53.31	54.00	-0.69	VERTICAL Average
4 5150.000	57.20	33.18	5.62	36.31	59.69	68.20	-8.51	VERTICAL Peak
5 5350.000	53.33	33.04	6.05	36.24	56.18	68.20	-12.02	VERTICAL Peak
6 5356.004	44.55	33.03	6.03	36.24	47.37	54.00	-6.63	VERTICAL Average
7 5356.004	52.98	33.03	6.03	36.24	55.80	74.00	-18.20	VERTICAL Peak

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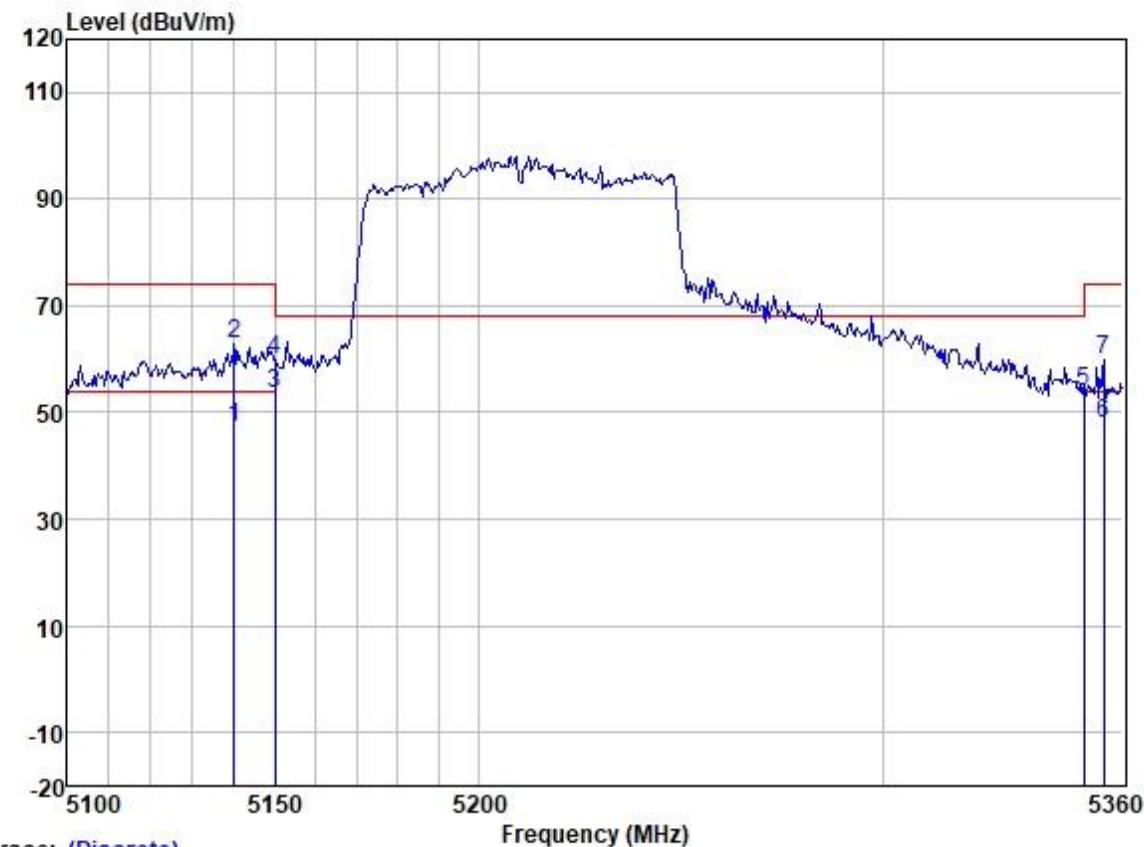
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Race: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Line		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1 5140.225	44.72	33.19	5.63	36.31	47.23	54.00	-6.77	HORIZONTAL Average
2 5140.225	60.34	33.19	5.63	36.31	62.85	74.00	-11.15	HORIZONTAL Peak
3 5150.000	51.01	33.18	5.62	36.31	53.50	54.00	-0.50	HORIZONTAL Average
4 5150.000	57.33	33.18	5.62	36.31	59.82	68.20	-8.38	HORIZONTAL Peak
5 5350.000	51.20	33.04	6.05	36.24	54.05	68.20	-14.15	HORIZONTAL Peak
6 5355.205	45.03	33.03	6.03	36.24	47.85	54.00	-6.15	HORIZONTAL Average
7 5355.205	57.12	33.03	6.03	36.24	59.94	74.00	-14.06	HORIZONTAL Peak

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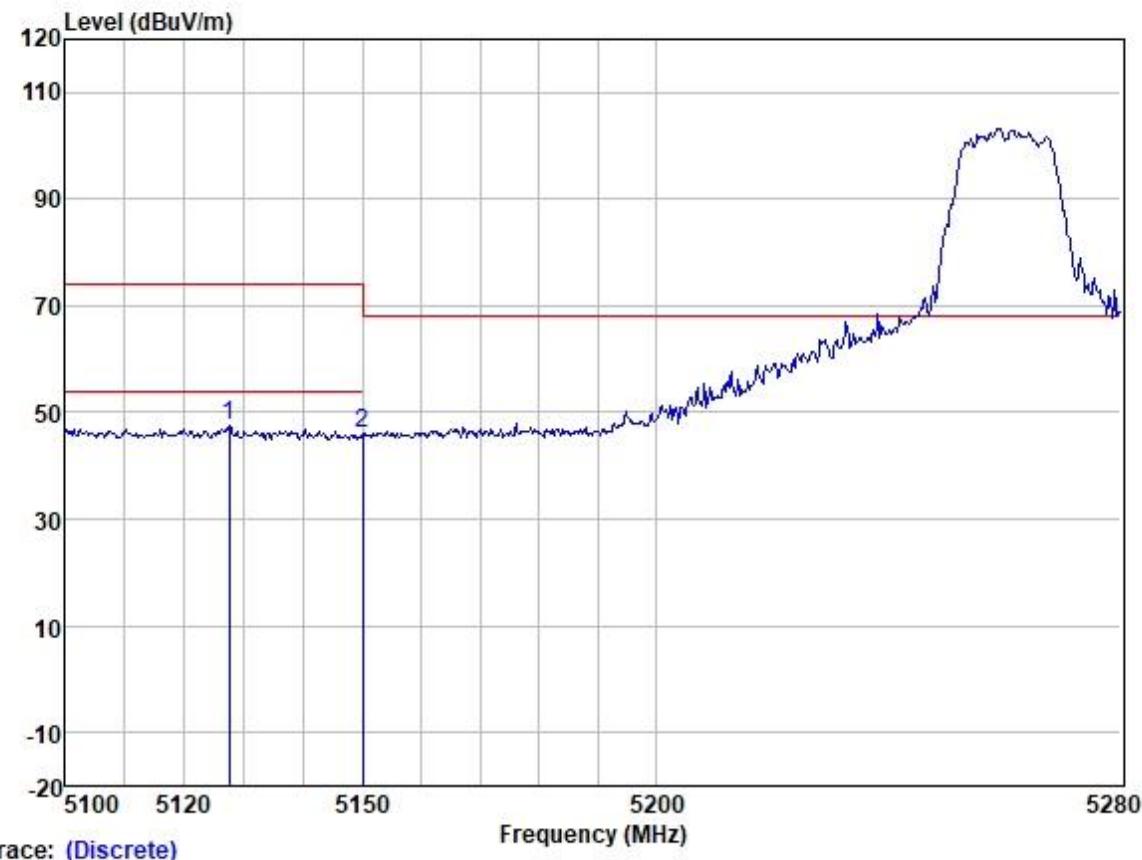
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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Over	Over	Over	Over	Over
	Freq	Level	Antenna	Loss	Preamp	Level	Line	Line	Pol/Phase	Remark	Remark
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 5127.493	45.07	33.19	5.63	36.32	47.57	74.00	-26.43	VERTICAL	Peak		
2 5150.000	43.55	33.18	5.62	36.31	46.04	68.20	-22.16	VERTICAL	Peak		

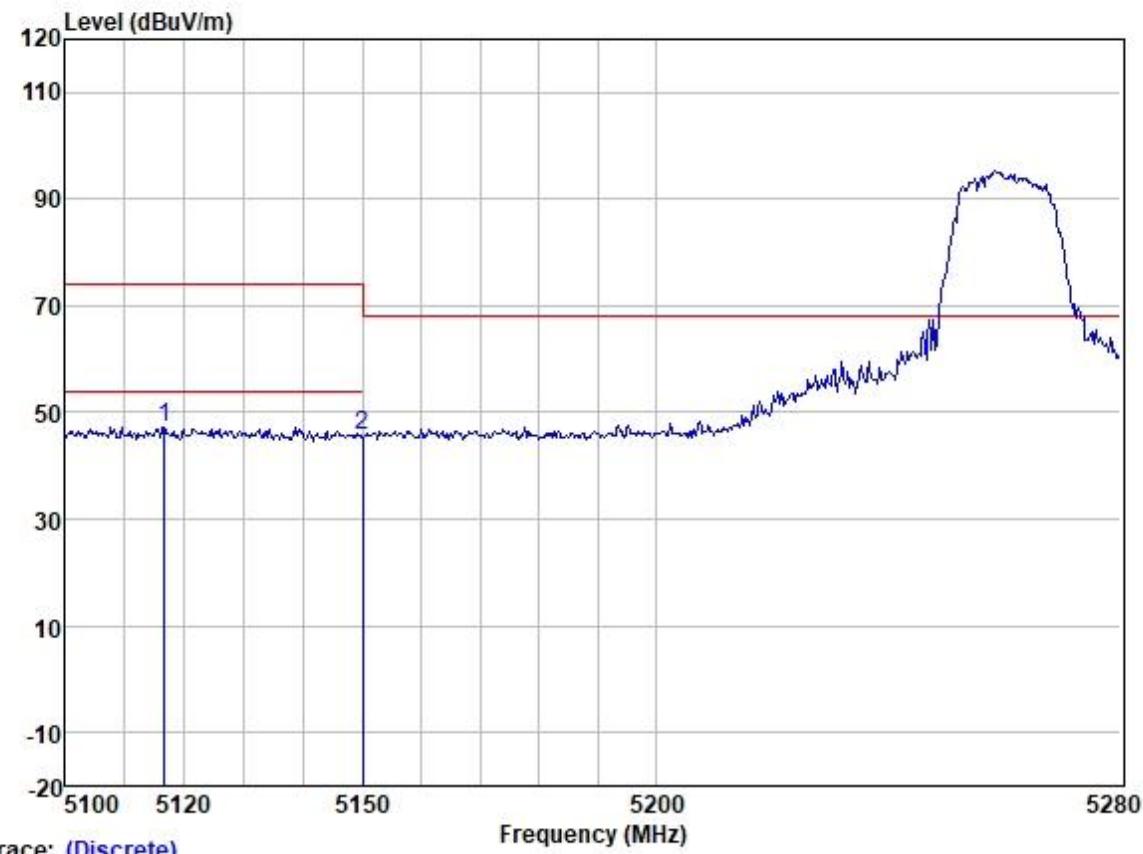
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		MHz	Level	Factor	Loss					
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5116.655	44.82	33.21	5.64	36.32	47.35	74.00	-26.65	HORIZONTAL	Peak
2	5150.000	43.13	33.18	5.62	36.31	45.62	68.20	-22.58	HORIZONTAL	Peak

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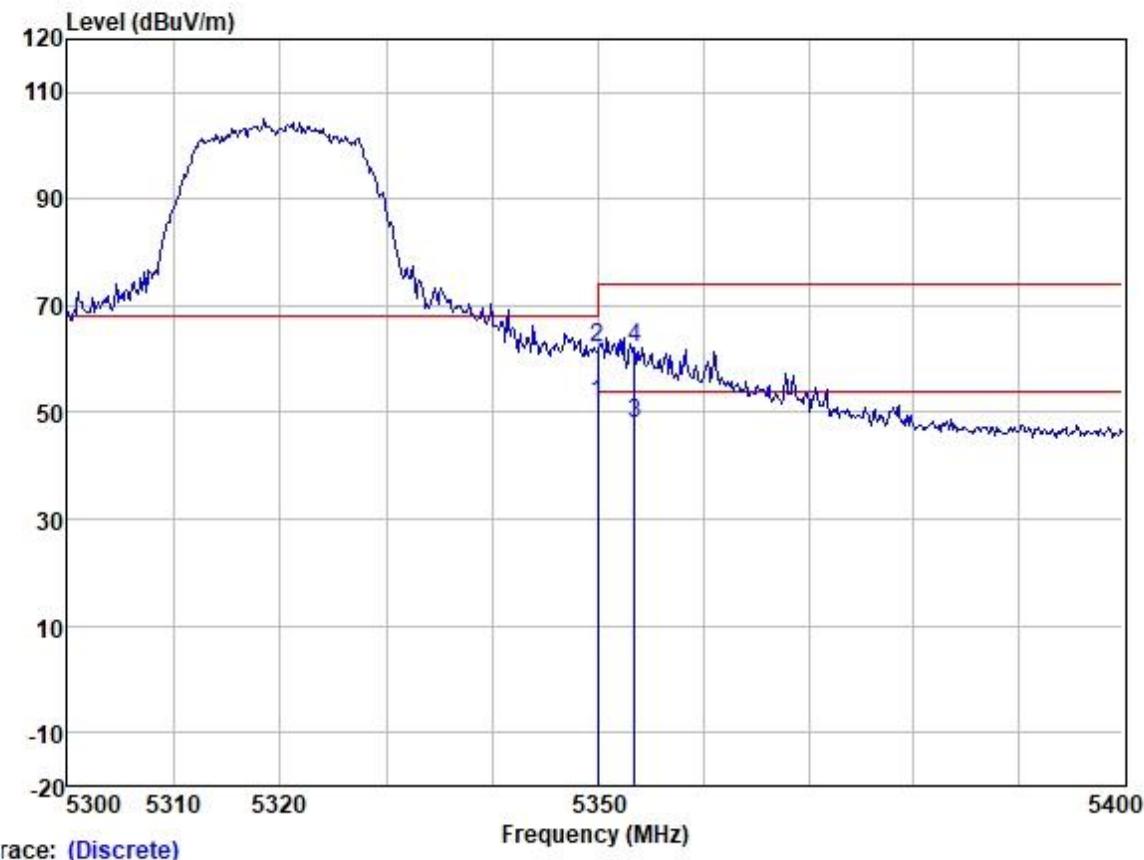
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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



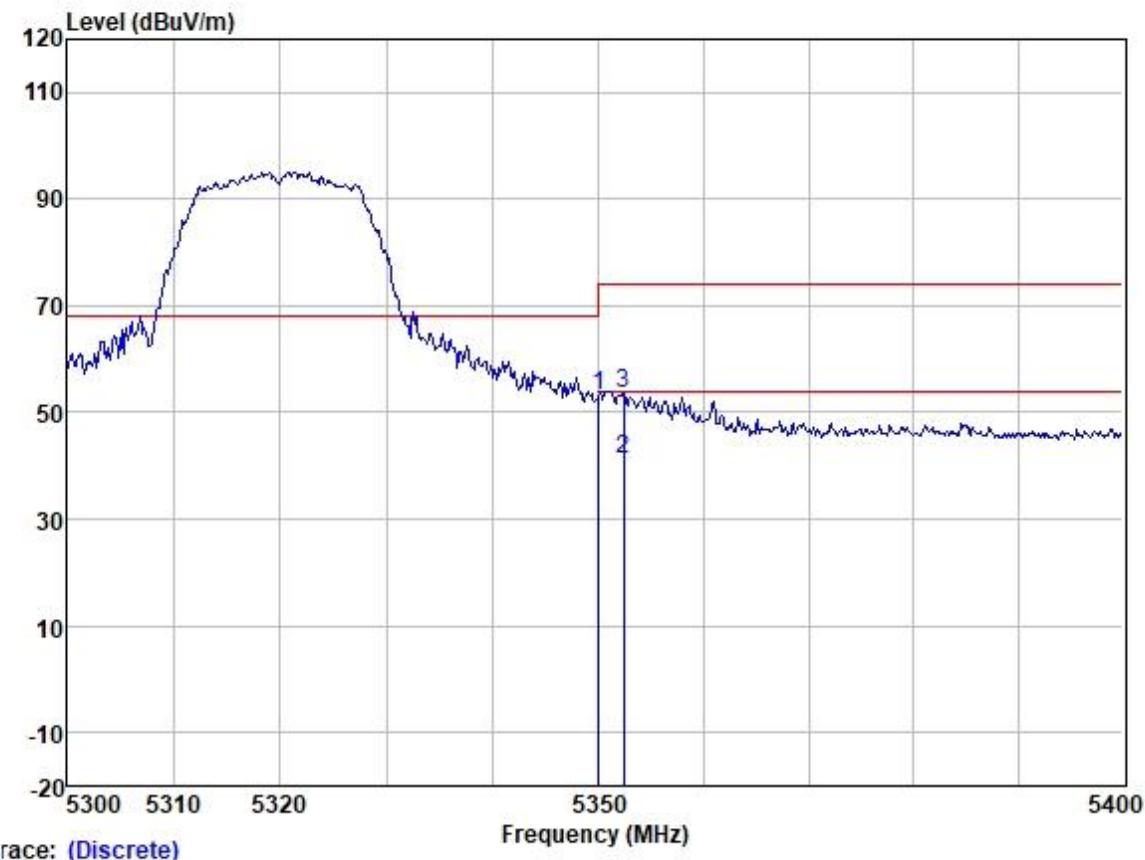
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 5350.000	48.78	33.04	6.05	36.24	51.63	54.00	-2.37 VERTICAL Average
2 5350.000	59.43	33.04	6.05	36.24	62.28	68.20	-5.92 VERTICAL Peak
3 5353.468	45.03	33.04	6.05	36.24	47.88	54.00	-6.12 VERTICAL Average
4 5353.468	59.44	33.04	6.05	36.24	62.29	74.00	-11.71 VERTICAL Peak

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	Level Factor	Loss					
1	5350.066	50.44	33.04	6.05	36.24	53.29	74.00	-20.71	HORIZONTAL	Peak
2	5352.467	38.25	33.04	6.05	36.24	41.10	54.00	-12.90	HORIZONTAL	Average
3	5352.467	50.69	33.04	6.05	36.24	53.54	74.00	-20.46	HORIZONTAL	Peak

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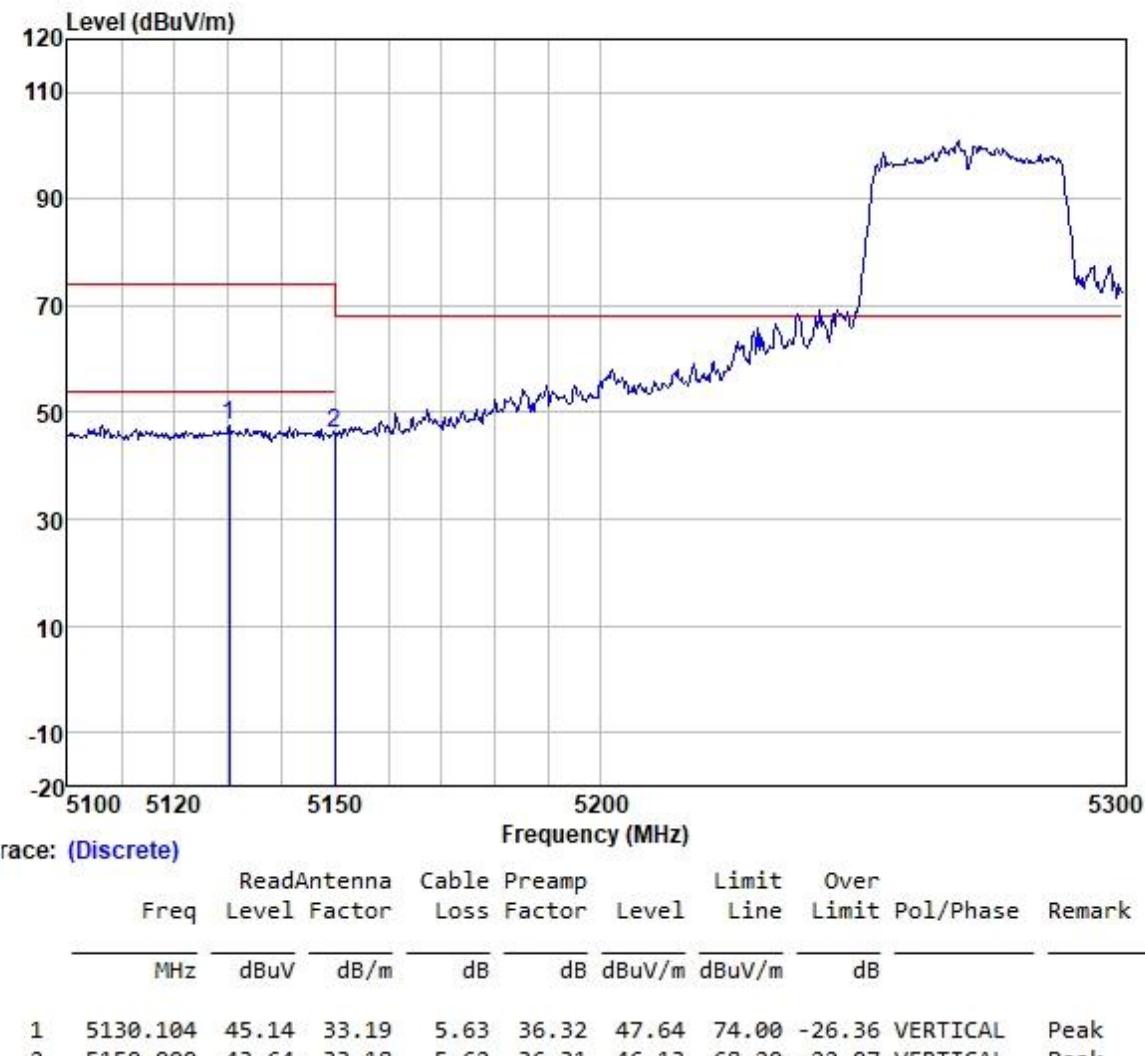
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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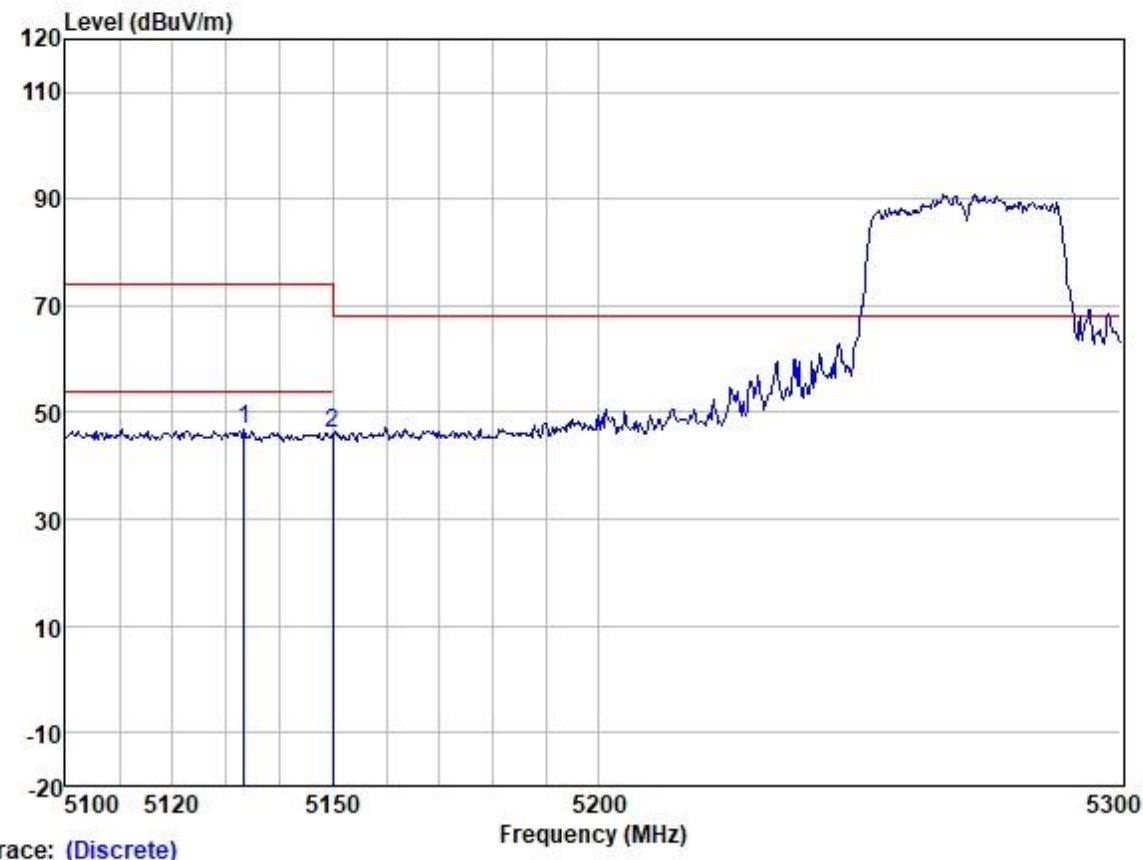
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	MHz	Level	Factor	Loss	Factor	Line		
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5133.262	44.21	33.19	5.63	36.32	46.71	74.00	-27.29 HORIZONTAL Peak
2	5150.000	43.44	33.18	5.62	36.31	45.93	68.20	-22.27 HORIZONTAL Peak

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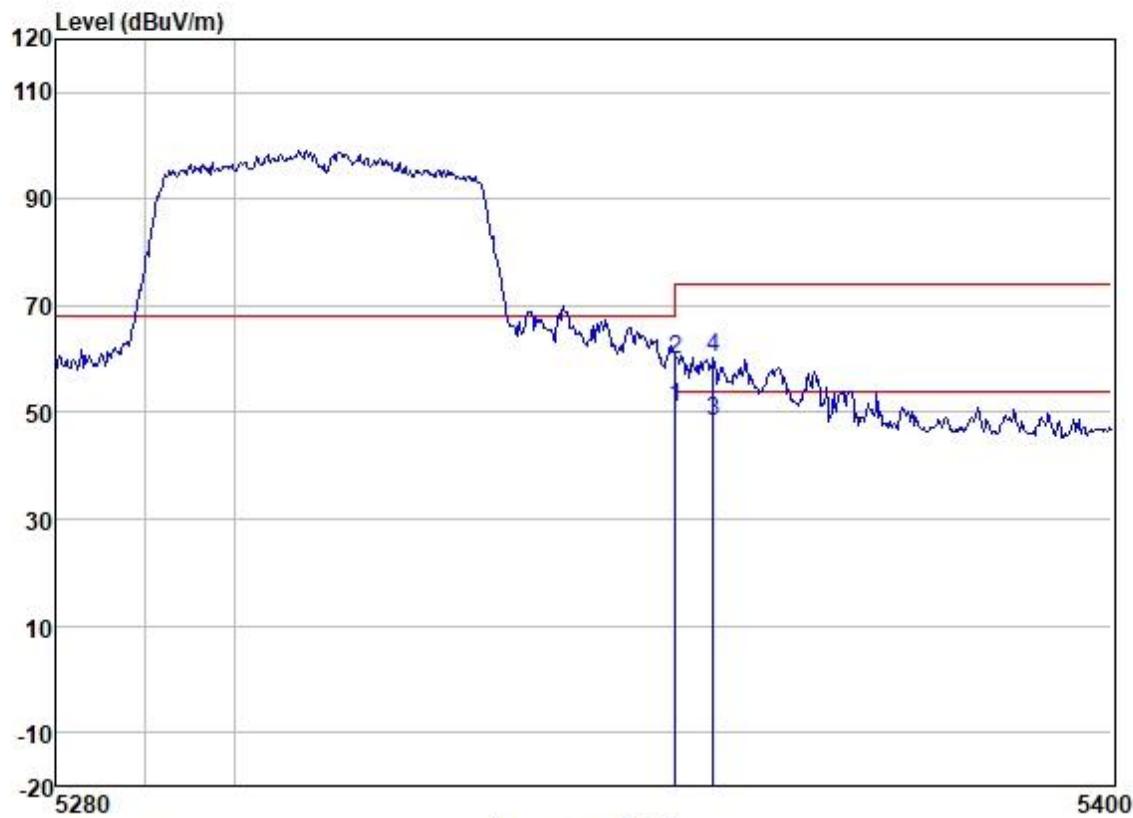
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5350.000	47.92	33.04	6.05	36.24	50.77	54.00	-3.23 VERTICAL Average
2	5350.000	57.21	33.04	6.05	36.24	60.06	68.20	-8.14 VERTICAL Peak
3	5354.323	45.42	33.03	6.03	36.24	48.24	54.00	-5.76 VERTICAL Average
4	5354.323	57.31	33.03	6.03	36.24	60.13	74.00	-13.87 VERTICAL Peak

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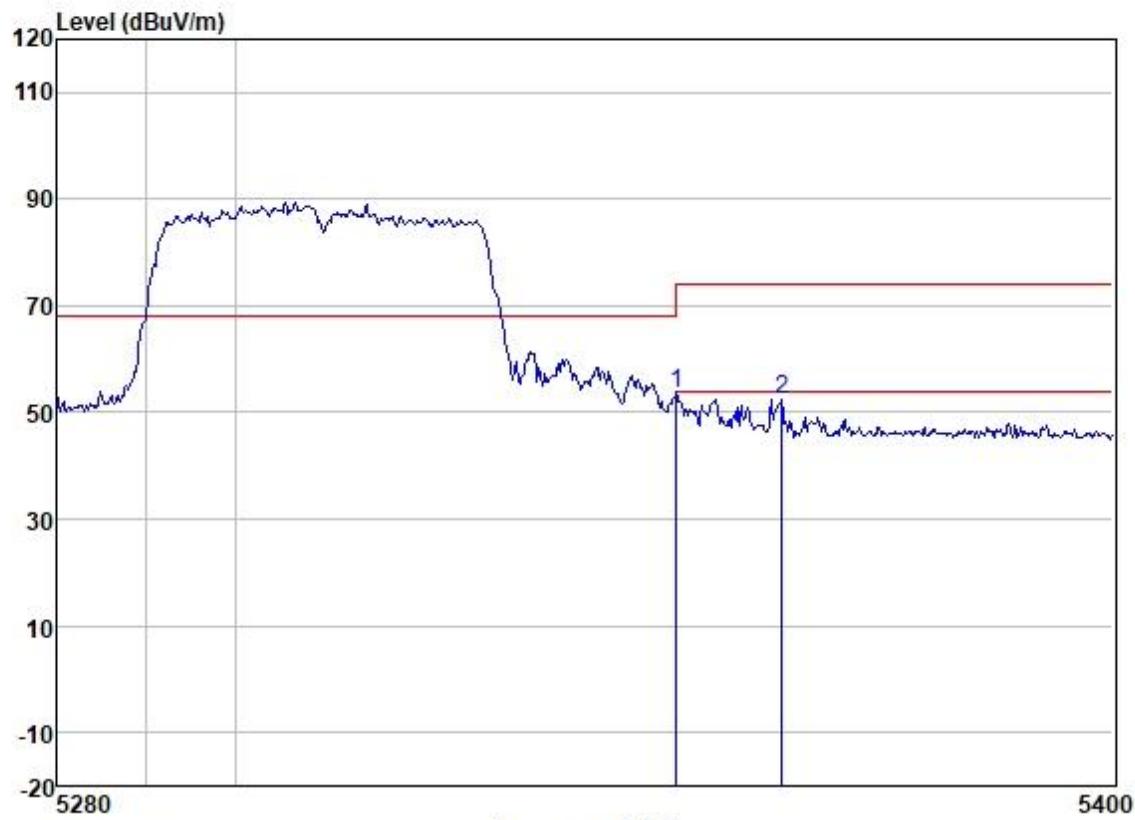
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Race	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5350.000	50.69	33.04	6.05	36.24	53.54	68.20	-14.66	HORIZONTAL	Peak
2	5362.029	49.74	33.03	6.03	36.24	52.56	74.00	-21.44	HORIZONTAL	Peak

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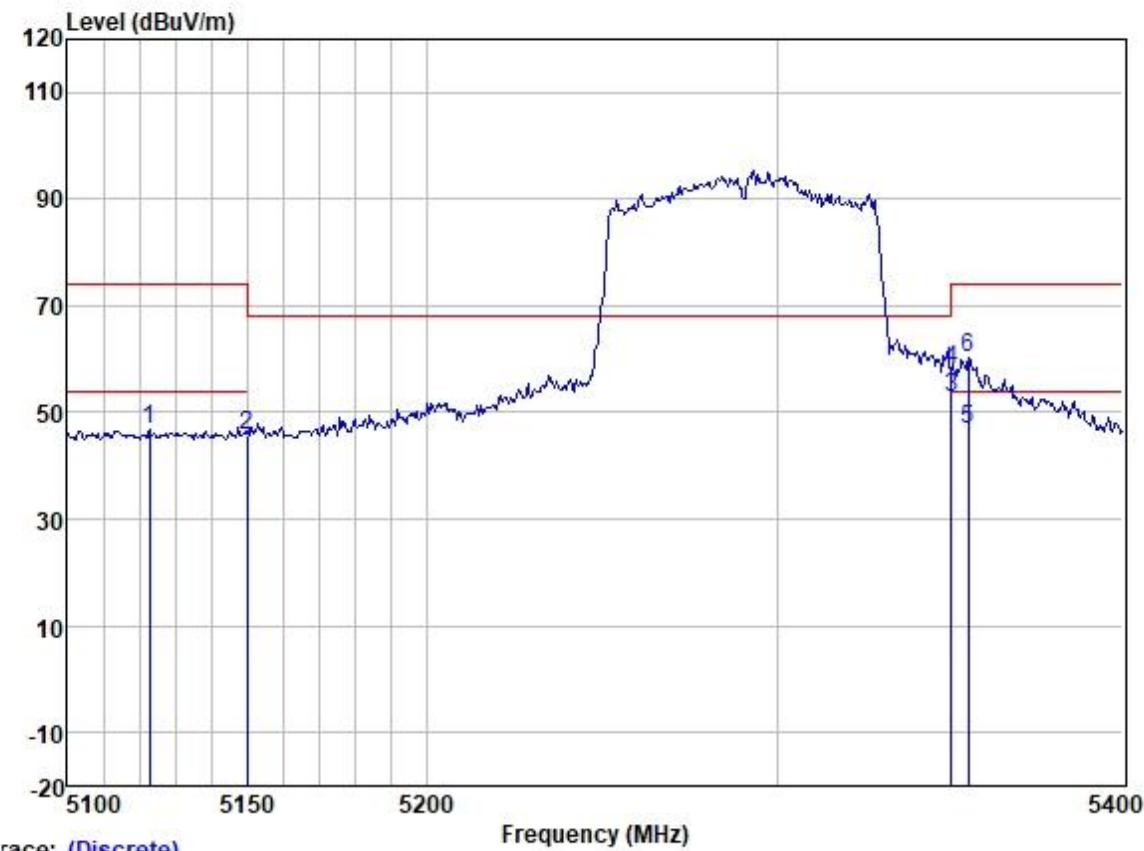
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Rate: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5122.789	44.29	33.21	5.64	36.32	46.82	74.00	-27.18	VERTICAL Peak
2	5150.000	43.05	33.18	5.62	36.31	45.54	68.20	-22.66	VERTICAL Peak
3	5350.000	50.08	33.04	6.05	36.24	52.93	54.00	-1.07	VERTICAL Average
4	5350.000	55.21	33.04	6.05	36.24	58.06	68.20	-10.14	VERTICAL Peak
5	5354.818	43.95	33.03	6.03	36.24	46.77	54.00	-7.23	VERTICAL Average
6	5354.818	57.55	33.03	6.03	36.24	60.37	74.00	-13.63	VERTICAL Peak

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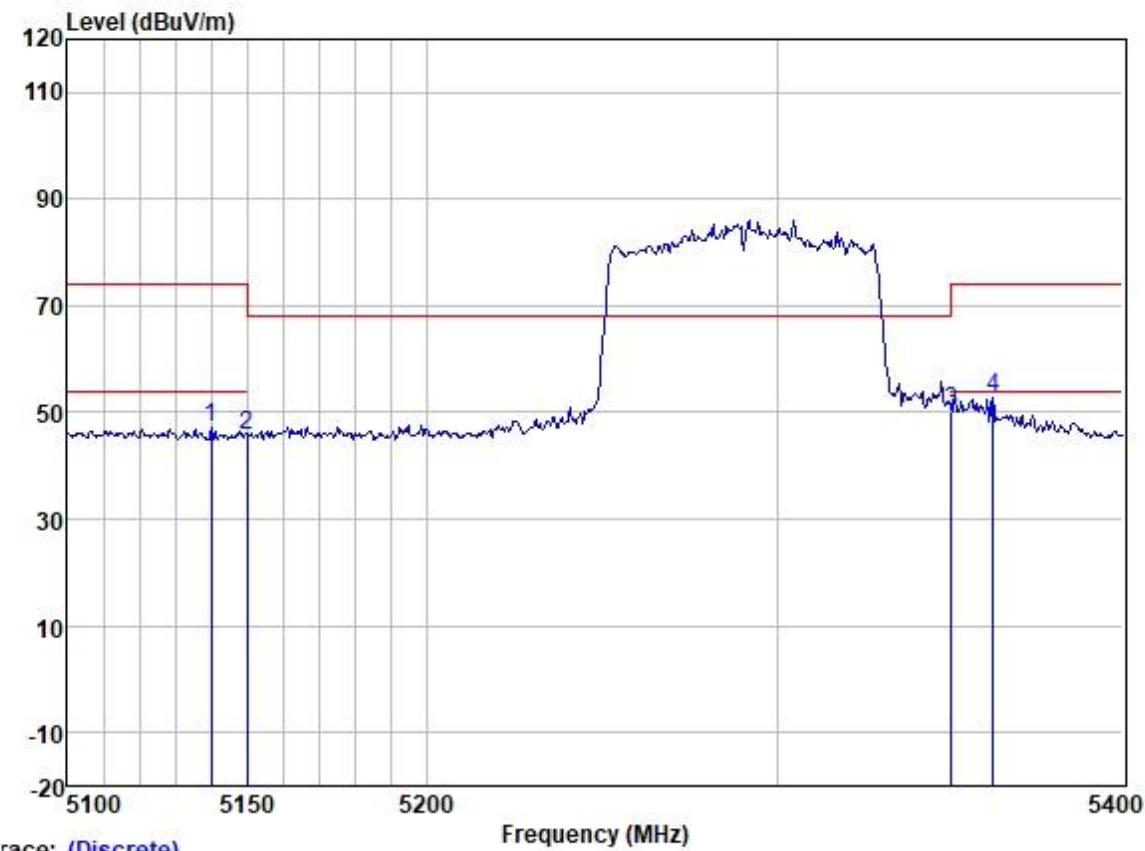
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Rate: (Discrete)

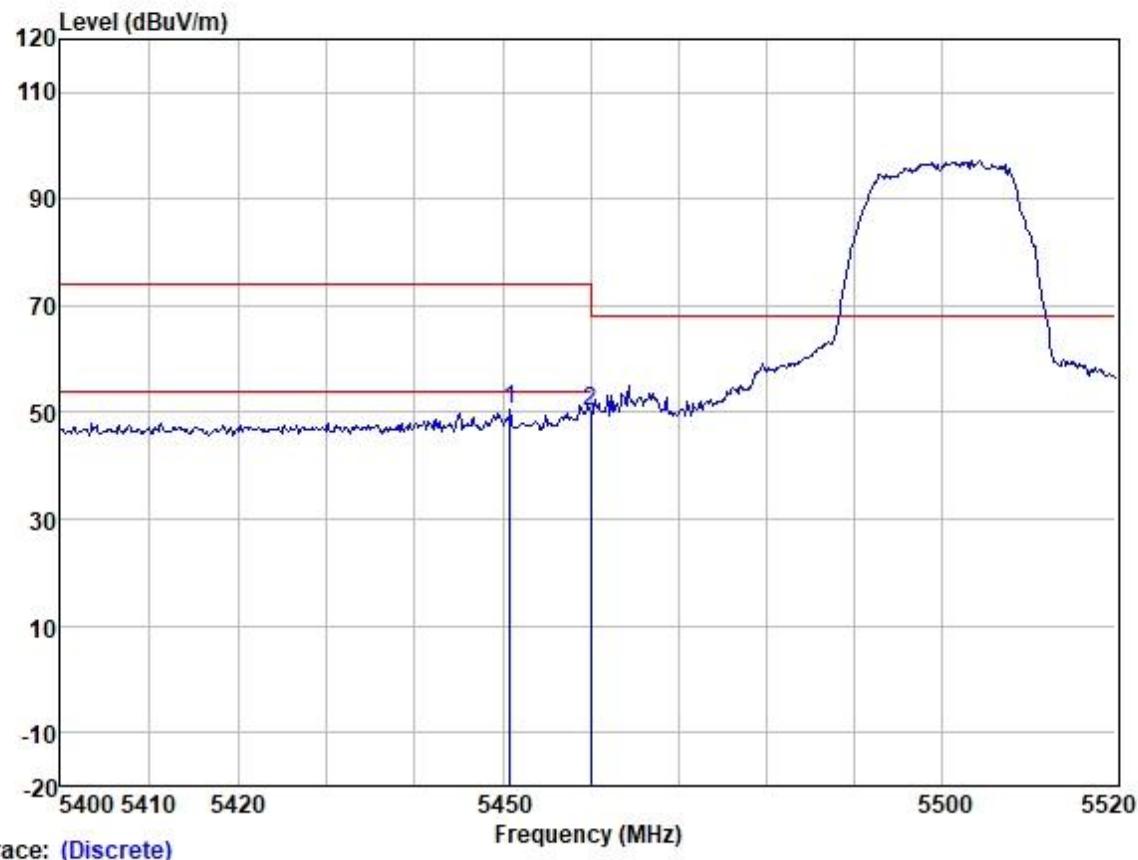
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Line		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	
1	5139.800	44.85	33.19	5.63	36.31	47.36	74.00	-26.64 HORIZONTAL Peak
2	5150.000	43.36	33.18	5.62	36.31	45.85	68.20	-22.35 HORIZONTAL Peak
3	5350.000	47.48	33.04	6.05	36.24	50.33	68.20	-17.87 HORIZONTAL Peak
4	5362.168	49.97	33.03	6.03	36.24	52.79	74.00	-21.21 HORIZONTAL Peak

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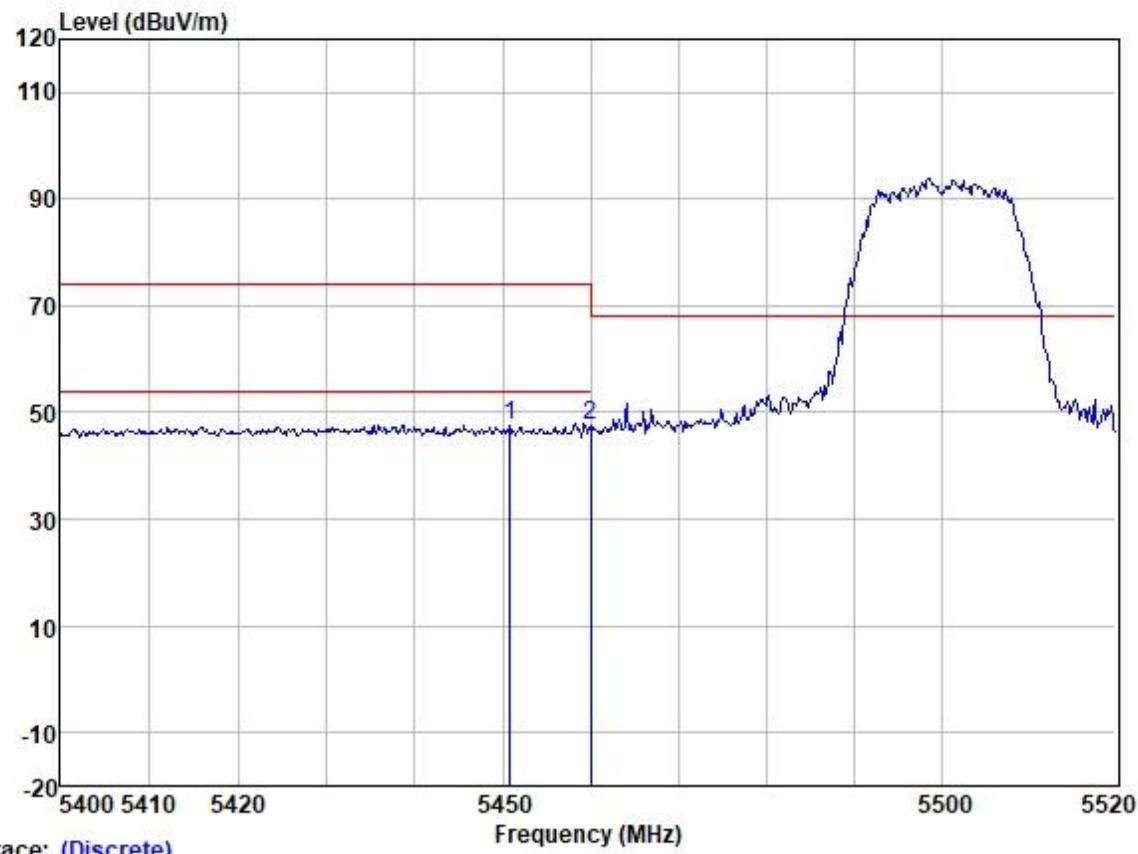
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



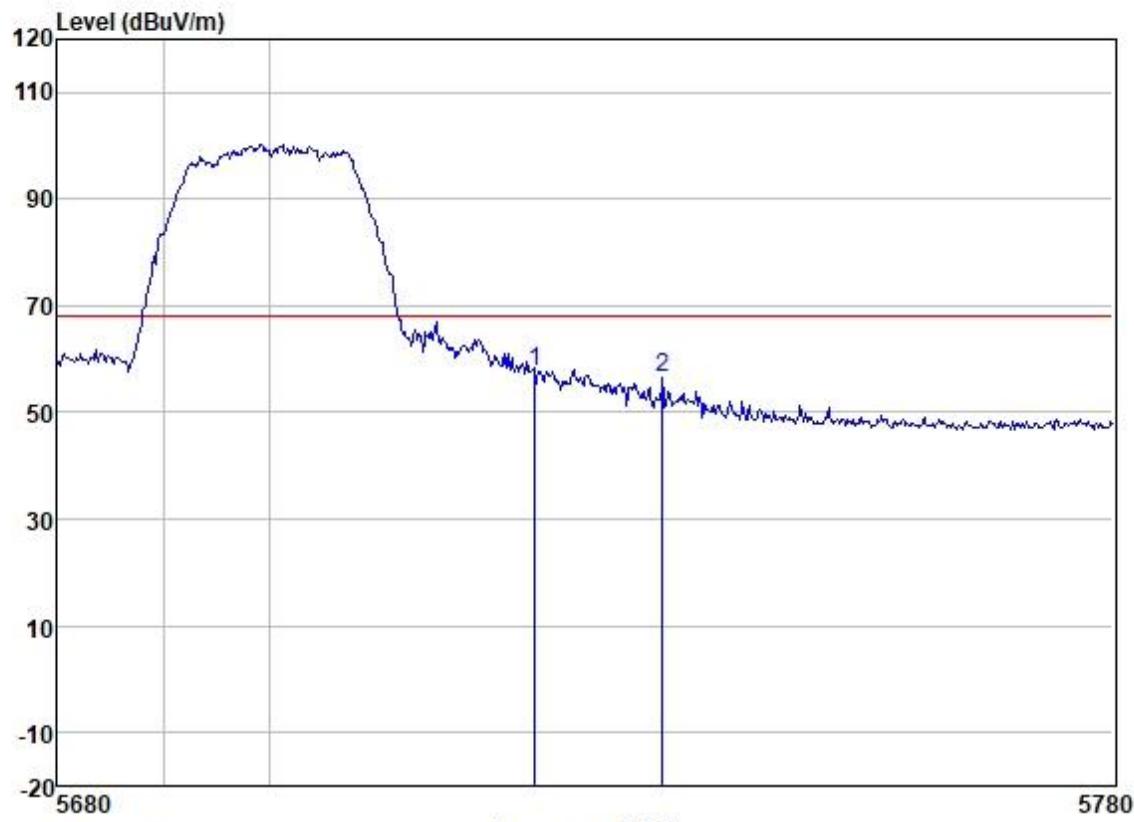
Race	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5450.798	47.64	33.03	6.26	36.21	50.72	74.00	-23.28	VERTICAL	Peak
2	5460.000	46.94	33.03	6.26	36.21	50.02	68.20	-18.18	VERTICAL	Peak



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



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



Race: (Discrete)

Race	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Remark
		MHz	dBuV	Level	Factor						
1	5725.000	53.73	33.79	6.25	36.15	57.62	68.20	-10.58	VERTICAL	Peak	
2	5737.086	52.73	33.79	6.25	36.15	56.62	68.20	-11.58	VERTICAL	Peak	

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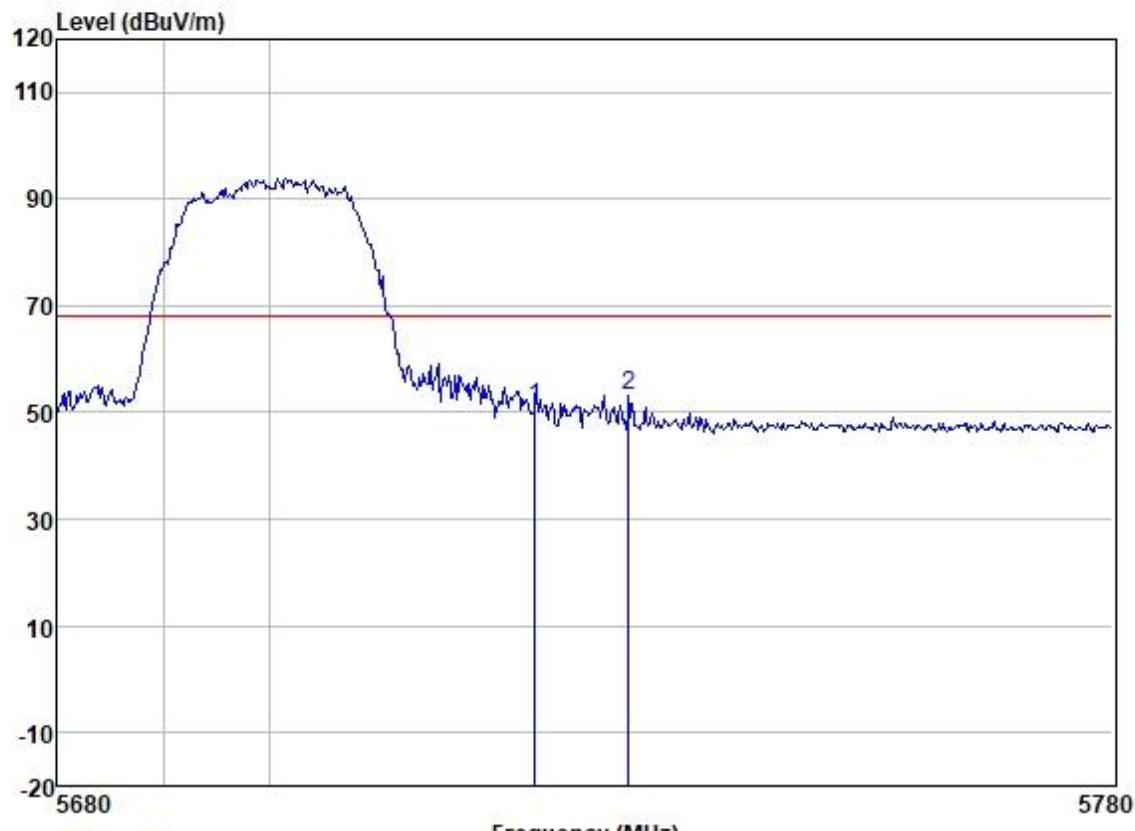
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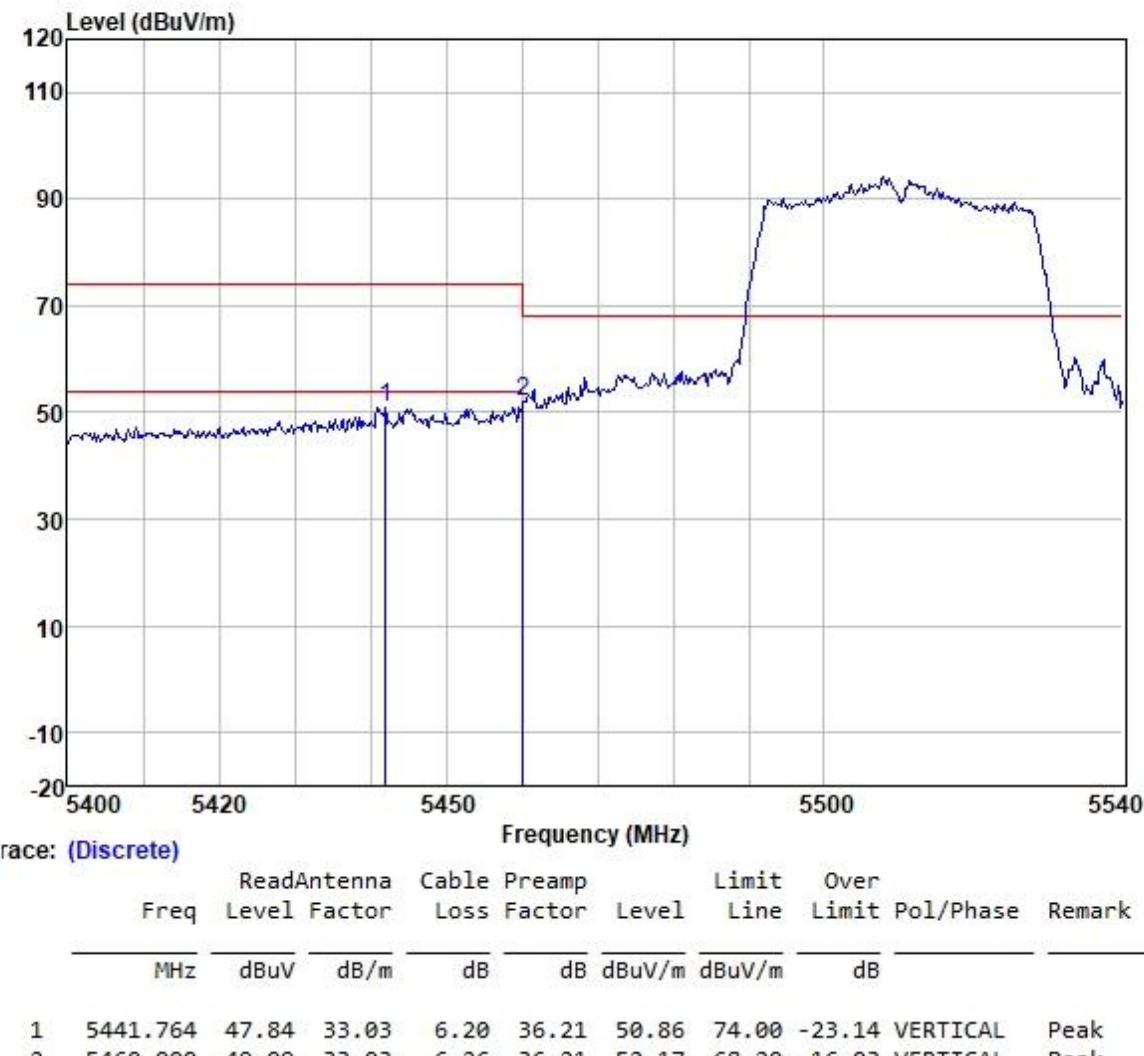
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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



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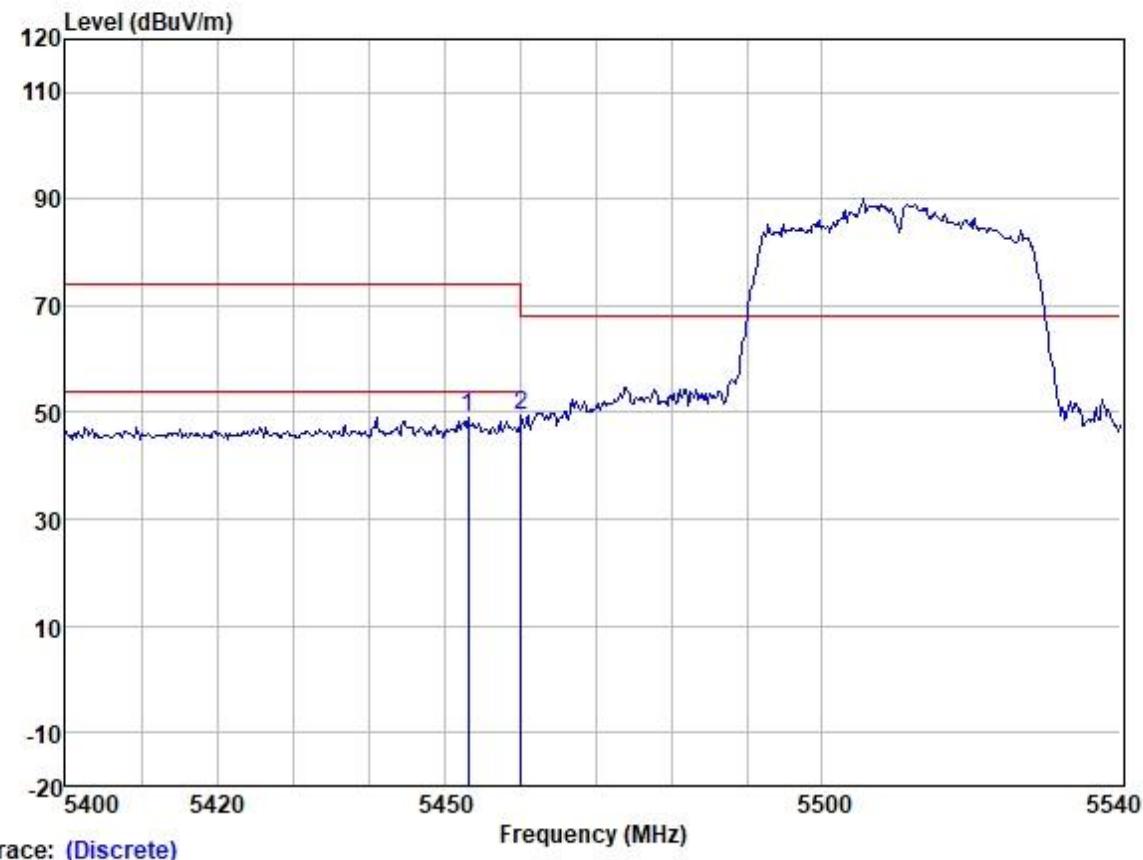
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5453.058	45.96	33.03	6.26	36.21	49.04	74.00	-24.96	HORIZONTAL	Peak
2	5460.000	46.35	33.03	6.26	36.21	49.43	68.20	-18.77	HORIZONTAL	Peak

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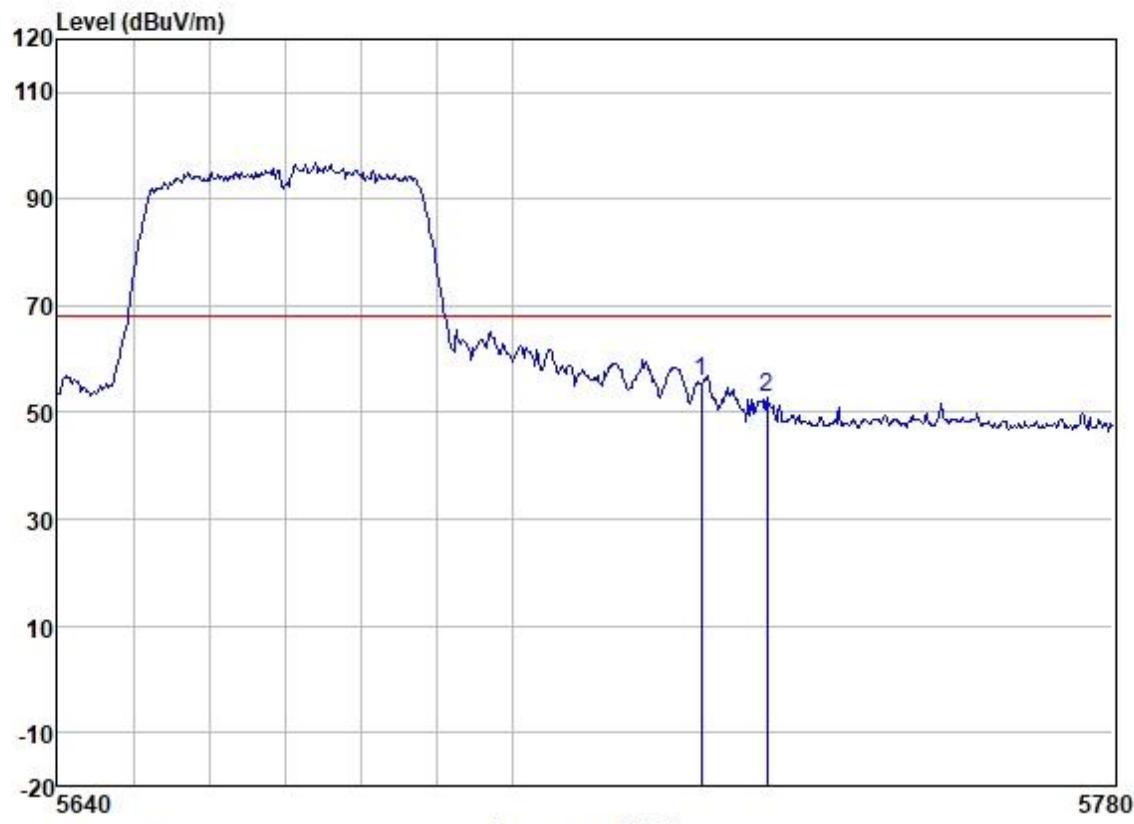


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

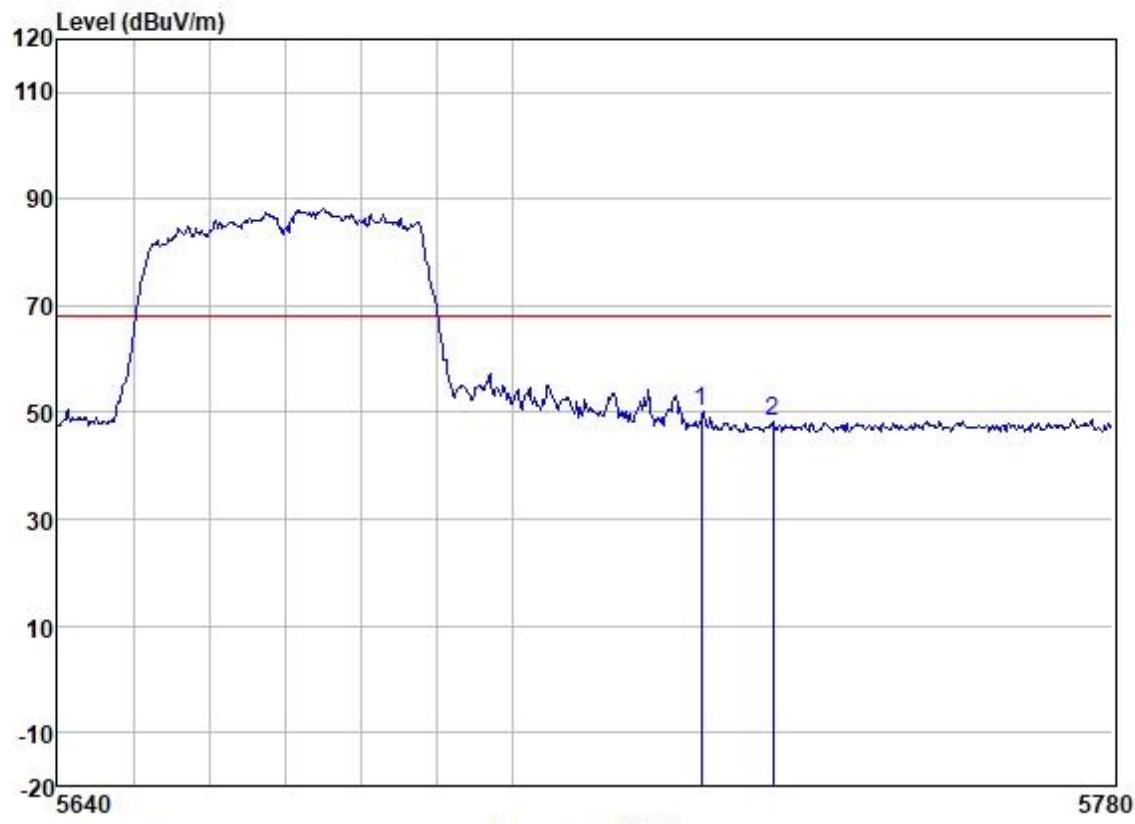
Race	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m			
1	5725.000	51.90	33.79	6.25	36.15	55.79	68.20	-12.41	VERTICAL	Peak
2	5733.701	48.77	33.79	6.25	36.15	52.66	68.20	-15.54	VERTICAL	Peak



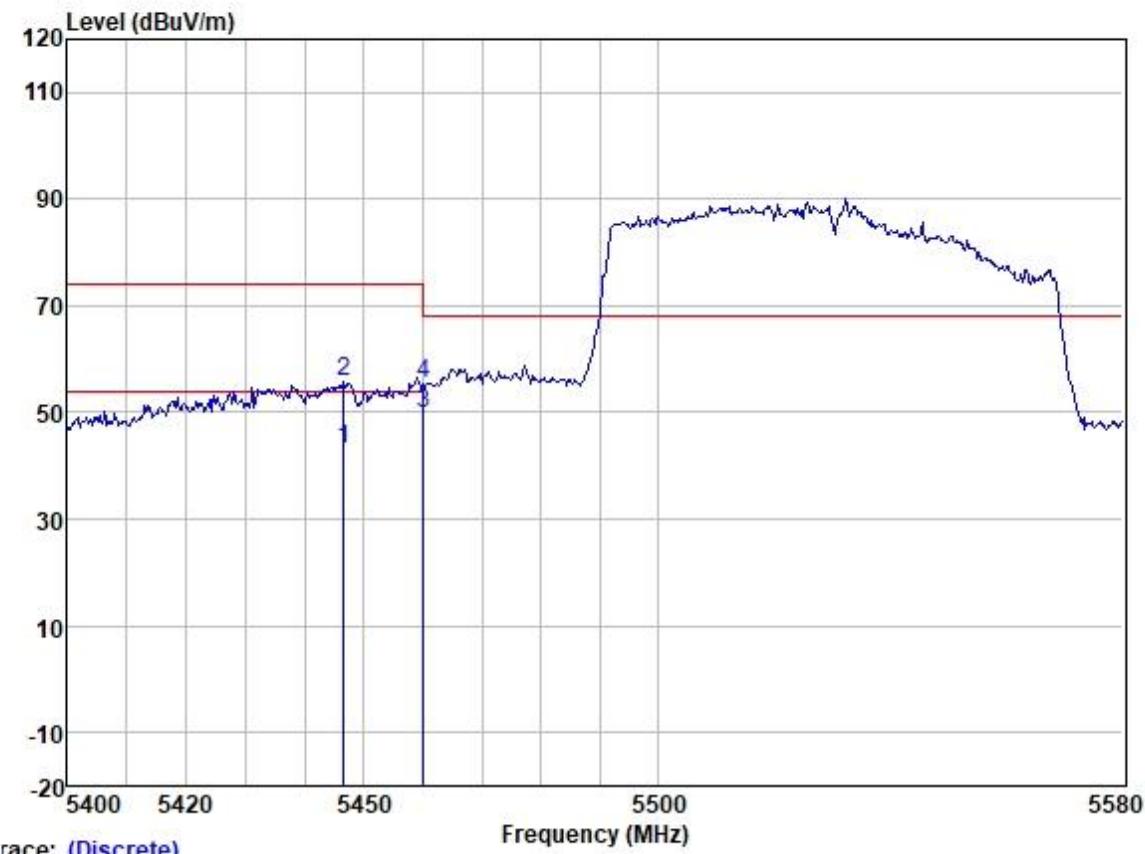
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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



Rate: (Discrete)

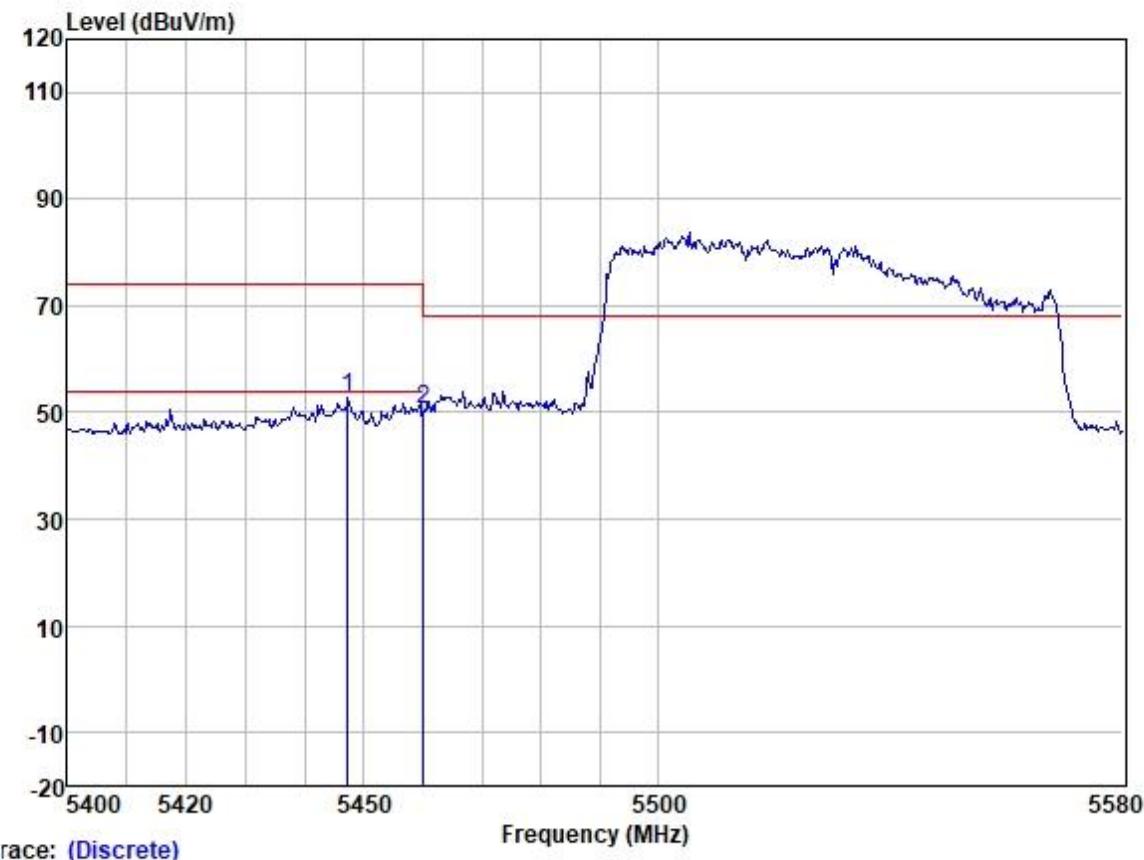
Freq	ReadAntenna Level	Antenna Factor	Cable Loss		Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
			dB	dB/m						
1	5446.591	40.26	33.03	6.20	36.21	43.28	54.00	-10.72	VERTICAL	Average
2	5446.591	52.59	33.03	6.20	36.21	55.61	74.00	-18.39	VERTICAL	Peak
3	5460.000	46.57	33.03	6.26	36.21	49.65	54.00	-4.35	VERTICAL	Average
4	5460.000	52.18	33.03	6.26	36.21	55.26	68.20	-12.94	VERTICAL	Peak



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



Race: (Discrete)

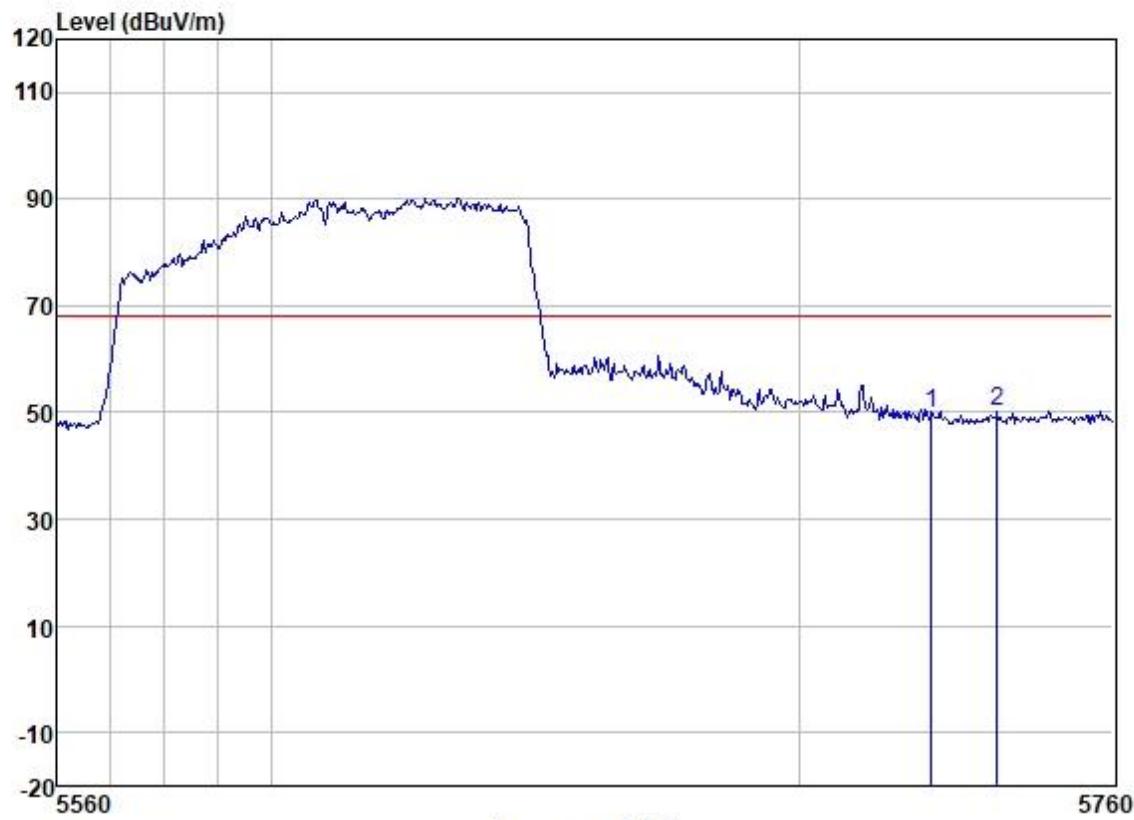
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5447.305	49.79	33.03	6.20	36.21	52.81	74.00	-21.19	HORIZONTAL Peak
2	5460.000	47.38	33.03	6.26	36.21	50.46	68.20	-17.74	HORIZONTAL Peak



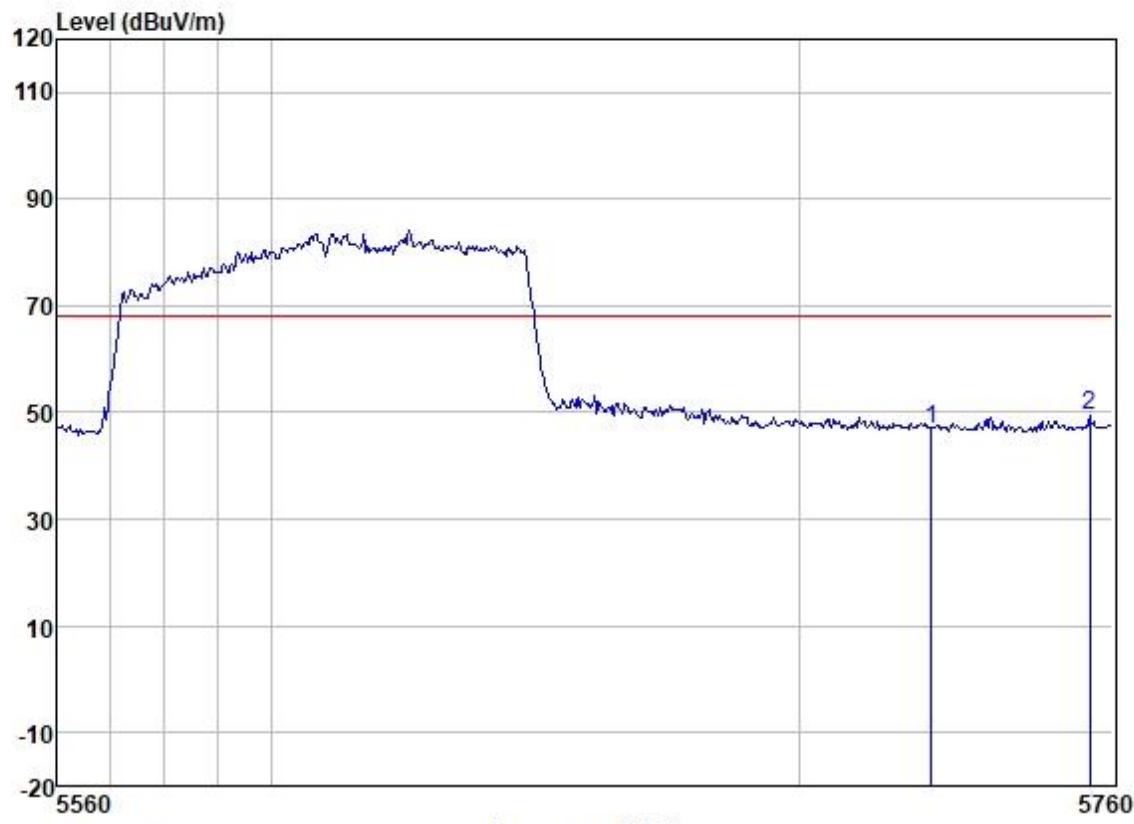
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



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



Race: (Discrete)

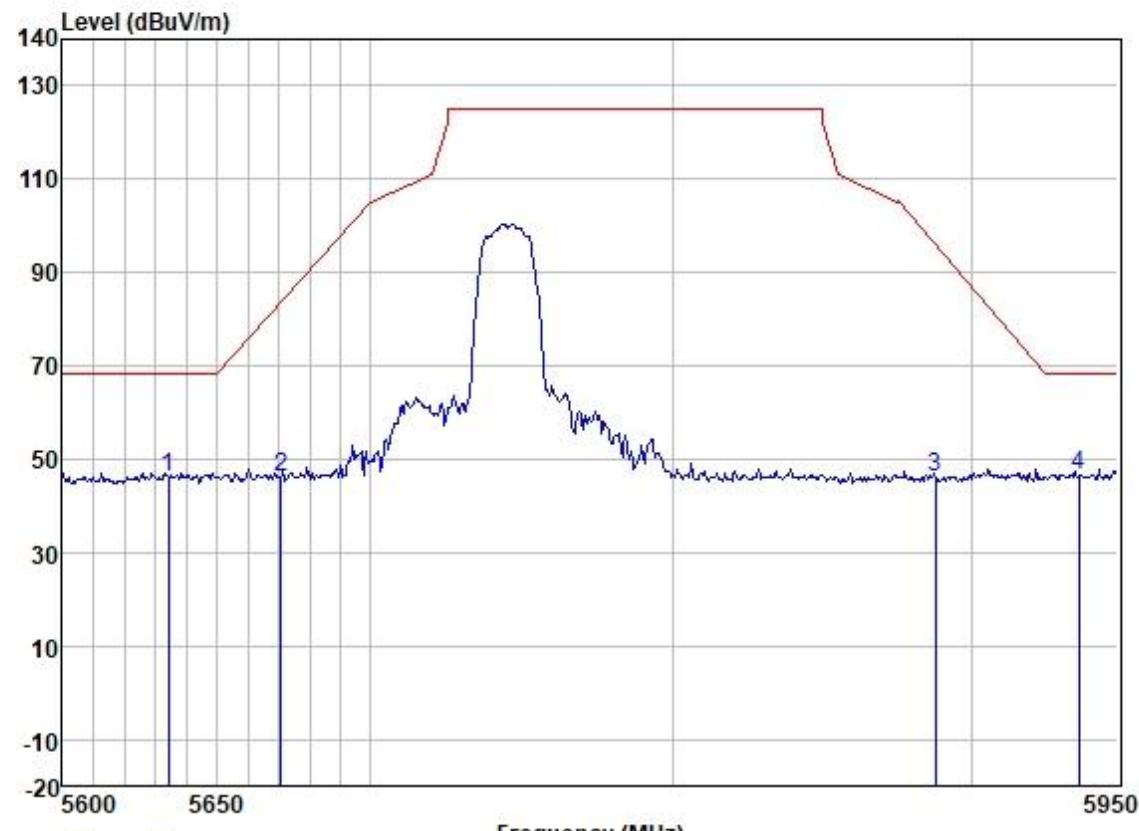
Race	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
		MHz	dBuV	Level	Factor							
1	5725.000	43.10	33.79	6.25	36.15	46.99	68.20	-21.21	HORIZONTAL	Peak		
2	5755.523	45.31	33.97	6.15	36.14	49.29	68.20	-18.91	HORIZONTAL	Peak		



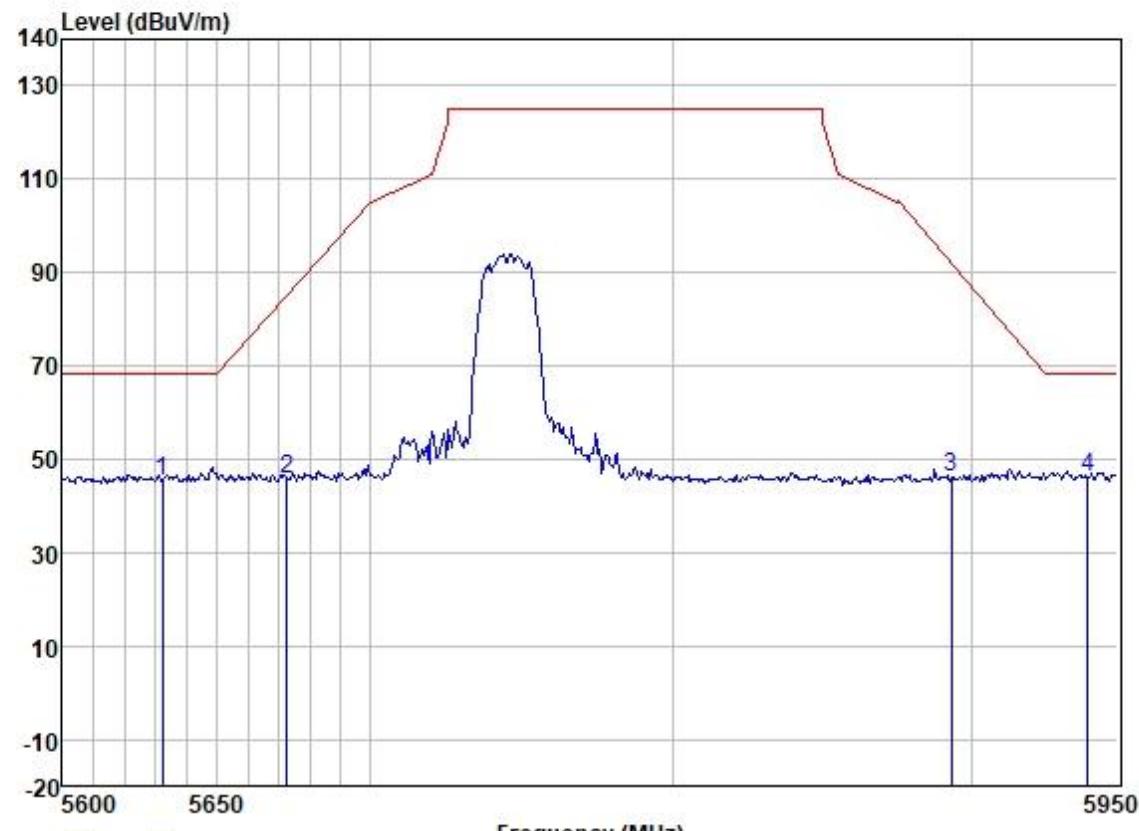
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Rate: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Line	Level	Loss	Factor	Line	Line		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1 5632.345	43.14	31.93	6.33	36.17	45.23	68.20	-22.97	HORIZONTAL Peak
2 5672.782	43.54	31.99	6.38	36.16	45.75	85.10	-39.35	HORIZONTAL Peak
3 5893.279	44.11	32.31	5.90	36.12	46.20	91.68	-45.48	HORIZONTAL Peak
4 5939.548	43.98	32.34	6.00	36.11	46.21	68.20	-21.99	HORIZONTAL Peak

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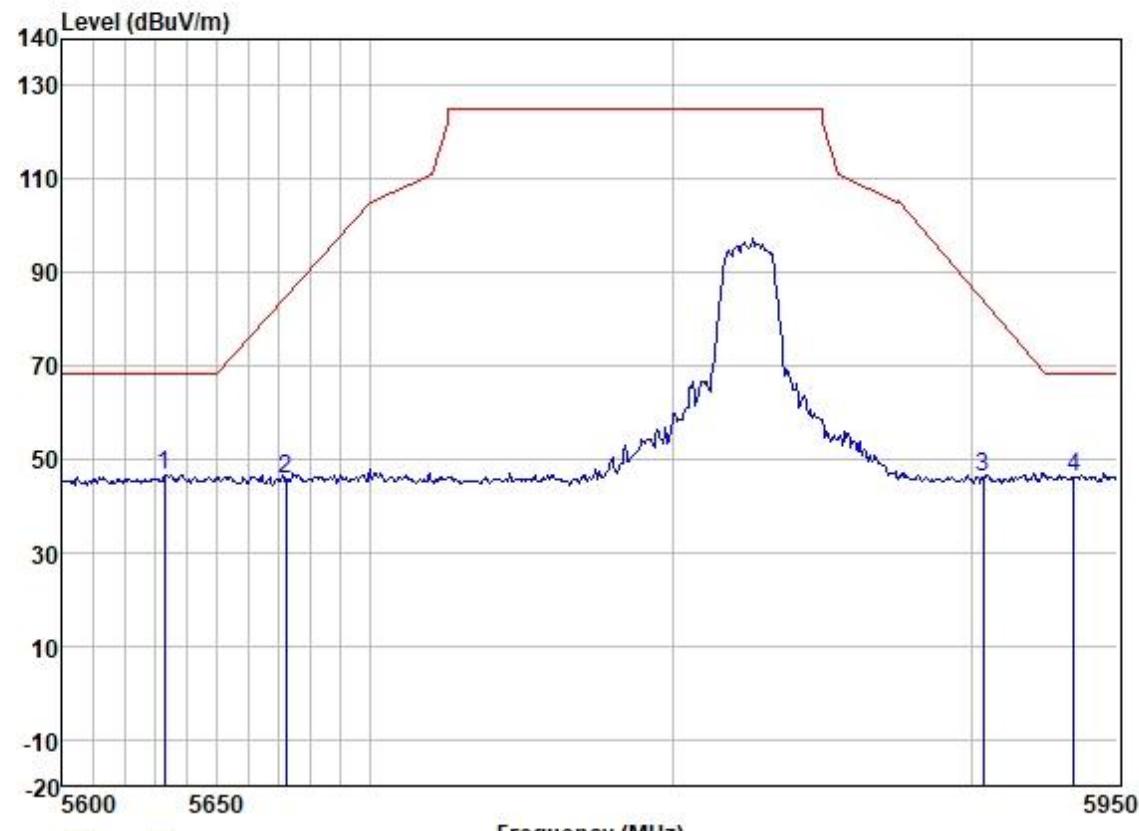
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Rate: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 5633.028	44.40	31.93	6.33	36.17	46.49	68.20	-21.71	VERTICAL	Peak
2 5672.438	43.38	31.97	6.37	36.16	45.56	84.84	-39.28	VERTICAL	Peak
3 5904.007	43.96	32.31	5.90	36.12	46.05	83.73	-37.68	VERTICAL	Peak
4 5934.869	43.93	32.34	6.00	36.11	46.16	68.20	-22.04	VERTICAL	Peak

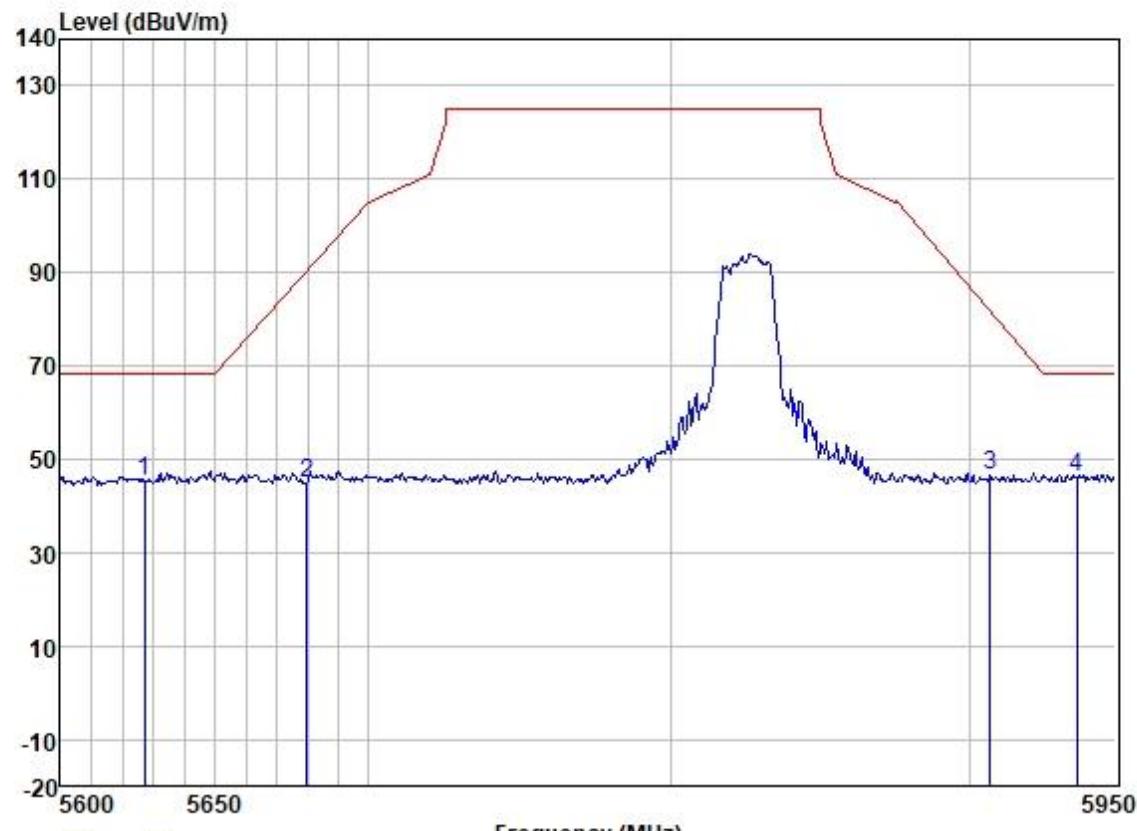
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Race:	Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	Level Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB	
1	5627.226	43.18	31.93	6.33	36.17	45.27	68.20	-22.93	HORIZONTAL	Peak	
2	5679.665	42.78	31.99	6.38	36.16	44.99	90.19	-45.20	HORIZONTAL	Peak	
3	5907.229	44.19	32.33	5.95	36.12	46.35	81.34	-34.99	HORIZONTAL	Peak	
4	5936.668	43.73	32.34	6.00	36.11	45.96	68.20	-22.24	HORIZONTAL	Peak	

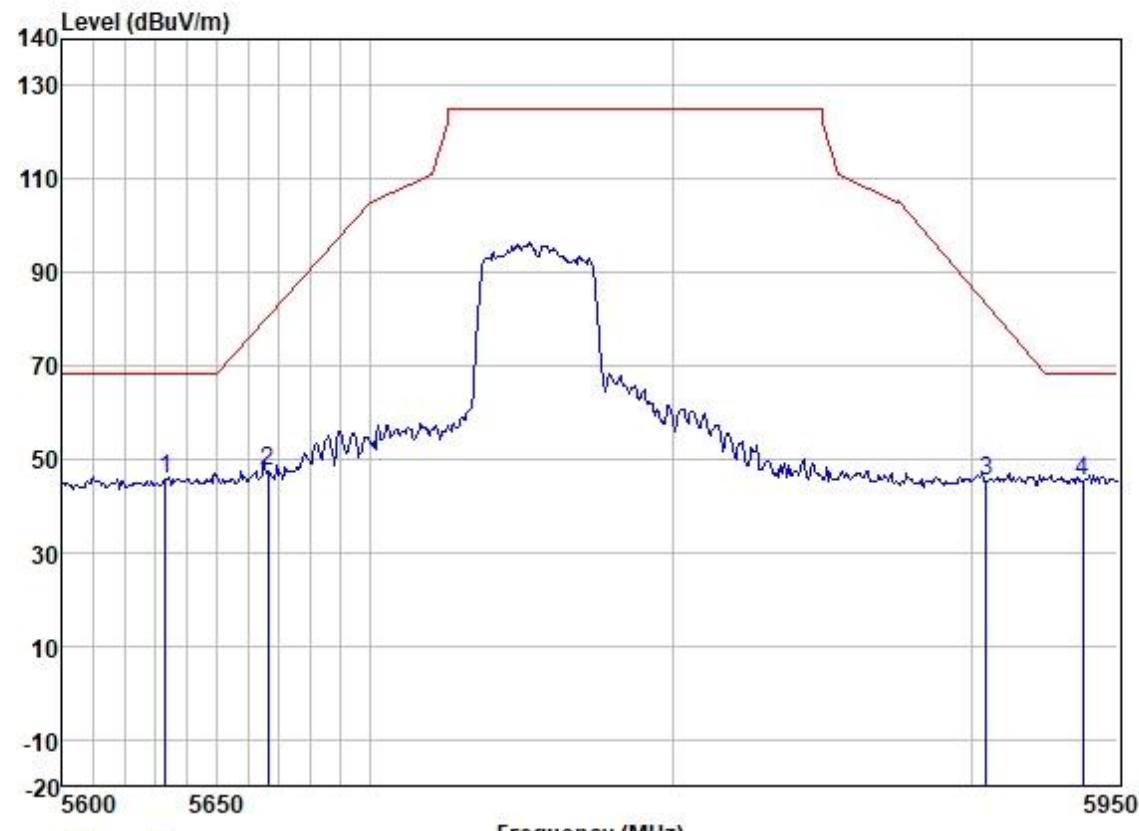
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5633.370	43.63	31.93	6.33	36.17	45.72	68.20	-22.48	VERTICAL	Peak
2	5666.595	45.03	31.97	6.37	36.16	47.21	80.52	-33.31	VERTICAL	Peak
3	5905.081	43.04	32.31	5.90	36.12	45.13	82.93	-37.80	VERTICAL	Peak
4	5938.108	43.20	32.34	6.00	36.11	45.43	68.20	-22.77	VERTICAL	Peak

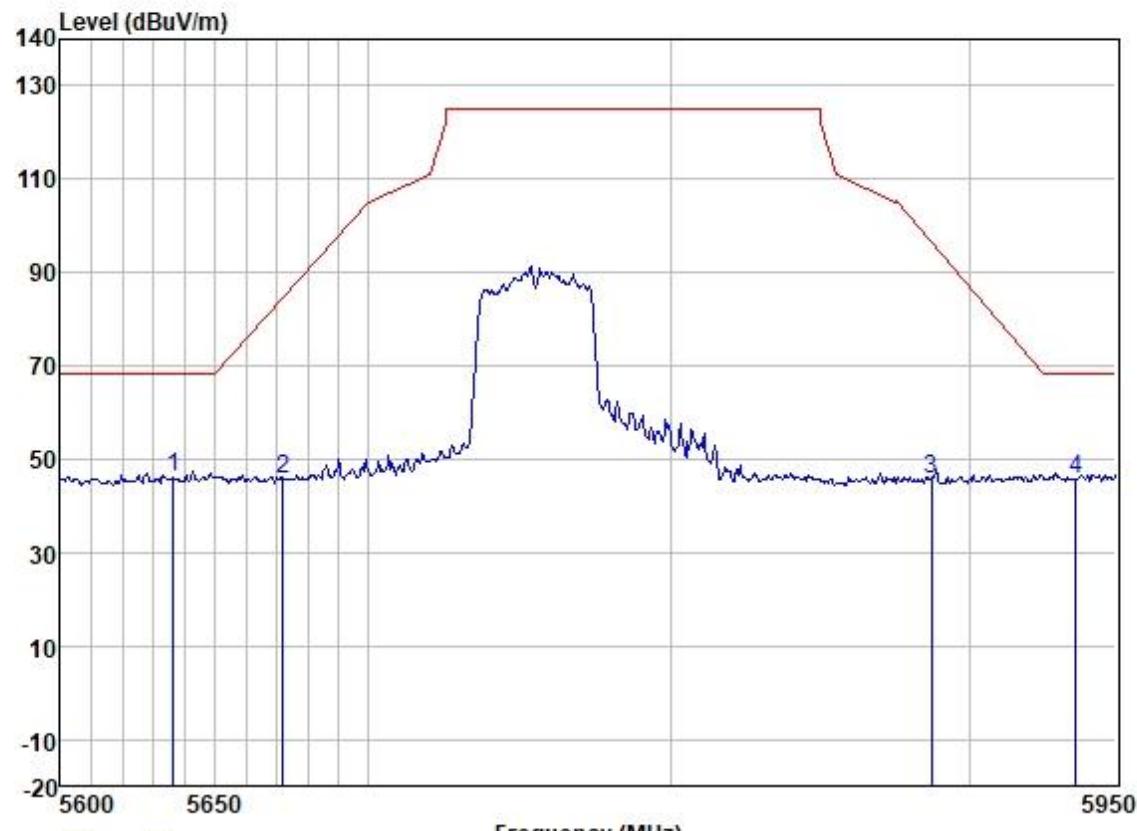
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5636.444	44.01	31.93	6.33	36.17	46.10	68.20	-22.10	HORIZONTAL	Peak
2	5672.094	43.65	31.97	6.37	36.16	45.83	84.59	-38.76	HORIZONTAL	Peak
3	5887.208	43.71	32.29	5.93	36.12	45.81	96.19	-50.38	HORIZONTAL	Peak
4	5936.309	43.38	32.34	6.00	36.11	45.61	68.20	-22.59	HORIZONTAL	Peak

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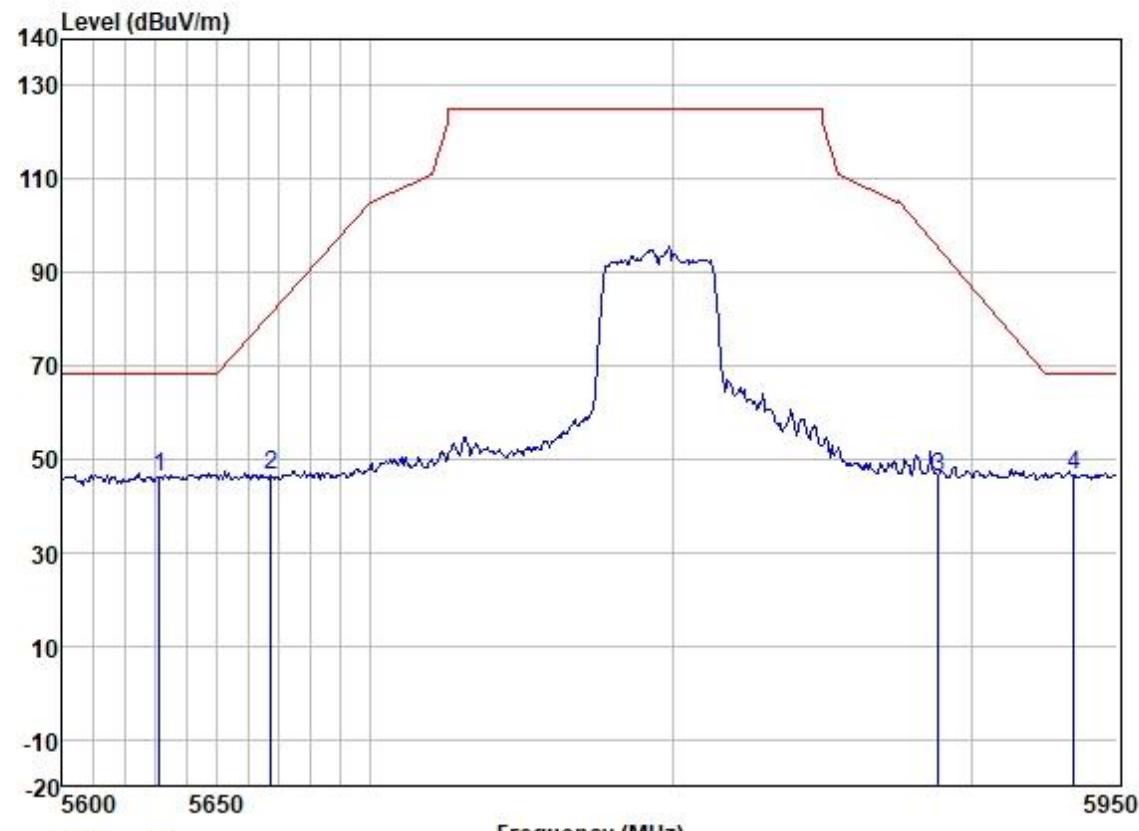
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line		
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1	5631.321	43.99	31.93	6.33	36.17	46.08	68.20	-22.12 VERTICAL Peak
2	5667.625	44.19	31.97	6.37	36.16	46.37	81.28	-34.91 VERTICAL Peak
3	5888.993	44.16	32.29	5.93	36.12	46.26	94.86	-48.60 VERTICAL Peak
4	5934.869	44.20	32.34	6.00	36.11	46.43	68.20	-21.77 VERTICAL Peak

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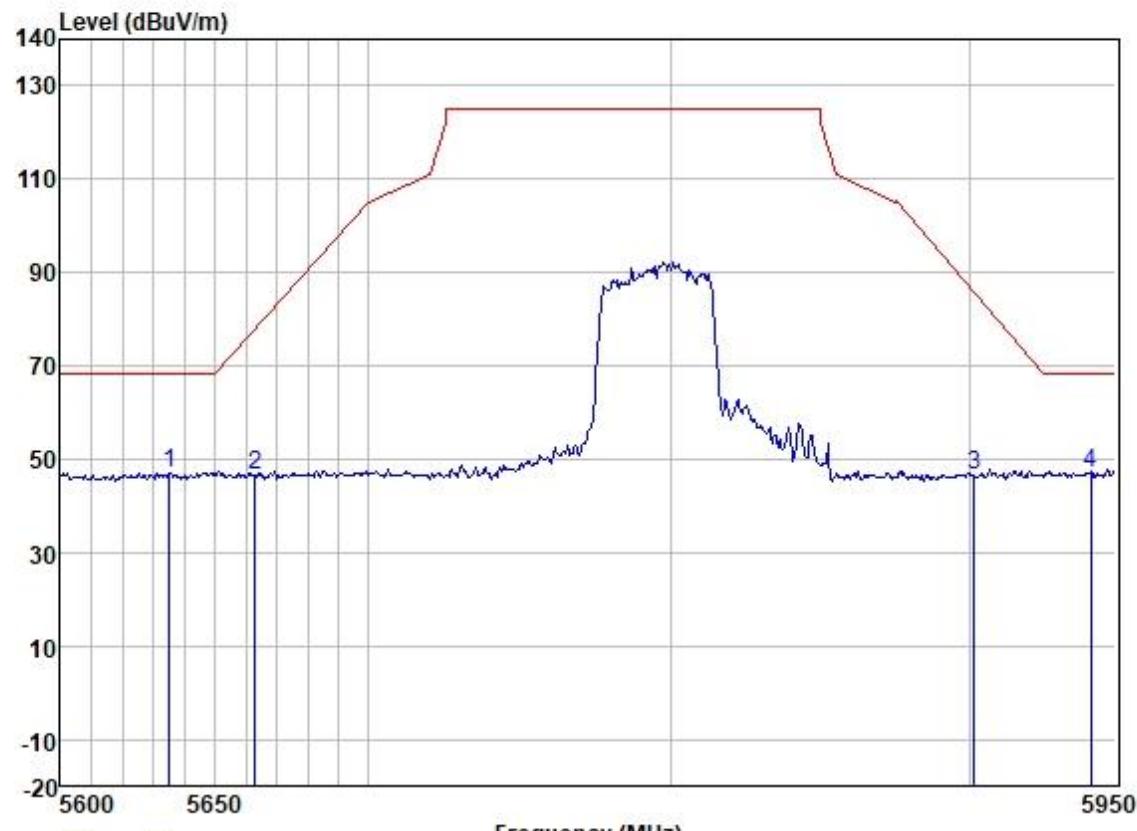
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Race	Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
		MHz	dBuV	dB/m	Loss	Factor	dB	dBuV/m	dBuV/m	dB	
1	5635.078	44.81	31.93	6.33	36.17	46.90	68.20	-21.30	HORIZONTAL	Peak	
2	5662.817	44.23	31.97	6.37	36.16	46.41	77.72	-31.31	HORIZONTAL	Peak	
3	5901.860	44.36	32.31	5.90	36.12	46.45	85.32	-38.87	HORIZONTAL	Peak	
4	5941.349	44.82	32.36	6.05	36.11	47.12	68.20	-21.08	HORIZONTAL	Peak	

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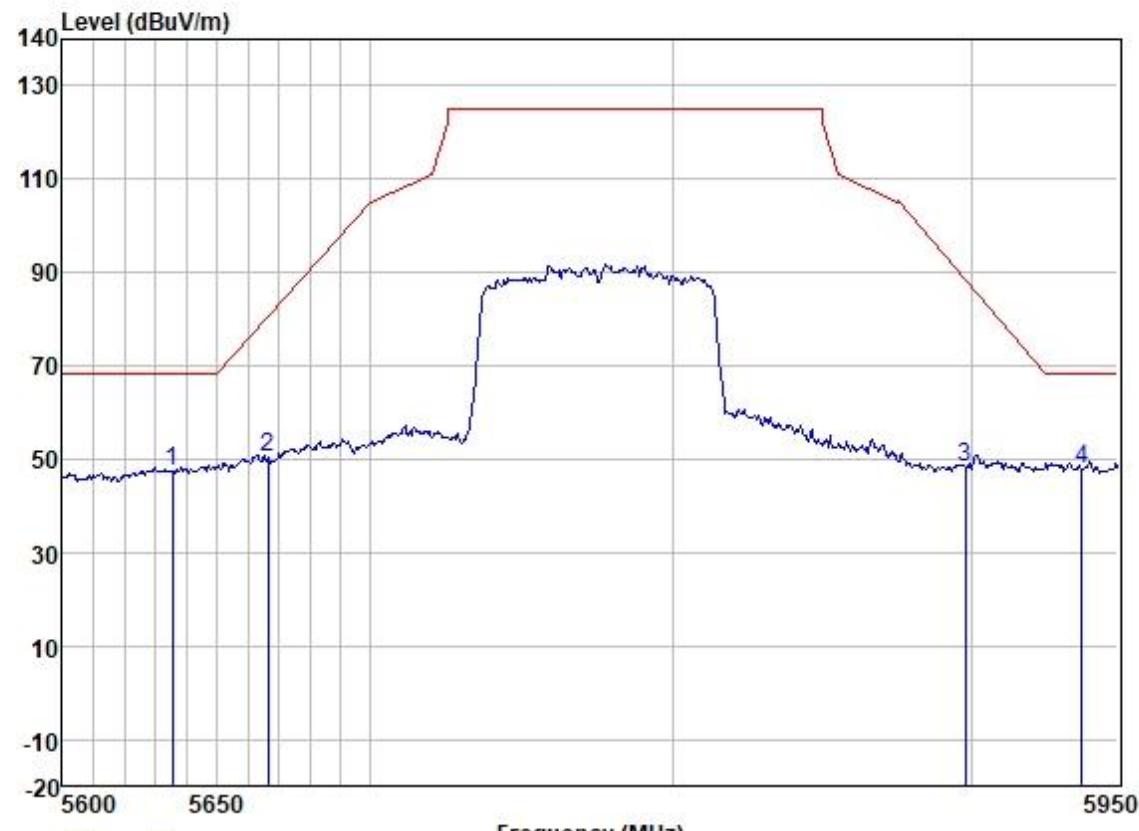
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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Rate: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line		
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1	5635.419	45.48	31.93	6.33	36.17	47.57	68.20	-20.63 VERTICAL Peak
2	5666.595	48.11	31.97	6.37	36.16	50.29	80.52	-30.23 VERTICAL Peak
3	5897.925	46.30	32.31	5.90	36.12	48.39	88.23	-39.84 VERTICAL Peak
4	5937.748	45.69	32.34	6.00	36.11	47.92	68.20	-20.28 VERTICAL Peak

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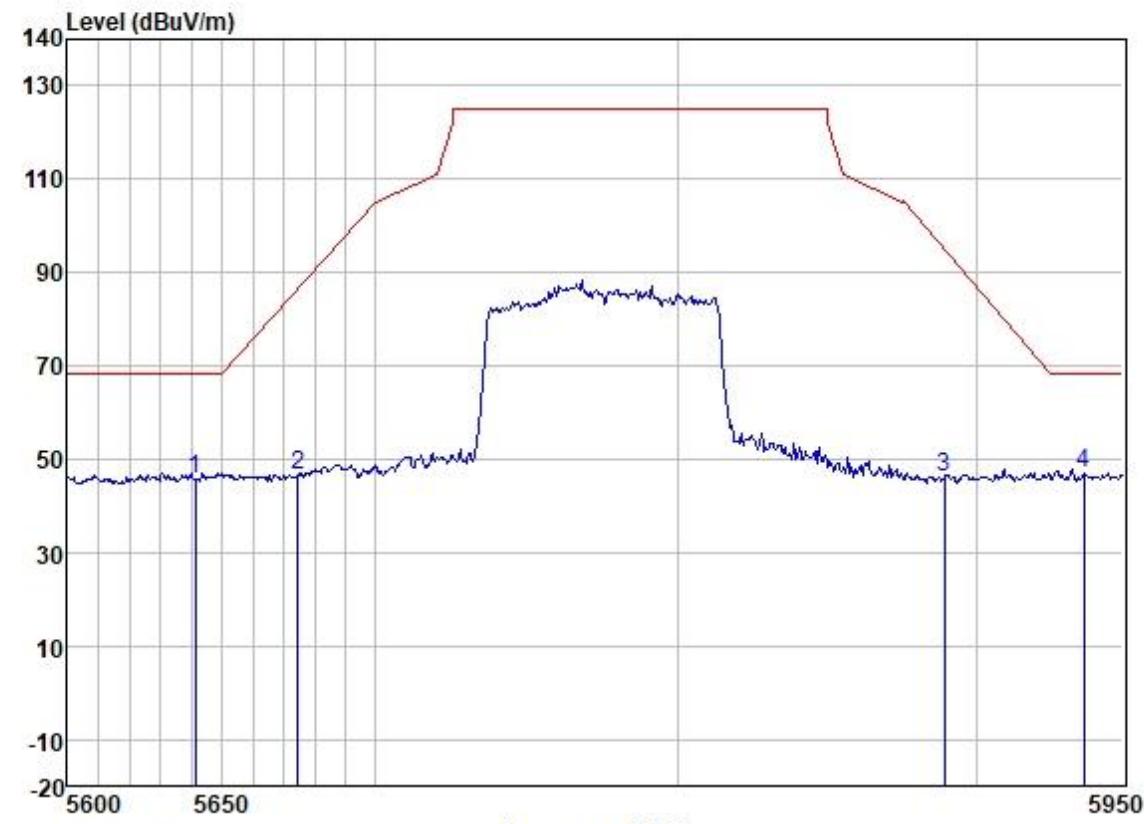
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Race: (Discrete)	Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	Level Factor	Loss Factor	dB	dB	dBuV/m	dBuV/m	dB	
1	5641.230	43.45	31.95	6.35	36.16	45.59	68.20	-22.61	HORIZONTAL	Peak	
2	5674.502	44.23	31.99	6.38	36.16	46.44	86.37	-39.93	HORIZONTAL	Peak	
3	5889.350	44.19	32.29	5.93	36.12	46.29	94.60	-48.31	HORIZONTAL	Peak	
4	5936.668	44.75	32.34	6.00	36.11	46.98	68.20	-21.22	HORIZONTAL	Peak	

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## 7.10 Frequency Stability

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

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

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C      Humidity: 65 % RH      Atmospheric Pressure: 1014 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	05	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);, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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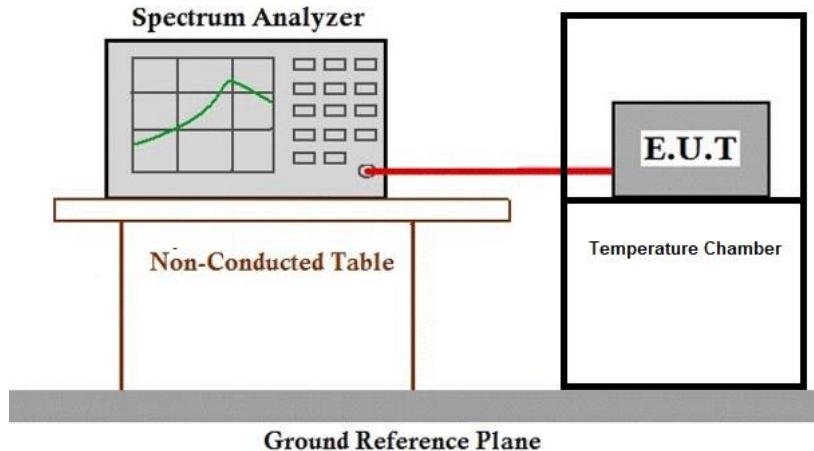
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**7.10.3 Test Setup Diagram****7.10.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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**7.11 Radiated Emissions (Below 1GHz)**

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

Test Method: KDB 789033 D02 II G

Test Distance: 3 m

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: 22.9 °C      Humidity: 52.7 % RH      Atmospheric Pressure: 1015 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	03	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	04	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

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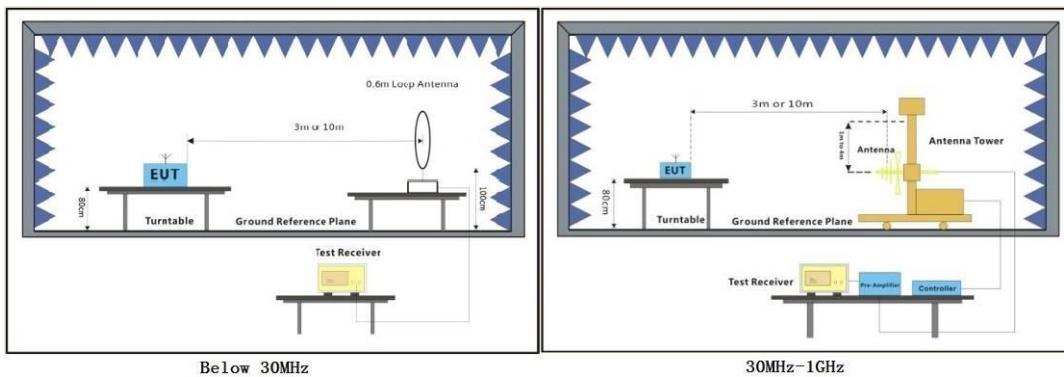


of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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);, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

Pre-scan 05

### 7.11.3 Test Setup Diagram



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**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:**

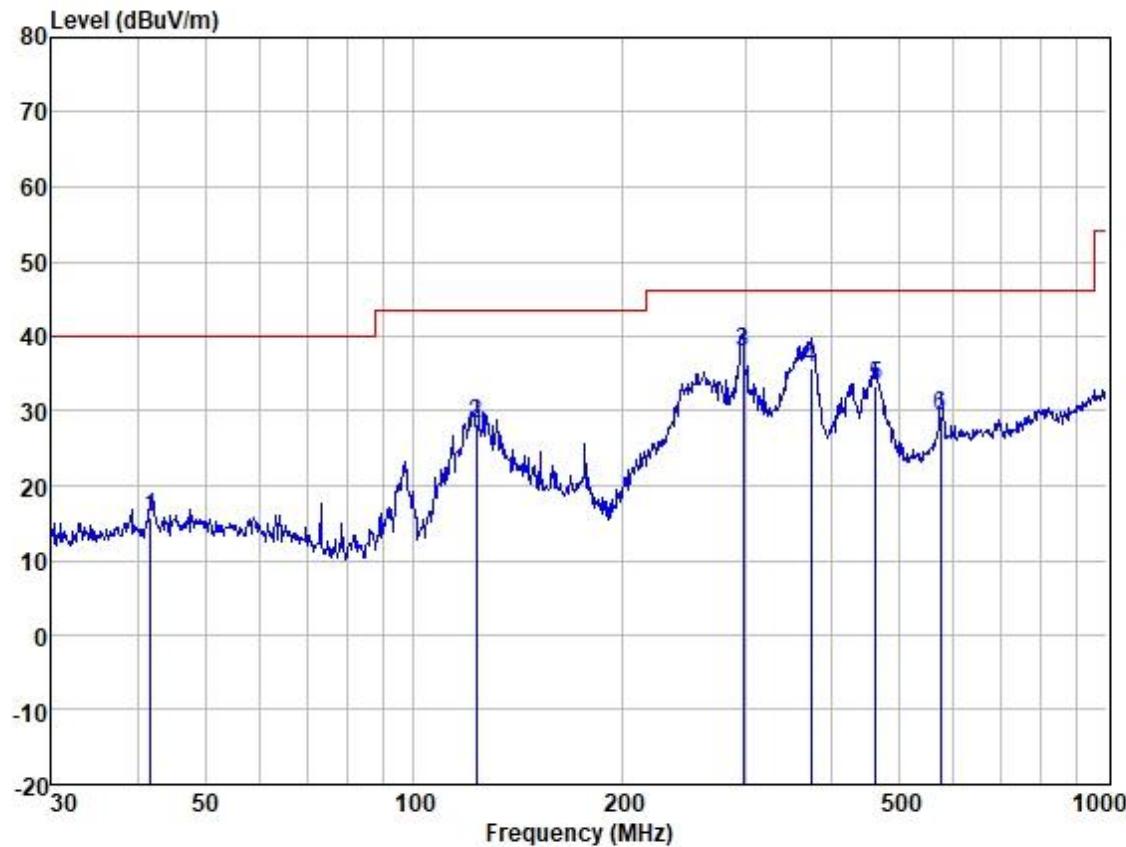
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked 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.



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Test Mode: 02; Polarity: Horizontal



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	41.713	28.64	13.66	1.10	27.61	15.79	40.00	-24.21	HORIZONTAL QP
2	122.834	42.35	11.47	1.87	27.55	28.14	43.50	-15.36	HORIZONTAL QP
3	298.268	48.56	13.38	3.22	27.20	37.96	46.00	-8.04	HORIZONTAL QP
4	373.311	44.98	14.92	3.76	27.88	35.78	46.00	-10.22	HORIZONTAL QP
5	463.970	40.33	17.16	4.27	28.45	33.31	46.00	-12.69	HORIZONTAL QP
6	574.626	34.23	19.09	4.86	28.77	29.41	46.00	-16.59	HORIZONTAL QP

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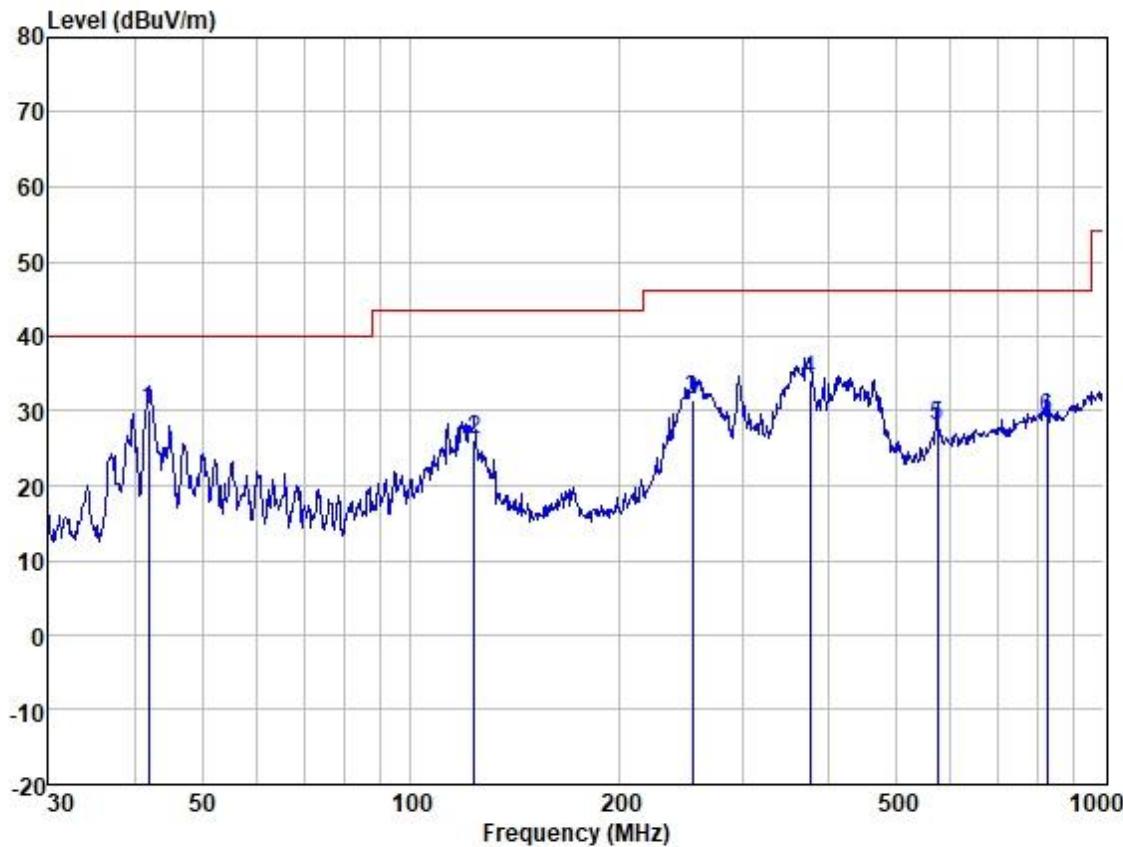


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Test Mode: 02; Polarity: Vertical



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	41.860	42.93	13.66	1.10	27.61	30.08	40.00	-9.92	VERTICAL QP
2	123.266	40.31	11.47	1.87	27.55	26.10	43.50	-17.40	VERTICAL QP
3	254.728	43.85	11.97	2.98	27.23	31.57	46.00	-14.43	VERTICAL QP
4	375.939	43.25	15.02	3.78	27.89	34.16	46.00	-11.84	VERTICAL QP
5	574.626	32.90	19.09	4.86	28.77	28.08	46.00	-17.92	VERTICAL QP
6	827.493	28.08	23.25	6.14	28.50	28.97	46.00	-17.03	VERTICAL QP

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## 8 Test Setup Photo

Refer to Appendix\_Setup Photo for GZCR221000128303



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## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2210001283AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.429	1.530	93.40	0.30	0.03
		5200	1.430	1.530	93.46	0.29	0.03
		5240	1.428	1.529	93.39	0.30	0.03
		5260	1.429	1.530	93.40	0.30	0.00
		5300	1.429	1.530	93.40	0.30	0.03
		5320	1.428	1.529	93.39	0.30	0.03
		5500	1.429	1.530	93.40	0.30	0.03
		5580	1.429	1.529	93.46	0.29	0.03
		5700	1.429	1.529	93.46	0.29	0.06
		5745	1.429	1.529	93.46	0.29	0.03
		5785	1.429	1.529	93.46	0.29	0.00
		5825	1.429	1.529	93.46	0.29	0.03
802.11n (HT20)	SISO	5180	1.337	1.437	93.04	0.31	0.06
		5200	1.337	1.437	93.04	0.31	0.03
		5240	1.337	1.437	93.04	0.31	0.06
		5260	1.337	1.438	92.98	0.32	0.03
		5300	1.337	1.437	93.04	0.31	0.03
		5320	1.337	1.438	92.98	0.32	0.03
		5500	1.337	1.438	92.98	0.32	0.03
		5580	1.337	1.437	93.04	0.31	0.03
		5700	1.337	1.437	93.04	0.31	0.03
		5745	1.337	1.437	93.04	0.31	0.00
		5785	1.337	1.437	93.04	0.31	0.06
		5825	1.337	1.438	92.98	0.32	0.00
802.11n (HT40)	SISO	5190	0.664	0.766	86.68	0.62	0.04
		5230	0.664	0.766	86.68	0.62	0.03
		5270	0.664	0.765	86.80	0.61	0.03
		5310	0.670	0.766	87.47	0.58	0.03
		5510	0.664	0.766	86.68	0.62	0.03

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		5550	0.670	0.765	87.58	0.58	0.04
		5670	0.665	0.765	86.93	0.61	0.07
		5755	0.664	0.765	86.80	0.61	0.03
		5795	0.669	0.765	87.45	0.58	0.07
802.11ac (VHT20)	SISO	5180	1.345	1.446	93.02	0.31	0.03
		5200	1.345	1.446	93.02	0.31	0.03
		5240	1.345	1.446	93.02	0.31	0.03
		5260	1.345	1.445	93.08	0.31	0.03
		5300	1.345	1.446	93.02	0.31	0.06
		5320	1.345	1.445	93.08	0.31	0.03
		5500	1.345	1.445	93.08	0.31	0.03
		5580	1.345	1.445	93.08	0.31	0.03
		5700	1.345	1.445	93.08	0.31	0.03
		5745	1.345	1.446	93.02	0.31	0.03
		5785	1.345	1.446	93.02	0.31	0.03
		5825	1.346	1.446	93.08	0.31	0.03
802.11ac (VHT40)	SISO	5190	0.670	0.770	87.01	0.60	0.03
		5230	0.668	0.770	86.75	0.62	0.03
		5270	0.668	0.770	86.75	0.62	0.03
		5310	0.674	0.770	87.53	0.58	0.07
		5510	0.674	0.769	87.65	0.57	0.03
		5550	0.667	0.769	86.74	0.62	0.03
		5670	0.673	0.769	87.52	0.58	0.07
		5755	0.671	0.770	87.14	0.60	0.03
		5795	0.669	0.769	87.00	0.61	0.03
802.11ac (VHT80)	SISO	5210	0.332	0.433	76.67	1.15	0.12
		5290	0.333	0.434	76.73	1.15	0.03
		5530	0.332	0.434	76.50	1.16	0.05
		5610	0.338	0.434	77.88	1.09	0.11
		5775	0.333	0.434	76.73	1.15	0.07

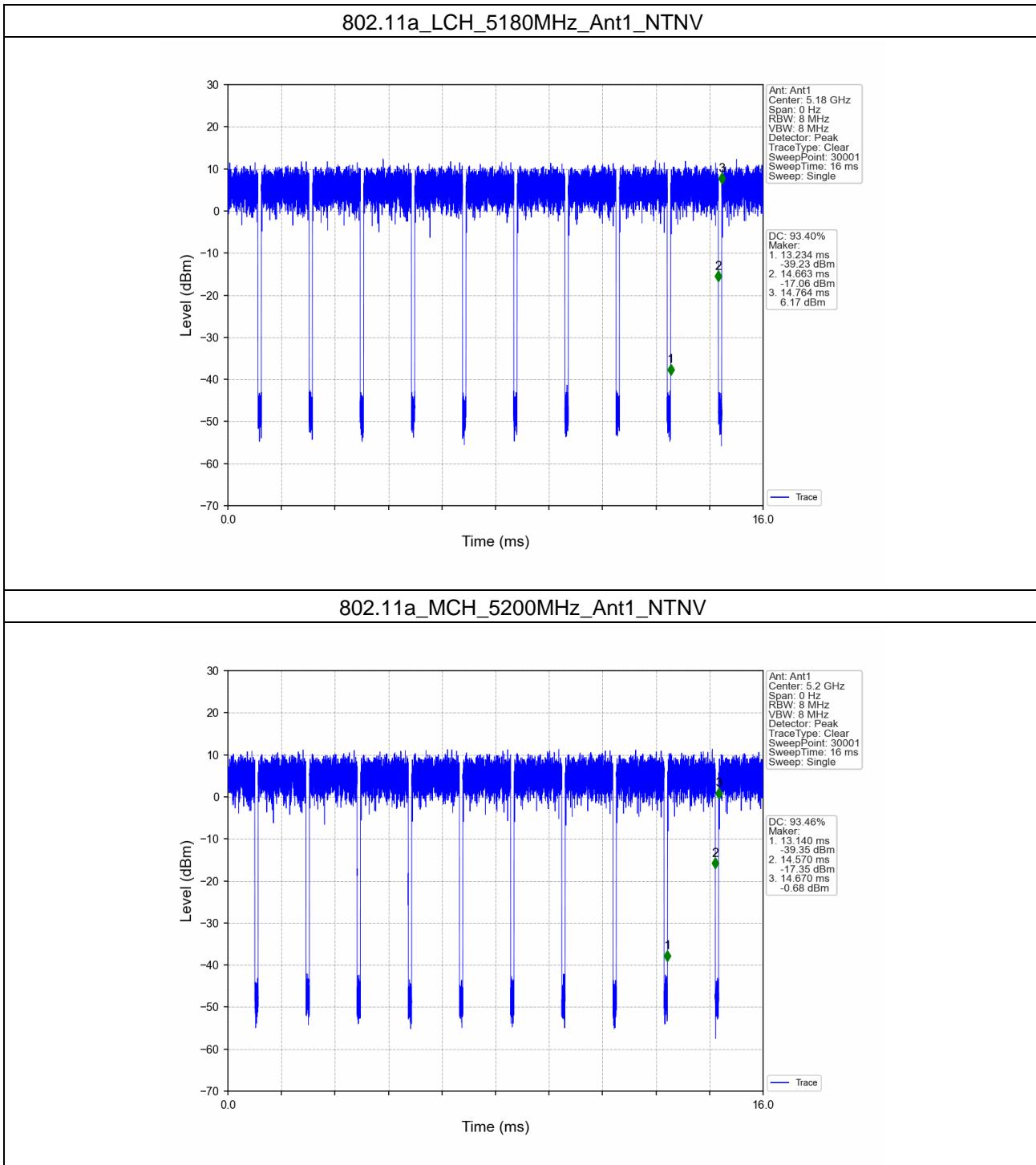
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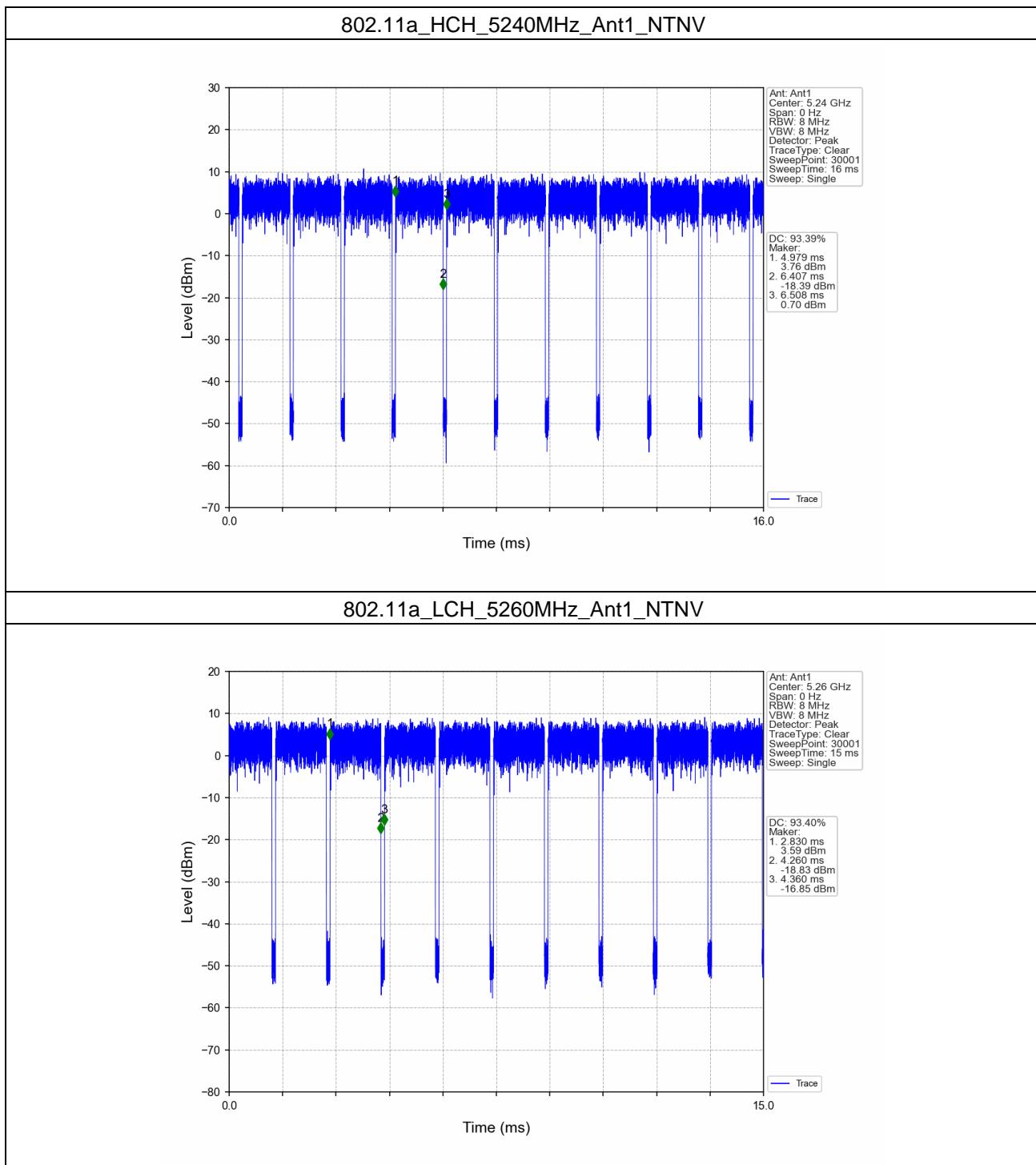
## 1.1.2 Test Graph



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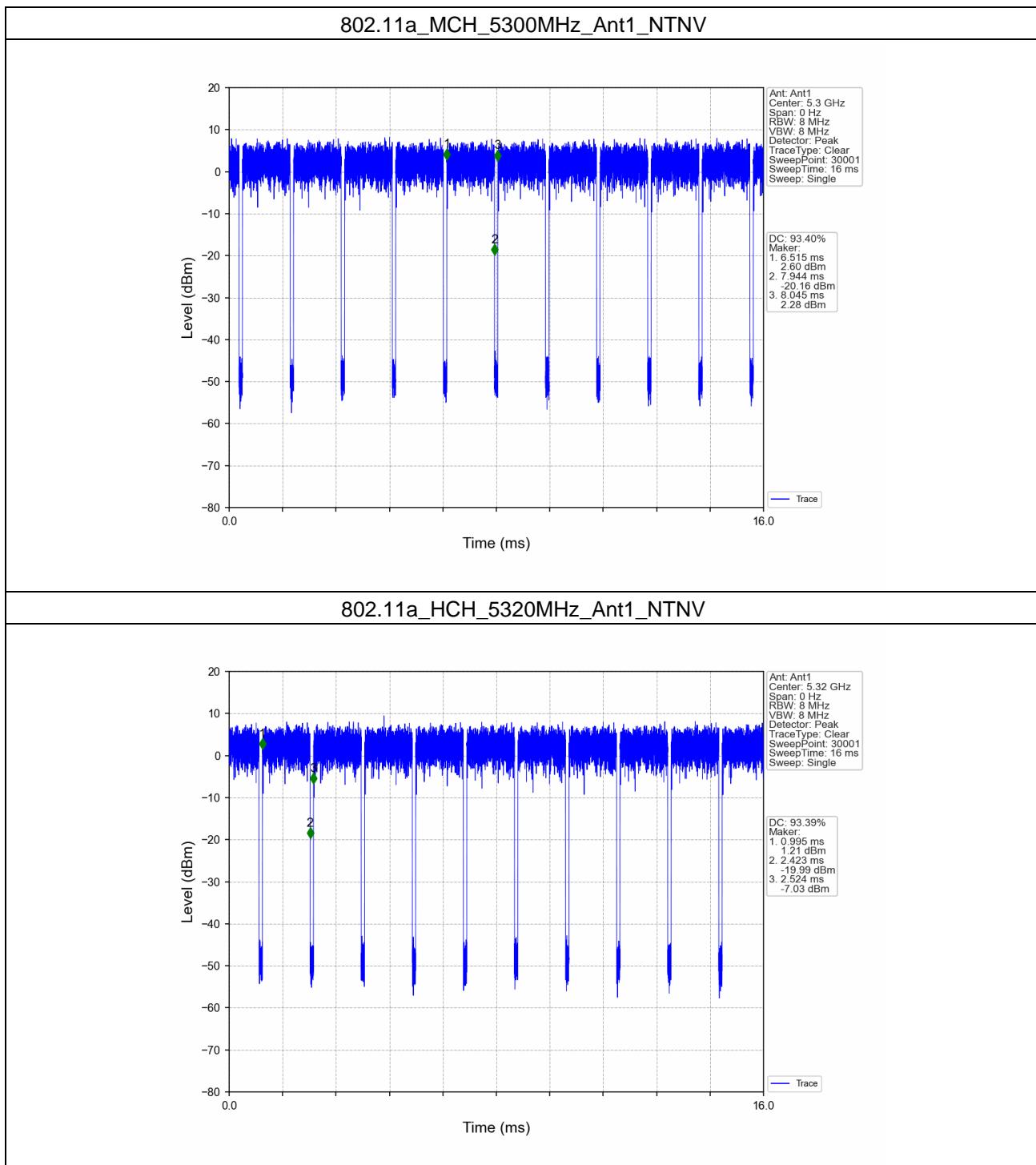




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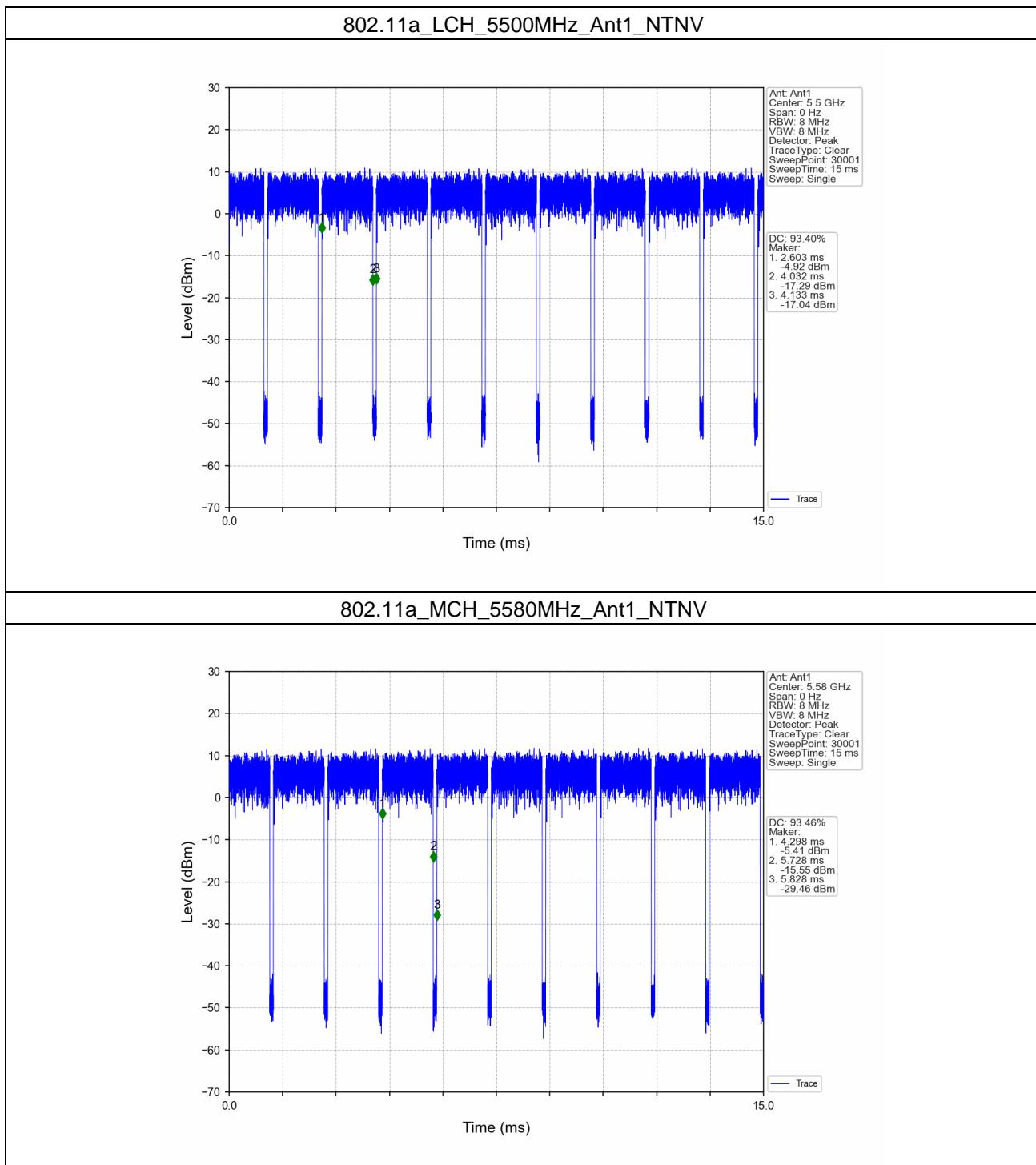




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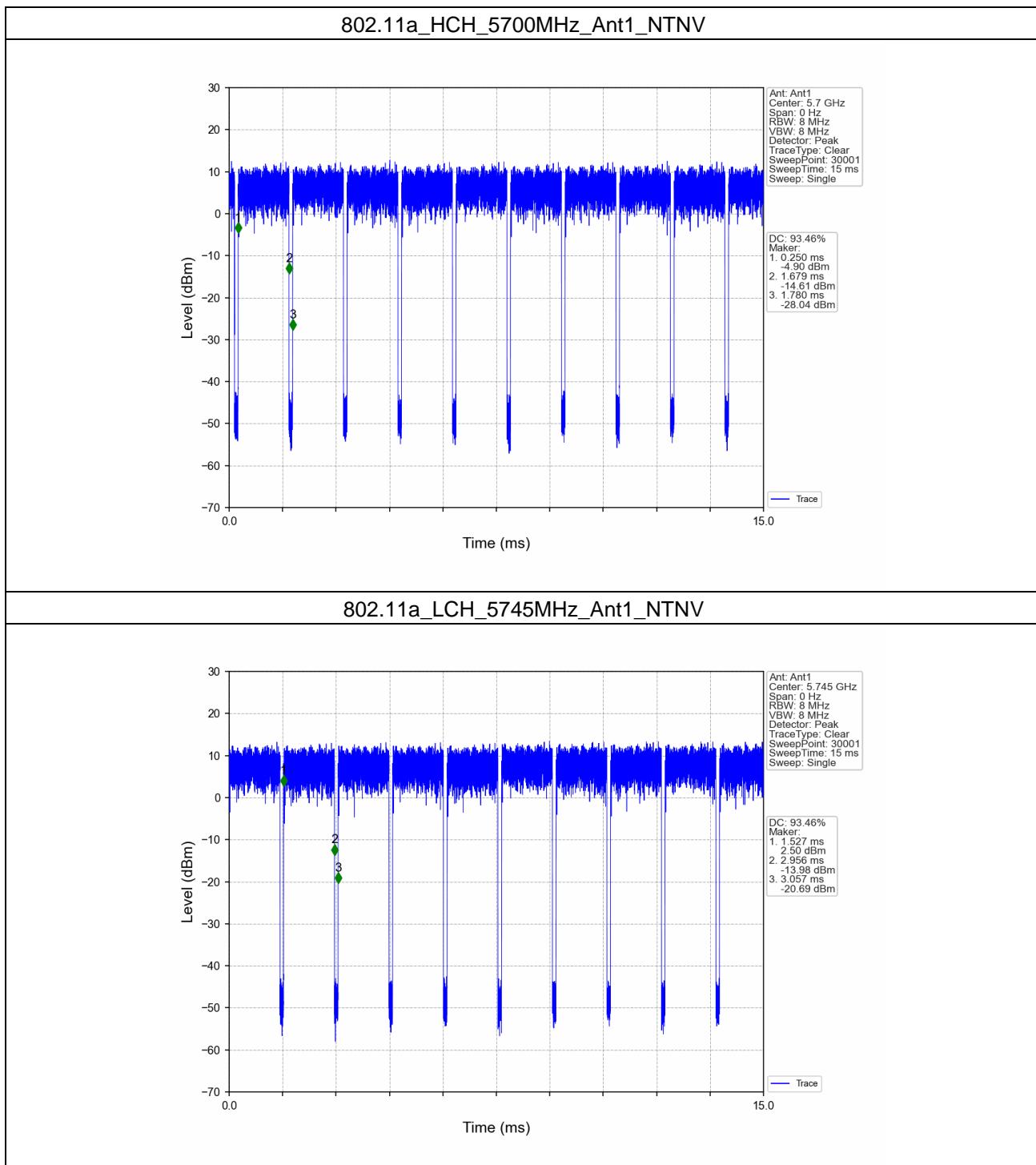
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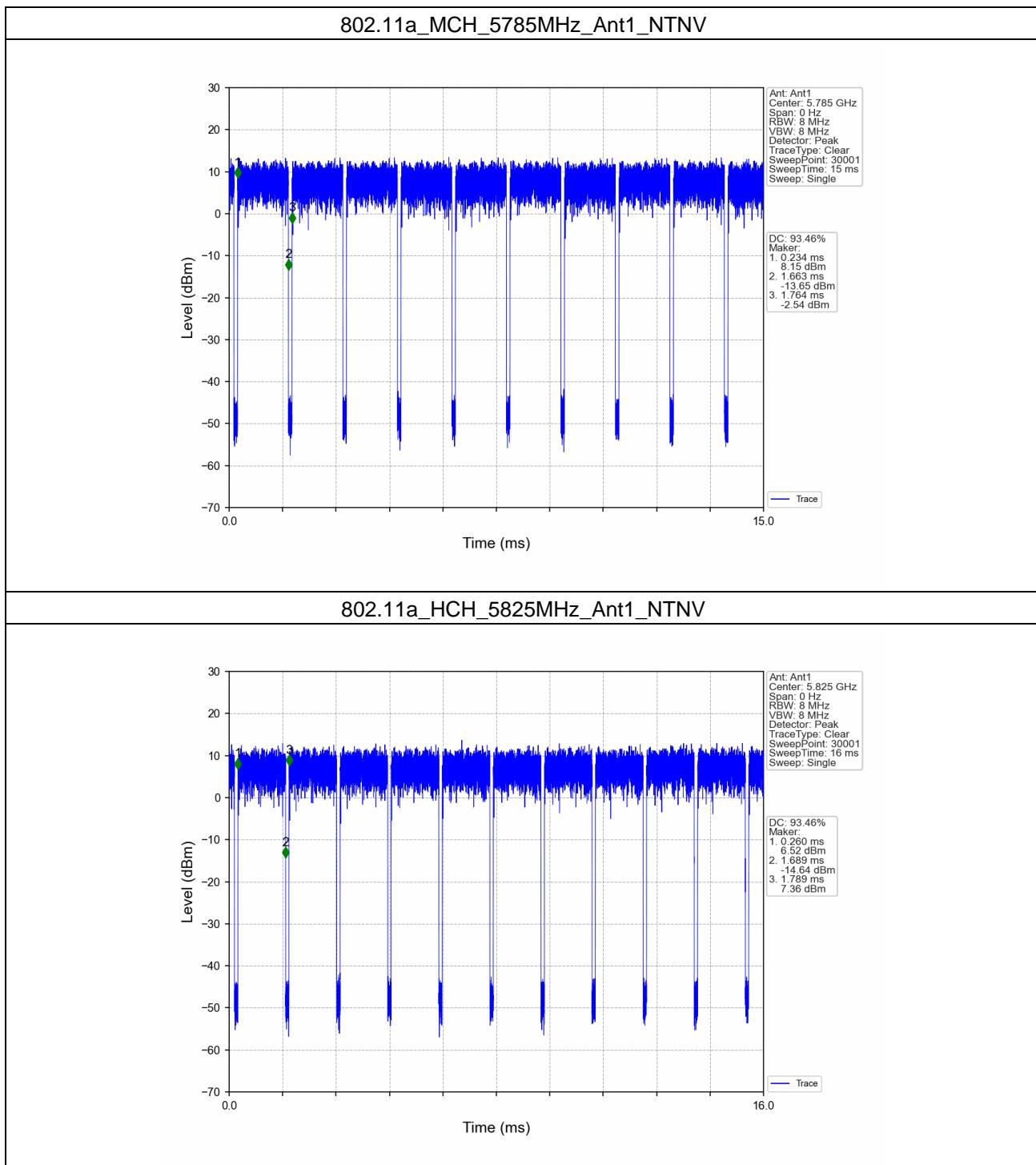


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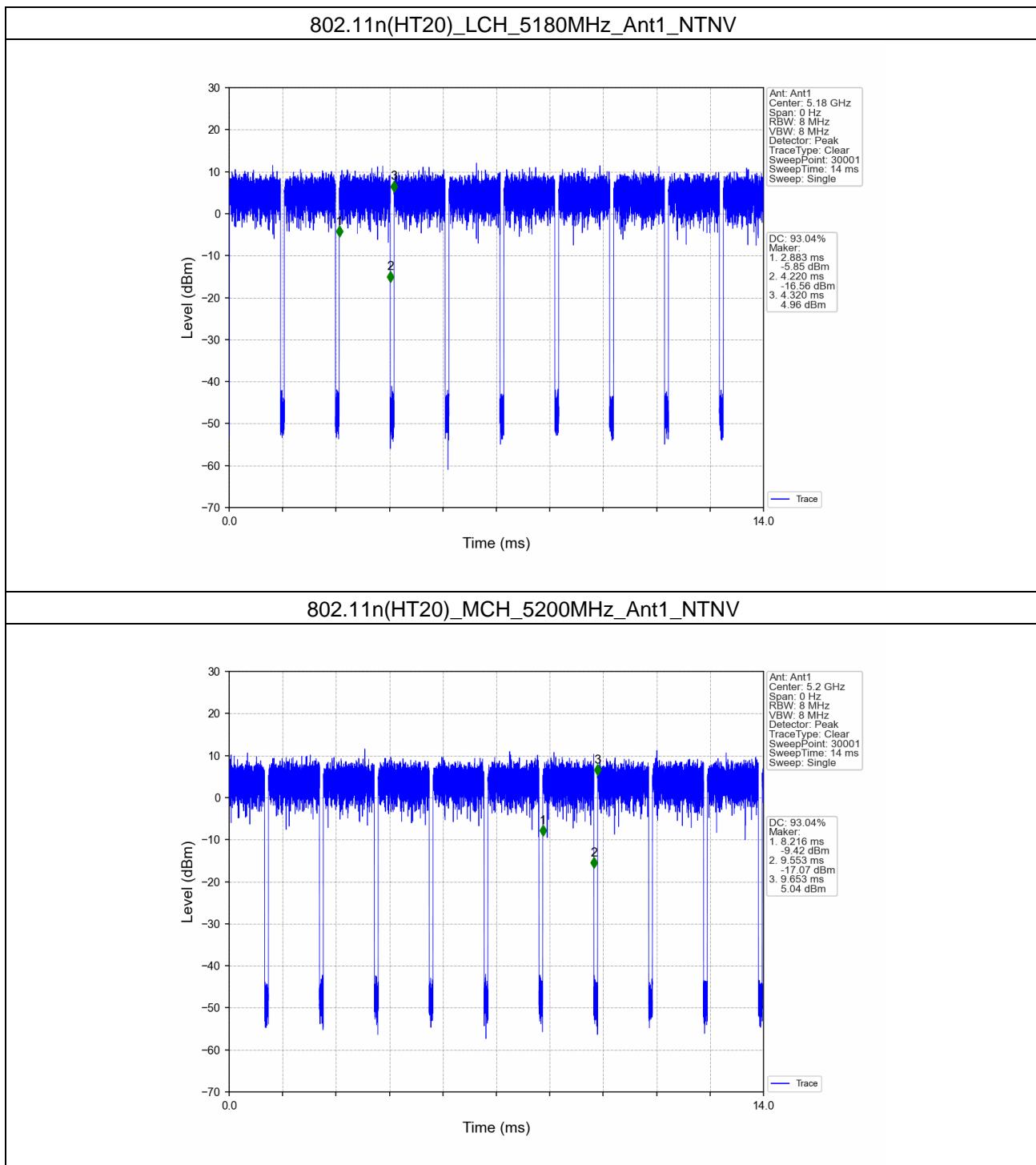
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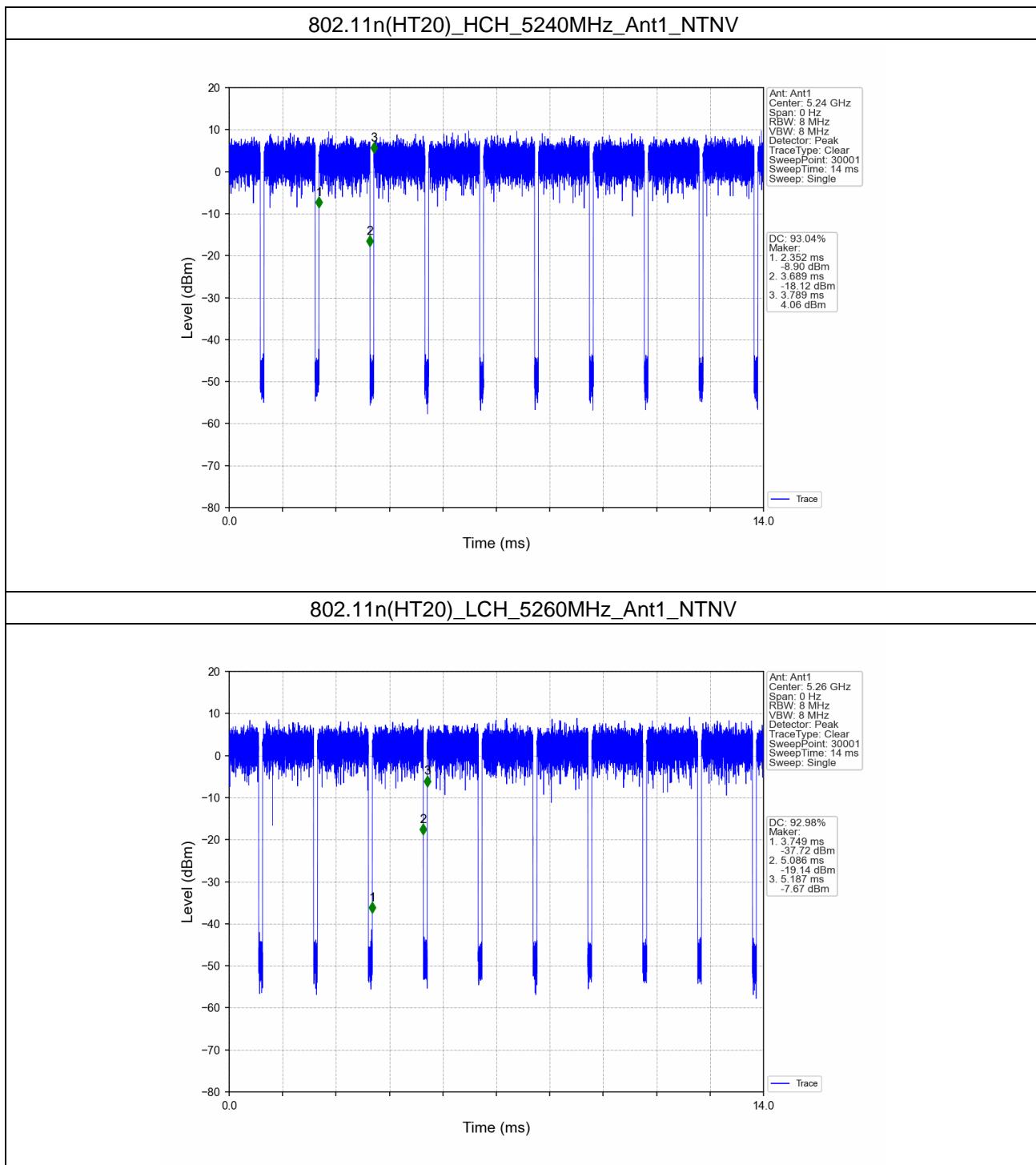


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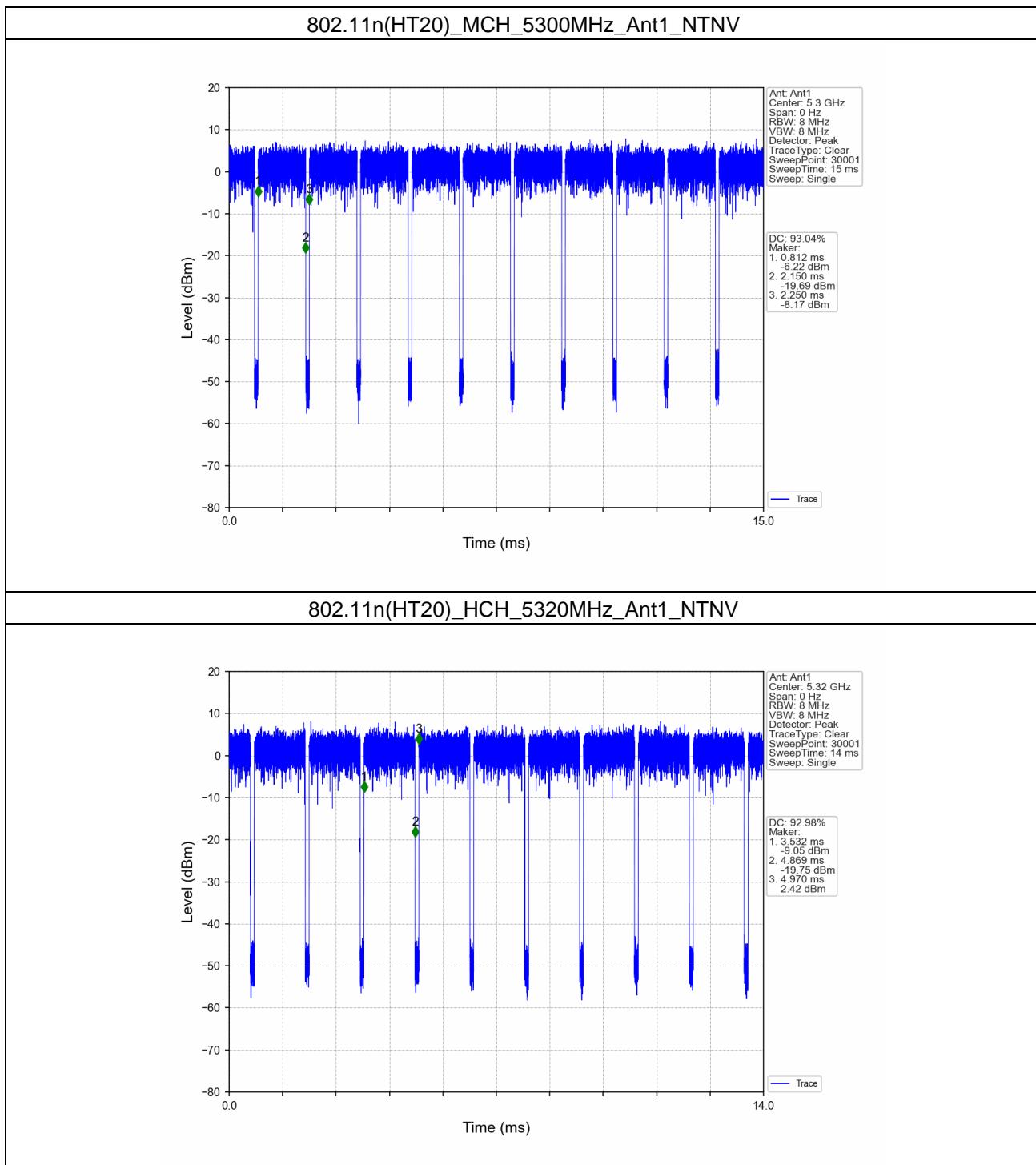
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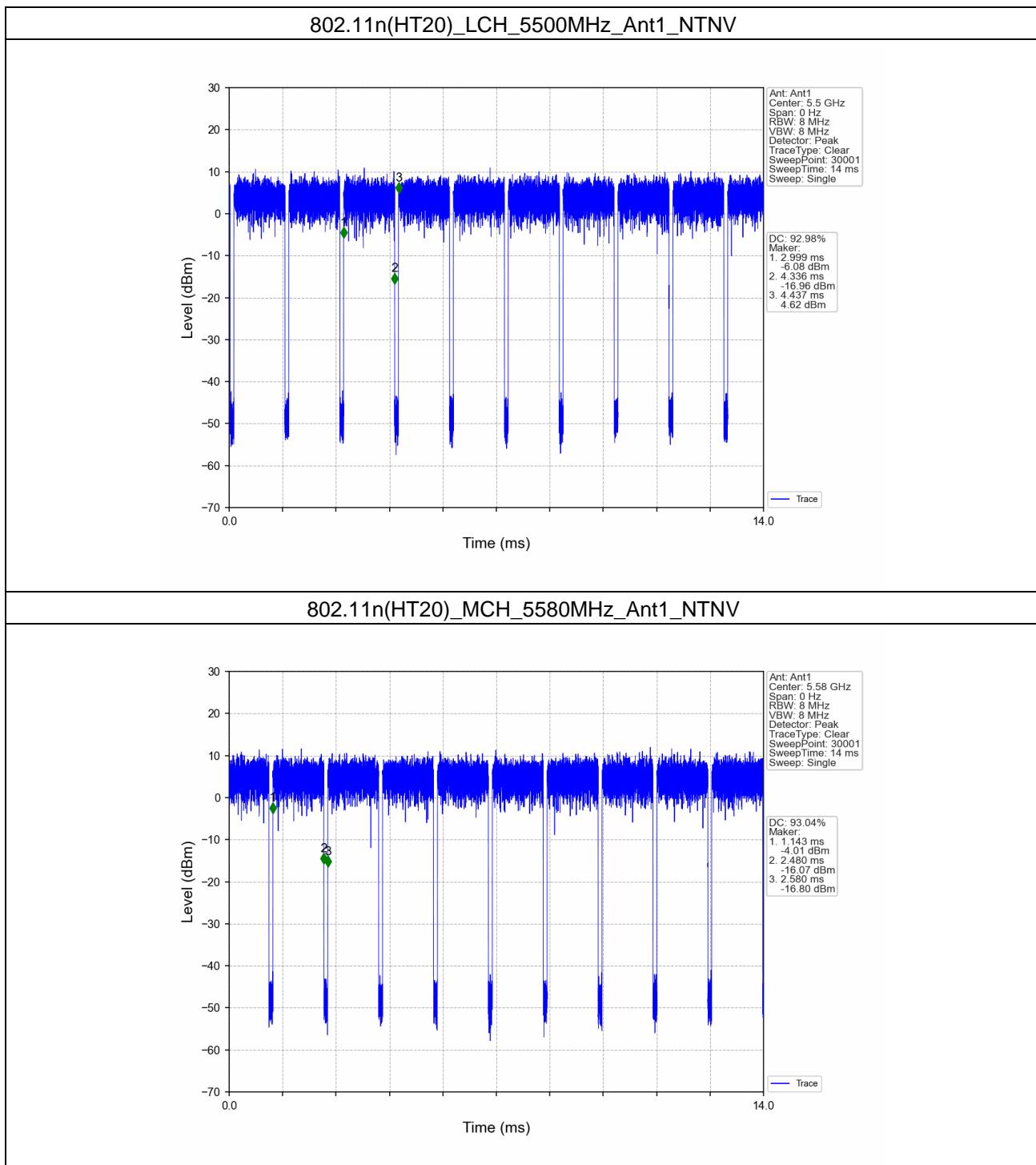


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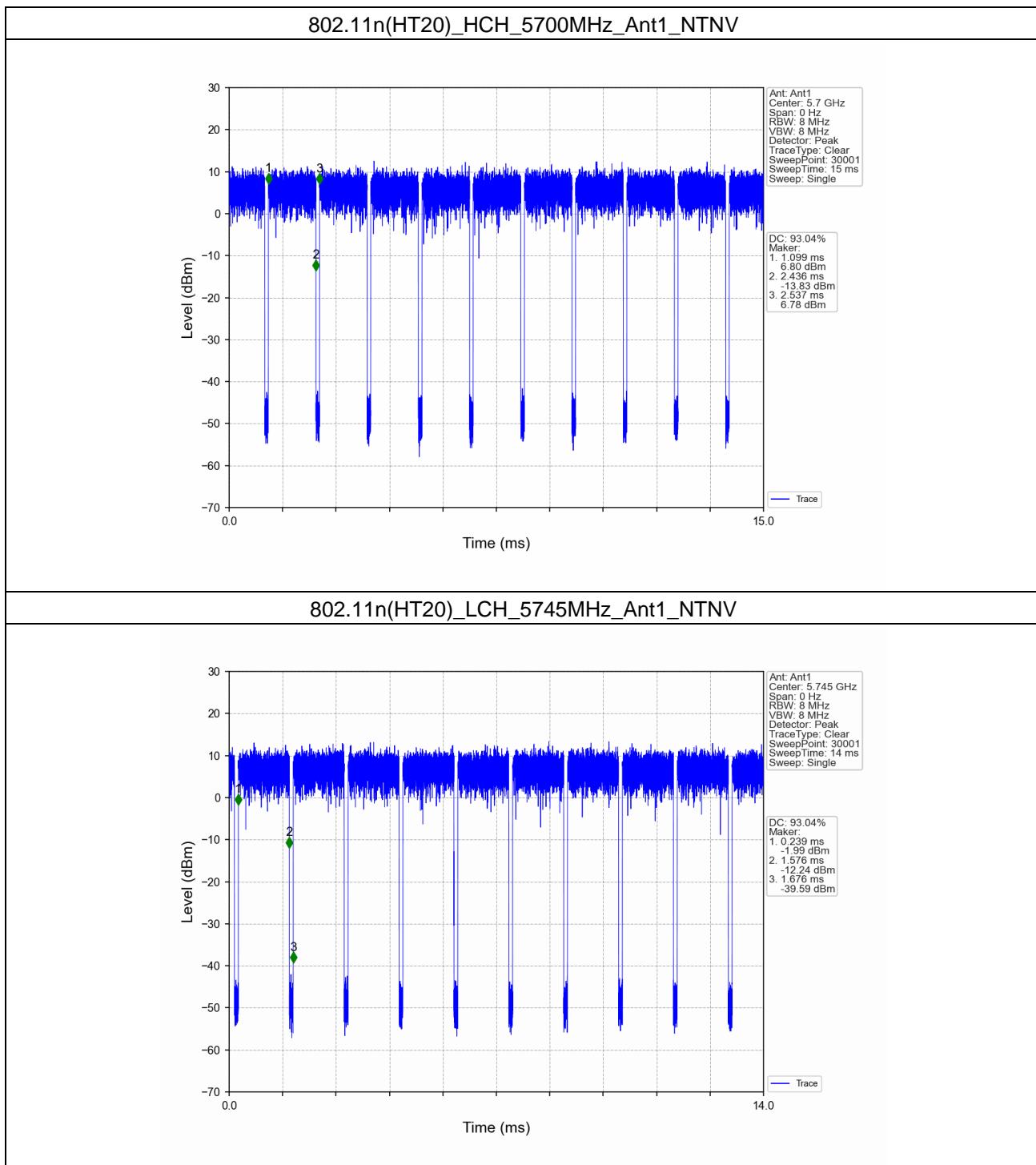


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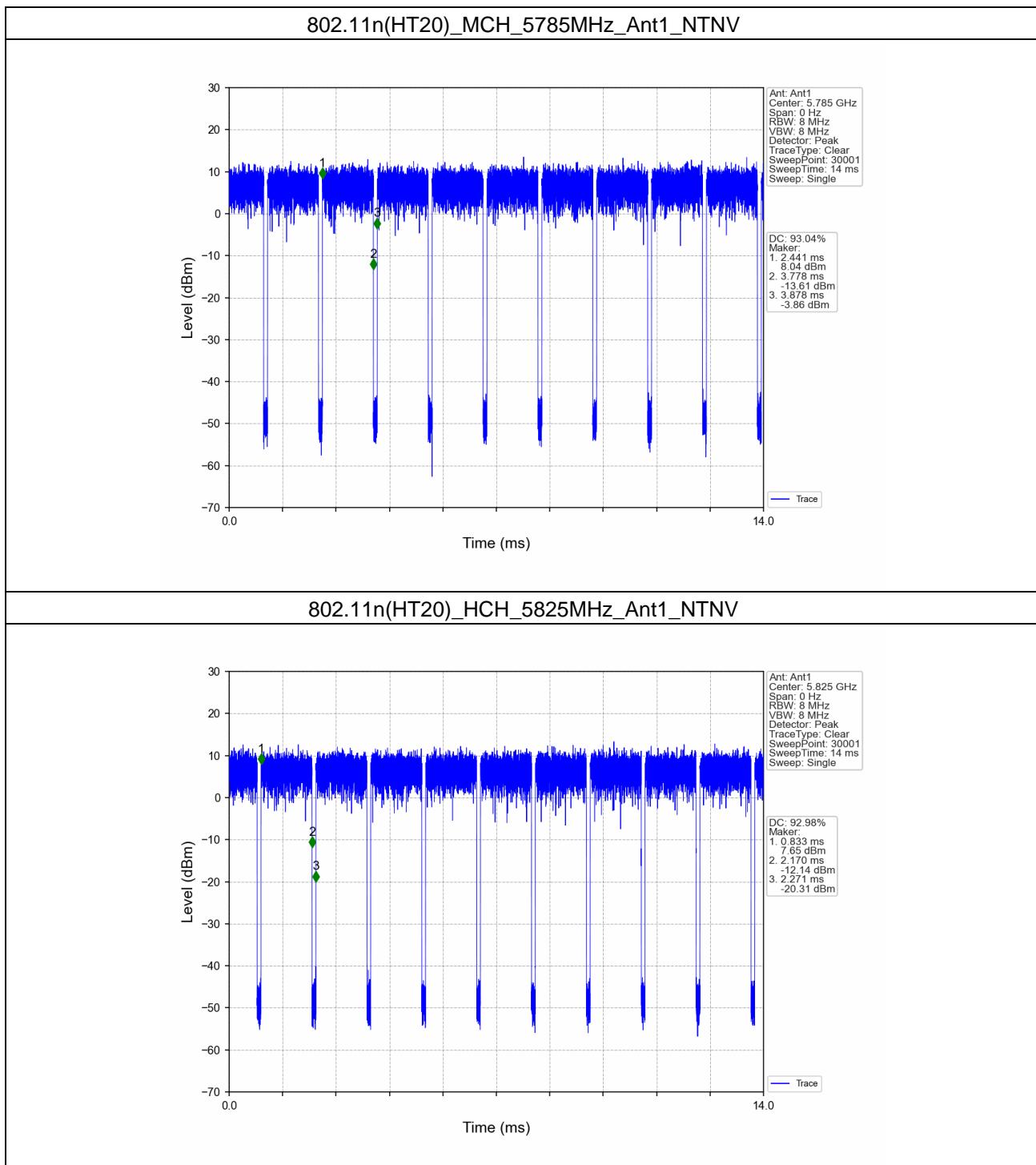
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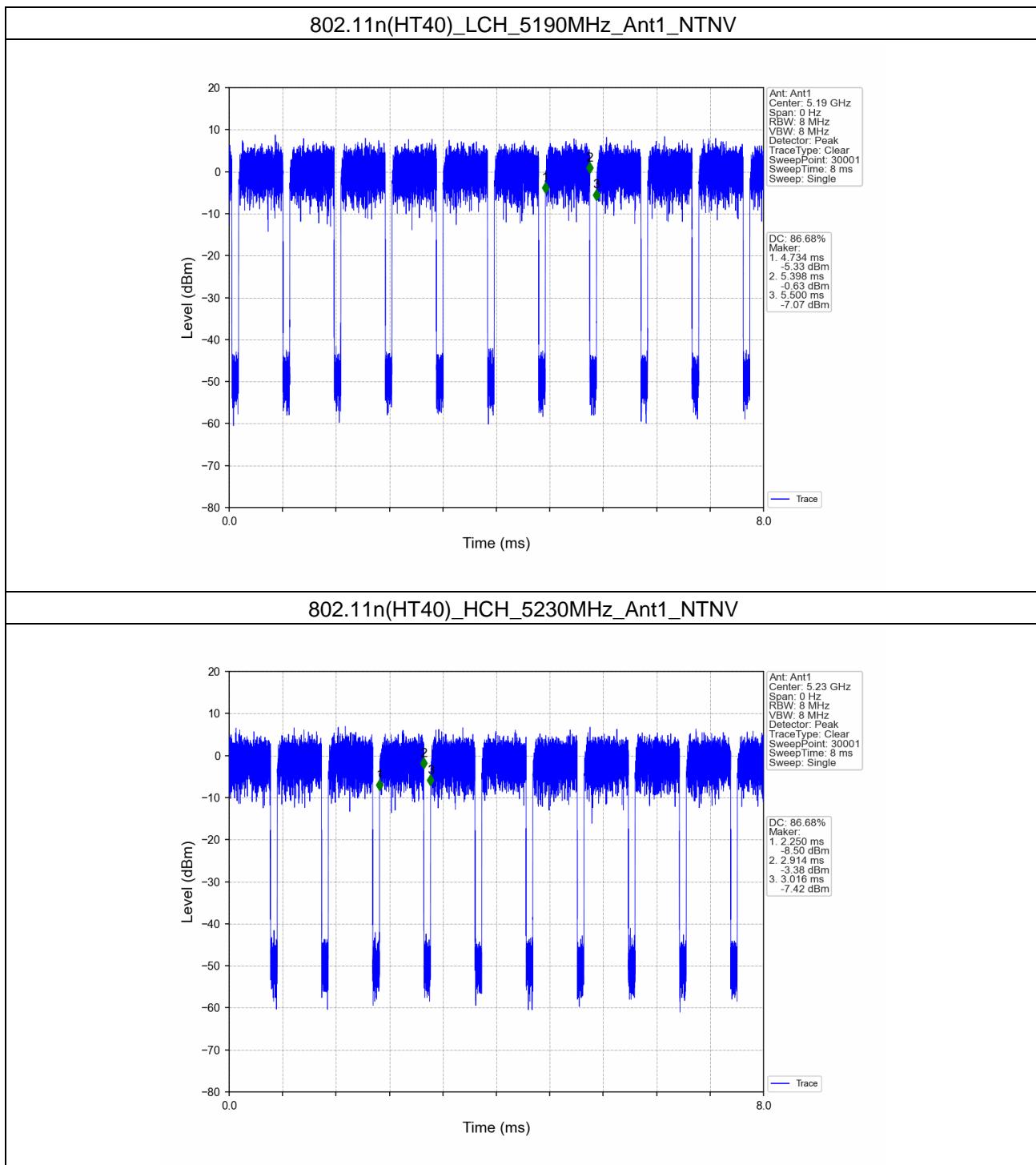


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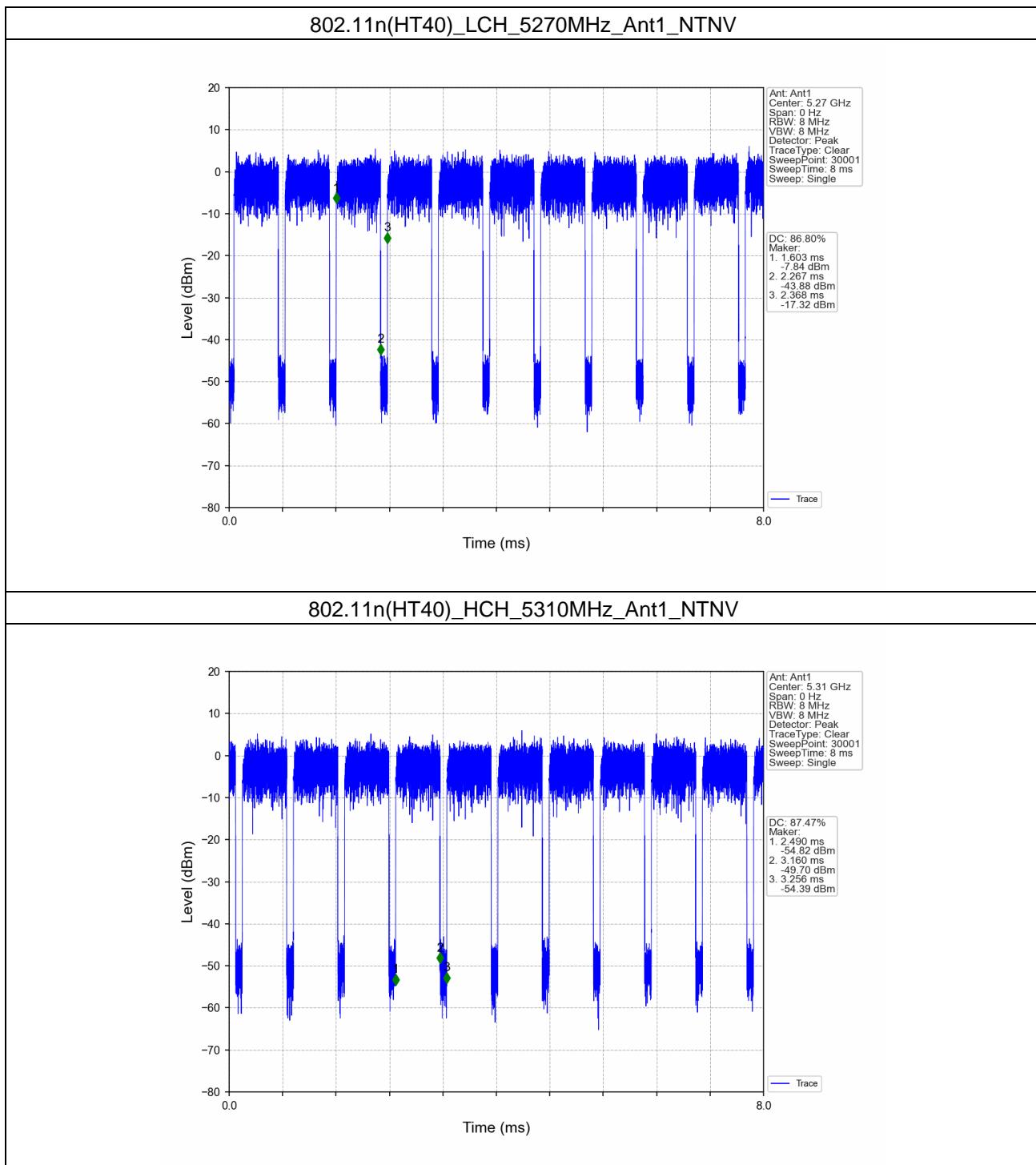
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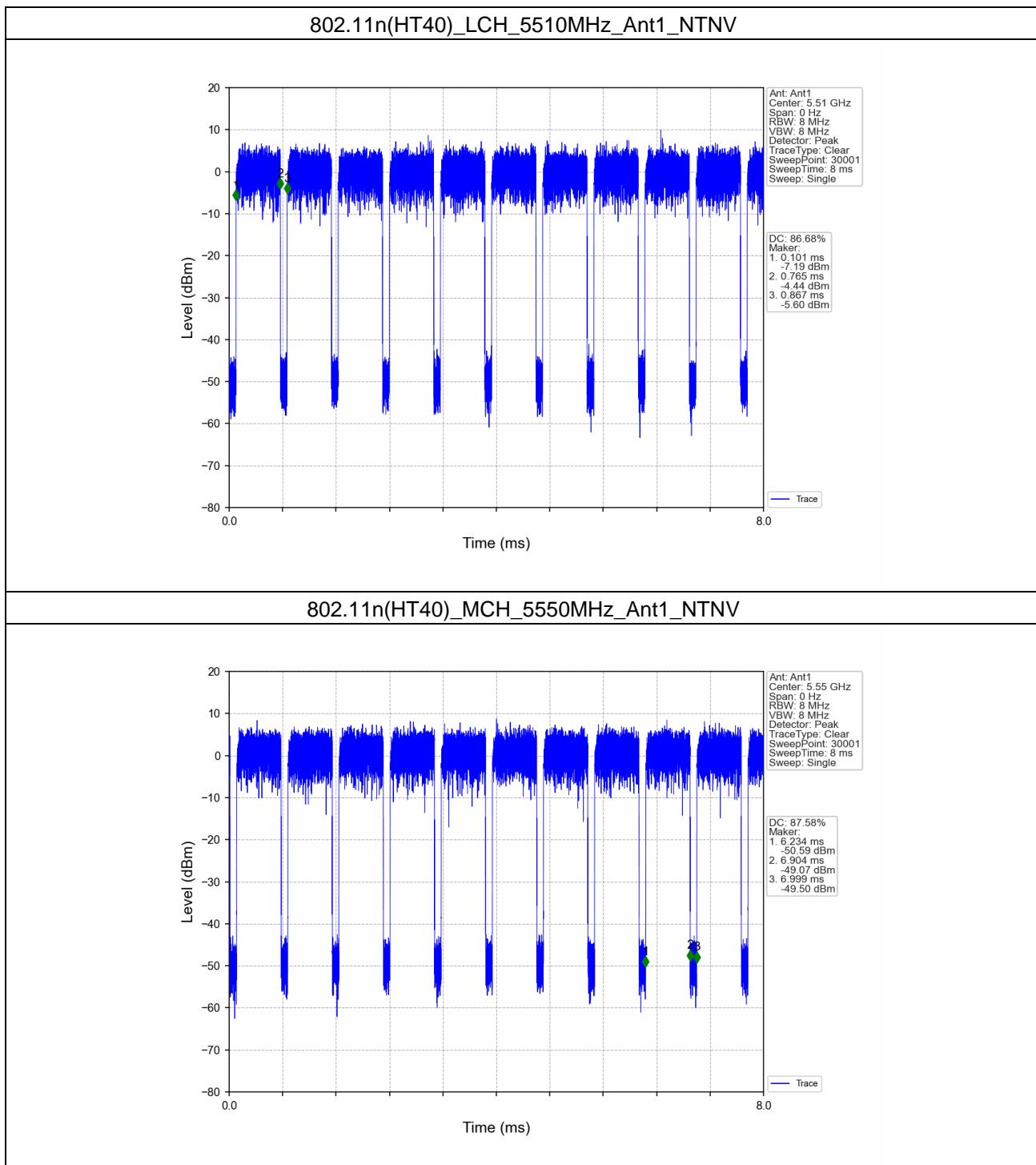




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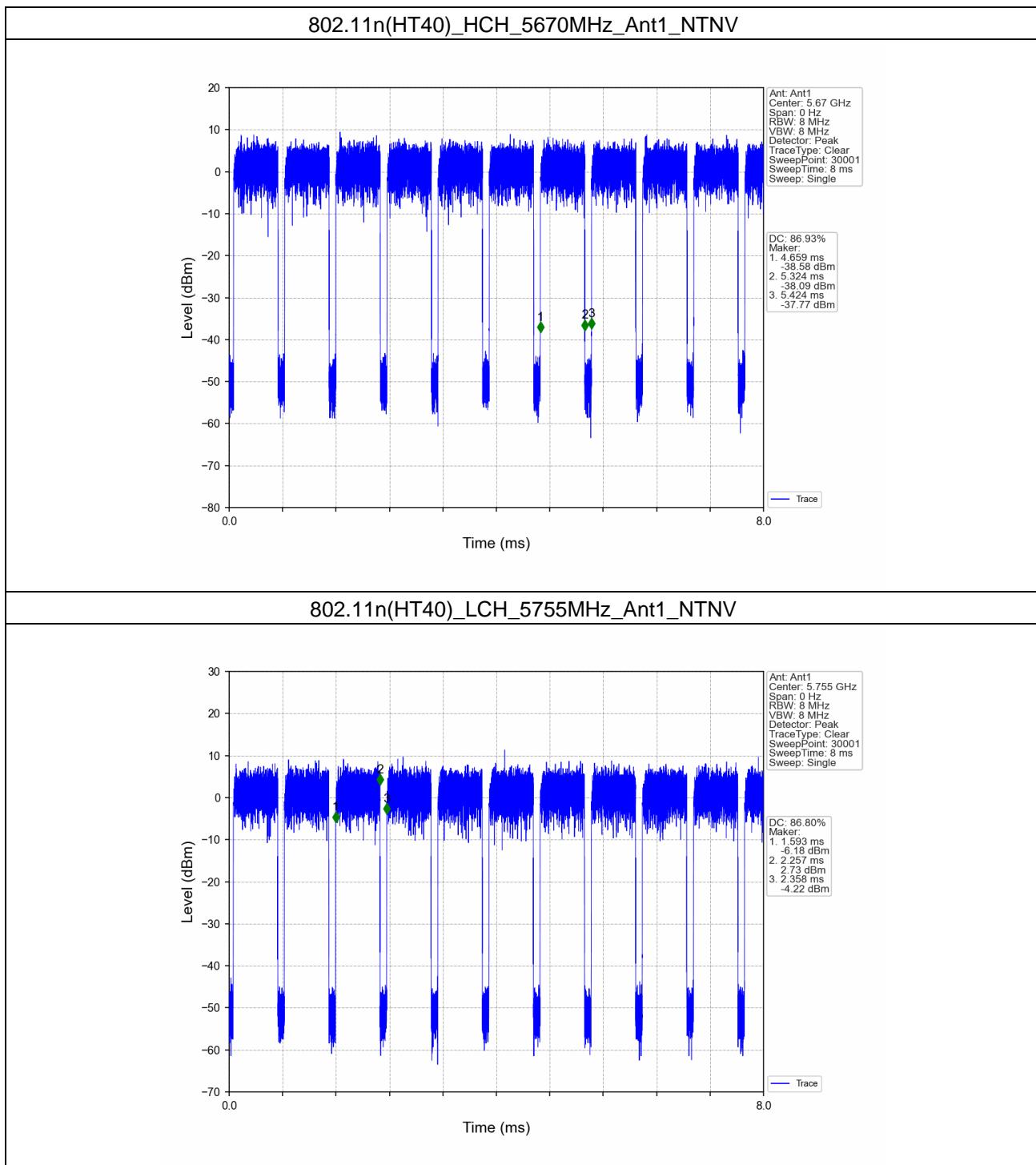




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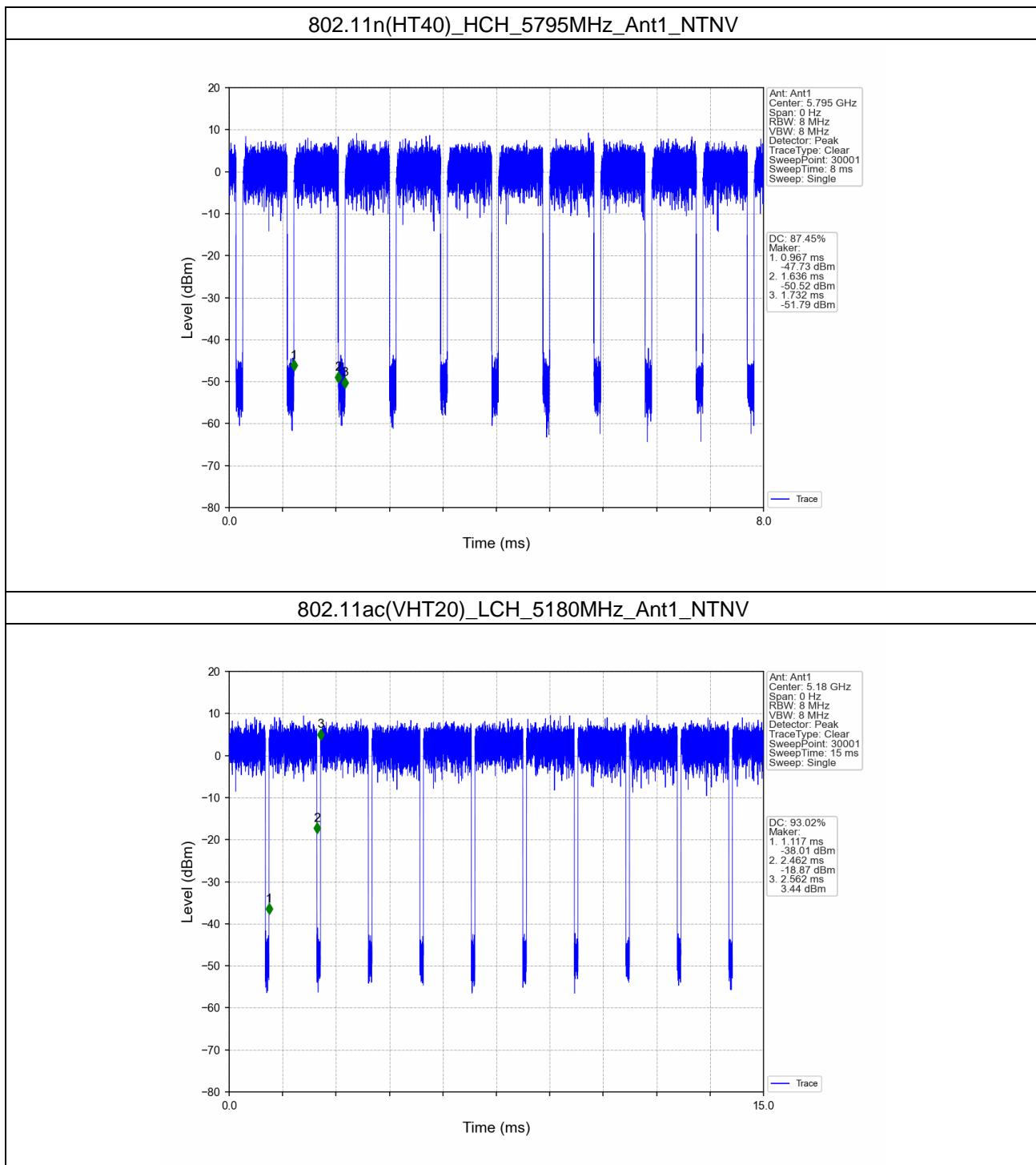




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