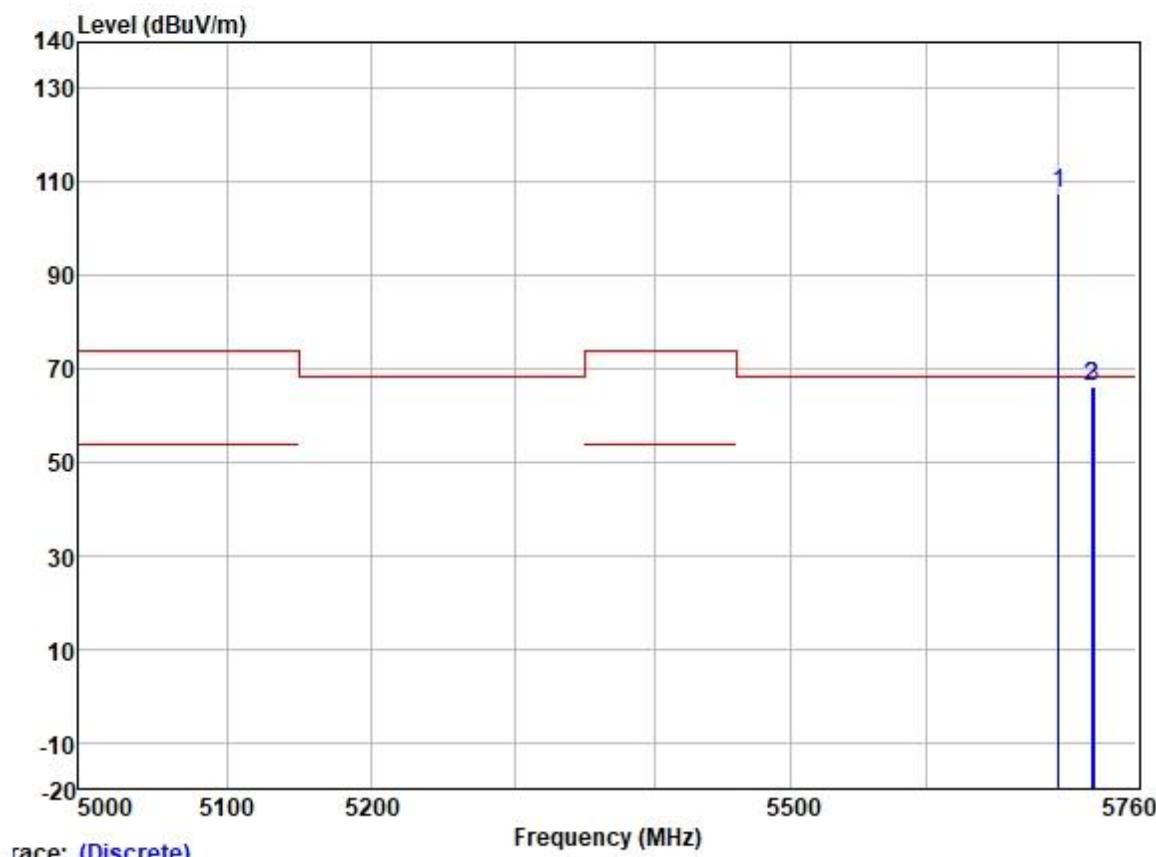


Test Mode: 22; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:140



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	Level	dBuV/m	dBuV/m	dB		
1 * 5700.000	105.98	32.01	6.40	36.89	107.50	68.20	39.30	VERTICAL	Peak	
2 5725.000	64.78	32.07	6.25	36.89	66.21	68.20	-1.99	VERTICAL	Peak	
3 5726.783	64.89	32.07	6.25	36.89	66.32	68.20	-1.88	VERTICAL	Peak	

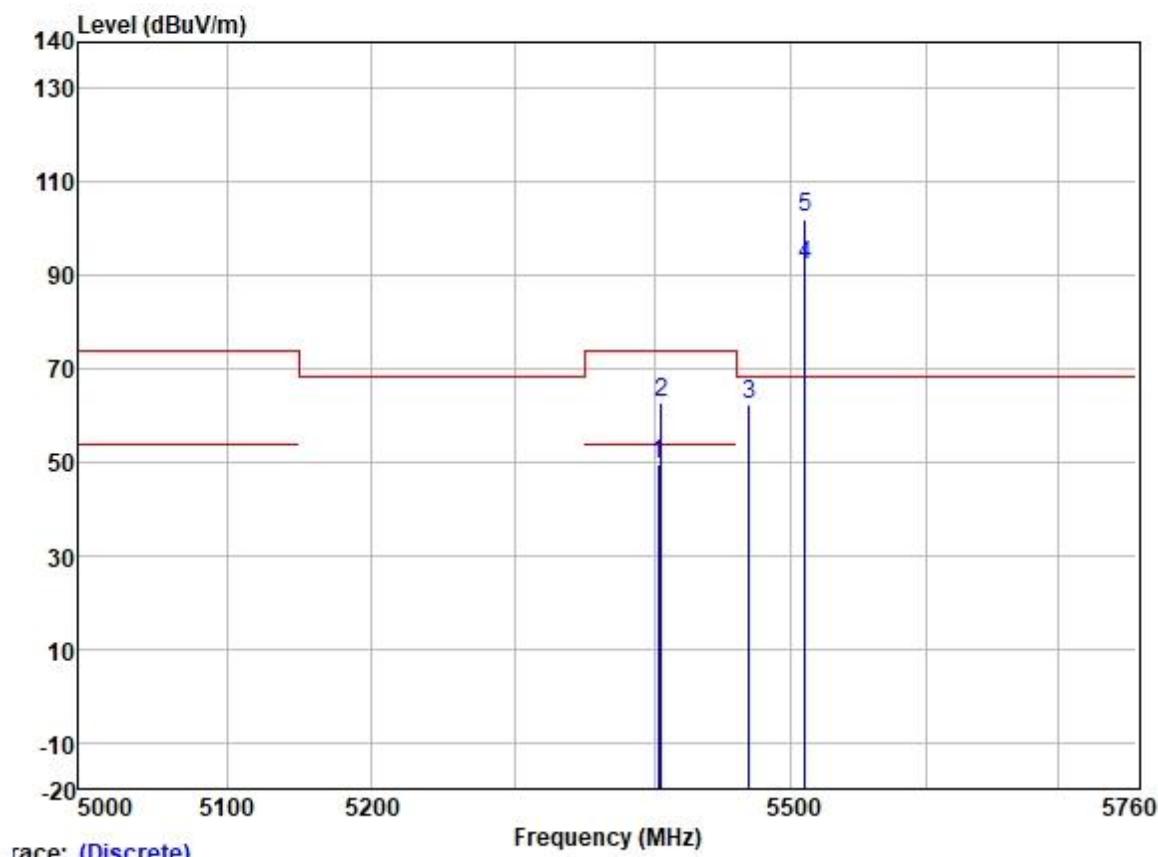
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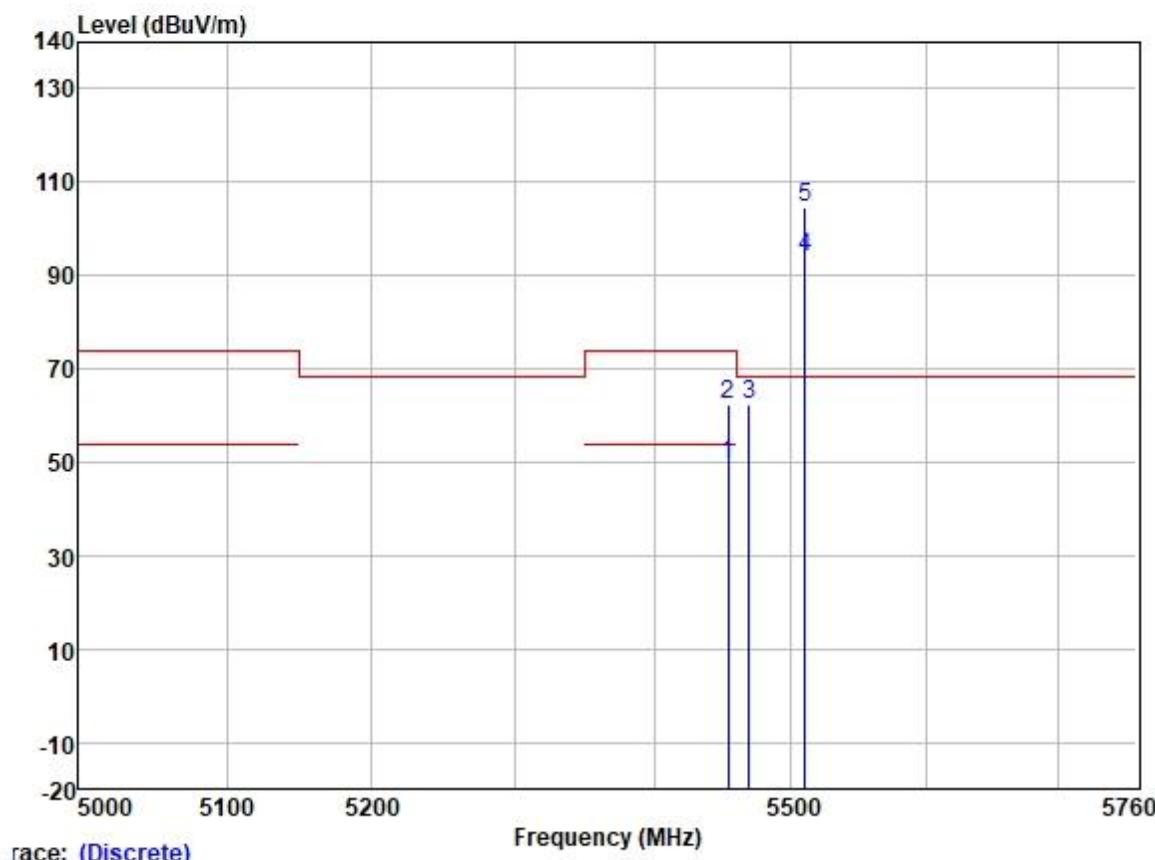
Test Mode: 22; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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Test Mode: 22; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB		
1 5453.616	48.55	31.79	6.26	36.88	49.72	54.00	-4.28	VERTICAL	Average	
2 5453.616	61.32	31.79	6.26	36.88	62.49	74.00	-11.51	VERTICAL	Peak	
3 5468.712	61.17	31.80	6.31	36.88	62.40	68.20	-5.80	VERTICAL	Peak	
4 5510.000	92.39	31.80	6.40	36.88	93.71	-----	-----	VERTICAL	Average	
5 * 5510.000	103.24	31.80	6.40	36.88	104.56	68.20	36.36	VERTICAL	Peak	

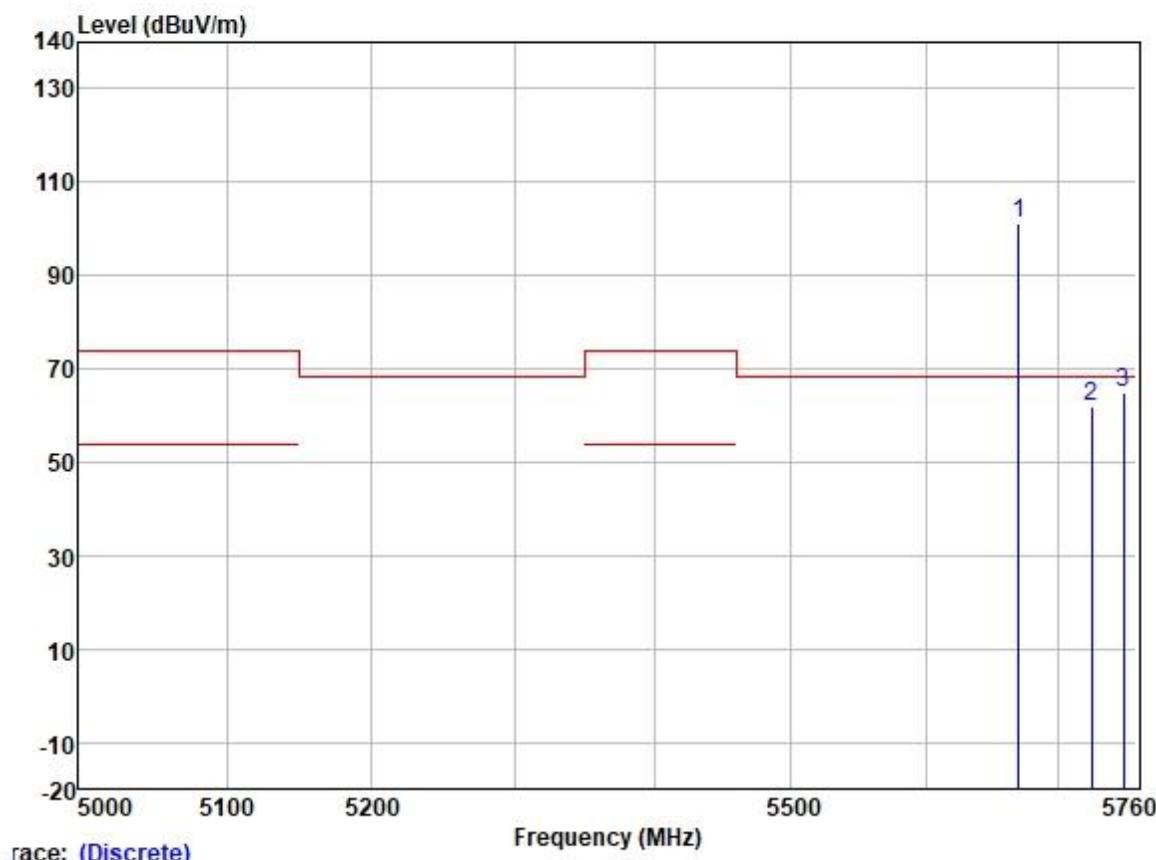
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Test Mode: 22; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:134



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1 * 5670.000	99.68	31.97	6.37	36.89	101.13	68.20	32.93	HORIZONTAL	Peak		
2 5725.000	60.54	32.07	6.25	36.89	61.97	68.20	-6.23	HORIZONTAL	Peak		
3 5750.033	63.58	32.10	6.20	36.89	64.99	68.20	-3.21	HORIZONTAL	Peak		

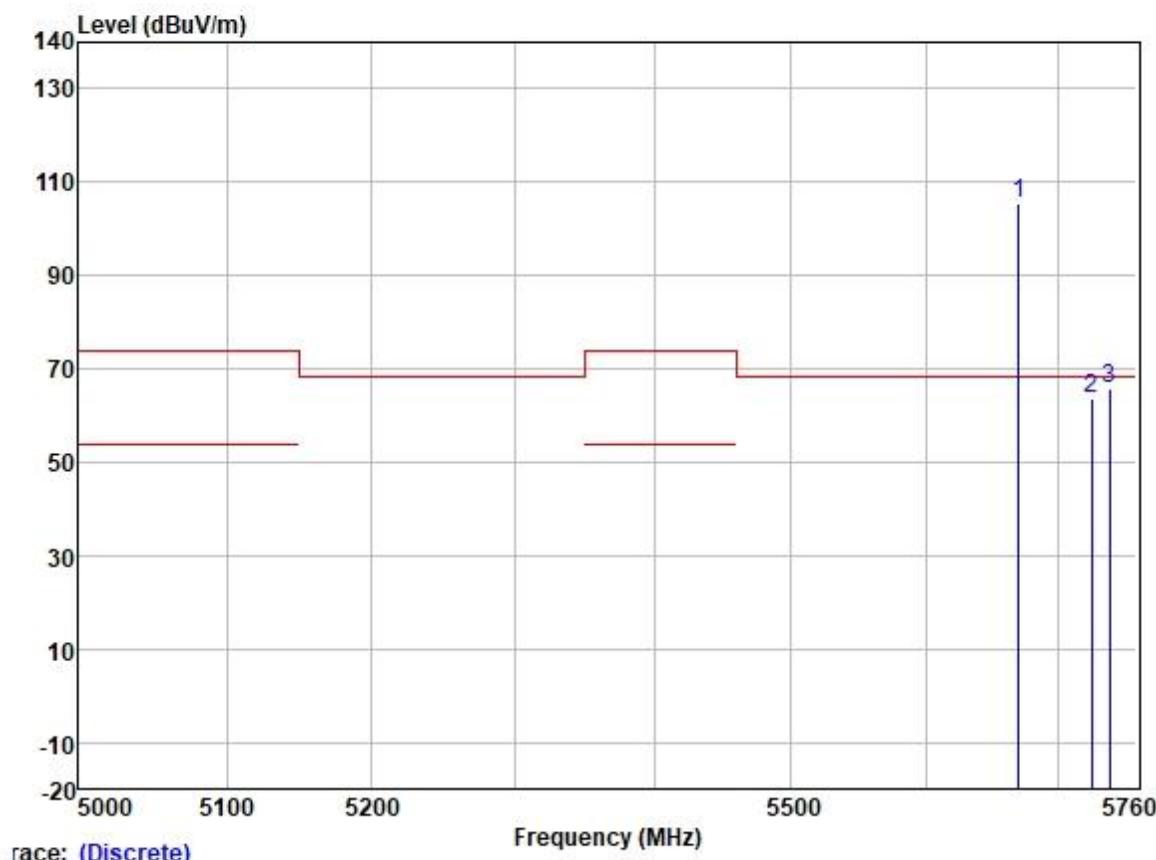
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Test Mode: 22; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:134



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	Level	dBuV/m	dBuV/m	dB		
1 * 5670.000	104.00	31.97	6.37	36.89	105.45	68.20	37.25	VERTICAL	Peak	
2 5725.000	62.12	32.07	6.25	36.89	63.55	68.20	-4.65	VERTICAL	Peak	
3 5739.187	64.46	32.10	6.20	36.89	65.87	68.20	-2.33	VERTICAL	Peak	

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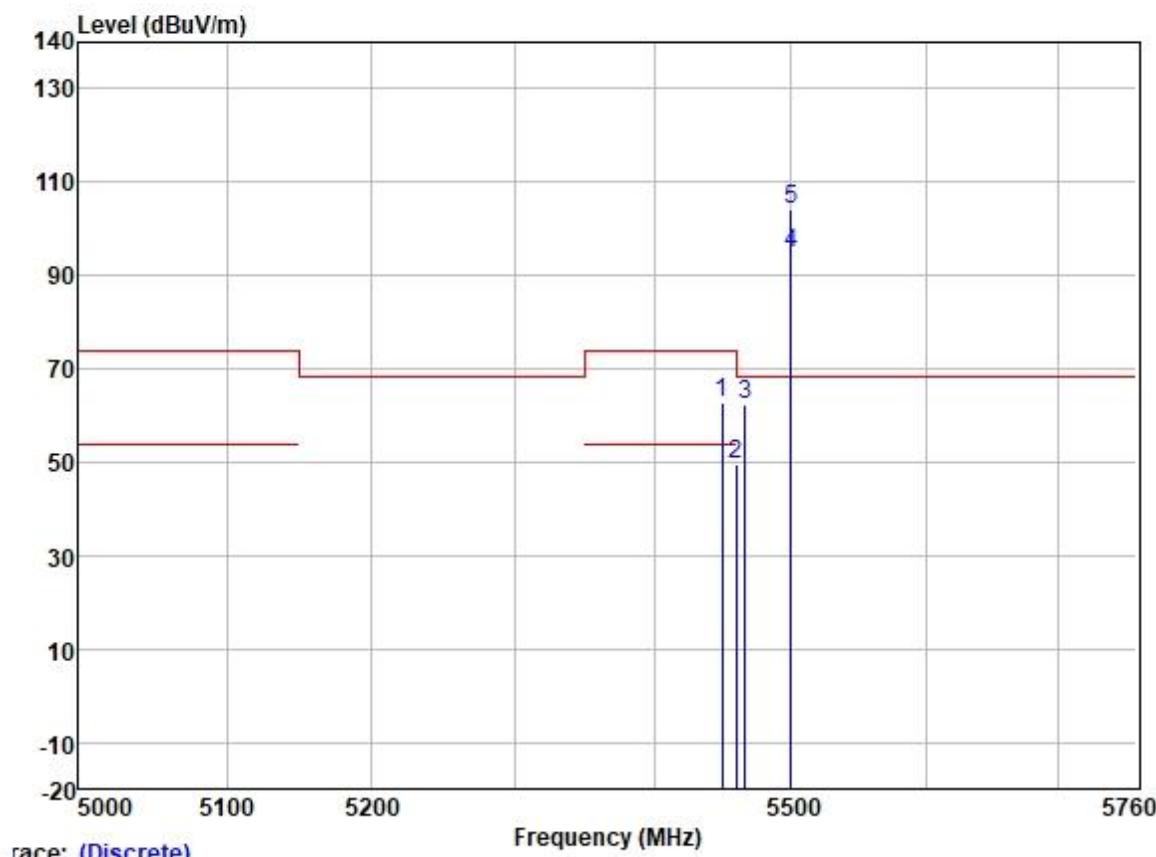
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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB
1 5449.241	61.72	31.79	6.26	36.88	62.89	74.00	-11.11	HORIZONTAL	Peak			
2 5459.190	48.55	31.79	6.26	36.88	49.72	54.00	-4.28	HORIZONTAL	Average			
3 5465.793	60.97	31.80	6.31	36.88	62.20	68.20	-6.00	HORIZONTAL	Peak			
4 5500.000	93.46	31.80	6.40	36.88	94.78	-----	-----	HORIZONTAL	Average			
5 * 5500.000	102.89	31.80	6.40	36.88	104.21	68.20	36.01	HORIZONTAL	Peak			

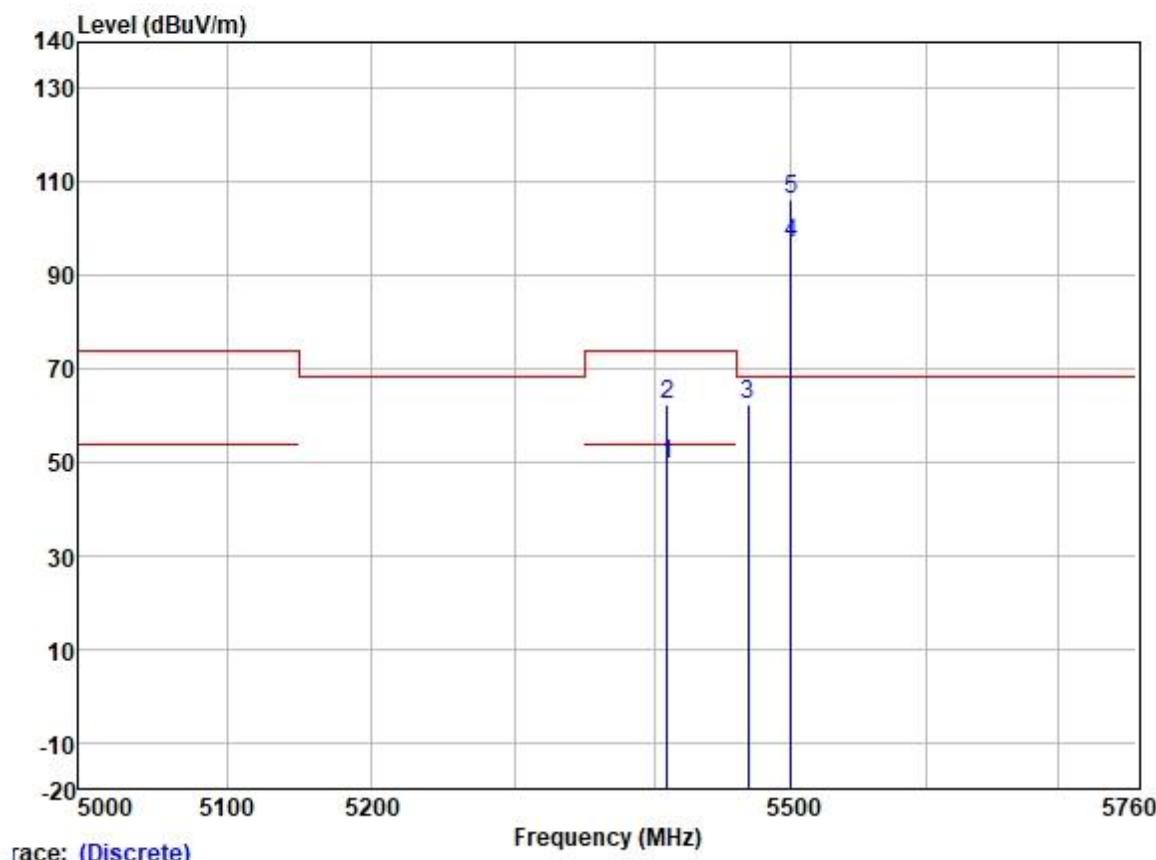
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



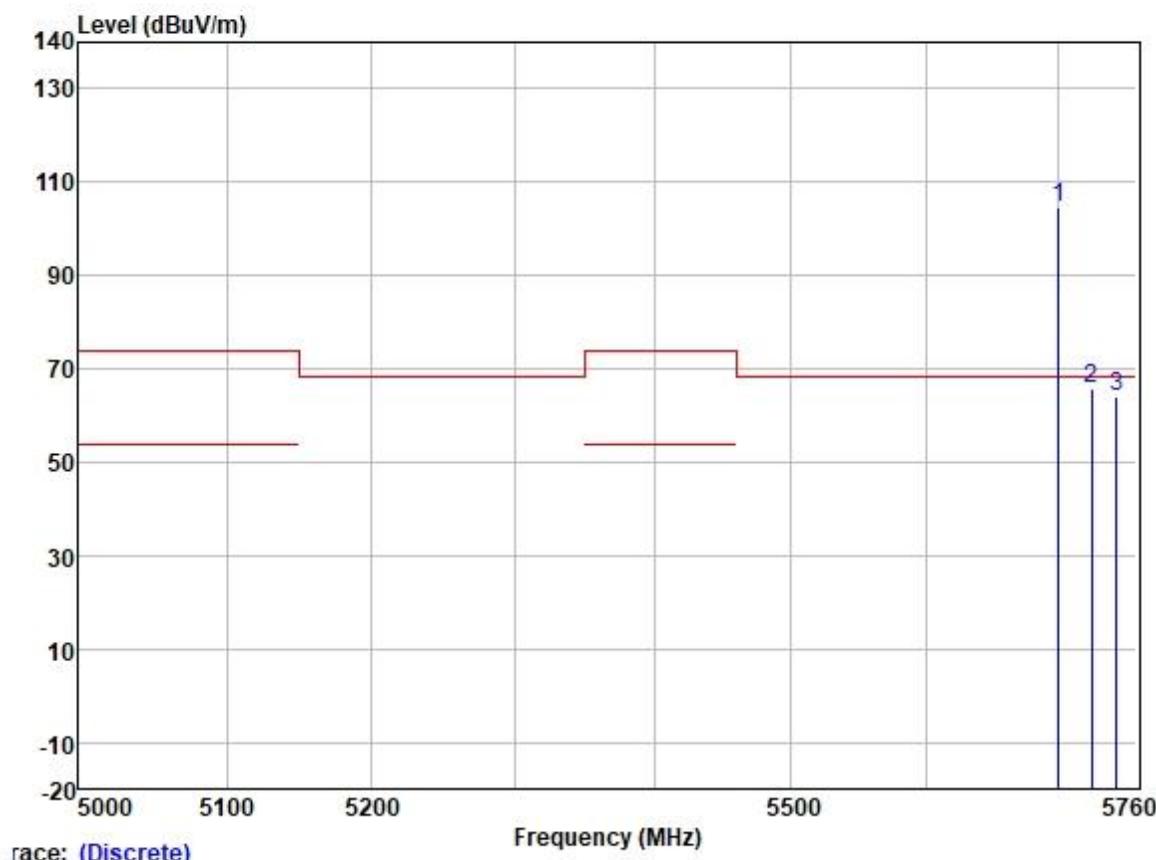
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV	dBuV/m	dB			
1	5409.384	48.77	31.79	6.06	36.88	49.74	54.00	-4.26	VERTICAL			Average
2	5409.384	61.34	31.79	6.06	36.88	62.31	74.00	-11.69	VERTICAL			Peak
3	5468.437	61.05	31.80	6.31	36.88	62.28	68.20	-5.92	VERTICAL			Peak
4	5500.000	95.58	31.80	6.40	36.88	96.90	-----	-----	VERTICAL			Average
5 *	5500.000	105.17	31.80	6.40	36.88	106.49	68.20	38.29	VERTICAL			Peak

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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:140



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 * 5700.000	103.25	32.01	6.40	36.89	104.77	68.20	36.57	HORIZONTAL	Peak		
2 5725.000	64.12	32.07	6.25	36.89	65.55	68.20	-2.65	HORIZONTAL	Peak		
3 5744.300	62.59	32.10	6.20	36.89	64.00	68.20	-4.20	HORIZONTAL	Peak		

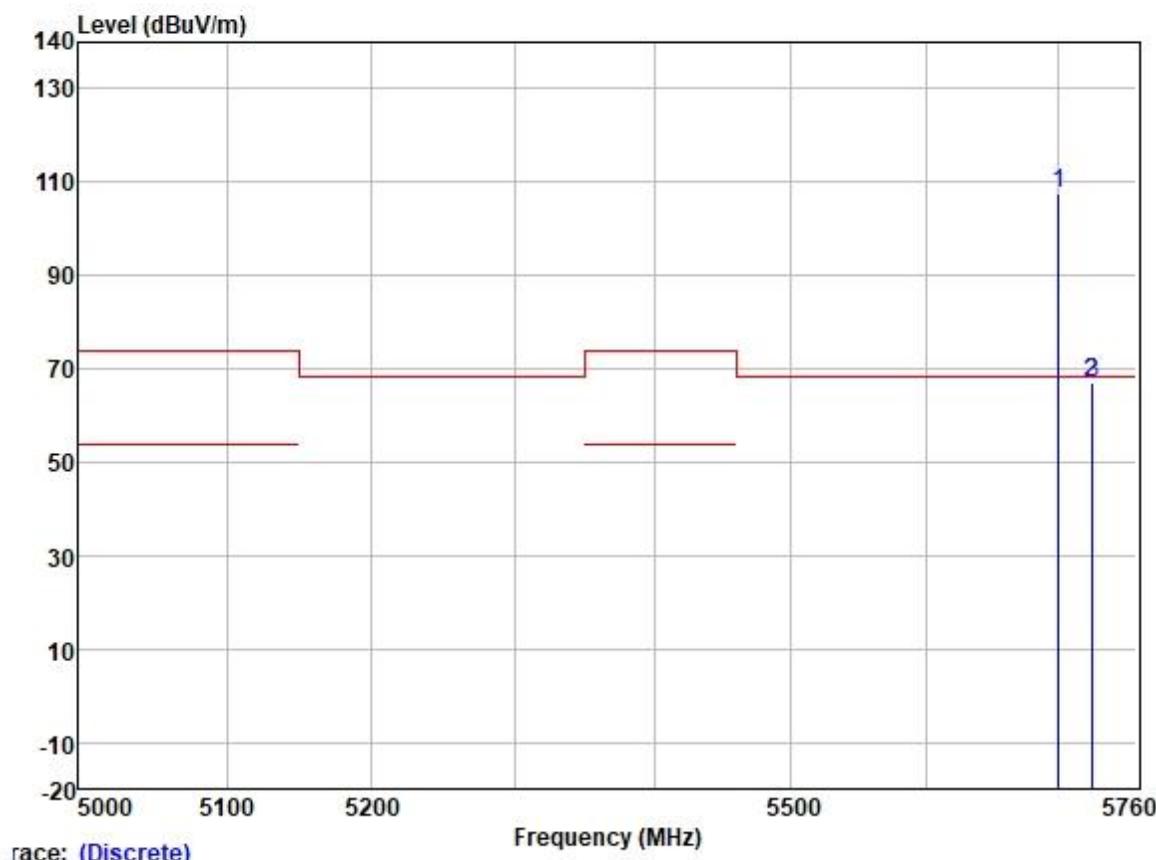
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:140



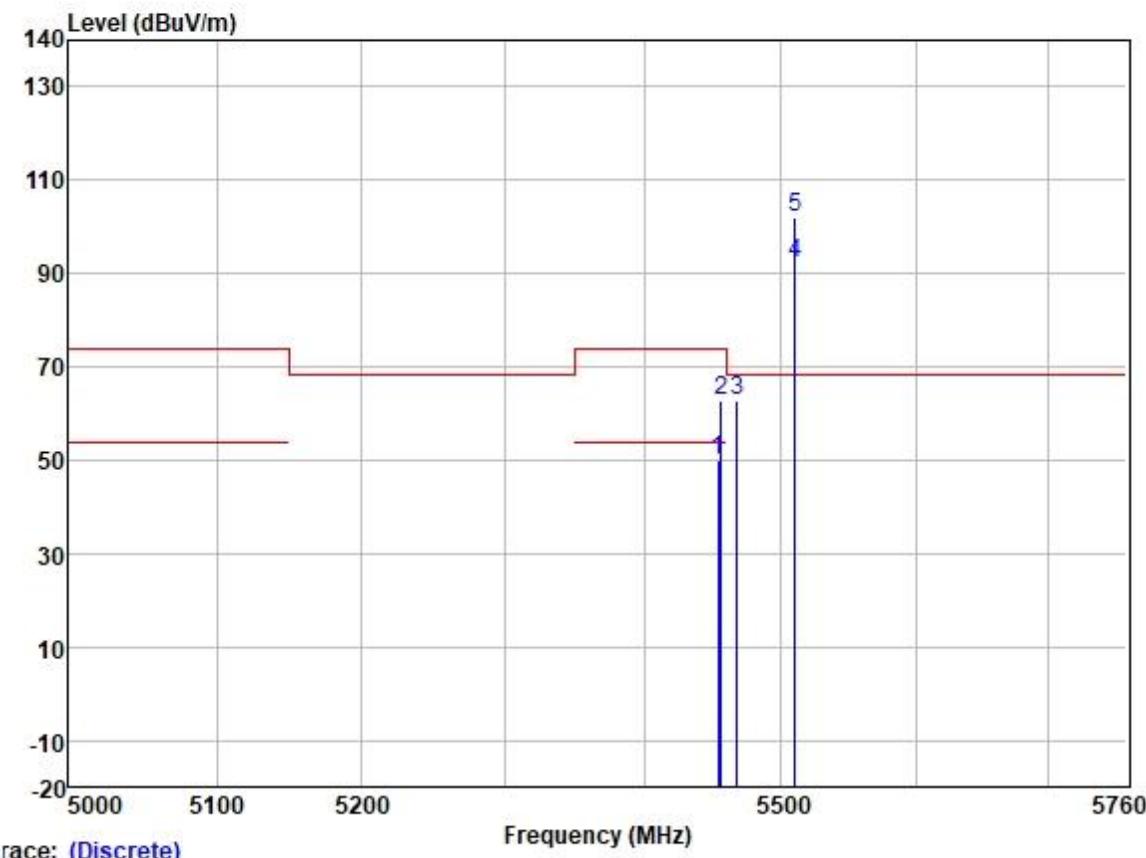
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	Level	dBuV/m	dBuV/m	dB		
1 * 5700.000	106.07	32.01	6.40	36.89	107.59	68.20	39.39	VERTICAL	Peak	
2 5725.000	65.57	32.07	6.25	36.89	67.00	68.20	-1.20	VERTICAL	Peak	
3 5726.083	65.70	32.07	6.25	36.89	67.13	68.20	-1.07	VERTICAL	Peak	

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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB		
1 5453.895	48.63	31.79	6.26	36.88	49.80	54.00	-4.20	HORIZONTAL	Average	
2 5455.850	61.69	31.79	6.26	36.88	62.86	74.00	-11.14	HORIZONTAL	Peak	
3 5467.732	61.57	31.80	6.31	36.88	62.80	68.20	-5.40	HORIZONTAL	Peak	
4 5510.000	90.81	31.80	6.40	36.88	92.13	-----	-----	HORIZONTAL	Average	
5 * 5510.000	100.78	31.80	6.40	36.88	102.10	68.20	33.90	HORIZONTAL	Peak	

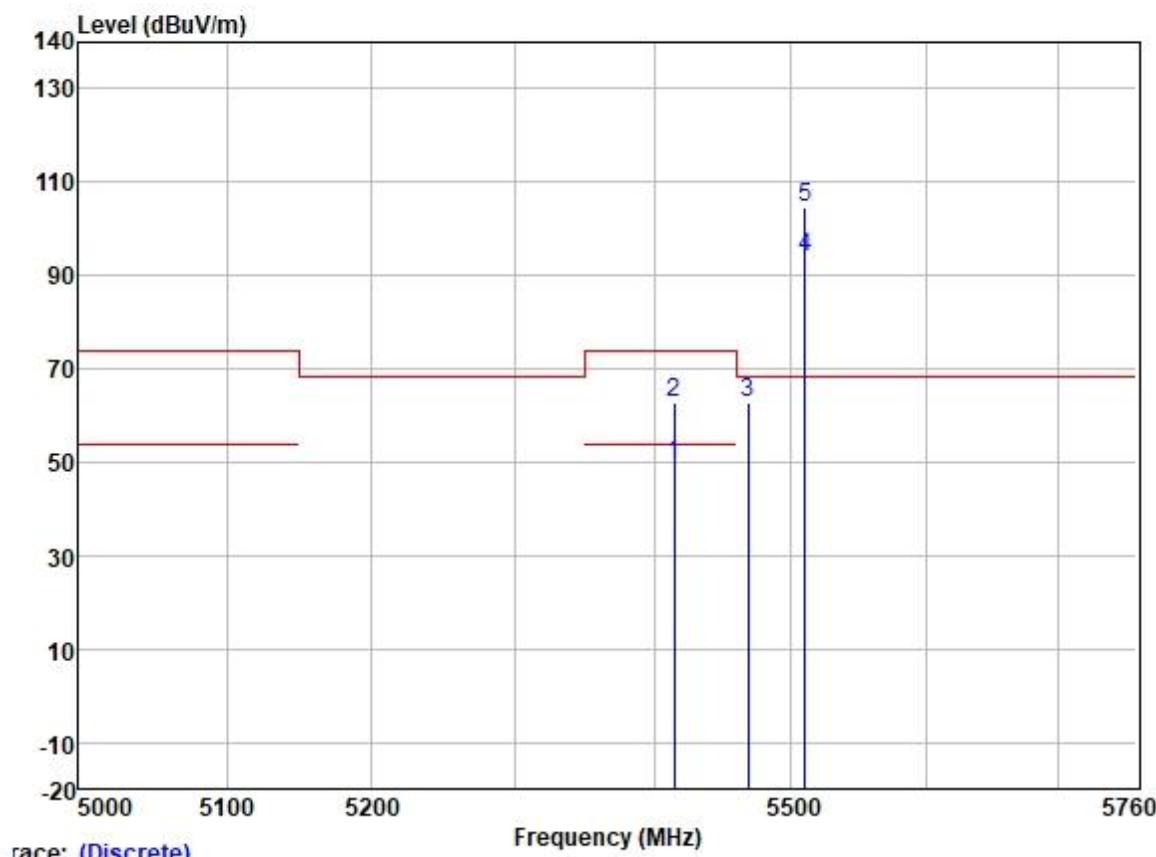
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 5414.394	48.78	31.79	6.06	36.88	49.75	54.00	-4.25	VERTICAL	Average	
2 5414.394	61.91	31.79	6.06	36.88	62.88	74.00	-11.12	VERTICAL	Peak	
3 5468.012	61.37	31.80	6.31	36.88	62.60	68.20	-5.60	VERTICAL	Peak	
4 5510.000	92.67	31.80	6.40	36.88	93.99	-----	-----	VERTICAL	Average	
5 * 5510.000	103.24	31.80	6.40	36.88	104.56	68.20	36.36	VERTICAL	Peak	

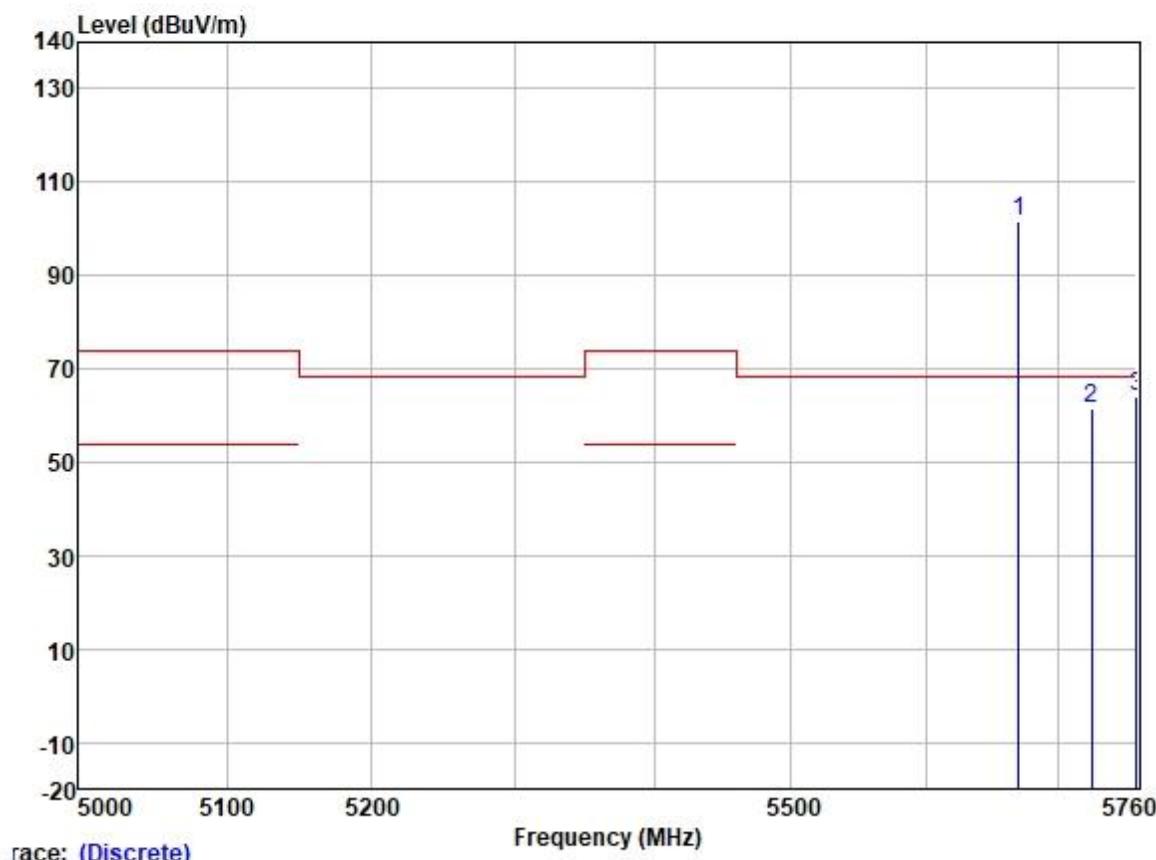
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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:134



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 * 5670.000	100.21	31.97	6.37	36.89	101.66	68.20	33.46	HORIZONTAL	Peak		
2 5725.000	60.27	32.07	6.25	36.89	61.70	68.20	-6.50	HORIZONTAL	Peak		
3 5759.345	62.72	32.13	6.15	36.89	64.11	68.20	-4.09	HORIZONTAL	Peak		

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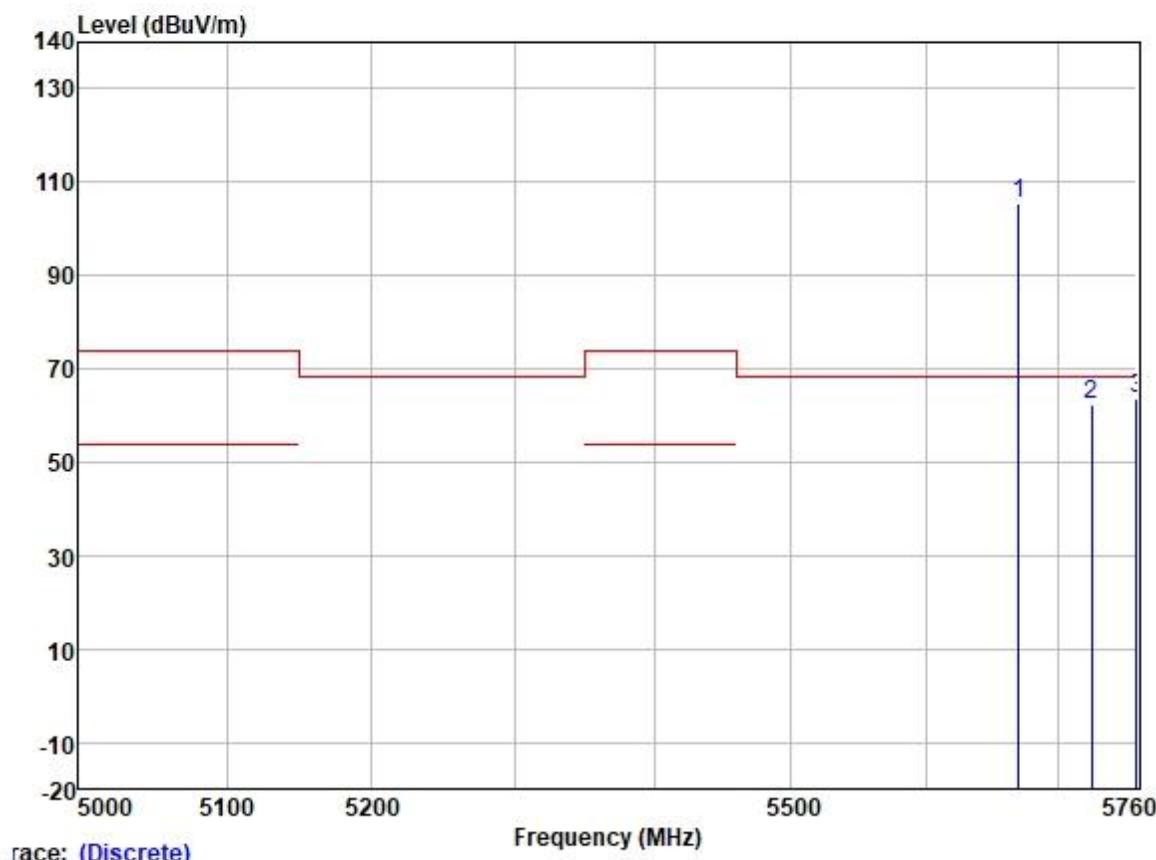
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:134



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	Level	dBuV/m	dBuV/m	dB		
1 * 5670.000	104.09	31.97	6.37	36.89	105.54	68.20	37.34	VERTICAL	Peak	
2 5725.000	60.82	32.07	6.25	36.89	62.25	68.20	-5.95	VERTICAL	Peak	
3 5759.910	62.17	32.13	6.15	36.89	63.56	68.20	-4.64	VERTICAL	Peak	

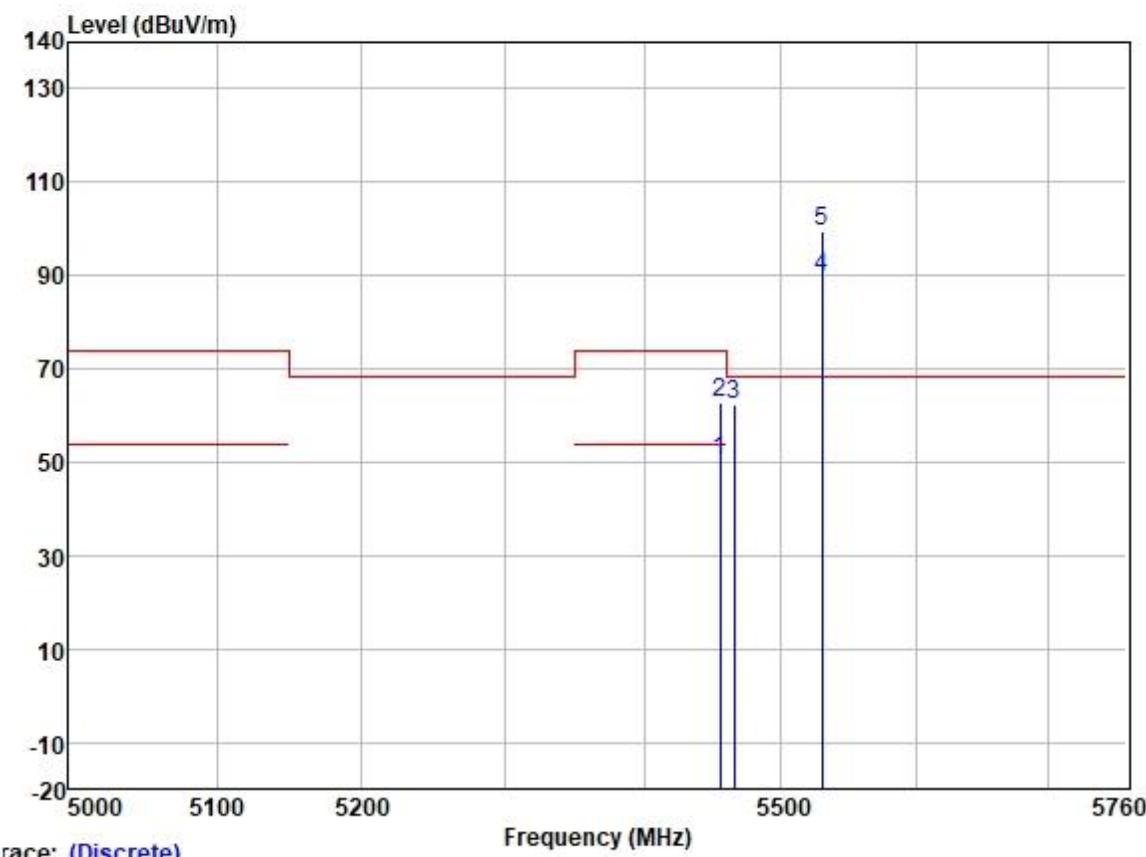
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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 5455.170	49.43	31.79	6.26	36.88	50.60	54.00	-3.40	HORIZONTAL	Average		
2 5455.170	61.69	31.79	6.26	36.88	62.86	74.00	-11.14	HORIZONTAL	Peak		
3 5465.375	60.94	31.80	6.31	36.88	62.17	68.20	-6.03	HORIZONTAL	Peak		
4 5530.000	88.31	31.83	6.37	36.89	89.62	-----	-----	HORIZONTAL	Average		
5 * 5530.000	98.36	31.83	6.37	36.89	99.67	68.20	31.47	HORIZONTAL	Peak		

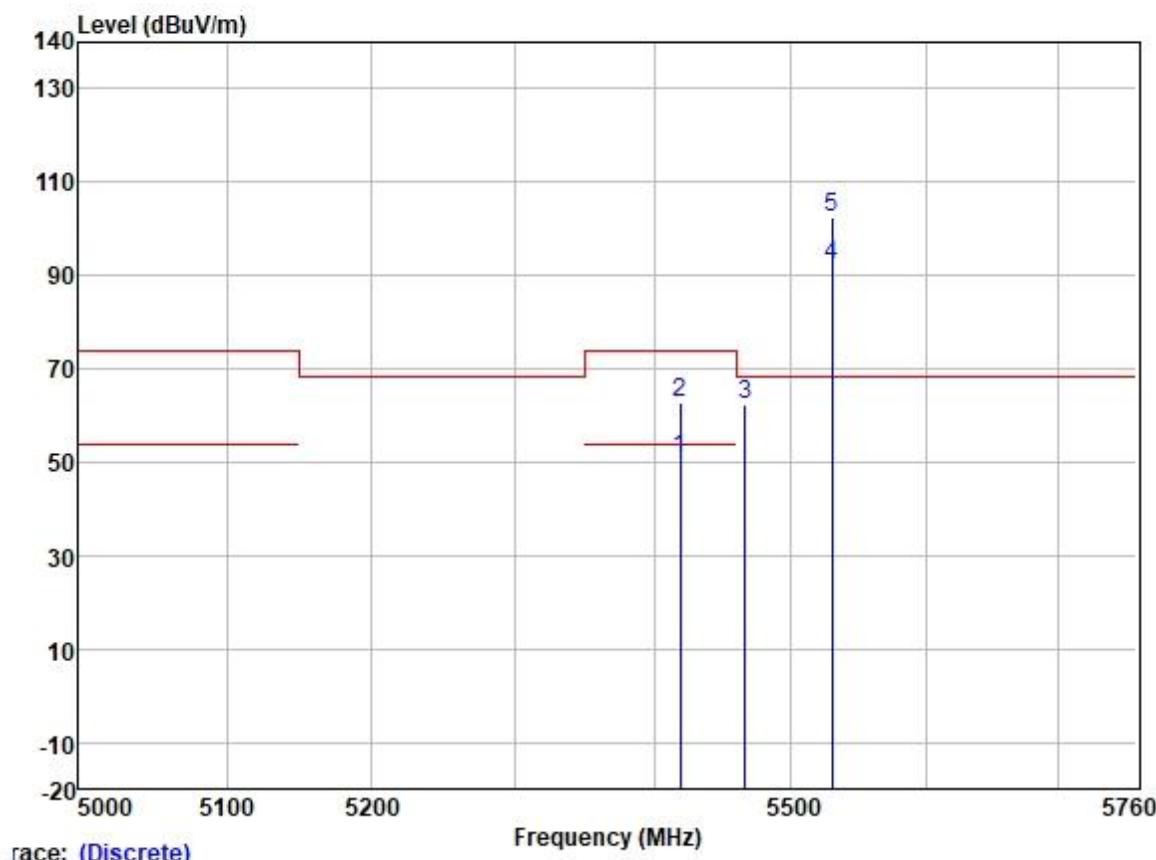
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Race: (Discrete)

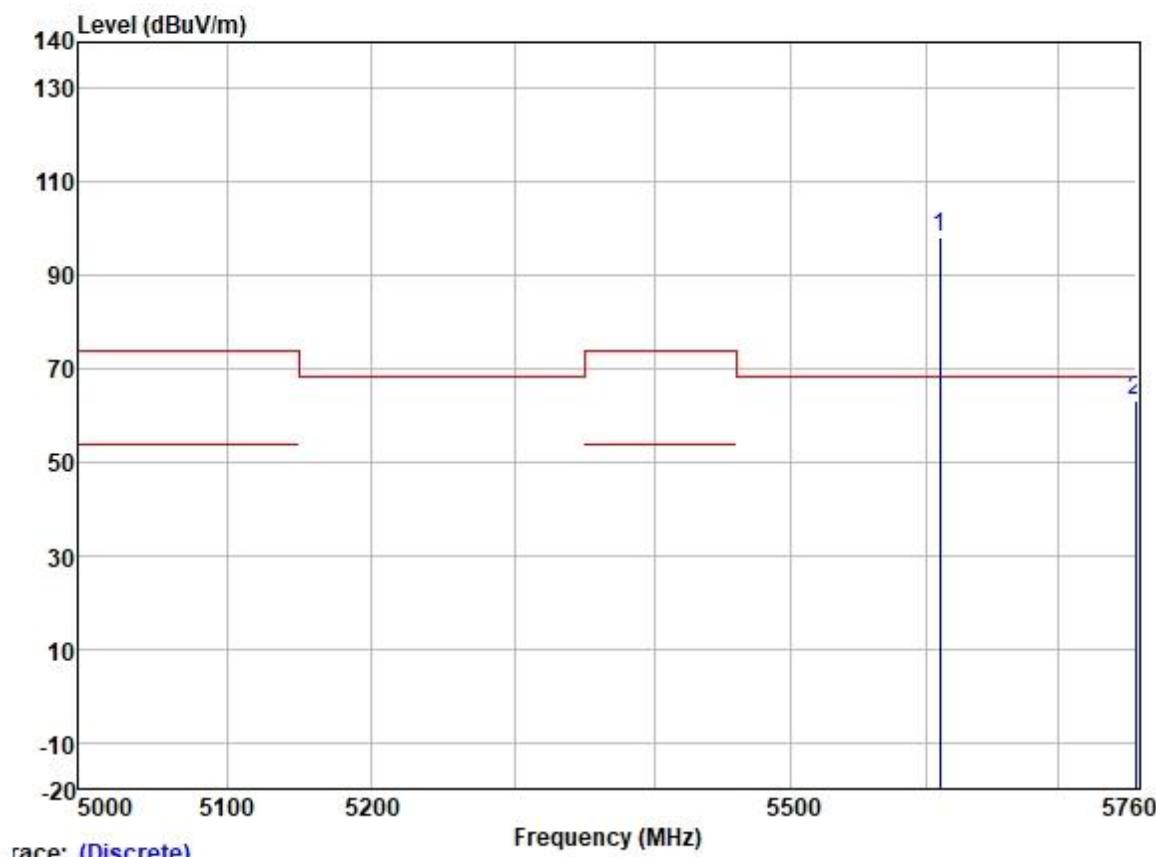
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 5418.446	49.82	31.79	6.13	36.88	50.86	54.00	-3.14	VERTICAL			Average
2 5418.446	61.59	31.79	6.13	36.88	62.63	74.00	-11.37	VERTICAL			Peak
3 5466.092	61.32	31.80	6.31	36.88	62.55	68.20	-5.65	VERTICAL			Peak
4 5530.000	90.72	31.83	6.37	36.89	92.03	-----	-----	VERTICAL			Average
5 * 5530.000	101.04	31.83	6.37	36.89	102.35	68.20	34.15	VERTICAL			Peak



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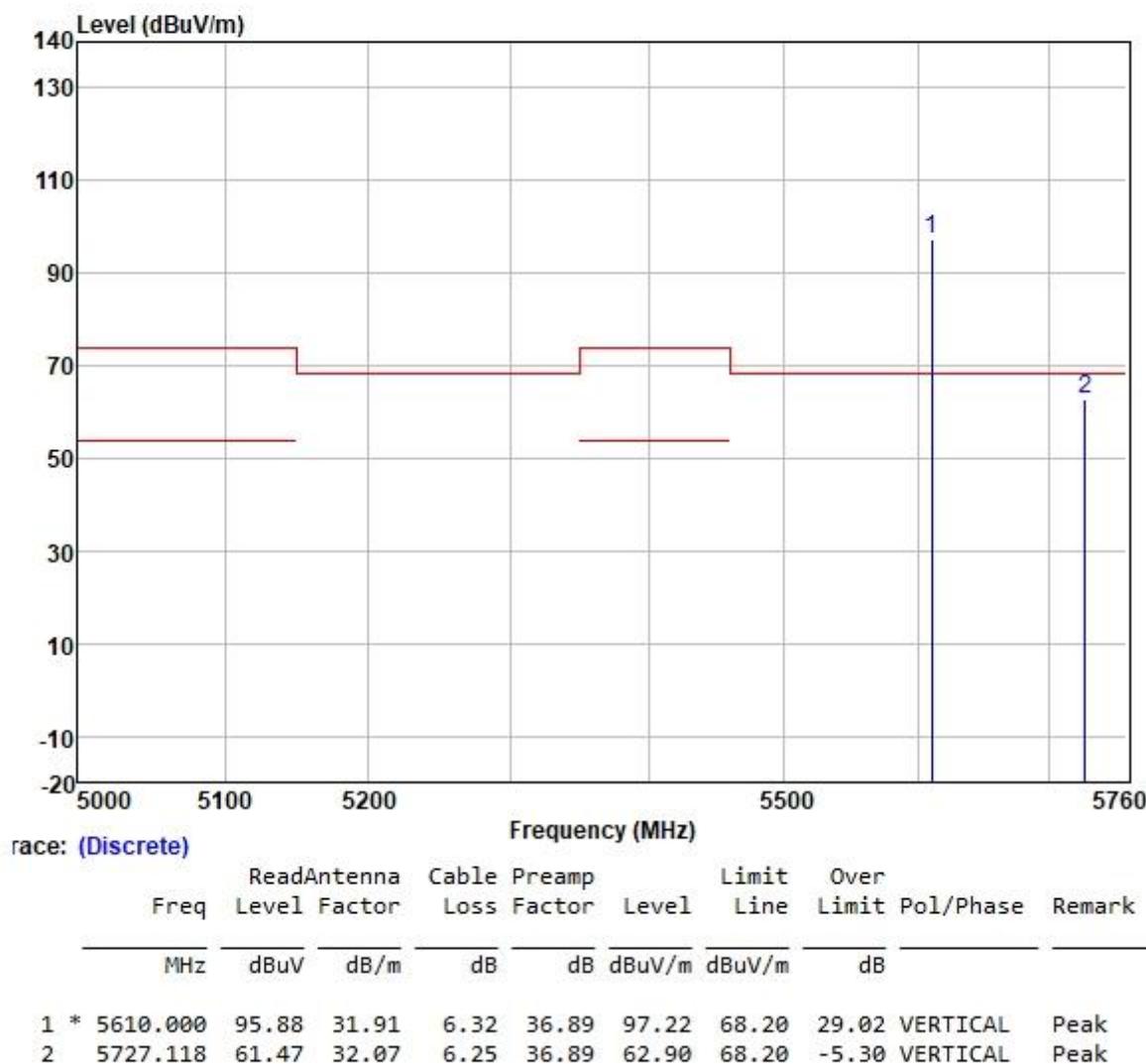
Test Mode: 22; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:122



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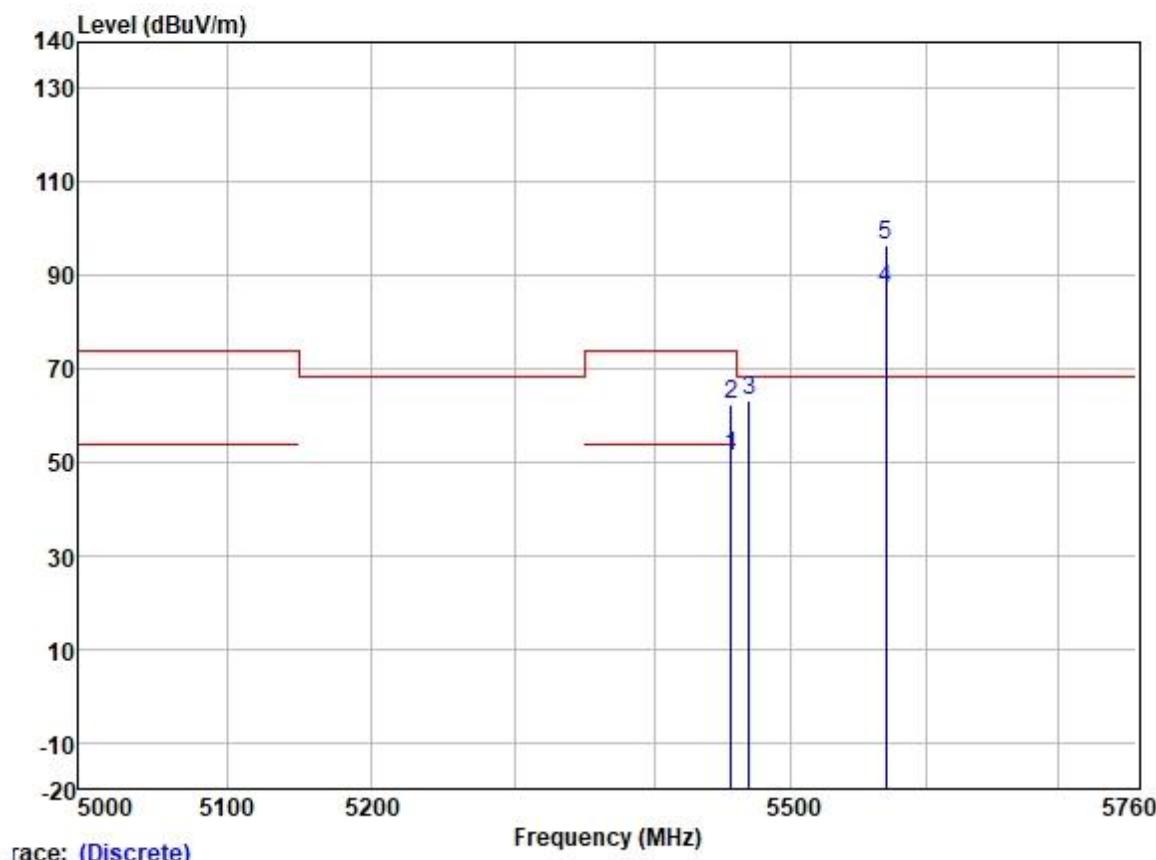
Test Mode: 22; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:122



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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB
1 5456.008	49.90	31.79	6.26	36.88	51.07	54.00	54.00	-2.93	HORIZONTAL	Average		
2 5456.008	61.15	31.79	6.26	36.88	62.32	74.00	74.00	-11.68	HORIZONTAL	Peak		
3 5468.863	61.81	31.80	6.31	36.88	63.04	68.20	68.20	-5.16	HORIZONTAL	Peak		
4 5570.000	85.94	31.86	6.33	36.89	87.24	-----	-----	-----	HORIZONTAL	Average		
5 * 5570.000	95.33	31.86	6.33	36.89	96.63	68.20	68.20	28.43	HORIZONTAL	Peak		

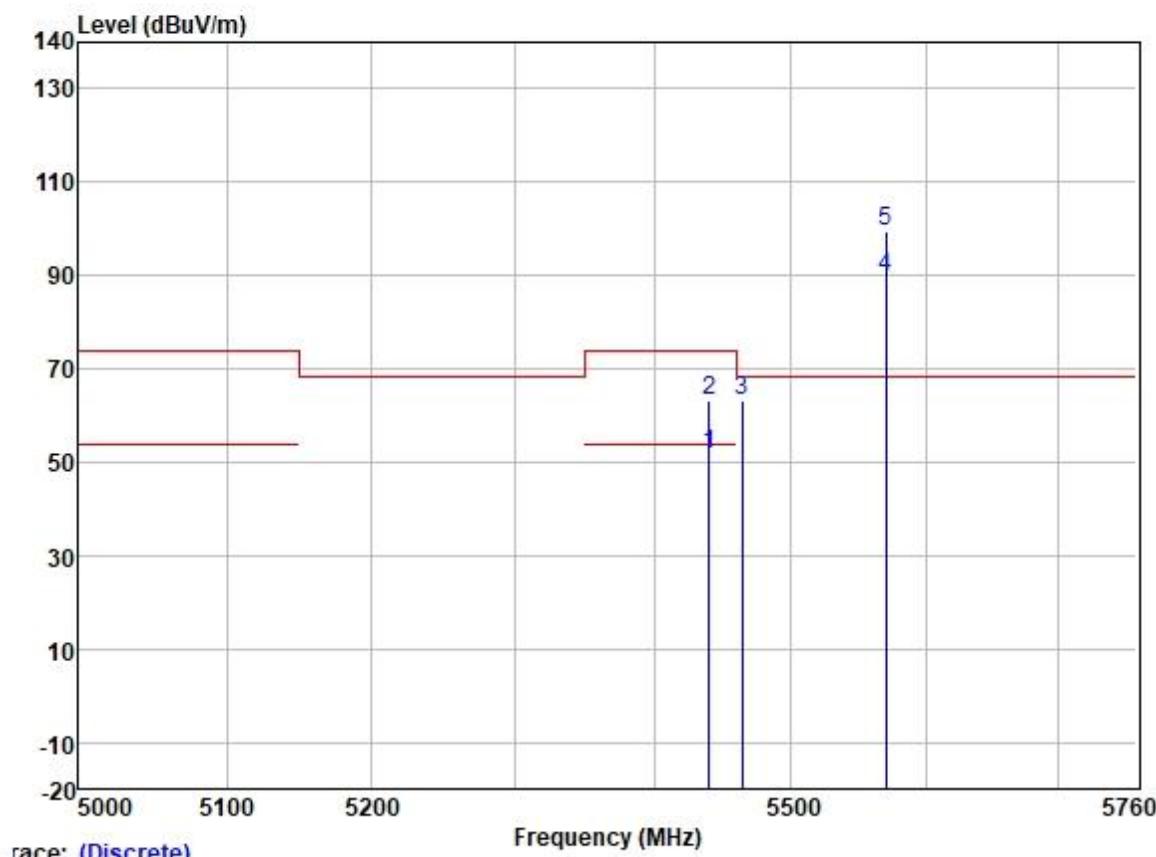
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle

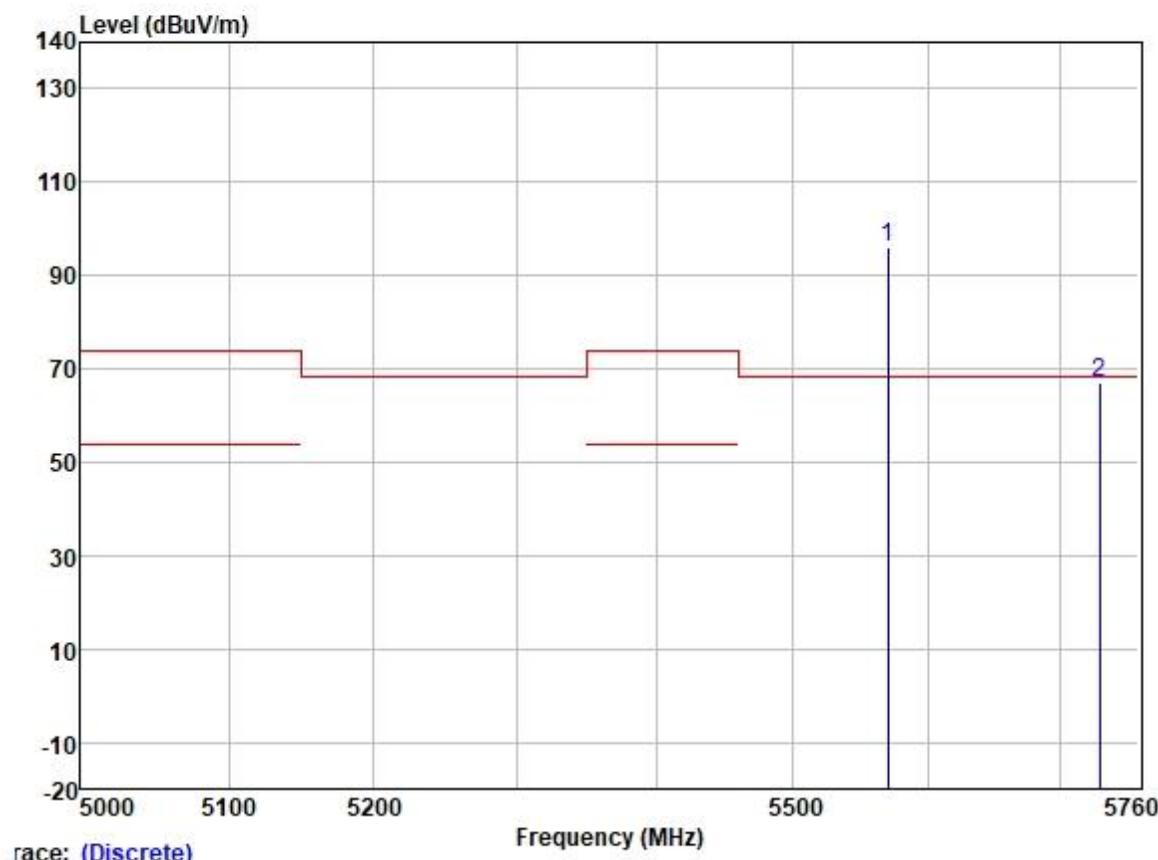


Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level					
1	5439.982	50.61	31.79	6.20	36.88	51.72	54.00	-2.28	VERTICAL	Average	
2	5439.982	62.16	31.79	6.20	36.88	63.27	74.00	-10.73	VERTICAL	Peak	
3	5463.916	62.04	31.80	6.31	36.88	63.27	68.20	-4.93	VERTICAL	Peak	
4	5570.000	88.38	31.86	6.33	36.89	89.68	-----	-----	VERTICAL	Average	
5 *	5570.000	98.37	31.86	6.33	36.89	99.67	68.20	31.47	VERTICAL	Peak	

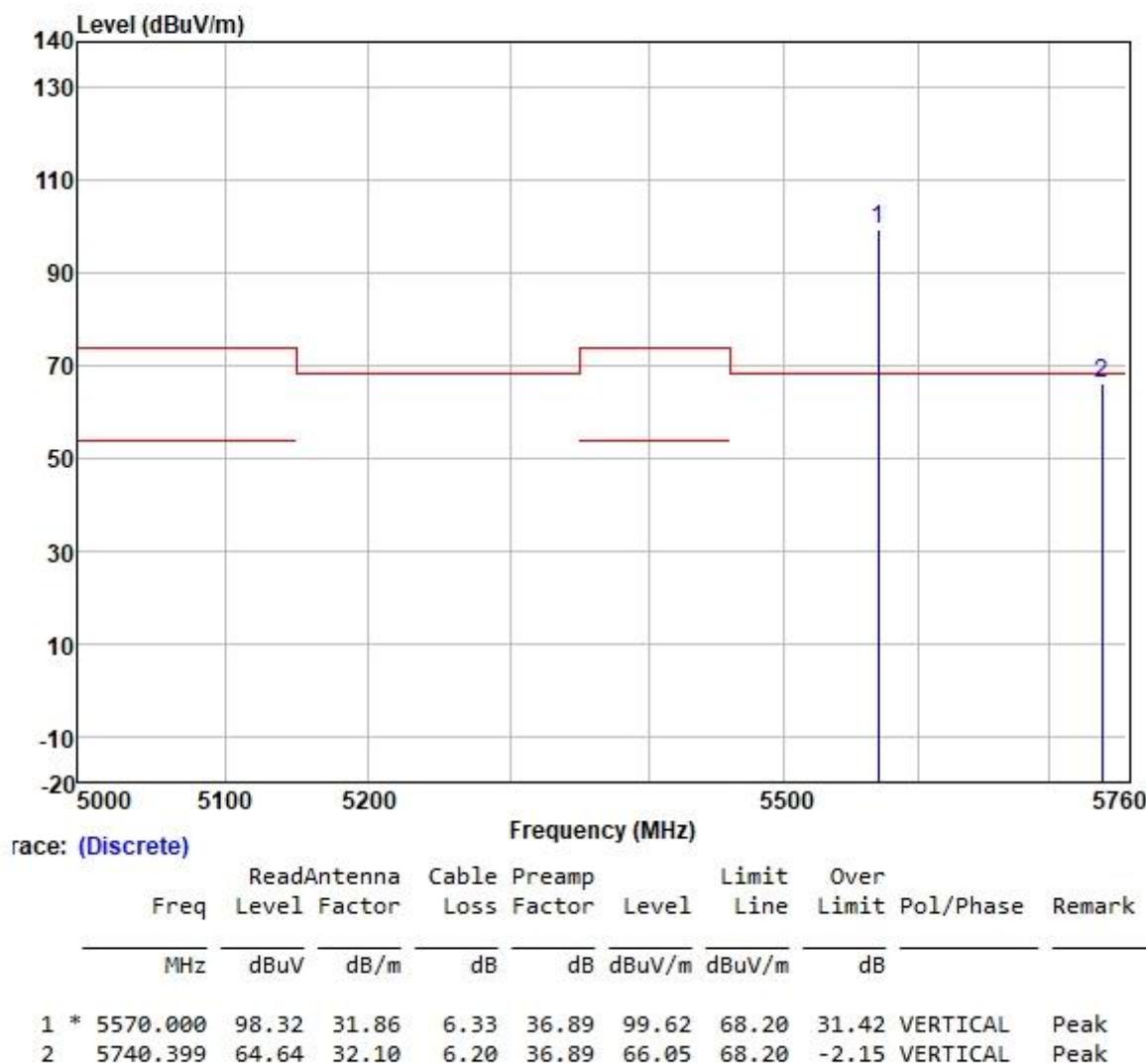
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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:160MHz; Channel:middle



Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:160MHz; Channel:middle



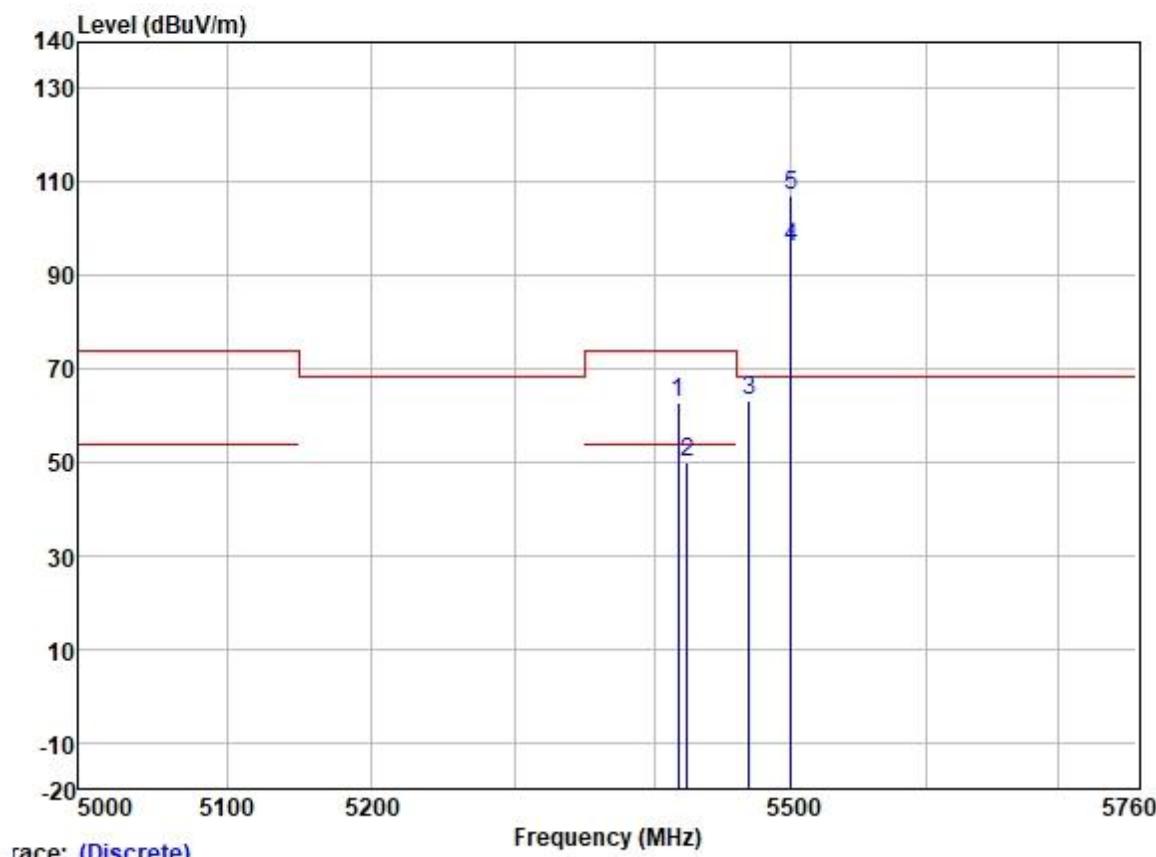
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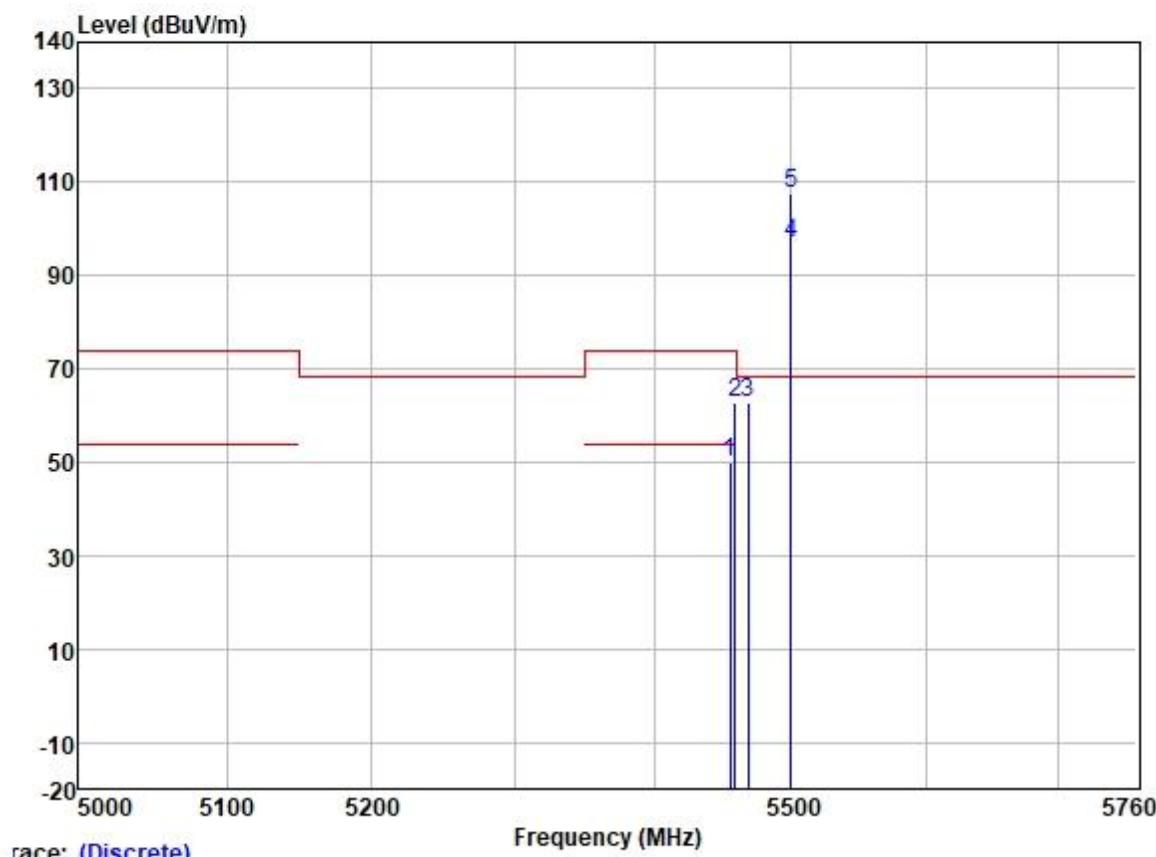


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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

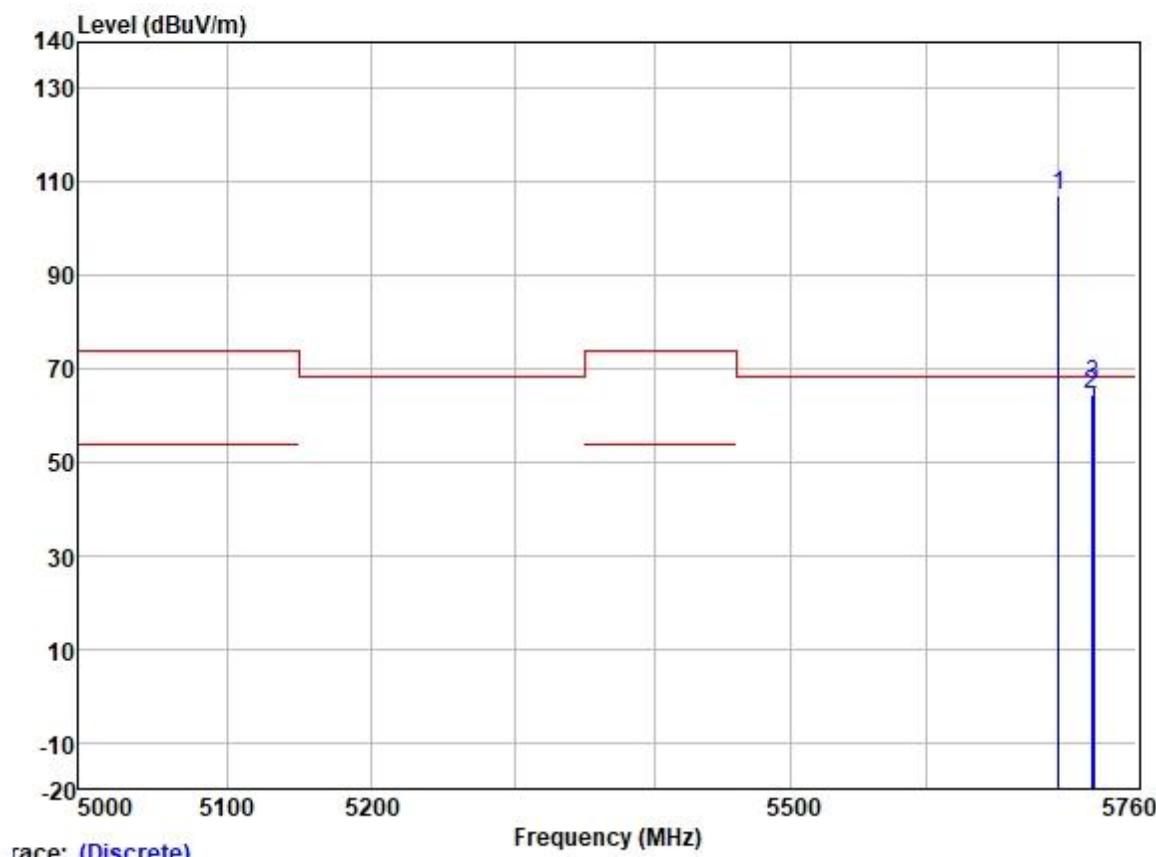
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 5454.992	48.79	31.79	6.26	36.88	49.96	54.00	-4.04	VERTICAL	Average	
2 5458.831	61.79	31.79	6.26	36.88	62.96	74.00	-11.04	VERTICAL	Peak	
3 5468.437	61.73	31.80	6.31	36.88	62.96	68.20	-5.24	VERTICAL	Peak	
4 5500.000	95.53	31.80	6.40	36.88	96.85	-----	-----	VERTICAL	Average	
5 * 5500.000	106.14	31.80	6.40	36.88	107.46	68.20	39.26	VERTICAL	Peak	

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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:140



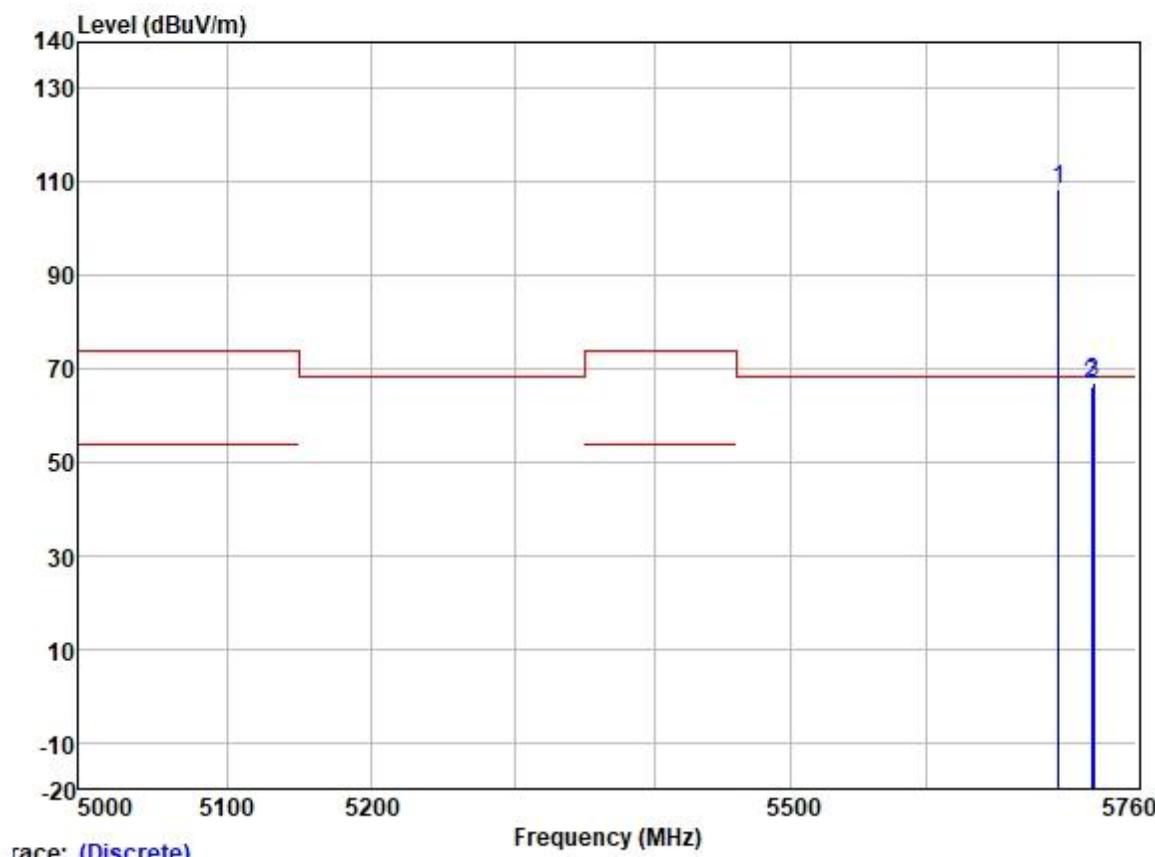
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 * 5700.000	105.63	32.01	6.40	36.89	107.15	68.20	38.95	HORIZONTAL	Peak	
2 5725.000	63.15	32.07	6.25	36.89	64.58	68.20	-3.62	HORIZONTAL	Peak	
3 5726.883	65.38	32.07	6.25	36.89	66.81	68.20	-1.39	HORIZONTAL	Peak	

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Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:140

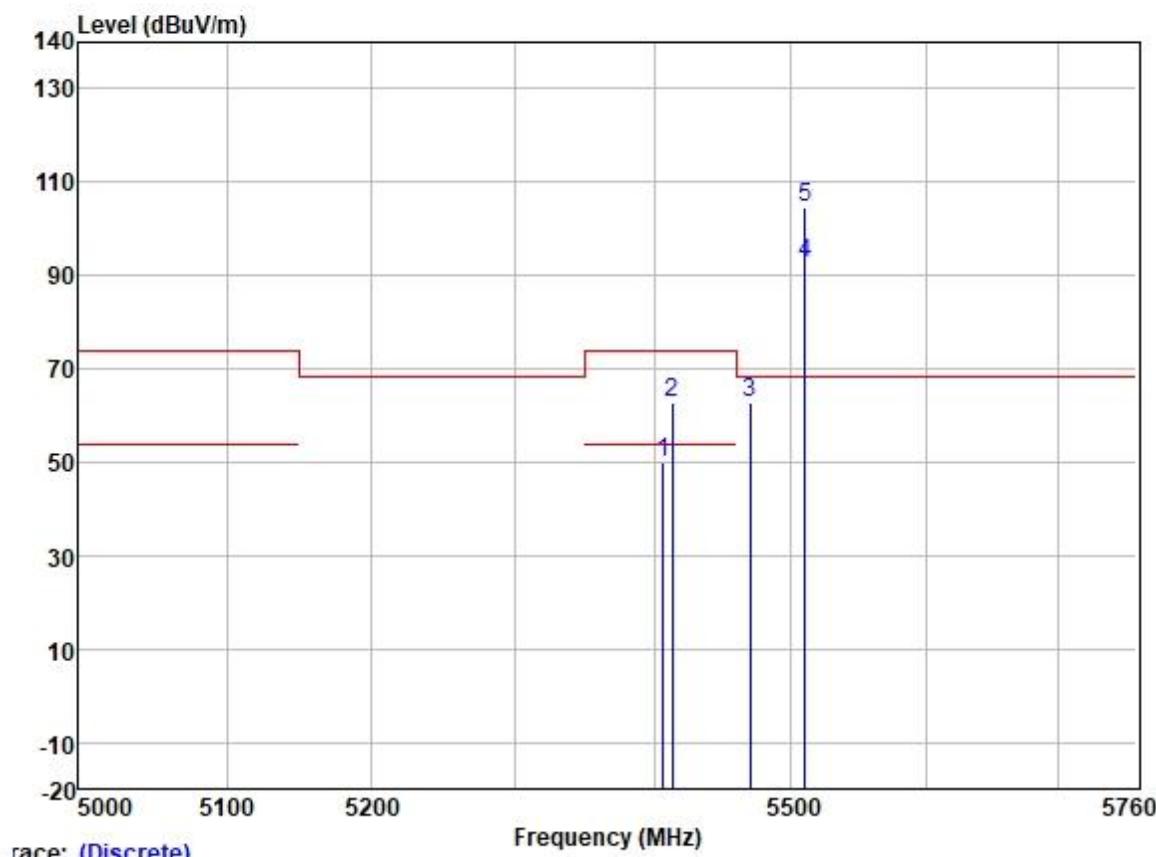


Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB					
1 * 5700.000	106.94	32.01	6.40	36.89	108.46	68.20	40.26	VERTICAL				Peak
2 5725.000	64.97	32.07	6.25	36.89	66.40	68.20	-1.80	VERTICAL				Peak
3 5726.982	65.80	32.07	6.25	36.89	67.23	68.20	-0.97	VERTICAL				Peak

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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



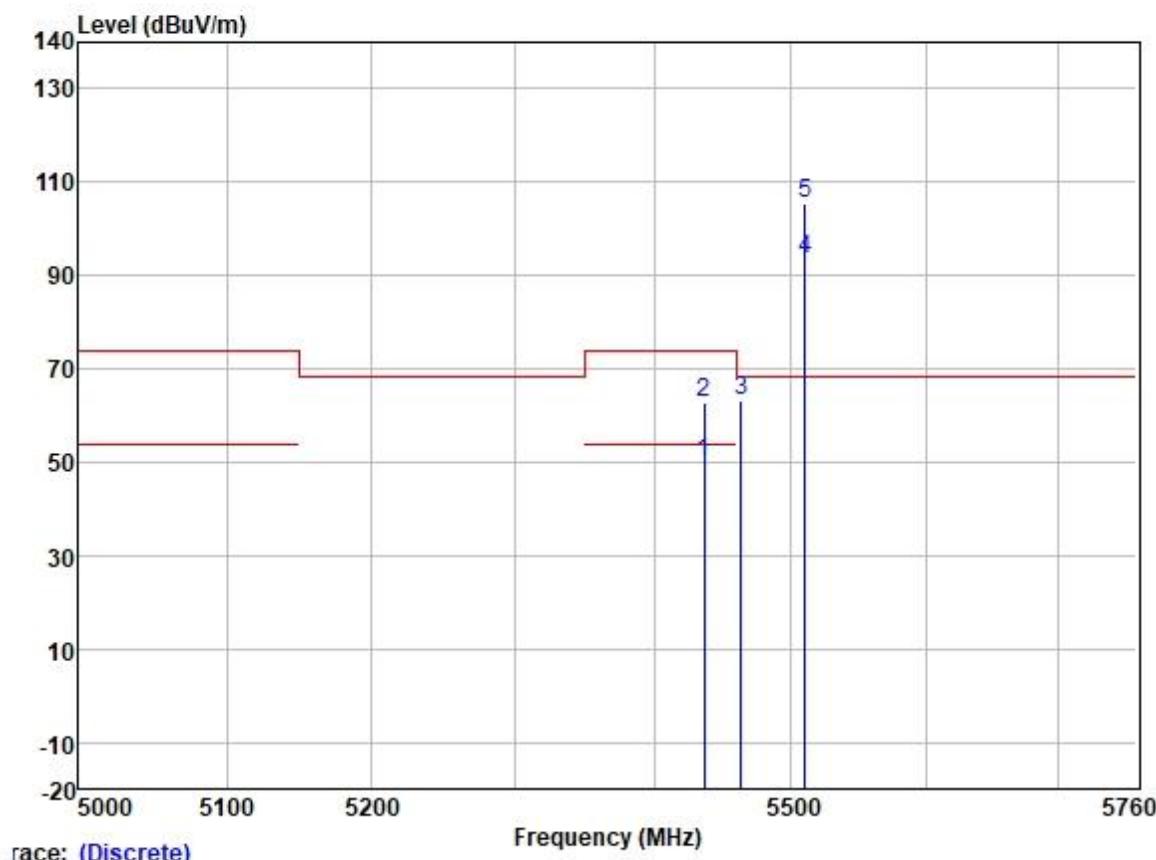
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	5406.639	48.92	31.79	6.06	36.88	49.89	54.00	-4.11	HORIZONTAL	Average
2	5412.870	61.94	31.79	6.06	36.88	62.91	74.00	-11.09	HORIZONTAL	Peak
3	5469.972	61.46	31.80	6.31	36.88	62.69	68.20	-5.51	HORIZONTAL	Peak
4	5510.000	91.46	31.80	6.40	36.88	92.78	-----	-----	HORIZONTAL	Average
5 *	5510.000	103.25	31.80	6.40	36.88	104.57	68.20	36.37	HORIZONTAL	Peak

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Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



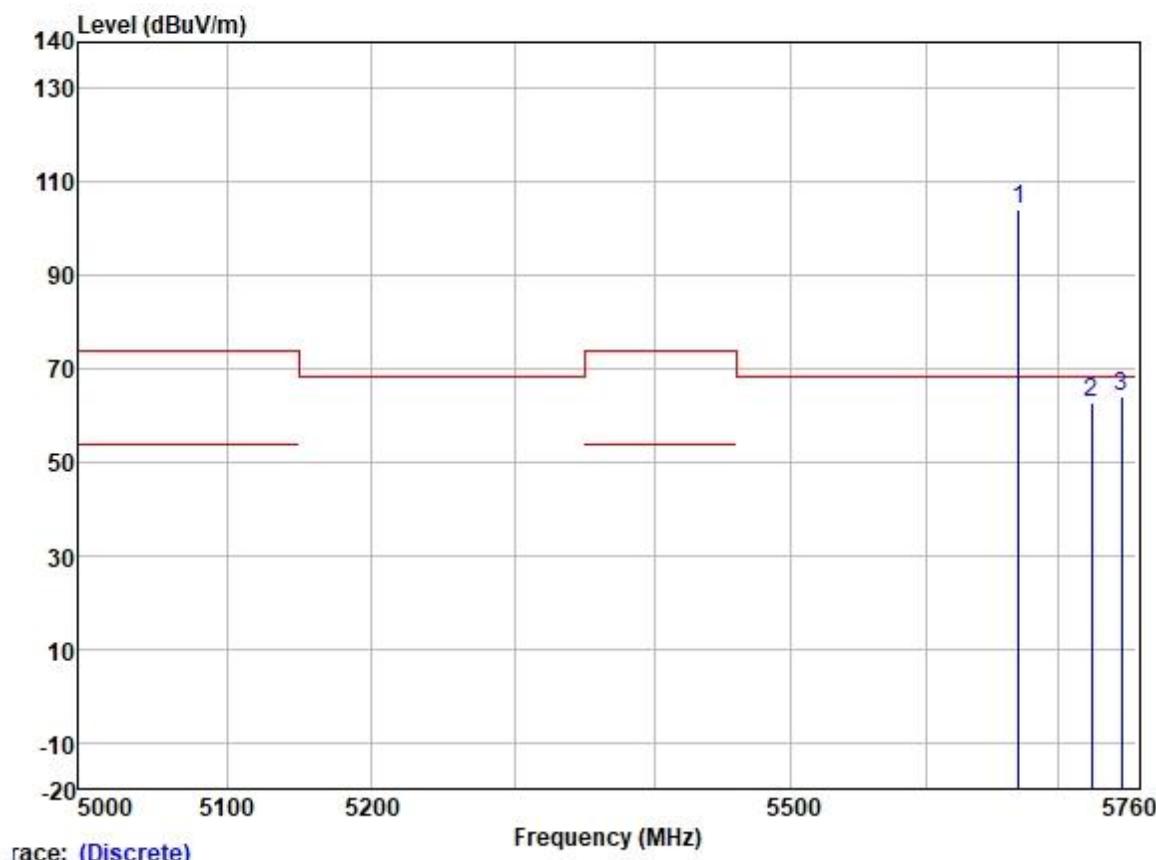
Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	5436.474	48.84	31.79	6.20	36.88	49.95	54.00	-4.05	VERTICAL	Average	
2	5436.474	61.67	31.79	6.20	36.88	62.78	74.00	-11.22	VERTICAL	Peak	
3	5463.396	61.90	31.79	6.26	36.88	63.07	68.20	-5.13	VERTICAL	Peak	
4	5510.000	92.00	31.80	6.40	36.88	93.32	-----	-----	VERTICAL	Average	
5 *	5510.000	104.01	31.80	6.40	36.88	105.33	68.20	37.13	VERTICAL	Peak	

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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:134



Race: (Discrete)

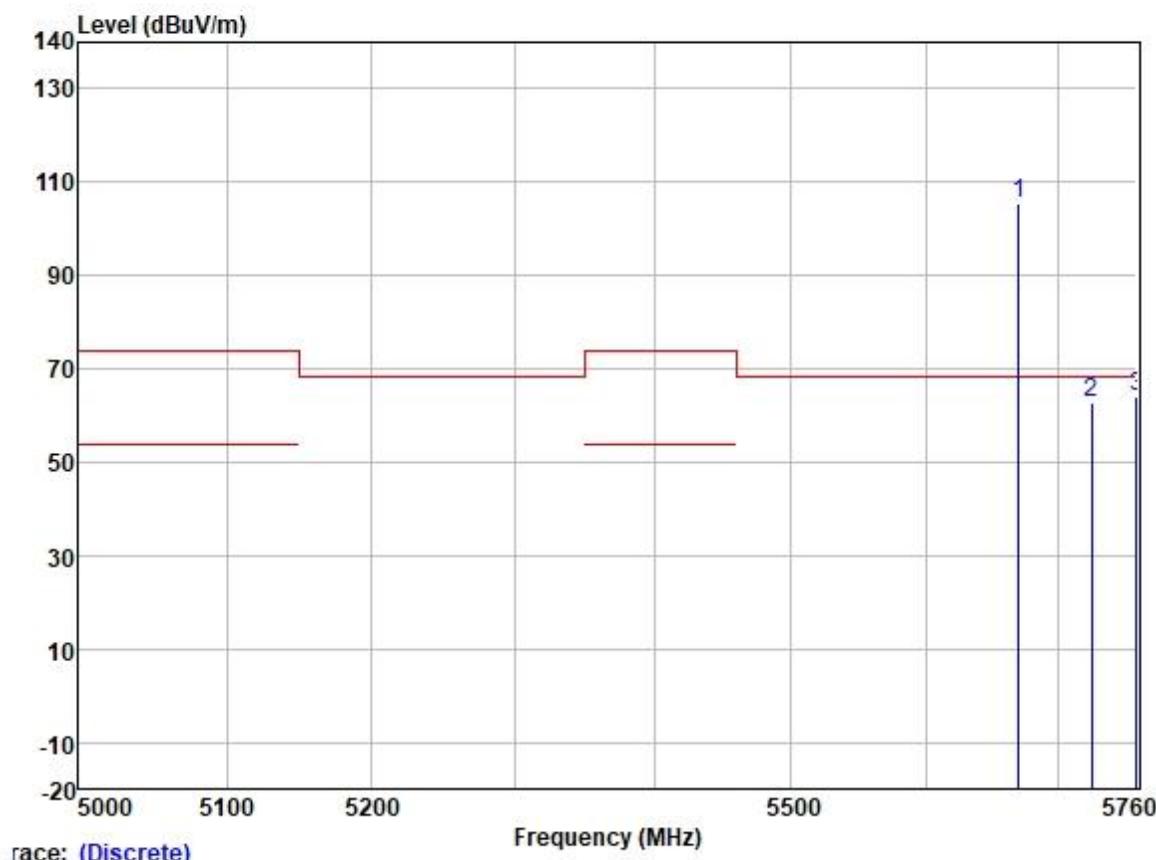
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 * 5670.000	102.66	31.97	6.37	36.89	104.11	68.20	35.91	HORIZONTAL	Peak	
2 5725.000	61.31	32.07	6.25	36.89	62.74	68.20	-5.46	HORIZONTAL	Peak	
3 5748.482	62.46	32.10	6.20	36.89	63.87	68.20	-4.33	HORIZONTAL	Peak	



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Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:134

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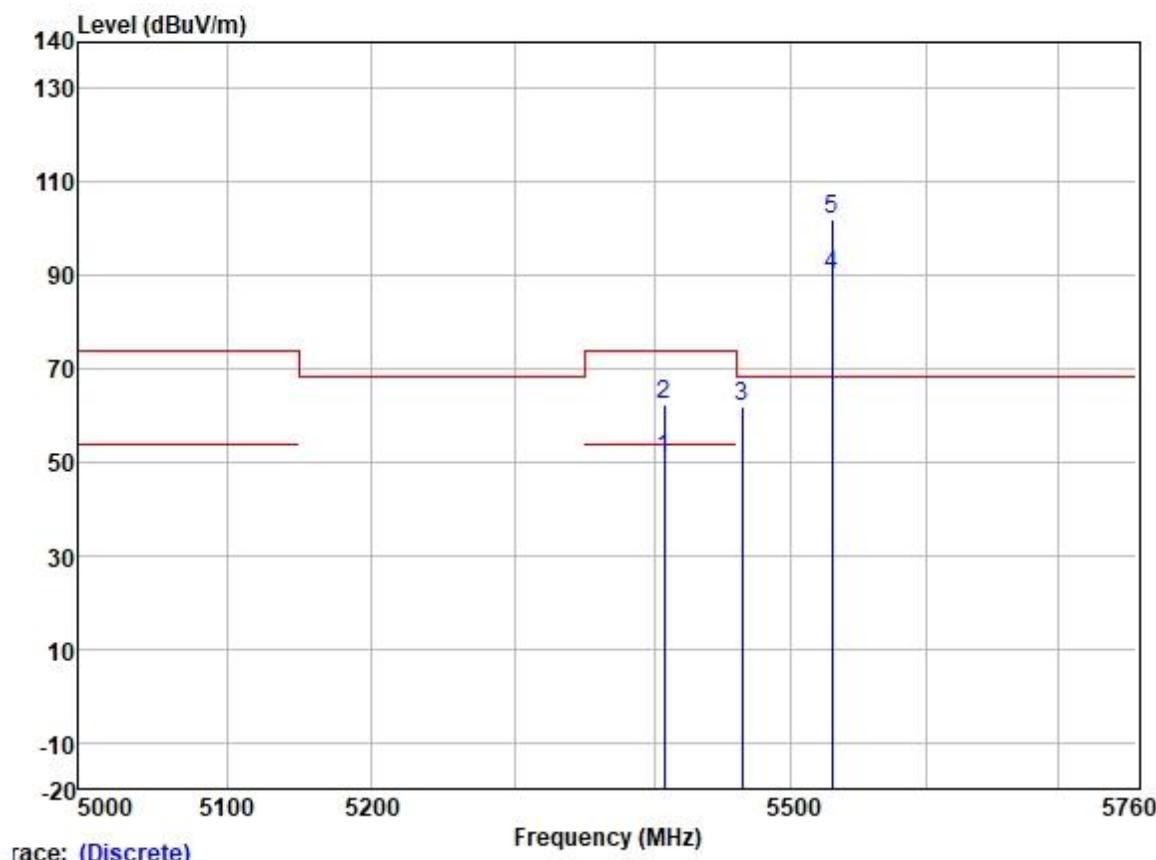
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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	5407.442	49.72	31.79	6.06	36.88	50.69	54.00	-3.31	HORIZONTAL	Average	
2	5407.442	61.43	31.79	6.06	36.88	62.40	74.00	-11.60	HORIZONTAL	Peak	
3	5463.763	60.83	31.80	6.31	36.88	62.06	68.20	-6.14	HORIZONTAL	Peak	
4	5530.000	88.85	31.83	6.37	36.89	90.16	-----	-----	HORIZONTAL	Average	
5 *	5530.000	100.81	31.83	6.37	36.89	102.12	68.20	33.92	HORIZONTAL	Peak	

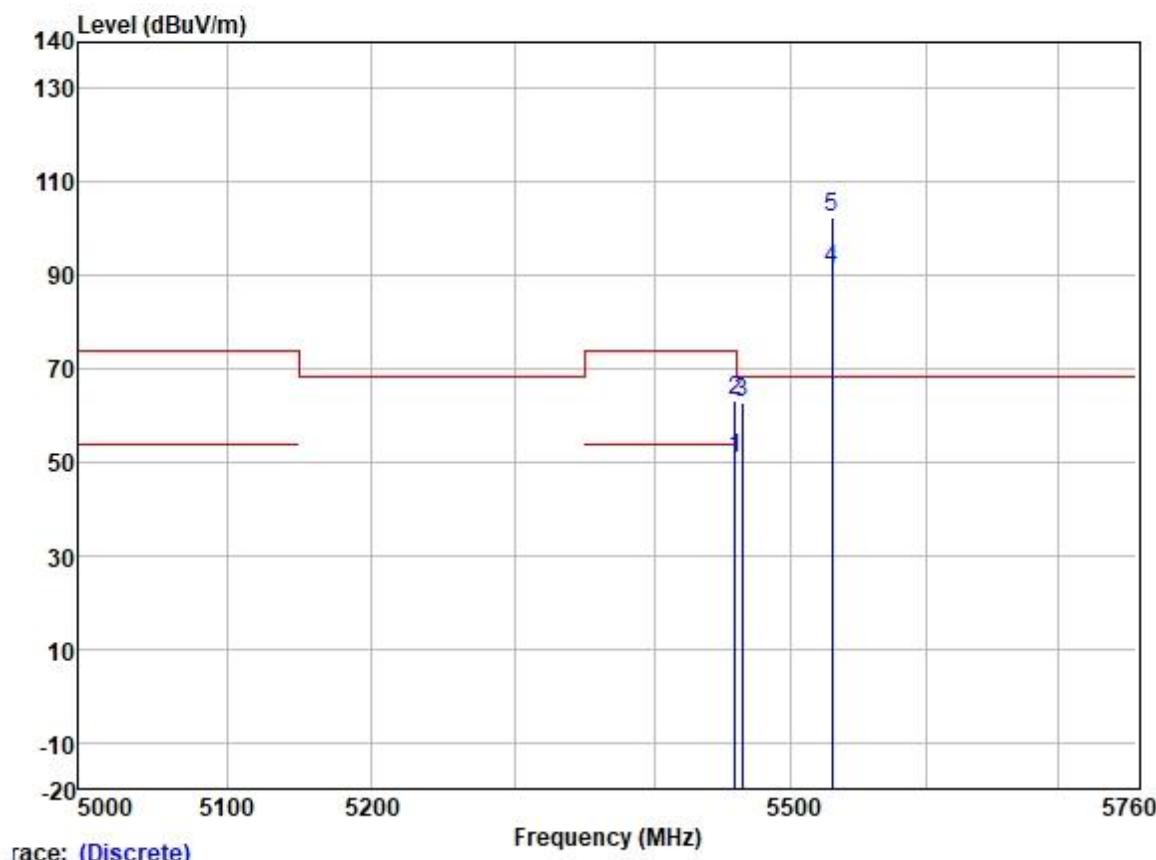
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:Low



ReadAntenna	Cable	Preamp	Limit	Over	Limit		Over	Pol/Phase	Remark
					Freq	Level			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5458.570	49.59	31.79	6.26	36.88	50.76	54.00	-3.24	VERTICAL Average
2	5458.570	61.83	31.79	6.26	36.88	63.00	74.00	-11.00	VERTICAL Peak
3	5463.942	61.53	31.80	6.31	36.88	62.76	68.20	-5.44	VERTICAL Peak
4	5530.000	89.92	31.83	6.37	36.89	91.23	-----	-----	VERTICAL Average
5 *	5530.000	101.29	31.83	6.37	36.89	102.60	68.20	34.40	VERTICAL Peak

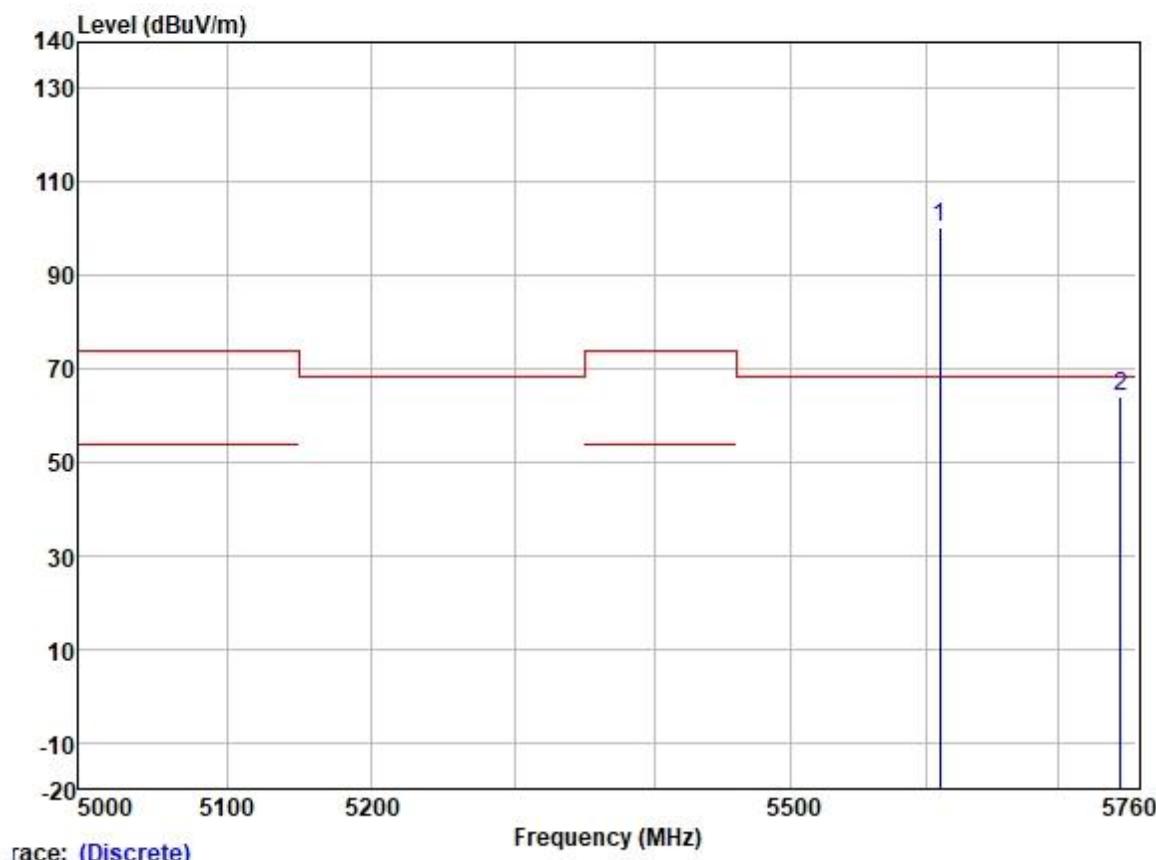
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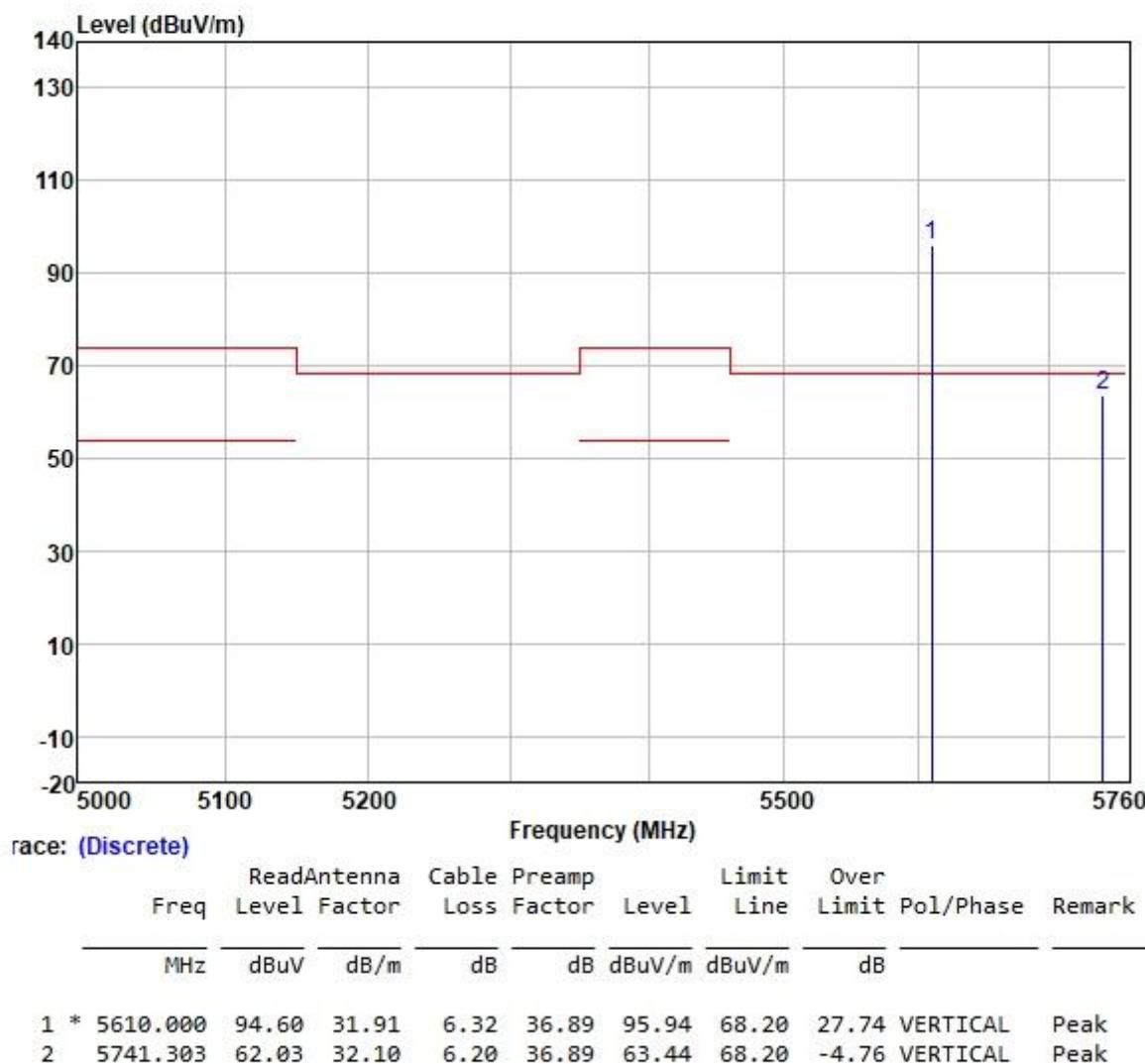
Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:122



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Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:122



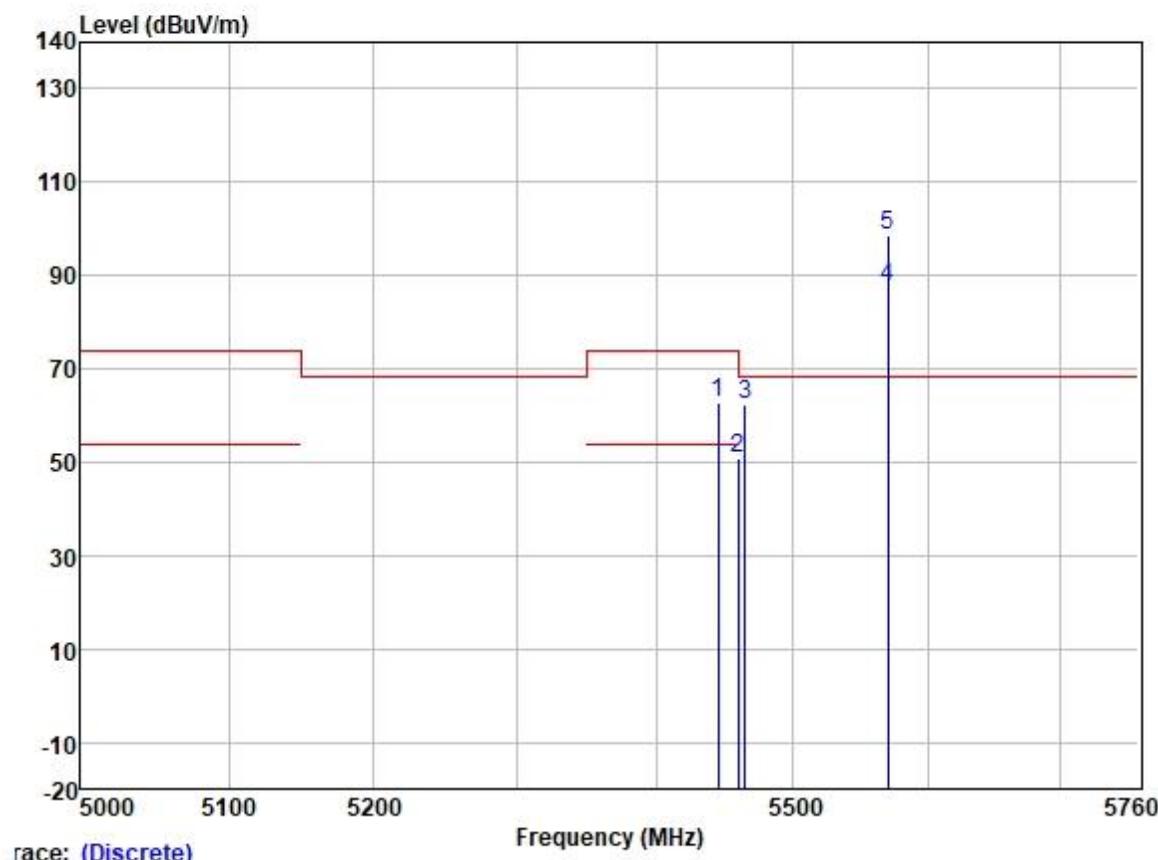
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Test Mode: 22; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:160MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB					
1 5444.662	61.47	31.79	6.20	36.88	62.58	74.00	-11.42	HORIZONTAL	Peak			
2 5459.713	49.83	31.79	6.26	36.88	51.00	54.00	-3.00	HORIZONTAL	Average			
3 5464.657	61.01	31.80	6.31	36.88	62.24	68.20	-5.96	HORIZONTAL	Peak			
4 5570.000	86.06	31.86	6.33	36.89	87.36	-----	-----	HORIZONTAL	Average			
5 * 5570.000	97.36	31.86	6.33	36.89	98.66	68.20	30.46	HORIZONTAL	Peak			

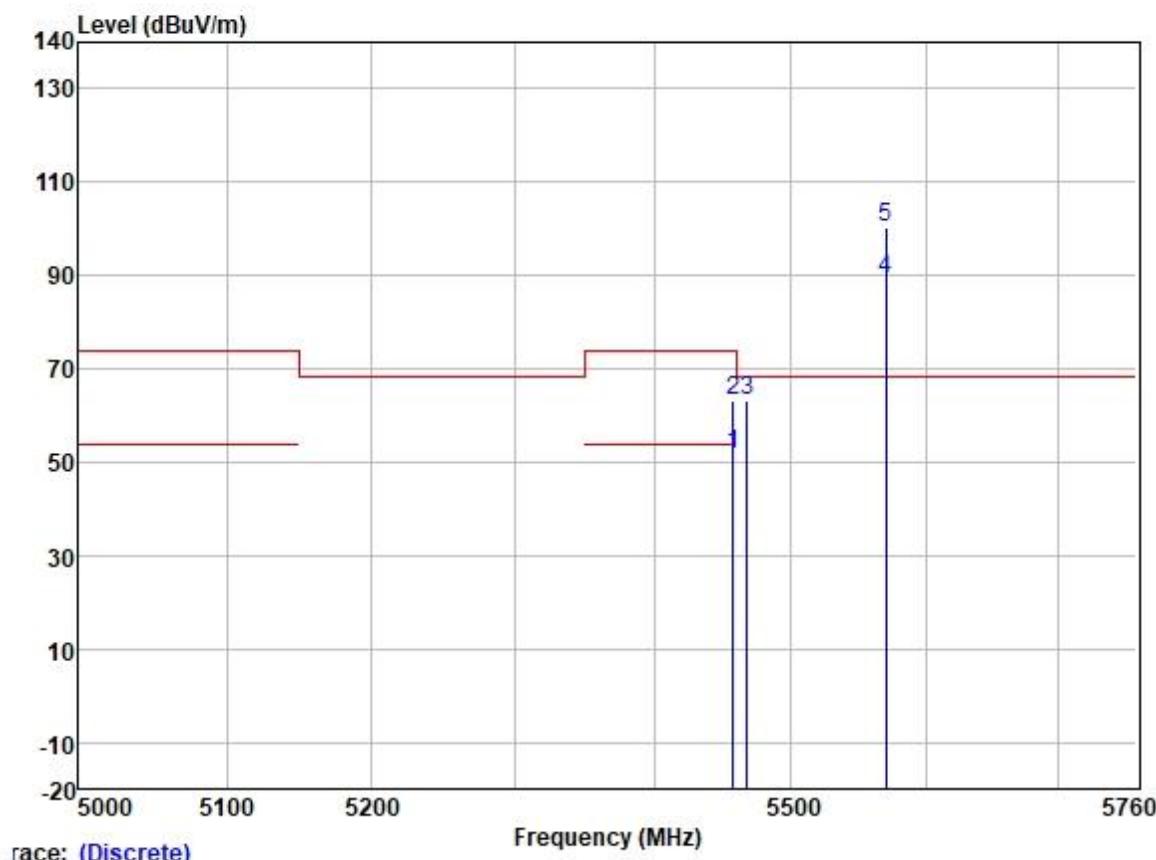
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Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:160MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1 5457.243	50.69	31.79	6.26	36.88	51.86	54.00	-2.14	VERTICAL			Average
2 5457.243	62.14	31.79	6.26	36.88	63.31	74.00	-10.69	VERTICAL			Peak
3 5467.131	62.16	31.80	6.31	36.88	63.39	68.20	-4.81	VERTICAL			Peak
4 5570.000	87.78	31.86	6.33	36.89	89.08	-----	-----	VERTICAL			Average
5 * 5570.000	98.83	31.86	6.33	36.89	100.13	68.20	31.93	VERTICAL			Peak

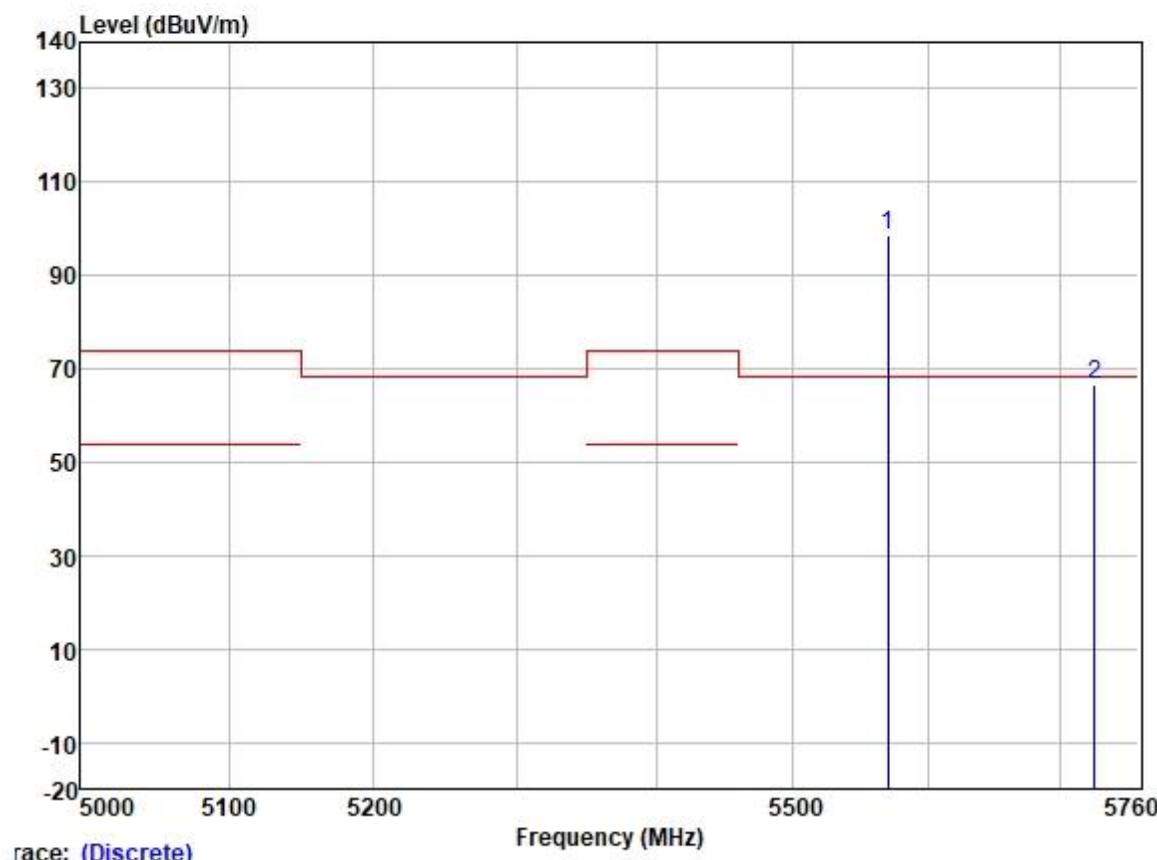
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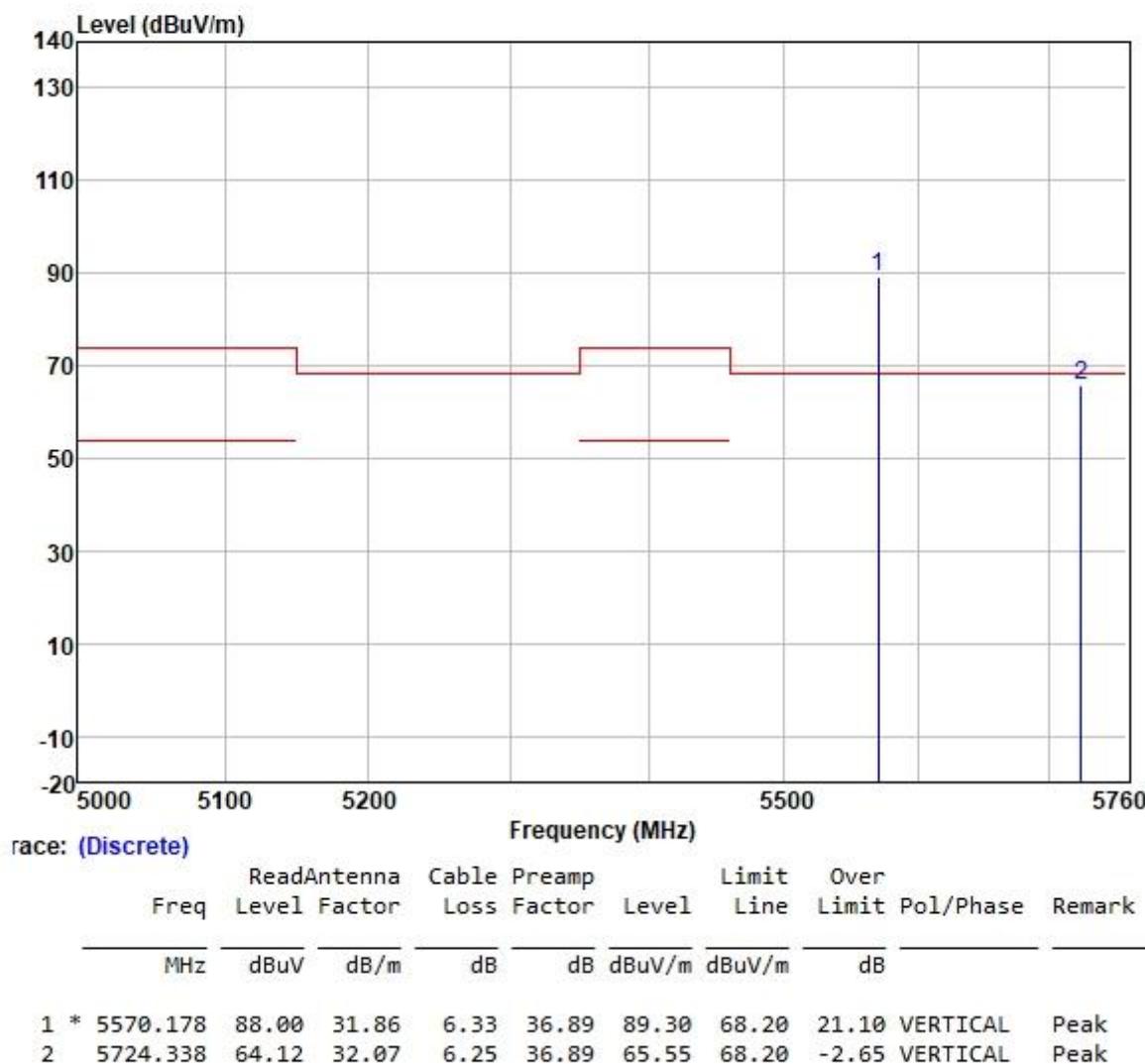
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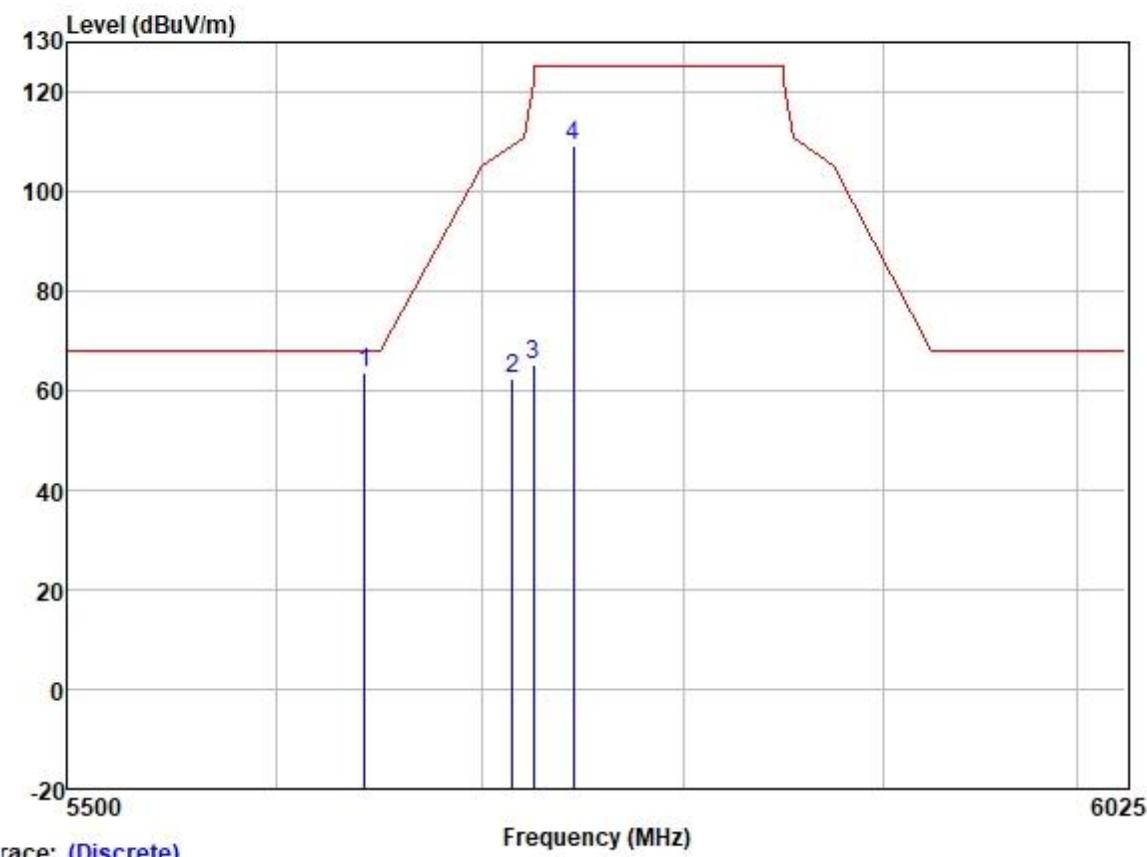
Test Mode: 22; Polarity: Vertical; Modulation:802.11ax; Bandwidth:160MHz; Channel:middle



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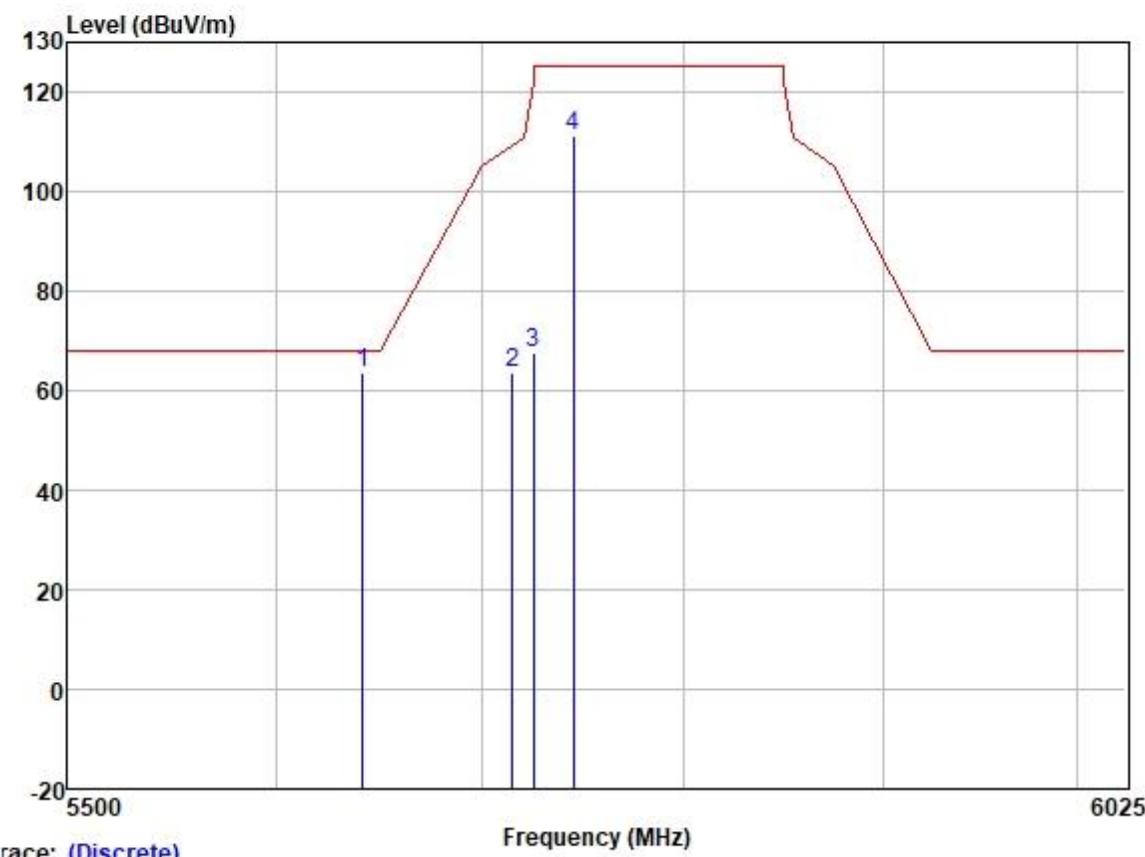
Test Mode: 24; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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Test Mode: 24; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5641.798	62.12	31.95	6.35	36.89	63.53	68.20	-4.67	VERTICAL	Peak
2	5715.000	62.15	32.04	6.33	36.89	63.63	109.40	-45.77	VERTICAL	Peak
3	5725.000	66.21	32.07	6.25	36.89	67.64	122.20	-54.56	VERTICAL	Peak
4	5745.000	109.70	32.10	6.20	36.89	111.11	125.20	-14.09	VERTICAL	Peak

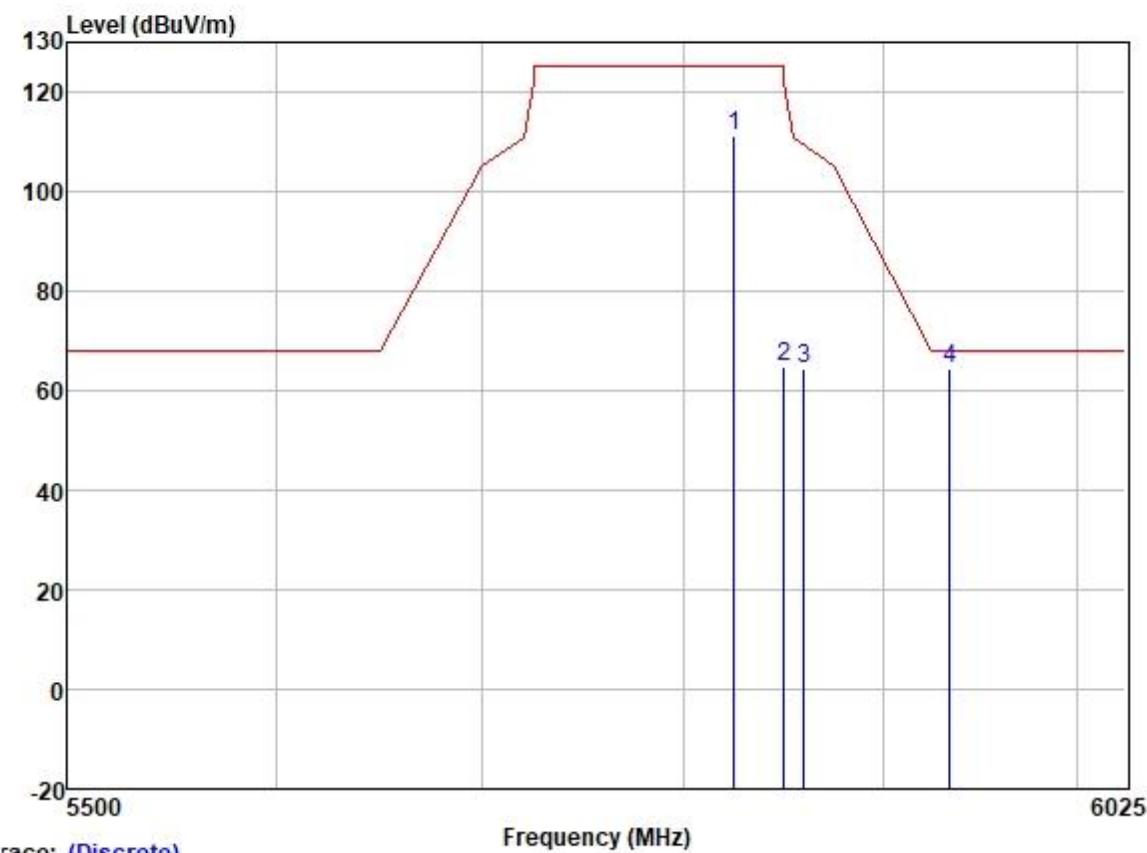
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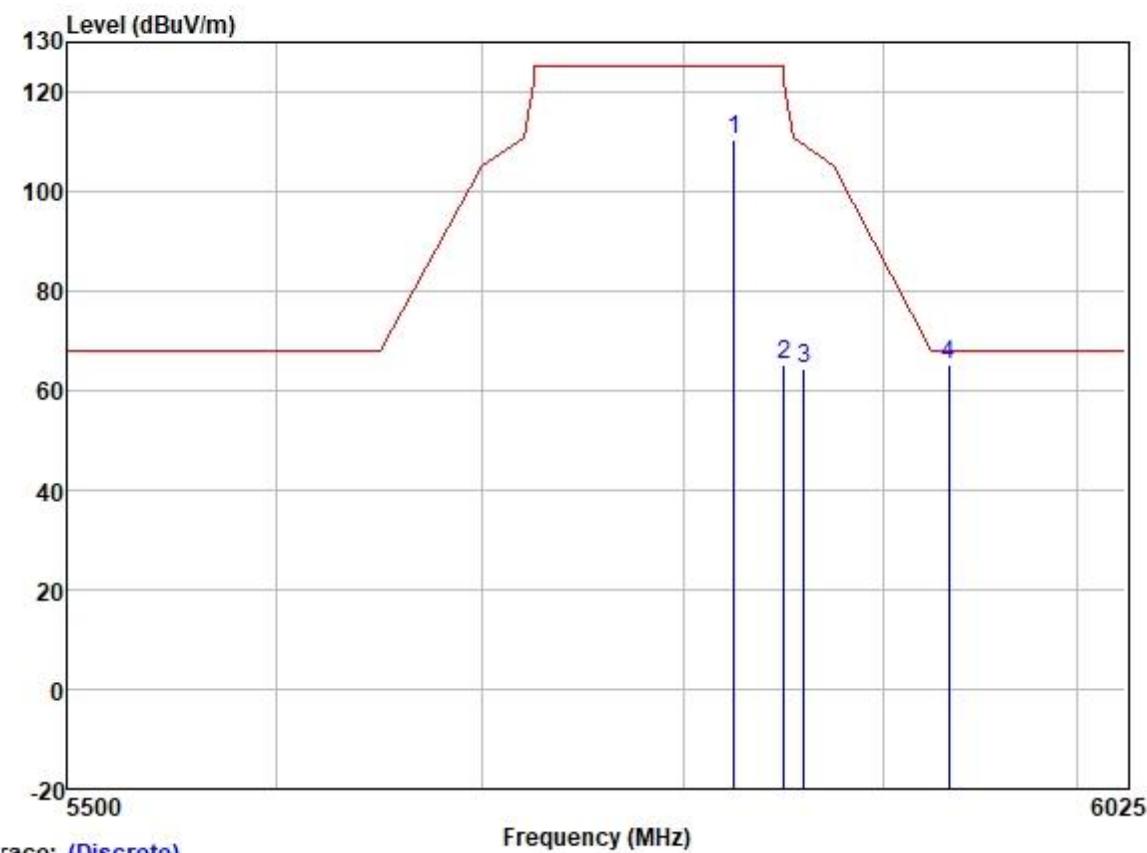
Test Mode: 24; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:165



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Test Mode: 24; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:165

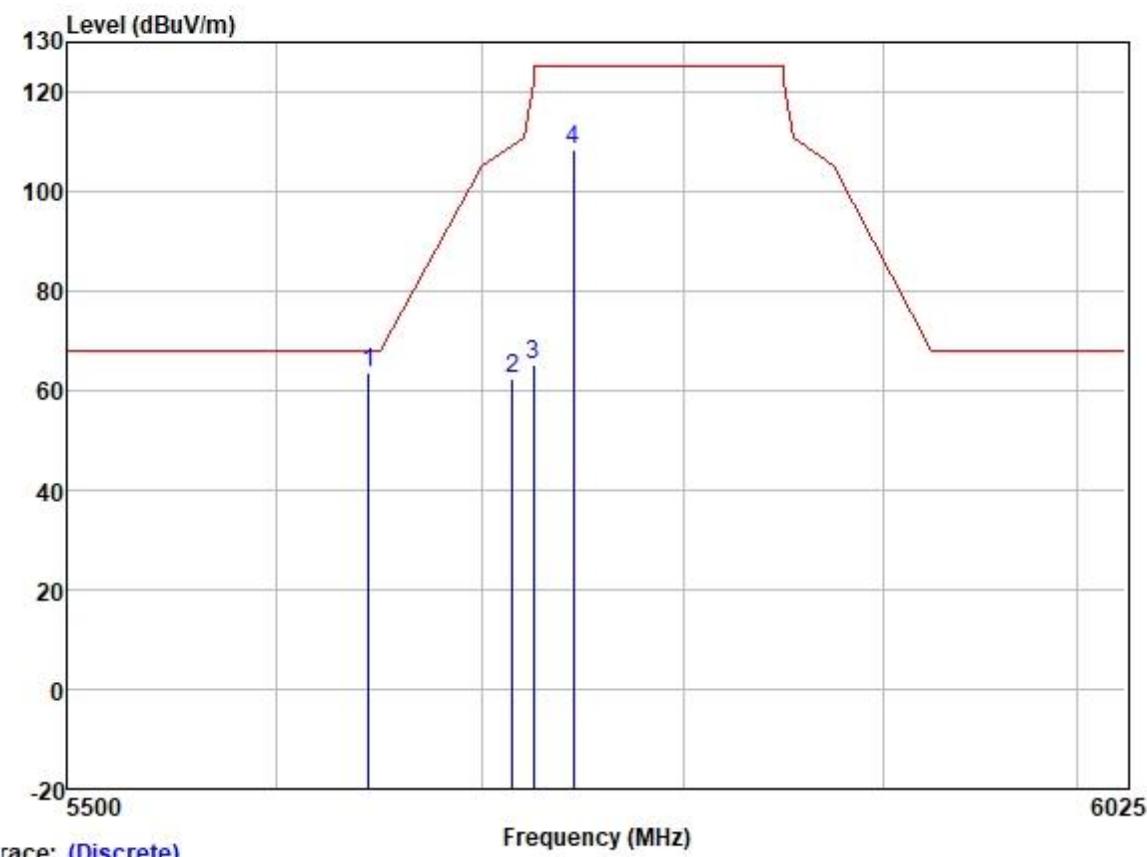


Freq	ReadAntenna		Cable		Preamp	Loss Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	5825.000	108.88	32.23	6.04	36.90	110.25	125.20	-14.95	VERTICAL			Peak	
2	5850.000	63.92	32.25	6.00	36.90	65.27	122.20	-56.93	VERTICAL			Peak	
3	5860.000	63.12	32.27	5.96	36.90	64.45	109.40	-44.95	VERTICAL			Peak	
4	5933.703	63.74	32.34	6.00	36.90	65.18	68.20	-3.02	VERTICAL			Peak	

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Test Mode: 24; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

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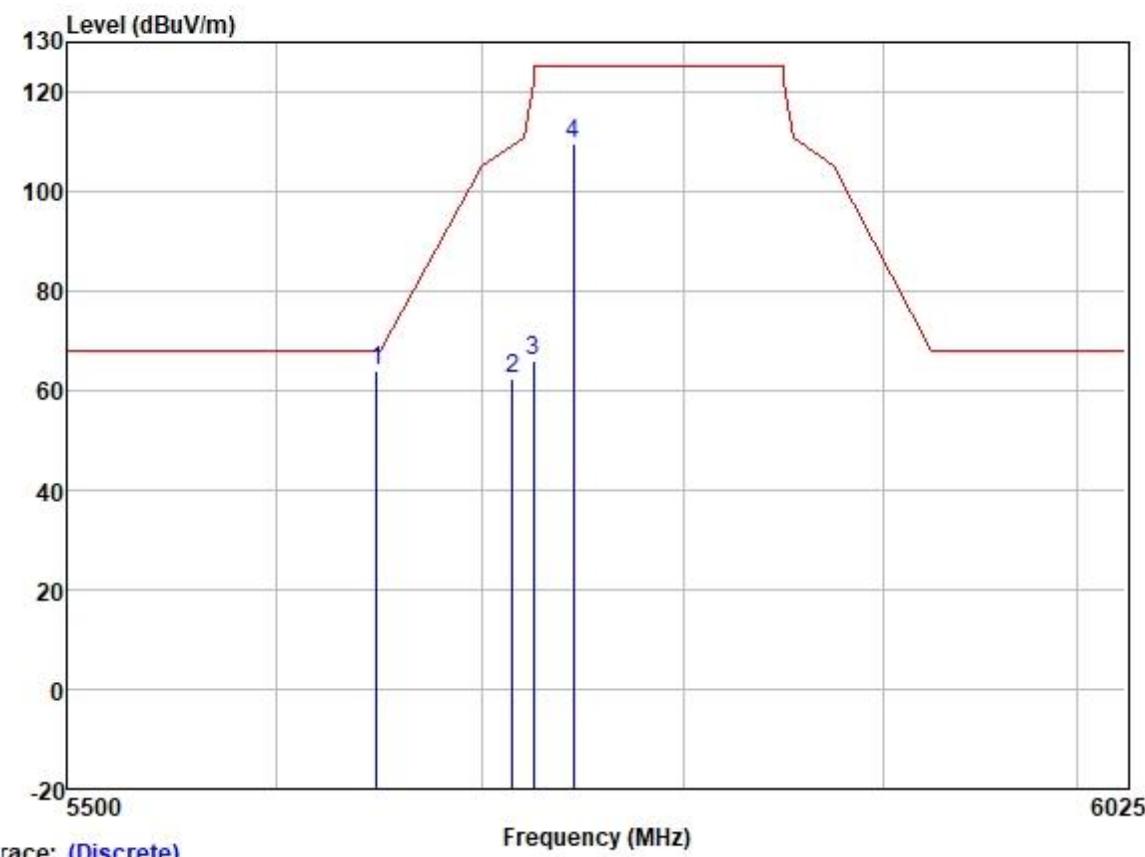
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Test Mode: 24; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



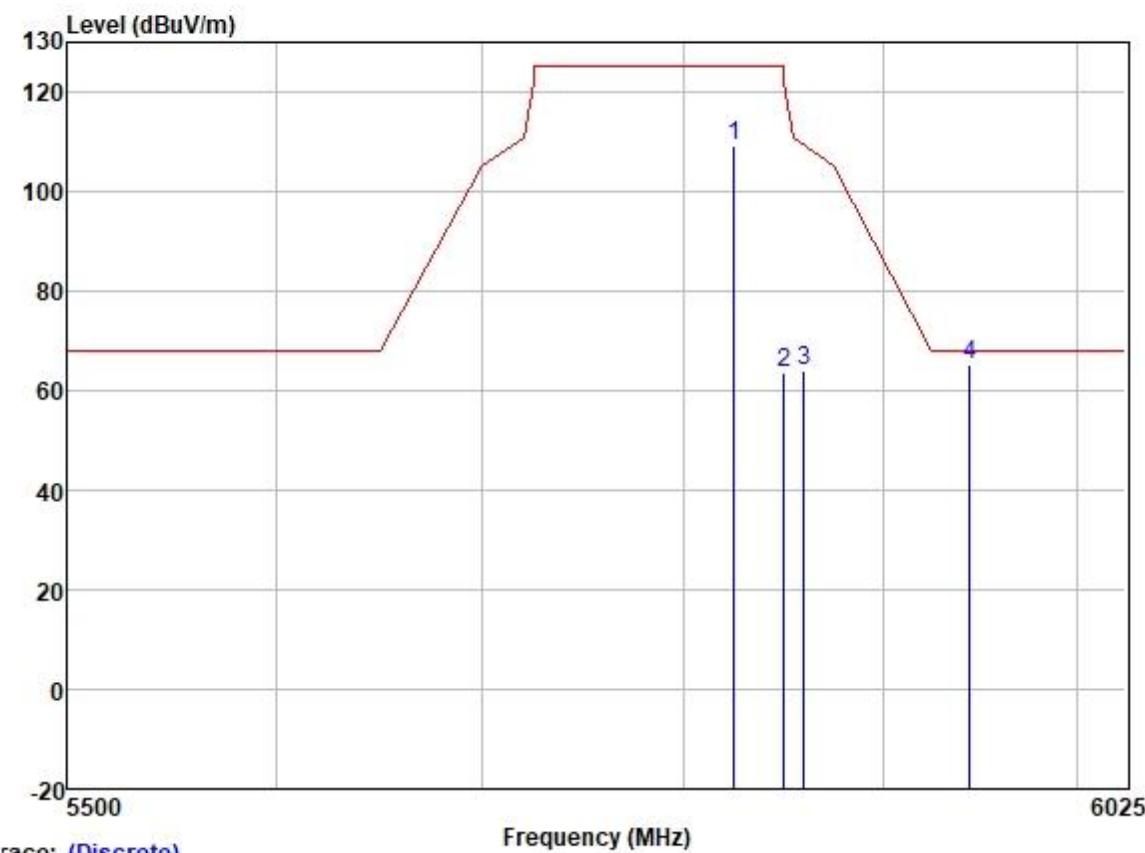
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB		
1	5648.581	62.41	31.95	6.35	36.89	63.82	68.20	-4.38	VERTICAL	Peak	
2	5715.000	60.99	32.04	6.33	36.89	62.47	109.40	-46.93	VERTICAL	Peak	
3	5725.000	64.44	32.07	6.25	36.89	65.87	122.20	-56.33	VERTICAL	Peak	
4	5745.000	108.24	32.10	6.20	36.89	109.65	125.20	-15.55	VERTICAL	Peak	

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Test Mode: 24; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:165



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	5825.000	108.00	32.23	6.04	36.90	109.37	125.20	-15.83	HORIZONTAL	Peak
2	5850.000	62.36	32.25	6.00	36.90	63.71	122.20	-58.49	HORIZONTAL	Peak
3	5860.000	62.53	32.27	5.96	36.90	63.86	109.40	-45.54	HORIZONTAL	Peak
4	5944.215	63.76	32.36	6.05	36.90	65.27	68.20	-2.93	HORIZONTAL	Peak

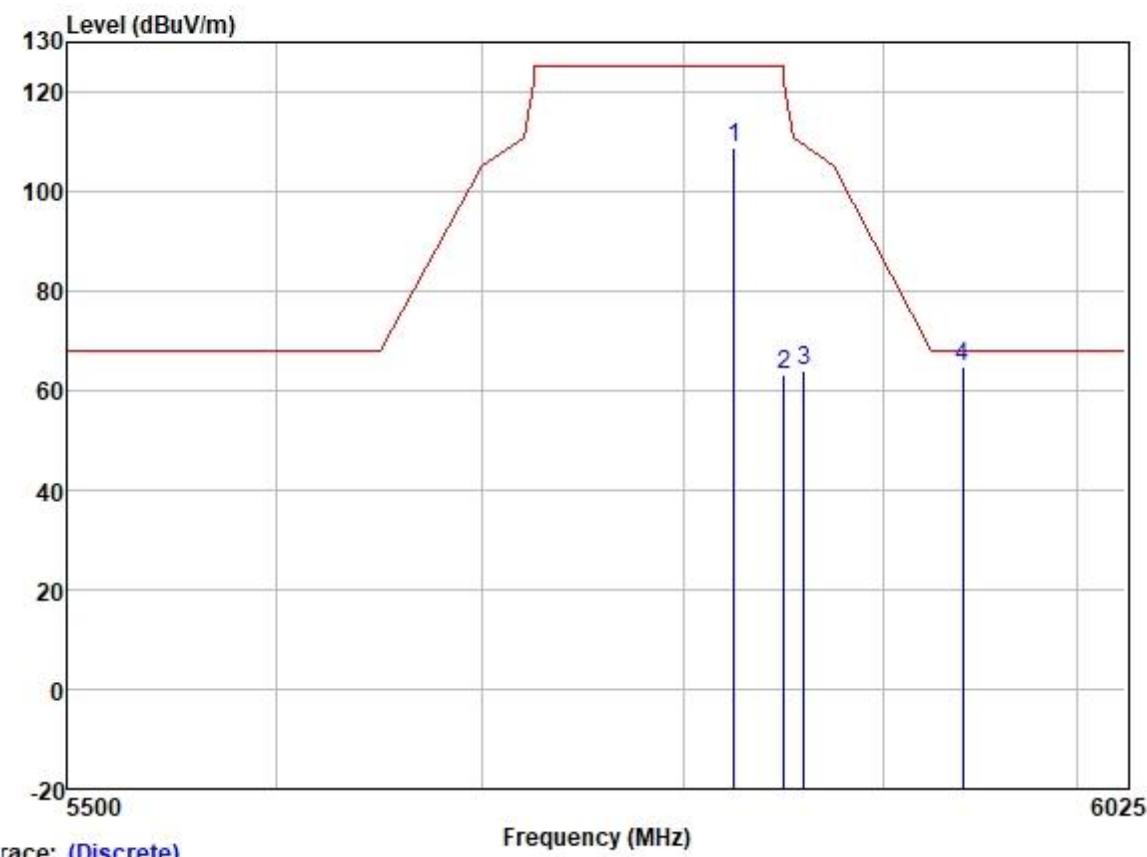
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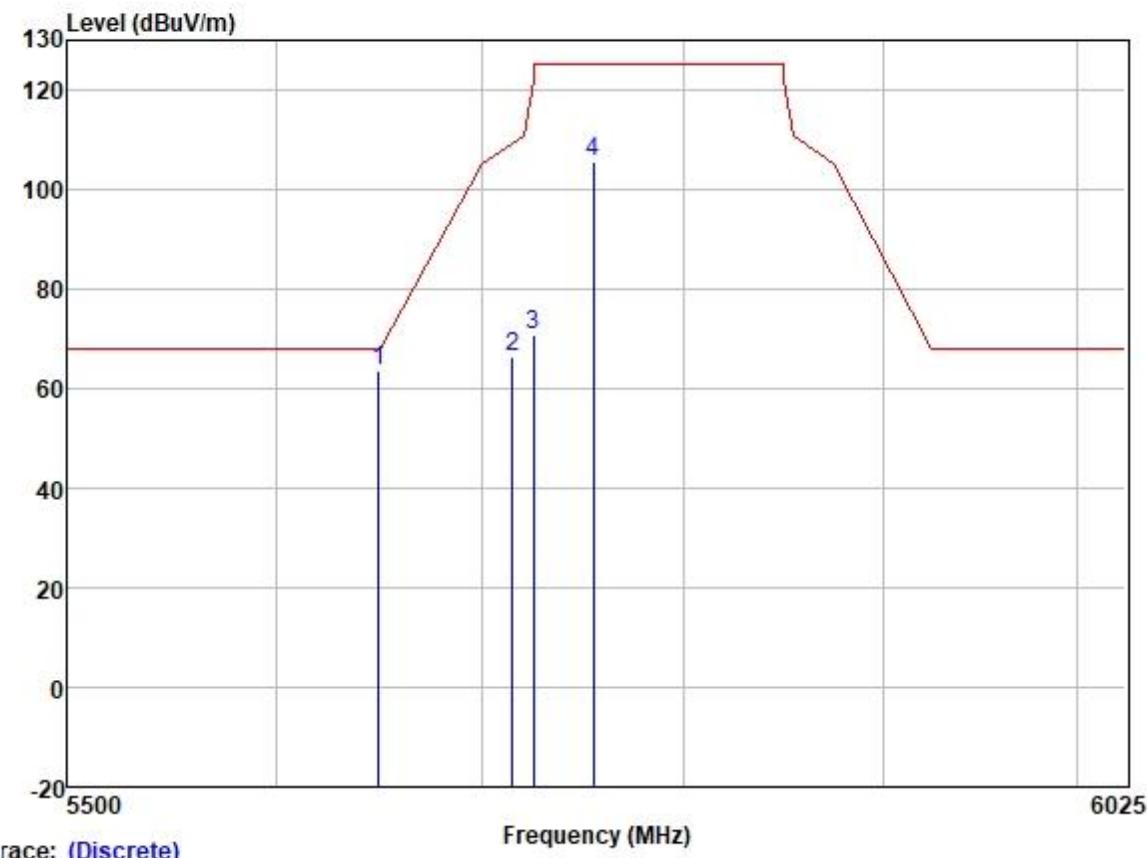
Test Mode: 24; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:165



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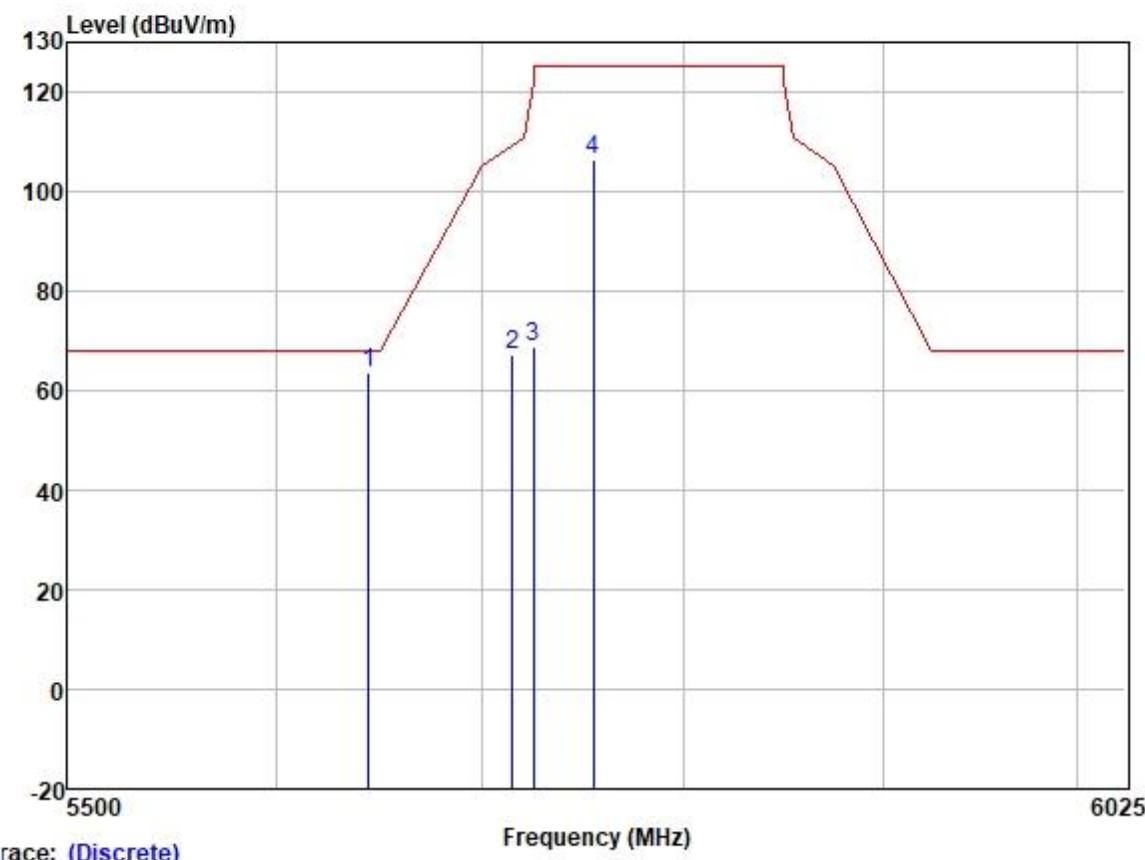
Test Mode: 24; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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Test Mode: 24; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

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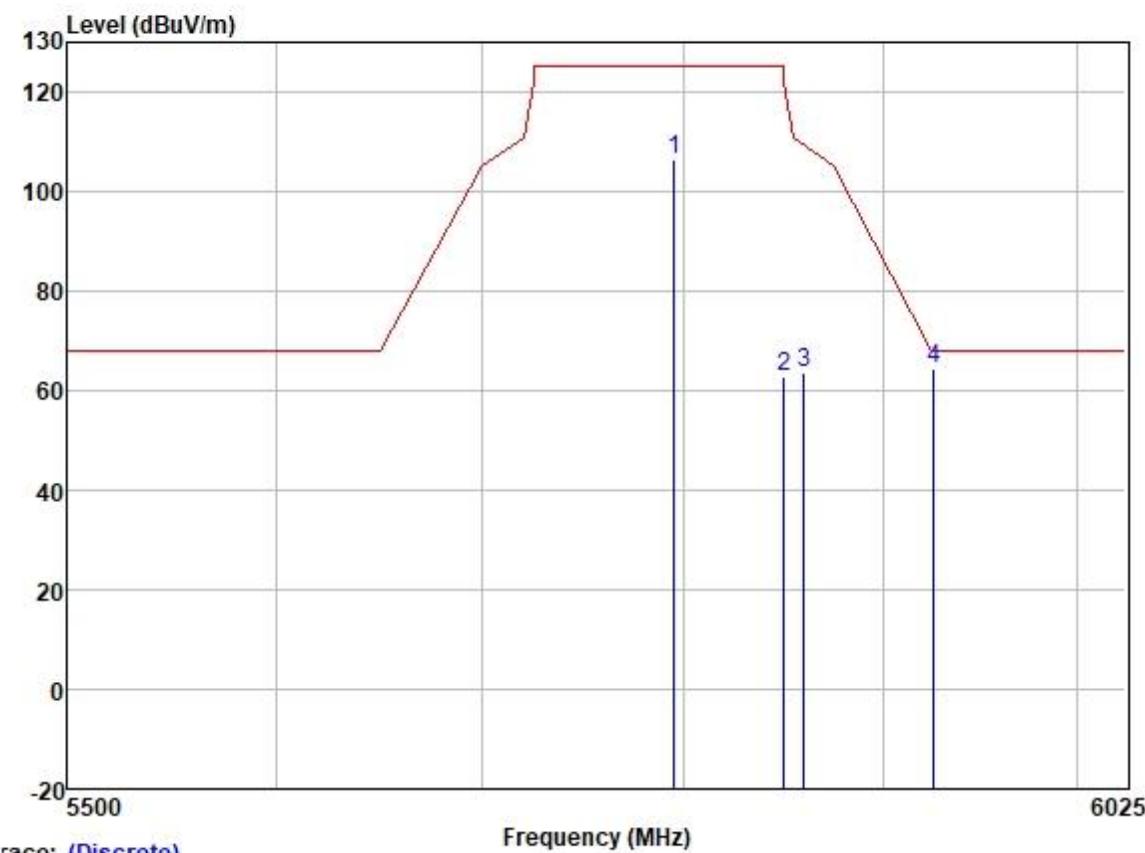
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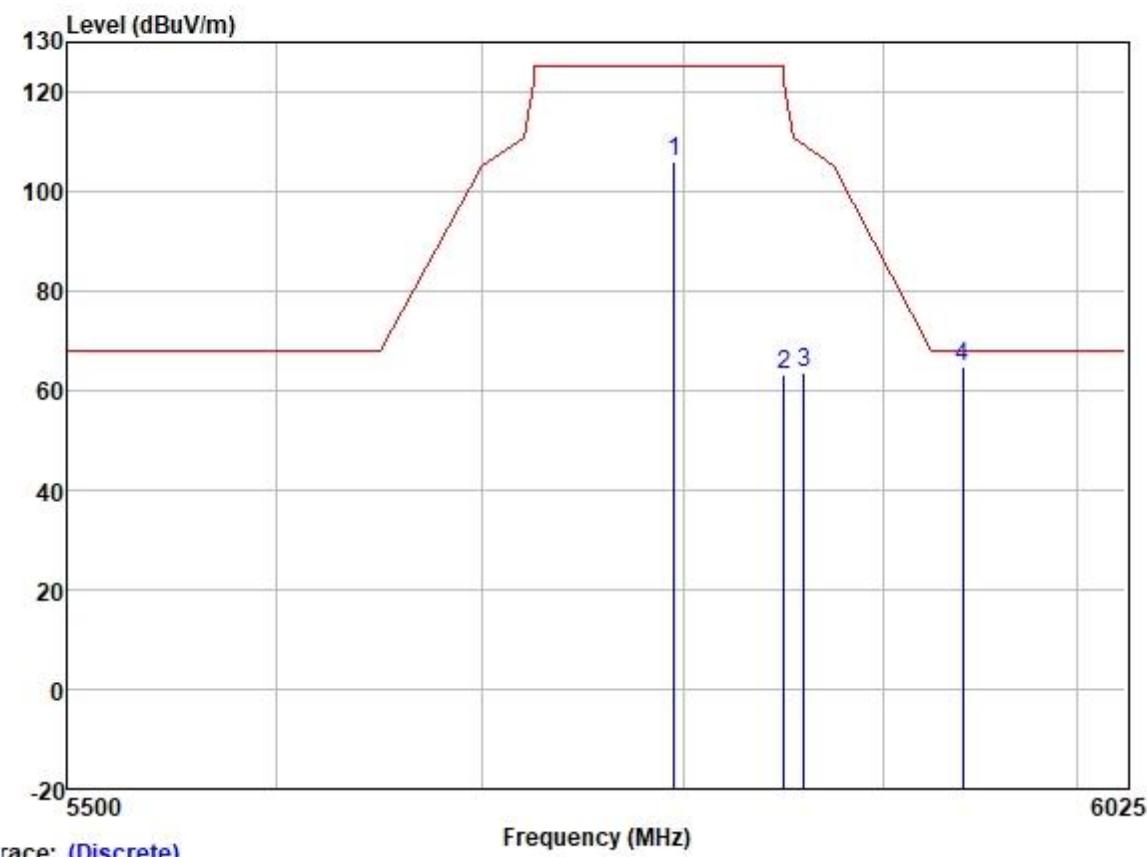
Test Mode: 24; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:159



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Test Mode: 24; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:159

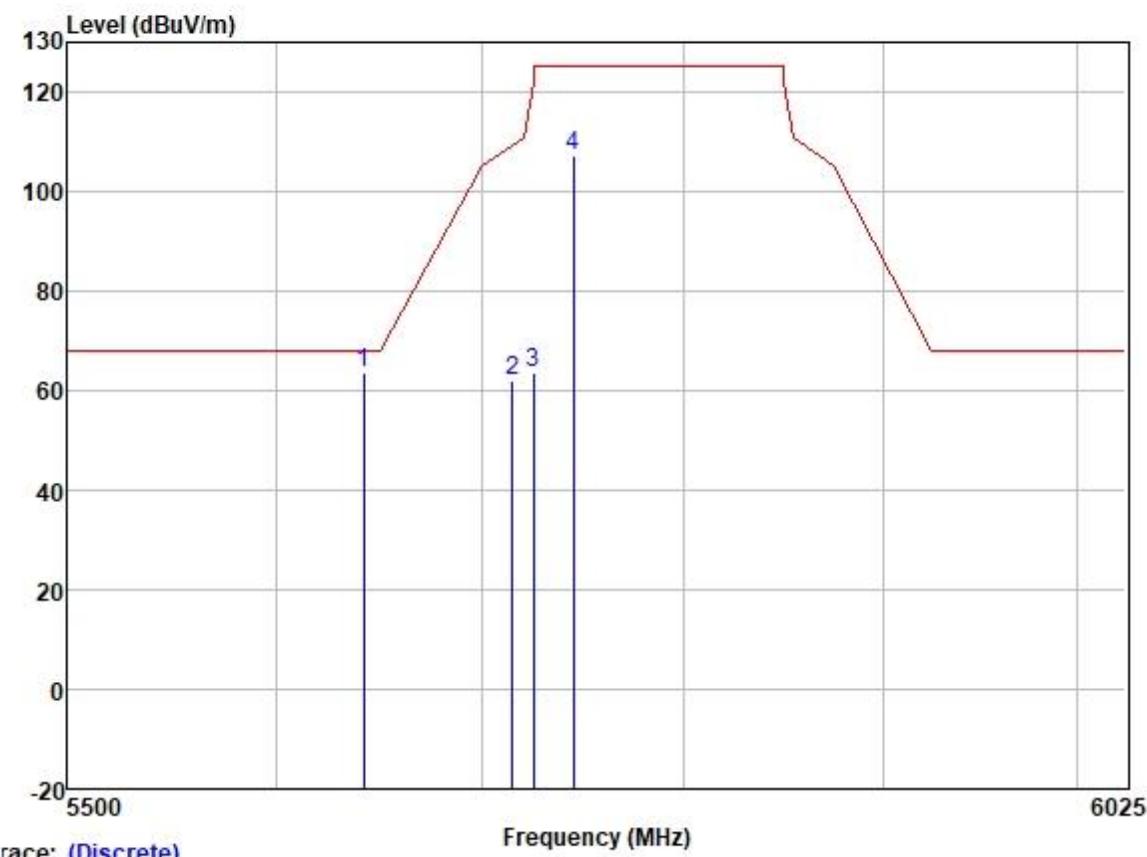


Race:	Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	dBuV/m				
	MHz	dBuV	dB/m	dB	dB	Level	dBuV/m	dBuV/m	dB		
1	5795.000	104.56	32.19	6.10	36.89	105.96	125.20	-19.24	VERTICAL	Peak	
2	5850.000	61.76	32.25	6.00	36.90	63.11	122.20	-59.09	VERTICAL	Peak	
3	5860.000	62.43	32.27	5.96	36.90	63.76	109.40	-45.64	VERTICAL	Peak	
4	5940.933	63.50	32.34	6.00	36.90	64.94	68.20	-3.26	VERTICAL	Peak	

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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



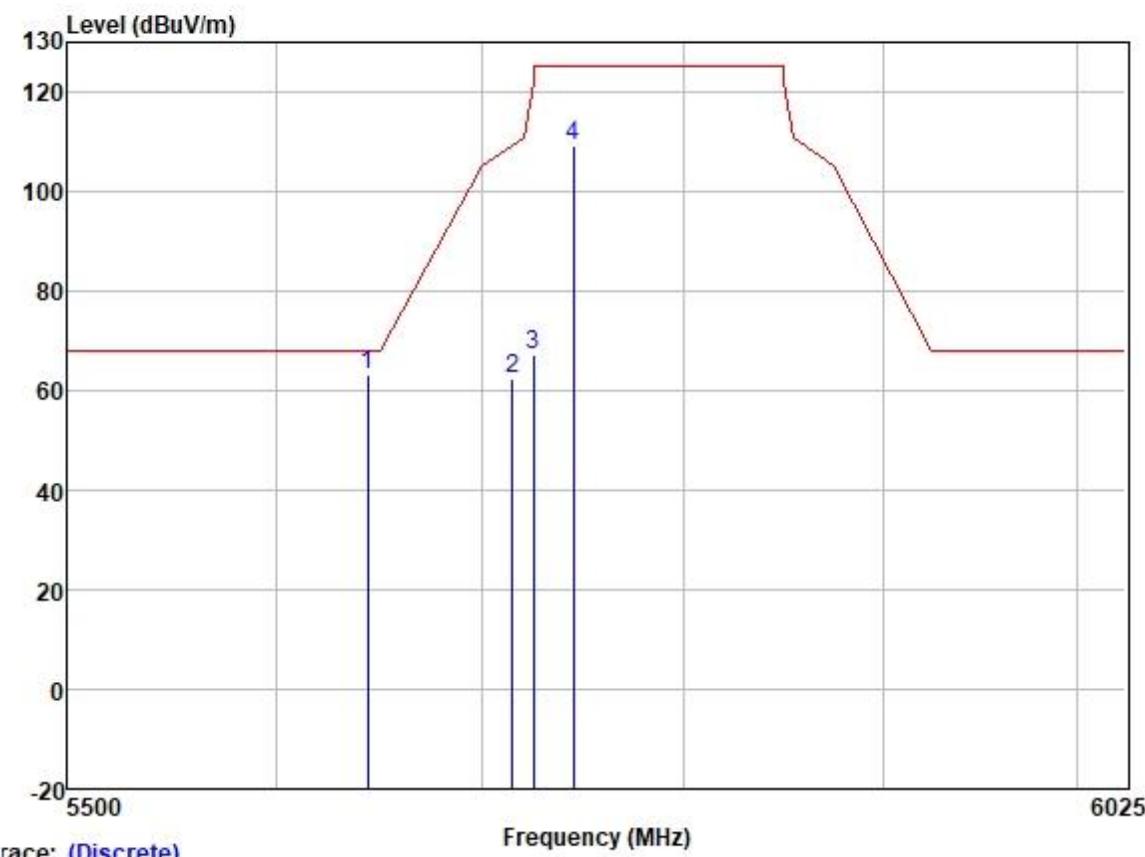
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	5641.937	62.00	31.95	6.35	36.89	63.41	68.20	-4.79	HORIZONTAL	Peak
2	5715.000	60.57	32.04	6.33	36.89	62.05	109.40	-47.35	HORIZONTAL	Peak
3	5725.000	62.16	32.07	6.25	36.89	63.59	122.20	-58.61	HORIZONTAL	Peak
4	5745.000	105.76	32.10	6.20	36.89	107.17	125.20	-18.03	HORIZONTAL	Peak

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Test Mode: 24; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Point	Freq	ReadAntenna		Cable		Preamp	Loss Factor	Level	Limit	Line	Over Limit	Pol/Phase	Remark
		Level	Factor	dB	dB								
	MHz	dBuV	dB/m			dBuV/m		dBuV/m		dB			
1	5643.874	61.63	31.95	6.35	36.89	63.04	68.20	-5.16	VERTICAL			Peak	
2	5715.000	61.00	32.04	6.33	36.89	62.48	109.40	-46.92	VERTICAL			Peak	
3	5725.000	65.88	32.07	6.25	36.89	67.31	122.20	-54.89	VERTICAL			Peak	
4	5745.000	107.60	32.10	6.20	36.89	109.01	125.20	-16.19	VERTICAL			Peak	

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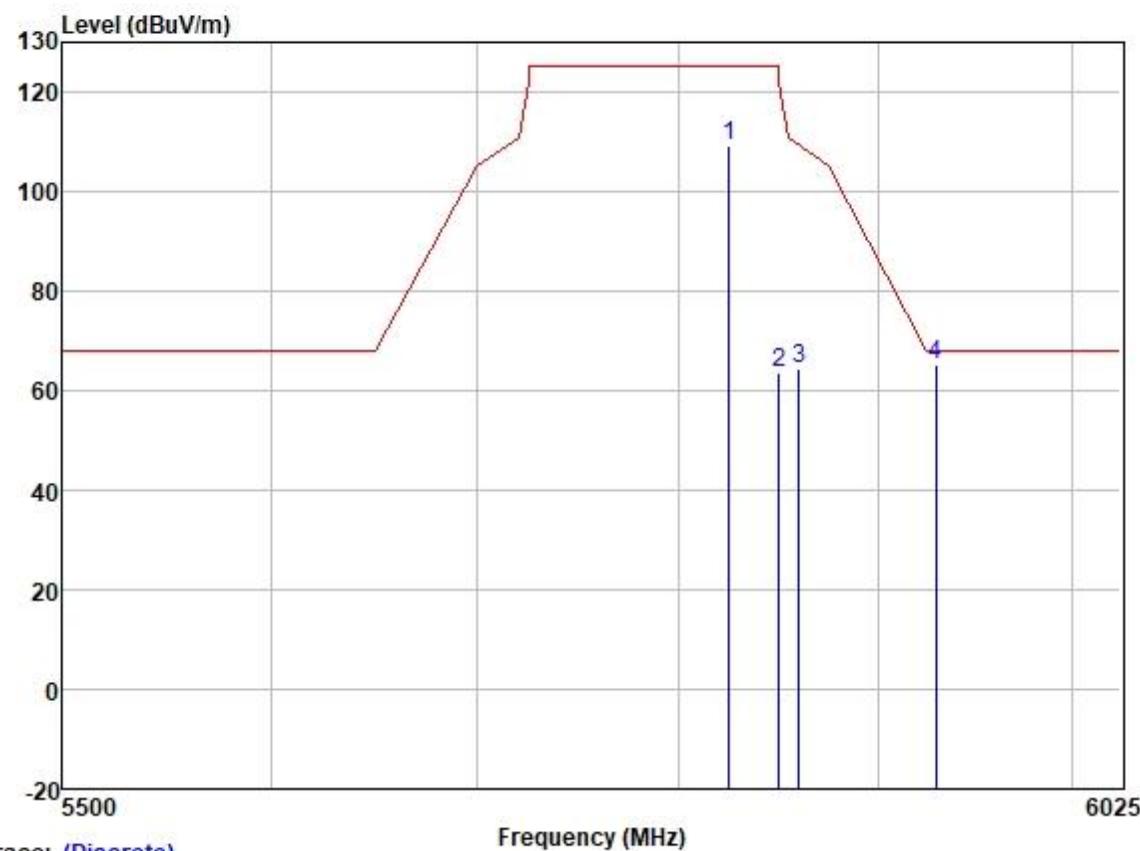
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No.198 Kezhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

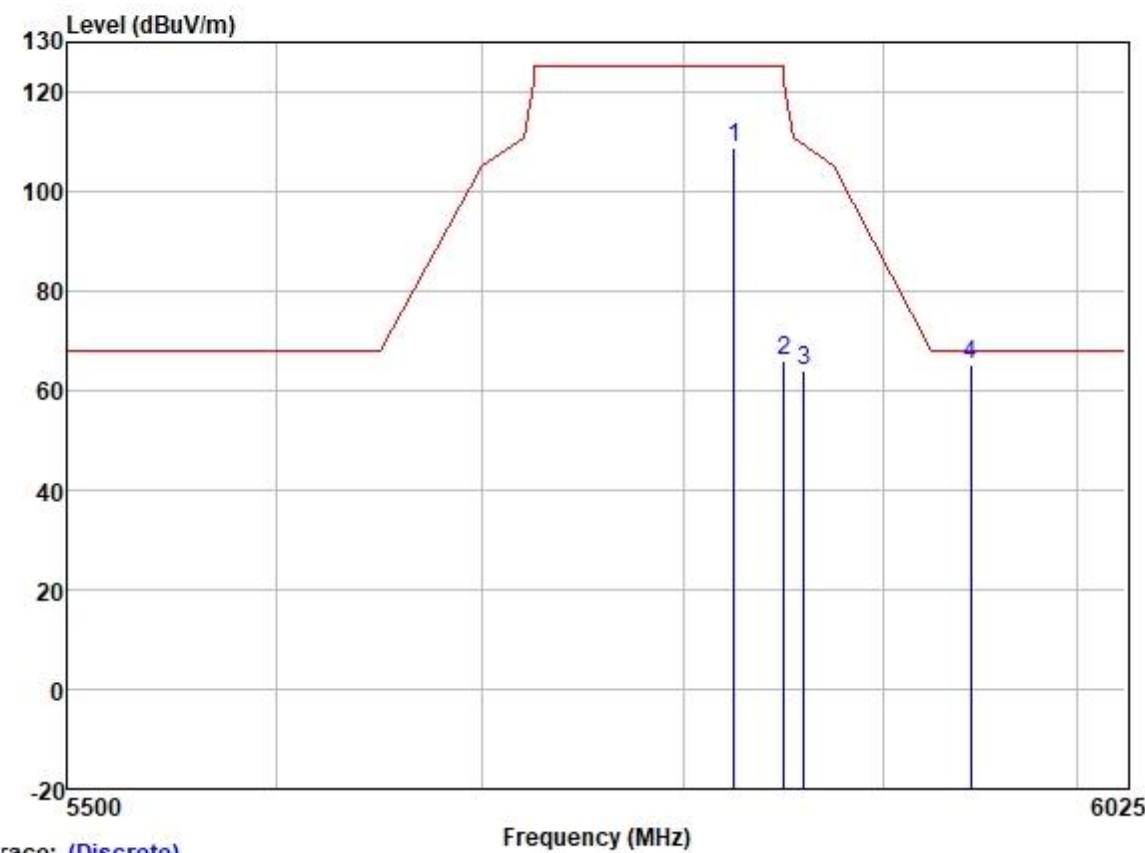
Test Mode: 24; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:165



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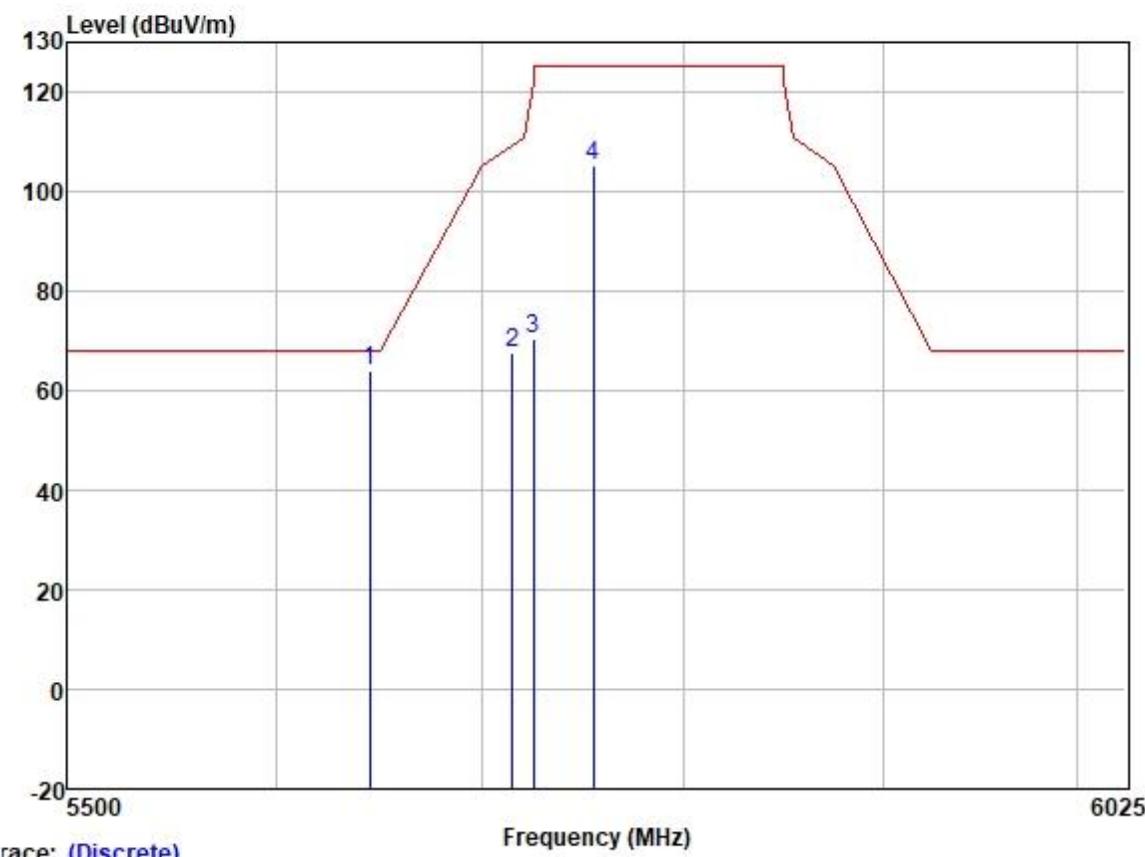
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Test Mode: 24; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:165



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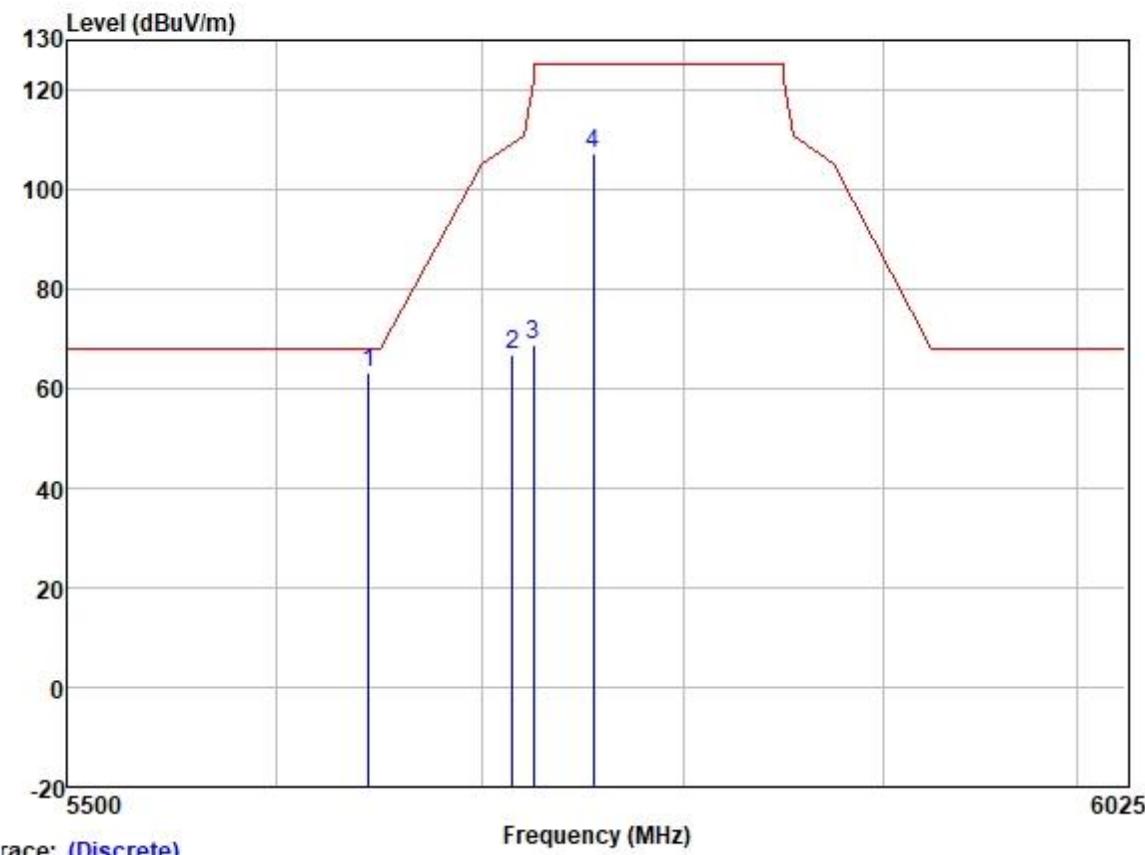
Test Mode: 24; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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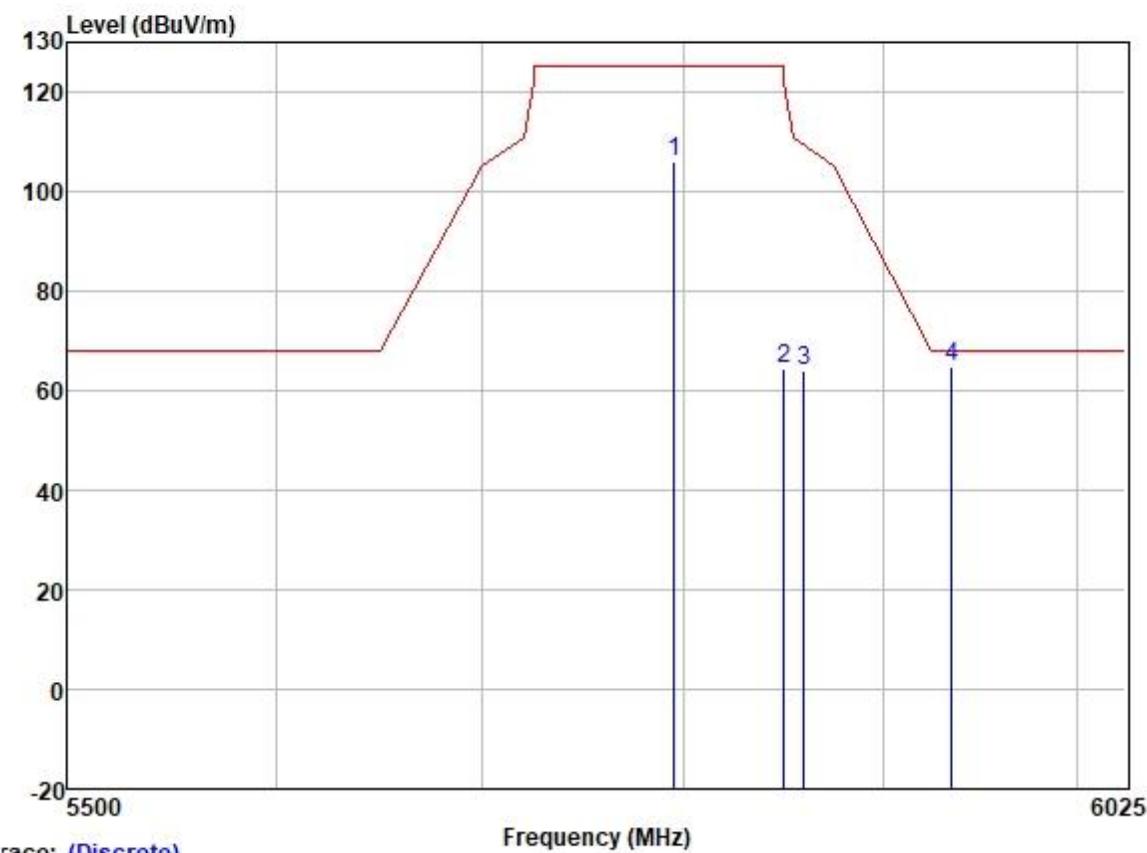
Test Mode: 24; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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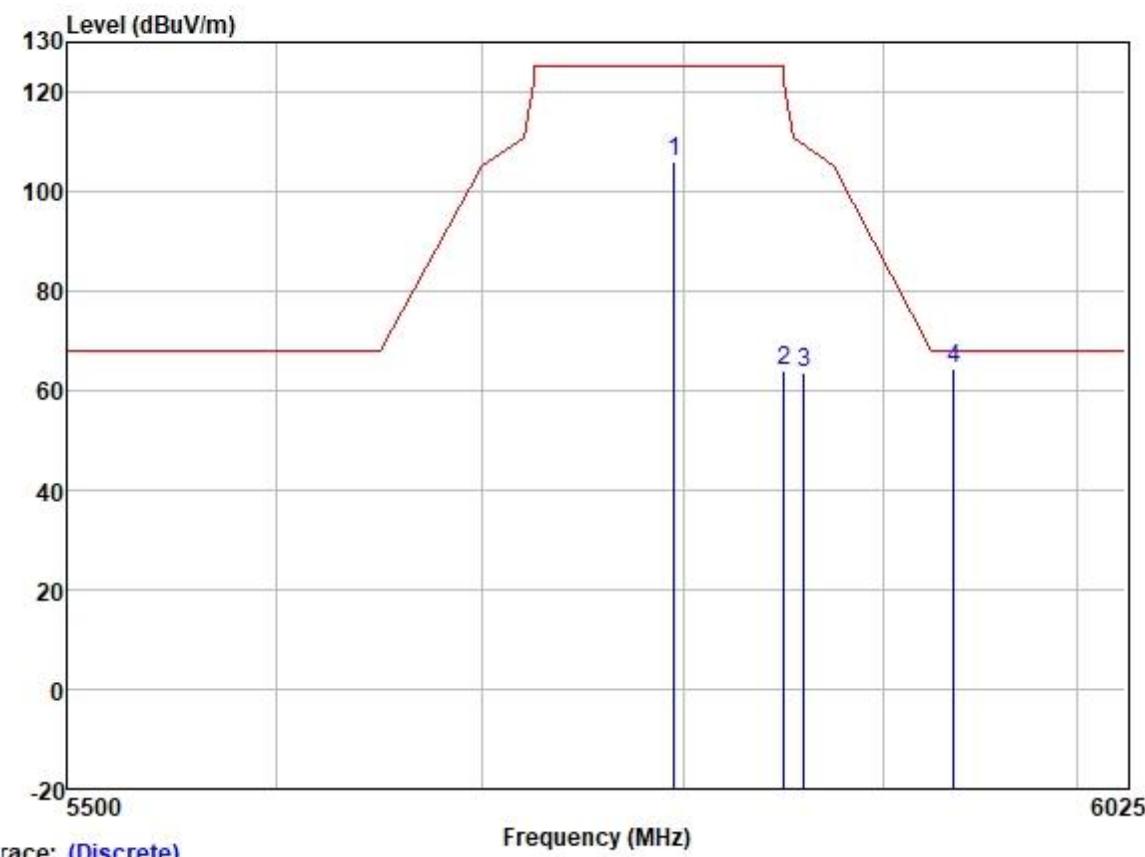
Test Mode: 24; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:159



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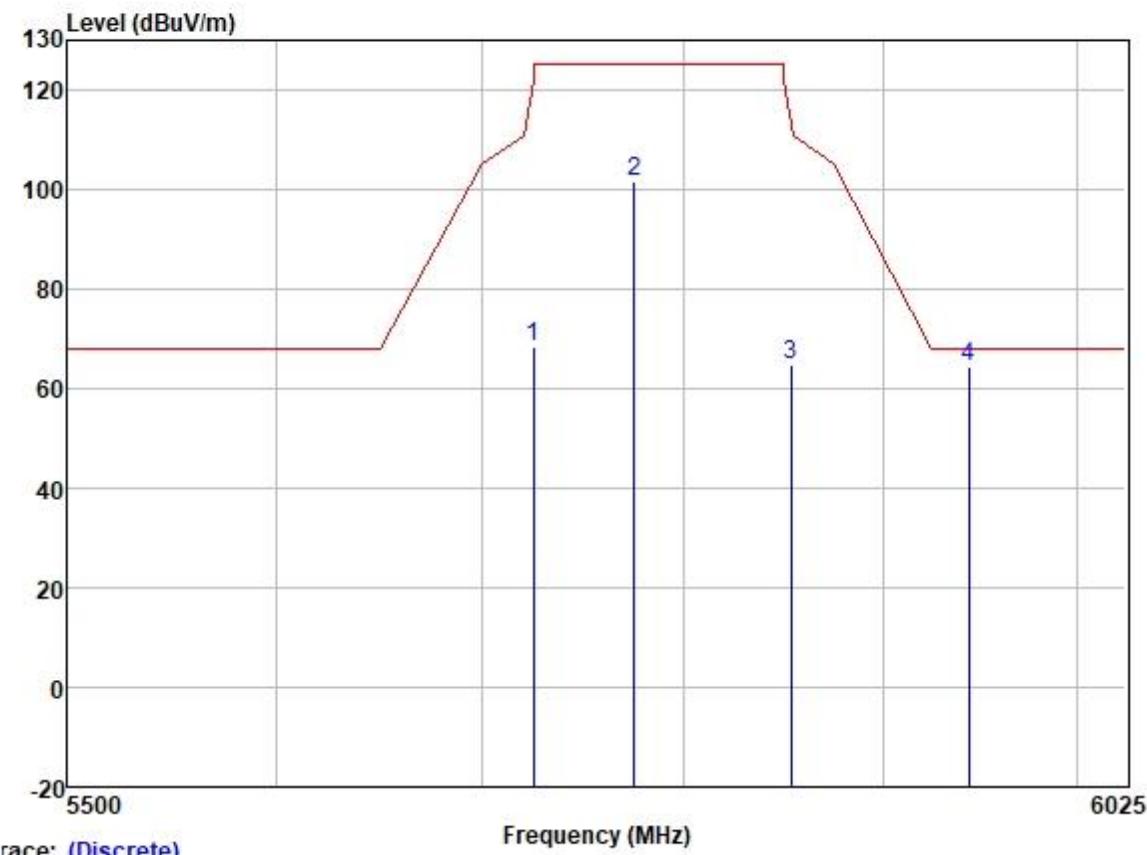
Test Mode: 24; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:159



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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	5724.993	66.81	32.07	6.25	36.89	68.24	122.18	-53.94	HORIZONTAL	Peak			
2	5775.000	100.35	32.16	6.10	36.89	101.72	125.20	-23.48	HORIZONTAL	Peak			
3	5853.657	63.63	32.25	6.00	36.90	64.98	113.86	-48.88	HORIZONTAL	Peak			
4	5944.061	62.78	32.36	6.05	36.90	64.29	68.20	-3.91	HORIZONTAL	Peak			

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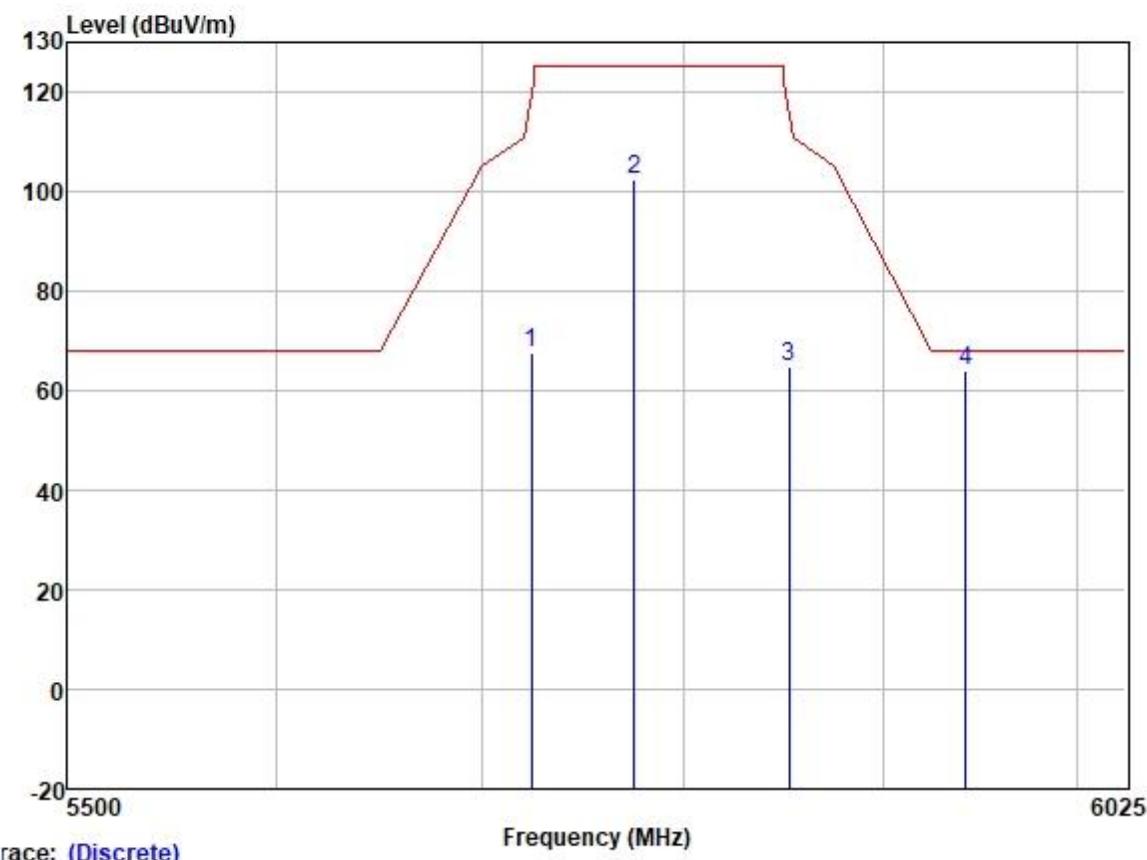
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Test Mode: 24; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	Level	dBuV/m	dB			
1 5724.390	66.25	32.07	6.25	36.89	67.68	120.81	-53.13	VERTICAL	Peak	
2 5775.000	100.90	32.16	6.10	36.89	102.27	125.20	-22.93	VERTICAL	Peak	
3 5852.424	63.59	32.25	6.00	36.90	64.94	116.67	-51.73	VERTICAL	Peak	
4 5942.183	62.59	32.36	6.05	36.90	64.10	68.20	-4.10	VERTICAL	Peak	

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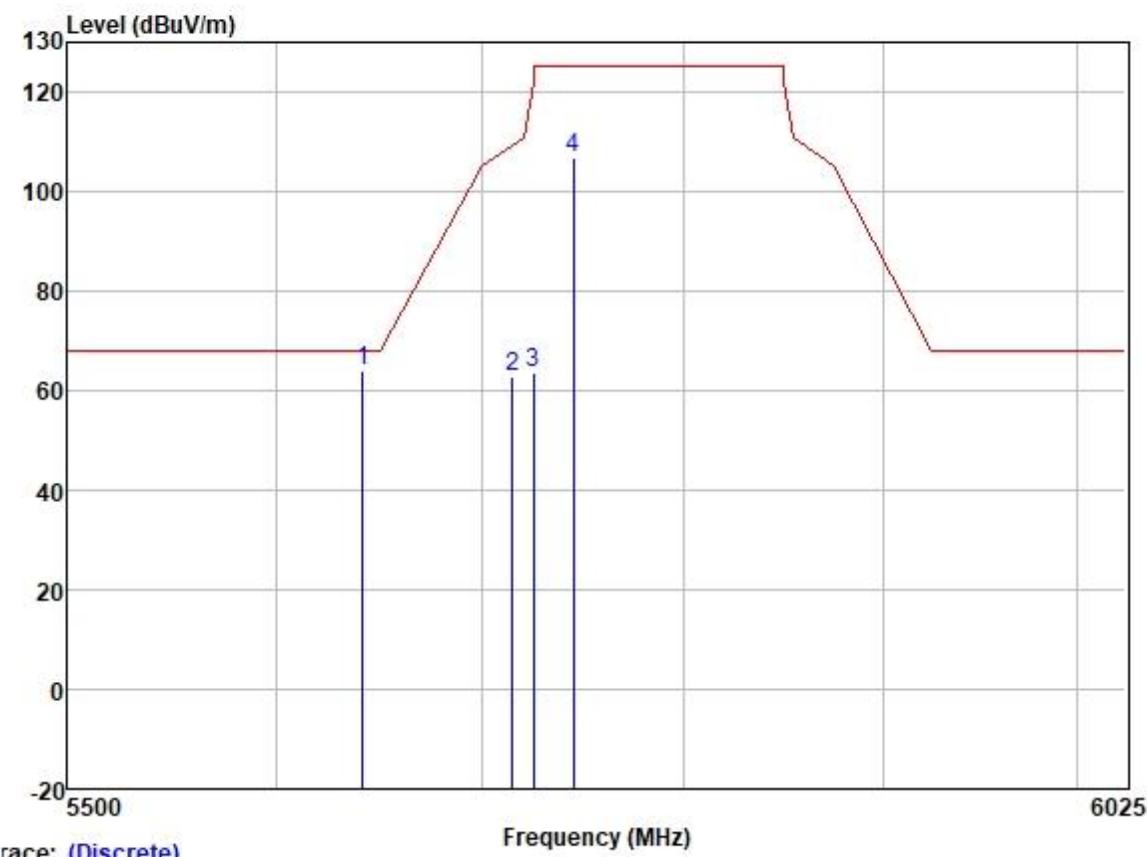
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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low

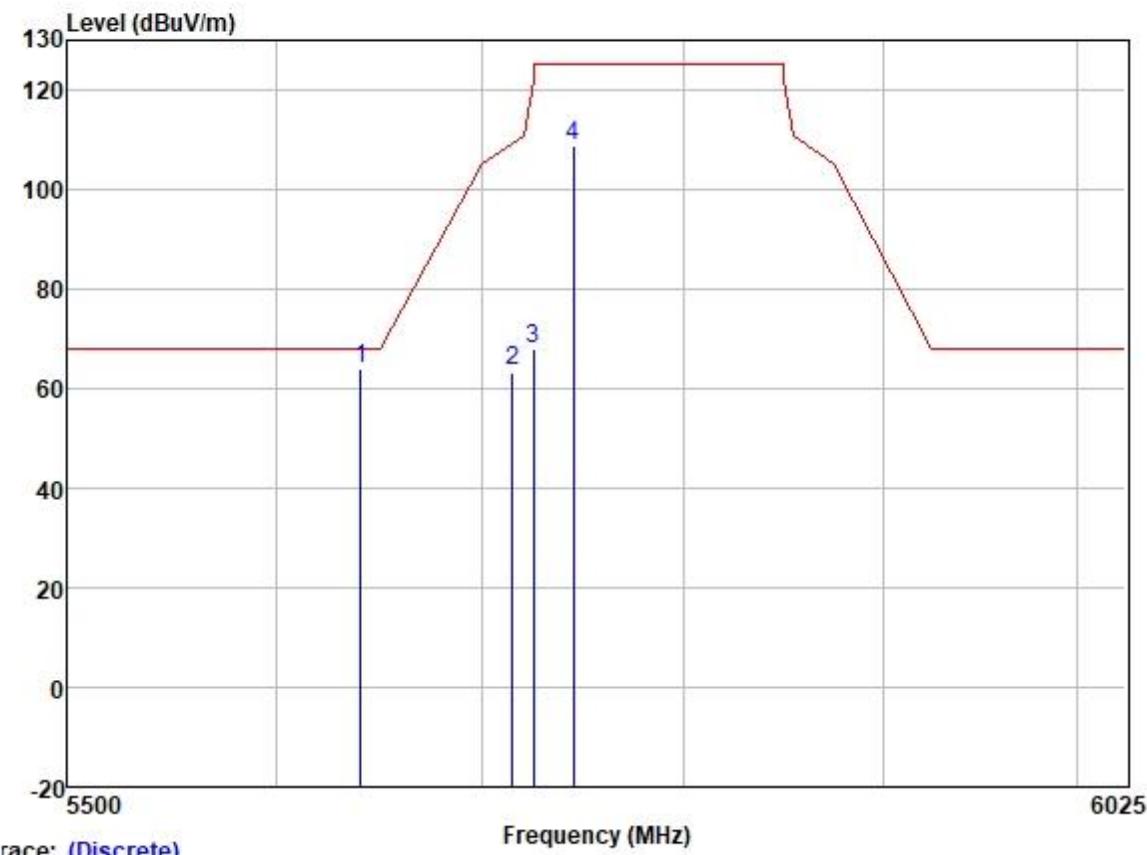


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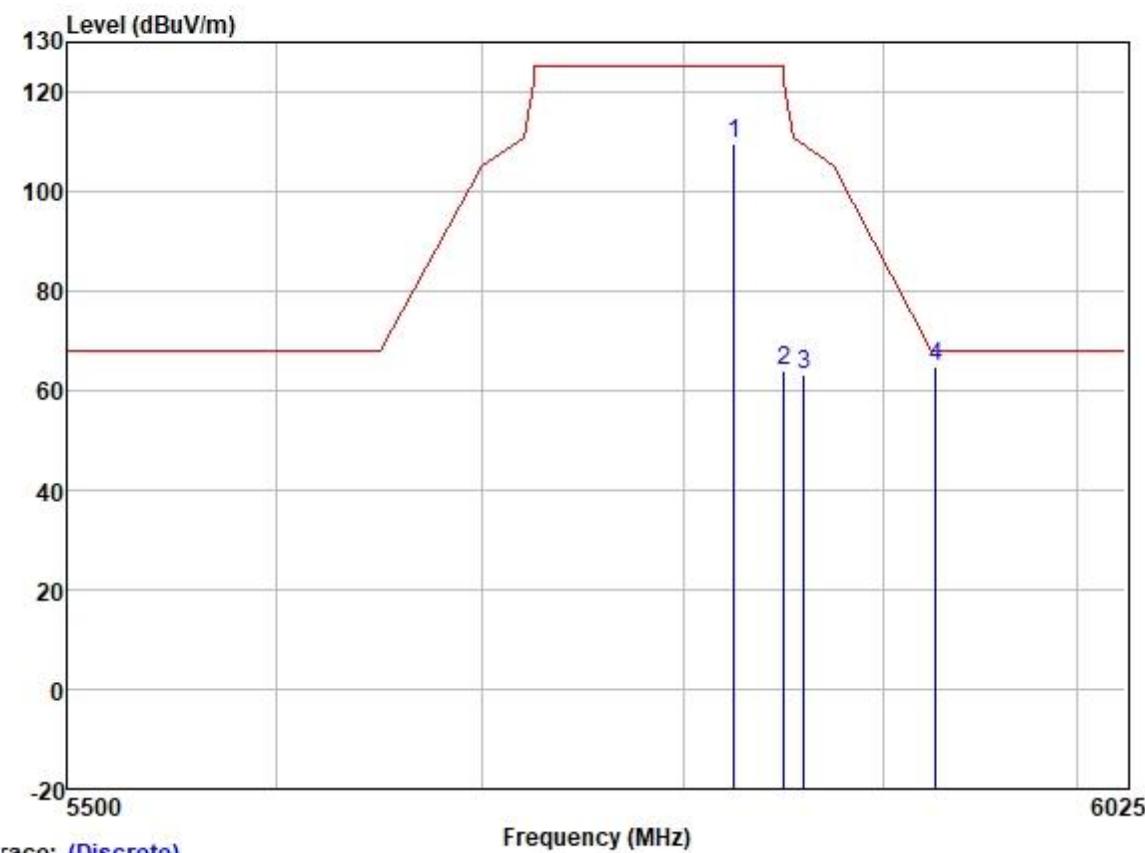
Test Mode: 24; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:165



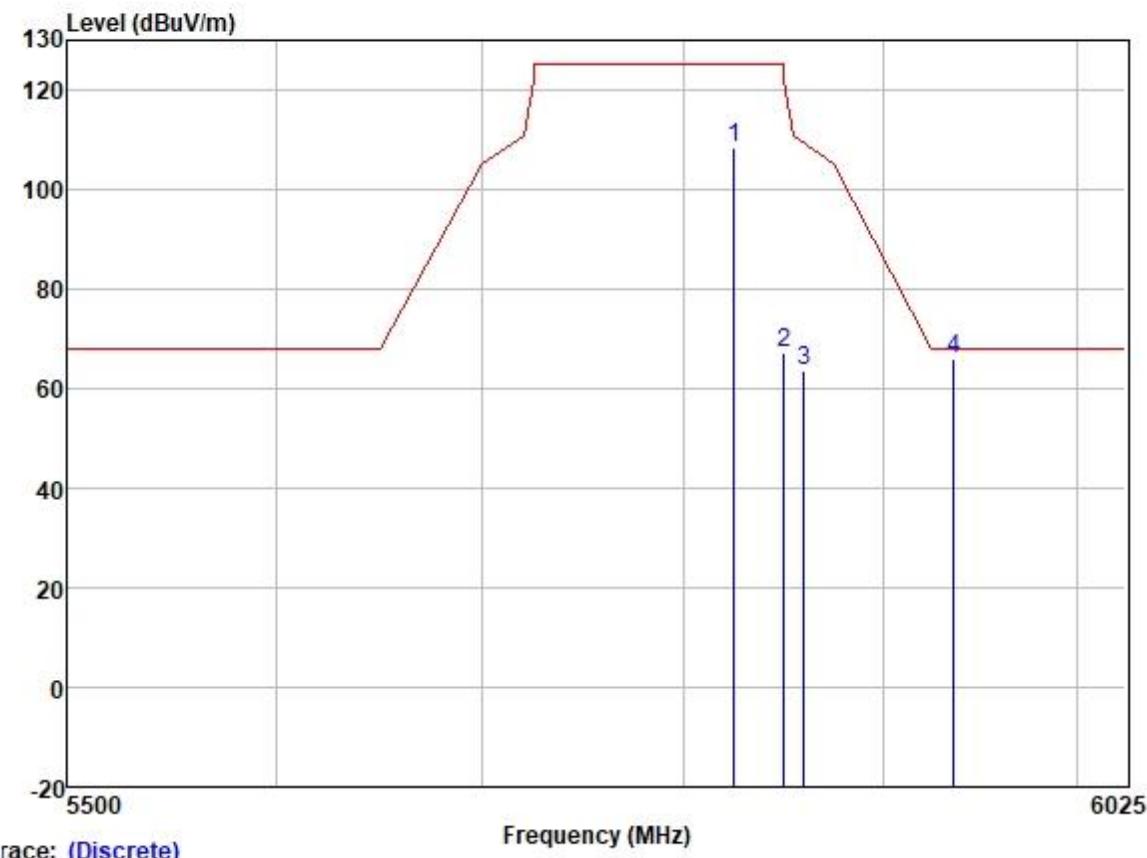
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	5825.000	108.29	32.23	6.04	36.90	109.66	125.20	-15.54	HORIZONTAL	Peak
2	5850.000	62.48	32.25	6.00	36.90	63.83	122.20	-58.37	HORIZONTAL	Peak
3	5860.000	61.83	32.27	5.96	36.90	63.16	109.40	-46.24	HORIZONTAL	Peak
4	5926.966	63.48	32.34	6.00	36.90	64.92	68.20	-3.28	HORIZONTAL	Peak

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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:165

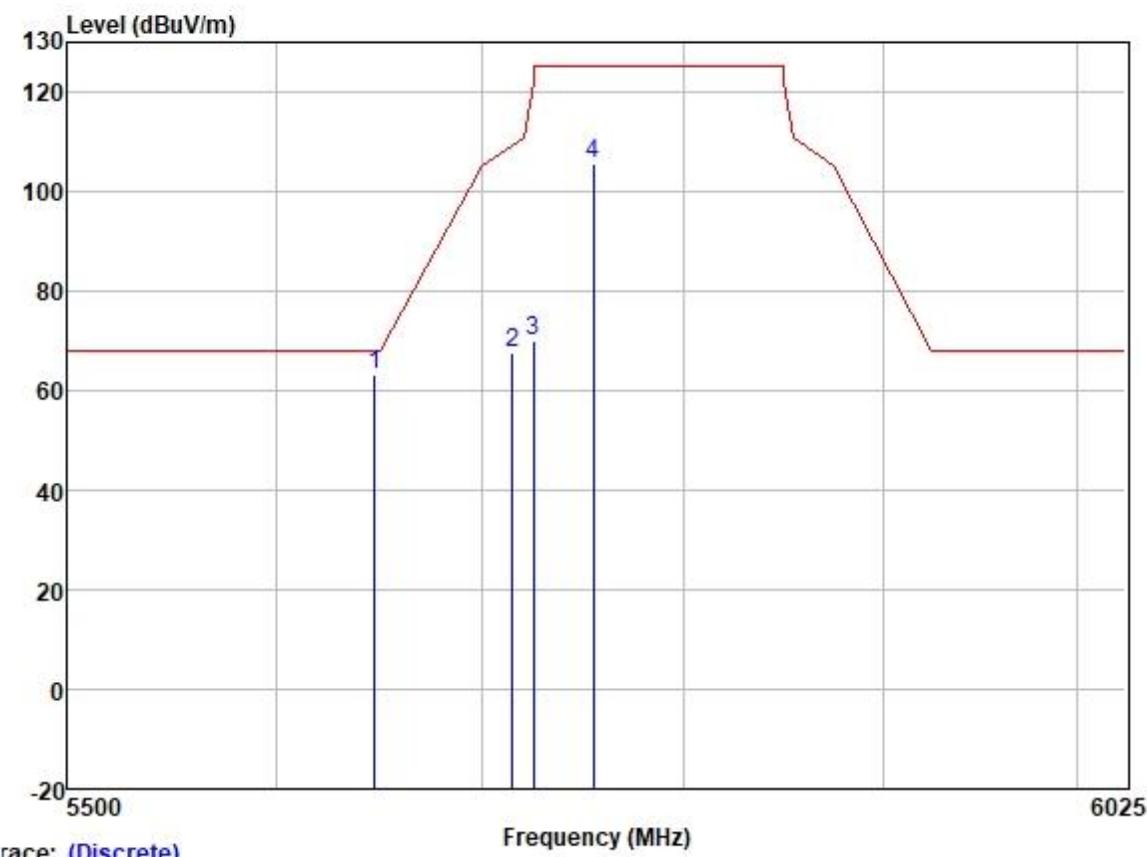


Race:	Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	dBuV/m				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5825.000	107.08	32.23	6.04	36.90	108.45	125.20	-16.75	VERTICAL	Peak	
2	5850.000	65.74	32.25	6.00	36.90	67.09	122.20	-55.11	VERTICAL	Peak	
3	5860.000	62.33	32.27	5.96	36.90	63.66	109.40	-45.74	VERTICAL	Peak	
4	5936.525	64.54	32.34	6.00	36.90	65.98	68.20	-2.22	VERTICAL	Peak	

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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low

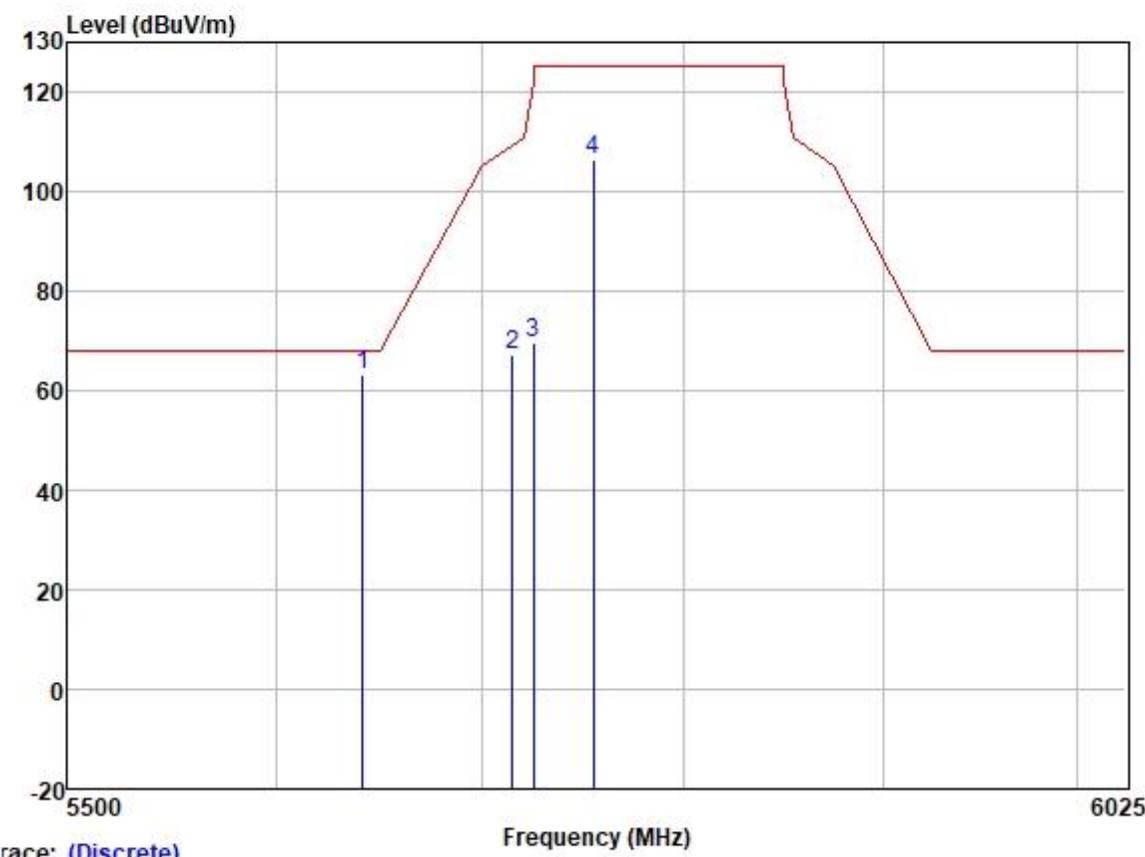


Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 5647.344	61.93	31.95	6.35	36.89	63.34	68.20	-4.86	HORIZONTAL	Peak
2 5715.000	66.18	32.04	6.33	36.89	67.66	109.40	-41.74	HORIZONTAL	Peak
3 5725.000	68.51	32.07	6.25	36.89	69.94	122.20	-52.26	HORIZONTAL	Peak
4 5755.000	104.08	32.10	6.20	36.89	105.49	125.20	-19.71	HORIZONTAL	Peak

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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



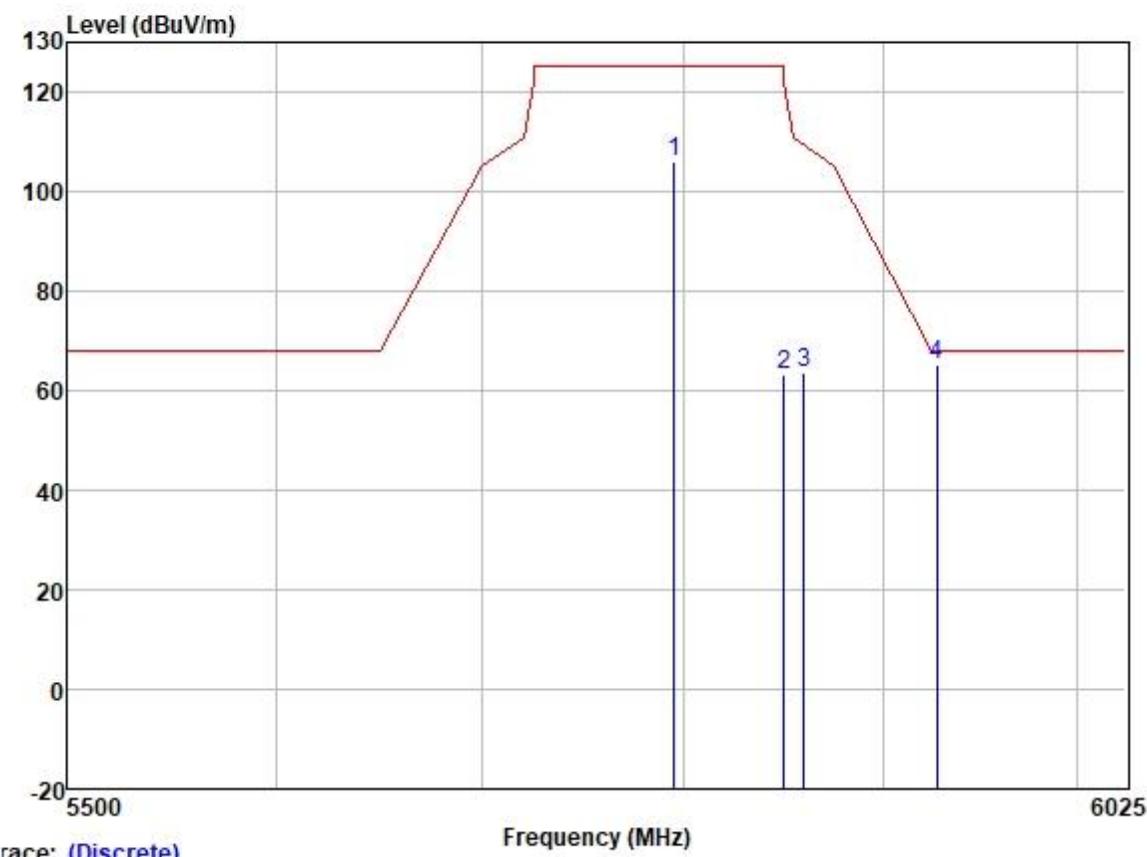
Race: (Discrete)

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 5641.376	61.77	31.95	6.35	36.89	63.18	68.20	-5.02	VERTICAL	Peak
2 5715.000	65.77	32.04	6.33	36.89	67.25	109.40	-42.15	VERTICAL	Peak
3 5725.000	68.33	32.07	6.25	36.89	69.76	122.20	-52.44	VERTICAL	Peak
4 5755.000	104.84	32.10	6.20	36.89	106.25	125.20	-18.95	VERTICAL	Peak

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Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:159



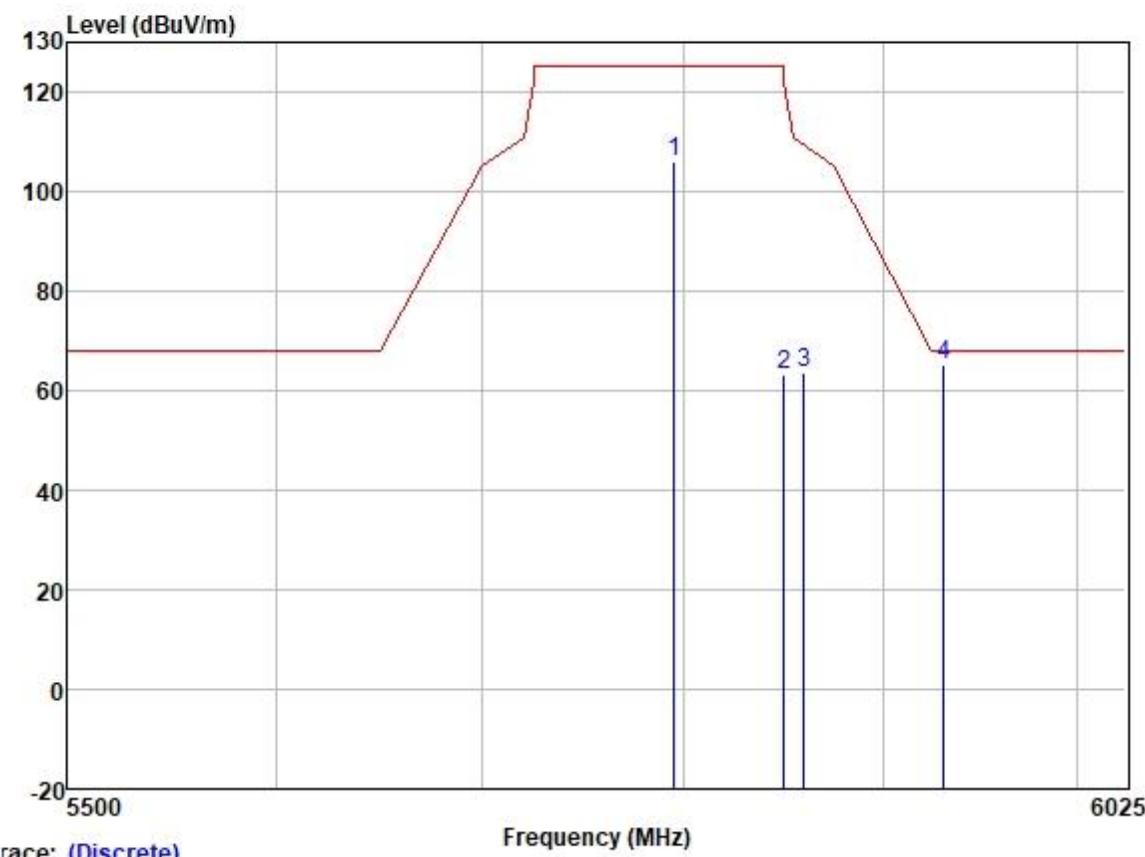
Race: (Discrete)

Point	Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	dBuV/m				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5795.000	104.56	32.19	6.10	36.89	105.96	125.20	-19.24	HORIZONTAL	Peak	
2	5850.000	61.89	32.25	6.00	36.90	63.24	122.20	-58.96	HORIZONTAL	Peak	
3	5860.000	62.23	32.27	5.96	36.90	63.56	109.40	-45.84	HORIZONTAL	Peak	
4	5927.530	63.84	32.34	6.00	36.90	65.28	68.20	-2.92	HORIZONTAL	Peak	

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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:159



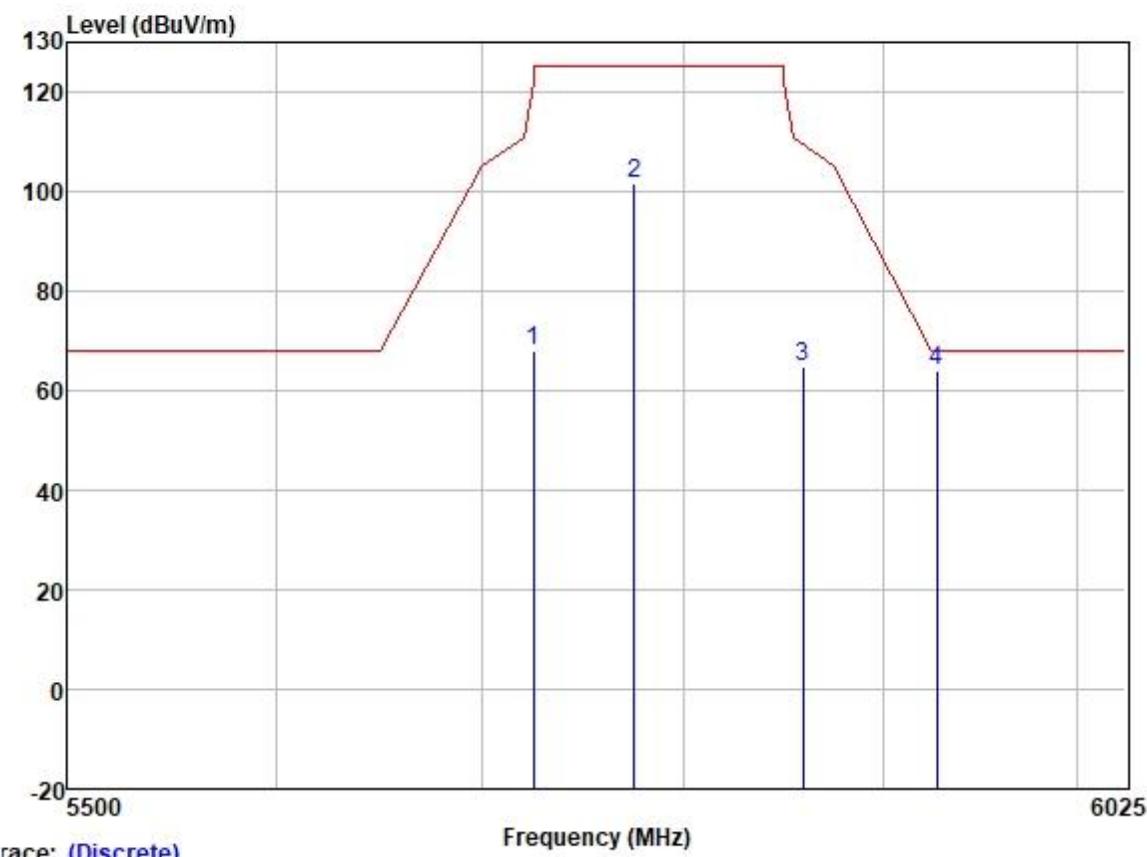
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	5795.000	104.67	32.19	6.10	36.89	106.07	125.20	-19.13	VERTICAL			Peak	
2	5850.000	61.73	32.25	6.00	36.90	63.08	122.20	-59.12	VERTICAL			Peak	
3	5860.000	62.23	32.27	5.96	36.90	63.56	109.40	-45.84	VERTICAL			Peak	
4	5930.979	63.91	32.34	6.00	36.90	65.35	68.20	-2.85	VERTICAL			Peak	

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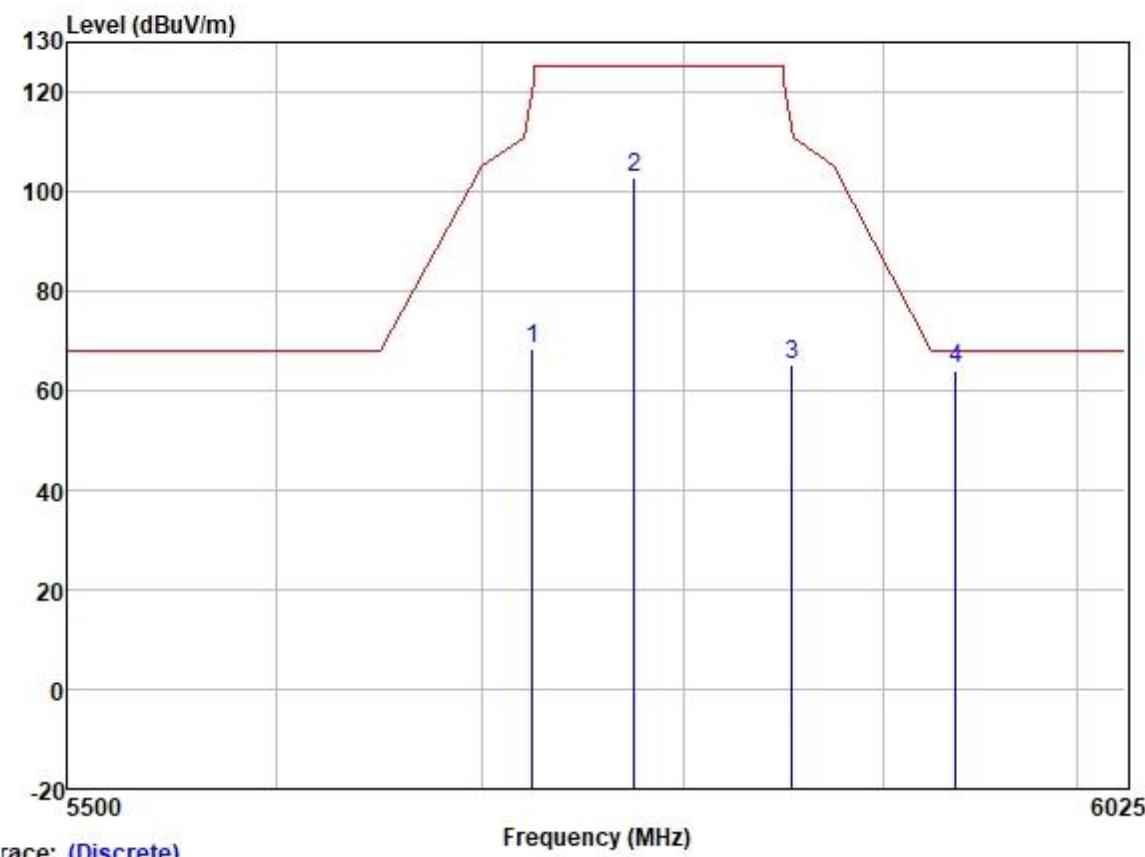
Test Mode: 24; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



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Test Mode: 24; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m				
1	5724.691	66.81	32.07	6.25	36.89	68.24	121.50	-53.26	VERTICAL	Peak
2	5775.000	101.49	32.16	6.10	36.89	102.86	125.20	-22.34	VERTICAL	Peak
3	5853.965	63.69	32.25	6.00	36.90	65.04	113.16	-48.12	VERTICAL	Peak
4	5937.178	62.76	32.34	6.00	36.90	64.20	68.20	-4.00	VERTICAL	Peak

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7.3 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
Above 960	500	3

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

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

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

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

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

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1015 mbar



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7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	17	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).
Final test	18	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	19	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	20	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	21	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;

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data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

Pre-scan 22

Pre-scan 23

Pre-scan 24

Pre-scan 32

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Pre-scan 33

report(Adapter2).

Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 34

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 35

Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 36

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 37

Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE

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802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

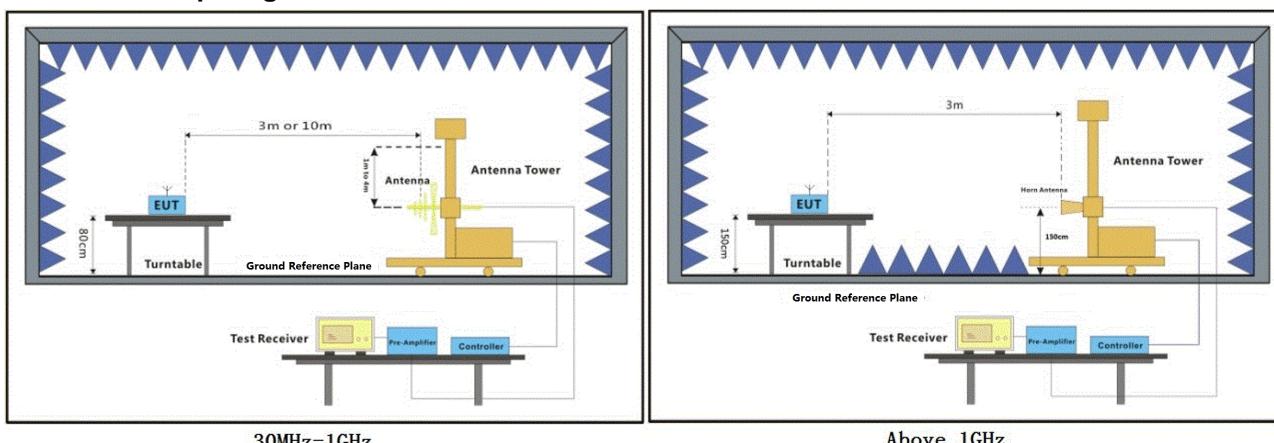
TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 38

Pre-scan 39

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

- a. 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 peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. 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 1GHz, 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.

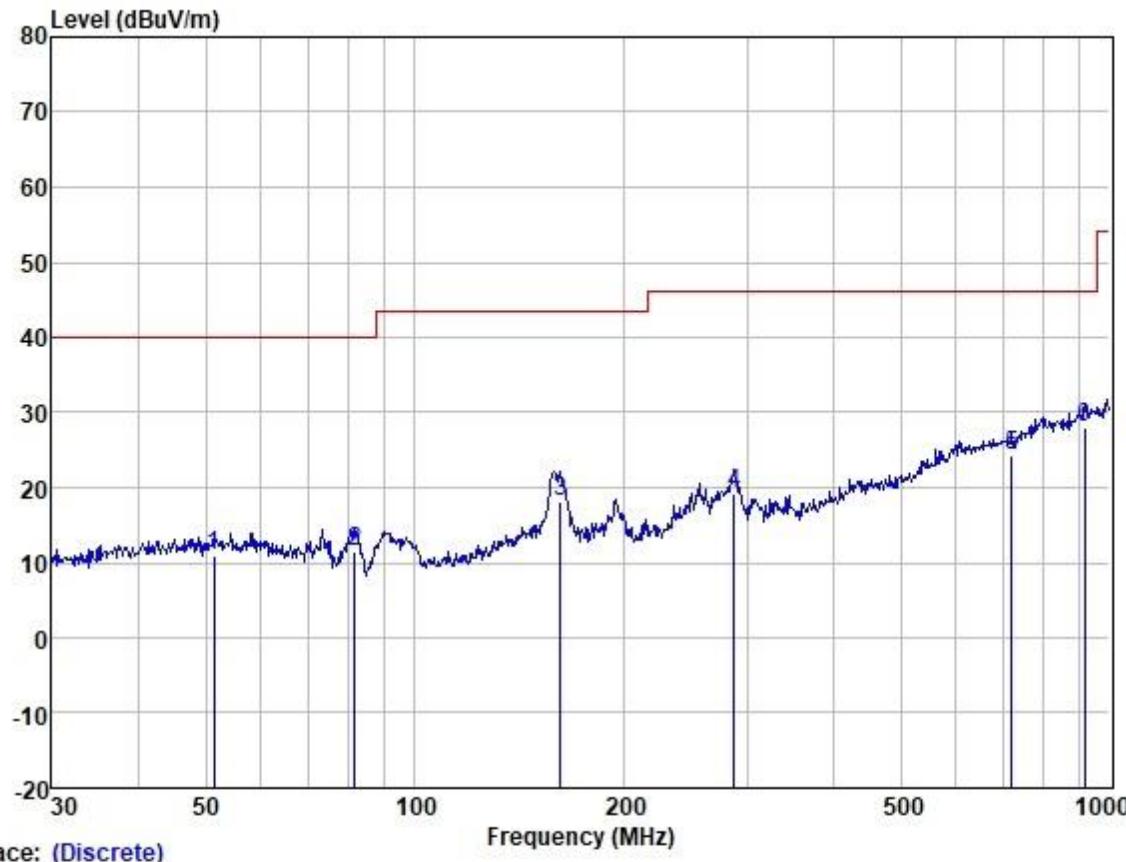
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Guangzhou Branch Testing Center for EEC Laboratory

Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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

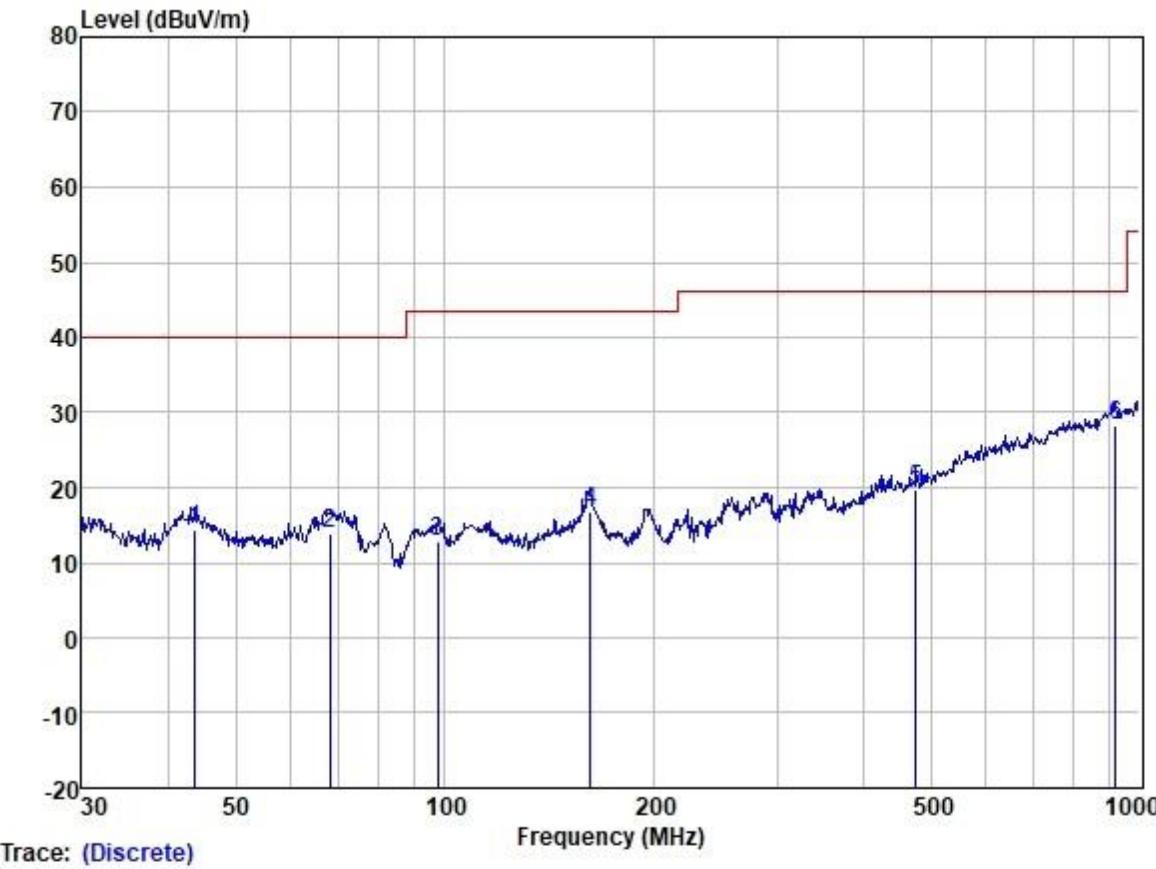
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
<hr/>									
1	51.301	23.30	13.59	1.15	27.10	10.94	40.00	-29.06	HORIZONTAL QP
2	81.783	28.47	8.46	1.50	27.02	11.41	40.00	-28.59	HORIZONTAL QP
3	162.041	29.25	13.25	2.34	26.67	18.17	43.50	-25.33	HORIZONTAL QP
4	287.990	29.76	12.92	3.12	26.50	19.30	46.00	-26.70	HORIZONTAL QP
5	721.726	25.50	20.86	5.86	28.06	24.16	46.00	-21.84	HORIZONTAL QP
6	919.287	24.91	23.84	7.01	27.67	28.09	46.00	-17.91	HORIZONTAL QP

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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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	
<hr/>									
1	43.659	27.02	13.38	1.12	27.10	14.42	40.00	-25.58	VERTICAL QP
2	68.151	27.95	11.62	1.39	27.06	13.90	40.00	-26.10	VERTICAL QP
3	97.456	29.79	8.23	1.71	27.00	12.73	43.50	-30.77	VERTICAL QP
4	162.041	27.97	13.25	2.34	26.67	16.89	43.50	-26.61	VERTICAL QP
5	475.499	25.92	17.16	4.32	27.80	19.60	46.00	-26.40	VERTICAL QP
6	922.516	25.16	23.78	7.01	27.66	28.29	46.00	-17.71	VERTICAL QP

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7.4 Radiated Emissions (above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

Humidity: 53.3 % RH

Atmospheric Pressure: 1015 mbar



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7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	17	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).
Final test	18	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	19	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).
Final test	20	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	21	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;

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Final test 22

data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

Pre-scan 23

Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

Final test 24

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

Pre-scan 32

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

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Pre-scan 33

report(Adapter2).

Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 34

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 35

Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 36

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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 37

Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE

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802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

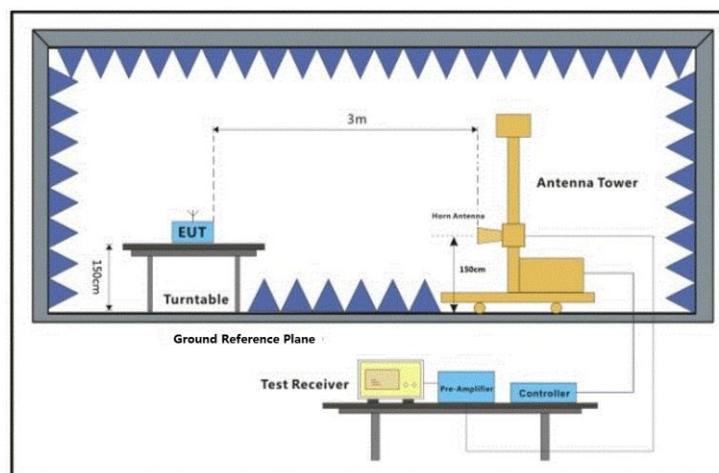
TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 38

Pre-scan 39

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

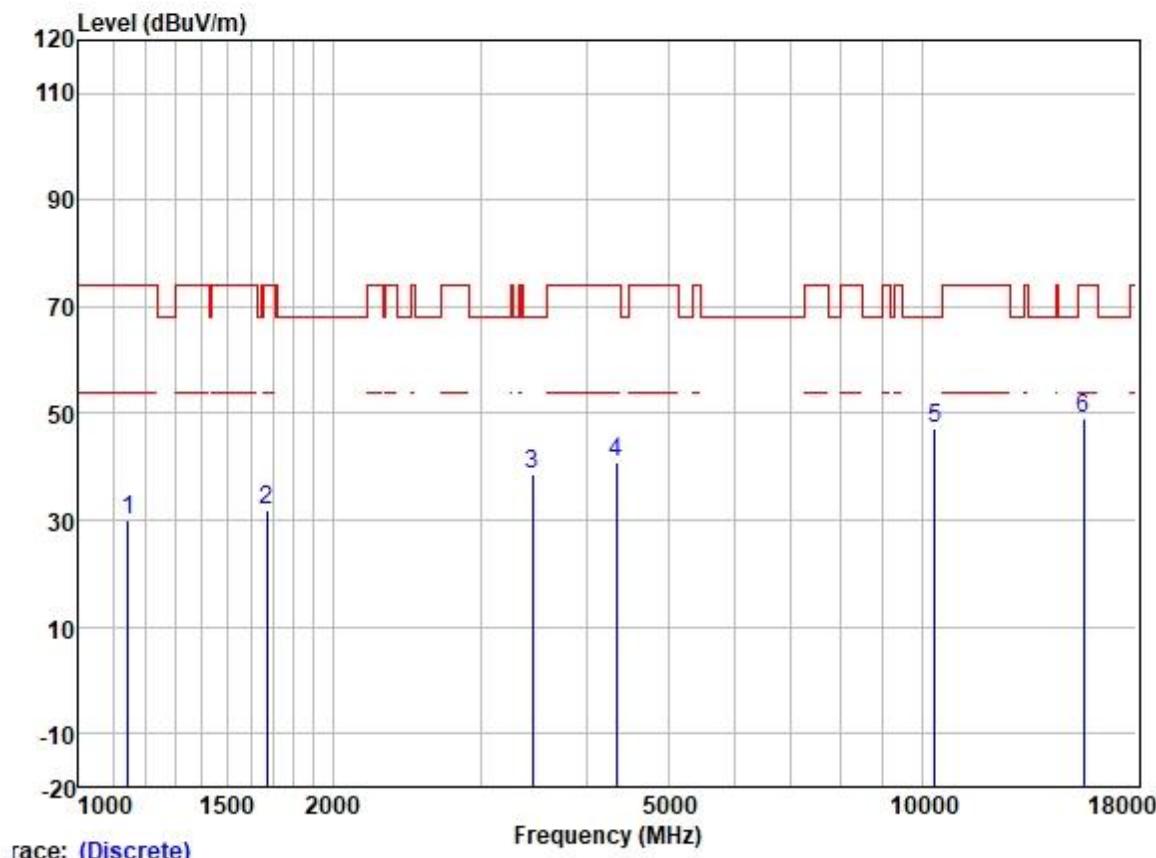
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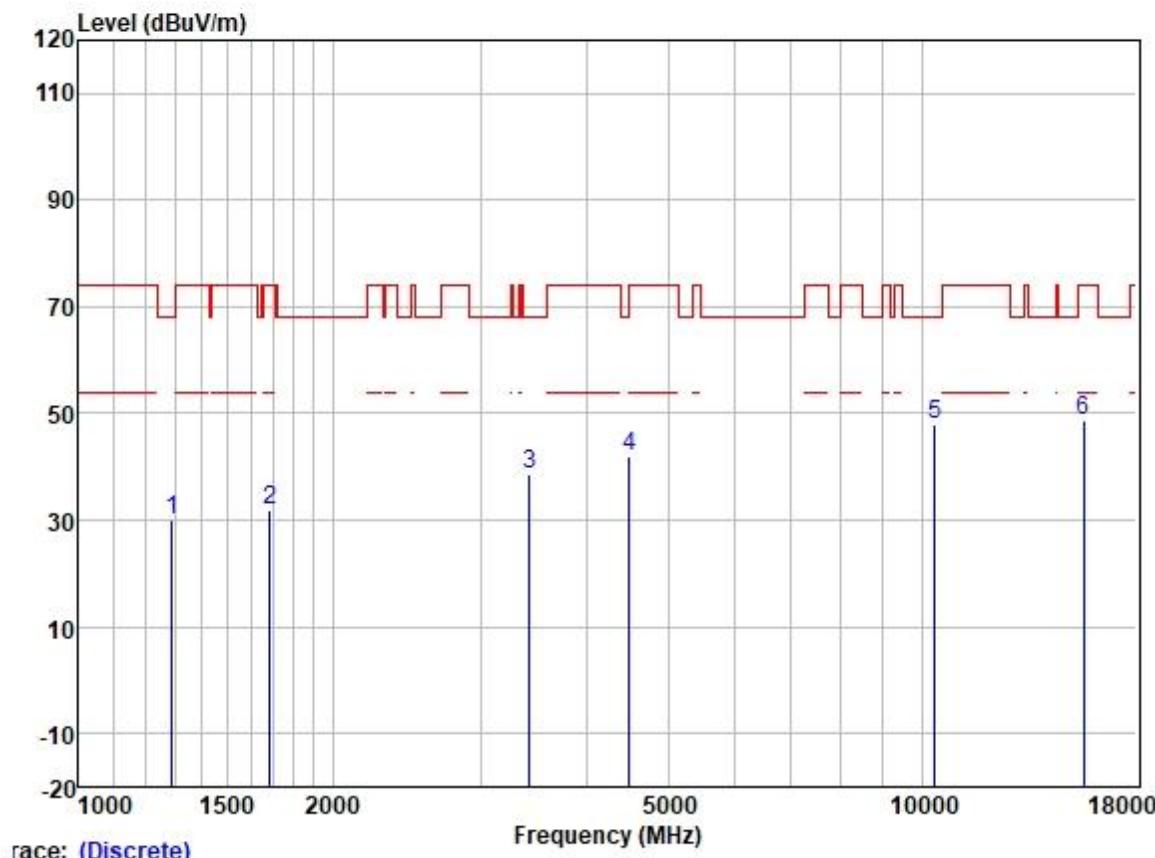
Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



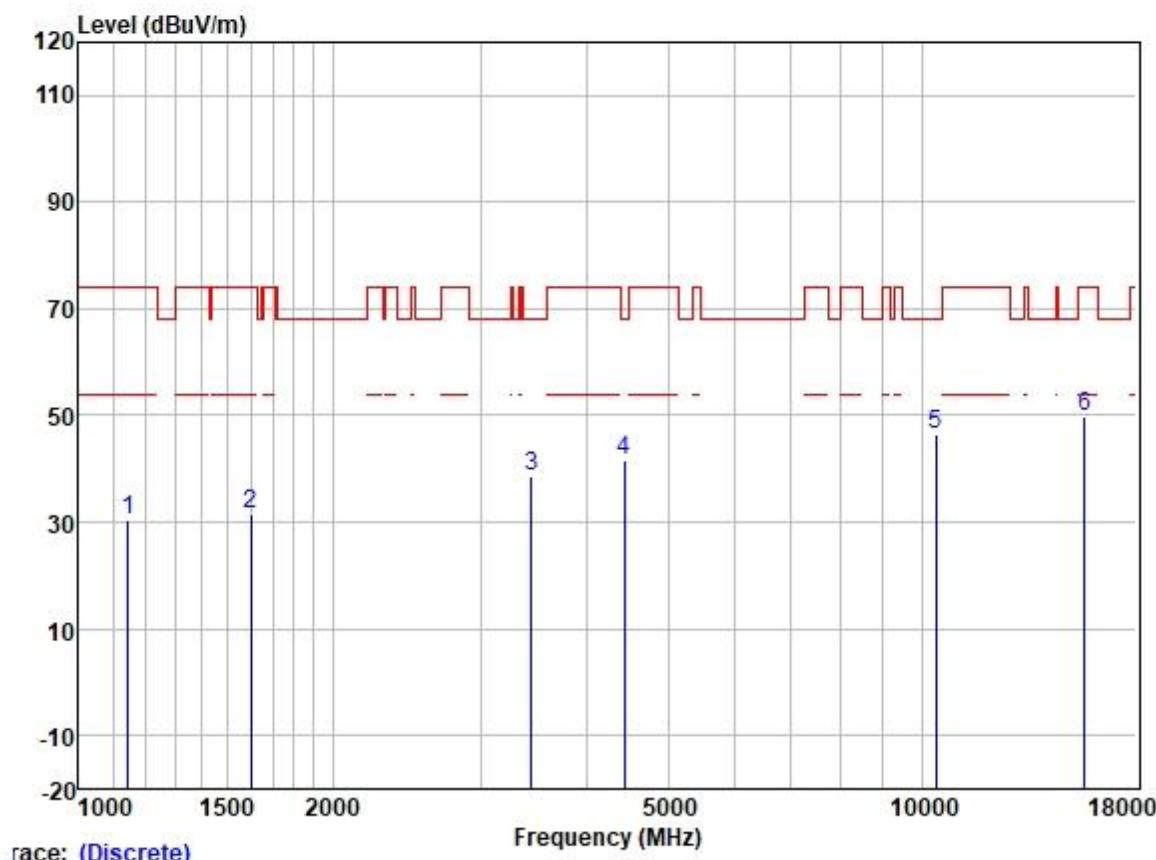
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1289.627	40.73	25.17	2.55	38.31	30.14	68.20	-38.06	VERTICAL	Peak	
2	1687.347	41.18	25.69	2.80	37.91	31.76	74.00	-42.24	VERTICAL	Peak	
3	3425.675	42.50	28.86	4.15	36.97	38.54	68.20	-29.66	VERTICAL	Peak	
4	4495.125	42.77	30.80	5.05	36.82	41.80	68.20	-26.40	VERTICAL	Peak	
5	10360.000	38.62	39.28	7.29	37.37	47.82	68.20	-20.38	VERTICAL	Peak	
6	15540.000	35.29	39.05	9.88	35.39	48.83	74.00	-25.17	VERTICAL	Peak	

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Mode: (Discrete)

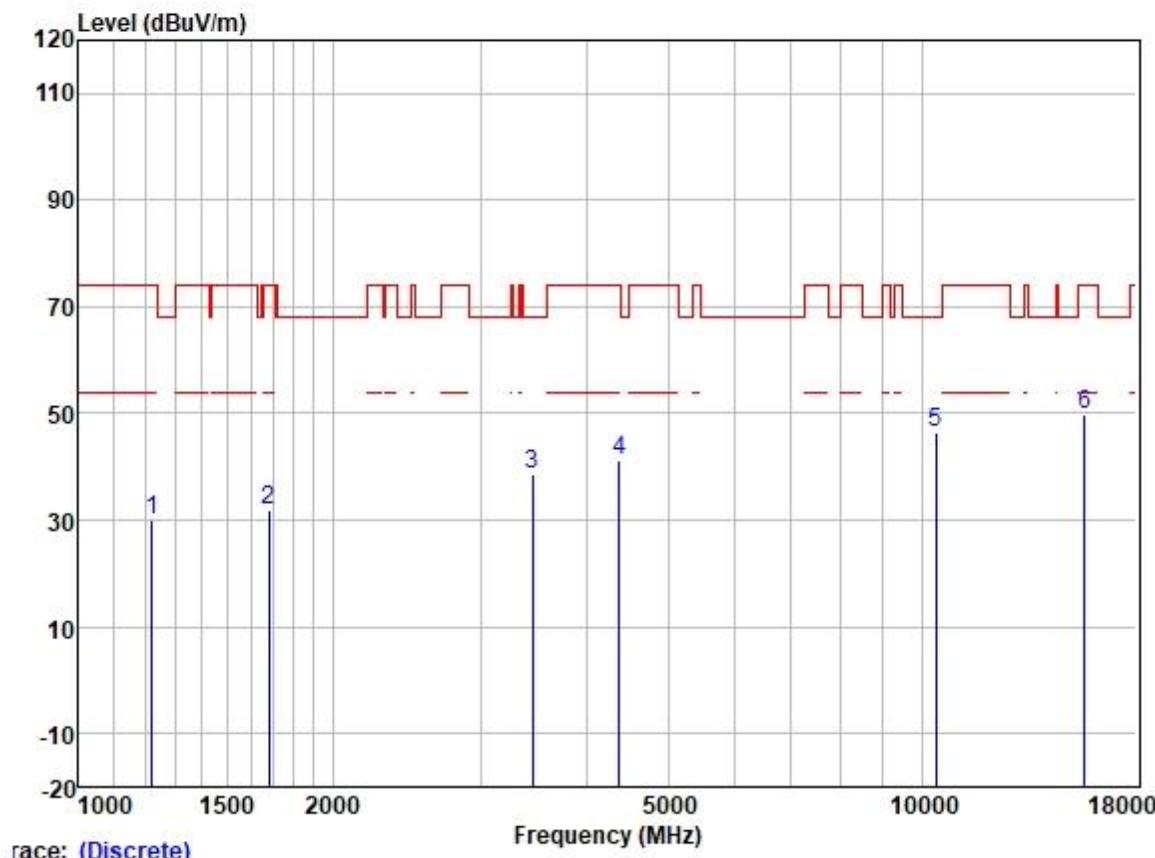
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1145.507	41.94	24.48	2.32	38.42	30.32	74.00	-43.68	HORIZONTAL	Peak	
2	1601.804	41.28	25.58	2.80	37.98	31.68	74.00	-42.32	HORIZONTAL	Peak	
3	3445.535	42.67	28.87	4.18	36.96	38.76	68.20	-29.44	HORIZONTAL	Peak	
4	4443.453	42.68	30.73	4.83	36.81	41.43	68.20	-26.77	HORIZONTAL	Peak	
5	10400.000	36.98	39.33	7.32	37.36	46.27	68.20	-21.93	HORIZONTAL	Peak	
6	15600.000	36.20	38.99	9.88	35.39	49.68	74.00	-24.32	HORIZONTAL	Peak	

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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



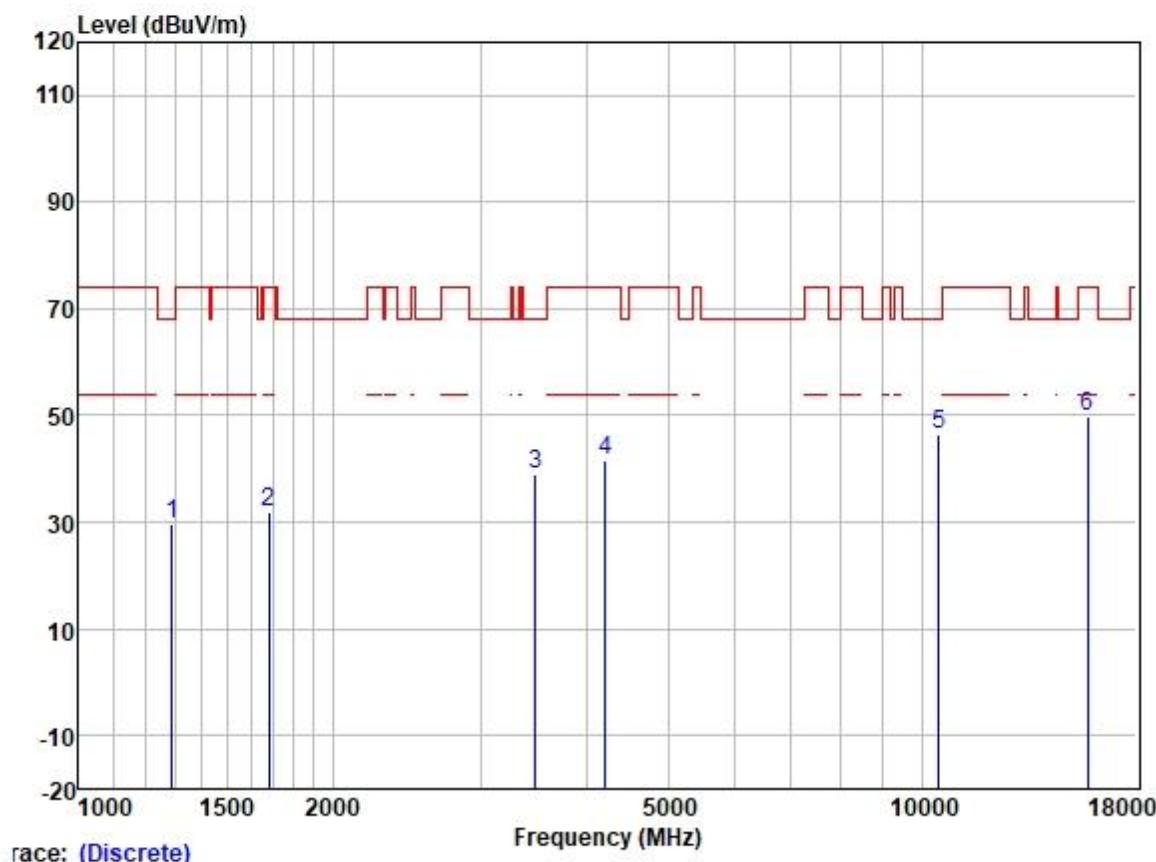
Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss Factor	Level	Limit	Line	Over	Pol/Phase	Remark
	MHz	dBuV	Factor	dB								
1	1220.714	41.28	24.82	2.32	38.37	30.05	74.00	-43.95	VERTICAL		Peak	
2	1682.477	41.37	25.68	2.80	37.91	31.94	74.00	-42.06	VERTICAL		Peak	
3	3455.508	42.58	28.88	4.20	36.96	38.70	68.20	-29.50	VERTICAL		Peak	
4	4379.699	42.63	30.64	4.69	36.81	41.15	74.00	-32.85	VERTICAL		Peak	
5	10400.000	37.32	39.33	7.32	37.36	46.61	68.20	-21.59	VERTICAL		Peak	
6	15600.000	36.41	38.99	9.88	35.39	49.89	74.00	-24.11	VERTICAL		Peak	

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



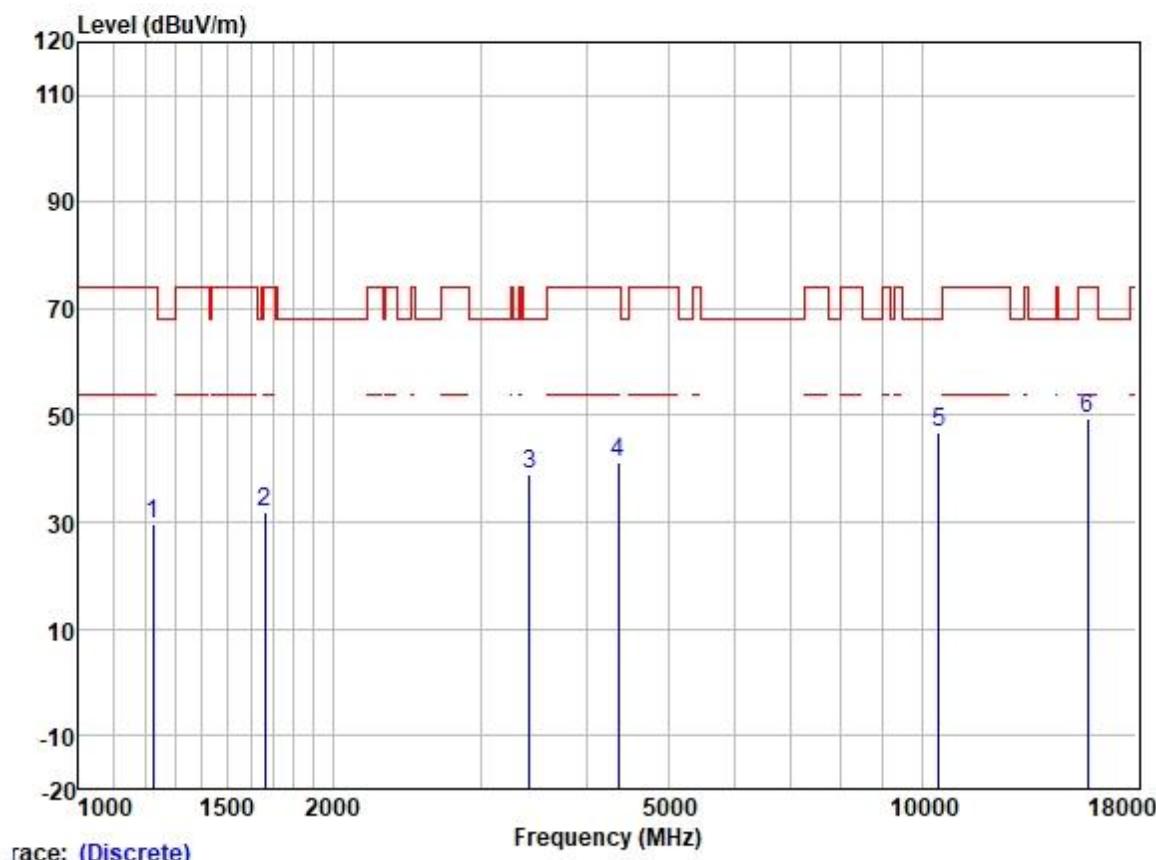
Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1289.627	40.26	25.17	2.55	38.31	29.67	68.20	-38.53	HORIZONTAL	Peak	
2	1682.477	41.48	25.68	2.80	37.91	32.05	74.00	-41.95	HORIZONTAL	Peak	
3	3485.601	42.81	28.89	4.27	36.95	39.02	68.20	-29.18	HORIZONTAL	Peak	
4	4218.186	43.62	30.22	4.60	36.81	41.63	74.00	-32.37	HORIZONTAL	Peak	
5	10480.000	37.11	39.46	7.40	37.36	46.61	68.20	-21.59	HORIZONTAL	Peak	
6	15720.000	36.50	38.78	9.87	35.39	49.76	74.00	-24.24	HORIZONTAL	Peak	

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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB			
1	1224.247	40.88	24.85	2.31	38.37	29.67	74.00	-44.33	VERTICAL	50	Peak	
2	1663.137	41.52	25.65	2.80	37.91	32.06	74.00	-41.94	VERTICAL	50	Peak	
3	3425.675	43.03	28.86	4.15	36.97	39.07	68.20	-29.13	VERTICAL	50	Peak	
4	4367.058	42.73	30.62	4.68	36.81	41.22	74.00	-32.78	VERTICAL	50	Peak	
5	10480.000	37.27	39.46	7.40	37.36	46.77	68.20	-21.43	VERTICAL	50	Peak	
6	15720.000	36.05	38.78	9.87	35.39	49.31	74.00	-24.69	VERTICAL	50	Peak	

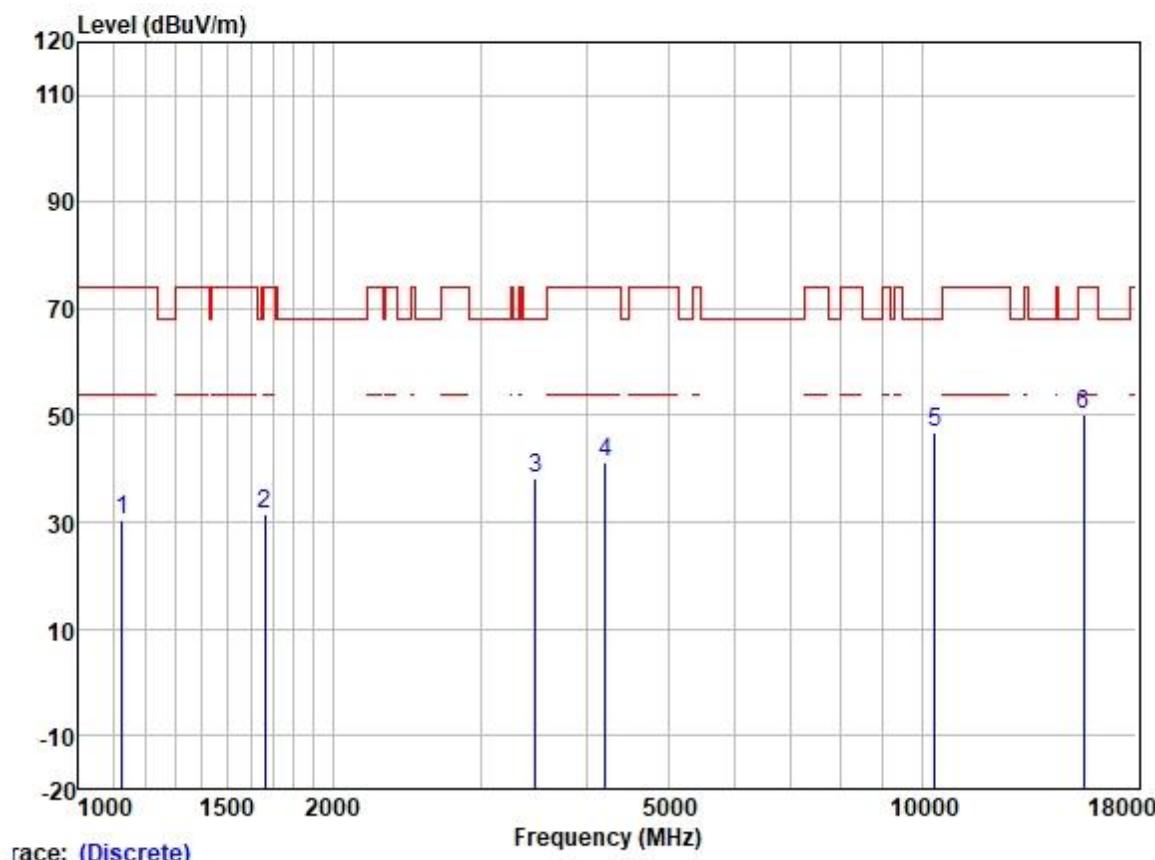
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



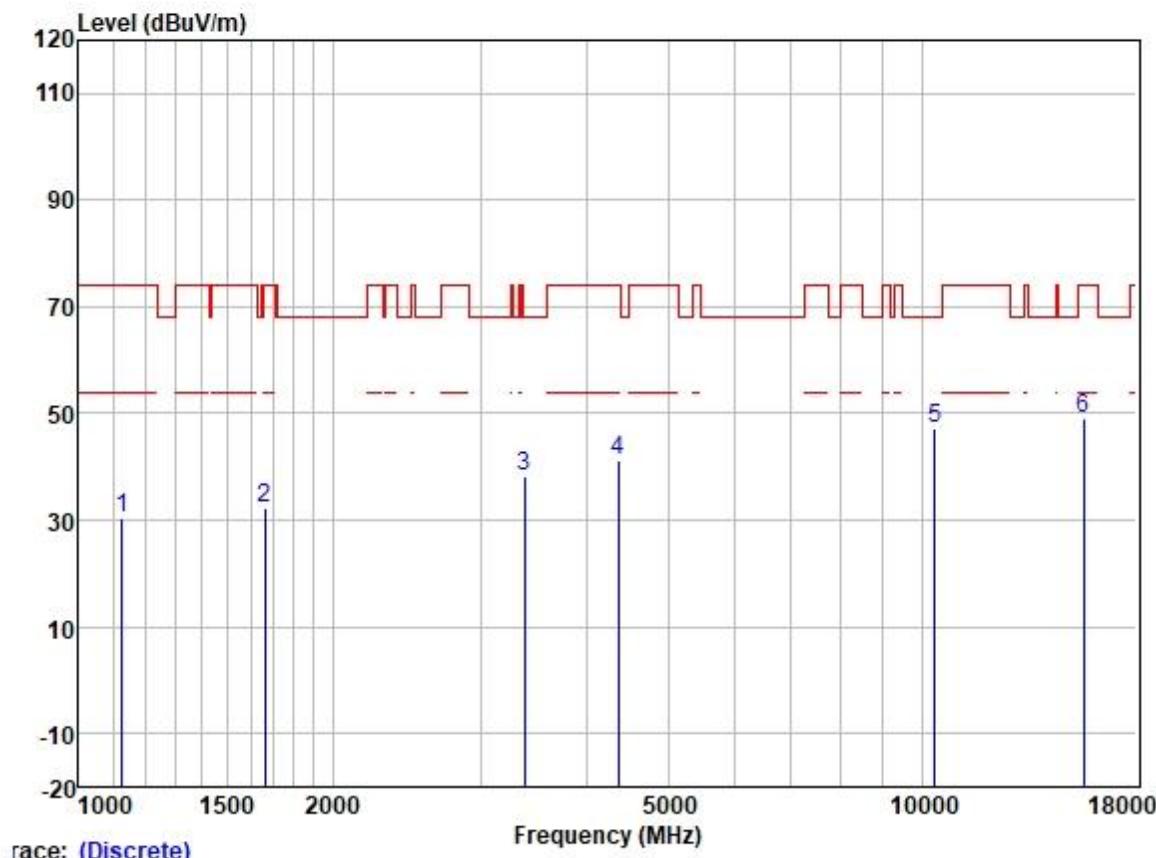
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1125.813	42.04	24.42	2.21	38.43	30.24	74.00	-43.76	HORIZONTAL	Peak	
2	1663.137	40.89	25.65	2.80	37.91	31.43	74.00	-42.57	HORIZONTAL	Peak	
3	3485.601	42.17	28.89	4.27	36.95	38.38	68.20	-29.82	HORIZONTAL	Peak	
4	4218.186	43.13	30.22	4.60	36.81	41.14	74.00	-32.86	HORIZONTAL	Peak	
5	10360.000	37.62	39.28	7.29	37.37	46.82	68.20	-21.38	HORIZONTAL	Peak	
6	15540.000	36.55	39.05	9.88	35.39	50.09	74.00	-23.91	HORIZONTAL	Peak	

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Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor						
1	1125.813	42.11	24.42	2.21	38.43	30.31	74.00	-43.69	VERTICAL	Peak	
2	1663.137	41.57	25.65	2.80	37.91	32.11	74.00	-41.89	VERTICAL	Peak	
3	3376.523	42.45	28.83	4.09	36.99	38.38	68.20	-29.82	VERTICAL	Peak	
4	4367.058	42.59	30.62	4.68	36.81	41.08	74.00	-32.92	VERTICAL	Peak	
5	10360.000	37.87	39.28	7.29	37.37	47.07	68.20	-21.13	VERTICAL	Peak	
6	15540.000	35.71	39.05	9.88	35.39	49.25	74.00	-24.75	VERTICAL	Peak	

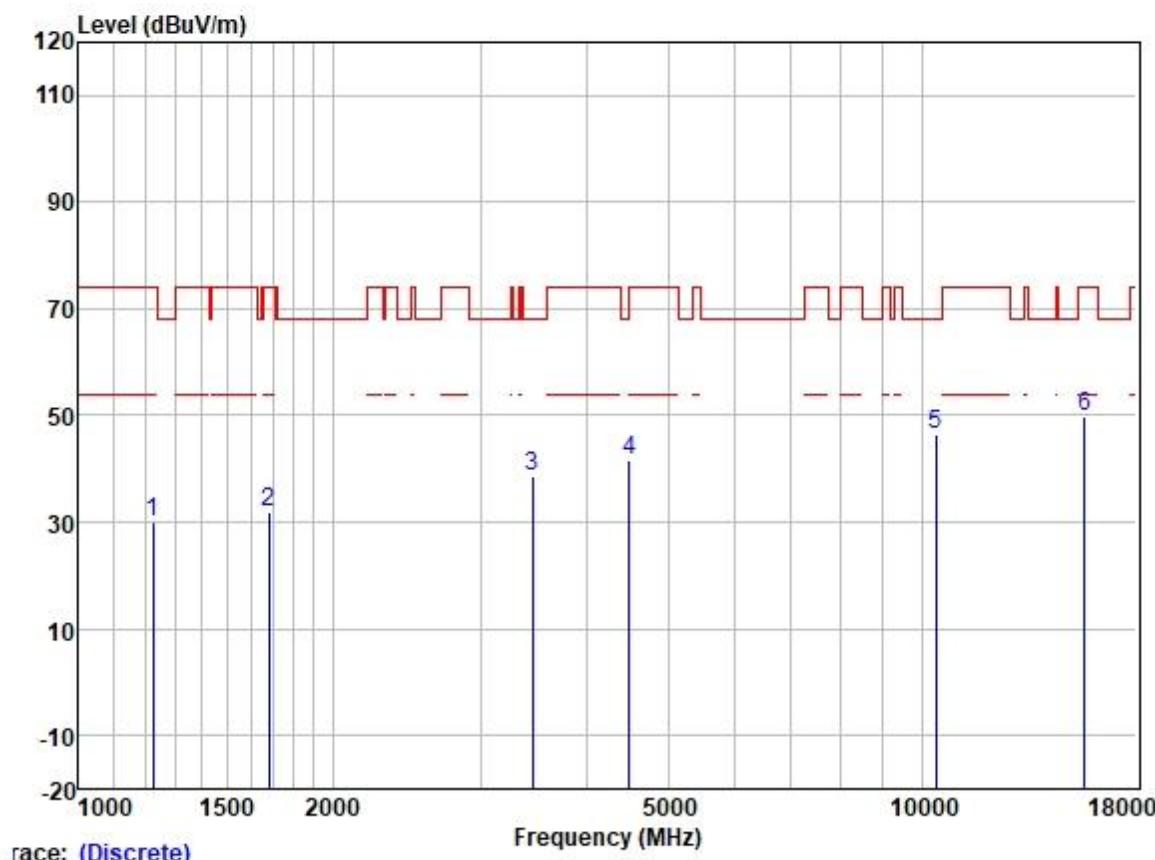
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



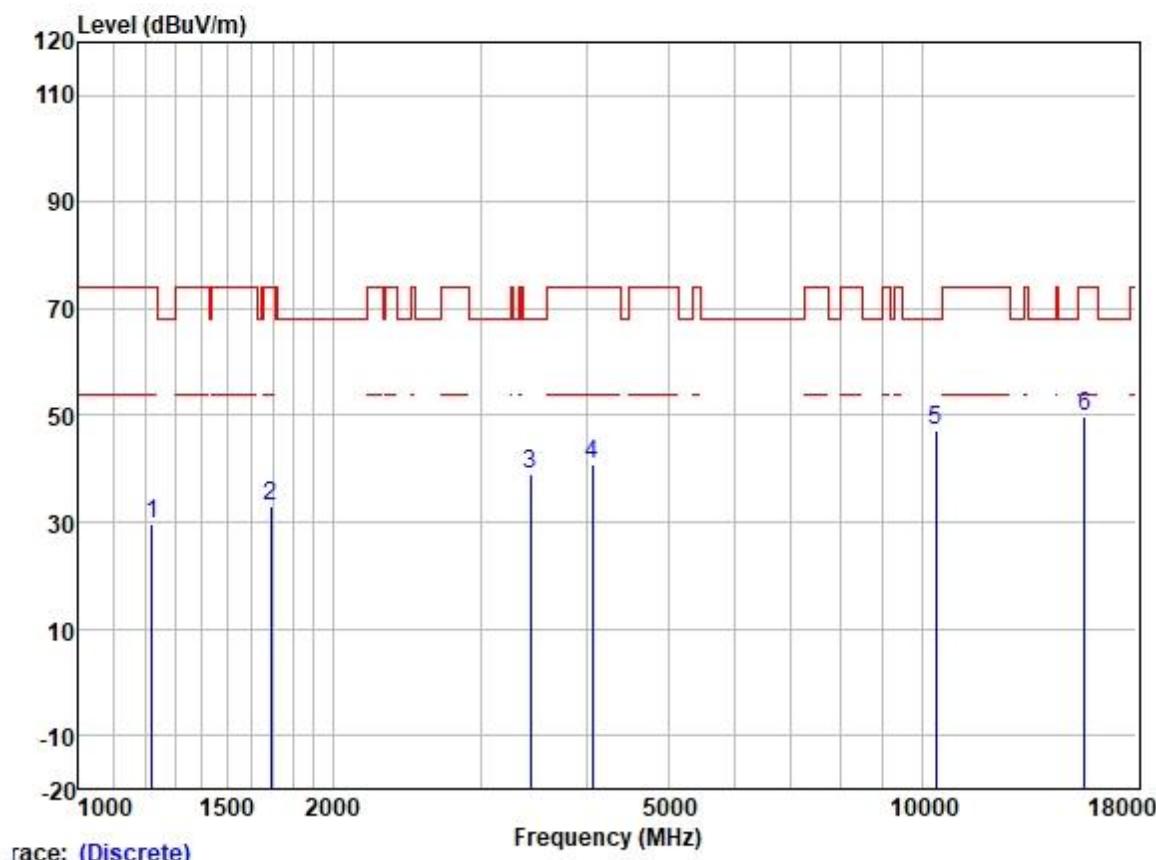
Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1224.247	41.05	24.85	2.31	38.37	29.84	74.00	-44.16	HORIZONTAL	Peak	
2	1682.477	41.42	25.68	2.80	37.91	31.99	74.00	-42.01	HORIZONTAL	Peak	
3	3455.508	42.56	28.88	4.20	36.96	38.68	68.20	-29.52	HORIZONTAL	Peak	
4	4495.125	42.40	30.80	5.05	36.82	41.43	68.20	-26.77	HORIZONTAL	Peak	
5	10400.000	37.23	39.33	7.32	37.36	46.52	68.20	-21.68	HORIZONTAL	Peak	
6	15600.000	36.28	38.99	9.88	35.39	49.76	74.00	-24.24	HORIZONTAL	Peak	

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Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Type: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1220.714	41.06	24.82	2.32	38.37	29.83	74.00	-44.17	VERTICAL	Peak	
2	1692.231	42.24	25.70	2.80	37.89	32.85	74.00	-41.15	VERTICAL	Peak	
3	3435.590	43.05	28.87	4.16	36.97	39.11	68.20	-29.09	VERTICAL	Peak	
4	4062.629	43.35	29.88	4.60	36.80	41.03	74.00	-32.97	VERTICAL	Peak	
5	10400.000	38.04	39.33	7.32	37.36	47.33	68.20	-20.87	VERTICAL	Peak	
6	15600.000	36.35	38.99	9.88	35.39	49.83	74.00	-24.17	VERTICAL	Peak	

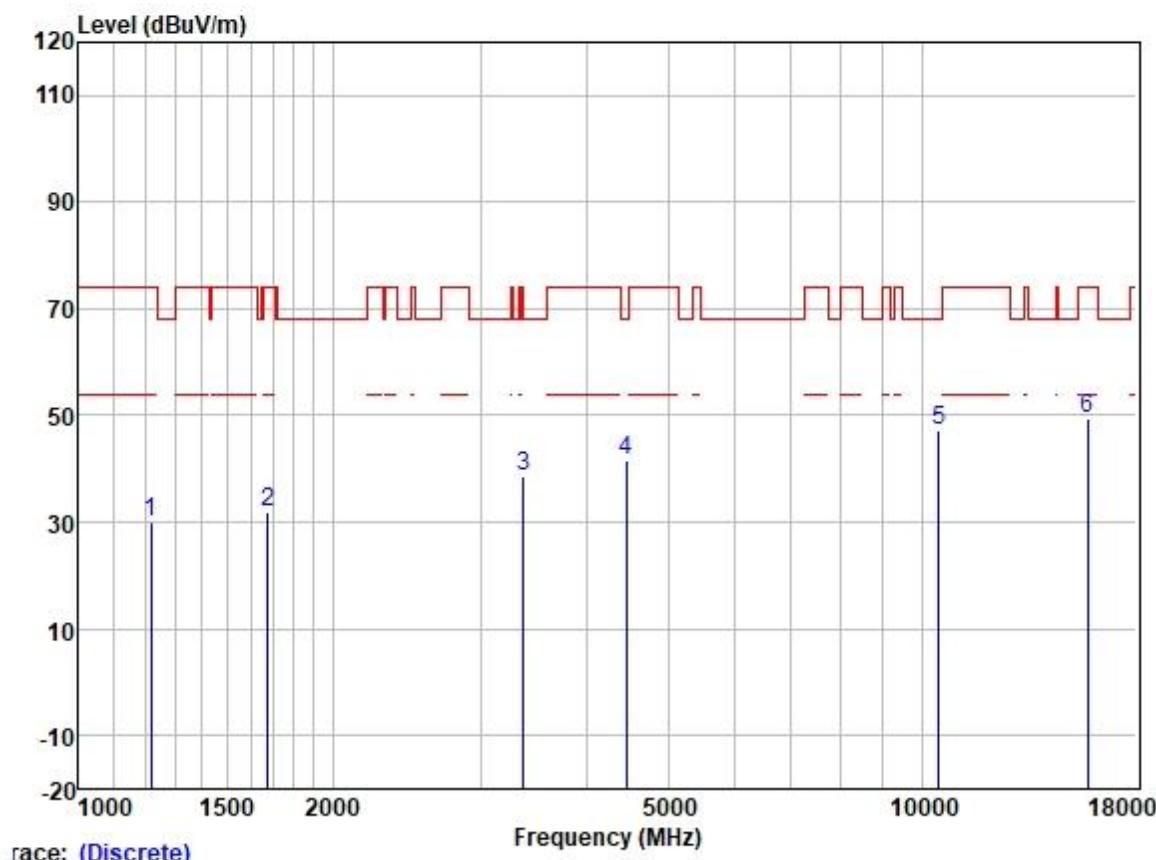
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

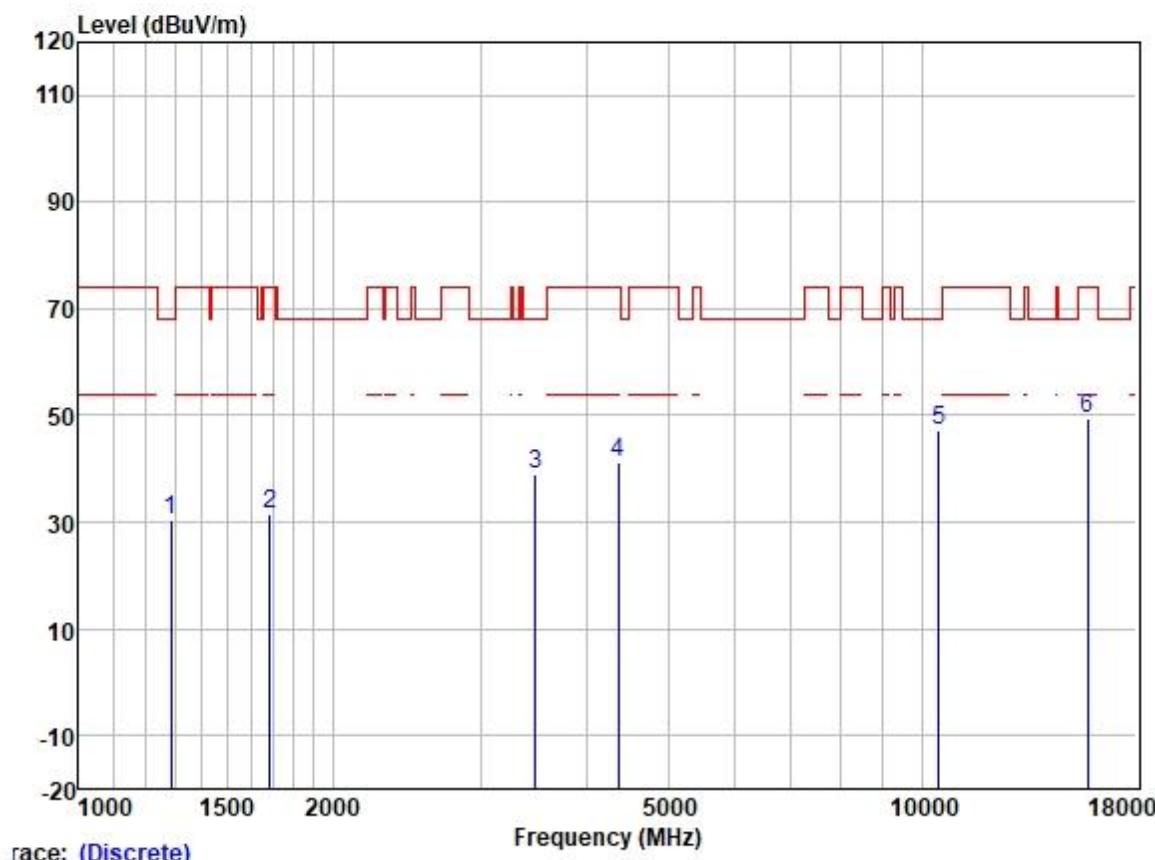
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1217.190	41.26	24.79	2.32	38.37	30.00	74.00	-44.00	HORIZONTAL	Peak	
2	1677.621	41.16	25.68	2.80	37.91	31.73	74.00	-42.27	HORIZONTAL	Peak	
3	3366.778	42.75	28.82	4.09	36.99	38.67	68.20	-29.53	HORIZONTAL	Peak	
4	4456.315	42.63	30.75	4.88	36.81	41.45	68.20	-26.75	HORIZONTAL	Peak	
5	10480.000	37.71	39.46	7.40	37.36	47.21	68.20	-20.99	HORIZONTAL	Peak	
6	15720.000	36.03	38.78	9.87	35.39	49.29	74.00	-24.71	HORIZONTAL	Peak	

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Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss Factor	Level	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	dB									
1	1285.904	41.16	25.16	2.53	38.33	30.52	68.20	-37.68	VERTICAL			Peak	
2	1687.347	41.02	25.69	2.80	37.91	31.60	74.00	-42.40	VERTICAL			Peak	
3	3485.601	42.93	28.89	4.27	36.95	39.14	68.20	-29.06	VERTICAL			Peak	
4	4367.058	42.74	30.62	4.68	36.81	41.23	74.00	-32.77	VERTICAL			Peak	
5	10480.000	37.71	39.46	7.40	37.36	47.21	68.20	-20.99	VERTICAL			Peak	
6	15720.000	36.35	38.78	9.87	35.39	49.61	74.00	-24.39	VERTICAL			Peak	

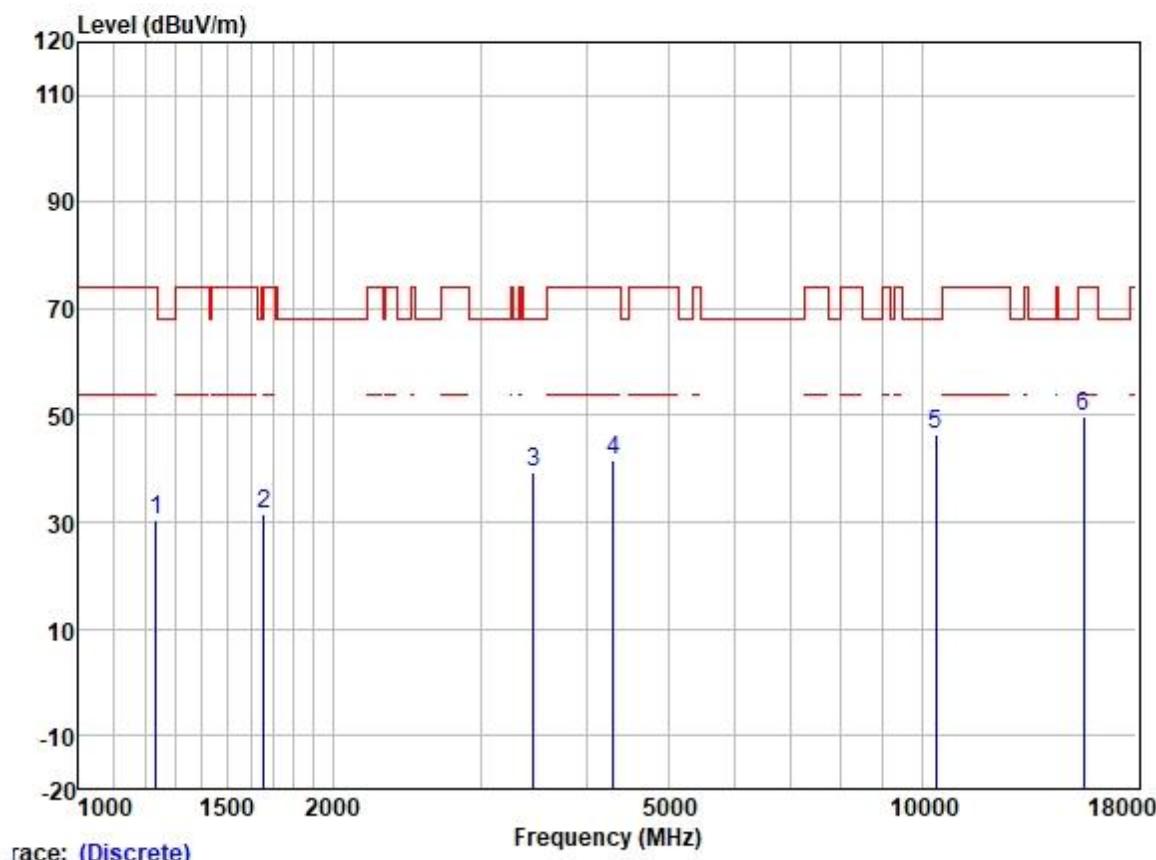
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1234.909	41.57	24.93	2.30	38.37	30.43	74.00	-43.57	HORIZONTAL	Peak	
2	1658.337	41.10	25.65	2.80	37.93	31.62	68.20	-36.58	HORIZONTAL	Peak	
3	3465.510	43.03	28.88	4.22	36.95	39.18	68.20	-29.02	HORIZONTAL	Peak	
4	4304.400	43.19	30.48	4.65	36.81	41.51	74.00	-32.49	HORIZONTAL	Peak	
5	10380.000	37.31	39.33	7.32	37.37	46.59	68.20	-21.61	HORIZONTAL	Peak	
6	15570.000	36.47	38.99	9.88	35.39	49.95	74.00	-24.05	HORIZONTAL	Peak	

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