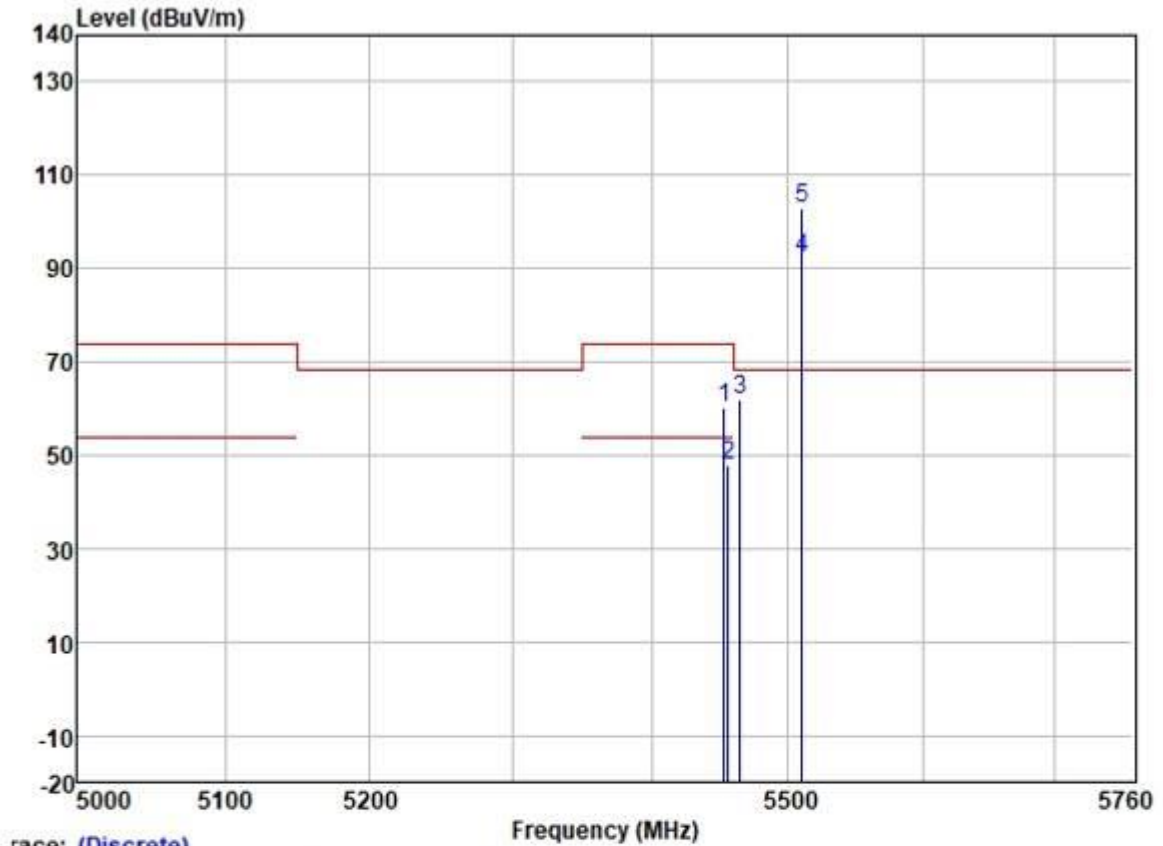


Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



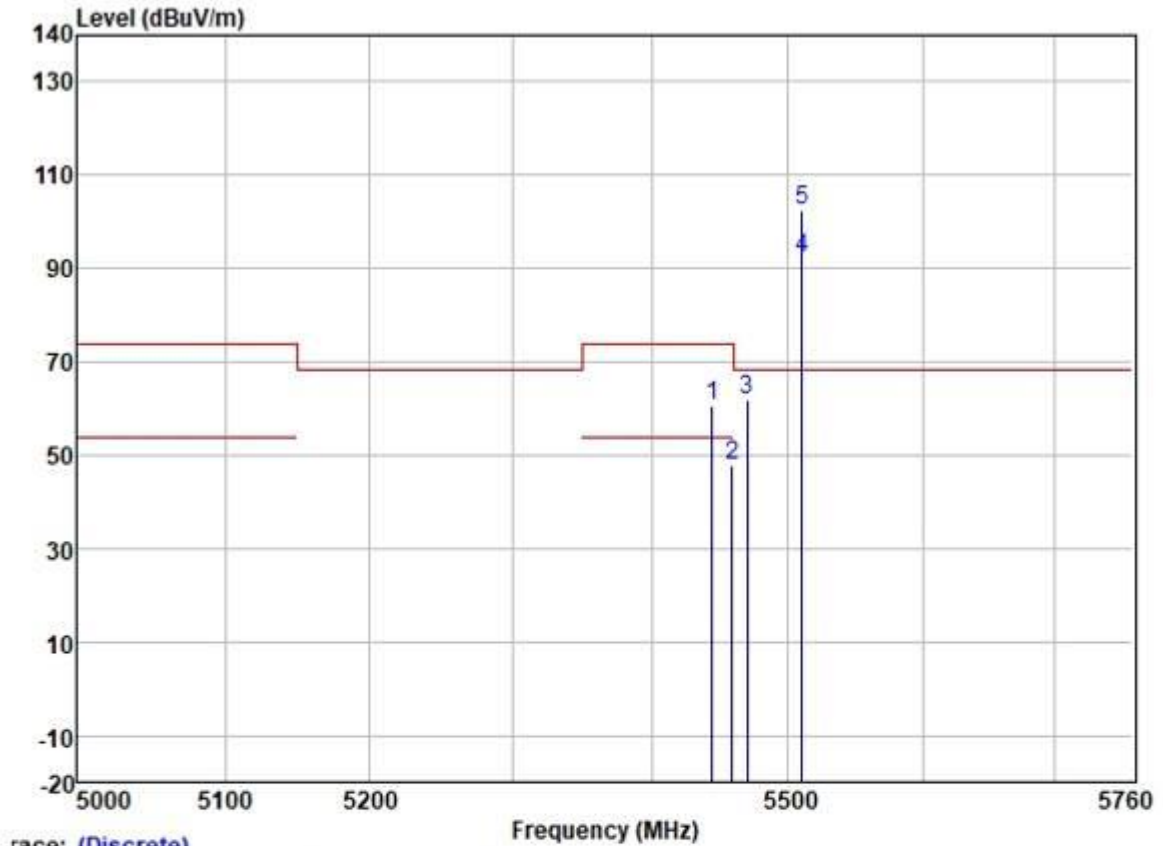
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5452.918	59.16	31.79	6.26	36.88	60.33	74.00	-13.67	HORIZONTAL	Peak
2	5455.850	46.88	31.79	6.26	36.88	48.05	54.00	-5.95	HORIZONTAL	Average
3	5464.654	60.64	31.80	6.31	36.88	61.87	68.20	-6.33	HORIZONTAL	Peak
4	5510.000	90.94	31.80	6.40	36.88	92.26	-----	-----	HORIZONTAL	Average
5 *	5510.000	101.66	31.80	6.40	36.88	102.98	68.20	34.78	HORIZONTAL	Peak



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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



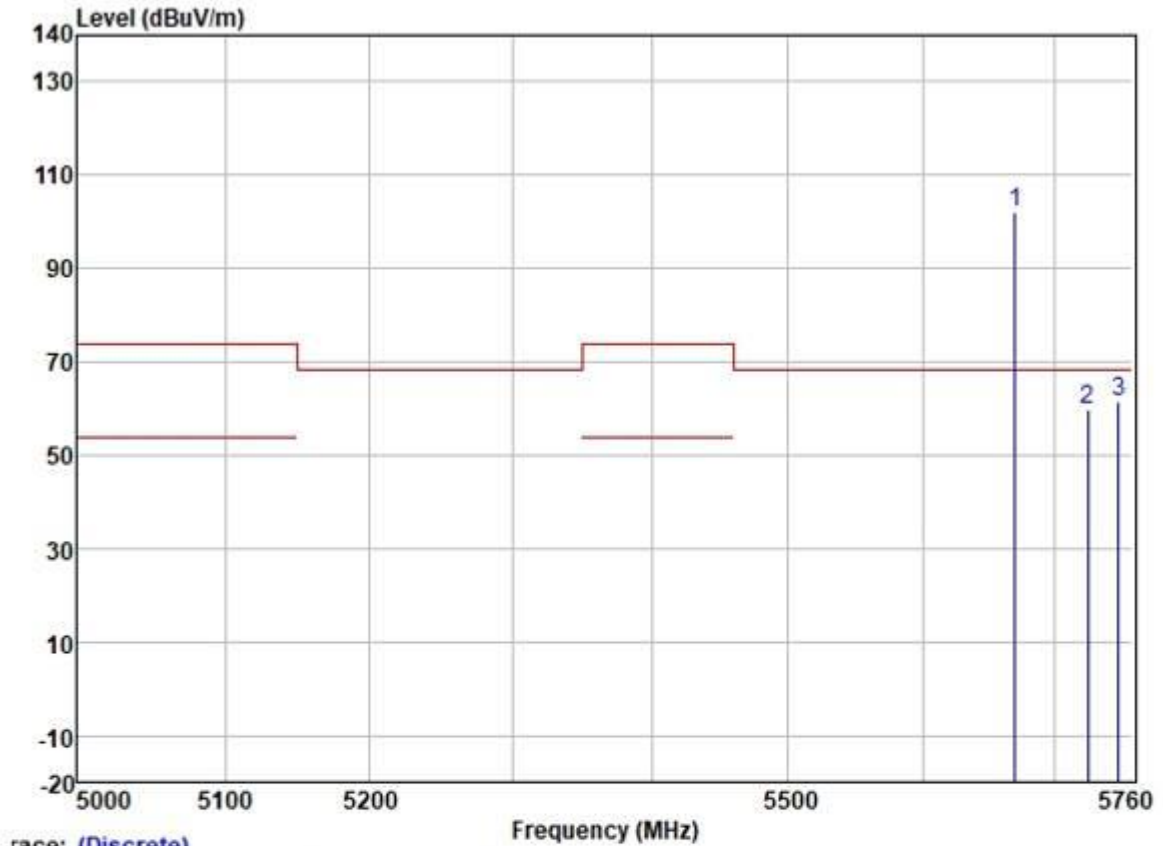
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5443.854	59.39	31.79	6.20	36.88	60.50	74.00	-13.50	VERTICAL	Peak
2	5458.923	46.55	31.79	6.26	36.88	47.72	54.00	-6.28	VERTICAL	Average
3	5469.832	60.52	31.80	6.31	36.88	61.75	68.20	-6.45	VERTICAL	Peak
4	5510.000	90.91	31.80	6.40	36.88	92.23	-----	-----	VERTICAL	Average
5 *	5510.000	100.98	31.80	6.40	36.88	102.30	68.20	34.10	VERTICAL	Peak



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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



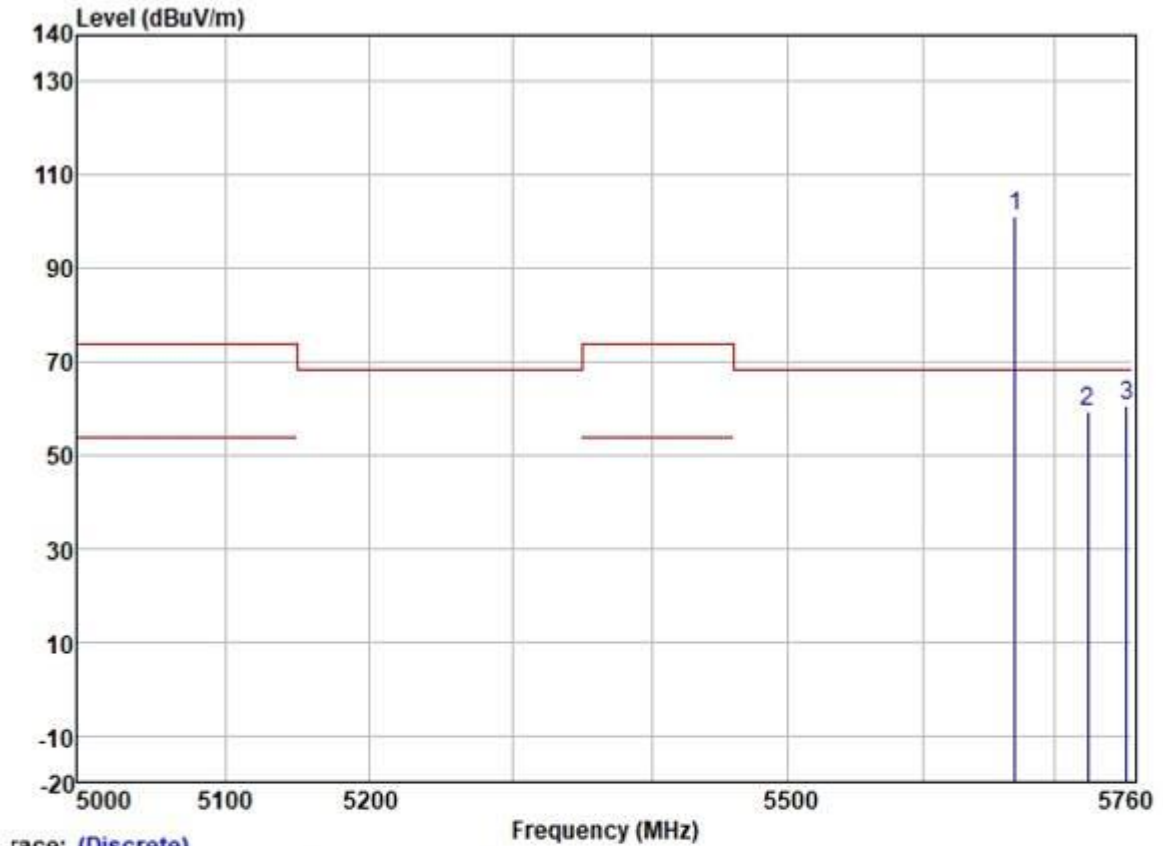
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	5670.000	100.40	31.97	6.37	36.89	101.85	68.20	33.65	HORIZONTAL Peak
2	5725.000	58.43	32.07	6.25	36.89	59.86	68.20	-8.34	HORIZONTAL Peak
3	5749.046	59.88	32.10	6.20	36.89	61.29	68.20	-6.91	HORIZONTAL Peak



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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



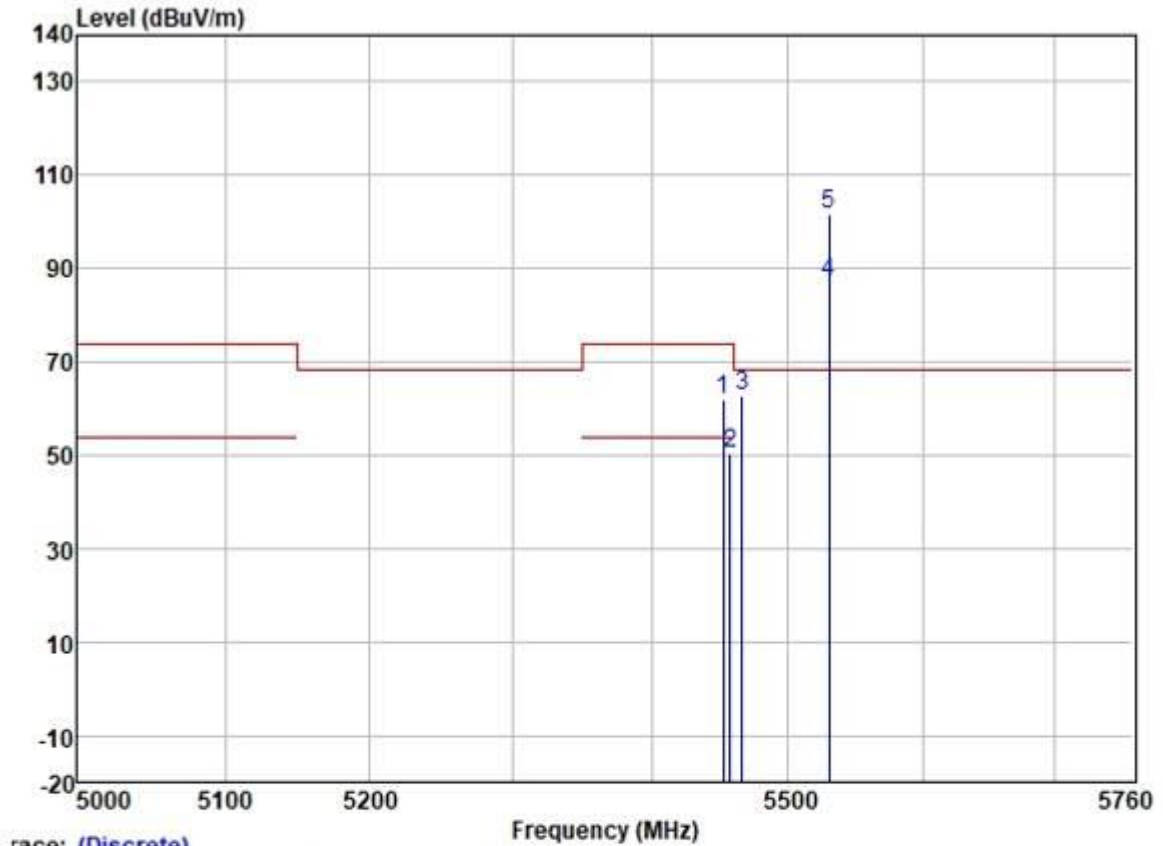
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	5670.000	99.83	31.97	6.37	36.89	101.28	68.20	33.08	VERTICAL Peak
2	5725.000	57.92	32.07	6.25	36.89	59.35	68.20	-8.85	VERTICAL Peak
3	5754.969	59.17	32.10	6.20	36.89	60.58	68.20	-7.62	VERTICAL Peak



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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



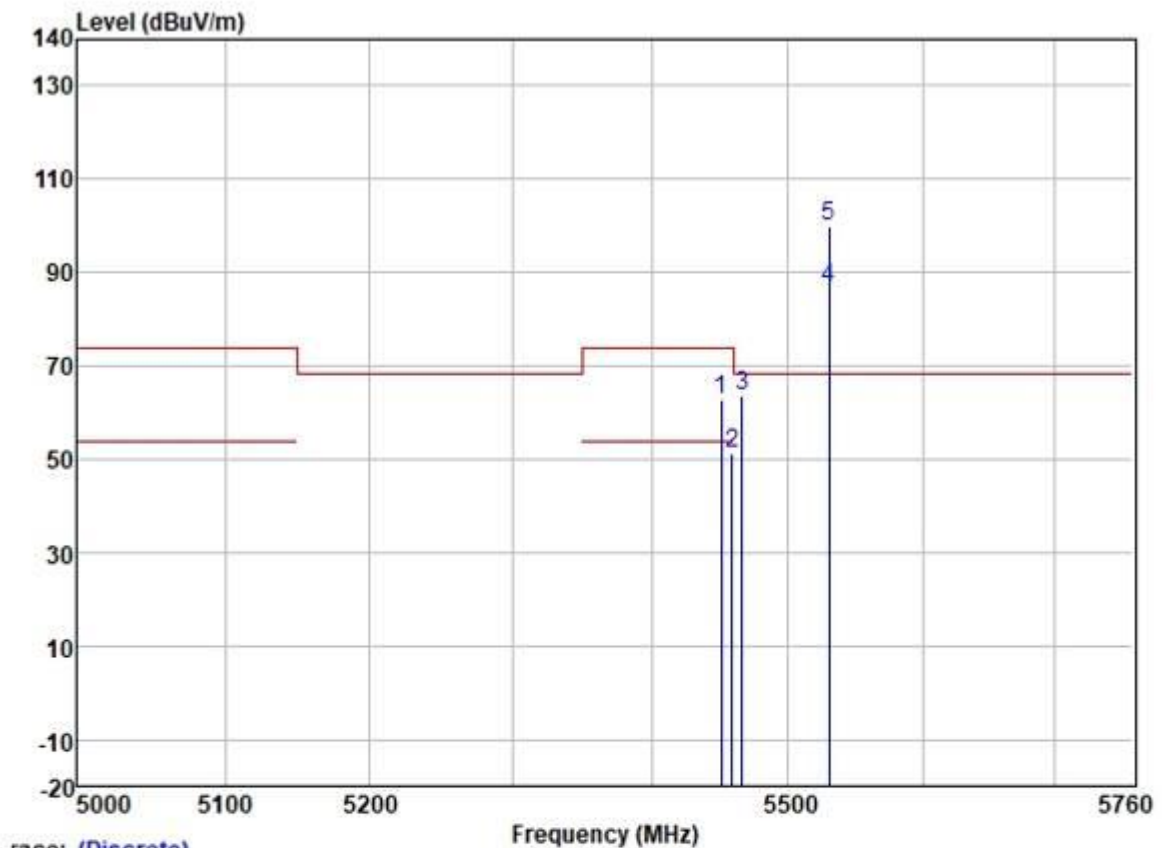
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5452.308	60.91	31.79	6.26	36.88	62.08	74.00	-11.92	HORIZONTAL Peak
2	5457.438	49.05	31.79	6.26	36.88	50.22	54.00	-3.78	HORIZONTAL Average
3	5466.171	61.53	31.80	6.31	36.88	62.76	68.20	-5.44	HORIZONTAL Peak
4	5530.000	85.82	31.83	6.37	36.89	87.13	-----	-----	HORIZONTAL Average
5 *	5530.000	100.13	31.83	6.37	36.89	101.44	68.20	33.24	HORIZONTAL Peak



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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



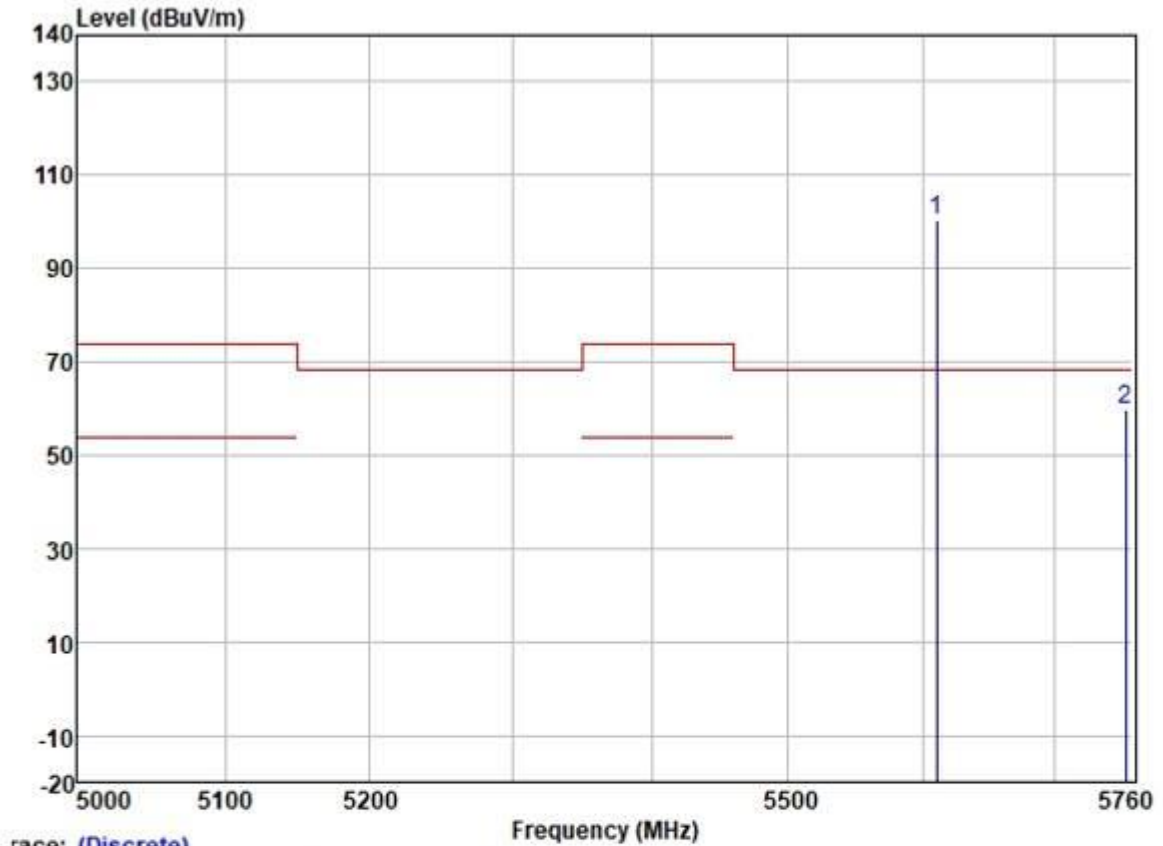
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5450.770	61.51	31.79	6.26	36.88	62.68	74.00	-11.32	VERTICAL	Peak
2	5458.722	50.16	31.79	6.26	36.88	51.33	54.00	-2.67	VERTICAL	Average
3	5466.171	62.50	31.80	6.31	36.88	63.73	68.20	-4.47	VERTICAL	Peak
4	5530.000	85.38	31.83	6.37	36.89	86.69	-----	-----	VERTICAL	Average
5 *	5530.000	98.40	31.83	6.37	36.89	99.71	68.20	31.51	VERTICAL	Peak



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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



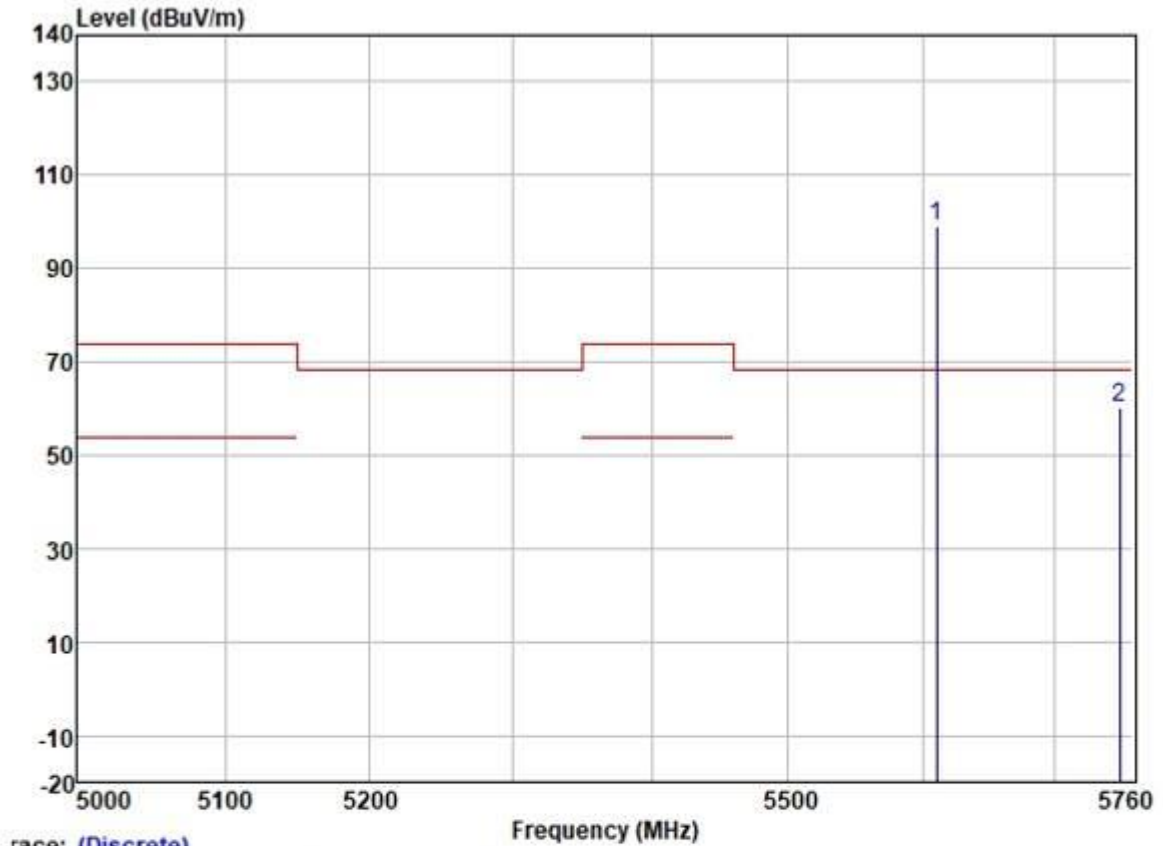
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5610.000	98.85	31.91	6.32	36.89	100.19	68.20	31.99	HORIZONTAL	Peak
2	5754.507	58.44	32.10	6.20	36.89	59.85	68.20	-8.35	HORIZONTAL	Peak



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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



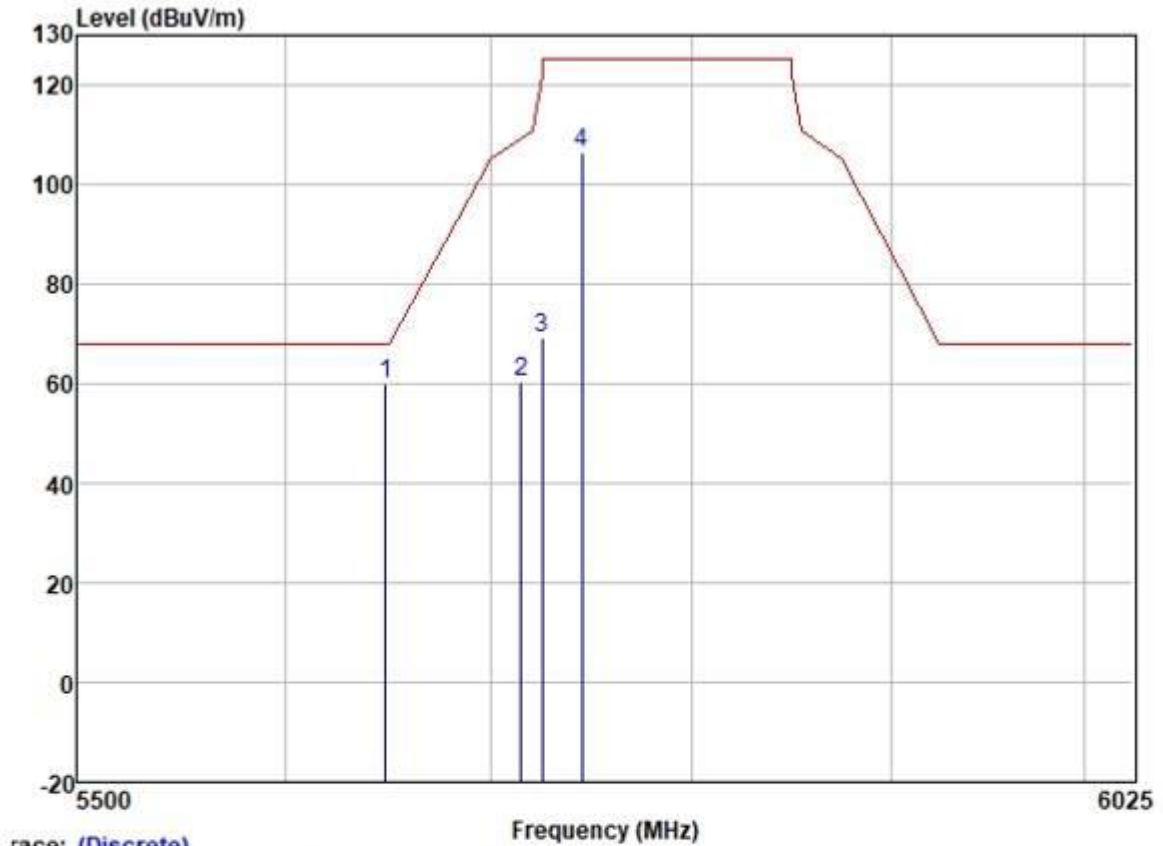
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 *	5610.000	97.76	31.91	6.32	36.89	99.10	68.20	30.90	VERTICAL	Peak
2	5749.831	58.88	32.10	6.20	36.89	60.29	68.20	-7.91	VERTICAL	Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



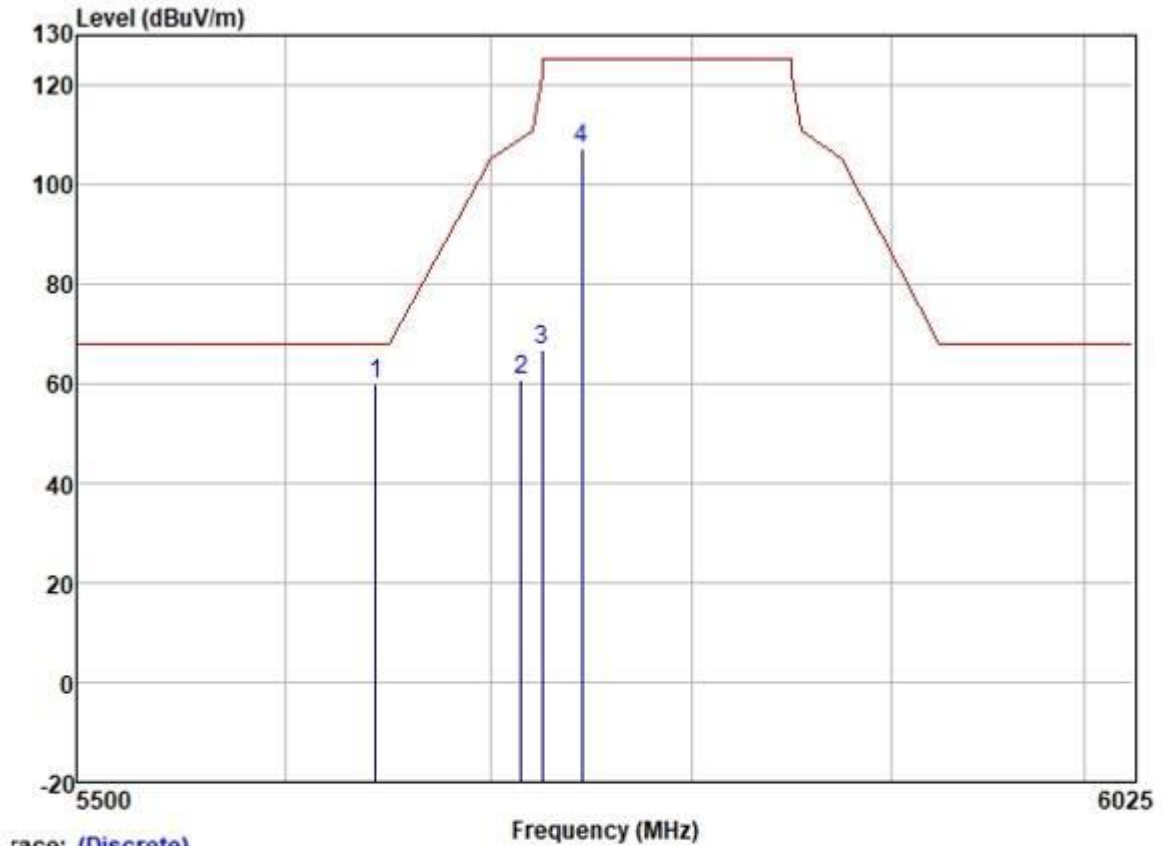
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5648.165	58.54	31.95	6.35	36.89	59.95	68.20	-8.25	HORIZONTAL Peak
2	5715.000	58.79	32.04	6.33	36.89	60.27	109.40	-49.13	HORIZONTAL Peak
3	5725.000	67.68	32.07	6.25	36.89	69.11	122.20	-53.09	HORIZONTAL Peak
4	5745.000	105.06	32.10	6.20	36.89	106.47	125.20	-18.73	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



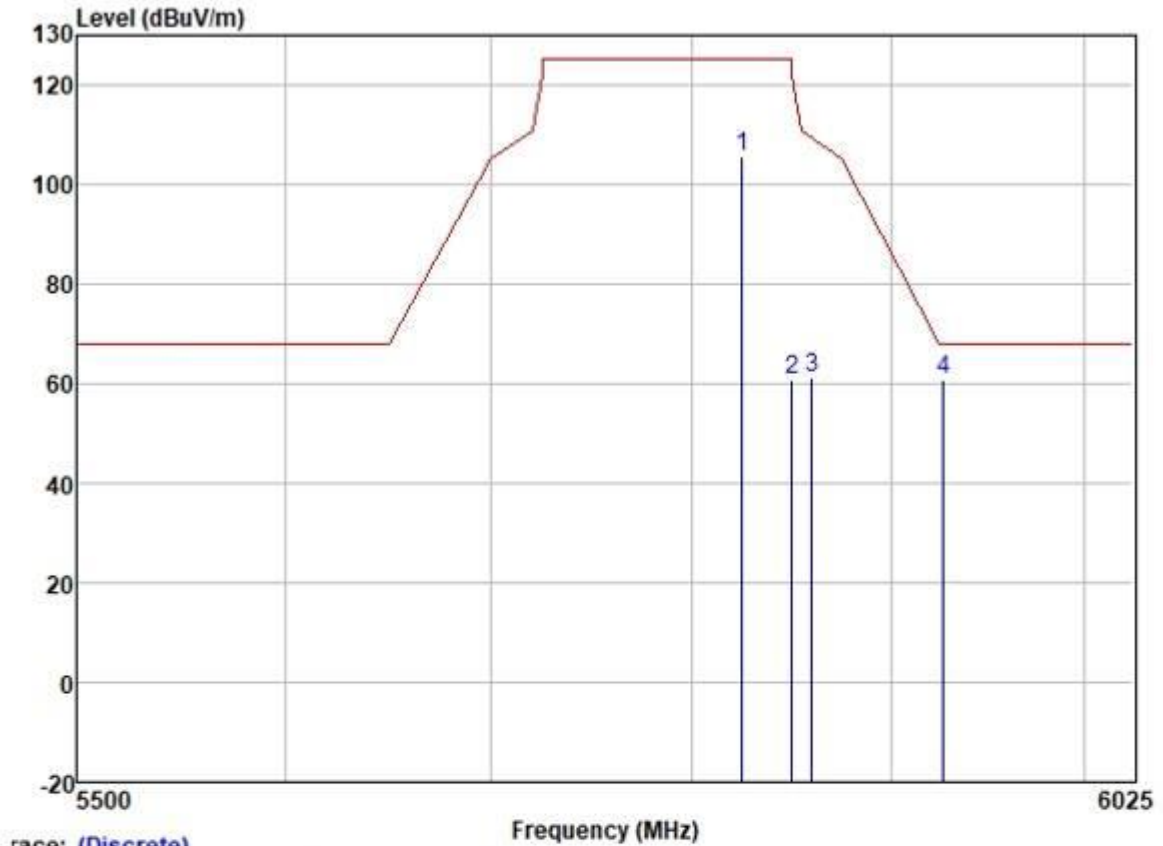
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5643.458	58.76	31.95	6.35	36.89	60.17	68.20	-8.03	VERTICAL Peak
2	5715.000	59.13	32.04	6.33	36.89	60.61	109.40	-48.79	VERTICAL Peak
3	5725.000	65.31	32.07	6.25	36.89	66.74	122.20	-55.46	VERTICAL Peak
4	5745.000	105.63	32.10	6.20	36.89	107.04	125.20	-18.16	VERTICAL Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



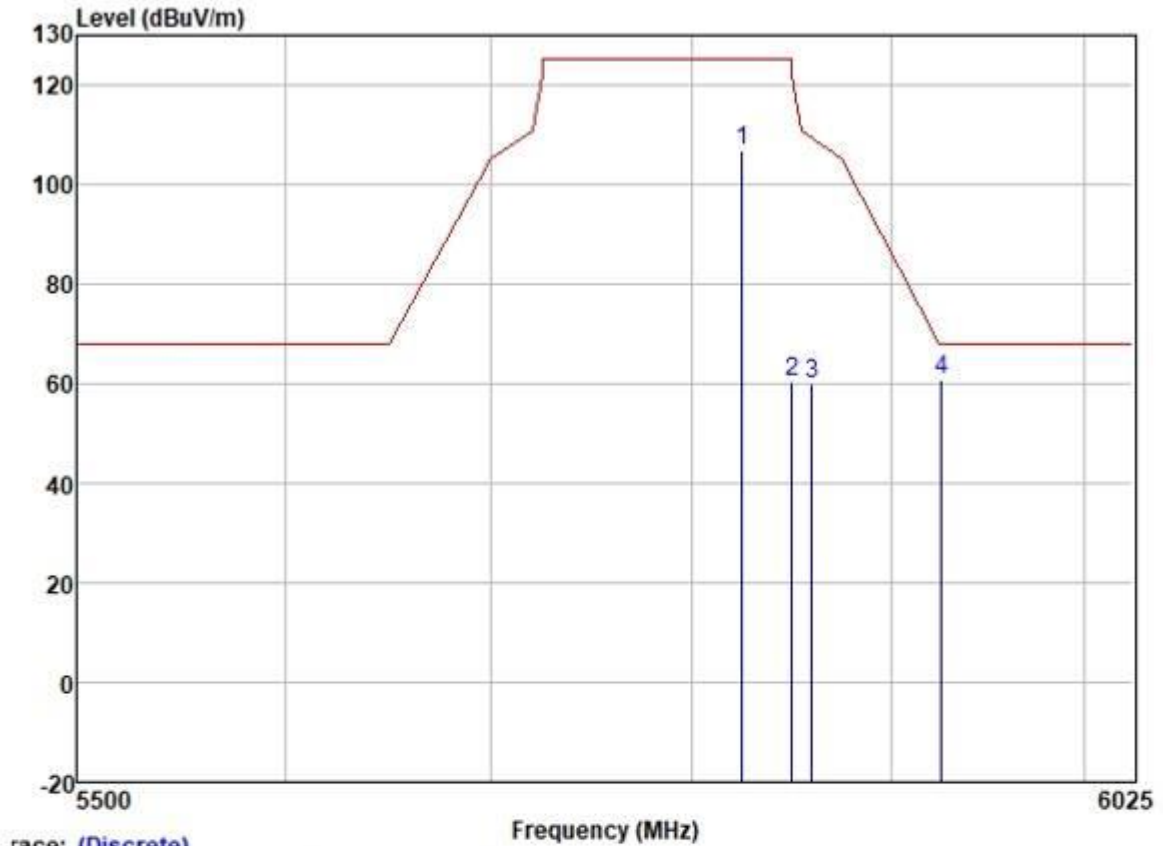
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	104.20	32.23	6.04	36.90	105.57	125.20	-19.63	HORIZONTAL Peak
2	5850.000	59.40	32.25	6.00	36.90	60.75	122.20	-61.45	HORIZONTAL Peak
3	5860.000	60.00	32.27	5.96	36.90	61.33	109.40	-48.07	HORIZONTAL Peak
4	5926.966	59.49	32.34	6.00	36.90	60.93	68.20	-7.27	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



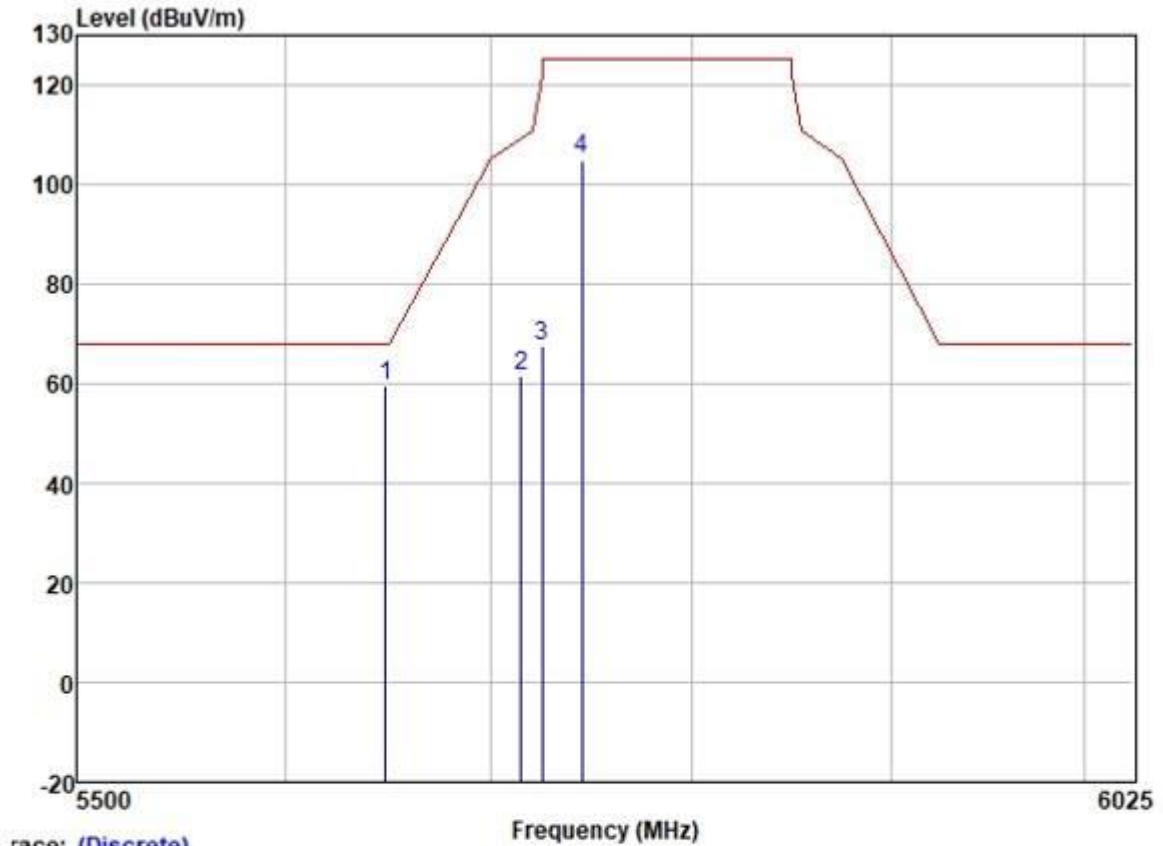
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5825.000	105.39	32.23	6.04	36.90	106.76	125.20	-18.44	VERTICAL Peak
2	5850.000	59.07	32.25	6.00	36.90	60.42	122.20	-61.78	VERTICAL Peak
3	5860.000	58.76	32.27	5.96	36.90	60.09	109.40	-49.31	VERTICAL Peak
4	5926.340	59.54	32.34	6.00	36.90	60.98	68.20	-7.22	VERTICAL Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



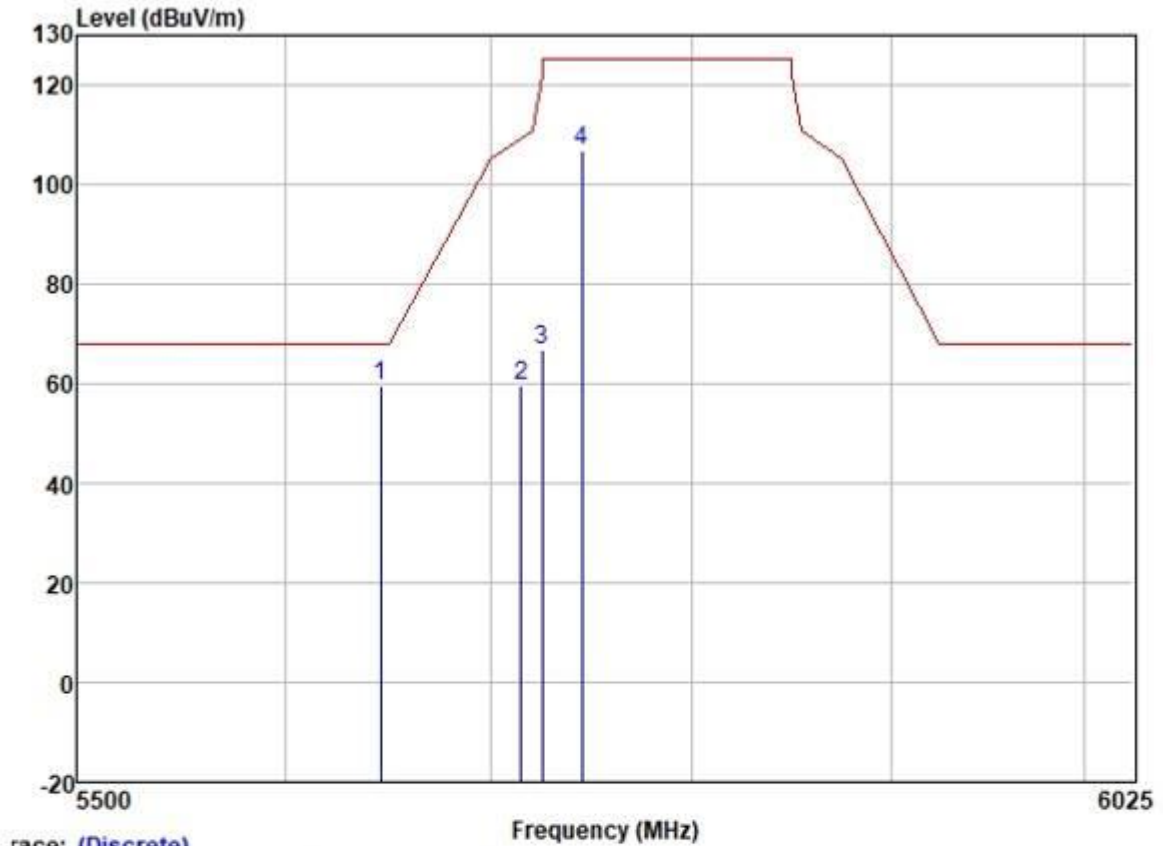
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5648.165	58.22	31.95	6.35	36.89	59.63	68.20	-8.57	HORIZONTAL Peak
2	5715.000	60.31	32.04	6.33	36.89	61.79	109.40	-47.61	HORIZONTAL Peak
3	5725.000	66.06	32.07	6.25	36.89	67.49	122.20	-54.71	HORIZONTAL Peak
4	5745.000	103.59	32.10	6.20	36.89	105.00	125.20	-20.20	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



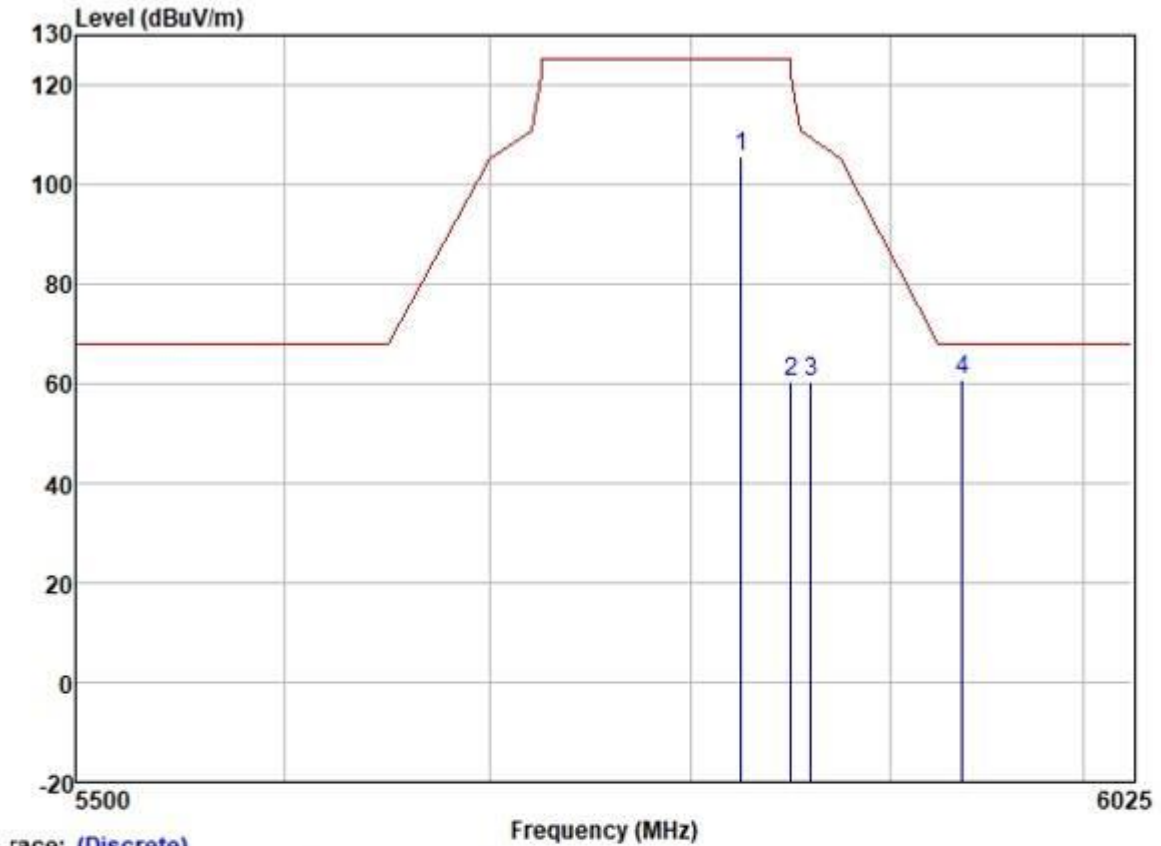
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5645.950	58.37	31.95	6.35	36.89	59.78	68.20	-8.42	VERTICAL Peak
2	5715.000	58.01	32.04	6.33	36.89	59.49	109.40	-49.91	VERTICAL Peak
3	5725.000	65.39	32.07	6.25	36.89	66.82	122.20	-55.38	VERTICAL Peak
4	5745.000	105.20	32.10	6.20	36.89	106.61	125.20	-18.59	VERTICAL Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

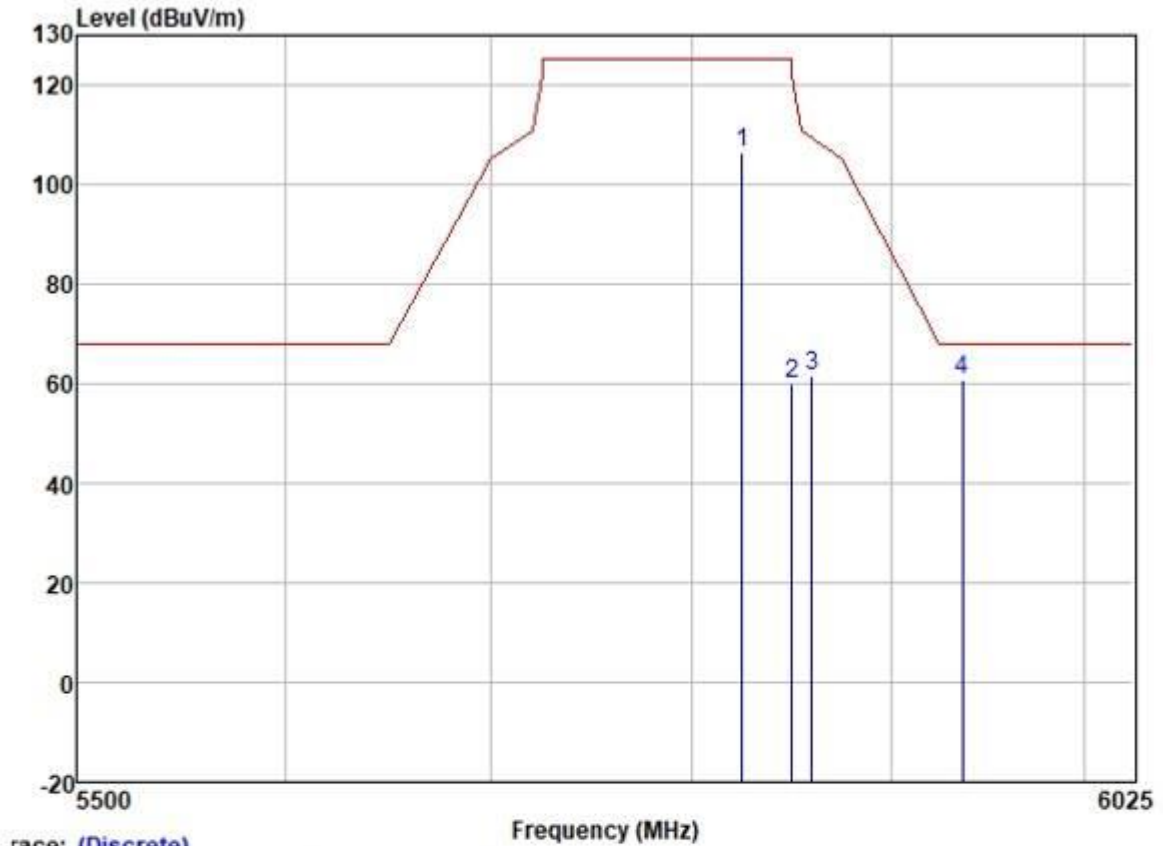
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	104.18	32.23	6.04	36.90	105.55	125.20	-19.65	HORIZONTAL Peak
2	5850.000	59.19	32.25	6.00	36.90	60.54	122.20	-61.66	HORIZONTAL Peak
3	5860.000	58.92	32.27	5.96	36.90	60.25	109.40	-49.15	HORIZONTAL Peak
4	5937.152	59.51	32.34	6.00	36.90	60.95	68.20	-7.25	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



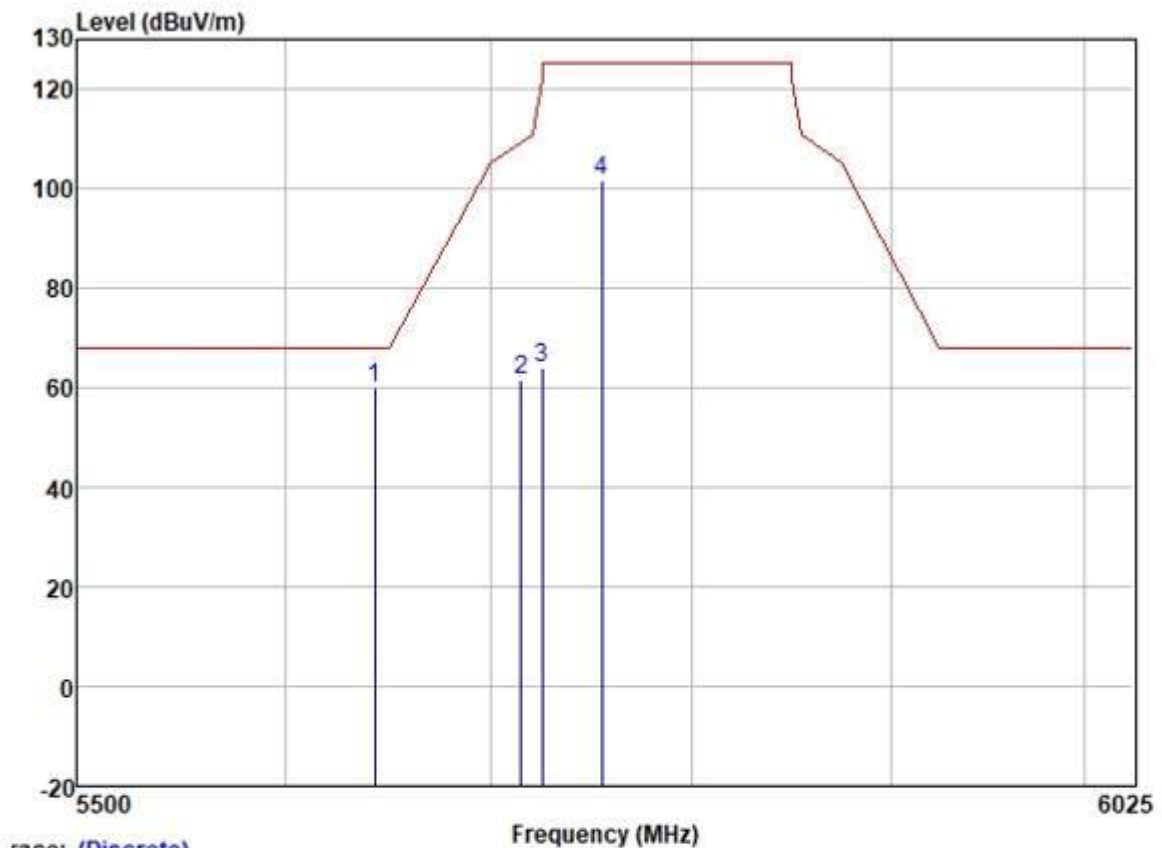
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5825.000	105.21	32.23	6.04	36.90	106.58	125.20	-18.62	VERTICAL	Peak
2	5850.000	58.68	32.25	6.00	36.90	60.03	122.20	-62.17	VERTICAL	Peak
3	5860.000	60.23	32.27	5.96	36.90	61.56	109.40	-47.84	VERTICAL	Peak
4	5936.996	59.44	32.34	6.00	36.90	60.88	68.20	-7.32	VERTICAL	Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



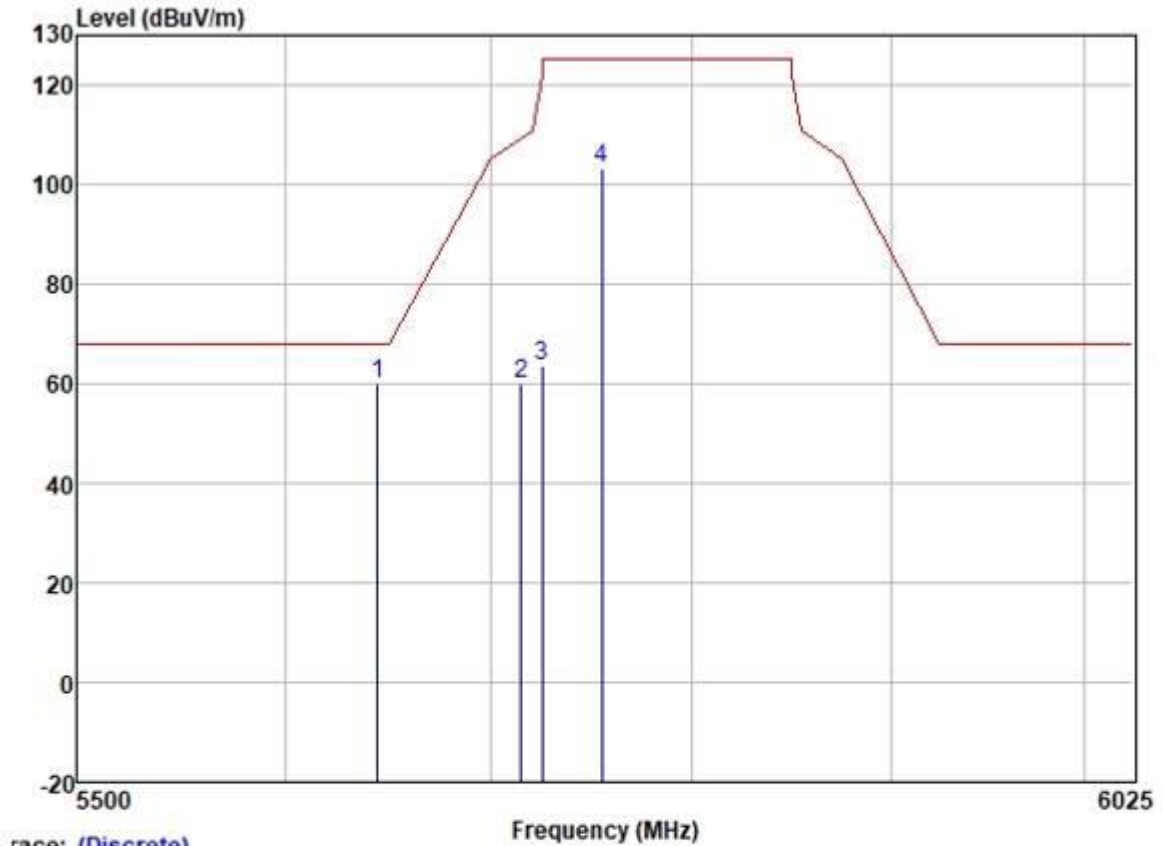
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5643.212	58.41	31.95	6.35	36.89	59.82	68.20	-8.38	HORIZONTAL Peak
2	5715.000	60.16	32.04	6.33	36.89	61.64	109.40	-47.76	HORIZONTAL Peak
3	5725.000	62.53	32.07	6.25	36.89	63.96	122.20	-58.24	HORIZONTAL Peak
4	5755.000	100.37	32.10	6.20	36.89	101.78	125.20	-23.42	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

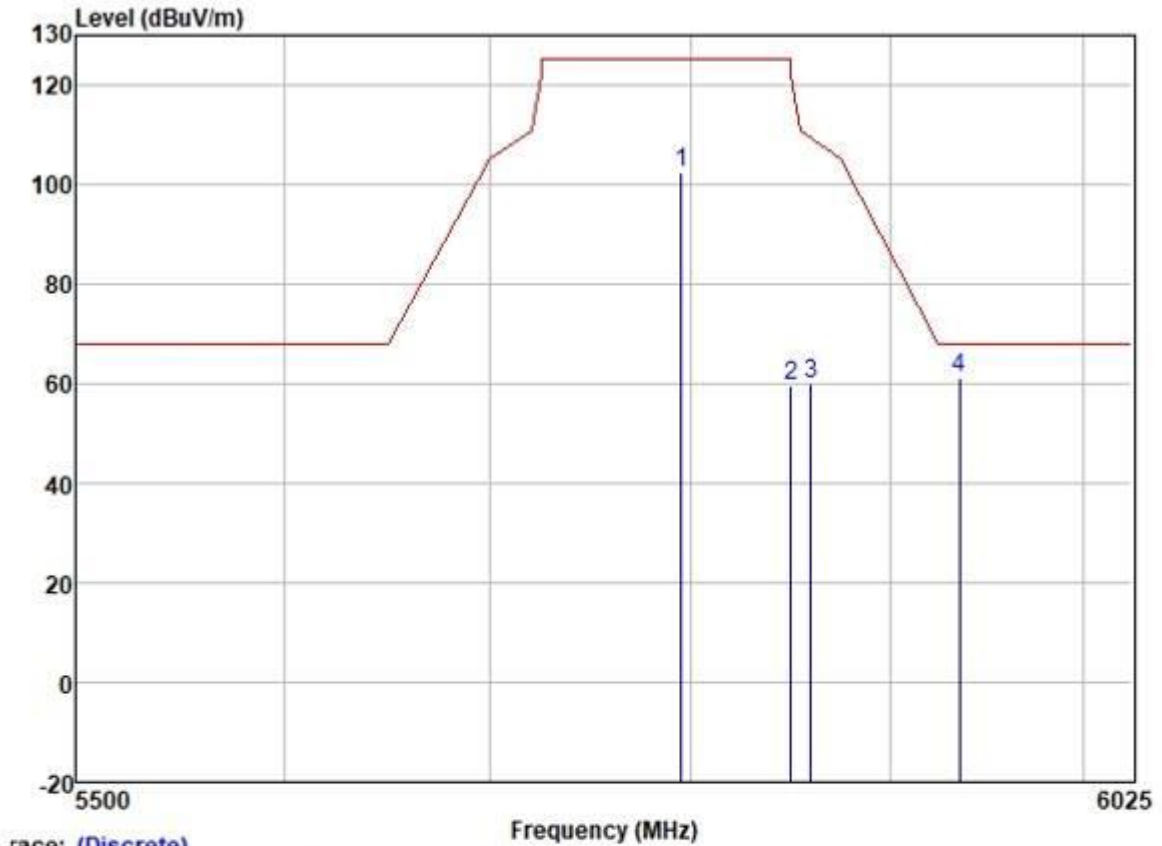
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5644.589	58.74	31.95	6.35	36.89	60.15	68.20	-8.05	VERTICAL Peak
2	5715.000	58.53	32.04	6.33	36.89	60.01	109.40	-49.39	VERTICAL Peak
3	5725.000	62.26	32.07	6.25	36.89	63.69	122.20	-58.51	VERTICAL Peak
4	5755.000	101.74	32.10	6.20	36.89	103.15	125.20	-22.05	VERTICAL Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



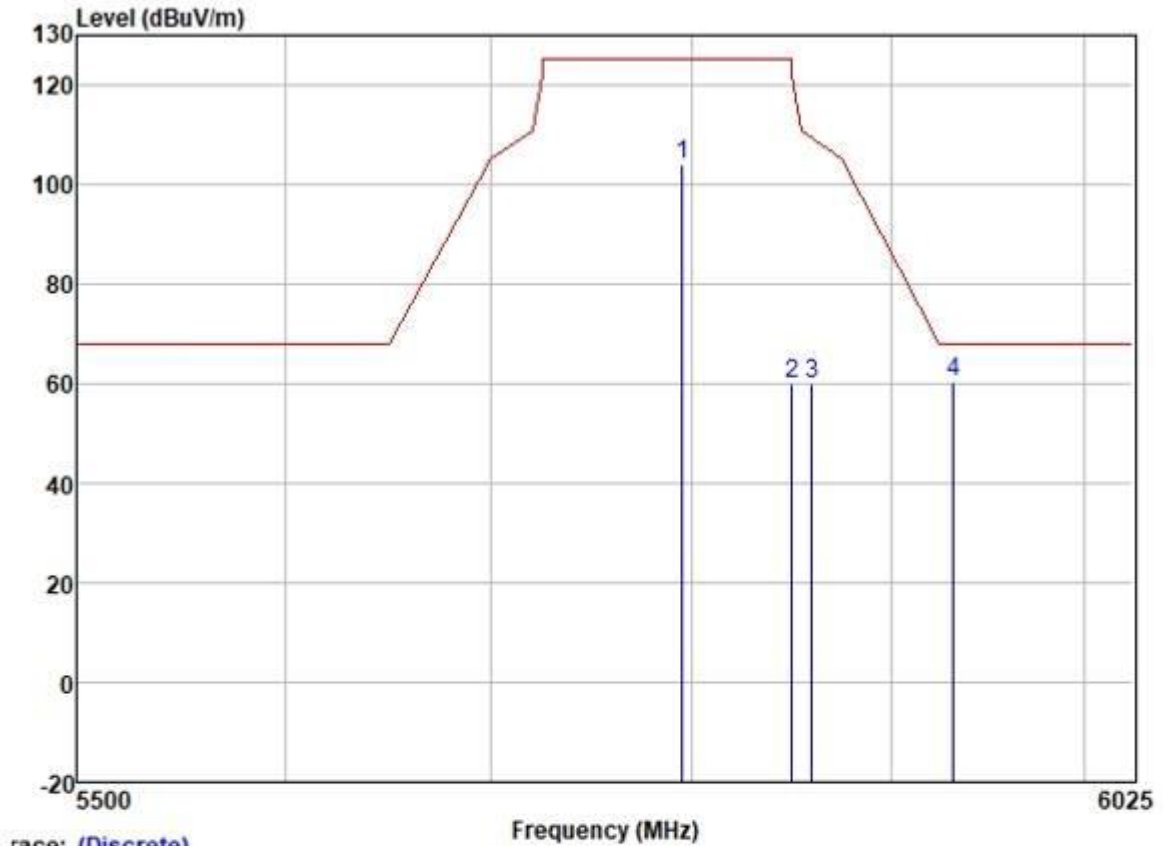
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	100.86	32.19	6.10	36.89	102.26	125.20	-22.94	HORIZONTAL Peak
2	5850.000	58.30	32.25	6.00	36.90	59.65	122.20	-62.55	HORIZONTAL Peak
3	5860.000	58.86	32.27	5.96	36.90	60.19	109.40	-49.21	HORIZONTAL Peak
4	5935.649	59.82	32.34	6.00	36.90	61.26	68.20	-6.94	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



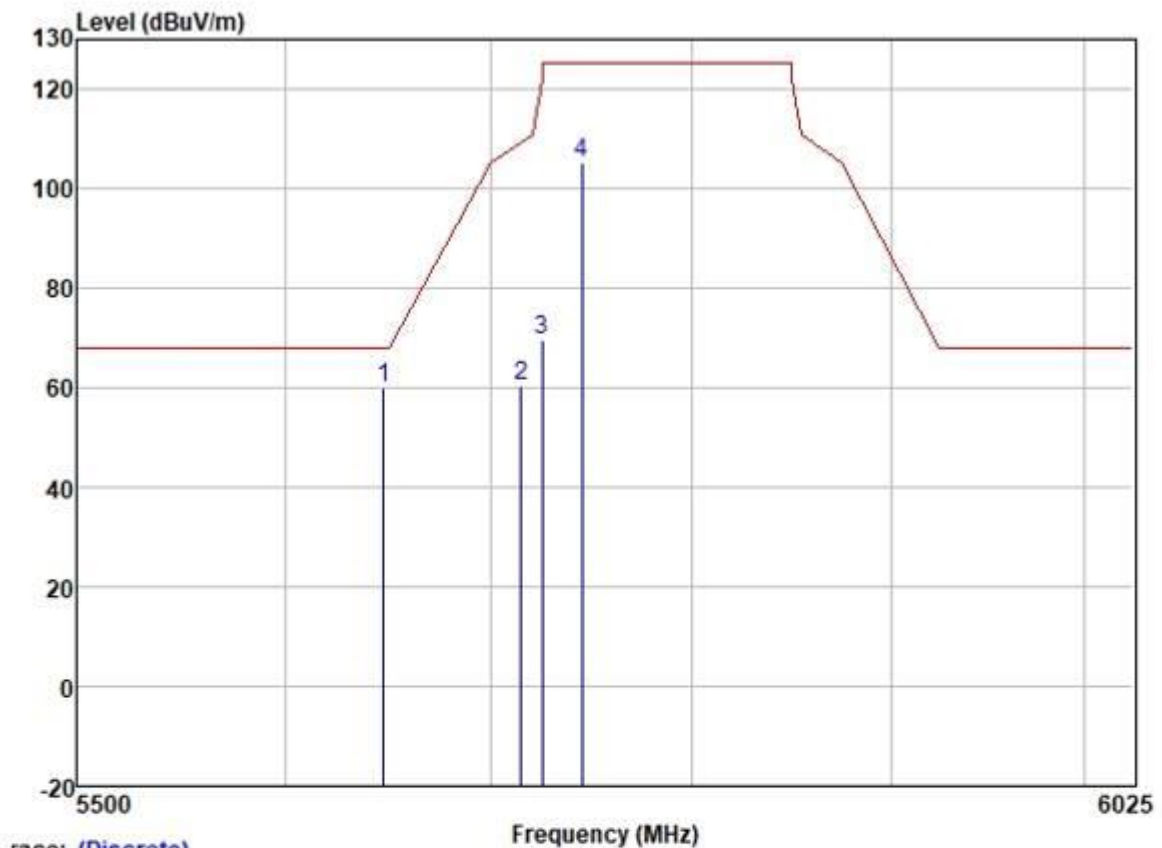
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5795.000	102.77	32.19	6.10	36.89	104.17	125.20	-21.03	VERTICAL	Peak
2	5850.000	58.56	32.25	6.00	36.90	59.91	122.20	-62.29	VERTICAL	Peak
3	5860.000	58.75	32.27	5.96	36.90	60.08	109.40	-49.32	VERTICAL	Peak
4	5932.197	59.08	32.34	6.00	36.90	60.52	68.20	-7.68	VERTICAL	Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



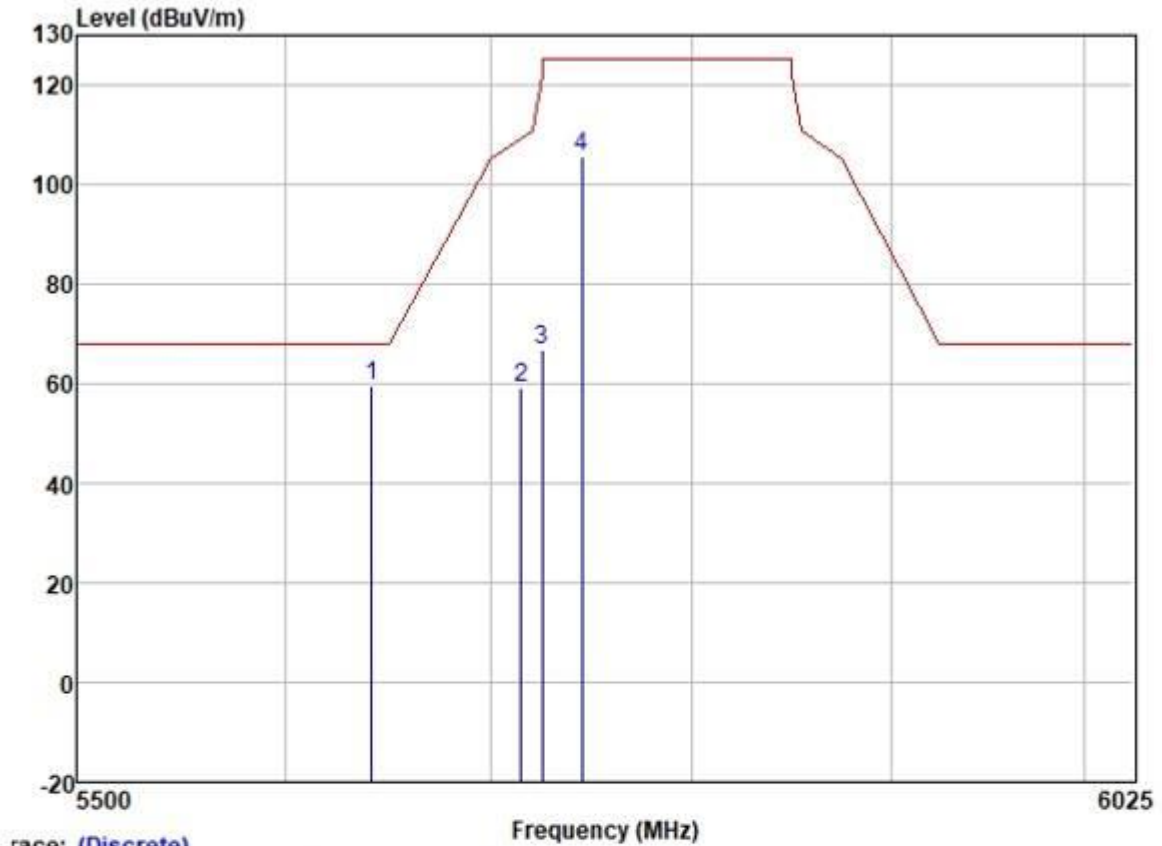
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5647.196	58.46	31.95	6.35	36.89	59.87	68.20	-8.33	HORIZONTAL Peak
2	5715.000	59.02	32.04	6.33	36.89	60.50	109.40	-48.90	HORIZONTAL Peak
3	5725.000	68.01	32.07	6.25	36.89	69.44	122.20	-52.76	HORIZONTAL Peak
4	5745.000	103.87	32.10	6.20	36.89	105.28	125.20	-19.92	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



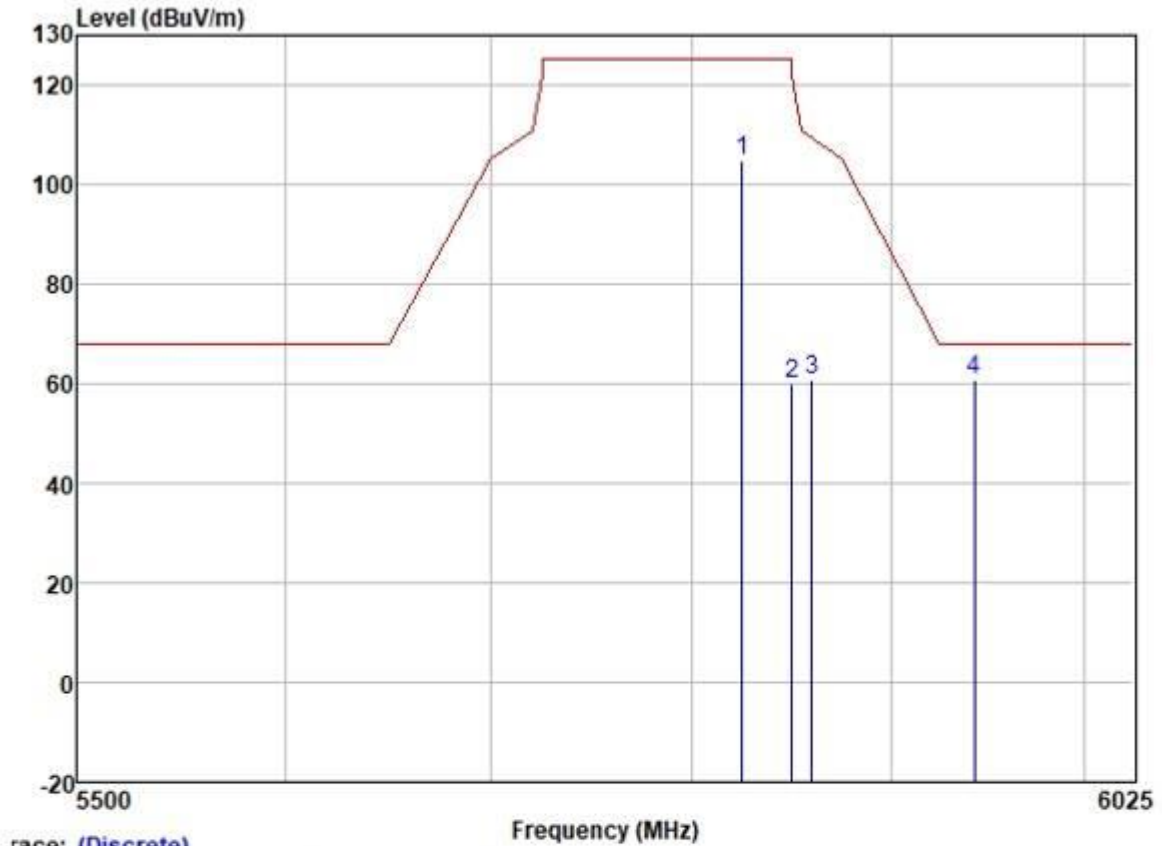
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5641.383	58.27	31.95	6.35	36.89	59.68	68.20	-8.52	VERTICAL	Peak
2	5715.000	57.87	32.04	6.33	36.89	59.35	109.40	-50.05	VERTICAL	Peak
3	5725.000	65.50	32.07	6.25	36.89	66.93	122.20	-55.27	VERTICAL	Peak
4	5745.000	104.37	32.10	6.20	36.89	105.78	125.20	-19.42	VERTICAL	Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



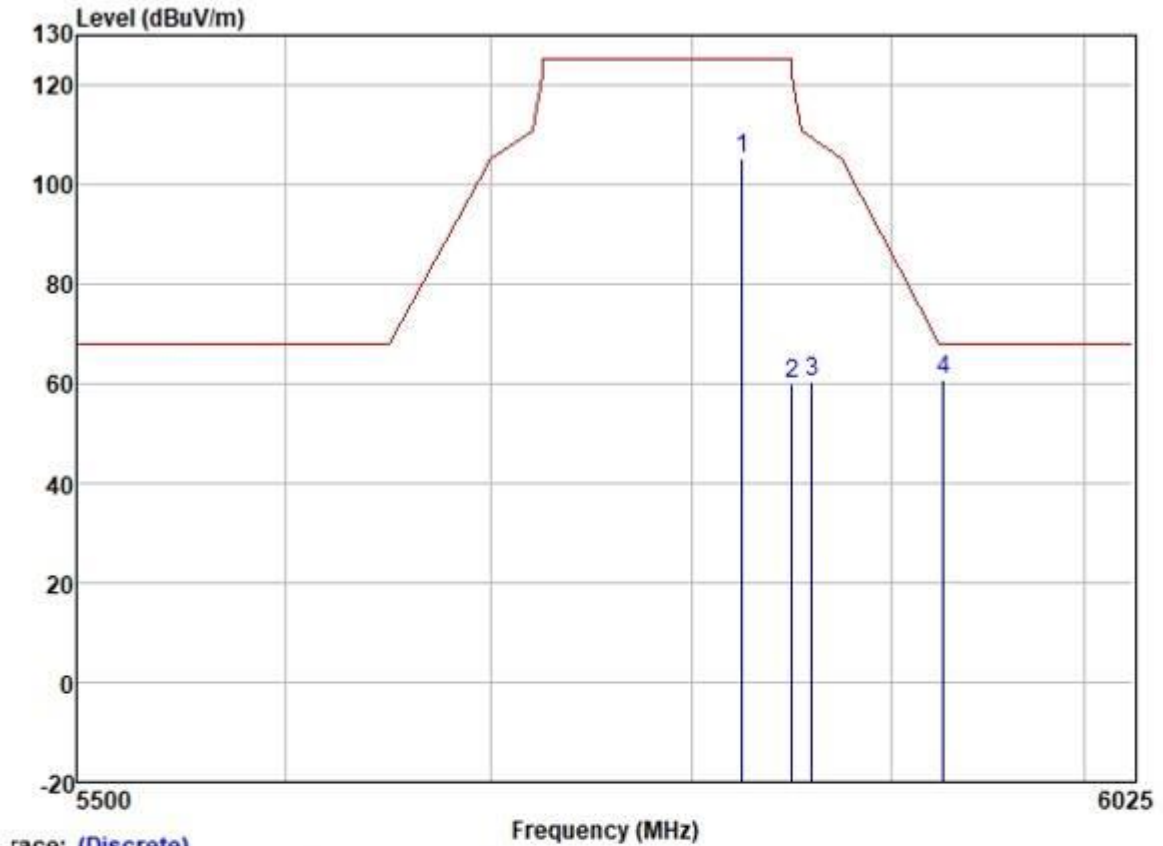
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5825.000	103.56	32.23	6.04	36.90	104.93	125.20	-20.27	HORIZONTAL Peak
2	5850.000	58.70	32.25	6.00	36.90	60.05	122.20	-62.15	HORIZONTAL Peak
3	5860.000	59.36	32.27	5.96	36.90	60.69	109.40	-48.71	HORIZONTAL Peak
4	5942.958	59.15	32.36	6.05	36.90	60.66	68.20	-7.54	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



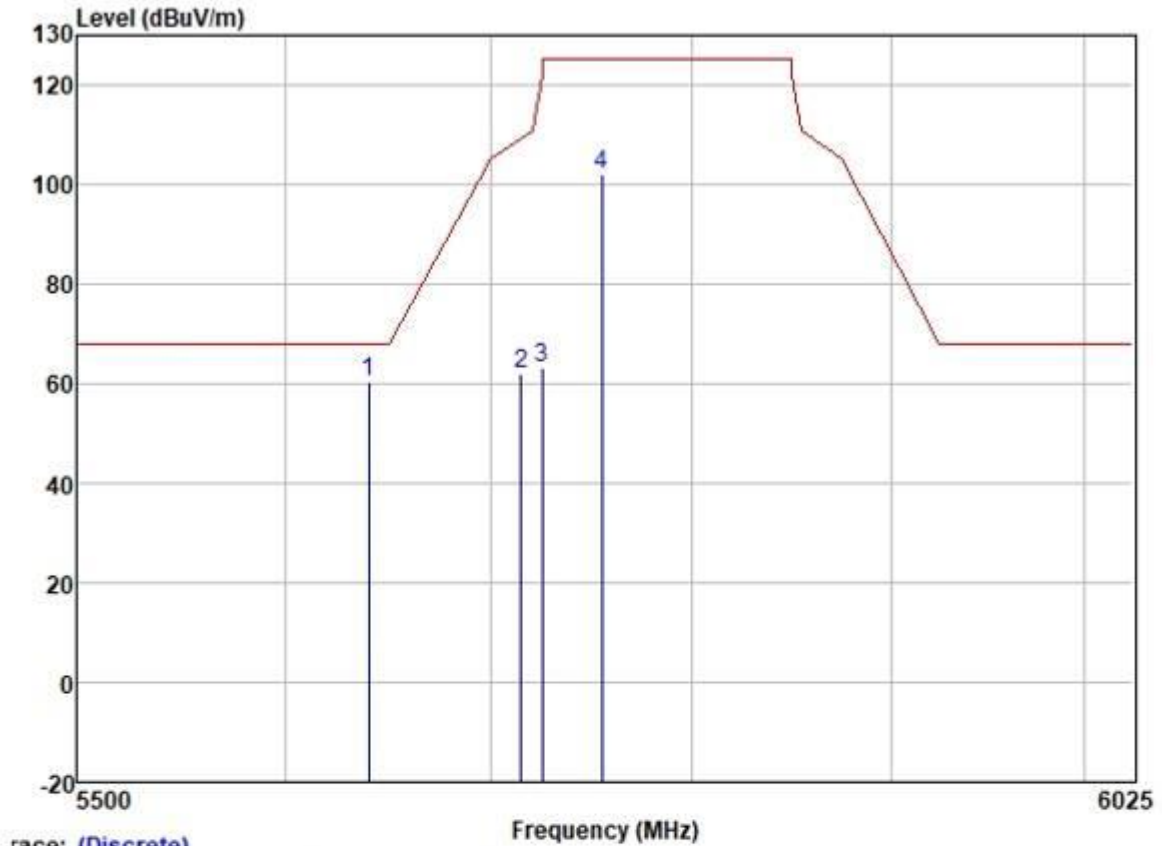
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5825.000	103.72	32.23	6.04	36.90	105.09	125.20	-20.11	VERTICAL	Peak
2	5850.000	58.73	32.25	6.00	36.90	60.08	122.20	-62.12	VERTICAL	Peak
3	5860.000	59.21	32.27	5.96	36.90	60.54	109.40	-48.86	VERTICAL	Peak
4	5927.279	59.42	32.34	6.00	36.90	60.86	68.20	-7.34	VERTICAL	Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

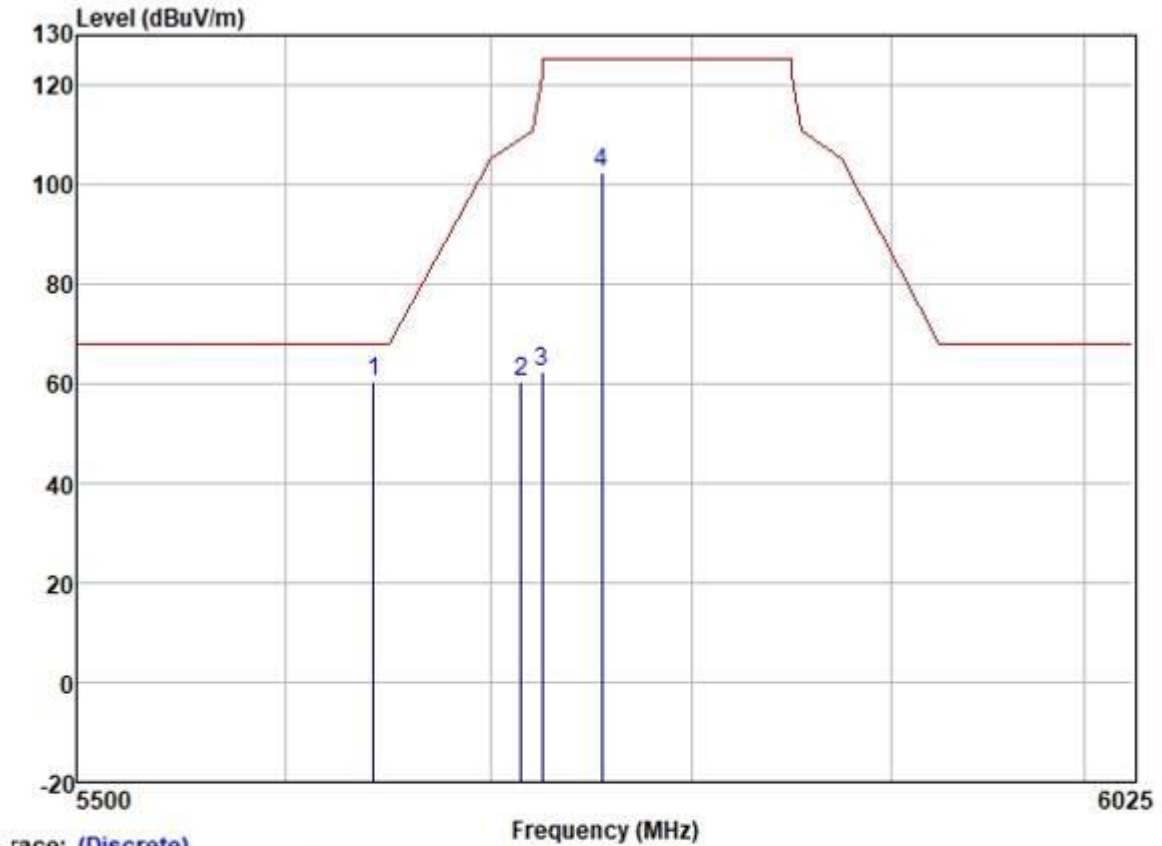
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5640.306	58.80	31.95	6.35	36.89	60.21	68.20	-7.99	HORIZONTAL Peak
2	5715.000	60.59	32.04	6.33	36.89	62.07	109.40	-47.33	HORIZONTAL Peak
3	5725.000	61.93	32.07	6.25	36.89	63.36	122.20	-58.84	HORIZONTAL Peak
4	5755.000	100.71	32.10	6.20	36.89	102.12	125.20	-23.08	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



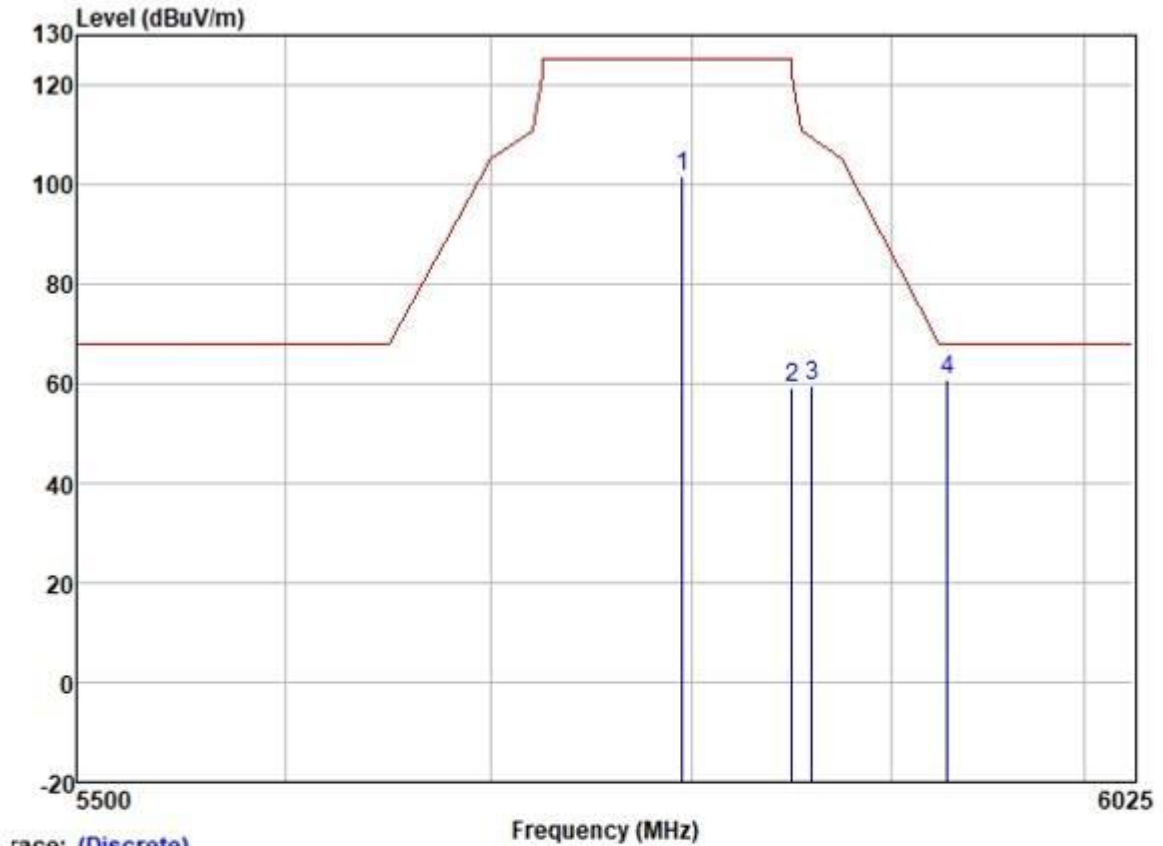
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5642.447	58.84	31.95	6.35	36.89	60.25	68.20	-7.95	VERTICAL Peak
2	5715.000	58.79	32.04	6.33	36.89	60.27	109.40	-49.13	VERTICAL Peak
3	5725.000	60.96	32.07	6.25	36.89	62.39	122.20	-59.81	VERTICAL Peak
4	5755.000	100.91	32.10	6.20	36.89	102.32	125.20	-22.88	VERTICAL Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



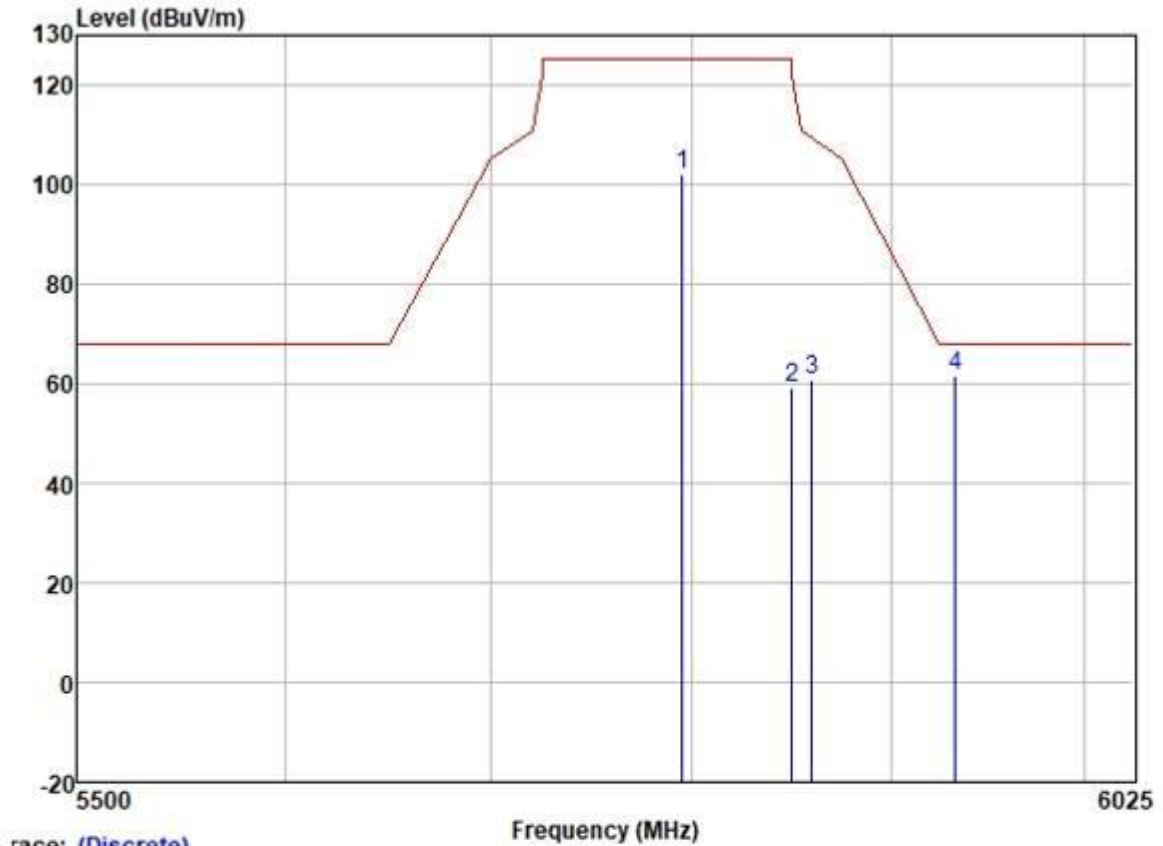
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	100.26	32.19	6.10	36.89	101.66	125.20	-23.54	HORIZONTAL Peak
2	5850.000	58.02	32.25	6.00	36.90	59.37	122.20	-62.83	HORIZONTAL Peak
3	5860.000	58.20	32.27	5.96	36.90	59.53	109.40	-49.87	HORIZONTAL Peak
4	5929.355	59.42	32.34	6.00	36.90	60.86	68.20	-7.34	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



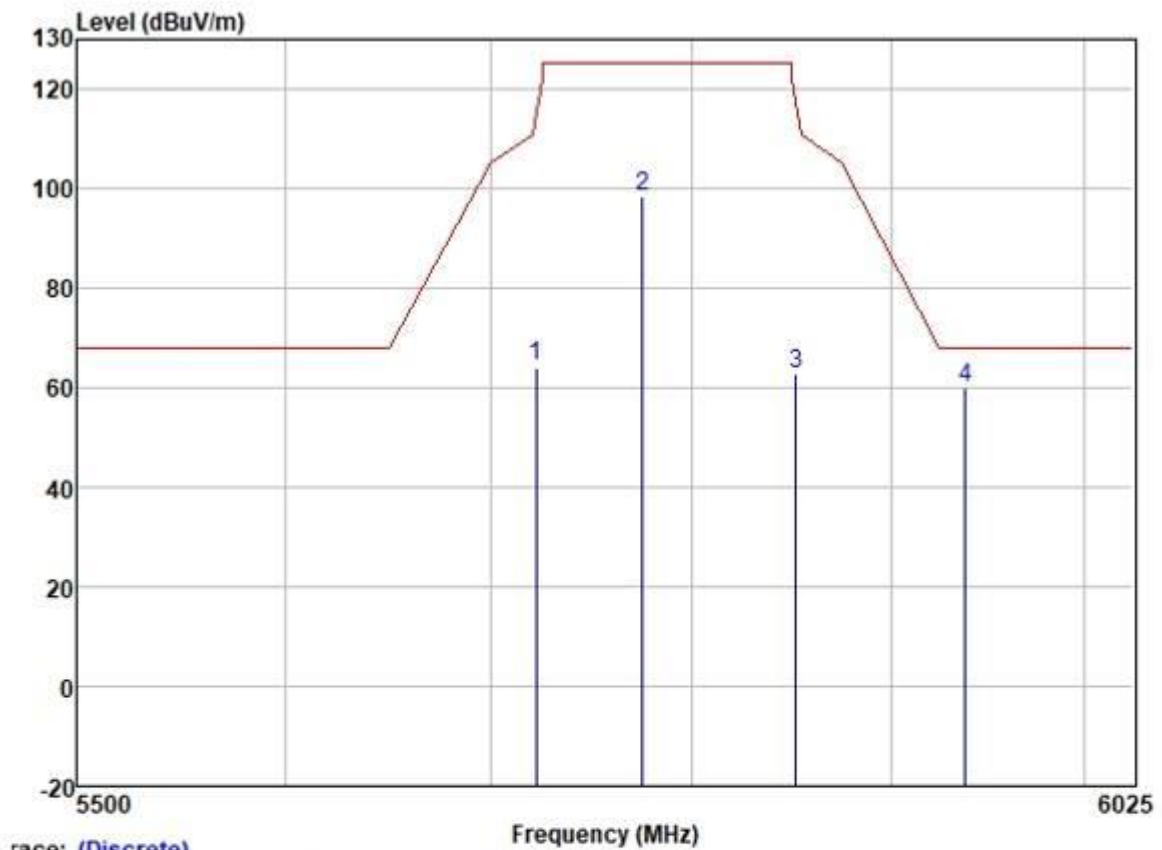
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5795.000	100.52	32.19	6.10	36.89	101.92	125.20	-23.28	VERTICAL	Peak
2	5850.000	58.02	32.25	6.00	36.90	59.37	122.20	-62.83	VERTICAL	Peak
3	5860.000	59.33	32.27	5.96	36.90	60.66	109.40	-48.74	VERTICAL	Peak
4	5933.415	60.08	32.34	6.00	36.90	61.52	68.20	-6.68	VERTICAL	Peak



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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

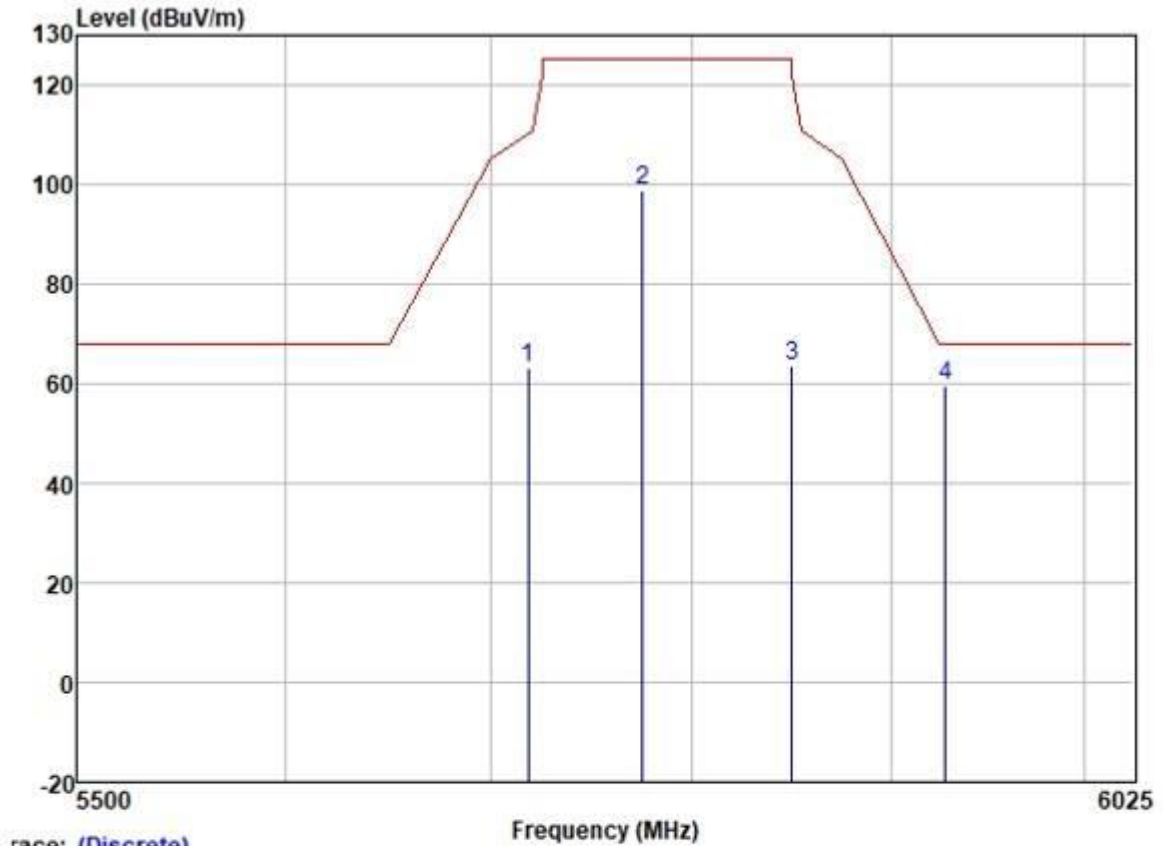
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5722.280	62.77	32.07	6.25	36.89	64.20	116.00	-51.80	HORIZONTAL Peak
2	5775.000	97.08	32.16	6.10	36.89	98.45	125.20	-26.75	HORIZONTAL Peak
3	5852.116	61.57	32.25	6.00	36.90	62.92	117.37	-54.45	HORIZONTAL Peak
4	5938.116	58.65	32.34	6.00	36.90	60.09	68.20	-8.11	HORIZONTAL Peak



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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5718.063	61.66	32.04	6.33	36.89	63.14	110.26	-47.12	VERTICAL	Peak
2	5775.000	97.54	32.16	6.10	36.89	98.91	125.20	-26.29	VERTICAL	Peak
3	5849.958	62.11	32.25	6.00	36.90	63.46	125.20	-61.74	VERTICAL	Peak
4	5928.117	58.35	32.34	6.00	36.90	59.79	68.20	-8.41	VERTICAL	Peak



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7.5 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 55.1 % RH Atmospheric Pressure: 1010 mbar

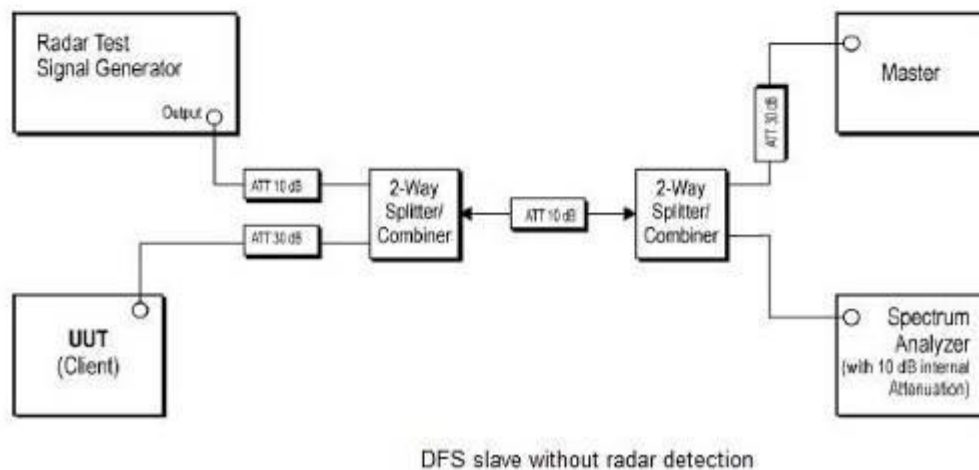
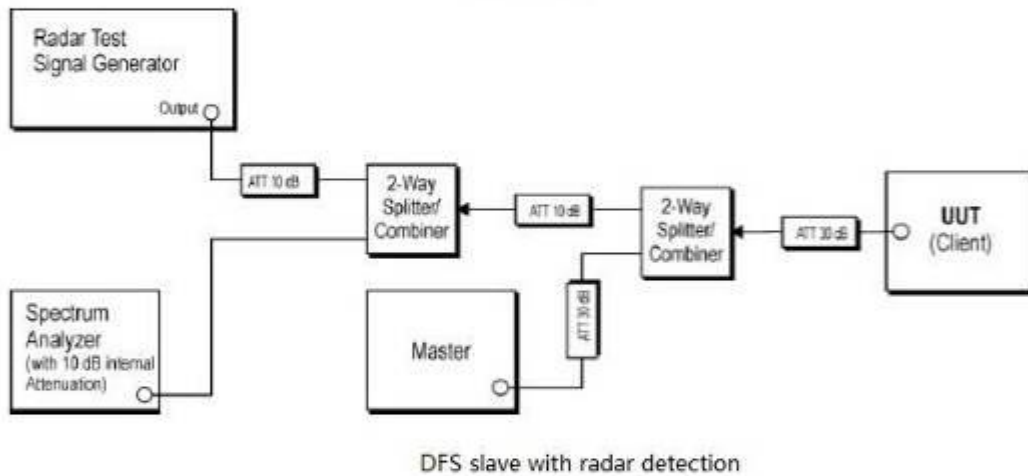
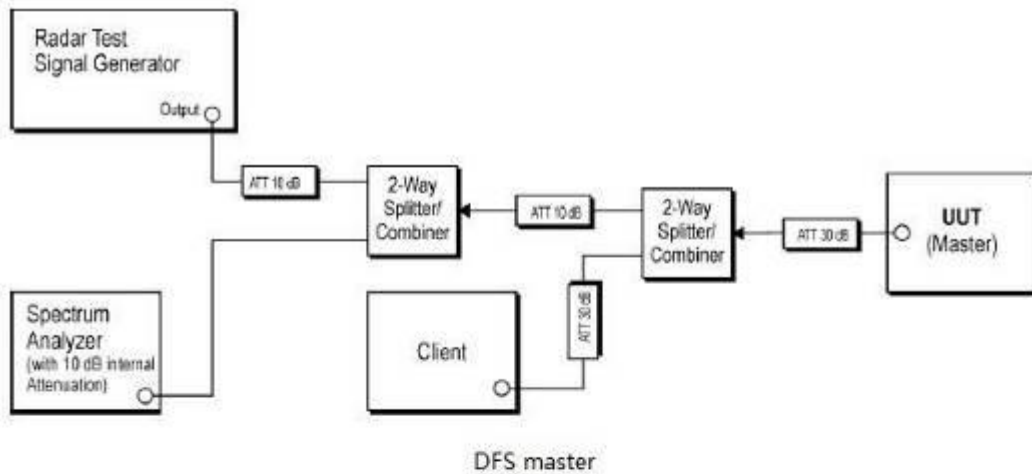
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	20	Normal operating_Keep the EUT communication with the companion device.



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7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 55.1 % RH Atmospheric Pressure: 1010 mbar

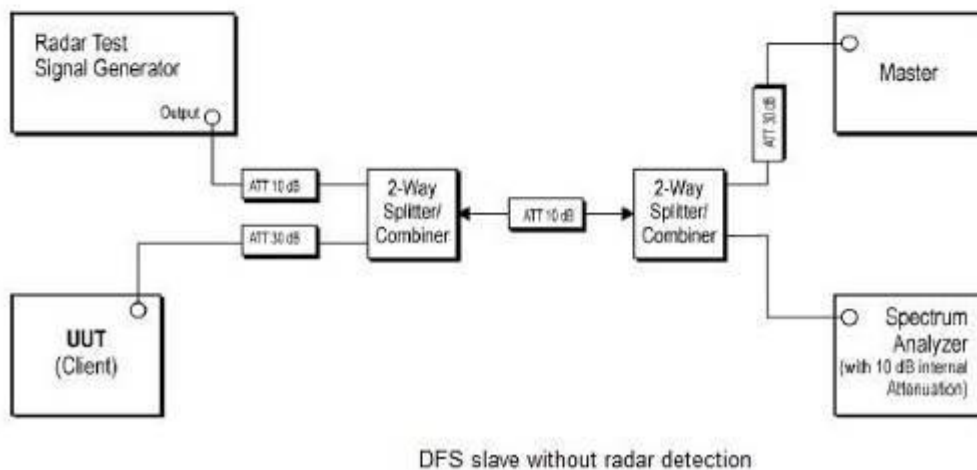
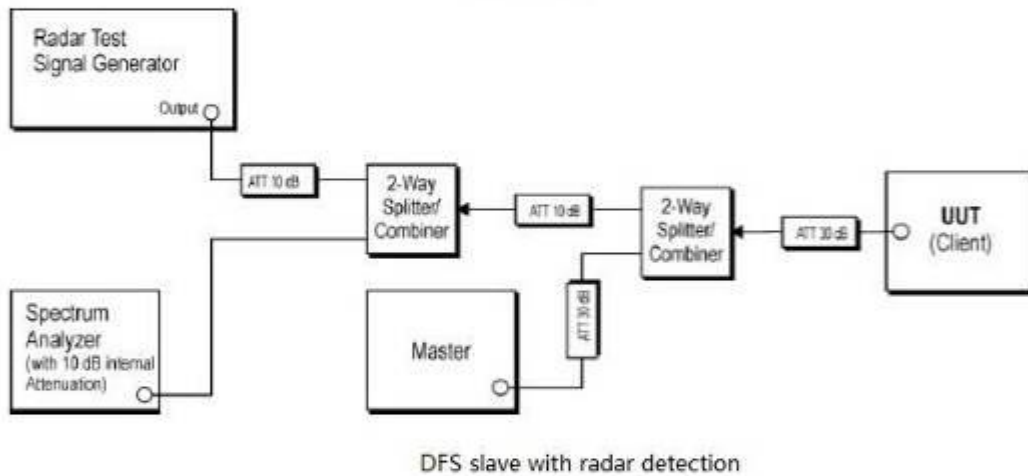
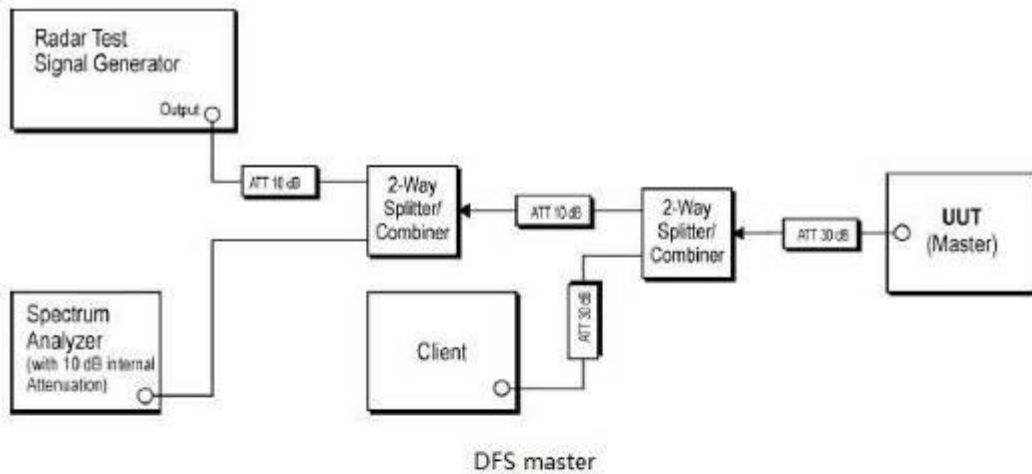
7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	20	Normal operating_Keep the EUT communication with the companion device.



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7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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7.7 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 55.1 % RH Atmospheric Pressure: 1010 mbar

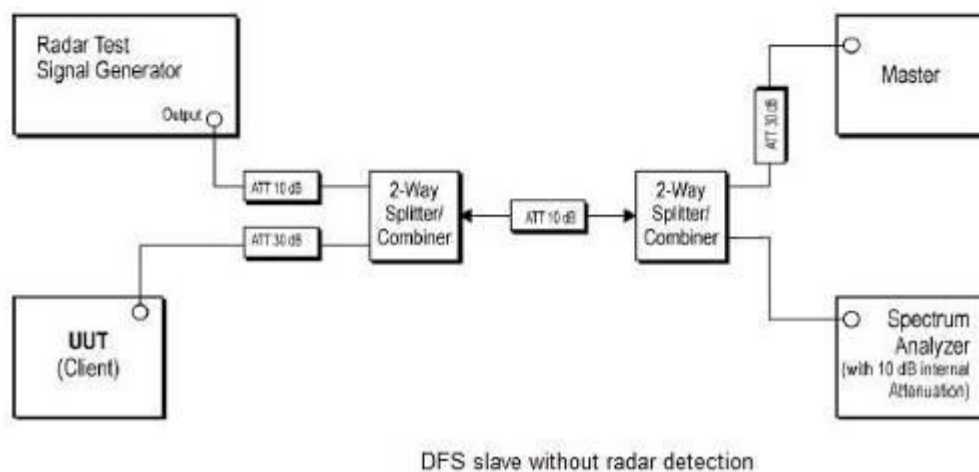
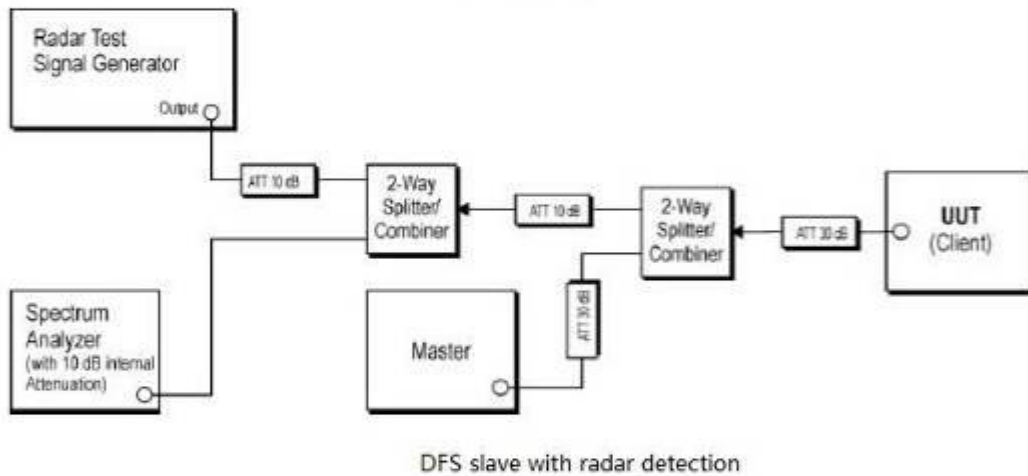
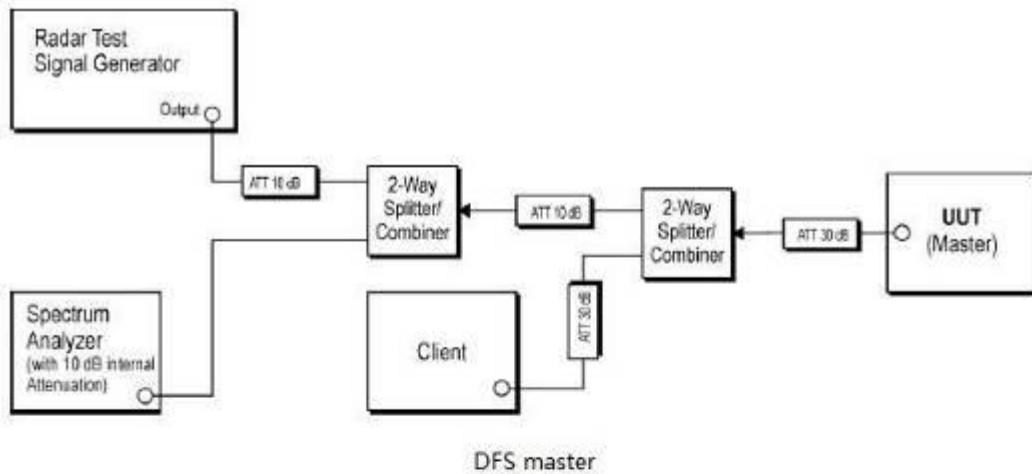
7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	20	Normal operating_Keep the EUT communication with the companion device.



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7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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8 Test Setup Photo

Conducted Emissions at AC Power Line (150kHz-30MHz)



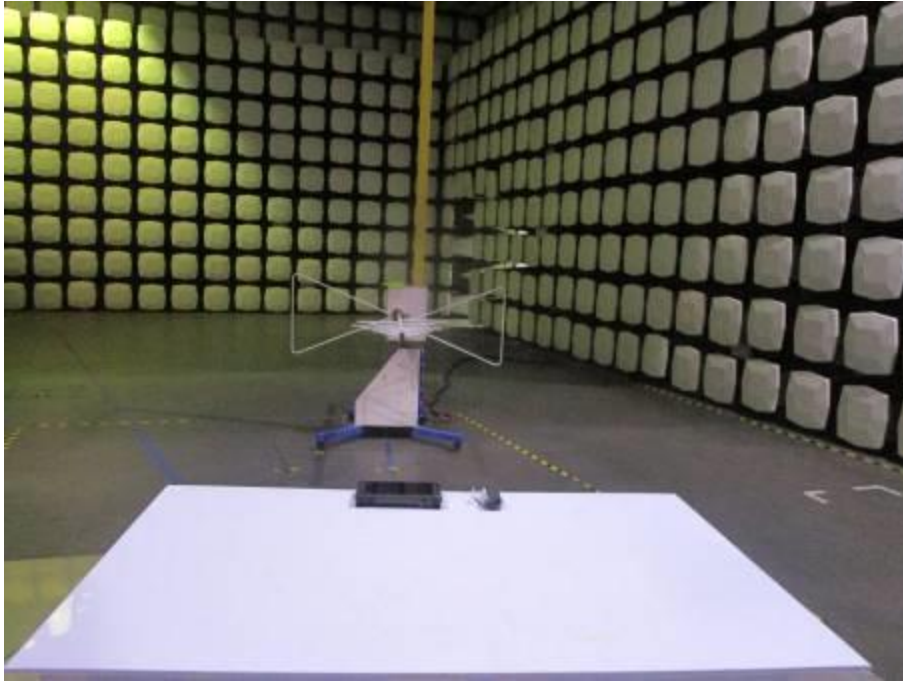
Radiated Emissions which fall in the restricted bands



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Radiated Emissions below 1GHz



Radiated Emissions above 1GHz



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DFS



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2108020806AT



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10 Appendix

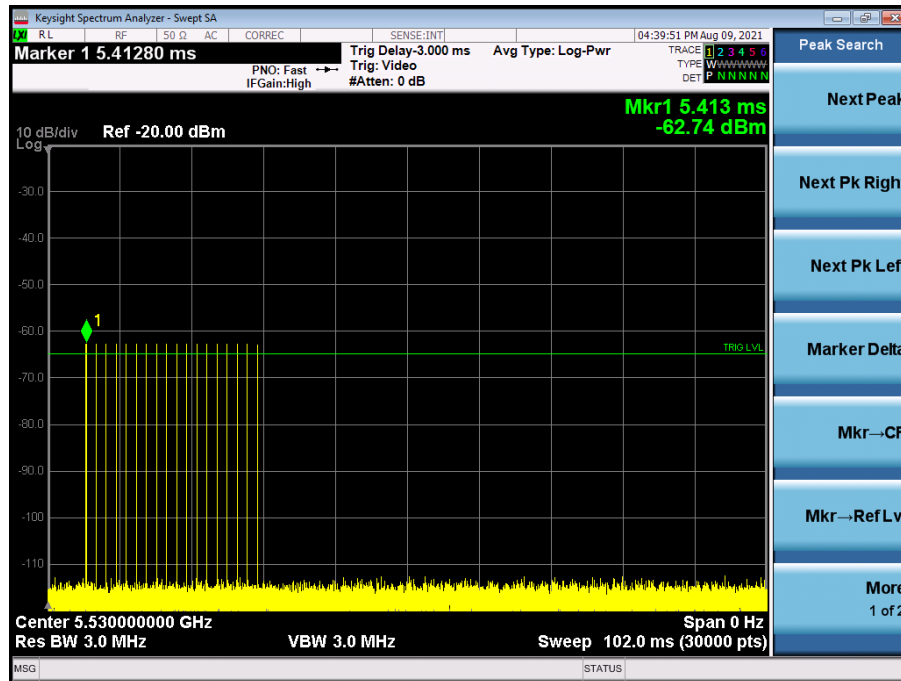
(DFS: Non-occupancy period; Channel Move Time; Channel Closing Transmission Time)

Note: All antennas type has been tested and we found the antenna 1 has the worst result.
 Only record the worst test result.

Test plots as follows:

Radar Waveform Calibration Result

Radar Type 0



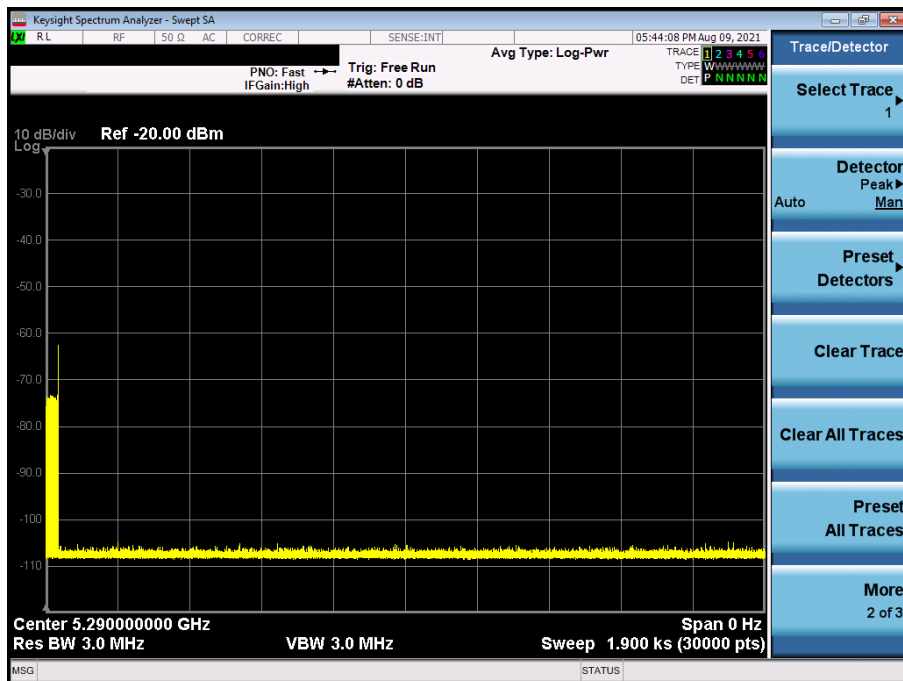
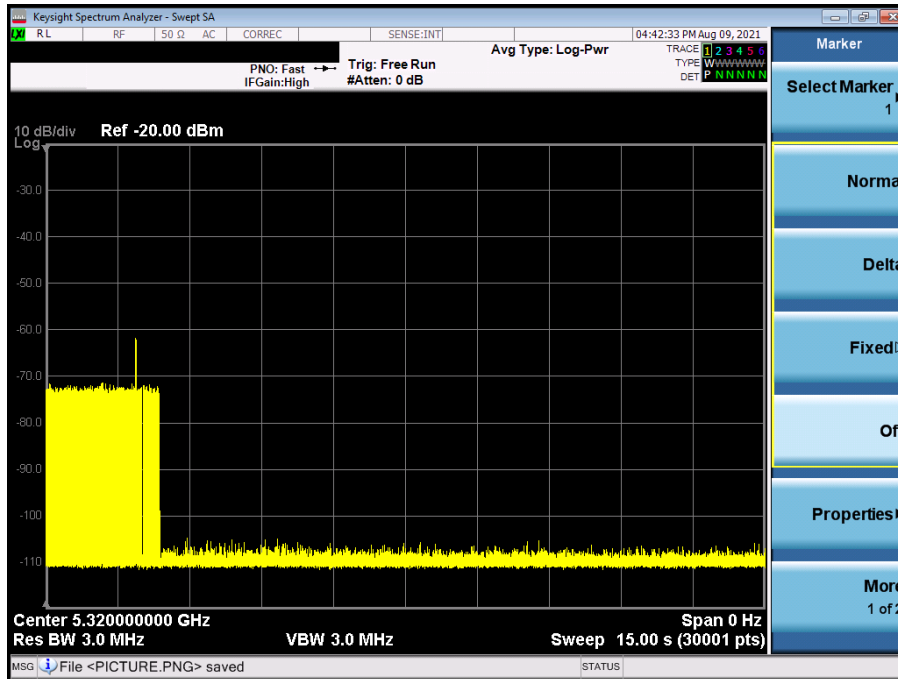
Test Data:

BW/Channel	Test Item	Test data	Limit	Results
80MHz/ 5530MHz	Non-occupancy period	Refer to test plots	>30 min	pass
	Channel Move Time	0.4789s	< 10 s	Pass
	Channel Closing Transmission Time	0.0884s	<60ms	Pass



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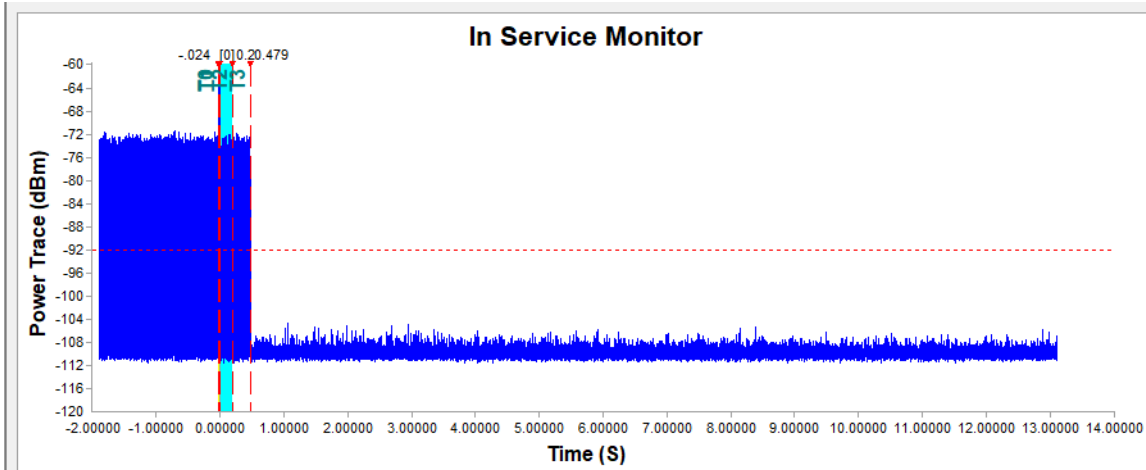
Test plots as follows:



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Time Index Info

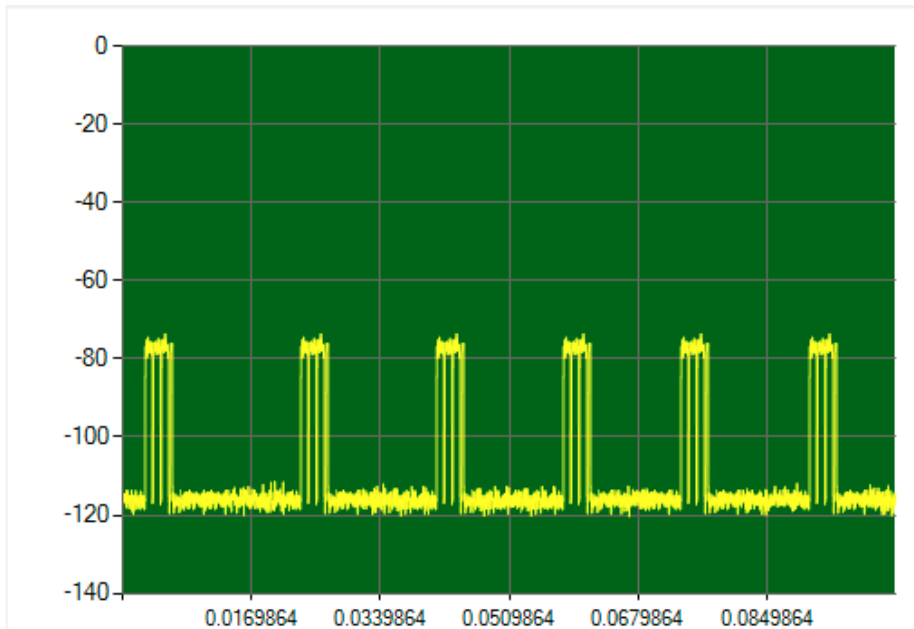
T0 : -0.0240 S (Radar Injection Start)
 T1 : 0.0000 S (Radar Injection Stop)
 T2 : 0.2000 S (200msec Interval)
 T3 : 0.4790 S (Channel Move Time)

Time Per Bin: 0.4999833

T2~T3 Bins Over Threshold:
 = 177 Bins

Channel Move Time: 0.478984 S

Channel Close Time: 0.0884971 S



Load Data

Off Set: dB

Duty Cycle: %

Calculate

- End of the Report -



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