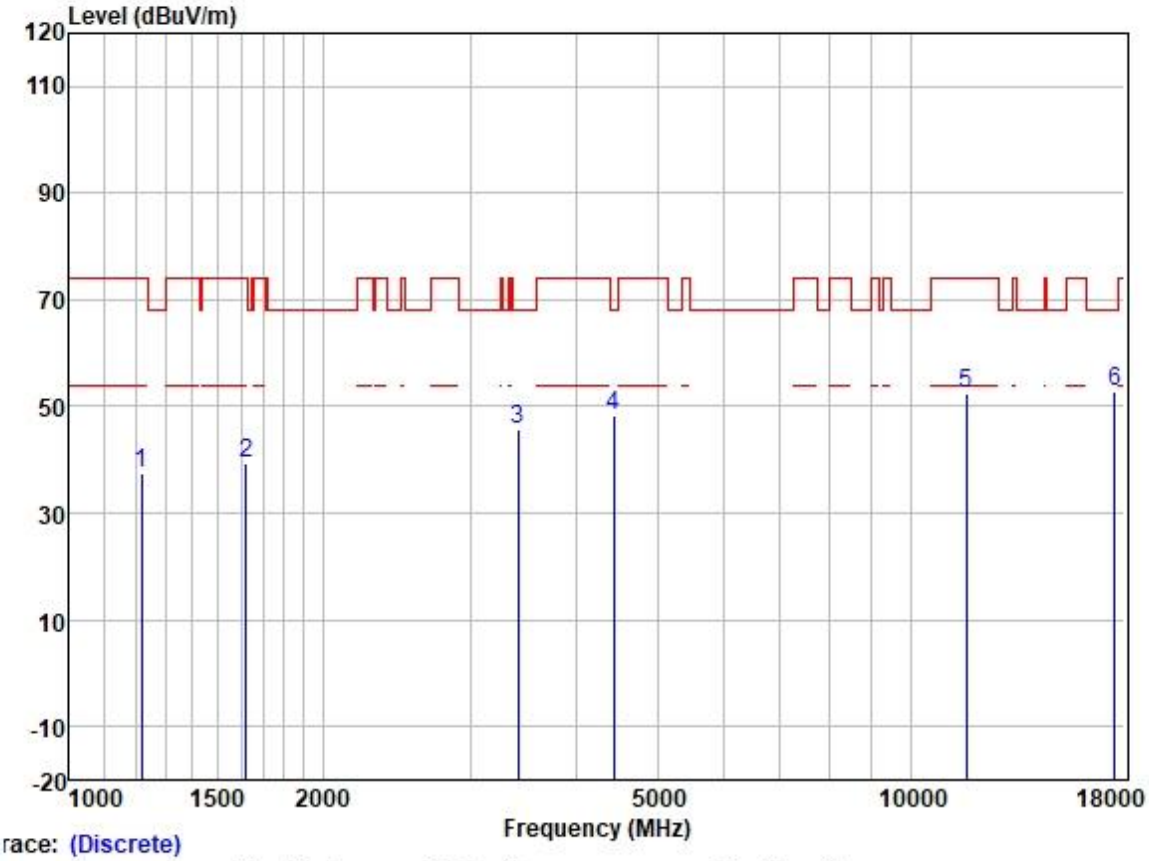
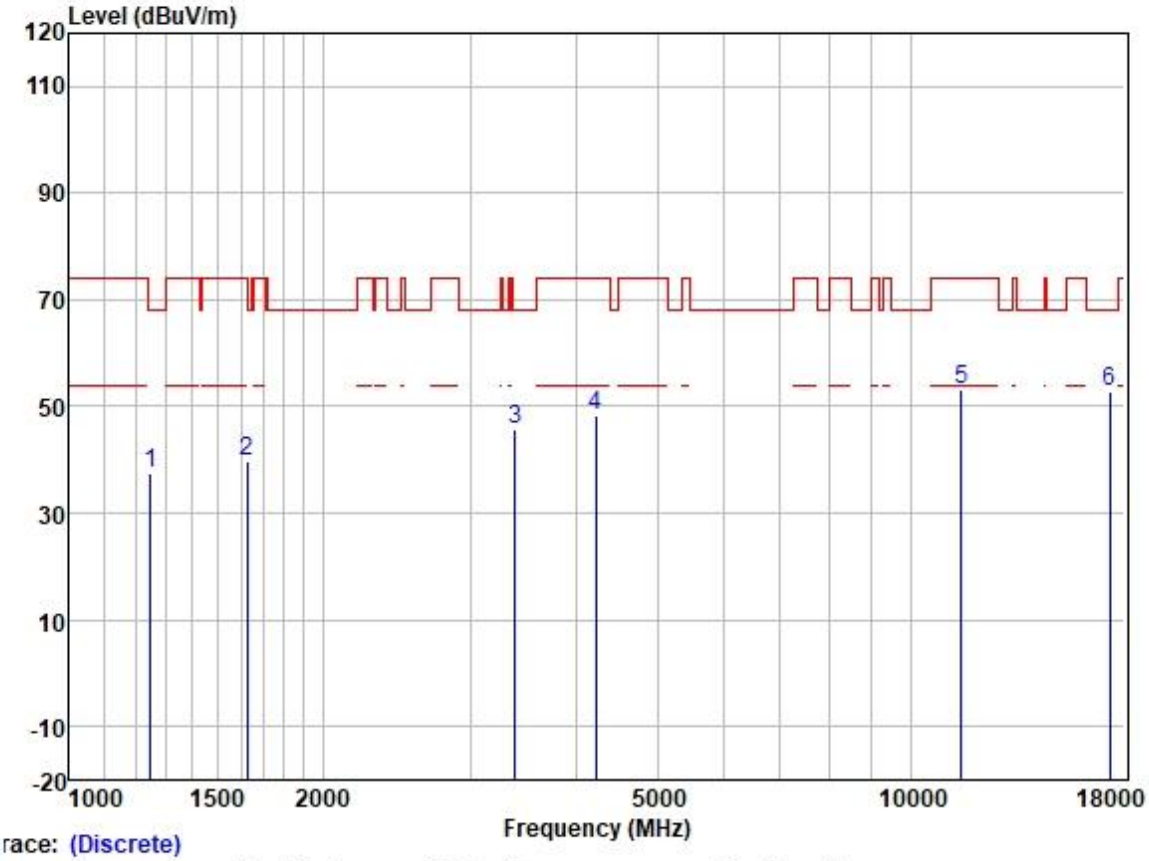
Test Mode: 25; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1217.190	48.63	24.79	2.32	38.37	37.37	74.00	-36.63	VERTICAL	Peak
2	1620.431	48.82	25.60	2.80	37.95	39.27	74.00	-34.73	VERTICAL	Peak
3	3415.787	49.58	28.85	4.13	36.97	45.59	68.20	-22.61	VERTICAL	Peak
4	4443.453	49.57	30.73	4.83	36.81	48.32	68.20	-19.88	VERTICAL	Peak
5	11650.000	41.43	39.65	8.35	37.13	52.30	74.00	-21.70	VERTICAL	Peak
6	17475.000	33.58	43.90	10.77	35.32	52.93	68.20	-15.27	VERTICAL	Peak

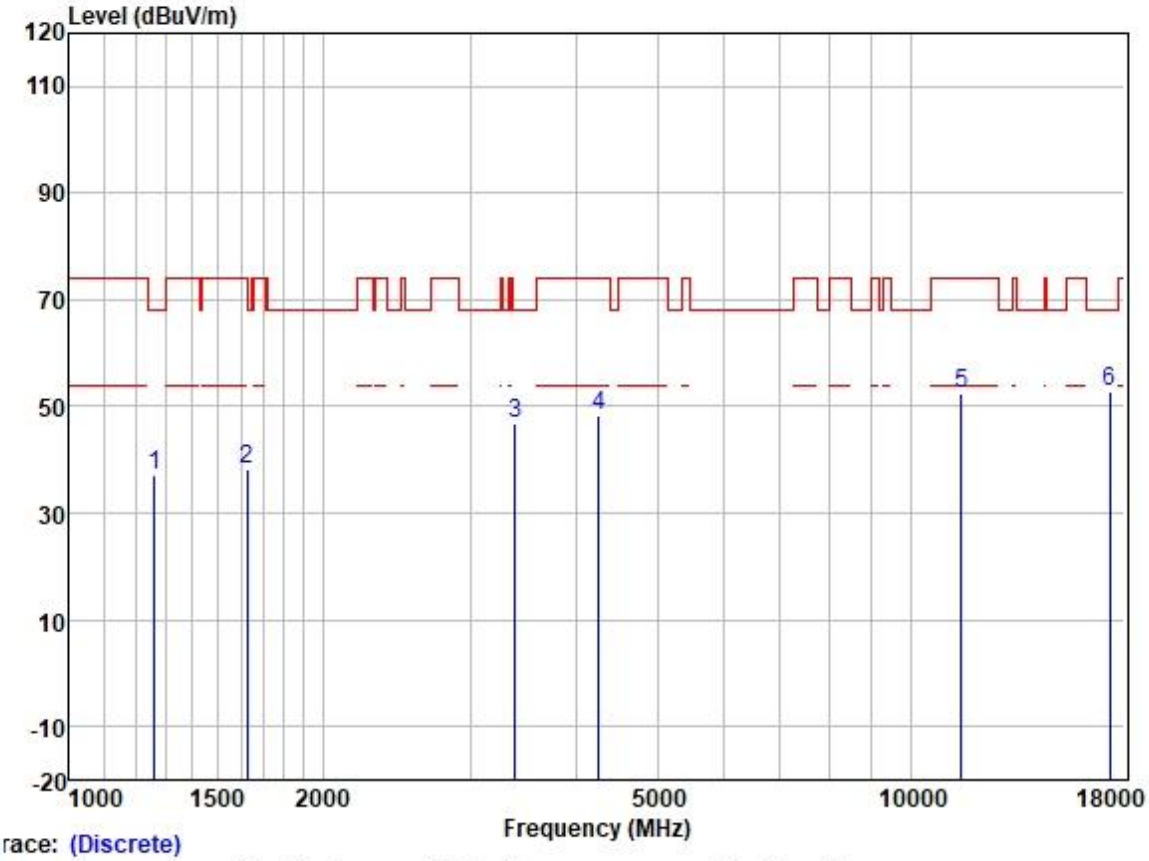
Test Mode: 25; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1249.269	48.48	25.02	2.34	38.35	37.49	68.20	-30.71	HORIZONTAL	Peak
2	1625.121	49.21	25.61	2.80	37.95	39.67	74.00	-34.33	HORIZONTAL	Peak
3	3386.297	49.74	28.83	4.10	36.99	45.68	68.20	-22.52	HORIZONTAL	Peak
4	4230.396	50.30	30.26	4.61	36.81	48.36	74.00	-25.64	HORIZONTAL	Peak
5	11490.000	41.87	39.90	8.41	37.15	53.03	74.00	-20.97	HORIZONTAL	Peak
6	17235.000	34.97	43.01	10.08	35.33	52.73	68.20	-15.47	HORIZONTAL	Peak

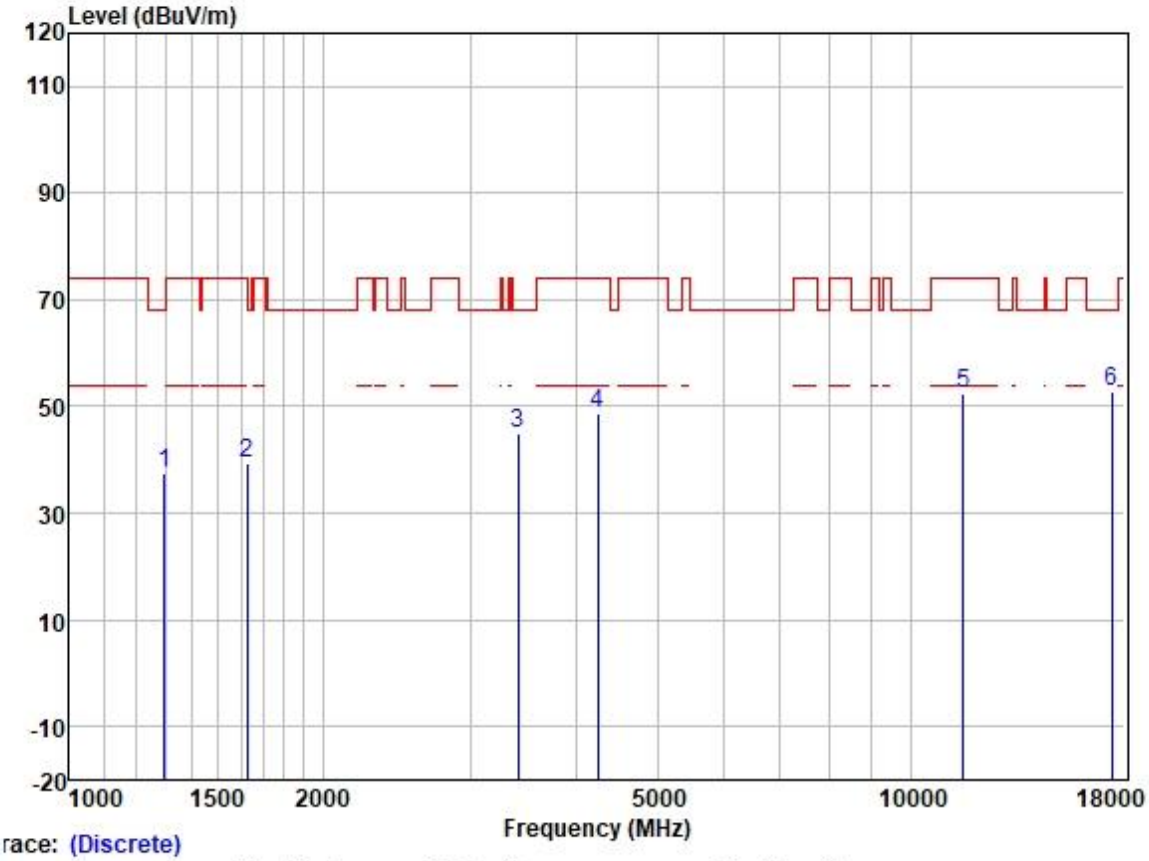
Test Mode: 25; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1263.796	48.07	25.08	2.42	38.33	37.24	68.20	-30.96	VERTICAL	Peak
2	1625.121	47.92	25.61	2.80	37.95	38.38	74.00	-35.62	VERTICAL	Peak
3	3386.297	50.90	28.83	4.10	36.99	46.84	68.20	-21.36	VERTICAL	Peak
4	4254.921	50.18	30.34	4.62	36.81	48.33	74.00	-25.67	VERTICAL	Peak
5	11490.000	41.30	39.90	8.41	37.15	52.46	74.00	-21.54	VERTICAL	Peak
6	17235.000	34.88	43.01	10.08	35.33	52.64	68.20	-15.56	VERTICAL	Peak

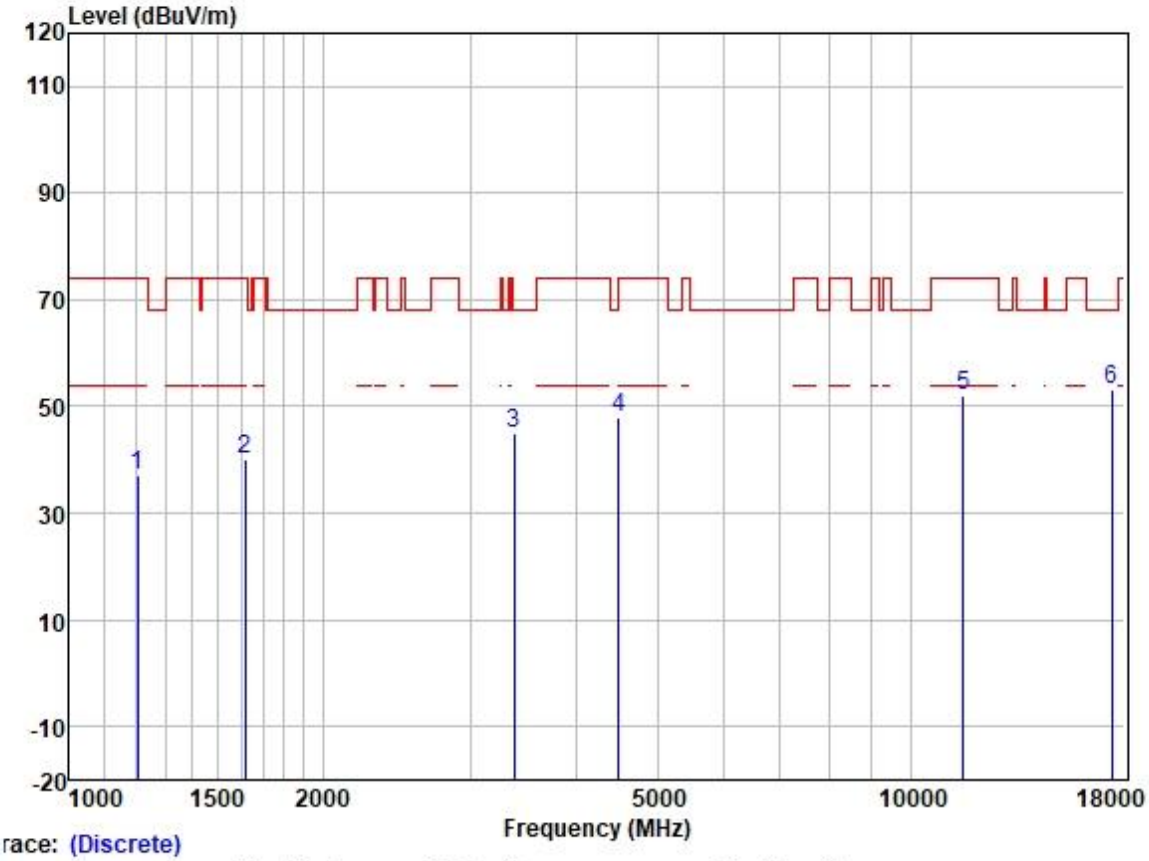
Test Mode: 25; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	47.98	25.19	2.58	38.31	37.44	68.20	-30.76	HORIZONTAL	Peak
2	1625.121	49.02	25.61	2.80	37.95	39.48	74.00	-34.52	HORIZONTAL	Peak
3	3415.787	49.07	28.85	4.13	36.97	45.08	68.20	-23.12	HORIZONTAL	Peak
4	4242.641	50.46	30.30	4.62	36.81	48.57	74.00	-25.43	HORIZONTAL	Peak
5	11570.000	41.59	39.78	8.38	37.14	52.61	74.00	-21.39	HORIZONTAL	Peak
6	17355.000	34.38	43.40	10.39	35.32	52.85	68.20	-15.35	HORIZONTAL	Peak

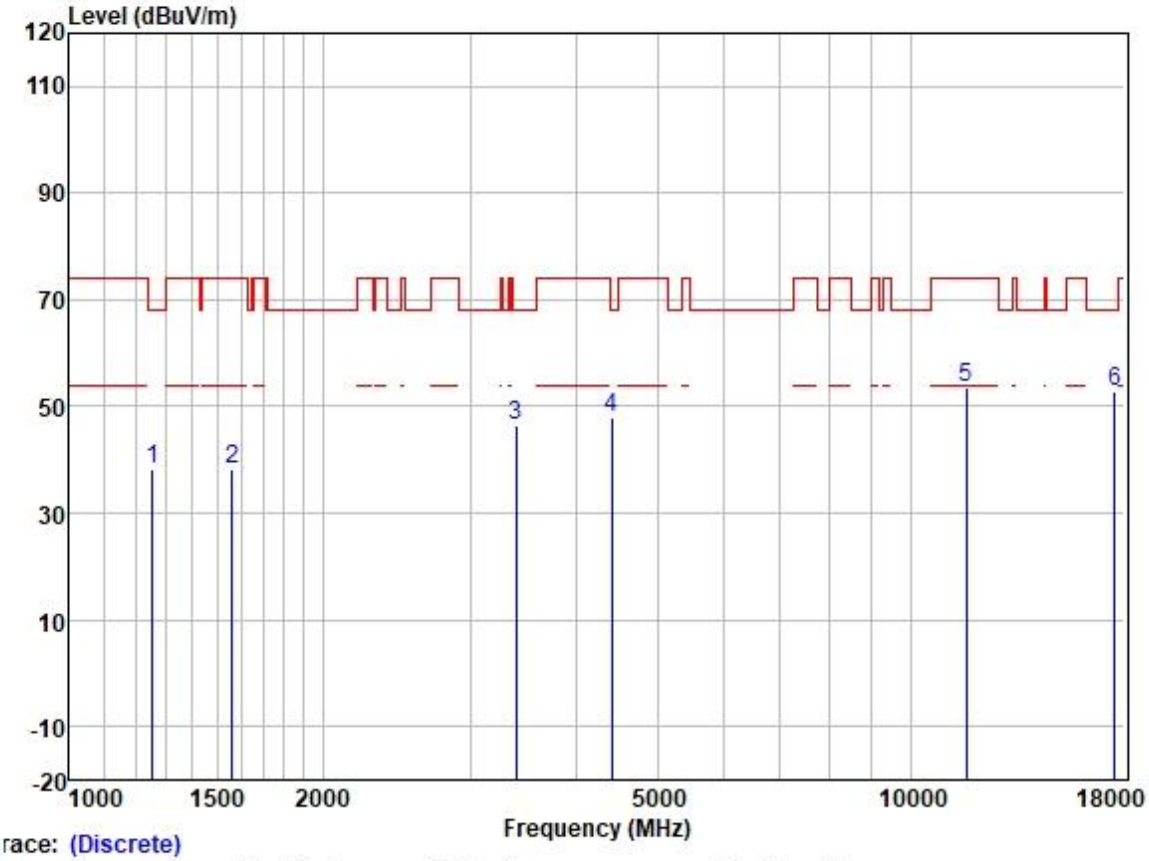
Test Mode: 25; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1206.682	48.28	24.72	2.33	38.39	36.94	74.00	-37.06	VERTICAL	Peak
2	1615.754	49.50	25.60	2.80	37.95	39.95	74.00	-34.05	VERTICAL	Peak
3	3376.523	48.95	28.83	4.09	36.99	44.88	68.20	-23.32	VERTICAL	Peak
4	4495.125	48.81	30.80	5.05	36.82	47.84	68.20	-20.36	VERTICAL	Peak
5	11570.000	40.98	39.78	8.38	37.14	52.00	74.00	-22.00	VERTICAL	Peak
6	17355.000	34.70	43.40	10.39	35.32	53.17	68.20	-15.03	VERTICAL	Peak

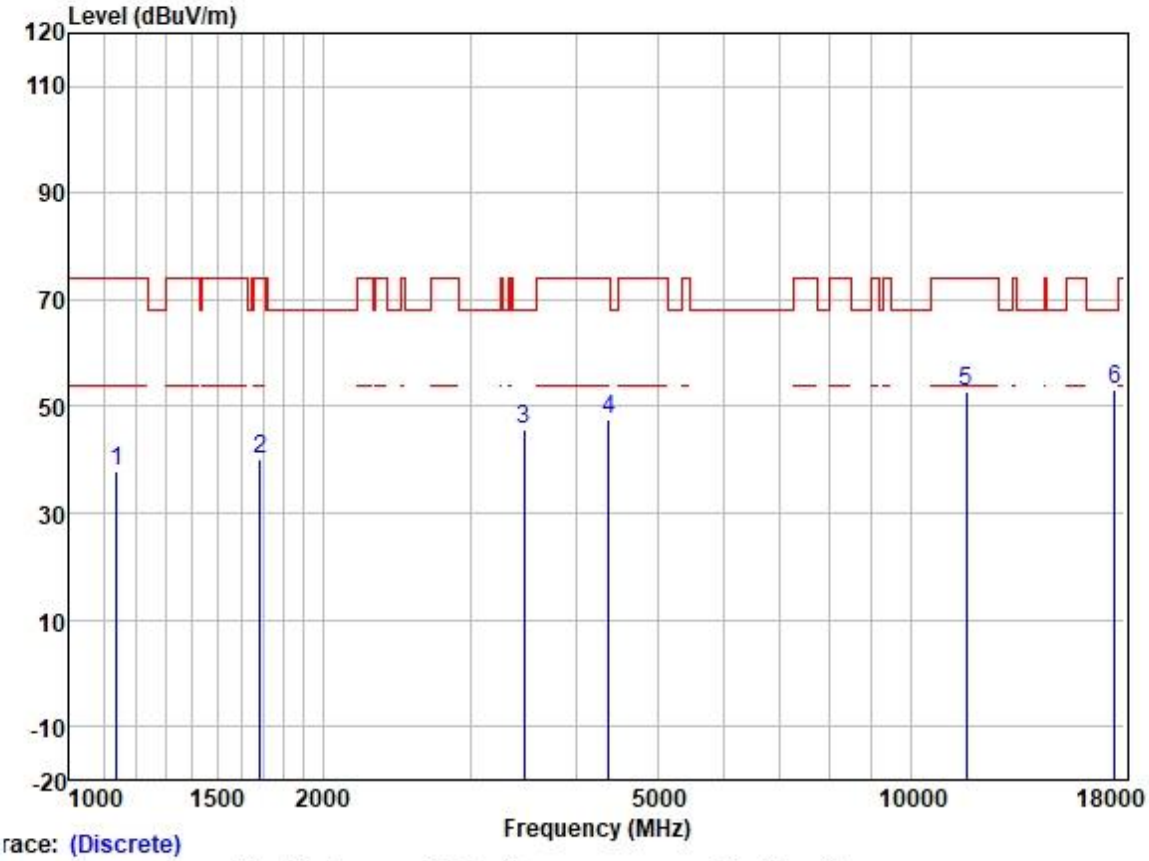
Test Mode: 25; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1256.512	49.26	25.05	2.38	38.35	38.34	68.20	-29.86	HORIZONTAL	Peak
2	1560.673	47.93	25.54	2.80	38.03	38.24	74.00	-35.76	HORIZONTAL	Peak
3	3396.098	50.31	28.84	4.10	36.98	46.27	68.20	-21.93	HORIZONTAL	Peak
4	4417.841	49.44	30.70	4.74	36.81	48.07	68.20	-20.13	HORIZONTAL	Peak
5	11650.000	42.62	39.65	8.35	37.13	53.49	74.00	-20.51	HORIZONTAL	Peak
6	17475.000	33.44	43.90	10.77	35.32	52.79	68.20	-15.41	HORIZONTAL	Peak

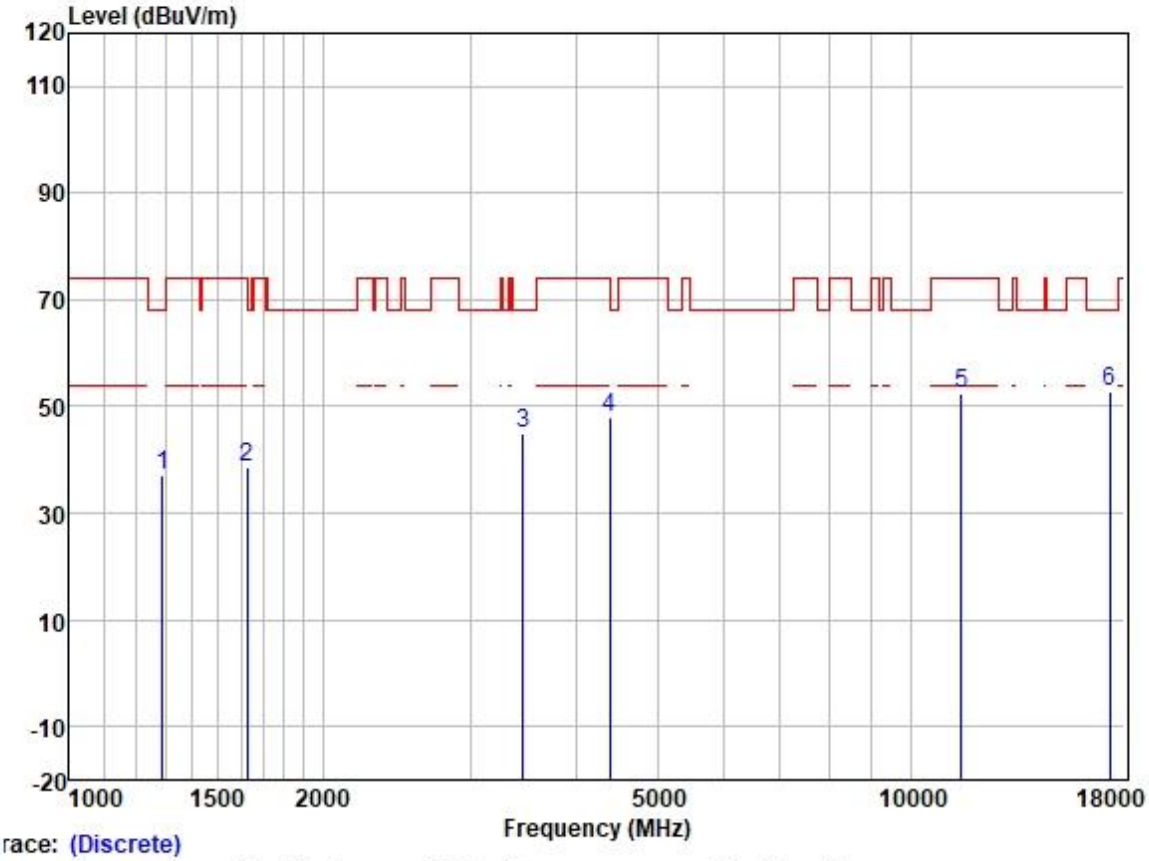
Test Mode: 25; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1138.904	49.41	24.46	2.27	38.42	37.72	74.00	-36.28	VERTICAL	Peak
2	1687.347	49.54	25.69	2.80	37.91	40.12	74.00	-33.88	VERTICAL	Peak
3	3475.541	49.34	28.89	4.25	36.95	45.53	68.20	-22.67	VERTICAL	Peak
4	4379.699	49.09	30.64	4.69	36.81	47.61	74.00	-26.39	VERTICAL	Peak
5	11650.000	42.04	39.65	8.35	37.13	52.91	74.00	-21.09	VERTICAL	Peak
6	17475.000	33.82	43.90	10.77	35.32	53.17	68.20	-15.03	VERTICAL	Peak

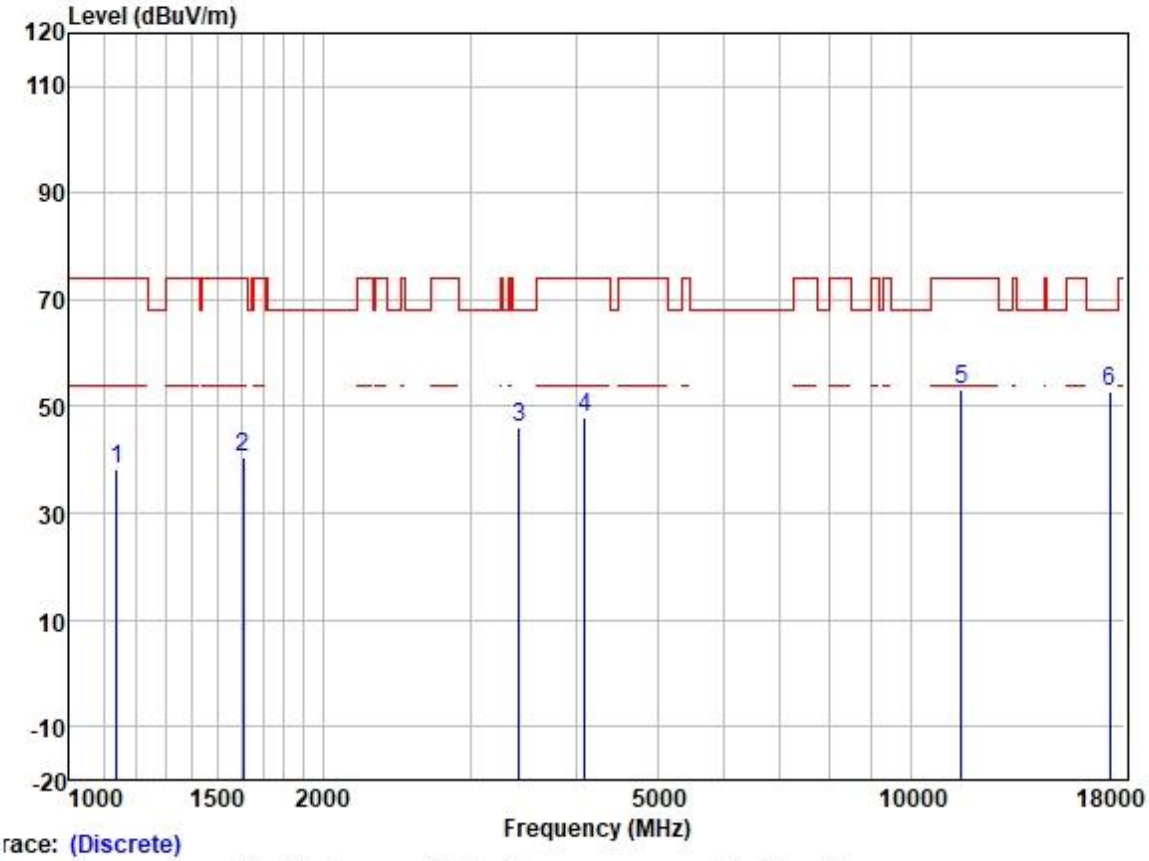
Test Mode: 25; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	47.82	25.17	2.55	38.31	37.23	68.20	-30.97	HORIZONTAL	Peak
2	1625.121	48.12	25.61	2.80	37.95	38.58	74.00	-35.42	HORIZONTAL	Peak
3	3465.510	48.92	28.88	4.22	36.95	45.07	68.20	-23.13	HORIZONTAL	Peak
4	4392.376	49.22	30.66	4.70	36.81	47.77	74.00	-26.23	HORIZONTAL	Peak
5	11510.000	41.27	39.90	8.41	37.15	52.43	74.00	-21.57	HORIZONTAL	Peak
6	17265.000	34.50	43.21	10.24	35.33	52.62	68.20	-15.58	HORIZONTAL	Peak

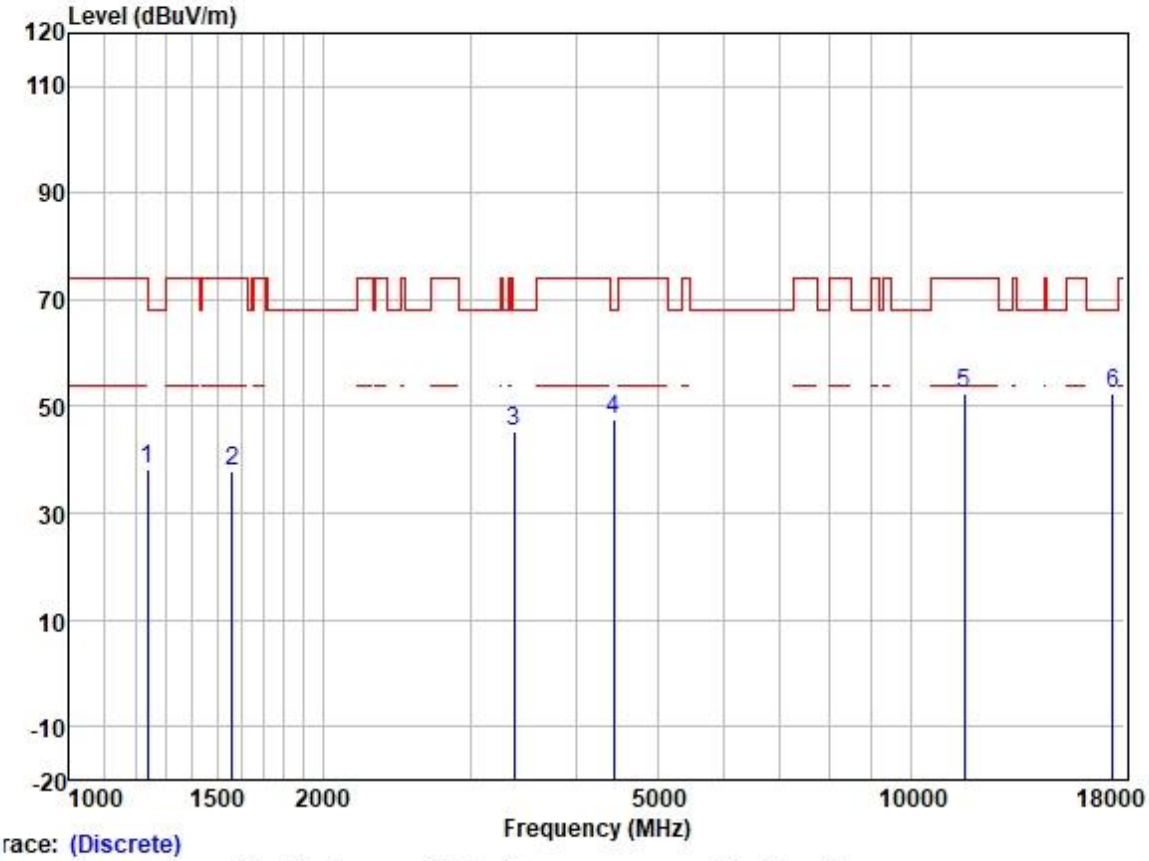
Test Mode: 25; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1138.904	49.82	24.46	2.27	38.42	38.13	74.00	-35.87	VERTICAL	Peak
2	1611.091	50.06	25.59	2.80	37.98	40.47	74.00	-33.53	VERTICAL	Peak
3	3425.675	49.92	28.86	4.15	36.97	45.96	68.20	-22.24	VERTICAL	Peak
4	4098.010	50.10	29.94	4.60	36.80	47.84	74.00	-26.16	VERTICAL	Peak
5	11510.000	42.19	39.90	8.41	37.15	53.35	74.00	-20.65	VERTICAL	Peak
6	17265.000	34.54	43.21	10.24	35.33	52.66	68.20	-15.54	VERTICAL	Peak

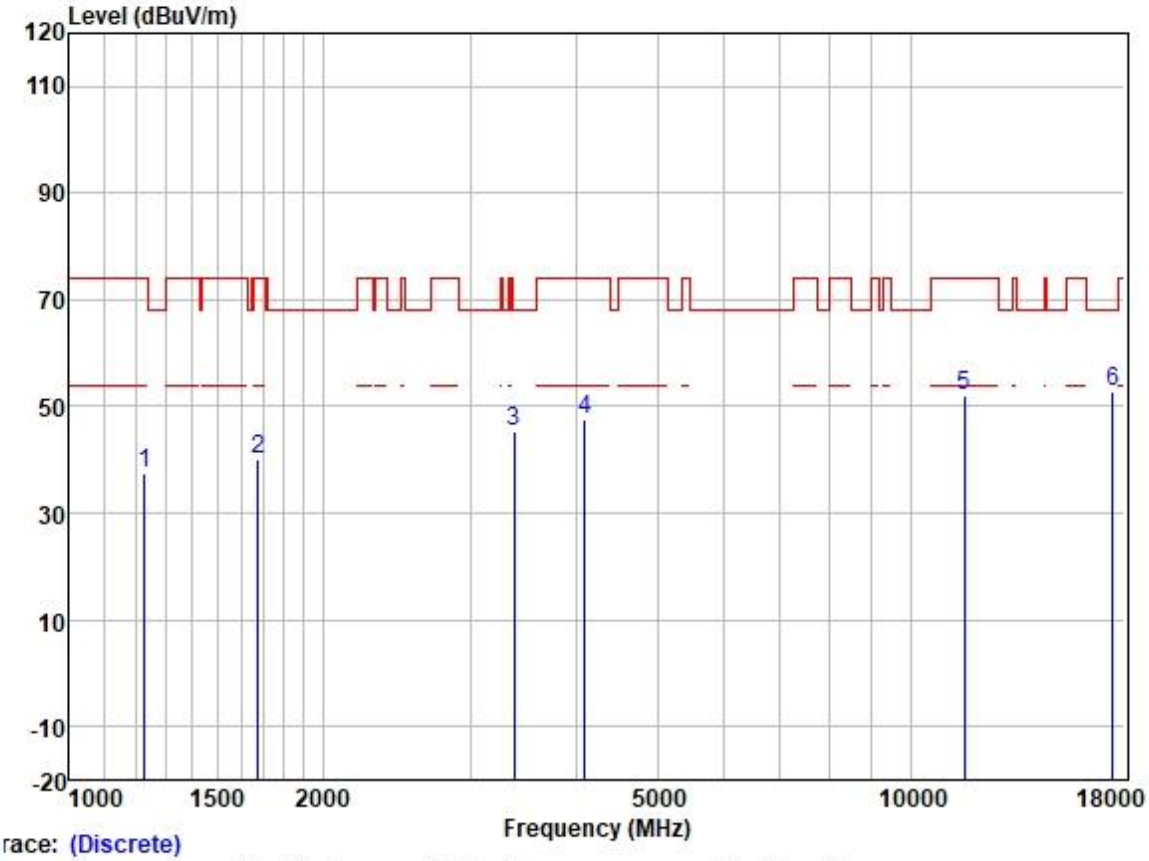
Test Mode: 25; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1238.483	49.32	24.96	2.30	38.35	38.23	74.00	-35.77	HORIZONTAL	Peak
2	1560.673	47.70	25.54	2.80	38.03	38.01	74.00	-35.99	HORIZONTAL	Peak
3	3376.523	49.46	28.83	4.09	36.99	45.39	68.20	-22.81	HORIZONTAL	Peak
4	4443.453	48.74	30.73	4.83	36.81	47.49	68.20	-20.71	HORIZONTAL	Peak
5	11590.000	41.66	39.72	8.37	37.14	52.61	74.00	-21.39	HORIZONTAL	Peak
6	17385.000	33.53	43.57	10.53	35.32	52.31	68.20	-15.89	HORIZONTAL	Peak

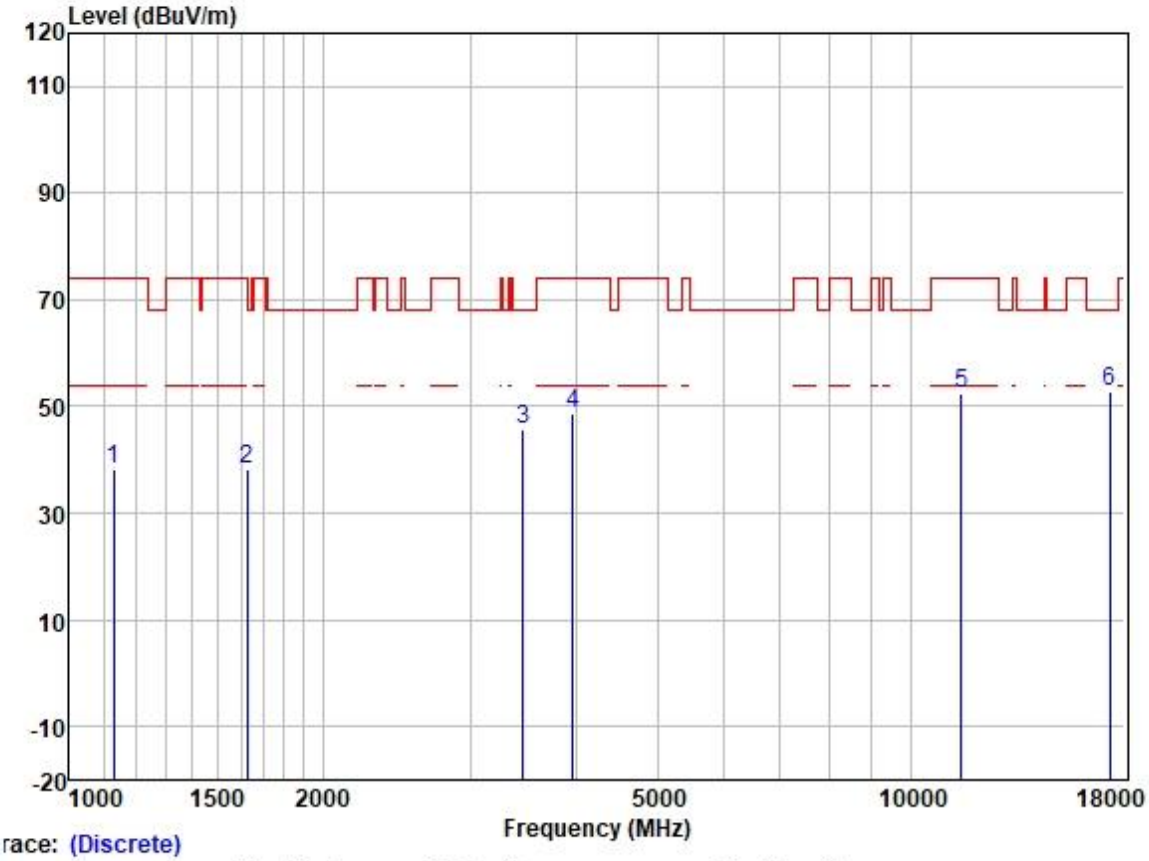
Test Mode: 25; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1227.791	48.78	24.88	2.31	38.37	37.60	74.00	-36.40	VERTICAL	Peak
2	1677.621	49.49	25.68	2.80	37.91	40.06	74.00	-33.94	VERTICAL	Peak
3	3376.523	49.50	28.83	4.09	36.99	45.43	68.20	-22.77	VERTICAL	Peak
4	4098.010	49.93	29.94	4.60	36.80	47.67	74.00	-26.33	VERTICAL	Peak
5	11590.000	41.24	39.72	8.37	37.14	52.19	74.00	-21.81	VERTICAL	Peak
6	17385.000	34.18	43.57	10.53	35.32	52.96	68.20	-15.24	VERTICAL	Peak

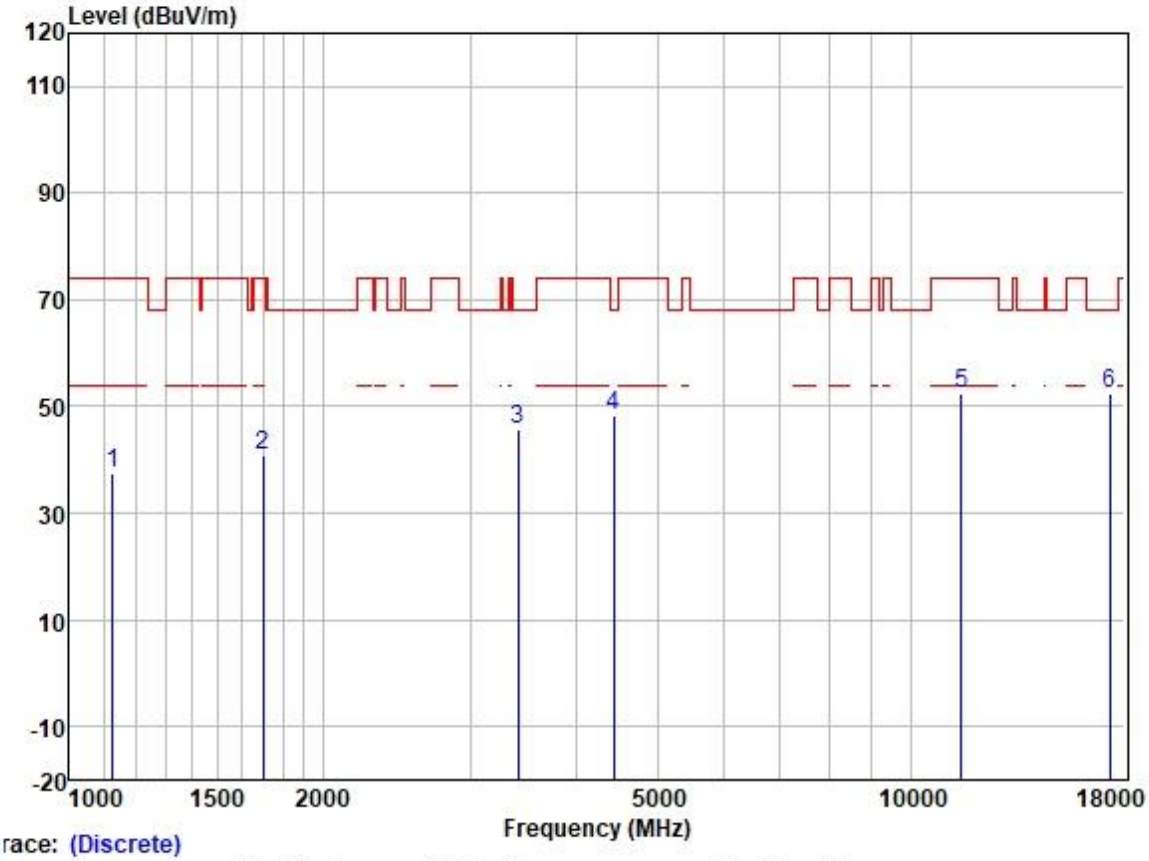
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1129.072	49.86	24.43	2.20	38.43	38.06	74.00	-35.94	HORIZONTAL	Peak
2	1625.121	47.75	25.61	2.80	37.95	38.21	74.00	-35.79	HORIZONTAL	Peak
3	3465.510	49.53	28.88	4.22	36.95	45.68	68.20	-22.52	HORIZONTAL	Peak
4	3969.767	50.95	29.77	4.60	36.81	48.51	74.00	-25.49	HORIZONTAL	Peak
5	11490.000	41.44	39.90	8.41	37.15	52.60	74.00	-21.40	HORIZONTAL	Peak
6	17235.000	35.03	43.01	10.08	35.33	52.79	68.20	-15.41	HORIZONTAL	Peak

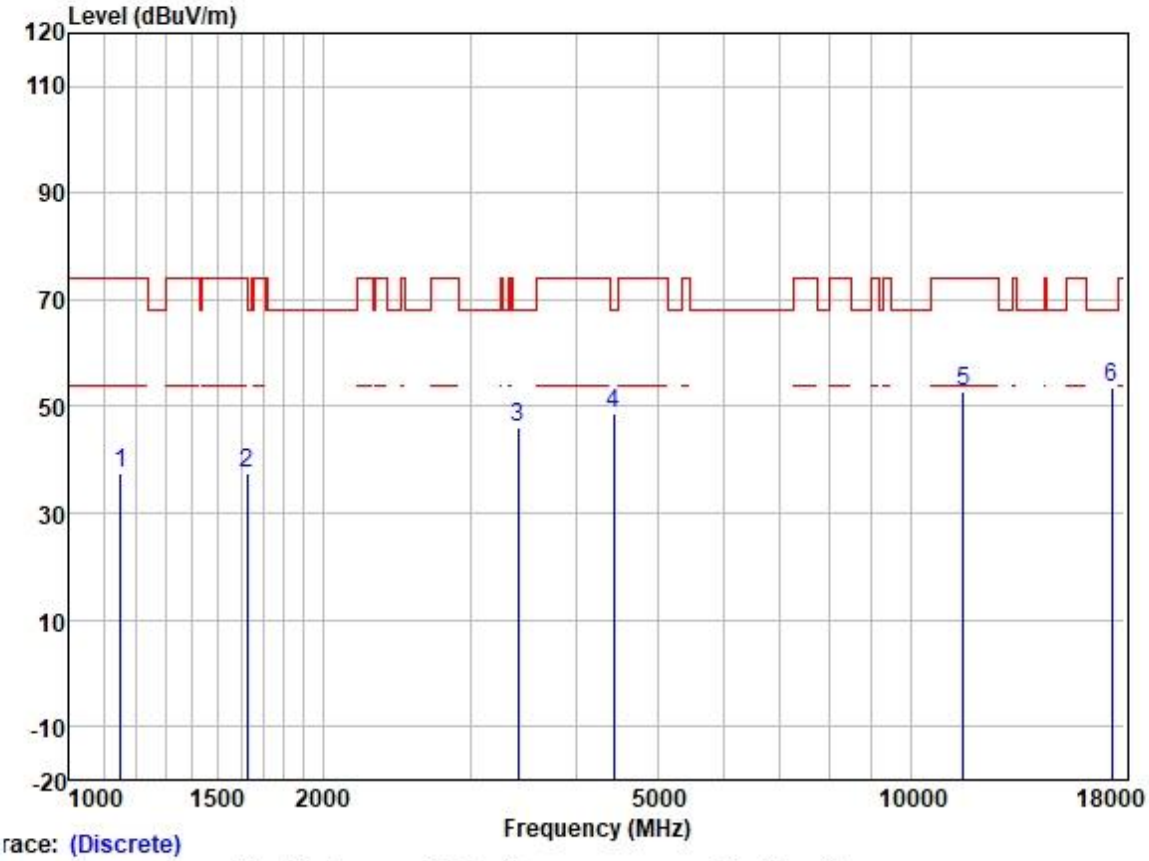
Test Mode: 25; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1125.813	49.25	24.42	2.21	38.43	37.45	74.00	-36.55	VERTICAL	Peak
2	1697.129	50.12	25.71	2.80	37.89	40.74	74.00	-33.26	VERTICAL	Peak
3	3415.787	49.81	28.85	4.13	36.97	45.82	68.20	-22.38	VERTICAL	Peak
4	4443.453	49.58	30.73	4.83	36.81	48.33	68.20	-19.87	VERTICAL	Peak
5	11490.000	41.14	39.90	8.41	37.15	52.30	74.00	-21.70	VERTICAL	Peak
6	17235.000	34.64	43.01	10.08	35.33	52.40	68.20	-15.80	VERTICAL	Peak

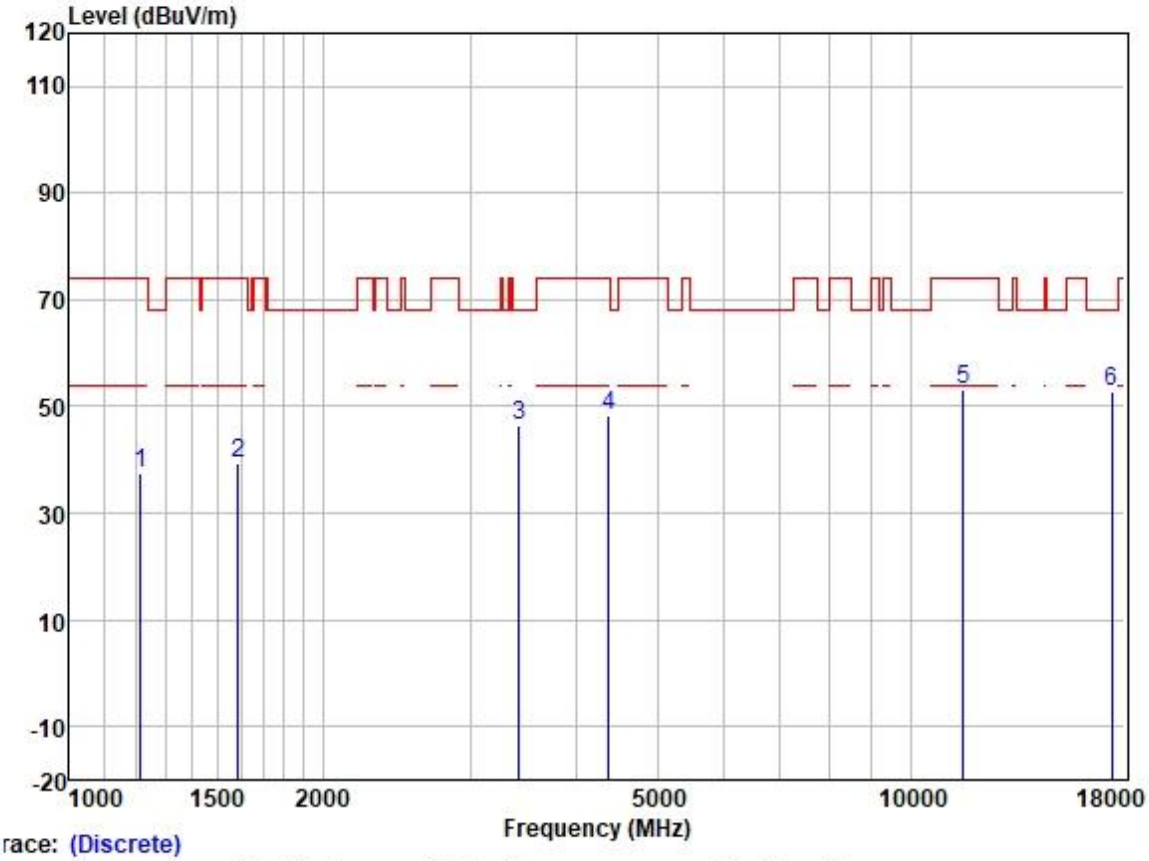
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1152.148	49.03	24.50	2.36	38.42	37.47	74.00	-36.53	HORIZONTAL	Peak
2	1625.121	47.16	25.61	2.80	37.95	37.62	74.00	-36.38	HORIZONTAL	Peak
3	3415.787	50.04	28.85	4.13	36.97	46.05	68.20	-22.15	HORIZONTAL	Peak
4	4443.453	49.83	30.73	4.83	36.81	48.58	68.20	-19.62	HORIZONTAL	Peak
5	11570.000	41.67	39.78	8.38	37.14	52.69	74.00	-21.31	HORIZONTAL	Peak
6	17355.000	35.05	43.40	10.39	35.32	53.52	68.20	-14.68	HORIZONTAL	Peak

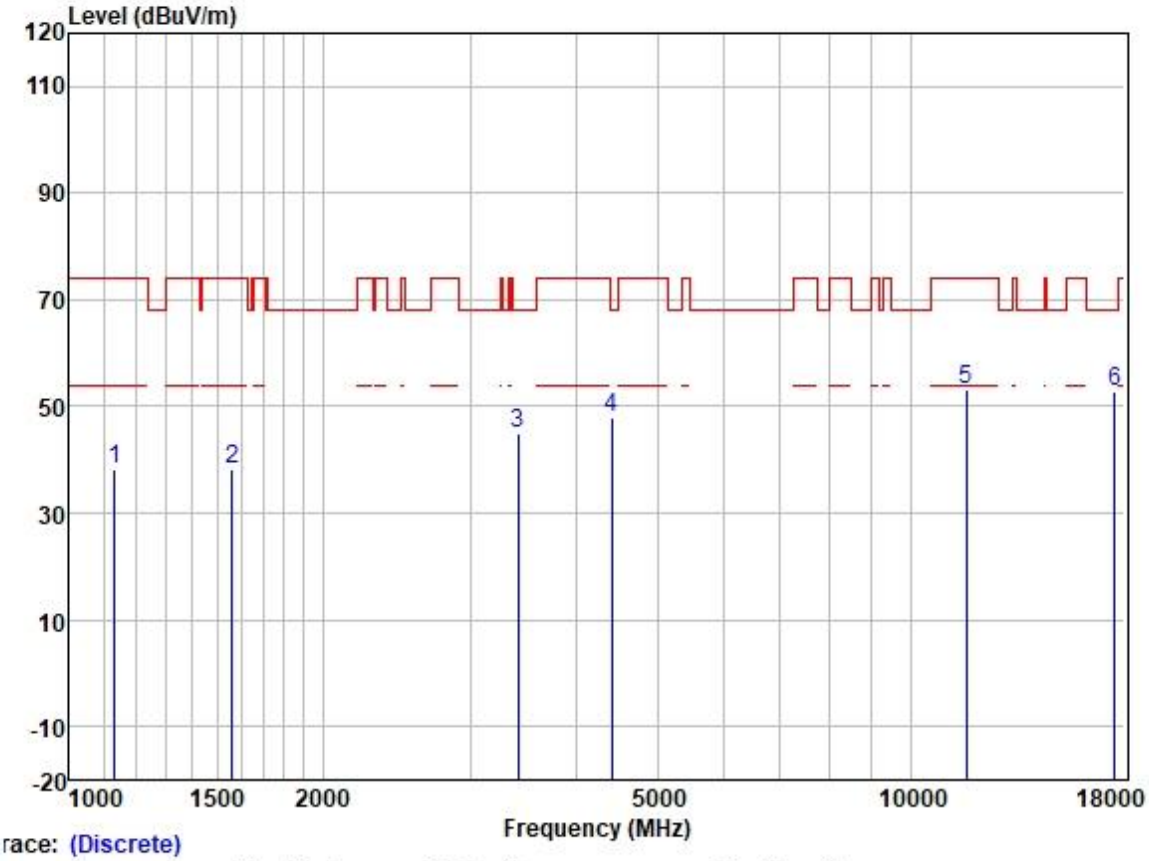
Test Mode: 25; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1213.677	48.75	24.77	2.32	38.37	37.47	74.00	-36.53	VERTICAL	Peak
2	1587.975	49.10	25.57	2.80	37.98	39.49	74.00	-34.51	VERTICAL	Peak
3	3425.675	50.27	28.86	4.15	36.97	46.31	68.20	-21.89	VERTICAL	Peak
4	4379.699	49.79	30.64	4.69	36.81	48.31	74.00	-25.69	VERTICAL	Peak
5	11570.000	42.18	39.78	8.38	37.14	53.20	74.00	-20.80	VERTICAL	Peak
6	17355.000	34.31	43.40	10.39	35.32	52.78	68.20	-15.42	VERTICAL	Peak

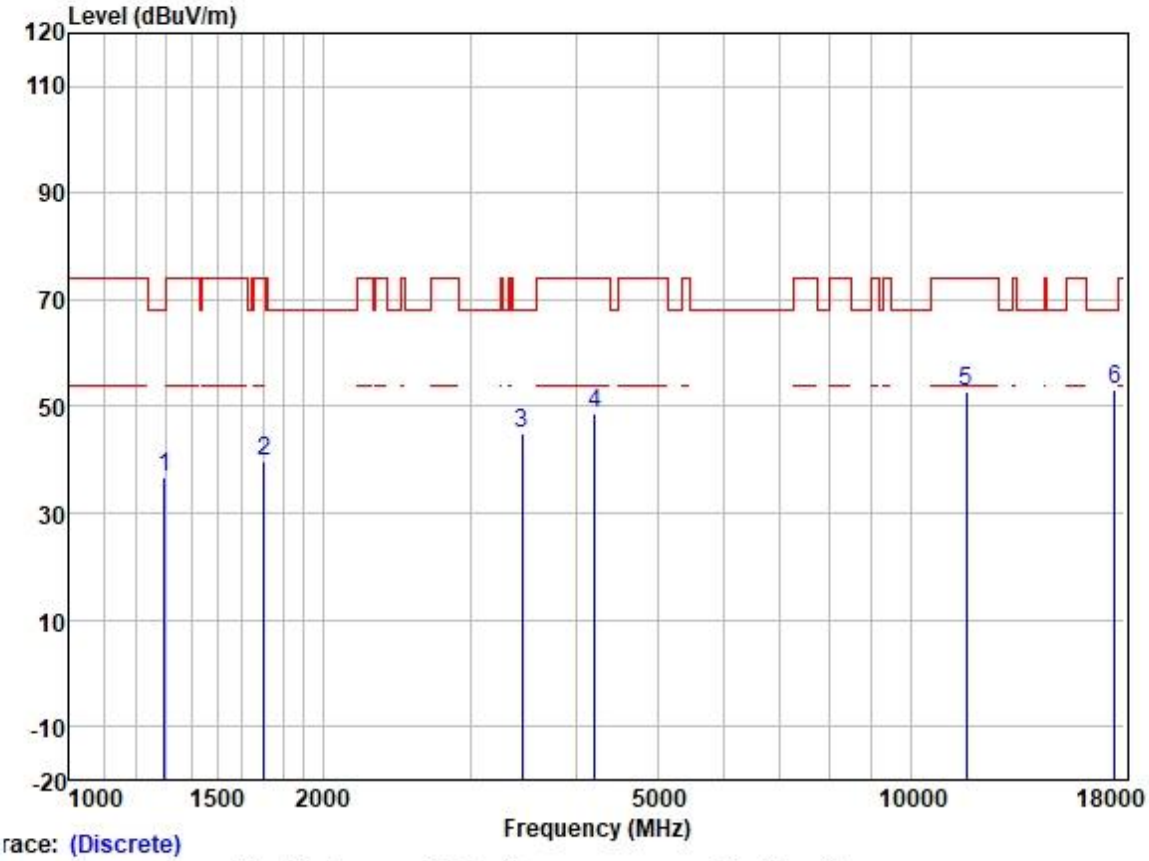
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1132.340	50.12	24.44	2.22	38.43	38.35	74.00	-35.65	HORIZONTAL	Peak
2	1560.673	47.93	25.54	2.80	38.03	38.24	74.00	-35.76	HORIZONTAL	Peak
3	3415.787	49.09	28.85	4.13	36.97	45.10	68.20	-23.10	HORIZONTAL	Peak
4	4417.841	49.22	30.70	4.74	36.81	47.85	68.20	-20.35	HORIZONTAL	Peak
5	11650.000	42.29	39.65	8.35	37.13	53.16	74.00	-20.84	HORIZONTAL	Peak
6	17475.000	33.59	43.90	10.77	35.32	52.94	68.20	-15.26	HORIZONTAL	Peak

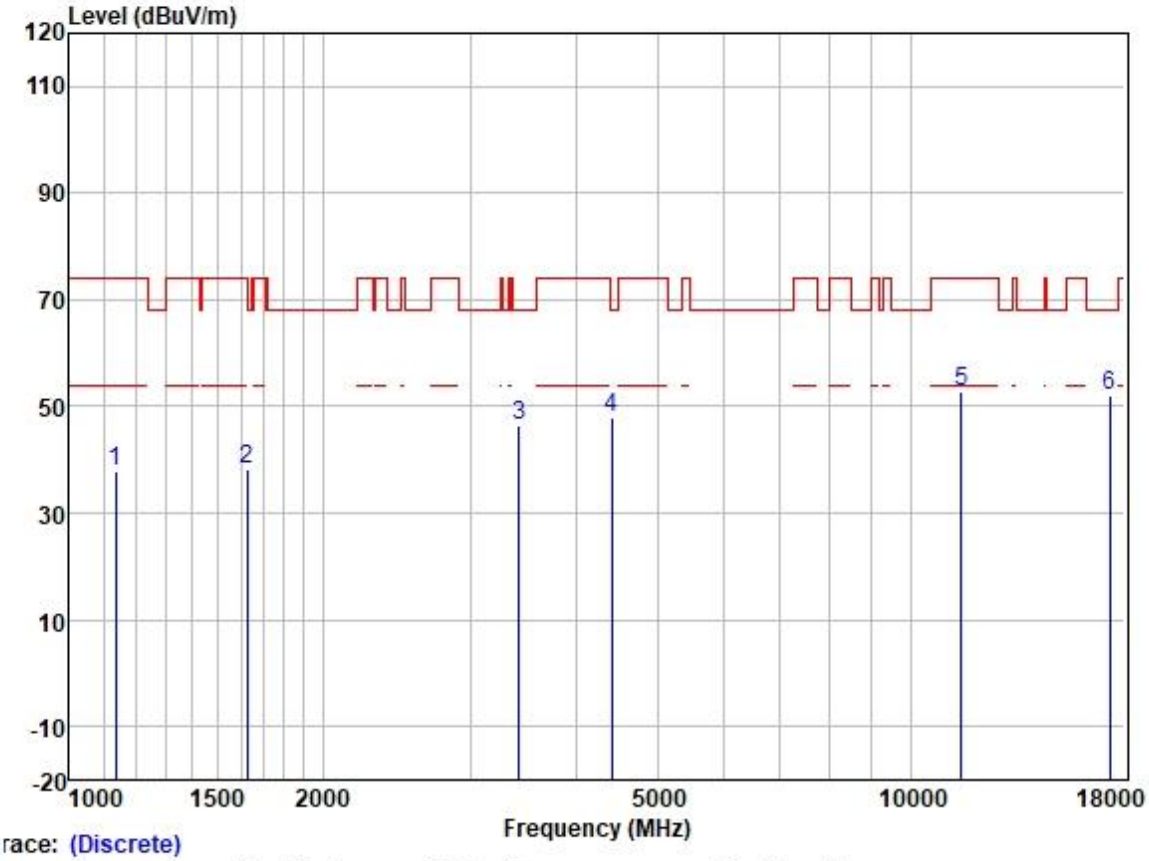
Test Mode: 25; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	47.42	25.19	2.58	38.31	36.88	68.20	-31.32	VERTICAL	Peak
2	1702.042	49.06	25.72	2.80	37.89	39.69	74.00	-34.31	VERTICAL	Peak
3	3455.508	48.86	28.88	4.20	36.96	44.98	68.20	-23.22	VERTICAL	Peak
4	4218.186	50.50	30.22	4.60	36.81	48.51	74.00	-25.49	VERTICAL	Peak
5	11650.000	41.95	39.65	8.35	37.13	52.82	74.00	-21.18	VERTICAL	Peak
6	17475.000	33.93	43.90	10.77	35.32	53.28	68.20	-14.92	VERTICAL	Peak

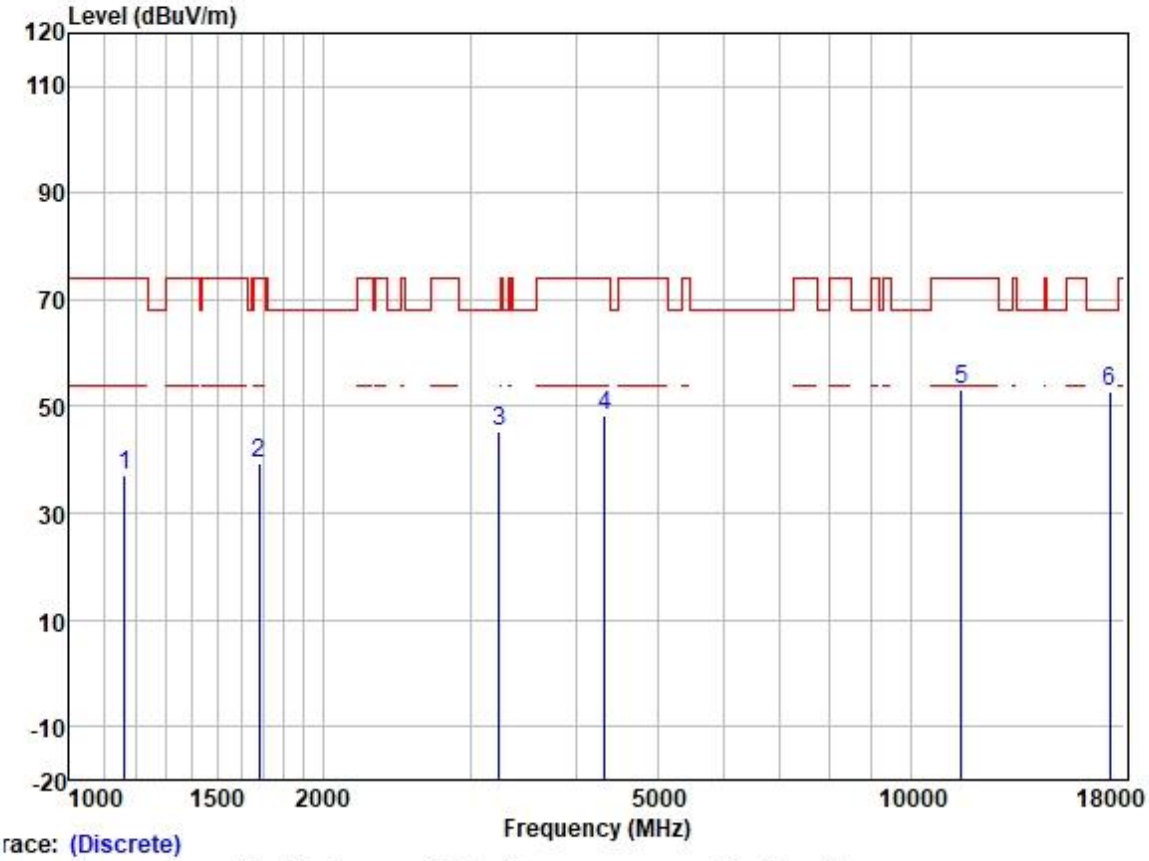
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1135.617	49.56	24.45	2.25	38.43	37.83	74.00	-36.17	HORIZONTAL	Peak
2	1625.121	47.64	25.61	2.80	37.95	38.10	74.00	-35.90	HORIZONTAL	Peak
3	3425.675	50.38	28.86	4.15	36.97	46.42	68.20	-21.78	HORIZONTAL	Peak
4	4417.841	49.42	30.70	4.74	36.81	48.05	68.20	-20.15	HORIZONTAL	Peak
5	11510.000	41.61	39.90	8.41	37.15	52.77	74.00	-21.23	HORIZONTAL	Peak
6	17265.000	34.10	43.21	10.24	35.33	52.22	68.20	-15.98	HORIZONTAL	Peak

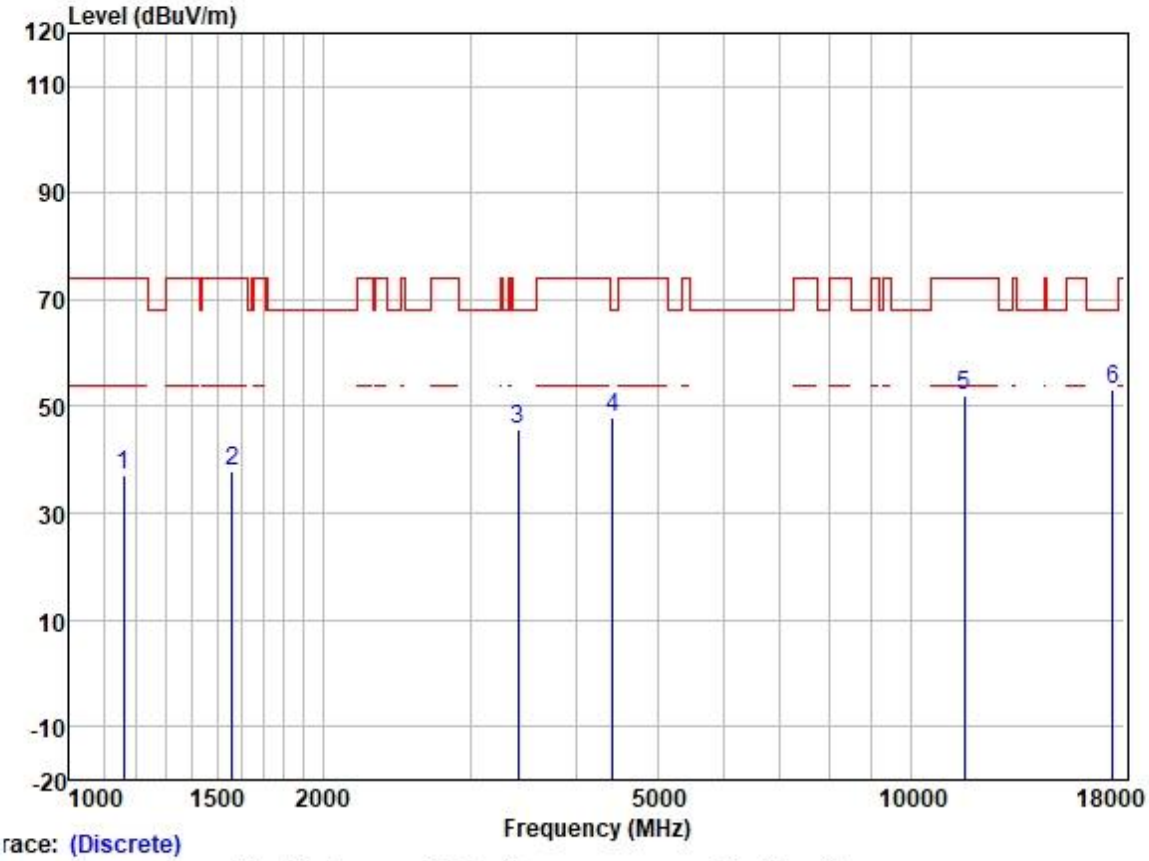
Test Mode: 25; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1162.182	48.70	24.53	2.40	38.42	37.21	74.00	-36.79	VERTICAL	Peak
2	1682.477	48.68	25.68	2.80	37.91	39.25	74.00	-34.75	VERTICAL	Peak
3	3242.619	49.68	28.67	4.02	37.06	45.31	68.20	-22.89	VERTICAL	Peak
4	4329.354	49.76	30.54	4.67	36.81	48.16	74.00	-25.84	VERTICAL	Peak
5	11510.000	41.92	39.90	8.41	37.15	53.08	74.00	-20.92	VERTICAL	Peak
6	17265.000	34.59	43.21	10.24	35.33	52.71	68.20	-15.49	VERTICAL	Peak

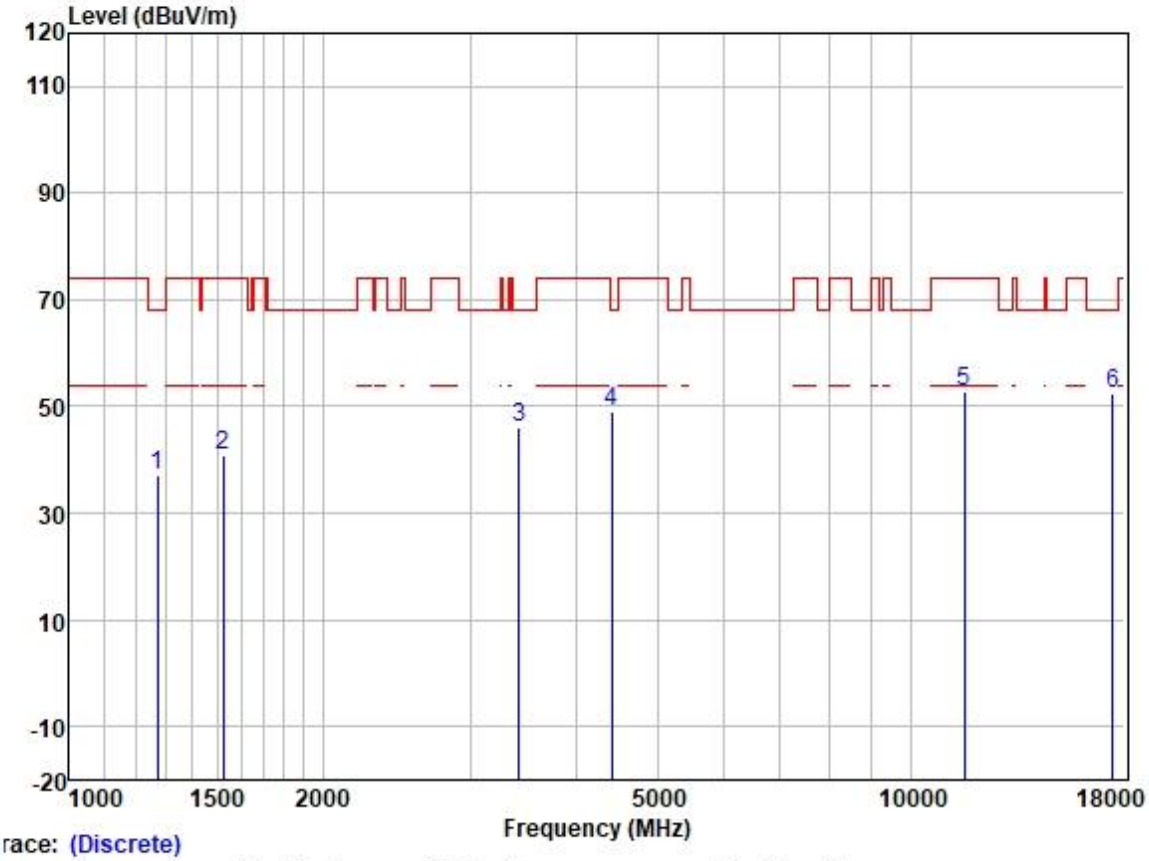
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1158.828	48.74	24.52	2.40	38.42	37.24	74.00	-36.76	HORIZONTAL	Peak
2	1560.673	47.64	25.54	2.80	38.03	37.95	74.00	-36.05	HORIZONTAL	Peak
3	3415.787	49.67	28.85	4.13	36.97	45.68	68.20	-22.52	HORIZONTAL	Peak
4	4430.628	49.22	30.72	4.78	36.81	47.91	68.20	-20.29	HORIZONTAL	Peak
5	11590.000	41.21	39.72	8.37	37.14	52.16	74.00	-21.84	HORIZONTAL	Peak
6	17385.000	34.47	43.57	10.53	35.32	53.25	68.20	-14.95	HORIZONTAL	Peak

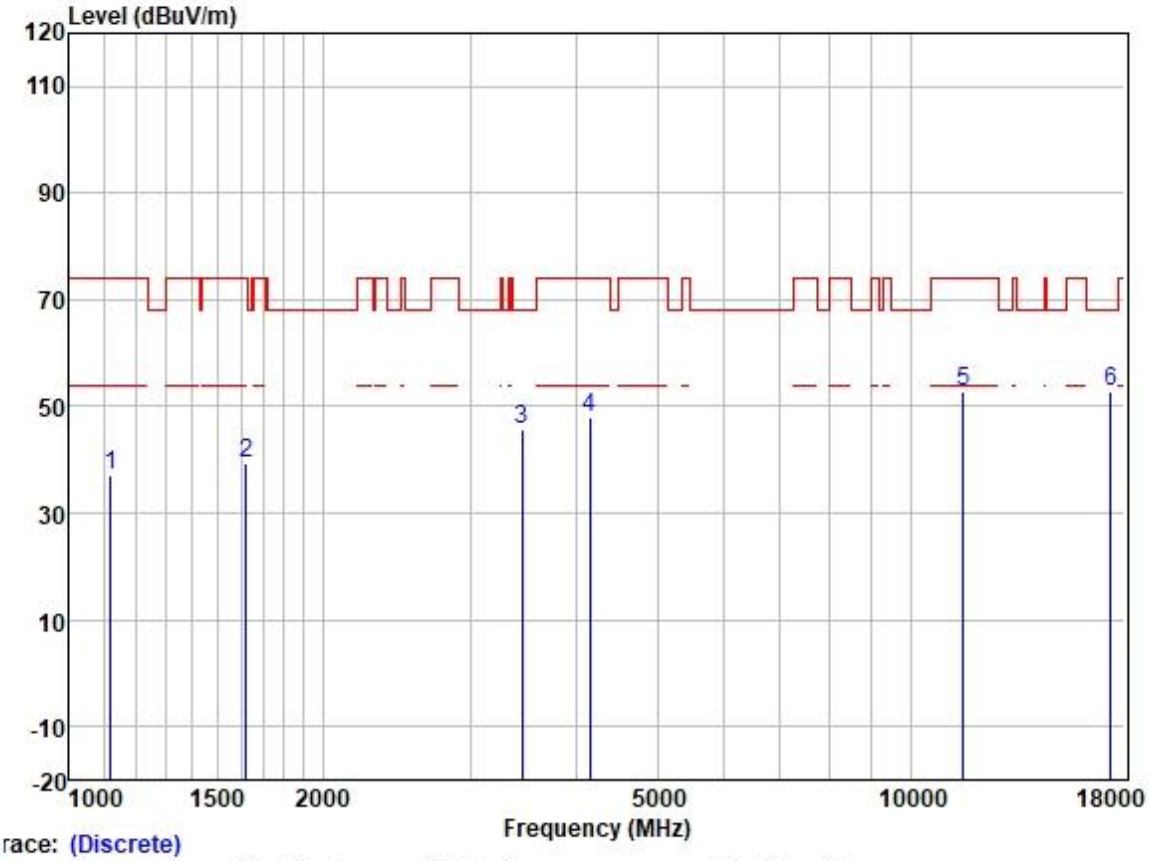
Test Mode: 25; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1271.123	47.88	25.11	2.46	38.33	37.12	68.20	-31.08	VERTICAL	Peak
2	1525.000	50.69	25.52	2.80	38.07	40.94	74.00	-33.06	VERTICAL	Peak
3	3425.675	49.86	28.86	4.15	36.97	45.90	68.20	-22.30	VERTICAL	Peak
4	4417.841	50.27	30.70	4.74	36.81	48.90	68.20	-19.30	VERTICAL	Peak
5	11590.000	41.93	39.72	8.37	37.14	52.88	74.00	-21.12	VERTICAL	Peak
6	17385.000	33.55	43.57	10.53	35.32	52.33	68.20	-15.87	VERTICAL	Peak

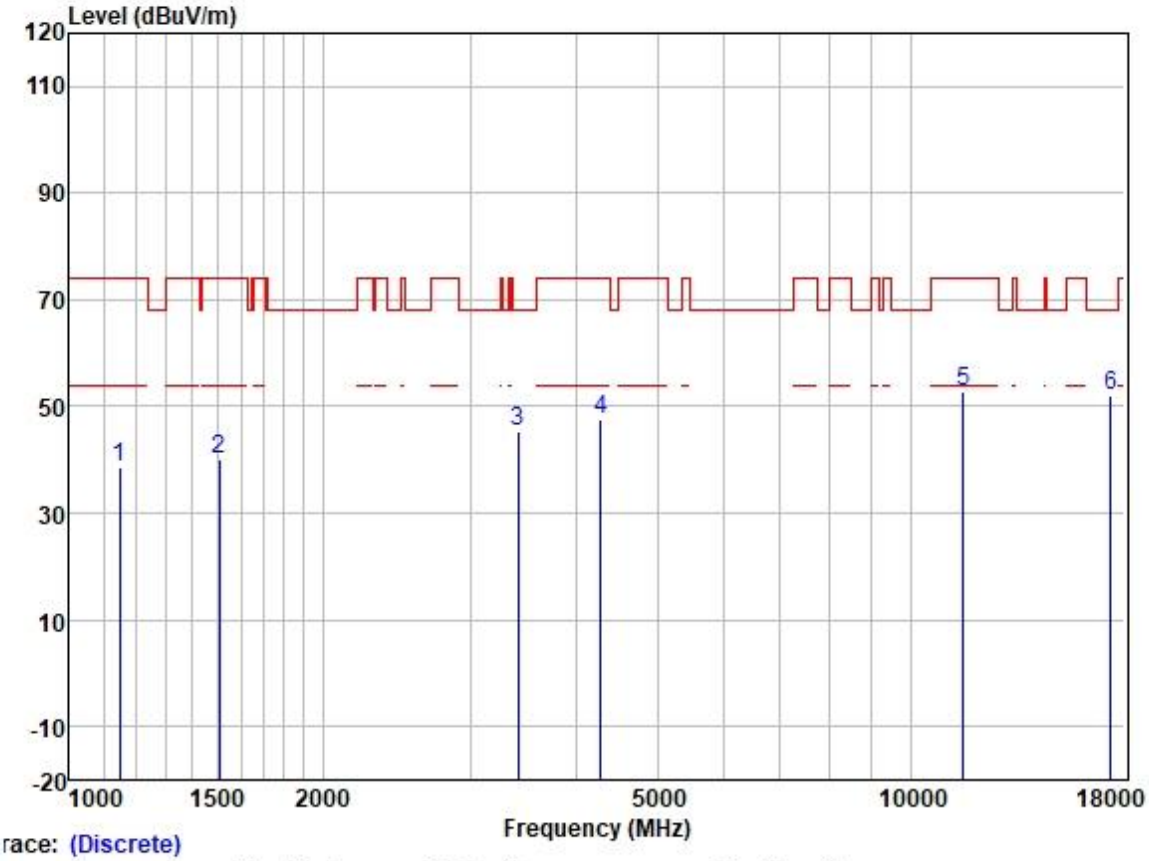
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1119.323	48.84	24.41	2.24	38.43	37.06	74.00	-36.94	HORIZONTAL	Peak
2	1620.431	49.05	25.60	2.80	37.95	39.50	74.00	-34.50	HORIZONTAL	Peak
3	3455.508	49.56	28.88	4.20	36.96	45.68	68.20	-22.52	HORIZONTAL	Peak
4	4157.664	50.18	30.06	4.60	36.80	48.04	74.00	-25.96	HORIZONTAL	Peak
5	11550.000	41.80	39.84	8.40	37.14	52.90	74.00	-21.10	HORIZONTAL	Peak
6	17325.000	34.34	43.40	10.39	35.32	52.81	68.20	-15.39	HORIZONTAL	Peak

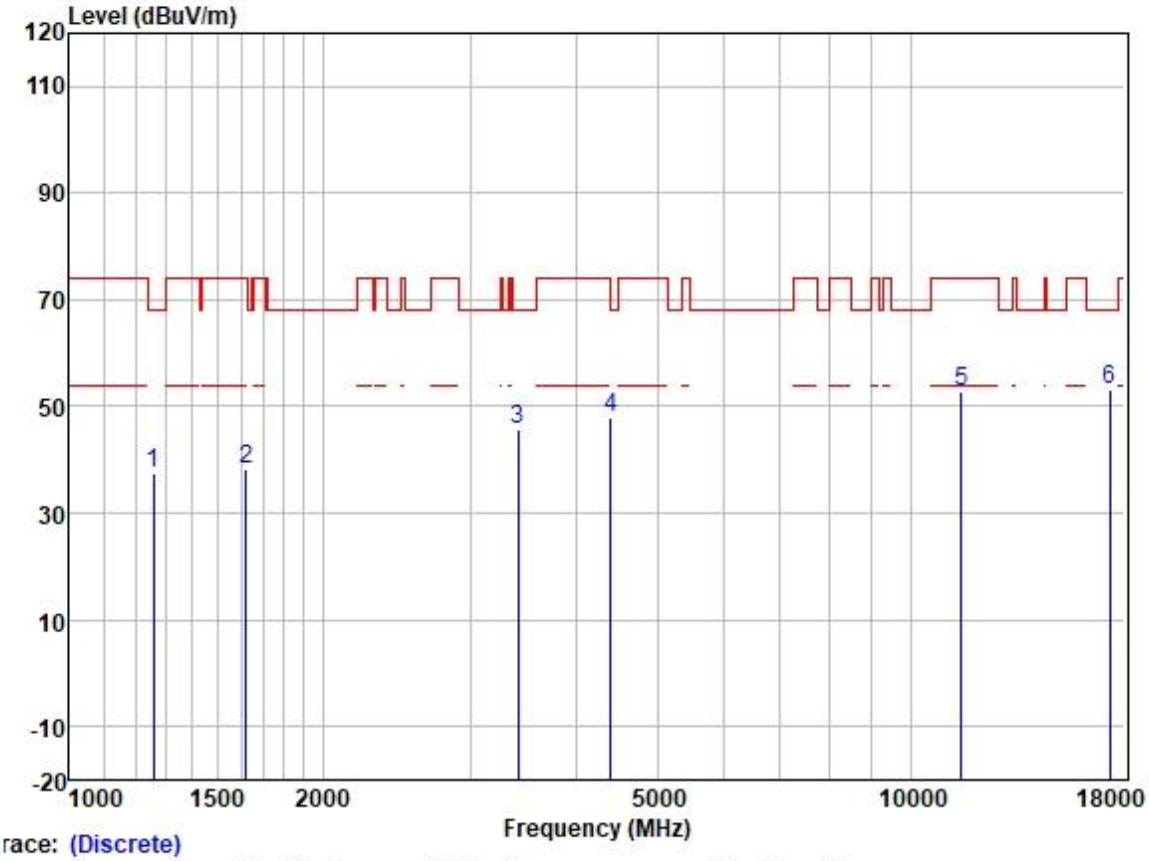
Test Mode: 25; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1148.823	50.18	24.49	2.34	38.42	38.59	74.00	-35.41	VERTICAL	Peak
2	1507.470	50.04	25.51	2.80	38.10	40.25	74.00	-33.75	VERTICAL	Peak
3	3415.787	49.17	28.85	4.13	36.97	45.18	68.20	-23.02	VERTICAL	Peak
4	4279.589	49.27	30.42	4.63	36.81	47.51	74.00	-26.49	VERTICAL	Peak
5	11550.000	41.65	39.84	8.40	37.14	52.75	74.00	-21.25	VERTICAL	Peak
6	17325.000	33.43	43.40	10.39	35.32	51.90	68.20	-16.30	VERTICAL	Peak

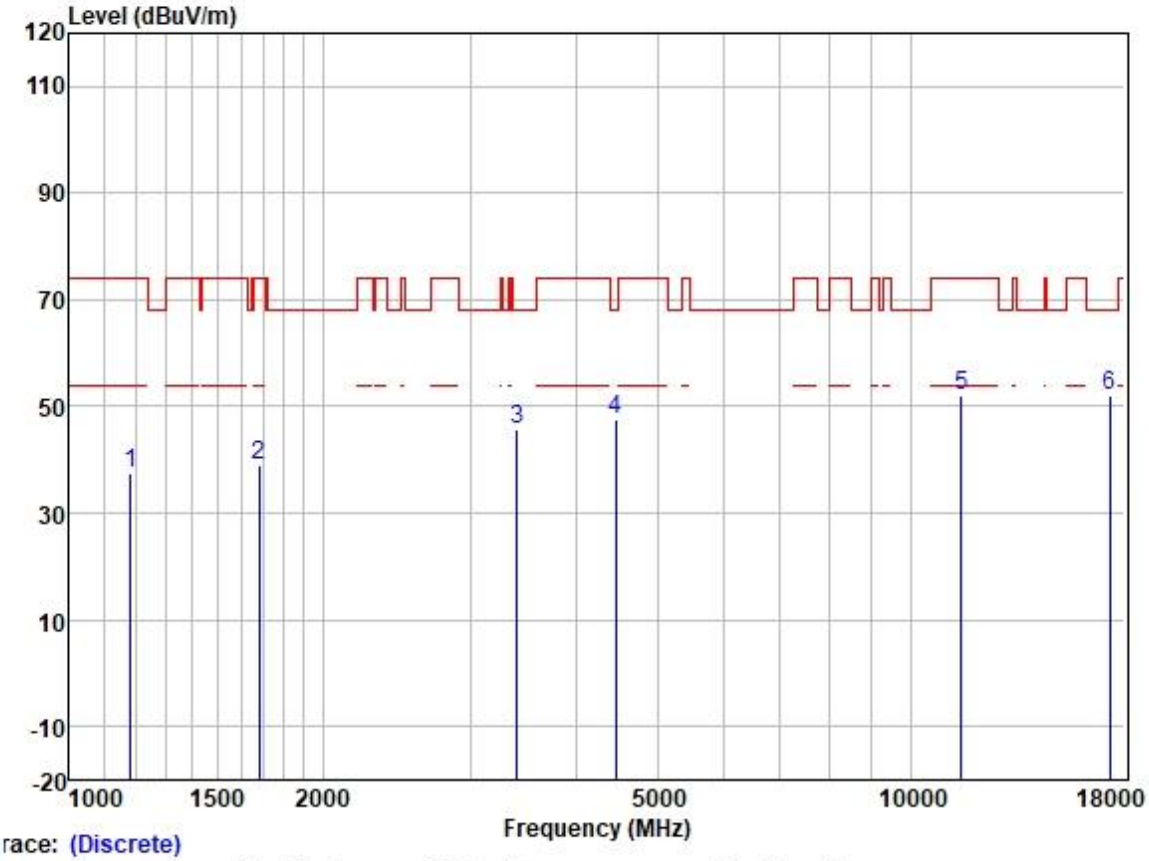
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1260.149	48.52	25.07	2.40	38.35	37.64	68.20	-30.56	HORIZONTAL	Peak
2	1620.431	47.82	25.60	2.80	37.95	38.27	74.00	-35.73	HORIZONTAL	Peak
3	3415.787	49.78	28.85	4.13	36.97	45.79	68.20	-22.41	HORIZONTAL	Peak
4	4405.090	49.36	30.68	4.70	36.81	47.93	68.20	-20.27	HORIZONTAL	Peak
5	11490.000	41.57	39.90	8.41	37.15	52.73	74.00	-21.27	HORIZONTAL	Peak
6	17235.000	35.39	43.01	10.08	35.33	53.15	68.20	-15.05	HORIZONTAL	Peak

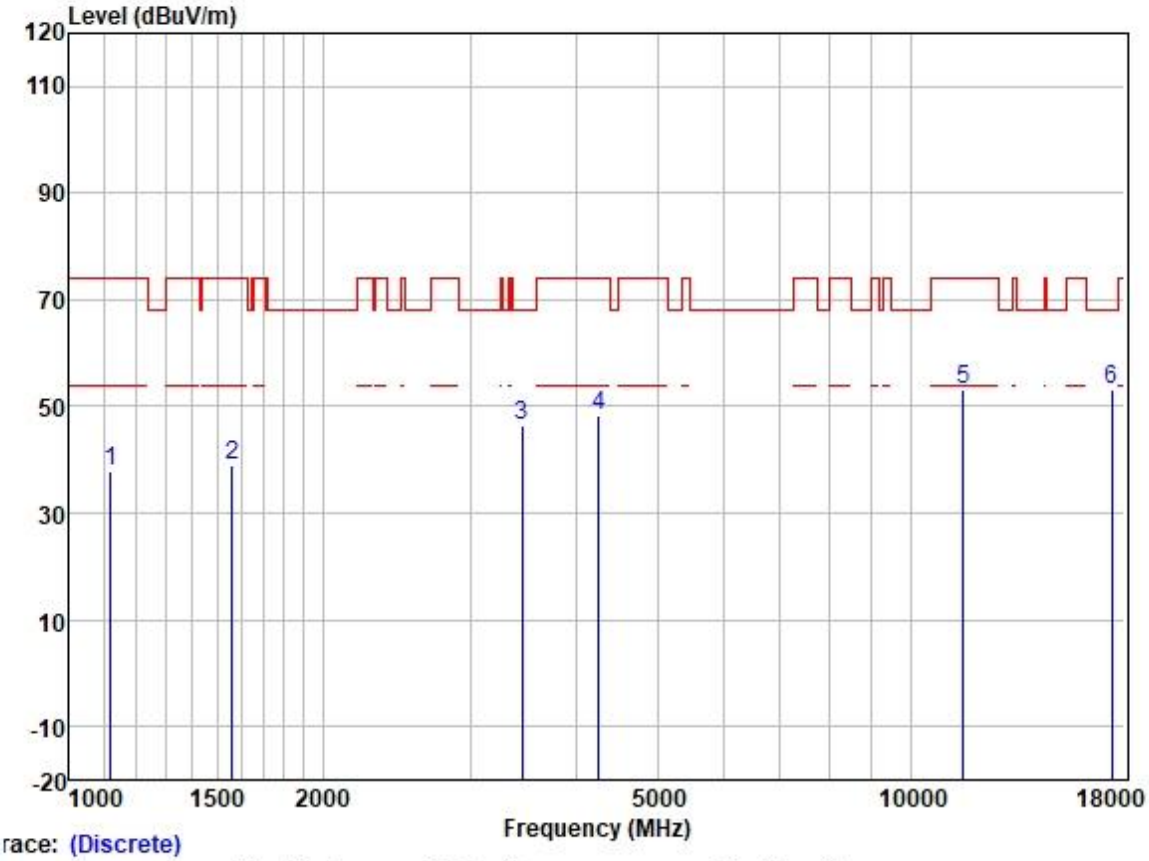
Test Mode: 25; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	48.87	24.60	2.37	38.40	37.44	74.00	-36.56	VERTICAL	Peak
2	1682.477	48.52	25.68	2.80	37.91	39.09	74.00	-34.91	VERTICAL	Peak
3	3405.929	49.54	28.85	4.11	36.98	45.52	68.20	-22.68	VERTICAL	Peak
4	4456.315	48.76	30.75	4.88	36.81	47.58	68.20	-20.62	VERTICAL	Peak
5	11490.000	40.98	39.90	8.41	37.15	52.14	74.00	-21.86	VERTICAL	Peak
6	17235.000	34.33	43.01	10.08	35.33	52.09	68.20	-16.11	VERTICAL	Peak

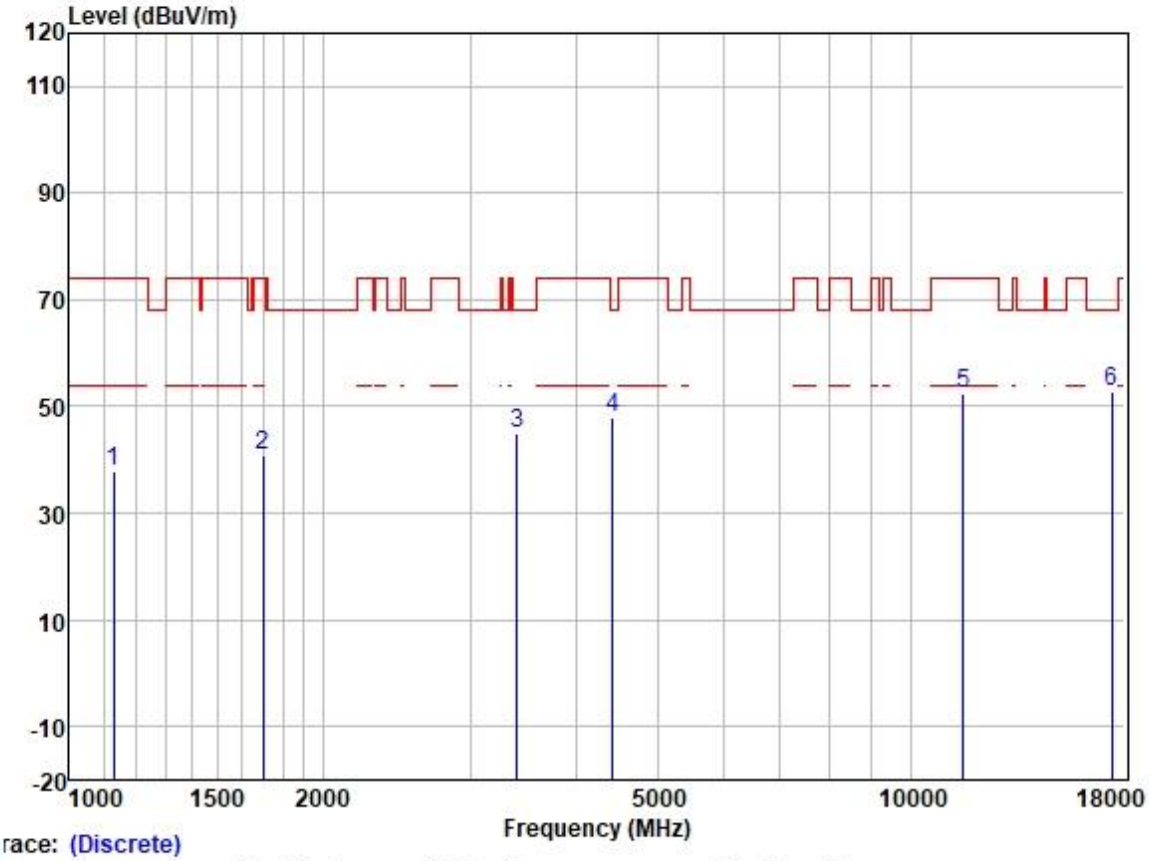
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1119.323	49.67	24.41	2.24	38.43	37.89	74.00	-36.11	HORIZONTAL	Peak
2	1560.673	48.81	25.54	2.80	38.03	39.12	74.00	-34.88	HORIZONTAL	Peak
3	3455.508	50.18	28.88	4.20	36.96	46.30	68.20	-21.90	HORIZONTAL	Peak
4	4254.921	50.16	30.34	4.62	36.81	48.31	74.00	-25.69	HORIZONTAL	Peak
5	11570.000	41.98	39.78	8.38	37.14	53.00	74.00	-21.00	HORIZONTAL	Peak
6	17355.000	34.60	43.40	10.39	35.32	53.07	68.20	-15.13	HORIZONTAL	Peak

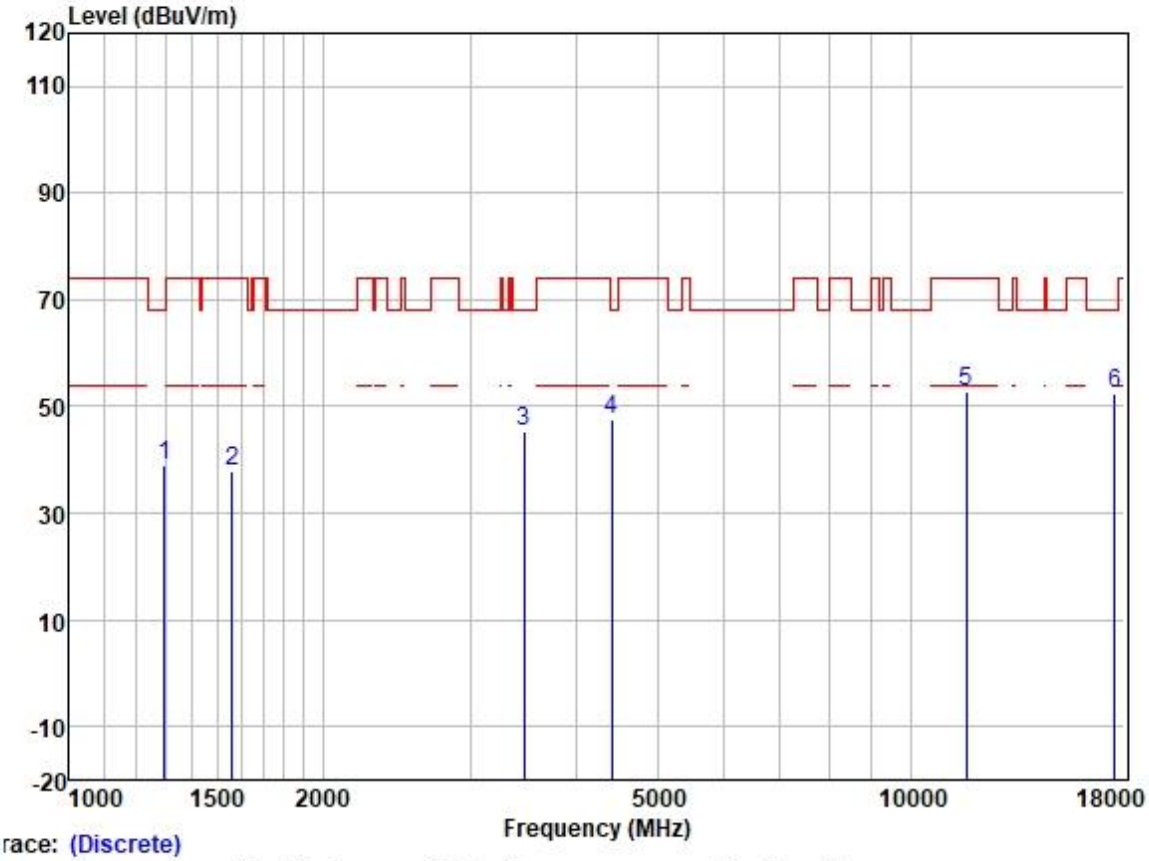
Test Mode: 25; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1129.072	49.79	24.43	2.20	38.43	37.99	74.00	-36.01	VERTICAL	Peak
2	1697.129	50.16	25.71	2.80	37.89	40.78	74.00	-33.22	VERTICAL	Peak
3	3405.929	49.06	28.85	4.11	36.98	45.04	68.20	-23.16	VERTICAL	Peak
4	4430.628	49.44	30.72	4.78	36.81	48.13	68.20	-20.07	VERTICAL	Peak
5	11570.000	41.22	39.78	8.38	37.14	52.24	74.00	-21.76	VERTICAL	Peak
6	17355.000	34.48	43.40	10.39	35.32	52.95	68.20	-15.25	VERTICAL	Peak

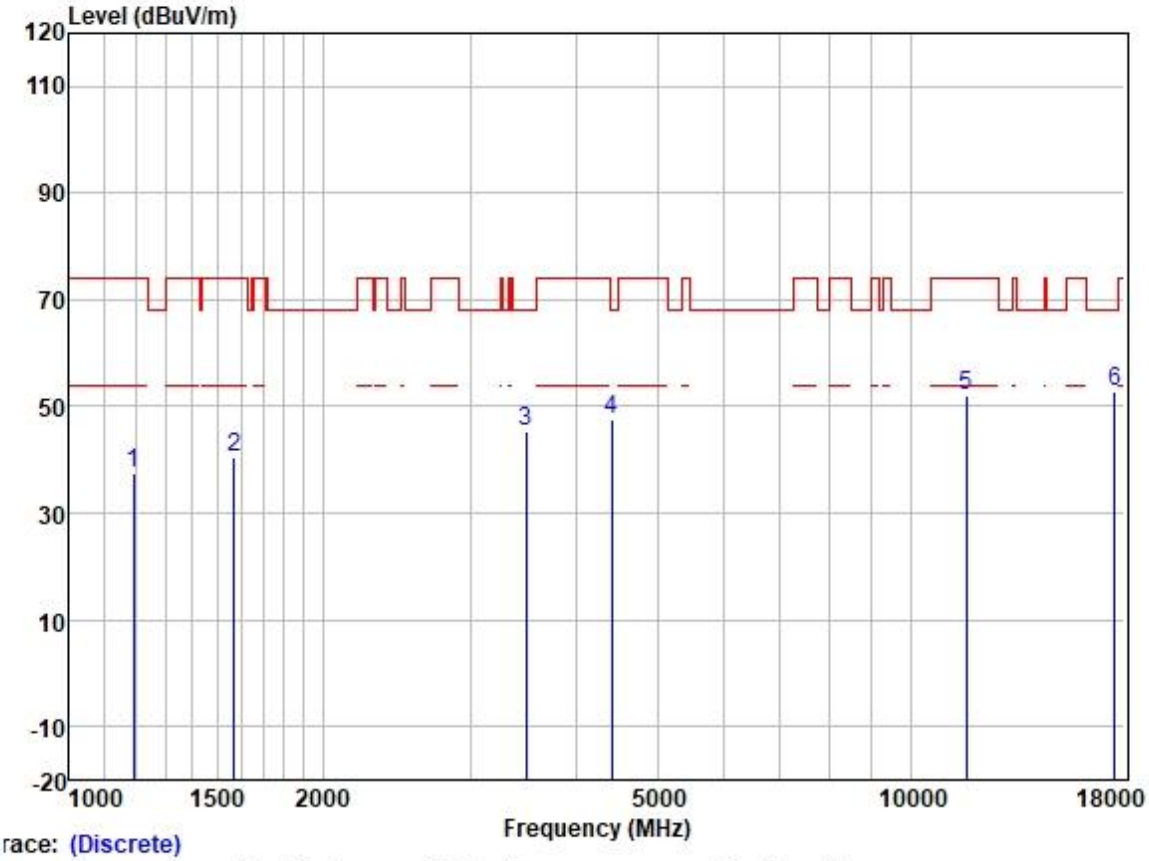
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	49.46	25.19	2.58	38.31	38.92	68.20	-29.28	HORIZONTAL	Peak
2	1560.673	47.44	25.54	2.80	38.03	37.75	74.00	-36.25	HORIZONTAL	Peak
3	3475.541	49.19	28.89	4.25	36.95	45.38	68.20	-22.82	HORIZONTAL	Peak
4	4417.841	49.03	30.70	4.74	36.81	47.66	68.20	-20.54	HORIZONTAL	Peak
5	11650.000	41.81	39.65	8.35	37.13	52.68	74.00	-21.32	HORIZONTAL	Peak
6	17475.000	33.18	43.90	10.77	35.32	52.53	68.20	-15.67	HORIZONTAL	Peak

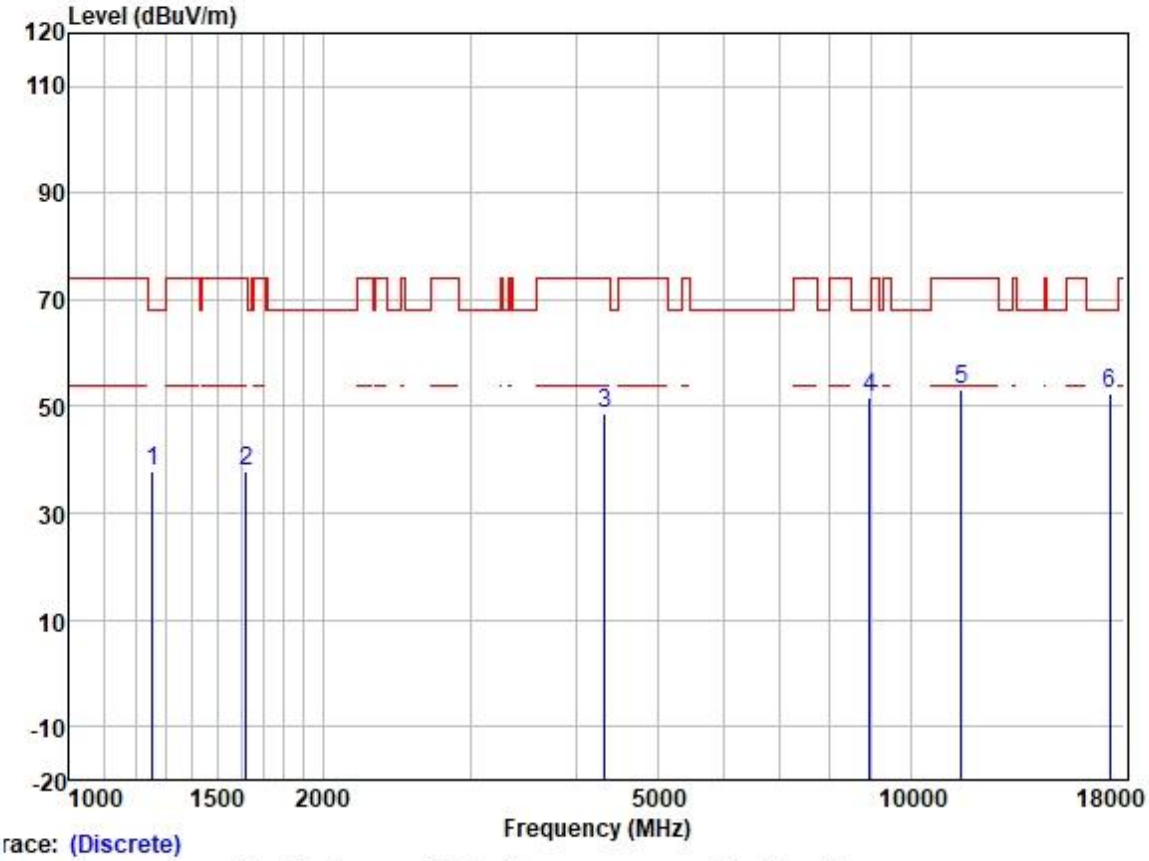
Test Mode: 25; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1192.811	48.79	24.65	2.36	38.39	37.41	74.00	-36.59	VERTICAL	Peak
2	1569.721	50.01	25.55	2.80	38.00	40.36	74.00	-33.64	VERTICAL	Peak
3	3495.691	49.22	28.90	4.30	36.94	45.48	68.20	-22.72	VERTICAL	Peak
4	4417.841	49.07	30.70	4.74	36.81	47.70	68.20	-20.50	VERTICAL	Peak
5	11650.000	41.16	39.65	8.35	37.13	52.03	74.00	-21.97	VERTICAL	Peak
6	17475.000	33.29	43.90	10.77	35.32	52.64	68.20	-15.56	VERTICAL	Peak

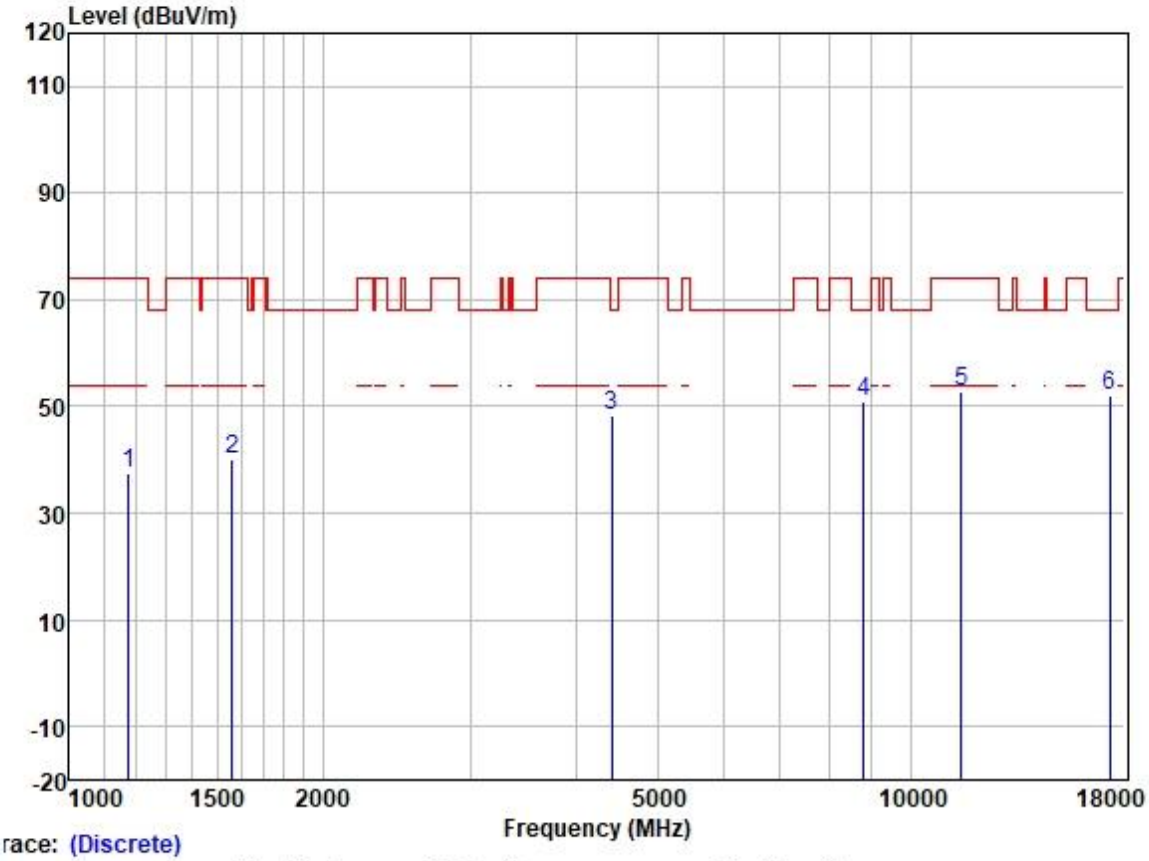
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1256.512	48.79	25.05	2.38	38.35	37.87	68.20	-30.33	HORIZONTAL	Peak
2	1620.431	47.50	25.60	2.80	37.95	37.95	74.00	-36.05	HORIZONTAL	Peak
3	4329.354	50.28	30.54	4.67	36.81	48.68	74.00	-25.32	HORIZONTAL	Peak
4	8943.274	44.36	37.38	7.49	37.51	51.72	68.20	-16.48	HORIZONTAL	Peak
5	11510.000	41.86	39.90	8.41	37.15	53.02	74.00	-20.98	HORIZONTAL	Peak
6	17265.000	34.21	43.21	10.24	35.33	52.33	68.20	-15.87	HORIZONTAL	Peak

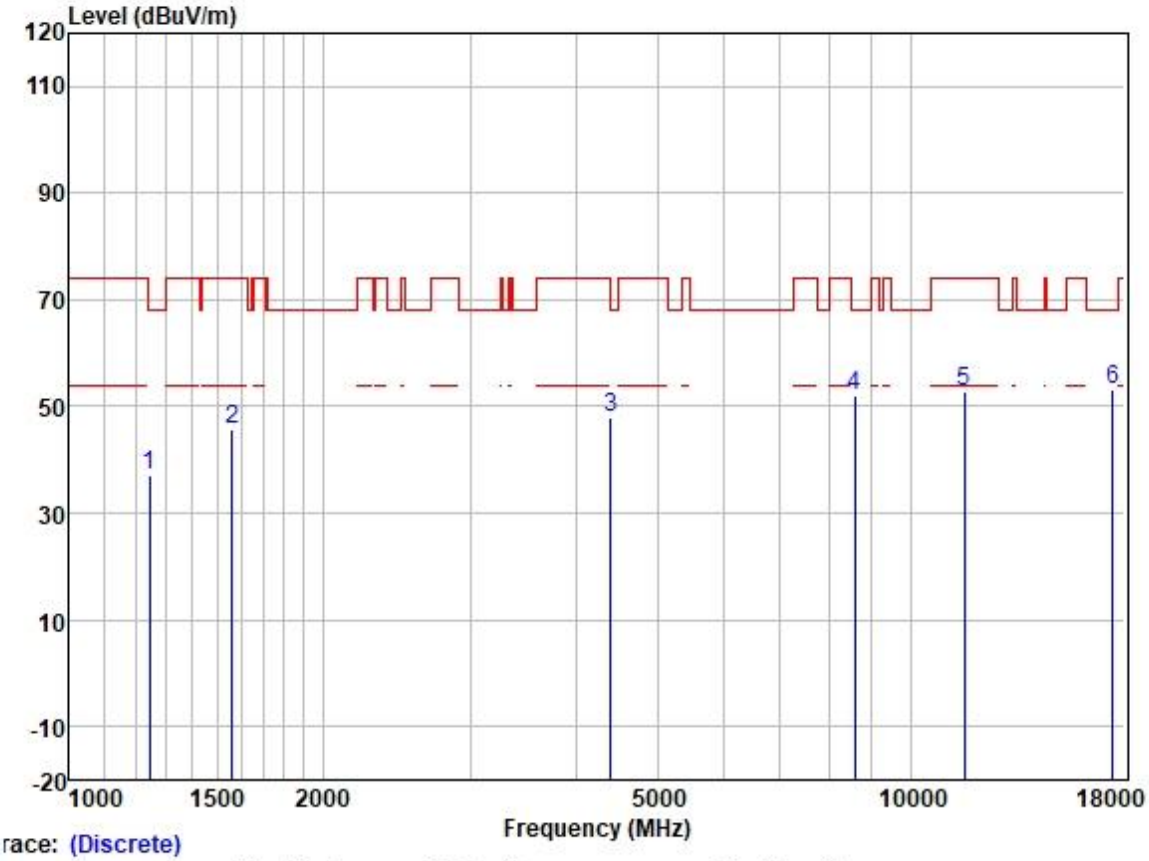
Test Mode: 25; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1175.697	48.94	24.58	2.38	38.40	37.50	74.00	-36.50	VERTICAL	Peak
2	1560.673	49.82	25.54	2.80	38.03	40.13	74.00	-33.87	VERTICAL	Peak
3	4417.841	49.69	30.70	4.74	36.81	48.32	68.20	-19.88	VERTICAL	Peak
4	8789.516	43.75	37.33	7.24	37.54	50.78	68.20	-17.42	VERTICAL	Peak
5	11510.000	41.51	39.90	8.41	37.15	52.67	74.00	-21.33	VERTICAL	Peak
6	17265.000	33.99	43.21	10.24	35.33	52.11	68.20	-16.09	VERTICAL	Peak

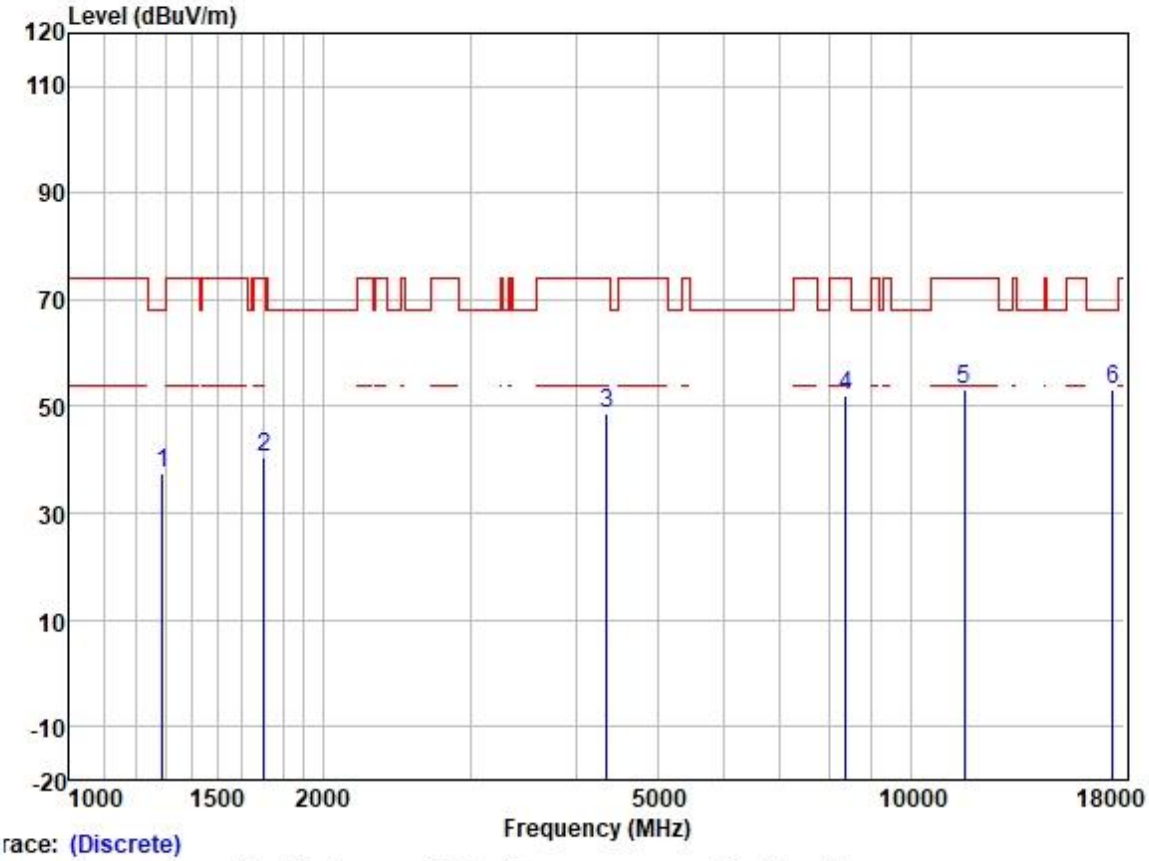
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1245.663	48.15	25.00	2.33	38.35	37.13	68.20	-31.07	HORIZONTAL	Peak
2	1560.673	55.28	25.54	2.80	38.03	45.59	74.00	-28.41	HORIZONTAL	Peak
3	4405.090	49.50	30.68	4.70	36.81	48.07	68.20	-20.13	HORIZONTAL	Peak
4	8588.607	45.68	37.23	6.84	37.56	52.19	68.20	-16.01	HORIZONTAL	Peak
5	11590.000	41.72	39.72	8.37	37.14	52.67	74.00	-21.33	HORIZONTAL	Peak
6	17385.000	34.40	43.57	10.53	35.32	53.18	68.20	-15.02	HORIZONTAL	Peak

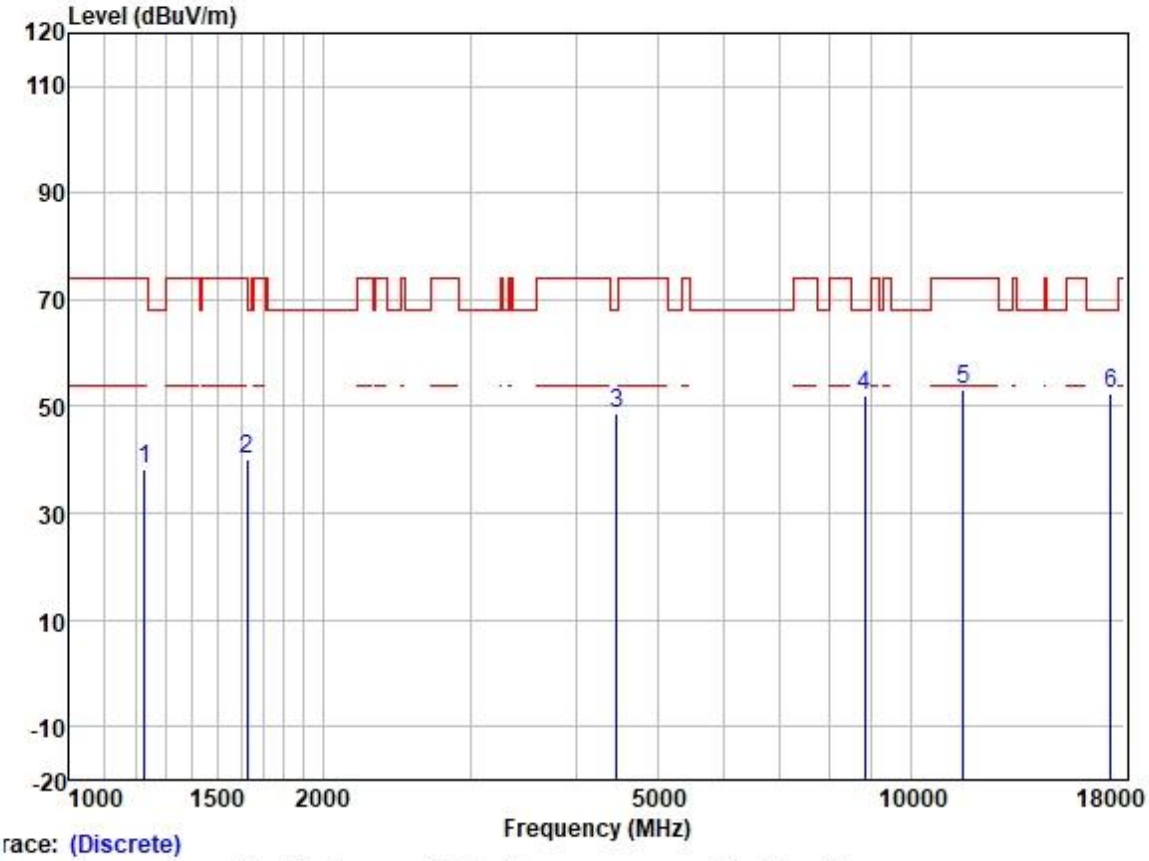
Test Mode: 25; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	47.93	25.17	2.55	38.31	37.34	68.20	-30.86	VERTICAL	Peak
2	1702.042	49.99	25.72	2.80	37.89	40.62	74.00	-33.38	VERTICAL	Peak
3	4354.454	50.15	30.59	4.68	36.81	48.61	74.00	-25.39	VERTICAL	Peak
4	8368.069	46.07	37.06	6.59	37.58	52.14	74.00	-21.86	VERTICAL	Peak
5	11590.000	42.17	39.72	8.37	37.14	53.12	74.00	-20.88	VERTICAL	Peak
6	17385.000	34.25	43.57	10.53	35.32	53.03	68.20	-15.17	VERTICAL	Peak

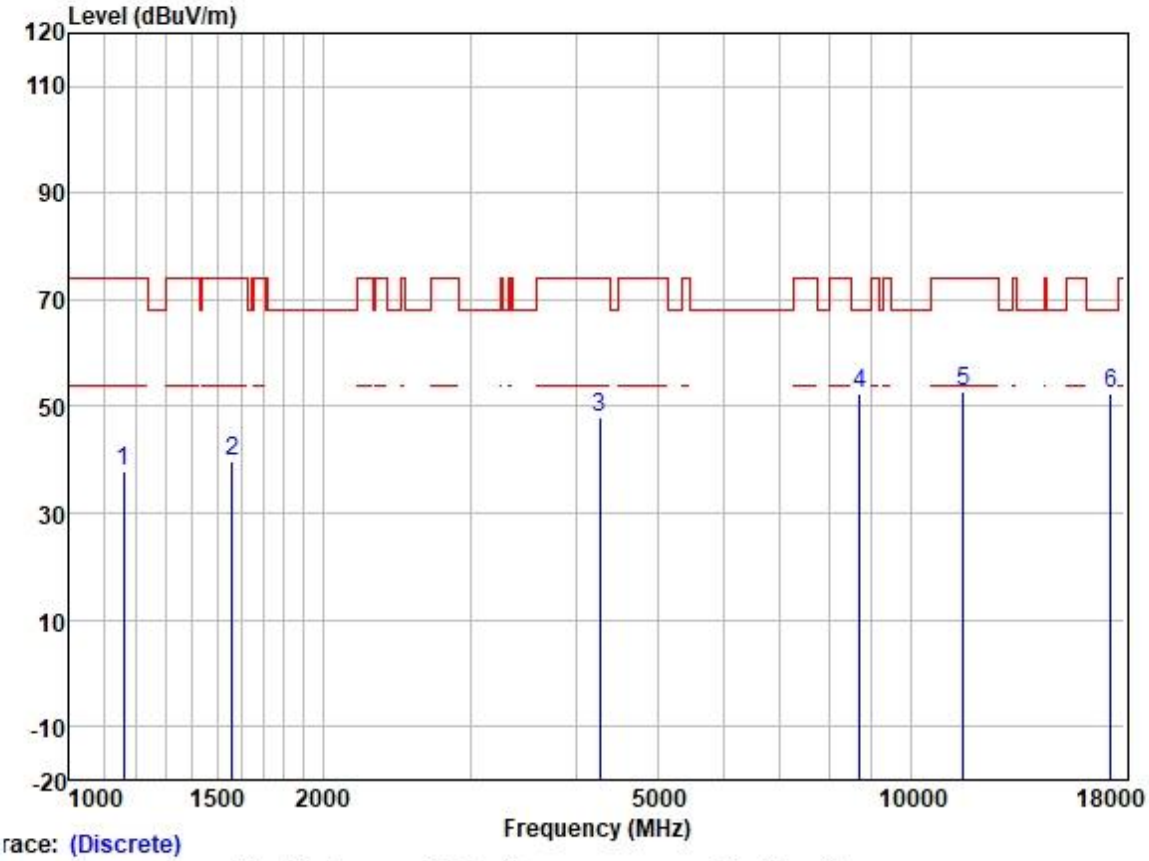
Test Mode: 25; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1227.791	49.57	24.88	2.31	38.37	38.39	74.00	-35.61	HORIZONTAL	Peak
2	1625.121	49.57	25.61	2.80	37.95	40.03	74.00	-33.97	HORIZONTAL	Peak
3	4469.214	49.75	30.77	4.93	36.81	48.64	68.20	-19.56	HORIZONTAL	Peak
4	8814.957	45.12	37.34	7.29	37.53	52.22	68.20	-15.98	HORIZONTAL	Peak
5	11550.000	42.08	39.84	8.40	37.14	53.18	74.00	-20.82	HORIZONTAL	Peak
6	17325.000	33.86	43.40	10.39	35.32	52.33	68.20	-15.87	HORIZONTAL	Peak

Test Mode: 25; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1158.828	49.34	24.52	2.40	38.42	37.84	74.00	-36.16	VERTICAL	Peak
2	1560.673	49.52	25.54	2.80	38.03	39.83	74.00	-34.17	VERTICAL	Peak
3	4267.237	49.60	30.38	4.63	36.81	47.80	74.00	-26.20	VERTICAL	Peak
4	8713.630	45.43	37.30	7.07	37.55	52.25	68.20	-15.95	VERTICAL	Peak
5	11550.000	41.83	39.84	8.40	37.14	52.93	74.00	-21.07	VERTICAL	Peak
6	17325.000	34.09	43.40	10.39	35.32	52.56	68.20	-15.64	VERTICAL	Peak

7.7 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.

7.7.1 E.U.T. Operation

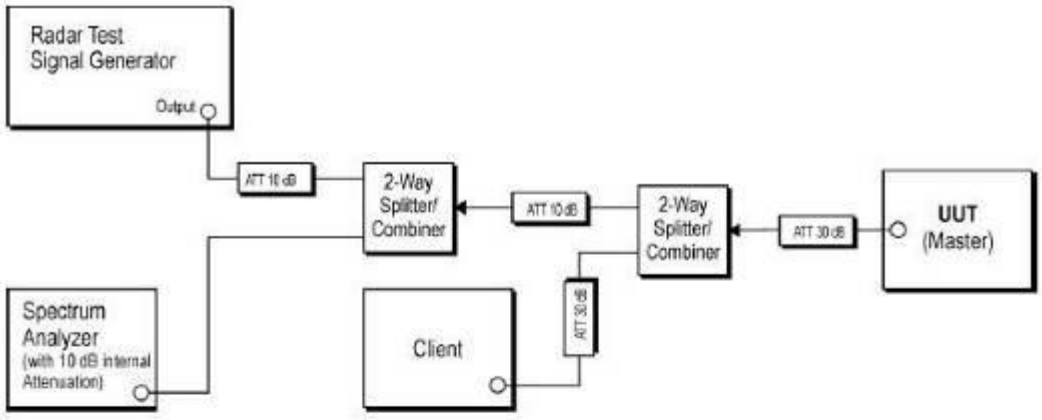
Operating Environment:

Temperature: 21.5 °C Humidity: 55.4 % RH Atmospheric Pressure: 1010 mbar

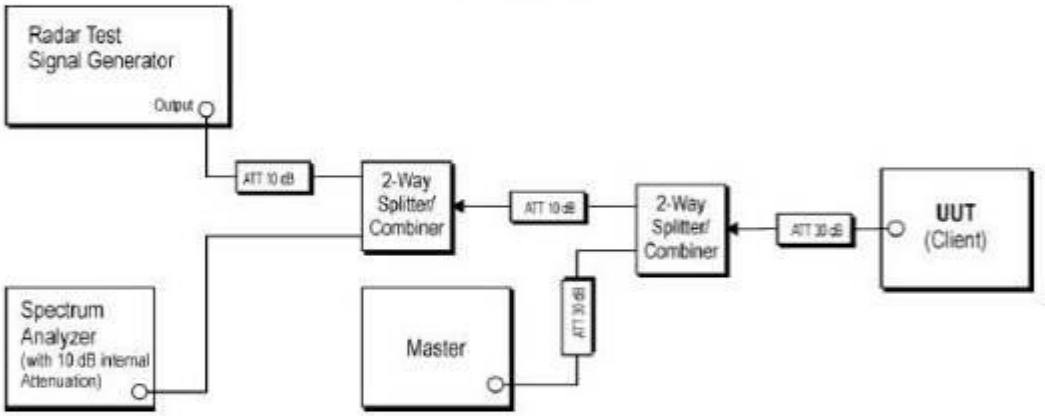
7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	Normal operating_Keep the EUT communication with the companion device.

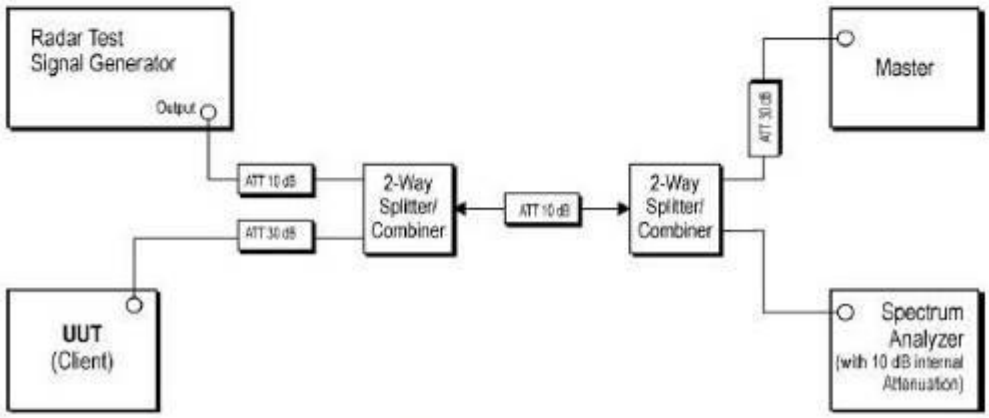
7.7.3 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

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 X 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

7.8 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.

7.8.1 E.U.T. Operation

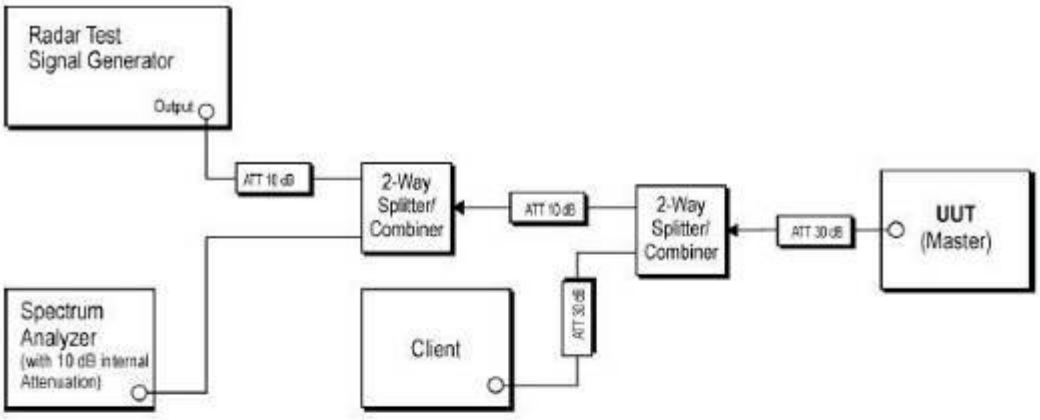
Operating Environment:

Temperature: 21.5 °C Humidity: 55.4 % RH Atmospheric Pressure: 1010 mbar

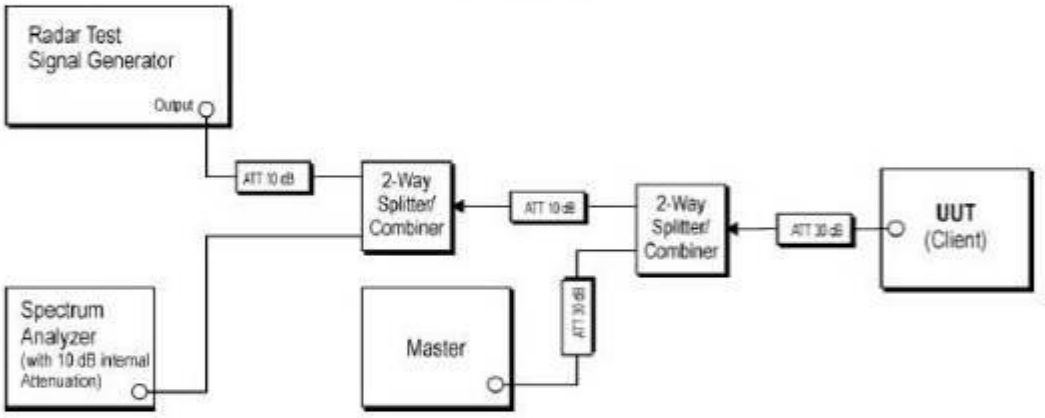
7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	Normal operating_Keep the EUT communication with the companion device.

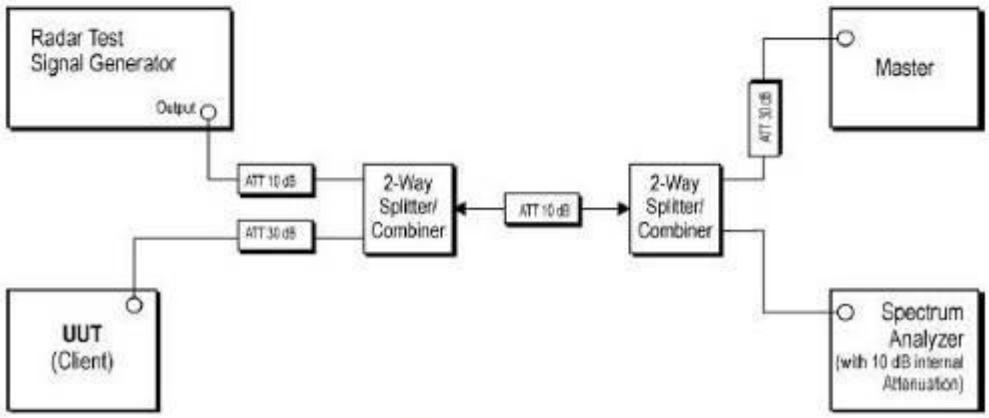
7.8.3 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

7.8.4 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 X 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

7.9 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.			

7.9.1 E.U.T. Operation

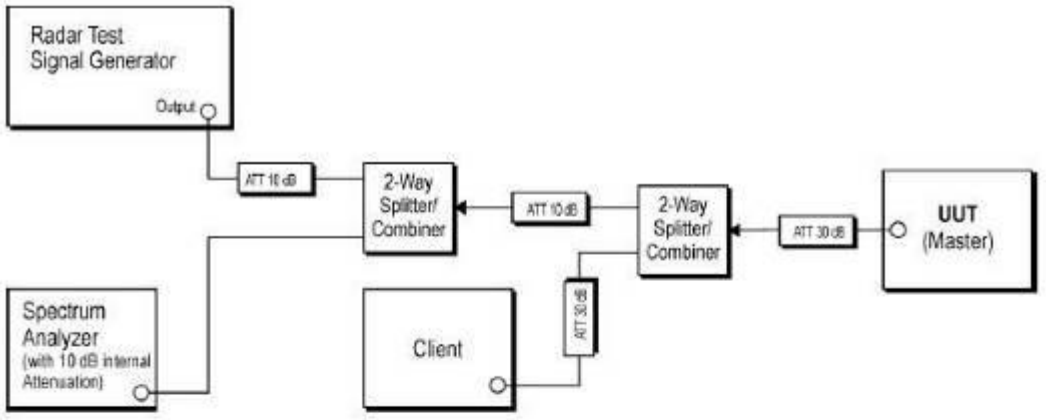
Operating Environment:

Temperature: 21.5 °C Humidity: 55.4 % RH Atmospheric Pressure: 1010 mbar

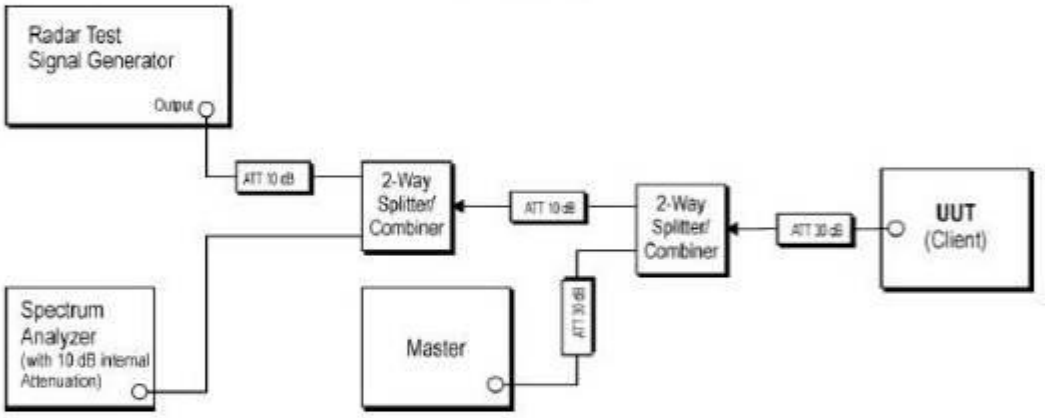
7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	Normal operating_Keep the EUT communication with the companion device.

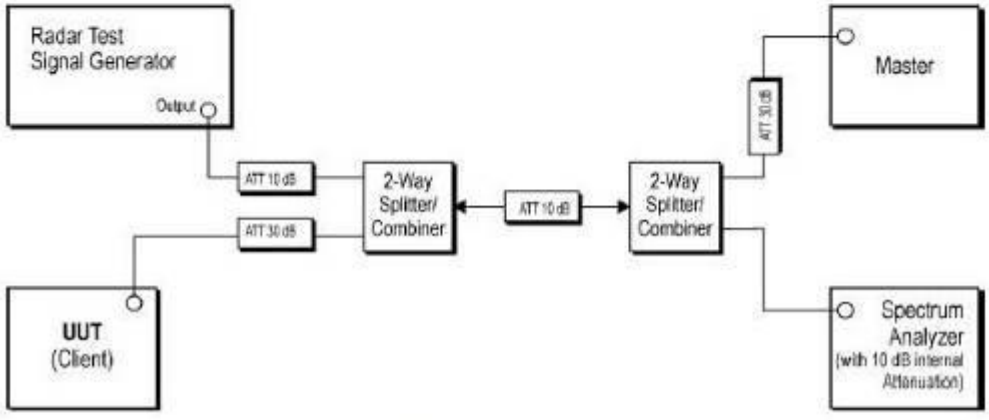
7.9.3 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

7.9.4 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 X 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

8 Test Setup Photo

Refer to appendix – Test Setup Photos for GZCR2108020924AT

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center, EEC Laboratory
No.198 Kezhu Road, Scientech 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

9 EUT Constructional Details (EUT Photos)

Refer to appendix - External and Internal Photos for GZCR2108020924AT

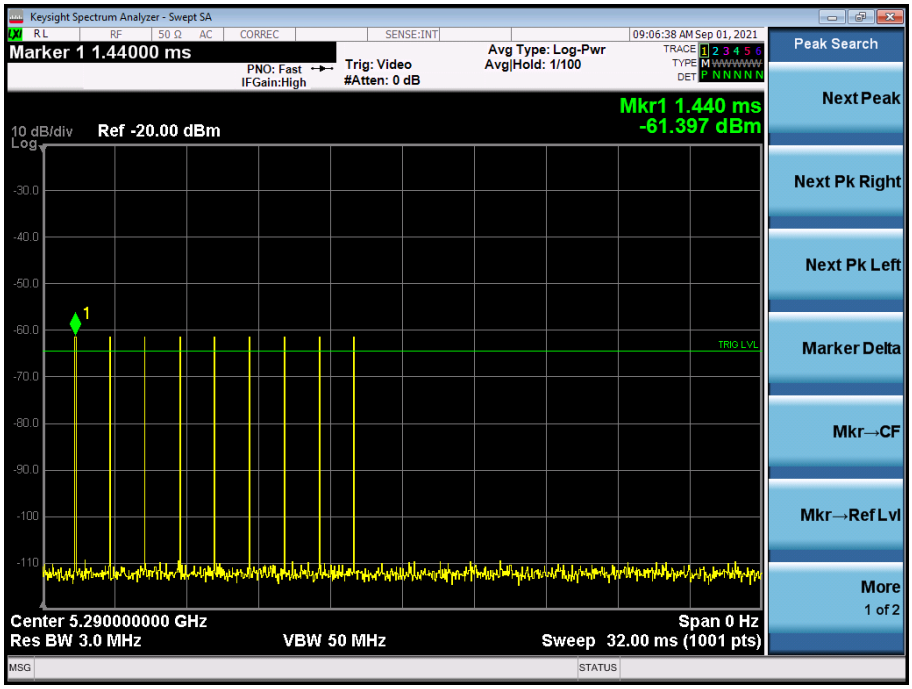
10 Appendix-DFS

(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

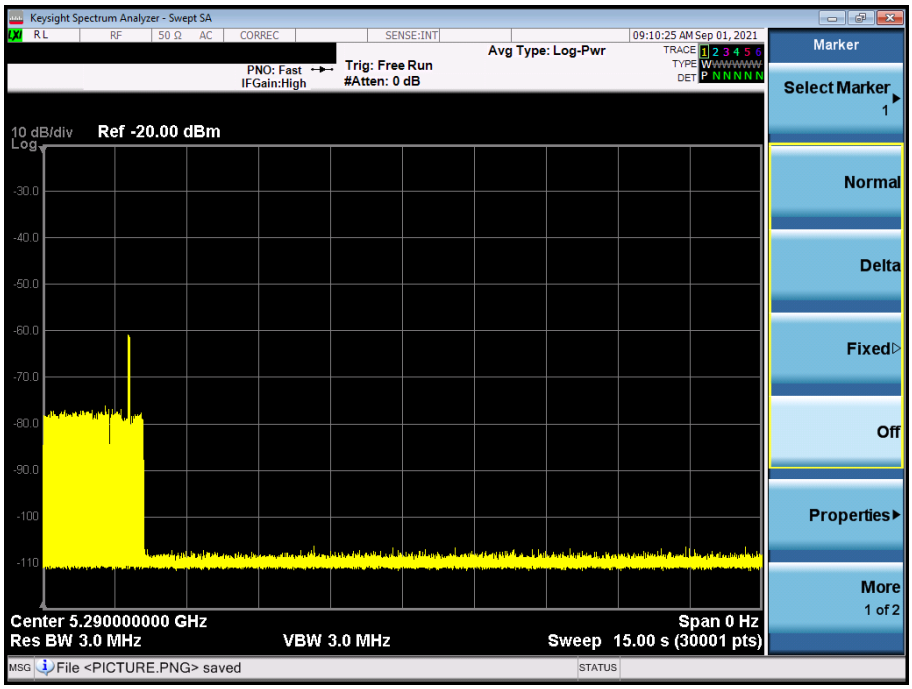
Radar Type 0

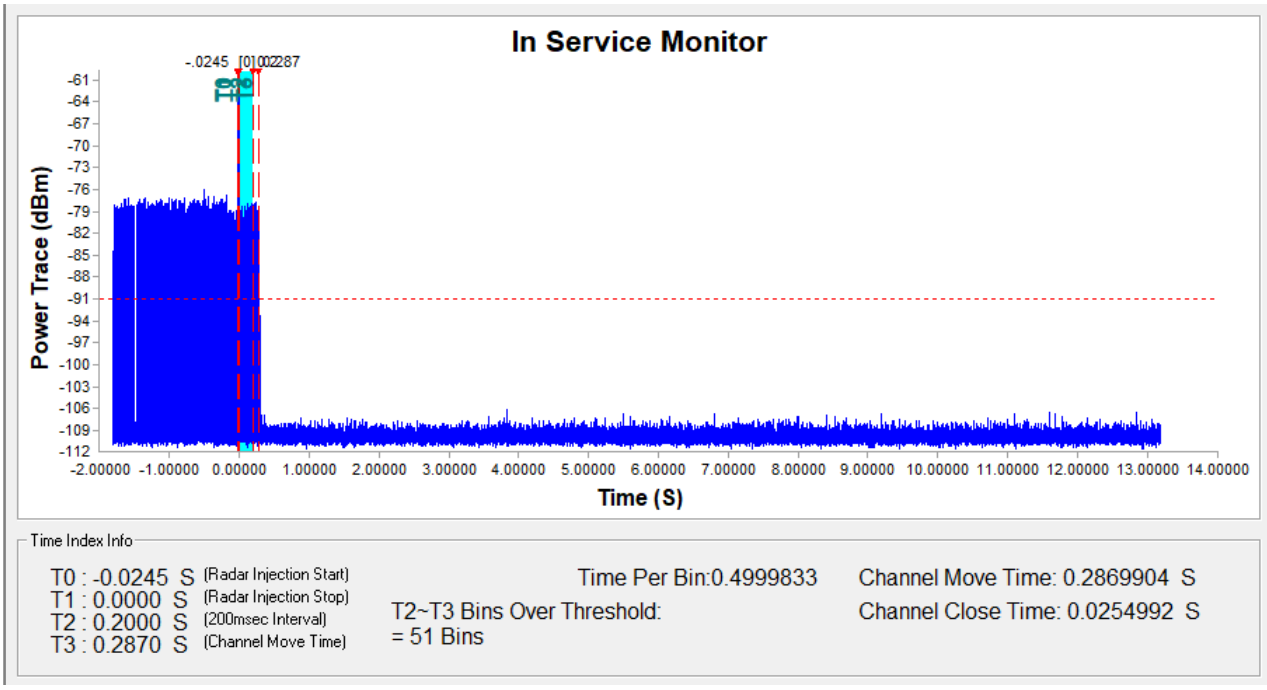


Test Data:

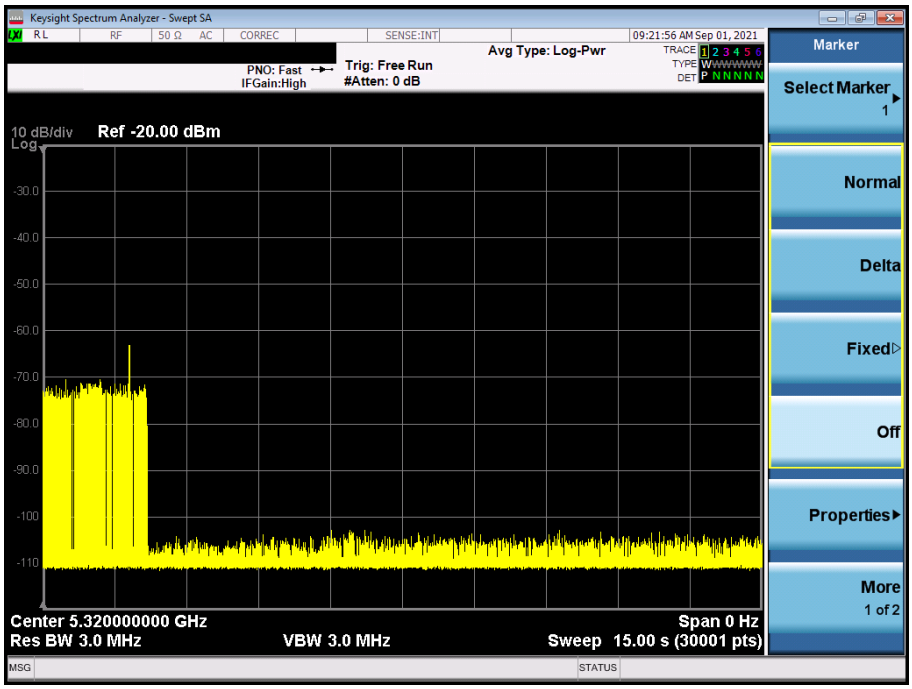
BW/Channel	Test Item	Test data	Limit	Results
20MHz/ 5320MHz	Non-occupancy period	Refer to test plots	>30 min	pass
	Channel Move Time	0.3574s	＜10 s	Pass
	Channel Closing Transmission Time	0.0189s	＜60ms	Pass
40MHz/ 5510MHz	Non-occupancy period	Refer to test plots	>30 min	pass
	Channel Move Time	0.3254s	＜10 s	Pass
	Channel Closing Transmission Time	0.0464s	＜60ms	Pass
80MHz/ 5290MHz	Non-occupancy period	Refer to test plots	>30 min	pass
	Channel Move Time	0.2869s	＜10 s	Pass
	Channel Closing Transmission Time	0.0254s	＜60ms	Pass
160MHz/ 5570MHz	Non-occupancy period	Refer to test plots	>30 min	pass
	Channel Move Time	0.5354s	＜10 s	Pass
	Channel Closing Transmission Time	0.0939s	＜60ms	Pass

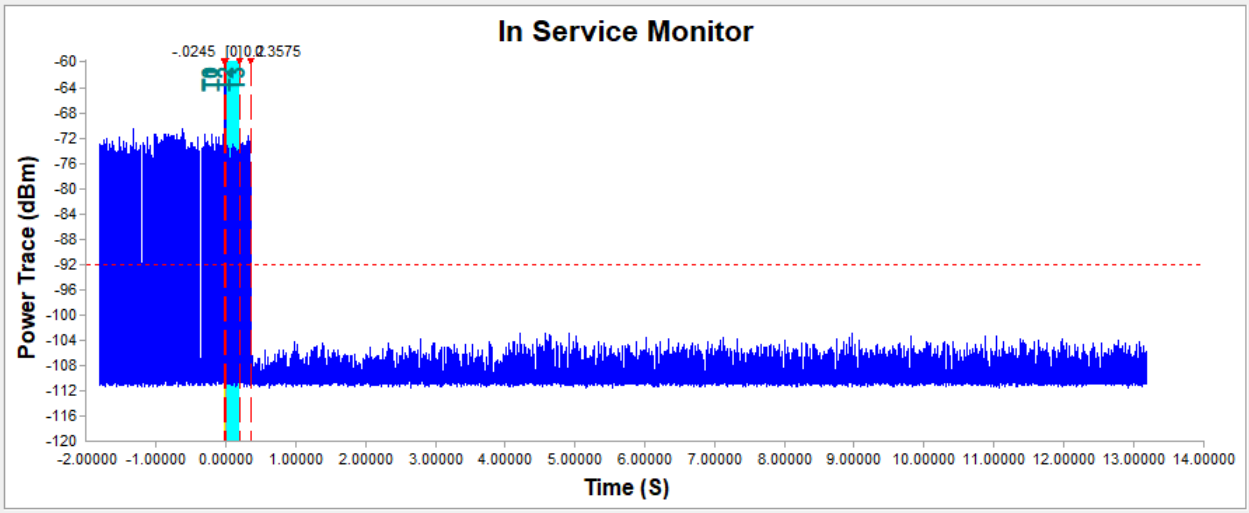
Test plots as follows(5290MHz):





Test plots as follows(5320MHz):





Time Index Info

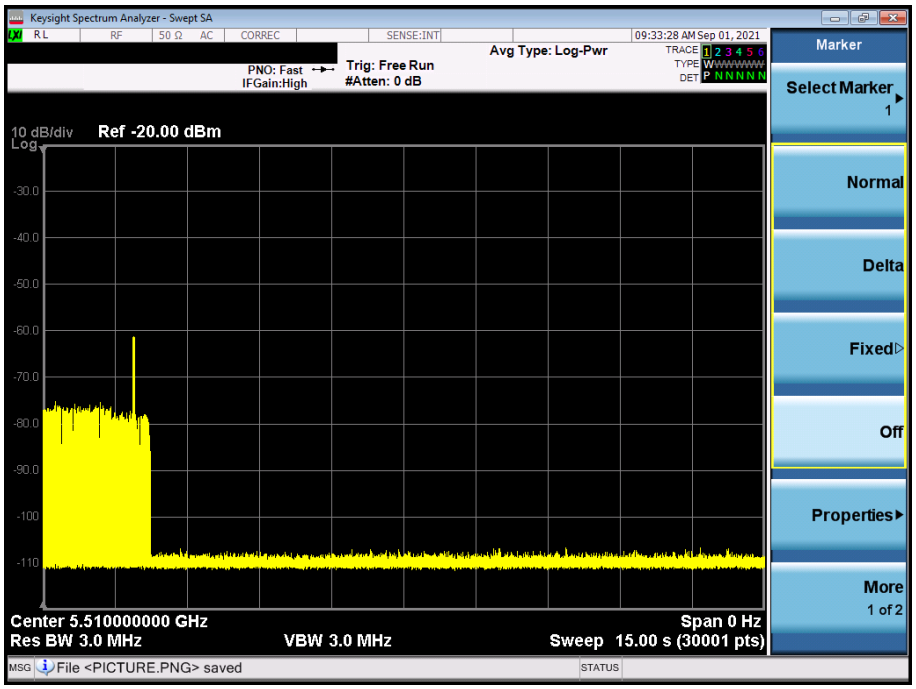
T0 : -0.0245 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.3575 S (Channel Move Time)

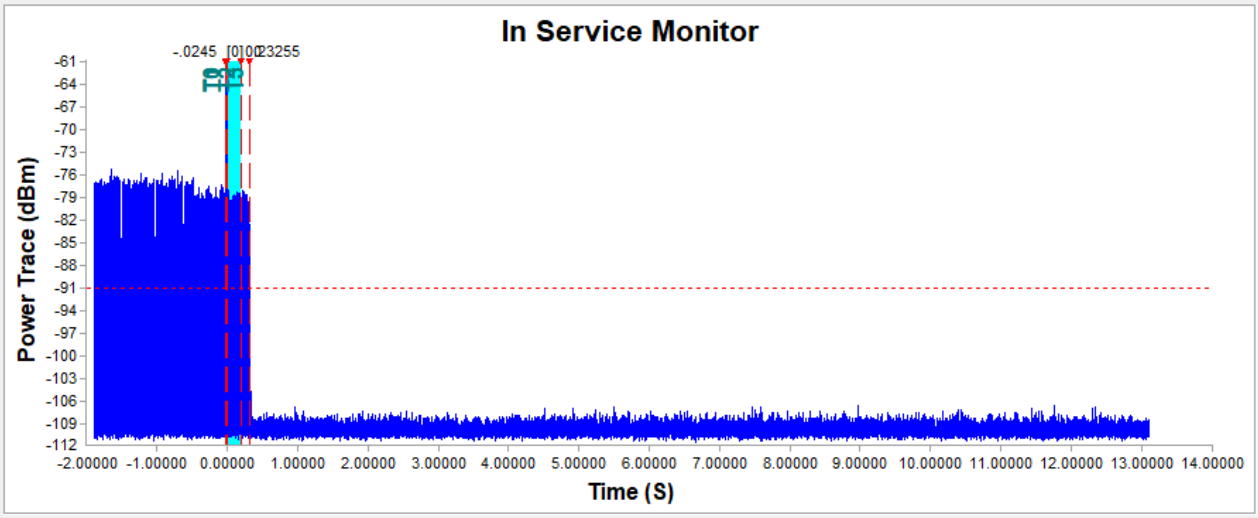
Time Per Bin:0.4999833

T2~T3 Bins Over Threshold:
= 38 Bins

Channel Move Time: 0.3574881 S
Channel Close Time: 0.0189994 S

Test plots as follows(5510MHz):





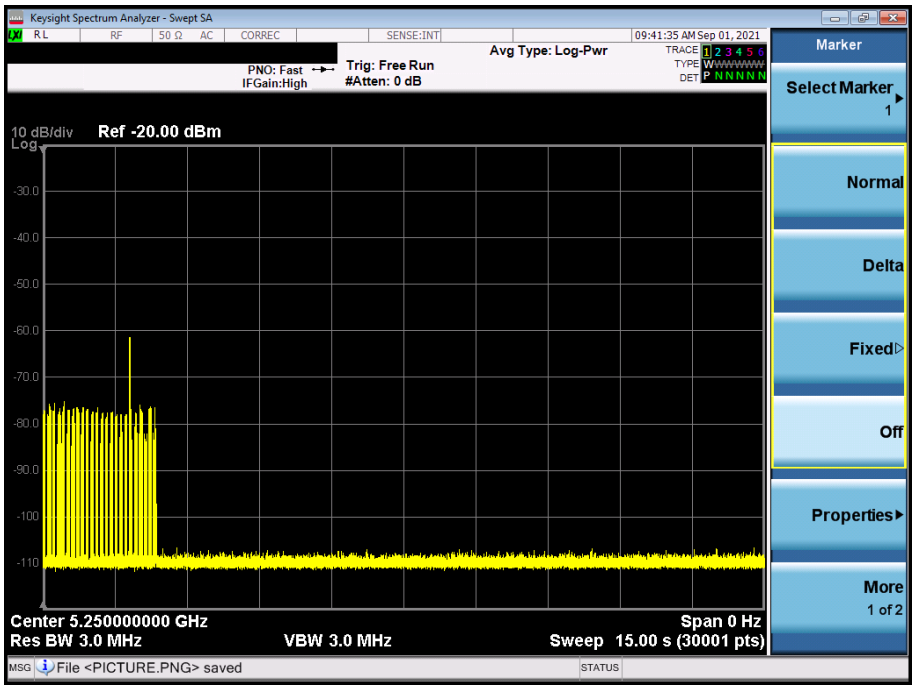
Time Index Info

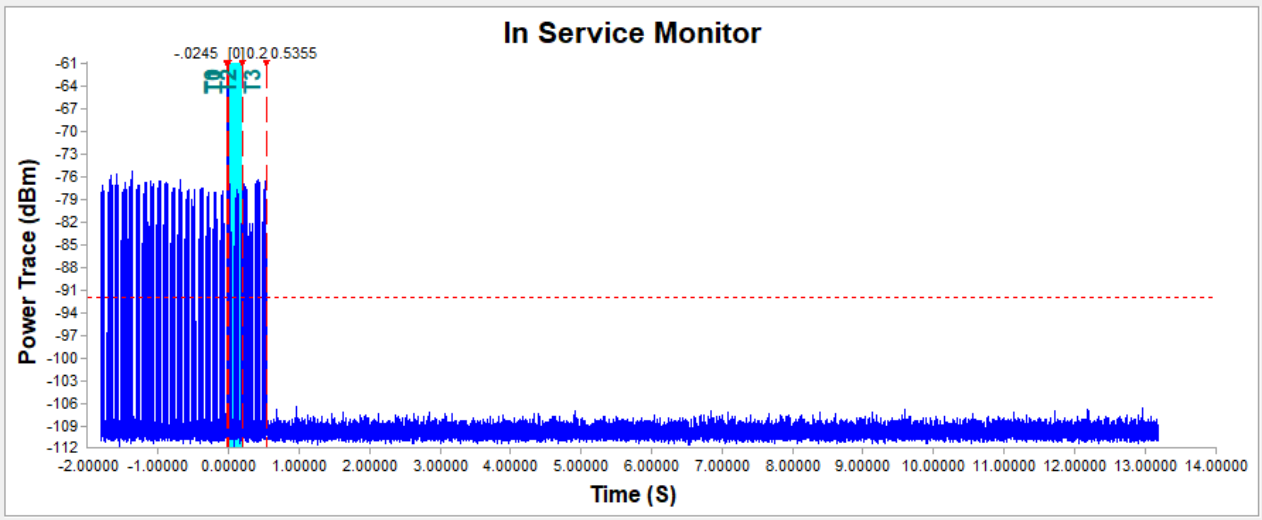
T0 : -0.0245 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.3255 S (Channel Move Time)

Time Per Bin:0.4999833
T2~T3 Bins Over Threshold:
= 93 Bins

Channel Move Time: 0.3254892 S
Channel Close Time: 0.0464985 S

Test plots as follows(5250MHz):





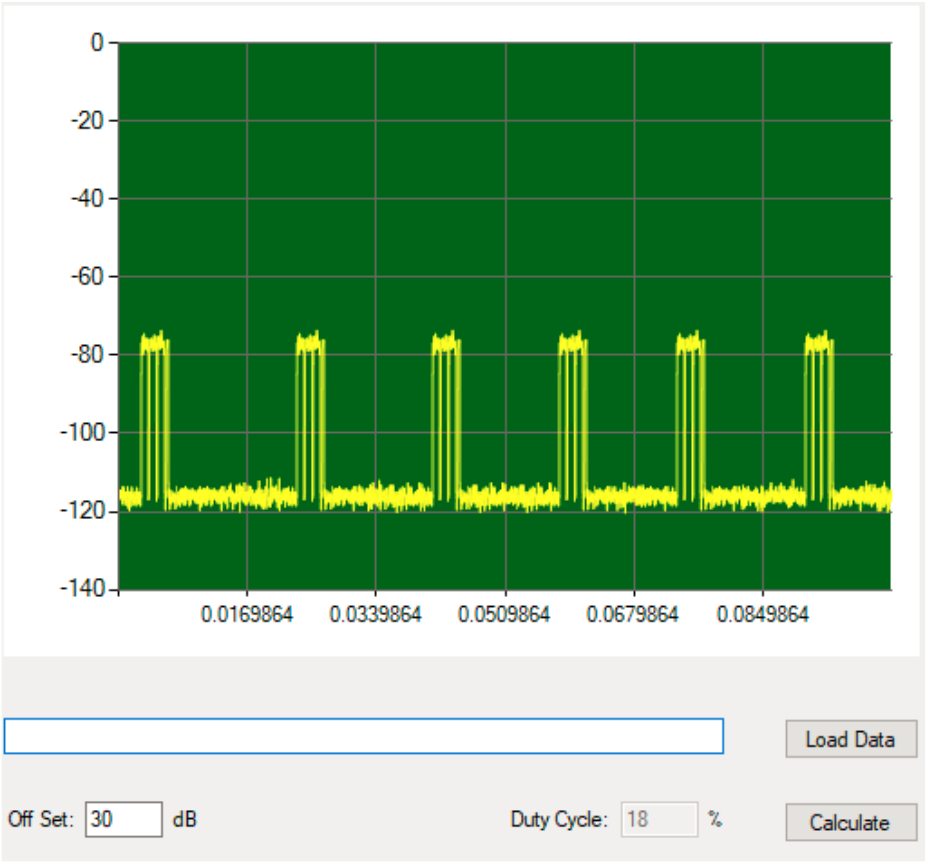
Time Index Info

T0 : -0.0245 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.5355 S (Channel Move Time)

Time Per Bin:0.4999833
T2~T3 Bins Over Threshold:
= 188 Bins

Channel Move Time: 0.5354822 S
Channel Close Time: 0.0939969 S

Duty Cycle:



11 Appendix-Power & PSD

1. Maximum Conducted Output Power

1.1 Power

1.1.1 Test Result

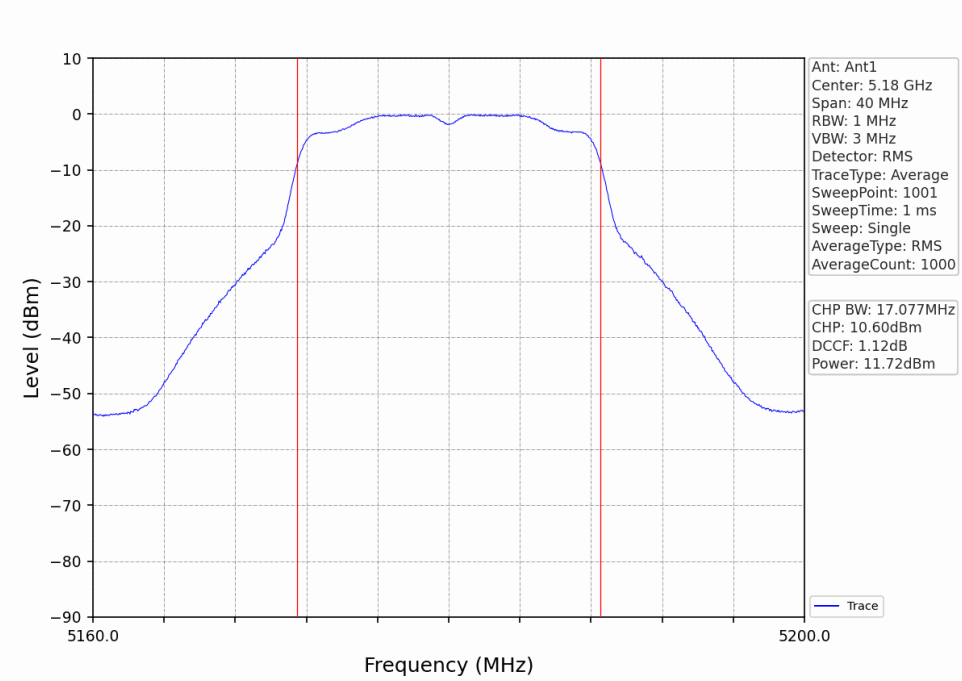
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Conducted Output Power (dBm)				Verdict
					Ant1	Ant2	MIMO	Limit	
802.11a	MIMO	5180	/	/	11.72	11.67	/	<=21.75	Pass
		5200	/	/	11.70	11.67	/	<=21.75	Pass
		5240	/	/	11.48	11.61	/	<=21.75	Pass
		5260	/	/	15.56	16.01	/	<=21.75	Pass
		5300	/	/	15.87	16.35	/	<=21.75	Pass
		5320	/	/	16.10	16.65	/	<=21.75	Pass
		5500	/	/	15.39	15.63	/	<=21.75	Pass
		5580	/	/	15.66	15.68	/	<=21.75	Pass
		5700	/	/	16.17	16.24	/	<=21.75	Pass
		5745	/	/	16.05	16.30	/	<=27.77	Pass
		5785	/	/	15.89	16.57	/	<=27.77	Pass
		5825	/	/	15.92	16.11	/	<=27.77	Pass
802.11n (HT20)	MIMO	5180	/	/	12.17	11.95	15.07	<=21.75	Pass
		5200	/	/	12.20	12.11	15.17	<=21.75	Pass
		5240	/	/	12.00	12.08	15.05	<=21.75	Pass
		5260	/	/	15.55	15.95	18.76	<=21.75	Pass
		5300	/	/	15.78	16.18	18.99	<=21.75	Pass
		5320	/	/	15.76	16.51	19.16	<=21.75	Pass
		5500	/	/	15.23	15.47	18.36	<=21.75	Pass
		5580	/	/	15.54	15.59	18.58	<=21.75	Pass
		5700	/	/	15.93	16.04	19.00	<=21.75	Pass
		5745	/	/	15.86	16.12	19.00	<=27.77	Pass
		5785	/	/	15.76	16.42	19.11	<=27.77	Pass
		5825	/	/	15.78	15.93	18.87	<=27.77	Pass
802.11n (HT40)	MIMO	5190	/	/	15.42	15.56	18.50	<=21.75	Pass
		5230	/	/	14.65	14.94	17.81	<=21.75	Pass
		5270	/	/	15.20	15.47	18.35	<=21.75	Pass
		5310	/	/	15.46	15.81	18.65	<=21.75	Pass
		5510	/	/	15.05	15.07	18.07	<=21.75	Pass
		5550	/	/	15.01	14.90	17.97	<=21.75	Pass
		5670	/	/	16.27	16.30	19.30	<=21.75	Pass

		5755	/	/	15.43	15.81	18.63	<=27.77	Pass
		5795	/	/	15.41	15.91	18.68	<=27.77	Pass
802.11ac (VHT20)	MIMO	5180	/	/	11.76	11.48	14.63	<=21.75	Pass
		5200	/	/	10.58	10.52	13.56	<=21.75	Pass
		5240	/	/	10.37	10.50	13.45	<=21.75	Pass
		5260	/	/	15.53	16.03	18.80	<=21.75	Pass
		5300	/	/	15.80	16.31	19.07	<=21.75	Pass
		5320	/	/	16.03	16.61	19.34	<=21.75	Pass
		5500	/	/	14.26	14.49	17.39	<=21.75	Pass
		5580	/	/	14.57	14.64	17.62	<=21.75	Pass
		5700	/	/	15.10	15.11	18.12	<=21.75	Pass
		5745	/	/	14.92	15.20	18.07	<=27.77	Pass
		5785	/	/	14.79	15.56	18.20	<=27.77	Pass
		5825	/	/	14.85	15.03	17.95	<=27.77	Pass
802.11ac (VHT40)	MIMO	5190	/	/	15.93	16.08	19.02	<=21.75	Pass
		5230	/	/	15.07	15.45	18.27	<=21.75	Pass
		5270	/	/	15.72	16.03	18.89	<=21.75	Pass
		5310	/	/	15.91	16.30	19.12	<=21.75	Pass
		5510	/	/	15.64	15.63	18.65	<=21.75	Pass
		5550	/	/	15.62	15.44	18.54	<=21.75	Pass
		5670	/	/	15.25	16.11	18.71	<=21.75	Pass
		5755	/	/	15.98	16.34	19.17	<=27.77	Pass
		5795	/	/	16.02	16.43	19.24	<=27.77	Pass
802.11ac (VHT80)	MIMO	5210	/	/	15.94	16.18	19.07	<=21.75	Pass
		5290	/	/	15.60	15.85	18.74	<=21.75	Pass
		5530	/	/	15.90	15.78	18.85	<=21.75	Pass
		5610	/	/	16.03	16.03	19.04	<=21.75	Pass
		5775	/	/	16.21	16.74	19.49	<=27.77	Pass
802.11ac (VHT160)	MIMO	5570	/	/	15.56	15.54	18.56	<=21.75	Pass
		5250	/	/	16.52	16.73	**19.64**	<=21.75	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	11.51	11.32	14.43	<=21.75	Pass
		5200	RU242	Left	11.34	11.28	14.32	<=21.75	Pass
		5240	RU242	Left	11.21	11.32	14.28	<=21.75	Pass
		5260	RU242	Left	15.23	15.67	18.47	<=21.75	Pass
		5300	RU242	Left	15.47	15.93	18.72	<=21.75	Pass
		5320	RU242	Left	15.72	16.24	19.00	<=21.75	Pass
		5500	RU242	Left	14.94	14.97	17.97	<=21.75	Pass
		5580	RU242	Left	15.28	15.15	18.23	<=21.75	Pass
		5700	RU242	Left	15.81	15.34	18.59	<=21.75	Pass
		5745	RU242	Left	15.63	15.88	18.77	<=27.77	Pass
		5785	RU242	Left	15.49	16.22	18.88	<=27.77	Pass
		5825	RU242	Left	15.53	15.71	18.63	<=27.77	Pass

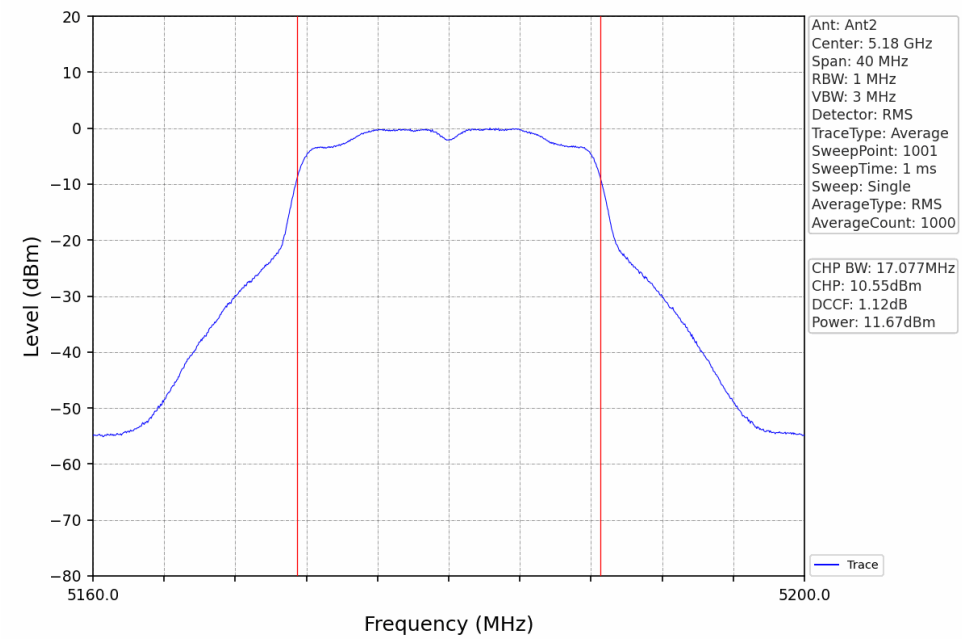
802.11ax (HEW40)	MIMO	5190	RU484	Left	15.61	15.79	18.71	<=21.75	Pass
		5230	RU484	Left	14.84	15.15	18.01	<=21.75	Pass
		5270	RU484	Left	15.39	15.60	18.51	<=21.75	Pass
		5310	RU484	Left	15.64	15.97	18.82	<=21.75	Pass
		5510	RU484	Left	15.33	15.29	18.32	<=21.75	Pass
		5550	RU484	Left	15.29	15.12	18.22	<=21.75	Pass
		5670	RU484	Left	15.86	15.85	18.87	<=21.75	Pass
		5755	RU484	Left	15.66	15.99	18.84	<=27.77	Pass
		5795	RU484	Left	15.78	16.16	18.98	<=27.77	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	15.66	15.90	18.79	<=21.75	Pass
		5290	RU996	Left	15.29	15.58	18.45	<=21.75	Pass
		5530	RU996	Left	15.68	15.48	18.59	<=21.75	Pass
		5610	RU996	Left	15.92	15.78	18.86	<=21.75	Pass
		5775	RU996	Left	15.98	16.44	19.23	<=21.75	Pass
802.11ax (HEW160)	MIMO	5570	2xRU996	Left	15.34	15.38	18.37	<=21.75	Pass
		5250	2xRU996	Left	16.30	16.58	19.45	<=21.75	Pass
Note1: Antenna Gain: Ant1: 5.22dBi; Ant2: 5.22dBi; Note2: Directional gain= 5.22+10log (2) =8.23 dBi									

3.1.2 Test Graph

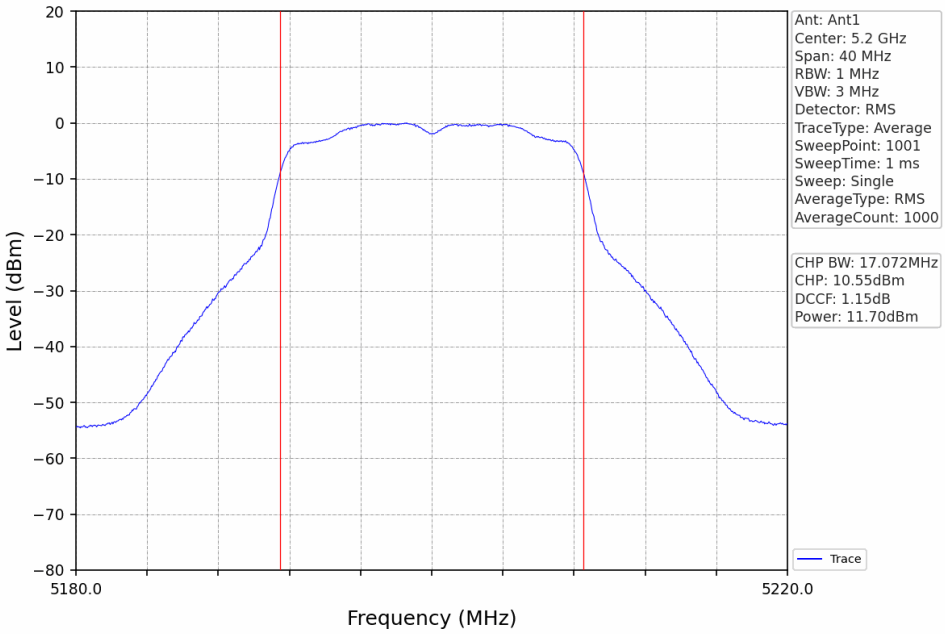
802.11a_LCH_5180MHz_Ant1_NTNV



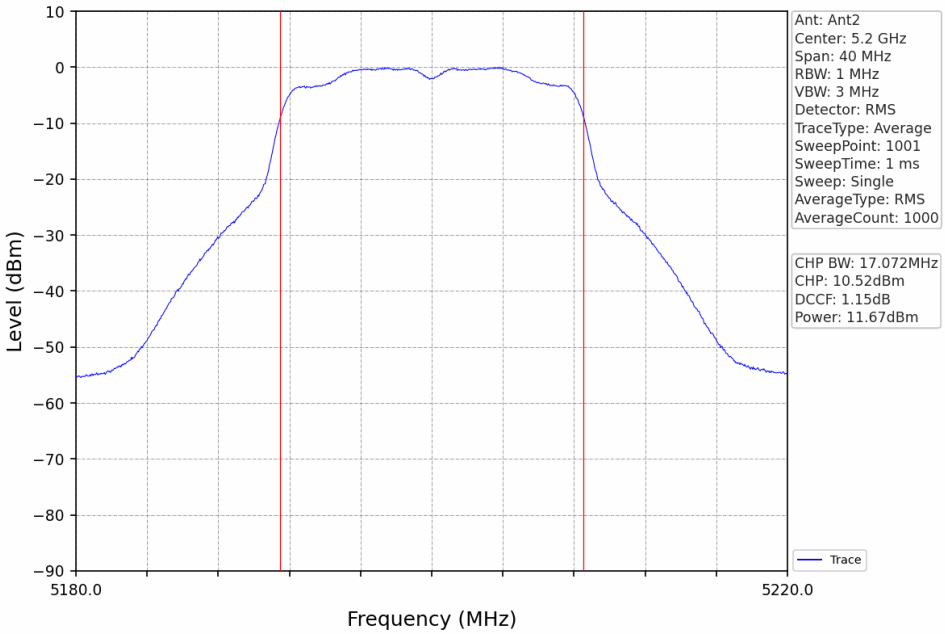
802.11a_LCH_5180MHz_Ant2_NTNV



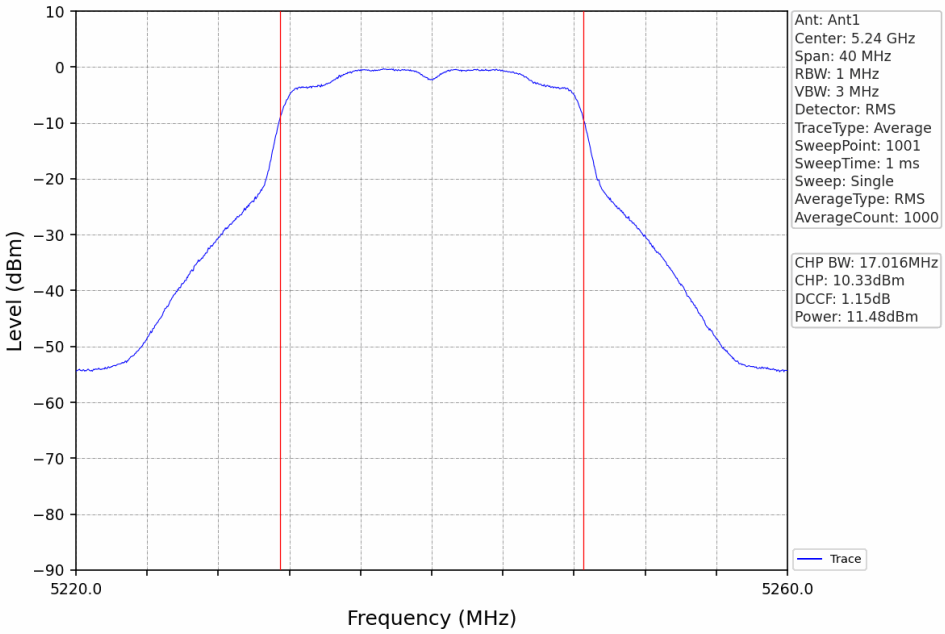
802.11a_MCH_5200MHz_Ant1_NTNV



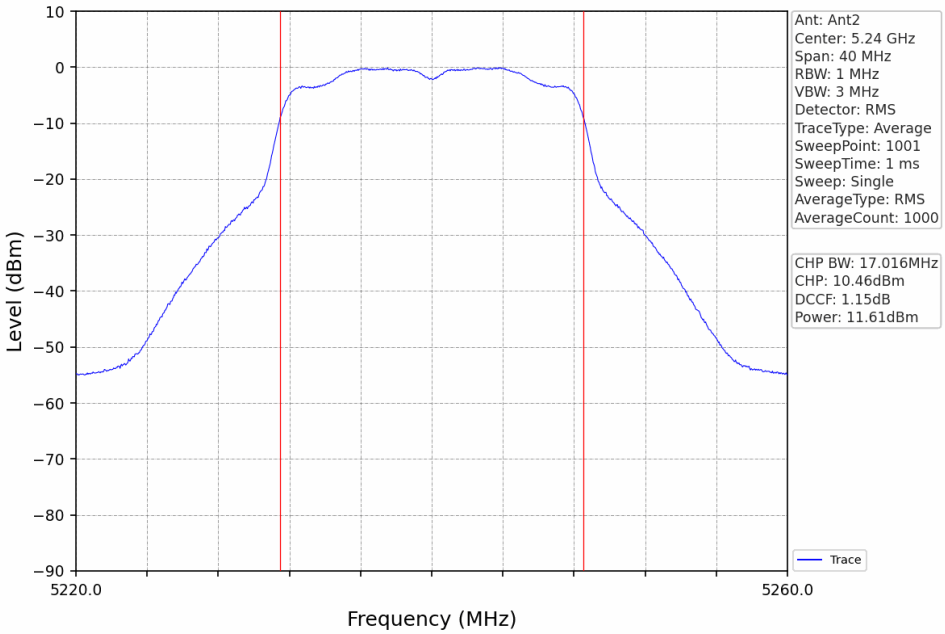
802.11a_MCH_5200MHz_Ant2_NTNV



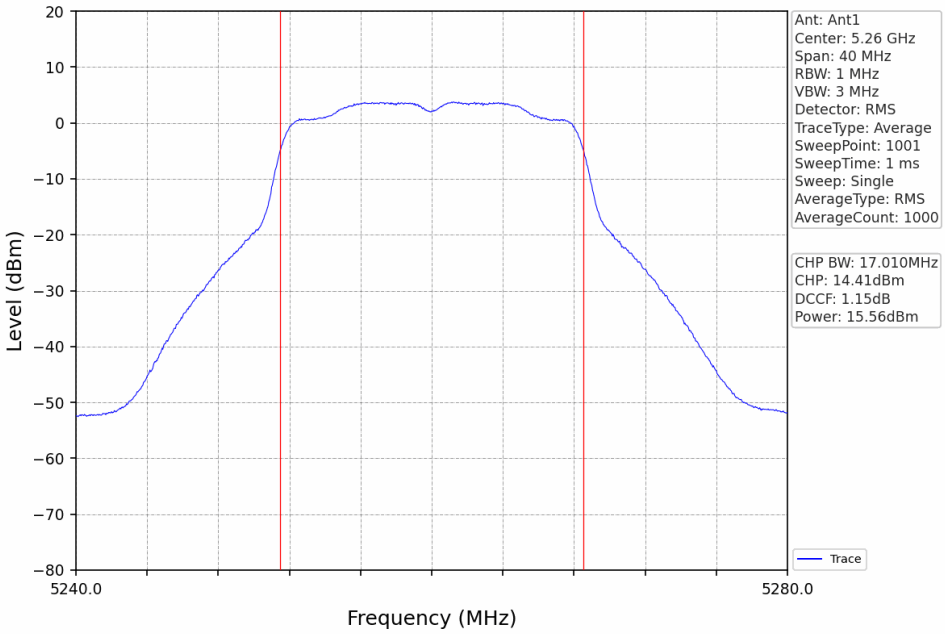
802.11a_HCH_5240MHz_Ant1_NTNV



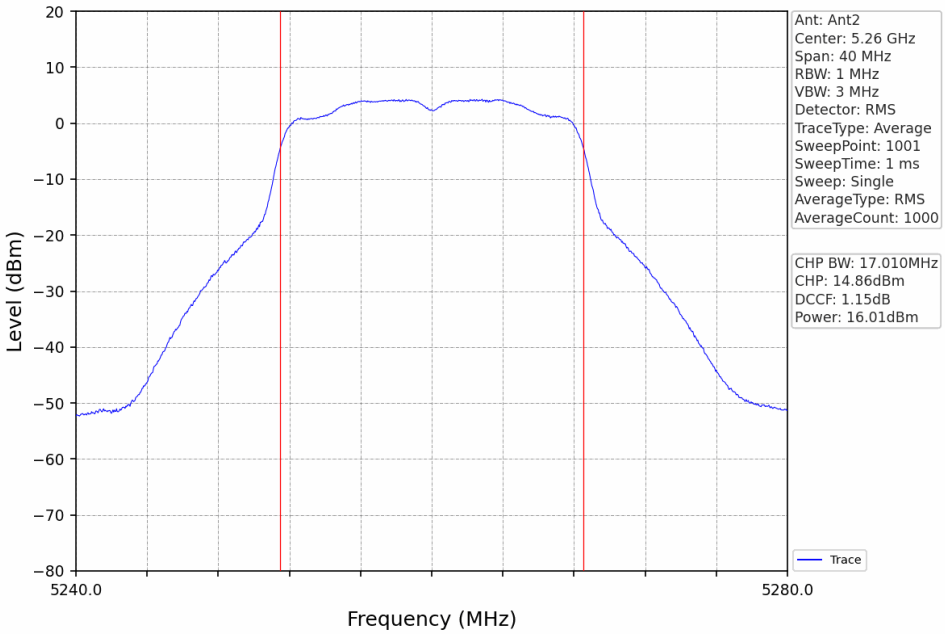
802.11a_HCH_5240MHz_Ant2_NTNV



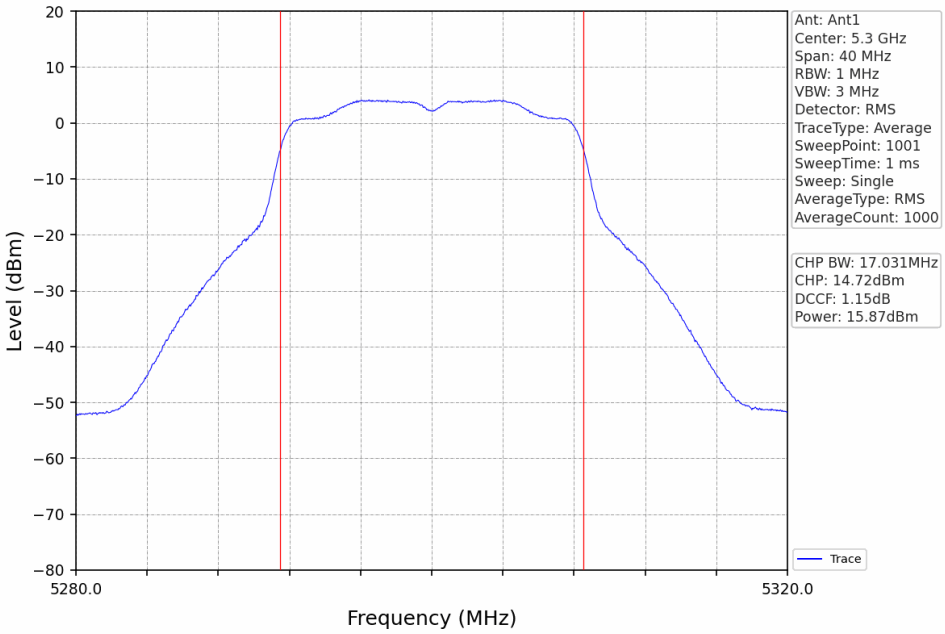
802.11a_LCH_5260MHz_Ant1_NTNV



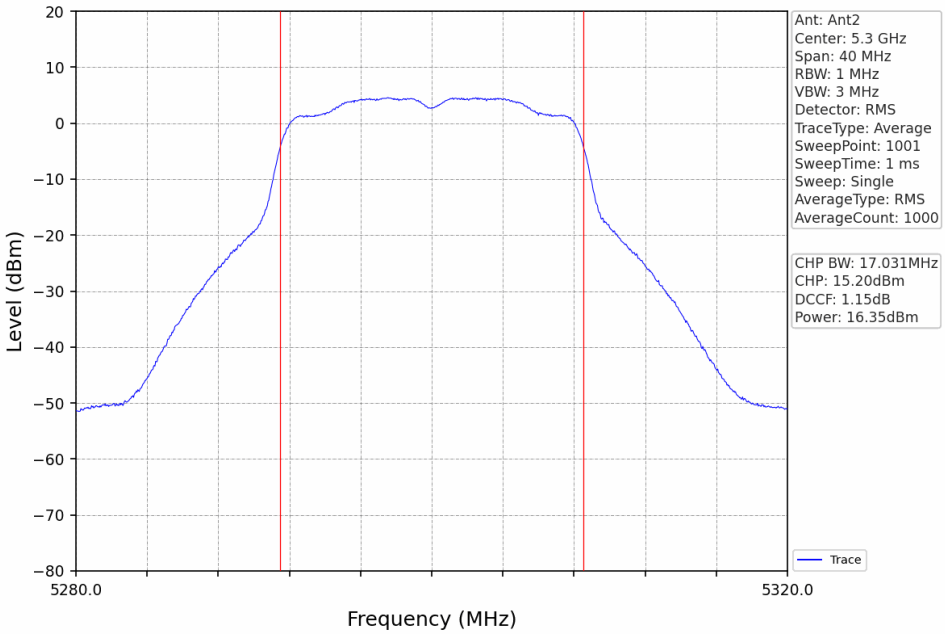
802.11a_LCH_5260MHz_Ant2_NTNV



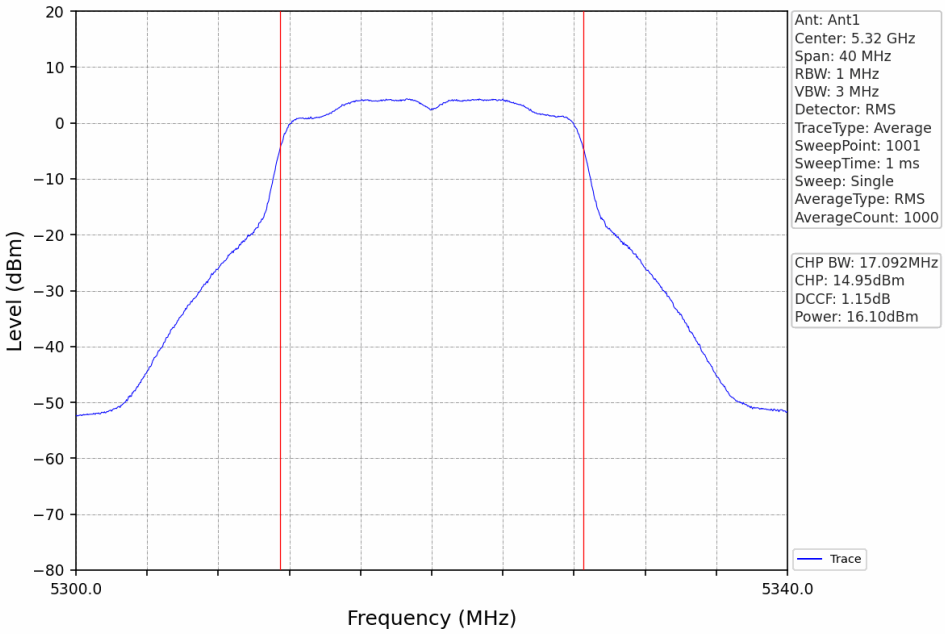
802.11a_MCH_5300MHz_Ant1_NTNV



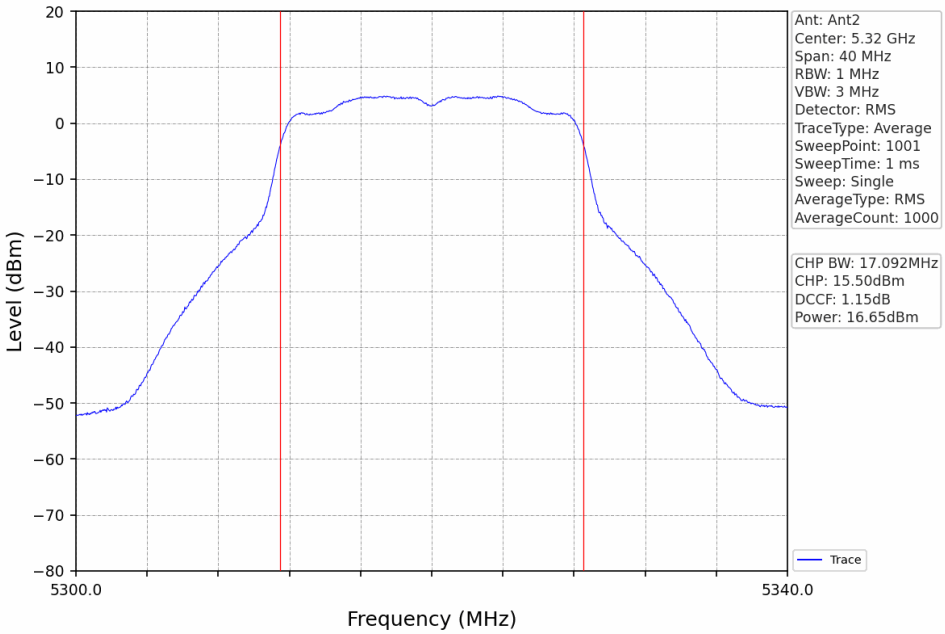
802.11a_MCH_5300MHz_Ant2_NTNV



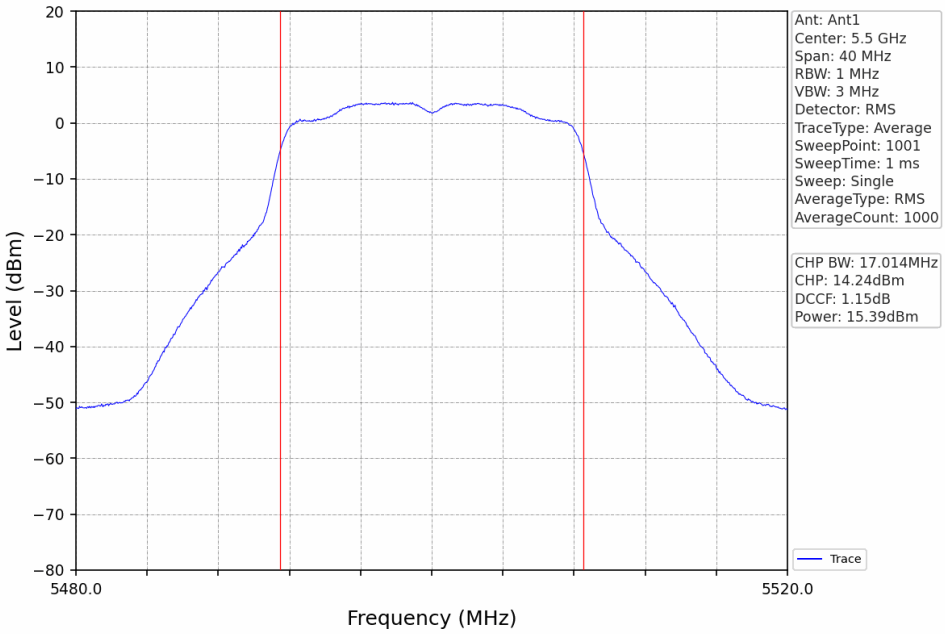
802.11a_HCH_5320MHz_Ant1_NTNV



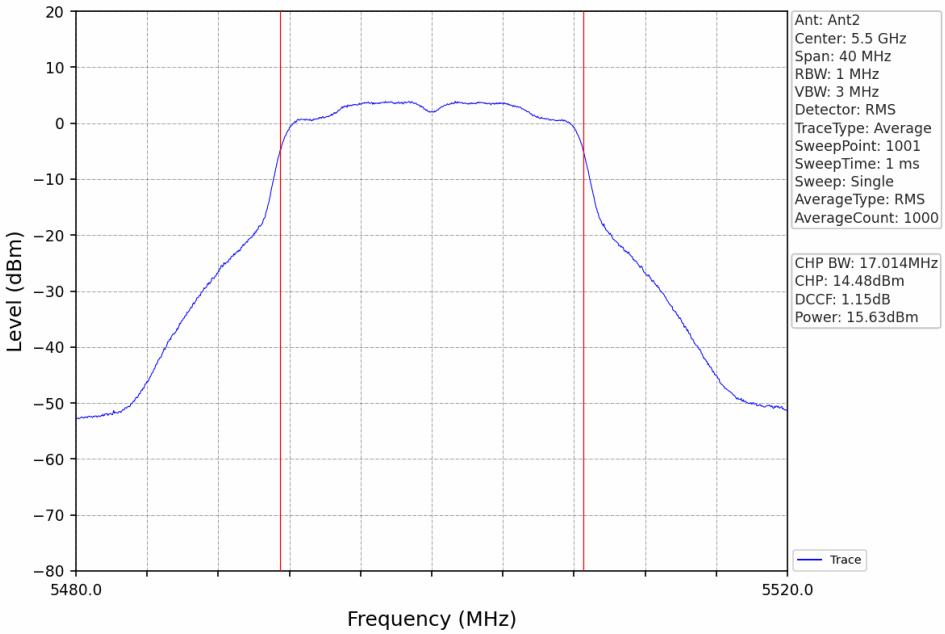
802.11a_HCH_5320MHz_Ant2_NTNV



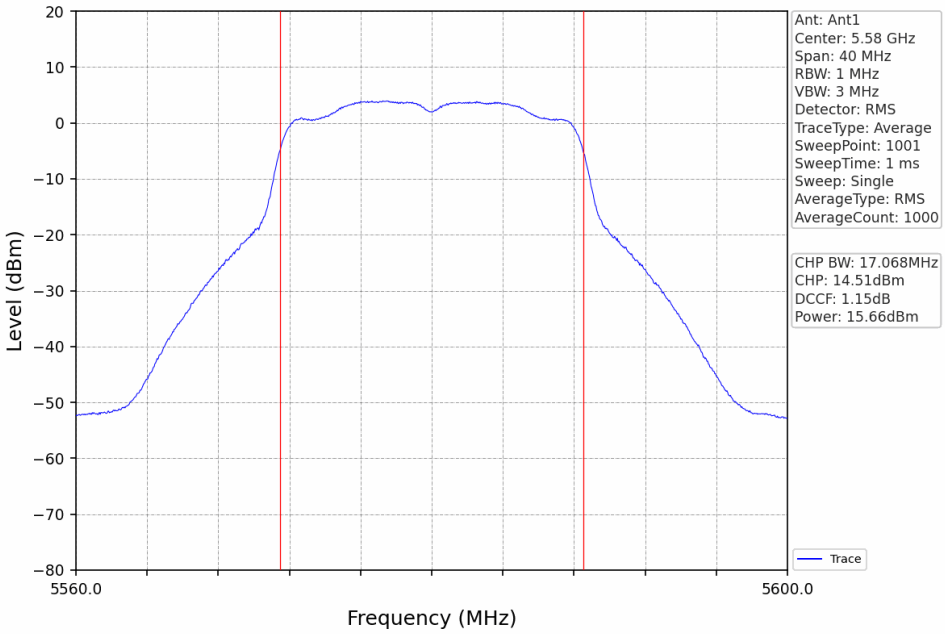
802.11a_LCH_5500MHz_Ant1_NTNV



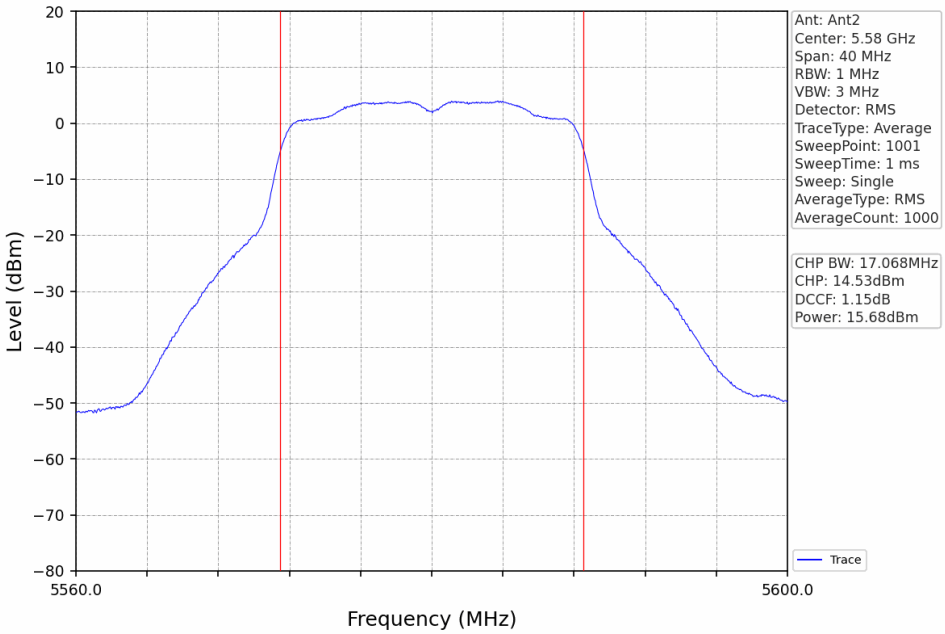
802.11a_LCH_5500MHz_Ant2_NTNV



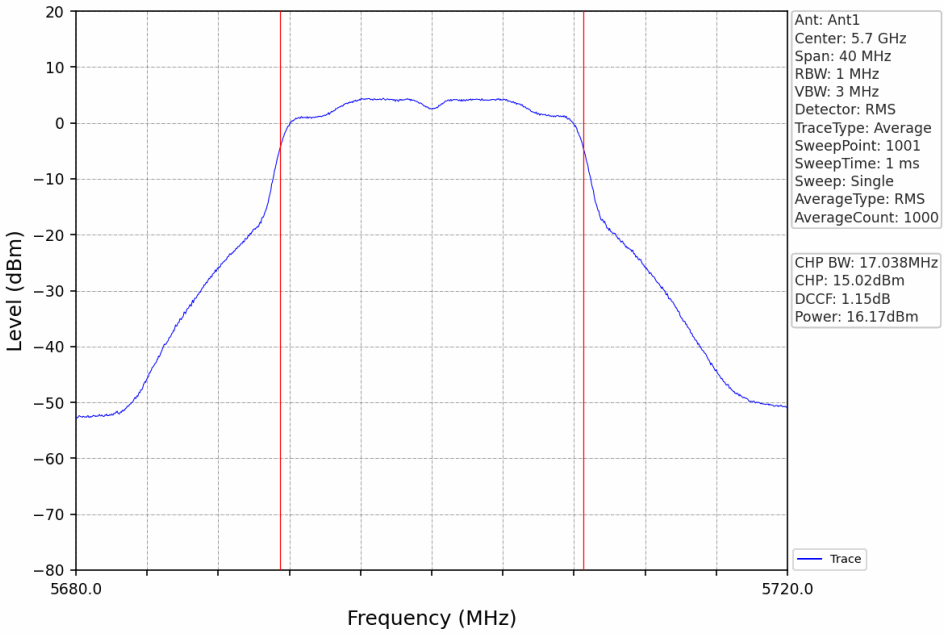
802.11a_MCH_5580MHz_Ant1_NTNV



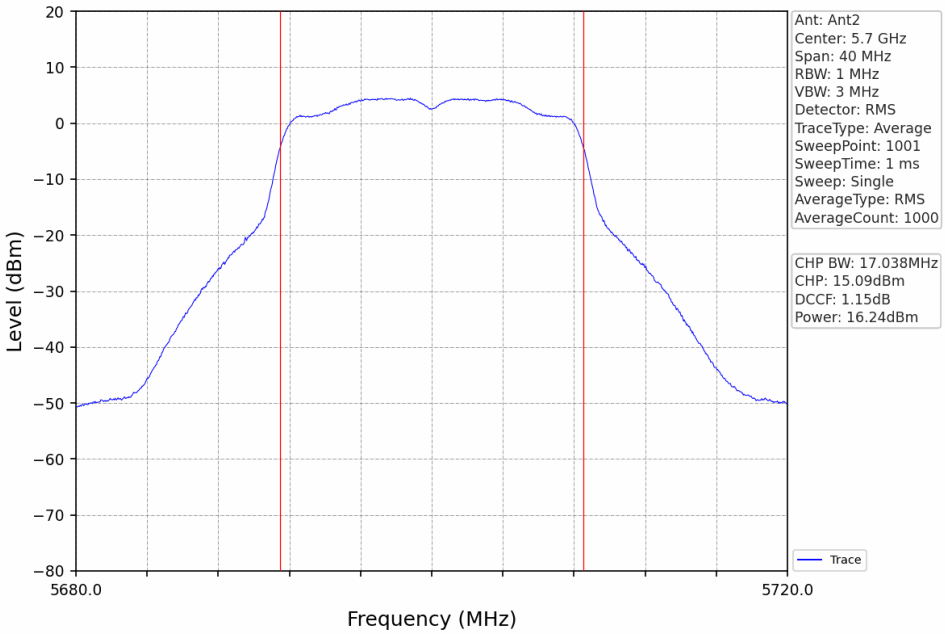
802.11a_MCH_5580MHz_Ant2_NTNV



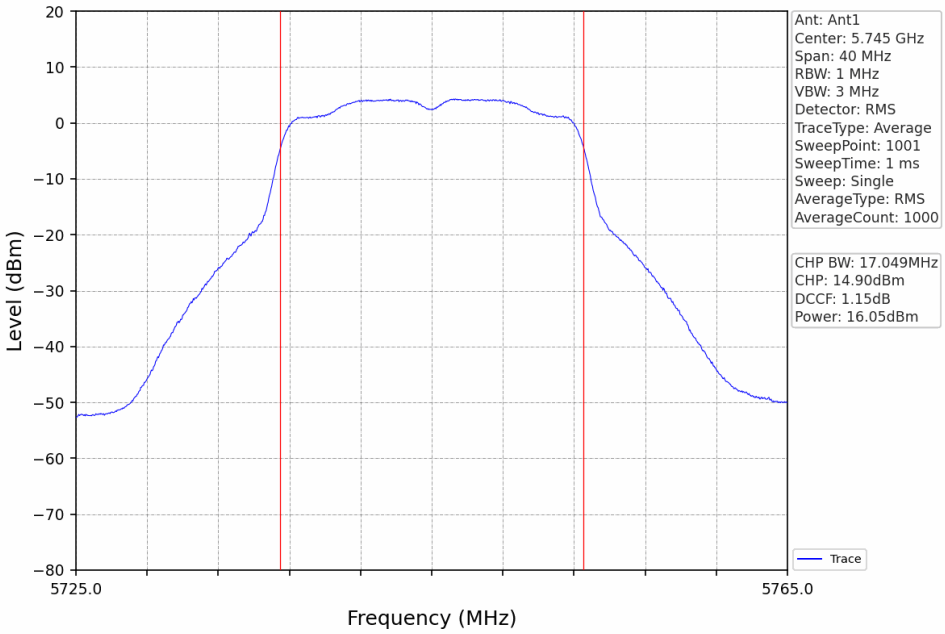
802.11a_HCH_5700MHz_Ant1_NTNV



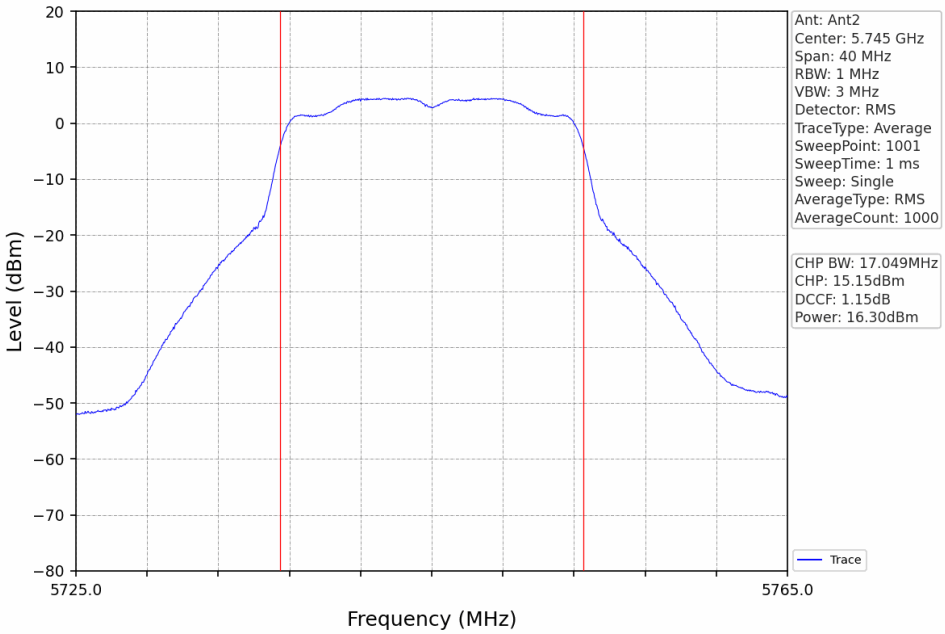
802.11a_HCH_5700MHz_Ant2_NTNV



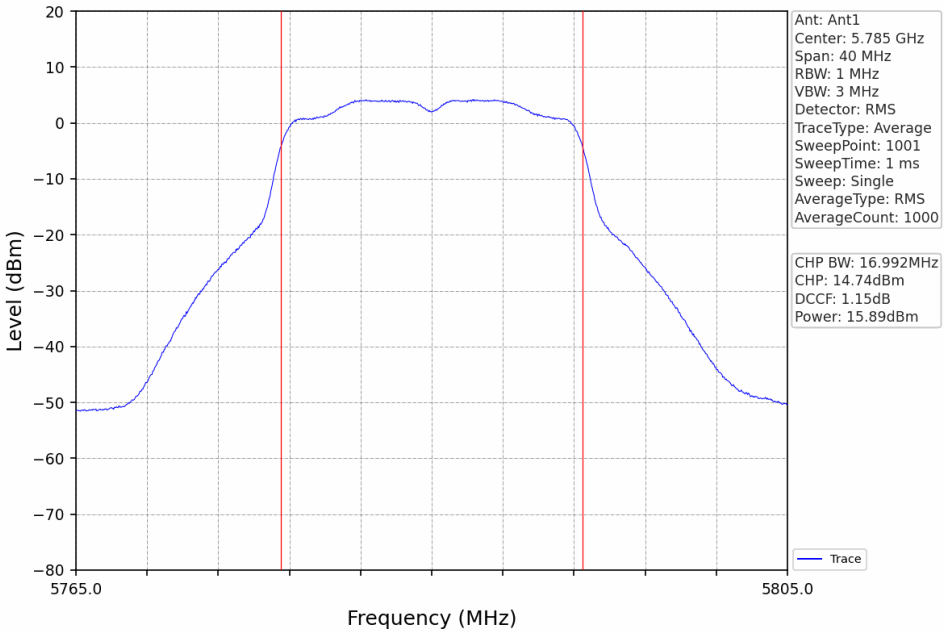
802.11a_LCH_5745MHz_Ant1_NTNV



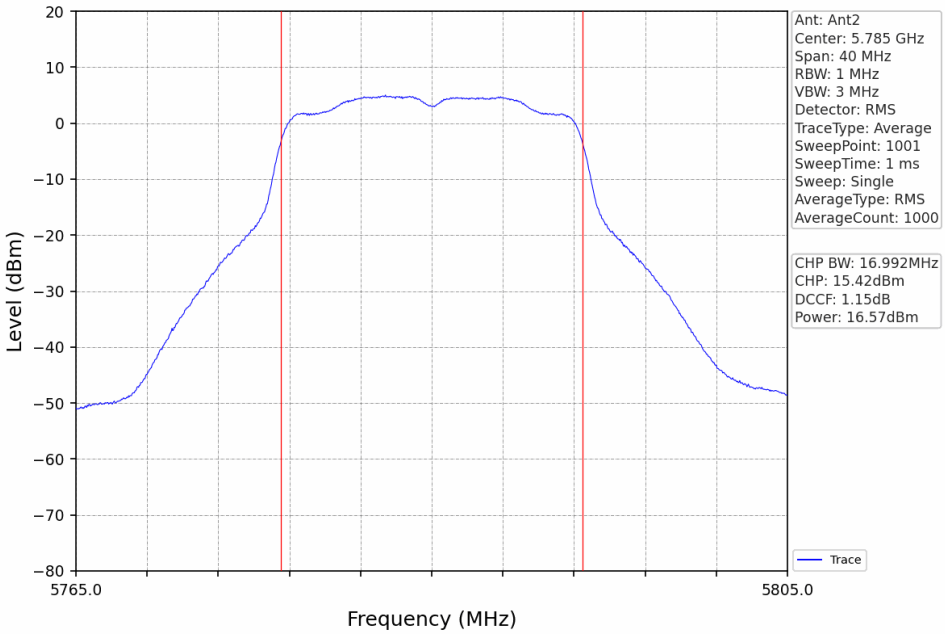
802.11a_LCH_5745MHz_Ant2_NTNV



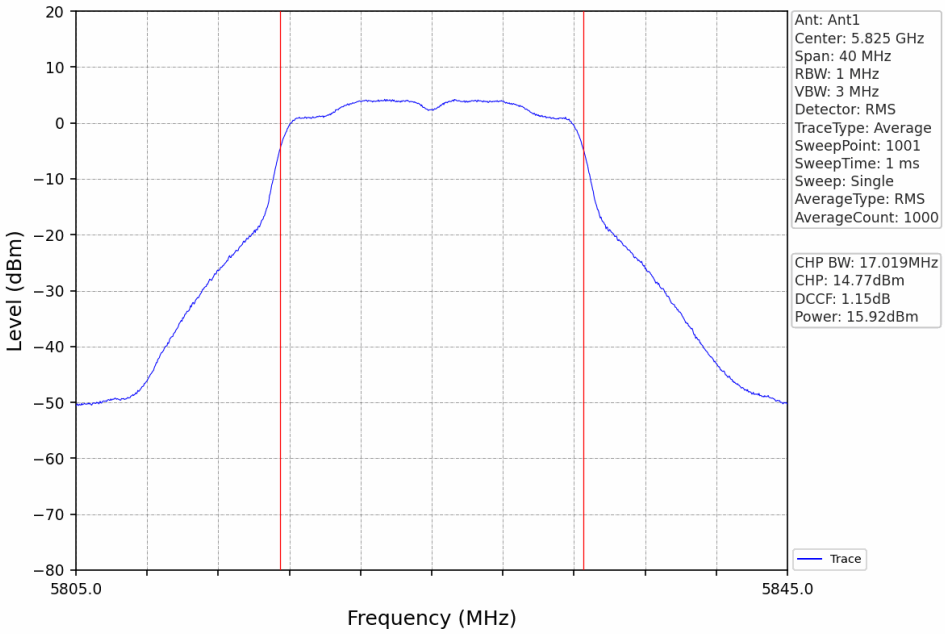
802.11a_MCH_5785MHz_Ant1_NTNV



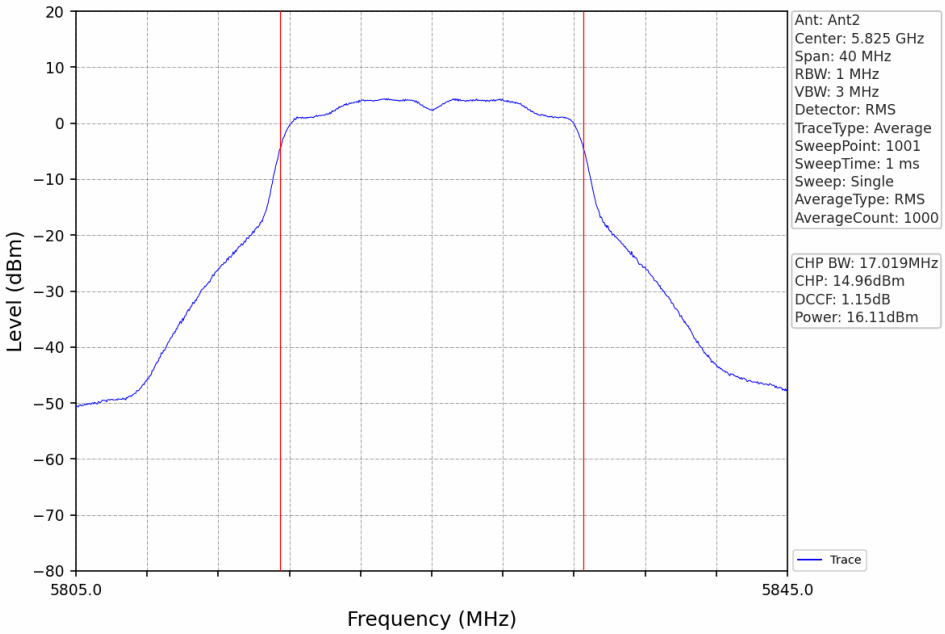
802.11a_MCH_5785MHz_Ant2_NTNV



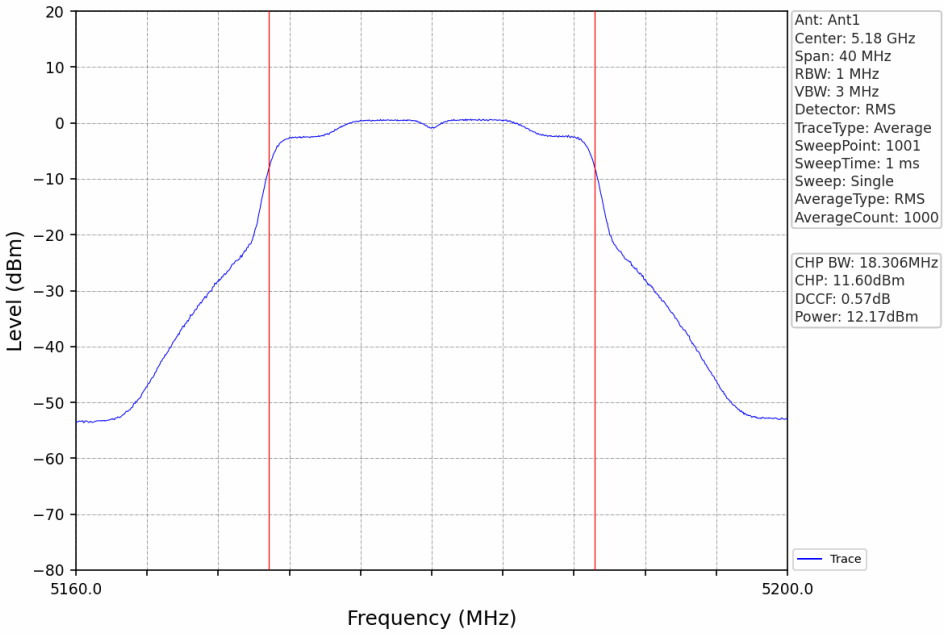
802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV