

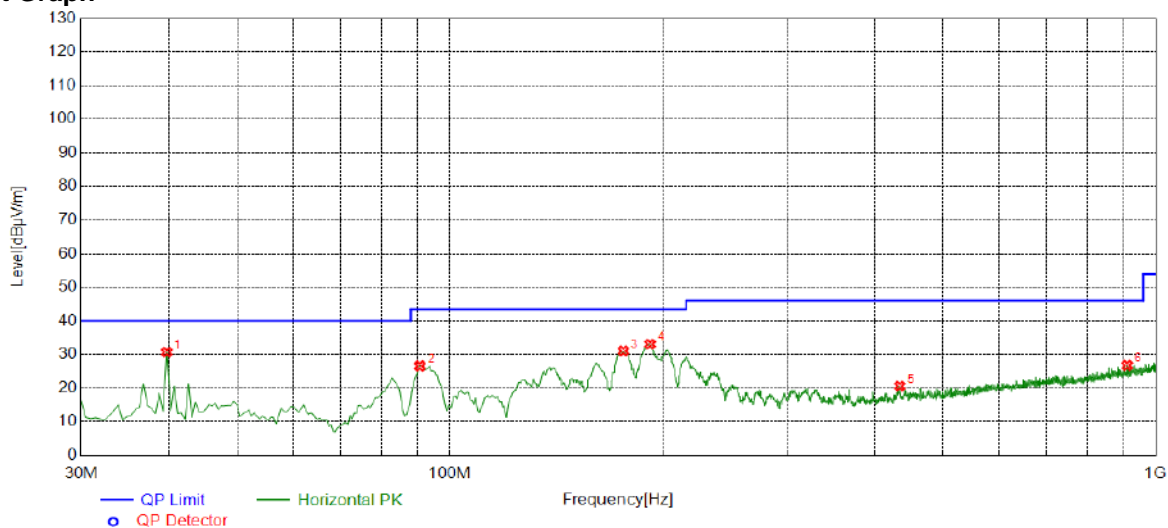


	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



4.9.1 Radiated emission below 1GHz

Test Graph



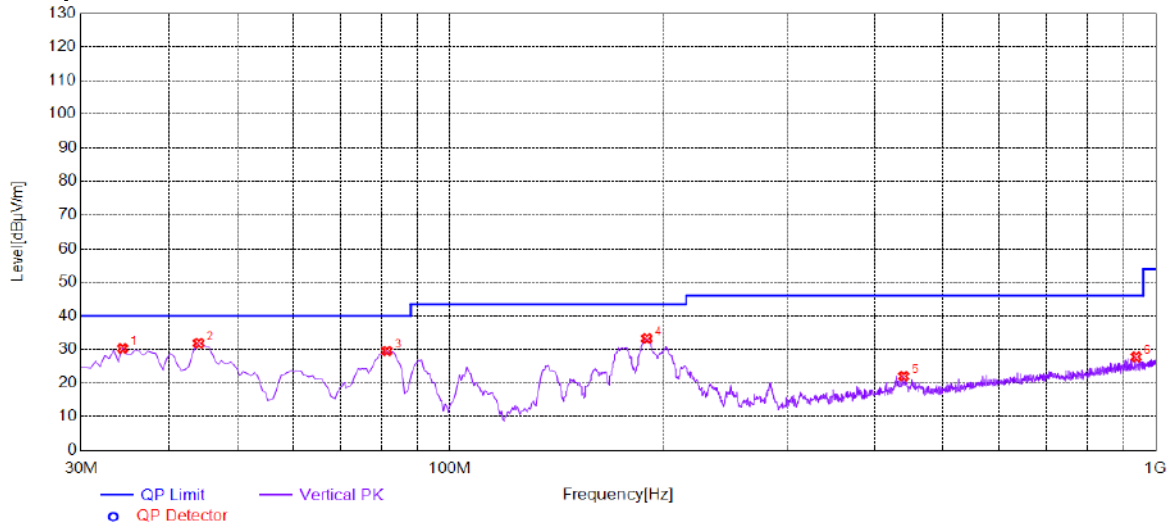
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.7049	30.73	-28.44	40.00	9.27	149	346	Horizontal
2	90.6553	26.63	-33.60	43.50	16.87	146	4	Horizontal
3	176.058	31.06	-33.59	43.50	12.44	198	72	Horizontal
4	192.071	33.12	-32.03	43.50	10.38	175	272	Horizontal
5	433.721	20.61	-24.74	46.00	25.39	216	224	Horizontal
6	910.715	26.81	-15.91	46.00	19.19	159	197	Horizontal

Final Data List



Test Graph



Suspected List

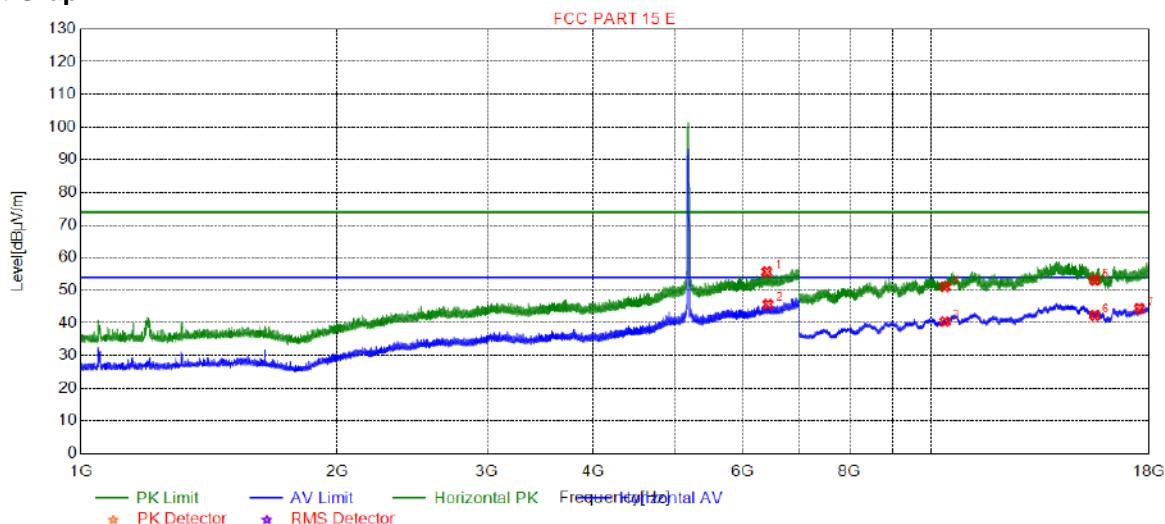
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.3672	30.34	-29.98	40.00	9.66	230	83	Vertical
2	44.0720	31.90	-30.04	40.00	8.10	218	312	Vertical
3	81.4357	29.56	-35.80	40.00	10.44	182	258	Vertical
4	190.130	33.32	-32.24	43.50	10.18	191	168	Vertical
5	439.544	22.07	-24.55	46.00	23.93	271	163	Vertical
6	938.374	27.85	-15.61	46.00	18.15	269	327	Vertical

Final Data List



4.9.2 Transmitter emission above 1GHz
4.9.2.1 802.11A_Channel 36

Test Graph



Suspected List

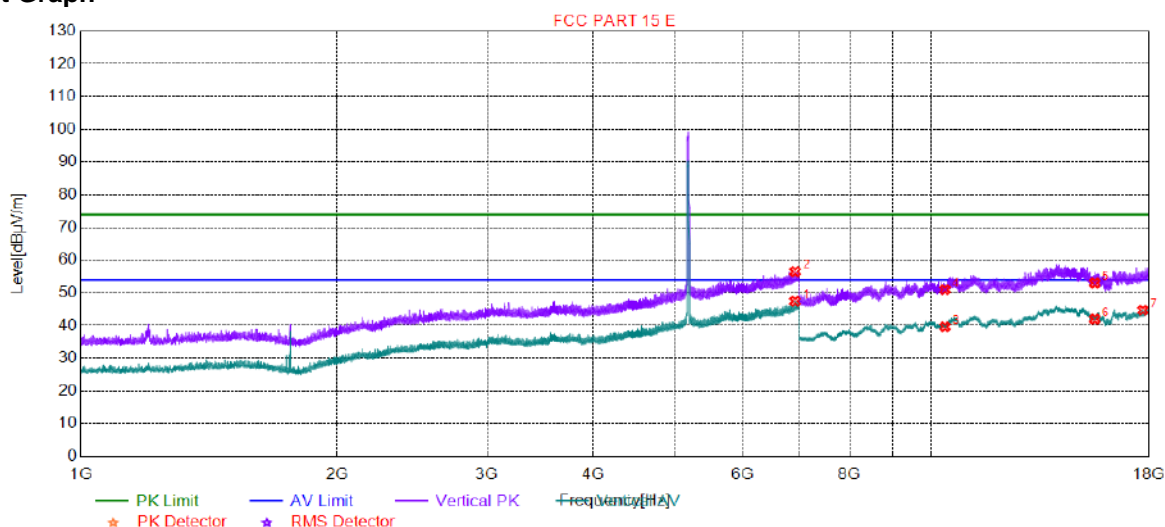
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6398.16	55.71	19.37	74.00	18.29	174	0	Horizontal
2	6417.97	45.78	19.42	54.00	8.22	246	240	Horizontal
3	10360.0	40.45	-3.63	54.00	13.55	144	342	Horizontal
4	10360.0	51.11	-3.63	74.00	22.89	108	342	Horizontal
5	15540.0	53.17	0.46	74.00	20.83	246	42	Horizontal
6	15540.0	42.37	0.46	54.00	11.63	190	0	Horizontal
7	17527.5	44.53	-0.97	54.00	9.47	214	0	Horizontal

Final Data List



4.9.2.2 802.11A_Channel 36

Test Graph



Suspected List

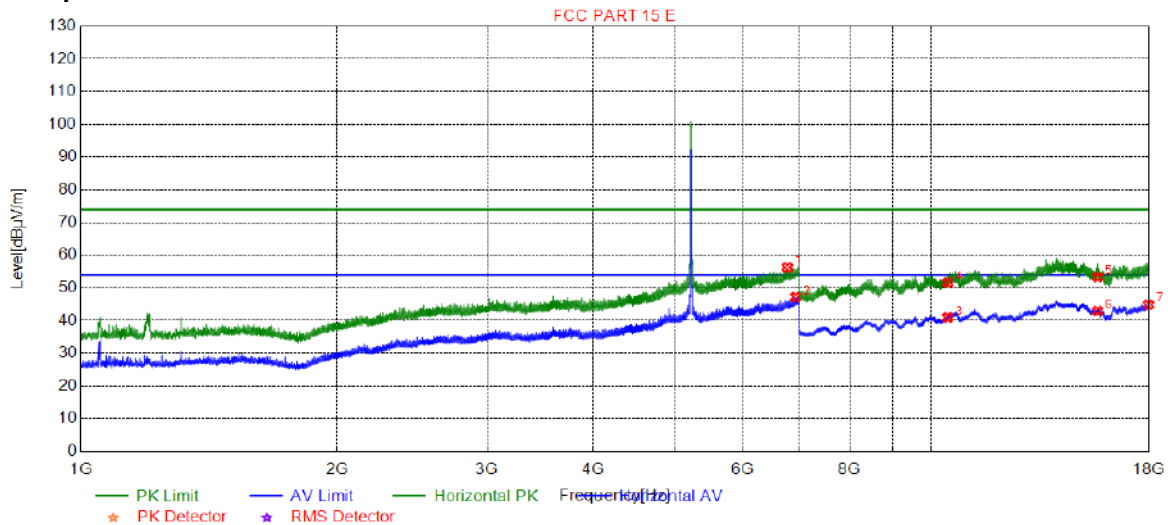
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.69	47.48	20.87	54.00	6.52	223	18	Vertical
2	6907.89	56.51	20.88	74.00	17.49	151	270	Vertical
3	10360.0	39.63	-3.63	54.00	14.37	234	18	Vertical
4	10360.0	51.02	-3.63	74.00	22.98	270	69	Vertical
5	15540.0	53.07	0.46	74.00	20.93	288	268	Vertical
6	15540.0	42.00	0.46	54.00	12.00	256	319	Vertical
7	17701.3	44.76	-0.67	54.00	9.24	249	360	Vertical

Final Data List



4.9.2.3 802.11A_Channel 44

Test Graph



Suspected List

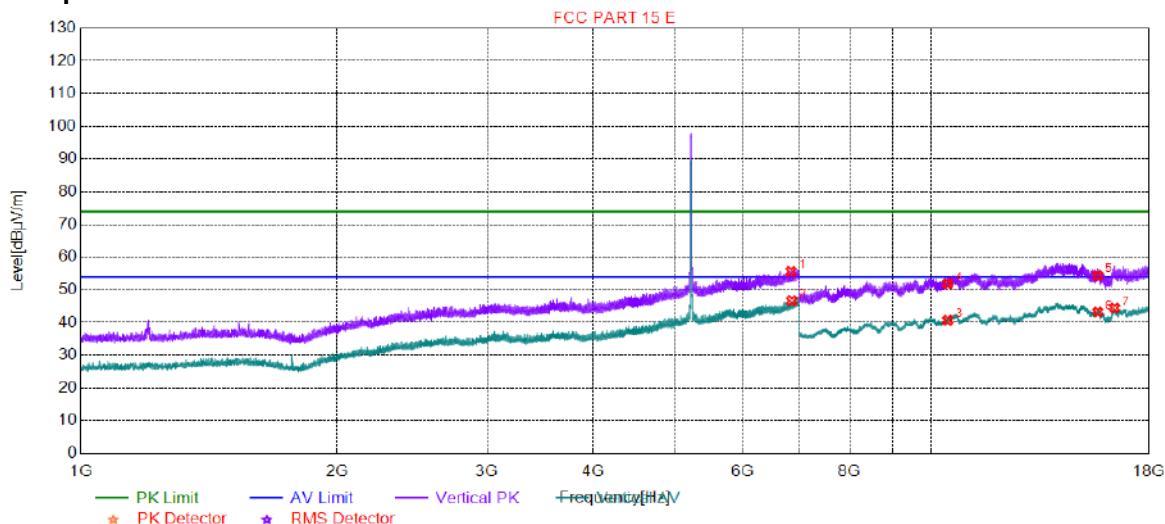
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6762.98	56.27	20.58	74.00	17.73	127	241	Horizontal
2	6918.09	47.22	20.97	54.00	6.78	102	191	Horizontal
3	10440.0	40.98	-3.24	54.00	13.02	248	143	Horizontal
4	10440.0	51.64	-3.24	74.00	22.36	161	93	Horizontal
5	15660.0	53.31	0.43	74.00	20.69	164	192	Horizontal
6	15660.0	42.99	0.43	54.00	11.01	230	243	Horizontal
7	17972.4	44.91	-1.29	54.00	9.09	157	143	Horizontal

Final Data List



4.9.2.4 802.11A_Channel 44

Test Graph



Suspected List

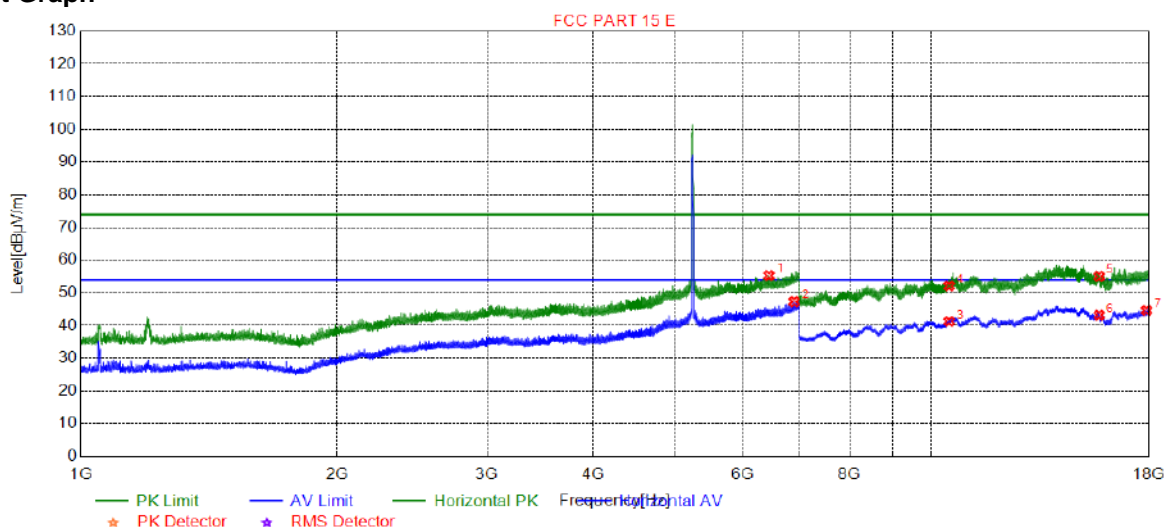
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6830.79	55.66	20.70	74.00	18.34	187	169	Vertical
2	6845.79	46.72	20.84	54.00	7.28	281	69	Vertical
3	10440.0	40.72	-3.24	54.00	13.28	254	218	Vertical
4	10440.0	51.94	-3.24	74.00	22.06	226	218	Vertical
5	15660.0	54.40	0.43	74.00	19.60	260	168	Vertical
6	15660.0	43.31	0.43	54.00	10.69	194	68	Vertical
7	16395.0	44.53	-1.12	54.00	9.47	256	360	Vertical

Final Data List



4.9.2.5 802.11A_Channel 48

Test Graph



Suspected List

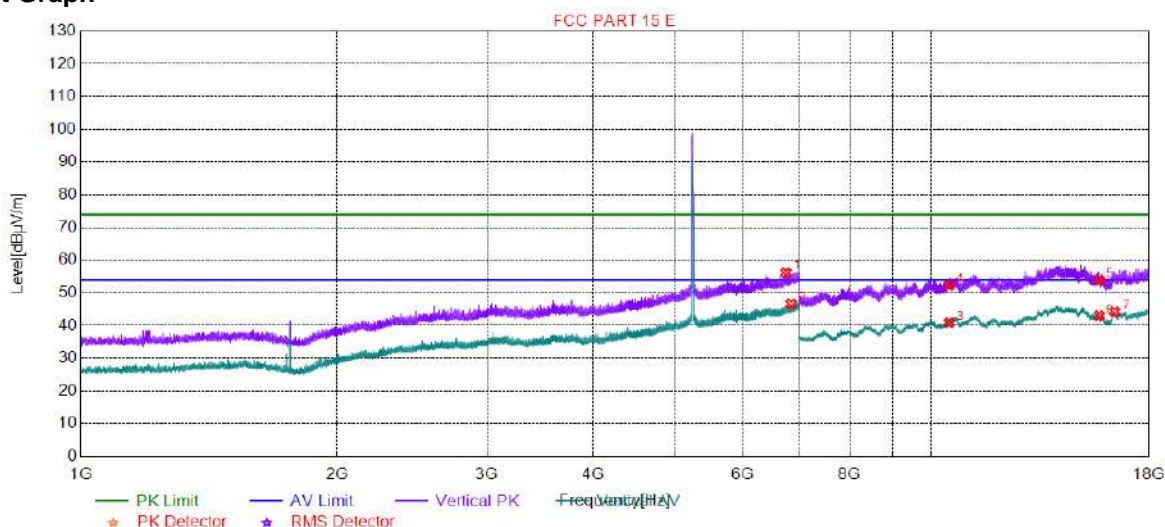
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6434.17	55.33	19.47	74.00	18.67	107	243	Horizontal
2	6890.49	47.32	20.82	54.00	6.68	110	41	Horizontal
3	10480.0	41.31	-2.94	54.00	12.69	166	141	Horizontal
4	10480.0	52.15	-2.94	74.00	21.85	169	42	Horizontal
5	15720.0	55.07	0.29	74.00	18.93	127	191	Horizontal
6	15720.0	43.22	0.29	54.00	10.78	125	0	Horizontal
7	17876.2	44.69	-1.62	54.00	9.31	189	241	Horizontal

Final Data List



4.9.2.6 802.11A_Channel 48

Test Graph



Suspected List

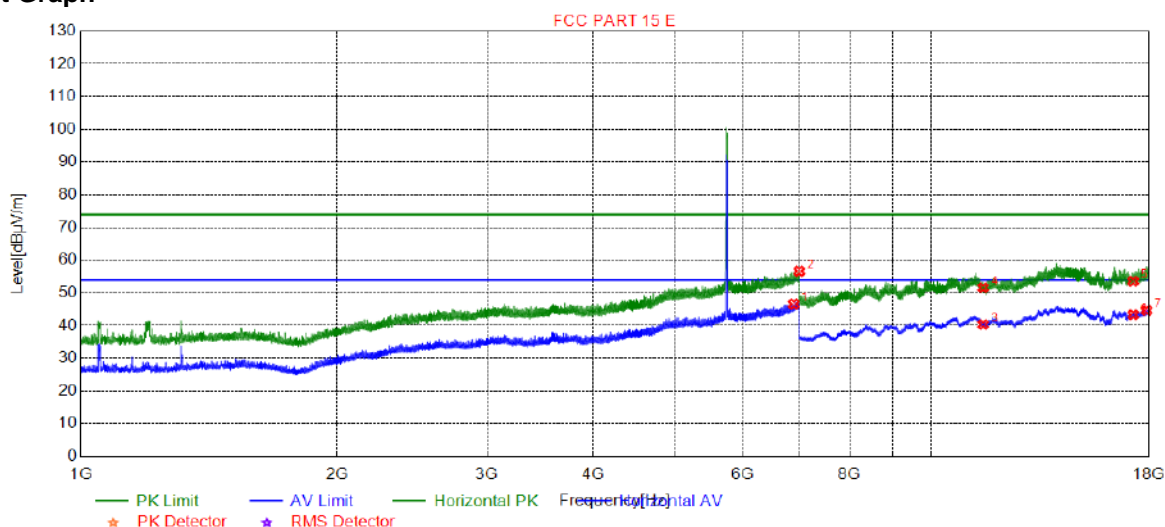
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6736.88	56.19	20.41	74.00	17.81	184	360	Vertical
2	6832.29	46.71	20.71	54.00	7.29	198	220	Vertical
3	10480.0	40.90	-2.94	54.00	13.10	261	18	Vertical
4	10480.0	52.33	-2.94	74.00	21.67	194	68	Vertical
5	15720.0	53.89	0.29	74.00	20.11	279	18	Vertical
6	15720.0	43.07	0.29	54.00	10.93	246	118	Vertical
7	16402.1	44.31	-1.12	54.00	9.69	229	168	Vertical

Final Data List



4.9.2.7 802.11A_Channel 149

Test Graph



Suspected List

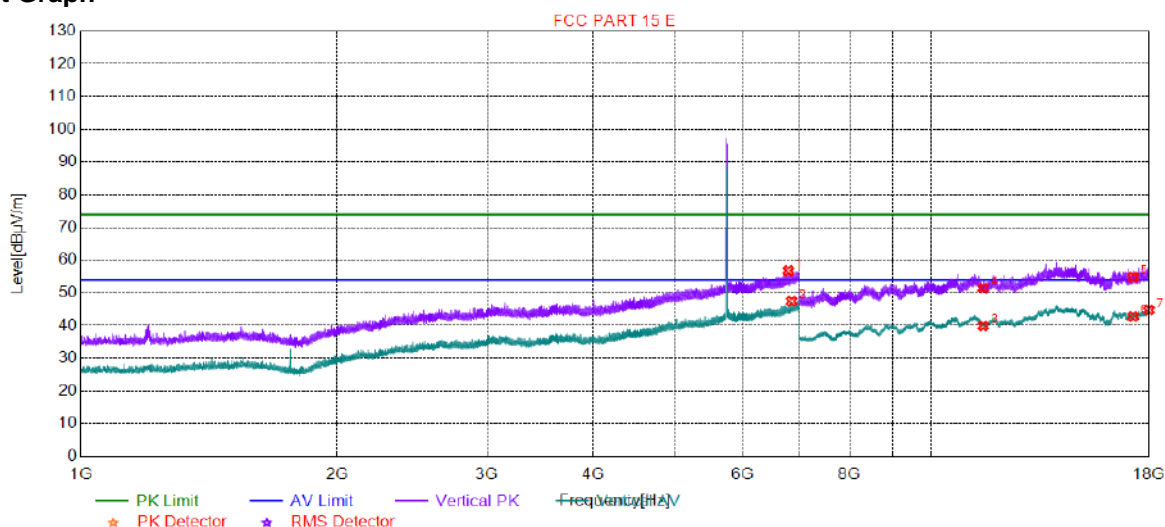
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6883.59	46.59	20.83	54.00	7.41	113	292	Horizontal
2	6984.39	56.62	21.27	74.00	17.38	106	92	Horizontal
3	11490.0	40.34	-2.03	54.00	13.66	152	92	Horizontal
4	11490.0	51.61	-2.03	74.00	22.39	235	192	Horizontal
5	17235.0	53.60	-2.67	74.00	20.40	223	92	Horizontal
6	17235.0	43.35	-2.67	54.00	10.65	114	292	Horizontal
7	17883.3	44.70	-1.53	54.00	9.30	126	142	Horizontal

Final Data List



4.9.2.8 802.11A_Channel 149

Test Graph



Suspected List

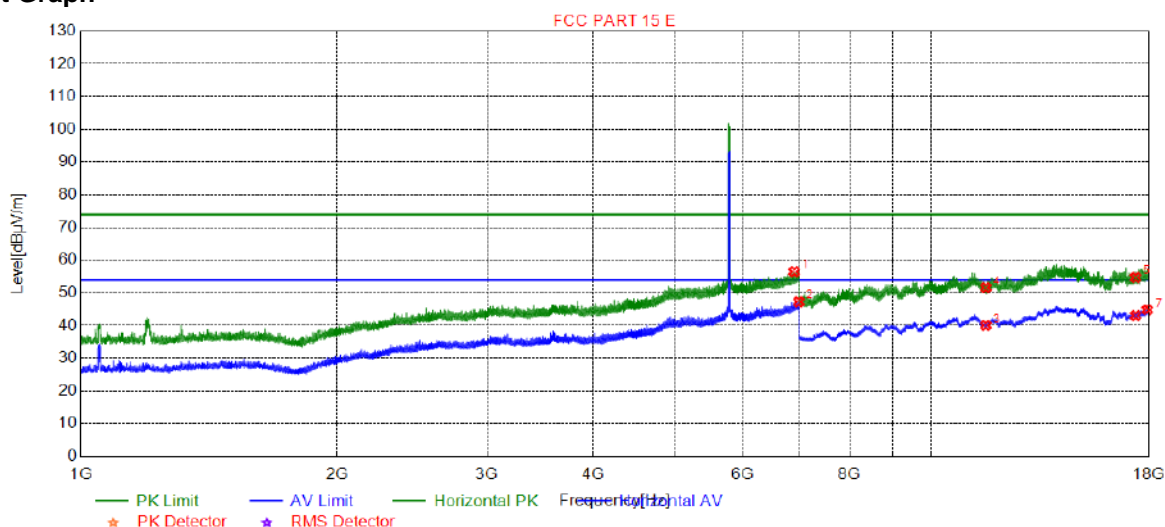
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6783.38	56.77	20.48	74.00	17.23	196	320	Vertical
2	6841.29	47.50	20.80	54.00	6.50	178	18	Vertical
3	11490.0	39.88	-2.03	54.00	14.12	200	18	Vertical
4	11490.0	51.49	-2.03	74.00	22.51	275	320	Vertical
5	17235.0	54.78	-2.67	74.00	19.22	237	320	Vertical
6	17235.0	42.82	-2.67	54.00	11.18	260	360	Vertical
7	17995.5	44.81	-1.28	54.00	9.19	200	18	Vertical

Final Data List



4.9.2.9 802.11A_Channel 157

Test Graph



Suspected List

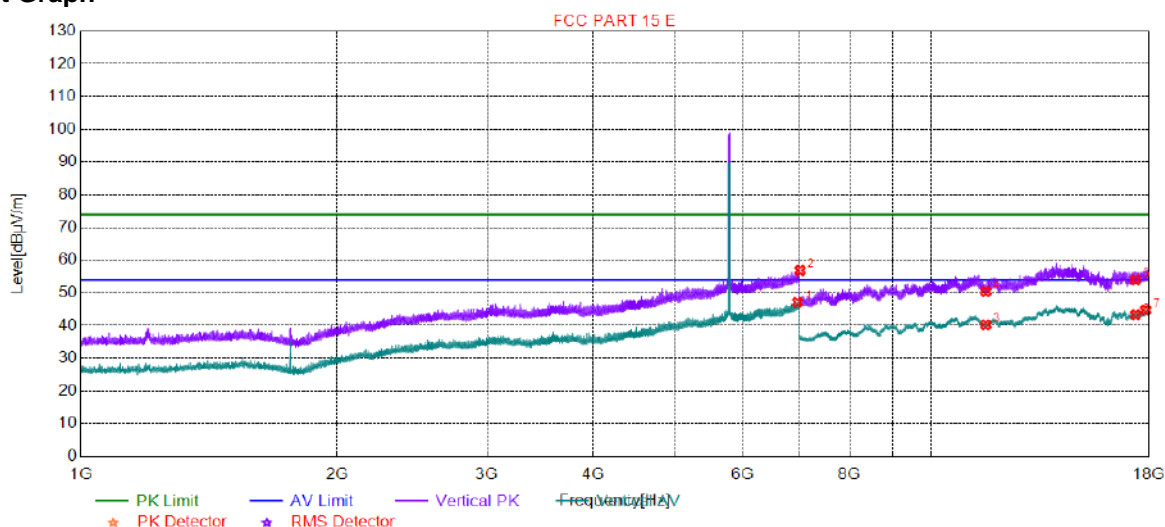
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6891.69	56.49	20.82	74.00	17.51	223	240	Horizontal
2	6974.79	47.28	21.26	54.00	6.72	152	290	Horizontal
3	11570.0	40.09	-2.39	54.00	13.91	146	41	Horizontal
4	11570.0	51.62	-2.39	74.00	22.38	224	342	Horizontal
5	17355.0	54.74	-1.94	74.00	19.26	124	41	Horizontal
6	17355.0	43.09	-1.94	54.00	10.91	136	0	Horizontal
7	17909.7	44.88	-1.31	54.00	9.12	158	342	Horizontal

Final Data List



4.9.2.10 802.11A_Channel 157

Test Graph



Suspected List

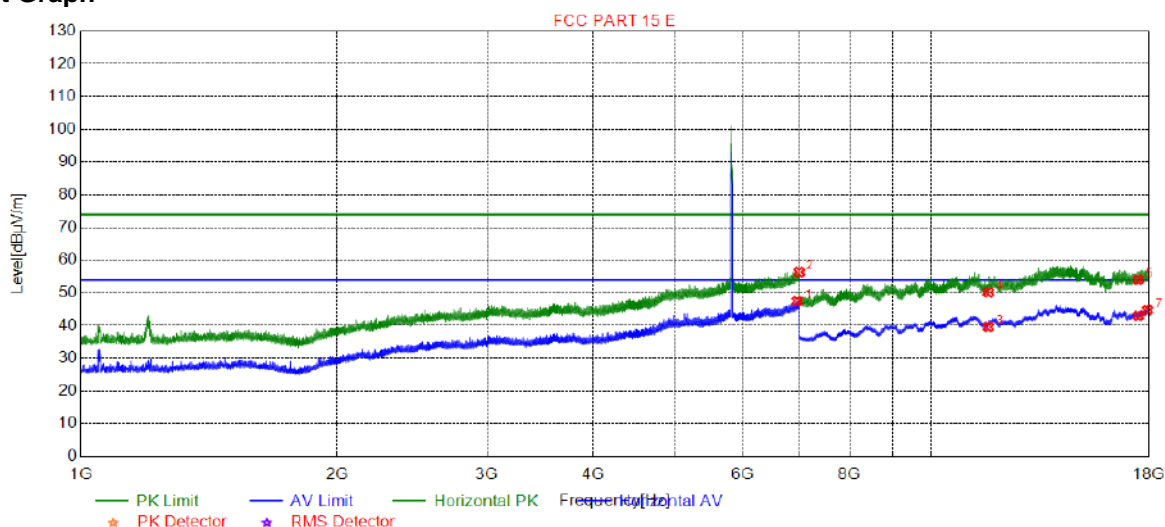
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6948.39	47.14	21.24	54.00	6.86	216	170	Vertical
2	6999.40	56.88	21.27	74.00	17.12	166	69	Vertical
3	11570.0	40.24	-2.39	54.00	13.76	179	69	Vertical
4	11570.0	50.43	-2.39	74.00	23.57	245	219	Vertical
5	17355.0	54.03	-1.94	74.00	19.97	227	119	Vertical
6	17355.0	43.38	-1.94	54.00	10.62	189	219	Vertical
7	17831.1	44.79	-2.22	54.00	9.21	257	360	Vertical

Final Data List



4.9.2.11 802.11A_Channel 165

Test Graph



Suspected List

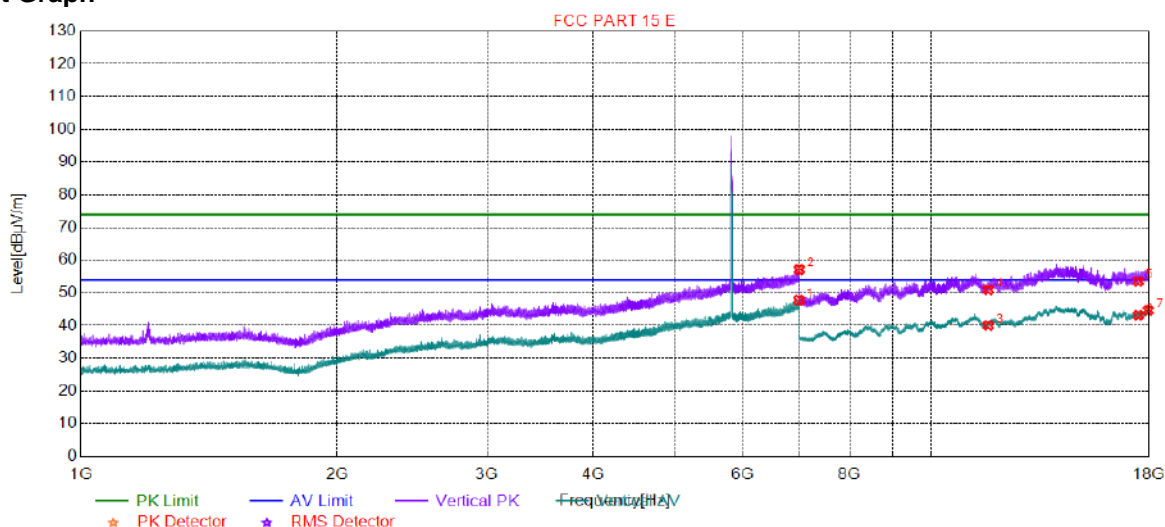
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6944.49	47.50	21.21	54.00	6.50	116	141	Horizontal
2	6982.29	56.36	21.26	74.00	17.64	140	242	Horizontal
3	11650.0	39.61	-2.49	54.00	14.39	226	193	Horizontal
4	11650.0	50.18	-2.49	74.00	23.82	213	292	Horizontal
5	17475.0	54.10	-1.24	74.00	19.90	205	92	Horizontal
6	17475.0	43.02	-1.24	54.00	10.98	205	342	Horizontal
7	17925.1	44.81	-1.30	54.00	9.19	163	193	Horizontal

Final Data List



4.9.2.12 802.11A_Channel 165

Test Graph



Suspected List

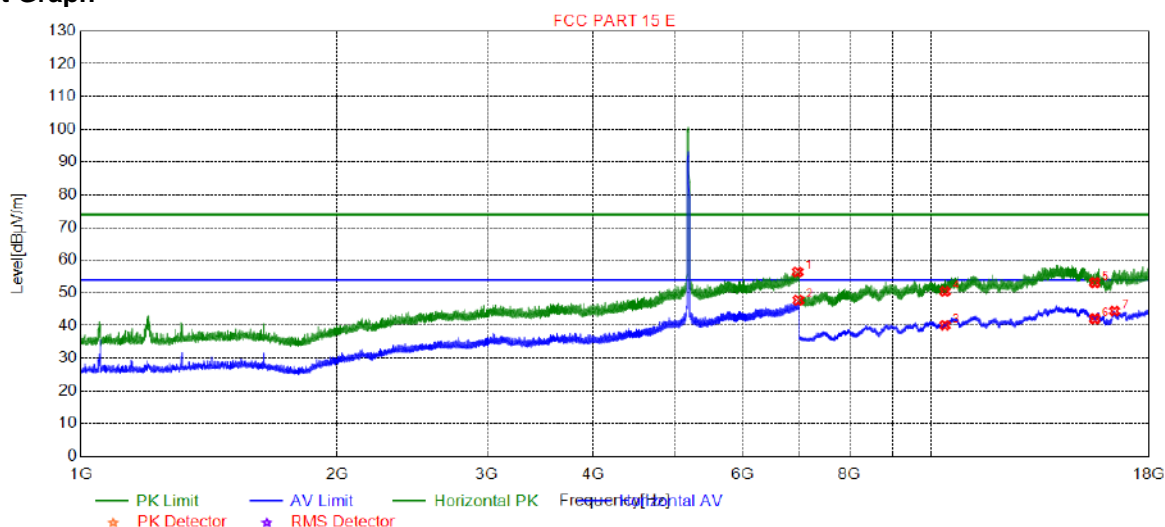
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6977.19	47.79	21.26	54.00	6.21	186	18	Vertical
2	6983.19	57.12	21.26	74.00	16.88	154	318	Vertical
3	11650.0	40.06	-2.49	54.00	13.94	203	360	Vertical
4	11650.0	50.97	-2.49	74.00	23.03	292	119	Vertical
5	17475.0	53.55	-1.24	74.00	20.45	273	169	Vertical
6	17475.0	43.19	-1.24	54.00	10.81	254	69	Vertical
7	17957.0	44.68	-1.29	54.00	9.32	232	219	Vertical

Final Data List



4.9.2.13 802.11N20_Channel 36

Test Graph



Suspected List

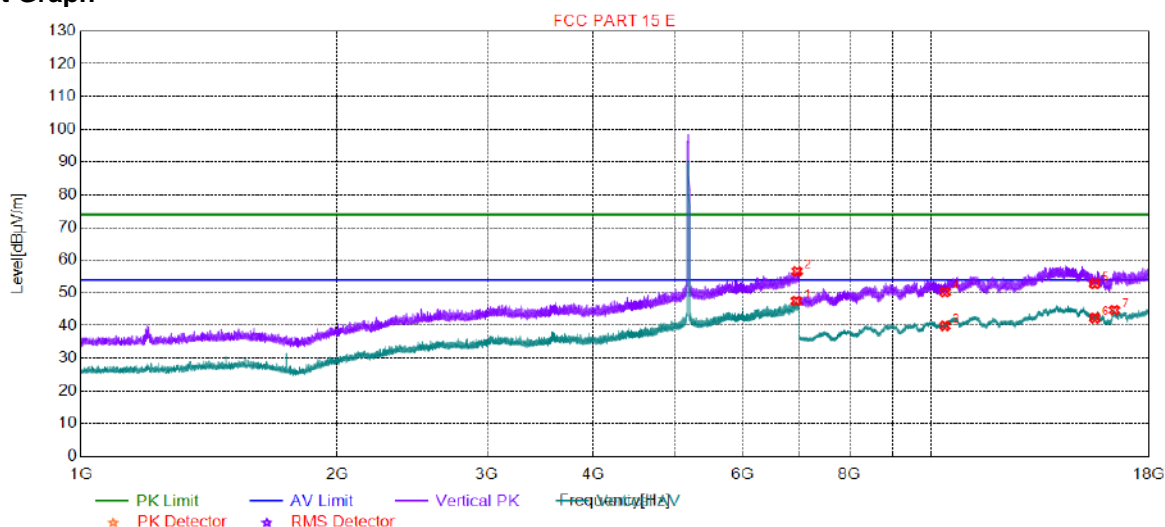
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6951.99	56.41	21.26	74.00	17.59	138	342	Horizontal
2	6965.19	47.77	21.26	54.00	6.23	208	241	Horizontal
3	10360.0	40.10	-3.63	54.00	13.90	186	41	Horizontal
4	10360.0	50.45	-3.63	74.00	23.55	102	292	Horizontal
5	15540.0	53.17	0.46	74.00	20.83	245	242	Horizontal
6	15540.0	42.10	0.46	54.00	11.90	127	91	Horizontal
7	16390.6	44.51	-1.13	54.00	9.49	167	0	Horizontal

Final Data List



4.9.2.14 802.11N20_Channel 36

Test Graph



Suspected List

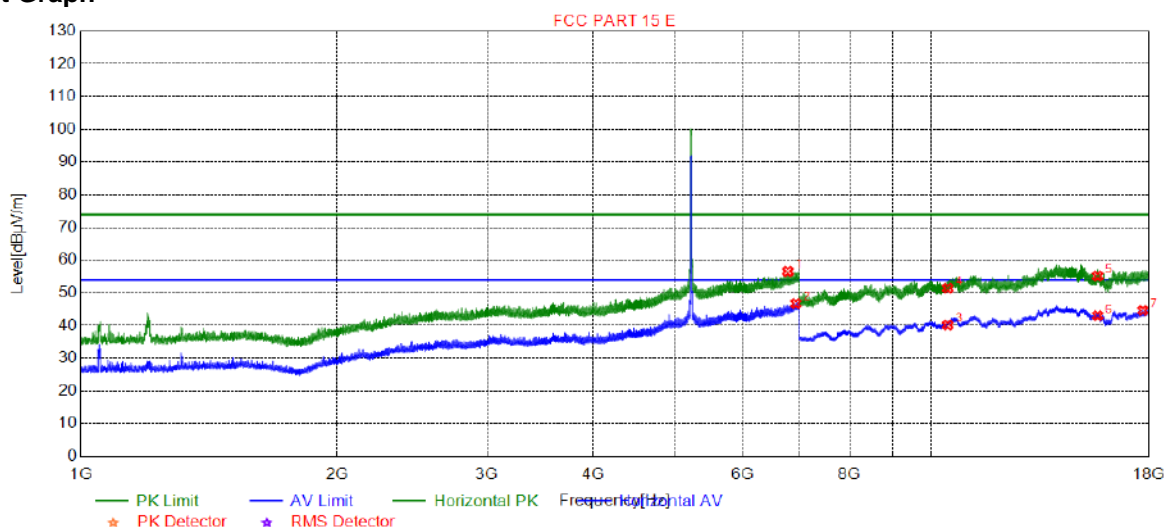
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6930.09	47.53	21.08	54.00	6.47	200	173	Vertical
2	6942.69	56.61	21.19	74.00	17.39	241	326	Vertical
3	10360.0	39.92	-3.63	54.00	14.08	168	69	Vertical
4	10360.0	50.24	-3.63	74.00	23.76	269	320	Vertical
5	15540.0	52.84	0.46	74.00	21.16	158	119	Vertical
6	15540.0	42.35	0.46	54.00	11.65	235	18	Vertical
7	16387.3	44.78	-1.13	54.00	9.22	288	119	Vertical

Final Data List



4.9.2.15 802.11N20_Channel 44

Test Graph



Suspected List

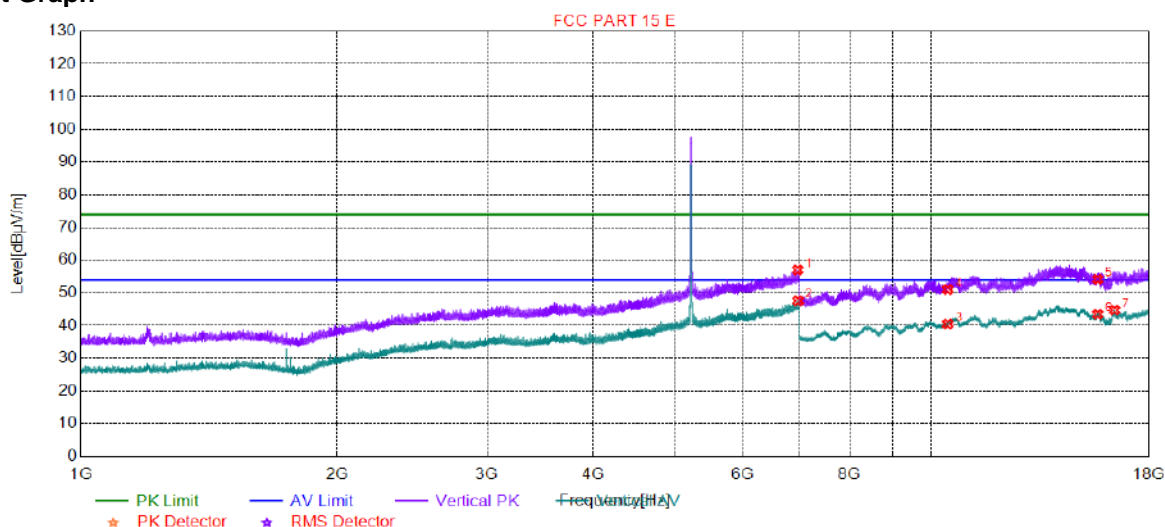
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6772.88	56.58	20.53	74.00	17.42	176	140	Horizontal
2	6922.59	46.78	21.01	54.00	7.22	219	90	Horizontal
3	10440.0	40.18	-3.24	54.00	13.82	180	40	Horizontal
4	10440.0	51.46	-3.24	74.00	22.54	189	90	Horizontal
5	15660.0	55.18	0.43	74.00	18.82	110	0	Horizontal
6	15660.0	43.08	0.43	54.00	10.92	203	190	Horizontal
7	17701.3	44.69	-0.67	54.00	9.31	125	241	Horizontal

Final Data List



4.9.2.16 802.11N20_Channel 44

Test Graph



Suspected List

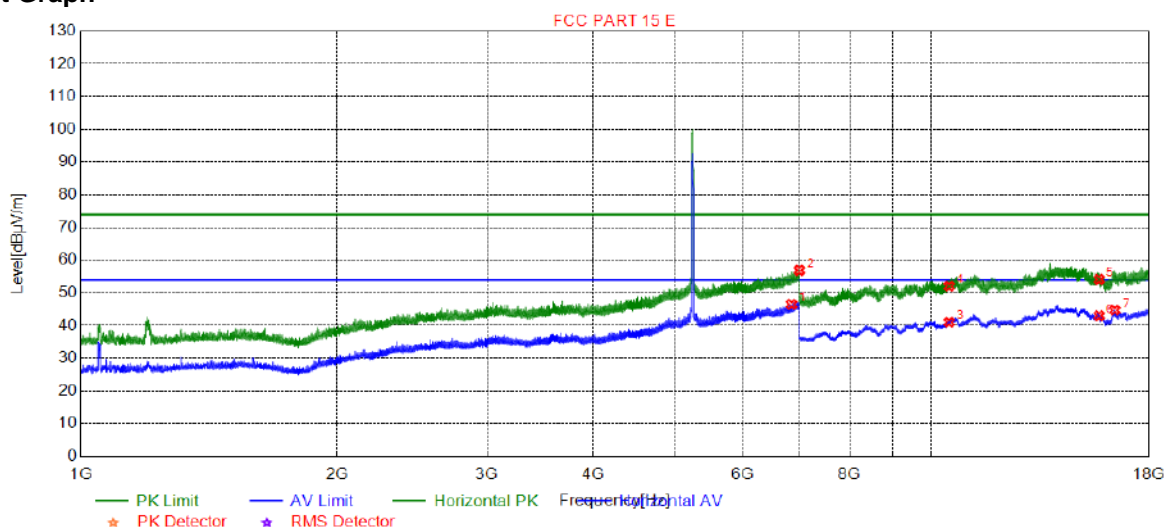
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6953.19	57.02	21.26	74.00	16.98	253	18	Vertical
2	6960.09	47.60	21.26	54.00	6.40	212	323	Vertical
3	10440.0	40.48	-3.24	54.00	13.52	181	270	Vertical
4	10440.0	51.07	-3.24	74.00	22.93	274	270	Vertical
5	15660.0	54.21	0.43	74.00	19.79	232	68	Vertical
6	15660.0	43.51	0.43	54.00	10.49	251	270	Vertical
7	16392.8	44.78	-1.12	54.00	9.22	161	68	Vertical

Final Data List



4.9.2.17 802.11N20_Channel 48

Test Graph



Suspected List

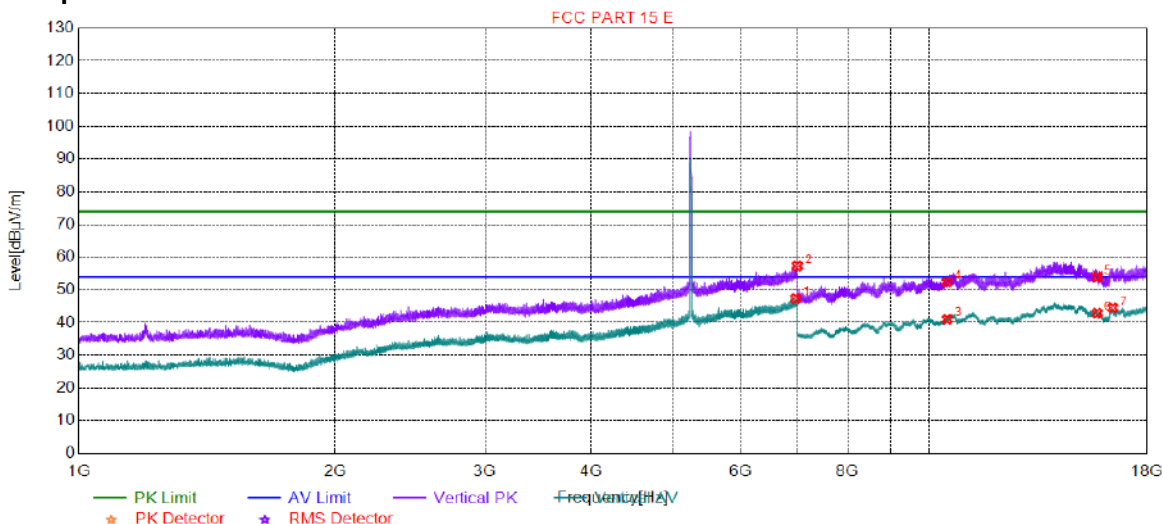
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6840.09	46.52	20.79	54.00	7.48	219	342	Horizontal
2	6986.49	56.91	21.27	74.00	17.09	120	140	Horizontal
3	10480.0	41.05	-2.94	54.00	12.95	214	92	Horizontal
4	10480.0	52.08	-2.94	74.00	21.92	137	241	Horizontal
5	15720.0	54.16	0.29	74.00	19.84	233	241	Horizontal
6	15720.0	43.04	0.29	54.00	10.96	157	292	Horizontal
7	16403.2	44.79	-1.12	54.00	9.21	244	191	Horizontal

Final Data List



4.9.2.18 802.11N20_Channel 48

Test Graph



Suspected List

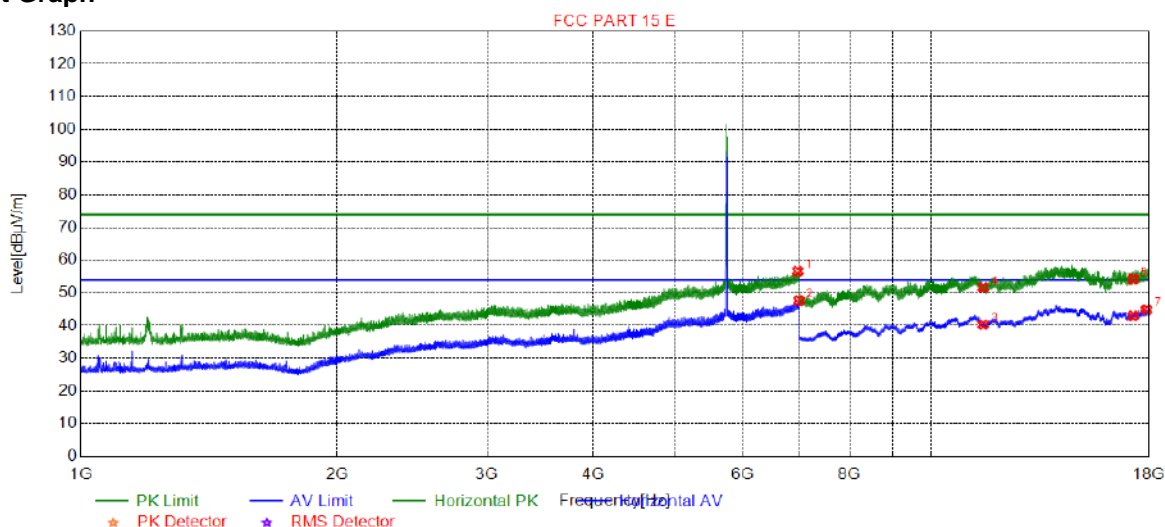
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6953.49	47.36	21.26	54.00	6.64	191	219	Vertical
2	6985.29	57.31	21.27	74.00	16.69	259	360	Vertical
3	10480.0	41.02	-2.94	54.00	12.98	185	119	Vertical
4	10480.0	52.38	-2.94	74.00	21.62	244	360	Vertical
5	15720.0	54.04	0.29	74.00	19.96	267	69	Vertical
6	15720.0	42.92	0.29	54.00	11.08	280	169	Vertical
7	16399.9	44.58	-1.12	54.00	9.42	231	269	Vertical

Final Data List



4.9.2.19 802.11N20_Channel 149

Test Graph



Suspected List

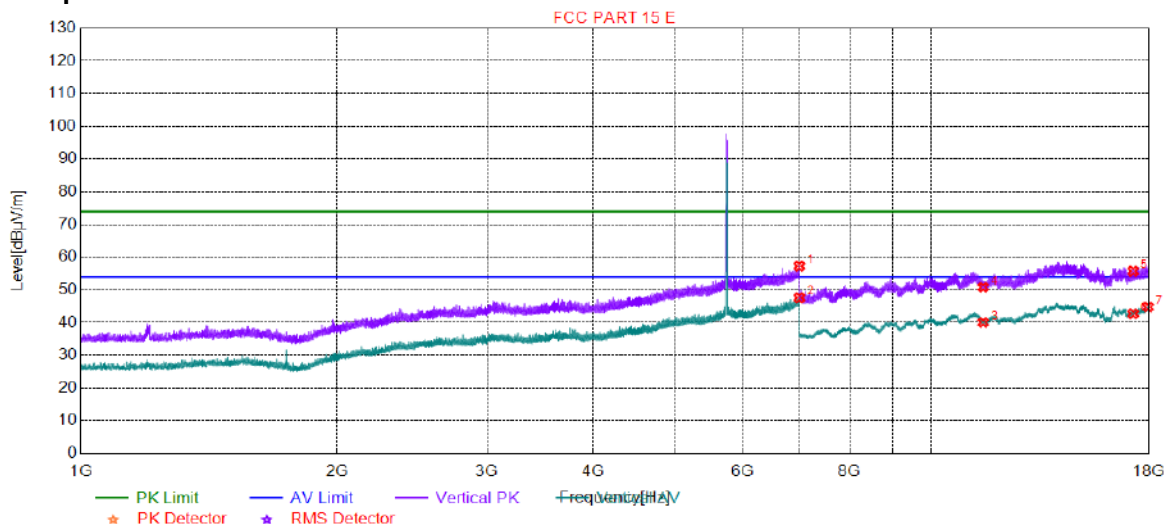
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6953.19	56.64	21.26	74.00	17.36	108	41	Horizontal
2	6978.99	47.63	21.26	54.00	6.37	150	292	Horizontal
3	11490.0	40.29	-2.03	54.00	13.71	148	241	Horizontal
4	11490.0	51.70	-2.03	74.00	22.30	156	190	Horizontal
5	17235.0	54.28	-2.67	74.00	19.72	126	0	Horizontal
6	17235.0	43.02	-2.67	54.00	10.98	165	140	Horizontal
7	17882.2	44.90	-1.54	54.00	9.10	169	342	Horizontal

Final Data List



4.9.2.20 802.11N20_Channel 149

Test Graph



Suspected List

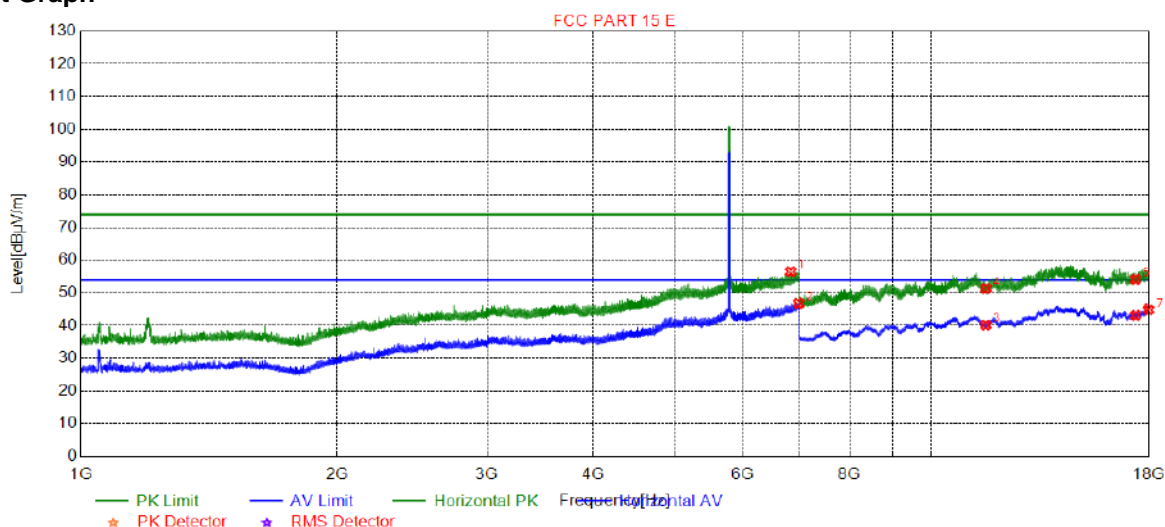
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6985.59	57.28	21.27	74.00	16.72	153	168	Vertical
2	6985.59	47.61	21.27	54.00	6.39	171	18	Vertical
3	11490.0	40.07	-2.03	54.00	13.93	152	169	Vertical
4	11490.0	50.83	-2.03	74.00	23.17	292	18	Vertical
5	17235.0	55.75	-2.67	74.00	18.25	293	119	Vertical
6	17235.0	42.75	-2.67	54.00	11.25	172	270	Vertical
7	17951.0	44.83	-1.29	54.00	9.17	232	360	Vertical

Final Data List



4.9.2.21 802.11N20_Channel 157

Test Graph



Suspected List

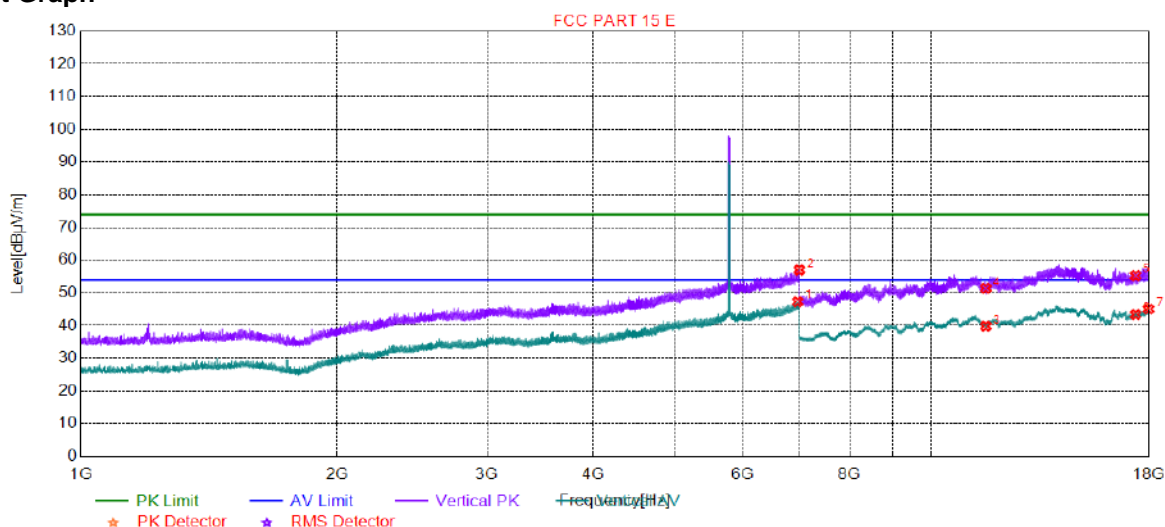
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6826.59	56.51	20.66	74.00	17.49	233	41	Horizontal
2	6968.79	46.81	21.26	54.00	7.19	160	242	Horizontal
3	11570.0	40.13	-2.39	54.00	13.87	138	92	Horizontal
4	11570.0	51.35	-2.39	74.00	22.65	243	142	Horizontal
5	17355.0	54.20	-1.94	74.00	19.80	109	142	Horizontal
6	17355.0	43.15	-1.94	54.00	10.85	190	41	Horizontal
7	17973.0	44.87	-1.29	54.00	9.13	192	41	Horizontal

Final Data List



4.9.2.22 802.11N20_Channel 157

Test Graph



Suspected List

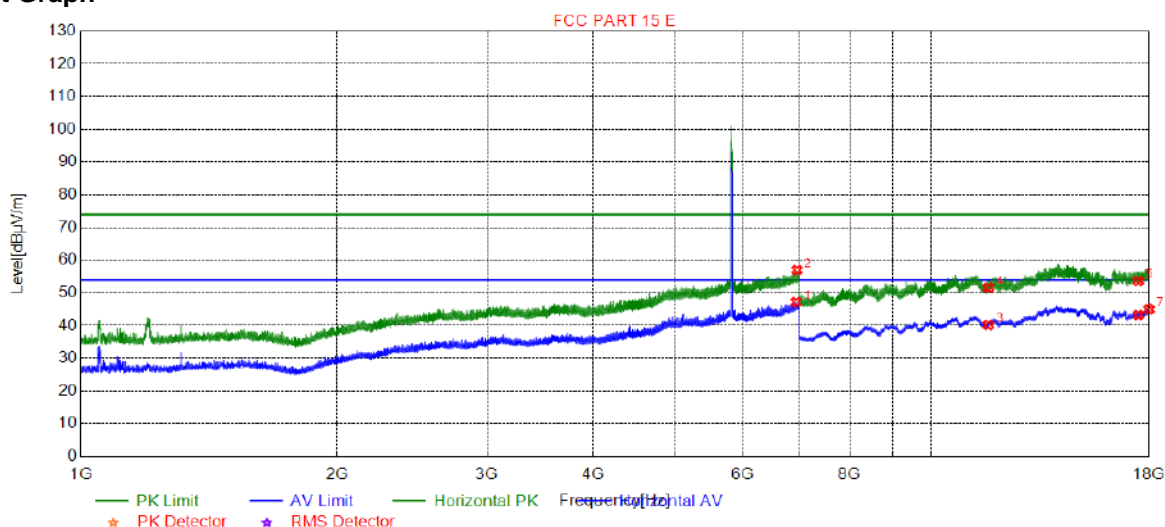
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6952.59	47.31	21.26	54.00	6.69	255	170	Vertical
2	6985.89	57.02	21.27	74.00	16.98	234	360	Vertical
3	11570.0	39.82	-2.39	54.00	14.18	209	18	Vertical
4	11570.0	51.41	-2.39	74.00	22.59	254	169	Vertical
5	17355.0	55.31	-1.94	74.00	18.69	207	319	Vertical
6	17355.0	43.42	-1.94	54.00	10.58	200	18	Vertical
7	17971.9	45.11	-1.29	54.00	8.89	198	319	Vertical

Final Data List



4.9.2.23 802.11N20_Channel 165

Test Graph



Suspected List

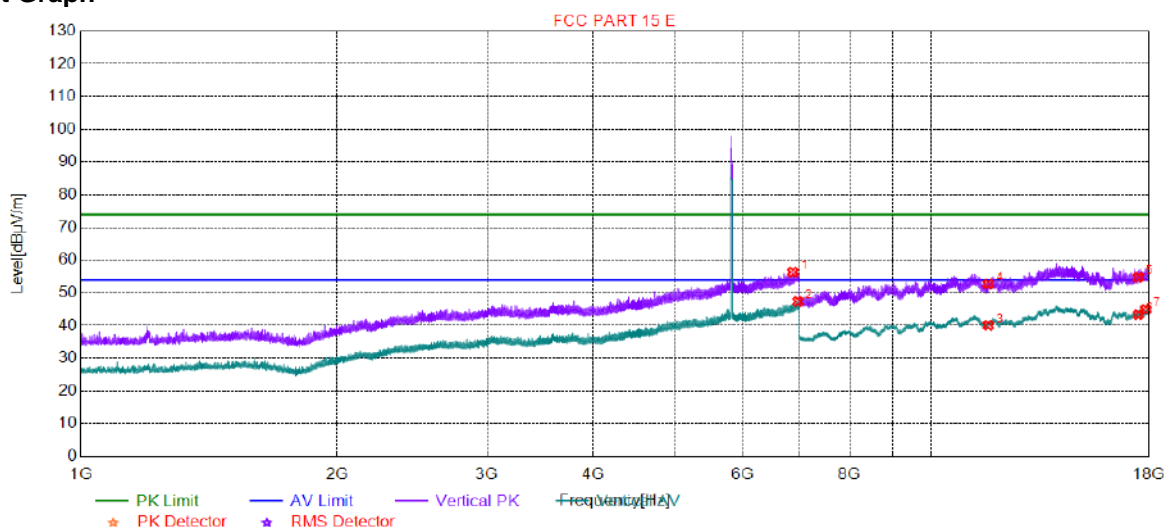
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6926.79	47.20	21.05	54.00	6.80	227	241	Horizontal
2	6940.59	56.98	21.17	74.00	17.02	115	140	Horizontal
3	11650.0	40.20	-2.49	54.00	13.80	141	0	Horizontal
4	11650.0	51.62	-2.49	74.00	22.38	186	342	Horizontal
5	17475.0	53.67	-1.24	74.00	20.33	199	141	Horizontal
6	17475.0	43.25	-1.24	54.00	10.75	124	40	Horizontal
7	17995.0	45.01	-1.28	54.00	8.99	219	342	Horizontal

Final Data List



4.9.2.24 802.11N20_Channel 165

Test Graph



Suspected List

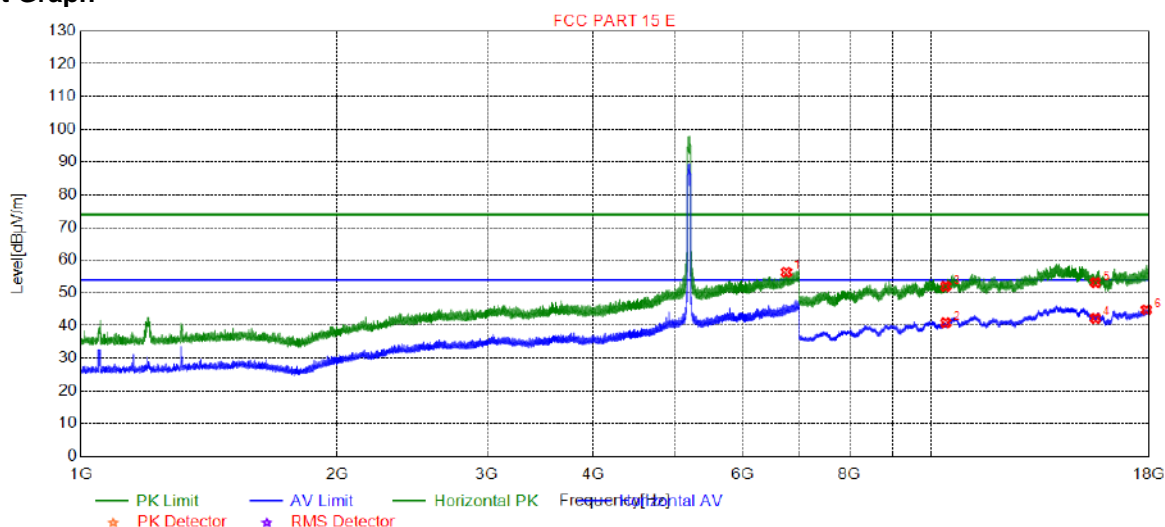
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6865.59	56.33	20.86	74.00	17.67	263	68	Vertical
2	6956.49	47.40	21.26	54.00	6.60	218	319	Vertical
3	11650.0	40.10	-2.49	54.00	13.90	166	269	Vertical
4	11650.0	52.77	-2.49	74.00	21.23	181	169	Vertical
5	17475.0	54.78	-1.24	74.00	19.22	175	319	Vertical
6	17475.0	43.40	-1.24	54.00	10.60	208	18	Vertical
7	17837.1	44.97	-2.14	54.00	9.03	232	220	Vertical

Final Data List



4.9.2.25 802.11N40_Channel 38

Test Graph



Suspected List

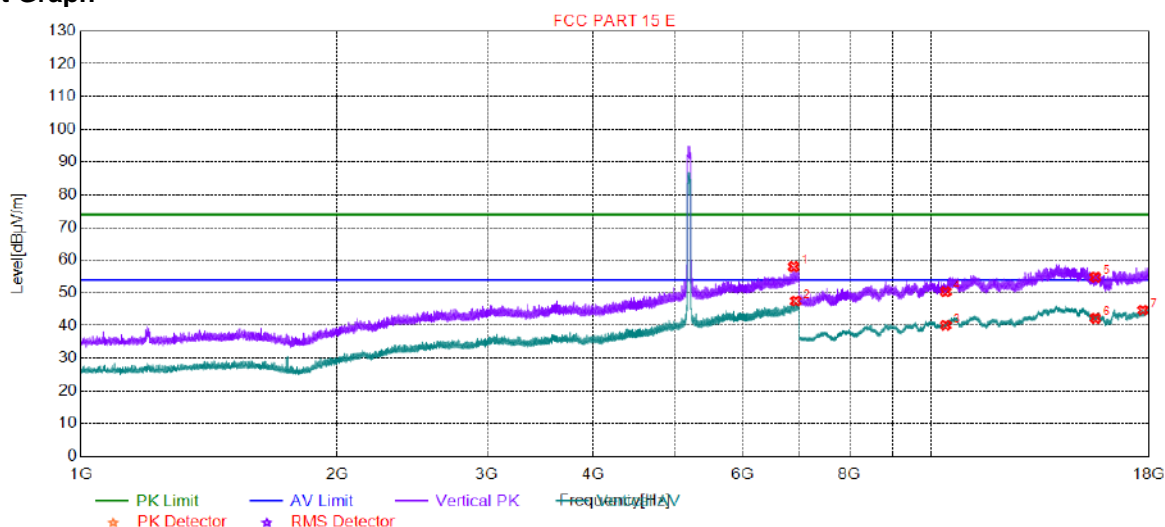
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6744.38	56.33	20.54	74.00	17.67	248	138	Horizontal
2	10380.0	40.87	-3.60	54.00	13.13	129	292	Horizontal
3	10380.0	52.02	-3.60	74.00	21.98	133	241	Horizontal
4	15570.0	42.24	0.29	54.00	11.76	107	292	Horizontal
5	15570.0	53.18	0.29	74.00	20.82	111	0	Horizontal
6	17872.3	44.88	-1.67	54.00	9.12	167	241	Horizontal

Final Data List



4.9.2.26 802.11N40_Channel 38

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6879.69	58.01	20.84	74.00	15.99	200	360	Vertical
2	6920.19	47.52	20.99	54.00	6.48	165	18	Vertical
3	10380.0	40.12	-3.60	54.00	13.88	237	168	Vertical
4	10380.0	50.35	-3.60	74.00	23.65	174	69	Vertical
5	15570.0	54.80	0.29	74.00	19.20	161	268	Vertical
6	15570.0	42.25	0.29	54.00	11.75	284	69	Vertical
7	17701.3	44.76	-0.67	54.00	9.24	235	360	Vertical

Final Data List

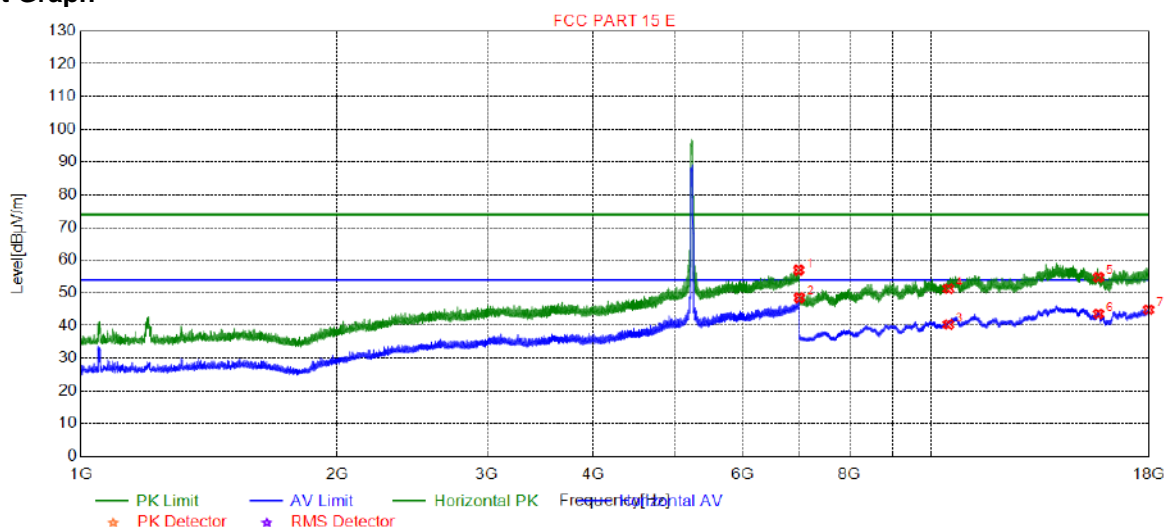


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4.9.2.27 802.11N40_Channel 46

Test Graph



Suspected List

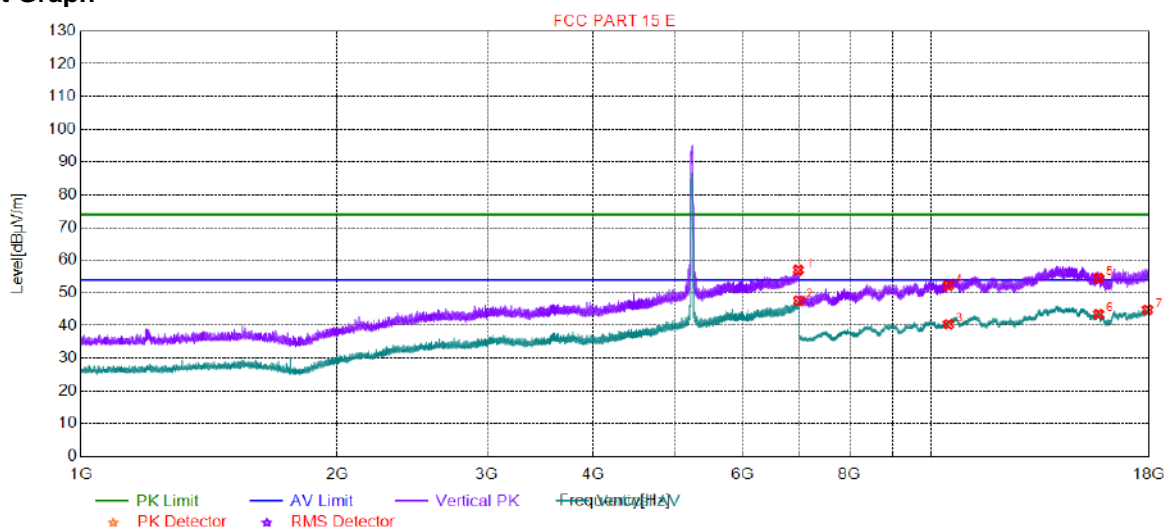
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6972.69	56.99	21.26	74.00	17.01	249	241	Horizontal
2	6984.39	48.51	21.27	54.00	5.49	181	241	Horizontal
3	10460.0	40.34	-3.09	54.00	13.66	158	93	Horizontal
4	10460.0	51.32	-3.09	74.00	22.68	176	143	Horizontal
5	15690.0	54.77	0.58	74.00	19.23	153	0	Horizontal
6	15690.0	43.60	0.58	54.00	10.40	191	0	Horizontal
7	17972.4	44.91	-1.29	54.00	9.09	236	143	Horizontal

Final Data List



4.9.2.28 802.11N40_Channel 46

Test Graph



Suspected List

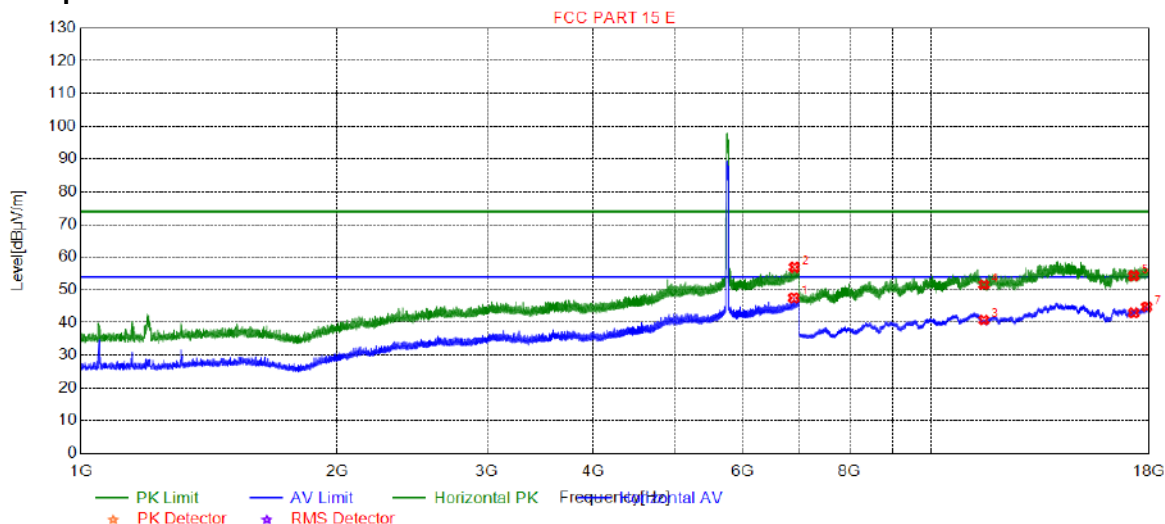
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6963.39	57.00	21.26	74.00	17.00	238	170	Vertical
2	6973.89	47.61	21.26	54.00	6.39	271	119	Vertical
3	10460.0	40.42	-3.09	54.00	13.58	257	18	Vertical
4	10460.0	52.30	-3.09	74.00	21.70	186	360	Vertical
5	15690.0	54.50	0.58	74.00	19.50	201	218	Vertical
6	15690.0	43.54	0.58	54.00	10.46	249	68	Vertical
7	17926.2	44.88	-1.30	54.00	9.12	227	168	Vertical

Final Data List



4.9.2.29 802.11N40_Channel 151

Test Graph



Suspected List

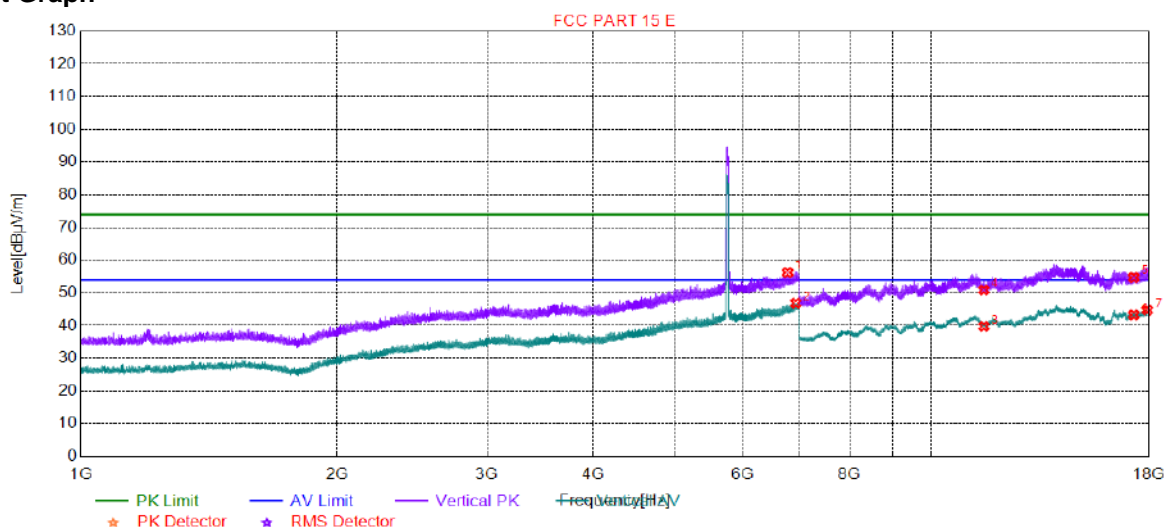
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6884.49	47.56	20.83	54.00	6.44	244	242	Horizontal
2	6895.89	56.94	20.82	74.00	17.06	112	141	Horizontal
3	11510.0	40.80	-2.07	54.00	13.20	239	241	Horizontal
4	11510.0	51.62	-2.07	74.00	22.38	207	40	Horizontal
5	17265.0	54.35	-2.46	74.00	19.65	135	241	Horizontal
6	17265.0	42.99	-2.46	54.00	11.01	100	90	Horizontal
7	17888.3	44.88	-1.46	54.00	9.12	148	90	Horizontal

Final Data List



4.9.2.30 802.11N40_Channel 151

Test Graph



Suspected List

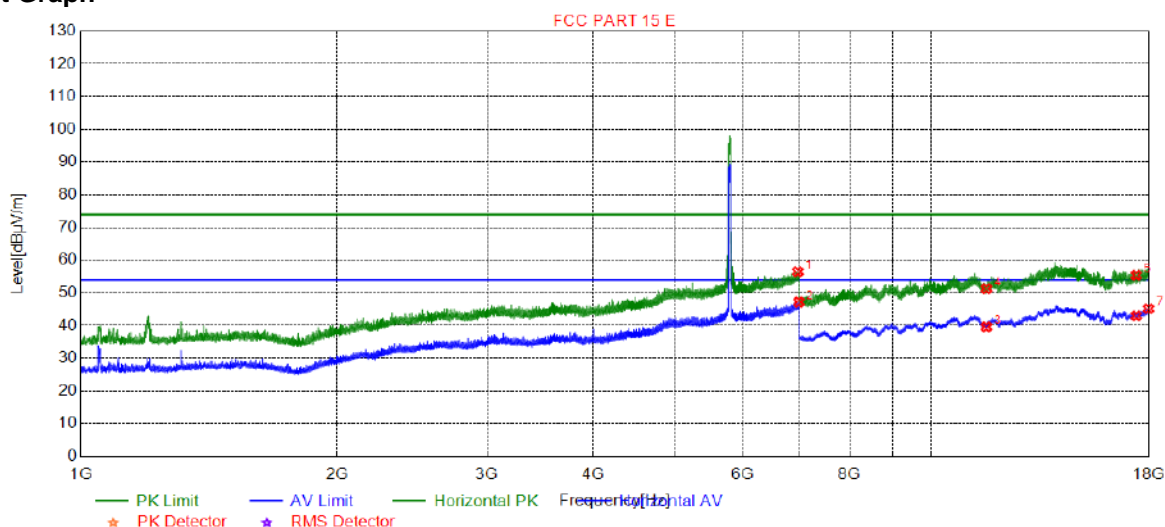
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6767.78	56.23	20.56	74.00	17.77	224	270	Vertical
2	6920.79	46.88	21.00	54.00	7.12	243	119	Vertical
3	11510.0	39.76	-2.07	54.00	14.24	161	18	Vertical
4	11510.0	50.89	-2.07	74.00	23.11	161	319	Vertical
5	17265.0	54.73	-2.46	74.00	19.27	256	119	Vertical
6	17265.0	43.30	-2.46	54.00	10.70	278	18	Vertical
7	17911.4	44.80	-1.31	54.00	9.20	215	18	Vertical

Final Data List



4.9.2.31 802.11N40_Channel 159

Test Graph



Suspected List

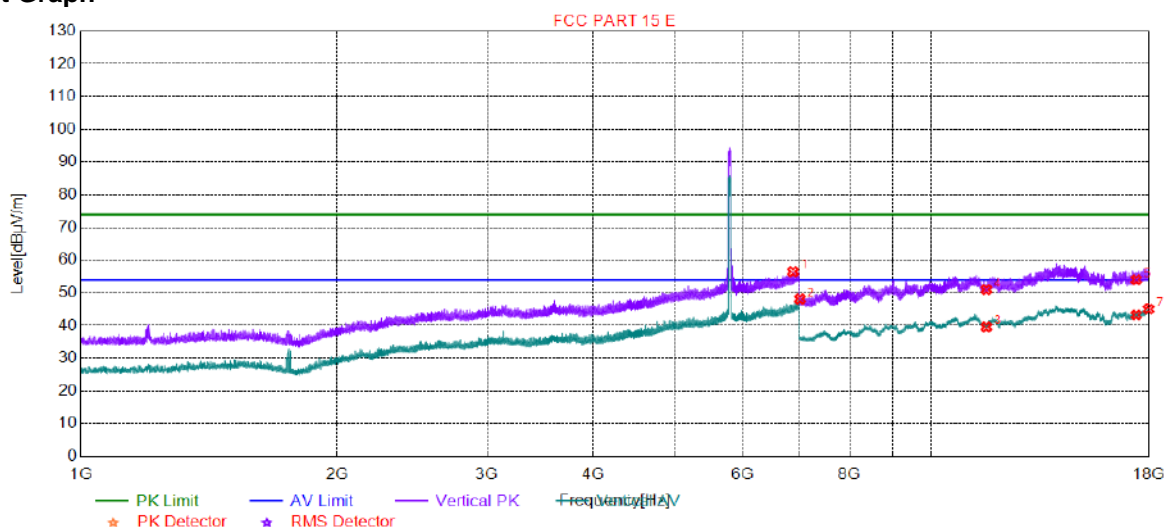
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6955.89	56.48	21.26	74.00	17.52	196	41	Horizontal
2	6975.99	47.22	21.26	54.00	6.78	217	342	Horizontal
3	11590.0	39.59	-2.50	54.00	14.41	162	91	Horizontal
4	11590.0	51.31	-2.50	74.00	22.69	105	42	Horizontal
5	17385.0	55.43	-1.79	74.00	18.57	189	241	Horizontal
6	17385.0	43.03	-1.79	54.00	10.97	107	42	Horizontal
7	17969.7	45.22	-1.29	54.00	8.78	216	141	Horizontal

Final Data List



4.9.2.32 802.11N40_Channel 159

Test Graph



Suspected List

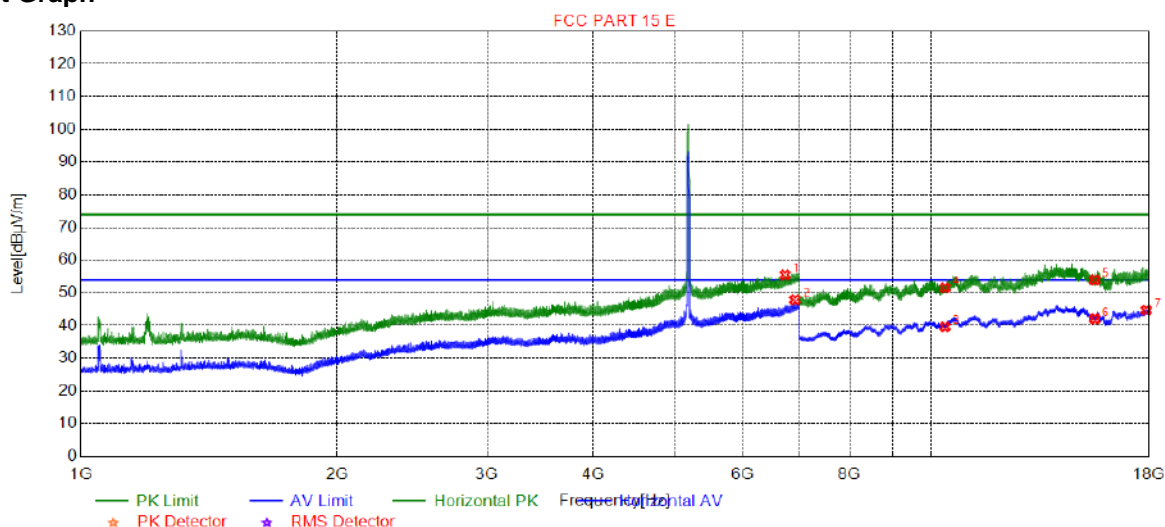
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6867.99	56.49	20.86	74.00	17.51	239	18	Vertical
2	6998.49	48.14	21.27	54.00	5.86	277	360	Vertical
3	11590.0	39.58	-2.50	54.00	14.42	225	68	Vertical
4	11590.0	51.03	-2.50	74.00	22.97	212	218	Vertical
5	17385.0	54.07	-1.79	74.00	19.93	154	119	Vertical
6	17385.0	43.29	-1.79	54.00	10.71	156	119	Vertical
7	17972.4	45.09	-1.29	54.00	8.91	287	68	Vertical

Final Data List



4.9.2.33 802.11AC20_Channel 36

Test Graph



Suspected List

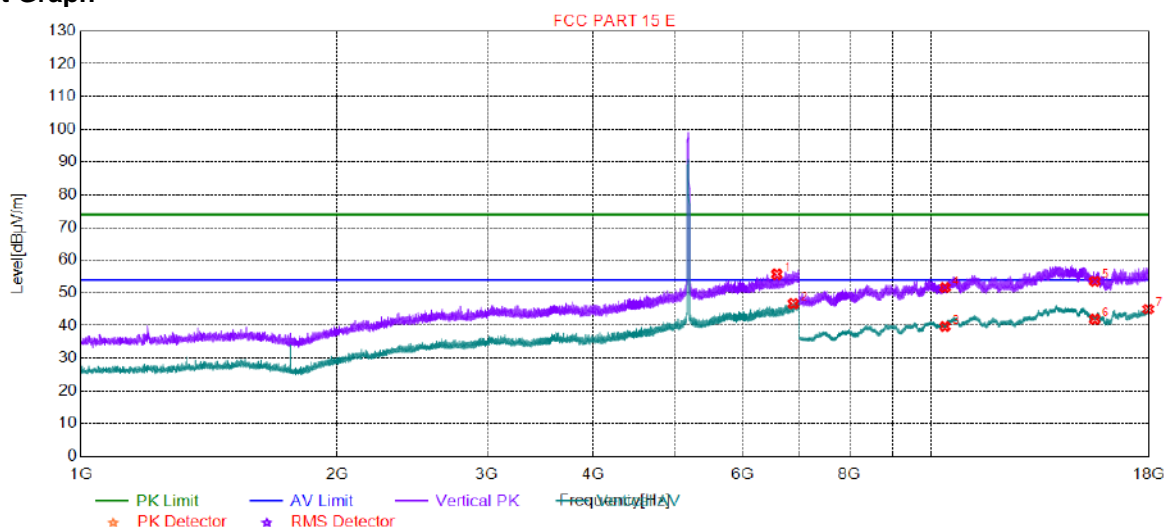
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6722.48	55.54	20.15	74.00	18.46	233	91	Horizontal
2	6906.99	47.90	20.87	54.00	6.10	176	342	Horizontal
3	10360.0	39.62	-3.63	54.00	14.38	186	0	Horizontal
4	10360.0	51.60	-3.63	74.00	22.40	106	0	Horizontal
5	15540.0	53.99	0.46	74.00	20.01	188	91	Horizontal
6	15540.0	42.09	0.46	54.00	11.91	117	91	Horizontal
7	17866.3	44.76	-1.75	54.00	9.24	219	241	Horizontal

Final Data List



4.9.2.34 802.11AC20_Channel 36

Test Graph



Suspected List

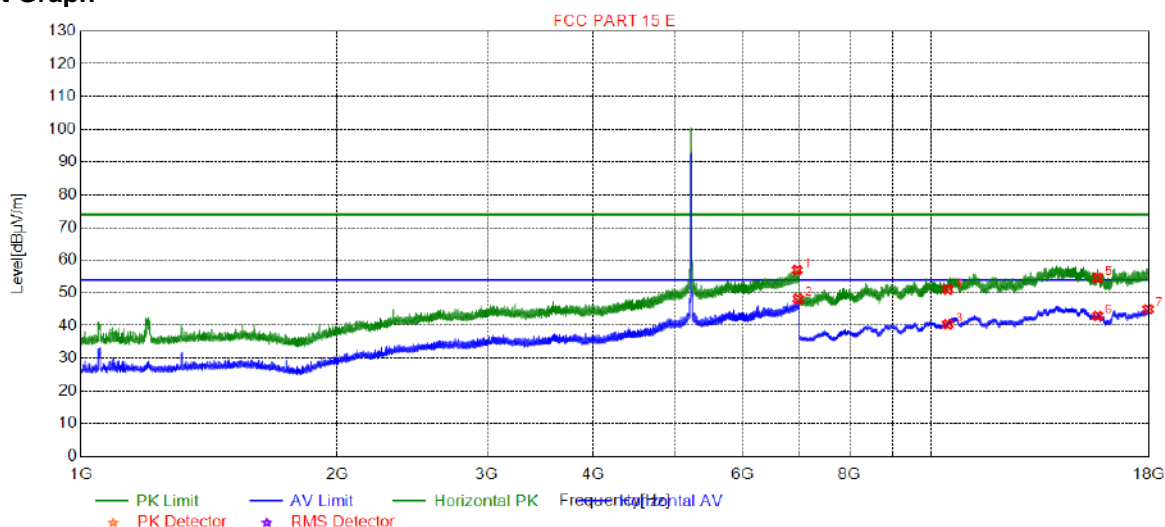
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6572.77	55.72	19.54	74.00	18.28	175	270	Vertical
2	6875.19	46.75	20.85	54.00	7.25	177	360	Vertical
3	10360.0	39.72	-3.63	54.00	14.28	226	18	Vertical
4	10360.0	51.66	-3.63	74.00	22.34	241	167	Vertical
5	15540.0	53.58	0.46	74.00	20.42	241	18	Vertical
6	15540.0	41.95	0.46	54.00	12.05	274	167	Vertical
7	17953.7	45.08	-1.29	54.00	8.92	238	67	Vertical

Final Data List



4.9.2.35 802.11AC20_Channel 44

Test Graph



Suspected List

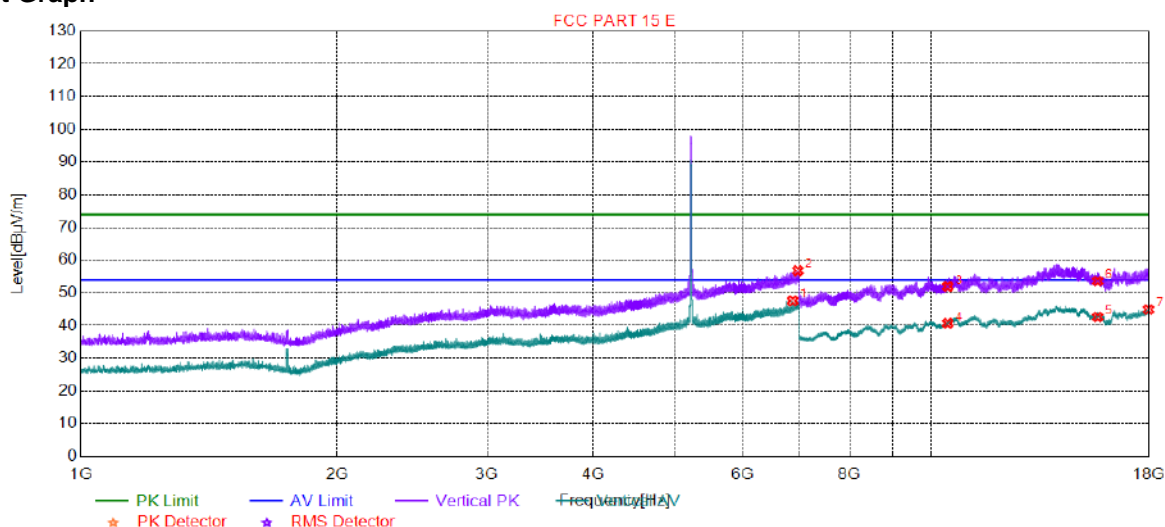
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6942.69	56.98	21.19	74.00	17.02	199	292	Horizontal
2	6960.39	48.19	21.26	54.00	5.81	228	342	Horizontal
3	10440.0	40.39	-3.24	54.00	13.61	166	342	Horizontal
4	10440.0	51.08	-3.24	74.00	22.92	104	240	Horizontal
5	15660.0	54.55	0.43	74.00	19.45	112	189	Horizontal
6	15660.0	43.00	0.43	54.00	11.00	186	89	Horizontal
7	17948.2	45.05	-1.30	54.00	8.95	120	139	Horizontal

Final Data List



4.9.2.36 802.11AC20_Channel 44

Test Graph



Suspected List

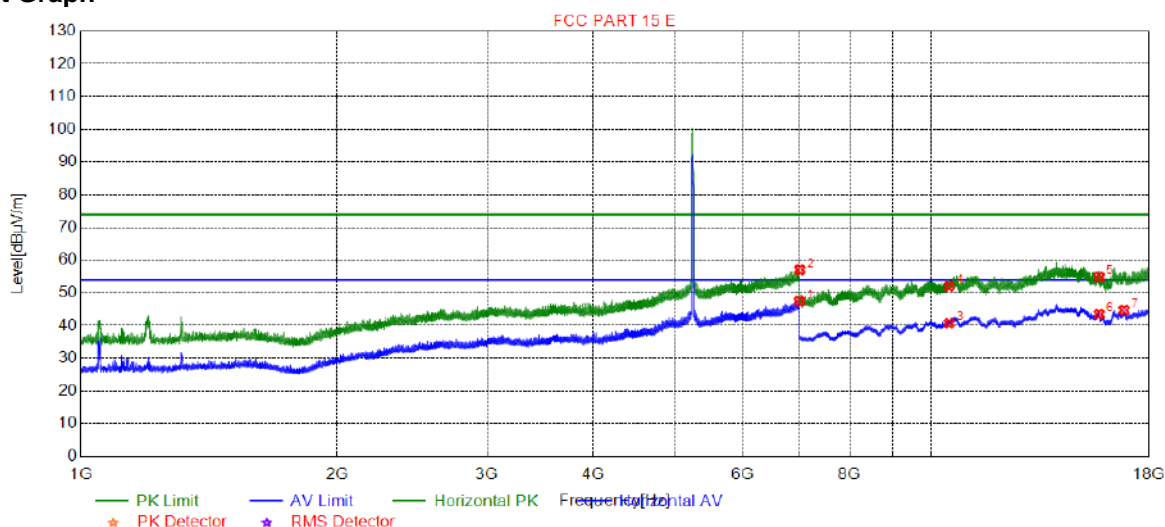
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6862.89	47.59	20.87	54.00	6.41	236	220	Vertical
2	6956.19	56.78	21.26	74.00	17.22	170	360	Vertical
3	10440.0	51.99	-3.24	74.00	22.01	242	69	Vertical
4	10440.0	40.71	-3.24	54.00	13.29	182	18	Vertical
5	15660.0	42.65	0.43	54.00	11.35	180	18	Vertical
6	15660.0	53.65	0.43	74.00	20.35	235	18	Vertical
7	17970.8	44.97	-1.29	54.00	9.03	206	18	Vertical

Final Data List



4.9.2.37 802.11AC20_Channel 48

Test Graph



Suspected List

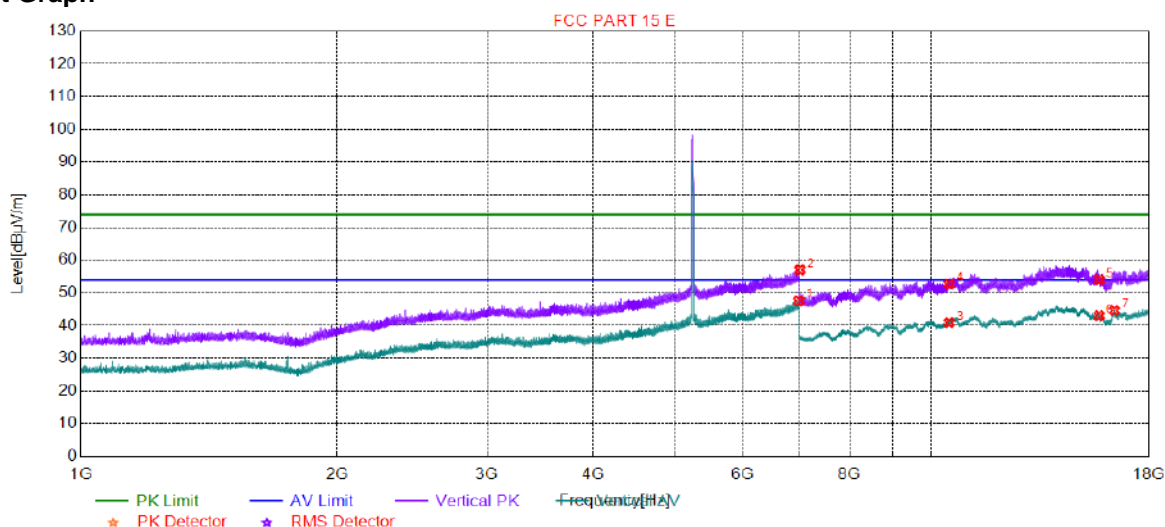
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.79	47.48	21.27	54.00	6.52	133	342	Horizontal
2	6994.59	57.07	21.27	74.00	16.93	117	342	Horizontal
3	10480.0	40.75	-2.94	54.00	13.25	180	191	Horizontal
4	10480.0	52.05	-2.94	74.00	21.95	214	191	Horizontal
5	15720.0	54.87	0.29	74.00	19.13	185	241	Horizontal
6	15720.0	43.55	0.29	54.00	10.45	235	292	Horizontal
7	16820.7	44.80	-0.58	54.00	9.20	192	41	Horizontal

Final Data List



4.9.2.38 802.11AC20_Channel 48

Test Graph



Suspected List

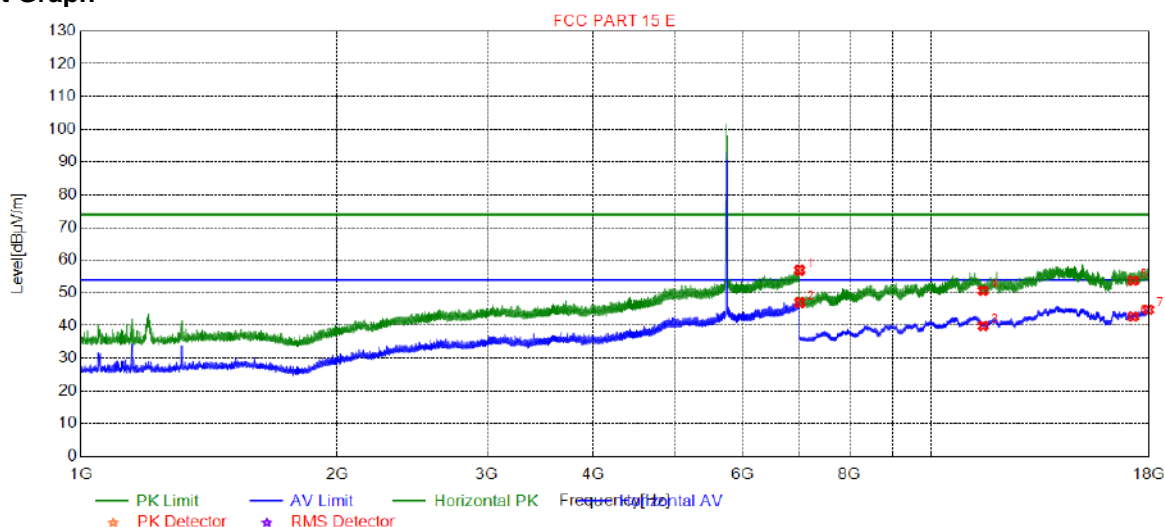
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6972.69	47.57	21.26	54.00	6.43	260	119	Vertical
2	6996.69	57.06	21.27	74.00	16.94	224	18	Vertical
3	10480.0	40.92	-2.94	54.00	13.08	165	360	Vertical
4	10480.0	52.70	-2.94	74.00	21.30	185	270	Vertical
5	15720.0	54.04	0.29	74.00	19.96	206	319	Vertical
6	15720.0	43.07	0.29	54.00	10.93	159	69	Vertical
7	16387.8	44.67	-1.13	54.00	9.33	230	270	Vertical

Final Data List



4.9.2.39 802.11AC20_Channel 149

Test Graph



Suspected List

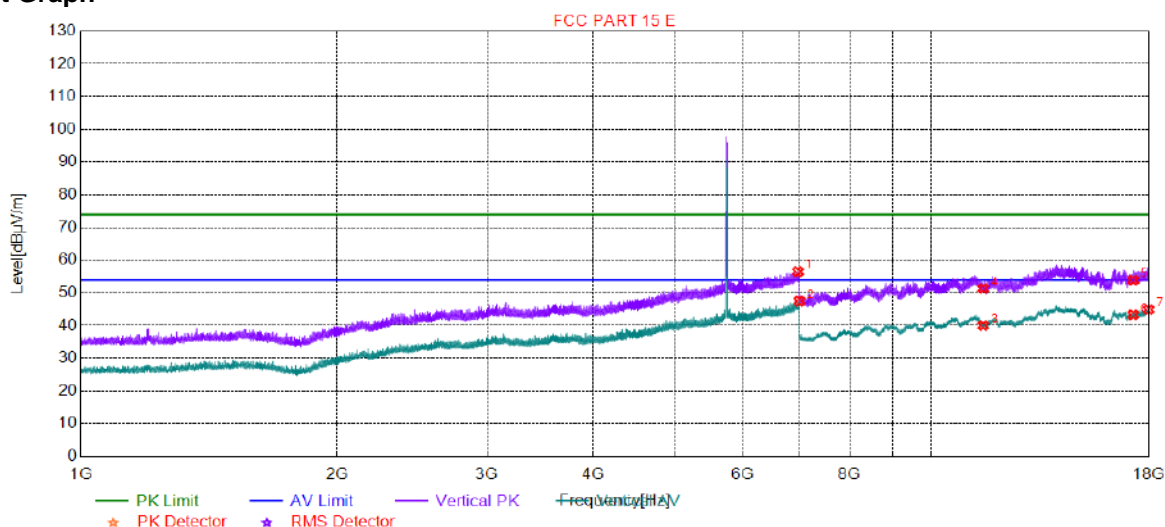
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6990.69	56.96	21.27	74.00	17.04	139	191	Horizontal
2	6994.59	47.08	21.27	54.00	6.92	104	40	Horizontal
3	11490.0	39.87	-2.03	54.00	14.13	105	34	Horizontal
4	11490.0	50.68	-2.03	74.00	23.32	157	239	Horizontal
5	17235.0	53.78	-2.67	74.00	20.22	161	34	Horizontal
6	17235.0	42.81	-2.67	54.00	11.19	241	34	Horizontal
7	17965.3	44.91	-1.29	54.00	9.09	168	184	Horizontal

Final Data List



4.9.2.40 802.11AC20_Channel 149

Test Graph



Suspected List

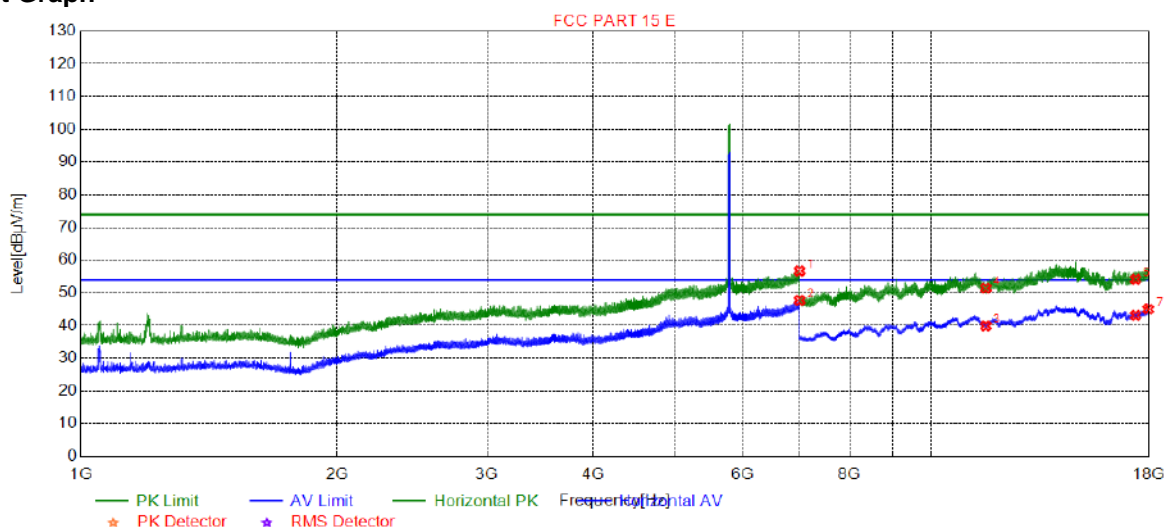
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6958.59	56.50	21.26	74.00	17.50	181	170	Vertical
2	6985.29	47.53	21.27	54.00	6.47	171	119	Vertical
3	11490.0	40.03	-2.03	54.00	13.97	213	218	Vertical
4	11490.0	51.37	-2.03	74.00	22.63	174	218	Vertical
5	17235.0	53.91	-2.67	74.00	20.09	264	360	Vertical
6	17235.0	43.33	-2.67	54.00	10.67	243	168	Vertical
7	17975.7	44.95	-1.29	54.00	9.05	178	18	Vertical

Final Data List



4.9.2.41 802.11AC20_Channel 157

Test Graph



Suspected List

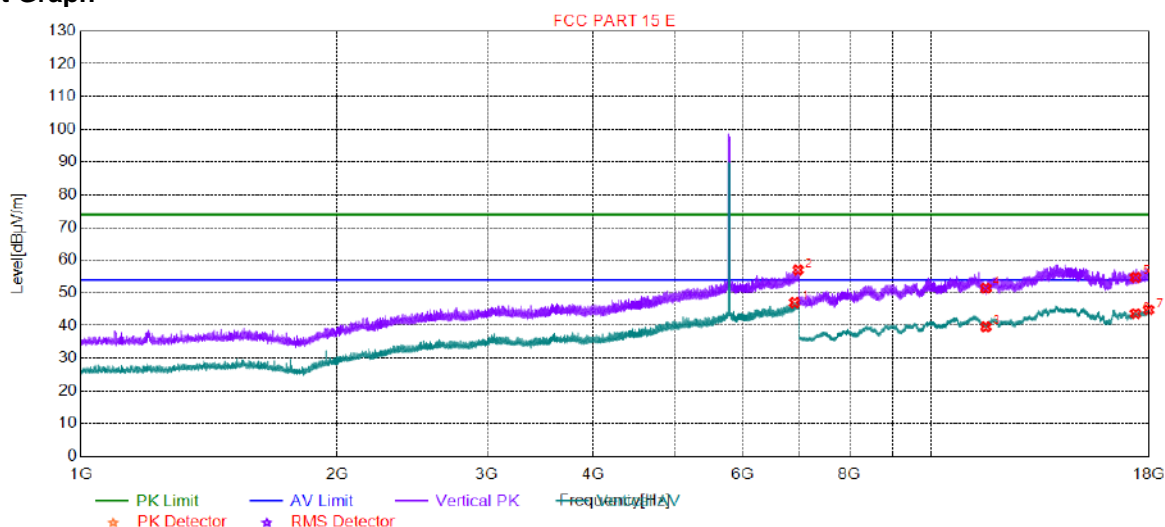
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6990.09	56.70	21.27	74.00	17.30	205	292	Horizontal
2	6990.39	47.72	21.27	54.00	6.28	229	192	Horizontal
3	11570.0	39.89	-2.39	54.00	14.11	147	42	Horizontal
4	11570.0	51.46	-2.39	74.00	22.54	169	242	Horizontal
5	17355.0	54.19	-1.94	74.00	19.81	119	92	Horizontal
6	17355.0	43.17	-1.94	54.00	10.83	226	292	Horizontal
7	17955.9	45.04	-1.29	54.00	8.96	186	42	Horizontal

Final Data List



4.9.2.42 802.11AC20_Channel 157

Test Graph



Suspected List

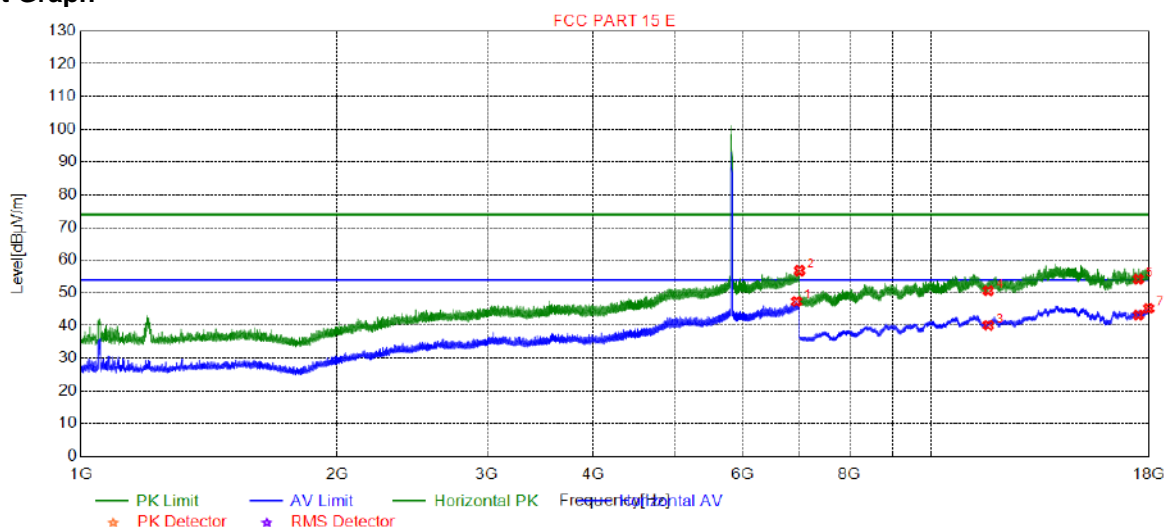
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6898.29	47.04	20.81	54.00	6.96	206	220	Vertical
2	6960.39	57.02	21.26	74.00	16.98	244	220	Vertical
3	11570.0	39.61	-2.39	54.00	14.39	160	68	Vertical
4	11570.0	51.46	-2.39	74.00	22.54	195	118	Vertical
5	17355.0	54.73	-1.94	74.00	19.27	179	168	Vertical
6	17355.0	43.69	-1.94	54.00	10.31	202	118	Vertical
7	17977.4	44.86	-1.29	54.00	9.14	241	268	Vertical

Final Data List



4.9.2.43 802.11AC20_Channel 165

Test Graph



Suspected List

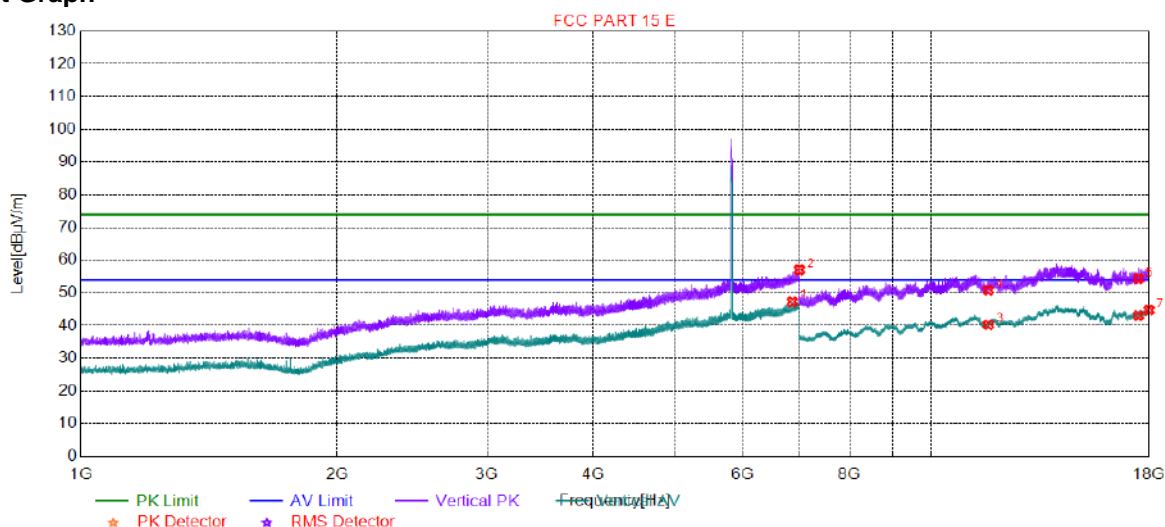
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6934.29	47.37	21.12	54.00	6.63	113	241	Horizontal
2	6988.89	56.81	21.27	74.00	17.19	219	90	Horizontal
3	11650.0	40.10	-2.49	54.00	13.90	109	141	Horizontal
4	11650.0	50.66	-2.49	74.00	23.34	113	292	Horizontal
5	17475.0	54.23	-1.24	74.00	19.77	197	141	Horizontal
6	17475.0	43.23	-1.24	54.00	10.77	179	0	Horizontal
7	17974.1	45.30	-1.29	54.00	8.70	233	342	Horizontal

Final Data List



4.9.2.44 802.11AC20_Channel 165

Test Graph



Suspected List

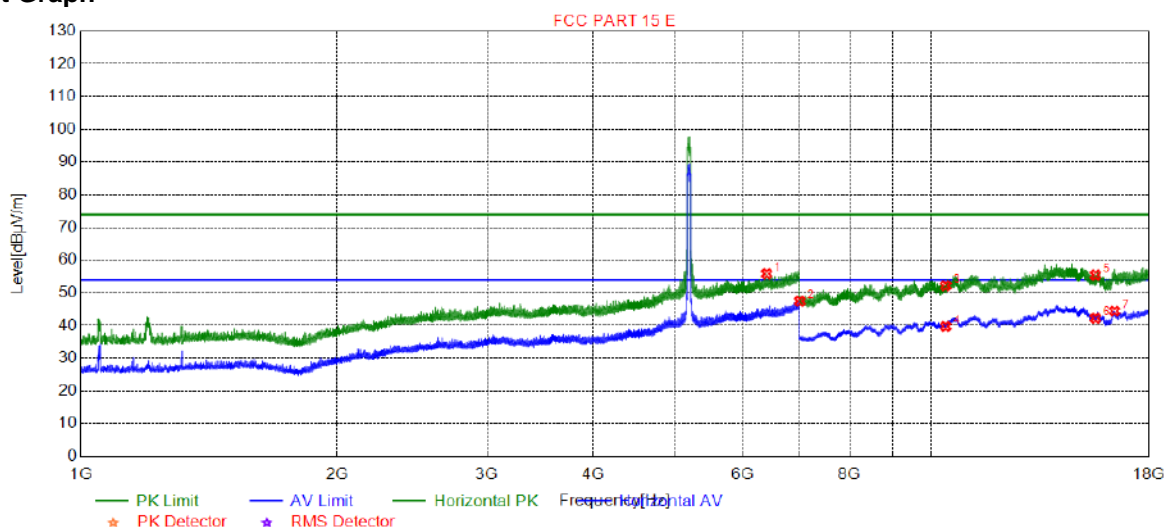
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6854.19	47.29	20.88	54.00	6.71	188	270	Vertical
2	6987.39	57.06	21.27	74.00	16.94	285	169	Vertical
3	11650.0	40.28	-2.49	54.00	13.72	190	269	Vertical
4	11650.0	50.82	-2.49	74.00	23.18	263	68	Vertical
5	17475.0	54.38	-1.24	74.00	19.62	258	68	Vertical
6	17475.0	43.09	-1.24	54.00	10.91	166	169	Vertical
7	17996.6	44.80	-1.28	54.00	9.20	297	319	Vertical

Final Data List



4.9.2.45 802.11AC40_Channel 38

Test Graph



Suspected List

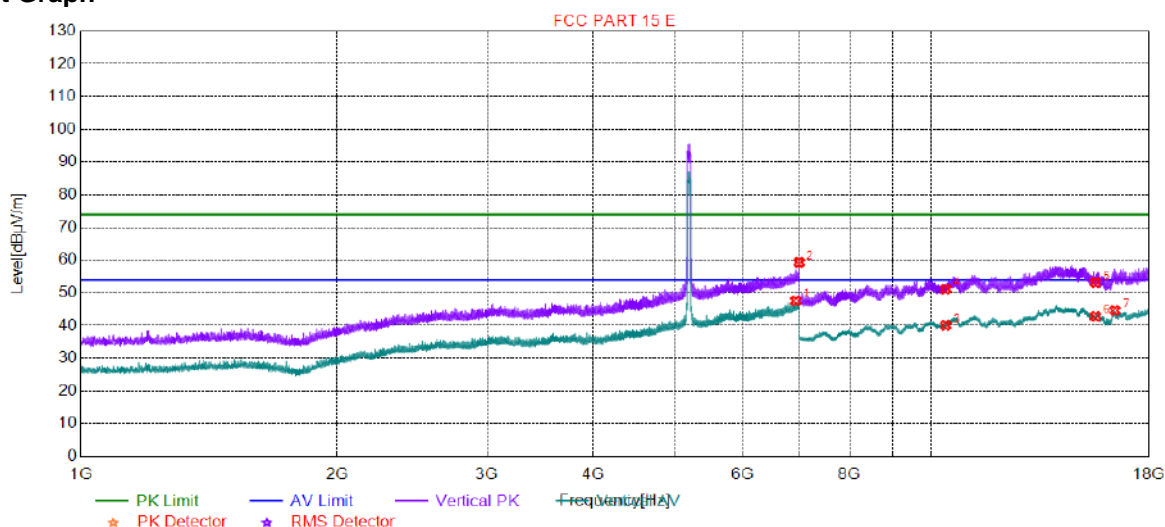
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6395.76	55.87	19.37	74.00	18.13	153	42	Horizontal
2	6995.49	47.48	21.27	54.00	6.52	121	0	Horizontal
3	10380.0	52.22	-3.60	74.00	21.78	167	140	Horizontal
4	10380.0	39.75	-3.60	54.00	14.25	130	0	Horizontal
5	15570.0	55.47	0.29	74.00	18.53	182	241	Horizontal
6	15570.0	42.28	0.29	54.00	11.72	241	140	Horizontal
7	16391.1	44.49	-1.13	54.00	9.51	232	191	Horizontal

Final Data List



4.9.2.46 802.11AC40_Channel 38

Test Graph



Suspected List

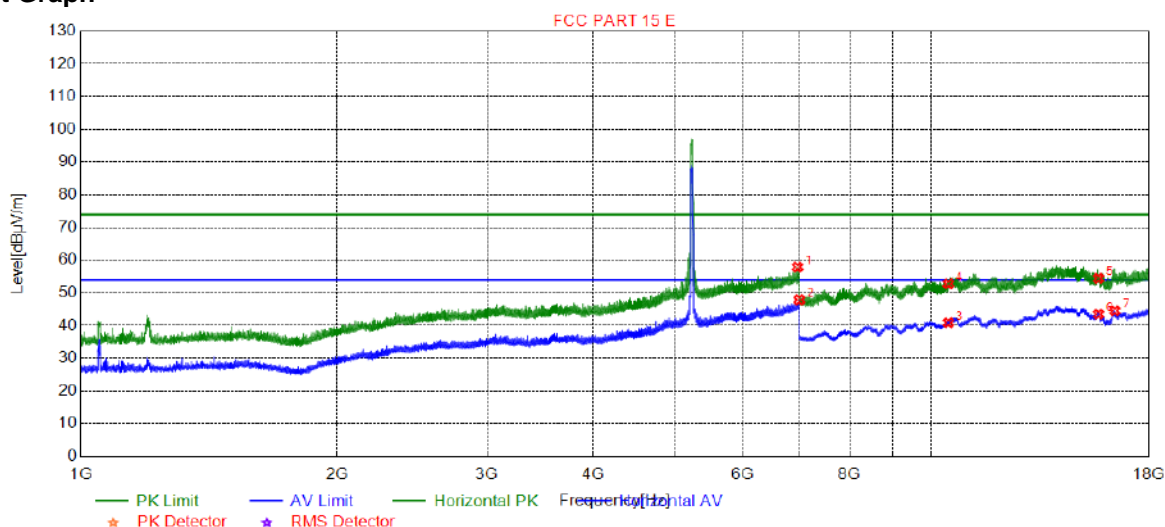
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6920.19	47.58	20.99	54.00	6.42	163	18	Vertical
2	6982.59	59.33	21.26	74.00	14.67	230	169	Vertical
3	10380.0	40.10	-3.60	54.00	13.90	246	18	Vertical
4	10380.0	51.17	-3.60	74.00	22.83	291	360	Vertical
5	15570.0	53.19	0.29	74.00	20.81	230	117	Vertical
6	15570.0	42.86	0.29	54.00	11.14	225	67	Vertical
7	16405.4	44.68	-1.12	54.00	9.32	268	316	Vertical

Final Data List



4.9.2.47 802.11AC40_Channel 46

Test Graph



Suspected List

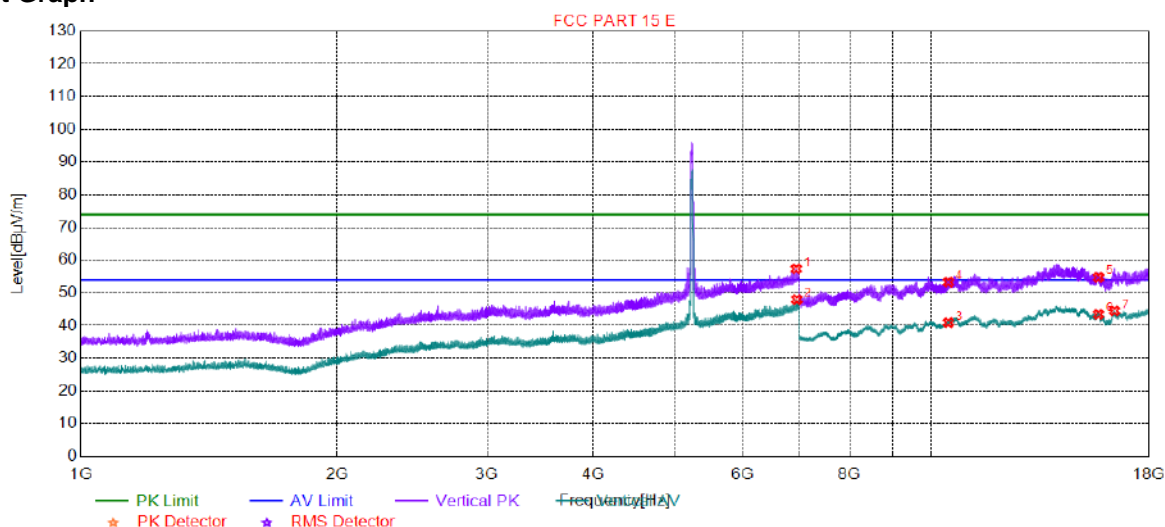
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6950.79	57.90	21.26	74.00	16.10	155	92	Horizontal
2	6984.69	47.89	21.27	54.00	6.11	123	41	Horizontal
3	10460.0	40.88	-3.09	54.00	13.12	125	39	Horizontal
4	10460.0	52.82	-3.09	74.00	21.18	161	291	Horizontal
5	15690.0	54.48	0.58	74.00	19.52	140	342	Horizontal
6	15690.0	43.53	0.58	54.00	10.47	174	89	Horizontal
7	16403.8	44.59	-1.12	54.00	9.41	215	240	Horizontal

Final Data List



4.9.2.48 802.11AC40_Channel 46

Test Graph



Suspected List

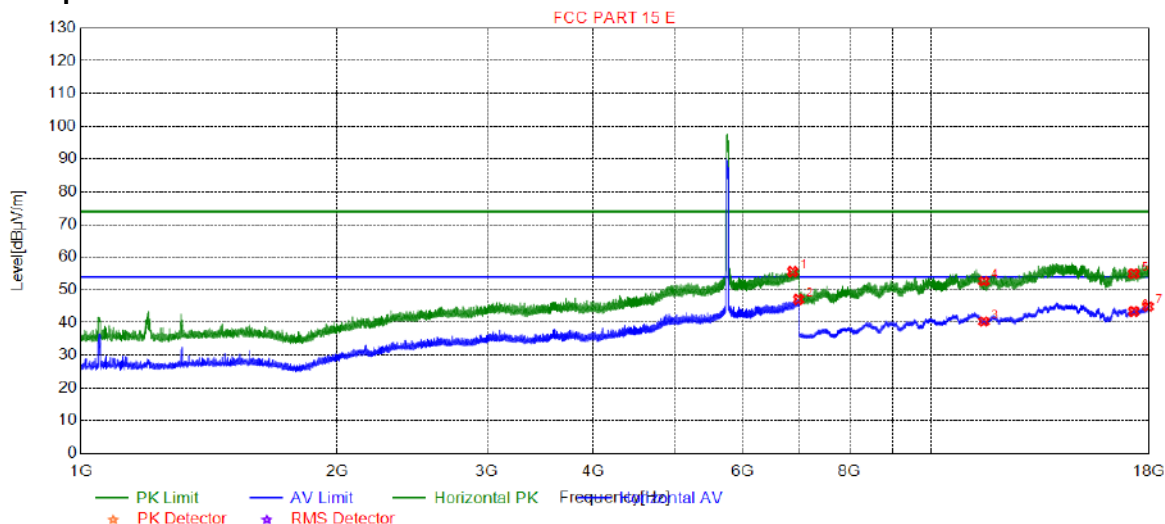
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6929.19	57.34	21.07	74.00	16.66	206	320	Vertical
2	6938.49	47.98	21.15	54.00	6.02	289	169	Vertical
3	10460.0	40.92	-3.09	54.00	13.08	192	18	Vertical
4	10460.0	53.33	-3.09	74.00	20.67	222	270	Vertical
5	15690.0	54.77	0.58	74.00	19.23	217	219	Vertical
6	15690.0	43.48	0.58	54.00	10.52	173	169	Vertical
7	16391.1	44.57	-1.13	54.00	9.43	210	320	Vertical

Final Data List



4.9.2.49 802.11AC40_Channel 151

Test Graph



Suspected List

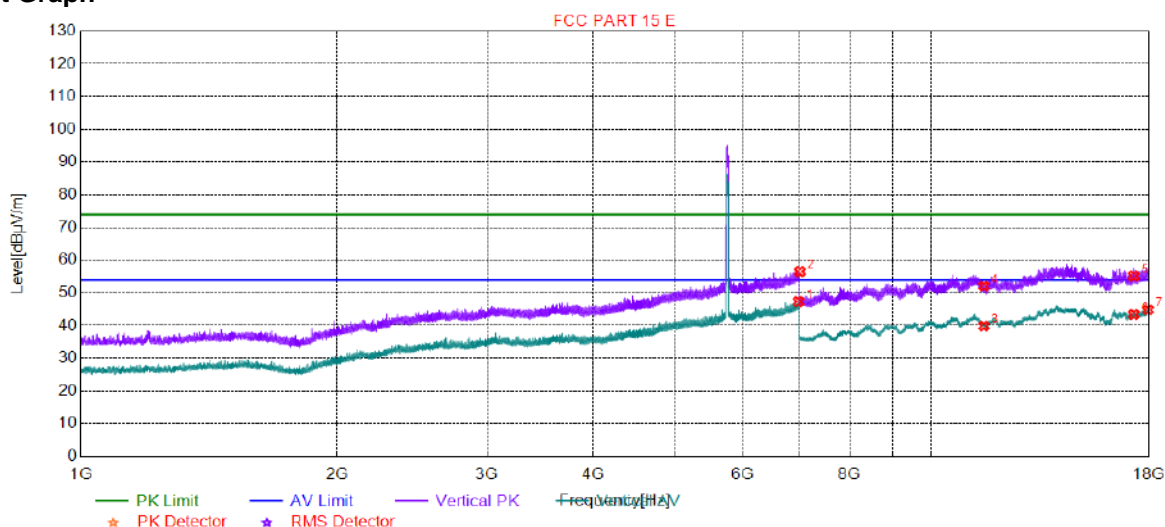
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6860.79	55.61	20.87	74.00	18.39	230	292	Horizontal
2	6967.89	47.14	21.26	54.00	6.86	141	292	Horizontal
3	11510.0	40.33	-2.07	54.00	13.67	112	93	Horizontal
4	11510.0	52.70	-2.07	74.00	21.30	225	242	Horizontal
5	17265.0	54.99	-2.46	74.00	19.01	122	143	Horizontal
6	17265.0	43.42	-2.46	54.00	10.58	147	242	Horizontal
7	17952.1	44.96	-1.29	54.00	9.04	198	242	Horizontal

Final Data List



4.9.2.50 802.11AC40_Channel 151

Test Graph



Suspected List

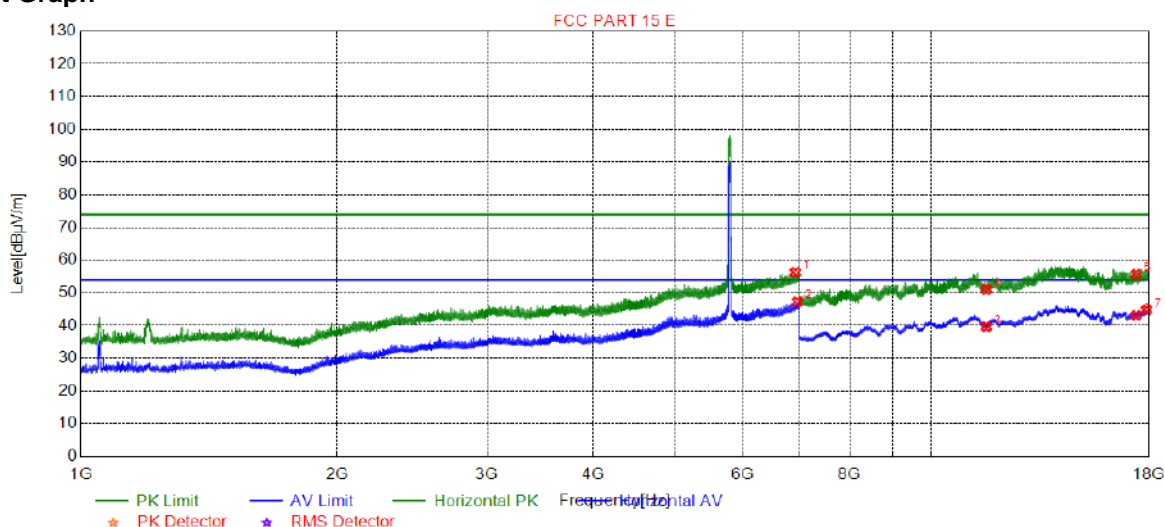
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6966.99	47.36	21.26	54.00	6.64	297	269	Vertical
2	6996.09	56.52	21.27	74.00	17.48	244	68	Vertical
3	11510.0	39.87	-2.07	54.00	14.13	193	318	Vertical
4	11510.0	52.09	-2.07	74.00	21.91	271	68	Vertical
5	17265.0	55.19	-2.46	74.00	18.81	253	168	Vertical
6	17265.0	43.45	-2.46	54.00	10.55	217	118	Vertical
7	17952.1	44.89	-1.29	54.00	9.11	260	18	Vertical

Final Data List



4.9.2.51 802.11AC40_Channel 159

Test Graph



Suspected List

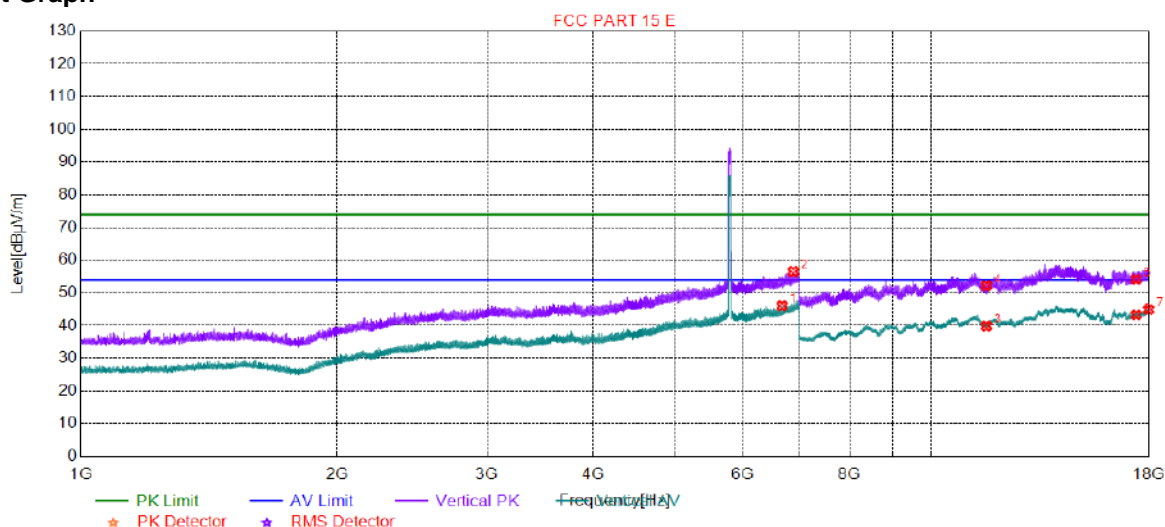
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6913.59	56.28	20.93	74.00	17.72	197	142	Horizontal
2	6946.89	47.28	21.23	54.00	6.72	130	142	Horizontal
3	11590.0	39.65	-2.50	54.00	14.35	201	42	Horizontal
4	11590.0	51.10	-2.50	74.00	22.90	171	142	Horizontal
5	17385.0	55.70	-1.79	74.00	18.30	168	142	Horizontal
6	17385.0	43.16	-1.79	54.00	10.84	189	241	Horizontal
7	17882.2	44.86	-1.54	54.00	9.14	170	42	Horizontal

Final Data List



4.9.2.52 802.11AC40_Channel 159

Test Graph



Suspected List

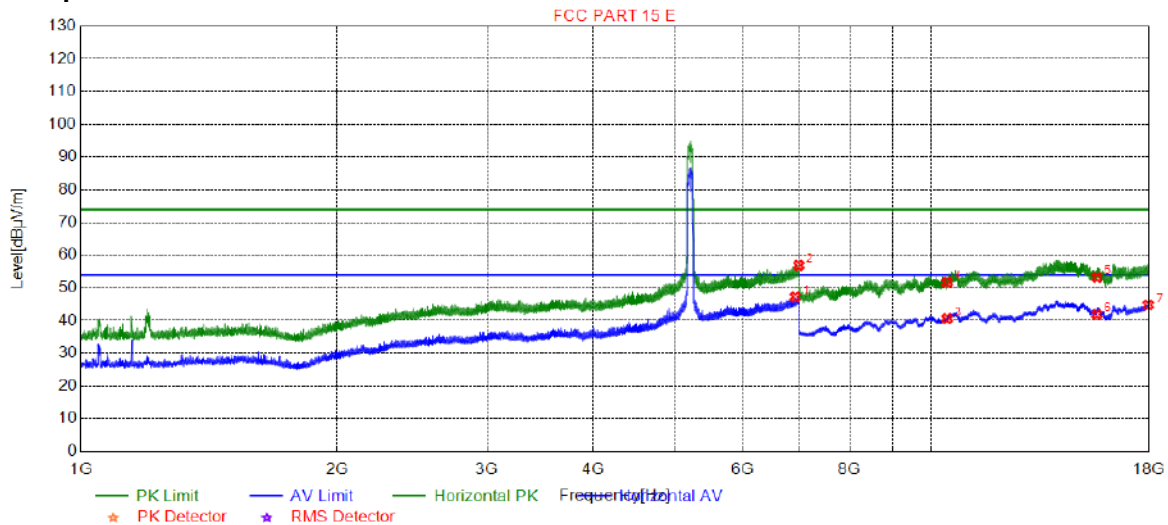
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6666.08	46.08	19.79	54.00	7.92	156	170	Vertical
2	6874.89	56.55	20.85	74.00	17.45	211	360	Vertical
3	11590.0	39.85	-2.50	54.00	14.15	244	319	Vertical
4	11590.0	52.25	-2.50	74.00	21.75	153	319	Vertical
5	17385.0	54.21	-1.79	74.00	19.79	210	168	Vertical
6	17385.0	43.32	-1.79	54.00	10.68	237	319	Vertical
7	17972.4	44.93	-1.29	54.00	9.07	209	68	Vertical

Final Data List



4.9.2.53 802.11AC80_Channel 42

Test Graph



Suspected List

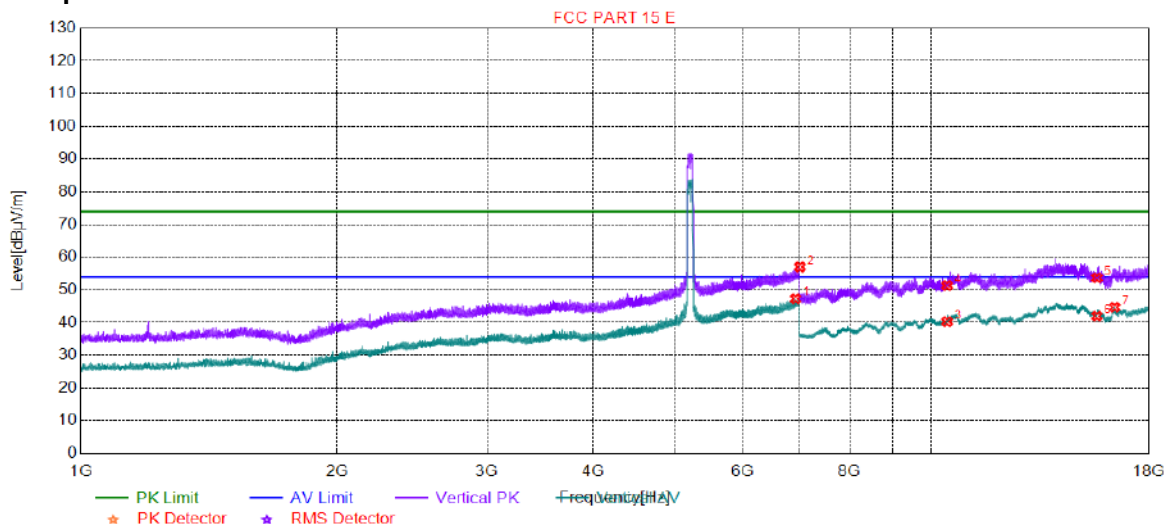
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.89	47.26	20.91	54.00	6.74	109	42	Horizontal
2	6974.19	56.89	21.26	74.00	17.11	192	142	Horizontal
3	10420.0	40.63	-3.40	54.00	13.37	175	191	Horizontal
4	10420.0	51.73	-3.40	74.00	22.27	244	90	Horizontal
5	15630.0	53.22	0.28	74.00	20.78	196	90	Horizontal
6	15630.0	41.94	0.28	54.00	12.06	176	0	Horizontal
7	17956.5	44.86	-1.29	54.00	9.14	212	90	Horizontal

Final Data List



4.9.2.54 802.11AC80_Channel 42

Test Graph



Suspected List

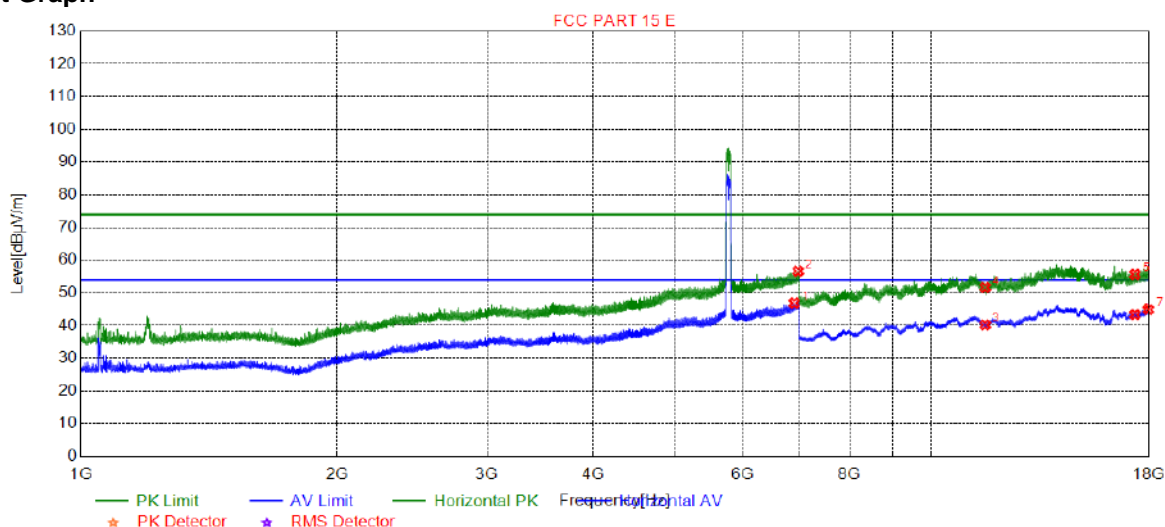
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916.89	47.29	20.96	54.00	6.71	292	18	Vertical
2	6996.69	57.02	21.27	74.00	16.98	279	220	Vertical
3	10420.0	40.30	-3.40	54.00	13.70	235	360	Vertical
4	10420.0	51.36	-3.40	74.00	22.64	275	18	Vertical
5	15630.0	53.73	0.28	74.00	20.27	203	218	Vertical
6	15630.0	42.01	0.28	54.00	11.99	293	118	Vertical
7	16398.3	44.74	-1.12	54.00	9.26	221	168	Vertical

Final Data List



4.9.2.55 802.11AC80_Channel 155

Test Graph



Suspected List

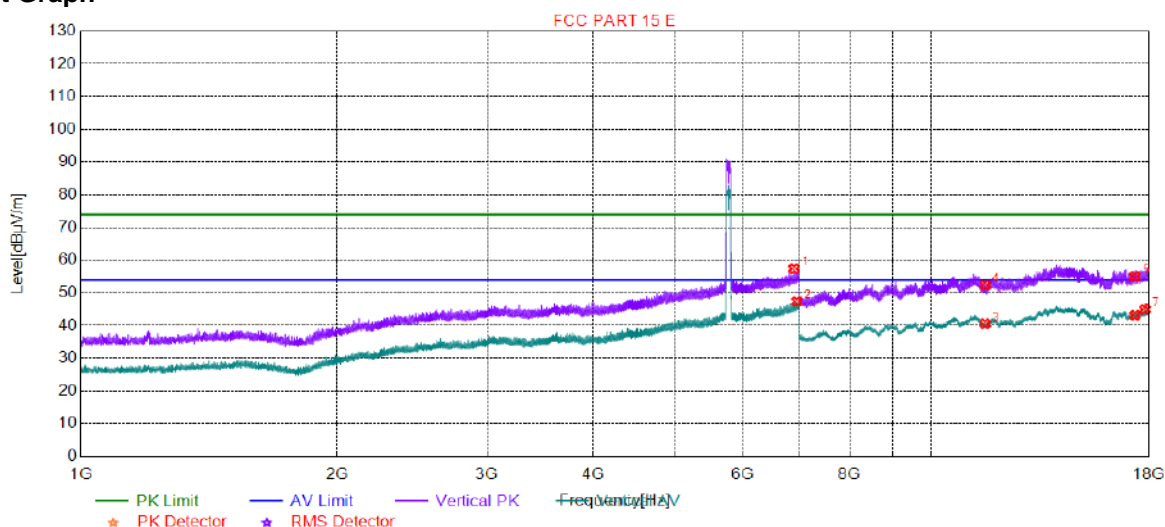
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6892.29	46.89	20.82	54.00	7.11	234	90	Horizontal
2	6962.19	56.62	21.26	74.00	17.38	194	242	Horizontal
3	11550.0	40.21	-2.29	54.00	13.79	242	0	Horizontal
4	11550.0	51.68	-2.29	74.00	22.32	142	141	Horizontal
5	17325.0	55.69	-2.09	74.00	18.31	123	292	Horizontal
6	17325.0	43.39	-2.09	54.00	10.61	172	342	Horizontal
7	17959.8	44.93	-1.29	54.00	9.07	222	141	Horizontal

Final Data List



4.9.2.56 802.11AC80_Channel 155

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6888.09	57.39	20.83	74.00	16.61	189	118	Vertical
2	6937.59	47.37	21.14	54.00	6.63	297	360	Vertical
3	11550.0	40.57	-2.29	54.00	13.43	161	168	Vertical
4	11550.0	52.42	-2.29	74.00	21.58	241	68	Vertical
5	17325.0	55.04	-2.09	74.00	18.96	150	118	Vertical
6	17325.0	43.17	-2.09	54.00	10.83	259	168	Vertical
7	17798.6	44.99	-2.60	54.00	9.01	164	269	Vertical

Final Data List

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

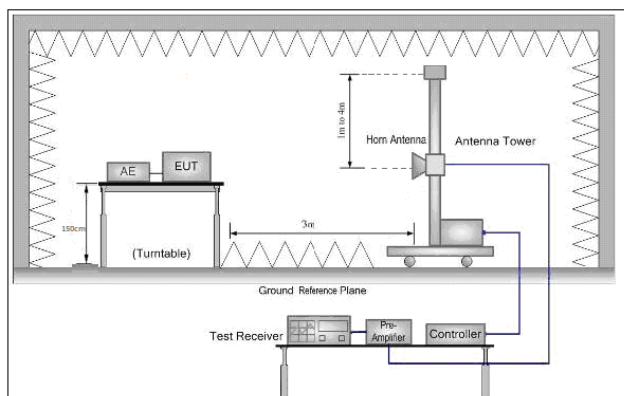
3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4) All modes have been tested, but only the worst case data displayed in this report.



4.10 Restricted bands around fundamental frequency

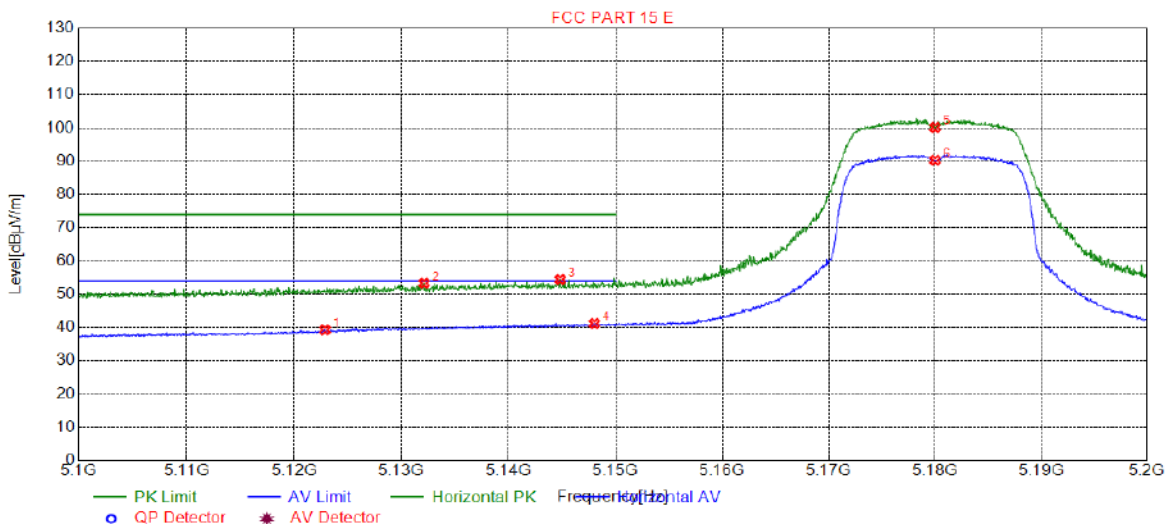
Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			



Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20);</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT160)</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



4.10.1 Test plots
4.10.1.1 802.11A_Channel 36



Suspected List

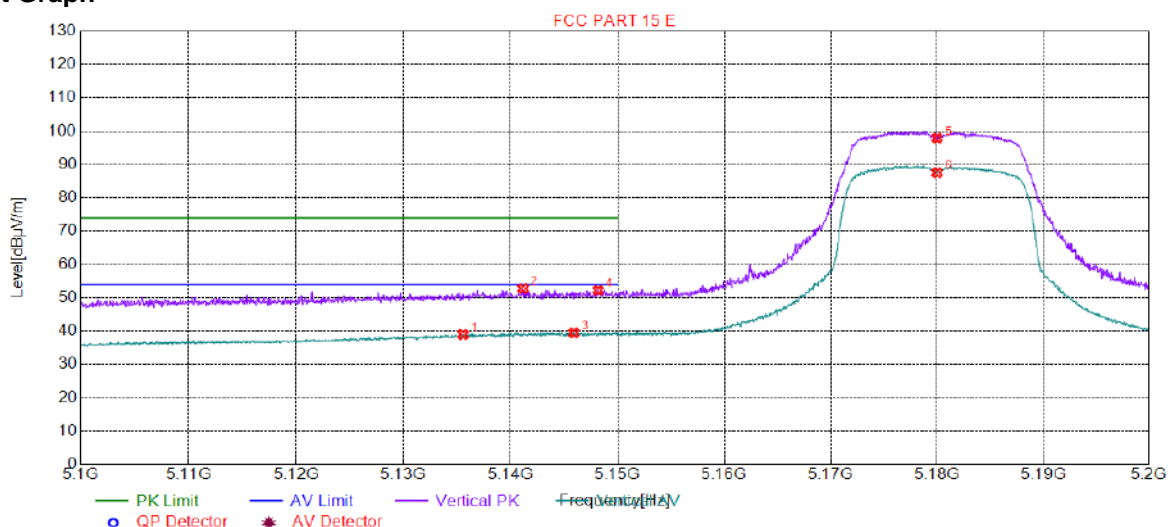
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.86	39.31	15.29	54.00	14.69	165	330	Horizontal
2	5132.11	53.34	15.37	74.00	20.66	133	319	Horizontal
3	5144.82	54.47	15.48	74.00	19.53	216	330	Horizontal
4	5148.02	41.18	15.50	54.00	12.82	143	330	Horizontal
5	5180.00	100.18	15.56	0.00	-100.18	134	150	Horizontal
6	5180.00	90.32	15.56	0.00	-90.32	216	330	Horizontal

Final Data List



4.10.1.2 802.11A_Channel 36

Test Graph



Suspected List

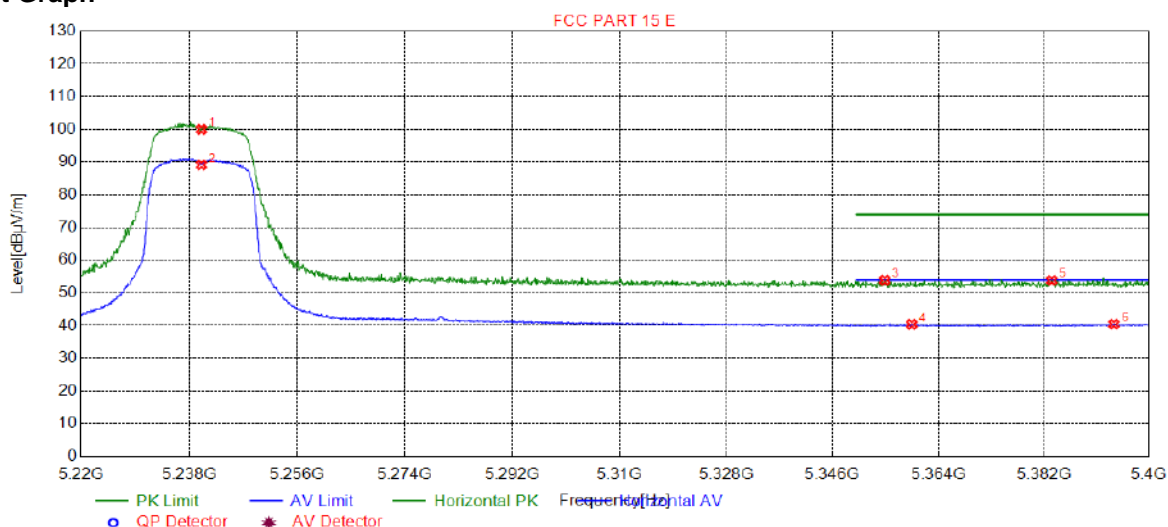
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.56	38.99	15.40	54.00	15.01	173	146	Vertical
2	5141.17	52.79	15.44	74.00	21.21	244	141	Vertical
3	5145.92	39.51	15.48	54.00	14.49	244	146	Vertical
4	5148.17	52.25	15.50	74.00	21.75	189	152	Vertical
5	5180.00	97.93	15.56	0.00	-97.93	171	146	Vertical
6	5180.00	87.55	15.56	0.00	-87.55	179	146	Vertical

Final Data List



4.10.1.3 802.11A_Channel 48

Test Graph



Suspected List

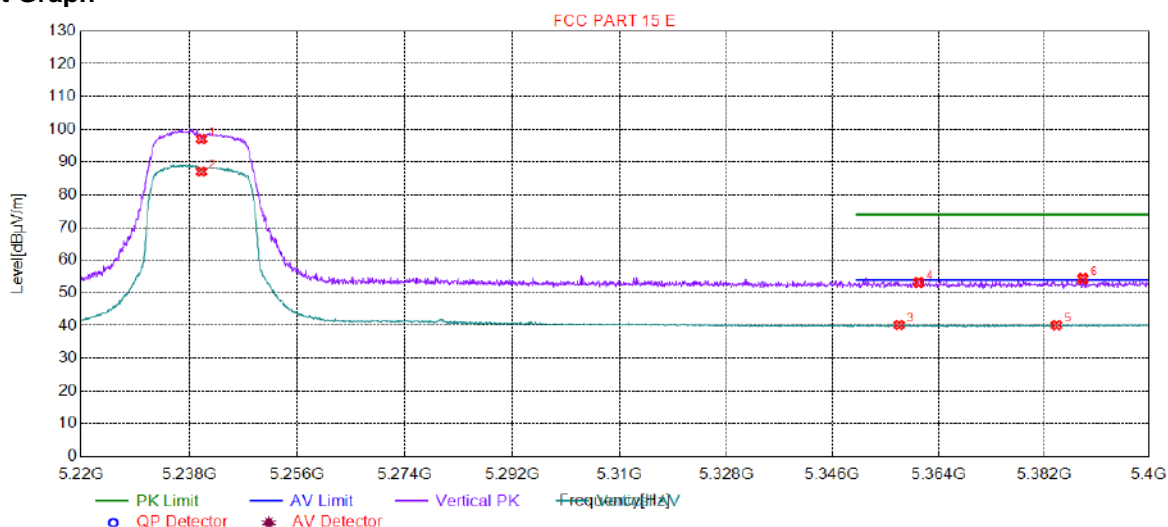
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	100.01	15.49	0.00	-100.01	208	143	Horizontal
2	5240.00	89.18	15.49	0.00	-89.18	160	151	Horizontal
3	5354.88	53.89	15.97	74.00	20.11	231	123	Horizontal
4	5359.47	40.40	16.00	54.00	13.60	206	143	Horizontal
5	5383.34	53.86	16.15	74.00	20.14	136	296	Horizontal
6	5393.96	40.46	16.21	54.00	13.54	173	76	Horizontal

Final Data List



4.10.1.4 802.11A_Channel 48

Test Graph



Suspected List

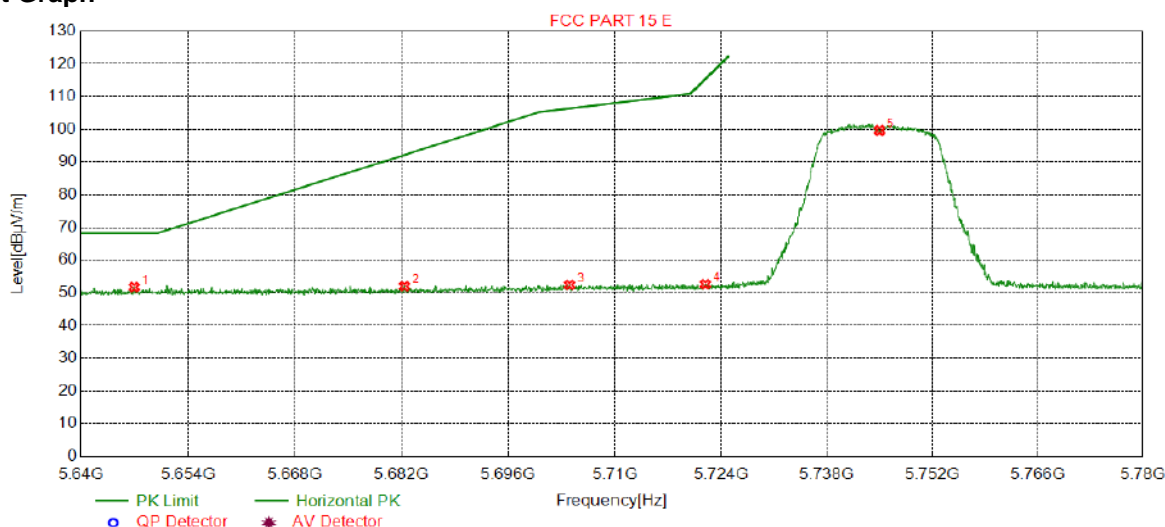
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	97.06	15.49	0.00	-97.06	237	88	Vertical
2	5240.00	87.12	15.49	0.00	-87.12	256	82	Vertical
3	5357.31	40.19	15.99	54.00	13.81	180	88	Vertical
4	5360.65	53.22	16.01	74.00	20.78	290	102	Vertical
5	5384.15	40.13	16.15	54.00	13.87	180	301	Vertical
6	5388.65	54.41	16.18	74.00	19.59	269	82	Vertical

Final Data List



4.10.1.5 802.11A_Channel 149

Test Graph



Suspected List

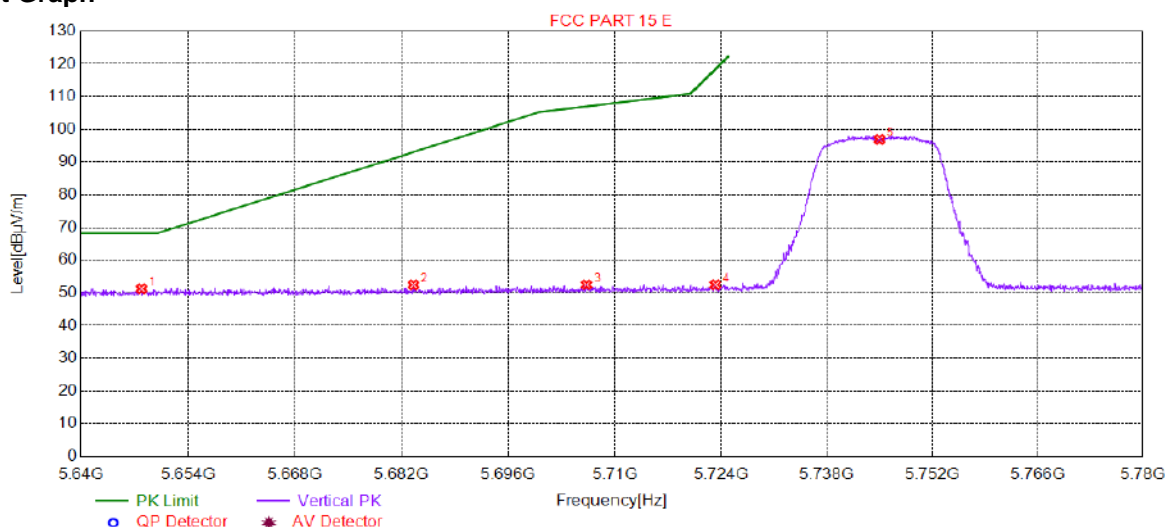
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.93	51.78	16.53	68.30	16.52	179	84	Horizontal
2	5682.30	52.07	16.70	92.20	40.13	226	89	Horizontal
3	5704.01	52.48	16.83	106.42	53.94	220	98	Horizontal
4	5721.94	52.69	16.94	115.33	62.64	154	108	Horizontal
5	5745.00	99.70	17.09	0.00	-99.70	195	280	Horizontal

Final Data List



4.10.1.6 802.11A_Channel 149

Test Graph



Suspected List

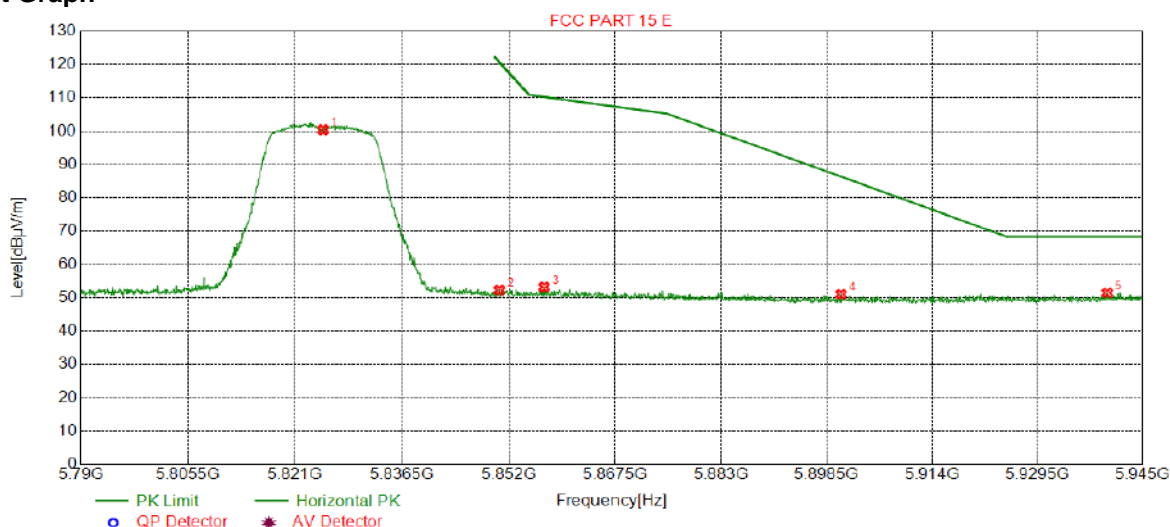
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.91	51.28	16.53	68.30	17.02	224	341	Vertical
2	5683.49	52.48	16.71	93.08	40.60	165	135	Vertical
3	5706.25	52.53	16.84	107.05	54.52	297	157	Vertical
4	5723.27	52.52	16.95	118.36	65.84	193	125	Vertical
5	5745.00	96.94	17.09	0.00	-96.94	217	125	Vertical

Final Data List



4.10.1.7 802.11A_Channel 165

Test Graph



Suspected List

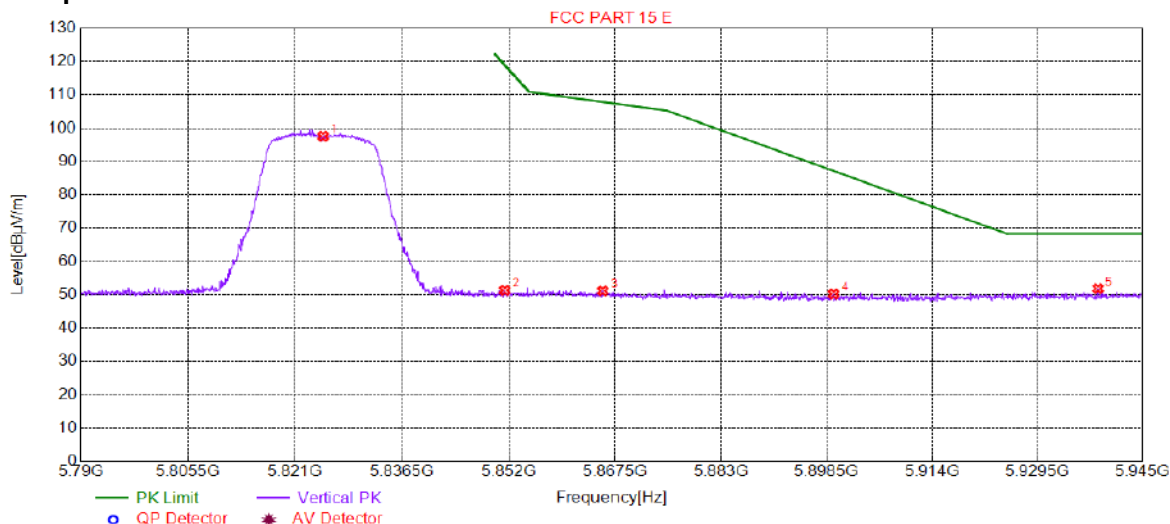
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	100.43	17.23	0.00	-100.43	210	105	Horizontal
2	5850.63	52.32	17.26	120.85	68.53	134	165	Horizontal
3	5857.14	53.25	17.24	110.30	57.05	105	101	Horizontal
4	5900.57	51.07	17.12	86.38	35.31	243	330	Horizontal
5	5939.80	51.50	17.72	68.30	16.80	217	229	Horizontal

Final Data List



4.10.1.8 802.11A_Channel 165

Test Graph



Suspected List

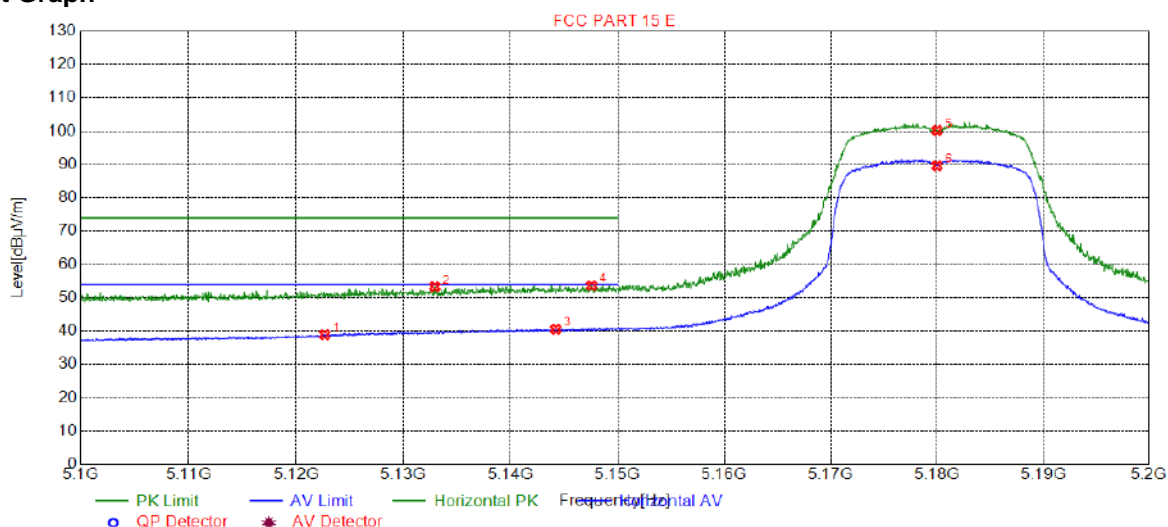
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	97.59	17.23	0.00	-97.59	203	288	Vertical
2	5851.41	51.35	17.26	119.08	67.73	155	80	Vertical
3	5865.67	51.18	17.21	107.91	56.73	280	108	Vertical
4	5899.48	50.25	17.11	87.18	36.93	260	94	Vertical
5	5938.40	51.88	17.70	68.30	16.42	297	278	Vertical

Final Data List



4.10.1.9 802.11N20_Channel 36

Test Graph



Suspected List

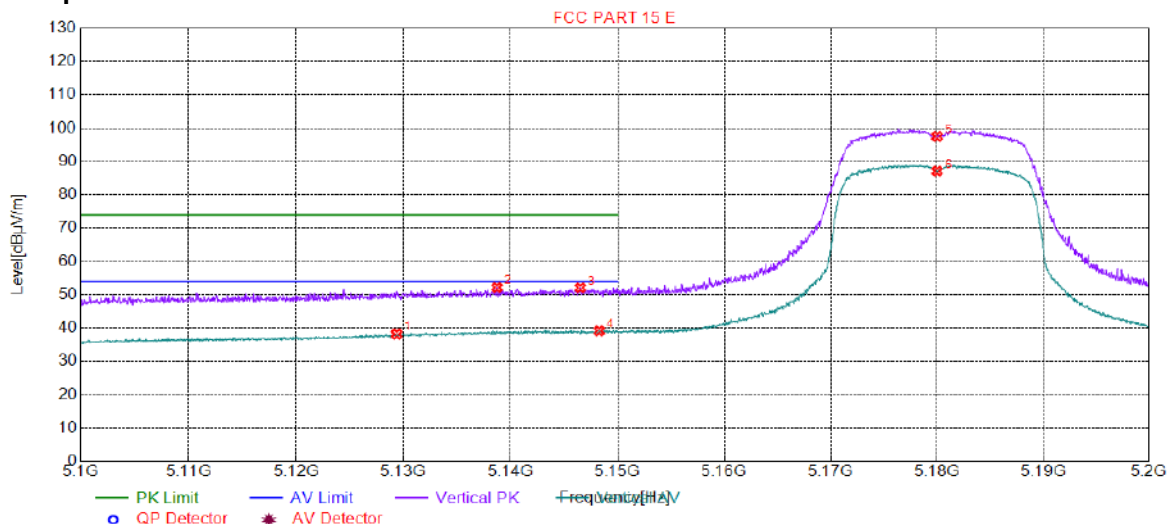
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.66	38.93	15.28	54.00	15.07	221	143	Horizontal
2	5132.91	53.34	15.37	74.00	20.66	155	137	Horizontal
3	5144.22	40.55	15.47	54.00	13.45	209	331	Horizontal
4	5147.57	53.68	15.50	74.00	20.32	141	320	Horizontal
5	5180.00	100.26	15.56	0.00	-100.26	150	148	Horizontal
6	5180.00	89.65	15.56	0.00	-89.65	157	331	Horizontal

Final Data List



4.10.1.10 802.11N20_Channel 36

Test Graph



Suspected List

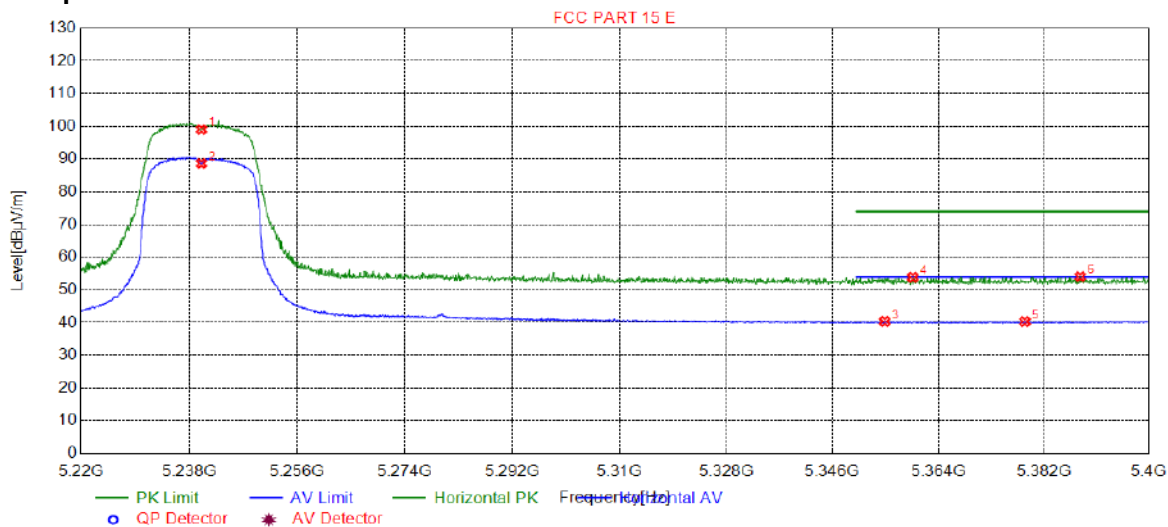
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.36	38.23	15.34	54.00	15.77	281	146	Vertical
2	5138.71	52.21	15.42	74.00	21.79	157	146	Vertical
3	5146.52	52.12	15.49	74.00	21.88	261	146	Vertical
4	5148.27	39.19	15.51	54.00	14.81	265	152	Vertical
5	5180.00	97.55	15.56	0.00	-97.55	248	85	Vertical
6	5180.00	87.12	15.56	0.00	-87.12	182	146	Vertical

Final Data List



4.10.1.11 802.11N20_Channel 48

Test Graph



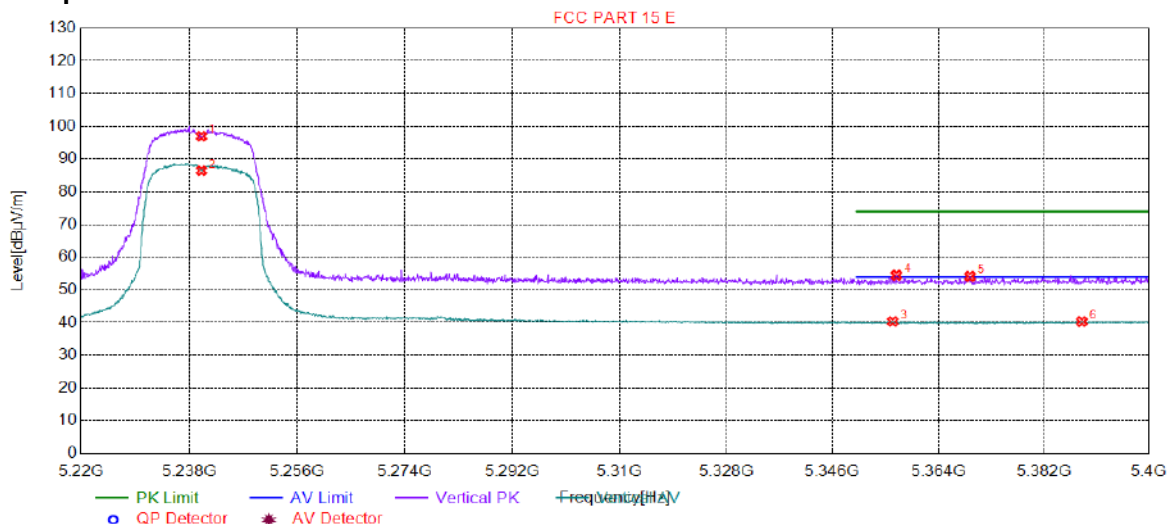
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	99.08	15.49	0.00	-99.08	116	146	Horizontal
2	5240.00	88.69	15.49	0.00	-88.69	105	332	Horizontal
3	5354.88	40.37	15.97	54.00	13.63	229	85	Horizontal
4	5359.65	53.89	16.00	74.00	20.11	132	229	Horizontal
5	5378.74	40.32	16.12	54.00	13.68	248	65	Horizontal
6	5388.20	54.11	16.18	74.00	19.89	231	133	Horizontal

Final Data List

4.10.1.12 802.11N20_Channel 48

Test Graph



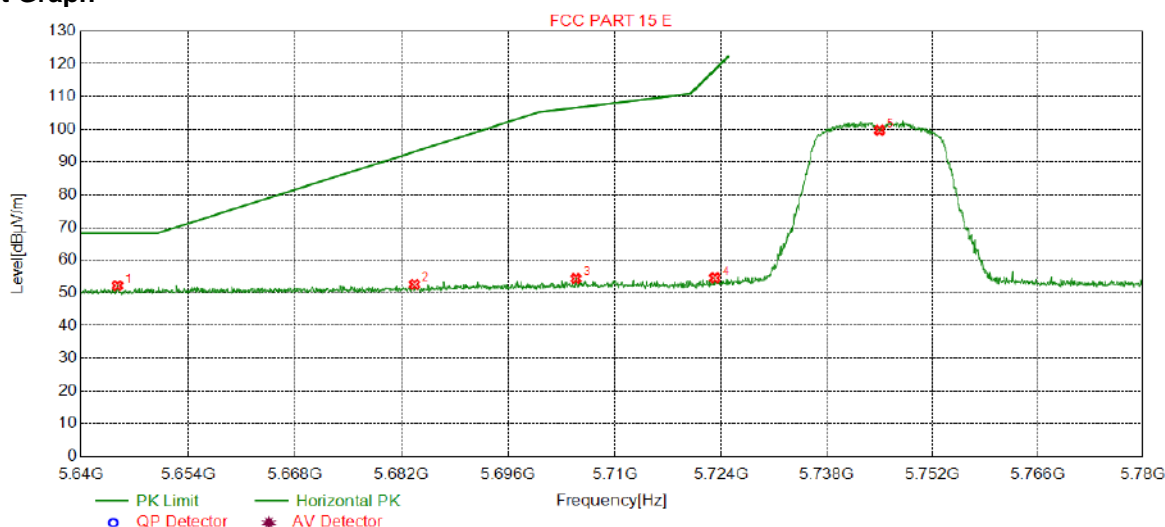
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	96.99	15.49	0.00	-96.99	215	84	Vertical
2	5240.00	86.48	15.49	0.00	-86.48	201	139	Vertical
3	5356.23	40.36	15.98	54.00	13.64	271	291	Vertical
4	5356.86	54.50	15.98	74.00	19.50	183	215	Vertical
5	5369.38	54.17	16.06	74.00	19.83	196	174	Vertical
6	5388.47	40.33	16.18	54.00	13.67	201	78	Vertical

Final Data List



4.10.1.13 802.11N20_Channel 149

Test Graph



Suspected List

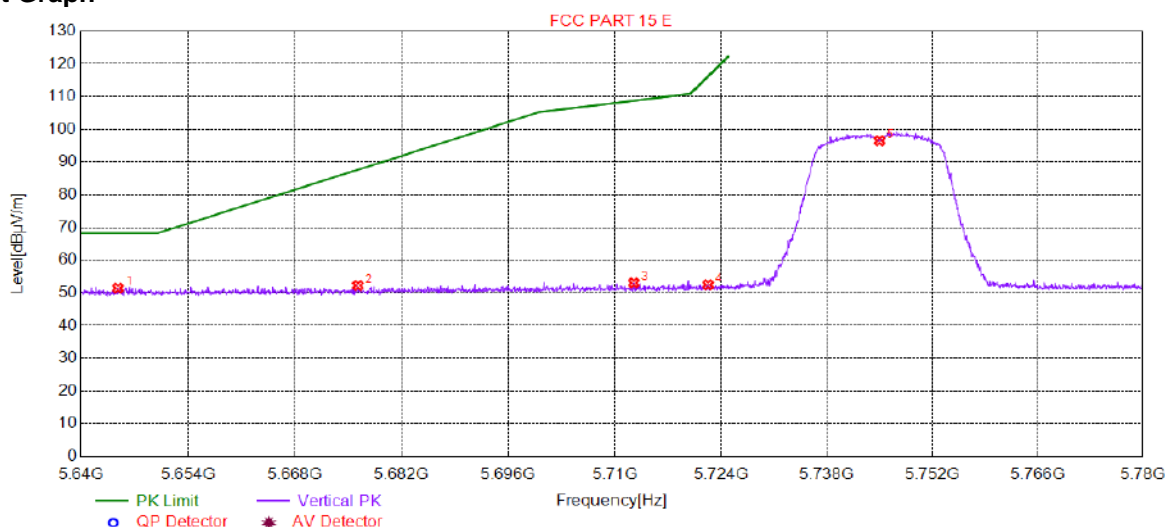
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.76	52.27	16.54	68.30	16.03	139	344	Horizontal
2	5683.63	52.63	16.71	93.19	40.56	157	308	Horizontal
3	5704.85	54.44	16.83	106.66	52.22	209	280	Horizontal
4	5723.20	54.63	16.95	118.20	63.57	122	146	Horizontal
5	5745.00	99.75	17.09	0.00	-99.75	163	280	Horizontal

Final Data List



4.10.1.14 802.11N20_Channel 149

Test Graph



Suspected List

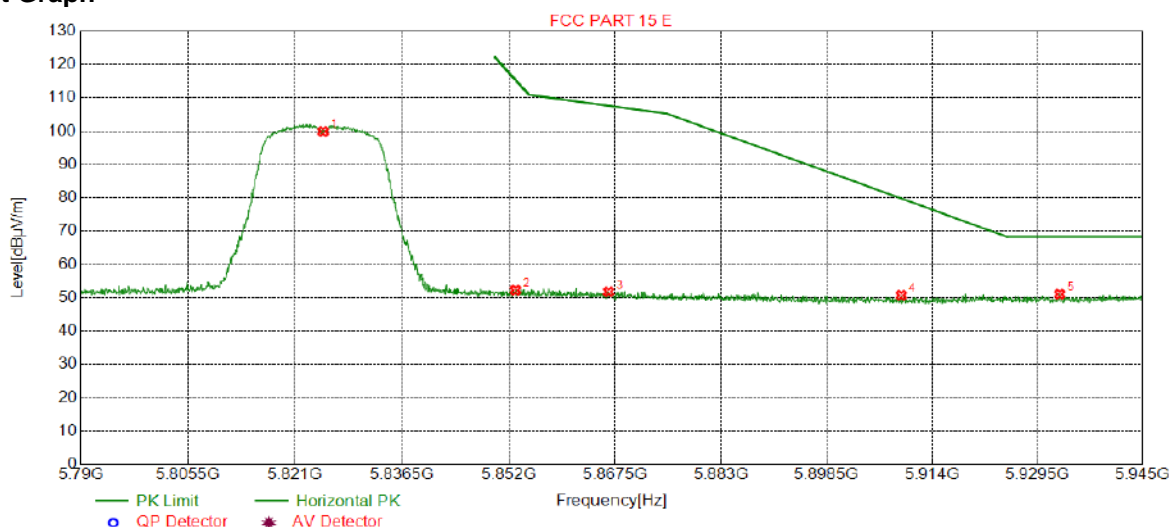
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.83	51.48	16.54	68.30	16.82	236	29	Vertical
2	5676.20	52.31	16.67	87.69	35.38	166	278	Vertical
3	5712.48	53.10	16.88	108.80	55.70	276	288	Vertical
4	5722.29	52.51	16.94	116.12	63.61	199	302	Vertical
5	5745.00	96.54	17.09	0.00	-96.54	196	141	Vertical

Final Data List



4.10.1.15 802.11N20_Channel 165

Test Graph



Suspected List

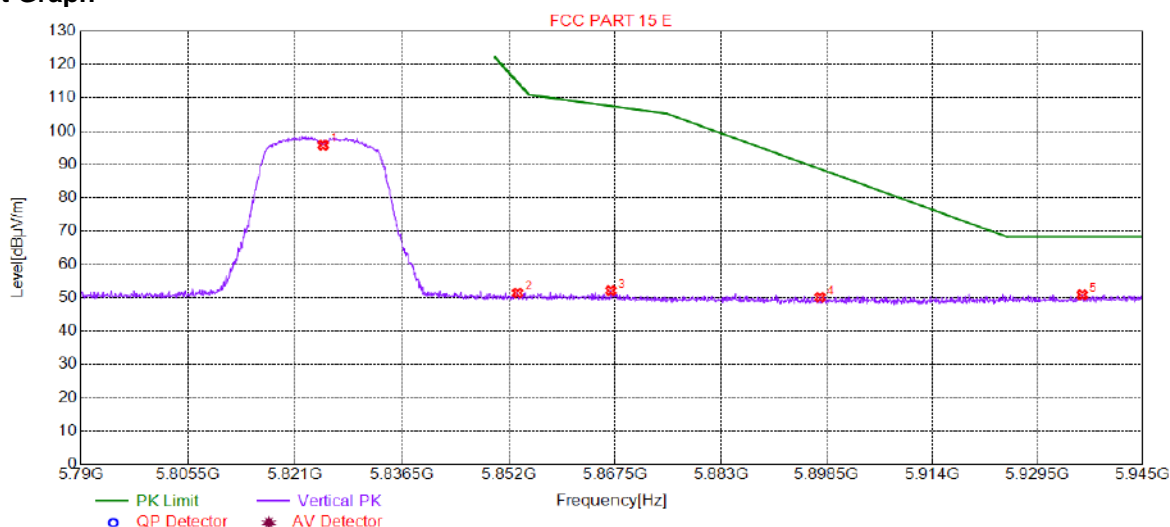
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	99.93	17.23	0.00	-99.93	149	98	Horizontal
2	5852.96	52.30	17.25	115.55	63.25	230	112	Horizontal
3	5866.53	51.83	17.21	107.67	55.84	209	298	Horizontal
4	5909.40	50.73	17.25	79.84	29.11	230	298	Horizontal
5	5932.74	51.10	17.61	68.30	17.20	142	163	Horizontal

Final Data List



4.10.1.16 802.11N20_Channel 165

Test Graph



Suspected List

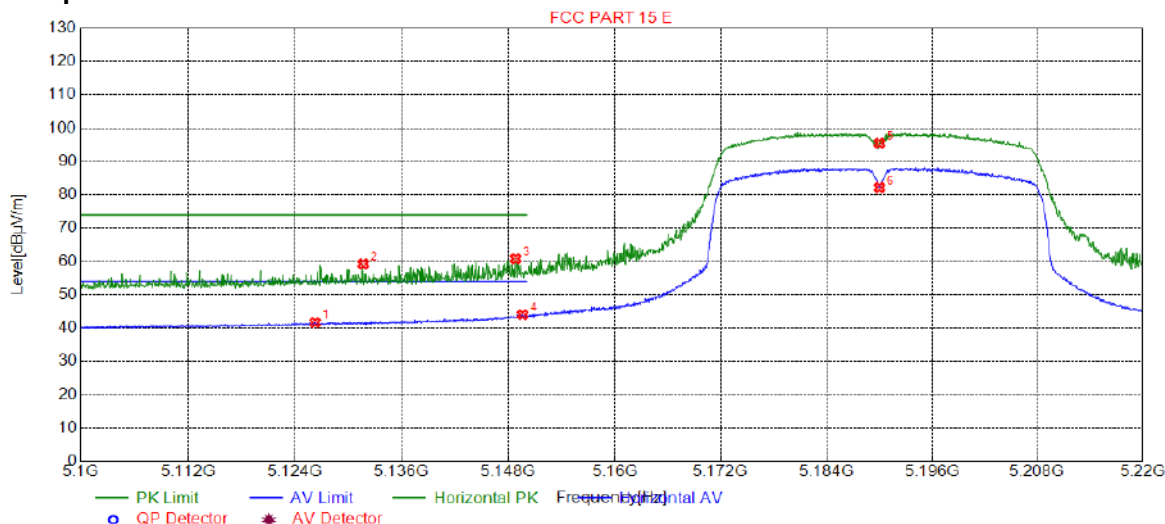
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	95.81	17.23	0.00	-95.81	271	160	Vertical
2	5853.27	51.45	17.25	114.84	63.39	201	146	Vertical
3	5866.84	52.17	17.21	107.58	55.41	222	136	Vertical
4	5897.46	50.14	17.12	88.67	38.53	233	136	Vertical
5	5936.08	50.89	17.67	68.30	17.41	259	122	Vertical

Final Data List



4.10.1.17 802.11N40_Channel 38

Test Graph



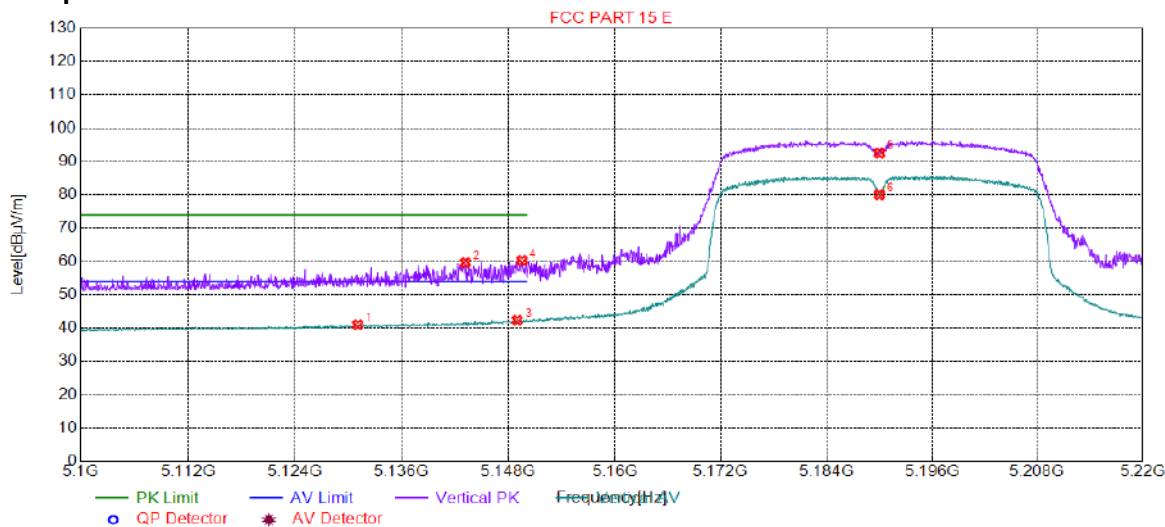
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.23	41.68	15.32	54.00	12.32	137	335	Horizontal
2	5131.63	59.25	15.36	74.00	14.75	144	67	Horizontal
3	5148.80	60.85	15.51	74.00	13.15	136	67	Horizontal
4	5149.58	44.05	15.52	54.00	9.95	181	335	Horizontal
5	5190.00	95.49	15.58	0.00	-95.49	149	330	Horizontal
6	5190.00	82.23	15.58	0.00	-82.23	167	150	Horizontal

Final Data List

4.10.1.18 802.11N40_Channel 38

Test Graph



Suspected List

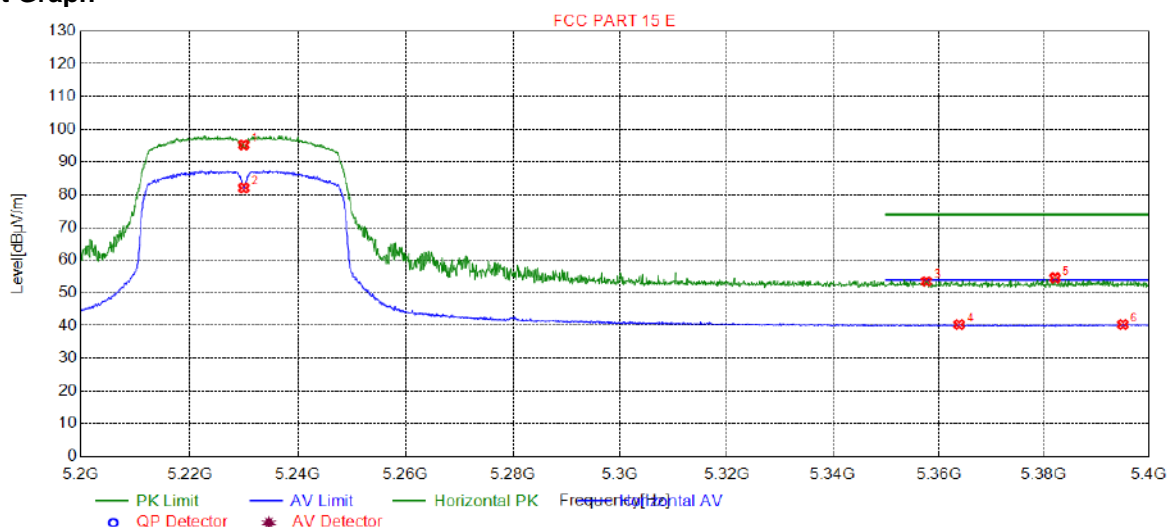
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5131.03	40.98	15.36	54.00	13.02	209	151	Vertical
2	5143.16	59.64	15.46	74.00	14.36	150	134	Vertical
3	5148.98	42.36	15.51	54.00	11.64	283	151	Vertical
4	5149.52	60.29	15.52	74.00	13.71	277	146	Vertical
5	5190.00	92.53	15.58	0.00	-92.53	288	134	Vertical
6	5190.00	80.07	15.58	0.00	-80.07	251	151	Vertical

Final Data List



4.10.1.19 802.11N40_Channel 46

Test Graph



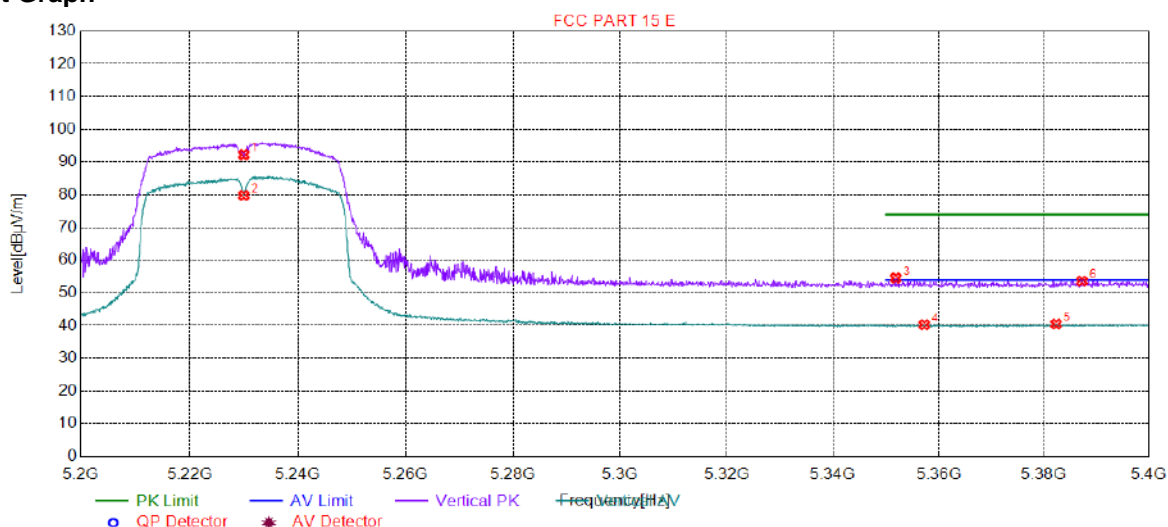
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	95.25	15.51	0.00	-95.25	145	324	Horizontal
2	5230.00	82.11	15.51	0.00	-82.11	168	145	Horizontal
3	5357.67	53.55	15.99	74.00	20.45	249	125	Horizontal
4	5363.88	40.32	16.03	54.00	13.68	129	256	Horizontal
5	5382.09	54.61	16.14	74.00	19.39	129	145	Horizontal
6	5394.99	40.34	16.22	54.00	13.66	152	56	Horizontal

Final Data List



4.10.1.20 802.11N40_Channel 46

Test Graph



Suspected List

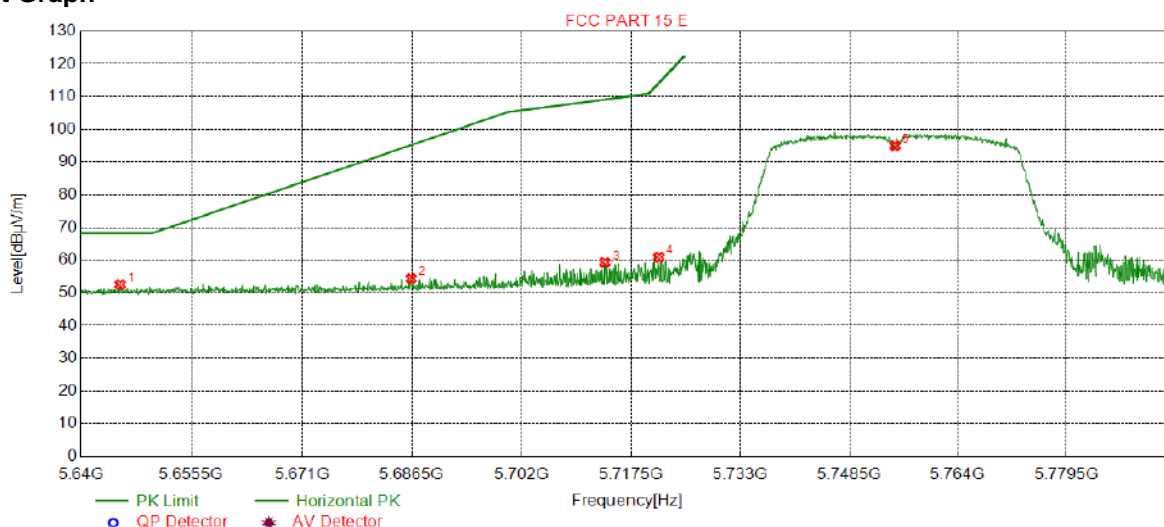
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	92.28	15.51	0.00	-92.28	190	84	Vertical
2	5230.00	79.82	15.51	0.00	-79.82	238	92	Vertical
3	5351.87	54.58	15.95	74.00	19.42	154	92	Vertical
4	5357.27	40.28	15.99	54.00	13.72	230	92	Vertical
5	5382.29	40.49	16.14	54.00	13.51	221	133	Vertical
6	5387.19	53.65	16.17	74.00	20.35	175	126	Vertical

Final Data List



4.10.1.21 802.11N40_Channel 151

Test Graph



Suspected List

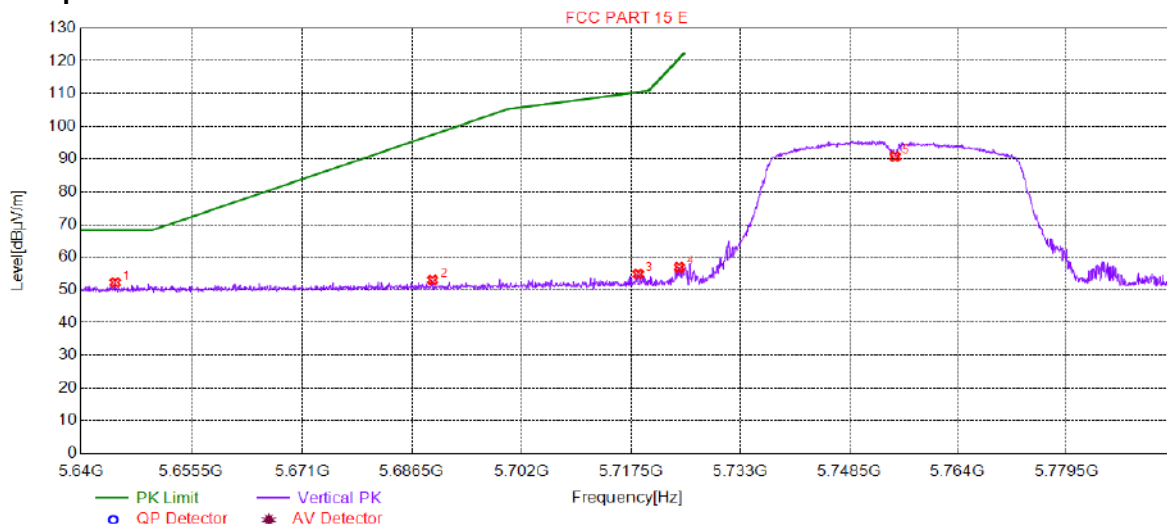
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.50	52.59	16.54	68.30	15.71	110	289	Horizontal
2	5686.36	54.40	16.73	95.21	40.81	142	330	Horizontal
3	5713.73	59.33	16.89	109.15	49.82	184	330	Horizontal
4	5721.41	60.98	16.94	114.13	53.15	143	330	Horizontal
5	5755.00	94.98	17.13	0.00	-94.98	217	108	Horizontal

Final Data List



4.10.1.22 802.11N40_Channel 151

Test Graph



Suspected List

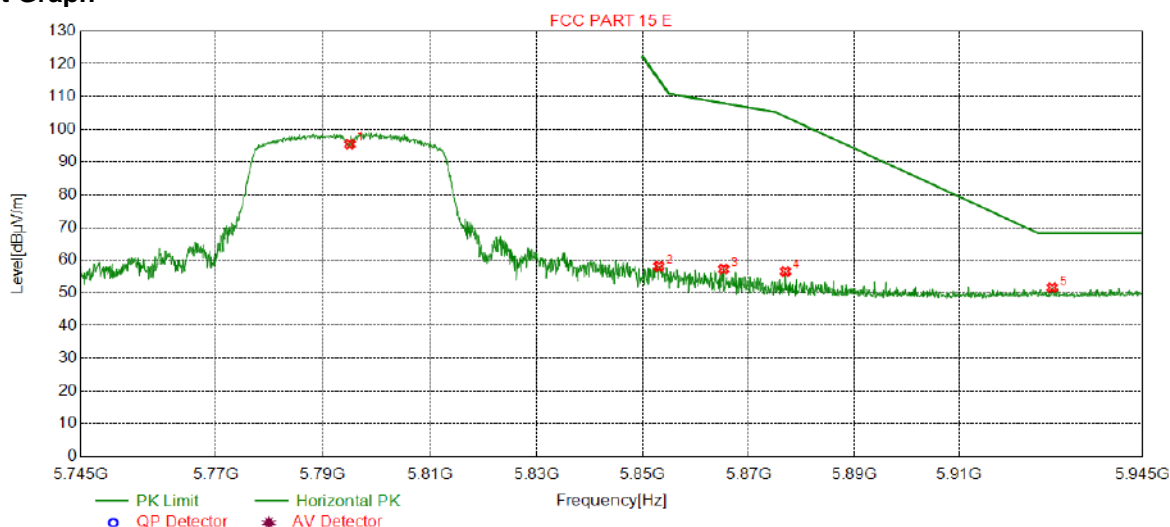
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.80	52.30	16.54	68.30	16.00	175	339	Vertical
2	5689.39	53.06	16.74	97.45	44.39	229	117	Vertical
3	5718.46	54.86	16.92	110.47	55.61	241	293	Vertical
4	5724.28	56.89	16.96	120.67	63.78	243	121	Vertical
5	5755.00	90.82	17.13	0.00	-90.82	164	149	Vertical

Final Data List



4.10.1.23 802.11N40_Channel 159

Test Graph



Suspected List

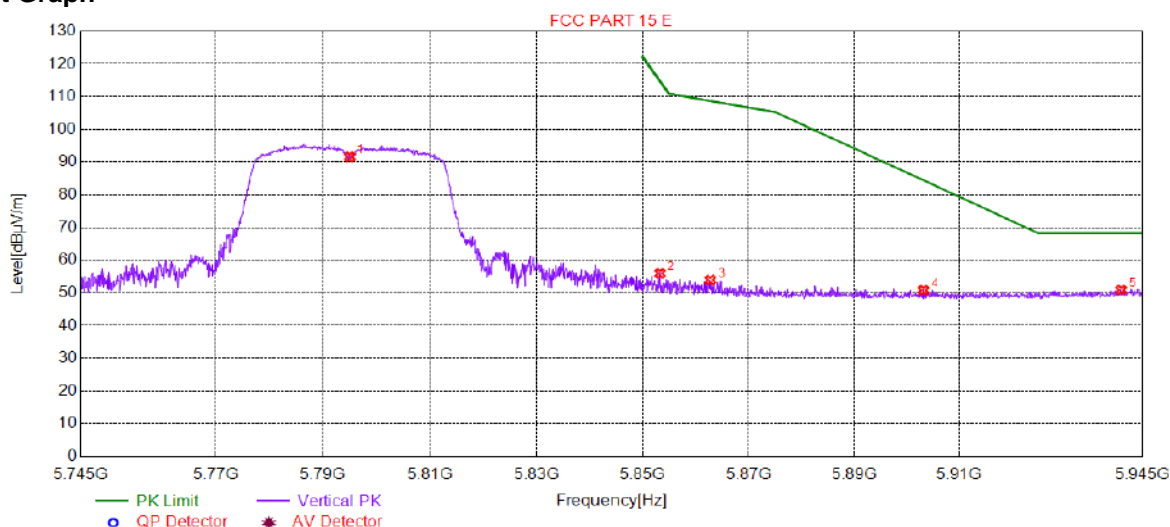
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	95.48	17.18	0.00	-95.48	225	281	Horizontal
2	5853.05	58.14	17.25	115.34	57.20	115	326	Horizontal
3	5865.26	57.27	17.21	108.03	50.76	169	107	Horizontal
4	5876.96	56.57	17.18	103.85	47.28	105	281	Horizontal
5	5927.69	51.64	17.54	68.30	16.66	177	286	Horizontal

Final Data List



4.10.1.24 802.11N40_Channel 159

Test Graph



Suspected List

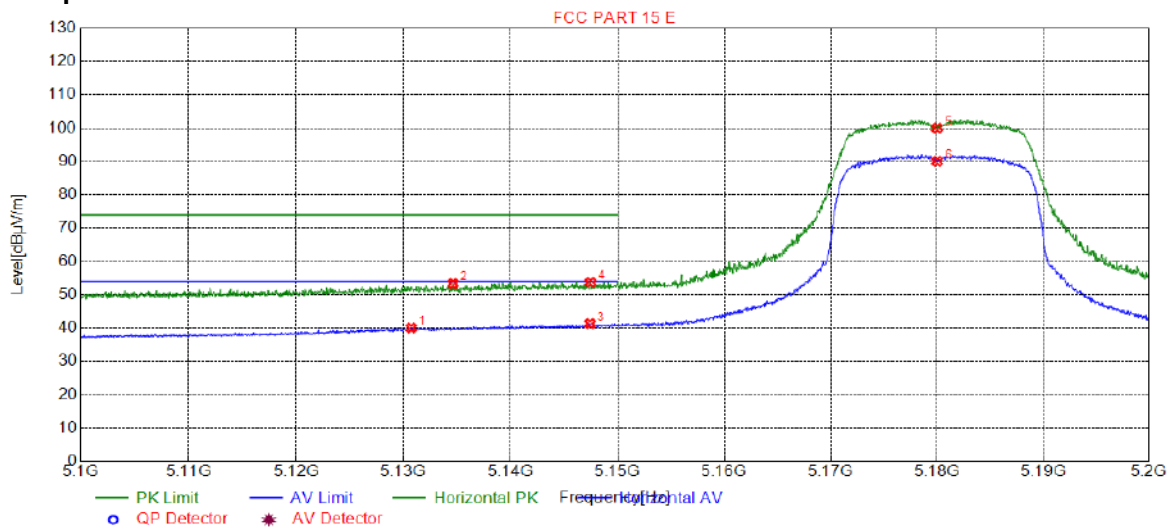
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	91.63	17.18	0.00	-91.63	179	151	Vertical
2	5853.25	55.98	17.25	114.88	58.90	281	165	Vertical
3	5862.75	53.99	17.22	108.73	54.74	222	69	Vertical
4	5903.17	50.84	17.16	84.45	33.61	288	36	Vertical
5	5940.89	50.93	17.74	68.30	17.37	197	64	Vertical

Final Data List



4.10.1.25 802.11AC20_Channel 36

Test Graph



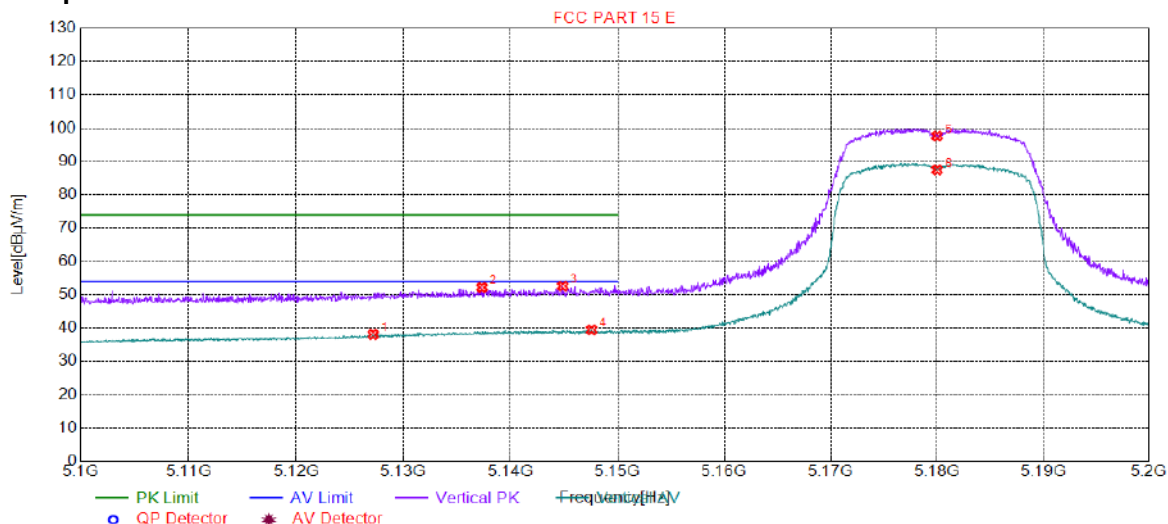
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.71	40.04	15.35	54.00	13.96	108	335	Horizontal
2	5134.61	53.40	15.39	74.00	20.60	206	301	Horizontal
3	5147.42	41.34	15.50	54.00	12.66	225	335	Horizontal
4	5147.47	53.78	15.50	74.00	20.22	174	78	Horizontal
5	5180.00	100.03	15.56	0.00	-100.03	166	144	Horizontal
6	5180.00	90.08	15.56	0.00	-90.08	213	335	Horizontal

Final Data List



4.10.1.26 802.11AC20_Channel 36

Test Graph



Suspected List

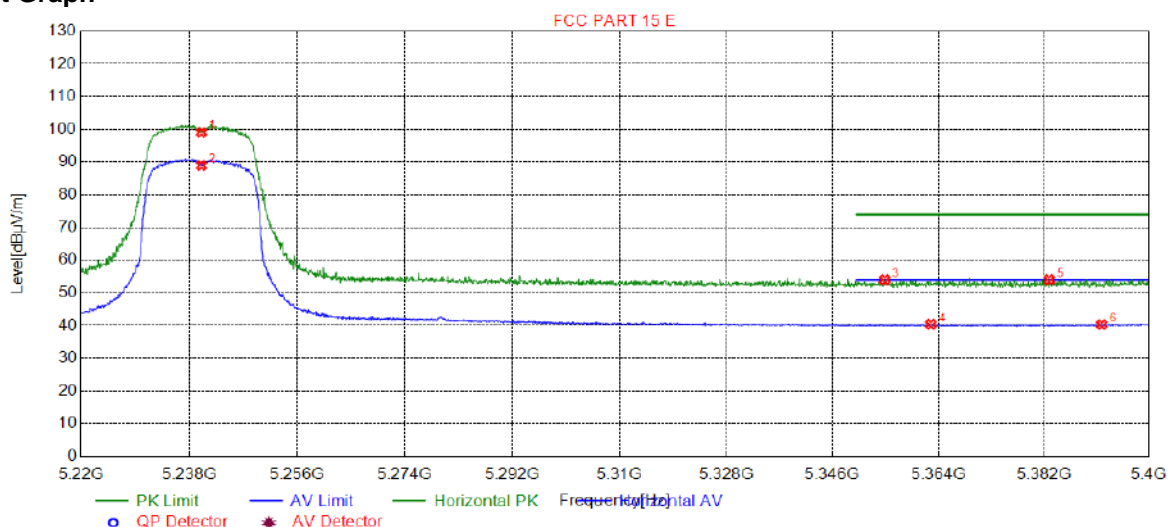
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.16	38.11	15.32	54.00	15.89	223	148	Vertical
2	5137.31	52.22	15.41	74.00	21.78	182	148	Vertical
3	5144.87	52.62	15.48	74.00	21.38	234	148	Vertical
4	5147.57	39.49	15.50	54.00	14.51	252	148	Vertical
5	5180.00	97.67	15.56	0.00	-97.67	171	154	Vertical
6	5180.00	87.50	15.56	0.00	-87.50	206	148	Vertical

Final Data List



4.10.1.27 802.11AC20_Channel 48

Test Graph



Suspected List

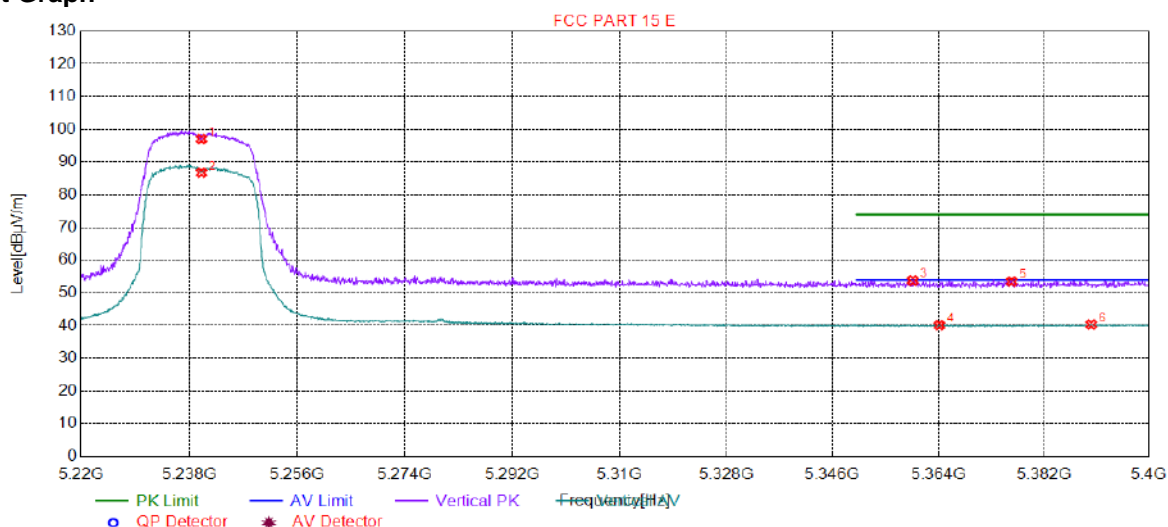
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	99.10	15.49	0.00	-99.10	243	329	Horizontal
2	5240.00	89.00	15.49	0.00	-89.00	219	329	Horizontal
3	5354.88	54.03	15.97	74.00	19.97	190	233	Horizontal
4	5362.72	40.42	16.02	54.00	13.58	121	67	Horizontal
5	5382.89	54.06	16.14	74.00	19.94	181	163	Horizontal
6	5391.89	40.33	16.20	54.00	13.67	167	170	Horizontal

Final Data List



4.10.1.28 802.11AC20_Channel 48

Test Graph



Suspected List

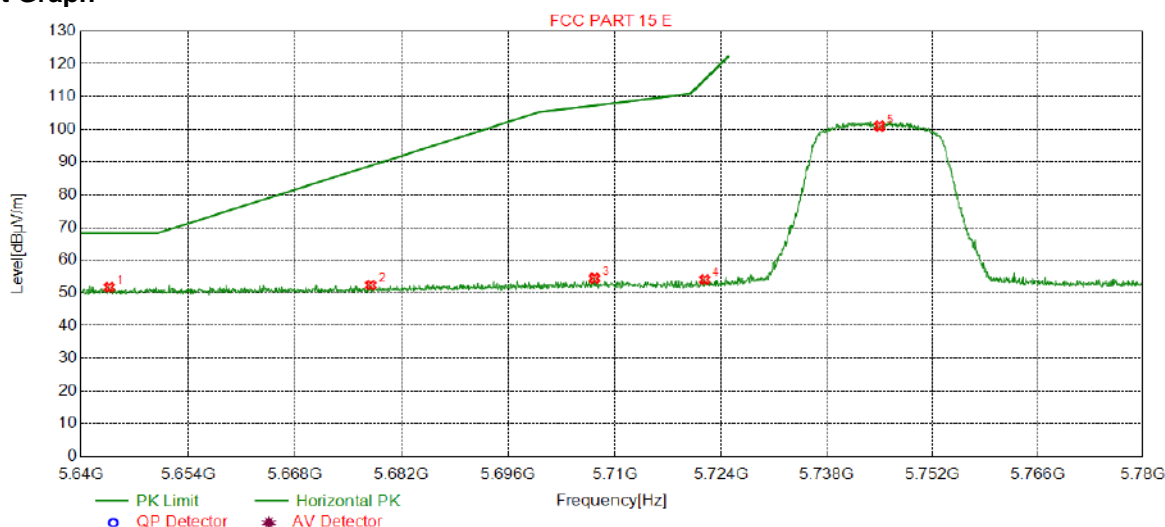
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	97.06	15.49	0.00	-97.06	222	90	Vertical
2	5240.00	86.77	15.49	0.00	-86.77	228	97	Vertical
3	5359.65	53.81	16.00	74.00	20.19	280	159	Vertical
4	5364.16	40.13	16.03	54.00	13.87	234	76	Vertical
5	5376.49	53.52	16.10	74.00	20.48	213	179	Vertical
6	5390.09	40.35	16.19	54.00	13.65	247	90	Vertical

Final Data List



4.10.1.29 802.11AC20_Channel 149

Test Graph



Suspected List

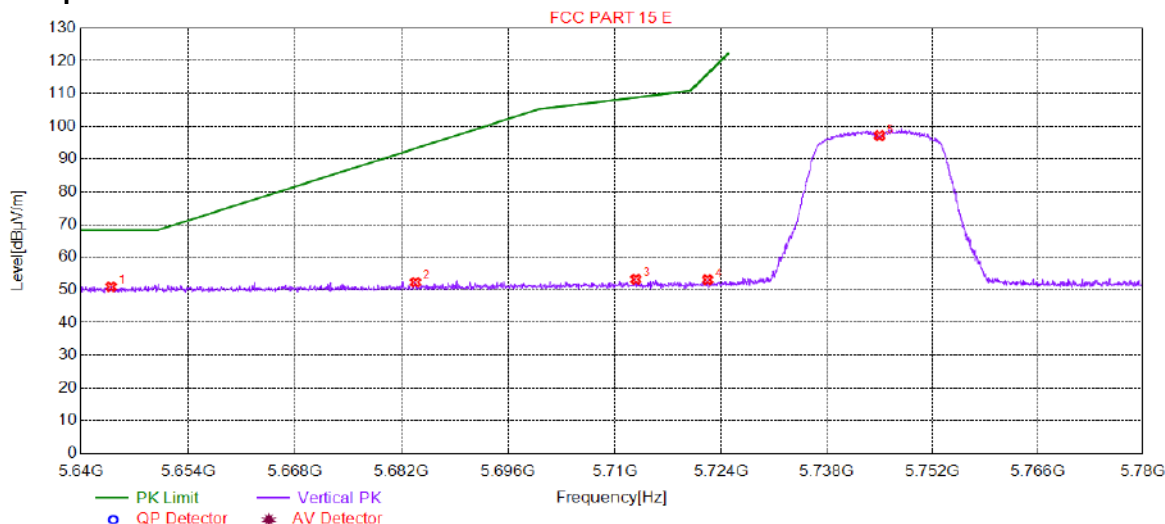
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.71	51.76	16.54	68.30	16.54	155	113	Horizontal
2	5677.88	52.41	16.68	88.94	36.53	229	108	Horizontal
3	5707.30	54.49	16.85	107.35	52.86	178	280	Horizontal
4	5721.87	54.11	16.94	115.17	61.06	221	275	Horizontal
5	5745.00	101.01	17.09	0.00	-101.01	210	280	Horizontal

Final Data List



4.10.1.30 802.11AC20_Channel 149

Test Graph



Suspected List

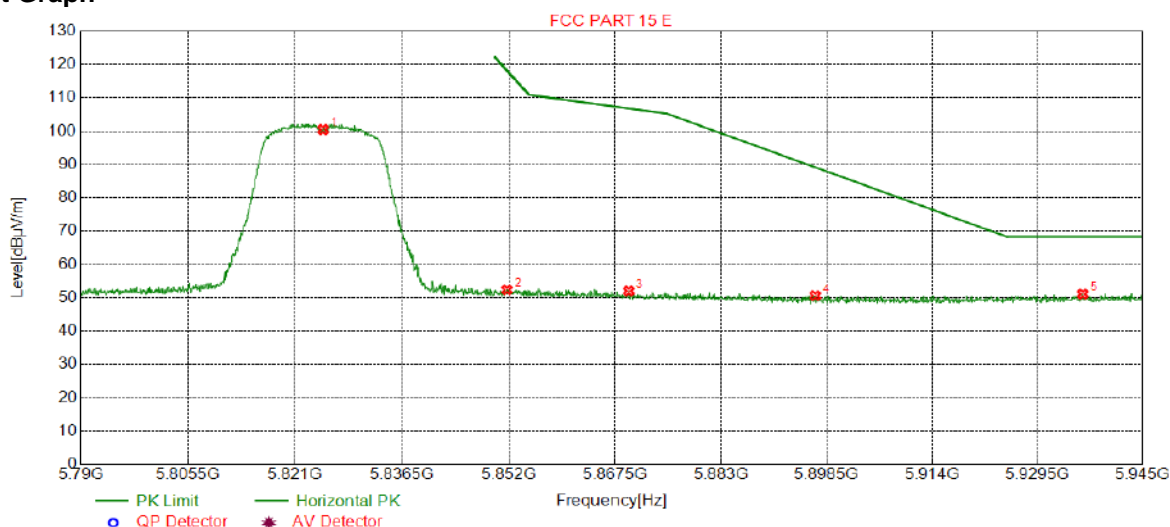
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.92	50.96	16.54	68.30	17.34	196	180	Vertical
2	5683.77	52.37	16.71	93.29	40.92	165	278	Vertical
3	5712.76	53.28	16.88	108.87	55.59	275	291	Vertical
4	5722.22	53.15	16.94	115.96	62.81	165	125	Vertical
5	5745.00	97.17	17.09	0.00	-97.17	194	153	Vertical

Final Data List



4.10.1.31 802.11AC20_Channel 165

Test Graph



Suspected List

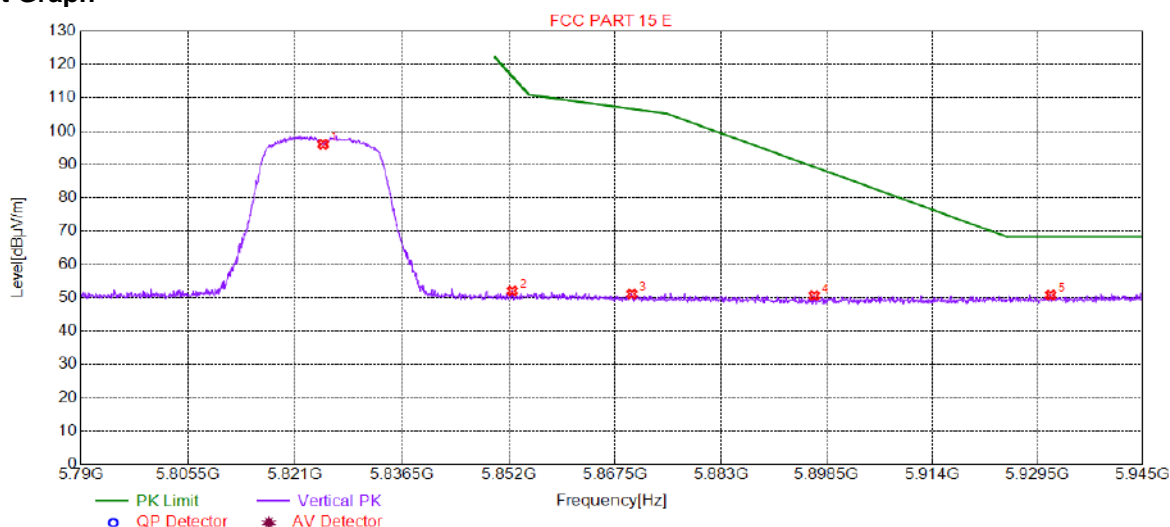
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	100.50	17.23	0.00	-100.50	174	284	Horizontal
2	5851.72	52.40	17.25	118.38	65.98	139	98	Horizontal
3	5869.47	52.04	17.20	106.85	54.81	173	280	Horizontal
4	5896.77	50.63	17.12	89.19	38.56	138	121	Horizontal
5	5936.16	51.13	17.67	68.30	17.17	222	344	Horizontal

Final Data List



4.10.1.32 802.11AC20_Channel 165

Test Graph



Suspected List

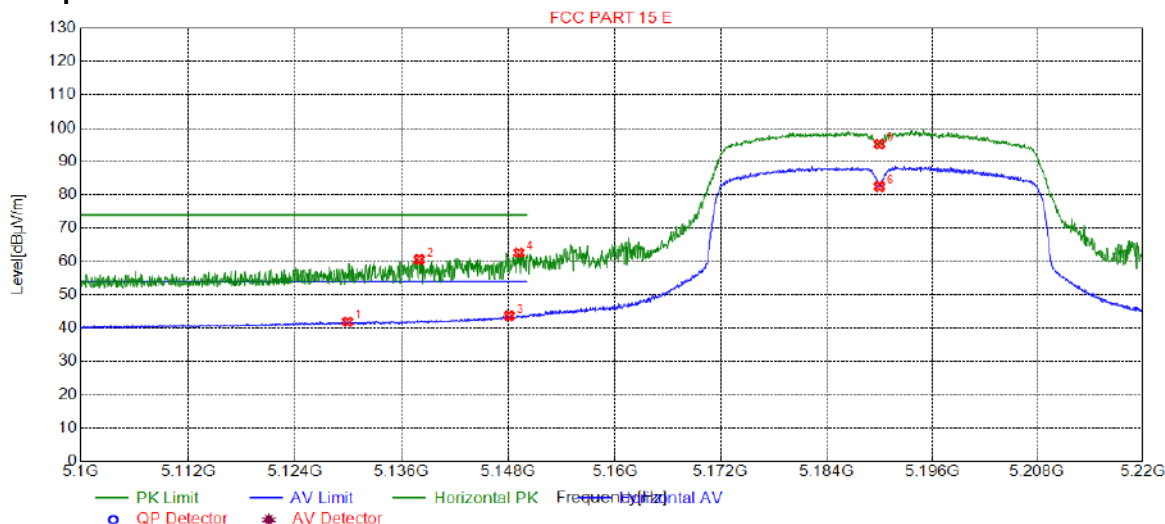
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	96.09	17.23	0.00	-96.09	236	288	Vertical
2	5852.49	52.07	17.25	116.61	64.54	203	182	Vertical
3	5869.94	51.15	17.20	106.72	55.57	216	159	Vertical
4	5896.61	50.66	17.12	89.30	38.64	202	66	Vertical
5	5931.43	50.83	17.59	68.30	17.47	187	135	Vertical

Final Data List



4.10.1.33 802.11AC40_Channel 38

Test Graph



Suspected List

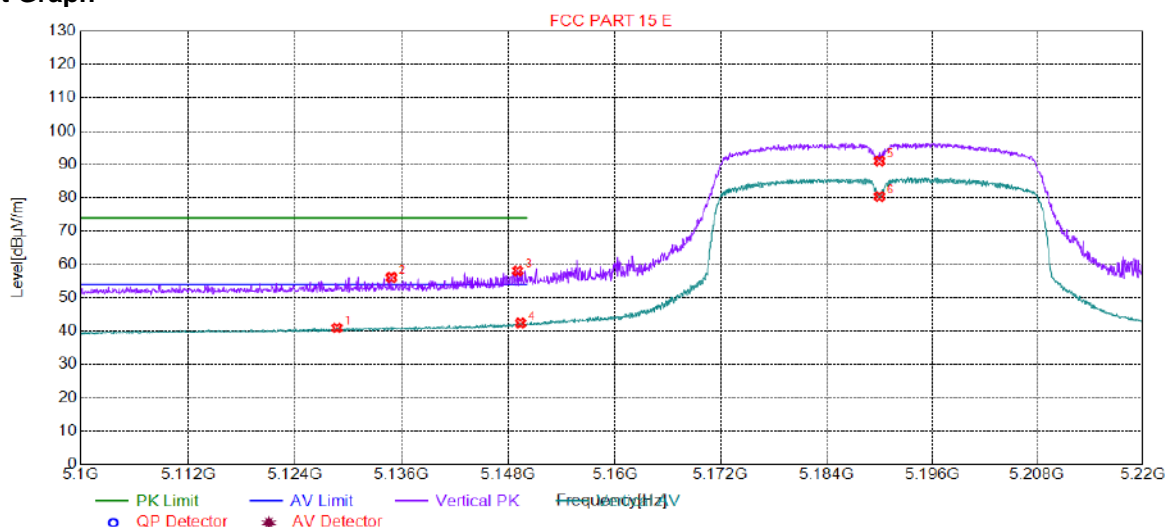
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.89	41.91	15.35	54.00	12.09	210	336	Horizontal
2	5137.93	60.63	15.42	74.00	13.37	200	132	Horizontal
3	5148.08	43.72	15.50	54.00	10.28	220	336	Horizontal
4	5149.16	62.65	15.51	74.00	11.35	112	138	Horizontal
5	5190.00	95.21	15.58	0.00	-95.21	225	324	Horizontal
6	5190.00	82.53	15.58	0.00	-82.53	151	143	Horizontal

Final Data List



4.10.1.34 802.11AC40_Channel 38

Test Graph



Suspected List

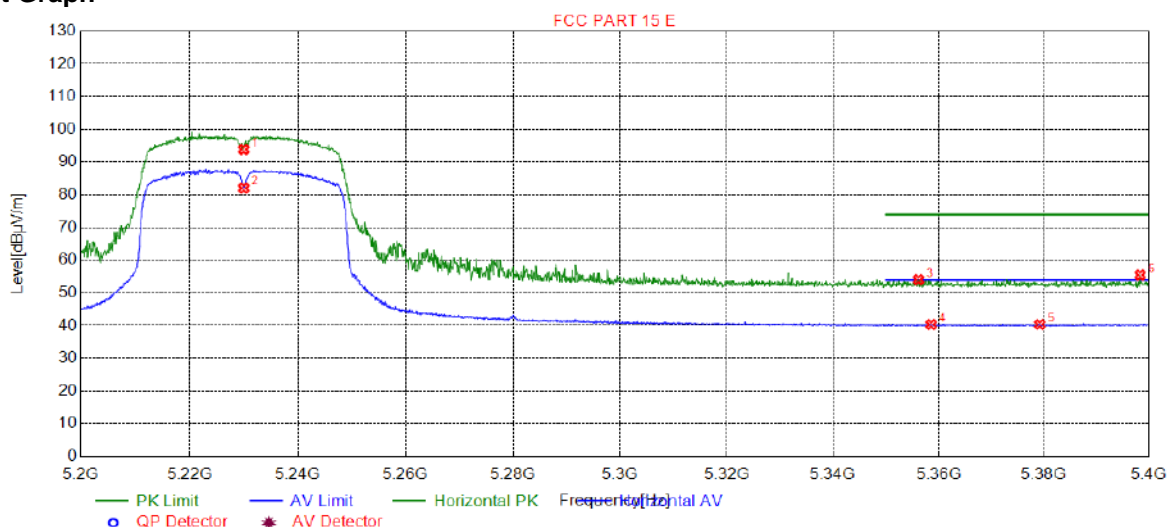
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.69	40.94	15.34	54.00	13.06	241	146	Vertical
2	5134.81	56.10	15.39	74.00	17.90	197	289	Vertical
3	5149.04	58.09	15.51	74.00	15.91	246	289	Vertical
4	5149.34	42.42	15.51	54.00	11.58	231	151	Vertical
5	5190.00	91.10	15.58	0.00	-91.10	278	86	Vertical
6	5190.00	80.40	15.58	0.00	-80.40	282	151	Vertical

Final Data List



4.10.1.35 802.11AC40_Channel 46

Test Graph



Suspected List

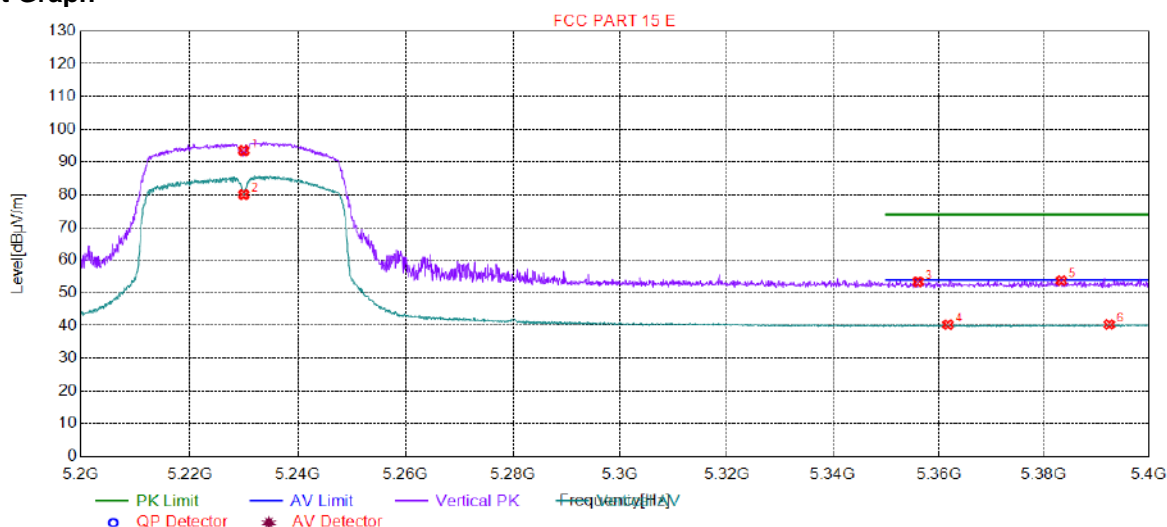
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	93.85	15.51	0.00	-93.85	145	135	Horizontal
2	5230.00	82.07	15.51	0.00	-82.07	145	149	Horizontal
3	5356.17	54.09	15.98	74.00	19.91	120	59	Horizontal
4	5358.57	40.35	15.99	54.00	13.65	104	156	Horizontal
5	5379.18	40.37	16.12	54.00	13.63	139	281	Horizontal
6	5398.29	55.50	16.24	74.00	18.50	239	114	Horizontal

Final Data List



4.10.1.36 802.11AC40_Channel 46

Test Graph



Suspected List

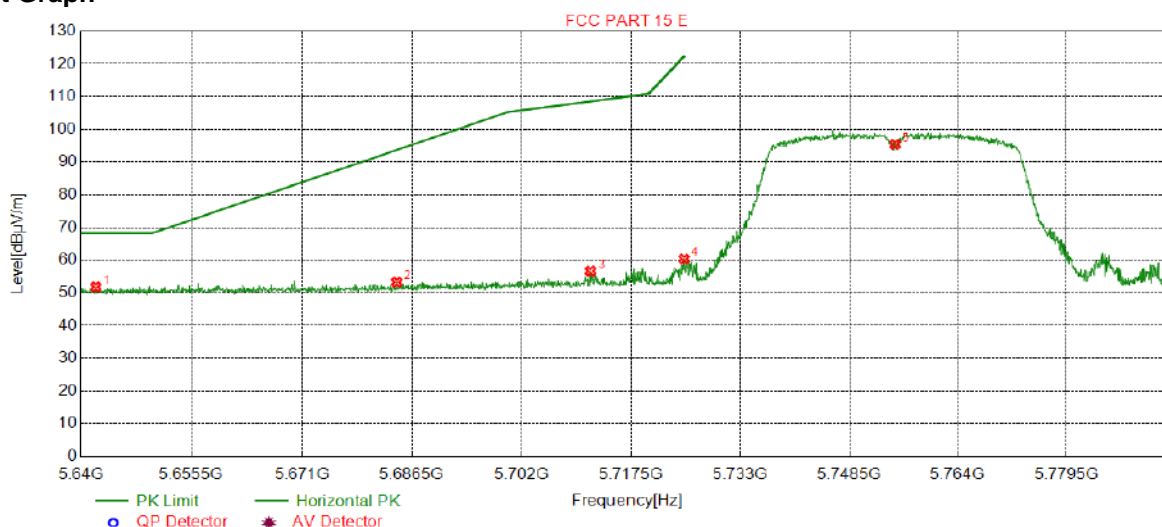
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	93.53	15.51	0.00	-93.53	162	153	Vertical
2	5230.00	80.10	15.51	0.00	-80.10	214	91	Vertical
3	5356.07	53.45	15.98	74.00	20.55	247	257	Vertical
4	5361.78	40.30	16.01	54.00	13.70	224	91	Vertical
5	5383.29	53.81	16.15	74.00	20.19	242	84	Vertical
6	5392.39	40.36	16.20	54.00	13.64	221	98	Vertical

Final Data List



4.10.1.37 802.11AC40_Channel 151

Test Graph



Suspected List

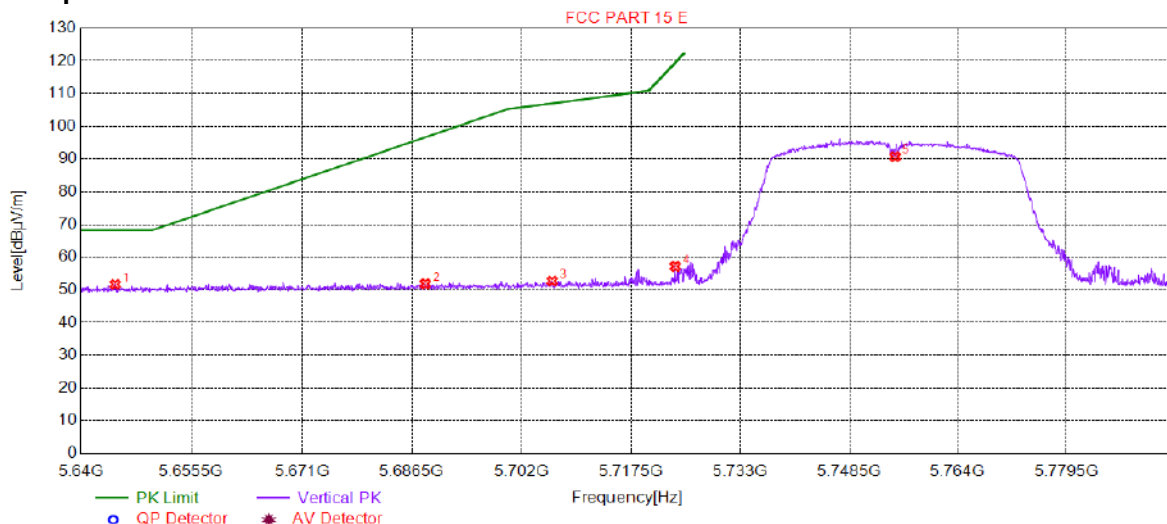
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5642.09	51.84	16.54	68.30	16.46	184	289	Horizontal
2	5684.35	53.33	16.72	93.72	40.39	240	92	Horizontal
3	5711.72	56.67	16.88	108.58	51.91	165	326	Horizontal
4	5724.98	60.38	16.96	122.26	61.88	119	100	Horizontal
5	5755.00	95.42	17.13	0.00	-95.42	123	284	Horizontal

Final Data List



4.10.1.38 802.11AC40_Channel 151

Test Graph



Suspected List

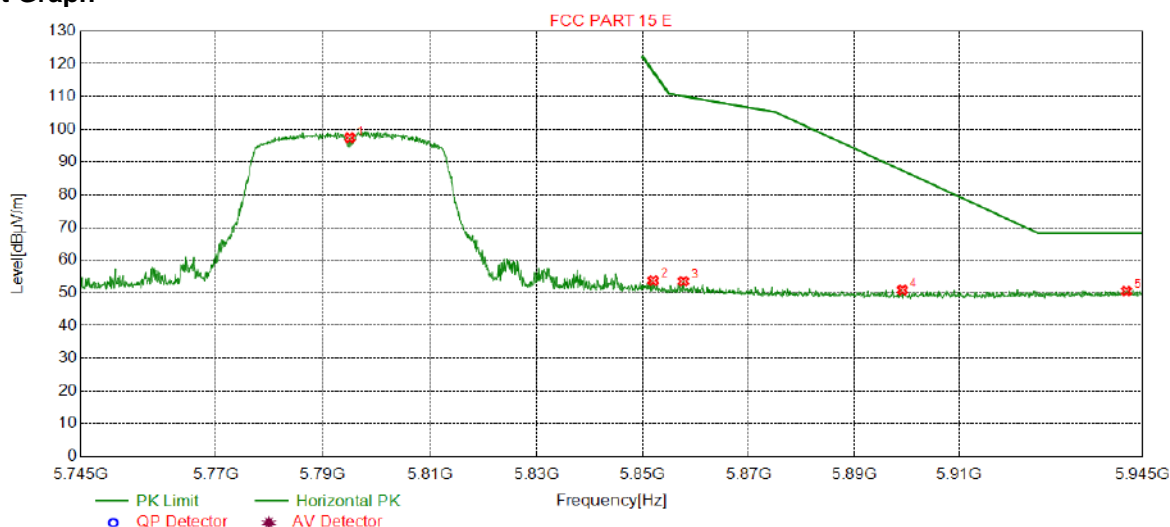
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.80	51.71	16.54	68.30	16.59	257	131	Vertical
2	5688.38	51.90	16.74	96.70	44.80	206	16	Vertical
3	5706.29	52.76	16.84	107.06	54.30	162	140	Vertical
4	5723.74	57.18	16.95	119.43	62.25	272	157	Vertical
5	5755.00	90.77	17.13	0.00	-90.77	296	66	Vertical

Final Data List



4.10.1.39 802.11AC40_Channel 159

Test Graph



Suspected List

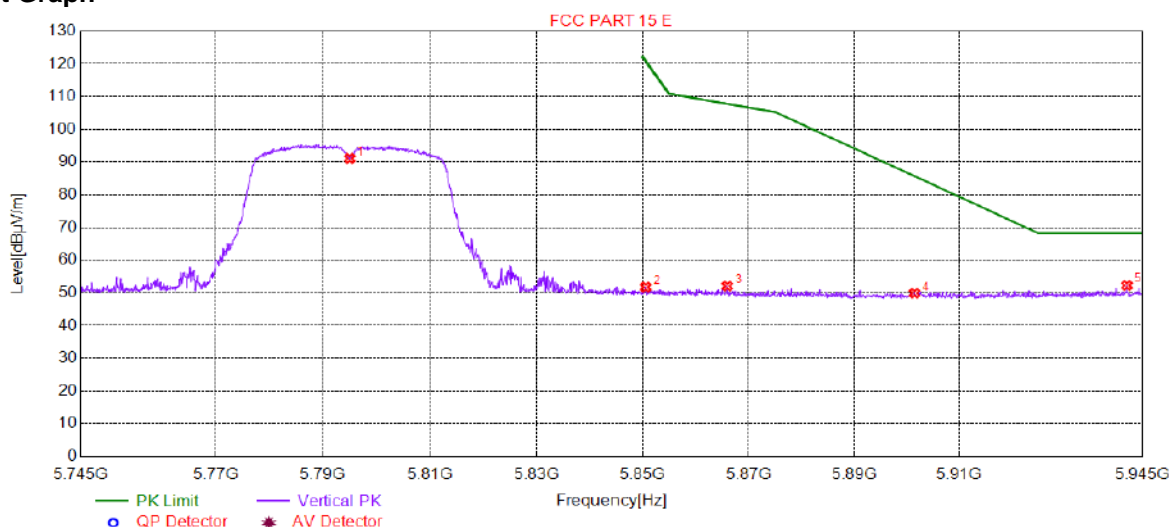
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	97.45	17.18	0.00	-97.45	148	284	Horizontal
2	5851.95	53.82	17.25	117.85	64.03	115	101	Horizontal
3	5857.65	53.60	17.24	110.16	56.56	115	284	Horizontal
4	5899.17	50.90	17.11	87.41	36.51	171	96	Horizontal
5	5941.89	50.56	17.76	68.30	17.74	114	335	Horizontal

Final Data List



4.10.1.40 802.11AC40_Channel 159

Test Graph



Suspected List

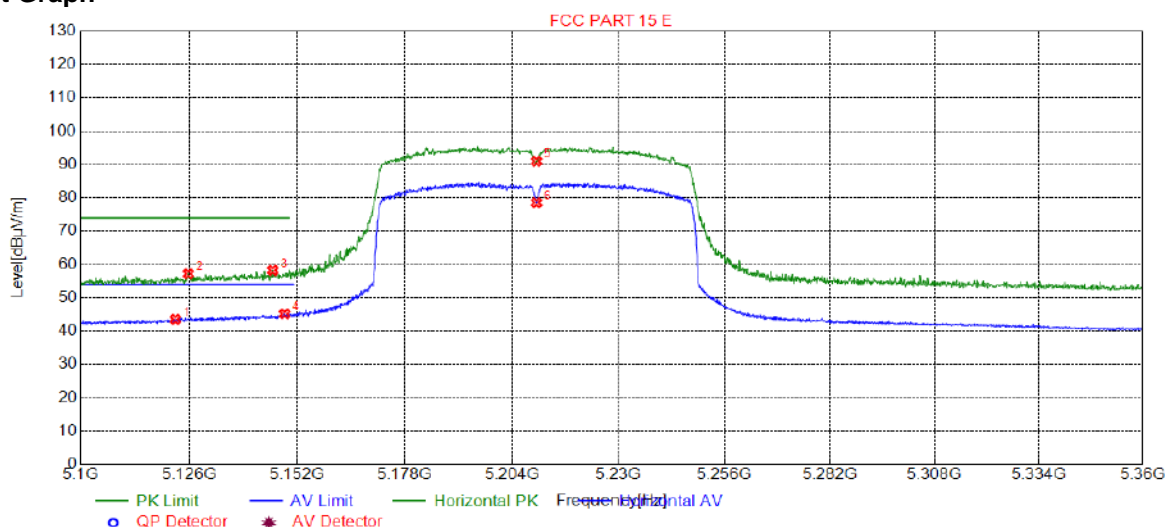
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	91.14	17.18	0.00	-91.14	264	128	Vertical
2	5850.55	51.78	17.26	121.04	69.26	206	57	Vertical
3	5865.96	52.13	17.21	107.83	55.70	189	71	Vertical
4	5901.47	49.92	17.13	85.71	35.79	183	104	Vertical
5	5941.99	52.33	17.76	68.30	15.97	295	71	Vertical

Final Data List



4.10.1.41 802.11AC80_Channel 42

Test Graph



Suspected List

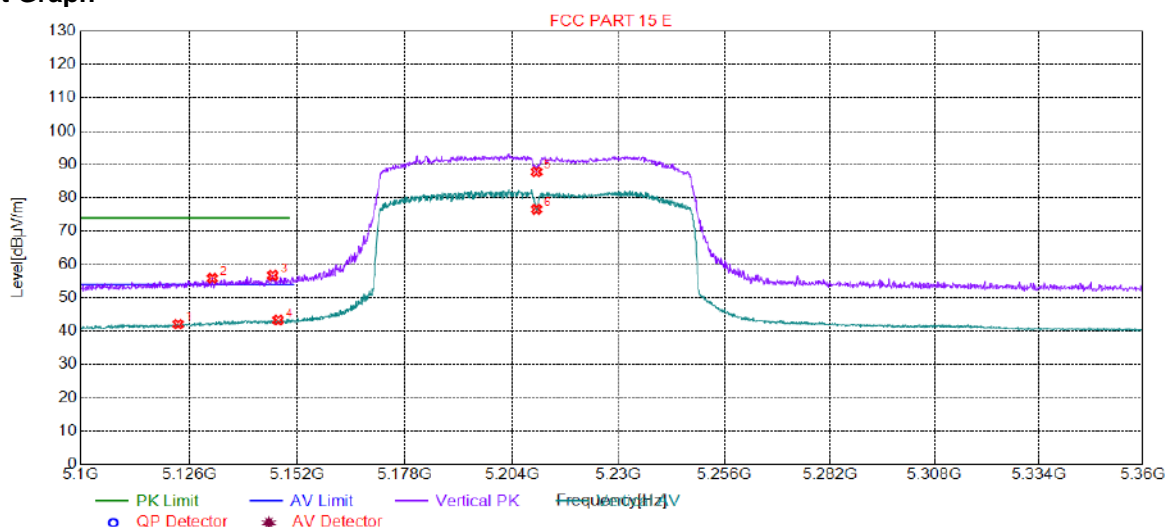
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.63	43.53	15.28	54.00	10.47	225	338	Horizontal
2	5125.75	57.22	15.31	74.00	16.78	140	324	Horizontal
3	5146.04	58.26	15.49	74.00	15.74	228	331	Horizontal
4	5148.90	45.21	15.51	54.00	8.79	106	338	Horizontal
5	5210.00	91.03	15.56	0.00	-91.03	175	297	Horizontal
6	5210.00	78.54	15.56	0.00	-78.54	124	317	Horizontal

Final Data List



4.10.1.42 802.11AC80_Channel 42

Test Graph



Suspected List

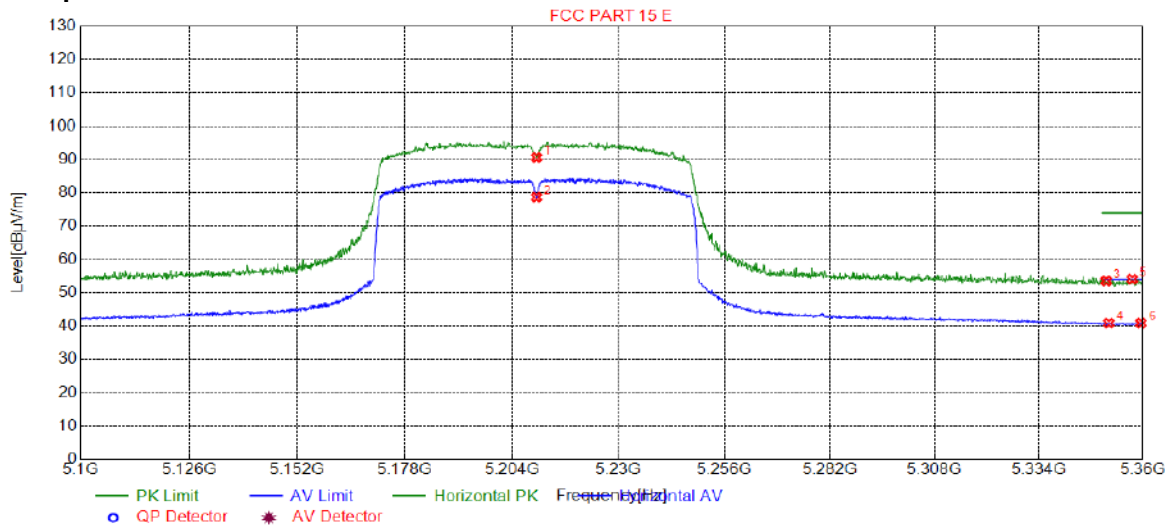
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.28	42.09	15.29	54.00	11.91	167	145	Vertical
2	5131.47	55.89	15.36	74.00	18.11	190	145	Vertical
3	5146.04	56.75	15.49	74.00	17.25	174	152	Vertical
4	5147.34	43.32	15.50	54.00	10.68	287	138	Vertical
5	5210.00	87.81	15.56	0.00	-87.81	262	97	Vertical
6	5210.00	76.55	15.56	0.00	-76.55	257	84	Vertical

Final Data List



4.10.1.43 802.11AC80_Channel 42

Test Graph



Suspected List

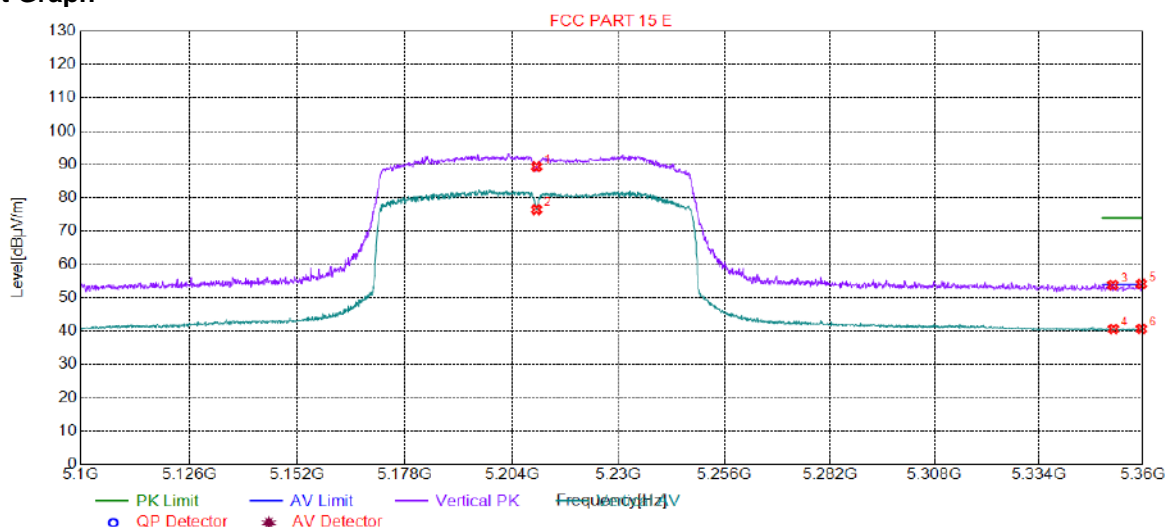
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	90.66	15.56	0.00	-90.66	155	303	Horizontal
2	5210.00	78.71	15.56	0.00	-78.71	228	338	Horizontal
3	5350.89	53.60	15.95	74.00	20.40	240	72	Horizontal
4	5351.54	40.88	15.95	54.00	13.12	166	141	Horizontal
5	5357.39	54.13	15.99	74.00	19.87	242	65	Horizontal
6	5359.60	40.90	16.00	54.00	13.10	187	296	Horizontal

Final Data List



4.10.1.44 802.11AC80_Channel 42

Test Graph



Suspected List

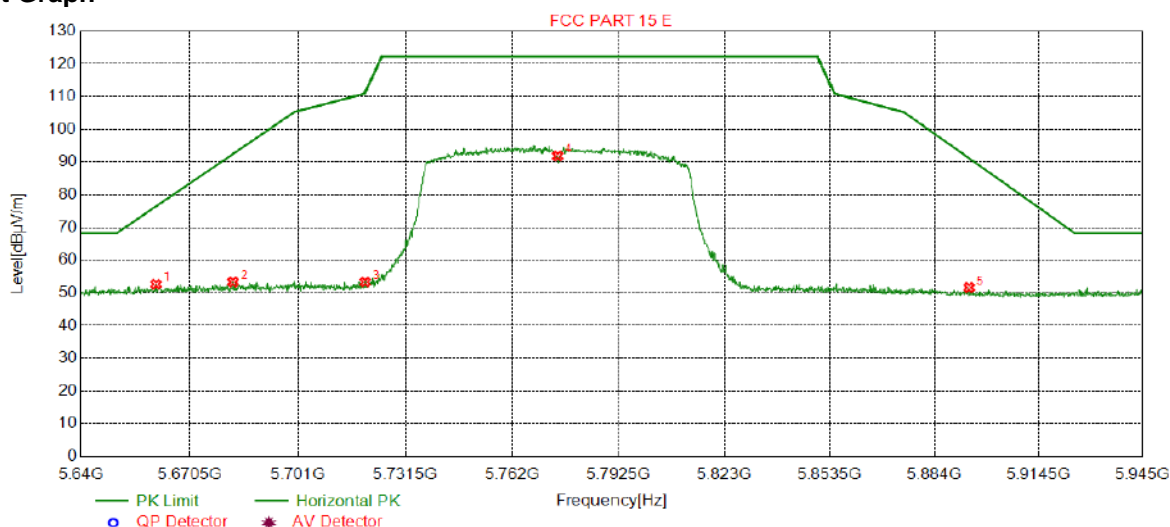
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	89.39	15.56	0.00	-89.39	298	91	Vertical
2	5210.00	76.46	15.56	0.00	-76.46	293	153	Vertical
3	5352.58	53.86	15.96	74.00	20.14	165	84	Vertical
4	5352.71	40.60	15.96	54.00	13.40	207	77	Vertical
5	5359.73	54.19	16.00	74.00	19.81	294	104	Vertical
6	5359.73	40.65	16.00	54.00	13.35	158	77	Vertical

Final Data List



4.10.1.45 802.11AC80_Channel 155

Test Graph



Suspected List

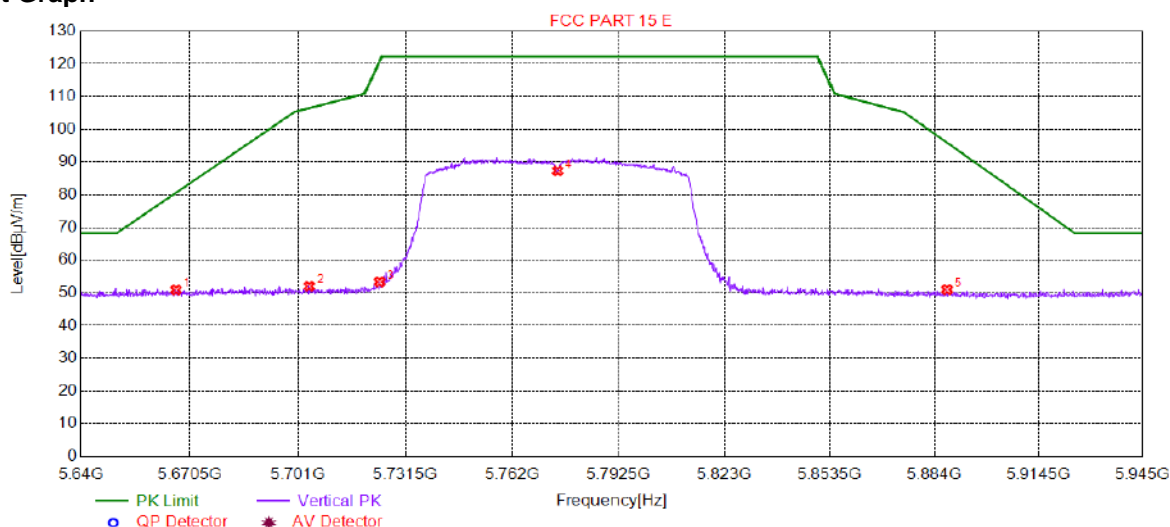
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5661.05	52.68	16.59	76.48	23.80	123	287	Horizontal
2	5682.72	53.39	16.71	92.51	39.12	203	116	Horizontal
3	5720.10	53.37	16.93	111.13	57.76	156	312	Horizontal
4	5775.00	91.90	17.16	122.30	30.40	152	278	Horizontal
5	5894.03	51.66	17.13	91.21	39.55	163	102	Horizontal

Final Data List



4.10.1.46 802.11AC80_Channel 155

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5666.70	50.94	16.62	80.66	29.72	170	52	Vertical
2	5704.23	52.07	16.83	106.49	54.42	269	279	Vertical
3	5724.22	53.41	16.96	120.53	67.12	206	135	Vertical
4	5775.00	87.34	17.16	122.30	34.96	196	160	Vertical
5	5887.63	51.04	17.15	95.95	44.91	166	273	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All modes have been tested, but only the worst case data displayed in this report.



4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.000556	5825.008391
V max(V)	5180.000863	5825.014320
V min(V)	5180.008703	5825.024230
Max. Deviation Frequency	0.008703	0.024230
Max. Frequency Error (ppm)	1.680152	4.159690

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.003226	5825.009082
5	5180.009798	5825.013062
15	5180.010348	5825.020630
25	5180.017504	5825.023766
35	5180.027417	5825.031459
45	5180.033047	5825.031692
50	5180.035878	5825.039141
Max. Deviation Frequency	0.035878	0.039141
Max. Frequency Error (ppm)	6.926277	6.719423



5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Temperature test	$\pm 1^{\circ}\text{C}$
5	Humidity test	$\pm 3\%$
6	DC and low frequency voltages	$\pm 0.5\%$

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
				2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
				2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR





RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2020-04-15	2021-04-14
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
				2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
				2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
				2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
				2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
				2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR





7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/90032.

The End

