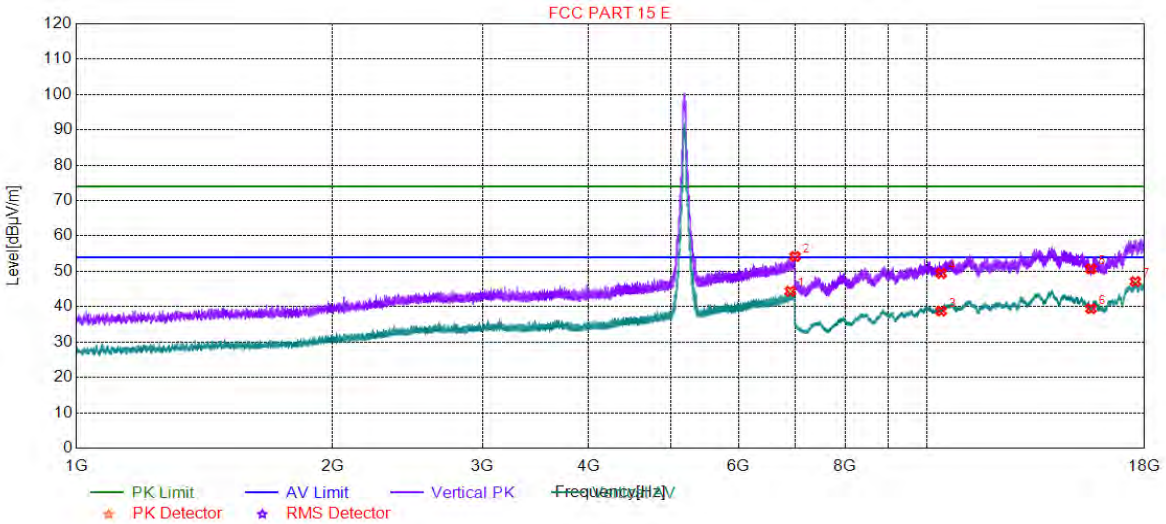
4.8.2.91 11AC40_38 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6900.9951	44.39	12.40	54.00	9.61	150	171	Vertical
2	6990.9996	54.22	12.74	74.00	19.78	150	200	Vertical
3	10380.0000	38.78	-5.36	54.00	15.22	150	301	Vertical
4	10380.0000	49.43	-5.36	74.00	24.57	150	329	Vertical
5	15570.0000	50.69	-4.02	74.00	23.31	150	244	Vertical
6	15570.0000	39.46	-4.02	54.00	14.54	150	103	Vertical
7	17552.8276	47.11	1.03	54.00	6.89	150	216	Vertical

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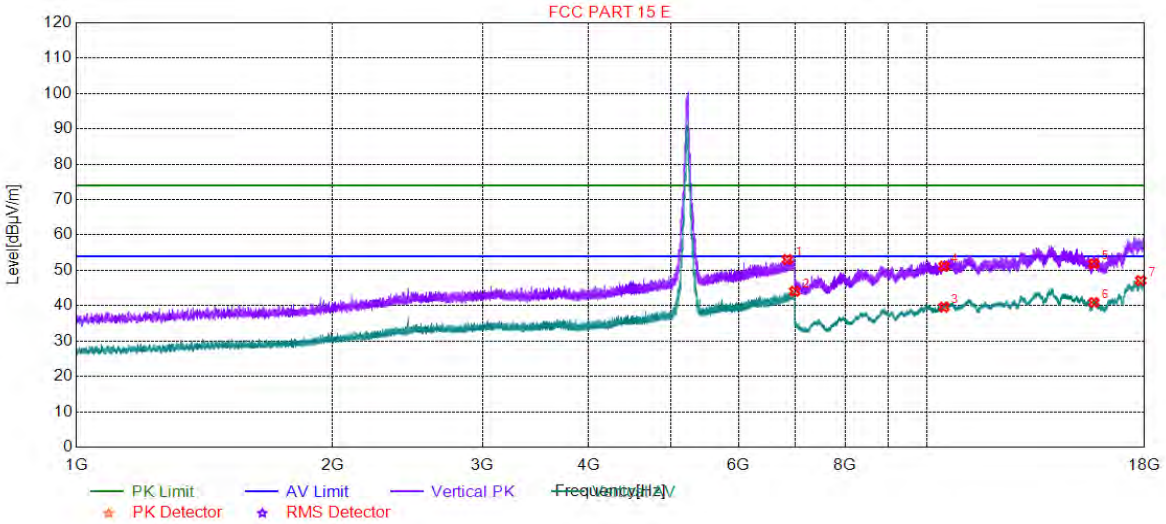
4.8.2.92 11AC40_46 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6847.5924	53.09	12.20	74.00	20.91	150	247	Vertical
2	6984.0992	44.06	12.71	54.00	9.94	150	104	Vertical
3	10460.0000	39.61	-4.70	54.00	14.39	150	337	Vertical
4	10460.0000	51.13	-4.70	74.00	22.87	150	168	Vertical
5	15690.0000	51.84	-2.93	74.00	22.16	150	225	Vertical
6	15690.0000	40.92	-2.93	54.00	13.08	150	112	Vertical
7	17814.0907	47.11	-0.82	54.00	6.89	150	140	Vertical

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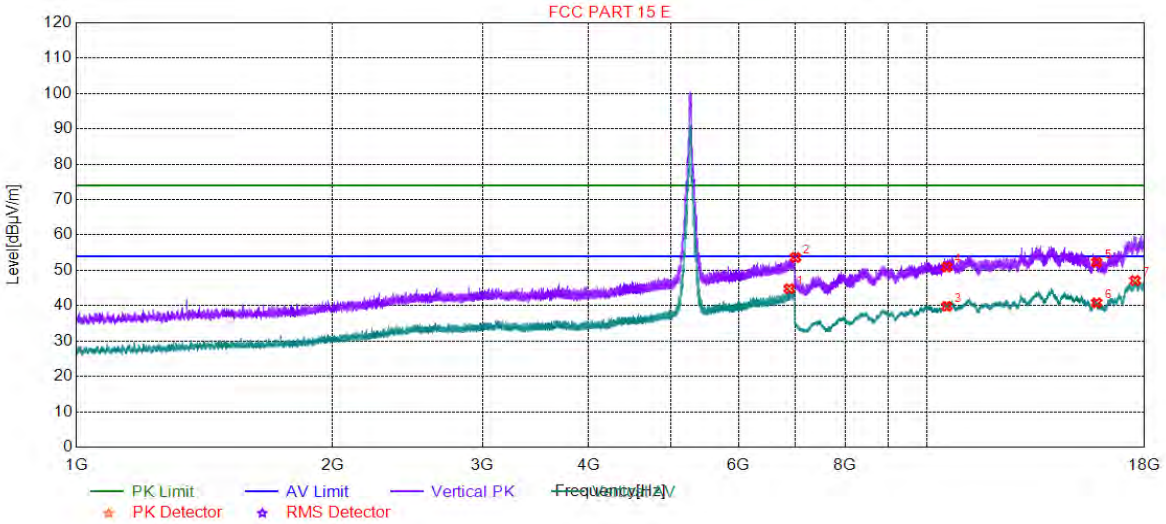
4.8.2.93 11AC40_54 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6882.6941	44.80	12.33	54.00	9.20	150	18	Vertical
2	6999.7000	53.63	12.77	74.00	20.37	150	190	Vertical
3	10540.0000	39.82	-4.46	54.00	14.18	150	131	Vertical
4	10540.0000	50.95	-4.46	74.00	23.05	150	131	Vertical
5	15810.0000	52.25	-2.42	74.00	21.75	150	18	Vertical
6	15810.0000	40.81	-2.42	54.00	13.19	150	356	Vertical
7	17542.9271	47.11	0.90	54.00	6.89	150	75	Vertical

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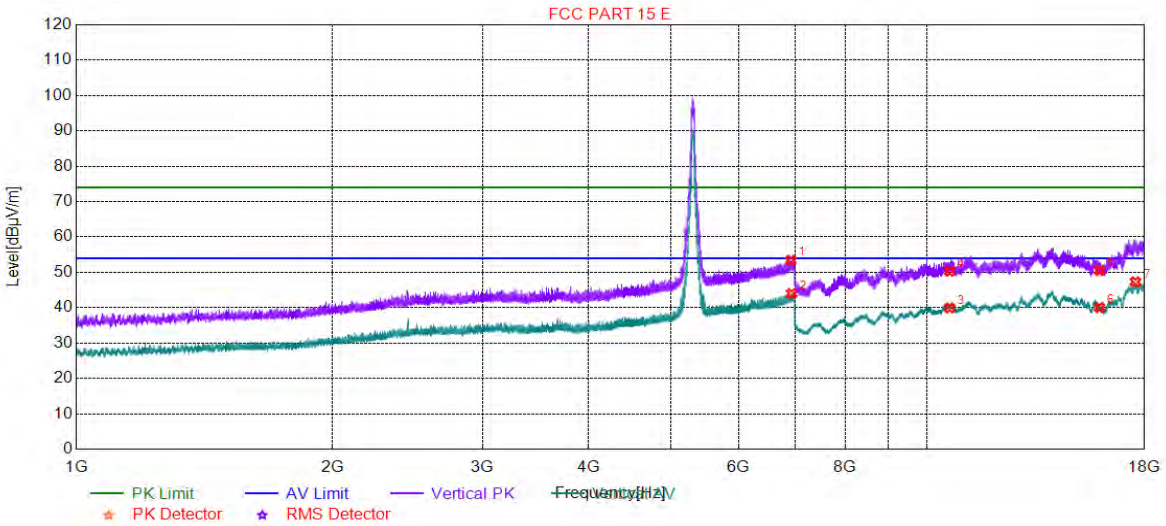
4.8.2.94 11AC40_62 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.2955	53.40	12.44	74.00	20.60	150	161	Vertical
2	6926.4963	44.01	12.50	54.00	9.99	150	305	Vertical
3	10620.0000	39.94	-4.72	54.00	14.06	150	356	Vertical
4	10620.0000	50.32	-4.72	74.00	23.68	150	160	Vertical
5	15930.0000	50.55	-3.73	74.00	23.45	150	160	Vertical
6	15930.0000	40.06	-3.73	54.00	13.94	150	47	Vertical
7	17558.3279	47.30	1.10	54.00	6.70	150	47	Vertical

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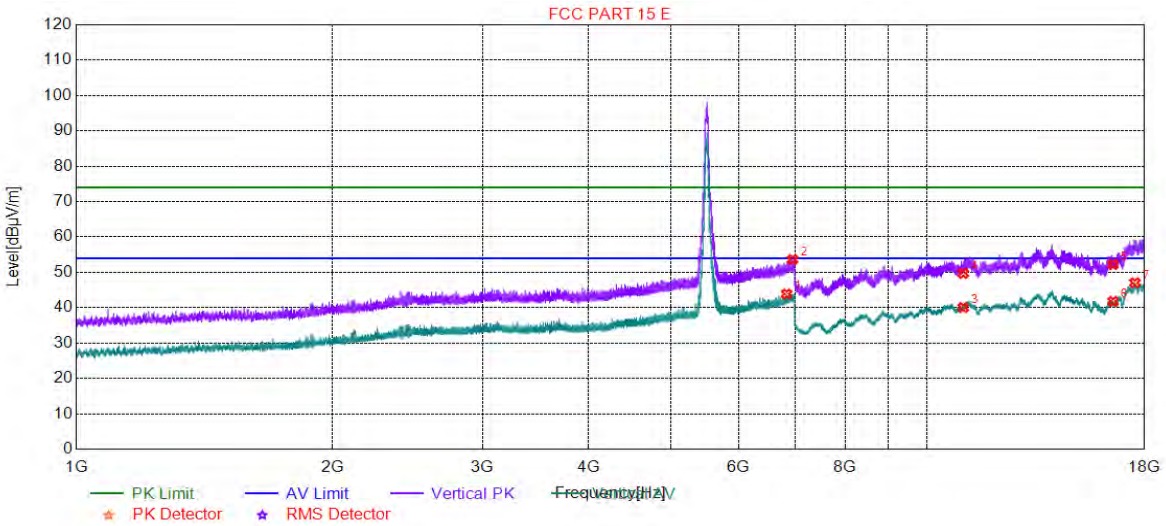
4.8.2.95 11AC40_102 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6834.0917	43.89	12.15	54.00	10.11	150	190	Vertical
2	6944.4972	53.62	12.56	74.00	20.38	150	306	Vertical
3	11020.0000	40.06	-4.09	54.00	13.94	150	160	Vertical
4	11020.0000	49.68	-4.09	74.00	24.32	150	75	Vertical
5	16530.0000	52.23	-3.84	74.00	21.77	150	131	Vertical
6	16530.0000	41.80	-3.84	54.00	12.20	150	131	Vertical
7	17535.2268	47.06	0.80	54.00	6.94	150	103	Vertical

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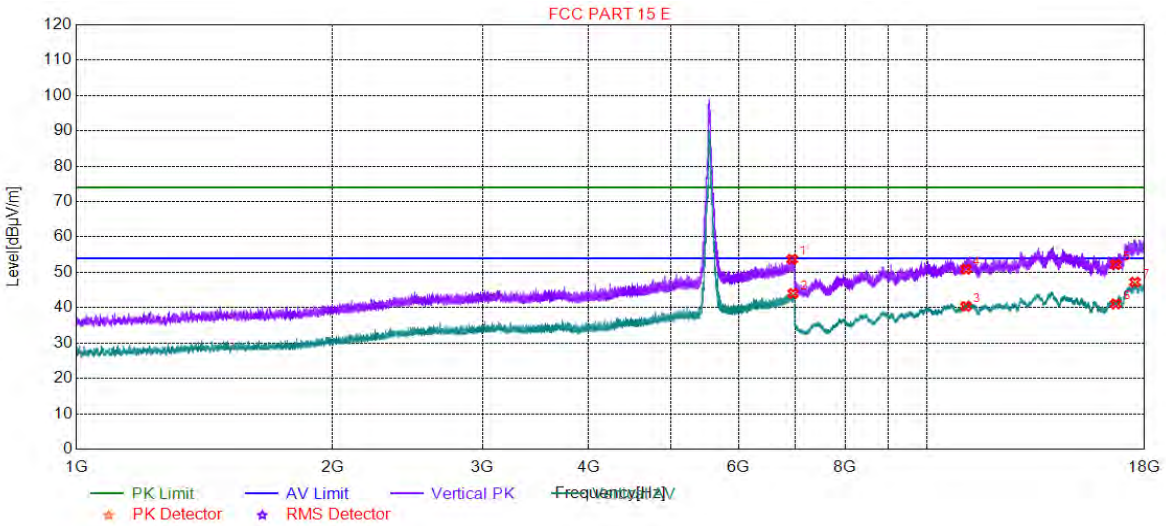
4.8.2.96 11AC40_110 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6935.4968	53.70	12.53	74.00	20.30	150	275	Vertical
2	6953.7977	44.05	12.60	54.00	9.95	150	47	Vertical
3	11100.0000	40.37	-3.36	54.00	13.63	150	131	Vertical
4	11100.0000	50.89	-3.36	74.00	23.11	150	160	Vertical
5	16650.0000	52.21	-4.20	74.00	21.79	150	103	Vertical
6	16650.0000	41.09	-4.20	54.00	12.91	150	328	Vertical
7	17535.7768	47.24	0.81	54.00	6.76	150	328	Vertical

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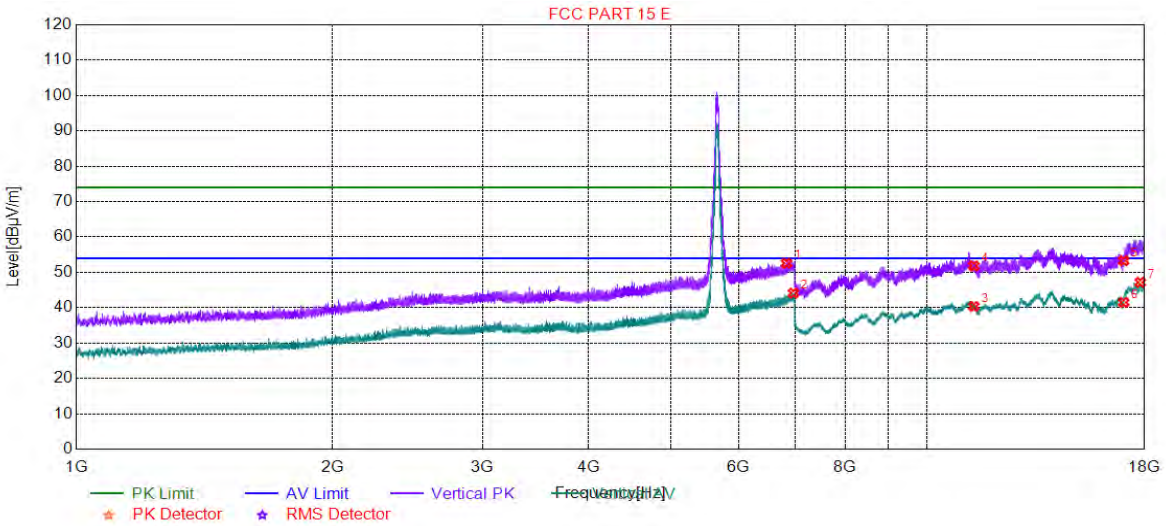
4.8.2.97 11AC40_134 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6830.1915	52.58	12.13	74.00	21.42	150	305	Vertical
2	6960.6980	44.12	12.62	54.00	9.88	150	333	Vertical
3	11340.0000	40.36	-4.59	54.00	13.64	150	136	Vertical
4	11340.0000	51.81	-4.59	74.00	22.19	150	280	Vertical
5	17010.0000	53.28	-3.20	74.00	20.72	150	359	Vertical
6	17010.0000	41.50	-3.20	54.00	12.50	150	18	Vertical
7	17789.8895	47.17	-0.79	54.00	6.83	150	280	Vertical

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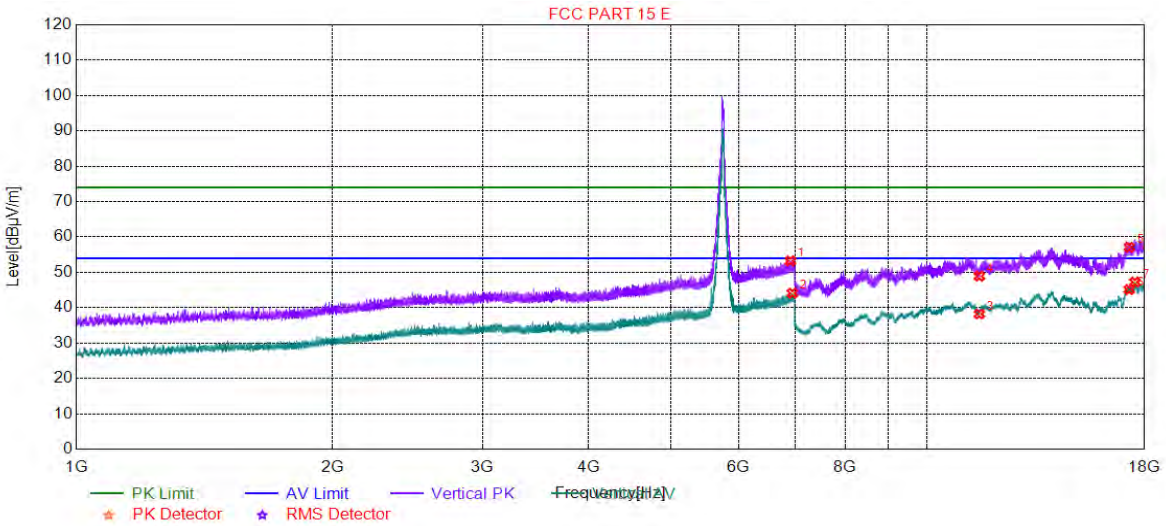
4.8.2.98 11AC40_151 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6903.9952	53.25	12.41	74.00	20.75	150	75	Vertical
2	6939.3970	44.10	12.55	54.00	9.90	150	133	Vertical
3	11510.0000	38.22	-5.50	54.00	15.78	150	84	Vertical
4	11510.0000	48.91	-5.50	74.00	25.09	150	197	Vertical
5	17265.0000	57.10	-1.33	74.00	16.90	150	84	Vertical
6	17265.0000	45.13	-1.33	54.00	8.87	150	309	Vertical
7	17533.0267	47.24	0.77	54.00	6.76	150	253	Vertical

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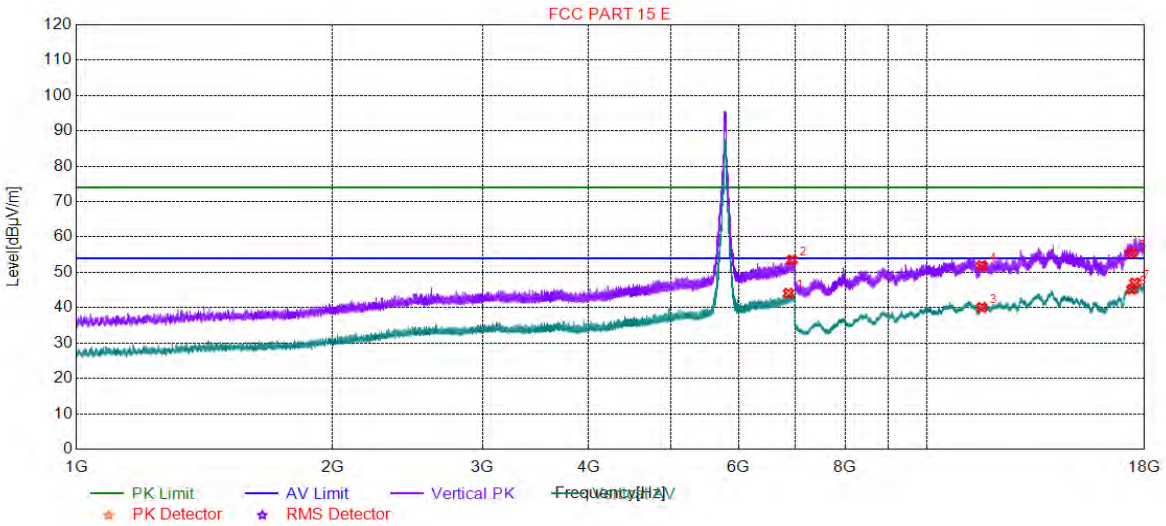
4.8.2.99 11AC40_159 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6867.9934	44.09	12.28	54.00	9.91	150	219	Vertical
2	6933.6967	53.51	12.52	74.00	20.49	150	161	Vertical
3	11590.0000	40.07	-3.32	54.00	13.93	150	188	Vertical
4	11590.0000	51.94	-3.32	74.00	22.06	150	356	Vertical
5	17385.0000	55.50	-1.02	74.00	18.50	150	216	Vertical
6	17385.0000	45.21	-1.02	54.00	8.79	150	356	Vertical
7	17525.8763	47.03	0.68	54.00	6.97	150	273	Vertical

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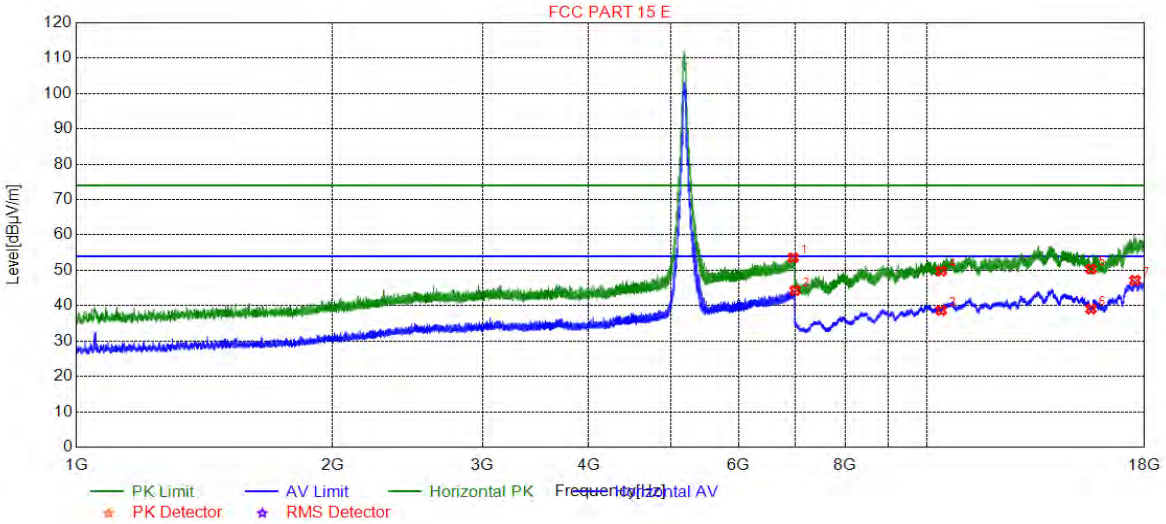
4.8.2.100 11AC40_38 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6955.8978	53.55	12.61	74.00	20.45	150	332	Horizontal
2	6989.1995	44.32	12.73	54.00	9.68	150	47	Horizontal
3	10380.0000	38.67	-5.36	54.00	15.33	150	59	Horizontal
4	10380.0000	49.80	-5.36	74.00	24.20	150	314	Horizontal
5	15570.0000	50.36	-4.02	74.00	23.64	150	314	Horizontal
6	15570.0000	39.08	-4.02	54.00	14.92	150	229	Horizontal
7	17539.0770	47.17	0.85	54.00	6.83	150	285	Horizontal

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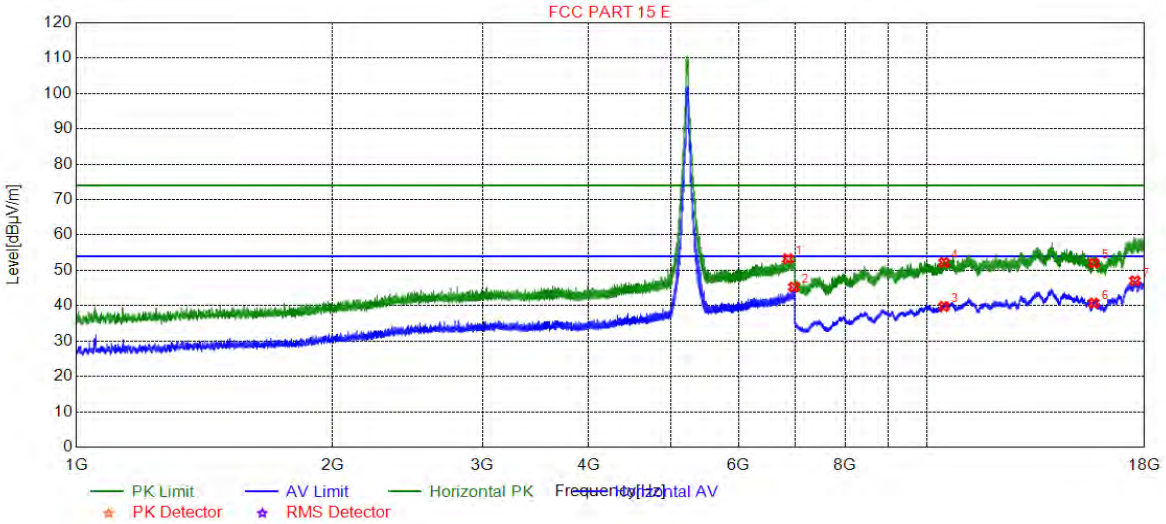
4.8.2.101 11AC40_46 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6857.1929	53.28	12.24	74.00	20.72	150	282	Horizontal
2	6969.3985	45.26	12.66	54.00	8.74	150	342	Horizontal
3	10460.0000	39.80	-4.70	54.00	14.20	150	342	Horizontal
4	10460.0000	52.20	-4.70	74.00	21.80	150	284	Horizontal
5	15690.0000	52.07	-2.93	74.00	21.93	150	30	Horizontal
6	15690.0000	40.74	-2.93	54.00	13.26	150	227	Horizontal
7	17534.1267	47.06	0.79	54.00	6.94	150	199	Horizontal

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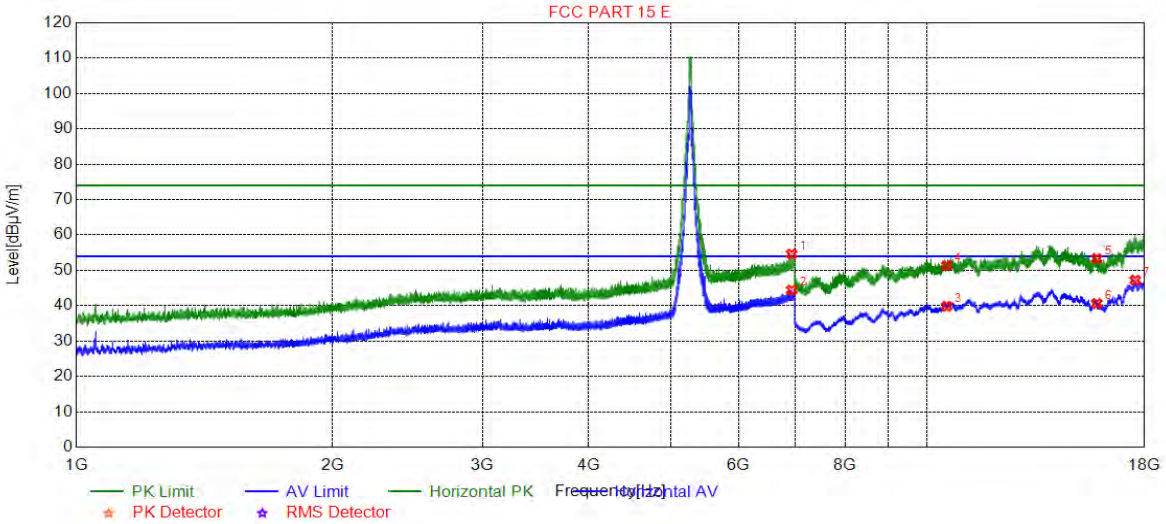
4.8.2.102 11AC40_54 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6926.1963	54.63	12.50	74.00	19.37	150	55	Horizontal
2	6929.1965	44.41	12.51	54.00	9.59	150	84	Horizontal
3	10540.0000	39.83	-4.46	54.00	14.17	150	29	Horizontal
4	10540.0000	51.36	-4.46	74.00	22.64	150	342	Horizontal
5	15810.0000	53.31	-2.42	74.00	20.69	150	342	Horizontal
6	15810.0000	40.61	-2.42	54.00	13.39	150	171	Horizontal
7	17550.0775	47.21	0.99	54.00	6.79	150	29	Horizontal

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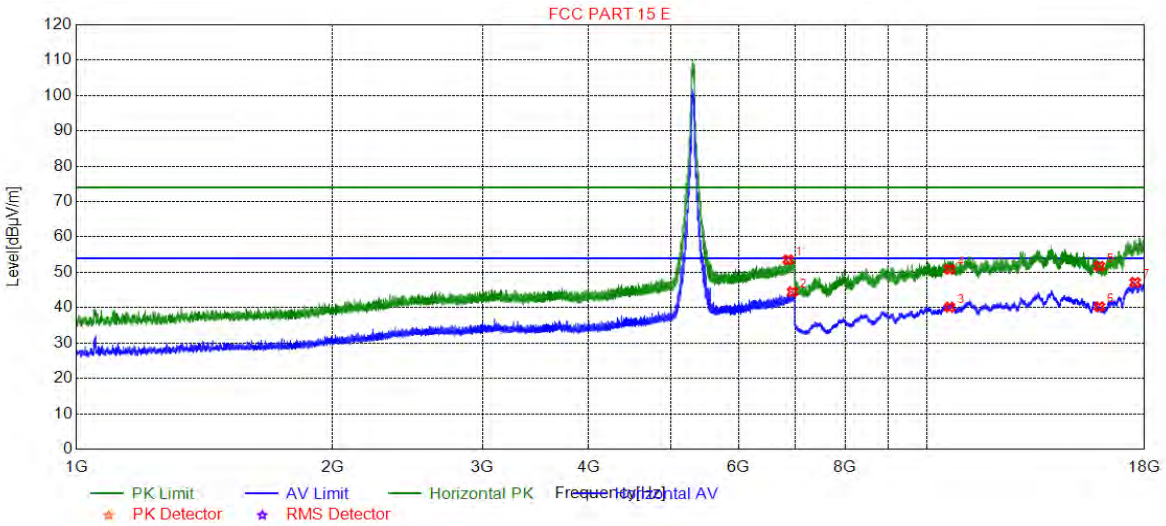
4.8.2.103 11AC40_62 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6861.9931	53.54	12.26	74.00	20.46	150	113	Horizontal
2	6942.9972	44.48	12.56	54.00	9.52	150	285	Horizontal
3	10620.0000	40.14	-4.72	54.00	13.86	150	314	Horizontal
4	10620.0000	50.86	-4.72	74.00	23.14	150	172	Horizontal
5	15930.0000	51.70	-3.73	74.00	22.30	150	144	Horizontal
6	15930.0000	40.27	-3.73	54.00	13.73	150	60	Horizontal
7	17545.6773	47.16	0.93	54.00	6.84	150	88	Horizontal

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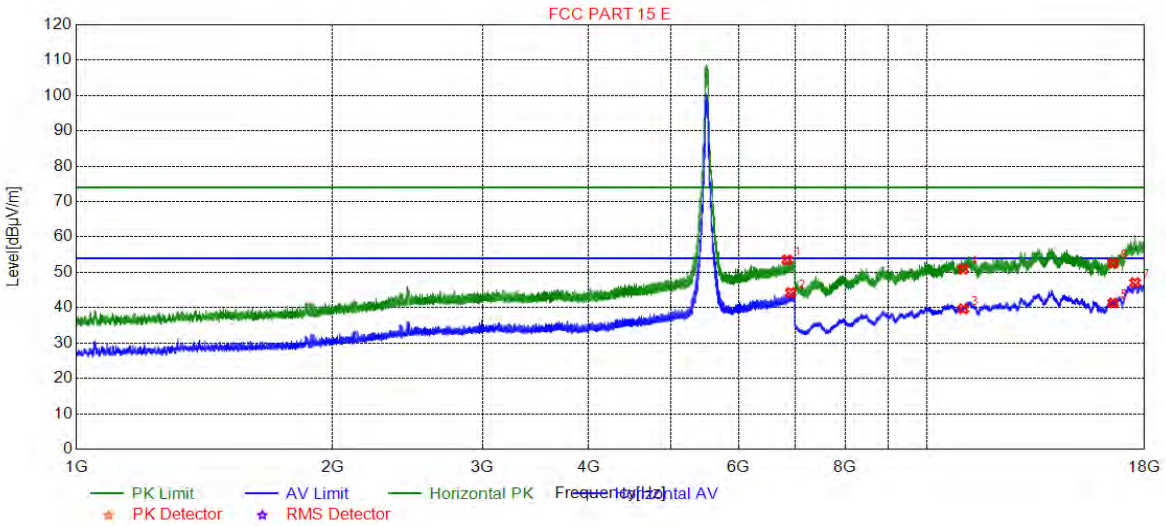
4.8.2.104 11AC40_102 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6843.3922	53.53	12.18	74.00	20.47	150	197	Horizontal
2	6910.2955	44.29	12.44	54.00	9.71	150	54	Horizontal
3	11020.0000	39.67	-4.09	54.00	14.33	150	4	Horizontal
4	11020.0000	50.93	-4.09	74.00	23.07	150	313	Horizontal
5	16530.0000	41.36	-3.84	54.00	12.64	150	60	Horizontal
6	16530.0000	52.61	-3.84	74.00	21.39	150	342	Horizontal
7	17541.8271	47.09	0.89	54.00	6.91	150	172	Horizontal

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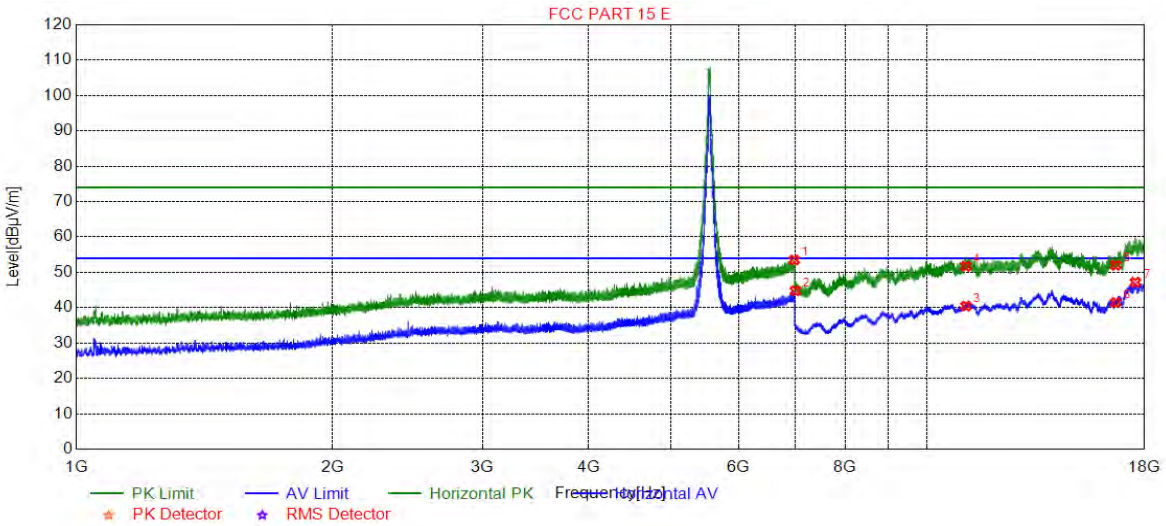
4.8.2.105 11AC40_110 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6975.3988	53.49	12.68	74.00	20.51	150	55	Horizontal
2	6997.2999	44.78	12.76	54.00	9.22	150	342	Horizontal
3	11100.0000	40.46	-3.36	54.00	13.54	150	313	Horizontal
4	11100.0000	51.71	-3.36	74.00	22.29	150	116	Horizontal
5	16650.0000	52.01	-4.20	74.00	21.99	150	4	Horizontal
6	16650.0000	41.48	-4.20	54.00	12.52	150	31	Horizontal
7	17556.1278	47.20	1.07	54.00	6.80	150	88	Horizontal

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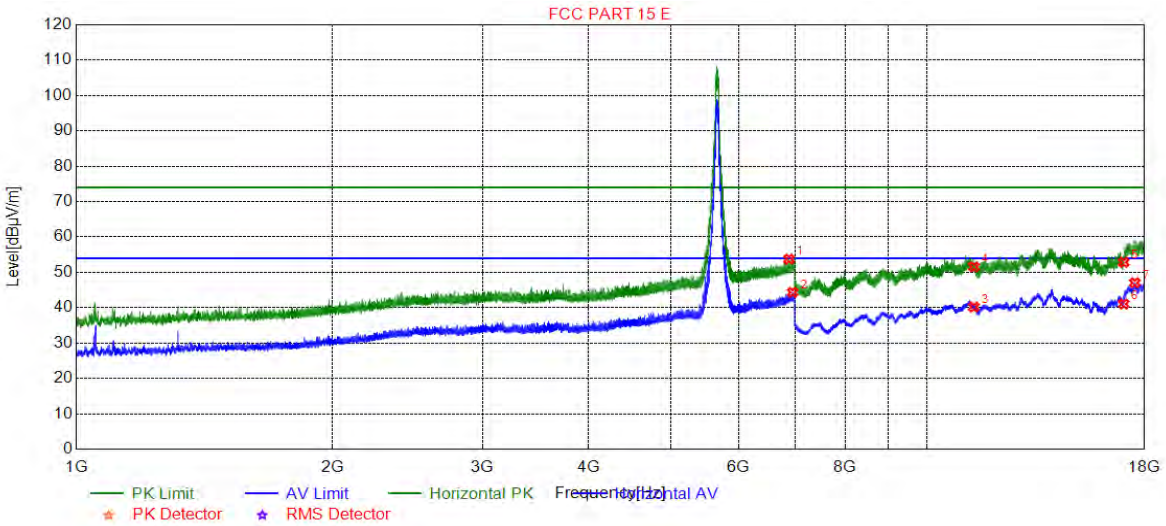
4.8.2.106 11AC40_134 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6876.3938	53.76	12.31	74.00	20.24	150	170	Horizontal
2	6943.8972	44.33	12.56	54.00	9.67	150	84	Horizontal
3	11340.0000	40.19	-4.59	54.00	13.81	150	173	Horizontal
4	11340.0000	51.57	-4.59	74.00	22.43	150	229	Horizontal
5	17010.0000	52.84	-3.20	74.00	21.16	150	144	Horizontal
6	17010.0000	41.06	-3.20	54.00	12.94	150	342	Horizontal
7	17530.2765	47.05	0.74	54.00	6.95	150	173	Horizontal

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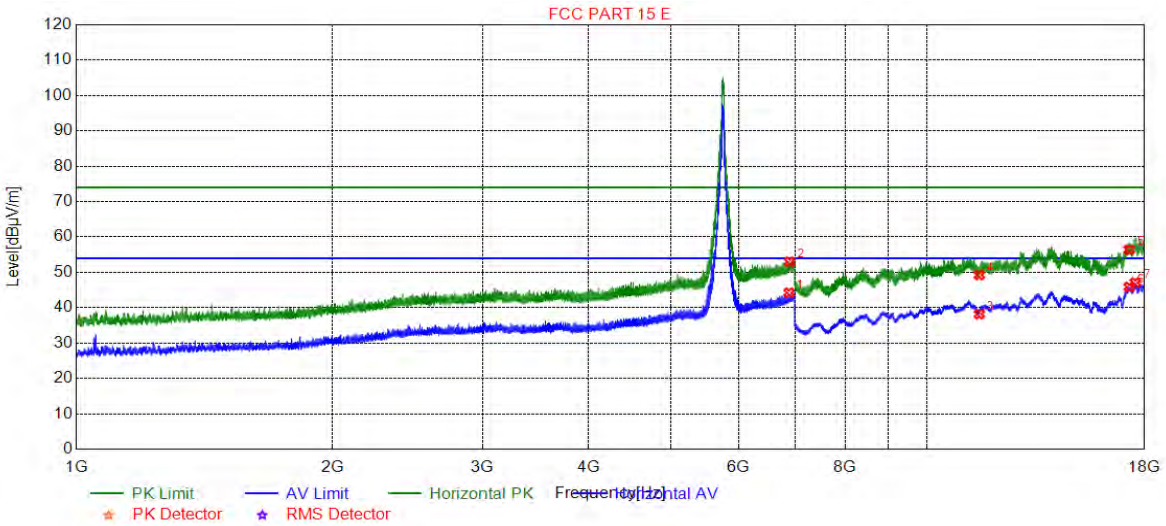
4.8.2.107 11AC40_151 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6879.3940	44.24	12.32	54.00	9.76	150	1	Horizontal
2	6890.7945	53.01	12.37	74.00	20.99	150	313	Horizontal
3	11510.0000	38.15	-5.50	54.00	15.85	150	1	Horizontal
4	11510.0000	49.24	-5.50	74.00	24.76	150	342	Horizontal
5	17265.0000	56.43	-1.33	74.00	17.57	150	342	Horizontal
6	17265.0000	45.86	-1.33	54.00	8.14	150	24	Horizontal
7	17553.3777	47.12	1.03	54.00	6.88	150	198	Horizontal

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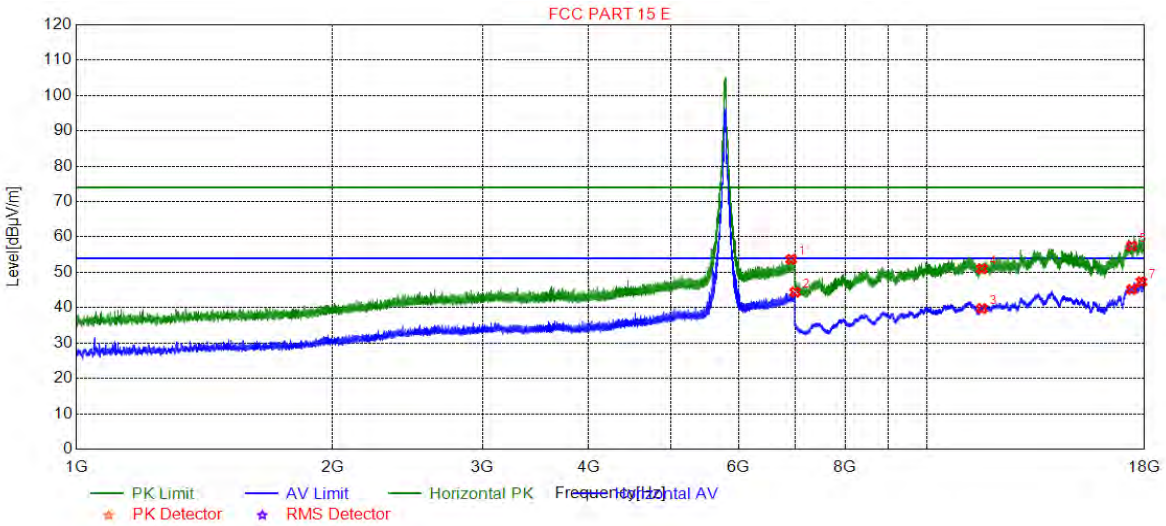
4.8.2.108 11AC40_159 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916.5958	53.68	12.46	74.00	20.32	150	256	Horizontal
2	6992.4996	44.41	12.74	54.00	9.59	150	113	Horizontal
3	11590.0000	39.77	-3.32	54.00	14.23	150	225	Horizontal
4	11590.0000	51.00	-3.32	74.00	23.00	150	225	Horizontal
5	17385.0000	57.46	-1.02	74.00	16.54	150	252	Horizontal
6	17385.0000	45.16	-1.02	54.00	8.84	150	252	Horizontal
7	17843.2422	47.29	-0.92	54.00	6.71	150	83	Horizontal

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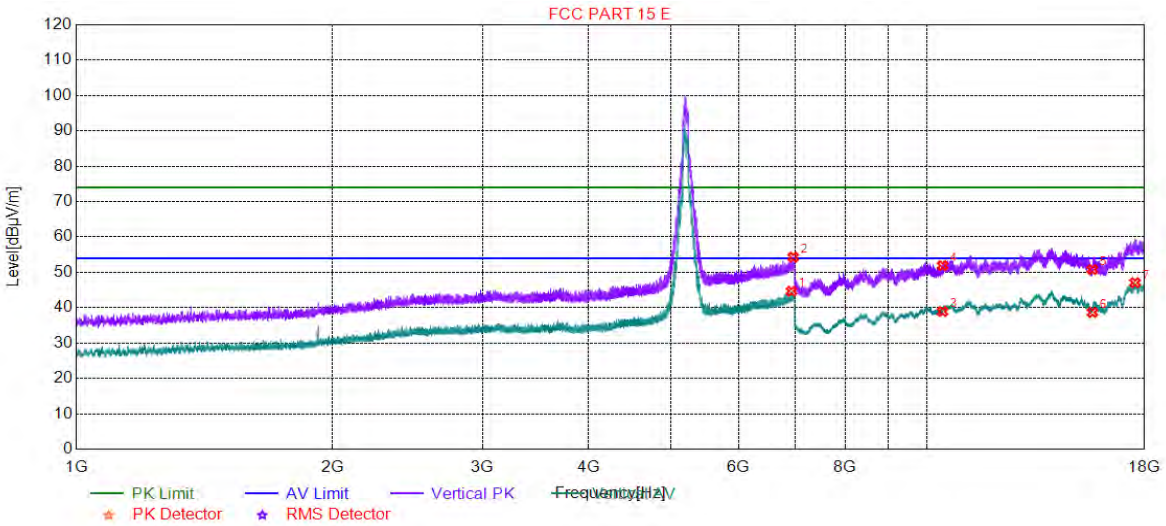
4.8.2.109 11AC80_42 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6923.1962	44.66	12.49	54.00	9.34	150	75	Vertical
2	6955.2978	54.29	12.60	74.00	19.71	150	46	Vertical
3	10420.0000	38.93	-5.14	54.00	15.07	150	131	Vertical
4	10420.0000	51.91	-5.14	74.00	22.09	150	300	Vertical
5	15630.0000	50.78	-4.14	74.00	23.22	150	103	Vertical
6	15630.0000	38.66	-4.14	54.00	15.34	150	131	Vertical
7	17540.7270	47.08	0.87	54.00	6.92	150	355	Vertical

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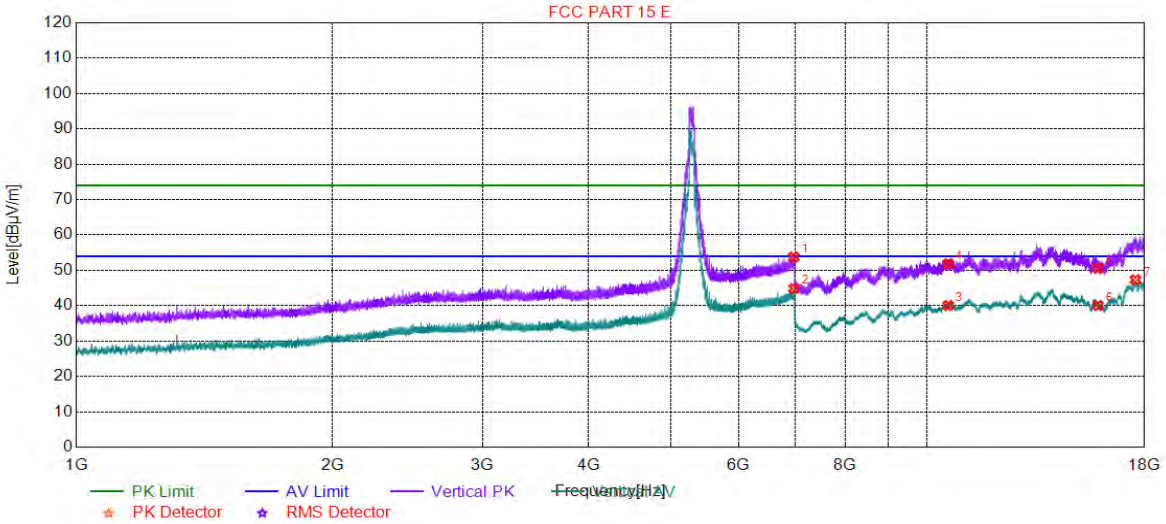
4.8.2.110 11AC80_58 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6967.5984	53.77	12.65	74.00	20.23	150	134	Vertical
2	6974.4987	44.89	12.68	54.00	9.11	150	359	Vertical
3	10580.0000	40.04	-4.65	54.00	13.96	150	139	Vertical
4	10580.0000	51.85	-4.65	74.00	22.15	150	336	Vertical
5	15870.0000	50.56	-3.31	74.00	23.44	150	308	Vertical
6	15870.0000	40.05	-3.31	54.00	13.95	150	308	Vertical
7	17557.7779	47.33	1.09	54.00	6.67	150	47	Vertical

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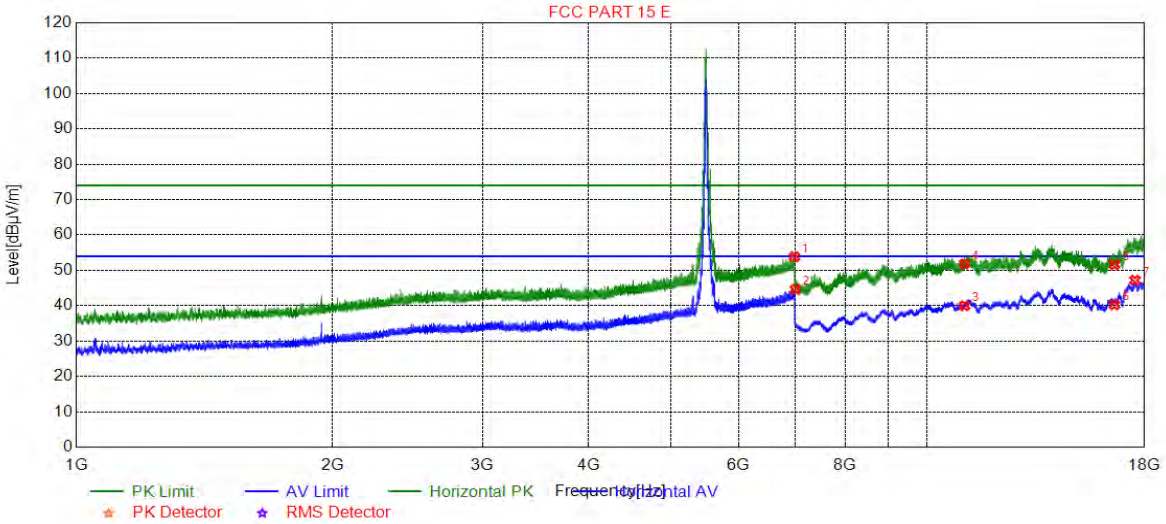
4.8.2.111 11AC80_106 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6978.3989	53.85	12.69	74.00	20.15	150	56	Horizontal
2	6996.6998	44.63	12.76	54.00	9.37	150	56	Horizontal
3	11060.0000	39.98	-3.73	54.00	14.02	150	138	Horizontal
4	11060.0000	51.83	-3.73	74.00	22.17	150	286	Horizontal
5	16590.0000	51.61	-4.27	74.00	22.39	150	2	Horizontal
6	16590.0000	40.25	-4.27	54.00	13.75	150	81	Horizontal
7	17534.6767	47.22	0.79	54.00	6.78	150	226	Horizontal

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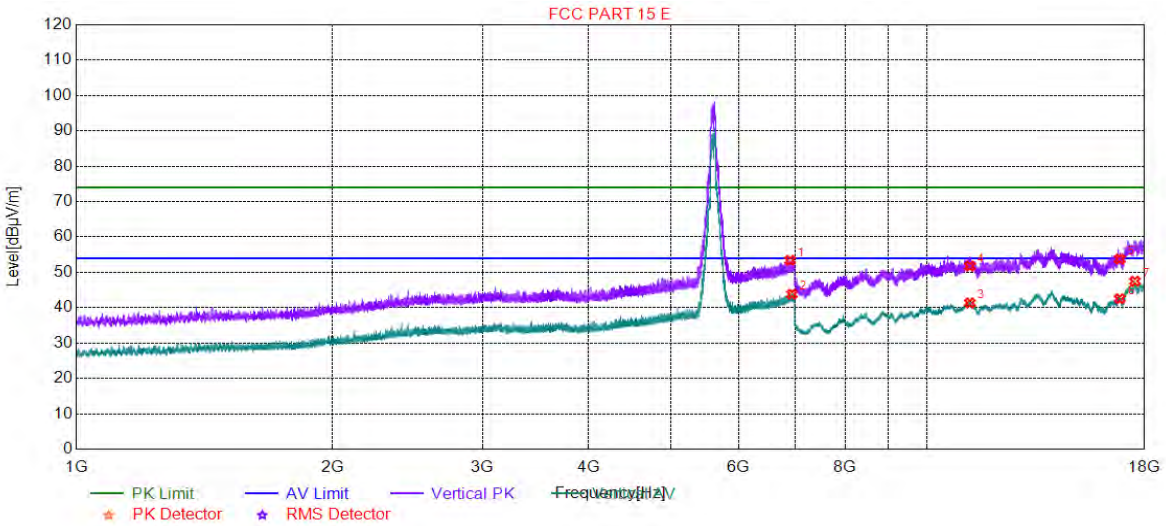
4.8.2.112 11AC80_122 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6897.0949	53.39	12.39	74.00	20.61	150	190	Vertical
2	6932.7966	43.84	12.52	54.00	10.16	150	248	Vertical
3	11220.0000	41.33	-3.73	54.00	12.67	150	356	Vertical
4	11220.0000	51.75	-3.73	74.00	22.25	150	245	Vertical
5	16830.0000	53.77	-2.15	74.00	20.23	150	216	Vertical
6	16830.0000	42.53	-2.15	54.00	11.47	150	46	Vertical
7	17535.7768	47.51	0.81	54.00	6.49	150	188	Vertical

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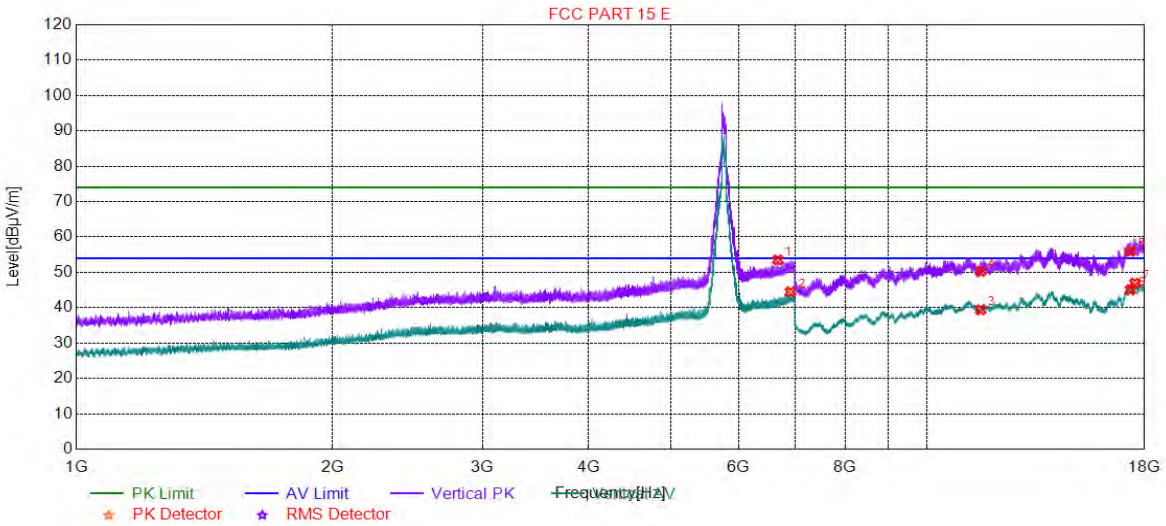
4.8.2.113 11AC80_155 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6672.0836	53.52	11.59	74.00	20.48	150	304	Vertical
2	6904.5952	44.49	12.42	54.00	9.51	150	161	Vertical
3	11550.0000	39.43	-4.41	54.00	14.57	150	188	Vertical
4	11550.0000	50.25	-4.41	74.00	23.75	150	160	Vertical
5	17325.0000	55.94	-1.12	74.00	18.06	150	104	Vertical
6	17325.0000	45.03	-1.12	54.00	8.97	150	217	Vertical
7	17529.1765	46.98	0.72	54.00	7.02	150	188	Vertical

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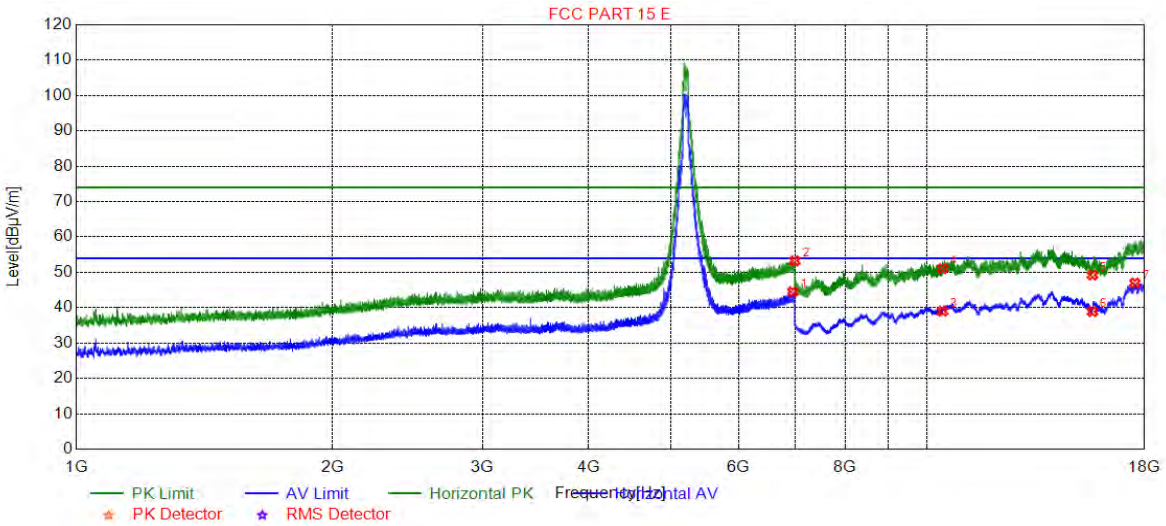
4.8.2.114 11AC80_42 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6948.3974	44.48	12.58	54.00	9.52	150	285	Horizontal
2	6986.4993	53.24	12.72	74.00	20.76	150	199	Horizontal
3	10420.0000	39.03	-5.14	54.00	14.97	150	31	Horizontal
4	10420.0000	51.07	-5.14	74.00	22.93	150	257	Horizontal
5	15630.0000	49.26	-4.14	74.00	24.74	150	144	Horizontal
6	15630.0000	38.93	-4.14	54.00	15.07	150	144	Horizontal
7	17533.0267	46.99	0.77	54.00	7.01	150	144	Horizontal

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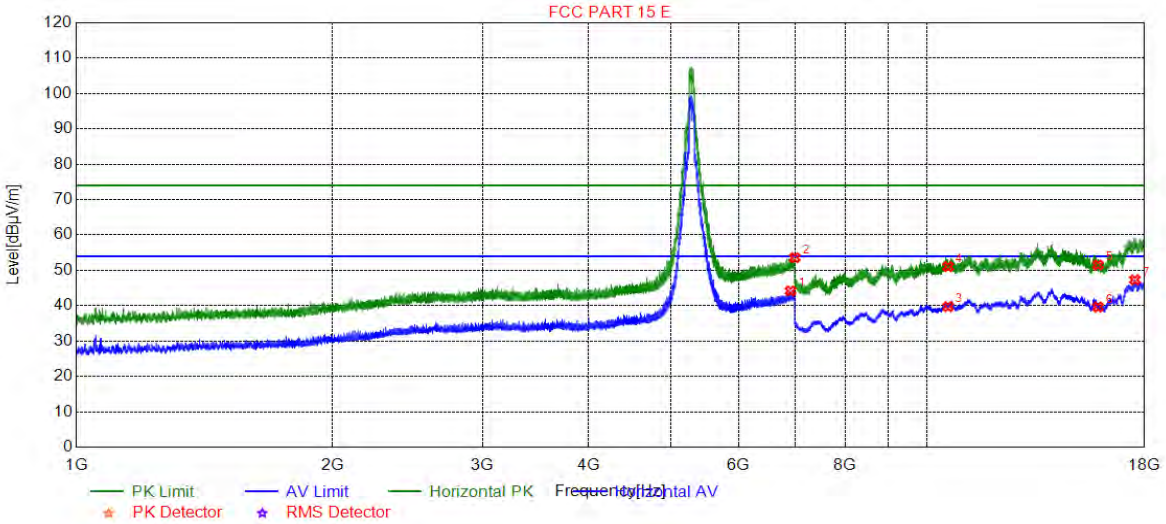
4.8.2.115 11AC80_58 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6904.5952	44.18	12.42	54.00	9.82	150	112	Horizontal
2	6984.6992	53.58	12.71	74.00	20.42	150	228	Horizontal
3	10580.0000	39.73	-4.65	54.00	14.27	150	56	Horizontal
4	10580.0000	51.03	-4.65	74.00	22.97	150	2	Horizontal
5	15870.0000	51.51	-3.31	74.00	22.49	150	28	Horizontal
6	15870.0000	39.63	-3.31	54.00	14.37	150	28	Horizontal
7	17531.9266	47.31	0.76	54.00	6.69	150	200	Horizontal

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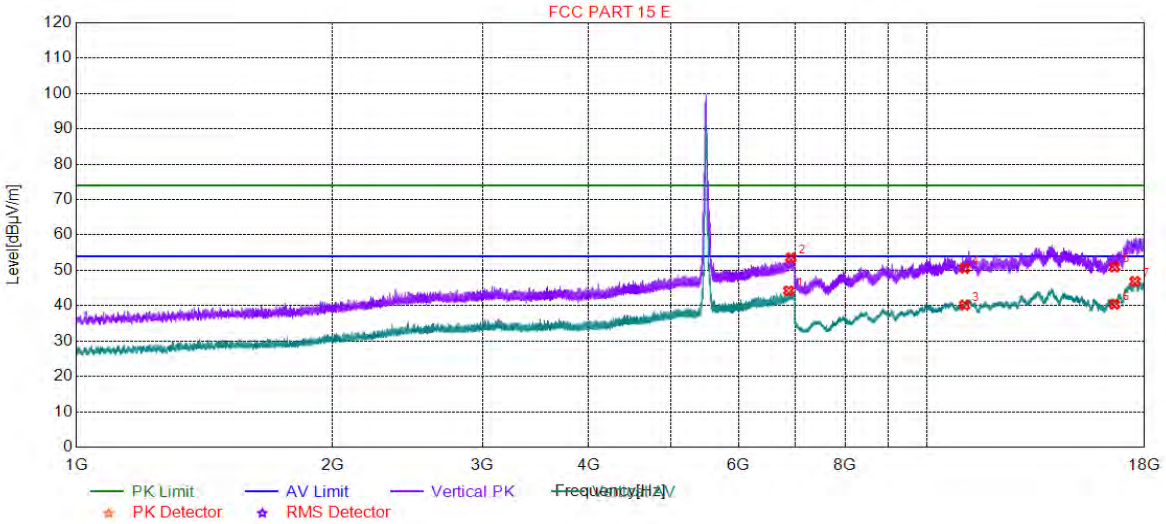
4.8.2.116 11AC80_106 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6871.2936	44.21	12.29	54.00	9.79	150	104	Vertical
2	6910.8955	53.57	12.44	74.00	20.43	150	358	Vertical
3	11060.0000	40.18	-3.73	54.00	13.82	150	47	Vertical
4	11060.0000	50.61	-3.73	74.00	23.39	150	160	Vertical
5	16590.0000	50.95	-4.27	74.00	23.05	150	18	Vertical
6	16590.0000	40.42	-4.27	54.00	13.58	150	18	Vertical
7	17535.2268	46.86	0.80	54.00	7.14	150	301	Vertical

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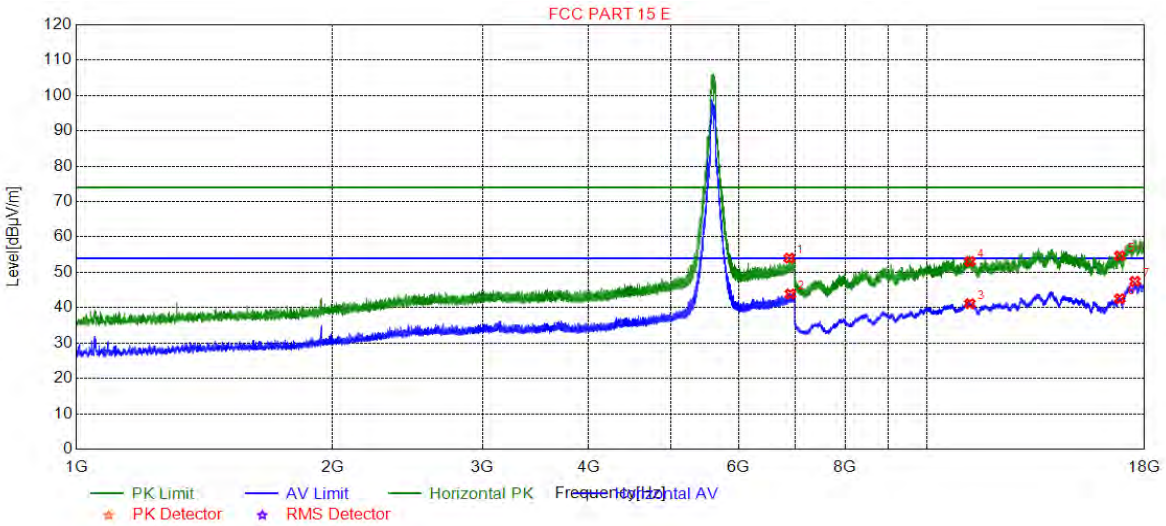
4.8.2.117 11AC80_122 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6883.2942	54.00	12.34	74.00	20.00	150	56	Horizontal
2	6902.1951	43.89	12.41	54.00	10.11	150	56	Horizontal
3	11220.0000	41.13	-3.73	54.00	12.87	150	228	Horizontal
4	11220.0000	53.08	-3.73	74.00	20.92	150	59	Horizontal
5	16830.0000	54.67	-2.15	74.00	19.33	150	144	Horizontal
6	16830.0000	42.54	-2.15	54.00	11.46	150	313	Horizontal
7	17536.8768	47.45	0.82	54.00	6.55	150	172	Horizontal

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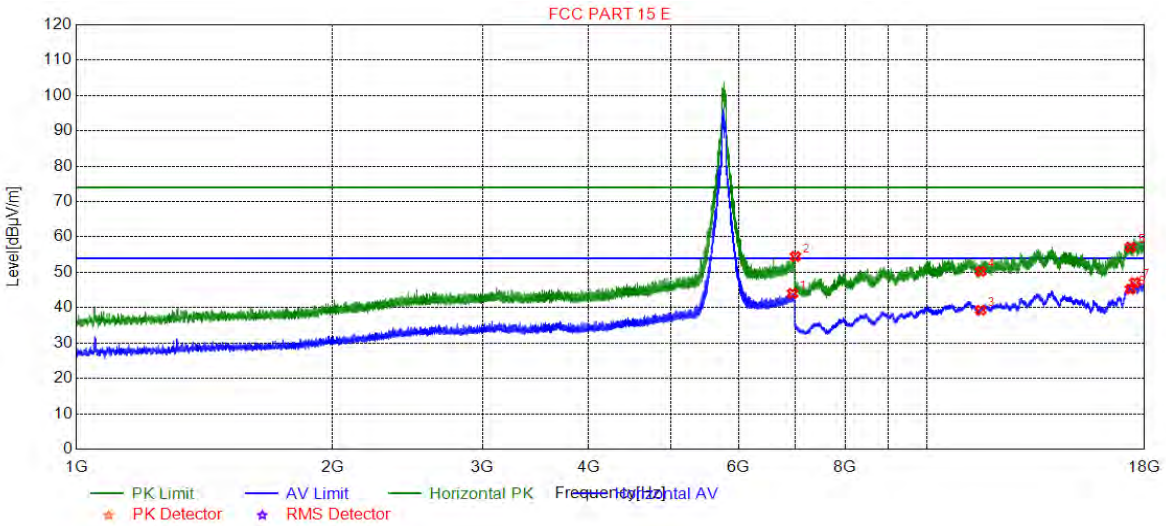
4.8.2.118 11AC80_155 ANT 1_Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6942.6971	44.04	12.56	54.00	9.96	150	112	Horizontal
2	6998.1999	54.47	12.76	74.00	19.53	150	198	Horizontal
3	11550.0000	39.29	-4.41	54.00	14.71	150	60	Horizontal
4	11550.0000	50.26	-4.41	74.00	23.74	150	60	Horizontal
5	17325.0000	57.11	-1.12	74.00	16.89	150	201	Horizontal
6	17325.0000	45.24	-1.12	54.00	8.76	150	201	Horizontal
7	17530.2765	47.12	0.74	54.00	6.88	150	229	Horizontal

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.

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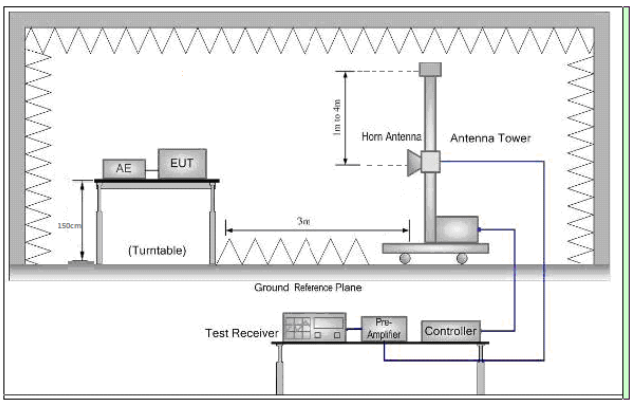
4.9 Restricted bands around fundamental frequency

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:			



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Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 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. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 g. Test the EUT in the outermost channels. 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. 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); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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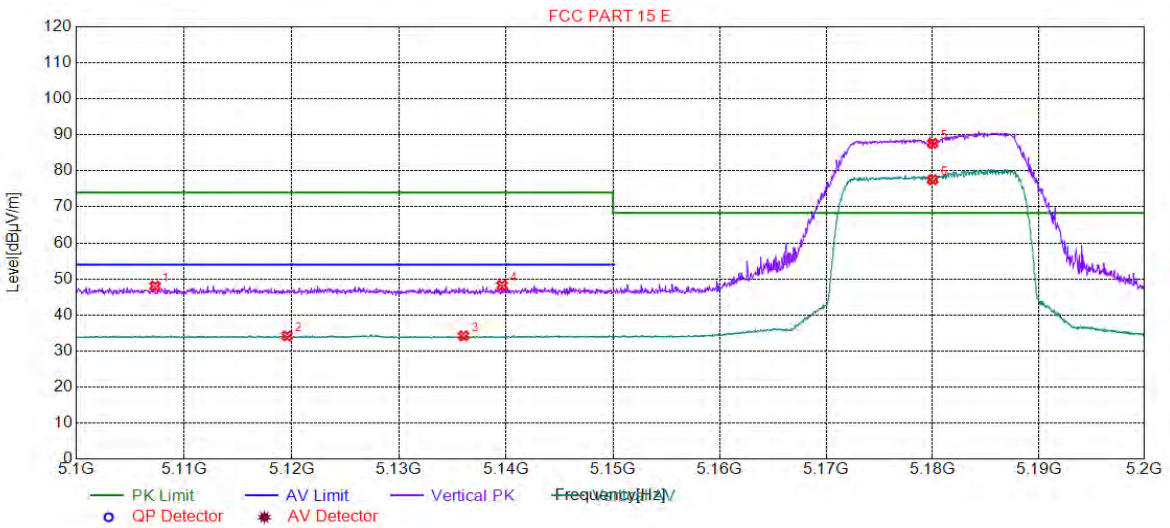
4.9.1 Test plots

4.9.1.1 11A20_36 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5107.3037	48.02	7.48	74.00	25.98	150	205	Vertical
2	5119.5598	34.19	7.50	54.00	19.81	150	14	Vertical
3	5136.0180	34.21	7.53	54.00	19.79	150	250	Vertical
4	5139.6198	48.23	7.54	74.00	25.77	150	314	Vertical
5	5180.0000	87.63	7.61	68.30	-19.33	150	238	Vertical
6	5180.0000	77.55	7.61	0.00	-77.55	150	242	Vertical

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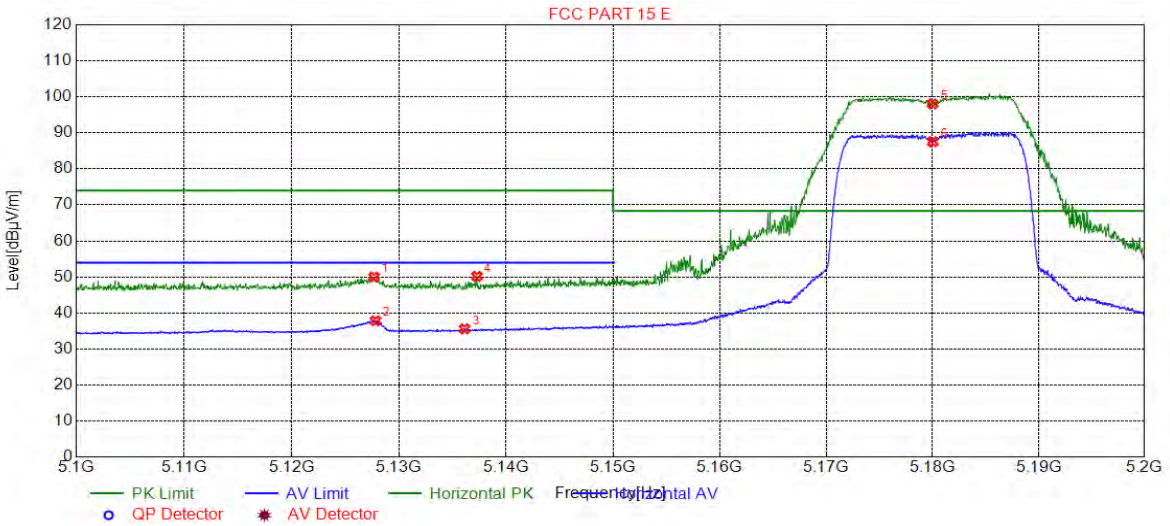
4.9.1.2 11A20_36 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.6638	50.01	7.52	74.00	23.99	150	123	Horizontal
2	5127.8139	37.83	7.52	54.00	16.17	150	123	Horizontal
3	5136.1181	35.61	7.53	54.00	18.39	150	293	Horizontal
4	5137.2686	50.16	7.53	74.00	23.84	150	130	Horizontal
5	5180.0000	98.05	7.61	68.30	-29.75	150	290	Horizontal
6	5180.0000	87.54	7.61	0.00	-87.54	150	119	Horizontal

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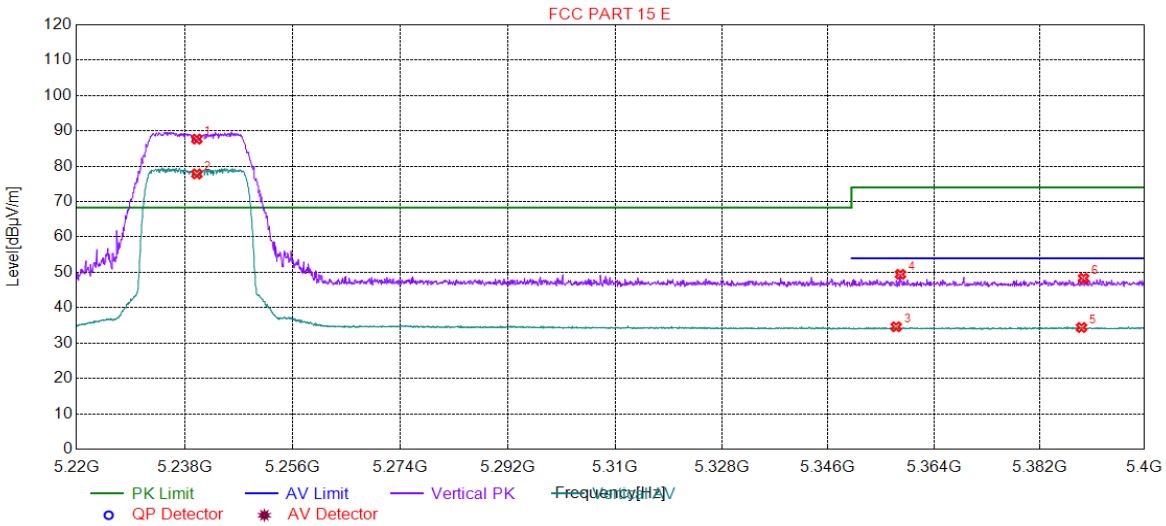
4.9.1.3 11A20_48 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	87.67	7.68	68.30	-19.37	150	143	Vertical
2	5240.0000	77.82	7.68	0.00	-77.82	150	147	Vertical
3	5357.5888	34.61	7.86	54.00	19.39	150	190	Vertical
4	5358.3092	49.44	7.86	74.00	24.56	150	190	Vertical
5	5389.1946	34.41	7.92	54.00	19.59	150	16	Vertical
6	5389.5548	48.31	7.92	74.00	25.69	150	45	Vertical

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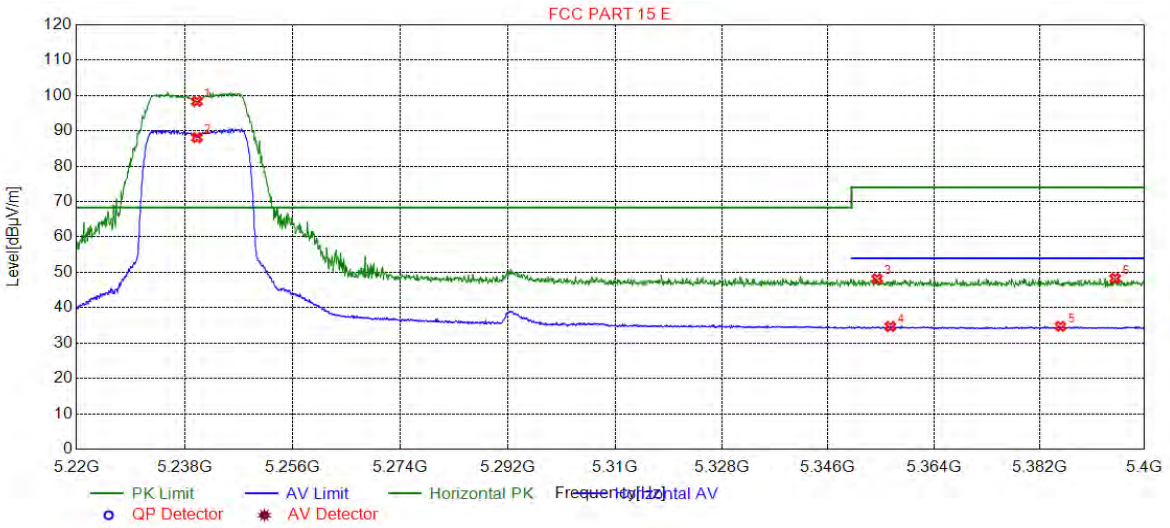
4.9.1.4 11A20_48 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	98.35	7.68	68.30	-30.05	150	118	Horizontal
2	5240.0000	88.09	7.68	0.00	-88.09	150	123	Horizontal
3	5354.3472	48.21	7.85	74.00	25.79	150	41	Horizontal
4	5356.5983	34.67	7.85	54.00	19.33	150	118	Horizontal
5	5385.5928	34.73	7.91	54.00	19.27	150	320	Horizontal
6	5394.9575	48.31	7.93	74.00	25.69	150	31	Horizontal

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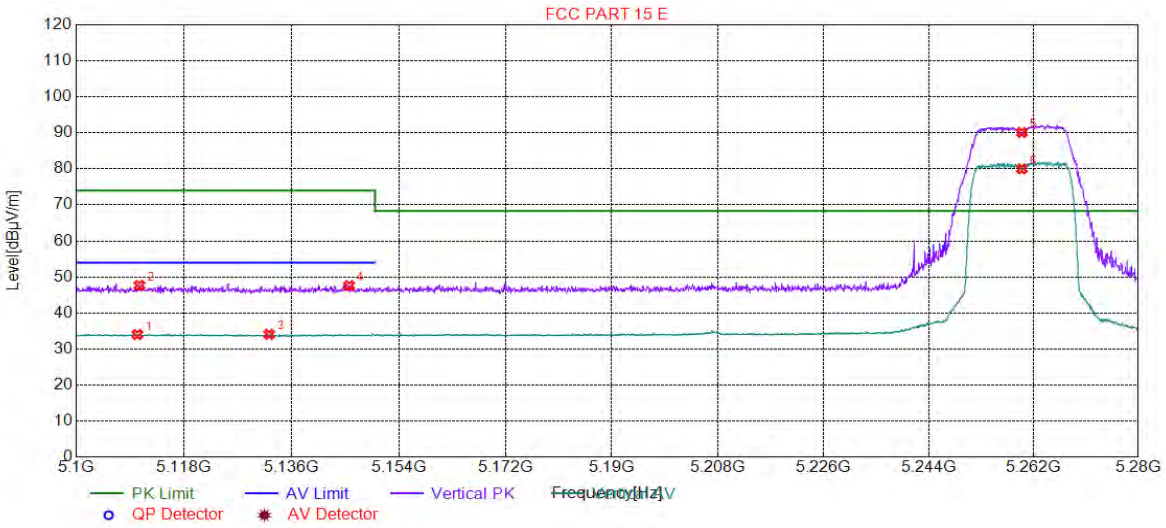
4.9.1.5 11A20_52 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5110.1751	34.02	7.49	54.00	19.98	150	301	Vertical
2	5110.5353	47.67	7.49	74.00	26.33	150	34	Vertical
3	5132.2361	34.08	7.52	54.00	19.92	150	235	Vertical
4	5145.6528	47.60	7.55	74.00	26.40	150	62	Vertical
5	5260.0000	90.11	7.70	68.30	-21.81	150	158	Vertical
6	5260.0000	80.01	7.70	0.00	-80.01	150	158	Vertical

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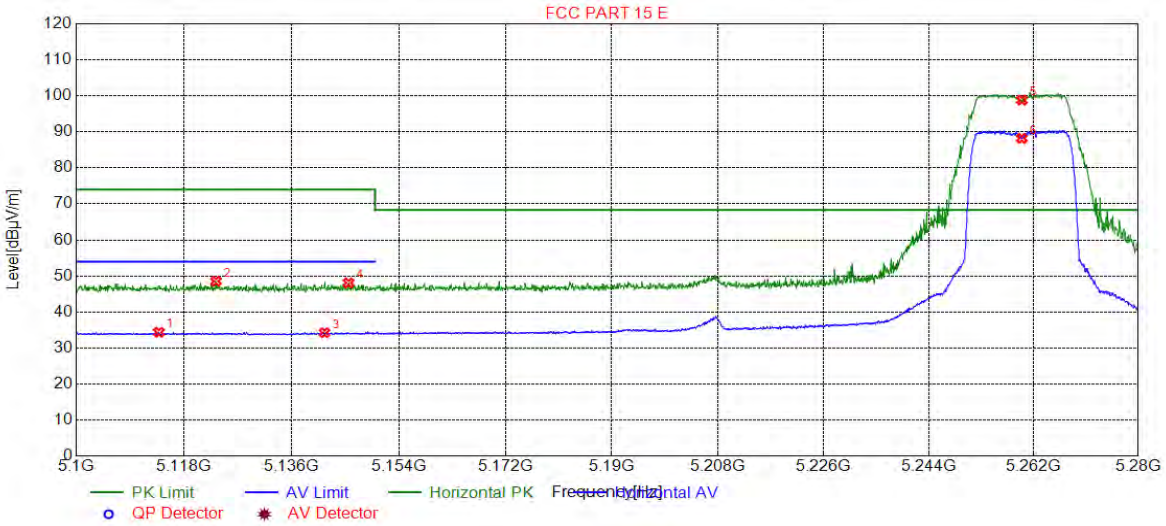
4.9.1.6 11A20_52 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.7769	34.38	7.49	54.00	19.62	150	110	Horizontal
2	5123.3217	48.55	7.51	74.00	25.45	150	16	Horizontal
3	5141.5108	34.25	7.54	54.00	19.75	150	63	Horizontal
4	5145.5628	48.07	7.55	74.00	25.93	150	199	Horizontal
5	5260.0000	98.82	7.70	68.30	-30.52	150	124	Horizontal
6	5260.0000	88.19	7.70	0.00	-88.19	150	110	Horizontal

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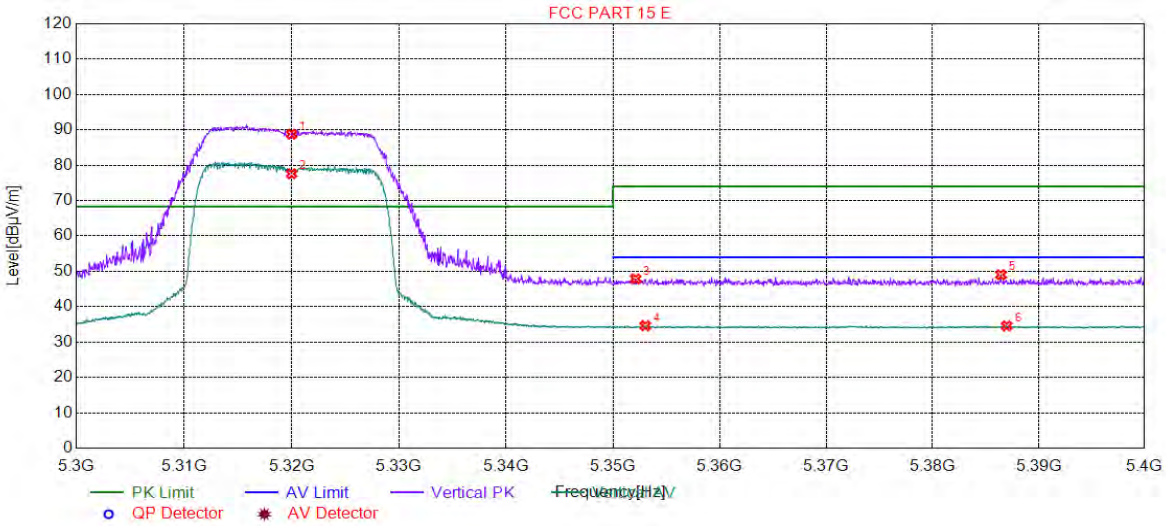
11A20_64 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	88.79	7.78	68.30	-20.49	150	261	Vertical
2	5320.0000	77.58	7.78	0.00	-77.58	150	267	Vertical
3	5352.1261	47.88	7.84	74.00	26.12	150	68	Vertical
4	5353.0265	34.63	7.85	54.00	19.37	150	158	Vertical
5	5386.4432	49.04	7.91	74.00	24.96	150	316	Vertical
6	5386.9935	34.57	7.91	54.00	19.43	150	209	Vertical

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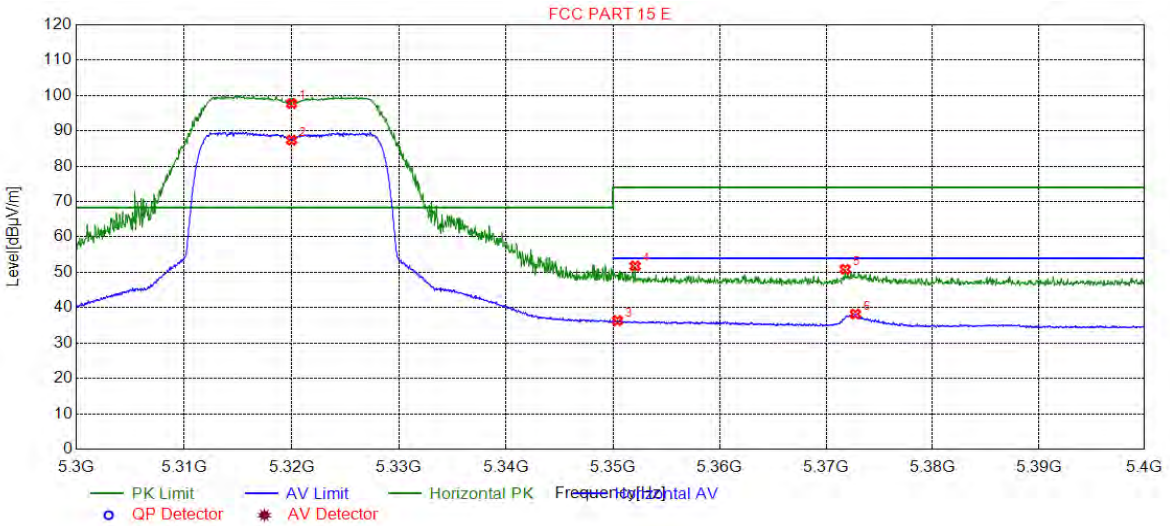
4.9.1.7 11A20_64 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	97.73	7.78	68.30	-29.43	150	124	Horizontal
2	5320.0000	87.38	7.78	0.00	-87.38	150	124	Horizontal
3	5350.4252	36.34	7.84	54.00	17.66	150	110	Horizontal
4	5352.0760	51.77	7.84	74.00	22.23	150	110	Horizontal
5	5371.7859	50.88	7.88	74.00	23.12	150	110	Horizontal
6	5372.7364	38.20	7.89	54.00	15.80	150	115	Horizontal

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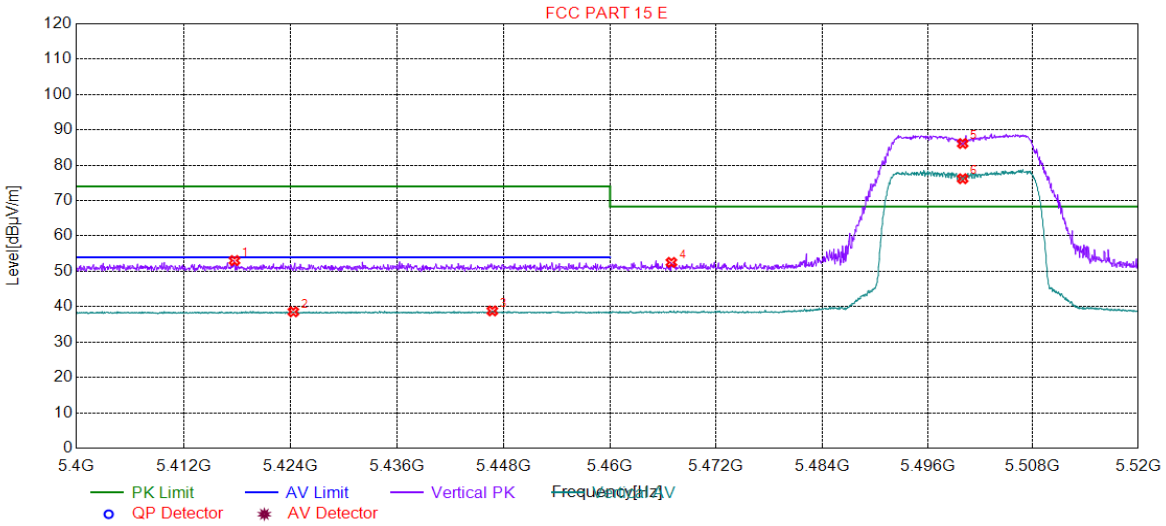
4.9.1.8 11A20_100 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5417.7089	53.05	7.97	74.00	20.95	150	139	Vertical
2	5424.3122	38.57	7.98	54.00	15.43	150	245	Vertical
3	5446.7034	38.82	8.01	54.00	15.18	150	265	Vertical
4	5466.9335	52.53	8.05	68.30	15.77	150	234	Vertical
5	5500.0000	86.15	8.10	68.30	-17.85	150	169	Vertical
6	5500.0000	76.20	8.10	0.00	-76.20	150	169	Vertical

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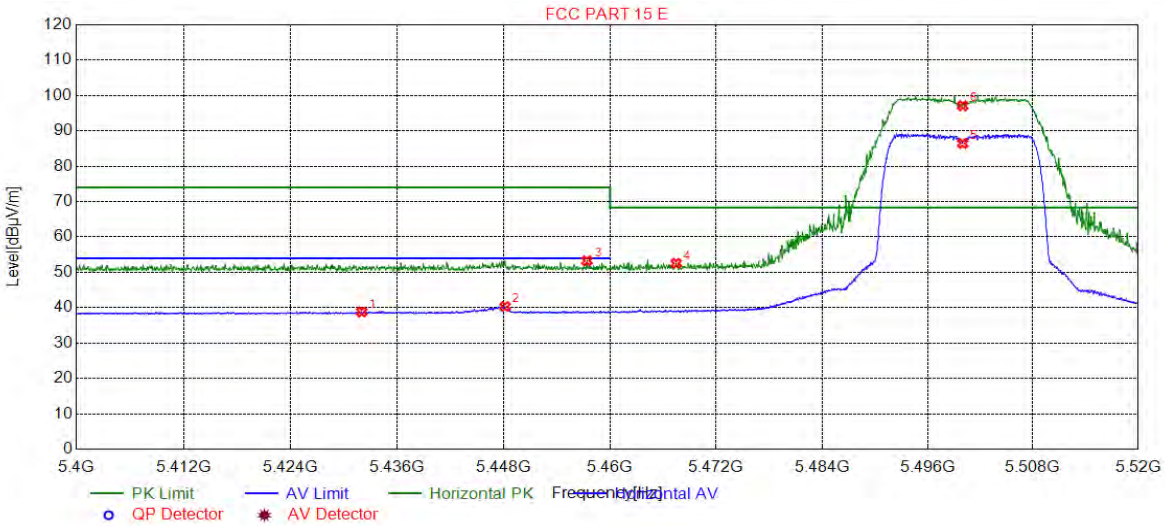
4.9.1.9 11A20_100 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5431.9960	38.82	7.99	54.00	15.18	150	117	Horizontal
2	5448.1441	40.35	8.02	54.00	13.65	150	117	Horizontal
3	5457.3887	53.28	8.03	74.00	20.72	150	132	Horizontal
4	5467.4737	52.56	8.05	68.30	15.74	150	312	Horizontal
5	5500.0000	86.44	8.10	0.00	-86.44	150	125	Horizontal
6	5500.0000	97.10	8.10	68.30	-28.80	150	117	Horizontal

4.9.1.10 11A20_140 ANT 1_Vertical

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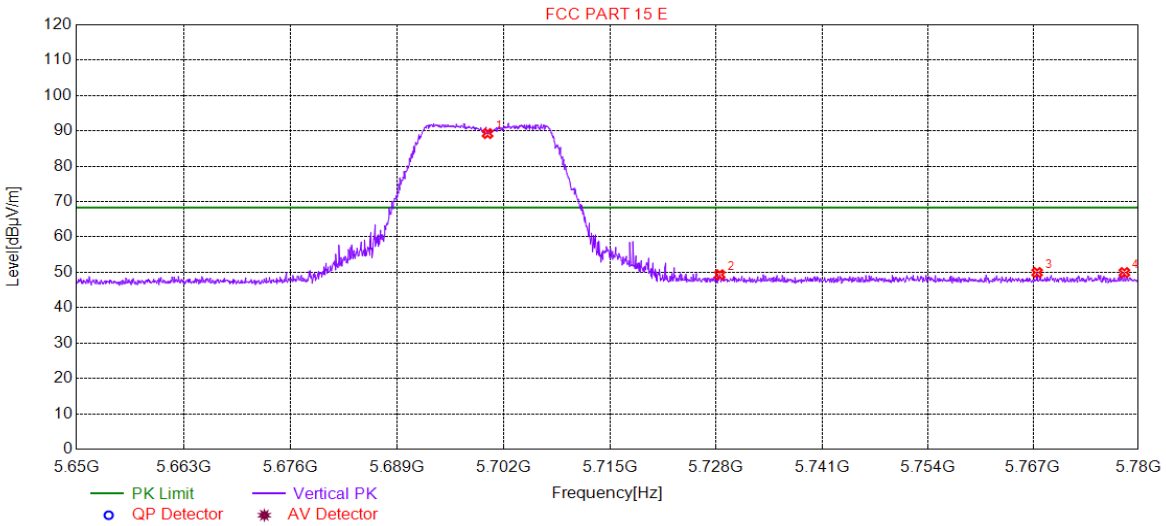

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	89.25	8.51	68.30	-20.95	150	178	Vertical
2	5728.4292	49.33	8.58	68.30	18.97	150	178	Vertical
3	5767.5138	49.96	8.67	68.30	18.34	150	40	Vertical
4	5778.3092	49.94	8.69	68.30	18.36	150	327	Vertical

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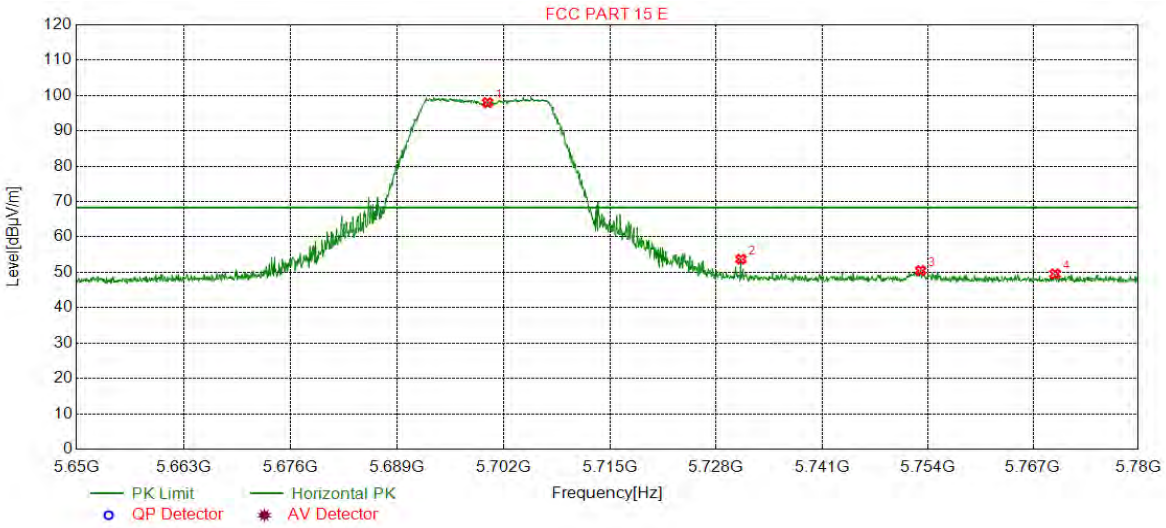
4.9.1.11 11A20_140 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	98.00	8.51	68.30	-29.70	150	118	Horizontal
2	5731.0305	53.73	8.58	68.30	14.57	150	115	Horizontal
3	5753.1416	50.50	8.63	68.30	17.80	150	118	Horizontal
4	5769.7249	49.58	8.67	68.30	18.72	150	176	Horizontal

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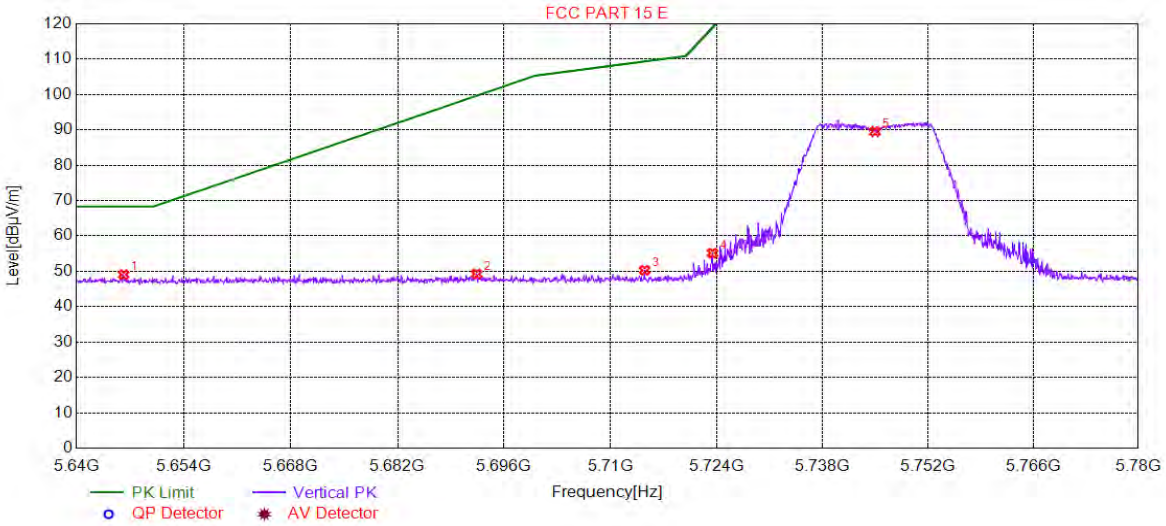
11A20_149 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.1631	49.04	8.42	68.30	19.26	150	346	Vertical
2	5692.3862	49.28	8.50	99.67	50.39	150	185	Vertical
3	5714.5173	50.32	8.54	109.36	59.04	150	188	Vertical
4	5723.4817	55.16	8.56	118.84	63.68	150	222	Vertical
5	5745.0000	89.53	8.61	0.00	-89.53	150	218	Vertical

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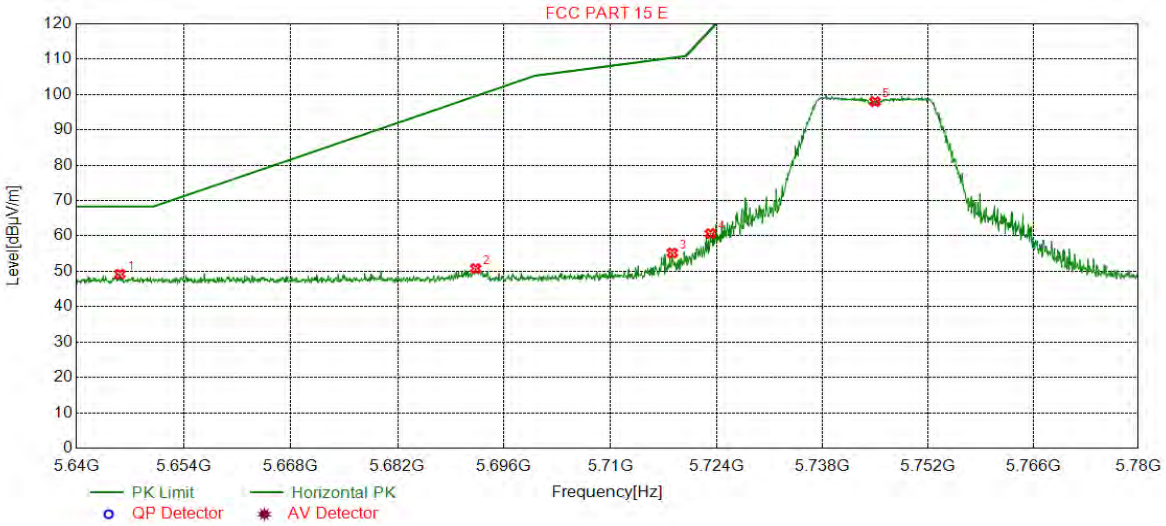
4.9.1.12 11A20_149 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.6728	49.23	8.42	68.30	19.07	150	185	Horizontal
2	5692.2461	50.79	8.50	99.56	48.77	150	288	Horizontal
3	5718.1591	55.20	8.55	110.38	55.18	150	111	Horizontal
4	5723.2016	60.68	8.56	118.20	57.52	150	111	Horizontal
5	5745.0000	97.96	8.61	0.00	-97.96	150	299	Horizontal

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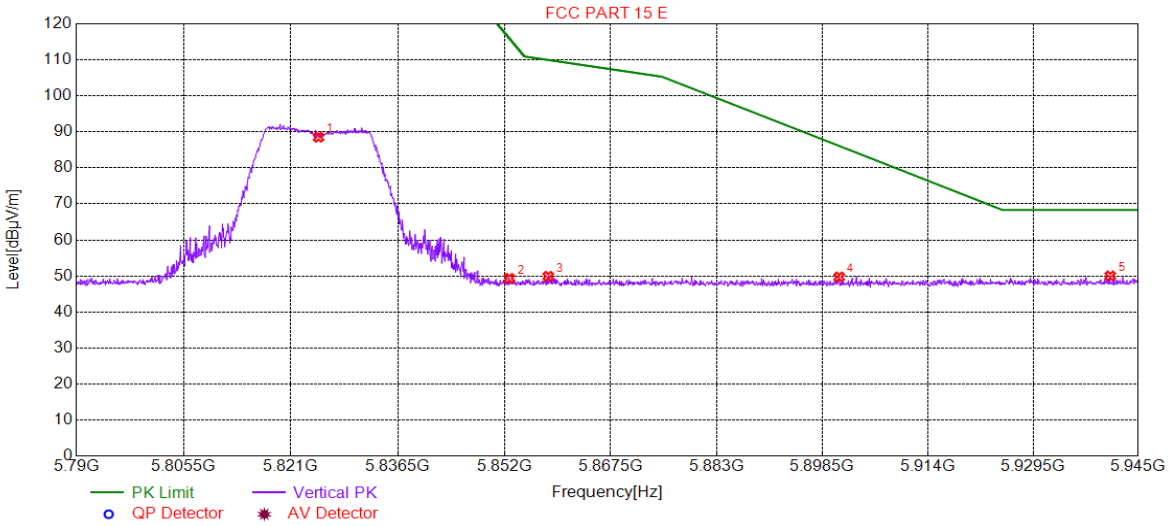
4.9.1.13 11A20_165 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	88.52	8.82	0.00	-88.52	150	68	Vertical
2	5852.7289	49.35	8.90	116.08	66.73	150	153	Vertical
3	5858.3892	49.91	8.92	109.95	60.04	150	125	Vertical
4	5900.9580	49.73	9.04	86.09	36.36	150	16	Vertical
5	5940.8904	50.02	9.16	68.30	18.28	150	252	Vertical

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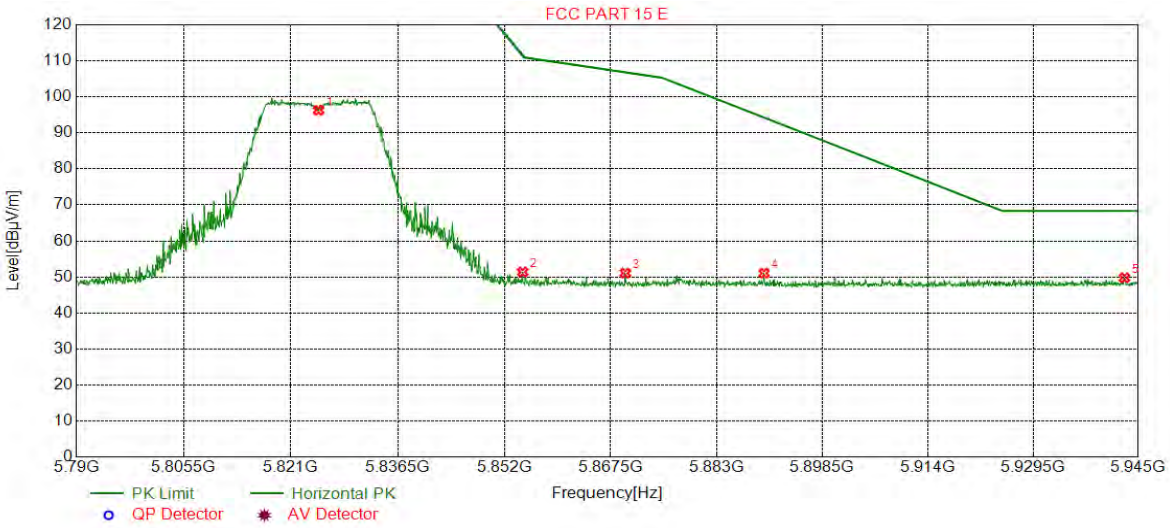
4.9.1.14 11A20_165 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	96.25	8.82	0.00	-96.25	150	319	Horizontal
2	5854.6673	51.36	8.90	111.66	60.30	150	315	Horizontal
3	5869.6323	51.08	8.95	106.80	55.72	150	344	Horizontal
4	5889.9475	51.05	9.01	94.24	43.19	150	23	Horizontal
5	5942.9840	49.76	9.17	68.30	18.54	150	34	Horizontal

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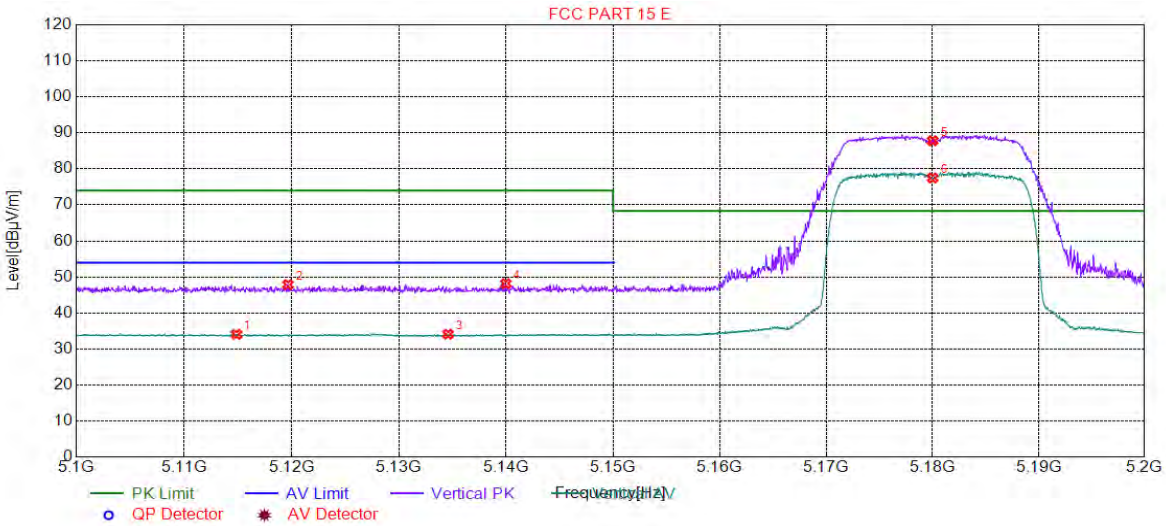
4.9.1.15 11N20_36 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.8574	34.07	7.50	54.00	19.93	150	310	Vertical
2	5119.6598	47.89	7.50	74.00	26.11	150	74	Vertical
3	5134.5673	34.13	7.53	54.00	19.87	150	276	Vertical
4	5139.9700	48.15	7.54	74.00	25.85	150	17	Vertical
5	5180.0000	87.82	7.61	68.30	-19.52	150	29	Vertical
6	5180.0000	77.48	7.61	0.00	-77.48	150	32	Vertical

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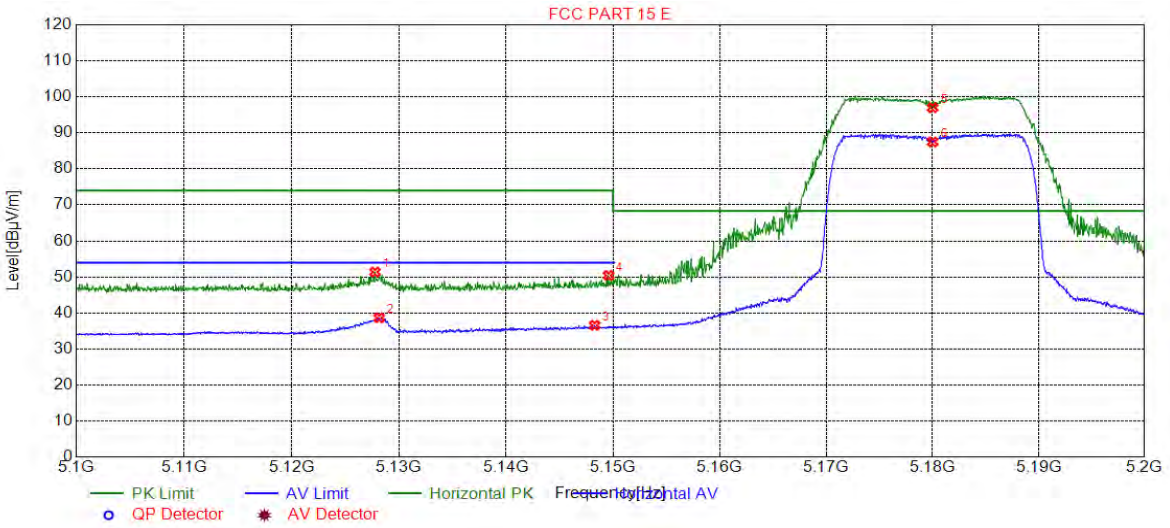
4.9.1.16 11N20_36 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.7639	51.38	7.52	74.00	22.62	150	335	Horizontal
2	5128.1641	38.67	7.52	54.00	15.33	150	335	Horizontal
3	5148.2741	36.59	7.55	54.00	17.41	150	330	Horizontal
4	5149.5748	50.42	7.55	74.00	23.58	150	335	Horizontal
5	5180.0000	97.00	7.61	68.30	-28.70	150	326	Horizontal
6	5180.0000	87.48	7.61	0.00	-87.48	150	326	Horizontal

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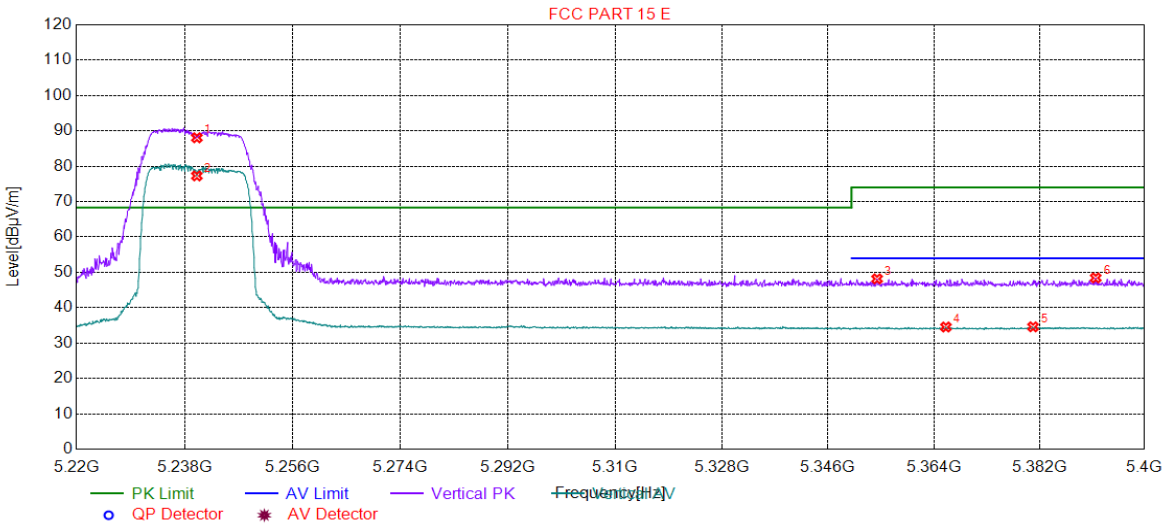
4.9.1.17 11N20_48 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	88.05	7.68	68.30	-19.75	150	205	Vertical
2	5240.0000	77.27	7.68	0.00	-77.27	150	201	Vertical
3	5354.3472	48.16	7.85	74.00	25.84	150	224	Vertical
4	5366.0530	34.55	7.87	54.00	19.45	150	315	Vertical
5	5380.9105	34.60	7.90	54.00	19.40	150	329	Vertical
6	5391.6258	48.43	7.92	74.00	25.57	150	25	Vertical

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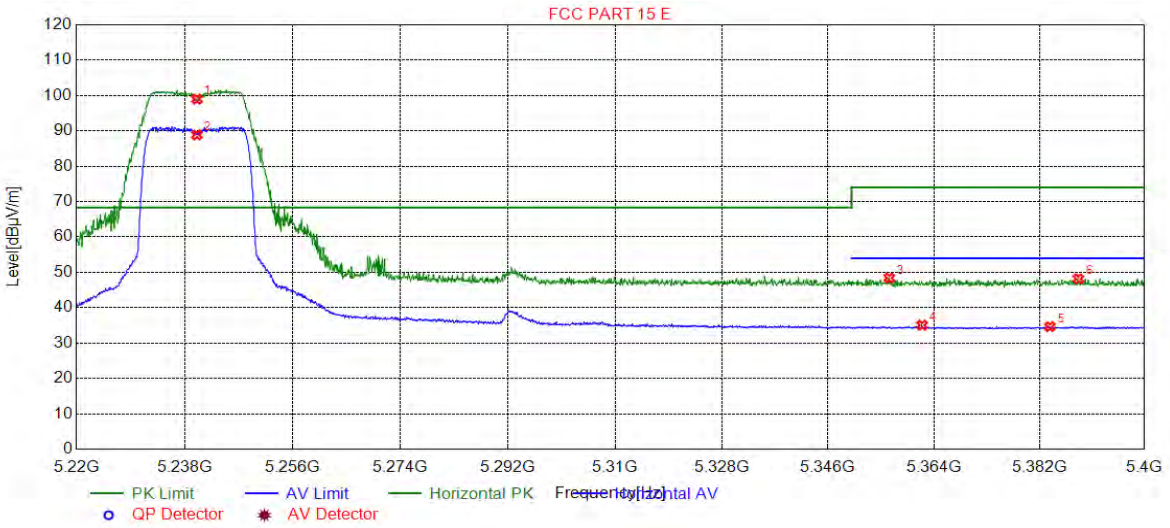
4.9.1.18 11N20_48 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.0000	98.98	7.68	68.30	-30.68	150	330	Horizontal
2	5240.0000	88.86	7.68	0.00	-88.86	150	335	Horizontal
3	5356.4182	48.40	7.85	74.00	25.60	150	0	Horizontal
4	5362.0010	35.07	7.86	54.00	18.93	150	326	Horizontal
5	5383.7919	34.66	7.91	54.00	19.34	150	145	Horizontal
6	5388.6543	48.19	7.92	74.00	25.81	150	264	Horizontal

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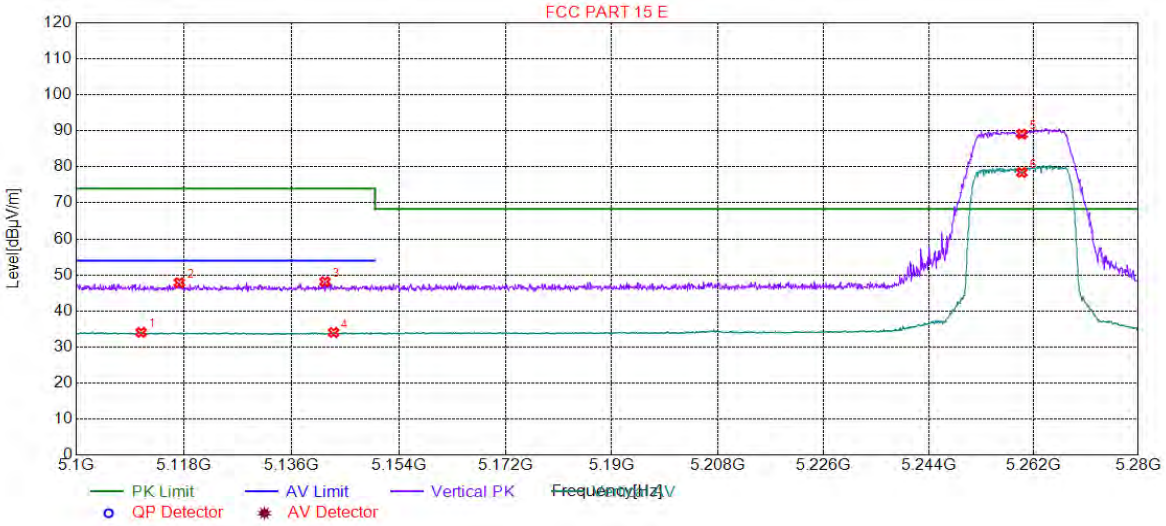
4.9.1.19 11N20_52 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5110.8054	34.05	7.49	54.00	19.95	150	182	Vertical
2	5117.1986	47.87	7.50	74.00	26.13	150	87	Vertical
3	5141.6008	48.13	7.54	74.00	25.87	150	20	Vertical
4	5143.0415	34.04	7.54	54.00	19.96	150	353	Vertical
5	5260.0000	89.10	7.70	68.30	-20.80	150	135	Vertical
6	5260.0000	78.45	7.70	0.00	-78.45	150	229	Vertical

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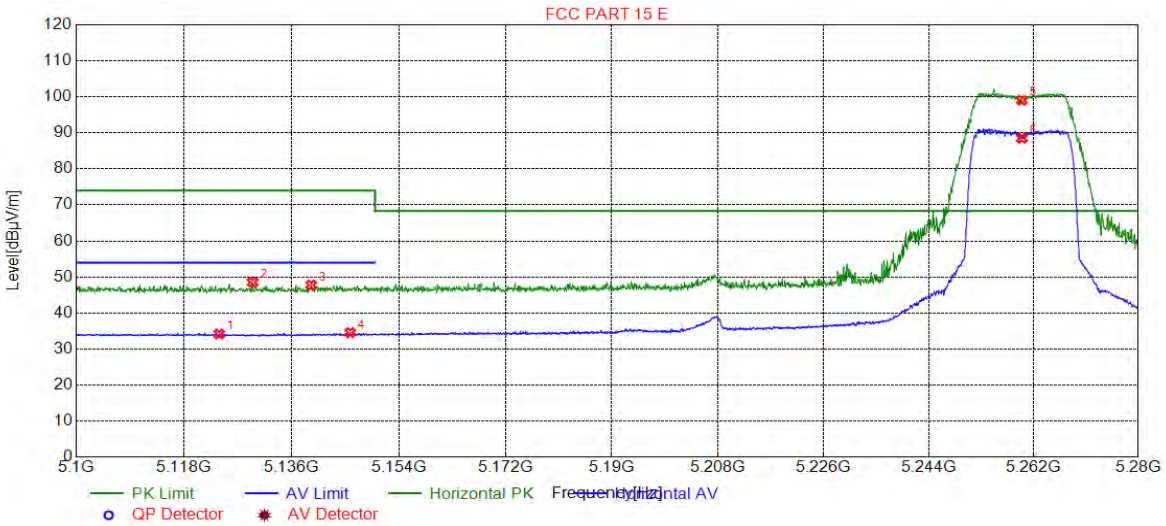
4.9.1.20 11N20_52 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.8619	34.14	7.51	54.00	19.86	150	36	Horizontal
2	5129.4447	48.53	7.52	74.00	25.47	150	80	Horizontal
3	5139.2596	47.77	7.54	74.00	26.23	150	103	Horizontal
4	5145.8329	34.55	7.55	54.00	19.45	150	335	Horizontal
5	5260.0000	99.06	7.70	68.30	-30.76	150	330	Horizontal
6	5260.0000	88.51	7.70	0.00	-88.51	150	335	Horizontal

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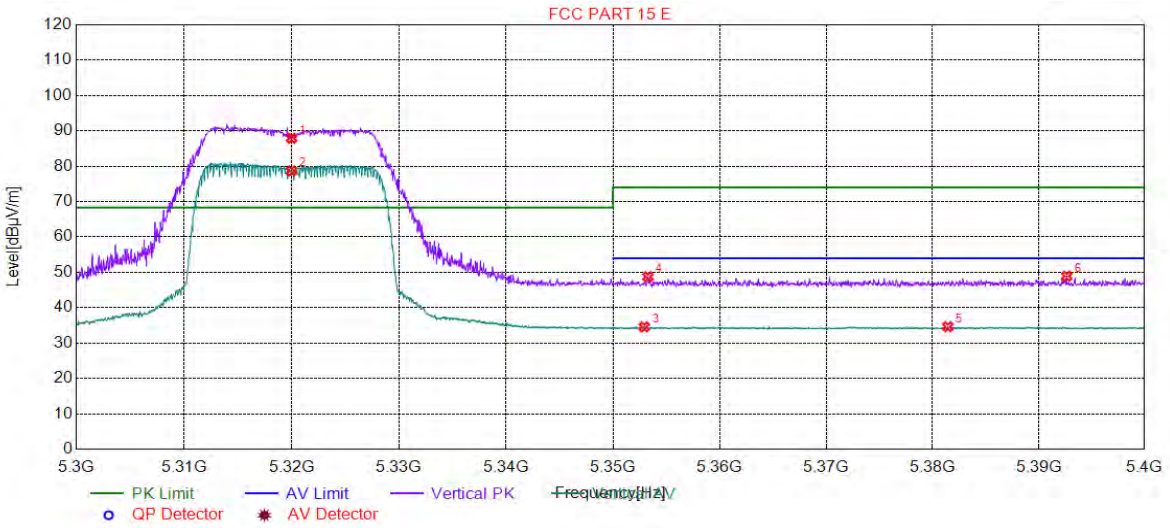
4.9.1.21 11N20_64 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	87.91	7.78	68.30	-19.61	150	139	Vertical
2	5320.0000	78.69	7.78	0.00	-78.69	150	134	Vertical
3	5352.9265	34.57	7.85	54.00	19.43	150	39	Vertical
4	5353.2766	48.76	7.85	74.00	25.24	150	25	Vertical
5	5381.4407	34.63	7.90	54.00	19.37	150	25	Vertical
6	5392.6463	48.92	7.93	74.00	25.08	150	39	Vertical

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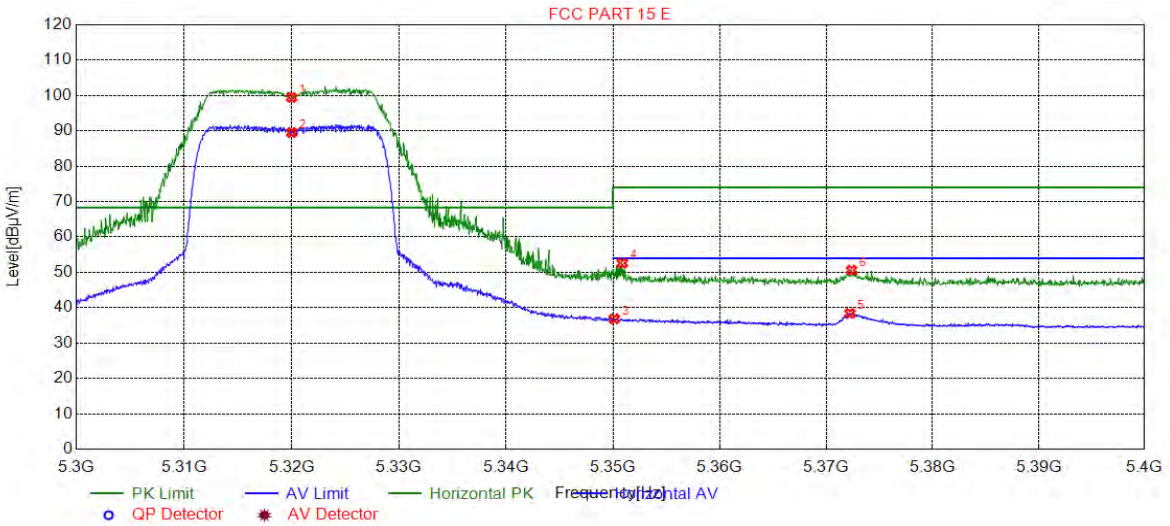
4.9.1.22 11N20_64 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	99.46	7.78	68.30	-31.16	150	330	Horizontal
2	5320.0000	89.53	7.78	0.00	-89.53	150	330	Horizontal
3	5350.1251	36.84	7.84	54.00	17.16	150	330	Horizontal
4	5350.8754	52.63	7.84	74.00	21.37	150	330	Horizontal
5	5372.2361	38.39	7.88	54.00	15.61	150	335	Horizontal
6	5372.3862	50.62	7.88	74.00	23.38	150	335	Horizontal

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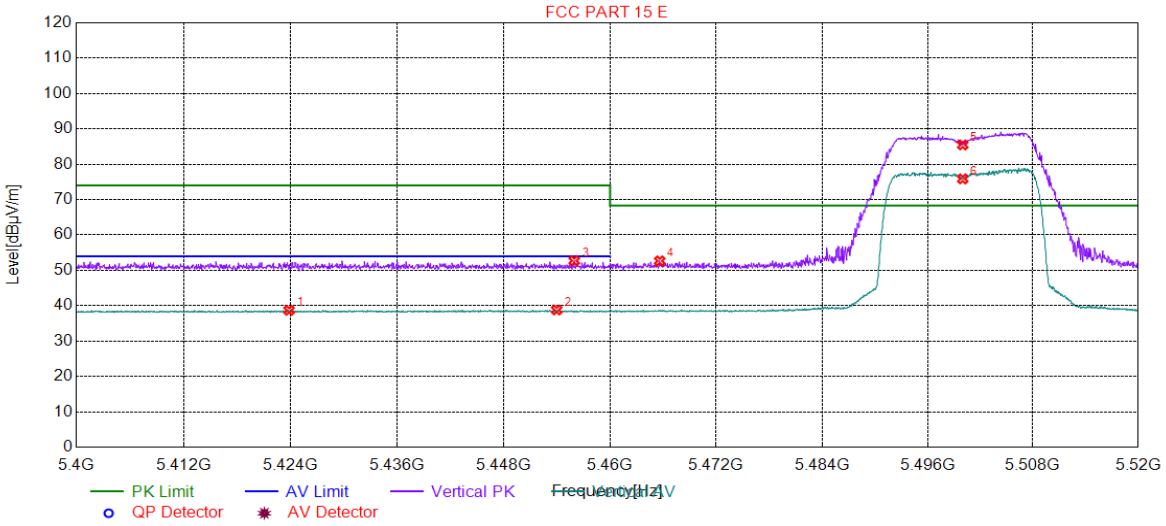
4.9.1.23 11N20_100 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5423.8319	38.70	7.98	54.00	15.30	150	213	Vertical
2	5453.9670	38.81	8.03	54.00	15.19	150	190	Vertical
3	5455.9480	52.72	8.03	74.00	21.28	150	163	Vertical
4	5465.6128	52.67	8.04	68.30	15.63	150	353	Vertical
5	5500.0000	85.47	8.10	68.30	-17.17	150	163	Vertical
6	5500.0000	75.87	8.10	0.00	-75.87	150	163	Vertical

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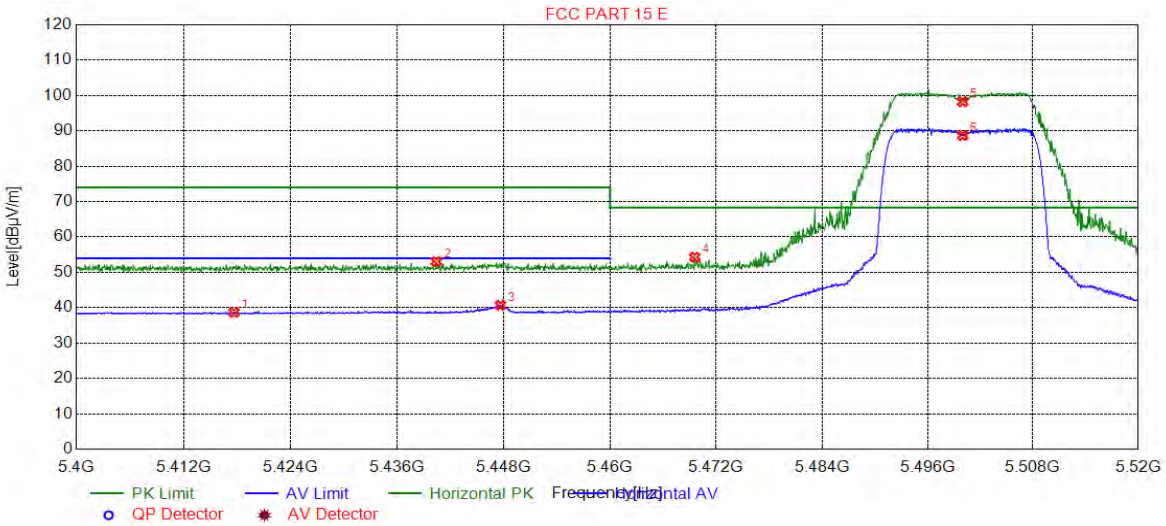
4.9.1.24 11N20_100 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5417.6488	38.68	7.97	54.00	15.32	150	331	Horizontal
2	5440.4002	53.06	8.00	74.00	20.94	150	225	Horizontal
3	5447.6038	40.72	8.02	54.00	13.28	150	331	Horizontal
4	5469.5748	54.30	8.05	68.30	14.00	150	331	Horizontal
5	5500.0000	98.23	8.10	68.30	-29.93	150	331	Horizontal
6	5500.0000	88.67	8.10	0.00	-88.67	150	335	Horizontal

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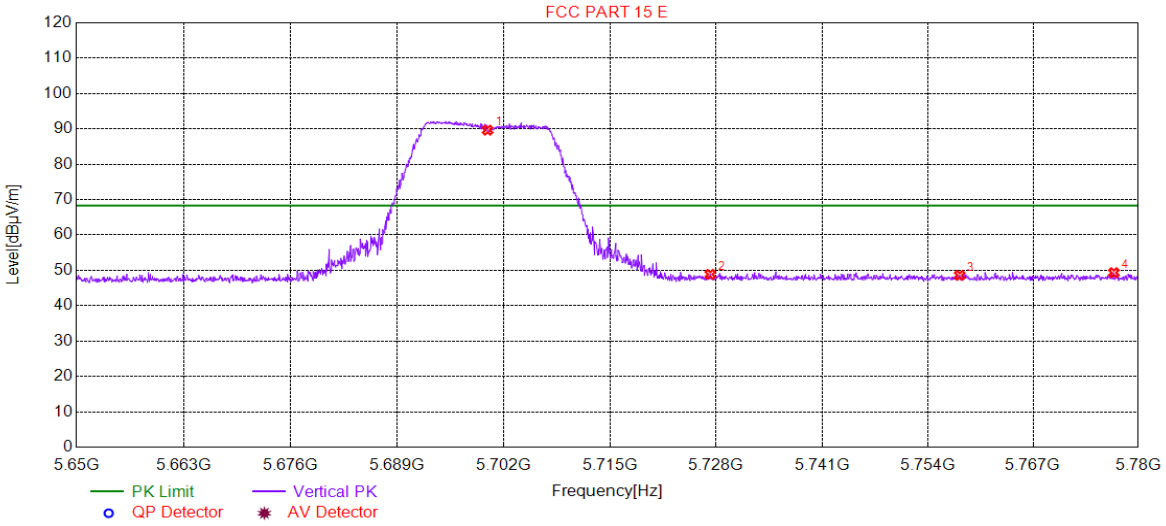
4.9.1.25 11N20_140 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	89.64	8.51	68.30	-21.34	150	240	Vertical
2	5727.2586	48.87	8.57	68.30	19.43	150	223	Vertical
3	5757.9540	48.58	8.64	68.30	19.72	150	265	Vertical
4	5777.0085	49.34	8.69	68.30	18.96	150	125	Vertical

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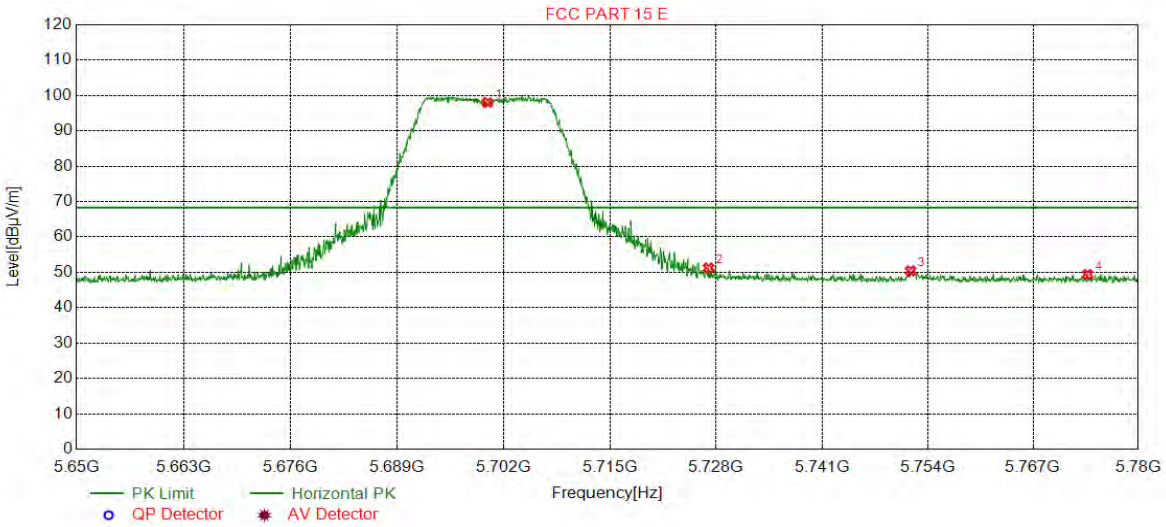
4.9.1.26 11N20_140 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	98.01	8.51	68.30	-29.71	150	330	Horizontal
2	5727.0635	51.22	8.57	68.30	17.08	150	92	Horizontal
3	5751.9060	50.44	8.63	68.30	17.86	150	327	Horizontal
4	5773.7569	49.42	8.68	68.30	18.88	150	60	Horizontal

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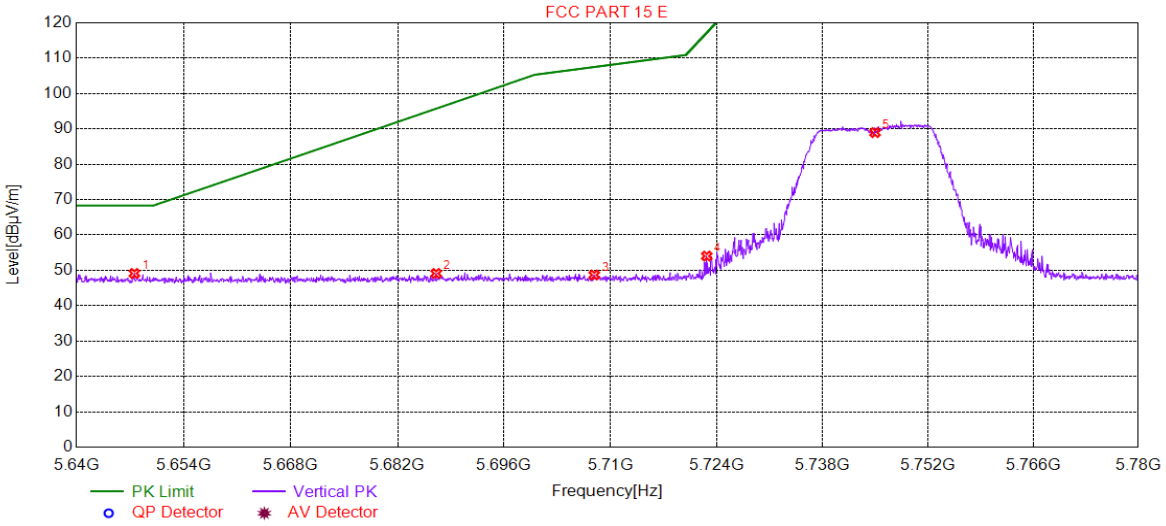
4.9.1.27 11N20_149 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.5638	49.13	8.43	68.30	19.17	150	195	Vertical
2	5687.0635	49.13	8.49	95.73	46.60	150	198	Vertical
3	5707.8639	48.69	8.53	107.50	58.81	150	103	Vertical
4	5722.7114	54.04	8.56	117.08	63.04	150	233	Vertical
5	5745.0000	88.96	8.61	0.00	-88.96	150	272	Vertical

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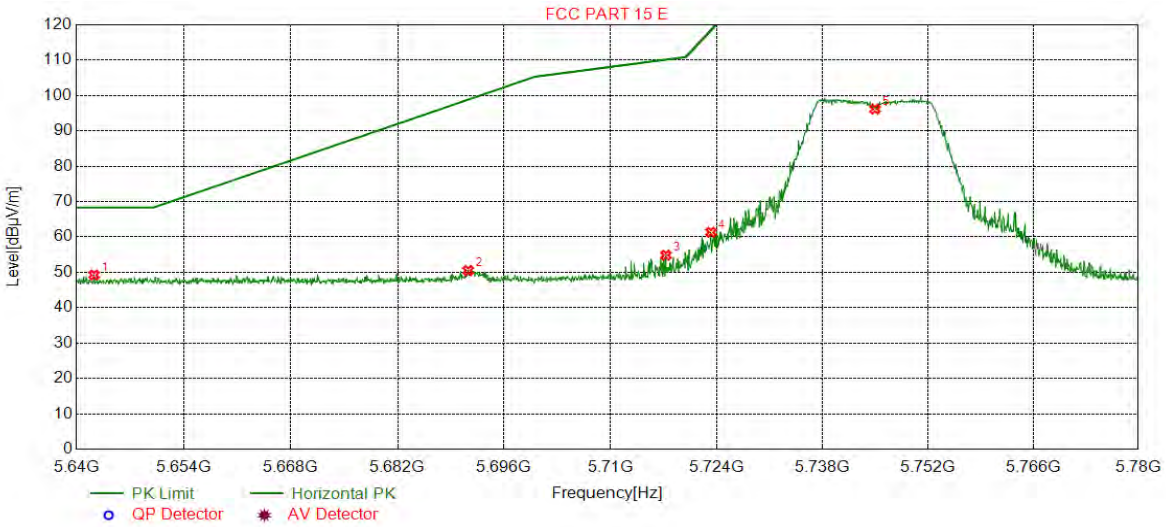
4.9.1.28 11N20_149 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5642.3112	49.26	8.42	68.30	19.04	150	151	Horizontal
2	5691.2656	50.51	8.50	98.84	48.33	150	126	Horizontal
3	5717.3187	54.85	8.55	110.15	55.30	150	330	Horizontal
4	5723.2716	61.35	8.56	118.36	57.01	150	344	Horizontal
5	5745.0000	96.17	8.61	0.00	-96.17	150	330	Horizontal

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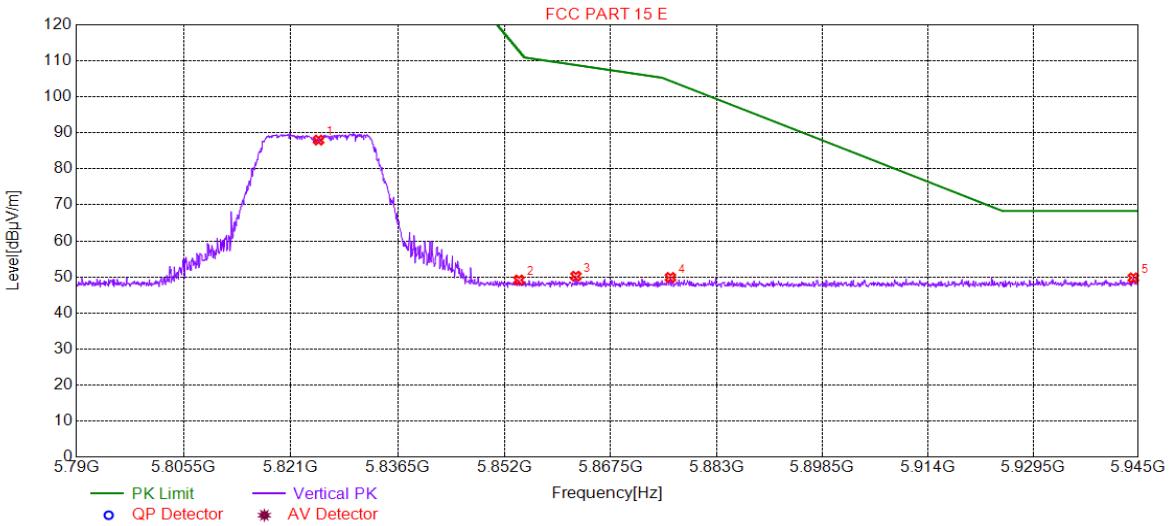
4.9.1.29 11N20_165 ANT 1_Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	88.00	8.82	0.00	-88.00	150	272	Vertical
2	5854.1246	49.15	8.90	112.90	63.75	150	307	Vertical
3	5862.4212	50.21	8.93	108.82	58.61	150	54	Vertical
4	5876.2231	49.87	8.97	104.39	54.52	150	26	Vertical
5	5944.3022	49.74	9.17	68.30	18.56	150	195	Vertical

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