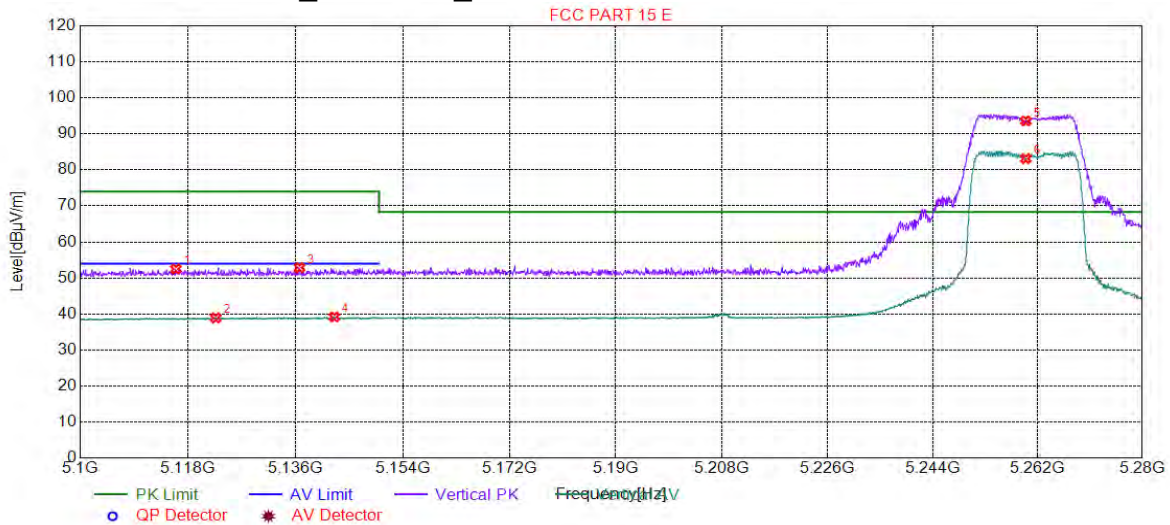




4.10.1.59 11AC20_52 ANT 1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5115.9380	52.48	15.23	74.00	21.52	150	56	Vertical
2	5122.6013	38.92	15.28	54.00	15.08	150	49	Vertical
3	5136.6483	52.86	15.41	74.00	21.14	150	235	Vertical
4	5142.5013	39.18	15.46	54.00	14.82	150	146	Vertical
5	5260.0000	93.60	15.51	68.30	-25.30	150	36	Vertical
6	5260.0000	83.13	15.51	0.00	-83.13	150	36	Vertical



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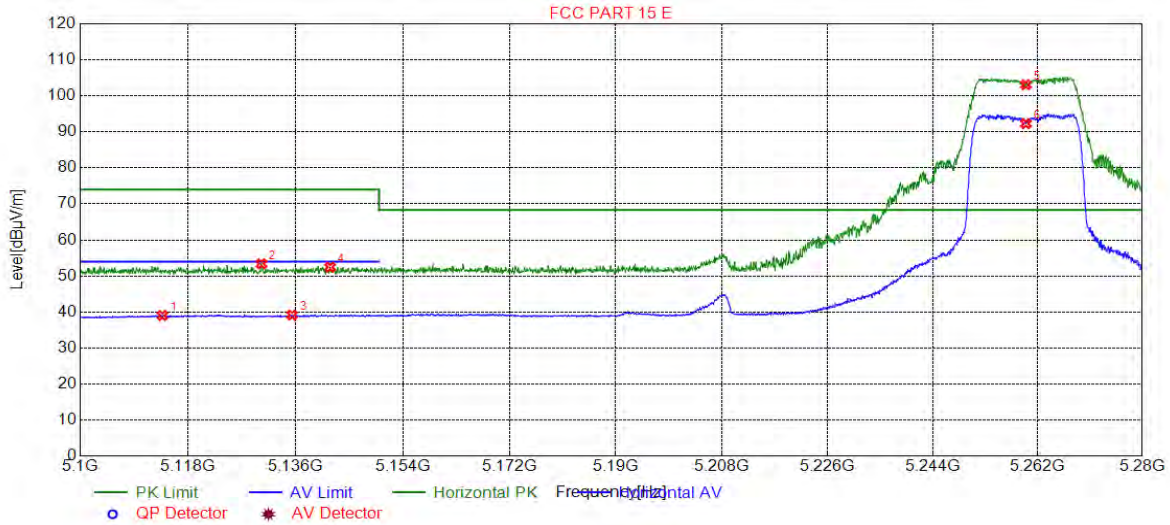
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4.10.1.60 11AC20_52 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.6868	39.02	15.21	54.00	14.98	150	345	Horizontal
2	5130.2551	53.39	15.35	74.00	20.61	150	187	Horizontal
3	5135.3877	39.17	15.39	54.00	14.83	150	152	Horizontal
4	5141.7809	52.44	15.45	74.00	21.56	150	152	Horizontal
5	5260.0000	103.08	15.51	68.30	-34.78	150	358	Horizontal
6	5260.0000	92.29	15.51	0.00	-92.29	150	352	Horizontal



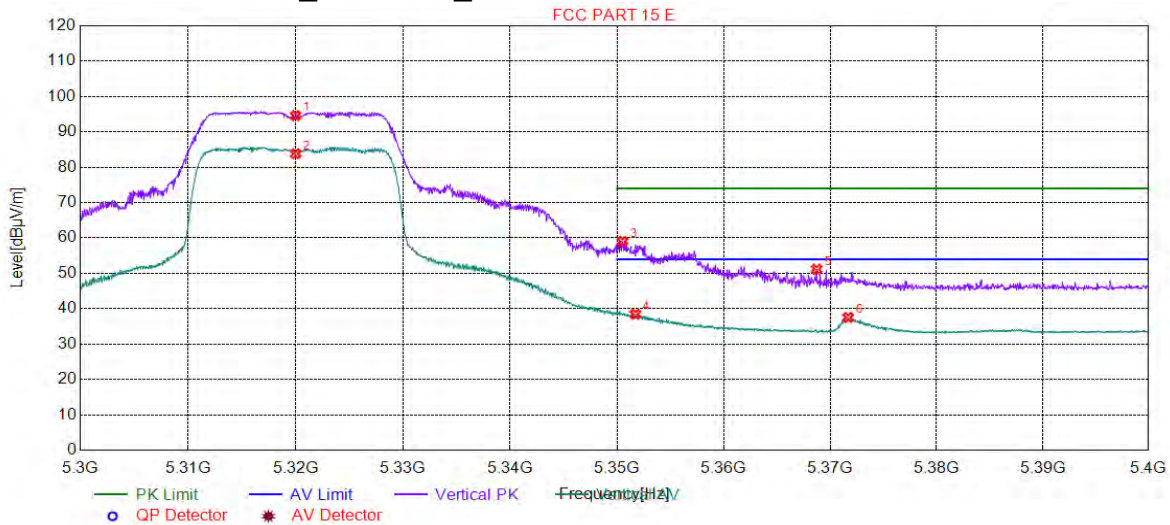
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4.10.1.61 11AC20_64 ANT 1_Vertical



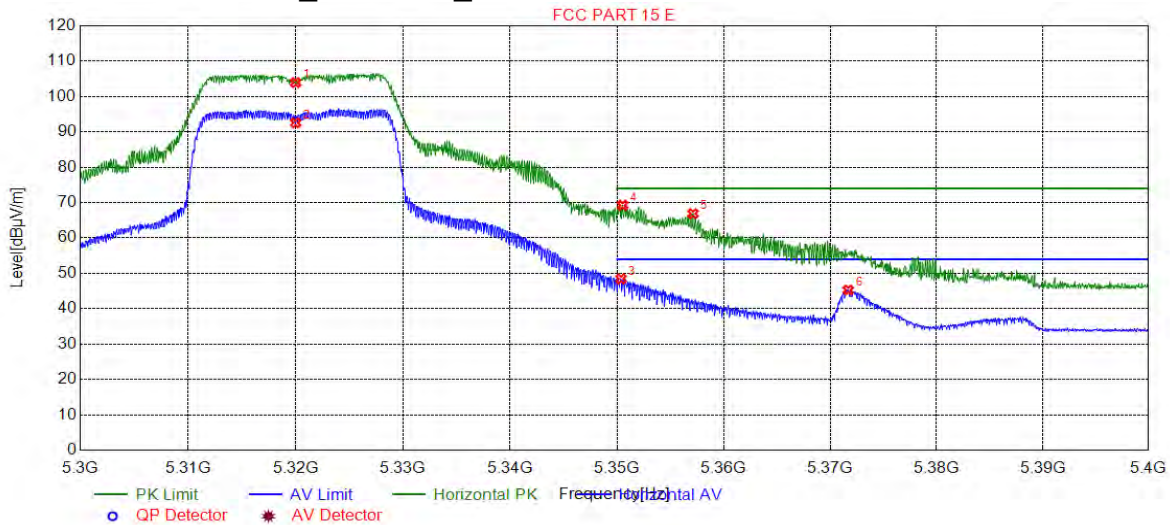
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	94.59	15.80	0.00	-94.59	150	228	Vertical
2	5320.0000	83.84	15.80	0.00	-83.84	150	228	Vertical
3	5350.5253	59.05	15.94	74.00	14.95	150	208	Vertical
4	5351.7259	38.45	15.95	54.00	15.55	150	242	Vertical
5	5368.7344	51.16	16.06	74.00	22.84	150	344	Vertical
6	5371.6858	37.54	16.07	54.00	16.46	150	344	Vertical





4.10.1.62 11AC20_64 ANT 1_ Horizontal



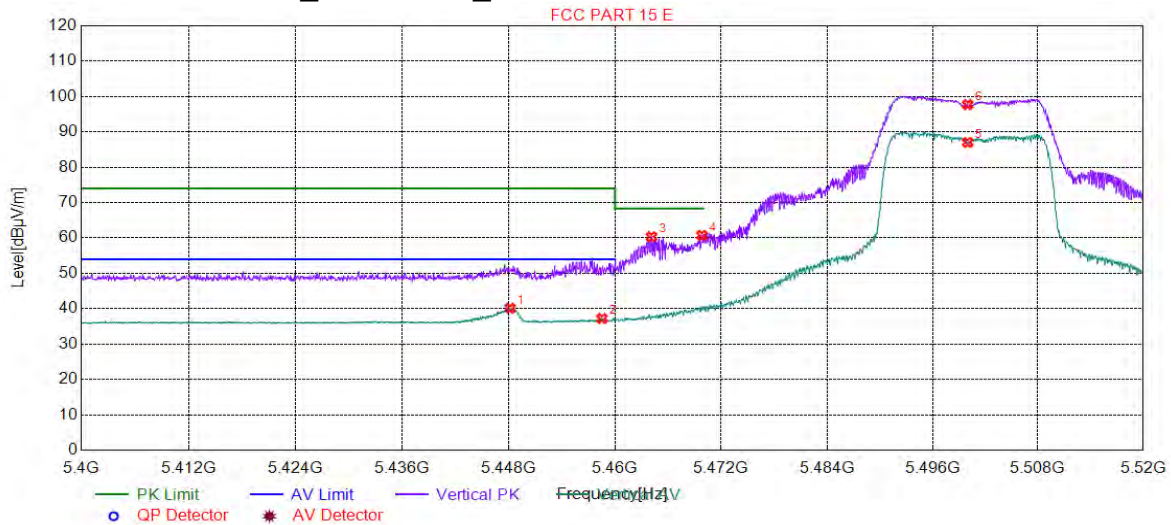
Suspected List

NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	103.92	15.80	0.00	-103.92	150	352	Horizontal
2	5320.0000	92.56	15.80	0.00	-92.56	150	70	Horizontal
3	5350.3752	48.45	15.94	54.00	5.55	150	352	Horizontal
4	5350.5253	69.26	15.94	74.00	4.74	150	352	Horizontal
5	5357.1286	66.89	15.98	74.00	7.11	150	352	Horizontal
6	5371.6858	45.29	16.07	54.00	8.71	150	352	Horizontal





4.10.1.63 11AC20_100 ANT 1_Vertical



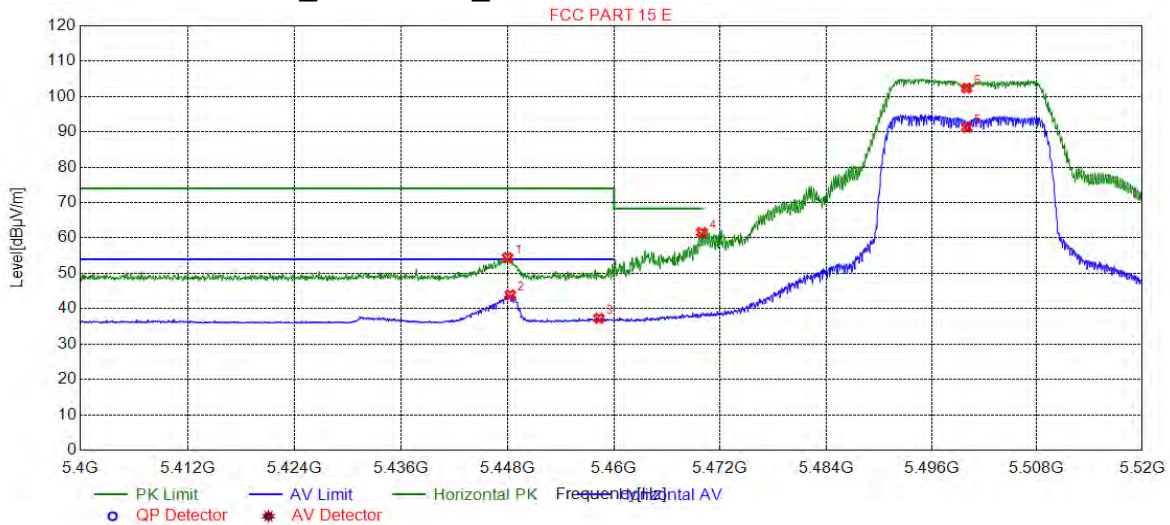
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5448.1441	40.12	16.25	54.00	13.88	150	32	Vertical
2	5458.5293	37.24	16.25	54.00	16.76	150	32	Vertical
3	5464.1121	60.36	16.25	68.30	7.94	150	27	Vertical
4	5469.8149	60.75	16.25	68.30	7.55	150	27	Vertical
5	5500.0000	87.02	16.25	0.00	-87.02	150	27	Vertical
6	5500.0000	97.71	16.25	0.00	-97.71	150	32	Vertical





4.10.1.64 11AC20_100 ANT 1_ Horizontal



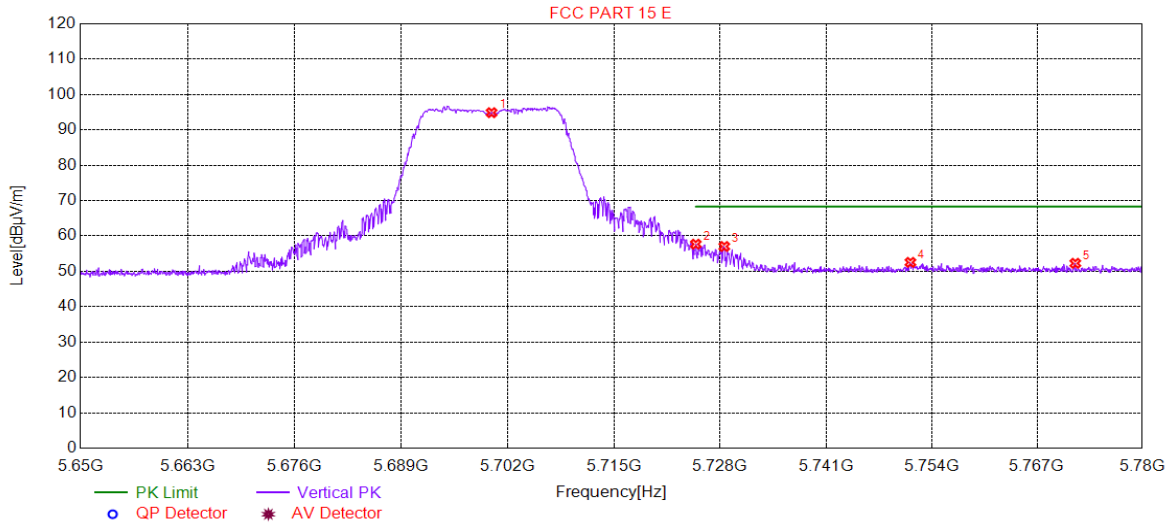
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.9640	54.46	16.25	74.00	19.54	150	349	Horizontal
2	5448.2641	43.92	16.25	54.00	10.08	150	349	Horizontal
3	5458.2891	37.27	16.25	54.00	16.73	150	355	Horizontal
4	5469.9350	61.54	16.25	68.30	6.76	150	349	Horizontal
5	5500.0000	91.28	16.25	0.00	-91.28	150	355	Horizontal
6	5500.0000	102.35	16.25	0.00	-102.35	150	355	Horizontal





4.10.1.65 11AC20_140 ANT 1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	94.86	16.80	0.00	-94.86	150	344	Vertical
2	5725.0000	57.69	16.96	68.30	10.61	150	344	Vertical
3	5728.4942	57.04	16.98	68.30	11.26	150	344	Vertical
4	5751.3857	52.54	17.12	68.30	15.76	150	344	Vertical
5	5771.7409	52.28	17.15	68.30	16.02	150	344	Vertical



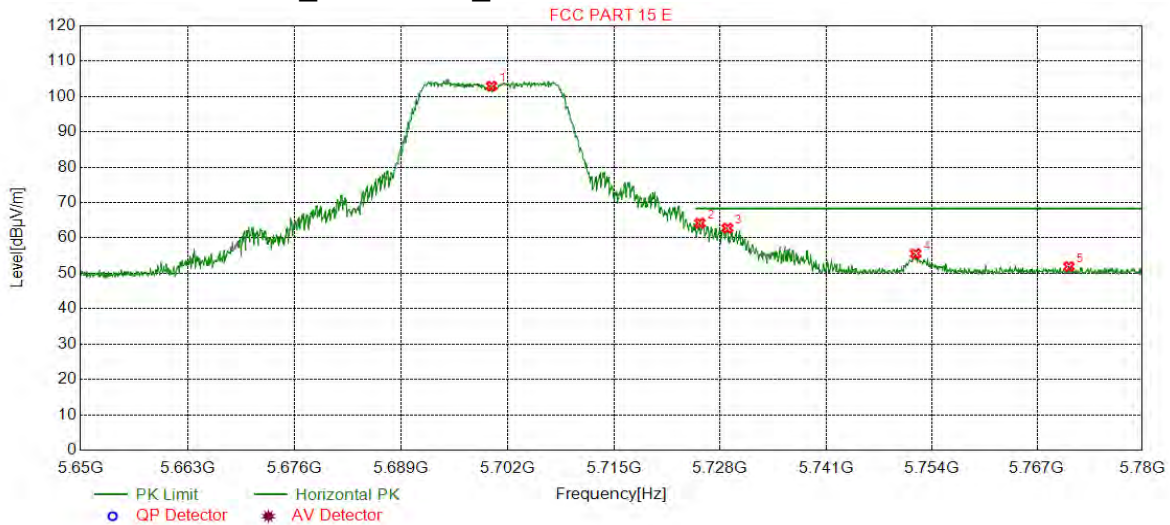
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4.10.1.66 11AC20_140 ANT 1_ Horizontal



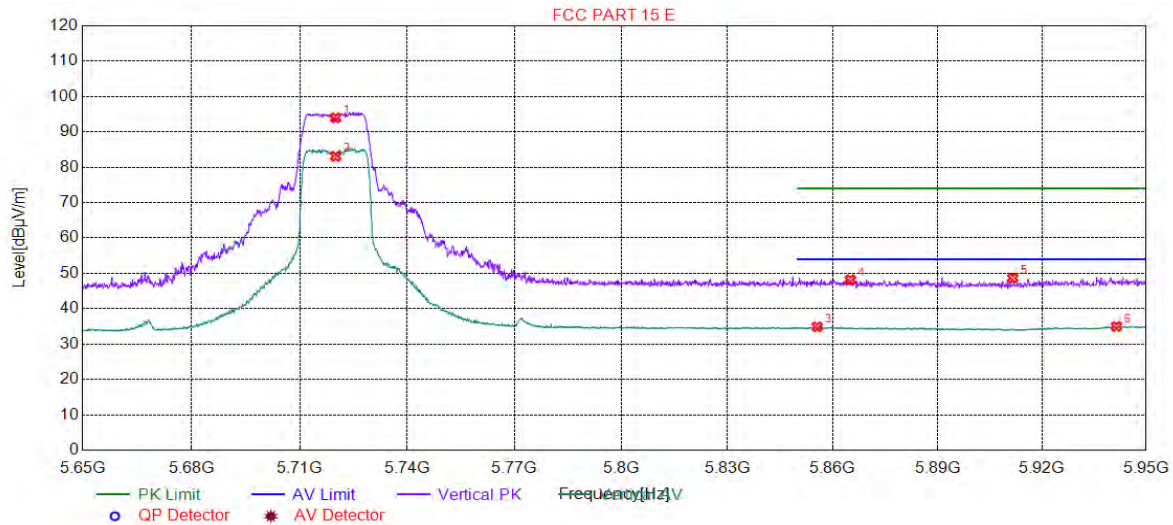
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	102.97	16.80	0.00	-102.97	150	358	Horizontal
2	5725.5028	64.21	16.96	68.30	4.09	150	358	Horizontal
3	5728.8844	62.78	16.98	68.30	5.52	150	356	Horizontal
4	5752.0360	55.56	17.12	68.30	12.74	150	358	Horizontal
5	5770.9605	51.95	17.15	68.30	16.35	150	310	Horizontal





4.10.1.67 11AC20_144 ANT 1_Vertical



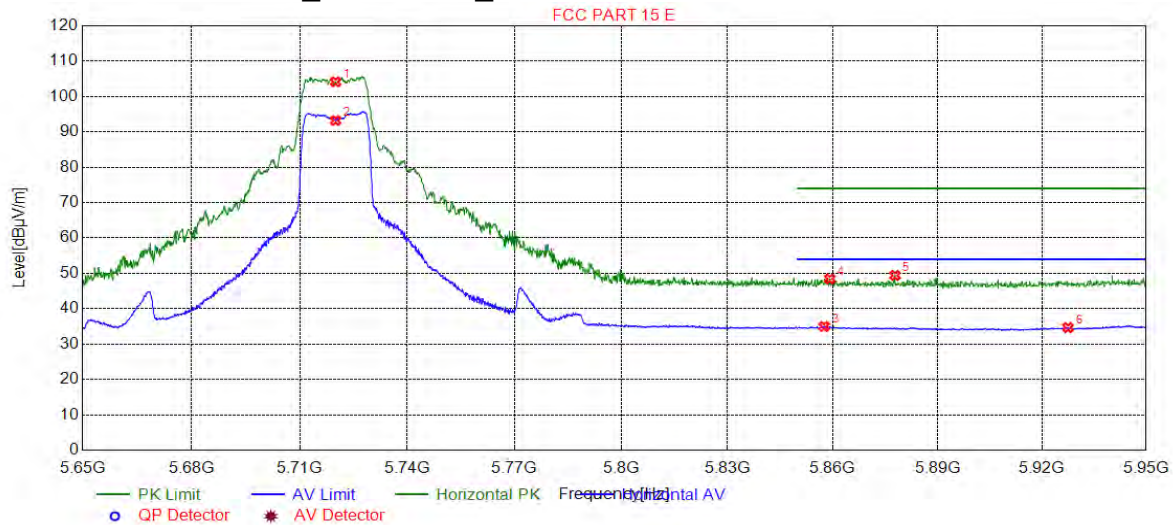
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.0000	93.98	16.93	0.00	-93.98	150	36	Vertical
2	5720.0000	83.08	16.93	0.00	-83.08	150	36	Vertical
3	5855.6028	34.90	17.24	54.00	19.10	150	104	Vertical
4	5865.0575	48.18	17.21	74.00	25.82	150	208	Vertical
5	5911.5808	48.70	17.29	74.00	25.30	150	270	Vertical
6	5941.4457	34.99	17.75	54.00	19.01	150	195	Vertical





4.10.1.68 11AC20_144 ANT 1_ Horizontal



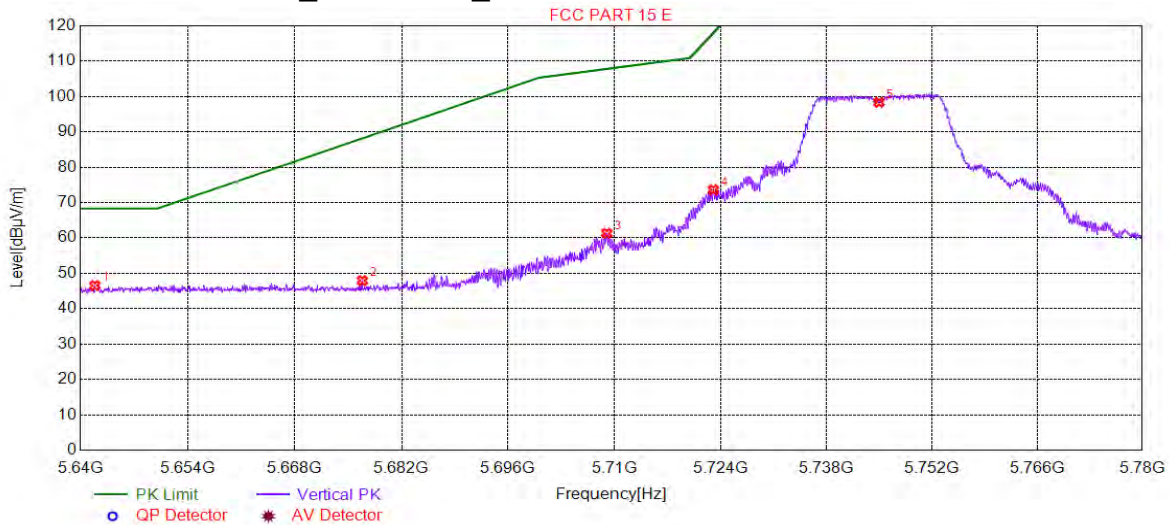
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.0000	104.16	16.93	0.00	-104.16	150	344	Horizontal
2	5720.0000	93.22	16.93	0.00	-93.22	150	344	Horizontal
3	5857.5538	34.99	17.24	54.00	19.01	150	14	Horizontal
4	5859.2046	48.43	17.23	74.00	25.57	150	131	Horizontal
5	5877.8139	49.41	17.18	74.00	24.59	150	344	Horizontal
6	5927.4887	34.67	17.53	54.00	19.33	150	92	Horizontal





4.10.1.69 11AC20_149 ANT 1_Vertical

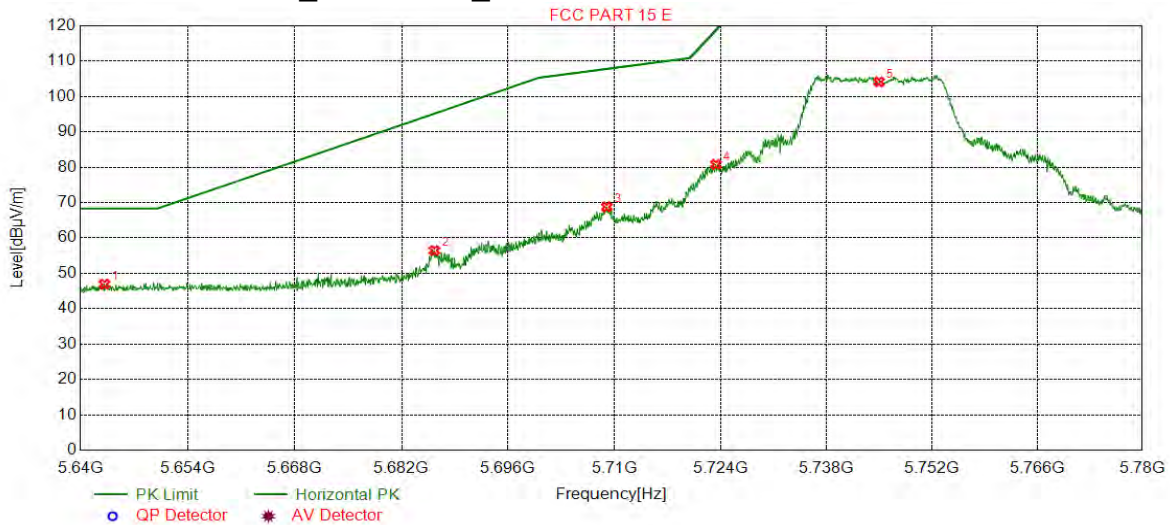


Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5641.8909	46.56	16.54	68.30	21.74	150	295	Vertical
2	5676.8384	47.94	16.67	88.16	40.22	150	77	Vertical
3	5708.9845	61.35	16.86	107.82	46.47	150	344	Vertical
4	5723.0615	73.62	16.95	117.88	44.26	150	344	Vertical
5	5745.0000	98.37	17.09	0.00	-98.37	150	344	Vertical





4.10.1.70 11AC20_149 ANT 1_ Horizontal



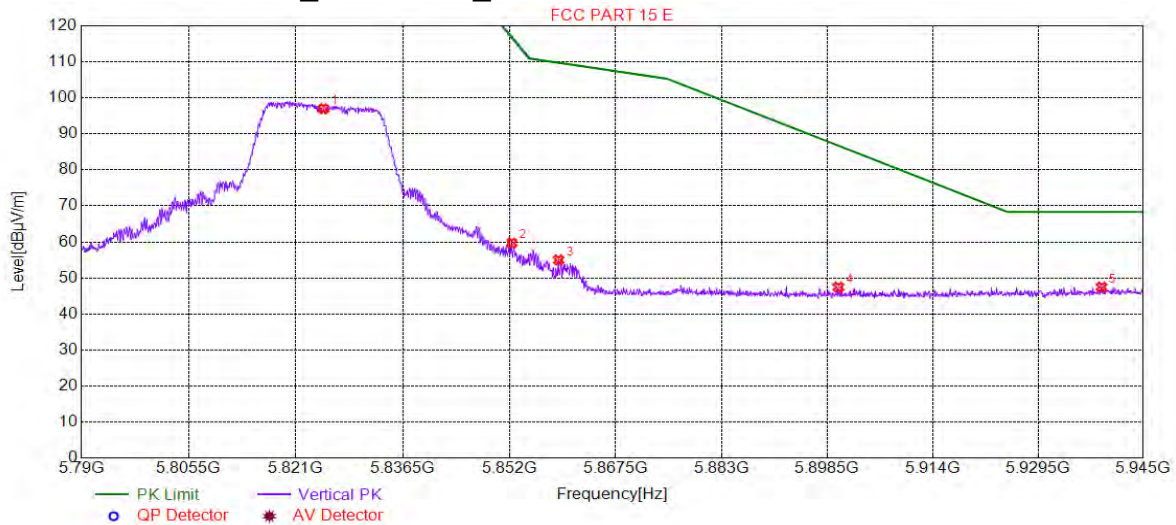
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.1516	46.96	16.54	68.30	21.34	150	80	Horizontal
2	5686.2931	56.46	16.73	95.16	38.70	150	359	Horizontal
3	5708.9845	68.79	16.86	107.82	39.03	150	356	Horizontal
4	5723.4117	80.80	16.95	118.68	37.88	150	356	Horizontal
5	5745.0000	104.14	17.09	0.00	-104.14	150	352	Horizontal





4.10.1.71 11AC20_165 ANT 1_Vertical



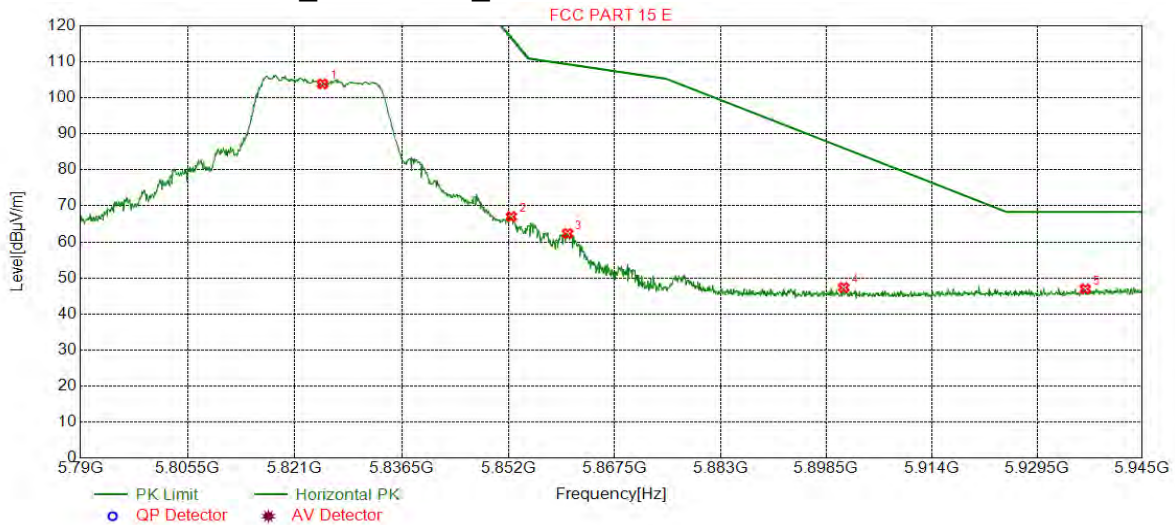
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	96.99	17.23	0.00	-96.99	150	58	Vertical
2	5852.3412	59.71	17.25	116.96	57.25	150	54	Vertical
3	5859.1646	55.02	17.23	109.73	54.71	150	54	Vertical
4	5900.1051	47.45	17.11	86.72	39.27	150	193	Vertical
5	5938.8744	47.49	17.71	68.30	20.81	150	142	Vertical





4.10.1.72 11AC20_165 ANT 1_ Horizontal



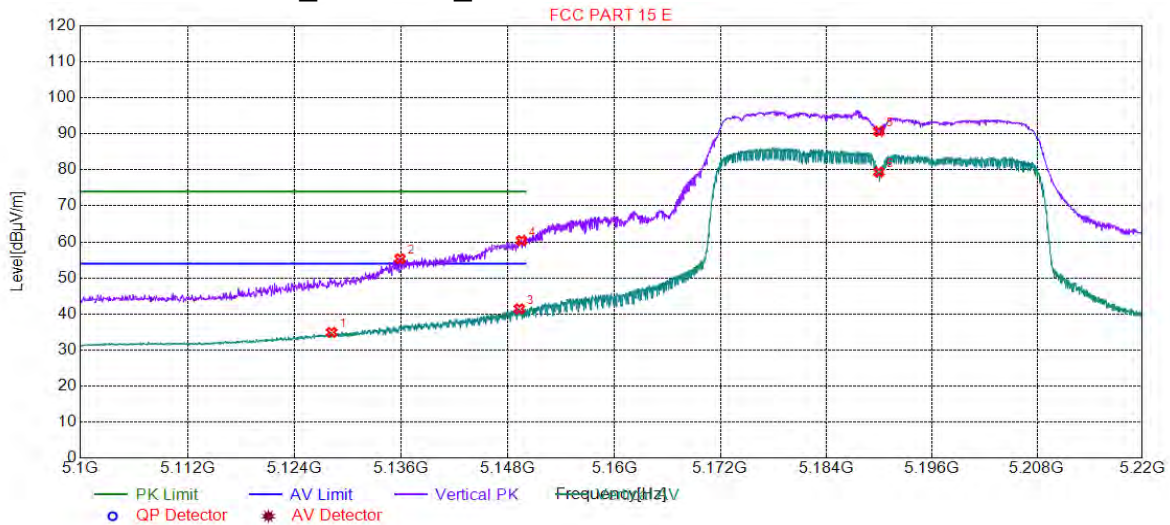
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	103.86	17.23	0.00	-103.86	150	360	Horizontal
2	5852.4187	67.02	17.25	116.79	49.77	150	358	Horizontal
3	5860.6378	62.34	17.23	109.32	46.98	150	360	Horizontal
4	5901.0355	47.35	17.13	86.03	38.68	150	154	Horizontal
5	5936.6258	46.95	17.67	68.30	21.35	150	80	Horizontal





4.10.1.73 11AC40_38 ANT 1_ Vertical



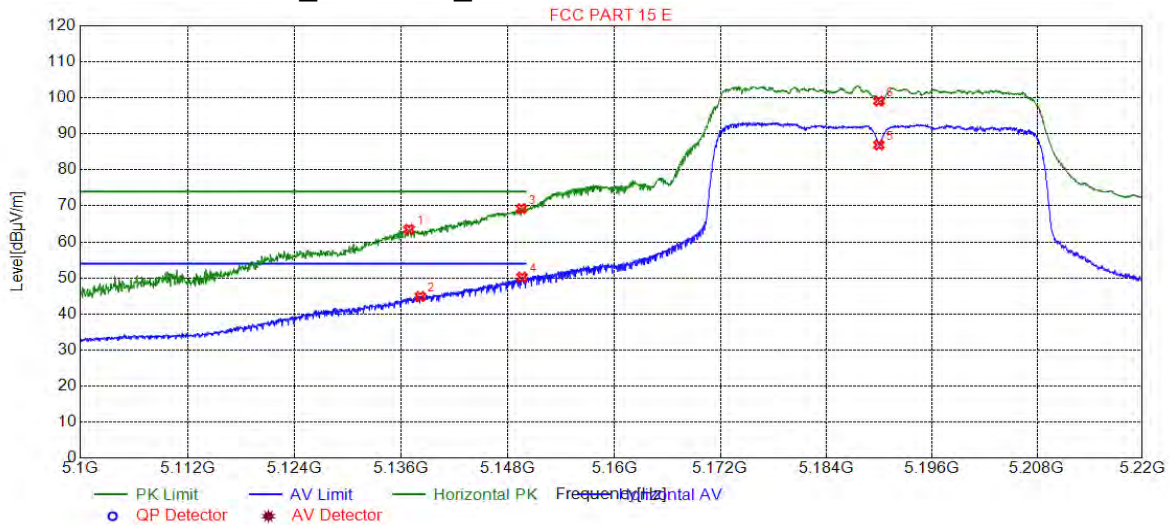
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.1541	34.90	15.33	54.00	19.10	150	33	Vertical
2	5135.8379	55.35	15.40	74.00	18.65	150	33	Vertical
3	5149.2846	41.45	15.51	54.00	12.55	150	33	Vertical
4	5149.5248	60.41	15.52	74.00	13.59	150	27	Vertical
5	5190.0000	90.70	15.58	0.00	-90.70	150	33	Vertical
6	5190.0000	79.42	15.58	0.00	-79.42	150	33	Vertical





4.10.1.74 11AC40_38 ANT 1_ Horizontal



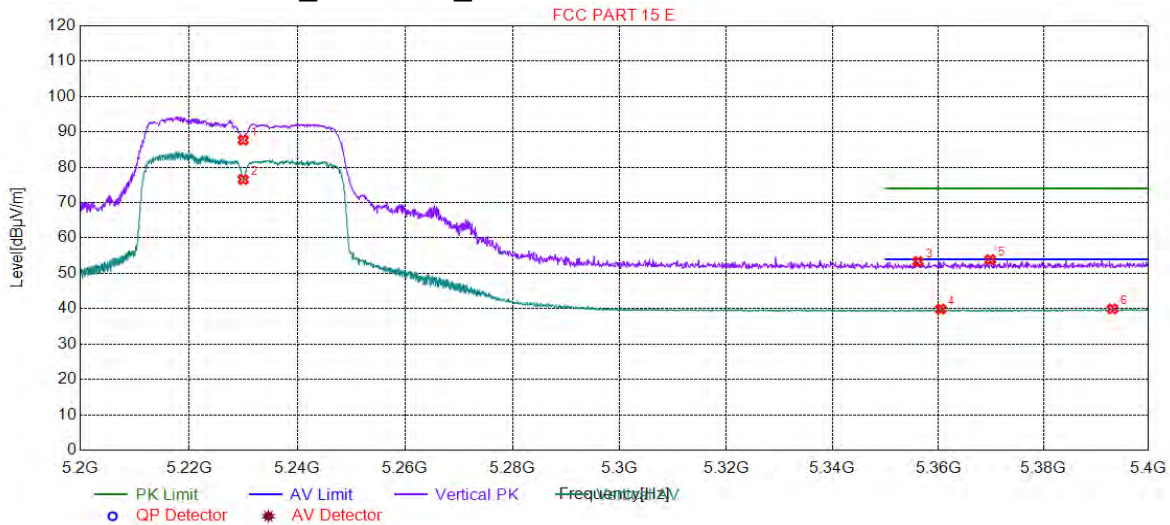
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5136.8584	63.49	15.41	74.00	10.51	150	350	Horizontal
2	5138.1191	44.83	15.42	54.00	9.17	150	14	Horizontal
3	5149.5248	69.25	15.52	74.00	4.75	150	14	Horizontal
4	5149.5848	50.25	15.52	54.00	3.75	150	14	Horizontal
5	5190.0000	86.92	15.58	0.00	-86.92	150	344	Horizontal
6	5190.0000	99.11	15.58	0.00	-99.11	150	74	Horizontal





4.10.1.75 11AC40_46 ANT 1_ Vertical

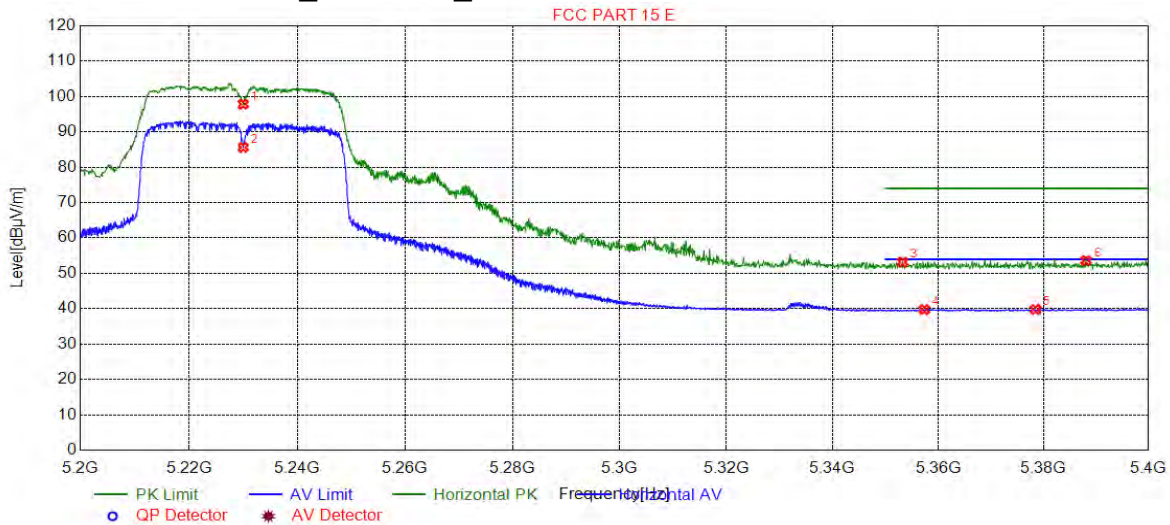


Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	87.68	15.51	0.00	-87.68	150	28	Vertical
2	5230.0000	76.53	15.51	0.00	-76.53	150	241	Vertical
3	5356.1781	53.32	15.98	74.00	20.68	150	255	Vertical
4	5360.4802	39.88	16.00	54.00	14.12	150	234	Vertical
5	5369.8849	53.87	16.06	74.00	20.13	150	248	Vertical
6	5393.0965	39.95	16.21	54.00	14.05	150	192	Vertical





4.10.1.76 11AC40_46 ANT 1_ Horizontal



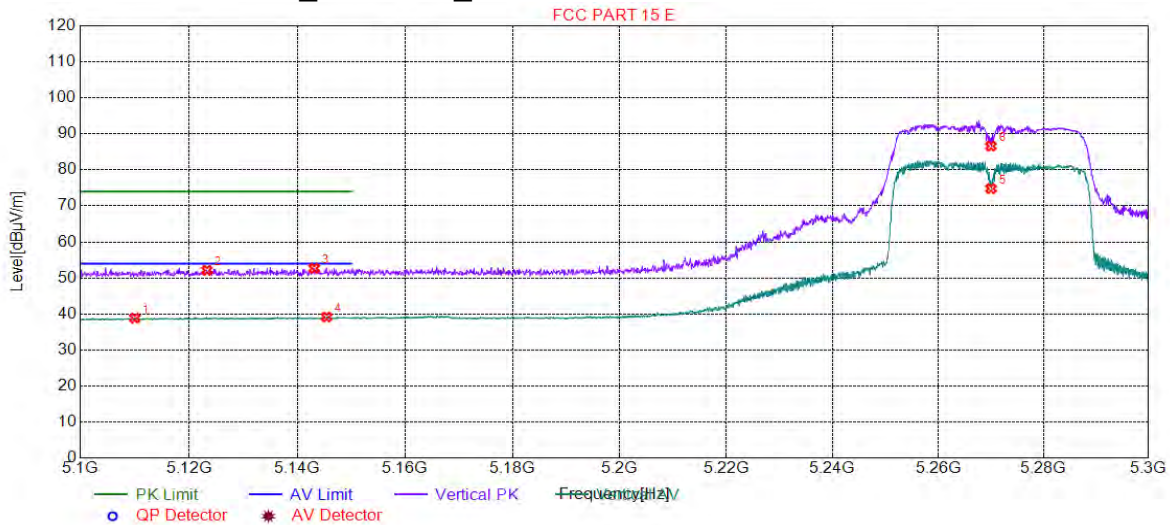
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	97.84	15.51	0.00	-97.84	150	77	Horizontal
2	5230.0000	85.61	15.51	0.00	-85.61	150	346	Horizontal
3	5353.2766	53.18	15.96	74.00	20.82	150	160	Horizontal
4	5357.3787	39.74	15.99	54.00	14.26	150	353	Horizontal
5	5378.4892	39.78	16.12	54.00	14.22	150	125	Horizontal
6	5388.0940	53.61	16.18	74.00	20.39	150	283	Horizontal





4.10.1.77 11AC40_54 ANT 1_ Vertical



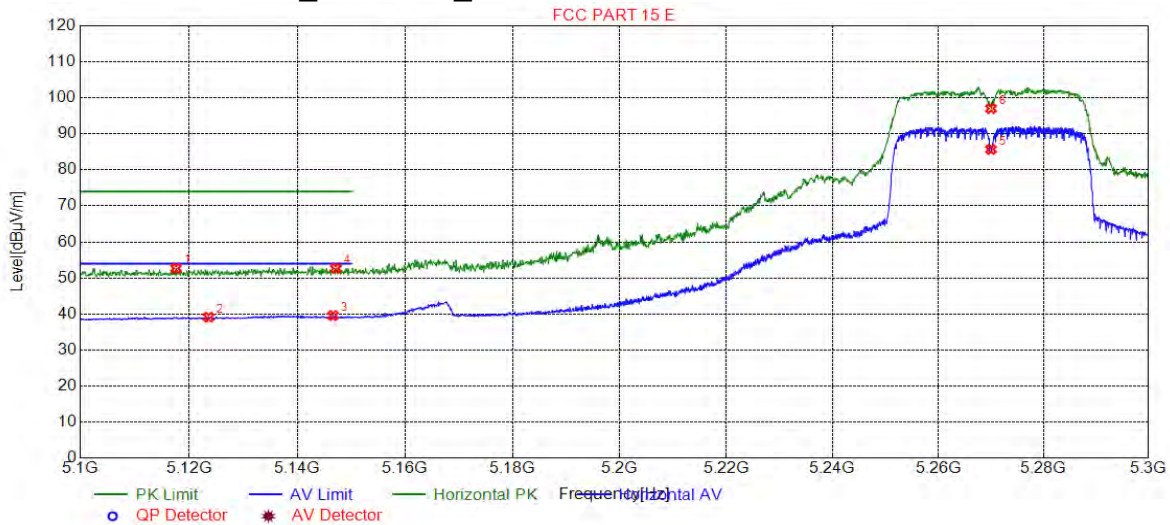
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5110.0050	38.87	15.18	54.00	15.13	150	188	Vertical
2	5123.3117	52.13	15.29	74.00	21.87	150	209	Vertical
3	5143.1216	52.68	15.46	74.00	21.32	150	105	Vertical
4	5145.4227	39.17	15.48	54.00	14.83	150	78	Vertical
5	5270.0000	74.81	15.56	0.00	-74.81	150	229	Vertical
6	5270.0000	86.60	15.56	0.00	-86.60	150	222	Vertical





4.10.1.78 11AC40_54 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.6088	52.67	15.24	74.00	21.33	150	188	Horizontal
2	5123.6118	39.11	15.29	54.00	14.89	150	57	Horizontal
3	5146.6233	39.58	15.49	54.00	14.42	150	346	Horizontal
4	5147.1236	52.69	15.50	74.00	21.31	150	360	Horizontal
5	5270.0000	85.69	15.56	0.00	-85.69	150	71	Horizontal
6	5270.0000	97.05	15.56	0.00	-97.05	150	71	Horizontal



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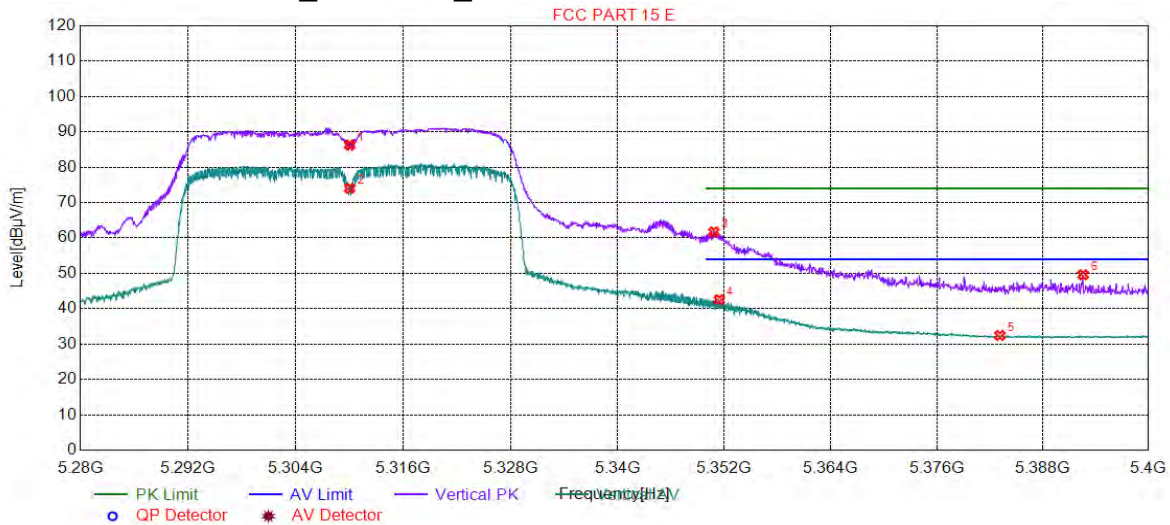
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4.10.1.79 11AC40_62 ANT 1_ Vertical



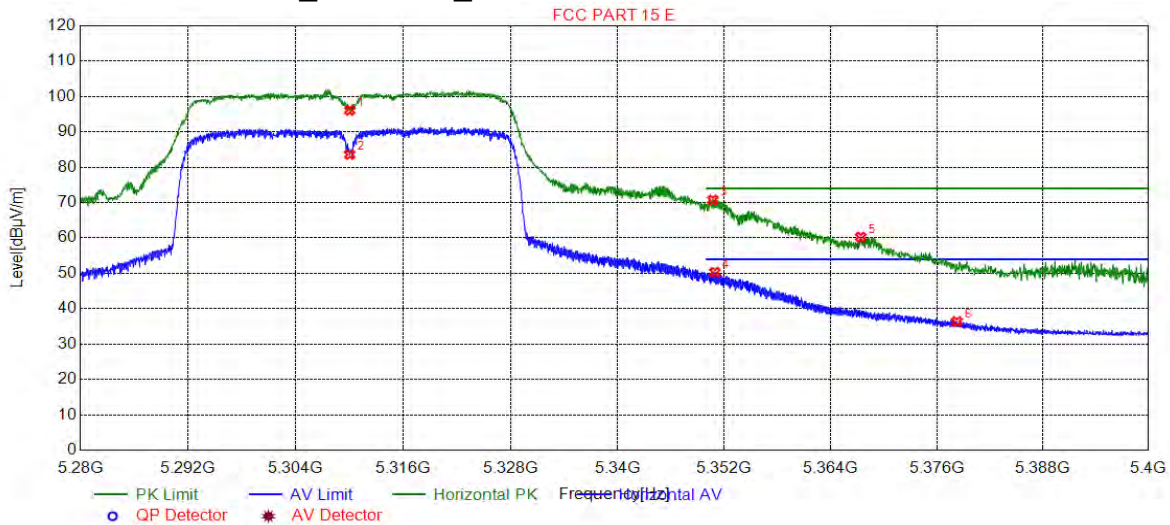
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	86.30	15.75	0.00	-86.30	150	227	Vertical
2	5310.0000	74.02	15.75	0.00	-74.02	150	227	Vertical
3	5350.8354	61.76	15.95	74.00	12.24	150	206	Vertical
4	5351.4357	42.56	15.95	54.00	11.44	150	206	Vertical
5	5383.1316	32.44	16.15	54.00	21.56	150	32	Vertical
6	5392.5563	49.60	16.20	74.00	24.40	150	32	Vertical





4.10.1.80 11AC40_62 ANT 1_ Horizontal



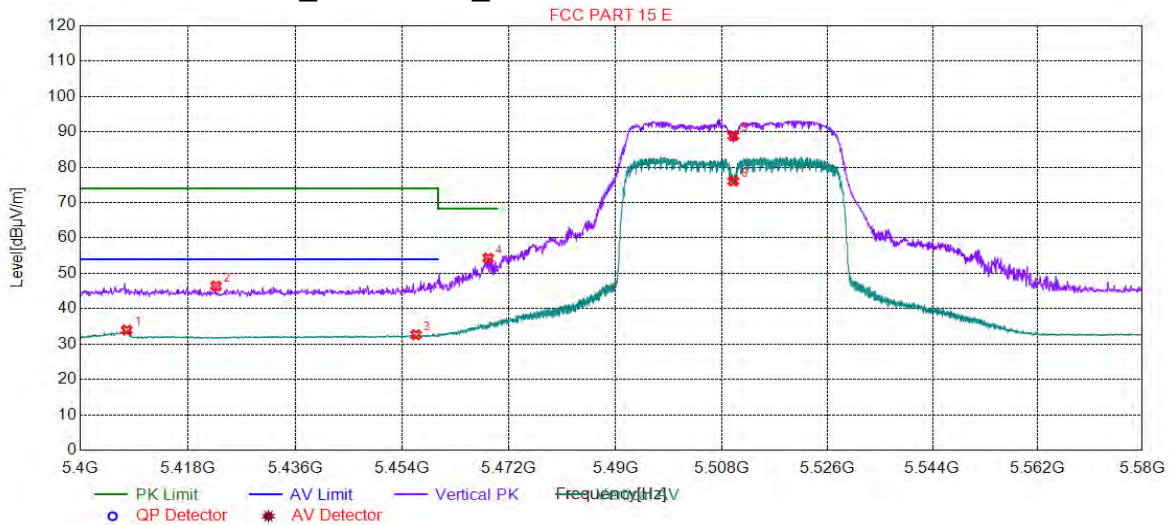
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	96.10	15.75	0.00	-96.10	150	354	Horizontal
2	5310.0000	83.60	15.75	0.00	-83.60	150	354	Horizontal
3	5350.7154	70.73	15.94	74.00	3.27	150	354	Horizontal
4	5350.9555	50.31	15.95	54.00	3.69	150	354	Horizontal
5	5367.4037	60.25	16.05	74.00	13.75	150	354	Horizontal
6	5378.2691	36.34	16.12	54.00	17.66	150	348	Horizontal





4.10.1.81 11AC40_102 ANT 1_ Vertical



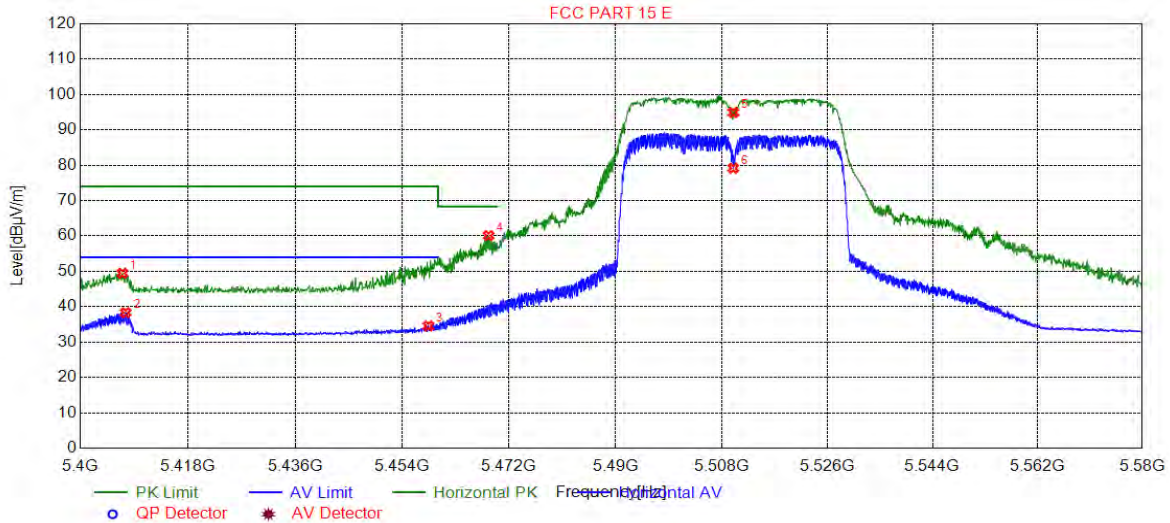
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5407.7439	33.95	16.25	54.00	20.05	150	28	Vertical
2	5422.6913	46.41	16.25	74.00	27.59	150	344	Vertical
3	5456.2781	32.63	16.25	54.00	21.37	150	344	Vertical
4	5468.4342	54.29	16.25	68.30	14.01	150	28	Vertical
5	5510.0000	88.90	16.28	0.00	-88.90	150	28	Vertical
6	5510.0000	76.09	16.28	0.00	-76.09	150	28	Vertical





4.10.1.82 11AC40_102 ANT 1_ Horizontal



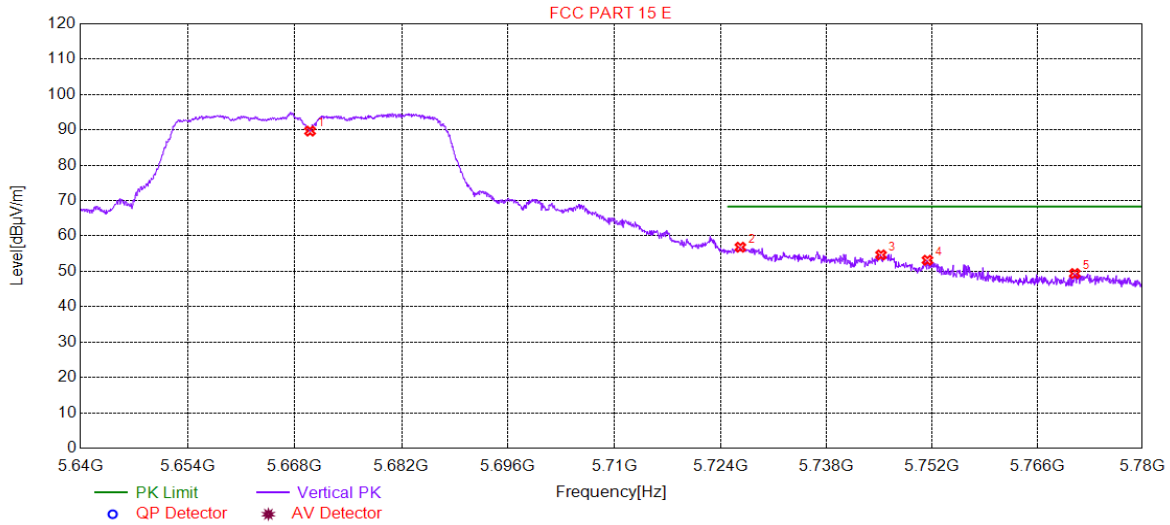
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5407.0235	49.44	16.25	74.00	24.56	150	351	Horizontal
2	5407.5638	38.33	16.25	54.00	15.67	150	351	Horizontal
3	5458.3492	34.57	16.25	54.00	19.43	150	351	Horizontal
4	5468.5243	60.08	16.25	68.30	8.22	150	351	Horizontal
5	5510.0000	94.91	16.28	0.00	-94.91	150	351	Horizontal
6	5510.0000	79.16	16.28	0.00	-79.16	150	76	Horizontal





4.10.1.83 11AC40_134 ANT 1_ Vertical



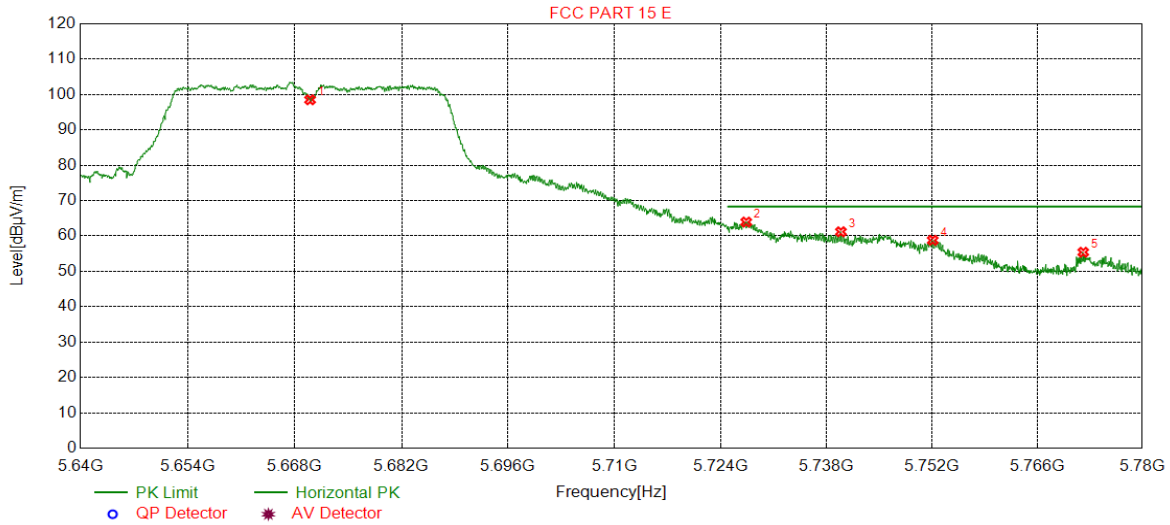
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	89.66	16.64	0.00	-89.66	150	359	Vertical
2	5726.6333	56.83	16.97	68.30	11.47	150	359	Vertical
3	5745.2626	54.65	17.09	68.30	13.65	150	359	Vertical
4	5751.4257	53.15	17.12	68.30	15.15	150	359	Vertical
5	5771.0355	49.38	17.15	68.30	18.92	150	357	Vertical





4.10.1.84 11AC40_134 ANT 1_ Horizontal



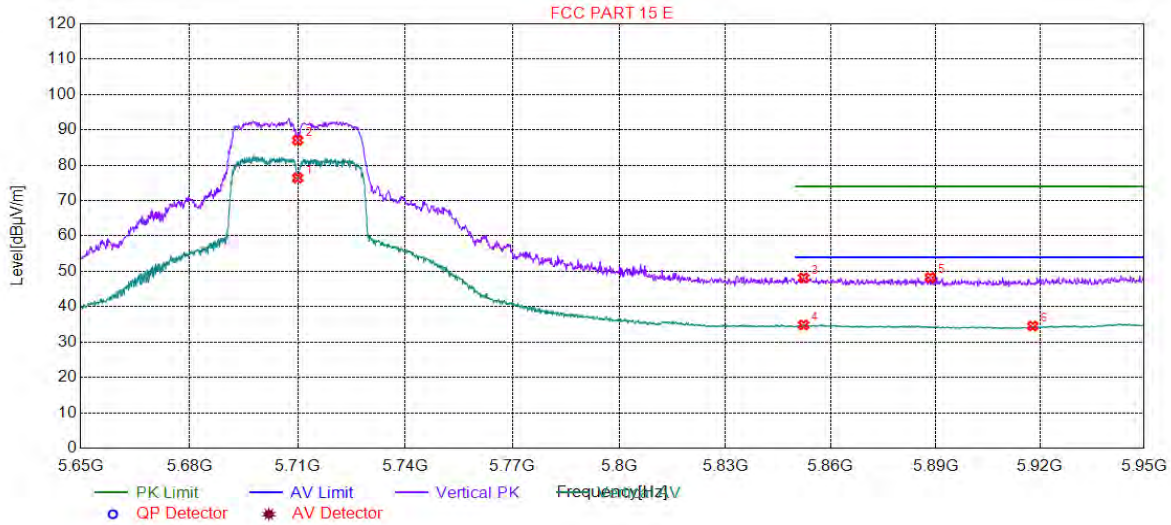
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	98.51	16.64	0.00	-98.51	150	344	Horizontal
2	5727.4037	63.94	16.98	68.30	4.36	150	344	Horizontal
3	5739.9400	61.19	17.06	68.30	7.11	150	344	Horizontal
4	5752.1261	58.78	17.12	68.30	9.52	150	344	Horizontal
5	5772.1561	55.41	17.15	68.30	12.89	150	344	Horizontal





4.10.1.85 11AC40_142 ANT 1_ Vertical



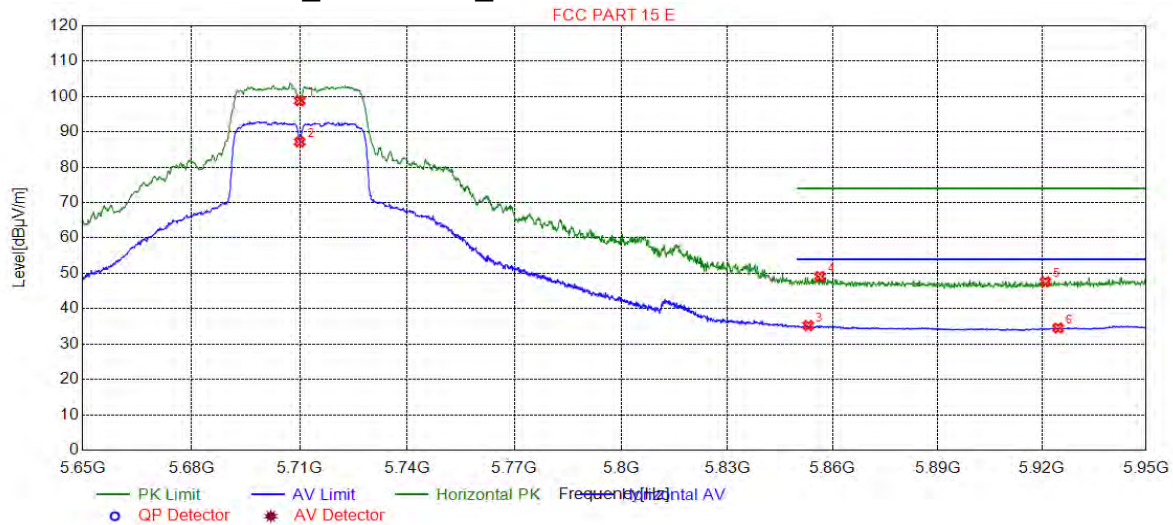
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.0000	76.39	16.86	0.00	-76.39	150	30	Vertical
2	5710.0000	87.08	16.86	0.00	-87.08	150	36	Vertical
3	5852.3012	48.17	17.25	74.00	25.83	150	16	Vertical
4	5852.3012	34.85	17.25	54.00	19.15	150	16	Vertical
5	5888.4692	48.27	17.14	74.00	25.73	150	78	Vertical
6	5917.8839	34.54	17.39	54.00	19.46	150	50	Vertical





4.10.1.86 11AC40_142 ANT 1_ Horizontal



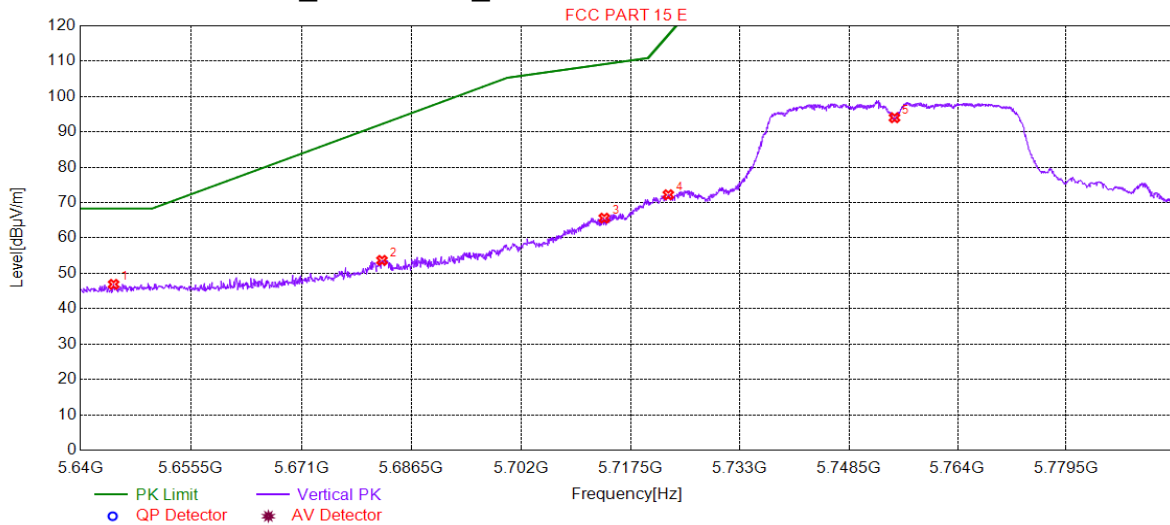
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.0000	98.79	16.86	0.00	-98.79	150	0	Horizontal
2	5710.0000	87.20	16.86	0.00	-87.20	150	344	Horizontal
3	5853.0515	35.23	17.25	54.00	18.77	150	48	Horizontal
4	5856.3532	49.12	17.24	74.00	24.88	150	344	Horizontal
5	5921.0355	47.67	17.43	74.00	26.33	150	152	Horizontal
6	5924.6373	34.55	17.49	54.00	19.45	150	226	Horizontal





4.10.1.87 11AC40_151 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.6523	46.89	16.54	68.30	21.41	150	309	Vertical
2	5682.3362	53.67	16.70	92.23	38.56	150	360	Vertical
3	5713.7394	65.62	16.89	109.15	43.53	150	358	Vertical
4	5722.8114	72.23	16.95	117.31	45.08	150	358	Vertical
5	5755.0000	94.00	17.13	0.00	-94.00	150	360	Vertical



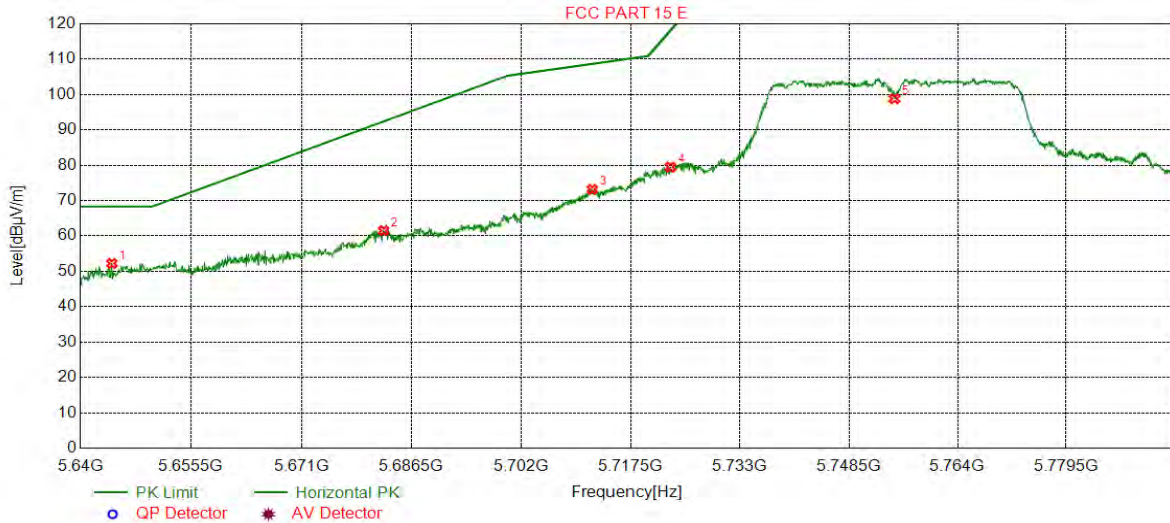
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4.10.1.88 11AC40_151 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.4197	52.24	16.54	68.30	16.06	150	344	Horizontal
2	5682.5688	61.51	16.71	92.40	30.89	150	344	Horizontal
3	5712.0335	73.17	16.88	108.67	35.50	150	344	Horizontal
4	5723.1216	79.48	16.95	118.02	38.54	150	344	Horizontal
5	5755.0000	98.81	17.13	0.00	-98.81	150	344	Horizontal



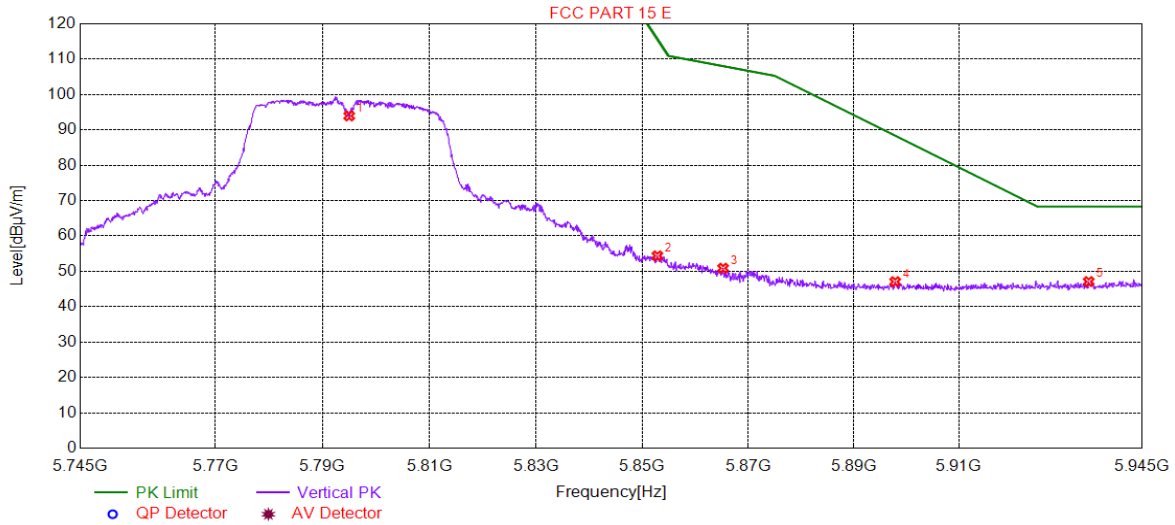
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4.10.1.89 11AC40_159 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	93.95	17.18	0.00	-93.95	150	358	Vertical
2	5852.8539	54.39	17.25	115.79	61.40	150	57	Vertical
3	5865.2601	50.89	17.21	108.03	57.14	150	16	Vertical
4	5897.8764	47.08	17.12	88.37	41.29	150	314	Vertical
5	5934.7949	47.11	17.65	68.30	21.19	150	360	Vertical



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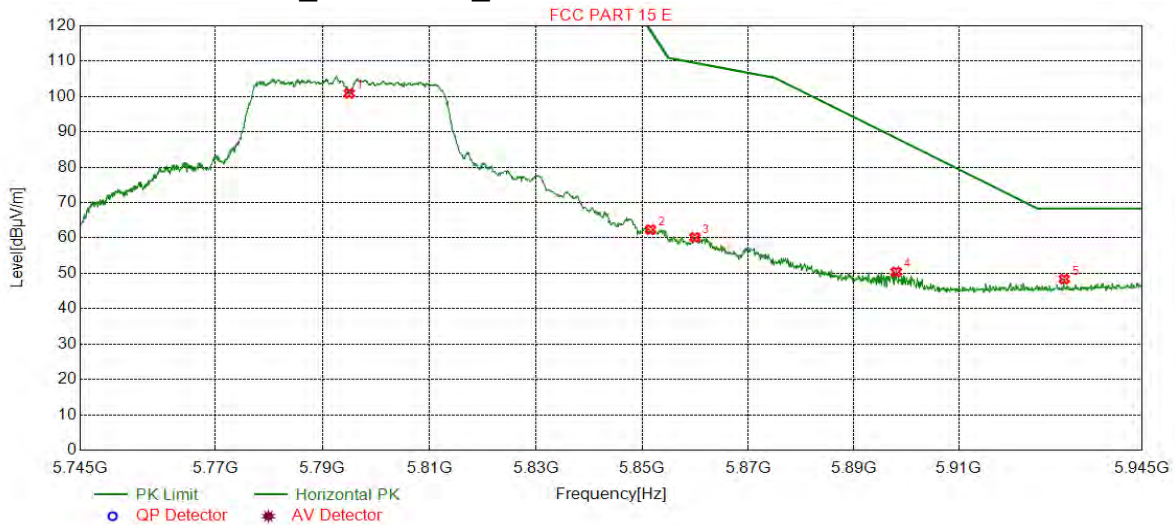
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4.10.1.90 11AC40_159 ANT 1_ Horizontal



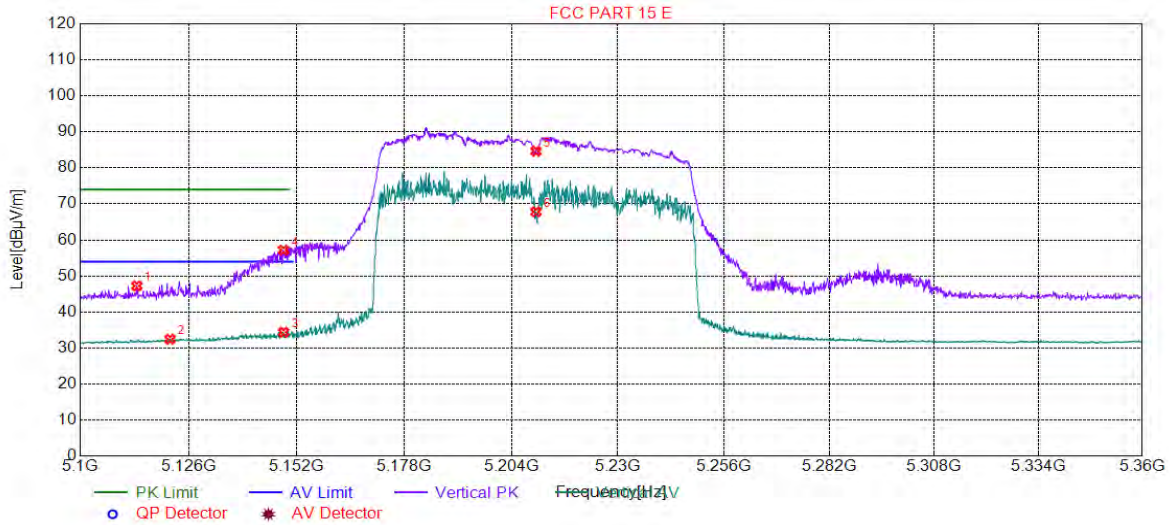
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	100.92	17.18	0.00	-100.92	150	344	Horizontal
2	5851.5533	62.37	17.26	118.76	56.39	150	344	Horizontal
3	5859.9575	60.17	17.23	109.51	49.34	150	344	Horizontal
4	5898.0765	50.42	17.12	88.22	37.80	150	344	Horizontal
5	5930.0925	48.38	17.57	68.30	19.92	150	326	Horizontal





4.10.1.91 11AC80_42 ANT 1_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.5268	47.26	15.21	74.00	26.74	150	32	Vertical
2	5121.4607	32.46	15.27	54.00	21.54	150	194	Vertical
3	5148.7744	34.39	15.51	54.00	19.61	150	32	Vertical
4	5148.7744	57.19	15.51	74.00	16.81	150	32	Vertical
5	5210.0000	84.63	15.56	0.00	-84.63	150	32	Vertical
6	5210.0000	67.80	15.56	0.00	-67.80	150	242	Vertical

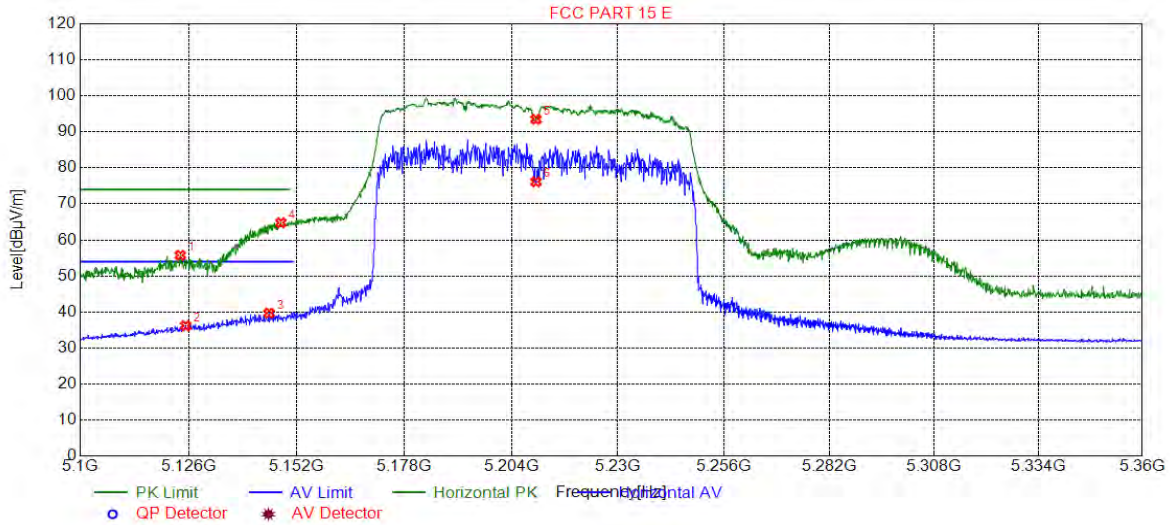


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4.10.1.92 11AC80_42 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.9320	55.75	15.30	74.00	18.25	150	348	Horizontal
2	5125.2326	36.17	15.31	54.00	17.83	150	348	Horizontal
3	5145.2626	39.69	15.48	54.00	14.31	150	348	Horizontal
4	5148.1241	64.76	15.50	74.00	9.24	150	348	Horizontal
5	5210.0000	93.46	15.56	0.00	-93.46	150	354	Horizontal
6	5210.0000	76.13	15.56	0.00	-76.13	150	359	Horizontal

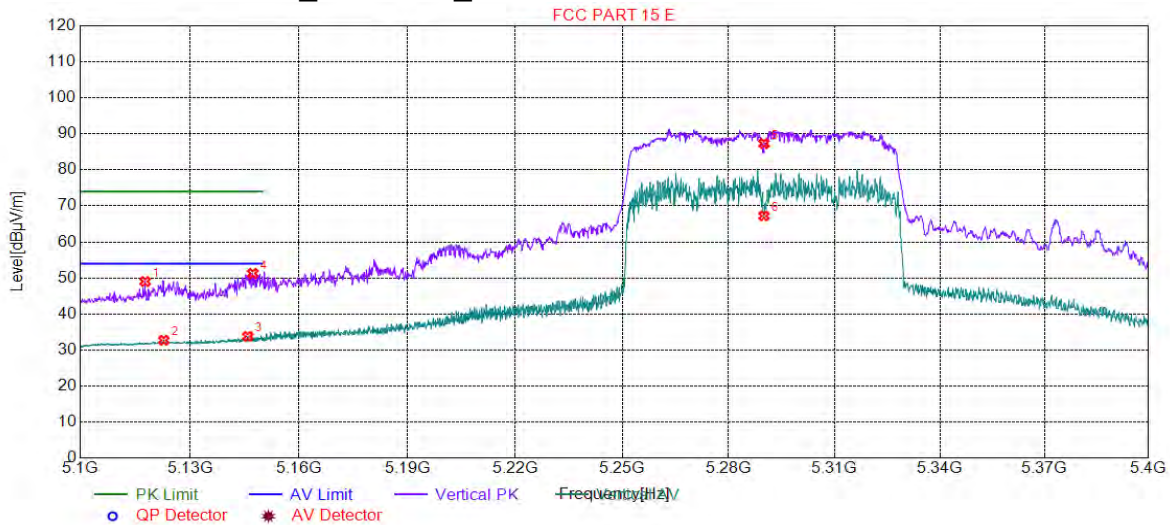


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4.10.1.93 11AC80_58 ANT 1_ Vertical



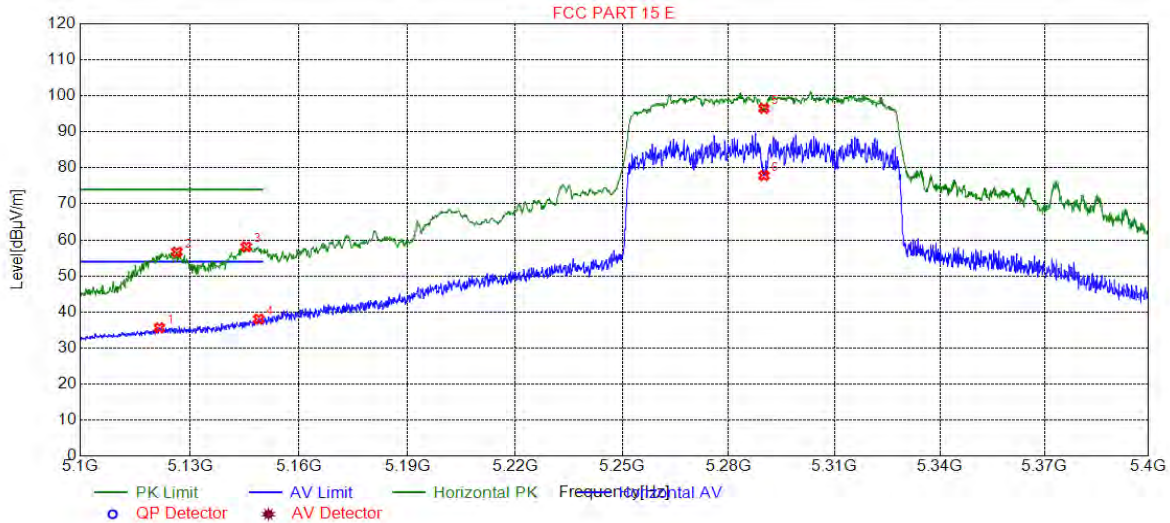
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.7089	49.02	15.24	74.00	24.98	150	34	Vertical
2	5122.8114	32.70	15.29	54.00	21.30	150	34	Vertical
3	5145.9230	33.78	15.48	54.00	20.22	150	34	Vertical
4	5147.2736	51.26	15.50	74.00	22.74	150	27	Vertical
5	5290.0000	87.32	15.65	0.00	-87.32	150	242	Vertical
6	5290.0000	67.23	15.65	0.00	-67.23	150	174	Vertical





4.10.1.94 11AC80_58 ANT 1_ Horizontal



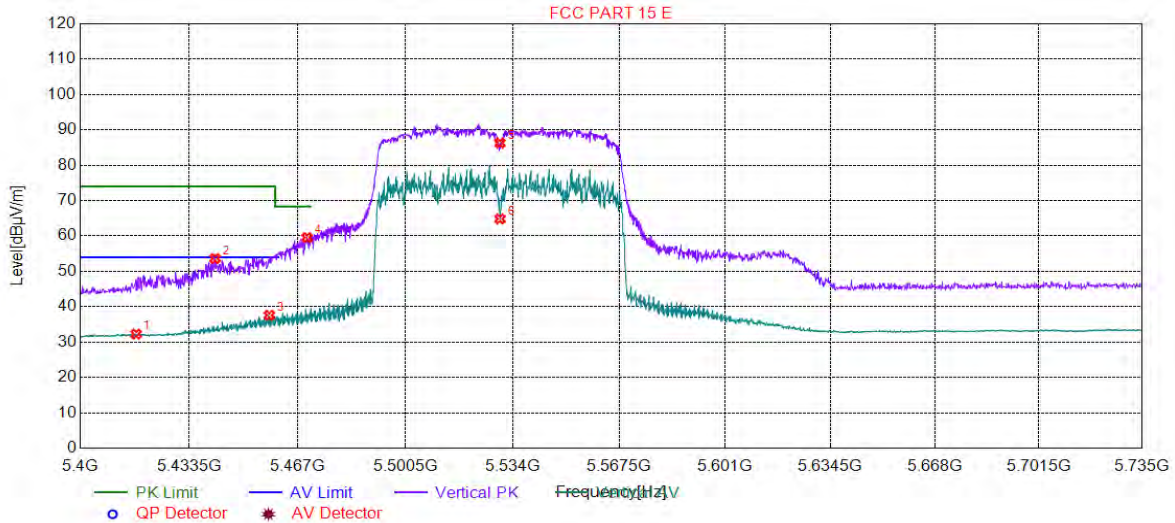
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.6108	35.61	15.28	54.00	18.39	150	16	Horizontal
2	5126.4132	56.65	15.32	74.00	17.35	150	16	Horizontal
3	5145.4727	58.11	15.48	74.00	15.89	150	352	Horizontal
4	5148.9245	38.04	15.51	54.00	15.96	150	77	Horizontal
5	5290.0000	96.53	15.65	0.00	-96.53	150	352	Horizontal
6	5290.0000	77.87	15.65	0.00	-77.87	150	358	Horizontal





4.10.1.95 11AC80_106 ANT 1_ Vertical



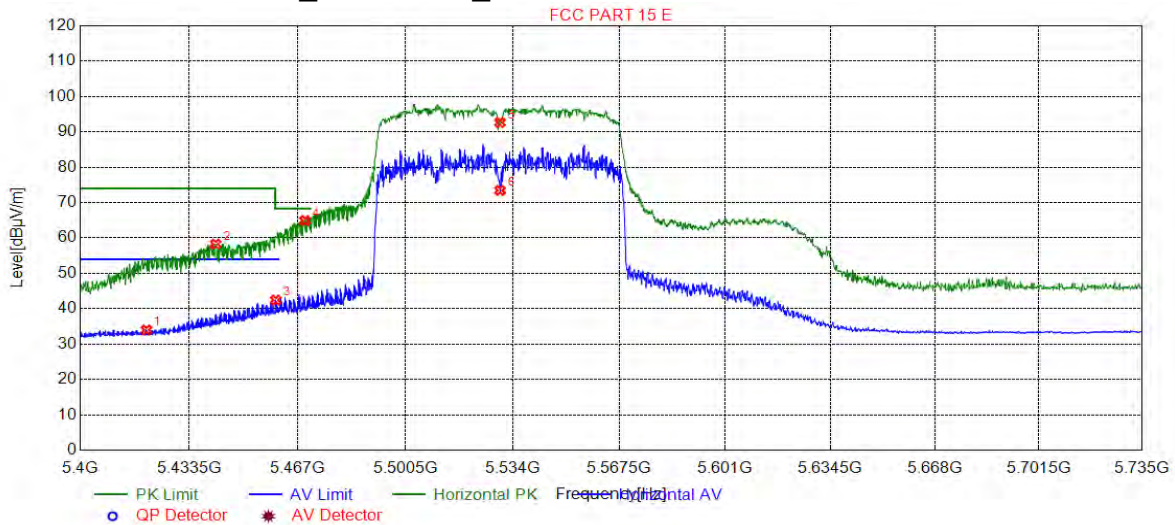
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5417.0935	32.27	16.25	54.00	21.73	150	344	Vertical
2	5441.3932	53.66	16.25	74.00	20.34	150	26	Vertical
3	5458.1516	37.57	16.25	54.00	16.43	150	33	Vertical
4	5469.8824	59.53	16.25	68.30	8.77	150	26	Vertical
5	5530.0000	86.27	16.35	0.00	-86.27	150	26	Vertical
6	5530.0000	64.84	16.35	0.00	-64.84	150	344	Vertical





4.10.1.96 11AC80_106 ANT 1_ Horizontal



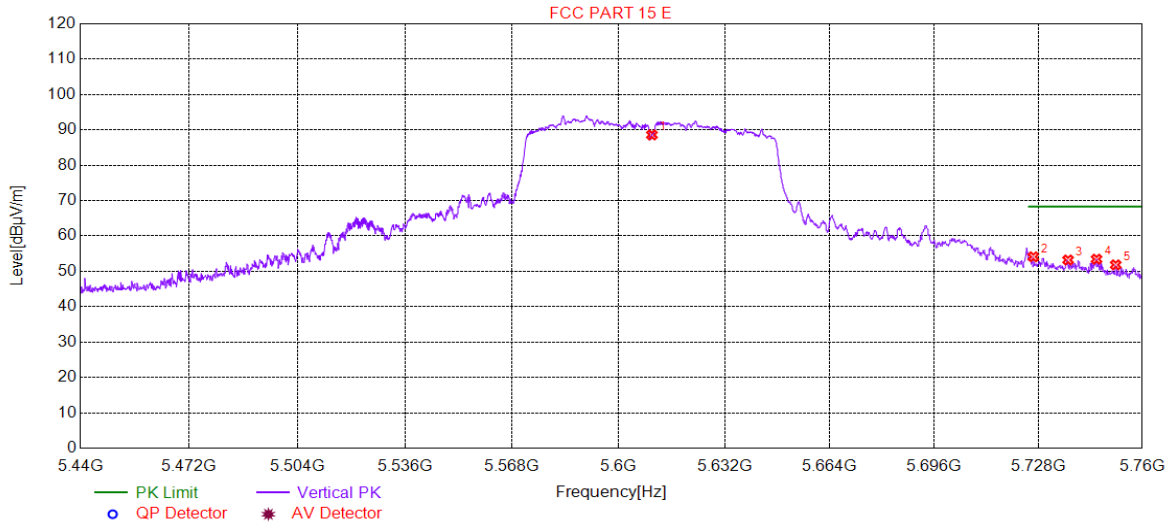
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5420.2776	33.99	16.25	54.00	20.01	150	350	Horizontal
2	5441.5608	58.28	16.25	74.00	15.72	150	350	Horizontal
3	5460.1626	42.44	16.25	54.00	11.56	150	350	Horizontal
4	5469.2121	64.91	16.25	68.30	3.39	150	350	Horizontal
5	5530.0000	92.65	16.35	0.00	-92.65	150	357	Horizontal
6	5530.0000	73.47	16.35	0.00	-73.47	150	159	Horizontal





4.10.1.97 11AC80_122 ANT 1_ Vertical



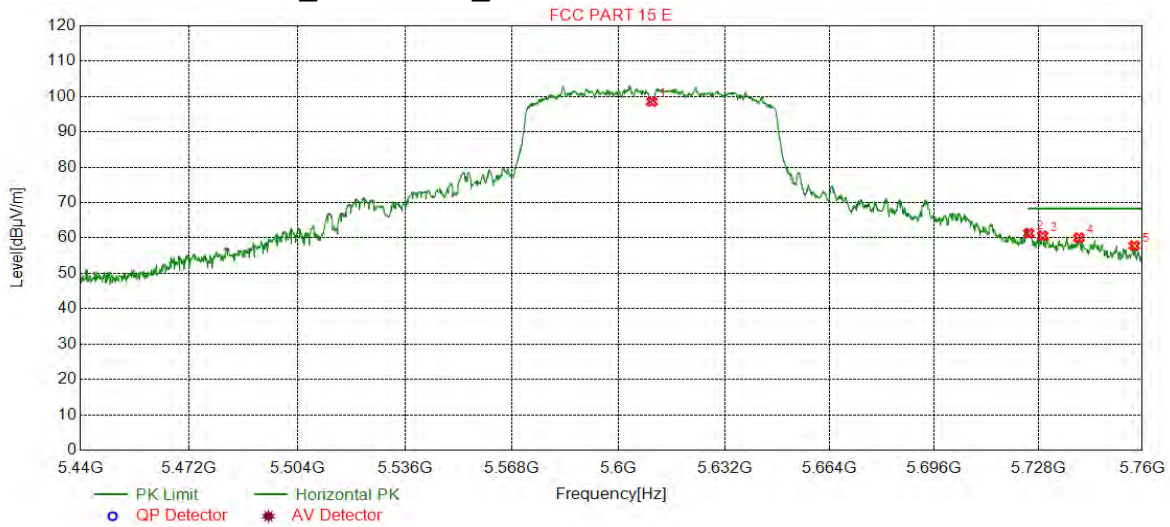
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	88.58	16.58	0.00	-88.58	150	23	Vertical
2	5726.3832	54.11	16.97	68.30	14.19	150	344	Vertical
3	5737.1086	53.22	17.04	68.30	15.08	150	344	Vertical
4	5745.9130	53.45	17.09	68.30	14.85	150	344	Vertical
5	5751.8359	51.84	17.12	68.30	16.46	150	344	Vertical





4.10.1.98 11AC80_122 ANT 1_ Horizontal



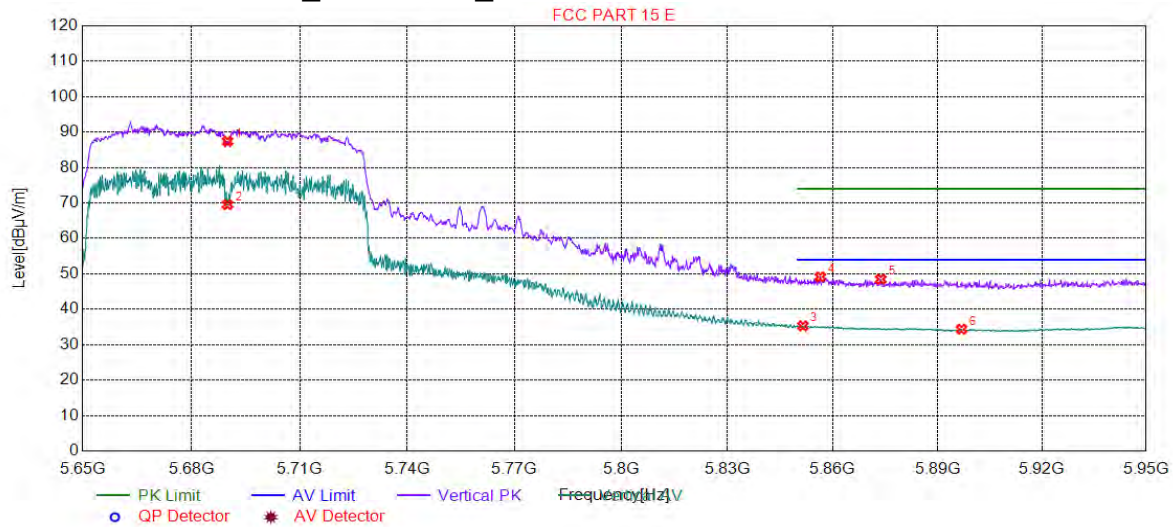
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	98.57	16.58	0.00	-98.57	150	358	Horizontal
2	5725.0000	61.36	16.96	68.30	6.94	150	355	Horizontal
3	5729.2646	60.61	16.99	68.30	7.69	150	358	Horizontal
4	5740.4702	60.06	17.06	68.30	8.24	150	355	Horizontal
5	5757.5988	57.79	17.13	68.30	10.51	150	355	Horizontal





4.10.1.99 11AC80_138 ANT 1_ Vertical



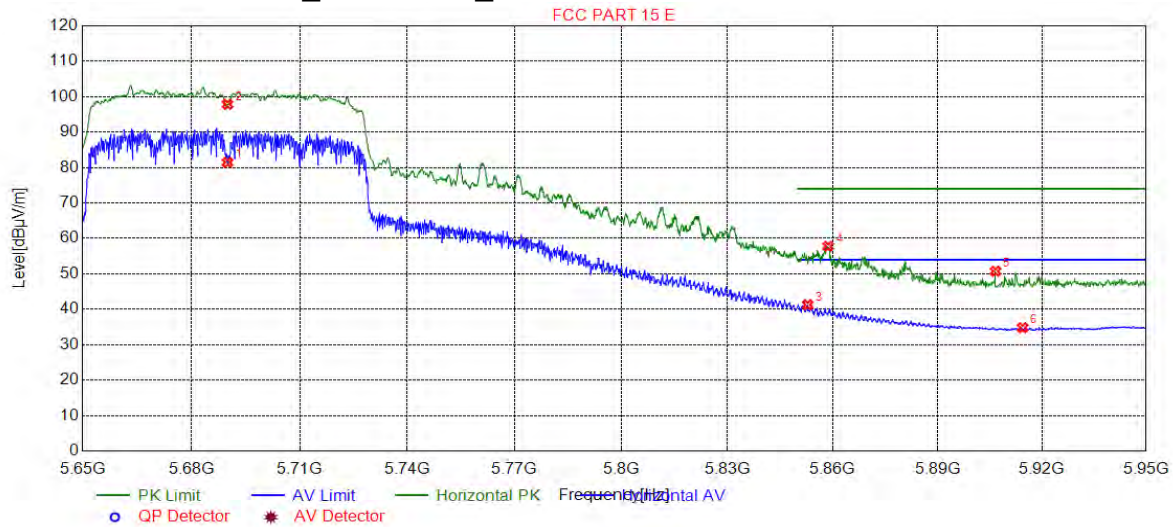
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.0000	87.40	16.75	0.00	-87.40	150	16	Vertical
2	5690.0000	69.53	16.75	0.00	-69.53	150	16	Vertical
3	5851.5508	35.32	17.26	54.00	18.68	150	57	Vertical
4	5856.5033	49.16	17.24	74.00	24.84	150	50	Vertical
5	5873.7619	48.47	17.19	74.00	25.53	150	326	Vertical
6	5896.8734	34.39	17.12	54.00	19.61	150	244	Vertical





4.10.1.100 11AC80_138 ANT 1_ Horizontal



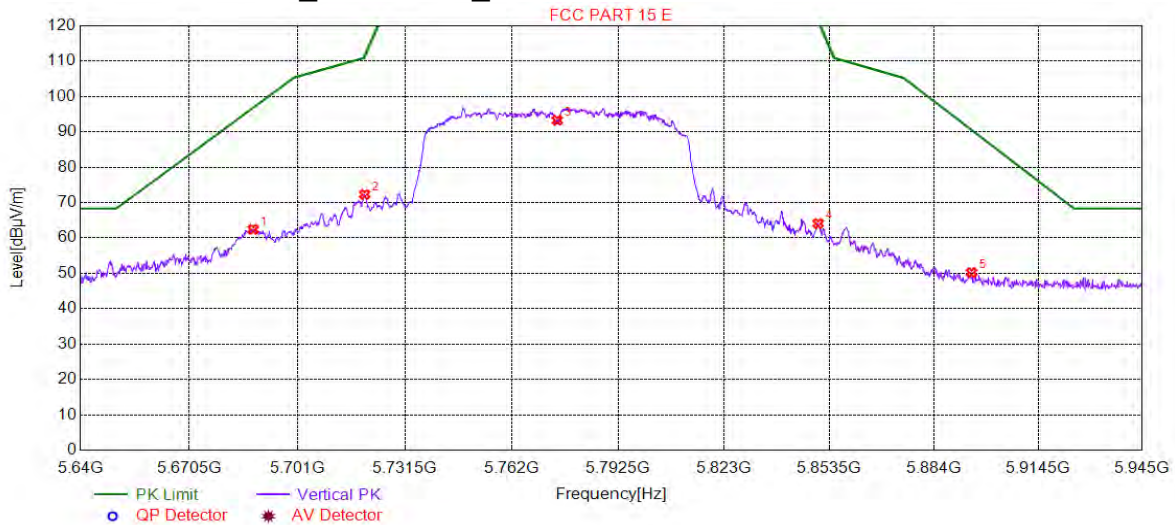
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.0000	81.45	16.75	0.00	-81.45	150	344	Horizontal
2	5690.0000	97.83	16.75	0.00	-97.83	150	69	Horizontal
3	5852.9015	41.27	17.25	54.00	12.73	150	56	Horizontal
4	5858.7544	57.75	17.23	74.00	16.25	150	49	Horizontal
5	5906.6283	50.73	17.21	74.00	23.27	150	344	Horizontal
6	5914.4322	34.79	17.33	54.00	19.21	150	56	Horizontal





4.10.1.101 11AC80_155 ANT 1_ Vertical



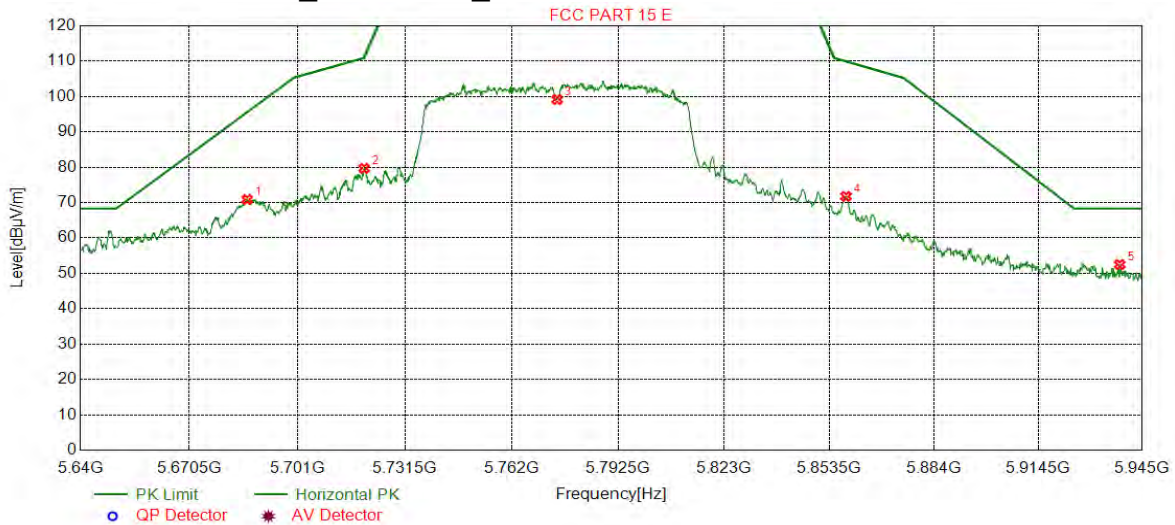
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5688.5193	62.44	16.74	96.80	34.36	150	344	Vertical
2	5720.1026	72.33	16.93	111.13	38.80	150	344	Vertical
3	5775.0000	93.28	17.16	122.30	29.02	150	344	Vertical
4	5850.2501	64.11	17.26	121.73	57.62	150	180	Vertical
5	5894.9550	50.24	17.13	90.53	40.29	150	176	Vertical





4.10.1.102 11AC80_155 ANT 1_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5686.8409	70.87	16.73	95.56	24.69	150	358	Horizontal
2	5719.9500	79.69	16.93	110.89	31.20	150	358	Horizontal
3	5775.0000	99.16	17.16	122.30	23.14	150	360	Horizontal
4	5858.3367	71.77	17.23	109.97	38.20	150	360	Horizontal
5	5938.4392	52.50	17.70	68.30	15.80	150	83	Horizontal

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.



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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5320
V nom(V)	5180.004496	5320.004955
V max(V)	5180.004752	5320.005744
V min(V)	5180.010877	5320.014636
Max. Deviation Frequency	0.010877	0.014636
Max. Frequency Error (ppm)	2.099844	2.751082

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5320
-5	5180.007476	5320.008208
5	5180.015929	5320.012376
15	5180.016843	5320.020292
25	5180.016935	5320.020434
35	5180.019487	5320.029369
45	5180.023804	5320.034712
50	5180.027623	5320.041941
Max. Deviation Frequency	0.027623	0.041941
Max. Frequency Error (ppm)	5.332583	7.883564



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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		



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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

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

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

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



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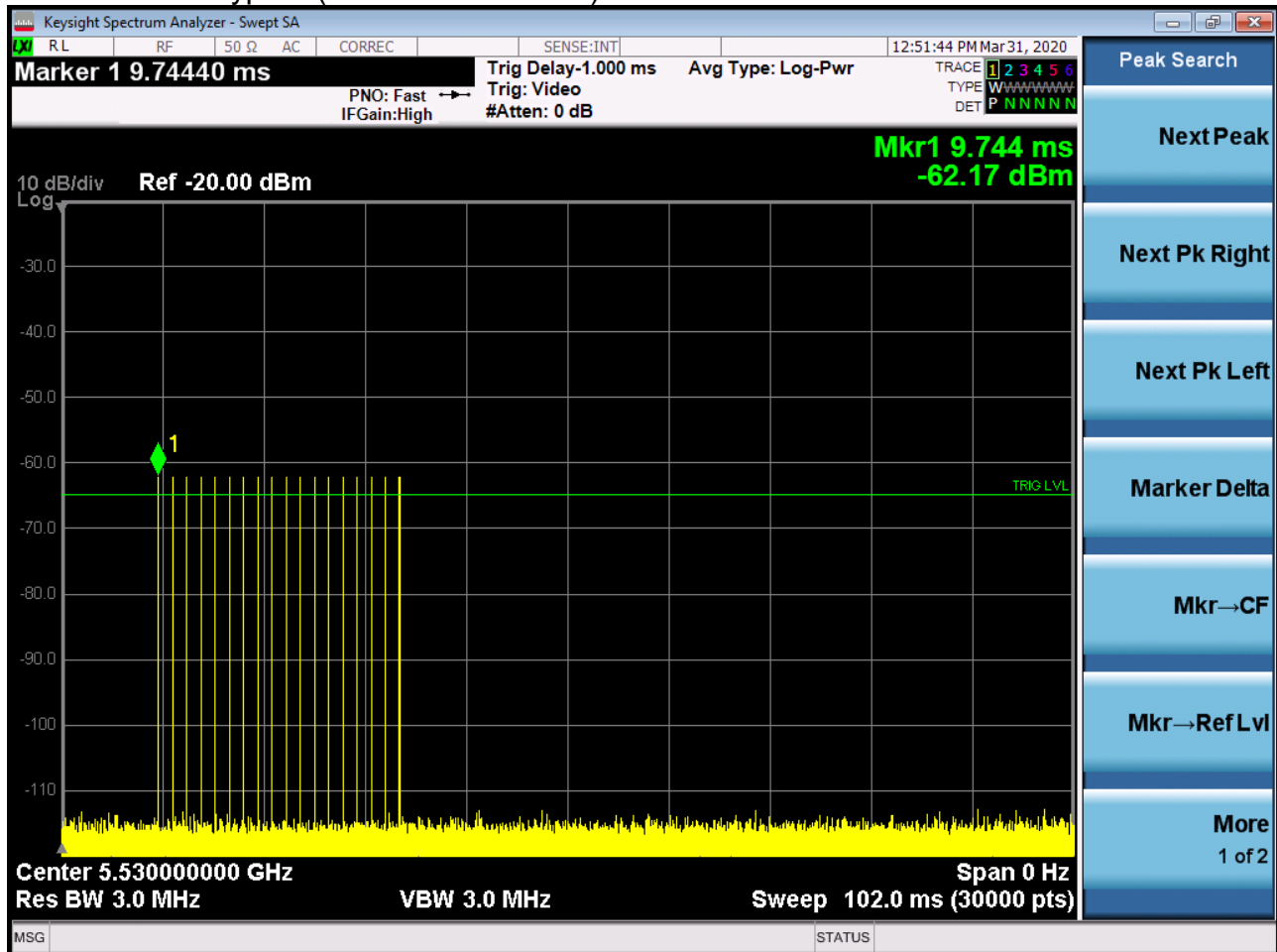
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4.12.4 Test plots

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5530MHz)



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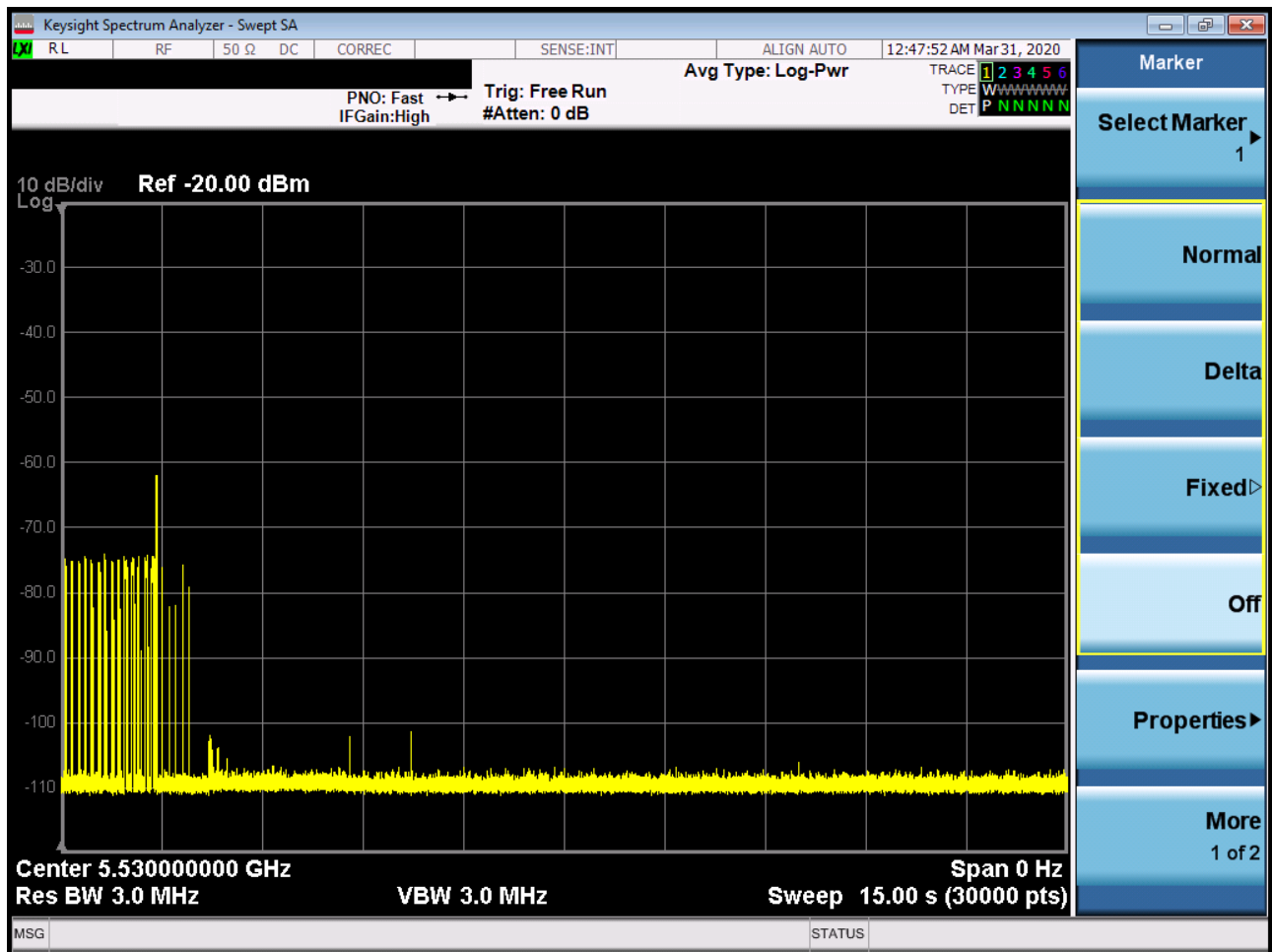


4.12.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5530MHz	Channel Move Time	0.483s	< 10s	Pass
	Channel Closing Transmission Time	1.5ms	< 60ms	Pass

4.12.5.1 Test plots

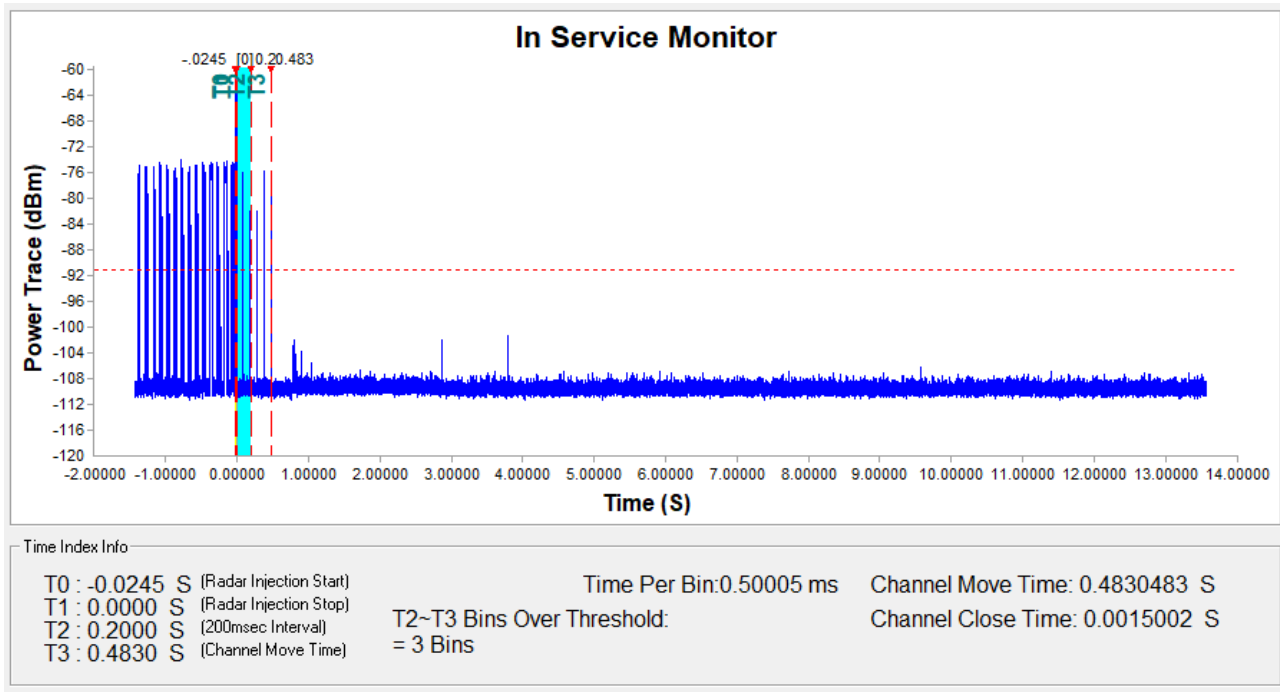
4.12.5.1.1 Test Bandwidth/Channel= 80MHz / 5530MHz



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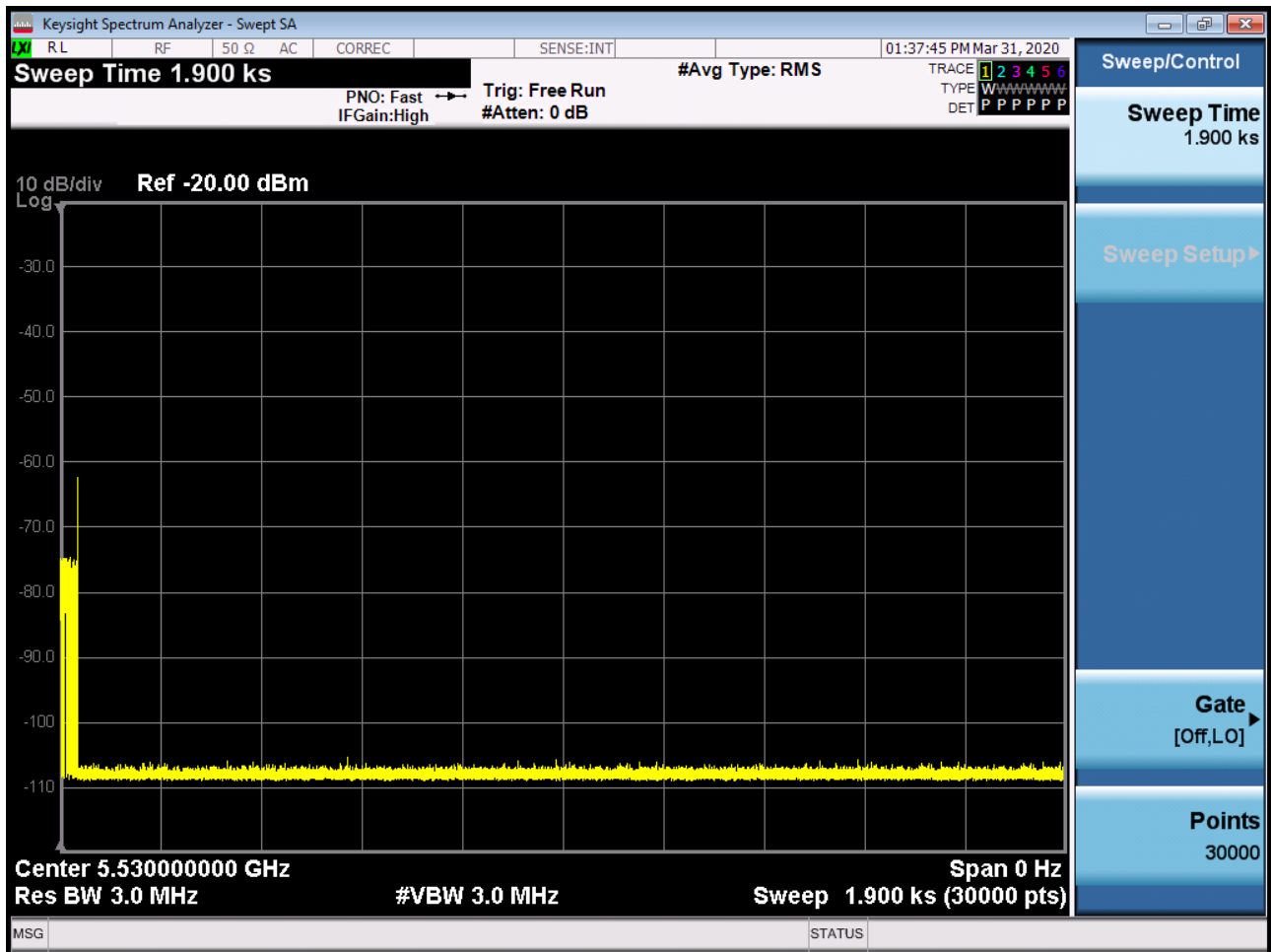
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5 Measurement Uncertainty (95% confidence levels, k=2)

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	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-25GHz)
5	Conduct emission test	$\pm 3.12\text{ dB}$ (9KHz- 30MHz)
6	Temperature test	$\pm 1^{\circ}\text{C}$
7	Humidity test	$\pm 3\%$
8	DC and low frequency voltages	$\pm 0.5\%$



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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2019/2/11	2020/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2019/2/11	2020/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1
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	2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A





RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2019/6/12	2020/6/11
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2019/4/12	2020/4/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/7/14	2020/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/11/20	2019/11/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11

7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/20031.

The End



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