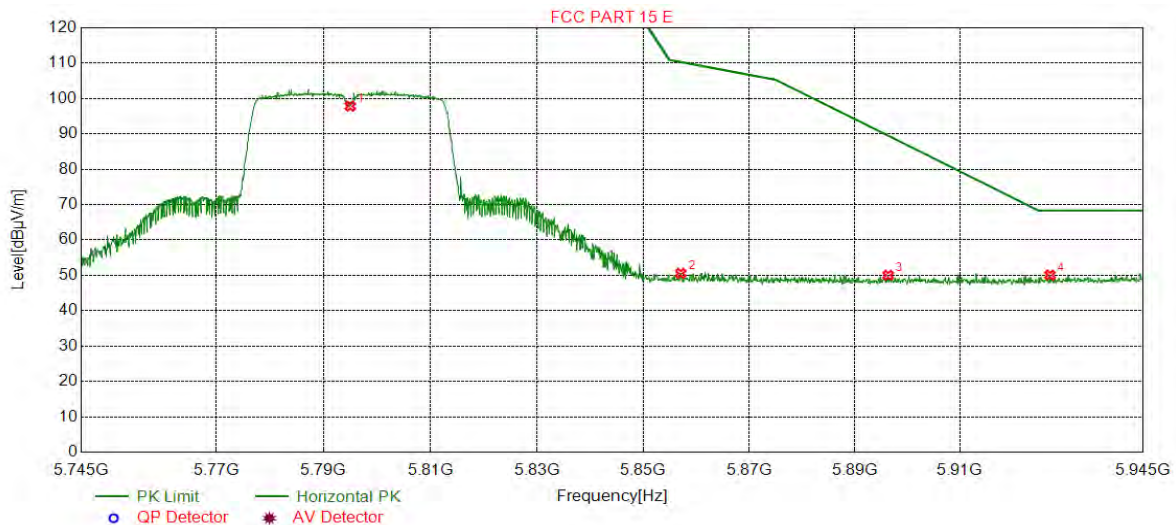


4.4.1.48 11N40_159 ANT 1 _ Horizontal

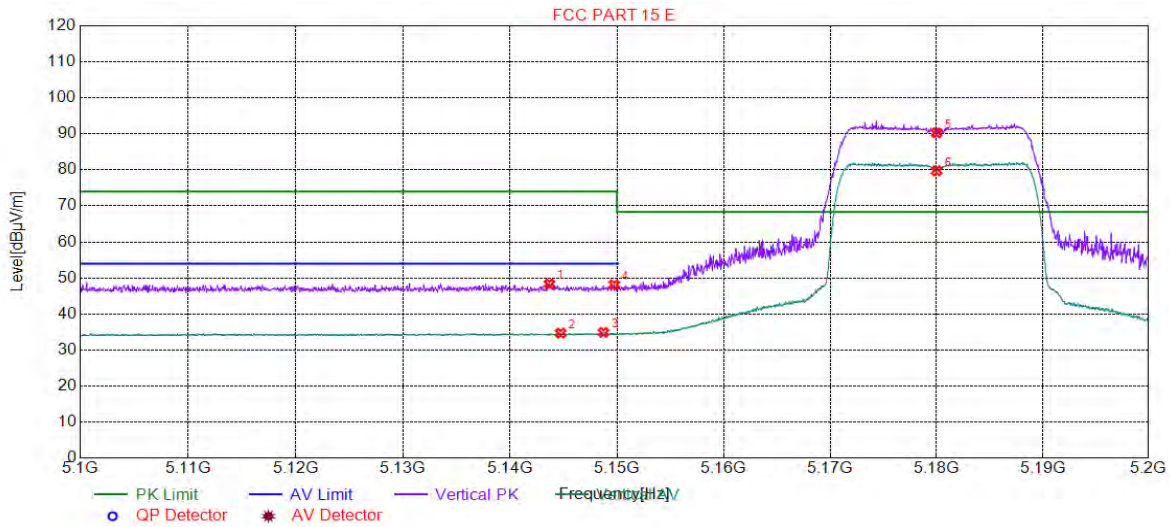


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	97.83	8.73	0.00	-97.83	150	216	Horizontal
2	5857.05	50.58	8.91	110.32	59.74	150	223	Horizontal
3	5896.37	50.03	9.03	89.48	39.45	150	348	Horizontal
4	5927.19	50.07	9.12	68.30	18.23	150	360	Horizontal

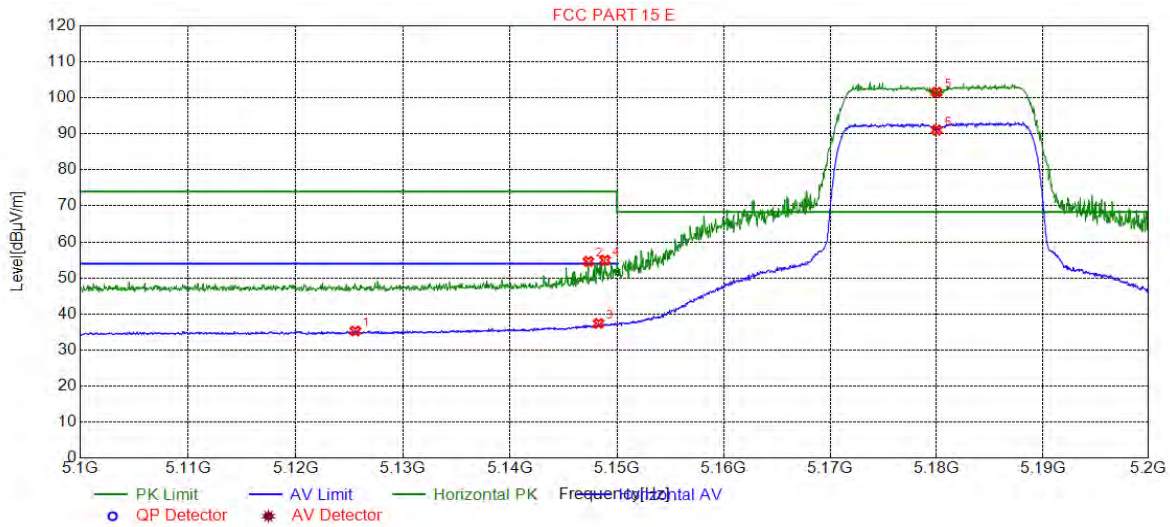


4.4.1.49 11AC20_36 ANT 1 _Vertical



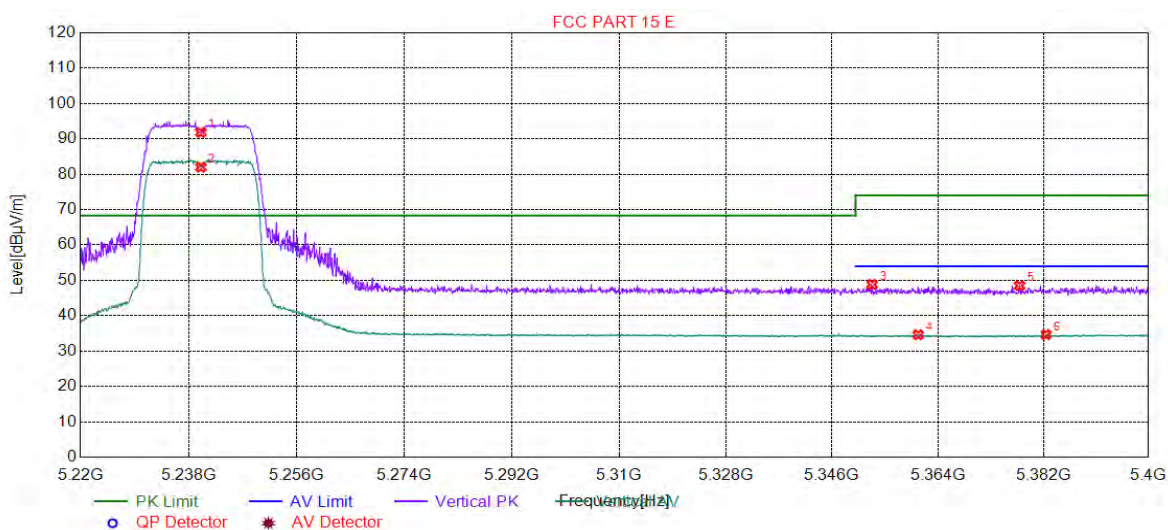
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5143.67	48.35	7.54	74.00	25.65	150	282	Vertical
2	5144.72	34.69	7.55	54.00	19.31	150	12	Vertical
3	5148.72	34.89	7.55	54.00	19.11	150	179	Vertical
4	5149.72	48.12	7.55	74.00	25.88	150	191	Vertical
5	5180.00	90.27	7.61	68.30	-21.97	150	187	Vertical
6	5180.00	79.76	7.61	0.00	-79.76	150	194	Vertical

4.4.1.50 11AC20_36 ANT 1 _ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5125.56	35.28	7.51	54.00	18.72	150	220	Horizontal
2	5147.32	54.61	7.55	74.00	19.39	150	228	Horizontal
3	5148.27	37.37	7.55	54.00	16.63	150	224	Horizontal
4	5148.87	54.95	7.55	74.00	19.05	150	224	Horizontal
5	5180.00	101.53	7.61	68.30	-33.23	150	220	Horizontal
6	5180.00	91.07	7.61	0.00	-91.07	150	224	Horizontal

4.4.1.51 11AC20_48 ANT 1 _Vertical

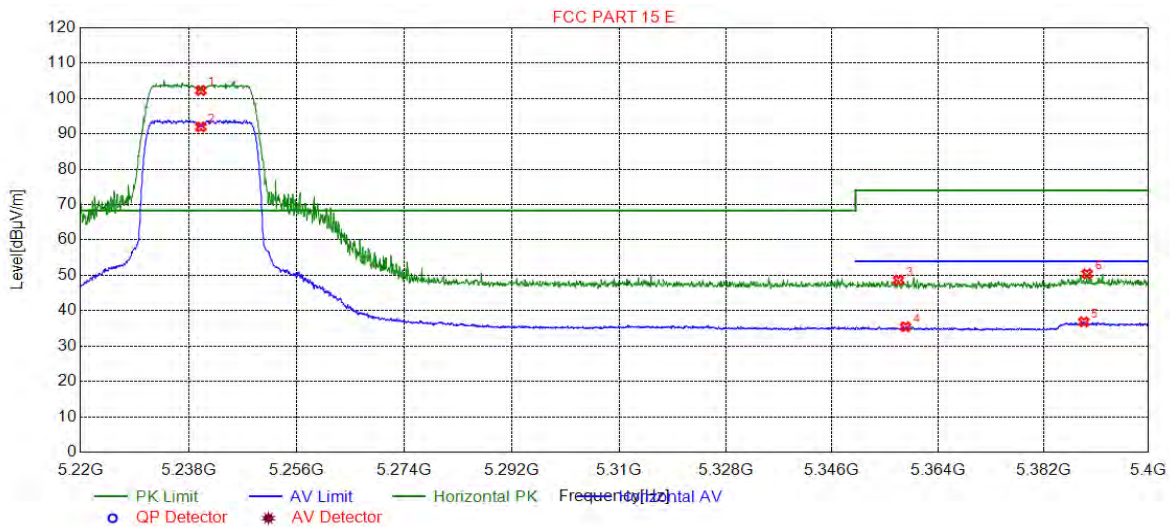


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	91.84	7.68	68.30	-23.54	150	192	Vertical
2	5240.00	81.99	7.68	0.00	-81.99	150	192	Vertical
3	5352.81	48.83	7.85	74.00	25.17	150	35	Vertical
4	5360.65	34.60	7.86	54.00	19.40	150	235	Vertical
5	5377.93	48.49	7.90	74.00	25.51	150	69	Vertical
6	5382.44	34.67	7.90	54.00	19.33	150	164	Vertical



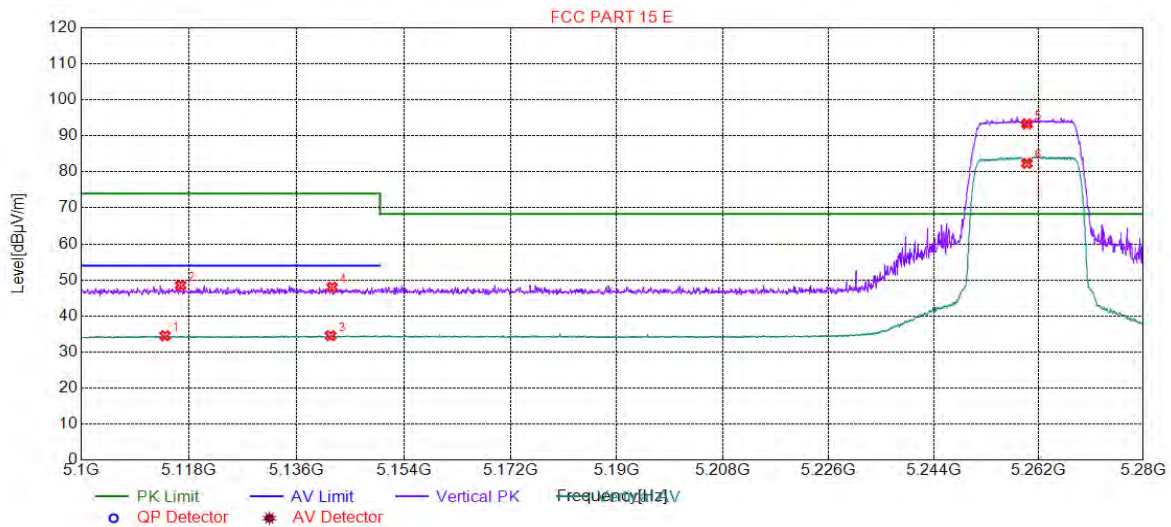
4.4.1.52 11AC20_48 ANT 1 _ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	102.27	7.68	68.30	-33.97	150	225	Horizontal
2	5240.00	91.98	7.68	0.00	-91.98	150	225	Horizontal
3	5357.31	48.67	7.85	74.00	25.33	150	220	Horizontal
4	5358.48	35.46	7.86	54.00	18.54	150	216	Horizontal
5	5388.92	36.86	7.92	54.00	17.14	150	220	Horizontal
6	5389.46	50.43	7.92	74.00	23.57	150	225	Horizontal

4.4.1.53 11AC20_52 ANT 1 _Vertical

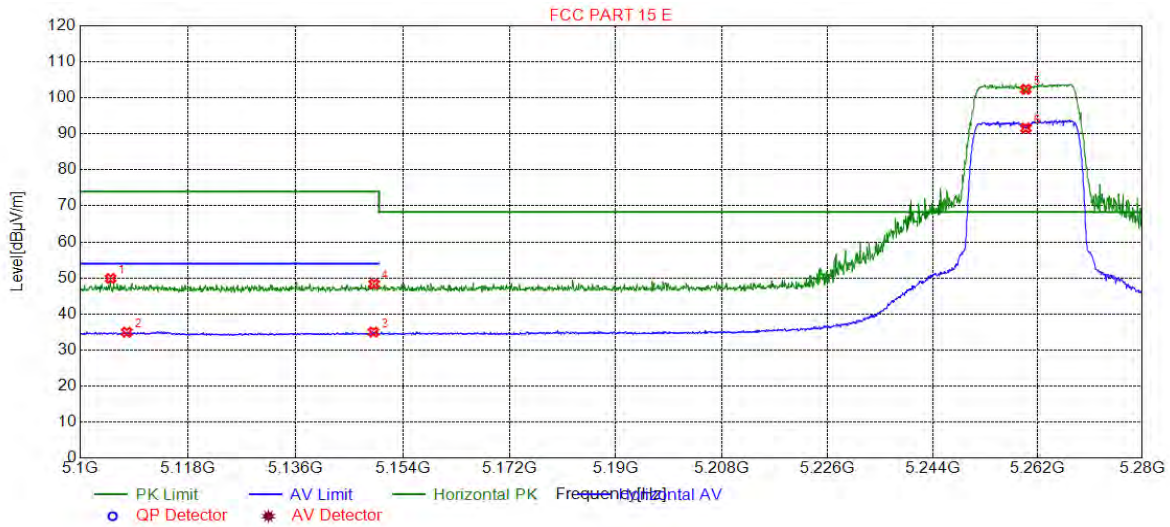


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.95	34.53	7.49	54.00	19.47	150	145	Vertical
2	5116.56	48.52	7.50	74.00	25.48	150	278	Vertical
3	5141.69	34.53	7.54	54.00	19.47	150	344	Vertical
4	5141.96	48.01	7.54	74.00	25.99	150	68	Vertical
5	5260.00	93.32	7.70	68.30	-25.02	150	197	Vertical
6	5260.00	82.38	7.70	0.00	-82.38	150	192	Vertical

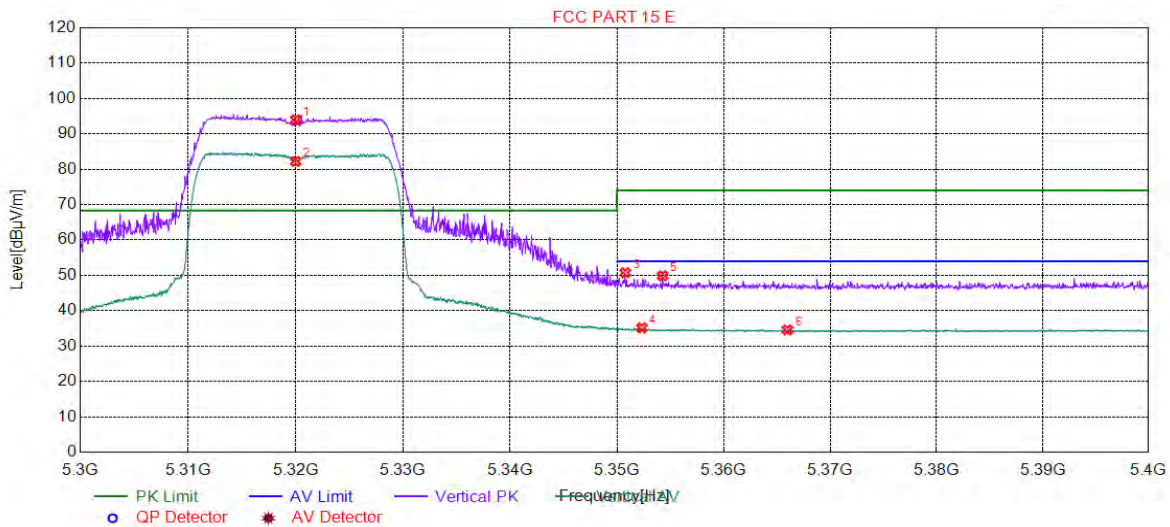


4.4.1.54 11AC20_52 ANT 1 _ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5105.04	49.87	7.48	74.00	24.13	150	65	Horizontal
2	5107.74	34.95	7.48	54.00	19.05	150	228	Horizontal
3	5149.07	34.98	7.55	54.00	19.02	150	223	Horizontal
4	5149.16	48.34	7.55	74.00	25.66	150	166	Horizontal
5	5260.00	102.38	7.70	68.30	-34.08	150	223	Horizontal
6	5260.00	91.60	7.70	0.00	-91.60	150	228	Horizontal

4.4.1.55 11AC20_64 ANT 1 _Vertical

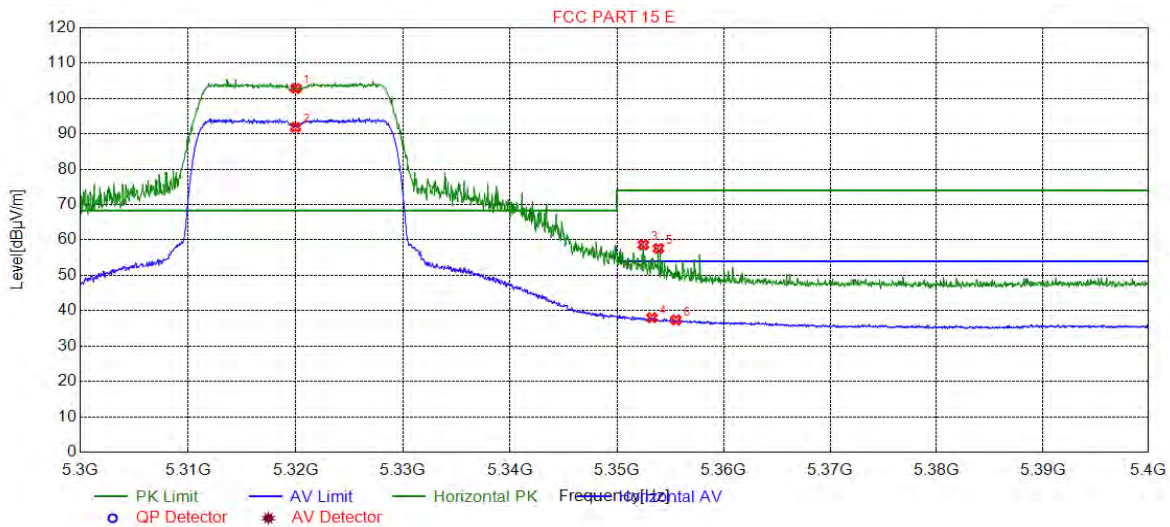


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	93.98	7.78	68.30	-25.68	150	177	Vertical
2	5320.00	82.23	7.78	0.00	-82.23	150	182	Vertical
3	5350.77	50.73	7.84	74.00	23.27	150	186	Vertical
4	5352.32	35.15	7.84	54.00	18.85	150	191	Vertical
5	5354.27	49.87	7.85	74.00	24.13	150	186	Vertical
6	5365.98	34.57	7.87	54.00	19.43	150	96	Vertical



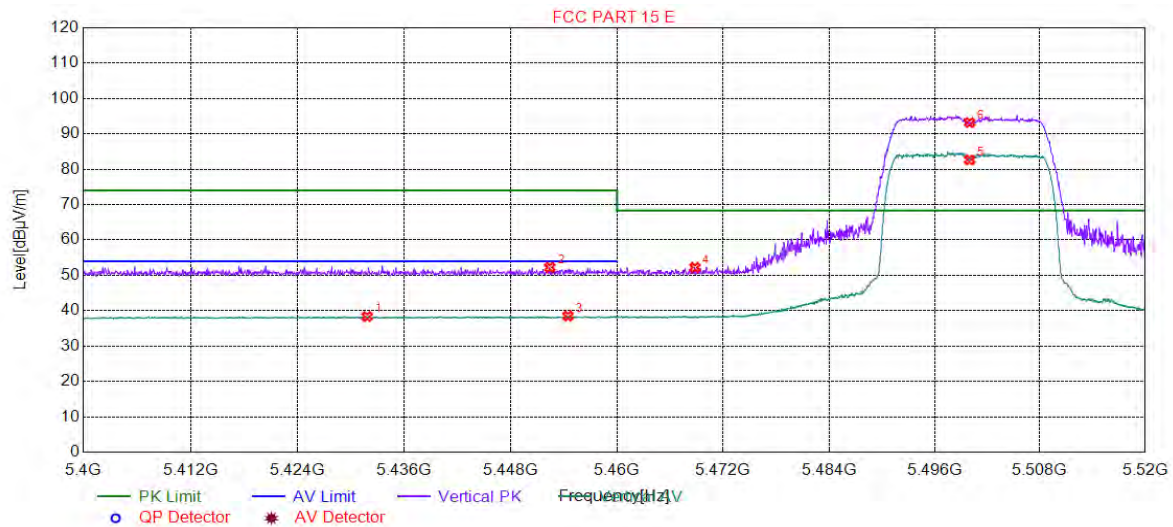
4.4.1.56 11AC20_64 ANT 1 _ Horizontal



Suspected List

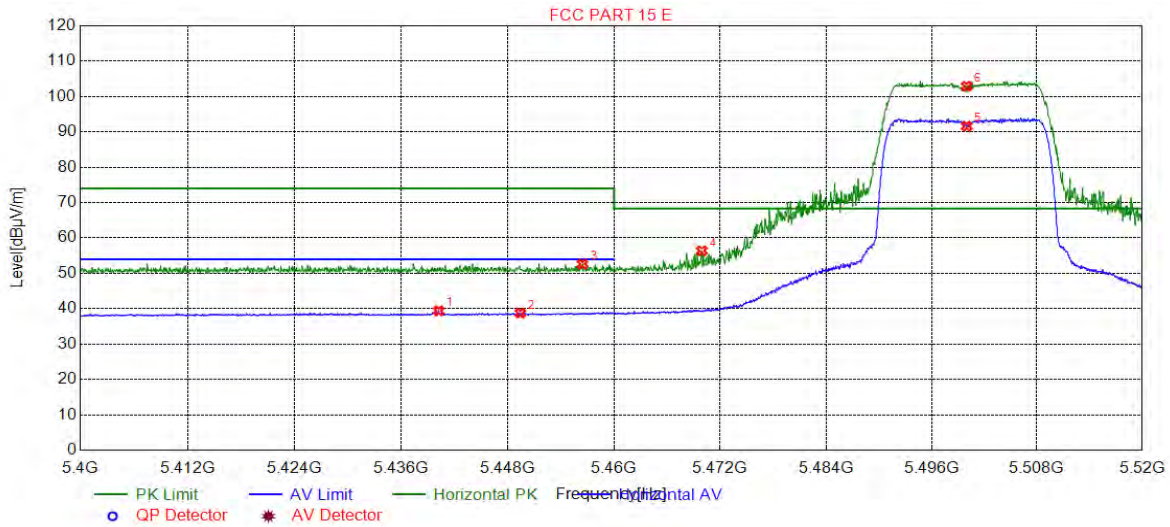
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	102.83	7.78	68.30	-34.53	150	228	Horizontal
2	5320.00	91.88	7.78	0.00	-91.88	150	223	Horizontal
3	5352.47	58.66	7.84	74.00	15.34	150	233	Horizontal
4	5353.27	38.01	7.85	54.00	15.99	150	219	Horizontal
5	5353.87	57.60	7.85	74.00	16.40	150	190	Horizontal
6	5355.52	37.40	7.85	54.00	16.60	150	219	Horizontal

4.4.1.57 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	5431.81	38.34	7.99	54.00	15.66	150	7	Vertical
2	5452.40	52.26	8.02	74.00	21.74	150	187	Vertical
3	5454.44	38.49	8.03	54.00	15.51	150	152	Vertical
4	5468.79	52.21	8.05	68.30	16.09	150	3	Vertical
5	5500.00	82.65	8.10	0.00	-82.65	150	187	Vertical
6	5500.00	93.19	8.10	68.30	-24.89	150	183	Vertical

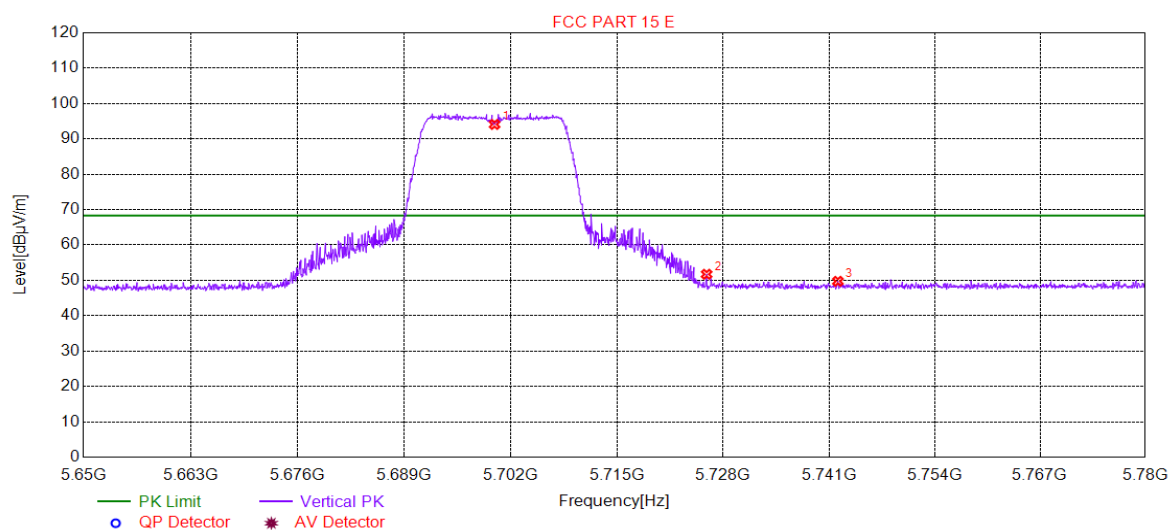
4.4.1.58 11AC20_100 ANT 1 _ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5440.22	39.41	8.00	54.00	14.59	150	217	Horizontal
2	5449.40	38.77	8.02	54.00	15.23	150	221	Horizontal
3	5456.42	52.63	8.03	74.00	21.37	150	90	Horizontal
4	5469.93	56.39	8.05	68.30	11.91	150	205	Horizontal
5	5500.00	91.63	8.10	0.00	-91.63	150	225	Horizontal
6	5500.00	102.93	8.10	68.30	-34.63	150	228	Horizontal



4.4.1.59 11AC20_140 ANT 1 _Vertical

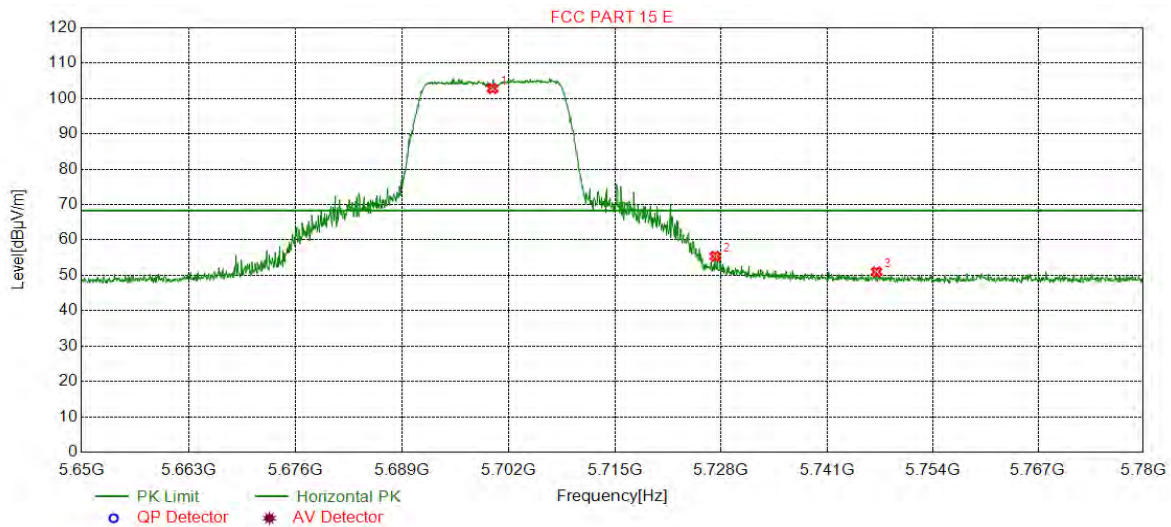


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	94.08	8.51	68.30	-25.78	150	203	Vertical
2	5725.95	51.73	8.57	68.30	16.57	150	192	Vertical
3	5742.08	49.74	8.61	68.30	18.56	150	192	Vertical



4.4.1.60 11AC20_140 ANT 1 _ Horizontal

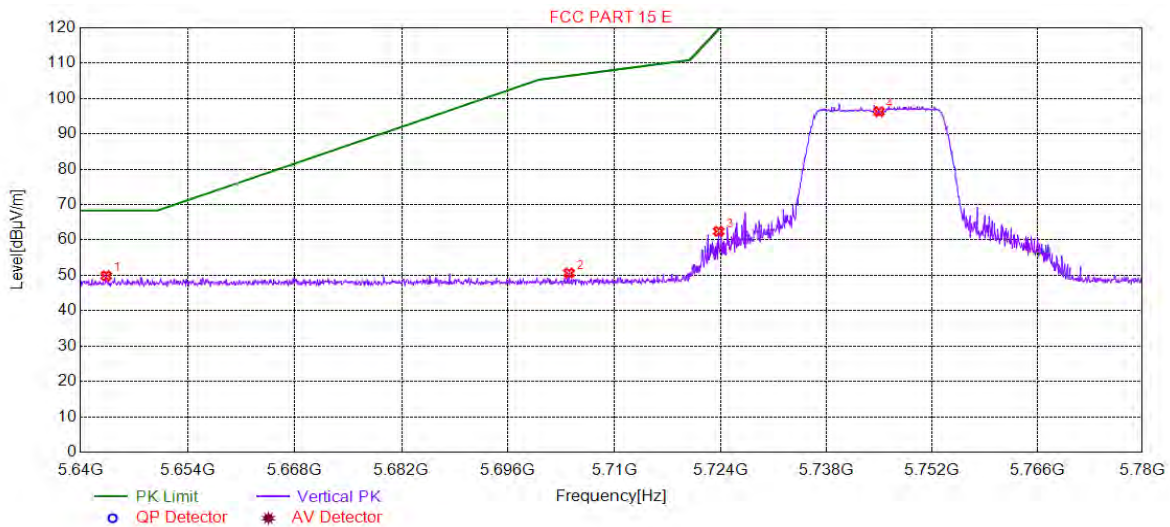


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	102.80	8.51	68.30	-34.50	150	226	Horizontal
2	5727.25	55.41	8.57	68.30	12.89	150	226	Horizontal
3	5747.09	50.99	8.62	68.30	17.31	150	226	Horizontal



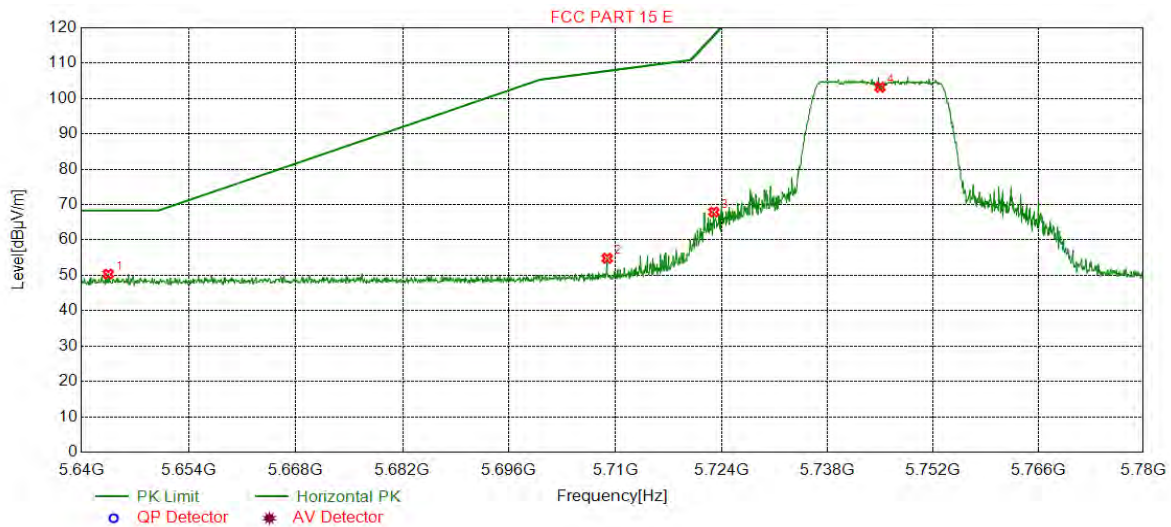
4.4.1.61 11AC20_149 ANT 1 _Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.36	49.88	8.42	68.30	18.42	150	214	Vertical
2	5704.01	50.65	8.52	106.42	55.77	150	133	Vertical
3	5723.76	62.44	8.56	119.48	57.04	150	193	Vertical
4	5745.00	96.26	8.61	0.00	-96.26	150	193	Vertical

4.4.1.62 11AC20_149 ANT 1 _ Horizontal

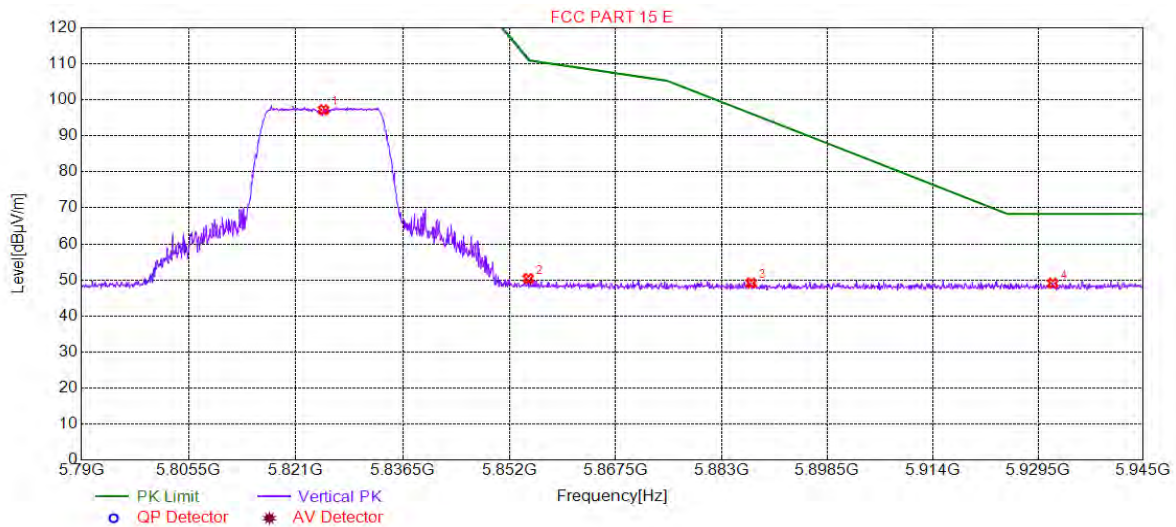


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.50	50.37	8.42	68.30	17.93	150	219	Horizontal
2	5708.91	54.83	8.53	107.80	52.97	150	233	Horizontal
3	5722.99	67.91	8.56	117.72	49.81	150	66	Horizontal
4	5745.00	103.20	8.61	0.00	-103.20	150	233	Horizontal



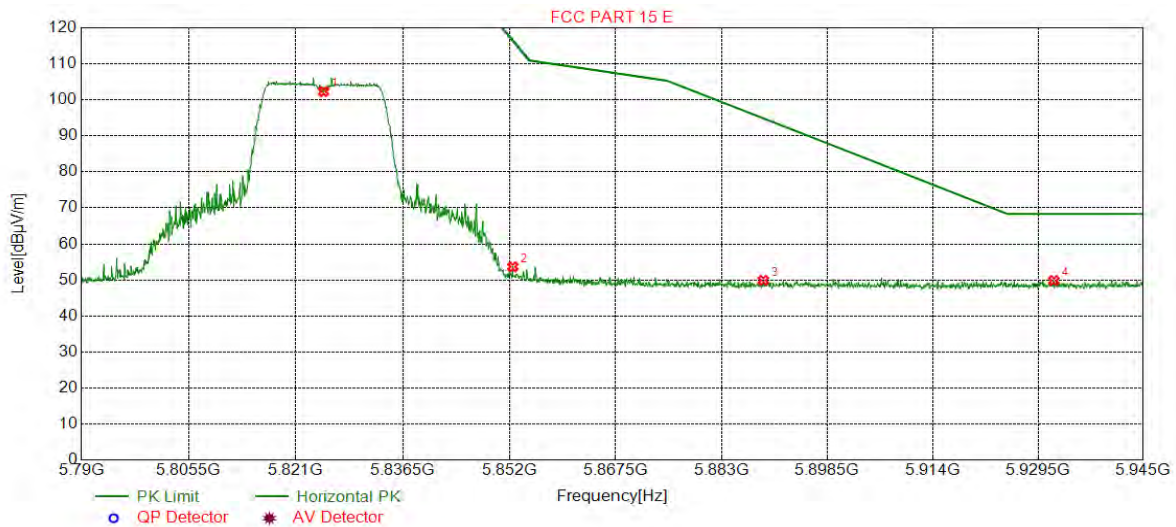
4.4.1.63 11AC20_165 ANT 1 _Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	97.21	8.82	0.00	-97.21	150	196	Vertical
2	5854.74	50.39	8.90	111.48	61.09	150	188	Vertical
3	5887.31	49.15	9.00	96.19	47.04	150	4	Vertical
4	5931.66	49.09	9.13	68.30	19.21	150	115	Vertical

4.4.1.64 11AC20_165 ANT 1 _ Horizontal

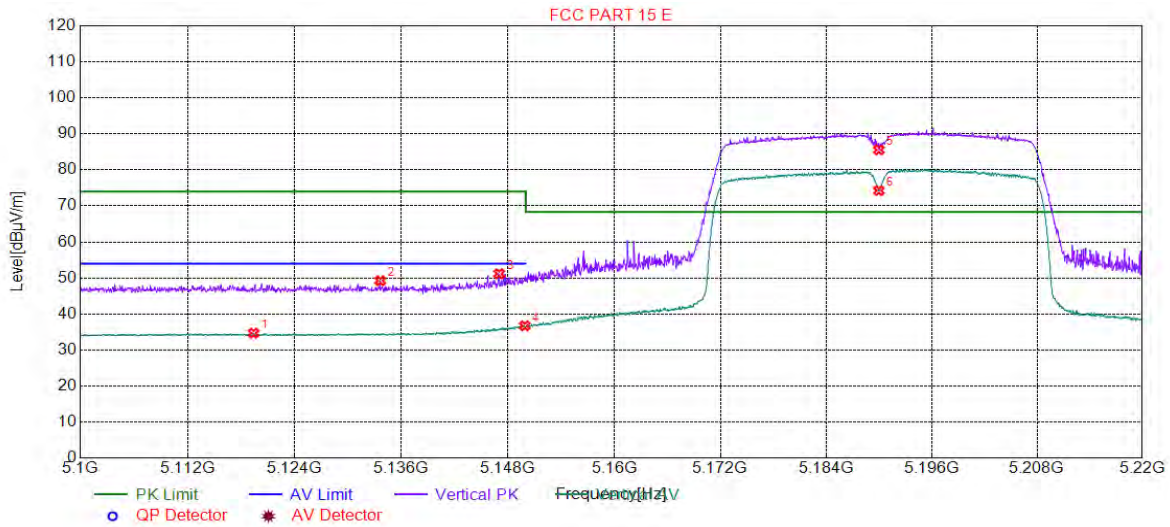


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	102.29	8.82	0.00	-102.29	150	225	Horizontal
2	5852.49	53.65	8.90	116.61	62.96	150	70	Horizontal
3	5889.09	49.90	9.01	94.87	44.97	150	293	Horizontal
4	5931.81	49.84	9.14	68.30	18.46	150	183	Horizontal



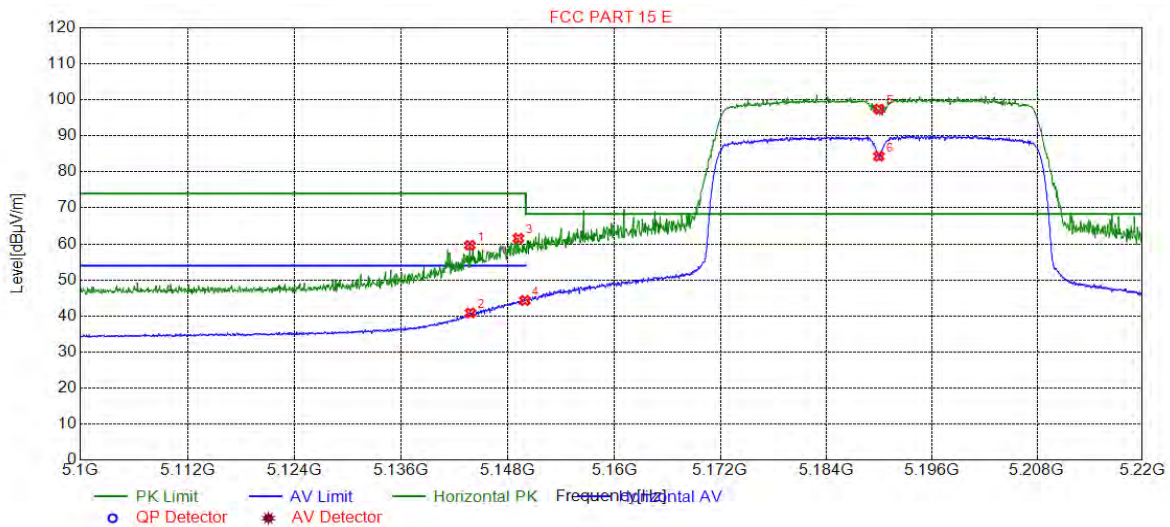
4.4.1.65 11AC40_38 ANT 1 _ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5119.38	34.68	7.50	54.00	19.32	150	172	Vertical
2	5133.61	49.25	7.53	74.00	24.75	150	220	Vertical
3	5147.00	51.17	7.55	74.00	22.83	150	201	Vertical
4	5149.88	36.71	7.55	54.00	17.29	150	191	Vertical
5	5190.00	85.55	7.62	68.30	-17.25	150	172	Vertical
6	5190.00	74.24	7.62	0.00	-74.24	150	196	Vertical

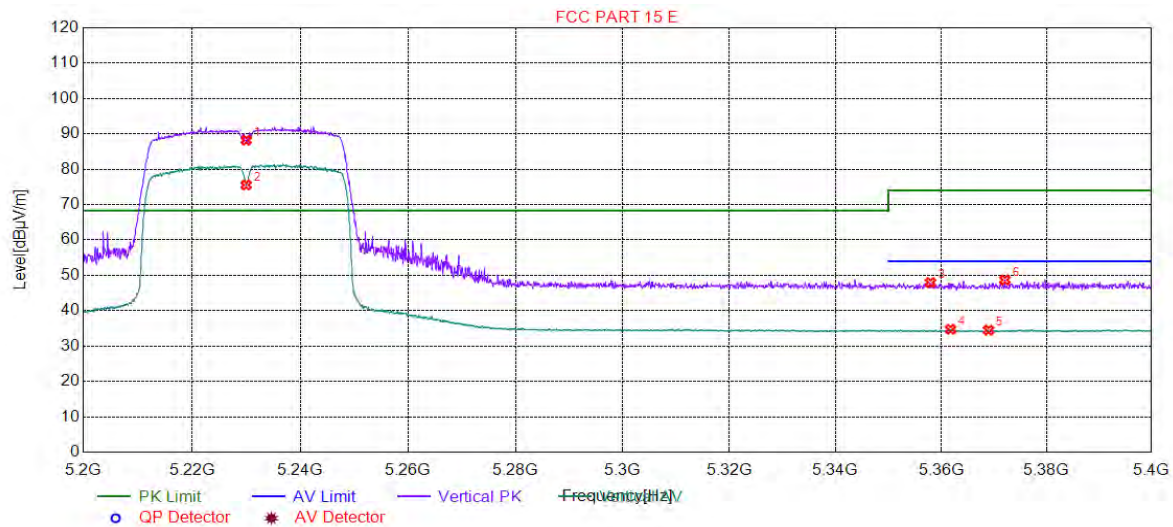
4.4.1.66 11AC40_38 ANT 1 _ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5143.70	59.61	7.54	74.00	14.39	150	227	Horizontal
2	5143.76	40.86	7.54	54.00	13.14	150	231	Horizontal
3	5149.16	61.55	7.55	74.00	12.45	150	227	Horizontal
4	5149.90	44.29	7.55	54.00	9.71	150	231	Horizontal
5	5190.00	97.44	7.62	68.30	-29.14	150	227	Horizontal
6	5190.00	84.32	7.62	0.00	-84.32	150	227	Horizontal

4.4.1.67 11AC40_46 ANT 1 _ Vertical

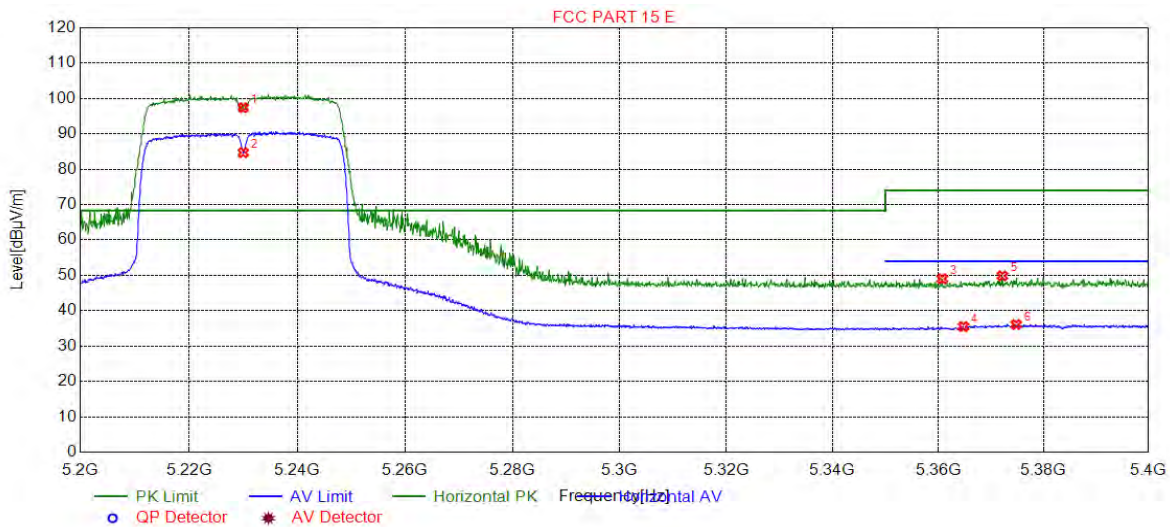


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	88.21	7.67	68.30	-19.91	150	183	Vertical
2	5230.00	75.55	7.67	0.00	-75.55	150	202	Vertical
3	5357.97	47.95	7.86	74.00	26.05	150	45	Vertical
4	5361.78	34.75	7.86	54.00	19.25	150	264	Vertical
5	5368.98	34.51	7.88	54.00	19.49	150	93	Vertical
6	5372.08	48.72	7.88	74.00	25.28	150	220	Vertical



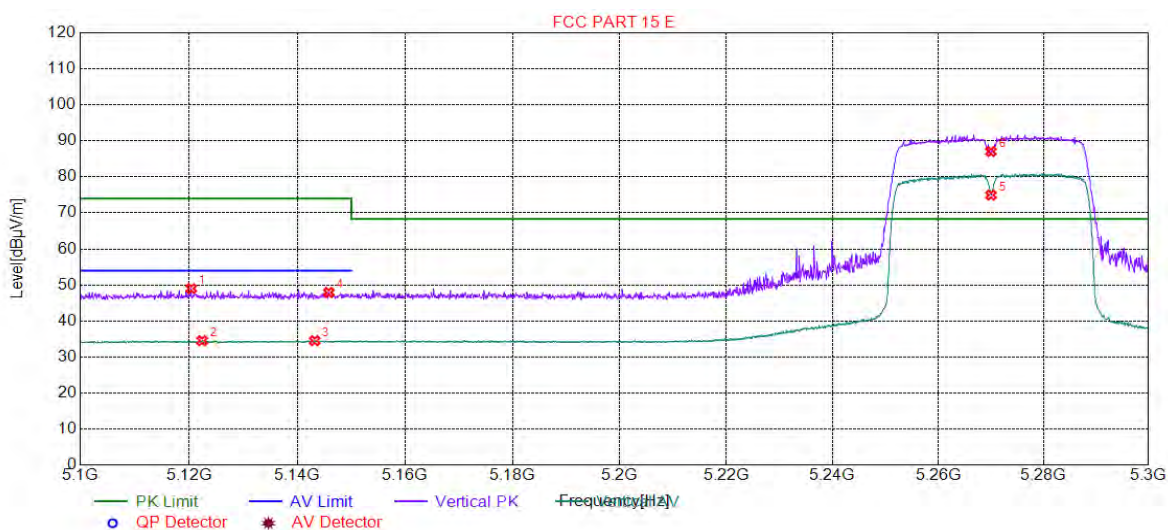
4.4.1.68 11AC40_46 ANT 1 _ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	97.41	7.67	68.30	-29.11	150	232	Horizontal
2	5230.00	84.70	7.67	0.00	-84.70	150	223	Horizontal
3	5360.78	49.02	7.86	74.00	24.98	150	199	Horizontal
4	5364.78	35.52	7.87	54.00	18.48	150	228	Horizontal
5	5372.18	49.86	7.88	74.00	24.14	150	223	Horizontal
6	5374.78	36.10	7.89	54.00	17.90	150	223	Horizontal

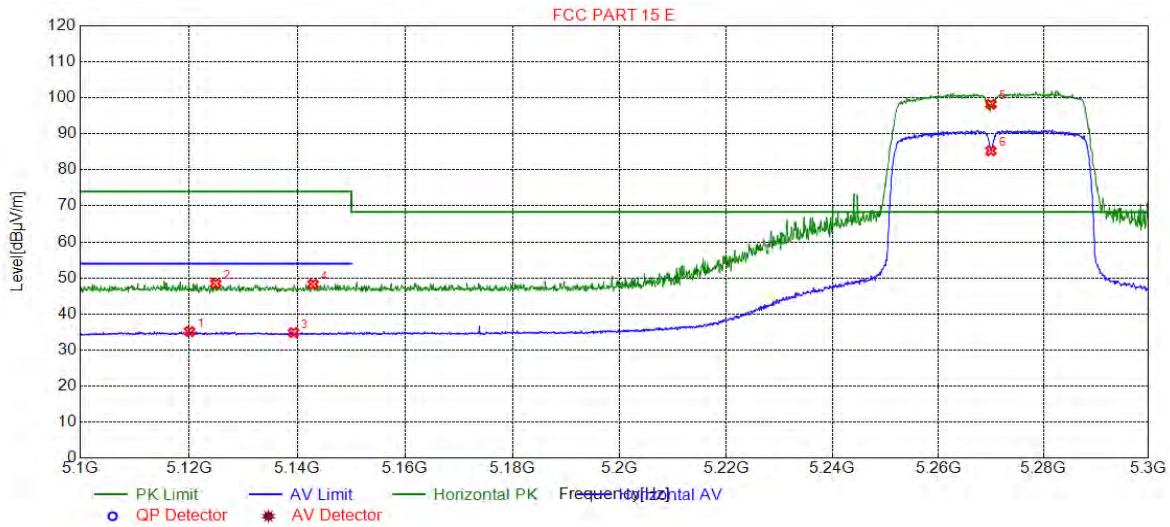
4.4.1.69 11AC40_54 ANT 1 _ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.41	49.01	7.50	74.00	24.99	150	302	Vertical
2	5122.41	34.53	7.51	54.00	19.47	150	91	Vertical
3	5143.22	34.52	7.54	54.00	19.48	150	283	Vertical
4	5145.82	47.93	7.55	74.00	26.07	150	335	Vertical
5	5270.00	74.94	7.71	0.00	-74.94	150	192	Vertical
6	5270.00	87.03	7.71	68.30	-18.73	150	192	Vertical

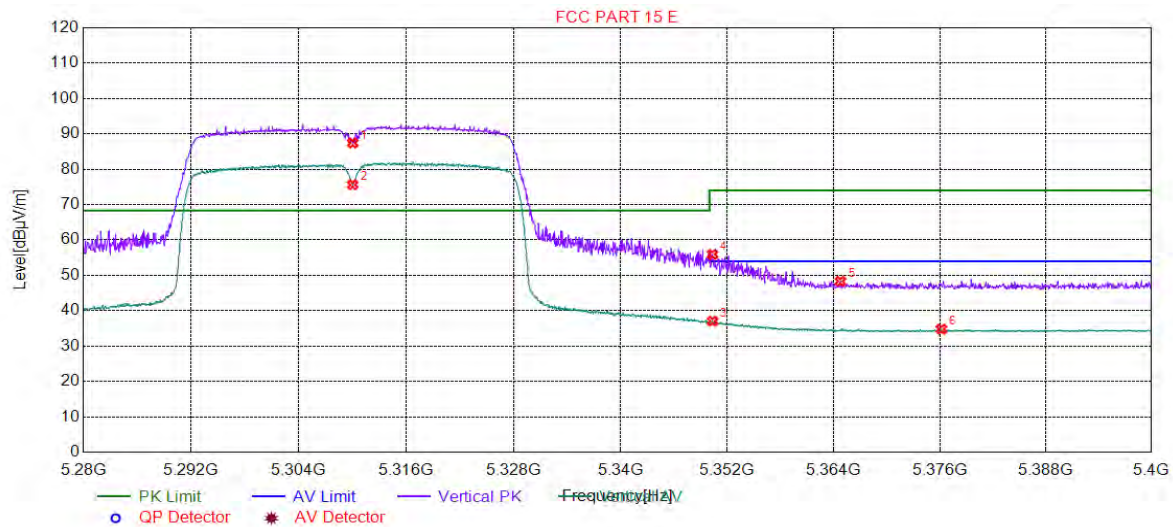


4.4.1.70 11AC40_54 ANT 1 _ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.11	35.12	7.50	54.00	18.88	150	222	Horizontal
2	5124.91	48.48	7.51	74.00	25.52	150	16	Horizontal
3	5139.31	34.84	7.54	54.00	19.16	150	213	Horizontal
4	5142.92	48.27	7.54	74.00	25.73	150	227	Horizontal
5	5270.00	98.23	7.71	68.30	-29.93	150	222	Horizontal
6	5270.00	85.29	7.71	0.00	-85.29	150	227	Horizontal

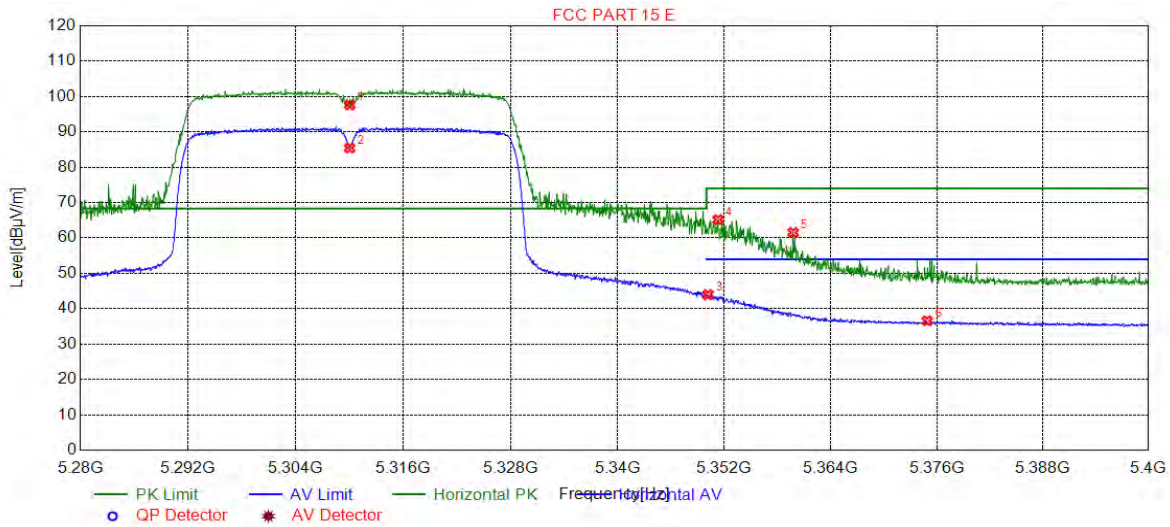
4.4.1.71 11AC40_62 ANT 1 _ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	87.42	7.76	68.30	-19.12	150	191	Vertical
2	5310.00	75.64	7.76	0.00	-75.64	150	201	Vertical
3	5350.35	37.05	7.84	54.00	16.95	150	196	Vertical
4	5350.35	55.93	7.84	74.00	18.07	150	201	Vertical
5	5364.76	48.31	7.87	74.00	25.69	150	187	Vertical
6	5376.16	34.79	7.89	54.00	19.21	150	215	Vertical

4.4.1.72 11AC40_62 ANT 1 _ Horizontal



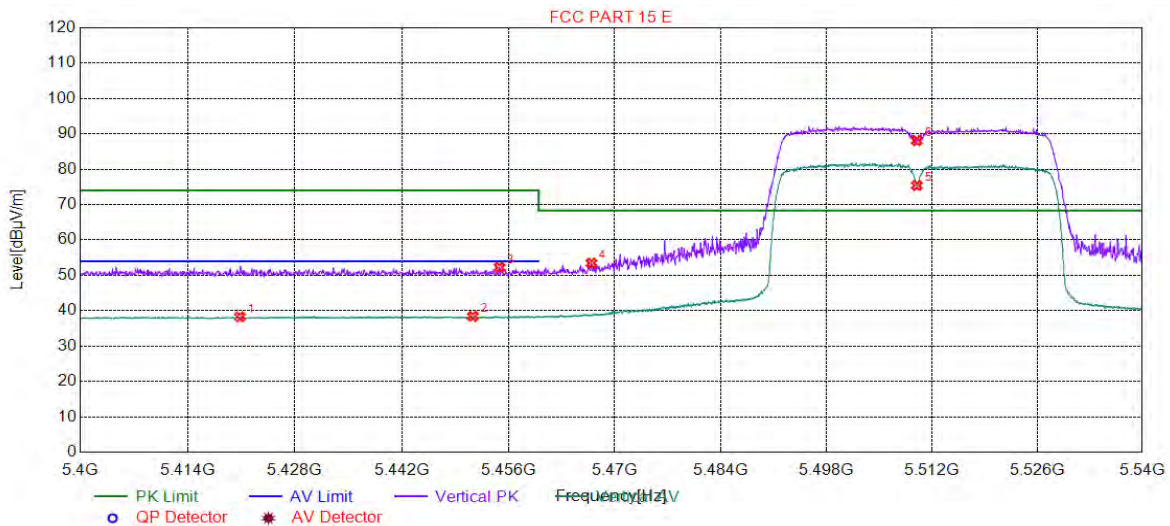
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	97.60	7.76	68.30	-29.30	150	237	Horizontal
2	5310.00	85.45	7.76	0.00	-85.45	150	233	Horizontal
3	5350.17	43.98	7.84	54.00	10.02	150	228	Horizontal
4	5351.31	65.17	7.84	74.00	8.83	150	199	Horizontal
5	5359.77	61.53	7.86	74.00	12.47	150	233	Horizontal
6	5374.90	36.58	7.89	54.00	17.42	150	228	Horizontal





4.4.1.73 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	5420.80	38.27	7.97	54.00	15.73	150	178	Vertical
2	5451.33	38.40	8.02	54.00	15.60	150	260	Vertical
3	5454.83	52.24	8.03	74.00	21.76	150	40	Vertical
4	5466.95	53.46	8.05	68.30	14.84	150	178	Vertical
5	5510.00	75.40	8.13	0.00	-75.40	150	188	Vertical
6	5510.00	88.08	8.13	68.30	-19.78	150	178	Vertical



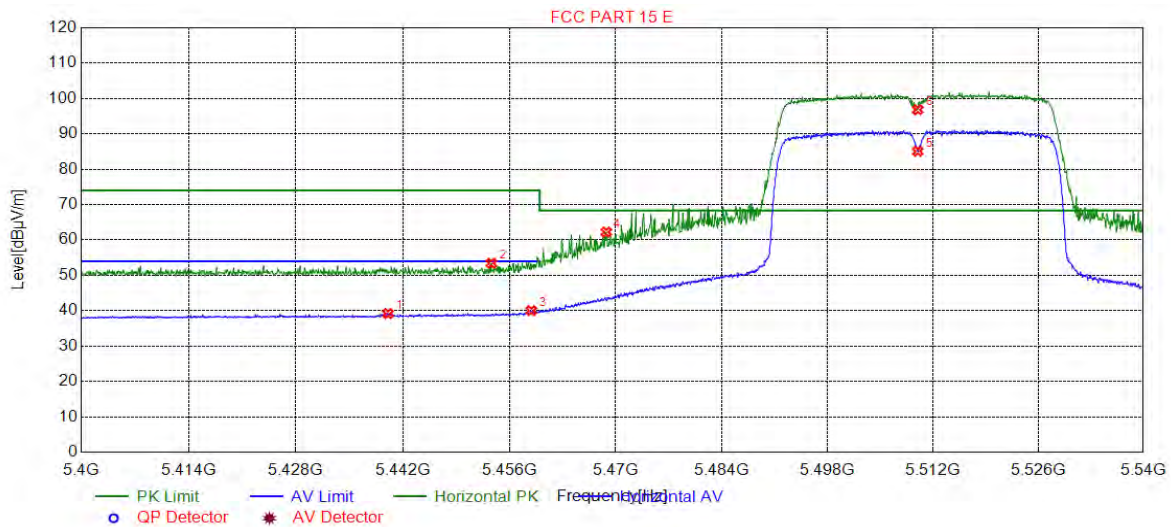
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4.4.1.74 11AC40_102 ANT 1 _ Horizontal

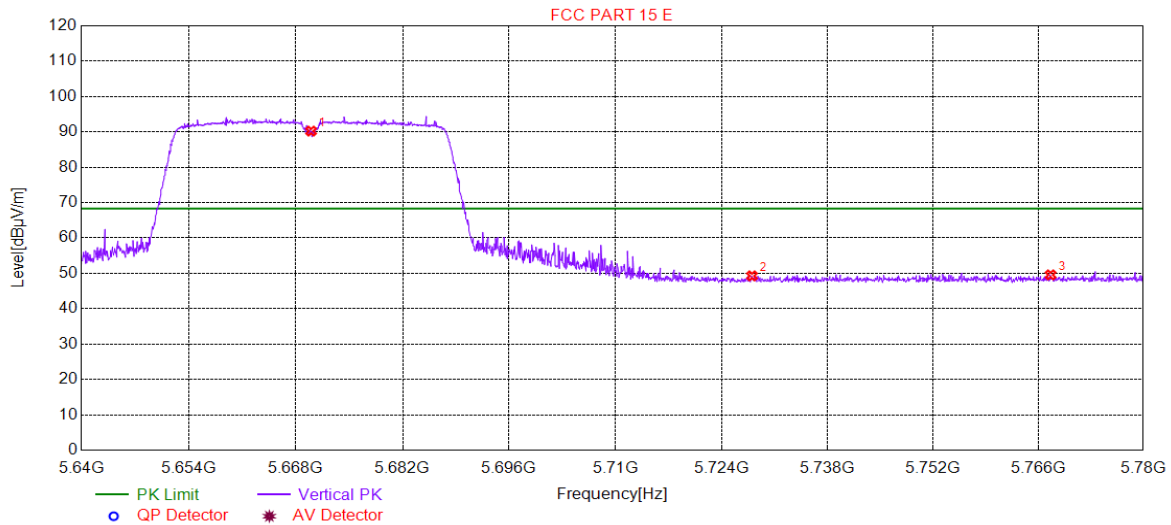


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5440.06	39.20	8.00	54.00	14.80	150	229	Horizontal
2	5453.64	53.41	8.03	74.00	20.59	150	191	Horizontal
3	5458.89	40.02	8.03	54.00	13.98	150	225	Horizontal
4	5468.77	62.24	8.05	68.30	6.06	150	239	Horizontal
5	5510.00	85.09	8.13	0.00	-85.09	150	225	Horizontal
6	5510.00	96.82	8.13	68.30	-28.52	150	201	Horizontal



4.4.1.75 11AC40_134 ANT 1 _ Vertical

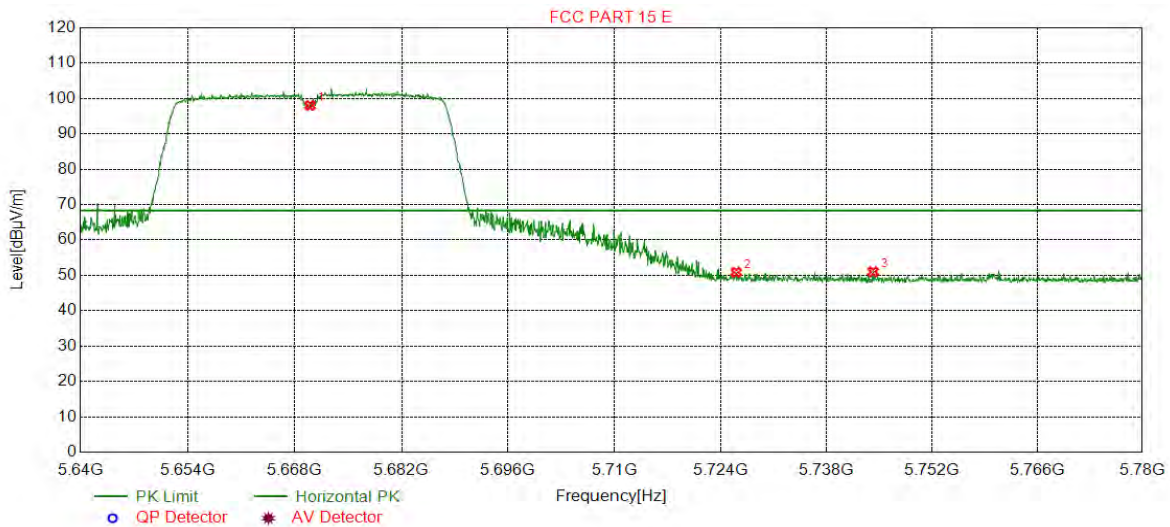


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	90.22	8.46	68.30	-21.92	150	189	Vertical
2	5728.03	49.29	8.57	68.30	19.01	150	344	Vertical
3	5767.67	49.57	8.67	68.30	18.73	150	217	Vertical



4.4.1.76 11AC40_134 ANT 1 _ Horizontal

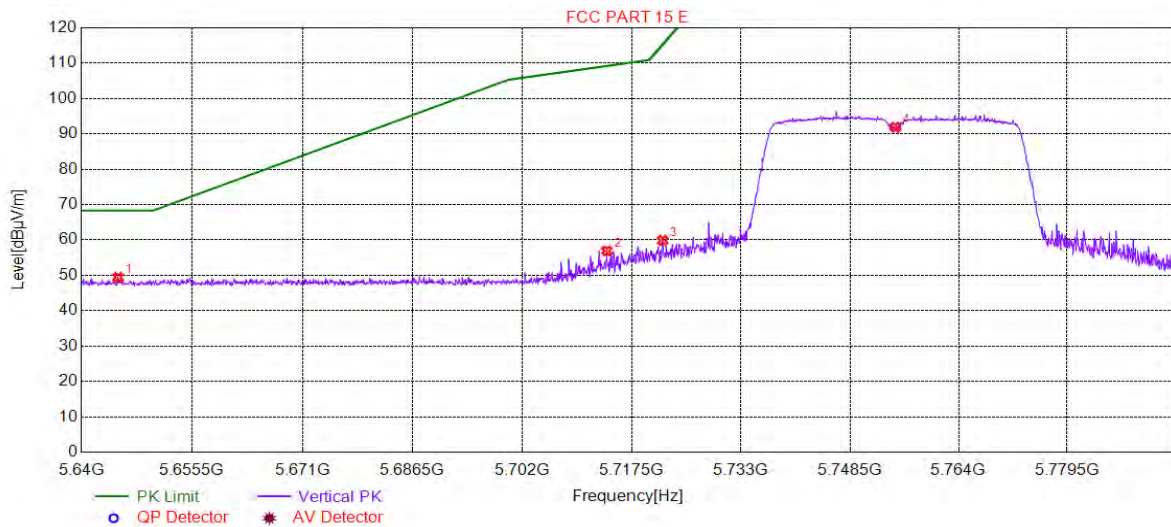


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	98.01	8.46	68.30	-29.71	150	222	Horizontal
2	5726.07	50.88	8.57	68.30	17.42	150	222	Horizontal
3	5744.21	51.01	8.61	68.30	17.29	150	218	Horizontal

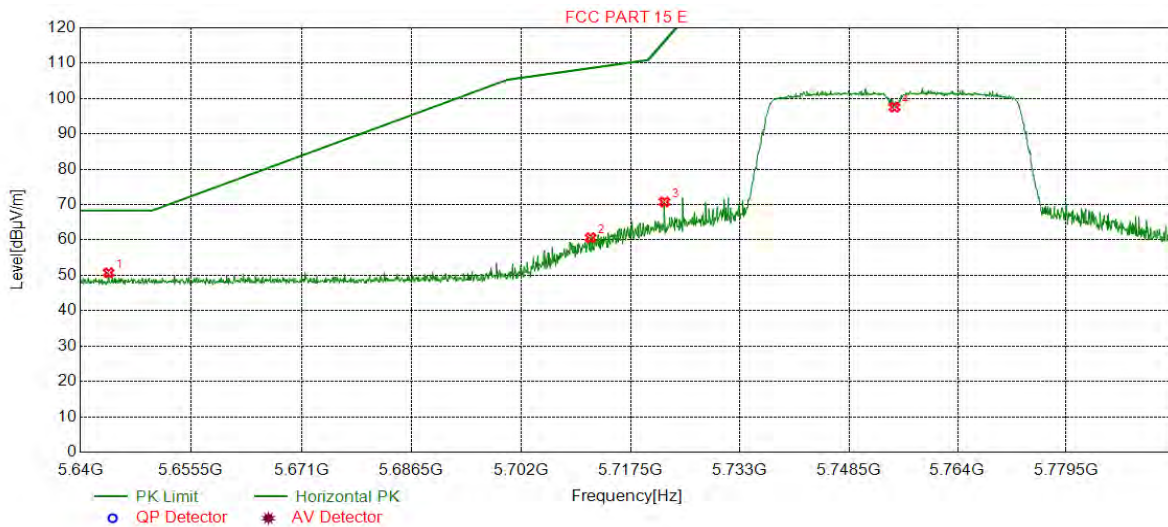


4.4.1.77 11AC40_151 ANT 1 _ Vertical



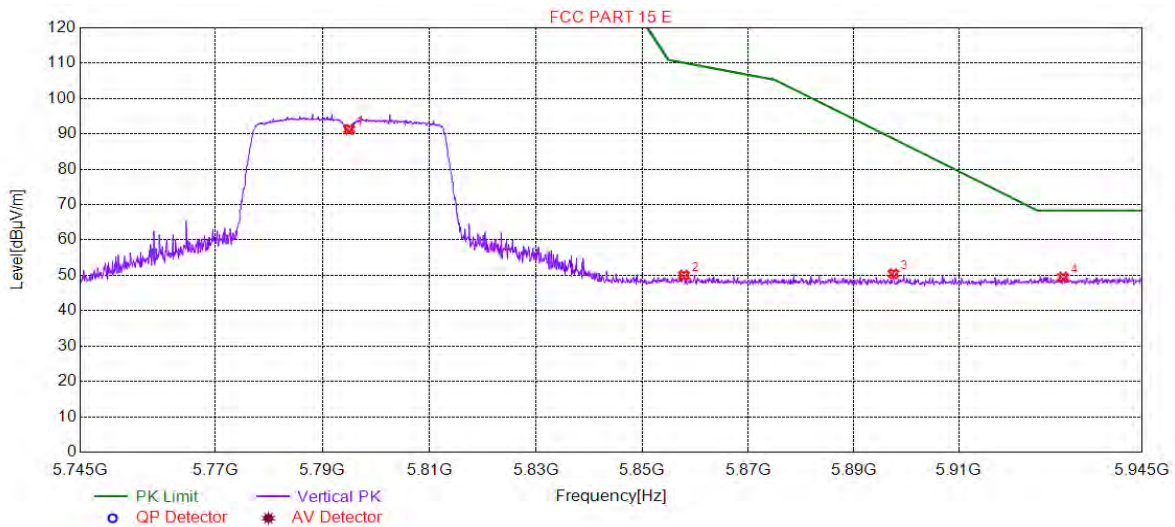
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.11	49.44	8.42	68.30	18.86	150	58	Vertical
2	5713.97	56.92	8.54	109.21	52.29	150	200	Vertical
3	5721.88	59.88	8.56	115.19	55.31	150	189	Vertical
4	5755.00	91.88	8.64	0.00	-91.88	150	196	Vertical

4.4.1.78 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	5643.95	50.72	8.42	68.30	17.58	150	318	Horizontal
2	5711.80	60.63	8.54	108.60	47.97	150	212	Horizontal
3	5722.26	70.76	8.56	116.07	45.31	150	230	Horizontal
4	5755.00	97.54	8.64	0.00	-97.54	150	230	Horizontal

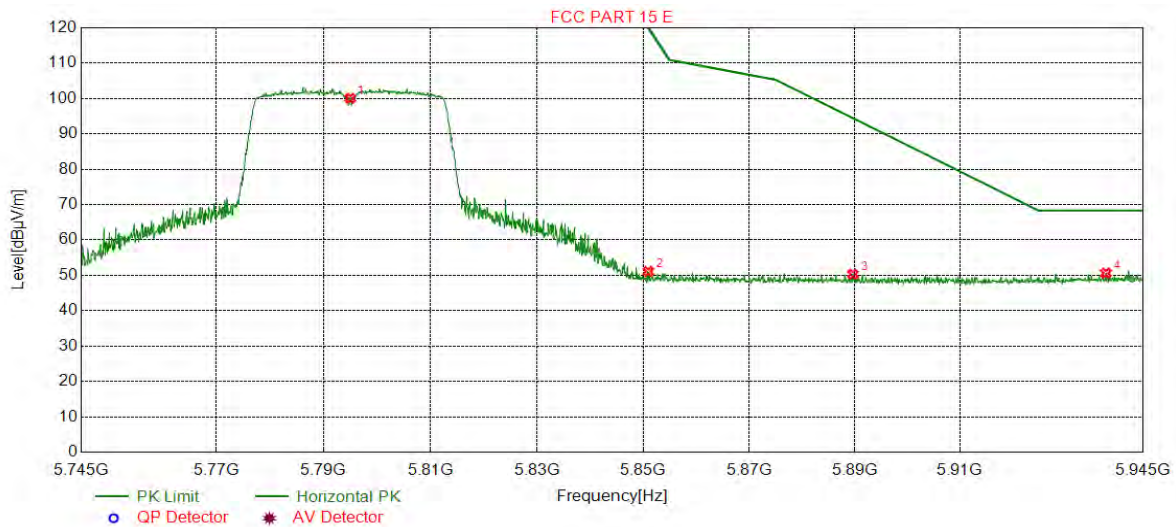
4.4.1.79 11AC40_159 ANT 1 _ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	91.28	8.73	0.00	-91.28	150	192	Vertical
2	5857.85	50.01	8.91	110.10	60.09	150	309	Vertical
3	5897.57	50.43	9.03	88.59	38.16	150	135	Vertical
4	5929.89	49.47	9.13	68.30	18.83	150	182	Vertical

4.4.1.80 11AC40_159 ANT 1 _ Horizontal

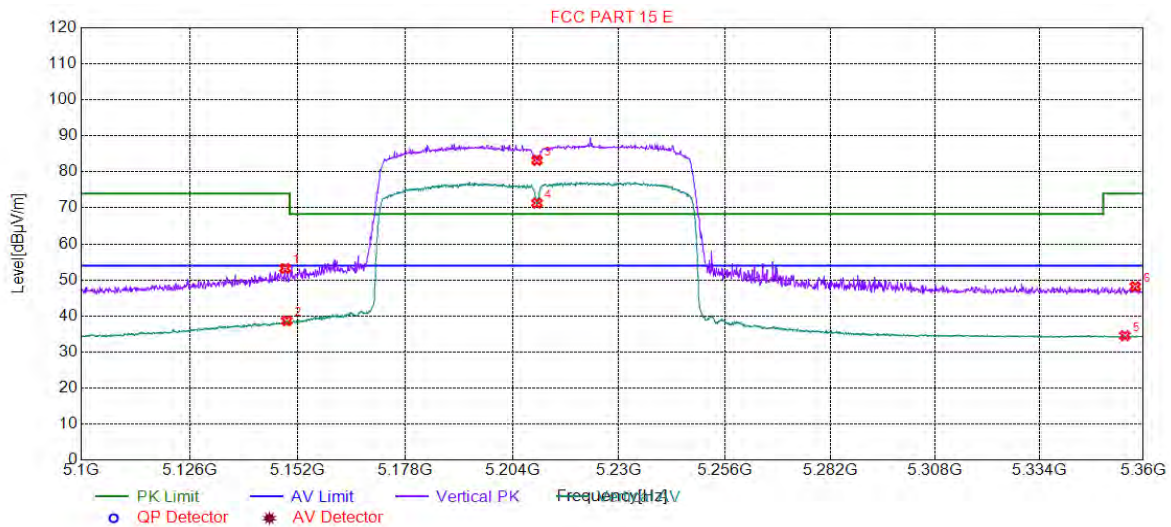


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	100.06	8.73	0.00	-100.06	150	219	Horizontal
2	5850.95	51.11	8.89	120.13	69.02	150	229	Horizontal
3	5889.67	50.35	9.01	94.44	44.09	150	222	Horizontal
4	5937.89	50.64	9.15	68.30	17.66	150	219	Horizontal

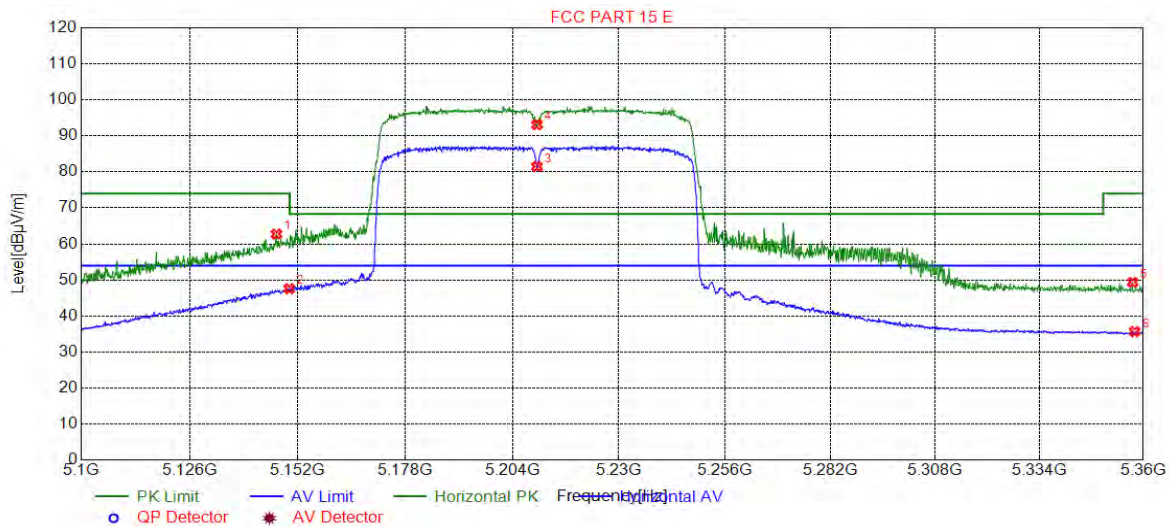


4.4.1.81 11AC80_42 ANT 1 _ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.90	53.23	7.55	74.00	20.77	150	197	Vertical
2	5149.29	38.64	7.55	54.00	15.36	150	197	Vertical
3	5210.00	83.20	7.65	68.30	-14.90	150	207	Vertical
4	5210.00	71.34	7.65	54.00	-17.34	150	197	Vertical
5	5355.44	34.54	7.85	54.00	19.46	150	163	Vertical
6	5358.04	48.15	7.86	74.00	25.85	150	344	Vertical

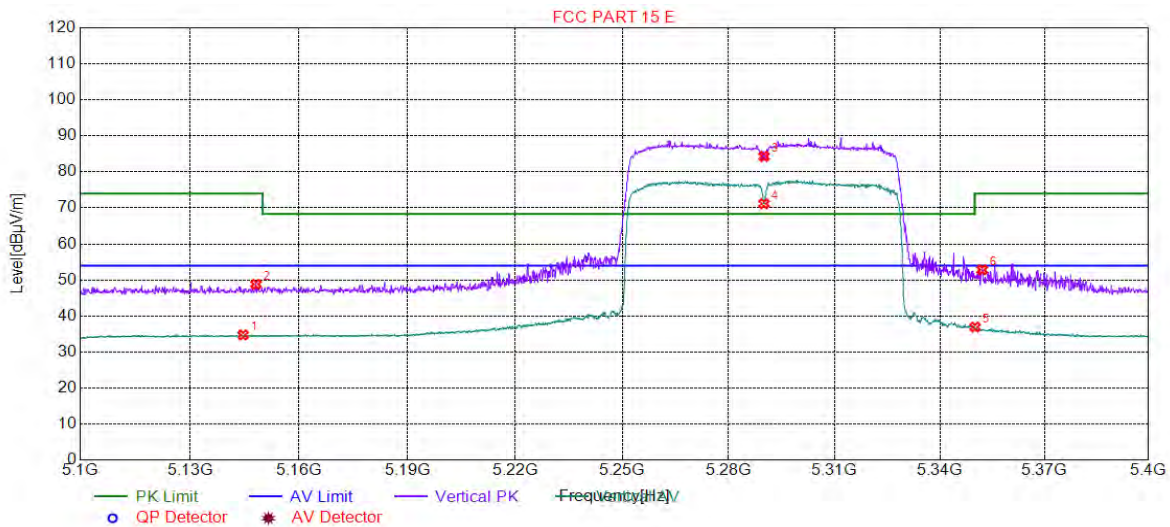
4.4.1.82 11AC80_42 ANT 1 _ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5146.82	62.73	7.55	74.00	11.27	150	227	Horizontal
2	5149.90	47.57	7.55	54.00	6.43	150	227	Horizontal
3	5210.00	81.46	7.65	54.00	-27.46	150	227	Horizontal
4	5210.00	93.13	7.65	68.30	-24.83	150	236	Horizontal
5	5357.39	49.34	7.85	74.00	24.66	150	44	Horizontal
6	5357.91	35.66	7.86	54.00	18.34	150	227	Horizontal

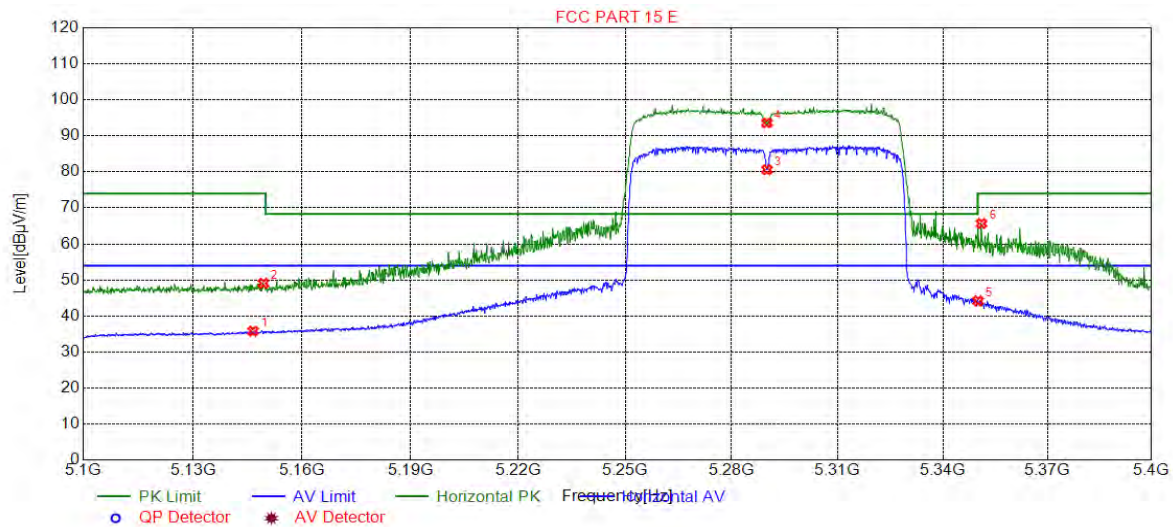
4.4.1.83 11AC80_58 ANT 1 _ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.57	34.75	7.55	54.00	19.25	150	225	Vertical
2	5148.17	48.79	7.55	74.00	25.21	150	287	Vertical
3	5290.00	84.29	7.73	68.30	-15.99	150	187	Vertical
4	5290.00	71.16	7.73	54.00	-17.16	150	196	Vertical
5	5350.10	36.93	7.84	54.00	17.07	150	192	Vertical
6	5352.12	52.83	7.84	74.00	21.17	150	206	Vertical

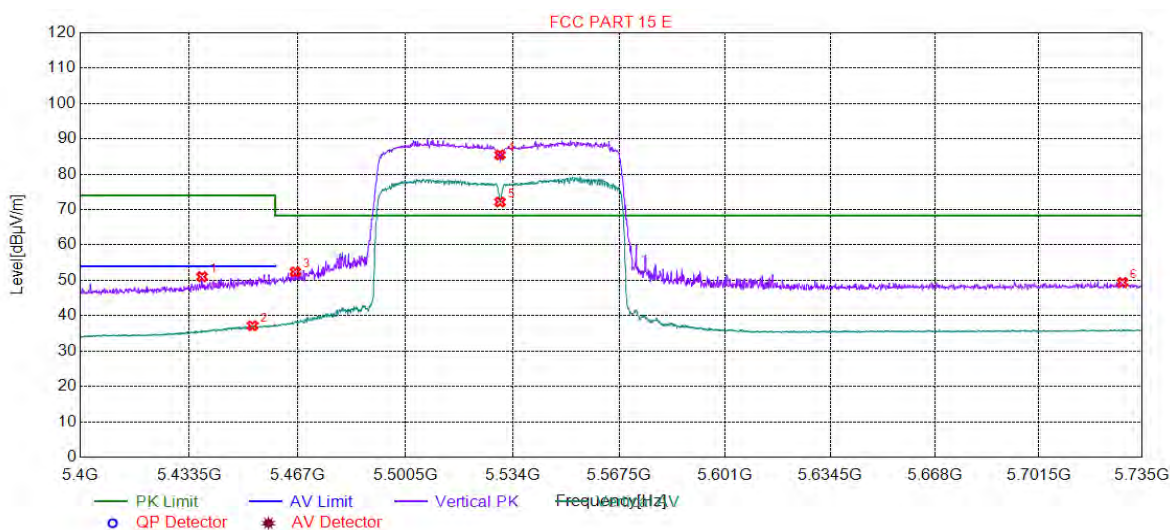
4.4.1.84 11AC80_58 ANT 1 _ Horizontal



Suspected List

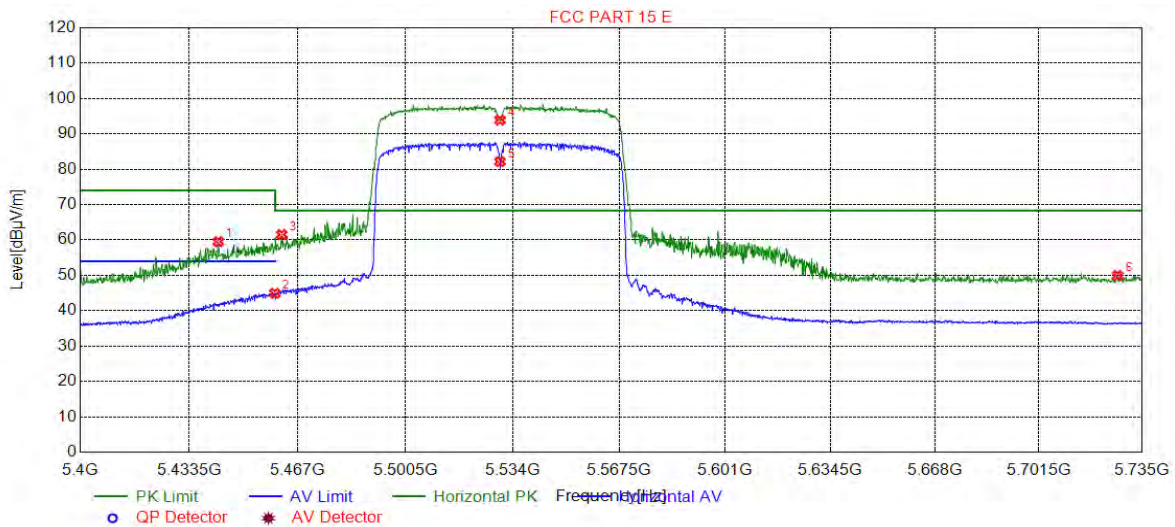
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5146.52	35.79	7.55	54.00	18.21	150	226	Horizontal
2	5149.37	49.08	7.55	74.00	24.92	150	192	Horizontal
3	5290.00	80.60	7.73	54.00	-26.60	150	231	Horizontal
4	5290.00	93.60	7.73	68.30	-25.30	150	202	Horizontal
5	5350.10	44.19	7.84	54.00	9.81	150	222	Horizontal
6	5351.07	65.68	7.84	74.00	8.32	150	197	Horizontal

4.4.1.85 11AC80_106 ANT 1 _ Vertical



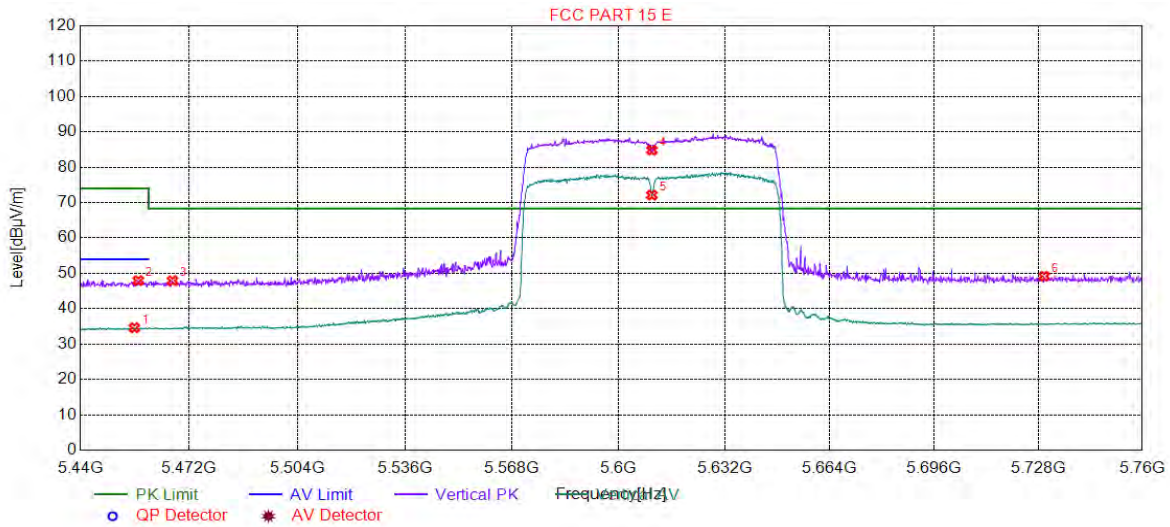
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5437.37	51.02	8.00	74.00	22.98	150	187	Vertical
2	5452.95	37.16	8.02	54.00	16.84	150	196	Vertical
3	5466.19	52.42	8.05	68.30	15.88	150	187	Vertical
4	5530.00	85.49	8.18	68.30	-17.19	150	187	Vertical
5	5530.00	72.15	8.18	0.00	-72.15	150	206	Vertical
6	5728.63	49.39	8.58	68.30	18.91	150	25	Vertical

4.4.1.86 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	5442.39	59.51	8.01	74.00	14.49	150	225	Horizontal
2	5459.90	44.93	8.04	54.00	9.07	150	216	Horizontal
3	5462.00	61.51	8.04	68.30	6.79	150	225	Horizontal
4	5530.00	93.91	8.18	68.30	-25.61	150	216	Horizontal
5	5530.00	82.16	8.18	0.00	-82.16	150	220	Horizontal
6	5727.12	49.93	8.57	68.30	18.37	150	69	Horizontal

4.4.1.87 11AC80_122 ANT 1 _ Vertical

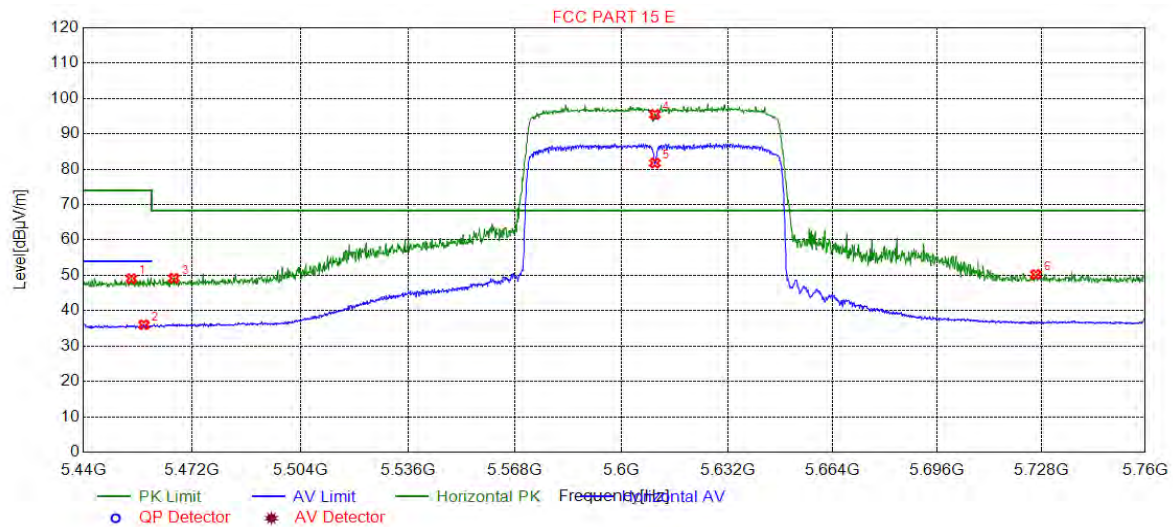


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5455.84	34.62	8.03	54.00	19.38	150	324	Vertical
2	5456.96	47.96	8.03	74.00	26.04	150	6	Vertical
3	5467.05	47.91	8.05	68.30	20.39	150	344	Vertical
4	5610.00	84.81	8.37	68.30	-16.51	150	193	Vertical
5	5610.00	72.11	8.37	0.00	-72.11	150	188	Vertical
6	5729.74	49.21	8.58	68.30	19.09	150	105	Vertical



4.4.1.88 11AC80_122 ANT 1 _ Horizontal

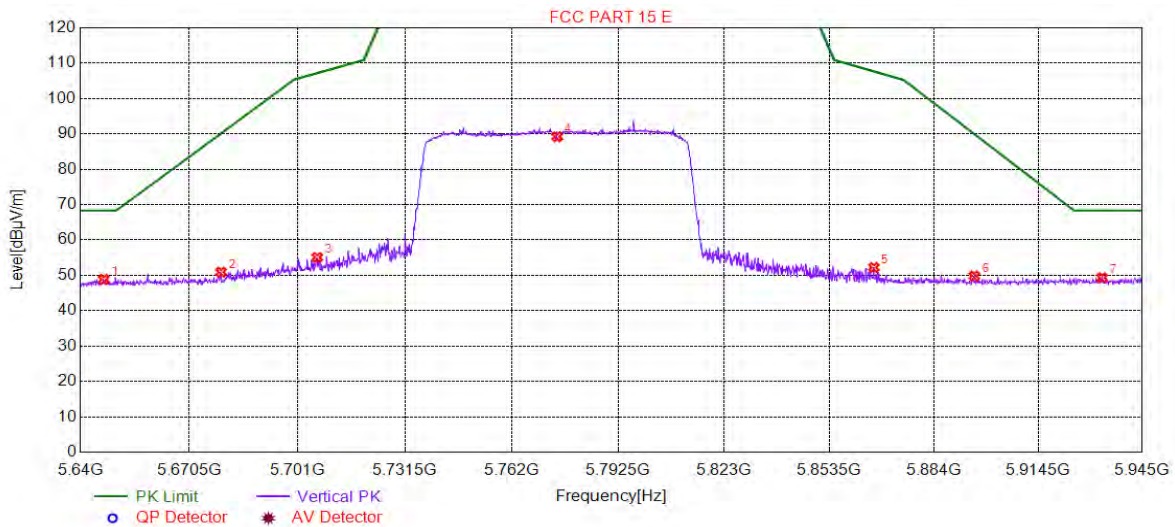


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5454.08	49.06	8.03	74.00	24.94	150	222	Horizontal
2	5457.76	36.04	8.03	54.00	17.96	150	227	Horizontal
3	5466.57	49.18	8.05	68.30	19.12	150	198	Horizontal
4	5610.00	95.51	8.37	68.30	-27.21	150	218	Horizontal
5	5610.00	81.75	8.37	0.00	-81.75	150	227	Horizontal
6	5726.22	50.29	8.57	68.30	18.01	150	20	Horizontal



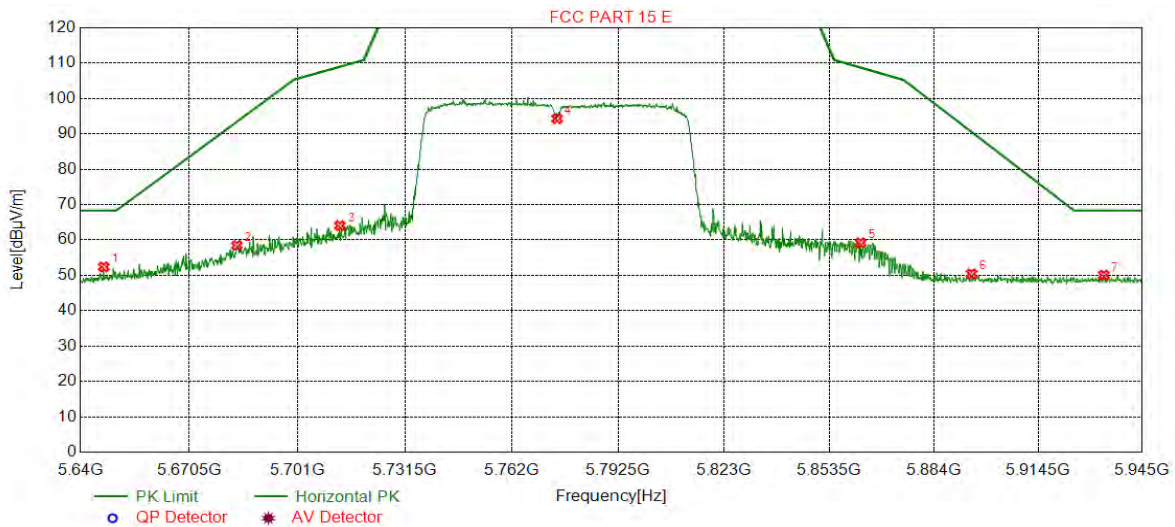
4.4.1.89 11AC80_155 ANT 1 _ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.56	48.86	8.42	68.30	19.44	150	68	Vertical
2	5679.51	50.92	8.48	90.14	39.22	150	189	Vertical
3	5706.67	55.07	8.53	107.17	52.10	150	200	Vertical
4	5775.00	89.20	8.68	122.30	33.10	150	189	Vertical
5	5866.42	52.24	8.94	107.70	55.46	150	189	Vertical
6	5895.71	49.83	9.03	89.97	40.14	150	142	Vertical
7	5933.25	49.35	9.14	68.30	18.95	150	214	Vertical



4.4.1.90 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	5646.56	52.38	8.42	68.30	15.92	150	219	Horizontal
2	5683.94	58.46	8.48	93.42	34.96	150	227	Horizontal
3	5713.08	64.07	8.54	108.96	44.89	150	230	Horizontal
4	5775.00	94.32	8.68	122.30	27.98	150	223	Horizontal
5	5862.60	59.20	8.93	108.77	49.57	150	219	Horizontal
6	5894.95	50.42	9.02	90.53	40.11	150	227	Horizontal
7	5933.70	50.08	9.14	68.30	18.22	150	122	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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4.5 Dynamic Frequency Selection

4.5.1 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.		



4.5.2 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.	

4.5.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	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.

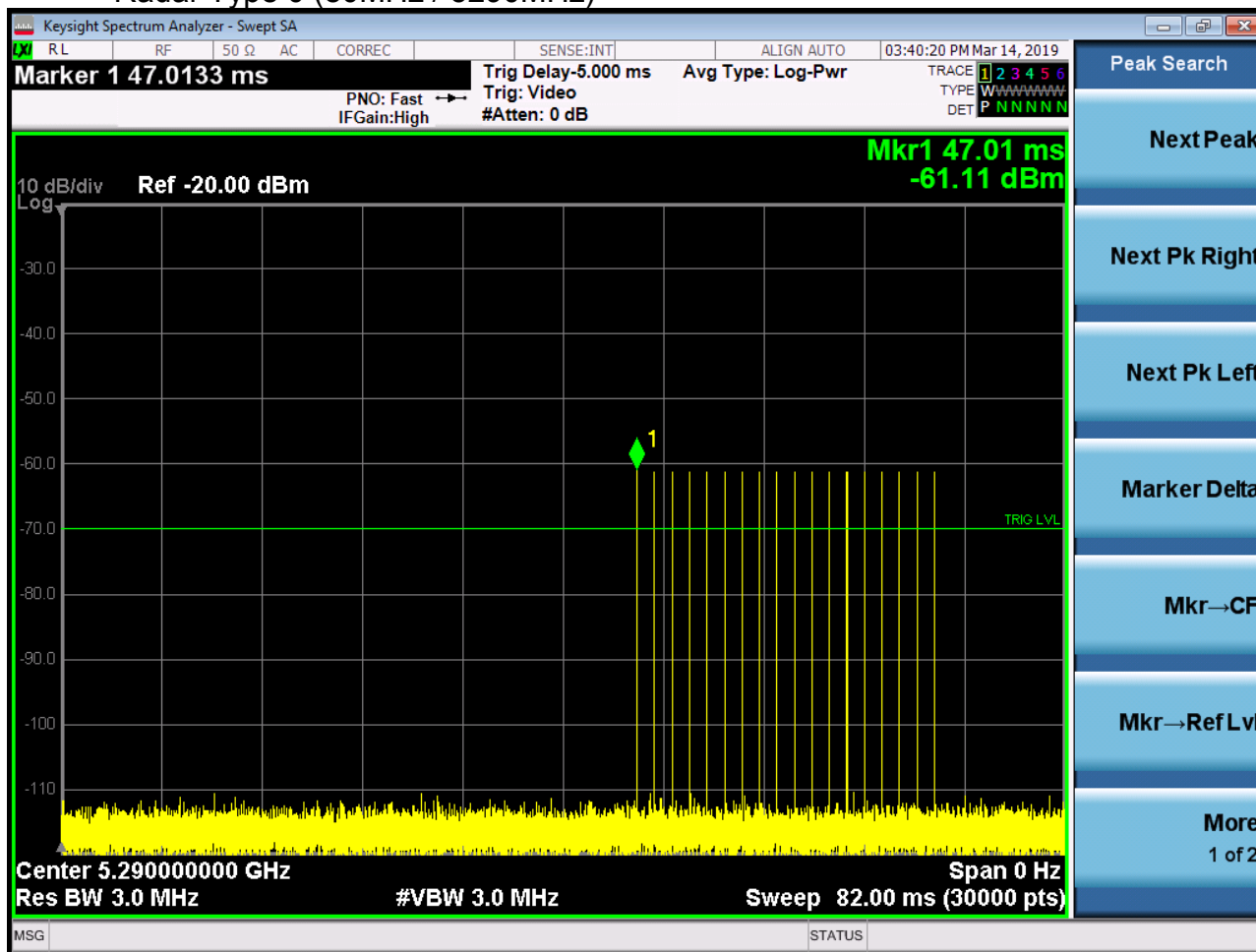




4.5.4 Test plots

4.5.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5290MHz)



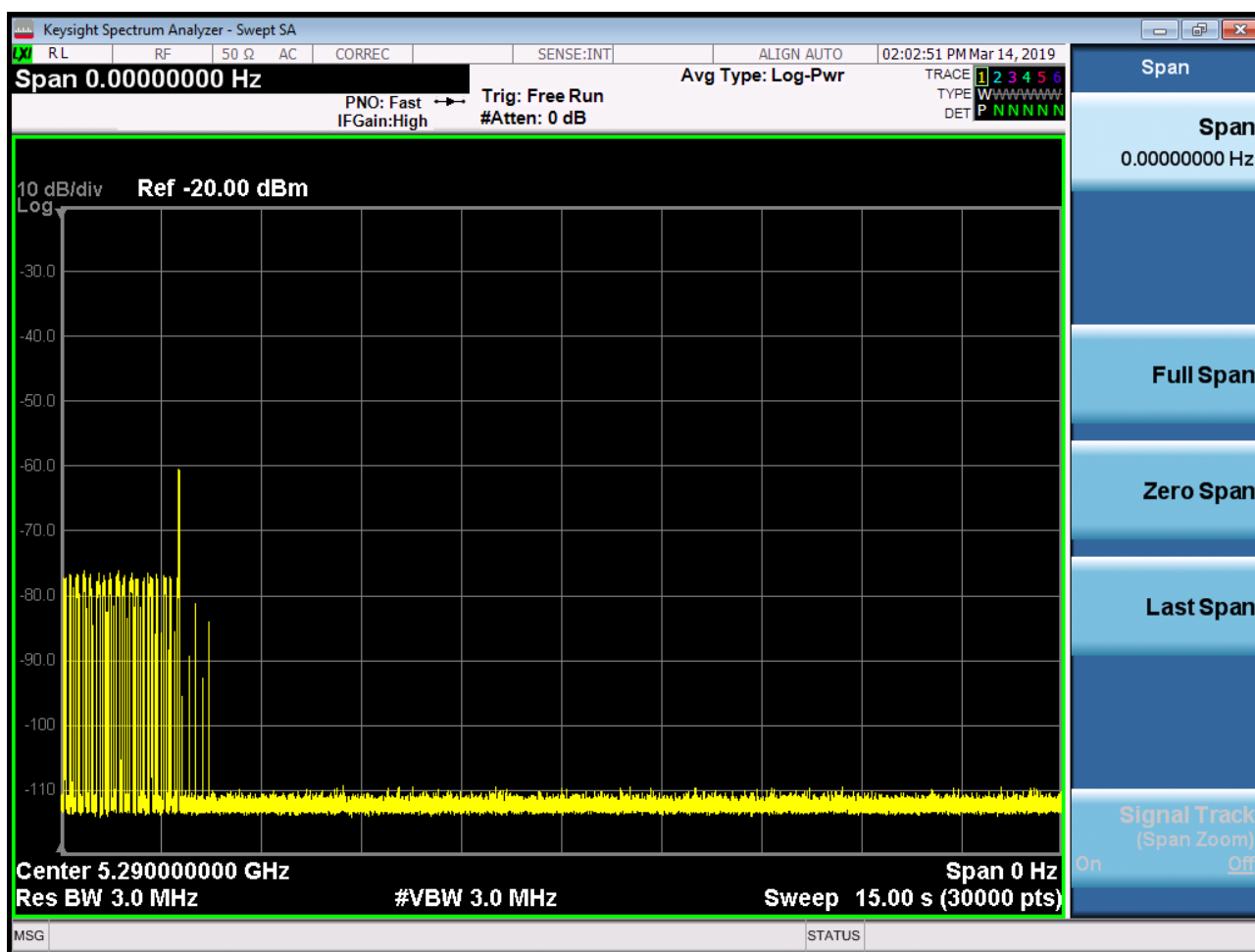


4.5.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5290MHz	Channel Move Time	0.44s	<10s	Pass
	Channel Closing Transmission Time	1.5ms	<60ms	Pass

4.5.5.1 Test plots

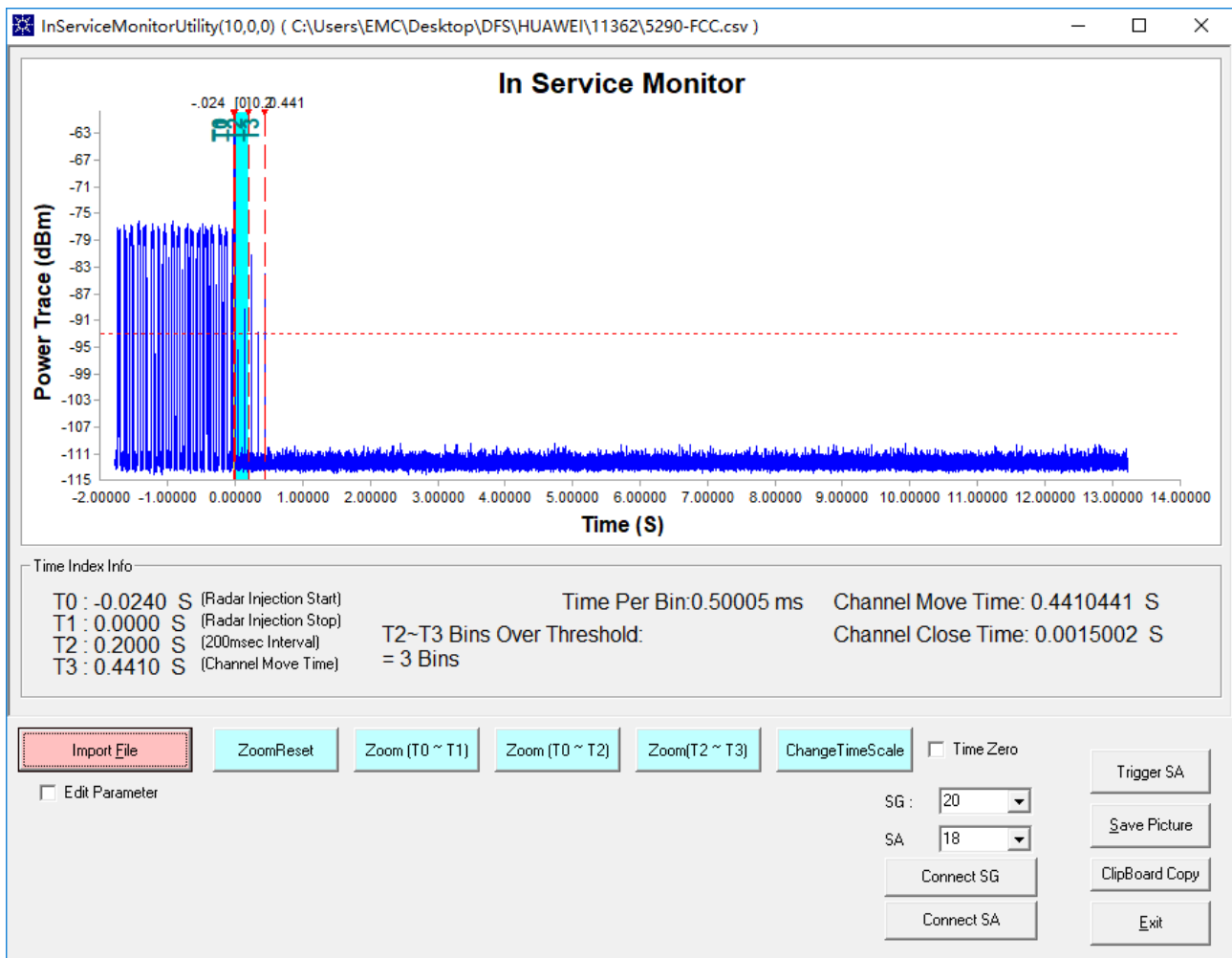
4.5.5.1.1 Test Bandwidth/Channel= 80MHz / 5290MHz



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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	$\pm 0.5\%$





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	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2018/4/2	2019/4/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
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	2018/4/2	2019/4/1
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	2018/9/2	2019/9/2
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2
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	2018/7/12	2019/7/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2
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	2018/4/2	2019/4/1

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	2018/4/2	2019/4/1
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2018/4/13	2019/4/12
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	2018/7/12	2019/7/11

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	2018/4/2	2019/4/1
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	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
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	2018/4/2	2019/4/1
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	2018/7/12	2019/7/11

7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for HR/2019/20008.

The End



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