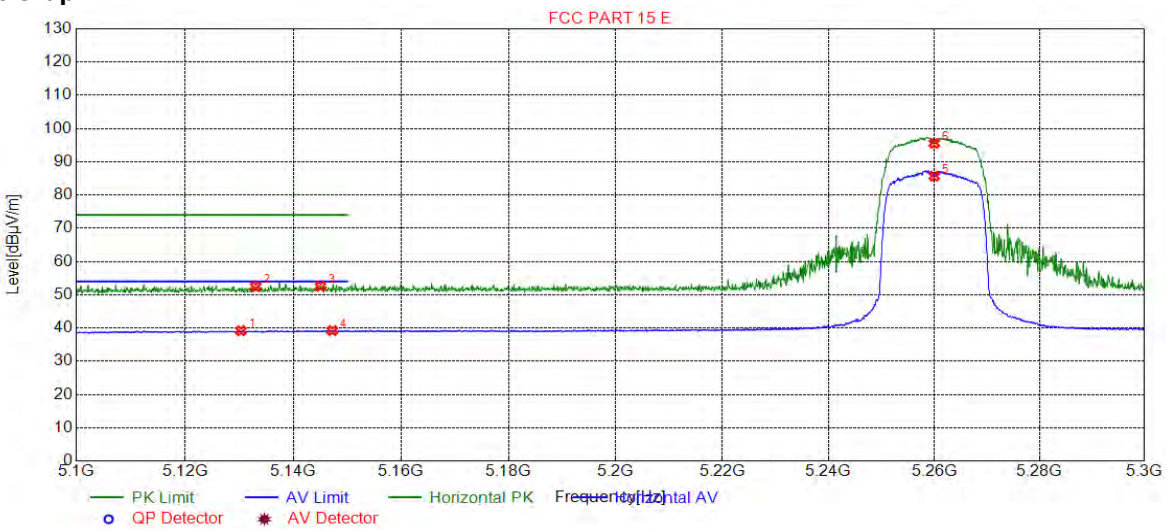
4.10.1.53 802.11AC20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.31	39.23	15.35	54.00	14.77	141	50	Horizontal
2	5133.01	52.48	15.37	74.00	21.52	221	228	Horizontal
3	5145.02	52.57	15.48	74.00	21.43	237	255	Horizontal
4	5147.22	39.26	15.50	54.00	14.74	159	29	Horizontal
5	5260.00	85.68	15.51	0.00	-85.68	159	152	Horizontal
6	5260.00	95.54	15.51	0.00	-95.54	149	146	Horizontal

Final Data List

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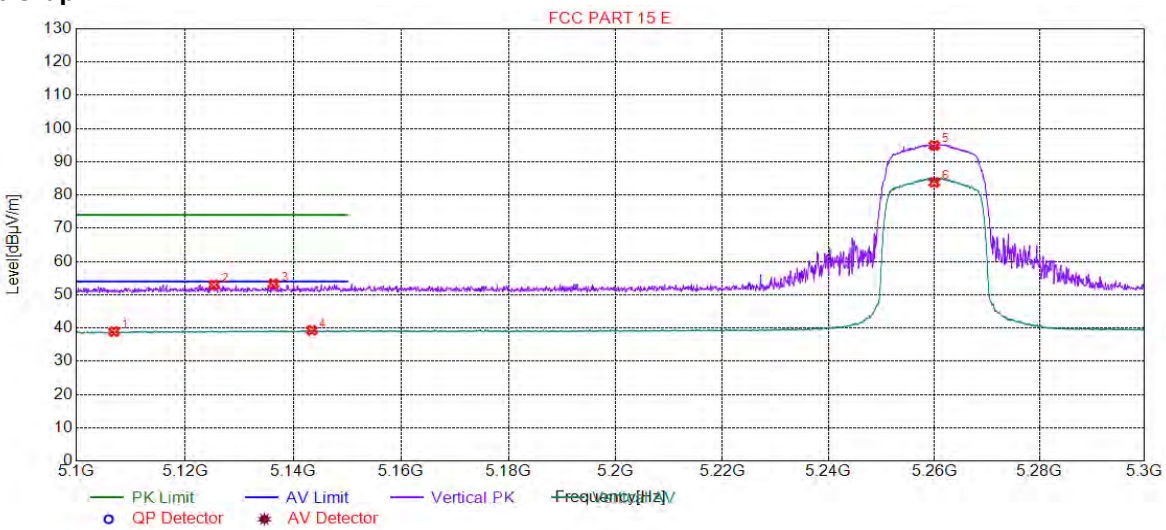
4.10.1.54 802.11AC20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5106.90	38.97	15.15	54.00	15.03	224	75	Vertical
2	5125.31	53.03	15.31	74.00	20.97	223	274	Vertical
3	5136.31	53.28	15.40	74.00	20.72	234	192	Vertical
4	5143.42	39.33	15.46	54.00	14.67	184	302	Vertical
5	5260.00	94.90	15.51	0.00	-94.90	235	315	Vertical
6	5260.00	83.79	15.51	0.00	-83.79	216	295	Vertical

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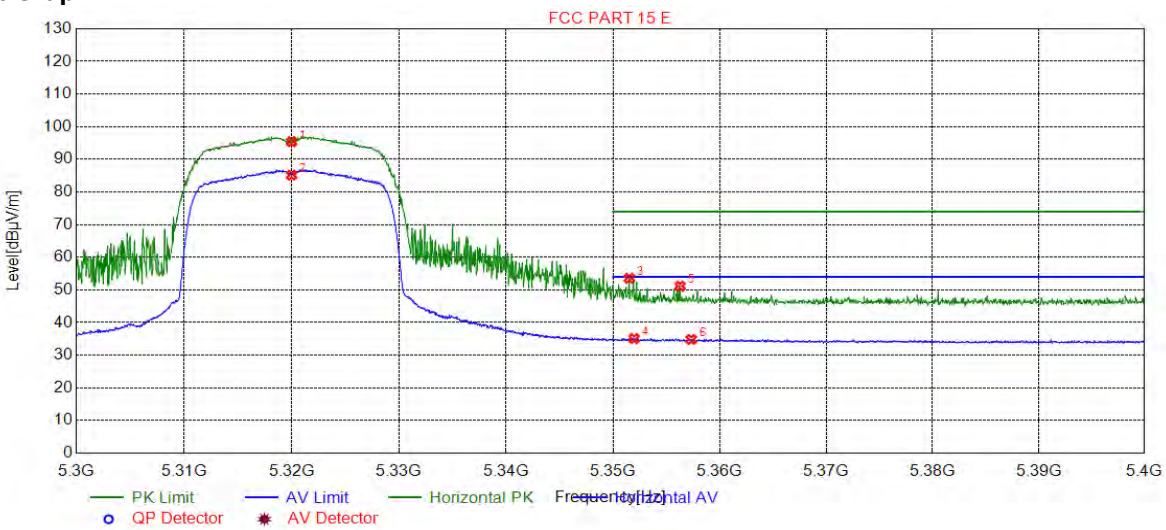
4.10.1.55 802.11AC20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	95.43	15.80	0.00	-95.43	171	142	Horizontal
2	5320.00	85.16	15.80	0.00	-85.16	150	338	Horizontal
3	5351.52	53.58	15.95	74.00	20.42	203	142	Horizontal
4	5351.97	35.10	15.95	54.00	18.90	163	149	Horizontal
5	5356.27	51.16	15.98	74.00	22.84	239	155	Horizontal
6	5357.32	34.85	15.99	54.00	19.15	220	149	Horizontal

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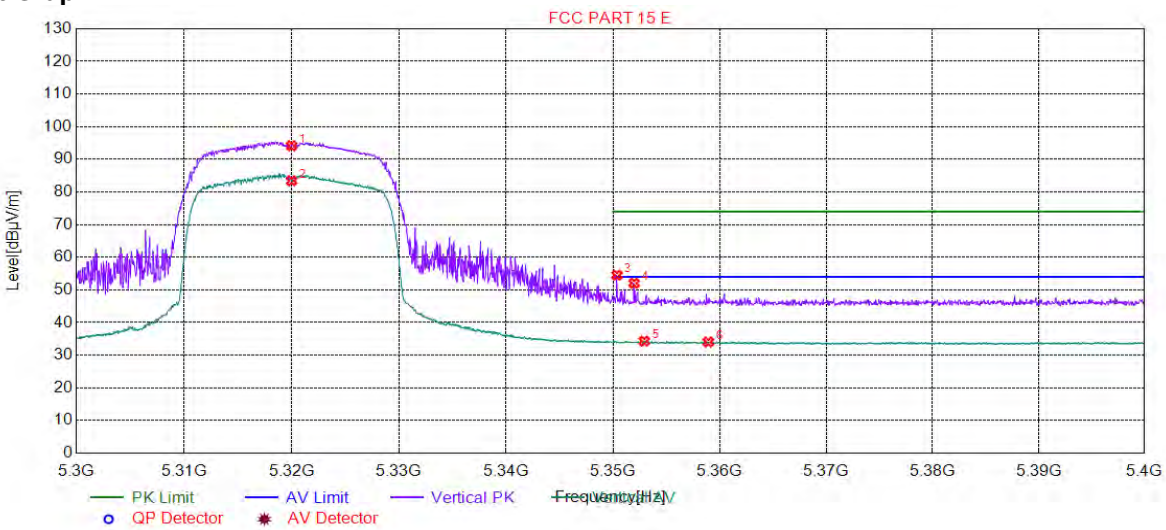
4.10.1.56 802.11AC20_Channel 64

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	94.14	15.80	0.00	-94.14	213	309	Vertical
2	5320.00	83.43	15.80	0.00	-83.43	265	269	Vertical
3	5350.37	54.53	15.94	74.00	19.47	255	289	Vertical
4	5351.97	52.06	15.95	74.00	21.94	220	276	Vertical
5	5352.92	34.31	15.96	54.00	19.69	265	302	Vertical
6	5358.92	34.05	16.00	54.00	19.95	206	302	Vertical

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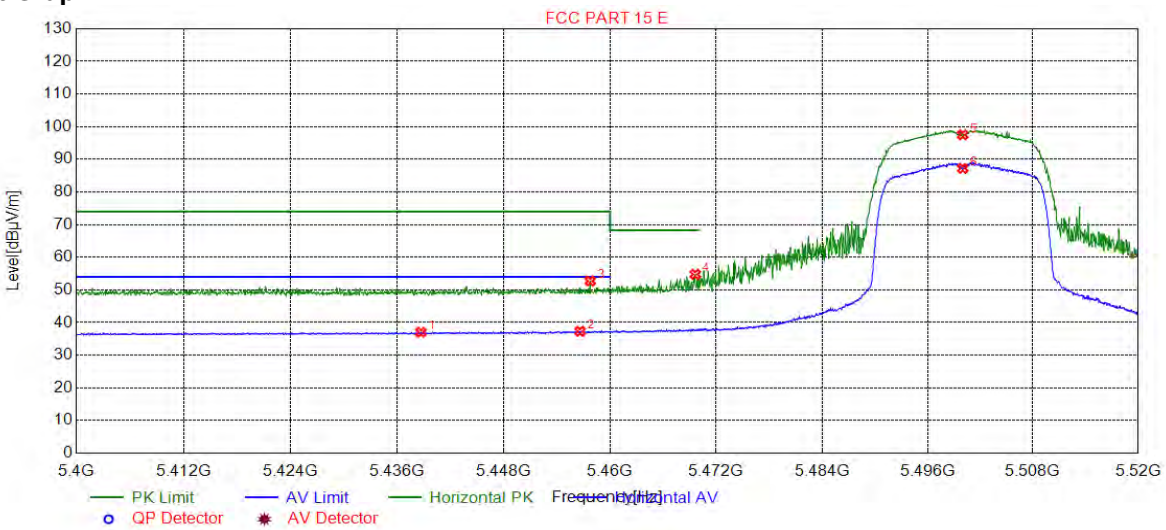
4.10.1.57 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5438.65	37.03	16.25	54.00	16.97	131	319	Horizontal
2	5456.60	37.32	16.25	54.00	16.68	148	325	Horizontal
3	5457.74	52.77	16.25	74.00	21.23	179	157	Horizontal
4	5469.63	54.79	16.25	68.30	13.51	225	146	Horizontal
5	5500.00	97.51	16.25	0.00	-97.51	144	319	Horizontal
6	5500.00	87.25	16.25	0.00	-87.25	207	152	Horizontal

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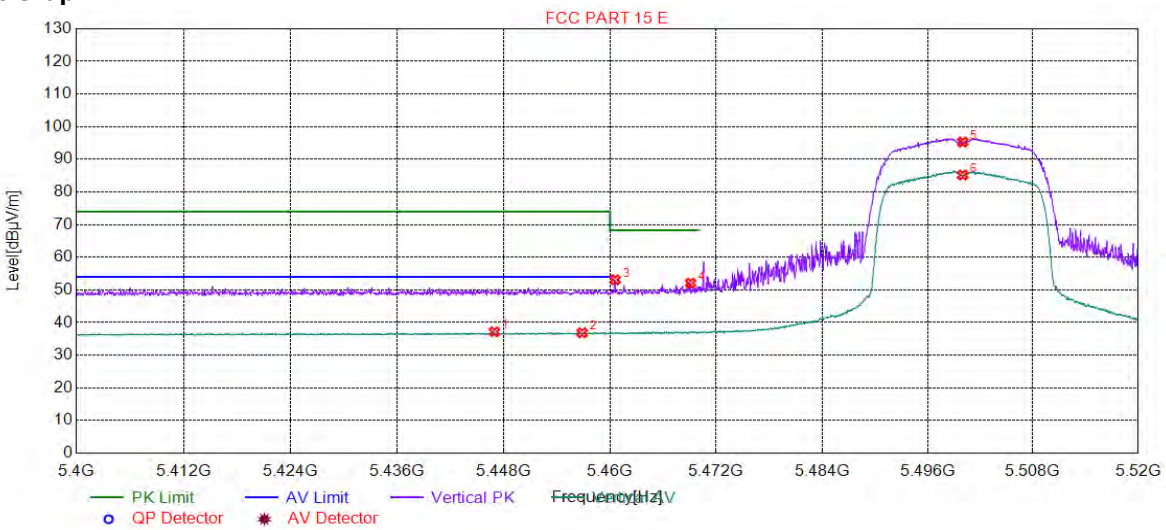
4.10.1.58 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.94	37.18	16.25	54.00	16.82	131	272	Vertical
2	5456.84	36.88	16.25	54.00	17.12	148	256	Vertical
3	5460.57	53.14	16.25	68.30	15.16	179	278	Vertical
4	5469.09	52.11	16.25	68.30	16.19	225	278	Vertical
5	5500.00	95.31	16.25	0.00	-95.31	144	267	Vertical
6	5500.00	85.22	16.25	0.00	-85.22	207	267	Vertical

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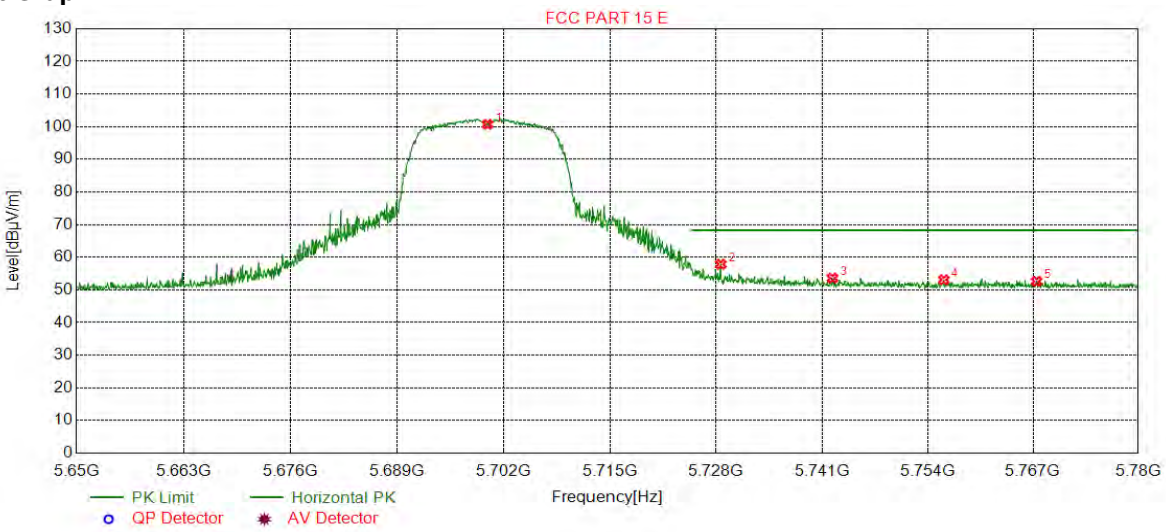
4.10.1.59 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List								
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1	5700.00	100.71	16.80	0.00	-100.71	101	151	Horizontal
2	5728.55	57.86	16.98	68.30	10.44	177	151	Horizontal
3	5742.28	53.62	17.07	68.30	14.68	182	156	Horizontal
4	5756.00	53.09	17.13	68.30	15.21	239	64	Horizontal
5	5767.44	52.65	17.14	68.30	15.65	149	73	Horizontal

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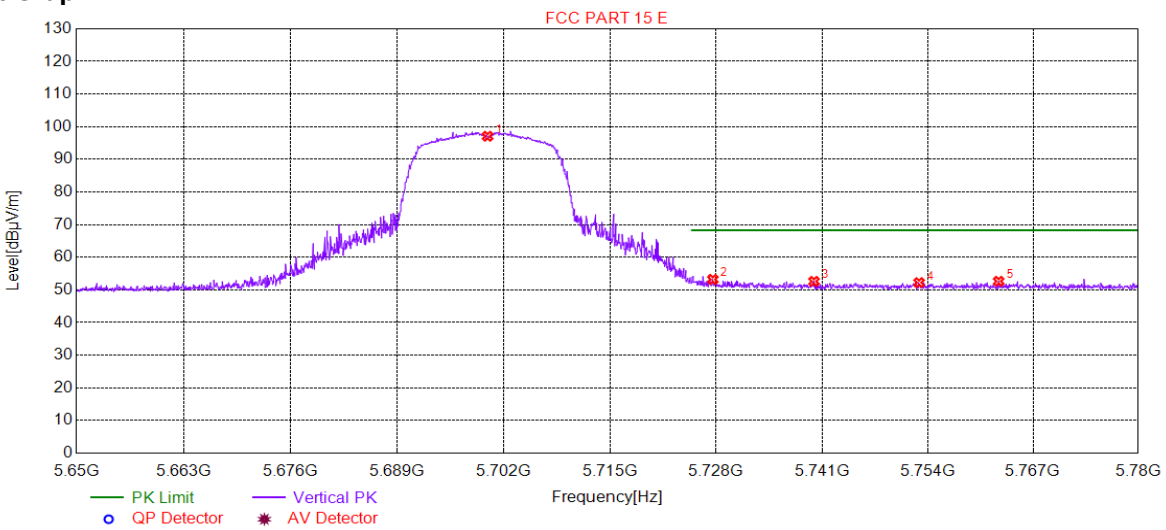
4.10.1.60 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	97.08	16.80	0.00	-97.08	163	309	Vertical
2	5727.58	53.22	16.98	68.30	15.08	216	257	Vertical
3	5740.00	52.63	17.06	68.30	15.67	169	295	Vertical
4	5752.94	52.25	17.12	68.30	16.05	264	134	Vertical
5	5762.76	52.66	17.14	68.30	15.64	228	267	Vertical

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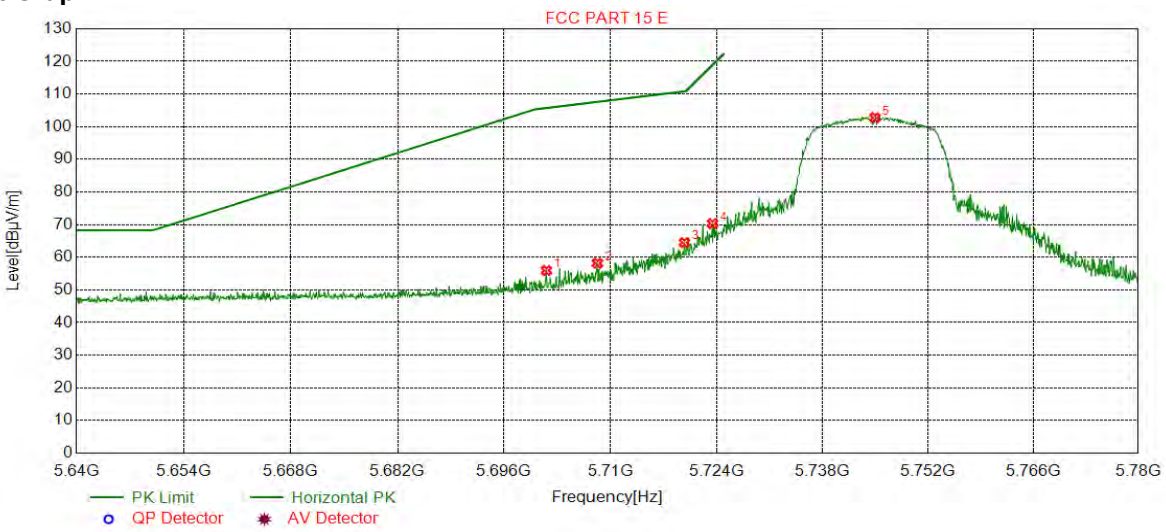
4.10.1.61 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5701.56	55.95	16.81	105.74	49.79	107	160	Horizontal
2	5708.28	58.22	16.85	107.62	49.40	237	146	Horizontal
3	5719.76	64.52	16.93	110.84	46.32	162	192	Horizontal
4	5723.48	70.32	16.95	118.84	48.52	141	151	Horizontal
5	5745.00	102.78	17.09	0.00	-102.78	120	156	Horizontal

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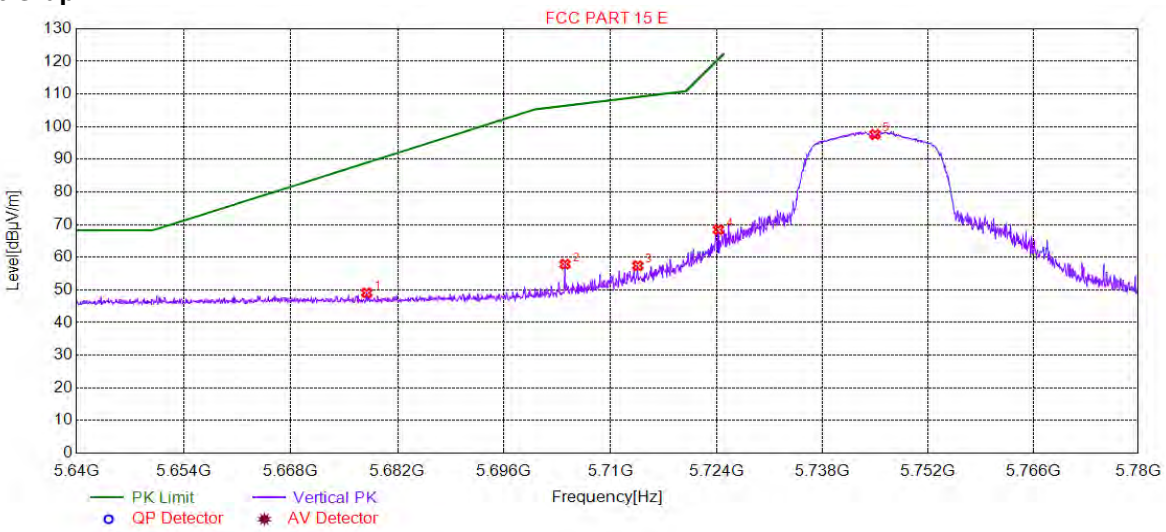
4.10.1.62 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5677.95	49.10	16.68	88.99	39.89	208	120	Vertical
2	5704.01	57.90	16.83	106.42	48.52	230	129	Vertical
3	5713.60	57.43	16.89	109.11	51.68	210	129	Vertical
4	5724.25	68.46	16.96	120.59	52.13	161	272	Vertical
5	5745.00	97.63	17.09	0.00	-97.63	210	263	Vertical

Final Data List

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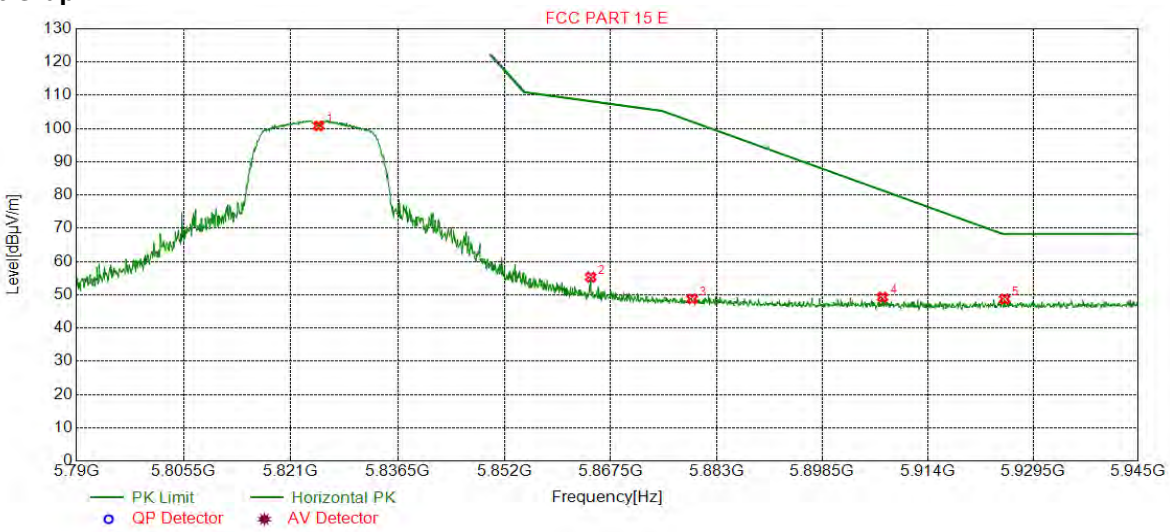
4.10.1.63 802.11AC20_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	100.81	17.23	0.00	-100.81	244	159	Horizontal
2	5864.59	55.32	17.22	108.21	52.89	224	201	Horizontal
3	5879.40	48.76	17.17	102.04	53.28	151	64	Horizontal
4	5907.31	49.30	17.22	81.39	32.09	223	191	Horizontal
5	5925.30	48.71	17.50	68.30	19.59	143	77	Horizontal

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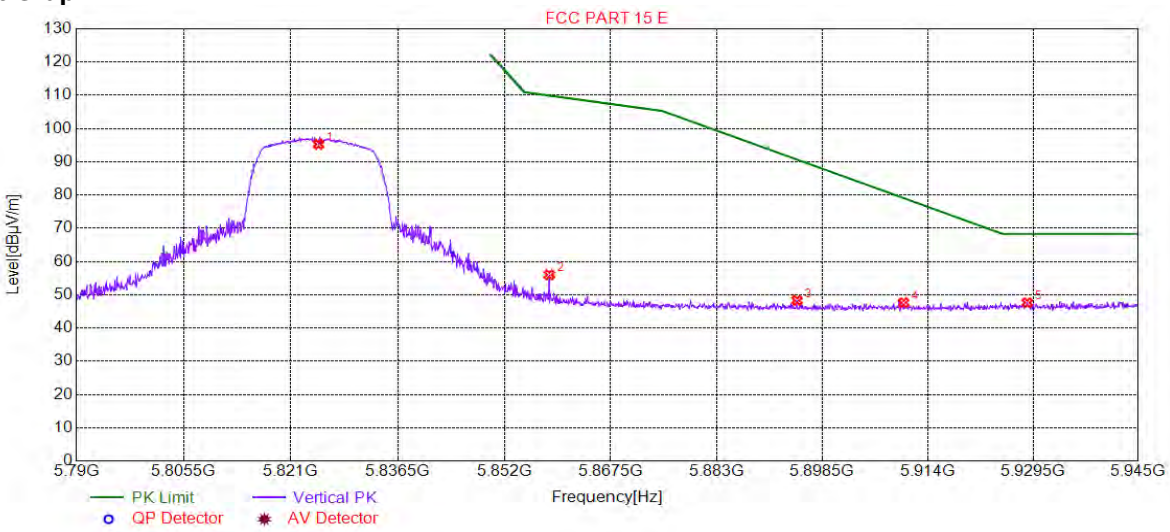
4.10.1.64 802.11AC20_Channel 165

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	95.26	17.23	0.00	-95.26	299	129	Vertical
2	5858.54	56.04	17.23	109.91	53.87	289	272	Vertical
3	5894.75	48.33	17.13	90.68	42.35	291	101	Vertical
4	5910.41	47.61	17.27	79.09	31.48	150	351	Vertical
5	5928.63	47.61	17.55	68.30	20.69	161	249	Vertical

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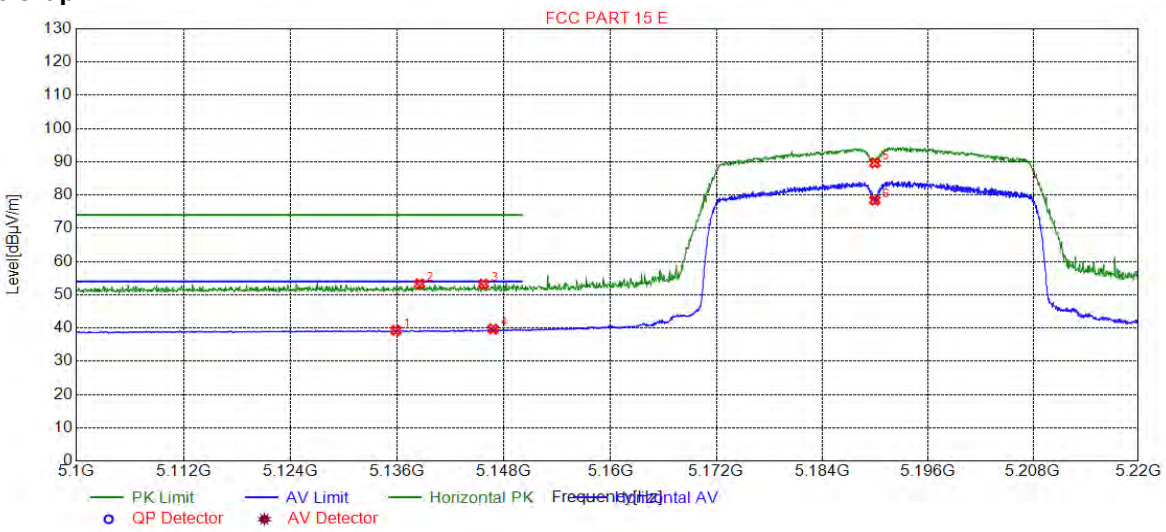
4.10.1.65 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.83	39.31	15.40	54.00	14.69	145	336	Horizontal
2	5138.47	53.27	15.42	74.00	20.73	196	74	Horizontal
3	5145.68	53.20	15.48	74.00	20.80	125	293	Horizontal
4	5146.76	39.76	15.49	54.00	14.24	205	325	Horizontal
5	5190.00	89.62	15.58	0.00	-89.62	237	336	Horizontal
6	5190.00	78.46	15.58	0.00	-78.46	160	330	Horizontal

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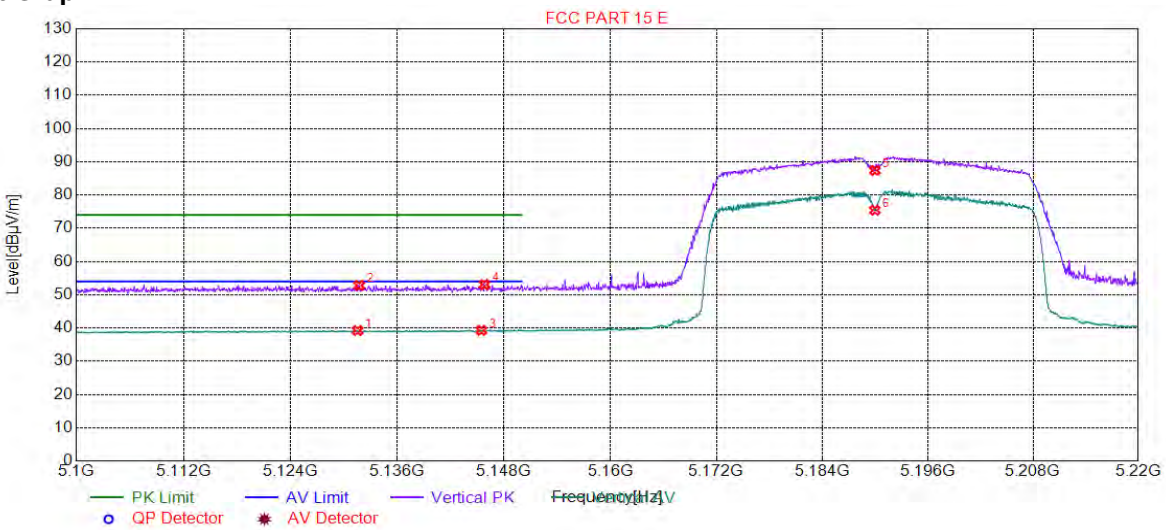
4.10.1.66 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5131.51	39.26	15.36	54.00	14.74	232	351	Vertical
2	5131.69	52.80	15.36	74.00	21.20	160	46	Vertical
3	5145.44	39.31	15.48	54.00	14.69	298	117	Vertical
4	5145.80	53.09	15.48	74.00	20.91	270	345	Vertical
5	5190.00	87.38	15.58	0.00	-87.38	174	292	Vertical
6	5190.00	75.43	15.58	0.00	-75.43	190	302	Vertical

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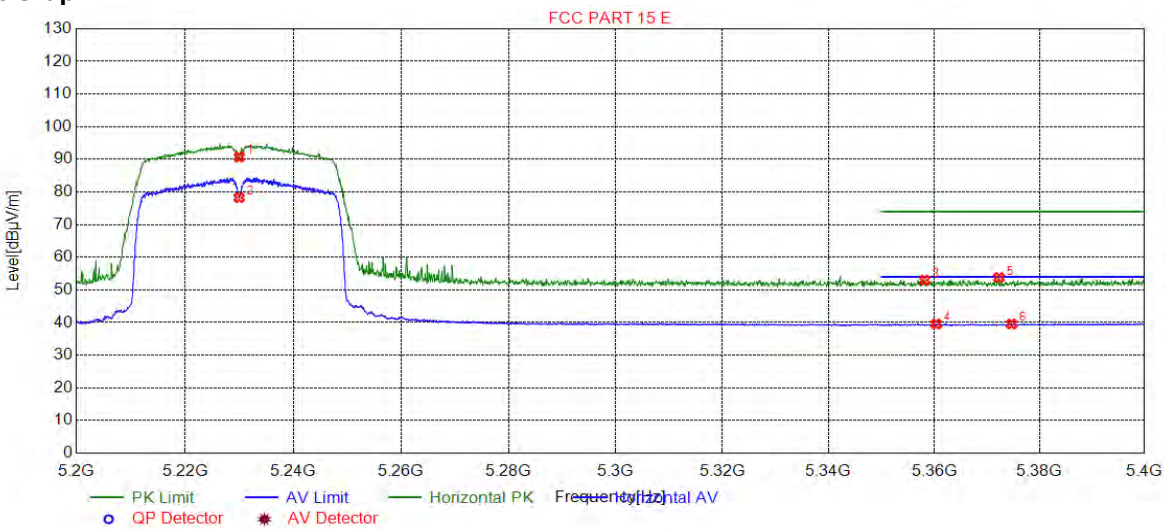
4.10.1.67 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	90.72	15.51	0.00	-90.72	185	78	Horizontal
2	5230.00	78.28	15.51	0.00	-78.28	124	325	Horizontal
3	5358.17	53.00	15.99	74.00	21.00	242	298	Horizontal
4	5360.38	39.55	16.00	54.00	14.45	207	64	Horizontal
5	5372.28	53.80	16.08	74.00	20.20	164	51	Horizontal
6	5374.68	39.55	16.09	54.00	14.45	210	284	Horizontal

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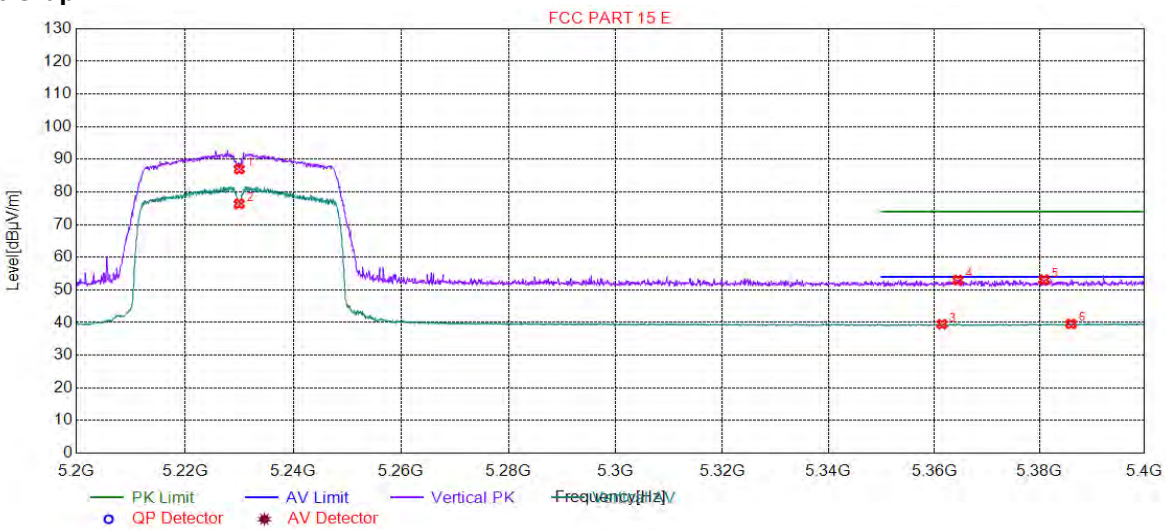
4.10.1.68 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	87.01	15.51	0.00	-87.01	276	281	Vertical
2	5230.00	76.37	15.51	0.00	-76.37	266	288	Vertical
3	5361.48	39.52	16.01	54.00	14.48	280	360	Vertical
4	5364.48	53.01	16.03	74.00	20.99	275	186	Vertical
5	5380.89	53.12	16.13	74.00	20.88	224	76	Vertical
6	5385.99	39.59	16.16	54.00	14.41	256	158	Vertical

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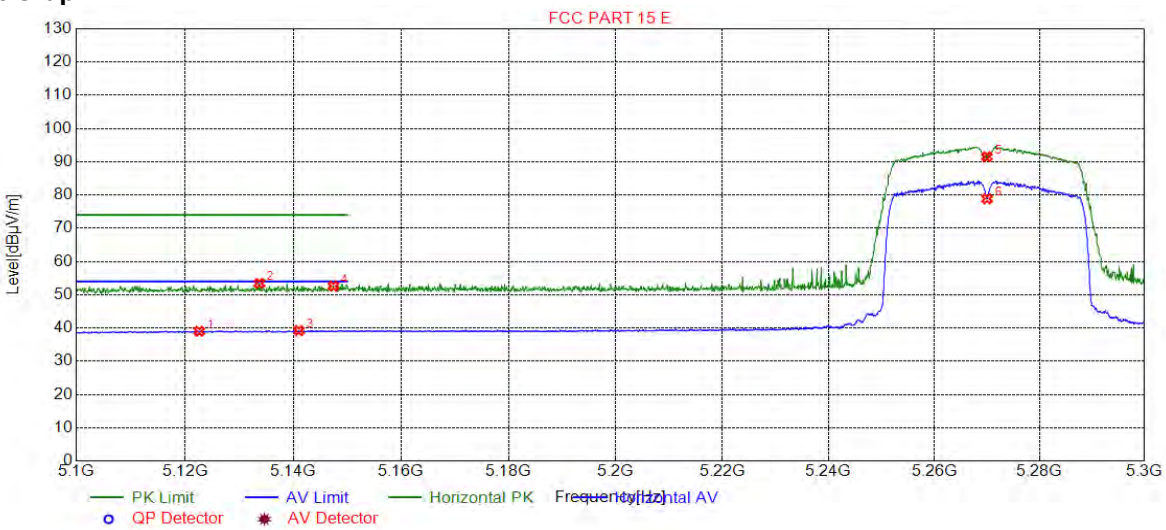
4.10.1.69 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.61	39.04	15.28	54.00	14.96	242	221	Horizontal
2	5133.71	53.46	15.38	74.00	20.54	234	277	Horizontal
3	5141.02	39.24	15.44	54.00	14.76	186	311	Horizontal
4	5147.42	52.64	15.50	74.00	21.36	139	46	Horizontal
5	5270.00	91.52	15.56	0.00	-91.52	103	338	Horizontal
6	5270.00	78.89	15.56	0.00	-78.89	158	331	Horizontal

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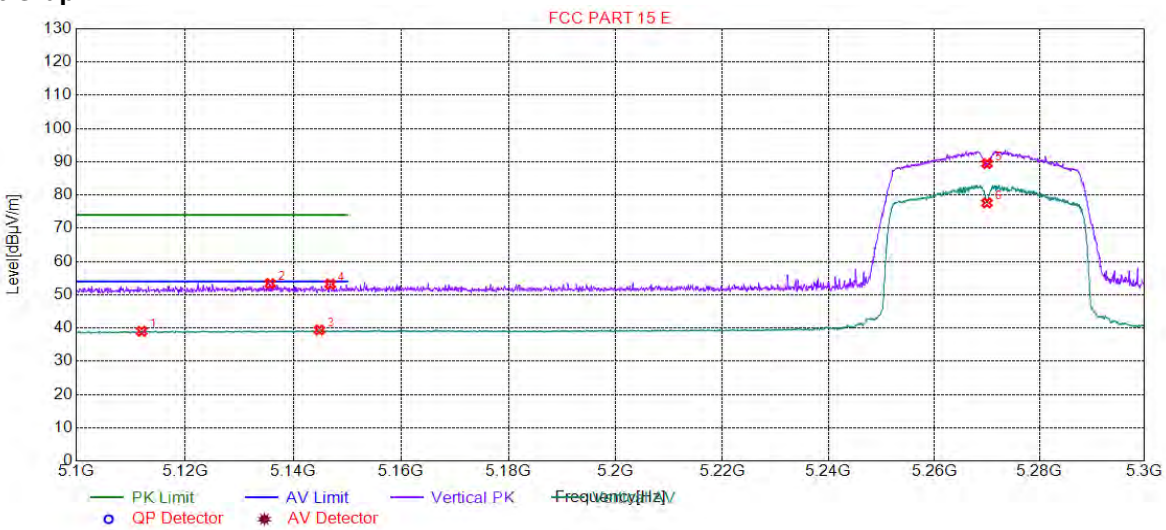
4.10.1.70 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5112.00	39.05	15.19	54.00	14.95	216	252	Vertical
2	5135.71	53.38	15.40	74.00	20.62	294	197	Vertical
3	5144.82	39.41	15.48	54.00	14.59	169	322	Vertical
4	5146.82	53.21	15.49	74.00	20.79	193	184	Vertical
5	5270.00	89.46	15.56	0.00	-89.46	186	287	Vertical
6	5270.00	77.64	15.56	0.00	-77.64	275	301	Vertical

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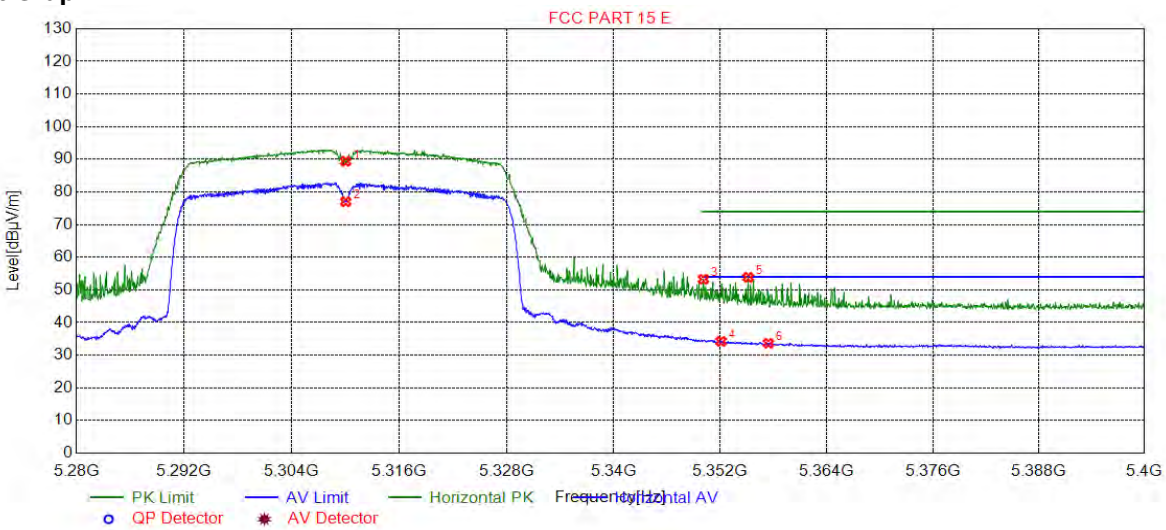
4.10.1.71 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	89.41	15.75	0.00	-89.41	143	332	Horizontal
2	5310.00	77.01	15.75	0.00	-77.01	110	338	Horizontal
3	5350.11	53.28	15.94	74.00	20.72	145	67	Horizontal
4	5352.09	34.25	15.95	54.00	19.75	227	332	Horizontal
5	5355.15	53.85	15.97	74.00	20.15	140	197	Horizontal
6	5357.43	33.67	15.99	54.00	20.33	113	344	Horizontal

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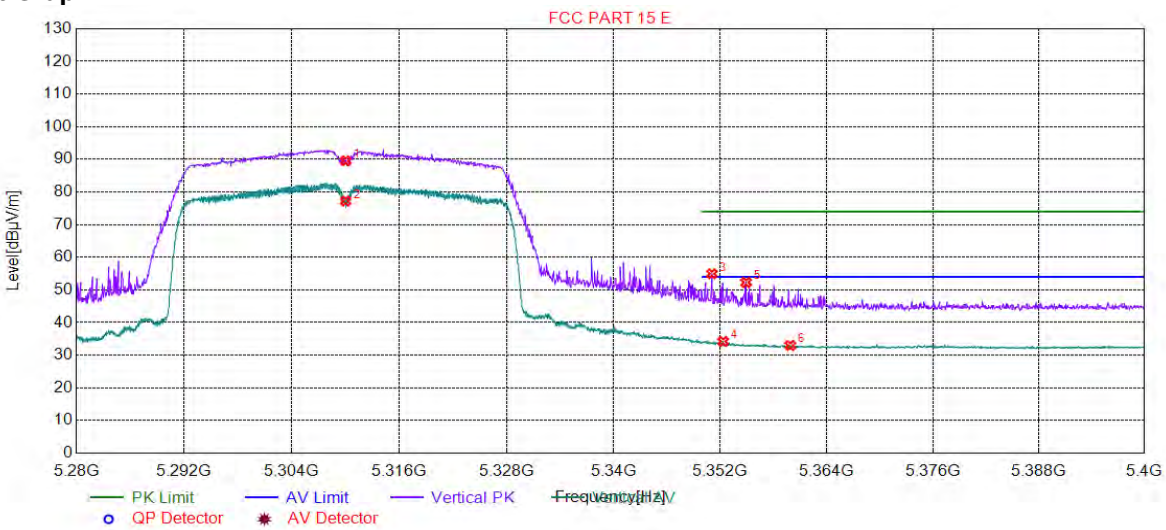
4.10.1.72 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	89.57	15.75	0.00	-89.57	233	306	Vertical
2	5310.00	77.24	15.75	0.00	-77.24	290	306	Vertical
3	5351.07	54.95	15.95	74.00	19.05	191	293	Vertical
4	5352.33	34.23	15.95	54.00	19.77	175	306	Vertical
5	5354.91	52.32	15.97	74.00	21.68	279	280	Vertical
6	5359.90	33.00	16.00	54.00	21.00	151	306	Vertical

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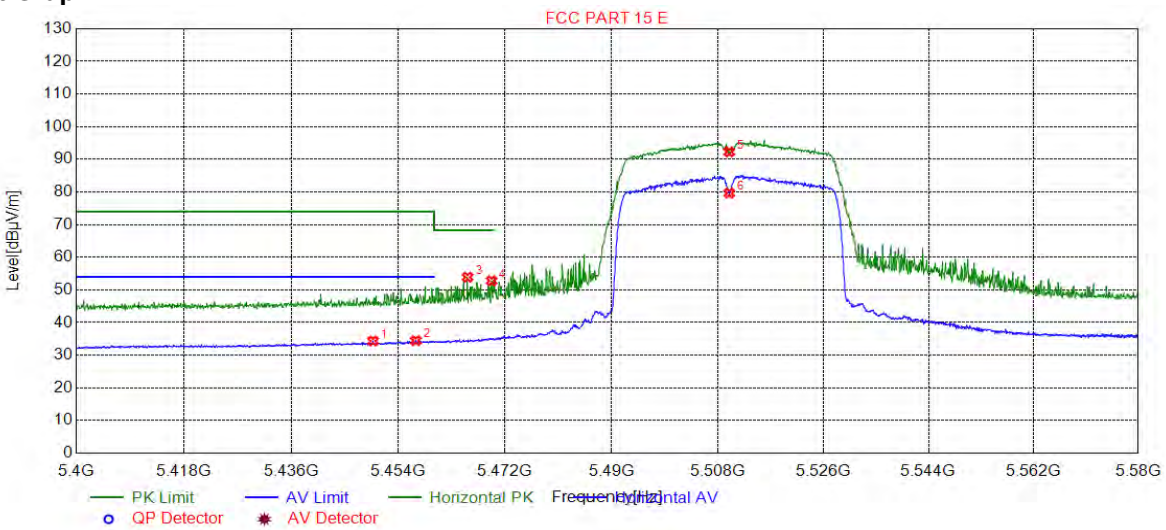
4.10.1.73 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.70	34.37	16.25	54.00	19.63	155	338	Horizontal
2	5456.90	34.48	16.25	54.00	19.52	192	154	Horizontal
3	5465.64	53.93	16.25	68.30	14.37	153	331	Horizontal
4	5469.69	52.81	16.25	68.30	15.49	134	201	Horizontal
5	5510.00	92.29	16.28	0.00	-92.29	180	154	Horizontal
6	5510.00	79.69	16.28	0.00	-79.69	143	154	Horizontal

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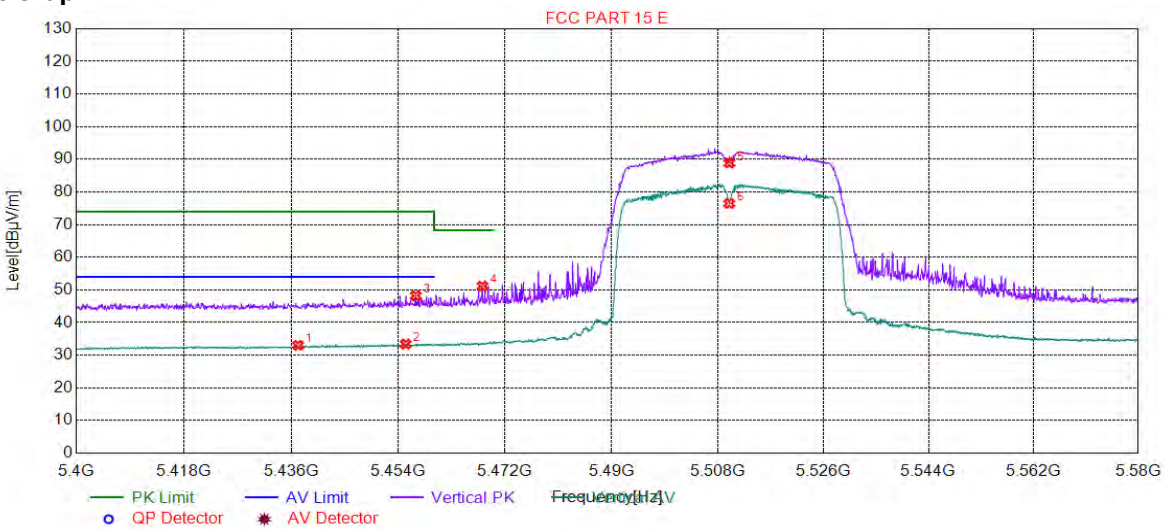
4.10.1.74 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5437.09	33.04	16.25	54.00	20.96	281	273	Vertical
2	5455.19	33.42	16.25	54.00	20.58	169	286	Vertical
3	5456.90	48.22	16.25	74.00	25.78	156	266	Vertical
4	5468.16	51.16	16.25	68.30	17.14	248	273	Vertical
5	5510.00	88.89	16.28	0.00	-88.89	245	293	Vertical
6	5510.00	76.48	16.28	0.00	-76.48	178	266	Vertical

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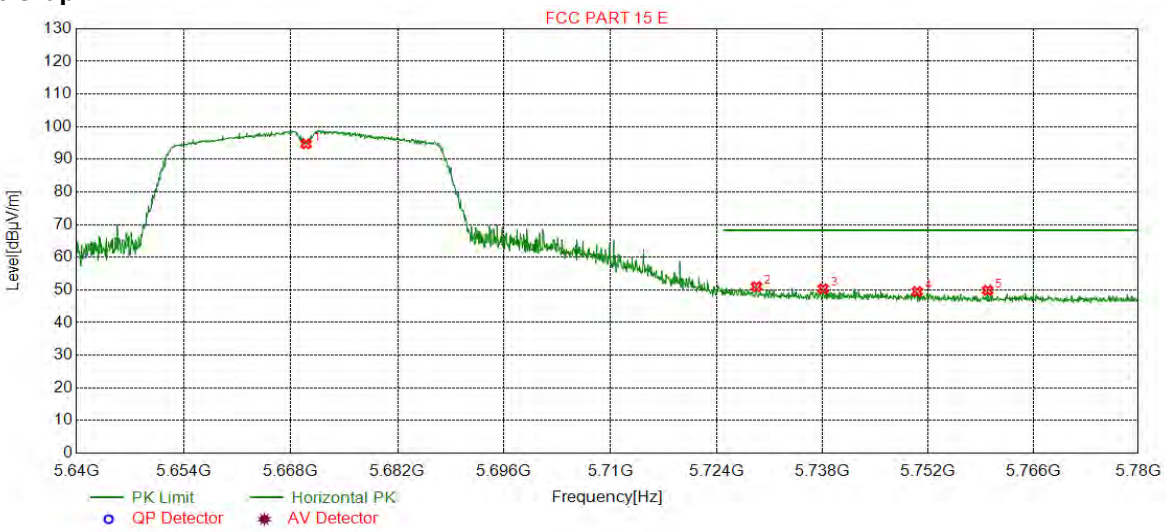
4.10.1.75 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	94.74	16.64	0.00	-94.74	199	149	Horizontal
2	5729.29	51.03	16.99	68.30	17.27	115	199	Horizontal
3	5738.11	50.36	17.04	68.30	17.94	201	153	Horizontal
4	5750.58	49.49	17.12	68.30	18.81	218	149	Horizontal
5	5759.97	49.88	17.13	68.30	18.42	170	149	Horizontal

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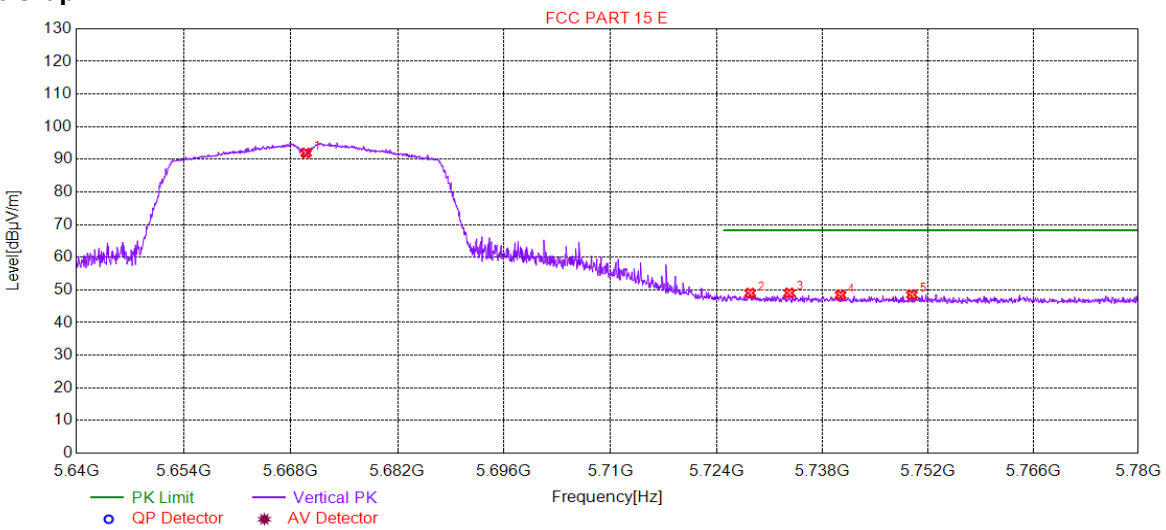
4.10.1.76 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	91.96	16.64	0.00	-91.96	178	129	Vertical
2	5728.45	49.03	16.98	68.30	19.27	213	106	Vertical
3	5733.63	49.08	17.02	68.30	19.22	155	120	Vertical
4	5740.43	48.43	17.06	68.30	19.87	215	254	Vertical
5	5749.88	48.52	17.12	68.30	19.78	259	120	Vertical

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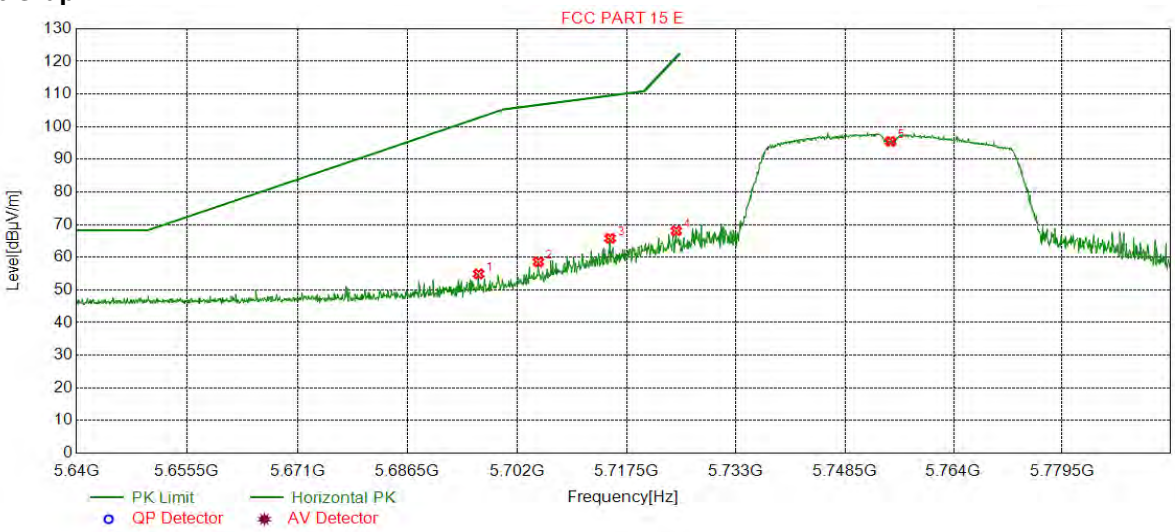
4.10.1.77 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5696.52	54.92	16.78	102.73	47.81	153	149	Horizontal
2	5704.97	58.60	16.83	106.69	48.09	172	208	Horizontal
3	5715.13	65.83	16.90	109.54	43.71	183	158	Horizontal
4	5724.51	68.11	16.96	121.20	53.09	184	204	Horizontal
5	5755.00	95.49	17.13	0.00	-95.49	241	158	Horizontal

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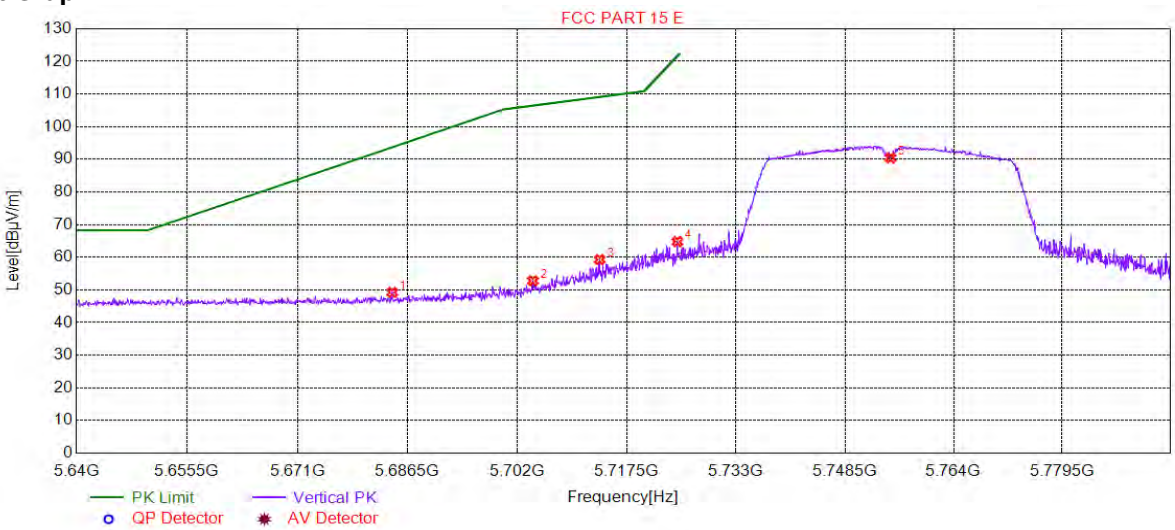
4.10.1.78 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5684.35	49.26	16.72	93.72	44.46	233	275	Vertical
2	5704.20	52.81	16.83	106.48	53.67	207	111	Vertical
3	5713.66	59.30	16.89	109.13	49.83	154	107	Vertical
4	5724.67	64.83	16.96	121.55	56.72	209	88	Vertical
5	5755.00	90.43	17.13	0.00	-90.43	163	280	Vertical

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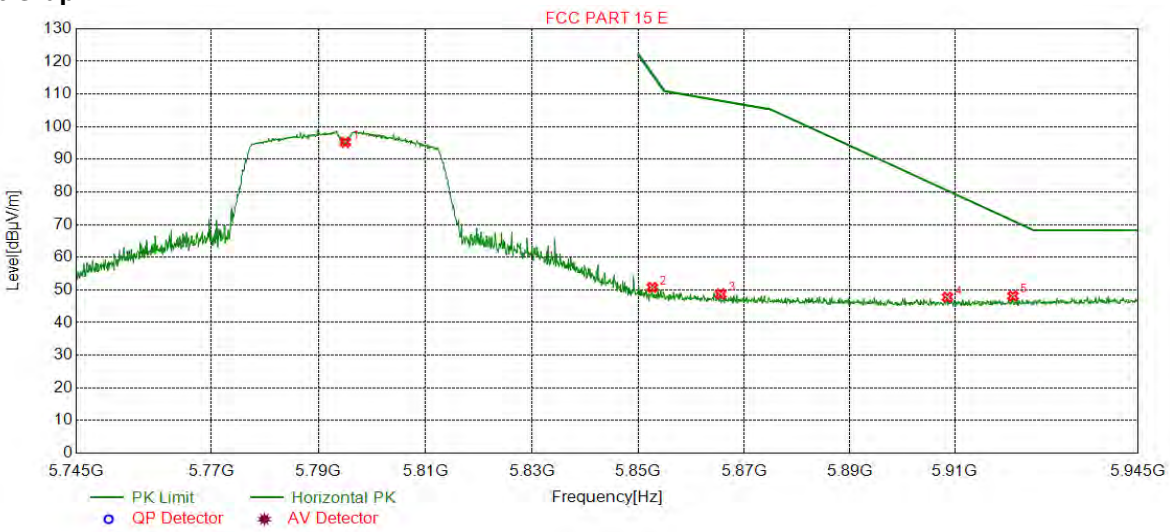
4.10.1.79 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	95.21	17.18	0.00	-95.21	242	157	Horizontal
2	5852.65	50.78	17.25	116.25	65.47	246	208	Horizontal
3	5865.56	48.76	17.21	107.94	59.18	196	198	Horizontal
4	5908.58	47.78	17.24	80.45	32.67	142	79	Horizontal
5	5921.08	48.16	17.43	71.19	23.03	229	84	Horizontal

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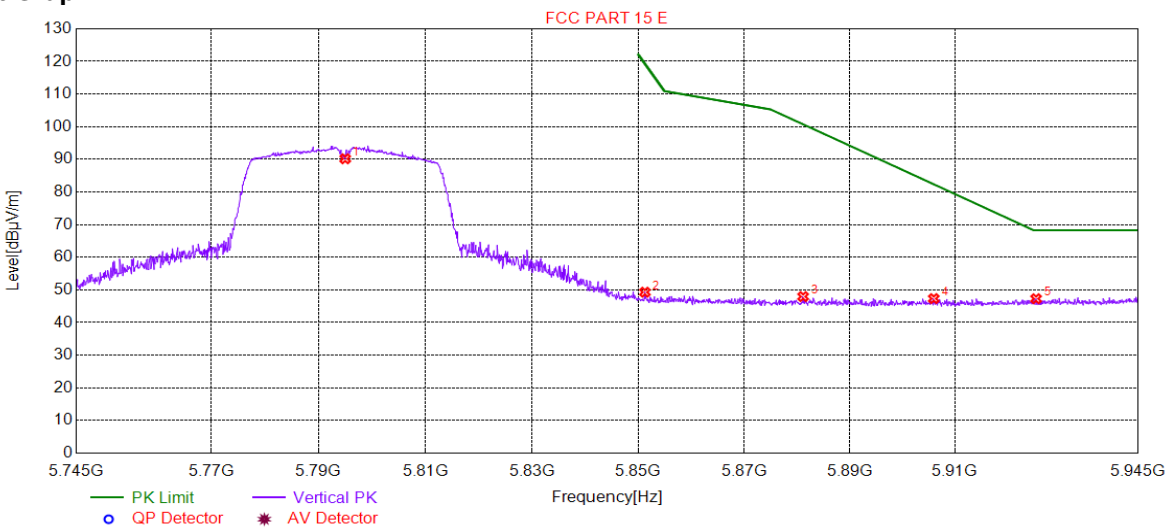
4.10.1.80 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	90.18	17.18	0.00	-90.18	208	329	Vertical
2	5851.25	49.32	17.26	119.44	70.12	191	256	Vertical
3	5881.16	47.97	17.17	100.74	52.77	192	16	Vertical
4	5905.98	47.35	17.20	82.37	35.02	177	353	Vertical
5	5925.49	47.32	17.50	68.30	20.98	271	338	Vertical

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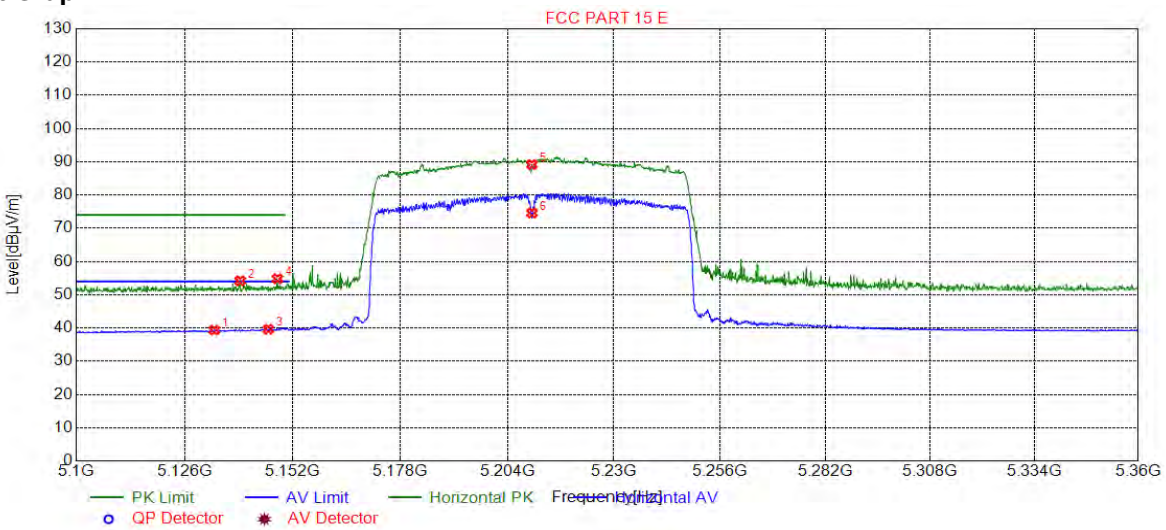
4.10.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5133.03	39.39	15.37	54.00	14.61	139	324	Horizontal
2	5139.27	54.22	15.43	74.00	19.78	173	90	Horizontal
3	5146.04	39.65	15.49	54.00	14.35	227	331	Horizontal
4	5148.25	54.85	15.50	74.00	19.15	175	151	Horizontal
5	5210.00	89.18	15.56	0.00	-89.18	227	324	Horizontal
6	5210.00	74.63	15.56	0.00	-74.63	145	76	Horizontal

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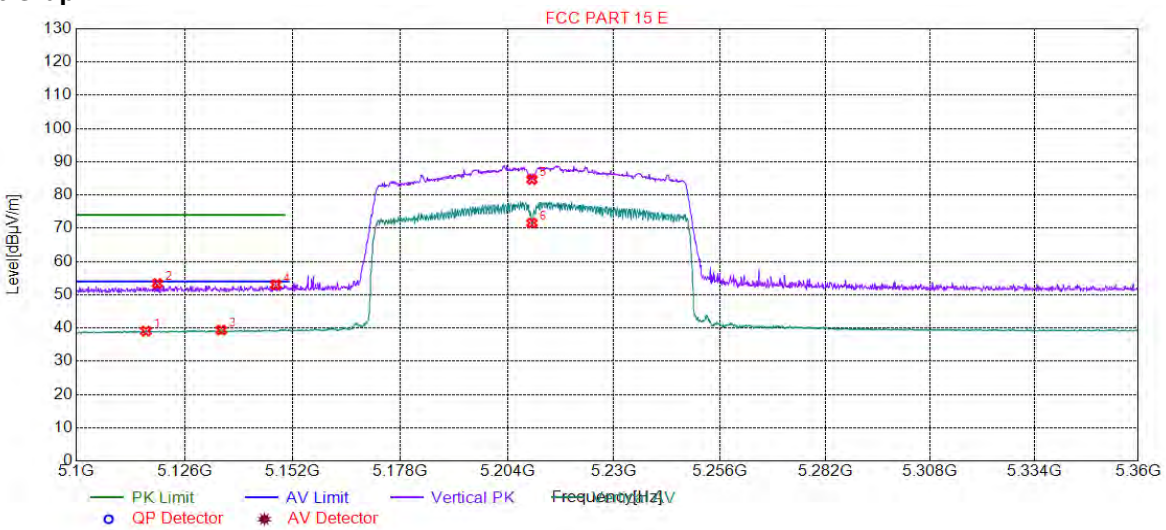
4.10.1.82 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5116.64	39.09	15.23	54.00	14.91	170	247	Vertical
2	5119.37	53.40	15.26	74.00	20.60	259	336	Vertical
3	5134.72	39.39	15.39	54.00	14.61	263	130	Vertical
4	5147.86	53.05	15.50	74.00	20.95	270	329	Vertical
5	5210.00	84.68	15.56	0.00	-84.68	186	144	Vertical
6	5210.00	71.57	15.56	0.00	-71.57	162	124	Vertical

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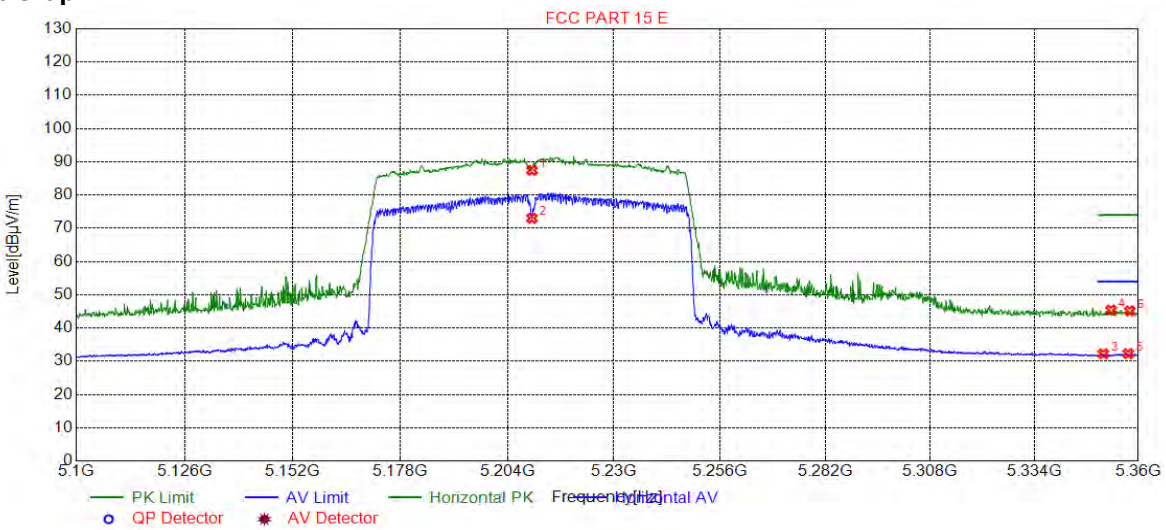
4.10.1.83 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	87.44	15.56	0.00	-87.44	143	81	Horizontal
2	5210.00	73.03	15.56	0.00	-73.03	134	88	Horizontal
3	5351.28	32.25	15.95	54.00	21.75	246	331	Horizontal
4	5353.23	45.44	15.96	74.00	28.56	161	60	Horizontal
5	5357.52	32.31	15.99	54.00	21.69	206	338	Horizontal
6	5357.91	45.16	15.99	74.00	28.84	122	6	Horizontal

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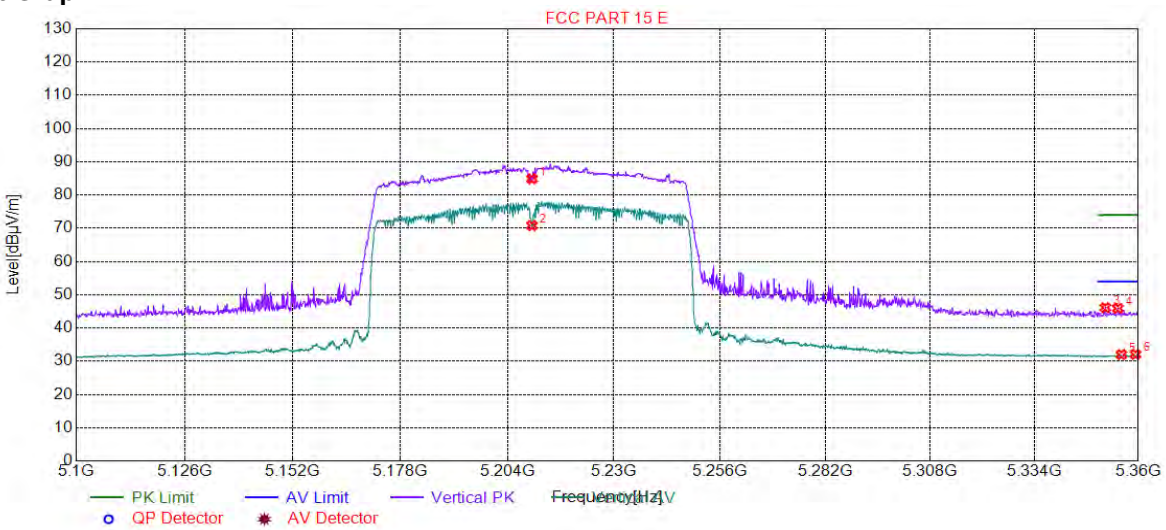
4.10.1.84 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	84.87	15.56	0.00	-84.87	246	287	Vertical
2	5210.00	70.82	15.56	0.00	-70.82	290	287	Vertical
3	5351.80	46.14	15.95	74.00	27.86	279	214	Vertical
4	5354.92	45.94	15.97	74.00	28.06	296	267	Vertical
5	5355.83	32.04	15.98	54.00	21.96	279	274	Vertical
6	5359.34	32.08	16.00	54.00	21.92	175	138	Vertical

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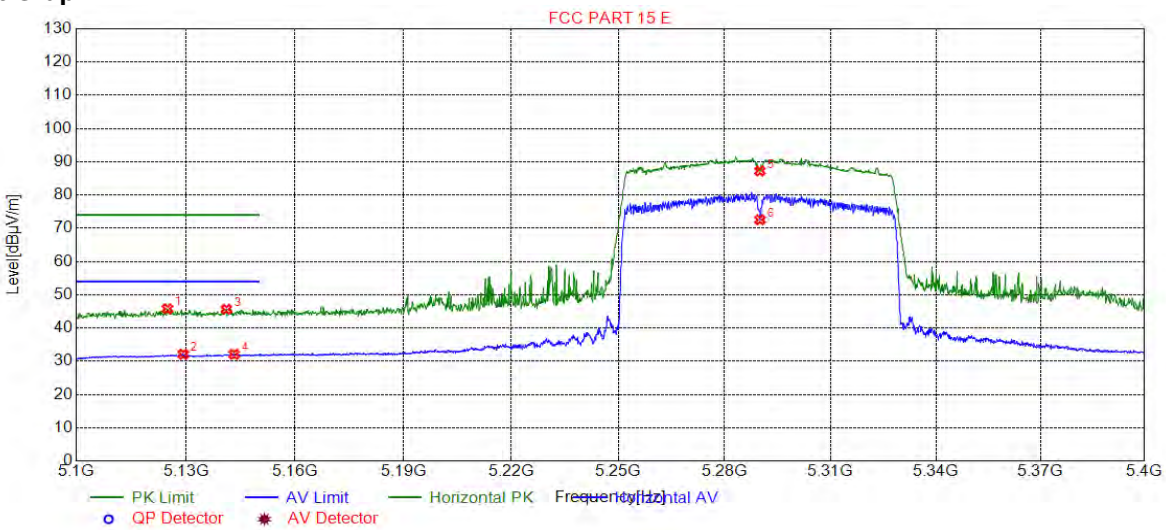
4.10.1.85 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5124.91	45.79	15.30	74.00	28.21	215	310	Horizontal
2	5129.26	32.10	15.34	54.00	21.90	174	64	Horizontal
3	5141.12	45.65	15.44	74.00	28.35	237	146	Horizontal
4	5143.22	32.09	15.46	54.00	21.91	140	331	Horizontal
5	5290.00	87.22	15.65	0.00	-87.22	208	338	Horizontal
6	5290.00	72.57	15.65	0.00	-72.57	238	70	Horizontal

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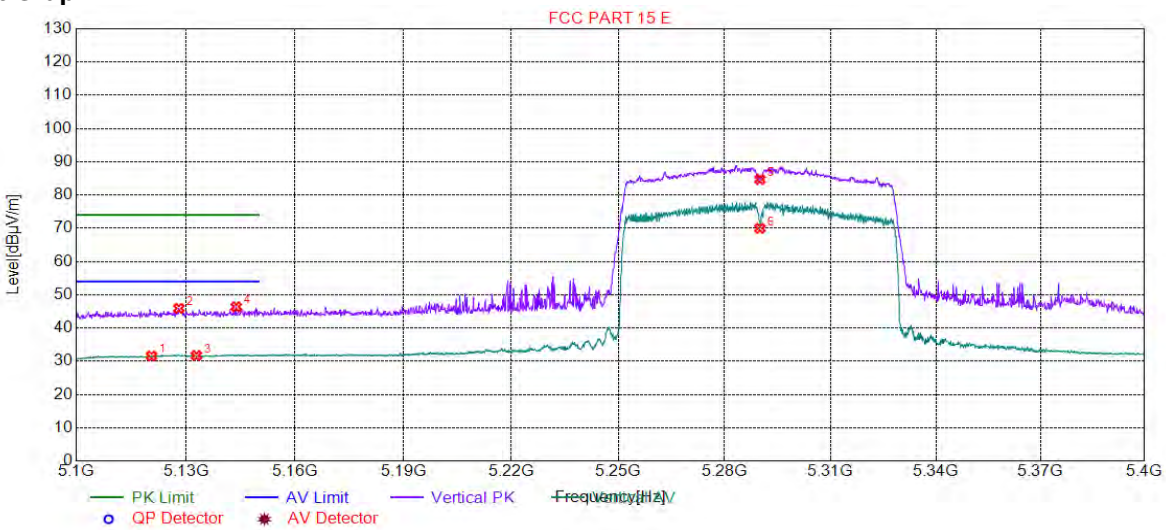
4.10.1.86 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.56	31.61	15.27	54.00	22.39	177	286	Vertical
2	5128.06	45.94	15.33	74.00	28.06	292	16	Vertical
3	5132.86	31.72	15.37	54.00	22.28	245	294	Vertical
4	5143.82	46.39	15.47	74.00	27.61	195	211	Vertical
5	5290.00	84.68	15.65	0.00	-84.68	270	273	Vertical
6	5290.00	69.99	15.65	0.00	-69.99	163	136	Vertical

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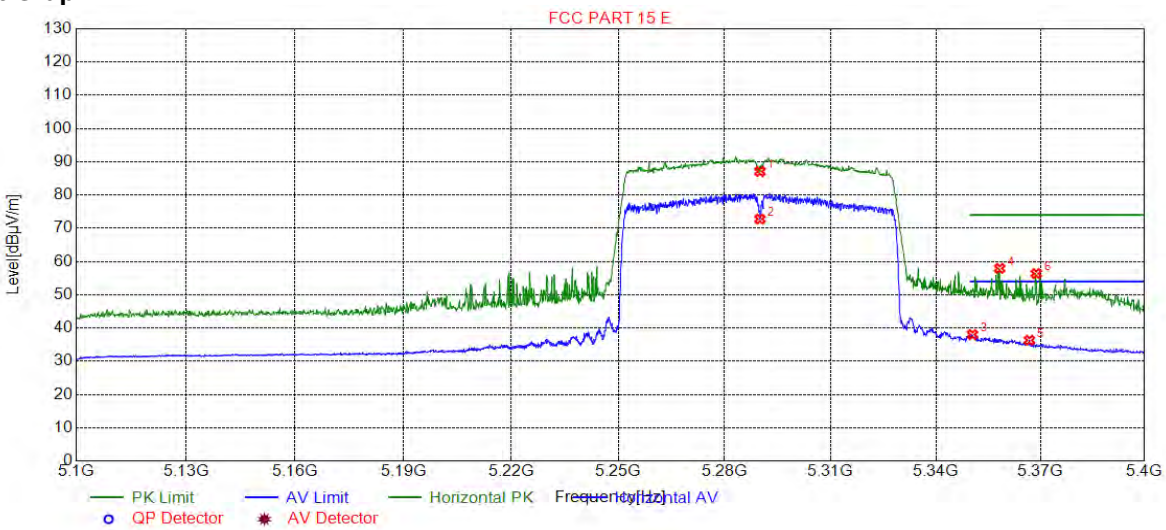
4.10.1.87 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	87.08	15.65	0.00	-87.08	144	64	Horizontal
2	5290.00	72.79	15.65	0.00	-72.79	200	338	Horizontal
3	5350.47	38.06	15.94	54.00	15.94	105	331	Horizontal
4	5358.27	57.94	15.99	74.00	16.06	117	146	Horizontal
5	5366.83	36.33	16.04	54.00	17.67	165	331	Horizontal
6	5368.78	56.41	16.06	74.00	17.59	204	338	Horizontal

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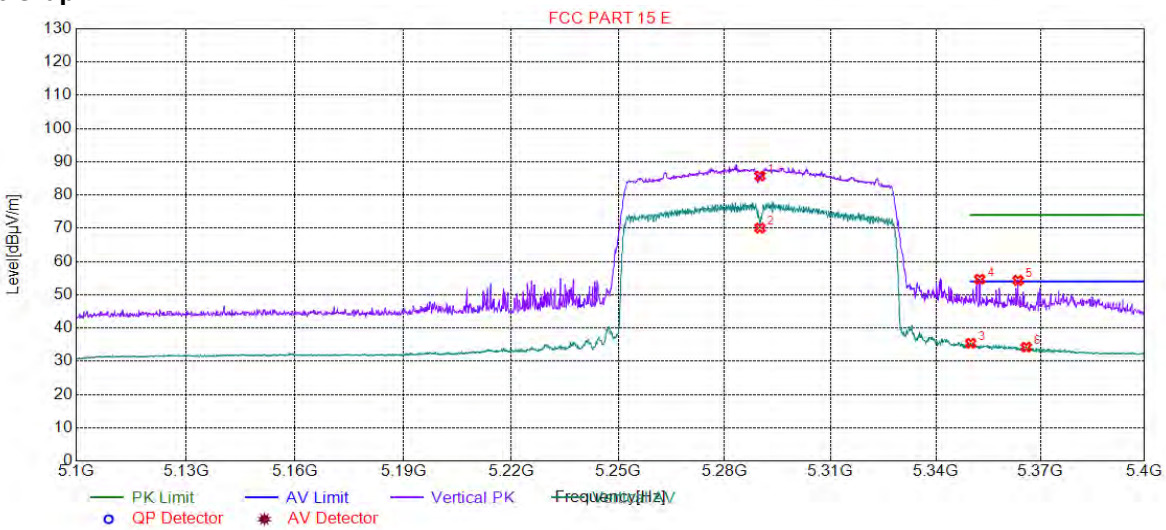
4.10.1.88 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	85.74	15.65	0.00	-85.74	265	273	Vertical
2	5290.00	70.07	15.65	0.00	-70.07	186	300	Vertical
3	5350.02	35.41	15.94	54.00	18.59	251	280	Vertical
4	5352.57	54.71	15.96	74.00	19.29	198	293	Vertical
5	5363.53	54.33	16.02	74.00	19.67	265	273	Vertical
6	5365.93	34.27	16.04	54.00	19.73	265	287	Vertical

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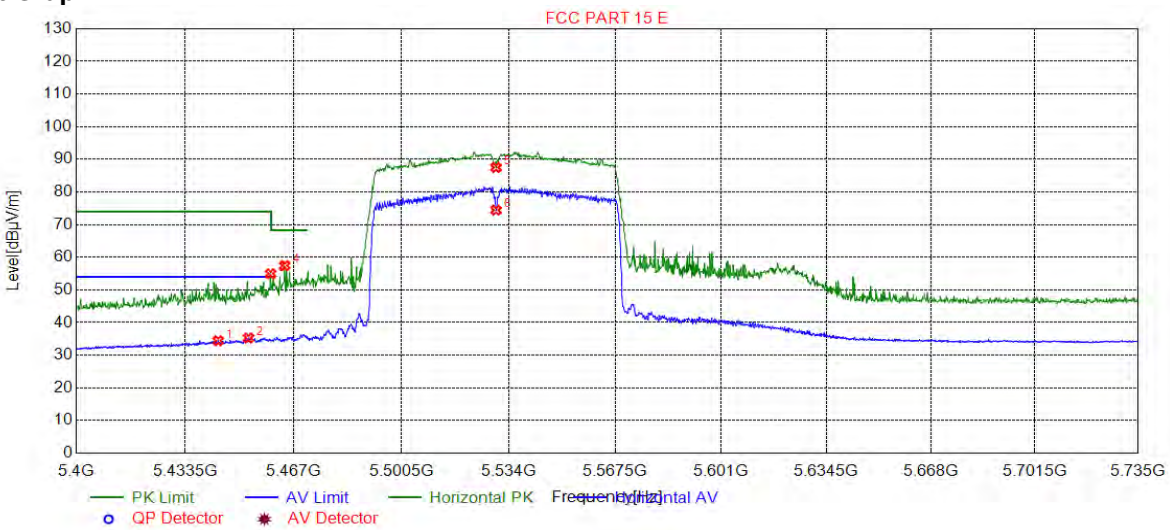
4.10.1.89 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5443.57	34.44	16.25	54.00	19.56	167	344	Horizontal
2	5452.95	35.27	16.25	54.00	18.73	112	344	Horizontal
3	5459.82	54.95	16.25	74.00	19.05	217	211	Horizontal
4	5464.18	57.48	16.25	68.30	10.82	230	338	Horizontal
5	5530.00	87.51	16.35	0.00	-87.51	112	344	Horizontal
6	5530.00	74.44	16.35	0.00	-74.44	236	0	Horizontal

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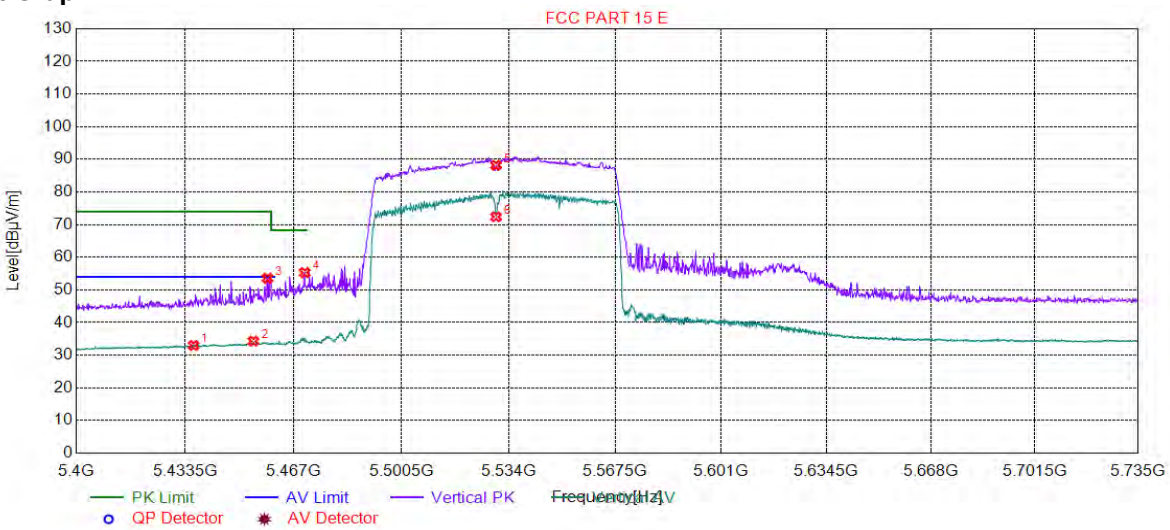
4.10.1.90 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5436.03	33.00	16.25	54.00	21.00	169	123	Vertical
2	5454.46	34.31	16.25	54.00	19.69	213	137	Vertical
3	5458.82	53.59	16.25	74.00	20.41	212	278	Vertical
4	5470.38	55.32	16.25	68.30	12.98	292	137	Vertical
5	5530.00	88.20	16.35	0.00	-88.20	169	123	Vertical
6	5530.00	72.41	16.35	0.00	-72.41	273	299	Vertical

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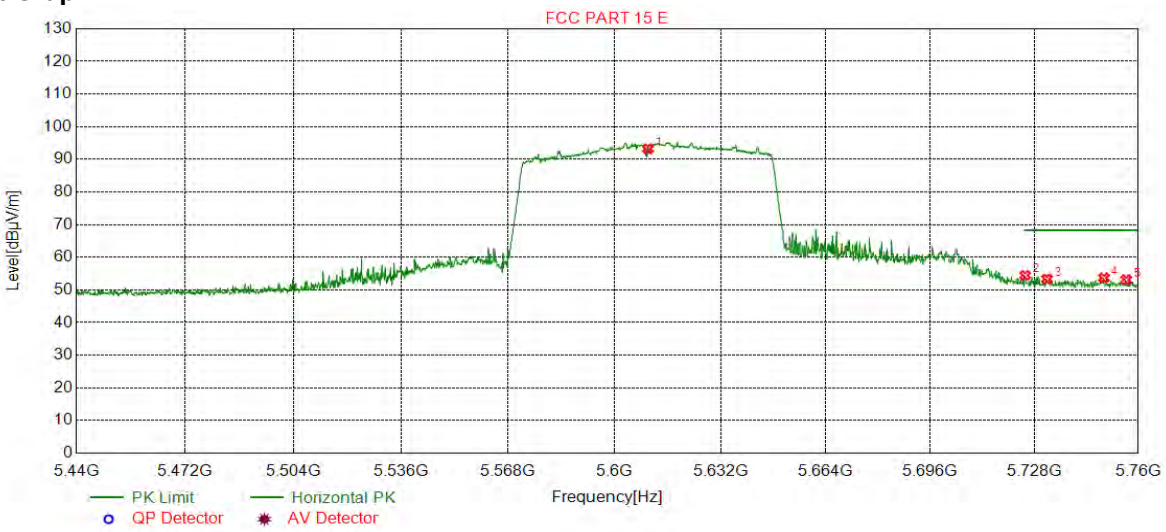
4.10.1.91 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	93.22	16.58	0.00	-93.22	143	213	Horizontal
2	5725.10	54.46	16.96	68.30	13.84	208	93	Horizontal
3	5731.82	53.35	17.00	68.30	14.95	151	167	Horizontal
4	5749.43	53.67	17.12	68.30	14.63	176	167	Horizontal
5	5756.31	53.14	17.13	68.30	15.16	230	16	Horizontal

Final Data List

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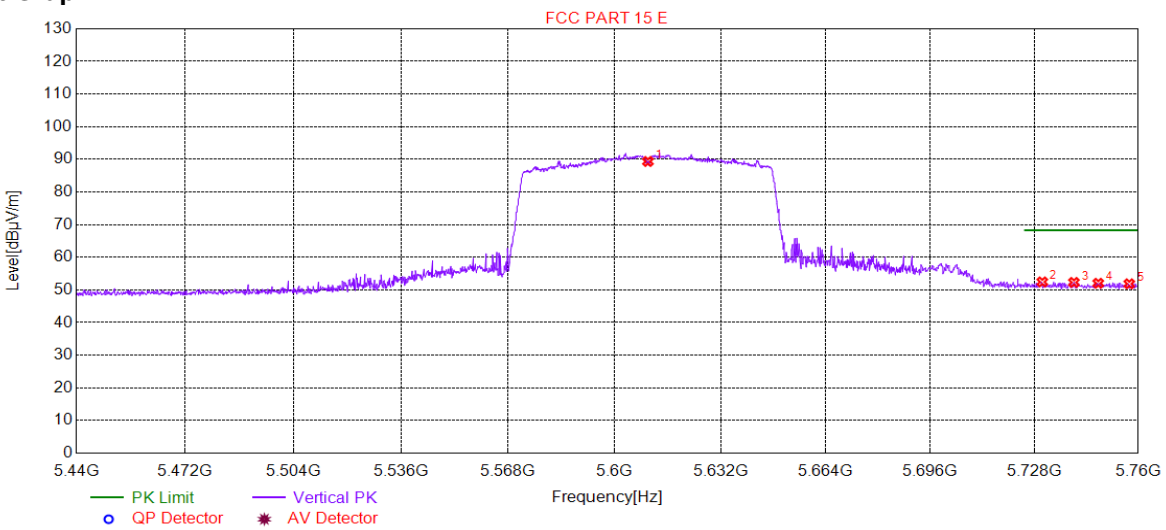
4.10.1.92 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	89.36	16.58	0.00	-89.36	286	277	Vertical
2	5730.38	52.46	16.99	68.30	15.84	156	40	Vertical
3	5740.15	52.31	17.06	68.30	15.99	290	326	Vertical
4	5747.67	52.05	17.11	68.30	16.25	234	147	Vertical
5	5757.27	51.88	17.13	68.30	16.42	295	235	Vertical

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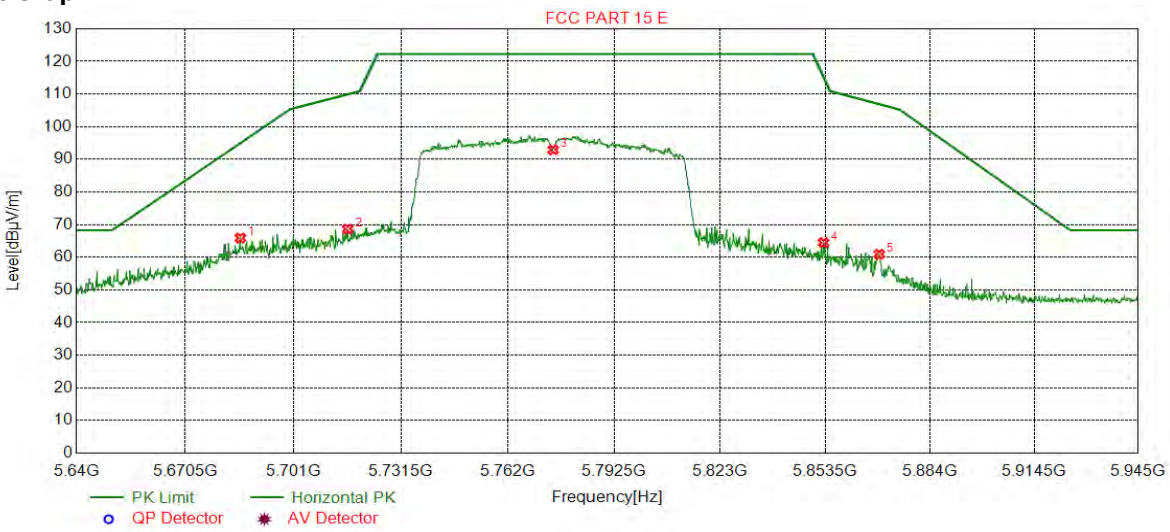
4.10.1.93 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5686.07	65.92	16.72	95.00	29.08	213	198	Horizontal
2	5716.44	68.65	16.91	109.90	41.25	214	207	Horizontal
3	5775.00	92.92	17.16	122.30	29.38	111	166	Horizontal
4	5852.99	64.48	17.25	115.47	50.99	112	162	Horizontal
5	5869.16	60.94	17.20	106.93	45.99	113	162	Horizontal

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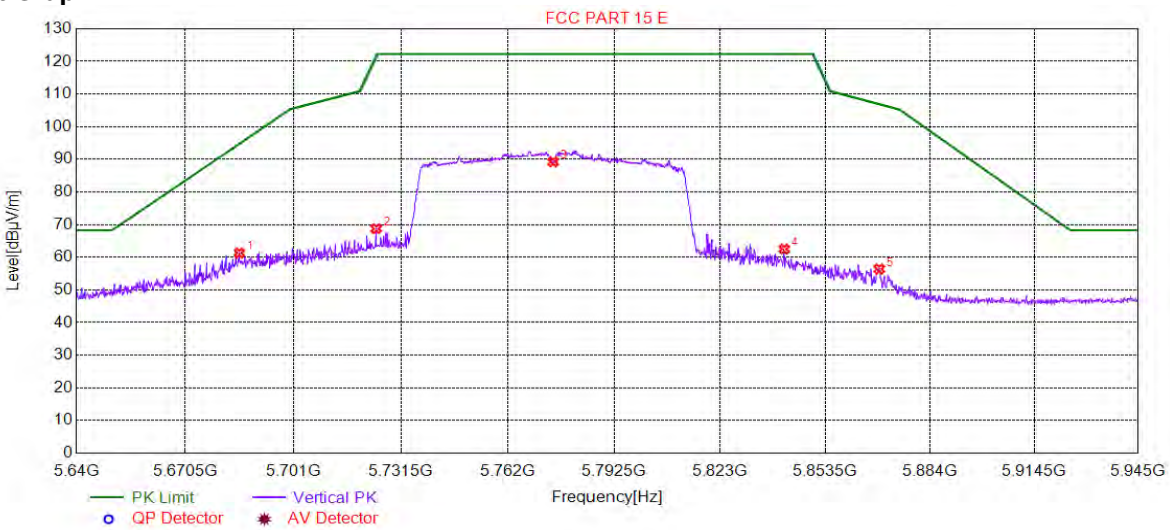
4.10.1.94 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5685.77	61.33	16.72	94.77	33.44	293	134	Vertical
2	5724.52	68.78	16.96	121.22	52.44	191	254	Vertical
3	5775.00	89.25	17.16	122.30	33.05	174	258	Vertical
4	5841.55	62.51	17.25	122.30	59.79	238	101	Vertical
5	5869.16	56.43	17.20	106.93	50.50	266	97	Vertical

Final Data List

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
All modes have been tested, but only the worst case data displayed in this report.

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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.004921	5825.007955
V max(V)	5180.012335	5825.008627
V min(V)	5180.009081	5825.006371
Max. Deviation Frequency	0.012335	0.008627
Max. Frequency Error (ppm)	2.381351	1.480957

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.006314	5825.009856
5	5180.007751	5825.002400
15	5180.007733	5825.010544
25	5180.013151	5825.015275
35	5180.012867	5825.022038
45	5180.011759	5825.002795
50	5180.003918	5824.998131
Max. Deviation Frequency	0.013151	0.022038
Max. Frequency Error (ppm)	2.538894	3.783428

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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
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	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
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	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 ≥ 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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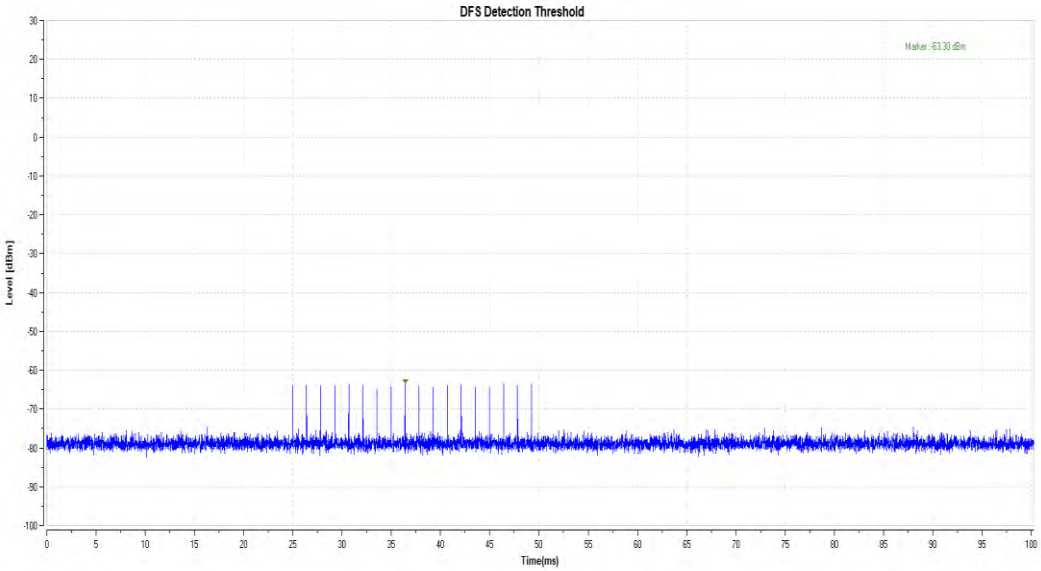
4.12.4 Test plots

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0



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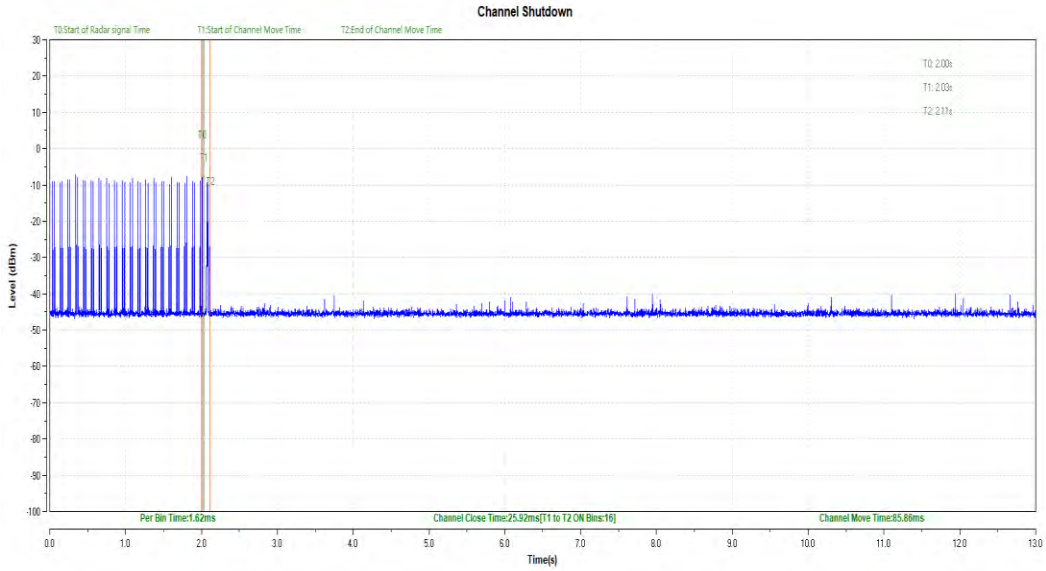
4.12.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5290MHz	Channel Move Time	0s	＜10s	Pass
	Channel Closing Transmission Time	25.92ms	＜60ms	Pass
80MHz / 5530MHz	Channel Move Time	0s	＜10s	Pass
	Channel Closing Transmission Time	6.48ms	＜60ms	Pass

4.12.5.1 Test plots

4.12.5.1.1 Test Bandwidth/Channel= 80MHz / 5290MHz



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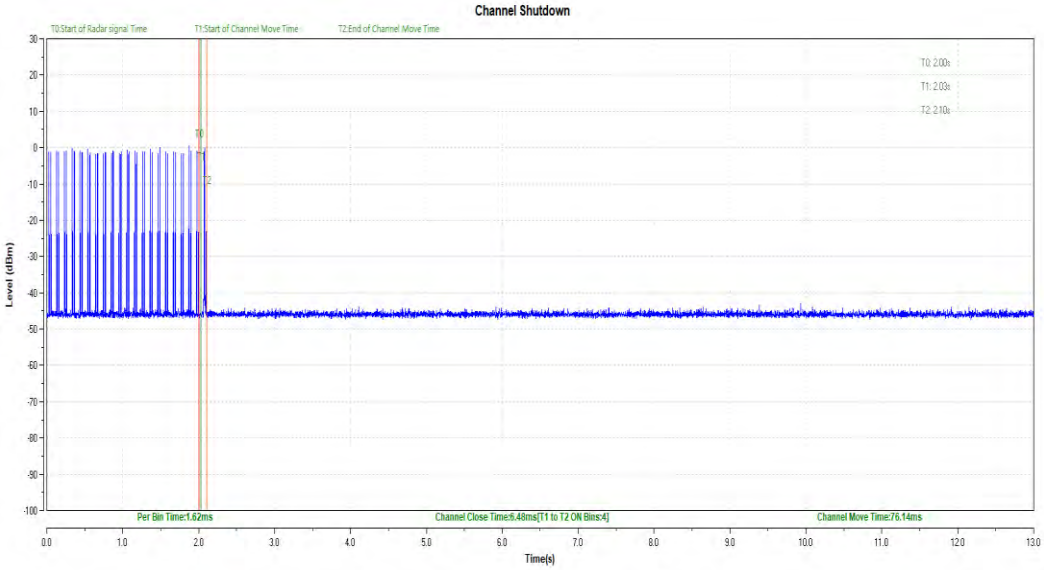
4.12.5.1.2 Test Bandwidth/Channel= 80MHz / 5530MHz



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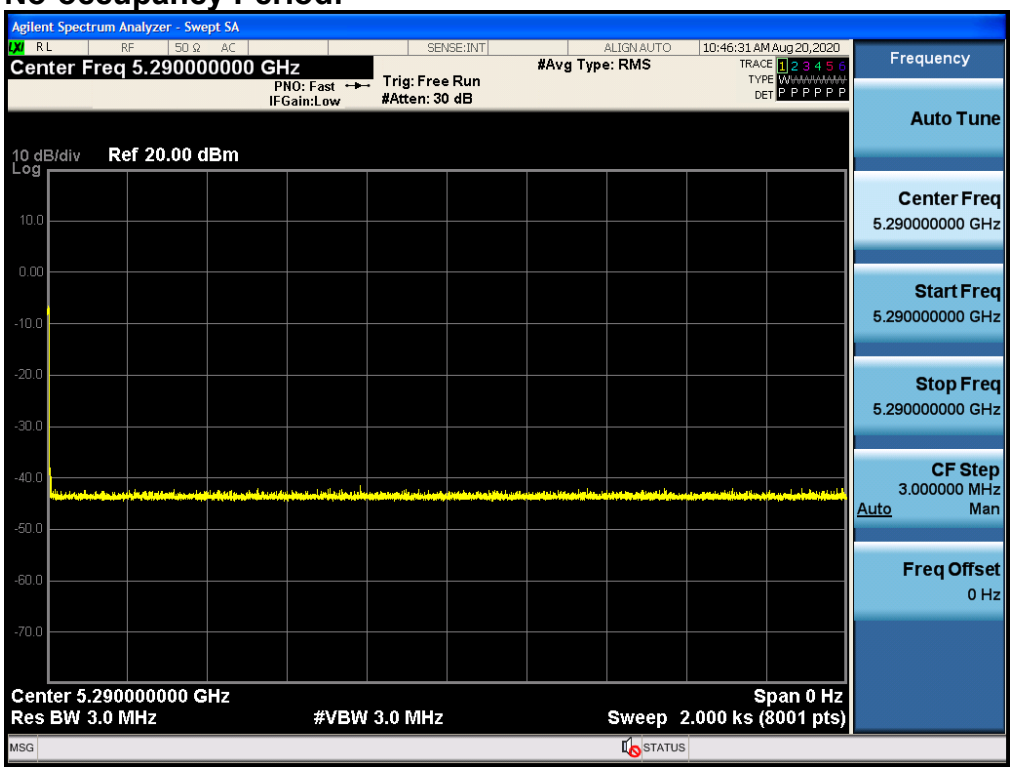
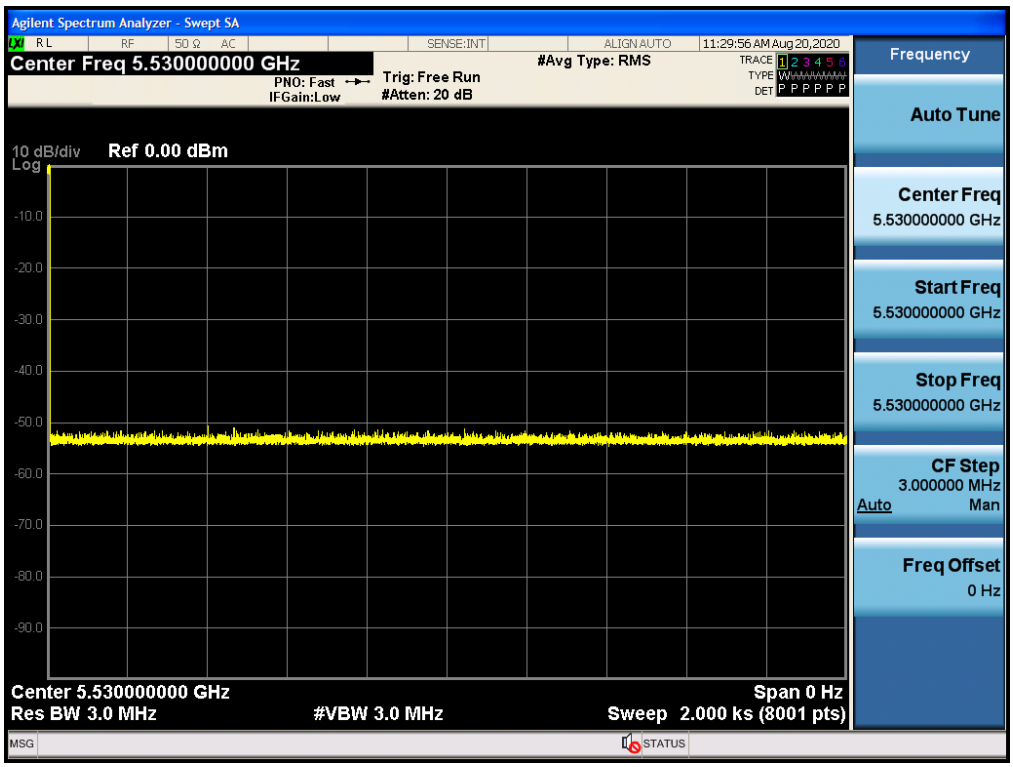
No-occupancy Period:





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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

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6 Equipment List

RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
				2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
				2019/7/14	2020/7/13
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

CE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-03	2019-12-11	2020-12-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

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RSE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2020-04-15	2021-04-14
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR

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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/70006.

The End

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