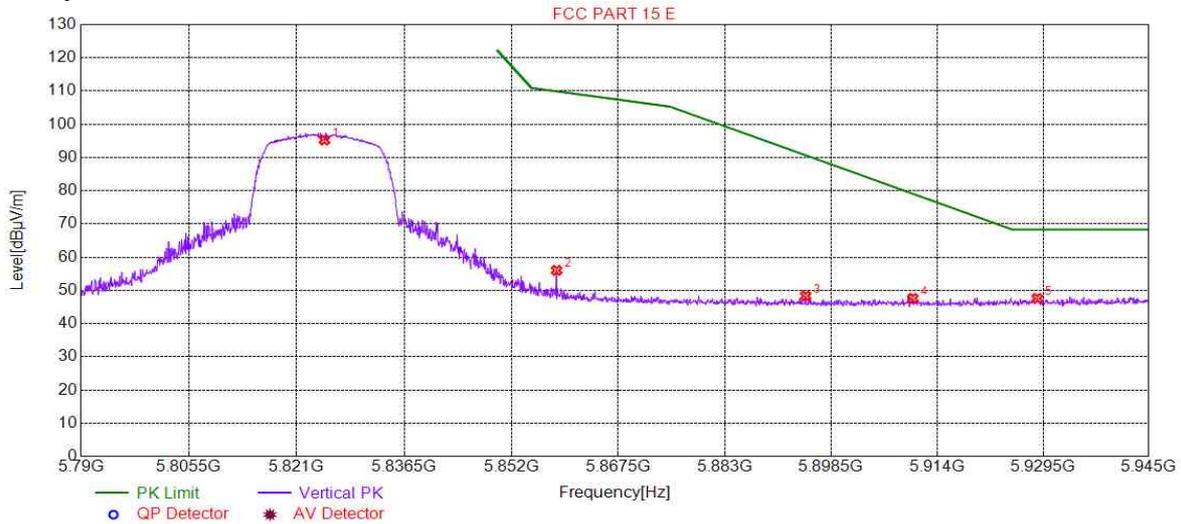




4.10.1.64 802.11AC20_Channel 165

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	150	129	Vertical
2	5858.54	56.04	17.23	109.91	53.87	150	272	Vertical
3	5894.75	48.33	17.13	90.68	42.35	150	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	150	249	Vertical

Final Data List



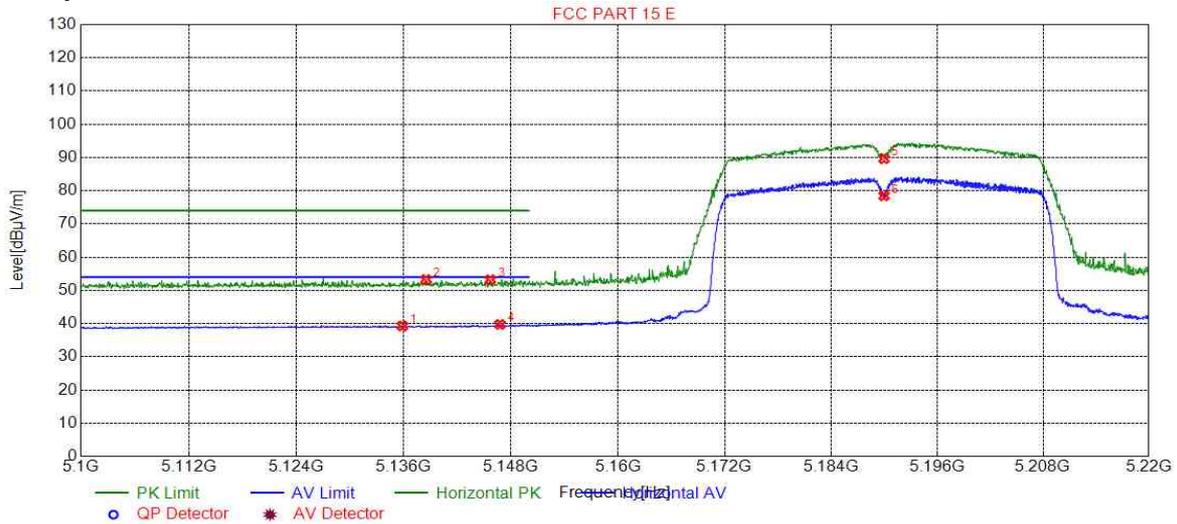
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4.10.1.65 802.11AC40_Channel 38

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	150	336	Horizontal
2	5138.47	53.27	15.42	74.00	20.73	150	74	Horizontal
3	5145.68	53.20	15.48	74.00	20.80	150	293	Horizontal
4	5146.76	39.76	15.49	54.00	14.24	150	325	Horizontal
5	5190.00	89.62	15.58	0.00	-89.62	150	336	Horizontal
6	5190.00	78.46	15.58	0.00	-78.46	150	330	Horizontal

Final Data List



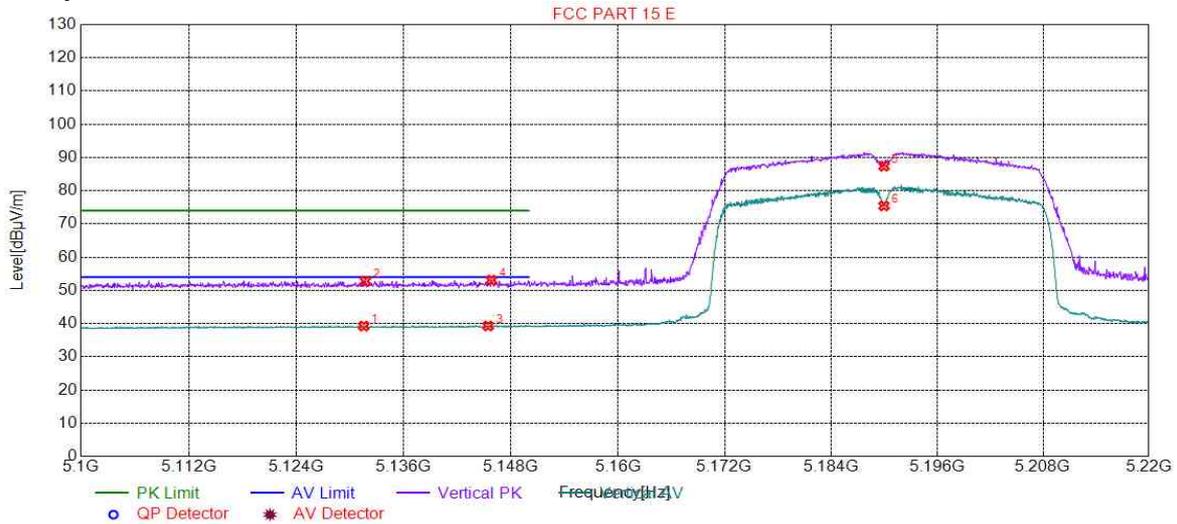
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4.10.1.66 802.11AC40_Channel 38

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	150	351	Vertical
2	5131.69	52.80	15.36	74.00	21.20	150	46	Vertical
3	5145.44	39.31	15.48	54.00	14.69	150	117	Vertical
4	5145.80	53.09	15.48	74.00	20.91	150	345	Vertical
5	5190.00	87.38	15.58	0.00	-87.38	150	292	Vertical
6	5190.00	75.43	15.58	0.00	-75.43	150	302	Vertical

Final Data List



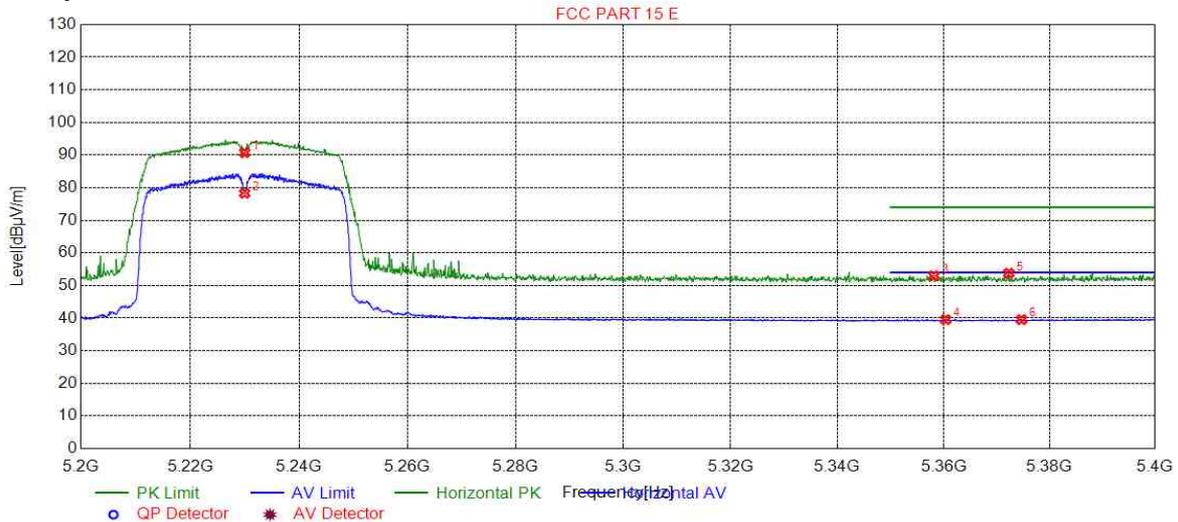
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4.10.1.67 802.11AC40_Channel 46

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	150	78	Horizontal
2	5230.00	78.28	15.51	0.00	-78.28	150	325	Horizontal
3	5358.17	53.00	15.99	74.00	21.00	150	298	Horizontal
4	5360.38	39.55	16.00	54.00	14.45	150	64	Horizontal
5	5372.28	53.80	16.08	74.00	20.20	150	51	Horizontal
6	5374.68	39.55	16.09	54.00	14.45	150	284	Horizontal

Final Data List



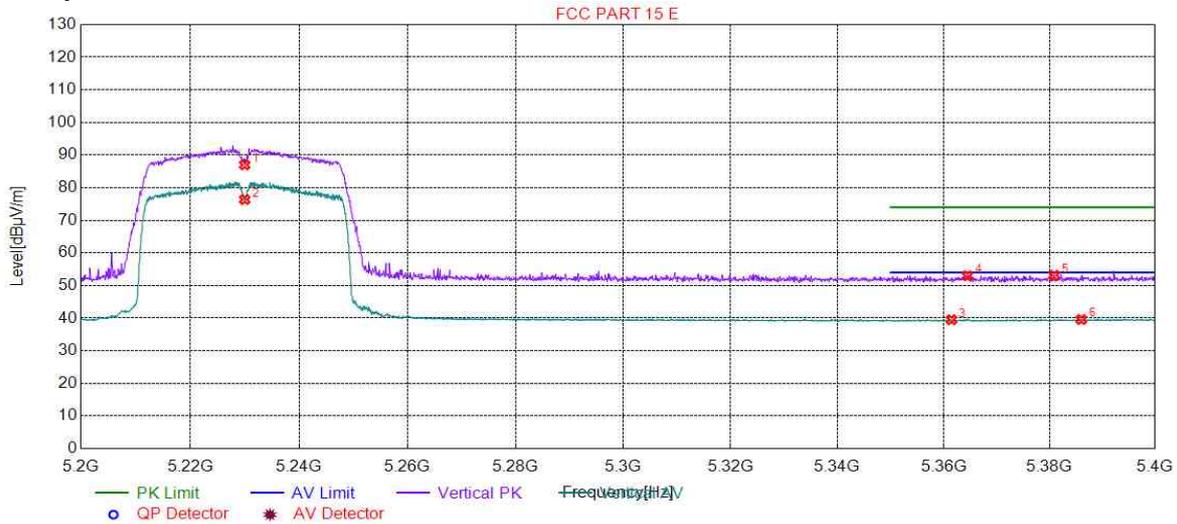
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4.10.1.68 802.11AC40_Channel 46

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	150	281	Vertical
2	5230.00	76.37	15.51	0.00	-76.37	150	288	Vertical
3	5361.48	39.52	16.01	54.00	14.48	150	360	Vertical
4	5364.48	53.01	16.03	74.00	20.99	150	186	Vertical
5	5380.89	53.12	16.13	74.00	20.88	150	76	Vertical
6	5385.99	39.59	16.16	54.00	14.41	150	158	Vertical

Final Data List



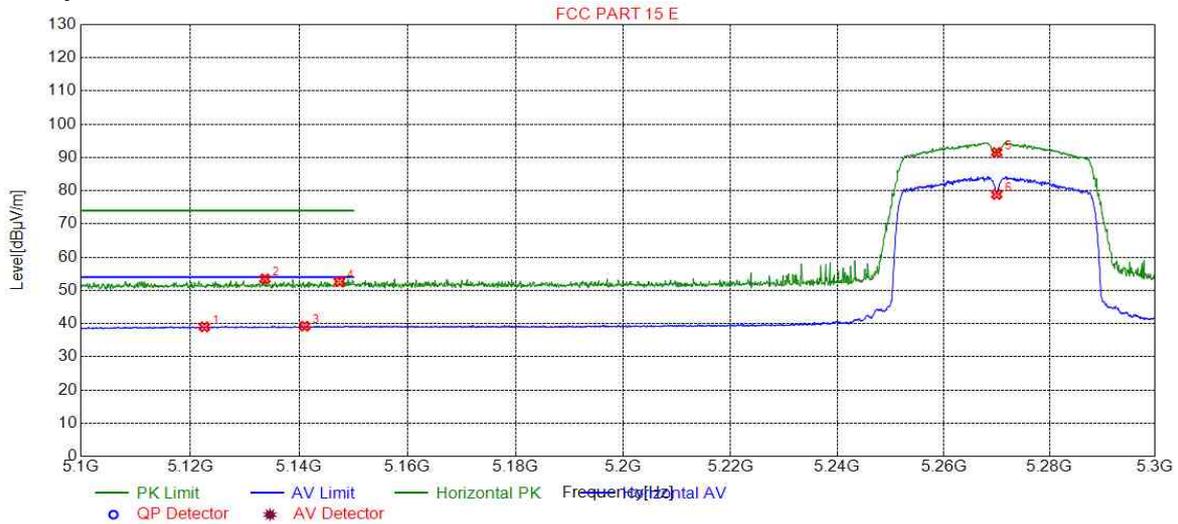
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4.10.1.69 802.11AC40_Channel 54

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	150	221	Horizontal
2	5133.71	53.46	15.38	74.00	20.54	150	277	Horizontal
3	5141.02	39.24	15.44	54.00	14.76	150	311	Horizontal
4	5147.42	52.64	15.50	74.00	21.36	150	46	Horizontal
5	5270.00	91.52	15.56	0.00	-91.52	150	338	Horizontal
6	5270.00	78.89	15.56	0.00	-78.89	150	331	Horizontal

Final Data List



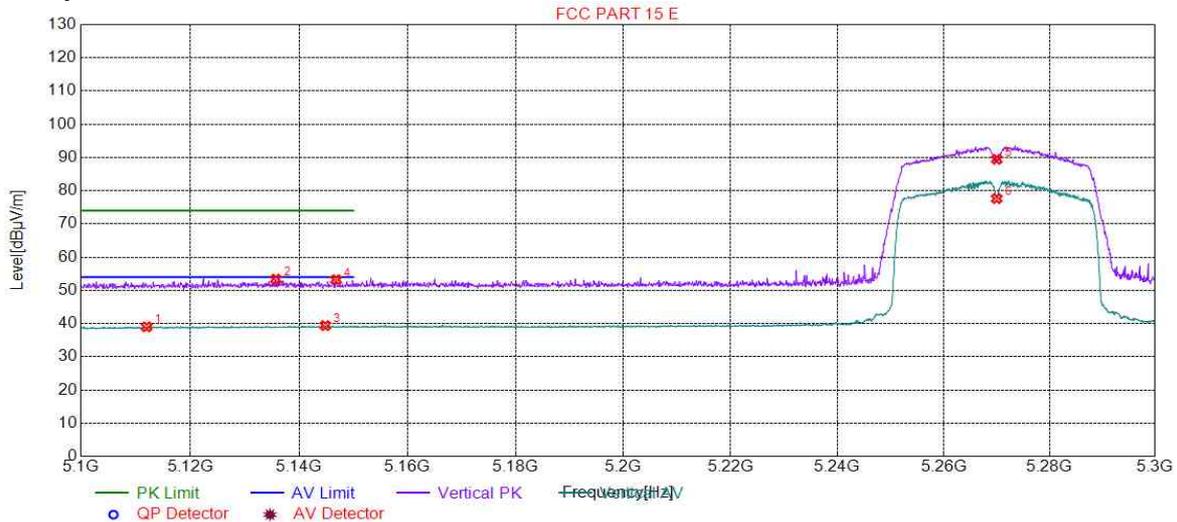
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4.10.1.70 802.11AC40_Channel 54

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	150	252	Vertical
2	5135.71	53.38	15.40	74.00	20.62	150	197	Vertical
3	5144.82	39.41	15.48	54.00	14.59	150	322	Vertical
4	5146.82	53.21	15.49	74.00	20.79	150	184	Vertical
5	5270.00	89.46	15.56	0.00	-89.46	150	287	Vertical
6	5270.00	77.64	15.56	0.00	-77.64	150	301	Vertical

Final Data List



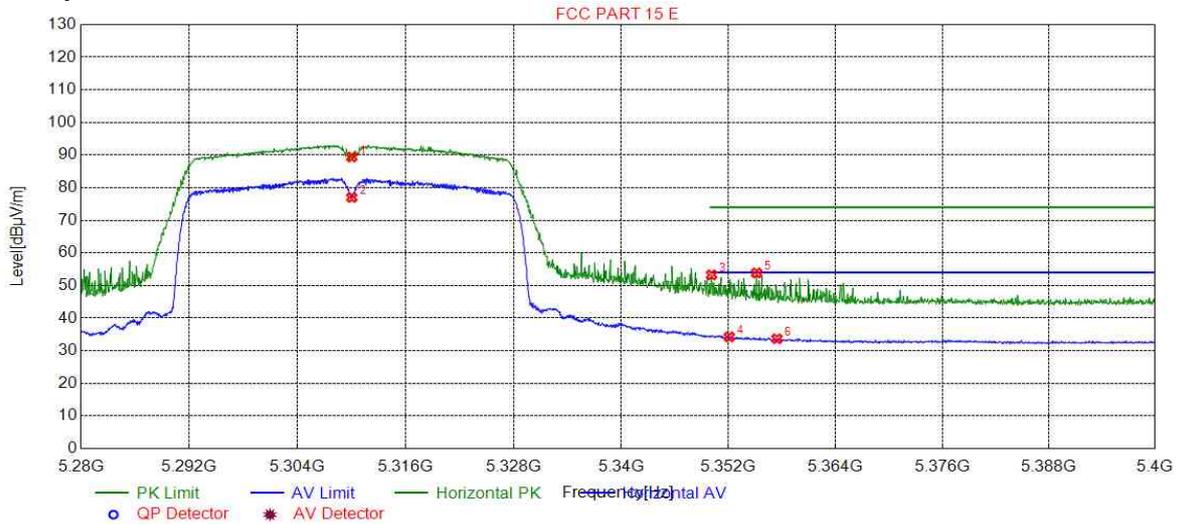
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4.10.1.71 802.11AC40_Channel 62

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	150	332	Horizontal
2	5310.00	77.01	15.75	0.00	-77.01	150	338	Horizontal
3	5350.11	53.28	15.94	74.00	20.72	150	67	Horizontal
4	5352.09	34.25	15.95	54.00	19.75	150	332	Horizontal
5	5355.15	53.85	15.97	74.00	20.15	150	197	Horizontal
6	5357.43	33.67	15.99	54.00	20.33	150	344	Horizontal

Final Data List



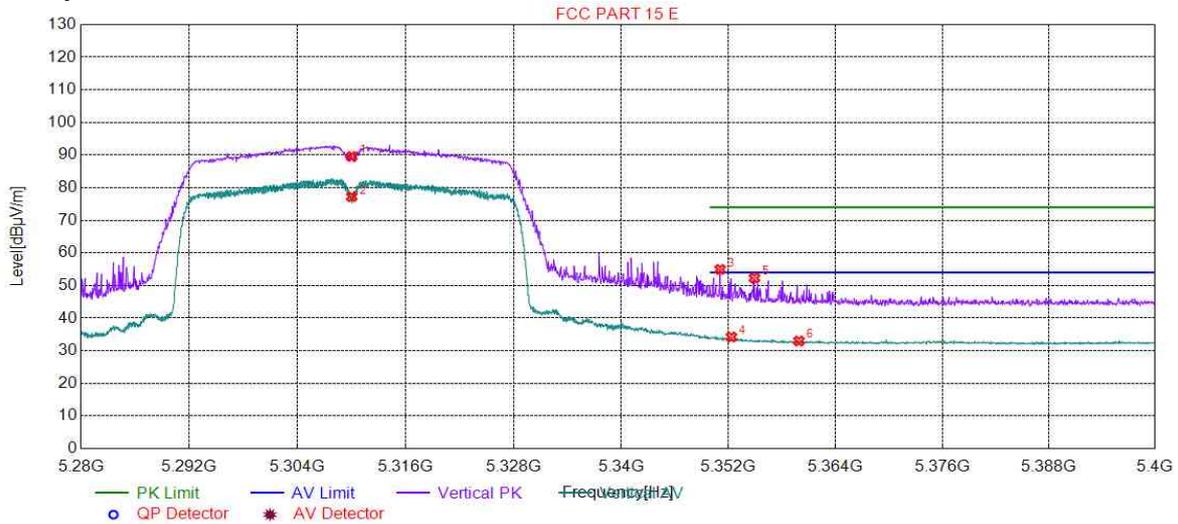
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4.10.1.72 802.11AC40_Channel 62

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	150	306	Vertical
2	5310.00	77.24	15.75	0.00	-77.24	150	306	Vertical
3	5351.07	54.95	15.95	74.00	19.05	150	293	Vertical
4	5352.33	34.23	15.95	54.00	19.77	150	306	Vertical
5	5354.91	52.32	15.97	74.00	21.68	150	280	Vertical
6	5359.90	33.00	16.00	54.00	21.00	150	306	Vertical

Final Data List



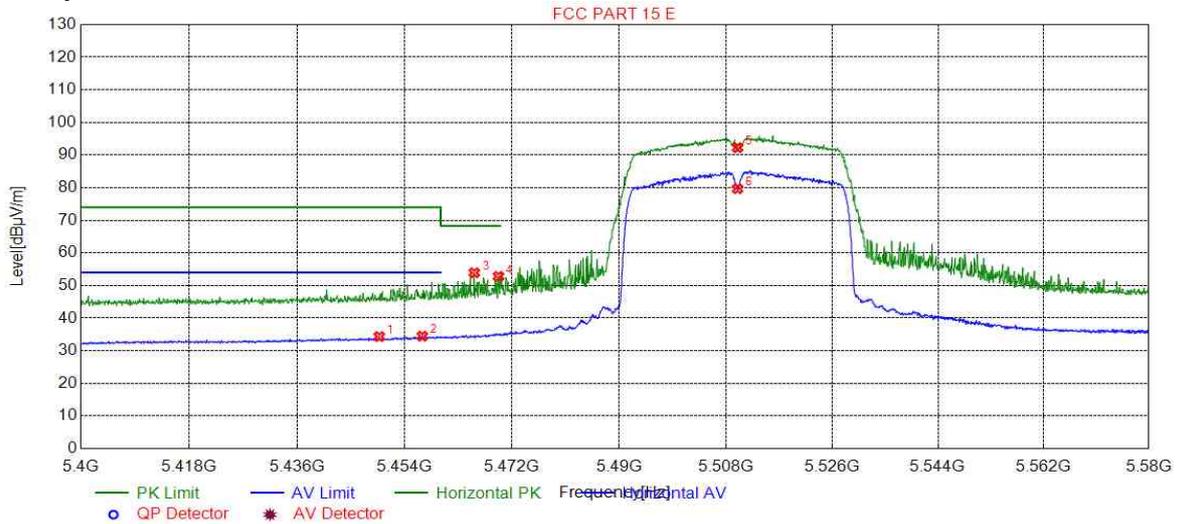
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4.10.1.73 802.11AC40_Channel 102

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	150	338	Horizontal
2	5456.90	34.48	16.25	54.00	19.52	150	154	Horizontal
3	5465.64	53.93	16.25	68.30	14.37	150	331	Horizontal
4	5469.69	52.81	16.25	68.30	15.49	150	201	Horizontal
5	5510.00	92.29	16.28	0.00	-92.29	150	154	Horizontal
6	5510.00	79.69	16.28	0.00	-79.69	150	154	Horizontal

Final Data List



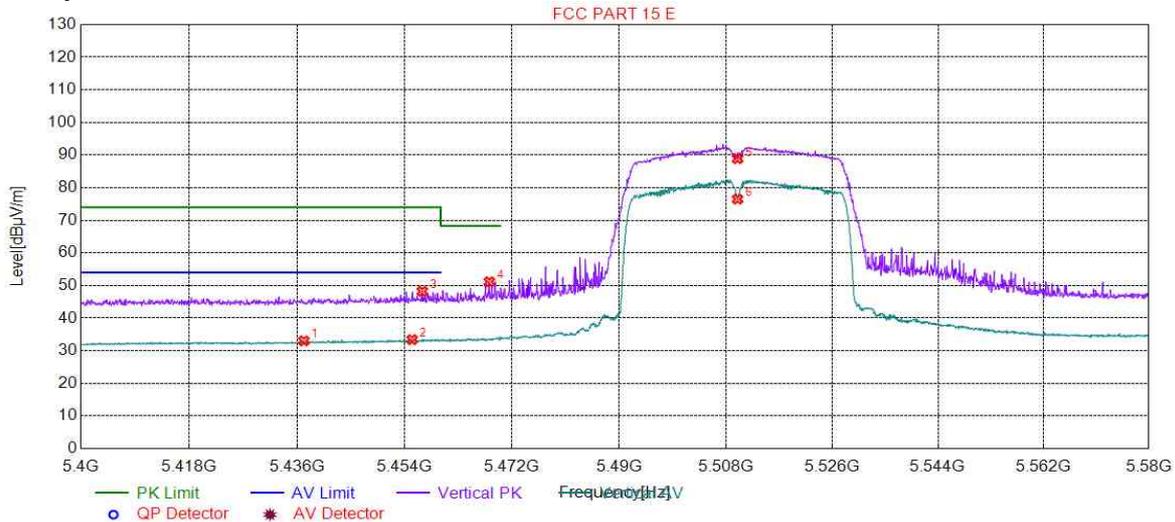
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4.10.1.74 802.11AC40_Channel 102

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	150	273	Vertical
2	5455.19	33.42	16.25	54.00	20.58	150	286	Vertical
3	5456.90	48.22	16.25	74.00	25.78	150	266	Vertical
4	5468.16	51.16	16.25	68.30	17.14	150	273	Vertical
5	5510.00	88.89	16.28	0.00	-88.89	150	293	Vertical
6	5510.00	76.48	16.28	0.00	-76.48	150	266	Vertical

Final Data List



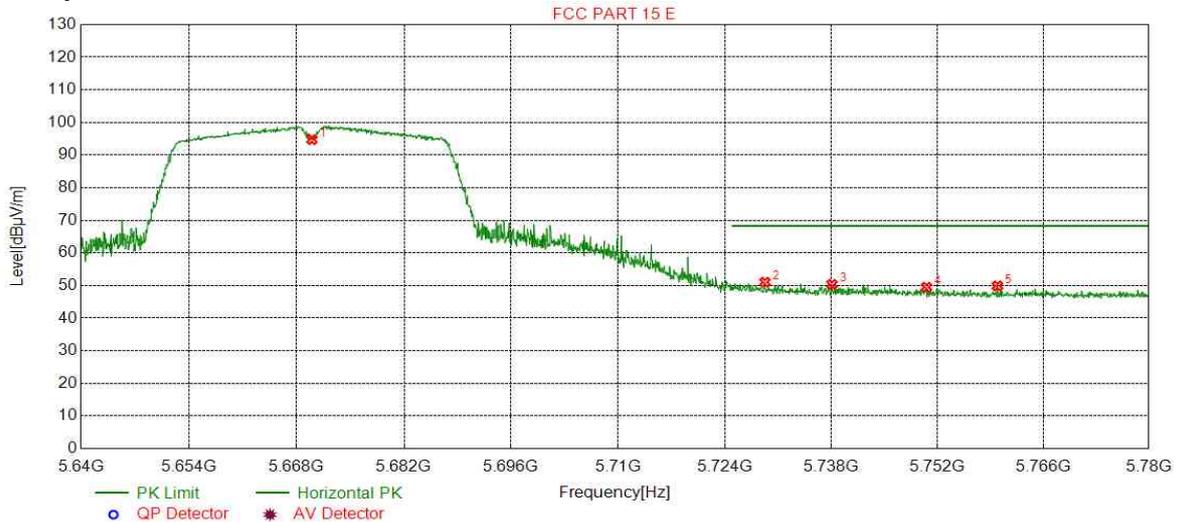
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4.10.1.75 802.11AC40_Channel 134

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	150	149	Horizontal
2	5729.29	51.03	16.99	68.30	17.27	150	199	Horizontal
3	5738.11	50.36	17.04	68.30	17.94	150	153	Horizontal
4	5750.58	49.49	17.12	68.30	18.81	150	149	Horizontal
5	5759.97	49.88	17.13	68.30	18.42	150	149	Horizontal

Final Data List



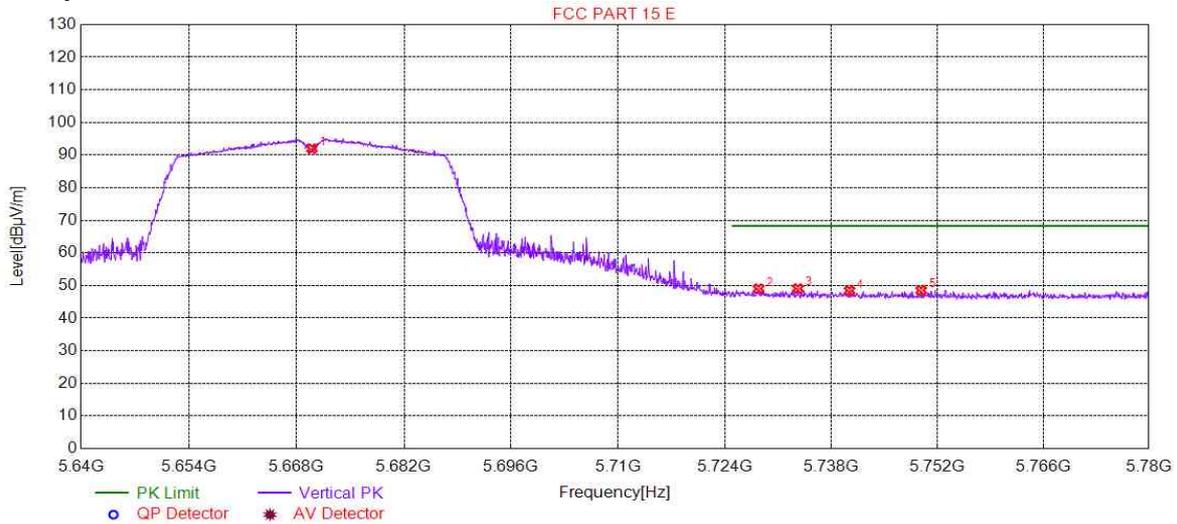
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4.10.1.76 802.11AC40_Channel 134

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	150	129	Vertical
2	5728.45	49.03	16.98	68.30	19.27	150	106	Vertical
3	5733.63	49.08	17.02	68.30	19.22	150	120	Vertical
4	5740.43	48.43	17.06	68.30	19.87	150	254	Vertical
5	5749.88	48.52	17.12	68.30	19.78	150	120	Vertical

Final Data List



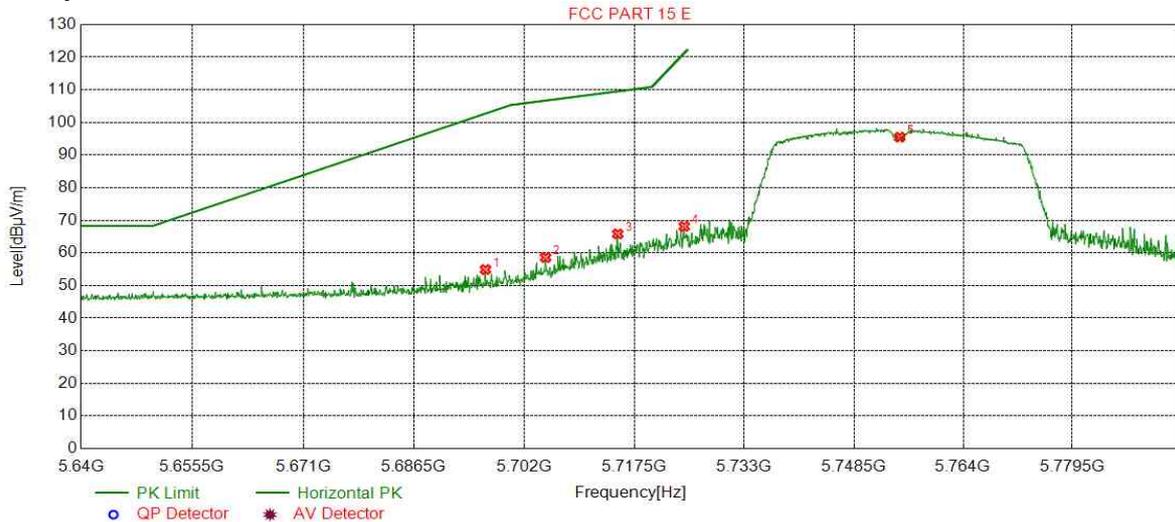
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4.10.1.77 802.11AC40_Channel 151

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	150	149	Horizontal
2	5704.97	58.60	16.83	106.69	48.09	150	208	Horizontal
3	5715.13	65.83	16.90	109.54	43.71	150	158	Horizontal
4	5724.51	68.11	16.96	121.20	53.09	150	204	Horizontal
5	5755.00	95.49	17.13	0.00	-95.49	150	158	Horizontal

Final Data List

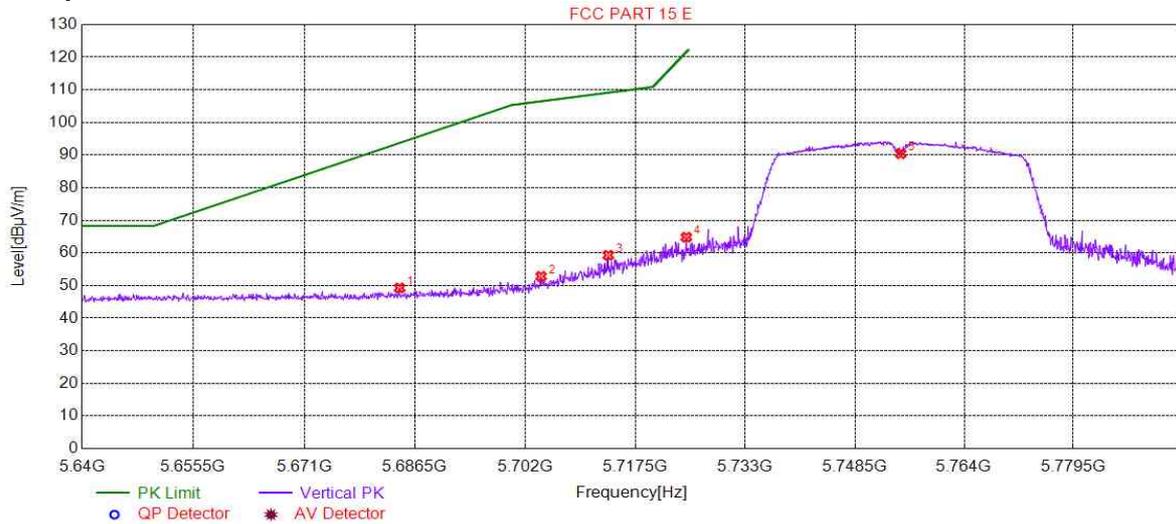


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4.10.1.78 802.11AC40_Channel 151

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	150	275	Vertical
2	5704.20	52.81	16.83	106.48	53.67	150	111	Vertical
3	5713.66	59.30	16.89	109.13	49.83	150	107	Vertical
4	5724.67	64.83	16.96	121.55	56.72	150	88	Vertical
5	5755.00	90.43	17.13	0.00	-90.43	150	280	Vertical

Final Data List



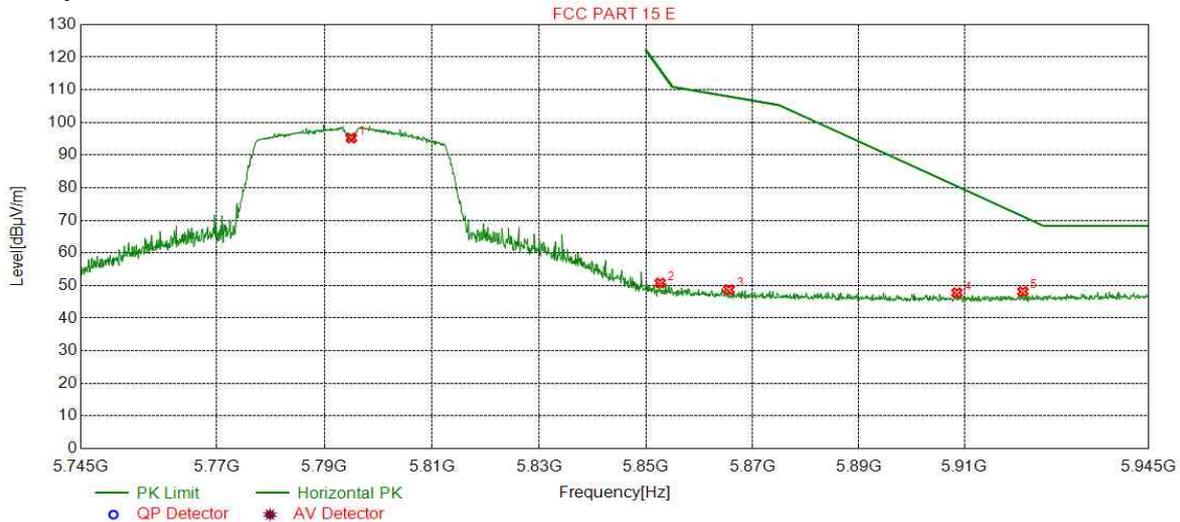
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4.10.1.79 802.11AC40_Channel 159

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	150	157	Horizontal
2	5852.65	50.78	17.25	116.25	65.47	150	208	Horizontal
3	5865.56	48.76	17.21	107.94	59.18	150	198	Horizontal
4	5908.58	47.78	17.24	80.45	32.67	150	79	Horizontal
5	5921.08	48.16	17.43	71.19	23.03	150	84	Horizontal

Final Data List



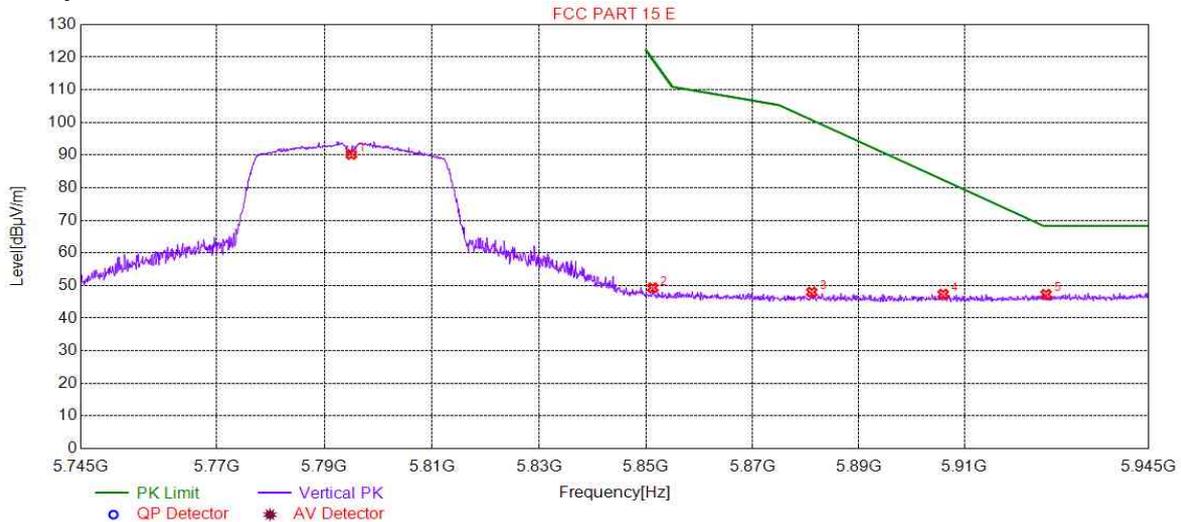
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4.10.1.80 802.11AC40_Channel 159

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	150	329	Vertical
2	5851.25	49.32	17.26	119.44	70.12	150	256	Vertical
3	5881.16	47.97	17.17	100.74	52.77	150	16	Vertical
4	5905.98	47.35	17.20	82.37	35.02	150	353	Vertical
5	5925.49	47.32	17.50	68.30	20.98	150	338	Vertical

Final Data List



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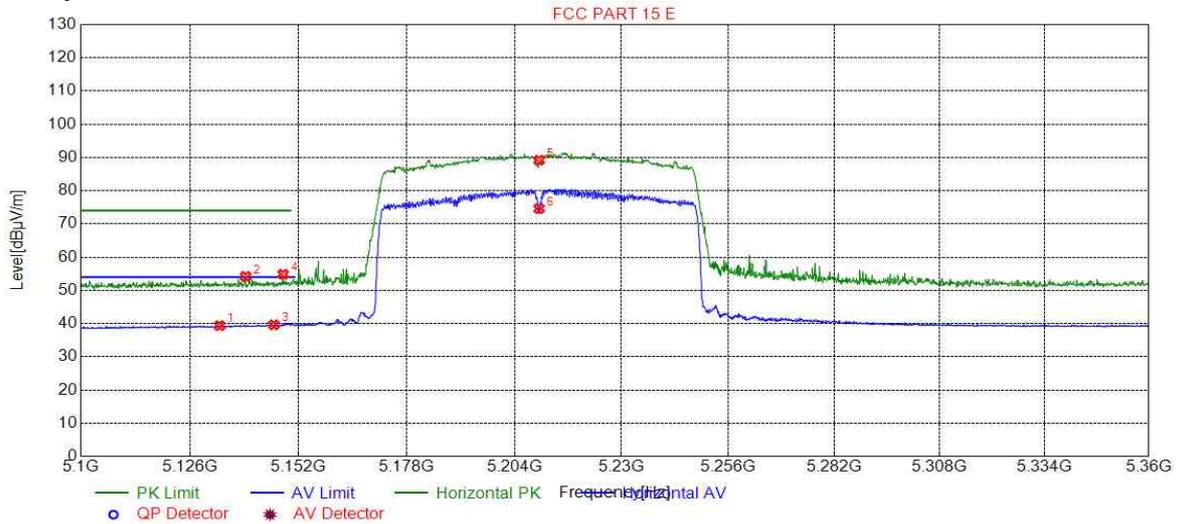
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4.10.1.81 802.11AC80_Channel 42

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	150	324	Horizontal
2	5139.27	54.22	15.43	74.00	19.78	150	90	Horizontal
3	5146.04	39.65	15.49	54.00	14.35	150	331	Horizontal
4	5148.25	54.85	15.50	74.00	19.15	150	151	Horizontal
5	5210.00	89.18	15.56	0.00	-89.18	150	324	Horizontal
6	5210.00	74.63	15.56	0.00	-74.63	150	76	Horizontal

Final Data List



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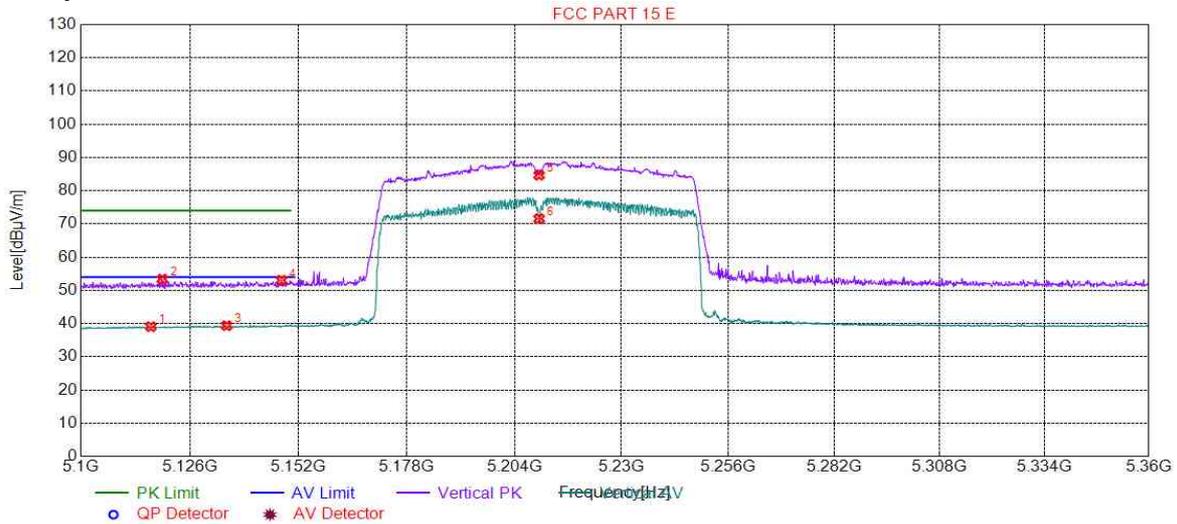
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4.10.1.82 802.11AC80_Channel 42

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	150	247	Vertical
2	5119.37	53.40	15.26	74.00	20.60	150	336	Vertical
3	5134.72	39.39	15.39	54.00	14.61	150	130	Vertical
4	5147.86	53.05	15.50	74.00	20.95	150	329	Vertical
5	5210.00	84.68	15.56	0.00	-84.68	150	144	Vertical
6	5210.00	71.57	15.56	0.00	-71.57	150	124	Vertical

Final Data List



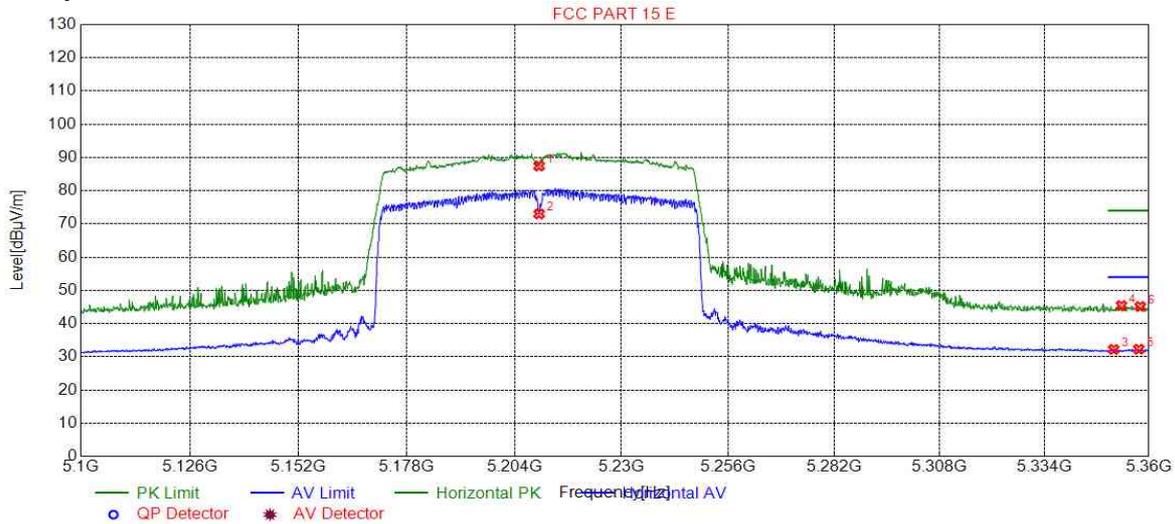
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4.10.1.83 802.11AC80_Channel 42

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	150	81	Horizontal
2	5210.00	73.03	15.56	0.00	-73.03	150	88	Horizontal
3	5351.28	32.25	15.95	54.00	21.75	150	331	Horizontal
4	5353.23	45.44	15.96	74.00	28.56	150	60	Horizontal
5	5357.52	32.31	15.99	54.00	21.69	150	338	Horizontal
6	5357.91	45.16	15.99	74.00	28.84	150	6	Horizontal

Final Data List



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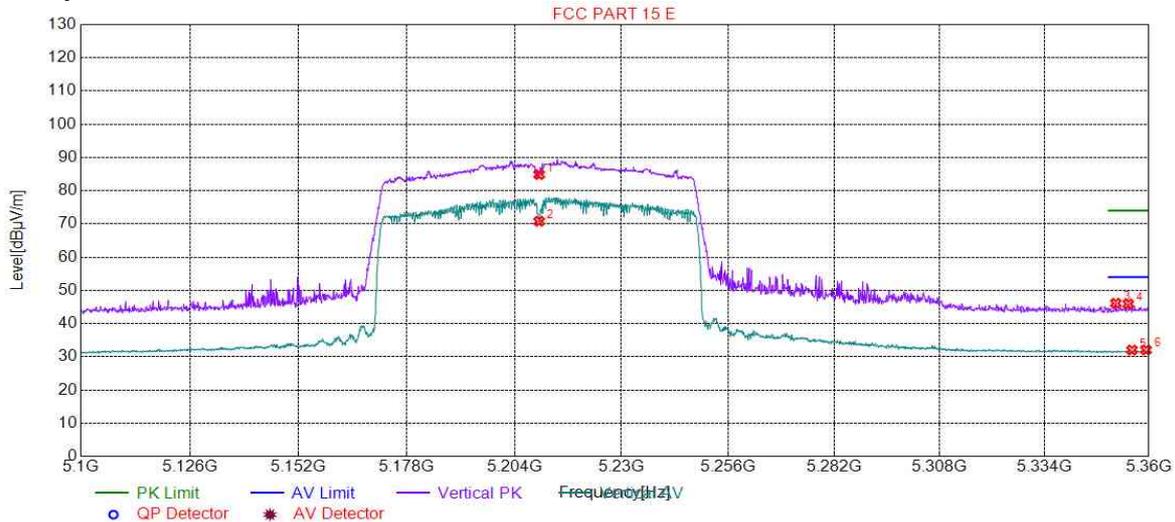
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4.10.1.84 802.11AC80_Channel 42

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	150	287	Vertical
2	5210.00	70.82	15.56	0.00	-70.82	150	287	Vertical
3	5351.80	46.14	15.95	74.00	27.86	150	214	Vertical
4	5354.92	45.94	15.97	74.00	28.06	150	267	Vertical
5	5355.83	32.04	15.98	54.00	21.96	150	274	Vertical
6	5359.34	32.08	16.00	54.00	21.92	150	138	Vertical

Final Data List



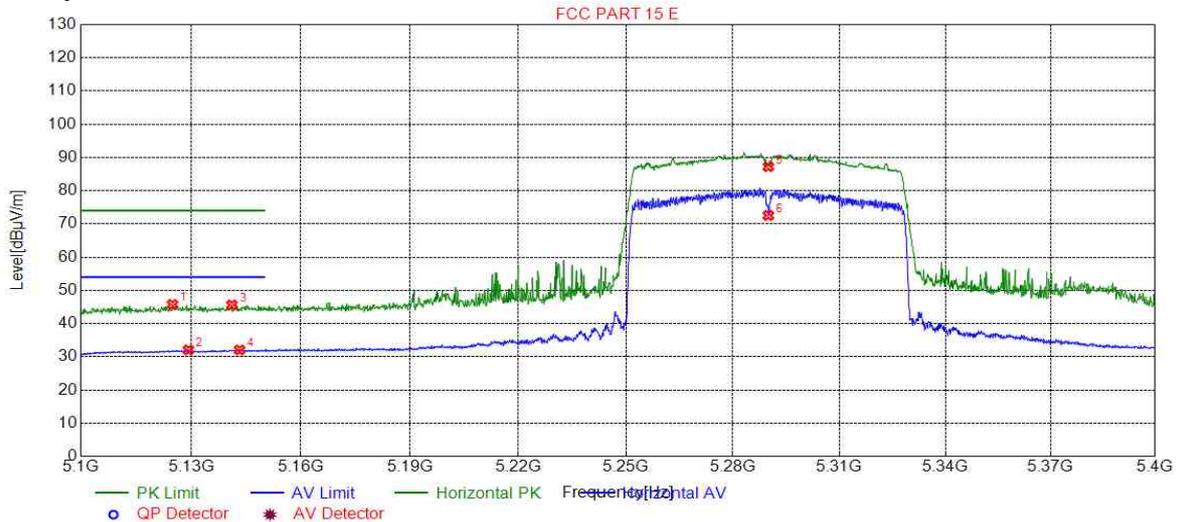
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4.10.1.85 802.11AC80_Channel 58

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	150	310	Horizontal
2	5129.26	32.10	15.34	54.00	21.90	150	64	Horizontal
3	5141.12	45.65	15.44	74.00	28.35	150	146	Horizontal
4	5143.22	32.09	15.46	54.00	21.91	150	331	Horizontal
5	5290.00	87.22	15.65	0.00	-87.22	150	338	Horizontal
6	5290.00	72.57	15.65	0.00	-72.57	150	70	Horizontal

Final Data List



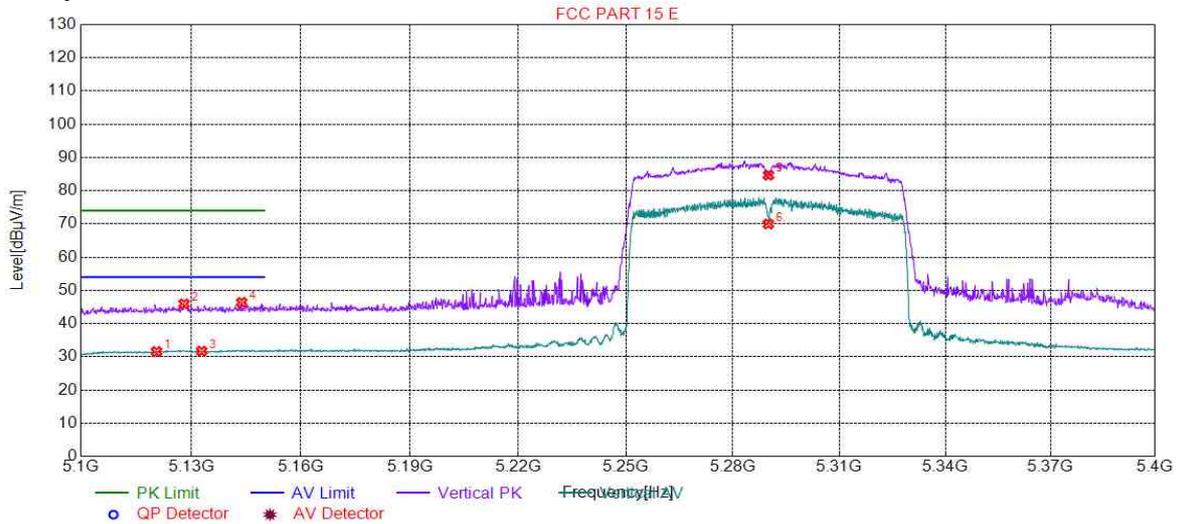
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4.10.1.86 802.11AC80_Channel 58

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	150	286	Vertical
2	5128.06	45.94	15.33	74.00	28.06	150	16	Vertical
3	5132.86	31.72	15.37	54.00	22.28	150	294	Vertical
4	5143.82	46.39	15.47	74.00	27.61	150	211	Vertical
5	5290.00	84.68	15.65	0.00	-84.68	150	273	Vertical
6	5290.00	69.99	15.65	0.00	-69.99	150	136	Vertical

Final Data List



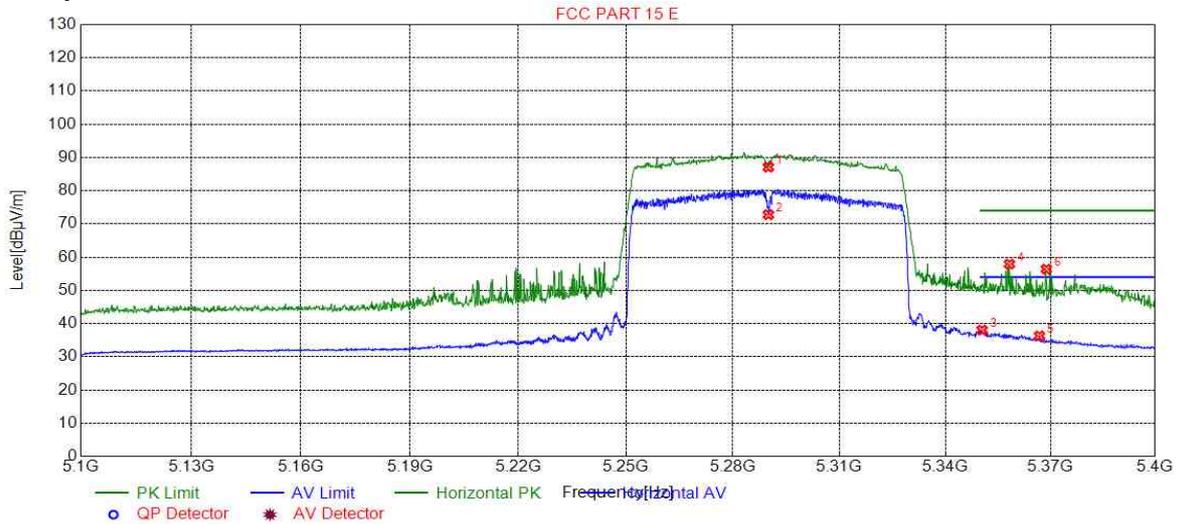
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4.10.1.87 802.11AC80_Channel 58

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	150	64	Horizontal
2	5290.00	72.79	15.65	0.00	-72.79	150	338	Horizontal
3	5350.47	38.06	15.94	54.00	15.94	150	331	Horizontal
4	5358.27	57.94	15.99	74.00	16.06	150	146	Horizontal
5	5366.83	36.33	16.04	54.00	17.67	150	331	Horizontal
6	5368.78	56.41	16.06	74.00	17.59	150	338	Horizontal

Final Data List



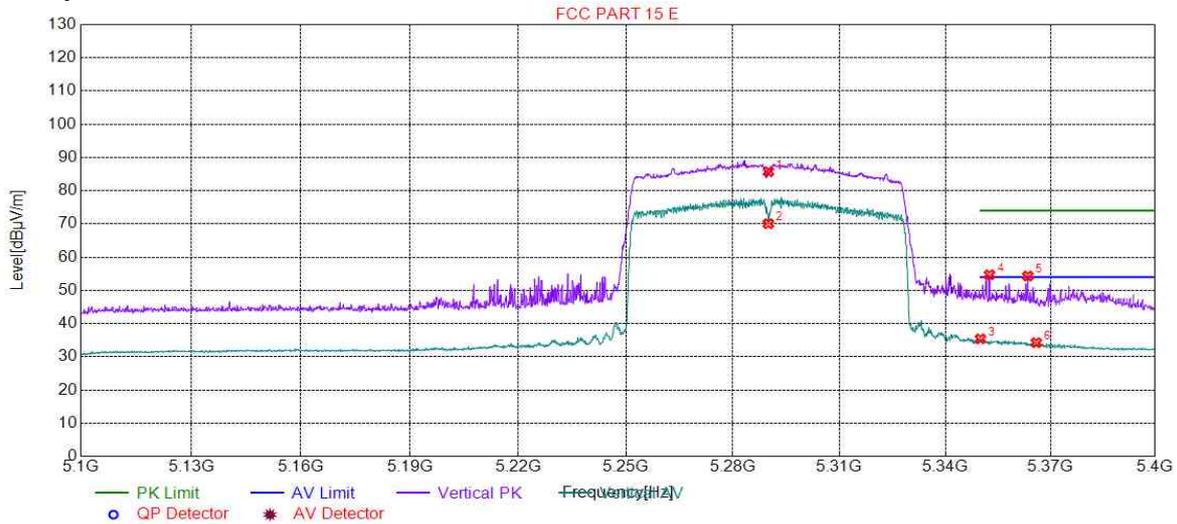
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4.10.1.88 802.11AC80_Channel 58

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	150	273	Vertical
2	5290.00	70.07	15.65	0.00	-70.07	150	300	Vertical
3	5350.02	35.41	15.94	54.00	18.59	150	280	Vertical
4	5352.57	54.71	15.96	74.00	19.29	150	293	Vertical
5	5363.53	54.33	16.02	74.00	19.67	150	273	Vertical
6	5365.93	34.27	16.04	54.00	19.73	150	287	Vertical

Final Data List



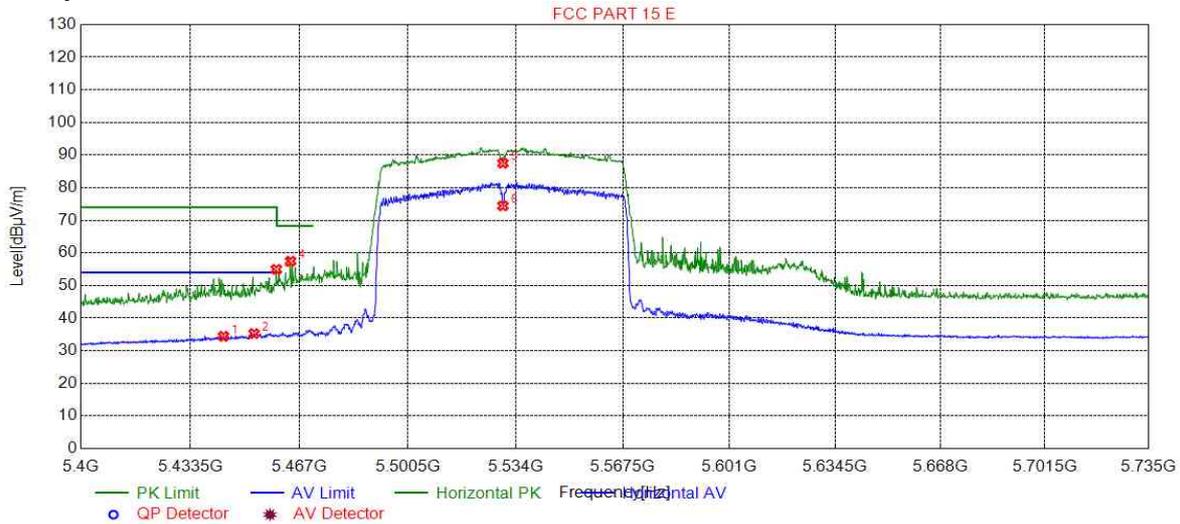
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4.10.1.89 802.11AC80_Channel 106

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	150	344	Horizontal
2	5452.95	35.27	16.25	54.00	18.73	150	344	Horizontal
3	5459.82	54.95	16.25	74.00	19.05	150	211	Horizontal
4	5464.18	57.48	16.25	68.30	10.82	150	338	Horizontal
5	5530.00	87.51	16.35	0.00	-87.51	150	344	Horizontal
6	5530.00	74.44	16.35	0.00	-74.44	150	0	Horizontal

Final Data List



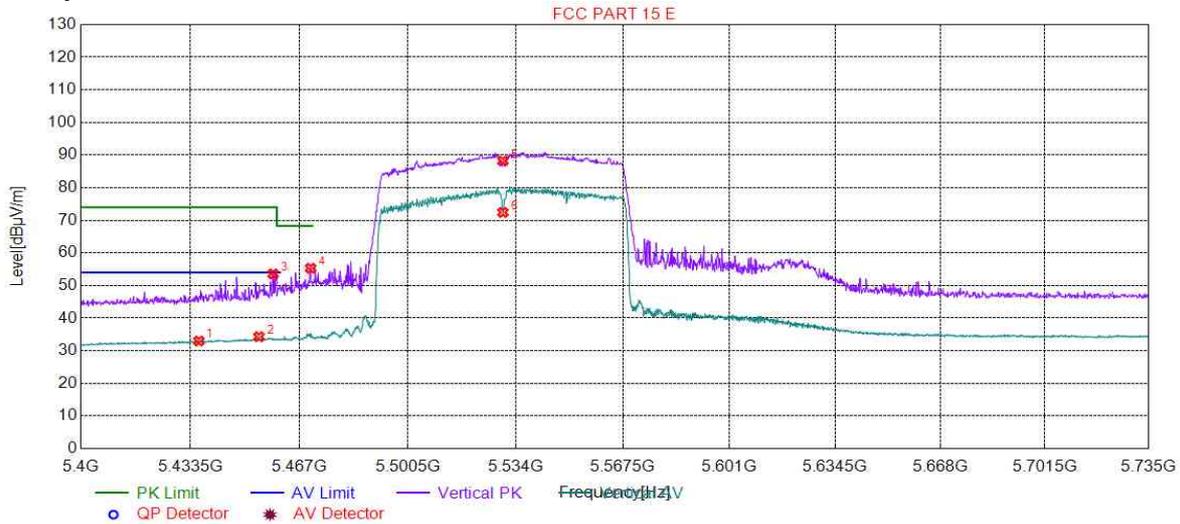
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4.10.1.90 802.11AC80_Channel 106

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	150	123	Vertical
2	5454.46	34.31	16.25	54.00	19.69	150	137	Vertical
3	5458.82	53.59	16.25	74.00	20.41	150	278	Vertical
4	5470.38	55.32	16.25	68.30	12.98	150	137	Vertical
5	5530.00	88.20	16.35	0.00	-88.20	150	123	Vertical
6	5530.00	72.41	16.35	0.00	-72.41	150	299	Vertical

Final Data List



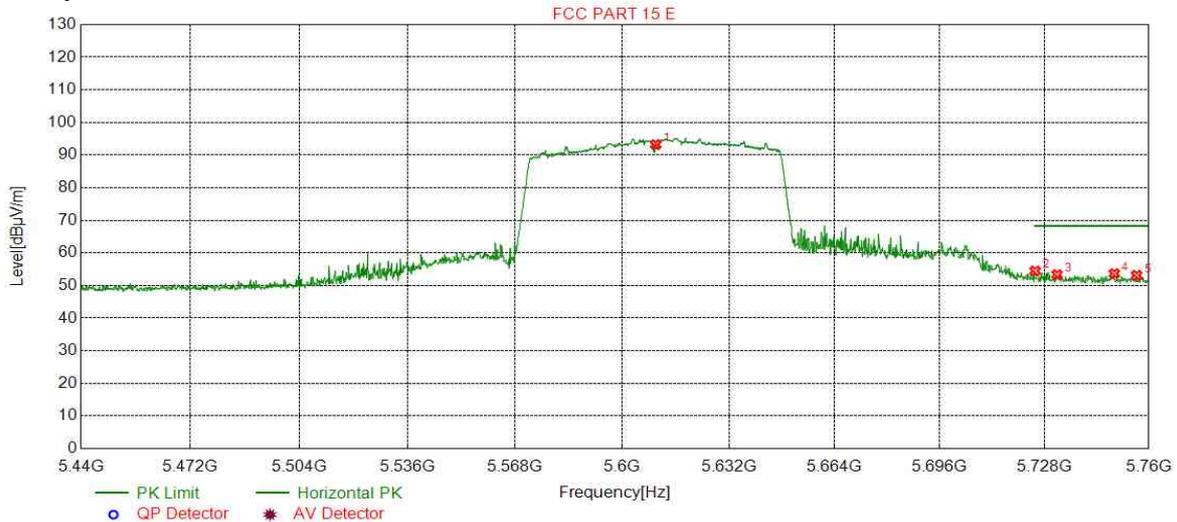
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4.10.1.91 802.11AC80_Channel 122

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	150	213	Horizontal
2	5725.10	54.46	16.96	68.30	13.84	150	93	Horizontal
3	5731.82	53.35	17.00	68.30	14.95	150	167	Horizontal
4	5749.43	53.67	17.12	68.30	14.63	150	167	Horizontal
5	5756.31	53.14	17.13	68.30	15.16	150	16	Horizontal

Final Data List



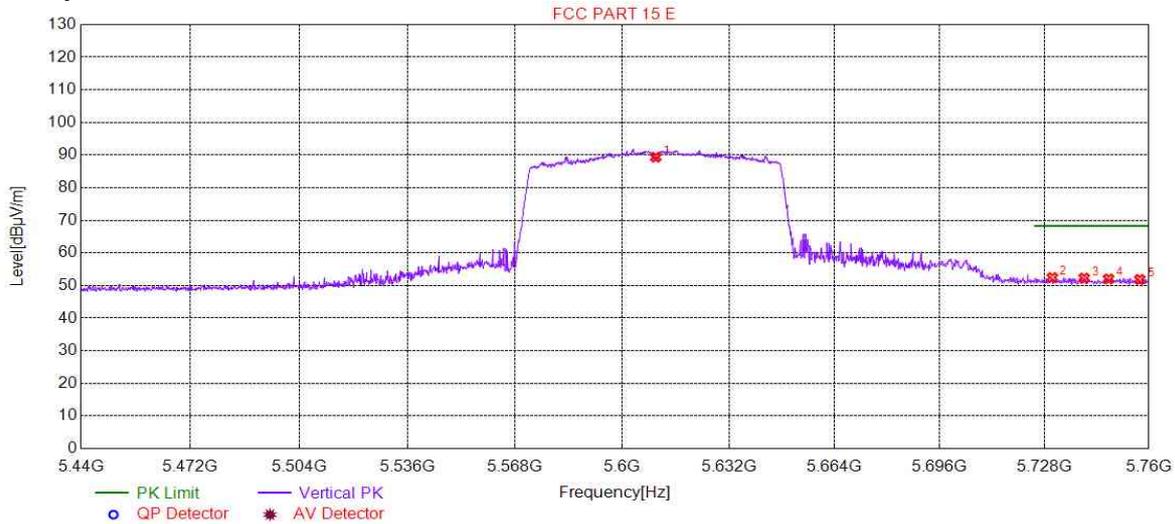
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4.10.1.92 802.11AC80_Channel 122

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	150	277	Vertical
2	5730.38	52.46	16.99	68.30	15.84	150	40	Vertical
3	5740.15	52.31	17.06	68.30	15.99	150	326	Vertical
4	5747.67	52.05	17.11	68.30	16.25	150	147	Vertical
5	5757.27	51.88	17.13	68.30	16.42	150	235	Vertical

Final Data List



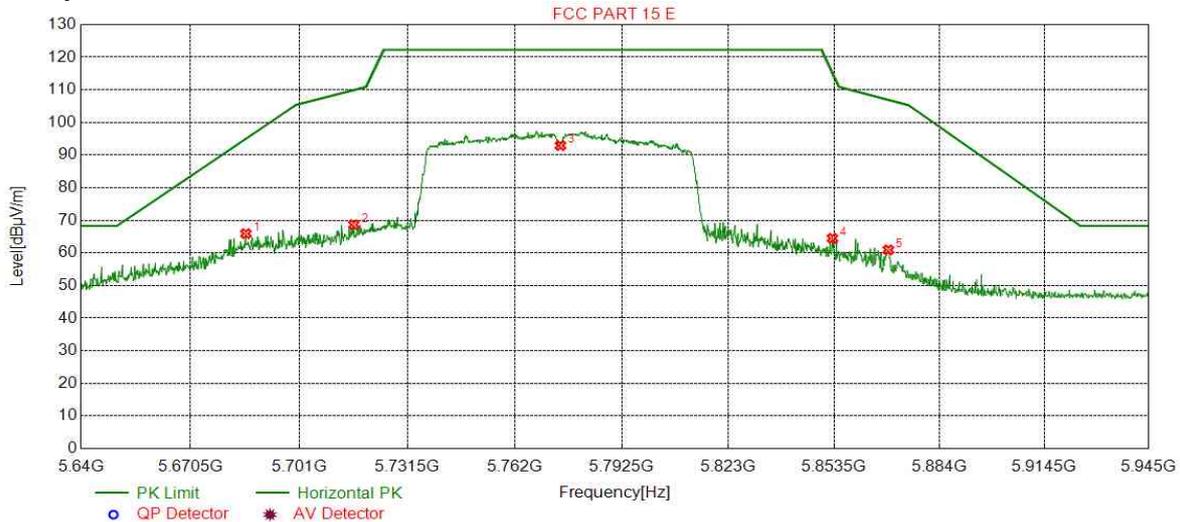
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4.10.1.93 802.11AC80_Channel 155

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	150	198	Horizontal
2	5716.44	68.65	16.91	109.90	41.25	150	207	Horizontal
3	5775.00	92.92	17.16	122.30	29.38	150	166	Horizontal
4	5852.99	64.48	17.25	115.47	50.99	150	162	Horizontal
5	5869.16	60.94	17.20	106.93	45.99	150	162	Horizontal

Final Data List



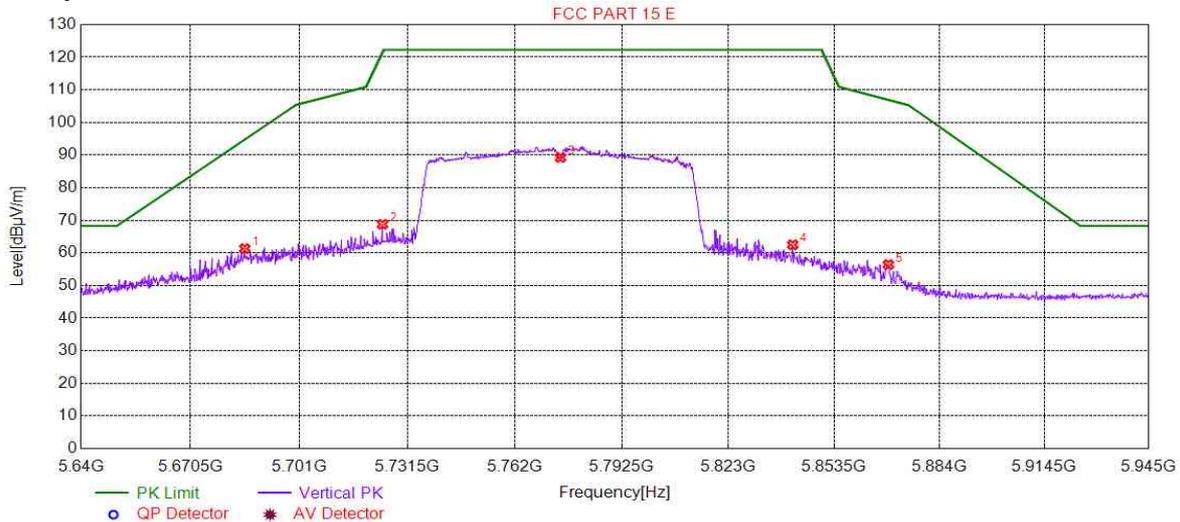
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4.10.1.94 802.11AC80_Channel 155

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	150	134	Vertical
2	5724.52	68.78	16.96	121.22	52.44	150	254	Vertical
3	5775.00	89.25	17.16	122.30	33.05	150	258	Vertical
4	5841.55	62.51	17.25	122.30	59.79	150	101	Vertical
5	5869.16	56.43	17.20	106.93	50.50	150	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
<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.
Note 3: 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
<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.

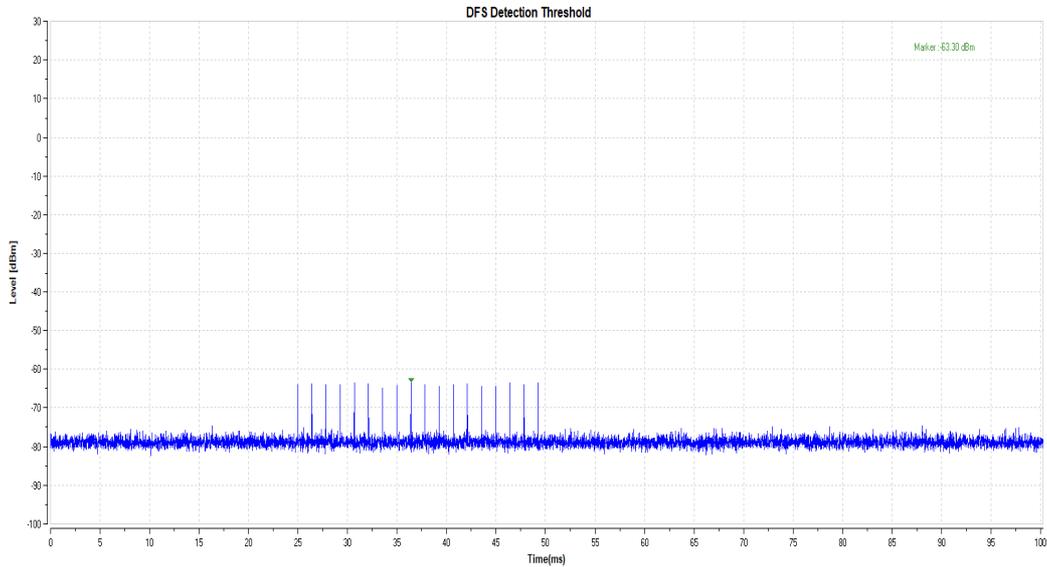


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4.12.4 Test plots
4.12.4.1 Radar Waveform Calibration Result
Radar Type 0



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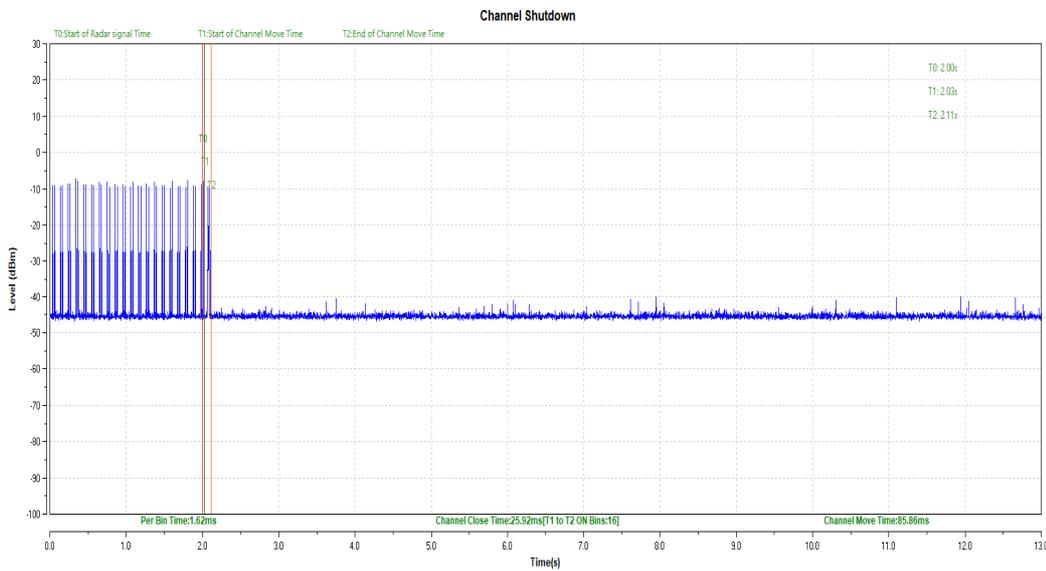


4.12.5 Test Data:

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



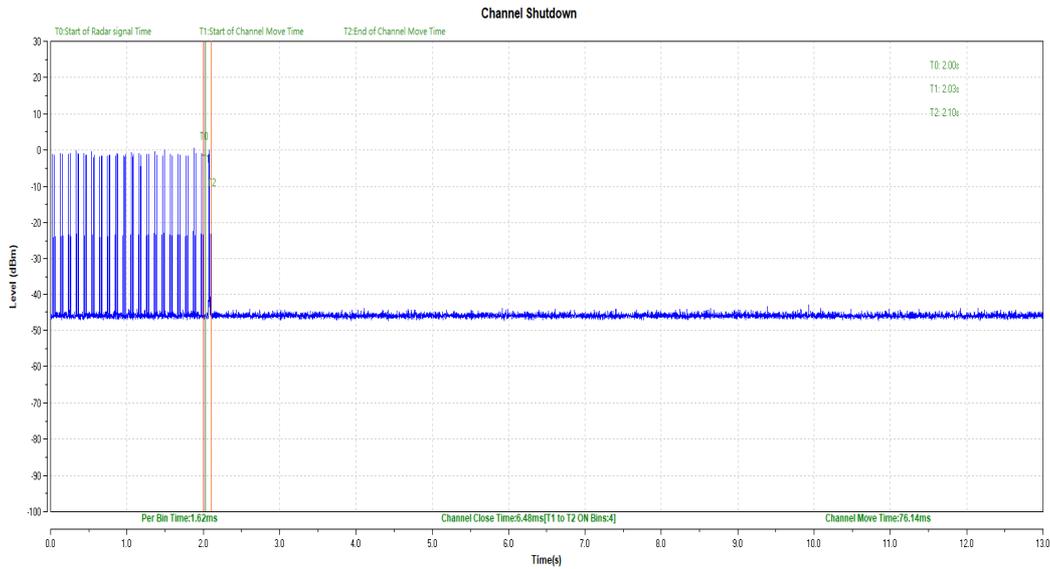
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4.12.5.1.2 Test Bandwidth/Channel= 80MHz / 5530MHz

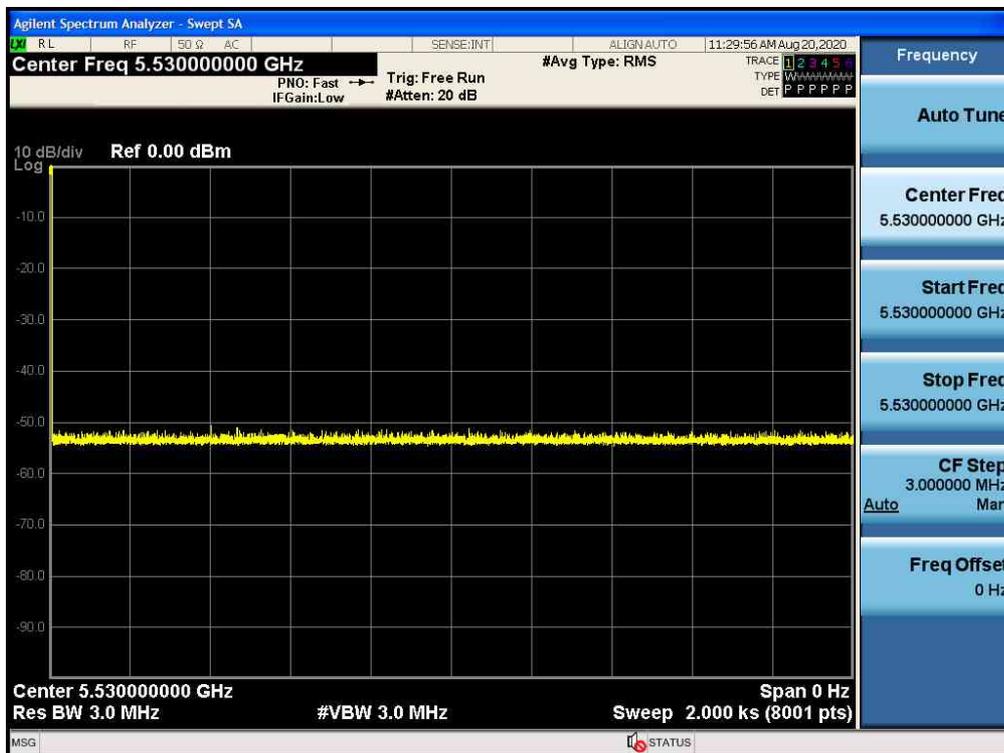
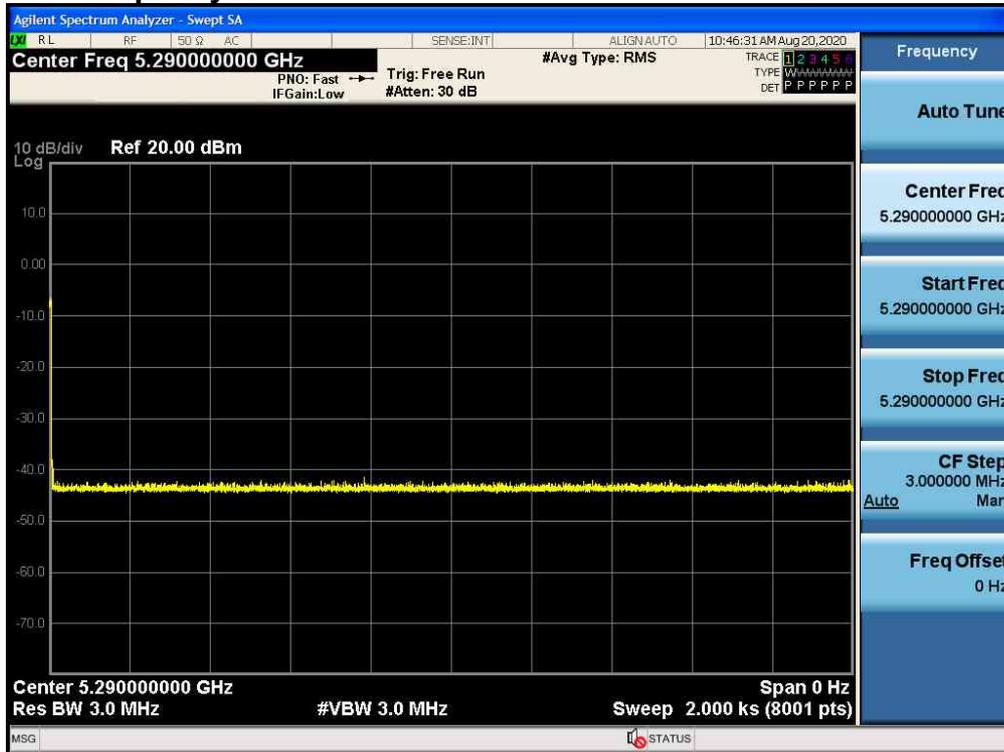


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No-occupancy Period:





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

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	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±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	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/3/2	2021/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2020/2/11	2021/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2020/2/11	2021/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

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	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A



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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	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1

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	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
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	2020/7/14	2021/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/7/14	2021/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2019/10/20	2020/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020/3/2	2021/3/1
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	2020/6/12	2021/6/11



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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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