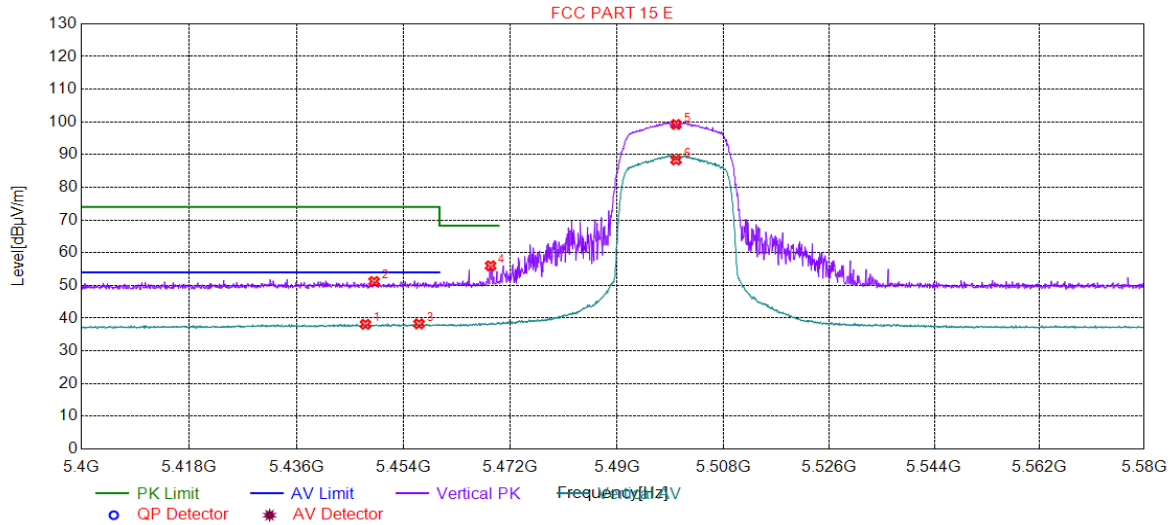


4.10.1.67 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.543	38.12	54.00	15.88	150	59	Vertical
2	5448.984	51.24	74.00	22.76	150	335	Vertical
3	5456.548	38.27	54.00	15.73	150	65	Vertical
4	5468.614	56.04	68.30	12.26	150	175	Vertical
5	5500.000	99.24	0.00	-99.24	150	324	Vertical
6	5500.000	88.40	0.00	-88.40	150	70	Vertical

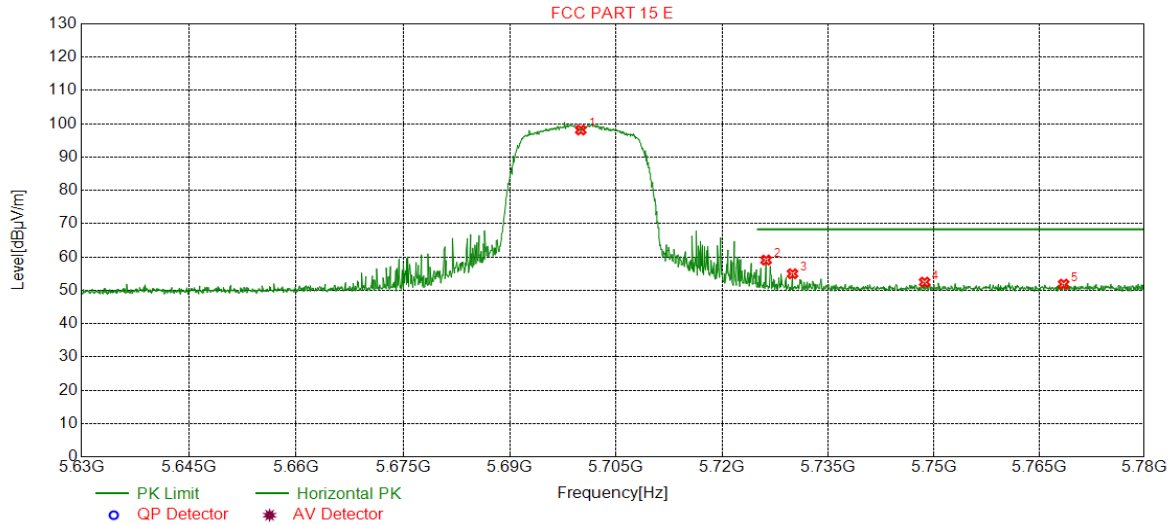
Final Data List



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4.10.1.68 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	98.13	0.00	-98.13	150	83	Horizontal
2	5726.198	59.09	68.30	9.21	150	97	Horizontal
3	5729.950	54.99	68.30	13.31	150	16	Horizontal
4	5748.709	52.47	68.30	15.83	150	16	Horizontal
5	5768.519	51.86	68.30	16.44	150	70	Horizontal

Final Data List

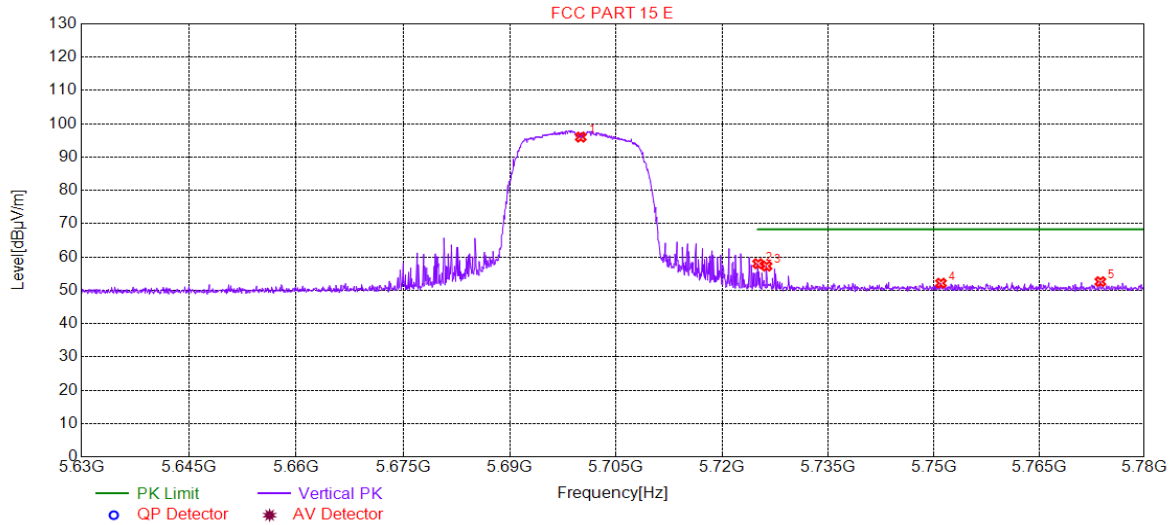


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4.10.1.69 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	96.00	0.00	-96.00	150	335	Vertical
2	5725.072	58.01	68.30	10.29	150	326	Vertical
3	5726.273	57.27	68.30	11.03	150	335	Vertical
4	5751.035	52.16	68.30	16.14	150	109	Vertical
5	5773.771	52.62	68.30	15.68	150	192	Vertical

Final Data List

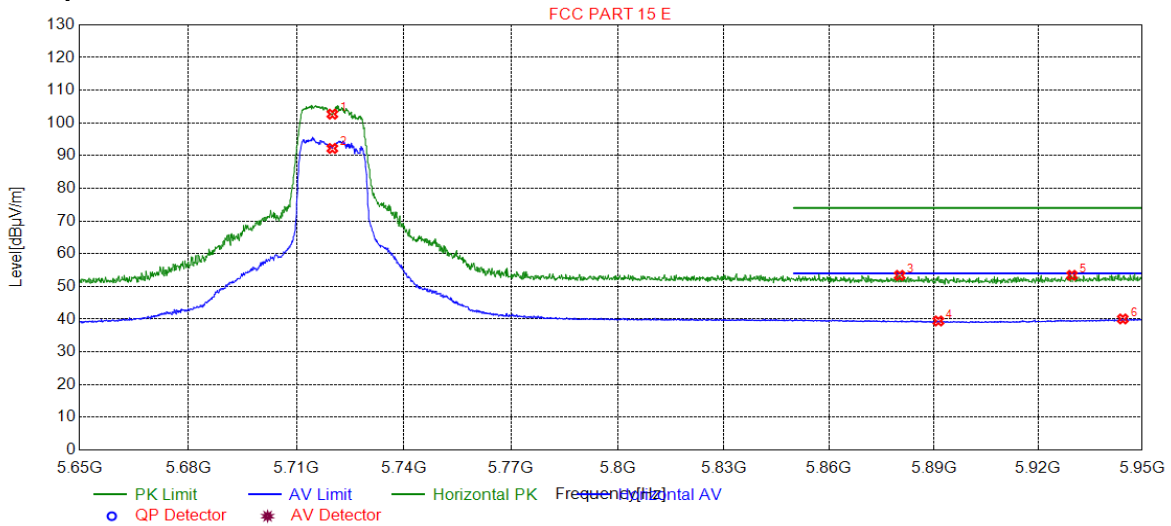


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4.10.1.71 802.11AC20_Channel 144

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.00	102.69	16.93	0.00	-102.69	150	194	Horizontal
2	5720.00	92.21	16.93	0.00	-92.21	150	194	Horizontal
3	5880.21	53.40	17.17	74.00	20.60	150	84	Horizontal
4	5891.32	39.46	17.14	54.00	14.54	150	97	Horizontal
5	5929.73	53.42	17.57	74.00	20.58	150	277	Horizontal
6	5944.44	40.08	17.79	54.00	13.92	150	152	Horizontal

Final Data List

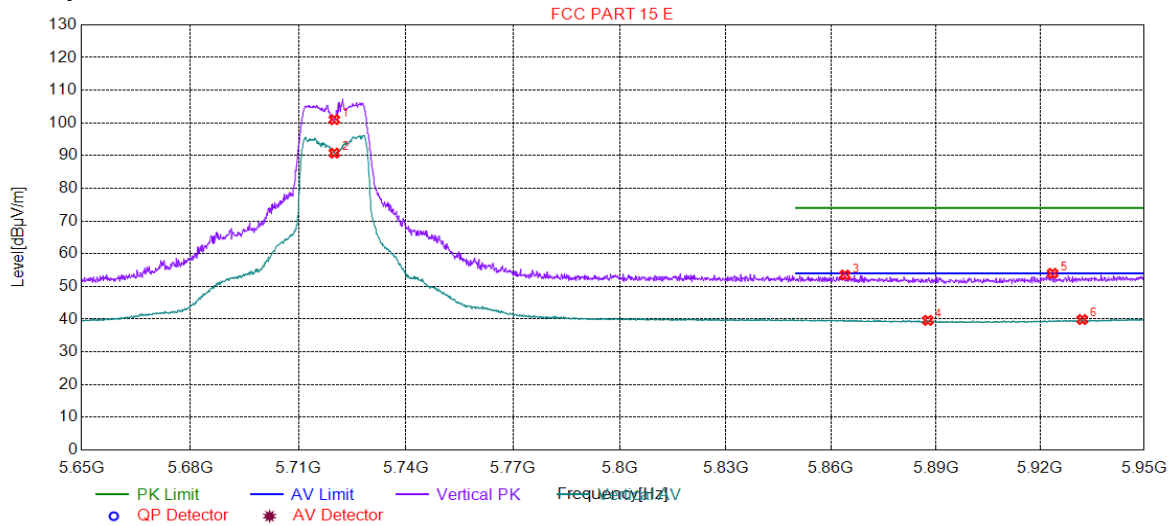


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4.10.1.72 802.11AC20_Channel 144

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5720.00	101.02	16.93	0.00	-101.02	150	145	Vertical
2	5720.00	90.79	16.93	0.00	-90.79	150	152	Vertical
3	5864.00	53.50	17.22	74.00	20.50	150	304	Vertical
4	5887.71	39.64	17.15	54.00	14.36	150	304	Vertical
5	5923.58	54.01	17.47	74.00	19.99	150	152	Vertical
6	5932.14	39.89	17.60	54.00	14.11	150	324	Vertical

Final Data List

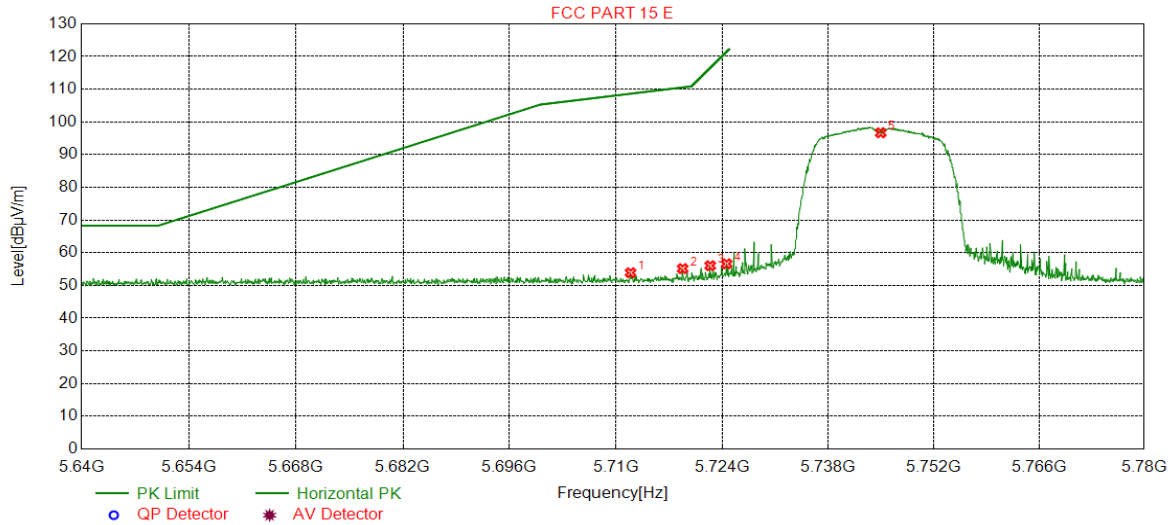


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4.10.1.73 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5711.926	53.89	108.64	54.75	150	98	Horizontal
2	5718.789	55.16	110.56	55.40	150	341	Horizontal
3	5722.431	56.05	116.44	60.39	150	80	Horizontal
4	5724.602	56.63	121.39	64.76	150	316	Horizontal
5	5745.000	96.68	0.00	-96.68	150	80	Horizontal

Final Data List

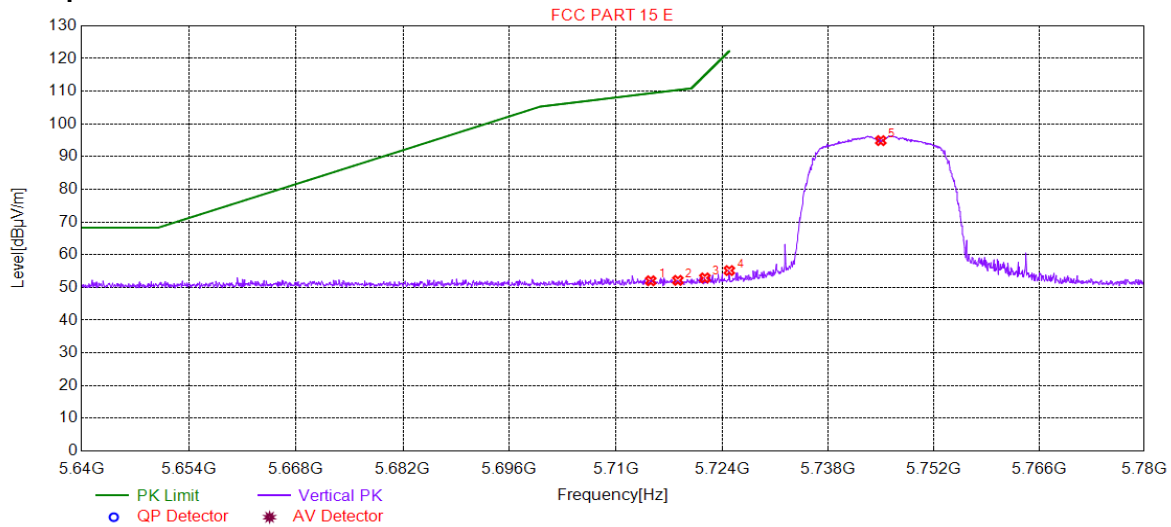


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4.10.1.74 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5714.587	52.05	109.38	57.33	150	166	Vertical
2	5718.159	52.18	110.38	58.20	150	258	Vertical
3	5721.730	52.92	114.85	61.93	150	230	Vertical
4	5724.952	55.17	122.19	67.02	150	127	Vertical
5	5745.000	94.90	0.00	-94.90	150	120	Vertical

Final Data List

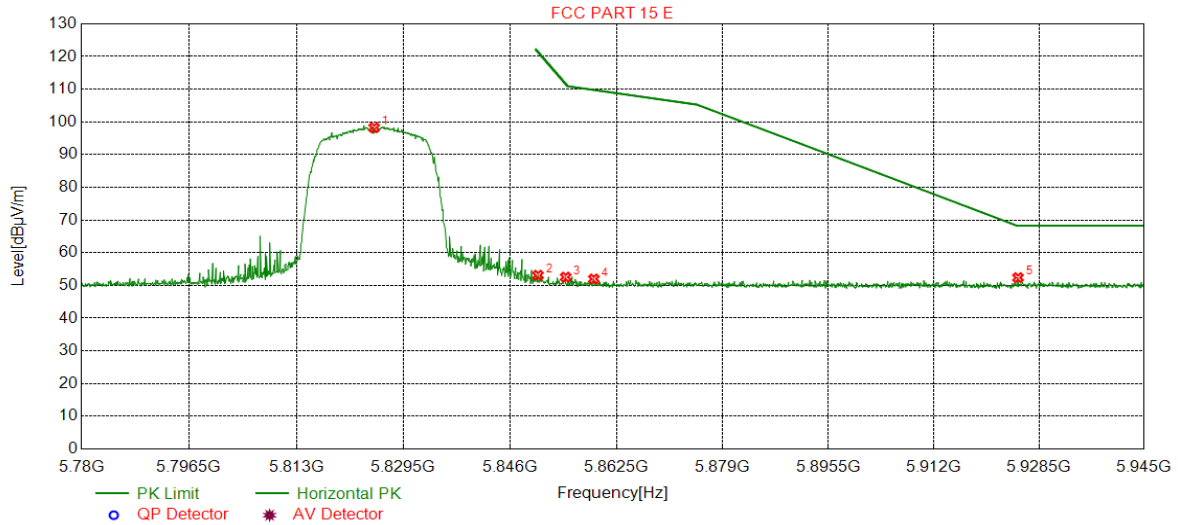


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4.10.1.75 802.11AC20_Channel 165

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	98.24	0.00	-98.24	150	69	Horizontal
2	5850.325	53.12	121.56	68.44	150	66	Horizontal
3	5854.617	52.56	111.77	59.21	150	172	Horizontal
4	5858.992	51.99	109.78	57.79	150	98	Horizontal
5	5925.190	52.40	68.30	15.90	150	101	Horizontal

Final Data List

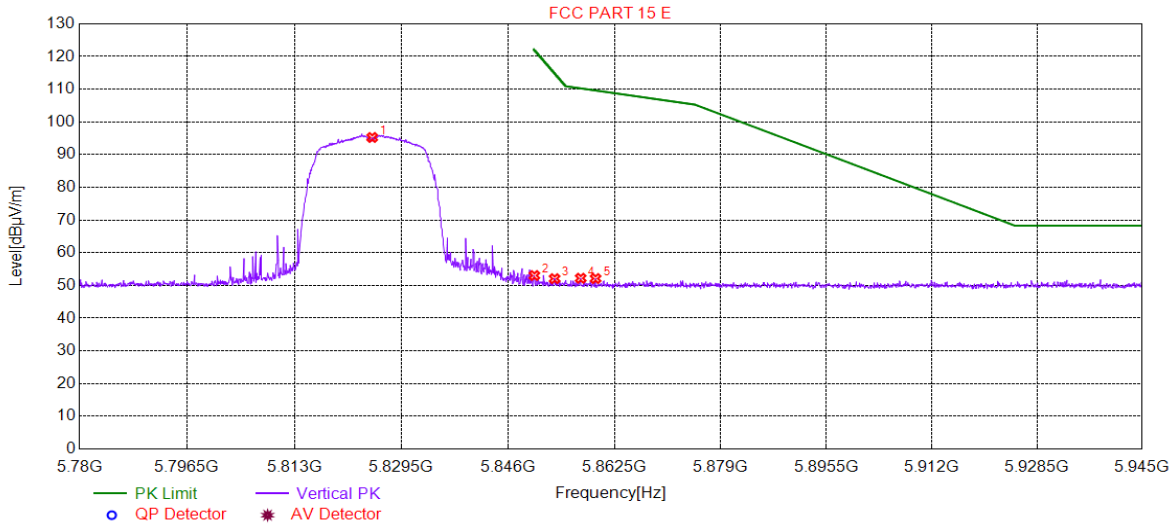


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4.10.1.76 802.11AC20_Channel 165

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	95.26	0.00	-95.26	150	220	Vertical
2	5850.077	53.05	122.12	69.07	150	104	Vertical
3	5853.214	52.09	114.97	62.88	150	82	Vertical
4	5857.258	52.22	110.27	58.05	150	139	Vertical
5	5859.569	52.13	109.62	57.49	150	90	Vertical

Final Data List

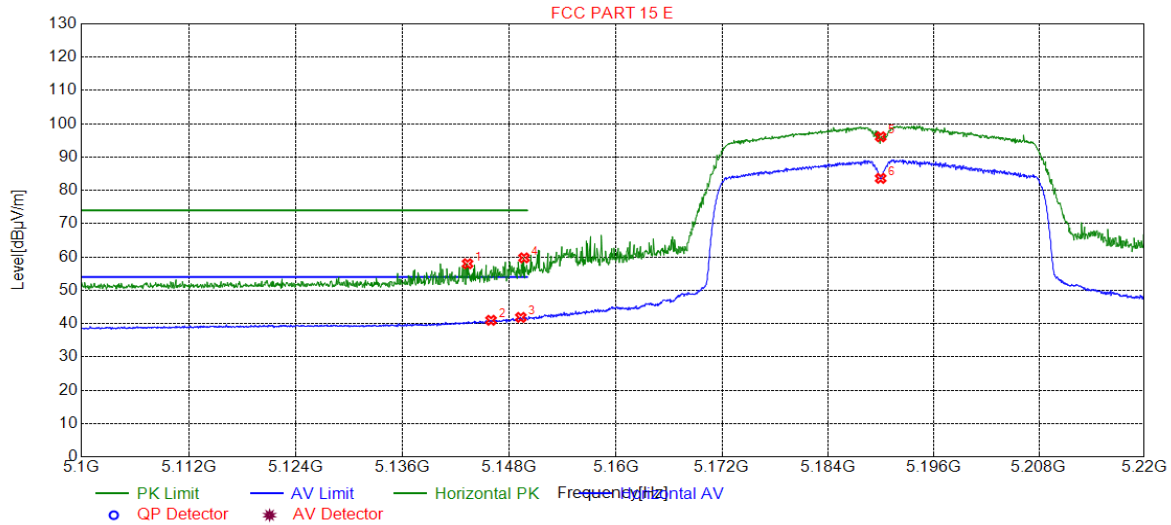


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4.10.1.77 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5143.281	58.00	74.00	16.00	150	52	Horizontal
2	5145.923	41.02	54.00	12.98	150	57	Horizontal
3	5149.284	41.89	54.00	12.11	150	52	Horizontal
4	5149.644	59.75	74.00	14.25	150	85	Horizontal
5	5190.000	96.09	0.00	-96.09	150	52	Horizontal
6	5190.000	83.61	0.00	-83.61	150	46	Horizontal

Final Data List

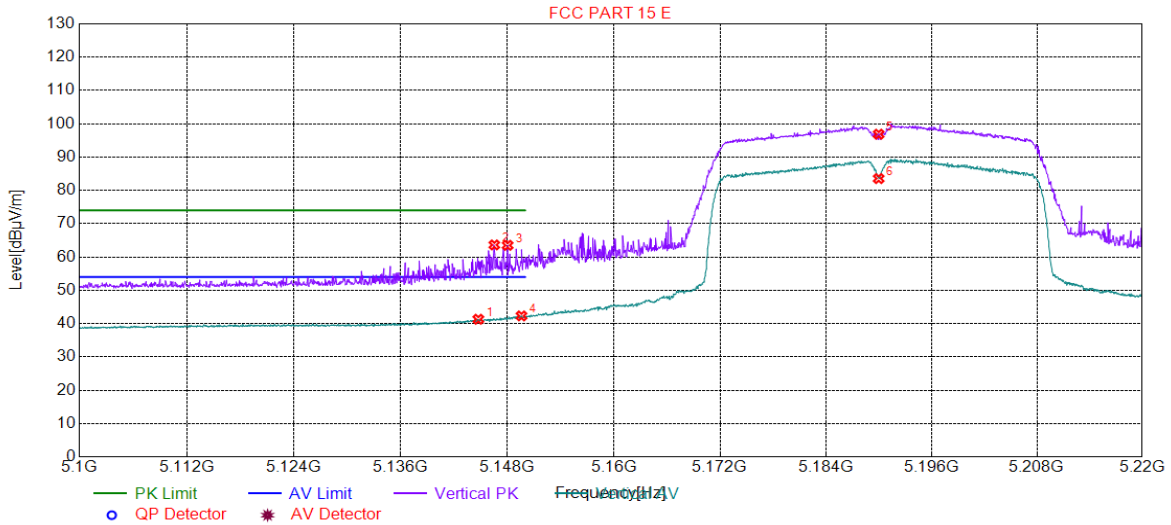


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4.10.1.78 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.722	41.33	54.00	12.67	150	319	Vertical
2	5146.523	63.64	74.00	10.36	150	297	Vertical
3	5148.024	63.52	74.00	10.48	150	291	Vertical
4	5149.584	42.33	54.00	11.67	150	291	Vertical
5	5190.000	96.88	0.00	-96.88	150	280	Vertical
6	5190.000	83.56	0.00	-83.56	150	291	Vertical

Final Data List

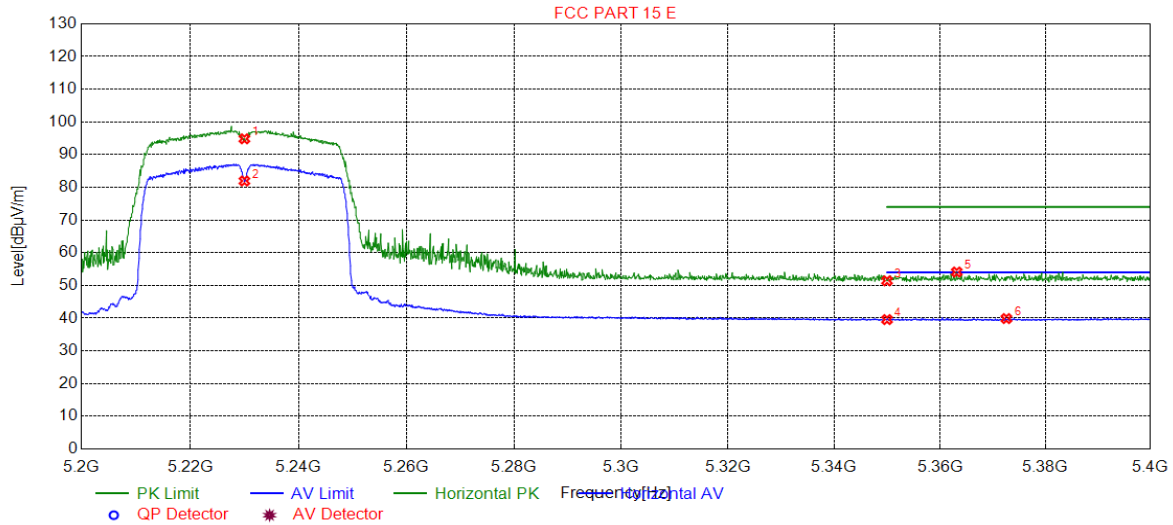


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4.10.1.79 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.000	94.85	0.00	-94.85	150	64	Horizontal
2	5230.000	81.95	0.00	-81.95	150	64	Horizontal
3	5350.000	51.43	74.00	22.57	150	139	Horizontal
4	5350.000	39.58	54.00	14.42	150	98	Horizontal
5	5363.181	54.12	74.00	19.88	150	98	Horizontal
6	5372.586	39.89	54.00	14.11	150	356	Horizontal

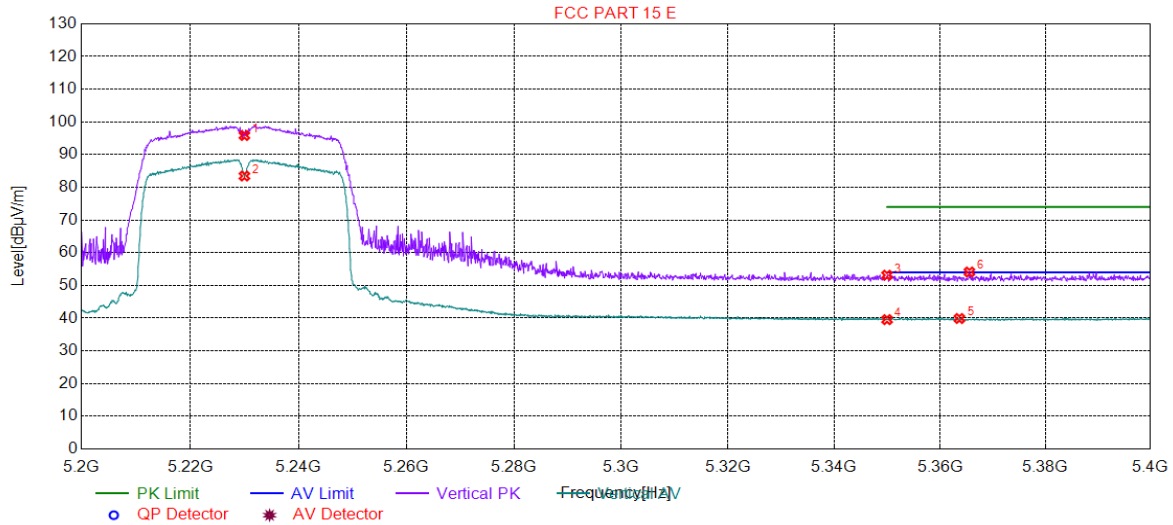
Final Data List



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4.10.1.80 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.000	95.86	0.00	-95.86	150	64	Vertical
2	5230.000	83.46	0.00	-83.46	150	298	Vertical
3	5350.000	53.15	74.00	20.85	150	338	Vertical
4	5350.000	39.56	54.00	14.44	150	78	Vertical
5	5363.681	39.91	54.00	14.09	150	325	Vertical
6	5365.582	54.12	74.00	19.88	150	284	Vertical

Final Data List

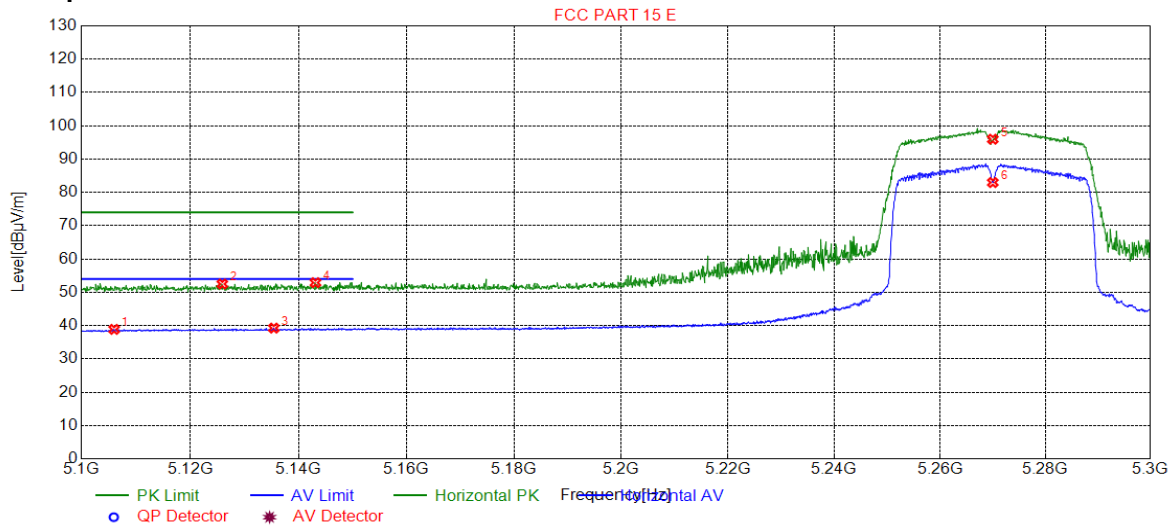


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4.10.1.81 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5106.003	38.90	54.00	15.10	150	16	Horizontal
2	5125.913	52.51	74.00	21.49	150	64	Horizontal
3	5135.417	39.28	54.00	14.72	150	70	Horizontal
4	5143.121	52.91	74.00	21.09	150	105	Horizontal
5	5270.000	95.97	0.00	-95.97	150	84	Horizontal
6	5270.000	82.97	0.00	-82.97	150	64	Horizontal

Final Data List

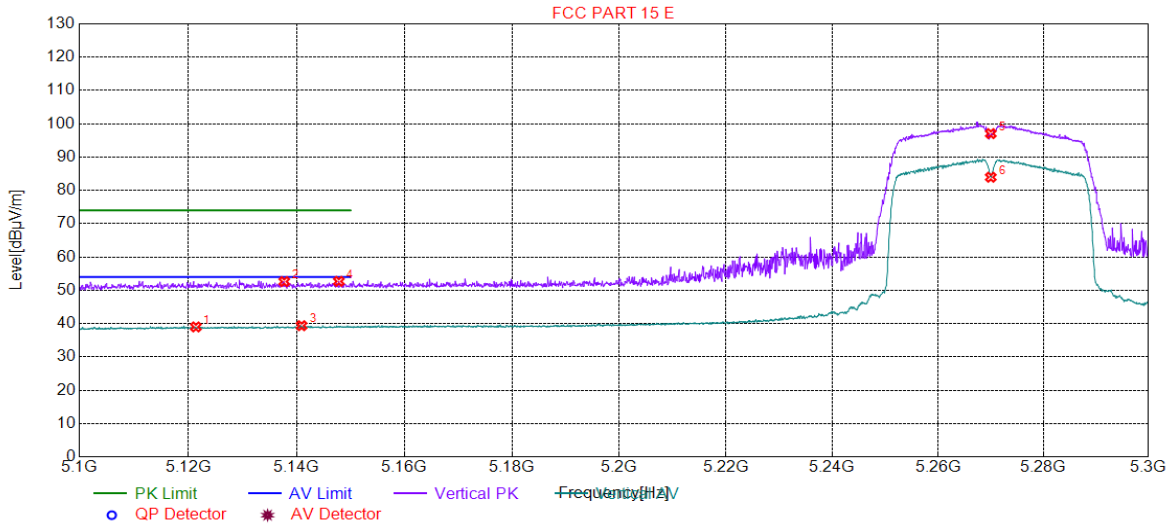


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4.10.1.82 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.410	39.03	54.00	14.97	150	324	Vertical
2	5137.718	52.64	74.00	21.36	150	111	Vertical
3	5140.920	39.40	54.00	14.60	150	311	Vertical
4	5147.823	52.70	74.00	21.30	150	71	Vertical
5	5270.000	97.05	0.00	-97.05	150	318	Vertical
6	5270.000	83.96	0.00	-83.96	150	318	Vertical

Final Data List



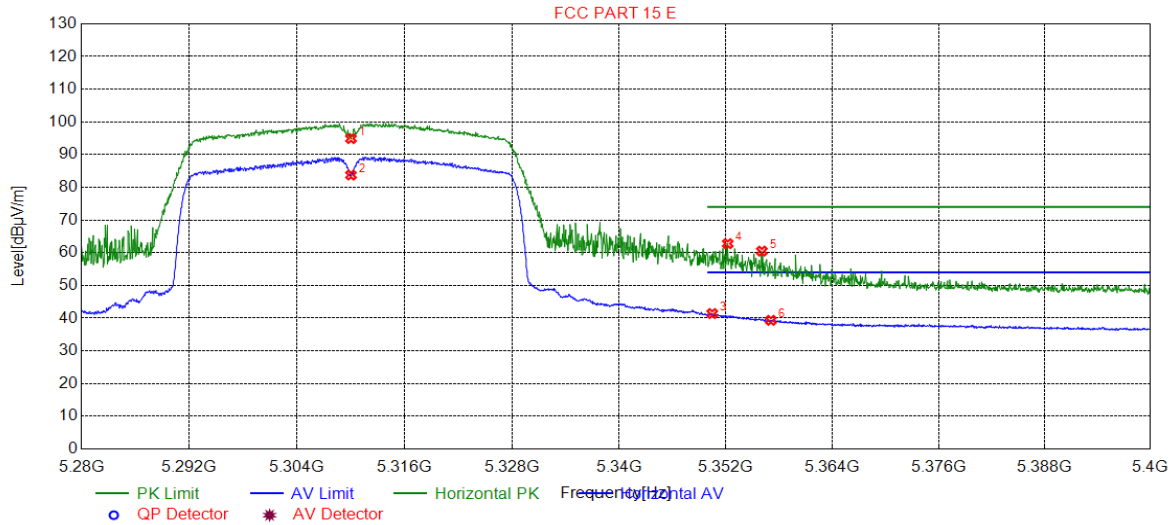
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4.10.1.83 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	94.92	0.00	-94.92	150	16	Horizontal
2	5310.000	83.77	0.00	-83.77	150	63	Horizontal
3	5350.475	41.43	54.00	12.57	150	355	Horizontal
4	5352.216	62.80	74.00	11.20	150	70	Horizontal
5	5356.058	60.51	74.00	13.49	150	63	Horizontal
6	5357.078	39.36	54.00	14.64	150	359	Horizontal

Final Data List

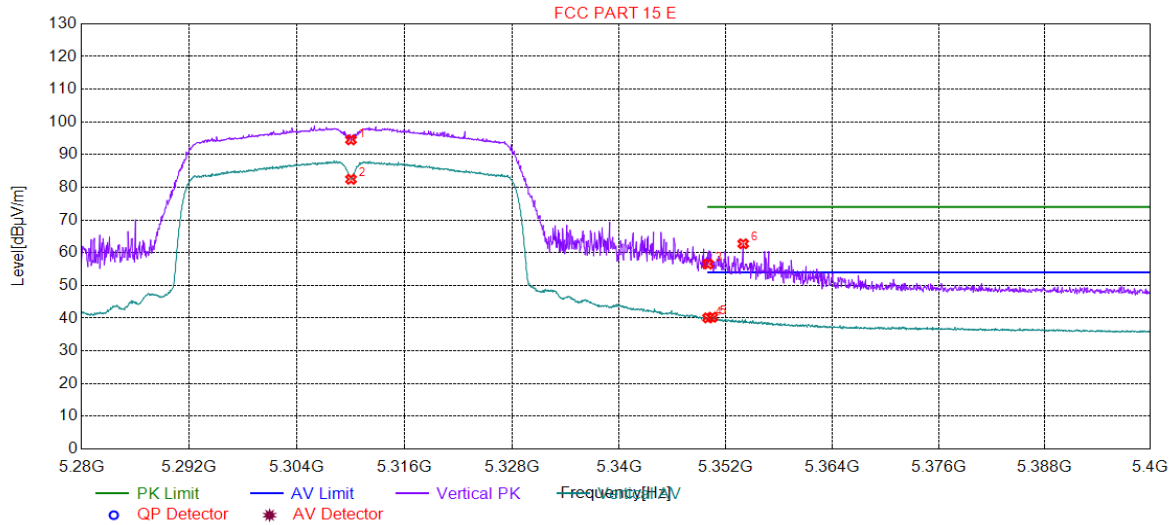


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4.10.1.84 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	94.53	0.00	-94.53	150	317	Vertical
2	5310.000	82.47	0.00	-82.47	150	324	Vertical
3	5350.000	56.56	74.00	17.44	150	331	Vertical
4	5350.000	40.09	54.00	13.91	150	344	Vertical
5	5350.475	40.30	54.00	13.70	150	344	Vertical
6	5353.957	62.76	74.00	11.24	150	317	Vertical

Final Data List

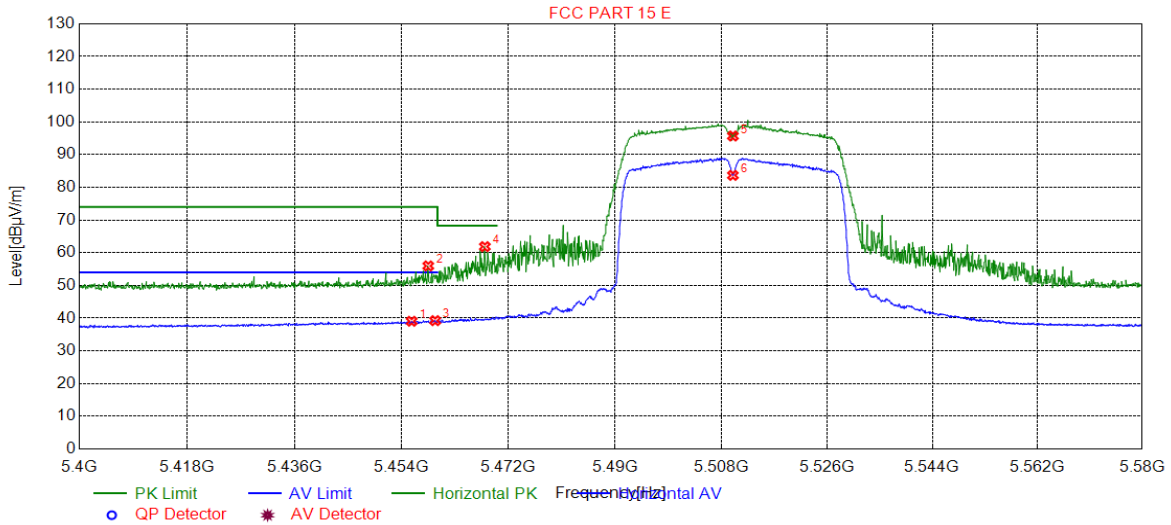


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4.10.1.85 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5455.647	39.06	54.00	14.94	150	357	Horizontal
2	5458.439	55.98	74.00	18.02	150	16	Horizontal
3	5459.609	39.25	54.00	14.75	150	357	Horizontal
4	5467.984	61.88	68.30	6.42	150	16	Horizontal
5	5510.000	95.70	0.00	-95.70	150	357	Horizontal
6	5510.000	83.67	0.00	-83.67	150	16	Horizontal

Final Data List

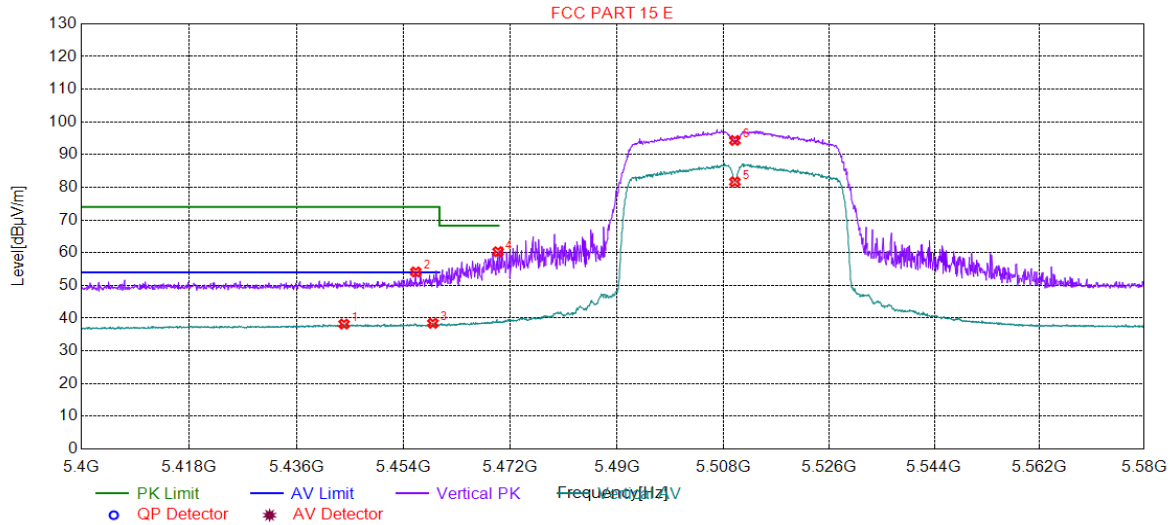


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4.10.1.86 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5443.942	38.20	54.00	15.80	150	80	Vertical
2	5456.008	54.15	74.00	19.85	150	338	Vertical
3	5458.889	38.44	54.00	15.56	150	73	Vertical
4	5469.874	60.33	68.30	7.97	150	66	Vertical
5	5510.000	81.68	0.00	-81.68	150	73	Vertical
6	5510.000	94.36	0.00	-94.36	150	338	Vertical

Final Data List

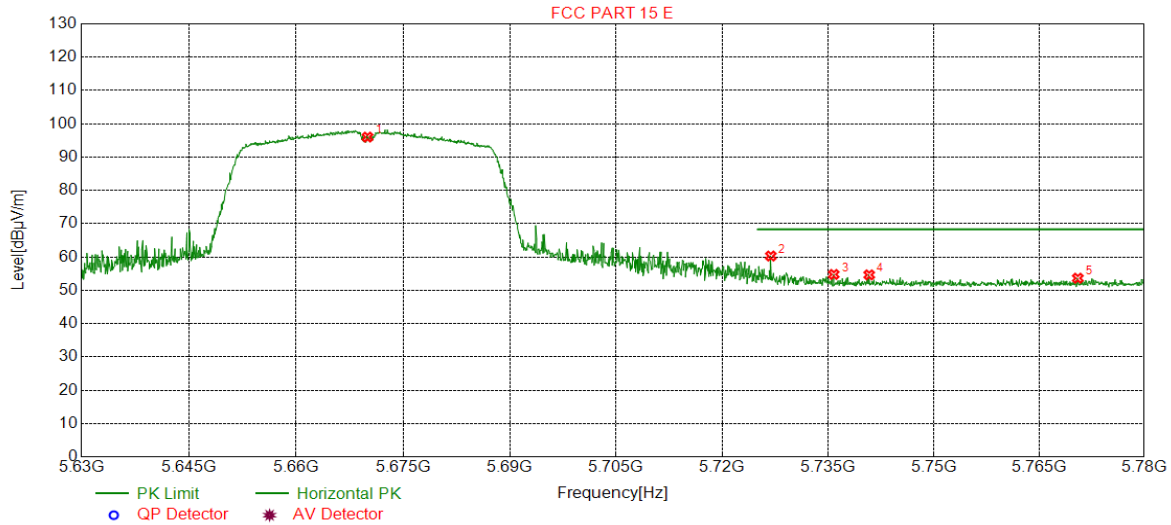


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4.10.1.87 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	96.00	0.00	-96.00	150	71	Horizontal
2	5726.873	60.31	68.30	7.99	150	89	Horizontal
3	5735.802	54.79	68.30	13.51	150	356	Horizontal
4	5740.830	54.65	68.30	13.65	150	89	Horizontal
5	5770.545	53.65	68.30	14.65	150	66	Horizontal

Final Data List

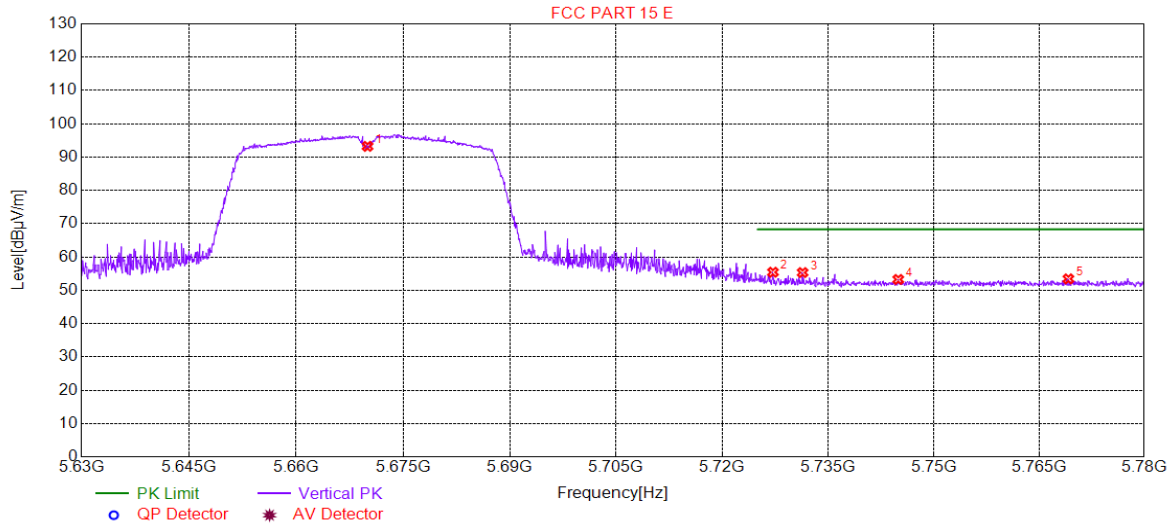


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4.10.1.88 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	93.23	0.00	-93.23	150	335	Vertical
2	5727.173	55.45	68.30	12.85	150	335	Vertical
3	5731.375	55.34	68.30	12.96	150	335	Vertical
4	5744.957	53.28	68.30	15.02	150	335	Vertical
5	5769.194	53.45	68.30	14.85	150	173	Vertical

Final Data List

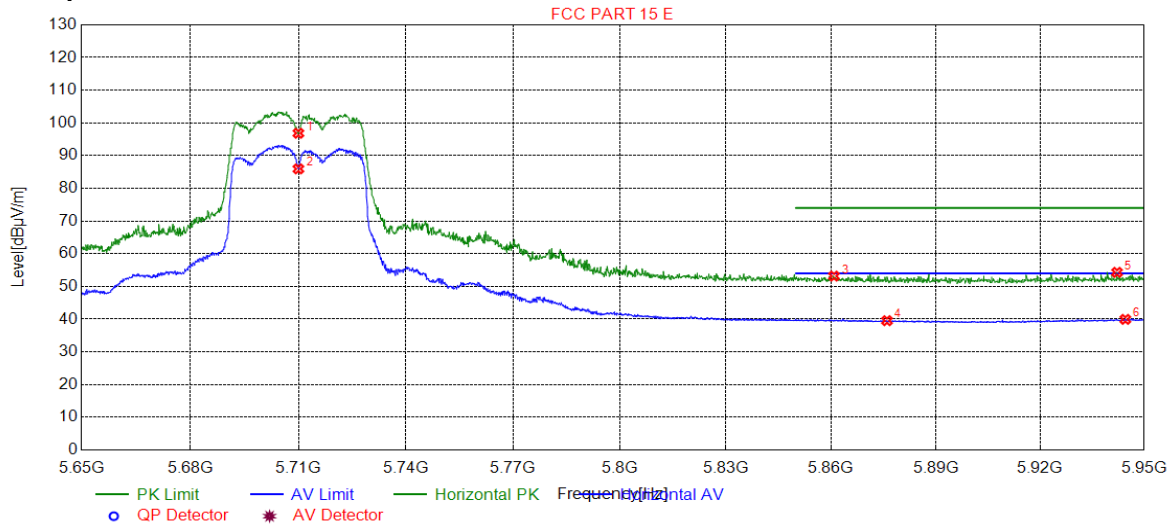


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4.10.1.90 802.11AC40_Channel 142

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.00	96.85	16.86	0.00	-96.85	150	201	Horizontal
2	5710.00	85.95	16.86	0.00	-85.95	150	201	Horizontal
3	5860.85	53.18	17.23	74.00	20.82	150	42	Horizontal
4	5876.01	39.55	17.18	54.00	14.45	150	76	Horizontal
5	5942.19	54.33	17.76	74.00	19.67	150	333	Horizontal
6	5944.59	39.95	17.80	54.00	14.05	150	305	Horizontal

Final Data List

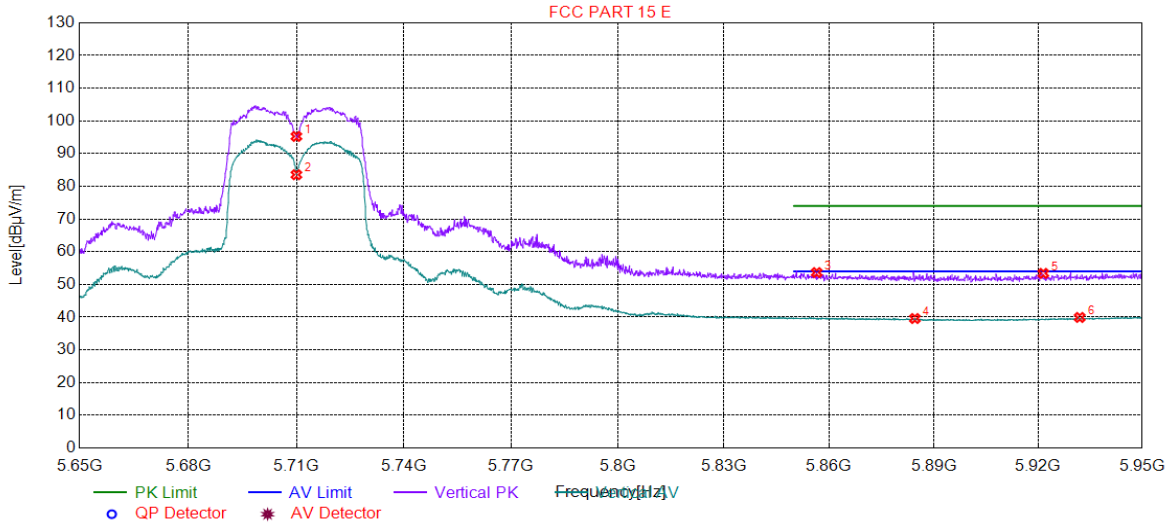


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4.10.1.91 802.11AC40_Channel 142

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.00	95.27	16.86	0.00	-95.27	150	146	Vertical
2	5710.00	83.55	16.86	0.00	-83.55	150	250	Vertical
3	5856.50	53.65	17.24	74.00	20.35	150	77	Vertical
4	5884.56	39.60	17.16	54.00	14.40	150	174	Vertical
5	5921.48	53.40	17.44	74.00	20.60	150	194	Vertical
6	5931.99	39.92	17.60	54.00	14.08	150	21	Vertical

Final Data List

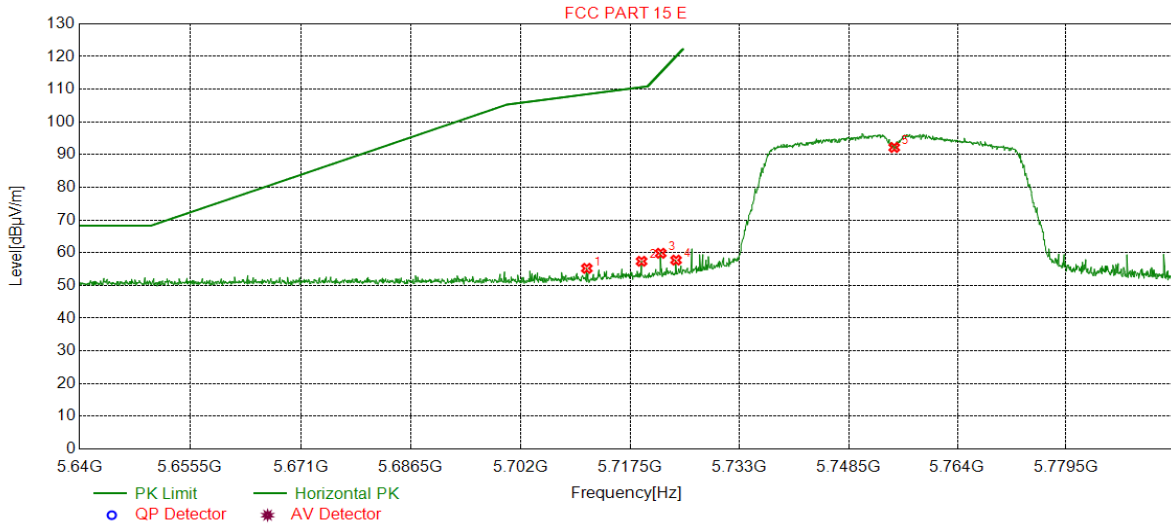


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4.10.1.92 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5711.335	55.24	108.47	53.23	150	71	Horizontal
2	5719.089	57.40	110.65	53.25	150	229	Horizontal
3	5721.803	59.85	115.01	55.16	150	309	Horizontal
4	5723.974	57.76	119.96	62.20	150	198	Horizontal
5	5755.000	92.20	0.00	-92.20	150	71	Horizontal

Final Data List

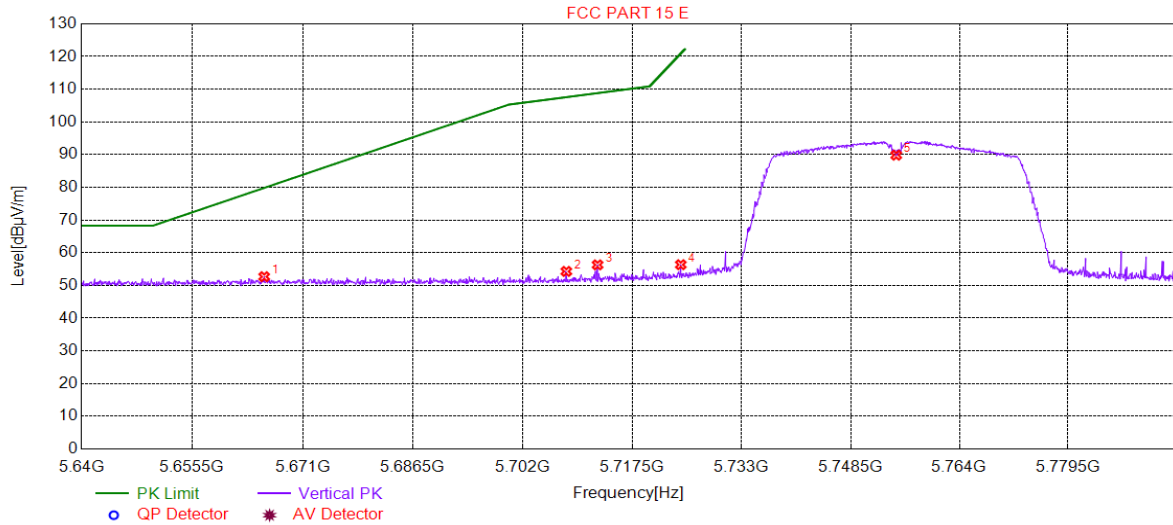


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4.10.1.93 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5665.587	52.69	79.83	27.14	150	273	Vertical
2	5708.156	54.31	107.58	53.27	150	220	Vertical
3	5712.576	56.31	108.82	52.51	150	192	Vertical
4	5724.362	56.36	120.85	64.49	150	273	Vertical
5	5755.000	89.85	0.00	-89.85	150	224	Vertical

Final Data List

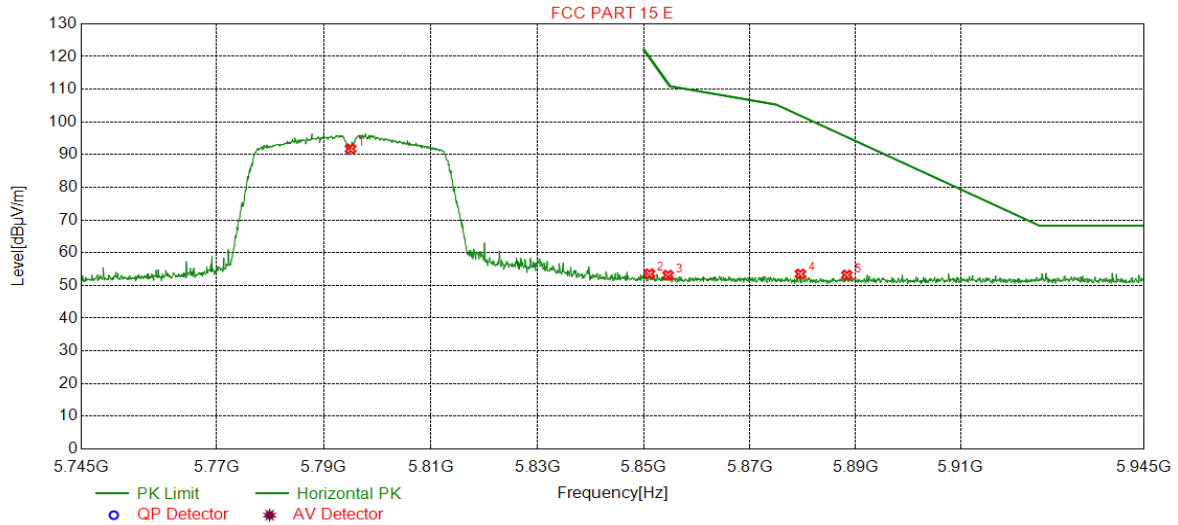


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4.10.1.94 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	91.77	0.00	-91.77	150	79	Horizontal
2	5851.053	53.58	119.90	66.32	150	97	Horizontal
3	5854.554	53.15	111.92	58.77	150	326	Horizontal
4	5879.567	53.52	101.92	48.40	150	256	Horizontal
5	5888.371	53.18	95.40	42.22	150	242	Horizontal

Final Data List

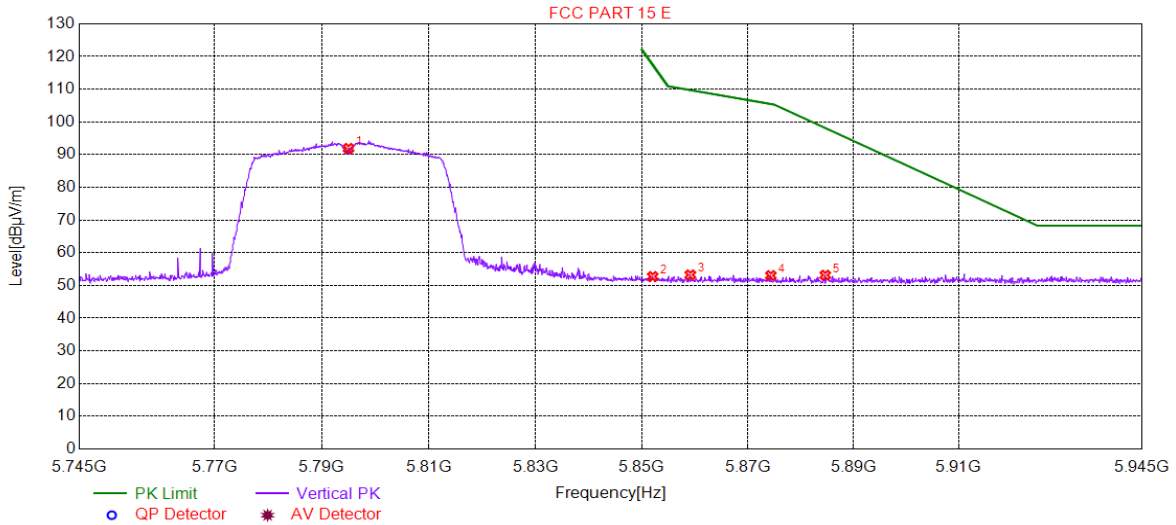


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4.10.1.95 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	91.93	0.00	-91.93	150	228	Vertical
2	5852.053	52.75	117.62	64.87	150	255	Vertical
3	5859.157	53.25	109.74	56.49	150	360	Vertical
4	5874.364	53.05	105.48	52.43	150	273	Vertical
5	5884.669	53.16	98.14	44.98	150	308	Vertical

Final Data List

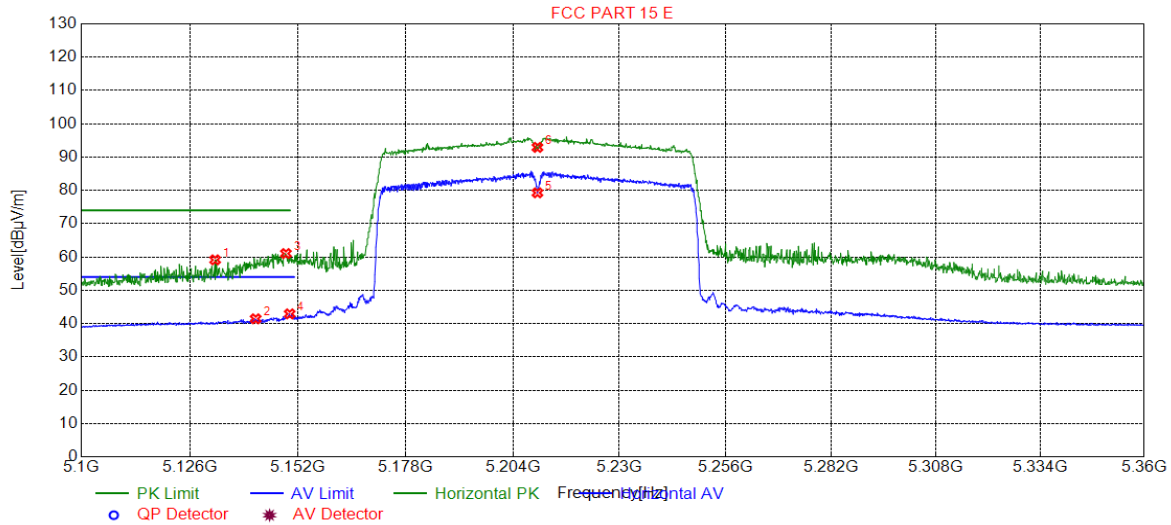


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4.10.1.96 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5131.996	59.16	74.00	14.84	150	16	Horizontal
2	5141.750	41.46	54.00	12.54	150	63	Horizontal
3	5149.034	61.05	74.00	12.95	150	63	Horizontal
4	5149.945	42.94	54.00	11.06	150	63	Horizontal
5	5210.000	79.28	0.00	-79.28	150	16	Horizontal
6	5210.000	92.92	0.00	-92.92	150	69	Horizontal

Final Data List

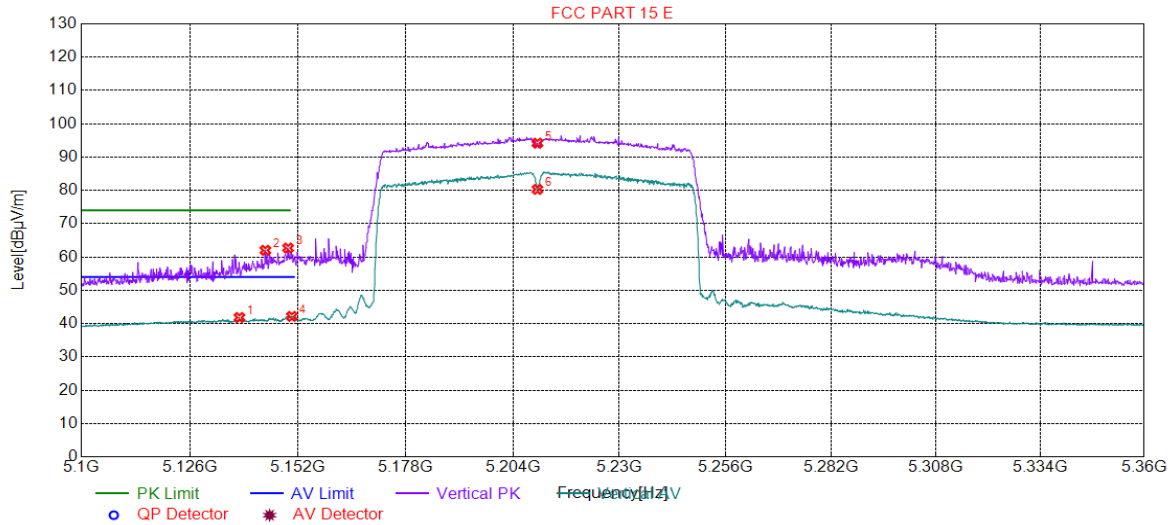


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4.10.1.97 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5137.848	41.86	54.00	12.14	150	71	Vertical
2	5144.092	62.03	74.00	11.97	150	291	Vertical
3	5149.554	62.70	74.00	11.30	150	283	Vertical
4	5150.465	42.19	54.00	11.81	150	325	Vertical
5	5210.000	94.19	0.00	-94.19	150	311	Vertical
6	5210.000	80.30	0.00	-80.30	150	318	Vertical

Final Data List

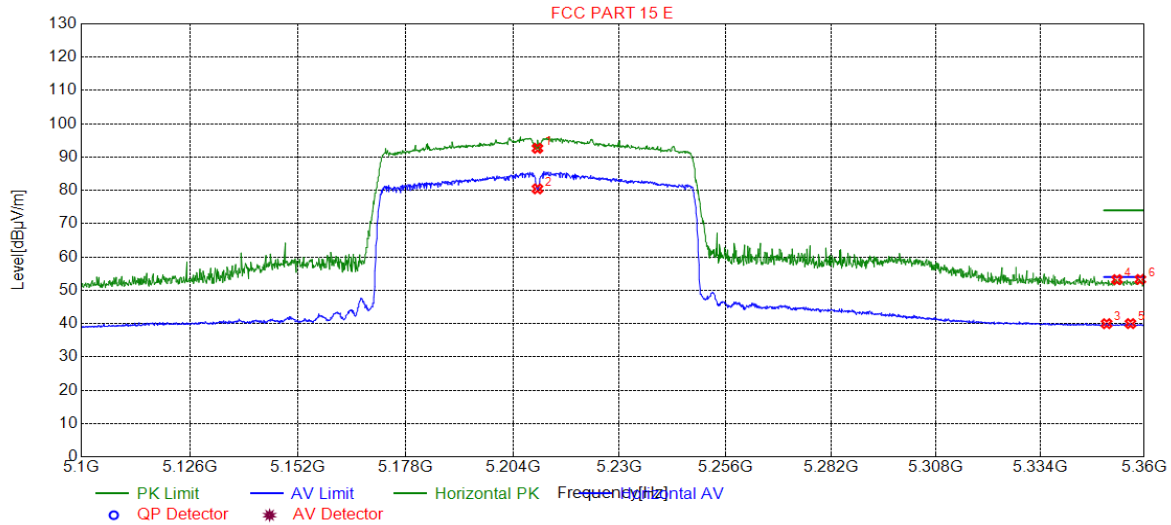


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4.10.1.98 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	92.64	0.00	-92.64	150	360	Horizontal
2	5210.000	80.47	0.00	-80.47	150	63	Horizontal
3	5350.635	40.00	54.00	14.00	150	16	Horizontal
4	5353.236	53.23	74.00	20.77	150	360	Horizontal
5	5356.618	40.03	54.00	13.97	150	16	Horizontal
6	5359.089	53.29	74.00	20.71	150	76	Horizontal

Final Data List

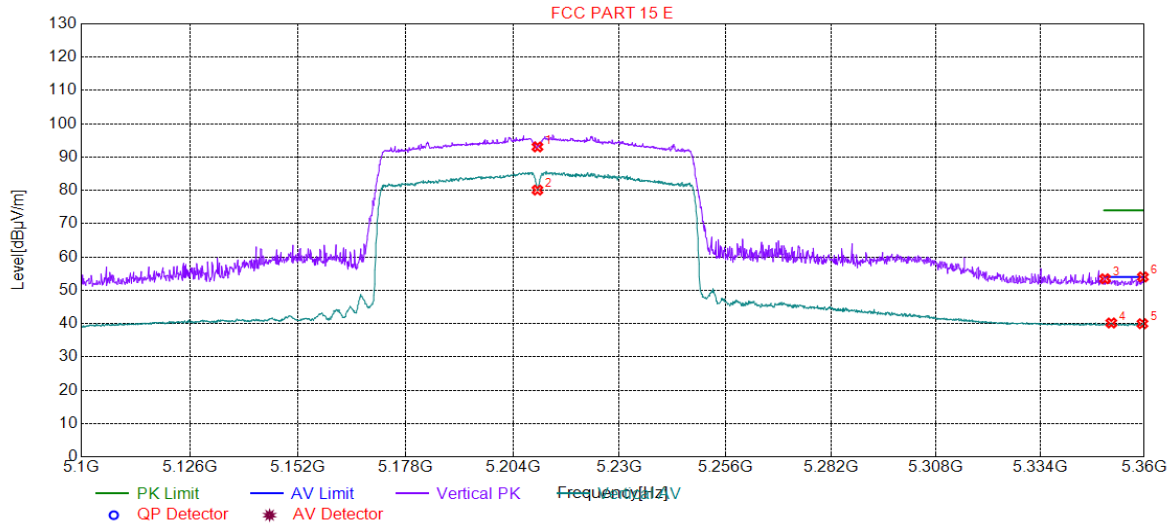


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4.10.1.99 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	93.06	0.00	-93.06	150	69	Vertical
2	5210.000	80.10	0.00	-80.10	150	297	Vertical
3	5350.245	53.48	74.00	20.52	150	317	Vertical
4	5351.805	40.21	54.00	13.79	150	330	Vertical
5	5359.609	40.00	54.00	14.00	150	76	Vertical
6	5359.739	54.02	74.00	19.98	150	97	Vertical

Final Data List

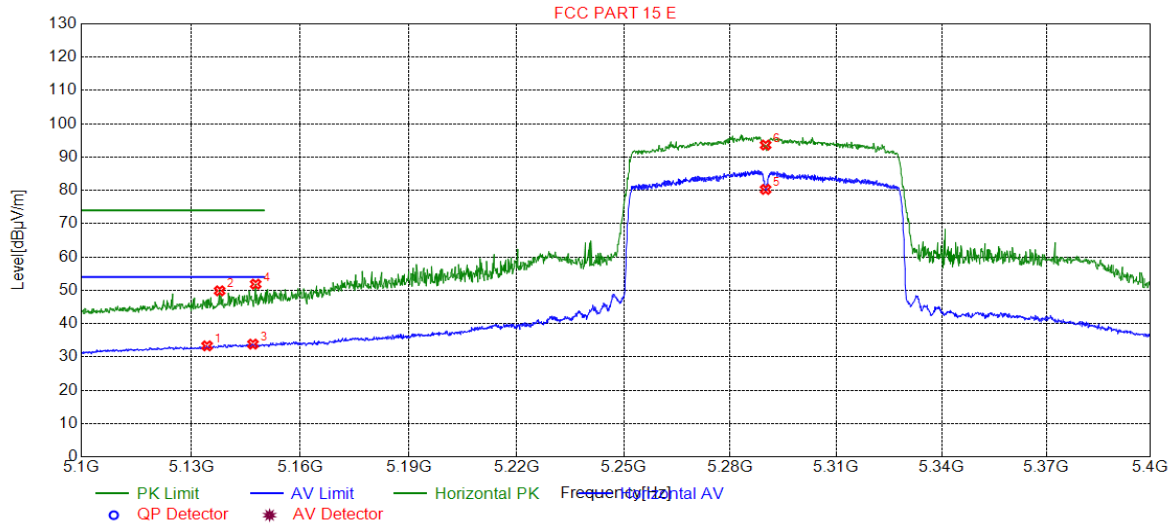


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4.10.1.100 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5134.367	33.34	54.00	20.66	150	62	Horizontal
2	5137.818	49.86	74.00	24.14	150	62	Horizontal
3	5146.973	33.87	54.00	20.13	150	62	Horizontal
4	5147.723	51.87	74.00	22.13	150	62	Horizontal
5	5290.000	80.29	0.00	-80.29	150	62	Horizontal
6	5290.000	93.61	0.00	-93.61	150	16	Horizontal

Final Data List

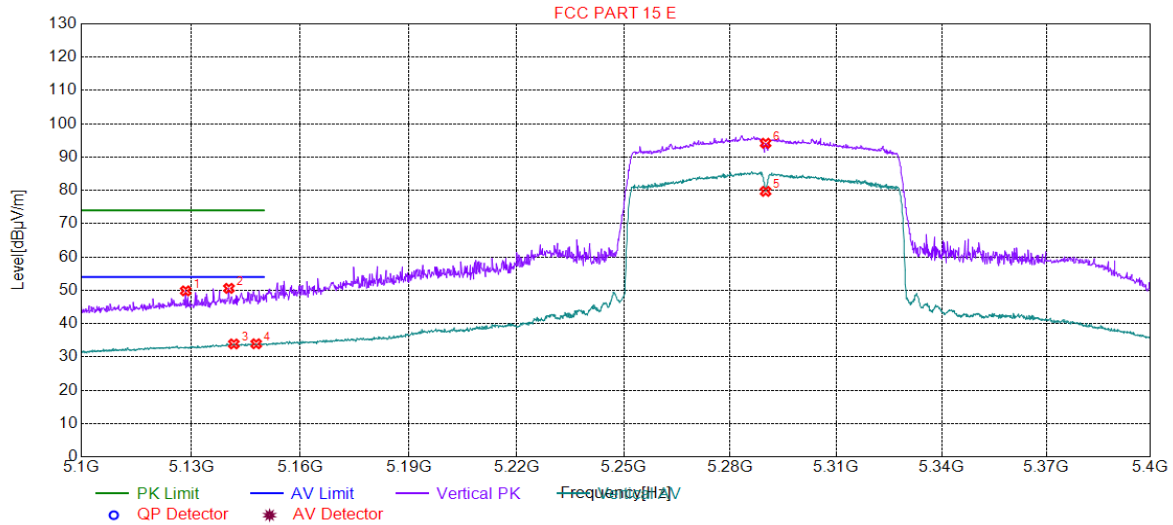


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4.10.1.101 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.514	49.85	74.00	24.15	150	76	Vertical
2	5140.370	50.60	74.00	23.40	150	290	Vertical
3	5141.720	33.92	54.00	20.08	150	311	Vertical
4	5147.873	33.96	54.00	20.04	150	311	Vertical
5	5290.000	79.72	0.00	-79.72	150	325	Vertical
6	5290.000	94.16	0.00	-94.16	150	62	Vertical

Final Data List

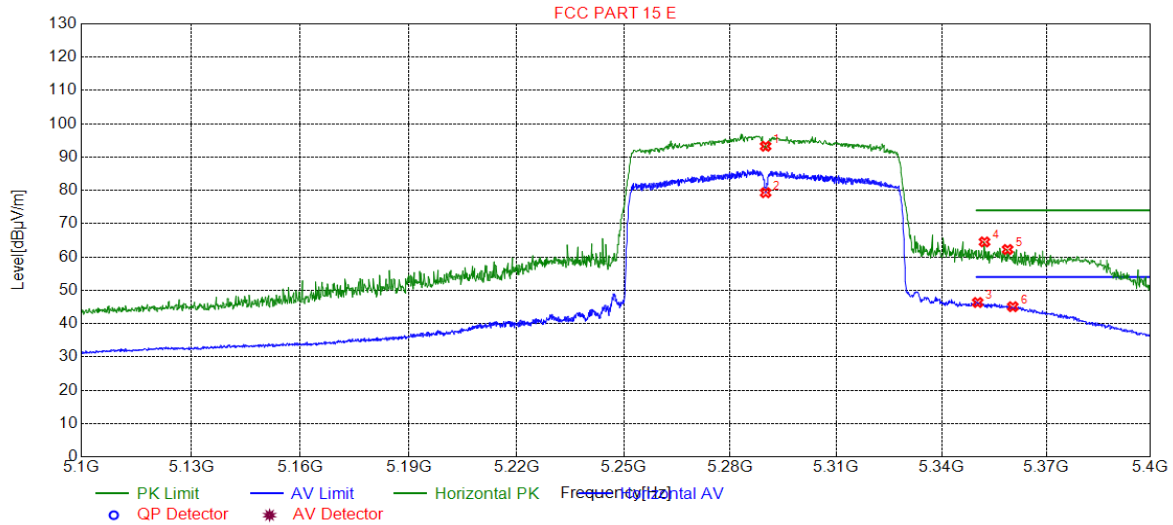


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4.10.1.102 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	93.25	0.00	-93.25	150	16	Horizontal
2	5290.000	79.31	0.00	-79.31	150	69	Horizontal
3	5350.325	46.36	54.00	7.64	150	62	Horizontal
4	5352.276	64.54	74.00	9.46	150	16	Horizontal
5	5358.879	62.27	74.00	11.73	150	350	Horizontal
6	5360.380	45.10	54.00	8.90	150	356	Horizontal

Final Data List

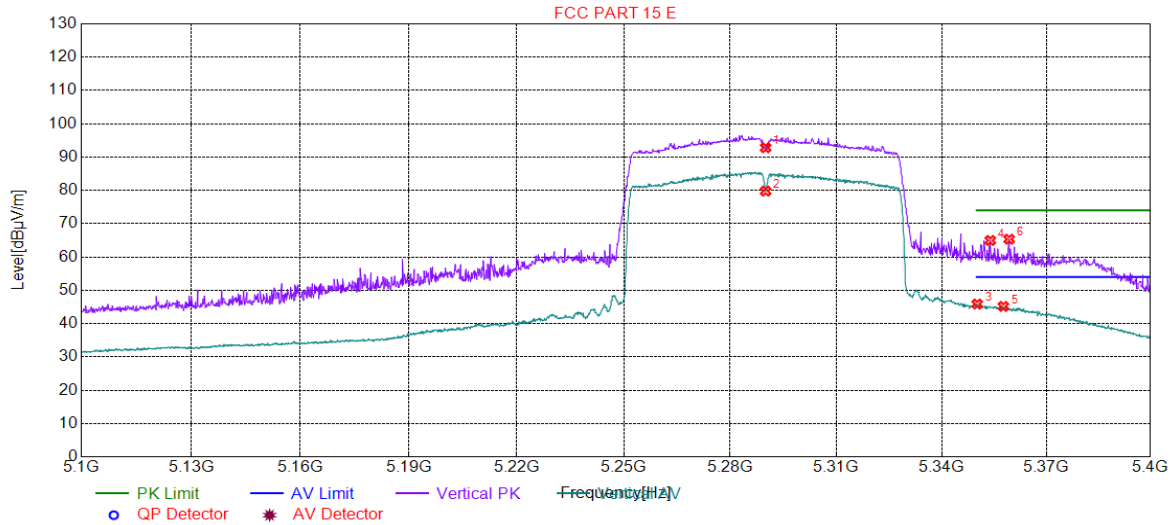


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4.10.1.103 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	92.82	0.00	-92.82	150	318	Vertical
2	5290.000	79.80	0.00	-79.80	150	66	Vertical
3	5350.175	45.90	54.00	8.10	150	73	Vertical
4	5353.927	64.99	74.00	9.01	150	325	Vertical
5	5357.678	45.18	54.00	8.82	150	73	Vertical
6	5359.329	65.36	74.00	8.64	150	73	Vertical

Final Data List

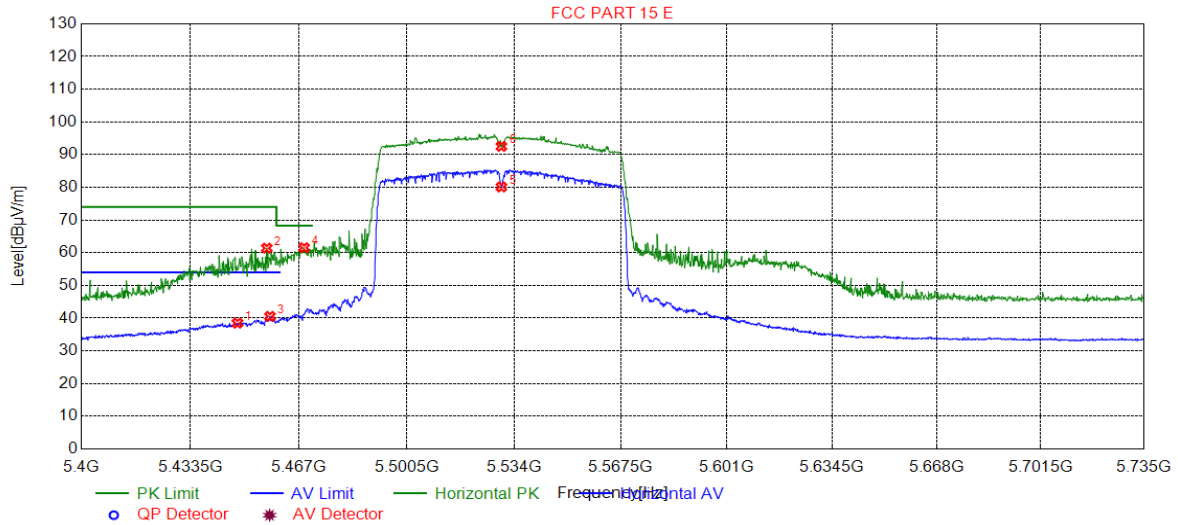


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4.10.1.104 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.929	38.49	54.00	15.51	150	358	Horizontal
2	5456.978	61.42	74.00	12.58	150	16	Horizontal
3	5457.984	40.56	54.00	13.44	150	358	Horizontal
4	5468.541	61.55	68.30	6.75	150	360	Horizontal
5	5530.000	80.13	0.00	-80.13	150	16	Horizontal
6	5530.000	92.53	0.00	-92.53	150	358	Horizontal

Final Data List

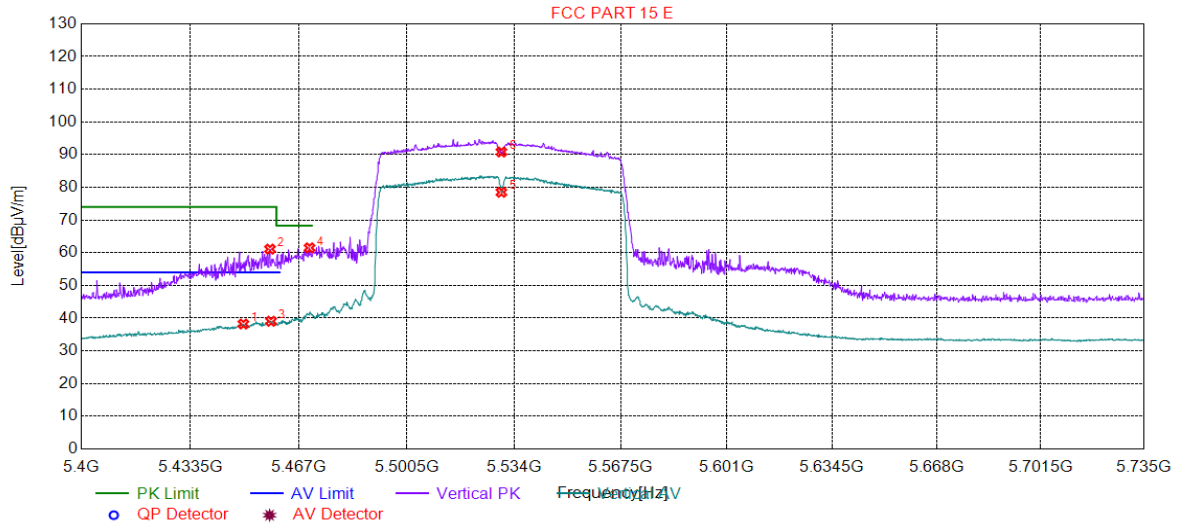


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4.10.1.105 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.772	38.22	54.00	15.78	150	71	Vertical
2	5457.984	61.12	74.00	12.88	150	319	Vertical
3	5458.319	39.07	54.00	14.93	150	319	Vertical
4	5470.217	61.51	68.30	6.79	150	64	Vertical
5	5530.000	78.50	0.00	-78.50	150	71	Vertical
6	5530.000	90.81	0.00	-90.81	150	344	Vertical

Final Data List

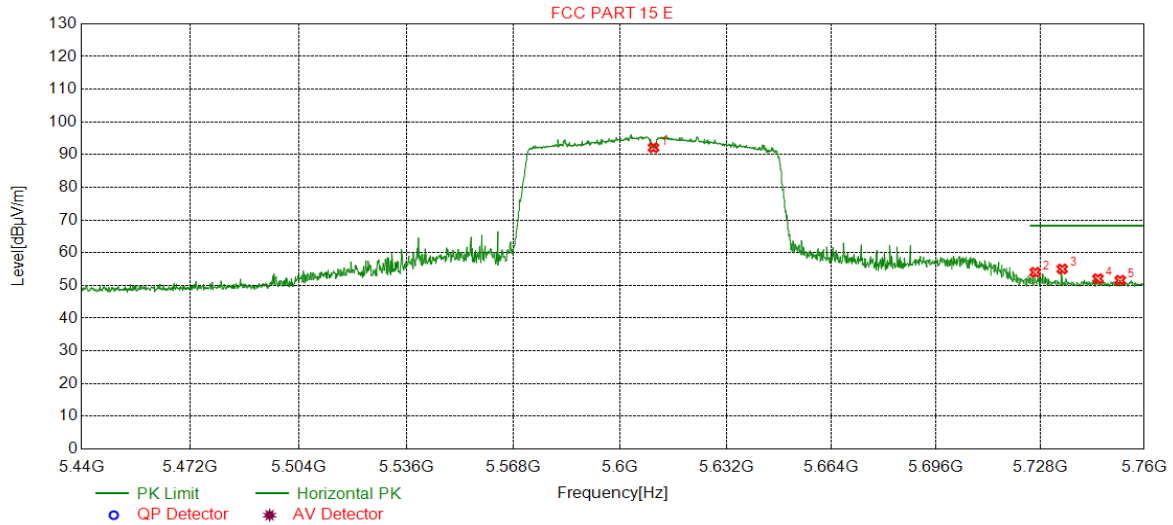


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4.10.1.106 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	92.13	0.00	-92.13	150	16	Horizontal
2	5726.383	54.03	68.30	14.27	150	89	Horizontal
3	5734.707	55.04	68.30	13.26	150	93	Horizontal
4	5745.752	52.08	68.30	16.22	150	52	Horizontal
5	5752.636	51.60	68.30	16.70	150	286	Horizontal

Final Data List

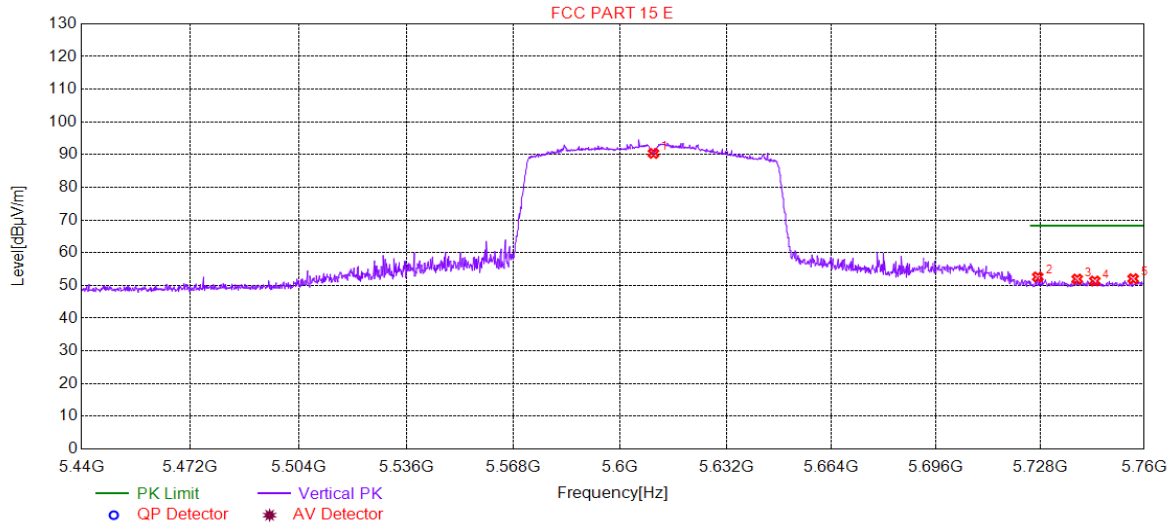


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4.10.1.107 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	90.39	0.00	-90.39	150	344	Vertical
2	5727.183	52.63	68.30	15.67	150	82	Vertical
3	5739.349	51.98	68.30	16.32	150	132	Vertical
4	5744.792	51.38	68.30	16.92	150	340	Vertical
5	5756.638	52.07	68.30	16.23	150	146	Vertical

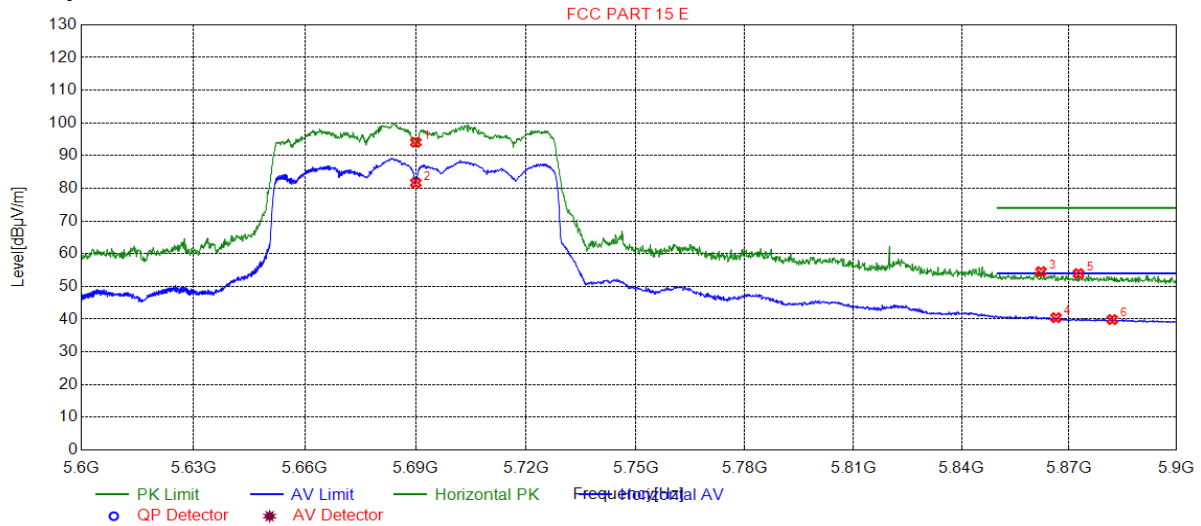
Final Data List



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4.10.1.108 802.11AC80_Channel 138

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	94.08	16.75	0.00	-94.08	150	199	Horizontal
2	5690.00	81.69	16.75	0.00	-81.69	150	199	Horizontal
3	5862.18	54.56	17.22	74.00	19.44	150	69	Horizontal
4	5866.38	40.47	17.21	54.00	13.53	150	83	Horizontal
5	5872.68	53.94	17.19	74.00	20.06	150	199	Horizontal
6	5882.14	39.89	17.16	54.00	14.11	150	83	Horizontal

Final Data List

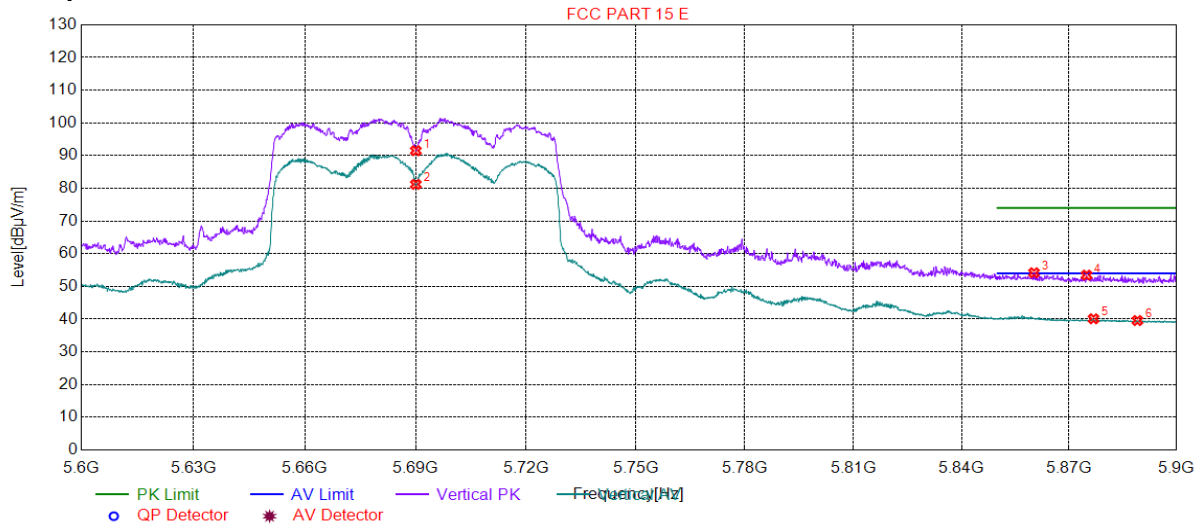


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4.10.1.109 802.11AC80_Channel 138

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	91.51	16.75	0.00	-91.51	150	33	Vertical
2	5690.00	81.22	16.75	0.00	-81.22	150	151	Vertical
3	5860.23	54.20	17.23	74.00	19.80	150	19	Vertical
4	5874.93	53.47	17.19	74.00	20.53	150	6	Vertical
5	5876.88	40.13	17.18	54.00	13.87	150	26	Vertical
6	5889.19	39.59	17.14	54.00	14.41	150	344	Vertical

Final Data List

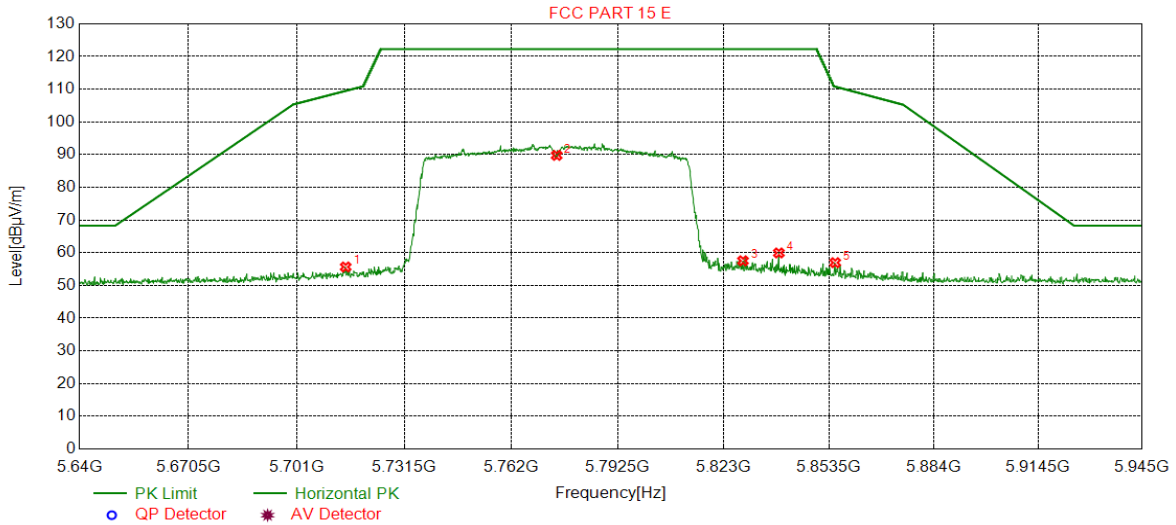


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4.10.1.110 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5714.915	55.67	109.48	53.81	150	320	Horizontal
2	5775.000	89.79	122.30	32.51	150	69	Horizontal
3	5828.584	57.54	122.30	64.76	150	83	Horizontal
4	5838.959	59.95	122.30	62.35	150	83	Horizontal
5	5855.285	56.98	110.82	53.84	150	69	Horizontal

Final Data List

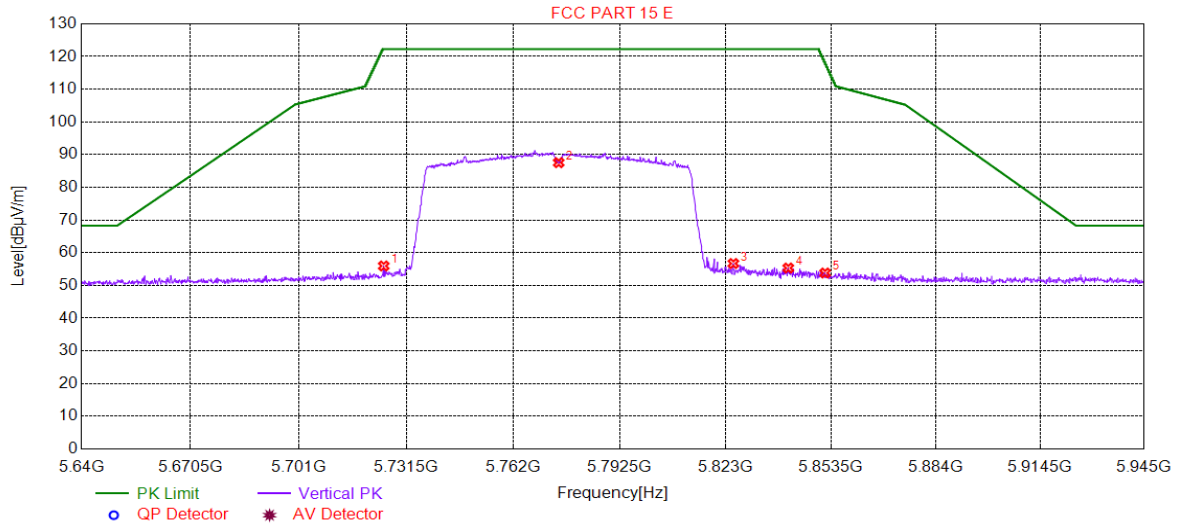


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4.10.1.111 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5725.137	55.97	122.30	66.33	150	106	Vertical
2	5775.000	87.54	122.30	34.76	150	91	Vertical
3	5825.227	56.72	122.30	65.58	150	226	Vertical
4	5841.095	55.34	122.30	66.96	150	117	Vertical
5	5851.775	53.82	118.25	64.43	150	271	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)	5180.001801	5825.006982
V max(V)	5180.008724	5825.011281
V min(V)	5180.014262	5825.019109
Max. Deviation Frequency	0.014262	0.019109
Max. Frequency Error (ppm)	2.753327	3.280568

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.003216	5825.001817
5	5180.003292	5825.004409
15	5180.010686	5825.008396
25	5180.018839	5825.016522
35	5180.025405	5825.023247
45	5180.031595	5825.025527
50	5180.032539	5825.030293
Max. Deviation Frequency	0.032539	0.030293
Max. Frequency Error (ppm)	6.281585	5.200544



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
<p>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.</p>		



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
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

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.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> 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.</p>	



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4.12.4 Test plots
4.12.4.1 DFS Detection Thresholds
4.12.4.1.1 Test Result

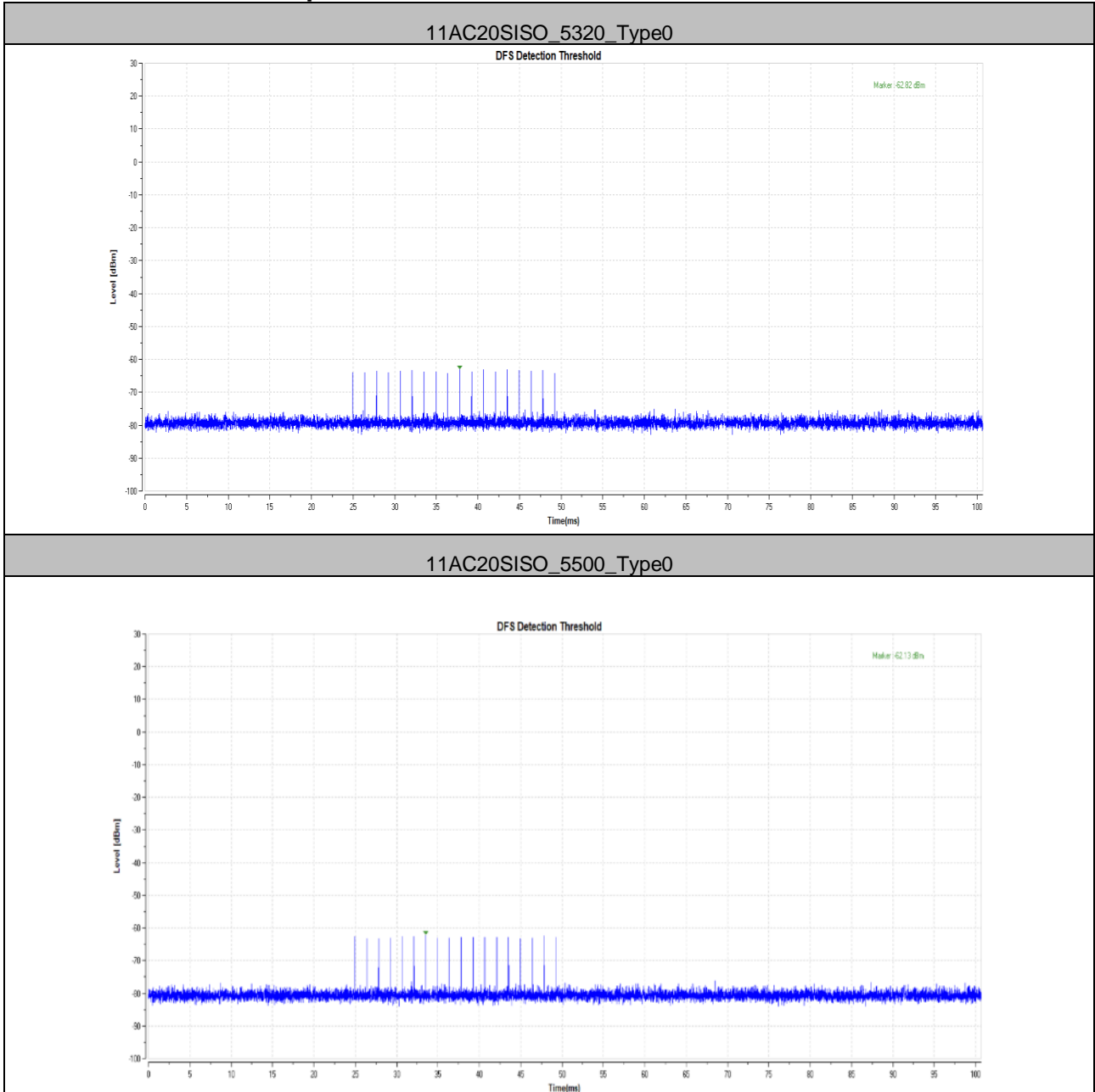
TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.82	-61.00	PASS
	5500	Type0	-62.13	-61.00	PASS
11AC80SISO	5290	Type0	-63.00	-61.00	PASS
	5530	Type0	-61.73	-61.00	PASS



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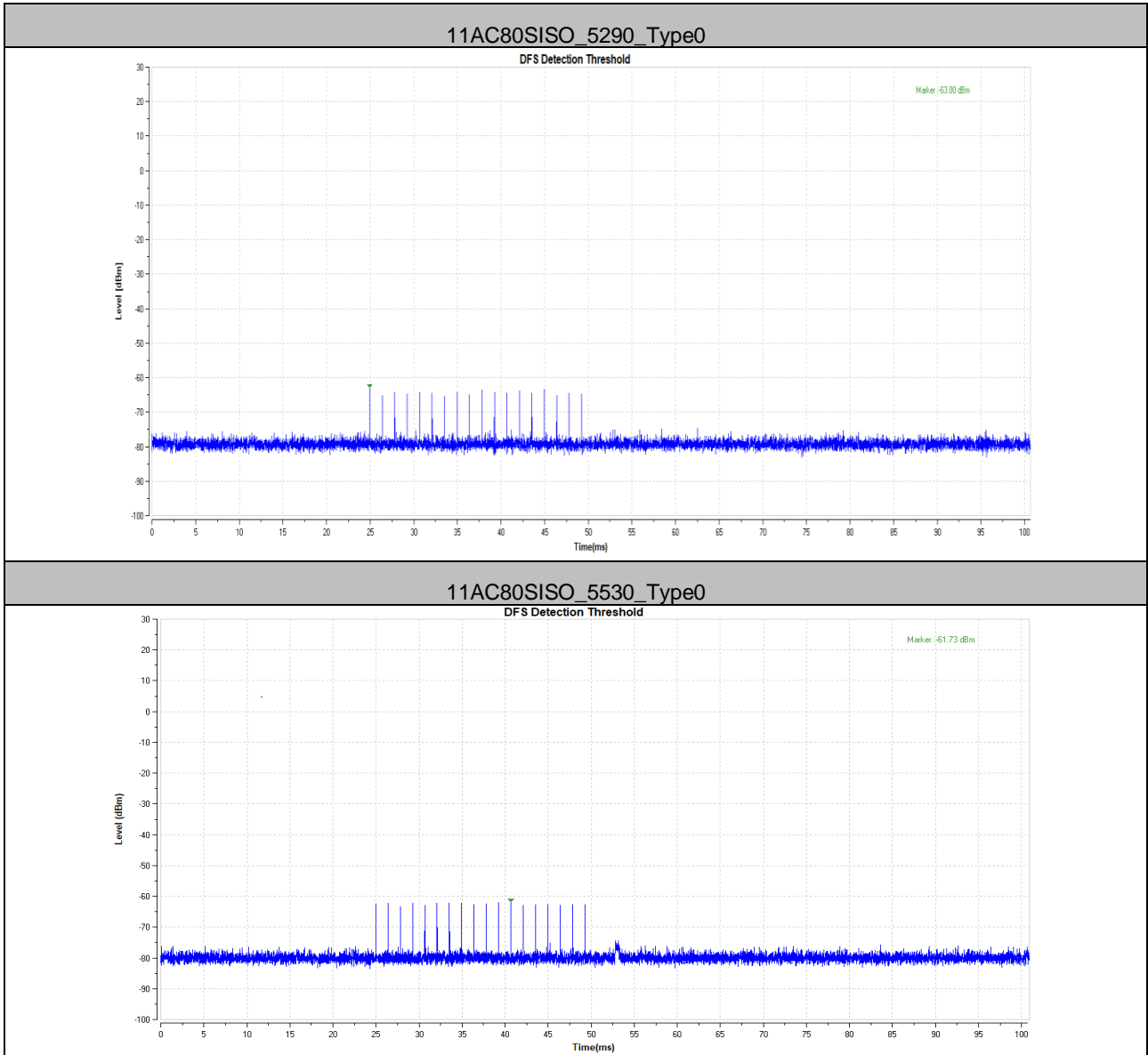
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4.12.4.2.1 Test Graphs



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4.12.4.3 Channel Move Time and Channel Closing Transmission Time

4.12.4.3.1 Test Result

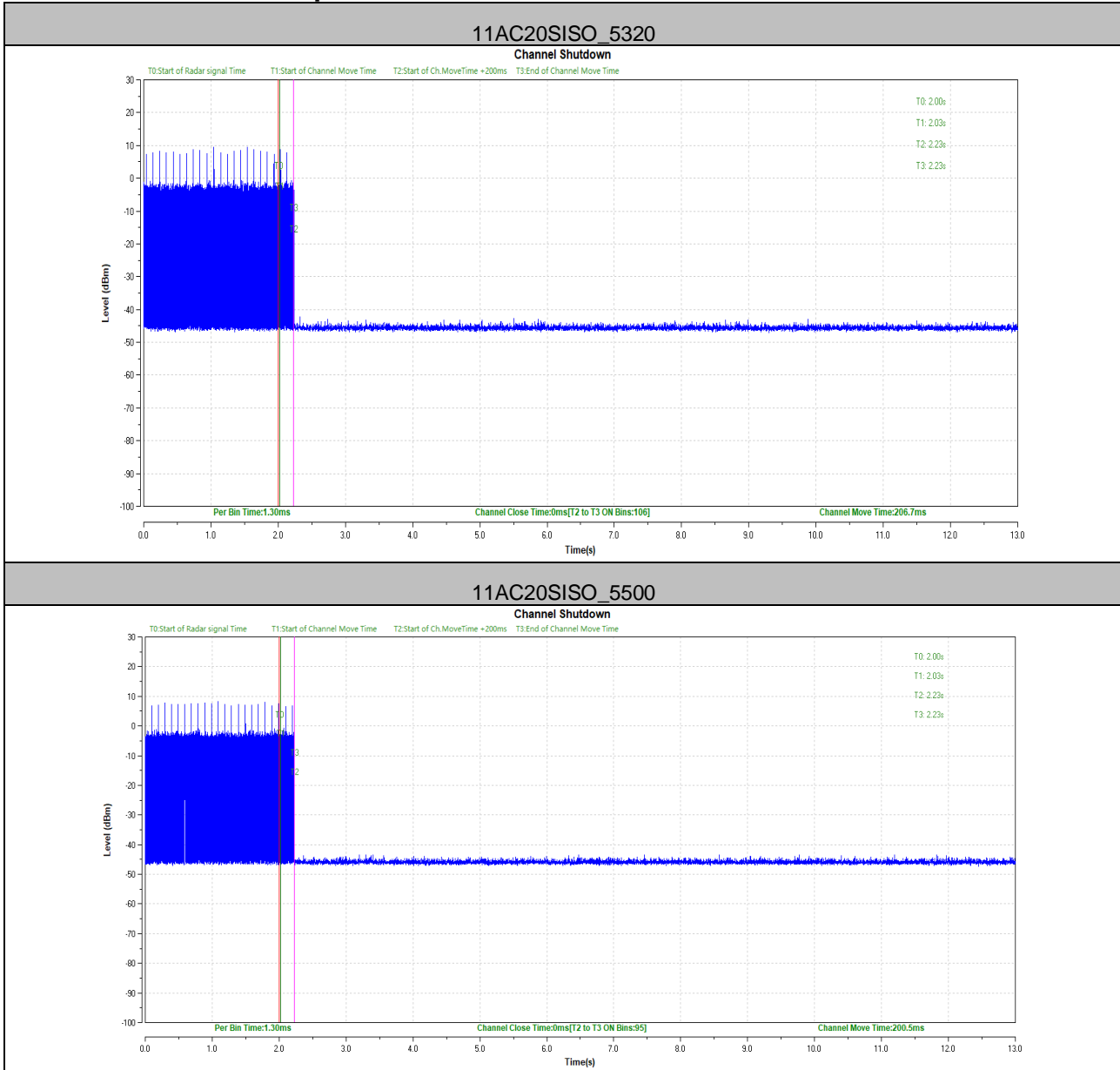
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	0	60	206.7	10000	PASS
	5500	0	60	200.5	10000	PASS
11AC80SISO	5290	0	60	203.8	10000	PASS
	5530	0	60	202.3	10000	PASS



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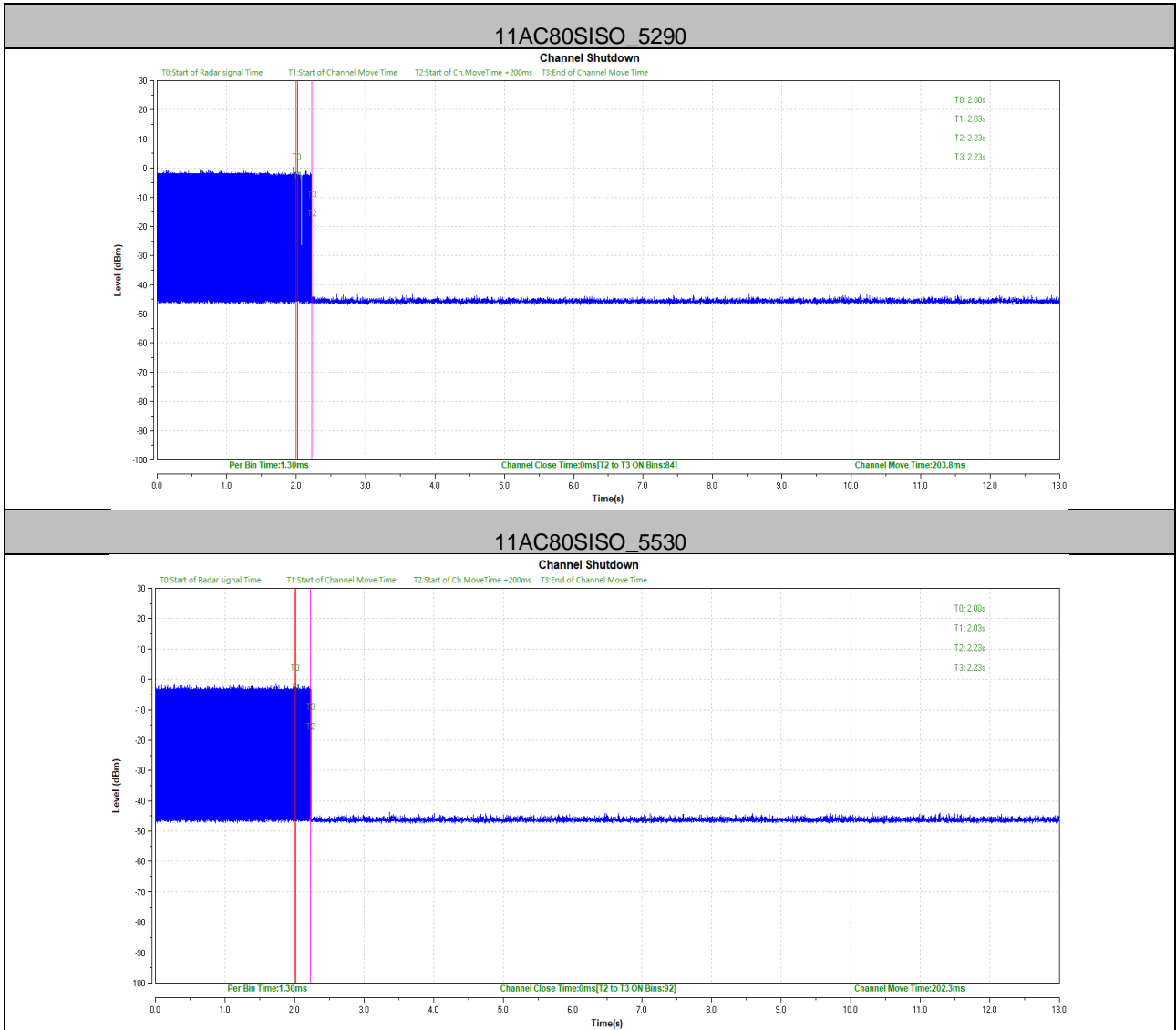
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4.12.4.3.2 Test Graphs



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4.12.4.4 Non-Occupancy Period

4.12.4.4.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS

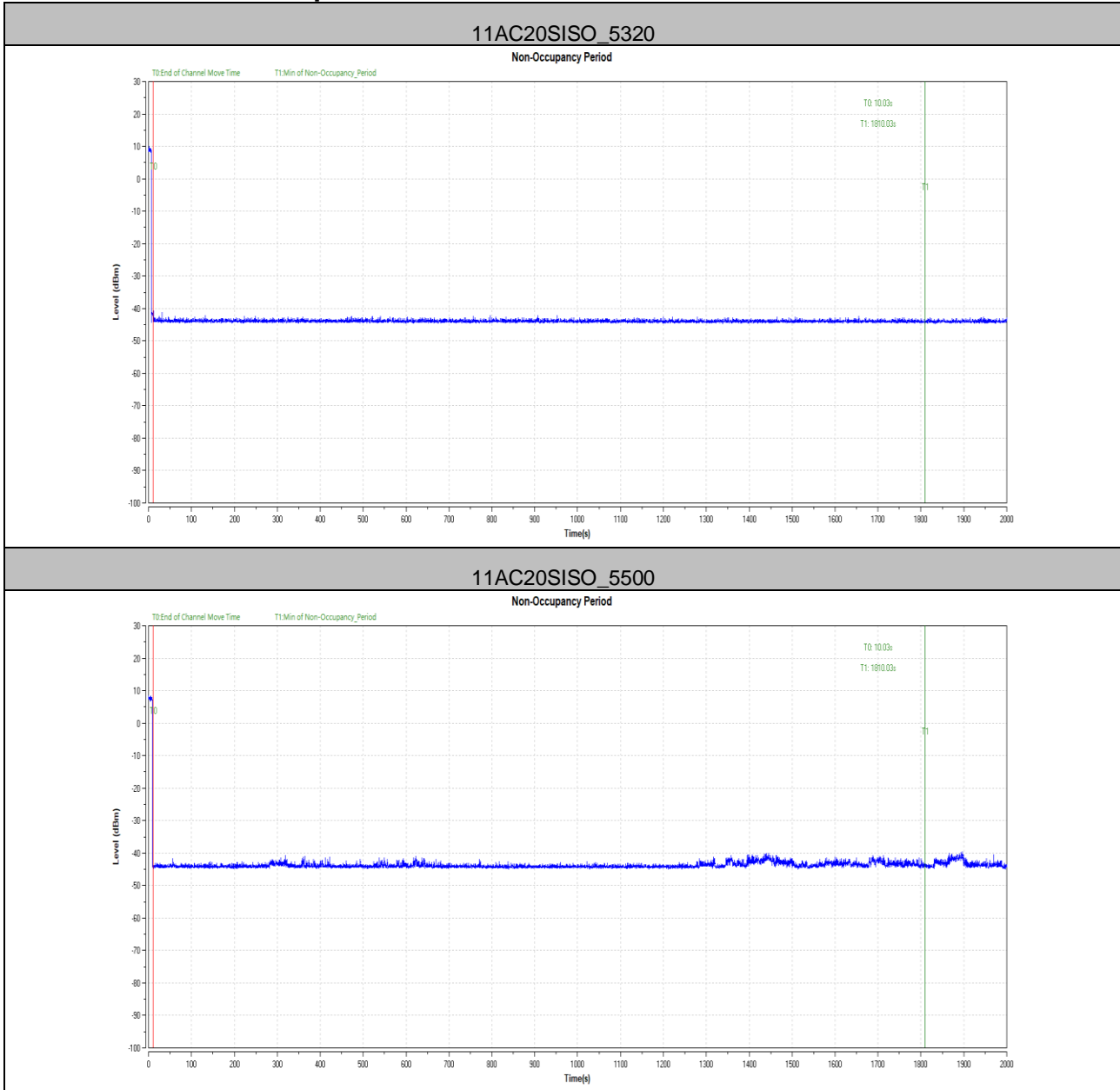


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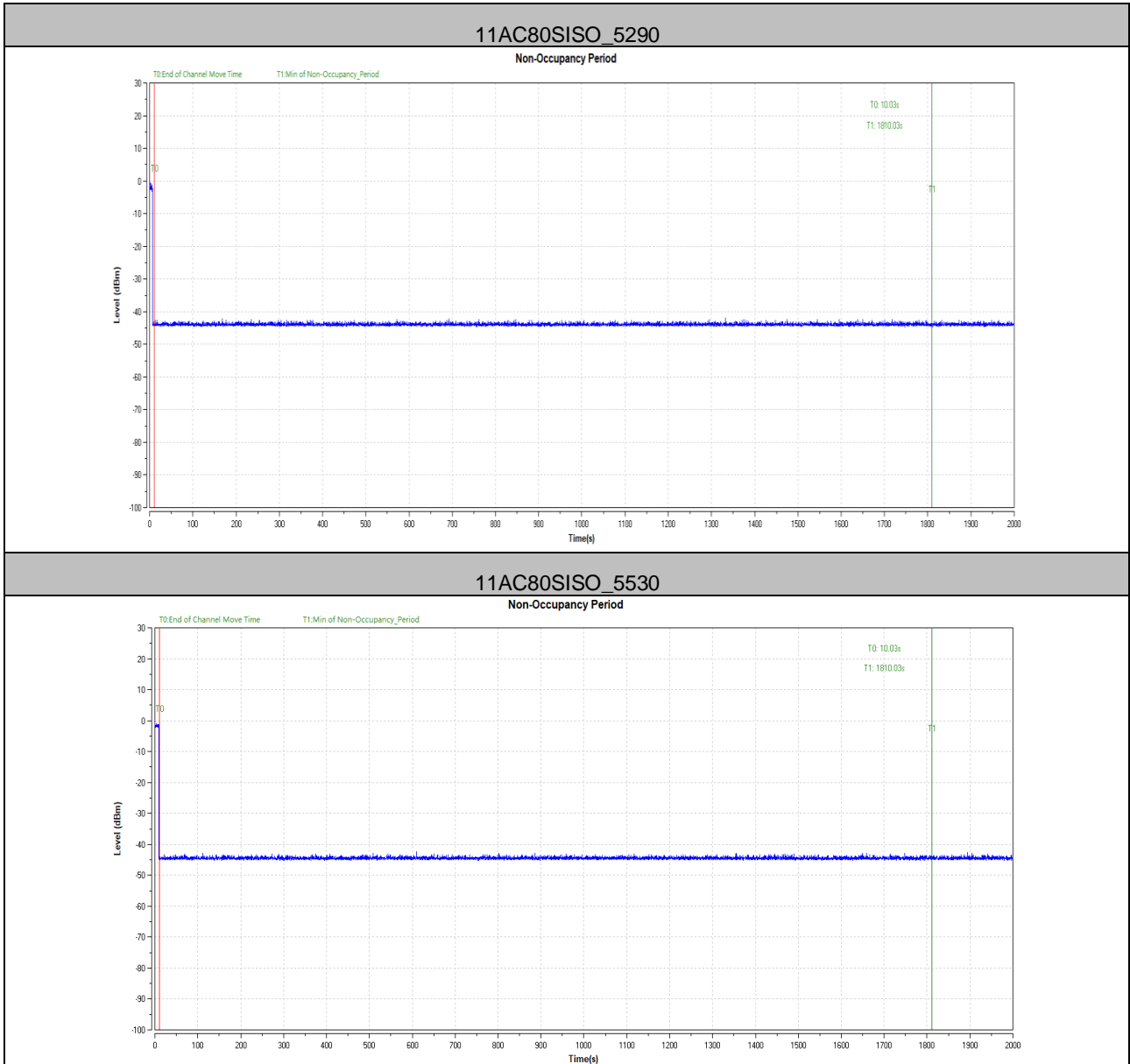
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4.12.4.4.2 Test Graphs



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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	2020/10/27	2021/10/27
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

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	2020/10/17	2023/10/16
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	2020/10/20	2021/10/19



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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/B0030.

The End

