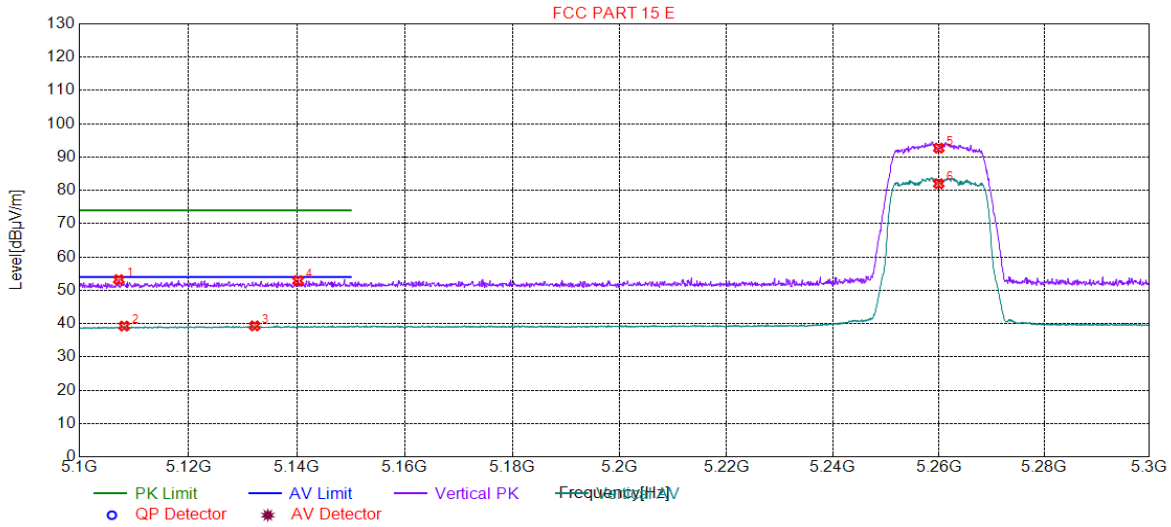


4.10.1.54 802.11AC20_Channel 52

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5107.20	53.21	15.15	74.00	20.79	150	358	Vertical
2	5108.20	39.28	15.16	54.00	14.72	150	332	Vertical
3	5132.21	39.34	15.37	54.00	14.66	150	243	Vertical
4	5140.22	52.90	15.44	74.00	21.10	150	16	Vertical
5	5260.00	92.71	15.51	0.00	-92.71	150	125	Vertical
6	5260.00	82.00	15.51	0.00	-82.00	150	125	Vertical

Final Data List

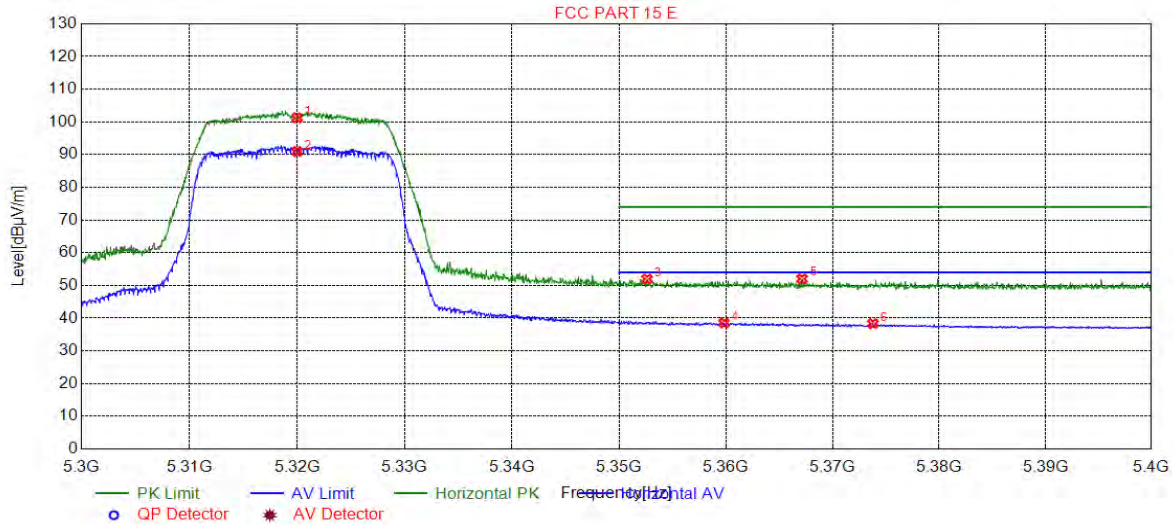


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4.10.1.55 802.11AC20_Channel 64

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	101.28	15.80	0.00	-101.28	150	11	Horizontal
2	5320.00	90.95	15.80	0.00	-90.95	150	11	Horizontal
3	5352.62	51.99	15.96	74.00	22.01	150	11	Horizontal
4	5359.82	38.51	16.00	54.00	15.49	150	11	Horizontal
5	5367.13	52.03	16.05	74.00	21.97	150	345	Horizontal
6	5373.78	38.34	16.09	54.00	15.66	150	11	Horizontal

Final Data List

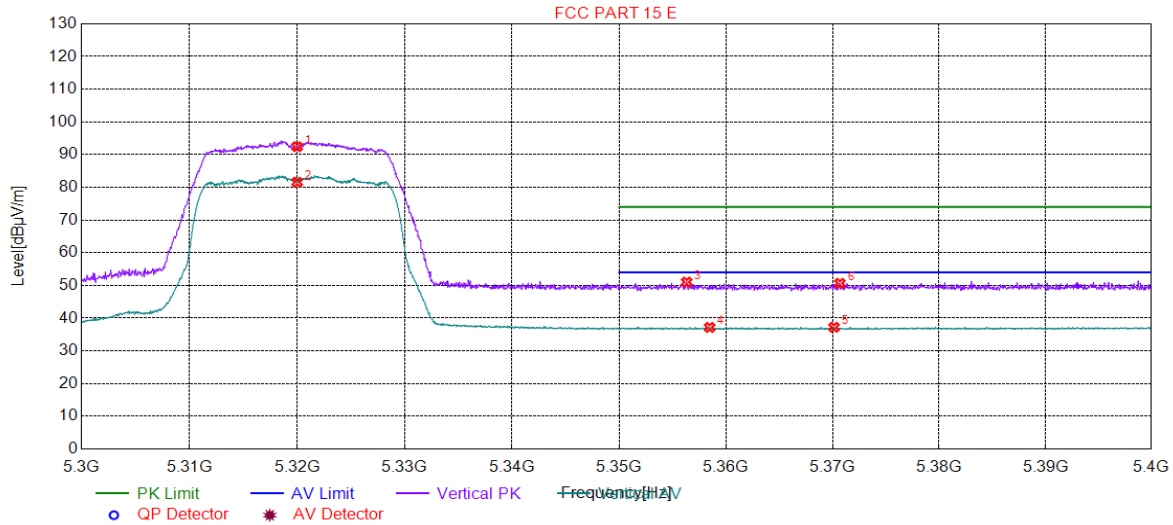


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4.10.1.56 802.11AC20_Channel 64

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	92.43	15.80	0.00	-92.43	150	199	Vertical
2	5320.00	81.58	15.80	0.00	-81.58	150	192	Vertical
3	5356.32	51.04	15.98	74.00	22.96	150	138	Vertical
4	5358.47	37.17	15.99	54.00	16.83	150	158	Vertical
5	5370.13	37.23	16.06	54.00	16.77	150	124	Vertical
6	5370.68	50.66	16.07	74.00	23.34	150	340	Vertical

Final Data List

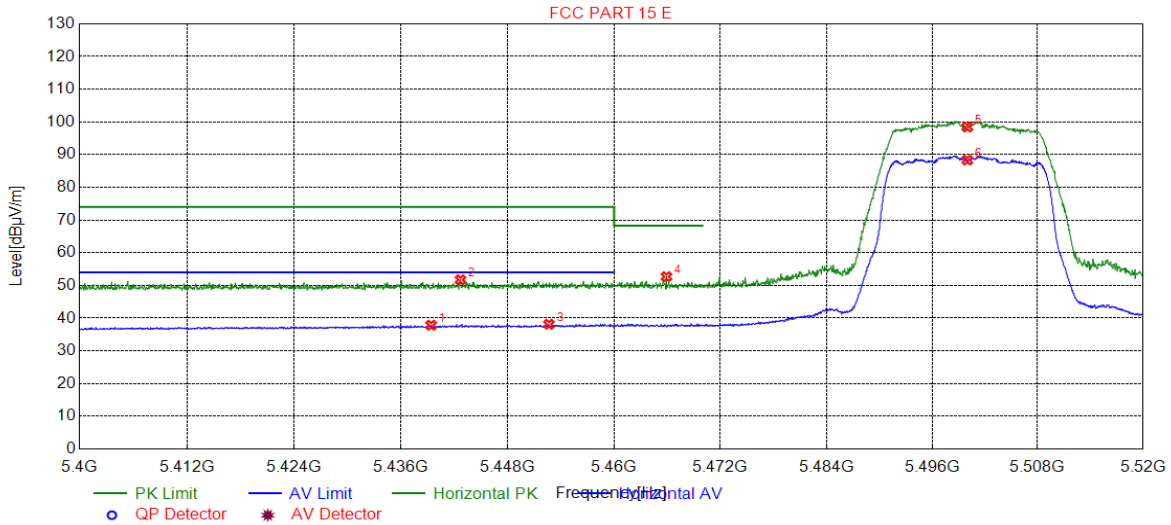


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4.10.1.57 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5439.37	37.87	16.25	54.00	16.13	150	15	Horizontal
2	5442.68	51.75	16.25	74.00	22.25	150	1	Horizontal
3	5452.64	38.15	16.25	54.00	15.85	150	346	Horizontal
4	5465.91	52.70	16.25	68.30	15.60	150	346	Horizontal
5	5500.00	98.45	16.25	0.00	-98.45	150	346	Horizontal
6	5500.00	88.35	16.25	0.00	-88.35	150	346	Horizontal

Final Data List

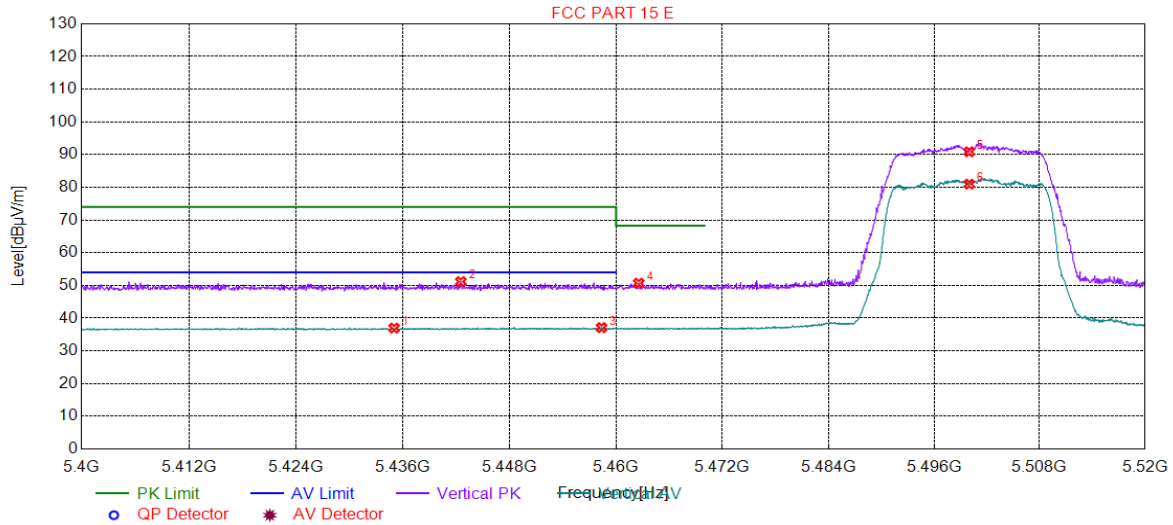


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4.10.1.58 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5434.99	36.98	16.25	54.00	17.02	150	220	Vertical
2	5442.50	51.18	16.25	74.00	22.82	150	95	Vertical
3	5458.34	37.12	16.25	54.00	16.88	150	95	Vertical
4	5462.55	50.69	16.25	68.30	17.61	150	360	Vertical
5	5500.00	90.88	16.25	0.00	-90.88	150	100	Vertical
6	5500.00	80.99	16.25	0.00	-80.99	150	138	Vertical

Final Data List

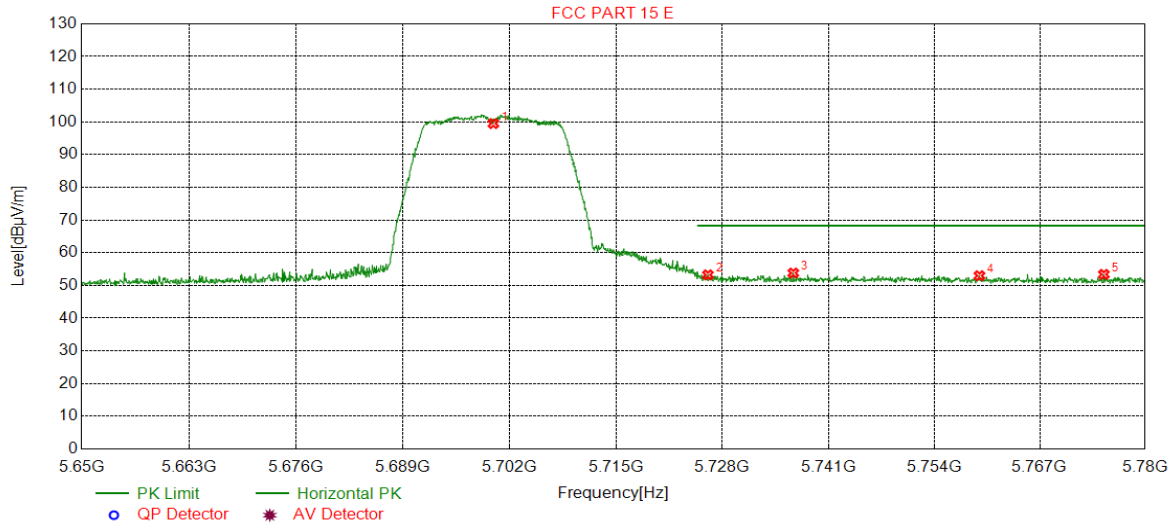


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4.10.1.59 802.11AC20_Channel 140

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	99.50	16.80	0.00	-99.50	150	336	Horizontal
2	5726.21	53.25	16.97	68.30	15.05	150	15	Horizontal
3	5736.68	53.81	17.03	68.30	14.49	150	15	Horizontal
4	5759.57	52.99	17.13	68.30	15.31	150	345	Horizontal
5	5774.92	53.40	17.15	68.30	14.90	150	345	Horizontal

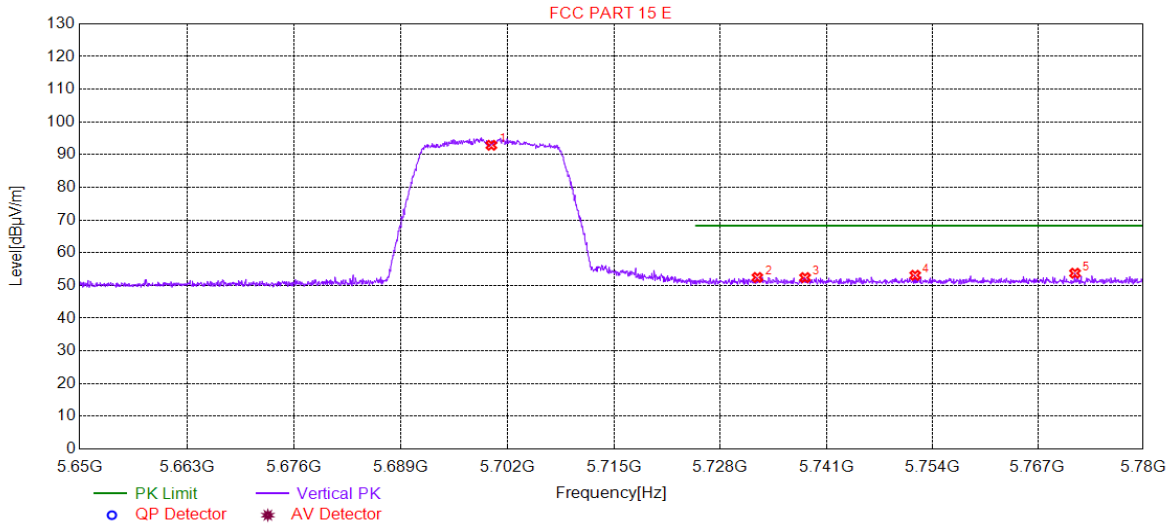
Final Data List



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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	92.87	16.80	0.00	-92.87	150	137	Vertical
2	5732.52	52.46	17.01	68.30	15.84	150	179	Vertical
3	5738.37	52.41	17.05	68.30	15.89	150	110	Vertical
4	5751.90	53.11	17.12	68.30	15.19	150	160	Vertical
5	5771.61	53.75	17.15	68.30	14.55	150	137	Vertical

Final Data List

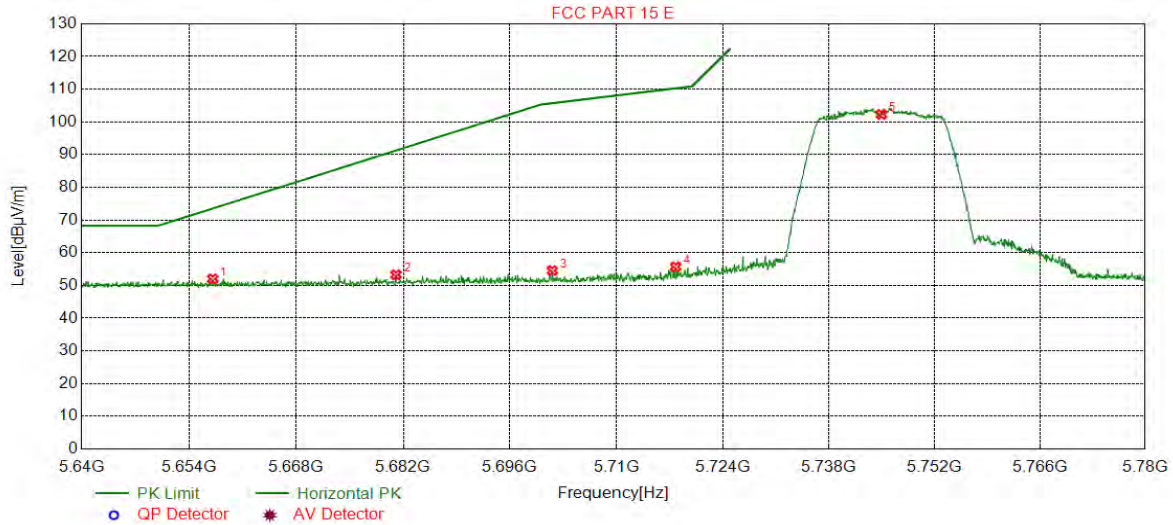


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4.10.1.61 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5657.08	52.02	16.57	73.55	21.53	150	344	Horizontal
2	5681.04	53.28	16.70	91.27	37.99	150	344	Horizontal
3	5701.56	54.58	16.81	105.74	51.16	150	14	Horizontal
4	5717.80	55.73	16.91	110.29	54.56	150	344	Horizontal
5	5745.00	102.31	17.09	0.00	-102.31	150	14	Horizontal

Final Data List

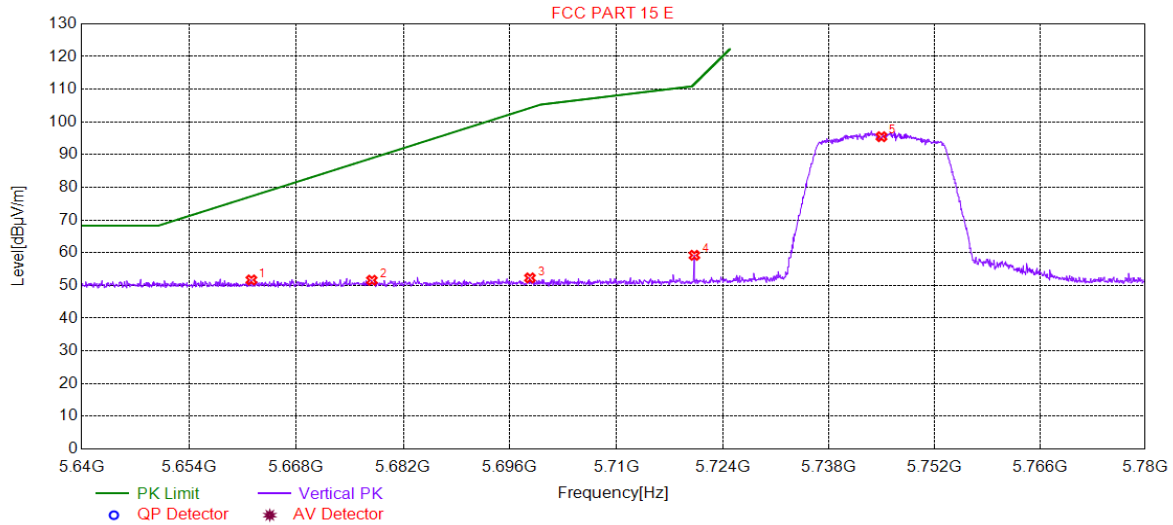


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4.10.1.62 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5662.13	51.70	16.60	77.28	25.58	150	162	Vertical
2	5677.88	51.60	16.68	88.94	37.34	150	300	Vertical
3	5698.61	52.31	16.79	104.28	51.97	150	333	Vertical
4	5720.26	59.23	16.93	111.49	52.26	150	231	Vertical
5	5745.00	95.49	17.09	0.00	-95.49	150	190	Vertical

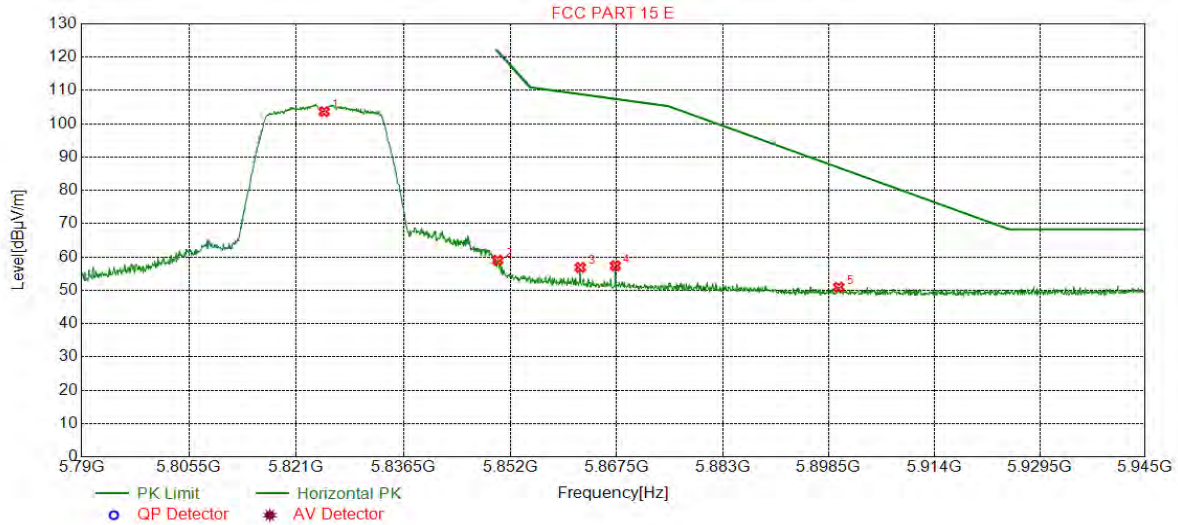
Final Data List



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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	103.65	17.23	0.00	-103.65	150	345	Horizontal
2	5850.17	59.02	17.26	121.91	62.89	150	14	Horizontal
3	5862.18	56.86	17.22	108.89	52.03	150	216	Horizontal
4	5867.30	57.40	17.21	107.45	50.05	150	267	Horizontal
5	5899.95	50.98	17.11	86.84	35.86	150	14	Horizontal

Final Data List

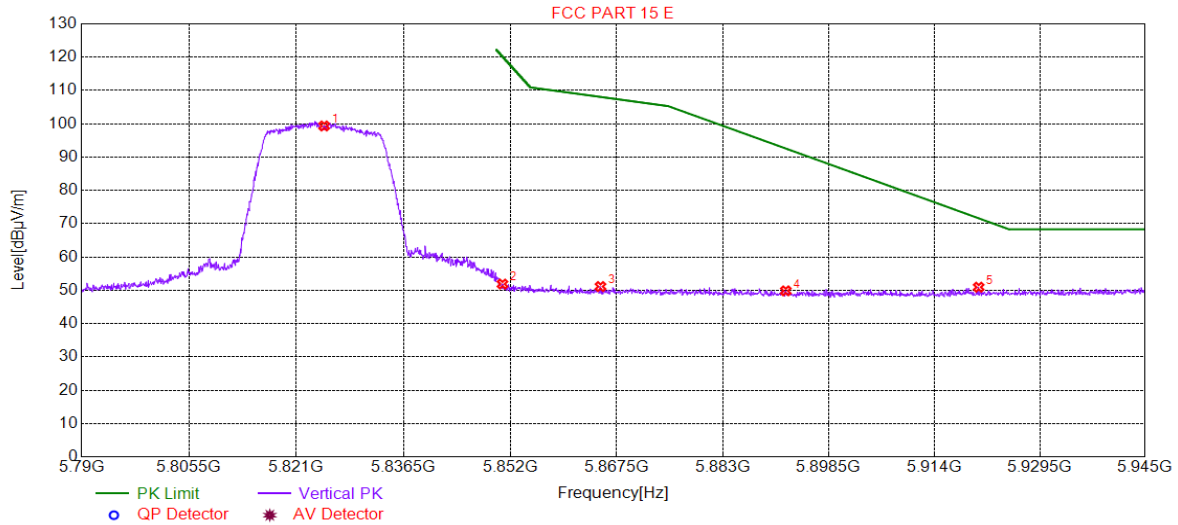


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4.10.1.64 802.11AC20_Channel 165

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	99.34	17.23	0.00	-99.34	150	136	Vertical
2	5850.86	51.90	17.26	120.32	68.42	150	140	Vertical
3	5865.13	51.15	17.21	108.06	56.91	150	242	Vertical
4	5892.19	49.85	17.13	92.57	42.72	150	316	Vertical
5	5920.49	50.96	17.43	71.63	20.67	150	98	Vertical

Final Data List

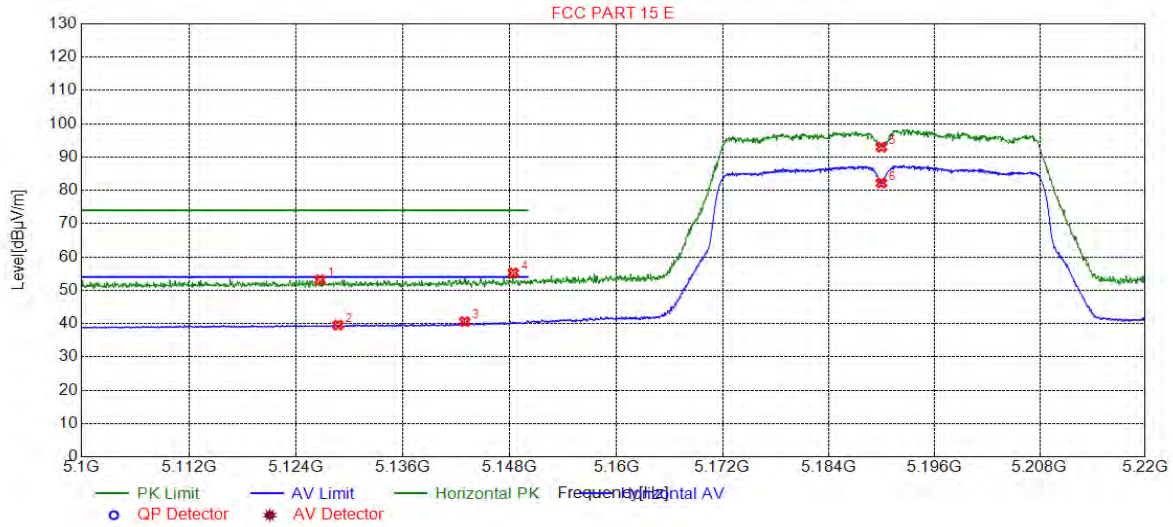


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4.10.1.65 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.65	53.12	15.32	74.00	20.88	150	258	Horizontal
2	5128.69	39.58	15.34	54.00	14.42	150	6	Horizontal
3	5142.92	40.62	15.46	54.00	13.38	150	6	Horizontal
4	5148.38	55.23	15.51	74.00	18.77	150	12	Horizontal
5	5190.00	93.00	15.58	0.00	-93.00	150	12	Horizontal
6	5190.00	82.22	15.58	0.00	-82.22	150	12	Horizontal

Final Data List

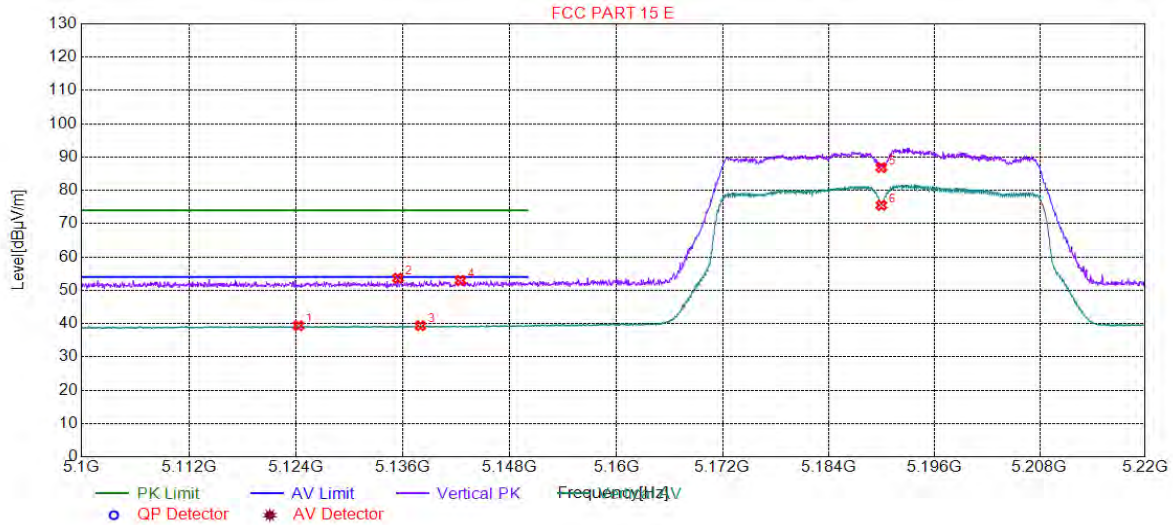


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4.10.1.66 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5124.25	39.39	15.30	54.00	14.61	150	260	Vertical
2	5135.41	53.68	15.39	74.00	20.32	150	79	Vertical
3	5137.93	39.37	15.42	54.00	14.63	150	205	Vertical
4	5142.44	52.97	15.45	74.00	21.03	150	184	Vertical
5	5190.00	86.88	15.58	0.00	-86.88	150	129	Vertical
6	5190.00	75.53	15.58	0.00	-75.53	150	123	Vertical

Final Data List

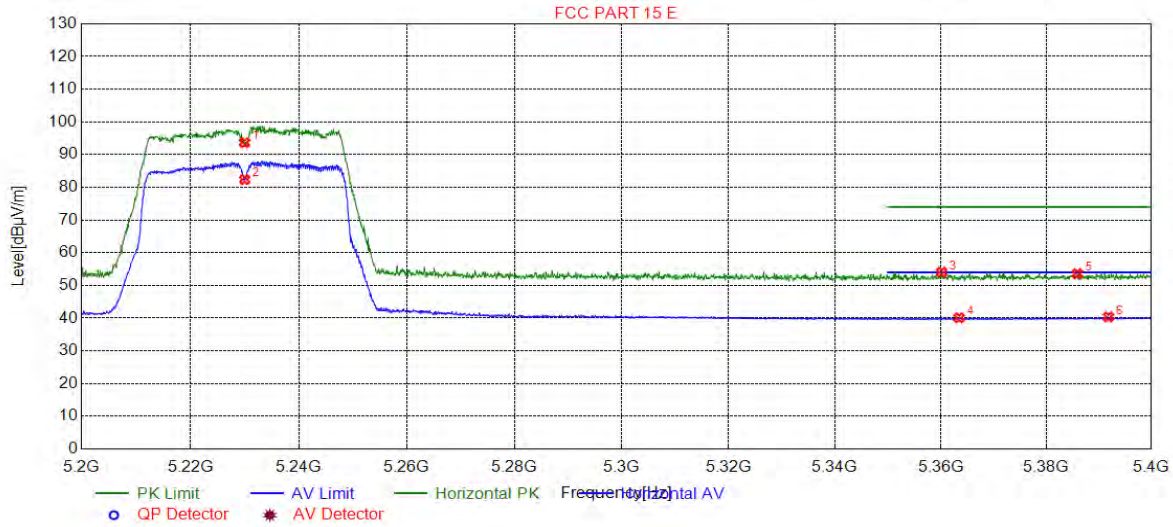


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4.10.1.67 802.11AC40_Channel 46

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	93.66	15.51	0.00	-93.66	150	10	Horizontal
2	5230.00	82.37	15.51	0.00	-82.37	150	10	Horizontal
3	5360.18	54.07	16.00	74.00	19.93	150	325	Horizontal
4	5363.48	40.13	16.02	54.00	13.87	150	127	Horizontal
5	5385.89	53.58	16.16	74.00	20.42	150	291	Horizontal
6	5391.79	40.40	16.20	54.00	13.60	150	332	Horizontal

Final Data List



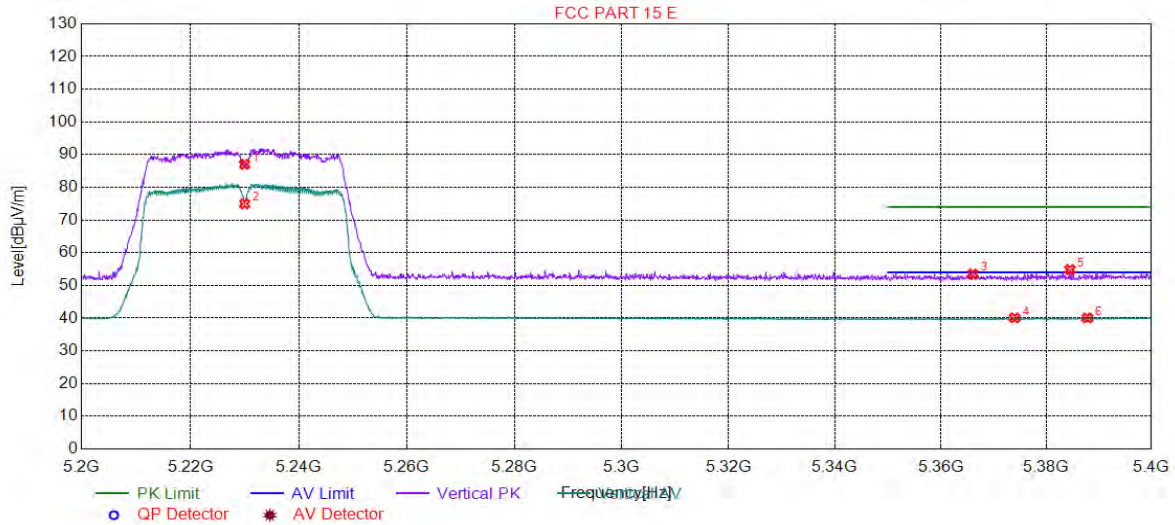
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4.10.1.68 802.11AC40_Channel 46

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	87.05	15.51	0.00	-87.05	150	125	Vertical
2	5230.00	74.97	15.51	0.00	-74.97	150	194	Vertical
3	5366.08	53.51	16.04	74.00	20.49	150	104	Vertical
4	5373.98	40.08	16.09	54.00	13.92	150	201	Vertical
5	5384.49	54.86	16.15	74.00	19.14	150	125	Vertical
6	5387.79	40.08	16.17	54.00	13.92	150	331	Vertical

Final Data List



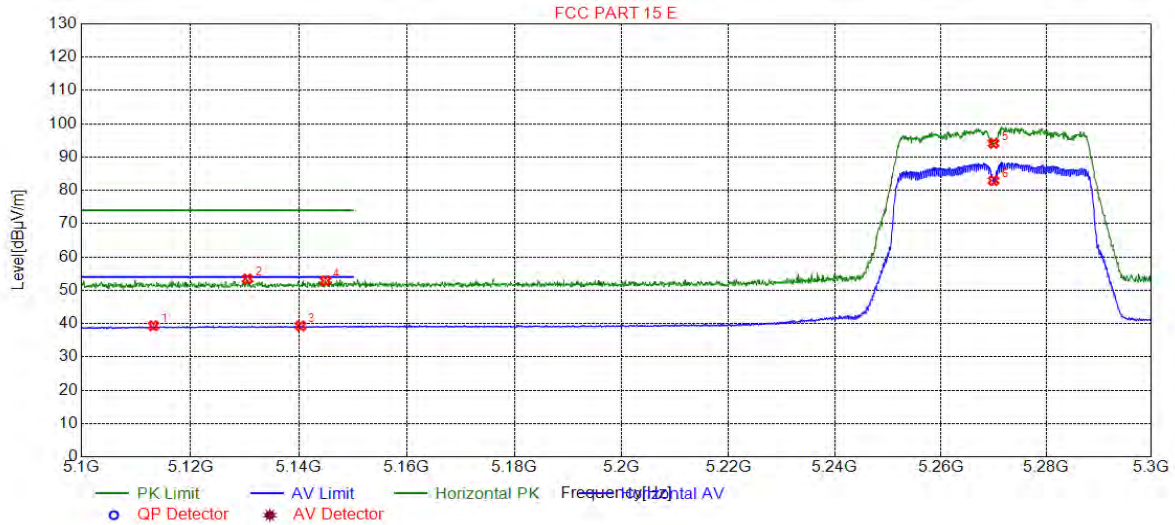
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4.10.1.69 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.20	39.37	15.20	54.00	14.63	150	324	Horizontal
2	5130.51	53.45	15.35	74.00	20.55	150	66	Horizontal
3	5140.32	39.35	15.44	54.00	14.65	150	344	Horizontal
4	5144.92	52.86	15.48	74.00	21.14	150	257	Horizontal
5	5270.00	94.14	15.56	0.00	-94.14	150	11	Horizontal
6	5270.00	82.95	15.56	0.00	-82.95	150	11	Horizontal

Final Data List

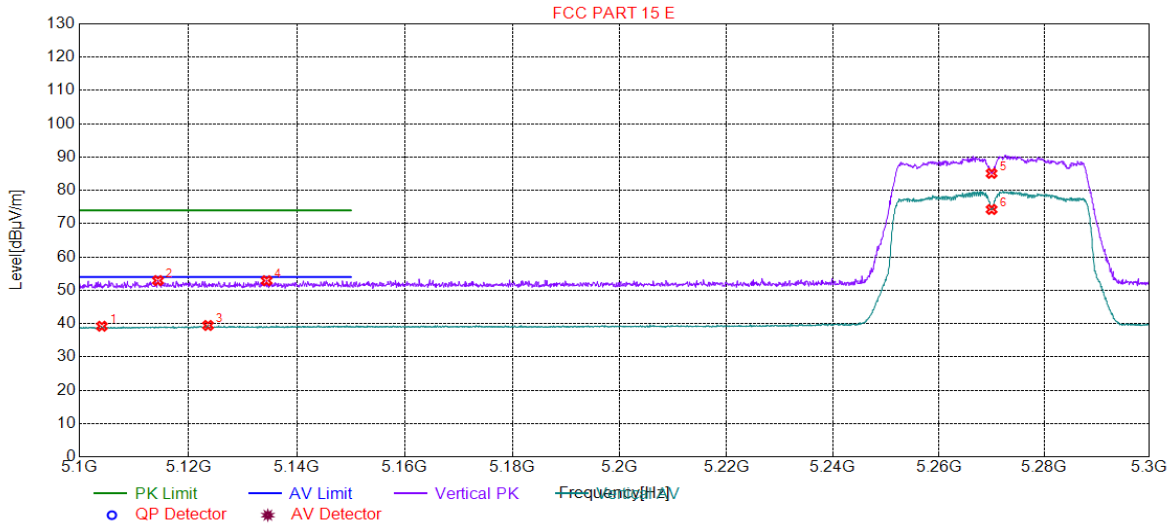


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4.10.1.70 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5104.10	39.24	15.13	54.00	14.76	150	187	Vertical
2	5114.40	52.94	15.21	74.00	21.06	150	352	Vertical
3	5123.61	39.47	15.29	54.00	14.53	150	56	Vertical
4	5134.41	52.91	15.39	74.00	21.09	150	263	Vertical
5	5270.00	85.10	15.56	0.00	-85.10	150	132	Vertical
6	5270.00	74.28	15.56	0.00	-74.28	150	125	Vertical

Final Data List

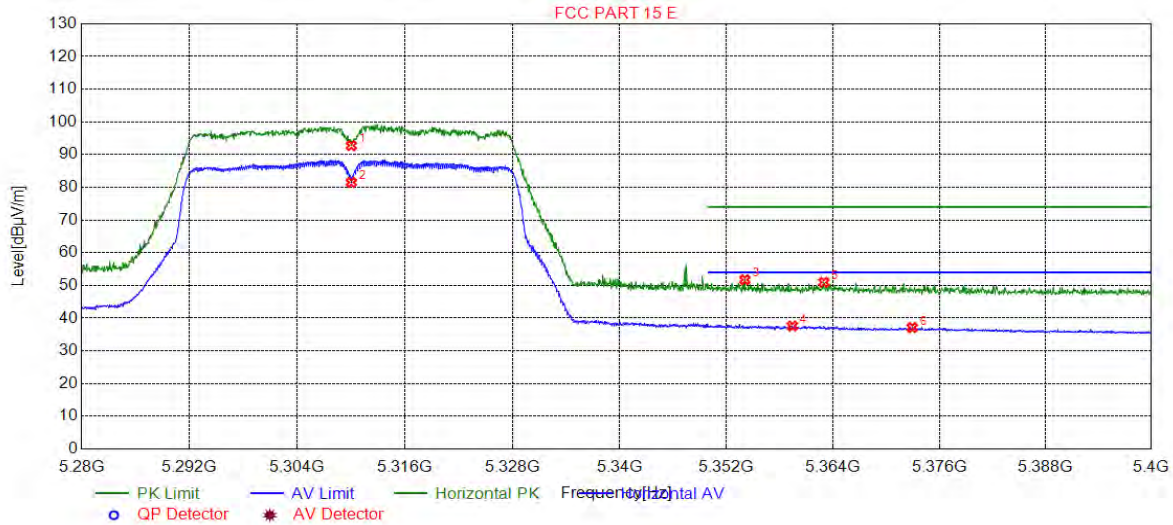


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4.10.1.71 802.11AC40_Channel 62

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	92.77	15.75	0.00	-92.77	150	9	Horizontal
2	5310.00	81.52	15.75	0.00	-81.52	150	9	Horizontal
3	5354.07	51.75	15.97	74.00	22.25	150	9	Horizontal
4	5359.41	37.61	16.00	54.00	16.39	150	9	Horizontal
5	5362.96	50.97	16.02	74.00	23.03	150	345	Horizontal
6	5372.92	37.12	16.08	54.00	16.88	150	15	Horizontal

Final Data List

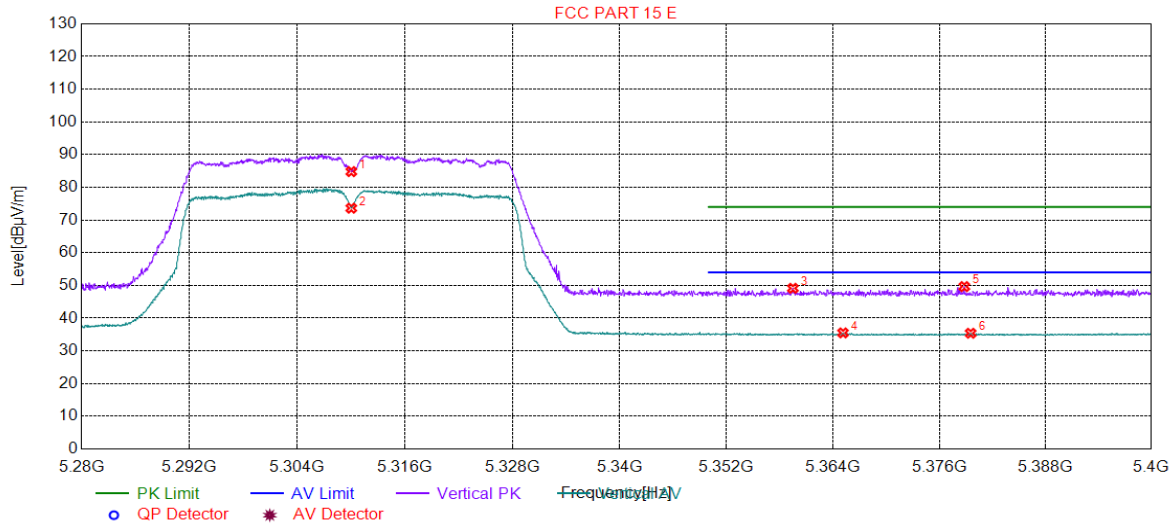


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4.10.1.72 802.11AC40_Channel 62

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	84.82	15.75	0.00	-84.82	150	125	Vertical
2	5310.00	73.64	15.75	0.00	-73.64	150	195	Vertical
3	5359.47	49.15	16.00	74.00	24.85	150	77	Vertical
4	5365.12	35.51	16.03	54.00	18.49	150	160	Vertical
5	5378.80	49.66	16.12	74.00	24.34	150	325	Vertical
6	5379.52	35.40	16.12	54.00	18.60	150	195	Vertical

Final Data List

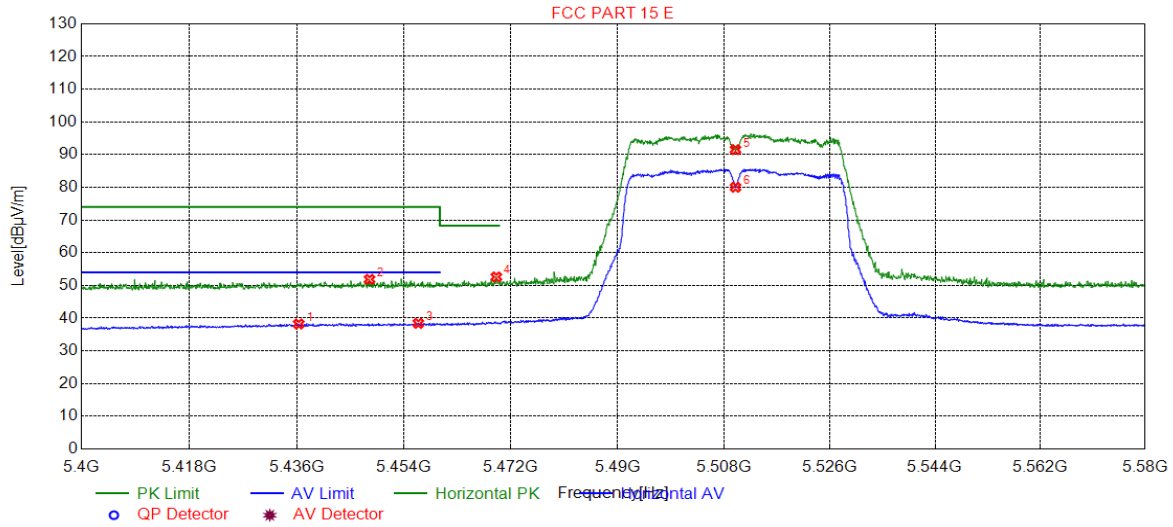


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4.10.1.73 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5436.28	38.23	16.25	54.00	15.77	150	15	Horizontal
2	5448.17	51.88	16.25	74.00	22.12	150	345	Horizontal
3	5456.36	38.43	16.25	54.00	15.57	150	345	Horizontal
4	5469.51	52.62	16.25	68.30	15.68	150	338	Horizontal
5	5510.00	91.54	16.28	0.00	-91.54	150	8	Horizontal
6	5510.00	80.02	16.28	0.00	-80.02	150	15	Horizontal

Final Data List

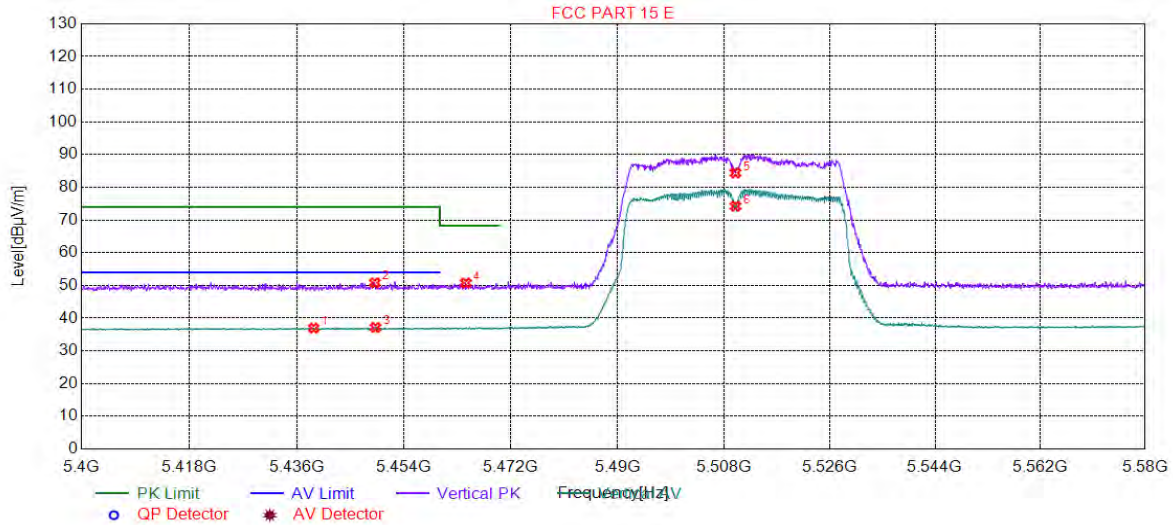


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4.10.1.74 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5438.80	37.00	16.25	54.00	17.00	150	165	Vertical
2	5449.07	50.84	16.25	74.00	23.16	150	16	Vertical
3	5449.16	37.16	16.25	54.00	16.84	150	96	Vertical
4	5464.38	50.78	16.25	68.30	17.52	150	213	Vertical
5	5510.00	84.42	16.28	0.00	-84.42	150	137	Vertical
6	5510.00	74.24	16.28	0.00	-74.24	150	137	Vertical

Final Data List

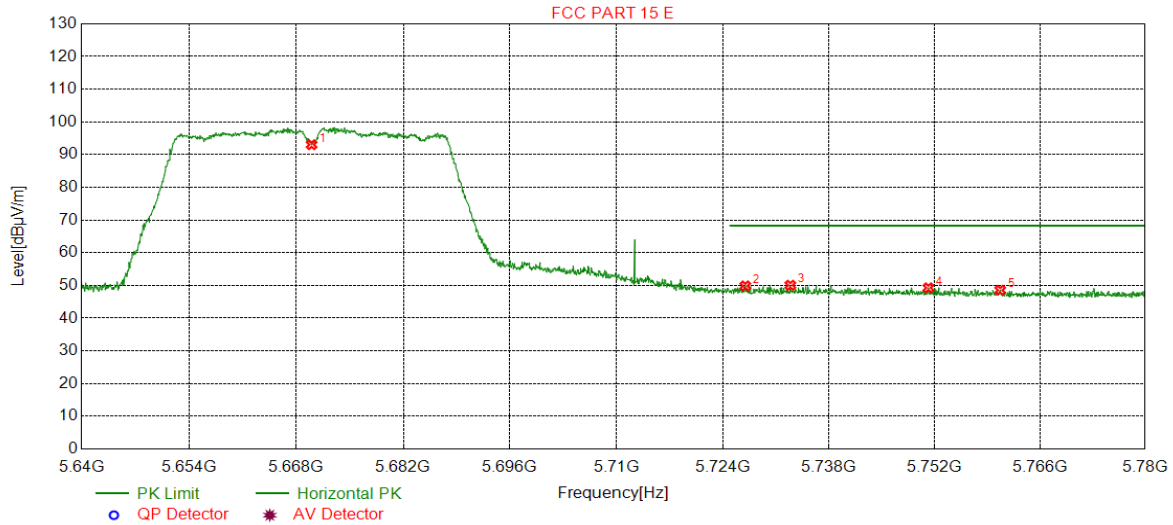


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4.10.1.75 802.11AC40_Channel 134

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	93.06	16.64	0.00	-93.06	150	345	Horizontal
2	5726.98	49.86	16.97	68.30	18.44	150	345	Horizontal
3	5732.93	50.07	17.01	68.30	18.23	150	345	Horizontal
4	5751.21	49.29	17.12	68.30	19.01	150	16	Horizontal
5	5760.74	48.56	17.14	68.30	19.74	150	323	Horizontal

Final Data List

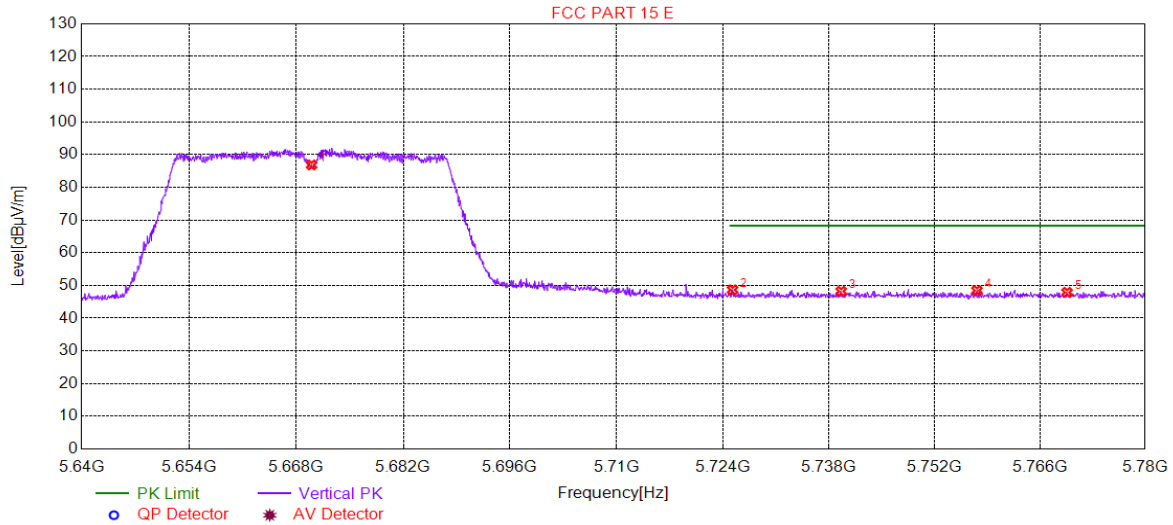


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4.10.1.76 802.11AC40_Channel 134

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	86.86	16.64	0.00	-86.86	150	142	Vertical
2	5725.30	48.67	16.96	68.30	19.63	150	80	Vertical
3	5739.65	48.21	17.05	68.30	20.09	150	80	Vertical
4	5757.65	48.47	17.13	68.30	19.83	150	210	Vertical
5	5769.63	47.90	17.15	68.30	20.40	150	151	Vertical

Final Data List

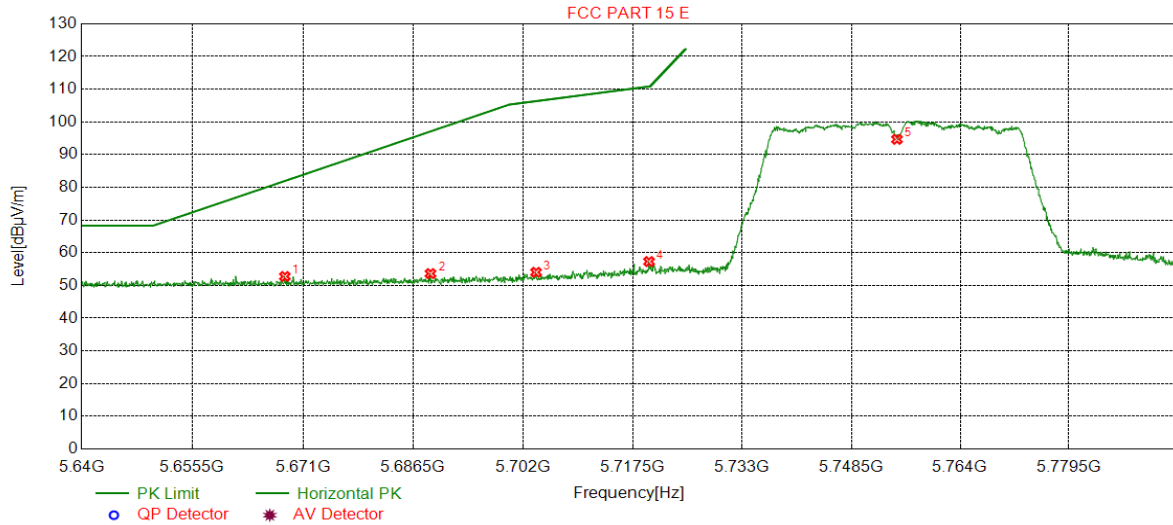


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4.10.1.77 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5668.45	52.76	16.63	81.96	29.20	150	326	Horizontal
2	5688.92	53.64	16.74	97.11	43.47	150	344	Horizontal
3	5703.81	54.04	16.82	106.37	52.33	150	344	Horizontal
4	5719.78	57.32	16.93	110.84	53.52	150	344	Horizontal
5	5755.00	94.69	17.13	0.00	-94.69	150	344	Horizontal

Final Data List

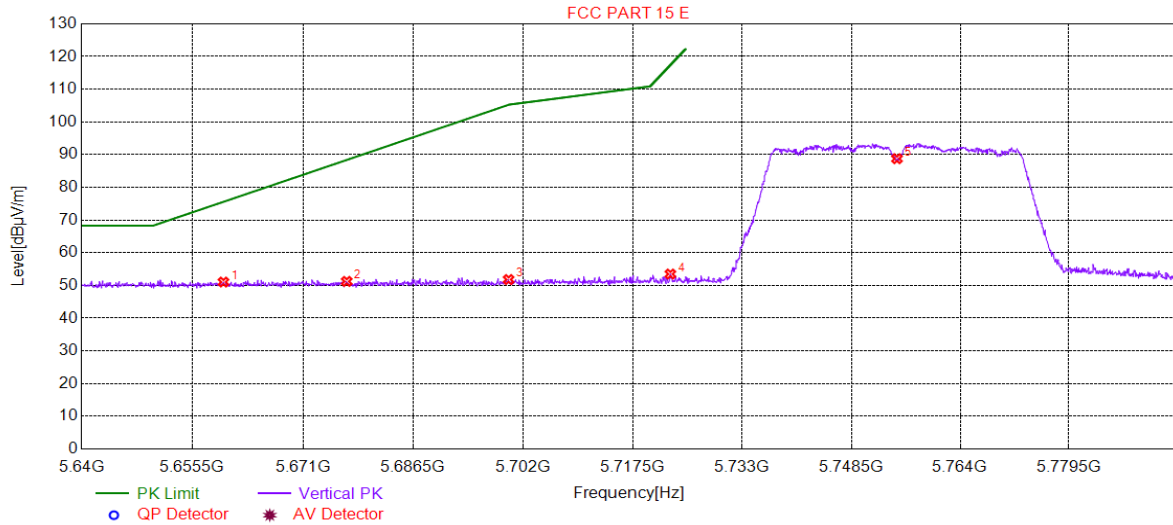


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4.10.1.78 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5659.84	51.05	16.58	75.59	24.54	150	61	Vertical
2	5677.14	51.25	16.68	88.38	37.13	150	98	Vertical
3	5699.93	51.82	16.80	105.25	53.43	150	29	Vertical
4	5722.81	53.50	16.95	117.31	63.81	150	193	Vertical
5	5755.00	88.77	17.13	0.00	-88.77	150	188	Vertical

Final Data List

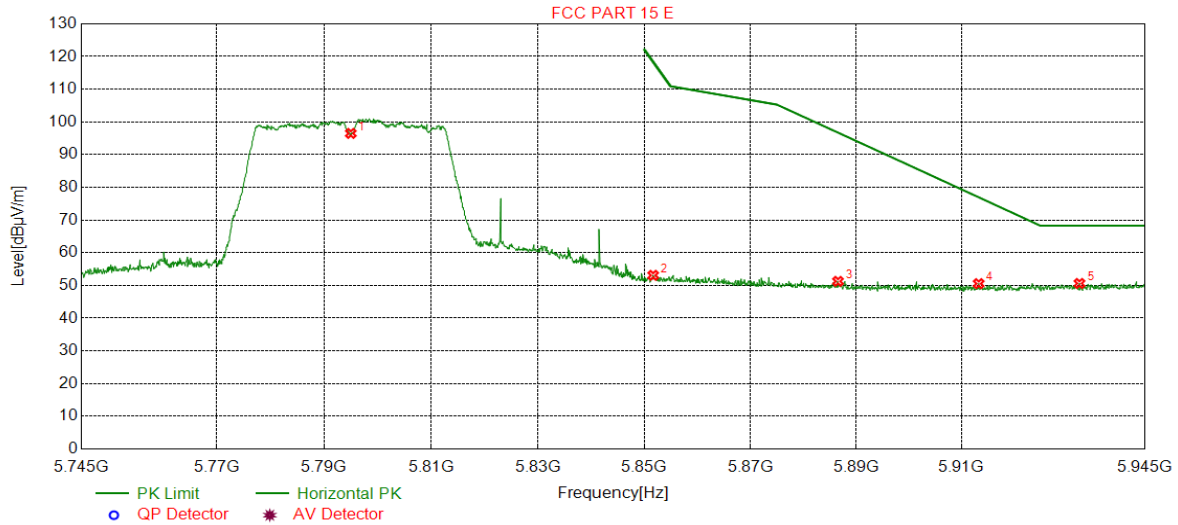


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4.10.1.79 802.11AC40_Channel 159

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	96.50	17.18	0.00	-96.50	150	344	Horizontal
2	5851.65	53.11	17.26	118.53	65.42	150	12	Horizontal
3	5886.57	51.28	17.15	96.74	45.46	150	16	Horizontal
4	5913.28	50.57	17.31	76.97	26.40	150	344	Horizontal
5	5932.49	50.63	17.61	68.30	17.67	150	344	Horizontal

Final Data List

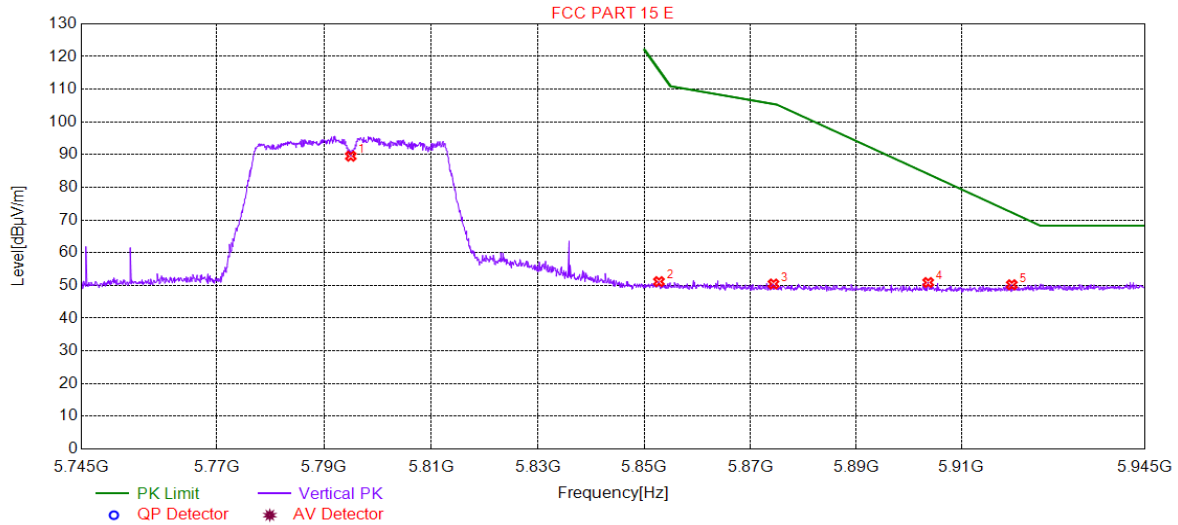


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4.10.1.80 802.11AC40_Channel 159

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	89.53	17.18	0.00	-89.53	150	136	Vertical
2	5852.75	51.19	17.25	116.02	64.83	150	57	Vertical
3	5874.36	50.46	17.19	105.48	55.02	150	89	Vertical
4	5903.67	50.92	17.17	84.08	33.16	150	264	Vertical
5	5919.58	50.23	17.41	72.31	22.08	150	20	Vertical

Final Data List

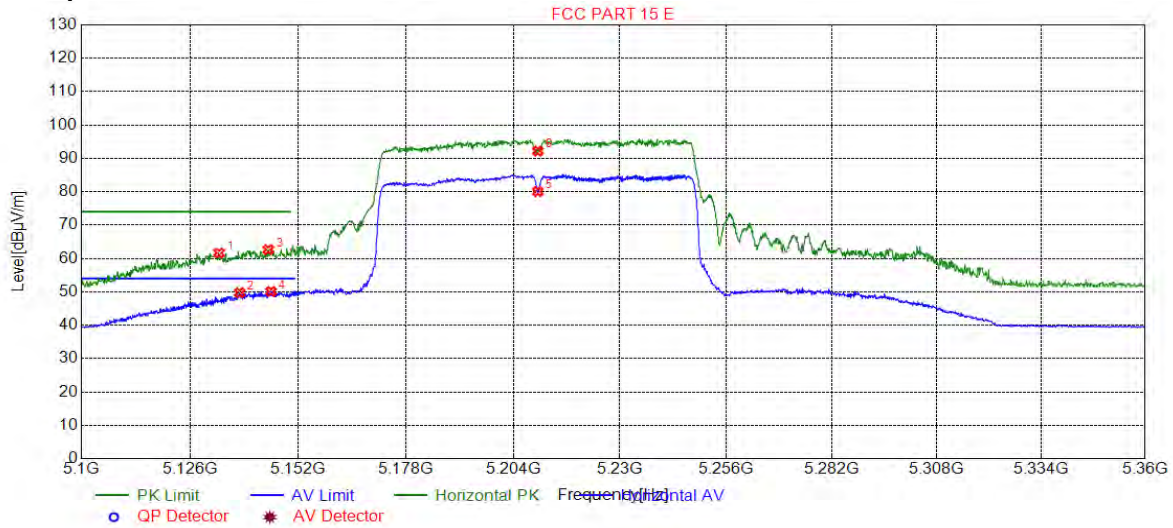


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4.10.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5132.90	61.67	15.37	74.00	12.33	150	0	Horizontal
2	5137.84	49.77	15.42	54.00	4.23	150	23	Horizontal
3	5144.74	62.66	15.47	74.00	11.34	150	23	Horizontal
4	5145.39	50.14	15.48	54.00	3.86	150	23	Horizontal
5	5210.00	80.07	15.56	0.00	-80.07	150	30	Horizontal
6	5210.00	92.19	15.56	0.00	-92.19	150	23	Horizontal

Final Data List



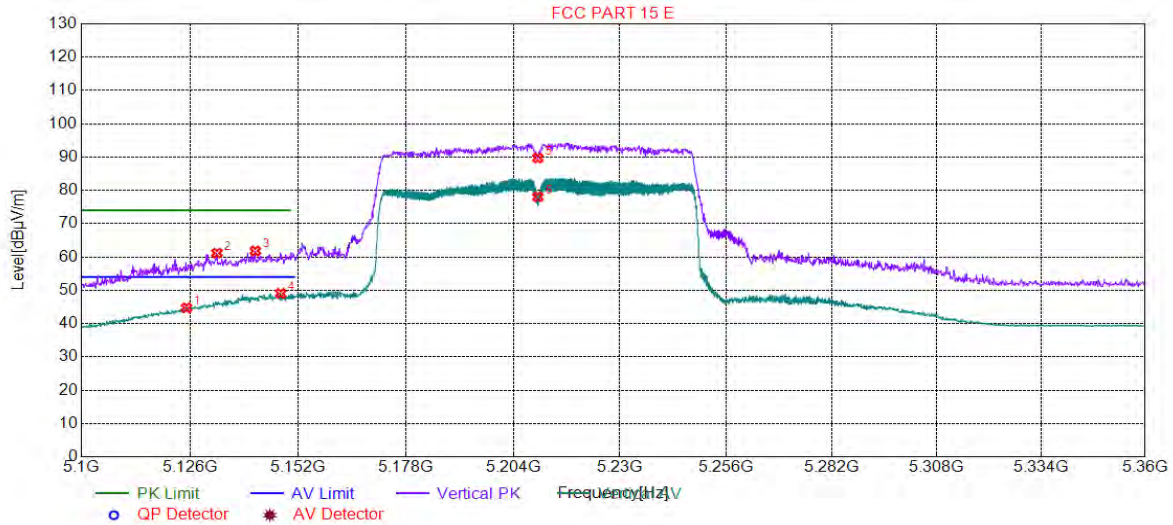
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4.10.1.82 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5125.10	44.77	15.31	54.00	9.23	150	123	Vertical
2	5132.38	61.20	15.37	74.00	12.80	150	123	Vertical
3	5141.62	61.83	15.45	74.00	12.17	150	123	Vertical
4	5147.73	49.06	15.50	54.00	4.94	150	123	Vertical
5	5210.00	89.71	15.56	0.00	-89.71	150	130	Vertical
6	5210.00	78.05	15.56	0.00	-78.05	150	123	Vertical

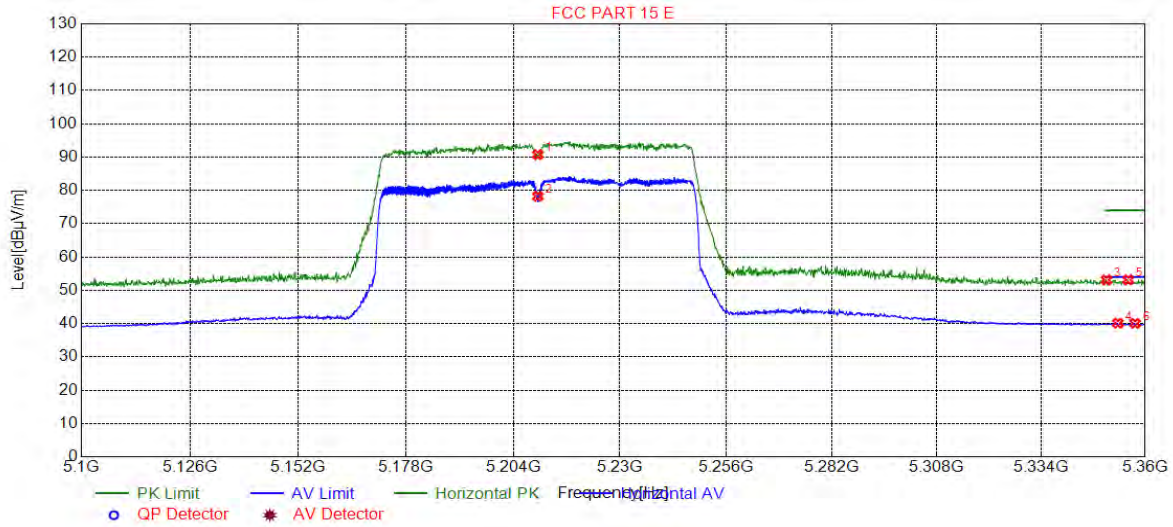
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4.10.1.83 802.11AC80_Channel 42

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	90.74	15.56	0.00	-90.74	150	11	Horizontal
2	5210.00	78.24	15.56	0.00	-78.24	150	11	Horizontal
3	5350.37	53.14	15.94	74.00	20.86	150	38	Horizontal
4	5353.23	40.15	15.96	54.00	13.85	150	93	Horizontal
5	5355.83	53.17	15.98	74.00	20.83	150	169	Horizontal
6	5357.52	40.09	15.99	54.00	13.91	150	32	Horizontal

Final Data List

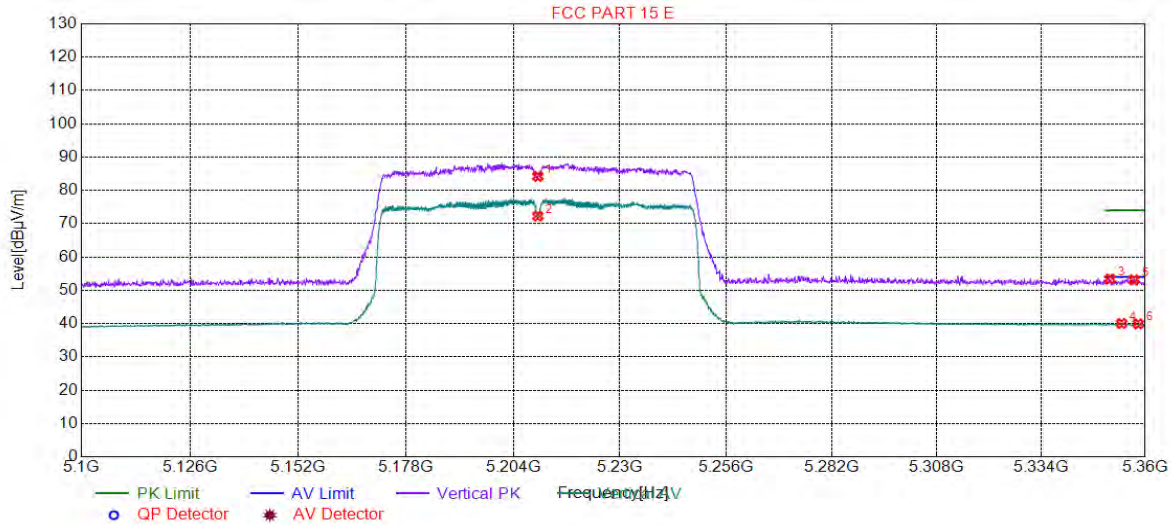


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4.10.1.84 802.11AC80_Channel 42

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	84.20	15.56	0.00	-84.20	150	131	Vertical
2	5210.00	72.29	15.56	0.00	-72.29	150	124	Vertical
3	5351.28	53.45	15.95	74.00	20.55	150	16	Vertical
4	5354.14	40.06	15.97	54.00	13.94	150	110	Vertical
5	5357.26	53.17	15.99	74.00	20.83	150	302	Vertical
6	5358.30	39.95	15.99	54.00	14.05	150	131	Vertical

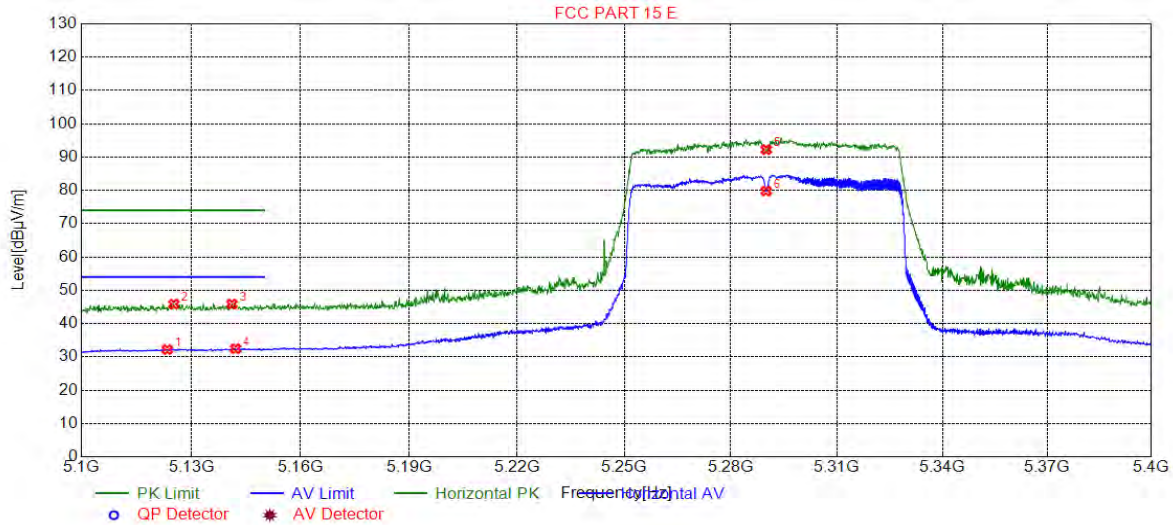
Final Data List



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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	5123.41	32.23	15.29	54.00	21.77	150	139	Horizontal
2	5125.21	45.86	15.31	74.00	28.14	150	291	Horizontal
3	5141.12	45.90	15.44	74.00	28.10	150	15	Horizontal
4	5142.17	32.49	15.45	54.00	21.51	150	8	Horizontal
5	5290.00	92.23	15.65	0.00	-92.23	150	8	Horizontal
6	5290.00	79.81	15.65	0.00	-79.81	150	8	Horizontal

Final Data List

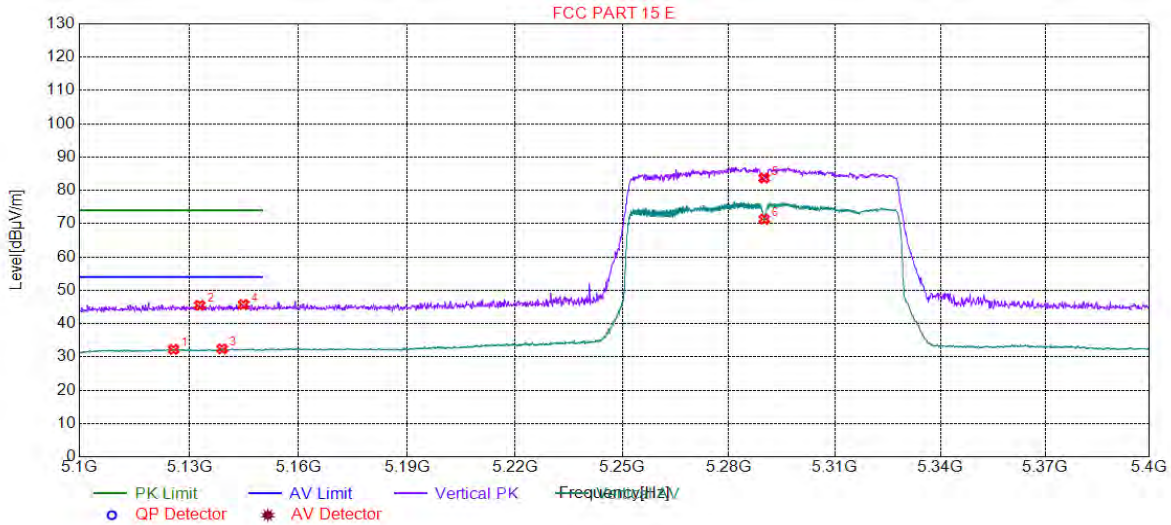


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4.10.1.86 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5125.66	32.27	15.31	54.00	21.73	150	97	Vertical
2	5132.86	45.52	15.37	74.00	28.48	150	312	Vertical
3	5139.01	32.46	15.43	54.00	21.54	150	235	Vertical
4	5144.87	45.75	15.48	74.00	28.25	150	83	Vertical
5	5290.00	83.71	15.65	0.00	-83.71	150	125	Vertical
6	5290.00	71.38	15.65	0.00	-71.38	150	125	Vertical

Final Data List



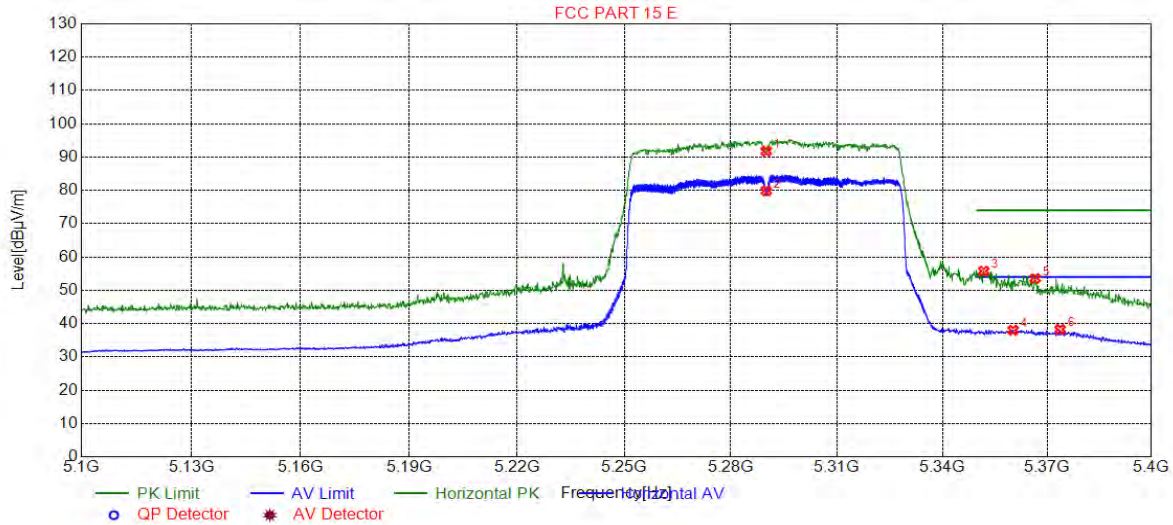
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4.10.1.87 802.11AC80_Channel 58

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	91.79	15.65	0.00	-91.79	150	9	Horizontal
2	5290.00	79.86	15.65	0.00	-79.86	150	9	Horizontal
3	5351.82	55.80	15.95	74.00	18.20	150	29	Horizontal
4	5360.23	38.03	16.00	54.00	15.97	150	16	Horizontal
5	5366.53	53.55	16.04	74.00	20.45	150	345	Horizontal
6	5373.73	38.28	16.09	54.00	15.72	150	16	Horizontal

Final Data List

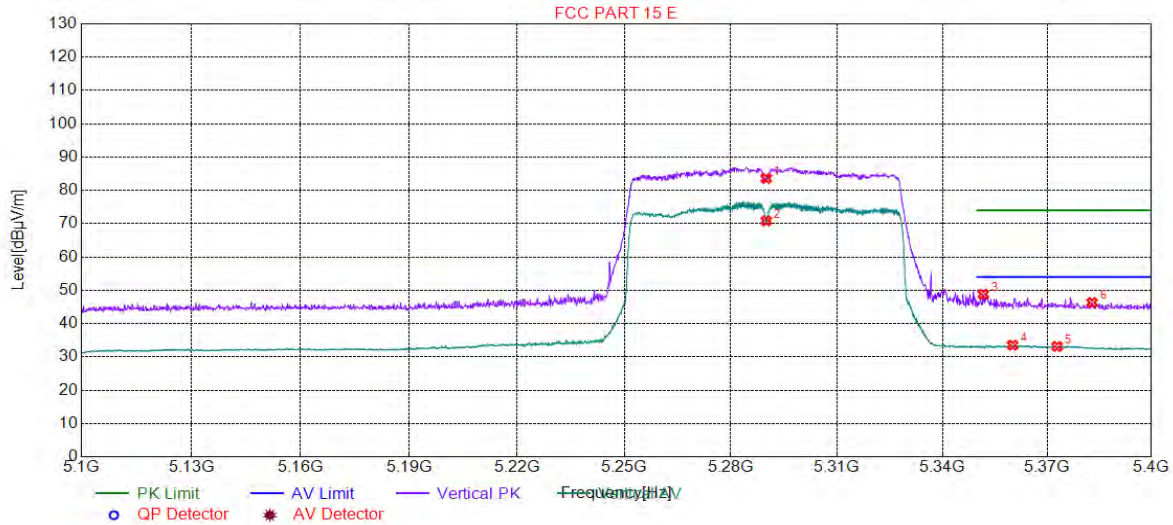


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4.10.1.88 802.11AC80_Channel 58

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	83.62	15.65	0.00	-83.62	150	125	Vertical
2	5290.00	70.85	15.65	0.00	-70.85	150	91	Vertical
3	5351.67	48.86	15.95	74.00	25.14	150	201	Vertical
4	5360.08	33.54	16.00	54.00	20.46	150	194	Vertical
5	5372.83	33.17	16.08	54.00	20.83	150	194	Vertical
6	5382.89	46.35	16.14	74.00	27.65	150	132	Vertical

Final Data List

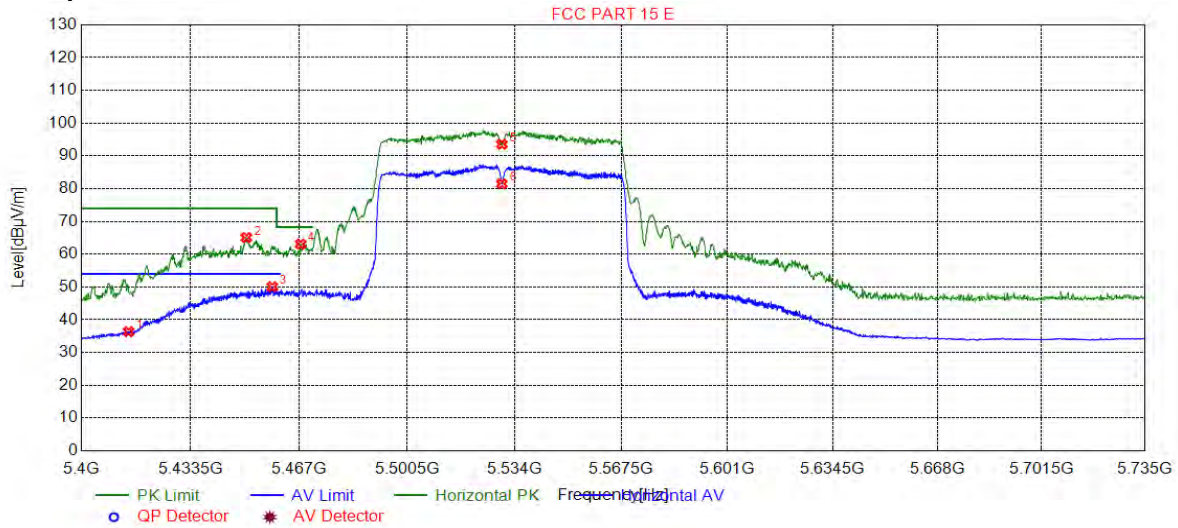


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4.10.1.89 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5414.41	36.37	16.25	54.00	17.63	150	10	Horizontal
2	5450.61	65.09	16.25	74.00	8.91	150	24	Horizontal
3	5458.65	50.09	16.25	54.00	3.91	150	30	Horizontal
4	5467.36	63.09	16.25	68.30	5.21	150	24	Horizontal
5	5530.00	93.56	16.35	0.00	-93.56	150	4	Horizontal
6	5530.00	81.48	16.35	0.00	-81.48	150	10	Horizontal

Final Data List



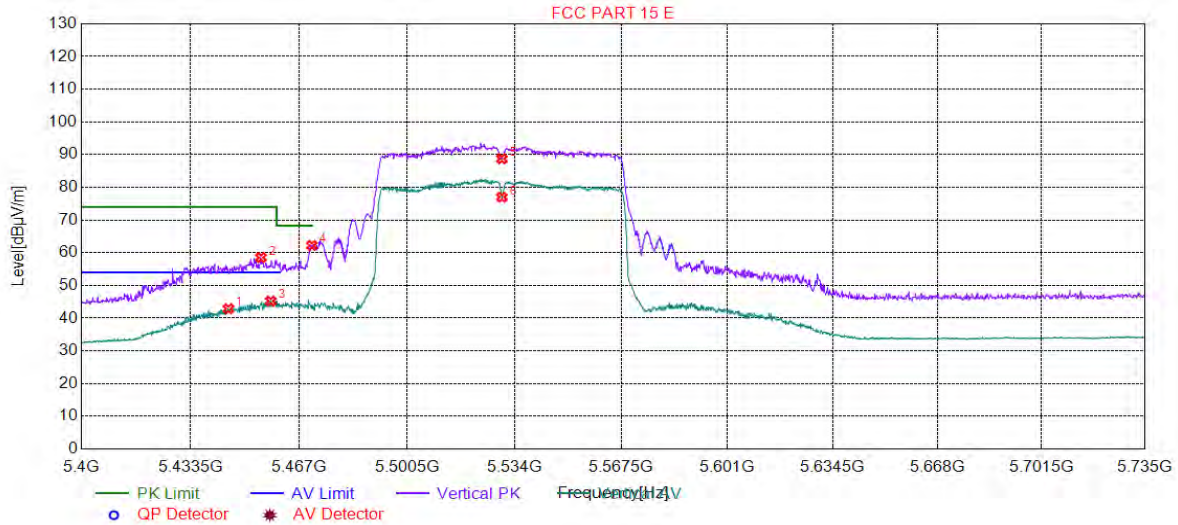
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4.10.1.90 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.08	42.90	16.25	54.00	11.10	150	104	Vertical
2	5455.13	58.55	16.25	74.00	15.45	150	112	Vertical
3	5458.15	45.23	16.25	54.00	8.77	150	104	Vertical
4	5470.88	62.25	16.25	68.30	6.05	150	112	Vertical
5	5530.00	88.73	16.35	0.00	-88.73	150	112	Vertical
6	5530.00	76.98	16.35	0.00	-76.98	150	112	Vertical

Final Data List

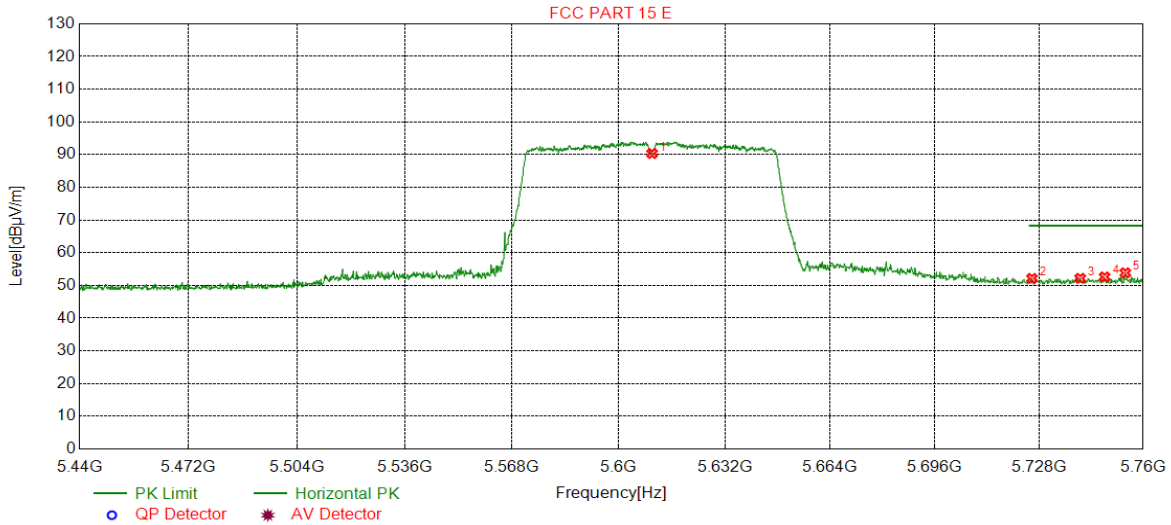


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4.10.1.91 802.11AC80_Channel 122

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	90.36	16.58	0.00	-90.36	150	344	Horizontal
2	5725.74	52.16	16.96	68.30	16.14	150	239	Horizontal
3	5740.63	52.19	17.06	68.30	16.11	150	318	Horizontal
4	5748.15	52.62	17.11	68.30	15.68	150	78	Horizontal
5	5754.55	53.86	17.13	68.30	14.44	150	170	Horizontal

Final Data List

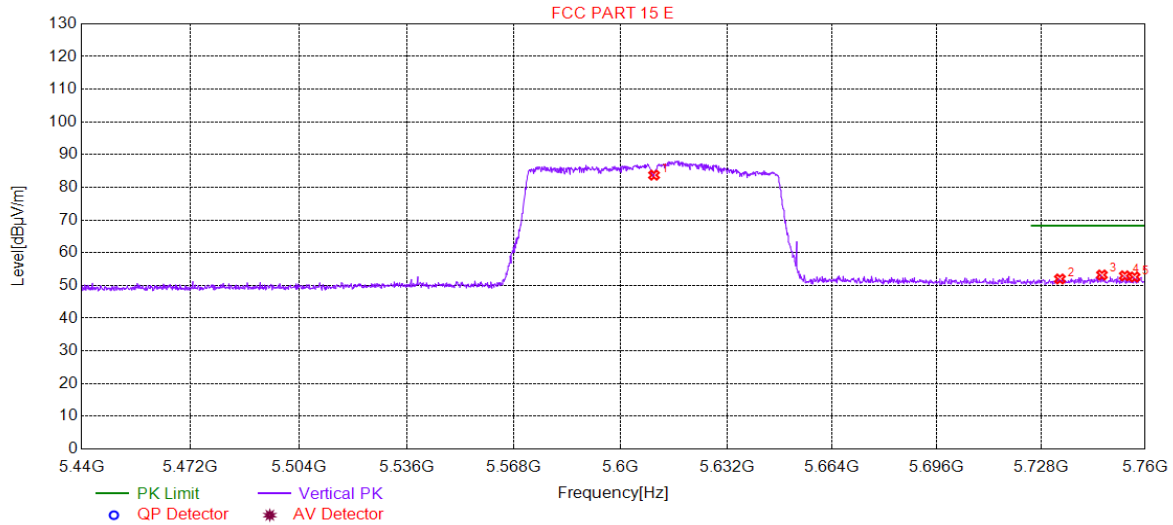


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4.10.1.92 802.11AC80_Channel 122

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	83.73	16.58	0.00	-83.73	150	144	Vertical
2	5733.74	51.99	17.02	68.30	16.31	150	287	Vertical
3	5746.71	53.22	17.10	68.30	15.08	150	199	Vertical
4	5753.75	52.95	17.13	68.30	15.35	150	360	Vertical
5	5756.79	52.60	17.13	68.30	15.70	150	232	Vertical

Final Data List

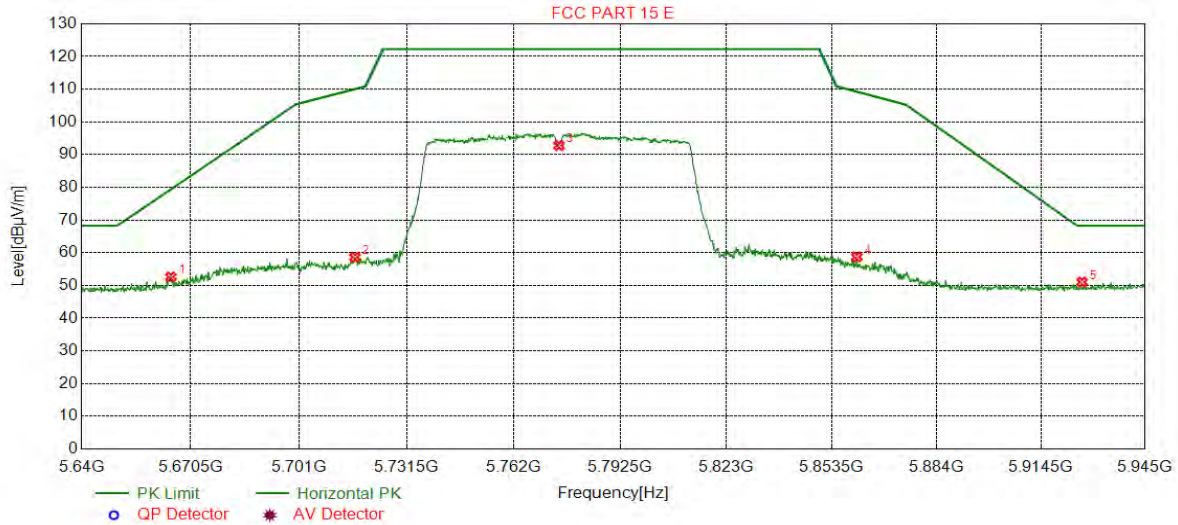


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4.10.1.93 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5665.02	52.63	16.61	79.42	26.79	150	15	Horizontal
2	5716.89	58.63	16.91	110.03	51.40	150	344	Horizontal
3	5775.00	92.79	17.16	122.30	29.51	150	344	Horizontal
4	5860.77	58.75	17.23	109.28	50.53	150	15	Horizontal
5	5926.53	51.06	17.52	68.30	17.24	150	6	Horizontal

Final Data List

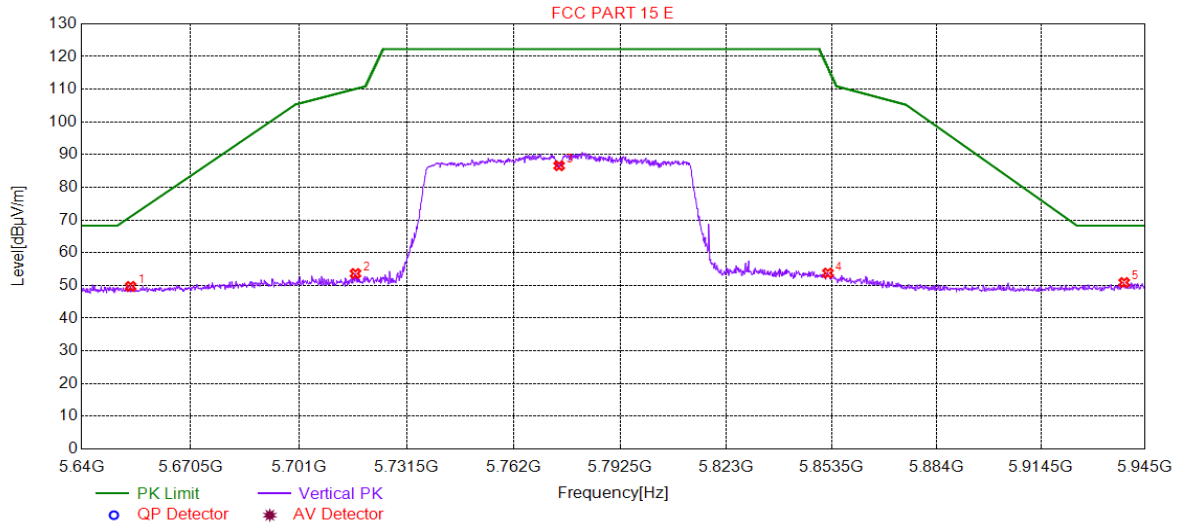


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4.10.1.94 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5653.73	49.71	16.55	71.06	21.35	150	52	Vertical
2	5717.05	53.66	16.91	110.07	56.41	150	190	Vertical
3	5775.00	86.61	17.16	122.30	35.69	150	139	Vertical
4	5852.38	53.80	17.25	116.86	63.06	150	190	Vertical
5	5938.89	50.90	17.71	68.30	17.40	150	98	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)	5180.006878	5825.009557
V max(V)	5180.011522	5825.010929
V min(V)	5180.013707	5825.016303
Max. Deviation Frequency	0.013707	0.016303
Max. Frequency Error (ppm)	2.646227	2.798733

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.009091	5825.007961
5	5180.014478	5825.015097
15	5180.024348	5825.020950
25	5180.025001	5825.023089
35	5180.026378	5825.029373
45	5180.027461	5825.032151
50	5180.031684	5825.033157
Max. Deviation Frequency	0.031684	0.033157
Max. Frequency Error (ppm)	6.116665	5.692146



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 DFS Detection Thresholds
4.12.4.1 Test Result

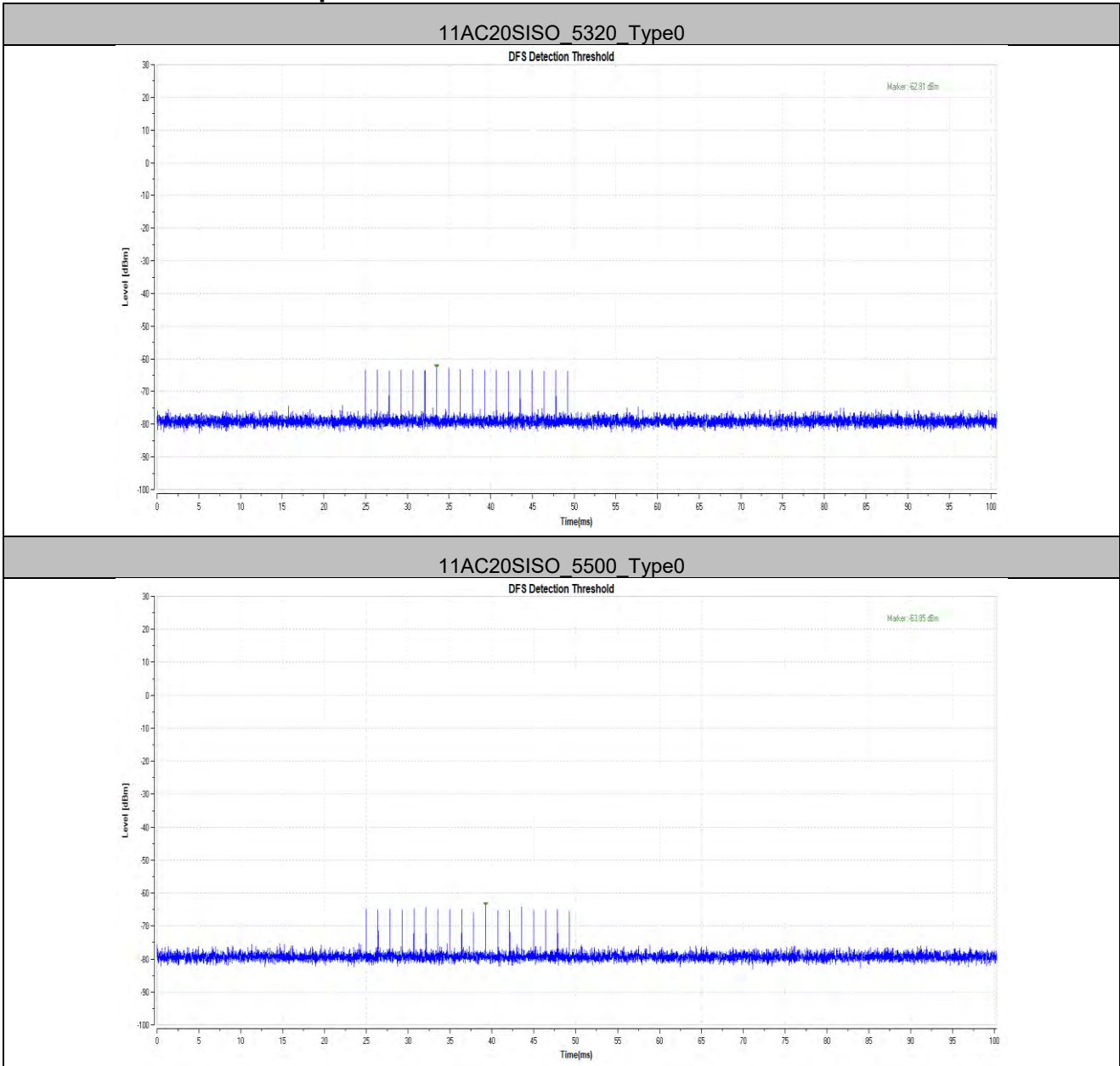
TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.81	-61.00	PASS
	5500	Type0	-63.85	-61.00	PASS
11AC80SISO	5290	Type0	-64.08	-61.00	PASS
	5530	Type0	-61.36	-61.00	PASS



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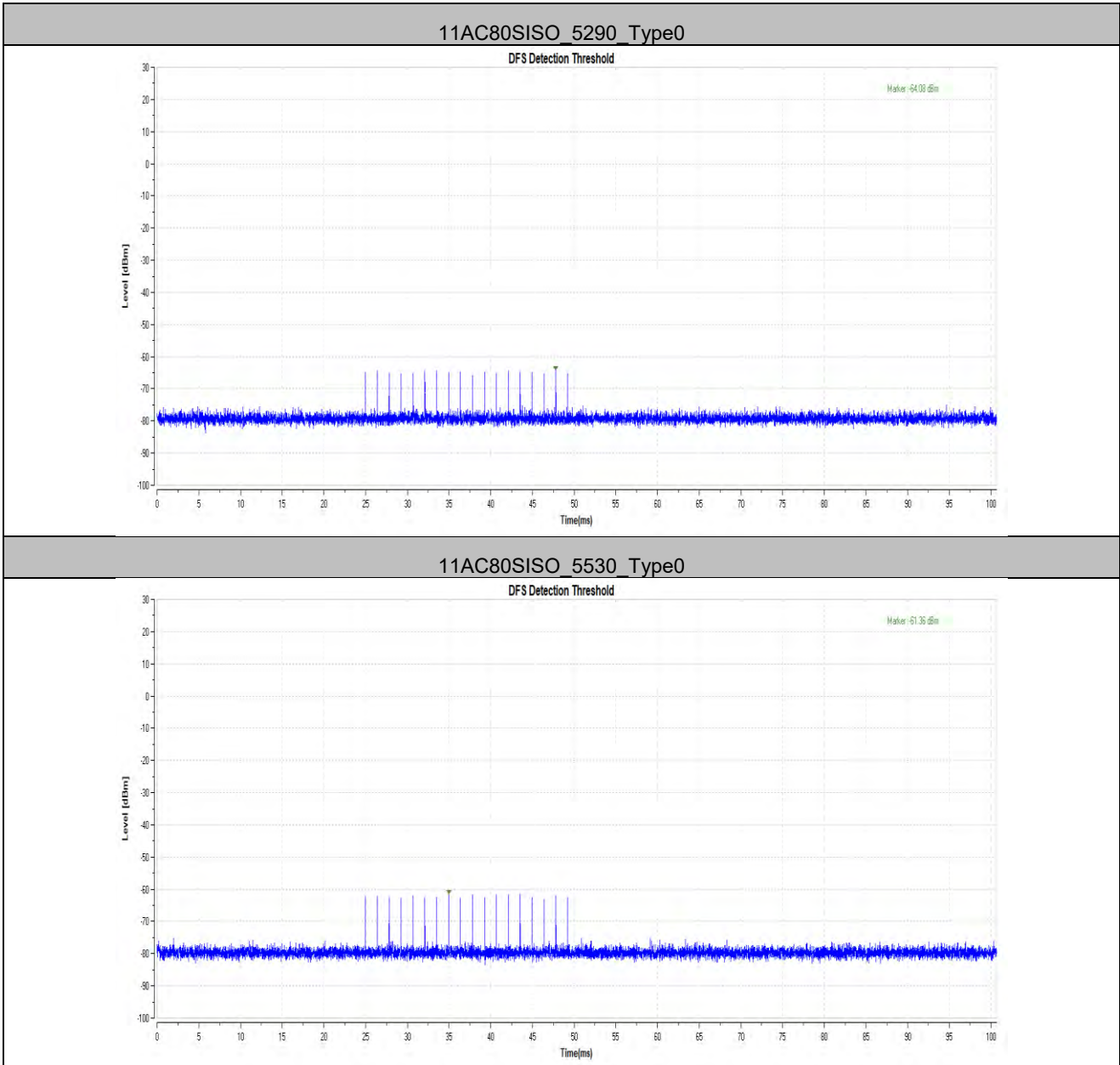
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4.12.4.2 Test Graphs



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4.12.5 Channel Move Time and Channel Closing Transmission Time
4.12.5.1 Test Result

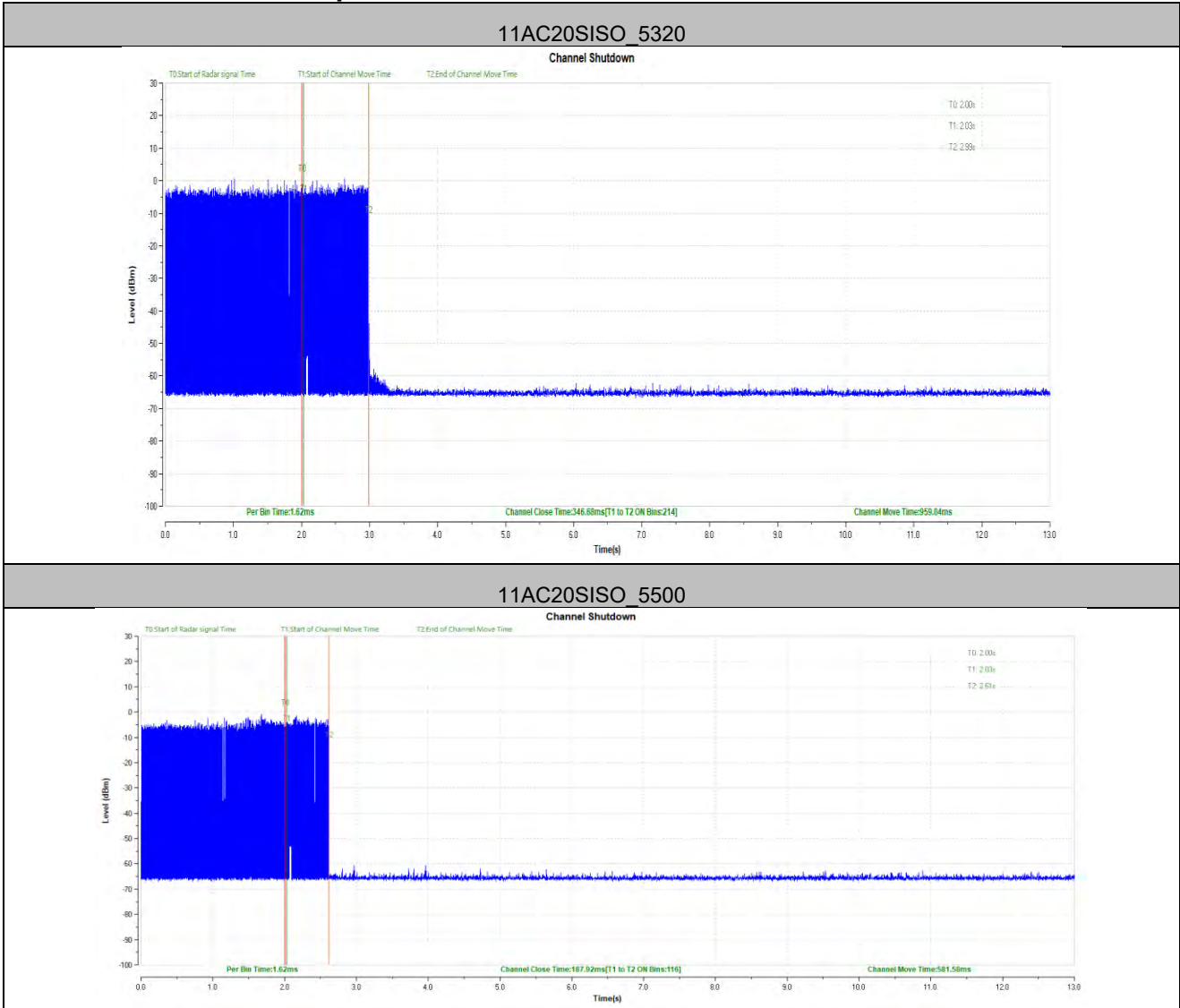
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	346.68	1000	959.04	10000	PASS
	5500	187.92	1000	581.58	10000	PASS
11AC80SISO	5290	218.7	1000	675.54	10000	PASS
	5530	217.08	1000	694.98	10000	PASS



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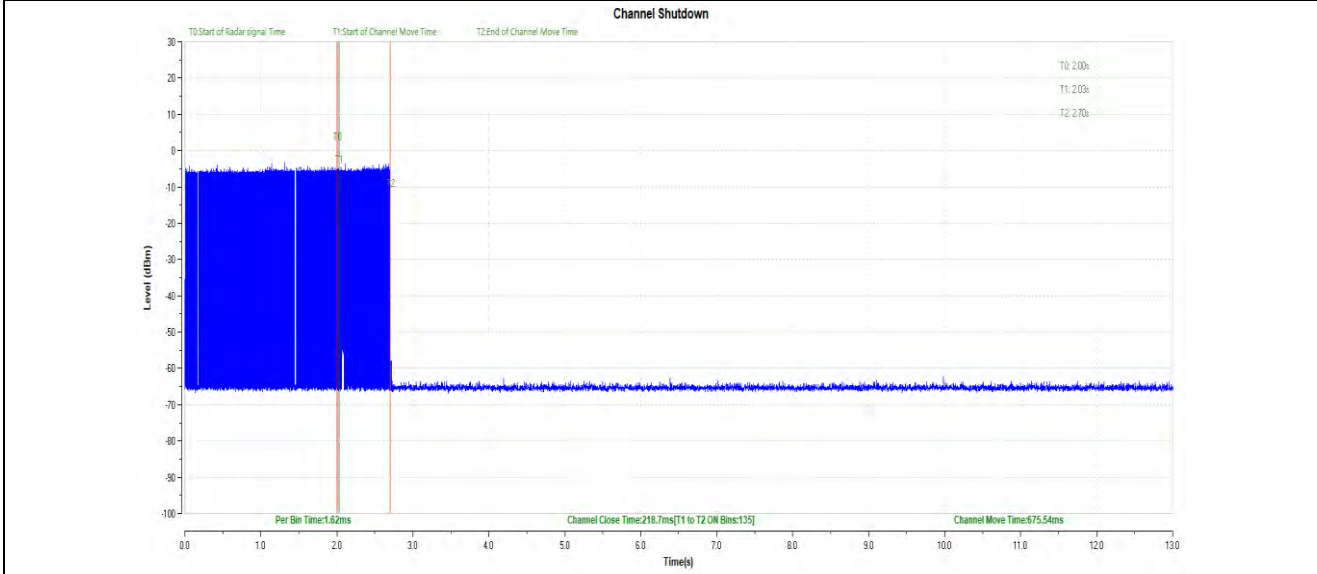
4.12.5.2 Test Graphs



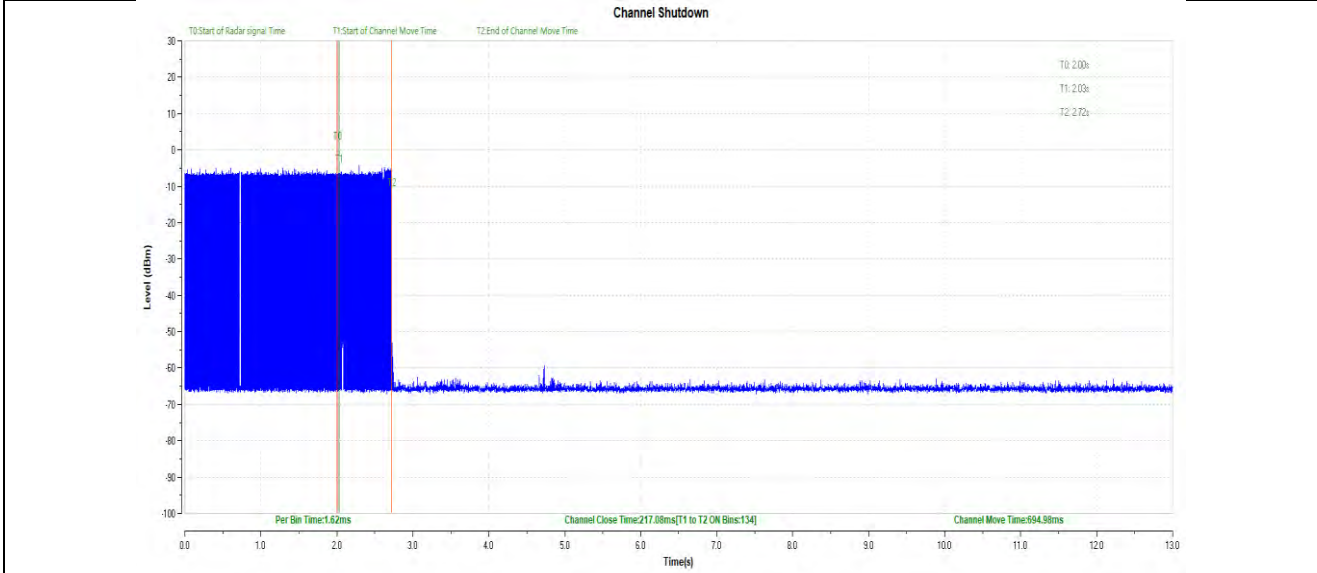
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11AC80SISO_5290



11AC80SISO_5530



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**4.12.6 Non-Occupancy Period
4.12.6.1 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



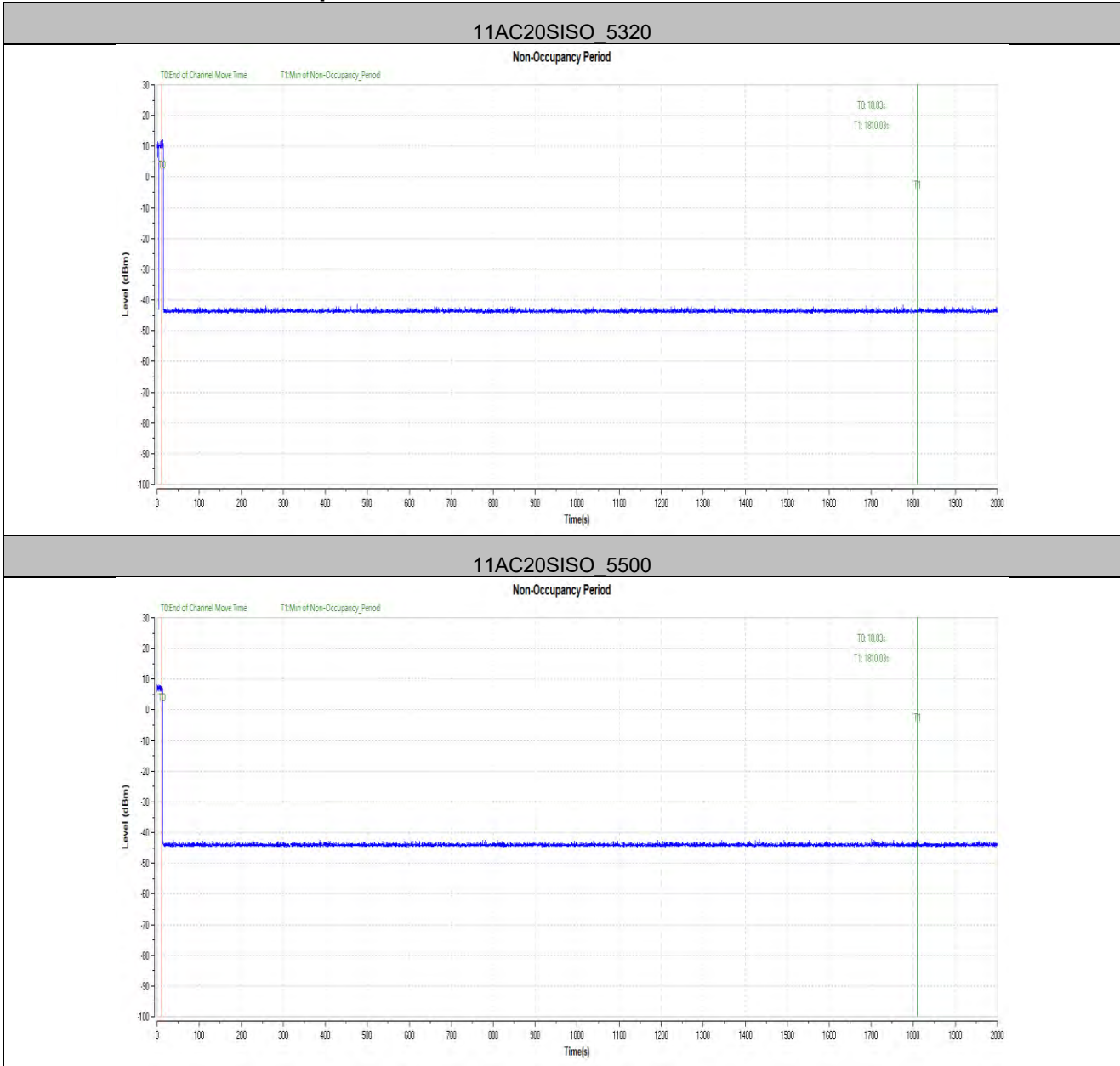
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4.12.6.2 Test Graphs

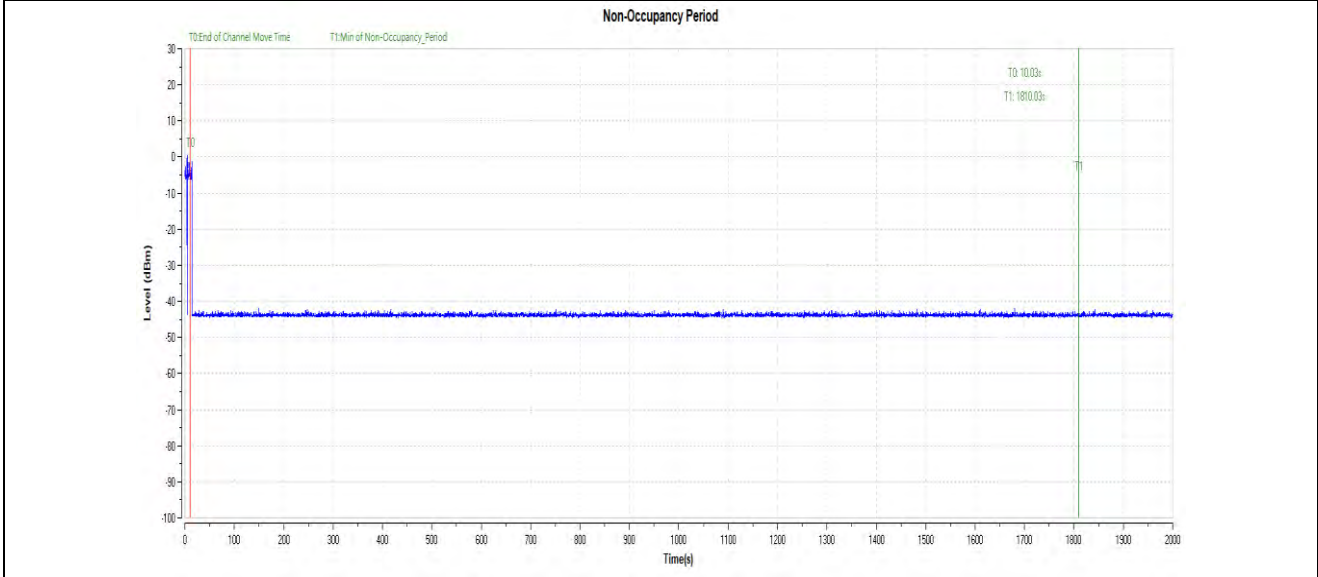


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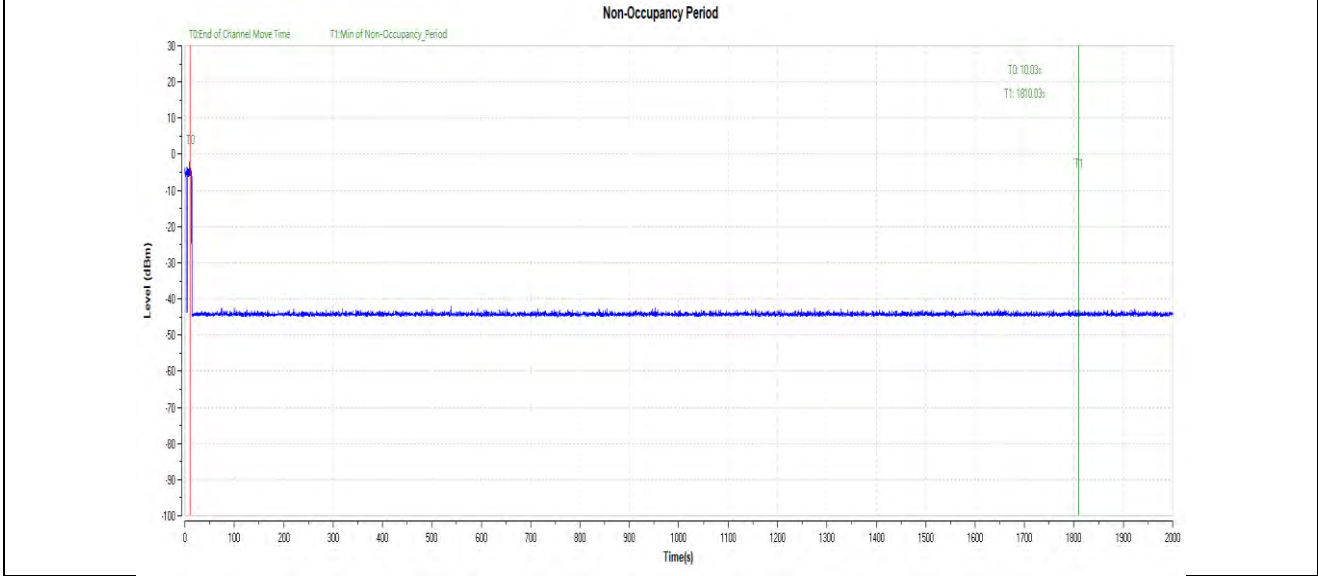
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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±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/2020/80004.

The End



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