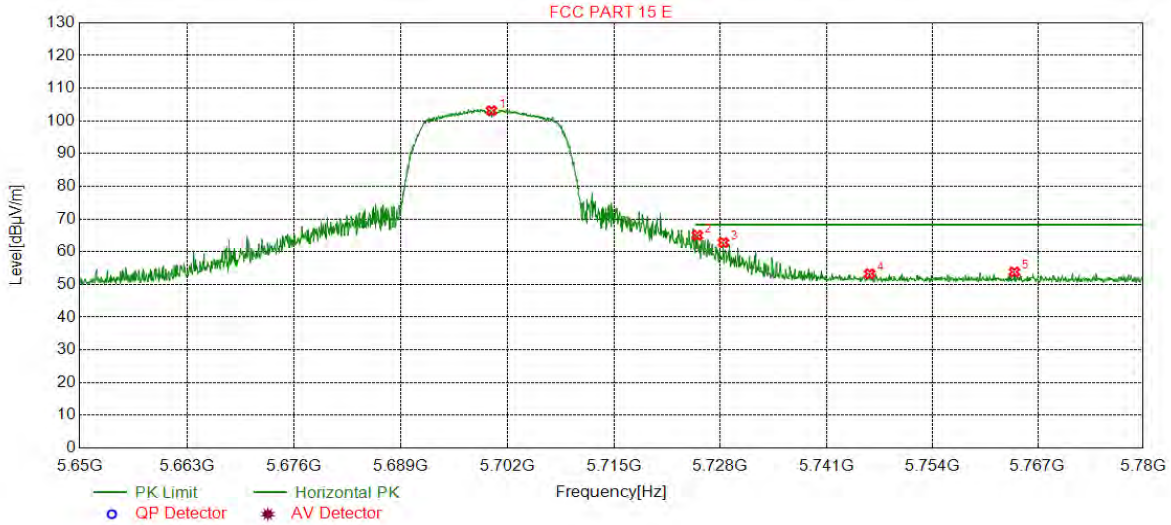
4.10.1.65 802.11AC20_Channel 140

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	103.14	16.80	0.00	-103.14	150	336	Horizontal
2	5725.17	65.02	16.96	68.30	3.28	150	313	Horizontal
3	5728.36	62.82	16.98	68.30	5.48	150	211	Horizontal
4	5746.31	53.29	17.10	68.30	15.01	150	340	Horizontal
5	5764.13	53.84	17.14	68.30	14.46	150	220	Horizontal

Final Data List

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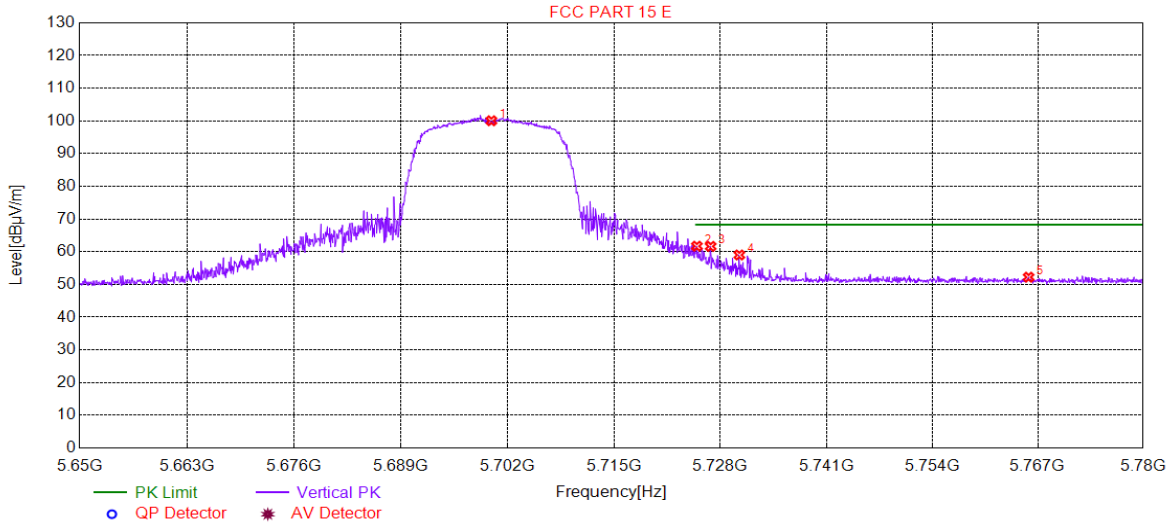
4.10.1.66 802.11AC20_Channel 140

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	100.05	16.80	0.00	-100.05	150	168	Vertical
2	5725.11	61.72	16.96	68.30	6.58	150	29	Vertical
3	5726.80	61.65	16.97	68.30	6.65	150	145	Vertical
4	5730.31	59.02	16.99	68.30	9.28	150	98	Vertical
5	5765.88	52.23	17.14	68.30	16.07	150	159	Vertical

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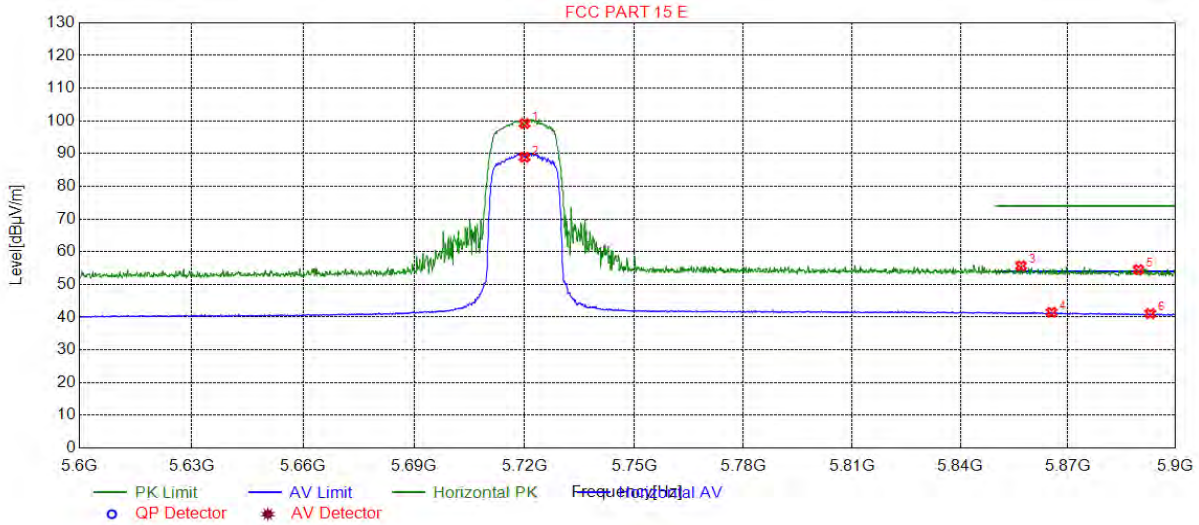
4.10.1.67 802.11AC20_Channel 144

Test Graph



Suspected List

Suspected List								
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1	5720.00	99.22	16.93	0.00	-99.22	150	331	Horizontal
2	5720.00	88.88	16.93	0.00	-88.88	150	216	Horizontal
3	5856.92	55.72	17.24	74.00	18.28	150	344	Horizontal
4	5865.48	41.50	17.21	54.00	12.50	150	93	Horizontal
5	5889.79	54.56	17.14	74.00	19.44	150	210	Horizontal
6	5893.09	41.10	17.13	54.00	12.90	150	203	Horizontal

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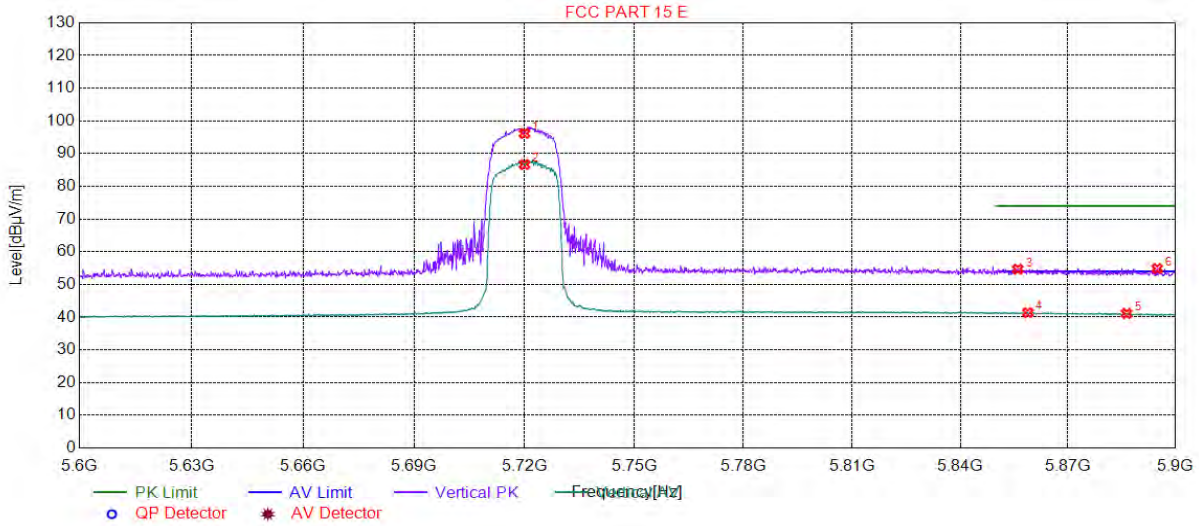
4.10.1.68 802.11AC20_Channel 144

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	96.19	16.93	0.00	-96.19	150	255	Vertical
2	5720.00	86.67	16.93	0.00	-86.67	150	255	Vertical
3	5856.02	54.68	17.24	74.00	19.32	150	193	Vertical
4	5858.87	41.38	17.23	54.00	12.62	150	166	Vertical
5	5886.49	41.11	17.15	54.00	12.89	150	235	Vertical
6	5895.04	54.89	17.12	74.00	19.11	150	16	Vertical

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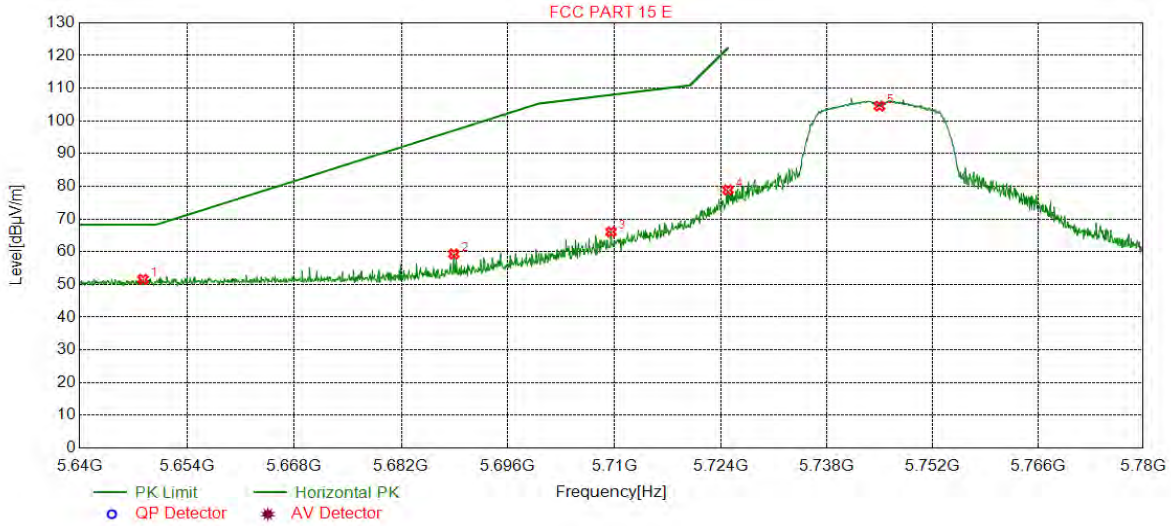
4.10.1.69 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5648.26	51.59	16.53	68.30	16.71	150	296	Horizontal
2	5688.88	59.34	16.74	97.07	37.73	150	336	Horizontal
3	5709.54	66.08	16.86	107.97	41.89	150	327	Horizontal
4	5724.95	78.94	16.96	122.19	43.25	150	327	Horizontal
5	5745.00	104.53	17.09	0.00	-104.53	150	344	Horizontal

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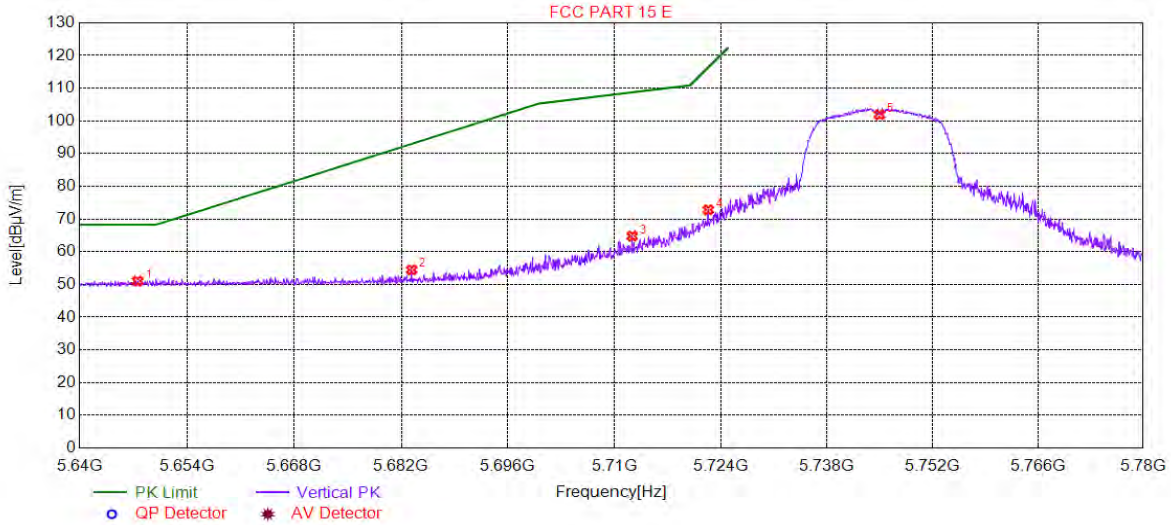
4.10.1.70 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.56	51.02	16.53	68.30	17.28	150	20	Vertical
2	5683.35	54.47	16.71	92.98	38.51	150	56	Vertical
3	5712.34	64.80	16.88	108.76	43.96	150	130	Vertical
4	5722.36	72.83	16.94	116.28	43.45	150	255	Vertical
5	5745.00	101.91	17.09	0.00	-101.91	150	287	Vertical

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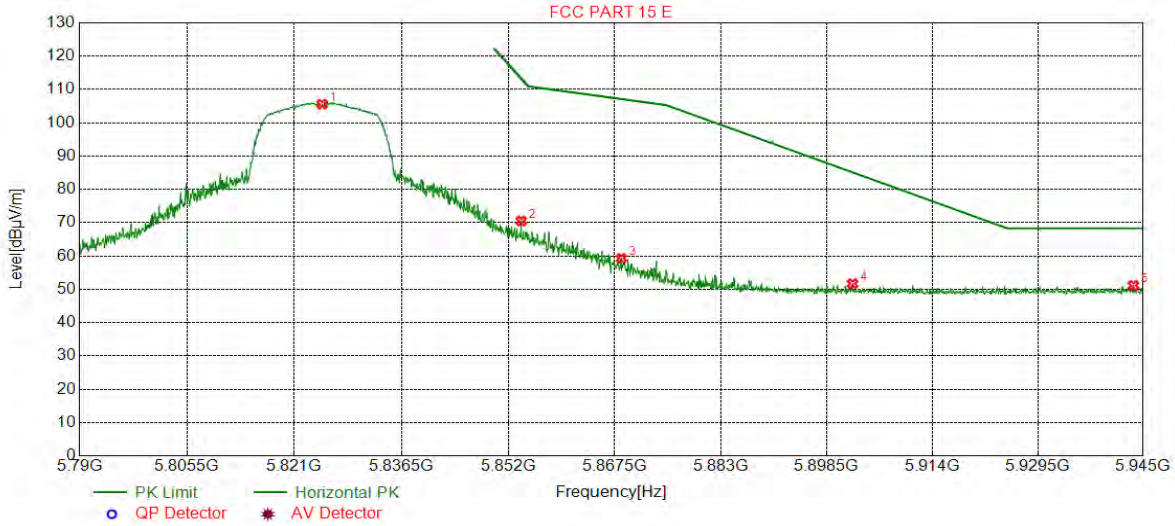
4.10.1.71 802.11AC20_Channel 165

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	105.57	17.23	0.00	-105.57	150	330	Horizontal
2	5853.89	70.55	17.25	113.43	42.88	150	207	Horizontal
3	5868.46	59.30	17.20	107.13	47.83	150	326	Horizontal
4	5902.27	51.72	17.15	85.12	33.40	150	203	Horizontal
5	5943.60	51.19	17.78	68.30	17.11	150	344	Horizontal

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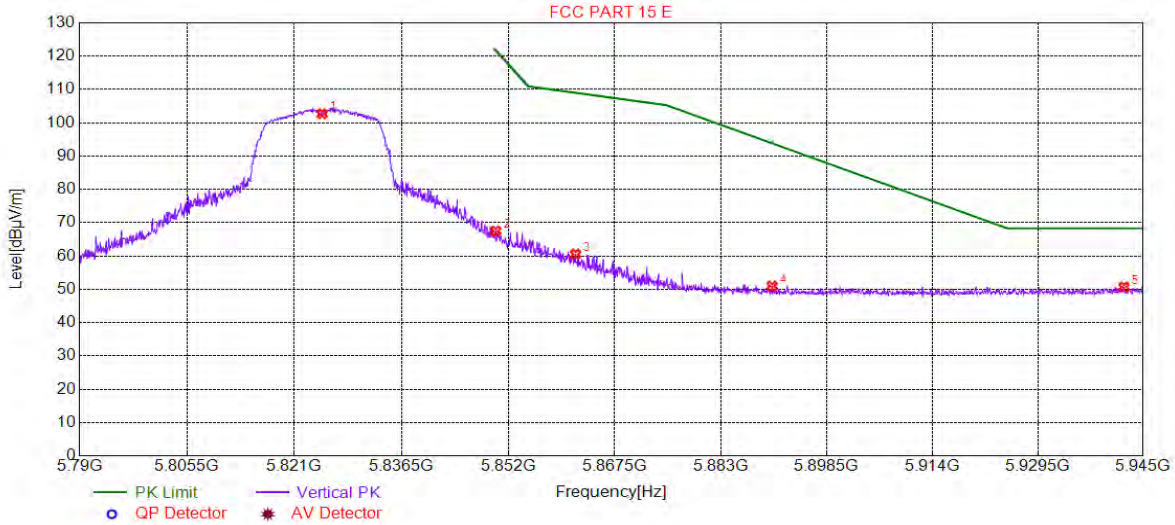
4.10.1.72 802.11AC20_Channel 165

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	102.73	17.23	0.00	-102.73	150	222	Vertical
2	5850.17	67.53	17.26	121.91	54.38	150	222	Vertical
3	5861.80	60.58	17.22	109.00	48.42	150	33	Vertical
4	5890.49	50.98	17.14	93.84	42.86	150	102	Vertical
5	5942.20	50.72	17.76	68.30	17.58	150	208	Vertical

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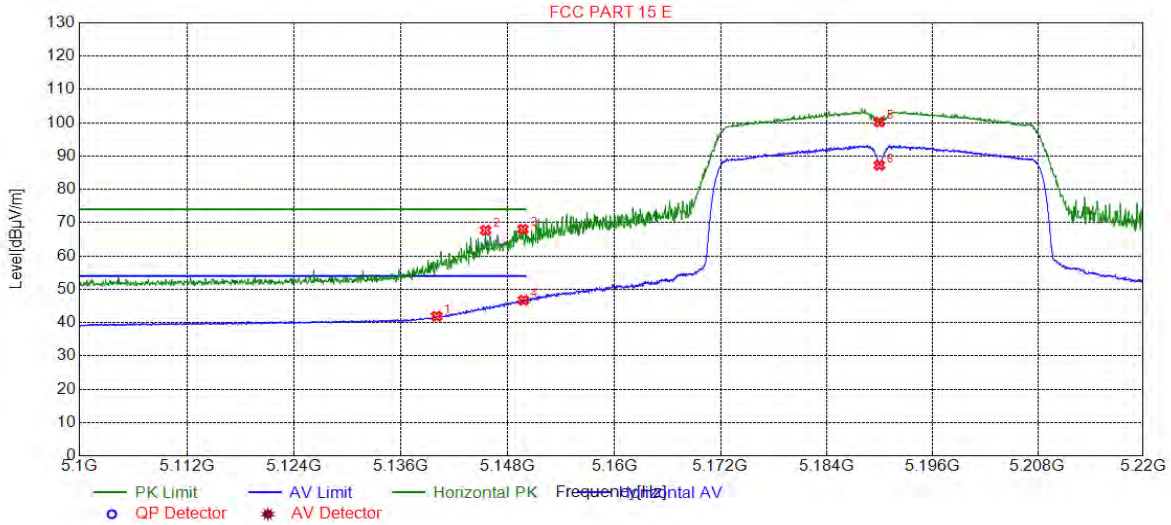
4.10.1.73 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.98	41.93	15.43	54.00	12.07	150	8	Horizontal
2	5145.50	67.72	15.48	74.00	6.28	150	8	Horizontal
3	5149.70	68.02	15.52	74.00	5.98	150	346	Horizontal
4	5149.76	46.74	15.52	54.00	7.26	150	8	Horizontal
5	5190.00	100.21	15.58	0.00	-100.21	150	346	Horizontal
6	5190.00	87.22	15.58	0.00	-87.22	150	346	Horizontal

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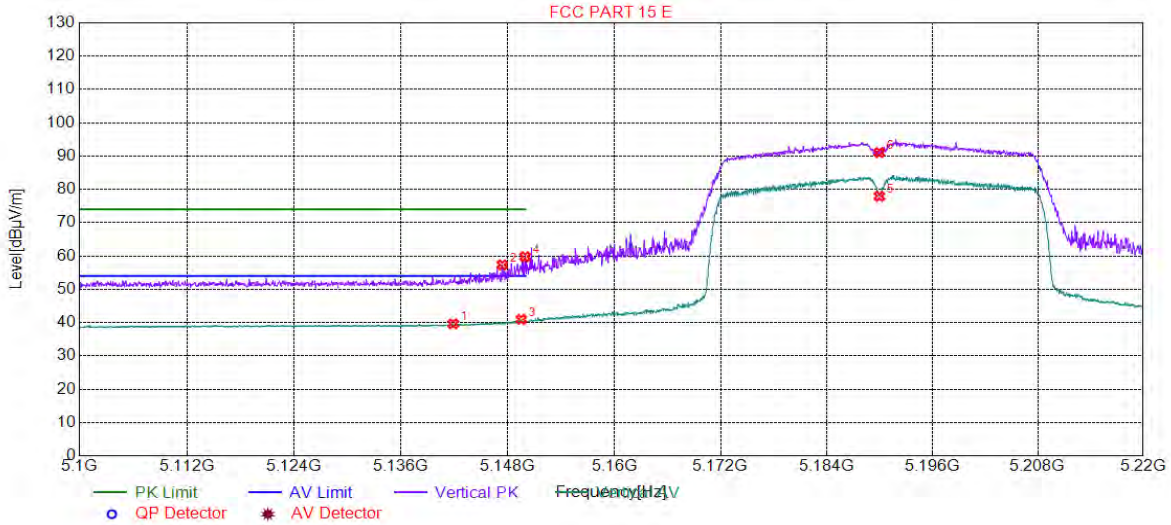
4.10.1.74 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5141.84	39.67	15.45	54.00	14.33	150	150	Vertical
2	5147.36	57.35	15.50	74.00	16.65	150	199	Vertical
3	5149.52	40.99	15.52	54.00	13.01	150	150	Vertical
4	5149.94	59.82	15.52	74.00	14.18	150	254	Vertical
5	5190.00	77.93	15.58	0.00	-77.93	150	150	Vertical
6	5190.00	91.06	15.58	0.00	-91.06	150	139	Vertical

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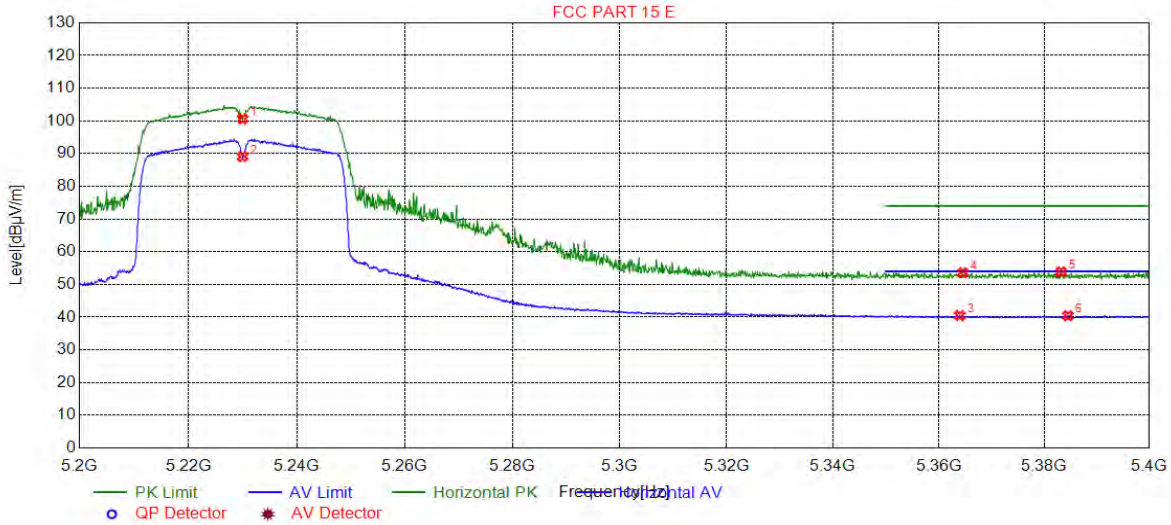
4.10.1.75 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List								
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1	5230.00	100.63	15.51	0.00	-100.63	150	344	Horizontal
2	5230.00	89.11	15.51	0.00	-89.11	150	344	Horizontal
3	5363.98	40.50	16.03	54.00	13.50	150	344	Horizontal
4	5364.58	53.59	16.03	74.00	20.41	150	2	Horizontal
5	5383.19	53.86	16.15	74.00	20.14	150	55	Horizontal
6	5384.49	40.44	16.15	54.00	13.56	150	344	Horizontal

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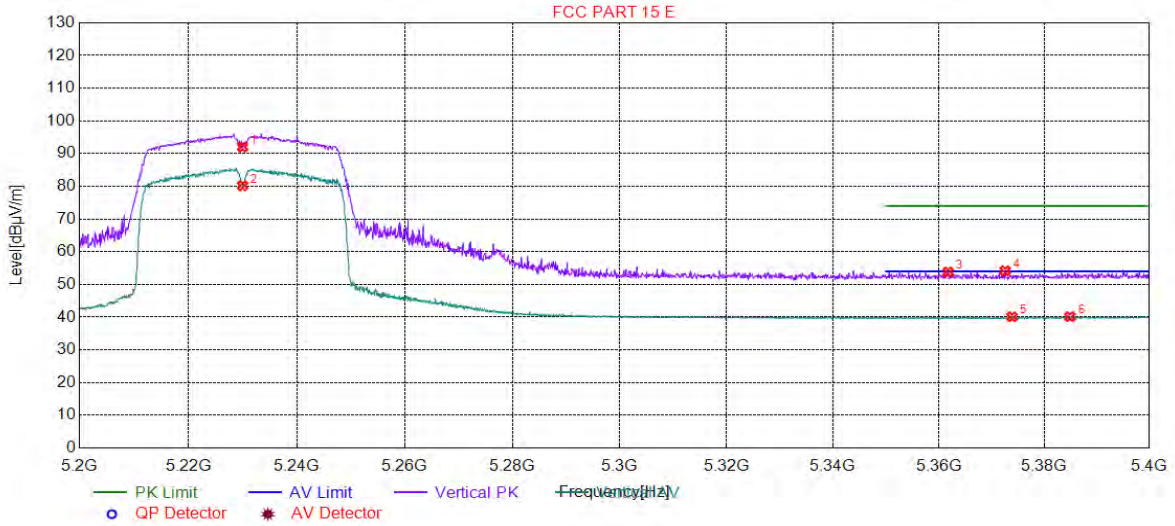
4.10.1.76 802.11AC40_Channel 46

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	92.01	15.51	0.00	-92.01	150	147	Vertical
2	5230.00	80.21	15.51	0.00	-80.21	150	147	Vertical
3	5361.78	53.82	16.01	74.00	20.18	150	105	Vertical
4	5372.58	54.19	16.08	74.00	19.81	150	140	Vertical
5	5373.88	40.13	16.09	54.00	13.87	150	334	Vertical
6	5384.89	40.17	16.16	54.00	13.83	150	49	Vertical

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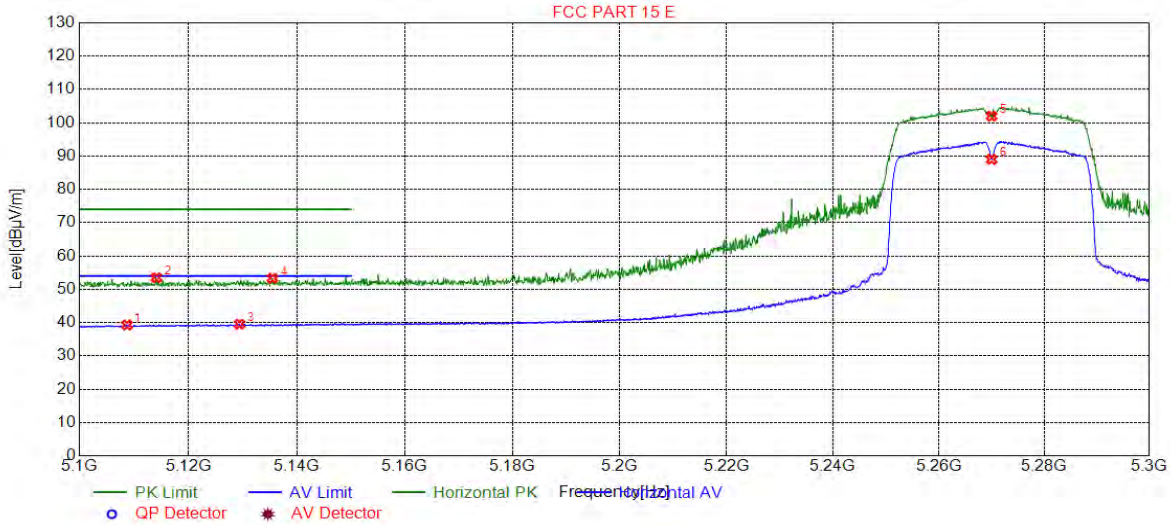
4.10.1.77 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
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1	5108.70	39.31	15.16	54.00	14.69	150	345	Horizontal
2	5114.10	53.50	15.21	74.00	20.50	150	345	Horizontal
3	5129.41	39.57	15.34	54.00	14.43	150	345	Horizontal
4	5135.51	53.33	15.40	74.00	20.67	150	145	Horizontal
5	5270.00	101.99	15.56	0.00	-101.99	150	345	Horizontal
6	5270.00	89.00	15.56	0.00	-89.00	150	345	Horizontal

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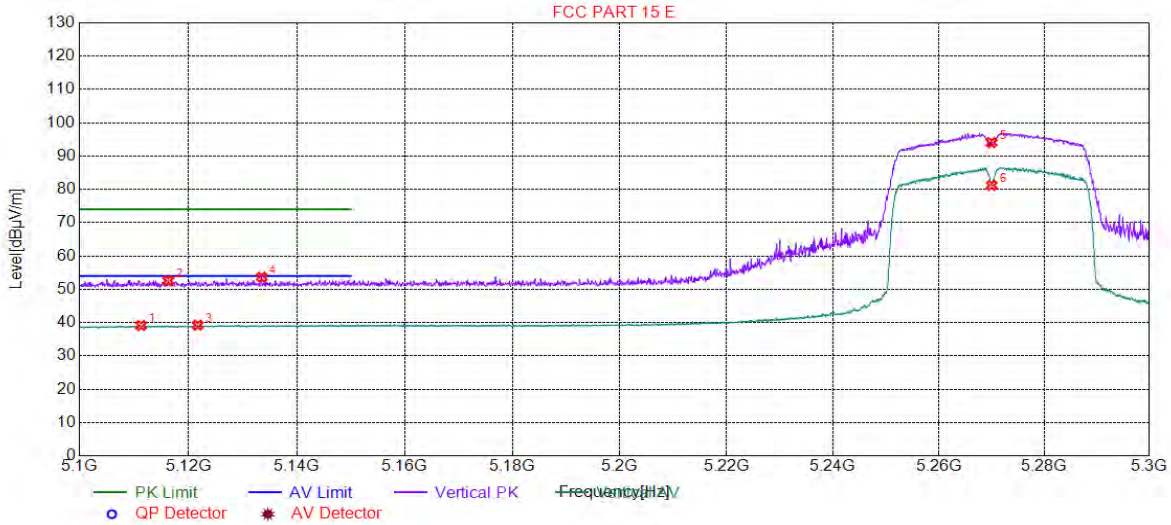
4.10.1.78 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5111.30	39.16	15.19	54.00	14.84	150	297	Vertical
2	5116.30	52.61	15.23	74.00	21.39	150	304	Vertical
3	5121.71	39.25	15.28	54.00	14.75	150	276	Vertical
4	5133.51	53.69	15.38	74.00	20.31	150	332	Vertical
5	5270.00	94.03	15.56	0.00	-94.03	150	144	Vertical
6	5270.00	81.23	15.56	0.00	-81.23	150	137	Vertical

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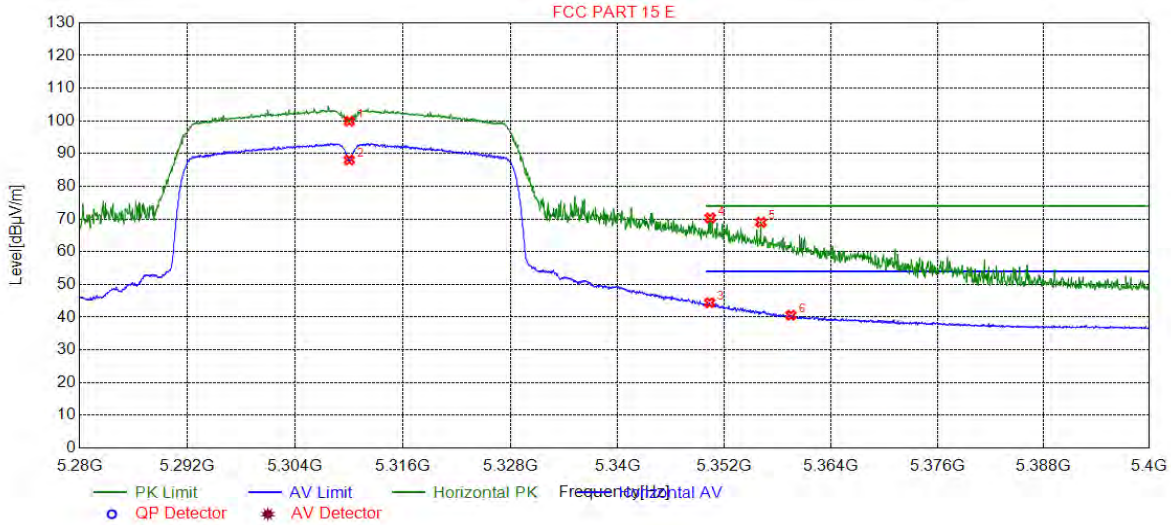
4.10.1.79 802.11AC40_Channel 62

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	99.91	15.75	0.00	-99.91	150	2	Horizontal
2	5310.00	88.04	15.75	0.00	-88.04	150	344	Horizontal
3	5350.35	44.43	15.94	54.00	9.57	150	344	Horizontal
4	5350.41	70.32	15.94	74.00	3.68	150	324	Horizontal
5	5356.11	69.01	15.98	74.00	4.99	150	0	Horizontal
6	5359.47	40.60	16.00	54.00	13.40	150	344	Horizontal

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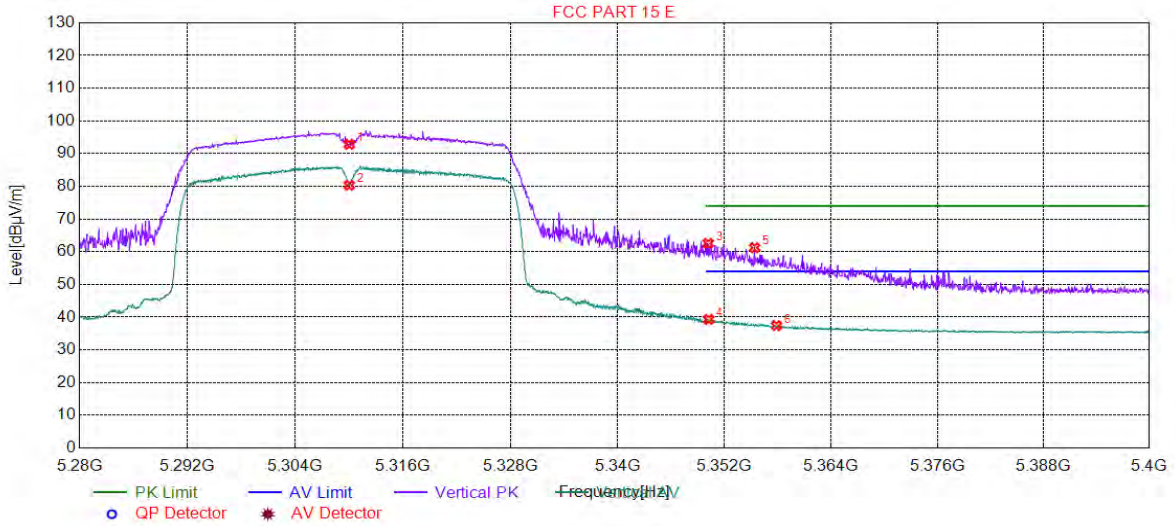
4.10.1.80 802.11AC40_Channel 62

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	92.87	15.75	0.00	-92.87	150	167	Vertical
2	5310.00	80.34	15.75	0.00	-80.34	150	174	Vertical
3	5350.17	62.57	15.94	74.00	11.43	150	167	Vertical
4	5350.23	39.33	15.94	54.00	14.67	150	160	Vertical
5	5355.39	61.24	15.97	74.00	12.76	150	249	Vertical
6	5357.85	37.42	15.99	54.00	16.58	150	49	Vertical

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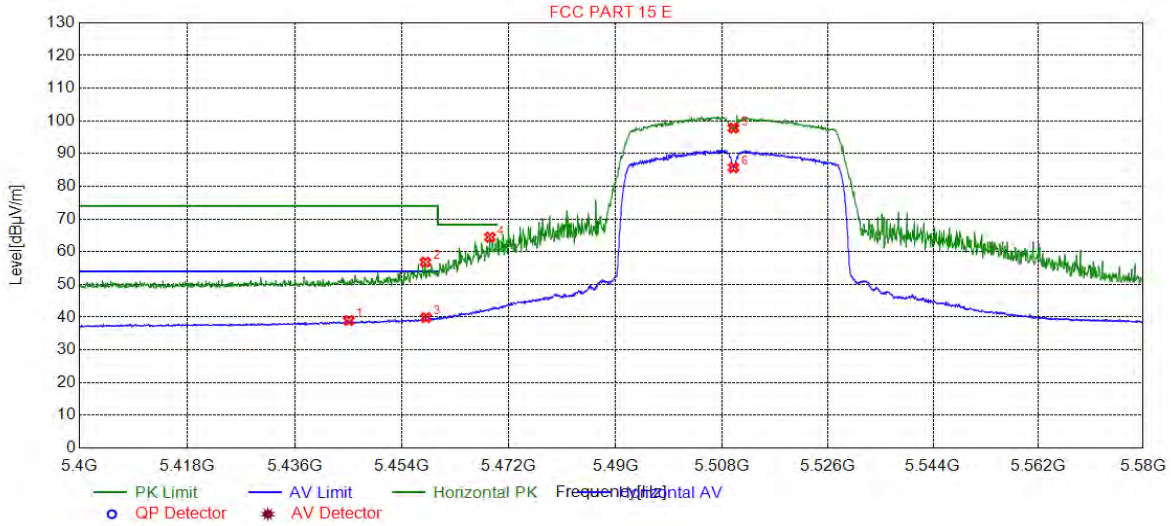
4.10.1.81 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
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1	5445.02	38.98	16.25	54.00	15.02	150	344	Horizontal
2	5457.89	56.84	16.25	74.00	17.16	150	331	Horizontal
3	5457.98	39.86	16.25	54.00	14.14	150	331	Horizontal
4	5468.79	64.44	16.25	68.30	3.86	150	344	Horizontal
5	5510.00	97.80	16.28	0.00	-97.80	150	325	Horizontal
6	5510.00	85.73	16.28	0.00	-85.73	150	344	Horizontal

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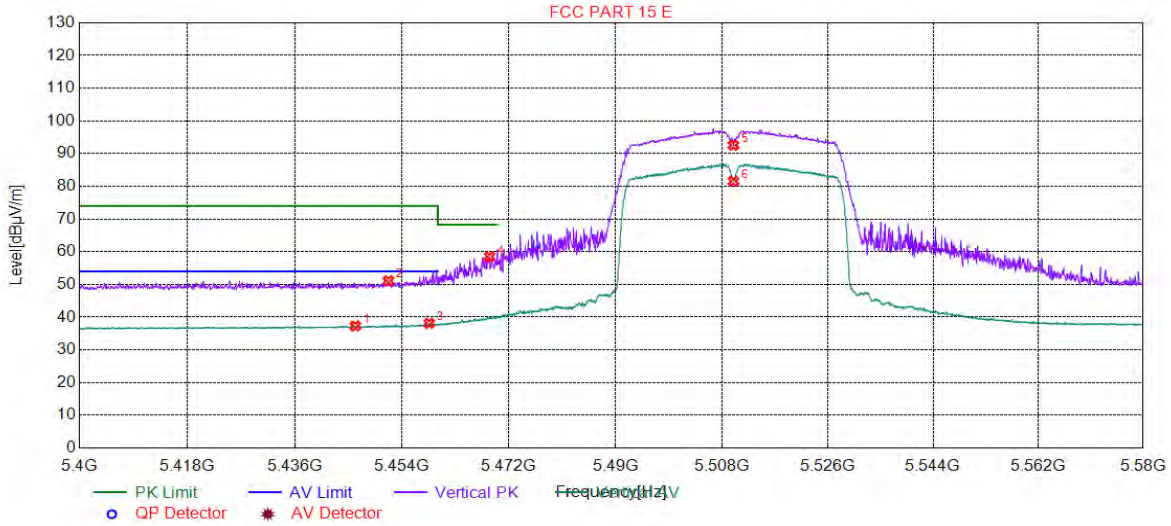
4.10.1.82 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.10	37.32	16.25	54.00	16.68	150	256	Vertical
2	5451.68	51.13	16.25	74.00	22.87	150	16	Vertical
3	5458.52	38.14	16.25	54.00	15.86	150	138	Vertical
4	5468.70	58.52	16.25	68.30	9.78	150	235	Vertical
5	5510.00	92.56	16.28	0.00	-92.56	150	173	Vertical
6	5510.00	81.56	16.28	0.00	-81.56	150	256	Vertical

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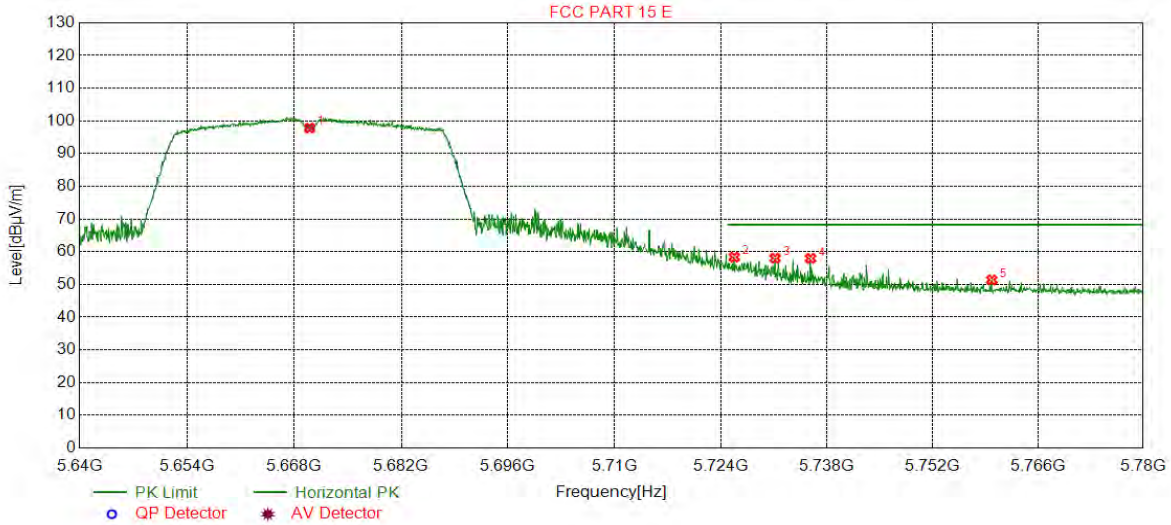
4.10.1.83 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List								
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1	5670.00	97.82	16.64	0.00	-97.82	150	336	Horizontal
2	5725.79	58.35	16.97	68.30	9.95	150	336	Horizontal
3	5731.18	58.04	17.00	68.30	10.26	150	299	Horizontal
4	5735.87	57.96	17.03	68.30	10.34	150	331	Horizontal
5	5759.90	51.38	17.13	68.30	16.92	150	262	Horizontal

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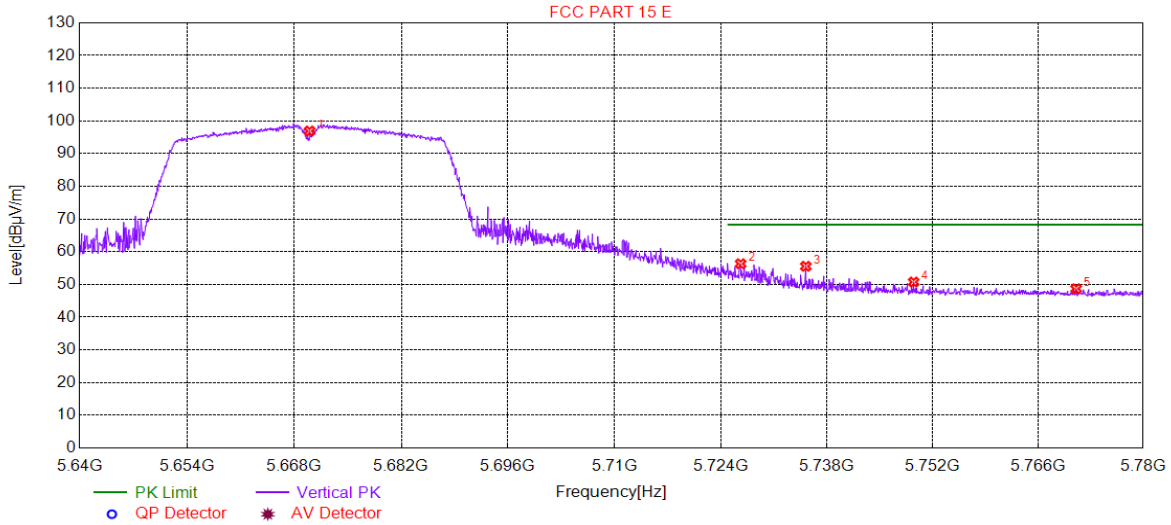
4.10.1.84 802.11AC40_Channel 134

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	96.91	16.64	0.00	-96.91	150	251	Vertical
2	5726.63	56.35	16.97	68.30	11.95	150	172	Vertical
3	5735.24	55.56	17.03	68.30	12.74	150	251	Vertical
4	5749.53	50.75	17.12	68.30	17.55	150	144	Vertical
5	5771.10	48.71	17.15	68.30	19.59	150	172	Vertical

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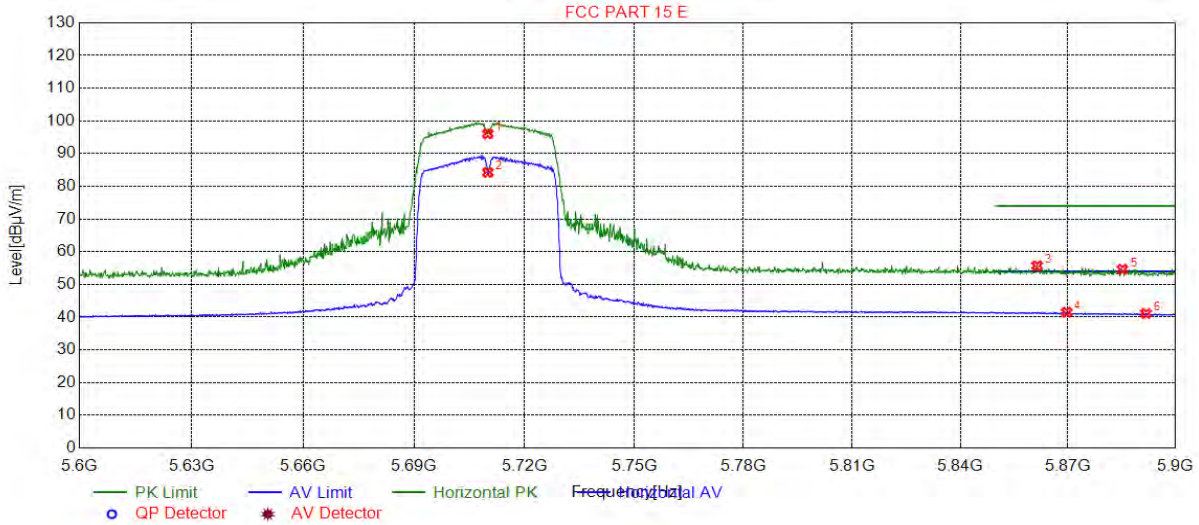
4.10.1.85 802.11AC40_Channel 142

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	96.04	16.86	0.00	-96.04	150	215	Horizontal
2	5710.00	84.28	16.86	0.00	-84.28	150	222	Horizontal
3	5861.43	55.73	17.23	74.00	18.27	150	311	Horizontal
4	5869.68	41.52	17.20	54.00	12.48	150	0	Horizontal
5	5885.29	54.67	17.15	74.00	19.33	150	249	Horizontal
6	5891.89	41.12	17.13	54.00	12.88	150	6	Horizontal

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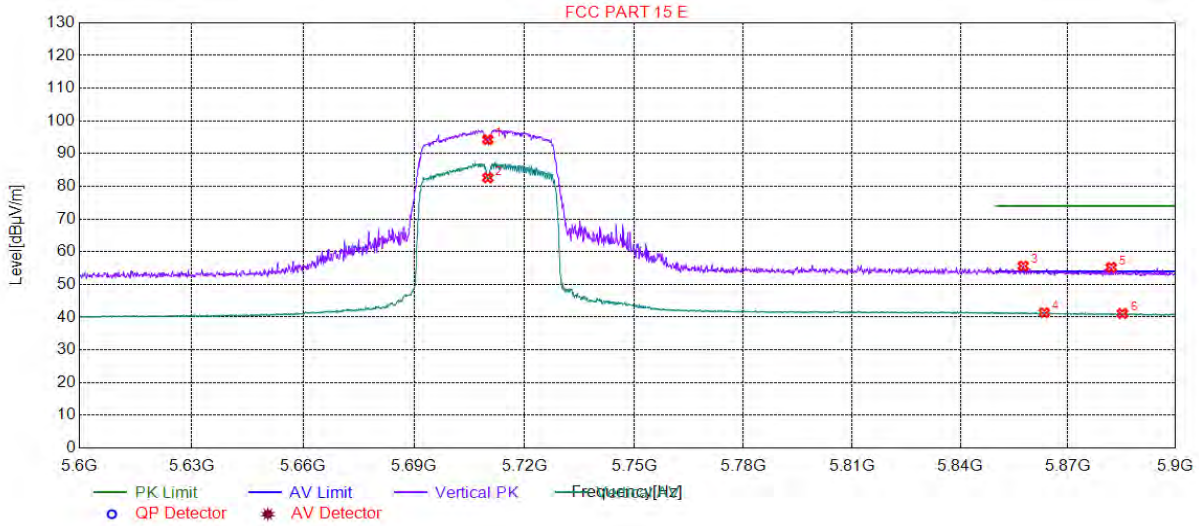
4.10.1.86 802.11AC40_Channel 142

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	94.28	16.86	0.00	-94.28	150	117	Vertical
2	5710.00	82.62	16.86	0.00	-82.62	150	250	Vertical
3	5857.52	55.65	17.24	74.00	18.35	150	50	Vertical
4	5863.38	41.37	17.22	54.00	12.63	150	83	Vertical
5	5882.14	55.25	17.16	74.00	18.75	150	359	Vertical
6	5885.29	41.12	17.15	54.00	12.88	150	215	Vertical

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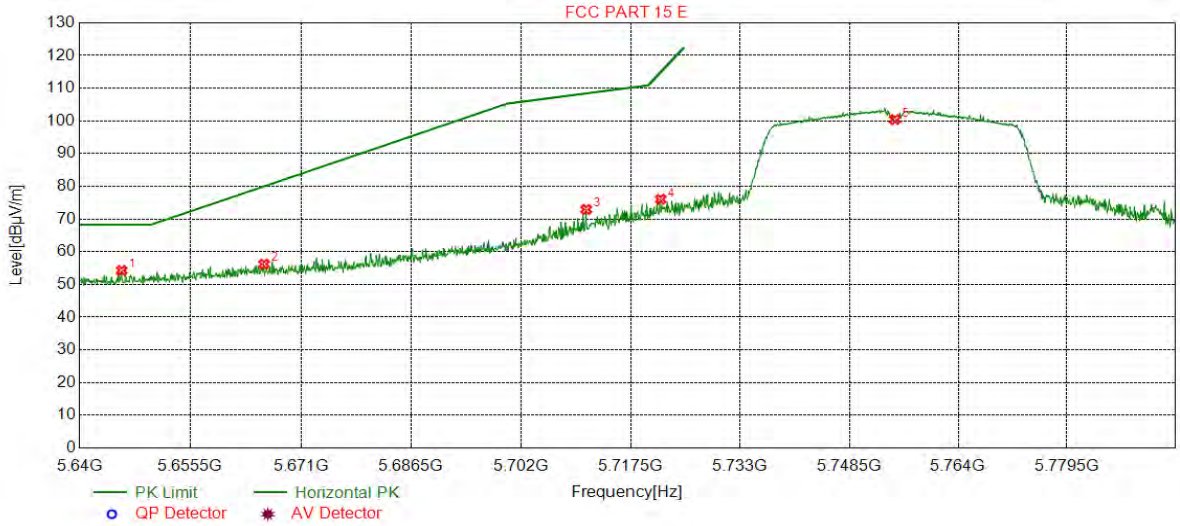
4.10.1.87 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.89	54.26	16.53	68.30	14.04	150	336	Horizontal
2	5665.82	56.21	16.62	80.01	23.80	150	340	Horizontal
3	5711.18	72.94	16.87	108.43	35.49	150	289	Horizontal
4	5721.72	76.07	16.94	114.83	38.76	150	336	Horizontal
5	5755.00	100.42	17.13	0.00	-100.42	150	294	Horizontal

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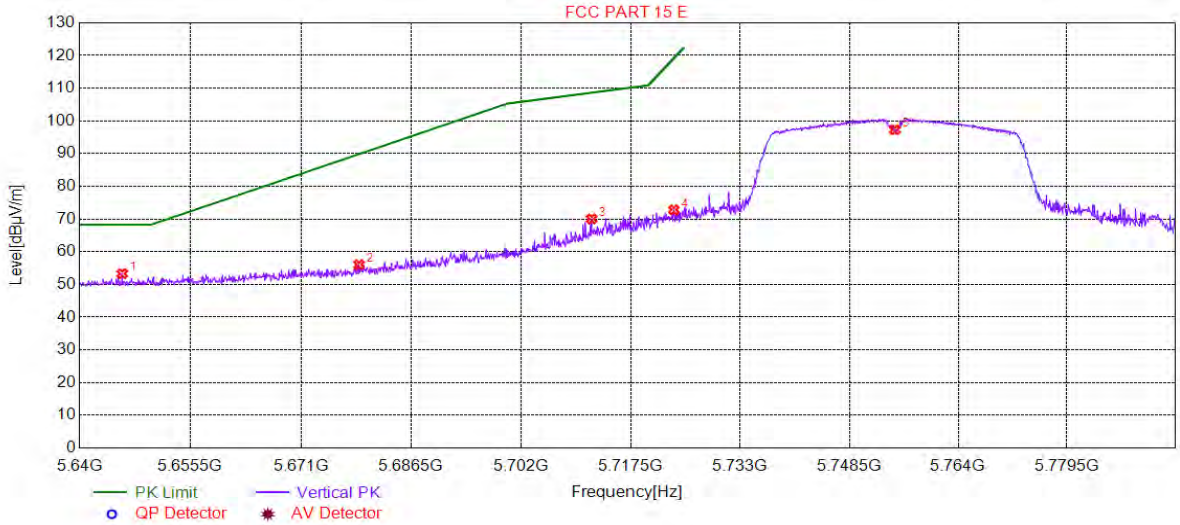
4.10.1.88 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.97	53.31	16.53	68.30	14.99	150	230	Vertical
2	5679.15	56.04	16.69	89.88	33.84	150	38	Vertical
3	5711.95	70.06	16.88	108.65	38.59	150	61	Vertical
4	5723.58	72.81	16.95	119.08	46.27	150	144	Vertical
5	5755.00	97.28	17.13	0.00	-97.28	150	144	Vertical

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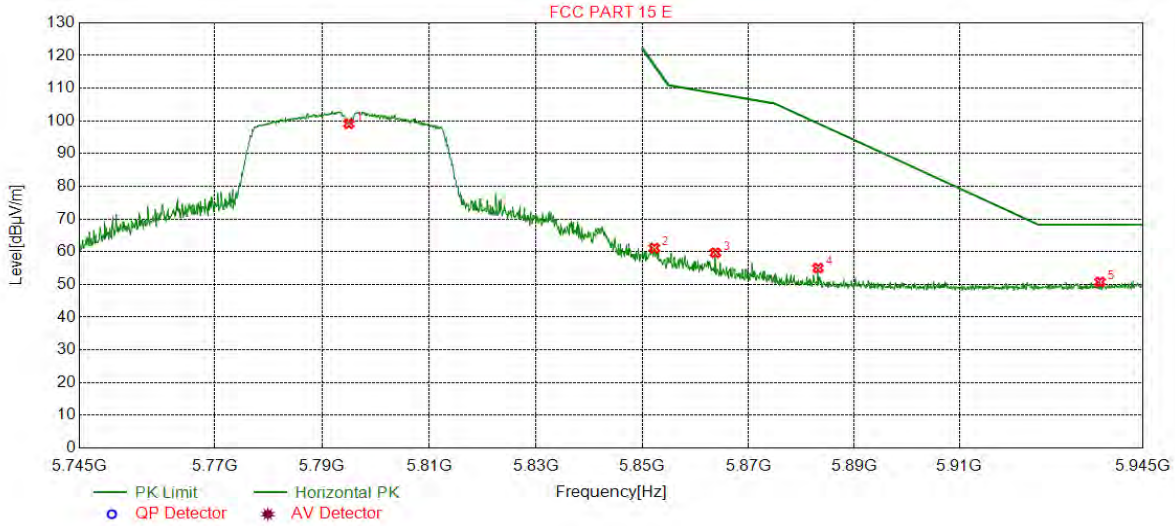
4.10.1.89 802.11AC40_Channel 159

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	99.13	17.18	0.00	-99.13	150	268	Horizontal
2	5852.25	61.14	17.25	117.16	56.02	150	322	Horizontal
3	5863.75	59.69	17.22	108.45	48.76	150	332	Horizontal
4	5883.16	55.02	17.16	99.25	44.23	150	318	Horizontal
5	5936.79	50.77	17.68	68.30	17.53	150	291	Horizontal

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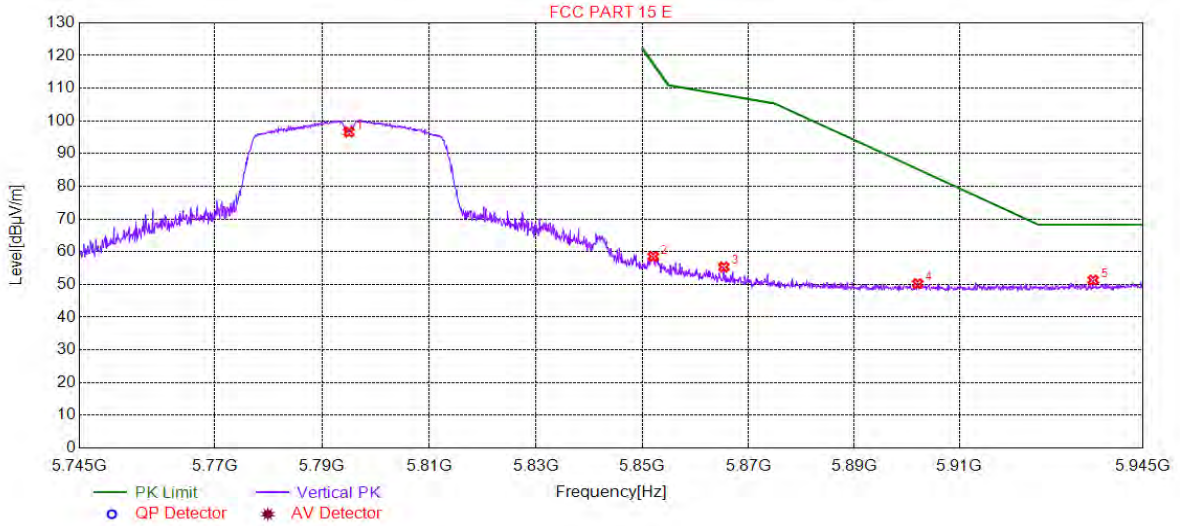
4.10.1.90 802.11AC40_Channel 159

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	96.61	17.18	0.00	-96.61	150	144	Vertical
2	5852.05	58.56	17.25	117.62	59.06	150	167	Vertical
3	5865.36	55.35	17.21	108.00	52.65	150	171	Vertical
4	5902.07	50.26	17.14	85.26	35.00	150	106	Vertical
5	5935.49	51.34	17.66	68.30	16.96	150	20	Vertical

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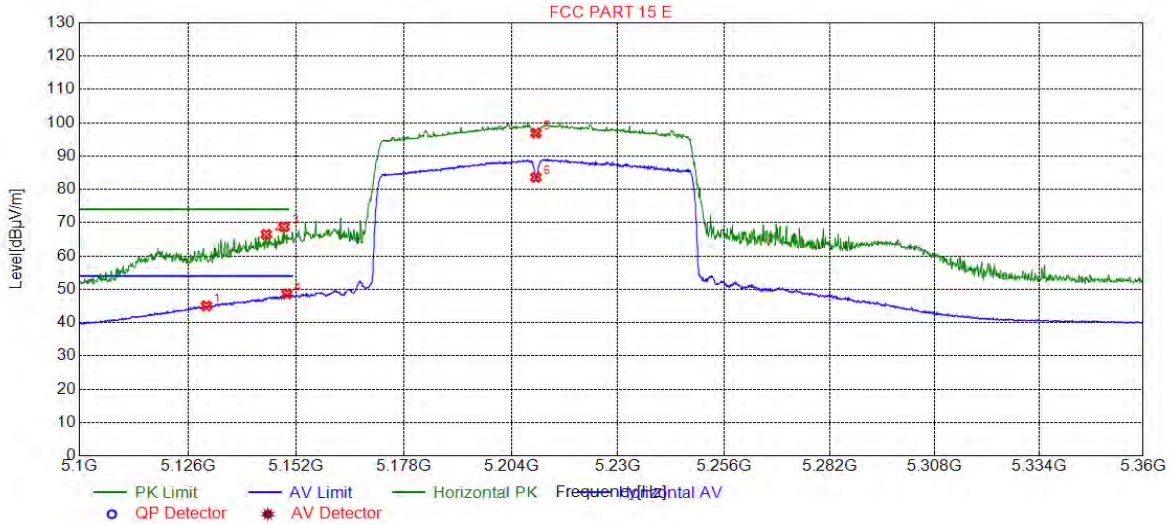
4.10.1.91 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
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1	5130.30	45.04	15.35	54.00	8.96	150	344	Horizontal
2	5144.74	66.51	15.47	74.00	7.49	150	12	Horizontal
3	5149.03	68.79	15.51	74.00	5.21	150	344	Horizontal
4	5149.68	48.64	15.52	54.00	5.36	150	0	Horizontal
5	5210.00	96.91	15.56	0.00	-96.91	150	344	Horizontal
6	5210.00	83.65	15.56	0.00	-83.65	150	344	Horizontal

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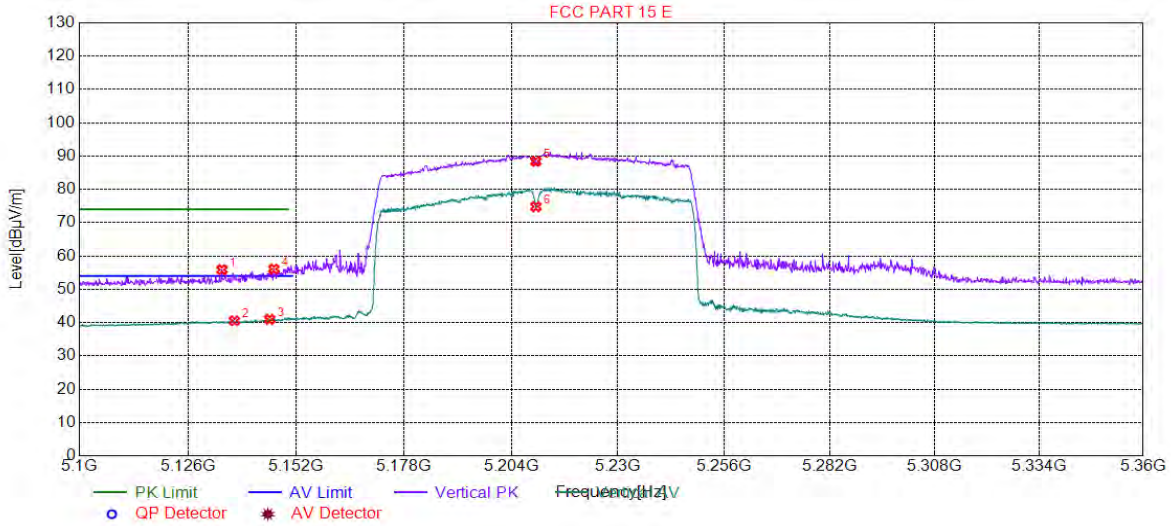
4.10.1.92 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5134.07	55.91	15.38	74.00	18.09	150	209	Vertical
2	5137.06	40.56	15.41	54.00	13.44	150	133	Vertical
3	5145.52	41.01	15.48	54.00	12.99	150	140	Vertical
4	5146.56	56.11	15.49	74.00	17.89	150	168	Vertical
5	5210.00	88.42	15.56	0.00	-88.42	150	140	Vertical
6	5210.00	74.81	15.56	0.00	-74.81	150	140	Vertical

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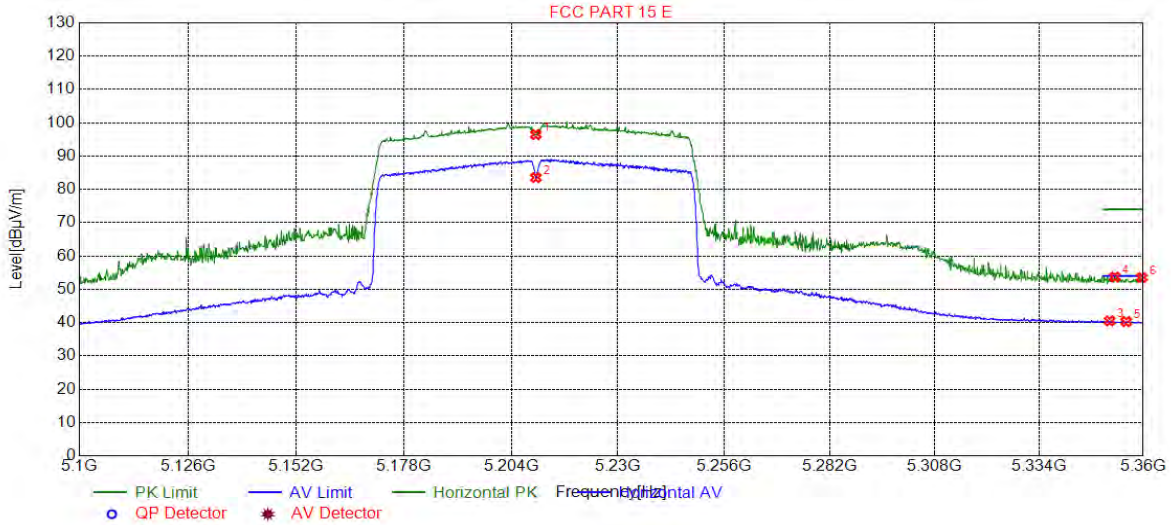
4.10.1.93 802.11AC80_Channel 42

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	96.46	15.56	0.00	-96.46	150	344	Horizontal
2	5210.00	83.53	15.56	0.00	-83.53	150	344	Horizontal
3	5351.67	40.54	15.95	54.00	13.46	150	344	Horizontal
4	5352.97	53.72	15.96	74.00	20.28	150	344	Horizontal
5	5355.83	40.33	15.98	54.00	13.67	150	344	Horizontal
6	5359.73	53.56	16.00	74.00	20.44	150	144	Horizontal

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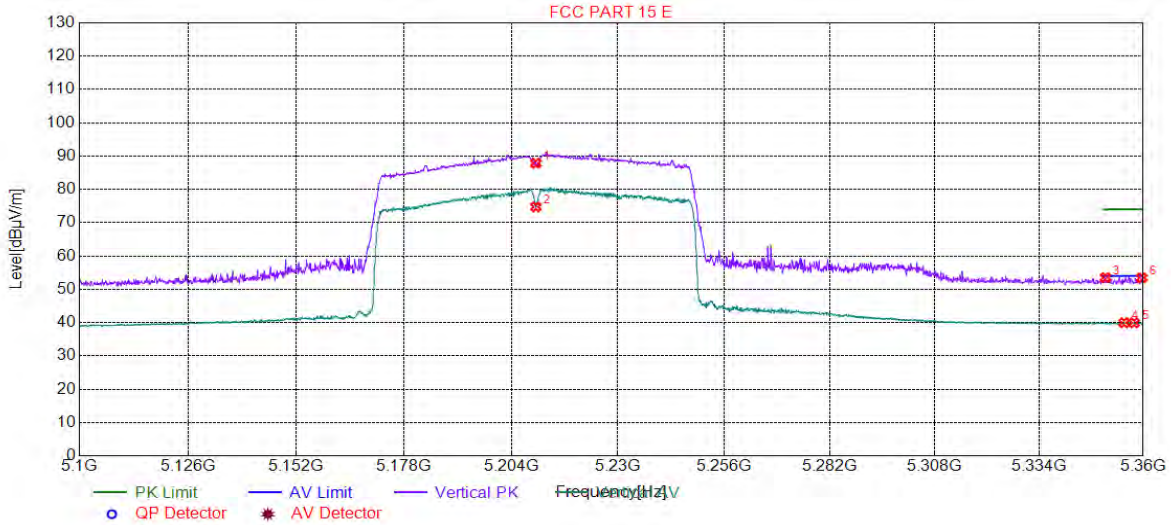
4.10.1.94 802.11AC80_Channel 42

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	87.84	15.56	0.00	-87.84	150	138	Vertical
2	5210.00	74.75	15.56	0.00	-74.75	150	145	Vertical
3	5350.63	53.55	15.94	74.00	20.45	150	42	Vertical
4	5355.31	40.00	15.97	54.00	14.00	150	164	Vertical
5	5357.78	39.95	15.99	54.00	14.05	150	213	Vertical
6	5359.73	53.48	16.00	74.00	20.52	150	323	Vertical

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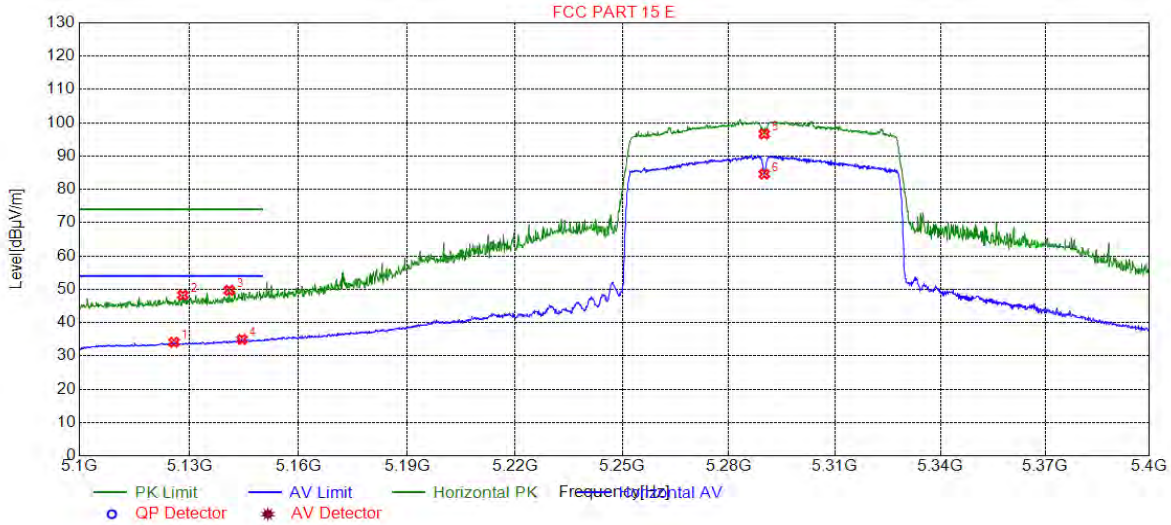
4.10.1.95 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5125.81	34.11	15.31	54.00	19.89	150	0	Horizontal
2	5128.21	48.26	15.33	74.00	25.74	150	8	Horizontal
3	5140.97	49.69	15.44	74.00	24.31	150	344	Horizontal
4	5144.42	34.99	15.47	54.00	19.01	150	2	Horizontal
5	5290.00	96.63	15.65	0.00	-96.63	150	344	Horizontal
6	5290.00	84.59	15.65	0.00	-84.59	150	344	Horizontal

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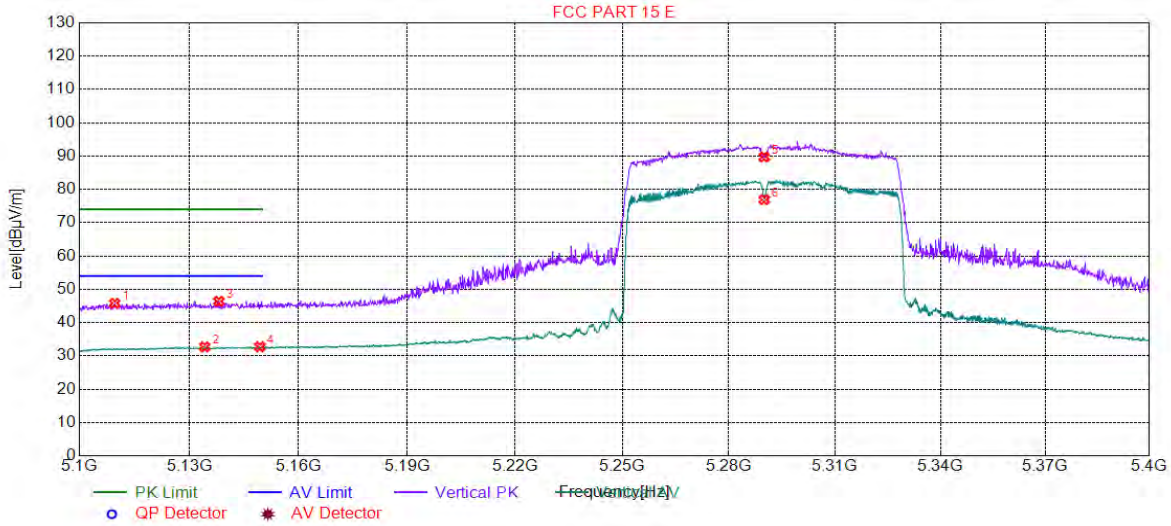
4.10.1.96 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.60	45.80	15.17	74.00	28.20	150	22	Vertical
2	5134.21	32.75	15.38	54.00	21.25	150	360	Vertical
3	5138.11	46.42	15.42	74.00	27.58	150	243	Vertical
4	5149.37	32.80	15.51	54.00	21.20	150	145	Vertical
5	5290.00	89.72	15.65	0.00	-89.72	150	152	Vertical
6	5290.00	76.95	15.65	0.00	-76.95	150	145	Vertical

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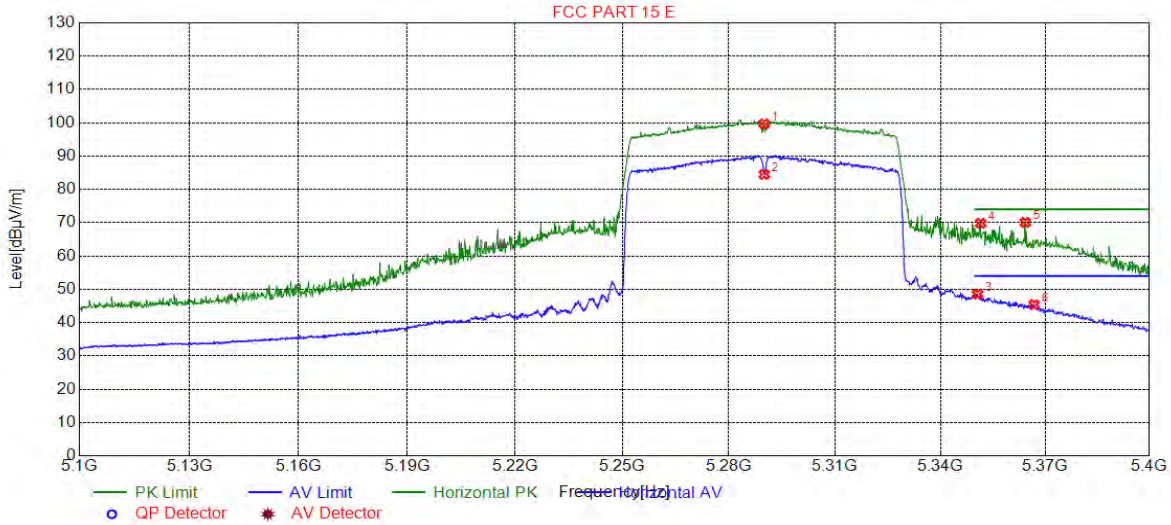
4.10.1.97 802.11AC80_Channel 58

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	99.70	15.65	0.00	-99.70	150	344	Horizontal
2	5290.00	84.49	15.65	0.00	-84.49	150	344	Horizontal
3	5350.62	48.58	15.94	54.00	5.42	150	344	Horizontal
4	5351.52	69.85	15.95	74.00	4.15	150	344	Horizontal
5	5364.28	70.10	16.03	74.00	3.90	150	332	Horizontal
6	5366.83	45.43	16.04	54.00	8.57	150	344	Horizontal

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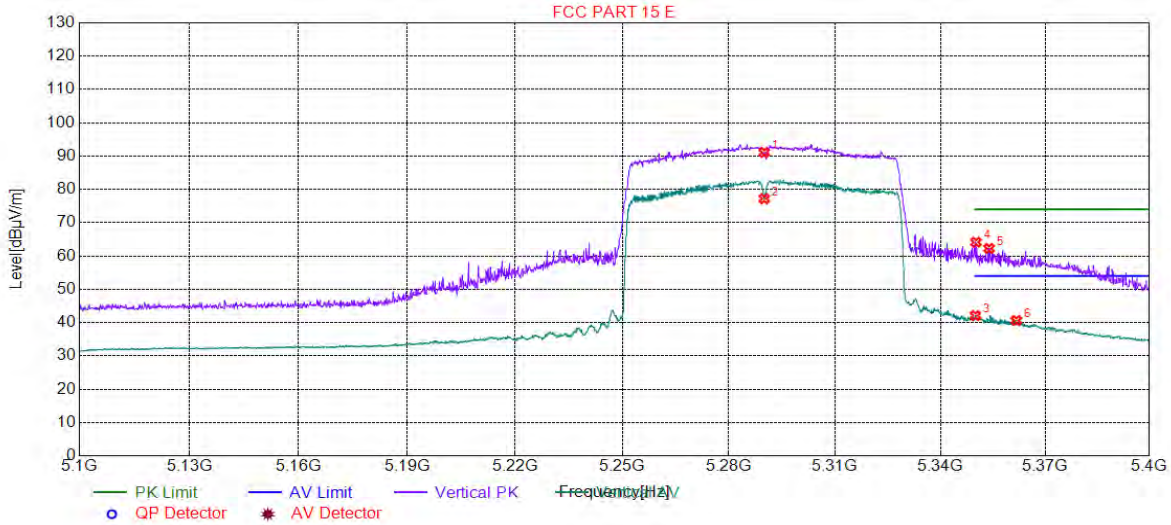
4.10.1.98 802.11AC80_Channel 58

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	91.12	15.65	0.00	-91.12	150	167	Vertical
2	5290.00	77.21	15.65	0.00	-77.21	150	251	Vertical
3	5350.02	42.13	15.94	54.00	11.87	150	160	Vertical
4	5350.17	64.17	15.94	74.00	9.83	150	64	Vertical
5	5353.92	62.29	15.96	74.00	11.71	150	50	Vertical
6	5361.73	40.66	16.01	54.00	13.34	150	160	Vertical

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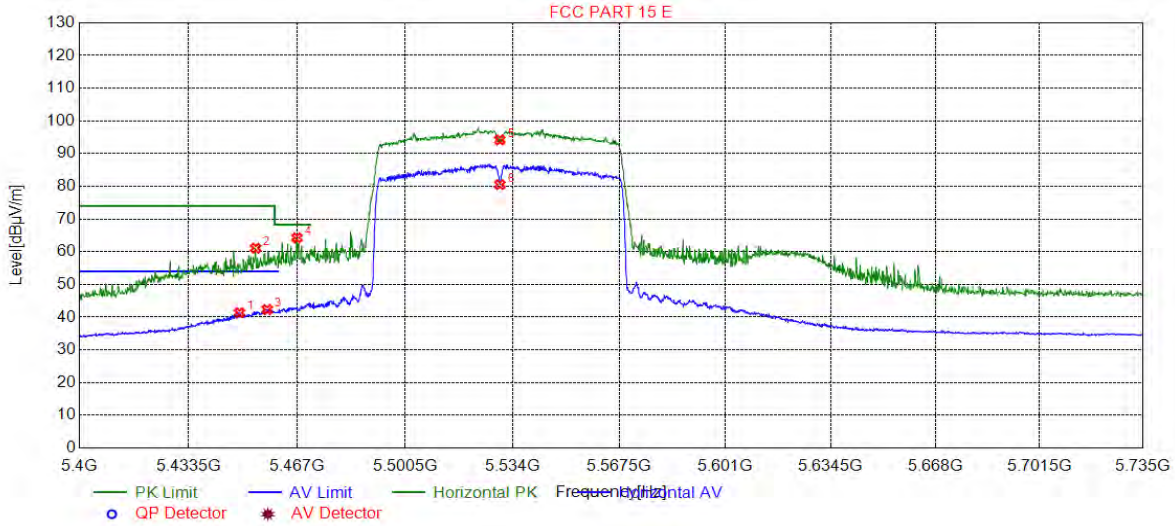
4.10.1.99 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
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1	5449.10	41.36	16.25	54.00	12.64	150	344	Horizontal
2	5454.12	61.11	16.25	74.00	12.89	150	344	Horizontal
3	5457.64	42.34	16.25	54.00	11.66	150	344	Horizontal
4	5466.86	64.27	16.25	68.30	4.03	150	0	Horizontal
5	5530.00	94.22	16.35	0.00	-94.22	150	317	Horizontal
6	5530.00	80.53	16.35	0.00	-80.53	150	338	Horizontal

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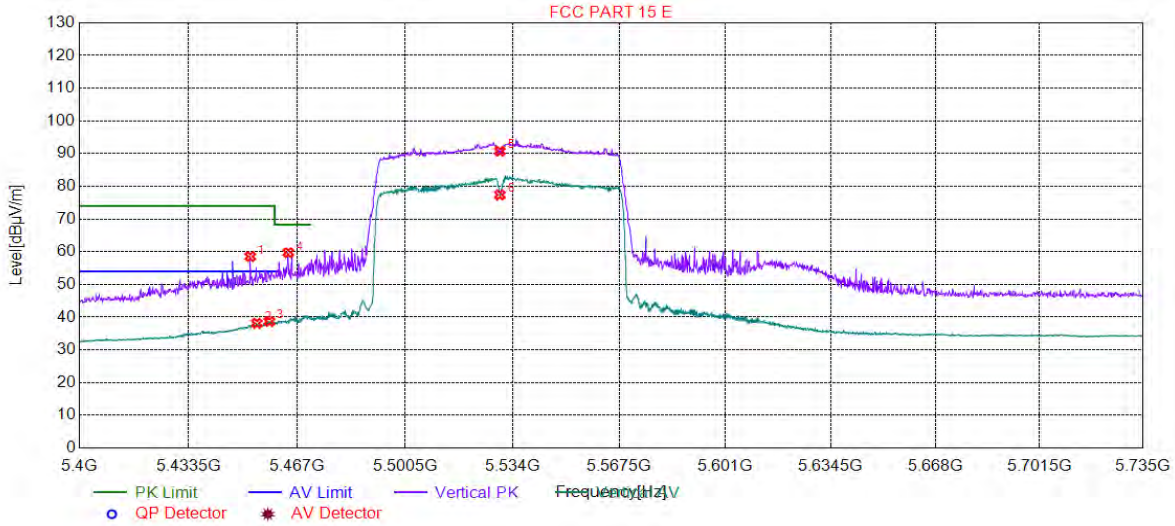
4.10.1.100 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5452.45	58.55	16.25	74.00	15.45	150	104	Vertical
2	5454.46	38.14	16.25	54.00	15.86	150	159	Vertical
3	5458.31	38.70	16.25	54.00	15.30	150	249	Vertical
4	5464.18	59.75	16.25	68.30	8.55	150	29	Vertical
5	5530.00	90.75	16.35	0.00	-90.75	150	50	Vertical
6	5530.00	77.41	16.35	0.00	-77.41	150	159	Vertical

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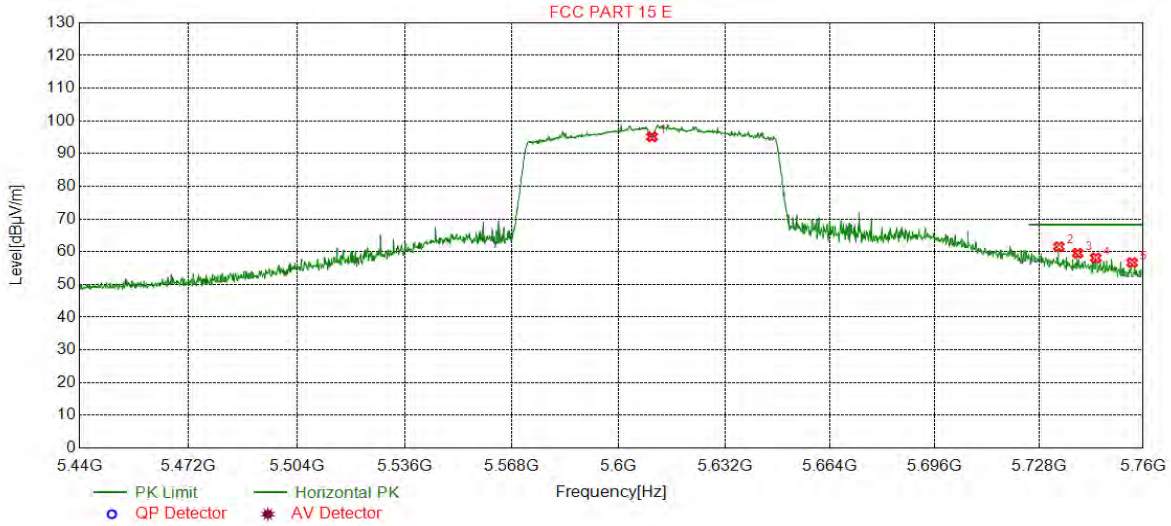
4.10.1.101 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List								
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1	5610.00	95.16	16.58	0.00	-95.16	150	335	Horizontal
2	5734.06	61.55	17.02	68.30	6.75	150	312	Horizontal
3	5739.82	59.56	17.05	68.30	8.74	150	6	Horizontal
4	5745.43	58.12	17.09	68.30	10.18	150	344	Horizontal
5	5756.63	56.69	17.13	68.30	11.61	150	344	Horizontal

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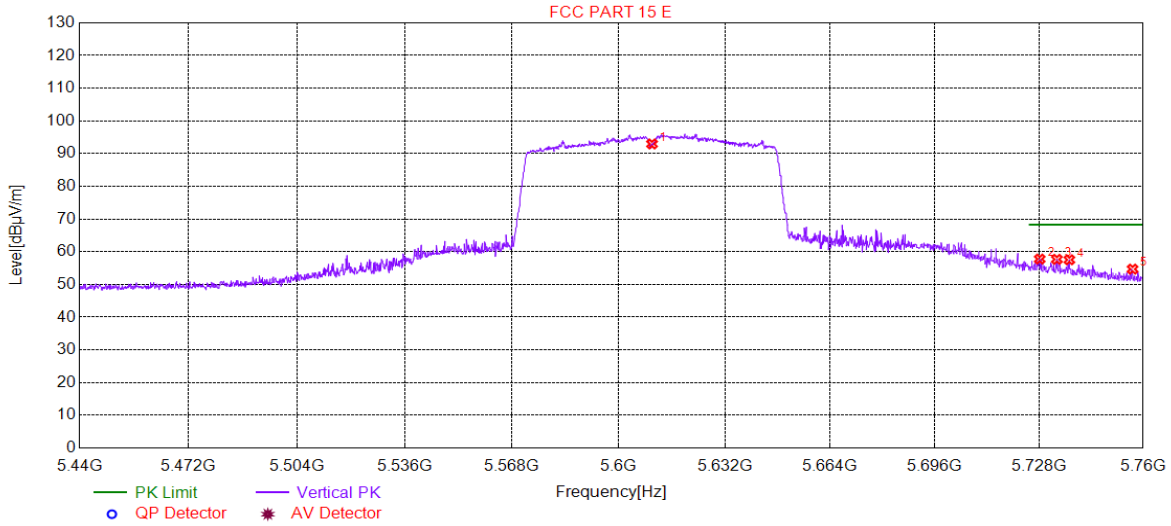
4.10.1.102 802.11AC80_Channel 122

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	92.97	16.58	0.00	-92.97	150	163	Vertical
2	5728.14	57.78	16.98	68.30	10.52	150	293	Vertical
3	5733.42	57.69	17.01	68.30	10.61	150	163	Vertical
4	5737.26	57.55	17.04	68.30	10.75	150	144	Vertical
5	5756.79	54.70	17.13	68.30	13.60	150	29	Vertical

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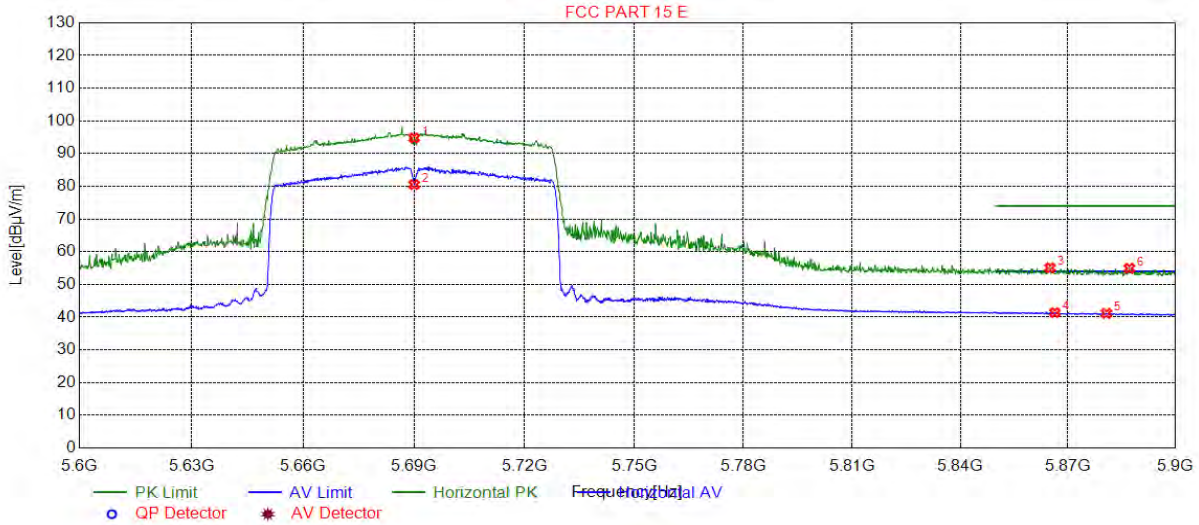
4.10.1.103 802.11AC80_Channel 138

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	94.77	16.75	0.00	-94.77	150	344	Horizontal
2	5690.00	80.53	16.75	0.00	-80.53	150	323	Horizontal
3	5865.03	55.11	17.21	74.00	18.89	150	337	Horizontal
4	5866.38	41.41	17.21	54.00	12.59	150	14	Horizontal
5	5880.79	41.17	17.17	54.00	12.83	150	130	Horizontal
6	5887.24	54.95	17.15	74.00	19.05	150	234	Horizontal

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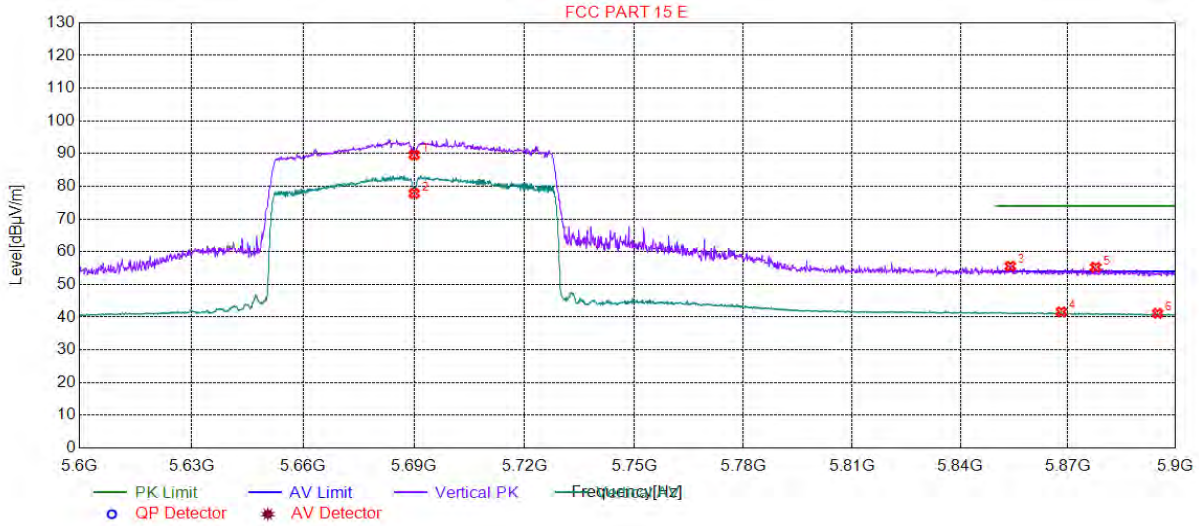
4.10.1.104 802.11AC80_Channel 138

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	89.61	16.75	0.00	-89.61	150	35	Vertical
2	5690.00	77.86	16.75	0.00	-77.86	150	250	Vertical
3	5853.92	55.60	17.25	74.00	18.40	150	299	Vertical
4	5868.18	41.63	17.21	54.00	12.37	150	152	Vertical
5	5877.78	55.28	17.18	74.00	18.72	150	62	Vertical
6	5895.19	41.17	17.12	54.00	12.83	150	49	Vertical

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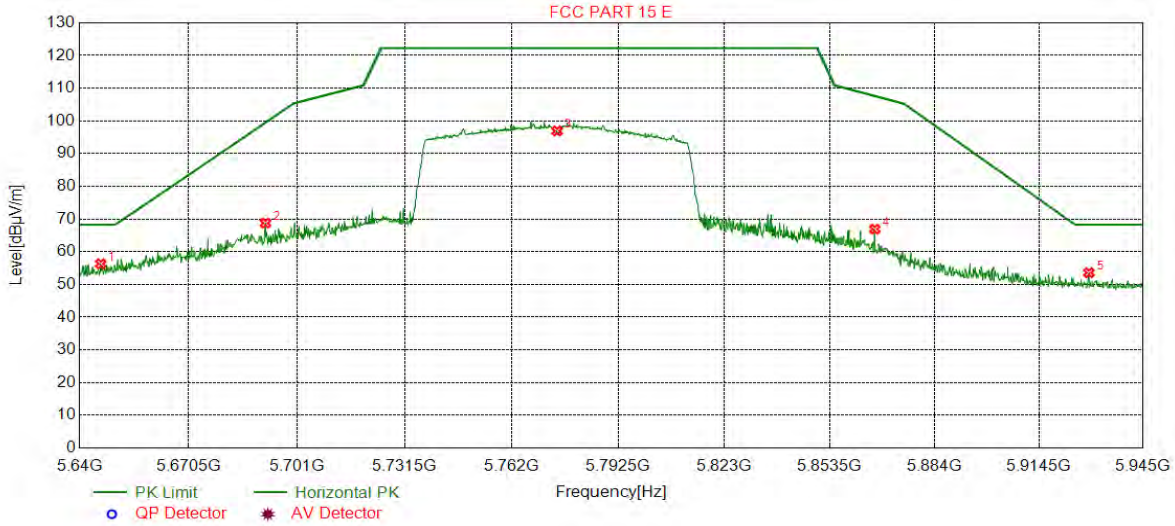
4.10.1.105 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.95	56.34	16.53	68.30	11.96	150	298	Horizontal
2	5692.18	68.79	16.76	99.51	30.72	150	7	Horizontal
3	5775.00	96.95	17.16	122.30	25.35	150	331	Horizontal
4	5866.57	66.91	17.21	107.66	40.75	150	335	Horizontal
5	5929.13	53.60	17.56	68.30	14.70	150	331	Horizontal

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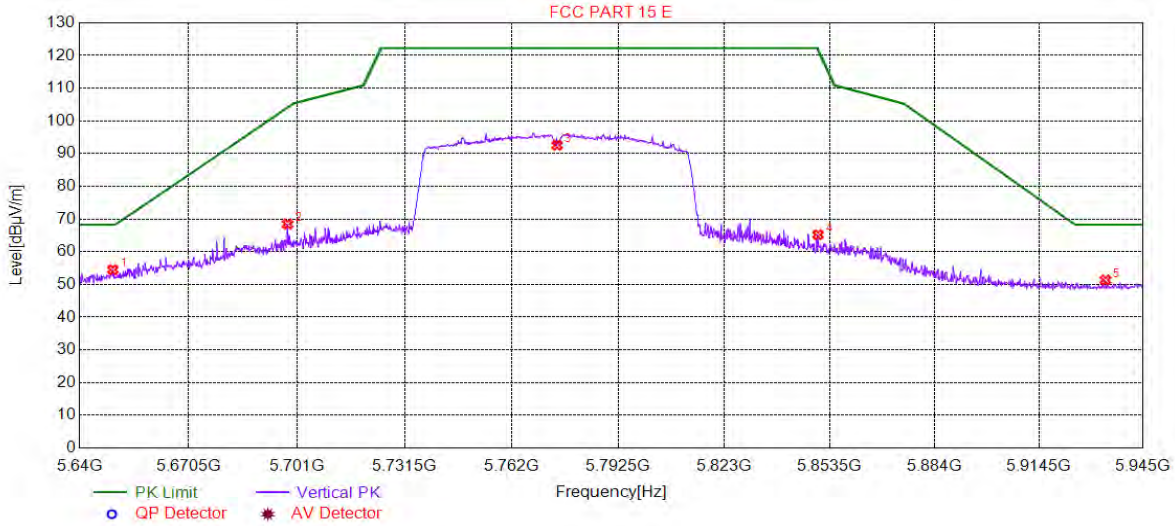
4.10.1.106 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5649.30	54.54	16.53	68.30	13.76	150	140	Vertical
2	5698.43	68.47	16.79	104.14	35.67	150	254	Vertical
3	5775.00	92.57	17.16	122.30	29.73	150	245	Vertical
4	5850.09	65.22	17.26	122.08	56.86	150	93	Vertical
5	5934.01	51.35	17.63	68.30	16.95	150	227	Vertical

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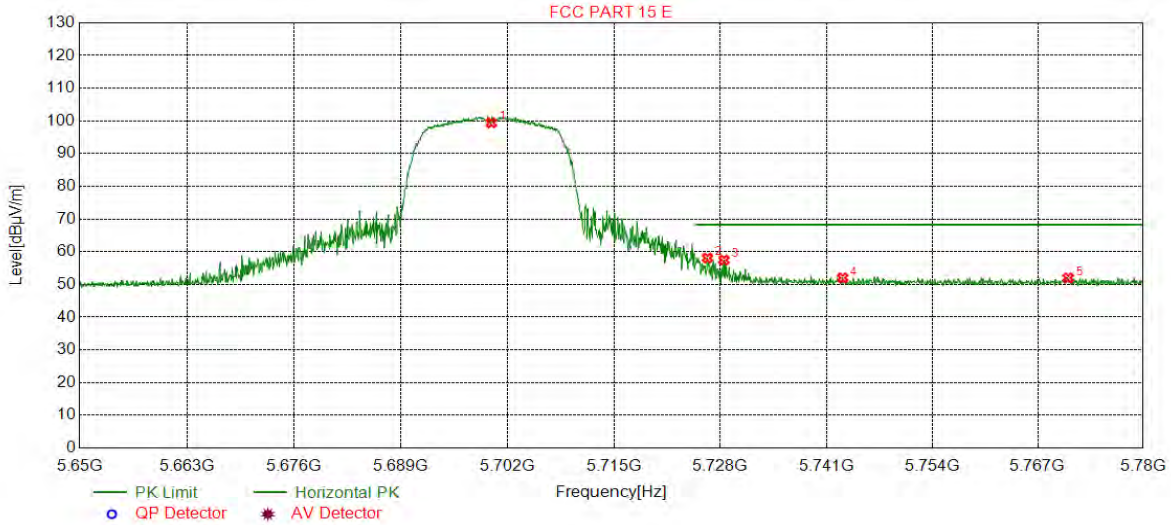
Test on the worst case:

4.10.1.107 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List					
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5700.0000	99.41	0.00	-99.41	Horizontal
2	5726.4132	58.10	68.30	10.20	Horizontal
3	5728.4292	57.49	68.30	10.81	Horizontal
4	5742.9965	52.02	68.30	16.28	Horizontal
5	5770.7654	52.02	68.30	16.28	Horizontal

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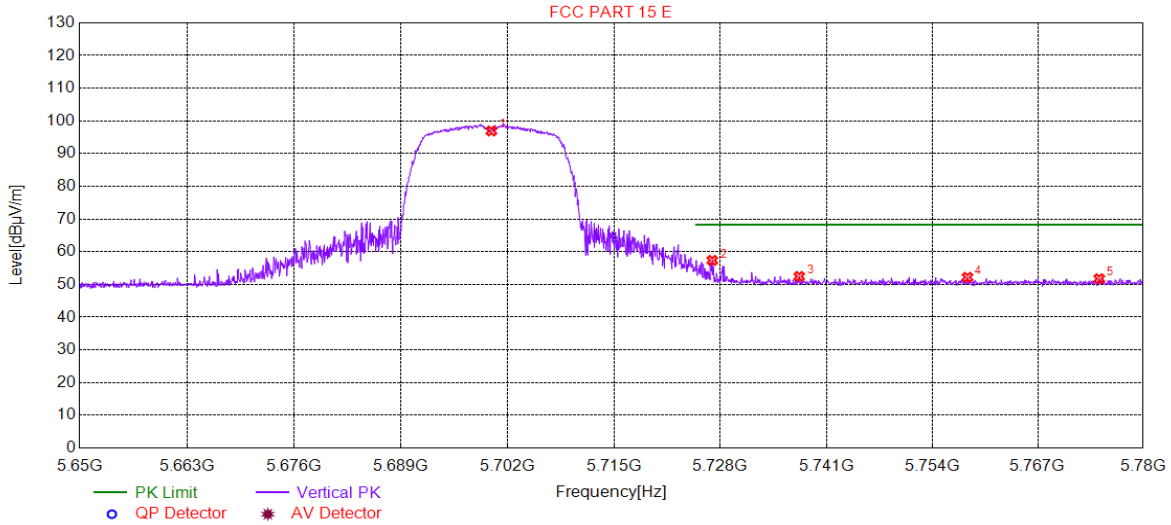
4.10.1.108 802.11AC20_Channel 140

Test Graph



Suspected List

Suspected List					
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5700.0000	96.95	0.00	-96.95	Vertical
2	5726.9985	57.36	68.30	10.94	Vertical
3	5737.6638	52.46	68.30	15.84	Vertical
4	5758.3442	52.20	68.30	16.10	Vertical
5	5774.6023	51.77	68.30	16.53	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)	5180.005286	5825.004291
V max(V)	5180.007935	5825.007229
V min(V)	5180.017541	5825.014933
Max. Deviation Frequency	0.017541	0.014933
Max. Frequency Error (ppm)	3.386349	2.563672

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.003503	5825.006070
5	5180.012403	5825.009007
15	5180.016246	5825.013683
25	5180.021083	5825.017991
35	5180.028872	5825.026206
45	5180.034291	5825.034004
50	5180.043380	5825.043494
Max. Deviation Frequency	0.043380	0.043494
Max. Frequency Error (ppm)	8.374421	7.466771

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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	**Value (See Notes 1, 2, and 3)**
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	**Value**
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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4.13 DFS Detection Thresholds

4.13.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.76	-61.00	PASS
	5500	Type0	-61.40	-61.00	PASS
11AC80SISO	5290	Type0	-63.93	-61.00	PASS
	5530	Type0	-61.11	-61.00	PASS

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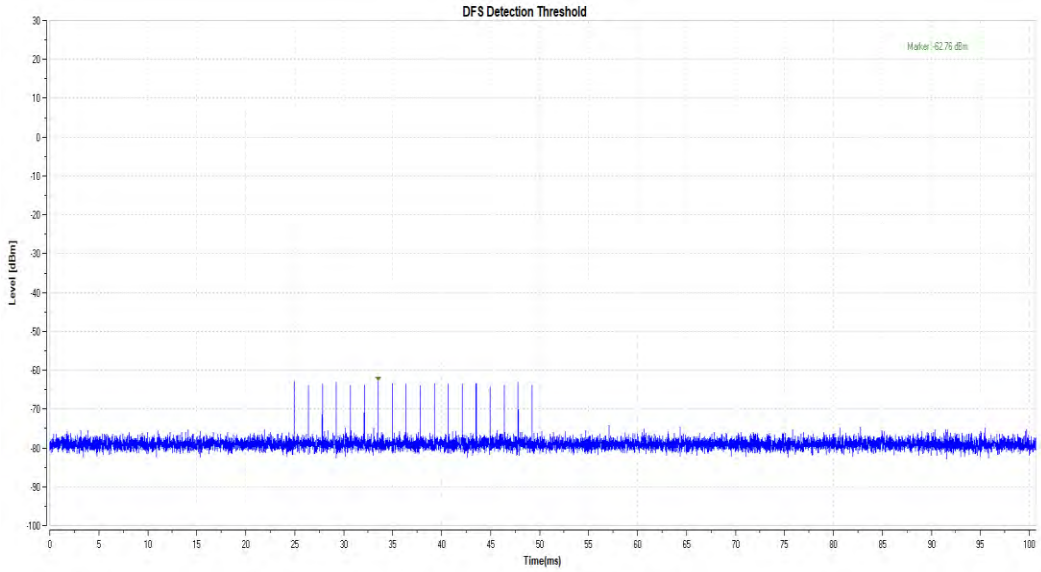
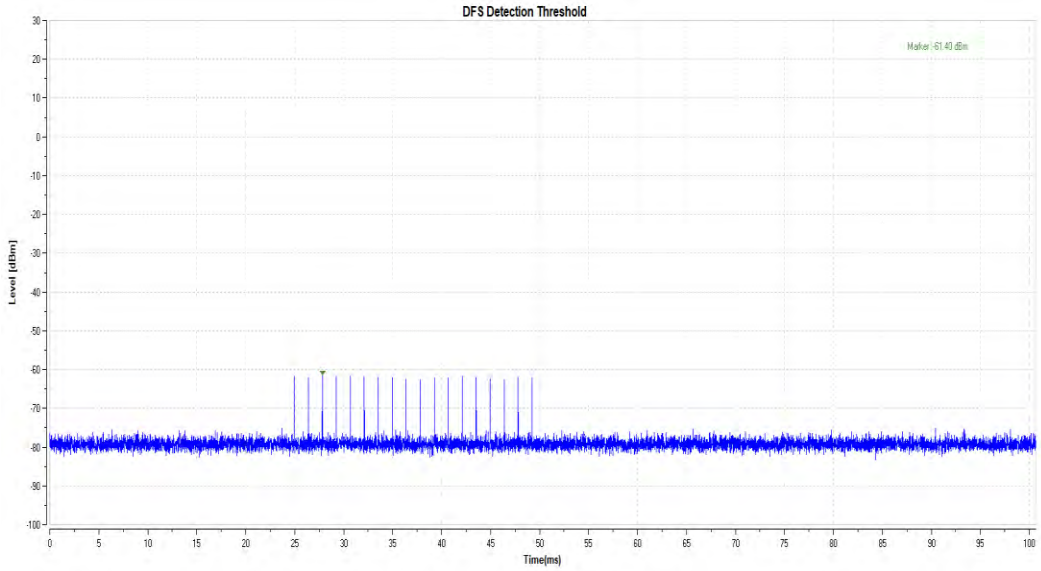
4.13.2 Test Graphs

11AC20SISO_5320_Type0



11AC20SISO_5500_Type0



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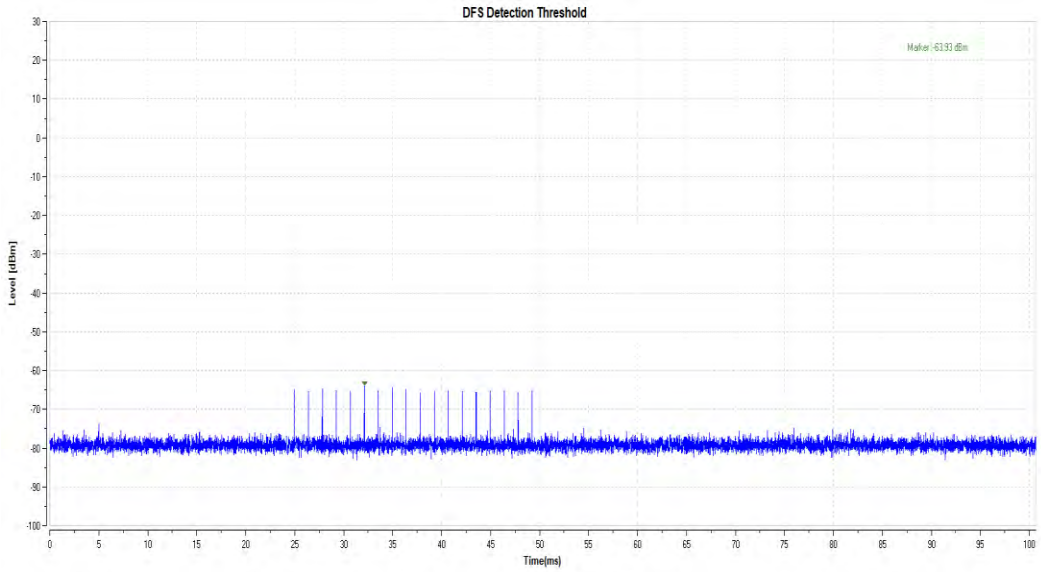
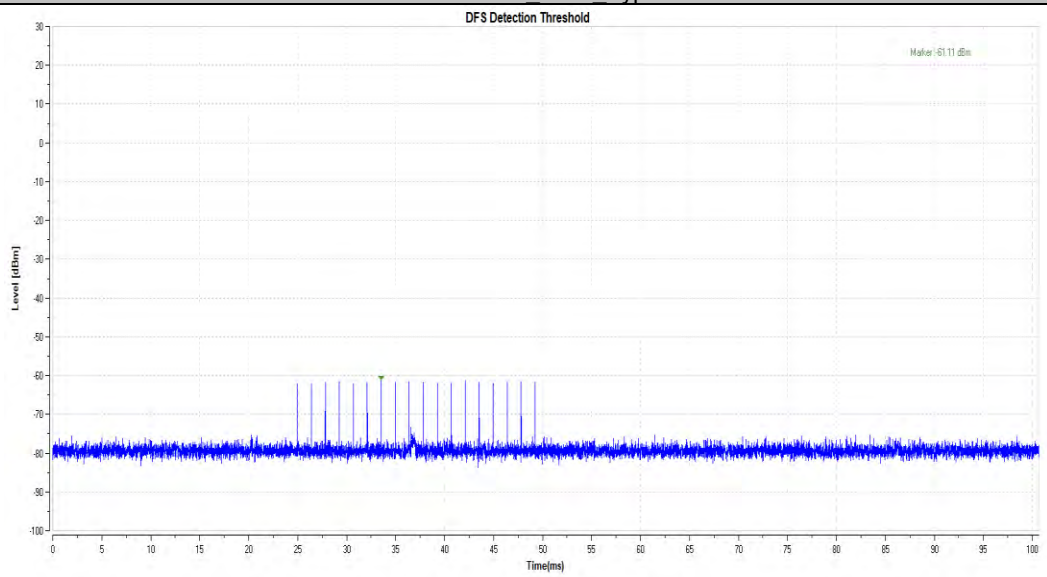
11AC80SISO_5290_Type0



11AC80SISO_5530_Type0



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4.14 Channel Move Time and Channel Closing Transmission Time

4.14.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	0	60	68.9	10000	PASS
	5500	0	60	196.3	10000	PASS
11AC80SISO	5290	41.6	60	284.7	10000	PASS
	5530	0	60	392.6	10000	PASS

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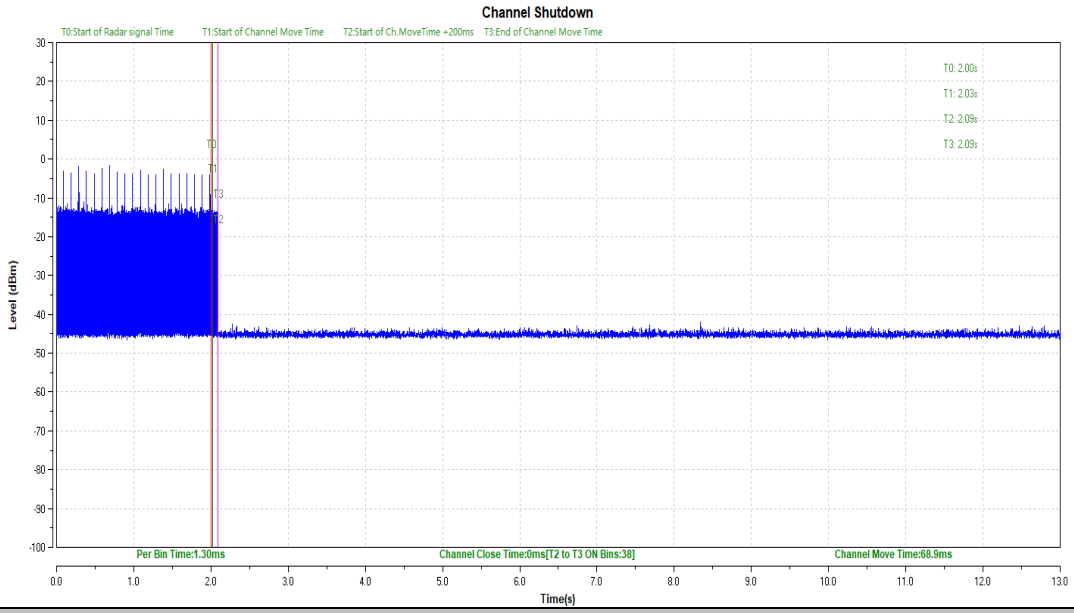
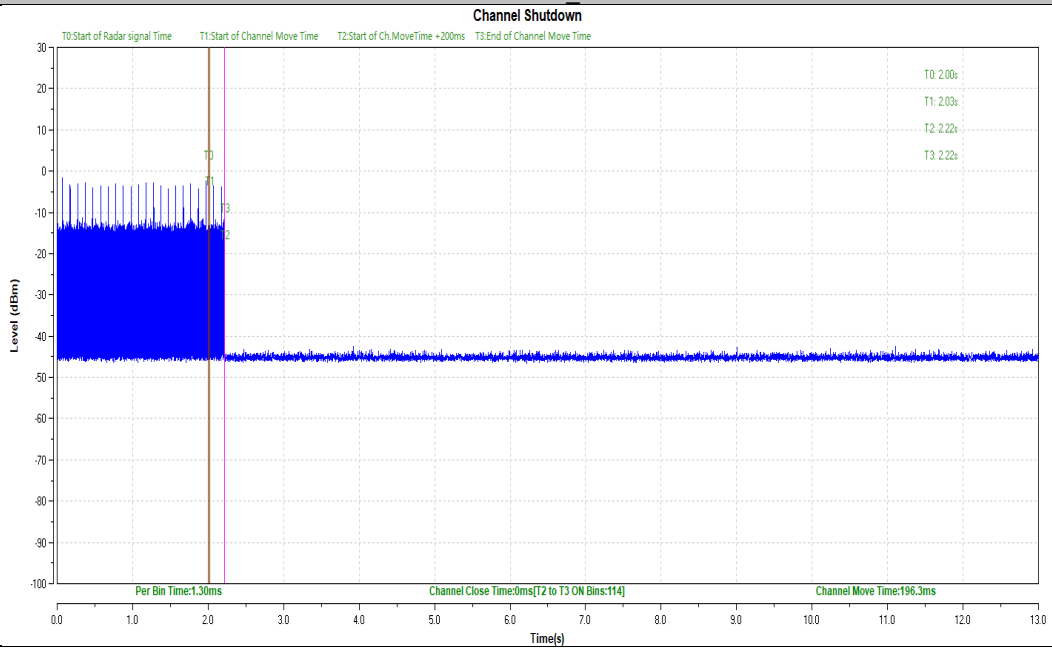
4.14.2 Test Graphs

11AC20SISO_5320



11AC20SISO_5500



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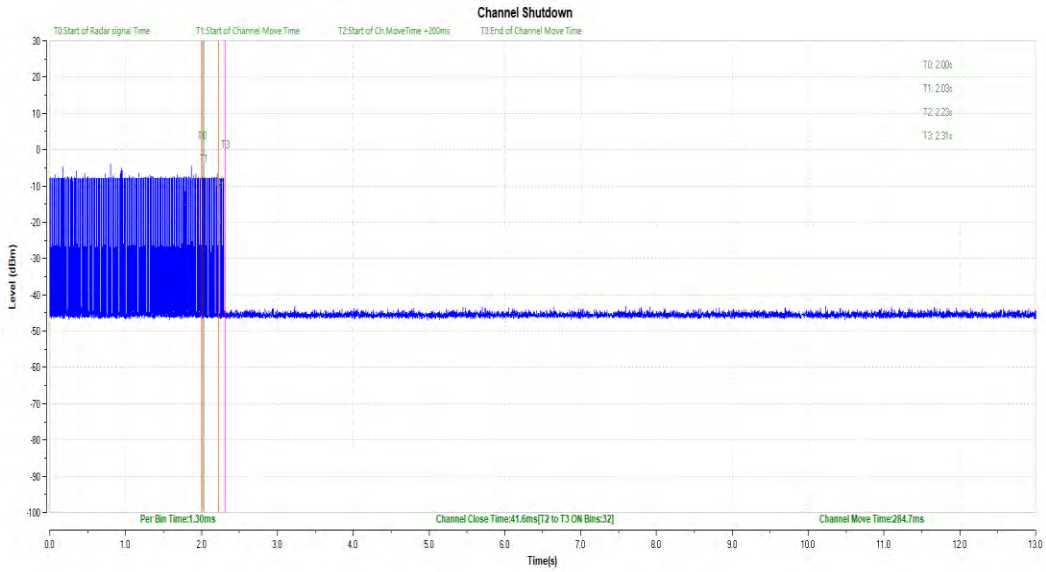
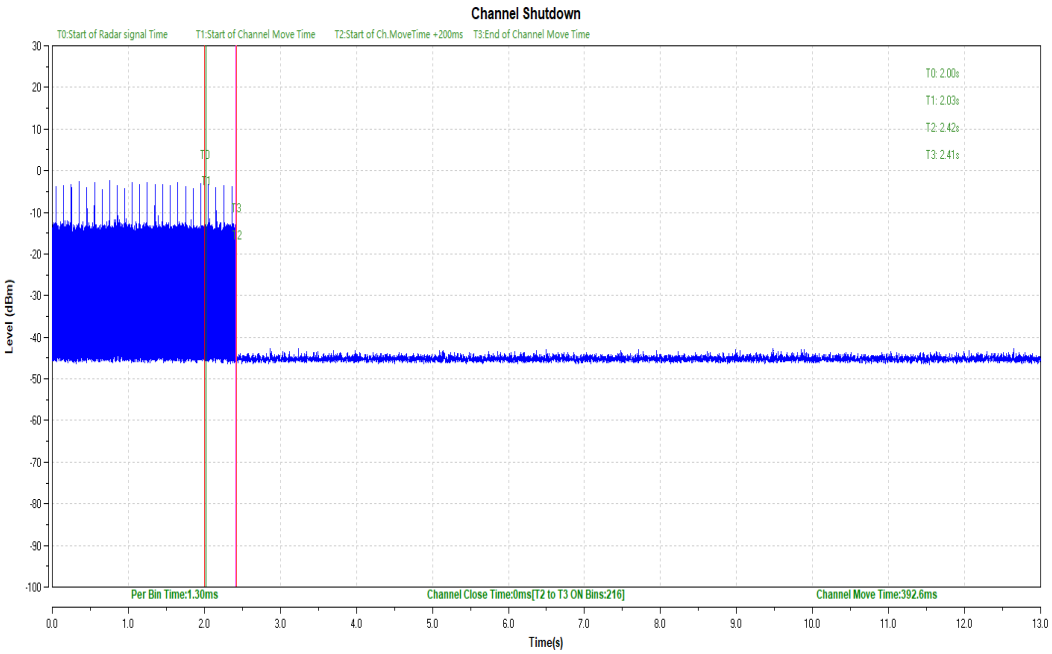
11AC80SISO_5290



11AC80SISO_5530



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4.15 Non-Occupancy Period

4.15.1 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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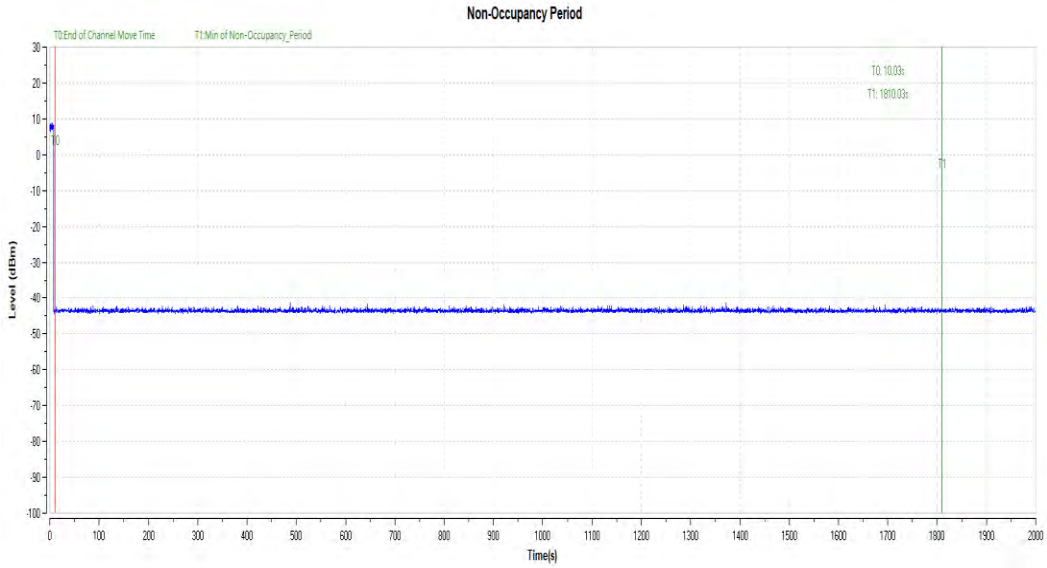
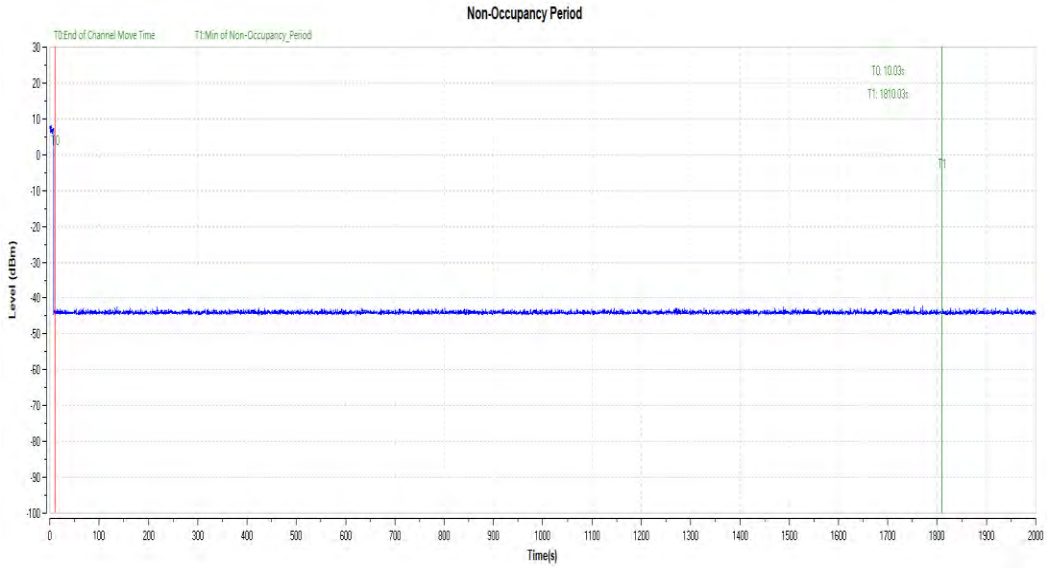
4.15.2 Test Graphs

11AC20SISO_5320



11AC20SISO_5500



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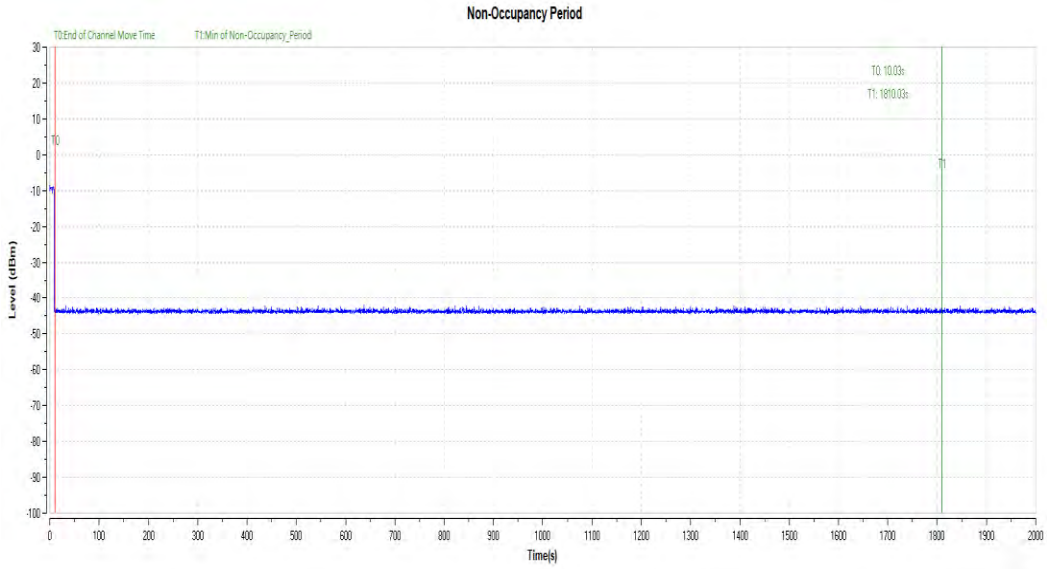
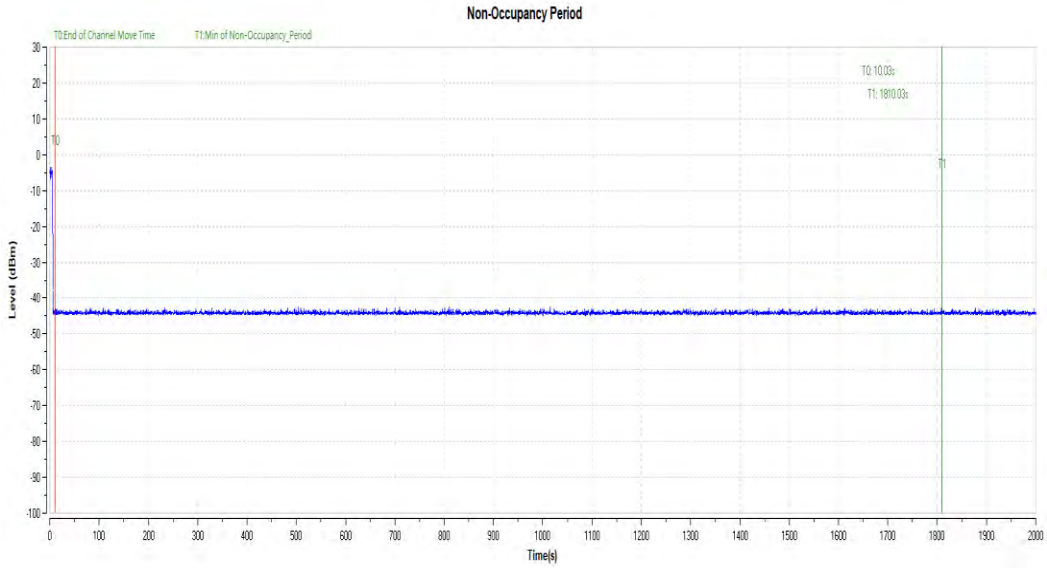
11AC80SISO_5290



11AC80SISO_5530



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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	2018/413	2021/412
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 AR/2020/80005.

The End

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