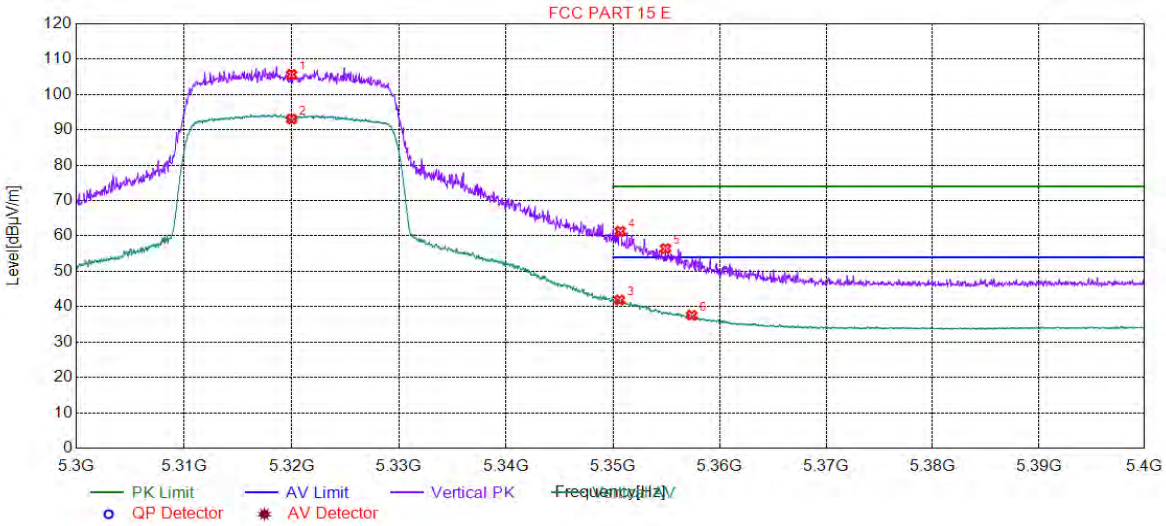
4.10.1.97 11AX20_64_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	105.66	15.80	0.00	-105.66	249	70	Vertical
2	5320.0000	93.05	15.80	0.00	-93.05	232	257	Vertical
3	5350.6253	41.89	15.94	54.00	12.11	235	22	Vertical
4	5350.6753	61.35	15.94	74.00	12.65	214	188	Vertical
5	5354.9275	56.46	15.97	74.00	17.54	299	70	Vertical
6	5357.3787	37.57	15.99	54.00	16.43	199	30	Vertical

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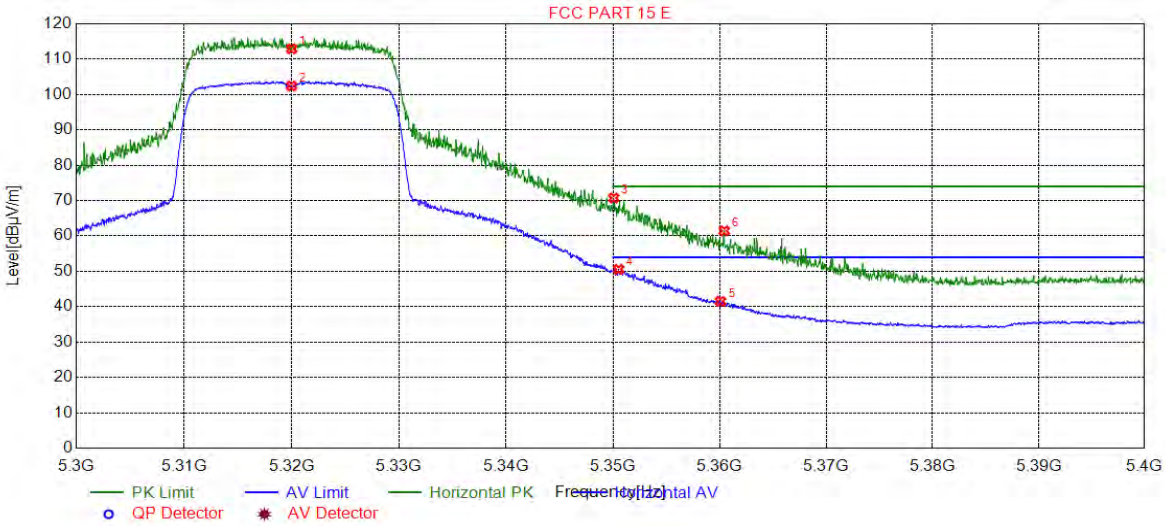
4.10.1.98 11AX20_64_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.0000	112.92	15.80	0.00	-112.92	103	194	Horizontal
2	5320.0000	102.40	15.80	0.00	-102.40	110	222	Horizontal
3	5350.0750	70.74	15.94	74.00	3.26	136	201	Horizontal
4	5350.5253	50.56	15.94	54.00	3.44	130	222	Horizontal
5	5360.0800	41.52	16.00	54.00	12.48	160	222	Horizontal
6	5360.4302	61.45	16.00	74.00	12.55	112	215	Horizontal

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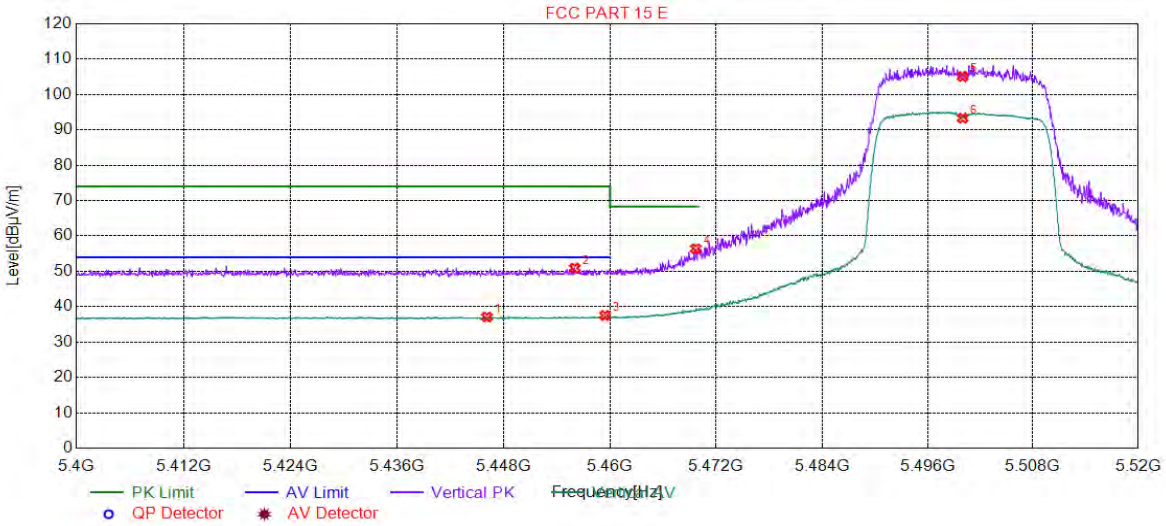
4.10.1.99 11AX20_100_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.1031	37.09	16.25	54.00	16.91	236	62	Vertical
2	5456.0080	50.92	16.25	74.00	23.08	185	143	Vertical
3	5459.4297	37.53	16.25	54.00	16.47	188	36	Vertical
4	5469.6948	56.42	16.25	68.30	11.88	208	182	Vertical
5	5500.0000	105.07	16.25	0.00	-105.07	209	188	Vertical
6	5500.0000	93.32	16.25	0.00	-93.32	268	41	Vertical

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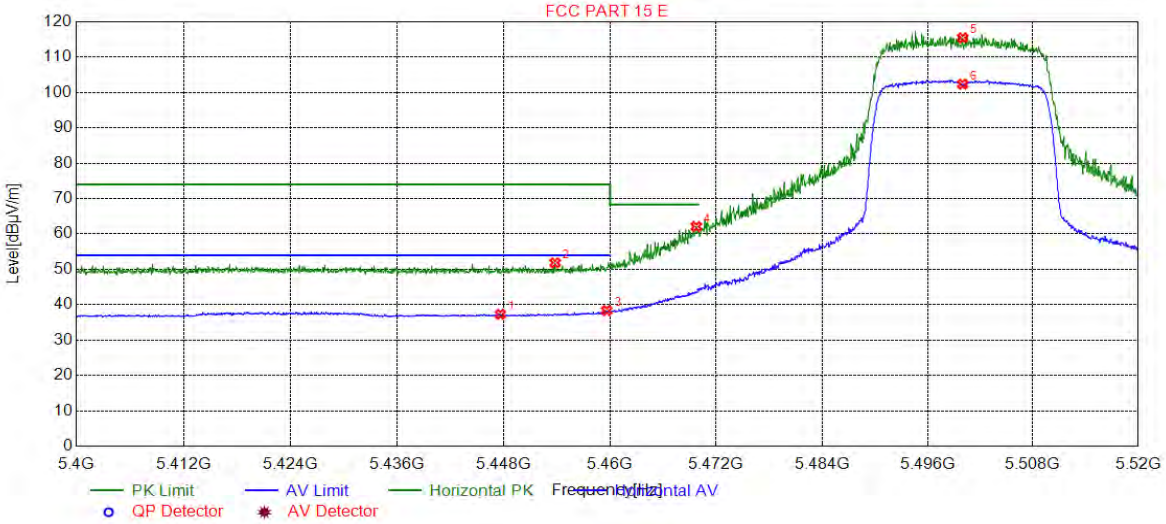
4.10.1.100 11AX20_100_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.6038	37.32	16.25	54.00	16.68	176	226	Horizontal
2	5453.7869	51.83	16.25	74.00	22.17	159	216	Horizontal
3	5459.6098	38.34	16.25	54.00	15.66	191	221	Horizontal
4	5469.7549	62.10	16.25	68.30	6.20	242	221	Horizontal
5	5500.0000	115.46	16.25	0.00	-115.46	136	216	Horizontal
6	5500.0000	102.38	16.25	0.00	-102.38	173	221	Horizontal

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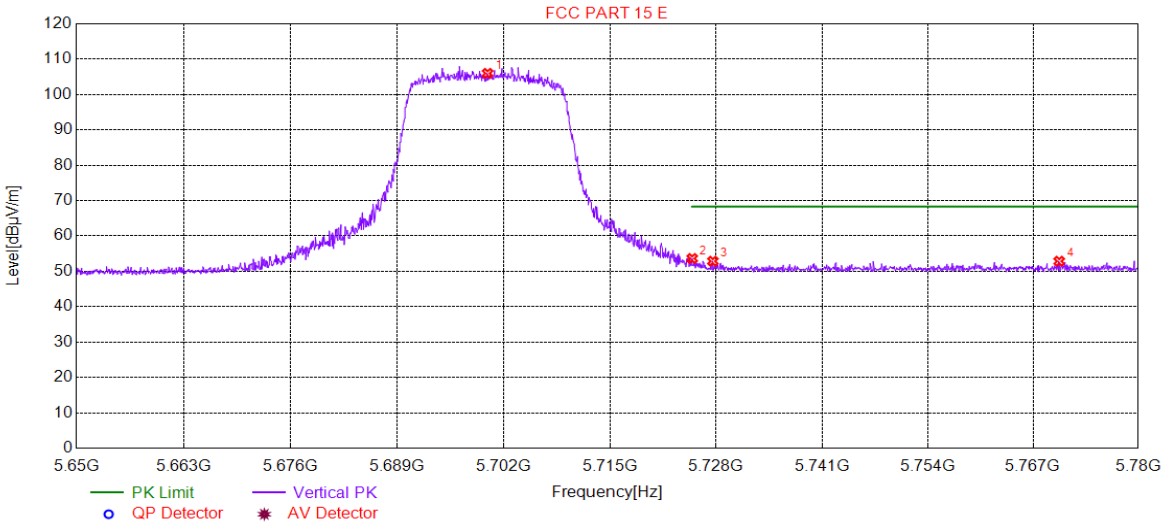
4.10.1.101 11AX20_140_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	105.99	16.80	0.00	-105.99	289	185	Vertical
2	5725.0475	53.64	16.96	68.30	14.66	169	176	Vertical
3	5727.5838	52.87	16.98	68.30	15.43	168	190	Vertical
4	5770.2451	52.86	17.15	68.30	15.44	295	47	Vertical

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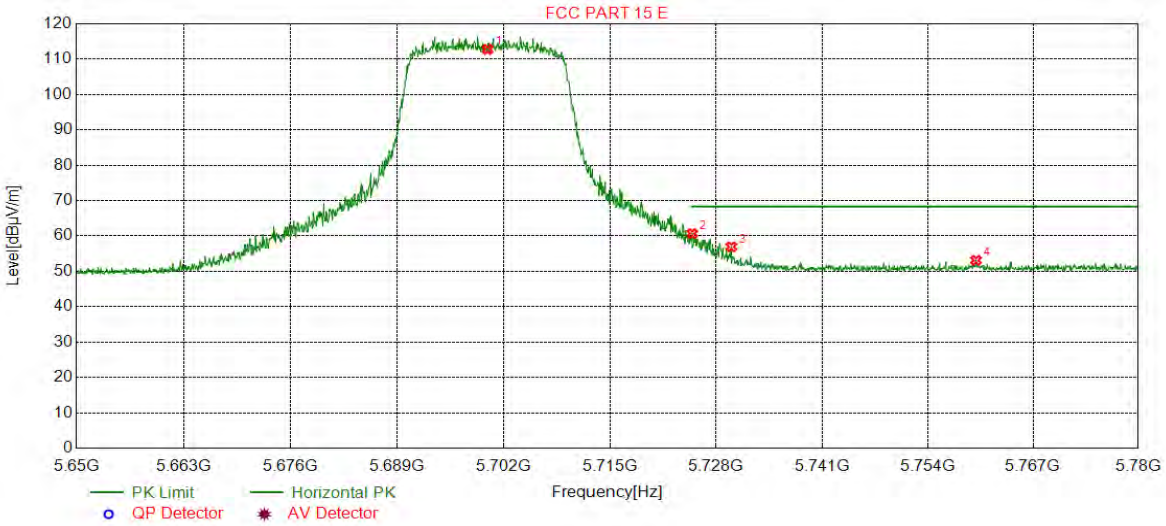
4.10.1.102 11AX20_140_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.0000	112.74	16.80	0.00	-112.74	120	220	Horizontal
2	5725.0475	60.69	16.96	68.30	7.61	125	220	Horizontal
3	5729.8599	56.96	16.99	68.30	11.34	102	216	Horizontal
4	5759.9700	53.13	17.13	68.30	15.17	208	220	Horizontal

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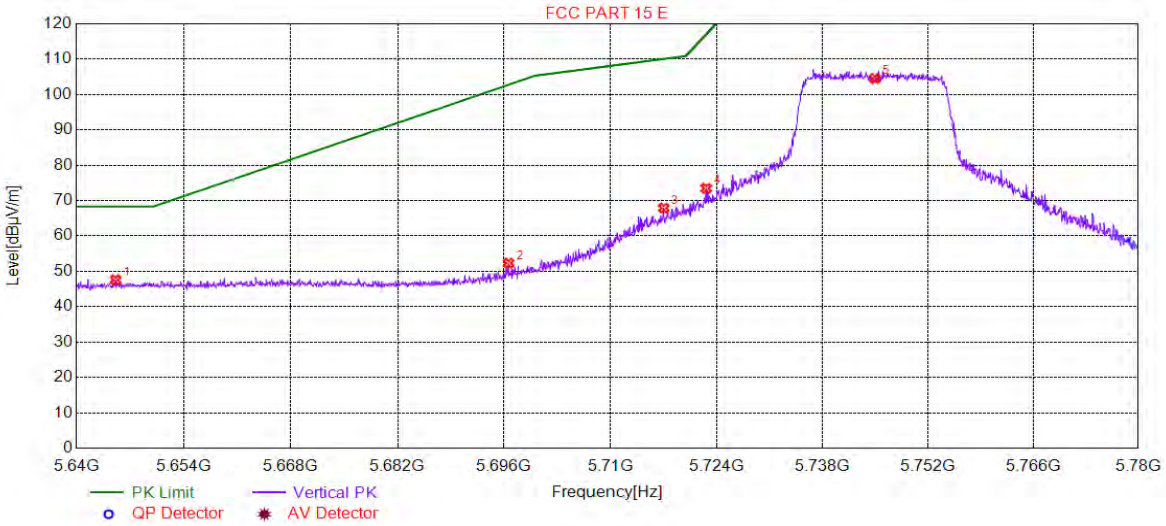
4.10.1.103 11AX20_149_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.1126	47.61	16.54	68.30	20.69	253	52	Vertical
2	5696.5883	52.30	16.78	102.78	50.48	232	176	Vertical
3	5717.0385	67.90	16.91	110.07	42.17	228	180	Vertical
4	5722.6413	73.49	16.94	116.92	43.43	282	189	Vertical
5	5745.0000	104.50	17.09	0.00	-104.50	190	208	Vertical

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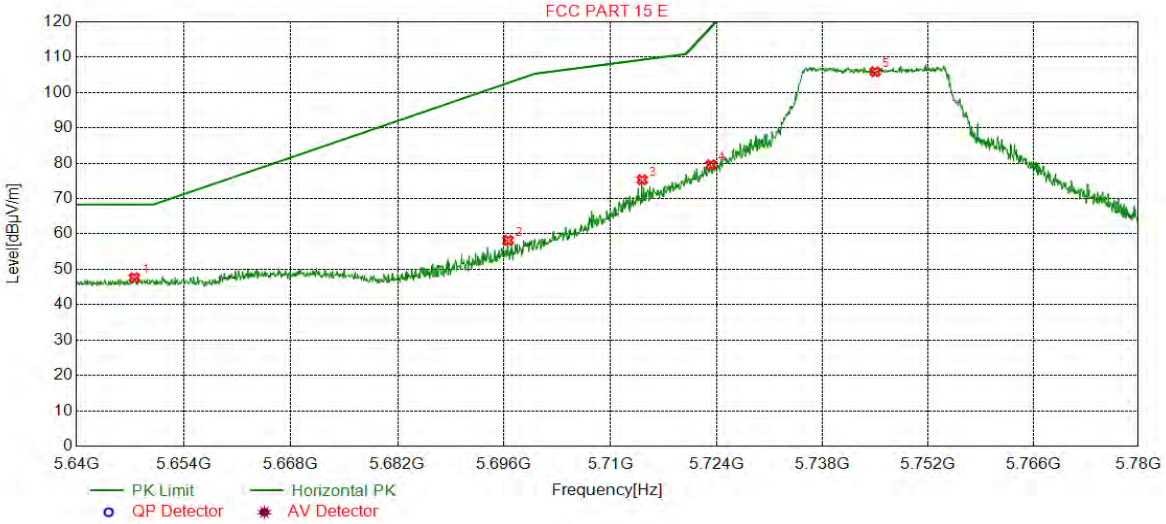
4.10.1.104 11AX20_149_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.5638	47.64	16.53	68.30	20.66	127	344	Horizontal
2	5696.5183	58.20	16.78	102.72	44.52	116	199	Horizontal
3	5714.1671	75.31	16.89	109.27	33.96	229	218	Horizontal
4	5723.2716	79.55	16.95	118.36	38.81	151	223	Horizontal
5	5745.0000	105.89	17.09	0.00	-105.89	156	245	Horizontal

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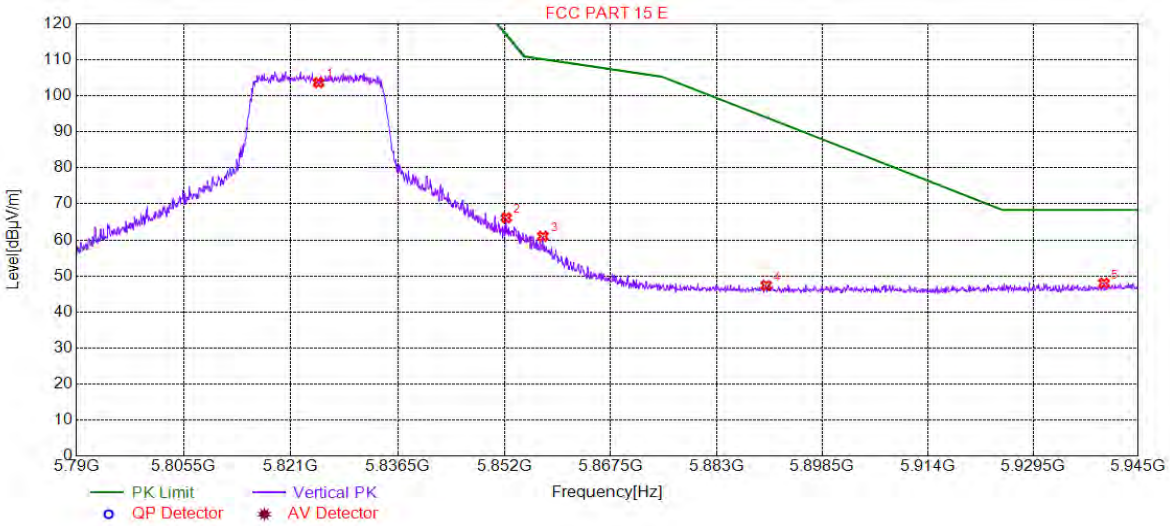
4.10.1.105 11AX20_161_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	103.66	17.23	0.00	-103.66	151	84	Vertical
2	5852.2636	66.15	17.25	117.14	50.99	199	181	Vertical
3	5857.6138	61.01	17.24	110.17	49.16	156	199	Vertical
4	5890.2576	47.41	17.14	94.01	46.60	264	291	Vertical
5	5939.9600	48.01	17.73	68.30	20.29	253	74	Vertical

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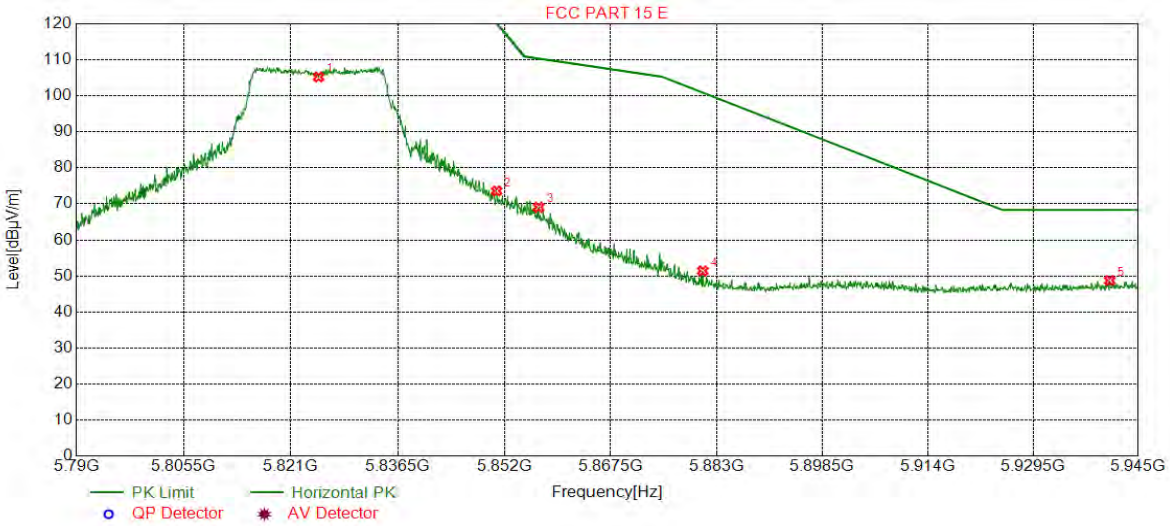
4.10.1.106 11AX20_161_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	105.23	17.23	0.00	-105.23	116	225	Horizontal
2	5850.8679	73.58	17.26	120.32	46.74	140	216	Horizontal
3	5856.9935	69.08	17.24	110.34	41.26	112	216	Horizontal
4	5880.9530	51.39	17.17	100.89	49.50	125	221	Horizontal
5	5940.8129	48.72	17.74	68.30	19.58	134	212	Horizontal

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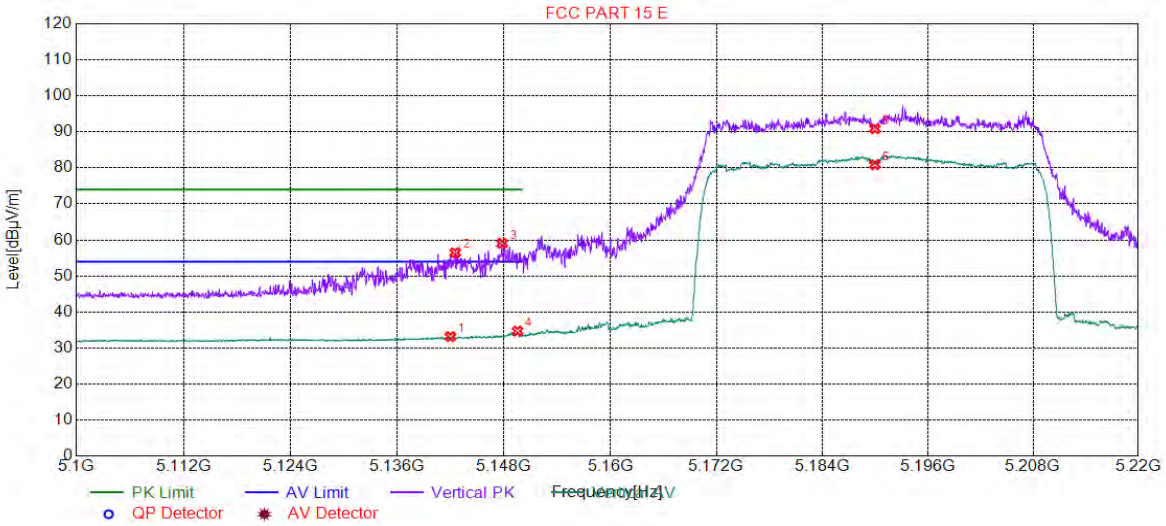
4.10.1.107 11AX40_38_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5141.9610	33.15	15.45	54.00	20.85	255	14	Vertical
2	5142.5013	56.47	15.46	74.00	17.53	204	18	Vertical
3	5147.7839	59.05	15.50	74.00	14.95	232	144	Vertical
4	5149.5248	34.70	15.52	54.00	19.30	243	139	Vertical
5	5190.0000	90.87	15.58	0.00	-90.87	229	177	Vertical
6	5190.0000	80.89	15.58	0.00	-80.89	299	177	Vertical

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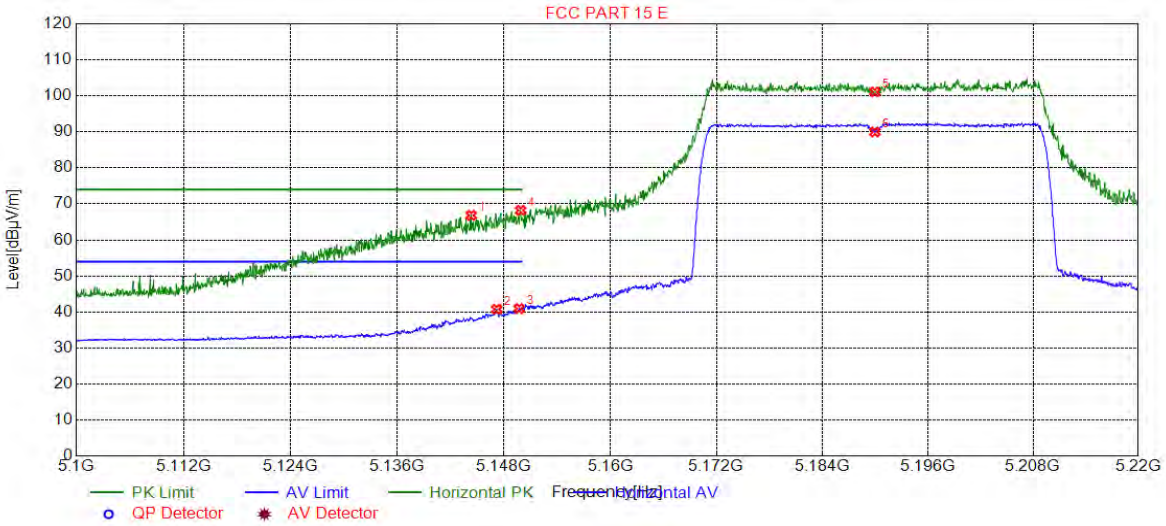
4.10.1.108 11AX40_38_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.3022	66.82	15.47	74.00	7.18	152	79	Horizontal
2	5147.1836	40.76	15.50	54.00	13.24	123	84	Horizontal
3	5149.7049	40.95	15.52	54.00	13.05	196	84	Horizontal
4	5149.8849	68.20	15.52	74.00	5.80	242	79	Horizontal
5	5190.0000	101.09	15.58	0.00	-101.09	247	84	Horizontal
6	5190.0000	89.97	15.58	0.00	-89.97	206	84	Horizontal

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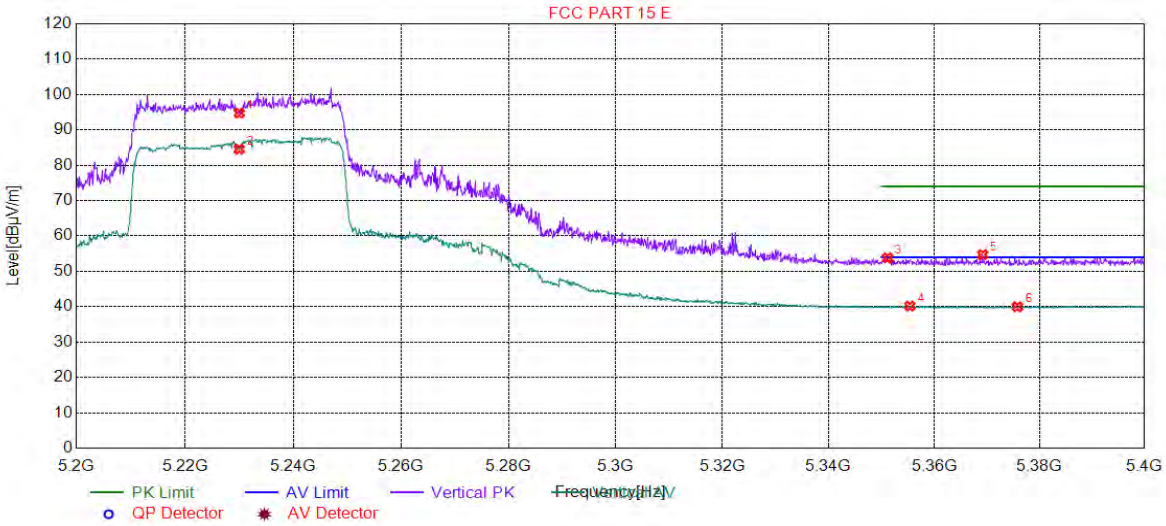
4.10.1.109 11AX40_46_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	94.75	15.51	0.00	-94.75	156	132	Vertical
2	5230.0000	84.56	15.51	0.00	-84.56	279	132	Vertical
3	5351.1756	53.82	15.95	74.00	20.18	207	60	Vertical
4	5355.3777	40.19	15.97	54.00	13.81	242	132	Vertical
5	5369.1846	54.73	16.06	74.00	19.27	280	296	Vertical
6	5375.7879	39.97	16.10	54.00	14.03	254	16	Vertical

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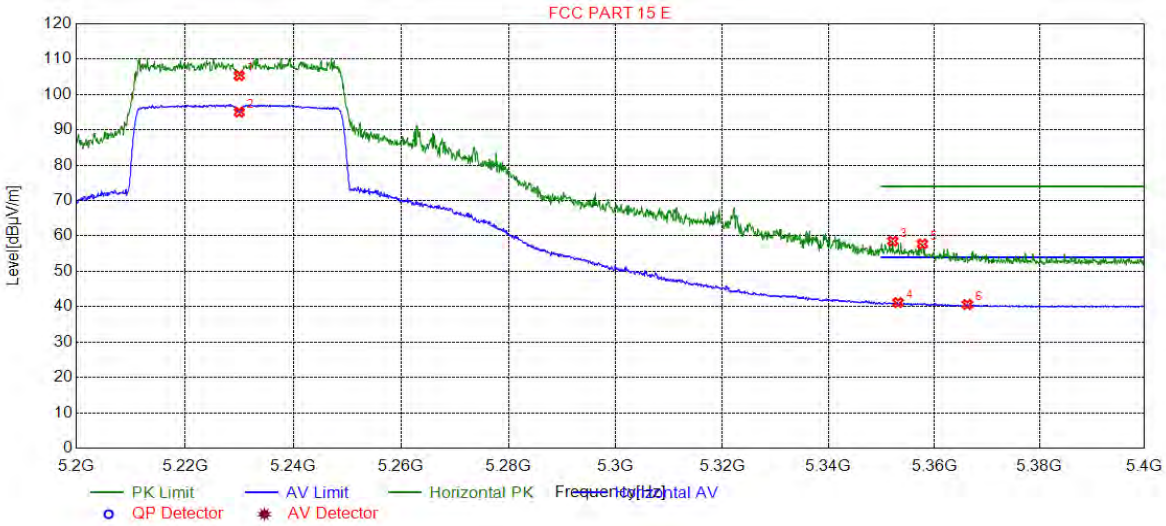
4.10.1.110 11AX40_46_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	105.32	15.51	0.00	-105.32	196	279	Horizontal
2	5230.0000	95.02	15.51	0.00	-95.02	208	83	Horizontal
3	5352.1761	58.53	15.95	74.00	15.47	143	286	Horizontal
4	5353.1766	41.16	15.96	54.00	12.84	131	279	Horizontal
5	5357.7789	57.73	15.99	74.00	16.27	192	286	Horizontal
6	5366.2831	40.63	16.04	54.00	13.37	247	259	Horizontal

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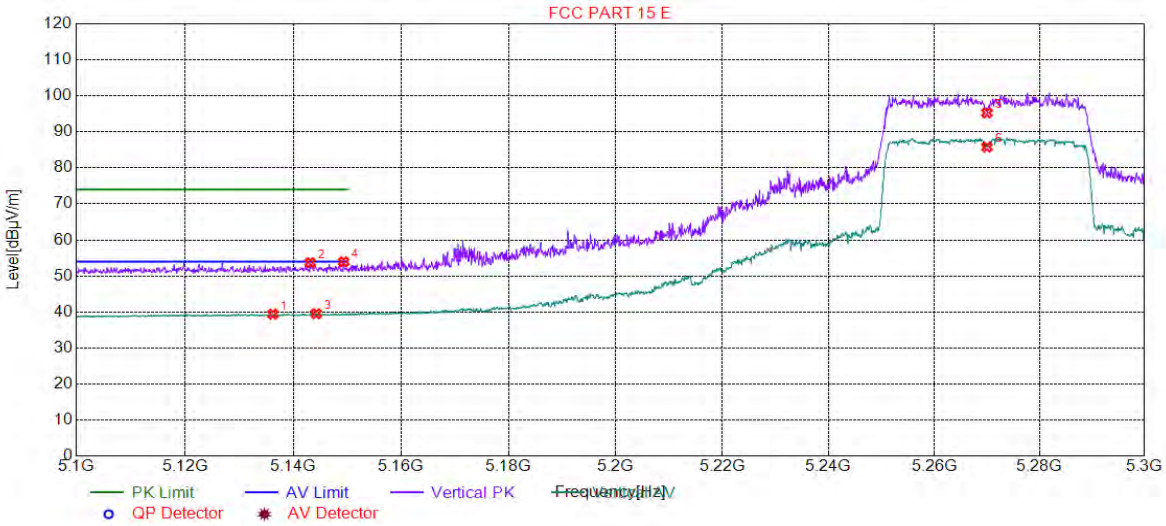
4.10.1.111 11AX40_54_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5136.2181	39.40	15.40	54.00	14.60	237	282	Vertical
2	5143.1216	53.71	15.46	74.00	20.29	193	181	Vertical
3	5144.2221	39.52	15.47	54.00	14.48	160	282	Vertical
4	5149.3247	53.94	15.51	74.00	20.06	156	174	Vertical
5	5270.0000	95.29	15.56	0.00	-95.29	268	335	Vertical
6	5270.0000	85.79	15.56	0.00	-85.79	296	335	Vertical

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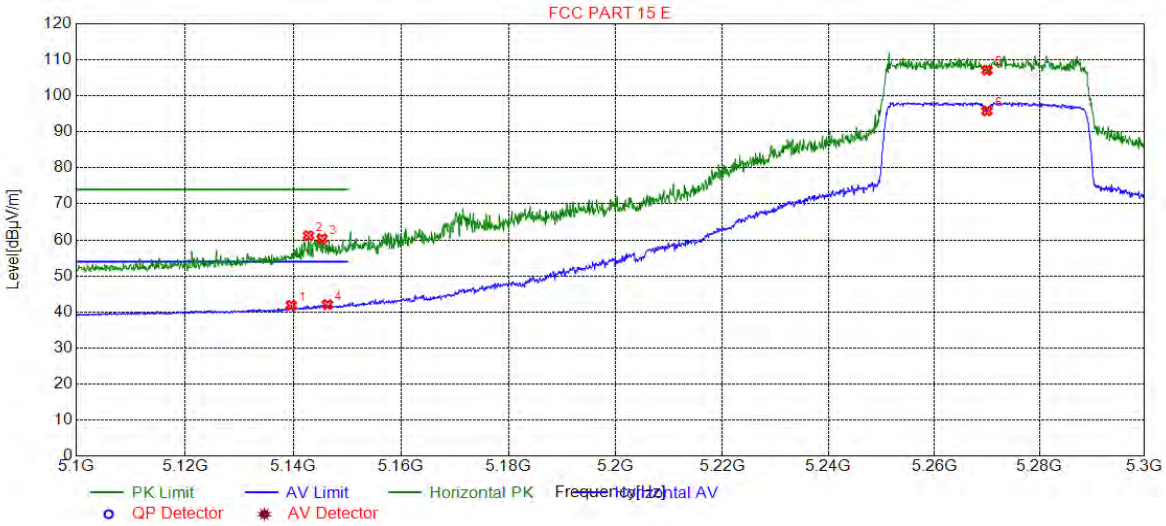
4.10.1.112 11AX40_54_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.6198	41.85	15.43	54.00	12.15	134	249	Horizontal
2	5142.8214	61.20	15.46	74.00	12.80	192	242	Horizontal
3	5145.3227	60.32	15.48	74.00	13.68	188	249	Horizontal
4	5146.3232	42.04	15.49	54.00	11.96	243	249	Horizontal
5	5270.0000	107.11	15.56	0.00	-107.11	206	236	Horizontal
6	5270.0000	95.81	15.56	0.00	-95.81	160	249	Horizontal

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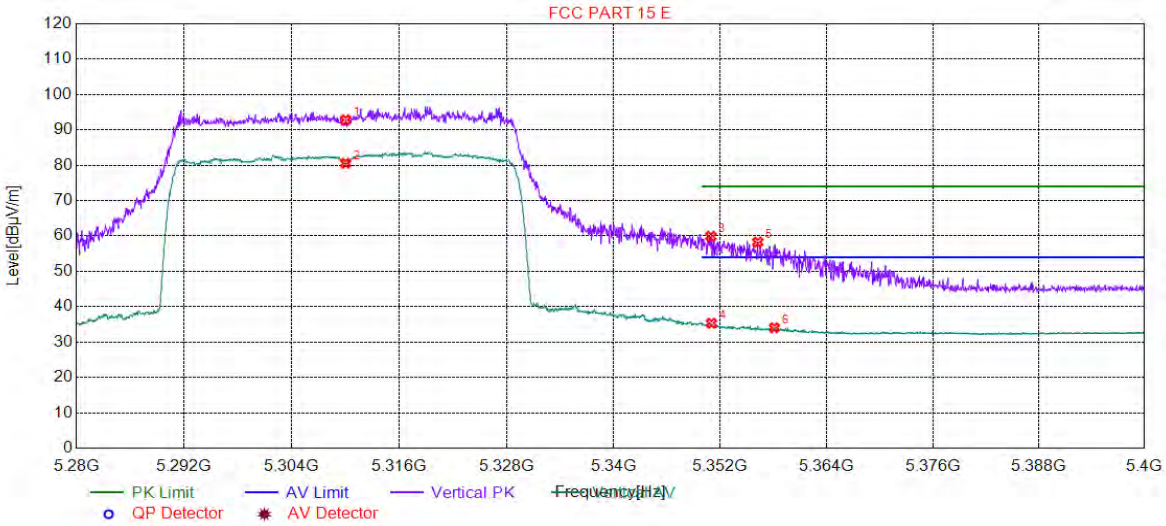
4.10.1.113 11AX40_62_ Vertical



Suspected List								
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1	5310.0000	92.81	15.75	0.00	-92.81	233	338	Vertical
2	5310.0000	80.56	15.75	0.00	-80.56	167	338	Vertical
3	5350.9555	59.92	15.95	74.00	14.08	276	331	Vertical
4	5351.0155	35.34	15.95	54.00	18.66	262	331	Vertical
5	5356.2381	58.30	15.98	74.00	15.70	181	257	Vertical
6	5358.0991	34.06	15.99	54.00	19.94	270	270	Vertical

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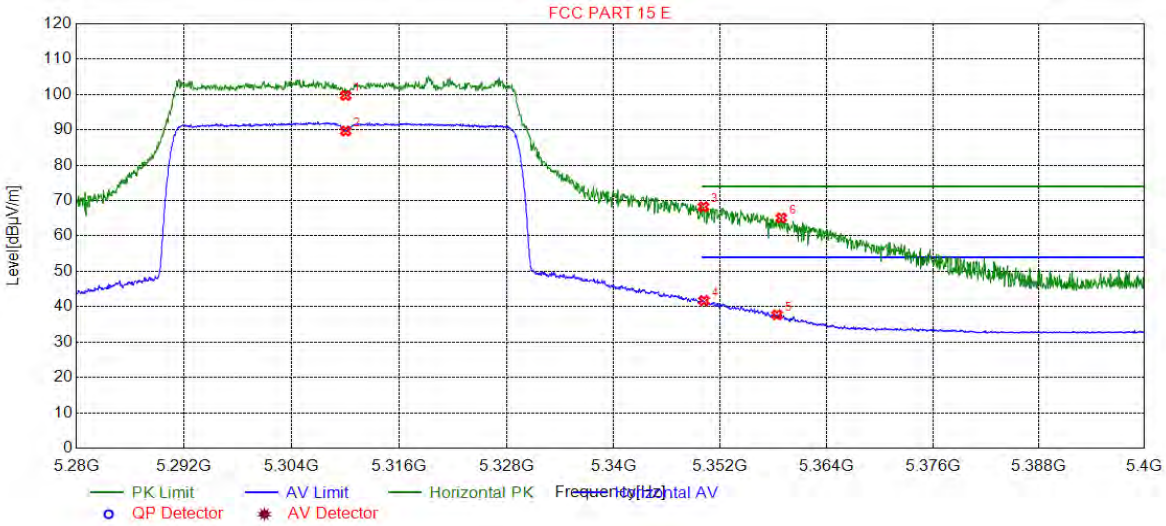
4.10.1.114 11AX40_62_ Horizontal



Suspected List								
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1	5310.0000	99.74	15.75	0.00	-99.74	216	276	Horizontal
2	5310.0000	89.66	15.75	0.00	-89.66	194	248	Horizontal
3	5350.1151	68.24	15.94	74.00	5.76	108	255	Horizontal
4	5350.1751	41.72	15.94	54.00	12.28	230	248	Horizontal
5	5358.3992	37.70	15.99	54.00	16.30	182	83	Horizontal
6	5358.8794	65.11	16.00	74.00	8.89	212	255	Horizontal

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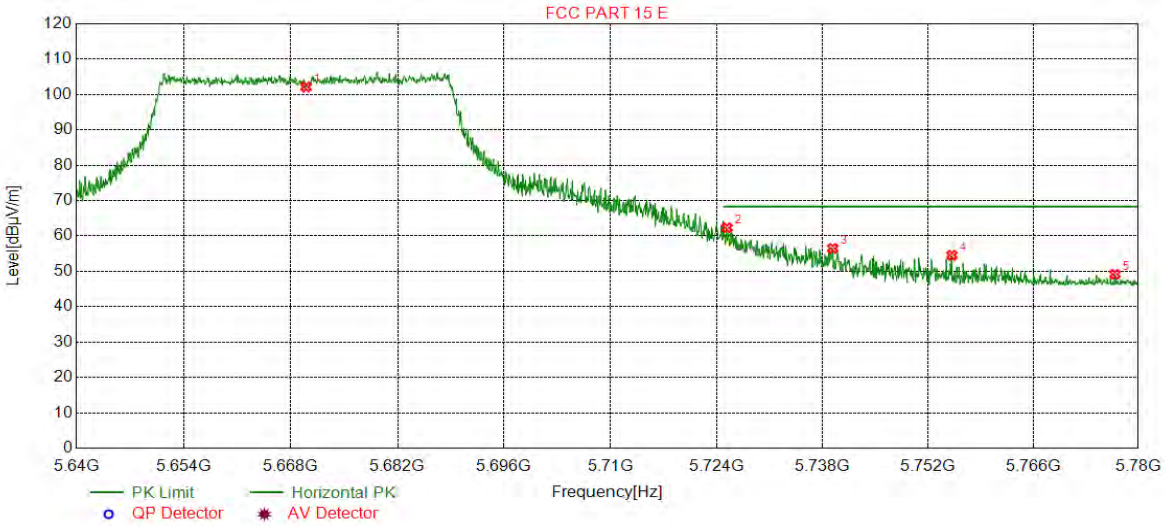
4.10.1.115 11AX40_102_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	102.12	16.64	0.00	-102.12	207	251	Horizontal
2	5725.3727	62.33	16.96	68.30	5.97	200	251	Horizontal
3	5739.3797	56.51	17.05	68.30	11.79	146	251	Horizontal
4	5755.2076	54.54	17.13	68.30	13.76	193	256	Horizontal
5	5776.9185	49.16	17.16	68.30	19.14	151	238	Horizontal

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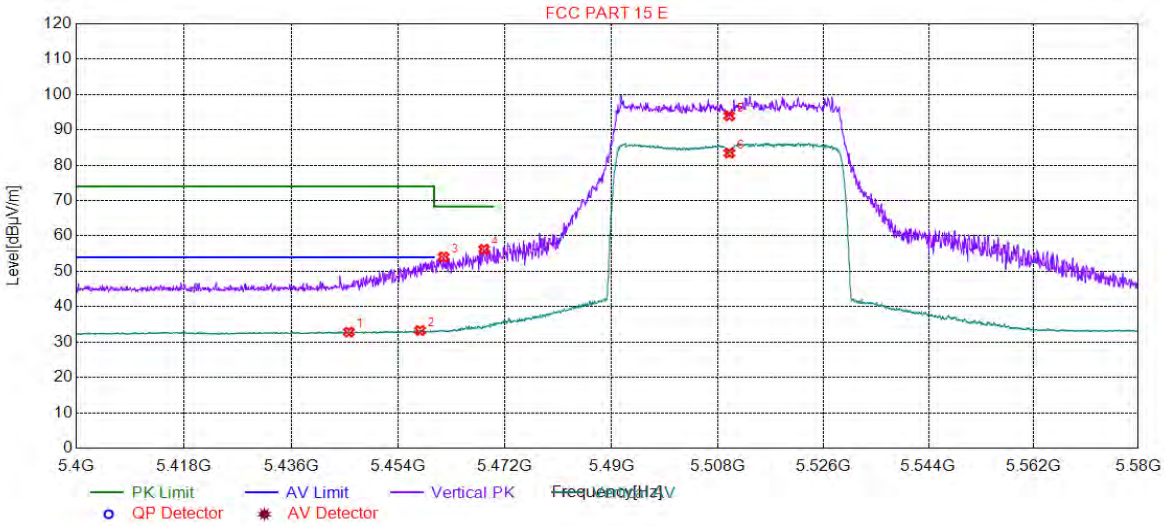
4.10.1.116 11AX40_102_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.6528	32.84	16.25	54.00	21.16	268	76	Vertical
2	5457.6288	33.28	16.25	54.00	20.72	238	201	Vertical
3	5461.5908	54.08	16.25	68.30	14.22	169	180	Vertical
4	5468.4342	56.24	16.25	68.30	12.06	185	54	Vertical
5	5510.0000	93.97	16.28	0.00	-93.97	291	54	Vertical
6	5510.0000	83.45	16.28	0.00	-83.45	269	47	Vertical

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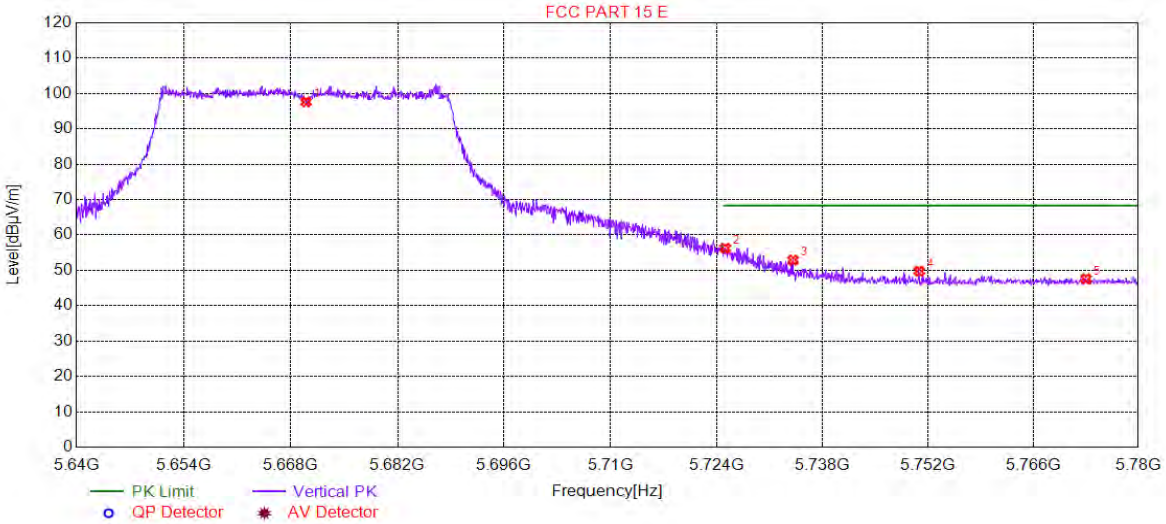
4.10.1.117 11AX40_134_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	97.62	16.64	0.00	-97.62	192	62	Vertical
2	5725.1626	56.27	16.96	68.30	12.03	170	67	Vertical
3	5734.1271	52.89	17.02	68.30	15.41	215	67	Vertical
4	5750.8654	49.78	17.12	68.30	18.52	277	45	Vertical
5	5773.0665	47.61	17.15	68.30	20.69	162	182	Vertical

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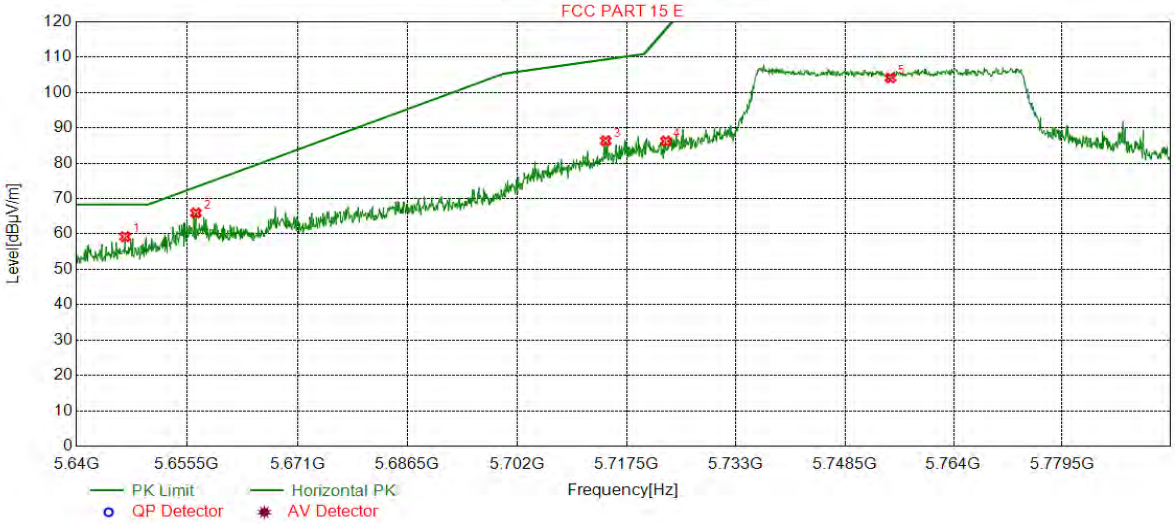
4.10.1.118 11AX40_134_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.8234	59.24	16.53	68.30	9.06	120	254	Horizontal
2	5656.7484	65.94	16.57	73.29	7.35	118	250	Horizontal
3	5714.5148	86.34	16.89	109.36	23.02	192	254	Horizontal
4	5723.0440	86.26	16.95	117.84	31.58	190	254	Horizontal
5	5755.0000	104.13	17.13	0.00	-104.13	166	250	Horizontal

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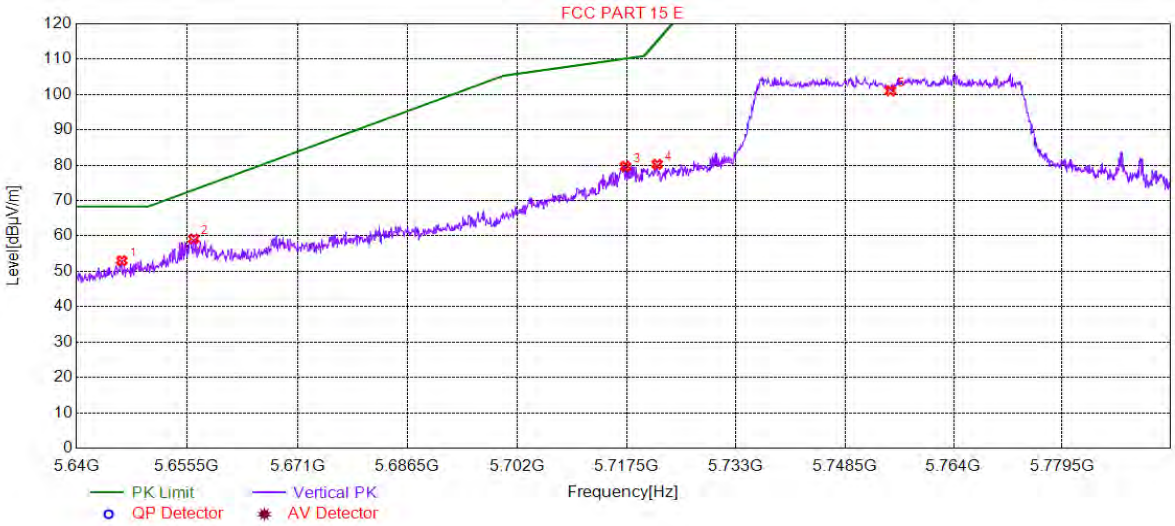
4.10.1.119 11AX40_151_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.3582	53.05	16.53	68.30	15.25	200	46	Vertical
2	5656.4382	59.17	16.56	73.06	13.89	194	51	Vertical
3	5717.3062	79.68	16.91	110.15	30.47	209	55	Vertical
4	5721.8034	80.25	16.94	115.01	34.76	206	194	Vertical
5	5755.0000	101.06	17.13	0.00	-101.06	171	203	Vertical

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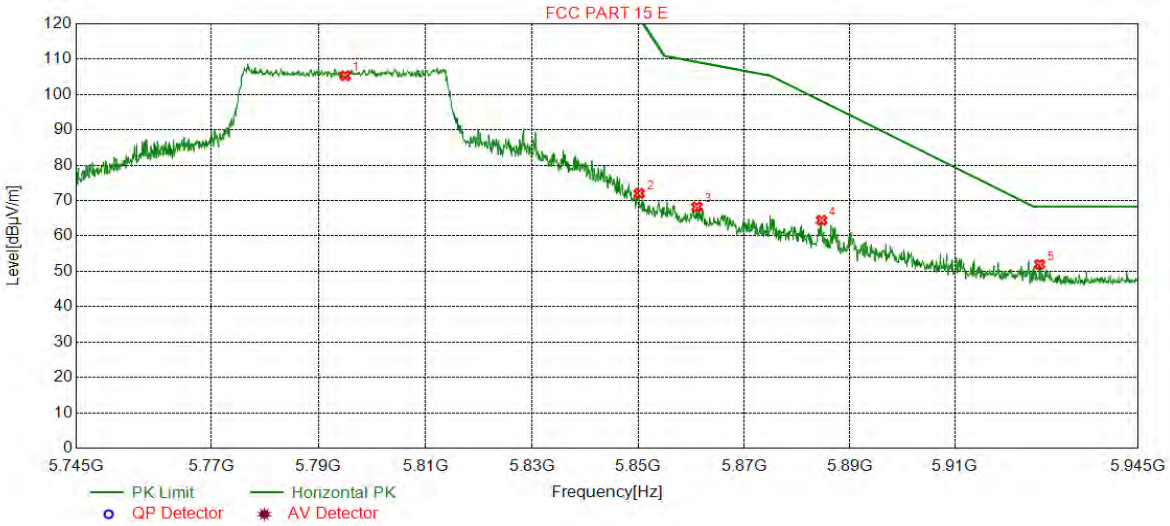
4.10.1.120 11AX40_151_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	105.32	17.18	0.00	-105.32	158	248	Horizontal
2	5850.1526	72.05	17.26	121.95	49.90	207	248	Horizontal
3	5861.0580	68.23	17.23	109.20	40.97	141	248	Horizontal
4	5884.6698	64.43	17.16	98.14	33.71	196	248	Horizontal
5	5926.1906	51.99	17.51	68.30	16.31	135	252	Horizontal

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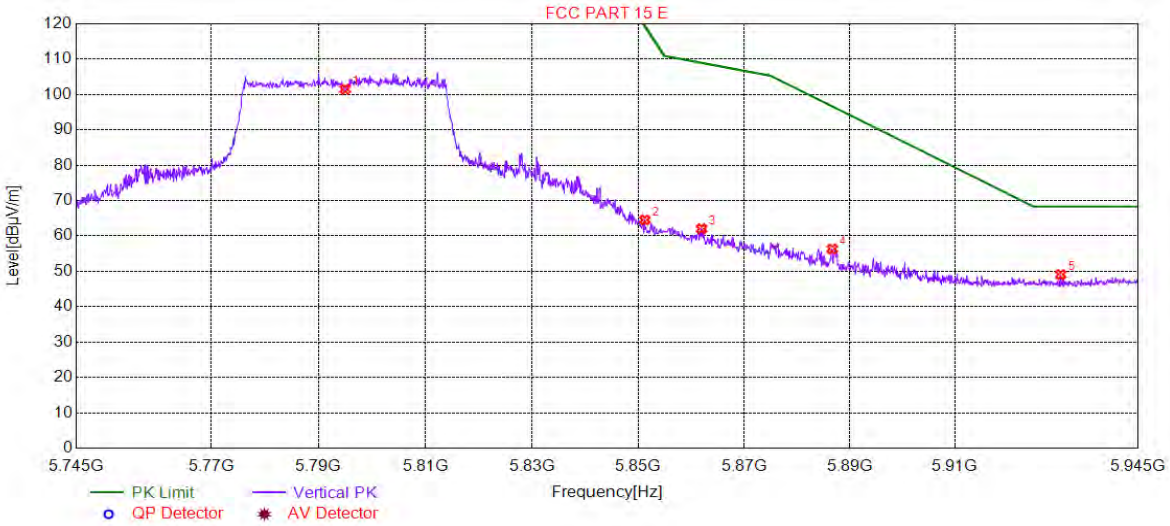
4.10.1.121 11AX40_159_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	101.50	17.18	0.00	-101.50	167	62	Vertical
2	5851.2531	64.57	17.26	119.44	54.87	226	57	Vertical
3	5861.9585	62.05	17.22	108.95	46.90	274	93	Vertical
4	5886.6708	56.34	17.15	96.66	40.32	270	213	Vertical
5	5930.1926	49.07	17.57	68.30	19.23	252	70	Vertical

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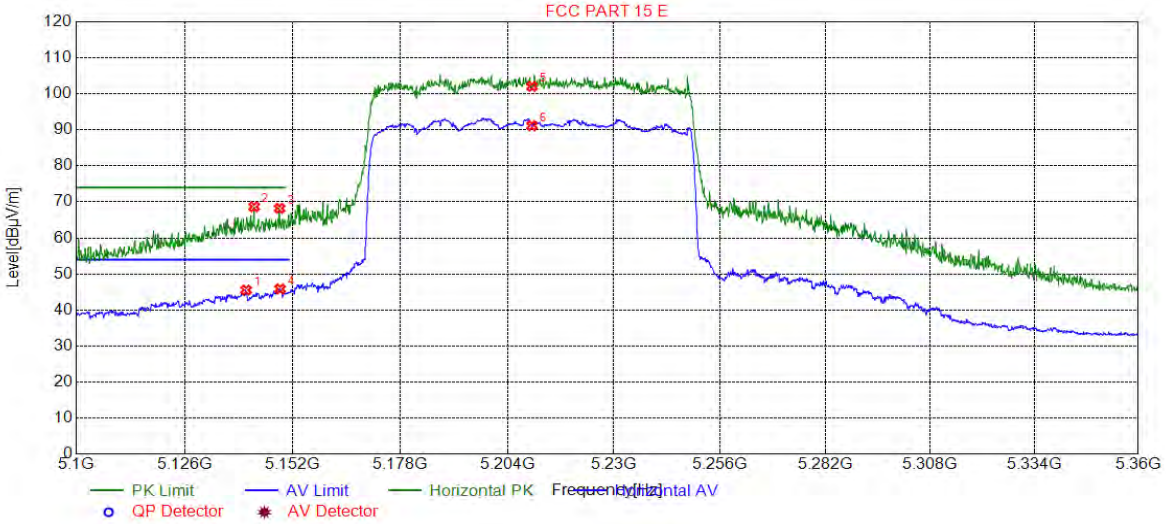
4.10.1.122 11AX40_159_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5140.7104	45.53	15.44	54.00	8.47	149	249	Horizontal
2	5142.6613	68.64	15.46	74.00	5.36	105	249	Horizontal
3	5148.7744	68.20	15.51	74.00	5.80	184	256	Horizontal
4	5148.9045	45.83	15.51	54.00	8.17	174	249	Horizontal
5	5210.0000	102.05	15.56	0.00	-102.05	117	249	Horizontal
6	5210.0000	91.15	15.56	0.00	-91.15	173	249	Horizontal

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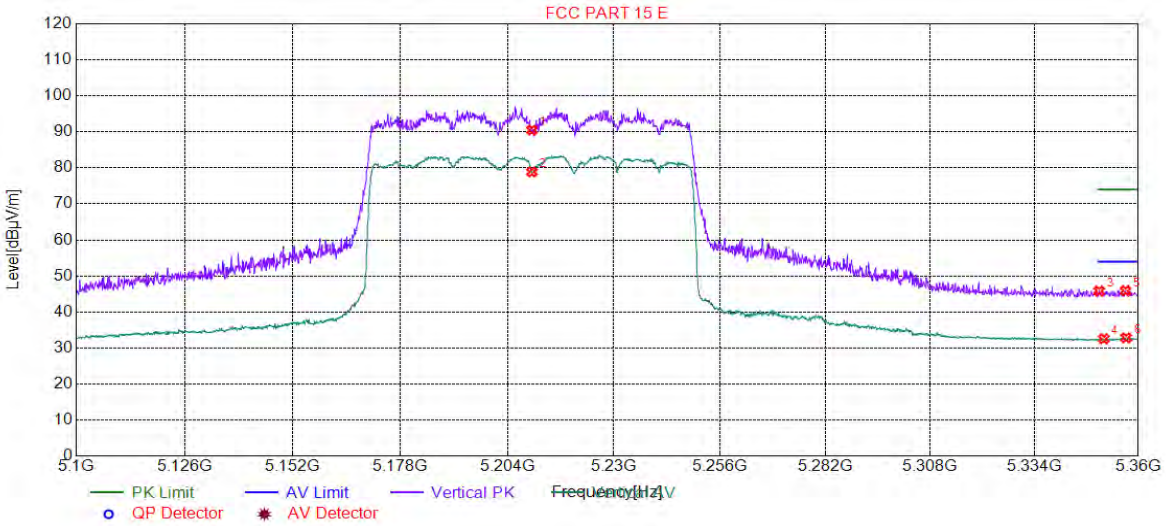
4.10.1.123 11AX80_42_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.0000	90.51	15.56	0.00	-90.51	213	261	Vertical
2	5210.0000	78.87	15.56	0.00	-78.87	249	275	Vertical
3	5350.2451	45.82	15.94	74.00	28.18	160	337	Vertical
4	5351.4157	32.56	15.95	54.00	21.44	240	344	Vertical
5	5356.8784	45.89	15.98	74.00	28.11	244	289	Vertical
6	5357.0085	32.82	15.98	54.00	21.18	192	77	Vertical

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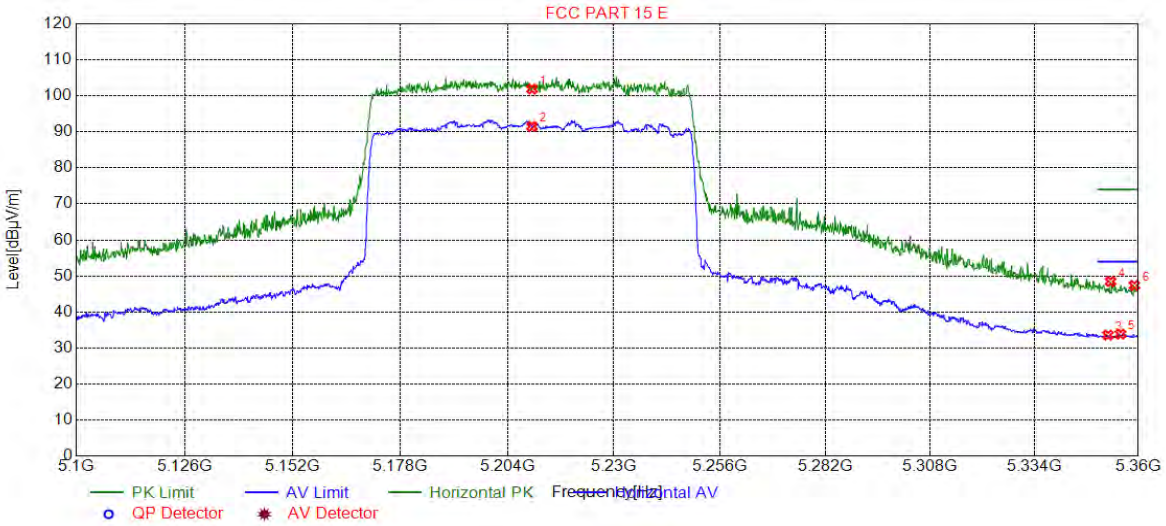
4.10.1.124 11AX80_42_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.0000	101.89	15.56	0.00	-101.89	181	249	Horizontal
2	5210.0000	91.50	15.56	0.00	-91.50	187	249	Horizontal
3	5352.4562	33.59	15.96	54.00	20.41	131	249	Horizontal
4	5353.1066	48.48	15.96	74.00	25.52	151	242	Horizontal
5	5355.5778	33.87	15.97	54.00	20.13	131	249	Horizontal
6	5359.0895	47.39	16.00	74.00	26.61	172	256	Horizontal

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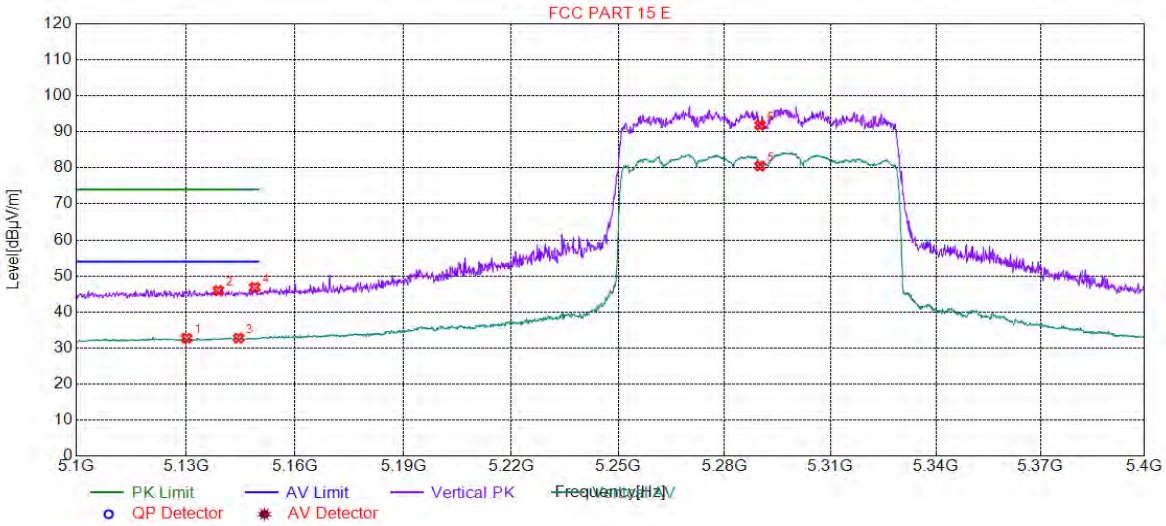
4.10.1.125 11AX80_58_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.1651	32.73	15.35	54.00	21.27	235	167	Vertical
2	5138.8694	45.93	15.42	74.00	28.07	182	276	Vertical
3	5144.4222	32.75	15.47	54.00	21.25	294	276	Vertical
4	5148.9245	46.85	15.51	74.00	27.15	162	174	Vertical
5	5290.0000	80.51	15.65	0.00	-80.51	225	283	Vertical
6	5290.0000	91.87	15.65	0.00	-91.87	171	283	Vertical

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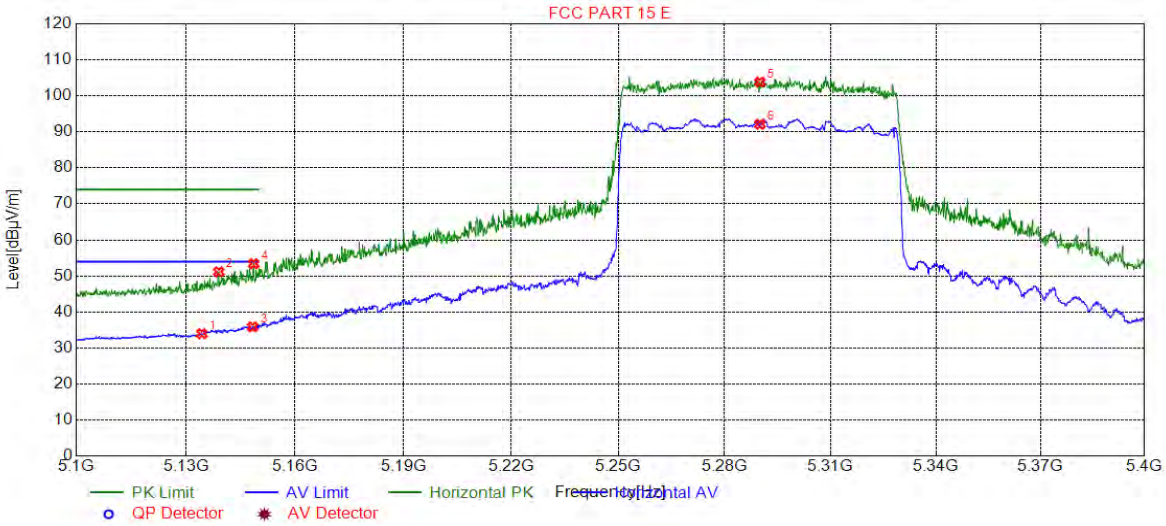
4.10.1.126 11AX80_58_ Horizontal



Suspected List								
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1	5134.3672	33.96	15.39	54.00	20.04	128	242	Horizontal
2	5139.0195	51.16	15.43	74.00	22.84	223	249	Horizontal
3	5148.3242	35.86	15.51	54.00	18.14	224	249	Horizontal
4	5148.6243	53.39	15.51	74.00	20.61	160	242	Horizontal
5	5290.0000	103.84	15.65	0.00	-103.84	150	242	Horizontal
6	5290.0000	92.12	15.65	0.00	-92.12	101	249	Horizontal

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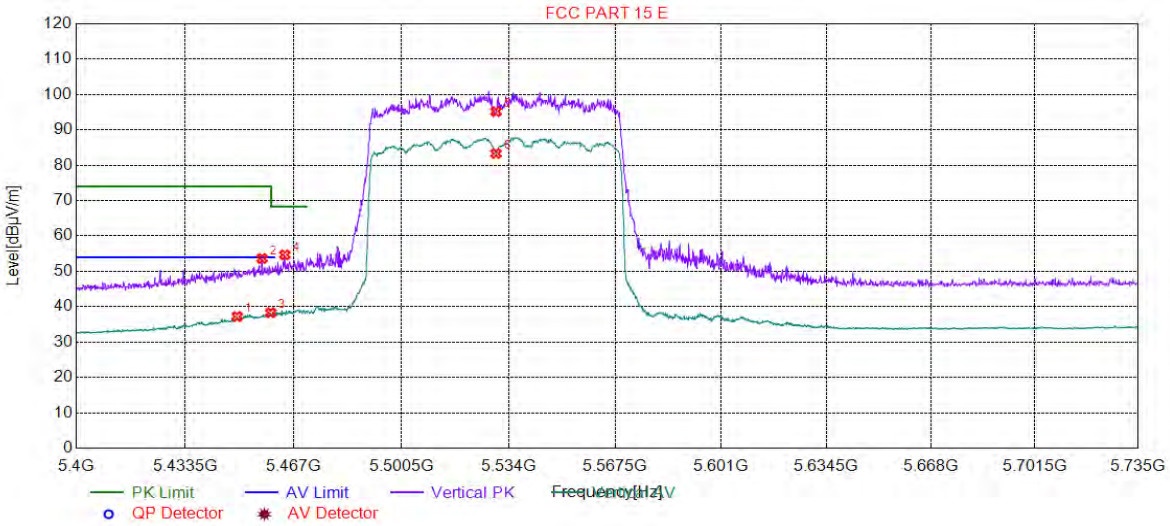
4.10.1.127 11AX80_106_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.4372	37.23	16.25	54.00	16.77	161	180	Vertical
2	5457.1461	53.64	16.25	74.00	20.36	206	249	Vertical
3	5459.8274	38.31	16.25	54.00	15.69	158	201	Vertical
4	5464.1846	54.67	16.25	68.30	13.63	289	221	Vertical
5	5530.0000	95.17	16.35	0.00	-95.17	165	63	Vertical
6	5530.0000	83.34	16.35	0.00	-83.34	196	56	Vertical

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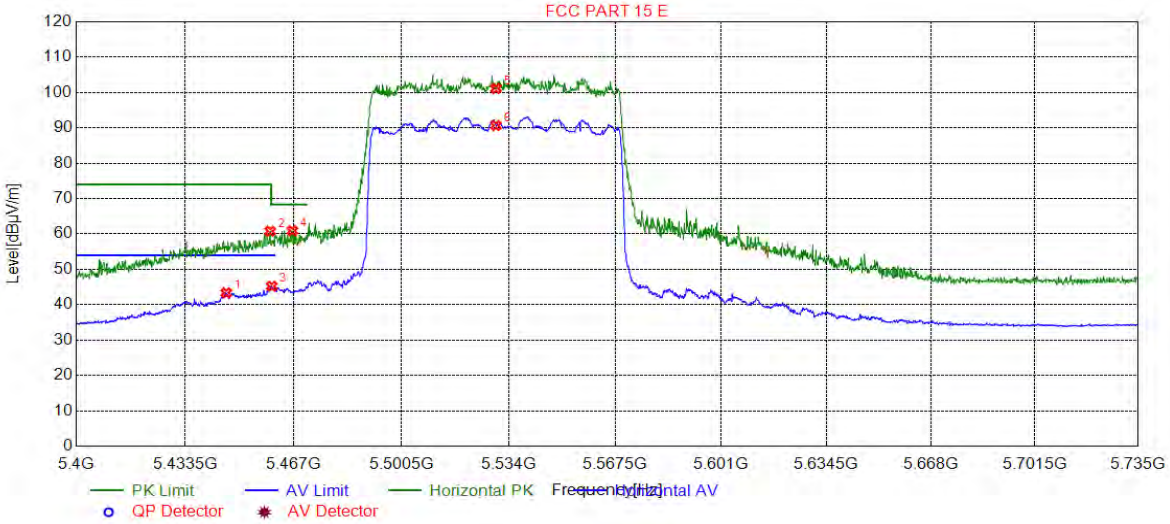
4.10.1.128 11AX80_106_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.0855	43.36	16.25	54.00	10.64	113	256	Horizontal
2	5459.6598	60.79	16.25	74.00	13.21	154	256	Horizontal
3	5460.1626	45.23	16.25	54.00	8.77	125	256	Horizontal
4	5466.5308	60.91	16.25	68.30	7.39	114	236	Horizontal
5	5530.0000	101.10	16.35	0.00	-101.10	155	256	Horizontal
6	5530.0000	90.66	16.35	0.00	-90.66	151	250	Horizontal

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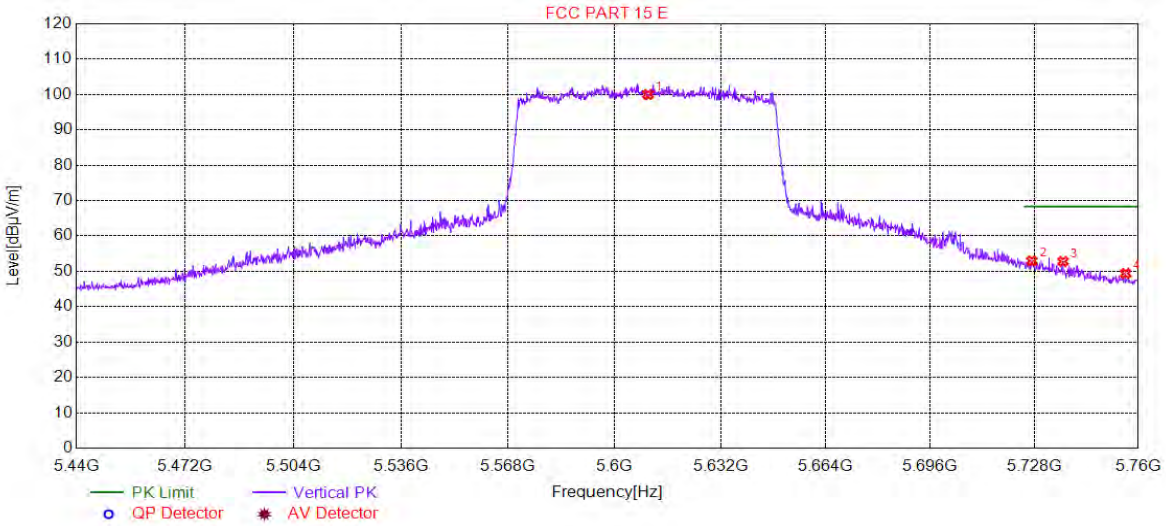
4.10.1.129 11AX80_122_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	100.00	16.58	0.00	-100.00	184	53	Vertical
2	5727.1836	52.96	16.97	68.30	15.34	225	72	Vertical
3	5736.7884	52.80	17.04	68.30	15.50	275	192	Vertical
4	5756.1581	49.40	17.13	68.30	18.90	260	182	Vertical

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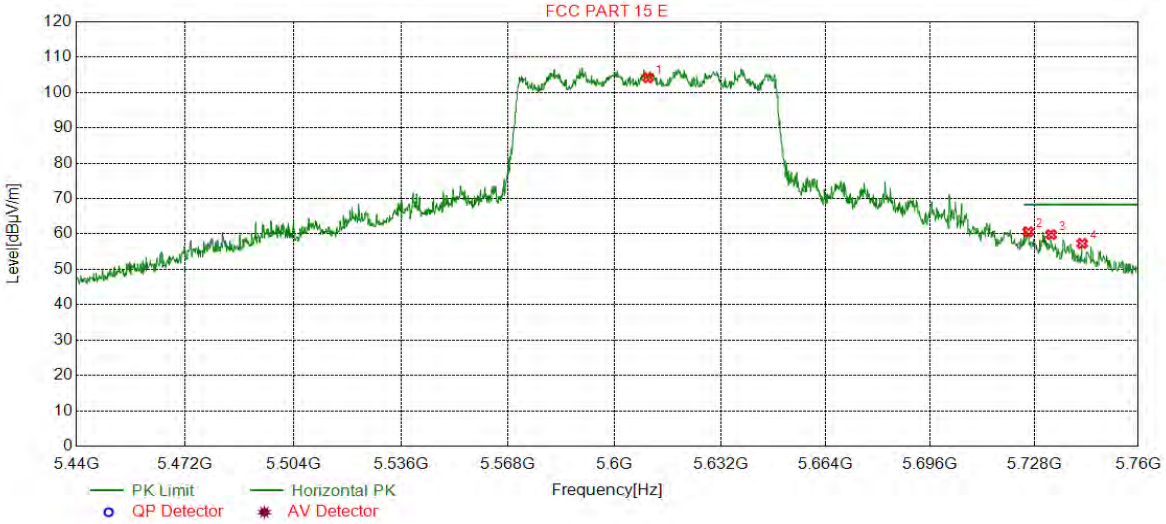
4.10.1.130 11AX80_122_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	104.17	16.58	0.00	-104.17	184	249	Horizontal
2	5726.0630	60.60	16.97	68.30	7.70	128	249	Horizontal
3	5733.1066	59.84	17.01	68.30	8.46	200	249	Horizontal
4	5742.7114	57.29	17.07	68.30	11.01	223	245	Horizontal

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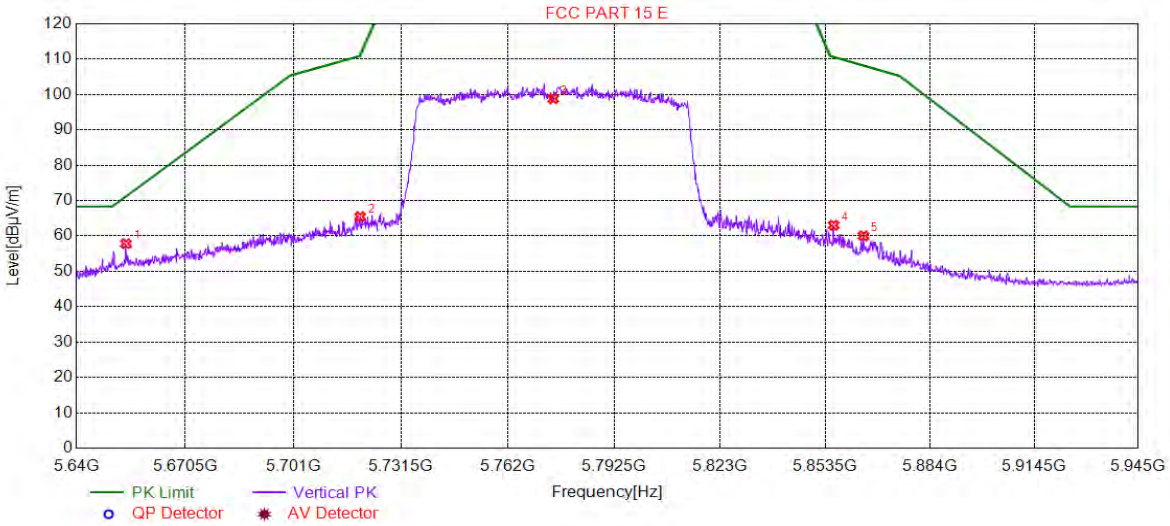
4.10.1.131 11AX80_155_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5653.8844	57.80	16.55	71.17	13.37	255	186	Vertical
2	5719.9500	65.46	16.93	110.89	45.43	228	107	Vertical
3	5775.0000	98.80	17.16	122.30	23.50	229	61	Vertical
4	5855.8954	63.04	17.24	110.65	47.61	195	61	Vertical
5	5864.5923	60.02	17.22	108.21	48.19	205	57	Vertical

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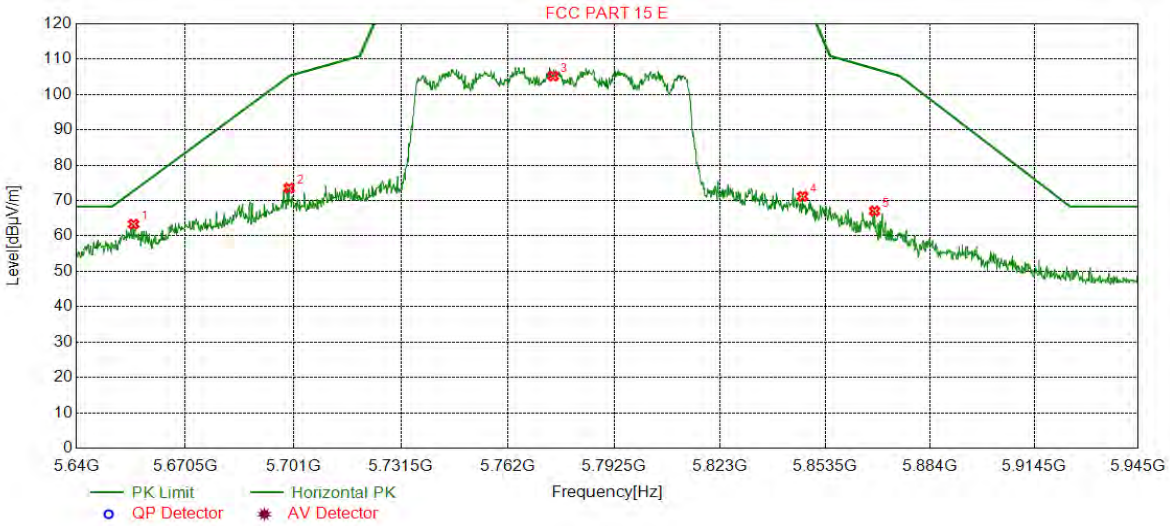
4.10.1.132 11AX80_155_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5656.0205	63.35	16.56	72.76	9.41	128	248	Horizontal
2	5699.8099	73.56	16.80	105.16	31.60	121	243	Horizontal
3	5775.0000	105.22	17.16	122.30	17.08	195	252	Horizontal
4	5846.8934	71.21	17.26	122.30	51.09	124	248	Horizontal
5	5867.7964	67.07	17.21	107.32	40.25	225	248	Horizontal

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	5320
V nom(V)	5180.009606	5320.009326
V max(V)	5180.014678	5320.018260
V min(V)	5180.015677	5320.023039
Max. Deviation Frequency	0.015677	0.023039
Max. Frequency Error (ppm)	3.026456	4.330633

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5320
-5	5180.007421	5320.008711
5	5180.012580	5320.013756
15	5180.016592	5320.016379
25	5180.022372	5320.019123
35	5180.030355	5320.020548
45	5180.038370	5320.022801
50	5180.044901	5320.031927
Max. Deviation Frequency	0.044901	0.031927
Max. Frequency Error (ppm)	8.668136	6.001272

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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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4.12.2 DFS Detection Thresholds

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

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

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

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

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

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

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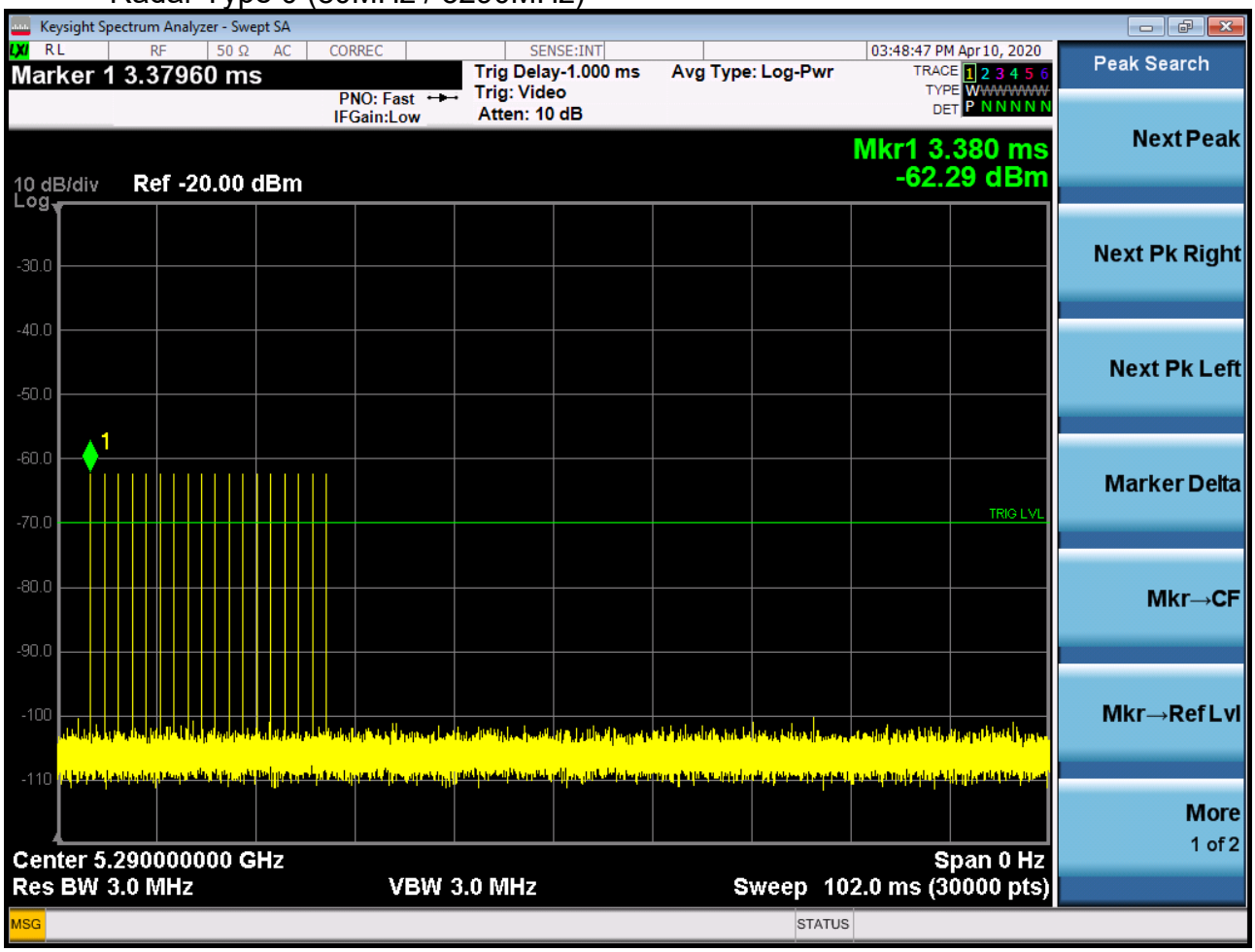
4.12.4 Test plots

Remark: Only the data of Ant.1 is recorded.

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5290MHz)



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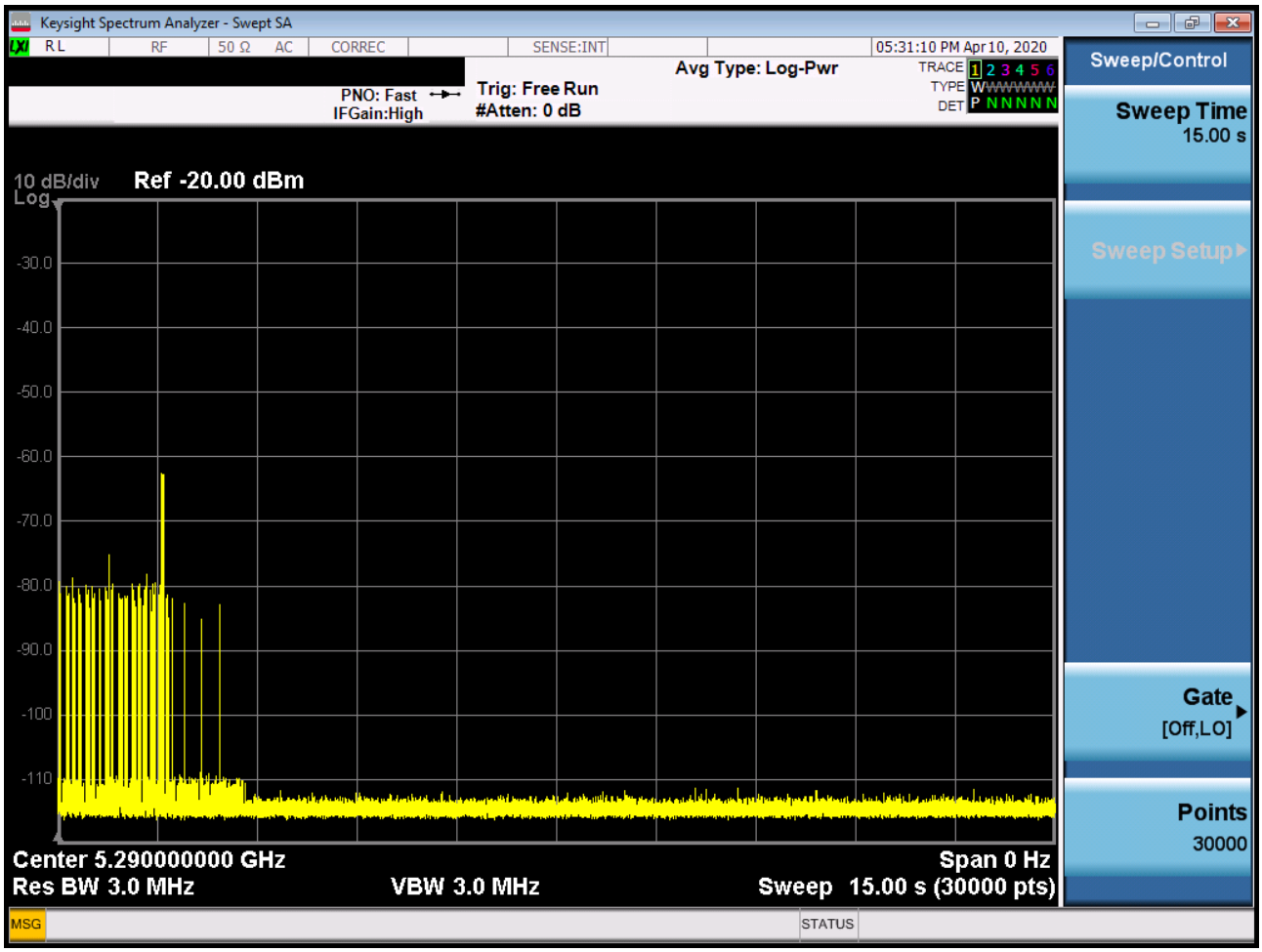
4.12.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5290MHz	Channel Move Time	0.852s	＜10s	Pass
	Channel Closing Transmission Time	2.0ms	＜60ms	Pass

4.12.5.1 Test plots

4.12.5.1.1 Test Bandwidth/Channel= 80MHz / 5290MHz



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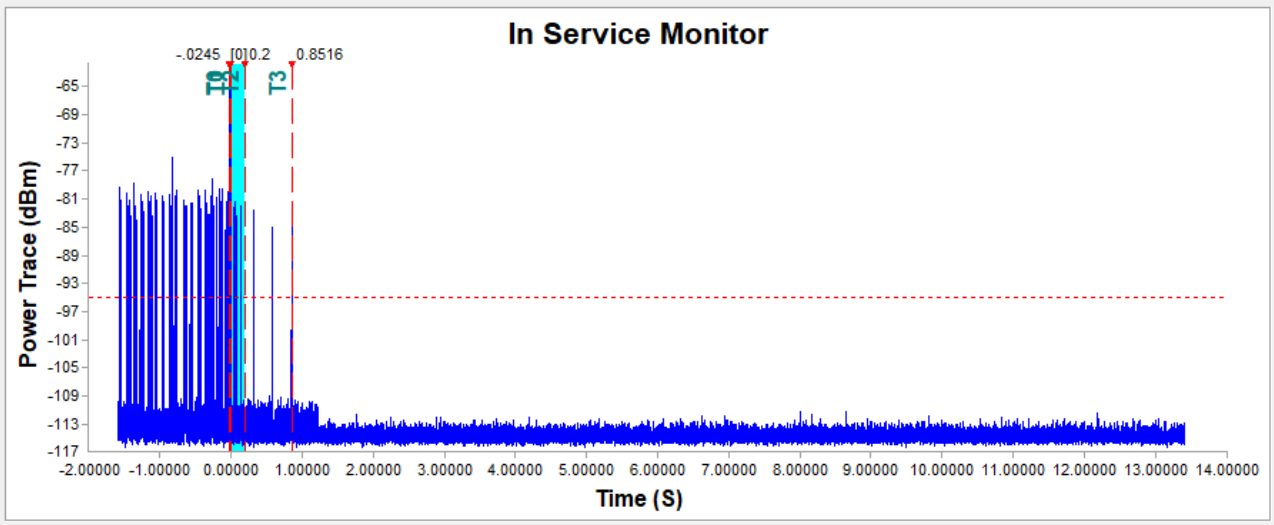

Time Index Info

T0 : -0.0245 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.8516 S (Channel Move Time)

Time Per Bin:0.50005 ms

T2~T3 Bins Over Threshold: = 4 Bins

Channel Move Time: 0.8515852 S

Channel Close Time: 0.0020002 S

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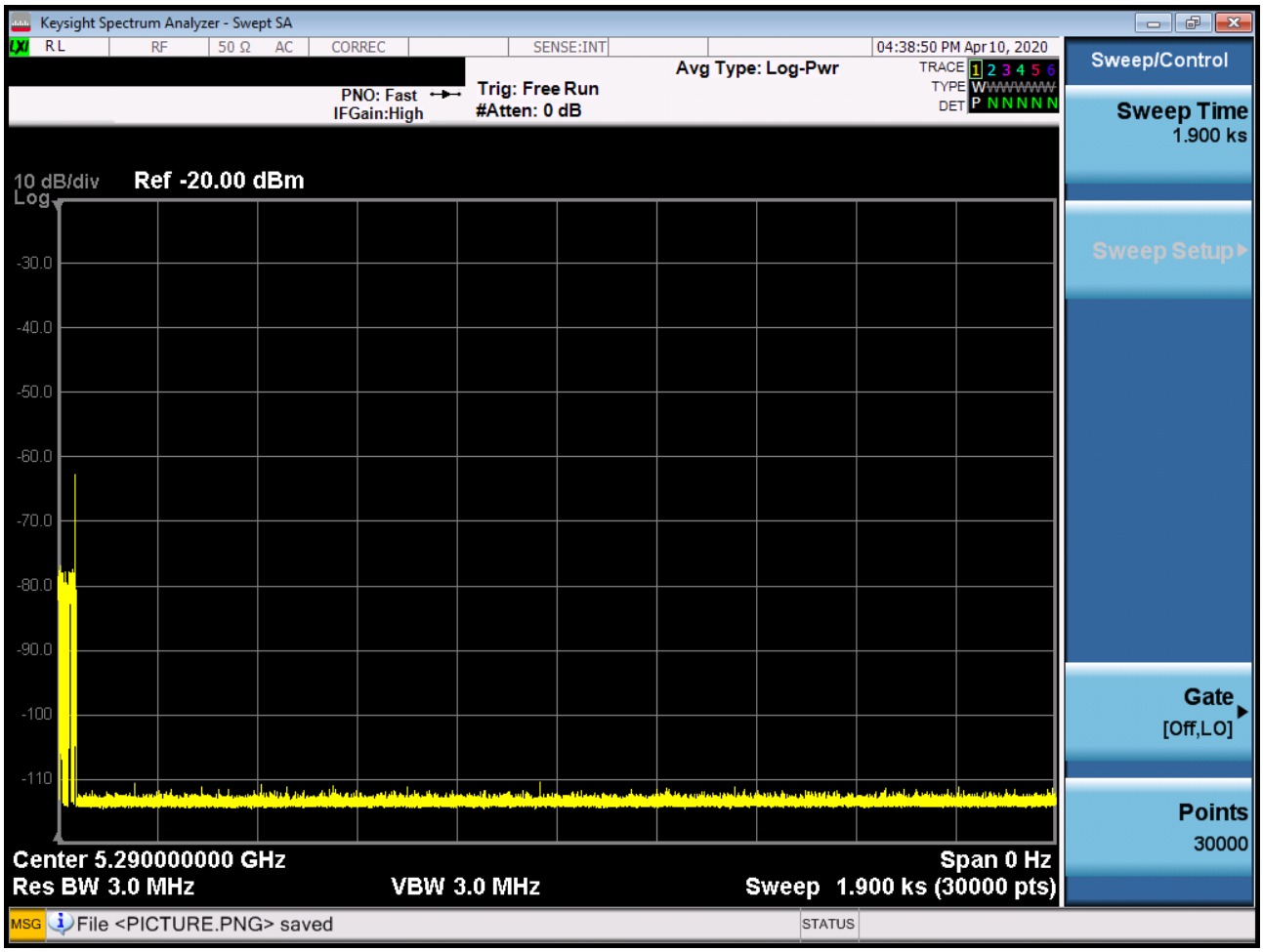

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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

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

Lab B:

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

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6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/22	2021/3/21
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

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CE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-07-16	2020-07-15
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

RSE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2019-06-27	2020-06-26
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2019-06-28	2020-06-27
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-12-03	2020-12-02
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR

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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/30010.

The End

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