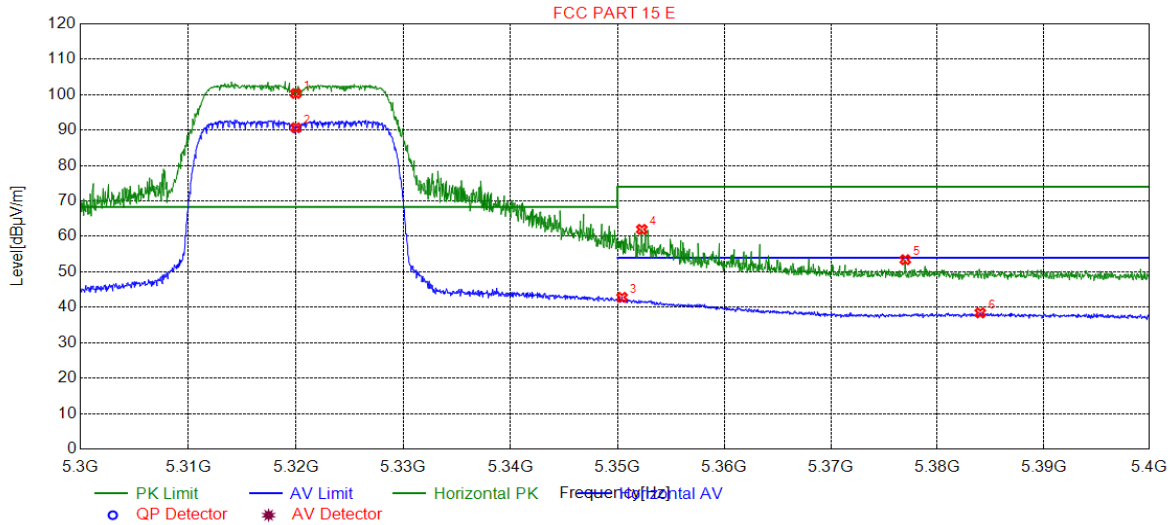


**4.9.1.56 11AC20\_64 ANT 1\_Peak\_Horizontal**



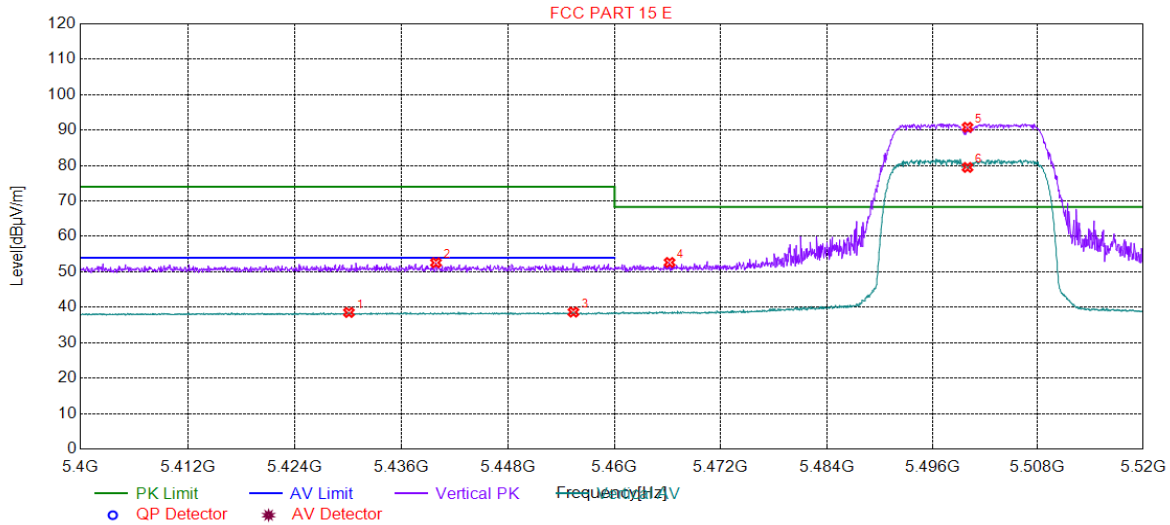
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	100.34	7.78	68.30	-32.04	150	222	Horizontal
2	5320.00	90.68	7.78	0.00	-90.68	150	222	Horizontal
3	5350.42	42.81	7.84	54.00	11.19	150	222	Horizontal
4	5352.27	61.99	7.84	74.00	12.01	150	227	Horizontal
5	5376.98	53.43	7.89	74.00	20.57	150	222	Horizontal
6	5384.04	38.43	7.91	54.00	15.57	150	222	Horizontal



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**4.9.1.57 11AC20\_100 ANT 1\_Peak\_Vertical**



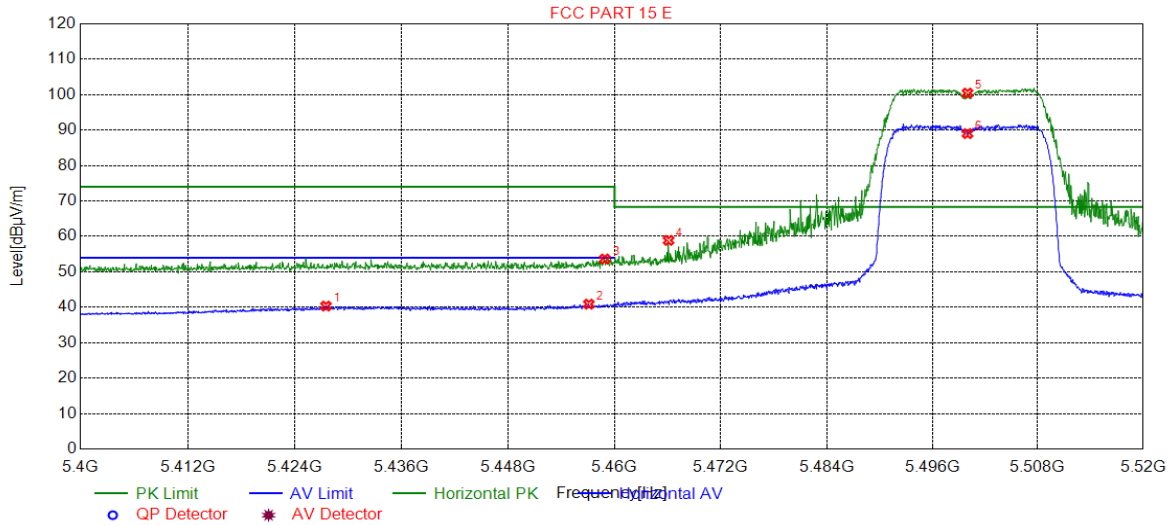
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5430.07	38.54	7.99	54.00	15.46	150	71	Vertical
2	5439.85	52.58	8.00	74.00	21.42	150	320	Vertical
3	5455.34	38.64	8.03	54.00	15.36	150	76	Vertical
4	5466.21	52.65	8.05	68.30	15.65	150	286	Vertical
5	5500.00	90.81	8.10	68.30	-22.51	150	103	Vertical
6	5500.00	79.48	8.10	0.00	-79.48	150	103	Vertical



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4.9.1.58 11AC20\_100 ANT 1\_Peak\_Horizontal



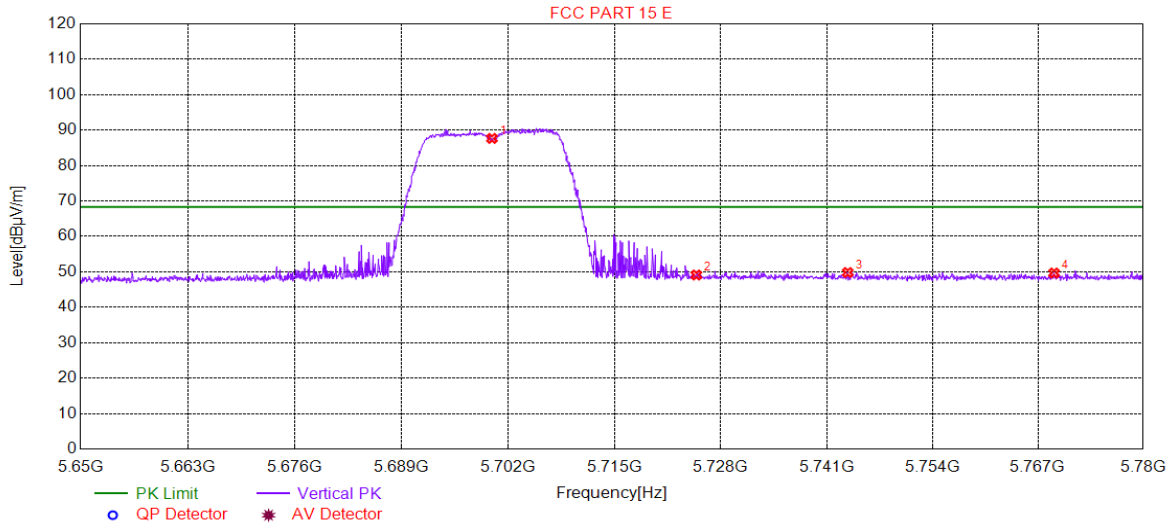
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5427.49	40.34	7.98	54.00	13.66	150	221	Horizontal
2	5457.08	40.89	8.03	54.00	13.11	150	221	Horizontal
3	5458.88	53.63	8.03	74.00	20.37	150	221	Horizontal
4	5466.09	58.88	8.05	68.30	9.42	150	221	Horizontal
5	5500.00	100.45	8.10	68.30	-32.15	150	225	Horizontal
6	5500.00	89.03	8.10	0.00	-89.03	150	221	Horizontal



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**4.9.1.59 11AC20\_140 ANT 1\_Peak\_Vertical**



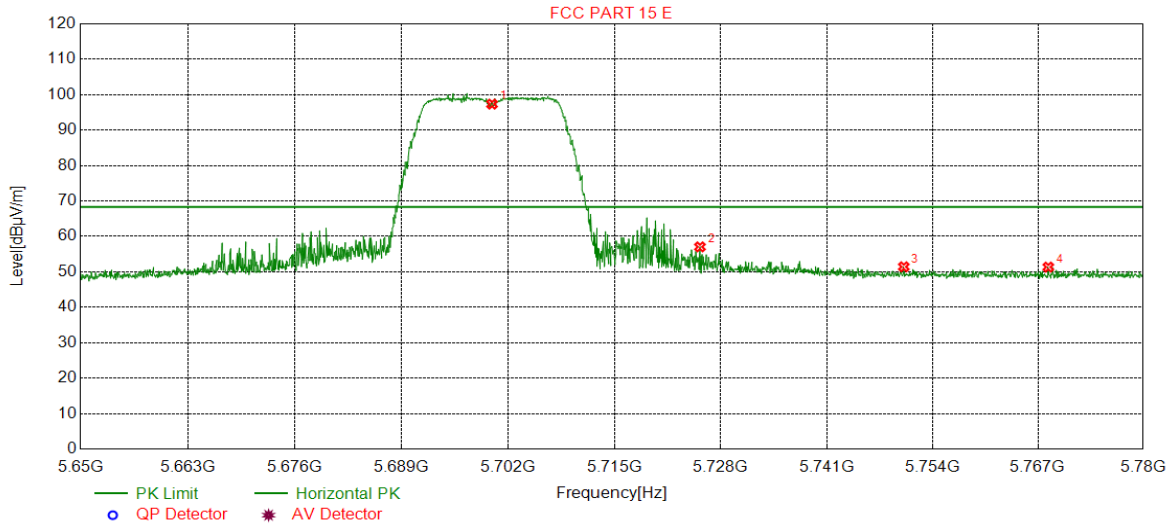
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	87.66	8.51	68.30	-19.36	150	186	Vertical
2	5725.00	49.11	8.57	68.30	19.19	150	84	Vertical
3	5743.58	49.82	8.61	68.30	18.48	150	358	Vertical
4	5769.00	49.67	8.67	68.30	18.63	150	240	Vertical



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**4.9.1.60 11AC20\_140 ANT 1\_Peak\_Horizontal**



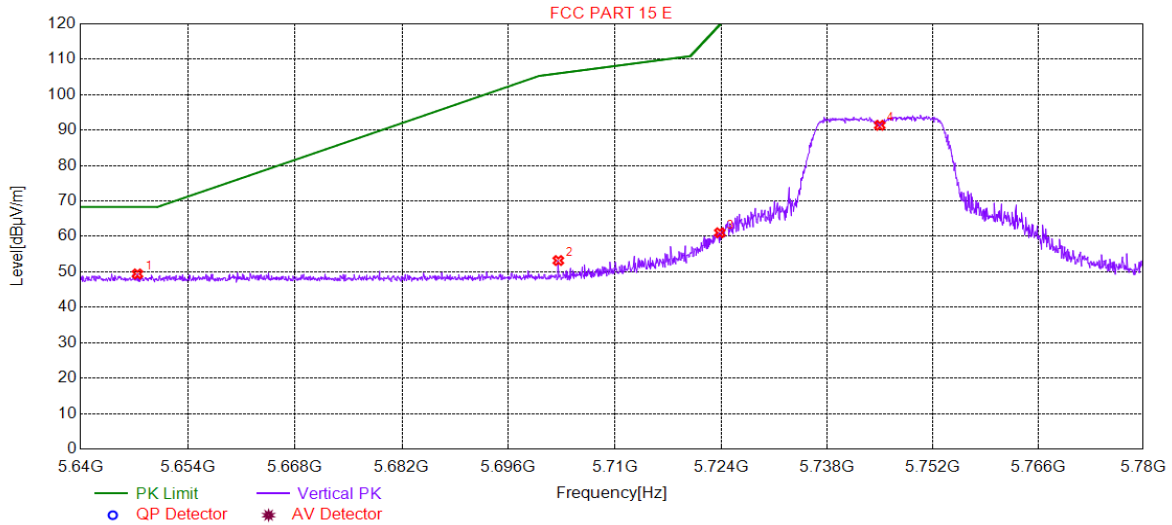
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	97.34	8.51	68.30	-29.04	150	217	Horizontal
2	5725.43	57.05	8.57	68.30	11.25	150	303	Horizontal
3	5750.47	51.43	8.63	68.30	16.87	150	285	Horizontal
4	5768.29	51.35	8.67	68.30	16.95	150	224	Horizontal



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**4.9.1.61 11AC20\_149 ANT 1\_Peak\_Vertical**



**Suspected List**

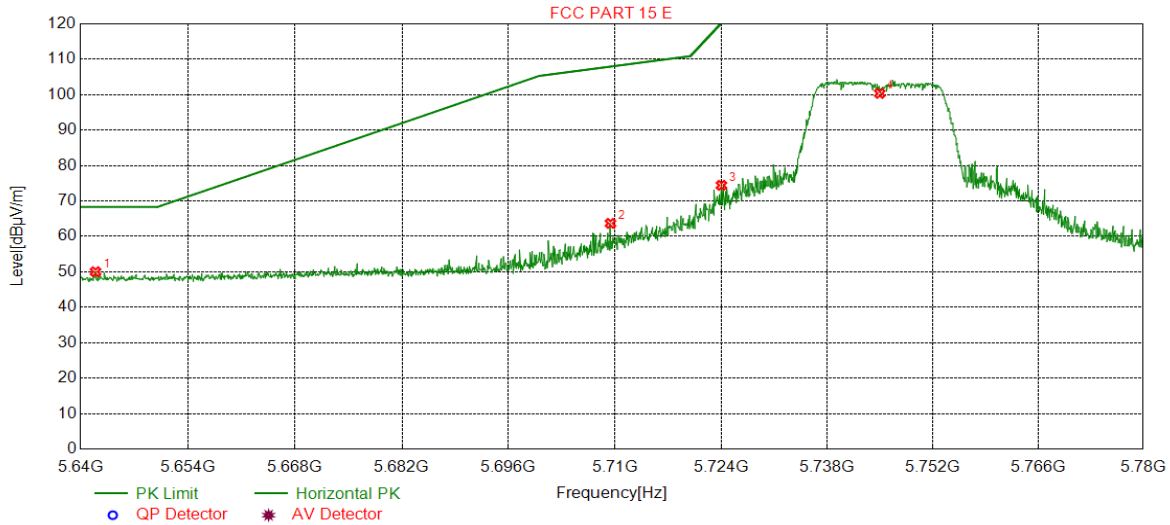
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.42	49.42	8.43	68.30	18.88	150	155	Vertical
2	5702.54	53.19	8.52	106.01	52.82	150	187	Vertical
3	5723.83	61.03	8.56	119.64	58.61	150	183	Vertical
4	5745.00	91.36	8.61	0.00	-91.36	150	169	Vertical



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**4.9.1.62 11AC20\_149 ANT 1\_Peak\_Horizontal**



**Suspected List**

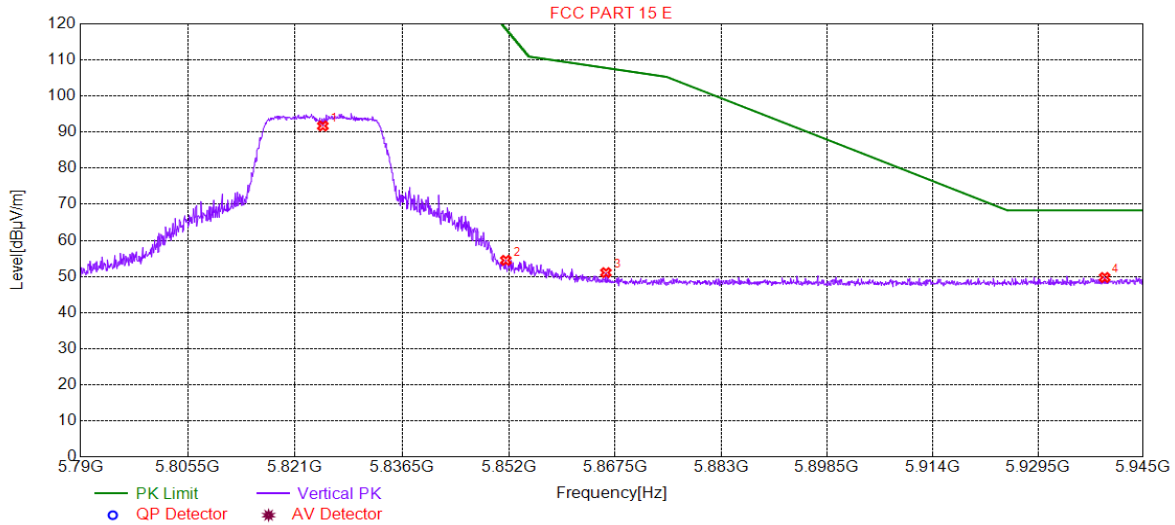
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5641.96	50.04	8.42	68.30	18.26	150	219	Horizontal
2	5709.40	63.69	8.53	107.93	44.24	150	223	Horizontal
3	5724.04	74.43	8.57	120.12	45.69	150	223	Horizontal
4	5745.00	100.37	8.61	0.00	-100.37	150	219	Horizontal



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4.9.1.63 11AC20\_165 ANT 1\_Peak\_Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	91.70	8.82	0.00	-91.70	150	169	Vertical
2	5851.56	54.47	8.89	118.73	64.26	150	173	Vertical
3	5866.14	51.06	8.94	107.78	56.72	150	159	Vertical
4	5939.33	49.72	9.16	68.30	18.58	150	134	Vertical

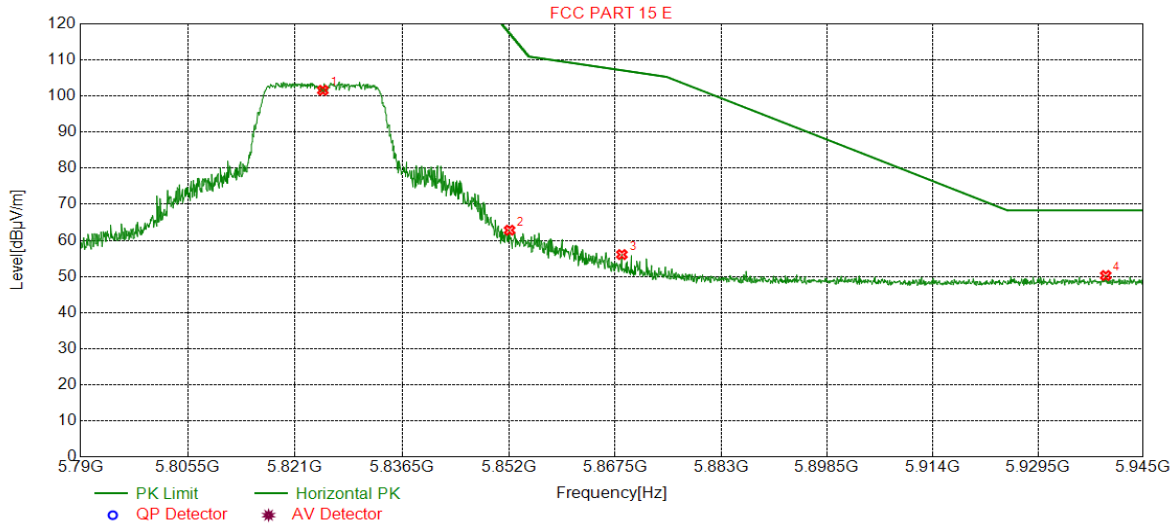


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4.9.1.64 11AC20\_165 ANT 1\_Peak\_Horizontal



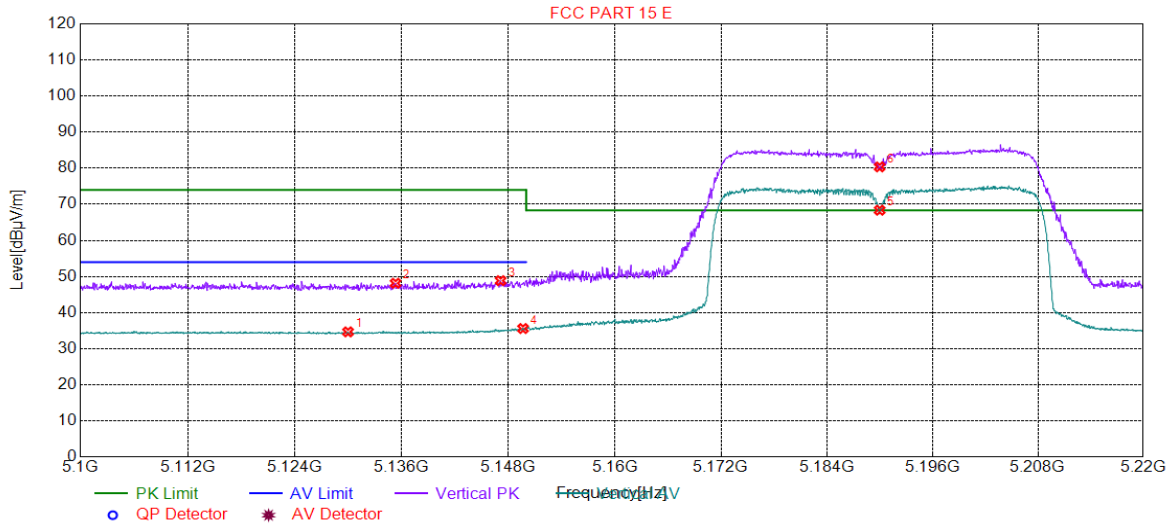
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	101.58	8.82	0.00	-101.58	150	220	Horizontal
2	5852.10	62.82	8.90	117.49	54.67	150	220	Horizontal
3	5868.46	56.07	8.95	107.13	51.06	150	220	Horizontal
4	5939.49	50.26	9.16	68.30	18.04	150	279	Horizontal



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**4.9.1.65 11AC40\_38 ANT 1\_ Peak\_Vertical**



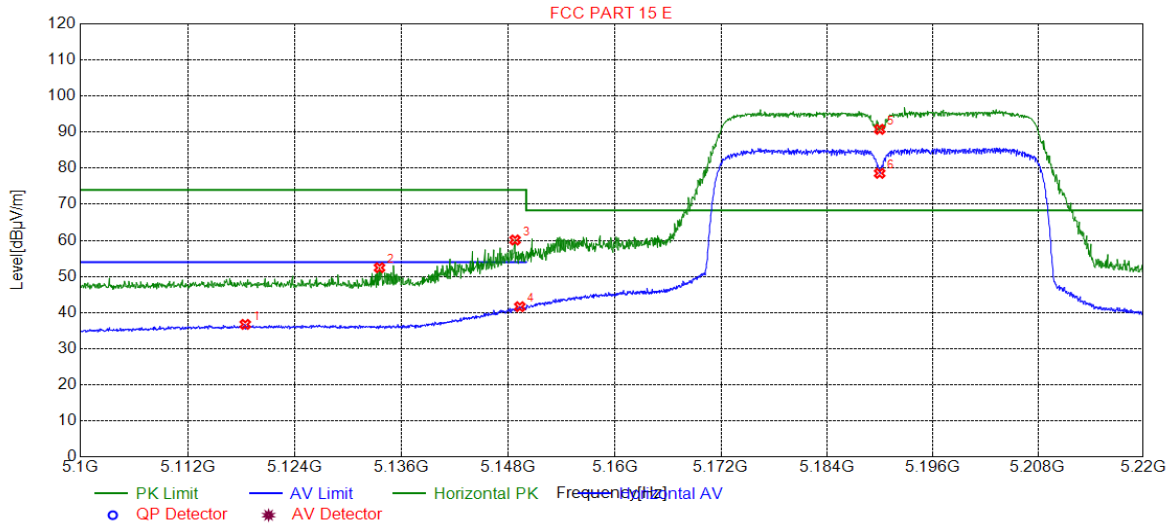
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.95	34.66	7.52	54.00	19.34	150	157	Vertical
2	5135.29	48.13	7.53	74.00	25.87	150	127	Vertical
3	5147.12	48.84	7.55	74.00	25.16	150	89	Vertical
4	5149.64	35.58	7.55	54.00	18.42	150	89	Vertical
5	5190.00	68.37	7.62	0.00	-68.37	150	73	Vertical
6	5190.00	80.37	7.62	68.30	-12.07	150	73	Vertical



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**4.9.1.66 11AC40\_38 ANT 1\_Peak\_Horizontal**

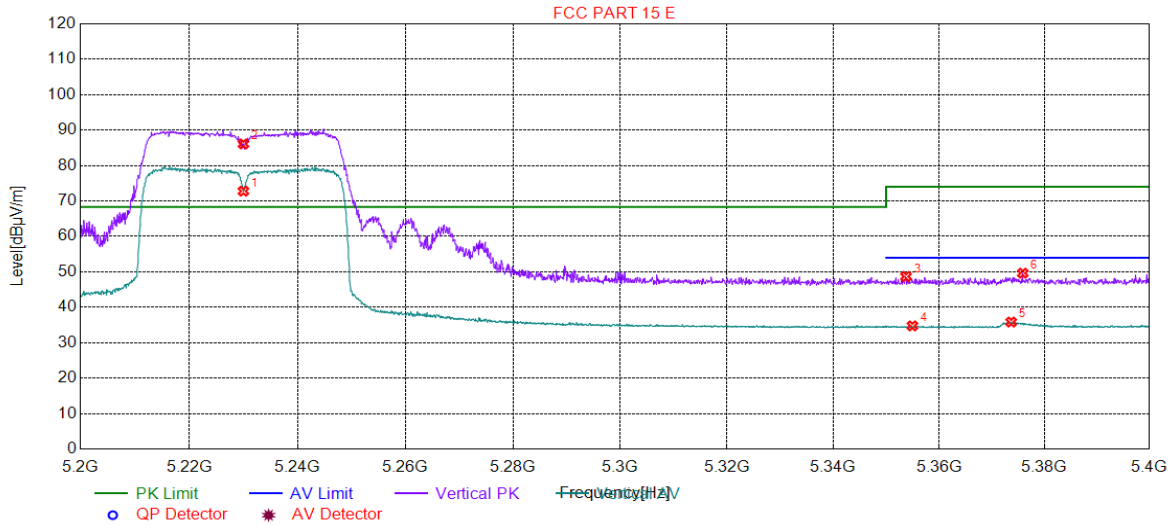


**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5118.42	36.73	7.50	54.00	17.27	150	223	Horizontal
2	5133.49	52.43	7.53	74.00	21.57	150	227	Horizontal
3	5148.74	60.11	7.55	74.00	13.89	150	227	Horizontal
4	5149.28	41.63	7.55	54.00	12.37	150	223	Horizontal
5	5190.00	90.77	7.62	68.30	-22.47	150	223	Horizontal
6	5190.00	78.58	7.62	0.00	-78.58	150	227	Horizontal



**4.9.1.67 11AC40\_46 ANT 1\_ Peak\_Vertical**



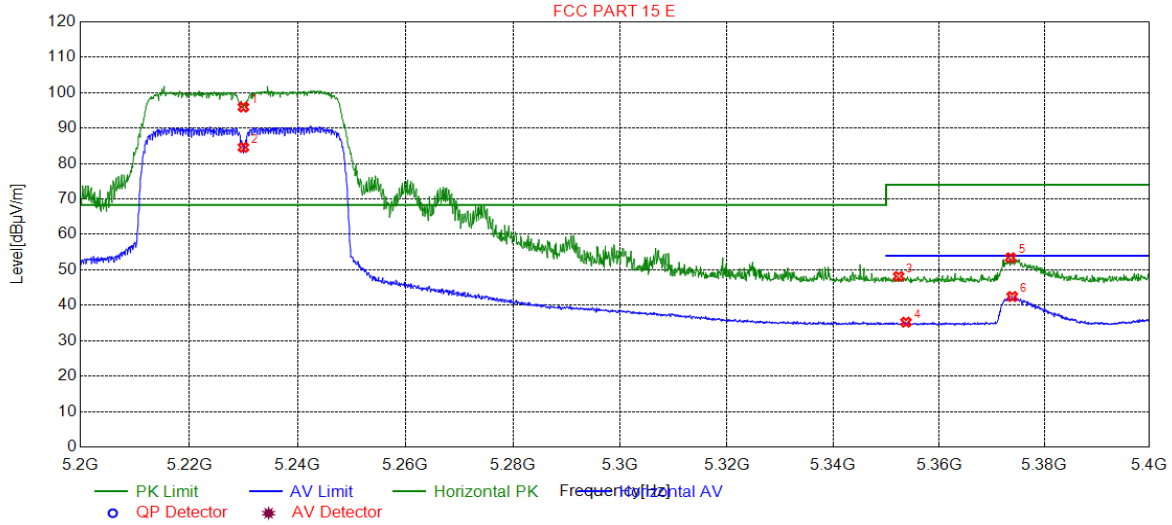
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	72.78	7.67	0.00	-72.78	150	83	Vertical
2	5230.00	86.10	7.67	68.30	-17.80	150	88	Vertical
3	5353.77	48.69	7.85	74.00	25.31	150	325	Vertical
4	5354.97	34.76	7.85	54.00	19.24	150	117	Vertical
5	5373.68	35.84	7.89	54.00	18.16	150	92	Vertical
6	5375.88	49.64	7.89	74.00	24.36	150	126	Vertical



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**4.9.1.68 11AC40\_46 ANT 1\_Peak\_Horizontal**



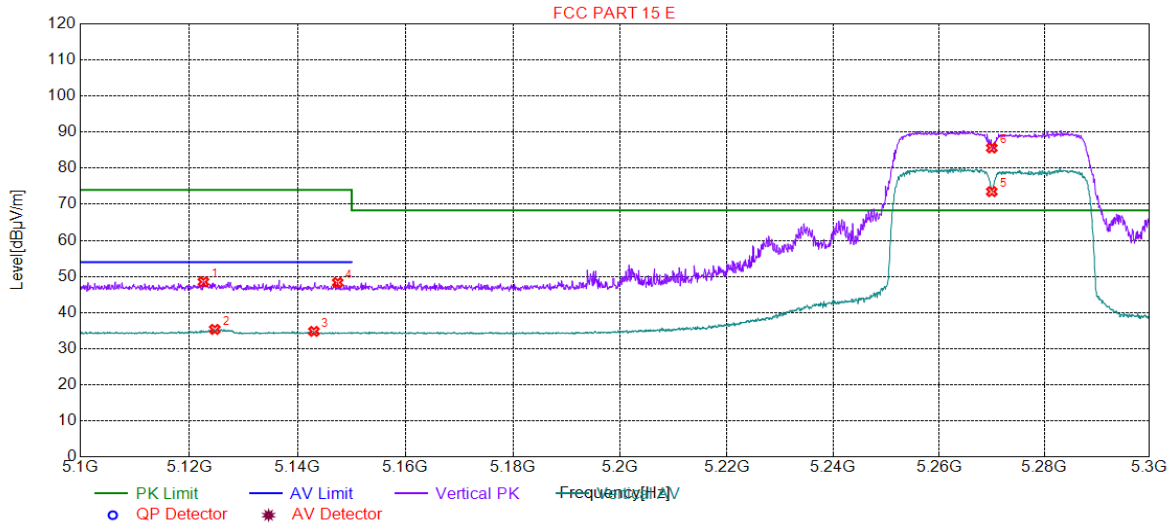
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	95.94	7.67	68.30	-27.64	150	225	Horizontal
2	5230.00	84.56	7.67	0.00	-84.56	150	220	Horizontal
3	5352.37	48.15	7.84	74.00	25.85	150	220	Horizontal
4	5353.77	35.24	7.85	54.00	18.76	150	216	Horizontal
5	5373.58	53.41	7.89	74.00	20.59	150	225	Horizontal
6	5373.88	42.48	7.89	54.00	11.52	150	220	Horizontal



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**4.9.1.69 11AC40\_54 ANT 1\_Peak\_Vertical**



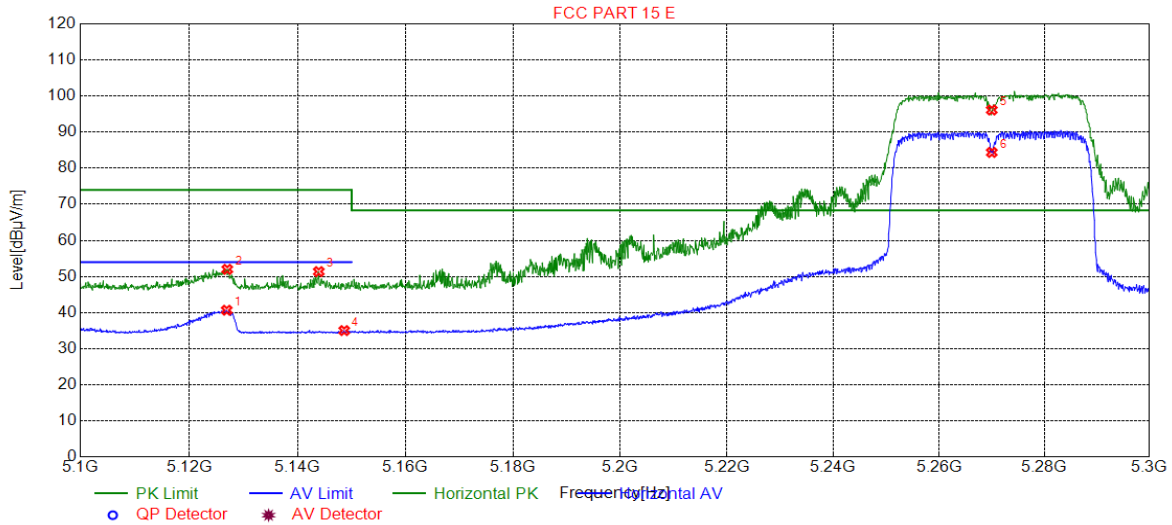
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.61	48.51	7.51	74.00	25.49	150	320	Vertical
2	5124.71	35.34	7.51	54.00	18.66	150	92	Vertical
3	5143.02	34.79	7.54	54.00	19.21	150	302	Vertical
4	5147.42	48.32	7.55	74.00	25.68	150	315	Vertical
5	5270.00	73.51	7.71	0.00	-73.51	150	187	Vertical
6	5270.00	85.61	7.71	68.30	-17.31	150	182	Vertical



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**4.9.1.70 11AC40\_54 ANT 1\_Peak\_Horizontal**



**Suspected List**

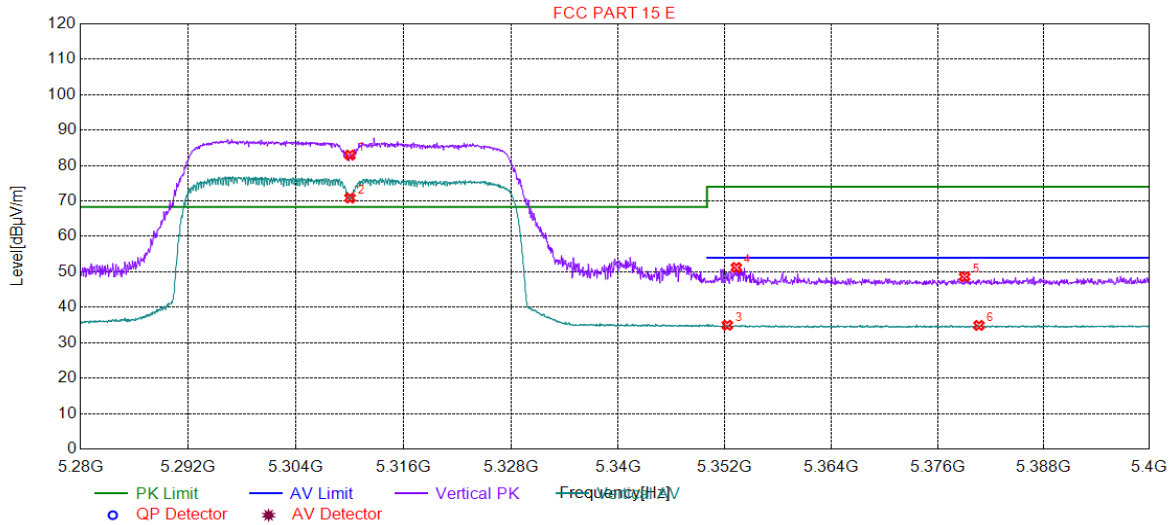
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.91	40.65	7.52	54.00	13.35	150	225	Horizontal
2	5127.01	51.98	7.52	74.00	22.02	150	225	Horizontal
3	5143.92	51.36	7.54	74.00	22.64	150	225	Horizontal
4	5148.62	35.01	7.55	54.00	18.99	150	225	Horizontal
5	5270.00	96.13	7.71	68.30	-27.83	150	225	Horizontal
6	5270.00	84.37	7.71	0.00	-84.37	150	220	Horizontal



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4.9.1.71 11AC40\_62 ANT 1\_Peak\_Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	82.95	7.76	68.30	-14.65	150	97	Vertical
2	5310.00	70.84	7.76	0.00	-70.84	150	97	Vertical
3	5352.27	34.94	7.84	54.00	19.06	150	187	Vertical
4	5353.29	51.24	7.85	74.00	22.76	150	154	Vertical
5	5379.04	48.61	7.90	74.00	25.39	150	183	Vertical
6	5380.67	34.89	7.90	54.00	19.11	150	144	Vertical

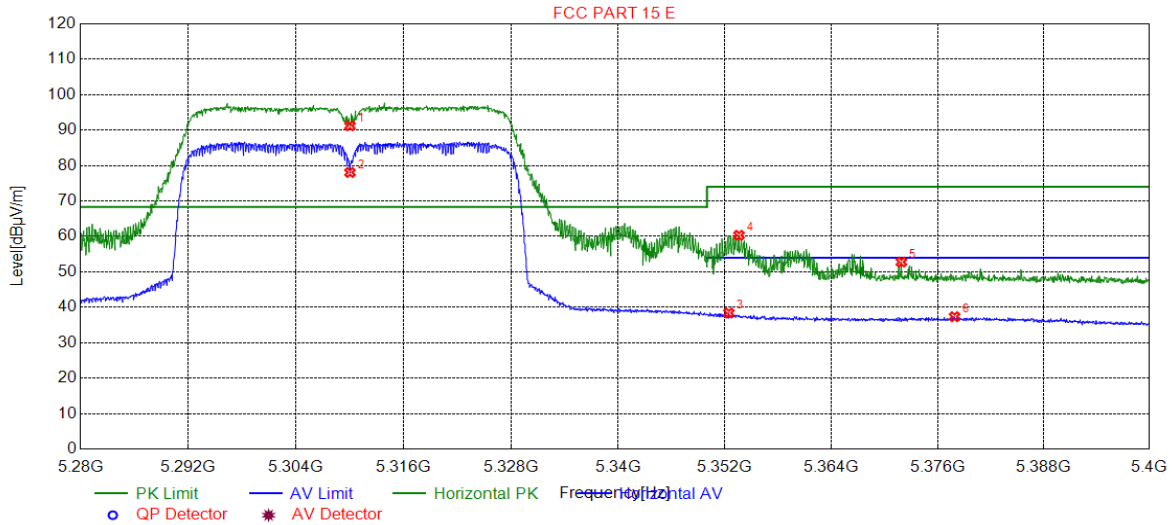


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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



4.9.1.72 11AC40\_62 ANT 1\_Peak\_Horizontal



Suspected List

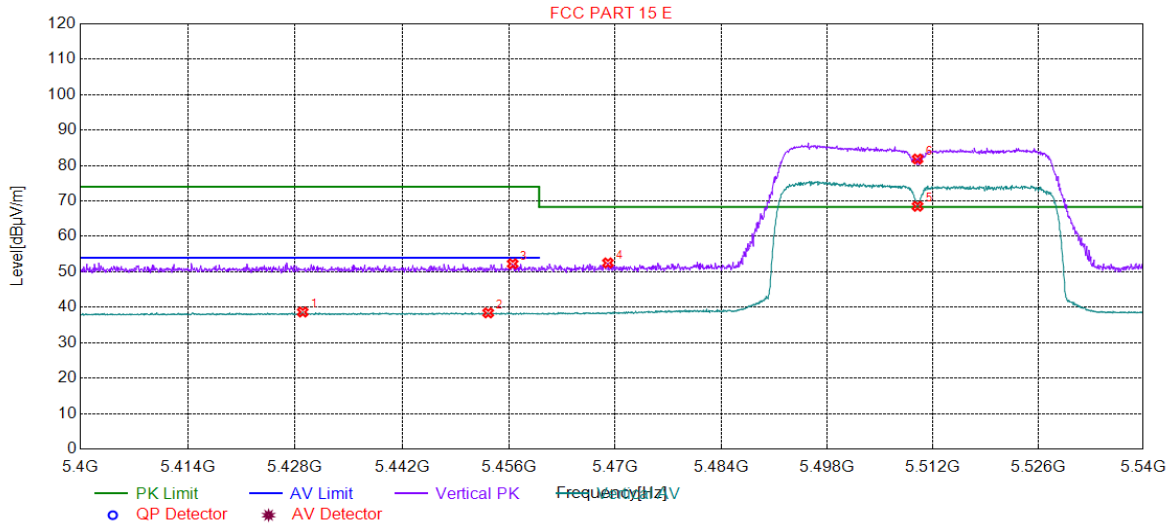
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	91.21	7.76	68.30	-22.91	150	221	Horizontal
2	5310.00	78.05	7.76	0.00	-78.05	150	202	Horizontal
3	5352.45	38.40	7.84	54.00	15.60	150	221	Horizontal
4	5353.59	60.32	7.85	74.00	13.68	150	221	Horizontal
5	5371.90	52.77	7.88	74.00	21.23	150	221	Horizontal
6	5377.90	37.35	7.90	54.00	16.65	150	221	Horizontal



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**4.9.1.73 11AC40\_102 ANT 1\_Peak\_Vertical**



**Suspected List**

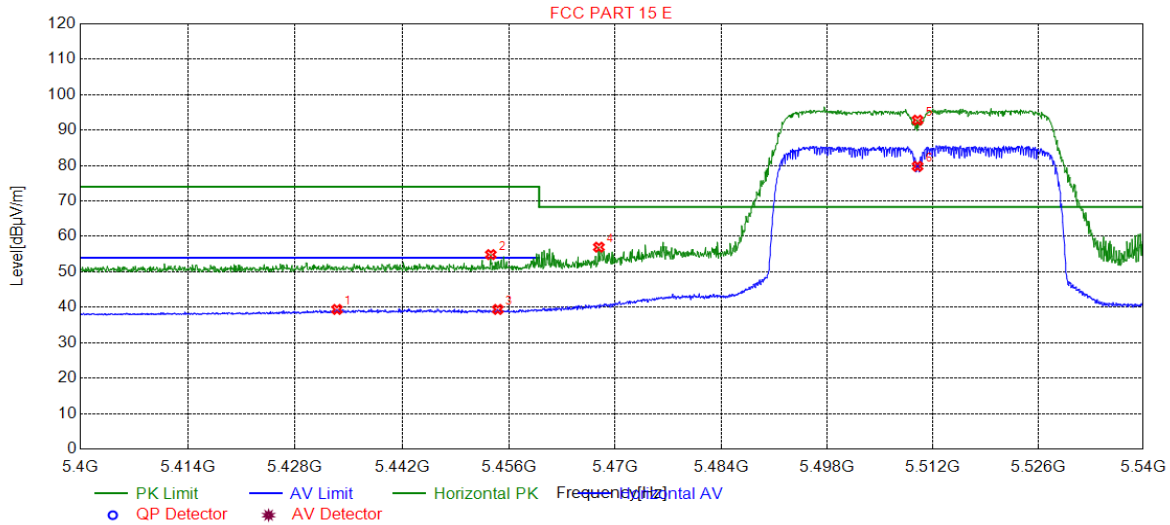
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5428.99	38.66	7.99	54.00	15.34	150	142	Vertical
2	5453.29	38.42	8.03	54.00	15.58	150	206	Vertical
3	5456.51	52.28	8.03	74.00	21.72	150	11	Vertical
4	5469.05	52.52	8.05	68.30	15.78	150	263	Vertical
5	5510.00	68.51	8.13	0.00	-68.51	150	79	Vertical
6	5510.00	81.86	8.13	68.30	-13.56	150	152	Vertical



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4.9.1.74 11AC40\_102 ANT 1\_Peak\_Horizontal



Suspected List

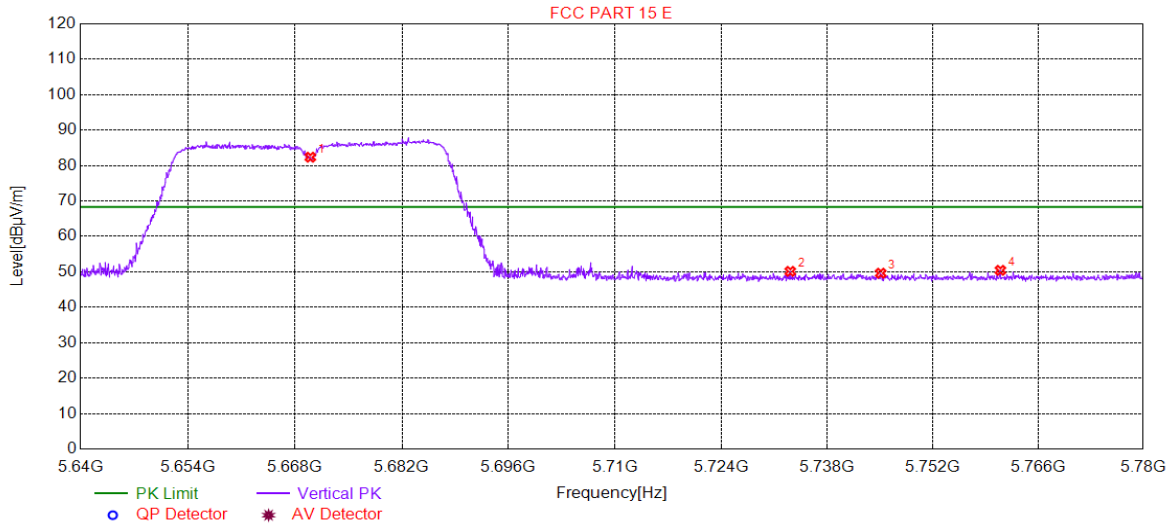
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5433.47	39.40	7.99	54.00	14.60	150	225	Horizontal
2	5453.64	54.87	8.03	74.00	19.13	150	220	Horizontal
3	5454.55	39.40	8.03	54.00	14.60	150	225	Horizontal
4	5467.86	56.97	8.05	68.30	11.33	150	220	Horizontal
5	5510.00	92.82	8.13	68.30	-24.52	150	220	Horizontal
6	5510.00	79.80	8.13	0.00	-79.80	150	220	Horizontal



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**4.9.1.75 11AC40\_134 ANT 1\_Peak\_Vertical**



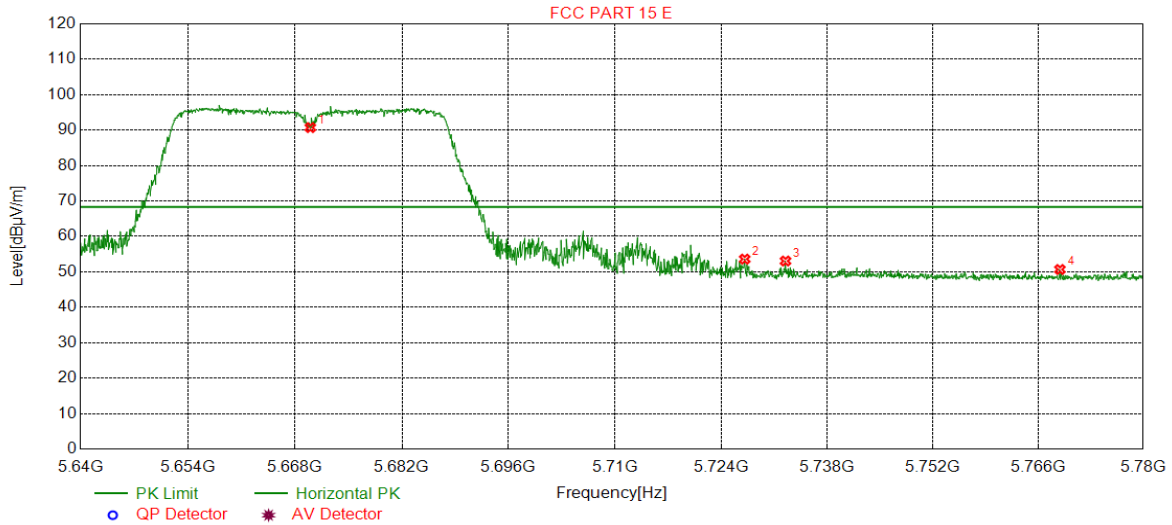
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	82.36	8.46	68.30	-14.06	150	184	Vertical
2	5733.14	50.14	8.59	68.30	18.16	150	184	Vertical
3	5745.12	49.62	8.61	68.30	18.68	150	219	Vertical
4	5761.02	50.43	8.65	68.30	17.87	150	91	Vertical



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**4.9.1.76 11AC40\_134 ANT 1\_Peak\_Horizontal**



**Suspected List**

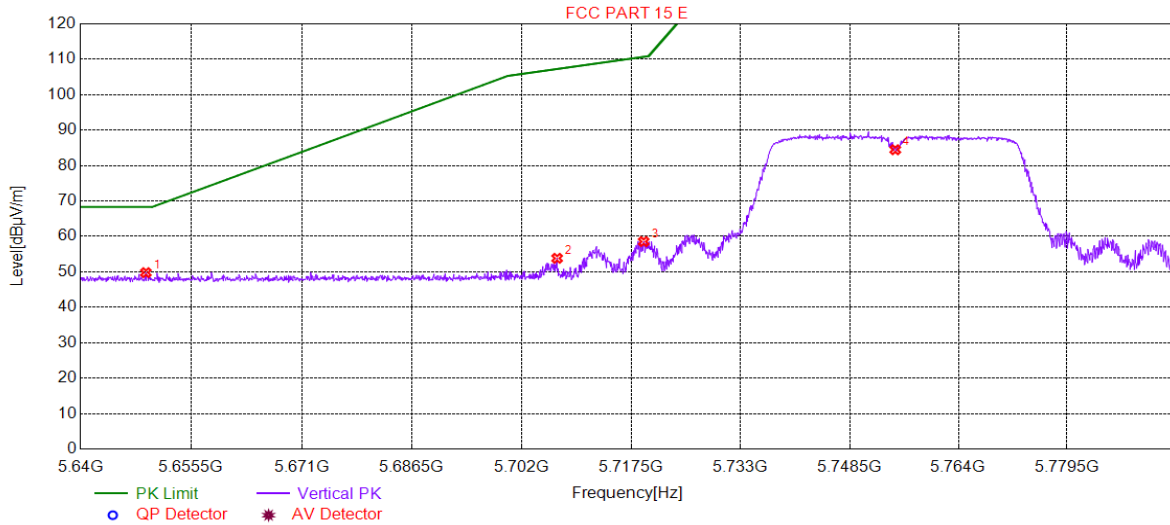
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	90.72	8.46	68.30	-22.42	150	219	Horizontal
2	5727.12	53.60	8.57	68.30	14.70	150	219	Horizontal
3	5732.51	53.06	8.58	68.30	15.24	150	222	Horizontal
4	5768.93	50.67	8.67	68.30	17.63	150	222	Horizontal



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**4.9.1.77 11AC40\_151 ANT 1\_Peak\_Vertical**



**Suspected List**

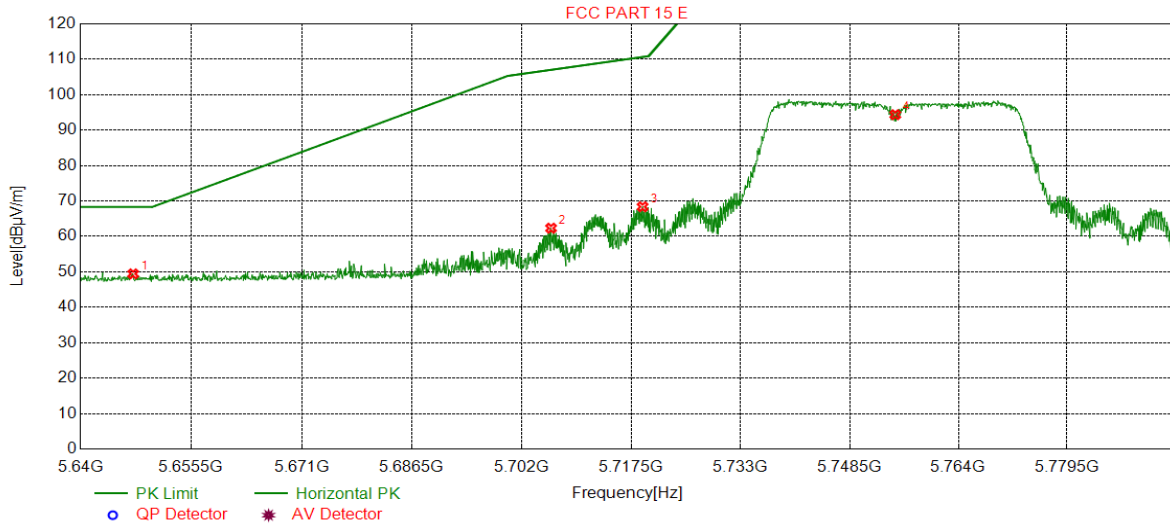
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5649.14	49.78	8.43	68.30	18.52	150	59	Vertical
2	5706.99	53.83	8.53	107.26	53.43	150	184	Vertical
3	5719.24	58.54	8.55	110.69	52.15	150	166	Vertical
4	5755.00	84.47	8.64	0.00	-84.47	150	166	Vertical



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**4.9.1.78 11AC40\_151 ANT 1\_Peak\_Horizontal**



**Suspected List**

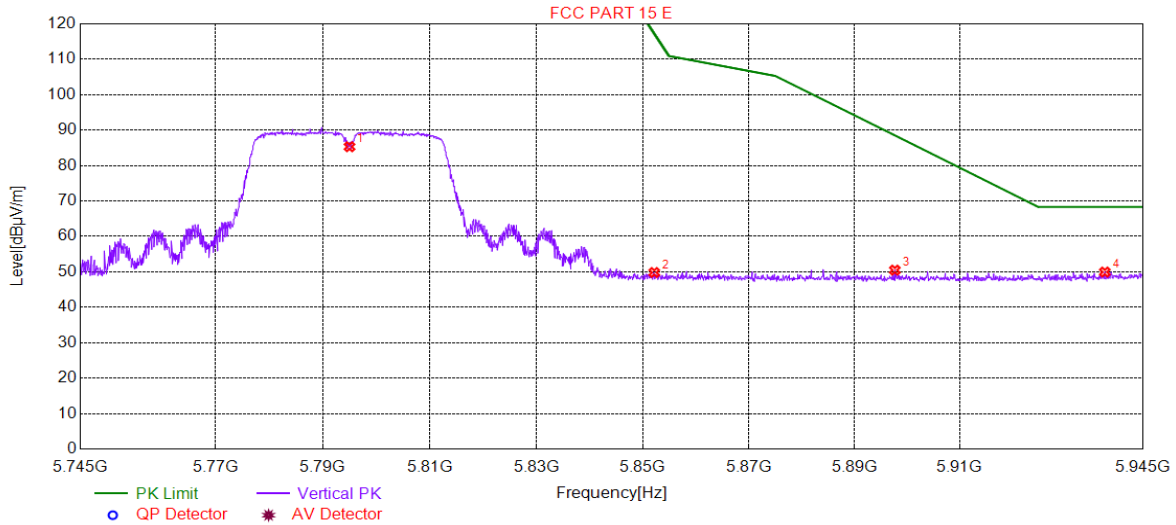
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.36	49.44	8.43	68.30	18.86	150	268	Horizontal
2	5706.14	62.33	8.52	107.02	44.69	150	222	Horizontal
3	5719.08	68.37	8.55	110.65	42.28	150	222	Horizontal
4	5755.00	94.35	8.64	0.00	-94.35	150	222	Horizontal



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**4.9.1.79 11AC40\_159 ANT 1\_Peak\_Vertical**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	85.31	8.73	0.00	-85.31	150	179	Vertical
2	5852.15	49.82	8.90	117.39	67.57	150	302	Vertical
3	5897.67	50.49	9.03	88.52	38.03	150	44	Vertical
4	5937.69	49.95	9.15	68.30	18.35	150	193	Vertical

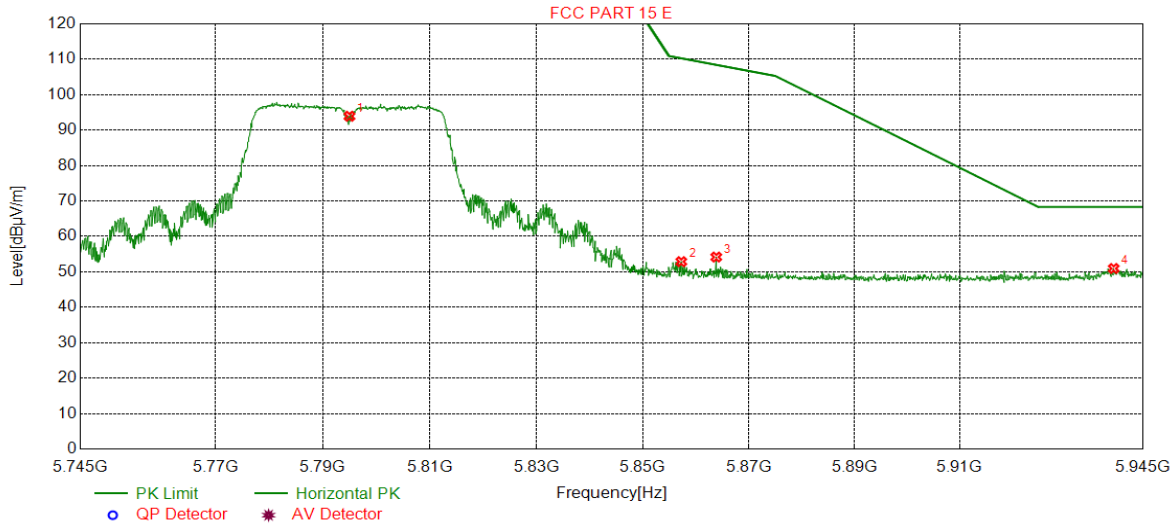


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**4.9.1.80 11AC40\_159 ANT 1\_Peak\_Horizontal**



**Suspected List**

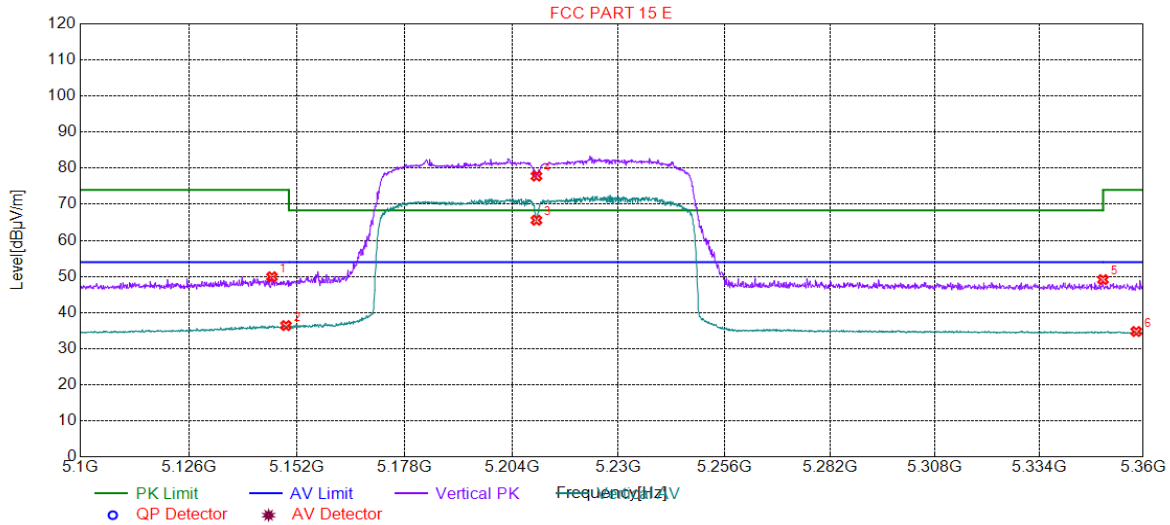
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	93.92	8.73	0.00	-93.92	150	224	Horizontal
2	5857.25	52.88	8.91	110.27	57.39	150	224	Horizontal
3	5863.85	54.18	8.93	108.42	54.24	150	224	Horizontal
4	5939.39	50.95	9.16	68.30	17.35	150	228	Horizontal



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**4.9.1.81 11AC80\_42 ANT 1\_Peak\_Vertical**



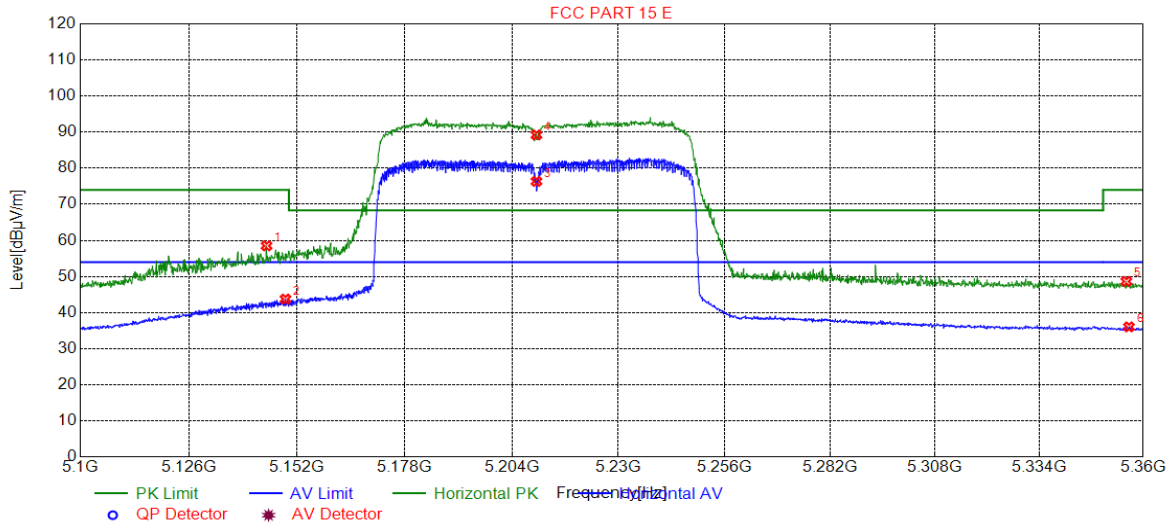
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5145.91	49.93	7.55	74.00	24.07	150	96	Vertical
2	5149.29	36.40	7.55	54.00	17.60	150	183	Vertical
3	5210.00	65.59	7.65	54.00	-11.59	150	82	Vertical
4	5210.00	77.82	7.65	68.30	-9.52	150	183	Vertical
5	5349.98	49.14	7.84	68.30	19.16	150	178	Vertical
6	5358.30	34.75	7.86	54.00	19.25	150	173	Vertical



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**4.9.1.82 11AC80\_42 ANT 1\_Peak\_Horizontal**



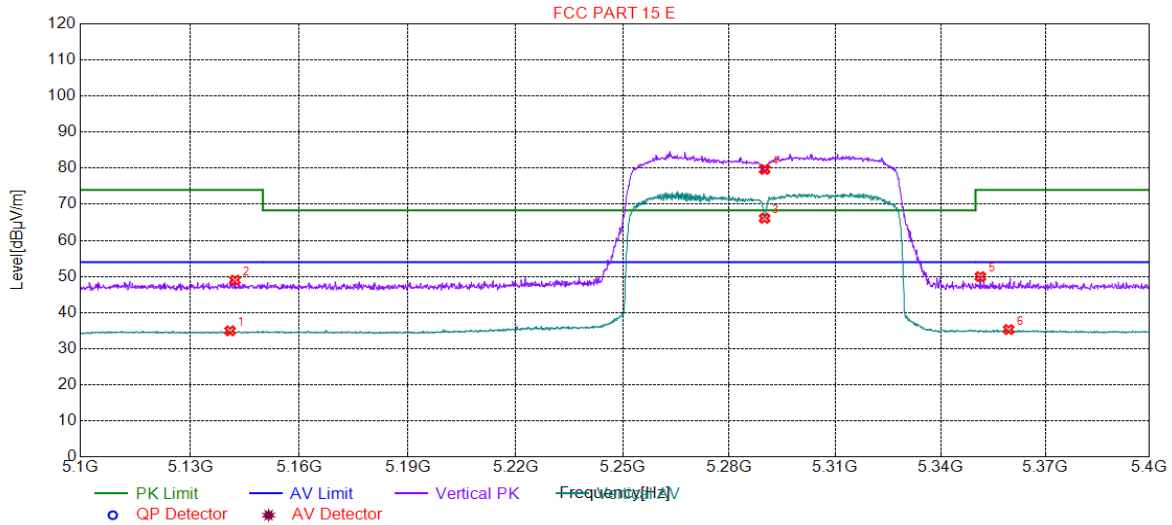
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.61	58.50	7.55	74.00	15.50	150	229	Horizontal
2	5149.16	43.74	7.55	54.00	10.26	150	229	Horizontal
3	5210.00	76.35	7.65	54.00	-22.35	150	229	Horizontal
4	5210.00	89.23	7.65	68.30	-20.93	150	224	Horizontal
5	5355.83	48.63	7.85	74.00	25.37	150	205	Horizontal
6	5356.48	36.04	7.85	54.00	17.96	150	224	Horizontal



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**4.9.1.83 11AC80\_58 ANT 1\_Peak\_Vertical**



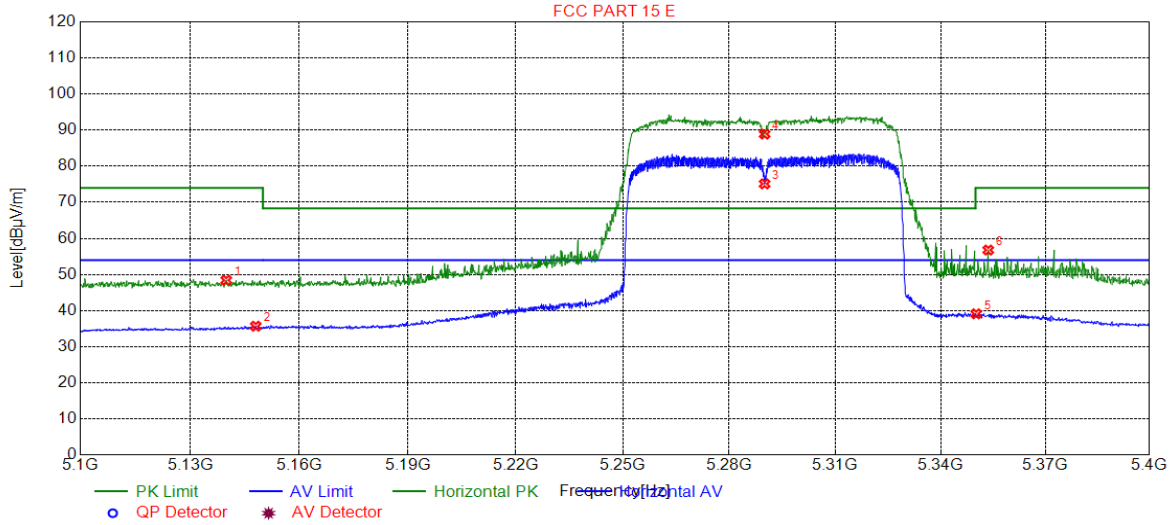
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5140.97	34.94	7.54	54.00	19.06	150	179	Vertical
2	5142.32	48.97	7.54	74.00	25.03	150	100	Vertical
3	5290.00	66.12	7.73	54.00	-12.12	150	134	Vertical
4	5290.00	79.68	7.73	68.30	-11.38	150	105	Vertical
5	5351.37	49.97	7.84	74.00	24.03	150	179	Vertical
6	5359.47	35.29	7.86	54.00	18.71	150	86	Vertical



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**4.9.1.84 11AC80\_58 ANT 1\_Peak\_Horizontal**



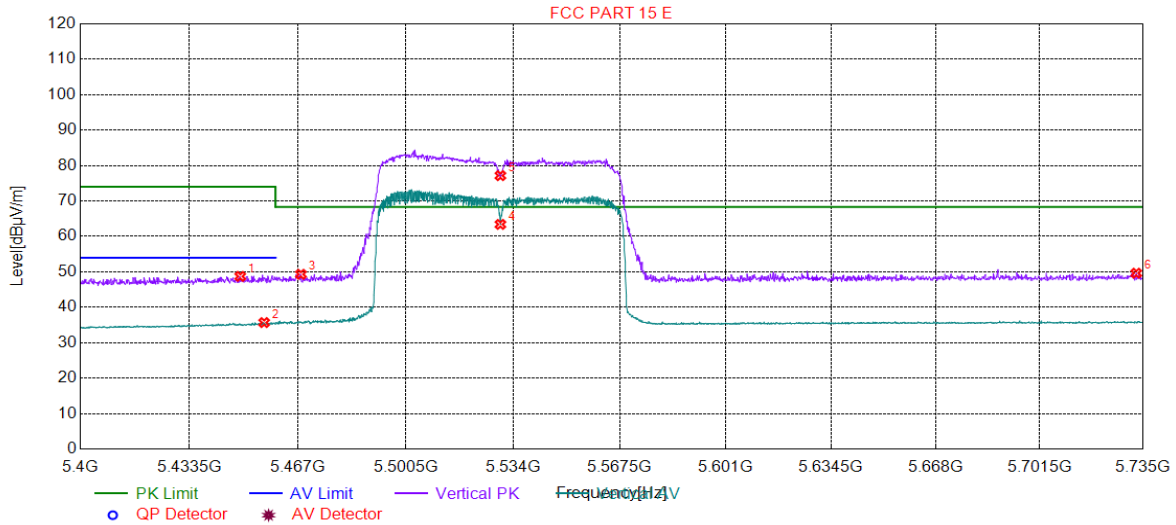
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.92	48.42	7.54	74.00	25.58	150	217	Horizontal
2	5148.02	35.68	7.55	54.00	18.32	150	231	Horizontal
3	5290.00	75.11	7.73	54.00	-21.11	150	226	Horizontal
4	5290.00	88.90	7.73	68.30	-20.60	150	226	Horizontal
5	5350.17	39.10	7.84	54.00	14.90	150	226	Horizontal
6	5353.62	56.77	7.85	74.00	17.23	150	208	Horizontal



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4.9.1.85 11AC80\_106 ANT 1\_Peak\_Vertical



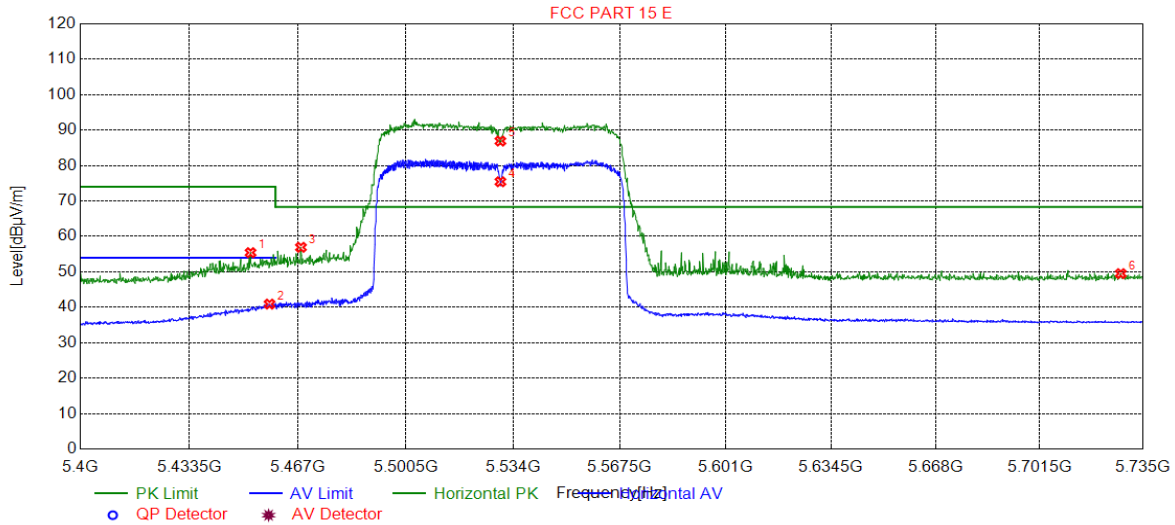
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.10	48.72	8.02	74.00	25.28	150	200	Vertical
2	5456.47	35.69	8.03	54.00	18.31	150	104	Vertical
3	5467.87	49.32	8.05	68.30	18.98	150	94	Vertical
4	5530.00	63.40	8.18	0.00	-63.40	150	186	Vertical
5	5530.00	77.15	8.18	68.30	-8.85	150	104	Vertical
6	5732.82	49.62	8.59	68.30	18.68	150	56	Vertical



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4.9.1.86 11AC80\_106 ANT 1\_Peak\_Horizontal



Suspected List

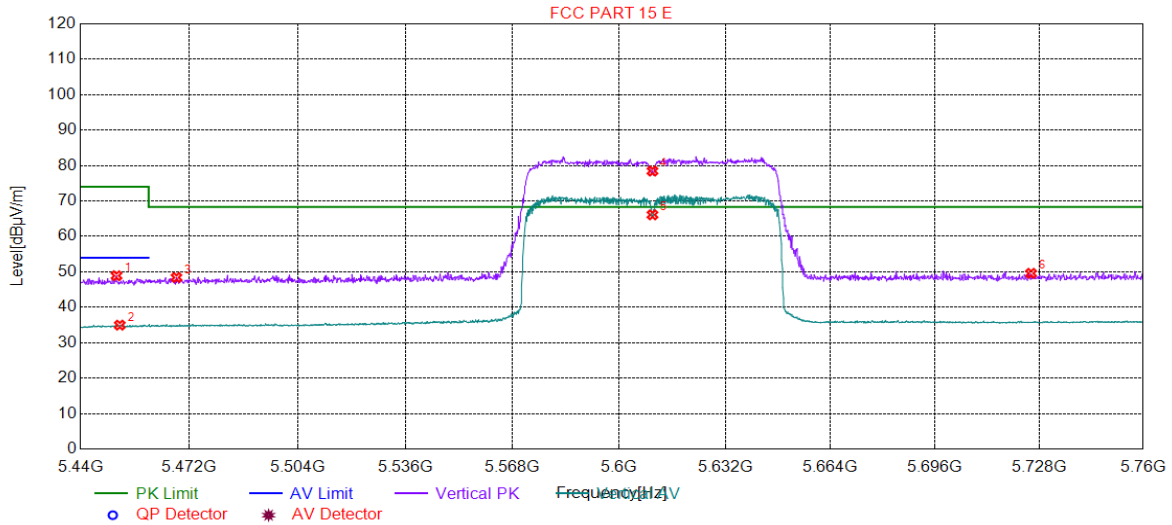
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5452.28	55.42	8.02	74.00	18.58	150	226	Horizontal
2	5458.15	40.90	8.03	54.00	13.10	150	226	Horizontal
3	5467.87	56.93	8.05	68.30	11.37	150	226	Horizontal
4	5530.00	75.43	8.18	0.00	-75.43	150	226	Horizontal
5	5530.00	86.92	8.18	68.30	-18.62	150	226	Horizontal
6	5727.79	49.51	8.57	68.30	18.79	150	30	Horizontal



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**4.9.1.87 11AC80\_122 ANT 1\_Peak\_Vertical**



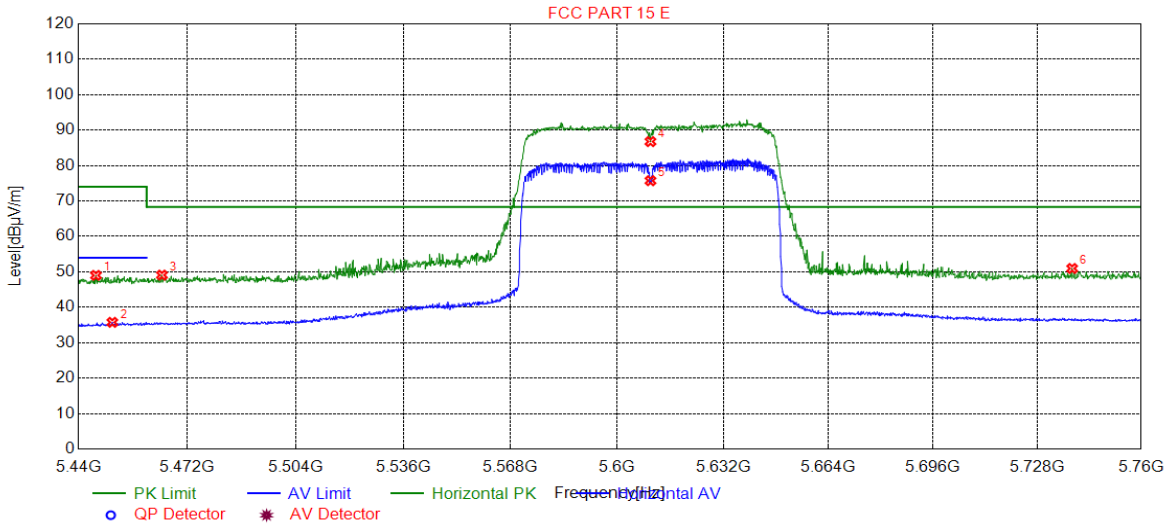
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.56	48.91	8.02	74.00	25.09	150	163	Vertical
2	5451.52	34.97	8.02	54.00	19.03	150	153	Vertical
3	5468.17	48.41	8.05	68.30	19.89	150	24	Vertical
4	5610.00	78.46	8.37	68.30	-10.16	150	101	Vertical
5	5610.00	66.10	8.37	0.00	-66.10	150	106	Vertical
6	5725.42	49.58	8.57	68.30	18.72	150	34	Vertical





**4.9.1.88 11AC80\_122 ANT 1\_Peak\_Horizontal**

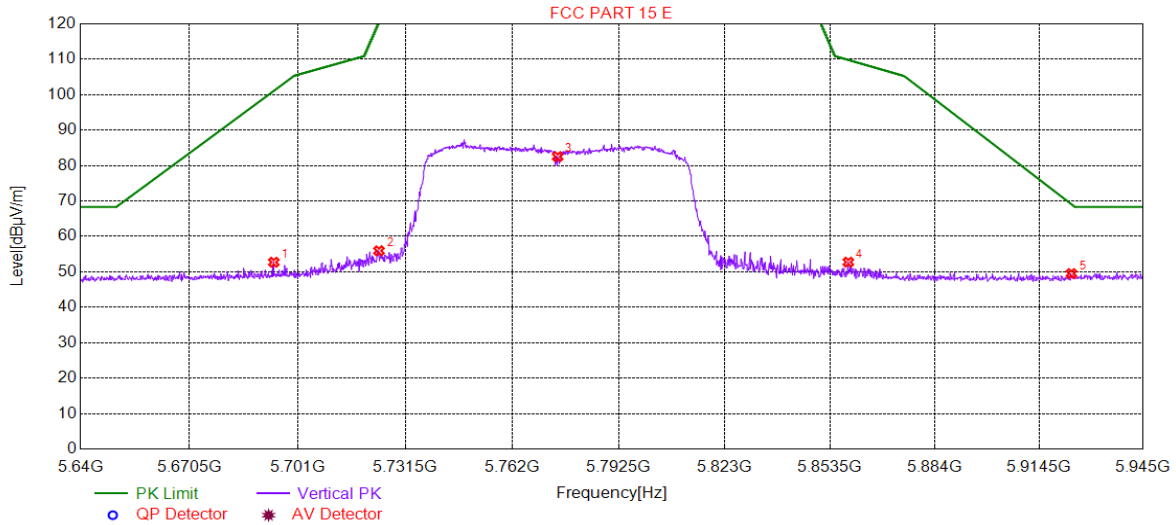


**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.12	49.01	8.01	74.00	24.99	150	221	Horizontal
2	5449.92	35.76	8.02	54.00	18.24	150	226	Horizontal
3	5464.49	49.09	8.04	68.30	19.21	150	360	Horizontal
4	5610.00	86.76	8.37	68.30	-18.46	150	230	Horizontal
5	5610.00	75.72	8.37	0.00	-75.72	150	226	Horizontal
6	5738.70	50.96	8.60	68.30	17.34	150	230	Horizontal



**4.9.1.89 11AC80\_155 ANT 1\_Peak\_Vertical**



**Suspected List**

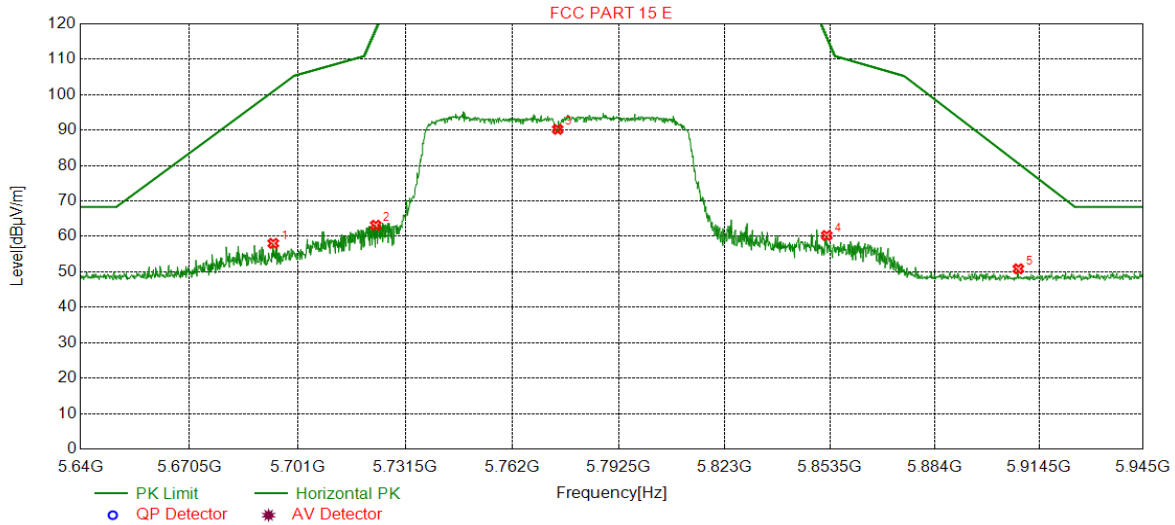
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5694.31	52.72	8.50	101.09	48.37	150	187	Vertical
2	5724.06	55.95	8.57	120.18	64.23	150	187	Vertical
3	5775.00	82.54	8.68	122.30	39.76	150	190	Vertical
4	5858.79	52.75	8.92	109.84	57.09	150	187	Vertical
5	5923.94	49.52	9.11	69.08	19.56	150	122	Vertical



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**4.9.1.90 11AC80\_155 ANT 1\_Peak\_Horizontal**



**Suspected List**

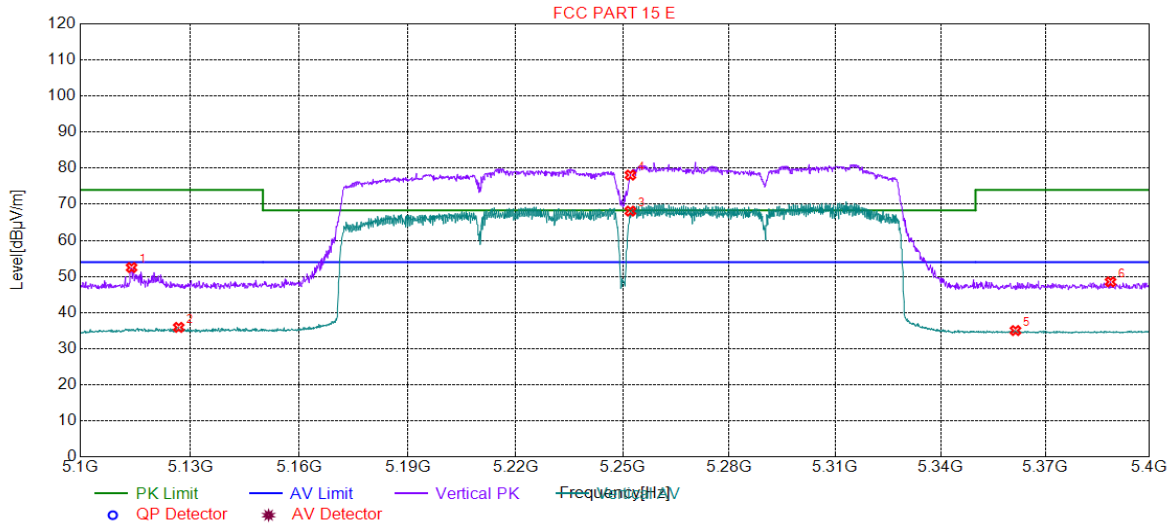
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5694.16	58.04	8.50	100.98	42.94	150	235	Horizontal
2	5723.15	63.16	8.56	118.09	54.93	150	225	Horizontal
3	5775.00	90.22	8.68	122.30	32.08	150	228	Horizontal
4	5852.53	60.26	8.90	116.51	56.25	150	225	Horizontal
5	5908.38	50.86	9.07	80.60	29.74	150	327	Horizontal



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**4.9.1.91 11AC160\_50 ANT 1\_Peak\_Vertical**



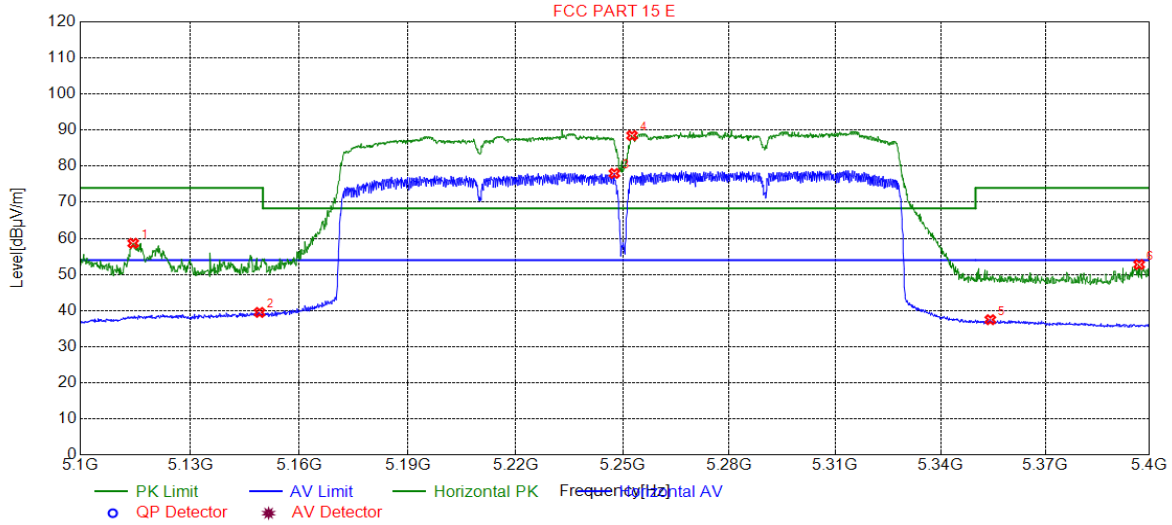
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5113.95	52.47	7.49	74.00	21.53	150	103	Vertical
2	5126.86	35.90	7.52	54.00	18.10	150	103	Vertical
3	5252.17	68.12	7.69	54.00	-14.12	150	108	Vertical
4	5252.17	78.09	7.69	68.30	-9.79	150	103	Vertical
5	5361.43	35.02	7.86	54.00	18.98	150	108	Vertical
6	5388.74	48.50	7.92	74.00	25.50	150	131	Vertical



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**4.9.1.92 11AC160\_50 ANT 1\_Peak\_Horizontal**



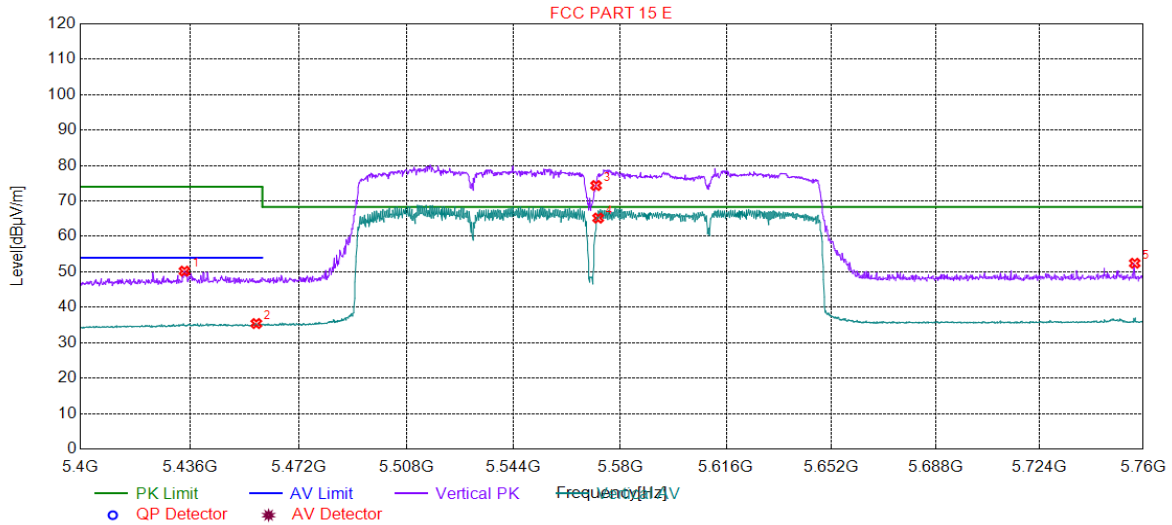
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.40	58.64	7.49	74.00	15.36	150	226	Horizontal
2	5149.07	39.49	7.55	54.00	14.51	150	226	Horizontal
3	5247.67	78.00	7.69	54.00	-24.00	150	226	Horizontal
4	5252.62	88.49	7.69	68.30	-20.19	150	234	Horizontal
5	5354.22	37.47	7.85	54.00	16.53	150	234	Horizontal
6	5396.99	52.77	7.93	74.00	21.23	150	222	Horizontal



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**4.9.1.93 11AC160\_114 ANT 1\_Peak\_Vertical**



**Suspected List**

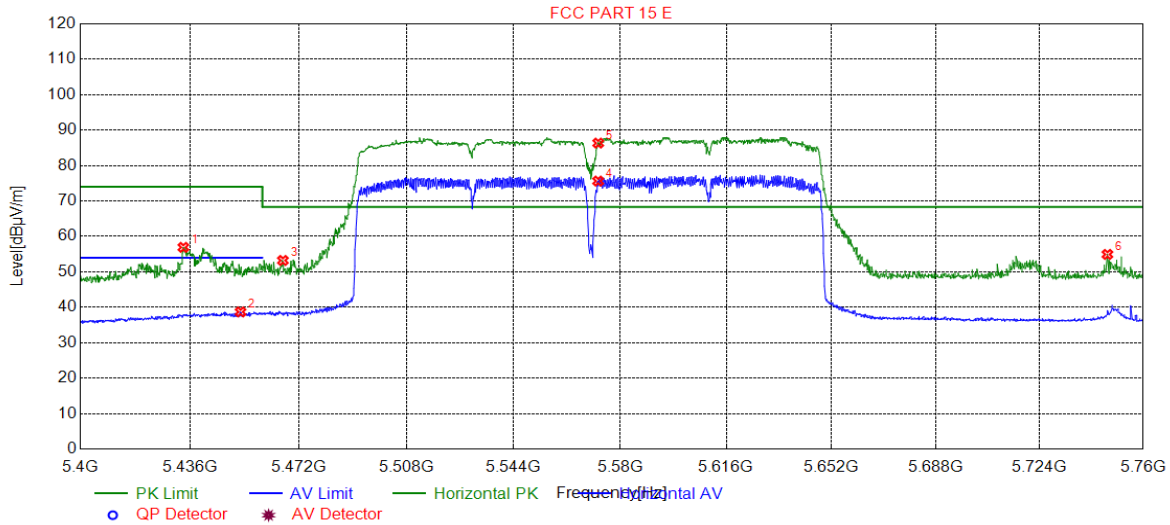
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5434.21	50.21	7.99	74.00	23.79	150	106	Vertical
2	5457.98	35.42	8.03	54.00	18.58	150	82	Vertical
3	5571.80	74.37	8.28	68.30	-6.07	150	82	Vertical
4	5572.50	65.18	8.28	0.00	-65.18	150	106	Vertical
5	5757.11	52.44	8.64	68.30	15.86	150	150	Vertical



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**4.9.1.94 11AC160\_114 ANT 1\_Peak\_Horizontal**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5433.85	56.92	7.99	74.00	17.08	150	226	Horizontal
2	5452.76	38.69	8.02	54.00	15.31	150	226	Horizontal
3	5466.81	53.22	8.05	68.30	15.08	150	226	Horizontal
4	5572.50	75.63	8.28	0.00	-75.63	150	221	Horizontal
5	5572.52	86.34	8.28	68.30	-18.04	150	226	Horizontal
6	5747.57	54.93	8.62	68.30	13.37	150	288	Horizontal

**Remark:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier Factor

All modes have been tested, but only the worst case data displayed in this report.



## 4.10 Frequencies Stability

### 4.10.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency ( MHz )	
	5180	5825
V nom(V)	5180.008321	5825.002955
V max(V)	5180.003175	5825.008167
V min(V)	5180.000841	5825.006854
Max. Deviation Frequency	0.008321	0.002955
Max. Frequency Error (ppm)	1.606371	1.402060

### 4.10.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency ( MHz )	
	5180	5825
-5	5180.001564	5825.009856
5	5180.0071661	5825.003475
15	5180.0007533	5825.018575
25	5180.0185151	5825.015843
35	5180.0126255	5825.029658
45	5180.0179911	5825.002325
50	5180.003621	5825.004331
Max. Deviation Frequency	0.0185151	0.029658
Max. Frequency Error (ppm)	3.5743436	5.091502





## 4.11 Dynamic Frequency Selection

### 4.11.1 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
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p><b>Note:</b> Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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**4.11.2 DFS Detection Thresholds**

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

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

**4.11.3 Response Requirements**

**Table 4: DFS Response Requirement Values**

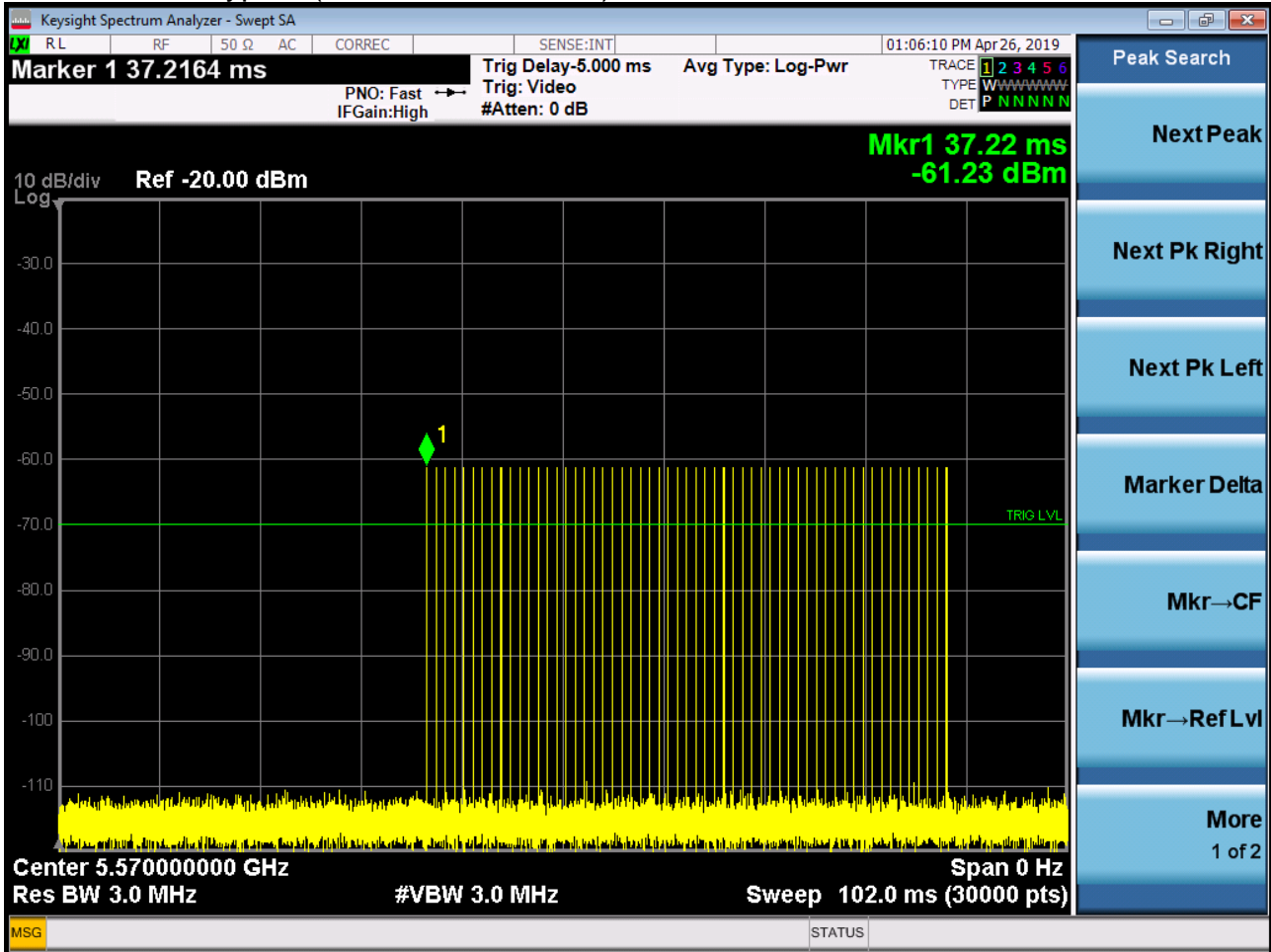
Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	



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4.11.4 Test plots  
 4.11.4.1 Radar Waveform Calibration Result  
 Radar Type 0 (160MHz / 5570MHz)



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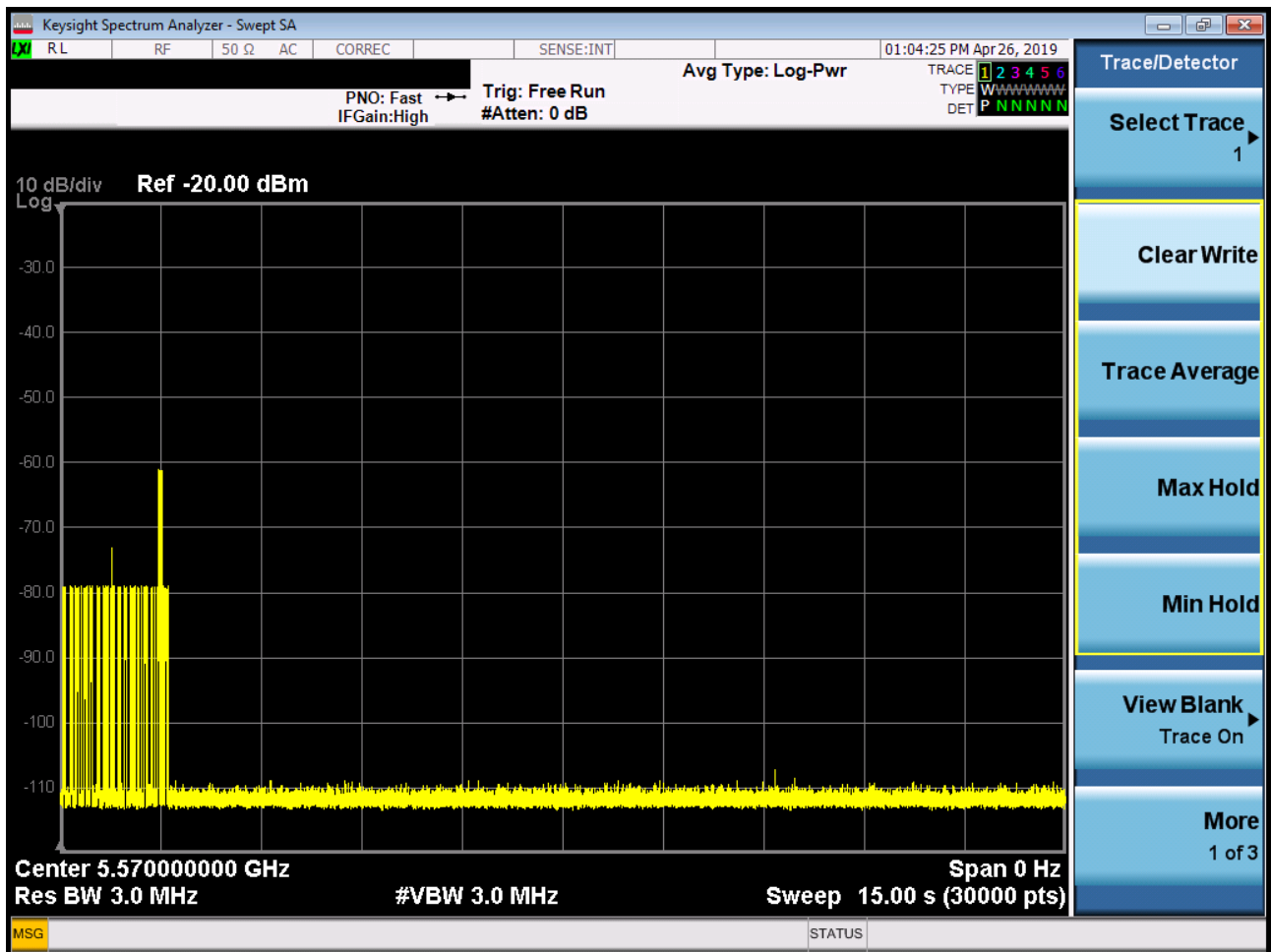
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 中国·深圳·科技园中区M-10栋一号厂房      邮编: 518057      t (86-755) 26012053      f (86-755) 26710594      sgs.china@sgs.com

**4.11.5 Test Data:**

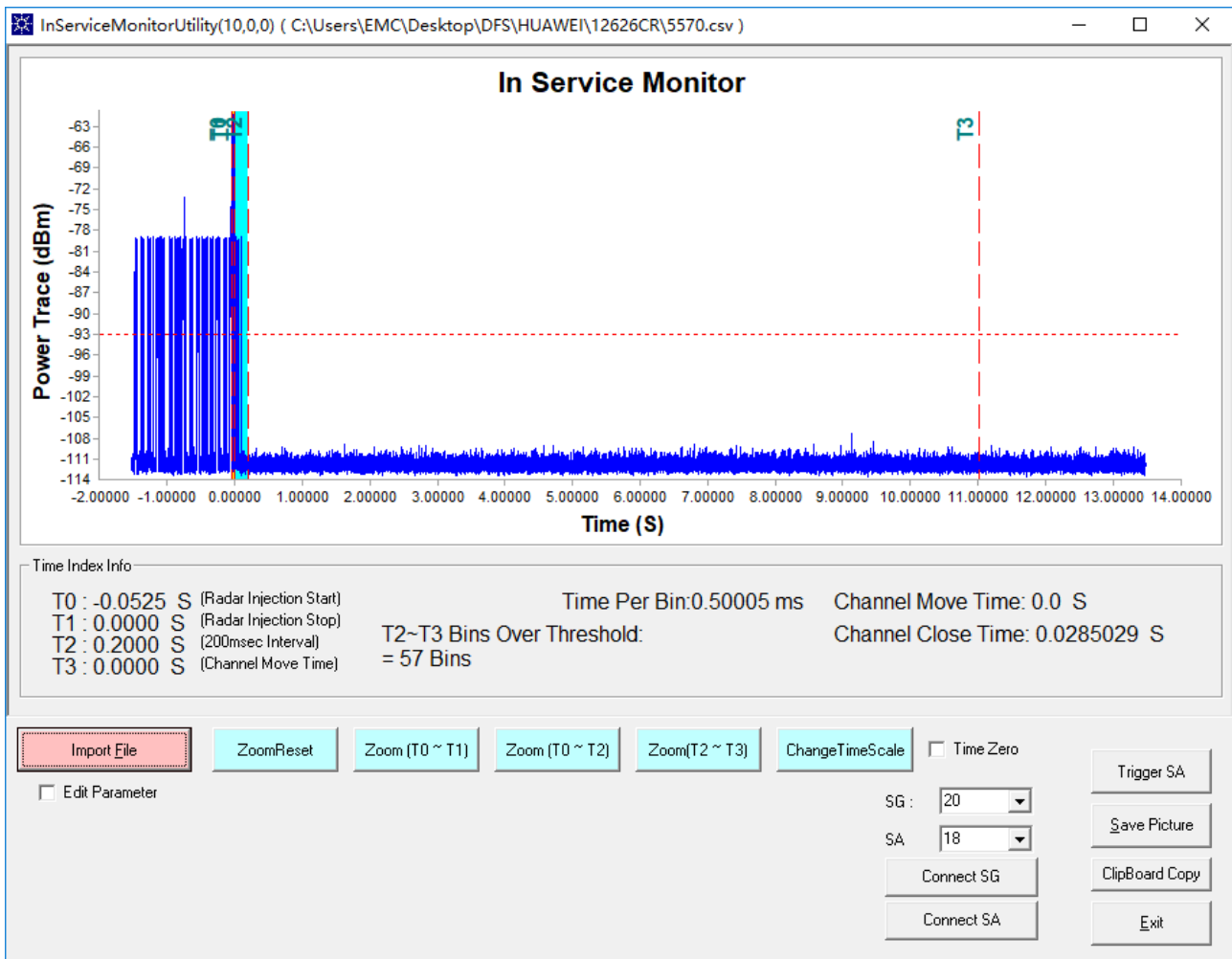
BW/Channel	Test Item	Test Result	Limit	Results
160MHz / 5570MHz	Channel Move Time	0s	<10s	Pass
	Channel Closing Transmission Time	28.5ms	<60ms	Pass

**4.11.5.1 Test plots**

**4.11.5.1.1 Test Bandwidth/Channel= 160MHz / 5570MHz**



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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	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2019/2/11	2020/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2019/2/11	2020/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1

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	2018/9/2	2019/9/2
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRV/S	SEM014-02	2018/9/2	2019/9/2
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1



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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)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2019/4/12	2020/4/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

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	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
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	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/11/20	2019/11/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
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	2018/7/12	2019/7/11



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## 7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for HR/2019/40008.

The End



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