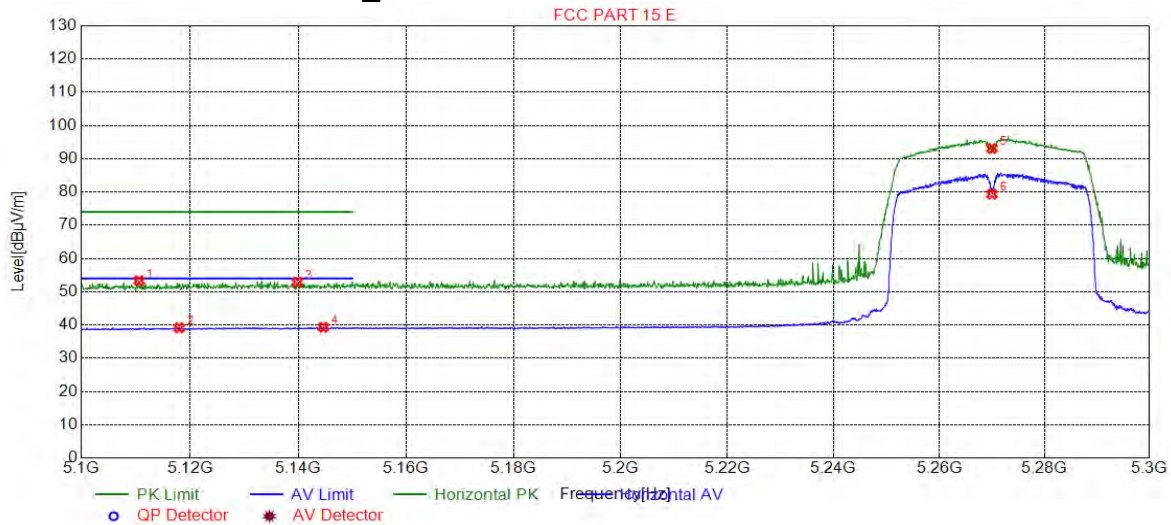


4.10.1.70 802.11AC40_Channel 54



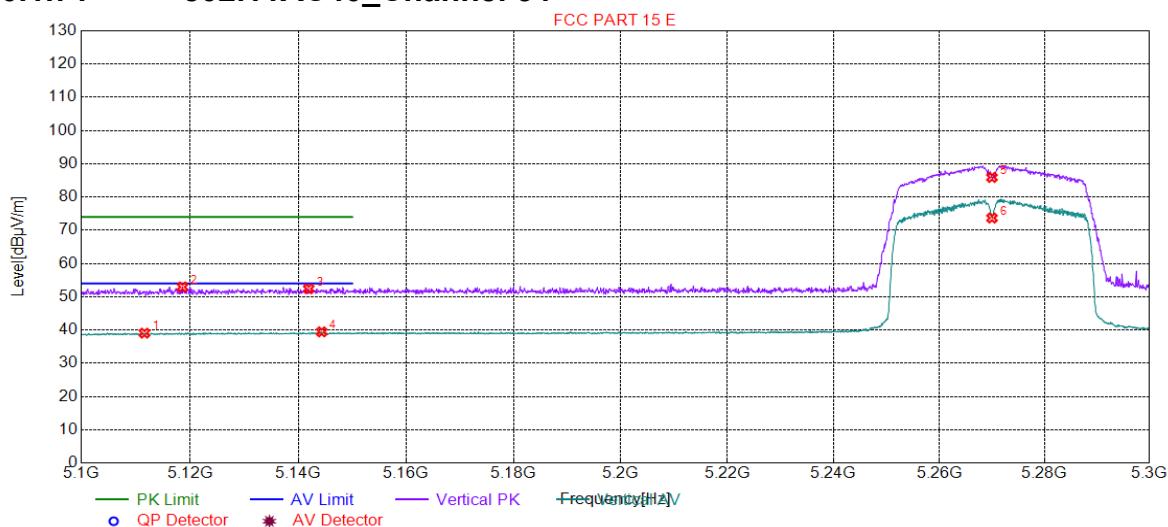
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5110.60	53.32	15.18	74.00	20.68	150	344	Horizontal
2	5118.00	39.19	15.24	54.00	14.81	150	214	Horizontal
3	5139.81	52.89	15.43	74.00	21.11	150	338	Horizontal
4	5144.62	39.35	15.47	54.00	14.65	150	241	Horizontal
5	5270.00	93.13	15.56	0.00	-93.13	150	62	Horizontal
6	5270.00	79.39	15.56	0.00	-79.39	150	76	Horizontal





4.10.1.71 802.11AC40_Channel 54

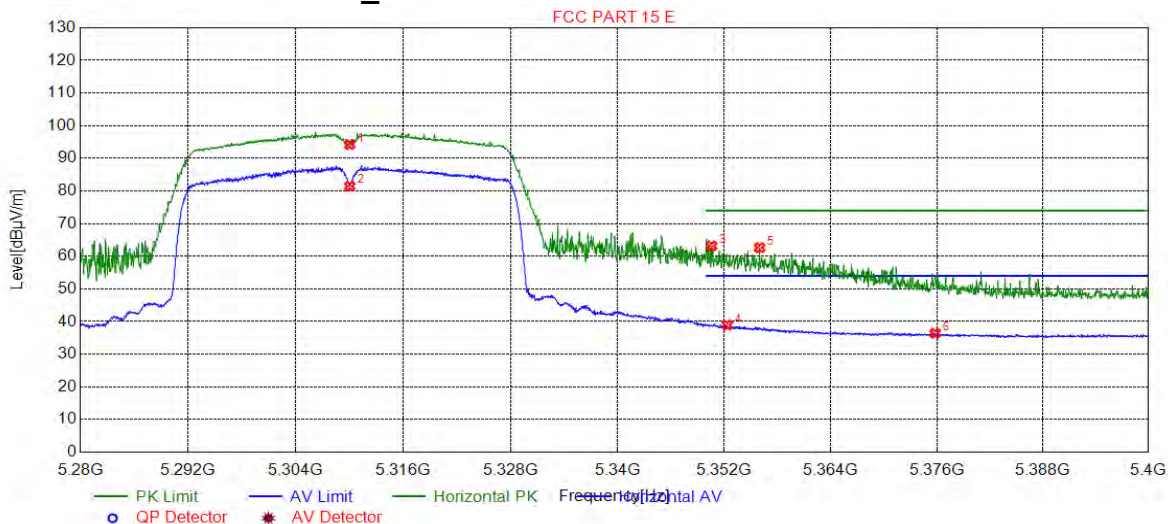


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5111.60	39.08	15.19	54.00	14.92	150	290	Vertical
2	5118.60	52.97	15.25	74.00	21.03	150	117	Vertical
3	5141.92	52.41	15.45	74.00	21.59	150	200	Vertical
4	5144.32	39.47	15.47	54.00	14.53	150	36	Vertical
5	5270.00	85.91	15.56	0.00	-85.91	150	104	Vertical
6	5270.00	73.69	15.56	0.00	-73.69	150	110	Vertical

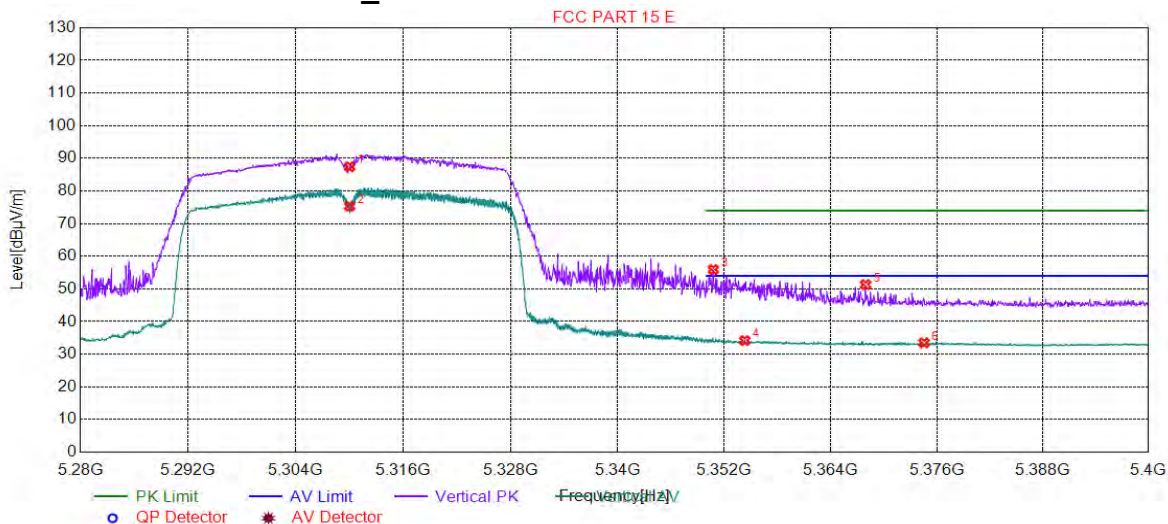


4.10.1.72 802.11AC40_Channel 62



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	94.22	15.75	0.00	-94.22	150	69	Horizontal
2	5310.00	81.49	15.75	0.00	-81.49	150	34	Horizontal
3	5350.59	63.16	15.94	74.00	10.84	150	34	Horizontal
4	5352.33	38.93	15.95	54.00	15.07	150	28	Horizontal
5	5355.99	62.65	15.98	74.00	11.35	150	34	Horizontal
6	5375.80	36.42	16.10	54.00	17.58	150	7	Horizontal

4.10.1.73 802.11AC40_Channel 62



Suspected List

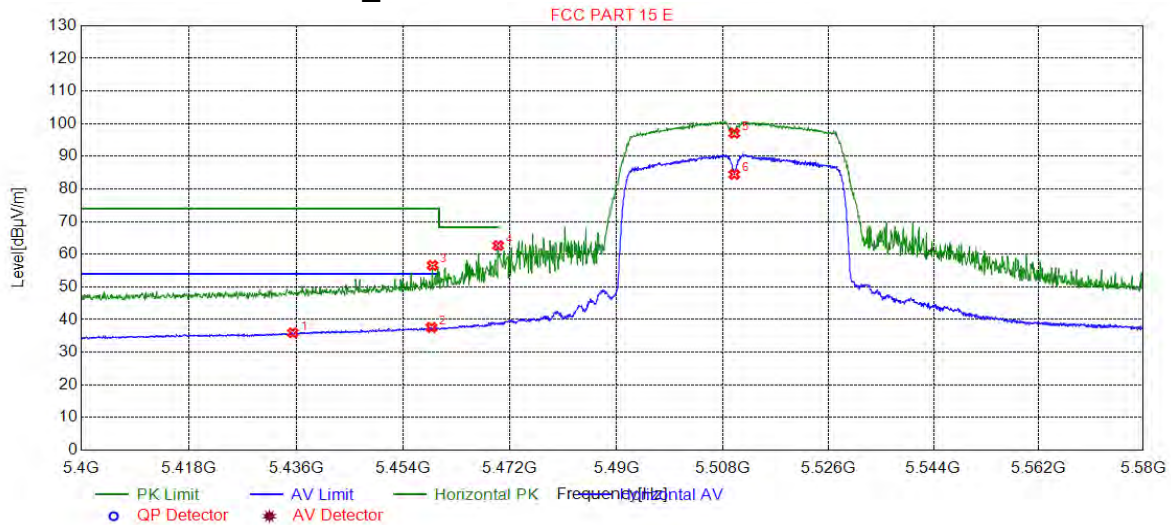
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	87.44	15.75	0.00	-87.44	150	177	Vertical
2	5310.00	75.36	15.75	0.00	-75.36	150	170	Vertical
3	5350.77	55.93	15.94	74.00	18.07	150	177	Vertical
4	5354.31	34.18	15.97	54.00	19.82	150	170	Vertical
5	5367.94	51.32	16.05	74.00	22.68	150	170	Vertical
6	5374.54	33.49	16.09	54.00	20.51	150	170	Vertical



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4.10.1.74 802.11AC40_Channel 102

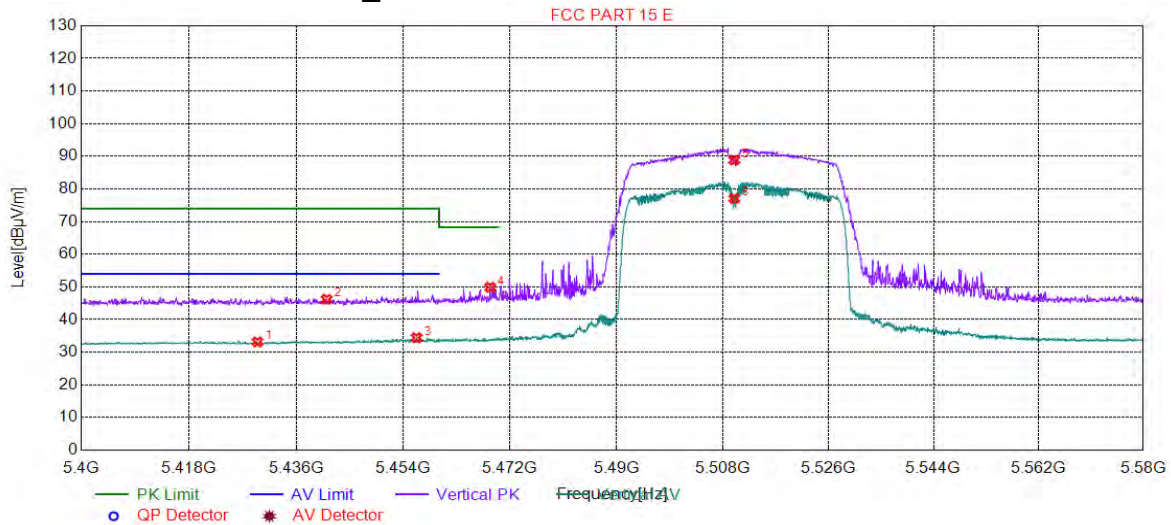


Suspected List

NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5435.38	35.95	16.25	54.00	18.05	150	0	Horizontal
2	5458.70	37.58	16.25	54.00	16.42	150	22	Horizontal
3	5458.88	56.59	16.25	74.00	17.41	150	8	Horizontal
4	5469.96	62.65	16.25	68.30	5.65	150	344	Horizontal
5	5510.00	97.08	16.28	0.00	-97.08	150	15	Horizontal
6	5510.00	84.47	16.28	0.00	-84.47	150	0	Horizontal



4.10.1.75 802.11AC40_Channel 102

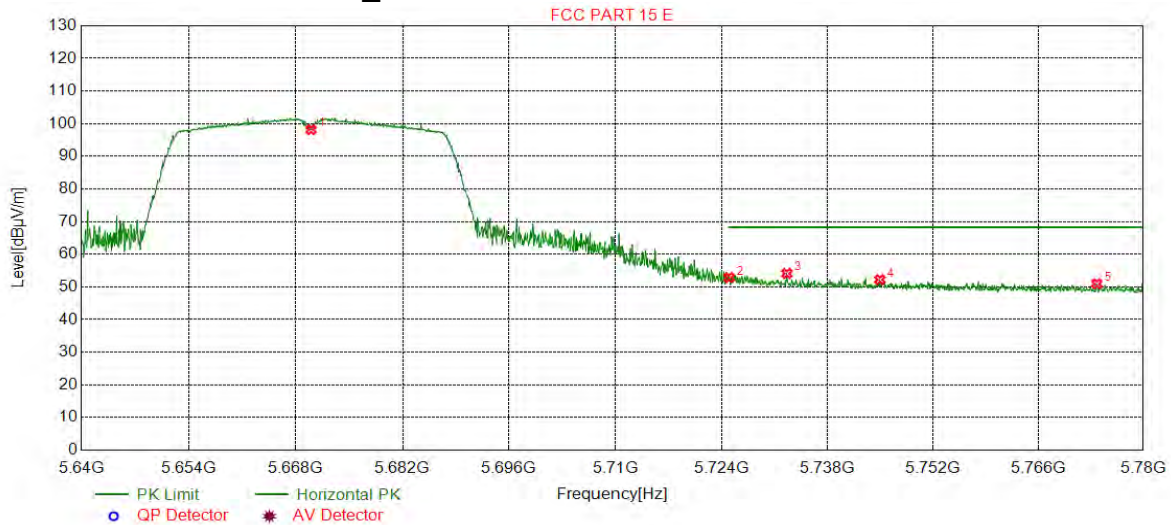


Suspected List

NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5429.44	33.17	16.25	54.00	20.83	150	172	Vertical
2	5441.06	46.22	16.25	74.00	27.78	150	110	Vertical
3	5456.18	34.45	16.25	54.00	19.55	150	172	Vertical
4	5468.61	49.89	16.25	68.30	18.41	150	241	Vertical
5	5510.00	88.85	16.28	0.00	-88.85	150	179	Vertical
6	5510.00	77.05	16.28	0.00	-77.05	150	172	Vertical



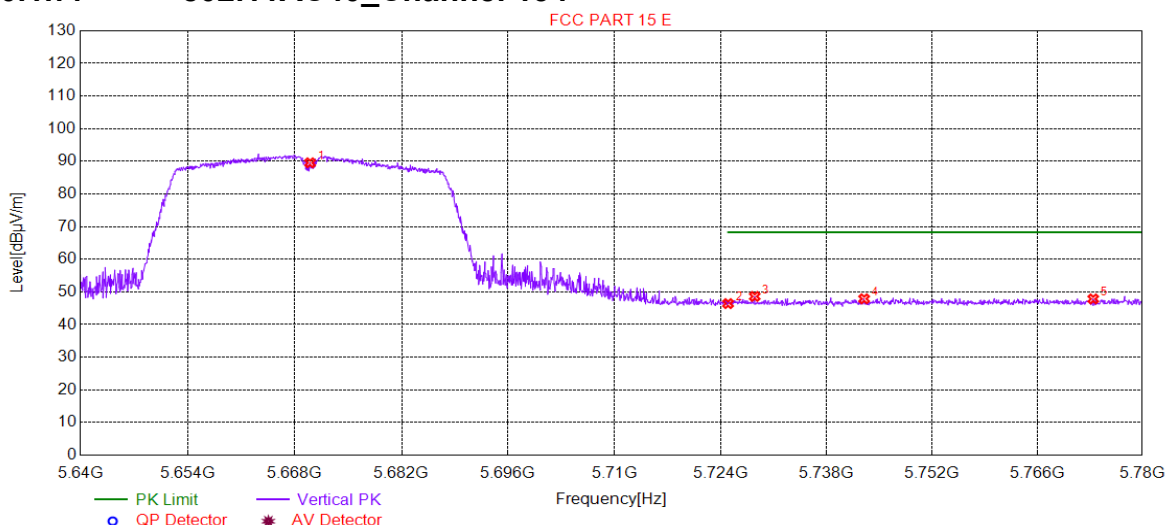
4.10.1.76 802.11AC40_Channel 134



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	98.16	16.64	0.00	-98.16	150	0	Horizontal
2	5725.00	52.87	16.96	68.30	15.43	150	344	Horizontal
3	5732.65	54.14	17.01	68.30	14.16	150	10	Horizontal
4	5744.98	52.25	17.09	68.30	16.05	150	0	Horizontal
5	5773.83	51.00	17.15	68.30	17.30	150	28	Horizontal

4.10.1.77 802.11AC40_Channel 134

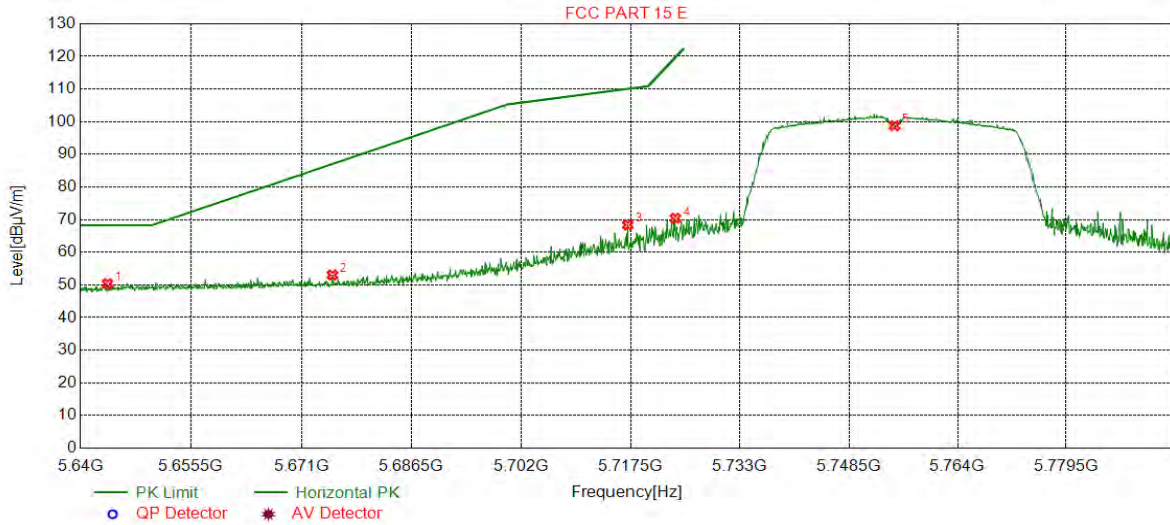


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	89.56	16.64	0.00	-89.56	150	172	Vertical
2	5725.00	46.43	16.96	68.30	21.87	150	172	Vertical
3	5728.52	48.63	16.98	68.30	19.67	150	52	Vertical
4	5743.02	47.90	17.08	68.30	20.40	150	149	Vertical
5	5773.48	47.87	17.15	68.30	20.43	150	168	Vertical



4.10.1.78 802.11AC40_Channel 151

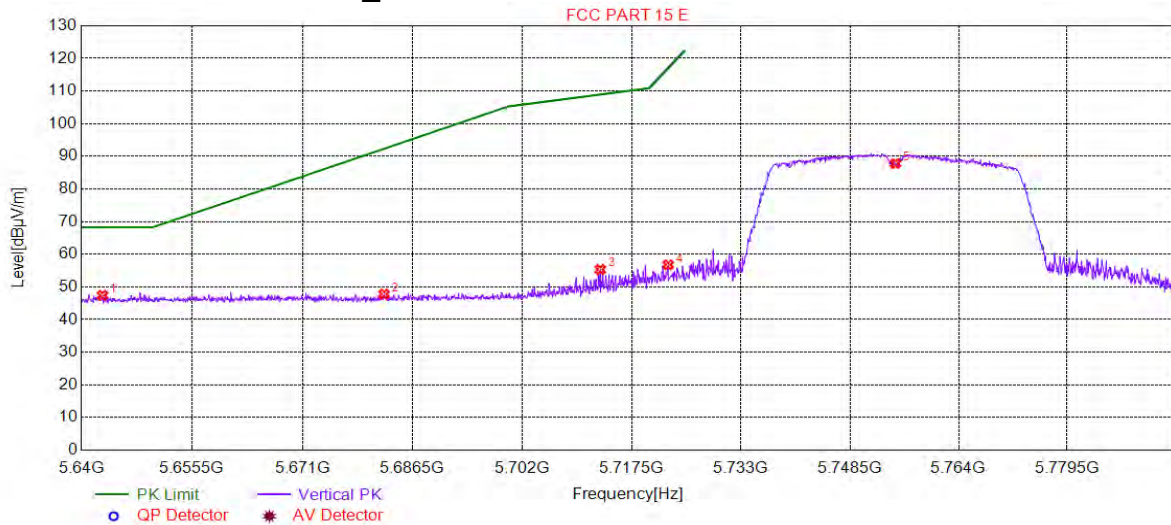


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.79	50.42	16.54	68.30	17.88	150	23	Horizontal
2	5675.35	53.04	16.67	87.06	34.02	150	18	Horizontal
3	5717.07	68.40	16.91	110.08	41.68	150	344	Horizontal
4	5723.81	70.44	16.95	119.61	49.17	150	41	Horizontal
5	5755.00	98.78	17.13	0.00	-98.78	150	5	Horizontal



4.10.1.79 802.11AC40_Channel 151

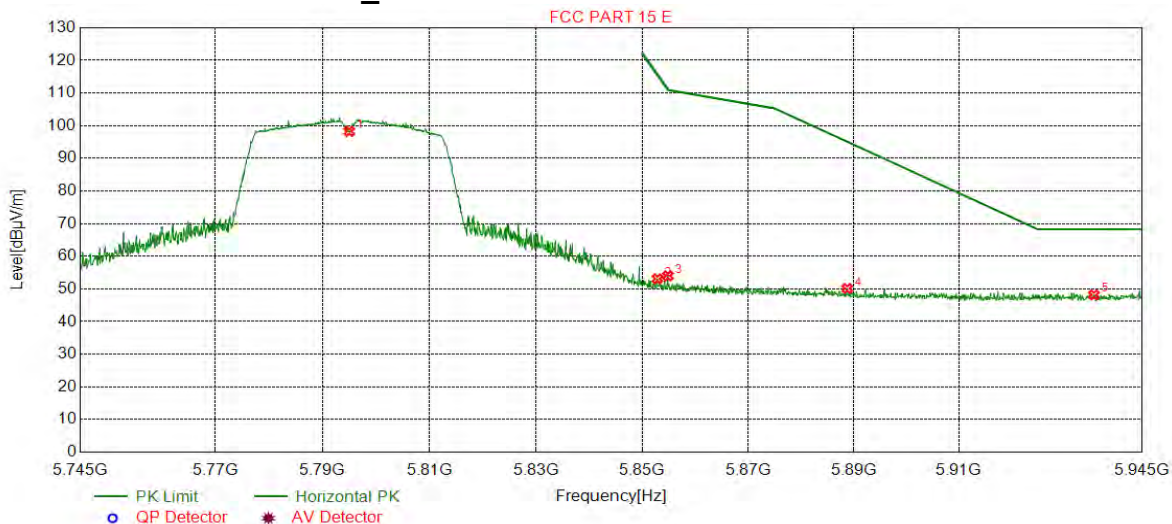


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5642.94	47.45	16.54	68.30	20.85	150	167	Vertical
2	5682.49	47.79	16.71	92.34	44.55	150	181	Vertical
3	5713.04	55.34	16.88	108.95	53.61	150	171	Vertical
4	5722.65	56.77	16.95	116.96	60.19	150	121	Vertical
5	5755.00	87.80	17.13	0.00	-87.80	150	116	Vertical

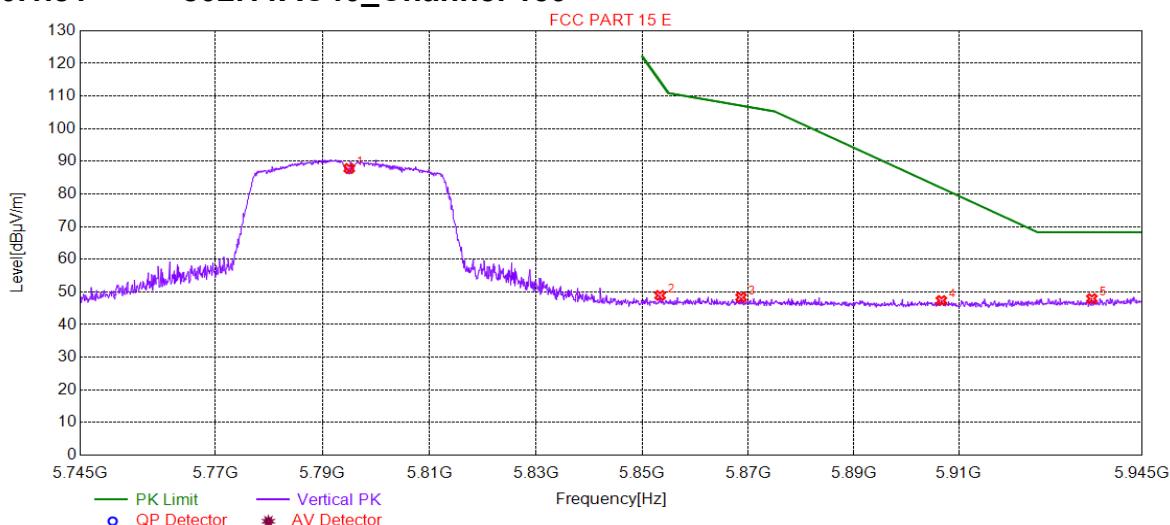


4.10.1.80 802.11AC40_Channel 159



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	98.27	17.18	0.00	-98.27	150	41	Horizontal
2	5852.85	53.13	17.25	115.79	62.66	150	344	Horizontal
3	5854.85	54.01	17.25	111.23	57.22	150	1	Horizontal
4	5888.77	50.15	17.14	95.11	44.96	150	344	Horizontal
5	5935.79	48.18	17.66	68.30	20.12	150	4	Horizontal

4.10.1.81 802.11AC40_Channel 159

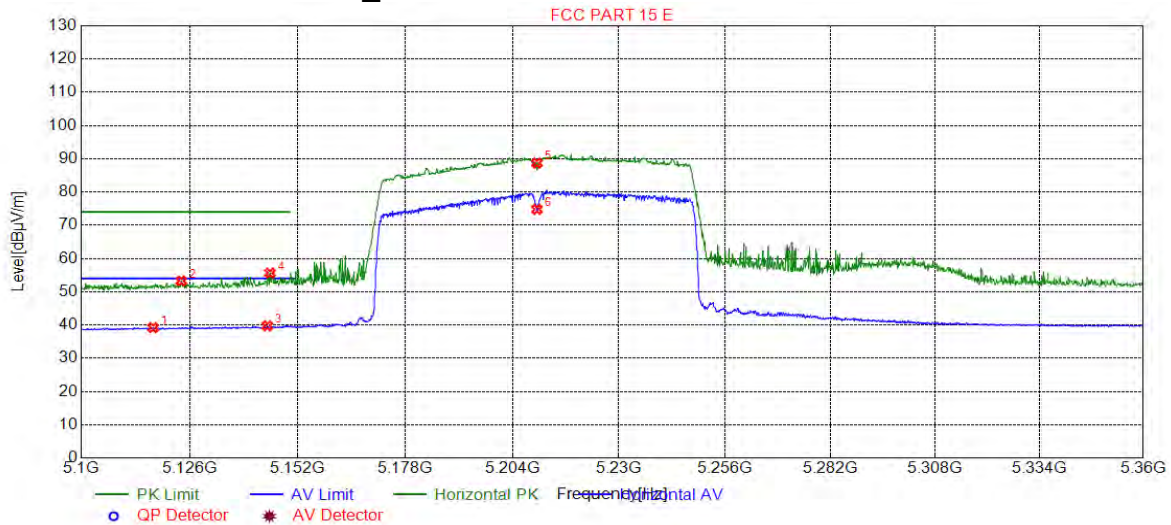


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	87.82	17.18	0.00	-87.82	150	97	Vertical
2	5853.35	48.93	17.25	114.65	65.72	150	20	Vertical
3	5868.66	48.37	17.20	107.07	58.70	150	106	Vertical
4	5906.68	47.38	17.21	81.86	34.48	150	254	Vertical
5	5935.39	47.96	17.66	68.30	20.34	150	106	Vertical



4.10.1.82 802.11AC80_Channel 42

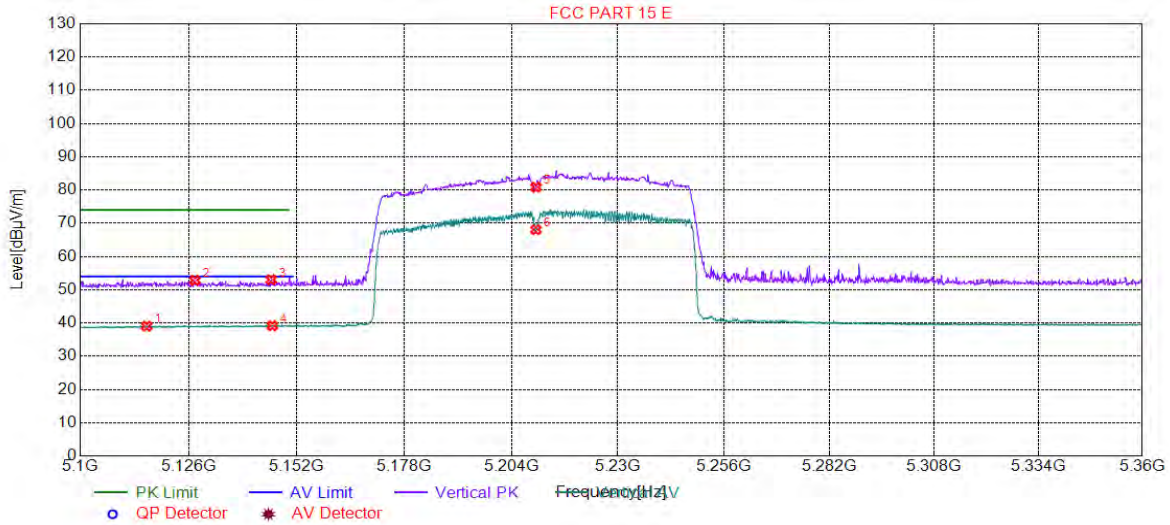


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.16	39.23	15.24	54.00	14.77	150	63	Horizontal
2	5123.93	53.28	15.30	74.00	20.72	150	91	Horizontal
3	5144.61	39.76	15.47	54.00	14.24	150	344	Horizontal
4	5145.26	55.65	15.48	74.00	18.35	150	84	Horizontal
5	5210.00	88.72	15.56	0.00	-88.72	150	15	Horizontal
6	5210.00	74.81	15.56	0.00	-74.81	150	77	Horizontal



4.10.1.83 802.11AC80_Channel 42

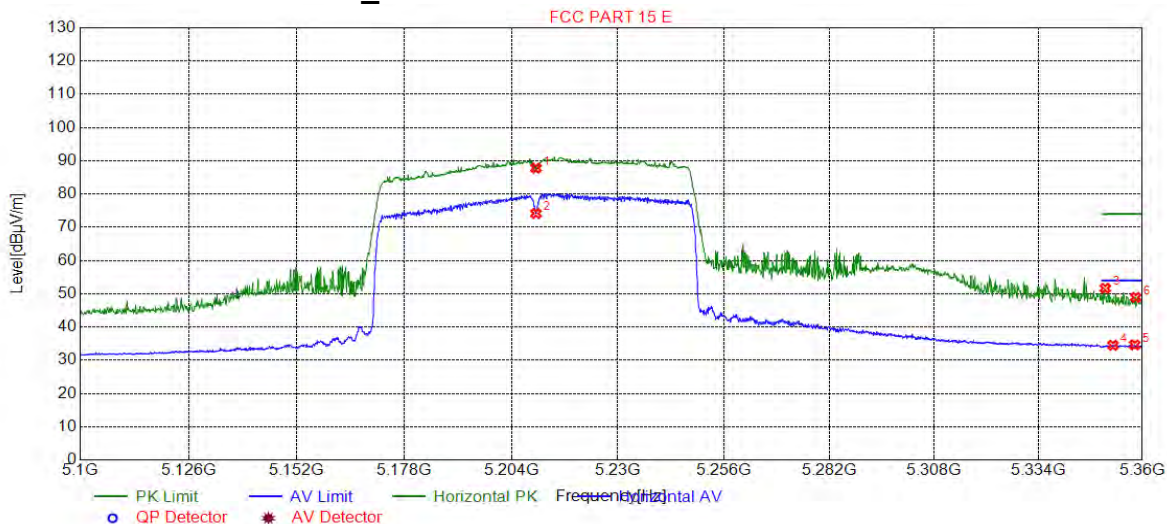


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5115.86	39.09	15.23	54.00	14.91	150	55	Vertical
2	5127.44	52.85	15.33	74.00	21.15	150	332	Vertical
3	5145.78	53.05	15.48	74.00	20.95	150	332	Vertical
4	5146.04	39.21	15.49	54.00	14.79	150	214	Vertical
5	5210.00	80.82	15.56	0.00	-80.82	150	111	Vertical
6	5210.00	68.06	15.56	0.00	-68.06	150	104	Vertical



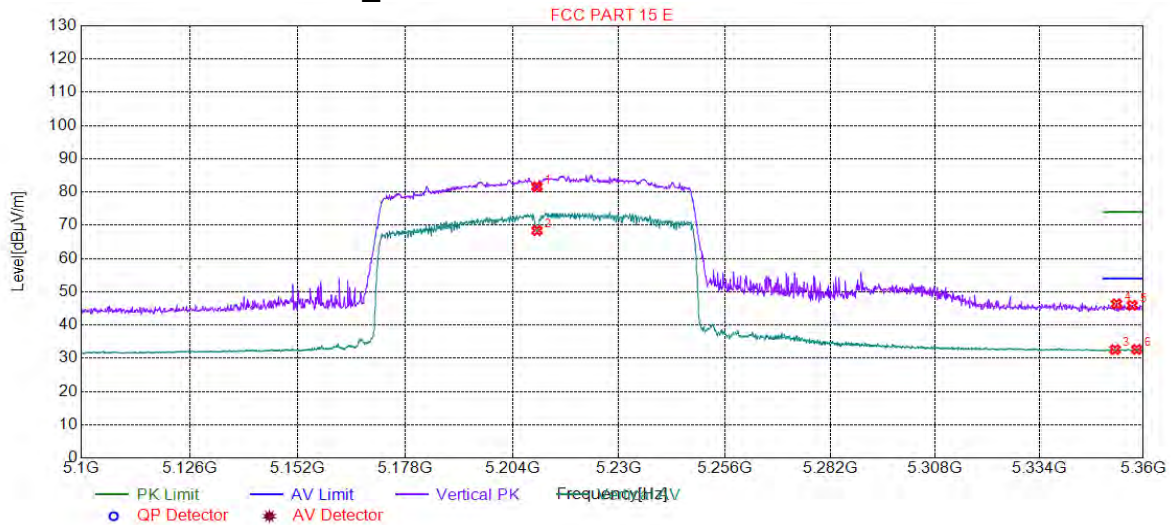
4.10.1.84 802.11AC80_Channel 42



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	87.79	15.56	0.00	-87.79	150	68	Horizontal
2	5210.00	74.16	15.56	0.00	-74.16	150	12	Horizontal
3	5350.76	51.68	15.94	74.00	22.32	150	25	Horizontal
4	5352.71	34.52	15.96	54.00	19.48	150	296	Horizontal
5	5358.17	34.63	15.99	54.00	19.37	150	303	Horizontal
6	5358.43	48.95	15.99	74.00	25.05	150	68	Horizontal



4.10.1.85 802.11AC80_Channel 42

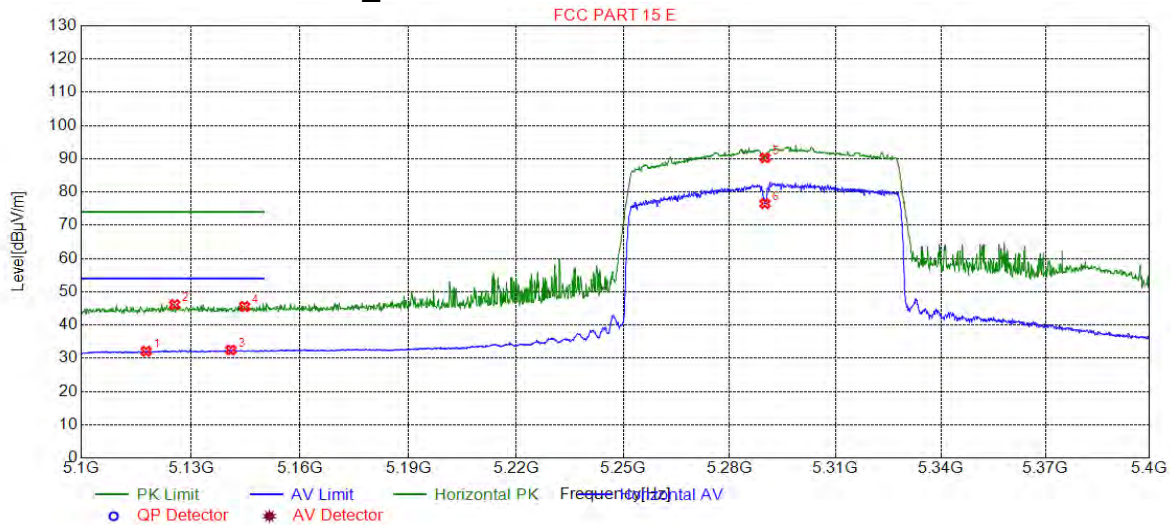


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	81.62	15.56	0.00	-81.62	150	178	Vertical
2	5210.00	68.42	15.56	0.00	-68.42	150	103	Vertical
3	5352.97	32.64	15.96	54.00	21.36	150	103	Vertical
4	5353.36	46.39	15.96	74.00	27.61	150	88	Vertical
5	5357.26	45.94	15.99	74.00	28.06	150	82	Vertical
6	5358.43	32.68	15.99	54.00	21.32	150	164	Vertical



4.10.1.86 802.11AC80_Channel 58

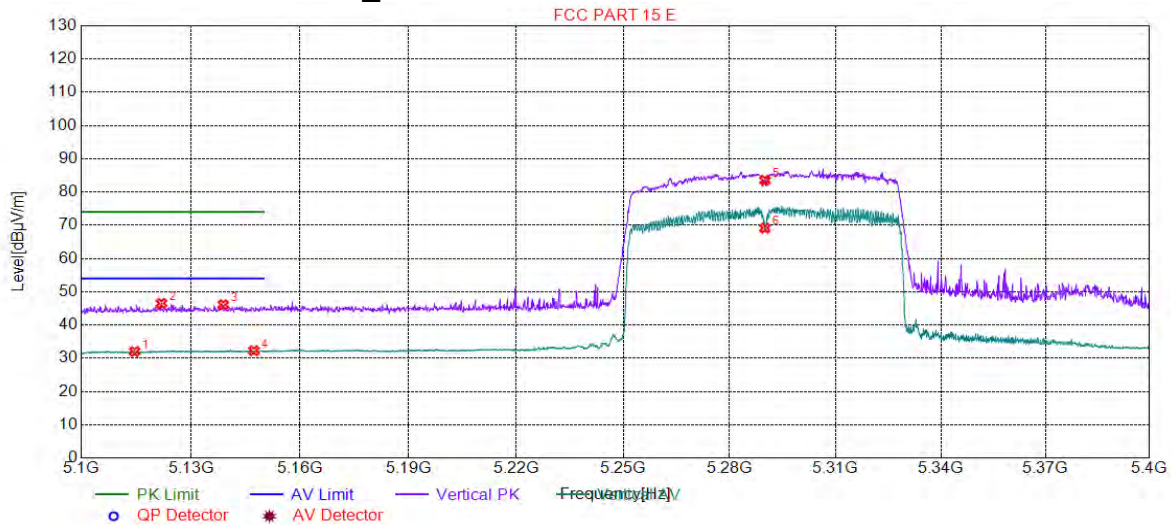


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5117.70	32.11	15.24	54.00	21.89	150	90	Horizontal
2	5125.51	46.14	15.31	74.00	27.86	150	174	Horizontal
3	5140.97	32.50	15.44	54.00	21.50	150	97	Horizontal
4	5144.72	45.58	15.47	74.00	28.42	150	2	Horizontal
5	5290.00	90.30	15.65	0.00	-90.30	150	70	Horizontal
6	5290.00	76.54	15.65	0.00	-76.54	150	77	Horizontal



4.10.1.87 802.11AC80_Channel 58

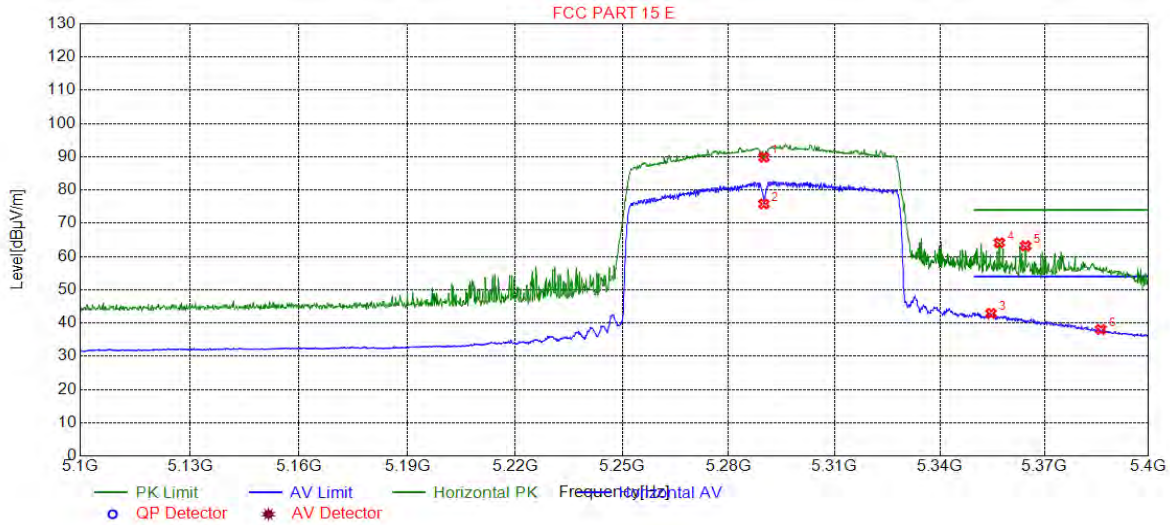


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.55	32.04	15.22	54.00	21.96	150	323	Vertical
2	5121.91	46.54	15.28	74.00	27.46	150	357	Vertical
3	5138.86	46.14	15.42	74.00	27.86	150	64	Vertical
4	5147.27	32.26	15.50	54.00	21.74	150	268	Vertical
5	5290.00	83.55	15.65	0.00	-83.55	150	248	Vertical
6	5290.00	69.15	15.65	0.00	-69.15	150	112	Vertical



4.10.1.88 802.11AC80_Channel 58

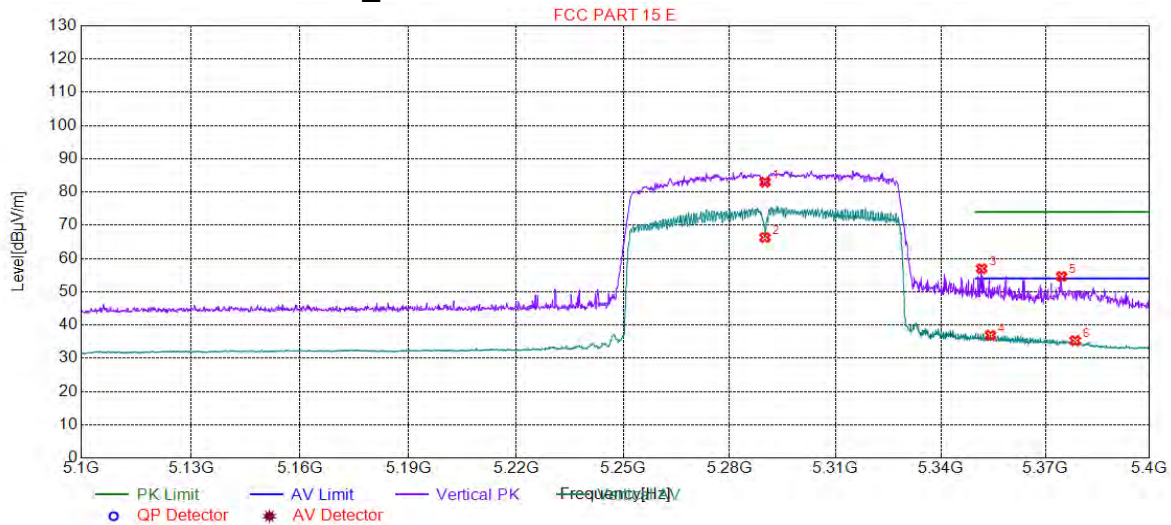


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	89.86	15.65	0.00	-89.86	150	9	Horizontal
2	5290.00	75.83	15.65	0.00	-75.83	150	79	Horizontal
3	5354.67	42.92	15.97	54.00	11.08	150	23	Horizontal
4	5357.07	64.15	15.98	74.00	9.85	150	9	Horizontal
5	5364.58	63.19	16.03	74.00	10.81	150	23	Horizontal
6	5386.19	38.07	16.16	54.00	15.93	150	23	Horizontal



4.10.1.89 802.11AC80_Channel 58

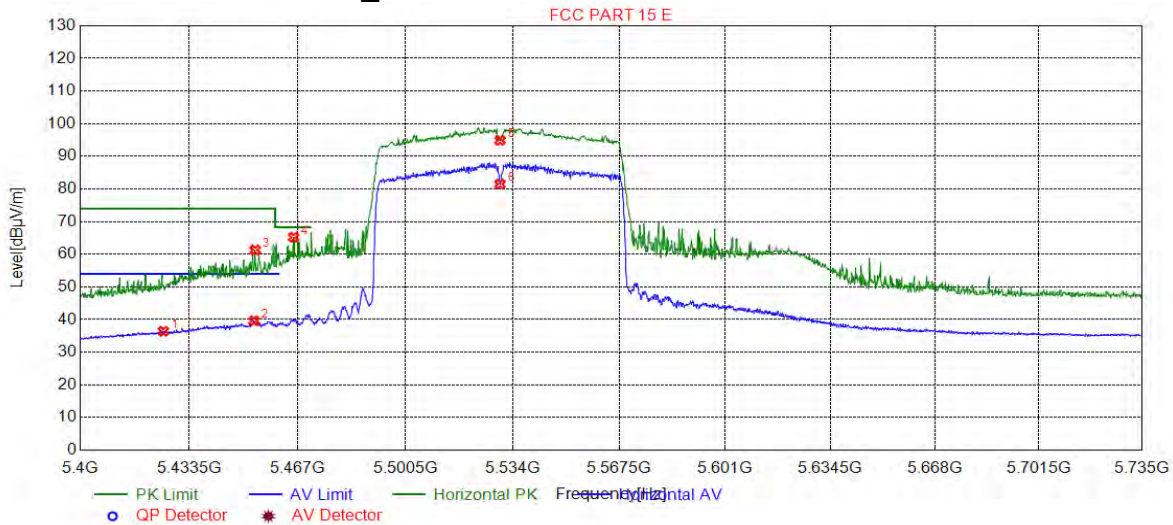


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	83.00	15.65	0.00	-83.00	150	227	Vertical
2	5290.00	66.33	15.65	0.00	-66.33	150	247	Vertical
3	5351.67	56.95	15.95	74.00	17.05	150	166	Vertical
4	5354.22	36.93	15.97	54.00	17.07	150	173	Vertical
5	5374.63	54.66	16.09	74.00	19.34	150	110	Vertical
6	5378.53	35.31	16.12	54.00	18.69	150	173	Vertical



4.10.1.90 802.11AC80_Channel 106

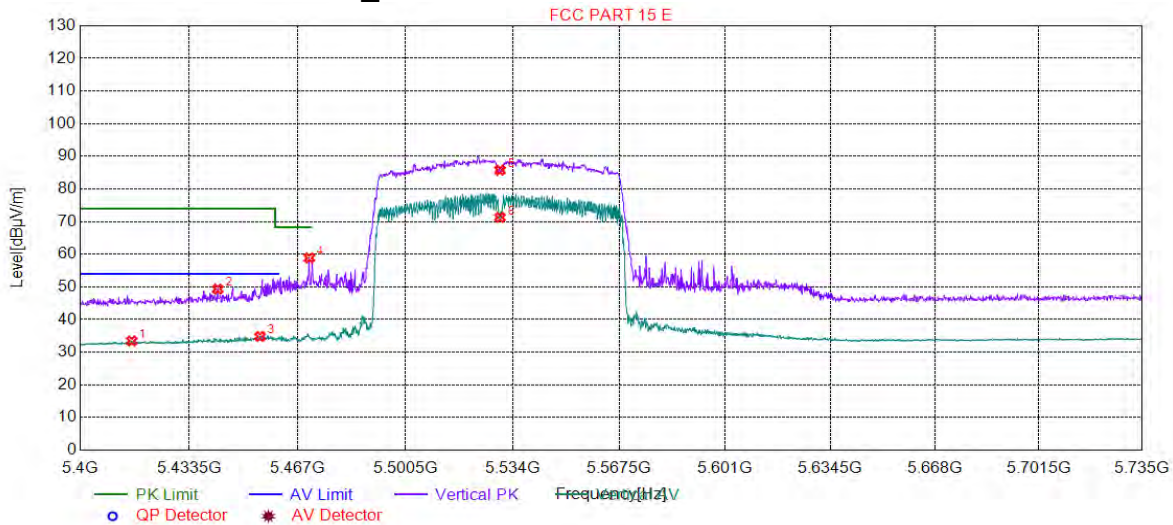


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5425.47	36.44	16.25	54.00	17.56	150	23	Horizontal
2	5453.45	39.63	16.25	54.00	14.37	150	23	Horizontal
3	5453.79	61.31	16.25	74.00	12.69	150	3	Horizontal
4	5465.69	65.23	16.25	68.30	3.07	150	3	Horizontal
5	5530.00	94.88	16.35	0.00	-94.88	150	9	Horizontal
6	5530.00	81.50	16.35	0.00	-81.50	150	51	Horizontal



4.10.1.91 802.11AC80_Channel 106

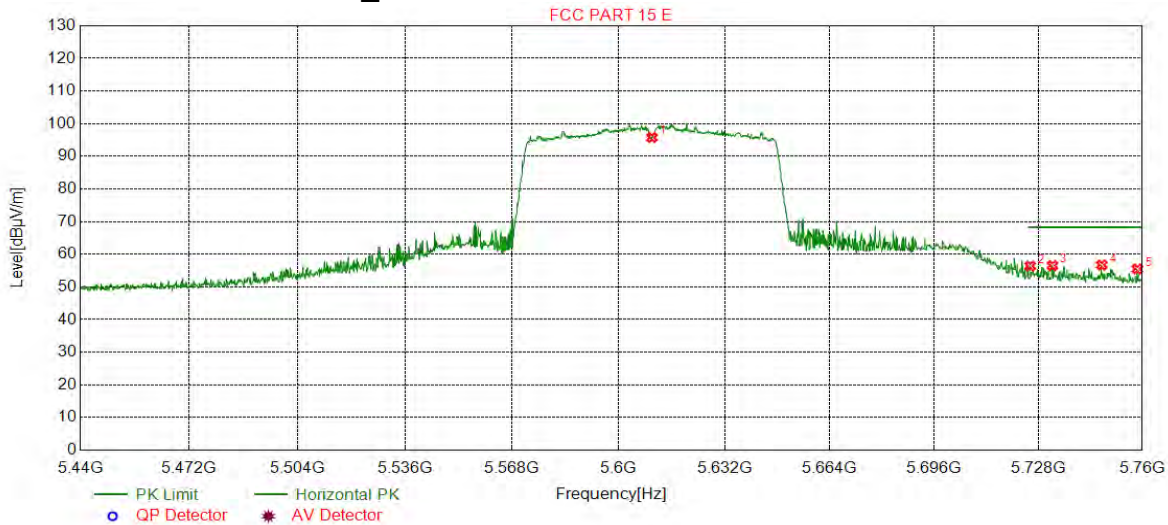


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5415.75	33.47	16.25	54.00	20.53	150	170	Vertical
2	5442.23	49.36	16.25	74.00	24.64	150	177	Vertical
3	5455.30	34.83	16.25	54.00	19.17	150	170	Vertical
4	5470.55	58.90	16.25	68.30	9.40	150	177	Vertical
5	5530.00	85.77	16.35	0.00	-85.77	150	223	Vertical
6	5530.00	71.29	16.35	0.00	-71.29	150	110	Vertical



4.10.1.92 802.11AC80_Channel 122



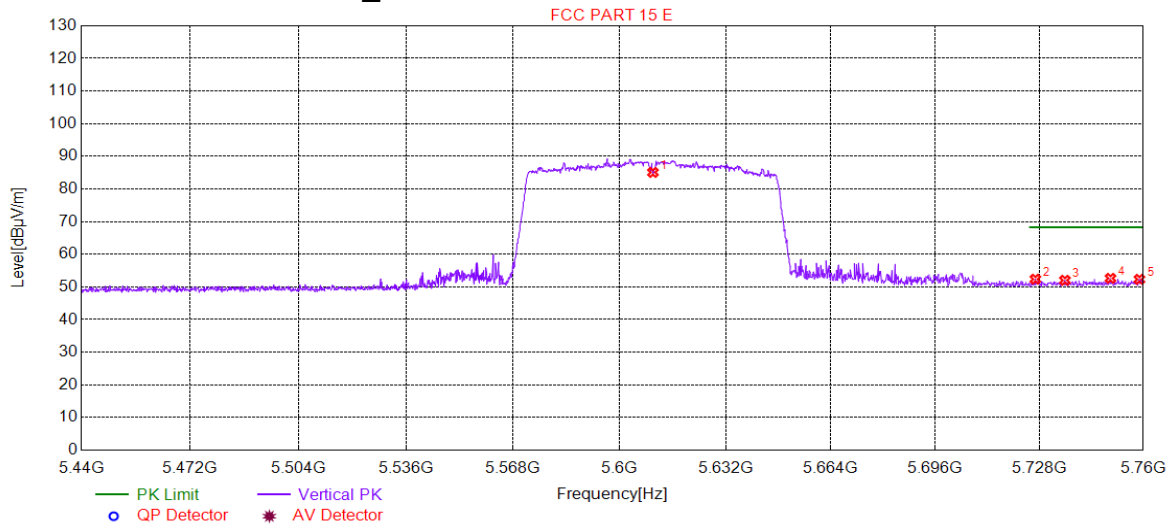
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	95.79	16.58	0.00	-95.79	150	31	Horizontal
2	5725.42	56.44	16.96	68.30	11.86	150	21	Horizontal
3	5732.30	56.56	17.01	68.30	11.74	150	345	Horizontal
4	5747.51	56.70	17.10	68.30	11.60	150	8	Horizontal
5	5758.55	55.49	17.13	68.30	12.81	150	1	Horizontal





4.10.1.93 802.11AC80_Channel 122

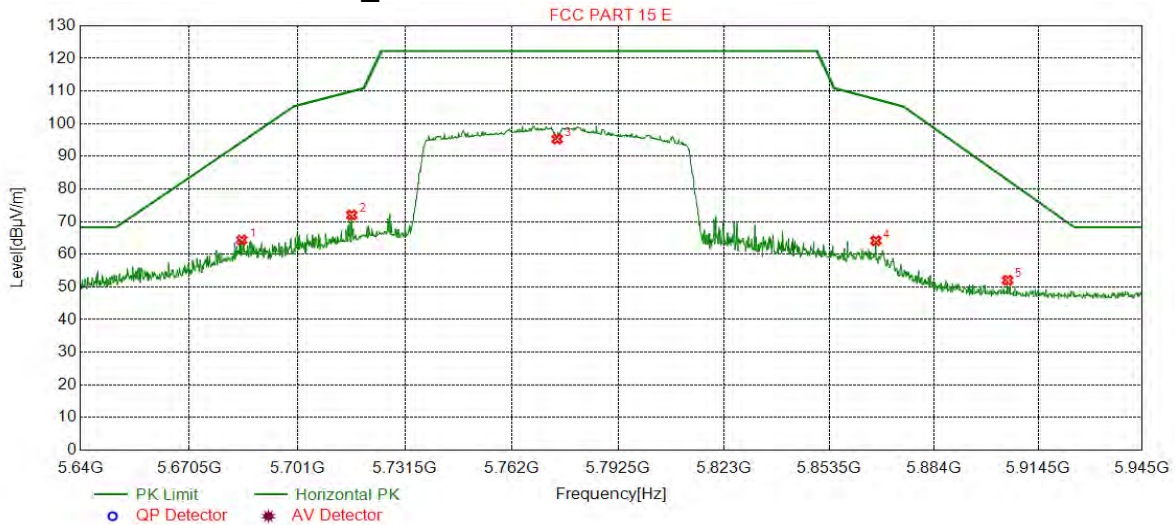


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	85.09	16.58	0.00	-85.09	150	103	Vertical
2	5726.70	52.39	16.97	68.30	15.91	150	29	Vertical
3	5735.82	52.04	17.03	68.30	16.26	150	278	Vertical
4	5749.91	52.65	17.12	68.30	15.65	150	264	Vertical
5	5758.87	52.34	17.13	68.30	15.96	150	52	Vertical



4.10.1.94 802.11AC80_Channel 155

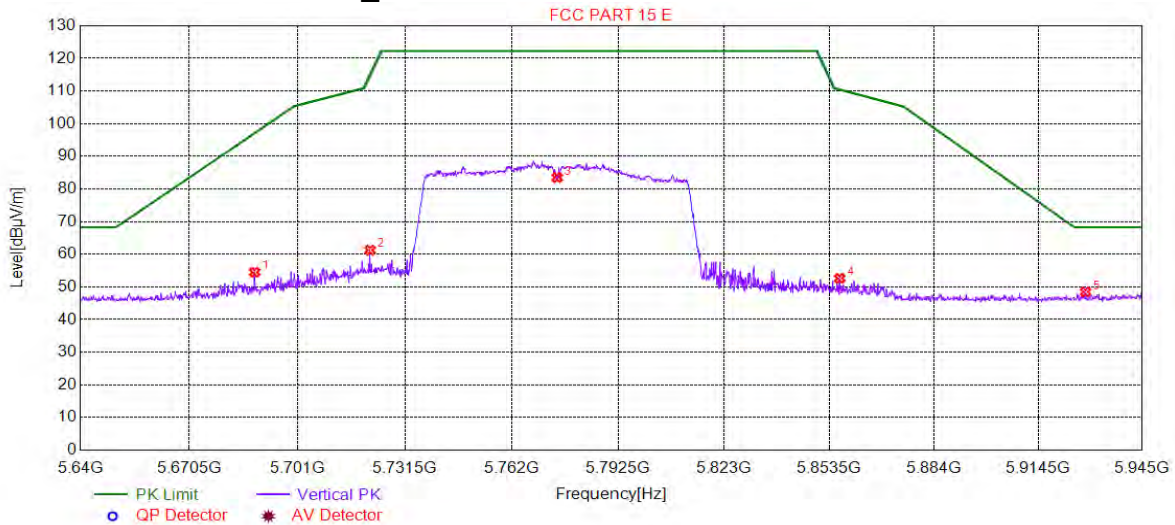


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5685.31	64.39	16.72	94.43	30.04	150	345	Horizontal
2	5716.44	72.01	16.91	109.90	37.89	150	345	Horizontal
3	5775.00	95.30	17.16	122.30	27.00	150	22	Horizontal
4	5867.03	64.17	17.21	107.53	43.36	150	345	Horizontal
5	5905.48	52.06	17.19	82.74	30.68	150	345	Horizontal



4.10.1.95 802.11AC80_Channel 155



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5688.97	54.53	16.74	97.14	42.61	150	171	Vertical
2	5721.62	61.27	16.94	114.61	53.34	150	176	Vertical
3	5775.00	83.51	17.16	122.30	38.79	150	176	Vertical
4	5856.50	52.64	17.24	110.48	57.84	150	112	Vertical
5	5928.36	48.45	17.55	68.30	19.85	150	291	Vertical

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)	5180.008392	5825.005612
V max(V)	5180.017739	5825.015226
V min(V)	5180.018883	5825.015253
Max. Deviation Frequency	0.018883	0.015253
Max. Frequency Error (ppm)	3.645386	2.618470

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.009980	5825.009073
5	5180.016472	5825.011567
15	5180.019915	5825.015586
25	5180.023017	5825.016948
35	5180.031909	5825.018781
45	5180.035388	5825.028559
50	5180.037945	5825.036856
Max. Deviation Frequency	0.037945	0.036856
Max. Frequency Error (ppm)	7.325315	6.327210





4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

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

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

Table 2: Applicability of DFS requirements during normal operation

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



4.12.2 DFS Detection Thresholds

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

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. 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
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



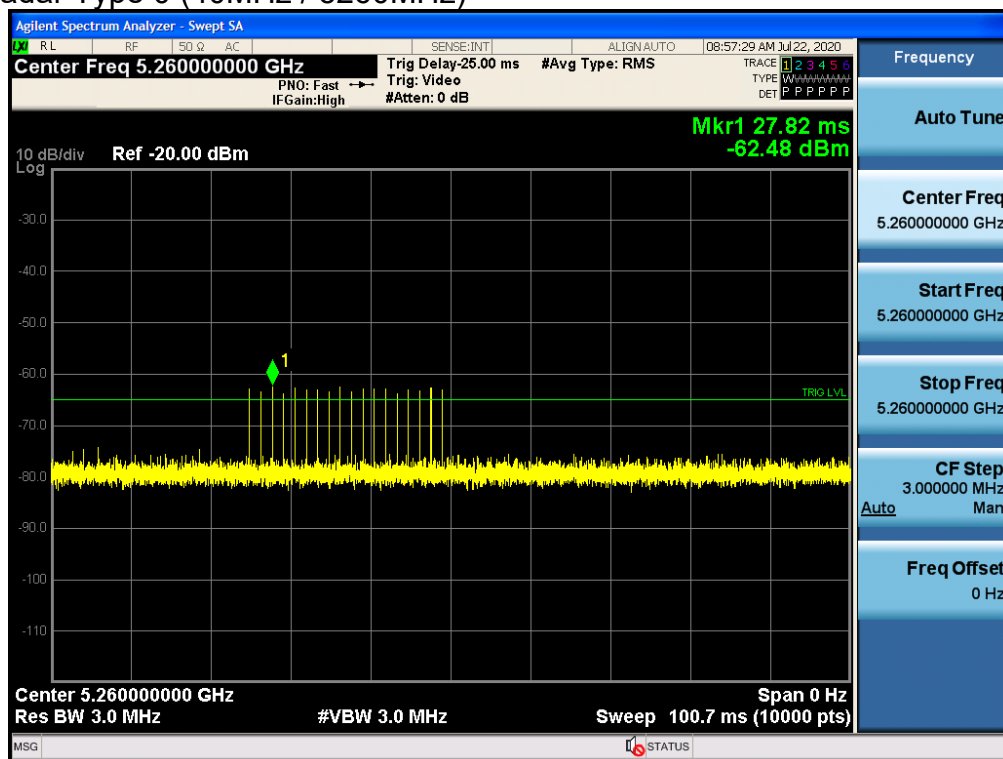


4.12.4 Test plots

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

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (40MHz / 5260MHz)

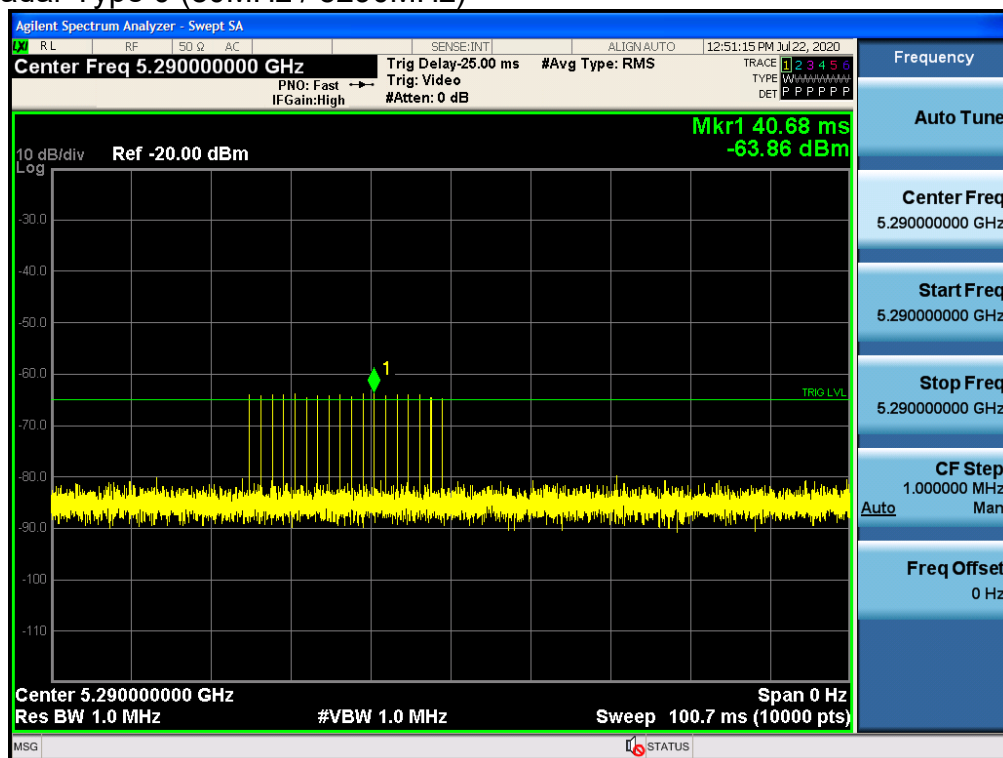


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Radar Type 0 (80MHz / 5290MHz)



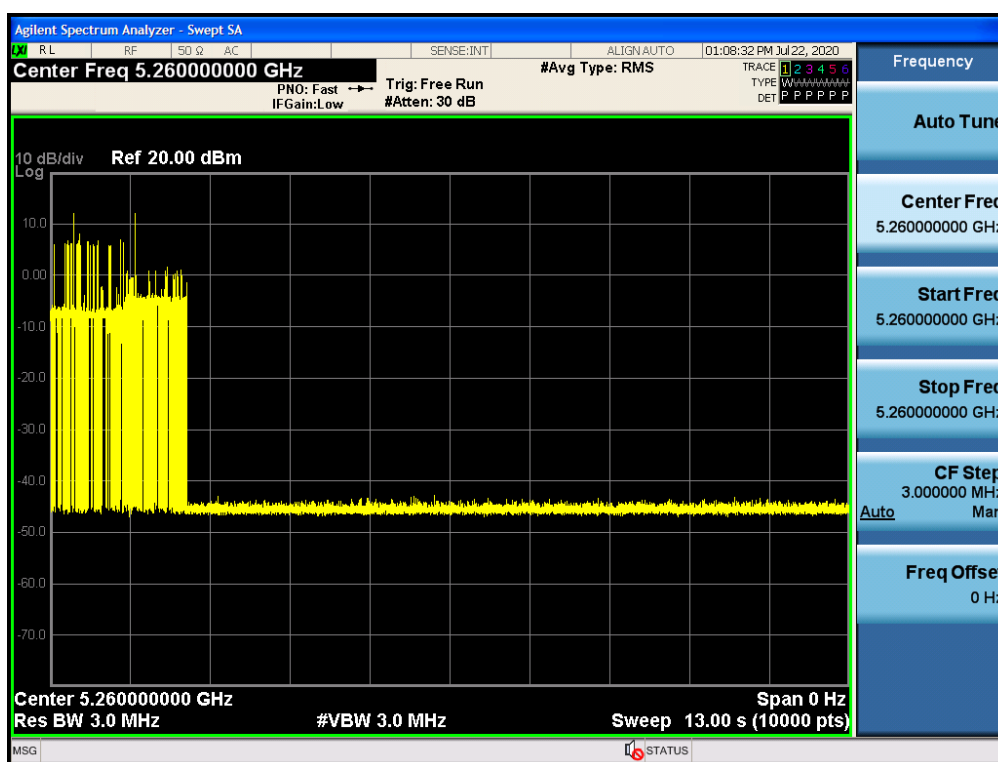


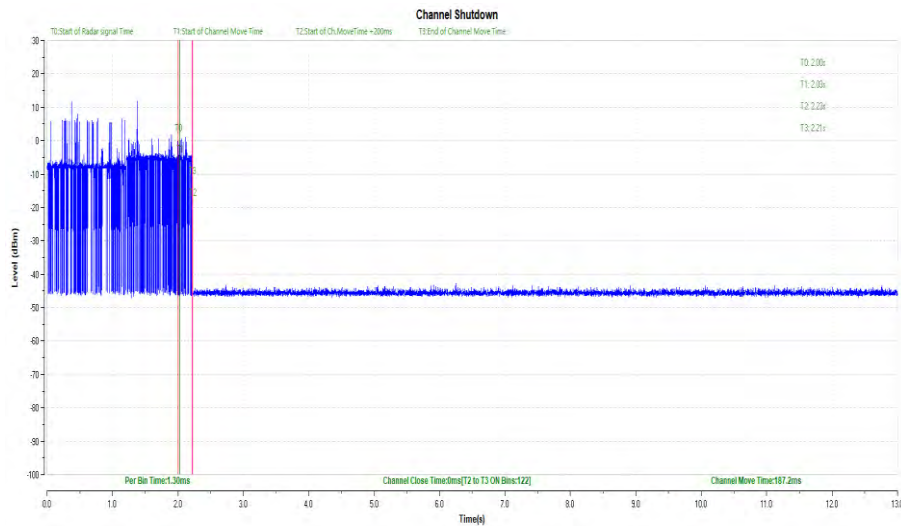
4.12.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
40MHz / 5260MHz	Channel Move Time	0.195s	<10s	Pass
	Channel Closing Transmission Time	0ms	<60ms	Pass
80MHz / 5290MHz	Channel Move Time	0.161s	<10s	Pass
	Channel Closing Transmission Time	0ms	<60ms	Pass

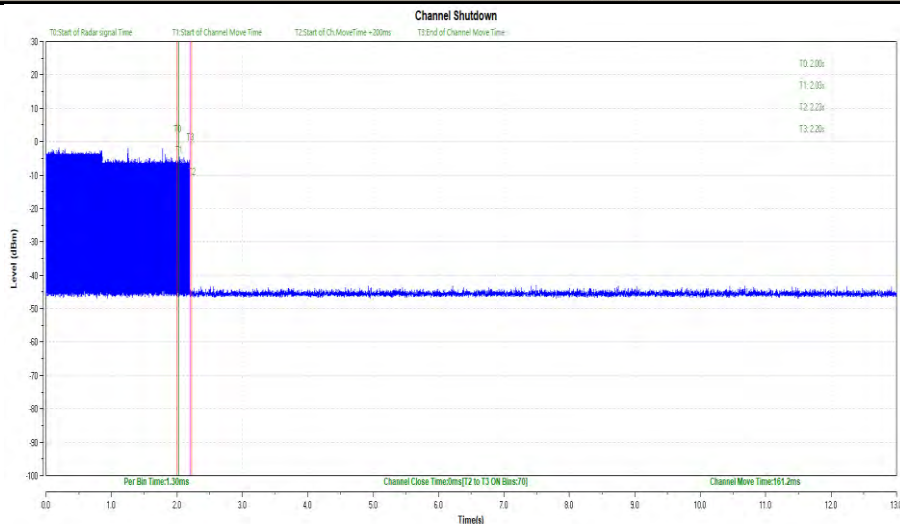
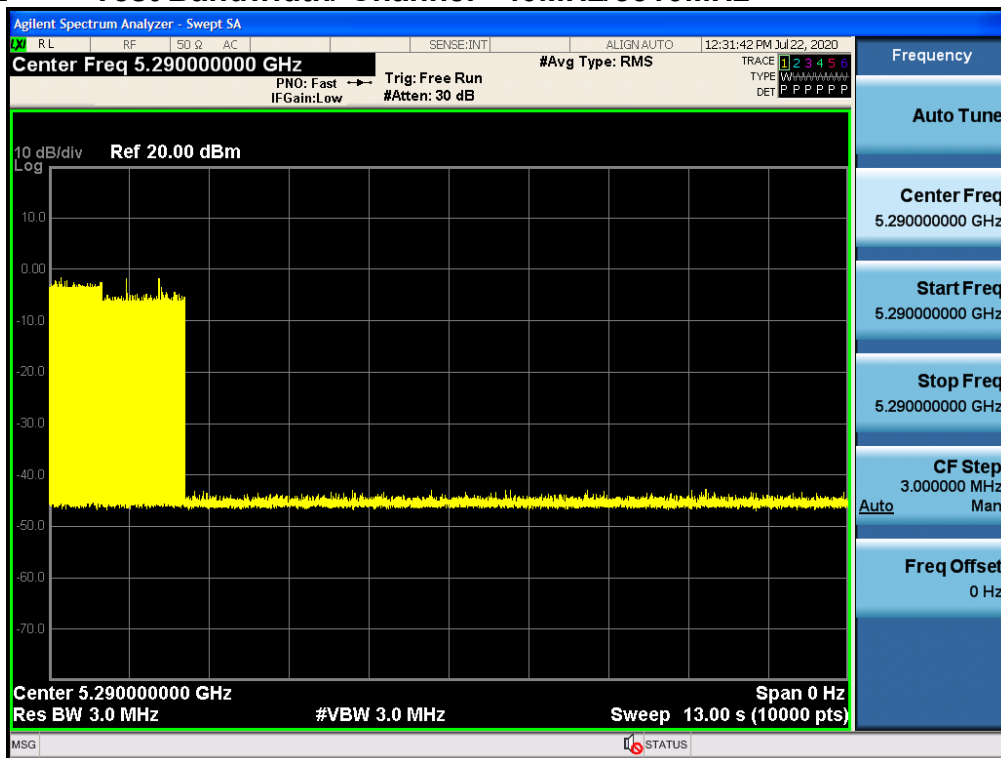
4.12.5.1 Test plots

4.12.5.1.1 Test Bandwidth/Channel= 40MHz / 5260MHz



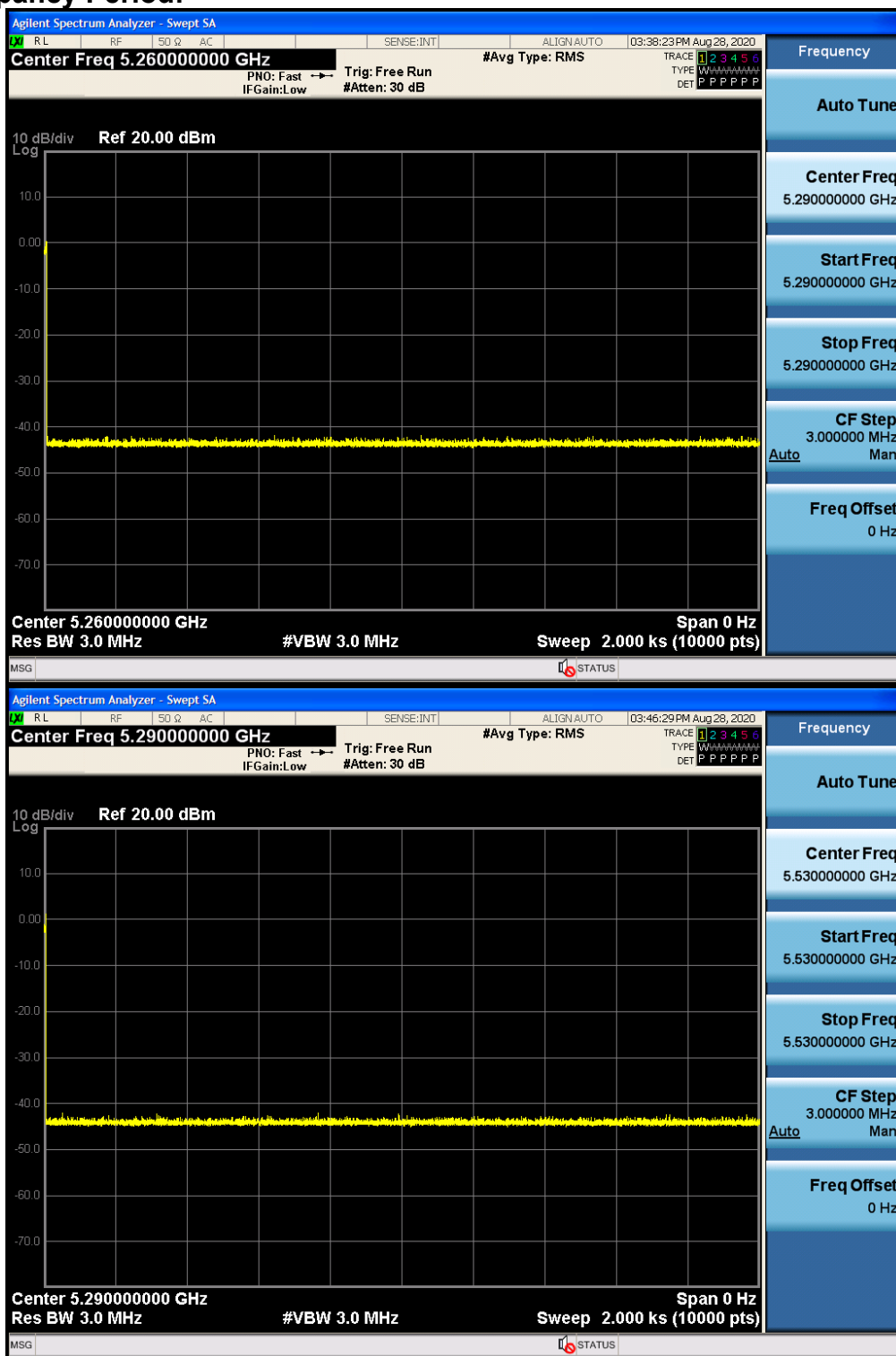


4.12.5.1.2 Test Bandwidth/ Channel =40MHz/5510MHz





No-occupancy Period:



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-25GHz)
5	Conduct emission test	$\pm 3.12\text{ dB}$ (9KHz- 30MHz)
6	Temperature test	$\pm 1^{\circ}\text{C}$
7	Humidity test	$\pm 3\%$
8	DC and low frequency voltages	$\pm 0.5\%$





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	2023/7/13
				2017/7/15	2020/7/14
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	2020/7/15	2021/7/14
				2019/7/16	2020/7/15
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	2020/7/15	2021/7/14
				2019/7/16	2020/7/15
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/15	2021/7/14
				2019/7/16	2020/7/15
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	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/15	2021/7/14
				2019/7/16	2020/7/15
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2020/7/15	2021/7/14
				2019/7/16	2020/7/15
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/7/15	2021/7/14
				2019/7/16	2020/7/15
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





7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/70004.

The End

