

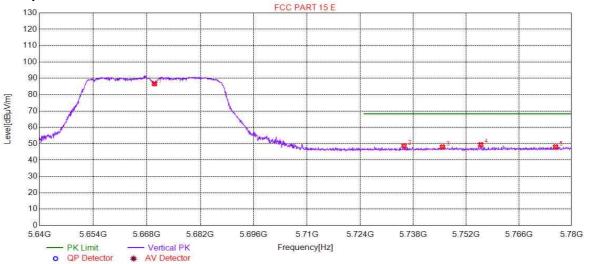
Report No.: ZR/2020/6002805

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#### 4.10.1.76 802.11AC40\_CH134

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	5670.00	86.70	16.64	0.00	-86.70	150	295	Vertical			
2	5735.59	48.71	17.03	68.30	19.59	150	35	Vertical			
3	5745.75	48.02	17.09	68.30	20.28	150	8	Vertical			
4	5755.90	49.38	17.13	68.30	18.92	150	344	Vertical			
5	5775.79	48.09	17.16	68.30	20.21	150	181	Vertical			

## **Final Data List**



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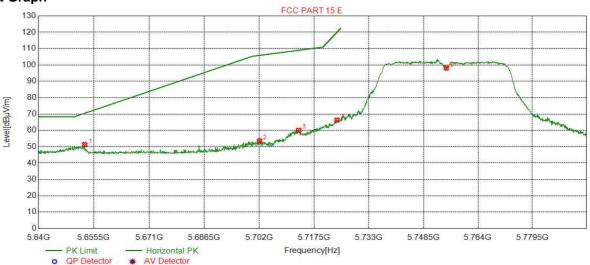
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#### 4.10.1.77 802.11AC40\_CH151

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5652.94	51.31	16.55	70.48	19.17	150	333	Horizontal	
2	5702.03	53.62	16.81	105.87	52.25	150	291	Horizontal	
3	5713.11	60.06	16.88	108.97	48.91	150	291	Horizontal	
4	5723.97	66.32	16.95	119.96	53.64	150	291	Horizontal	
5	5755.00	98.10	17.13	0.00	-98.10	150	296	Horizontal	

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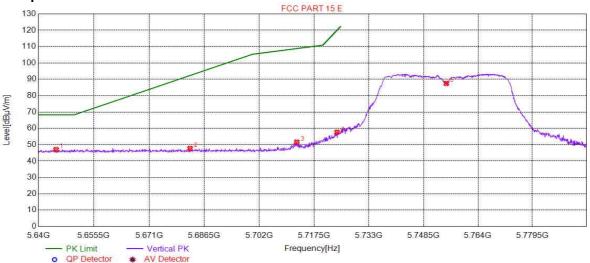
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#### 4.10.1.78 802.11AC40\_CH151

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5644.96	47.06	16.54	68.30	21.24	150	198	Vertical	
2	5682.49	47.76	16.71	92.34	44.58	150	60	Vertical	
3	5712.57	51.60	16.88	108.82	57.22	150	322	Vertical	
4	5723.97	57.64	16.95	119.96	62.32	150	299	Vertical	
5	5755.00	87.49	17.13	0.00	-87.49	150	322	Vertical	

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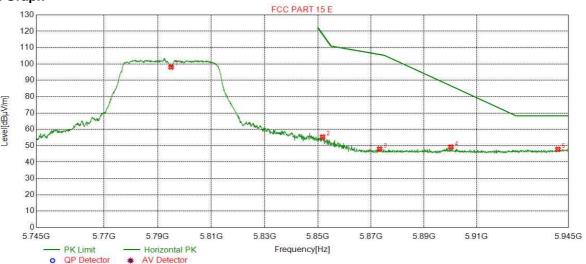
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#### 4.10.1.79 802.11AC40\_CH159

# **Test Report**

### **Test Graph**



## **Suspected List**

5.5 p 5 5									
Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5795.00	98.12	17.18	0.00	-98.12	150	299	Horizontal	
2	5851.75	55.39	17.25	118.30	62.91	150	304	Horizontal	
3	5873.26	48.04	17.19	105.79	57.75	150	16	Horizontal	
4	5900.27	49.21	17.11	86.59	37.38	150	295	Horizontal	
5	5940.99	47.85	17.74	68.30	20.45	150	309	Horizontal	

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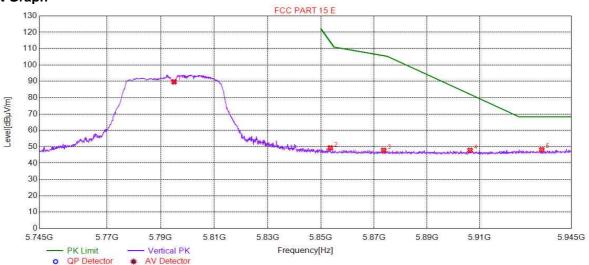
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#### 4.10.1.80 802.11AC40\_CH159

# **Test Report**

### **Test Graph**



## **Suspected List**

<u> </u>										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	5795.00	89.70	17.18	0.00	-89.70	150	313	Vertical		
2	5853.55	49.32	17.25	114.20	64.88	150	331	Vertical		
3	5873.66	47.85	17.19	105.67	57.82	150	203	Vertical		
4	5906.38	47.84	17.21	82.08	34.24	150	70	Vertical		
5	5933.69	48.16	17.63	68.30	20.14	150	107	Vertical		

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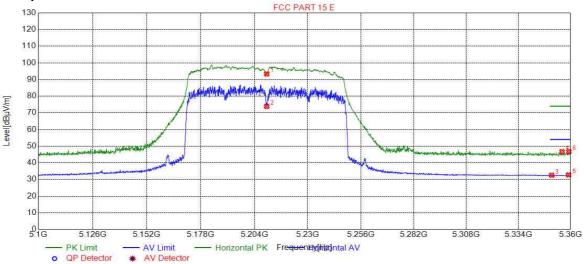
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#### 4.10.1.81 802.11AC80\_CH42

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	5210.00	93.38	15.56	0.00	-93.38	150	291	Horizontal			
2	5210.00	73.88	15.56	0.00	-73.88	150	339	Horizontal			
3	5350.63	32.58	15.94	54.00	21.42	150	198	Horizontal			
4	5355.83	46.66	15.98	74.00	27.34	150	76	Horizontal			
5	5359.08	32.78	16.00	54.00	21.22	150	325	Horizontal			
6	5359.21	46.75	16.00	74.00	27.25	150	36	Horizontal			

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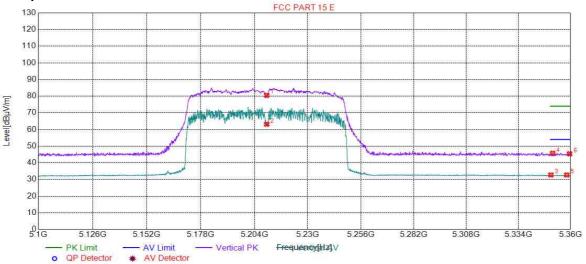
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#### 4.10.1.82 802.11AC80\_CH42

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	5210.00	80.53	15.56	0.00	-80.53	150	298	Vertical			
2	5210.00	63.20	15.56	0.00	-63.20	150	318	Vertical			
3	5350.24	32.75	15.94	54.00	21.25	150	132	Vertical			
4	5351.15	45.75	15.95	74.00	28.25	150	344	Vertical			
5	5358.17	32.74	15.99	54.00	21.26	150	318	Vertical			
6	5359.60	45.41	16.00	74.00	28.59	150	35	Vertical			

### **Final Data List**



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#### 4.10.1.83 802.11AC80\_CH42

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	5110.01	53.64	15.18	74.00	20.36	150	270	Horizontal		
2	5118.72	39.79	15.25	54.00	14.21	150	105	Horizontal		
3	5144.22	40.27	15.47	54.00	13.73	150	284	Horizontal		
4	5144.35	53.80	15.47	74.00	20.20	150	347	Horizontal		
5	5210.00	93.51	15.56	0.00	-93.51	150	284	Horizontal		
6	5210.00	75.57	15.56	0.00	-75.57	150	332	Horizontal		

### **Final Data List**



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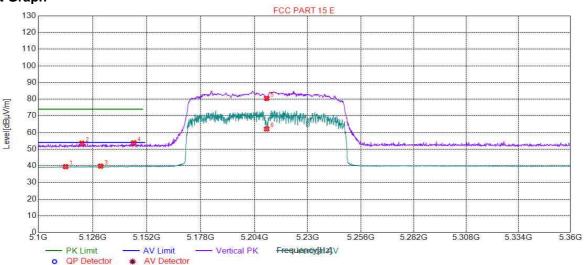
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#### 4.10.1.84 802.11AC80\_CH42

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	5113.00	39.51	15.20	54.00	14.49	150	270	Vertical		
2	5120.81	53.55	15.27	74.00	20.45	150	344	Vertical		
3	5129.78	39.84	15.35	54.00	14.16	150	186	Vertical		
4	5145.65	53.79	15.48	74.00	20.21	150	221	Vertical		
5	5210.00	80.52	15.56	0.00	-80.52	150	317	Vertical		
6	5210.00	62.14	15.56	0.00	-62.14	150	116	Vertical		

### **Final Data List**



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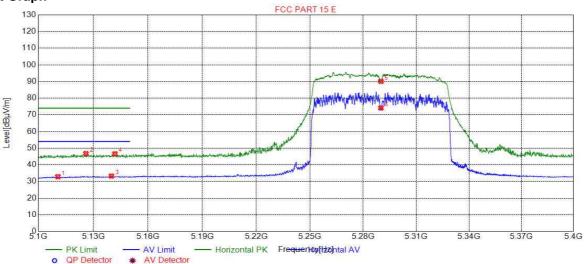
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#### 4.10.1.85 802.11AC80\_CH58

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	5110.65	32.89	15.18	54.00	21.11	150	298	Horizontal			
2	5125.96	46.76	15.31	74.00	27.24	150	354	Horizontal			
3	5139.92	33.27	15.43	54.00	20.73	150	284	Horizontal			
4	5141.87	46.65	15.45	74.00	27.35	150	270	Horizontal			
5	5290.00	90.11	15.65	0.00	-90.11	150	284	Horizontal			
6	5290.00	74.15	15.65	0.00	-74.15	150	284	Horizontal			

### **Final Data List**



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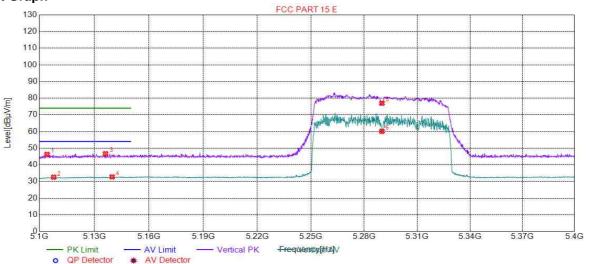
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#### 4.10.1.86 802.11AC80\_CH58

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	5104.20	46.26	15.13	74.00	27.74	150	276	Vertical			
2	5107.80	32.61	15.16	54.00	21.39	150	111	Vertical			
3	5136.16	46.68	15.40	74.00	27.32	150	206	Vertical			
4	5139.76	32.78	15.43	54.00	21.22	150	248	Vertical			
5	5290.00	77.02	15.65	0.00	-77.02	150	304	Vertical			
6	5290.00	60.12	15.65	0.00	-60.12	150	304	Vertical			

### **Final Data List**



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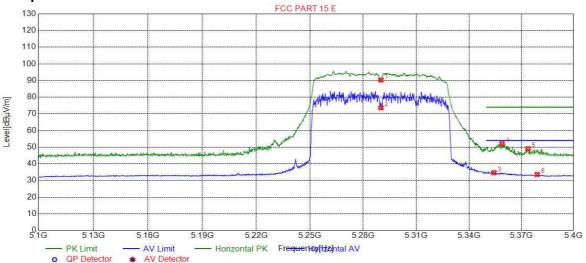
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#### 4.10.1.87 802.11AC80\_CH58

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	5290.00	90.34	15.65	0.00	-90.34	150	291	Horizontal		
2	5290.00	73.62	15.65	0.00	-73.62	150	332	Horizontal		
3	5354.22	34.67	15.97	54.00	19.33	150	284	Horizontal		
4	5358.87	52.18	16.00	74.00	21.82	150	284	Horizontal		
5	5373.73	49.04	16.09	74.00	24.96	150	339	Horizontal		
6	5378.98	33.61	16.12	54.00	20.39	150	291	Horizontal		

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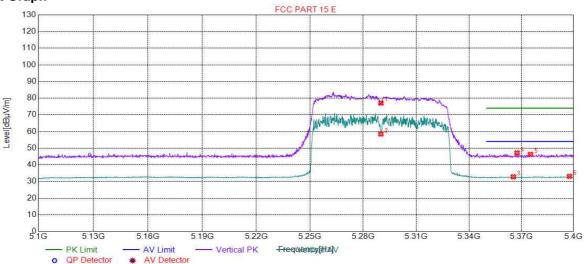
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#### 4.10.1.88 802.11AC80\_CH58

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	77.13	15.65	0.00	-77.13	150	304	Vertical
2	5290.00	58.53	15.65	0.00	-58.53	150	152	Vertical
3	5365.33	32.83	16.04	54.00	21.17	150	138	Vertical
4	5367.43	47.17	16.05	74.00	26.83	150	69	Vertical
5	5375.08	46.31	16.10	74.00	27.69	150	41	Vertical
6	5397.59	33.09	16.24	54.00	20.91	150	228	Vertical

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#### 4.10.1.89 802.11AC80\_CH106

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5419.10	33.03	16.25	54.00	20.97	150	284	Horizontal
2	5445.58	48.81	16.25	74.00	25.19	150	277	Horizontal
3	5454.46	35.37	16.25	54.00	18.63	150	284	Horizontal
4	5459.32	53.08	16.25	74.00	20.92	150	277	Horizontal
5	5530.00	93.22	16.35	0.00	-93.22	150	284	Horizontal
6	5530.00	75.27	16.35	0.00	-75.27	150	291	Horizontal

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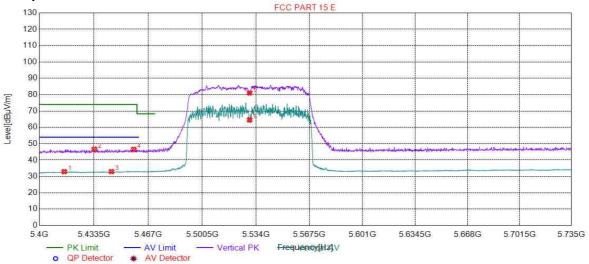
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#### 4.10.1.90 802.11AC80\_CH106

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5415.25	32.94	16.25	54.00	21.06	150	335	Vertical
2	5433.68	46.65	16.25	74.00	27.35	150	246	Vertical
3	5444.24	33.00	16.25	54.00	21.00	150	69	Vertical
4	5457.98	46.57	16.25	74.00	27.43	150	22	Vertical
5	5530.00	81.06	16.35	0.00	-81.06	150	301	Vertical
6	5530.00	64.56	16.35	0.00	-64.56	150	308	Vertical

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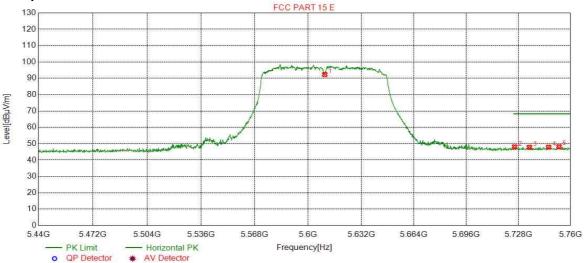
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#### 4.10.1.91 802.11AC80\_CH122

# **Test Report**

### **Test Graph**



## **Suspected List**

Susp	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	92.34	16.58	0.00	-92.34	150	283	Horizontal
2	5725.58	48.13	16.96	68.30	20.17	150	29	Horizontal
3	5734.70	47.83	17.02	68.30	20.47	150	340	Horizontal
4	5746.55	47.93	17.10	68.30	20.37	150	74	Horizontal
5	5752.95	48.22	17.12	68.30	20.08	150	126	Horizontal

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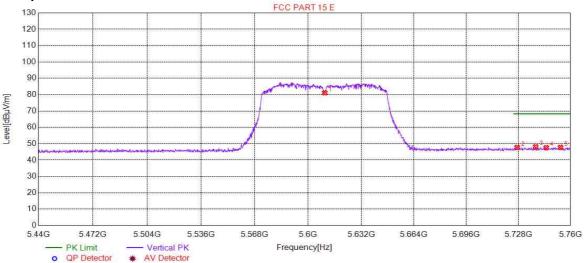
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#### 4.10.1.92 802.11AC80\_CH122

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	81.13	16.58	0.00	-81.13	150	327	Vertical
2	5727.18	47.79	16.97	68.30	20.51	150	116	Vertical
3	5738.54	48.17	17.05	68.30	20.13	150	84	Vertical
4	5745.11	47.61	17.09	68.30	20.69	150	84	Vertical
5	5753.91	47.79	17.13	68.30	20.51	150	48	Vertical

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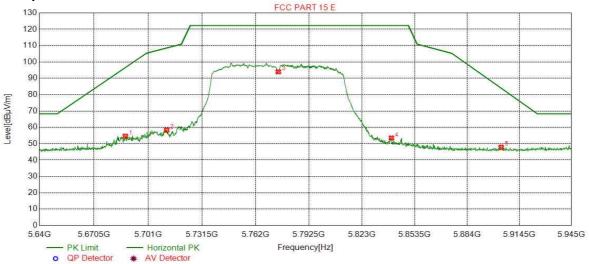
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#### 4.10.1.93 802.11AC80\_CH155

# **Test Report**

### **Test Graph**



## **Suspected List**

Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5688.21	54.65	16.74	96.58	41.93	150	290	Horizontal
2	5711.55	58.40	16.87	108.54	50.14	150	290	Horizontal
3	5775.00	94.03	17.16	122.30	28.27	150	290	Horizontal
4	5840.02	53.50	17.25	122.30	68.80	150	290	Horizontal
5	5903.80	47.92	17.17	83.98	36.06	150	189	Horizontal

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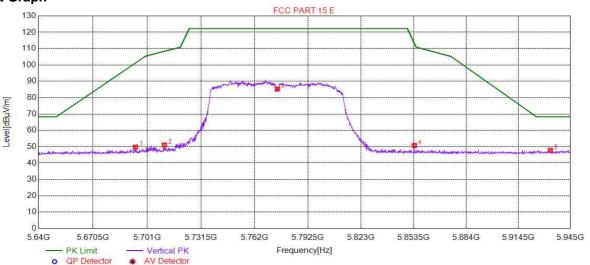
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#### 4.10.1.94 802.11AC80\_CH155

# **Test Report**

### **Test Graph**



## Suspected List

0.0								
Susp	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5694.46	49.76	16.77	101.21	51.45	150	299	Vertical
2	5710.79	51.09	16.87	108.32	57.23	150	299	Vertical
3	5775.00	85.29	17.16	122.30	37.01	150	304	Vertical
4	5853.91	50.78	17.25	113.38	62.60	150	299	Vertical
5	5933.25	47.81	17.62	68.30	20.49	150	277	Vertical

### **Final Data List**

### Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor All modes have been tested, but only the worst case data displayed in this report.



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#### 4.11 **Frequencies Stability**

4 11 1 Frequency Error vs. Voltage:

4.11.1 Trequency Error vs. voltage.					
Took Conditions	Measured Frequency (MHz)				
Test Conditions	5180	5825			
V nom(V)	5180.006641	5825.008576			
V max(V)	5180.013538	5825.013093			
V min(V)	5180.021786	5825.014133			
Max. Deviation Frequency	0.021786	0.014133			
Max. Frequency Error (ppm)	4.205795	2.426318			

4.11.2 Frequency Error vs. Temperature:

Tilliz Ilequell	cy Error vs. remperature.			
Tool Conditions (°C)	Measured Frequency (MHz)			
Test Conditions(°C)	5180	5825		
-5	5180.008310	5825.008331		
5	5180.013512	5825.014963		
15	5180.017614	5825.021816		
25	5180.021611	5825.022108		
35	5180.027627	5825.025890		
45	5180.034444	5825.030097		
50	5180.039945	5825.039037		
Max. Deviation Frequency	0.039945	0.039037		
Max. Frequency Error (ppm)	7.711411	6.701582		



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#### **Dynamic Frequency Selection** 4.12

#### 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	Client Without		
	with Radar Detection	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	Master Device or Client with	Client Without Radar		
multiple bandwidth modes	Radar Detection	Detection		
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required		
Performance Check				
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest		

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.



Transmission Time

All other tests

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available

Any single BW mode

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BW mode available for

the link

Not required



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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	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm
requirement	

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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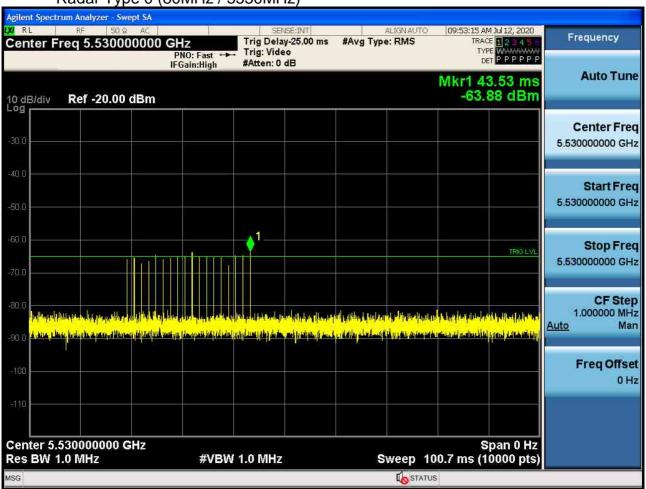
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#### 4.12.4 **Test plots**

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5530MHz)





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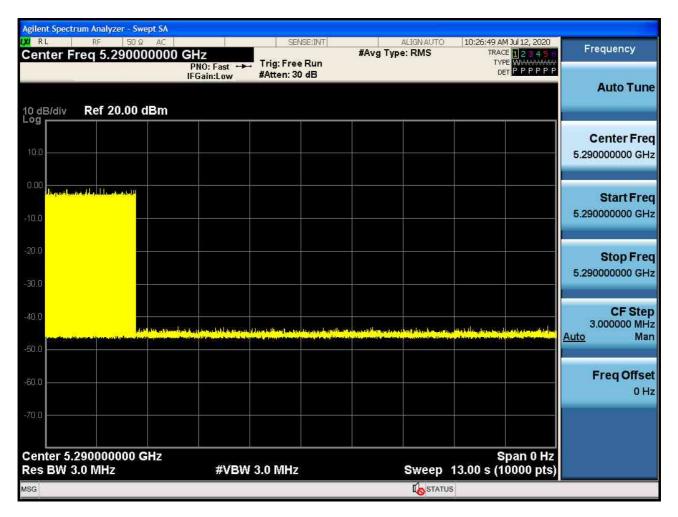
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#### 4.12.5 **Test Data:**

BW/Channel	Test Item	Test Result	Limit	Results
80MHz /	Channel Move Time	2.71s	<10s	Pass
5290MHz	Channel Closing Transmission Time	40.3ms	<60ms	Pass
80MHz /	Channel Move Time	3.43s	<10s	Pass
5530MHz	Channel Closing Transmission Time	53.3ms	<60ms	Pass

#### 4.12.5.1 **Test plots**

#### 4.12.5.1.1 Test Bandwidth/Channel= 80MHz / 5290MHz





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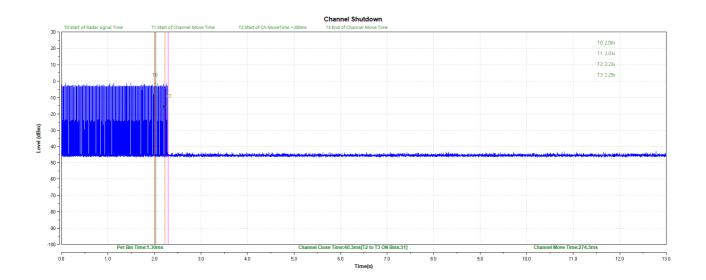
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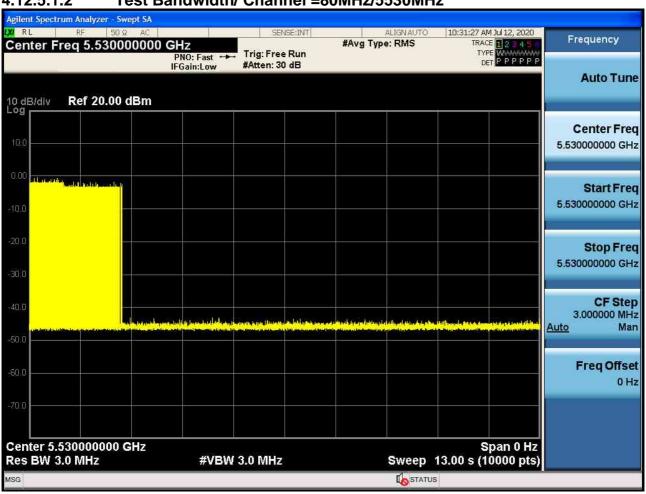
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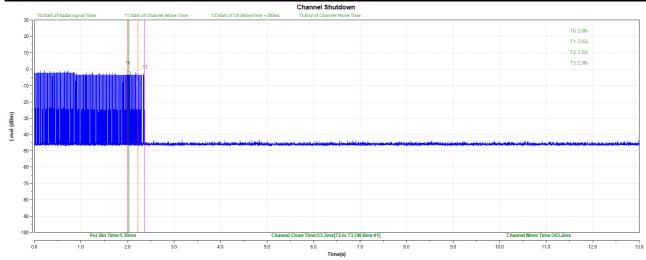


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#### Test Bandwidth/ Channel =80MHz/5530MHz 4.12.5.1.2







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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	Redicted Spurious emission test	±4.5dB (30MHz-1GHz)
	Radiated Spurious emission test	±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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#### **Equipment List** 6

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	2019/7/14	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	2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	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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RE in Chamber					
Test Equipment Manufacturer Mod	Manufacturer	Model No.	Inventory	Cal. date	Cal.Due date
	model ito.	No.	(yyyy-mm- dd)	(yyyy-mm- dd)	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001- 02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026- 01	2020/6/12	2021/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004- 09	2020/3/12	2021/3/11
BiConiLog Antenna (26-		3142C	SEM003- 01	2017/6/27	2020/6/26
3000MHz)	ETS-Lindgren			2020/6/27	2023/6/26
Horn Antenna (0.8- 18GHz)	Rohde & Schwarz	HF907	SEM003- 07	2018/4/13	2021/4/12
Pre-amplifier(0.1- 1.3GHz)	HP	8447D	SEM005- 02	2019/7/14	2020/7/14
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005- 05	2019/9/3	2020/9/2
Horn Antenna (15- 40GHz)	Schwarzbeck	BBHA 9170	SEM003- 15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005- 17	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023- 01	N/A	N/A

#### 7 **Photographs - EUT Test Setup Details**

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/60028.

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