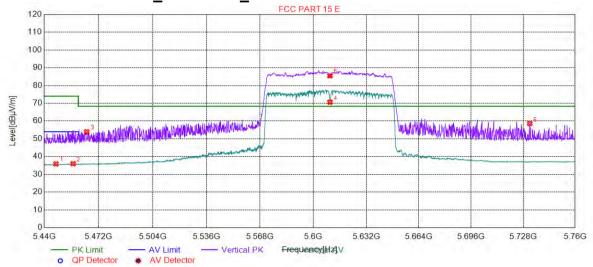


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11AC80 122 ANT 1 Vertical 4.10.1.87



Susp	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	5446.8834	35.87	19.55	54.00	18.13	150	36	Vertical		
2	5456.9685	35.98	19.58	54.00	18.02	150	36	Vertical		
3	5464.9725	53.96	19.60	68.30	14.34	150	43	Vertical		
4	5610.0000	70.65	19.51	0.00	-70.65	150	63	Vertical		
5	5610.0000	85.53	19.51	68.30	-17.23	150	63	Vertical		
6	5731.9860	58.58	19.85	68.30	9.72	150	218	Vertical		



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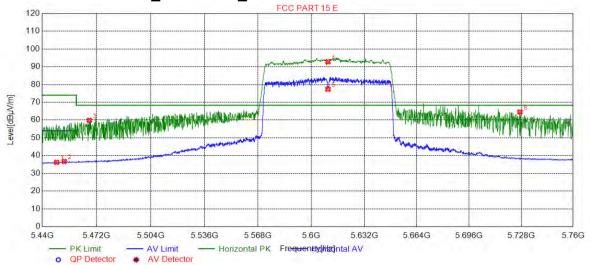
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4.10.1.88 11AC80 122 ANT 1 Horizontal



Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	5448.4842	36.23	19.55	54.00	17.77	150	64	Horizontal		
2	5452.9665	36.70	19.57	54.00	17.30	150	64	Horizontal		
3	5467.6938	59.83	19.61	68.30	8.47	150	64	Horizontal		
4	5610.0000	92.82	19.51	68.30	-24.52	150	64	Horizontal		
5	5610.0000	77.37	19.51	0.00	-77.37	150	85	Horizontal		
6	5727.1836	64.55	19.83	68.30	3.75	150	23	Horizontal		



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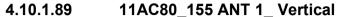
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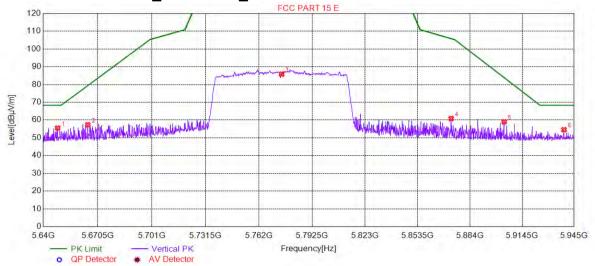
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Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	5648.0865	55.53	19.41	68.30	12.77	150	38	Vertical	
2	5665.0225	57.37	19.50	79.42	22.05	150	38	Vertical	
3	5775.0000	85.87	20.02	122.30	36.43	150	47	Vertical	
4	5872.9840	60.87	20.29	105.86	44.99	150	42	Vertical	
5	5903.9570	59.04	20.22	83.87	24.83	150	56	Vertical	
6	5939.0495	54.59	20.53	68.30	13.71	150	74	Vertical	



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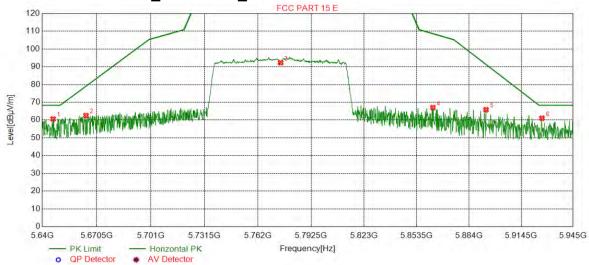
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4.10.1.90 11AC80 155 ANT 1 Horizontal



Susp	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	5646.1031	60.62	19.42	68.30	7.68	150	47	Horizontal		
2	5664.5648	62.56	19.50	79.08	16.52	150	61	Horizontal		
3	5775.0000	92.31	20.02	122.30	29.99	150	79	Horizontal		
4	5862.9140	67.04	20.33	108.68	41.64	150	79	Horizontal		
5	5893.8869	65.83	20.20	91.32	25.49	150	70	Horizontal		
6	5926.6908	61.03	20.42	68.30	7.27	150	106	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:

To at Oo wellting	Measured Freque	ncy (MHz)
Test Conditions	5180	5320
V nom(V)	5180.006468	5320.008707
V max(V)	5180.008882	5320.015864
V min(V)	5180.018019	5320.016051
Max. Deviation Frequency	0.018019	0.016051
Max. Frequency Error (ppm)	3.478578	3.017076

4.11.2 Frequency Frror vs. Temperature:

4.11.2 Trequency Error vs. Temperature.						
Too! Conditions(°C)	Measured Frequency (MHz)					
Test Conditions(°C)	5180	5320				
-5	5180.003922	5320.004543				
5	5180.005248	5320.014347				
15	5180.014060	5320.021747				
25	5180.019490	5320.025540				
35	5180.025179	5320.035119				
45	5180.025406	5320.037067				
50	5180.031152	5320.043272				
Max. Deviation Frequency	0.031152	0.043272				
Max. Frequency Error (ppm)	6.013856	8.133881				



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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	Master Device or Client with	Client Without Radar		

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
Transmission Time	available	BW mode available for
		the link
All other tests	Any single BW mode	Not required
	1 1 (0 1 50 1) 1	111 1 1

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	-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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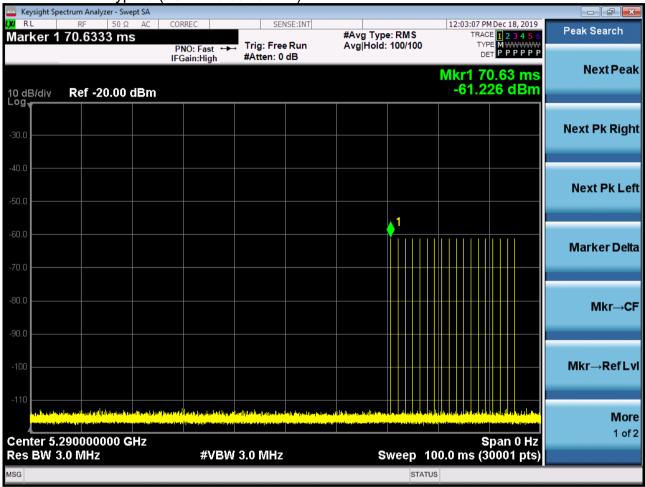
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4.12.4 **Test plots**

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (40MHz / 5510MHz)





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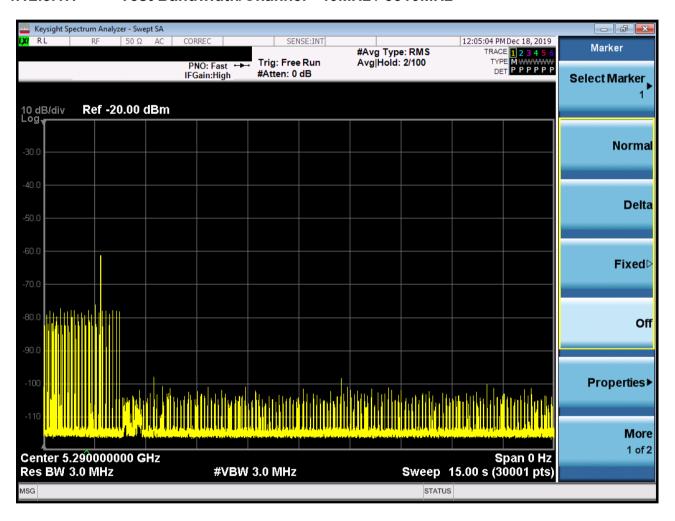
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4.12.5 **Test Data:**

BW/Channel	Test Item	Test Result	Limit	Results
40MHz /	Channel Move Time	0.552s	<10s	Pass
5510MHz	Channel Closing Transmission Time	9.999ms	<60ms	Pass

4.12.5.1 **Test plots**

Test Bandwidth/Channel= 40MHz / 5310MHz 4.12.5.1.1





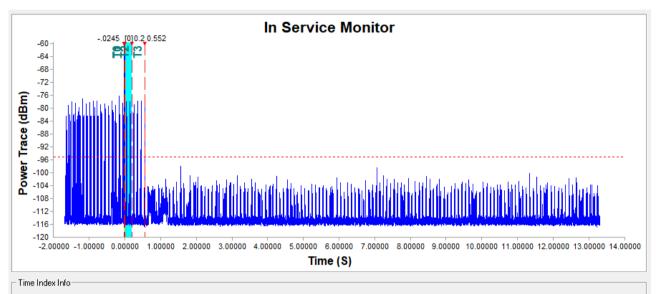
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T0:-0.0245 S (Radar Injection Start)
T1:0.0000 S (Radar Injection Stop)
T2:0.2000 S (200msec Interval)
T3:0.5520 S (Channel Move Time)

Time Per Bin:0.4999833

T2~T3 Bins Over Threshold: = 20 Bins

Channel Move Time: 0.5519816 S Channel Close Time: 0.0099997 S



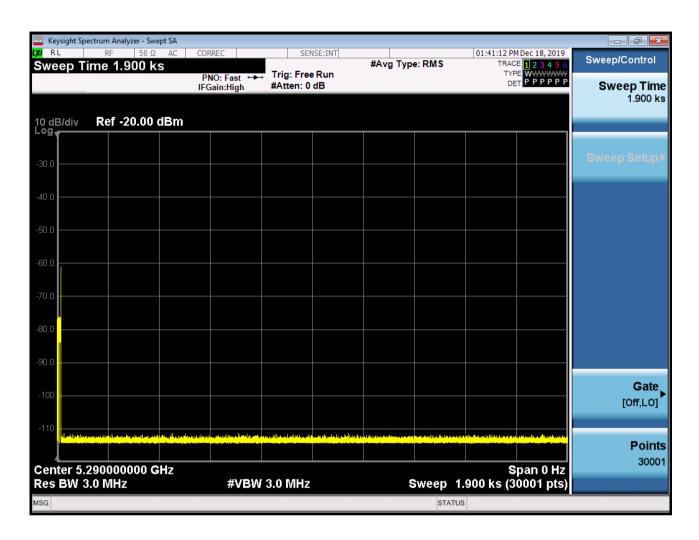
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5 **Measurement Uncertainty (95% confidence levels, k=2)**

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	Dedicted Spurious emission test	±4.5dB (30MHz-1GHz)
4	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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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	2019/7/14	2020/7/14	
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	2019/6/12	2020/6/11	
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	2019/7/14	2020/7/14	
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/3/2	2020/3/1	
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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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	2019/6/12	2020/6/11	
MXE EMI Receiver (20Hz- 8.4GHz)	Agilent Technologies	N9038A	SEM004- 05	2019/7/14	2020/7/14	
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	

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	2019/6/12	2020/6/11	
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	2019/6/12	2020/6/11	



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RE in Chamber						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)	
3m Semi-Anechoic Chamber	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	2018/413	2021/412	
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003- 15	2017/10/17	2020/10/16	
Amplifier(0.1-1300MHz)	HP	8447D	SEM005- 02	2019/7/14	2020/7/14	
Low Noise Amplifier (100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005- 05	2019/7/14	2020/7/14	
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2019/10/20	2020/10/19	
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005- 08	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	2019/6/12	2020/6/11	

Photographs 7

Refer to Appendix A - Photographs of Set-up for ZR/2019/B0024.

The End



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