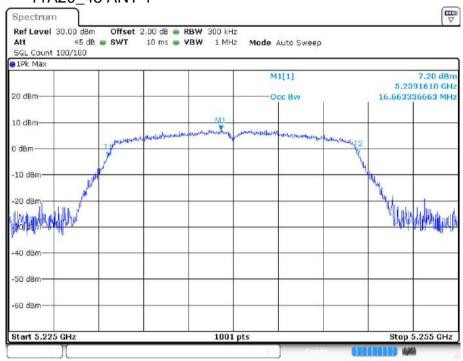


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4.5.2.2 11A20 48 ANT 1



Date: 2.NOV.2019 00:27:26

4.5.2.3

11A20 52 ANT 1



Date: 2.NOV.2019 00:28:35



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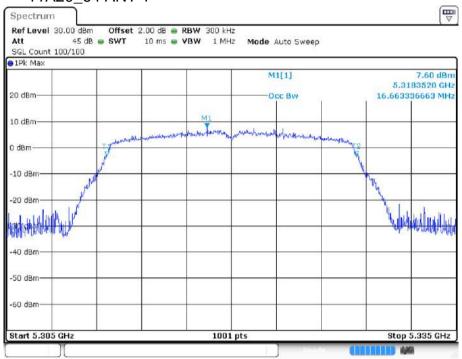
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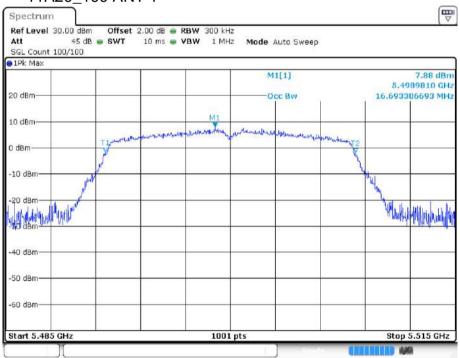
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4.5.2.5

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Date: 2.NOV.2019 00:31:25



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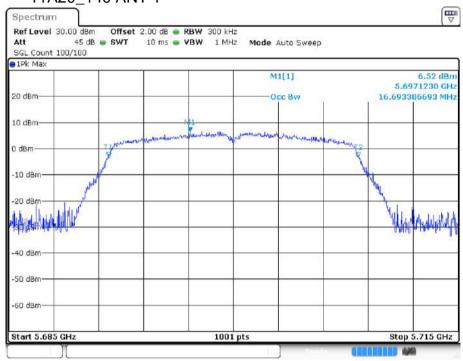
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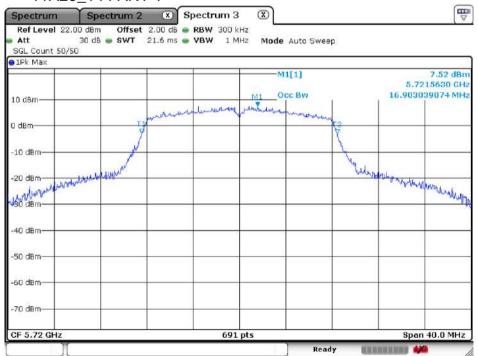
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4.5.2.6 11A20 140 ANT 1



Date: 2.NOV.2019 00:32:47

4.5.2.7 11A20 144 ANT 1



Date: 14.DEC.2019 03:42:44



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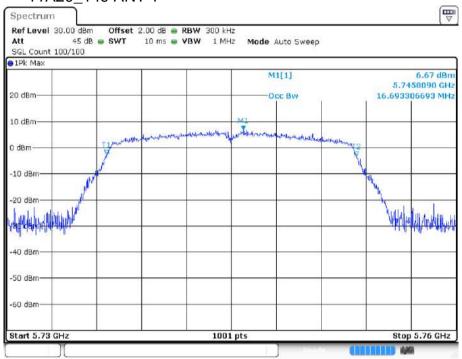
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4.5.2.8 11A20 149 ANT 1



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4.5.2.9

11A20 165 ANT 1



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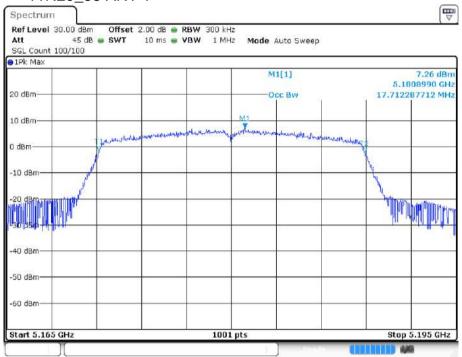
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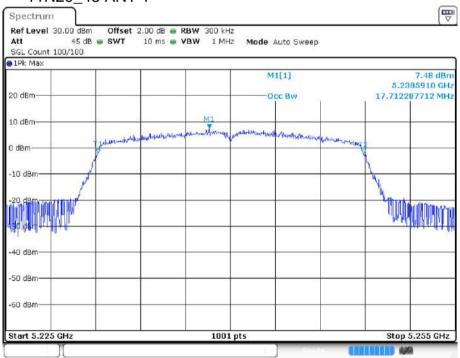
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4.5.2.11

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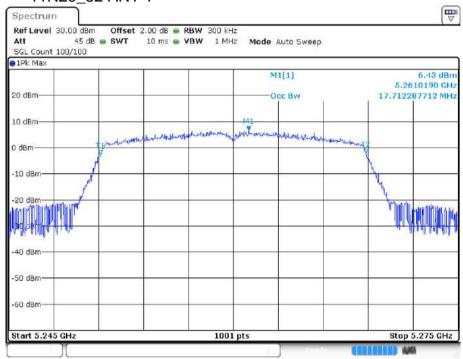
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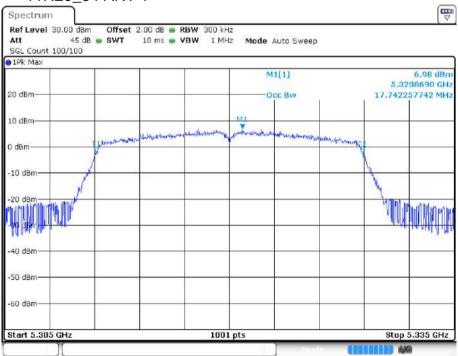
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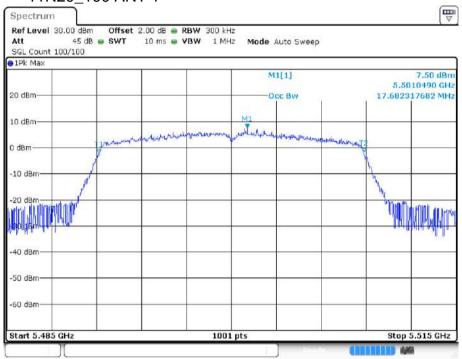
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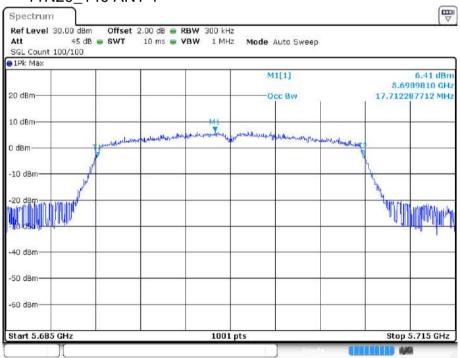
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11N20 140 ANT 1



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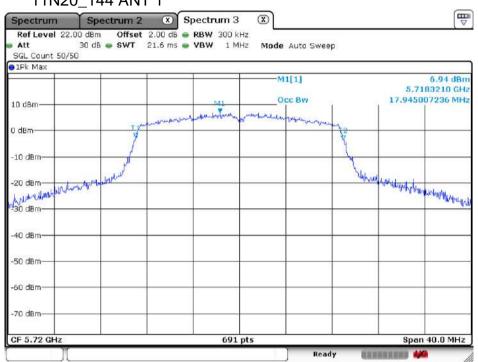
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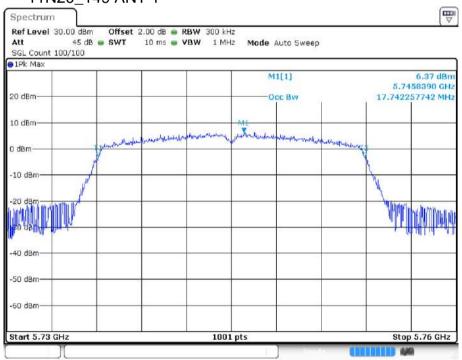
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4.5.2.17

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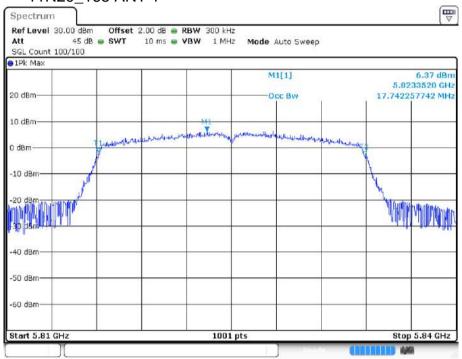
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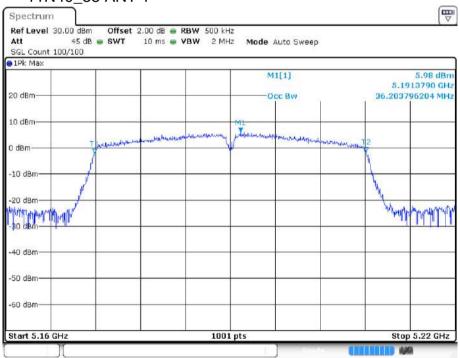
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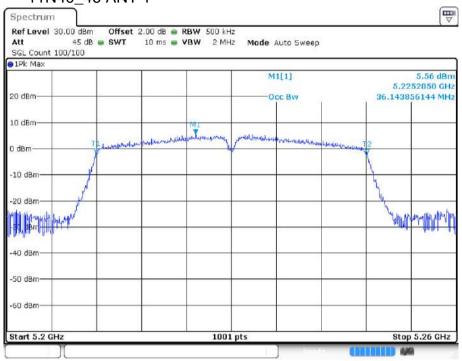
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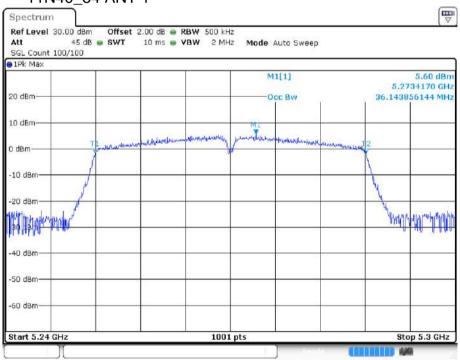
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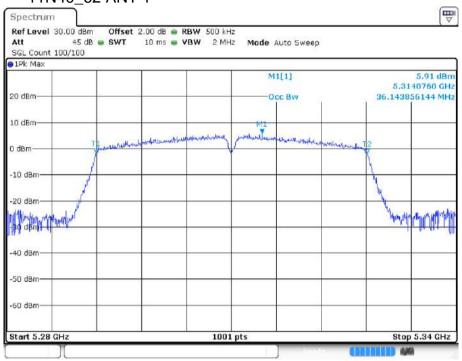
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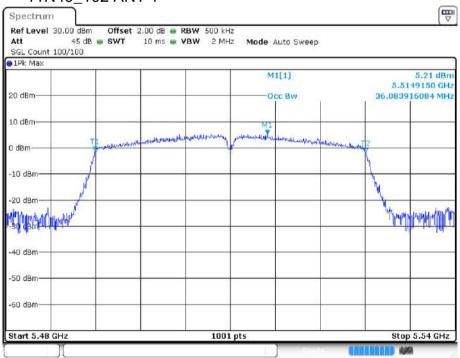
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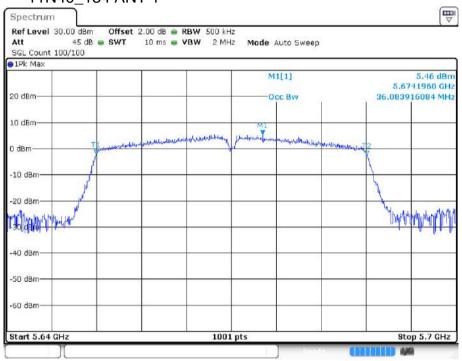
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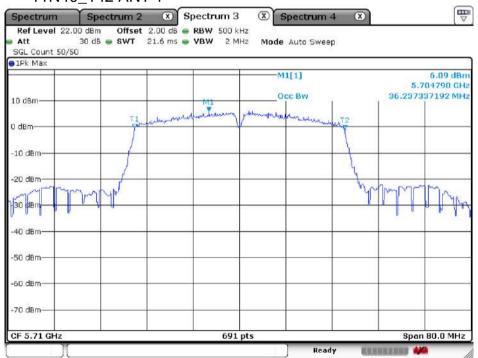
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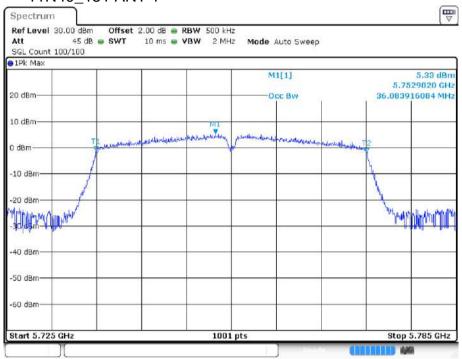
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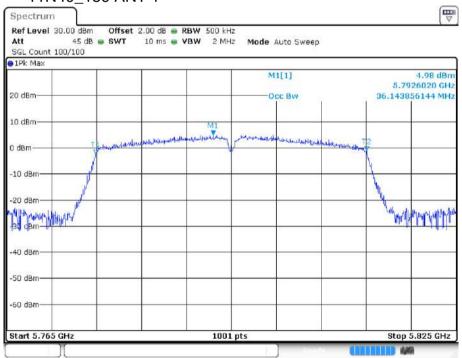
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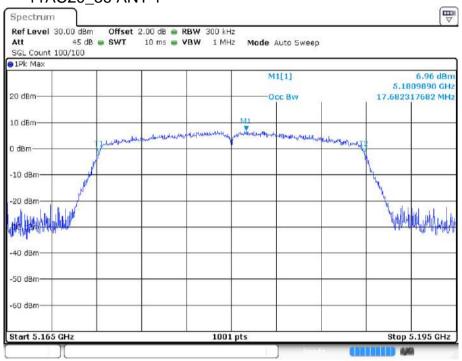
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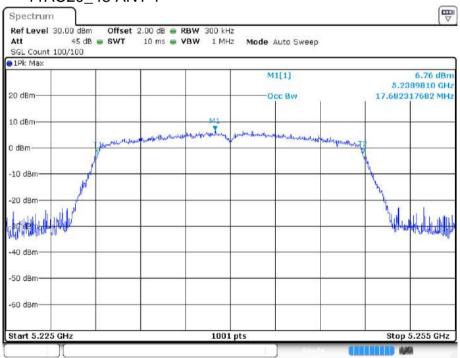
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4.5.2.29

11AC20 48 ANT 1



Date: 2.NOV.2019 00:50:59



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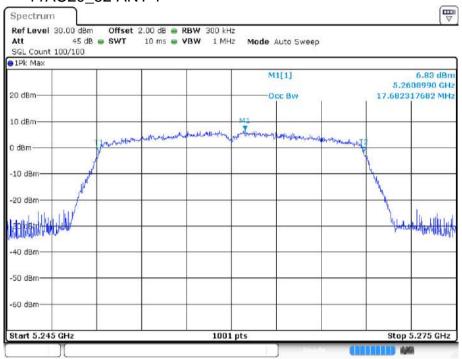
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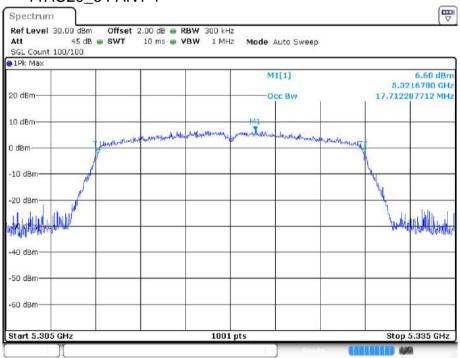
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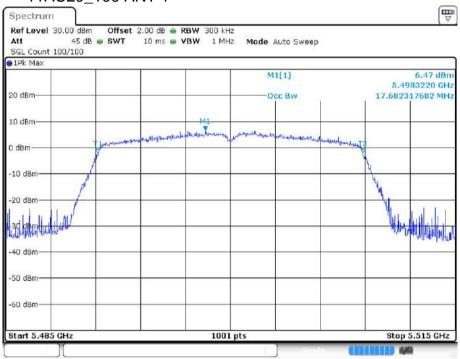
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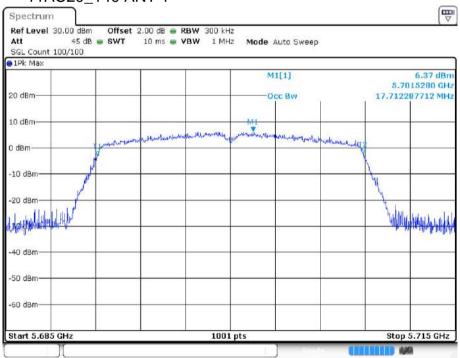
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4.5.2.34 11AC20 144 ANT 1



Date: 14.DEC.2019 03:47:58

4.5.2.35

11AC20_149 ANT 1



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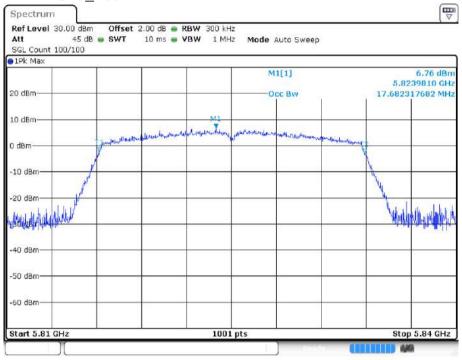
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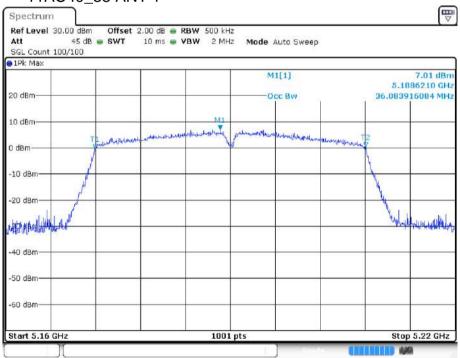
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4.5.2.37

11AC40 38 ANT 1



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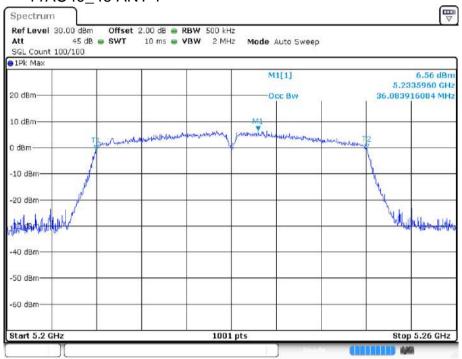
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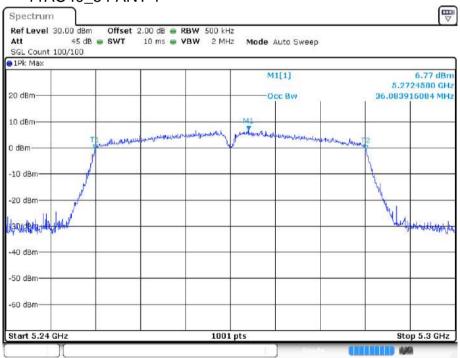
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4.5.2.39

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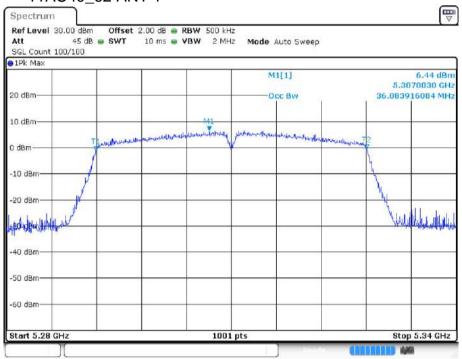
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4.5.2.40 11AC40 62 ANT 1



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4.5.2.41

11AC40_102 ANT 1



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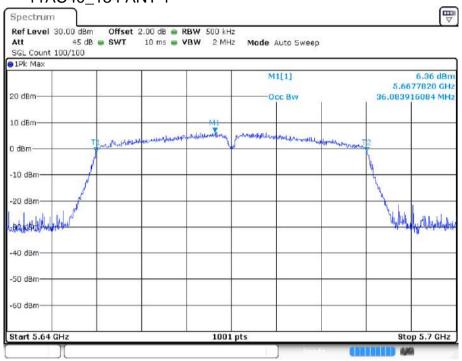
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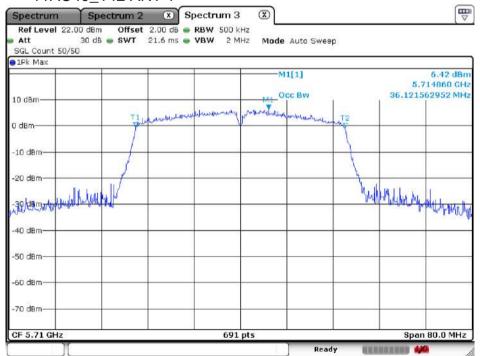
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4.5.2.43 11AC40 142 ANT 1



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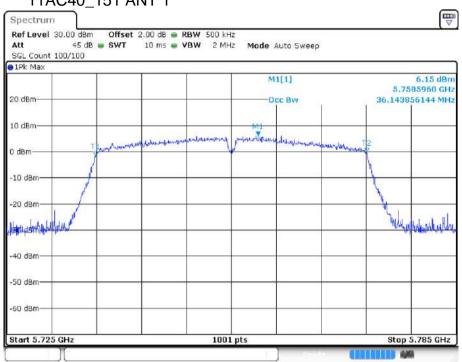
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4.5.2.44 11AC40 151 ANT 1



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4.5.2.45

11AC40_159 ANT 1



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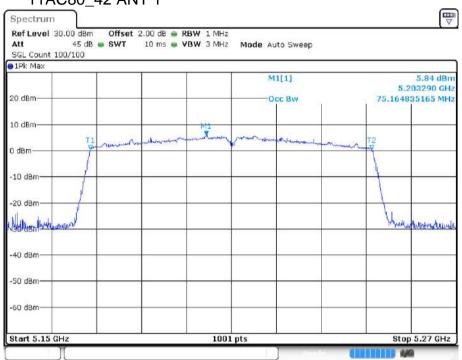
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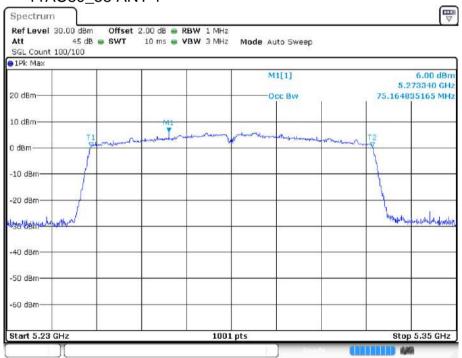
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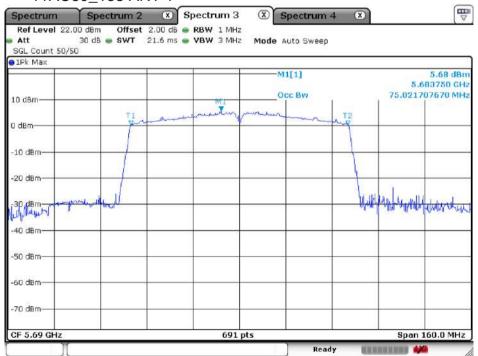
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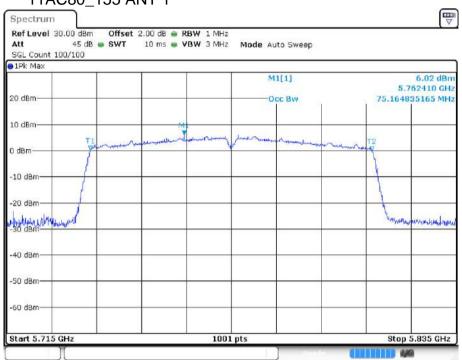
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4.5.2.50 11AC80 155 ANT 1



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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)				
Test Method:	ANSI C63.10: 2013				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.				
Limit:	Frequency Band	Limit			
	5150-5250MHz	The power spectral density less than 11dBm/1MHz			
	5250-5350MHz	The power spectral density less than 11dBm/1MHz			
	5470-5725MHz	The power spectral density less than 11dBm/1MHz			
	5725-5850MHz	The power spectral density less than <30dBm/500KHz			
Test Results:	Pass				



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4.6.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.)	Unit	Verdict
11A20	36	5180	ANT 1	6.54	dBm/MHz	PASS
	48	5240	ANT 1	6.31	dBm/MHz	PASS
	52	5260	ANT 1	6.43	dBm/MHz	PASS
	64	5320	ANT 1	6.09	dBm/MHz	PASS
	100	5500	ANT 1	6.36	dBm/MHz	PASS
	140	5700	ANT 1	5.64	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	5.29	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.29	dBm/500KHz	PASS
	149	5745	ANT 1	4.26	dBm/500KHz	PASS
	165	5825	ANT 1	4.16	dBm/500KHz	PASS
	36	5180	ANT 1	6.32	dBm/MHz	PASS
	48 52	5240	ANT 1	6.04	dBm/MHz	PASS
	64	5260 5320	ANT 1 ANT 1	5.52 6.17	dBm/MHz	PASS PASS
	100	5500	ANT 1	5.48	dBm/MHz dBm/MHz	PASS
11N20	140	5700	ANT 1	5.54	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	4.89	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.53	dBm/500KHz	PASS
	149	5745	ANT 1	4.28	dBm/500KHz	PASS
	165	5825	ANT 1	4.21	dBm/500KHz	PASS
	38	5190	ANT 1	3	dBm/MHz	PASS
	46	5230	ANT 1	2.36	dBm/MHz	PASS
	54	5270	ANT 1	2.17	dBm/MHz	PASS
	62	5310	ANT 1	2.44	dBm/MHz	PASS
	102	5510	ANT 1	2.32	dBm/MHz	PASS
11N40	134	5670	ANT 1	2.25	dBm/MHz	PASS
	144(BandII-C)	5710	ANT 1	1.62	dBm/MHz	PASS
	144(BandIII)	5710	ANT 1	-4.62	dBm/500KHz	PASS
	151	5755	ANT 1	1.14	dBm/500KHz	PASS
	159	5795	ANT 1	0.63	dBm/500KHz	PASS
	36	5180	ANT 1	6.23	dBm/MHz	PASS
	48	5240	ANT 1	5.78	dBm/MHz	PASS
	52	5260	ANT 1	5.69	dBm/MHz	PASS
	64	5320	ANT 1	6.16	dBm/MHz	PASS
444000	100	5500	ANT 1	5.85	dBm/MHz	PASS
11AC20	140	5700	ANT 1	5.43	dBm/MHz	PASS
	142(BandII-C)	5720	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5720	ANT 1	0.56	dBm/500KHz	PASS
	149	5745	ANT 1	4.12	dBm/500KHz	PASS
	165	5825	ANT 1	4.14	dBm/500KHz	PASS
11AC40	38	5190	ANT 1	3.58	dBm/MHz	PASS
	46	5230	ANT 1	3.28	dBm/MHz	PASS



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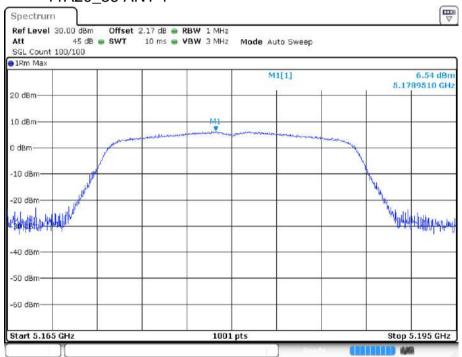
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	ı		ı			
	54	5270	ANT 1	3.41	dBm/MHz	PASS
	62	5310	ANT 1	3.47	dBm/MHz	PASS
	102	5510	ANT 1	3.44	dBm/MHz	PASS
	134	5670	ANT 1	3.11	dBm/MHz	PASS
	142(BandII-C)	5710	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5710	ANT 1	0.56	dBm/500KHz	PASS
	151	5755	ANT 1	1.75	dBm/500KHz	PASS
	159	5795	ANT 1	1.61	dBm/500KHz	PASS
11AC80	42	5210	ANT 1	-0.34	dBm/MHz	PASS
	58	5290	ANT 1	-0.68	dBm/MHz	PASS
	106	5530	ANT 1	-0.3	dBm/MHz	PASS
	138(BandII-C)	5690	ANT 1	-2.75	dBm/MHz	PASS
	138(BandIII)	5690	ANT 1	-9.22	dBm/500KHz	PASS
	155	5775	ANT 1	-2.14	dBm/500KHz	PASS

4.6.2 Test plots For Power Density

4.6.2.1 11A20_36 ANT 1



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11A20 48 ANT 1 4.6.2.2



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4.6.2.3

11A20 52 ANT 1



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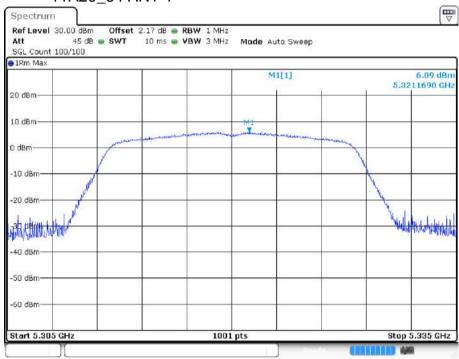
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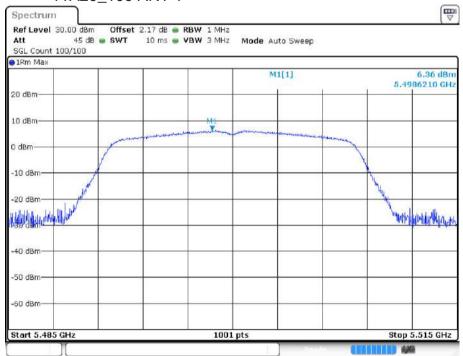
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4.6.2.4 11A20 64 ANT 1



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4.6.2.5 11A20_100 ANT 1



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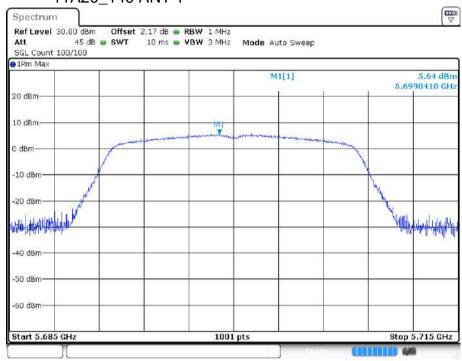
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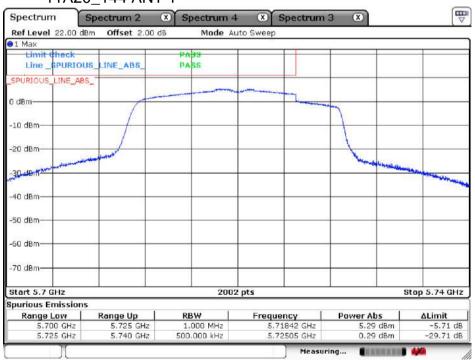
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11A20 140 ANT 1 4.6.2.6



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4.6.2.7 11A20 144 ANT 1



Date: 14.DEC.2019 03:39:06



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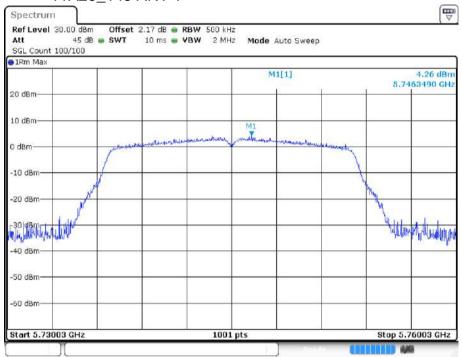


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11A20 149 ANT 1 4.6.2.8



Date: 2.NOV.2019 00:35:40

4.6.2.9

11A20 165 ANT 1 Spectrum Ref Level 30.00 dBm Offset 2.17 dB @ RBW 500 kHz 45 dB . SWT 10 ms - VBW 2 MHz Mode Auto Sweep



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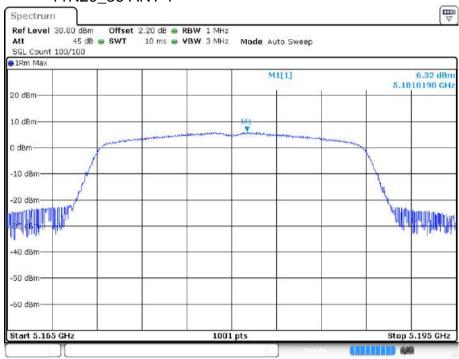
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11N20 36 ANT 1 4.6.2.10



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4.6.2.11

11N20_48 ANT 1



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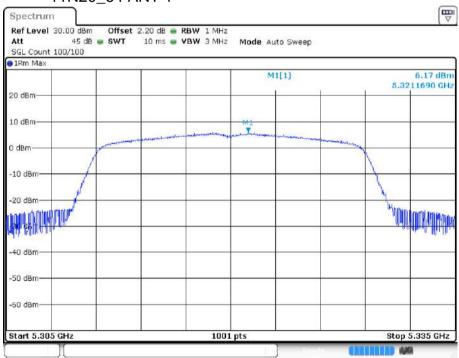
11N20 52 ANT 1 4.6.2.12



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4.6.2.13

11N20_64 ANT 1



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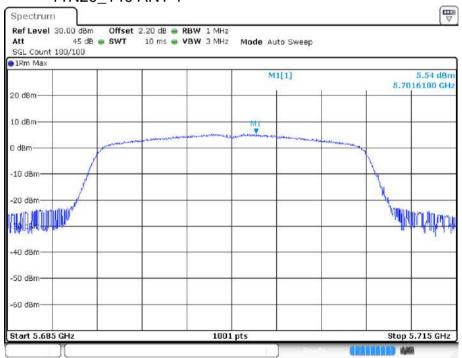
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4.6.2.15

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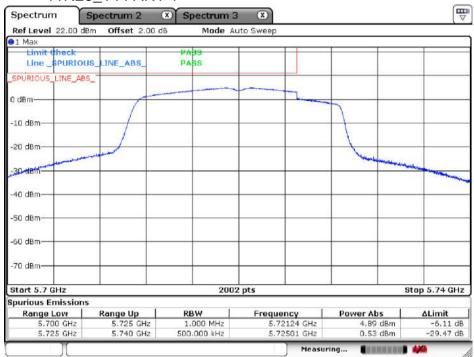
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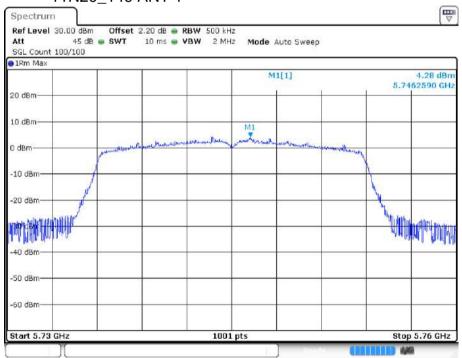
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11N20 144 ANT 1 4.6.2.16



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4.6.2.17 11N20_149 ANT 1



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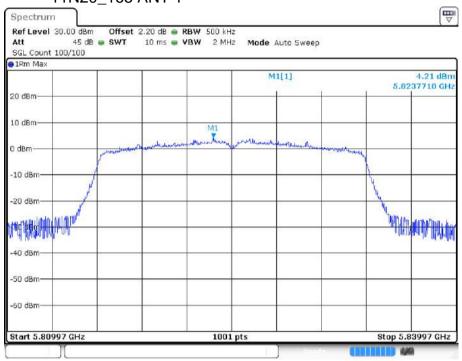
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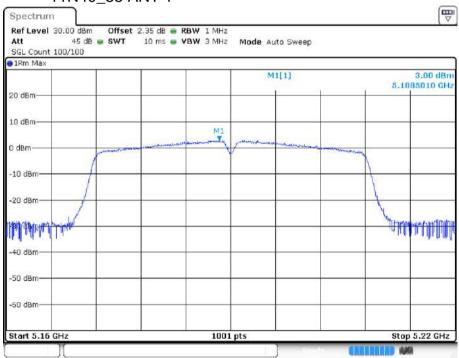
11N20 165 ANT 1 4.6.2.18



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4.6.2.19

11N40_38 ANT 1



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4.6.2.20 11N40 46 ANT 1



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4.6.2.21 11N40 54 ANT 1



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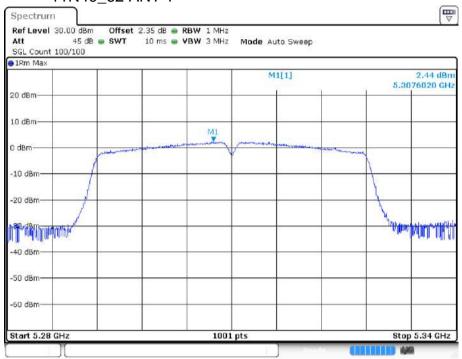
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4.6.2.22 11N40 62 ANT 1



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4.6.2.23

11N40_102 ANT 1



Date: 2.NOV.2019 01:10:29



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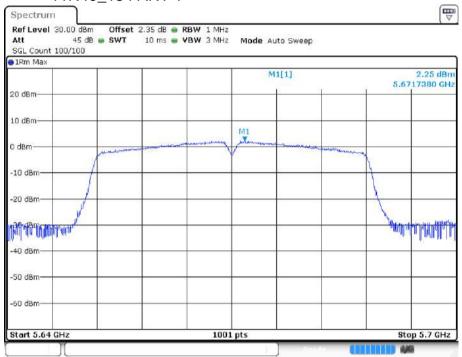
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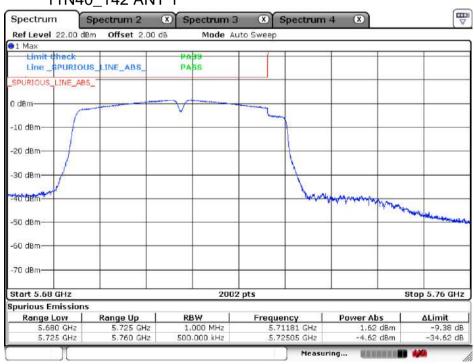
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Date: 2.NOV.2019 01:12:11

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11N40 142 ANT 1



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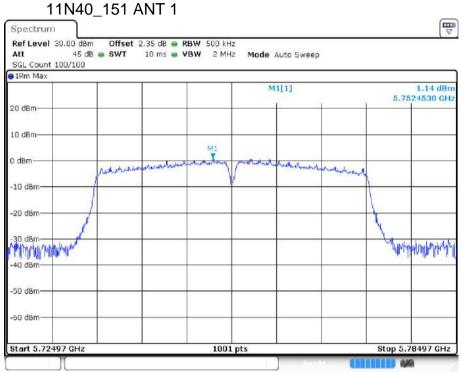
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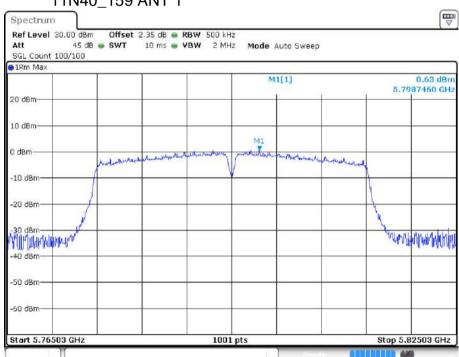
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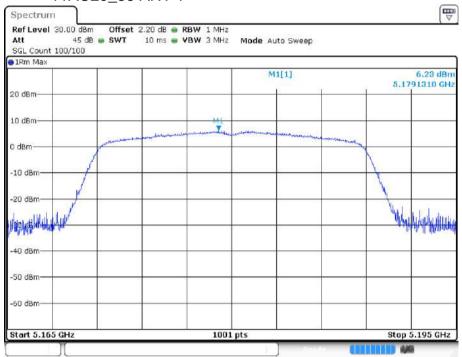
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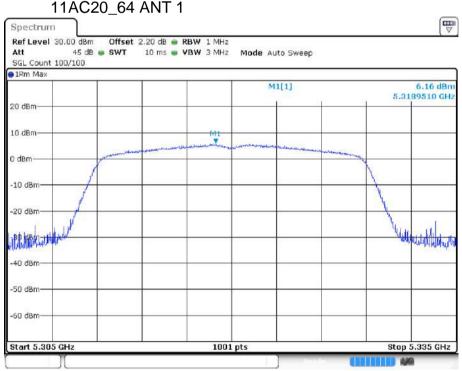
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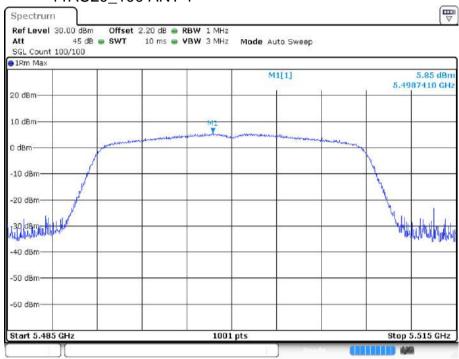
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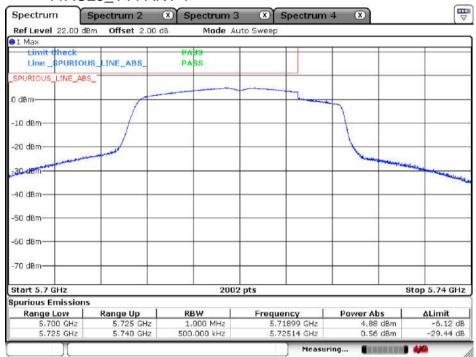
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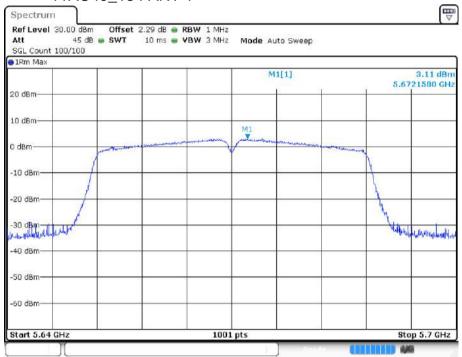
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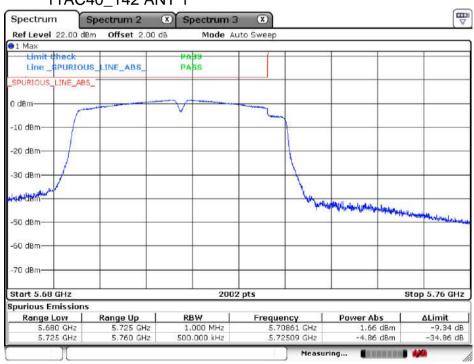
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11AC40 142 ANT 1



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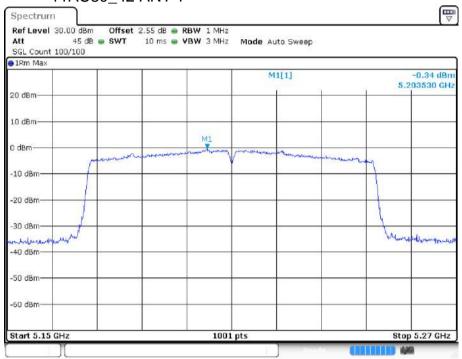


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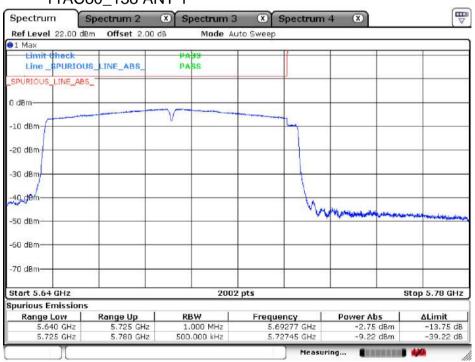
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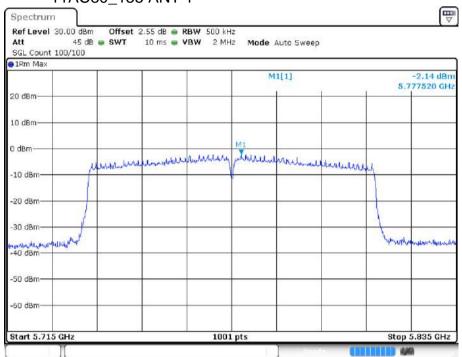
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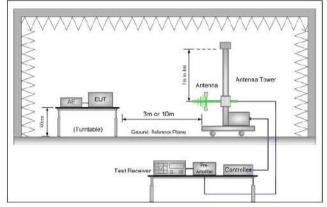


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4.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	



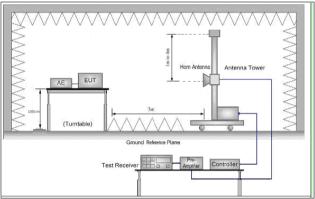


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.



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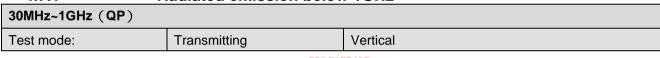


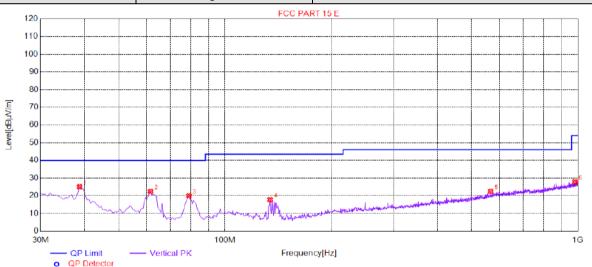
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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a;					
	MCS0 of rate is the worst case of 802.11n(HT20);					
	MCS0 of rate is the worst case of 802.11n(HT40);					
	MCS0 of rate is the worst case of 802.11ac(HT20);					
	MCS0 of rate is the worst case of 802.11ac(HT40);					
	MCS0 of rate is the worst case of 802.11ac(HT80)					
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case.					
	Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					

4.7.1 Radiated emission below 1GHz





Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	38.7344	25.12	-28.75	40.00	14.88	209	62	Vertical			
2	61.5408	22.48	-32.26	40.00	17.52	178	72	Vertical			
3	79.0095	19.98	-35.97	40.00	20.02	200	67	Vertical			
4	134.3272	17.79	-35.28	43.50	25.71	135	236	Vertical			
5	566.1931	22.50	-21.58	46.00	23.50	209	46	Vertical			
6	981.0755	27.85	-15.05	54.00	26.15	162	354	Vertical			



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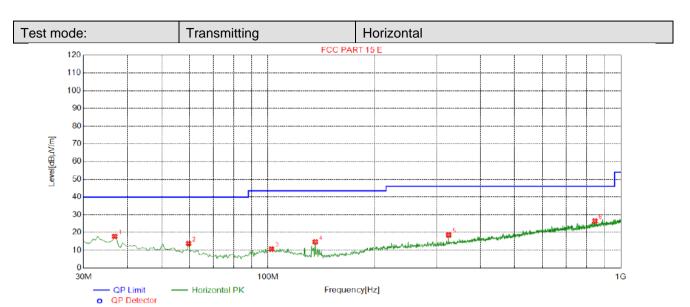
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Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	36.7934	17.76	-29.38	40.00	22.24	221	140	Horizontal			
2	59.5998	13.80	-31.80	40.00	26.20	190	341	Horizontal			
3	102.3012	10.63	-32.00	43.50	32.87	279	148	Horizontal			
4	136.2681	14.68	-35.37	43.50	28.82	268	62	Horizontal			
5	325.0275	18.60	-27.56	46.00	27.40	244	336	Horizontal			
6	844.2371	26.43	-16.98	46.00	19.57	291	23	Horizontal			



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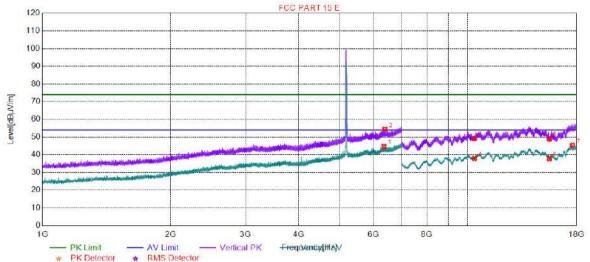


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4.7.2 Transmitter emission above 1GHz

4.7.2.1 11A20 36 ANT 1 Vertical



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	6344.1672	44.69	21.66	54.00	9.31	258	0	Vertical			
2	6380.1690	54.42	21.85	74.00	19.58	296	291	Vertical			
3	10360.0000	49.29	-5.35	74.00	24.71	274	190	Vertical			
4	10360.0000	37.90	-5.35	54.00	16.10	123	342	Vertical			
5	15540.0000	49.10	-3.26	74.00	24.90	261	291	Vertical			
6	15540.0000	37.84	-3.26	54.00	16.16	158	190	Vertical			
7	17606.1803	45.38	1.47	54.00	8.62	349	190	Vertical			



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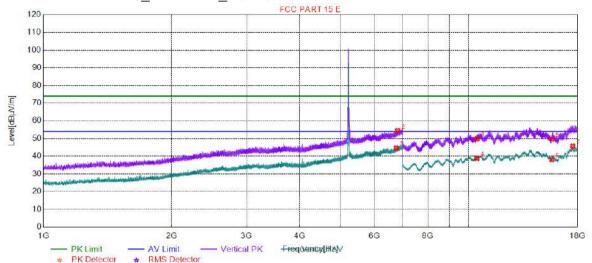
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4.7.2.2 11A20 44 ANT 1 Vertical



	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	6747.9874	44.62	22.81	54.00	9.38	258	342	Vertical			
2	6795.9898	54.46	23.31	74.00	19.54	296	191	Vertical			
3	10440.0000	49.88	-4.92	74.00	24.12	274	191	Vertical			
4	10440.0000	38.85	-4.92	54.00	15.15	153	241	Vertical			
5	15660.0000	49.67	-3.54	74.00	24.33	216	141	Vertical			
6	15660.0000	38.03	-3.54	54.00	15.97	213	241	Vertical			
7	17533.0267	45.65	0.77	54.00	8.35	161	141	Vertical			



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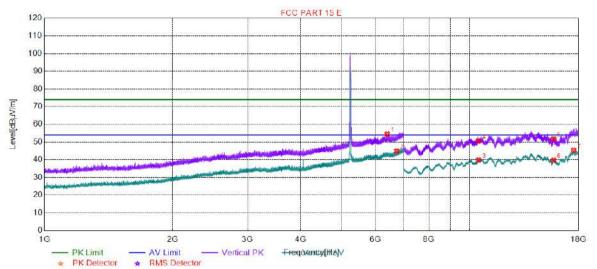
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4.7.2.3 11A20 48 ANT 1 Vertical



Susp	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	6392.1696	54.52	21.92	74.00	19.48	174	241	Vertical			
2	6728.1864	44.90	22.60	54.00	9.10	185	292	Vertical			
3	10480.0000	39.87	-4.49	54.00	14.13	196	190	Vertical			
4	10480.0000	50.64	-4.49	74.00	23.36	231	342	Vertical			
5	15720.0000	51.73	-2.65	74.00	22.27	261	39	Vertical			
6	15720.0000	39.73	-2.65	54.00	14.27	242	240	Vertical			
7	17527.5264	45.30	0.70	54.00	8.70	312	89	Vertical			



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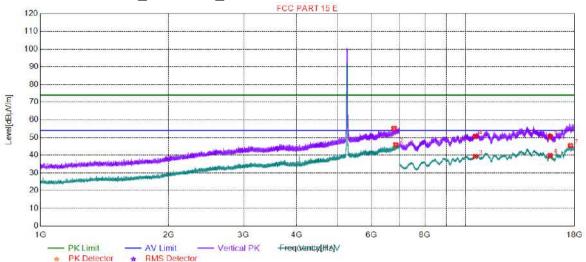
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Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	6775.2888	55.14	23.09	74.00	18.86	174	191	Vertical			
2	6837.0919	45.88	23.44	54.00	8.12	185	40	Vertical			
3	10520.0000	39.32	-4.37	54.00	14.68	321	190	Vertical			
4	10520.0000	50.62	-4.37	74.00	23.38	269	140	Vertical			
5	15780.0000	50.53	-2.36	74.00	23.47	258	0	Vertical			
6	15780.0000	39.81	-2.36	54.00	14.19	159	190	Vertical			
7	17613.8807	45.41	1.27	54.00	8.59	191	190	Vertical			



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