REPORT No.: SZ16080027W10

FCC RF TEST REPORT

APPLICANT	:	TCL communication Ltd
PRODUCT NAME	:	BigPad
MODEL NAME	:	C15BA
TRADE NAME	:	N/A
BRAND NAME	:	TCL\ ALCATEL\alcatel\ ALCATEL onetouch\Xess
FCC ID	:	2ACCJB068
STANDARD(S)	:	47 CFR Part 15 Subpart E
ISSUE DATE	:	2016-09-30

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Change History		
Issue	Date	Reason for change
1.0	2016-09-30	First edition

TEST REPORT DECLARATION

Applicant	TCL communication Ltd
Applicant Address	15/F, TCL Tower, Gaoxin Nan Yi Road, Nanshan District, Shenzhen, Guangdong, P.R.C
Manufacturer	TCL communication Ltd
Manufacturer Address	15/F, TCL Tower, Gaoxin Nan Yi Road, Nanshan District, Shenzhen, Guangdong, P.R.C
Product Name	BigPad
Model Name	C15BA
Brand Name	TCL\ ALCATEL\alcatel\ ALCATEL onetouch\Xess
HW Version	Lite_MT8783_MB_V03_6HG REV:C
SW Version	V8-MT878303-XCNR2B0A
Test Standards	47 CFR Part 15 Subpart E
Test Date	2016-08-05 to 2016-09-30
Test Result	PASS

Tested by : Zou Jian

Zou Jian

Reviewed by : Qiu Xiaojun

Qiu Xiaojun

Approved by : Zeng Dexin

Zeng Dexin

1. GENERAL INFORMATION

1.1 EUT Description

EUT Type.....:	BigPad
Serial No. .....:	(n.a, marked #1 by test site)
Hardware Version.....:	Lite_MT8783_MB_V03_6HG REV:C
Software Version.....:	V8-MT878303-XCNR2B0A
Applicant.....:	TCL communication Ltd 15/F, TCL Tower, Gaoxin Nan Yi Road, Nanshan District, Shenzhen, Guangdong, P.R.C
Manufacturer .....:	N/A
Frequency Range.....:	802.11b/g/n: 2.400GHz - 2.4835GHz 802.11a/ac/n: 5.150GHz- 5.250GHz 5.25 GHz -5.35 GHz 5.47 GHz -5.725 GHz 5.725GHz- 5.850GHz
Channel Number .....:	Refer Note(2)
Modulation Type.....:	DSSS, OFDM
Antenna Type.....:	PIFA Antenna
Antenna Gain.....:	-4.24dBi MAX(2.4GHz); -4.98dBi MAX(5GHz);

Note:

1. The U-NII band is applicable to this report, another bands of operation (2.4GHz) is documented in a separate report.
2. The following tables are the channel number and frequency of the EUT, the black bold channels were selected for test.

20MHz Bandwidth:

Frequency Range	5150~5250MHz				5250~5350MHz			
Channel Number	**36**	40	**44**	**48**	**52**	56	**60**	**64**
Frequency (MHz)	**5180**	5200	**5220**	**5240**	**5260**	5280	**5300**	**5320**

Frequency Range	5470~5725MHz										
Channel Number	**100**	105	108	112	**116**	120	124	128	132	136	**140**
Frequency (MHz)	**5500**	5520	5540	5560	**5580**	5600	5620	5640	5660	5680	**5700**

Frequency Range	5725~5850MHz				
Channel Number	**149**	153	**157**	161	**165**
Frequency (MHz)	**5745**	5765	**5785**	5805	**5825**

40MHz Bandwidth:

Frequency Range	5150~5250 MHz		5250~5350 MHz		5470~5725MHz						5725~5850 MHz	
Channel Number	**38**	**46**	**54**	**62**	**102**	110	118	**126**	134	**142**	**151**	**159**
Frequency (MHz)	**5190**	**5230**	**5270**	**5310**	**5510**	5550	5590	**5630**	5670	**5710**	**5755**	**5795**

80MHz Bandwidth:

Frequency Range	5150~5250MHz	5250~5350MHz	5470~5725MHz			5725~5850MHz
Channel Number	**42**	**58**	**106**	**122**	**138**	**155**
Frequency (MHz)	**5210**	**5290**	**5530**	**5610**	**5690**	**5775**

3. During test, the duty cycle of the EUT was setting to 100%.
4. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.
5. The antenna connector of EUT is designed with permanent attachment and no consideration of replacement.

1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart E (UNII band) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (5-1-14 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.203	Antenna Requirement	**PASS**
2	15.407(a) (e)	Emission Bandwidth	**PASS**
3	15.407(a)	Maximum conducted output Power	**PASS**
4	15.407(a)	Peak Power spectral density	**PASS**
5	15.407(b)	Restricted Frequency Bands	**PASS**
6	15.407(g)	Frequency Stability	**PASS**
7	15.407(h)	TPC and DFS	**PASS** (Note)
8	15.207	Conducted Emission	**PASS**
9	15.407(b)	Radiated Emission	**PASS**
10	15.407(f)	RF exposure evaluation	**PASS**
Note: EUT is a Client Device Without Radar Detection, WIFI hotspot does not support U-NII band; A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.			

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.

These RF tests were performed according to the method of measurements prescribed in KDB789033 D02 v01r02 (08/04/2016) and KDB905462 D07 v01r01 (08/04/2016).

1.3 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR PART 15E REQUIREMENTS

2.1 Antenna requirement

2.1.1 Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

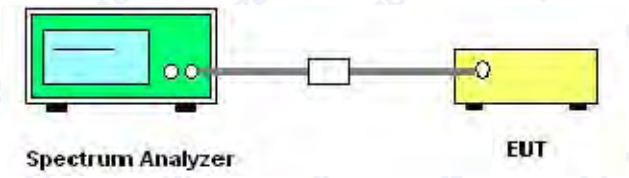
2.2 Emission Bandwidth

2.2.1 Requirement

For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement. Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

2.2.2 Test Description

A. Test Set:



The EUT which is powered by the battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

B. Test Procedure

1. KDB 789033 Section C) 1) Emission Bandwidth was used in order to prove compliance

1) Set RBW = approximately 1% of the emission bandwidth.

2) Set the VBW > RBW.

3) Detector = Peak.

4) Trace mode = max hold.

5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. KDB 789033 Section C) 2) minimum emission bandwidth for the band 5.725-5.85GHz was used in order to prove compliance.

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) ≥ 3 × RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

2.2.3 Test Result

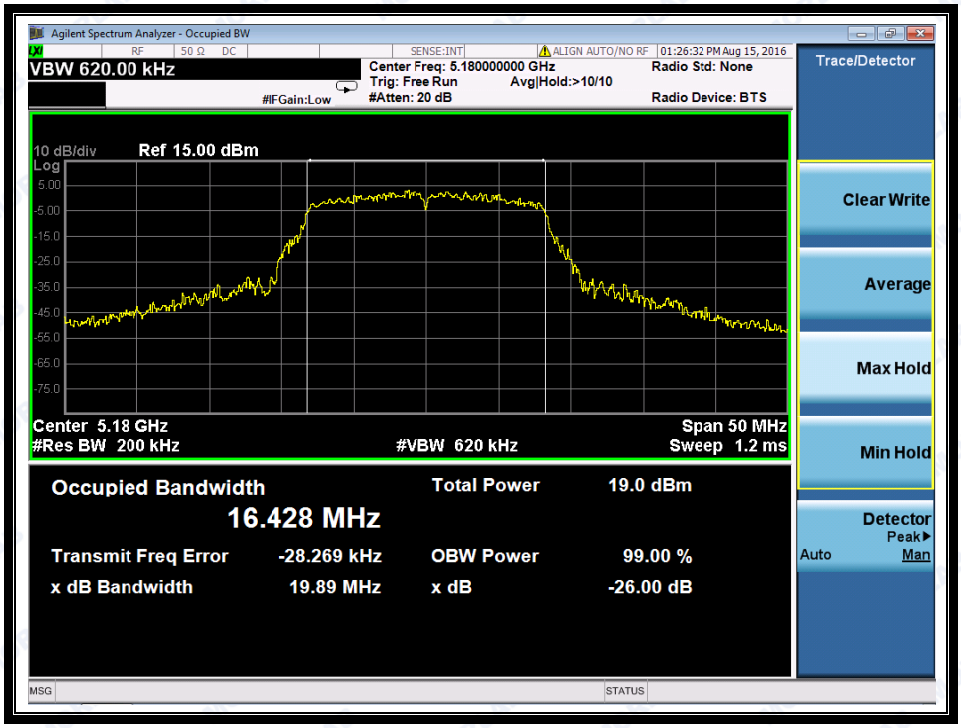
The lowest, middle and highest channels are selected to perform testing to record the 26 dB bandwidth of the Module.

2.2.3.1 802.11a-20MHz Test mode

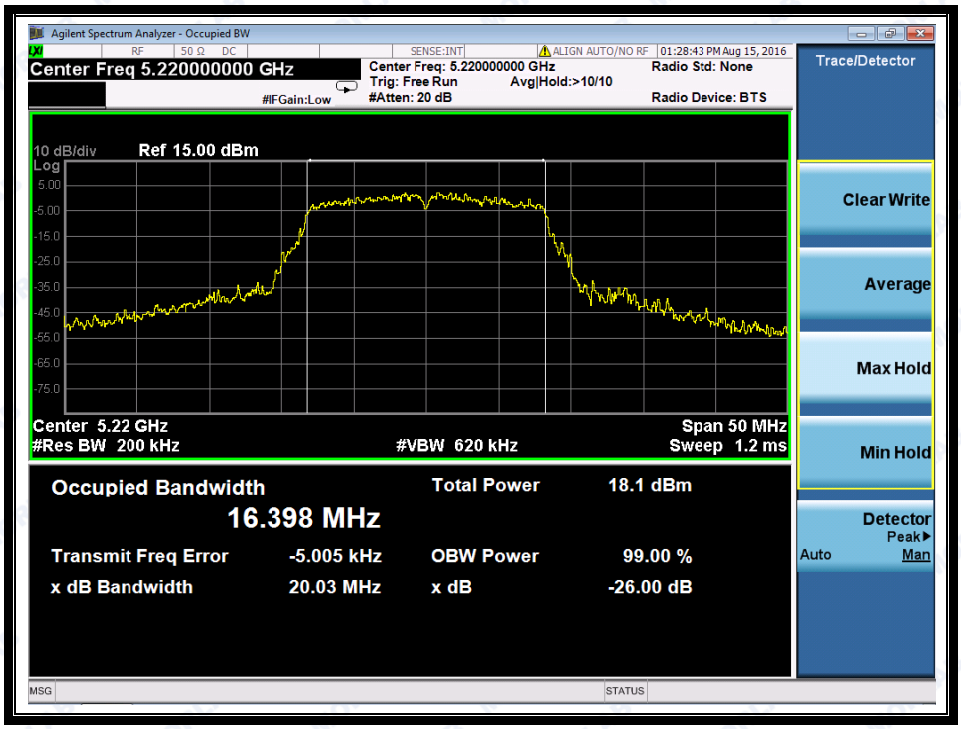
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	19.89
44	5220	20.03
48	5240	19.68
52	5260	19.76
60	5300	19.65
64	5320	20.17
100	5500	19.48
116	5580	19.54
140	5700	19.69
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
149	5745	16.10
157	5785	16.36
165	5825	16.33

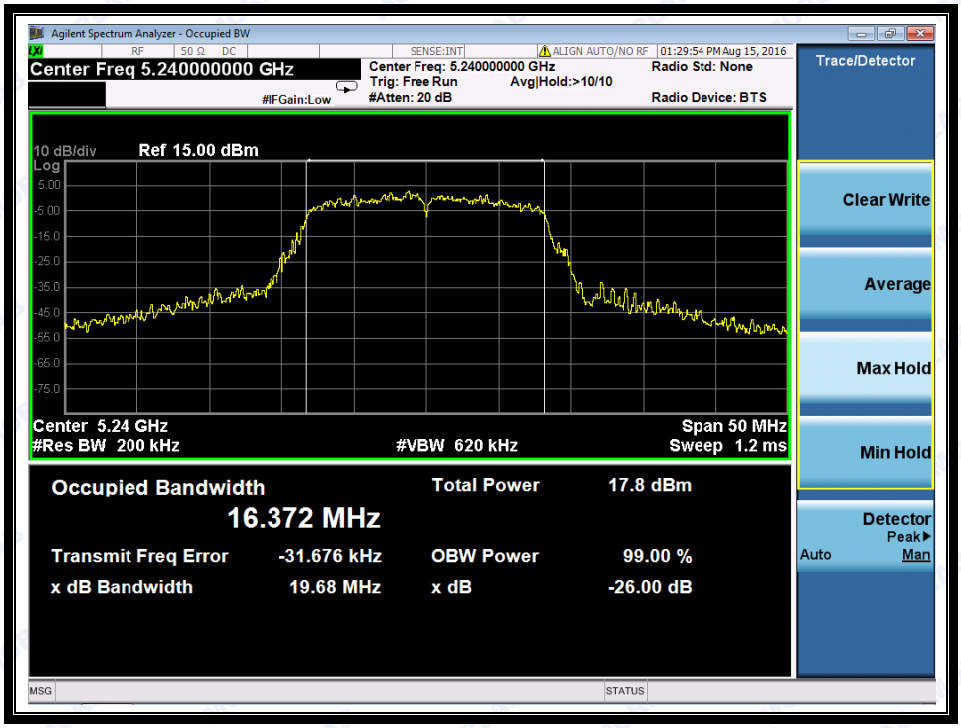
B. Test Plots



(Channel 36: 5180MHz @ 802.11a)

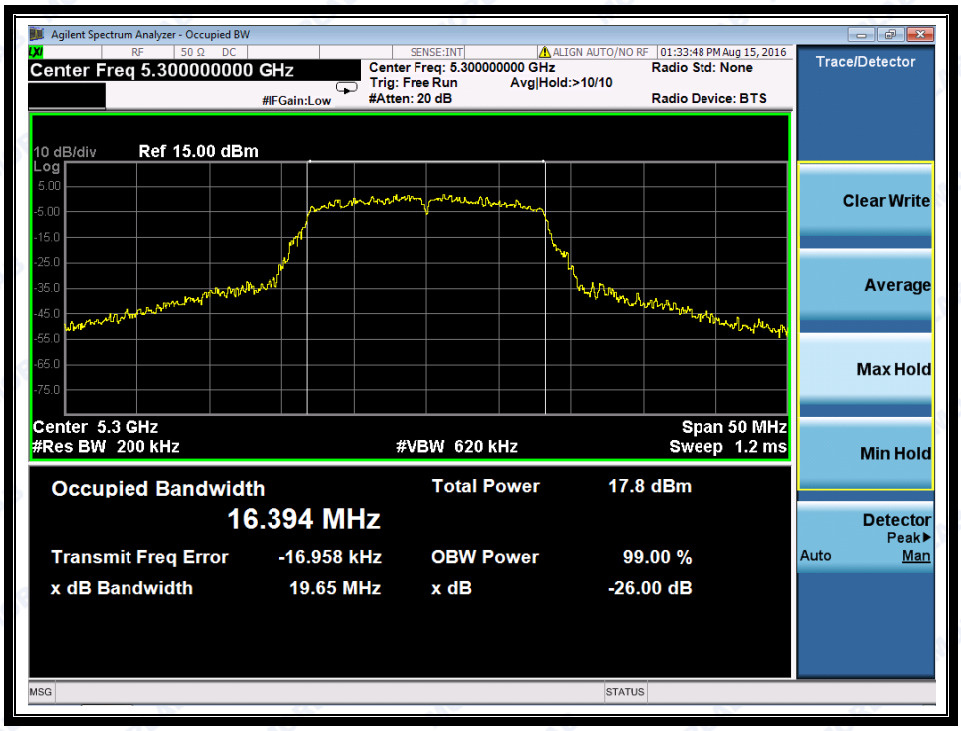


(Channel 44: 5220 MHz @ 802.11a)

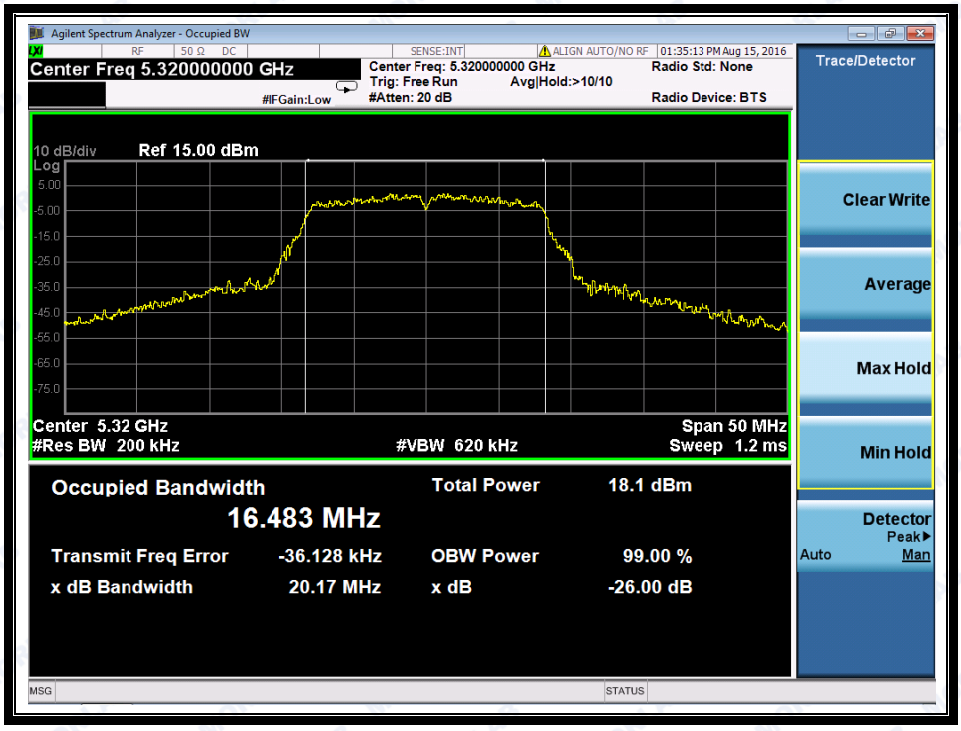


(Channel 48: 5240MHz @ 802.11a)

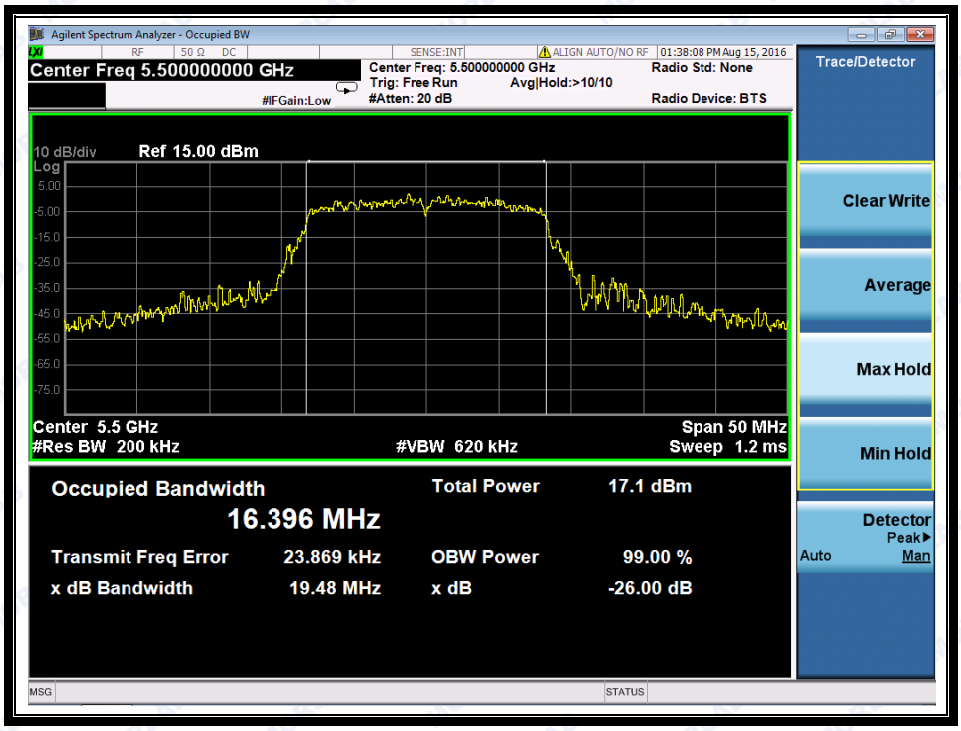
(Channel 52: 5260MHz @ 802.11a)



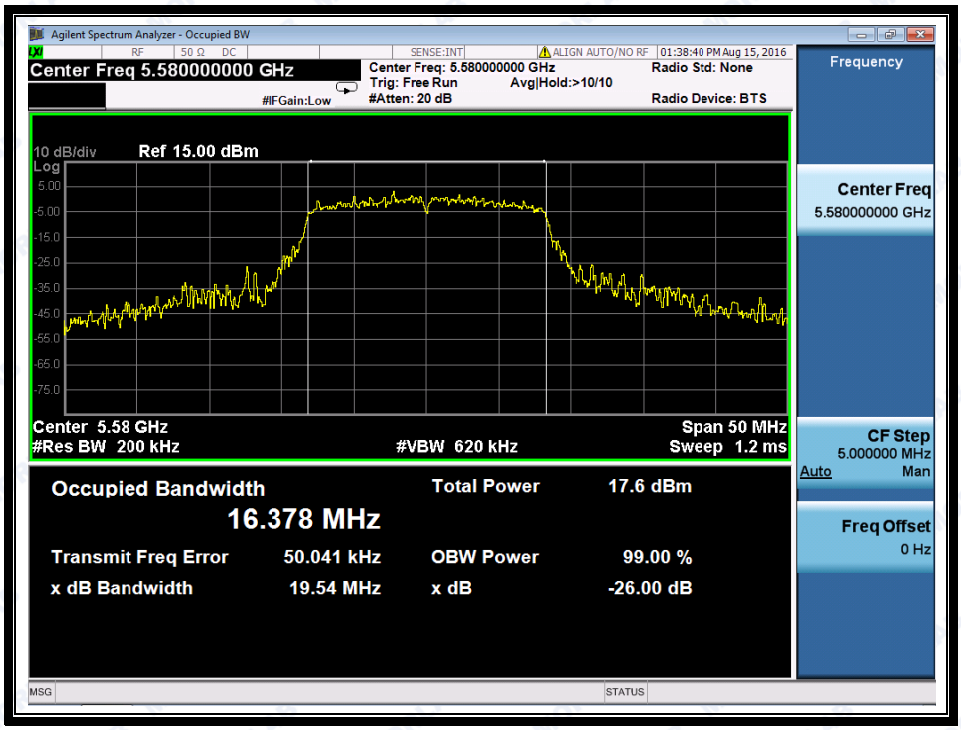
(Channel 60: 5300MHz @ 802.11a)



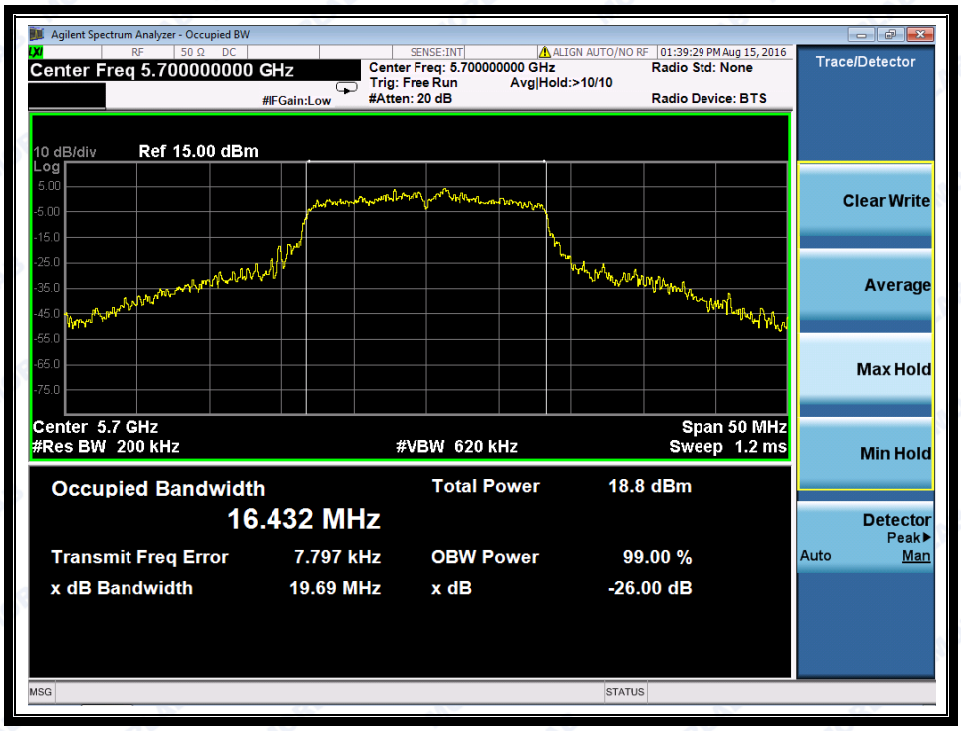
(Channel 64: 5320MHz @ 802.11a)



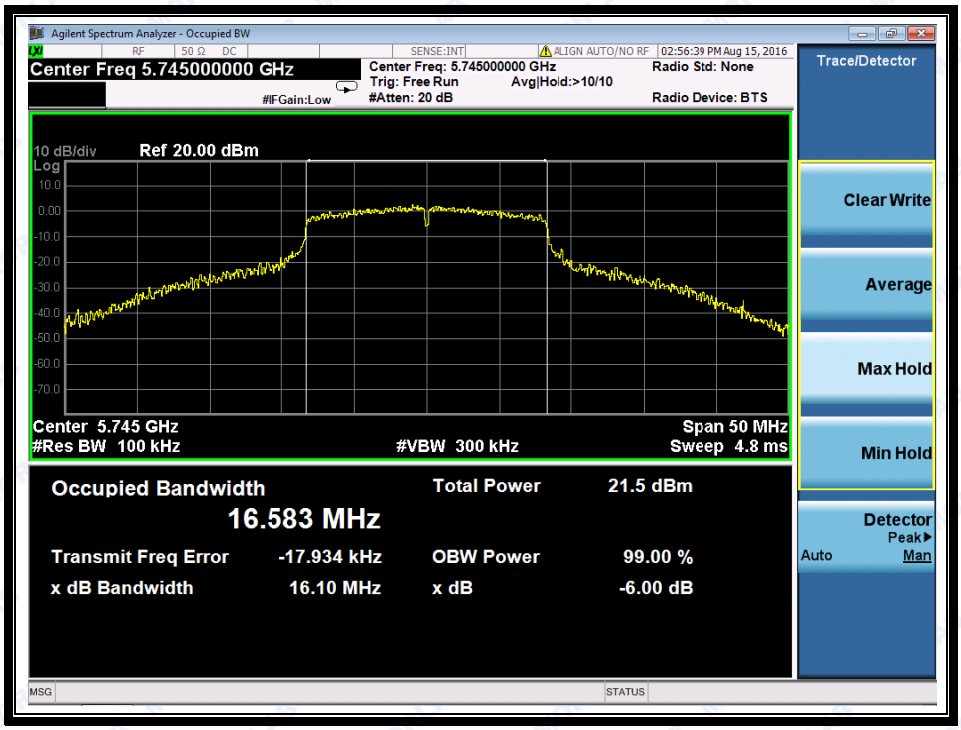
(Channel 100: 5500MHz @ 802.11a)



(Channel 116: 5580MHz @ 802.11a)

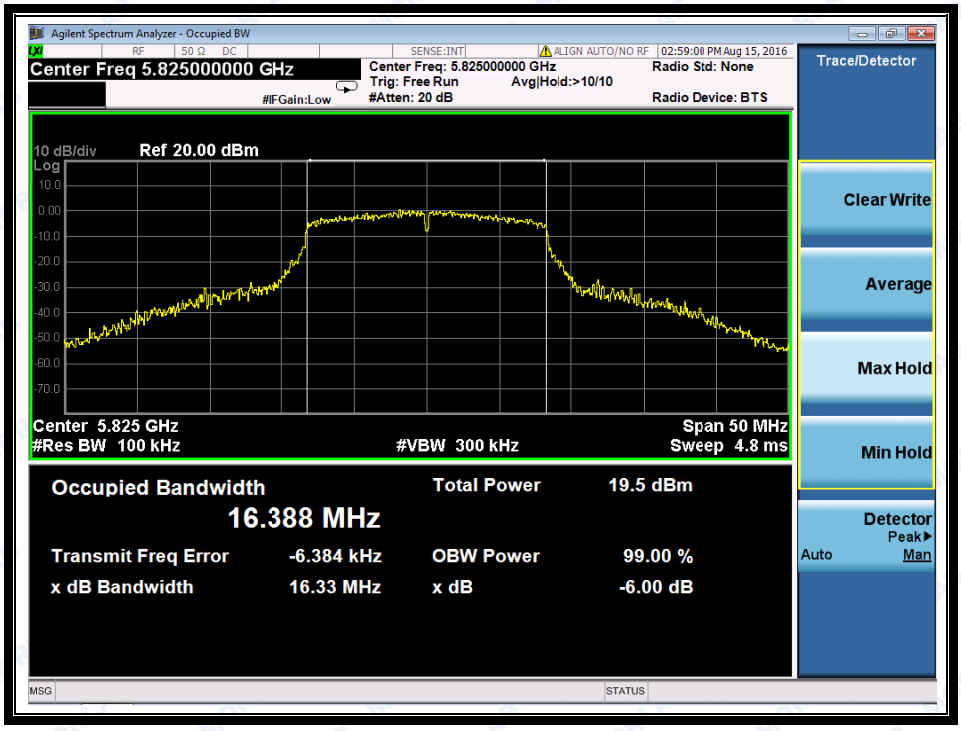


(Channel 140: 5700MHz @ 802.11a)



(Channel 149: 5745MHz @ 802.11a)

(Channel 157: 5785MHz @ 802.11a)



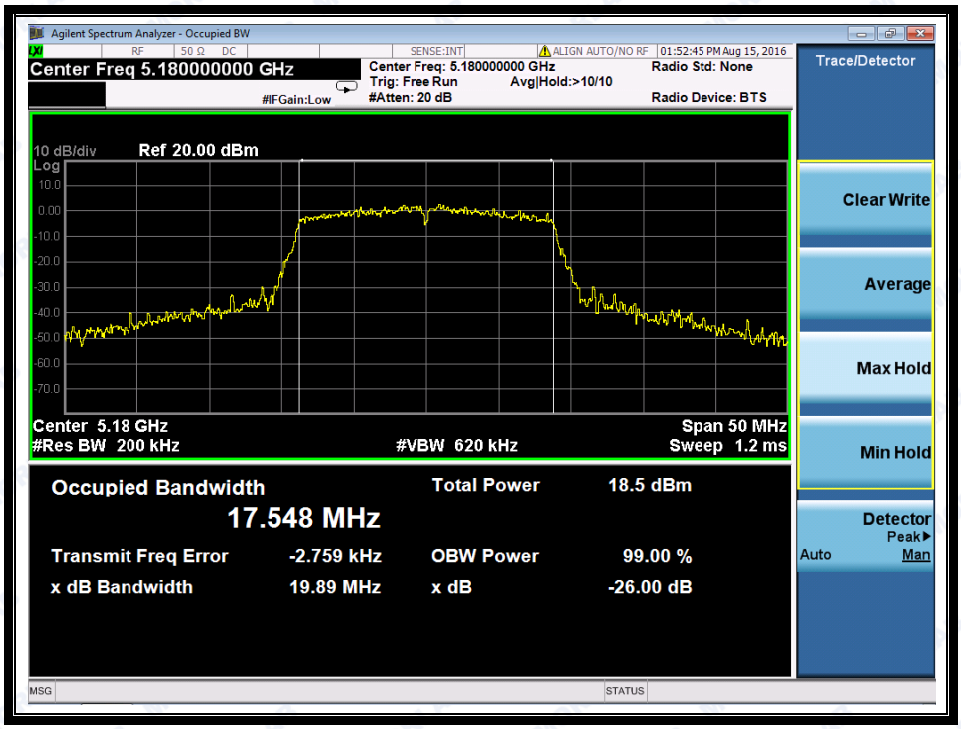
(Channel 165: 5825MHz @ 802.11a)

2.2.3.2 802.11ac-20MHz Test mode

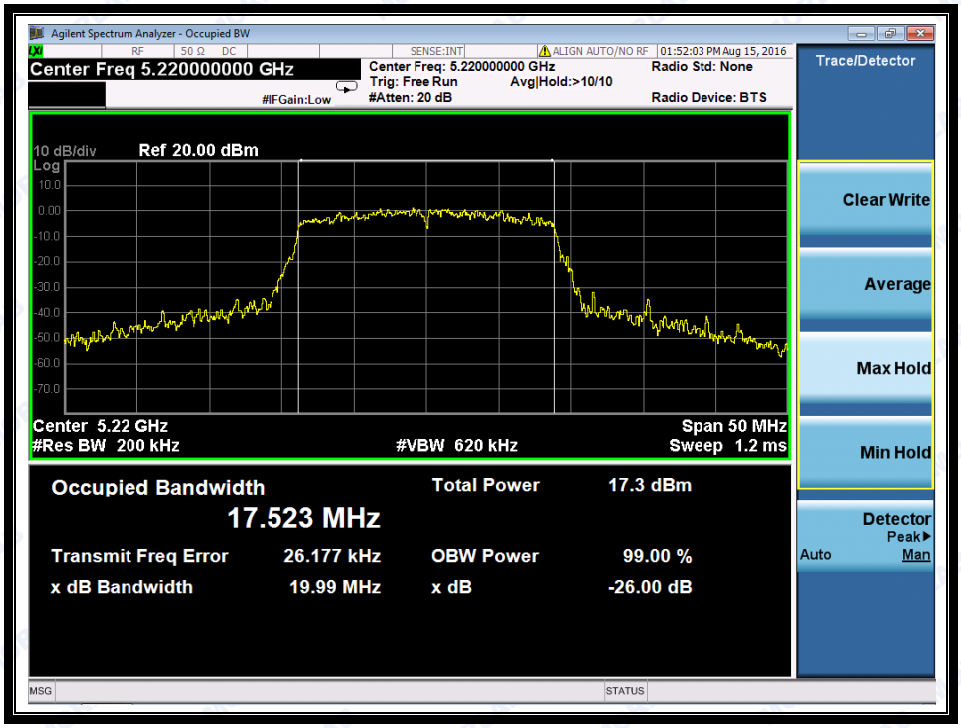
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	19.89
44	5220	19.99
48	5240	19.83
52	5260	20.03
60	5300	19.87
64	5320	19.84
100	5500	20.19
116	5580	20.24
140	5700	26.99
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
149	5745	17.54
157	5785	17.62
165	5825	17.64

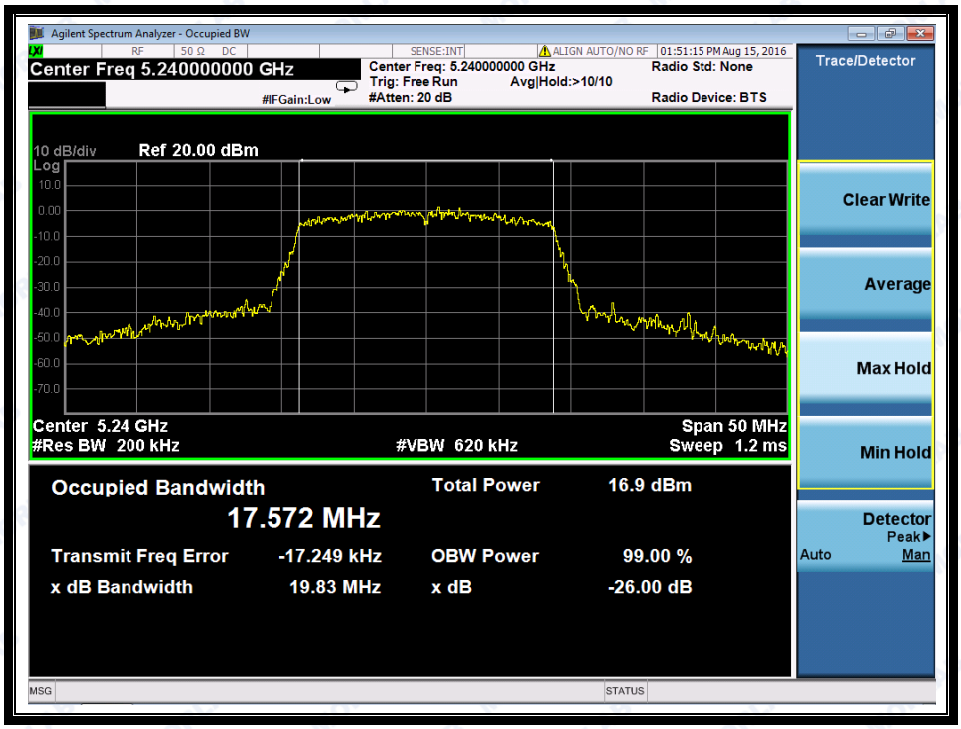
B. Test Plots



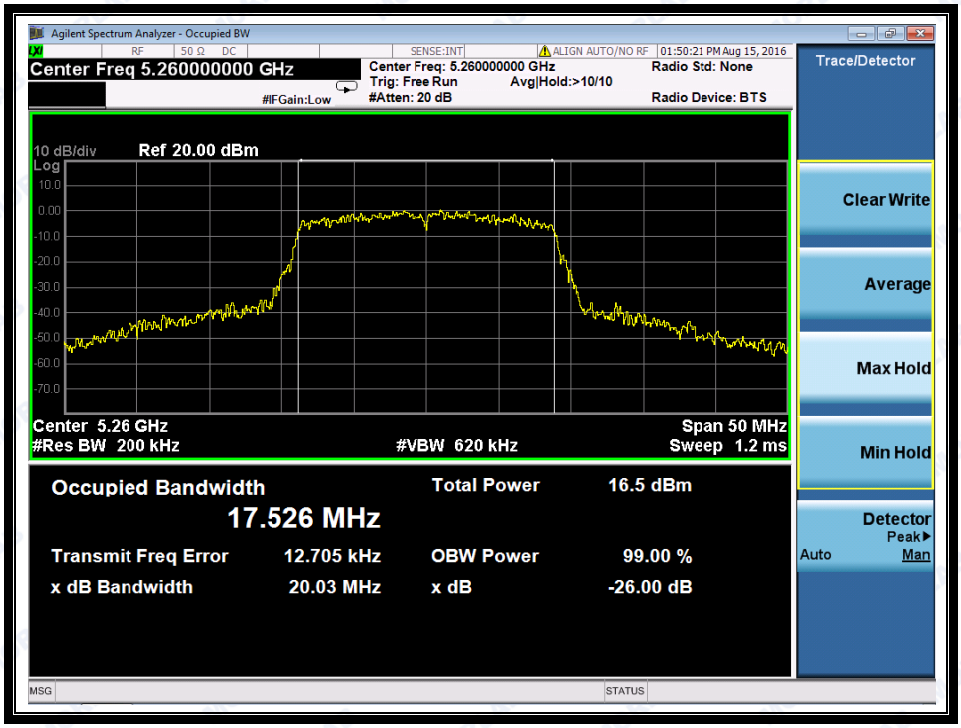
(Channel 36: 5180MHz @ 802.11ac)



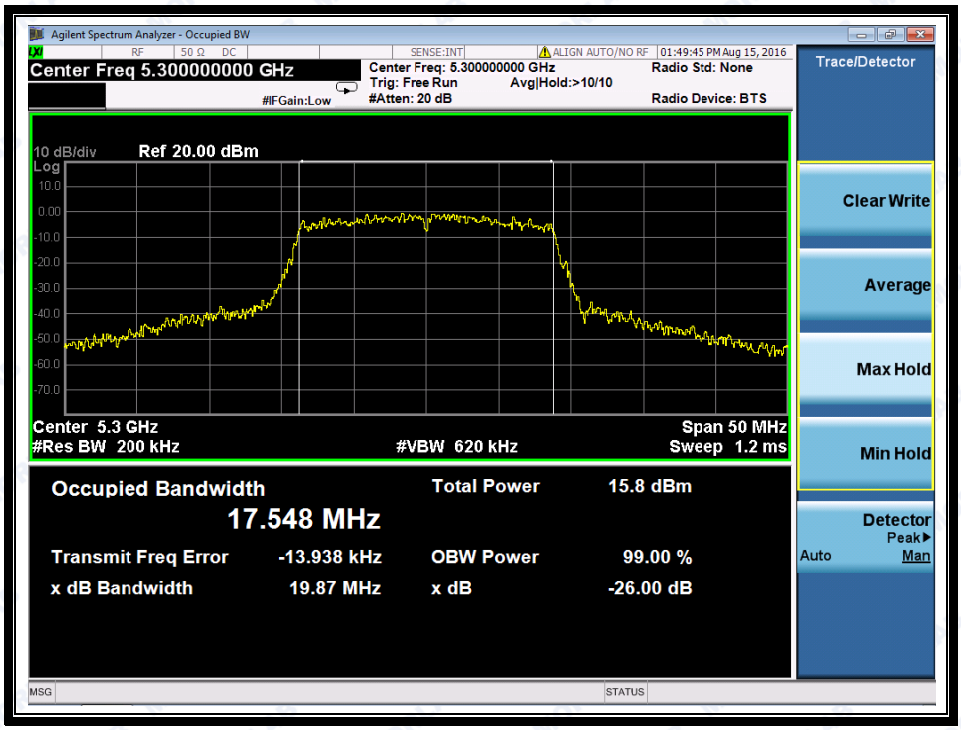
(Channel 44: 5220 MHz @ 802.11ac)



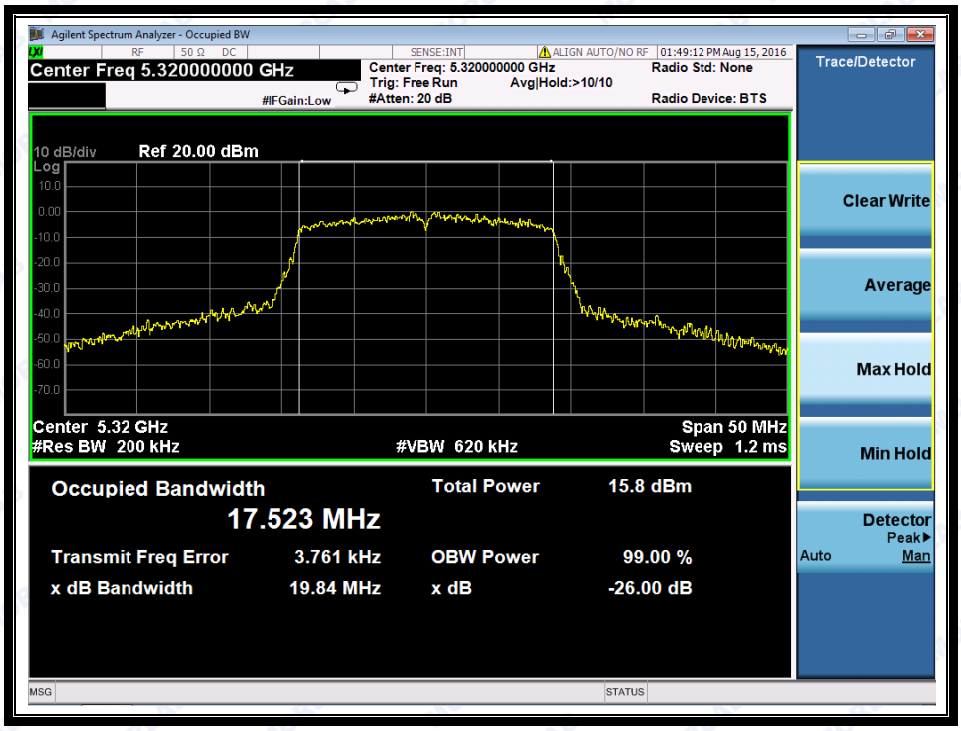
(Channel 48: 5240MHz @ 802.11ac)



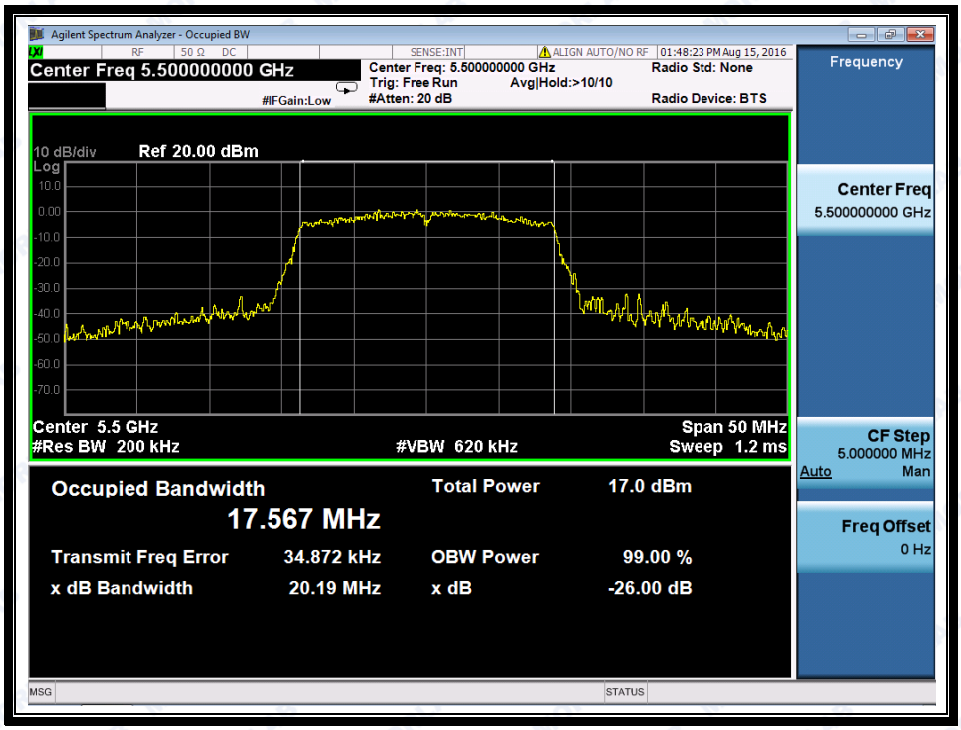
(Channel 52: 5260MHz @ 802.11ac)



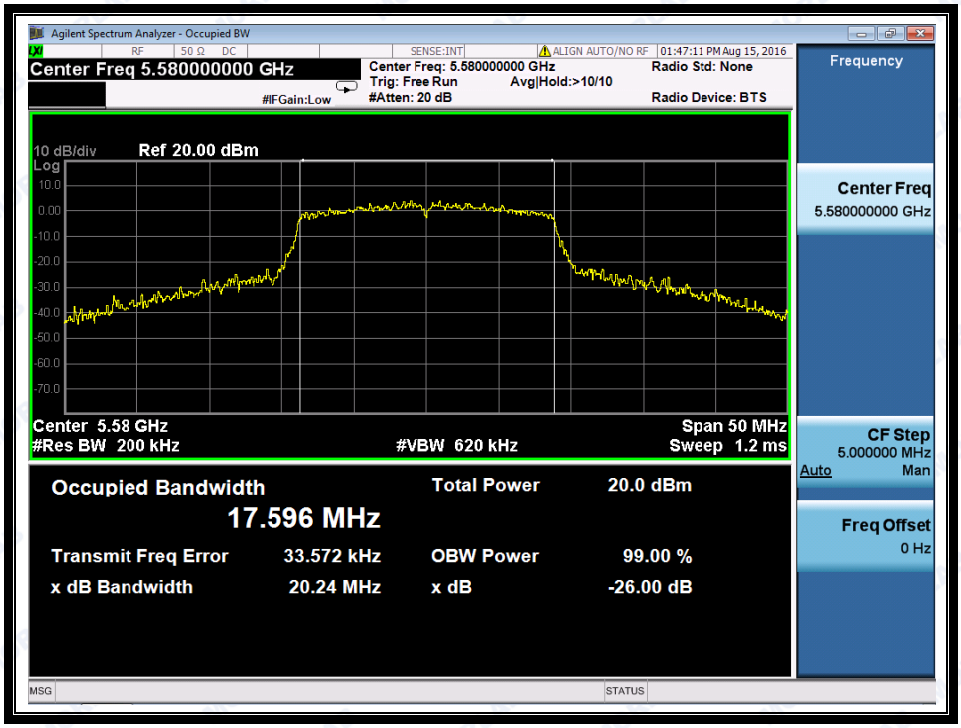
(Channel 60: 5300MHz @ 802.11ac)



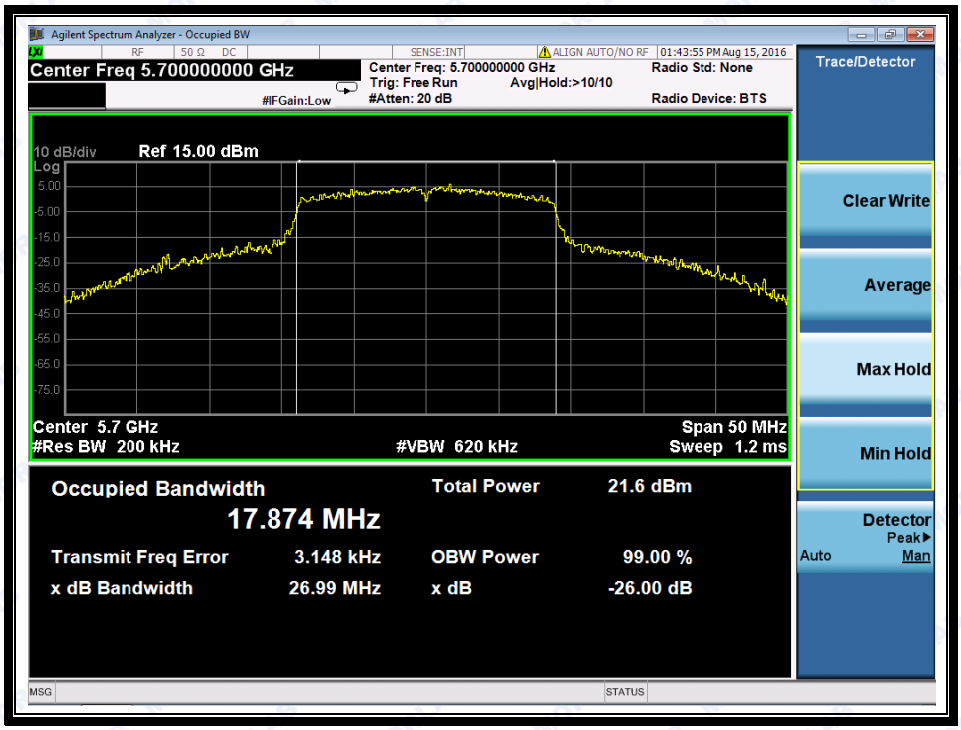
(Channel 64: 5320MHz @ 802.11ac



(Channel 100: 5500MHz @ 802.11ac)

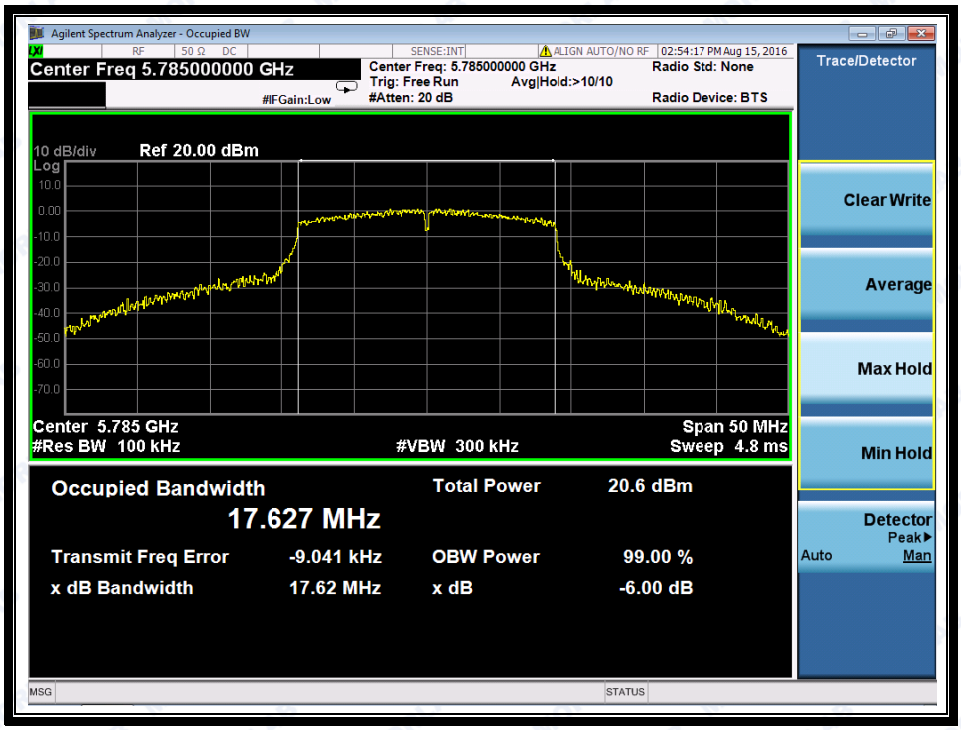


(Channel 116: 5580MHz @ 802.11ac)

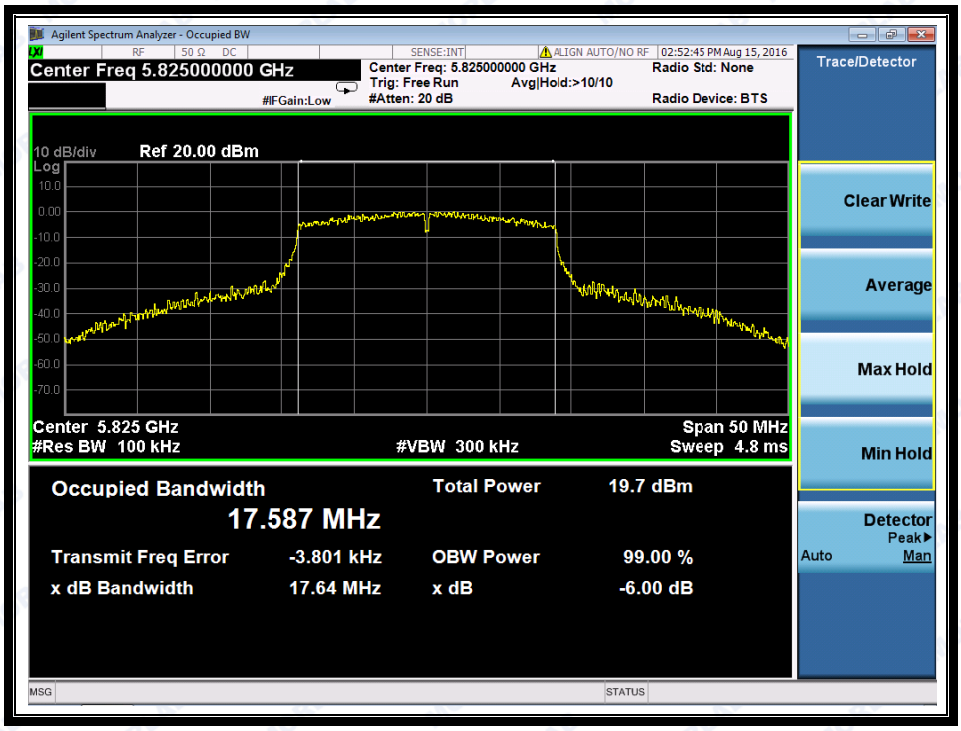


(Channel 140: 5700MHz @ 802.11ac)

(Channel 149: 5745MHz @ 802.11ac)



(Channel 157: 5785MHz @ 802.11ac)



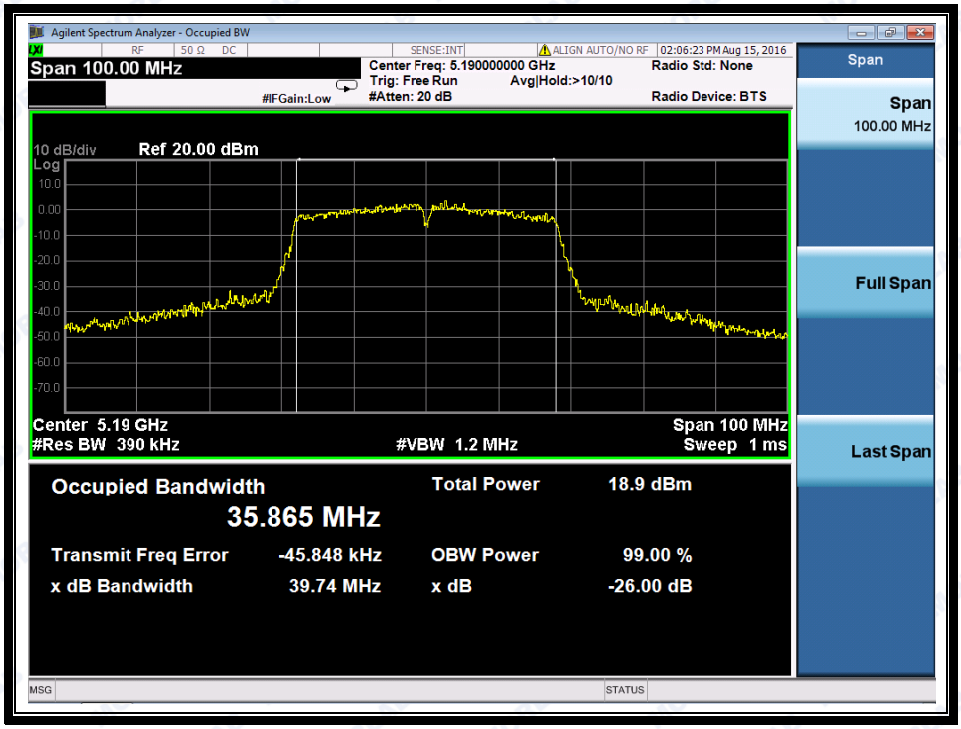
(Channel 165: 5825MHz @ 802.11ac)

2.2.3.3 802.11ac-40MHz Test mode

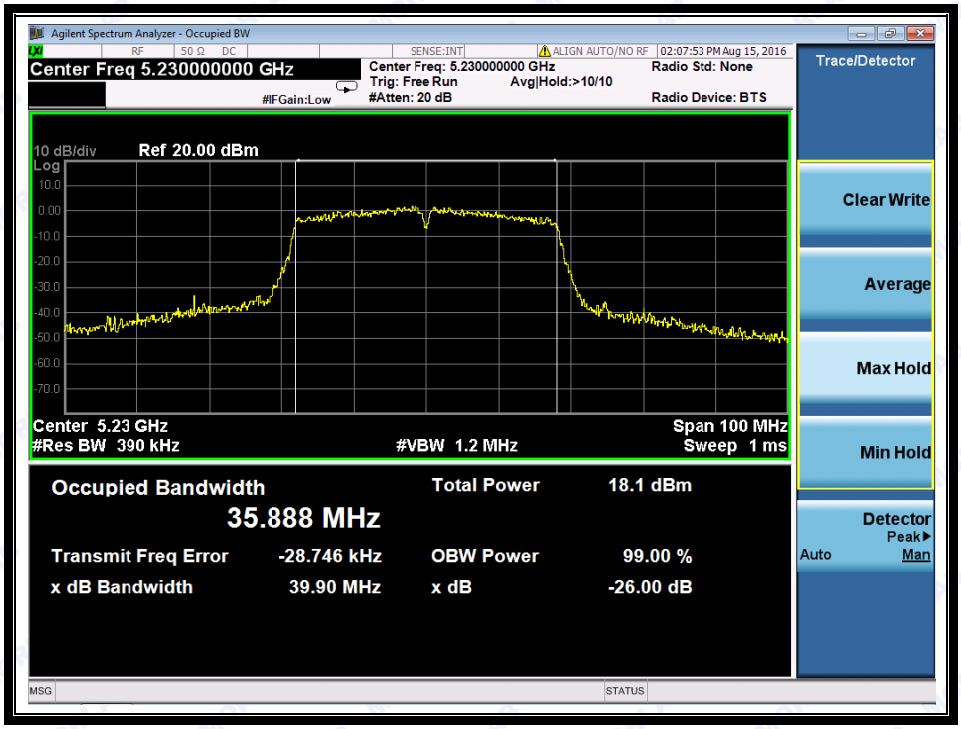
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
38	5190	39.74
46	5230	39.90
54	5270	40.07
62	5310	39.99
102	5510	40.25
126	5630	48.24
142	5710	52.31
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
151	5755	36.07
159	5795	35.95

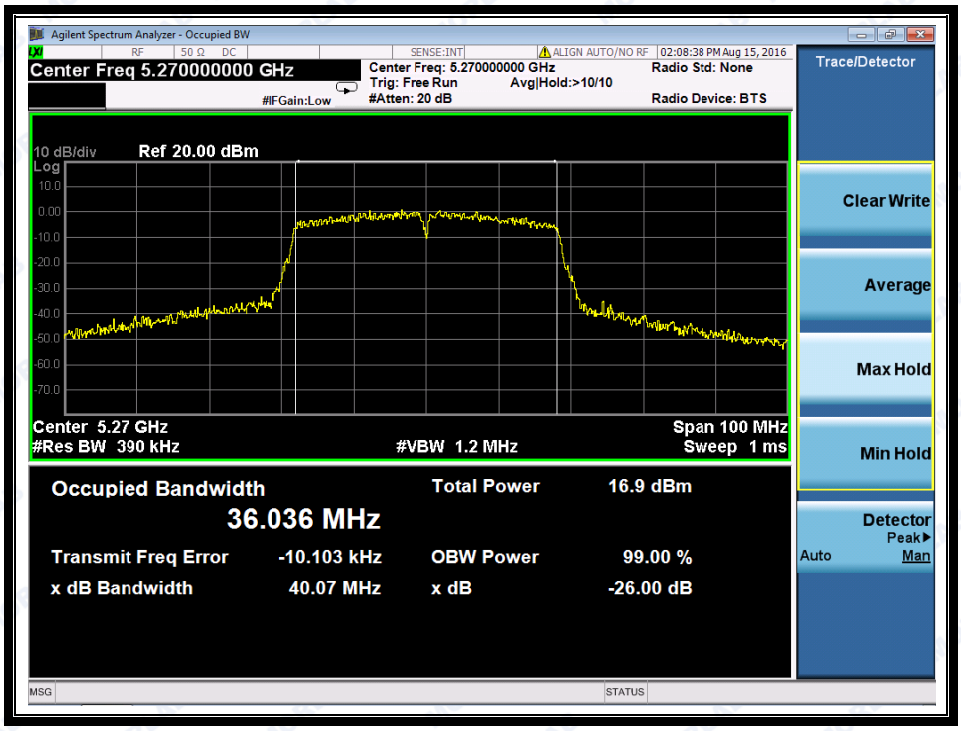
B. Test Plots



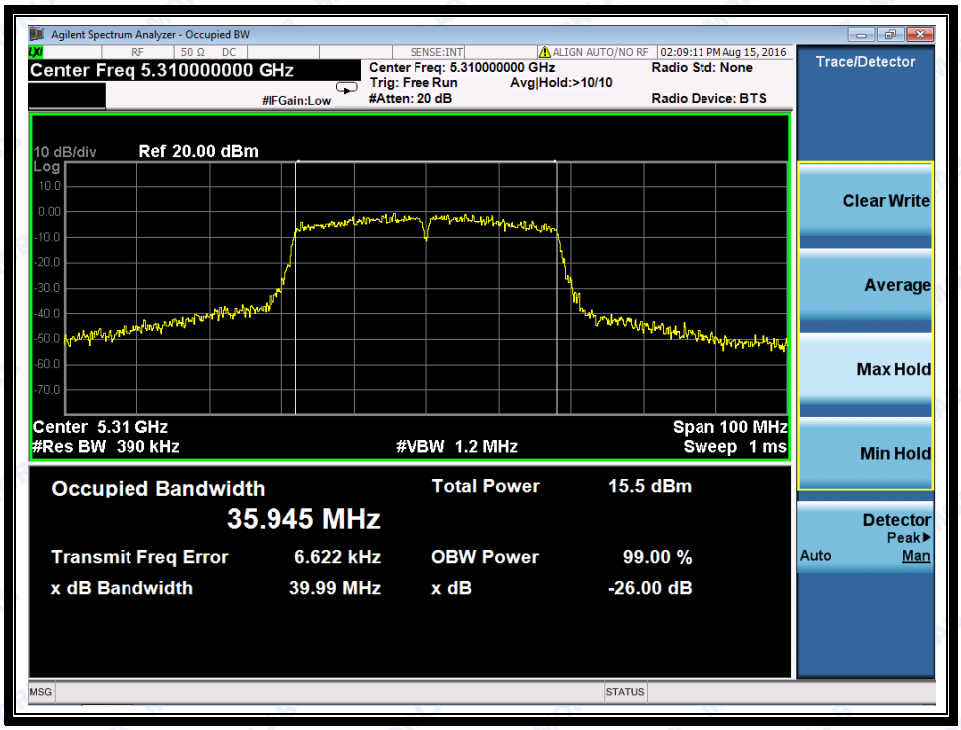
(Channel 38: 5190MHz @ 802.11ac)



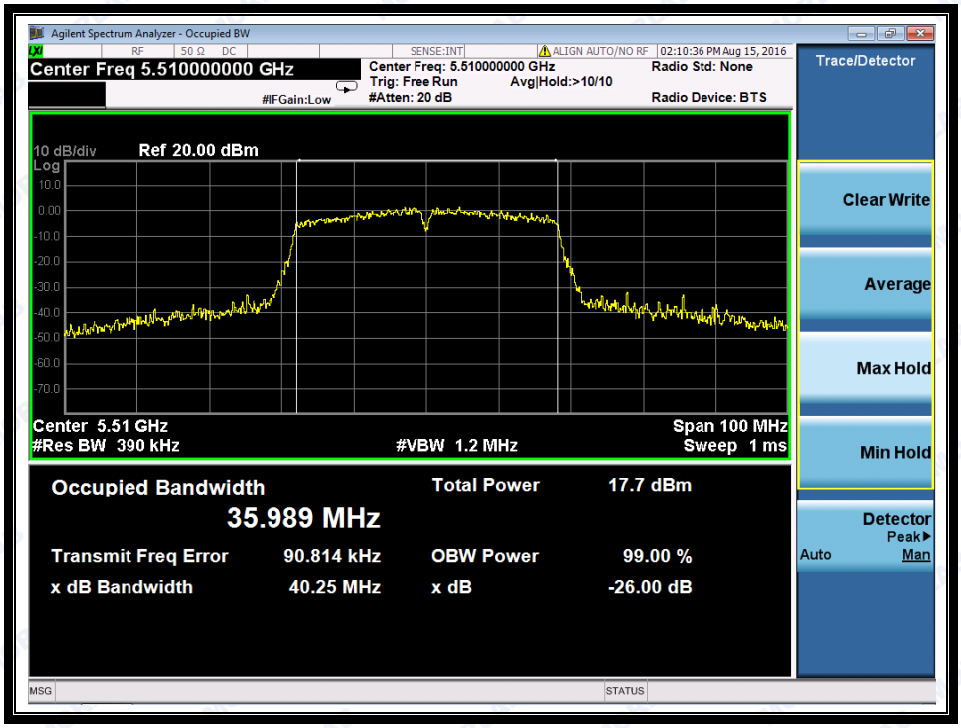
(Channel 46: 5230 MHz @ 802.11ac)



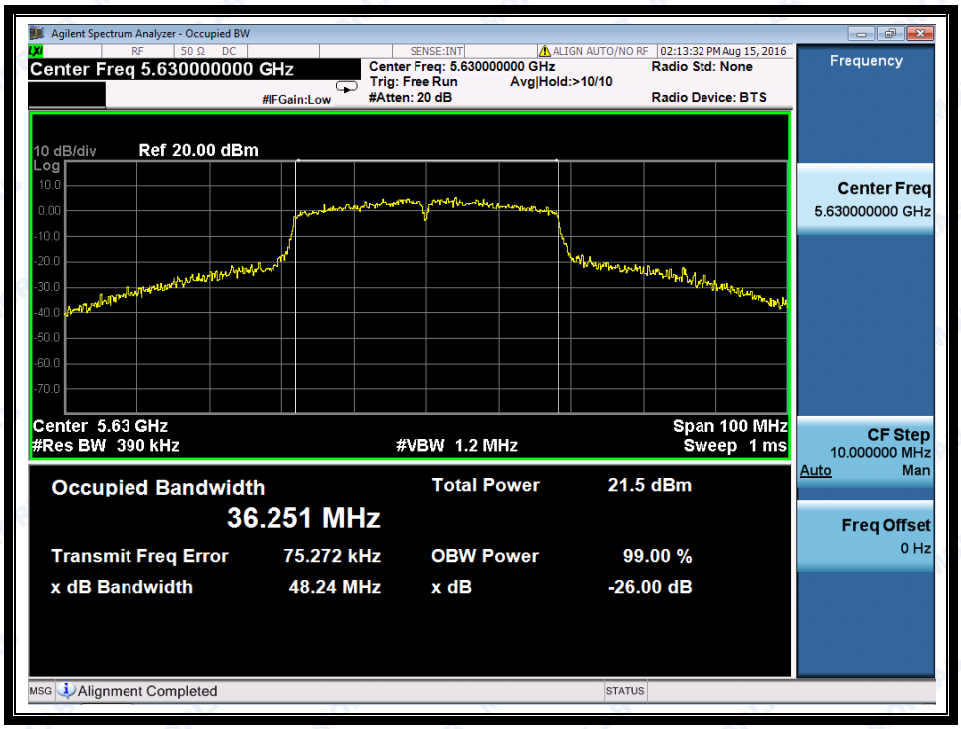
(Channel 54: 5270MHz @ 802.11ac)



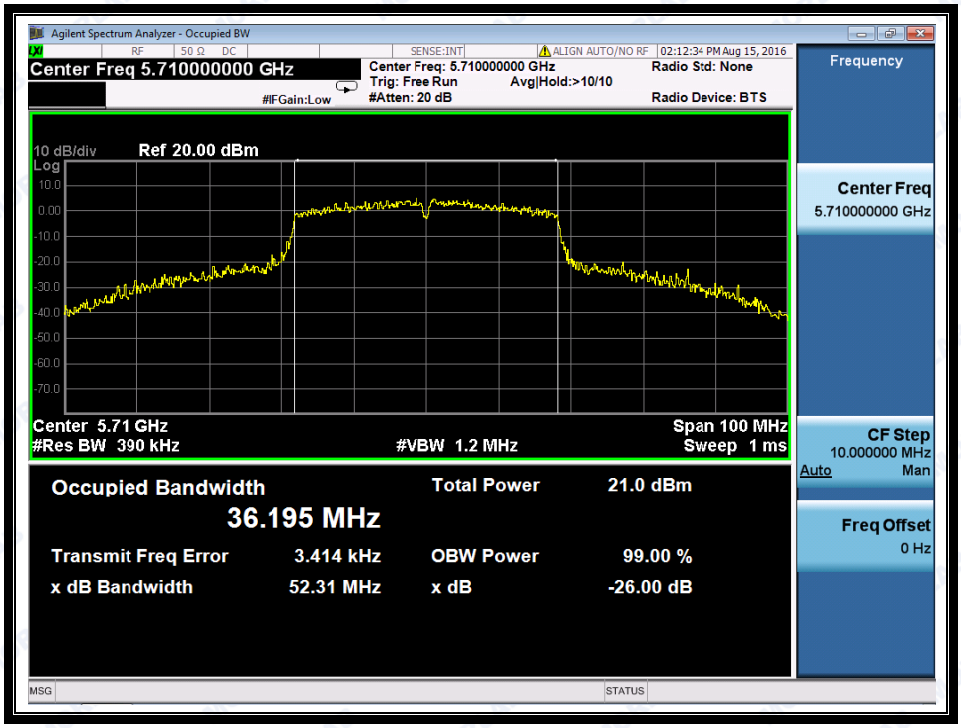
(Channel 62: 5310MHz @ 802.11ac)



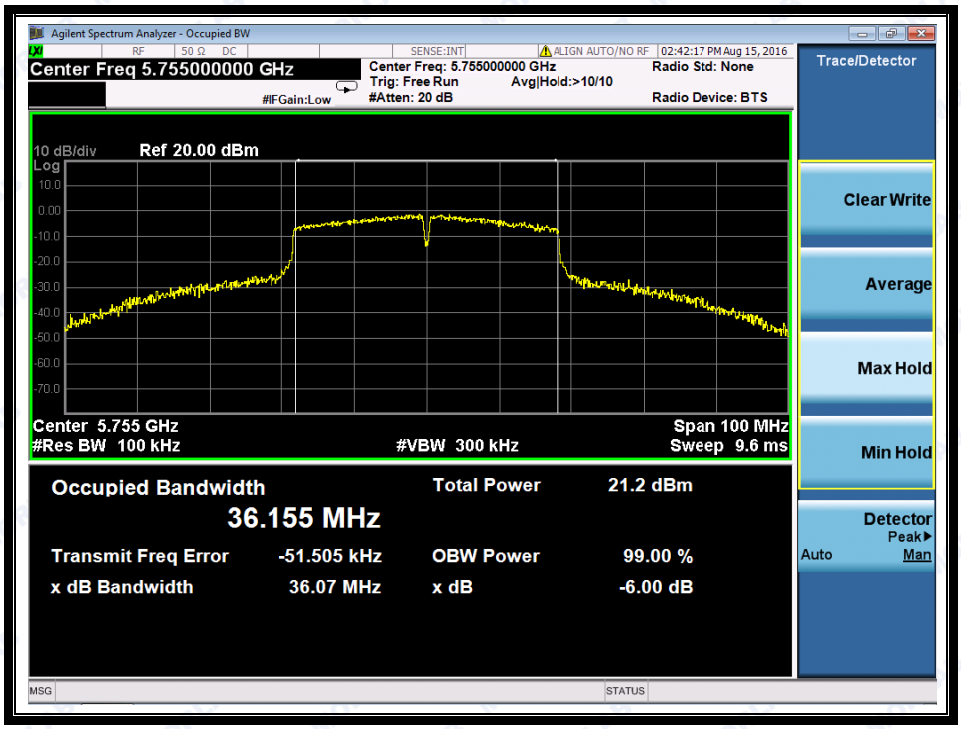
(Channel 102: 5510MHz @ 802.11ac)



(Channel 126: 5630MHz @ 802.11ac)



(Channel 142: 5710MHz @ 802.11ac)



(Channel 151: 5755MHz @ 802.11ac)

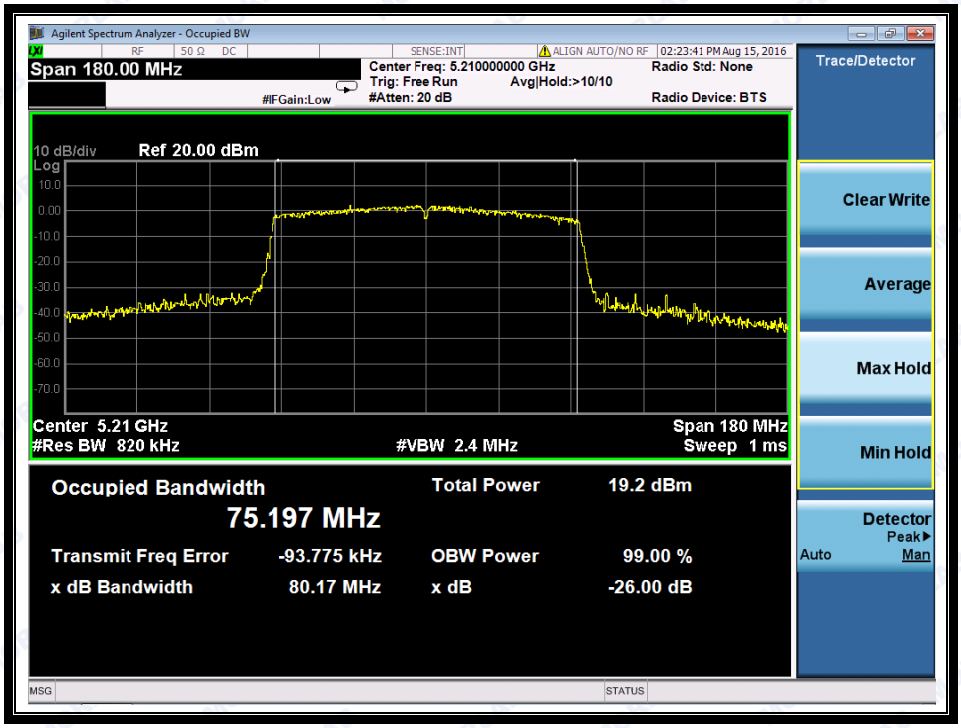
(Channel 159: 5795MHz @ 802.11ac)

2.2.3.4 802.11ac-80MHz Test mode

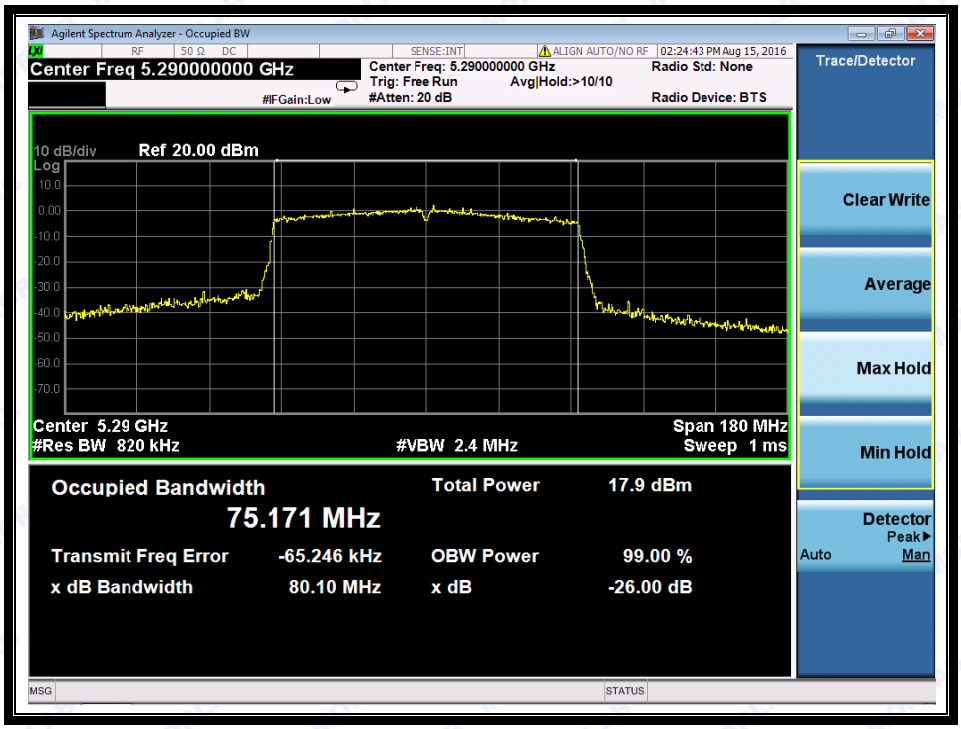
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
42	5210	80.17
58	5290	80.10
106	5530	80.13
122	5610	111.5
138	5690	130.6
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
155	5775	103.1

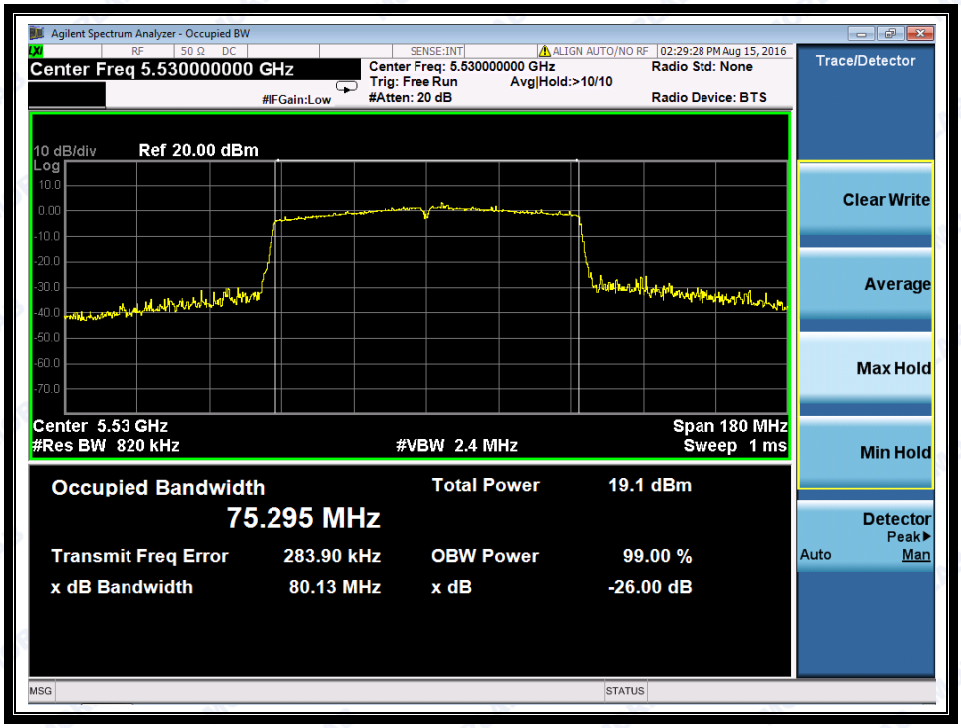
B. Test Plots



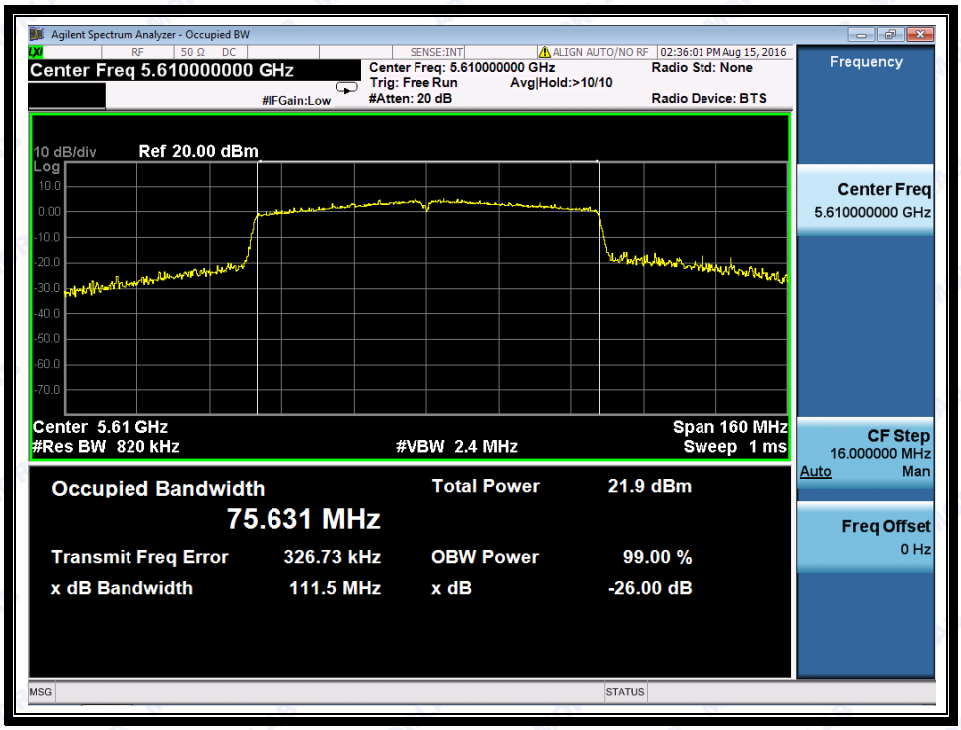
(Channel 42: 5210MHz @ 802.11ac)



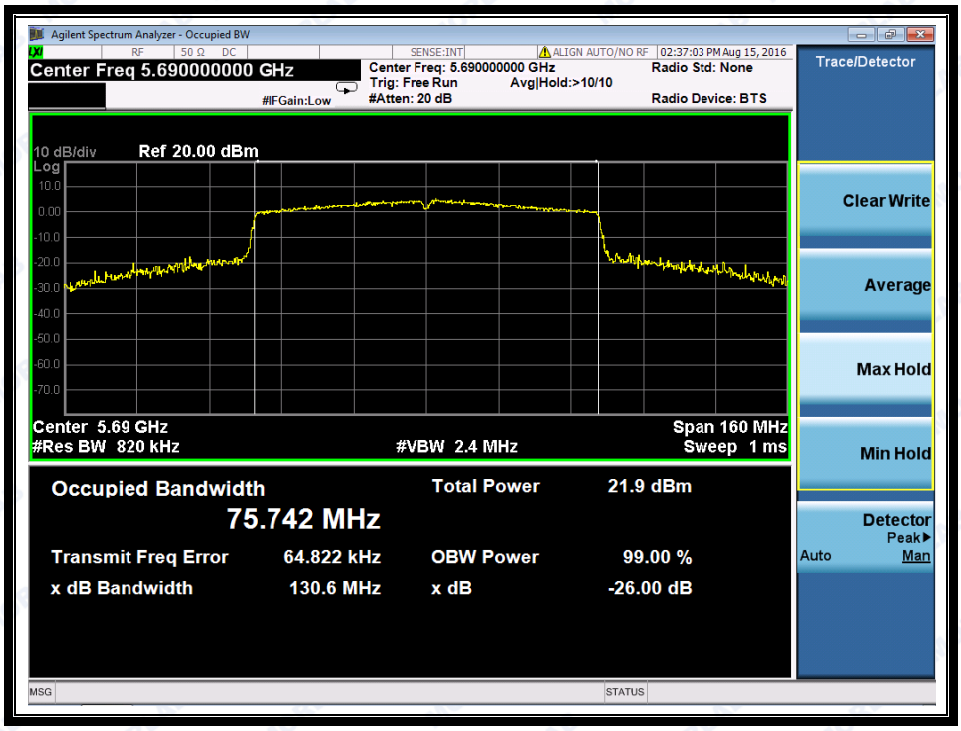
(Channel 58: 5290MHz @ 802.11ac)



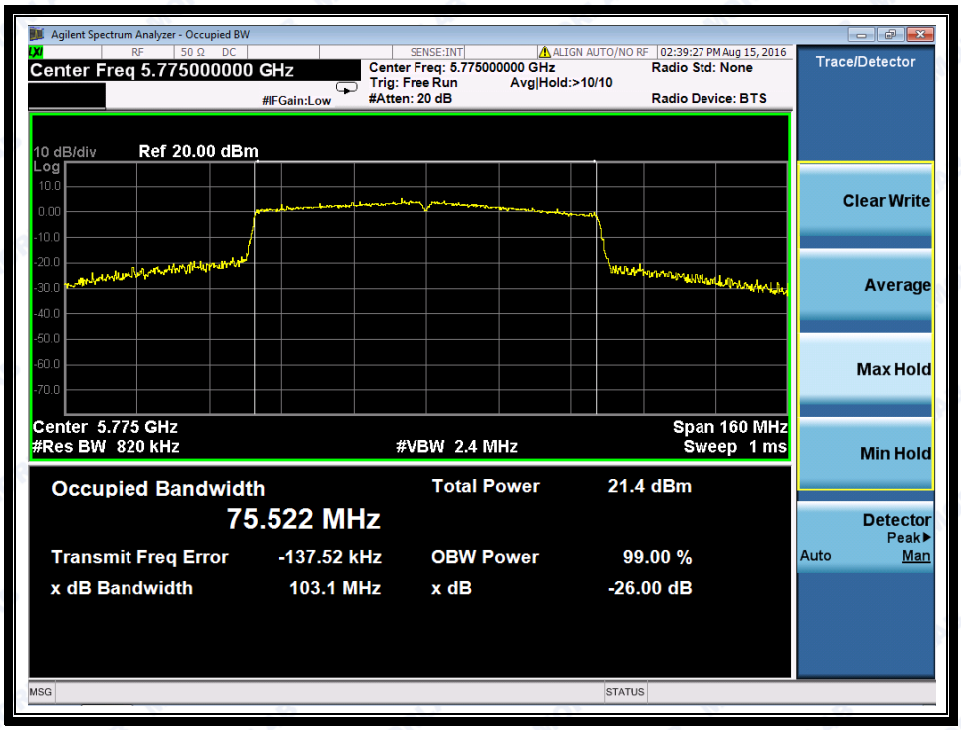
(Channel 106: 5530MHz @ 802.11ac)



(Channel 122: 5610MHz @ 802.11ac)



(Channel 138: 5690MHz @ 802.11ac)



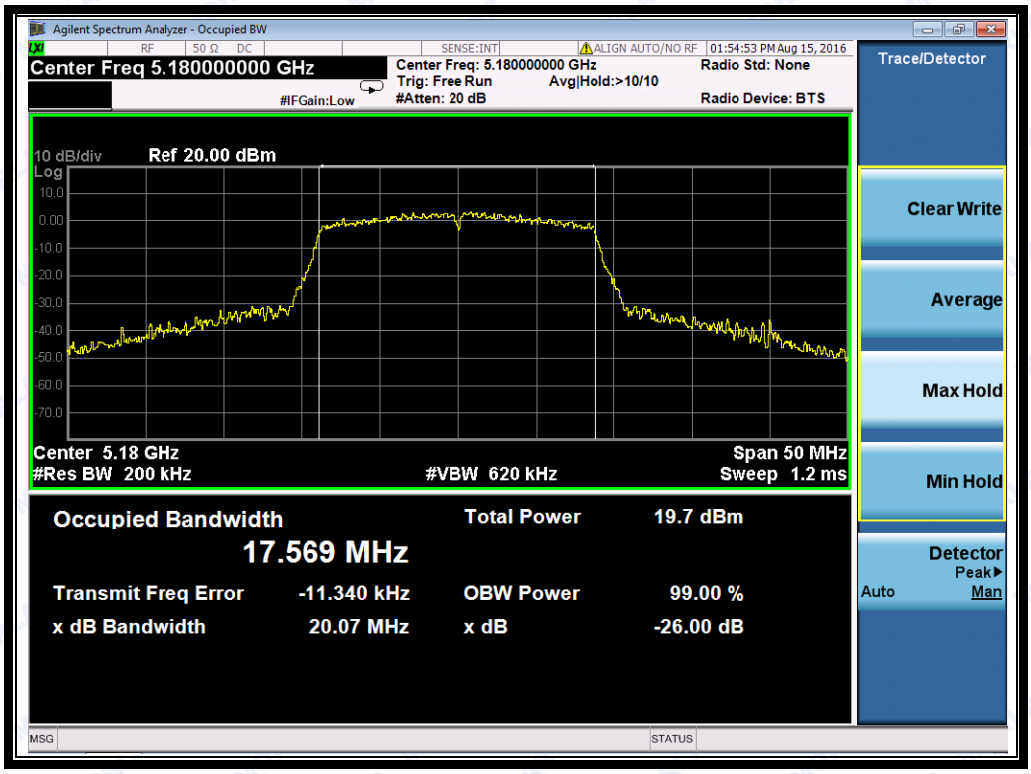
(Channel 155: 5775MHz @ 802.11ac)

2.2.3.5 802.11n-20MHz Test mode

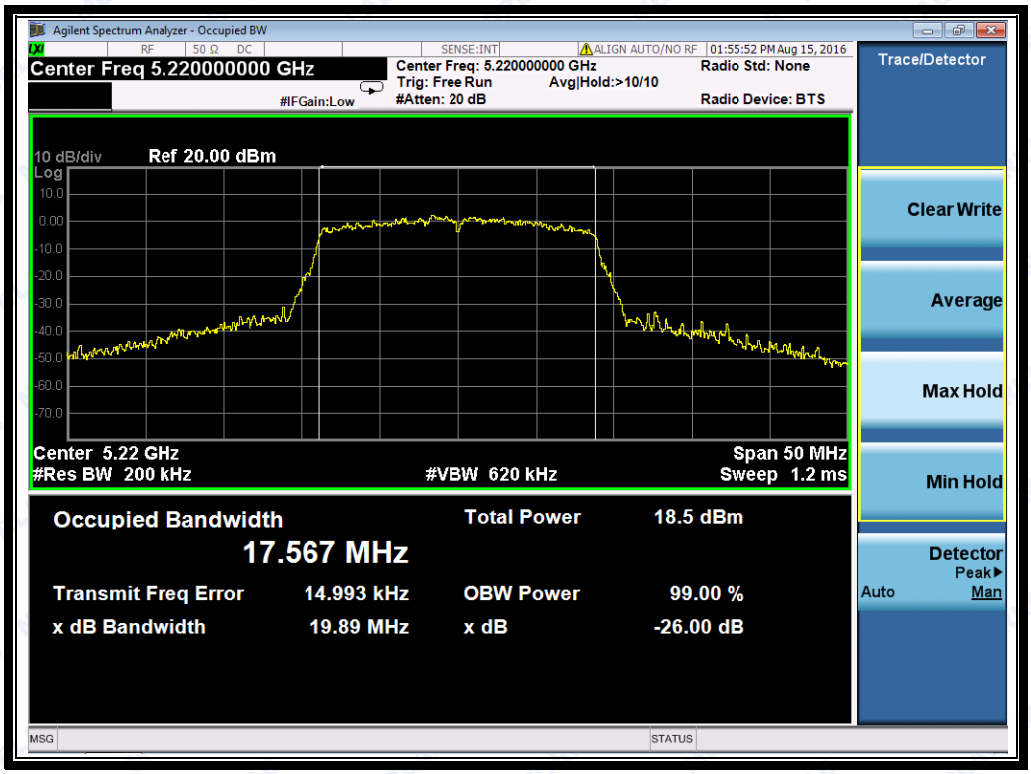
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	20.07
44	5220	19.89
48	5240	20.04
52	5260	19.88
60	5300	20.06
64	5320	19.99
100	5500	19.84
116	5580	20.35
140	5700	19.82
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
149	5745	15.17
157	5785	15.19
165	5825	15.11

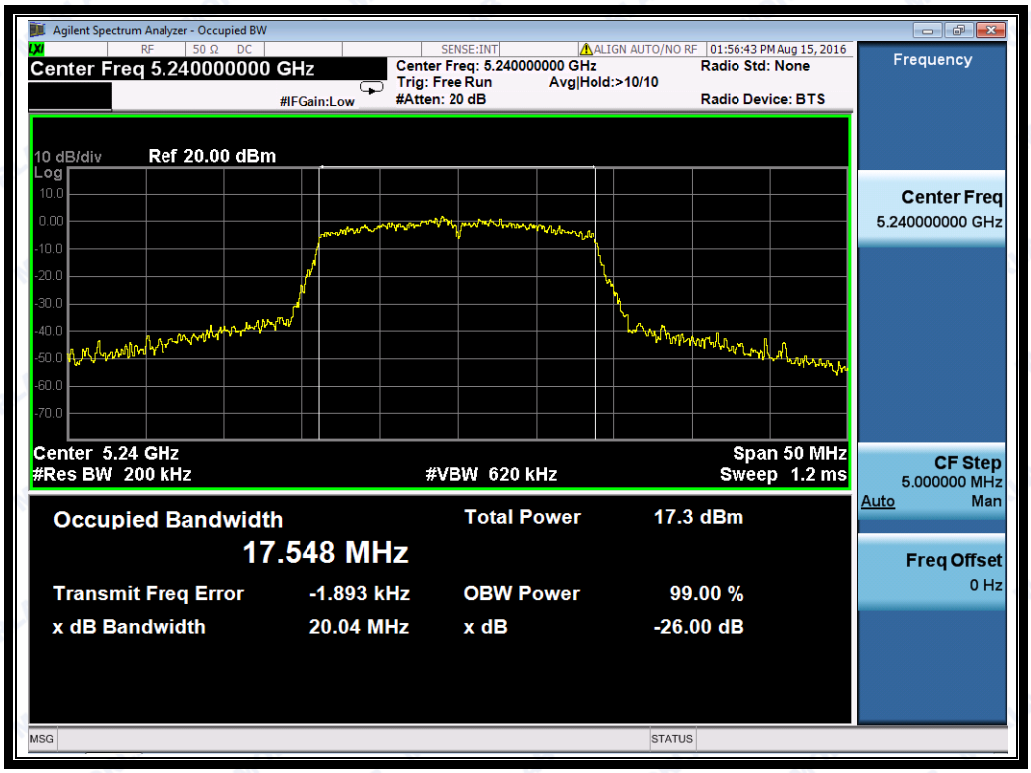
B. Test Plots



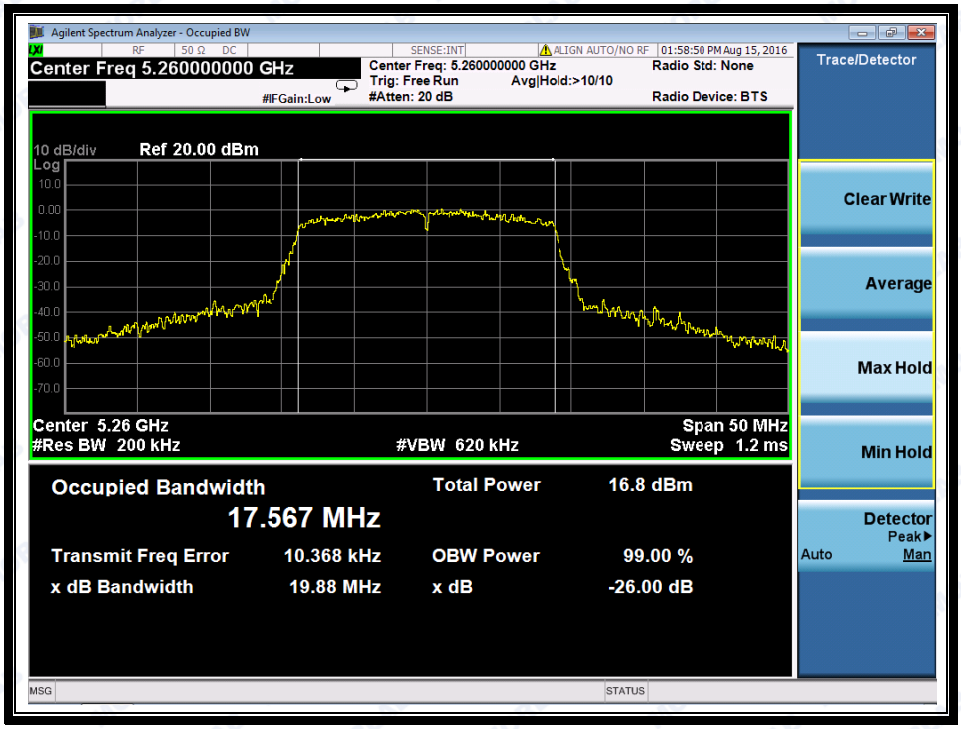
(Channel 36: 5180MHz @ 802.11n-20MHz)



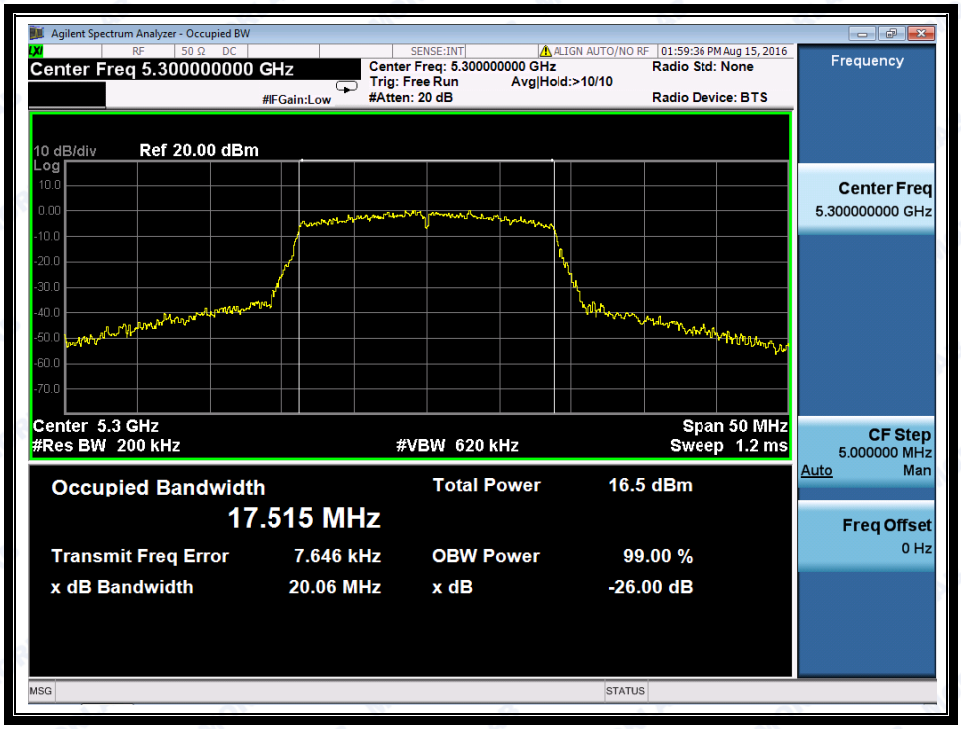
(Channel 44: 5220 MHz @ 802.11n-20MHz)



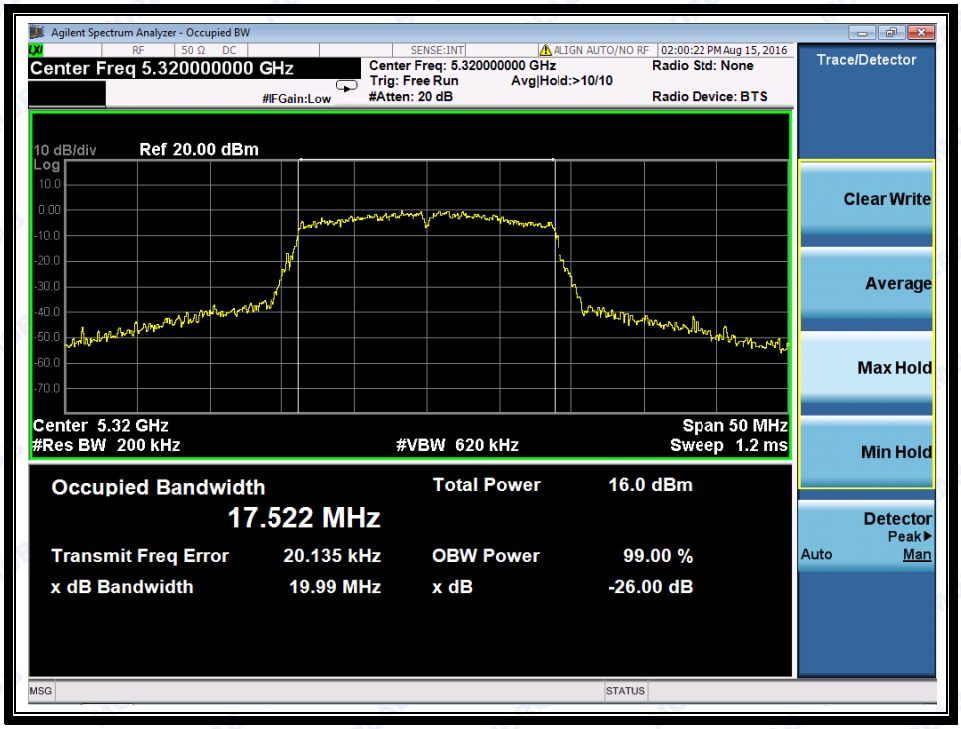
(Channel 48: 5240MHz @ 802.11n-20MHz)



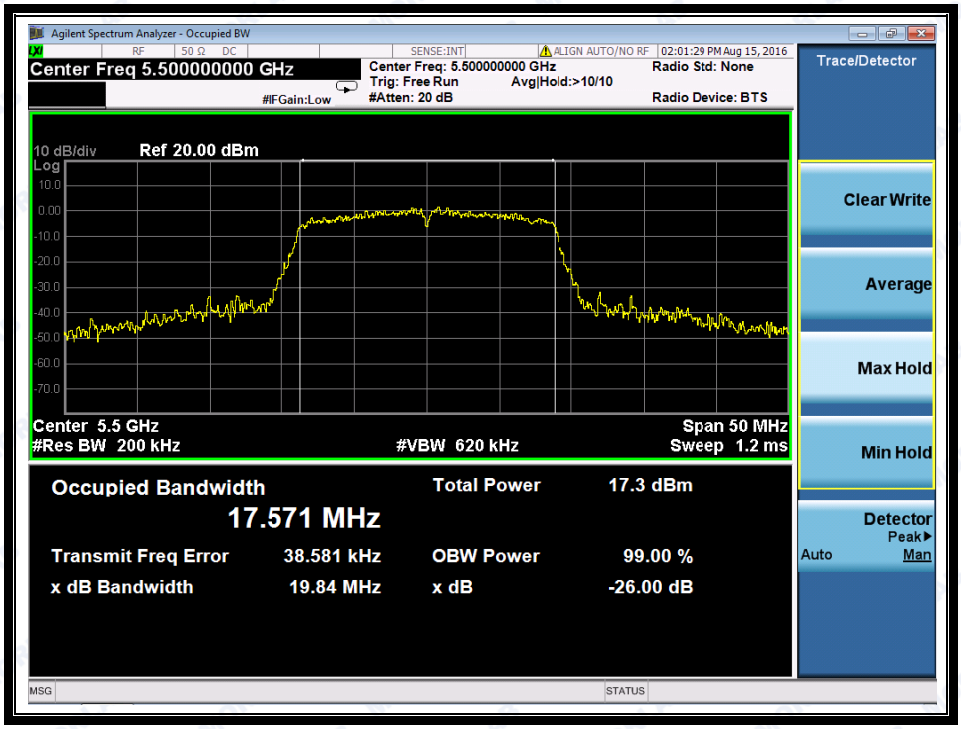
(Channel 52: 5260MHz @ 802.11n-20MHz)



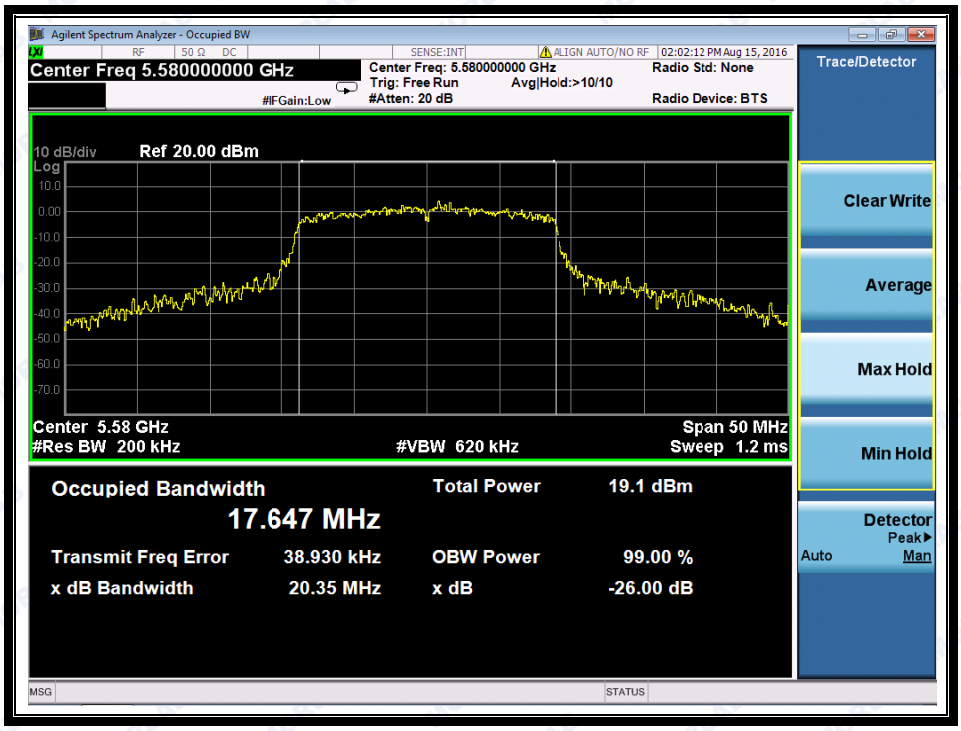
(Channel 60: 5300MHz @ 802.11n-20MHz)



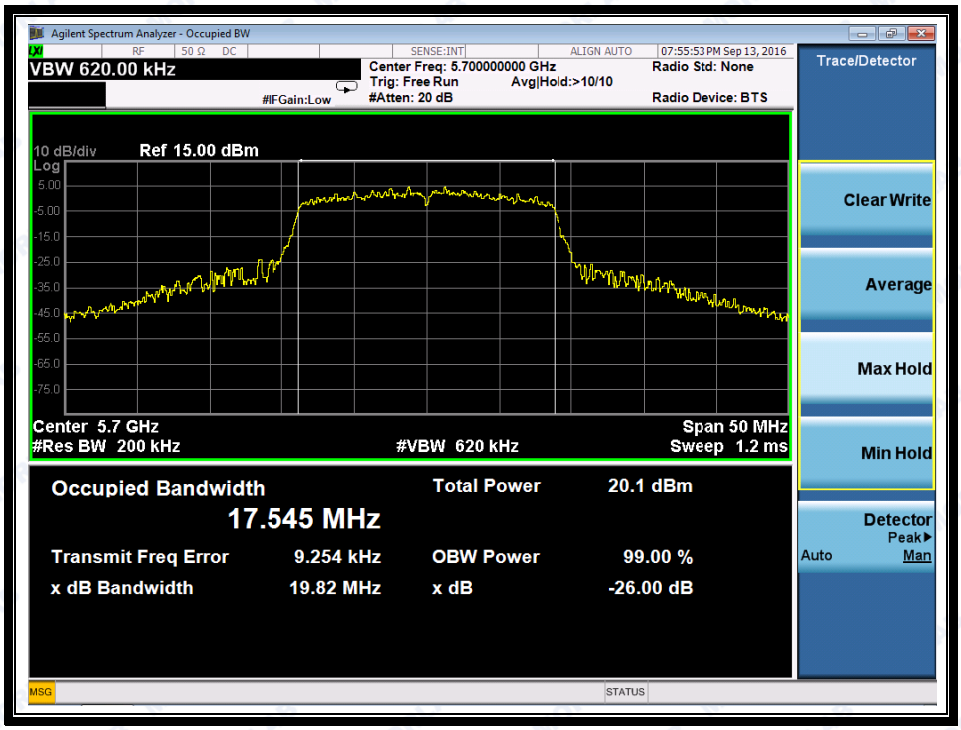
(Channel 64: 5320MHz @ 802.11n-20MHz)



(Channel 100: 5500MHz @ 802.11n-20MHz)

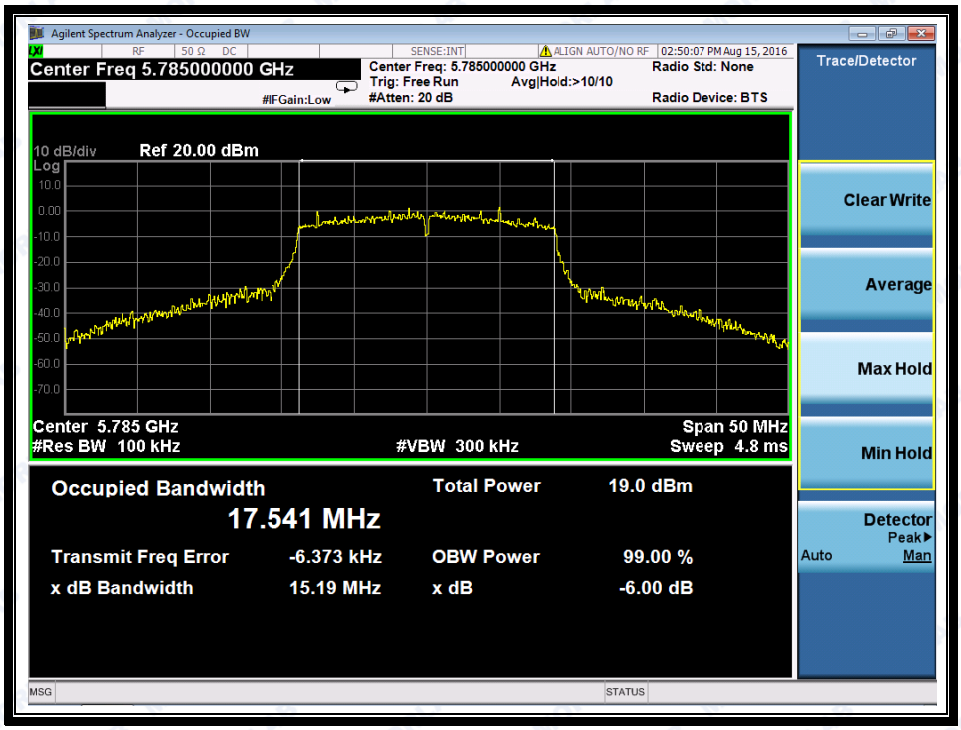


(Channel 116: 5580MHz @ 802.11n-20MHz)

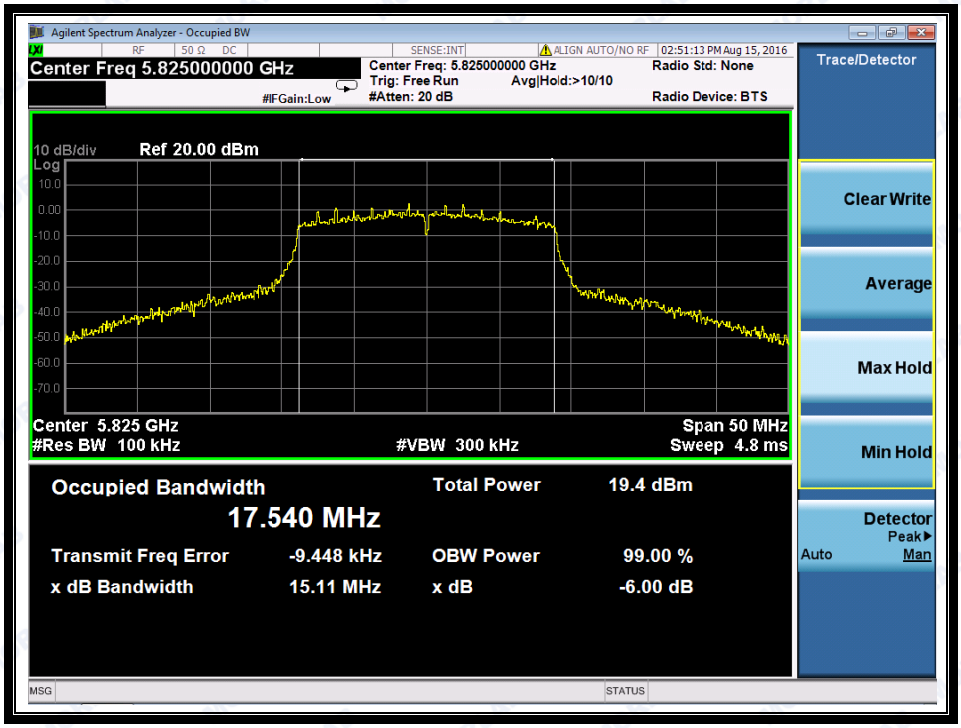


(Channel 140: 5700MHz @ 802.11n-20MHz)

(Channel 149: 5745MHz @ 802.11n-20MHz)



(Channel 157: 5785MHz @802.11n-20MHz)



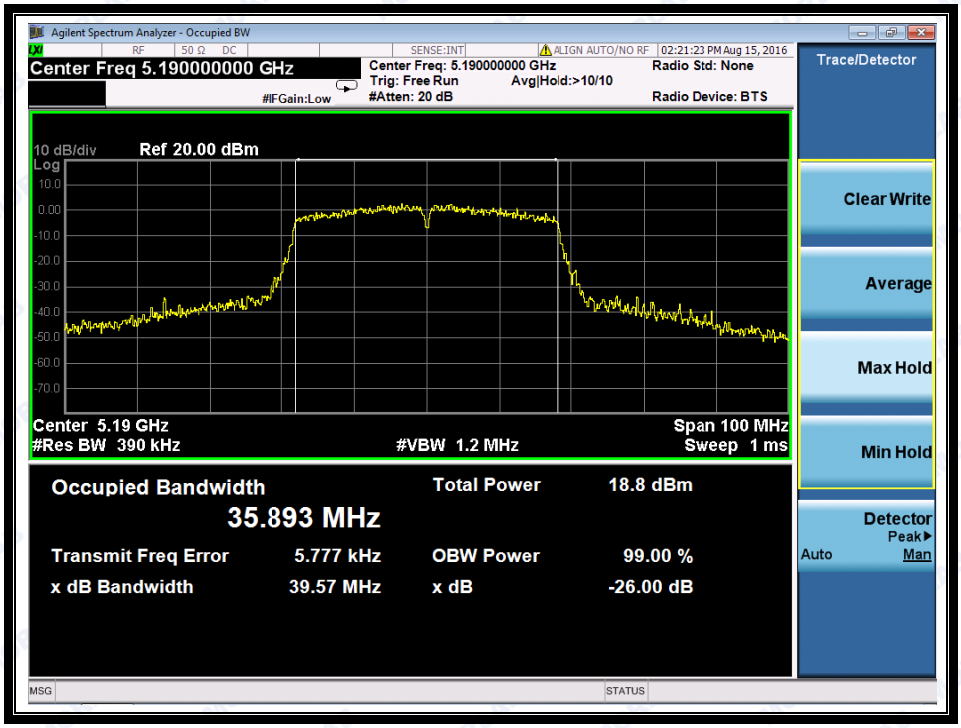
(Channel 165: 5825MHz @ 802.11n-20MHz)

2.2.3.6 802.11n-40MHz Test mode

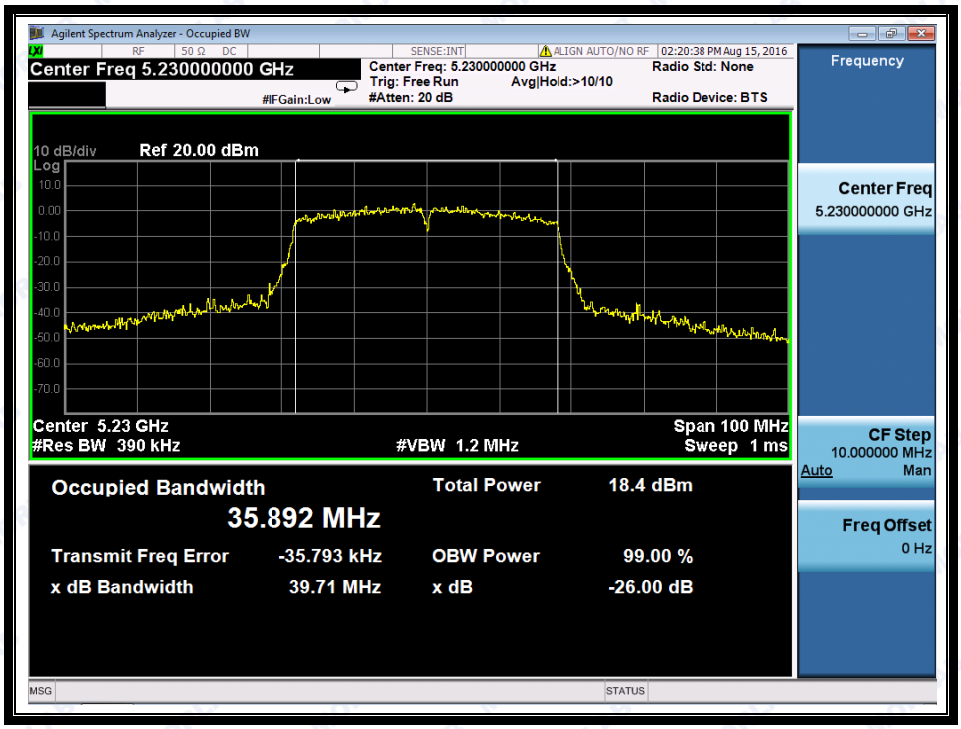
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
38	5190	39.57
46	5230	39.71
54	5270	39.73
62	5310	39.92
102	5510	40.15
126	5630	47.74
142	5670	47.39
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
151	5755	36.12
159	5795	35.72

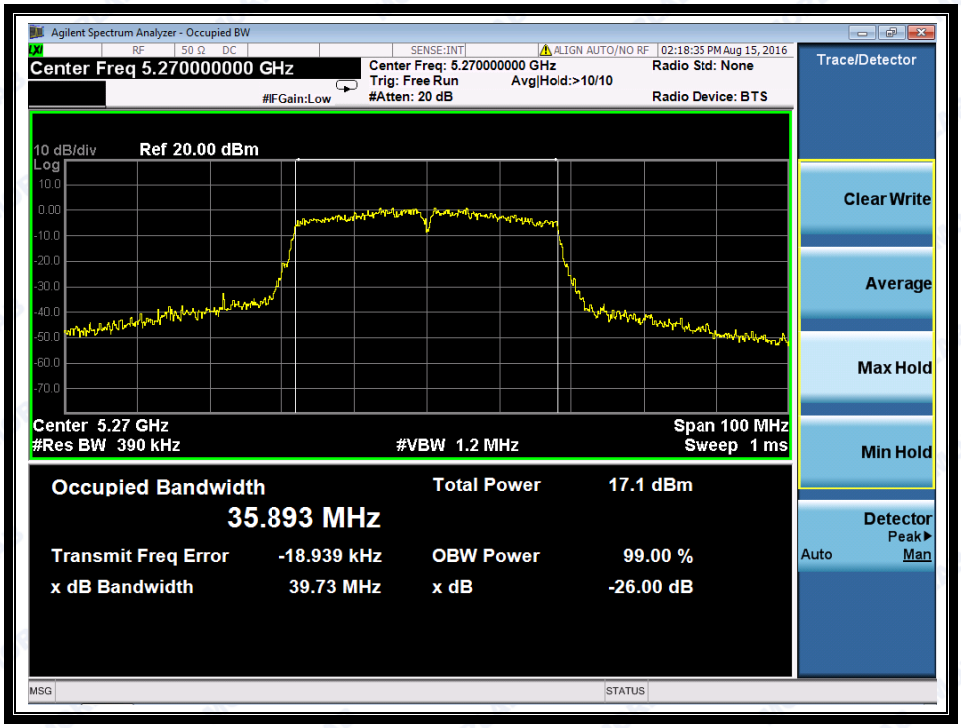
B. Test Plots



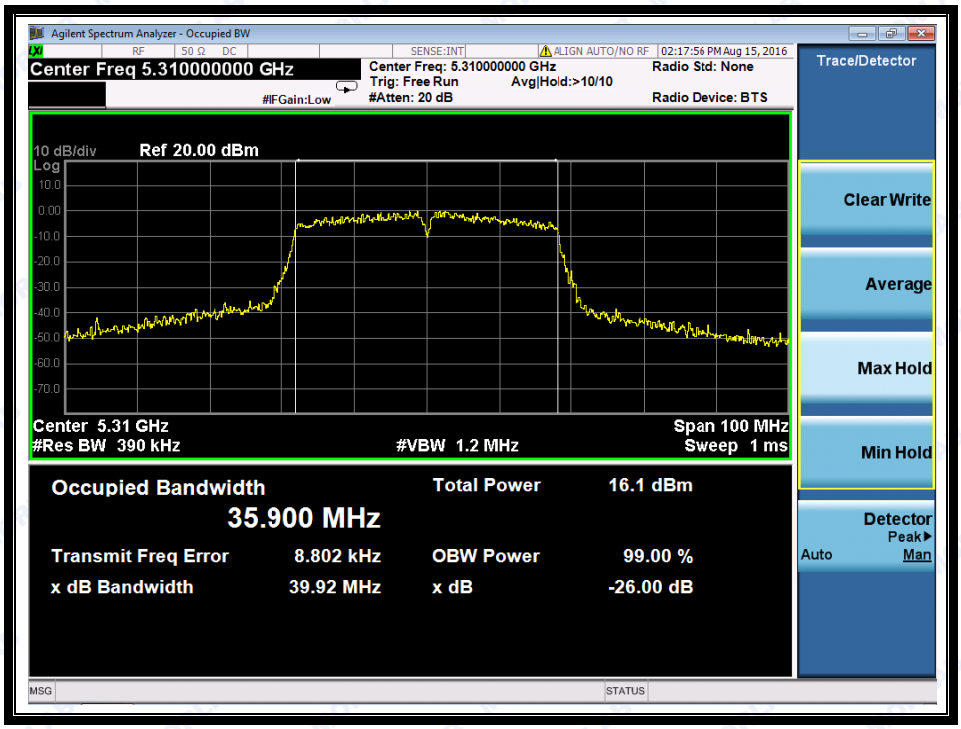
(Channel 38: 5190MHz @ 802.11n-40MHz)



(Channel 46: 5230 MHz @ 802.11n-40MHz)



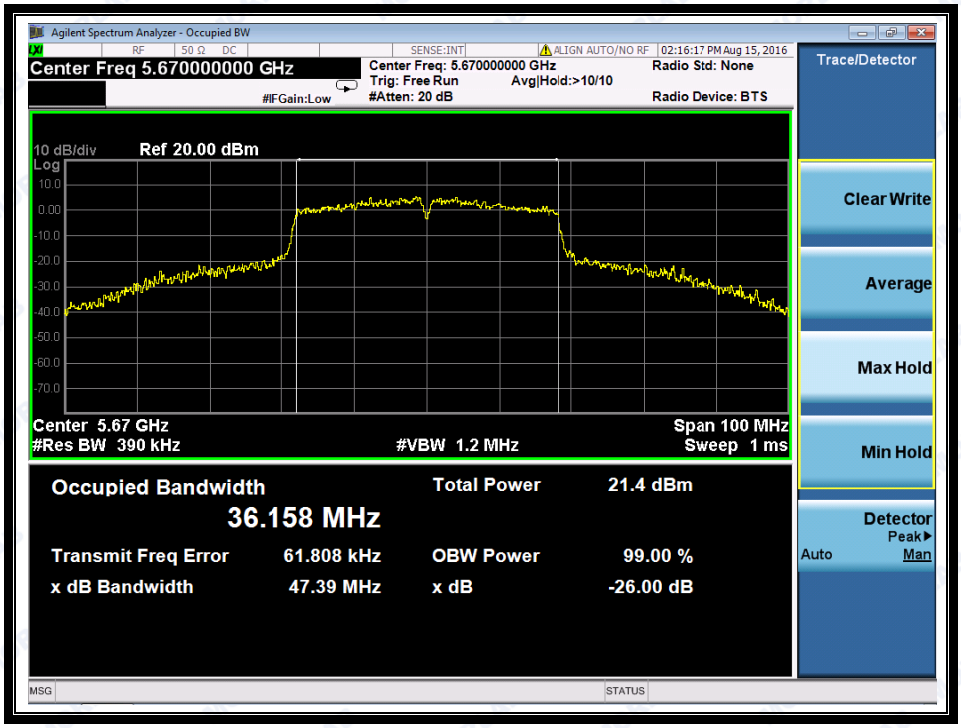
(Channel 54: 5270MHz @802.11n-40MHz)



(Channel 62: 5310MHz @ 802.11n-40MHz)

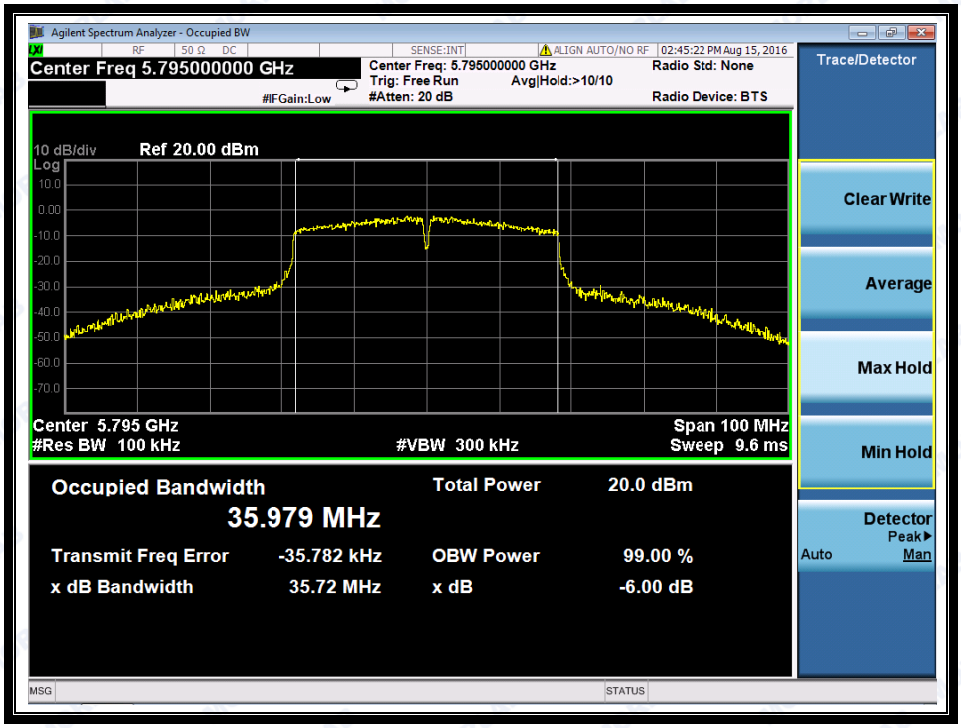
(Channel 102: 5510MHz @802.11n-40MHz)

(Channel 126: 5630MHz @ 802.11n-40MHz)



(Channel 142: 5670MHz @ 802.11n-40MHz)

(Channel 151: 5755MHz @ 802.11n-40MHz)



(Channel 159: 5795MHz @802.11n-40MHz)

2.3 Maximum conducted output Power

2.3.1 Requirement

(1) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

(2) For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or 11dBm + 10log B, where B is the 26 dB emission bandwidth in megahertz.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.3.2 Test Description

Section E) 3) of KDB 789033 defines a methodology using an RF average power meter.

A. Test Setup:

The EUT (Equipment under the test) which is powered by the Battery is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in power meter.

2.3.3 Test Result

2.3.3.1 802.11ac-20MHz Test mode

Channel	Frequency (MHz)	Measured Output Power(dBm)	Limit (dBm)	Verdict
36	5180	18.65	24	PASS
44	5220	19.05		
48	5240	19.75		
52	5260	19.98		
60	5300	20.86		
64	5320	21.11		
100	5500	21.43		
116	5600	21.47		
140	5700	20.96		
149	5745	21.18	30	
157	5785	21.35		
165	5825	20.79		

2.3.3.2 802.11ac-40MHz Test mode

Channel	Frequency (MHz)	Measured Output Power(dBm)	Limit (dBm)	Verdict
38	5190	17.18	24	PASS
46	5230	18.23		
54	5270	19.05		
62	5310	19.75		
102	5510	20.47		
126	5630	20.36		
142	5710	20.24		
151	5755	20.87	30	
159	5795	20.25		

2.3.3.3 802.11ac-80MHz Test mode

Channel	Frequency (MHz)	Measured Output Power(dBm)	Limit (dBm)	Verdict
42	5210	16.06	24	PASS
58	5290	18.14		
106	5530	19.42		
122	5610	19.08		
138	5690	18.61		
155	5775	19.16	30	

2.3.3.4 802.11n-20MHz Test mode

Channel	Frequency (MHz)	Measured Output Power(dBm)	Limit (dBm)	Verdict
36	5180	18.86	24	PASS
44	5220	19.70		
48	5240	20.05		
52	5260	20.07		
60	5300	20.76		
64	5320	21.03		
100	5500	21.21		
116	5600	21.53		
140	5700	20.92		
149	5745	21.07	30	
157	5785	21.13		
165	5825	20.68		

2.3.3.5 802.11n-40MHz Test mode

Channel	Frequency (MHz)	Measured Output Power(dBm)	Limit (dBm)	Verdict
38	5190	17.18	24	PASS
46	5230	18.23		
54	5270	19.05		
62	5310	19.75		
102	5510	20.47		
126	5630	20.36		
142	5710	20.24		
151	5755	20.87	30	
159	5795	20.25		

2.3.3.6 802.11a Test mode

Channel	Frequency (MHz)	Measured Output Power(dBm)	Limit (dBm)	Verdict
36	5180	19.53	24	PASS
44	5220	19.42		
48	5240	19.87		
52	5260	20.07		
60	5300	20.95		
64	5320	21.54		
100	5500	21.71		
116	5600	21.83		
140	5700	20.95		
149	5745	21.34	30	
157	5785	20.97		
165	5825	20.78		

2.4 Peak Power spectral density

2.4.1 Requirement

(1) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

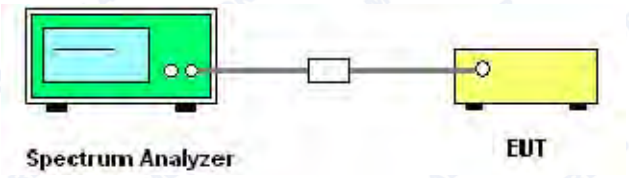
(2) For the 5.25–5.35 GHz and 5.47–5.725GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500KHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

2.4.2 Test Description

A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

B. Test Procedure

KDB 789033 Section F) Maximum Power Spectral Density (PSD) Method SA-1 was used in order to prove compliance

1) Set span to encompass the entire 26-dB emission bandwidth

2) Set RBW = 1 MHz. Set VBW ≥ 3 MHz.

3) Number of points in sweep ≥ 2 Span / RBW. Sweep time = auto.

4) Detector = RMS (i.e., power averaging)

5) Trace average at least 100 traces in power averaging (i.e., RMS) mode

6) Record the max value

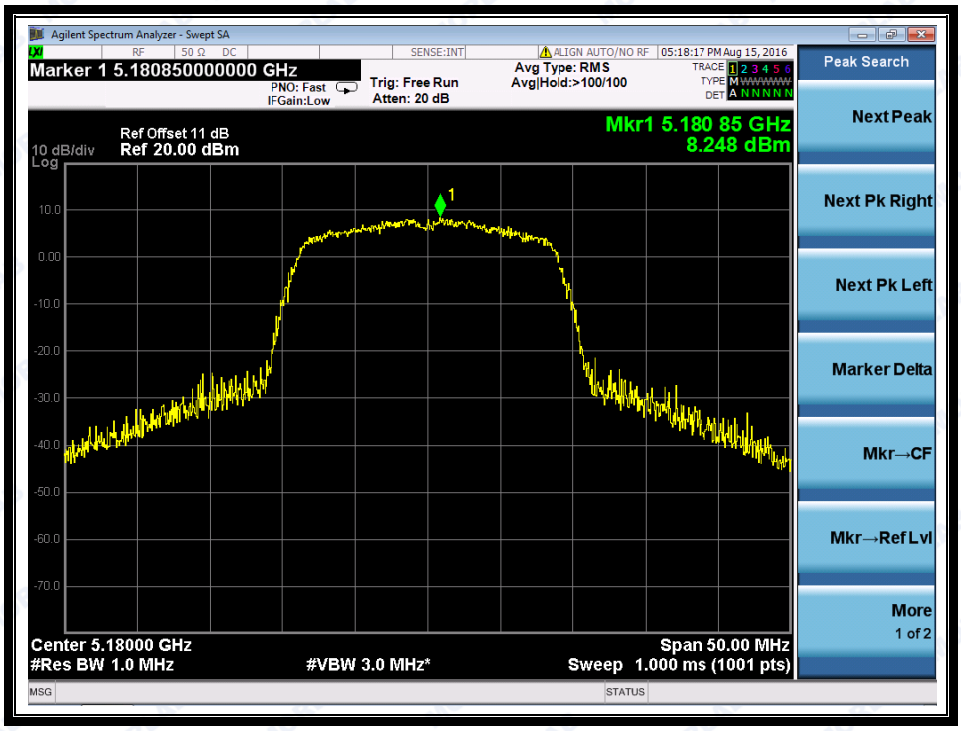
2.4.3 Test Result

2.4.3.1 802.11ac-20MHz Test mode

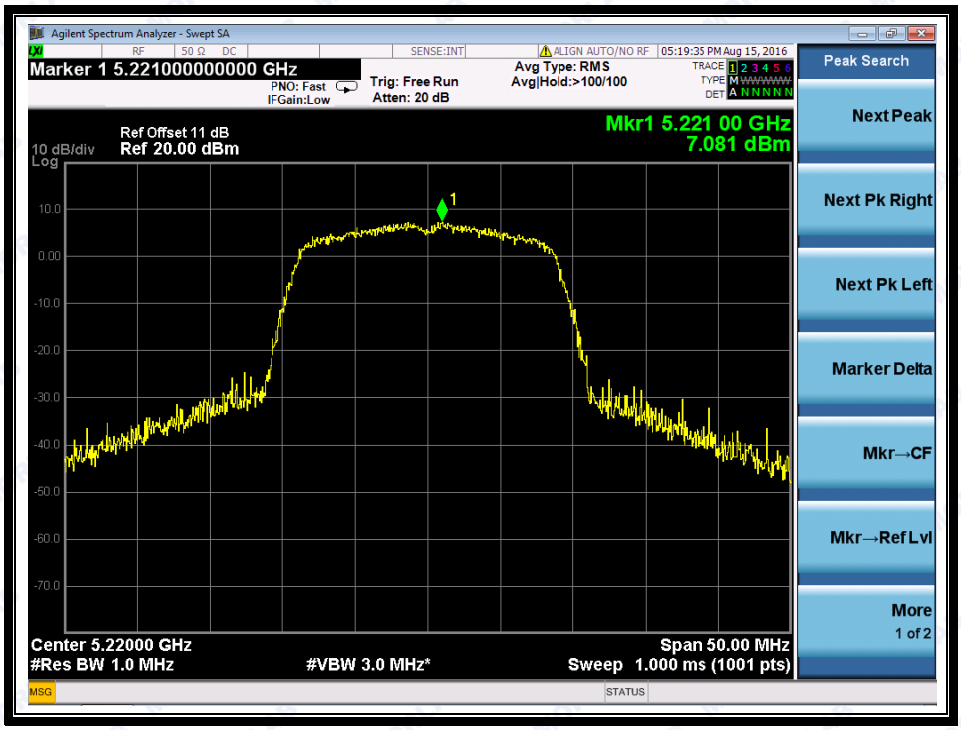
A. Test Verdict:

Channel	Frequency (MHz)	Measured PPSD (dBm)	Limit (dBm)	Verdict
36	5180	8.248	11	PASS
44	5220	7.081		
48	5240	6.796		
52	5260	6.348		
60	5300	5.237		
64	5320	5.224		
100	5500	6.480		
116	5580	8.636		
140	5700	9.615		
149	5745	8.825	30	
157	5785	7.352		
165	5825	5.892		

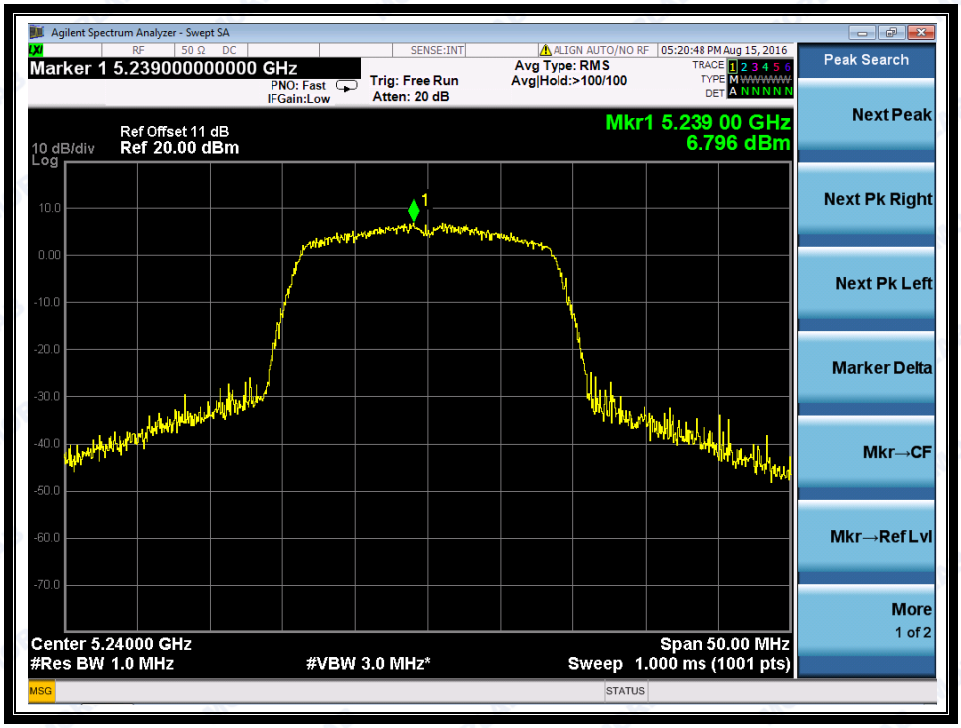
B. Test Plots



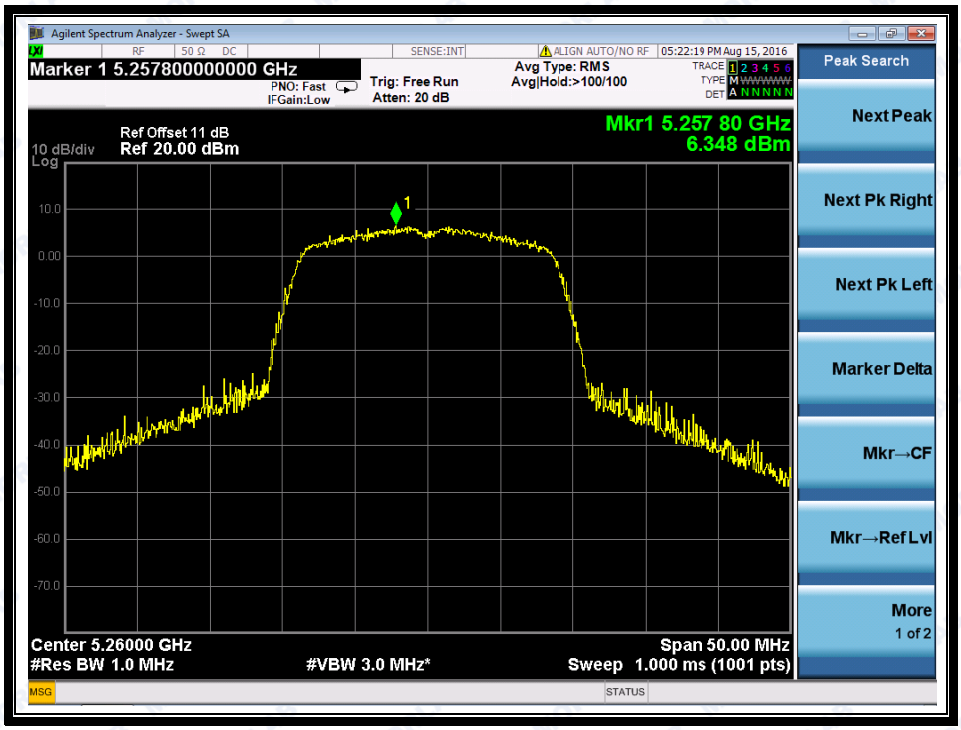
(Channel 36: 5180MHz @ 802.11ac)



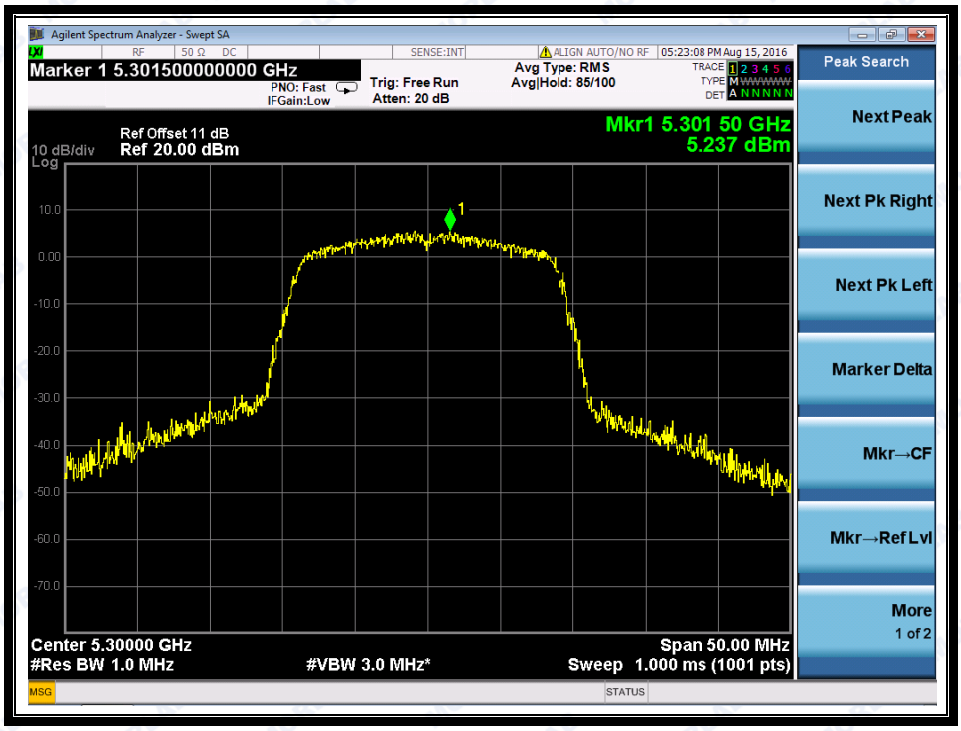
(Channel 44: 5220 MHz @ 802.11ac)



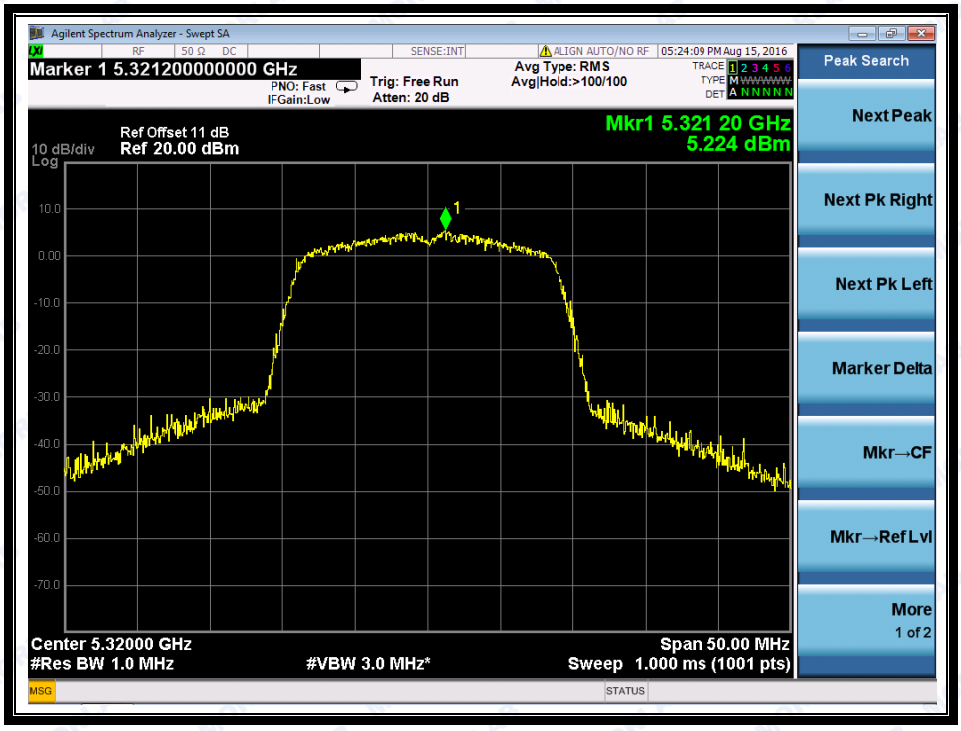
(Channel 48: 5240MHz @ 802.11ac)



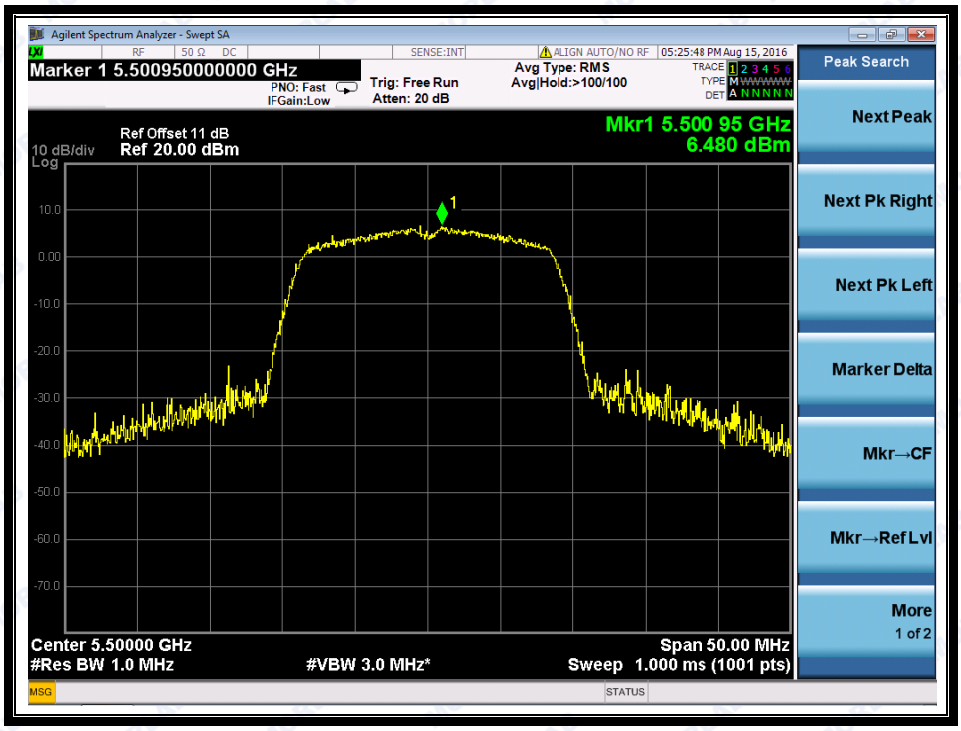
(Channel 52: 5260MHz @ 802.11ac)



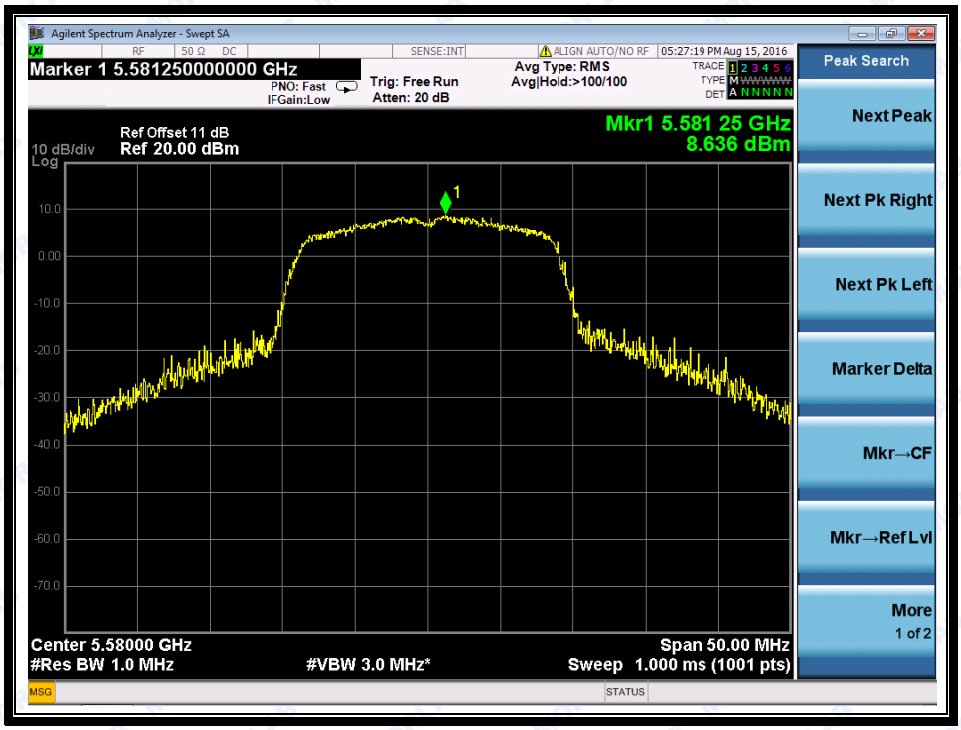
(Channel 60: 5300MHz @ 802.11ac)



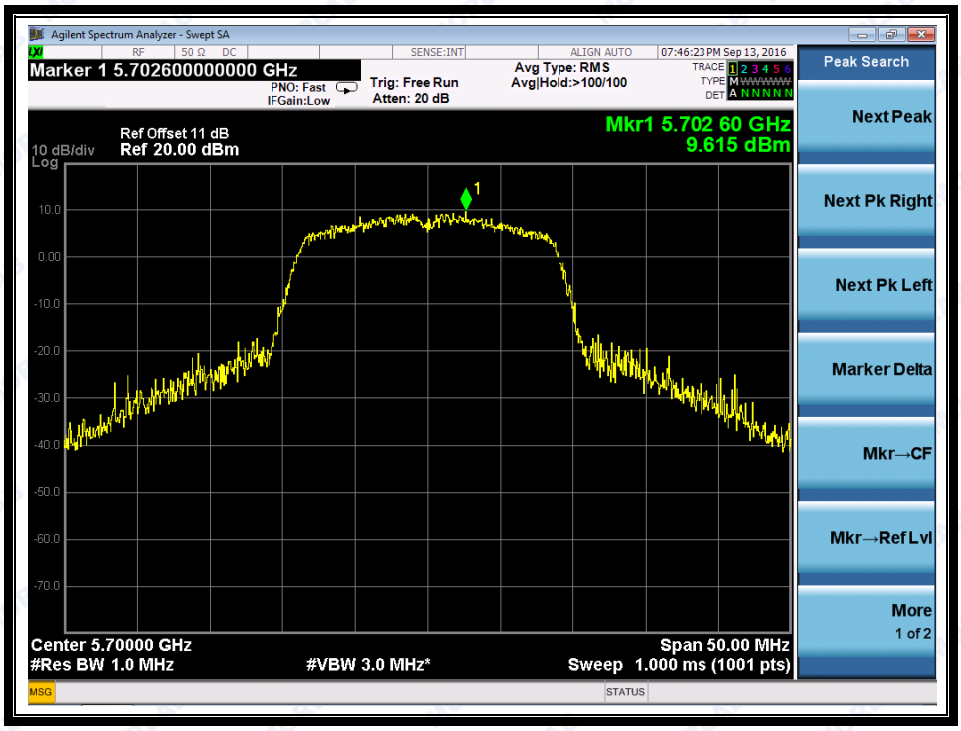
(Channel 64: 5320MHz @ 802.11ac



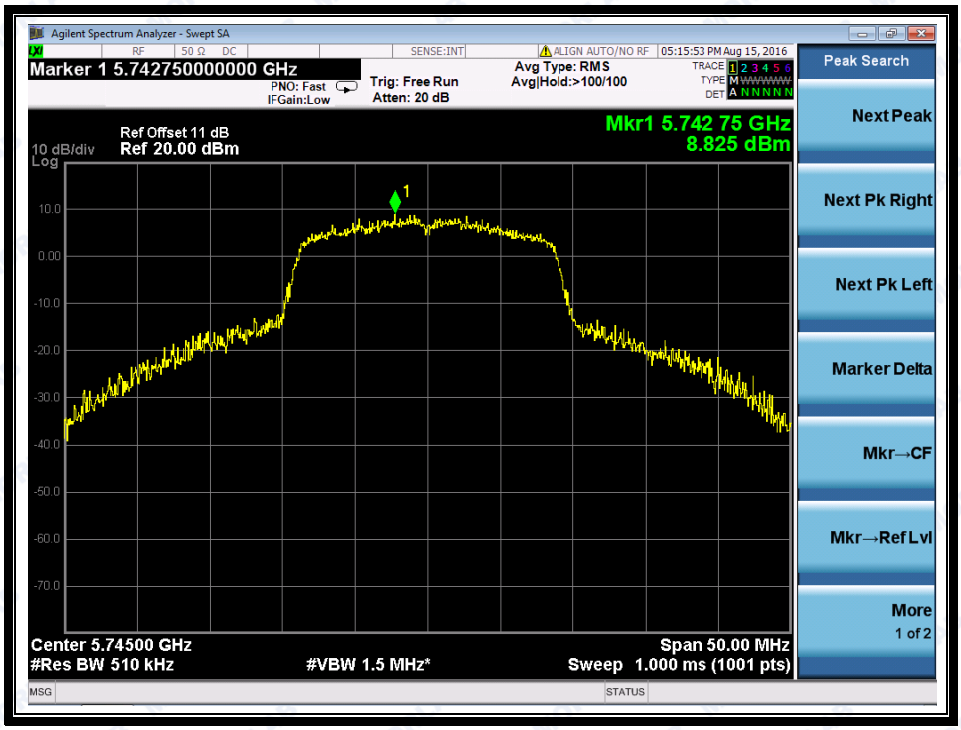
(Channel 100: 5500MHz @ 802.11ac)



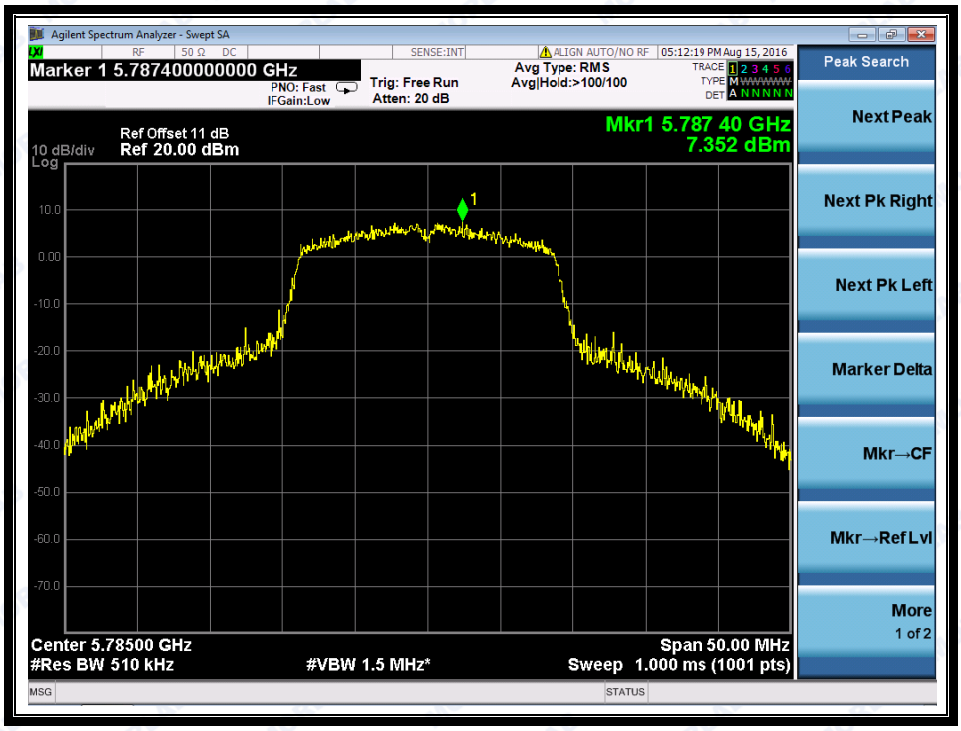
(Channel 120: 5580MHz @ 802.11ac)



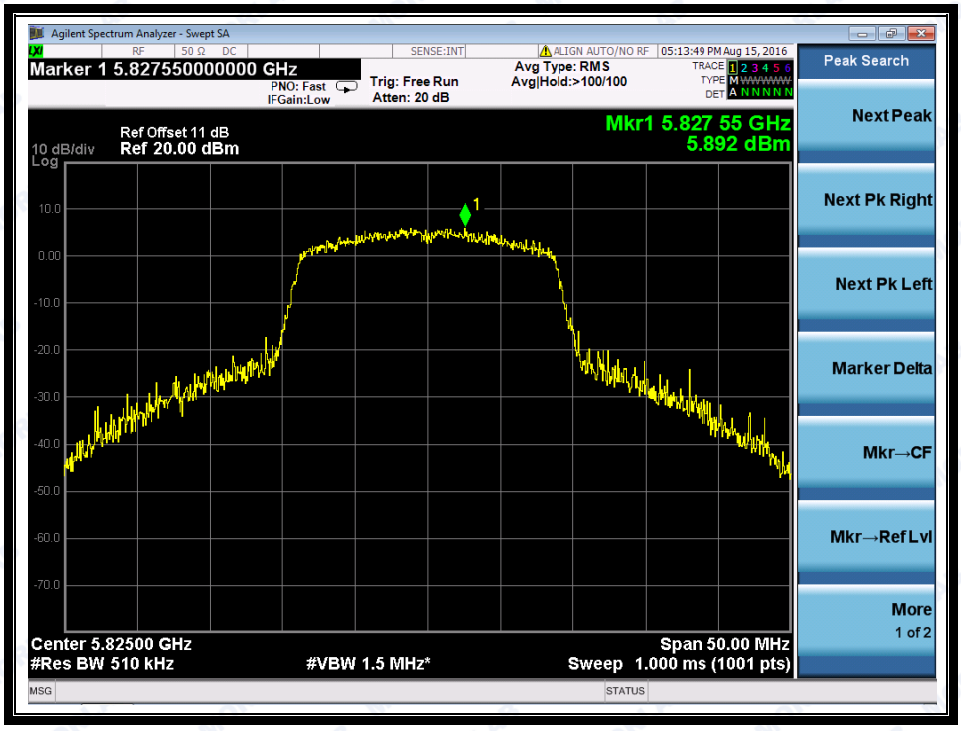
(Channel 140: 5700MHz @ 802.11ac)



(Channel 149: 5745MHz @ 802.11ac)



(Channel 157: 5785MHz @ 802.11ac)



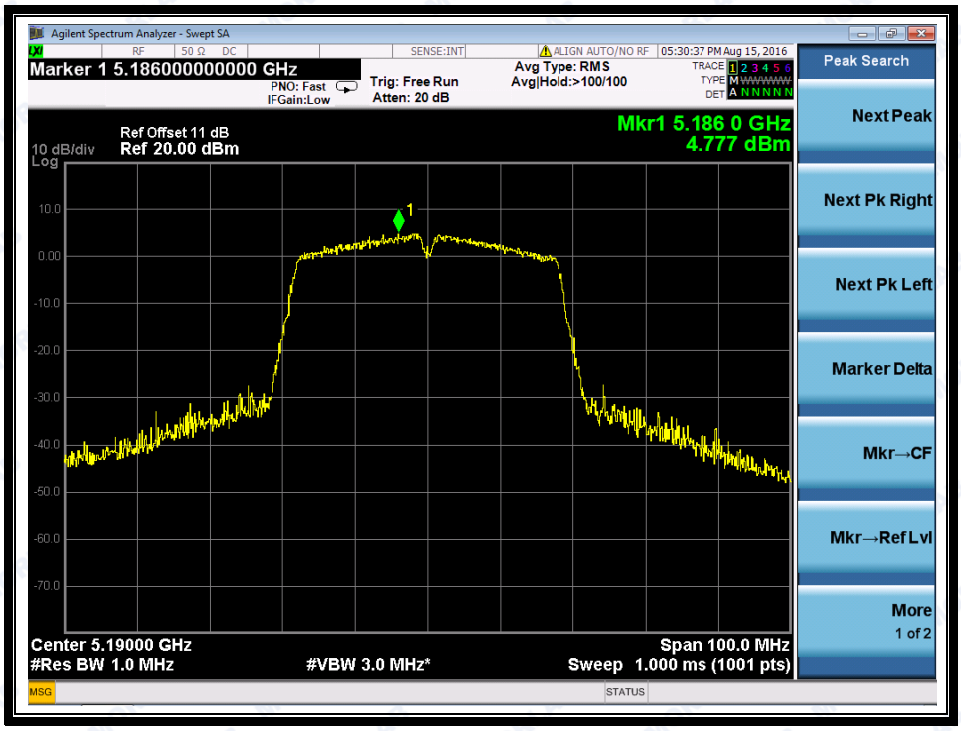
(Channel 165: 5825MHz @ 802.11ac)

2.4.3.2 802.11ac-40MHz Test mode

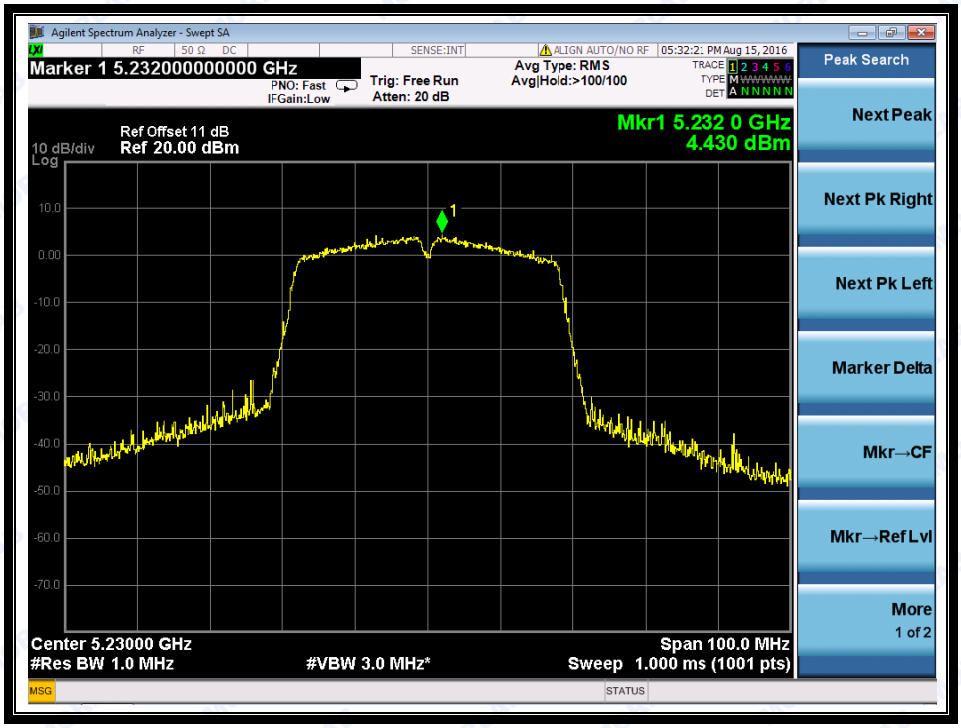
A. Test Verdict:

Channel	Frequency (MHz)	Measured PPSD (dBm)	Limit (dBm)	Verdict
38	5190	4.777	11	PASS
46	5230	4.430		
54	5270	4.674		
62	5310	2.263		
102	5510	4.381		
126	5630	6.883		
142	5670	7.158		
151	5755	4.963	30	
159	5795	5.248		

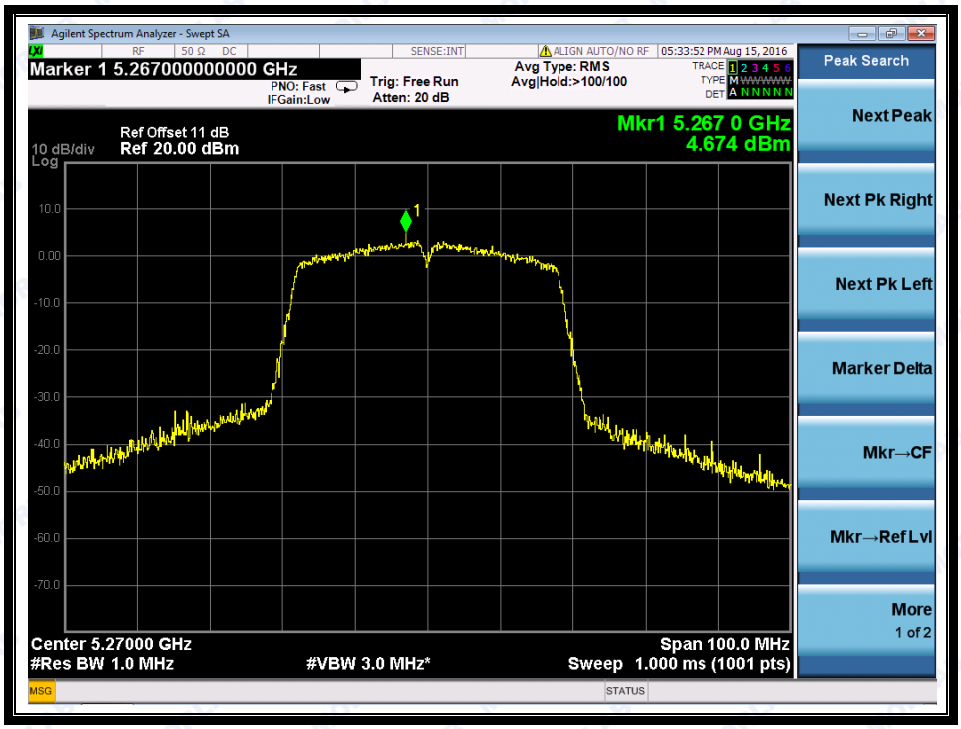
B. Test Plots



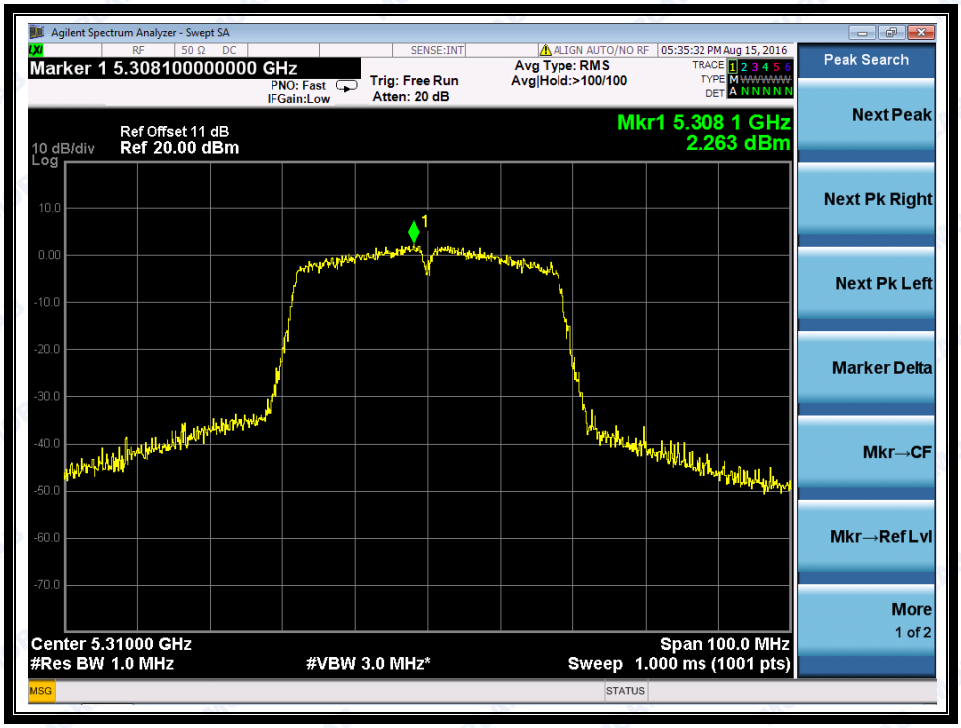
(Channel 38: 5190MHz @ 802.11ac)



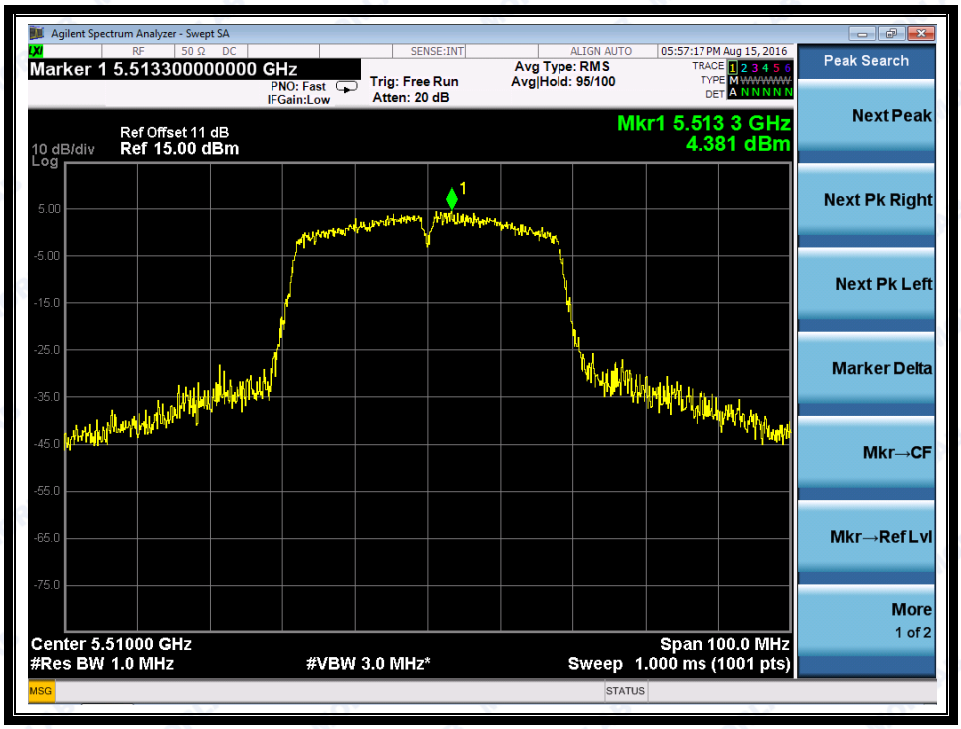
(Channel 46: 5230 MHz @ 802.11ac)



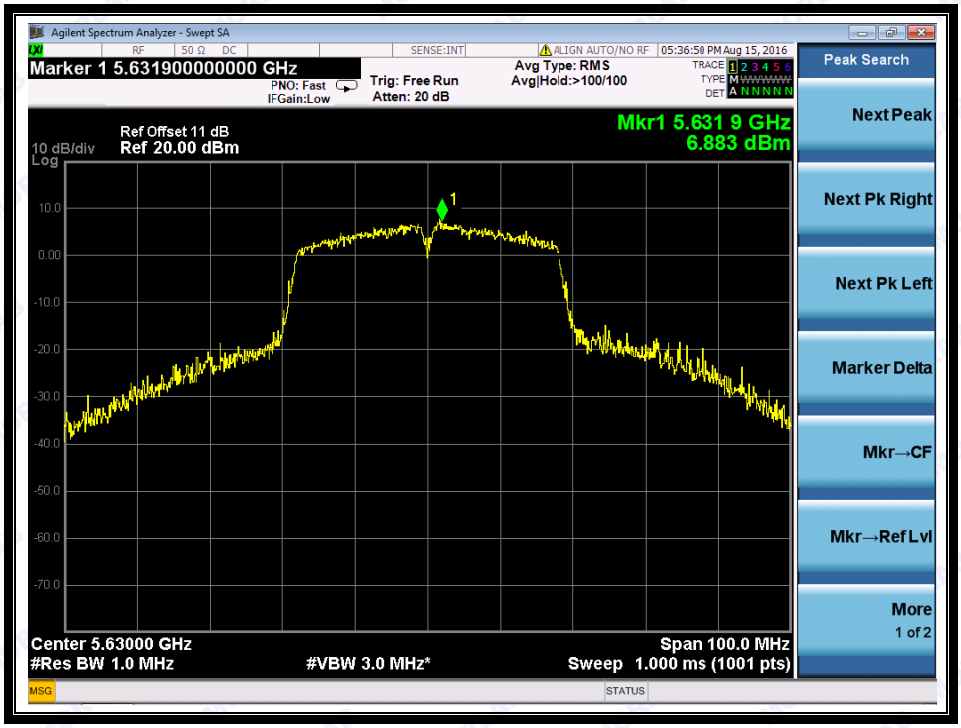
(Channel 54: 5270MHz @ 802.11ac)



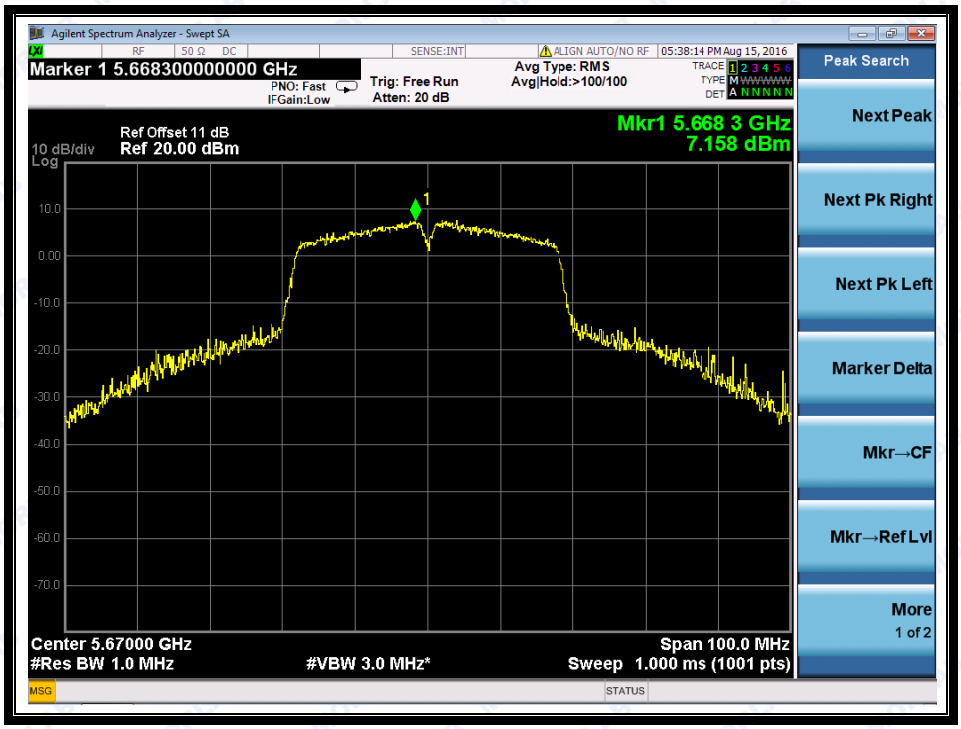
(Channel 62: 5310MHz @ 802.11ac)



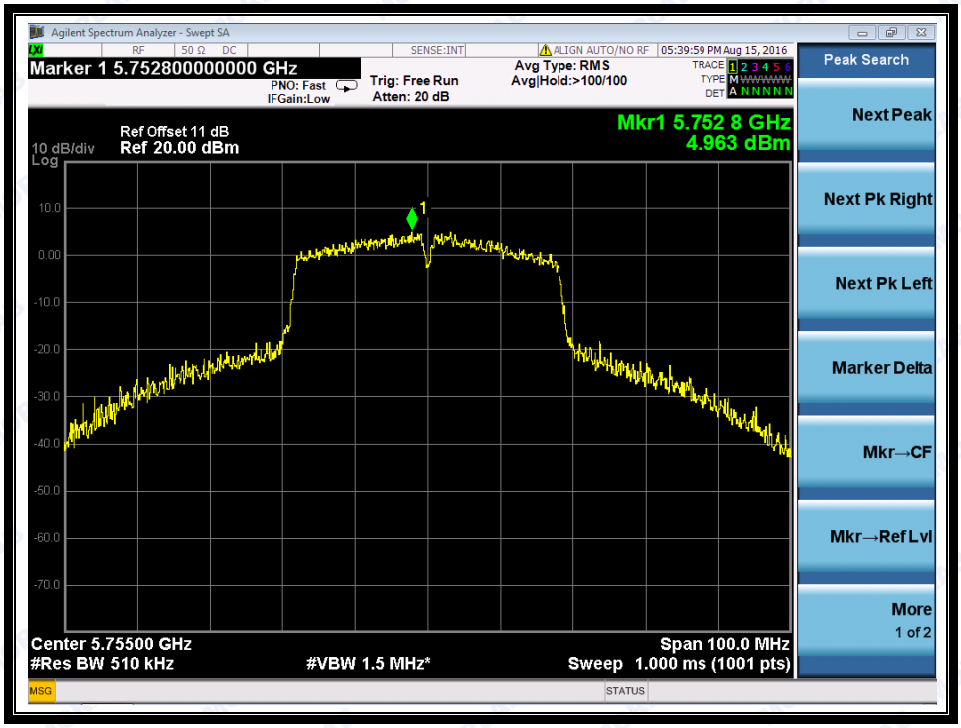
(Channel 102: 5510MHz @ 802.11ac)



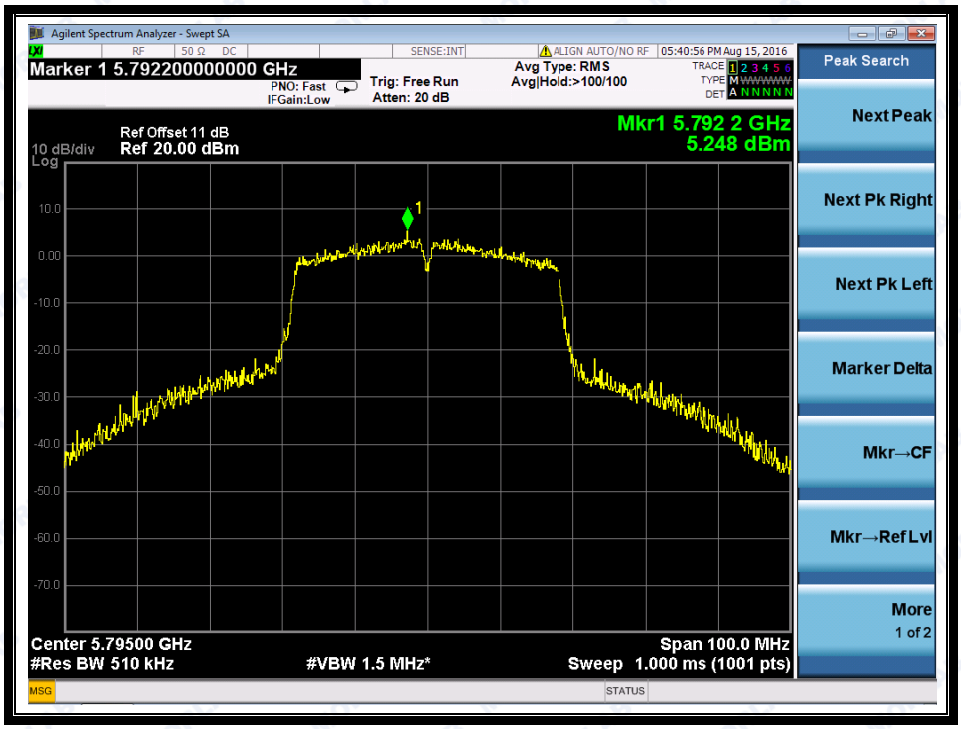
(Channel 126: 5630MHz @ 802.11ac)



(Channel 142: 5670MHz @ 802.11ac)



(Channel 151: 5755MHz @ 802.11ac)



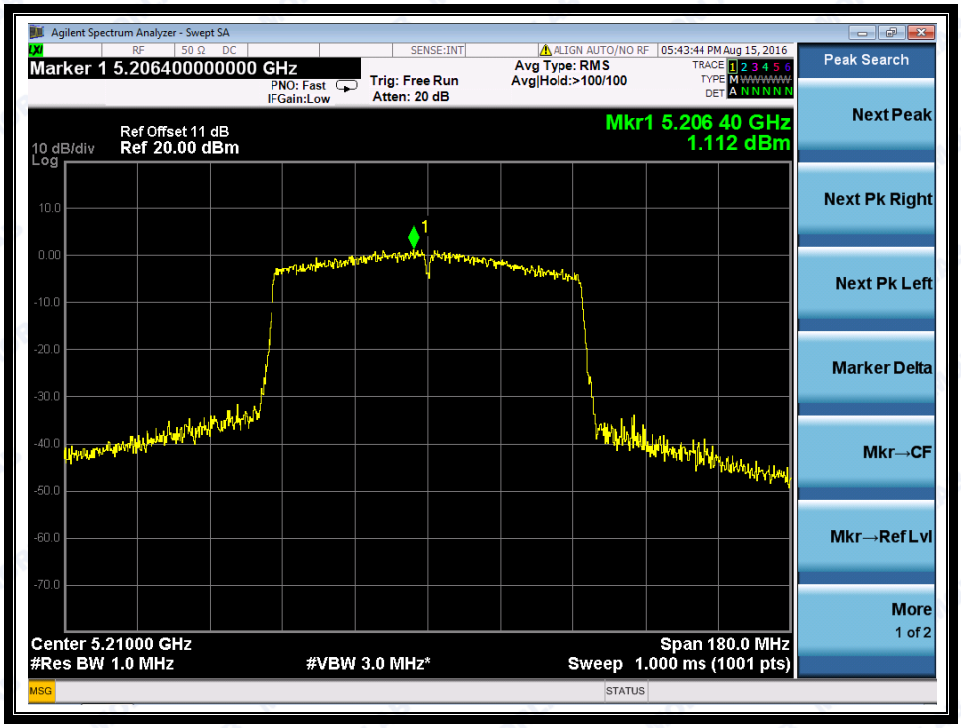
(Channel 159: 5795MHz @ 802.11ac)

2.4.3.3 802.11ac-80MHz Test mode

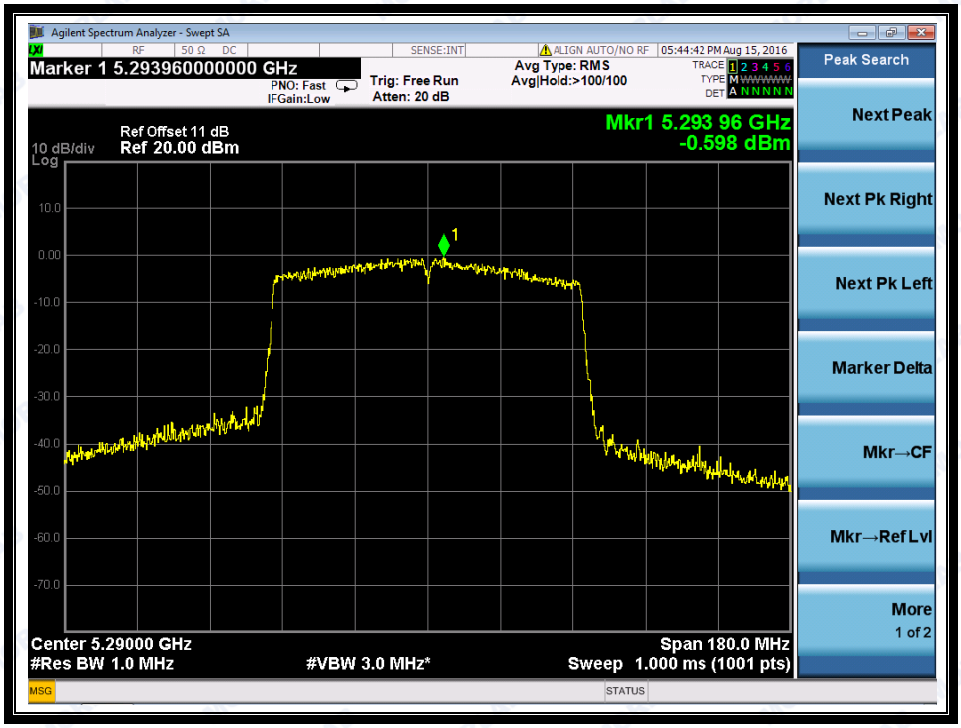
A. Test Verdict:

Channel	Frequency (MHz)	Measured PPSD (dBm)	Limit (dBm)	Verdict
42	5210	1.112	11	PASS
58	5290	-0.598		
106	5530	0.292		
122	5610	3.131		
138	5690	3.869		
155	5775	1.274	30	

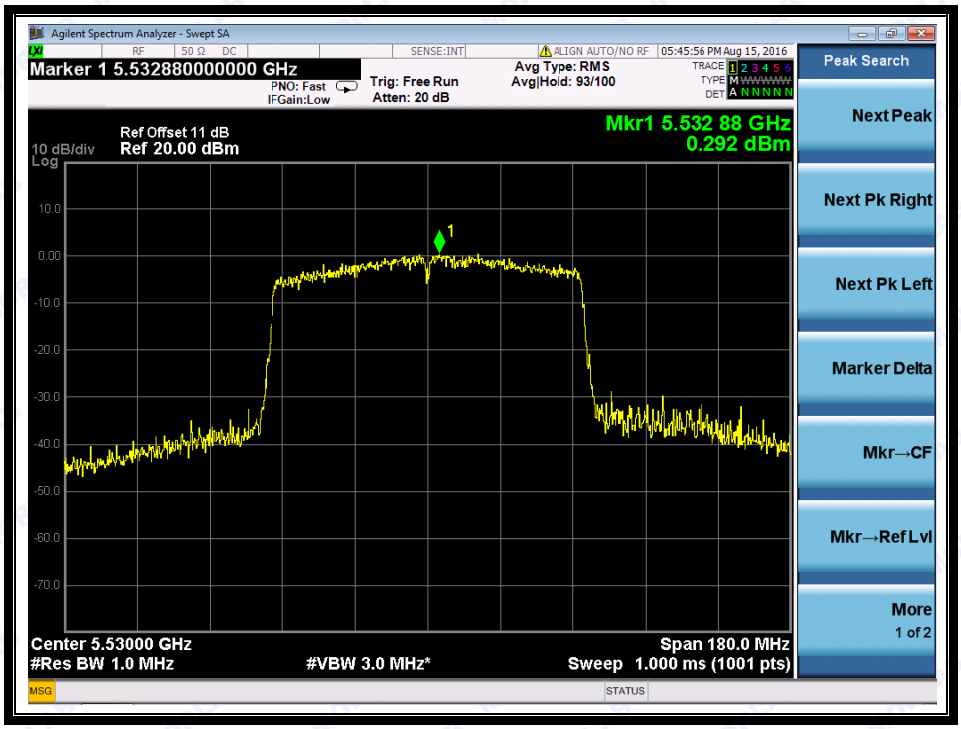
B. Test Plots



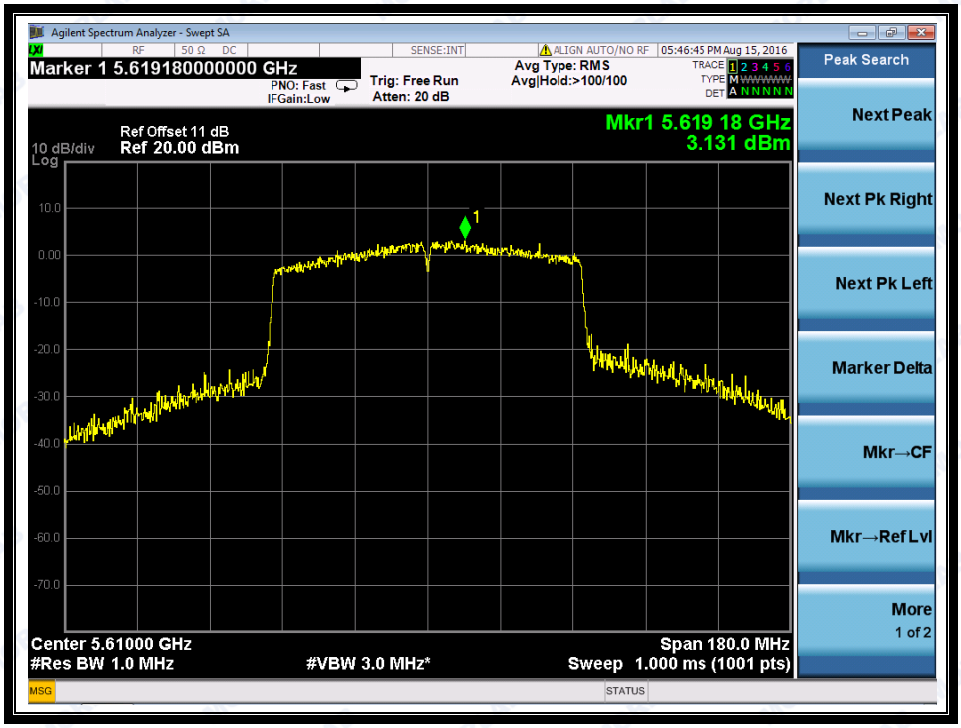
(Channel 42: 5210MHz @ 802.11ac)



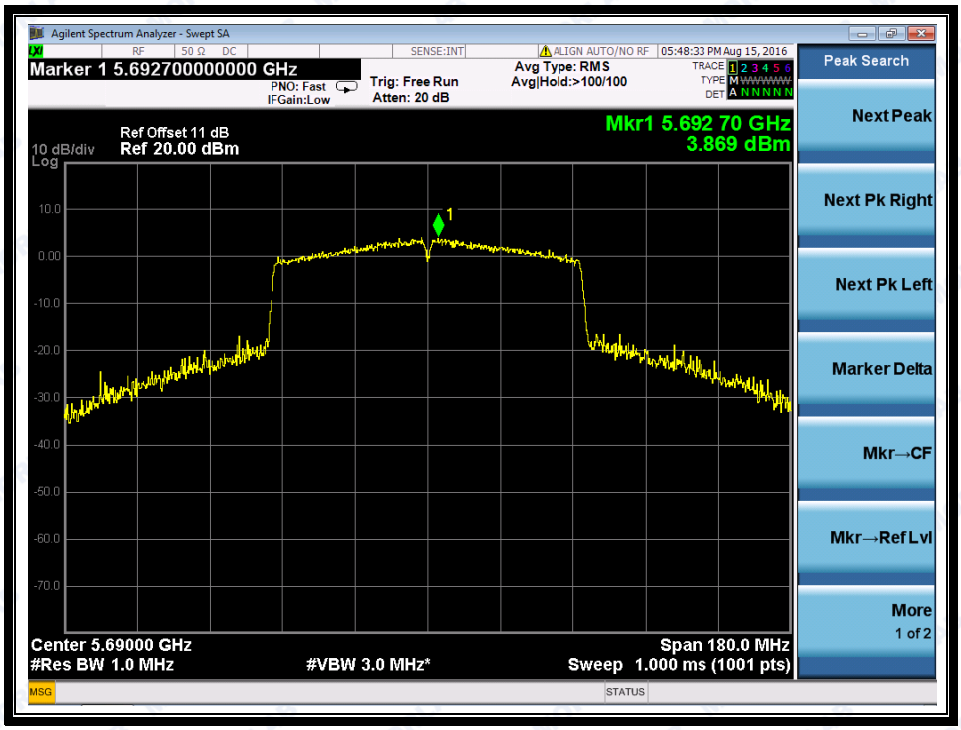
(Channel 58: 5290MHz @ 802.11ac)



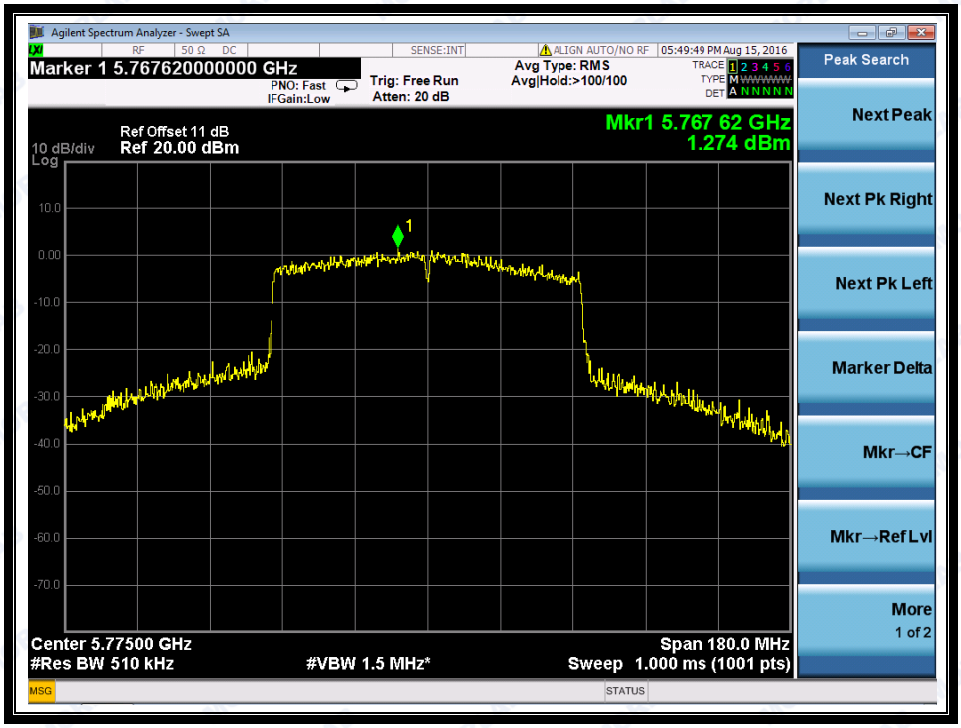
(Channel 106: 5530MHz @ 802.11ac)



(Channel 122: 5610MHz @ 802.11ac)



(Channel 138: 5690MHz @ 802.11ac)



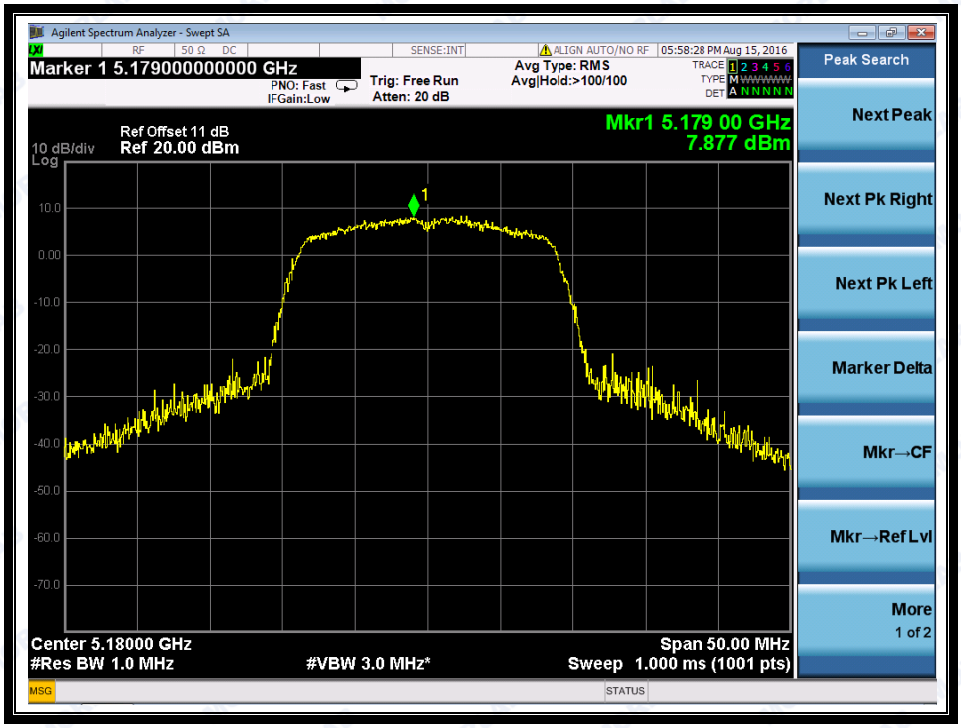
(Channel 155: 5775MHz @ 802.11ac)

2.4.3.4 802.11n-20MHz Test mode

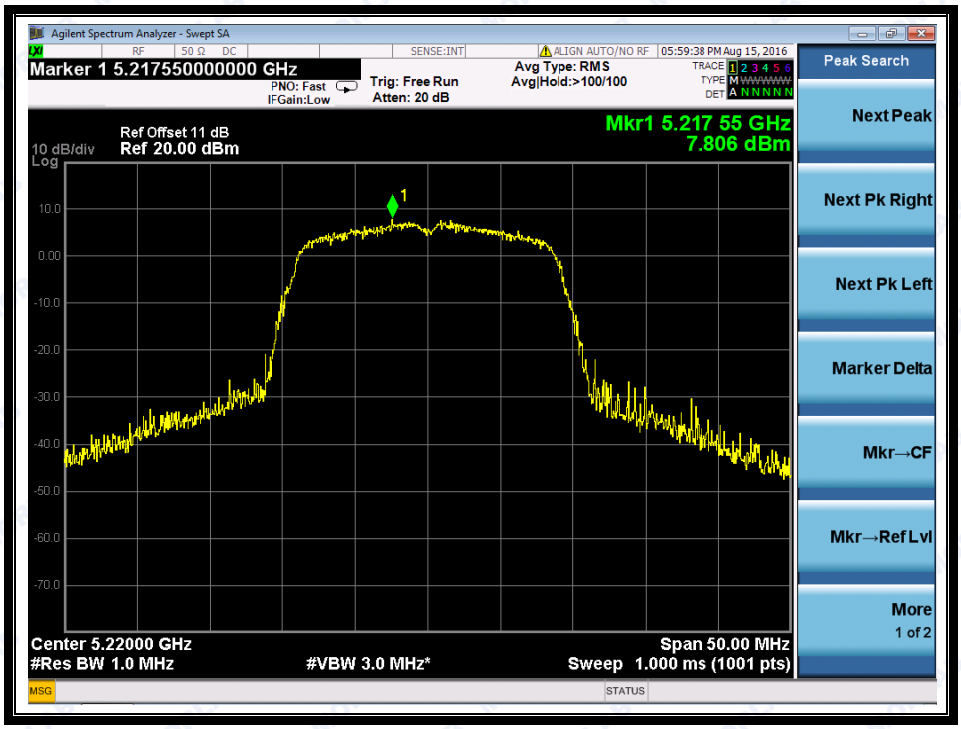
A. Test Verdict:

Channel	Frequency (MHz)	Measured PPSD (dBm)	Limit (dBm)	Verdict
36	5180	7.877	11	PASS
44	5220	7.806		
48	5240	6.637		
52	5260	6.932		
60	5300	6.354		
64	5320	5.236		
100	5500	6.360		
116	5580	9.325		
140	5700	9.543		
149	5745	8.222	30	
157	5785	7.724		
165	5825	6.975		

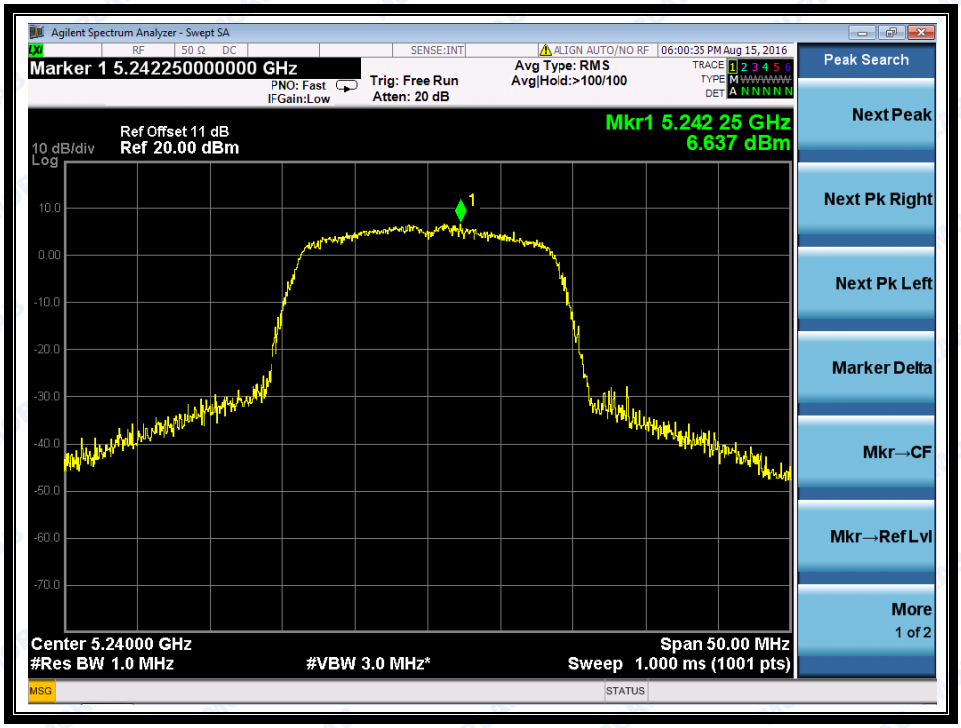
B. Test Plots



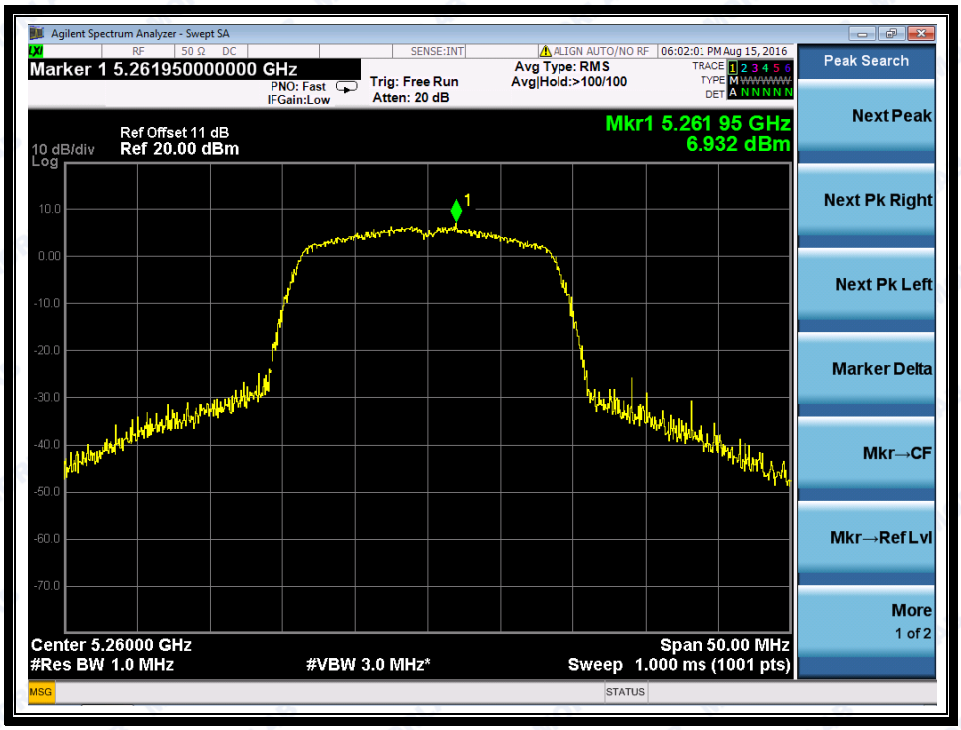
(Channel 36: 5180MHz @ 802.11n-20MHz)



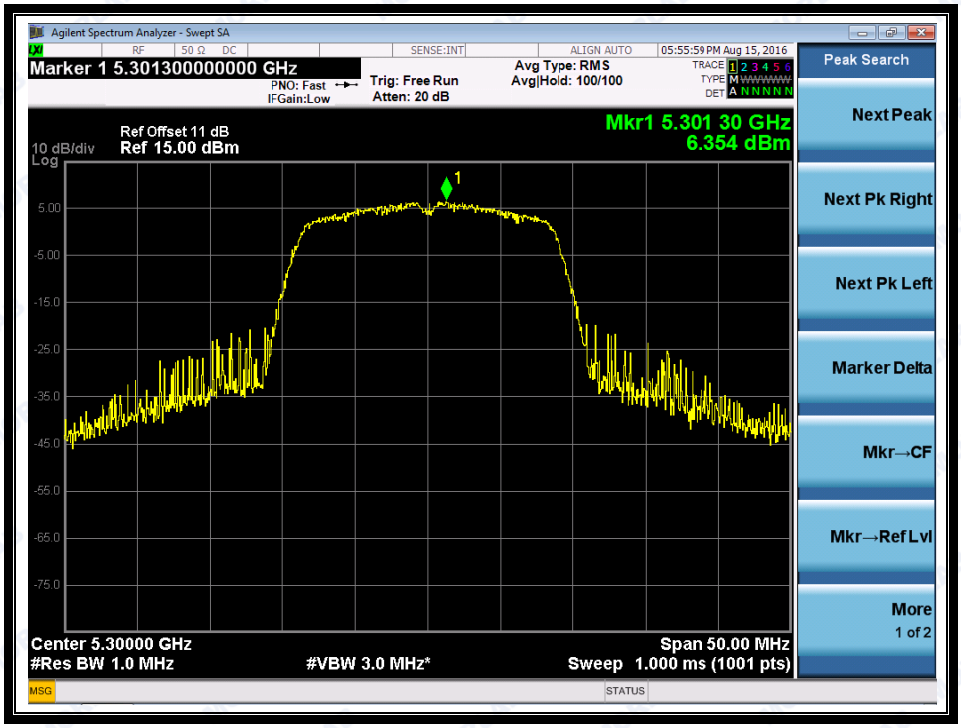
(Channel 44: 5220 MHz @ 802.11n-20MHz)



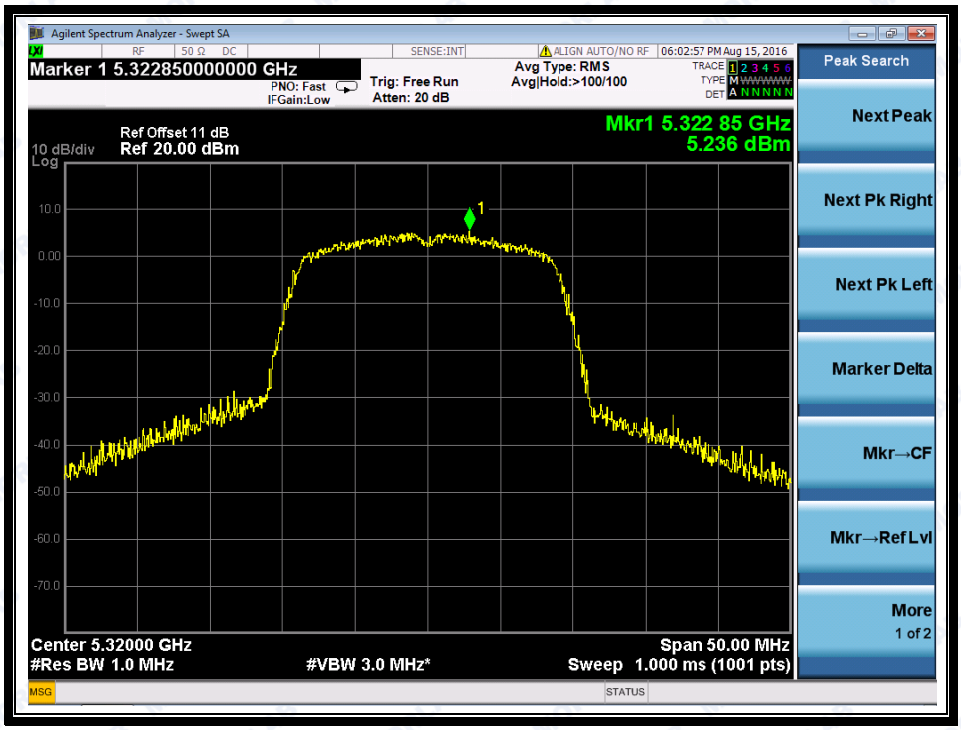
(Channel 48: 5240MHz @ 802.11n-20MHz)



(Channel 52: 5260MHz @ 802.11n-20MHz)

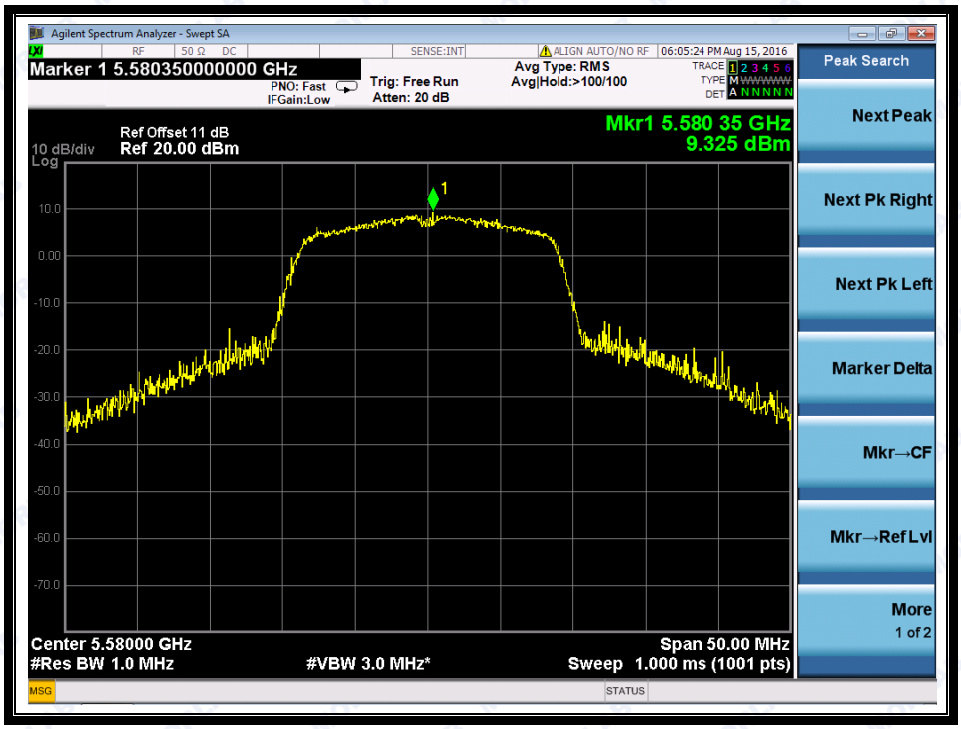


(Channel 60: 5300MHz @ 802.11n-20MHz)



(Channel 64: 5320MHz @ 802.11n-20MHz)

(Channel 100: 5500MHz @ 802.11n-20MHz)



(Channel 120: 5580MHz @ 802.11n-20MHz)