



REPORT No.: SZ17120080W04

TEST REPORT

APPLICANT : Shenzhen Chainway Information Technology Co.,Ltd.

PRODUCT NAME : Mobile Data Terminal

MODEL NAME : C6000

BRAND NAME : CHAINWAY

FCC ID : 2AC6AC6000

STANDARD(S) : 47 CFR Part 15 Subpart E

TEST DATE : 2017-12-29 to 2018-03-10

ISSUE DATE : 2018-03-13

Tested by: Tu Ya'nan
Tu Ya'nan (Test Engineer)

Approved by: Andy Yeh
Andy Yeh (Technical Director)

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MORLAB

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





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REPORT No.: SZ17120080W04

Change History		
Issue	Date	Reason for change
1.0	2018-03-13	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Shenzhen Chainway Information Technology Co.,Ltd.
Applicant Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen
Manufacturer:	Shenzhen Chainway Information Technology Co.,Ltd.
Manufacturer Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Data Terminal
Serial No:	(N/A, marked #1 by test site)
Hardware Version:	C6000EA_MB_10
Software Version:	C6000A_MT6735_V3_AM_GITe978618_20180315
Modulation Type:	OFDM
Modulation Mode:	802.11a, 802.11n(HT20), 802.11n(HT40)
Operating Frequency Range:	5.150 GHz- 5.250 GHz; 5.250 GHz -5.350 GHz ; 5.470 GHz -5.725 GHz ; 5.725GHz- 5.850GHz
Channel Number:	Refer to 1.3
Antenna Type:	PIFA Antenna
Antenna Gain:	0.58 dBi

Note 1: The U-NII band is applicable to this report, another bands of operation (2.4GHz) is documented in a separate report.

Note 2: WIFI hotspot does not support U-NII band.

Note 3: During test, the duty cycle of the EUT was setting to 100%.

Note 4: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. The channel number and frequency of EUT

Frequency Range: 5150-5250MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
Frequency Range: 5250-5350MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
Frequency Range: 5470-5725MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700		
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
Frequency Range: 5725-5805MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5775	159	5795

Note 1: The black bold channels were selected for test.



1.4. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart E (U-NII 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	Test Date	Test Engineer	Result
1	15.203	Antenna Requirement	N/A	N/A	PASS
2	15.407(a) (e)	Emission Bandwidth	Dec 29, 2017	Tu Ya'nan	PASS
3	15.407(a)	Maximum conducted output Power	Dec 29, 2017	Tu Ya'nan	PASS
4	15.407(a)	Peak Power spectral density	Dec 29, 2017	Tu Ya'nan	PASS
5	15.407(b)	Restricted Frequency Bands	Jan 08, 2018& Mar 10, 2018	Wu Zhognwen	PASS
6	15.407(g)	Frequency Stability	Dec 29, 2017	Tu Ya'nan	PASS
7	15.207	Conducted Emission	Mar 08, 2018	Wu Zhognwen	PASS
8	15.407(b)	Radiated Emission	Jan 08, 2018& Mar 10, 2018	Wu Zhognwen	PASS
9	15.407(c)	Automatically discontinue transmission requirement	N/A	N/A	PASS

Note1: The DFS test report was documented in a separate report (Report No.: SZ17120080W05).

Note2: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.

Note3: These RF tests were performed according to the method of measurements prescribed in KDB789033 D02 General UNII Test Procedures New Rules v01r03

1.5. Environmental 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 15C 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. 2.1.2 Result: Compliant

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

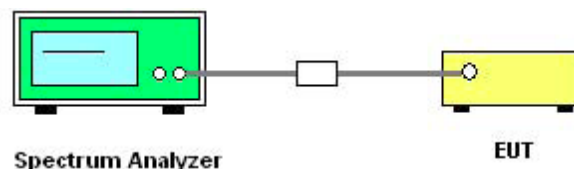
2.2. Emission Bandwidth

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 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
 - a) Set RBW = approximately 1% of the emission bandwidth.
 - b) Set the VBW > RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) 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) $\geq 3 \times$ 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

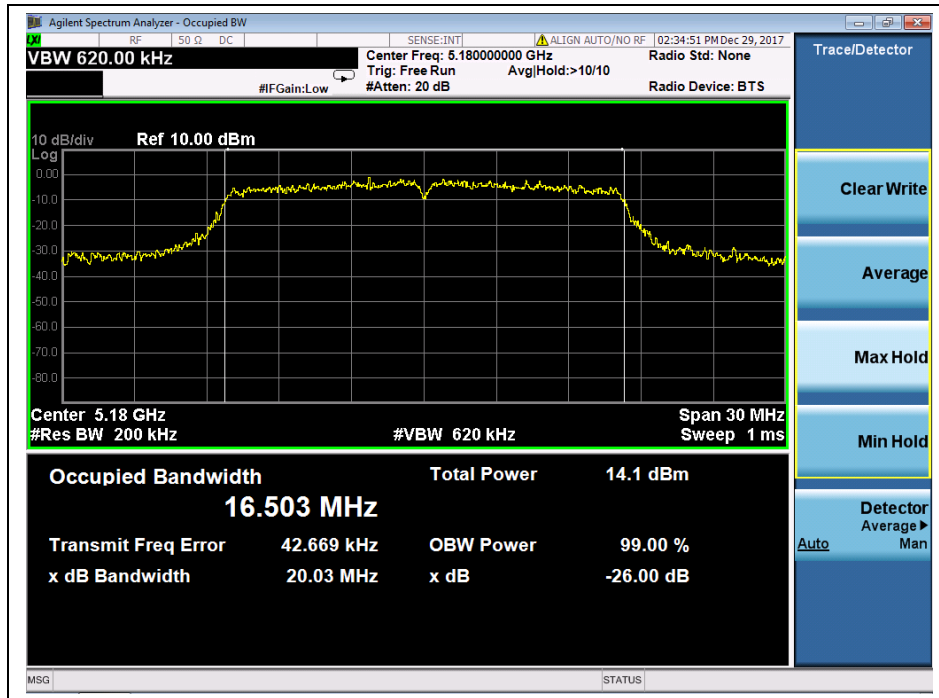
802.11a Test mode

A. Test Verdict:

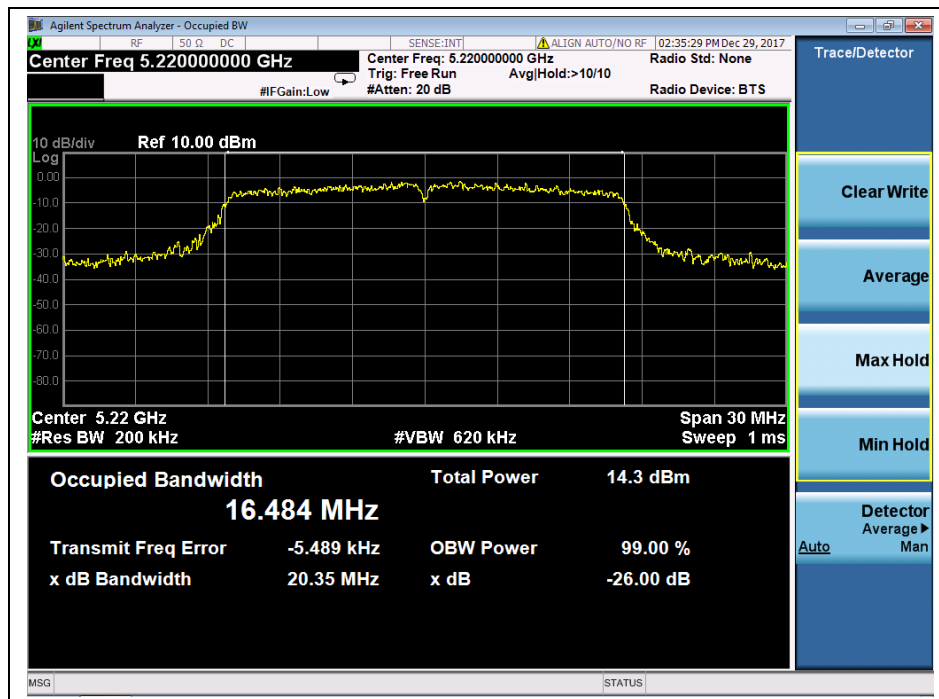
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	20.03
44	5220	20.35
48	5240	19.86
52	5260	20.39
60	5300	19.52
64	5320	20.10
100	5500	22.20
120	5600	20.32
140	5700	19.63
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
149	5745	16.35
157	5785	16.38
165	5825	16.36



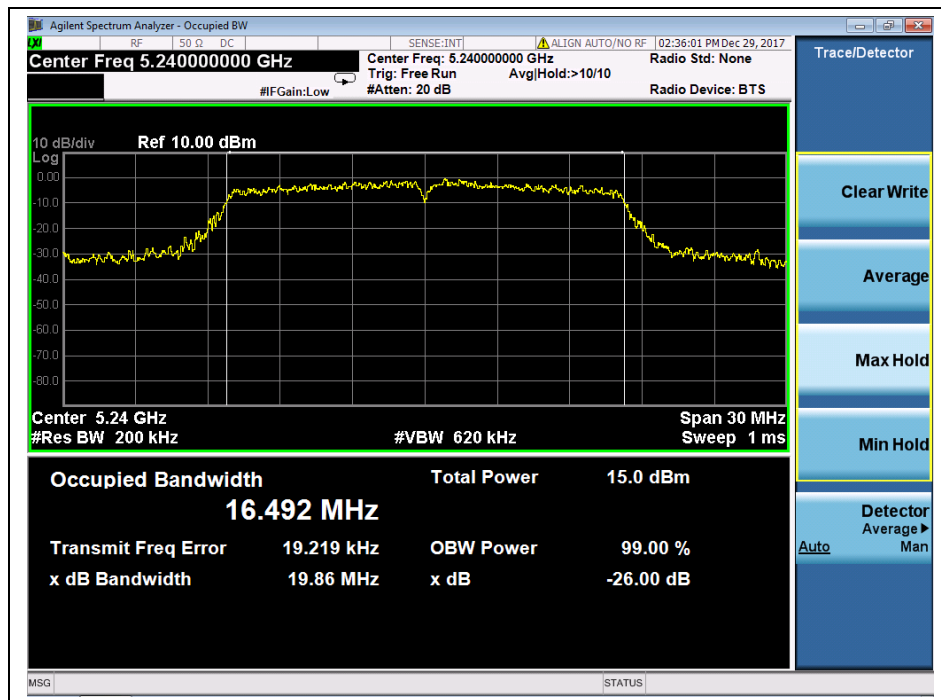
B. Test Plots



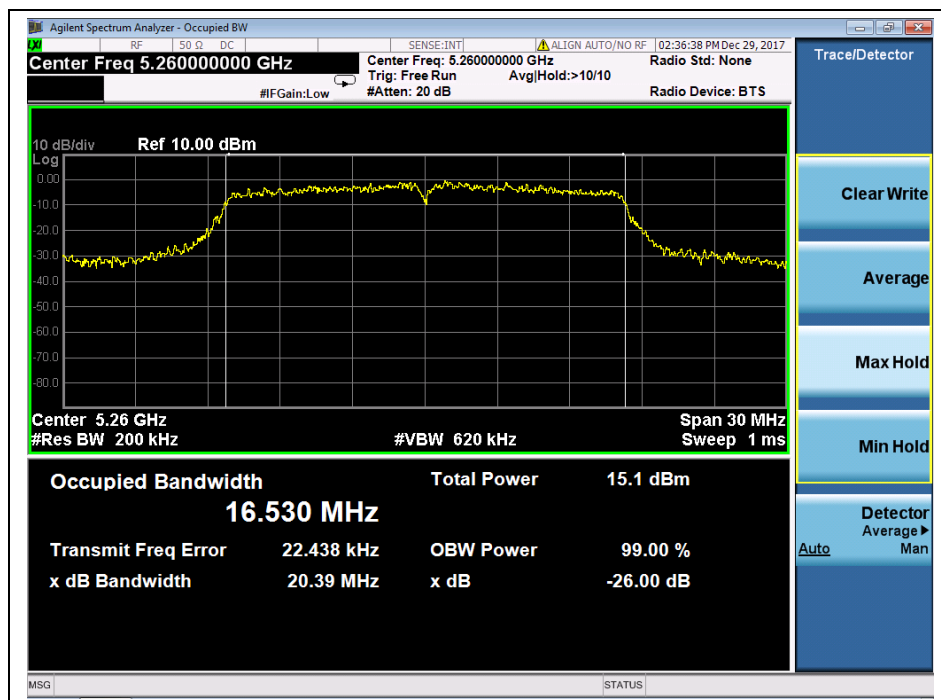
(Channel 36, 5180MHz, 802.11a,)



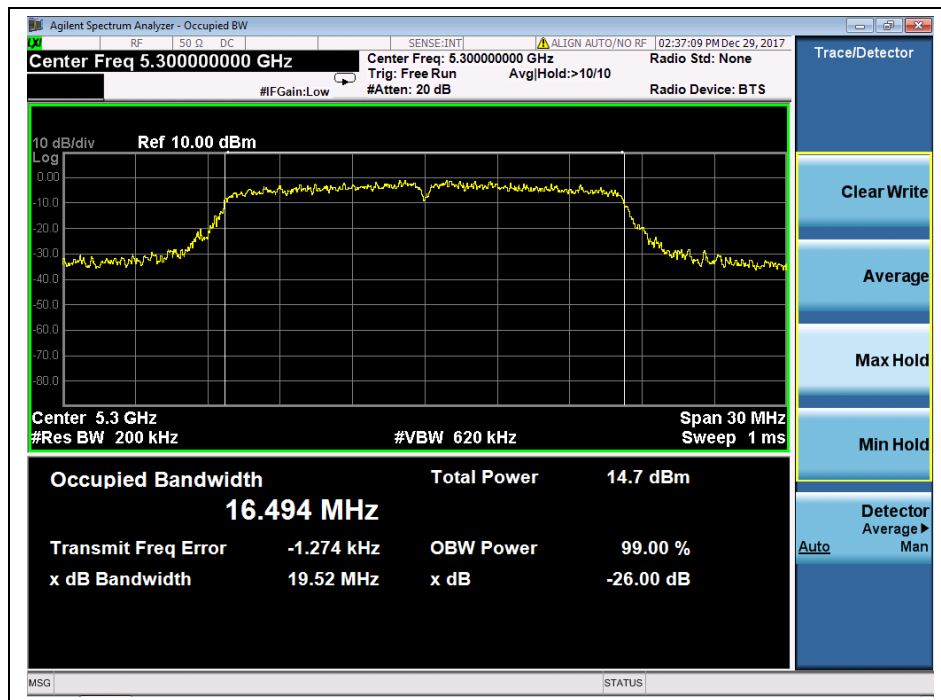
(Channel 44, 5220 MHz, 802.11a,)



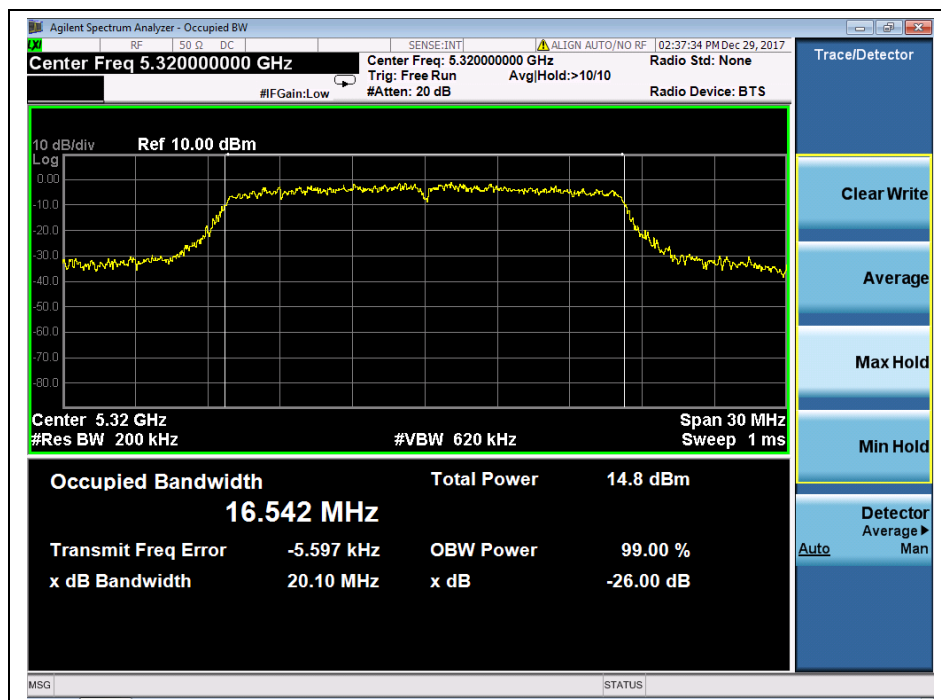
(Channel 48, 5240MHz, 802.11a,)



(Channel 52, 5260MHz, 802.11a,)



(Channel 60, 5300 MHz, 802.11a,)



(Channel 64, 5320MHz, 802.11a,)



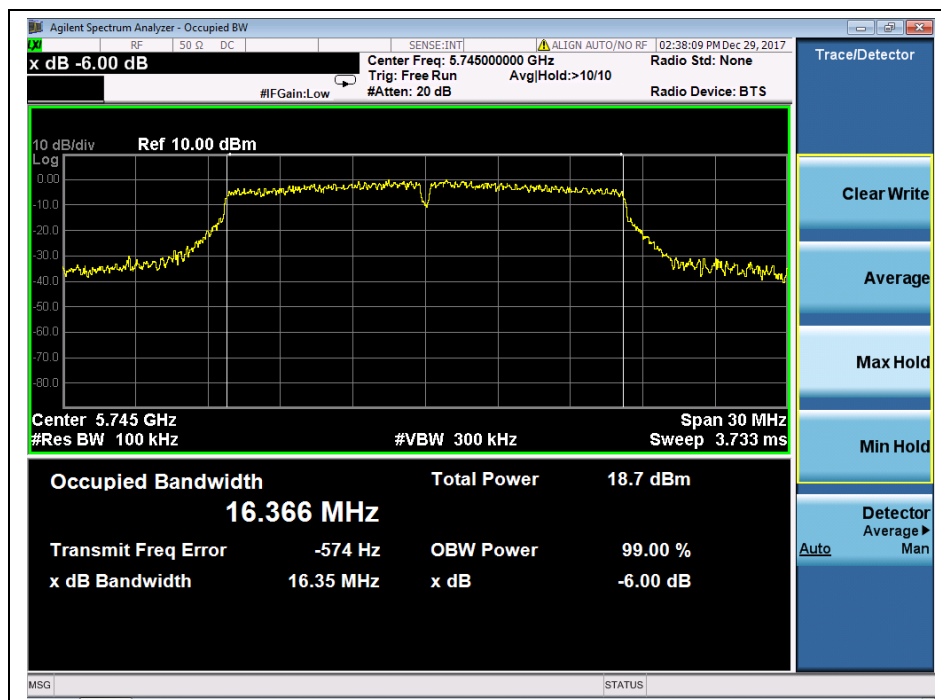
(Channel 100, 5500MHz, 802.11a,)



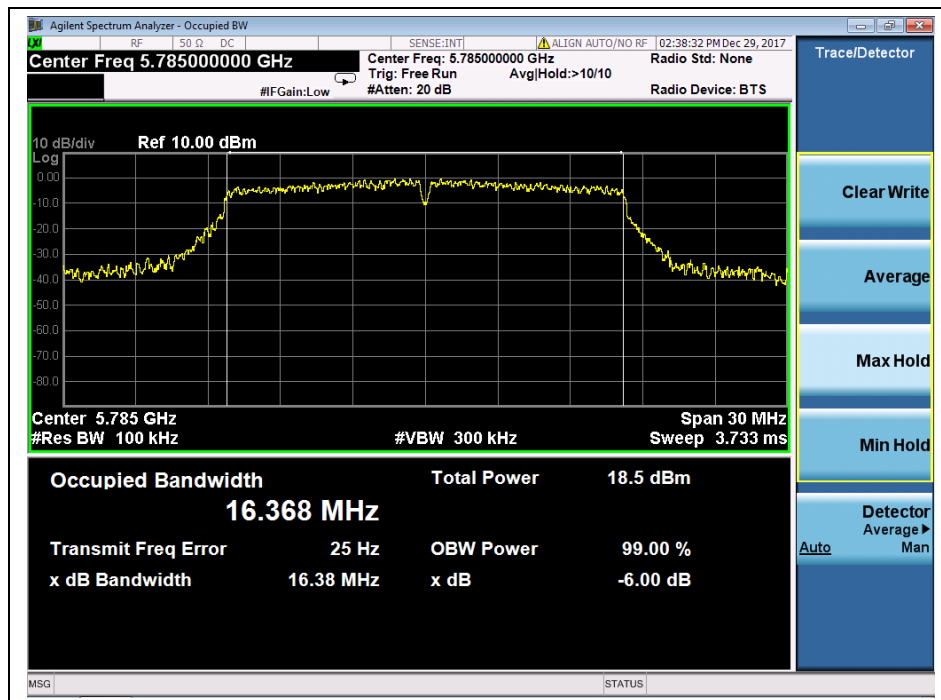
(Channel 120, 5600 MHz, 802.11a,)



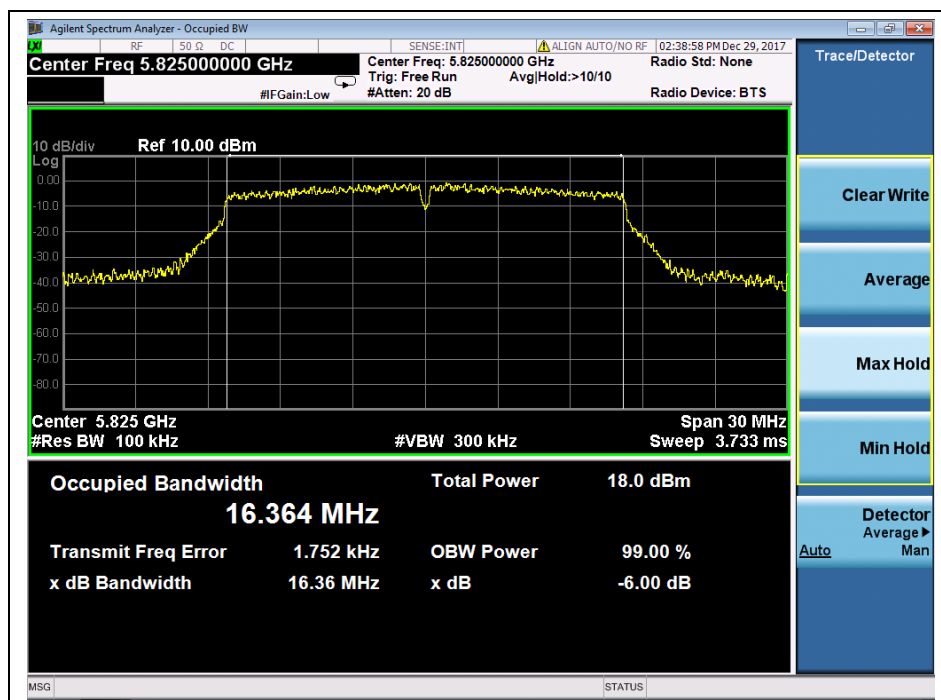
(Channel 140, 5700MHz, 802.11a,)



(Channel 149, 5745MHz, 802.11a)



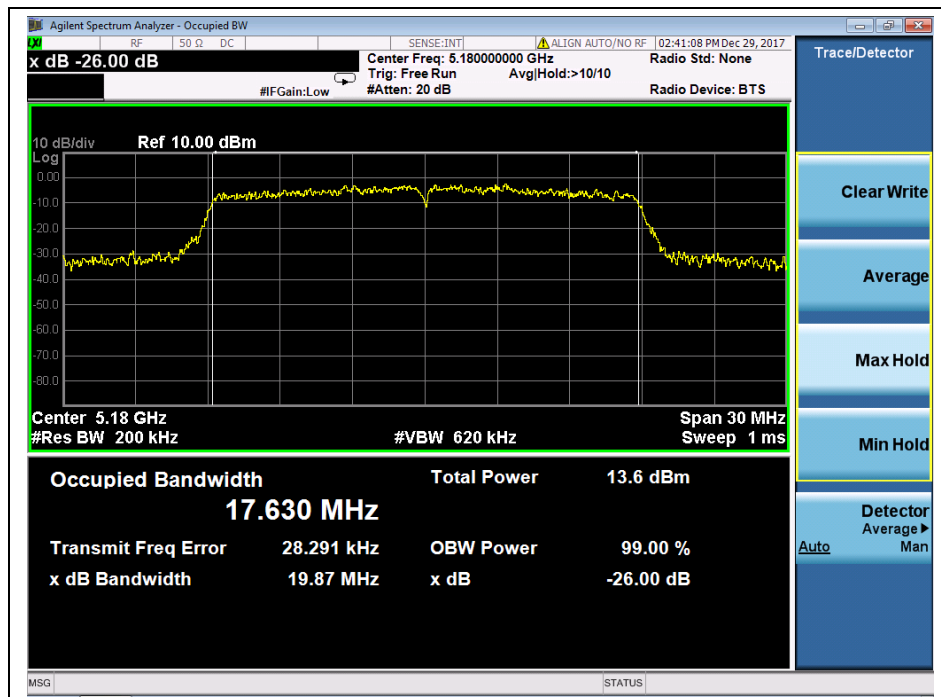
(Channel 157, 5785MHz, 802.11a)



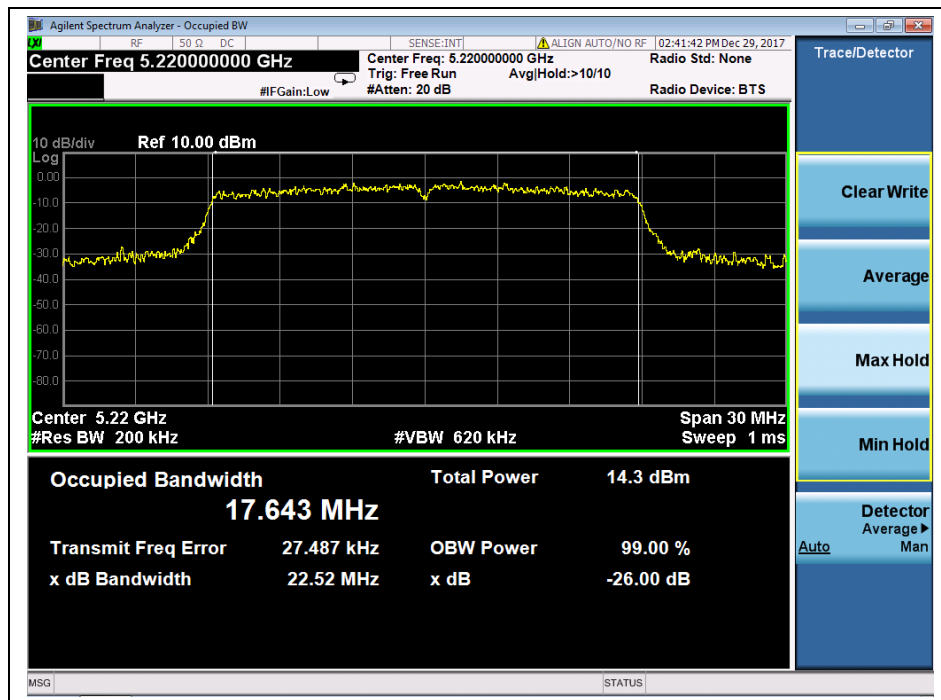
(Channel 165, 5825MHz, 802.11a)

**802.11n (HT20) Test mode****A. Test Verdict:**

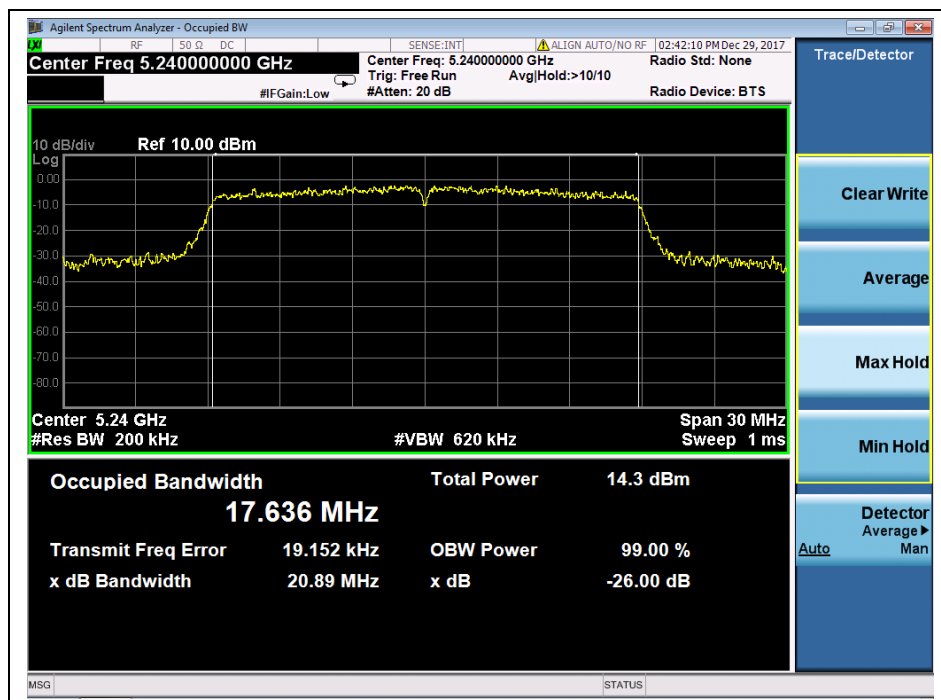
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	19.87
44	5220	22.52
48	5240	20.89
52	5260	20.11
60	5300	19.85
64	5320	20.06
100	5500	20.33
120	5600	20.38
140	5700	21.82
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
149	5745	17.61
157	5785	17.63
165	5825	17.62

B. Test Plots

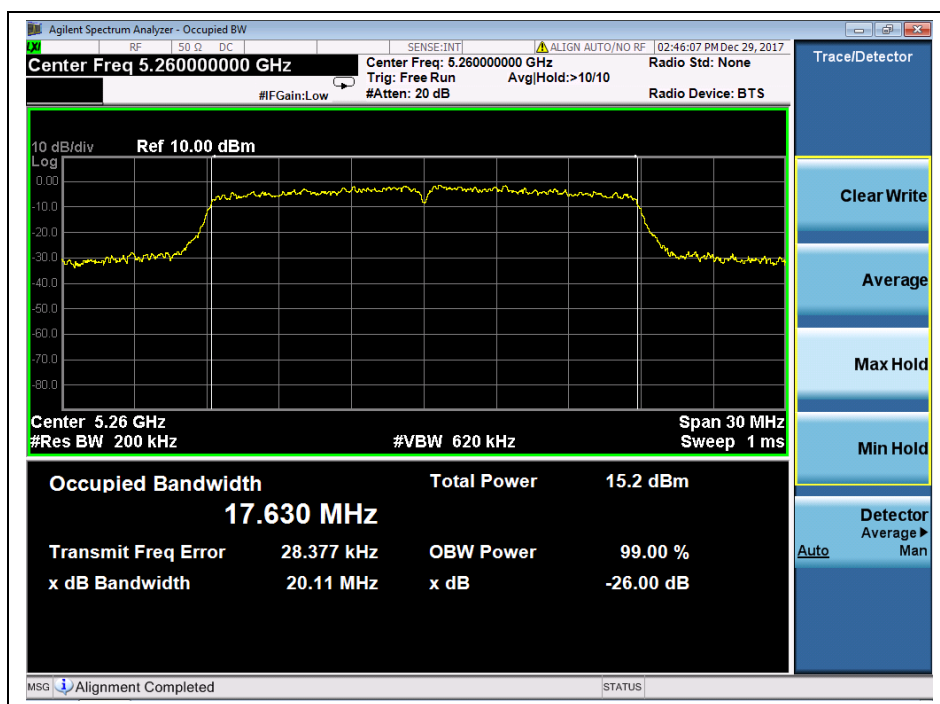
(Channel 36, 5180MHz, 802.11 n (HT20))



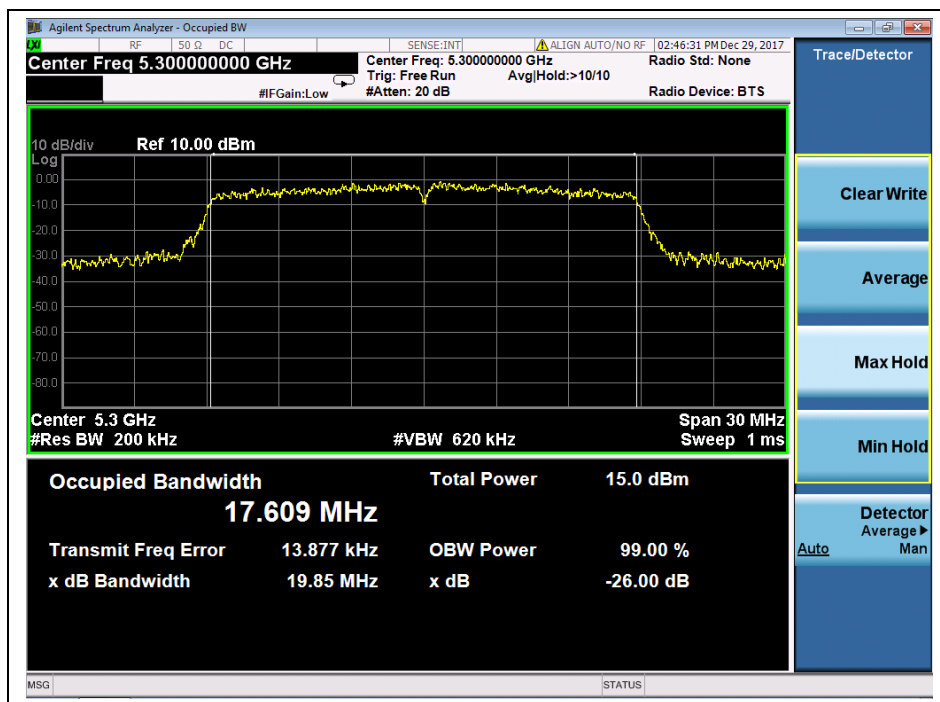
(Channel 44, 5220 MHz, 802.11 n (HT20))



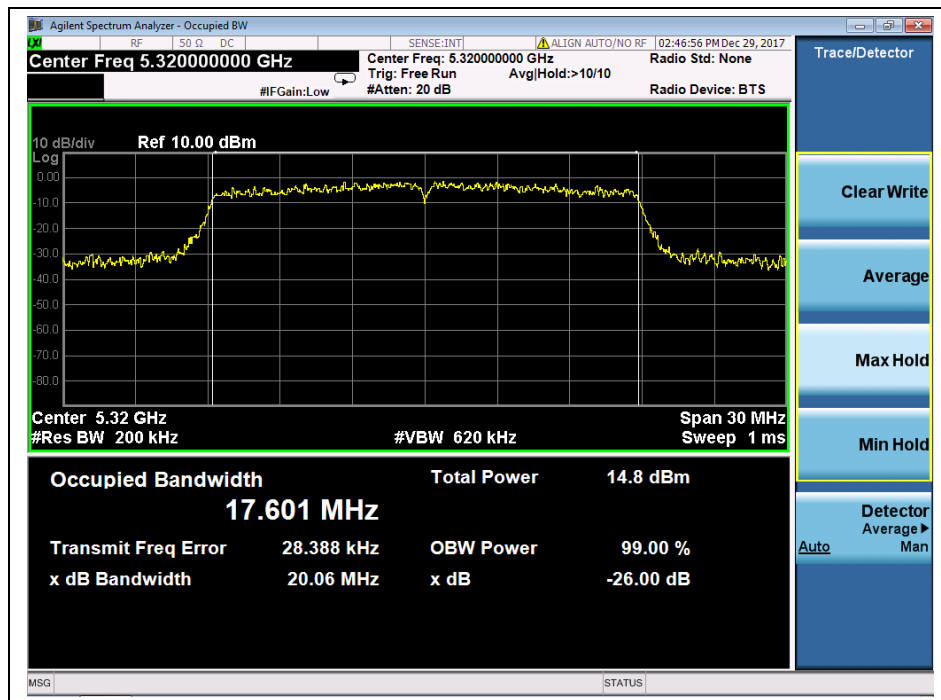
(Channel 48, 5240MHz, 802.11 n (HT20))



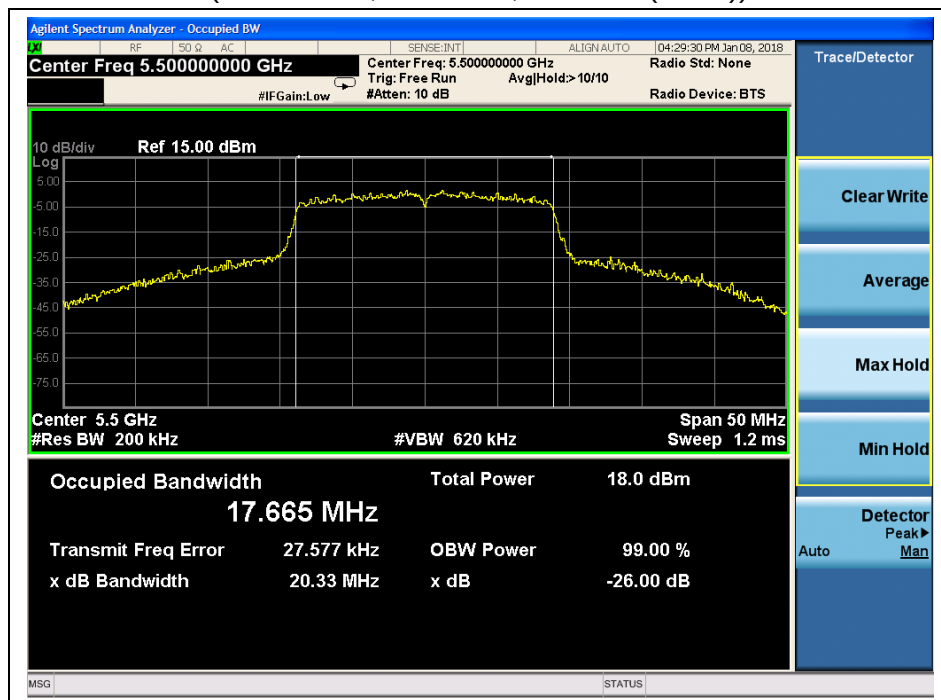
(Channel 52, 5260MHz, 802.11 n (HT20))



(Channel 60, 5300 MHz, 802.11 n (HT20))



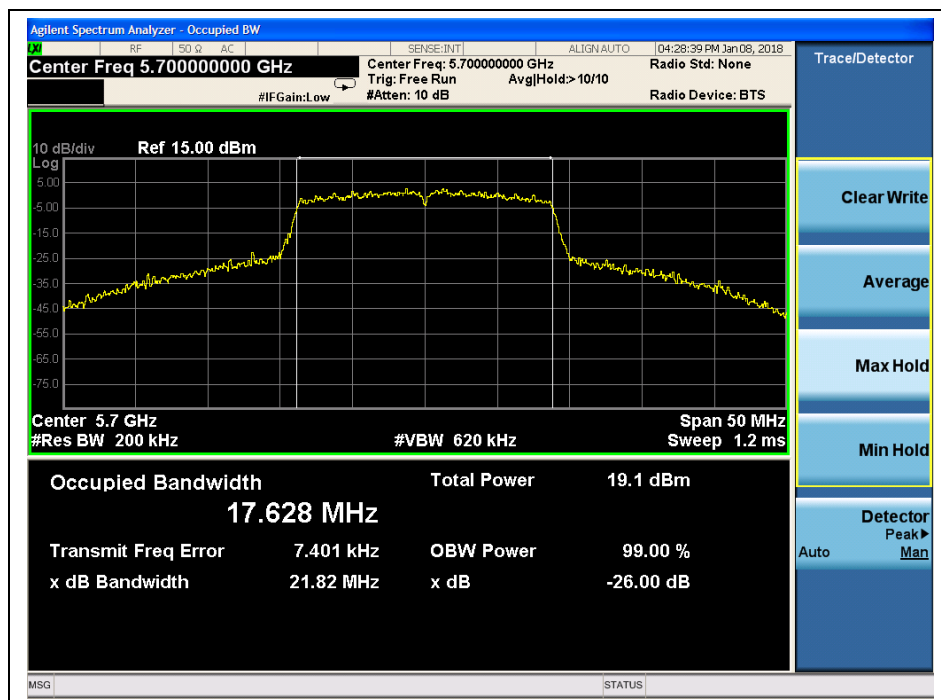
(Channel 64, 5320MHz, 802.11 n (HT20))



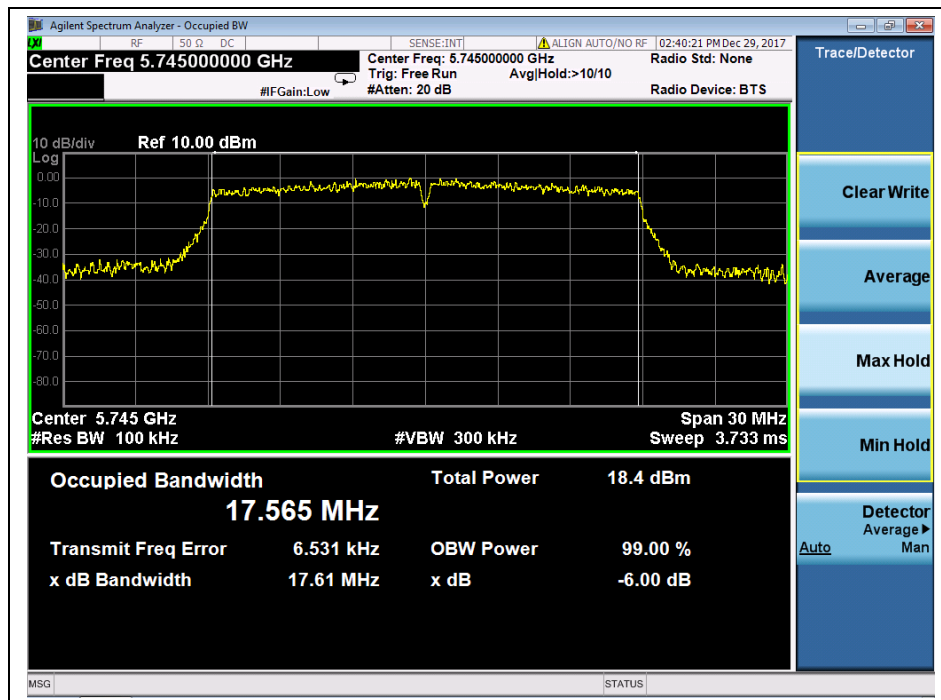
(Channel 100, 5500MHz, 802.11 n (HT20))



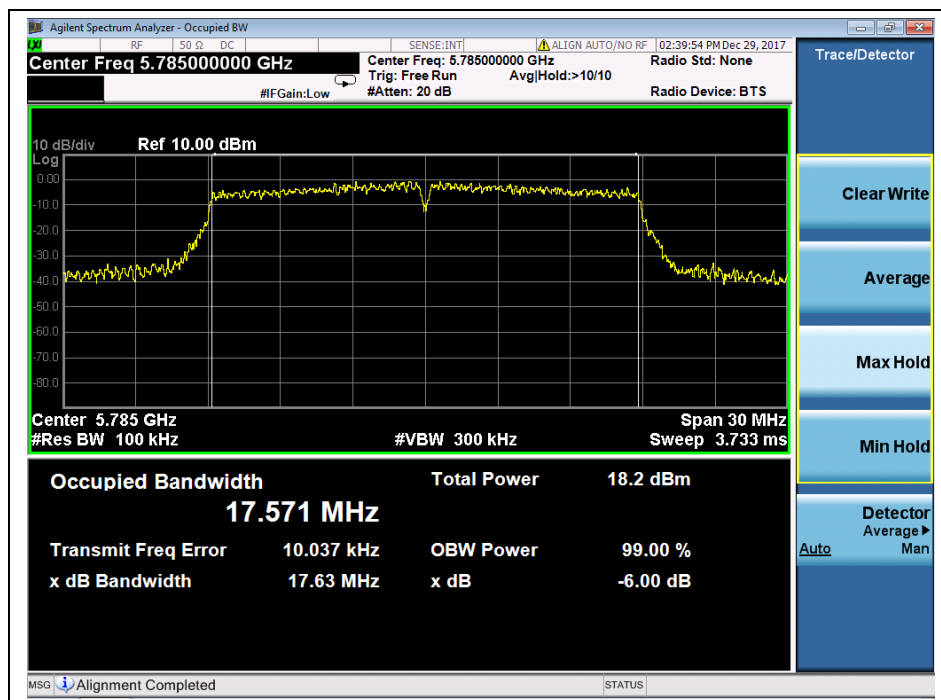
(Channel 120, 5600 MHz, 802.11 n (HT20))



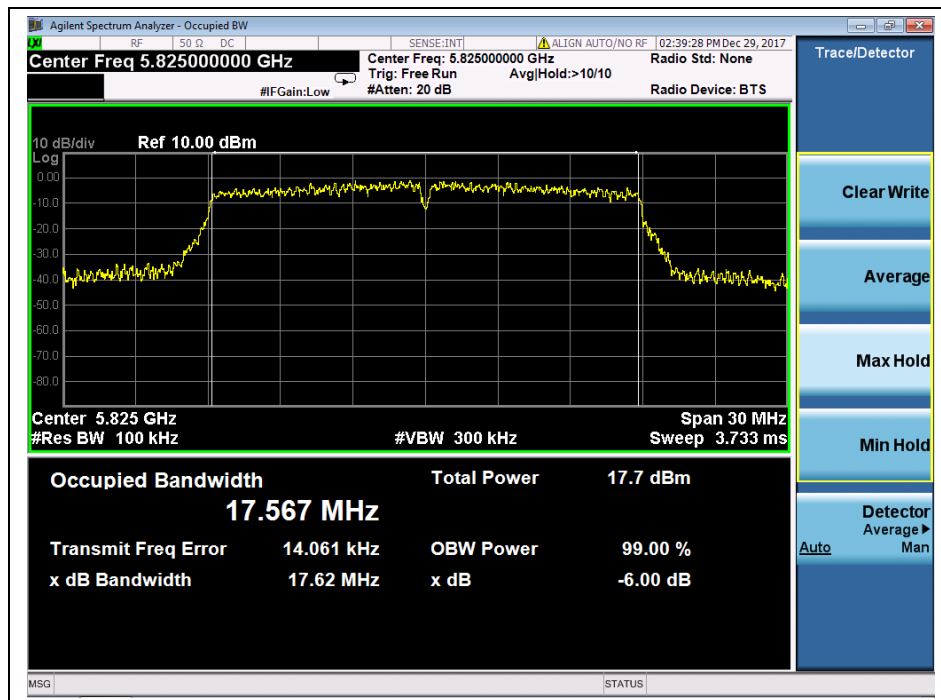
(Channel 140, 5700MHz, 802.11 n (HT20))



(Channel 149, 5745MHz, 802.11 n (HT20))



(Channel 157, 5785MHz, 802.11 n (HT20))



(Channel 165, 5825MHz, 802.11 n (HT20))



802.11n (HT40) Test mode

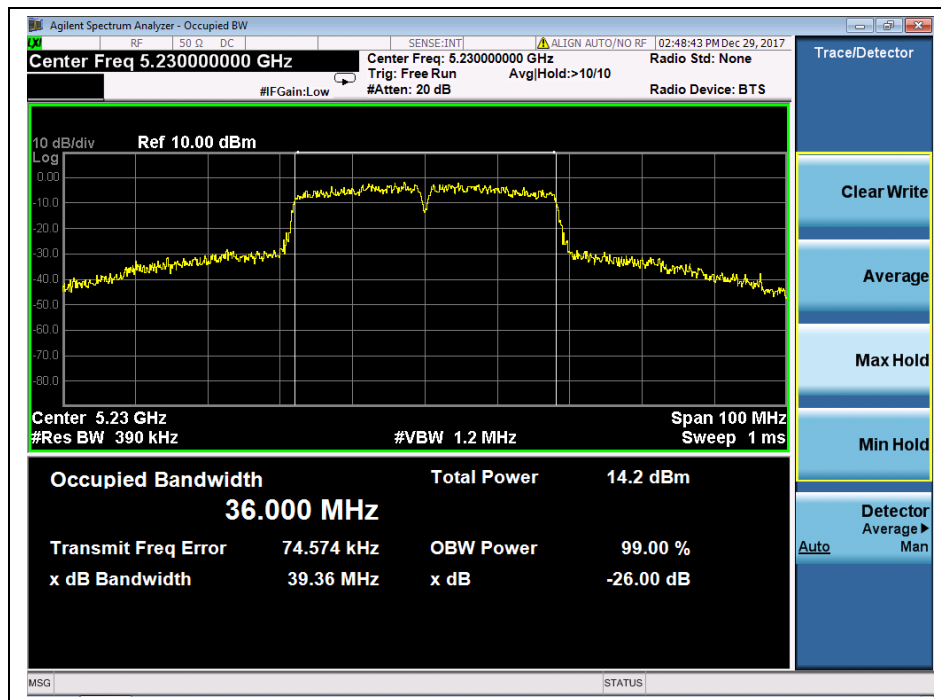
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
38	5190	48.50
46	5230	39.36
54	5270	39.41
62	5310	39.50
102	5510	60.11
126	5630	53.84
142	5710	53.63
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
151	5755	36.38
159	5795	36.41

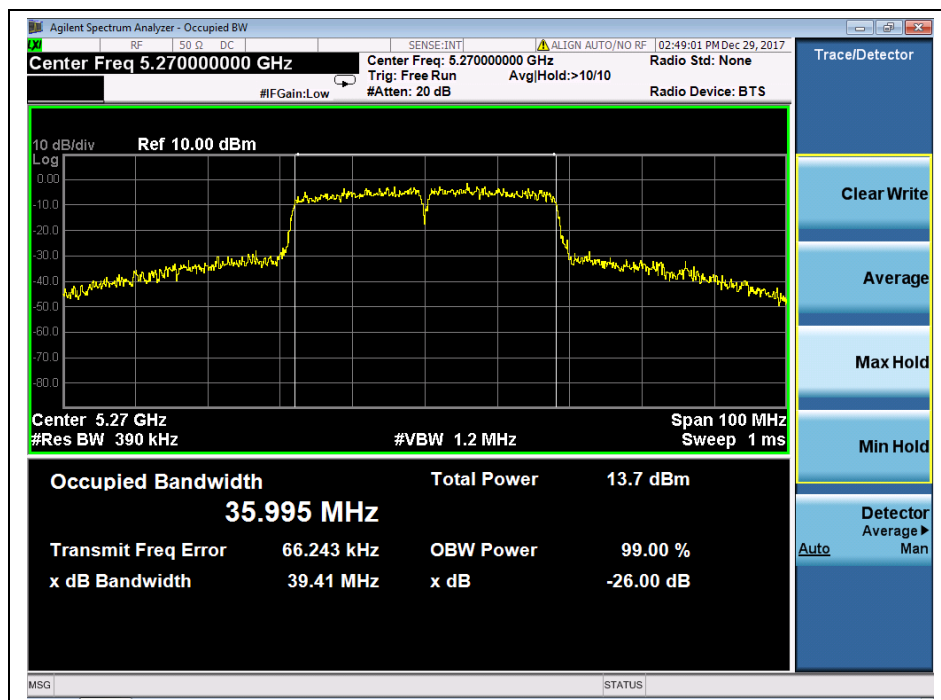
B. Test Plots



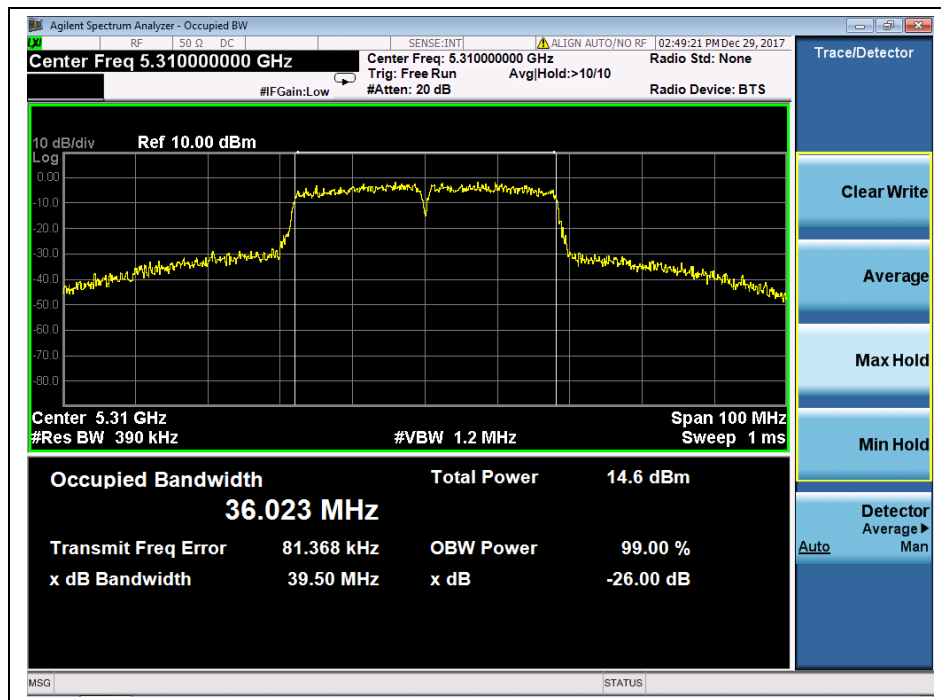
(Channel 38, 5190MHz, 802.11n (HT40))



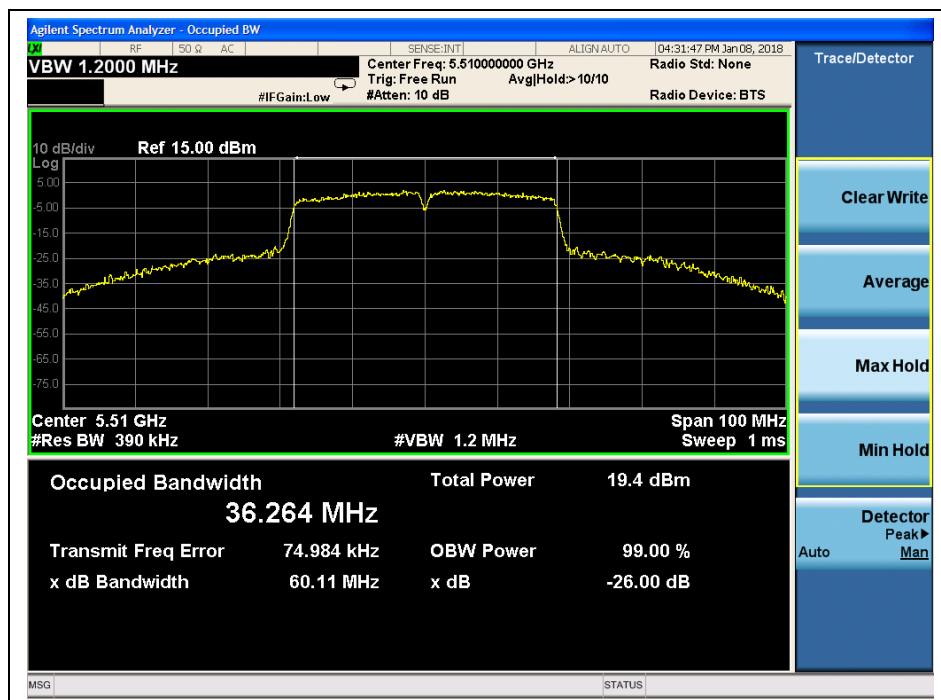
(Channel 46, 5230 MHz, 802.11n (HT40))



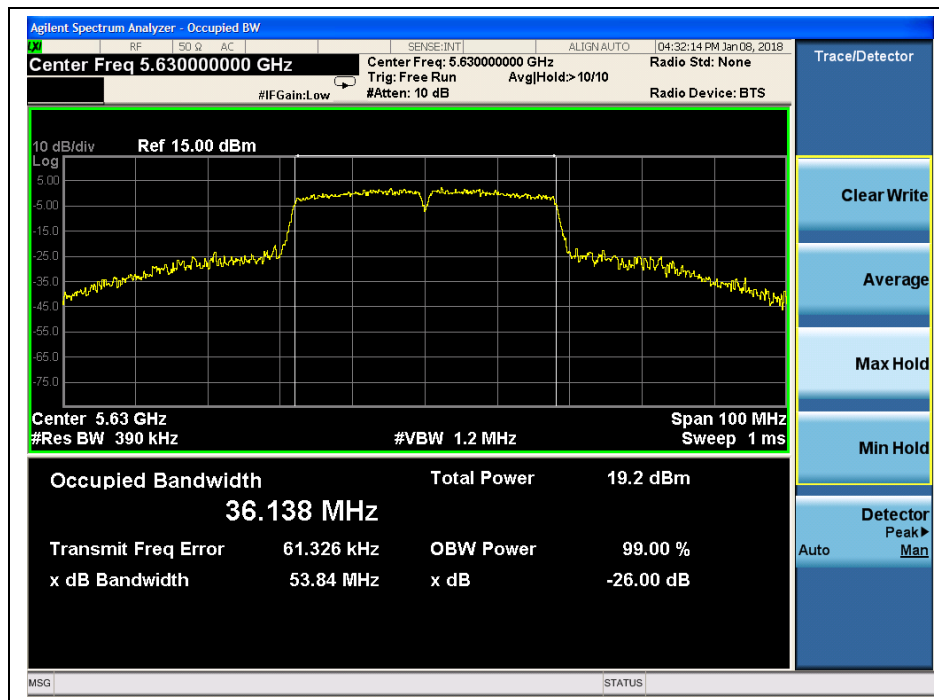
(Channel 54, 5270MHz, 802.11n (HT40))



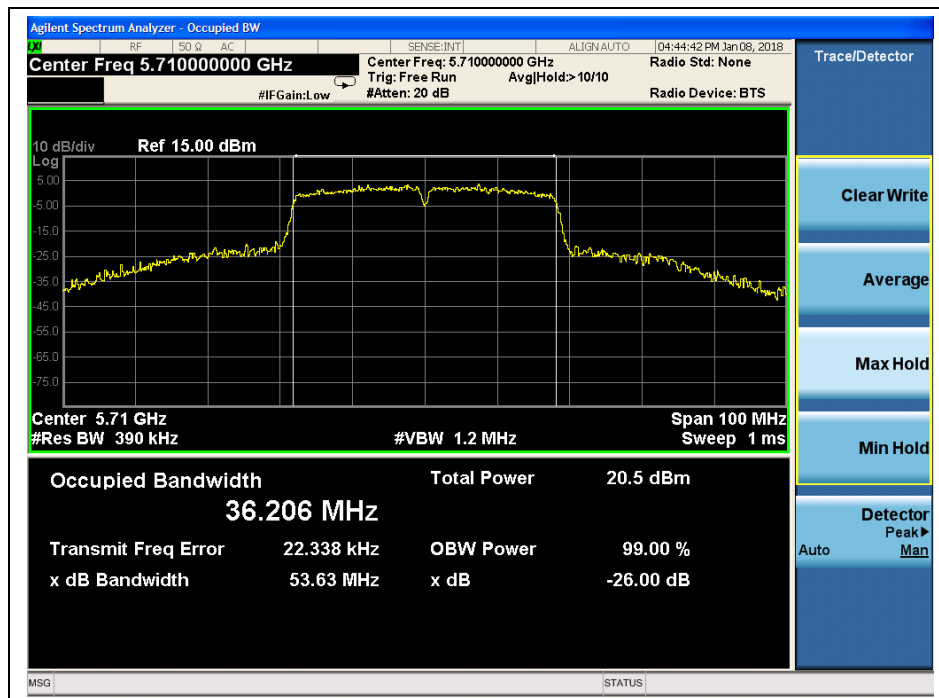
(Channel 62, 5310 MHz, 802.11n (HT40))



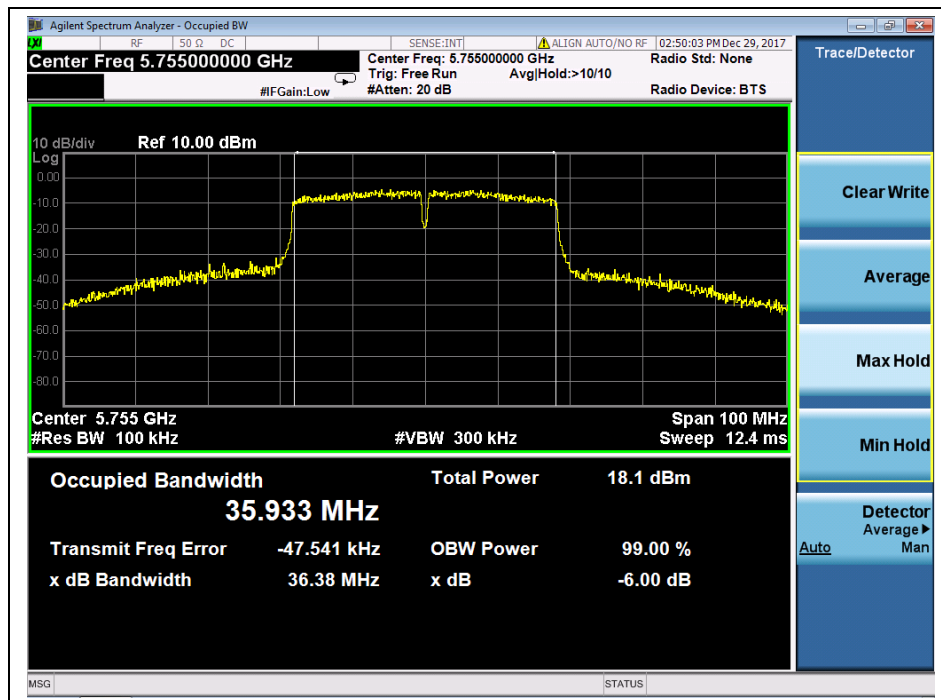
(Channel 102, 5510MHz, 802.11n (HT40))



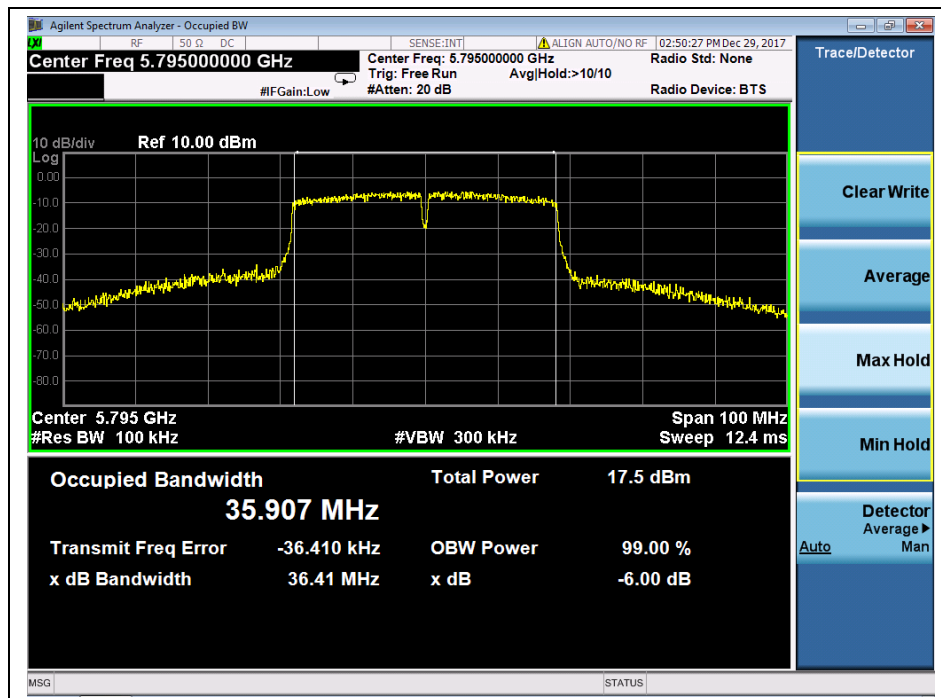
(Channel 126, 5630 MHz, 802.11n (HT40))



(Channel 142, 5710MHz, 802.11n (HT40))



(Channel 151, 5755 MHz, 802.11n (HT40))



(Channel 159, 5795MHz, 802.11n (HT40))

2.3. Maximum conducted output power

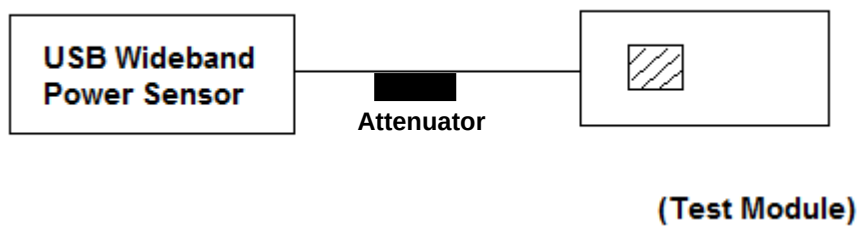
2.3.1. Requirement

- (1) For 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 250 mW or $11 \text{ dBm} + 10 \log B$, 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 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) According to KDB662911D01 Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in units that are directly proportional to power.
- (4) According to KDB 662911 D01, the directional gain = $G_{\text{ANT}} + 10 \log(N_{\text{ANT}})$ dBi, where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

2.3.2. Test Description

Section E) 3) of KDB 789033 defines a methodology using a USB Wideband Power Sensor.

A. Test Setup:



The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; 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 USB Wideband Power Sensor.

**2.3.3. Test Result****802.11a Test mode**

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
36	5180	16.61	24	PASS
44	5220	16.96		
48	5240	17.38		
52	5260	17.50		
60	5300	17.96		
64	5320	18.50		
100	5500	18.49		
116	5600	19.35		
140	5700	19.45		
149	5745	22.28	30	
157	5785	22.11		
165	5825	21.87		

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit 11 dBm + 10 log B (dBm)	Verdict
52	5260	17.50	24.00	PASS
60	5300	17.96	23.90	
64	5320	18.50	24.00	
100	5500	18.49	24.00	
116	5600	19.35	24.00	
140	5700	19.45	23.93	



Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit (dBm)	Verdict
36	5180	8.24	24	PASS
44	5220	8.86		
48	5240	9.80		
52	5260	9.54		
60	5300	9.64		
64	5320	10.19		
100	5500	10.25		
116	5600	11.42		
140	5700	10.89		
149	5745	13.67	30	
157	5785	13.02		
165	5825	13.02		

Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit 11 dBm + 10 log B (dBm)	Verdict
52	5260	9.54	24.00	PASS
60	5300	9.64	23.90	
64	5320	10.19	24.00	
100	5500	10.25	24.00	
116	5600	11.42	24.00	
140	5700	10.89	23.93	

**802.11n (HT20) Test mode**

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
36	5180	17.83	24	PASS
44	5220	17.21		
48	5240	17.00		
52	5260	17.47		
60	5300	17.64		
64	5320	18.41		
100	5500	17.90		
116	5600	19.59		
140	5700	19.72		
149	5745	22.06	30	
157	5785	21.22		
165	5825	22.07		

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit 11 dBm + 10 log B (dBm)	Verdict
52	5260	17.47	24.00	PASS
60	5300	17.64	23.98	
64	5320	18.41	24.00	
100	5500	17.90	24.00	
116	5600	19.59	24.00	
140	5700	19.72	24.00	



Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit (dBm)	Verdict
36	5180	8.56	24	PASS
44	5220	9.23		
48	5240	9.14		
52	5260	9.28		
60	5300	9.79		
64	5320	10.19		
100	5500	9.91		
116	5600	10.97		
140	5700	11.10		
149	5745	13.69	30	
157	5785	13.01		
165	5825	13.04		

Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit 11 dBm + 10 log B (dBm)	Verdict
52	5260	9.28	24.00	PASS
60	5300	9.79	23.98	
64	5320	10.19	24.00	
100	5500	9.91	24.00	
116	5600	10.97	24.00	
140	5700	11.10	24.00	

**802.11n (HT40) Test mode**

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
38	5190	15.87	24	PASS
46	5230	16.56		
54	5270	17.21		
62	5310	17.637		
102	5510	17.67		
126	5630	18.67		
142	5710	19.13		
151	5755	21.71	30	
159	5795	21.34		

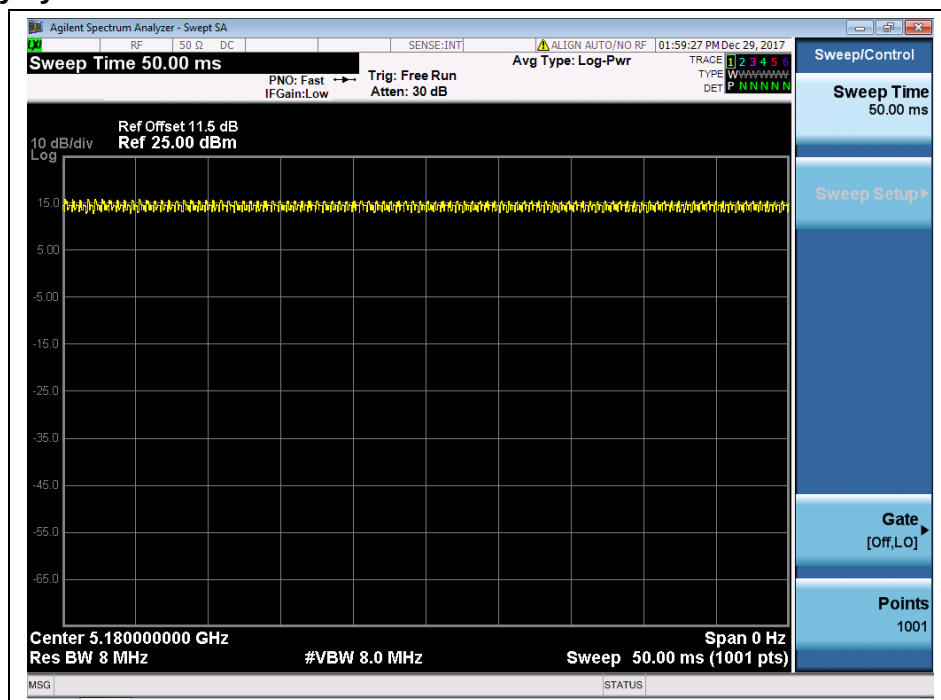
Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit 11 dBm + 10 log B (dBm)	Verdict
54	5270	17.21	24.00	PASS
62	5310	17.637	24.00	
102	5510	17.67	24.00	
126	5630	18.67	24.00	
142	5710	19.13	24.00	



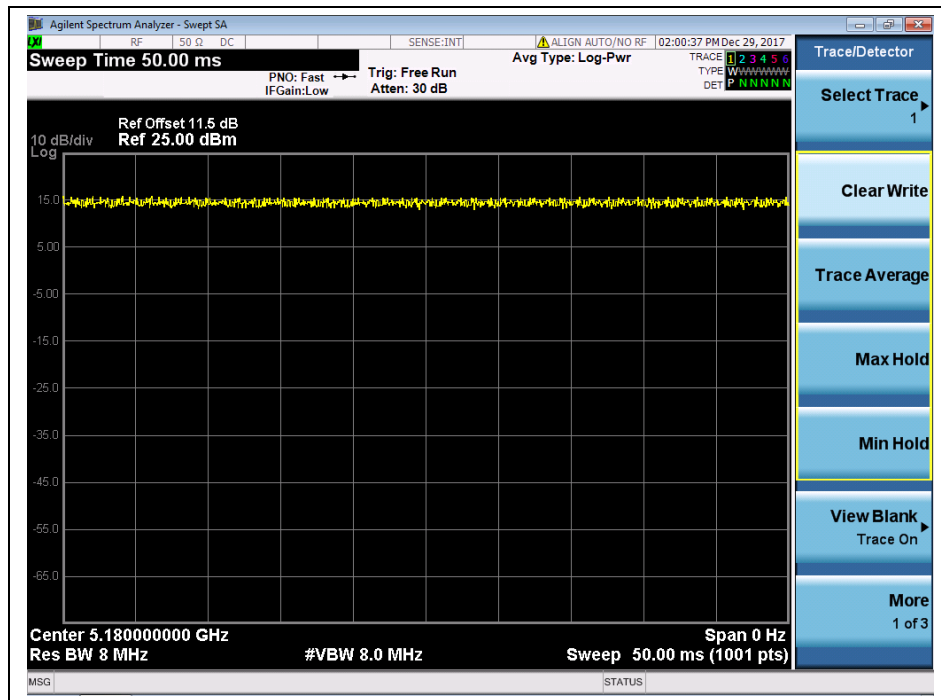
Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit (dBm)	Verdict
38	5190	8.27	24	PASS
46	5230	9.34		
54	5270	9.59		
62	5310	10.07		
102	5510	9.87		
126	5630	10.98		
142	5710	11.08		
151	5755	13.55	30	
159	5795	12.95		

Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit 11 dBm + 10 log B (dBm)	Verdict
54	5270	9.59	24.00	PASS
62	5310	10.07	24.00	
102	5510	9.87	24.00	
126	5630	10.98	24.00	
142	5710	11.08	24.00	

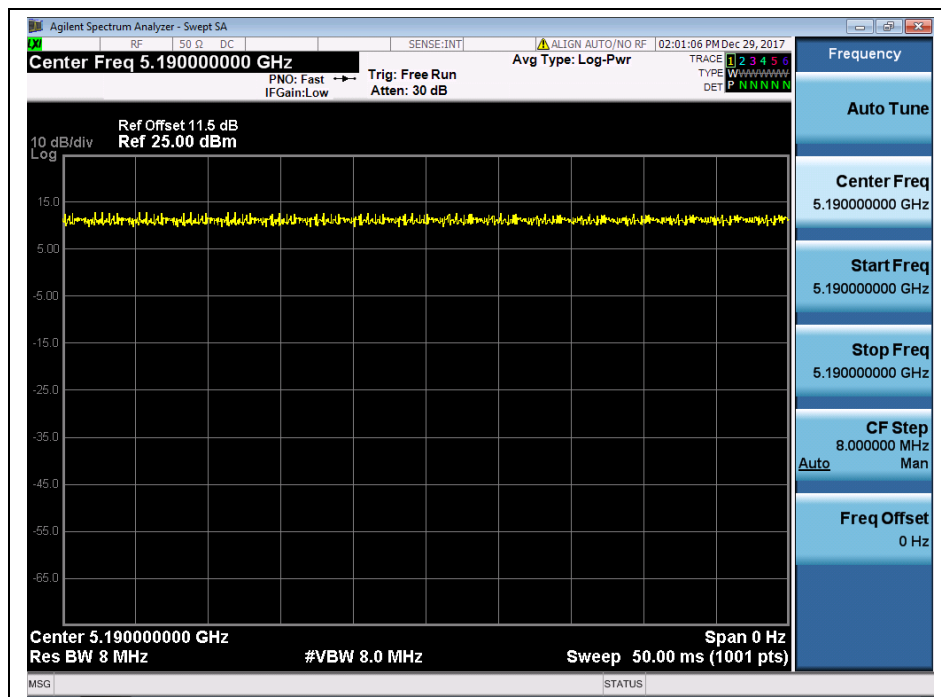
Plot for duty cycle



(Duty cycle for 802.11 a)



(Duty cycle for 802.11 n(HT20))



(Duty cycle for 802.11 n(HT40))

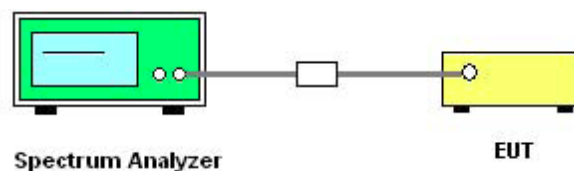
2.4. Peak Power spectral density

2.4.1. Requirement

- (1) For 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. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) 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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) According to KDB662911D01 Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in units that are directly proportional to power.
- (4) According to KDB 662911 D01, the directional gain = $G_{ANT} + 10\log(N_{ANT})$ dBi, where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

2.4.2. Test Description

A. Test Set:



The EUT 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 $\geq$ 3 MHz.
- 3) Number of points in sweep $\geq$ 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

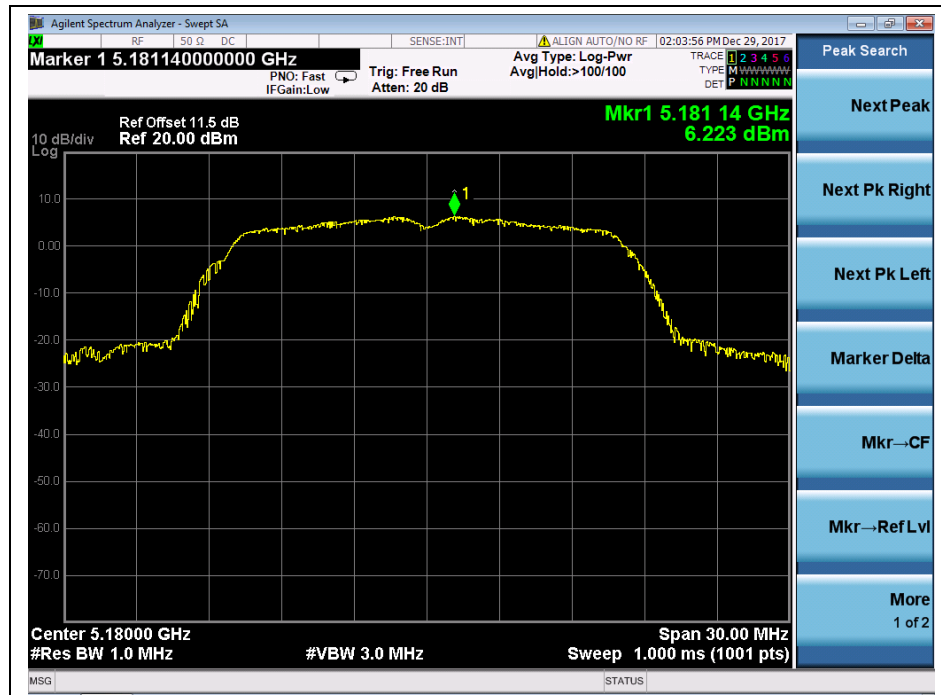
2.4.3. Test Result

802.11a Test mode

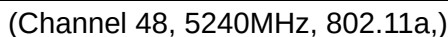
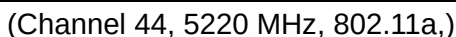
A. Test Verdict:

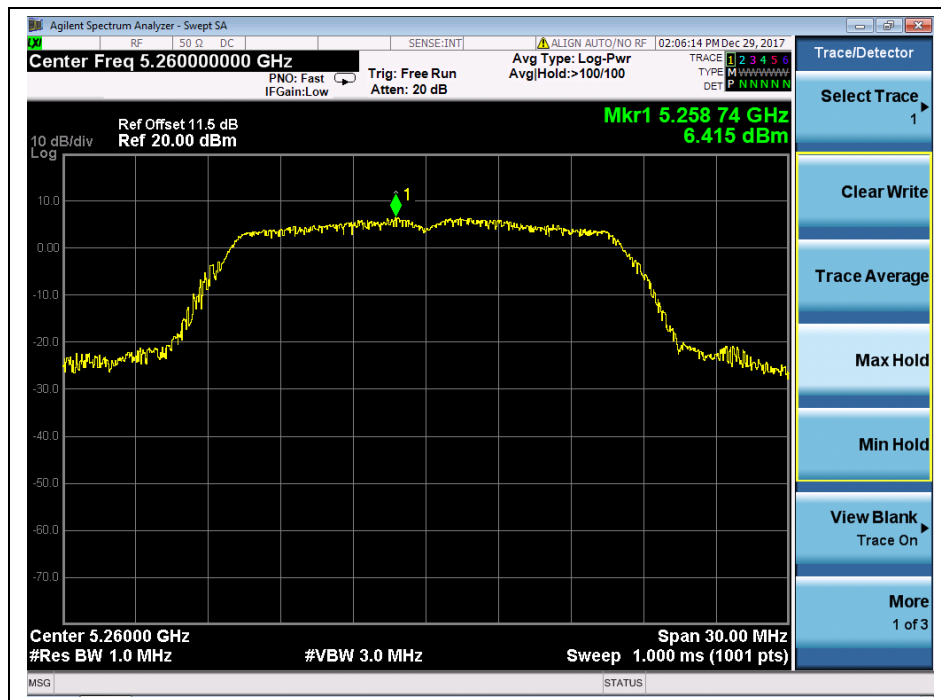
Channel	Frequency (MHz)	Measured PPSP (dBm/MHz)	Limit (dBm/MHz)	Verdict
36	5180	6.22	11	PASS
44	5220	6.44		
48	5240	6.27		
52	5260	6.42		
60	5300	7.47		
64	5320	7.06		
100	5500	9.11		
116	5600	9.72		
140	5700	9.72		
Channel	Frequency (MHz)	Measured PPSP (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
149	5745	8.29	30	PASS
157	5785	7.51		
165	5825	7.28		

B. Test Plots

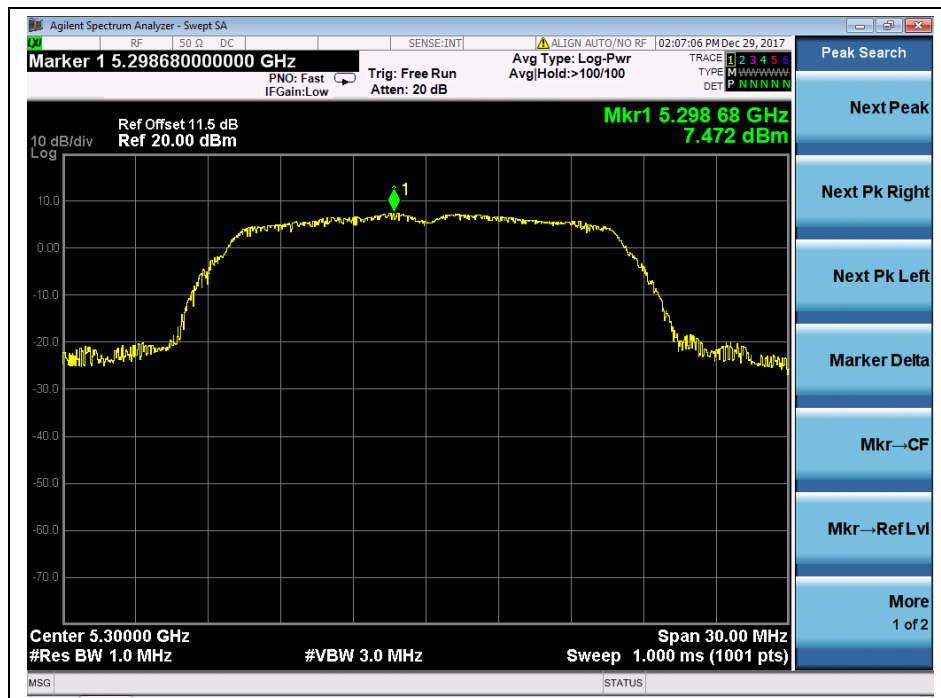


(Channel 36, 5180MHz, 802.11a,)

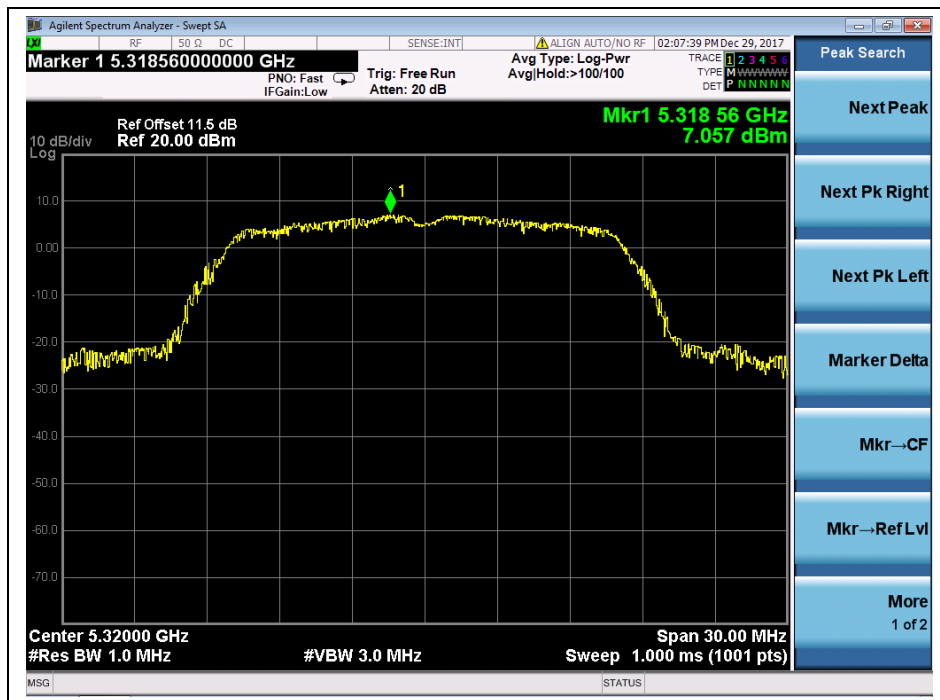




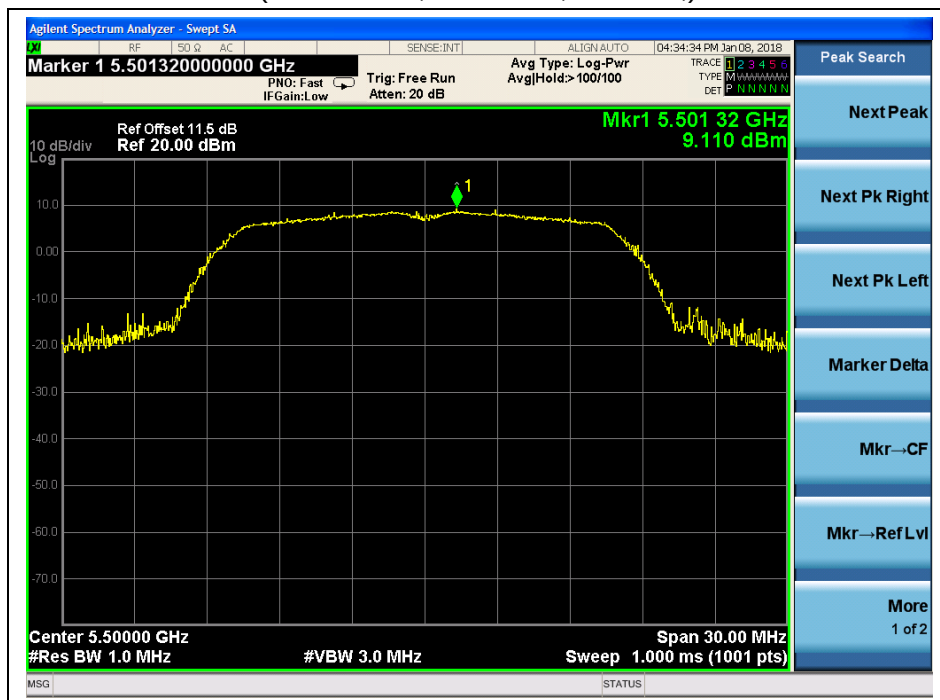
(Channel 52, 5260MHz, 802.11a,)



(Channel 60, 5300 MHz, 802.11a,)



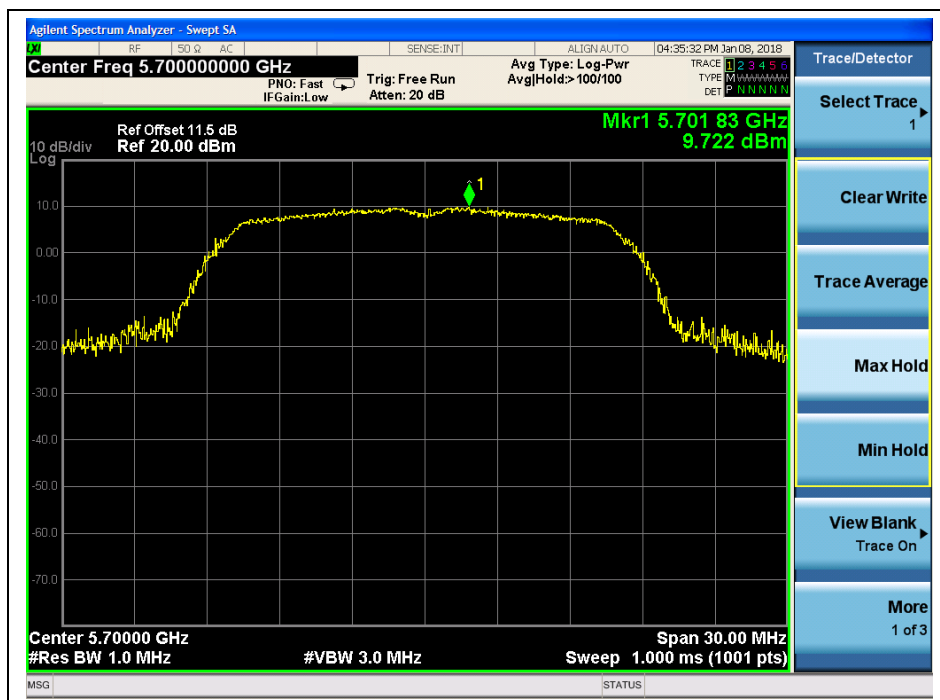
(Channel 64, 5320MHz, 802.11a,)



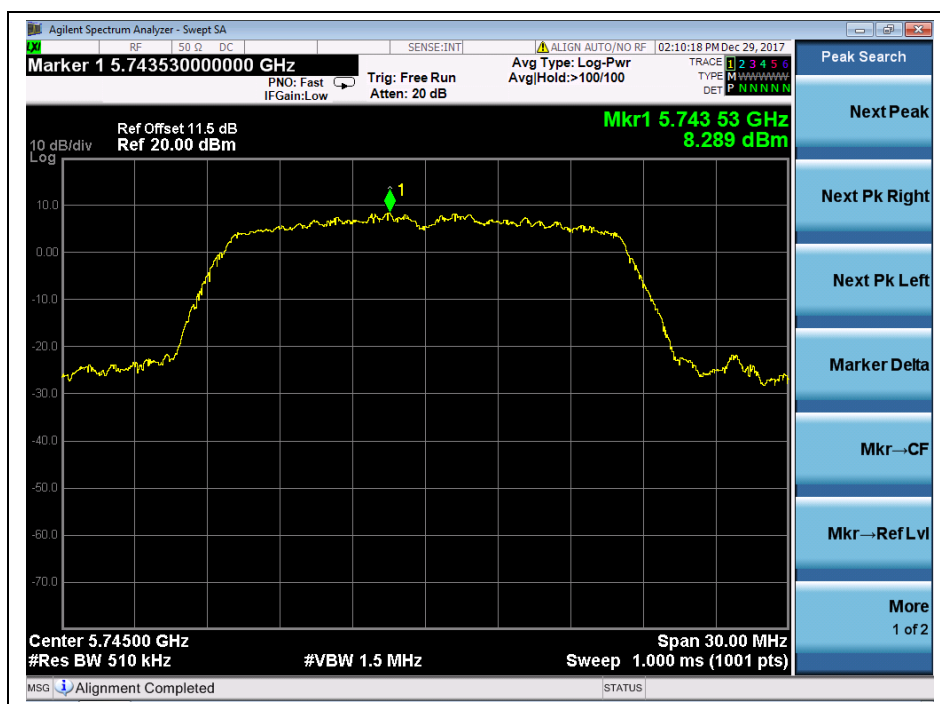
(Channel 100, 5500MHz, 802.11a,)



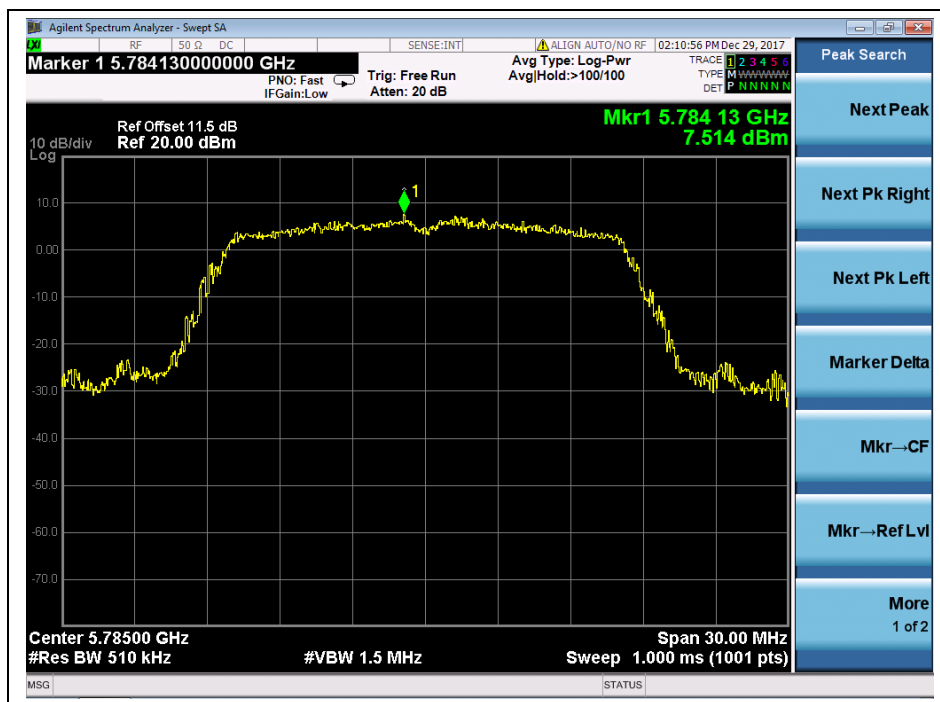
(Channel 120, 5600 MHz, 802.11a,)



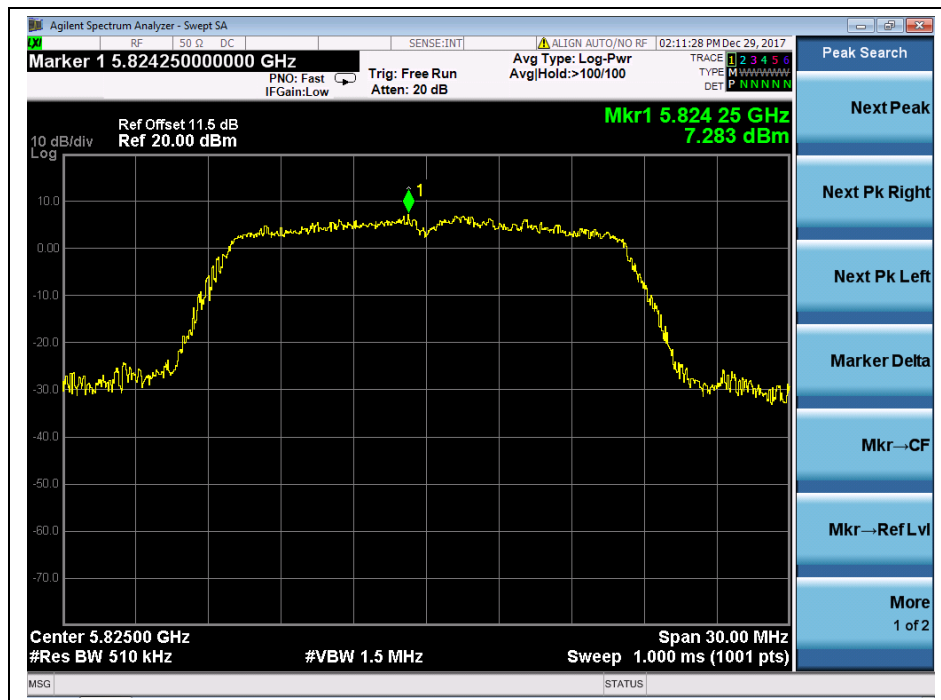
(Channel 140, 5700MHz, 802.11a,)



(Channel 149, 5745MHz, 802.11a)



(Channel 157, 5785MHz, 802.11a)



(Channel 165, 5825MHz, 802.11a)

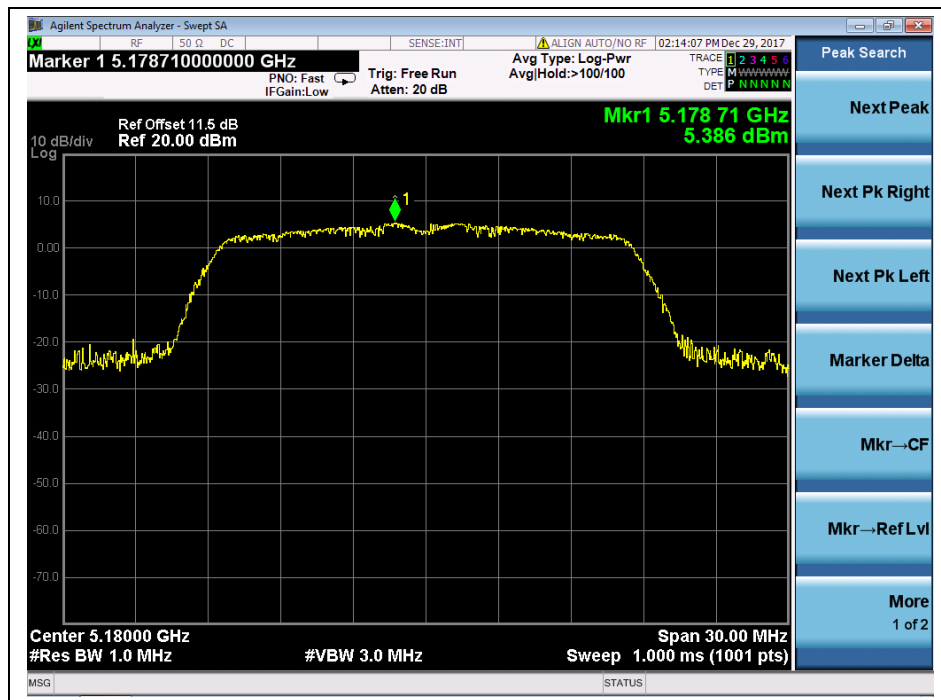


802.11n (HT20) Test mode

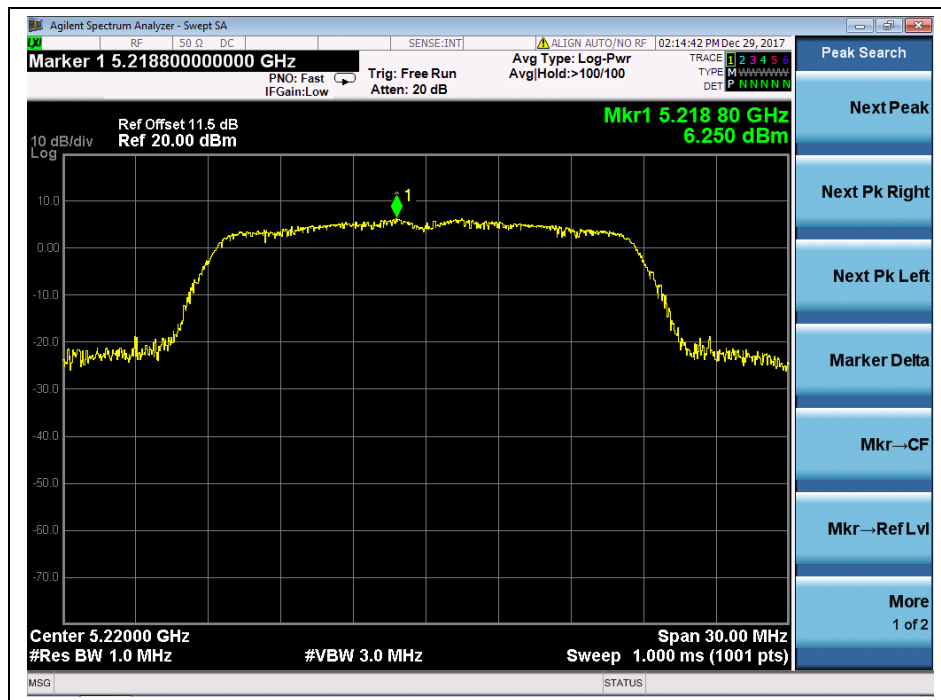
A. Test Verdict:

Channel	Frequency (MHz)	Measured PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
36	5180	5.39	11	PASS
44	5220	6.25		
48	5240	6.19		
52	5260	6.43		
60	5300	6.46		
64	5320	6.96		
100	5500	8.52		
116	5600	10.19		
140	5700	10.12		
Channel	Frequency (MHz)	Measured PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
149	5745	8.18	30	PASS
157	5785	7.63		
165	5825	7.06		

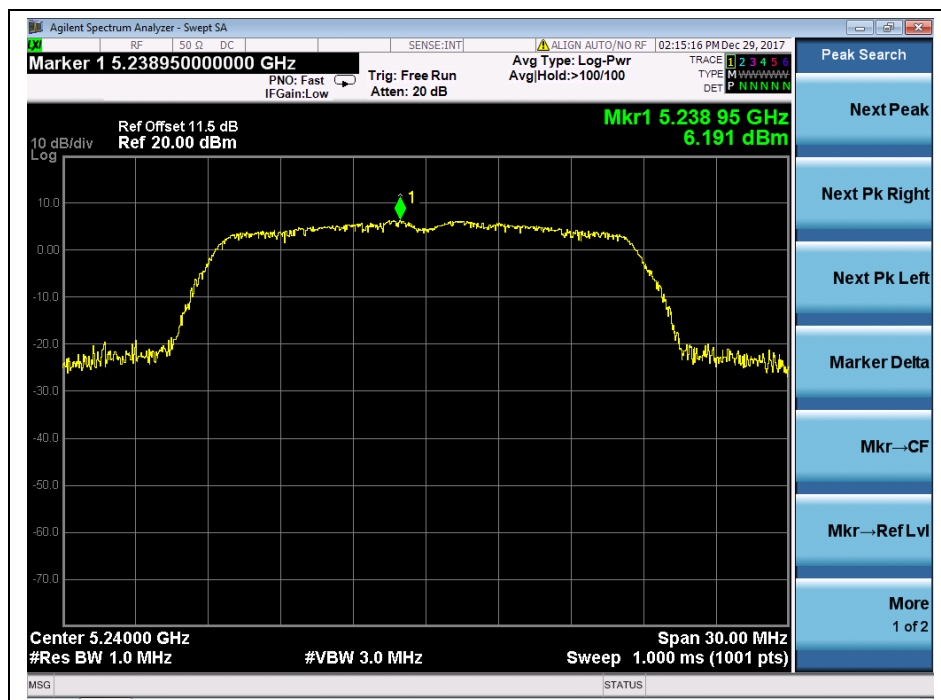
B. Test Plots



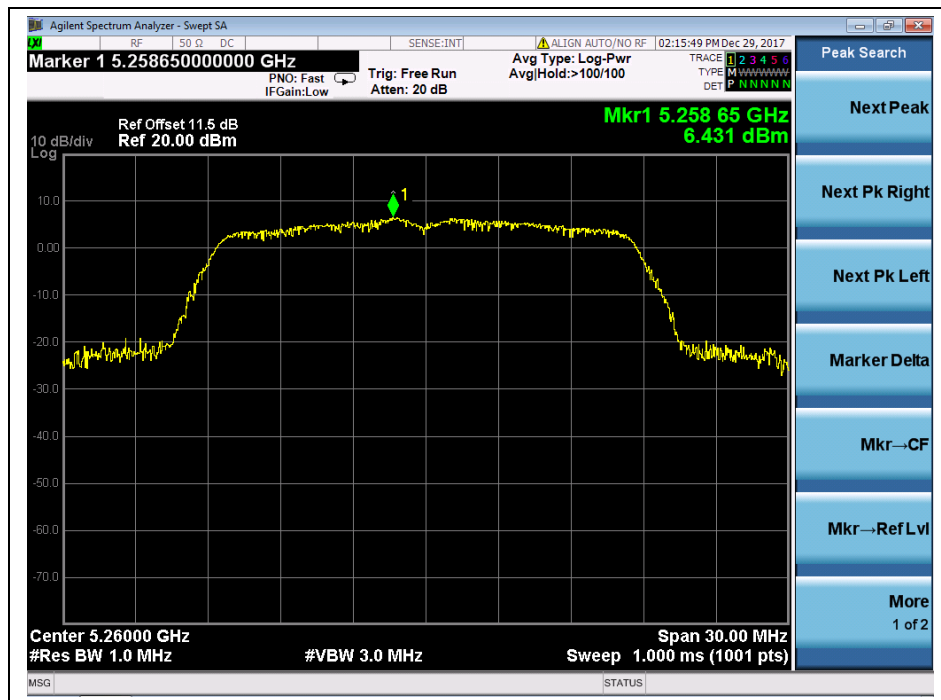
(Channel 36, 5180MHz, 802.11 n (HT20))



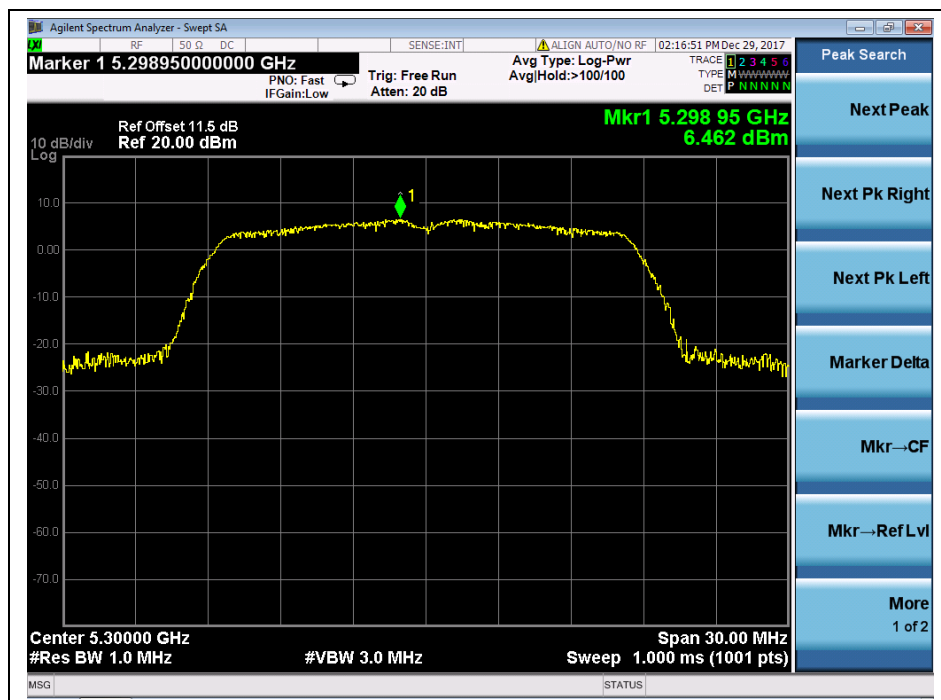
(Channel 44, 5220 MHz, 802.11 n (HT20))



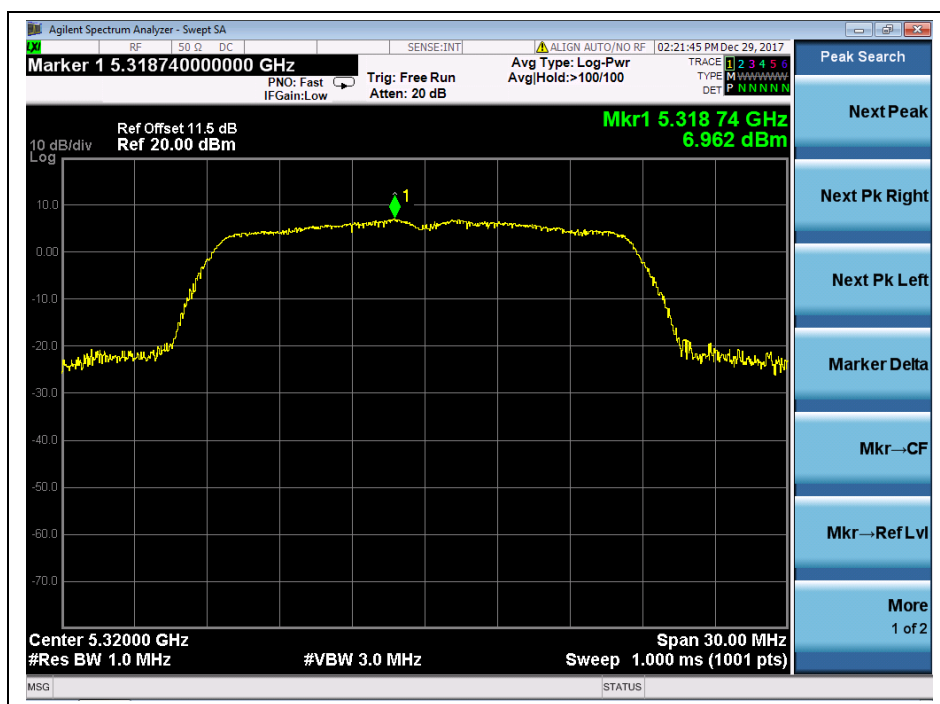
(Channel 48, 5240MHz, 802.11 n (HT20))



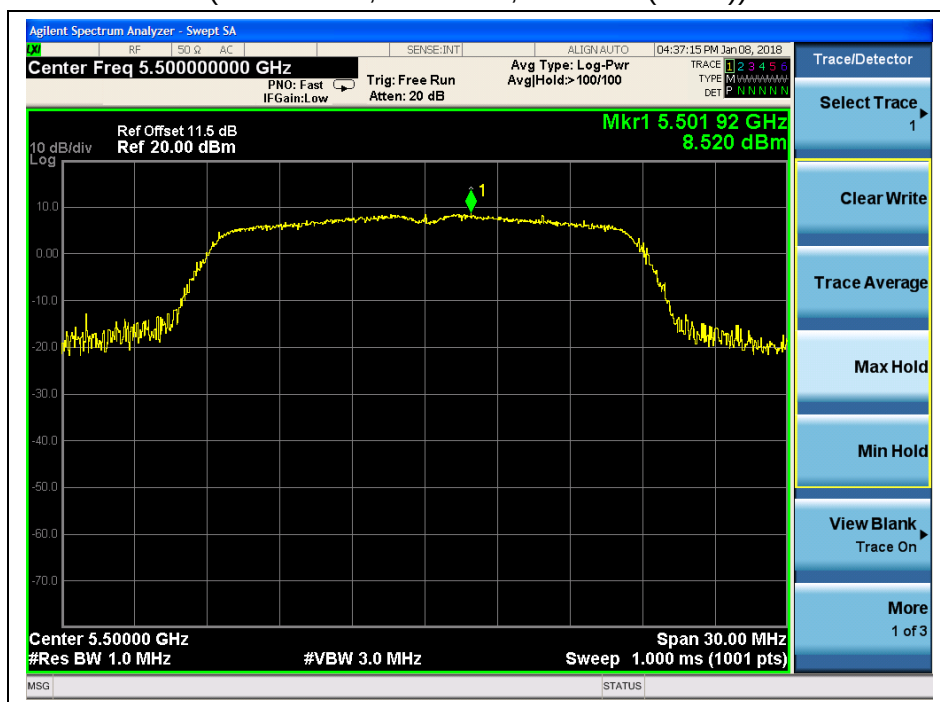
(Channel 52, 5260MHz, 802.11 n (HT20))



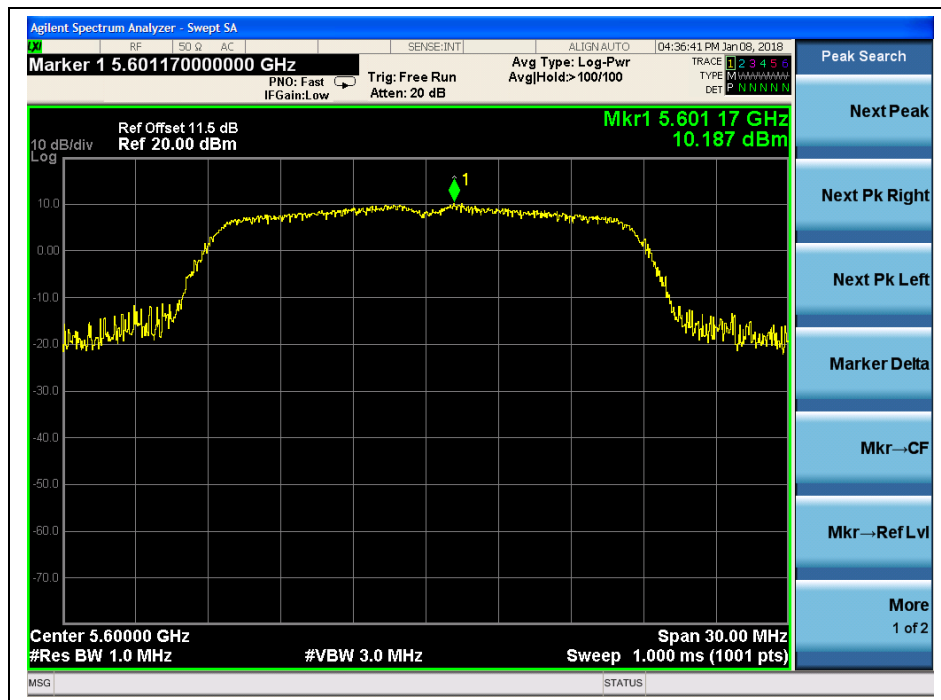
(Channel 60, 5300 MHz, 802.11 n (HT20))



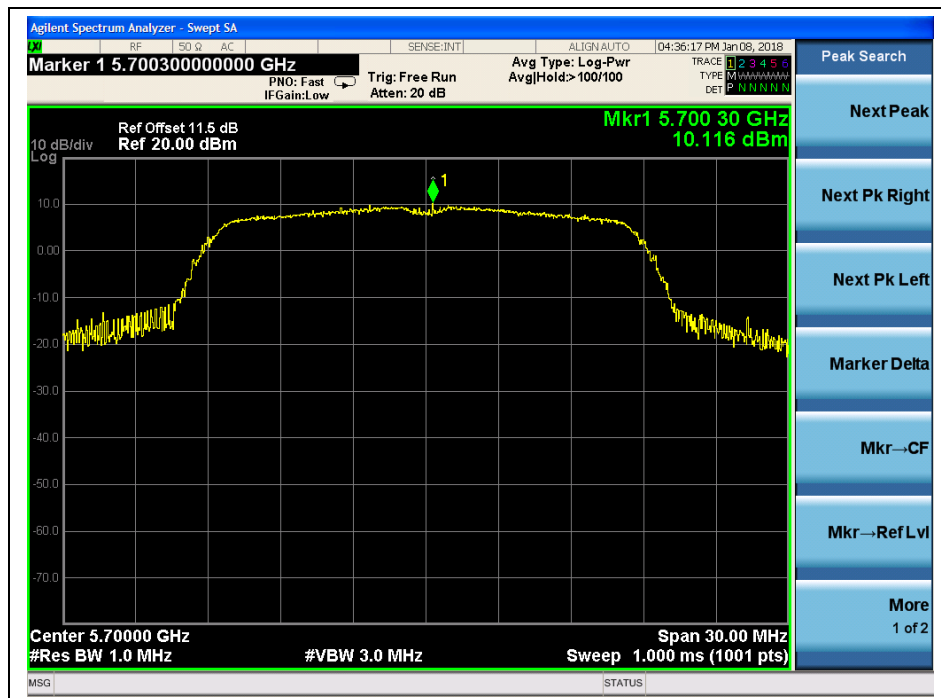
(Channel 64, 5320MHz, 802.11 n (HT20))



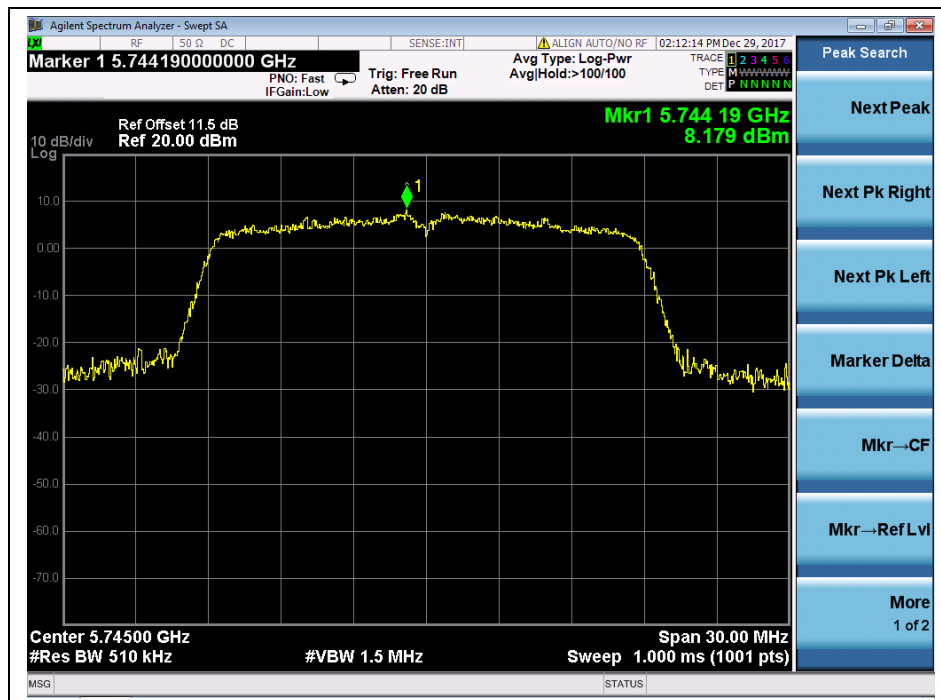
(Channel 100, 5500MHz, 802.11 n (HT20))



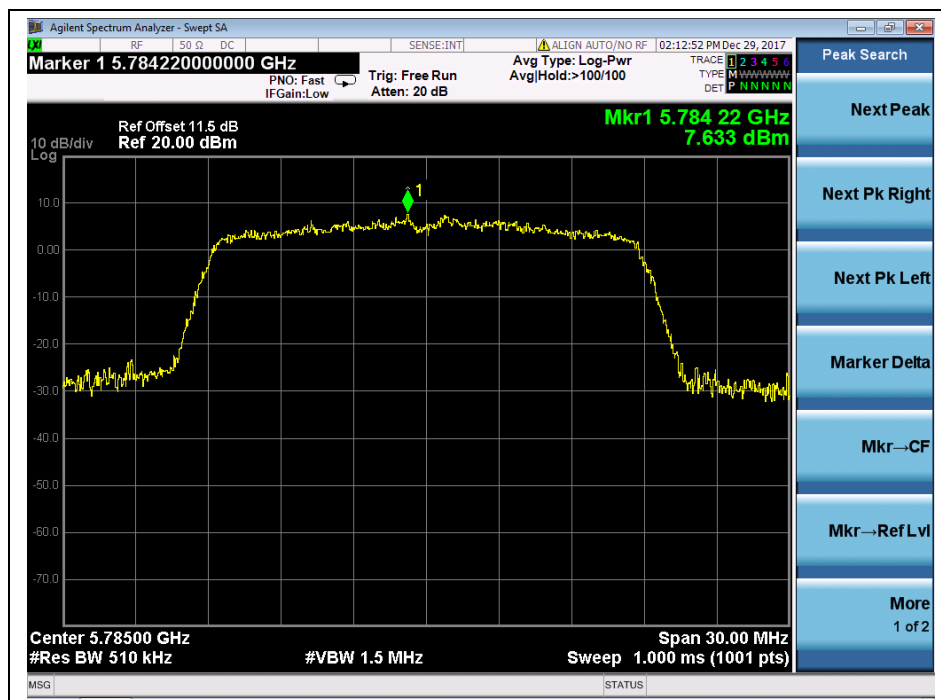
(Channel 120, 5600 MHz, 802.11 n (HT20))



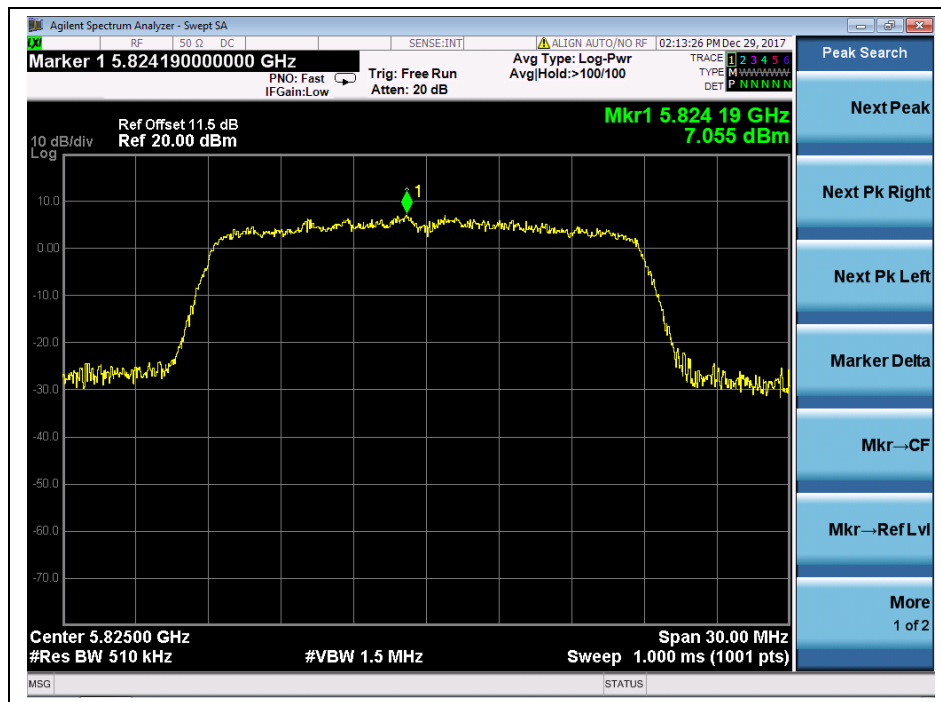
(Channel 140, 5700MHz, 802.11 n (HT20))



(Channel 149, 5745MHz, 802.11 n (HT20))



(Channel 157, 5785MHz, 802.11 n (HT20))



(Channel 165, 5825MHz, 802.11 n (HT20))