



**FCC PART 15E  
TEST REPORT  
No. I19N00570-RLAN**

**for**

**Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd**

**smartphone**

**cp3705AS**

**with**

**Hardware Version: P0**

**Software Version: 9.0.3705AS.SPRINT.190408.1D**

**FCC ID: R38YLCP3705AS**

**Issued Date: 2019-04-28**

**Designation Number: CN1210**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I19N00570-RLAN	Rev.0	1st edition	2019-04-28

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## **1. TEST LATORATORY**

### **1.1. Testing Location**

Location: Shenzhen Academy of Information and Communications Technology  
Address: Building G, Shenzhen International Innovation Center, No.1006  
Shennan Road, Futian District, Shenzhen, Guangdong Province ,China  
Postal Code: 518026  
Telephone: +86(0)755-33322000  
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### **1.2. Testing Environment**

Normal Temperature: 15-35℃  
Relative Humidity: 20-75%

### **1.3. Project data**

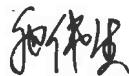
Testing Start Date: 2019-03-29  
Testing End Date: 2019-04-28

### **1.4. Signature**



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An Ran  
(Prepared this test report)



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Tang Weisheng  
(Reviewed this test report)



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Zhang Bojun  
(Approved this test report)

## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd  
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Telephone: +86 15927320221  
Fax: /

### **2.2. Manufacturer Information**

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd  
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Contact Person Yentl Chen  
E-Mail Chenyanting@yulong.com  
Telephone: +86 15927320221  
Fax: /

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	smartphone
Model Name	cp3705AS
Market Name	/
RLAN Frequency Range	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz -5725MHz~5850MHz
RLAN Protocol	IEEE 802.11a,802.11n-HT20/40,802.11ac-VHT20/40/80
Type of modulation	OFDM
Antenna Type	Integrated
Antenna Gain	0.23dBi
Power Supply	3.85V DC by Battery
FCC ID	R38YLCP3705AS
Condition of EUT as received	No abnormality in appearance

#### **3.2. Internal Identification of EUT**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>	<b>Receive Date</b>
EUT1	990013490001984	P0	9.0.3705AS.SPRINT.1904 08.1D	2019-03-27

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>	<b>Mode</b>	<b>Manufacturer</b>
AE1	Quick Charger 3.0	Q3W18-1U-A	Shenzhen Ruide
AE2	Battery	Li-ion Polymer	Tianjin Lishen
AE3	Battery	Li-ion Polymer	Zhuhai Coslight

\*AE ID: is used to identify the test sample in the lab internally.

#### **3.4. General Description**

The Equipment under Test (EUT) is a model of Tablet with integrated antenna and inbuilt battery. It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

## **4. REFERENCE DOCUMENTS**

### **4.1. Documents supplied by applicant**

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part15	FCC CFR 47,Part 15,Subpart C FCC CFR 47,Part 15,Subpart E	2017
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB789033	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E	V02r01

## 5. SUMMARY OF TEST RESULTS

### 5.1. Summary of Test Results

No.	Test cases	Sub-clause of Part15E	Verdict
0	Maximum Output Power	15.407(a)	<b>P</b>
1	Power Spectral Density	15.407(a)	<b>P</b>
2	Occupied 26dB Bandwidth	15.407(a)	<b>P</b>
3	Occupied 6dB Bandwidth	15.407(e)	<b>P</b>
4	99% Occupied Bandwidth	15.407	<b>P</b>
5	Band edge compliance	15.407	<b>P</b>
6	Radiated Spurious Emissions	15.407	<b>P</b>
7	AC Power line Conducted	15.207	<b>P</b>
8	Frequency Stability	15.407	<b>P</b>
9	Transmit Power Control	15.407	<b>NA</b>

Please refer to **ANNEX A** for detail.

### 5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

### 5.3. Terms used in the result table

Terms used in Verdict column

P	Pass
NA	Not Available
F	Fail

Abbreviations

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropic radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter



#### 5.4. Laboratory Environment

**Semi-anechoic Chamber** did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3 m distance, from 30 to 1000 MHz

**Conducted shielded room** did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-10000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

**Fully-anechoic Chamber** did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

## 6. TEST EQUIPMENTS UTILIZED

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2020-01-16	1 year
2	Power Sensor	U2021XA	MY55430013	Agilent	2020-01-29	1 year
3	Test Receiver	ESCI	100702	Rohde & Schwarz	2019-06-20	1 year
4	LISN	ENV216	102067	Rohde & Schwarz	2019-07-18	1 year

### Radiated test system

NO.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Loop Antenna	HLA6120	35779	TESEQ	2019-05-02	3 years
2	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021-05-17	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2022-04-02	3 years
4	Test Receiver	ESR7	101676	Rohde & Schwarz	2019-11-28	1 year
5	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2019-05-21	1 year
6	Chamber	FACT3-2.0	1285	ETS-Lindgren	2020-07-20	3 years
7	Antenna	QSH-SL-18-26-S-20	17013	Q-par	2020-01-15	3 years
8	Antenna	QSH-SL-26-40-K-20	17014	Q-par	2020-01-11	3 years

### Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	10.01.00
3	EMC32	Rohde & Schwarz	10.01.00

EUT is Qualcomm engineering software provided by the customer to control the transmitting signal.

### Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

## 7. Measurement Uncertainty

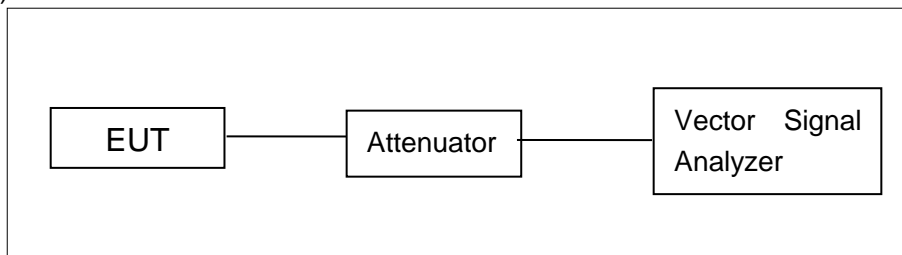
Test Name	Uncertainty	
1. RF Output Power - Conducted	±1.32dB	
2. Power Spectral Density - Conducted	±2.32dB	
3. Occupied channel bandwidth - Conducted	±66Hz	
4. Transmitter Spurious Emission - Conducted	30MHz ≤ f ≤ 1GHz	±1.41dB
	1GHz ≤ f ≤ 7GHz	±1.92dB
	7GHz ≤ f ≤ 13GHz	±2.31dB
	13GHz ≤ f ≤ 26GHz	±2.61dB
5. Transmitter Spurious Emission - Radiated	9kHz ≤ f ≤ 30MHz	±1.94dB
	30MHz ≤ f ≤ 1GHz	±5.12dB
	1GHz ≤ f ≤ 18GHz	±5.05dB
	18GHz ≤ f ≤ 40GHz	±4.68dB
6. AC Power line Conducted Emission	150kHz ≤ f ≤ 30MHz	±3.00dB

## ANNEX A: MEASUREMENT RESULTS

### A.1. Measurement Method

#### Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values.

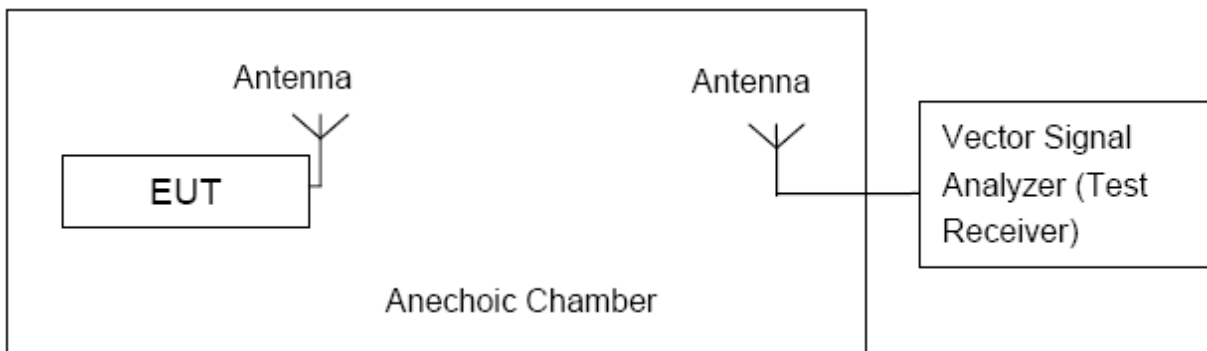


#### Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows:

Sweep frequency from 30 MHz to 1 GHz, RBW = 100 KHz, VBW = 300 KHz;

Sweep frequency from 1 GHz to 26 GHz, RBW = 1 MHz, VBW = 10 Hz;



The measurement is made according to KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

## A.2. Maximum output Power

### Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24
	5250MHz~5350MHz	24 or 11+10logB
	5470MHz~5725MHz	24 or 11+10logB
	5725MHz~5850MHz	30

Limit use the less value, and B is the 26dB bandwidth.

### Measurement of method :See ANSI C63.10-2013-Clause 12.3.3.2

Method PM-G is a measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### Measurement Results:

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.2GHz Band (UNII-1)	802.11a	CH 36	5180	13.33	P
		CH 40	5200	13.41	P
		CH 48	5240	13.44	P
	802.11n-HT20	CH 36	5180	13.45	P
		CH 40	5200	13.37	P
		CH 48	5240	13.23	P
	802.11n-HT40	CH 38	5190	13.17	P
		CH 46	5230	13.10	P
	802.11ac-VHT20	CH 36	5180	13.47	P
		CH 40	5200	13.39	P
		CH 48	5240	13.28	P
	802.11ac-VHT40	CH 38	5190	13.24	P
		CH 46	5230	13.07	P
	802.11ac-VHT80	CH 42	5210	12.42	P

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.3GHz Band (UNII-2A)	802.11a	CH 52	5260	13.18	P
		CH 56	5280	13.07	P
		CH 64	5320	12.98	P
	802.11n-HT20	CH 52	5260	13.16	P
		CH 56	5280	13.05	P
		CH 64	5320	12.89	P
	802.11n-HT40	CH 54	5270	12.88	P
		CH 62	5310	12.84	P
	802.11ac-VHT20	CH 52	5260	13.14	P
		CH 56	5280	13.01	P
		CH 64	5320	12.96	P
	802.11ac-VHT40	CH 54	5270	12.94	P
		CH 62	5310	12.92	P
802.11ac-VHT80	CH 58	5290	12.10	P	

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.5GHz Band (UNII-2C)	802.11a	CH 100	5500	13.10	P
		CH 116	5580	13.25	P
		CH 140	5700	13.38	P
	802.11n-HT20	CH 100	5500	13.04	P
		CH 116	5580	13.11	P
		CH 140	5700	13.44	P
	802.11n-HT40	CH 102	5510	12.85	P
		CH 110	5550	12.87	P
		CH 134	5670	13.08	P
	802.11ac-VHT20	CH 100	5500	13.02	P
		CH 116	5580	13.09	P
		CH 140	5700	13.42	P
	802.11ac-VHT40	CH 102	5510	12.83	P
		CH 110	5550	12.86	P
		CH 134	5670	13.01	P
	802.11ac-VHT80	CH 106	5530	12.07	P
		CH 122	5610	12.15	P

U-NII Band	Mode	Channel	Frequency (MHz)	Average power (dBm)	Conclusion
5.8GHz Band (UNII-3)	802.11a	CH 149	5745	14.56	P
		CH 157	5785	14.87	P
		CH 165	5825	14.95	P
	802.11n-HT20	CH 149	5745	14.68	P
		CH 157	5785	14.85	P
		CH 165	5825	14.98	P
	802.11n-HT40	CH 151	5755	14.32	P
		CH 159	5795	14.66	P
	802.11ac-VHT20	CH 149	5745	13.71	P
		CH 157	5785	13.94	P
		CH 165	5825	14.05	P
	802.11ac-VHT40	CH 151	5755	13.42	P
		CH 159	5795	13.75	P
	802.11ac-VHT80	CH 155	5775	12.82	P

**Note:**

Worst-case data rates as provided by the client were: 54Mbps (802.11a), MCS7 (802.11n), MCS8 (802.11ac). 802.11a, 802.11n-HT40 and 802.11ac-VHT80 modes are selected as the worst-case.

The following cases and test graphs are performed with this condition.

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### A.3. Peak Power Spectral Density (conducted)

**Measurement Limit:**

Standard	Frequency (MHz)	Limit
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11dBm/MHz(FCC)
		10dBm/MHz EIRP(IC)
	5250MHz~5350MHz	11dBm/MHz
	5470MHz~5725MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500KHz

The PPSD measurement method SA-1 is made according to KDB 789033.

**Measurement Results:**

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180MHz(Ch36)	6.28	P
	5200MHz(Ch40)	6.48	P
	5240MHz(Ch48)	5.83	P
	5260MHz(Ch52)	5.94	P
	5280MHz(Ch56)	5.89	P
	5320MHz(Ch64)	6.33	P
	5500MHz(Ch100)	5.87	P
	5580MHz(Ch116)	6.69	P
	5700MHz(Ch140)	6.43	P

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11n HT40	5190MHz(Ch38)	2.82	P
	5230MHz(Ch46)	3.22	P
	5270MHz(Ch54)	2.79	P
	5310MHz(Ch62)	2.40	P
	5510MHz(Ch102)	3.39	P
	5550MHz(Ch110)	3.28	P
	5670MHz(Ch134)	3.35	P

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11ac VHT80	5210MHz(Ch42)	-0.90	P
	5290MHz(Ch58)	-1.33	P
	5530MHz(Ch106)	-0.81	P
	5610MHz(Ch122)	-0.69	P



**5.8GHz Band (UNII-3)**

<b>U-NII Band</b>	<b>Mode</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Power Spectral Density (dBm/500kHz)</b>	<b>Conclusion</b>
5.8GHz Band (UNII-3)	802.11a	CH 149	5745	7.17	<b>P</b>
		CH 157	5785	7.49	<b>P</b>
		CH 165	5825	7.70	<b>P</b>
	802.11n-HT40	CH 151	5755	4.36	<b>P</b>
		CH 159	5795	3.90	<b>P</b>
	802.11ac-VHT80	CH 155	5775	-1.25	<b>P</b>

**Conclusion: PASS**

#### A.4. Occupied 26dB Bandwidth(conducted)

##### Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

##### Measurement Result:

Mode	Channel	Occupied 26dB Bandwidth( MHz)		Conclusion
		Fig.	Value	
802.11a	5180MHz(Ch36)	Fig.1	23.00	P
	5200MHz(Ch40)	Fig.2	23.10	P
	5240MHz(Ch48)	Fig.3	23.30	P
	5260MHz(Ch52)	Fig.4	22.70	P
	5280MHz(Ch56)	Fig.5	23.05	P
	5320MHz(Ch64)	Fig.6	23.25	P
	5500MHz(Ch100)	Fig.7	23.30	P
	5580MHz(Ch116)	Fig.8	23.15	P
802.11n HT40	5700MHz(Ch140)	Fig.9	23.00	P
	5190MHz(Ch38)	Fig.10	43.84	P
	5230MHz(Ch46)	Fig.11	43.44	P
	5270MHz(Ch54)	Fig.12	43.28	P
	5310MHz(Ch62)	Fig.13	43.36	P
	5510MHz(Ch102)	Fig.14	43.60	P
	5550MHz(Ch110)	Fig.15	44.80	P
802.11 ac VHT80	5670MHz(Ch134)	Fig.16	43.36	P
	5210MHz(Ch42)	Fig.17	85.28	P
	5290MHz(Ch58)	Fig.18	84.48	P
	5530MHz(Ch106)	Fig.19	85.12	P
	5610MHz(Ch122)	Fig.20	85.12	P

**Conclusion: PASS**

**Test graphs as below:**

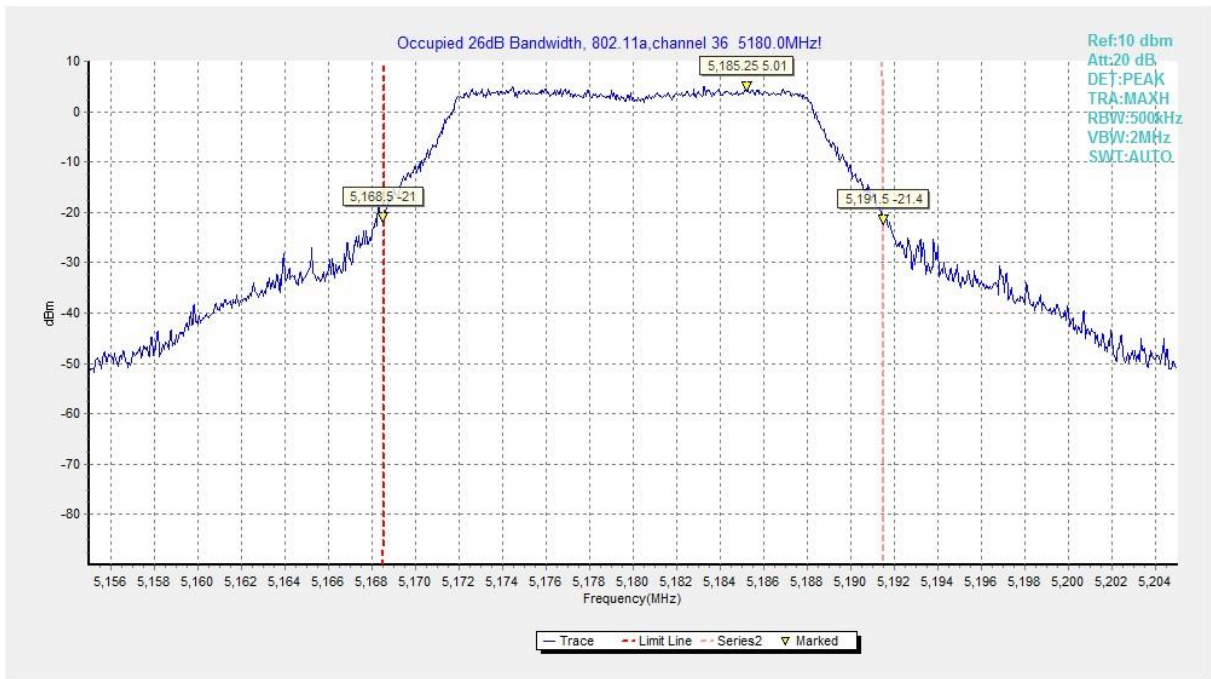


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

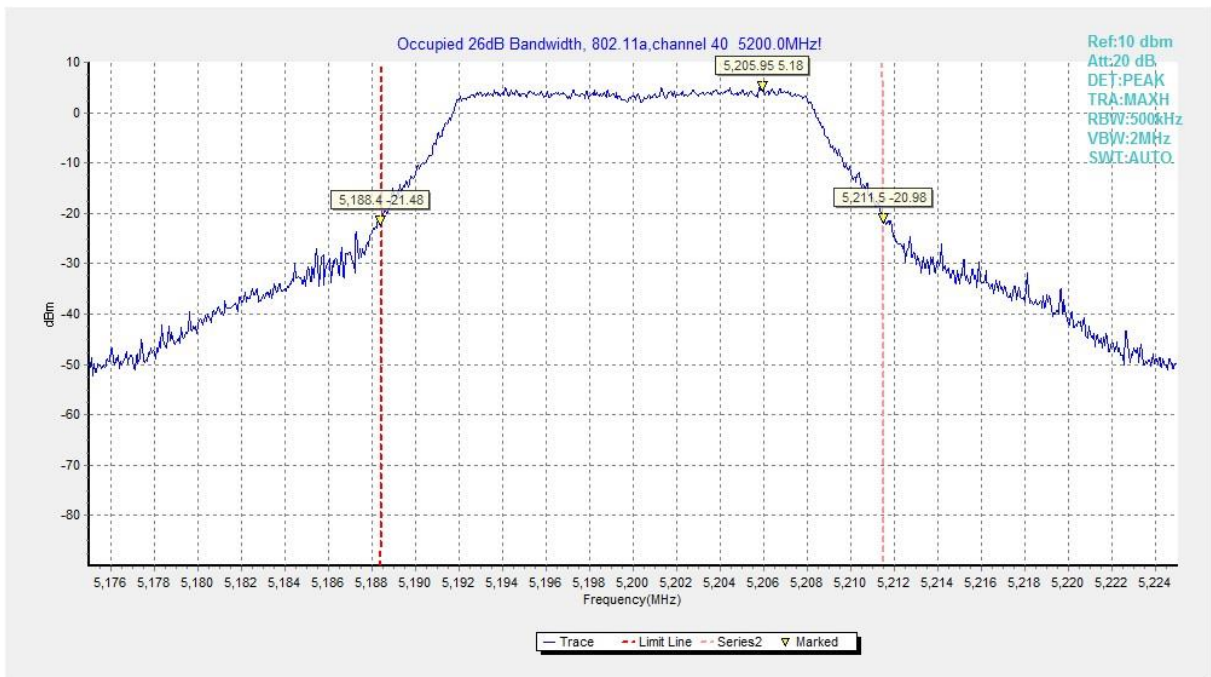


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

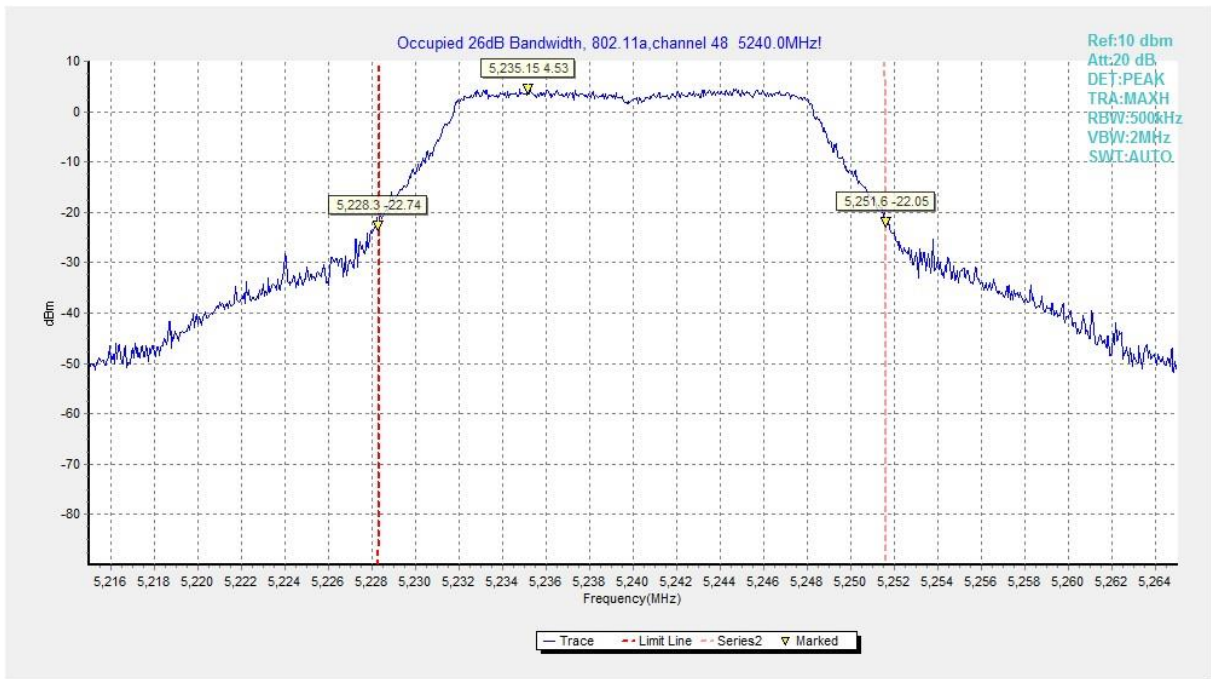


Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)



Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

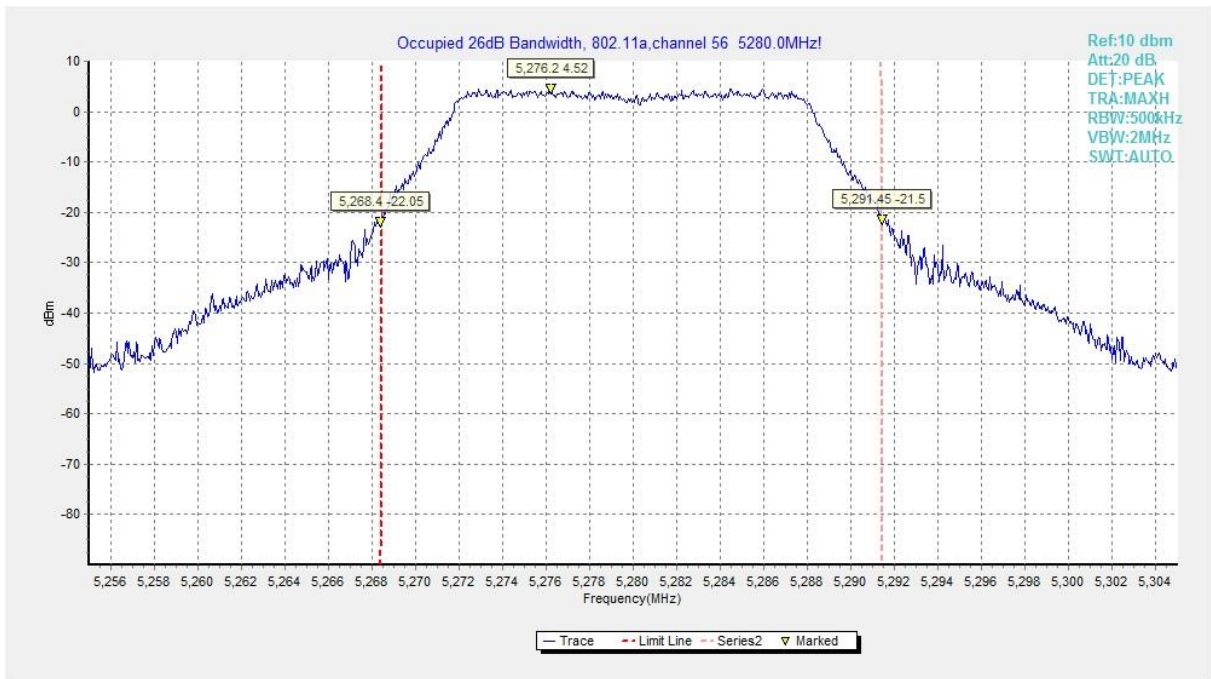


Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

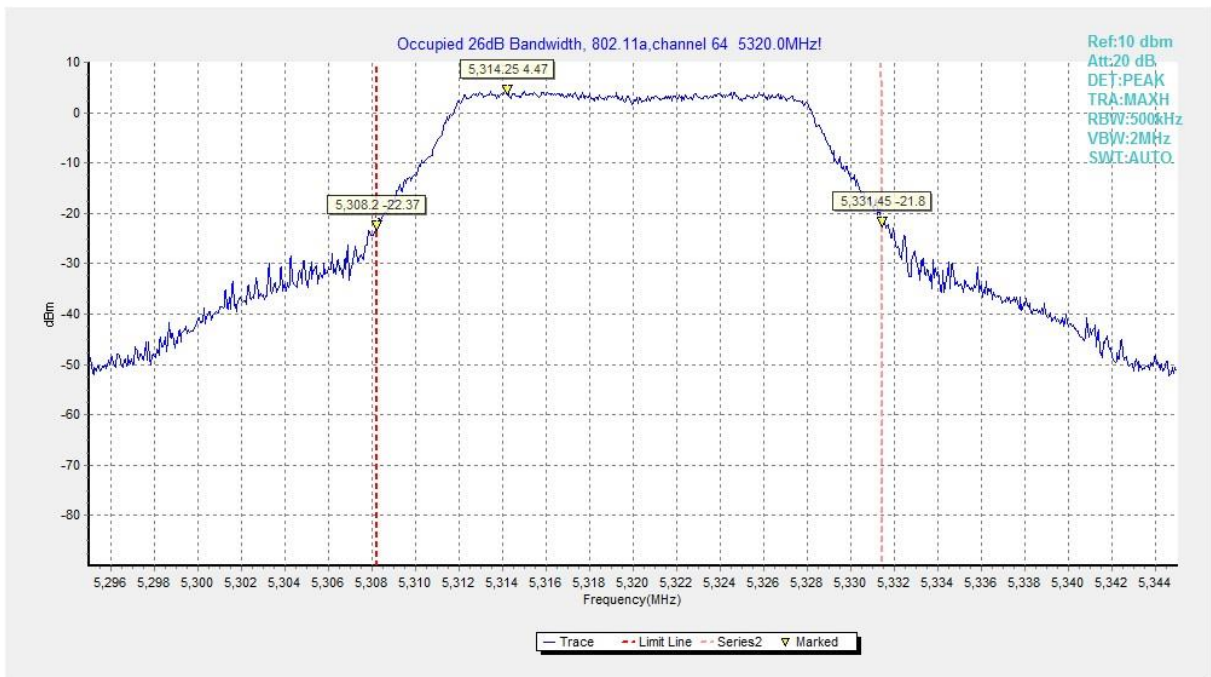


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

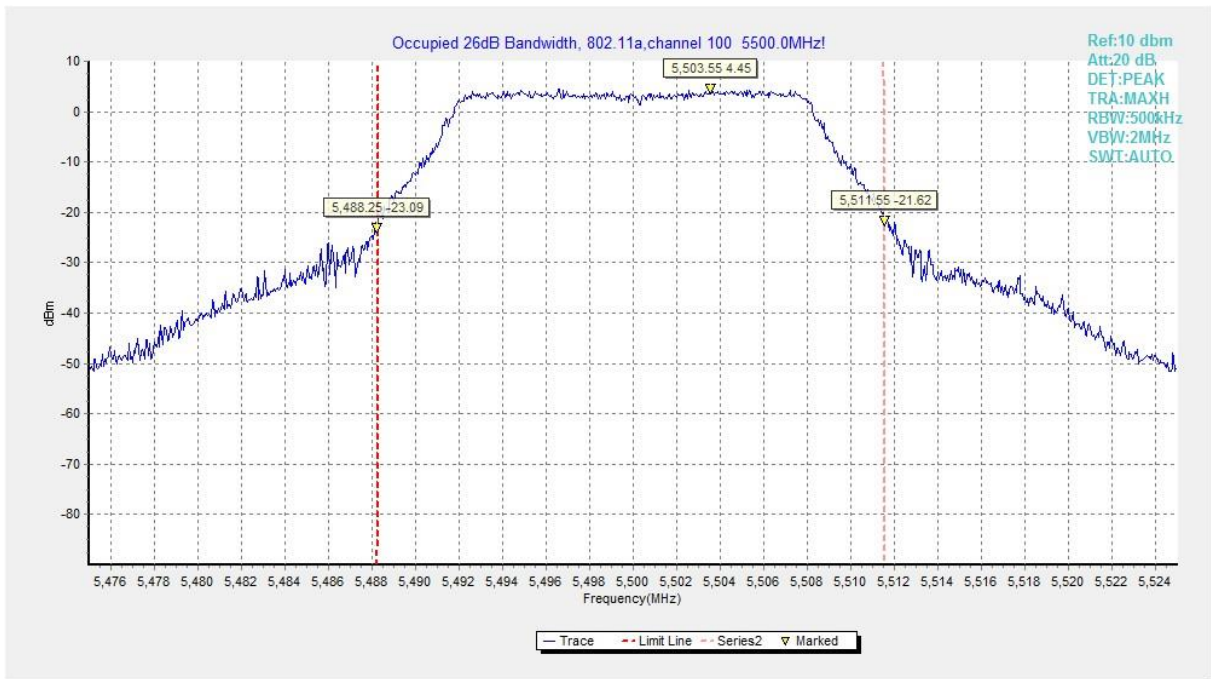


Fig. 7 Occupied 26dB Bandwidth (802. 11a, 5500MHz)

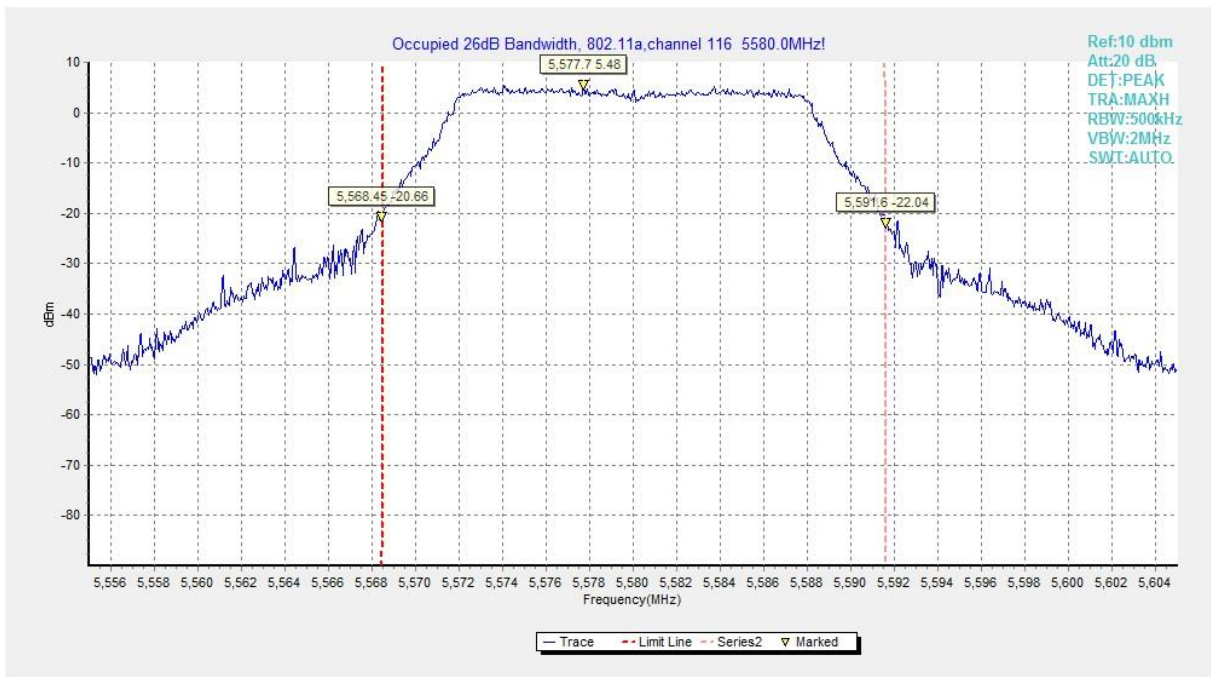


Fig. 8 Occupied 26dB Bandwidth (802. 11a, 5600MHz)

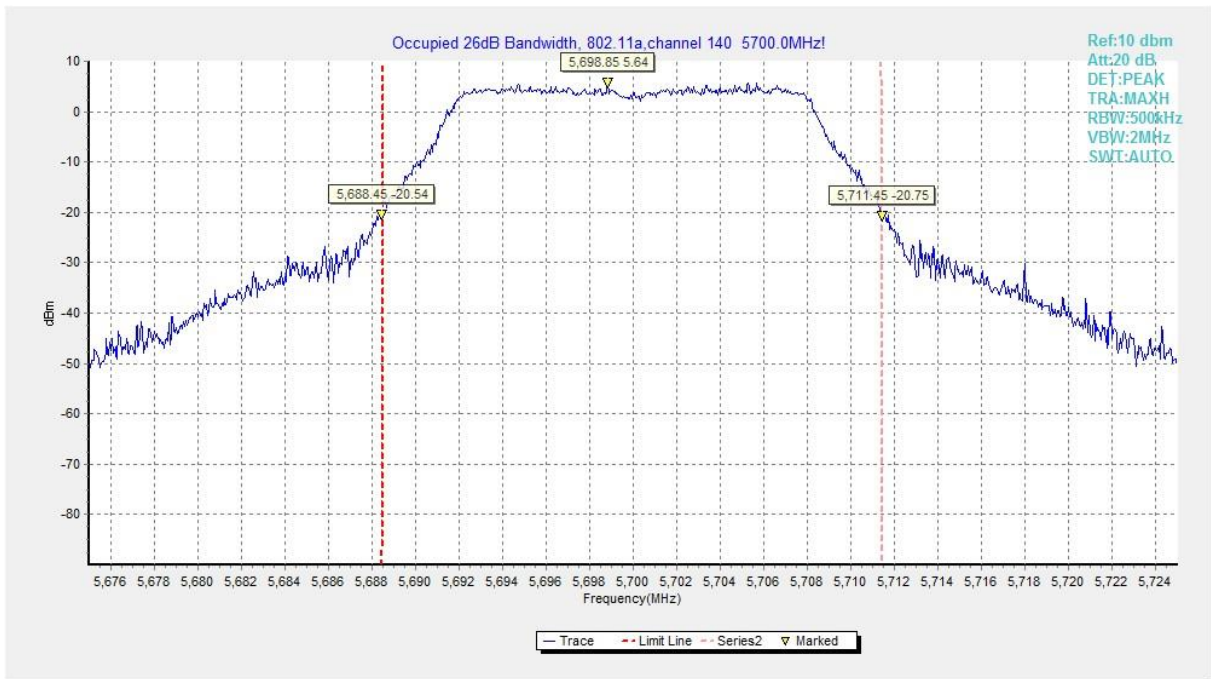


Fig. 9 Occupied 26dB Bandwidth (802.11a, 5700MHz)

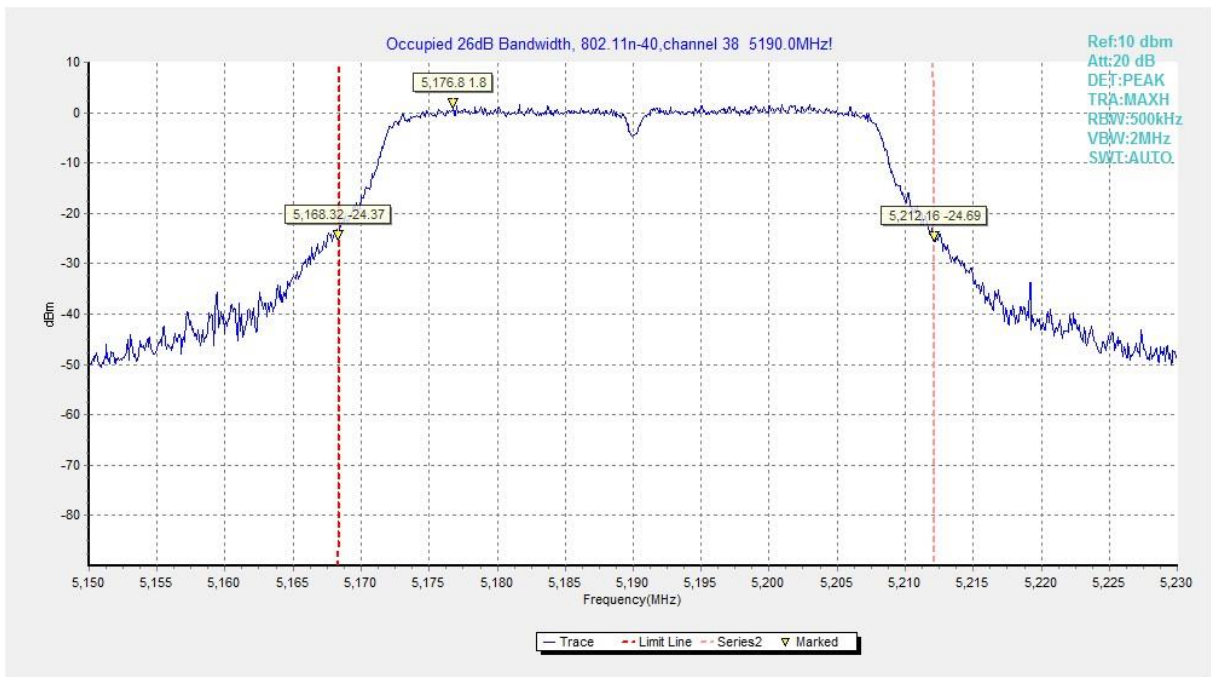


Fig. 10 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

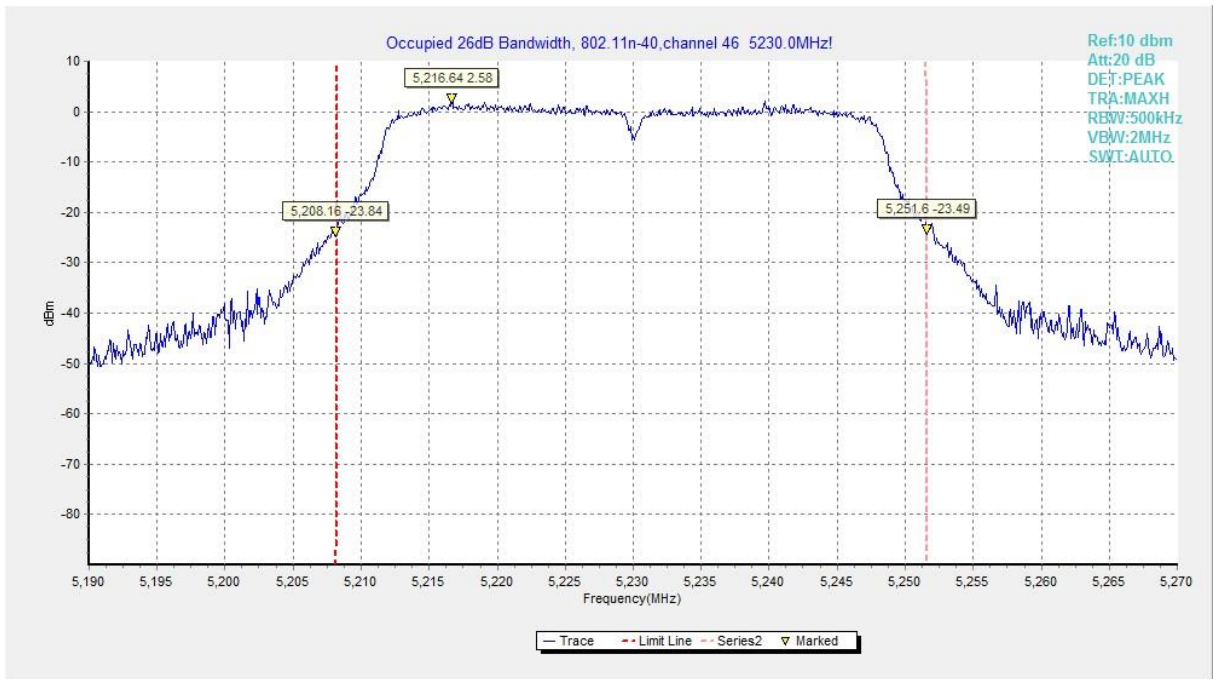


Fig. 11 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

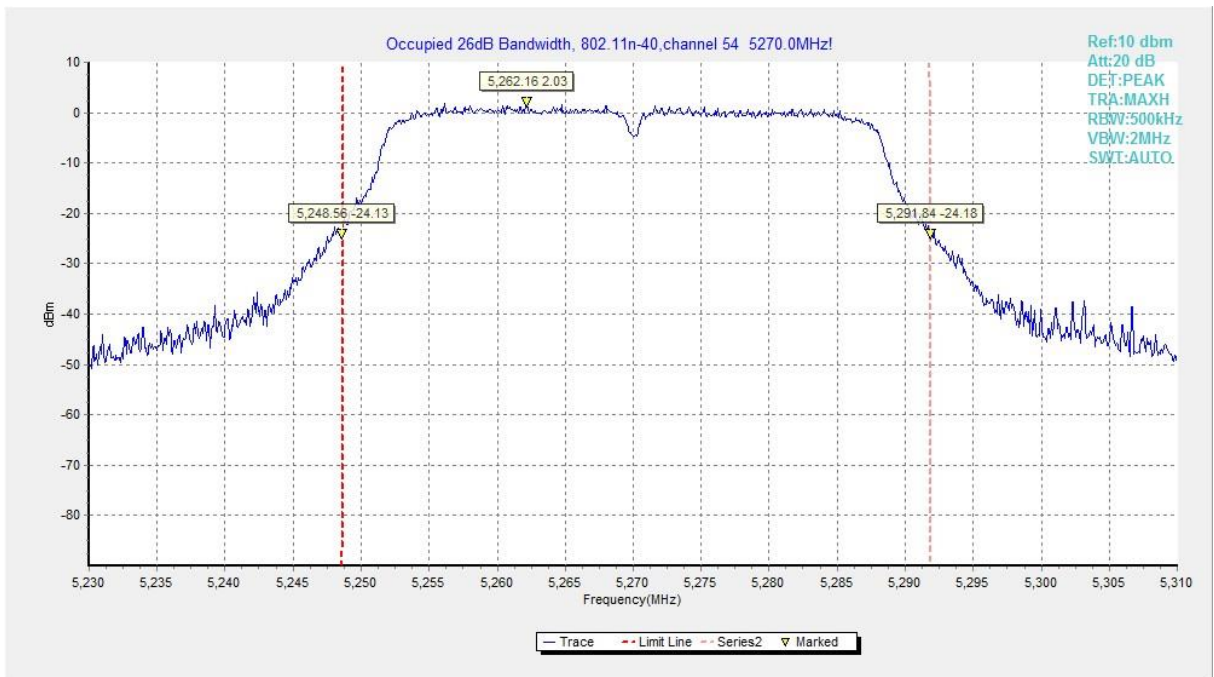


Fig. 12 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)



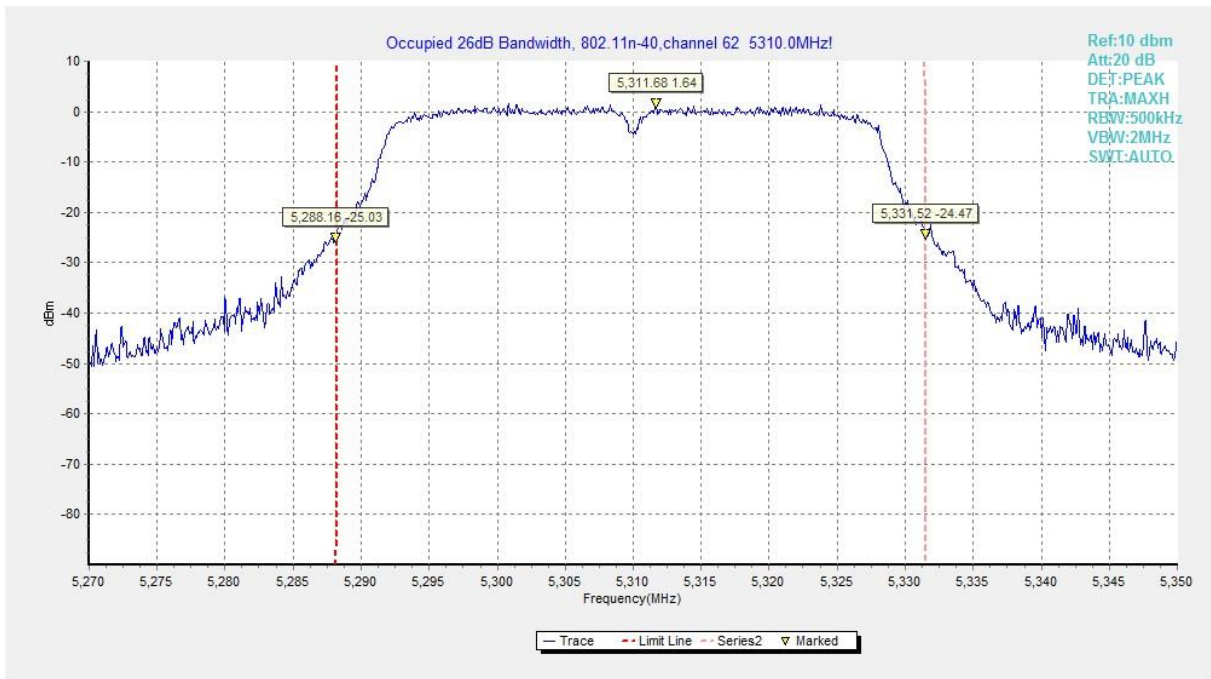


Fig. 13 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

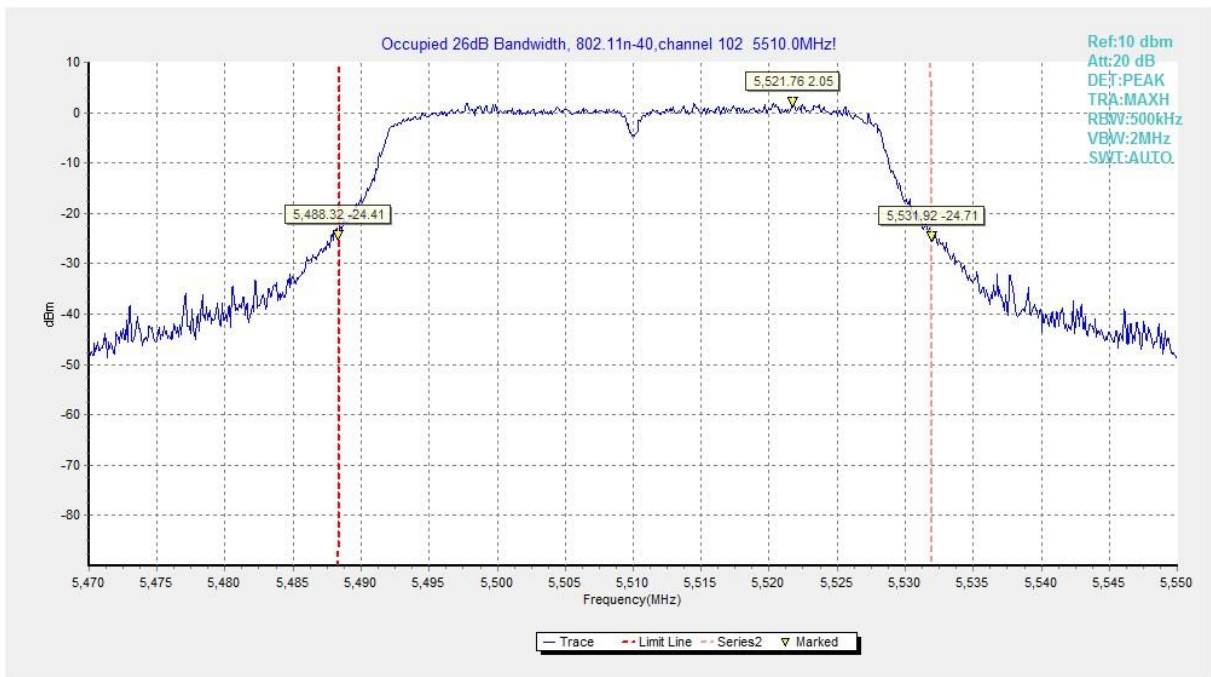


Fig. 14 Occupied 26dB Bandwidth (802.11n-HT40, 5510MHz)

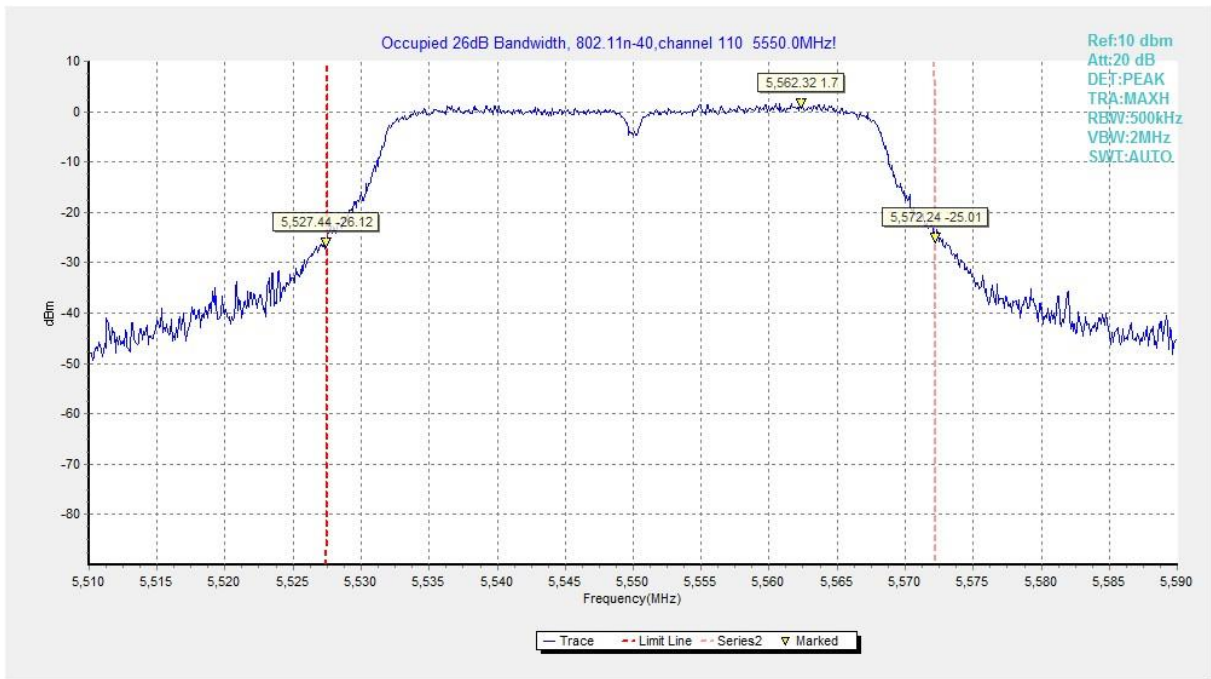


Fig. 15 Occupied 26dB Bandwidth (802. 11n-HT40, 5590MHz)

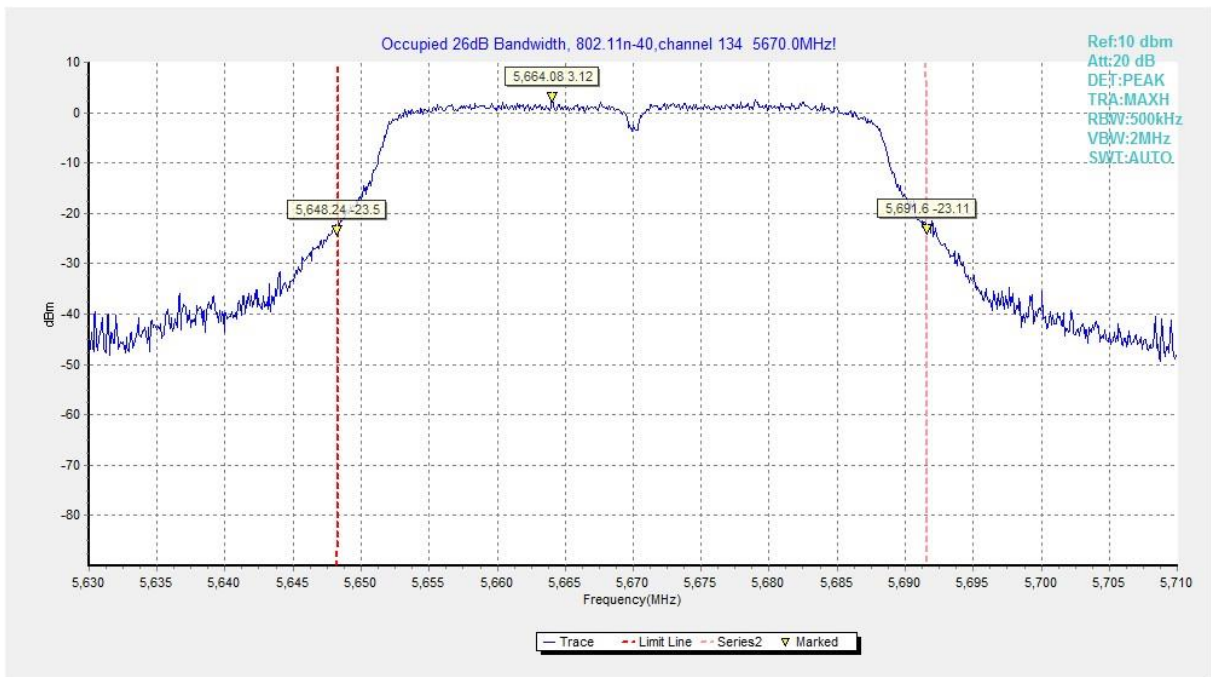


Fig. 16 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)

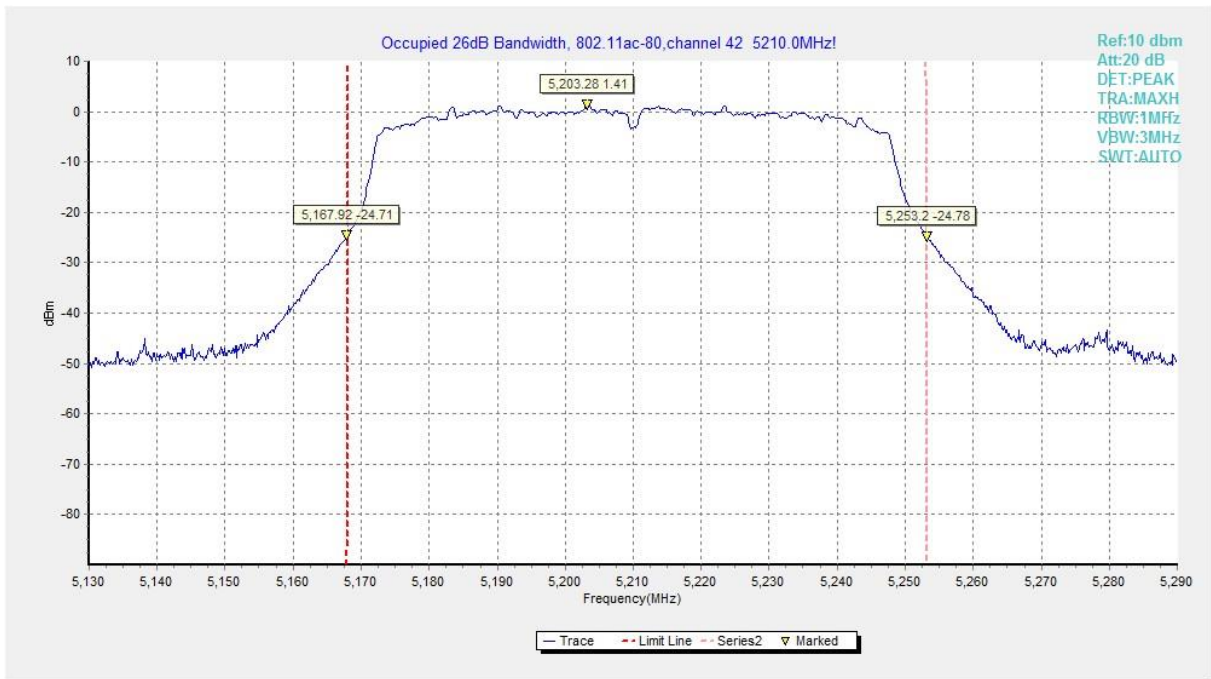


Fig. 17 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)

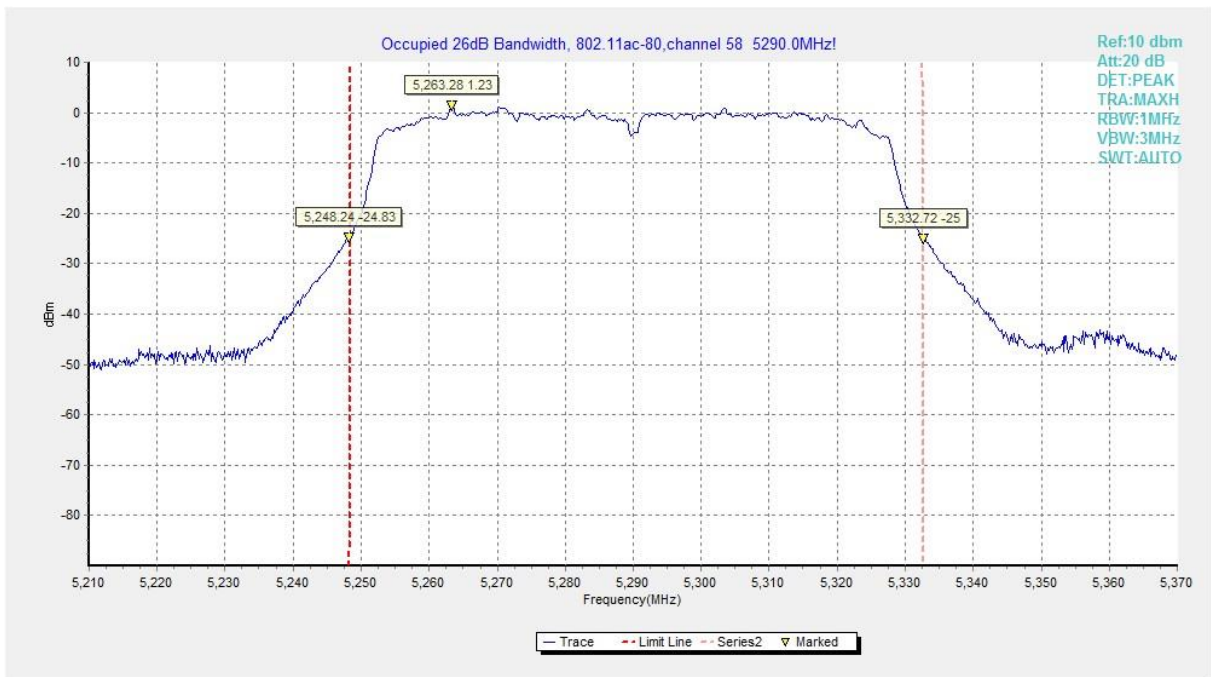


Fig. 18 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)

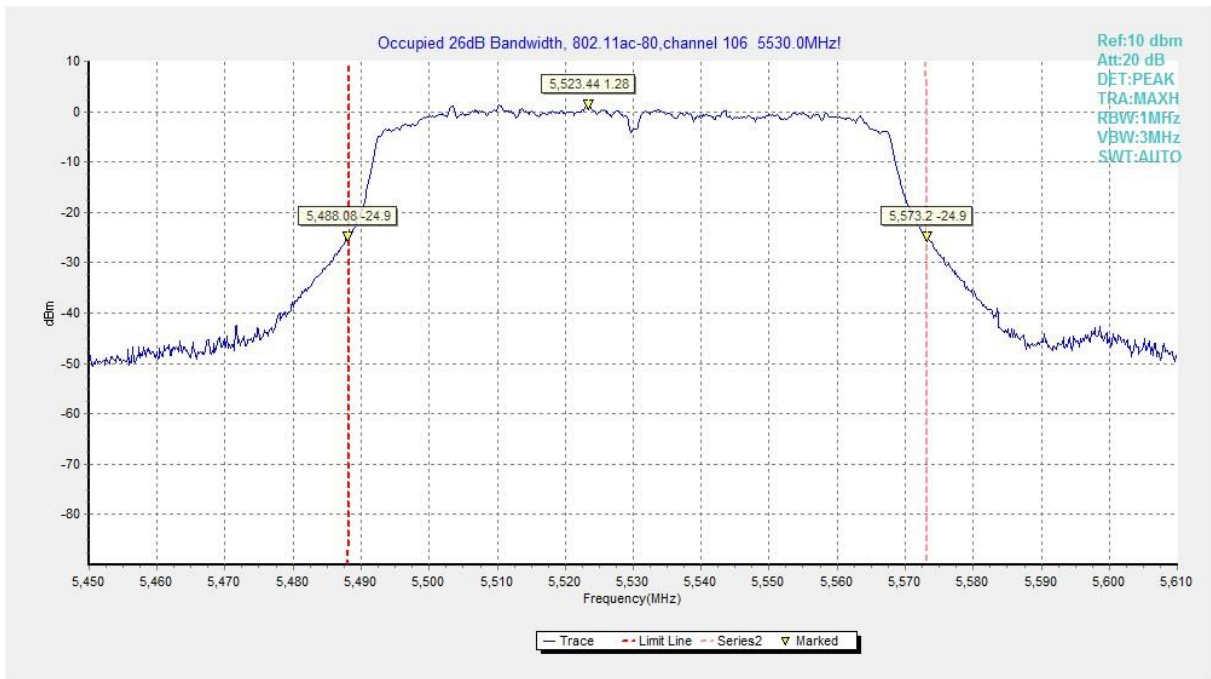


Fig. 19 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5530MHz)

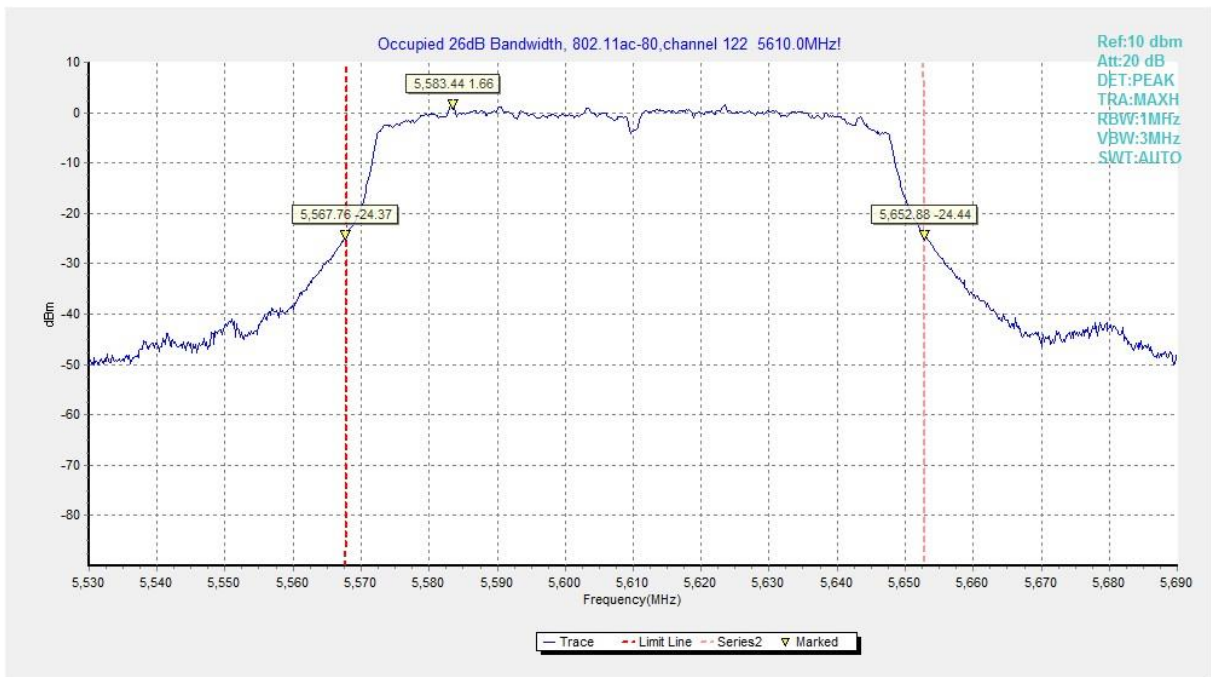


Fig. 20 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5610MHz)

### A.5. Occupied 6dB Bandwidth(conducted)

**Measurement Limit:**

Standard	Limit (MHz)
FCC 47 CFR Part 15.407 (e)	≥0.5

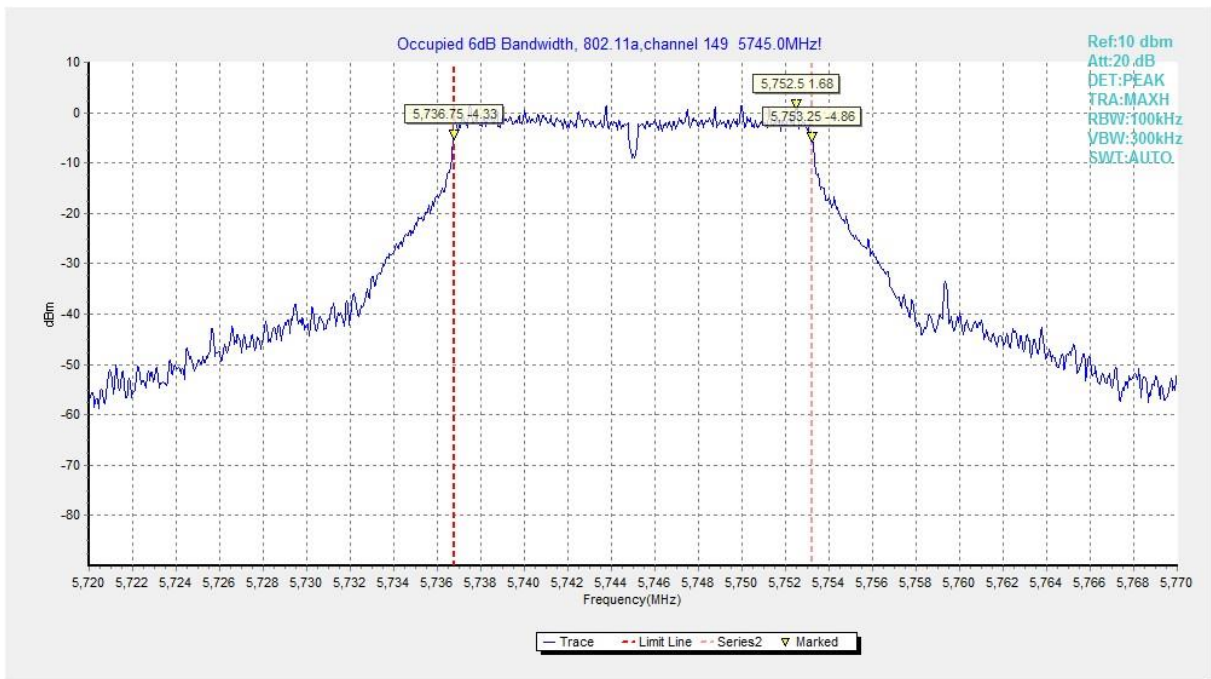
The measurement is made according to KDB 789033

**Measurement Result:**

Mode	Channel	Occupied 6dB Bandwidth( MHz)		Conclusion
802.11a	5745MHz(Ch149)	Fig.21	16.50	P
	5785MHz(Ch157)	Fig.22	16.45	P
	5825MHz(Ch165)	Fig.23	16.50	P
802.11n HT40	5755MHz(Ch151)	Fig.24	35.68	P
	5795MHz(Ch159)	Fig.25	35.52	P
802.11ac VHT80	5775MHz(Ch155)	Fig.26	75.20	P

**Conclusion: PASS**

**Test graphs as below:**



**Fig. 21 Occupied 6dB Bandwidth (802.11a, 5745MHz)**

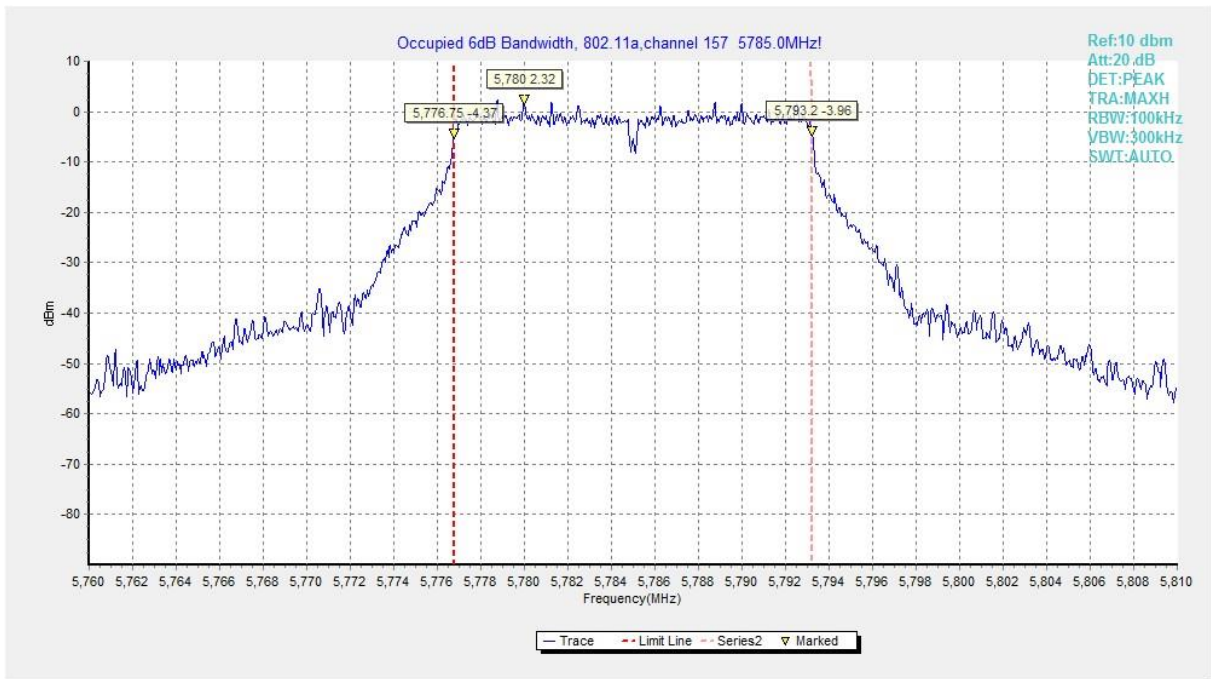


Fig. 22 Occupied 6dB Bandwidth (802.11a, 5785MHz)

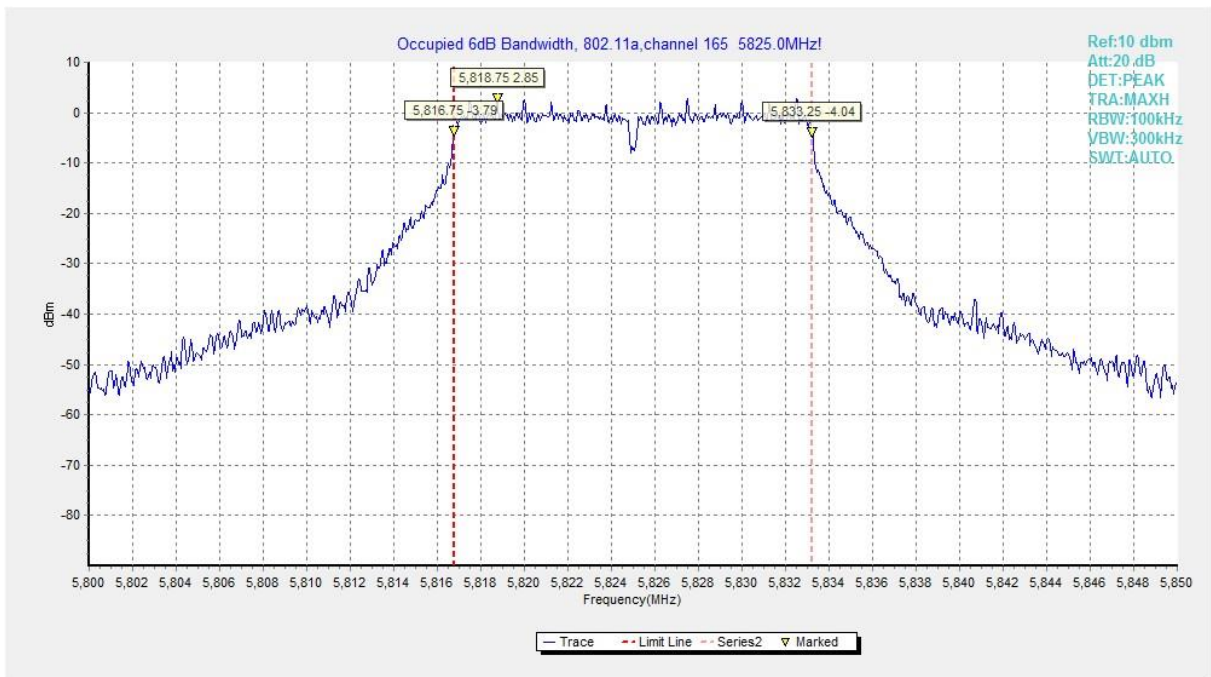


Fig. 23 Occupied 6dB Bandwidth (802.11a, 5825MHz)

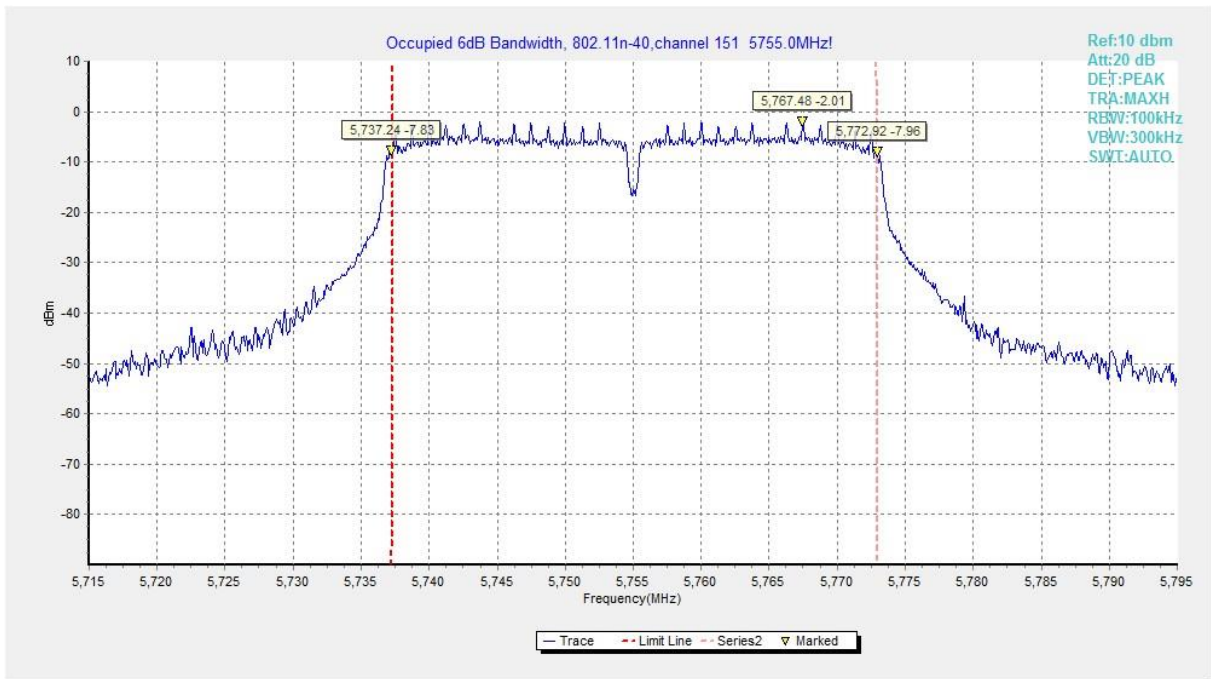


Fig. 24 Occupied 6dB Bandwidth (802.11n-HT40, 5755MHz)

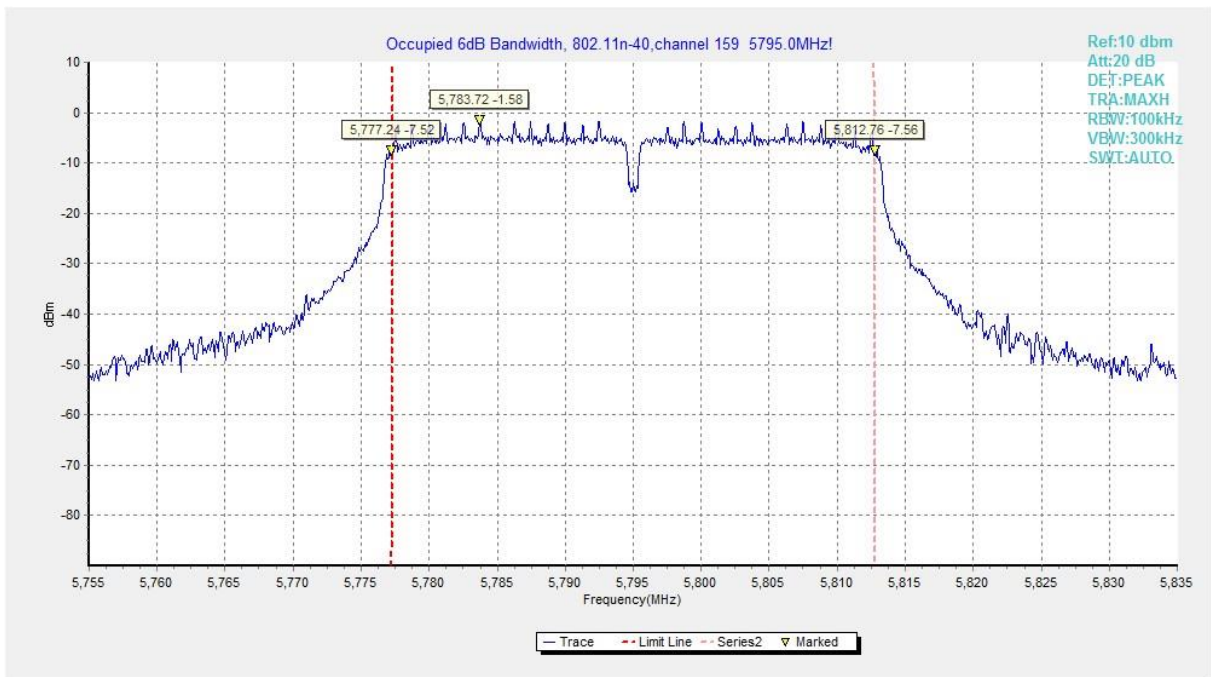


Fig. 25 Occupied 6dB Bandwidth (802.11n-HT40, 5795MHz)

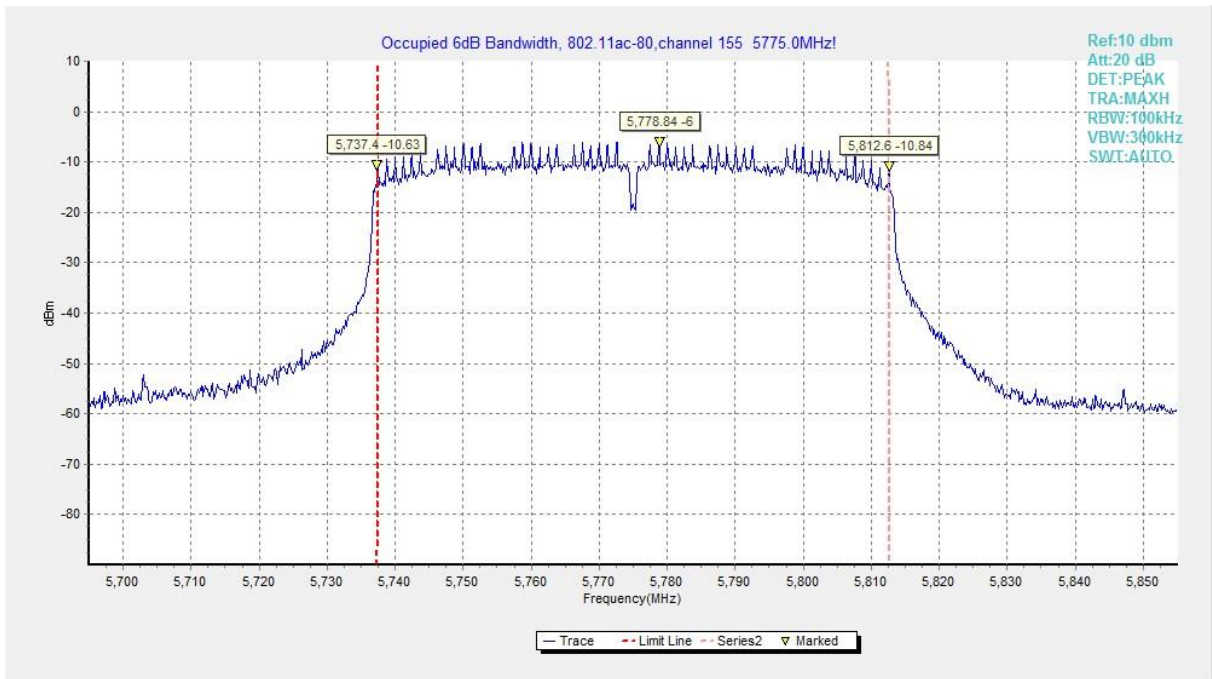


Fig. 26 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)



### A.6. 99% Occupied Bandwidth(conducted)

**Measurement Limit:**

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033

**Measurement Result:**

Mode	Channel	99% Occupied Bandwidth(MHz)		Conclusion
		Fig.	Value	
802.11a	5180MHz(Ch36)	Fig.27	18.02	P
	5200MHz(Ch40)	Fig.28	17.94	P
	5240MHz(Ch48)	Fig.29	18.02	P
	5260MHz(Ch52)	Fig.30	17.94	P
	5280MHz(Ch56)	Fig.31	17.98	P
	5320MHz(Ch64)	Fig.32	17.98	P
	5500MHz(Ch100)	Fig.33	17.94	P
	5580MHz(Ch116)	Fig.34	17.98	P
802.11n HT40	5700MHz(Ch140)	Fig.35	18.02	P
	5190MHz(Ch38)	Fig.36	36.52	P
	5230MHz(Ch46)	Fig.37	36.44	P
	5270MHz(Ch54)	Fig.38	36.36	P
	5310MHz(Ch62)	Fig.39	36.28	P
	5510MHz(Ch102)	Fig.40	36.36	P
	5550MHz(Ch110)	Fig.41	36.52	P
802.11 ac VHT80	5670MHz(Ch134)	Fig.42	36.36	P
	5210MHz(Ch42)	Fig.43	74.81	P
	5290MHz(Ch58)	Fig.44	74.65	P
	5530MHz(Ch106)	Fig.45	74.81	P
	5610MHz(Ch122)	Fig.46	74.81	P

**Conclusion: PASS**

**Test graphs as below:**

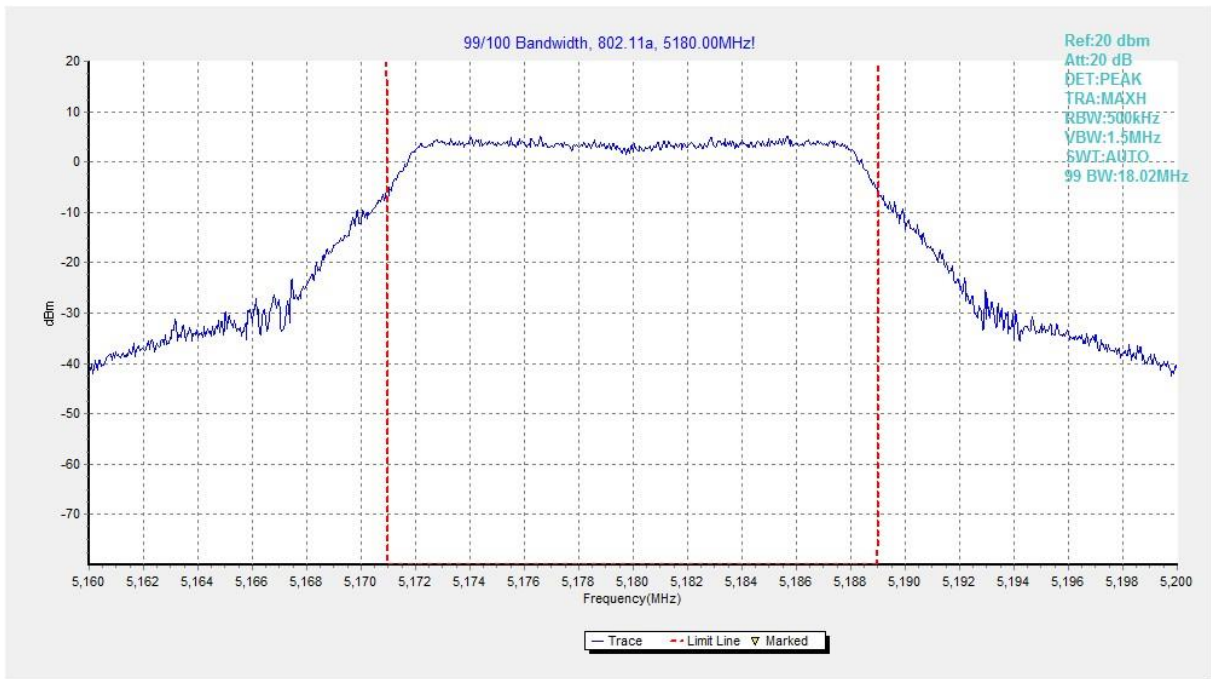


Fig. 27 99% Occupied Bandwidth (802.11a, 5180MHz)

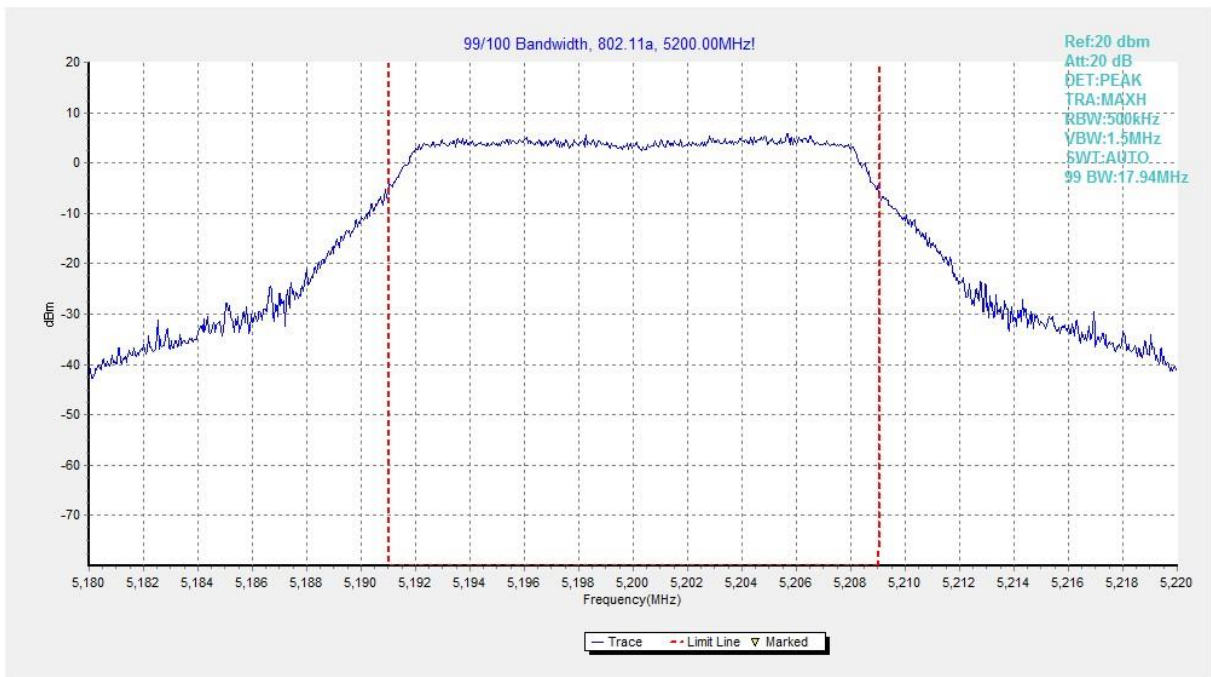


Fig. 28 99% Occupied Bandwidth (802.11a, 5200MHz)

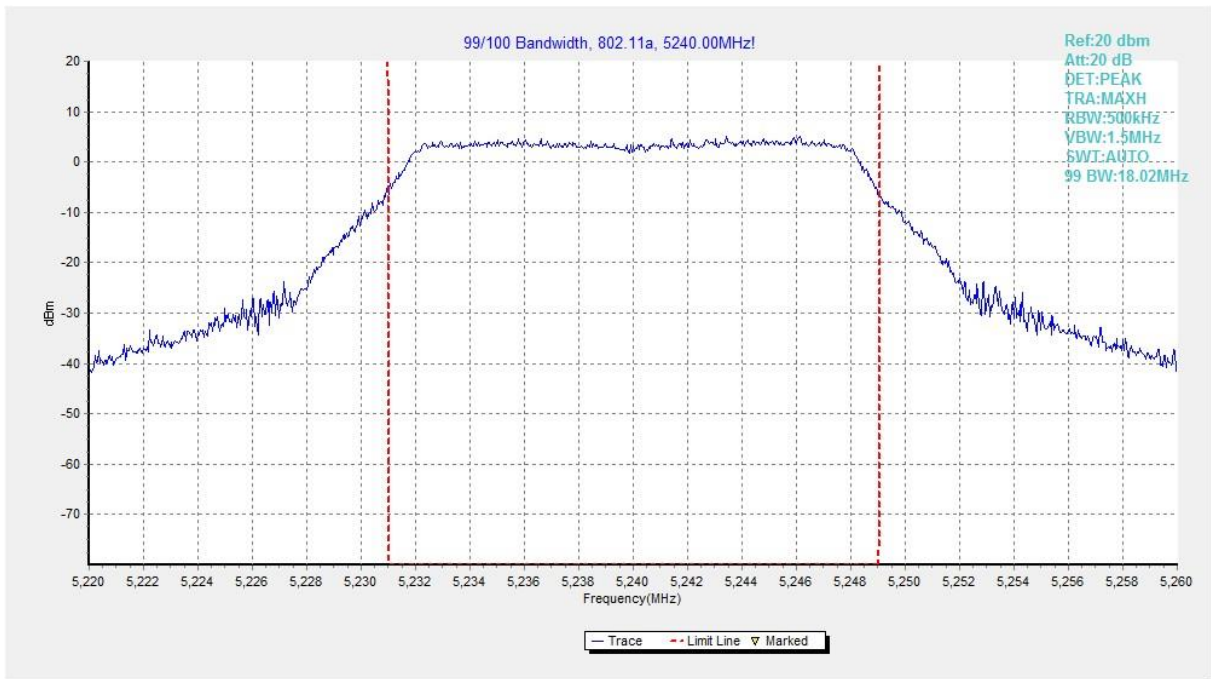


Fig. 29 99% Occupied Bandwidth (802.11a, 5240MHz)

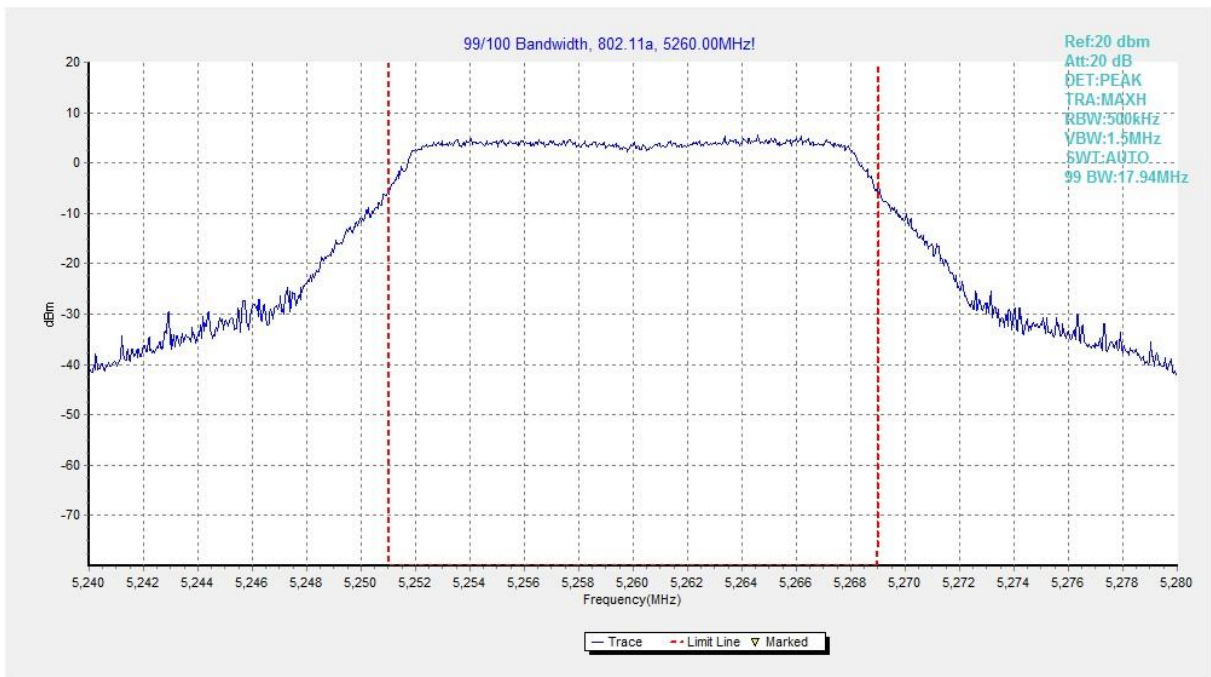


Fig. 30 99% Occupied Bandwidth (802.11a, 5260MHz)

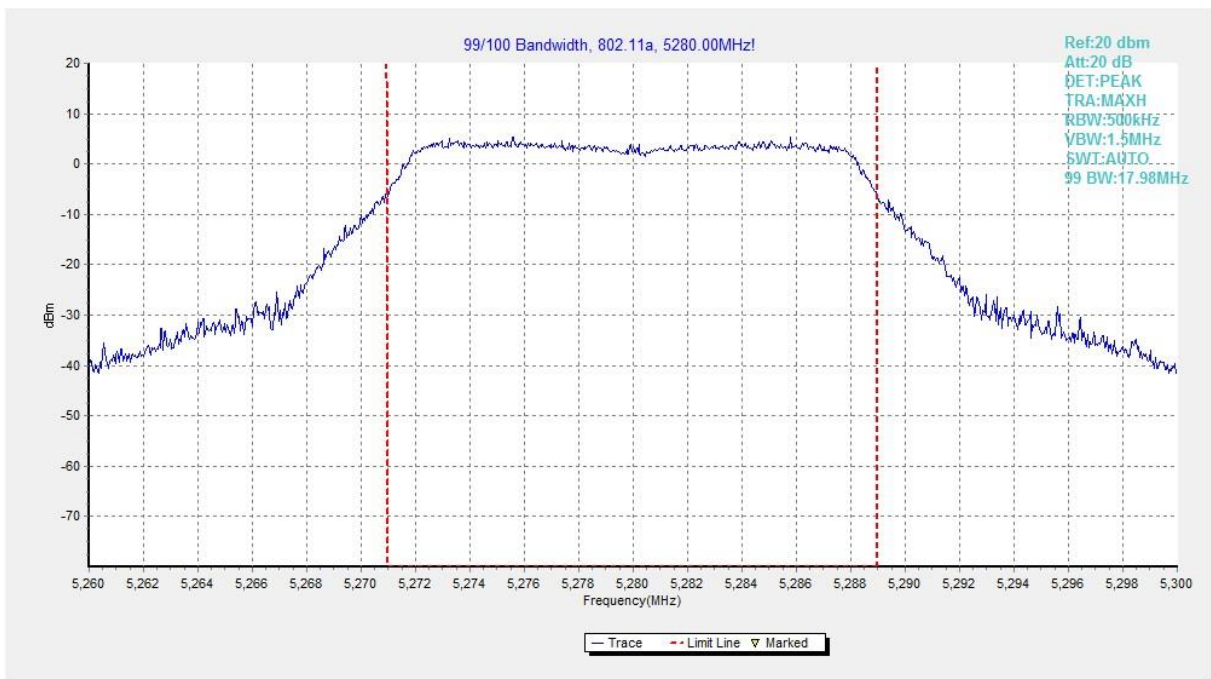


Fig. 31 99% Occupied Bandwidth (802.11a, 5280MHz)

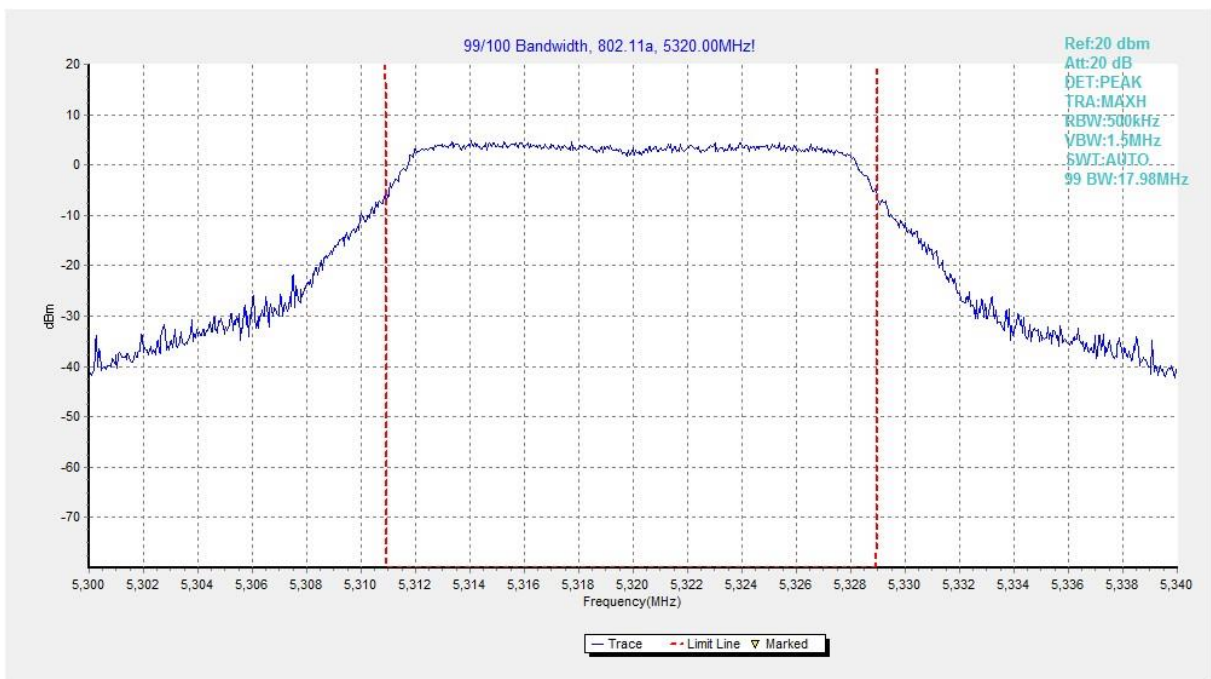


Fig. 32 99% Occupied Bandwidth (802.11a, 5320MHz)

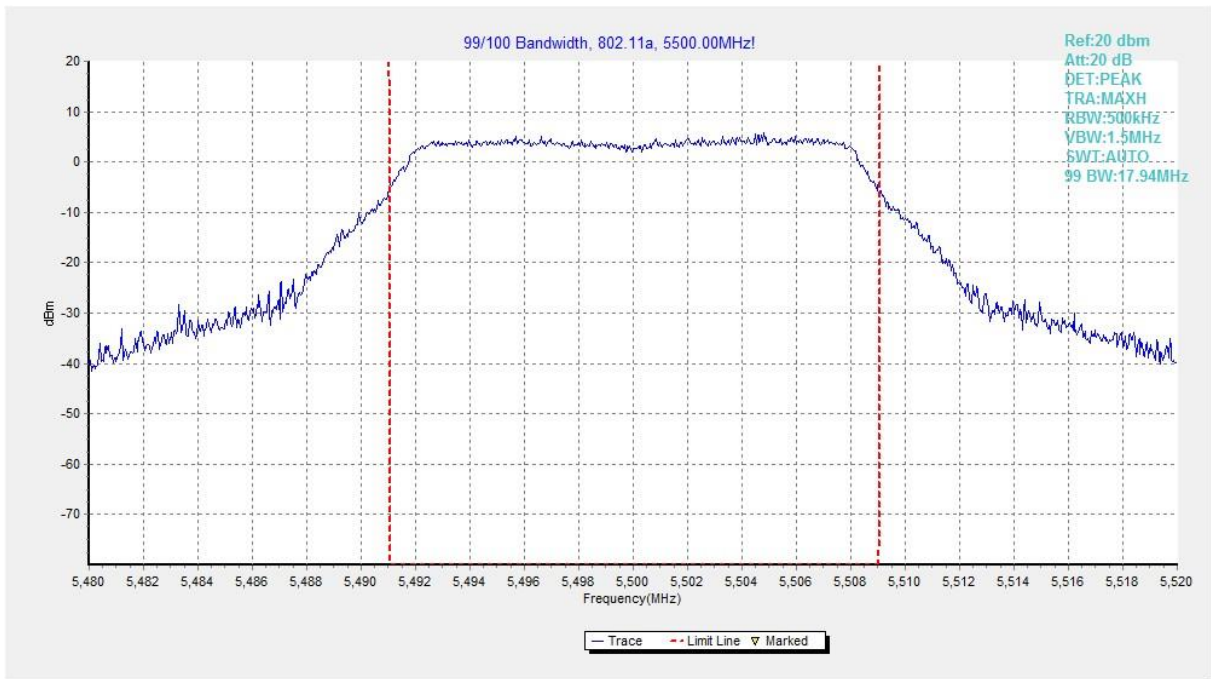


Fig. 33 99% Occupied Bandwidth (802. 11a, 5500MHz)

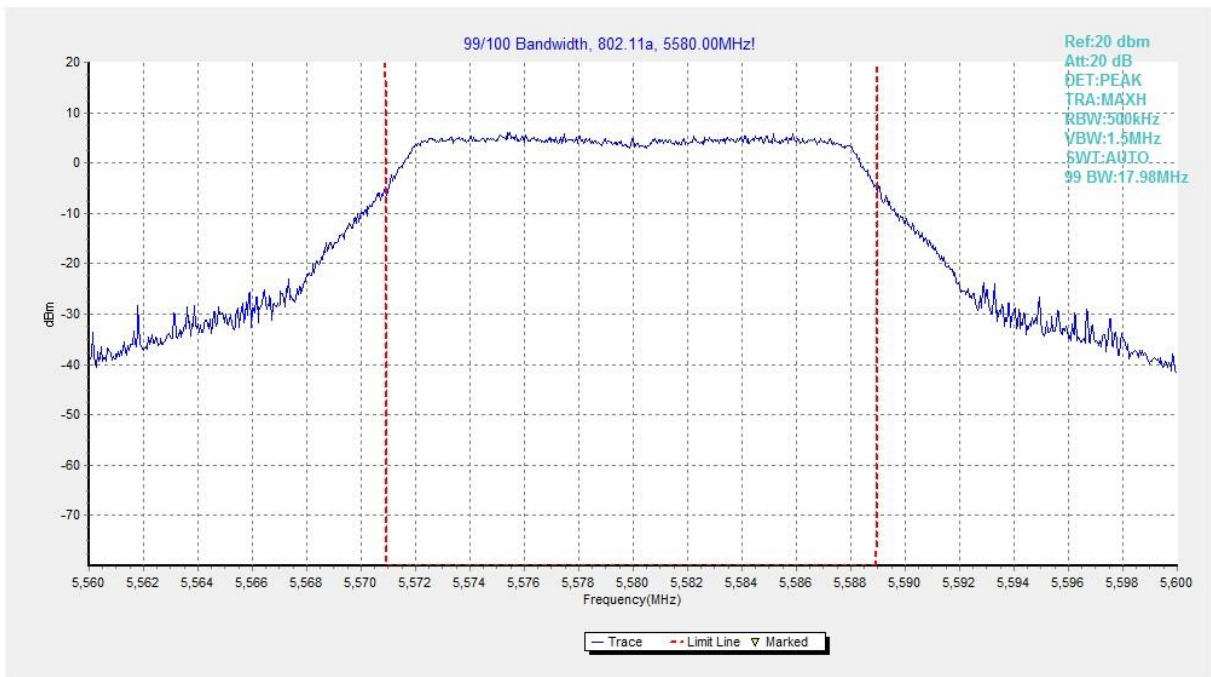


Fig. 34 99% Occupied Bandwidth (802. 11a, 5580MHz)

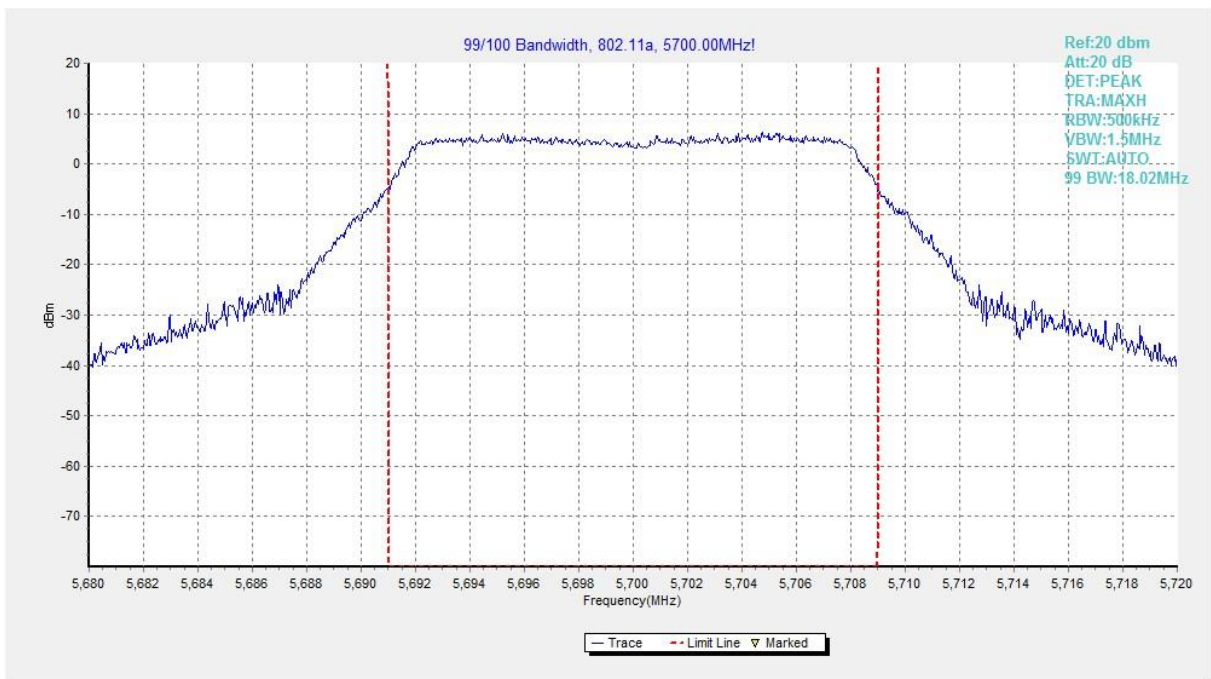


Fig. 35 99% Occupied Bandwidth (802. 11a, 5700MHz)

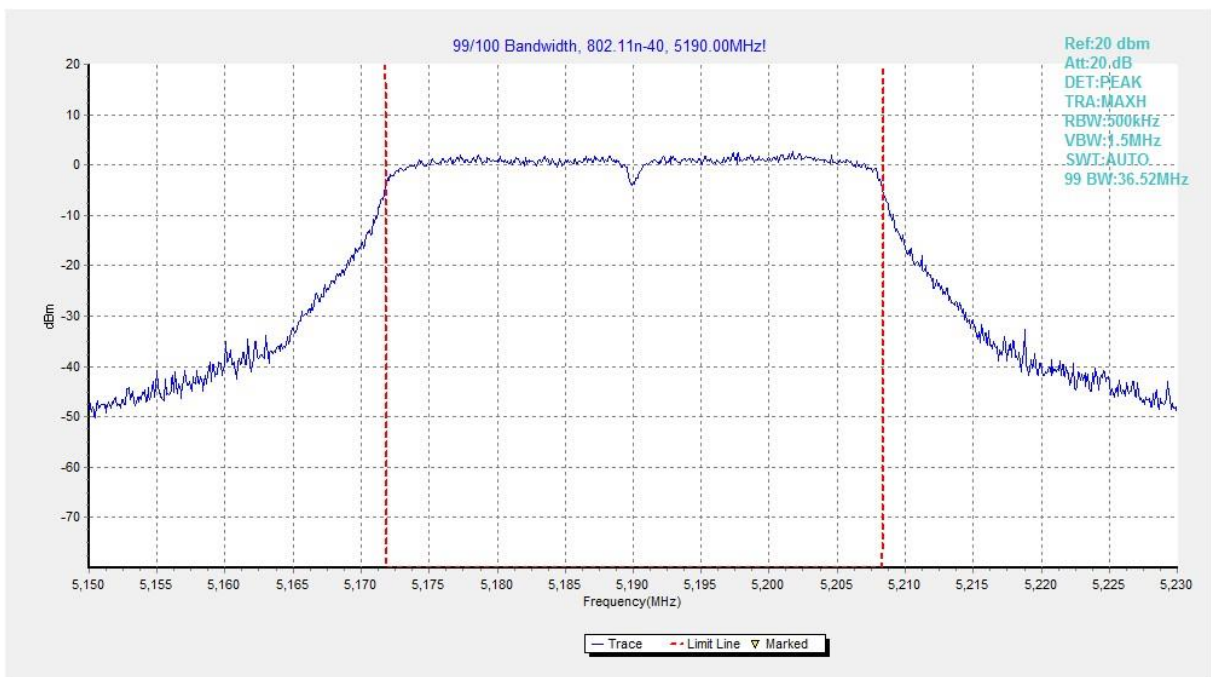


Fig. 36 99% Occupied Bandwidth (802.11n-HT40, 5190MHz)

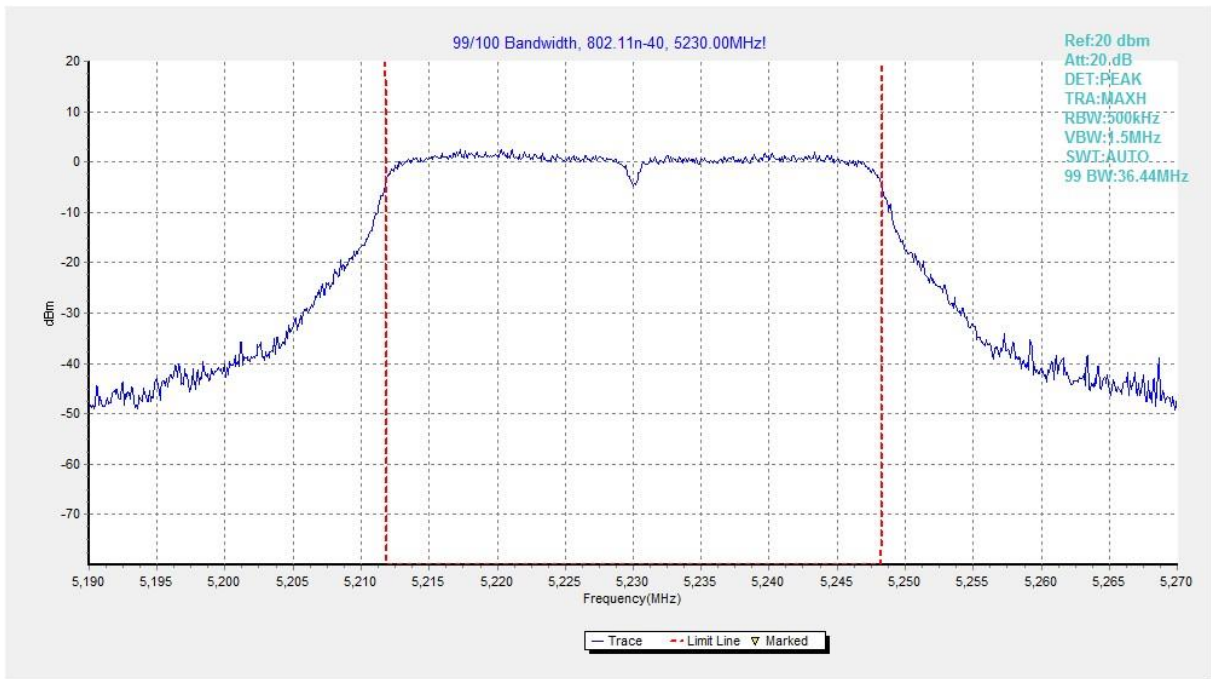


Fig. 37 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)

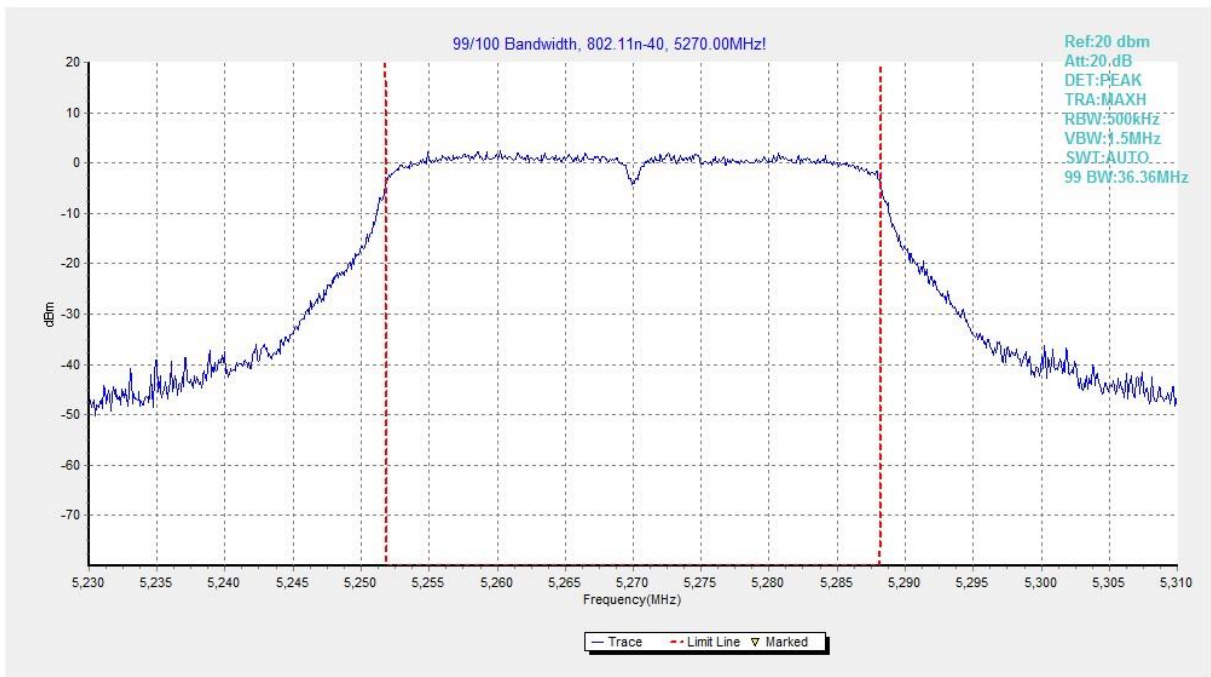


Fig. 38 99% Occupied Bandwidth (802.11n-HT40, 5270MHz)

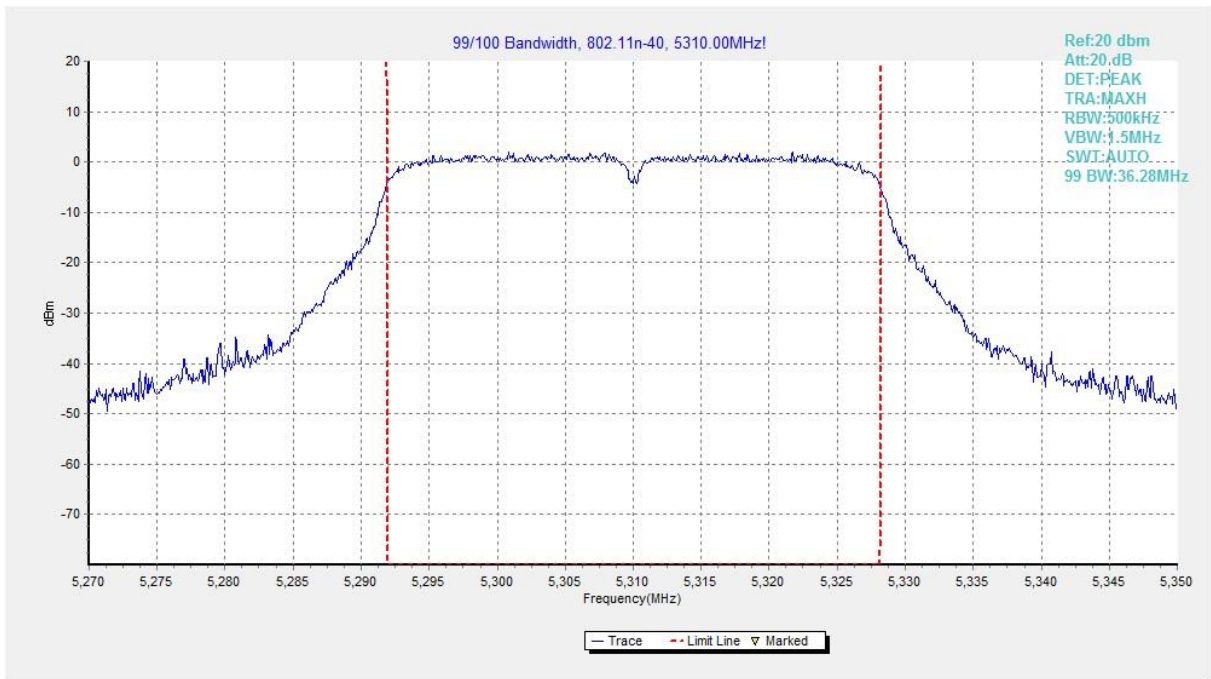


Fig. 39 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)

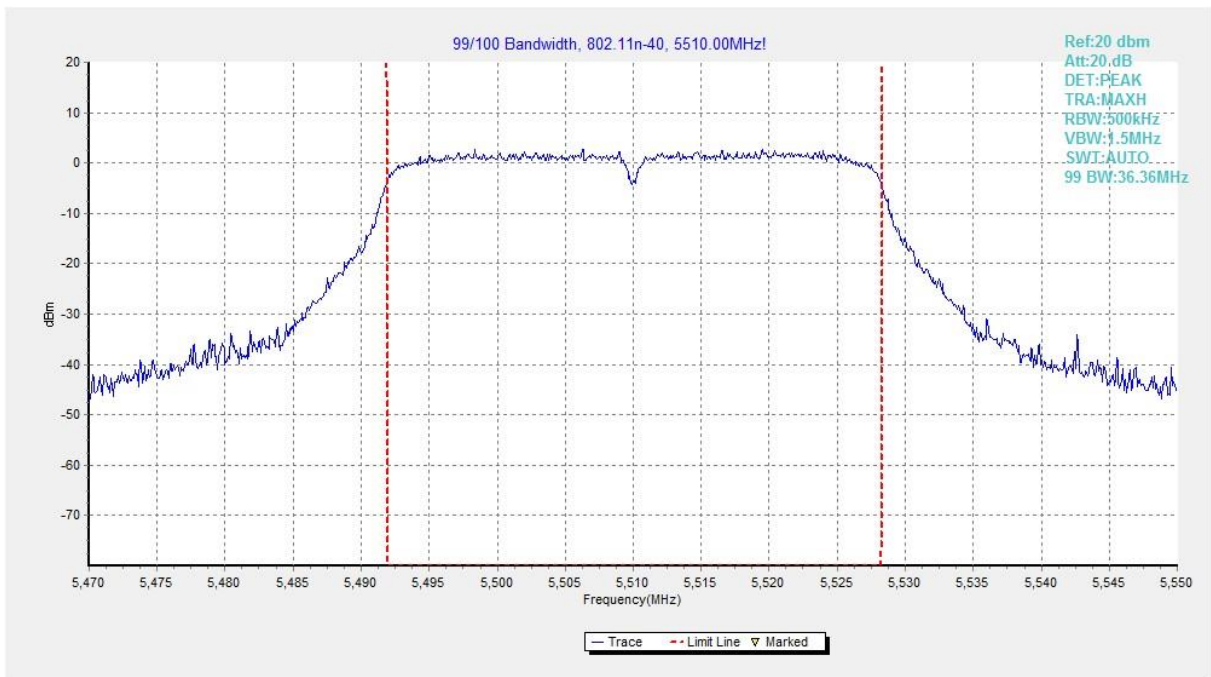


Fig. 40 99% Occupied Bandwidth (802.11n-HT40, 5510MHz)



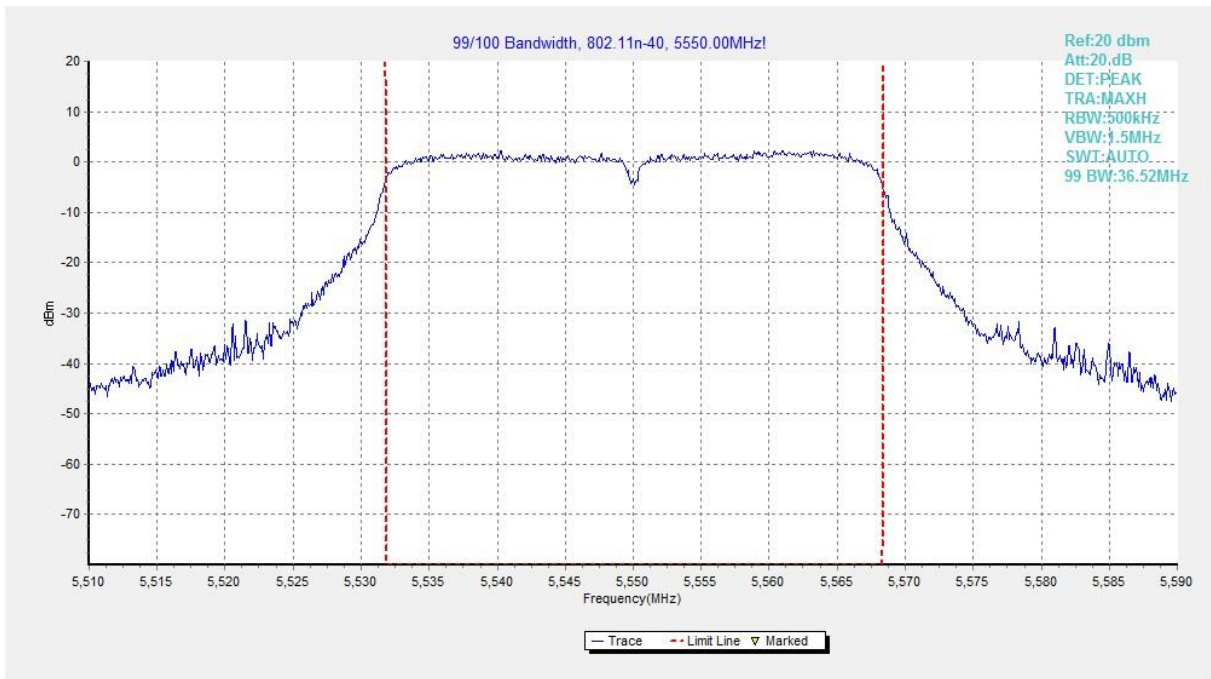


Fig. 41 99% Occupied Bandwidth (802. 11n-HT40, 5550MHz)

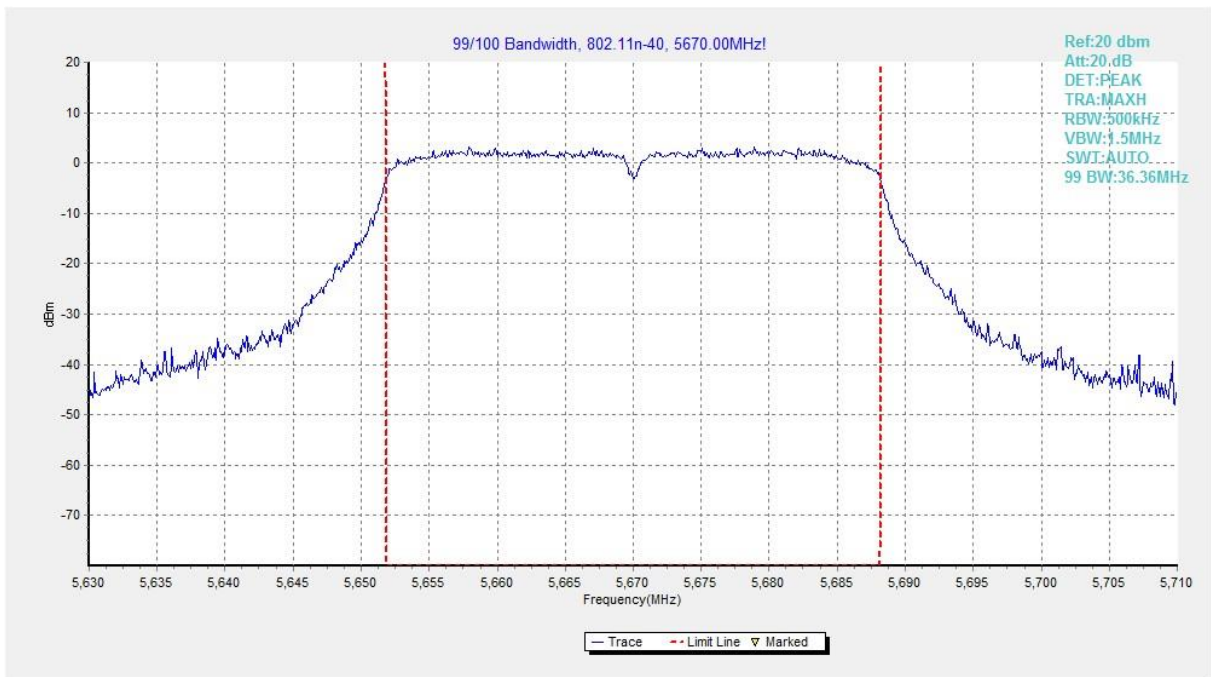


Fig. 42 99% Occupied Bandwidth (802. 11n-HT40, 5670MHz)