

# MEASUREMENT REPORT

## FCC PART 15.407/ WLAN 802.11a/n/ac

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**FCC ID:** PJZMESH1200  
**Application:** DASAN Zhone Solutions, Inc.  
**Application Type:** Certification  
**Product:** MESH AP Product  
**Model No.:** MESH-1200  
**Serial Model No.:** MESH-1200-XXX (XX= A-Z and 0-9 characters)  
**FCC Classification:** Unlicensed National Information Infrastructure (NII)  
**FCC Rule Part(s):** Part15 Subpart E (Section 15.407)  
**Test Procedure(s):** ANSI C63.10-2013  
**Test Date:** October 29 ~ November 03, 2020

Reviewed By:

*Oscar Shi*

Oscar Shi

Approved By:

*Robin Wu*

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported here in relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Shenzhen) Co., Ltd.

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## Revision History

Report No.	Version	Description	Issue Date	Note
2010RSZ077-U2	Rev. 01	Initial Report	04-12-2021	Valid

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## 1. General Information

### 1.1. Applicant

DASAN Zhone Solutions, Inc.

1350 South Loop Rd. Suite 130 Alameda California, 94502, USA

### 1.2. Manufacturer

DASAN Zhone Solutions, Inc.

1350 South Loop Rd. Suite 130 Alameda California, 94502, USA

### 1.3. Testing Facility

<input type="checkbox"/>	<b>Test Site – MRT Suzhou Laboratory</b>
	<b>Laboratory Location (Suzhou - Wuzhong)</b> D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	<b>Laboratory Location (Suzhou - SIP)</b> 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	<b>Laboratory Accreditations</b>
	A2LA: 3628.01 <span style="float: right;">CNAS: L10551</span>
	FCC: CN1166 <span style="float: right;">ISED: CN0001</span>
	VCCI: R-20025, G-20034, C-20020, T-20020
<input checked="" type="checkbox"/>	<b>Test Site – MRT Shenzhen Laboratory</b>
	<b>Laboratory Location (Shenzhen)</b> 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	<b>Laboratory Accreditations</b>
	A2LA: 3628.02 <span style="float: right;">CNAS: L10551</span>
	FCC: CN1284 <span style="float: right;">ISED: CN0105</span>
<input type="checkbox"/>	<b>Test Site – MRT Taiwan Laboratory</b>
	<b>Laboratory Location (Taiwan)</b> No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	<b>Laboratory Accreditations</b>
	TAF: L3261-190725
	FCC: 291082, TW3261 <span style="float: right;">ISED: TW3261</span>

## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

Product Name	MESH AP Product
Model No.	MESH-1200
Serial Model No.	MESH-1200-XXX (XX= A-Z and 0-9 characters)
Wi-Fi Specification	802.11a/b/g/n/ac
Serial Number	313238233/313238214
<b>Accessories</b>	
Adapter	Model No: S12A12-120A100-PT Input: 100 ~ 240V ~ 50/60Hz, 0.4A Output: 12.0V=1.0A, 12.0W
Note: The model difference is just model name, choose Model MESH-1200 to be tested in this report.	

### 2.2. Product Specification Subjective to this Report

Frequency Range:	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz,5775MHz
Type of Modulation:	802.11a/n/ac: OFDM
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.6Mbps
Maximum Average Output Power:	802.11a: 23.08dBm 802.11n-HT20: 21.61dBm 802.11n-HT40: 22.34dBm 802.11ac-VHT20: 21.43dBm 802.11ac-VHT40: 22.36dBm 802.11ac-VHT80:21.54dBm

Note: For other features of this EUT, test report will be issued separately.

### 2.3. Description of Available Antennas

Antenna Type	Frequency Band (GHz)	Antenna Gain(dBi)		Directional Gain(dBi)	
		Ant 0	Ant 1	For Power	For PSD
PIFA Antenna	2.4~2.5	3.60	3.20	3.60	6.61
	5.15 ~ 5.25	4.20	3.90	4.20	7.21
	5.725~5.85				

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11a/b/g/n/ac mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,  
Array Gain =  $10 \log (N_{ANT} / N_{SS})$  dB = 3.01;
- For power measurements on IEEE 802.11 devices,  
Array Gain = 0 dB for  $N_{ANT} \leq 4$ ;

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain.

Note 3: The antenna gain is declared by manufacture.



## 2.4. Working Frequencies for this Report

### 802.11a/n-HT20/ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

### 802.11n-HT40/ac-VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz
159	5795 MHz	--	--	--	--

### 802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	--	--

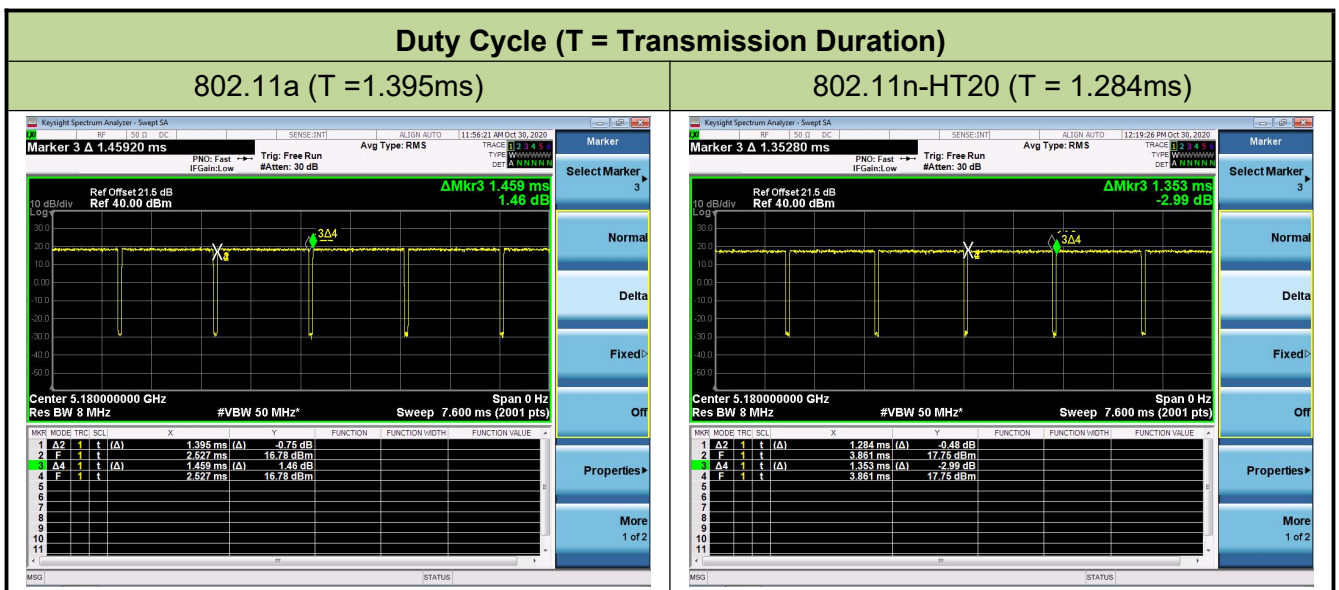
## 2.5. Test Mode

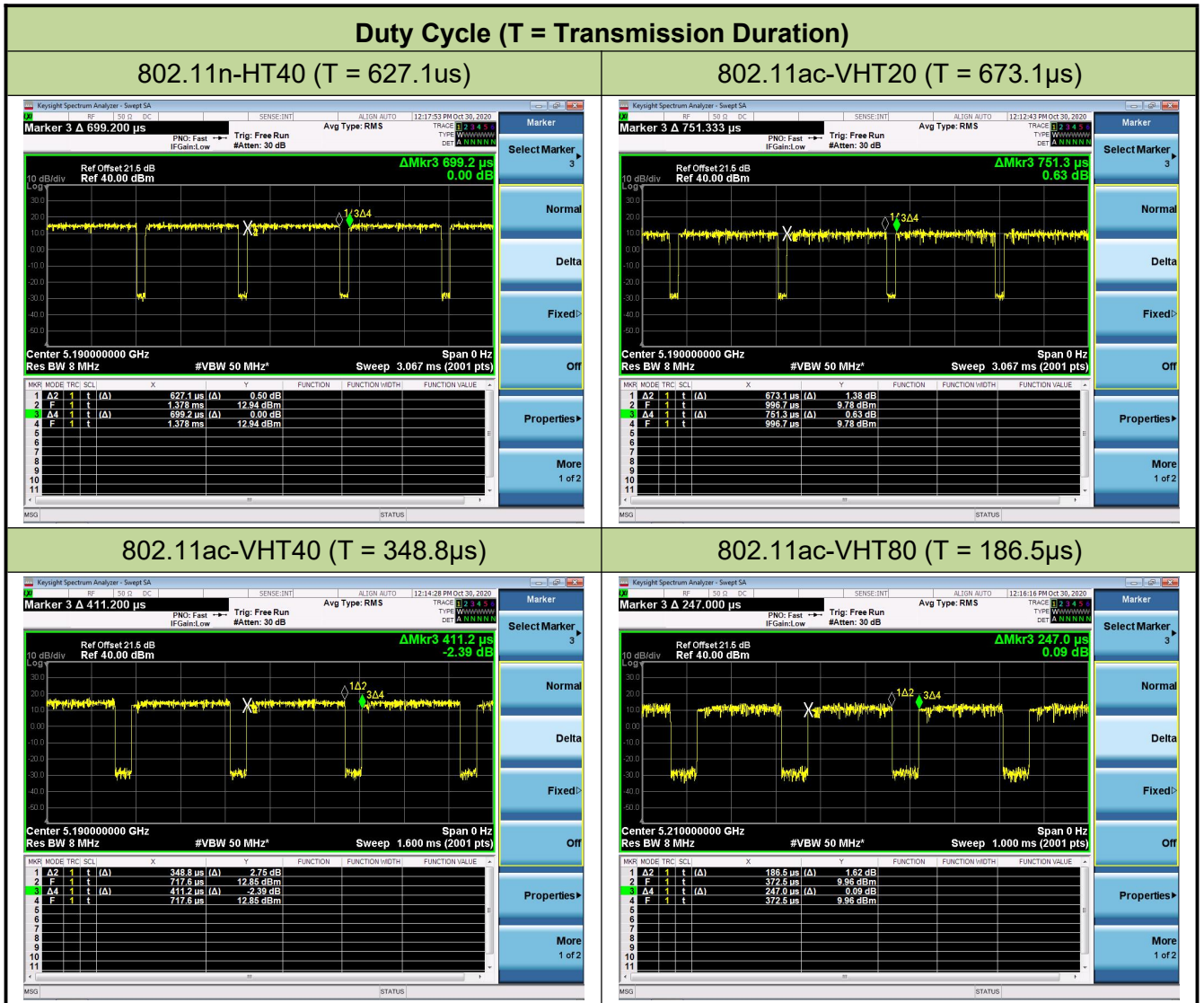
Test Mode	Mode 1: Transmit by 802.11a (6Mbps)
	Mode 2: Transmit by 802.11n-HT20 (MCS0)
	Mode 3: Transmit by 802.11n-HT40 (MCS0)
	Mode 4: Transmit by 802.11ac-VHT20 (MCS0)
	Mode 5: Transmit by 802.11ac-VHT40 (MCS0)
	Mode 6: Transmit by 802.11ac-VHT80 (MCS0)

## 2.6. Duty Cycle

5GHz (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11a	95.61%
802.11n-HT20	94.90%
802.11n-HT40	89.69%
802.11ac-VHT20	89.59%
802.11ac-VHT40	84.82%
802.11ac-VHT80	75.51%





## 2.7. Description of Test Software

The test utility software used during testing was "QATool\_Dbg.exe", and the version was v5.02. Power parameter value refers to operation description.

**2.8. EMI Suppression Device(s)/Modifications**

No EMI suppression device(s) were added and/or no modifications were made during testing.

**2.9. Labeling Requirements**

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

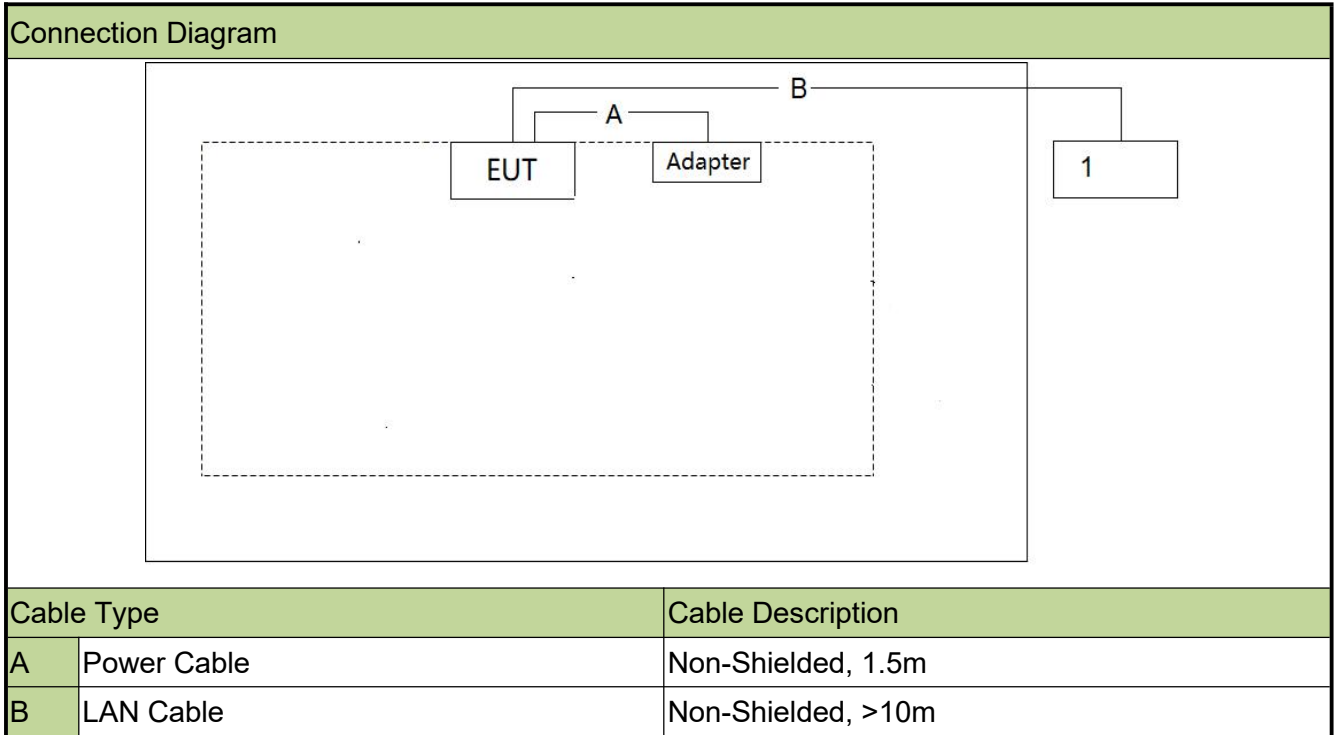
However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

**2.10. Test Environment Condition**

Ambient Temperature	15°C ~ 35°C
Relative Humidity	20%RH ~75%RH

### 2.11. Description of Test Configuration

The device was tested per the guidance ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



### 2.12. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Power Cord
1	Notebook	Lenovo	E495
			Non-Shielded, 1.8m

### 3. ANTENNA REQUIREMENTS

**Excerpt from §15.203 of the FCC Rules/Regulations:**

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

**Conclusion:**

The unit complies with the requirement of §15.203.

#### 4. TEST EQUIPMENT CALIBRATION DATE

##### Conducted Emissions–NS-SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESL3	MRTSUE06575	1 year	2021/07/09
EMI Test Receiver	R&S	ESR3	MRTSUE06575	1 year	2021/07/09
EXA Signal Analyzer	Keysight	N9010A	MRTSUE06195	1 year	2021/04/14
Two-Line V-Network	R&S	ENV 216(102494)	MRTSUE06578	1 year	2021/07/09
Two-Line V-Network	R&S	ENV216	MRTSUE06577	1 year	2021/07/09
8-WIRE ISN	R&S	ENY81	MRTSUE06579	1 year	2021/07/09
8-WIRE ISN for CAT6	R&S	ENY81-CA6	MRTSUE06580	1 year	2021/06/23
USB wideband power sensor	Keysight	U2021XA	MRTSUE06581	1 year	2021/08/21
Temperature/Humidity Meter	DELI	NO.8813	MRTSUE06587	1 year	2021/07/08
Shielding Anechoic Chamber	BOOMWAVE	SR2	MRTSUE06551	5 year	2024/06/04

##### Radiated Emissions–NS- AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06575	1 year	2021/07/09
EXA Signal Analyzer	Keysight	N9010A	MRTSUE06195	1 year	2021/04/14
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06573	1 year	2021/07/03
Broad-Band Horn Antenna	Schwarzbeck	9120D	MRTSUE06572	1 year	2021/07/03
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06292	1 year	2020/11/19
Broadband Coaxial Preamplicie	Schwarzbeck	BBV 9718	MRTSUE06574	1 year	2021/07/13
Preamplifier	Schwarzbeck	EMC184045S E	MRTSUE06641	1 year	2021/01/16
Thermal Hygrometer	DELI	NO.8813	MRTSUE06588	1 year	2021/07/08
Anechoic Chamber	BOOMWAVE	AC1	MRTSUE06496	1 year	2021/07/25

Software	Version	Function
EMI Software	V3	EMI Test Software

## 5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

<b>AC Conducted Emission Measurement</b>
Measurement Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
<b>Radiated Disturbance</b>
Measurement Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB
<b>Spurious Emissions, Conducted</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 0.78dB
<b>Output Power</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 1.13dB
<b>Power Spectrum Density</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 1.15dB
<b>Occupied Bandwidth</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 0.28%



## 6. TEST RESULT

### 6.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Bandwidth	N/A	Conducted	Pass	Section 6.2
15.407(e)	6dB Bandwidth	$\geq 500\text{kHz}$		Pass	Section 6.3
15.407(a)(1)(ii), (3)	Maximum Conducted Output Power	U-NII-1: $\leq 1\text{W}$ U-NII-3: $\leq 1\text{W}$		Pass	Section 6.4
15.407(h)(1)	Transmit Power Control	$\leq 24\text{dBm}$		N/A	Section 6.5
15.407(a)(1)(ii),(3)	Power Spectral Density	Refer to Section 6.6		Pass	Section 6.6
15.407(g)	Frequency Stability	N/A		Pass	Section 6.7
15.407(b)(1),(4)(i)	Undesirable Emissions	Refer to Section 6.9		Radiated	Pass
15.205, 15.209 15.407 (b)(1), (4)(i)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Pass		
15.207	AC Conducted Emissions 150kHz-30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 6.10

#### Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) The test results shown in the following sections represent the worst case emissions.
- 3) "N/A" means that the test item is not applicable, and the details refer to relevant section.

## 6.2. Emission Bandwidth Measurement

### 6.2.1. Test Limit

N/A

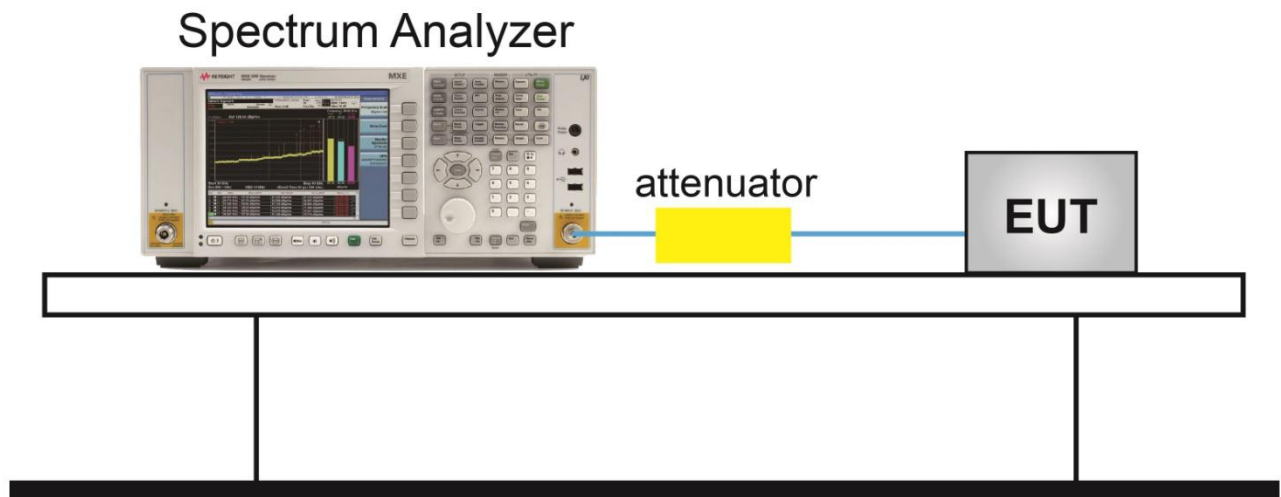
### 6.2.2. TestProcedureUsed

KDB 789033 D02v02r01 -Section C.1

### 6.2.3. TestSetting

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 maximum 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%.

### 6.2.4. Test Setup



### 6.2.5. Test Result

Product	MESH AP Product	Test Engineer	Selina Zhang
Test Site	NS-SR2	Test Date	2020/11/04

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
Ant 0 / Ant 0 + 1					
802.11a	6Mbps	36	5180	16.47	19.66
802.11a	6Mbps	44	5220	16.46	19.95
802.11a	6Mbps	48	5240	16.47	20.14
802.11a	6Mbps	149	5745	16.97	27.25
802.11a	6Mbps	157	5785	16.52	20.12
802.11a	6Mbps	165	5825	16.45	20.10
802.11n-HT20	MCS0	36	5180	17.58	19.97
802.11n-HT20	MCS0	44	5220	17.56	19.94
802.11n-HT20	MCS0	48	5240	17.69	20.36
802.11n-HT20	MCS0	149	5745	17.65	20.15
802.11n-HT20	MCS0	157	5785	17.64	20.38
802.11n-HT20	MCS0	165	5825	17.63	19.74
802.11n-HT40	MCS0	38	5190	35.92	40.56
802.11n-HT40	MCS0	46	5230	36.19	40.60
802.11n-HT40	MCS0	151	5755	36.39	47.57
802.11n-HT40	MCS0	159	5795	36.16	40.27
802.11ac-VHT20	MCS0	36	5180	17.58	20.04
802.11ac-VHT20	MCS0	44	5220	17.58	20.27
802.11ac-VHT20	MCS0	48	5240	17.63	19.93
802.11ac-VHT20	MCS0	149	5745	17.63	19.74
802.11ac-VHT20	MCS0	157	5785	17.62	20.00
802.11ac-VHT20	MCS0	165	5825	17.57	19.96
802.11ac-VHT40	MCS0	38	5190	35.92	40.16
802.11ac-VHT40	MCS0	46	5230	36.28	58.20
802.11ac-VHT40	MCS0	151	5755	36.39	59.78
802.11ac-VHT40	MCS0	159	5795	36.20	45.55
802.11ac-VHT80	MCS0	42	5210	75.27	79.60
802.11ac-VHT80	MCS0	155	5775	76.09	132.40

## 802.11a 26dB Bandwidth

## Channel 36 (5180MHz)



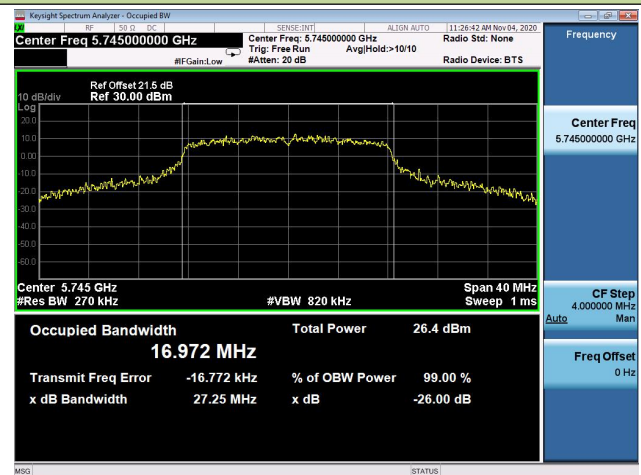
## Channel 44 (5220MHz)



## Channel 48 (5240MHz)



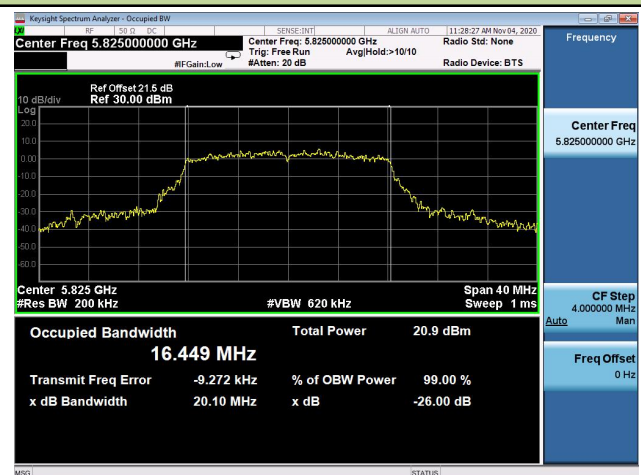
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)



## Channel 165 (5825MHz)



## 802.11n-HT20 26dB Bandwidth

## Channel 36 (5180MHz)



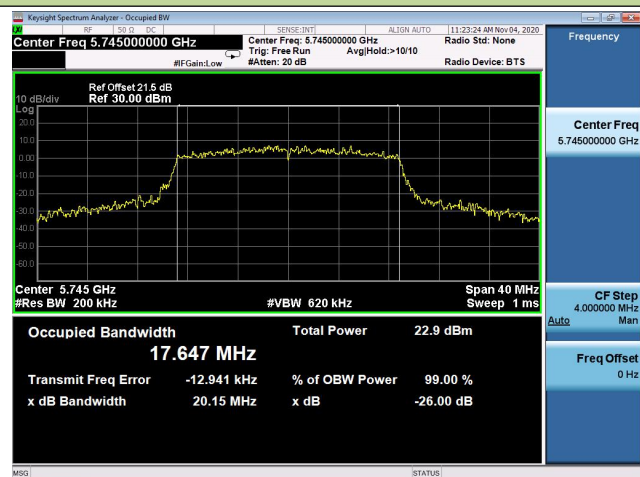
## Channel 44 (5220MHz)



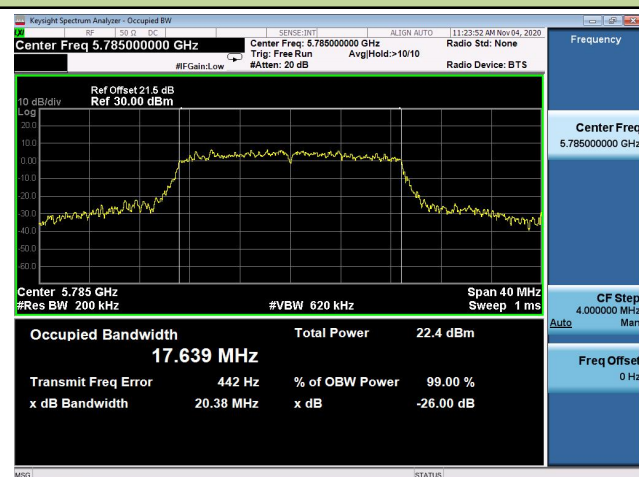
## Channel 48 (5240MHz)



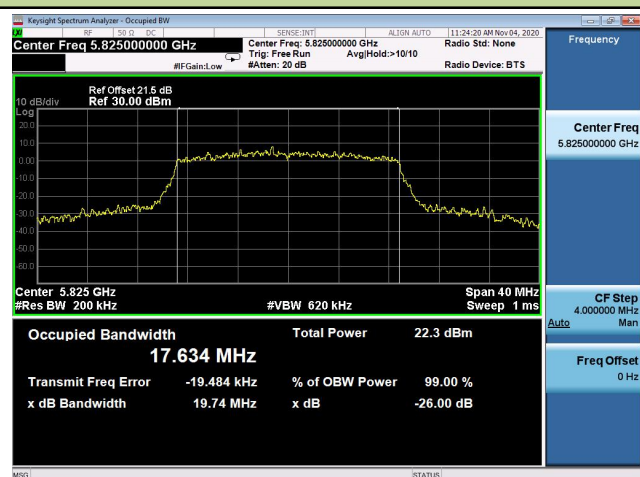
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

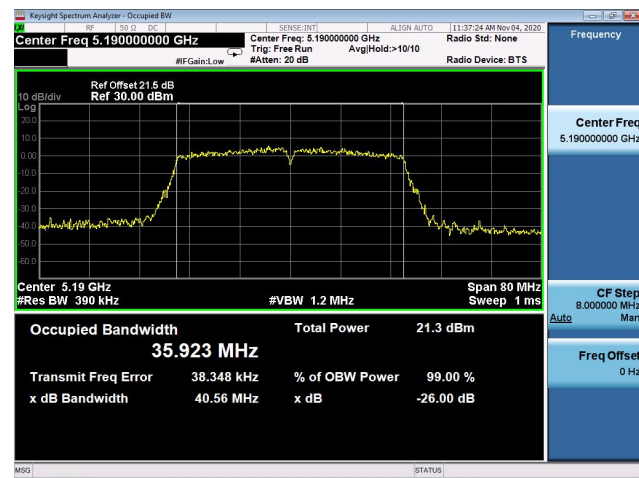


## Channel 165 (5825MHz)

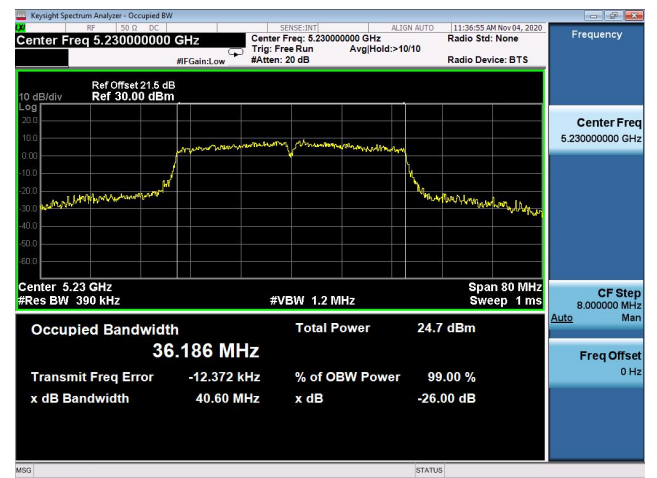


## 802.11n-HT40 26dB Bandwidth

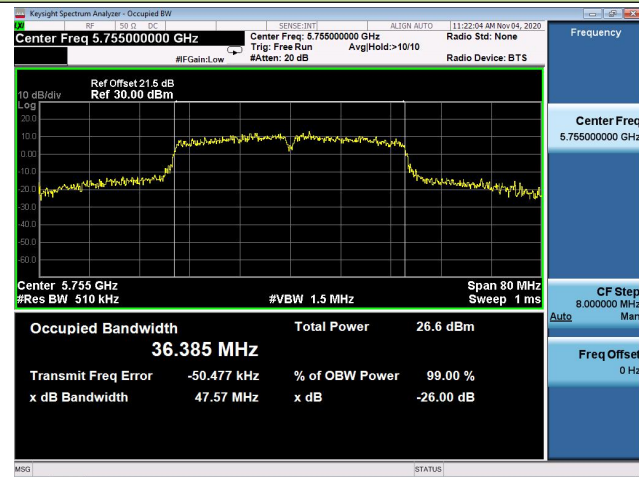
## Channel 38 (5190MHz)



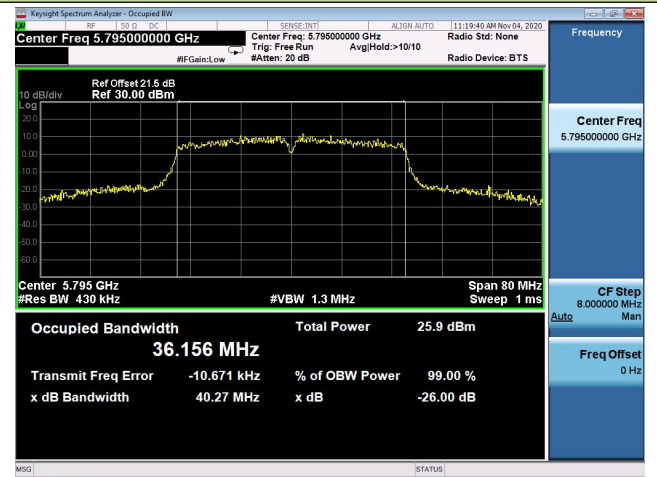
## Channel 46 (5230MHz)



## Channel 151 (5755MHz)

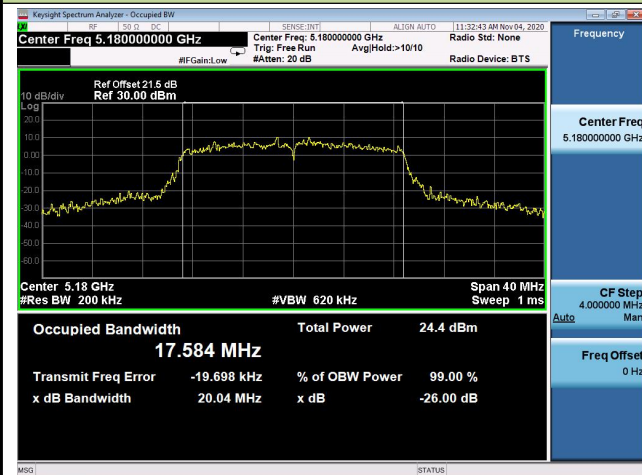


## Channel 159 (5795MHz)

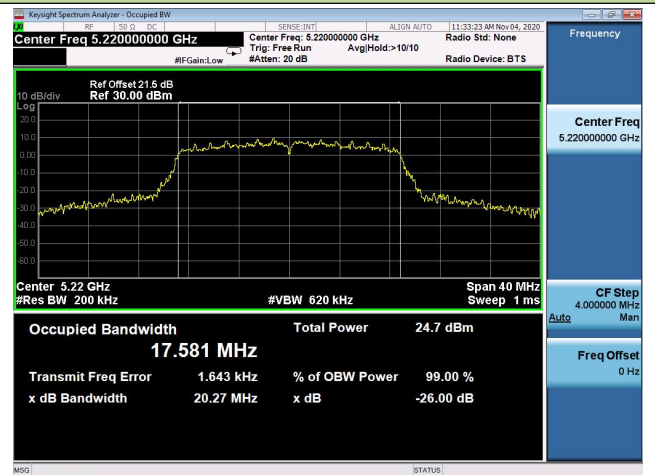


## 802.11ac-VHT20 26dB Bandwidth

## Channel 36 (5180MHz)



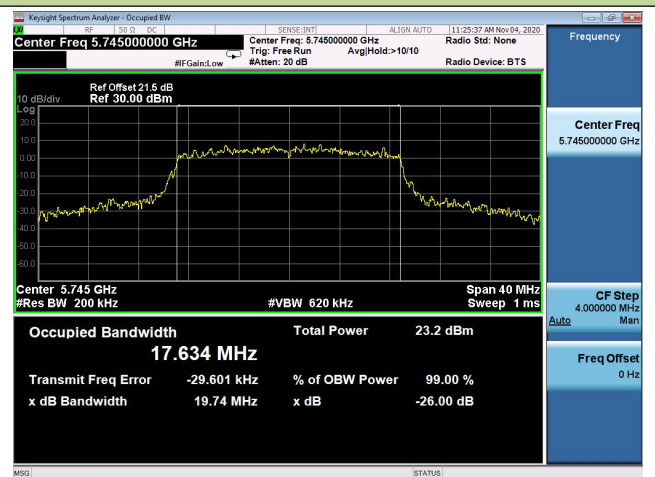
## Channel 44 (5220MHz)



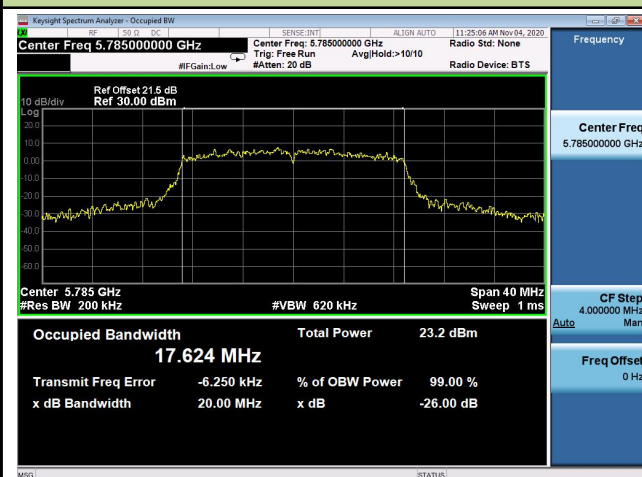
## Channel 48 (5240MHz)



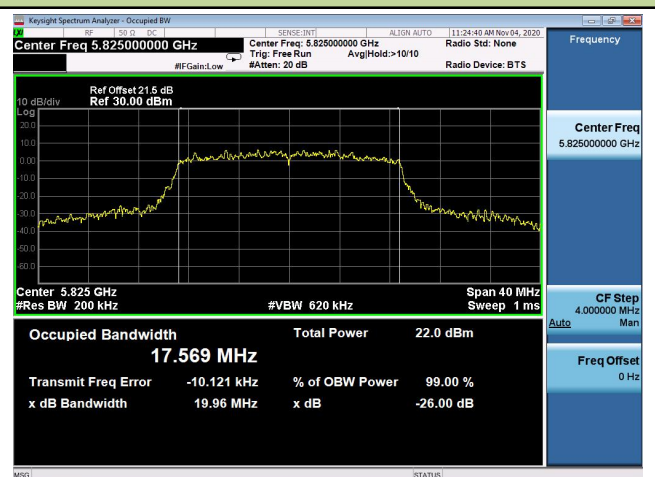
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

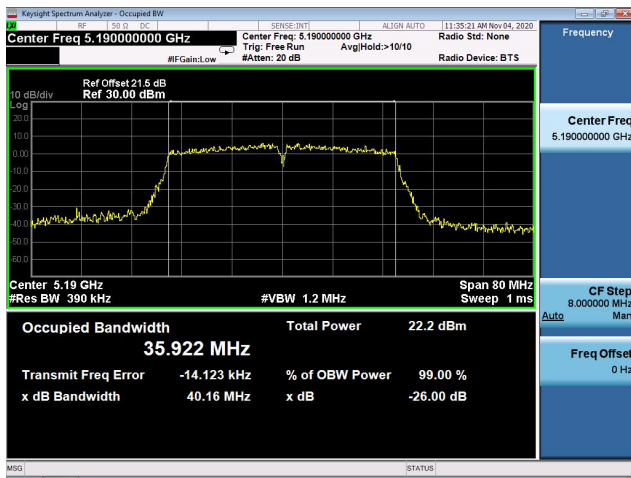


## Channel 165 (5825MHz)

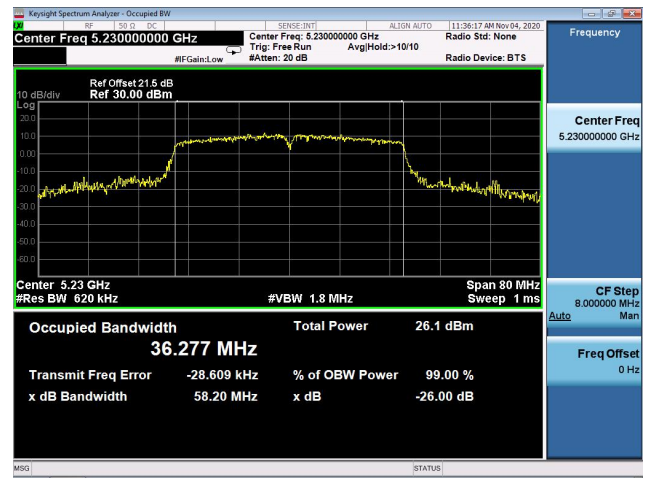


802.11ac-VHT40 26dB Bandwidth

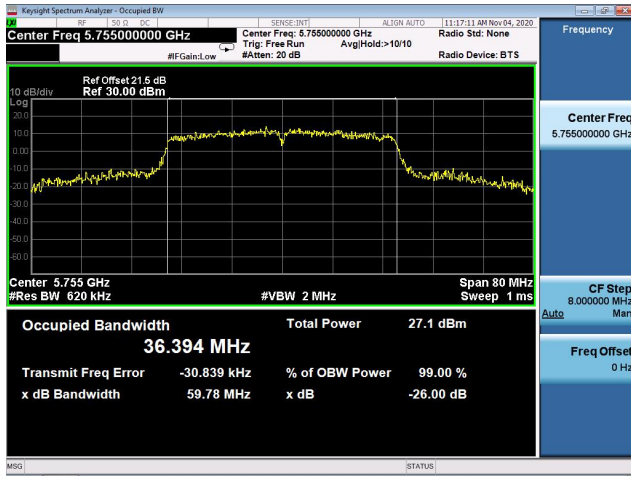
Channel 38 (5190MHz)



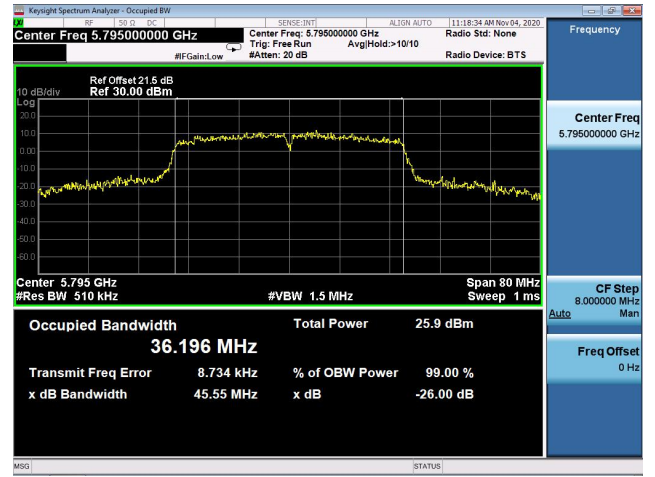
Channel 46 (5230MHz)



Channel 151 (5755MHz)



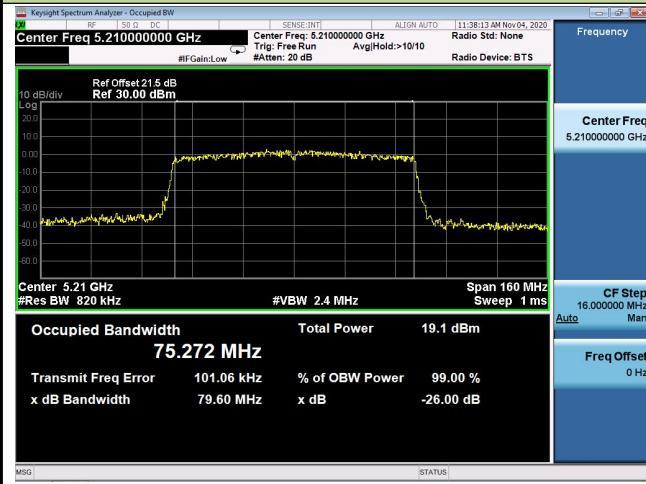
Channel 159 (5795MHz)





802.11ac-VHT80 26dB Bandwidth

Channel 42 (5210MHz)



Channel 155 (5775MHz)



### 6.3. 6dB Bandwidth Measurement

#### 6.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

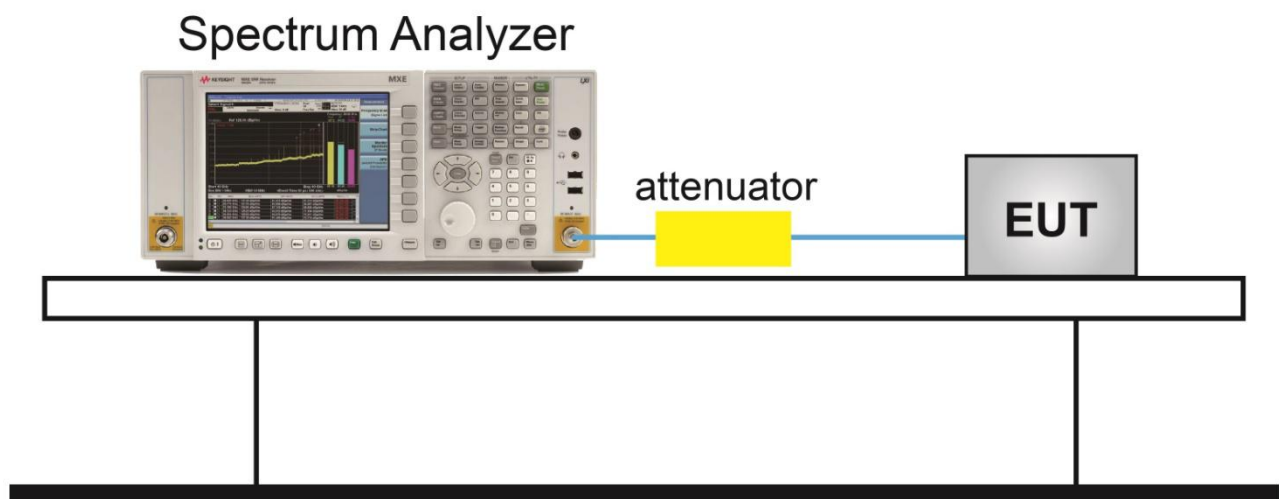
#### 6.3.2. Test Procedure Used

KDB 789033 D02v02r01 - Section C.2

#### 6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = Max hold.
6. Sweep = Auto couple.
7. Allow the trace to stabilize.
8. 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.

#### 6.3.4. Test Setup



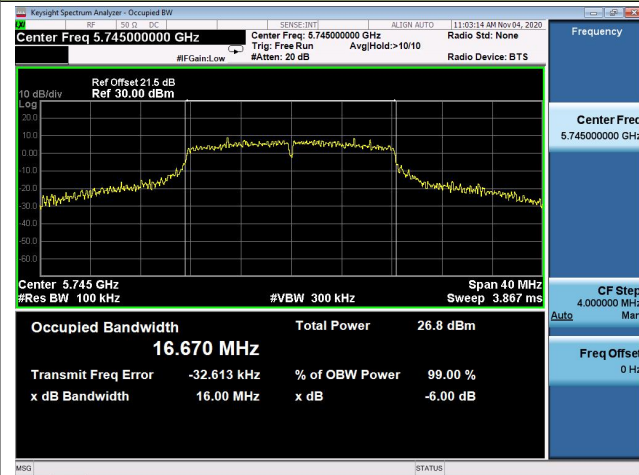
### 6.3.5. TestResult

Product	MESH AP Product	Test Engineer	Selina Zhang
Test Site	NS-SR2	Test Date	2020/11/04

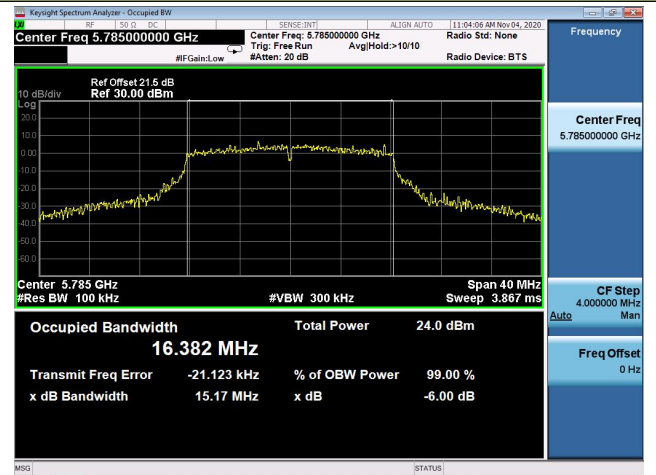
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1						
802.11a	6Mbps	149	5745	16.00	≥0.5	Pass
802.11a	6Mbps	157	5785	15.17	≥0.5	Pass
802.11a	6Mbps	165	5825	16.32	≥0.5	Pass
802.11n-HT20	MCS0	149	5745	17.12	≥0.5	Pass
802.11n-HT20	MCS0	157	5785	17.62	≥0.5	Pass
802.11n-HT20	MCS0	165	5825	16.65	≥0.5	Pass
802.11n-HT40	MCS0	151	5755	32.59	≥0.5	Pass
802.11n-HT40	MCS0	159	5795	35.15	≥0.5	Pass
802.11ac-VHT20	MCS0	149	5745	12.91	≥0.5	Pass
802.11ac-VHT20	MCS0	157	5785	10.77	≥0.5	Pass
802.11ac-VHT20	MCS0	165	5825	15.02	≥0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.15	≥0.5	Pass
802.11ac-VHT40	MCS0	159	5795	33.86	≥0.5	Pass
802.11ac-VHT80	MCS0	155	5775	73.89	≥0.5	Pass

802.11a 6dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

