



# FCC PART 15E TEST REPORT No.23T04Z80846-12

for

**TCL Communication Ltd.**

**GSM/UMTS/LTE/NR Mobile phone**

**T613P**

**FCC ID:2ACCJH182**

with

**Hardware Version: 05**

**Software Version: 6FSE**

**Issued Date: 2024-02-20**

**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 CTTL.

**Test Laboratory:**

**CTTL-Telecommunication Technology Labs, CAICT**

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: [ctl\\_terminals@caict.ac.cn](mailto:ctl_terminals@caict.ac.cn), website: [www.caict.ac.cn](http://www.caict.ac.cn)



## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
23T04Z80846-12	Rev.0	1st edition	2024-02-06
23T04Z80846-12	Rev.1	Update the 802.11ac mode to VHT.	2024-02-20

Note: the latest revision of the test report supersedes all previous version.

## **CONTENTS**

<b>1. TEST LABORATORY .....</b>	<b>5</b>
1.1. INTRODUCTION & ACCREDITATION .....	5
1.2. TESTING LOCATION .....	5
1.3. TESTING ENVIRONMENT .....	5
1.4. PROJECT DATE .....	5
1.5. SIGNATURE .....	6
<b>2. CLIENT INFORMATION .....</b>	<b>7</b>
2.1. APPLICANT INFORMATION .....	7
2.2. MANUFACTURER INFORMATION .....	7
<b>3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) .....</b>	<b>8</b>
3.1. ABOUT EUT .....	8
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST .....	8
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST .....	8
3.4. GENERAL DESCRIPTION .....	8
3.5. INTERPRETATION OF THE TEST ENVIRONMENT .....	9
<b>4. REFERENCE DOCUMENTS .....</b>	<b>9</b>
4.1. DOCUMENTS SUPPLIED BY APPLICANT .....	9
4.2. REFERENCE DOCUMENTS FOR TESTING .....	9
<b>5. LABORATORY ENVIRONMENT .....</b>	<b>9</b>
<b>6. TEST RESULTS .....</b>	<b>10</b>
6.1. SUMMARY OF TEST RESULTS .....	10
6.2. STATEMENTS .....	10
6.3. TEST CONDITIONS .....	10
<b>7. TEST FACILITIES UTILIZED .....</b>	<b>11</b>
<b>8. MEASUREMENT UNCERTAINTY .....</b>	<b>12</b>
8.1 TRANSMITTER OUTPUT POWER .....	12
8.2 PEAK POWER SPECTRAL DENSITY .....	12
8.3 26dB EMISSION BANDWIDTH .....	12
8.4 BAND EDGES COMPLIANCE .....	12
8.5 SPURIOUS EMISSIONS .....	12
8.6 RADIATED UNWANTED EMISSION .....	12
8.7 AC POWER-LINE CONDUCTED EMISSION .....	12
<b>ANNEX A: DETAILED TEST RESULTS .....</b>	<b>13</b>
A.1. MEASUREMENT METHOD .....	13
A.2. MAXIMUM OUTPUT POWER .....	14
A.2.1 ANTENNA GAIN .....	14



A.2.2 MAXIMUM OUTPUT POWER-CONDUCTED ..... 14

A.3. PEAK POWER SPECTRAL DENSITY (CONDUCTED) ..... 18

A.4. 26dB EMISSION BANDWIDTH (CONDUCTED) .....20

A.5. RADIATED UNWANTED EMISSION ..... 38

A.5.1 LIMITS ..... 38

A.5.2 TEST SETUP ..... 39

A.5.3 TEST PROCEDURES ..... 40

A.5.4 CALCULATION ..... 40

A.6. AC POWERLINE CONDUCTED EMISSION (150kHz- 30MHz) .....80

A.6.1 SUMMARY ..... 80

A.6.2 METHOD OF MEASUREMENT ..... 80

A.6.3 TEST CONDITION .....80

A.6.4 TEST SETUP ..... 80

A.7. 99% OCCUPIED BANDWIDTH ..... 84

A.8. POWER CONTROL ..... 89

**ANNEX B: EUT PARAMETERS .....89**

**ANNEX C: ACCREDITATION CERTIFICATE ..... 90**

## **1. Test Laboratory**

### **1.1. Introduction & Accreditation**

**Telecommunication Technology Labs, CAICT** is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

### **1.2. Testing Location**

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China100191

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
100191, P. R. China

### **1.3. Testing Environment**

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

### **1.4. Project date**

Testing Start Date: 2023-12-15


Testing End Date: 2024-02-06

### 1.5. Signature

姚兴宇

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Yao Xingyu  
(Prepared this test report)



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Zheng Wei  
(Reviewed this test report)



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Pang Shuai  
(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science  
Park, Shatin, NT, Hong Kong  
City: Hong Kong  
Postal Code: /  
Country: China  
Telephone: +86 755 3661 1621  
Fax: +86 755 3661 2000-81722

### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science  
Park, Shatin, NT, Hong Kong  
City: Hong Kong  
Postal Code: /  
Country: China  
Telephone: +86 755 3661 1621  
Fax: +86 755 3661 2000-81722

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

#### 3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model name	T613P
FCC ID	2ACCJH182
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Nominal Voltage	3.87V
Extreme High Voltage	4.45V
Extreme Low Voltage	3.6V

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
EUT2(UT23a)	356497200001582/ 356497200001681	05	6FSE	2023-12-19
EUT1(UT18a)	356497200001855/ 356497200001954	05	6FSE	2024-01-08

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

EUT2(UT23a) is used for Conduction test, EUT1(UT18a) is used for Radiation test.

#### 3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Dummy battery	/	/
AE2	Charger	805A-018A-1A	/
AE3	Charger	HJ-FC001K7-US	/

\*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 GSM/UMTS/LTE/NR Mobile phone 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.



### **3.5. Interpretation of the Test Environment**

For the test methods, the test environment uncertainty figures correspond to an expansion factor  $k=2$ .

#### Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

## **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.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

## **5. Laboratory Environment**

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

## 6. Test Results

### 6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	<b>P</b>
Peak Power Spectral Density	15.407	/	<b>P</b>
Occupied 26dB Bandwidth	15.403	/	<b>P</b>
Radiated Unwanted Emission	15.407, 15.205, 15.209	/	<b>P</b>
AC Powerline Conducted Emission	15.107, 15.207	/	<b>P</b>
99% Occupied bandwidth	/	/	<b>P</b>
Transmit Power Control	15.407	/	<b>NA</b>

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

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

### 6.2. Statements

CTTL has evaluated the test cases as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.

This report only deals with the WLAN function among the features described in section 3.

### 6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.87V
Humidity	44%

## 7. Test Facilities Utilized

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-07-04
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2024-03-06
3	LISN	ENV216	101200	R&S	1 year	2024-06-05
4	Test Receiver	ESCI	100344	R&S	1 year	2024-02-21
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103144	Rohde & Schwarz	1 year	2024-07-08
2	EMI Antenna	VULB9163	01222	Schwarzbeck	1 year	2024-02-28
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2024-04-25

### Test Software

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V8.53.0	R&S
	EMC32 V10.60.20	R&S
Conducted Emission	EMC32 V8.53.0	R&S

## 8. Measurement Uncertainty

### 8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

### 8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

### 8.3 26dB Emission Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

### 8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

### 8.5 Spurious Emissions

#### Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

### 8.6 Radiated Unwanted Emission

Frequency Range	Uncertainty(dB) (k=2)
9kHz-30MHz	4.92
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.73
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.58
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.37

### 8.7 AC Power-line Conducted Emission

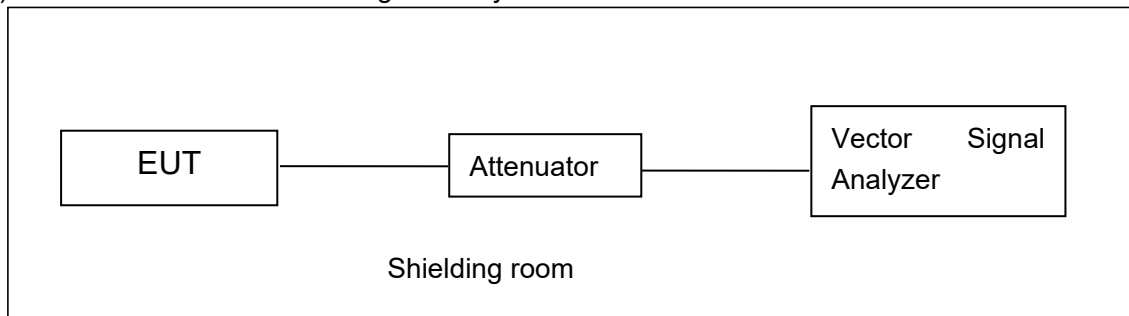
Measurement Uncertainty : 3.08dB,k=2

## **ANNEX A: Detailed Test Results**

### **A.1. Measurement Method**

#### **A.1.1. 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. Vector Signal Analyzer



#### **A.1.2. Radiated Emission Measurements**

Measurement performed according to Clause 6.4, 6.5, 6.6 in ANSI C63.10-2013 and II.G.4, II.G.5, II.G.6 in KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. 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 from 0° to 360° and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientations

## A.2. Maximum output Power

### Measurement Limit and Method:

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

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

The measurement method SA-2 is made according to KDB 789033

### A.2.1 Antenna Gain

Antenna gain is 5150-5350MHz:-1dBi、5470-5725MHz:-2dBi, and the value is supplied by the applicant or manufacturer.

### A.2.2 Maximum output Power-Conducted

EUT ID: EUT2

### Measurement Results:

#### 802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	13.97	/	/	/	/	/	/	/
	5200MHz	13.86	/	/	/	/	/	/	/
	5240MHz	13.99	/	/	/	/	/	/	/
	5260MHz	13.92	/	/	/	/	/	/	/
	5280MHz	13.43	/	/	/	/	/	/	/
	5320MHz	13.82	/	/	/	/	/	/	/
	5500MHz	13.52	/	/	/	/	/	/	/
	5580MHz	14.03	/	/	/	/	/	/	/
	5700MHz	13.56	/	/	/	/	/	/	/
	5720MHz	13.93	/	/	/	/	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

#### 802.11n-HT20 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz	12.32	/	/	/	/	/	/	/
	5200MHz	12.60	/	/	/	/	/	/	/
	5240MHz	12.75	/	/	/	/	/	/	/
	5260MHz	12.68	/	/	/	/	/	/	/
	5280MHz	12.23	/	/	/	/	/	/	/
	5320MHz	12.12	/	/	/	/	/	/	/

	5500MHz	12.69	/	/	/	/	/	/	/
	5580MHz	12.67	/	/	/	/	/	/	/
	5700MHz	12.73	/	/	/	/	/	/	/
	5720MHz	12.66	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

#### 802.11ac-VHT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (VHT20)	5180MHz	11.65	/	/	/	/	/	/	/	/
	5200MHz	11.76	/	/	/	/	/	/	/	/
	5240MHz	11.80	/	/	/	/	/	/	/	/
	5260MHz	12.09	/	/	/	/	/	/	/	/
	5280MHz	11.21	/	/	/	/	/	/	/	/
	5320MHz	11.23	/	/	/	/	/	/	/	/
	5500MHz	11.27	/	/	/	/	/	/	/	/
	5580MHz	11.23	/	/	/	/	/	/	/	/
	5700MHz	11.74	/	/	/	/	/	/	/	/
	5720MHz	11.59	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

#### 802.11n-HT40 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz	12.21	/	/	/	/	/	/	/
	5230MHz	12.65	/	/	/	/	/	/	/
	5270MHz	12.63	/	/	/	/	/	/	/
	5310MHz	12.68	/	/	/	/	/	/	/
	5510MHz	12.30	/	/	/	/	/	/	/
	5550MHz	12.67	/	/	/	/	/	/	/
	5670MHz	12.64	/	/	/	/	/	/	/
	5710MHz	12.63	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

**802.11ac-VHT40 mode**

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT40)	5190MHz	10.50	/	/	/	/	/	/	/	/	/
	5230MHz	10.69	/	/	/	/	/	/	/	/	/
	5270MHz	10.31	/	/	/	/	/	/	/	/	/
	5310MHz	10.74	/	/	/	/	/	/	/	/	/
	5510MHz	10.67	/	/	/	/	/	/	/	/	/
	5550MHz	10.69	/	/	/	/	/	/	/	/	/
	5670MHz	10.58	/	/	/	/	/	/	/	/	/
	5710MHz	10.53	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

**802.11ac-VHT80 mode**

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT80)	5210MHz	9.23	/	/	/	/	/	/	/	/	/
	5290MHz	9.10	/	/	/	/	/	/	/	/	/
	5530MHz	9.34	/	/	/	/	/	/	/	/	/
	5610MHz	8.88	/	/	/	/	/	/	/	/	/
	5690MHz	8.62	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

The duty cycle of all mode are 100%





18:14:13 24.01.2024

**Maximum output Power: 11a CH116**

**Conclusion: PASS**

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

#### Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

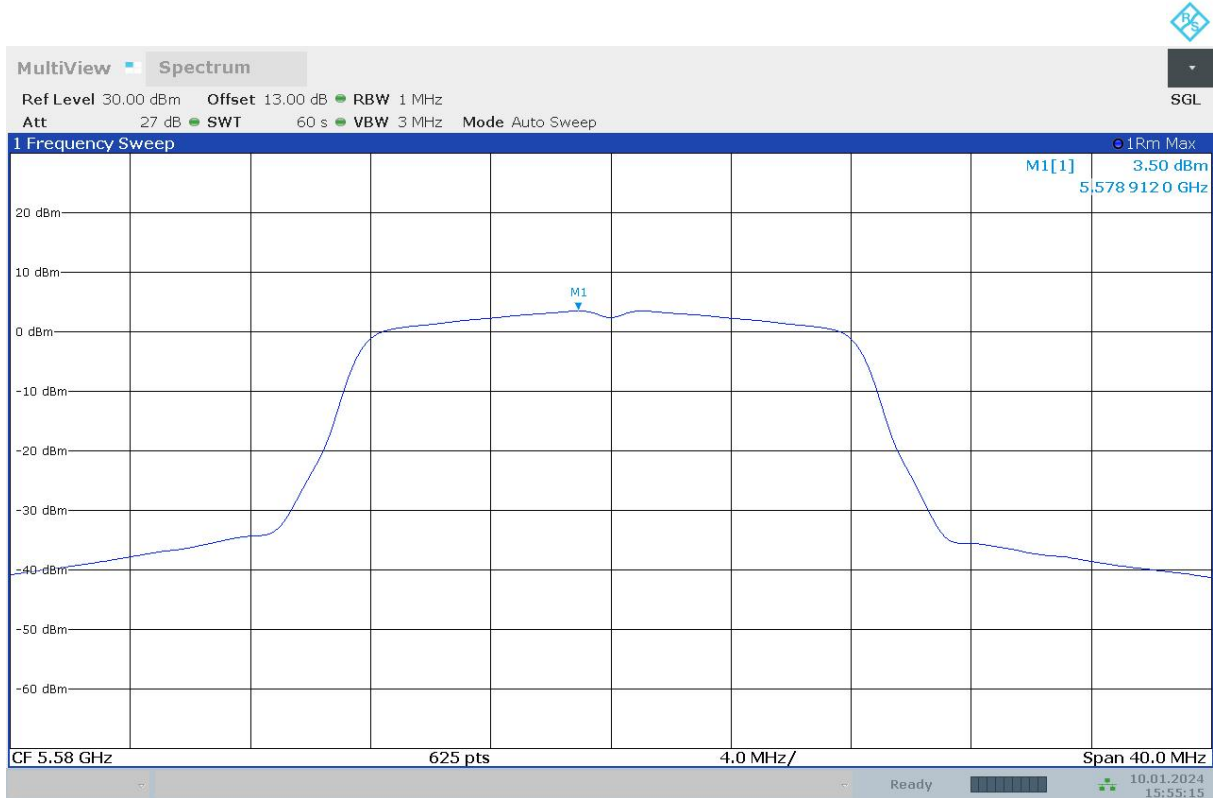
The output power measurement method Section F is made according to KDB 789033

EUT ID: EUT2

#### Measurement Results:

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	3.15	P
	5200 MHz	3.21	P
	5240 MHz	3.27	P
	5260 MHz	3.31	P
	5280 MHz	3.32	P
	5320 MHz	3.26	P
	5500 MHz	3.19	P
	5580 MHz	3.50	P
	5700 MHz	3.15	P
802.11n HT20	5180 MHz	0.90	P
	5200 MHz	0.71	P
	5240 MHz	0.90	P
	5260 MHz	0.83	P
	5280 MHz	0.65	P
	5320 MHz	0.91	P
	5500 MHz	0.49	P
	5580 MHz	0.35	P
	5700 MHz	0.06	P
	5720 MHz	0.05	P
802.11n HT40	5190 MHz	-1.15	P
	5230 MHz	-0.95	P
	5270 MHz	-0.83	P
	5310 MHz	-0.79	P
	5510 MHz	-0.95	P
	5550 MHz	-0.91	P
	5670 MHz	-1.02	P
	5710 MHz	-1.05	P
802.11ac VHT80	5210 MHz	-7.87	P
	5290 MHz	-7.69	P

	5530 MHz	-7.26	P
	5610 MHz	-7.85	P
	5690 MHz	-7.54	P



**Peak Power Spectral Density: 11a CH116**

**Conclusion: PASS**

#### **A.4. 26dB Emission Bandwidth (conducted)**

##### **Measurement Limit:**

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

The measurement is made according to KDB 789033

##### **Measurement Uncertainty:**

Measurement Uncertainty	60.80Hz
-------------------------	---------

**EUT ID: EUT2**

##### **Measurement Result:**

Mode	Frequency	26dB Emission Bandwidth ( MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.1	20.45	P
	5200 MHz	Fig.2	20.35	P
	5240 MHz	Fig.3	20.40	P
	5260 MHz	Fig.4	20.45	P
	5280 MHz	Fig.5	20.45	P
	5320 MHz	Fig.6	20.55	P
	5500 MHz	Fig.7	20.40	P
	5580 MHz	Fig.8	20.30	P
	5700 MHz	Fig.9	20.50	P
	5720 MHz	Fig.10	20.20	P
802.11n HT20	5180 MHz	Fig.11	20.85	P
	5200 MHz	Fig.12	20.75	P
	5240 MHz	Fig.13	20.80	P
	5260 MHz	Fig.14	20.80	P
	5280 MHz	Fig.15	20.75	P
	5320 MHz	Fig.16	20.80	P
	5500 MHz	Fig.17	20.80	P
	5580 MHz	Fig.18	20.75	P
	5700 MHz	Fig.19	20.85	P
	5720 MHz	Fig.20	20.32	P
802.11n HT40	5190 MHz	Fig.21	40.72	P
	5230 MHz	Fig.22	40.56	P
	5270 MHz	Fig.23	40.40	P
	5310 MHz	Fig.24	40.64	P
	5510 MHz	Fig.25	40.96	P
	5550 MHz	Fig.26	40.64	P
	5670 MHz	Fig.27	40.48	P
	5710 MHz	Fig.28	40.96	P
802.11ac	5210MHz	Fig.29	81.28	P

VHT80	5290MHz	Fig.30	81.28	P
	5530MHz	Fig.31	81.44	P
	5610 MHz	Fig.32	81.28	P
	5690MHz	Fig.33	81.44	P

Test graphs as below:

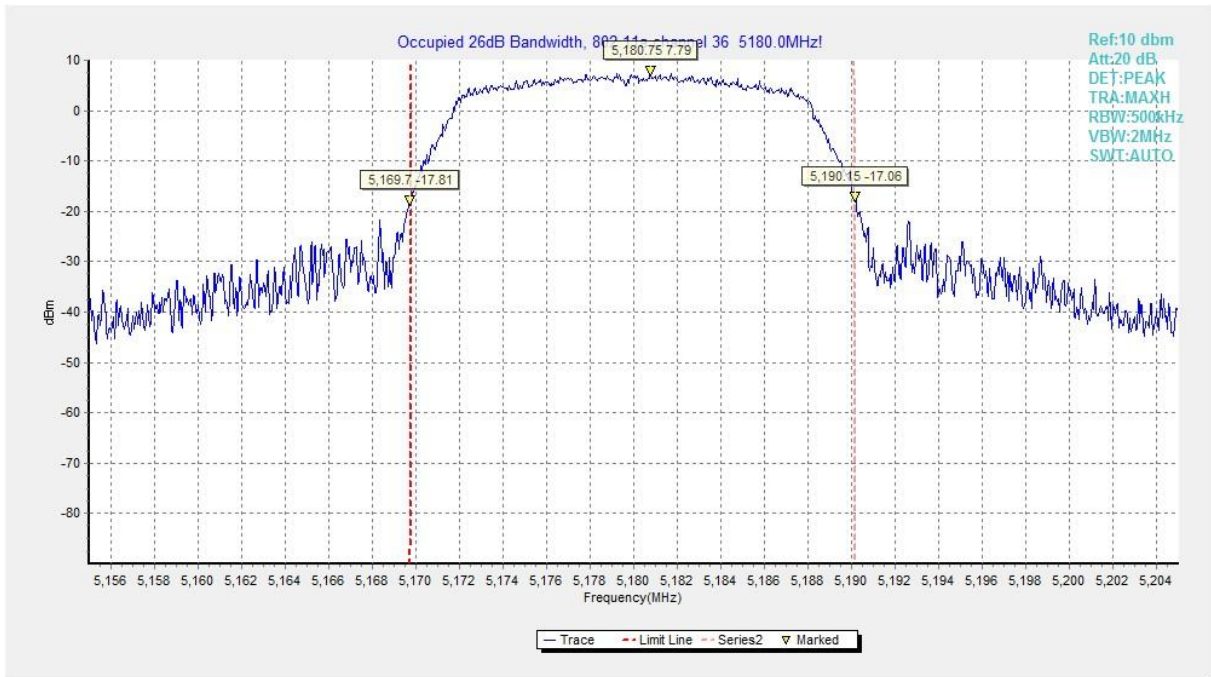


Fig.1 26dB Emission Bandwidth (802.11a, 5180MHz)

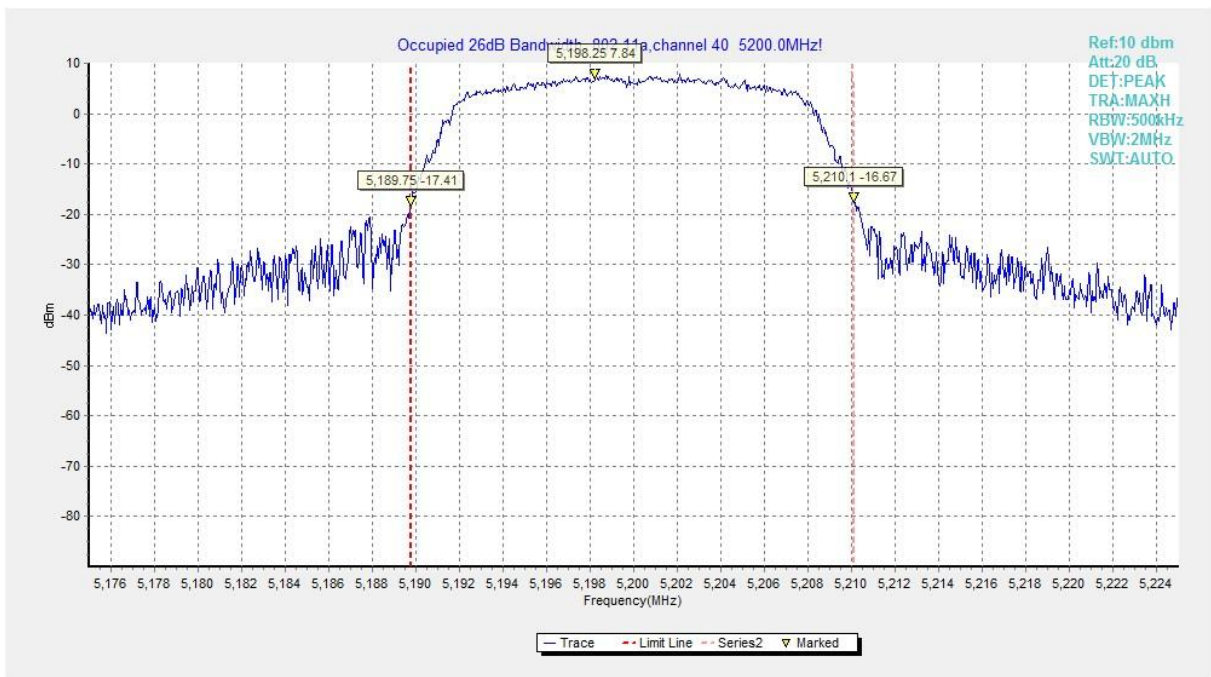
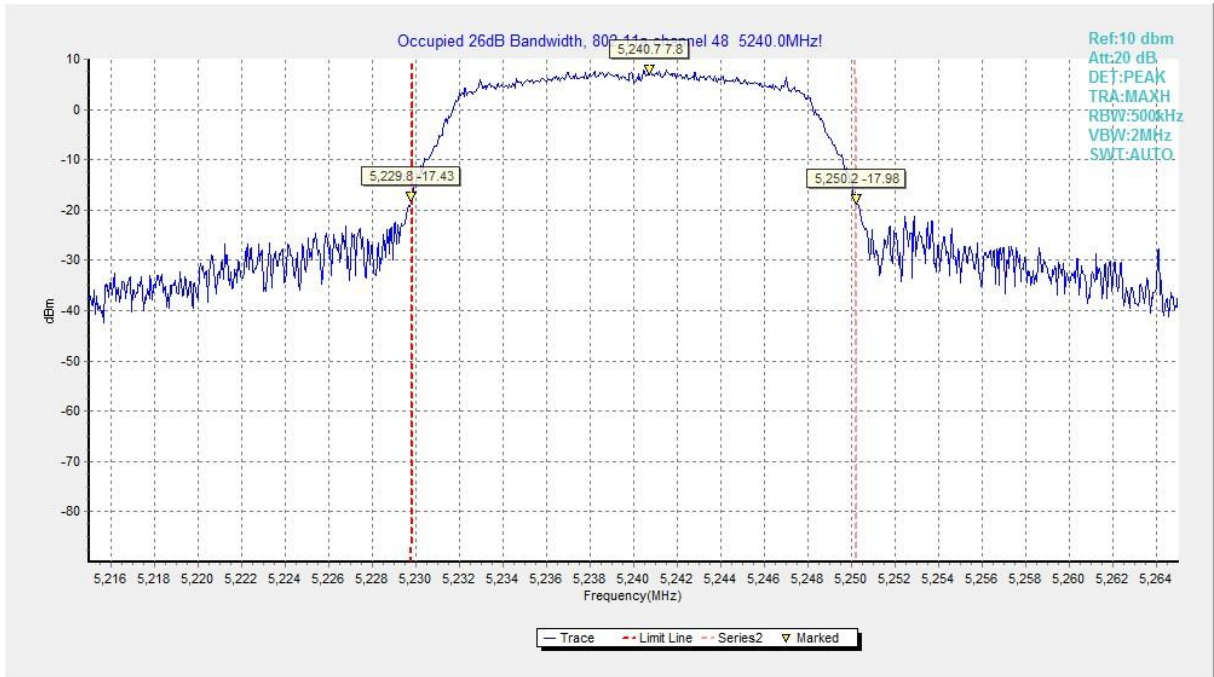
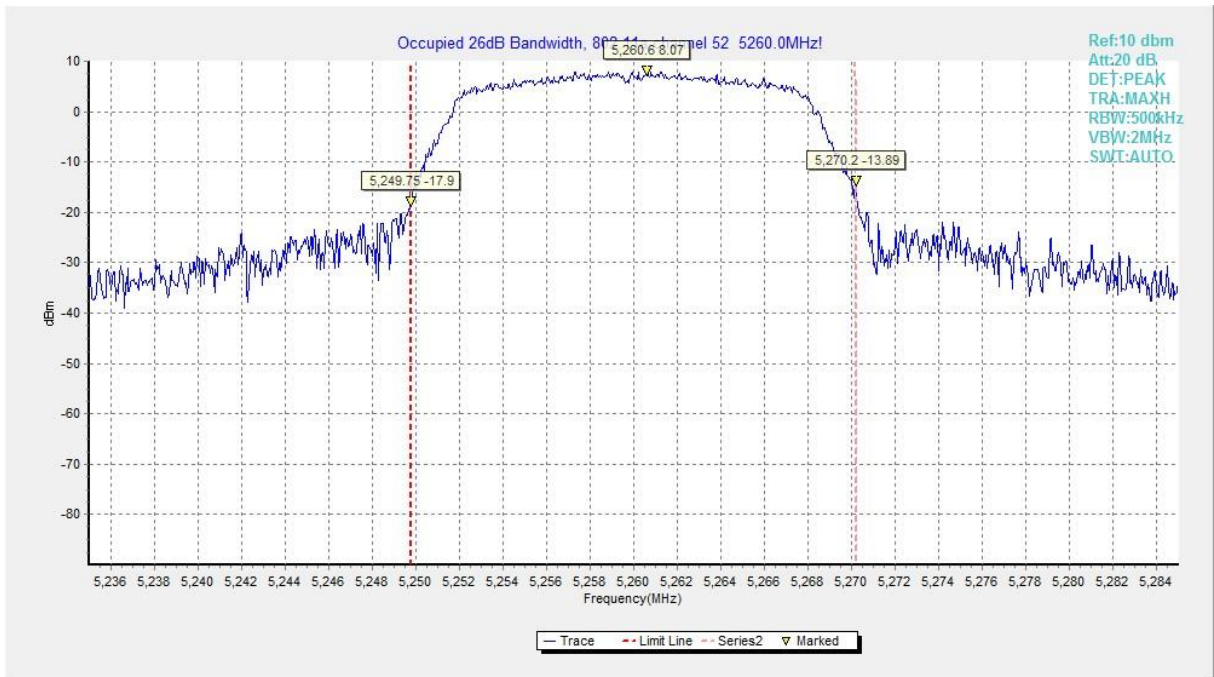


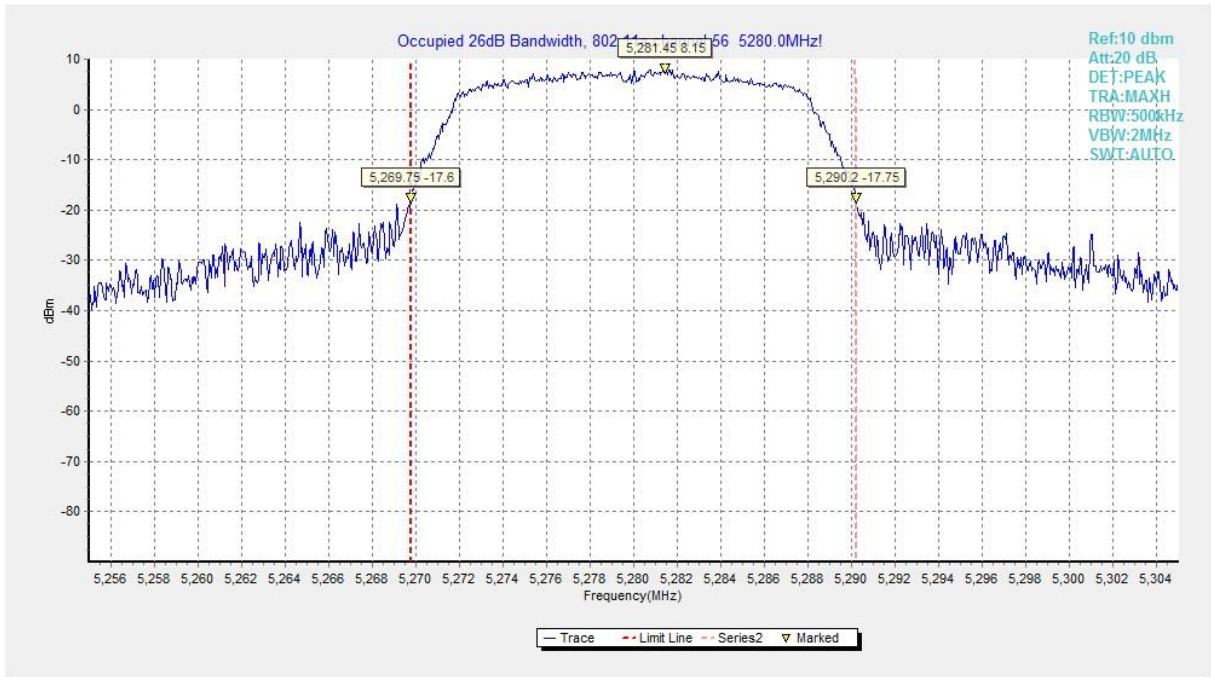
Fig.2 26dB Emission Bandwidth (802.11a, 5200MHz)



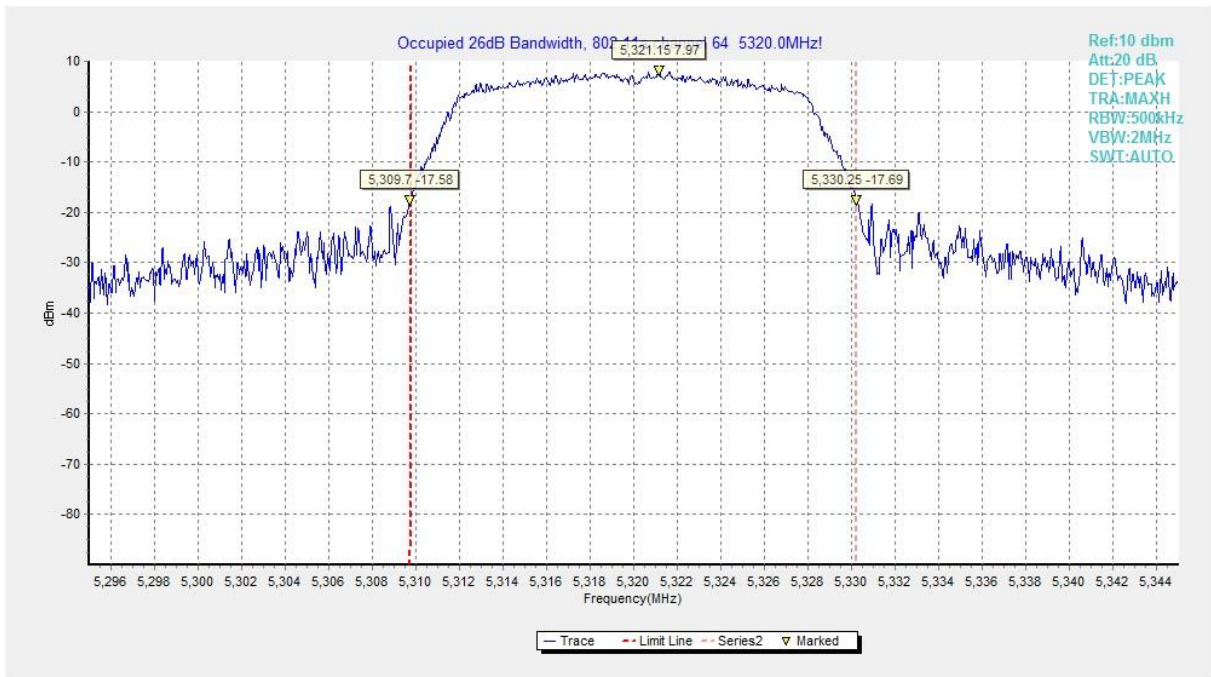
**Fig.3 26dB Emission Bandwidth (802.11a, 5240MHz)**



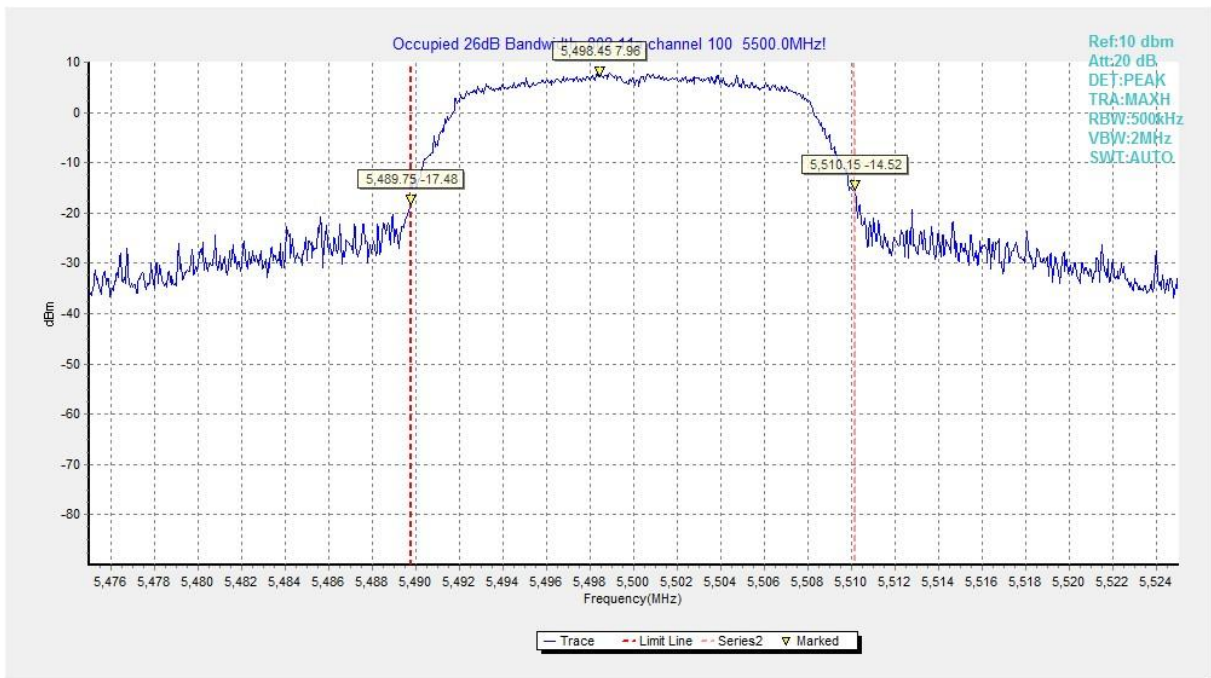
**Fig.4 26dB Emission Bandwidth (802.11a, 5260MHz)**



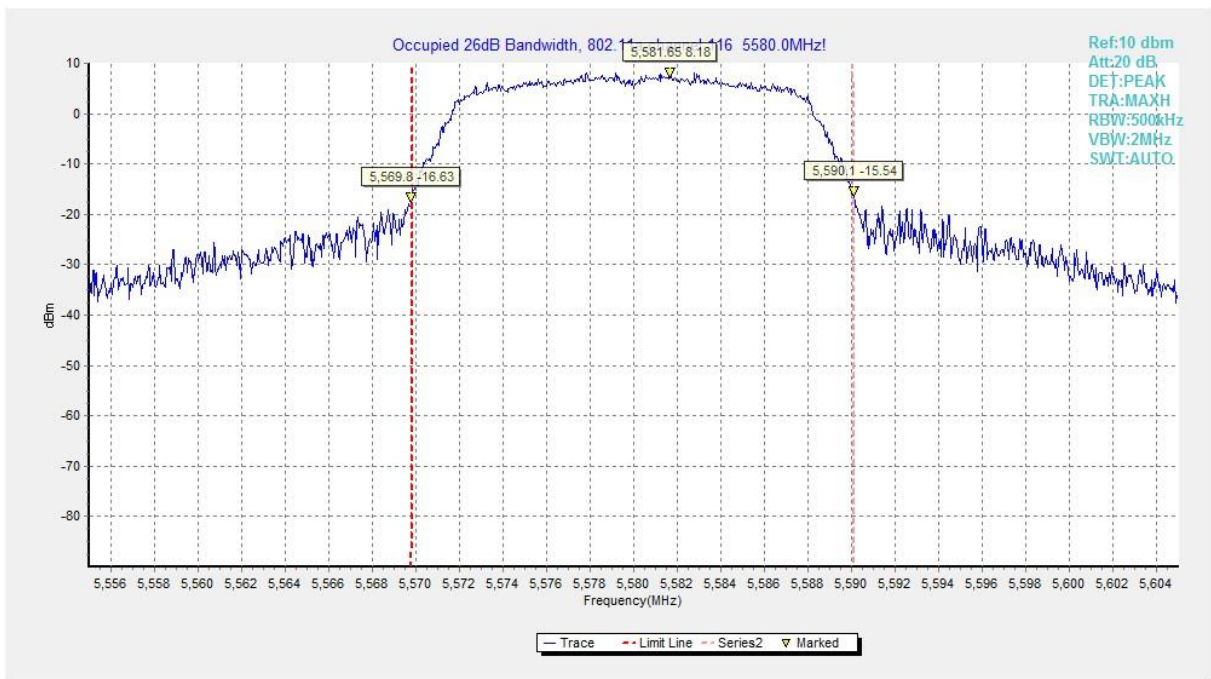
**Fig.5 26dB Emission Bandwidth (802.11a, 5280MHz)**



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



**Fig.7 26dB Emission Bandwidth (802.11a, 5500MHz)**



**Fig.8 26dB Emission Bandwidth (802.11a, 5580MHz)**



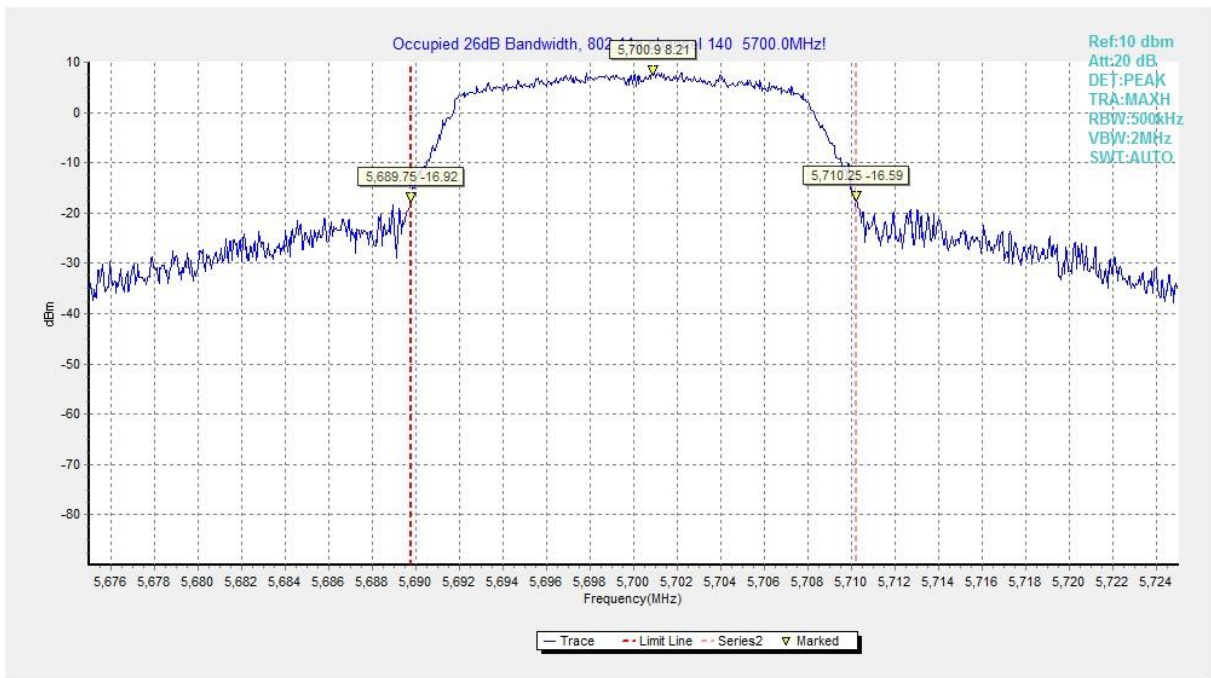


Fig.9 26dB Emission Bandwidth (802.11a, 5700MHz)



Fig.10 26dB Emission Bandwidth (802.11a, 5720MHz)

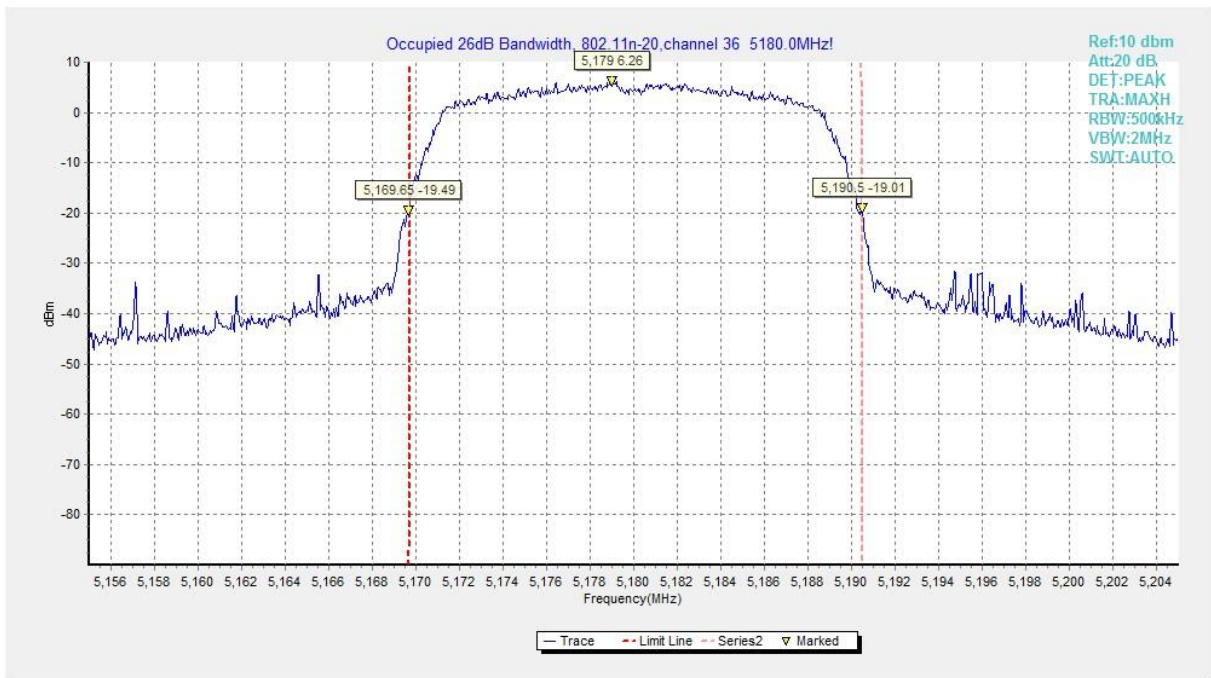


Fig.11 26dB Emission Bandwidth (802.11n-HT20, 5180MHz)

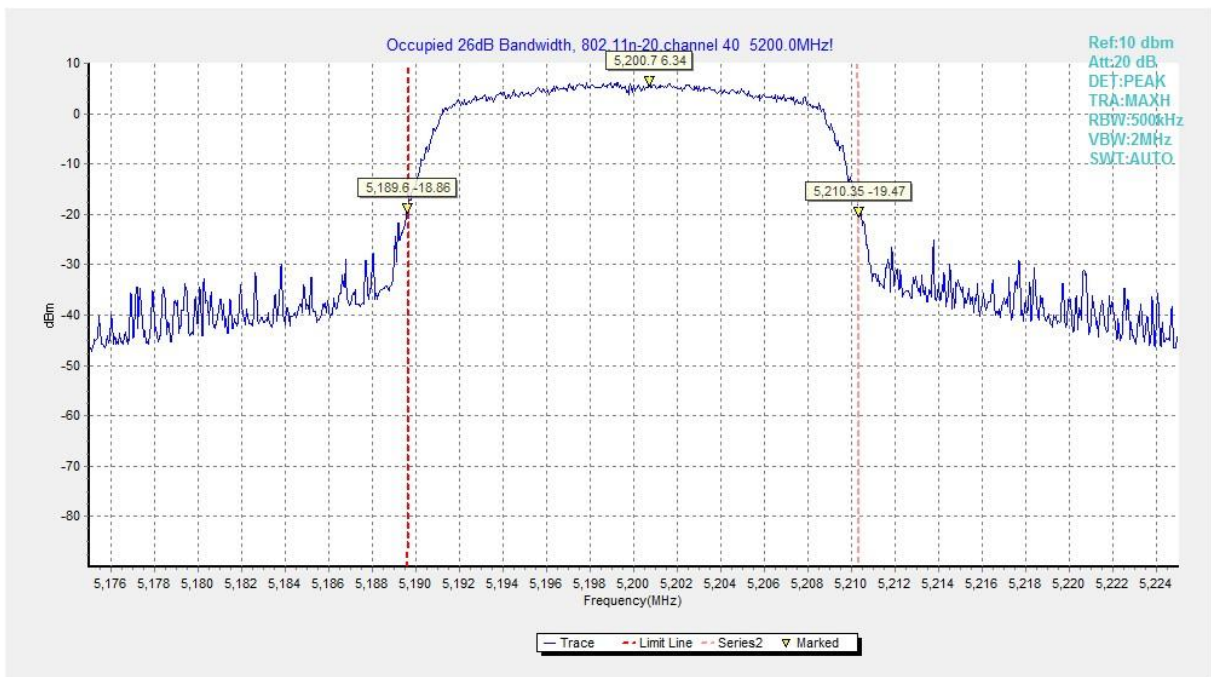


Fig.12 26dB Emission Bandwidth (802.11n-HT20, 5200MHz)

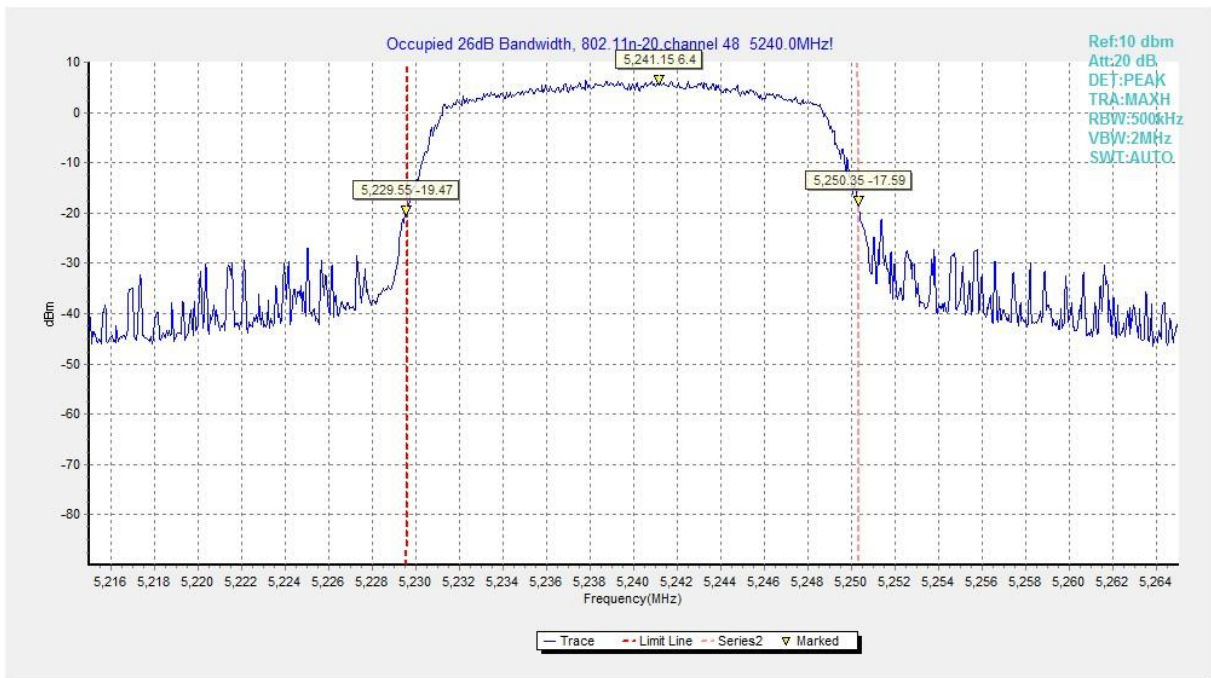


Fig.13 26dB Emission Bandwidth (802.11n-HT20, 5240MHz)

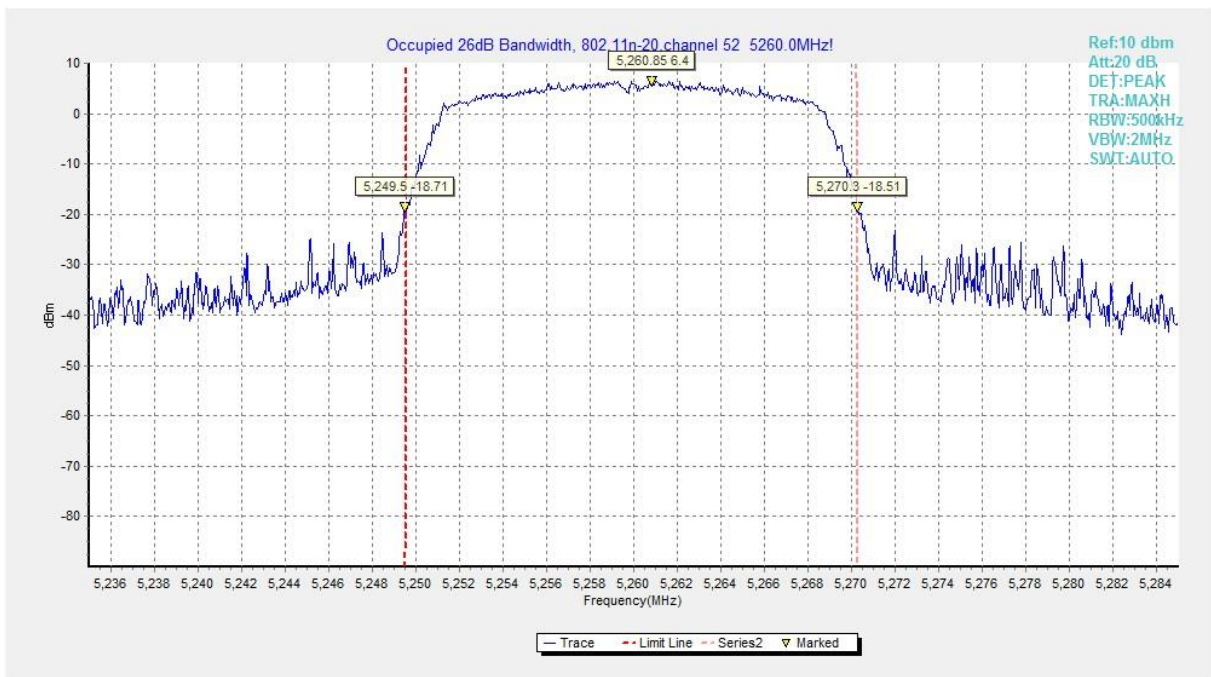


Fig.14 26dB Emission Bandwidth (802.11n-HT20, 5260MHz)

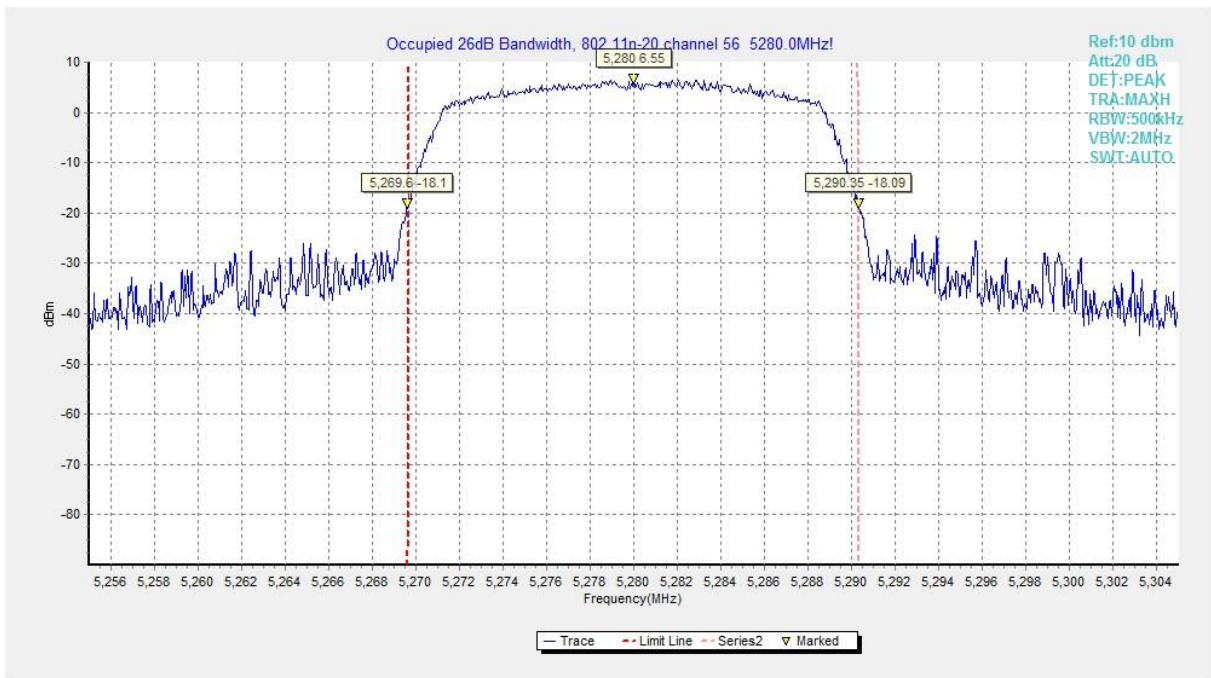


Fig.15 26dB Emission Bandwidth (802.11n-HT20, 5280MHz)

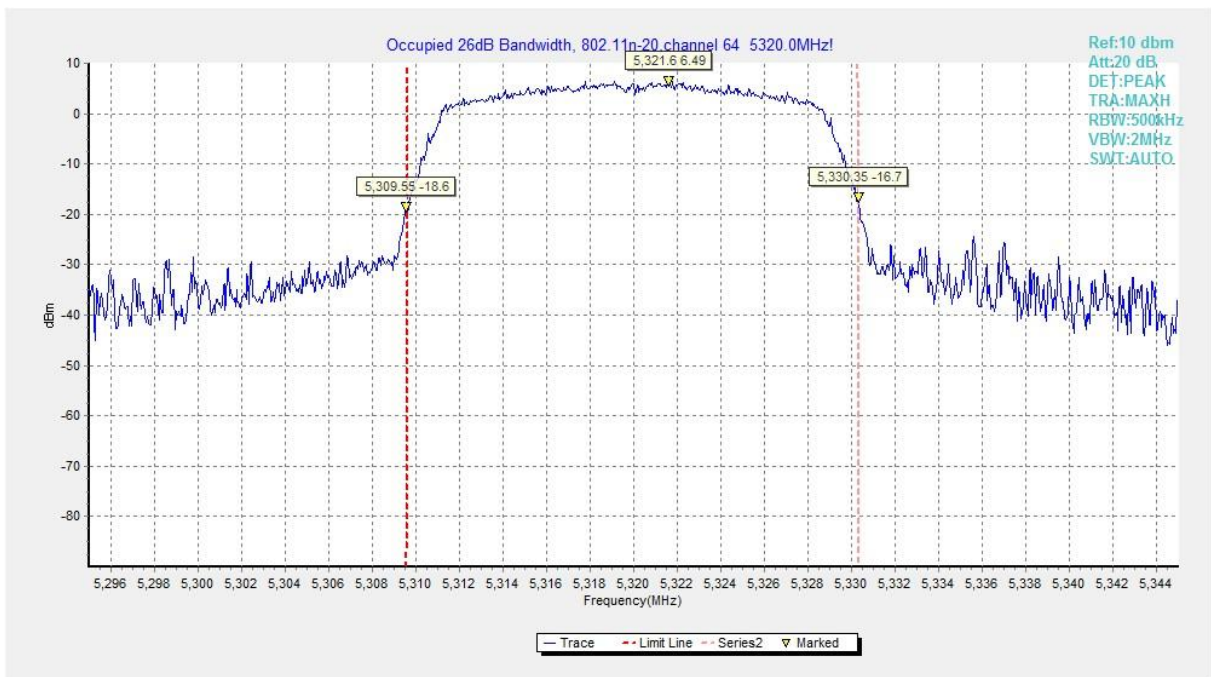
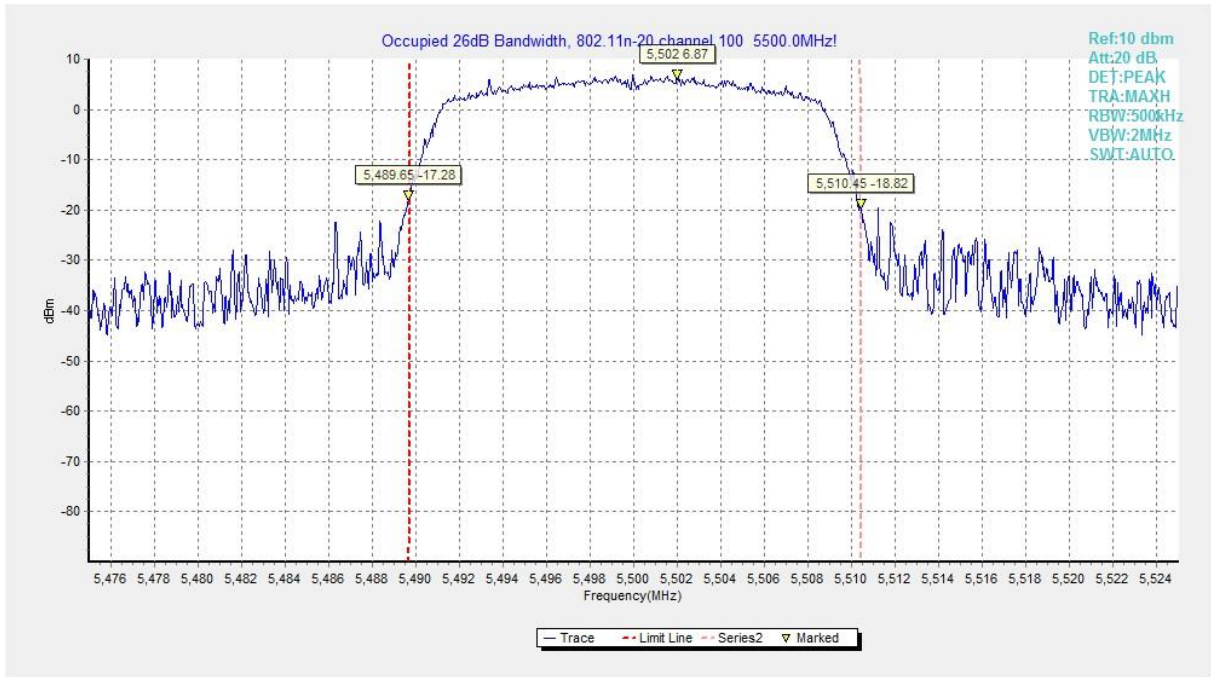
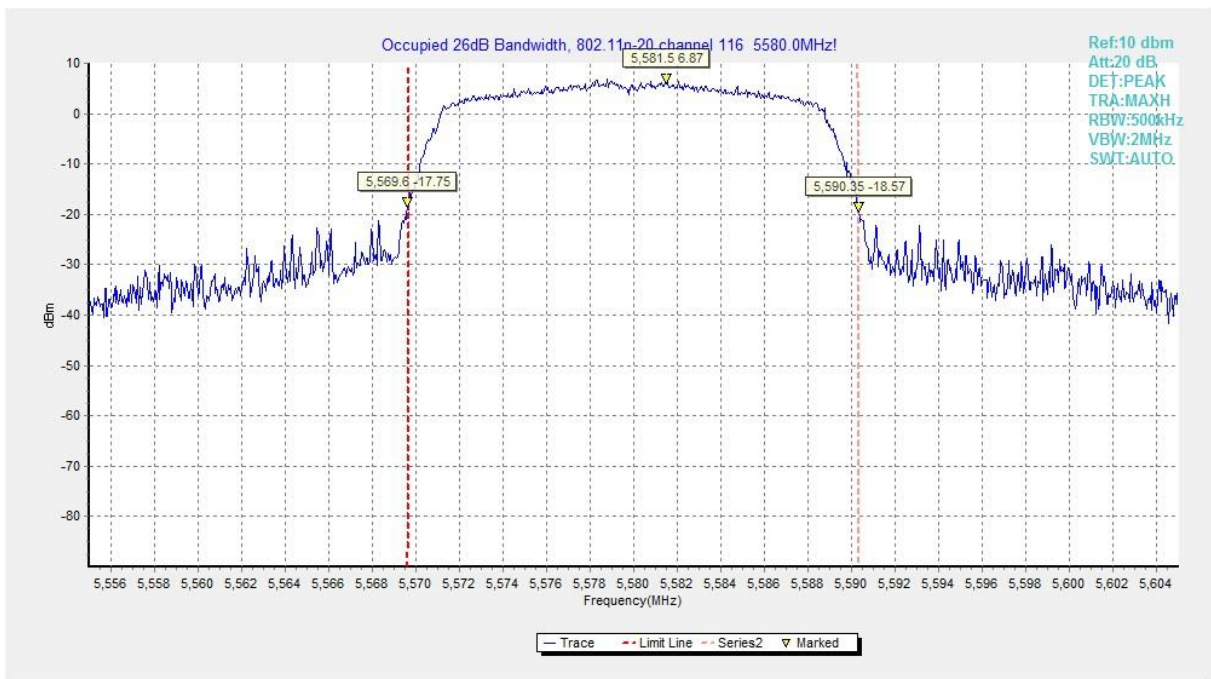


Fig.16 26dB Emission Bandwidth (802.11n-HT20, 5320MHz)



**Fig.17 26dB Emission Bandwidth (802. 11n-HT20, 5500MHz)**



**Fig.18 26dB Emission Bandwidth (802. 11n-HT20, 5580MHz)**

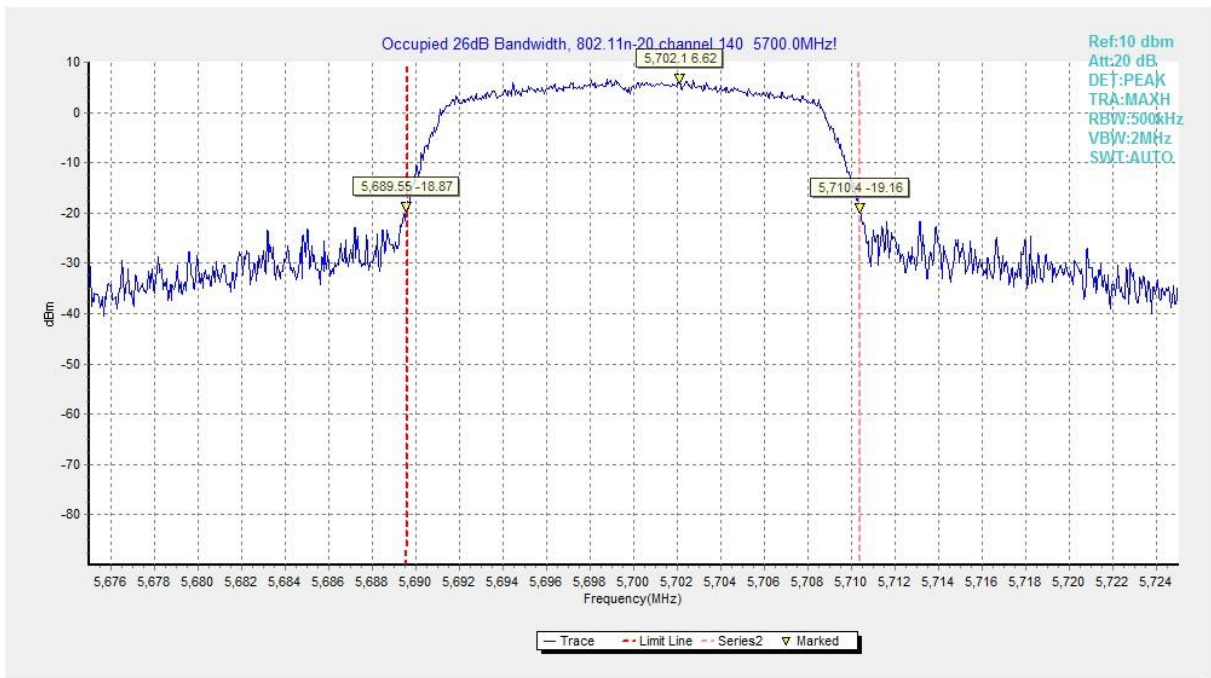


Fig.19 26dB Emission Bandwidth (802. 11n-HT20, 5700MHz)

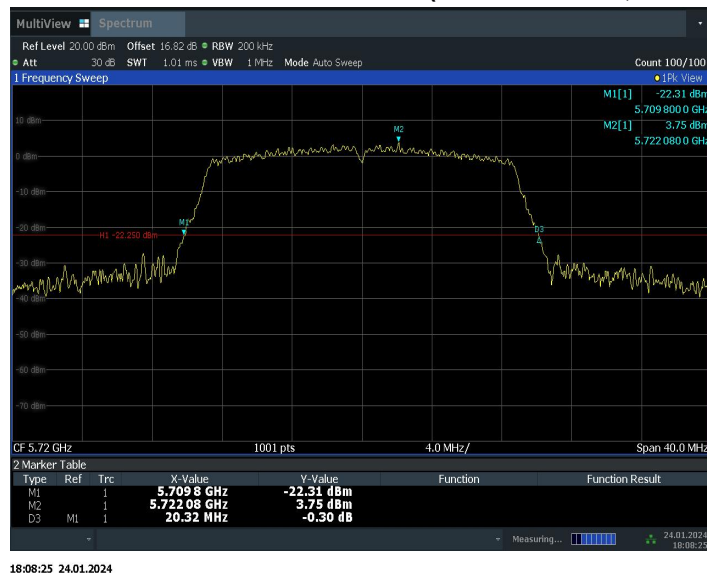
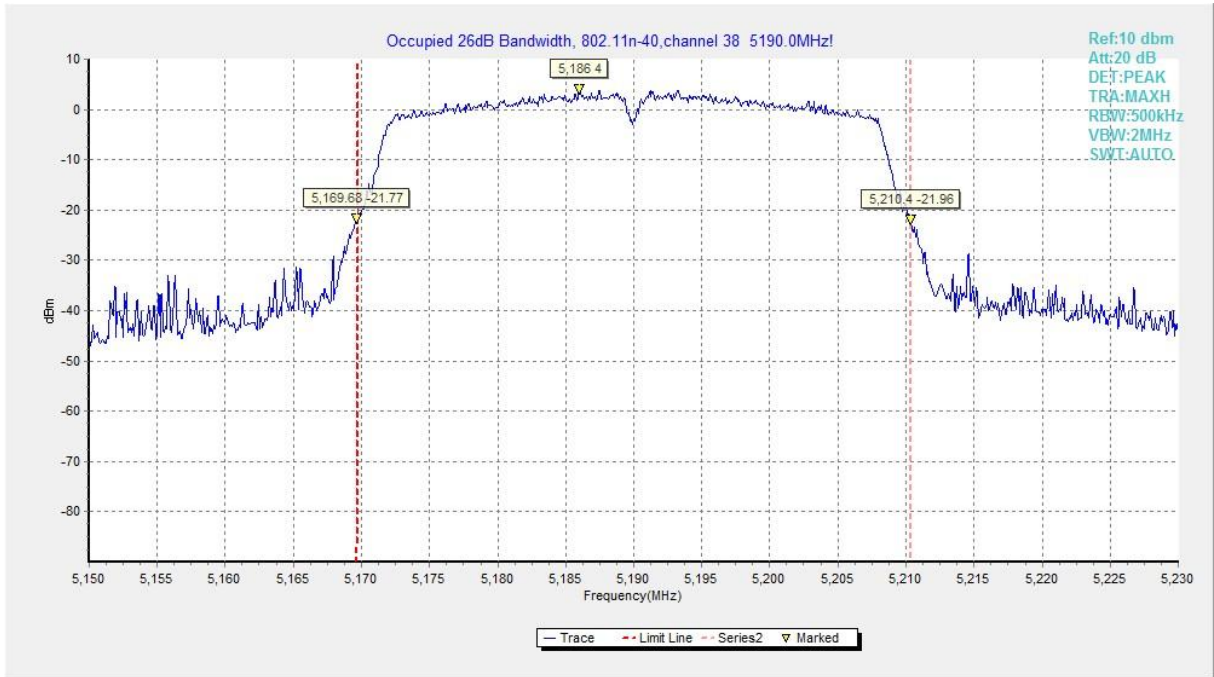
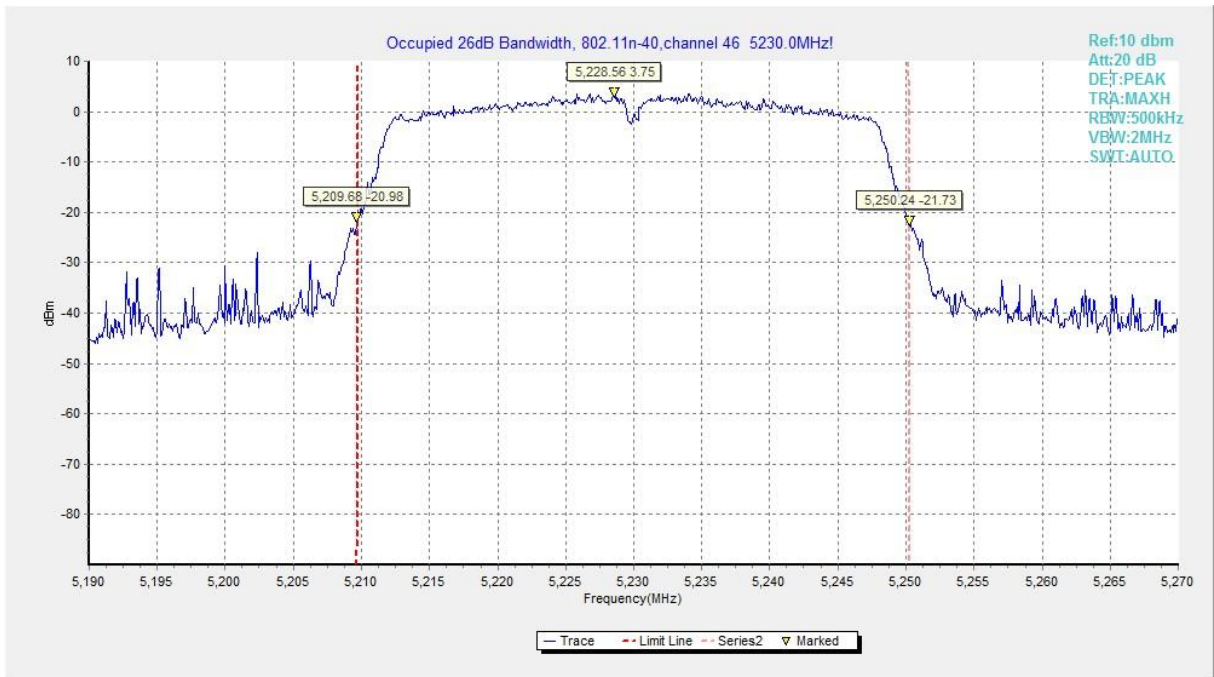


Fig.20 26dB Emission Bandwidth (802. 11n-HT20, 5720MHz)



**Fig.21 26dB Emission Bandwidth (802.11n-HT40, 5190MHz)**



**Fig.22 26dB Emission Bandwidth (802.11n-HT40, 5230MHz)**

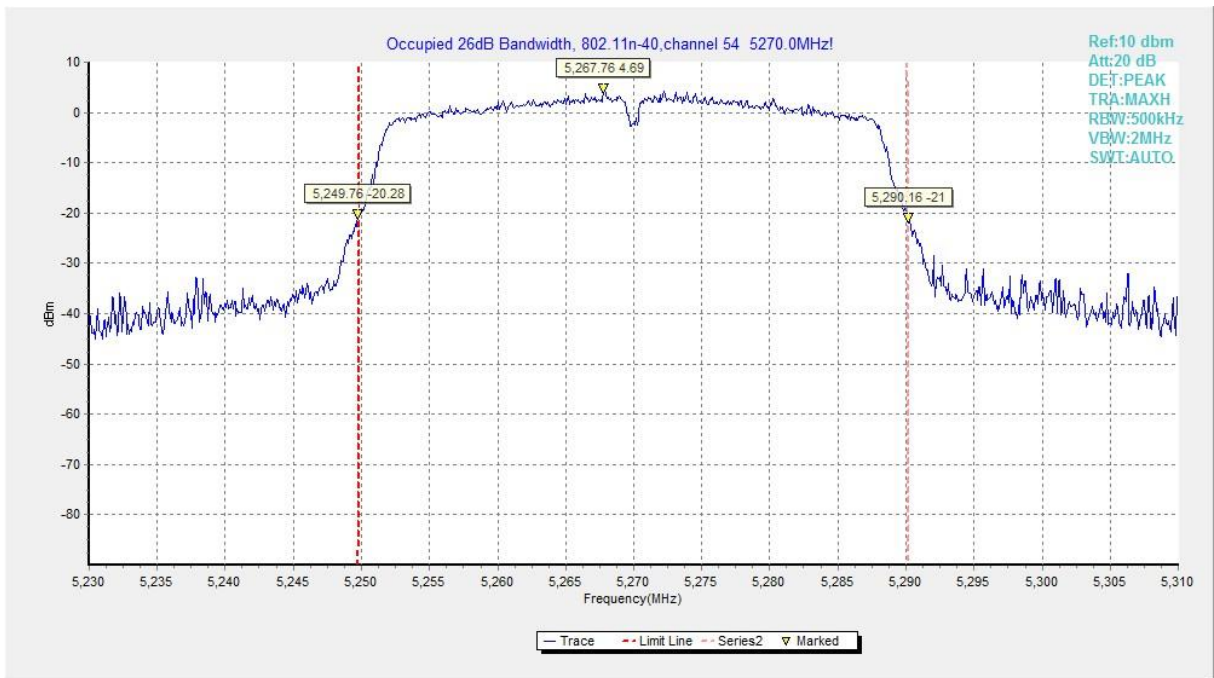


Fig.23 26dB Emission Bandwidth (802.11n-HT40, 5270MHz)

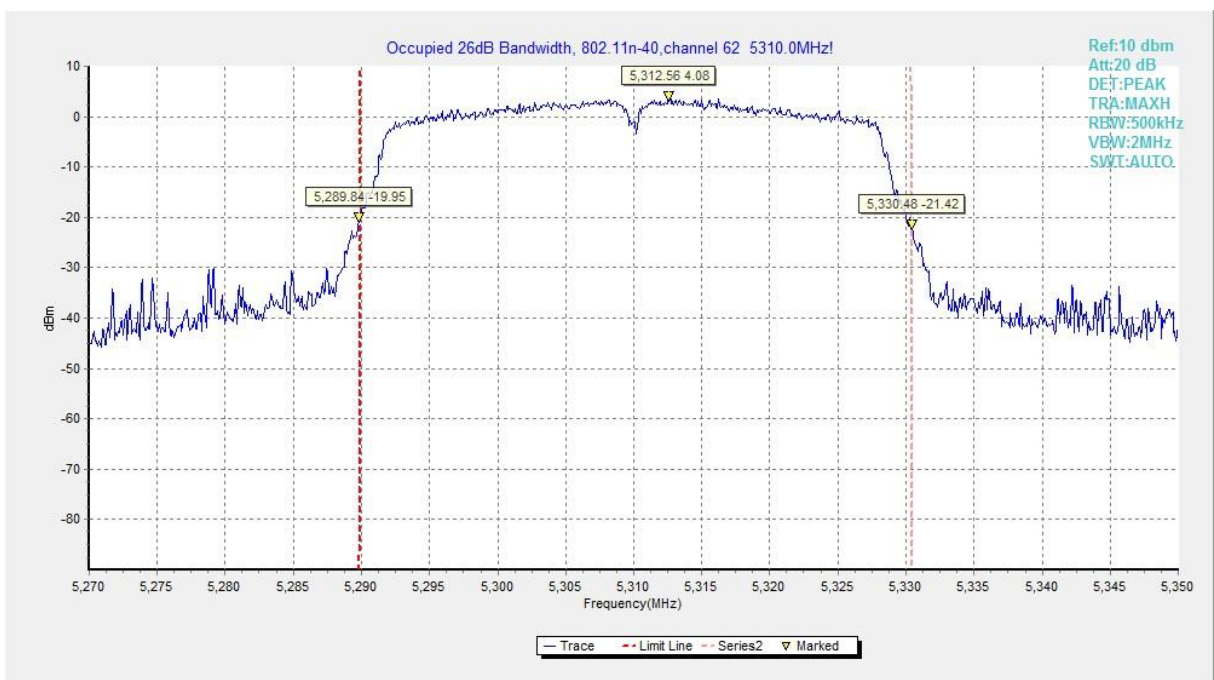


Fig.24 26dB Emission Bandwidth (802.11n-HT40, 5310MHz)



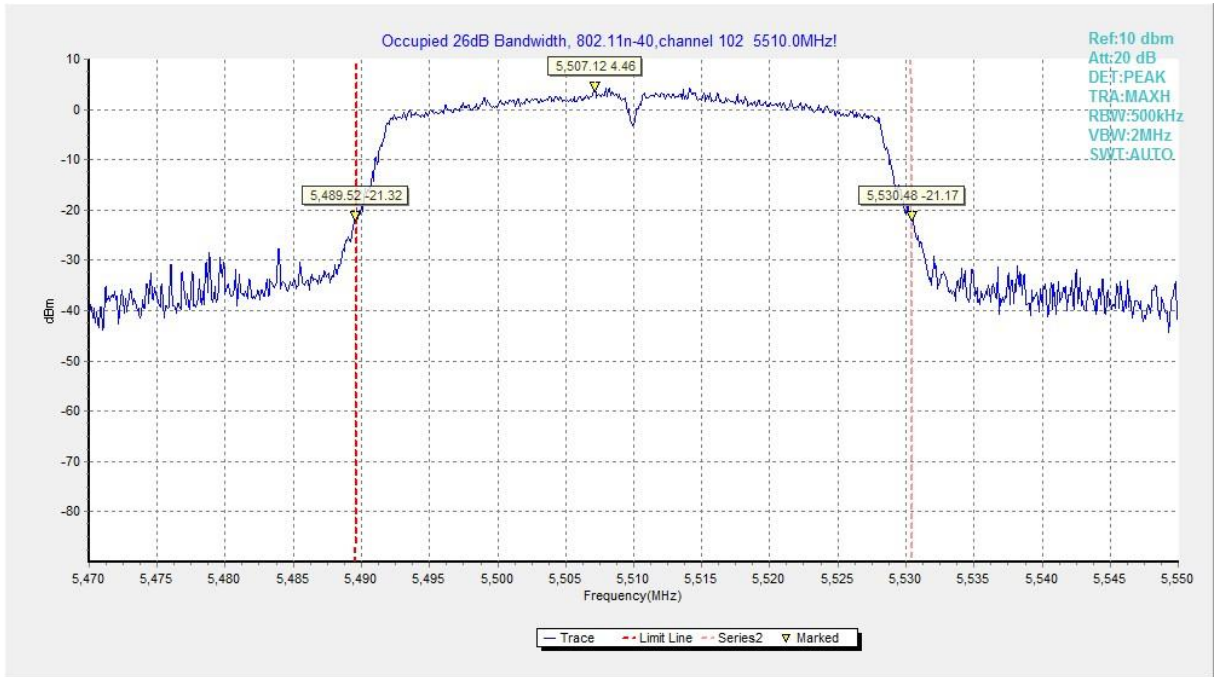


Fig.25 26dB Emission Bandwidth (802. 11n-HT40, 5510MHz)

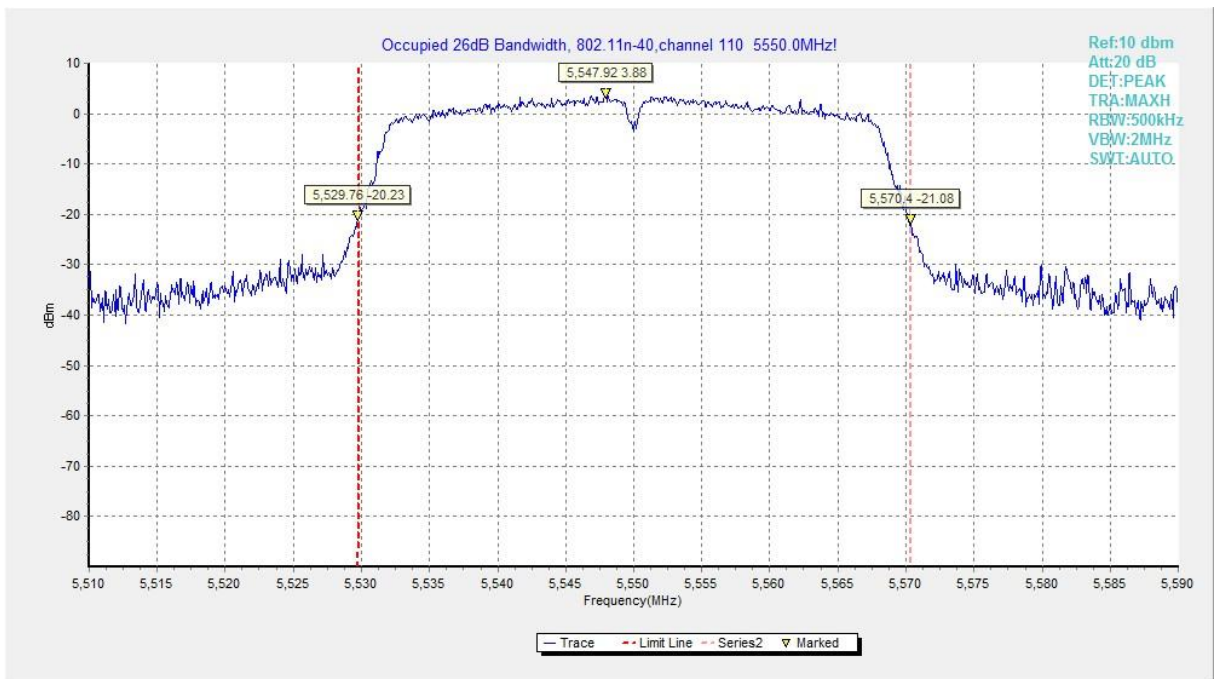


Fig.26 26dB Emission Bandwidth (802. 11n-HT40, 5550MHz)

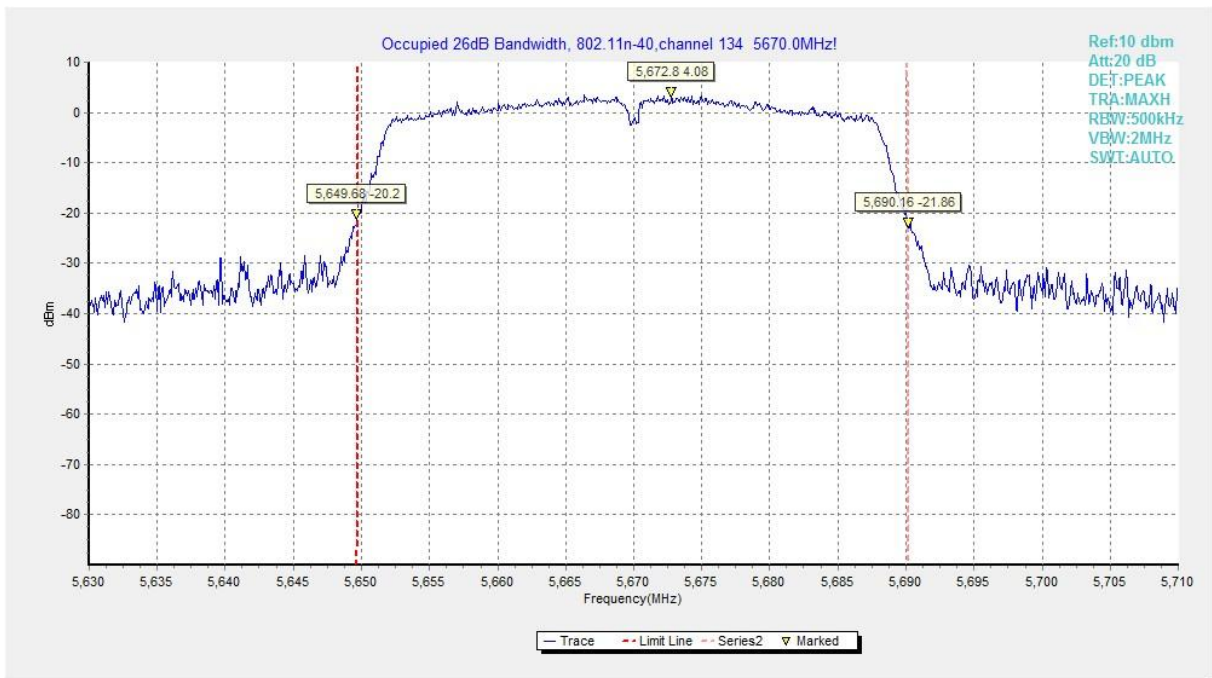


Fig.27 26dB Emission Bandwidth (802. 11n-HT40, 5670MHz)

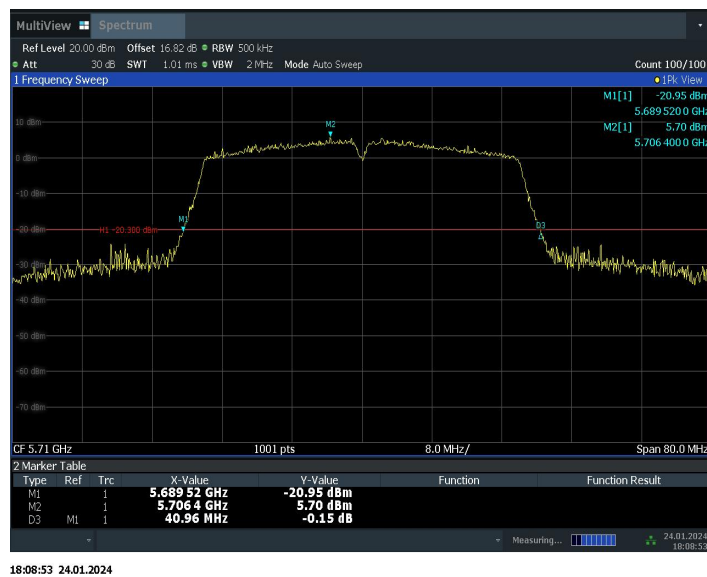
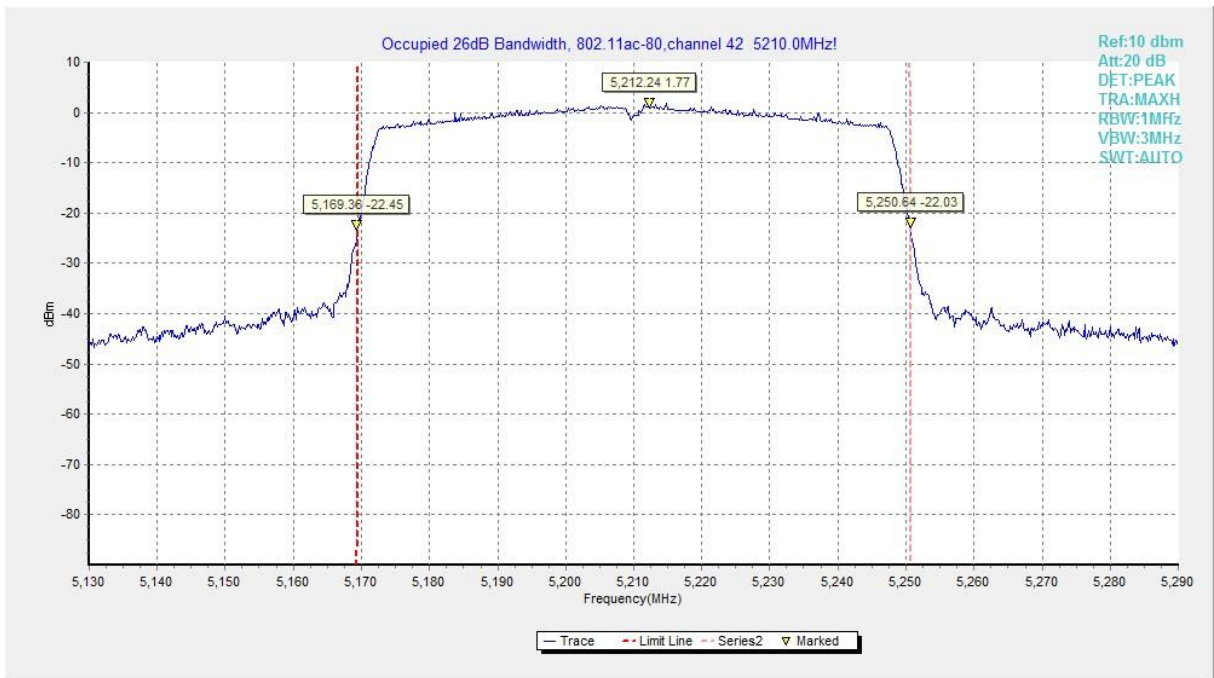


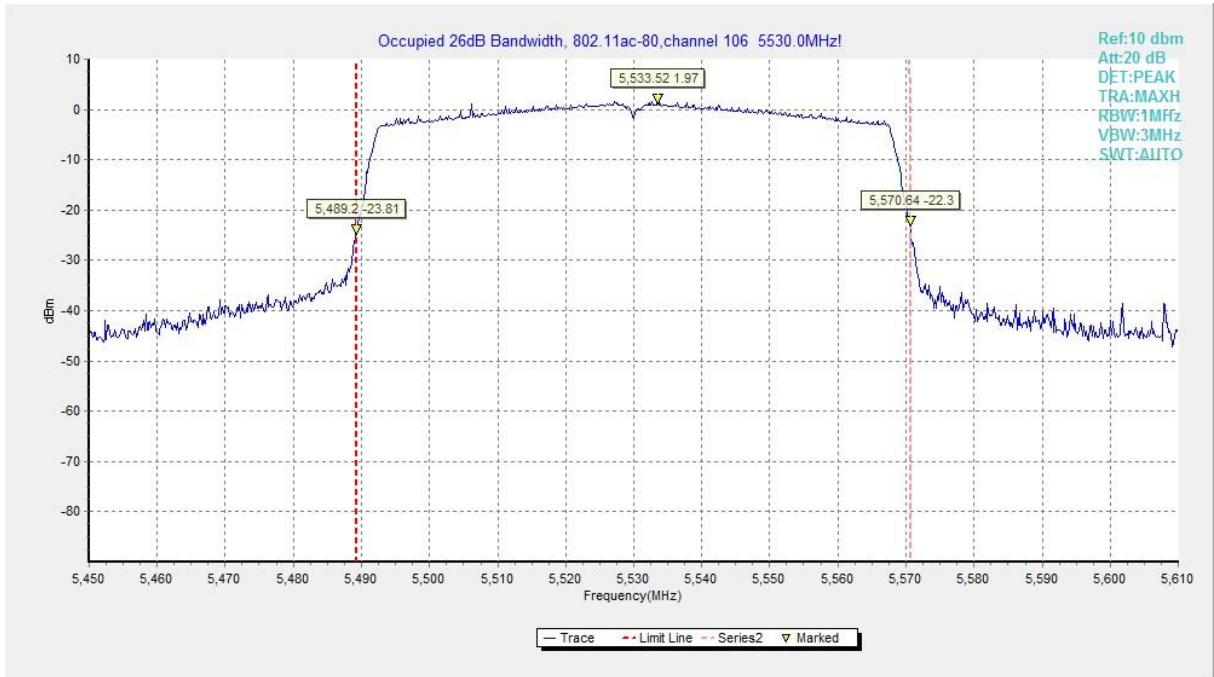
Fig.28 26dB Emission Bandwidth (802. 11n-HT40, 5710MHz)



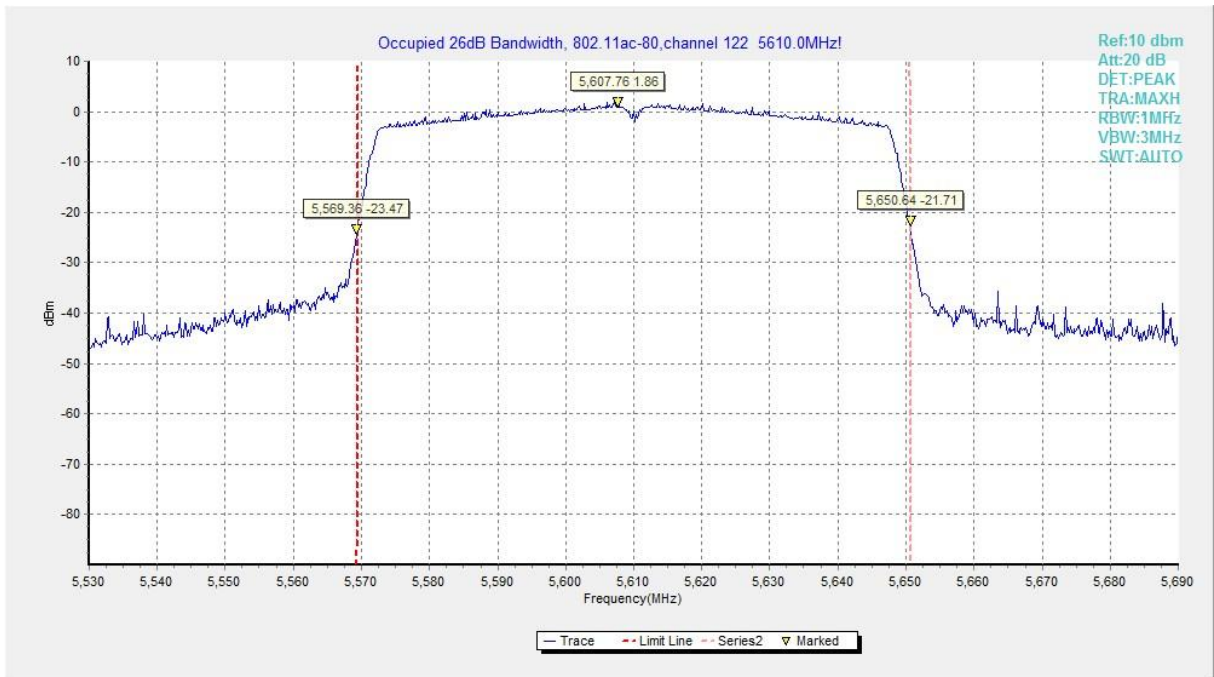
**Fig.29 26dB Emission Bandwidth (802. 11ac-VHT80, 5210MHz)**



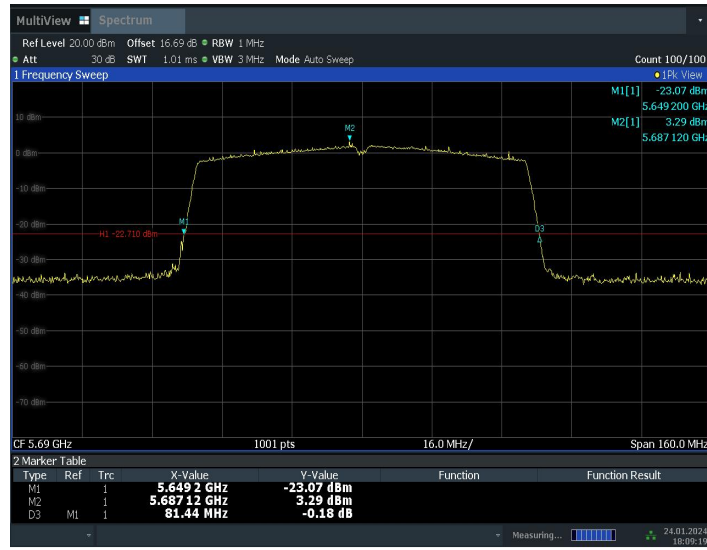
**Fig.30 26dB Emission Bandwidth (802. 11ac-VHT80, 5290MHz)**



**Fig.31 26dB Emission Bandwidth (802. 11ac-VHT80, 5530MHz)**



**Fig.32 26dB Emission Bandwidth (802. 11ac-VHT80, 5610MHz)**



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**Fig.33 26dB Emission Bandwidth (802. 11ac-VHT80, 5690MHz)**

**Conclusion: PASS**

## A.5. Radiated Unwanted Emission

### A.5.1 Limits

Unwanted Emissions in the unrestricted bands shall not exceed the limits that shown in 15.407:

Standard	Limit
FCC 47 CFR Part 15.407	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

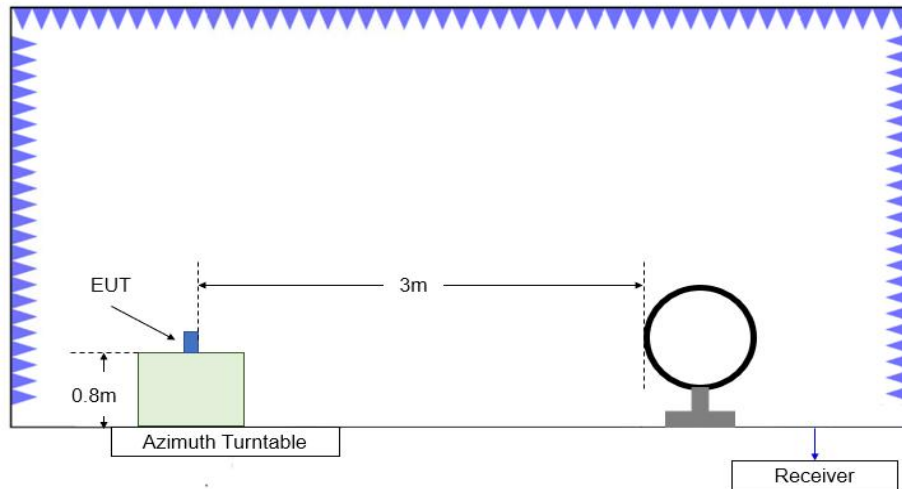
In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

Frequency (MHz)	Field strength( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

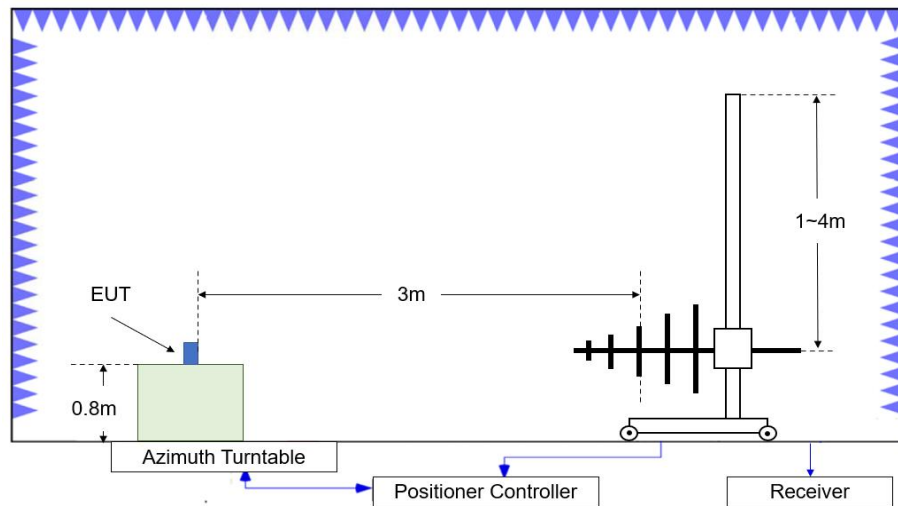
Frequency of emission (MHz)	Field strength ( $\mu$ V/m)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor (as defined in KDB 789033 II.G.2.d).

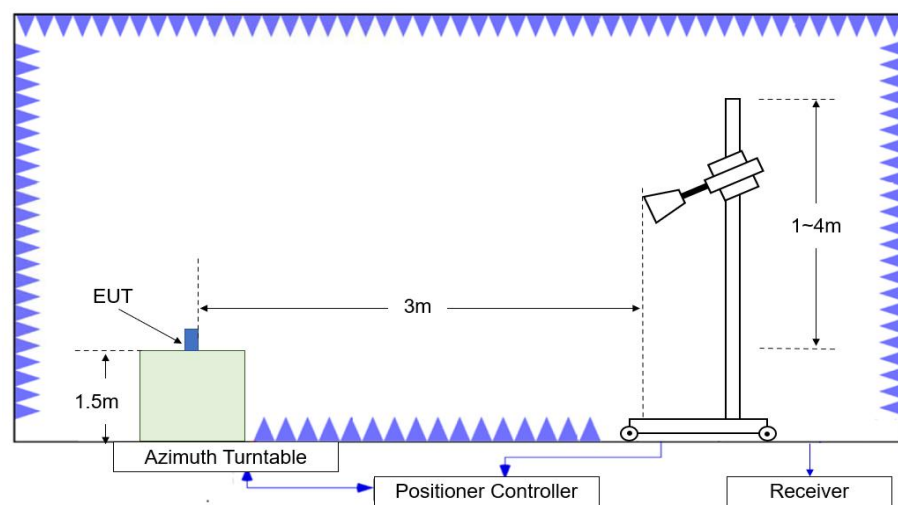
### A.5.2 Test setup



**Figure A.5.2.1 Test Site Diagram (9kHz-30MHz)**



**Figure A.5.2.2 Test Site Diagram (30MHz-1GHz)**



**Figure A.5.2.3 Test Site Diagram (1GHz-40GHz)**

### A.5.3 Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10 and KDB 789033 D02 v02r01.

Test setting

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

### A.5.4 Calculation

1. The measurement results reported below is calculated by:

Measurement Results (dB $\mu$ V/m) = P<sub>measurement</sub> (dB $\mu$ V) + Cable Loss(dB) + Antenna Factor (dB/m)

Where: P<sub>measurement</sub> is the field strength recorded from the instrument

2. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

$E$  is the field strength in dB $\mu$ V/m

$D$  is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dBm

### Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept.
5. EUT in each of three orthogonal axis emissions had been tested out only the worst case (axis data) recorded in the report.
6. Measurement frequencies were performed from 9 kHz to the 10<sup>th</sup> harmonic of highest fundamental frequency or 40GHz, whichever is lower.
7. No spurious emissions were detected within 20dB of the limit below 30MHz. OFS and semi-chamber comparison testing had been performed and the result came out very similar. (KDB 414788)



**Measurement Results:**
**Average Results:**
**802.11a**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17932.900	40.80	-29.59	45.95	24.44	54.00	13.20	H
17945.000	40.80	-29.59	45.95	24.44	54.00	13.20	V
14483.300	35.99	-29.56	41.90	23.65	54.00	18.01	V
13306.300	35.94	-31.40	40.60	26.74	54.00	18.06	H
5146.670	41.92	-27.79	34.00	35.71	54.00	12.08	V
5147.210	41.87	-27.79	34.00	35.66	54.00	12.13	V

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.150	40.12	-29.59	45.95	23.76	54.00	13.88	V
17936.750	40.02	-29.59	45.95	23.66	54.00	13.98	V
14492.650	35.41	-29.56	41.90	23.07	54.00	18.59	V
13319.500	34.68	-31.19	40.65	25.22	54.00	19.32	V
11899.400	33.56	-32.53	39.10	26.99	54.00	20.44	V
11881.250	33.51	-32.53	39.10	26.94	54.00	20.49	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.750	40.12	-29.59	45.95	23.76	54.00	13.88	H
17938.400	39.95	-29.59	45.95	23.59	54.00	14.05	V
14486.050	35.21	-29.56	41.90	22.87	54.00	18.79	V
14481.650	34.88	-29.56	41.90	22.54	54.00	19.12	V
11930.200	33.72	-32.53	39.10	27.15	54.00	20.28	V
11904.350	33.60	-32.53	39.10	27.03	54.00	20.40	V

## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.750	40.95	-29.59	45.95	24.59	54.00	13.05	H
17948.850	40.85	-29.59	45.95	24.49	54.00	13.15	V
13294.200	36.03	-31.40	40.60	26.83	54.00	17.97	V
14478.900	35.96	-29.56	41.90	23.62	54.00	18.04	H
11893.350	34.26	-32.53	39.10	27.69	54.00	19.74	V
11906.000	34.04	-32.53	39.10	27.47	54.00	19.96	V

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.150	40.87	-29.59	45.95	24.51	54.00	13.13	V
17945.550	40.86	-29.59	45.95	24.50	54.00	13.14	V
14472.300	35.93	-29.56	41.90	23.59	54.00	18.07	V
14487.700	35.88	-29.56	41.90	23.54	54.00	18.12	V
11918.100	34.21	-32.53	39.10	27.64	54.00	19.79	H
11904.350	34.10	-32.53	39.10	27.53	54.00	19.90	V

## Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.600	40.96	-29.59	45.95	24.60	54.00	13.04	V
17962.050	40.76	-29.59	45.95	24.40	54.00	13.24	H
14486.600	36.09	-29.56	41.90	23.75	54.00	17.91	V
14473.950	36.01	-29.56	41.90	23.67	54.00	17.99	V
5401.768	41.38	-27.94	34.30	35.02	54.00	12.62	V
5382.200	41.34	-27.82	34.20	34.96	54.00	12.66	V

## Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17948.850	41.73	-29.59	45.95	25.37	54.00	12.27	V
17959.300	41.37	-29.59	45.95	25.01	54.00	12.63	V
13316.200	36.00	-31.40	40.60	26.80	54.00	18.00	V
14471.200	35.96	-29.56	41.90	23.62	54.00	18.04	V
5440.127	41.69	-27.94	34.30	35.33	54.00	12.31	V
5446.435	41.52	-27.49	34.20	34.81	54.00	12.48	H

## Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.700	41.06	-29.59	45.95	24.70	54.00	12.94	V
17950.500	40.91	-29.59	45.95	24.55	54.00	13.09	H
14471.200	36.24	-29.56	41.90	23.90	54.00	17.76	V
14483.850	36.13	-29.56	41.90	23.79	54.00	17.87	V
11400.550	34.47	-32.58	39.00	28.05	54.00	19.53	H
11881.800	34.33	-32.53	39.10	27.76	54.00	19.67	H

## Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.750	41.21	-29.59	45.95	24.85	54.00	12.79	V
17958.200	41.15	-29.59	45.95	24.79	54.00	12.85	H
14497.600	35.99	-29.56	41.90	23.65	54.00	18.01	V
14476.150	35.90	-29.56	41.90	23.56	54.00	18.10	V
11872.450	34.33	-32.73	39.15	27.91	54.00	19.67	V
11521.000	34.27	-32.80	39.10	27.97	54.00	19.73	V

**802.11n-HT20**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.900	40.86	-29.59	45.95	24.50	54.00	13.14	H
17941.700	40.73	-29.59	45.95	24.37	54.00	13.27	H
14479.450	36.61	-29.56	41.90	24.27	54.00	17.39	V
14472.300	36.32	-29.56	41.90	23.98	54.00	17.68	V
5141.700	41.19	-27.79	34.00	34.98	54.00	12.81	V
5123.530	41.02	-27.79	34.00	34.81	54.00	12.98	V

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.600	40.09	-29.59	45.95	23.73	54.00	13.91	H
17953.800	40.05	-29.59	45.95	23.69	54.00	13.95	H
14494.300	35.26	-29.56	41.90	22.92	54.00	18.74	V
14484.400	35.23	-29.56	41.90	22.89	54.00	18.77	V
11408.250	33.41	-32.58	39.00	26.99	54.00	20.59	V
11818.550	33.14	-32.09	39.20	26.03	54.00	20.86	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17949.400	41.04	-29.59	45.95	24.68	54.00	12.96	V
17915.850	40.82	-29.59	45.95	24.46	54.00	13.18	V
14477.800	36.50	-29.56	41.90	24.16	54.00	17.50	V
14474.500	36.33	-29.56	41.90	23.99	54.00	17.67	V
11852.650	34.27	-32.73	39.15	27.85	54.00	19.73	V
11871.900	34.10	-32.73	39.15	27.68	54.00	19.90	V

## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.600	40.90	-29.59	45.95	24.54	54.00	13.10	H
17951.050	40.83	-29.59	45.95	24.47	54.00	13.17	V
14490.450	36.37	-29.56	41.90	24.03	54.00	17.63	V
14475.050	36.12	-29.56	41.90	23.78	54.00	17.88	V
11870.800	34.47	-32.73	39.15	28.05	54.00	19.53	V
11936.800	34.12	-32.42	39.05	27.49	54.00	19.88	V

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.650	41.02	-29.59	45.95	24.66	54.00	12.98	H
17943.900	40.74	-29.59	45.95	24.38	54.00	13.26	V
14470.100	36.08	-29.56	41.90	23.74	54.00	17.92	V
14480.550	35.94	-29.56	41.90	23.60	54.00	18.06	V
11906.000	34.29	-32.53	39.10	27.72	54.00	19.71	V
11901.600	34.02	-32.53	39.10	27.45	54.00	19.98	V

## Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.750	41.14	-29.59	45.95	24.78	54.00	12.86	V
17952.700	40.94	-29.59	45.95	24.58	54.00	13.06	V
14471.200	36.16	-29.56	41.90	23.82	54.00	17.84	V
13295.300	36.15	-31.40	40.60	26.95	54.00	17.85	V
5457.400	41.58	-27.49	34.20	34.87	54.00	12.42	V
5352.256	41.44	-27.82	34.20	35.06	54.00	12.56	V

## Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.300	41.16	-29.59	45.95	24.80	54.00	12.84	V
17958.750	41.11	-29.59	45.95	24.75	54.00	12.89	V
14484.400	36.30	-29.56	41.90	23.96	54.00	17.70	V
14477.250	35.83	-29.56	41.90	23.49	54.00	18.17	V
5440.075	41.44	-27.94	34.30	35.08	54.00	12.56	V
5446.847	41.41	-27.49	34.20	34.70	54.00	12.59	H

## Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.200	41.15	-29.59	45.95	24.79	54.00	12.85	H
17946.650	41.12	-29.59	45.95	24.76	54.00	12.88	V
14478.900	36.07	-29.56	41.90	23.73	54.00	17.93	V
14482.750	36.05	-29.56	41.90	23.71	54.00	17.95	V
11401.650	34.32	-32.58	39.00	27.90	54.00	19.68	V
11397.800	34.15	-32.58	39.00	27.73	54.00	19.85	V

## Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.050	41.03	-29.59	45.95	24.67	54.00	12.97	V
17971.400	40.84	-29.59	45.95	24.48	54.00	13.16	V
14487.700	36.13	-29.56	41.90	23.79	54.00	17.87	V
14484.950	35.98	-29.56	41.90	23.64	54.00	18.02	V
11401.100	34.49	-32.58	39.00	28.07	54.00	19.51	V
11410.450	34.22	-32.58	39.00	27.80	54.00	19.78	V

**802.11n-HT40**

## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.350	40.82	-29.59	45.95	24.46	54.00	13.18	V
17961.500	40.78	-29.59	45.95	24.42	54.00	13.22	V
14493.200	36.08	-29.56	41.90	23.74	54.00	17.92	V
14486.050	36.07	-29.56	41.90	23.73	54.00	17.93	H
5149.780	44.41	-28.00	34.00	38.41	54.00	9.59	H
5148.170	43.81	-27.79	34.00	37.60	54.00	10.19	H

## Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.100	41.04	-29.59	45.95	24.68	54.00	12.96	V
17954.350	41.02	-29.59	45.95	24.66	54.00	12.98	V
14496.500	36.30	-29.56	41.90	23.96	54.00	17.70	V
14480.550	36.28	-29.56	41.90	23.94	54.00	17.72	V
11871.900	34.06	-32.73	39.15	27.64	54.00	19.94	V
11875.750	34.04	-32.73	39.15	27.62	54.00	19.96	V

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17949.950	41.07	-29.59	45.95	24.71	54.00	12.93	V
17953.800	40.92	-29.59	45.95	24.56	54.00	13.08	H
14478.350	36.13	-29.56	41.90	23.79	54.00	17.87	V
14487.150	35.90	-29.56	41.90	23.56	54.00	18.10	V
11924.150	34.29	-32.53	39.10	27.72	54.00	19.71	H
11866.950	34.24	-32.73	39.15	27.82	54.00	19.76	V

## Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.900	41.13	-29.59	45.95	24.77	54.00	12.87	V
17943.900	41.09	-29.59	45.95	24.73	54.00	12.91	V
14473.400	36.31	-29.56	41.90	23.97	54.00	17.69	H
13301.900	36.18	-31.40	40.60	26.98	54.00	17.82	H
5401.416	41.49	-27.94	34.30	35.13	54.00	12.51	H
5405.912	41.30	-27.94	34.30	34.94	54.00	12.70	V

## Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17950.500	40.94	-29.59	45.95	24.58	54.00	13.06	V
17938.950	40.86	-29.59	45.95	24.50	54.00	13.14	V
13305.200	36.17	-31.40	40.60	26.97	54.00	17.83	V
14480.550	36.14	-29.56	41.90	23.80	54.00	17.86	V
5365.682	41.41	-27.82	34.20	35.03	54.00	12.59	V
5432.358	41.39	-27.94	34.30	35.03	54.00	12.61	V

## Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.600	41.13	-29.59	45.95	24.77	54.00	12.87	V
17953.800	40.87	-29.59	45.95	24.51	54.00	13.13	V
14475.600	36.50	-29.56	41.90	24.16	54.00	17.50	V
13308.500	35.84	-31.40	40.60	26.64	54.00	18.16	H
11919.200	34.44	-32.53	39.10	27.87	54.00	19.56	V
11397.250	34.13	-32.58	39.00	27.71	54.00	19.87	V



## Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17955.450	41.05	-29.59	45.95	24.69	54.00	12.95	H
17945.000	40.95	-29.59	45.95	24.59	54.00	13.05	V
14477.800	36.39	-29.56	41.90	24.05	54.00	17.61	V
14477.250	36.18	-29.56	41.90	23.84	54.00	17.82	V
11848.800	34.29	-32.73	39.15	27.87	54.00	19.71	V
11876.300	34.29	-32.73	39.15	27.87	54.00	19.71	V

**802.11ac-VHT20**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.050	40.17	-29.59	45.95	23.81	54.00	13.83	V
17947.200	40.05	-29.59	45.95	23.69	54.00	13.95	V
14489.350	35.24	-29.56	41.90	22.90	54.00	18.76	V
14497.600	34.90	-29.56	41.90	22.56	54.00	19.10	V
5147.930	41.07	-27.79	34.00	34.86	54.00	12.93	V
5149.830	41.04	-28.00	34.00	35.04	54.00	12.96	H

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.200	39.89	-29.59	45.95	23.53	54.00	14.11	V
17957.650	39.86	-29.59	45.95	23.50	54.00	14.14	V
14472.300	35.24	-29.56	41.90	22.90	54.00	18.76	V
13255.150	35.10	-31.62	40.50	26.22	54.00	18.90	V
11329.050	33.52	-32.41	38.70	27.23	54.00	20.48	V
11916.450	33.29	-32.53	39.10	26.72	54.00	20.71	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.900	41.02	-29.59	45.95	24.66	54.00	12.98	V
17951.050	40.69	-29.59	45.95	24.33	54.00	13.31	V
14483.850	35.97	-29.56	41.90	23.63	54.00	18.03	V
14491.550	35.94	-29.56	41.90	23.60	54.00	18.06	V
11910.950	34.28	-32.53	39.10	27.71	54.00	19.72	V
11850.450	33.95	-32.73	39.15	27.53	54.00	20.05	V

## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.350	41.03	-29.59	45.95	24.67	54.00	12.97	V
17959.850	40.84	-29.59	45.95	24.48	54.00	13.16	V
14471.750	36.03	-29.56	41.90	23.69	54.00	17.97	V
14497.600	35.86	-29.56	41.90	23.52	54.00	18.14	V
11890.050	34.45	-32.53	39.10	27.88	54.00	19.55	V
11919.200	34.23	-32.53	39.10	27.66	54.00	19.77	V

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.800	41.07	-29.59	45.95	24.71	54.00	12.93	V
17959.300	41.03	-29.59	45.95	24.67	54.00	12.97	H
14486.600	36.06	-29.56	41.90	23.72	54.00	17.94	V
14487.700	36.04	-29.56	41.90	23.70	54.00	17.96	V
11907.100	34.24	-32.53	39.10	27.67	54.00	19.76	V
11835.050	34.06	-32.73	39.15	27.64	54.00	19.94	V

## Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17929.050	41.00	-29.59	45.95	24.64	54.00	13.00	V
17959.300	40.88	-29.59	45.95	24.52	54.00	13.12	H
14499.800	35.96	-29.56	41.90	23.62	54.00	18.04	V
14478.900	35.86	-29.56	41.90	23.52	54.00	18.14	V
5380.248	41.68	-27.82	34.20	35.30	54.00	12.32	H
5396.784	41.66	-27.94	34.30	35.30	54.00	12.34	V

## Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.250	41.18	-29.59	45.95	24.82	54.00	12.82	V
17948.300	40.94	-29.59	45.95	24.58	54.00	13.06	V
14498.700	36.53	-29.56	41.90	24.19	54.00	17.47	V
14480.000	36.25	-29.56	41.90	23.91	54.00	17.75	V
5383.052	41.80	-27.82	34.20	35.42	54.00	12.20	H
5434.885	41.52	-27.94	34.30	35.16	54.00	12.48	V

## Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17931.800	41.03	-29.59	45.95	24.67	54.00	12.97	V
17935.650	40.88	-29.59	45.95	24.52	54.00	13.12	V
14478.350	36.09	-29.56	41.90	23.75	54.00	17.91	H
13325.000	35.89	-31.19	40.65	26.43	54.00	18.11	V
11892.800	34.12	-32.53	39.10	27.55	54.00	19.88	H
11885.650	34.02	-32.53	39.10	27.45	54.00	19.98	V

## Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.350	41.19	-29.59	45.95	24.83	54.00	12.81	V
17951.050	41.14	-29.59	45.95	24.78	54.00	12.86	V
14472.850	36.23	-29.56	41.90	23.89	54.00	17.77	V
14475.600	35.96	-29.56	41.90	23.62	54.00	18.04	V
11929.100	34.33	-32.53	39.10	27.76	54.00	19.67	V
11886.750	34.26	-32.53	39.10	27.69	54.00	19.74	V

**802.11ac-VHT40**

## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17948.300	41.02	-29.59	45.95	24.66	54.00	12.98	V
17942.250	40.83	-29.59	45.95	24.47	54.00	13.17	V
14470.650	35.86	-29.56	41.90	23.52	54.00	18.14	V
14471.200	35.83	-29.56	41.90	23.49	54.00	18.17	V
5146.040	41.20	-27.79	34.00	34.99	54.00	12.80	V
5149.230	41.19	-28.00	34.00	35.19	54.00	12.81	V

## Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17969.750	40.96	-29.59	45.95	24.60	54.00	13.04	V
17934.000	40.94	-29.59	45.95	24.58	54.00	13.06	H
14477.800	36.33	-29.56	41.90	23.99	54.00	17.67	V
14470.650	36.18	-29.56	41.90	23.84	54.00	17.82	V
11887.300	34.16	-32.53	39.10	27.59	54.00	19.84	V
11907.650	34.00	-32.53	39.10	27.43	54.00	20.00	H

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17945.000	41.06	-29.59	45.95	24.70	54.00	12.94	V
17937.850	40.98	-29.59	45.95	24.62	54.00	13.02	V
14479.450	35.98	-29.56	41.90	23.64	54.00	18.02	V
14471.200	35.86	-29.56	41.90	23.52	54.00	18.14	H
11862.550	34.18	-32.73	39.15	27.76	54.00	19.82	V
11888.950	34.17	-32.53	39.10	27.60	54.00	19.83	V

## Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.900	41.13	-29.59	45.95	24.77	54.00	12.87	V
17957.100	40.85	-29.59	45.95	24.49	54.00	13.15	V
14481.100	35.95	-29.56	41.90	23.61	54.00	18.05	H
14478.350	35.94	-29.56	41.90	23.60	54.00	18.06	V
5397.344	41.35	-27.94	34.30	34.99	54.00	12.65	H
5397.424	41.19	-27.94	34.30	34.83	54.00	12.81	H

## Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.800	41.13	-29.59	45.95	24.77	54.00	12.87	V
17947.200	40.99	-29.59	45.95	24.63	54.00	13.01	H
14491.550	36.14	-29.56	41.90	23.80	54.00	17.86	V
14484.400	35.97	-29.56	41.90	23.63	54.00	18.03	V
5412.580	41.40	-27.94	34.30	35.04	54.00	12.60	V
5445.663	41.31	-27.49	34.20	34.60	54.00	12.69	V

## Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17937.300	41.06	-29.59	45.95	24.70	54.00	12.94	V
17951.600	40.99	-29.59	45.95	24.63	54.00	13.01	H
14470.650	36.17	-29.56	41.90	23.83	54.00	17.83	V
14473.400	35.95	-29.56	41.90	23.61	54.00	18.05	V
11399.450	34.00	-32.58	39.00	27.58	54.00	20.00	V
11871.900	34.00	-32.73	39.15	27.58	54.00	20.00	H

## Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17956.550	41.41	-29.59	45.95	25.05	54.00	12.59	V
17959.850	41.01	-29.59	45.95	24.65	54.00	12.99	V
14473.400	36.26	-29.56	41.90	23.92	54.00	17.74	V
14492.650	35.95	-29.56	41.90	23.61	54.00	18.05	V
11904.900	34.30	-32.53	39.10	27.73	54.00	19.70	V
11836.150	34.08	-32.73	39.15	27.66	54.00	19.92	V

**802.11ac-VHT80**

## Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.800	41.23	-29.59	45.95	24.87	54.00	12.77	V
17937.850	41.16	-29.59	45.95	24.80	54.00	12.84	V
14472.850	36.45	-29.56	41.90	24.11	54.00	17.55	H
14477.800	36.09	-29.56	41.90	23.75	54.00	17.91	V
5148.390	41.24	-27.79	34.00	35.03	54.00	12.76	V
5137.500	41.08	-27.79	34.00	34.87	54.00	12.92	V

## Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17956.000	41.26	-29.59	45.95	24.90	54.00	12.74	V
17962.050	41.07	-29.59	45.95	24.71	54.00	12.93	V
14483.850	36.47	-29.56	41.90	24.13	54.00	17.53	V
14483.300	36.22	-29.56	41.90	23.88	54.00	17.78	V
5452.512	41.50	-27.49	34.20	34.79	54.00	12.50	V
5397.024	41.20	-27.94	34.30	34.84	54.00	12.80	V

## Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.350	41.11	-29.59	45.95	24.75	54.00	12.89	H
17930.700	41.10	-29.59	45.95	24.74	54.00	12.90	H
14488.800	36.10	-29.56	41.90	23.76	54.00	17.90	V
14470.100	35.92	-29.56	41.90	23.58	54.00	18.08	V
5382.917	41.37	-27.82	34.20	34.99	54.00	12.63	V
5405.575	41.34	-27.94	34.30	34.98	54.00	12.66	V

## Channel 122

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17944.450	41.11	-29.59	45.95	24.75	54.00	12.89	V
17955.450	41.05	-29.59	45.95	24.69	54.00	12.95	V
14493.200	36.36	-29.56	41.90	24.02	54.00	17.64	V
13293.650	36.07	-31.40	40.60	26.87	54.00	17.93	V
11905.450	34.30	-32.53	39.10	27.73	54.00	19.70	V
11909.850	34.23	-32.53	39.10	27.66	54.00	19.77	V

**PEAK Results:**
**802.11a**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.900	51.54	-29.59	45.95	35.18	74.00	22.46	V
17924.100	51.48	-29.59	45.95	35.12	74.00	22.52	V
14589.450	48.30	-29.14	41.90	35.54	68.20	19.90	V
14091.150	48.05	-30.20	41.70	36.55	68.20	20.15	V
5148.260	54.28	-27.79	34.00	48.07	74.00	19.72	V
5147.630	54.18	-27.79	34.00	47.97	74.00	19.82	V

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.700	50.03	-29.59	45.95	33.67	74.00	23.97	V
17936.200	49.88	-29.59	45.95	33.52	74.00	24.12	V
14110.950	46.16	-30.93	41.70	35.38	68.20	22.04	V
14564.700	46.11	-29.14	41.90	33.35	68.20	22.09	V
11290.550	43.68	-32.41	38.70	37.39	74.00	30.32	V
11395.050	43.54	-32.58	39.00	37.12	74.00	30.46	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17930.700	50.55	-29.59	45.95	34.19	74.00	23.45	V
17942.800	49.58	-29.59	45.95	33.22	74.00	24.42	V
13622.000	46.00	-31.29	40.90	36.39	68.20	22.20	V
14195.100	45.84	-30.42	41.70	34.56	68.20	22.36	H
11403.300	43.47	-32.58	39.00	37.05	74.00	30.53	V
11921.950	43.40	-32.53	39.10	36.83	74.00	30.60	V



## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.050	51.70	-29.59	45.95	35.34	74.00	22.30	V
17953.800	50.74	-29.59	45.95	34.38	74.00	23.26	H
14038.350	47.93	-31.31	41.60	37.64	68.20	20.27	V
14693.400	47.70	-30.04	41.50	36.24	68.20	20.50	H
11856.500	44.80	-32.73	39.15	38.38	74.00	29.20	V
11404.400	44.67	-32.58	39.00	38.25	74.00	29.33	H

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17881.200	51.86	-29.59	45.95	35.50	74.00	22.14	V
17947.200	51.55	-29.59	45.95	35.19	74.00	22.45	H
14669.200	47.85	-30.04	41.50	36.39	68.20	20.35	V
13980.050	47.21	-30.64	41.50	36.35	68.20	20.99	V
11878.500	45.82	-32.73	39.15	39.40	74.00	28.18	V
11318.600	45.45	-32.41	38.70	39.16	74.00	28.55	H

## Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.050	51.85	-29.59	45.95	35.49	74.00	22.15	V
17918.050	51.44	-29.59	45.95	35.08	74.00	22.56	H
14697.800	47.99	-30.04	41.50	36.53	68.20	20.21	H
14689.000	47.50	-30.04	41.50	36.04	68.20	20.70	V
5449.272	50.97	-27.49	34.20	44.26	74.00	23.03	H
5368.520	50.71	-27.82	34.20	44.33	74.00	23.29	V

## Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.200	51.59	-29.59	45.95	35.23	74.00	22.41	H
17945.550	51.18	-29.59	45.95	34.82	74.00	22.82	V
14704.950	48.06	-30.13	41.35	36.84	68.20	20.14	H
14098.850	48.05	-30.20	41.70	36.55	68.20	20.15	V
5394.700	51.10	-27.82	34.20	44.72	74.00	22.90	H
5468.005	53.85	-27.49	34.20	47.14	68.20	14.35	H

## Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17945.550	51.70	-29.59	45.95	35.34	74.00	22.30	V
17921.350	51.38	-29.59	45.95	35.02	74.00	22.62	V
14686.250	48.29	-30.04	41.50	36.83	68.20	19.91	V
14673.600	47.83	-30.04	41.50	36.37	68.20	20.37	V
11875.200	46.43	-32.73	39.15	40.01	74.00	27.57	V
11868.050	45.42	-32.73	39.15	39.00	74.00	28.58	V

## Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.950	51.85	-29.59	45.95	35.49	74.00	22.15	H
17995.600	51.69	-29.59	45.95	35.33	74.00	22.31	H
14852.900	48.17	-29.99	40.90	37.26	68.20	20.03	V
14581.750	47.97	-29.14	41.90	35.21	68.20	20.23	V
5728.155	57.30	-27.47	34.10	50.67	68.20	10.90	H
5725.084	56.62	-27.47	34.10	49.99	68.20	11.58	H

**802.11n-HT20**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17950.500	52.27	-29.59	45.95	35.91	74.00	21.73	V
17949.950	52.02	-29.59	45.95	35.66	74.00	21.98	V
13944.850	48.12	-30.81	41.40	37.53	68.20	20.08	V
14696.700	48.00	-30.04	41.50	36.54	68.20	20.20	V
5142.980	50.74	-27.79	34.00	44.53	74.00	23.26	H
5141.150	50.62	-27.79	34.00	44.41	74.00	23.38	H

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17898.800	49.51	-29.59	45.95	33.15	74.00	24.49	V
17995.600	49.44	-29.59	45.95	33.08	74.00	24.56	V
14828.700	46.77	-30.04	41.05	35.76	68.20	21.43	H
13968.500	46.49	-30.64	41.50	35.63	68.20	21.71	H
11815.800	43.87	-32.09	39.20	36.76	74.00	30.13	V
11871.900	43.59	-32.73	39.15	37.17	74.00	30.41	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.500	51.39	-29.59	45.95	35.03	74.00	22.61	V
17946.100	51.32	-29.59	45.95	34.96	74.00	22.68	H
14698.350	47.51	-30.04	41.50	36.05	68.20	20.69	V
14680.750	47.46	-30.04	41.50	36.00	68.20	20.74	H
10756.500	44.75	-32.42	38.45	38.72	74.00	29.25	V
11896.650	44.58	-32.53	39.10	38.01	74.00	29.42	V

## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17955.450	52.70	-29.59	45.95	36.34	74.00	21.30	V
17952.150	52.17	-29.59	45.95	35.81	74.00	21.83	V
14745.650	47.66	-30.13	41.35	36.44	68.20	20.54	V
14695.050	47.50	-30.04	41.50	36.04	68.20	20.70	V
11408.250	45.75	-32.58	39.00	39.33	74.00	28.25	V
11881.250	44.76	-32.53	39.10	38.19	74.00	29.24	V

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.100	51.69	-29.59	45.95	35.33	74.00	22.31	H
17965.350	51.20	-29.59	45.95	34.84	74.00	22.80	H
14697.800	47.64	-30.04	41.50	36.18	68.20	20.56	V
14685.150	47.58	-30.04	41.50	36.12	68.20	20.62	H
11861.450	45.11	-32.73	39.15	38.69	74.00	28.89	V
11620.000	44.82	-32.72	39.20	38.34	74.00	29.18	V

## Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17916.400	51.08	-29.59	45.95	34.72	74.00	22.92	H
17932.350	51.08	-29.59	45.95	34.72	74.00	22.92	H
14686.800	48.03	-30.04	41.50	36.57	68.20	20.17	H
14348.550	48.01	-30.44	41.85	36.60	68.20	20.19	H
5441.008	50.80	-27.94	34.30	44.44	74.00	23.20	V
5385.896	50.67	-27.82	34.20	44.29	74.00	23.33	V

## Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.750	51.58	-29.59	45.95	35.22	74.00	22.42	V
17954.350	51.30	-29.59	45.95	34.94	74.00	22.70	V
14594.400	47.84	-29.14	41.90	35.08	68.20	20.36	H
14697.800	47.65	-30.04	41.50	36.19	68.20	20.55	V
5440.330	51.40	-27.94	34.30	45.04	74.00	22.60	V
5469.783	51.52	-27.49	34.20	44.81	68.20	16.68	V

## Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.800	52.49	-29.59	45.95	36.13	74.00	21.51	V
17882.850	51.31	-29.59	45.95	34.95	74.00	22.69	H
14689.000	48.01	-30.04	41.50	36.55	68.20	20.19	H
14698.350	47.69	-30.04	41.50	36.23	68.20	20.51	V
11066.150	45.12	-32.60	38.60	39.12	74.00	28.88	V
11317.500	45.08	-32.41	38.70	38.79	74.00	28.92	V

## Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.250	51.79	-29.59	45.95	35.43	74.00	22.21	H
17954.350	51.26	-29.59	45.95	34.90	74.00	22.74	V
14076.300	48.09	-30.20	41.70	36.59	68.20	20.11	V
14704.950	47.64	-30.13	41.35	36.42	68.20	20.56	V
5726.913	56.20	-27.47	34.10	49.57	68.20	12.00	H
5725.163	55.96	-27.47	34.10	49.33	68.20	12.24	H

**802.11n-HT40**

## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17885.050	51.64	-29.59	45.95	35.28	74.00	22.36	V
17960.950	51.56	-29.59	45.95	35.20	74.00	22.44	V
14707.700	47.66	-30.13	41.35	36.44	68.20	20.54	V
14702.750	47.65	-30.04	41.50	36.19	68.20	20.55	H
5149.780	60.31	-28.00	34.00	54.31	74.00	13.69	H
5149.230	59.03	-28.00	34.00	53.03	74.00	14.97	H

## Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.250	51.72	-29.59	45.95	35.36	74.00	22.28	H
17931.250	51.19	-29.59	45.95	34.83	74.00	22.81	V
13923.400	48.88	-30.81	41.40	38.29	68.20	19.32	V
14692.300	47.73	-30.04	41.50	36.27	68.20	20.47	H
11876.850	44.90	-32.73	39.15	38.48	74.00	29.10	V
8992.650	44.87	-34.57	37.70	41.74	68.20	23.33	V

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.050	51.71	-29.59	45.95	35.35	74.00	22.29	H
17946.100	51.33	-29.59	45.95	34.97	74.00	22.67	H
14587.250	48.03	-29.14	41.90	35.27	68.20	20.17	V
14721.450	47.83	-30.13	41.35	36.61	68.20	20.37	V
11890.050	45.59	-32.53	39.10	39.02	74.00	28.41	V
11843.850	45.42	-32.73	39.15	39.00	74.00	28.58	H

## Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.250	51.52	-29.59	45.95	35.16	74.00	22.48	V
17880.100	51.22	-29.59	45.95	34.86	74.00	22.78	H
14598.250	47.46	-29.14	41.90	34.70	68.20	20.74	V
14064.200	47.34	-30.20	41.70	35.84	68.20	20.86	H
5405.848	51.57	-27.94	34.30	45.21	74.00	22.43	V
5350.608	51.12	-27.82	34.20	44.74	74.00	22.88	H

## Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.150	52.26	-29.59	45.95	35.90	74.00	21.74	H
17958.750	51.78	-29.59	45.95	35.42	74.00	22.22	V
14677.450	49.11	-30.04	41.50	37.65	68.20	19.09	V
14675.800	48.12	-30.04	41.50	36.66	68.20	20.08	V
5378.845	51.14	-27.82	34.20	44.76	74.00	22.86	H
5469.557	54.33	-27.49	34.20	47.62	68.20	13.87	H

## Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17944.450	51.47	-29.59	45.95	35.11	74.00	22.53	H
17945.000	51.25	-29.59	45.95	34.89	74.00	22.75	V
14569.100	48.16	-29.14	41.90	35.40	68.20	20.04	V
14568.550	47.93	-29.14	41.90	35.17	68.20	20.27	V
11400.000	45.26	-32.58	39.00	38.84	74.00	28.74	V
11525.950	45.15	-32.80	39.10	38.85	74.00	28.85	V

## Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.250	51.91	-29.59	45.95	35.55	74.00	22.09	V
17935.650	51.79	-29.59	45.95	35.43	74.00	22.21	V
13920.650	48.49	-30.81	41.40	37.90	68.20	19.71	H
14462.950	47.88	-29.56	41.90	35.54	68.20	20.32	H
5732.714	53.04	-27.47	34.10	46.41	68.20	15.16	V
5725.154	53.00	-27.47	34.10	46.37	68.20	15.20	V

**802.11ac-VHT20**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17864.150	50.63	-29.59	45.95	34.27	74.00	23.37	H
17951.600	50.37	-29.59	45.95	34.01	74.00	23.63	V
14713.750	46.67	-30.13	41.35	35.45	68.20	21.53	V
13991.050	46.07	-30.64	41.50	35.21	68.20	22.13	V
5129.190	50.94	-27.79	34.00	44.73	74.00	23.06	V
5148.060	50.53	-27.79	34.00	44.32	74.00	23.47	V

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.700	49.84	-29.59	45.95	33.48	74.00	24.16	V
17831.150	49.68	-29.59	45.95	33.32	74.00	24.32	V
14702.750	45.83	-30.04	41.50	34.37	68.20	22.37	V
14641.700	45.68	-30.67	41.70	34.65	68.20	22.52	V
11777.850	43.18	-32.71	39.20	36.69	74.00	30.82	H
11781.700	43.09	-32.71	39.20	36.60	74.00	30.91	V



## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17948.300	51.85	-29.59	45.95	35.49	74.00	22.15	H
17945.550	51.58	-29.59	45.95	35.22	74.00	22.42	H
14400.800	47.93	-30.24	41.90	36.27	68.20	20.27	H
14078.500	47.58	-30.20	41.70	36.08	68.20	20.62	H
11929.100	44.89	-32.53	39.10	38.32	74.00	29.11	H
11920.850	44.69	-32.53	39.10	38.12	74.00	29.31	H

## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17948.850	51.62	-29.59	45.95	35.26	74.00	22.38	V
17956.000	51.09	-29.59	45.95	34.73	74.00	22.91	V
13926.150	48.11	-30.81	41.40	37.52	68.20	20.09	H
14052.650	47.51	-31.31	41.60	37.22	68.20	20.69	H
11908.200	45.71	-32.53	39.10	39.14	74.00	28.29	V
11791.050	45.19	-32.09	39.20	38.08	74.00	28.81	H

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17873.500	51.87	-29.59	45.95	35.51	74.00	22.13	H
17955.450	51.64	-29.59	45.95	35.28	74.00	22.36	H
14698.900	48.01	-30.04	41.50	36.55	68.20	20.19	H
14017.450	47.81	-31.31	41.60	37.52	68.20	20.39	H
11896.650	45.17	-32.53	39.10	38.60	74.00	28.83	H
11787.750	44.88	-32.09	39.20	37.77	74.00	29.12	V

## Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17962.050	52.17	-29.59	45.95	35.81	74.00	21.83	H
17954.350	51.33	-29.59	45.95	34.97	74.00	22.67	H
14665.900	47.86	-30.04	41.50	36.40	68.20	20.34	V
14723.650	47.83	-30.13	41.35	36.61	68.20	20.37	V
5386.992	51.45	-27.82	34.20	45.07	74.00	22.55	H
5425.624	51.17	-27.94	34.30	44.81	74.00	22.83	H

## Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17914.750	51.46	-29.59	45.95	35.10	74.00	22.54	V
17934.550	51.44	-29.59	45.95	35.08	74.00	22.56	V
14656.000	47.64	-30.04	41.50	36.18	68.20	20.56	V
14702.200	47.60	-30.04	41.50	36.14	68.20	20.60	V
5448.573	51.44	-27.49	34.20	44.73	74.00	22.56	V
5469.205	51.66	-27.49	34.20	44.95	68.20	16.54	V

## Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17934.000	51.47	-29.59	45.95	35.11	74.00	22.53	V
17885.050	51.24	-29.59	45.95	34.88	74.00	22.76	H
14696.150	47.85	-30.04	41.50	36.39	68.20	20.35	V
14700.000	47.84	-30.04	41.50	36.38	68.20	20.36	H
11932.950	44.68	-32.42	39.05	38.05	74.00	29.32	H
11290.550	44.58	-32.41	38.70	38.29	74.00	29.42	H

## Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17960.400	51.74	-29.59	45.95	35.38	74.00	22.26	V
17925.750	51.28	-29.59	45.95	34.92	74.00	22.72	V
14015.250	48.18	-31.31	41.60	37.89	68.20	20.02	H
14587.250	47.87	-29.14	41.90	35.11	68.20	20.33	H
5725.031	54.35	-27.47	34.10	47.72	68.20	13.85	H
5814.736	52.07	-27.65	34.10	45.62	68.20	16.13	H

**802.11ac-VHT40**

## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.600	52.14	-29.59	45.95	35.78	74.00	21.86	V
17967.550	51.22	-29.59	45.95	34.86	74.00	22.78	V
14703.300	48.10	-30.13	41.35	36.88	68.20	20.10	V
14499.250	47.92	-29.56	41.90	35.58	74.00	26.08	V
5146.130	53.04	-27.79	34.00	46.83	74.00	20.96	H
5147.160	52.71	-27.79	34.00	46.50	74.00	21.29	V

## Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.750	51.72	-29.59	45.95	35.36	74.00	22.28	V
17948.850	51.60	-29.59	45.95	35.24	74.00	22.40	V
14692.300	47.99	-30.04	41.50	36.53	68.20	20.21	H
14070.800	47.93	-30.20	41.70	36.43	68.20	20.27	V
11913.700	45.45	-32.53	39.10	38.88	74.00	28.55	V
11879.600	44.49	-32.73	39.15	38.07	74.00	29.51	V

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17962.600	51.29	-29.59	45.95	34.93	74.00	22.71	V
17987.900	51.02	-29.59	45.95	34.66	74.00	22.98	V
14702.200	47.76	-30.04	41.50	36.30	68.20	20.44	V
14580.100	47.75	-29.14	41.90	34.99	68.20	20.45	V
11858.700	45.04	-32.73	39.15	38.62	74.00	28.96	V
11917.000	45.01	-32.53	39.10	38.44	74.00	28.99	H

## Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.500	52.10	-29.59	45.95	35.74	74.00	21.90	V
17906.500	51.40	-29.59	45.95	35.04	74.00	22.60	V
14687.350	47.66	-30.04	41.50	36.20	68.20	20.54	V
14692.850	47.61	-30.04	41.50	36.15	68.20	20.59	H
5414.088	51.50	-27.94	34.30	45.14	74.00	22.50	H
5421.432	50.95	-27.94	34.30	44.59	74.00	23.05	H

## Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.700	51.96	-29.59	45.95	35.60	74.00	22.04	H
17884.500	51.45	-29.59	45.95	35.09	74.00	22.55	V
14679.650	47.77	-30.04	41.50	36.31	68.20	20.43	V
14702.750	47.69	-30.04	41.50	36.23	68.20	20.51	V
5409.535	51.69	-27.94	34.30	45.33	74.00	22.31	V
5466.108	50.26	-27.49	34.20	43.55	68.20	17.94	H

## Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.200	51.42	-29.59	45.95	35.06	74.00	22.58	V
17949.950	51.22	-29.59	45.95	34.86	74.00	22.78	V
14187.400	48.00	-30.42	41.70	36.72	68.20	20.20	V
14124.150	47.75	-30.93	41.70	36.97	68.20	20.45	V
11902.150	45.25	-32.53	39.10	38.68	74.00	28.75	V
11516.050	44.80	-32.80	39.10	38.50	74.00	29.20	V

## Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17955.450	52.15	-29.59	45.95	35.79	74.00	21.85	H
17962.600	51.97	-29.59	45.95	35.61	74.00	22.03	H
14020.200	48.02	-31.31	41.60	37.73	68.20	20.18	V
14470.100	47.70	-29.56	41.90	35.36	74.00	26.30	H
5755.184	51.85	-27.21	34.00	45.06	68.20	16.35	H
5771.083	51.85	-27.21	34.00	45.06	68.20	16.35	H

**802.11ac-VHT80**

## Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17911.450	50.93	-29.59	45.95	34.57	74.00	23.07	V
17822.900	50.87	-29.59	45.95	34.51	74.00	23.13	H
14572.400	48.13	-29.14	41.90	35.37	68.20	20.07	V
14412.350	47.86	-30.03	41.90	35.99	68.20	20.34	H
5128.980	50.86	-27.79	34.00	44.65	74.00	23.14	H
5149.630	50.46	-28.00	34.00	44.46	74.00	23.54	H

**Channel 58**

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.100	52.26	-29.59	45.95	35.90	74.00	21.74	V
17998.900	51.25	-29.59	45.95	34.89	74.00	22.75	V
14681.300	48.18	-30.04	41.50	36.72	68.20	20.02	V
14660.950	47.97	-30.04	41.50	36.51	68.20	20.23	H
5458.912	51.27	-27.49	34.20	44.56	74.00	22.73	H
5439.464	51.22	-27.94	34.30	44.86	74.00	22.78	H

**Channel 106**

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.300	51.67	-29.59	45.95	35.31	74.00	22.33	V
17941.150	51.43	-29.59	45.95	35.07	74.00	22.57	V
14706.050	47.99	-30.13	41.35	36.77	68.20	20.21	H
14571.850	47.56	-29.14	41.90	34.80	68.20	20.64	V
5415.498	50.99	-27.94	34.30	44.63	74.00	23.01	H
5468.132	50.91	-27.49	34.20	44.20	68.20	17.29	H

**Channel 122**

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.250	52.79	-29.59	45.95	36.43	74.00	21.21	H
17946.100	52.15	-29.59	45.95	35.79	74.00	21.85	H
14690.650	48.11	-30.04	41.50	36.65	68.20	20.09	V
14672.500	47.68	-30.04	41.50	36.22	68.20	20.52	H
5764.669	51.82	-27.21	34.00	45.03	68.20	16.38	H
5731.699	51.68	-27.47	34.10	45.05	68.20	16.52	V

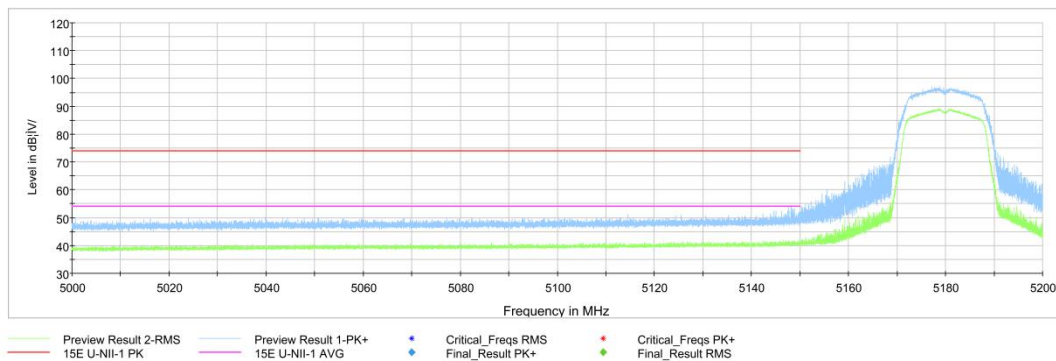
**Conclusion: PASS**

**Band edge compliance**

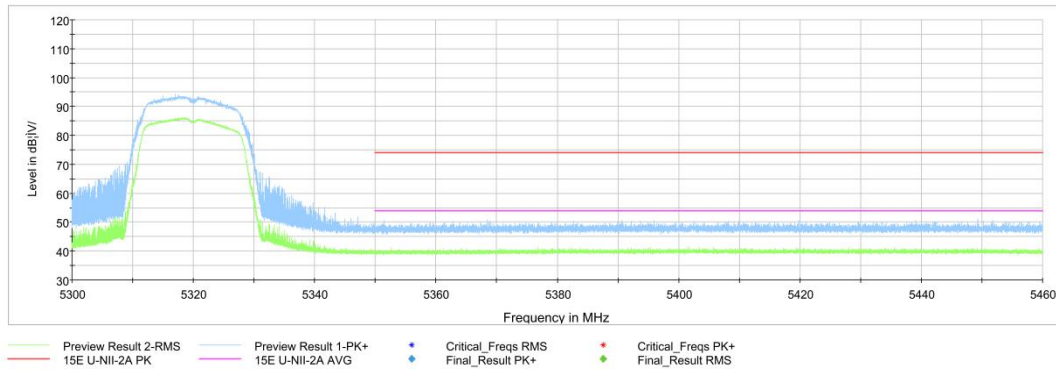
Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.34	P
	5320 MHz	Fig.35	P
	5500 MHz	Fig.36	P
	5700 MHz	Fig.37	P
802.11n HT20	5180 MHz	Fig.38	P
	5320 MHz	Fig.39	P
	5500 MHz	Fig.40	P
	5700 MHz	Fig.41	P
802.11n HT40	5190 MHz	Fig.42	P
	5310 MHz	Fig.43	P
	5510 MHz	Fig.44	P
	5670 MHz	Fig.45	P
802.11ac VHT20	5180 MHz	Fig.46	P
	5320 MHz	Fig.47	P
	5500 MHz	Fig.48	P
	5700 MHz	Fig.49	P
802.11ac VHT40	5190 MHz	Fig.50	P
	5310 MHz	Fig.51	P
	5510 MHz	Fig.52	P
	5670 MHz	Fig.53	P
802.11ac VHT80	5210MHz	Fig.54	P
	5290MHz	Fig.55	P
	5530MHz	Fig.56	P
	5610MHz	Fig.57	P

**Conclusion: PASS**

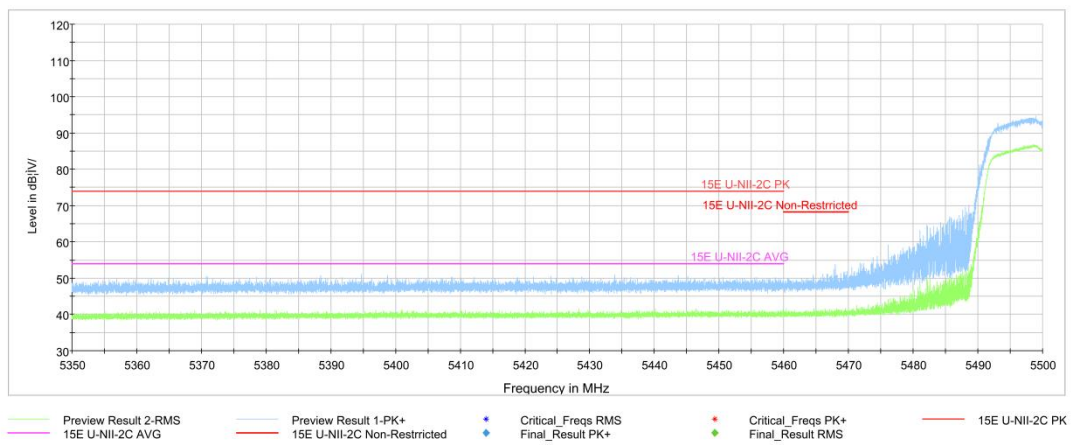
**Test graphs as below:**



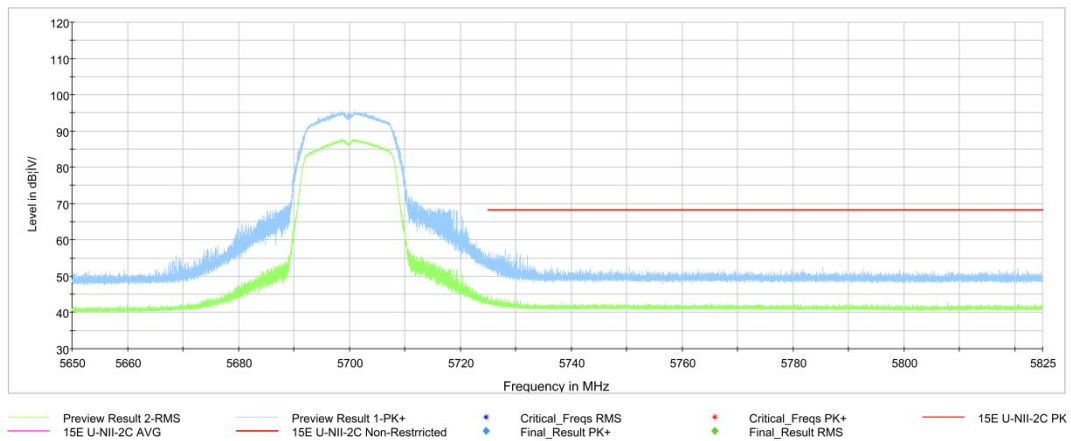
**Fig. 34 Band Edges (802.11a Ch36, 5180MHz)**



**Fig. 35 Band Edges (802.11a Ch64, 5320MHz)**

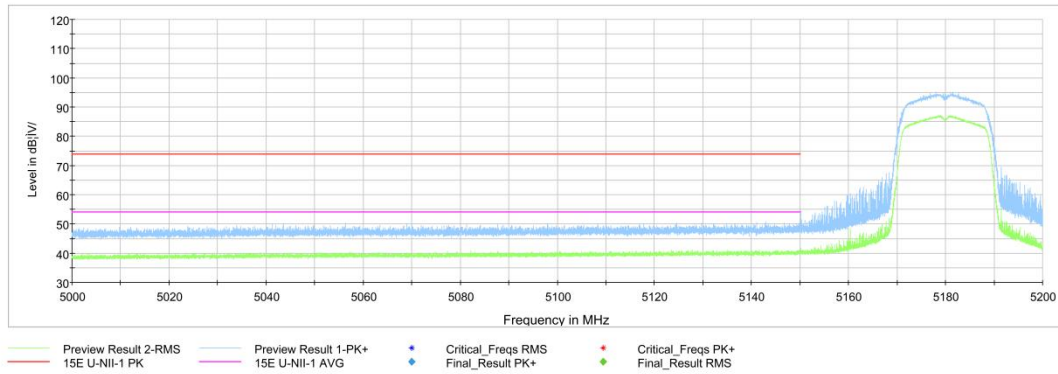


**Fig. 36 Band Edges (802.11a Ch100, 5500MHz)**

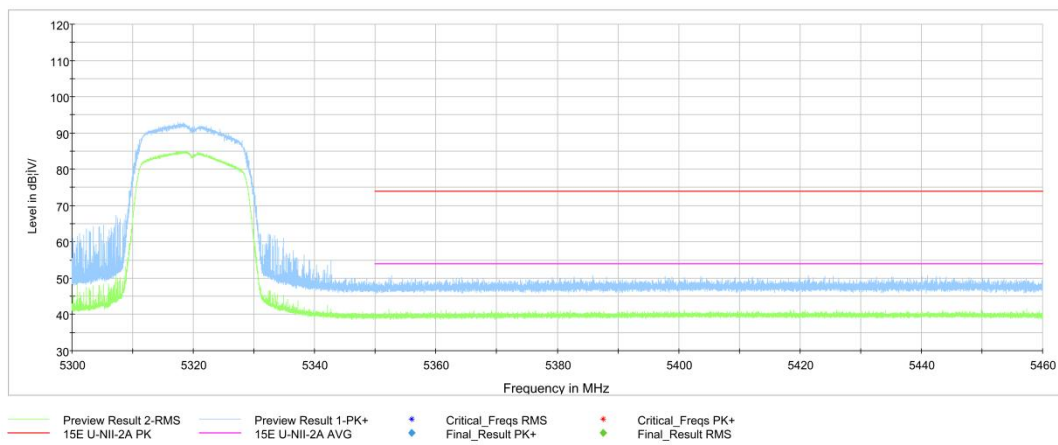


**Fig. 37 Band Edges (802.11a Ch140, 5700MHz)**

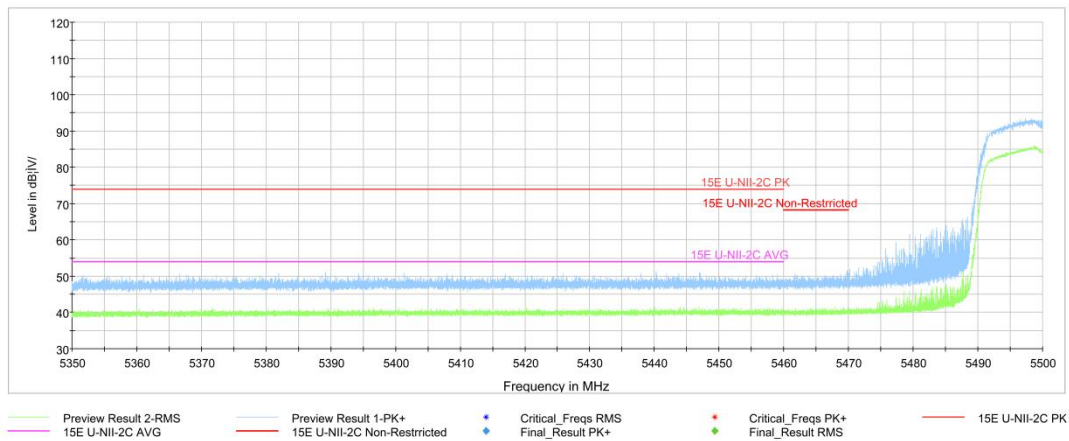




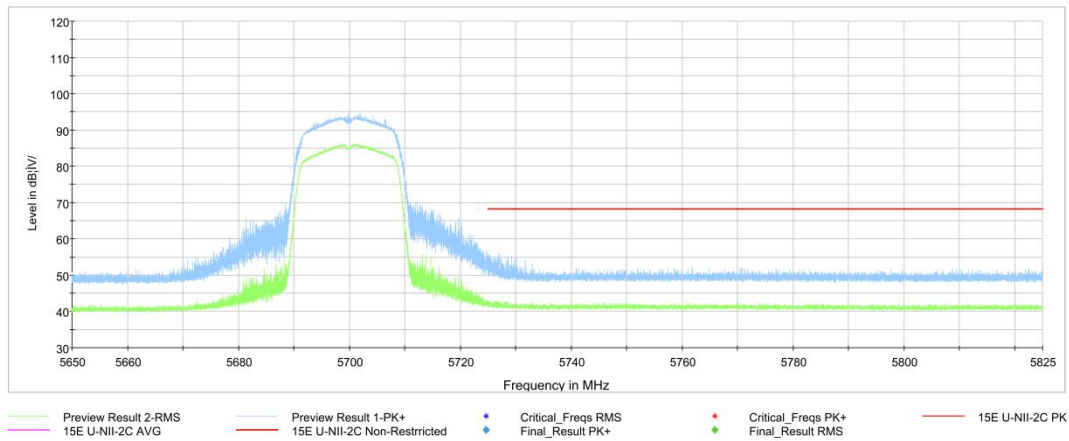
**Fig. 38 Band Edges (802.11n-HT20 Ch36, 5180MHz)**



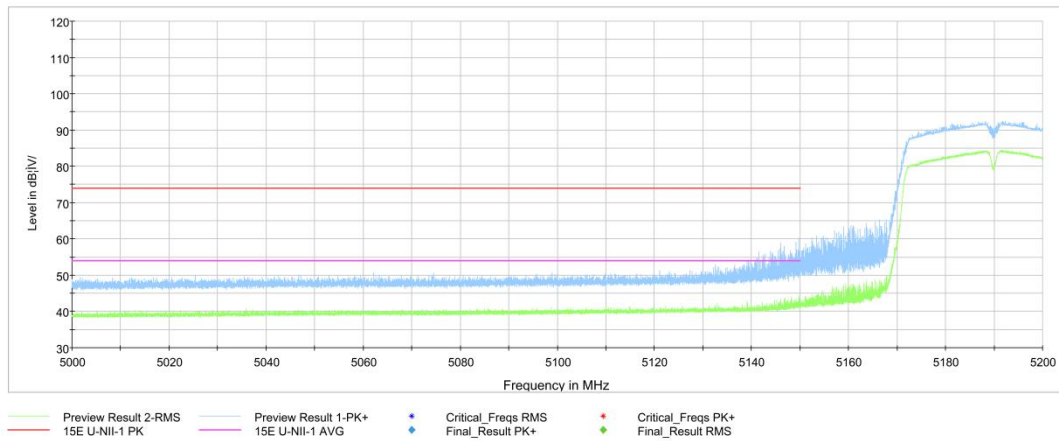
**Fig. 39 Band Edges (802.11n-HT20 Ch64, 5320MHz)**



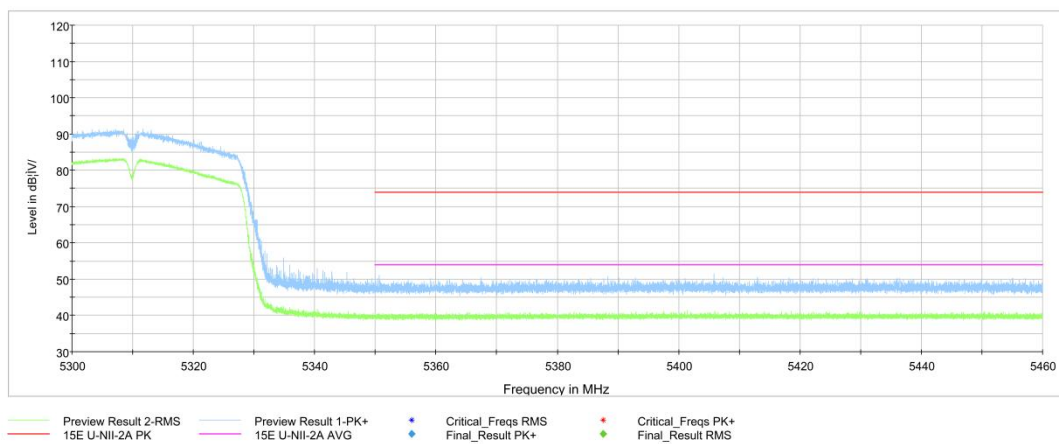
**Fig. 40 Band Edges (802.11n-HT20 Ch100, 5500MHz)**



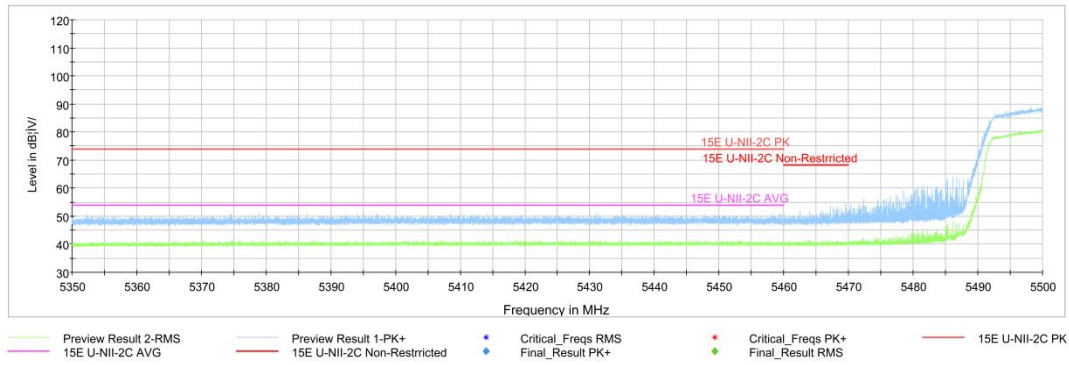
**Fig. 41 Band Edges (802.11n-HT20 Ch140, 5700MHz)**



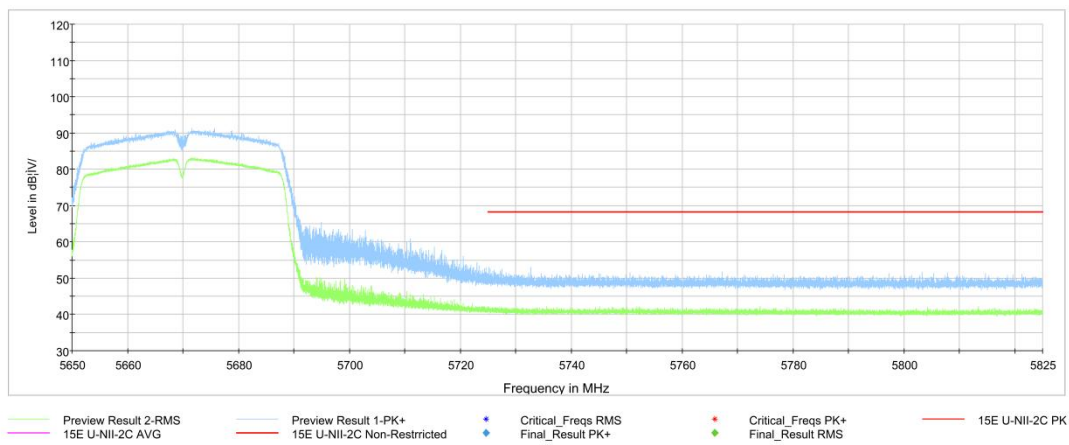
**Fig. 42 Band Edges (802.11n-HT40 Ch38, 5190MHz)**



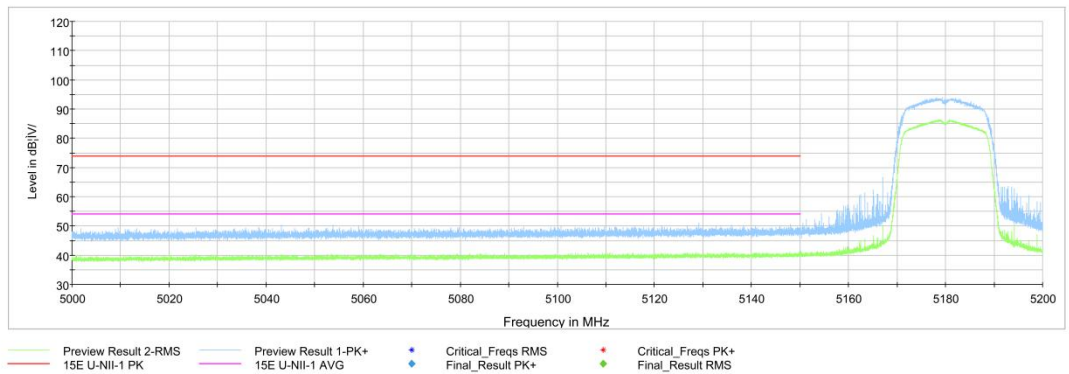
**Fig. 43 Band Edges (802.11n-HT40 Ch62, 5310MHz)**



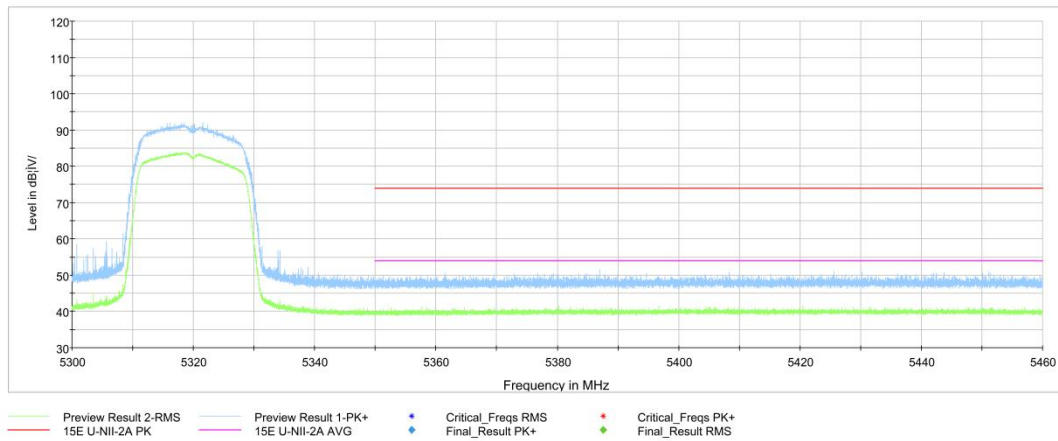
**Fig. 44 Band Edges (802.11n-HT40 Ch102, 5510MHz)**



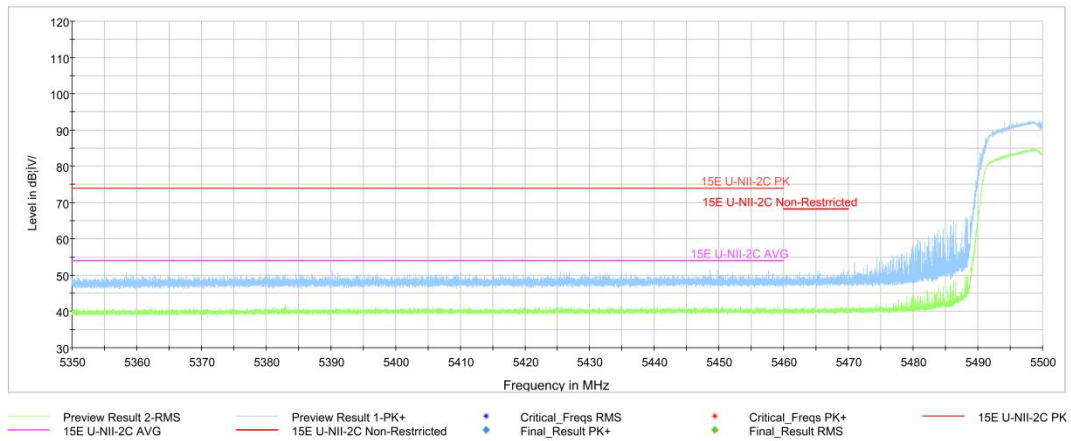
**Fig. 45 Band Edges (802.11n-HT40 Ch134, 5670MHz)**



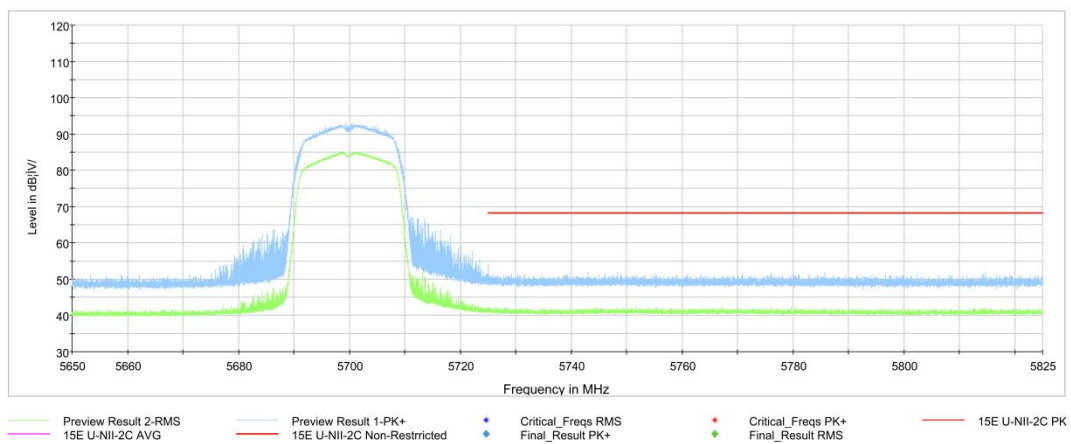
**Fig. 46 Band Edges (802.11ac-VHT20 Ch36, 5180MHz)**



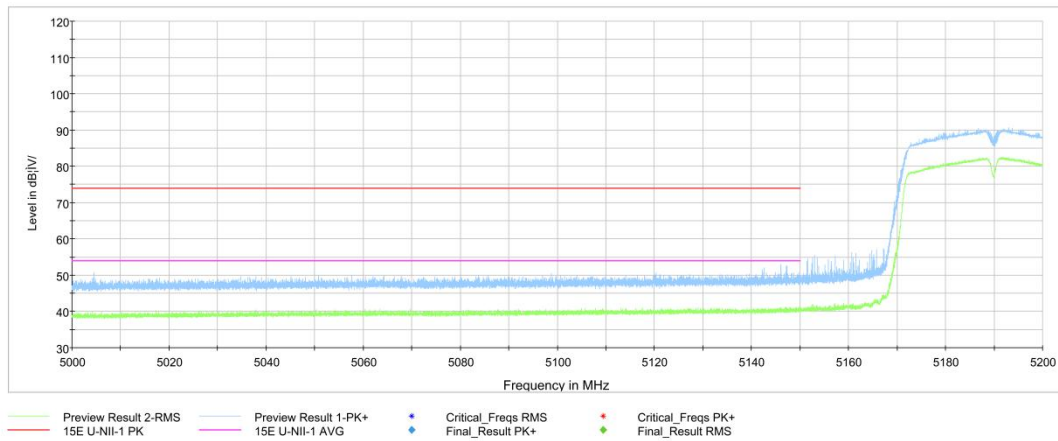
**Fig. 47 Band Edges (802.11ac-VHT20 Ch64, 5320MHz)**



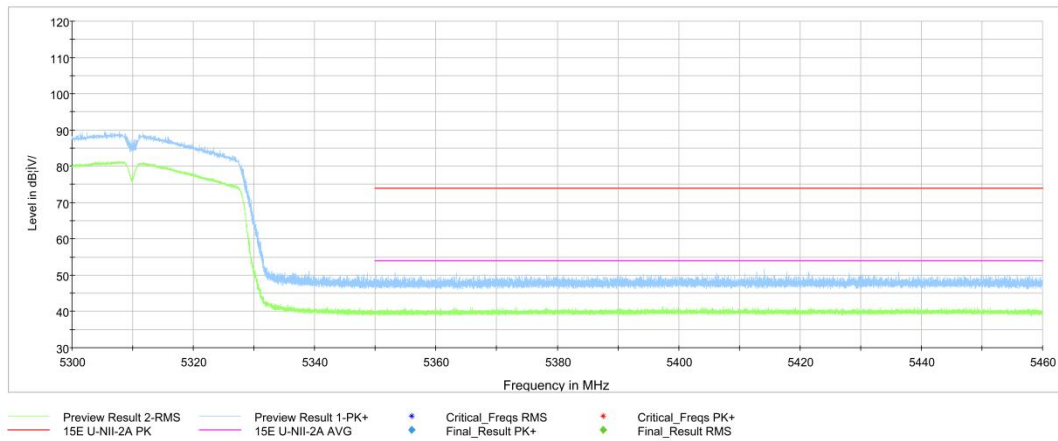
**Fig. 48 Band Edges (802.11ac-VHT20 Ch100, 5500MHz)**



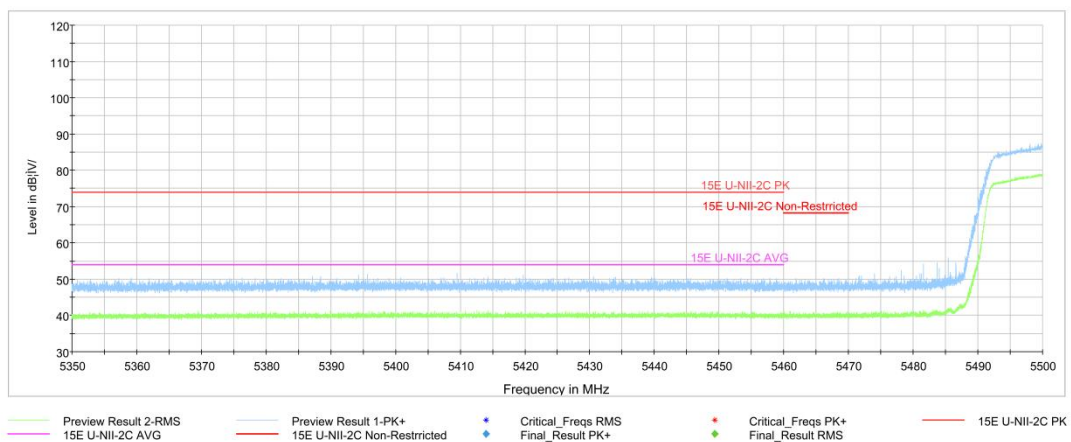
**Fig. 49 Band Edges (802.11ac-VHT20 Ch140, 5700MHz)**



**Fig. 50 Band Edges (802.11ac-VHT40 Ch38, 5190MHz)**



**Fig. 51 Band Edges (802.11ac-VHT40 Ch62, 5310MHz)**



**Fig. 52 Band Edges (802.11ac-VHT40 Ch102, 5510MHz)**