



# FCC PART 15C TEST REPORT

No.I22Z62294-IOT04

for

**Shenzhen Tinno Mobile Technology Corp.**

**Smart Phone**

**U6080AA、U6080AC**

**With**

**FCC ID: XD6U6080AA**

**Hardware Version: V1.0**

**Software Version: U6080AAV01.04.10/U6080ACV01.04.10**

**Issued Date: 2023-02-28**

**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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

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## REPORT HISTORY

Report Number	Revision	Description	Issue Date
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## **1. TEST LATORATORY**

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

**Telecommunication Technology Labs, CAICT** is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP 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,  
P. R. China100191

### 1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

### 1.4. Project date

Testing Start Date: 2022-11-21

Testing End Date: 2023-02-28

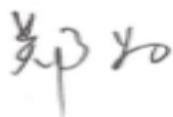
### 1.5. Signature



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Xie Xiuzhen

(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: Shenzhen Tinno Mobile Technology Corp.  
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City: Shenzhen  
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Telephone: 0755-86095550  
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### **2.2. Manufacturer Information**

Company Name: Shenzhen Tinno Mobile Technology Corp.  
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enzen ,PRC  
City: Shenzhen  
Contact: xiaoping.li  
Country: China  
Email: xiaoping.li@tinno.com  
Telephone: 0755-86095550  
Fax: 0755-86095551

### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY**

#### **EQUIPMENT(AE)**

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

Description	Smart Phone
Model name	U6080AA、U6080AC
FCC ID	XD6U6080AA
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Voltage	3.85V

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

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	868091060012895	V1.0	U6080AAV01.04.10
EUT2	868091060006541	V1.0	U6080AAV01.04.10

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

EUT2 is used for Conduction test, EUT1 is used for Radiation test.

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

<b>AE ID*</b>	<b>Description</b>	<b>Type</b>
AE1	Charger1	TN-050200U3

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

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

Equipment Under Test (EUT) is a model of Smart Phone with integrated antenna. It consists of normal options: Battery and Charger.

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

Samples undergoing test were selected by the Client.

## **4. REFERENCE DOCUMENTS**

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

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

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

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

FCC Part15	FCC CFR 47, Part 15, Subpart C and E: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2021
ANSI C63.10		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. SUMMARY OF TEST RESULTS

### 6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.407 (a)	/	P
Peak Power Spectral Density	15.407 (a)	/	P
Occupied 6dB Bandwidth	15.407 (e)	/	P
Band Edges Compliance - Conducted& Radiated	15.407 (b)	/	P
Transmitter Spurious Emission - Conducted	15.407	/	P
Transmitter Spurious Emission - Radiated	15.407, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

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 requested by the client/manufacturer 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 4.1.

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	3.85V
Humidity	44%

## 7. TEST EQUIPMENTS 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	2023-05-15
2	LISN	ENV216	101200	Rohde & Schwarz	1 year	2023-06-29
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2023-03-21
4	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	R&S	1 year	2023-10-25
2	BiLog Antenna	VULB9163	01223	Schwarzbeck	1 year	2023-10-25
3	EMI Antenna	3115	0016725	ETS-Lindgren	1 year	2023-06-20

## **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. Occupied 6dB 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)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤ 3.6GHz	1.22
3.6GHz ≤ f ≤ 8GHz	1.22
8GHz ≤ f ≤ 12.75GHz	1.51
12.75GHz ≤ f ≤ 26GHz	1.51
26GHz ≤ f ≤ 40GHz	1.59

#### **Radiated (k=2)**

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	5.16
1GHz ≤ f ≤ 18GHz	5.44
18GHz ≤ f ≤ 40GHz	5.28

### **8.6. AC Power-line Conducted Emission**

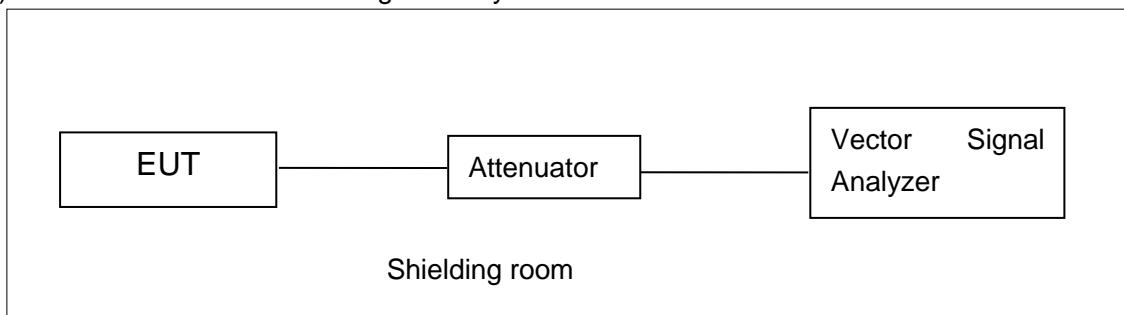
Measurement Uncertainty : 3.08dB,k=2

## ANNEX A: MEASUREMENT 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

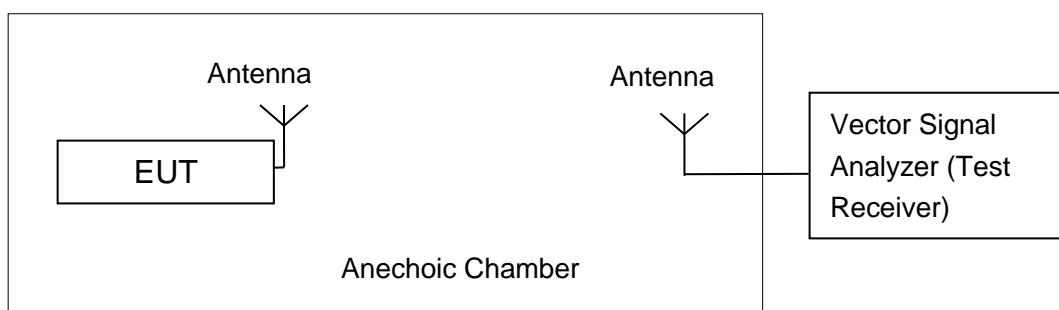


#### A.1.2. Radiated Emission Measurements

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

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

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



The measurement is made according to ANSI C63.10.

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

## A.2. Maximum Peak Output Power

### Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.407(a)	< 30

### A.2.1 Antenna Gain

Antenna gain is -0.50dBi and the value is supplied by the applicant or manufacturer.

### A.2.2. Maximum Average Output Power-Conducted

#### Measurement Results:

##### 802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	18.26	18.33	18.42
	9	/	/	/
	12	/	/	/
	18	/	/	/
	24	/	/	/
	36	/	/	/
	48	/	/	/
	54	/	/	/

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

##### 802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11n (20MHz)	MCS0	18.15	18.24	18.32
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/

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

**802.11ac-HT20 mode**

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ac (20MHz)	MCS0	16.66	16.69	16.82
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/
	MCS8	/	/	/

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

**802.11n-HT40 mode**

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11n (40MHz)	MCS0	17.81	17.87
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/
	MCS5	/	/
	MCS6	/	/
	MCS7	/	/

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

**802.11ac-HT40 mode**

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ac (40MHz)	MCS0	16.47	16.55
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/
	MCS5	/	/
	MCS6	/	/
	MCS7	/	/

	MCS8	/	/
	MCS9	/	/

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

#### 802.11ac-HT80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ac (80MHz)	MCS0	15.57
	MCS1	/
	MCS2	/
	MCS3	/
	MCS4	/
	MCS5	/
	MCS6	/
	MCS7	/
	MCS8	/
	MCS9	/

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%

**Conclusion: PASS**

### A.3. Peak Power Spectral Density

#### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407(a)	< 30 dBm/500 kHz

The measurement is made according to ANSI C63.10 and KDB789033 D02

#### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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#### Measurement Results:

Mode	Channel	Power Spectral Density ( dBm/500kHz )	Conclusion
802.11a	149	5.18	P
	157	4.83	P
	165	5.03	P
802.11n HT20	149	4.58	P
	157	4.80	P
	165	4.96	P
802.11n HT40	151	1.81	P
	159	1.64	P
802.11ac HT80	155	-3.83	P

**Conclusion: PASS**

#### A.4. Occupied 6dB Bandwidth

##### Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.407 (e)	≥ 500

The measurement is made according to KDB789033 D02 .

##### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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##### Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth ( MHz)		conclusion
802.11a	149	Fig.1	16.30	P
	157	Fig.2	16.30	P
	165	Fig.3	16.30	P
802.11n HT20	149	Fig.4	17.60	P
	157	Fig.5	17.60	P
	165	Fig.6	17.55	P
802.11n HT40	151	Fig.7	36.08	P
	159	Fig.8	36.32	P
802.11ac HT80	155	Fig.9	76.48	P

##### Conclusion: PASS

Test graphs as below:

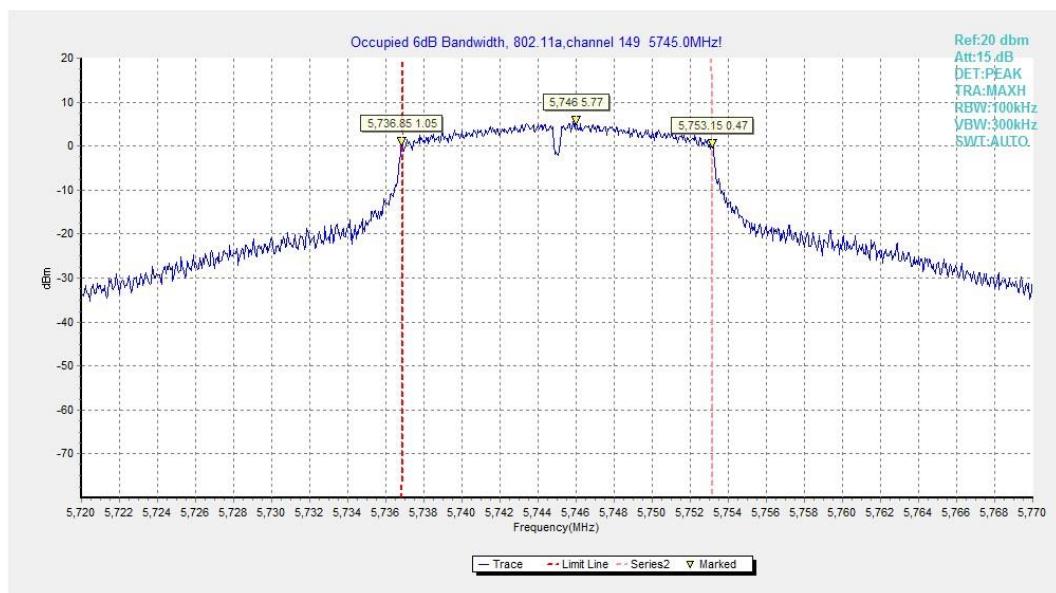
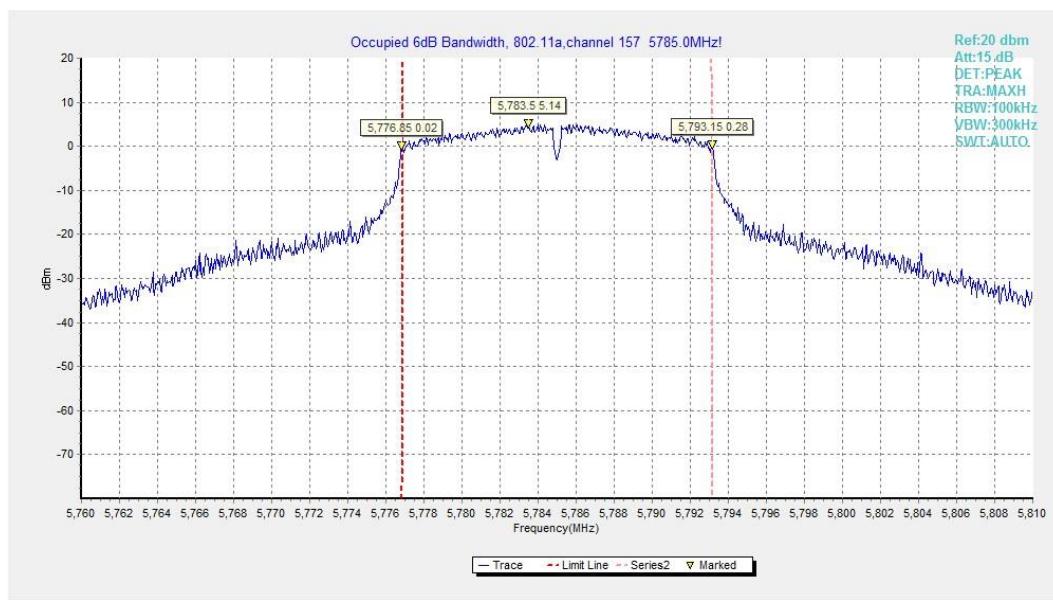
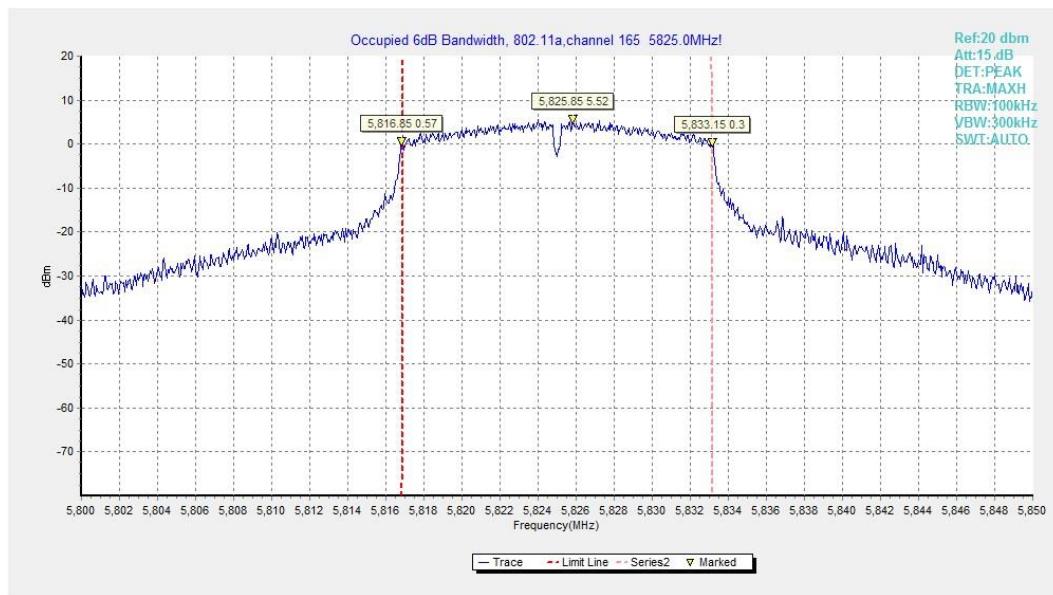


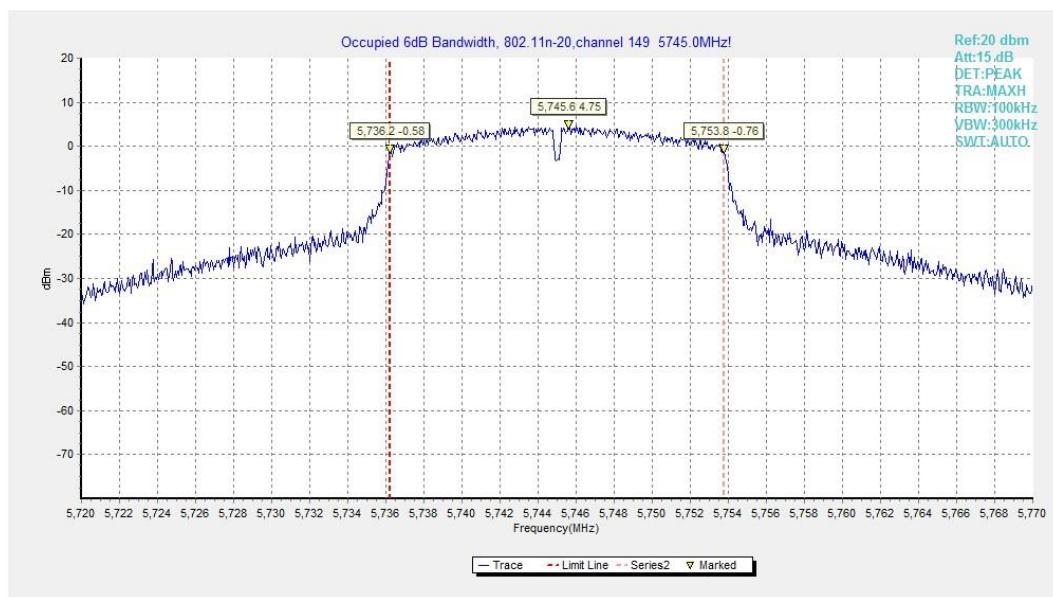
Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)



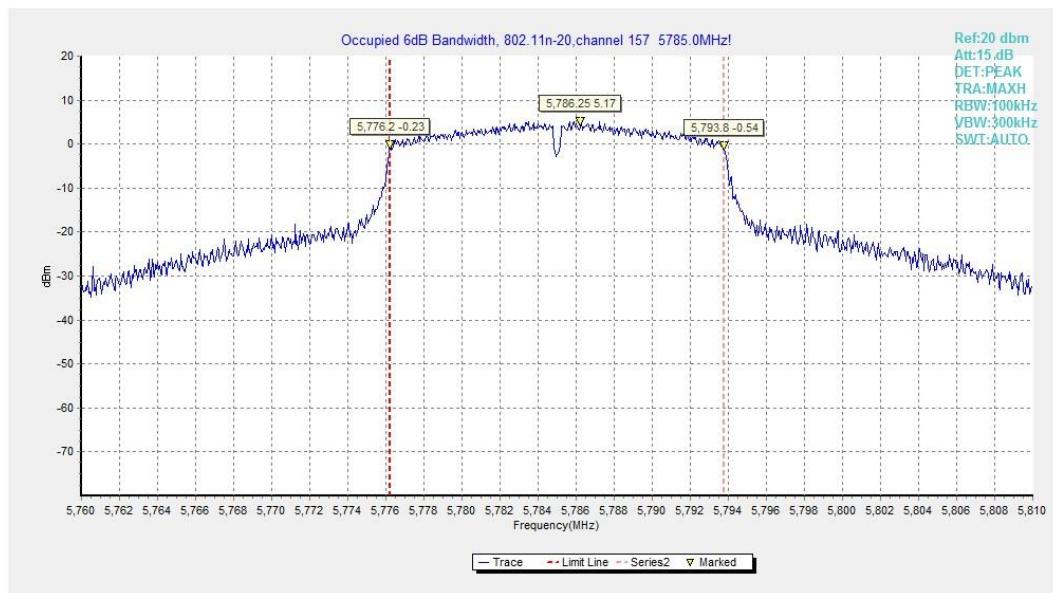
**Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)**



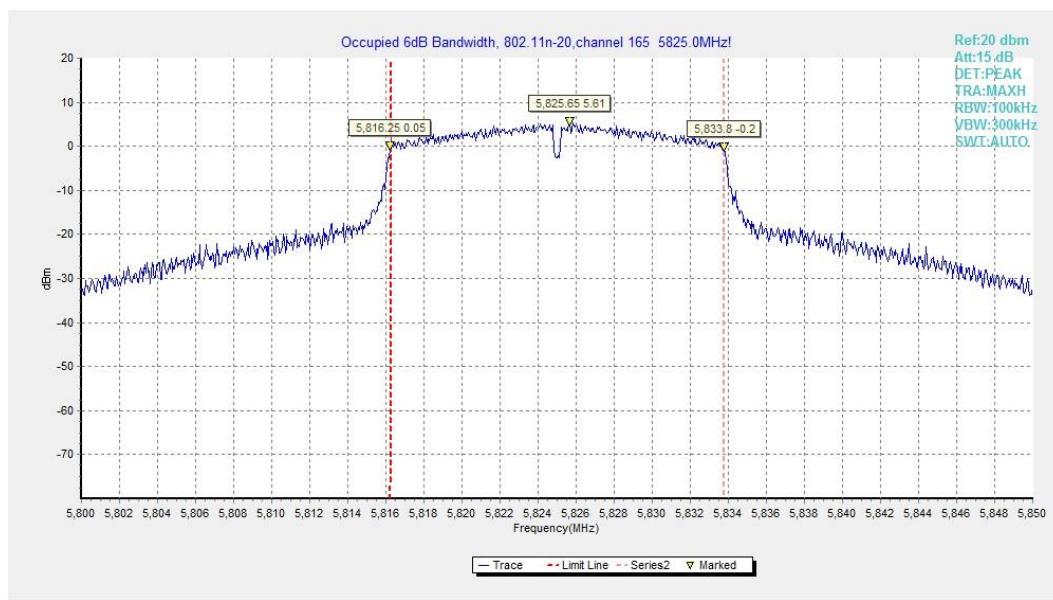
**Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)**



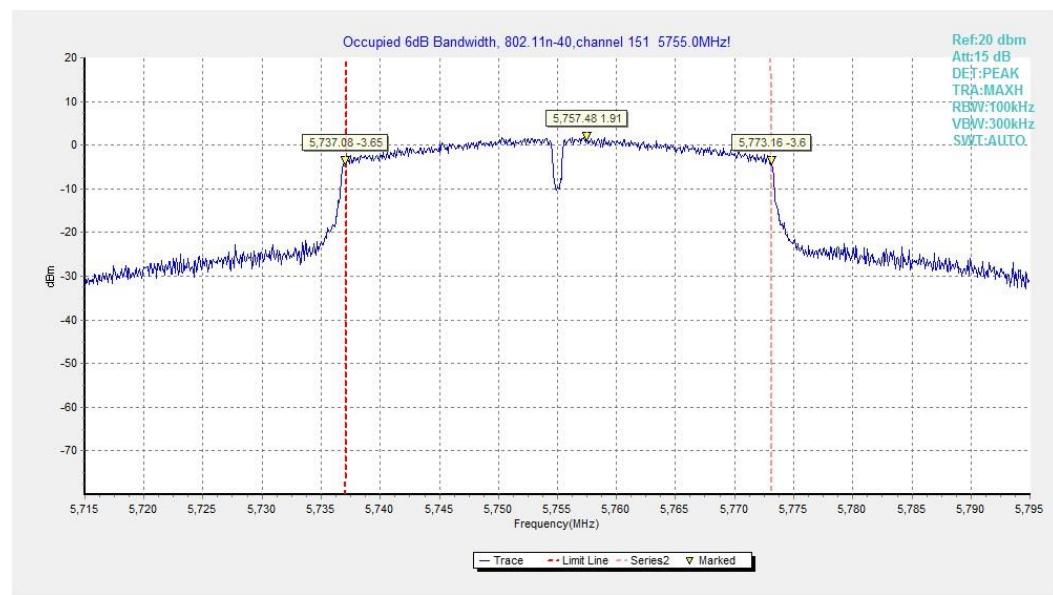
**Fig. 4 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)**



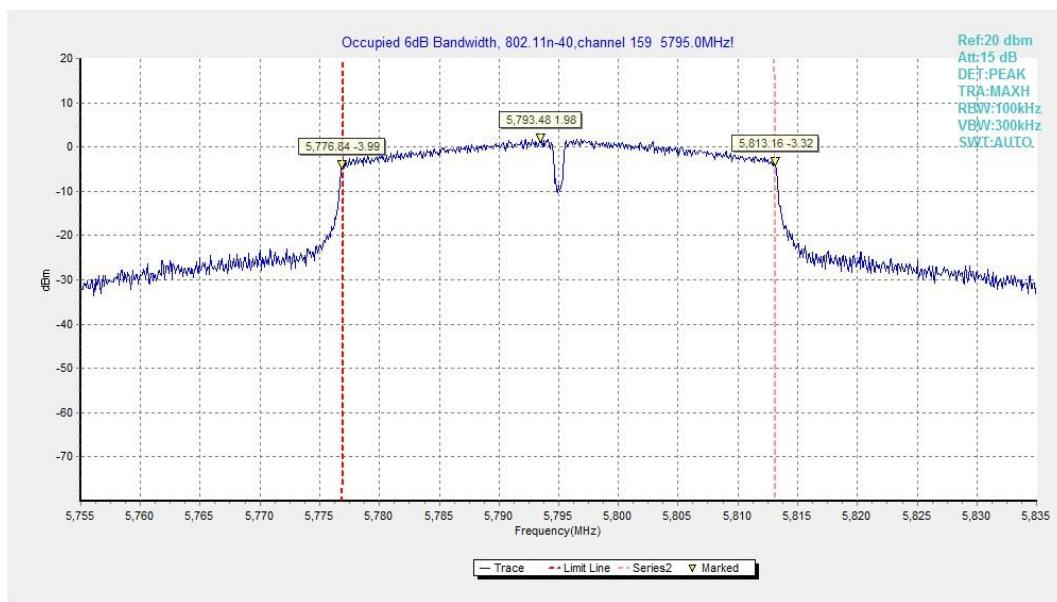
**Fig. 5 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)**



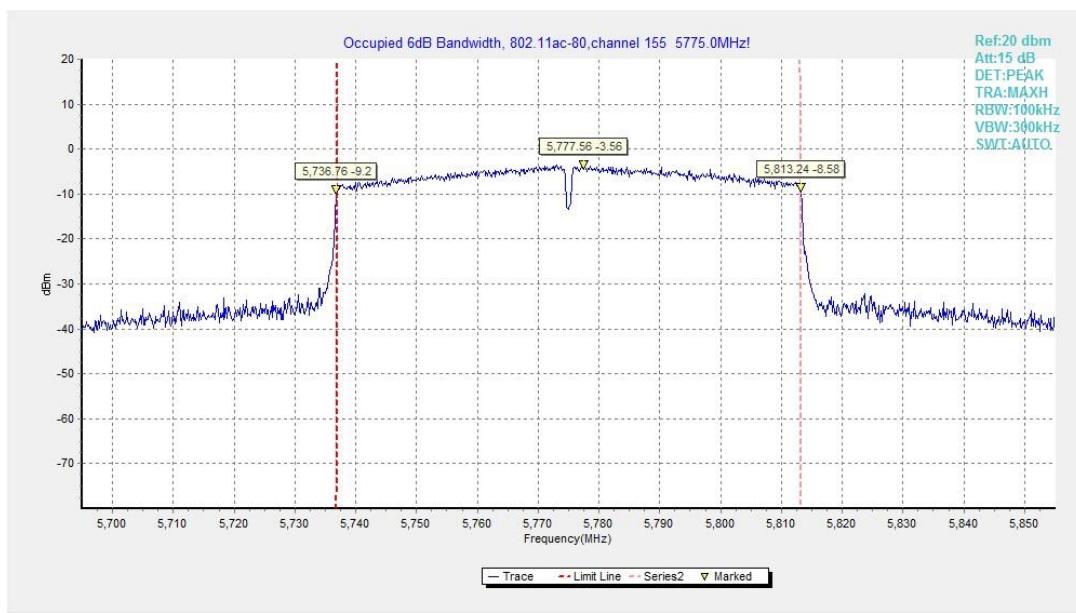
**Fig. 6 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)**



**Fig. 7 Occupied 6dB Bandwidth (802.11n-HT40, Ch 151)**



**Fig. 8 Occupied 6dB Bandwidth (802.11n-HT40, Ch 159)**



**Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)**

## A.5. Transmitter Spurious Emission

### A.5.1 Transmitter Spurious Emission - Radiated

#### Measurement Limit:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: Increasing linearly from point to point.	

The measurement is made according to KDB 789033

#### Measurement Results:

##### 802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	165	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

**802.11n-HT20 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	165	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

**802.11n-HT40 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

**802.11ac-HT20 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT20)	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	165	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

**802.11ac-HT40 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

**802.11ac-HT80 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT80)	155	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P

**Conclusion: PASS**
**Note:**

A "reference path loss" is established and the  $A_{RPL}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{Mea}$  is the field strength recorded from the instrument.

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

Channel 149

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)
17932.9	39.98	-25.5	46.66	18.82	54	14.02	V
17937.3	39.66	-25.5	46.66	18.5	54	14.34	H
14498.7	36.92	-28.59	42.46	23.05	54	17.08	H
14492.65	36.67	-28.59	42.46	22.8	54	17.33	V
11799.85	35.97	-31.85	39.05	28.77	54	18.03	H
11373.6	35.77	-32.42	38.79	29.4	54	18.23	H

Channel 157

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)
17992.3	39.89	-25.5	46.66	18.73	54	14.11	V
17997.8	39.88	-25.5	46.66	18.72	54	14.12	V
14494.3	36.8	-28.59	42.46	22.93	54	17.2	H
13274.95	36.71	-29.67	39.55	26.83	54	17.29	H
11773.45	35.89	-31.99	38.98	28.9	54	18.11	V
11821.85	35.87	-31.85	39.05	28.67	54	18.13	V

Channel 165

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)
17943.9	39.59	-25.5	46.66	18.43	54	14.41	H
17987.9	39.59	-25.5	46.66	18.43	54	14.41	V
14493.75	36.75	-28.59	42.46	22.88	54	17.25	H
14480.55	36.67	-28.59	42.46	22.8	54	17.33	H
11776.75	36.21	-31.99	38.98	29.22	54	17.79	H
11766.3	35.82	-31.99	38.98	28.83	54	18.18	H

**802.11n-HT20**
**Channel 149**

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)
17996.7	40.19	-25.5	46.66	19.03	54	13.81	H
17941.15	39.81	-25.5	46.66	18.65	54	14.19	H
14494.3	37.37	-28.59	42.46	23.5	54	16.63	V
14499.25	36.59	-28.59	42.46	22.72	54	17.41	V
11777.3	35.7	-31.99	38.98	28.71	54	18.3	V
10850.55	35.66	-32.33	38.59	29.4	54	18.34	V

**Channel 157**

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)
17932.9	39.86	-25.5	46.66	18.7	54	14.14	H
17937.3	39.66	-25.5	46.66	18.5	54	14.34	V
14486.05	36.57	-28.59	42.46	22.7	54	17.43	V
13332.7	36.5	-29.49	39.71	26.28	54	17.5	V
11860.9	35.64	-31.85	39.05	28.44	54	18.36	H
11849.35	35.6	-31.85	39.05	28.4	54	18.4	V

**Channel 165**

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)
17951.05	39.59	-25.5	46.66	18.43	54	14.41	V
17962.05	39.57	-25.5	46.66	18.41	54	14.43	H
14489.35	36.5	-28.59	42.46	22.63	54	17.5	V
13267.25	36.42	-29.67	39.55	26.54	54	17.58	V
11820.2	35.72	-31.85	39.05	28.52	54	18.28	H
11775.1	35.59	-31.99	38.98	28.6	54	18.41	V

**802.11n-HT40**

## Channel 151

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)
17935.65	39.65	-25.5	46.66	18.49	54	14.35	H
17964.25	39.45	-25.5	46.66	18.29	54	14.55	H
14496.5	36.2	-28.59	42.46	22.33	54	17.8	H
13265.05	36.16	-29.67	39.55	26.28	54	17.84	V
11853.2	35.74	-31.85	39.05	28.54	54	18.26	V
11853.75	35.6	-31.85	39.05	28.4	54	18.4	V

## Channel 159

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)
17935.1	39.93	-25.5	46.66	18.77	54	14.07	H
17930.15	39.75	-25.5	46.66	18.59	54	14.25	H
14494.85	36.81	-28.59	42.46	22.94	54	17.19	H
13302.45	36.72	-29.49	39.71	26.5	54	17.28	H
11762.45	36.12	-31.99	38.98	29.13	54	17.88	H
11796	35.9	-31.85	39.05	28.7	54	18.1	H

**802.11ac-HT20**
**Channel 149**

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)
17996.7	39.77	-25.5	46.66	18.61	54	14.23	V
17934.55	39.63	-25.5	46.66	18.47	54	14.37	V
14497.6	36.89	-28.59	42.46	23.02	54	17.11	V
14498.15	36.62	-28.59	42.46	22.75	54	17.38	V
11775.65	35.79	-31.99	38.98	28.8	54	18.21	V
11780.6	35.77	-31.99	38.98	28.78	54	18.23	H

**Channel 157**

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)
17947.75	39.8	-25.5	46.66	18.64	54	14.2	V
17954.9	39.61	-25.5	46.66	18.45	54	14.39	V
14491	36.75	-28.59	42.46	22.88	54	17.25	H
13310.15	36.59	-29.49	39.71	26.37	54	17.41	H
11867.5	35.85	-31.85	39.05	28.65	54	18.15	H
11869.15	35.83	-31.85	39.05	28.63	54	18.17	H

**Channel 165**

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)
17984.05	39.89	-25.5	46.66	18.73	54	14.11	H
17994.5	39.83	-25.5	46.66	18.67	54	14.17	H
14486.05	36.77	-28.59	42.46	22.9	54	17.23	H
13310.7	36.69	-29.49	39.71	26.47	54	17.31	V
11790.5	36.44	-31.99	38.98	29.45	54	17.56	H
11849.35	35.86	-31.85	39.05	28.66	54	18.14	H

### 802.11ac-HT40

Channel 151

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	40.42	-25.5	46.66	19.26	54	13.58	H
17985.15	40.1	-25.5	46.66	18.94	54	13.9	H
13329.95	36.95	-29.49	39.71	26.73	54	17.05	H
14484.95	36.9	-28.59	42.46	23.03	54	17.1	H
11840.55	36.16	-31.85	39.05	28.96	54	17.84	H
11770.7	36.09	-31.99	38.98	29.1	54	17.91	V

Channel 159

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)
17936.75	39.87	-25.5	46.66	18.71	54	14.13	H
17992.85	39.87	-25.5	46.66	18.71	54	14.13	H
14489.9	36.98	-28.59	42.46	23.11	54	17.02	V
13298.6	36.95	-29.49	39.71	26.73	54	17.05	V
11819.1	36.25	-31.85	39.05	29.05	54	17.75	V
11786.1	36.1	-31.99	38.98	29.11	54	17.9	V

### 802.11ac-HT80

Channel 155

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)
17953.8	40.28	-25.5	46.66	19.12	54	13.72	H
17948.85	40.22	-25.5	46.66	19.06	54	13.78	H
13294.75	37.16	-29.49	39.71	26.94	54	16.84	H
13327.75	37.1	-29.49	39.71	26.88	54	16.9	V
11771.25	36.35	-31.99	38.98	29.36	54	17.65	H
11892.25	36.22	-31.85	39.05	29.02	54	17.78	H

**Peak Results:**
**802.11a**

Channel 149

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)
17242.65	50.69	-25.95	44.35	32.28	68.2	17.51	H
17220.65	50.49	-25.95	44.35	32.08	68.2	17.71	H
13653.35	48.24	-29.5	40.43	37.31	68.2	19.96	H
13718.8	48.23	-29.1	40.86	36.46	68.2	19.97	H
11827.35	47.16	-31.85	39.05	39.96	74	26.84	H
11862	46.53	-31.85	39.05	39.33	74	27.47	V

Channel 157

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)
17394.45	51.02	-26.85	45.25	32.62	68.2	17.18	H
17930.15	50.89	-25.5	46.66	29.73	74	23.11	V
13730.9	48.4	-29.1	40.86	36.63	68.2	19.8	V
14068.05	48.4	-29.44	41.66	36.18	68.2	19.8	H
11905.45	48.17	-31.85	39.05	40.97	74	25.83	V
11854.85	46.81	-31.85	39.05	39.61	74	27.19	H

Channel 165

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)
17878.45	50.82	-25.5	46.66	29.66	74	23.18	V
17422.5	50.75	-26.85	45.25	32.35	68.2	17.45	V
13698.45	49.01	-29.1	40.86	37.24	68.2	19.19	V
13763.35	48.72	-29.1	40.86	36.95	68.2	19.48	V
11852.1	47.42	-31.85	39.05	40.22	74	26.58	H
10823.05	47.08	-32.33	38.59	40.82	74	26.92	V

**802.11n-HT20**
**Channel 149**

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)
17964.8	50.39	-25.5	46.66	29.23	74	23.61	H
17937.85	50.35	-25.5	46.66	29.19	74	23.65	V
13736.4	49.55	-29.1	40.86	37.78	68.2	18.65	V
14123.05	48.52	-28.99	42	35.5	68.2	19.68	V
11827.35	46.57	-31.85	39.05	39.37	74	27.43	H
11604.6	46.47	-32.31	38.91	39.88	74	27.53	H

**Channel 157**

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)
17355.4	50.44	-25.95	44.35	32.03	68.2	17.76	V
17912	50.37	-25.5	46.66	29.21	74	23.63	V
13790.3	48.59	-29.1	40.86	36.82	68.2	19.61	V
13716.6	48.09	-29.1	40.86	36.32	68.2	20.11	H
11910.4	46.49	-31.85	39.05	39.29	74	27.51	H
10487	46.46	-32.99	38.27	41.17	68.2	21.74	H

**Channel 165**

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)
17223.95	50.12	-25.95	44.35	31.71	68.2	18.08	V
17281.15	50.07	-25.95	44.35	31.66	68.2	18.13	V
13739.15	48.96	-29.1	40.86	37.19	68.2	19.24	H
13714.4	48.71	-29.1	40.86	36.94	68.2	19.49	V
11867.5	46.9	-31.85	39.05	39.7	74	27.1	V
11810.3	46.76	-31.85	39.05	39.56	74	27.24	V

**802.11n-HT40**

## Channel 151

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)
17968.1	50.7	-25.5	46.66	29.54	74	23.3	H
17909.25	50.19	-25.5	46.66	29.03	74	23.81	H
13664.35	48.35	-29.5	40.43	37.42	68.2	19.85	H
13694.6	48.01	-29.1	40.86	36.24	68.2	20.19	H
11279	46.72	-32.36	38.77	40.32	74	27.28	H
10735.05	46.12	-32.77	38.49	40.4	74	27.88	H

## Channel 159

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)
17467.05	50.97	-26.85	45.25	32.57	68.2	17.23	H
17946.65	50.73	-25.5	46.66	29.57	74	23.27	H
13741.35	48.46	-29.1	40.86	36.69	68.2	19.74	H
13737.5	48.28	-29.1	40.86	36.51	68.2	19.92	H
11746.5	46.51	-31.99	38.98	39.52	74	27.49	H
11797.65	46.37	-31.85	39.05	39.17	74	27.63	H

**802.11ac-HT20**
**Channel 149**

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)
17200.85	51.04	-26.6	43.36	34.28	68.2	17.16	V
17350.45	50.66	-25.95	44.35	32.25	68.2	17.54	V
14569.1	48.86	-27.29	41.9	34.25	68.2	19.34	H
14097.2	48.72	-29.44	41.66	36.5	68.2	19.48	H
11761.35	46.66	-31.99	38.98	39.67	74	27.34	V
11772.35	46.45	-31.99	38.98	39.46	74	27.55	V

**Channel 157**

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)
17561.1	51.41	-26.85	45.25	33.01	68.2	16.79	H
17412.6	50.75	-26.85	45.25	32.35	68.2	17.45	V
13688	48.87	-29.5	40.43	37.94	68.2	19.33	V
14587.25	48.51	-27.29	41.9	33.9	68.2	19.69	H
11844.95	46.64	-31.85	39.05	39.44	74	27.36	V
11369.2	46.48	-32.42	38.79	40.11	74	27.52	H

**Channel 165**

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)
17384	50.86	-25.95	44.35	32.45	68.2	17.34	V
17560	50.57	-26.85	45.25	32.17	68.2	17.63	V
13691.85	49.07	-29.5	40.43	38.14	68.2	19.13	H
14525.65	49.03	-28.59	42.46	35.16	68.2	19.17	H
10846.15	46.54	-32.33	38.59	40.28	74	27.46	V
11772.9	46.47	-31.99	38.98	39.48	74	27.53	V

**802.11ac-HT40**
**Channel 151**

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)
17241	51.44	-25.95	44.35	33.03	68.2	16.76	V
17876.25	51.01	-25.5	46.66	29.85	74	22.99	V
13744.65	49.35	-29.1	40.86	37.58	68.2	18.85	H
13578	48.91	-29.5	40.43	37.98	68.2	19.29	V
11877.4	46.89	-31.85	39.05	39.69	74	27.11	H
10791.7	46.76	-32.33	38.59	40.5	74	27.24	H

**Channel 159**

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)
17597.95	51.3	-25.74	45.95	31.09	68.2	16.9	H
17343.85	50.72	-25.95	44.35	32.31	68.2	17.48	V
13523	48.64	-29.56	39.99	38.21	68.2	19.56	H
13667.1	48.57	-29.5	40.43	37.64	68.2	19.63	V
11278.45	47.1	-32.36	38.77	40.7	74	26.9	H
11355.45	46.96	-32.42	38.79	40.59	74	27.04	V

**802.11ac-HT80**
**Channel 155**

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)
17430.2	51.11	-26.85	45.25	32.71	68.2	17.09	V
17875.7	51.02	-25.5	46.66	29.86	74	22.98	H
13650.05	49.79	-29.5	40.43	38.86	68.2	18.41	V
13756.2	48.97	-29.1	40.86	37.2	68.2	19.23	V
11902.7	47.51	-31.85	39.05	40.31	74	26.49	V
11855.4	46.99	-31.85	39.05	39.79	74	27.01	H

## A.6. Band Edges Compliance

### A6.1 Band Edges - Radiated

#### Measurement Limit:

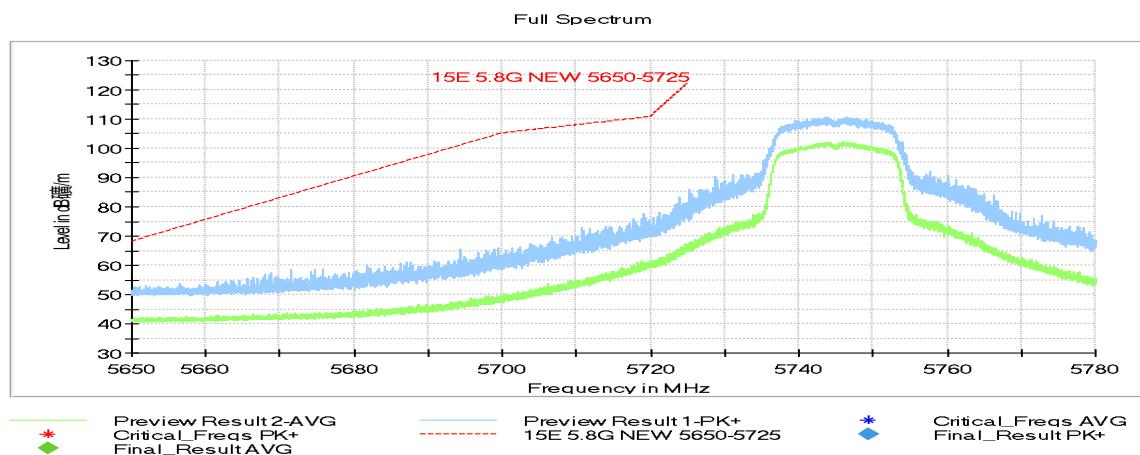
Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: increasing linearly from point to point.	

#### Measurement Result:

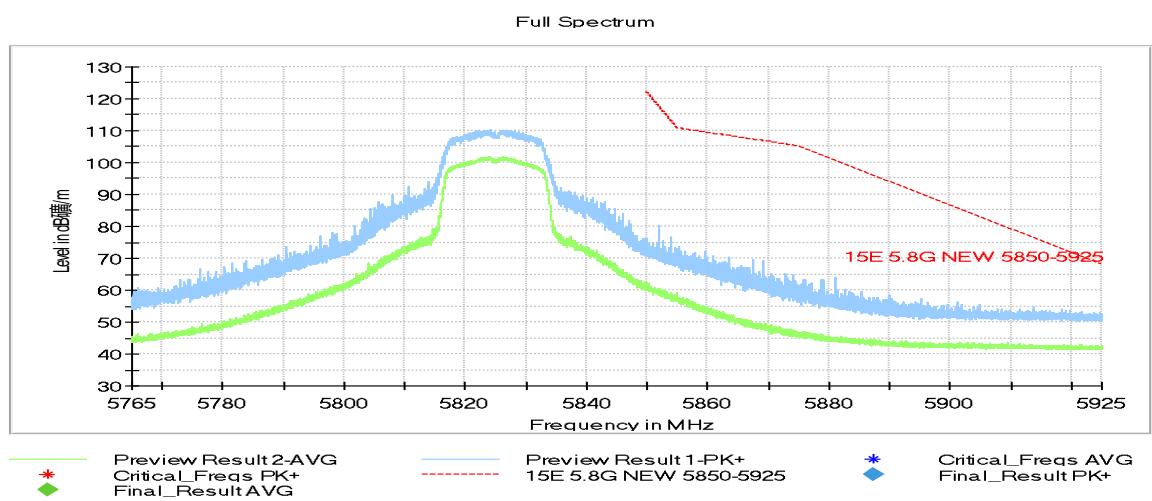
Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.10	P
	5825 MHz	Fig.11	P
802.11n HT20	5745 MHz	Fig.12	P
	5825 MHz	Fig.13	P
802.11n HT40	5755 MHz	Fig.14	P
	5795 MHz	Fig.15	P
802.11ac HT20	5745 MHz	Fig.16	P
	5825 MHz	Fig.17	P
802.11ac HT40	5755 MHz	Fig.18	P
	5795 MHz	Fig.19	P
802.11ac HT80	5775 MHz	Fig.20 Fig.21	P

**Conclusion: PASS**

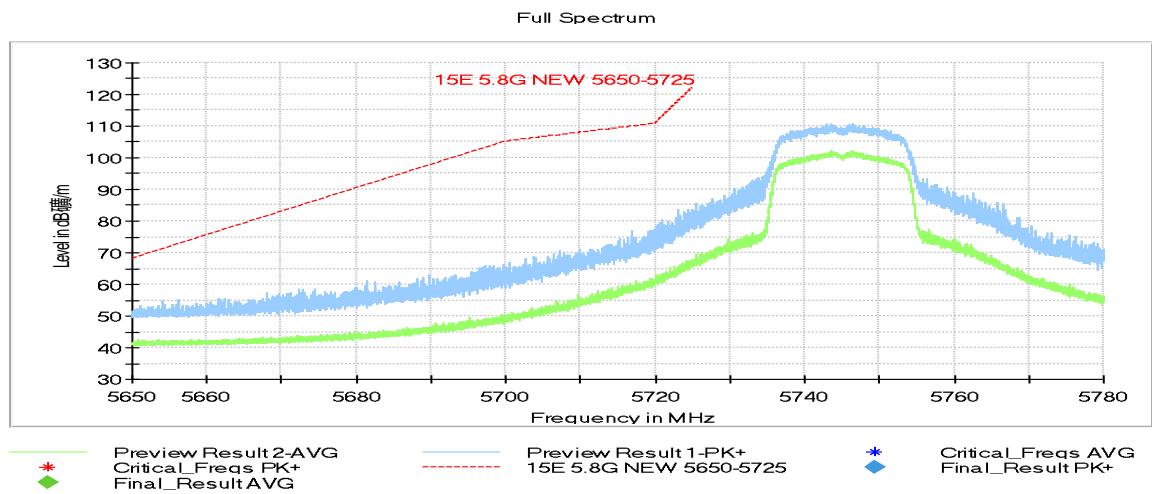
**Test graphs as below:**



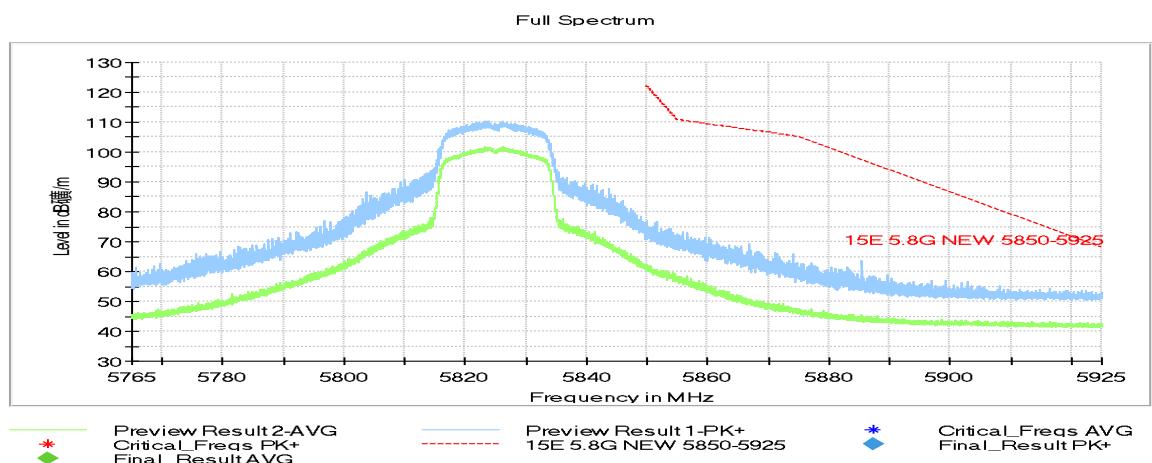
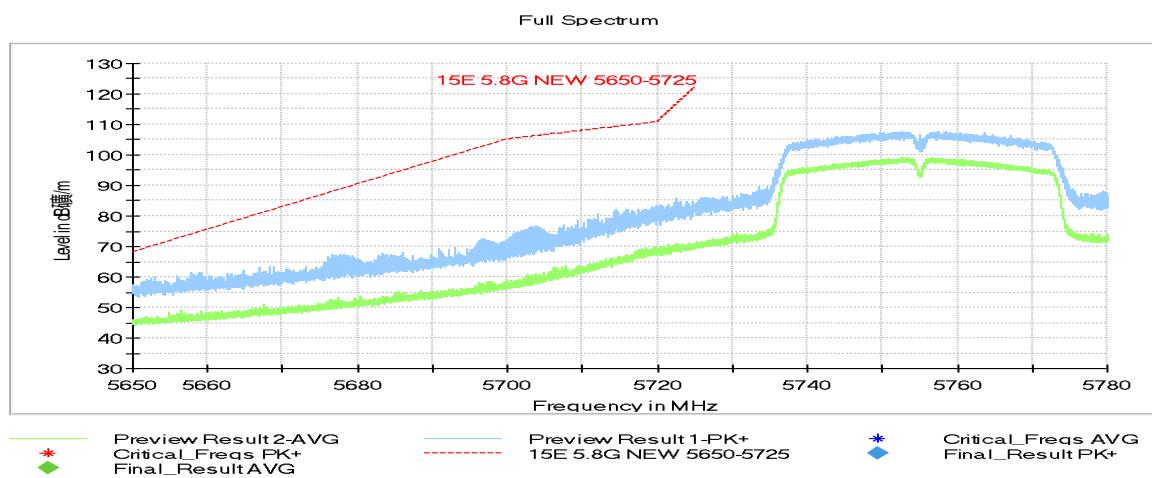
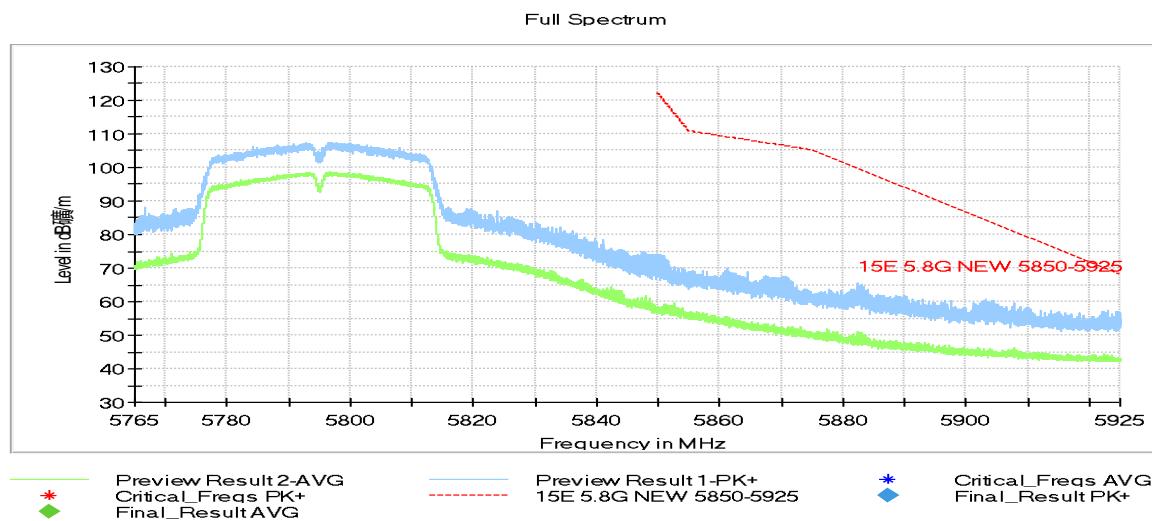
**Fig. 10 Band Edges (802.11a Ch149, 5745MHz)**

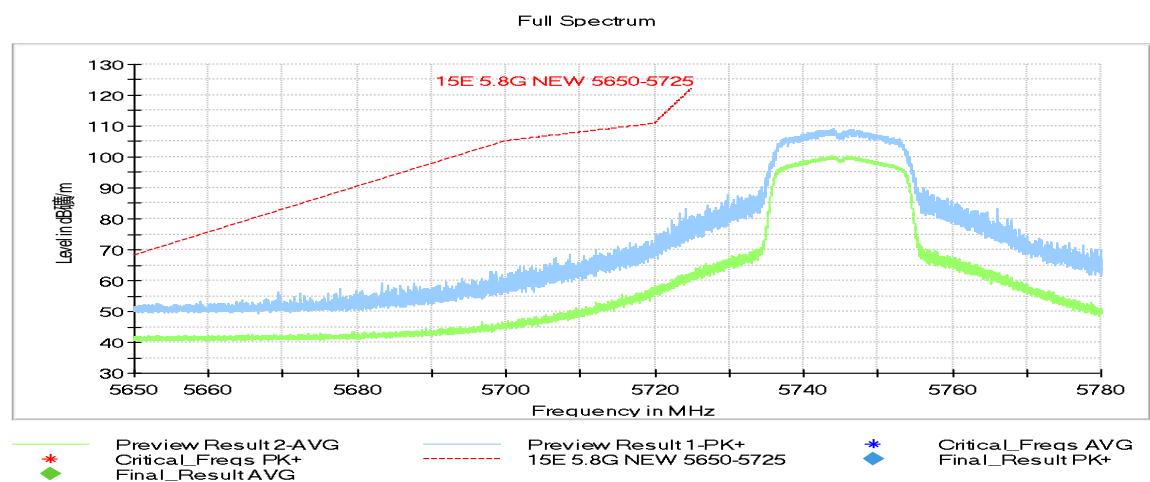


**Fig. 11 Band Edges (802.11a Ch165, 5825MHz)**

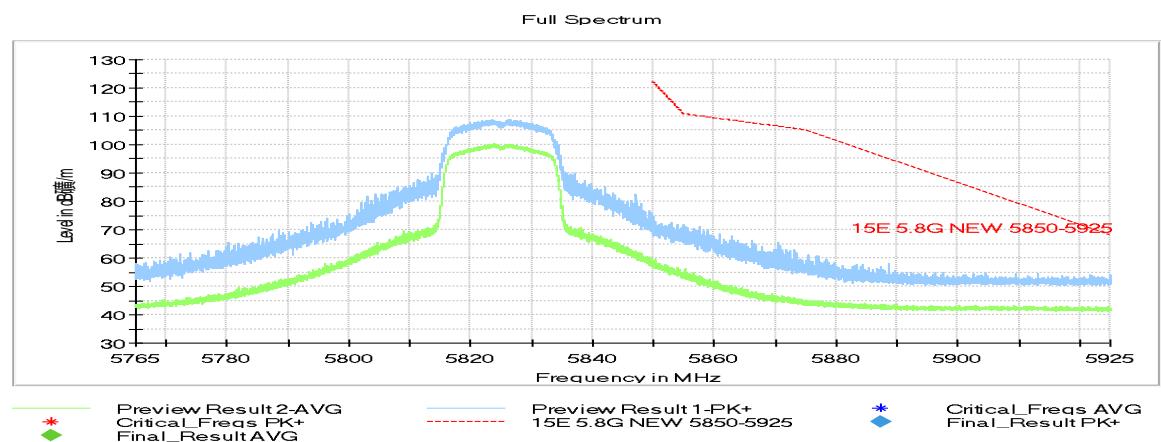


**Fig. 12 Band Edges (802.11n-HT20 Ch149, 5745MHz)**

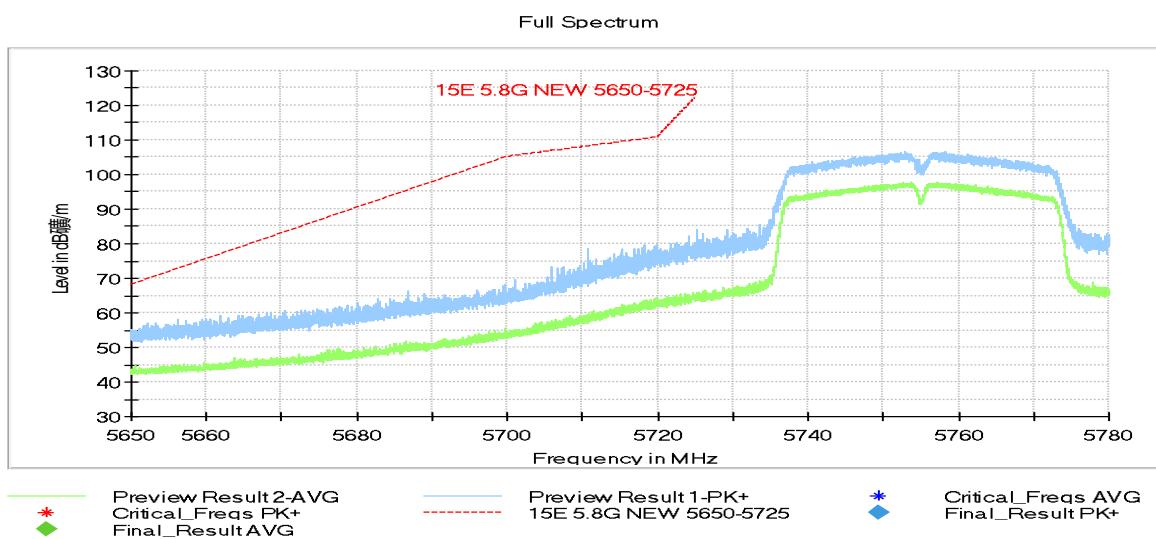

**Fig. 13 Band Edges (802.11n-HT20 Ch165, 5825MHz)**

**Fig. 14 Band Edges (802.11n-HT40 Ch151, 5755MHz)**

**Fig. 15 Band Edges (802.11n-HT40 Ch159, 5795MHz)**



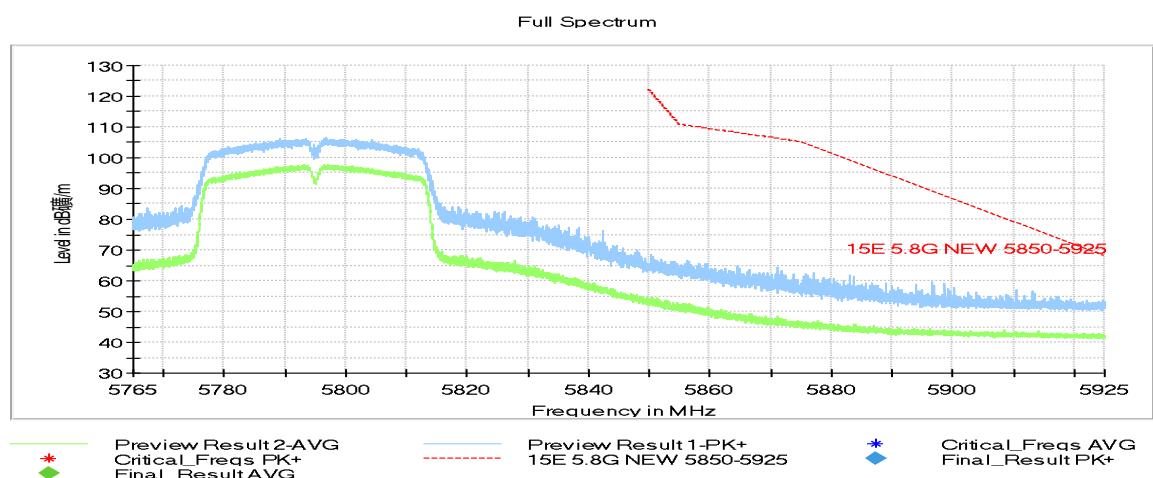
**Fig. 16 Band Edges (802.11ac-HT20 Ch149, 5745MHz)**



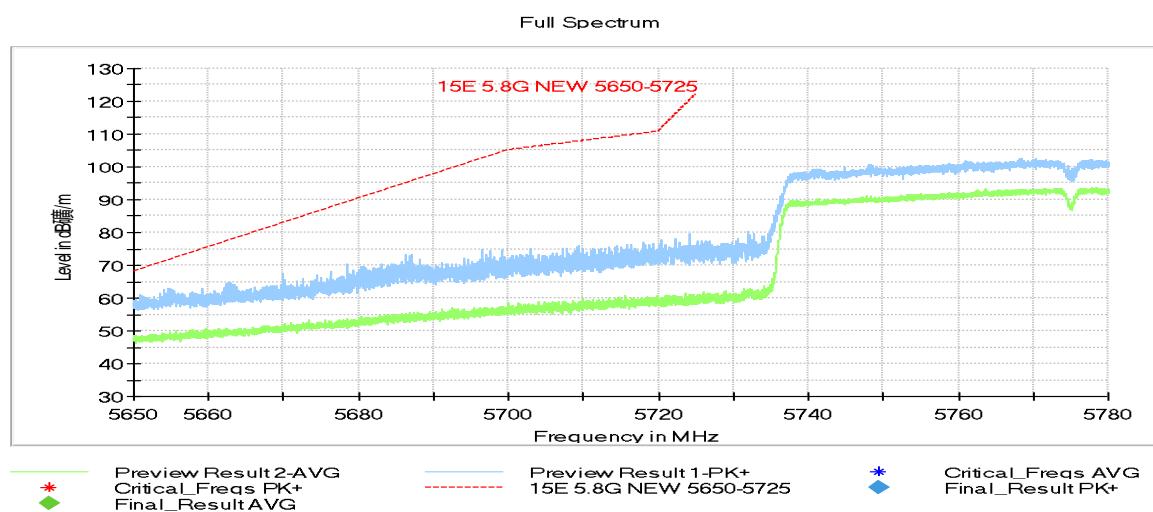
**Fig. 17 Band Edges (802.11ac-HT20 Ch165, 5825MHz)**



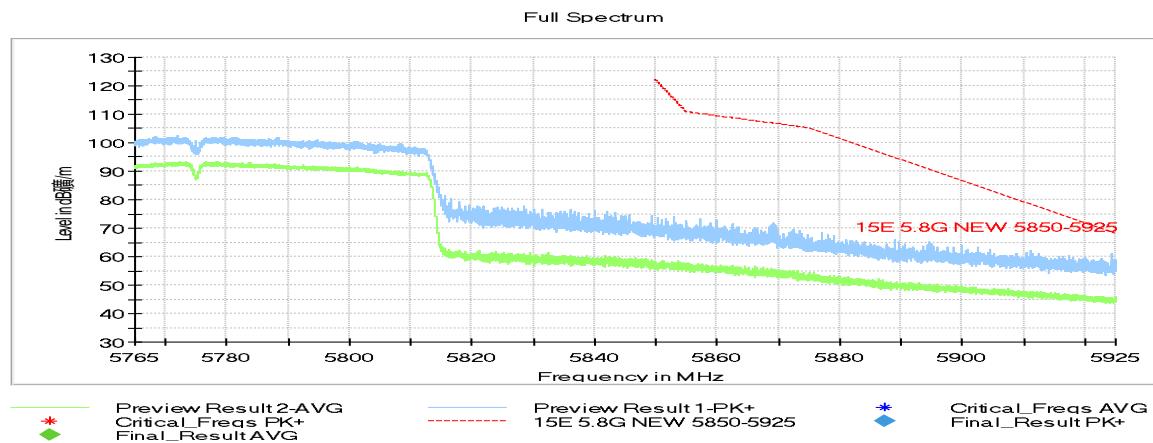
**Fig. 18 Band Edges (802.11ac-HT40 Ch151, 5755MHz)**



**Fig. 19 Band Edges (802.11ac-HT40 Ch159, 5795MHz)**



**Fig. 20 Band Edges (802.11ac-HT80 Ch155, 5775MHz)**



**Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)**

## A.7. AC Powerline Conducted Emission

### Test Condition:

Voltage (V)	Frequency (Hz)
120	60

### Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.08dB, k=2.

### Measurement Result and limit:

#### WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion	
		With charger AE1			
		802.11a	Idle		
0.15 to 0.5	66 to 56				
0.5 to 5	56			P	
5 to 30	60				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

#### WLAN (Average Limit)

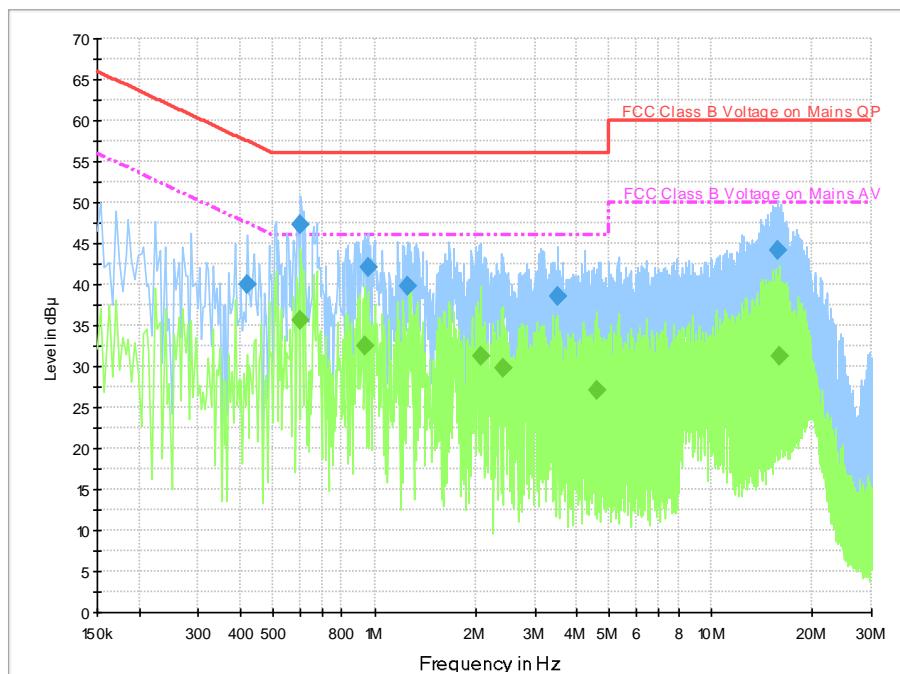
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion	
		With charger AE1			
		802.11a	Idle		
0.15 to 0.5	56 to 46				
0.5 to 5	46			P	
5 to 30	50				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10 .

**Conclusion: PASS**

**Test graphs as below:**

**Traffic:**

**Fig. 22 AC Power line Conducted Emission-802.11a**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

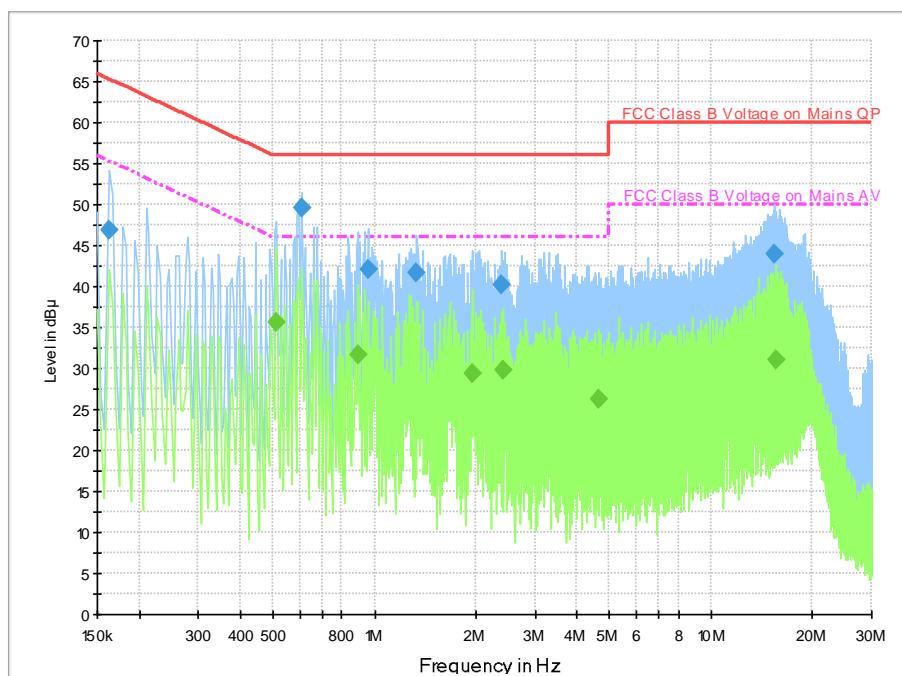
**Final Result 1**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.418000	40.0	2000.	9.000	On	N	19.7	17.4	57.5
0.602000	47.2	2000.	9.000	On	N	19.6	8.8	56.0
0.954000	42.1	2000.	9.000	On	L1	19.7	13.9	56.0
1.250000	39.8	2000.	9.000	On	L1	19.6	16.2	56.0
3.490000	38.5	2000.	9.000	On	L1	19.6	17.5	56.0
15.730000	44.1	2000.	9.000	On	L1	19.7	15.9	60.0

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.602000	35.5	2000.	9.000	On	N	19.6	10.5	46.0
0.938000	32.6	2000.	9.000	On	L1	19.7	13.4	46.0
2.062000	31.2	2000.	9.000	On	L1	19.6	14.8	46.0
2.398000	29.9	2000.	9.000	On	L1	19.6	16.1	46.0
4.562000	27.1	2000.	9.000	On	L1	19.6	18.9	46.0
15.894000	31.3	2000.	9.000	On	L1	19.7	18.7	50.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers if applicable.

**Idle:**

**Fig. 23 AC Power line Conducted Emission-Idle**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

### Final Result 1

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.162000	46.9	2000.	9.000	On	N	19.7	18.4	65.4
0.606000	49.5	2000.	9.000	On	L1	19.7	6.5	56.0
0.954000	42.2	2000.	9.000	On	L1	19.7	13.8	56.0
1.334000	41.8	2000.	9.000	On	L1	19.6	14.2	56.0
2.386000	40.2	2000.	9.000	On	L1	19.6	15.8	56.0
15.398000	44.0	2000.	9.000	On	L1	19.7	16.0	60.0

### Final Result 2

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.510000	35.7	2000.0	9.000	On	L1	19.7	10.3	46.0
0.890000	31.8	2000.0	9.000	On	L1	19.7	14.2	46.0
1.962000	29.3	2000.0	9.000	On	L1	19.6	16.7	46.0
2.402000	29.7	2000.0	9.000	On	L1	19.6	16.3	46.0
4.654000	26.3	2000.0	9.000	On	L1	19.6	19.7	46.0
15.530000	31.1	2000.0	9.000	On	L1	19.7	18.9	50.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers if applicable.

## ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

## ANNEX C: Accreditation Certificate



\*\*\* END OF REPORT BODY \*\*\*