

TEST REPORT

Reference No. : WTD24D09226785W005
FCC ID : 2AEPIBLACKCPLUS
Applicant : COLOMBIANA DE COMERCIO S.A.
Address : Car. 43E No 8-71, Medellin, Colombia
Manufacturer : Sichuan Koobee Communication Equipment Co., Ltd.
Address : 3 Floor, Building 2, 69 Gangyuan Road West Section, Lingang Development Zone, Yibin City, Sichuan Province, China
Product Name : Smart Phone
Model No. : Black C Plus
Brand Name : Kalley
Standards : FCC 47CFR Part 15 Section 15.407
Date of Receipt sample : 2024-10-08
Date of Test : 2024-10-09 to 2024-11-01
Date of Issue : 2024-11-07
Test Result : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD24D09226785W005	2024-10-08	2024-10-09 to 2024-11-01	2024-11-07	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product: Smart Phone
Model(s): Black C Plus
Model Description: The product has two configurations, single card and dual card, other parts are the same. The EUT is dual card in this report.
Test Sample No.: 1-1/1
Wi-Fi Specification: 5G-802.11a/ n(HT20/40)/ac(VHT20/40/80)
Hardware Version: KC58NS_01
Software Version: Kalley_BLACK_C_Plus_V03_20241014

4.2 Details of E.U.T.

Operation Frequency: 802.11a/n(HT20)/ac (VHT20):
U-NII-1: 5180-5240MHz, U-NII-2A: 5260-5320MHz(DFS),
U-NII-2C: 5500-5700MHz(DFS), U-NII-3: 5745-5825MHz
802.11n(HT40)/ac (VHT40):
U-NII-1: 5190-5230MHz, U-NII-2A: 5270-5310MHz(DFS),
U-NII-2C: 5510-5670MHz(DFS), U-NII-3: 5755-5795MHz
802.11ac (VHT80):
U-NII-1: 5210MHz, U-NII-2A: 5290MHz(DFS),
U-NII-2C: 5530-5610MHz(DFS), U-NII-3: 5775MHz
Max. RF output power:
U-NII-1: 16.01dBm
U-NII-2A: 16.22dBm
U-NII-2C: 17.20dBm
U-NII-3: 15.62dBm
Type of Modulation: OFDM
Antenna installation: Internal antenna
Antenna Gain: -1.2dBi
Note:
#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.
Ratings: Battery: DC 3.87V, 4900mAh, 18.96Wh
DC 5.0V, 2.0A charging from adapter
Adapter: Model No.: UT-681A-5200MY
Input: 100-240V~, 50/60Hz, 0.35A
Output: 5.0V=2.0A, 10.0W

4.3 Channel List

U-NII-1 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	42	5210
44	5220	46	5230
48	5240		

U-NII-2A (5.25-5.35GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	54	5270
56	5280	58	5290
60	5300	62	5310
64	5320		

U-NII-2C (5.47-5.725GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	102	5510
104	5520	106	5530
108	5540	110	5550
112	5560	116	5580
118	5590	120	5600
122	5610	124	5620
126	5630	128	5640
132	5660	134	5670
136	5680	140	5700

U-NII-3 (5.725-5.85GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	151	5755
153	5765	155	5775
157	5785	159	5795
161	5805	165	5825

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n/ac(VHT20):

channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	40	5200
48	5240		

channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	56	5280
64	5320		

channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	120	5600
140	5700		

channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	157	5785
165	5825		

For 802.11n/ac(VHT40):

channel	Frequency(MHz)	channel	Frequency(MHz)
38	5190	46	5230

channel	Frequency(MHz)	channel	Frequency(MHz)
54	5270	62	5310

channel	Frequency(MHz)	channel	Frequency(MHz)
102	5510	110	5550
134	5670		

channel	Frequency(MHz)	channel	Frequency(MHz)
151	5755	159	5795

For 802.11ac(VHT80):

channel	Frequency(MHz)	channel	Frequency(MHz)
42	5210		

channel	Frequency(MHz)	channel	Frequency(MHz)
58	5290		

channel	Frequency(MHz)	channel	Frequency(MHz)
106	5530	122	5610

channel	Frequency(MHz)	channel	Frequency(MHz)
155	5775		

4.4 Test Mode Description

During testing, Channel and Power Controlling Software provided by the applicant was used to control the operating channel as well as the maximum output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Transmitting duty cycle is no less 98%.

The software is TermAssist and SecureCRT tool Use together.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
Duty Cycle	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
Band Edge	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
6dB Bandwidth	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
Conducted Output Power	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
Power Spectral Density	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
Frequency Stability	Un-modulation	/	TX

4.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	2024-07-18	2025-07-17
2.	LISN	R&S	ENV216	100115	2024-07-18	2025-07-17
3.	Cable	Top	TYPE16(3.5M)	-	2024-07-18	2025-07-17
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP30	100091	2024-04-22	2025-04-21
2	Amplifier	Agilent	8447D	2944A10178	2024-07-18	2025-07-17
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2024-07-21	2025-07-20
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2024-04-22	2025-04-21
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2024-01-23	2025-01-22
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2024-07-18	2025-07-17
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2024-07-18	2025-07-17
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2024-04-22	2025-04-21
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2024-04-22	2025-04-21
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2023-11-04	2024-11-03
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2024-04-27	2025-04-26
4	Amplifier	ANRITSU	MH648A	M43381	2024-04-22	2025-04-21
5	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22	2025-04-21
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer	R&S	FSP40	100501	2024-07-18	2025-07-17
2.	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2024-04-22	2025-04-21

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a)	PASS
Radiated Emissions	15.407(a) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS
6dB Bandwidth	15.407(a)	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Restricted bands around fundamental frequency	15.407(a)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

7 Duty cycle

	FCC 47CFR Part 15 Section 15.407 KDB789033 D02 General U-NII Test Procedures New Rules v02r01, Section (B)
Test Requirement:	
Test Method:	ANSI C63.10: 2013
Test Limit:	N/A
Test Result:	PASS
Remark:	Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.

7.1 Summary of Test Results

Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
U-NII-1 802.11a	1.375	1.430	0.96	96.15	0.17	-0.34
U-NII-1 802.11n(HT20)	1.285	1.345	0.96	95.54	0.20	-0.40
U-NII-1 802.11n(HT40)	0.646	0.692	0.93	93.35	0.30	-0.60
U-NII-1 802.11ac(VHT20)	1.300	1.360	0.96	95.59	0.20	-0.39
U-NII-1 802.11ac(VHT40)	0.650	0.696	0.93	93.39	0.30	-0.59
U-NII-1 802.11ac(VHT80)	0.322	0.368	0.88	87.50	0.58	-1.16
U-NII-2A 802.11a	1.386	1.437	0.96	96.45	0.16	-0.31
U-NII-2A 802.11n(HT20)	1.294	1.349	0.96	95.92	0.18	-0.36
U-NII-2A 802.11n(HT40)	0.644	0.692	0.93	93.06	0.31	-0.62
U-NII-2A 802.11ac(VHT20)	1.302	1.357	0.96	95.95	0.18	-0.36
U-NII-2A 802.11ac(VHT40)	0.648	0.696	0.93	93.10	0.31	-0.62
U-NII-2A 802.11ac(VHT80)	0.322	0.368	0.88	87.50	0.58	-1.16
U-NII-2C 802.11a	1.380	1.435	0.96	96.17	0.17	-0.34
U-NII-2C 802.11n(HT20)	1.290	1.345	0.96	95.91	0.18	-0.36
U-NII-2C 802.11n(HT40)	0.644	0.692	0.93	93.06	0.31	-0.62
U-NII-2C 802.11ac(VHT20)	1.305	1.360	0.96	95.96	0.18	-0.36
U-NII-2C 802.11ac(VHT40)	0.646	0.694	0.93	93.08	0.31	-0.62
U-NII-2C 802.11ac(VHT80)	0.323	0.369	0.88	87.53	0.58	-1.16

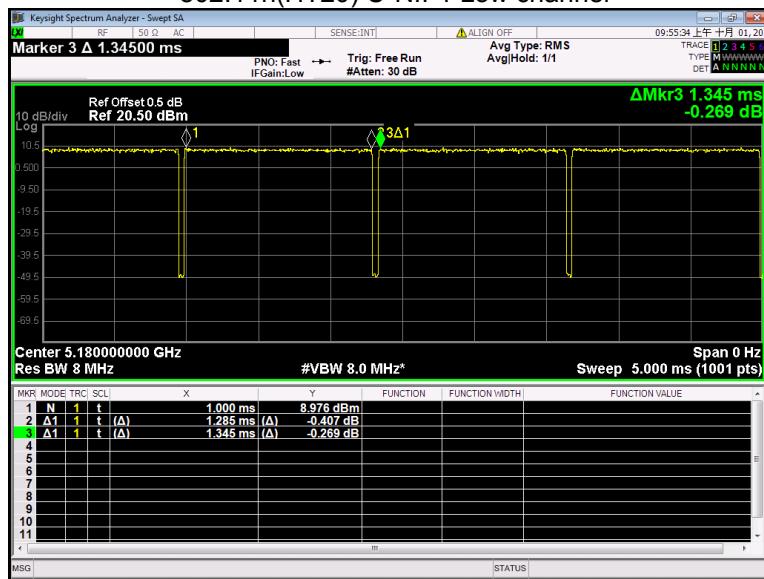
U-NII-3 802.11a	1.380	1.444	0.96	95.57	0.20	-0.39
U-NII-3 802.11n(HT20)	1.296	1.348	0.96	96.14	0.17	-0.34
U-NII-3 802.11n(HT40)	0.646	0.692	0.93	93.35	0.30	-0.60
U-NII-3 802.11ac(VHT20)	1.304	1.356	0.96	96.17	0.17	-0.34
U-NII-3 802.11ac(VHT40)	0.647	0.696	0.93	92.96	0.32	-0.63
U-NII-3 802.11ac(VHT80)	0.321	0.368	0.87	87.23	0.59	-1.19

Test result plots shown as follows:

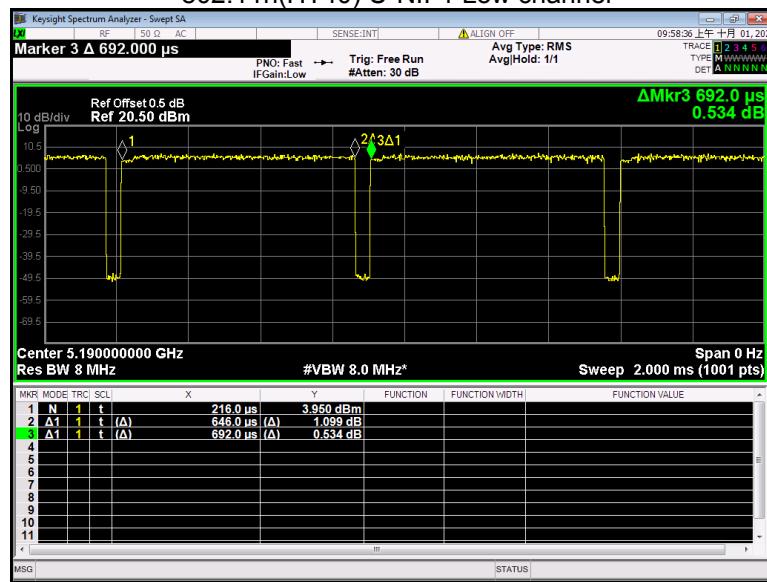
802.11a U-NII-1 Low channel



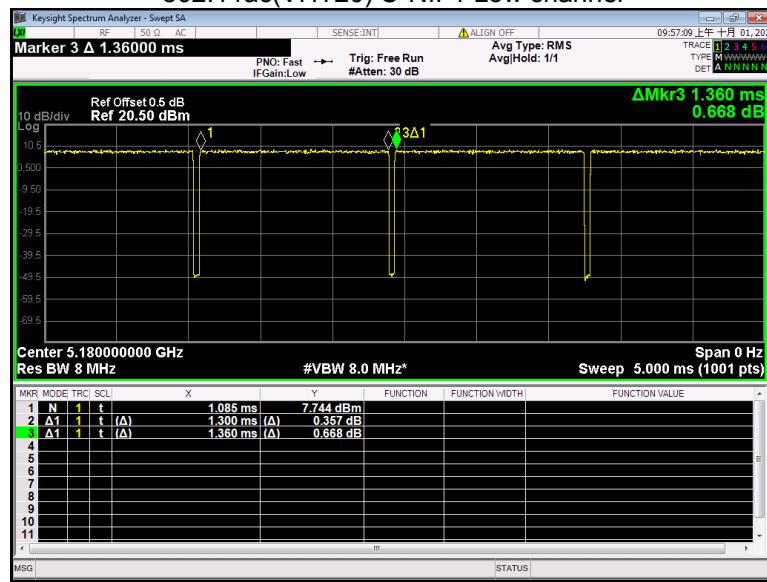
802.11n(HT20) U-NII-1 Low channel



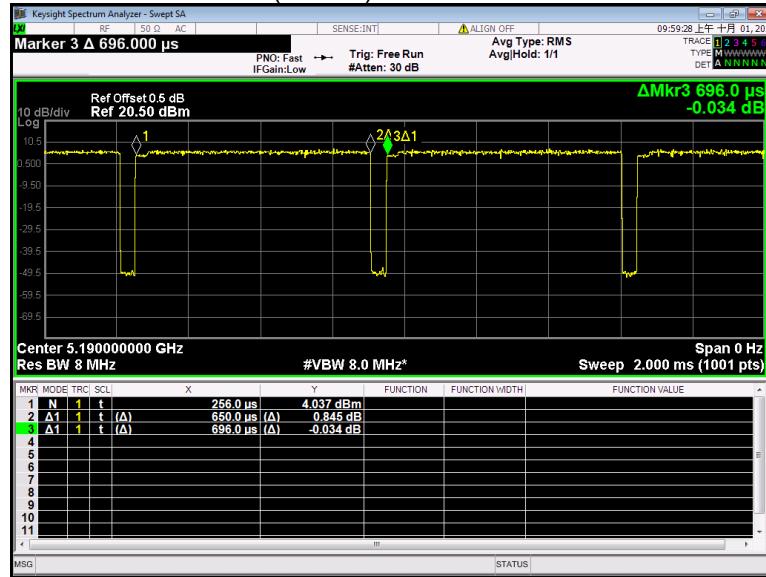
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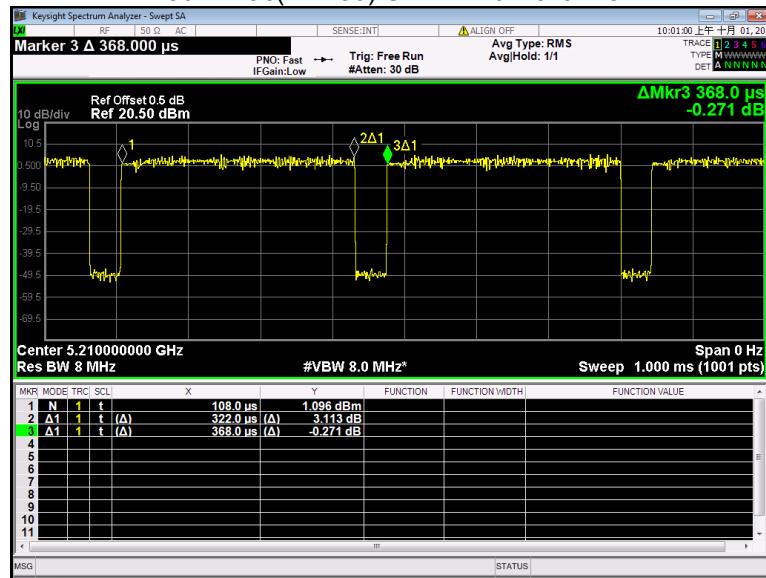
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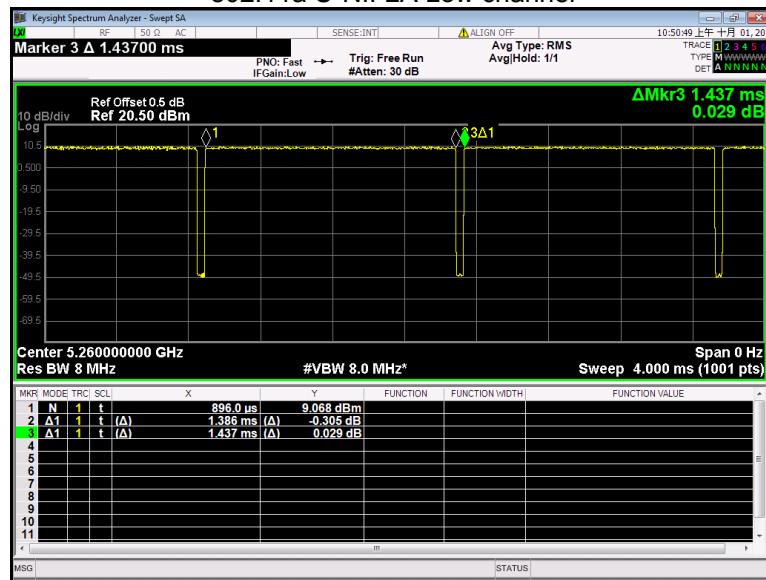
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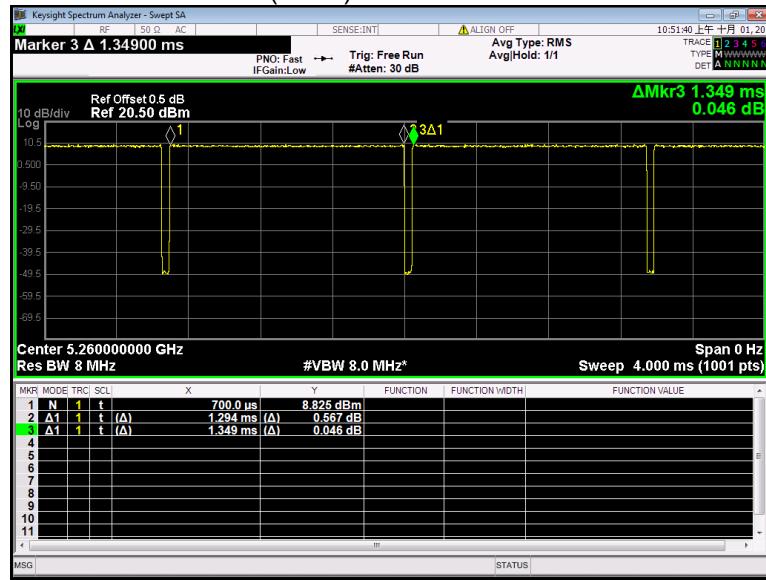
802.11ac(VHT80) U-NII-1 Low channel



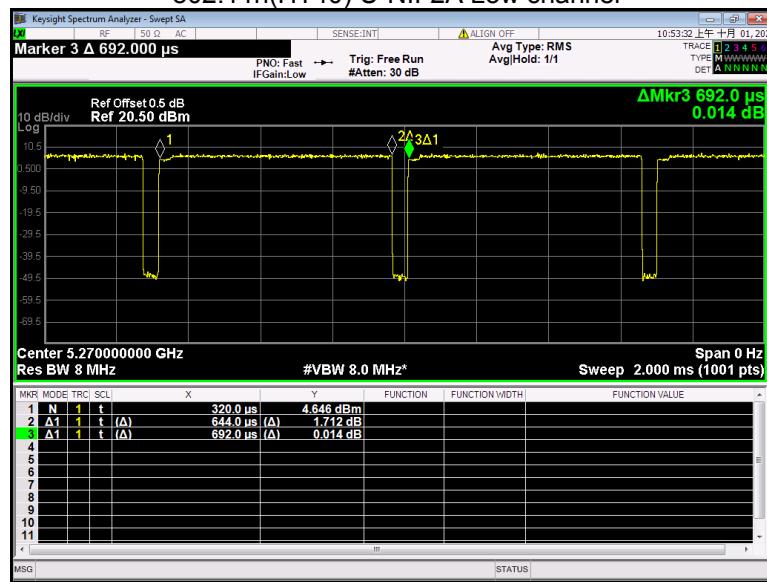
802.11a U-NII-2A Low channel



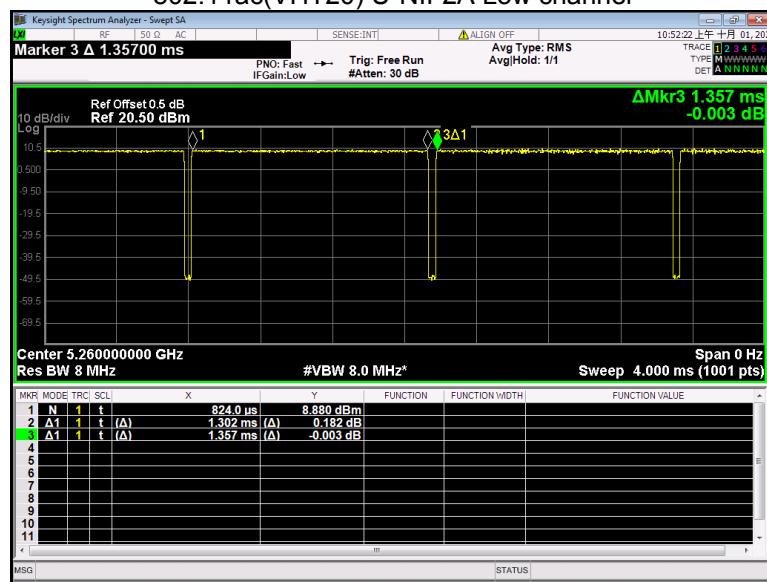
802.11n(HT20) U-NII-2A Low channel



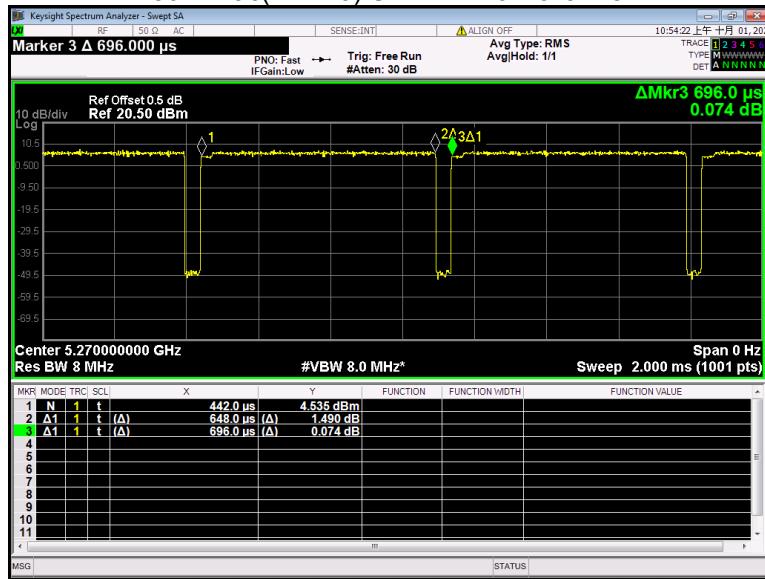
802.11n(HT40) U-NII-2A Low channel



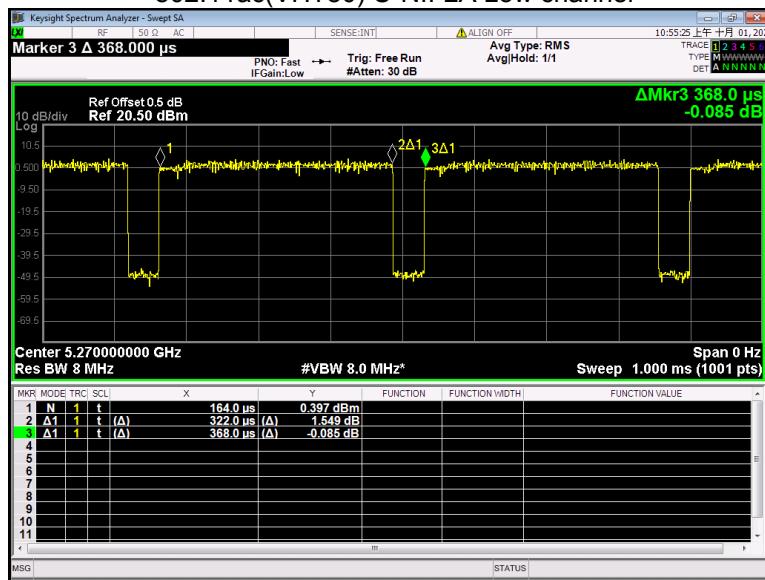
802.11ac(VHT20) U-NII-2A Low channel



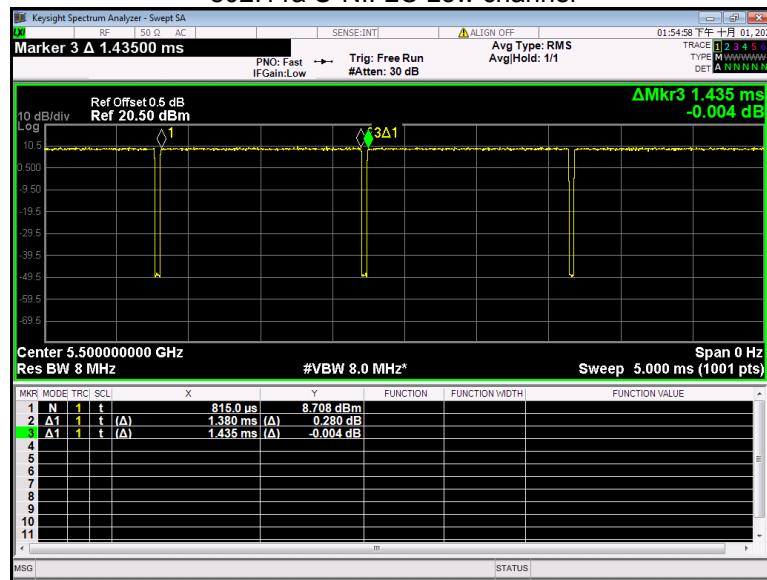
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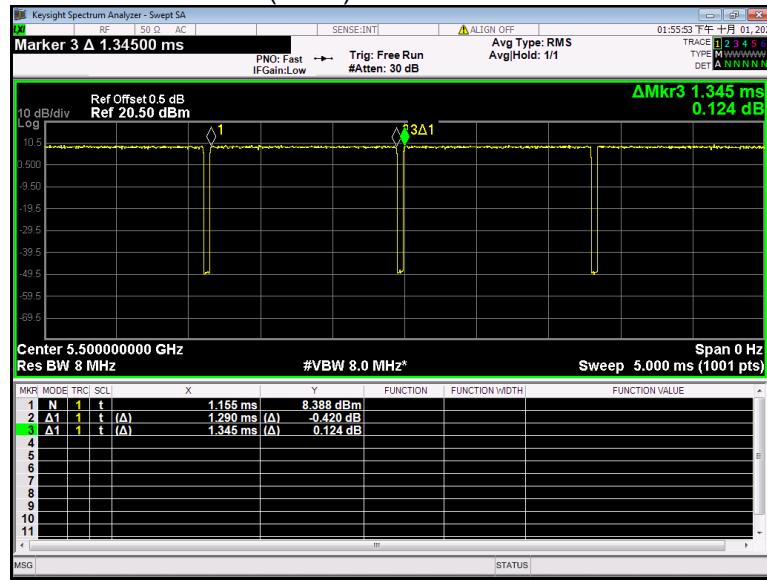
802.11ac(VHT80) U-NII-2A Low channel



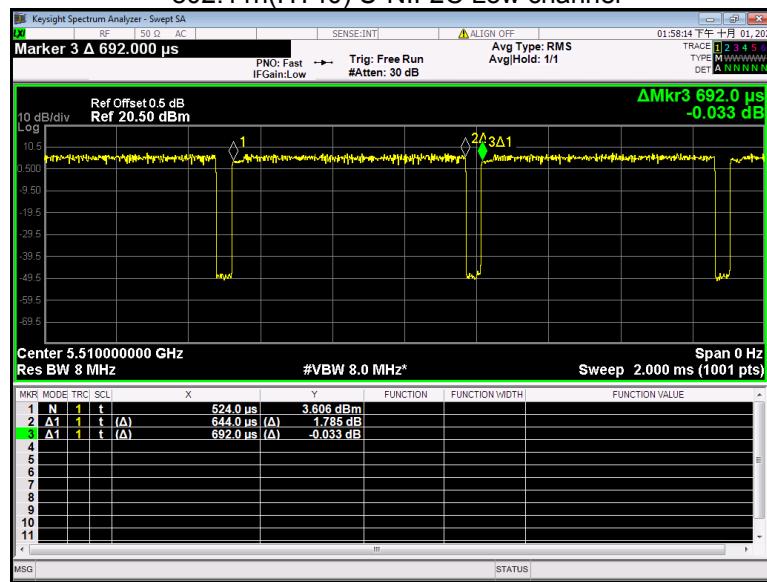
802.11a U-NII-2C Low channel



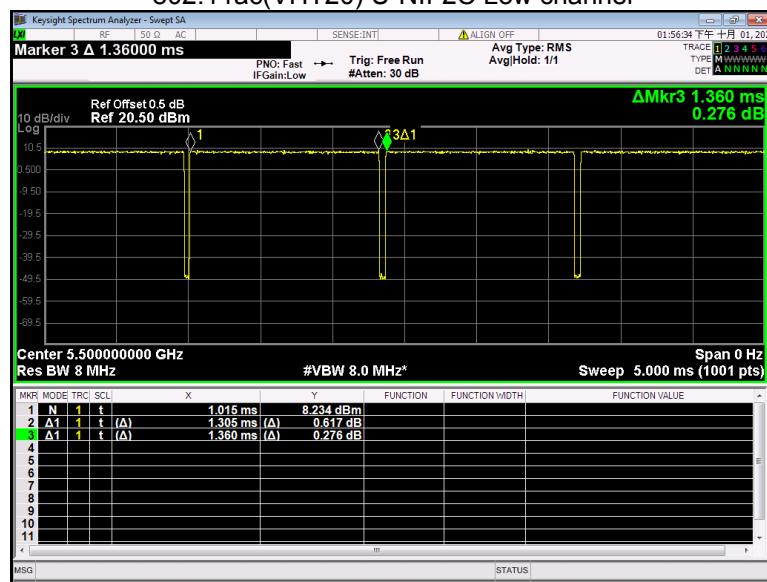
802.11n(HT20) U-NII-2C Low channel



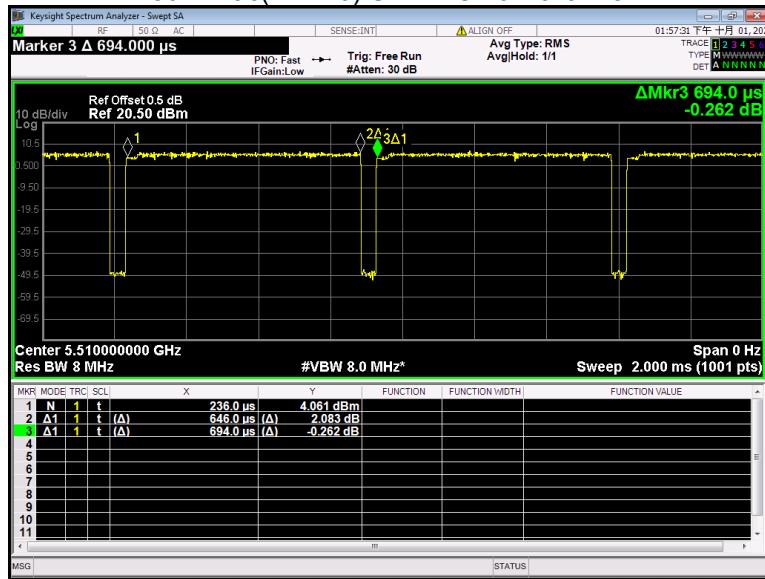
802.11n(HT40) U-NII-2C Low channel



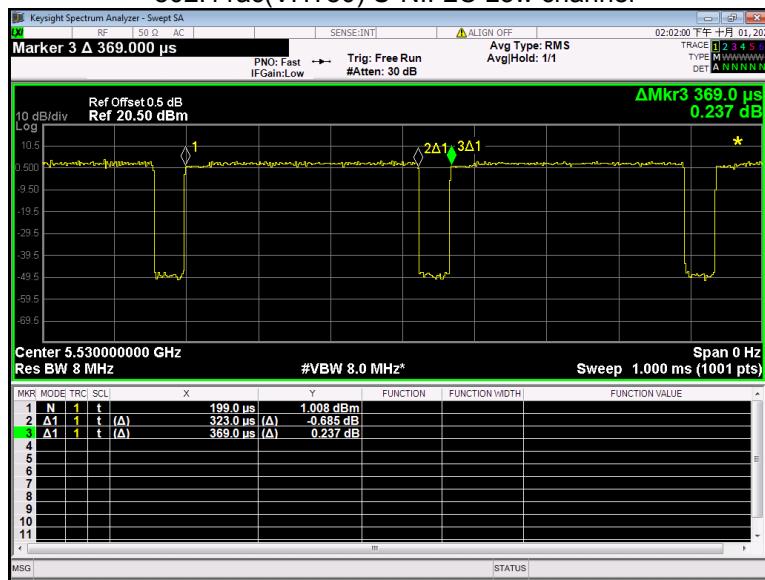
802.11ac(VHT20) U-NII-2C Low channel



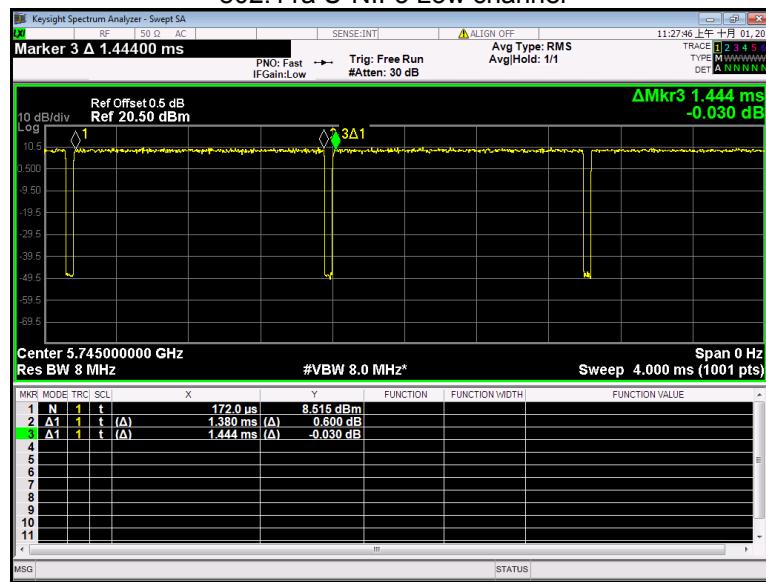
802.11ac(VHT40) U-NII-2C Low channel



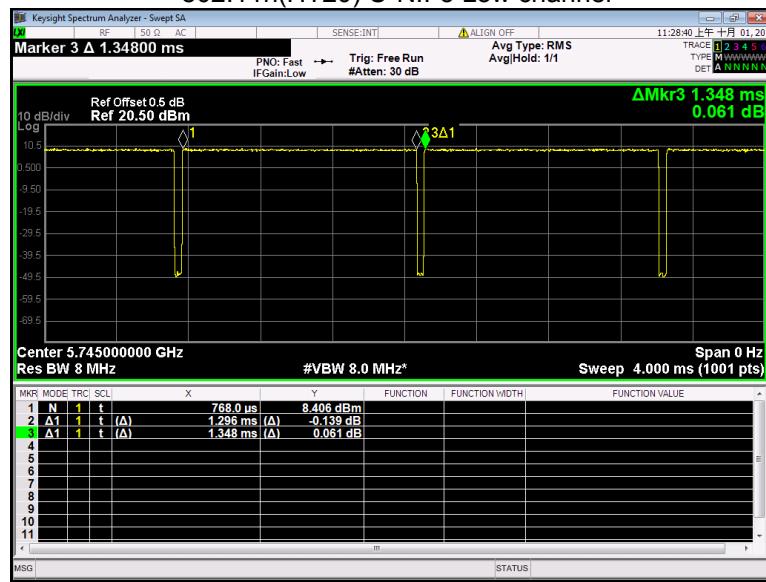
802.11ac(VHT80) U-NII-2C Low channel



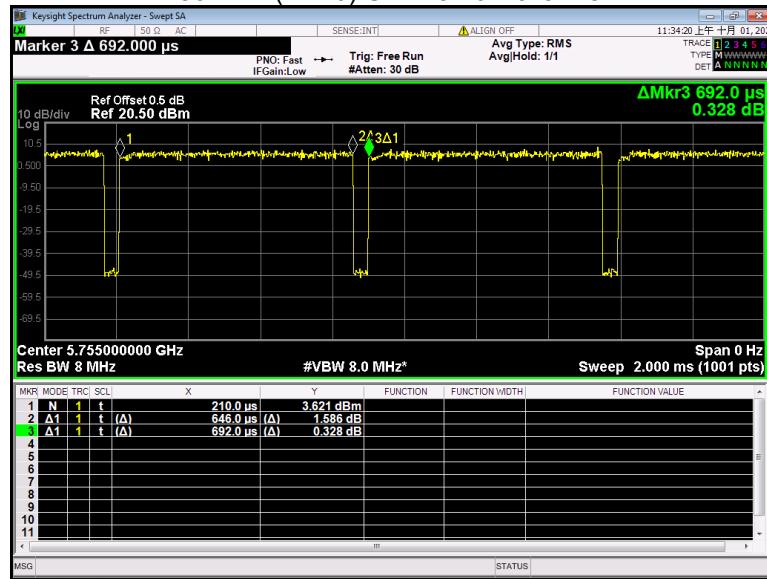
802.11a U-NII-3 Low channel



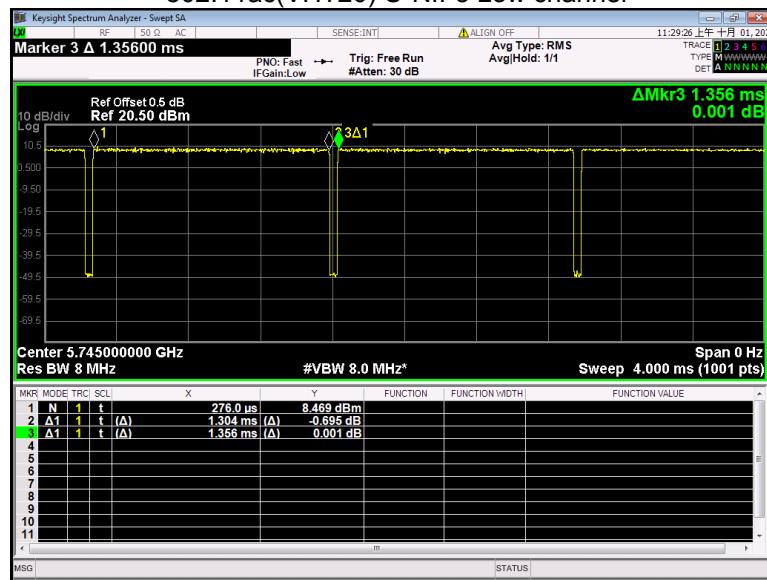
802.11n(HT20) U-NII-3 Low channel



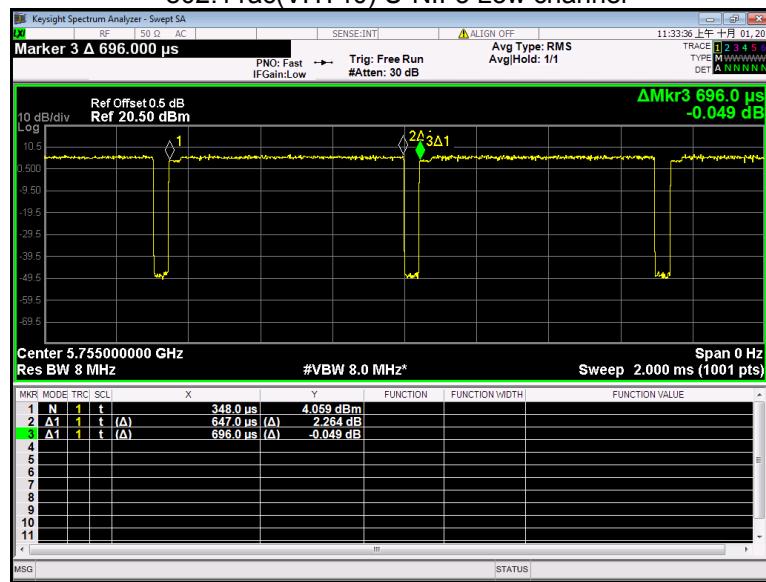
802.11n(HT40) U-NII-3 Low channel



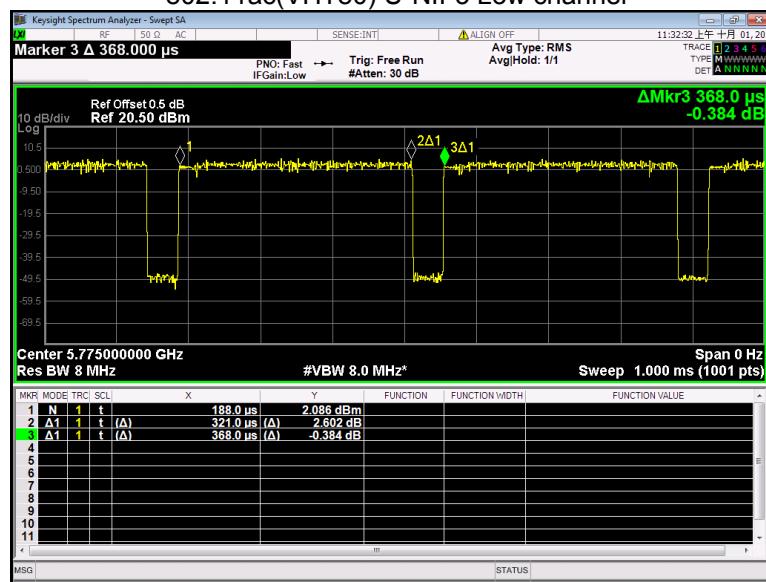
802.11ac(VHT20) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT80) U-NII-3 Low channel



8 Conducted Emission

Test Requirement: FCC 47CFR Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Limit:

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

8.1 E.U.T. Operation

Operating Environment :

Temperature: 25.9°C

Humidity: 42.4%RH

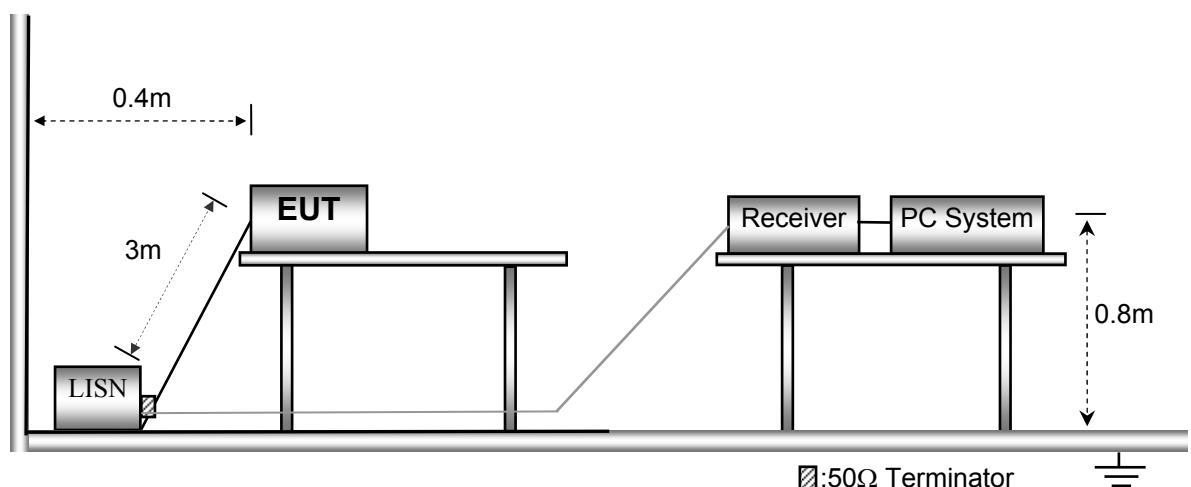
Atmospheric Pressure: 101.1kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



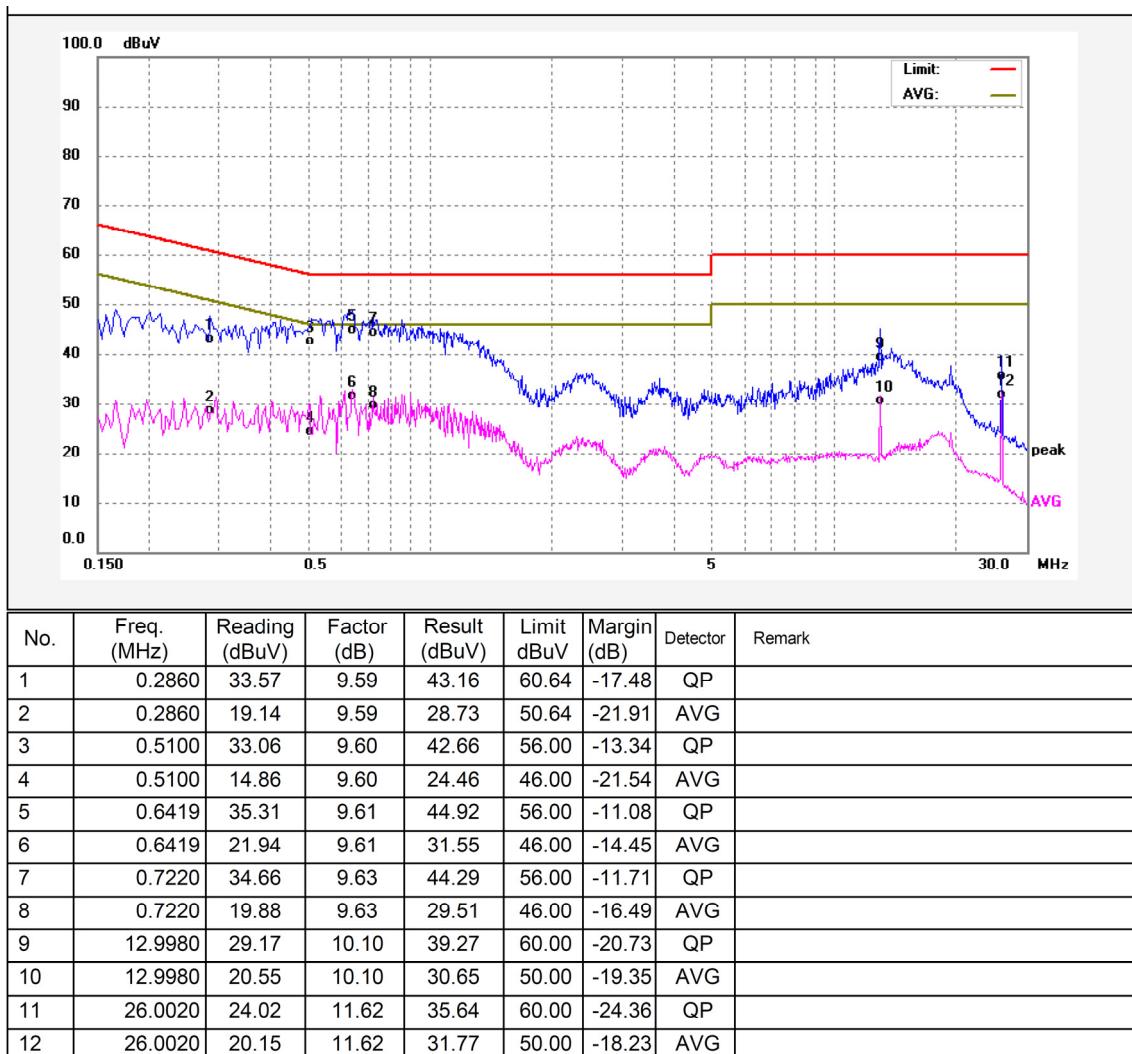
8.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

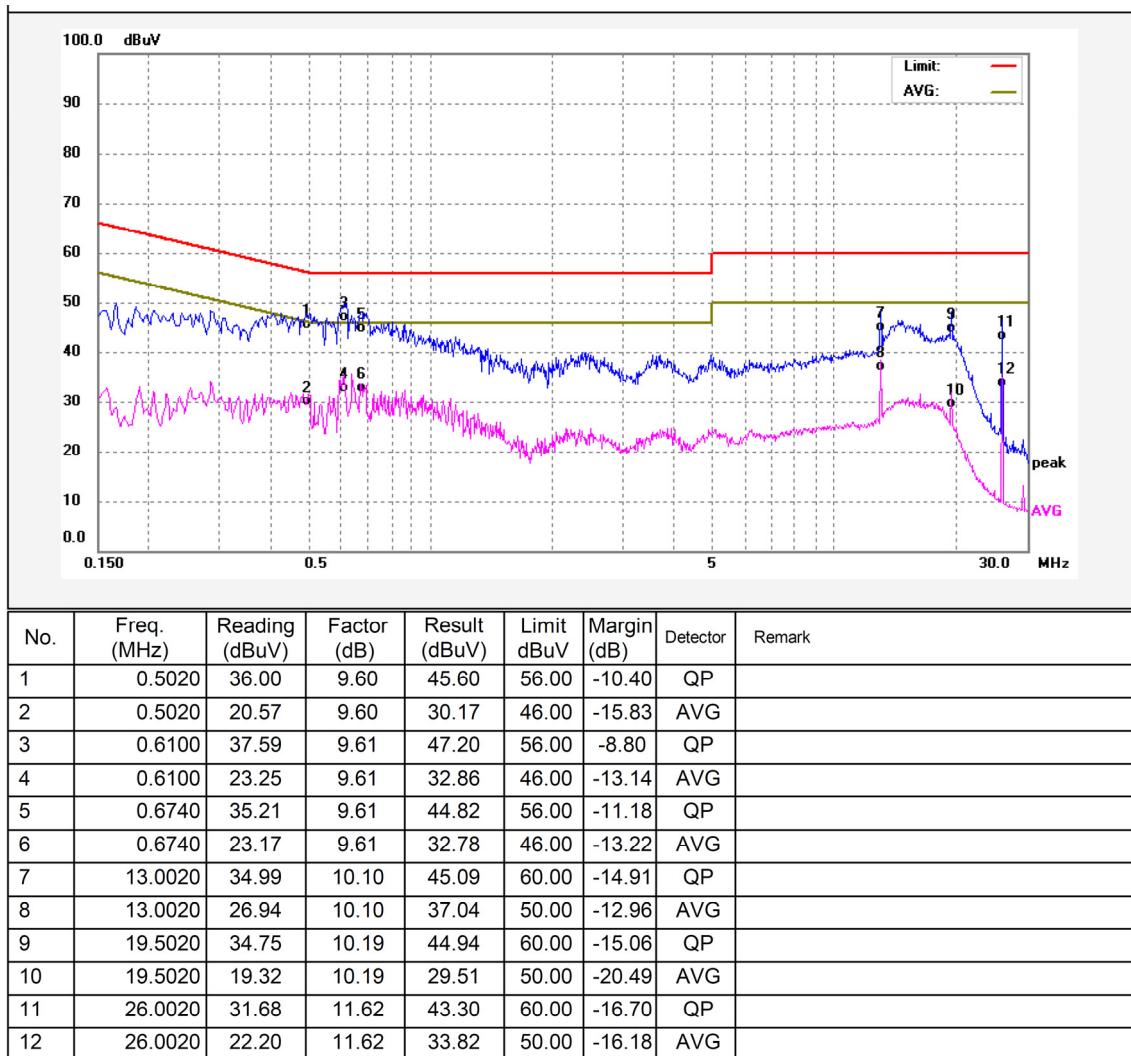
8.4 Conducted Emission Test Result

Remark: only the worst data (U-NII-1 802.11a High channel mode) were reported

Live line:



Neutral line:



9 Radiated Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.209 & 15.407

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Distance	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

9.1 EUT Operation

Operating Environment :

Temperature: 27.1 °C

Humidity: 41.5 % RH

Atmospheric Pressure: 101.1kPa

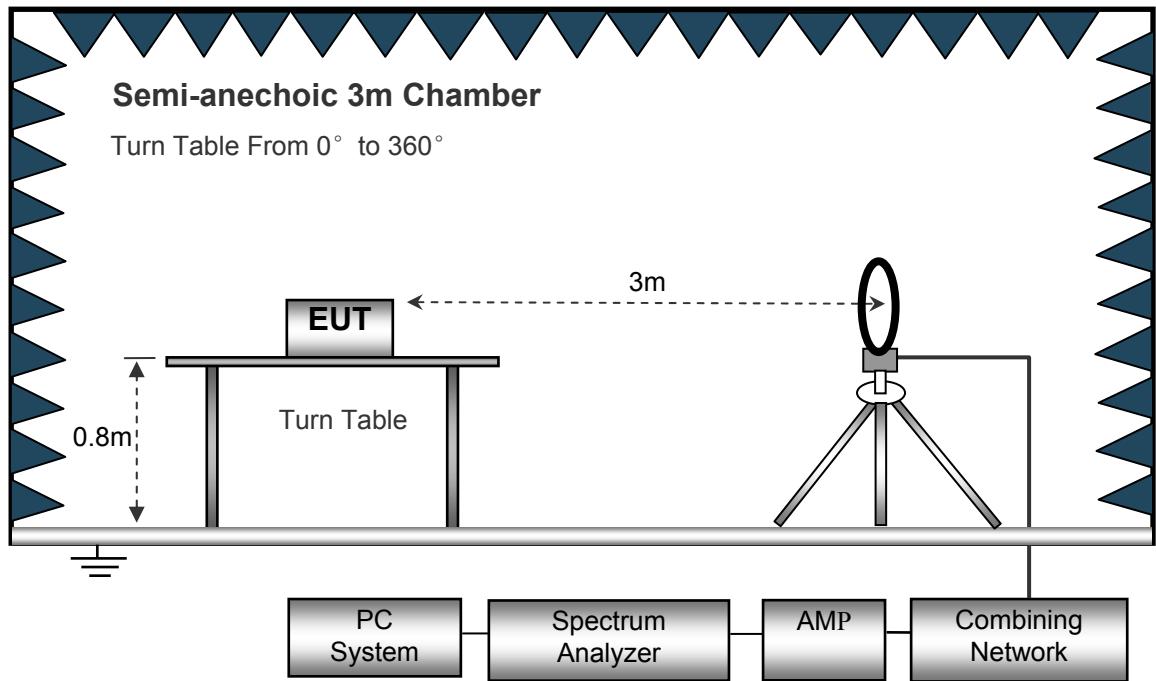
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

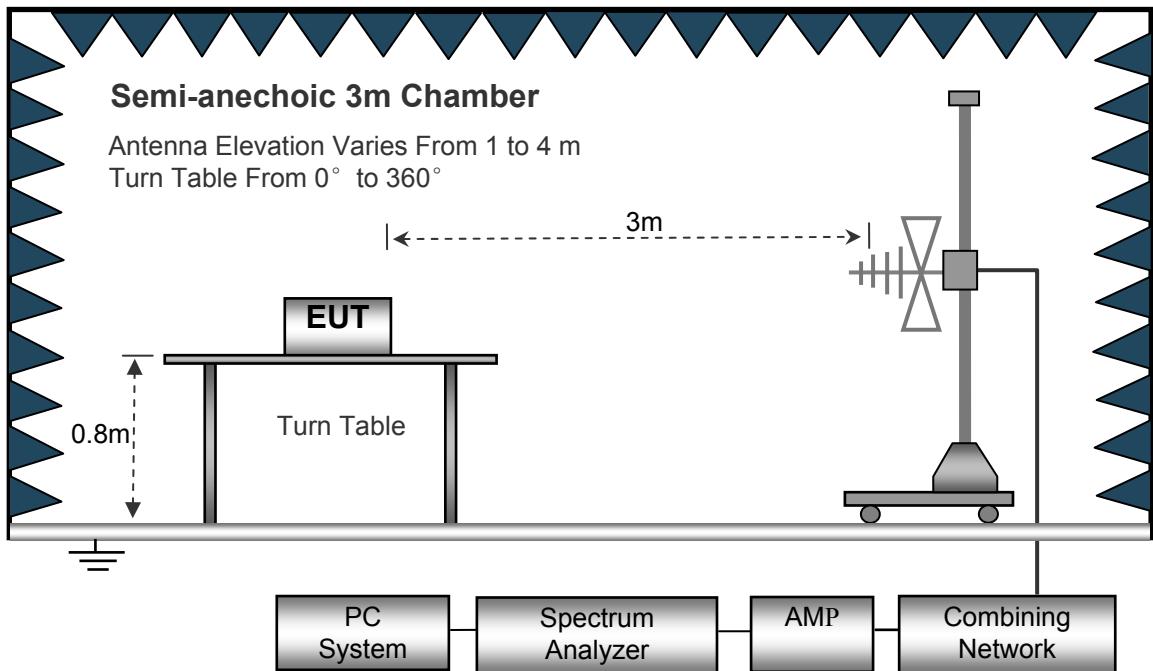
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013.

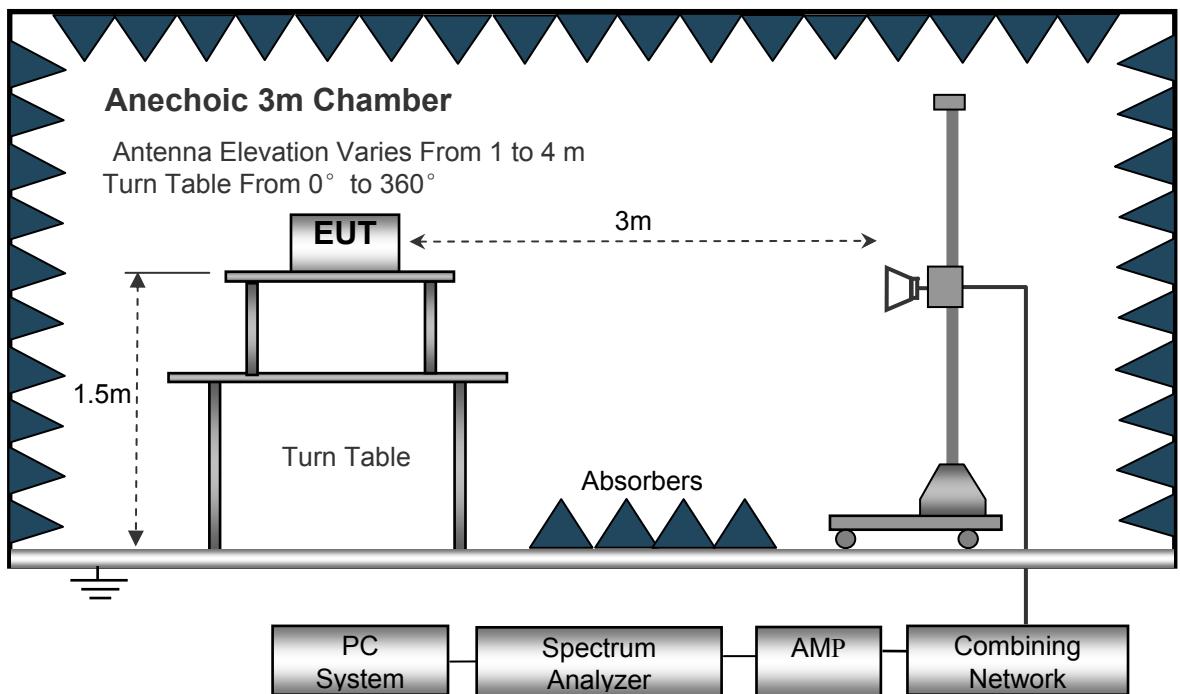
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



9.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed	Auto
IF Bandwidth.....	10kHz
Video Bandwidth.....	10kHz
Resolution Bandwidth.....	10kHz

30MHz ~ 1GHz

Sweep Speed	Auto
Detector	PK
Resolution Bandwidth.....	100kHz
Video Bandwidth.....	300kHz

Above 1GHz

Sweep Speed	Auto
Detector	PK
Resolution Bandwidth.....	1MHz
Video Bandwidth.....	3MHz
Detector	Ave.
Resolution Bandwidth.....	1MHz
Video Bandwidth.....	10Hz

9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

9.6 Summary of Test Results

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11a U-NII-1 Low Channel 5180MHz									
302.57	42.30	QP	244	1.3	H	-11.62	30.68	46.00	-15.32
302.57	47.11	QP	148	1.1	V	-11.62	35.49	46.00	-10.51
4537.23	53.68	PK	199	1.2	H	-2.03	51.65	74.00	-22.35
4537.23	44.21	Ave	199	1.2	H	-2.03	42.18	54.00	-11.82
5133.19	53.50	PK	315	1.9	H	-1.02	52.48	74.00	-21.52
5133.19	44.55	Ave	315	1.9	H	-1.02	43.53	54.00	-10.47
10360.00	41.61	PK	327	1.0	H	5.33	46.94	74.00	-27.06
10360.00	36.98	Ave	327	1.0	H	5.33	42.31	54.00	-11.69
802.11a U-NII-1 Middle channel 5200MHz									
302.57	41.38	QP	136	1.4	H	-11.62	29.76	46.00	-16.24
302.57	46.82	QP	221	1.5	V	-11.62	35.20	46.00	-10.80
4513.30	53.08	PK	232	1.6	H	-1.94	51.14	74.00	-22.86
4513.30	44.86	Ave	232	1.6	H	-1.94	42.92	54.00	-11.08
5140.62	54.12	PK	252	1.7	H	-1.06	53.06	74.00	-20.94
5140.62	46.40	Ave	252	1.7	H	-1.06	45.34	54.00	-8.66
10400.00	40.34	PK	282	1.6	H	5.21	45.55	74.00	-28.45
10400.00	36.53	Ave	282	1.6	H	5.21	41.74	54.00	-12.26

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11a U-NII-1 High channel 5240MHz									
302.57	40.40	QP	261	1.7	H	-11.62	28.78	46.00	-17.22
302.57	46.14	QP	56	1.5	V	-11.62	34.52	46.00	-11.48
4518.46	54.55	PK	270	1.3	H	-2.24	52.31	74.00	-21.69
4518.46	44.07	Ave	270	1.3	H	-2.24	41.83	54.00	-12.17
5124.40	53.93	PK	134	1.8	H	-1.09	52.84	74.00	-21.16
5124.40	48.38	Ave	134	1.8	H	-1.09	47.29	54.00	-6.71
10480.00	40.62	PK	73	1.3	H	5.14	45.76	74.00	-28.24
10480.00	37.02	Ave	73	1.3	H	5.14	42.16	54.00	-11.84
802.11a U-NII-2A Low Channel 5260MHz									
302.57	43.04	QP	296	1.8	H	-11.62	31.42	46.00	-14.58
302.57	47.44	QP	13	1.5	V	-11.62	35.82	46.00	-10.18
4504.62	53.78	PK	4	1.8	H	-2.03	51.75	74.00	-22.25
4504.62	40.99	Ave	4	1.8	H	-2.03	38.96	54.00	-15.04
5146.28	53.46	PK	165	1.8	H	-1.02	52.44	74.00	-21.56
5146.28	38.59	Ave	165	1.8	H	-1.02	37.57	54.00	-16.43
10520.00	41.37	PK	185	2.0	H	5.33	46.70	74.00	-27.30
10520.00	33.60	Ave	185	2.0	H	5.33	38.93	54.00	-15.07

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11a U-NII-2A middle channel 5280MHz									
302.57	41.71	QP	135	1.6	H	-11.62	30.09	46.00	-15.91
302.57	47.10	QP	352	1.2	V	-11.62	35.48	46.00	-10.52
4533.10	55.19	PK	98	1.3	H	-1.94	53.25	74.00	-20.75
4533.10	41.78	Ave	98	1.3	H	-1.94	39.84	54.00	-14.16
5113.30	54.41	PK	222	1.4	H	-1.06	53.35	74.00	-20.65
5113.30	39.69	Ave	222	1.4	H	-1.06	38.63	54.00	-15.37
10560.00	41.92	PK	132	1.5	H	5.21	47.13	74.00	-26.87
10560.00	32.42	Ave	132	1.5	H	5.21	37.63	54.00	-16.37
802.11a U-NII-2A High channel 5320MHz									
302.57	40.48	QP	89	1.3	H	-11.62	28.86	46.00	-17.14
302.57	47.32	QP	48	1.1	V	-11.62	35.70	46.00	-10.30
4532.03	54.98	PK	26	1.1	H	-2.24	52.74	74.00	-21.26
4532.03	42.81	Ave	26	1.1	H	-2.24	40.57	54.00	-13.43
5140.32	54.98	PK	144	1.1	H	-1.09	53.89	74.00	-20.11
5140.32	40.17	Ave	144	1.1	H	-1.09	39.08	54.00	-14.92
10640.00	41.63	PK	152	1.7	H	5.14	46.77	74.00	-27.23
10640.00	33.27	Ave	152	1.7	H	5.14	38.41	54.00	-15.59

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11a U-NII-2C Low Channel 5500MHz									
302.57	44.27	QP	119	1.1	H	-11.62	32.65	46.00	-13.35
302.57	48.40	QP	232	1.1	V	-11.62	36.78	46.00	-9.22
4520.75	52.63	PK	283	1.4	H	-2.03	50.60	74.00	-23.40
4520.75	40.14	Ave	283	1.4	H	-2.03	38.11	54.00	-15.89
5112.21	52.71	PK	165	1.7	H	-1.02	51.69	74.00	-22.31
5112.21	39.02	Ave	165	1.7	H	-1.02	38.00	54.00	-16.00
11000.00	41.24	PK	110	1.6	H	5.33	46.57	74.00	-27.43
11000.00	37.59	Ave	110	1.6	H	5.33	42.92	54.00	-11.08
802.11a U-NII-2C Middle channel 5600MHz									
302.57	44.80	QP	164	1.8	H	-11.62	33.18	46.00	-12.82
302.57	47.96	QP	229	1.3	V	-11.62	36.34	46.00	-9.66
4532.46	51.53	PK	245	1.1	H	-1.94	49.59	74.00	-24.41
4532.46	39.70	Ave	245	1.1	H	-1.94	37.76	54.00	-16.24
5148.90	53.97	PK	104	1.5	H	-1.06	52.91	74.00	-21.09
5148.90	39.04	Ave	104	1.5	H	-1.06	37.98	54.00	-16.02
11200.00	40.70	PK	31	1.5	H	5.21	45.91	74.00	-28.09
11200.00	38.68	Ave	31	1.5	H	5.21	43.89	54.00	-10.11

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11a U-NII-2C High channel 5700MHz									
302.57	44.55	QP	64	1.7	H	-11.62	32.93	46.00	-13.07
302.57	47.79	QP	244	1.1	V	-11.62	36.17	46.00	-9.83
4523.27	50.60	PK	240	1.4	H	-2.24	48.36	74.00	-25.64
4523.27	39.95	Ave	240	1.4	H	-2.24	37.71	54.00	-16.29
5139.48	54.88	PK	233	2.0	H	-1.09	53.79	74.00	-20.21
5139.48	40.73	Ave	233	2.0	H	-1.09	39.64	54.00	-14.36
11400.00	42.73	PK	285	1.4	H	5.14	47.87	74.00	-26.13
11400.00	38.65	Ave	285	1.4	H	5.14	43.79	54.00	-10.21
802.11a U-NII-3 Low Channel 5745MHz									
302.57	40.24	QP	45	1.9	H	-11.62	28.62	46.00	-17.38
302.57	44.98	QP	98	1.9	V	-11.62	33.36	46.00	-12.64
4516.56	55.84	PK	169	1.6	H	-2.06	53.78	74.00	-20.22
4516.56	44.91	Ave	169	1.6	H	-2.06	42.85	54.00	-11.15
5354.96	41.61	PK	328	1.5	H	5.93	47.54	74.00	-26.46
5354.96	36.42	Ave	328	1.5	H	5.93	42.35	54.00	-11.65
11490.00	45.31	PK	105	1.5	H	-1.25	44.06	74.00	-29.94
11490.00	38.52	Ave	105	1.5	H	-1.25	37.27	54.00	-16.73

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11a U-NII-3 middle channel 5785MHz									
302.57	39.17	QP	100	1.1	H	-11.62	27.55	46.00	-18.45
302.57	45.05	QP	330	1.2	V	-11.62	33.43	46.00	-12.57
4531.98	54.96	PK	324	1.2	H	-2.03	52.93	74.00	-21.07
4531.98	45.89	Ave	324	1.2	H	-2.03	43.86	54.00	-10.14
5364.12	40.78	PK	359	1.1	H	5.81	46.59	74.00	-27.41
5364.12	36.32	Ave	359	1.1	H	5.81	42.13	54.00	-11.87
11570.00	45.44	PK	76	1.8	H	-1.22	44.22	74.00	-29.78
11570.00	38.25	Ave	76	1.8	H	-1.22	37.03	54.00	-16.97
802.11a U-NII-3 High channel 5825MHz									
302.57	38.36	QP	35	1.2	H	-11.62	26.74	46.00	-19.26
302.57	44.79	QP	153	1.1	V	-11.62	33.17	46.00	-12.83
4506.39	53.59	PK	258	1.7	H	-1.84	51.75	74.00	-22.25
4506.39	44.63	Ave	258	1.7	H	-1.84	42.79	54.00	-11.21
5366.79	42.07	PK	69	1.1	H	5.84	47.91	74.00	-26.09
5366.79	35.94	Ave	69	1.1	H	5.84	41.78	54.00	-12.22
11650.00	46.90	PK	312	2.0	H	-1.30	45.60	74.00	-28.40
11650.00	37.88	Ave	312	2.0	H	-1.30	36.58	54.00	-17.42

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT20) U-NII-1 Low Channel 5180MHz									
302.57	39.57	QP	213	1.4	H	-11.62	27.95	46.00	-18.05
302.57	45.26	QP	255	1.7	V	-11.62	33.64	46.00	-12.36
4534.00	52.75	PK	14	1.8	H	-2.14	50.61	74.00	-23.39
4534.00	43.25	Ave	14	1.8	H	-2.14	41.11	54.00	-12.89
5118.36	46.49	PK	44	1.2	H	-1.06	45.43	74.00	-28.57
5118.36	36.88	Ave	44	1.2	H	-1.06	35.82	54.00	-18.18
10360.00	41.47	PK	333	1.3	H	5.33	46.80	74.00	-27.20
10360.00	37.25	Ave	333	1.3	H	5.33	42.58	54.00	-11.42
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
302.57	40.86	QP	5	1.7	H	-11.62	29.24	46.00	-16.76
302.57	43.89	QP	94	1.2	V	-11.62	32.27	46.00	-13.73
4516.21	52.46	PK	128	1.7	H	-2.12	50.34	74.00	-23.66
4516.21	43.35	Ave	128	1.7	H	-2.12	41.23	54.00	-12.77
5139.00	47.97	PK	309	1.1	H	-1.06	46.91	74.00	-27.09
5139.00	37.36	Ave	309	1.1	H	-1.06	36.30	54.00	-17.70
10400.00	41.39	PK	39	1.6	H	5.21	46.60	74.00	-27.40
10400.00	35.57	Ave	39	1.6	H	5.21	40.78	54.00	-13.22

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT20) U-NII-1 High channel 5240MHz									
302.57	40.55	QP	314	1.8	H	-11.62	28.93	46.00	-17.07
302.57	43.95	QP	286	1.2	V	-11.62	32.33	46.00	-13.67
4525.61	52.58	PK	210	1.2	H	-1.96	50.62	74.00	-23.38
4525.61	44.55	Ave	210	1.2	H	-1.96	42.59	54.00	-11.41
5113.17	47.66	PK	186	1.9	H	-1.06	46.60	74.00	-27.40
5113.17	36.44	Ave	186	1.9	H	-1.06	35.38	54.00	-18.62
10480.00	41.26	PK	327	1.0	H	5.14	46.40	74.00	-27.60
10480.00	35.71	Ave	327	1.0	H	5.14	40.85	54.00	-13.15
802.11n(HT20) U-NII-2A Low Channel 5260MHz									
302.57	41.37	QP	204	1.8	H	-11.62	29.75	46.00	-16.25
302.57	45.11	QP	144	1.5	V	-11.62	33.49	46.00	-12.51
4506.77	37.15	PK	182	1.7	H	-2.03	35.12	74.00	-38.88
4506.77	44.39	Ave	182	1.7	H	-2.03	42.36	54.00	-11.64
5137.90	40.63	PK	214	1.1	H	-1.02	39.61	74.00	-34.39
5137.90	39.76	Ave	214	1.1	H	-1.02	38.74	54.00	-15.26
10520.00	40.92	PK	138	1.7	H	5.33	46.25	74.00	-27.75
10520.00	44.91	Ave	138	1.7	H	5.33	50.24	54.00	-3.76

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT20) U-NII-2A middle channel 5280MHz									
302.57	40.66	QP	347	1.6	H	-11.62	29.04	46.00	-16.96
302.57	44.98	QP	292	1.2	V	-11.62	33.36	46.00	-12.64
4522.22	37.68	PK	193	1.1	H	-1.94	35.74	74.00	-38.26
4522.22	45.74	Ave	193	1.1	H	-1.94	43.80	54.00	-10.20
5122.54	40.37	PK	333	1.6	H	-1.06	39.31	74.00	-34.69
5122.54	39.24	Ave	333	1.6	H	-1.06	38.18	54.00	-15.82
10560.00	41.08	PK	131	1.9	H	5.21	46.29	74.00	-27.71
10560.00	45.07	Ave	131	1.9	H	5.21	50.28	54.00	-3.72
802.11n(HT20) U-NII-2A High channel 5320MHz									
302.57	40.54	QP	64	1.6	H	-11.62	28.92	46.00	-17.08
302.57	44.87	QP	174	1.6	V	-11.62	33.25	46.00	-12.75
4512.40	36.88	PK	359	1.9	H	-2.24	34.64	74.00	-39.36
4512.40	45.27	Ave	359	1.9	H	-2.24	43.03	54.00	-10.97
5110.82	40.93	PK	274	1.7	H	-1.09	39.84	74.00	-34.16
5110.82	39.82	Ave	274	1.7	H	-1.09	38.73	54.00	-15.27
10640.00	41.88	PK	224	1.5	H	5.14	47.02	74.00	-26.98
10640.00	45.52	Ave	224	1.5	H	5.14	50.66	54.00	-3.34

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT20) U-NII-2C Low Channel 5500MHz									
302.57	41.70	QP	307	1.3	H	-11.62	30.08	46.00	-15.92
302.57	48.81	QP	288	1.5	V	-11.62	37.19	46.00	-8.81
4503.70	40.43	PK	96	1.4	H	-2.03	38.40	74.00	-35.60
4503.70	45.48	Ave	96	1.4	H	-2.03	43.45	54.00	-10.55
5135.78	46.50	PK	177	1.2	H	-1.02	45.48	74.00	-28.52
5135.78	40.72	Ave	177	1.2	H	-1.02	39.70	54.00	-14.30
11000.00	37.62	PK	125	1.7	H	5.33	42.95	74.00	-31.05
11000.00	30.39	Ave	125	1.7	H	5.33	35.72	54.00	-18.28
802.11n(HT20) U-NII-2C Middle channel 5600MHz									
302.57	40.63	QP	7	1.5	H	-11.62	29.01	46.00	-16.99
302.57	49.49	QP	54	1.1	V	-11.62	37.87	46.00	-8.13
4516.53	40.92	PK	148	1.6	H	-1.94	38.98	74.00	-35.02
4516.53	46.25	Ave	148	1.6	H	-1.94	44.31	54.00	-9.69
5126.82	47.14	PK	126	1.0	H	-1.06	46.08	74.00	-27.92
5126.82	42.52	Ave	126	1.0	H	-1.06	41.46	54.00	-12.54
11200.00	38.21	PK	225	1.4	H	5.21	43.42	74.00	-30.58
11200.00	29.10	Ave	225	1.4	H	5.21	34.31	54.00	-19.69

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT20) U-NII-2C High channel 5700MHz									
302.57	40.75	QP	345	1.5	H	-11.62	29.13	46.00	-16.87
302.57	50.59	QP	332	1.2	V	-11.62	38.97	46.00	-7.03
4504.89	41.97	PK	48	1.8	H	-2.24	39.73	74.00	-34.27
4504.89	47.54	Ave	48	1.8	H	-2.24	45.30	54.00	-8.70
5128.19	49.09	PK	101	1.5	H	-1.09	48.00	74.00	-26.00
5128.19	43.61	Ave	101	1.5	H	-1.09	42.52	54.00	-11.48
11400.00	36.42	PK	74	1.1	H	5.14	41.56	74.00	-32.44
11400.00	34.32	Ave	74	1.1	H	5.14	39.46	54.00	-14.54
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
302.57	44.59	QP	63	1.3	H	-11.62	32.97	46.00	-13.03
302.57	48.37	QP	334	1.6	V	-11.62	36.75	46.00	-9.25
4523.45	45.00	PK	94	1.4	H	-2.06	42.94	74.00	-31.06
4523.45	48.57	Ave	94	1.4	H	-2.06	46.51	54.00	-7.49
5384.83	35.80	PK	62	1.1	H	5.93	41.73	74.00	-32.27
5384.83	40.62	Ave	62	1.1	H	5.93	46.55	54.00	-7.45
11490.00	46.76	PK	330	1.1	H	-1.25	45.51	74.00	-28.49
11490.00	38.67	Ave	330	1.1	H	-1.25	37.42	54.00	-16.58

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT20) U-NII-3 middle channel 5785MHz									
302.57	44.95	QP	346	1.8	H	-11.62	33.33	46.00	-12.67
302.57	43.01	QP	54	2.0	V	-11.62	31.39	46.00	-14.61
4529.73	45.26	PK	295	1.4	H	-2.03	43.23	74.00	-30.77
4529.73	47.82	Ave	295	1.4	H	-2.03	45.79	54.00	-8.21
5386.53	35.95	PK	80	1.8	H	5.81	41.76	74.00	-32.24
5386.53	40.88	Ave	80	1.8	H	5.81	46.69	54.00	-7.31
11570.00	45.33	PK	280	1.3	H	-1.22	44.11	74.00	-29.89
11570.00	39.71	Ave	280	1.3	H	-1.22	38.49	54.00	-15.51
802.11n(HT20) U-NII-3 High channel 5825MHz									
302.57	44.20	QP	344	1.4	H	-11.62	32.58	46.00	-13.42
302.57	43.69	QP	100	1.6	V	-11.62	32.07	46.00	-13.93
4519.03	45.10	PK	53	1.7	H	-1.84	43.26	74.00	-30.74
4519.03	48.52	Ave	53	1.7	H	-1.84	46.68	54.00	-7.32
5385.56	36.40	PK	59	1.6	H	5.84	42.24	74.00	-31.76
5385.56	41.62	Ave	59	1.6	H	5.84	47.46	54.00	-6.54
11650.00	46.21	PK	322	1.5	H	-1.30	44.91	74.00	-29.09
11650.00	37.25	Ave	322	1.5	H	-1.30	35.95	54.00	-18.05

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT20) U-NII-1 Low Channel 5180MHz									
302.57	36.88	QP	6	1.5	H	-11.62	25.26	46.00	-20.74
302.57	40.52	QP	266	1.7	V	-11.62	28.90	46.00	-17.10
4506.21	45.54	PK	38	1.1	H	-1.86	43.68	74.00	-30.32
4506.21	38.48	Ave	38	1.1	H	-1.86	36.62	54.00	-17.38
5141.29	40.81	PK	275	1.3	H	-1.06	39.75	74.00	-34.25
5141.29	43.28	Ave	275	1.3	H	-1.06	42.22	54.00	-11.78
10360.00	46.29	PK	82	1.6	H	5.33	51.62	74.00	-22.38
10360.00	39.33	Ave	82	1.6	H	5.33	44.66	54.00	-9.34
802.11ac(VHT20) U-NII-1 Middle channel 5200MHz									
302.57	36.55	QP	358	1.0	H	-11.62	24.93	46.00	-21.07
302.57	41.08	QP	318	1.9	V	-11.62	29.46	46.00	-16.54
4527.16	45.75	PK	82	1.1	H	-1.82	43.93	74.00	-30.07
4527.16	38.55	Ave	82	1.1	H	-1.82	36.73	54.00	-17.27
5111.08	40.71	PK	284	1.3	H	-1.06	39.65	74.00	-34.35
5111.08	42.97	Ave	284	1.3	H	-1.06	41.91	54.00	-12.09
10400.00	40.70	PK	69	1.2	H	5.21	45.91	74.00	-28.09
10400.00	37.05	Ave	69	1.2	H	5.21	42.26	54.00	-11.74

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT20) U-NII-1 High channel 5240MHz									
302.57	37.09	QP	174	1.3	H	-11.62	25.47	46.00	-20.53
302.57	40.62	QP	41	1.6	V	-11.62	29.00	46.00	-17.00
4525.97	45.20	PK	323	1.4	H	-1.81	43.39	74.00	-30.61
4525.97	37.83	Ave	323	1.4	H	-1.81	36.02	54.00	-17.98
5138.33	39.96	PK	224	1.0	H	-1.06	38.90	74.00	-35.10
5138.33	43.34	Ave	224	1.0	H	-1.06	42.28	54.00	-11.72
10480.00	41.14	PK	4	1.4	H	5.14	46.28	74.00	-27.72
10480.00	36.67	Ave	4	1.4	H	5.14	41.81	54.00	-12.19
802.11ac(VHT20) U-NII-2A Low Channel 5260MHz									
302.57	39.66	QP	13	1.4	H	-11.62	28.04	46.00	-17.96
302.57	44.59	QP	13	1.6	V	-11.62	32.97	46.00	-13.03
4537.80	40.20	PK	324	1.8	H	-2.03	38.17	74.00	-35.83
4537.80	35.40	Ave	324	1.8	H	-2.03	33.37	54.00	-20.63
5123.72	45.10	PK	50	2.0	H	-1.02	44.08	74.00	-29.92
5123.72	40.03	Ave	50	2.0	H	-1.02	39.01	54.00	-14.99
10520.00	39.41	PK	264	1.9	H	5.33	44.74	74.00	-29.26
10520.00	43.36	Ave	264	1.9	H	5.33	48.69	54.00	-5.31

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT20) U-NII-2A middle channel 5280MHz									
302.57	39.63	QP	72	1.5	H	-11.62	28.01	46.00	-17.99
302.57	44.45	QP	85	1.8	V	-11.62	32.83	46.00	-13.17
4513.91	40.89	PK	176	1.2	H	-1.94	38.95	74.00	-35.05
4513.91	36.85	Ave	176	1.2	H	-1.94	34.91	54.00	-19.09
5137.67	46.60	PK	69	1.8	H	-1.06	45.54	74.00	-28.46
5137.67	39.36	Ave	69	1.8	H	-1.06	38.30	54.00	-15.70
10560.00	40.58	PK	158	1.1	H	5.21	45.79	74.00	-28.21
10560.00	44.63	Ave	158	1.1	H	5.21	49.84	54.00	-4.16
802.11ac(VHT20) U-NII-2A High channel 5320MHz									
302.57	40.48	QP	182	1.7	H	-11.62	28.86	46.00	-17.14
302.57	43.95	QP	343	1.2	V	-11.62	32.33	46.00	-13.67
4523.11	41.91	PK	228	1.6	H	-2.24	39.67	74.00	-34.33
4523.11	37.68	Ave	228	1.6	H	-2.24	35.44	54.00	-18.56
5145.35	47.00	PK	95	1.4	H	-1.09	45.91	74.00	-28.09
5145.35	41.15	Ave	95	1.4	H	-1.09	40.06	54.00	-13.94
10640.00	38.82	PK	186	1.3	H	5.14	43.96	74.00	-30.04
10640.00	42.04	Ave	186	1.3	H	5.14	47.18	54.00	-6.82

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT20) U-NII-2C Low Channel 5500MHz									
302.57	48.42	QP	218	1.3	H	-11.62	36.80	46.00	-9.20
302.57	40.22	QP	167	1.9	V	-11.62	28.60	46.00	-17.40
4521.12	40.02	PK	33	2.0	H	-2.03	37.99	74.00	-36.01
4521.12	41.89	Ave	33	2.0	H	-2.03	39.86	54.00	-14.14
5149.81	46.61	PK	312	1.2	H	-1.02	45.59	74.00	-28.41
5149.81	39.55	Ave	312	1.2	H	-1.02	38.53	54.00	-15.47
11000.00	38.27	PK	224	1.9	H	5.33	43.60	74.00	-30.40
11000.00	37.05	Ave	224	1.9	H	5.33	42.38	54.00	-11.62
802.11ac(VHT20) U-NII-2C Middle channel 5600MHz									
302.57	47.61	QP	276	1.8	H	-11.62	35.99	46.00	-10.01
302.57	38.99	QP	63	1.1	V	-11.62	27.37	46.00	-18.63
4528.01	40.49	PK	305	1.1	H	-1.94	38.55	74.00	-35.45
4528.01	42.98	Ave	305	1.1	H	-1.94	41.04	54.00	-12.96
5127.69	45.84	PK	55	1.5	H	-1.06	44.78	74.00	-29.22
5127.69	40.45	Ave	55	1.5	H	-1.06	39.39	54.00	-14.61
11200.00	39.25	PK	202	1.3	H	5.21	44.46	74.00	-29.54
11200.00	35.66	Ave	202	1.3	H	5.21	40.87	54.00	-13.13

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT20) U-NII-2C High channel 5700MHz									
302.57	48.62	QP	230	1.3	H	-11.62	37.00	46.00	-9.00
302.57	38.22	QP	273	1.7	V	-11.62	26.60	46.00	-19.40
4500.23	41.25	PK	217	1.6	H	-2.24	39.01	74.00	-34.99
4500.23	41.65	Ave	217	1.6	H	-2.24	39.41	54.00	-14.59
5136.43	45.17	PK	148	1.9	H	-1.09	44.08	74.00	-29.92
5136.43	39.60	Ave	148	1.9	H	-1.09	38.51	54.00	-15.49
11400.00	38.53	PK	0	1.5	H	5.14	43.67	74.00	-30.33
11400.00	37.00	Ave	0	1.5	H	5.14	42.14	54.00	-11.86
802.11ac(VHT20) U-NII-3 Low Channel 5745MHz									
302.57	38.46	QP	359	1.2	H	-11.62	26.84	46.00	-19.16
302.57	41.16	QP	353	1.8	V	-11.62	29.54	46.00	-16.46
4523.40	44.07	PK	32	1.9	H	-1.92	42.15	74.00	-31.85
4523.40	35.82	Ave	32	1.9	H	-1.92	33.90	54.00	-20.10
5352.55	40.34	PK	61	1.8	H	5.93	46.27	74.00	-27.73
5352.55	34.79	Ave	61	1.8	H	5.93	40.72	54.00	-13.28
11490.00	46.50	PK	295	1.4	H	-1.03	45.47	74.00	-28.53
11490.00	39.66	Ave	295	1.4	H	-1.03	38.63	54.00	-15.37

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT20) U-NII-3 middle channel 5785MHz									
302.57	39.26	QP	123	1.4	H	-11.62	27.64	46.00	-18.36
302.57	41.31	QP	37	1.1	V	-11.62	29.69	46.00	-16.31
4509.92	44.11	PK	123	1.7	H	-1.97	42.14	74.00	-31.86
4509.92	35.74	Ave	123	1.7	H	-1.97	33.77	54.00	-20.23
5372.01	41.42	PK	278	1.8	H	5.81	47.23	74.00	-26.77
5372.01	36.51	Ave	278	1.8	H	5.81	42.32	54.00	-11.68
11570.00	45.85	PK	25	1.3	H	-1.05	44.80	74.00	-29.20
11570.00	37.03	Ave	25	1.3	H	-1.05	35.98	54.00	-18.02
802.11ac(VHT20) U-NII-3 High channel 5825MHz									
302.57	39.41	QP	187	1.8	H	-11.62	27.79	46.00	-18.21
302.57	41.87	QP	170	1.9	V	-11.62	30.25	46.00	-15.75
4539.88	43.60	PK	235	1.8	H	-1.88	41.72	74.00	-32.28
4539.88	35.89	Ave	235	1.8	H	-1.88	34.01	54.00	-19.99
5355.82	41.44	PK	123	1.5	H	5.84	47.28	74.00	-26.72
5355.82	36.81	Ave	123	1.5	H	5.84	42.65	54.00	-11.35
11650.00	46.42	PK	13	1.2	H	-1.06	45.36	74.00	-28.64
11650.00	37.89	Ave	13	1.2	H	-1.06	36.83	54.00	-17.17

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT40) U-NII-1 Low Channel 5190MHz									
302.57	39.91	QP	252	1.2	H	-11.62	28.29	46.00	-17.71
302.57	41.47	QP	236	1.7	V	-11.62	29.85	46.00	-16.15
4535.23	41.99	PK	351	1.9	H	-1.89	40.10	74.00	-33.90
4535.23	34.47	Ave	351	1.9	H	-1.89	32.58	54.00	-21.42
5115.39	45.60	PK	93	1.6	H	-1.06	44.54	74.00	-29.46
5115.39	38.31	Ave	93	1.6	H	-1.06	37.25	54.00	-16.75
10380.00	39.32	PK	222	1.3	H	5.26	44.58	74.00	-29.42
10380.00	35.73	Ave	222	1.3	H	5.26	40.99	54.00	-13.01
802.11n(HT40) U-NII-1 High channel 5230MHz									
302.57	36.63	QP	227	1.0	H	-11.62	25.01	46.00	-20.99
302.57	40.78	QP	213	1.4	V	-11.62	29.16	46.00	-16.84
4513.50	41.83	PK	121	1.6	H	-1.94	39.89	74.00	-34.11
4513.50	31.45	Ave	121	1.6	H	-1.94	29.51	54.00	-24.49
5146.57	49.23	PK	201	1.7	H	-1.06	48.17	74.00	-25.83
5146.57	39.21	Ave	201	1.7	H	-1.06	38.15	54.00	-15.85
10460.00	42.41	PK	157	1.0	H	5.28	47.69	74.00	-26.31
10460.00	37.74	Ave	157	1.0	H	5.28	43.02	54.00	-10.98

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT40) U-NII-2A Low Channel 5270MHz									
302.57	48.65	QP	174	1.7	H	-11.62	37.03	46.00	-8.97
302.57	40.19	QP	147	1.1	V	-11.62	28.57	46.00	-17.43
4527.44	42.69	PK	322	1.6	H	-1.89	40.80	74.00	-33.20
4527.44	38.03	Ave	322	1.6	H	-1.89	36.14	54.00	-17.86
5138.80	45.53	PK	79	1.2	H	-1.06	44.47	74.00	-29.53
5138.80	39.65	Ave	79	1.2	H	-1.06	38.59	54.00	-15.41
10540.00	47.72	PK	280	1.4	H	5.26	52.98	74.00	-21.02
10540.00	37.93	Ave	280	1.4	H	5.26	43.19	54.00	-10.81
802.11n(HT40) U-NII-2A High channel 5310MHz									
302.57	45.10	QP	126	1.9	H	-11.62	33.48	46.00	-12.52
302.57	41.21	QP	200	1.9	V	-11.62	29.59	46.00	-16.41
4520.37	40.89	PK	235	1.1	H	-1.94	38.95	74.00	-35.05
4520.37	37.38	Ave	235	1.1	H	-1.94	35.44	54.00	-18.56
5135.40	46.57	PK	112	1.7	H	-1.06	45.51	74.00	-28.49
5135.40	41.51	Ave	112	1.7	H	-1.06	40.45	54.00	-13.55
10620.00	41.55	PK	272	1.1	H	5.28	46.83	74.00	-27.17
10620.00	38.06	Ave	272	1.1	H	5.28	43.34	54.00	-10.66

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT40) U-NII-2C Low Channel 5510MHz									
302.57	46.48	QP	359	1.7	H	-11.62	34.86	46.00	-11.14
302.57	42.29	QP	120	1.9	V	-11.62	30.67	46.00	-15.33
4527.01	41.70	PK	7	1.9	H	-1.89	39.81	74.00	-34.19
4527.01	38.00	Ave	7	1.9	H	-1.89	36.11	54.00	-17.89
5130.35	45.33	PK	111	1.5	H	-1.06	44.27	74.00	-29.73
5130.35	38.18	Ave	111	1.5	H	-1.06	37.12	54.00	-16.88
11020.00	43.37	PK	270	2.0	H	5.26	48.63	74.00	-25.37
11020.00	38.62	Ave	270	2.0	H	5.26	43.88	54.00	-10.12
802.11n(HT40) U-NII-2C Middle channel 5550MHz									
302.57	46.09	QP	76	1.7	H	-11.62	34.47	46.00	-11.53
302.57	43.29	QP	183	2.0	V	-11.62	31.67	46.00	-14.33
4511.88	42.58	PK	174	1.4	H	-1.94	40.64	74.00	-33.36
4511.88	38.78	Ave	174	1.4	H	-1.94	36.84	54.00	-17.16
5111.89	46.80	PK	290	1.3	H	-1.06	45.74	74.00	-28.26
5111.89	39.59	Ave	290	1.3	H	-1.06	38.53	54.00	-15.47
11100.00	47.31	PK	306	2.0	H	5.28	52.59	74.00	-21.41
11100.00	39.85	Ave	306	2.0	H	5.28	45.13	54.00	-8.87
802.11n(HT40) U-NII-2C High channel 5670MHz									
302.57	47.02	QP	205	1.6	H	-11.62	35.40	46.00	-10.60
302.57	44.28	QP	199	1.6	V	-11.62	32.66	46.00	-13.34
4523.07	43.40	PK	212	1.5	H	-1.94	41.46	74.00	-32.54
4523.07	38.31	Ave	212	1.5	H	-1.94	36.37	54.00	-17.63
5113.70	47.84	PK	19	1.4	H	-1.06	46.78	74.00	-27.22
5113.70	39.10	Ave	19	1.4	H	-1.06	38.04	54.00	-15.96
11340.00	41.94	PK	339	1.3	H	5.28	47.22	74.00	-26.78
11340.00	32.75	Ave	339	1.3	H	5.28	38.03	54.00	-15.97

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11n(HT40) U-NII-3 Low Channel 5755MHz									
302.57	39.74	QP	209	1.8	H	-11.62	28.12	46.00	-17.88
302.57	42.64	QP	282	1.8	V	-11.62	31.02	46.00	-14.98
4507.68	39.88	PK	25	1.3	H	-1.96	37.92	74.00	-36.08
4507.68	31.14	Ave	25	1.3	H	-1.96	29.18	54.00	-24.82
5351.75	39.47	PK	316	1.5	H	5.88	45.35	74.00	-28.65
5351.75	35.35	Ave	316	1.5	H	5.88	41.23	54.00	-12.77
11510.00	45.63	PK	288	1.3	H	-1.01	44.62	74.00	-29.38
11510.00	39.34	Ave	288	1.3	H	-1.01	38.33	54.00	-15.67
802.11n(HT40) U-NII-3 High Channel 5795MHz									
302.57	39.57	QP	75	1.1	H	-11.62	27.95	46.00	-18.05
302.57	43.27	QP	290	1.8	V	-11.62	31.65	46.00	-14.35
4500.42	40.22	PK	269	1.6	H	-1.92	38.30	74.00	-35.70
4500.42	31.85	Ave	269	1.6	H	-1.92	29.93	54.00	-24.07
5389.51	42.13	PK	75	1.1	H	5.63	47.76	74.00	-26.24
5389.51	36.91	Ave	75	1.1	H	5.63	42.54	54.00	-11.46
11590.00	46.77	PK	194	1.0	H	-1.04	45.73	74.00	-28.27
11590.00	39.06	Ave	194	1.0	H	-1.04	38.02	54.00	-15.98

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT40) U-NII-1 Low Channel 5190MHz									
302.57	39.15	QP	224	1.7	H	-11.62	27.53	46.00	-18.47
302.57	43.60	QP	63	2.0	V	-11.62	31.98	46.00	-14.02
4531.92	37.55	PK	354	1.1	H	-1.91	35.64	74.00	-38.36
4531.92	30.19	Ave	354	1.1	H	-1.91	28.28	54.00	-25.72
5143.88	46.38	PK	258	1.3	H	-1.06	45.32	74.00	-28.68
5143.88	40.34	Ave	258	1.3	H	-1.06	39.28	54.00	-14.72
10380.00	40.07	PK	231	1.4	H	5.26	45.33	74.00	-28.67
10380.00	34.92	Ave	231	1.4	H	5.26	40.18	54.00	-13.82
802.11ac(VHT40) U-NII-1 High channel 5230MHz									
302.57	39.22	QP	130	1.9	H	-11.62	27.60	46.00	-18.40
302.57	42.82	QP	211	1.1	V	-11.62	31.20	46.00	-14.80
4519.26	38.16	PK	33	1.7	H	-1.93	36.23	74.00	-37.77
4519.26	30.80	Ave	33	1.7	H	-1.93	28.87	54.00	-25.13
5120.78	48.10	PK	68	1.6	H	-1.06	47.04	74.00	-26.96
5120.78	40.82	Ave	68	1.6	H	-1.06	39.76	54.00	-14.24
10460.00	40.33	PK	132	1.3	H	5.28	45.61	74.00	-28.39
10460.00	37.32	Ave	132	1.3	H	5.28	42.60	54.00	-11.40

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT40) U-NII-2A Low Channel 5270MHz									
302.57	40.57	QP	231	1.6	H	-11.62	28.95	46.00	-17.05
302.57	46.31	QP	216	1.3	V	-11.62	34.69	46.00	-11.31
4530.93	53.57	PK	335	1.6	H	-2.03	51.54	74.00	-22.46
4530.93	43.40	Ave	335	1.6	H	-2.03	41.37	54.00	-12.63
5149.91	53.63	PK	190	1.8	H	-1.02	52.61	74.00	-21.39
5149.91	44.66	Ave	190	1.8	H	-1.02	43.64	54.00	-10.36
10540.00	41.34	PK	41	1.4	H	5.33	46.67	74.00	-27.33
10540.00	37.60	Ave	41	1.4	H	5.33	42.93	54.00	-11.07
802.11ac(VHT40) U-NII-2A High channel 5310MHz									
302.57	40.06	QP	152	2.0	H	-11.62	28.44	46.00	-17.56
302.57	46.94	QP	184	1.3	V	-11.62	35.32	46.00	-10.68
4526.51	52.95	PK	251	1.0	H	-1.94	51.01	74.00	-22.99
4526.51	42.80	Ave	251	1.0	H	-1.94	40.86	54.00	-13.14
5122.48	55.60	PK	343	1.3	H	-1.06	54.54	74.00	-19.46
5122.48	46.60	Ave	343	1.3	H	-1.06	45.54	54.00	-8.46
10620.00	40.91	PK	305	1.7	H	5.21	46.12	74.00	-27.88
10620.00	36.96	Ave	305	1.7	H	5.21	42.17	54.00	-11.83

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT40) U-NII-2C Low Channel 5510MHz									
302.57	40.64	QP	282	1.6	H	-11.62	29.02	46.00	-16.98
302.57	46.01	QP	163	1.1	V	-11.62	34.39	46.00	-11.61
4507.66	51.57	PK	92	2.0	H	-2.24	49.33	74.00	-24.67
4507.66	41.66	Ave	92	2.0	H	-2.24	39.42	54.00	-14.58
5127.12	55.19	PK	31	1.5	H	-1.09	54.10	74.00	-19.90
5127.12	46.75	Ave	31	1.5	H	-1.09	45.66	54.00	-8.34
11020.00	41.52	PK	82	1.6	H	5.14	46.66	74.00	-27.34
11020.00	37.26	Ave	82	1.6	H	5.14	42.40	54.00	-11.60
802.11ac(VHT40) U-NII-2C Middle channel 5550MHz									
302.57	40.13	QP	179	1.1	H	-11.62	28.51	46.00	-17.49
302.57	45.98	QP	111	1.5	V	-11.62	34.36	46.00	-11.64
4526.00	53.55	PK	289	1.4	H	-2.03	51.52	74.00	-22.48
4526.00	40.60	Ave	289	1.4	H	-2.03	38.57	54.00	-15.43
5128.12	53.31	PK	280	1.8	H	-1.02	52.29	74.00	-21.71
5128.12	38.78	Ave	280	1.8	H	-1.02	37.76	54.00	-16.24
11100.00	41.14	PK	112	1.1	H	5.33	46.47	74.00	-27.53
11100.00	33.25	Ave	112	1.1	H	5.33	38.58	54.00	-15.42
802.11ac(VHT40) U-NII-2C High channel 5670MHz									
302.57	45.21	QP	143	1.5	H	-11.62	33.59	46.00	-12.41
302.57	38.96	QP	207	1.8	V	-11.62	27.34	46.00	-18.66
4523.56	0.62	PK	242	1.2	H	-1.94	-1.32	74.00	-75.32
4523.56	40.93	Ave	242	1.2	H	-1.94	38.99	54.00	-15.01
5116.70	45.24	PK	157	1.9	H	-1.06	44.18	74.00	-29.82
5116.70	40.21	Ave	157	1.9	H	-1.06	39.15	54.00	-14.85
11340.00	43.02	PK	292	1.3	H	5.28	48.30	74.00	-25.70
11340.00	35.85	Ave	292	1.3	H	5.28	41.13	54.00	-12.87

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT40) U-NII-3 Low Channel 5755MHz									
302.57	36.88	QP	56	1.9	H	-11.62	25.26	46.00	-20.74
302.57	40.79	QP	238	1.7	V	-11.62	29.17	46.00	-16.83
4516.01	36.25	PK	232	1.9	H	-1.92	34.33	74.00	-39.67
4516.01	29.11	Ave	232	1.9	H	-1.92	27.19	54.00	-26.81
5373.31	41.06	PK	288	1.4	H	5.88	46.94	74.00	-27.06
5373.31	34.82	Ave	288	1.4	H	5.88	40.70	54.00	-13.30
11510.00	46.71	PK	200	1.8	H	-1.07	45.64	74.00	-28.36
11510.00	37.66	Ave	200	1.8	H	-1.07	36.59	54.00	-17.41
802.11ac(VHT40) U-NII-3 High Channel 5795MHz									
302.57	36.40	QP	156	1.3	H	-11.62	24.78	46.00	-21.22
302.57	40.02	QP	35	1.1	V	-11.62	28.40	46.00	-17.60
4526.36	35.56	PK	215	1.9	H	-1.86	33.70	74.00	-40.30
4526.36	29.59	Ave	215	1.9	H	-1.86	27.73	54.00	-26.27
5366.89	42.20	PK	93	1.5	H	5.63	47.83	74.00	-26.17
5366.89	37.30	Ave	93	1.5	H	5.63	42.93	54.00	-11.07
11590.00	45.48	PK	65	1.4	H	-1.03	44.45	74.00	-29.55
11590.00	39.84	Ave	65	1.4	H	-1.03	38.81	54.00	-15.19

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT80) U-NII-1 Low Channel 5210MHz									
302.57	39.46	QP	350	1.3	H	-11.62	27.84	46.00	-18.16
302.57	36.47	QP	216	1.8	V	-11.62	24.85	46.00	-21.15
4519.65	29.46	PK	111	1.7	H	-1.88	27.58	74.00	-46.42
4519.65	41.42	Ave	111	1.7	H	-1.88	39.54	54.00	-14.46
5113.36	36.46	PK	257	1.5	H	-1.06	35.40	74.00	-38.60
5113.36	45.66	Ave	257	1.5	H	-1.06	44.60	54.00	-9.40
10420.00	41.33	PK	197	1.9	H	4.65	45.98	74.00	-28.02
10420.00	37.43	Ave	197	1.9	H	4.65	42.08	54.00	-11.92
802.11ac(VHT80) U-NII-2A Low Channel 5290MHz									
302.57	35.70	QP	286	1.3	H	-11.62	24.08	46.00	-21.92
302.57	29.49	QP	77	1.1	V	-11.62	17.87	46.00	-28.13
4513.18	41.31	PK	207	1.1	H	-1.88	39.43	74.00	-34.57
4513.18	36.70	Ave	207	1.1	H	-1.88	34.82	54.00	-19.18
5126.71	45.77	PK	253	1.3	H	-1.06	44.71	74.00	-29.29
5126.71	41.23	Ave	253	1.3	H	-1.06	40.17	54.00	-13.83
10580.00	38.67	PK	289	1.7	H	4.65	43.32	74.00	-30.68
10580.00	45.14	Ave	289	1.7	H	4.65	49.79	54.00	-4.21

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
802.11ac(VHT80) U-NII-2C Low Channel 5530MHz									
302.57	31.60	QP	186	1.1	H	-11.62	19.98	46.00	-26.02
302.57	42.11	QP	193	1.2	V	-11.62	30.49	46.00	-15.51
4532.28	38.12	PK	165	1.5	H	-1.88	36.24	74.00	-37.76
4532.28	48.04	Ave	165	1.5	H	-1.88	46.16	54.00	-7.84
5130.25	42.77	PK	264	1.3	H	-1.06	41.71	74.00	-32.29
5130.25	38.67	Ave	264	1.3	H	-1.06	37.61	54.00	-16.39
11060.00	46.04	PK	222	1.5	H	4.65	50.69	74.00	-23.31
11060.00	39.10	Ave	222	1.5	H	4.65	43.75	54.00	-10.25
802.11ac(VHT80) U-NII-3 Low channel 5775MHz									
302.57	34.19	QP	54	2.0	H	-11.62	22.57	46.00	-23.43
302.57	30.90	QP	1	1.6	V	-11.62	19.28	46.00	-26.72
4536.08	43.28	PK	182	1.9	H	-1.85	41.43	74.00	-32.57
4536.08	41.47	Ave	182	1.9	H	-1.85	39.62	54.00	-14.38
5380.20	43.08	PK	113	1.4	H	4.83	47.91	74.00	-26.09
5380.20	37.48	Ave	113	1.4	H	4.83	42.31	54.00	-11.69
11550.00	45.58	PK	51	1.5	H	-1.14	44.44	74.00	-29.56
11550.00	38.02	Ave	51	1.5	H	-1.14	36.88	54.00	-17.12

Test Frequency: 12GHz~40GHz

The measurements were more than 20 dB below the limit and not reported.

10 Band Edge

Test Requirement:	FCC 47CFR Part 15 Section 15.407
Test Method:	ANSI C63.10 2013
Test Limit:	<p>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 -27dBm/MHz.</p> <p>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.</p> <p>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.</p> <p>For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.</p>
Test Result:	PASS

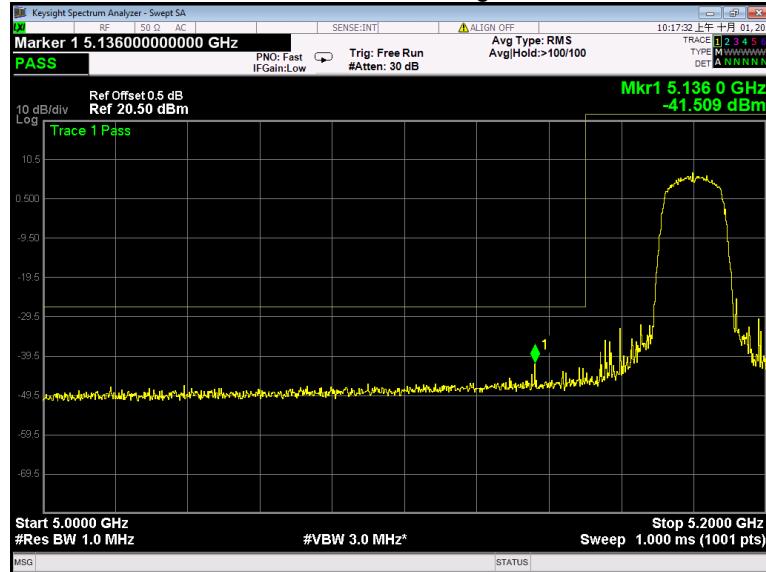
10.1 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

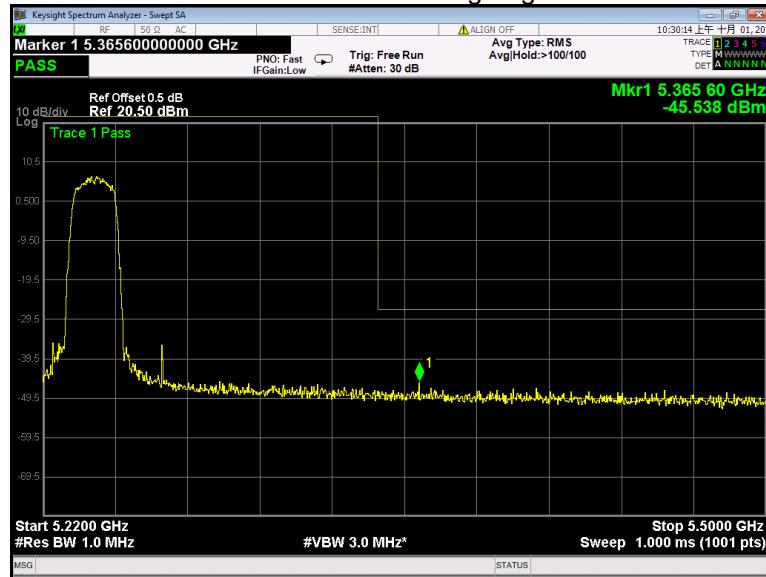
10.2 Test Result

Test result plots shown as follows:

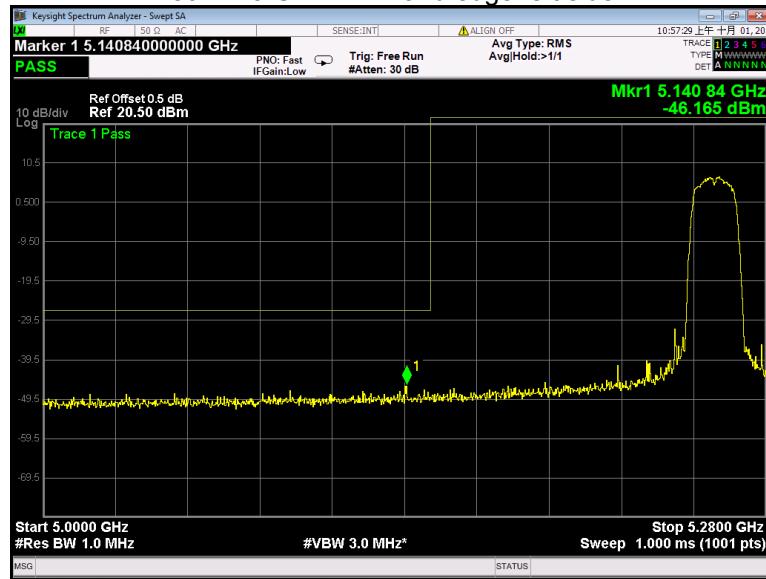
802.11a U-NII-1 Band edge-left side



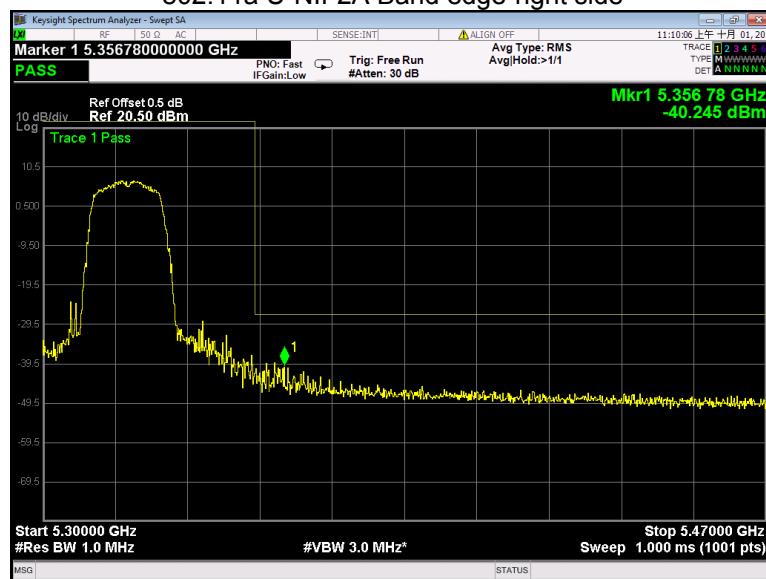
802.11a U-NII-1 Band edge-right side



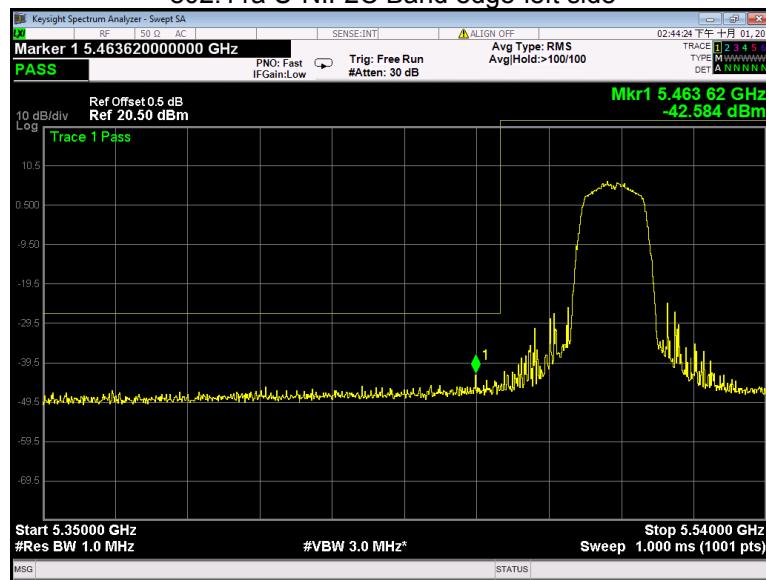
802.11a U-NII-2A Band edge-left side



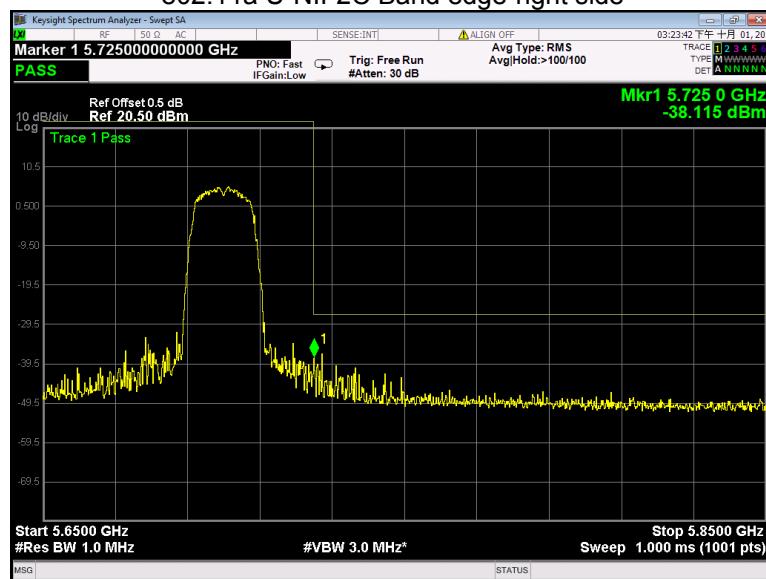
802.11a U-NII-2A Band edge-right side



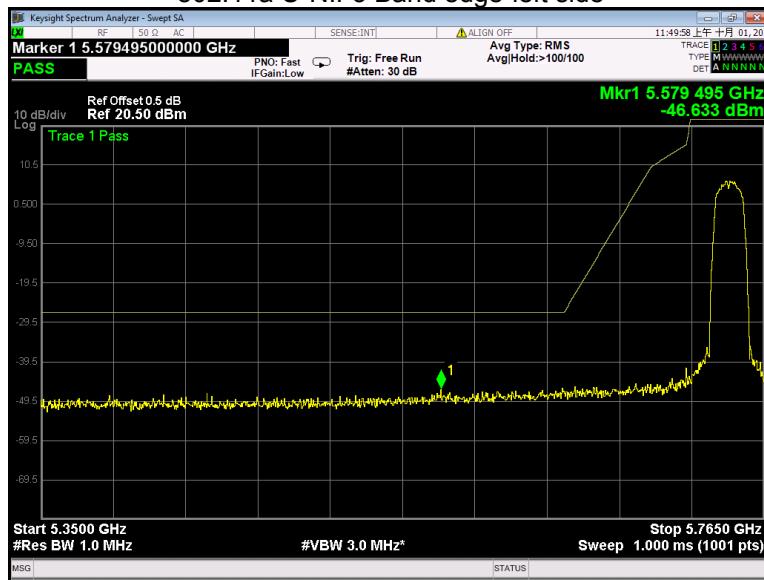
802.11a U-NII-2C Band edge-left side



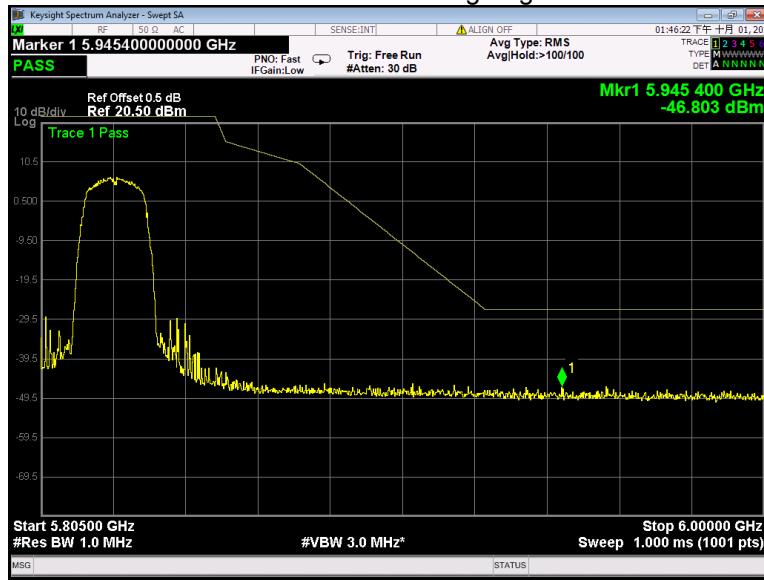
802.11a U-NII-2C Band edge-right side



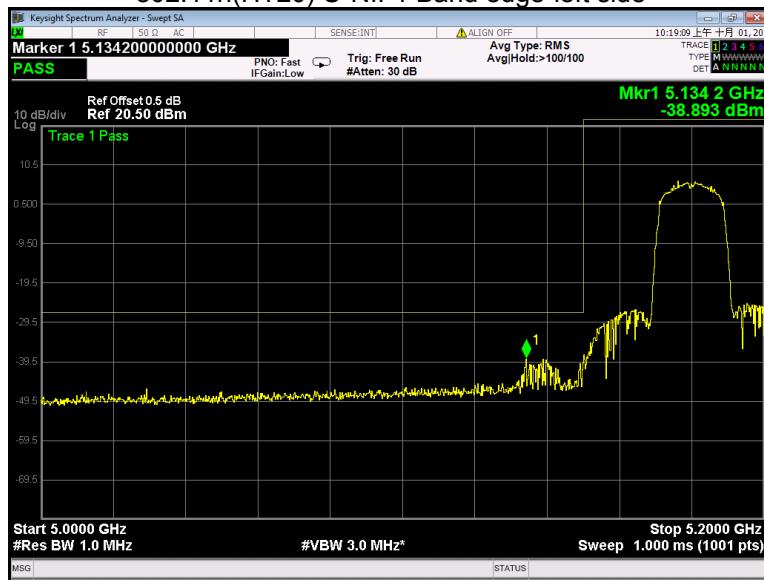
802.11a U-NII-3 Band edge-left side



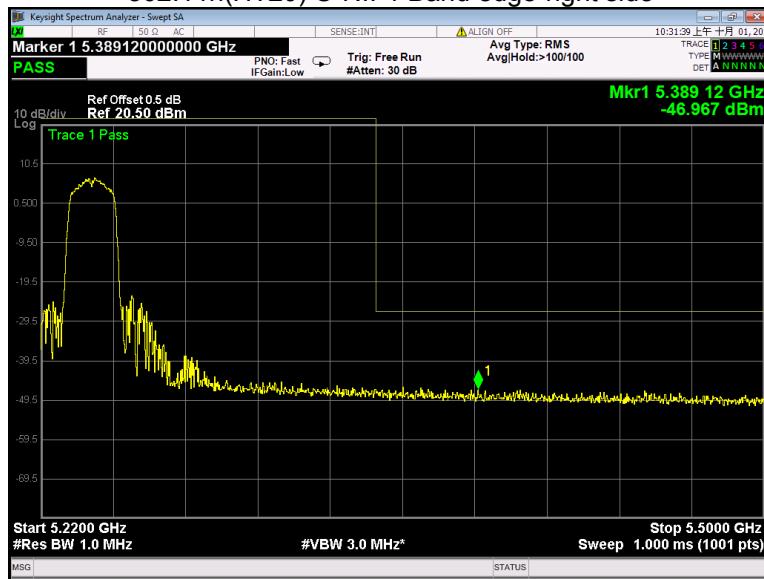
802.11a U-NII-3 Band edge-right side



802.11n(HT20) U-NII-1 Band edge-left side



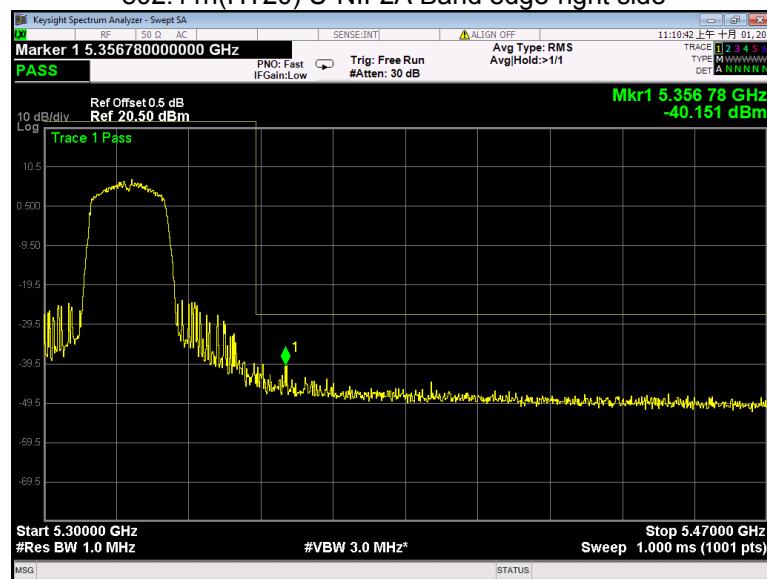
802.11n(HT20) U-NII-1 Band edge-right side



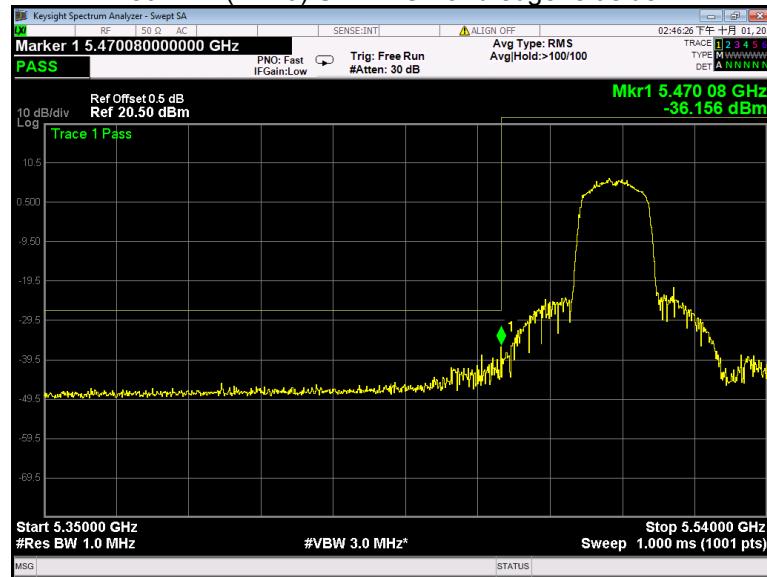
802.11n(HT20) U-NII-2A Band edge-left side



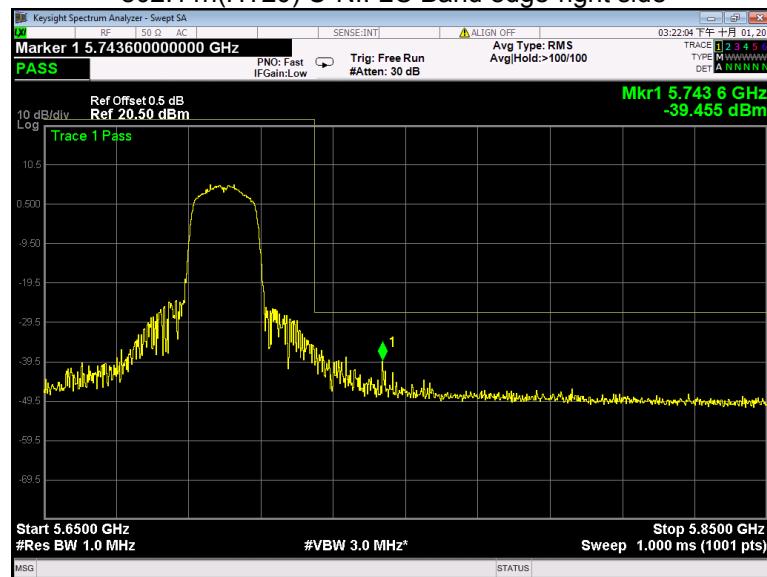
802.11n(HT20) U-NII-2A Band edge-right side



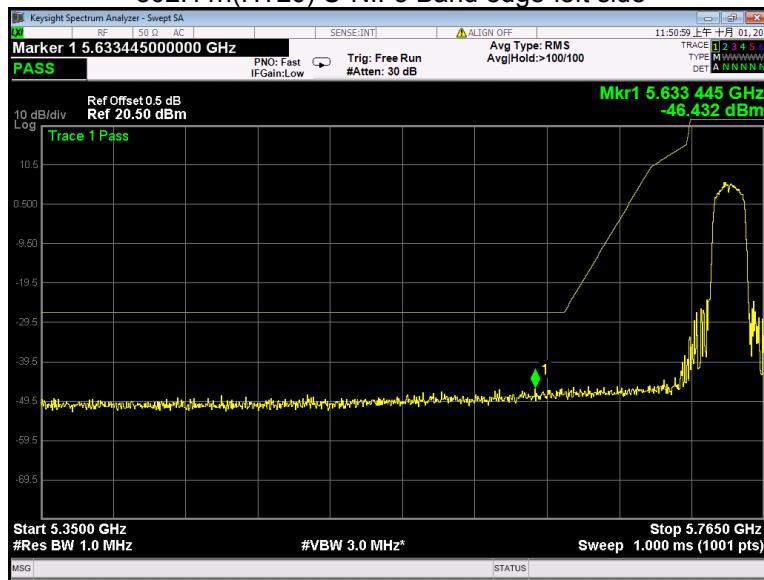
802.11n(HT20) U-NII-2C Band edge-left side



802.11n(HT20) U-NII-2C Band edge-right side



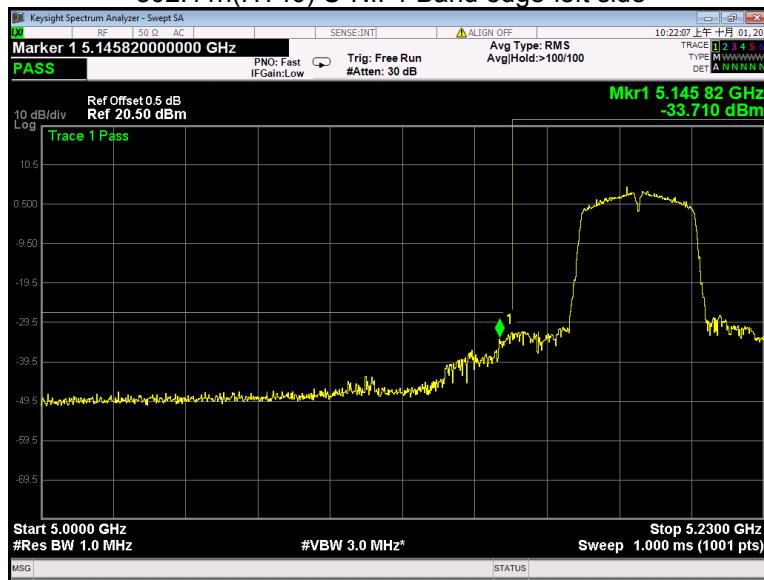
802.11n(HT20) U-NII-3 Band edge-left side



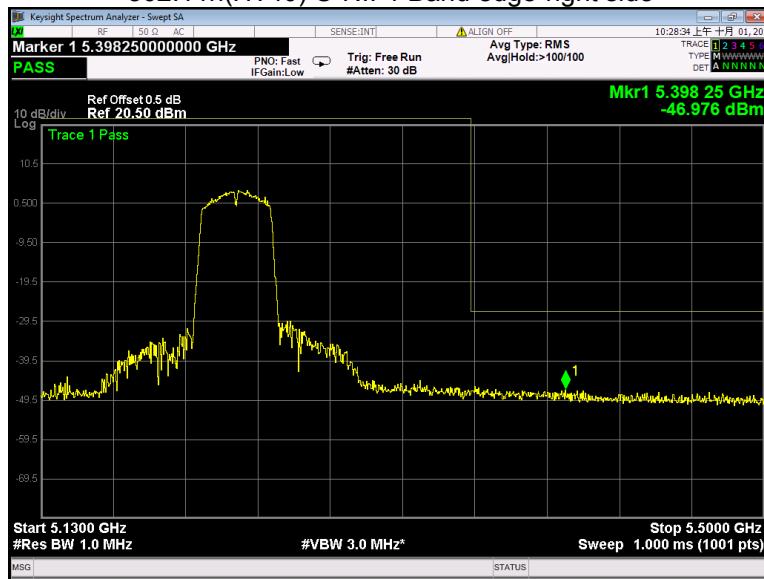
802.11n(HT20) U-NII-3 Band edge-right side



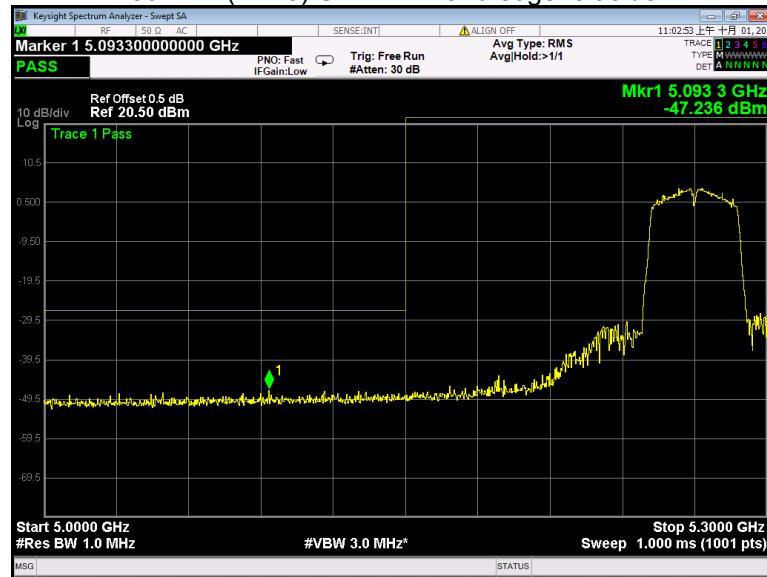
802.11n(HT40) U-NII-1 Band edge-left side



802.11n(HT40) U-NII-1 Band edge-right side



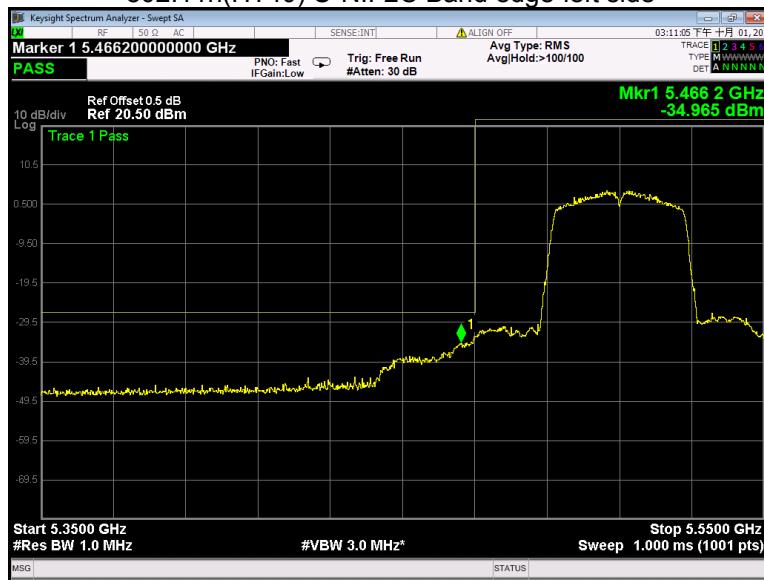
802.11n(HT40) U-NII-2A Band edge-left side



802.11n(HT40) U-NII-2A Band edge-right side



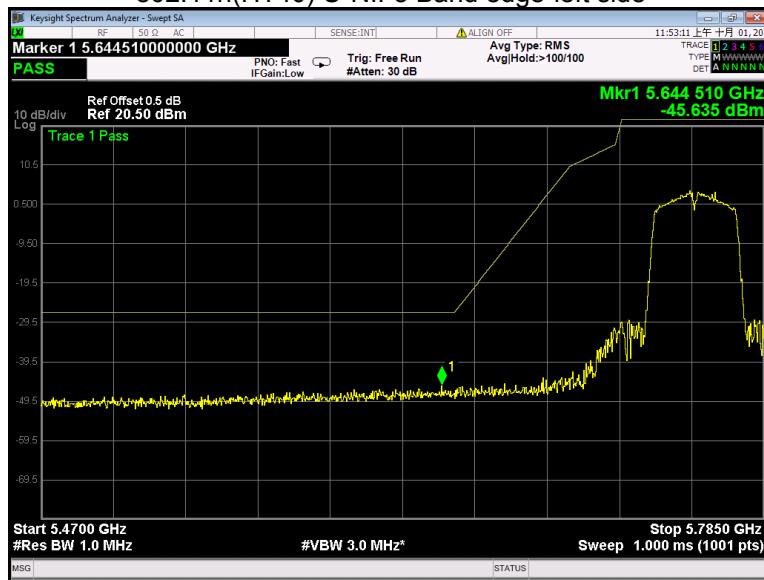
802.11n(HT40) U-NII-2C Band edge-left side



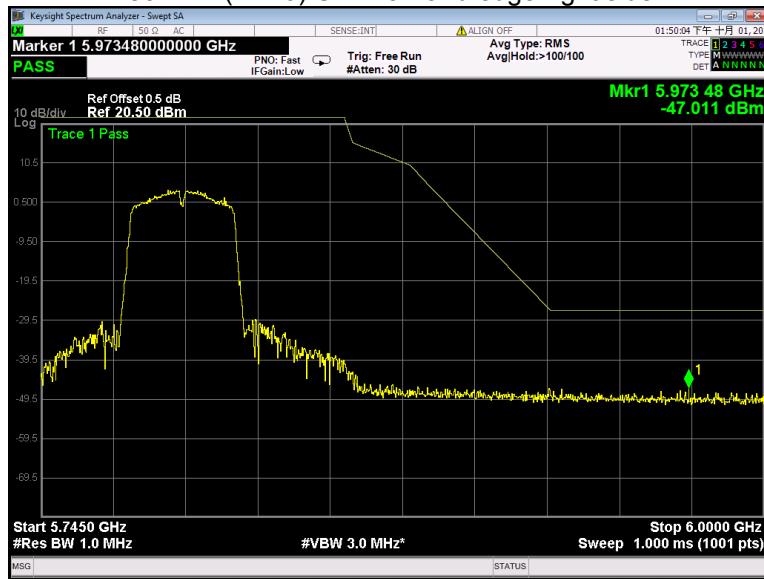
802.11n(HT40) U-NII-2C Band edge-right side



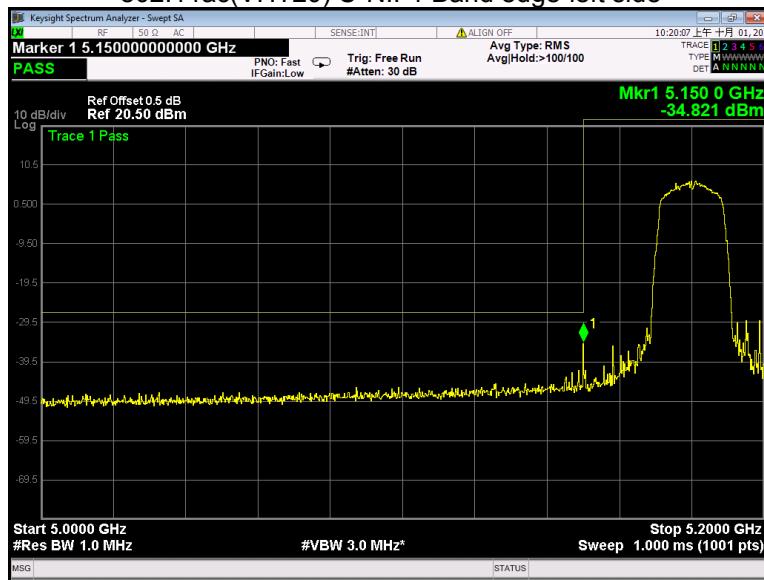
802.11n(HT40) U-NII-3 Band edge-left side



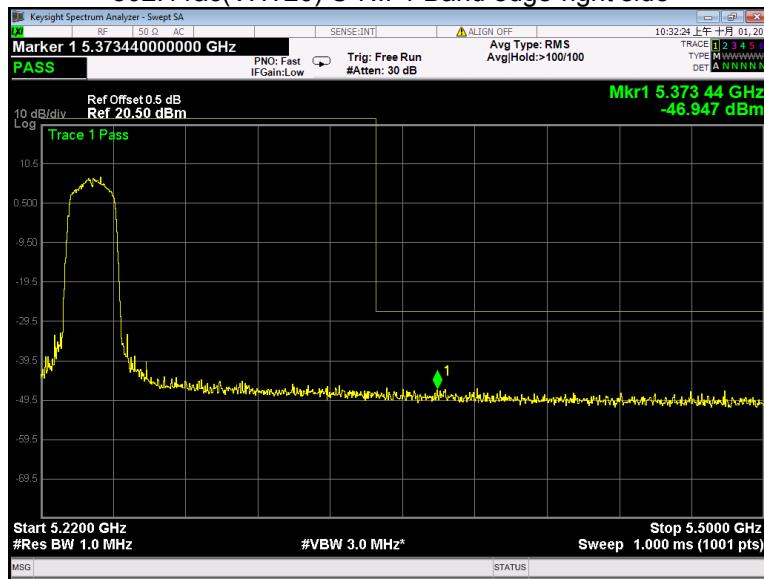
802.11n(HT40) U-NII-3 Band edge-right side



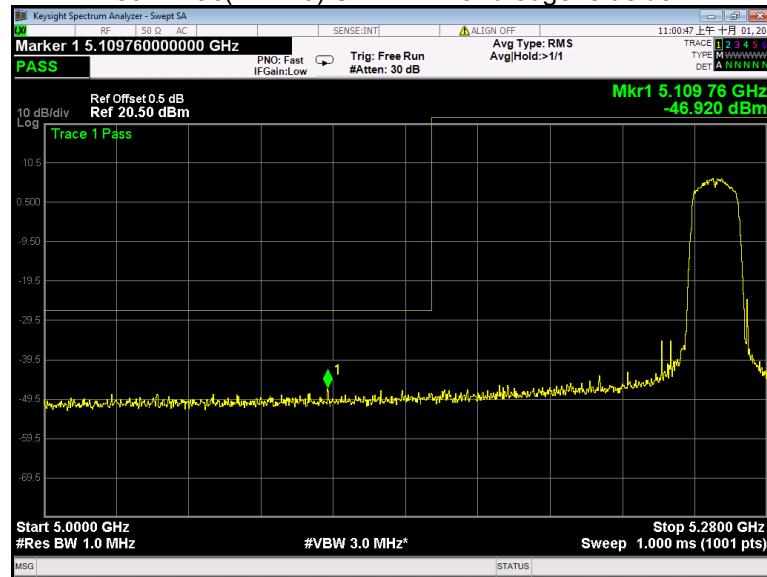
802.11ac(VHT20) U-NII-1 Band edge-left side



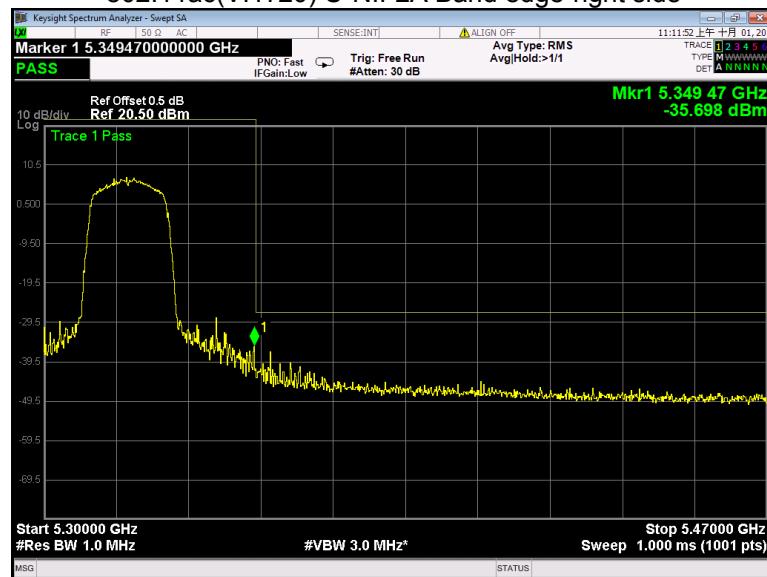
802.11ac(VHT20) U-NII-1 Band edge-right side



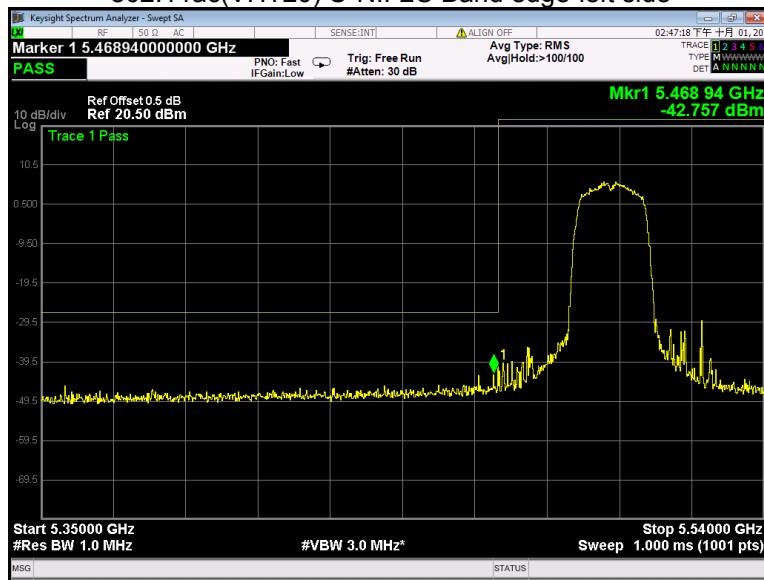
802.11ac(VHT20) U-NII-2A Band edge-left side



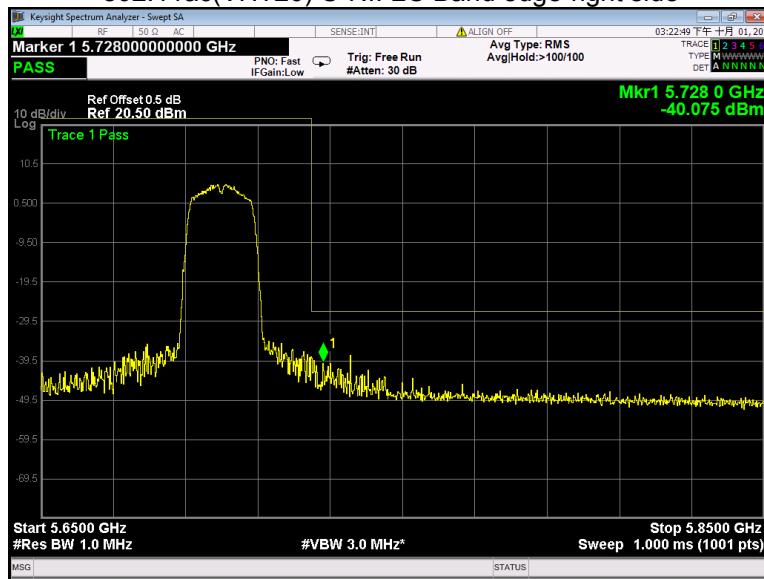
802.11ac(VHT20) U-NII-2A Band edge-right side



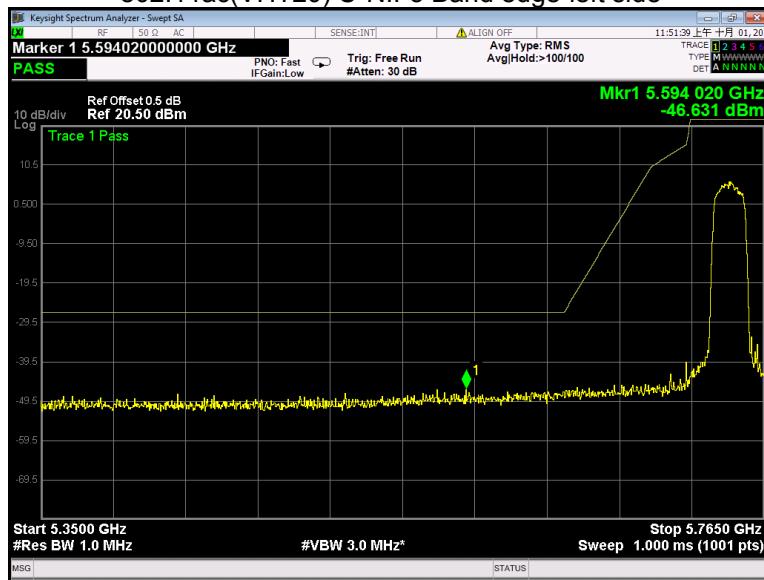
802.11ac(VHT20) U-NII-2C Band edge-left side



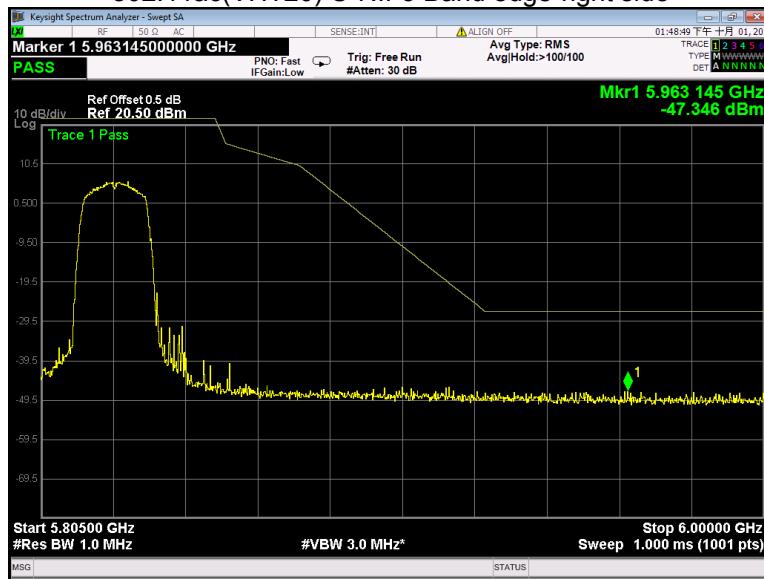
802.11ac(VHT20) U-NII-2C Band edge-right side



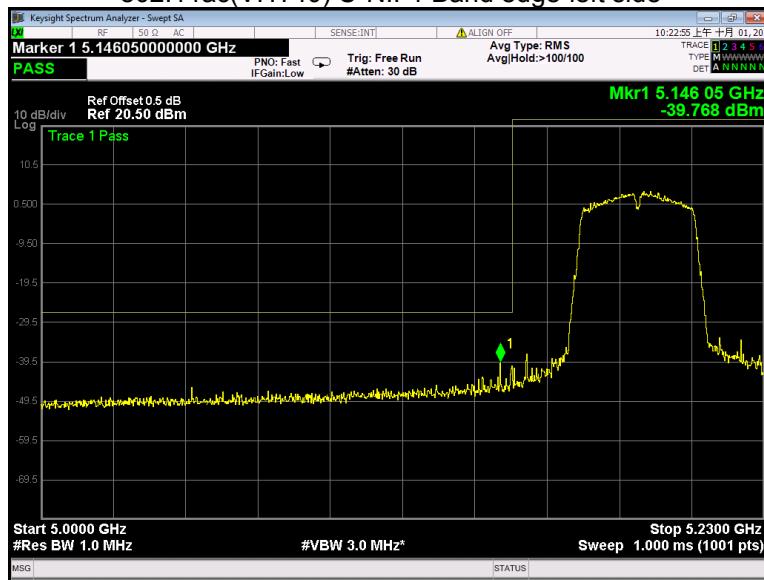
802.11ac(VHT20) U-NII-3 Band edge-left side



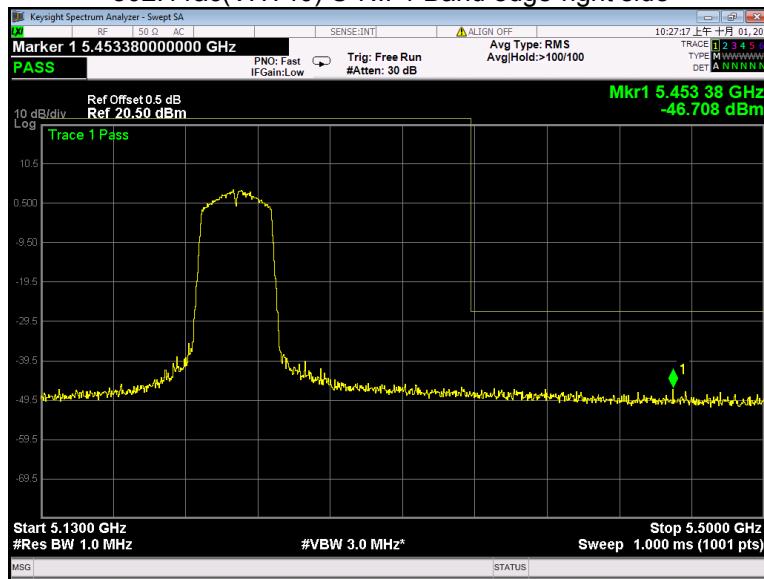
802.11ac(VHT20) U-NII-3 Band edge-right side



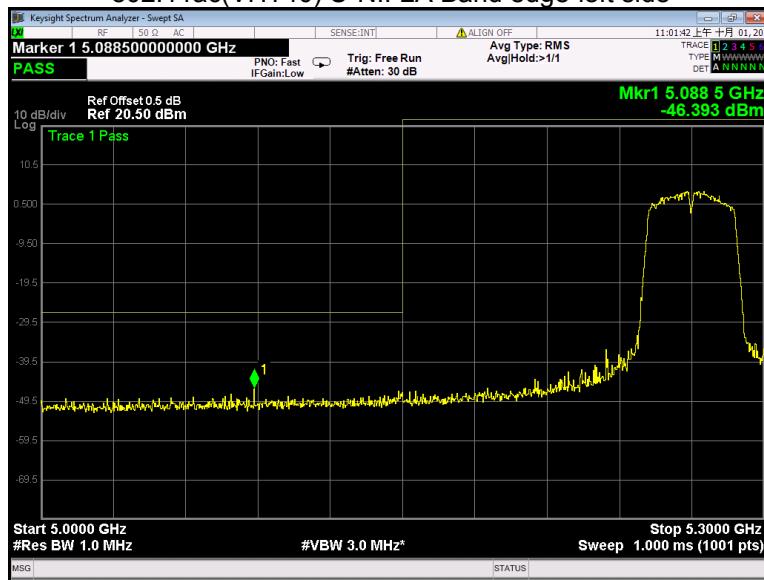
802.11ac(VHT40) U-NII-1 Band edge-left side



802.11ac(VHT40) U-NII-1 Band edge-right side



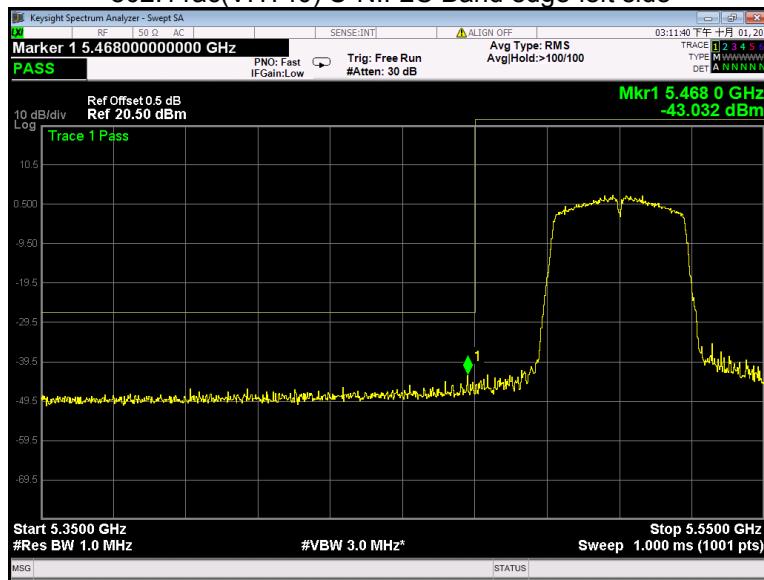
802.11ac(VHT40) U-NII-2A Band edge-left side



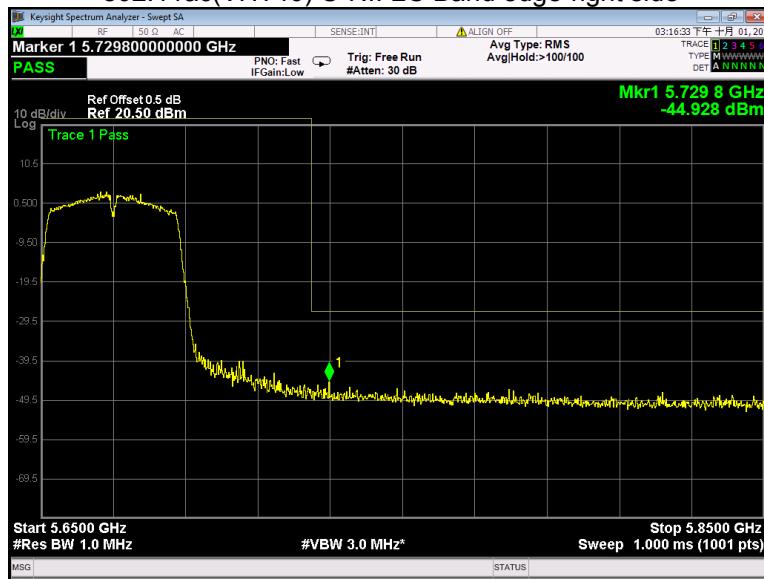
802.11ac(VHT40) U-NII-2A Band edge-right side



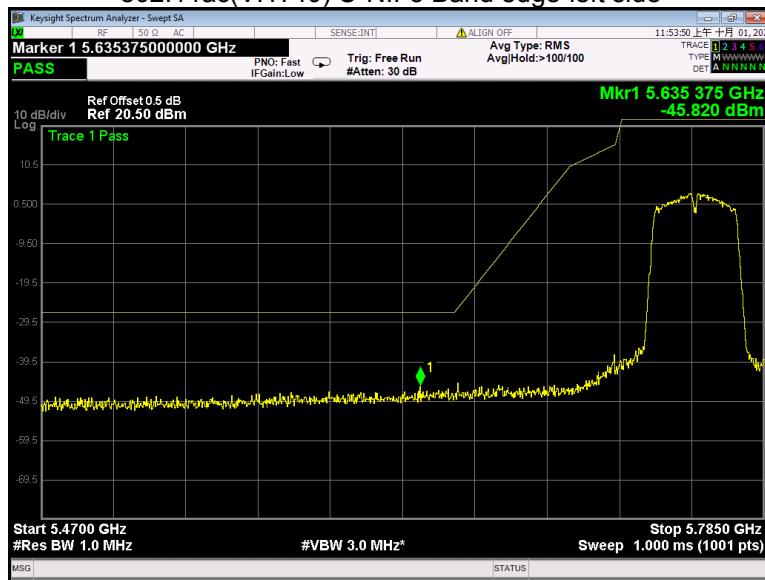
802.11ac(VHT40) U-NII-2C Band edge-left side



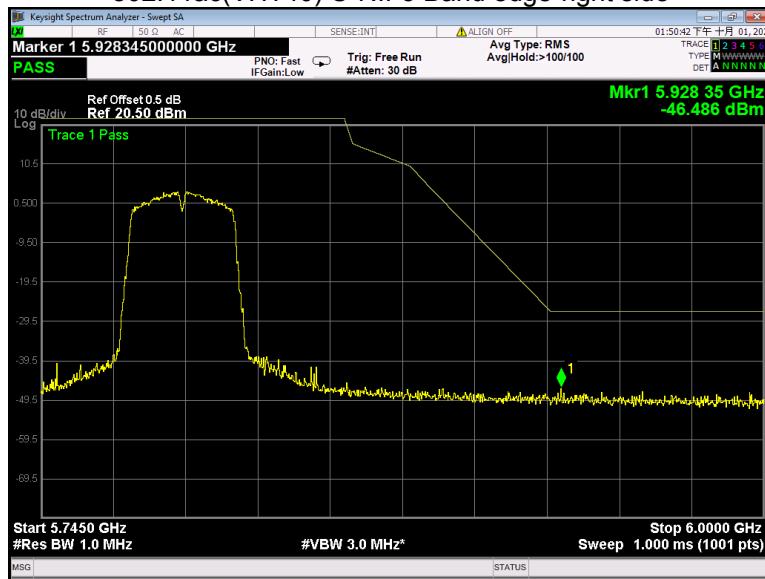
802.11ac(VHT40) U-NII-2C Band edge-right side



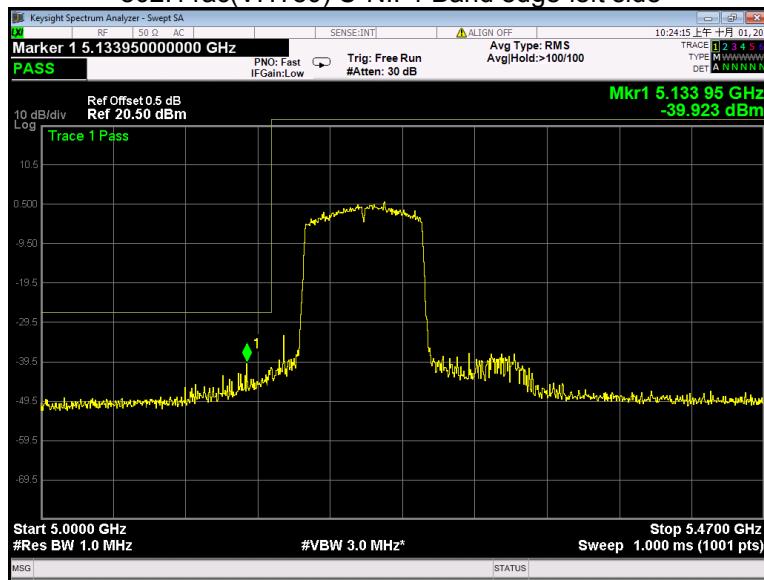
802.11ac(VHT40) U-NII-3 Band edge-left side



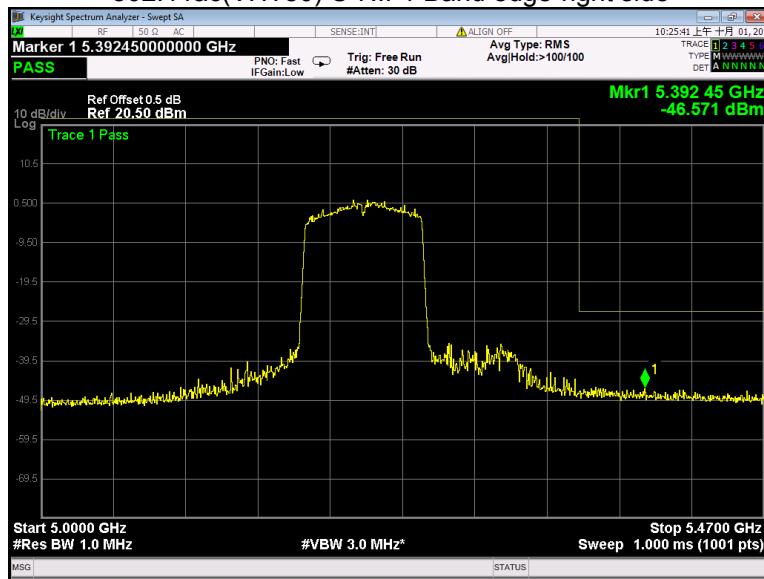
802.11ac(VHT40) U-NII-3 Band edge-right side



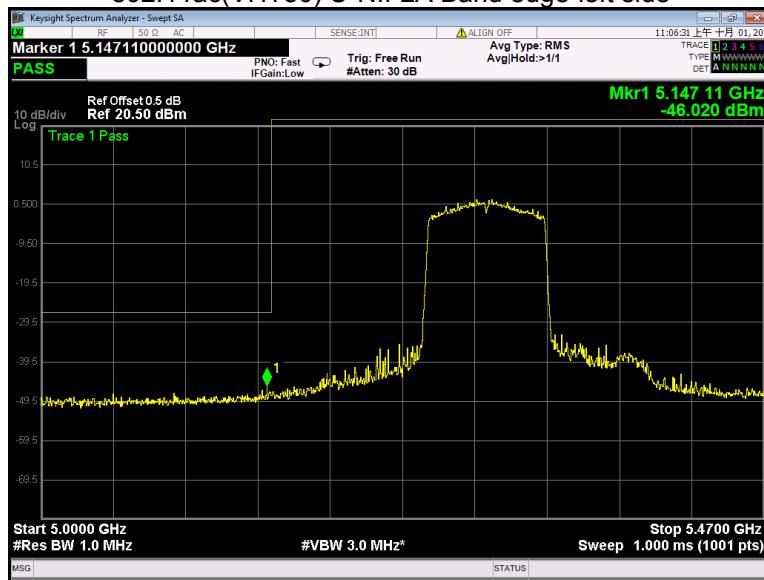
802.11ac(VHT80) U-NII-1 Band edge-left side



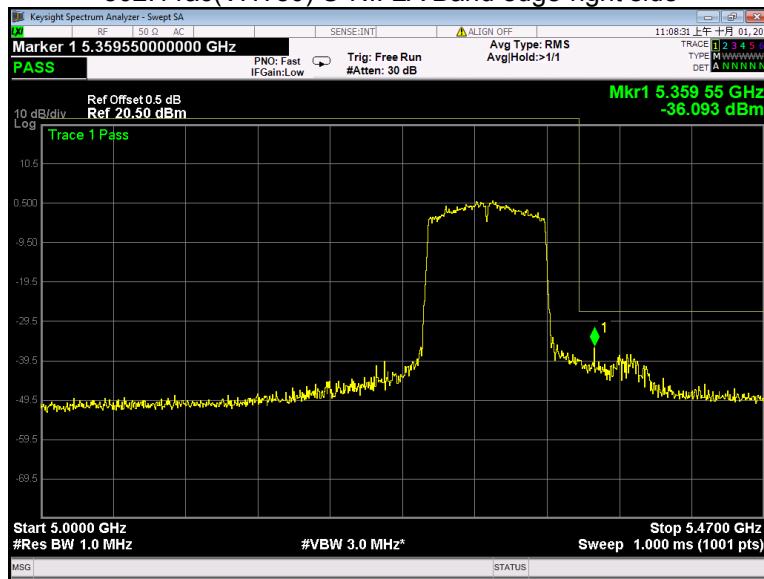
802.11ac(VHT80) U-NII-1 Band edge-right side



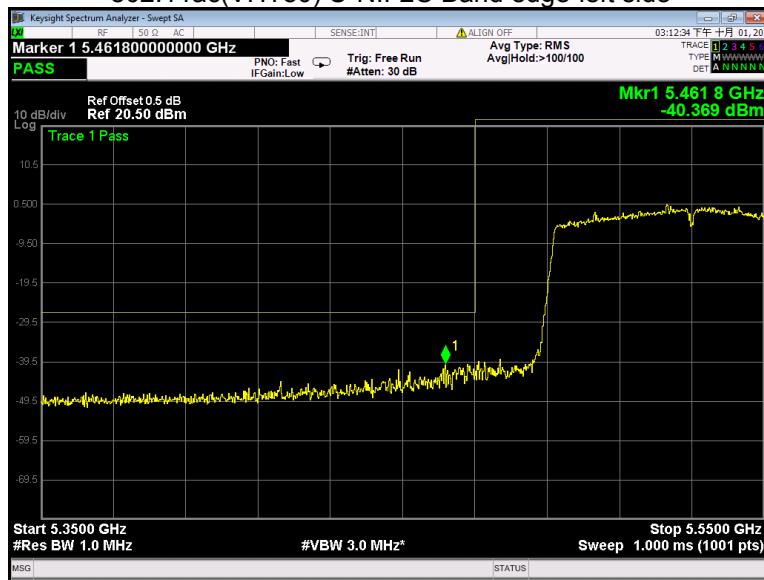
802.11ac(VHT80) U-NII-2A Band edge-left side



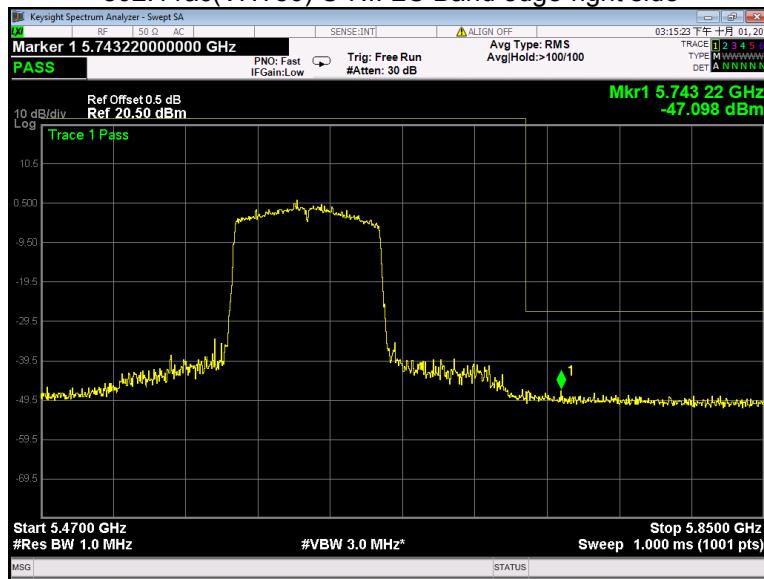
802.11ac(VHT80) U-NII-2A Band edge-right side



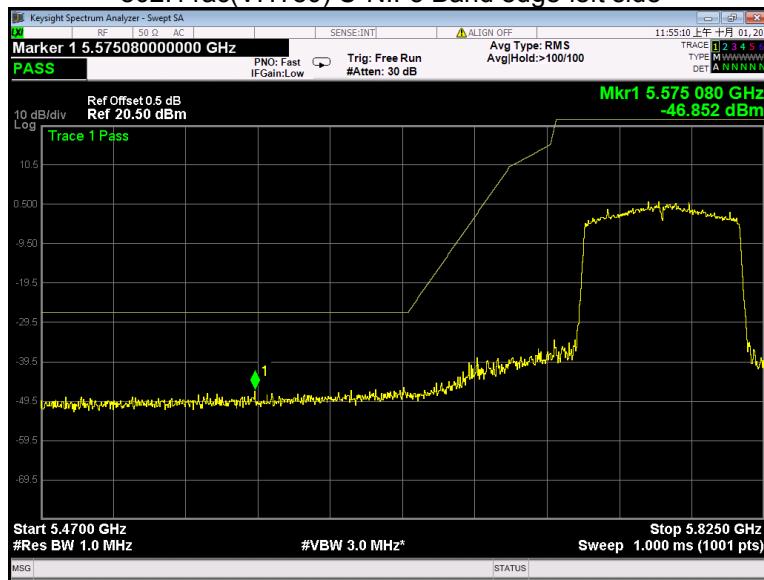
802.11ac(VHT80) U-NII-2C Band edge-left side



802.11ac(VHT80) U-NII-2C Band edge-right side



802.11ac(VHT80) U-NII-3 Band edge-left side



802.11ac(VHT80) U-NII-3 Band edge-right side



11 6 dB Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407(e) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section C
Test Limit:	≥ 500 kHz
Test Result:	PASS

11.1 Test Procedure

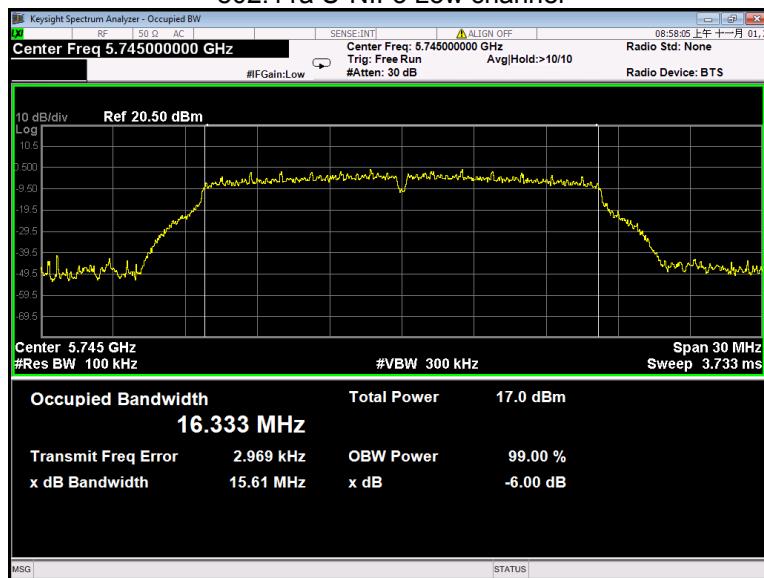
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result

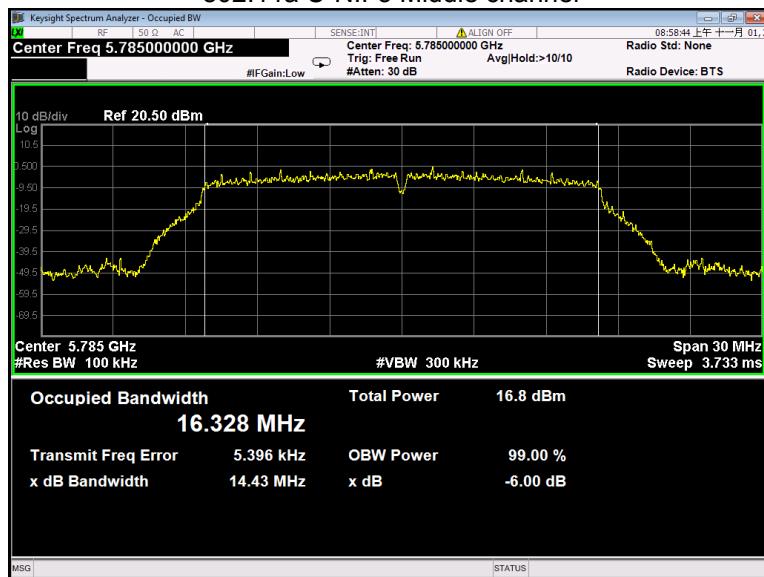
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	15.61	14.43	14.42
	802.11n(HT20)	15.45	15.34	15.07
	802.11n(HT40)	35.09	/	33.74
	802.11ac(VHT20)	15.09	15.11	15.09
	802.11ac(VHT40)	34.06	/	35.05
	802.11ac(VHT80)	75.00	/	/

Test result plots shown as follows:

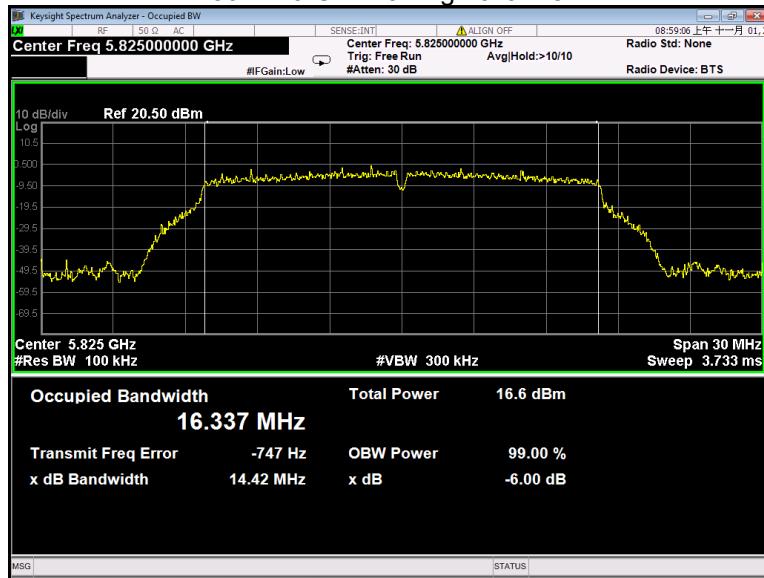
802.11a U-NII-3 Low channel



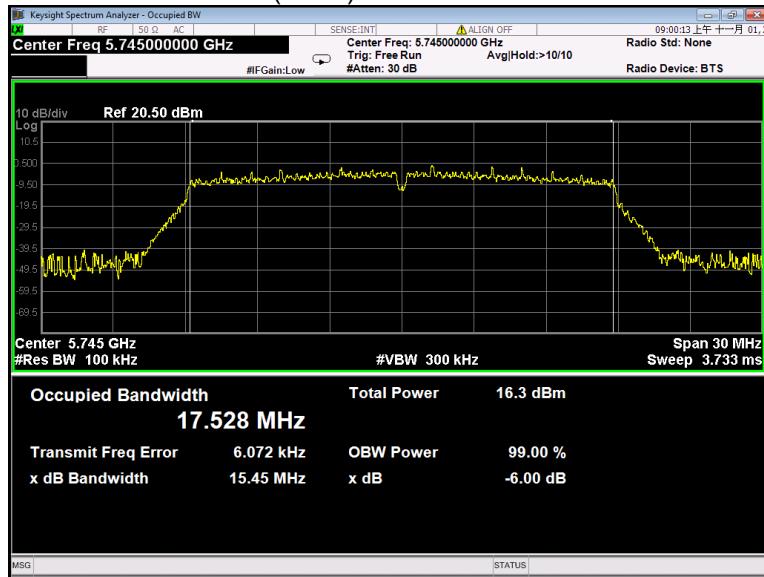
802.11a U-NII-3 Middle channel



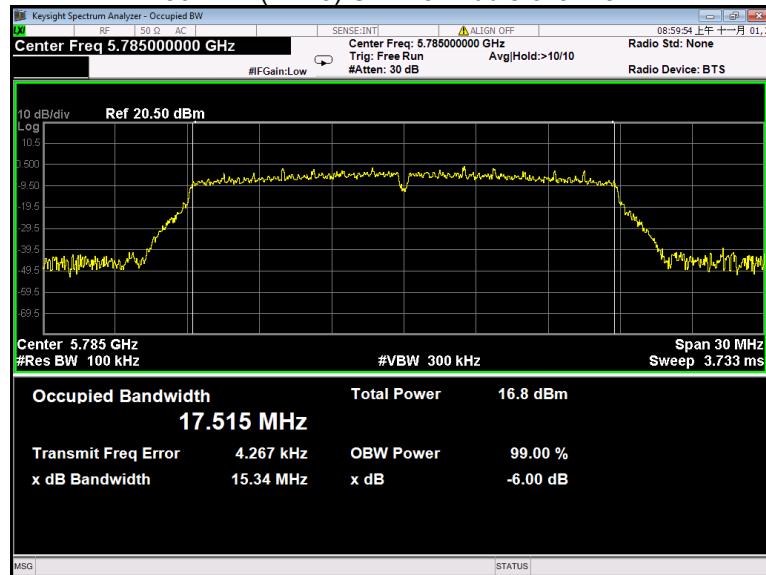
802.11a U-NII-3 High channel



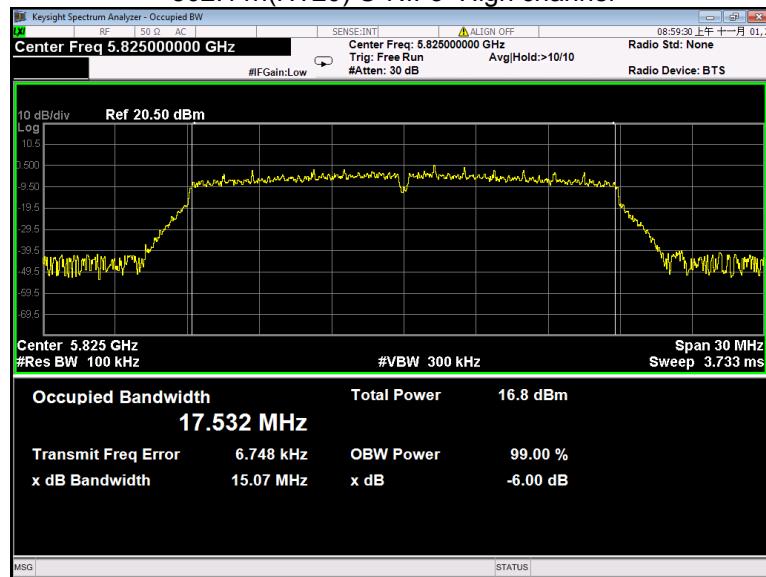
802.11n(HT20) U-NII-3 Low channel



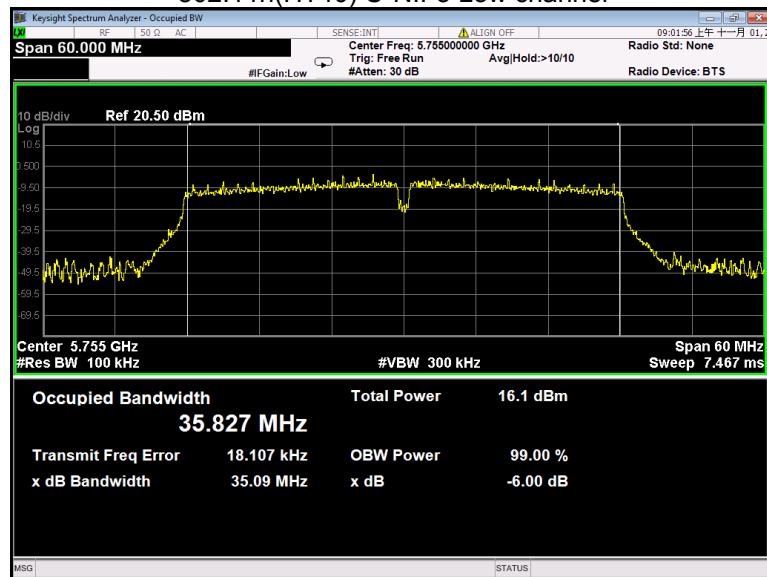
802.11n(HT20) U-NII-3 Middle channel



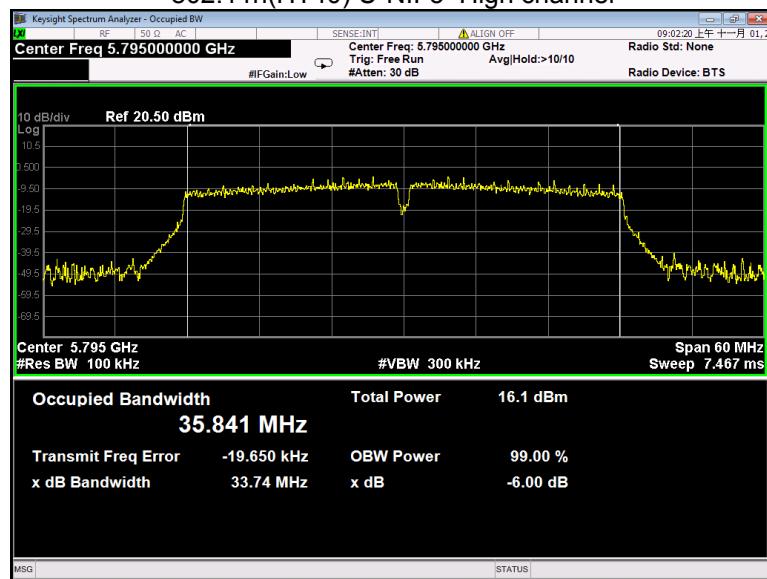
802.11n(HT20) U-NII-3 High channel



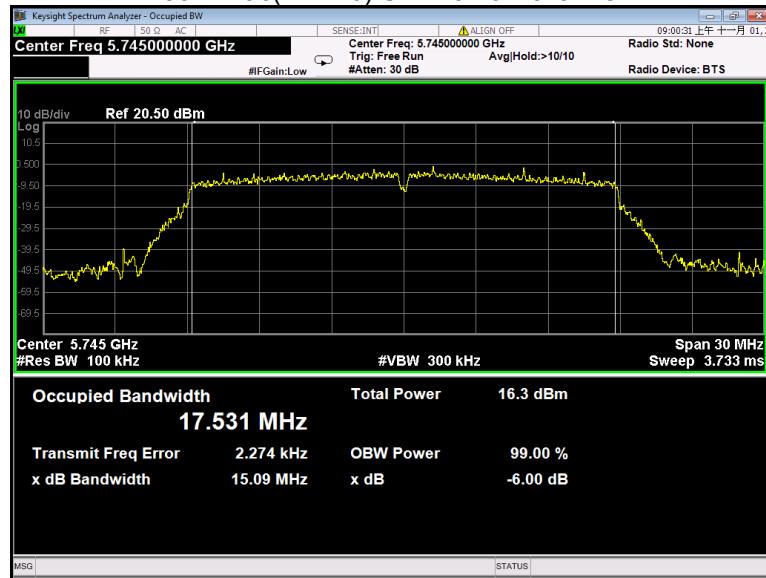
802.11n(HT40) U-NII-3 Low channel



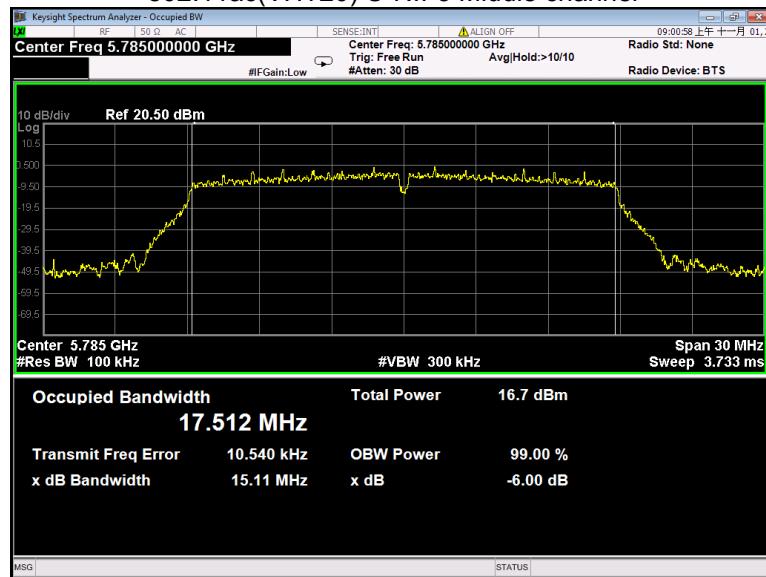
802.11n(HT40) U-NII-3 High channel



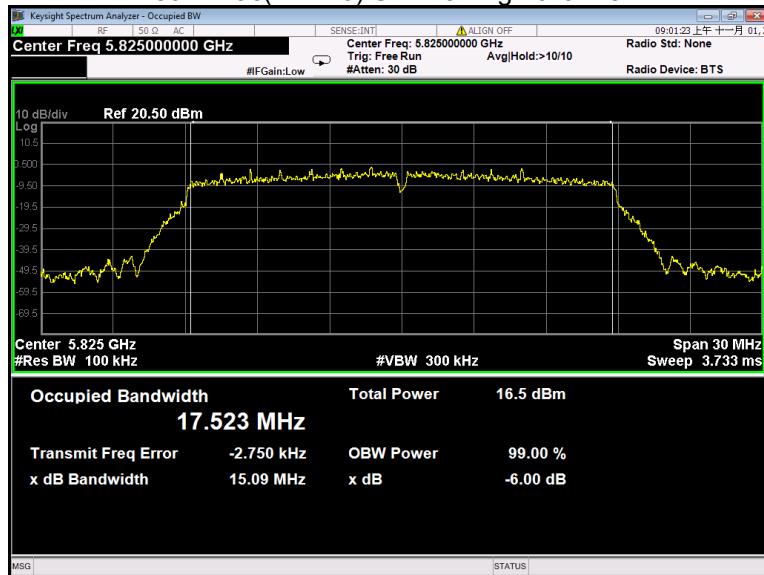
802.11ac(VHT20) U-NII-3 Low channel



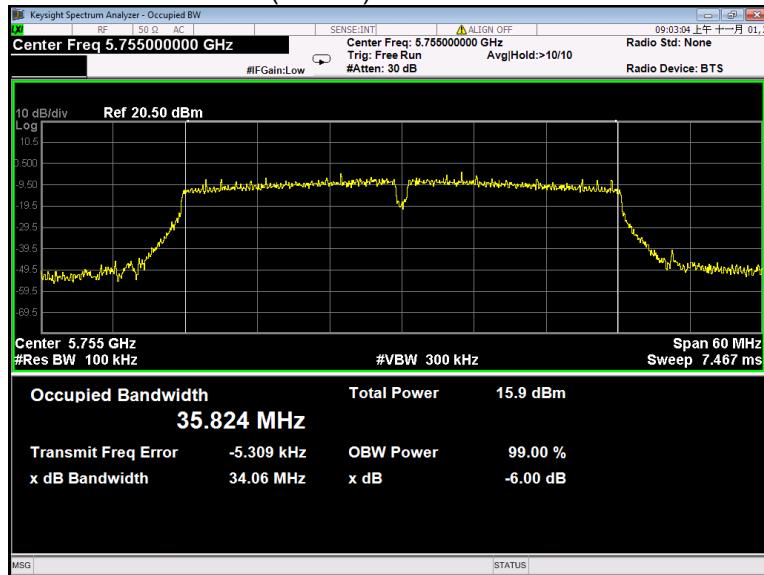
802.11ac(VHT20) U-NII-3 Middle channel



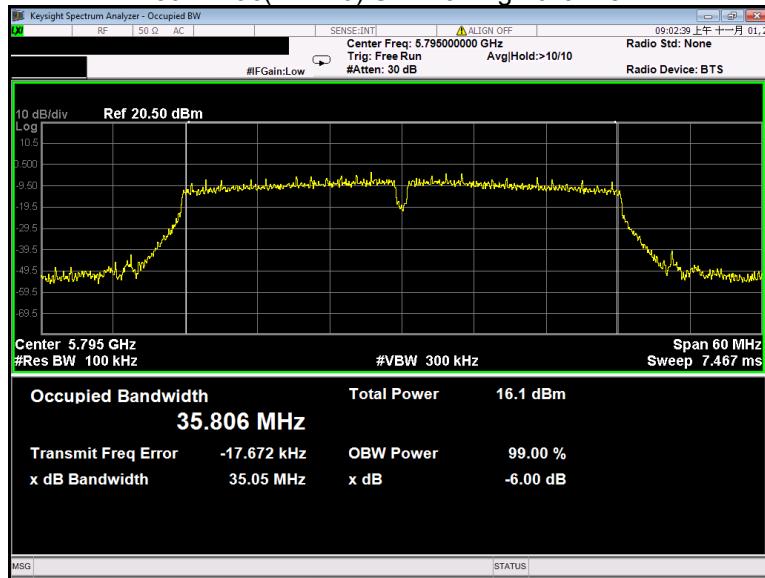
802.11ac(VHT20) U-NII-3 High channel



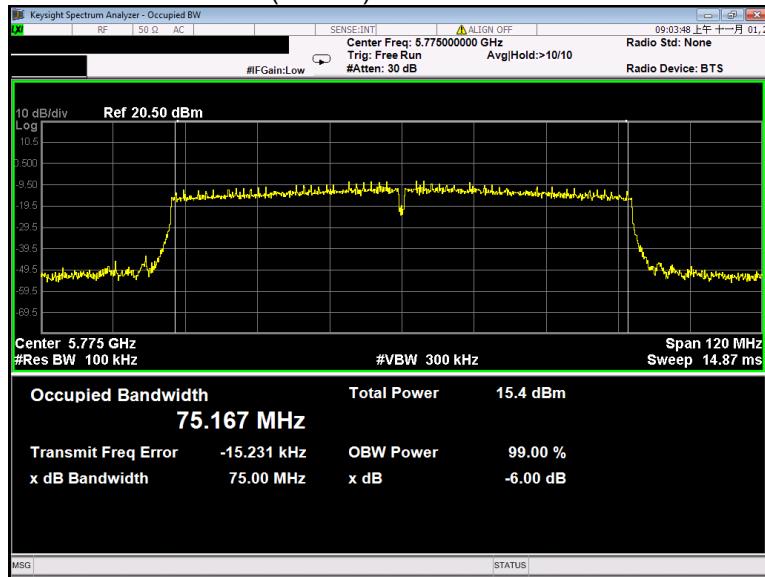
802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel



12 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407 (a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section D
Test Limit:	No restriction limits
Test Result:	PASS

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1% to 5% of the OBW, VBW = 3x RBW

12.2 Test Result

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	19.86	19.99	19.93	16.459	16.471	16.433
	802.11n(HT20)	20.14	20.40	20.23	17.563	17.556	17.582
	802.11n(HT40)	40.30	/	39.93	35.910	/	35.973
	802.11ac(VHT20)	20.09	20.12	20.19	17.564	17.570	17.590
	802.11ac(VHT40)	40.21	/	40.15	35.976	/	35.895
	802.11ac(VHT80)	80.23	/	/	75.302	/	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2A	802.11a	20.05	19.59	19.64	16.469	16.459	16.436
	802.11n(HT20)	20.17	20.09	20.14	17.566	17.572	17.582
	802.11n(HT40)	40.26	/	39.98	35.995	/	35.937
	802.11ac(VHT20)	20.28	19.96	20.18	17.585	17.565	17.558
	802.11ac(VHT40)	40.19	/	40.34	35.979	/	35.967
	802.11ac(VHT80)	80.16	/	/	75.191	/	/

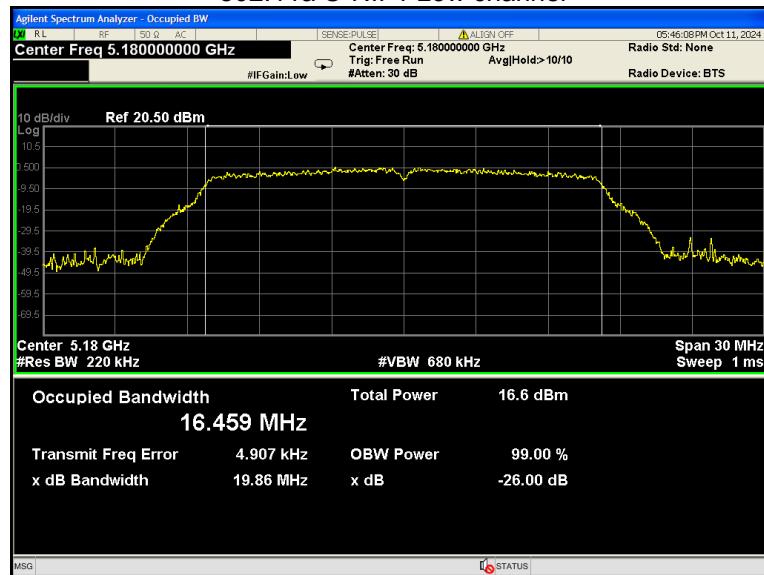
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2C	802.11a	19.78	19.83	19.81	16.440	16.447	16.430
	802.11n(HT20)	20.22	20.08	20.12	17.585	17.557	17.562
	802.11n(HT40)	39.96	40.41	39.91	35.994	36.004	36.002
	802.11ac(VHT20)	20.18	20.11	20.25	17.553	17.584	17.534
	802.11ac(VHT40)	40.47	40.27	40.24	35.930	35.913	35.946
	802.11ac(VHT80)	80.54	80.46	/	75.367	75.280	/

Band	Operation mode	99% Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.457	16.415	16.431
	802.11n(HT20)	17.548	17.563	17.557
	802.11n(HT40)	35.935	/	35.957
	802.11ac(VHT20)	17.612	17.555	17.578
	802.11ac(VHT40)	35.919	/	35.972
	802.11ac(VHT80)	75.347	/	/

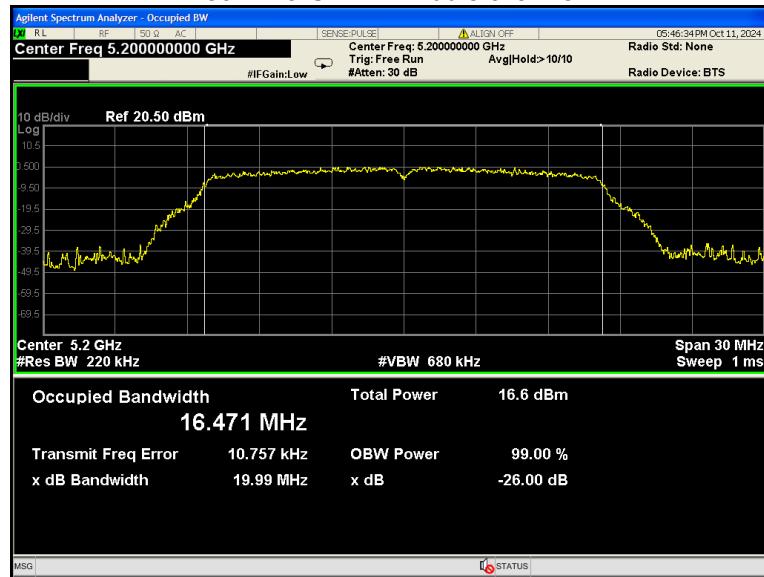
Test result plots shown as follows:

26 dB Bandwidth and 99% Occupied Bandwidth

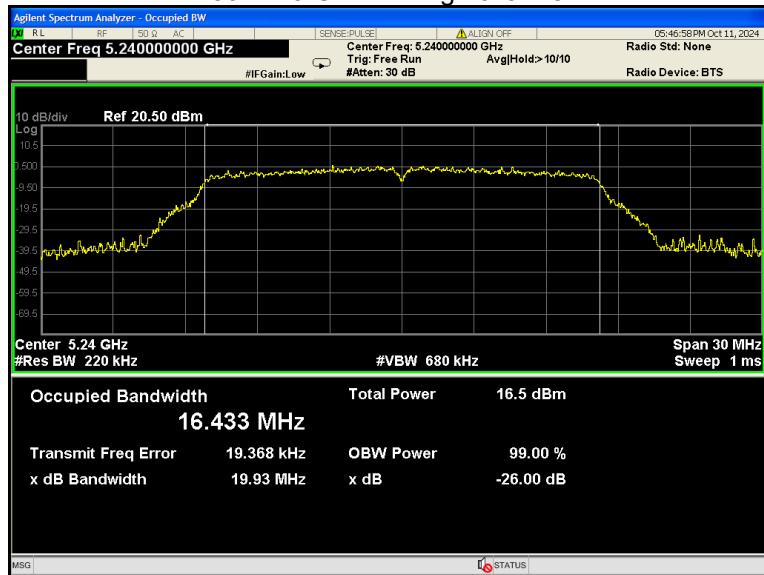
802.11a U-NII-1 Low channel



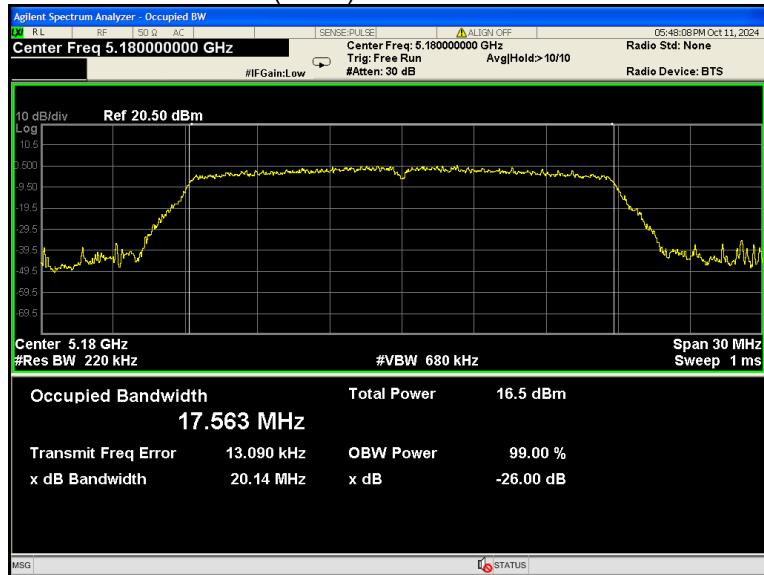
802.11a U-NII-1 Middle channel



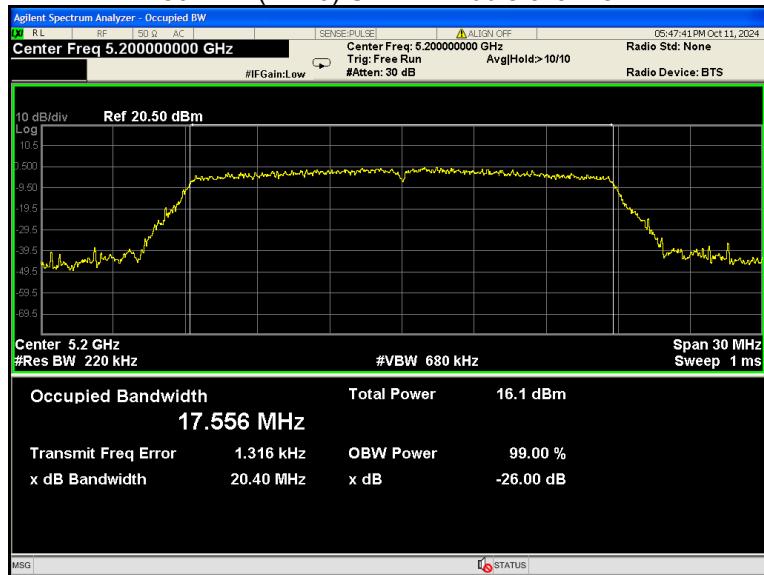
802.11a U-NII-1 High channel



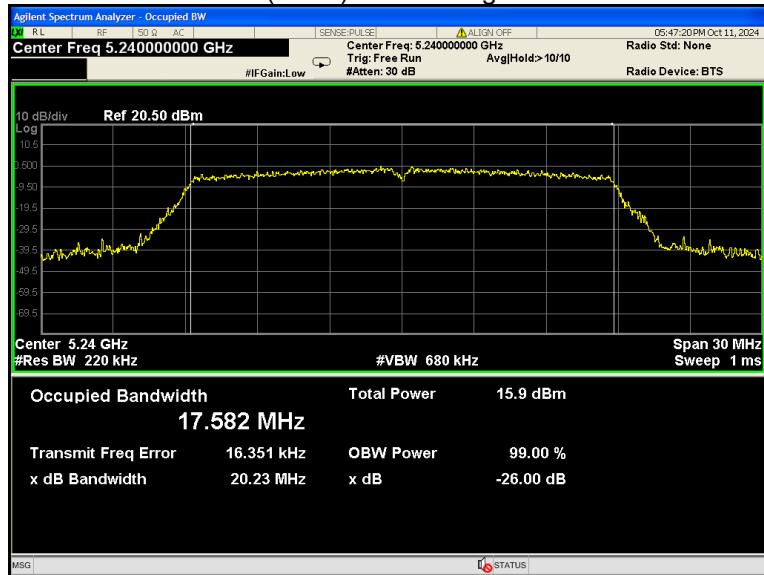
802.11n(HT20) U-NII-1 Low channel



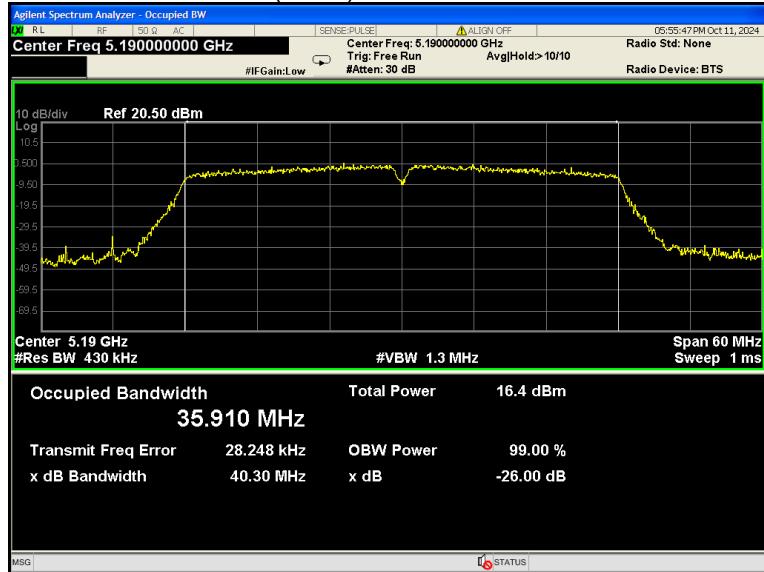
802.11n(HT20) U-NII-1 Middle channel



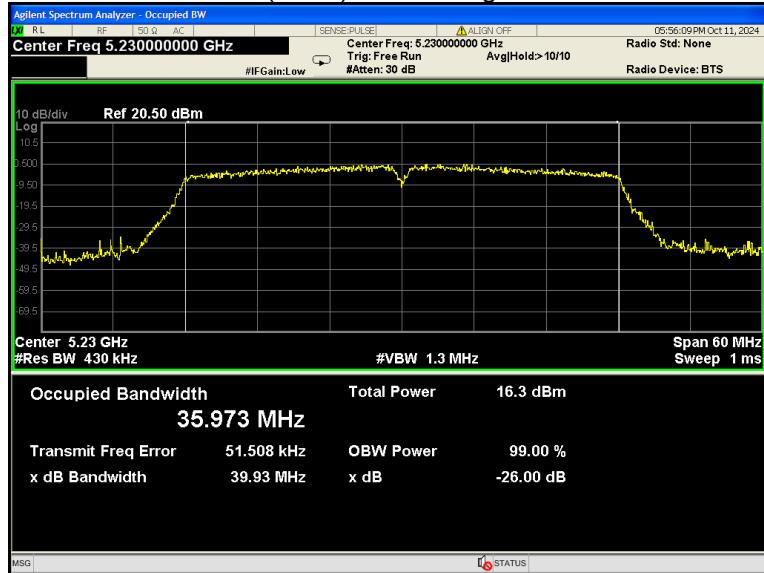
802.11n(HT20) U-NII-1 High channel



802.11n(HT40) U-NII-1 Low channel



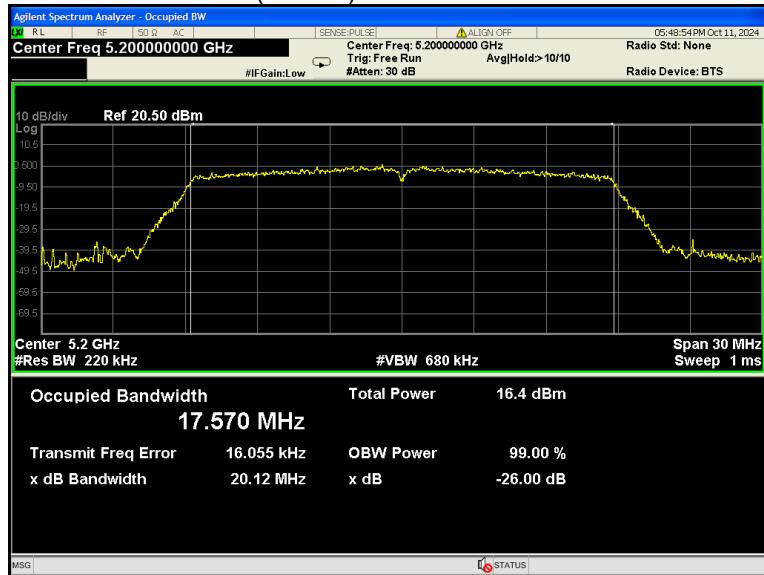
802.11n(HT40) U-NII-1 High channel



802.11ac(VHT20) U-NII-1 Low channel



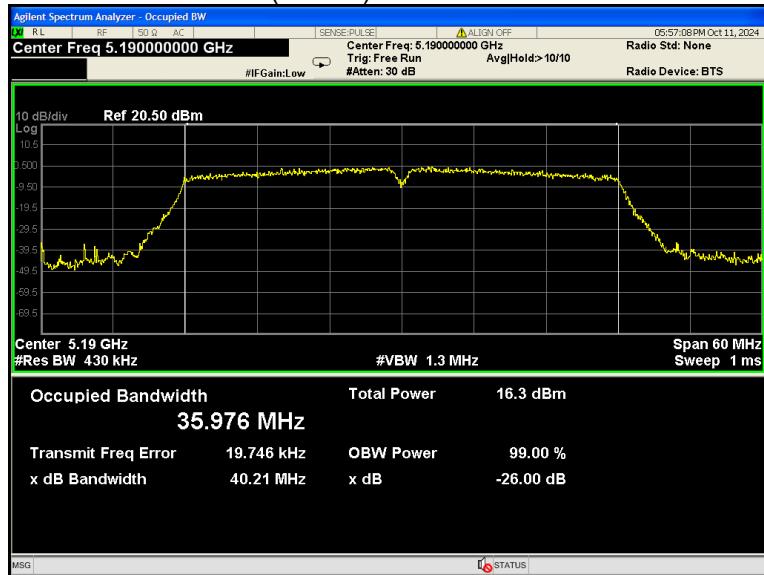
802.11ac(VHT20) U-NII-1 Middle channel



802.11ac(VHT20) U-NII-1 High channel



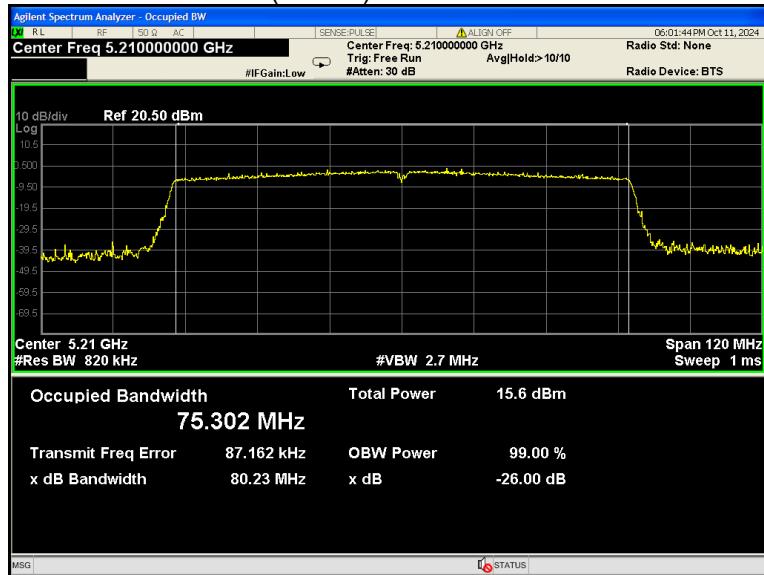
802.11ac(VHT40) U-NII-1 Low channel



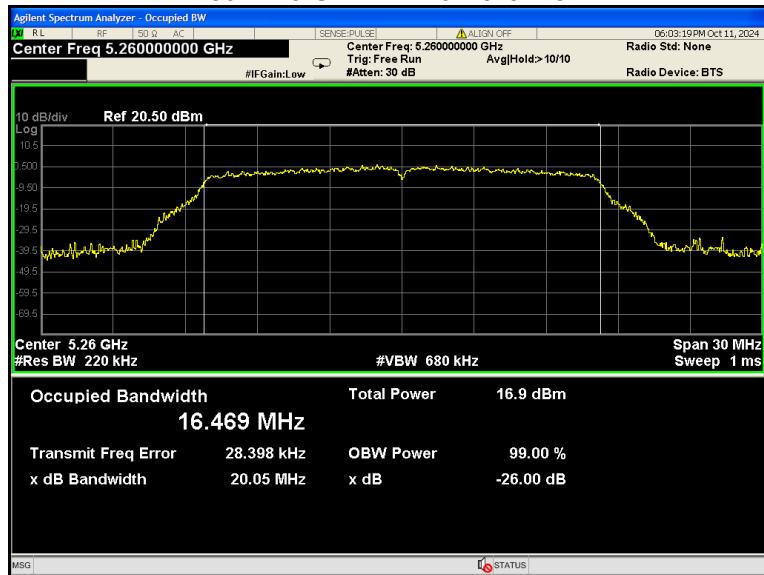
802.11 ac(VHT40) U-NII-1 High channel



802.11ac(VHT80) U-NII-1 Low channel



802.11a U-NII-2A Low channel



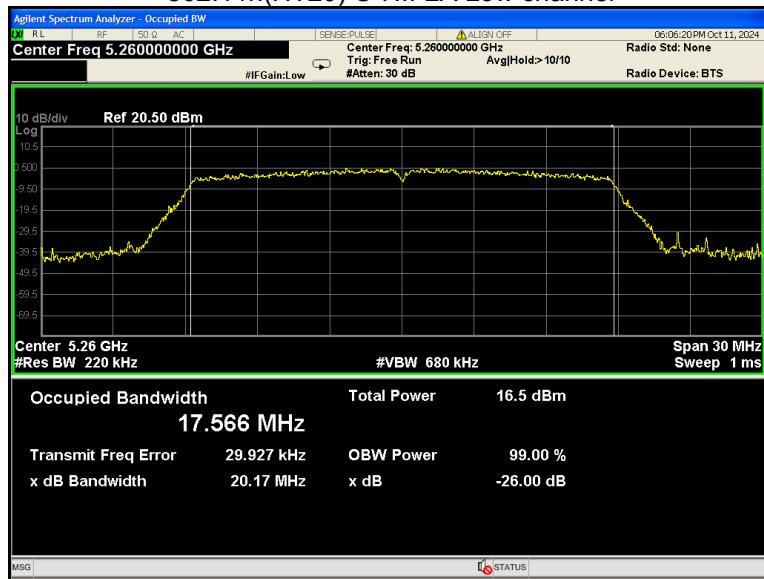
802.11a U-NII-2A Middle channel



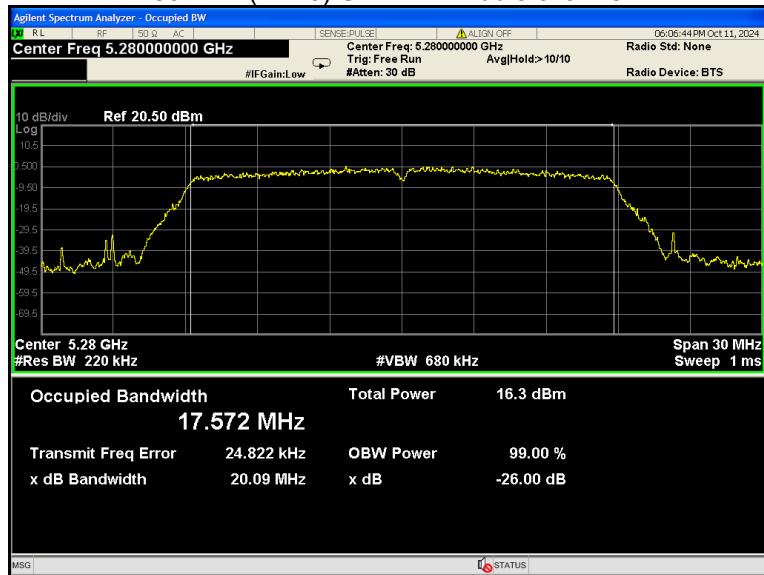
802.11a U-NII-2A High channel



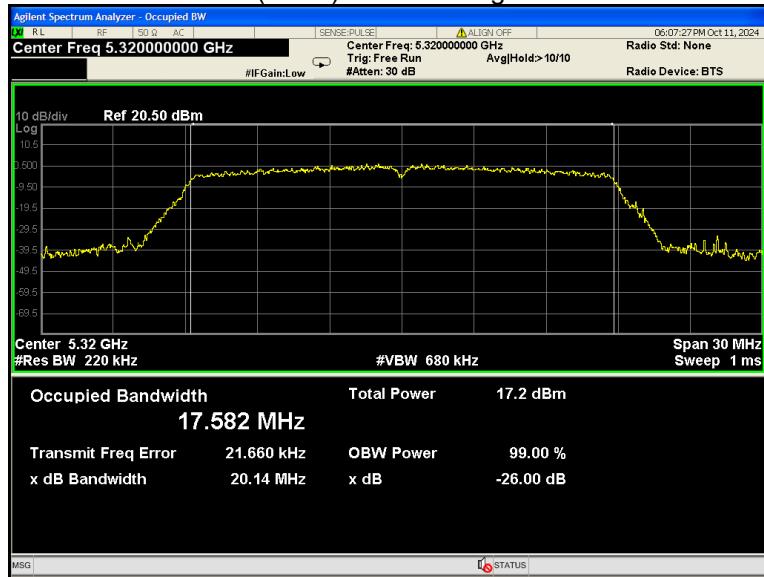
802.11n(HT20) U-NII-2A Low channel



802.11n(HT20) U-NII-2A Middle channel



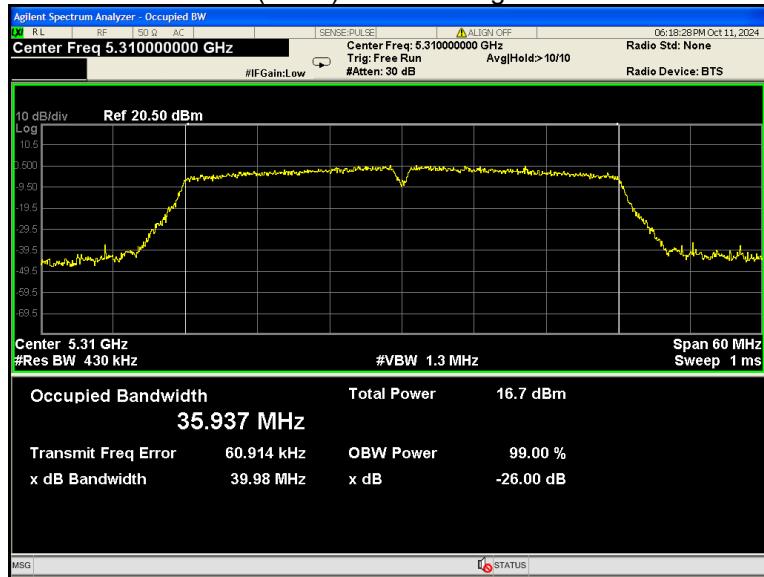
802.11n(HT20) U-NII-2A High channel



802.11n(HT40) U-NII-2A Low channel



802.11n(HT40) U-NII-2A High channel



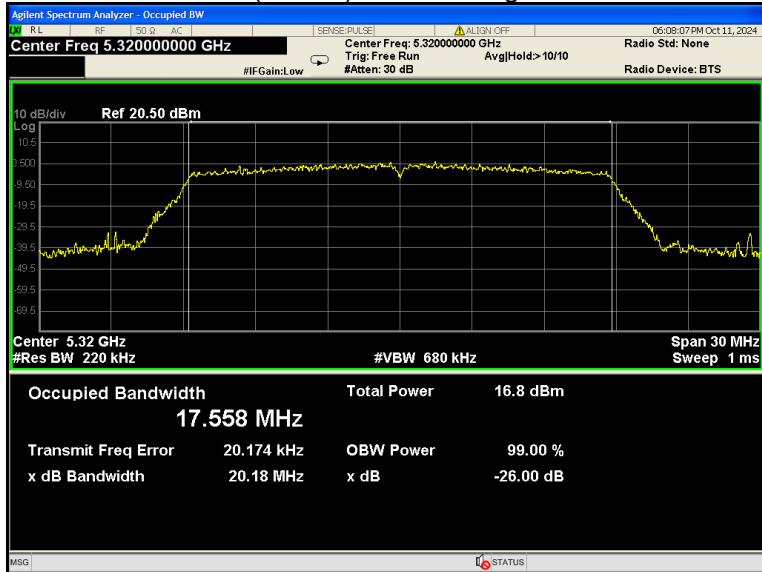
802.11ac(VHT20) U-NII-2A Low channel



802.11ac(VHT20) U-NII-2A Middle channel



802.11ac(VHT20) U-NII-2A High channel



802.11ac(VHT40) U-NII-2A Low channel

