

TEST REPORT

Reference No. : WTD25D12325818W003
FCC ID..... : 2BRD6-V1711AT
Applicant : Tech-Top Technology Limited
Address : Unit 1602, 16/F, Enterprise Square III, 39 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
Manufacturer : Tech-Top Technology Limited
Address : Unit 1602, 16/F, Enterprise Square III, 39 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
Product Name : Wireless 1080p HDMI Transmitter with Dual Receivers (TX)
Model No. : V1711, V1711A, V1711B, V1711C, V1711D, V1711E, V1711F, V1710A, V1710B, V1710C, V1710D, V1705A, V1707A, V1711ABK, V1711ABK01, V1711ABK02, V1711FBK, V1711FBK01, V1711FBK02, V1717A, V1717B, V1717C, V1717D
Standards : FCC 47CFR Part 15 Section 15.407
Date of Receipt Sample : 2025-12-15
Date of Test..... : 2025-12-18 to 2026-03-12
Date of Issue : 2026-03-18
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
WTD25D12325818W003	2025-12-15	2025-12-18 to 2026-03-12	2026-03-18	original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Wireless 1080p HDMI Transmitter with Dual Receivers (TX)
Model(s):	V1711, V1711A, V1711B, V1711C, V1711D, V1711E, V1711F, V1710A, V1710B, V1710C, V1710D, V1705A, V1707A, V1711ABK, V1711ABK01, V1711ABK02, V1711FBK, V1711FBK01, V1711FBK02, V1717A, V1717B, V1717C, V1717D
Model Description:	Only the model names and appearance color are different. The model V1711 was tested in this report.
Test Sample No.:	1-1/1
Wi-Fi Specification:	5G-802.11a/n(HT20/40)
Hardware Version:	V1705A_TX(TECH)_4LPCB1.0
Software Version:	Win7_MP_Kit_RTL11n_8733BU_USB_v0.45_2023...

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n(HT20): 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): U-NII-1: 5190-5230MHz, U-NII-2A: 5270-5310MHz(DFS), U-NII-2C: 5510-5670MHz(DFS), U-NII-3: 5755-5795MHz
Max. RF output power:	U-NII-1: 16.60dBm U-NII-2A: 17.66dBm U-NII-2C: 18.02dBm U-NII-3: 16.85dBm
Type of Modulation:	OFDM
Antenna installation:	2.4G/5G Dual Frequency Antenna
Antenna Gain:	U-NII-1: 1.27dBi U-NII-2A: 1.23dBi U-NII-2C: 1.52dBi U-NII-3: 0.54dBi
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:	DC 5.0V

4.3 Channel List

U-NII-1 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	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	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	108	5540
110	5550	112	5560
116	5580	118	5590
120	5600	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	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(HT20):

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(HT40):

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

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(HT20/40)	MCS0	TX
Duty Cycle	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Band Edge	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
6dB Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Maximum Conducted Output Power	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Power Spectral Density	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	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	2025-07-04	2026-07-03
2.	LISN	R&S	ENV216	100115	2025-06-03	2026-06-02
3.	Cable	Top	TYPE16(3.5M)	-	2025-06-03	2026-06-02
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	2025-04-19	2026-04-18
2	Amplifier	Agilent	8447D	2944A10178	2025-07-04	2026-07-03
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2025-07-20	2026-07-19
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2025-04-19	2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1314	2025-08-09	2026-08-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2025-07-04	2026-07-03
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2025-07-04	2026-07-03
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2025-04-19	2026-04-18
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	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05	2026-07-04
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2025-04-21	2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer	R&S	FSP40	100501	2025-07-04	2026-07-03
2.	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2025-04-19	2026-04-18
3	Power Sensor	TST	TSCB562R2	-	2025-12-05	2026-12-04

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)
RF Conducted Testing	TST-301	V2.0

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

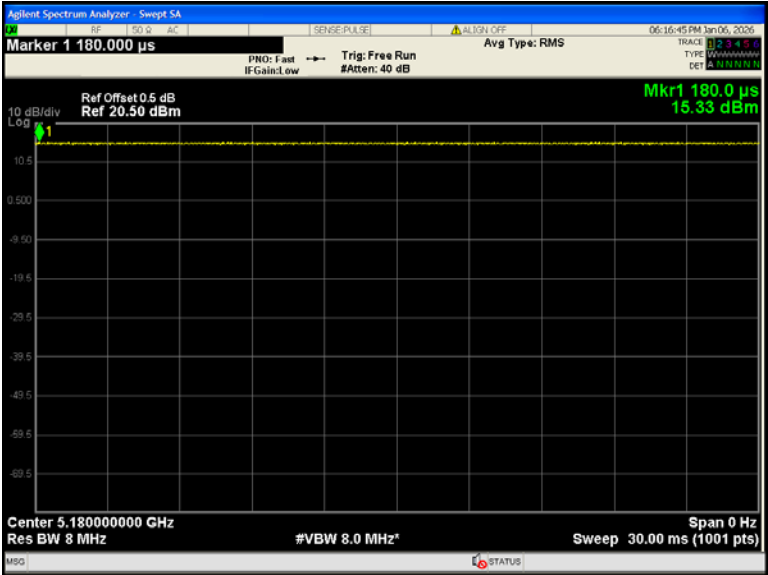
Test Requirement:	FCC 47CFR Part 15 Section 15.407 KDB789033 D02 General U-NII Test Procedures New Rules v02r01, Section (B)
Test Method:	ANSI C63.10-2020
Test Limit:	N/A
Test Result:	PASS
Remark:	Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded 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	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-1 802.11n(HT20)	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-1 802.11n(HT40)	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-2A 802.11a	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-2A 802.11n(HT20)	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-2A 802.11n(HT40)	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-2C 802.11a	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-2C 802.11n(HT20)	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-2C 802.11n(HT40)	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-3 802.11a	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-3 802.11n(HT20)	30.00	30.00	1.00	100.00	0.00	0.00
U-NII-3 802.11n(HT40)	30.00	30.00	1.00	100.00	0.00	0.00

Test result plots shown as follows:

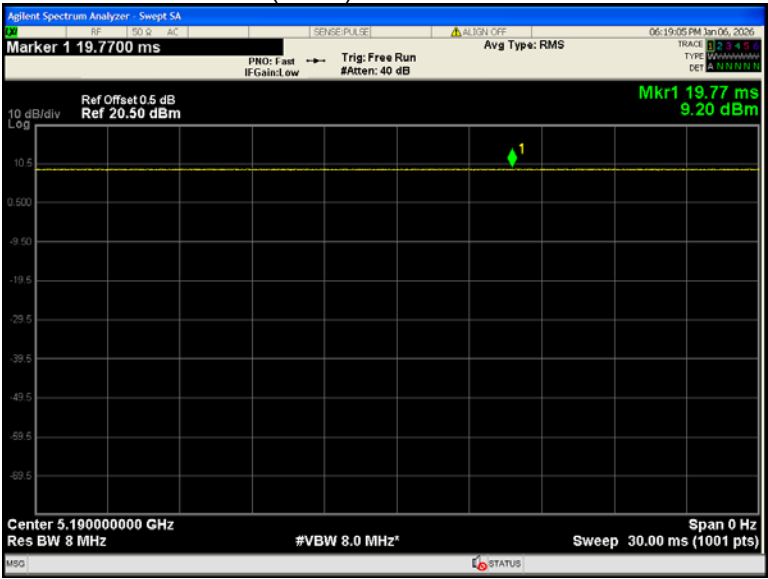
802.11a U-NII-1 Low channel



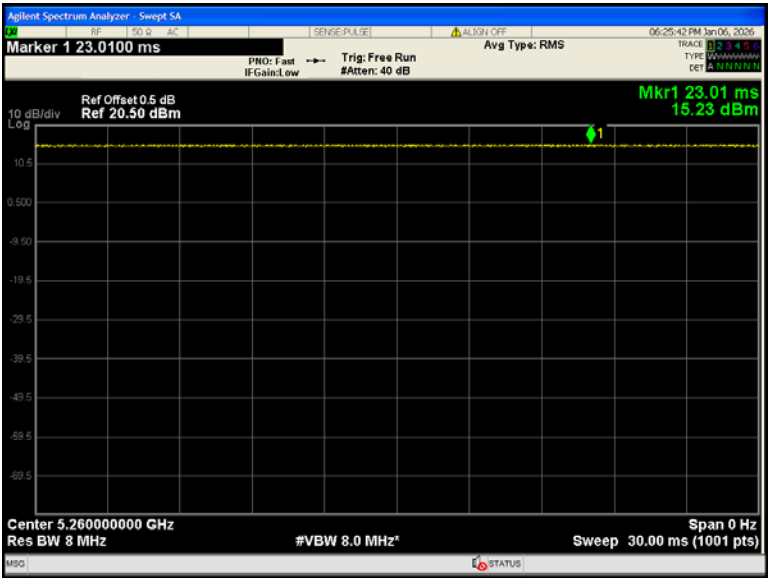
802.11n(HT20) U-NII-1 Low channel



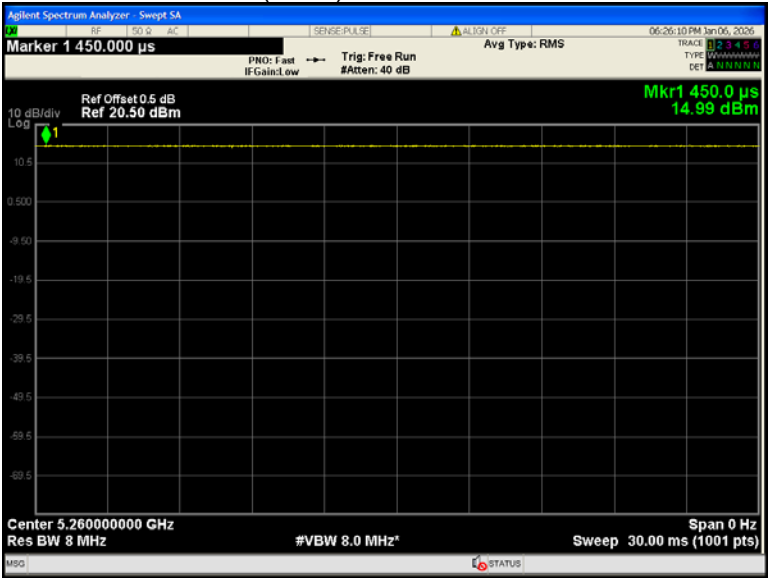
802.11n(HT40) U-NII-1 Low channel



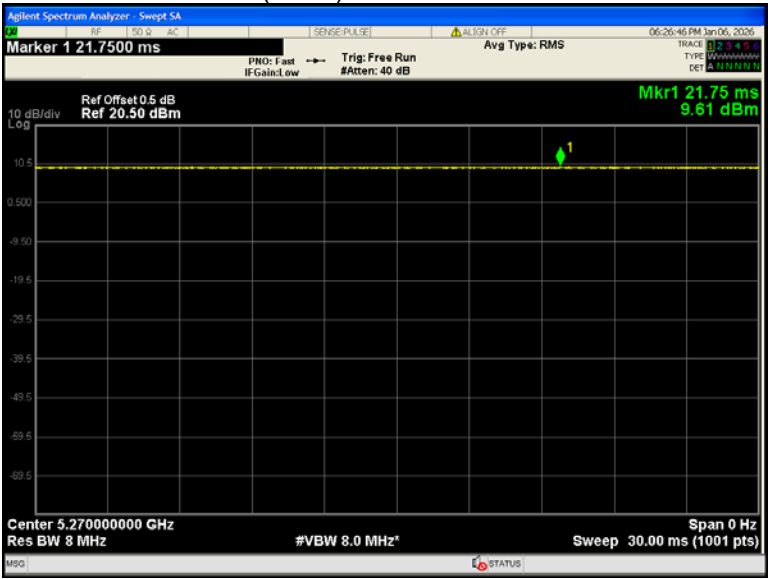
802.11a U-NII-2A Low channel



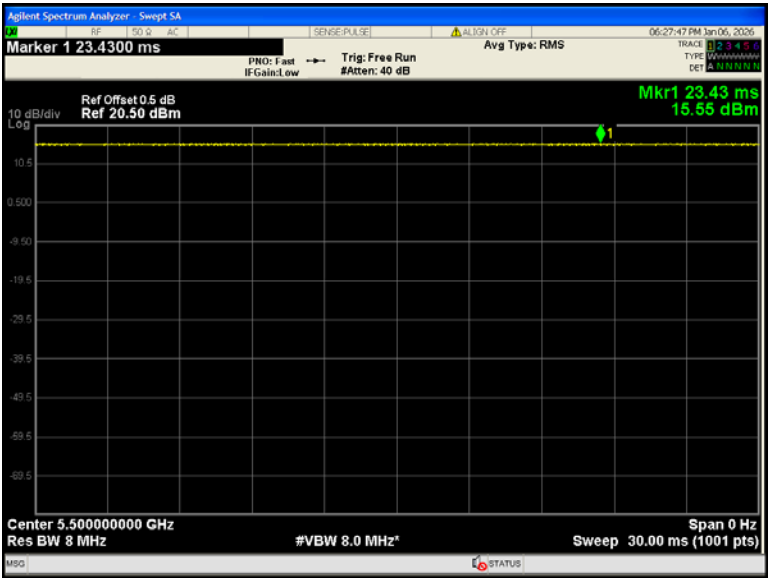
802.11n(HT20) U-NII-2A Low channel



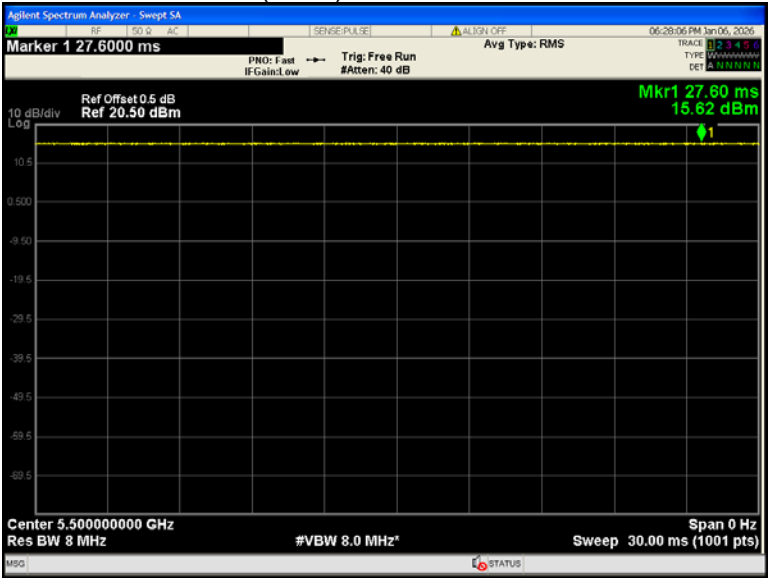
802.11n(HT40) U-NII-2A Low channel



802.11a U-NII-2C Low channel



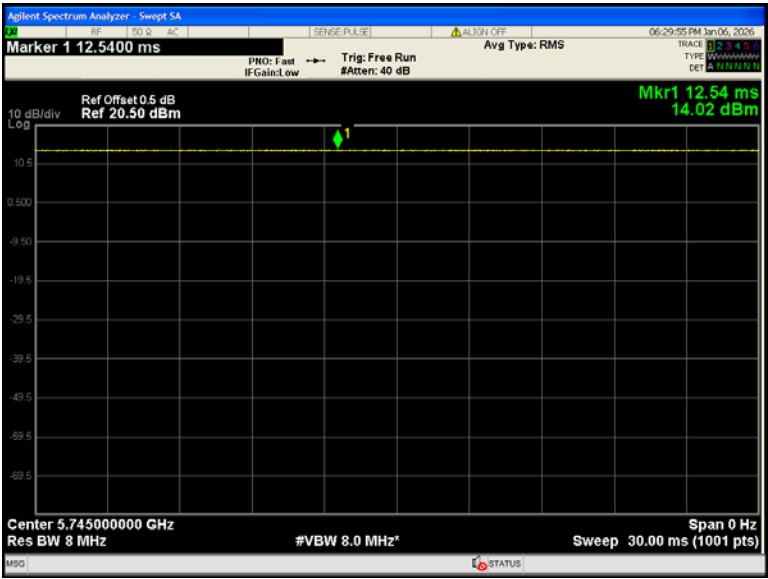
802.11n(HT20) U-NII-2C Low channel



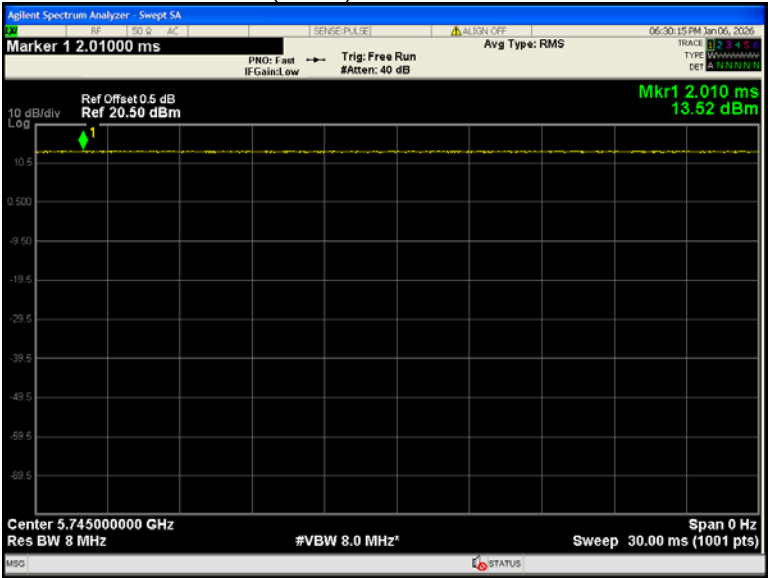
802.11n(HT40) U-NII-2C Low channel



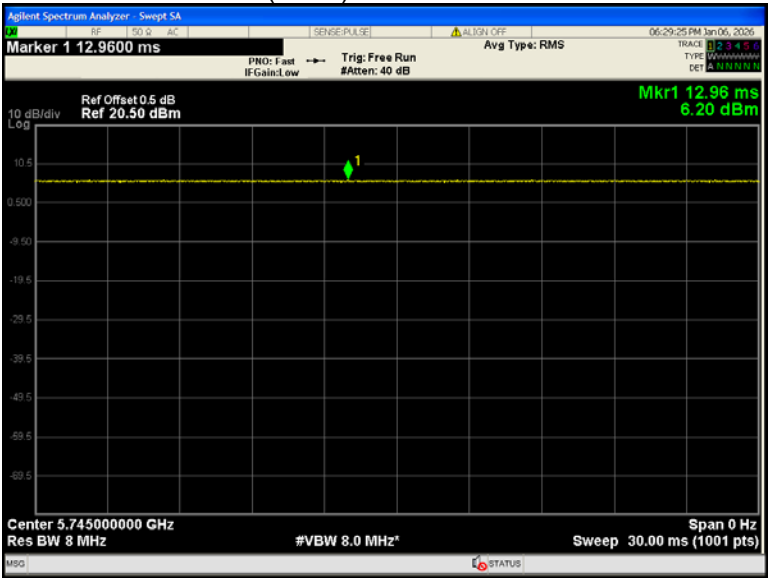
802.11a U-NII-3 Low channel



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



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



8 Conducted Emission

Test Requirement: FCC 47CFR Part 15 Section 15.207
Test Method: ANSI C63.10-2020
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Limit:

Frequency (MHz)	Conducted Limit (dBμV)	
	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

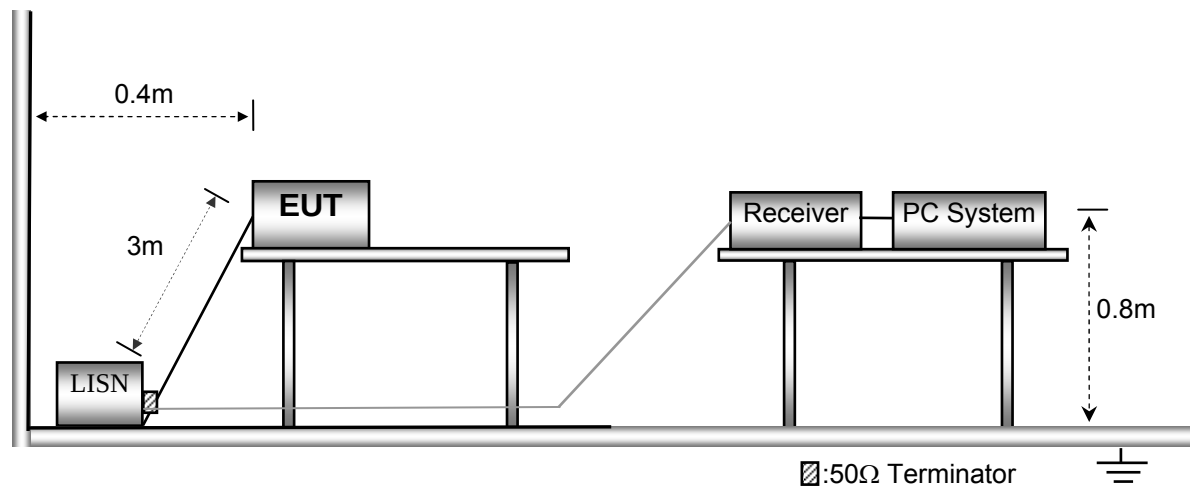
*Decreases with the logarithm of the frequency.

8.1 E.U.T. Operation

Operating Environment :
Temperature: 25.8°C
Humidity: 45.1%RH
Atmospheric Pressure: 101.3kPa
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 C63.10-2020.



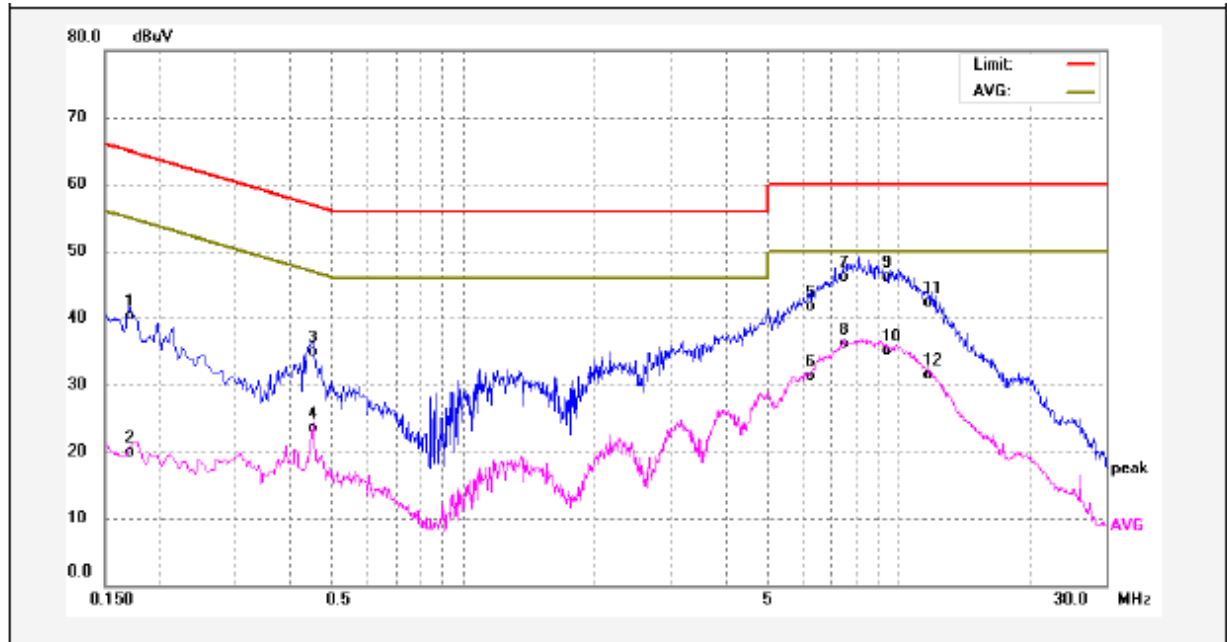
8.3 Measurement Description

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

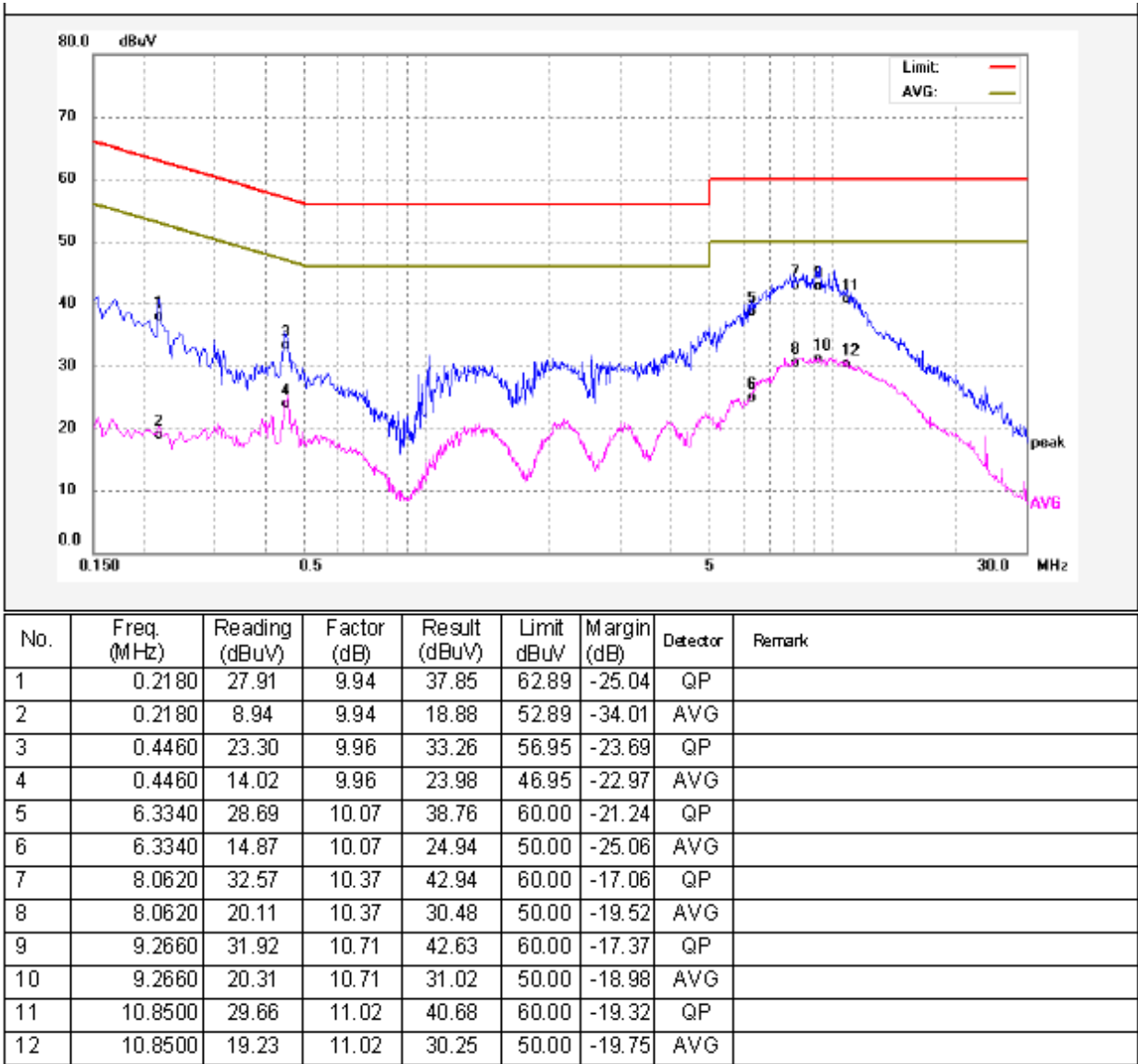
Remark: only the worst data (U-NII-1 802.11a High channel mode) were reported

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1700	30.18	10.06	40.24	64.96	-24.72	QP	
2	0.1700	9.92	10.06	19.98	54.96	-34.98	AVG	
3	0.4500	24.89	9.96	34.85	56.87	-22.02	QP	
4	0.4500	13.60	9.96	23.56	46.87	-23.31	AVG	
5	6.1979	31.60	10.07	41.67	60.00	-18.33	QP	
6	6.1979	21.32	10.07	31.39	50.00	-18.61	AVG	
7	7.6060	35.95	10.25	46.20	60.00	-13.80	QP	
8	7.6060	25.78	10.25	36.03	50.00	-13.97	AVG	
9	9.5420	35.27	10.79	46.06	60.00	-13.94	QP	
10	9.5420	24.41	10.79	35.20	50.00	-14.80	AVG	
11	11.8260	31.21	11.14	42.35	60.00	-17.65	QP	
12	11.8260	20.29	11.14	31.43	50.00	-18.57	AVG	

Neutral line:



9 Radiated Emissions

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

Test Method: ANSI C63.10-2020

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	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
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: 24.2 °C

Humidity: 49.5 % RH

Atmospheric Pressure: 101.6kPa

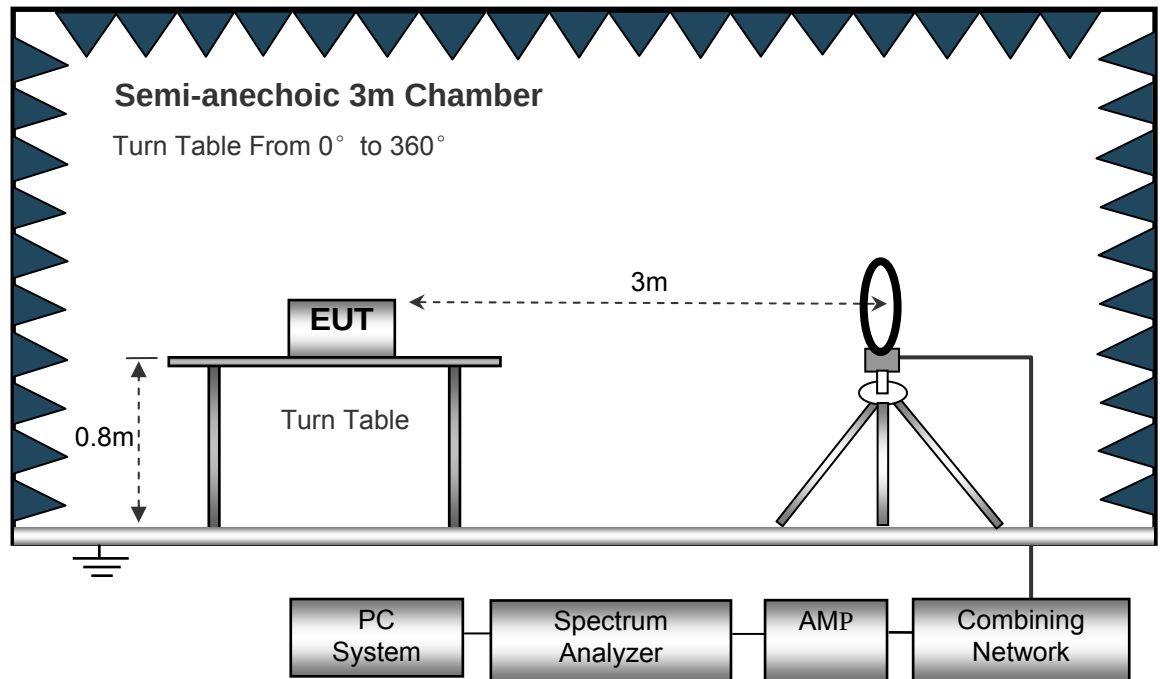
EUT Operation :

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

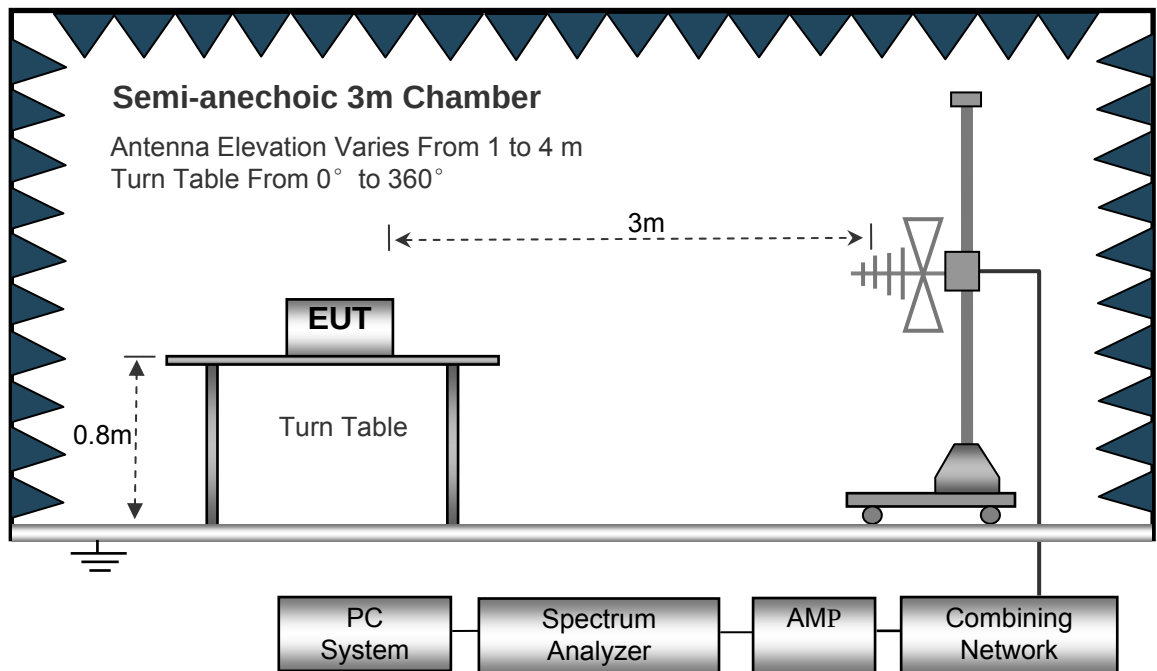
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10-2020.

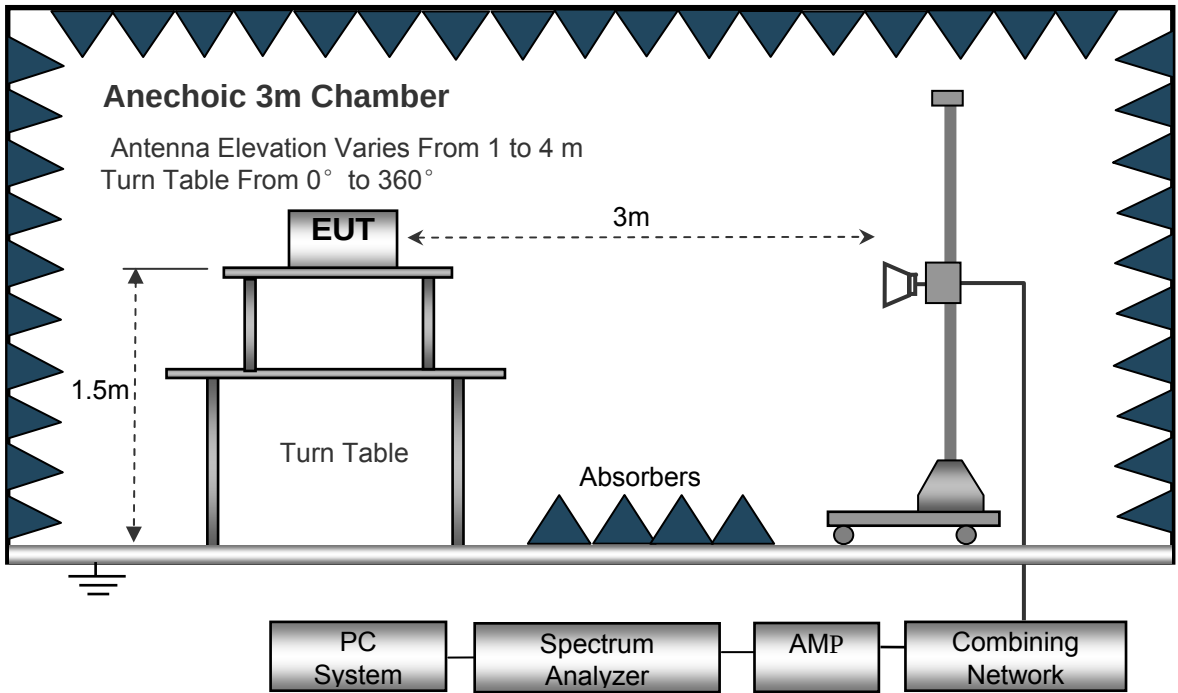
The test setup for emission measurement below 30MHz.



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
DetectorPK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
DetectorAve.
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	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 Low Channel 5180MHz									
887.65	50.05	QP	35	1.6	H	-11.62	38.43	46.00	-7.57
887.65	54.03	QP	4	1.0	V	-11.62	42.41	46.00	-3.59
4502.34	65.21	PK	344	1.6	H	-2.03	63.18	74.00	-10.82
4502.34	50.21	Ave	344	1.6	H	-2.03	48.18	54.00	-5.82
5118.22	61.50	PK	276	1.5	H	-1.02	60.48	74.00	-13.52
5118.22	46.29	Ave	276	1.5	H	-1.02	45.27	54.00	-8.73
10360.00	45.93	PK	124	1.7	H	5.33	51.26	74.00	-22.74
10360.00	32.54	Ave	124	1.7	H	5.33	37.87	54.00	-16.13
802.11a U-NII-1 Middle channel 5200MHz									
887.65	48.95	QP	302	1.0	H	-11.62	37.33	46.00	-8.67
887.65	53.66	QP	96	1.5	V	-11.62	42.04	46.00	-3.96
4524.10	63.98	PK	36	1.0	H	-1.94	62.04	74.00	-11.96
4524.10	49.74	Ave	36	1.0	H	-1.94	47.80	54.00	-6.20
5127.49	61.32	PK	173	1.7	H	-1.06	60.26	74.00	-13.74
5127.49	45.41	Ave	173	1.7	H	-1.06	44.35	54.00	-9.65
10400.00	45.70	PK	188	1.5	H	5.21	50.91	74.00	-23.09
10400.00	32.30	Ave	188	1.5	H	5.21	37.51	54.00	-16.49

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 High channel 5240MHz									
887.65	47.70	QP	14	1.0	H	-11.62	36.08	46.00	-9.92
887.65	53.39	QP	341	1.3	V	-11.62	41.77	46.00	-4.23
4529.40	62.86	PK	176	1.6	H	-2.24	60.62	74.00	-13.38
4529.40	48.80	Ave	176	1.6	H	-2.24	46.56	54.00	-7.44
5125.40	61.24	PK	327	1.9	H	-1.09	60.15	74.00	-13.85
5125.40	44.83	Ave	327	1.9	H	-1.09	43.74	54.00	-10.26
10480.00	44.66	PK	161	1.1	H	5.14	49.80	74.00	-24.20
10480.00	31.44	Ave	161	1.1	H	5.14	36.58	54.00	-17.42
802.11a U-NII-2A Low Channel 5260MHz									
887.65	48.10	QP	25	1.8	H	-11.62	36.48	46.00	-9.52
887.65	52.07	QP	222	1.8	V	-11.62	40.45	46.00	-5.55
4520.21	62.68	PK	1	1.3	H	-2.03	60.65	74.00	-13.35
4520.21	48.24	Ave	1	1.3	H	-2.03	46.21	54.00	-7.79
5122.06	59.17	PK	228	1.6	H	-1.02	58.15	74.00	-15.85
5122.06	44.69	Ave	228	1.6	H	-1.02	43.67	54.00	-10.33
10520.00	44.38	PK	231	1.1	H	5.33	49.71	74.00	-24.29
10520.00	33.66	Ave	231	1.1	H	5.33	38.99	54.00	-15.01

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2A Middle channel 5280MHz									
887.65	47.04	QP	127	1.4	H	-11.62	35.42	46.00	-10.58
887.65	51.78	QP	304	1.2	V	-11.62	40.16	46.00	-5.84
4536.97	61.89	PK	212	1.8	H	-1.94	59.95	74.00	-14.05
4536.97	47.78	Ave	212	1.8	H	-1.94	45.84	54.00	-8.16
5119.81	59.64	PK	219	1.9	H	-1.06	58.58	74.00	-15.42
5119.81	44.37	Ave	219	1.9	H	-1.06	43.31	54.00	-10.69
10560.00	44.19	PK	225	1.7	H	5.21	49.40	74.00	-24.60
10560.00	33.20	Ave	225	1.7	H	5.21	38.41	54.00	-15.59
802.11a U-NII-2A High channel 5320MHz									
887.65	47.65	QP	14	2.0	H	-11.62	36.03	46.00	-9.97
887.65	51.21	QP	58	1.5	V	-11.62	39.59	46.00	-6.41
4528.20	62.02	PK	312	1.9	H	-2.24	59.78	74.00	-14.22
4528.20	46.99	Ave	312	1.9	H	-2.24	44.75	54.00	-9.25
5136.29	58.07	PK	64	1.9	H	-1.09	56.98	74.00	-17.02
5136.29	43.94	Ave	64	1.9	H	-1.09	42.85	54.00	-11.15
10640.00	43.32	PK	112	1.3	H	5.14	48.46	74.00	-25.54
10640.00	33.23	Ave	112	1.3	H	5.14	38.37	54.00	-15.63

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2C Low Channel 5500MHz									
887.65	49.46	QP	216	1.7	H	-11.62	37.84	46.00	-8.16
887.65	53.26	QP	49	1.8	V	-11.62	41.64	46.00	-4.36
4533.12	63.61	PK	301	1.7	H	-2.03	61.58	74.00	-12.42
4533.12	50.04	Ave	301	1.7	H	-2.03	48.01	54.00	-5.99
5145.01	59.12	PK	319	1.6	H	-1.02	58.10	74.00	-15.90
5145.01	46.11	Ave	319	1.6	H	-1.02	45.09	54.00	-8.91
11000.00	43.40	PK	136	1.4	H	5.33	48.73	74.00	-25.27
11000.00	35.14	Ave	136	1.4	H	5.33	40.47	54.00	-13.53
802.11a U-NII-2C Middle channel 5600MHz									
887.65	48.96	QP	42	1.1	H	-11.62	37.34	46.00	-8.66
887.65	51.98	QP	2	1.0	V	-11.62	40.36	46.00	-5.64
4517.55	62.39	PK	314	1.4	H	-1.94	60.45	74.00	-13.55
4517.55	49.02	Ave	314	1.4	H	-1.94	47.08	54.00	-6.92
5134.29	58.26	PK	170	1.5	H	-1.06	57.20	74.00	-16.80
5134.29	45.86	Ave	170	1.5	H	-1.06	44.80	54.00	-9.20
11200.00	41.93	PK	194	1.9	H	5.21	47.14	74.00	-26.86
11200.00	34.36	Ave	194	1.9	H	5.21	39.57	54.00	-14.43

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2C High channel 5700MHz									
887.65	47.27	QP	228	1.2	H	-11.62	35.65	46.00	-10.35
887.65	51.68	QP	78	1.5	V	-11.62	40.06	46.00	-5.94
4528.55	61.56	PK	221	1.3	H	-2.24	59.32	74.00	-14.68
4528.55	48.92	Ave	221	1.3	H	-2.24	46.68	54.00	-7.32
5120.09	58.76	PK	111	2.0	H	-1.09	57.67	74.00	-16.33
5120.09	45.72	Ave	111	2.0	H	-1.09	44.63	54.00	-9.37
11400.00	42.65	PK	88	2.0	H	5.14	47.79	74.00	-26.21
11400.00	34.95	Ave	88	2.0	H	5.14	40.09	54.00	-13.91
802.11a U-NII-3 Low Channel 5745MHz									
887.65	50.14	QP	54	1.9	H	-11.62	38.52	46.00	-7.48
887.65	52.73	QP	301	1.6	V	-11.62	41.11	46.00	-4.89
4519.76	62.62	PK	128	1.9	H	-2.06	60.56	74.00	-13.44
4519.76	46.90	Ave	128	1.9	H	-2.06	44.84	54.00	-9.16
5366.52	44.28	PK	206	1.0	H	5.93	50.21	74.00	-23.79
5366.52	32.40	Ave	206	1.0	H	5.93	38.33	54.00	-15.67
11490.00	45.41	PK	153	1.2	H	-1.25	44.16	74.00	-29.84
11490.00	37.51	Ave	153	1.2	H	-1.25	36.26	54.00	-17.74

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-3 Middle channel 5785MHz									
887.65	46.59	QP	128	1.2	H	-11.62	34.97	46.00	-11.03
887.65	51.50	QP	155	1.4	V	-11.62	39.88	46.00	-6.12
4523.38	63.14	PK	78	1.9	H	-2.03	61.11	74.00	-12.89
4523.38	46.77	Ave	78	1.9	H	-2.03	44.74	54.00	-9.26
5359.78	44.80	PK	232	1.1	H	5.81	50.61	74.00	-23.39
5359.78	32.43	Ave	232	1.1	H	5.81	38.24	54.00	-15.76
11570.00	46.69	PK	315	1.8	H	-1.22	45.47	74.00	-28.53
11570.00	37.26	Ave	315	1.8	H	-1.22	36.04	54.00	-17.96
802.11a U-NII-3 High channel 5825MHz									
887.65	46.21	QP	146	1.3	H	-11.62	34.59	46.00	-11.41
887.65	51.03	QP	84	1.4	V	-11.62	39.41	46.00	-6.59
4519.54	62.69	PK	35	1.2	H	-1.84	60.85	74.00	-13.15
4519.54	46.38	Ave	35	1.2	H	-1.84	44.54	54.00	-9.46
5379.13	45.09	PK	116	1.4	H	5.84	50.93	74.00	-23.07
5379.13	32.73	Ave	116	1.4	H	5.84	38.57	54.00	-15.43
11650.00	46.84	PK	335	1.2	H	-1.30	45.54	74.00	-28.46
11650.00	39.71	Ave	335	1.2	H	-1.30	38.41	54.00	-15.59

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 Low Channel 5180MHz									
887.65	45.03	QP	24	1.9	H	-11.62	33.41	46.00	-12.59
887.65	50.71	QP	110	1.1	V	-11.62	39.09	46.00	-6.91
4507.57	62.44	PK	356	1.8	H	-2.14	60.30	74.00	-13.70
4507.57	45.13	Ave	356	1.8	H	-2.14	42.99	54.00	-11.01
5141.08	45.86	PK	40	1.4	H	-1.06	44.80	74.00	-29.20
5141.08	33.65	Ave	40	1.4	H	-1.06	32.59	54.00	-21.41
10360.00	44.91	PK	73	2.0	H	5.33	50.24	74.00	-23.76
10360.00	32.50	Ave	73	2.0	H	5.33	37.83	54.00	-16.17
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
887.65	44.33	QP	306	1.7	H	-11.62	32.71	46.00	-13.29
887.65	49.44	QP	156	1.4	V	-11.62	37.82	46.00	-8.18
4507.64	61.30	PK	330	1.5	H	-2.12	59.18	74.00	-14.82
4507.64	45.10	Ave	330	1.5	H	-2.12	42.98	54.00	-11.02
5129.74	45.81	PK	110	1.5	H	-1.06	44.75	74.00	-29.25
5129.74	34.50	Ave	110	1.5	H	-1.06	33.44	54.00	-20.56
10400.00	46.41	PK	254	1.6	H	5.21	51.62	74.00	-22.38
10400.00	33.17	Ave	254	1.6	H	5.21	38.38	54.00	-15.62

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 High channel 5240MHz									
887.65	46.23	QP	147	1.8	H	-11.62	34.61	46.00	-11.39
887.65	50.67	QP	263	1.2	V	-11.62	39.05	46.00	-6.95
4500.66	59.29	PK	6	1.3	H	-1.96	57.33	74.00	-16.67
4500.66	43.45	Ave	6	1.3	H	-1.96	41.49	54.00	-12.51
5126.40	44.94	PK	303	1.5	H	-1.06	43.88	74.00	-30.12
5126.40	33.25	Ave	303	1.5	H	-1.06	32.19	54.00	-21.81
10480.00	44.73	PK	133	1.3	H	5.14	49.87	74.00	-24.13
10480.00	31.73	Ave	133	1.3	H	5.14	36.87	54.00	-17.13
802.11n(HT20) U-NII-2A Low Channel 5260MHz									
887.65	47.97	QP	286	1.5	H	-11.62	36.35	46.00	-9.65
887.65	53.92	QP	198	1.3	V	-11.62	42.30	46.00	-3.70
4524.75	65.07	PK	230	1.8	H	-2.03	63.04	74.00	-10.96
4524.75	46.46	Ave	230	1.8	H	-2.03	44.43	54.00	-9.57
5126.36	56.10	PK	267	1.0	H	-1.02	55.08	74.00	-18.92
5126.36	43.66	Ave	267	1.0	H	-1.02	42.64	54.00	-11.36
10520.00	47.56	PK	199	1.2	H	5.33	52.89	74.00	-21.11
10520.00	31.72	Ave	199	1.2	H	5.33	37.05	54.00	-16.95

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2A Middle channel 5280MHz									
887.65	48.05	QP	312	1.9	H	-11.62	36.43	46.00	-9.57
887.65	54.37	QP	338	1.6	V	-11.62	42.75	46.00	-3.25
4521.30	65.50	PK	226	1.6	H	-1.94	63.56	74.00	-10.44
4521.30	47.42	Ave	226	1.6	H	-1.94	45.48	54.00	-8.52
5131.78	56.36	PK	161	1.9	H	-1.06	55.30	74.00	-18.70
5131.78	44.88	Ave	161	1.9	H	-1.06	43.82	54.00	-10.18
10560.00	46.14	PK	291	1.8	H	5.21	51.35	74.00	-22.65
10560.00	31.61	Ave	291	1.8	H	5.21	36.82	54.00	-17.18
802.11n(HT20) U-NII-2A High channel 5320MHz									
887.65	44.85	QP	106	1.7	H	-11.62	33.23	46.00	-12.77
887.65	53.78	QP	220	1.3	V	-11.62	42.16	46.00	-3.84
4515.33	66.60	PK	143	1.9	H	-2.24	64.36	74.00	-9.64
4515.33	47.68	Ave	143	1.9	H	-2.24	45.44	54.00	-8.56
5120.86	57.25	PK	32	2.0	H	-1.09	56.16	74.00	-17.84
5120.86	42.30	Ave	32	2.0	H	-1.09	41.21	54.00	-12.79
10640.00	44.82	PK	207	1.2	H	5.14	49.96	74.00	-24.04
10640.00	31.51	Ave	207	1.2	H	5.14	36.65	54.00	-17.35

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2C Low Channel 5500MHz									
887.65	42.88	QP	43	1.8	H	-11.62	31.26	46.00	-14.74
887.65	54.34	QP	298	1.9	V	-11.62	42.72	46.00	-3.28
4532.21	58.10	PK	285	1.1	H	-2.03	56.07	74.00	-17.93
4532.21	33.77	Ave	285	1.1	H	-2.03	31.74	54.00	-22.26
5134.46	45.01	PK	329	1.0	H	-1.02	43.99	74.00	-30.01
5134.46	34.37	Ave	329	1.0	H	-1.02	33.35	54.00	-20.65
11000.00	46.19	PK	148	1.5	H	5.33	51.52	74.00	-22.48
11000.00	34.93	Ave	148	1.5	H	5.33	40.26	54.00	-13.74
802.11n(HT20) U-NII-2C Middle channel 5600MHz									
887.65	44.35	QP	182	1.1	H	-11.62	32.73	46.00	-13.27
887.65	53.63	QP	292	1.3	V	-11.62	42.01	46.00	-3.99
4524.77	57.32	PK	192	1.4	H	-1.94	55.38	74.00	-18.62
4524.77	32.57	Ave	192	1.4	H	-1.94	30.63	54.00	-23.37
5124.41	47.60	PK	223	1.9	H	-1.06	46.54	74.00	-27.46
5124.41	35.28	Ave	223	1.9	H	-1.06	34.22	54.00	-19.78
11200.00	46.81	PK	282	1.4	H	5.21	52.02	74.00	-21.98
11200.00	34.48	Ave	282	1.4	H	5.21	39.69	54.00	-14.31

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2C High channel 5700MHz									
887.65	45.43	QP	49	1.3	H	-11.62	33.81	46.00	-12.19
887.65	52.09	QP	214	1.3	V	-11.62	40.47	46.00	-5.53
4525.85	57.45	PK	131	1.8	H	-2.24	55.21	74.00	-18.79
4525.85	33.46	Ave	131	1.8	H	-2.24	31.22	54.00	-22.78
5140.72	48.61	PK	24	1.4	H	-1.09	47.52	74.00	-26.48
5140.72	34.10	Ave	24	1.4	H	-1.09	33.01	54.00	-20.99
11400.00	47.40	PK	310	1.1	H	5.14	52.54	74.00	-21.46
11400.00	36.33	Ave	310	1.1	H	5.14	41.47	54.00	-12.53
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
887.65	40.52	QP	173	1.9	H	-11.62	28.90	46.00	-17.10
887.65	48.84	QP	217	1.0	V	-11.62	37.22	46.00	-8.78
4531.63	61.72	PK	82	1.9	H	-2.06	59.66	74.00	-14.34
4531.63	46.34	Ave	82	1.9	H	-2.06	44.28	54.00	-9.72
5363.25	46.73	PK	310	1.2	H	5.93	52.66	74.00	-21.34
5363.25	35.71	Ave	310	1.2	H	5.93	41.64	54.00	-12.36
11490.00	45.41	PK	282	1.6	H	-1.25	44.16	74.00	-29.84
11490.00	37.79	Ave	282	1.6	H	-1.25	36.54	54.00	-17.46

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-3 Middle channel 5785MHz									
887.65	47.26	QP	92	1.5	H	-11.62	35.64	46.00	-10.36
887.65	50.76	QP	241	1.9	V	-11.62	39.14	46.00	-6.86
4519.15	64.04	PK	349	1.8	H	-2.03	62.01	74.00	-11.99
4519.15	48.20	Ave	349	1.8	H	-2.03	46.17	54.00	-7.83
5370.83	51.91	PK	331	1.2	H	5.81	57.72	74.00	-16.28
5370.83	38.02	Ave	331	1.2	H	5.81	43.83	54.00	-10.17
11570.00	46.05	PK	89	1.4	H	-1.22	44.83	74.00	-29.17
11570.00	38.09	Ave	89	1.4	H	-1.22	36.87	54.00	-17.13
802.11n(HT20) U-NII-3 High channel 5825MHz									
887.65	43.36	QP	281	1.9	H	-11.62	31.74	46.00	-14.26
887.65	53.90	QP	312	1.2	V	-11.62	42.28	46.00	-3.72
4518.98	62.23	PK	253	1.0	H	-1.84	60.39	74.00	-13.61
4518.98	48.92	Ave	253	1.0	H	-1.84	47.08	54.00	-6.92
5364.93	49.65	PK	251	1.2	H	5.84	55.49	74.00	-18.51
5364.93	39.34	Ave	251	1.2	H	5.84	45.18	54.00	-8.82
11650.00	45.49	PK	281	1.9	H	-1.30	44.19	74.00	-29.81
11650.00	38.92	Ave	281	1.9	H	-1.30	37.62	54.00	-16.38

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-1 Low Channel 5190MHz									
887.65	50.61	QP	331	1.2	H	-11.62	38.99	46.00	-7.01
887.65	53.01	QP	258	1.7	V	-11.62	41.39	46.00	-4.61
4504.28	64.73	PK	285	1.4	H	-2.03	62.70	74.00	-11.30
4504.28	49.86	Ave	285	1.4	H	-2.03	47.83	54.00	-6.17
5128.79	61.70	PK	69	1.2	H	-1.02	60.68	74.00	-13.32
5128.79	46.22	Ave	69	1.2	H	-1.02	45.20	54.00	-8.80
10380.00	46.07	PK	240	1.4	H	5.33	51.40	74.00	-22.60
10380.00	32.14	Ave	240	1.4	H	5.33	37.47	54.00	-16.53
802.11n(HT40) U-NII-1 High channel 5230MHz									
887.65	49.85	QP	269	1.7	H	-11.62	38.23	46.00	-7.77
887.65	52.40	QP	354	1.7	V	-11.62	40.78	46.00	-5.22
4527.13	63.41	PK	157	1.4	H	-1.94	61.47	74.00	-12.53
4527.13	48.89	Ave	157	1.4	H	-1.94	46.95	54.00	-7.05
5126.00	61.10	PK	351	1.9	H	-1.06	60.04	74.00	-13.96
5126.00	46.25	Ave	351	1.9	H	-1.06	45.19	54.00	-8.81
10460.00	44.58	PK	101	1.6	H	5.21	49.79	74.00	-24.21
10480.00	31.37	Ave	101	1.6	H	5.21	36.58	54.00	-17.42

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2A Low Channel 5270MHz									
887.65	47.69	QP	260	1.8	H	-11.62	36.07	46.00	-9.93
887.65	52.09	QP	356	1.1	V	-11.62	40.47	46.00	-5.53
4523.44	62.70	PK	30	1.9	H	-2.24	60.46	74.00	-13.54
4523.44	49.13	Ave	30	1.9	H	-2.24	46.89	54.00	-7.11
5125.22	60.76	PK	19	1.9	H	-1.09	59.67	74.00	-14.33
5125.22	45.62	Ave	19	1.9	H	-1.09	44.53	54.00	-9.47
10540.00	43.83	PK	185	1.4	H	5.14	48.97	74.00	-25.03
10540.00	31.93	Ave	185	1.4	H	5.14	37.07	54.00	-16.93
802.11n(HT40) U-NII-2A High channel 5310MHz									
887.65	48.05	QP	298	1.4	H	-11.62	36.43	46.00	-9.57
887.65	52.12	QP	119	1.0	V	-11.62	40.50	46.00	-5.50
4532.95	64.25	PK	307	1.1	H	-2.03	62.22	74.00	-11.78
4532.95	47.86	Ave	307	1.1	H	-2.03	45.83	54.00	-8.17
5110.58	58.96	PK	350	1.4	H	-1.02	57.94	74.00	-16.06
5110.58	45.12	Ave	350	1.4	H	-1.02	44.10	54.00	-9.90
10620.00	44.09	PK	274	1.1	H	5.33	49.42	74.00	-24.58
10620.00	33.49	Ave	274	1.1	H	5.33	38.82	54.00	-15.18

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2C Low Channel 5510MHz									
887.65	48.01	QP	8	1.4	H	-11.62	36.39	46.00	-9.61
887.65	52.00	QP	308	1.3	V	-11.62	40.38	46.00	-5.62
4532.39	63.12	PK	353	1.0	H	-1.94	61.18	74.00	-12.82
4532.39	47.78	Ave	353	1.0	H	-1.94	45.84	54.00	-8.16
5119.81	57.82	PK	92	1.8	H	-1.06	56.76	74.00	-17.24
5119.81	44.76	Ave	92	1.8	H	-1.06	43.70	54.00	-10.30
11020.00	43.79	PK	239	1.8	H	5.21	49.00	74.00	-25.00
11020.00	32.62	Ave	239	1.8	H	5.21	37.83	54.00	-16.17
802.11n(HT40) U-NII-2C Middle channel 5550MHz									
887.65	46.92	QP	219	1.3	H	-11.62	35.30	46.00	-10.70
887.65	51.18	QP	332	1.2	V	-11.62	39.56	46.00	-6.44
4528.59	62.31	PK	149	1.6	H	-2.24	60.07	74.00	-13.93
4528.59	46.51	Ave	149	1.6	H	-2.24	44.27	54.00	-9.73
5113.00	57.83	PK	74	1.6	H	-1.09	56.74	74.00	-17.26
5113.00	44.70	Ave	74	1.6	H	-1.09	43.61	54.00	-10.39
11100.00	43.84	PK	218	1.1	H	5.14	48.98	74.00	-25.02
11100.00	32.49	Ave	218	1.1	H	5.14	37.63	54.00	-16.37
802.11n(HT40) U-NII-2C High channel 5670MHz									
887.65	50.20	QP	173	1.0	H	-11.62	38.58	46.00	-7.42
887.65	52.35	QP	113	1.9	V	-11.62	40.73	46.00	-5.27
4536.92	62.67	PK	308	1.2	H	-2.03	60.64	74.00	-13.36
4536.92	49.86	Ave	308	1.2	H	-2.03	47.83	54.00	-6.17
5113.39	58.62	PK	236	1.8	H	-1.02	57.60	74.00	-16.40
5113.39	45.94	Ave	236	1.8	H	-1.02	44.92	54.00	-9.08
11340.00	43.45	PK	44	1.2	H	5.33	48.78	74.00	-25.22
11340.00	35.44	Ave	44	1.2	H	5.33	40.77	54.00	-13.23

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-3 Low Channel 5755MHz									
887.65	50.28	QP	344	1.5	H	-11.62	38.66	46.00	-7.34
887.65	54.06	QP	31	1.6	V	-11.62	42.44	46.00	-3.56
4535.37	65.14	PK	115	1.9	H	-2.03	63.11	74.00	-10.89
4535.37	50.26	Ave	115	1.9	H	-2.03	48.23	54.00	-5.77
11510.00	60.59	PK	122	1.7	H	-1.02	59.57	74.00	-14.43
11510.00	47.06	Ave	122	1.7	H	-1.02	46.04	54.00	-7.96
5360.35	45.97	PK	117	1.5	H	5.33	51.30	74.00	-22.70
5360.35	32.56	Ave	117	1.5	H	5.33	37.89	54.00	-16.11
802.11n(HT40) U-NII-3 High Channel 5795MHz									
887.65	49.40	QP	253	1.8	H	-11.62	37.78	46.00	-8.22
887.65	53.13	QP	138	1.3	V	-11.62	41.51	46.00	-4.49
4520.82	64.59	PK	172	1.9	H	-1.94	62.65	74.00	-11.35
4520.82	49.49	Ave	172	1.9	H	-1.94	47.55	54.00	-6.45
11590.00	59.73	PK	90	1.9	H	-1.06	58.67	74.00	-15.33
11590.00	46.21	Ave	90	1.9	H	-1.06	45.15	54.00	-8.85
5389.44	45.40	PK	202	1.9	H	5.21	50.61	74.00	-23.39
5389.44	31.47	Ave	202	1.9	H	5.21	36.68	54.00	-17.32

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 C63.10-2020
Test Limit:	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. 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. 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. For transmitters operating in the 5.725-5.85 GHz band: (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. (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.
Test Result:	PASS

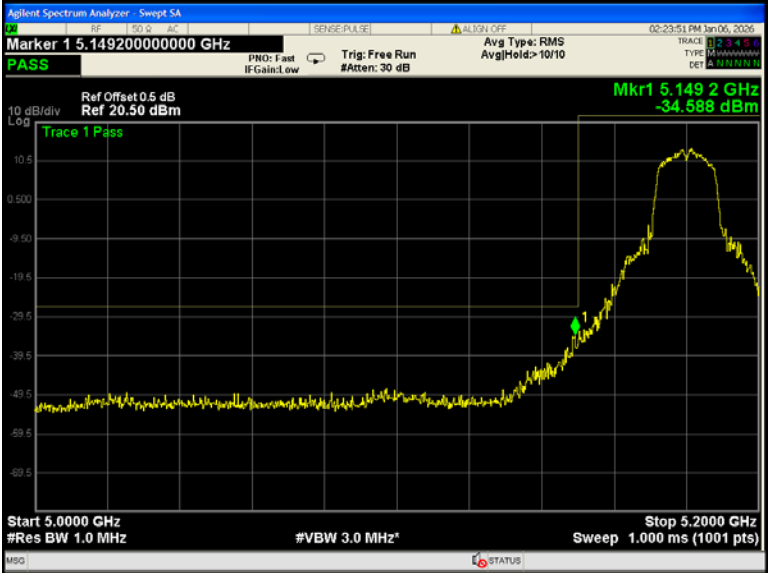
10.1 Test Produce

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.

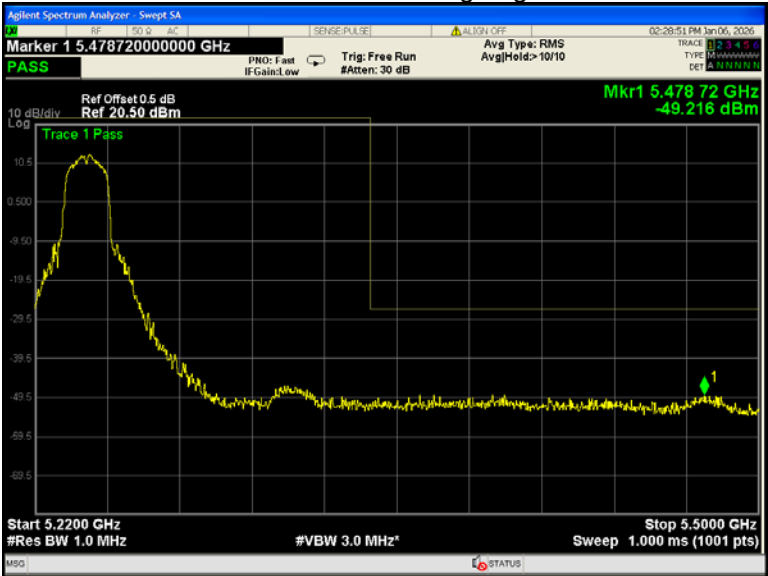
10.2 Test Result

Test result plots shown as follows:

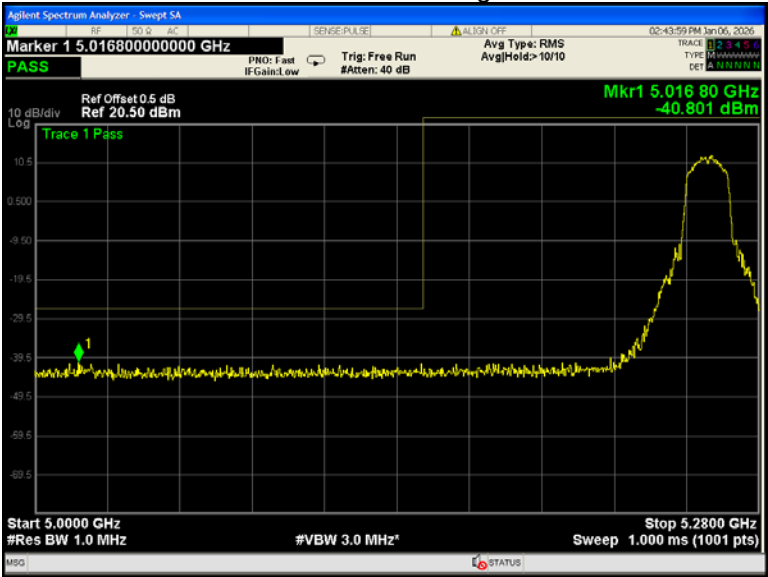
802.11a U-NII-1 Band edge-left side



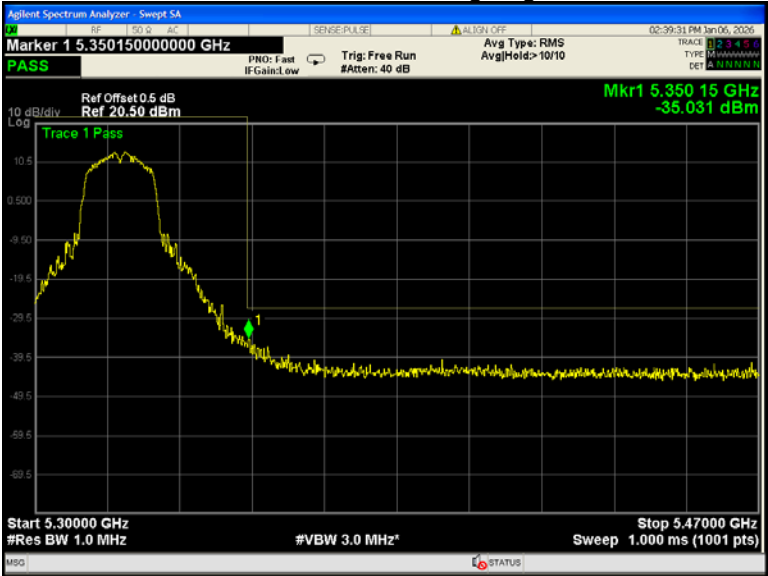
802.11a U-NII-1 Band edge-right side



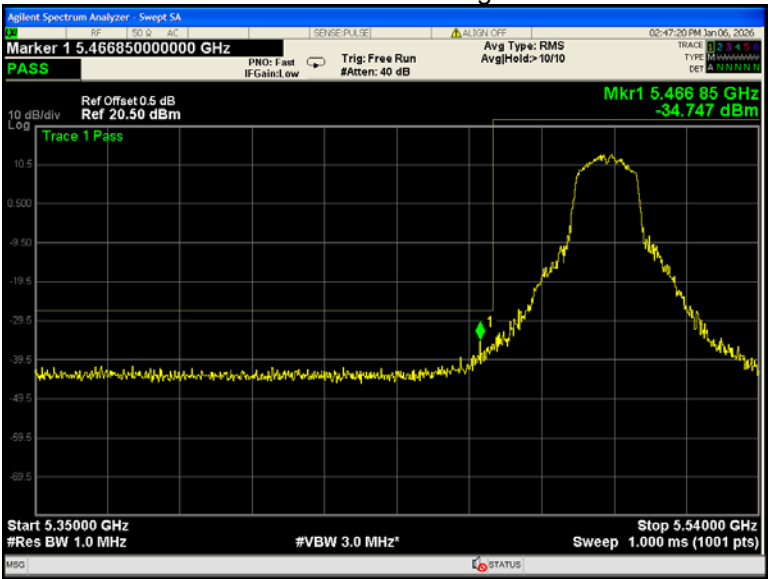
802.11a U-NII-2A Band edge-left side



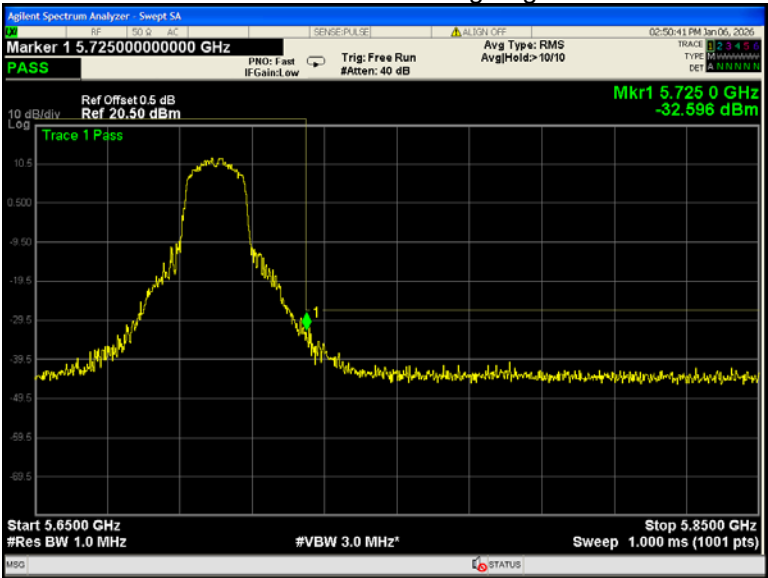
802.11a U-NII-2A Band edge-right side



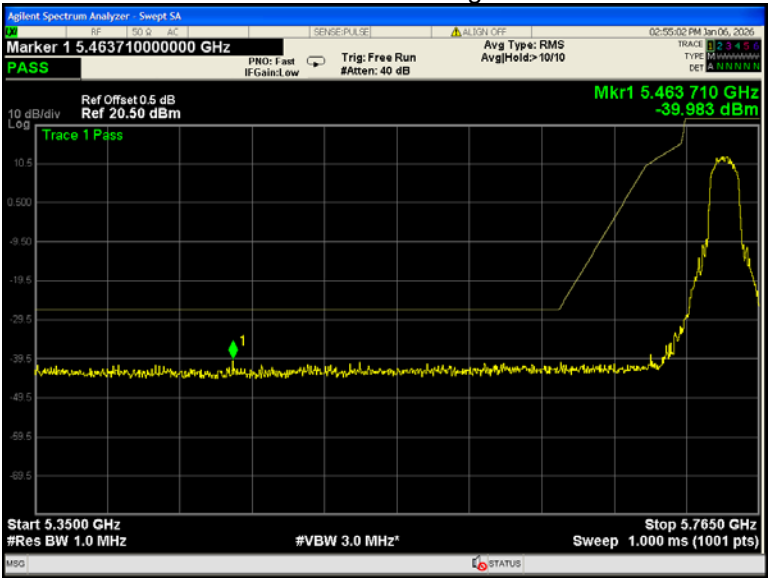
802.11a U-NII-2C Band edge-left side



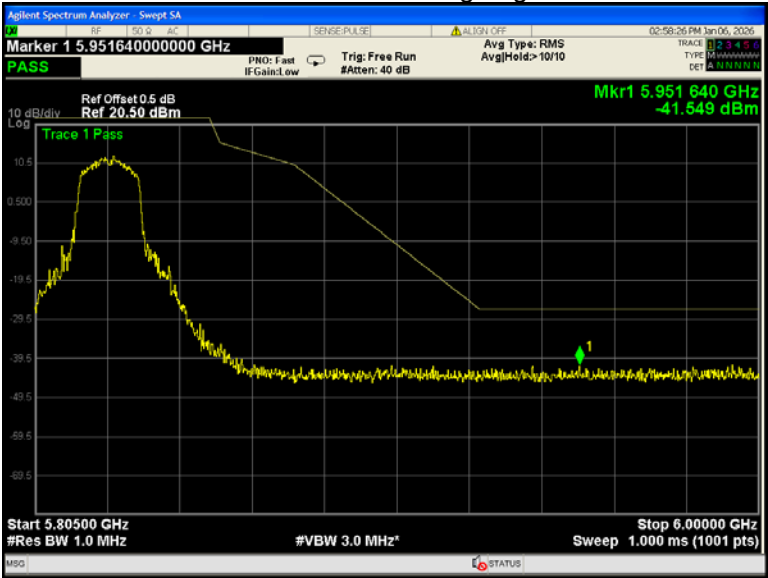
802.11a U-NII-2C Band edge-right side



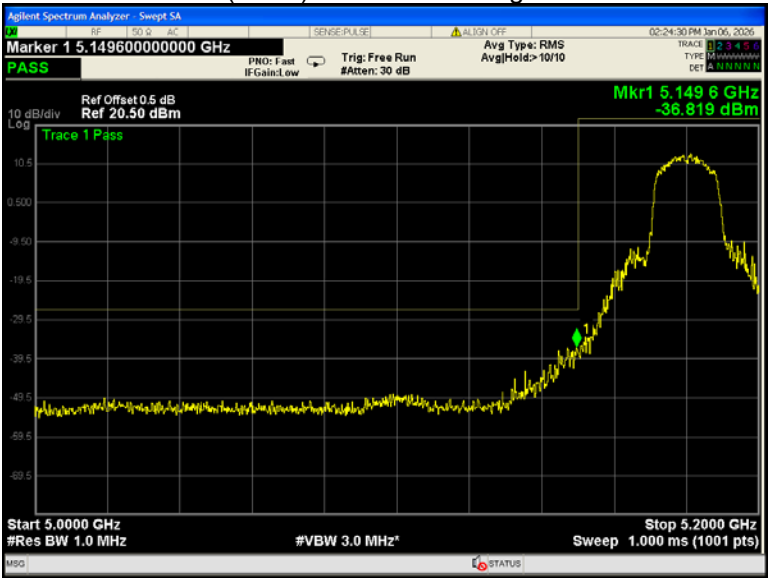
802.11a U-NII-3 Band edge-left side



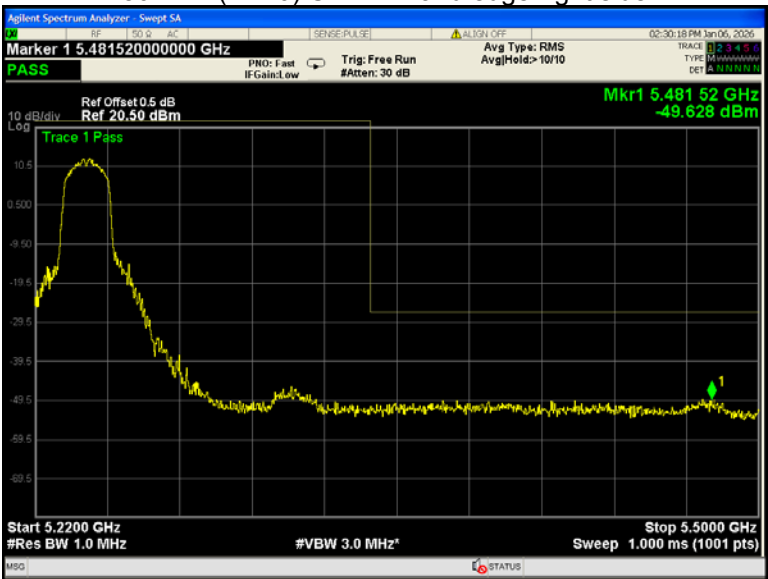
802.11a U-NII-3 Band edge-right side



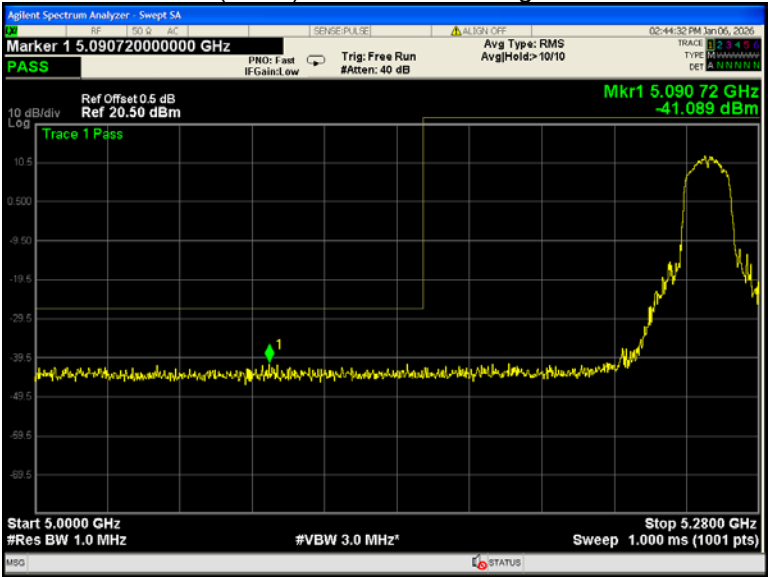
802.11n(HT20) U-NII-1 Band edge-left side



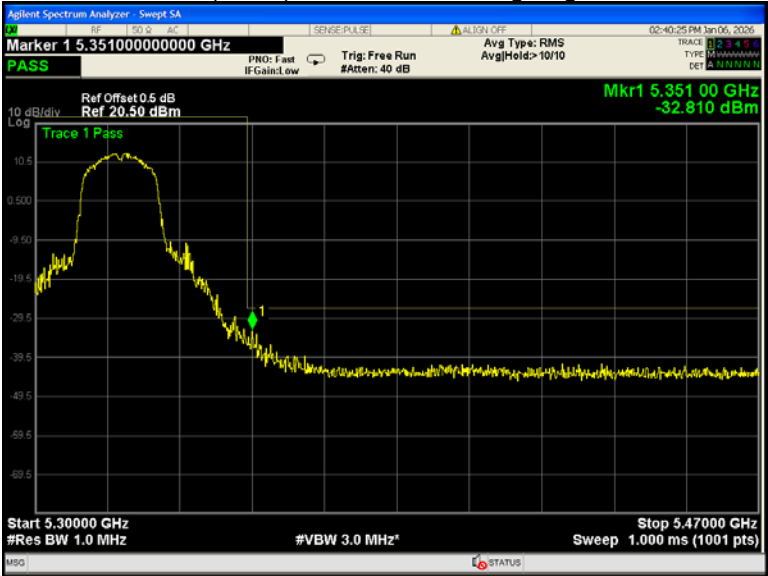
802.11n(HT20) U-NII-1 Band edge-right side



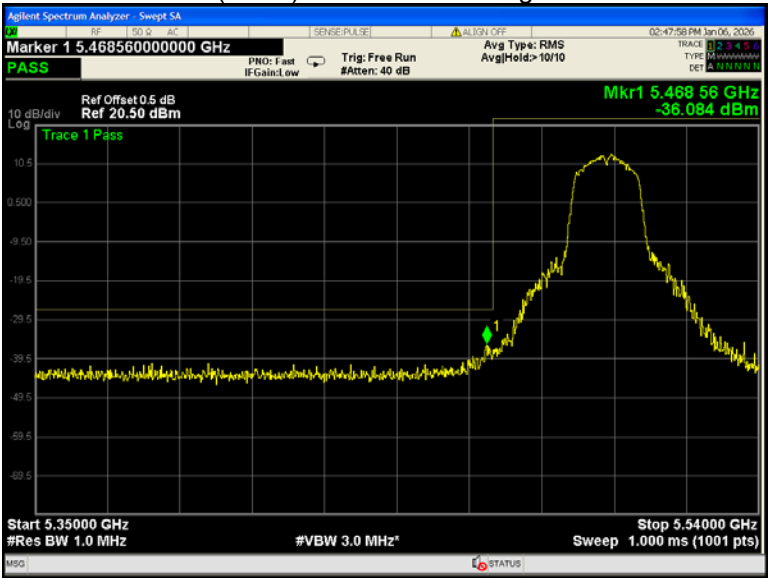
802.11n(HT20) U-NII-2A Band edge-left side



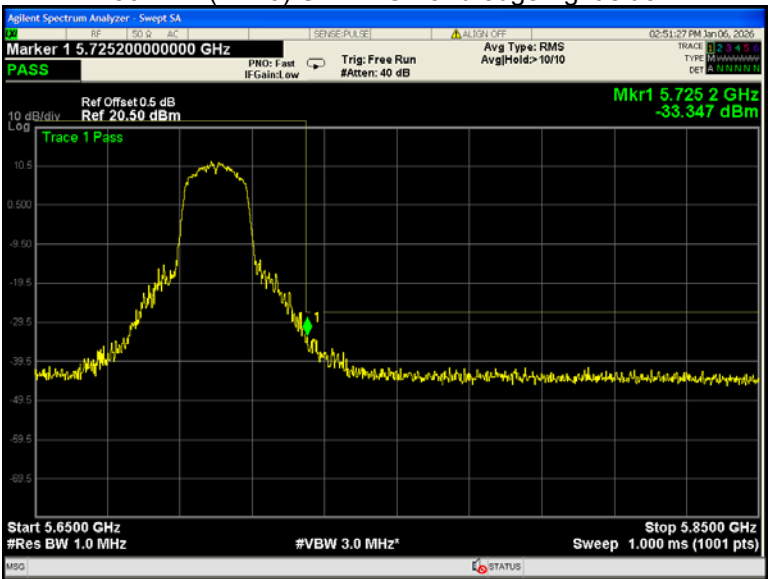
802.11n(HT20) U-NII-2A Band edge-right side



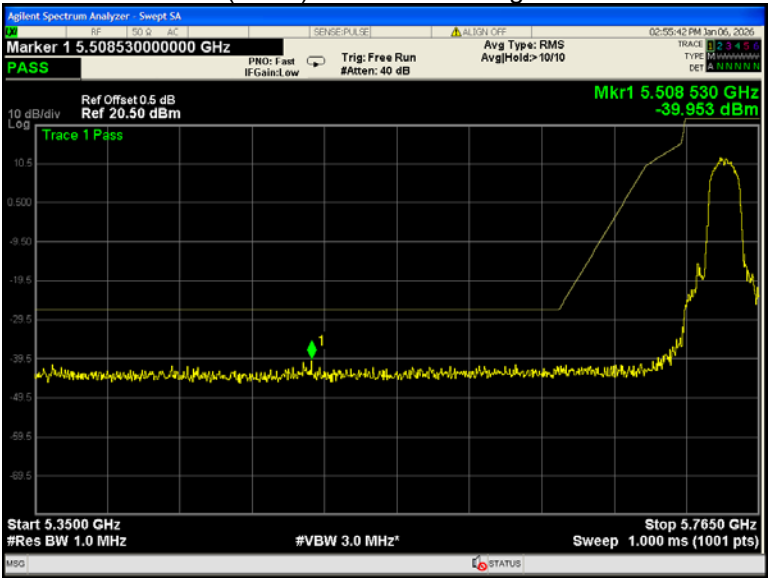
802.11n(HT20) U-NII-2C Band edge-left side



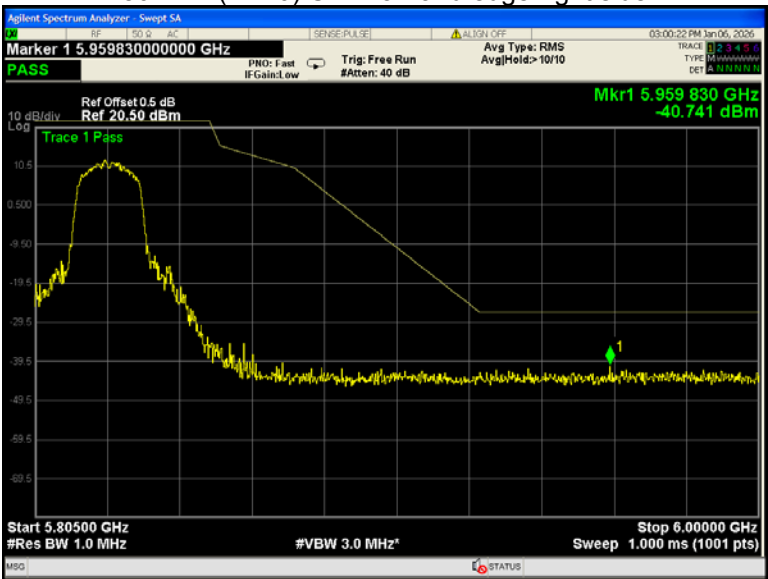
802.11n(HT20) U-NII-2C Band edge-right side



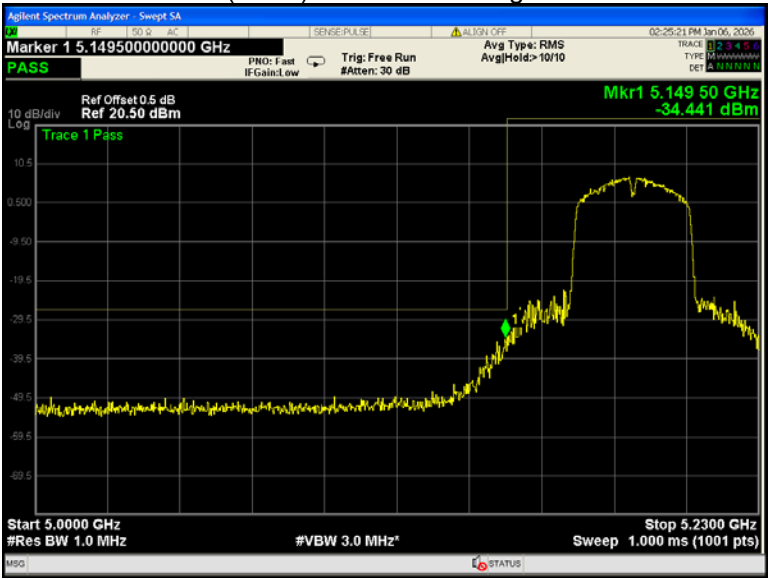
802.11n(HT20) U-NII-3 Band edge-left side



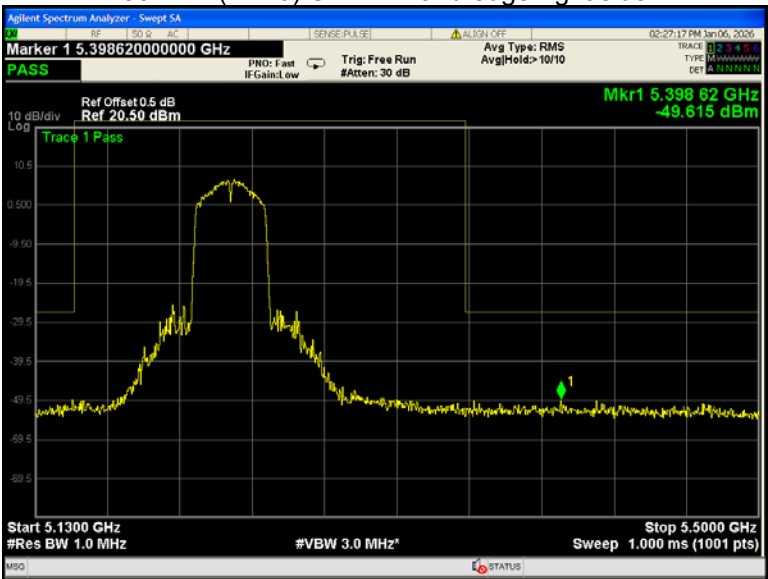
802.11n(HT20) U-NII-3 Band edge-right side



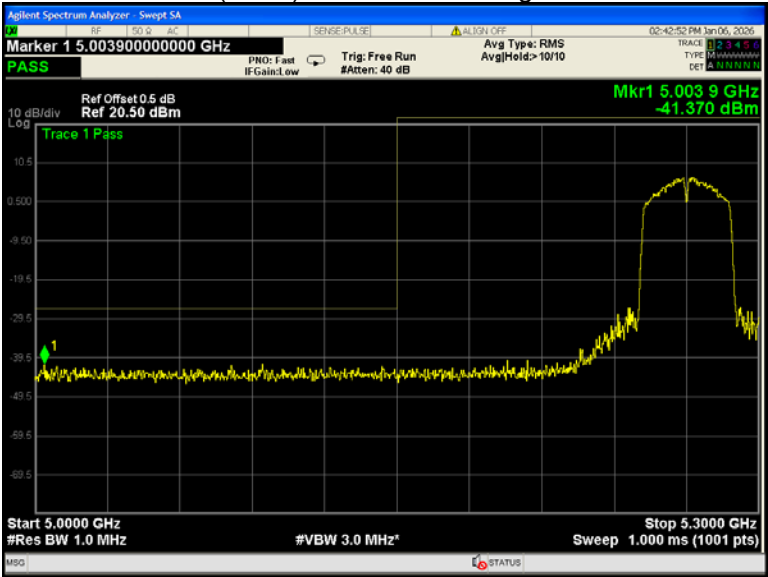
802.11n(HT40) U-NII-1 Band edge-left side



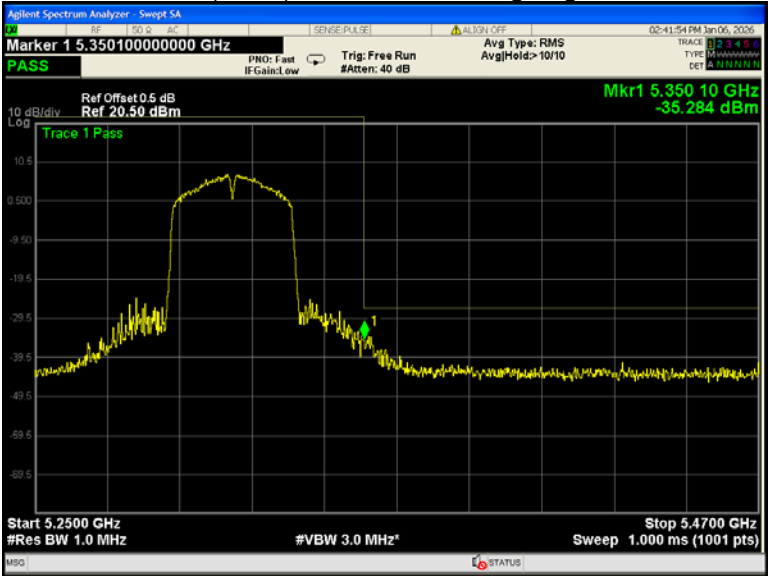
802.11n(HT40) U-NII-1 Band edge-right side



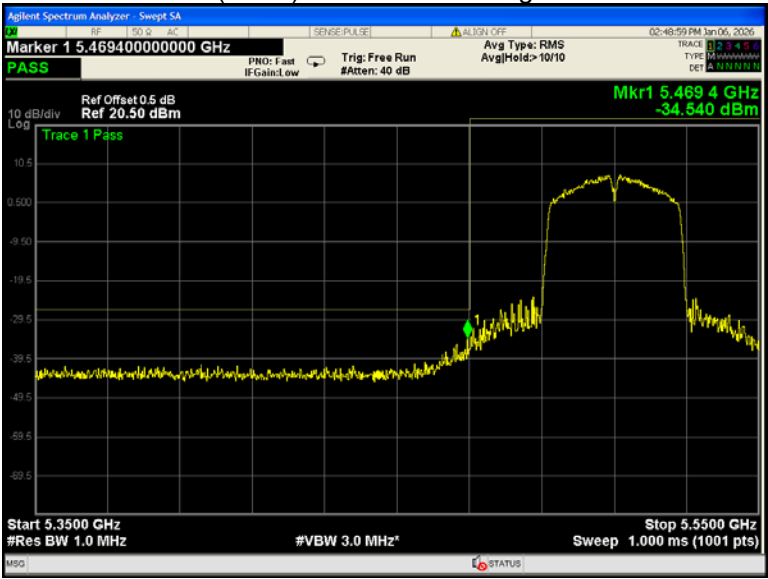
802.11n(HT40) U-NII-2A Band edge-left side



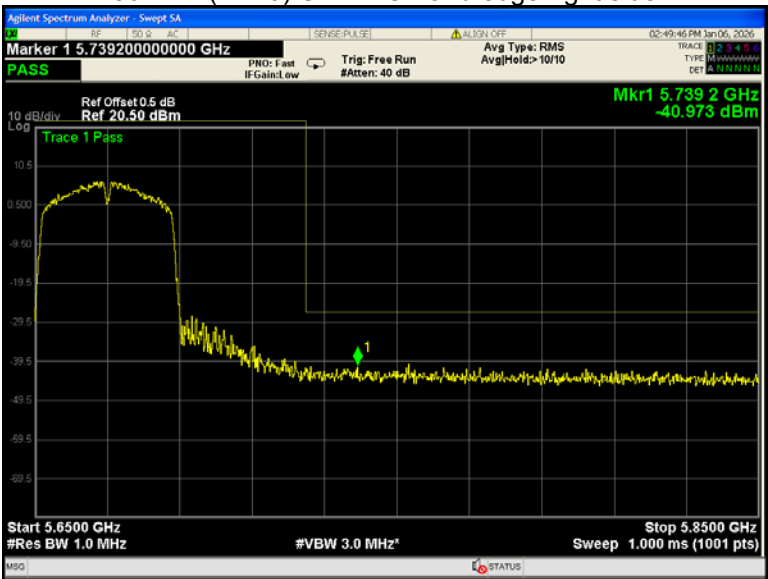
802.11n(HT40) U-NII-2A Band edge-right side



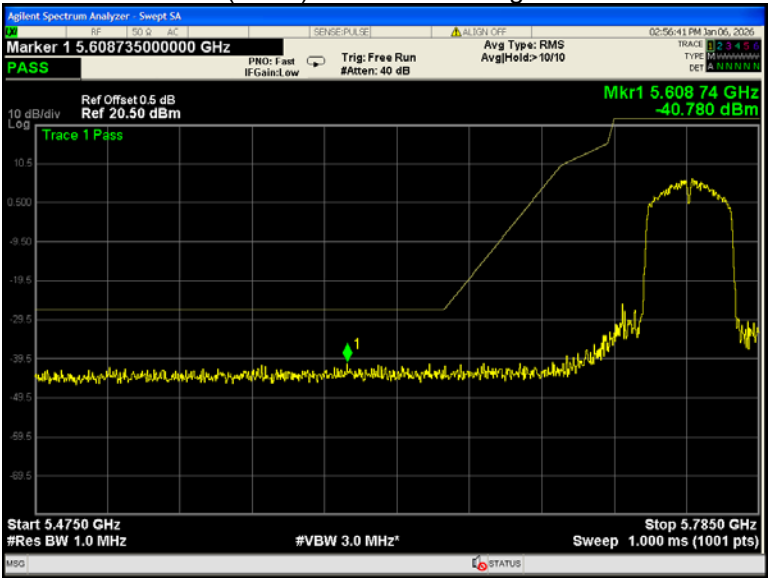
802.11n(HT40) U-NII-2C Band edge-left side



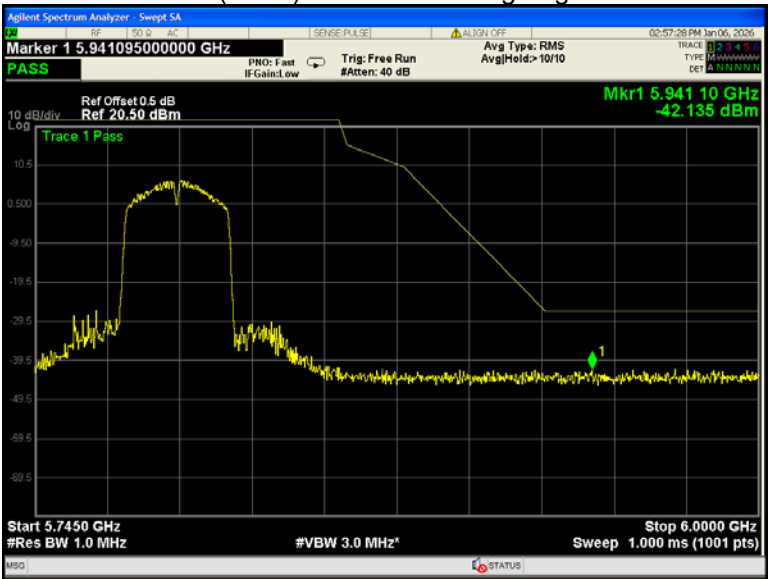
802.11n(HT40) U-NII-2C Band edge-right side



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



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



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

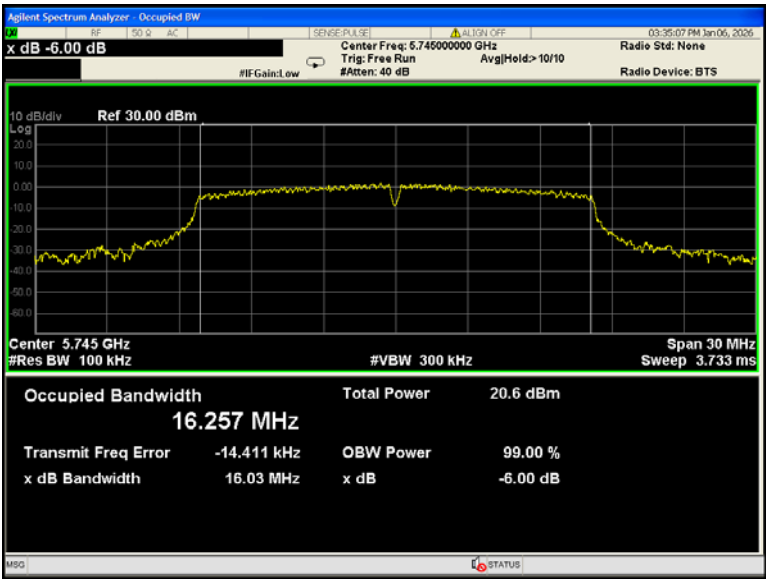
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result

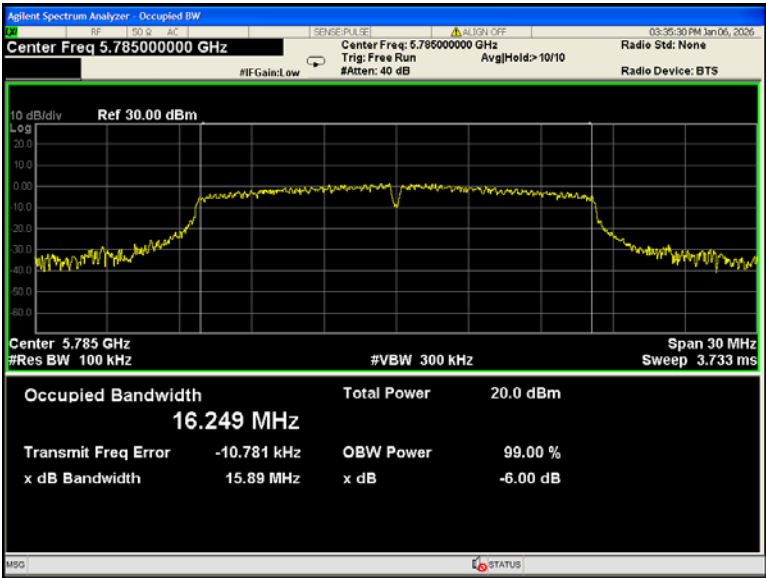
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.03	15.89	15.89
	802.11n(HT20)	16.29	16.77	16.89
	802.11n(HT40)	31.16	/	31.90

Test result plots shown as follows:

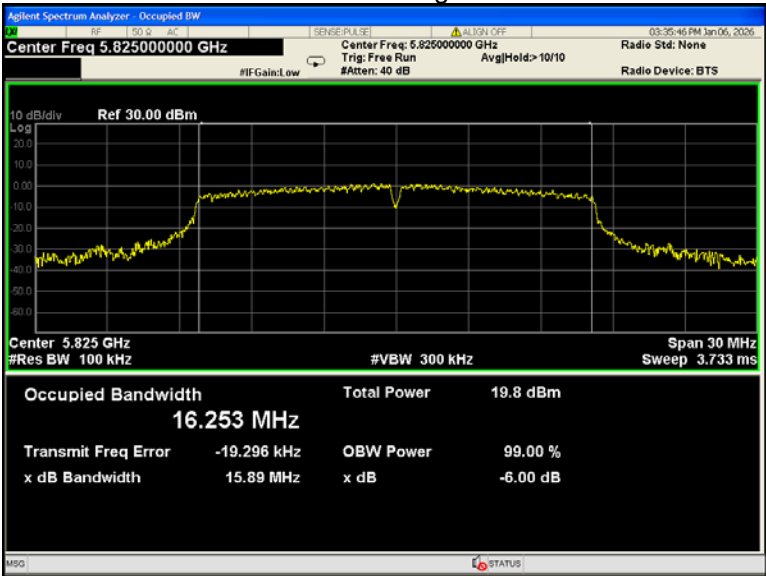
802.11a U-NII-3 Low channel



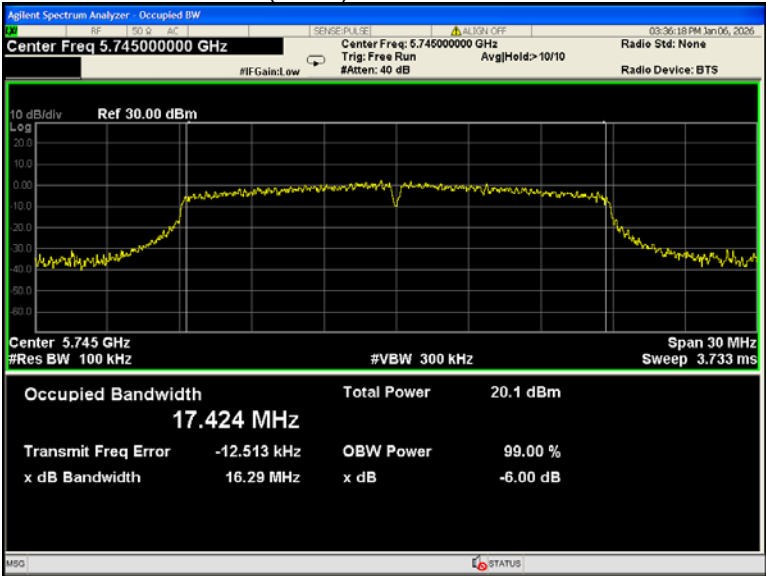
802.11a U-NII-3 Middle channel



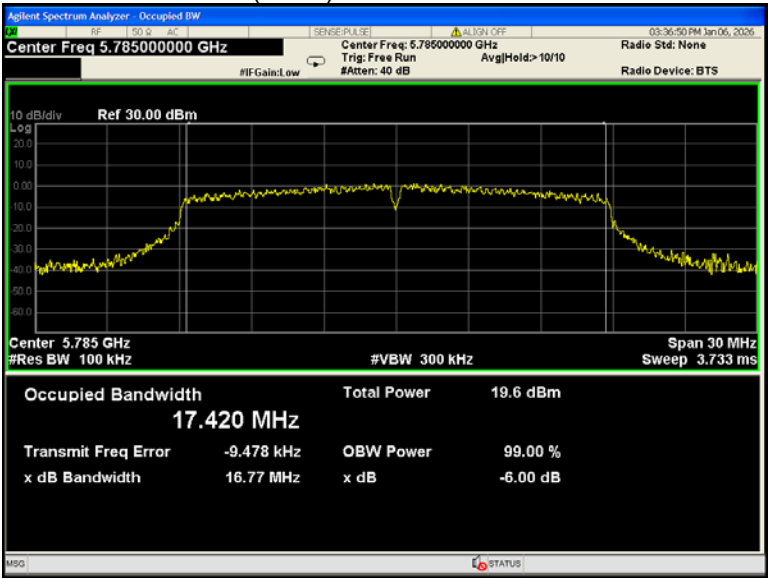
802.11a U-NII-3 High channel



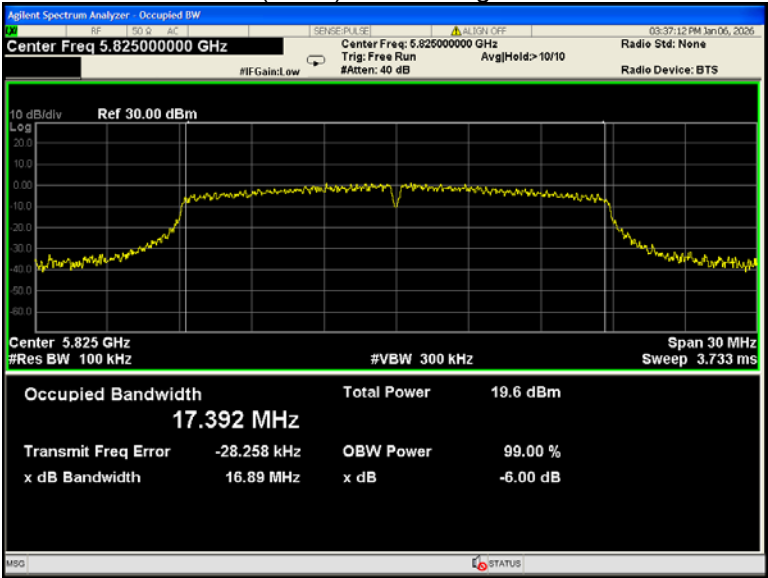
802.11n(HT20) U-NII-3 Low channel



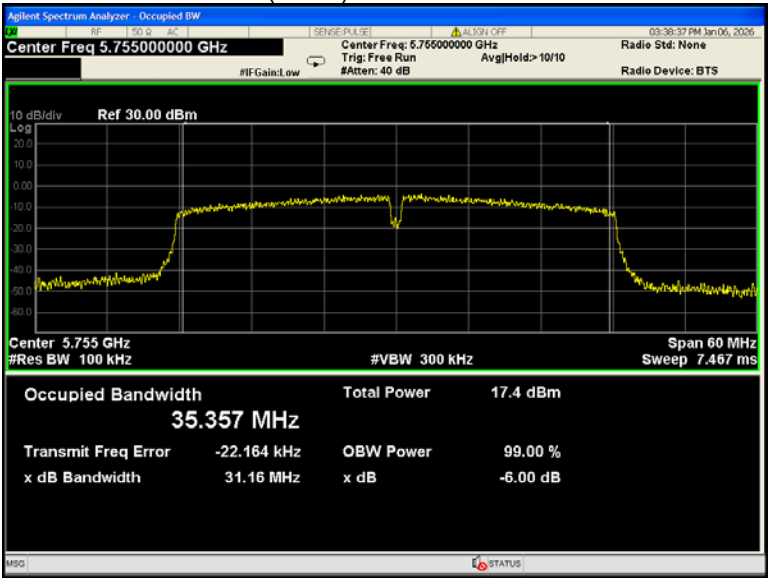
802.11n(HT20) U-NII-3 Middle channel



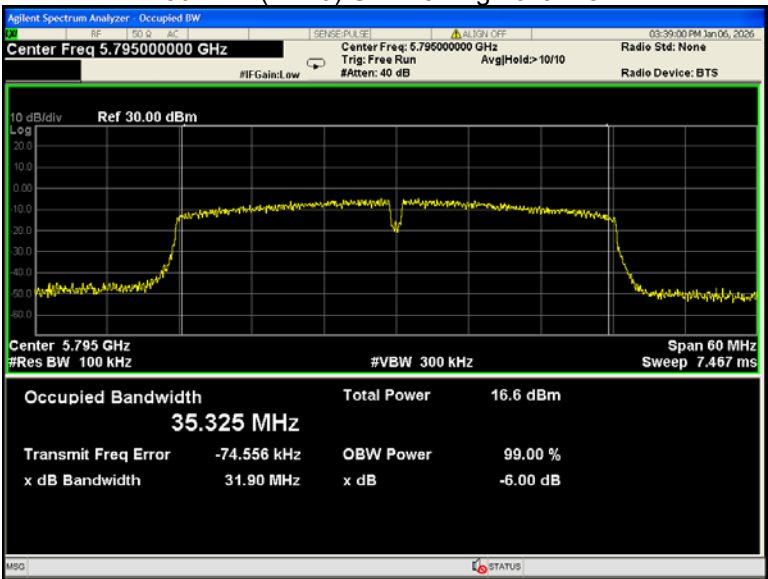
802.11n(HT20) U-NII-3 High channel



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



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



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	26.14	24.91	24.41	16.398	16.353	16.323
	802.11n(HT20)	26.24	23.10	21.76	17.515	17.462	17.437
	802.11n(HT40)	37.88	/	37.89	35.289	/	35.277

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2A	802.11a	23.68	22.73	24.76	16.331	16.287	16.318
	802.11n(HT20)	21.71	21.05	20.74	17.418	17.427	17.435
	802.11n(HT40)	37.91	/	37.94	35.268	/	35.276

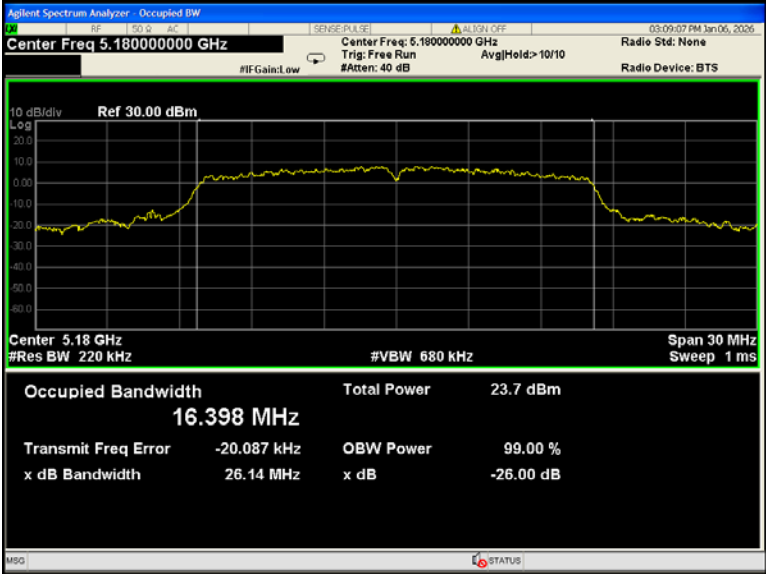
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2C	802.11a	22.77	20.78	21.23	16.350	16.273	16.274
	802.11n(HT20)	20.99	20.03	20.05	17.435	17.413	17.398
	802.11n(HT40)	37.93	38.02	37.76	35.317	35.307	35.309

Band	Operation mode	99% Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.280	16.264	16.282
	802.11n(HT20)	17.404	17.402	17.395
	802.11n(HT40)	35.296	/	35.273

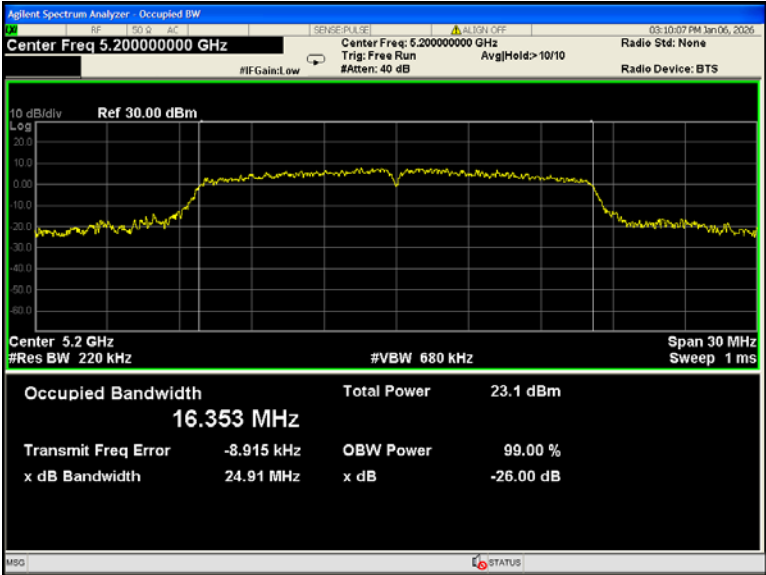
Test result plots shown as follows:

26 dB Bandwidth and 99% Occupied Bandwidth

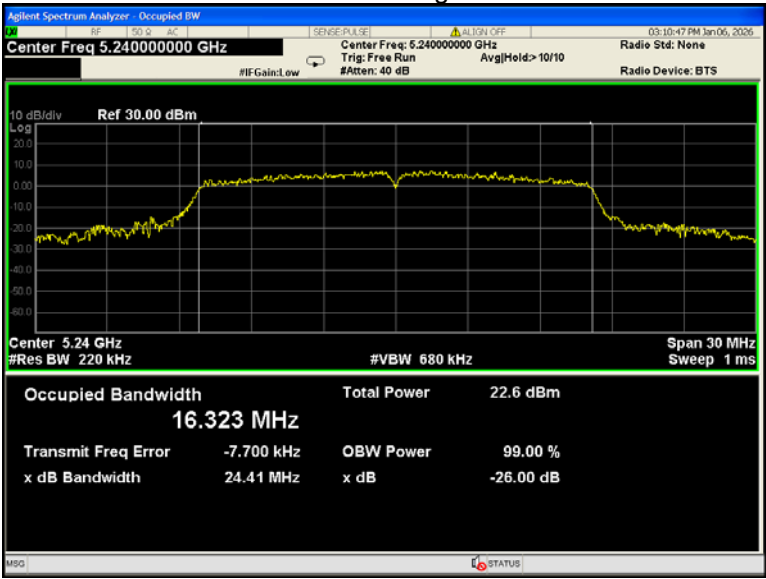
802.11a U-NII-1 Low channel



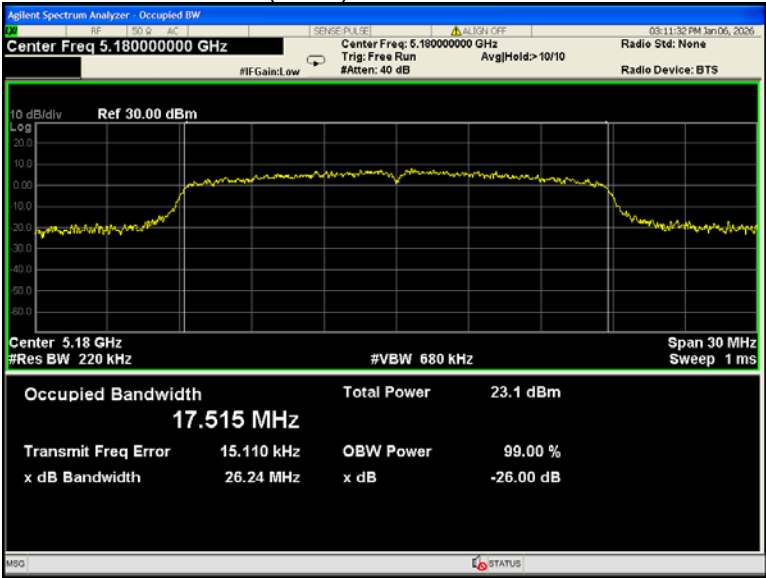
802.11a U-NII-1 Middle channel



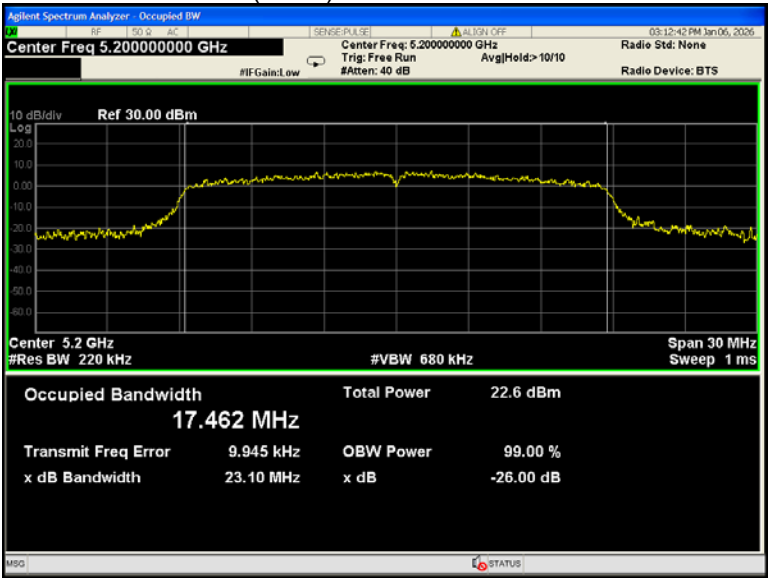
802.11a U-NII-1 High channel



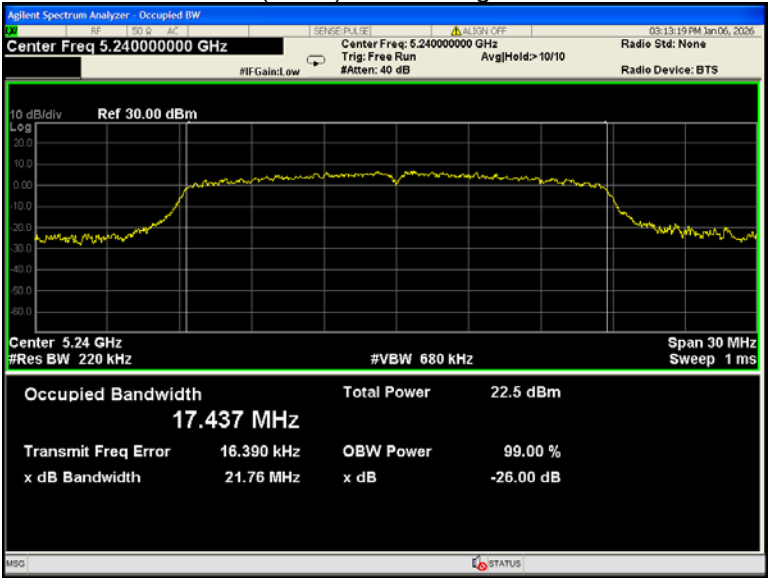
802.11n(HT20) U-NII-1 Low channel



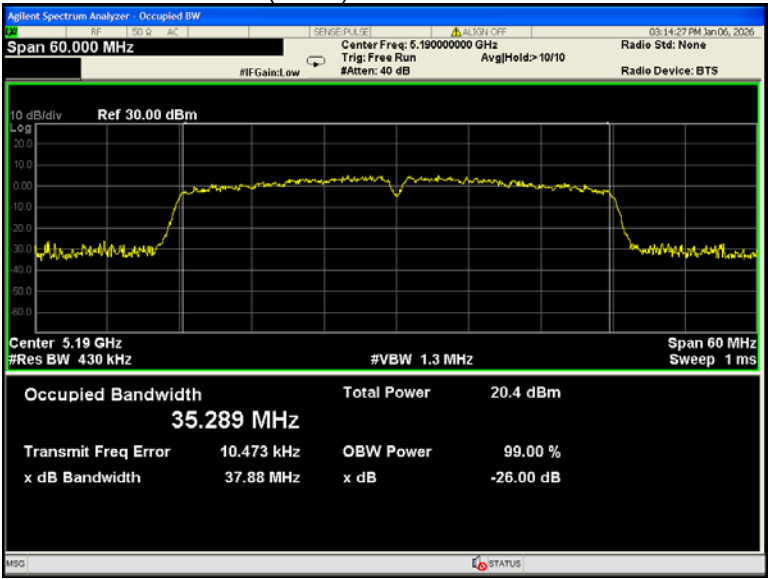
802.11n(HT20) U-NII-1 Middle channel



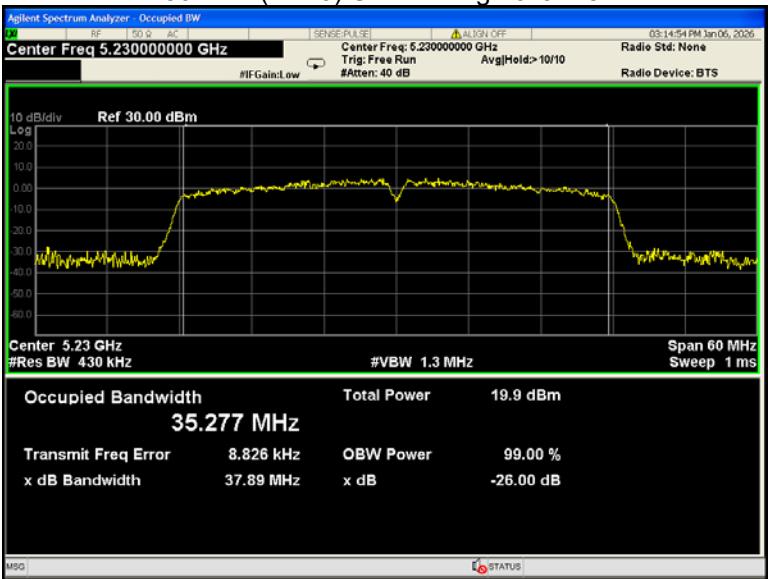
802.11n(HT20) U-NII-1 High channel



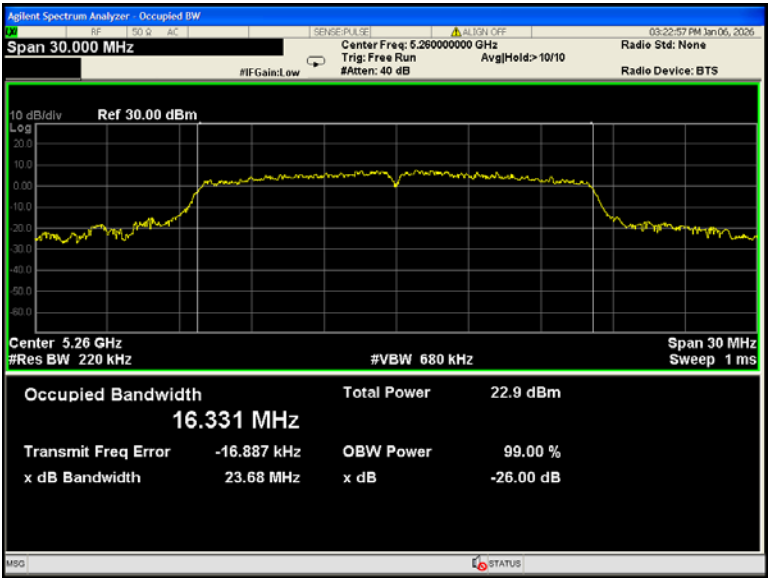
802.11n(HT40) U-NII-1 Low channel



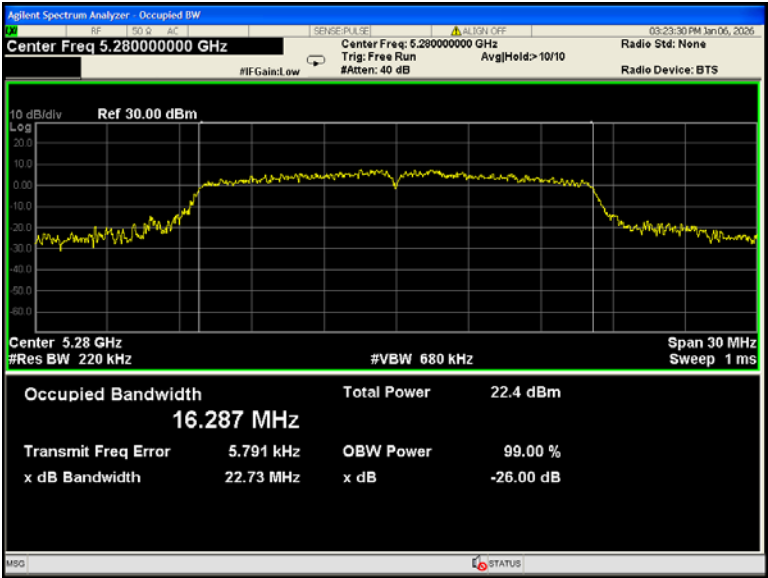
802.11n(HT40) U-NII-1 High channel



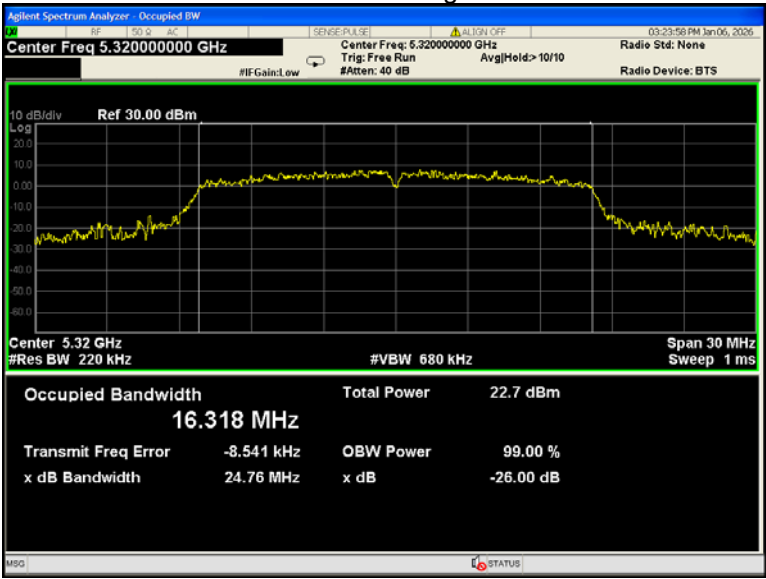
802.11a U-NII-2A Low channel



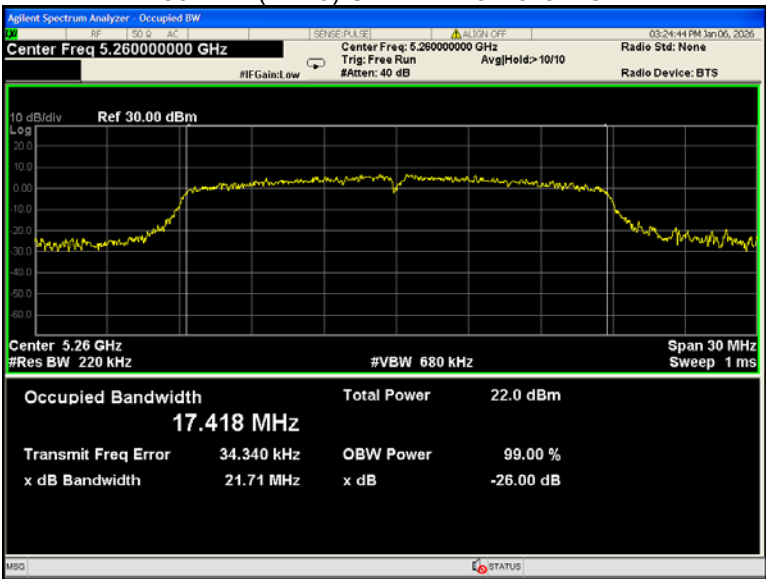
802.11a U-NII-2A Middle channel



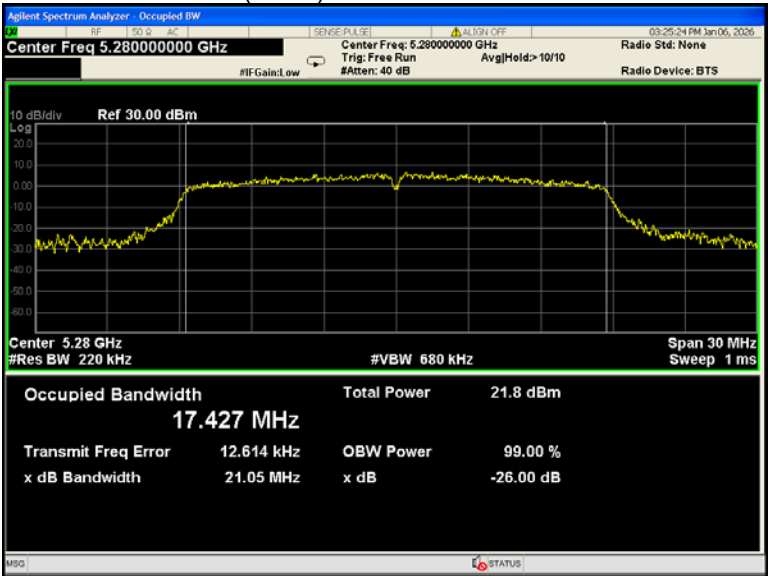
802.11a U-NII-2A High channel



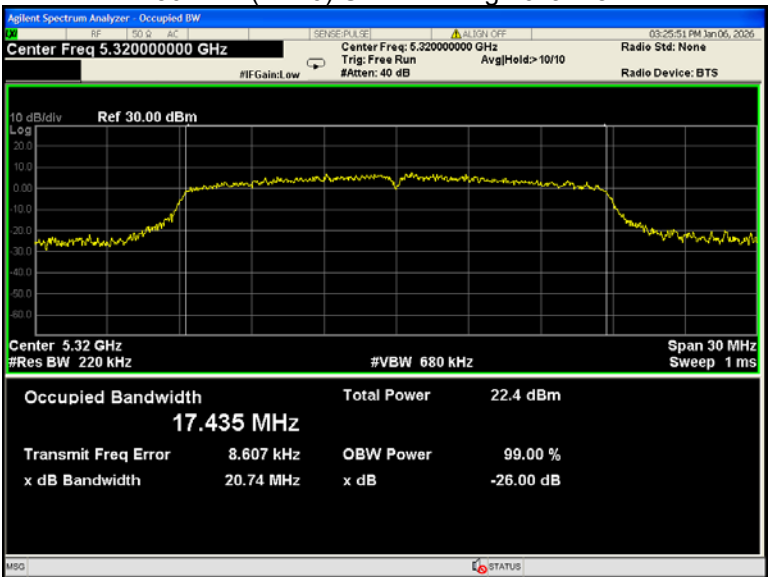
802.11n(HT20) U-NII-2A Low channel



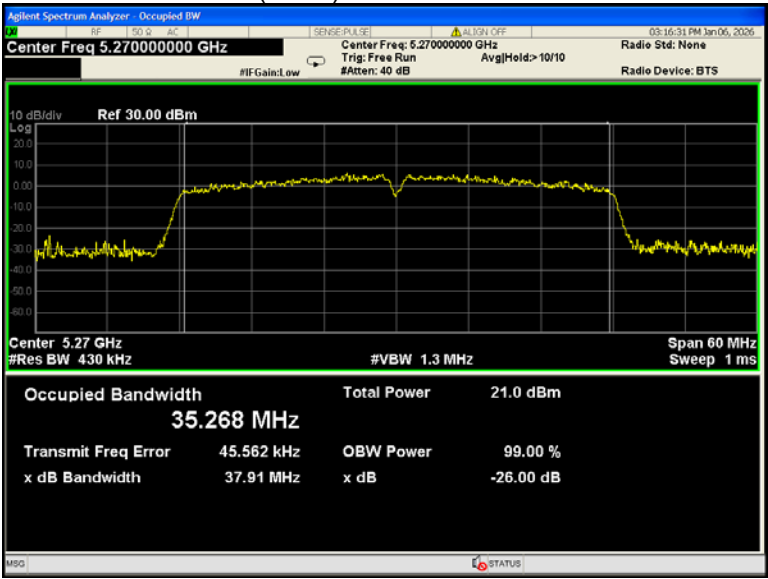
802.11n(HT20) U-NII-2A Middle channel



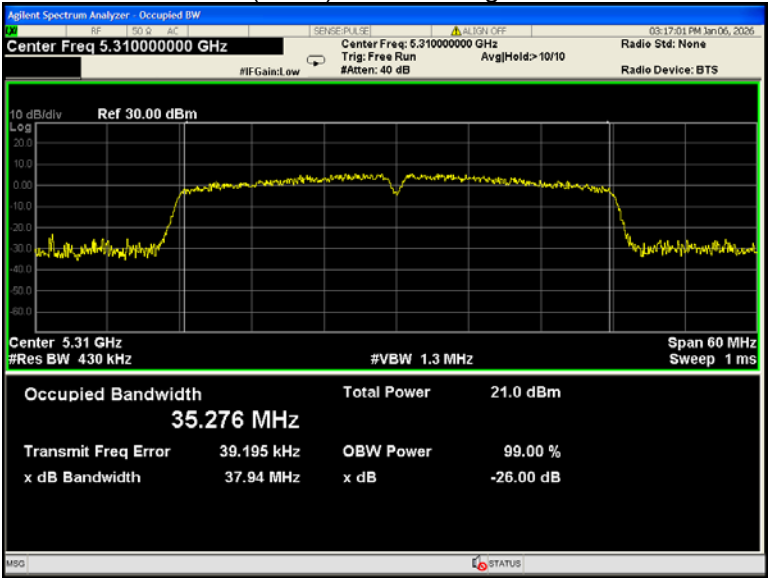
802.11n(HT20) U-NII-2A High channel



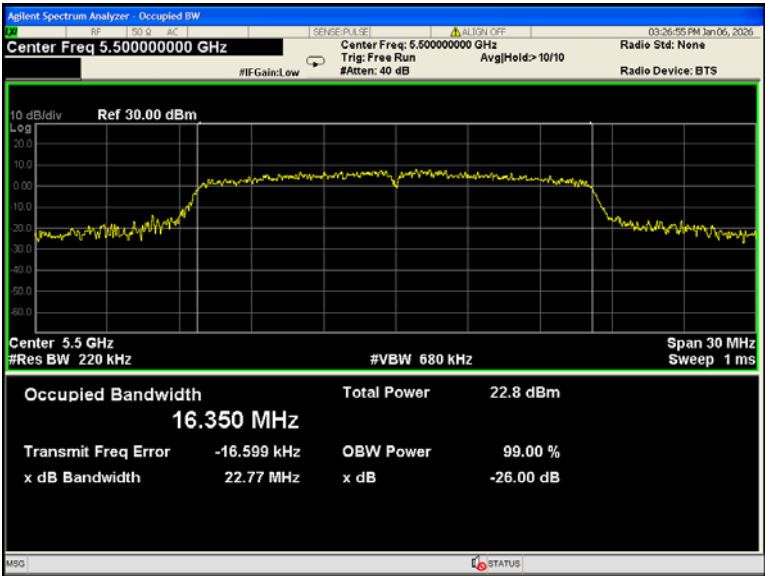
802.11n(HT40) U-NII-2A Low channel



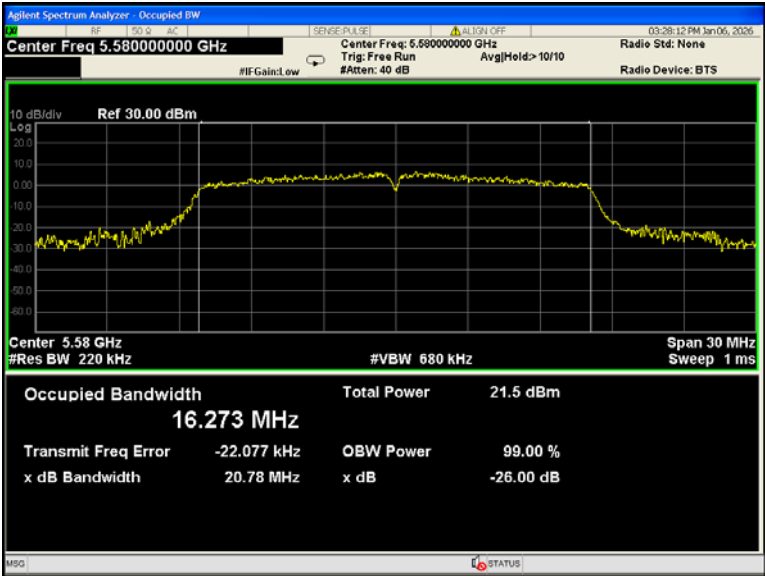
802.11n(HT40) U-NII-2A High channel



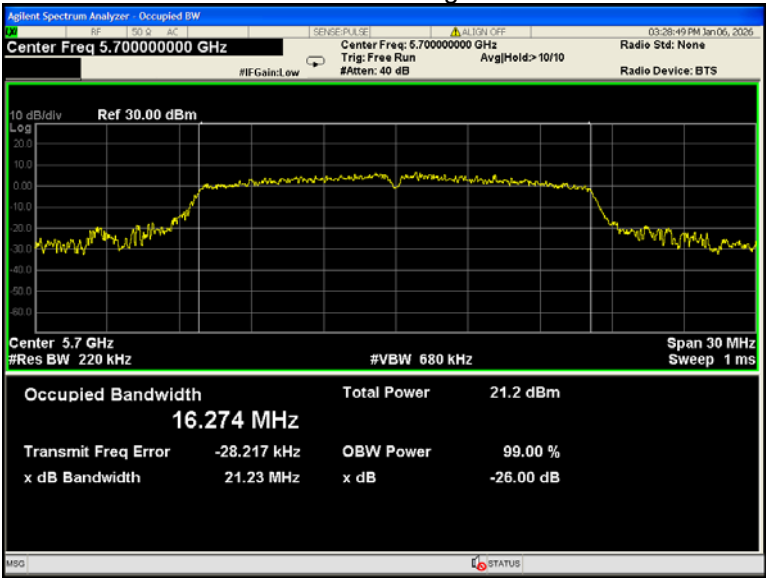
802.11a U-NII-2C Low channel



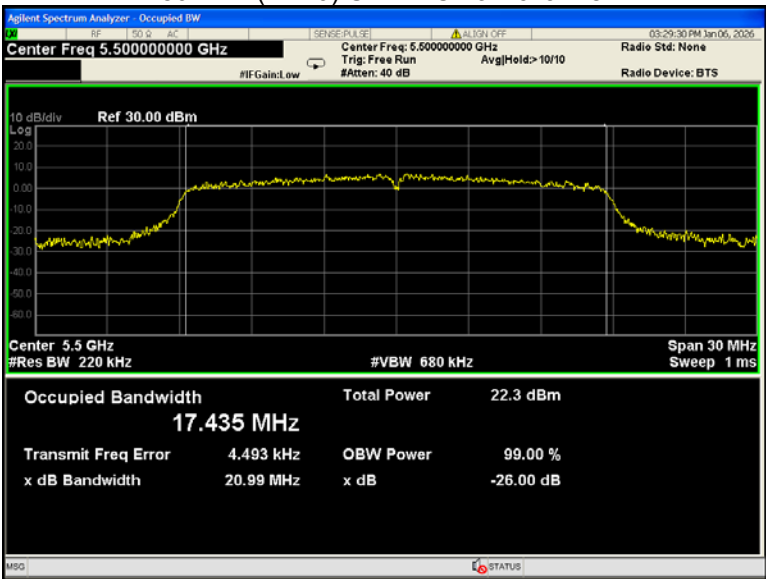
802.11a U-NII-2C Middle channel



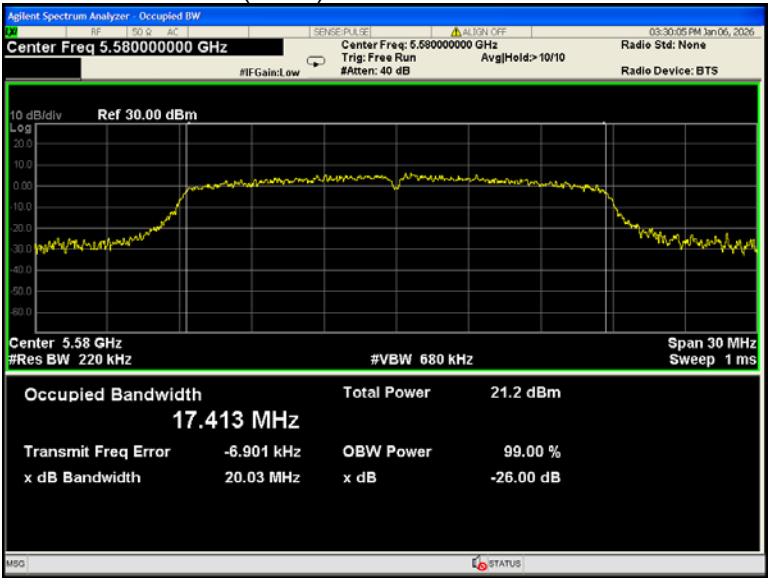
802.11a U-NII-2C High channel



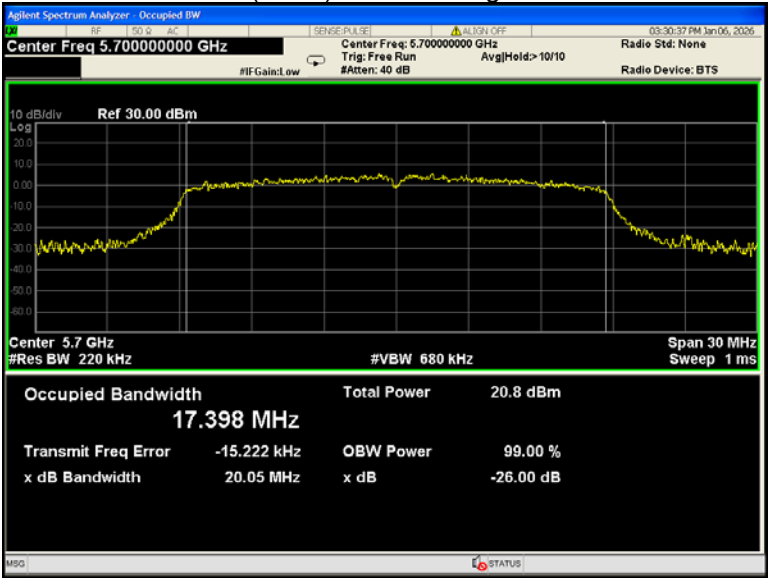
802.11n(HT20) U-NII-2C Low channel



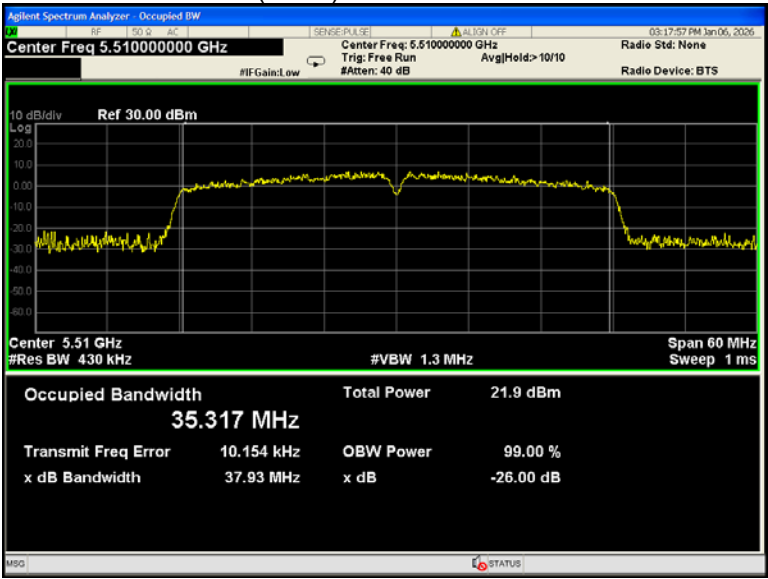
802.11n(HT20) U-NII-2C Middle channel



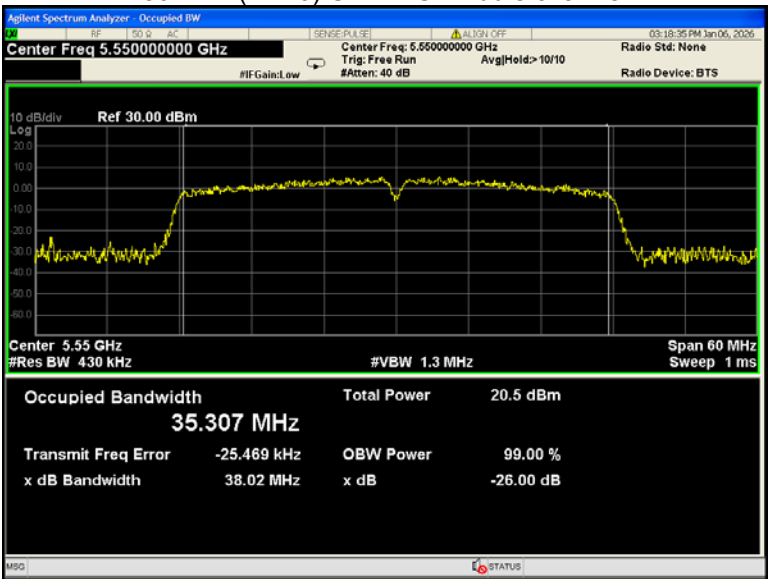
802.11n(HT20) U-NII-2C High channel

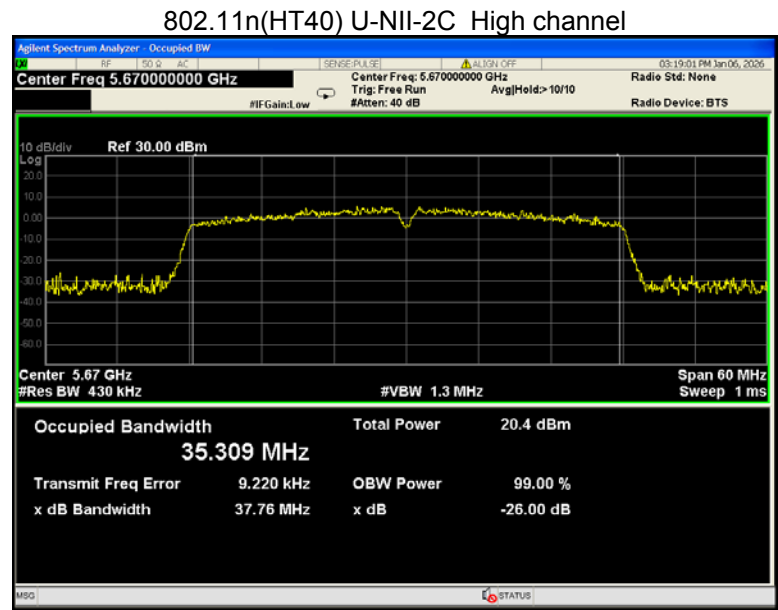


802.11n(HT40) U-NII-2C Low channel

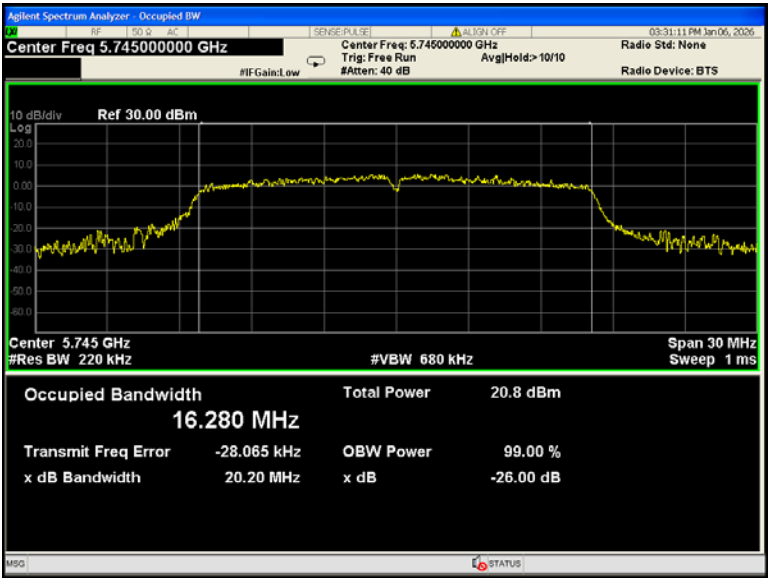


802.11n(HT40) U-NII-2C Middle channel

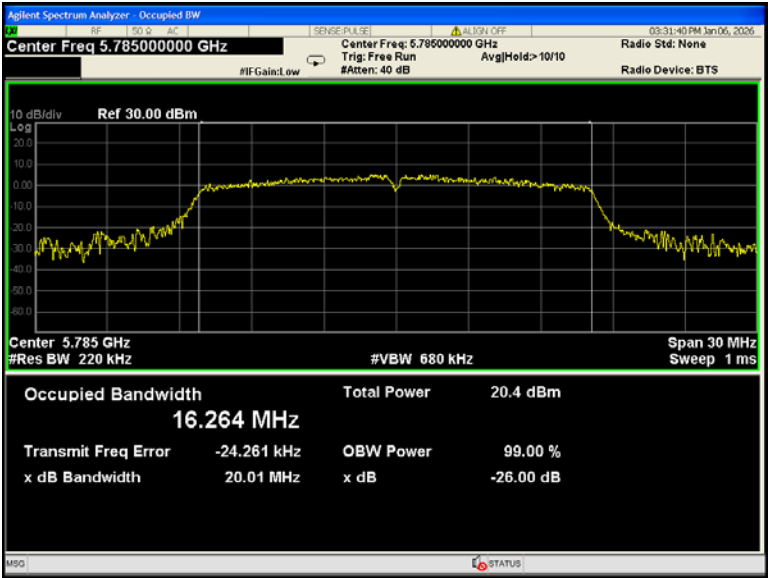




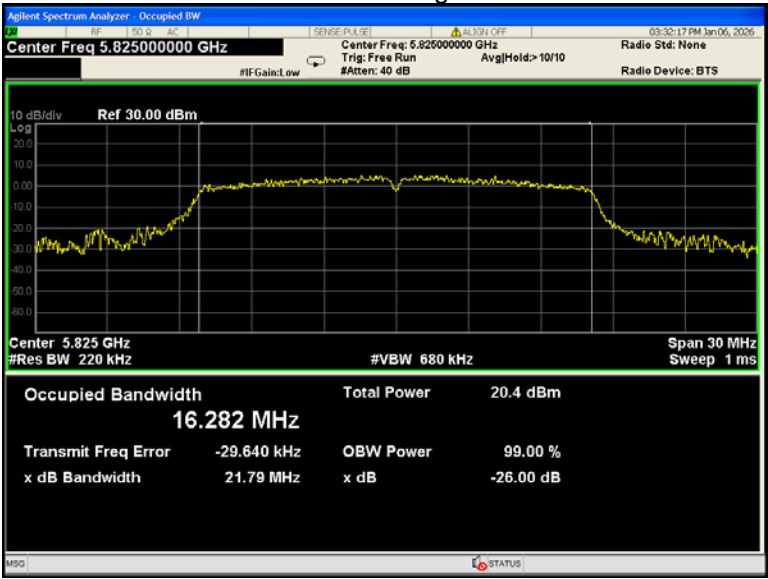
802.11a U-NII-3 Low channel



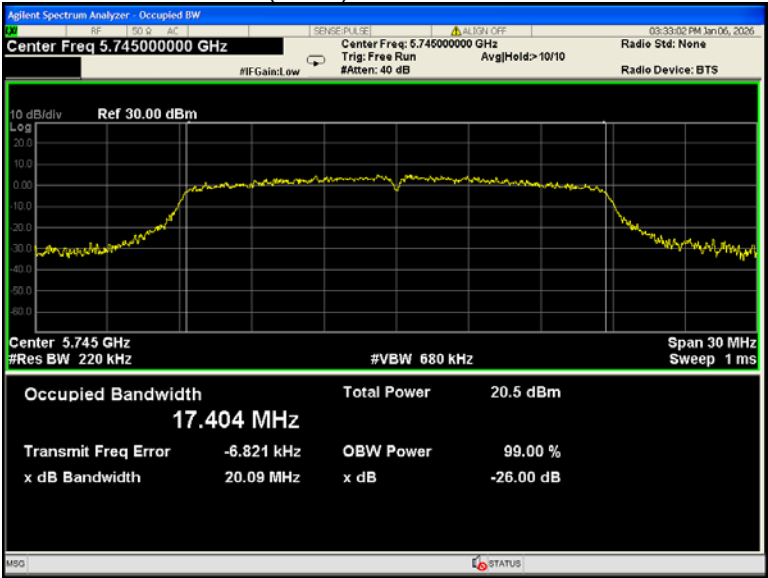
802.11a U-NII-3 Middle channel



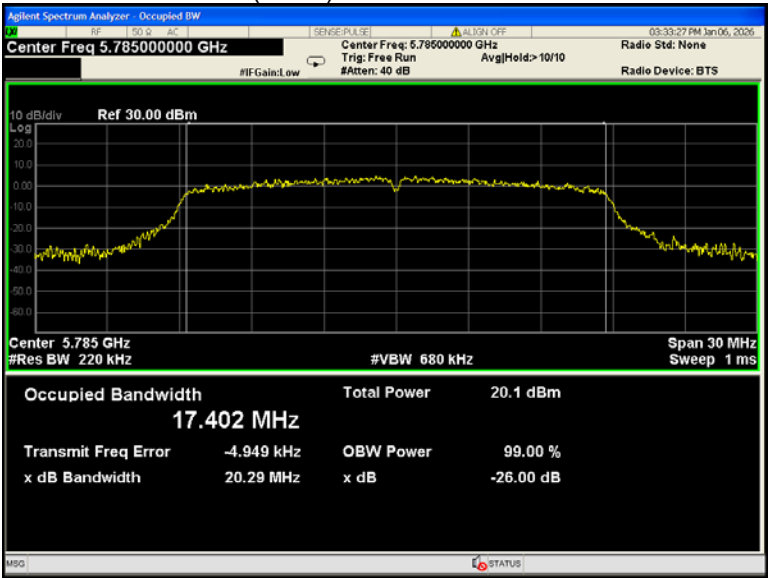
802.11a U-NII-3 High channel



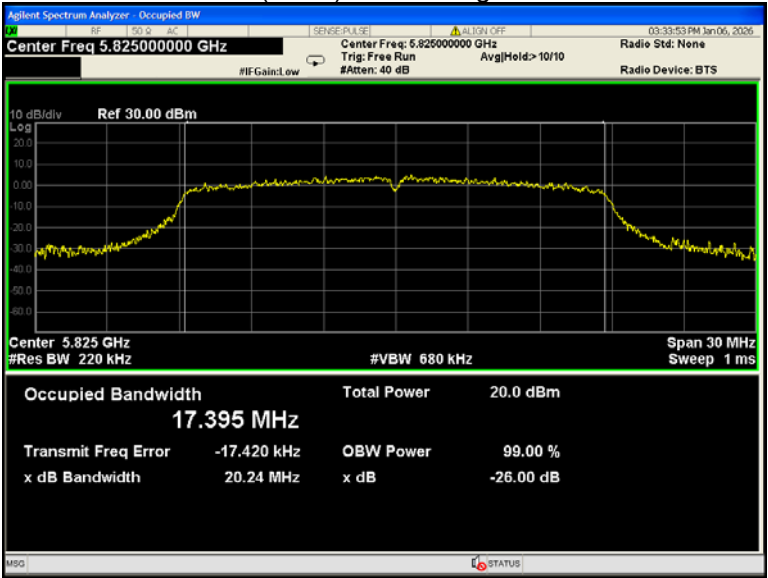
802.11n(HT20) U-NII-3 Low channel



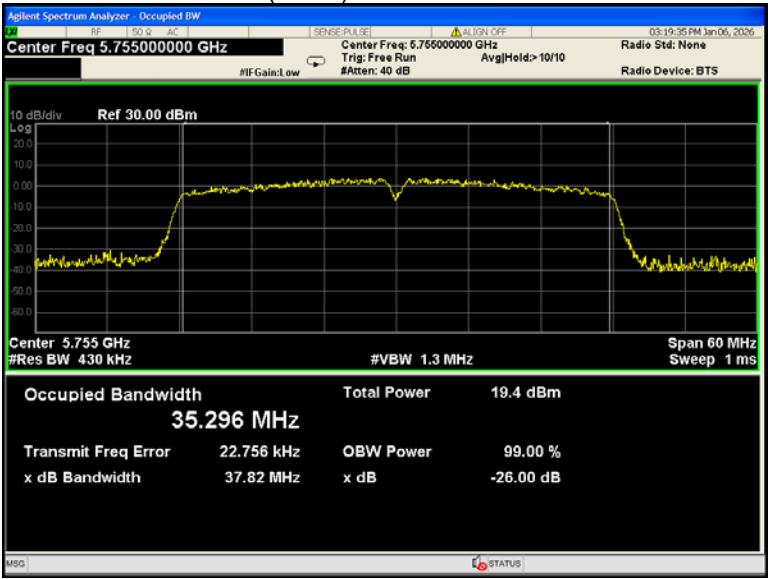
802.11n(HT20) U-NII-3 Middle channel



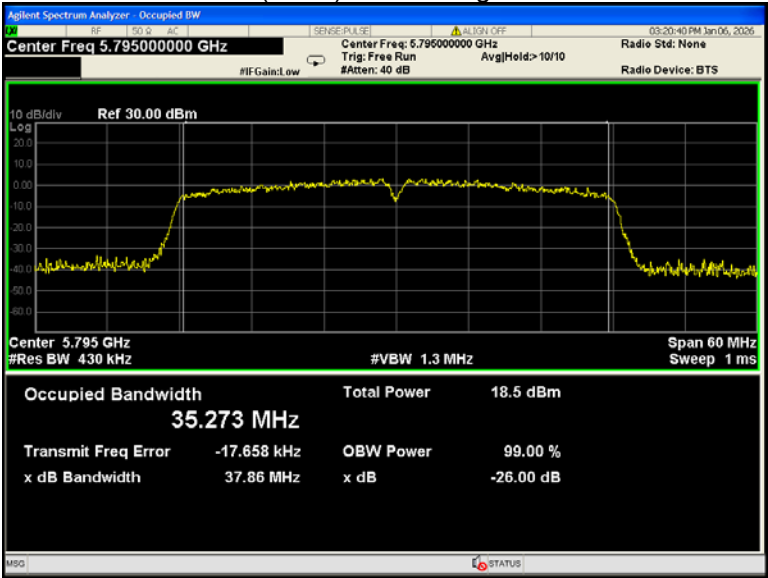
802.11n(HT20) U-NII-3 High channel



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



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



13 Maximum Conducted Output Power

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 E
Test Limit:	For the band 5.15-5.25 GHz For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. For the band 5.725-5.850 GHz For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
Test Result:	PASS Conducted output power= measurement power+10log(1/x)
Remark:	X is duty cycle=1, so $10\log(1/1)=0$ Conducted output power= measurement power

13.1 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 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

13.2 Test Result

Band	Operation mode	Maximum Conducted Output Power (dBm)		
		Low	Middle	High
U-NII-1	802.11a	16.60	16.18	15.81
	802.11n(HT20)	16.17	15.89	15.49
	802.11n(HT40)	13.79	/	13.23

Band	Operation mode	Maximum Conducted Output Power (dBm)		
		Low	Middle	High
U-NII-2A	802.11a	17.66	17.58	17.62
	802.11n(HT20)	17.12	17.19	17.28
	802.11n(HT40)	14.59	/	14.87

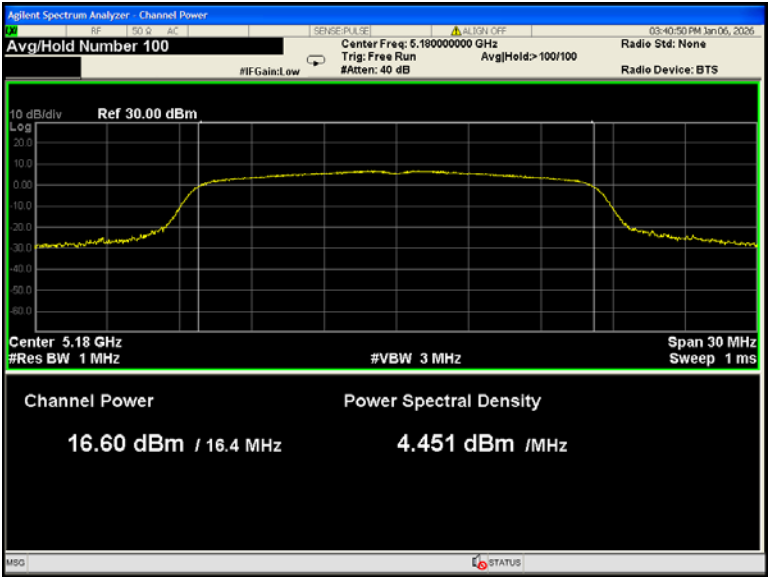
Band	Operation mode	Maximum Conducted Output Power (dBm)		
		Low	Middle	High
U-NII-2C	802.11a	17.32	16.15	15.89
	802.11n(HT20)	18.02	17.26	17.14
	802.11n(HT40)	14.82	14.38	14.04

Band	Operation mode	Maximum Conducted Output Power (dBm)		
		Low	Middle	High
U-NII-3	802.11a	16.85	16.65	16.40
	802.11n(HT20)	16.66	16.57	16.36
	802.11n(HT40)	14.28	/	13.90

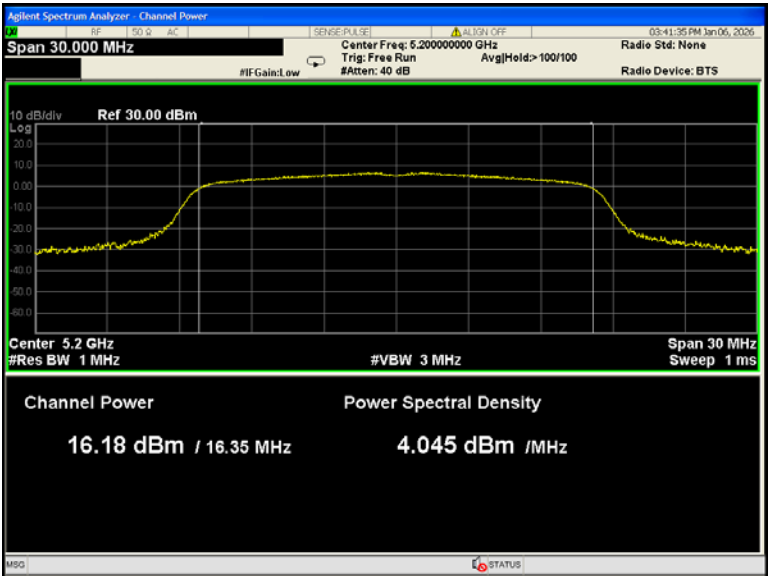
* All transmit signals are completely uncorrelated with each other, Directional gain = G_{ANT} which is less than 6dBi. So the limit does not be reduced.

Test result plots shown as follows:

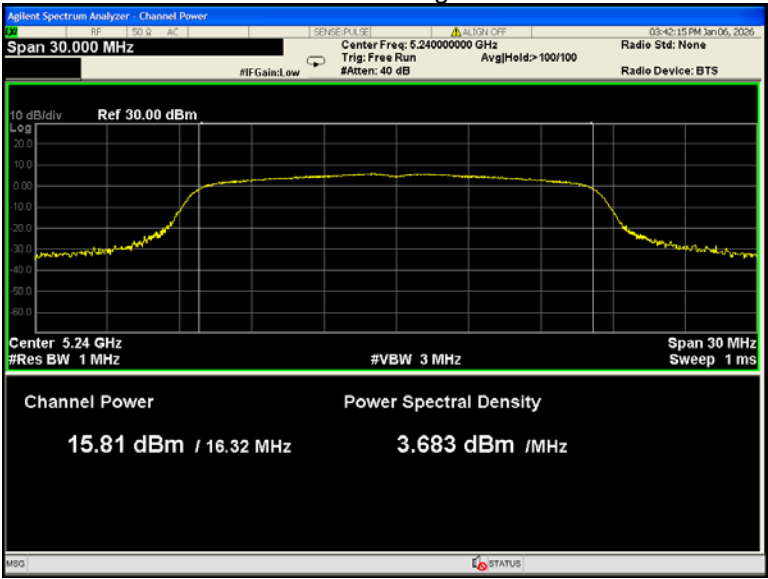
802.11a U-NII-1 Low channel



802.11a U-NII-1 Middle channel



802.11a U-NII-1 High channel



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

