

TEST REPORT

Reference No. : WTH26D05132917W005
FCC ID..... : 2BDX6-RS1-C01
Applicant : RVLOCK & CO, LLC
Address : 1770 WEST 2690 SOUTH, WELLSVILLE, Utah 84339, United States
Manufacturer : RVLOCK & CO, LLC
Address : 1770 WEST 2690 SOUTH, WELLSVILLE, Utah 84339, United States
Factory : SHENZHEN GIEC DIGITAL CO.,LTD
Address : 1st & 3rd Building, No. 26 Puzai Road, Pingdi, Longgang District, Shenzhen, China.
Product Name : RVLock Scout Camera
Model No. : RS1-C01
Standards : FCC 47CFR Part 15 Section 15.407
Date of Receipt Sample : 2026-05-18
Date of Test..... : 2026-05-20 to 2026-06-04
Date of Issue : 2026-06-22
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.

Prepared By:

Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China

Tel: +86-769-2267 6998

Fax: +86-769-2267 6828

Compiled by:

Approved by:

Estel Qian

Estel Qian / Project Engineer



Deval Qin / Designated Reviewer

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTH26D05132917W005	2026-05-18	2026-05-20 to 2026-06-04	2026-06-22	original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	RVLock Scout Camera
Model(s):	RS1-C01
Model Description:	N/A
Test Sample No.:	1-1/1
Wi-Fi Specification:	5G-802.11a/n(HT20/40)/ac(VHT20/40)/ax(HE20/40)
Hardware Version:	IPC-MPEG-60G
Software Version:	V1.1.0
Highest frequency (Exclude Radio):	1.3GHz
Storage Location:	Internal Storage

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n(HT20)/ac(VHT20)/ax(HE20): U-NII-1: 5180-5240MHz, U-NII-3: 5745-5825MHz 802.11n(HT40)/ac(VHT40)/ax(HE40): U-NII-1: 5190-5230MHz, U-NII-3: 5755-5795MHz
Max. RF output power:	U-NII-1: 15.59dBm U-NII-3: 17.17dBm
Type of Modulation:	OFDM, OFDMA
Partial RU:	Not support
TX Power Control (TPC):	Not support
Channel Separation:	20MHz, 40MHz
Antenna installation:	FPC Antenna
Antenna Gain:	U-NII-1: 1.14dBi U-NII-3: 2.44dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTERK lab has not verified the authenticity of its information.

Ratings:	Charge voltage DC 5V
Battery:	DC 3.7V 5200mAh 19.24Wh

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-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(HT20)/ac(VHT20)/ax(HE20):

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

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

For 802.11n(HT40)/ac(VHT40)/ax(HE40):

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

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)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Duty Cycle	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Band Edge	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
6dB Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Maximum Conducted Output Power	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Power Spectral Density	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2026-04-07	2027-04-06
2	Amplifier	Agilent	8447D	2944A10178	2025-07-04	2026-07-03
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2025-07-20	2026-07-19
4	Coaxial Cable	Top	TYPE16(13M)	-	2026-04-07	2027-04-06
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	PAP-1G18	2004	2025-07-04	2026-07-03
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2026-04-07	2027-04-06
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2025-07-04	2026-07-03
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2025-07-08	2026-07-07
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2026-04-07	2027-04-06
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05	2026-07-04
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2026-04-19	2027-04-18
4	Amplifier	ANRITSU	MH648A	M43381	2026-04-07	2027-04-06
5	Cable	HUBER+SUHNER	CBL2	525178	2026-04-07	2027-04-06
RF Conducted Testing						
1	Spectrum Analyzer	R&S	FSP40	100501	2025-07-04	2026-07-03
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-07-04	2026-07-03

Test Software:

Test Item	Software name	Software version
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)	N/A*
Radiated Emissions	15.407(b) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS
6dB Bandwidth	15.407(e)	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(b)	PASS
Frequency stability	15.407(g)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

Note: * the device can't work when charging, not applicable to the test.

7 Duty cycle

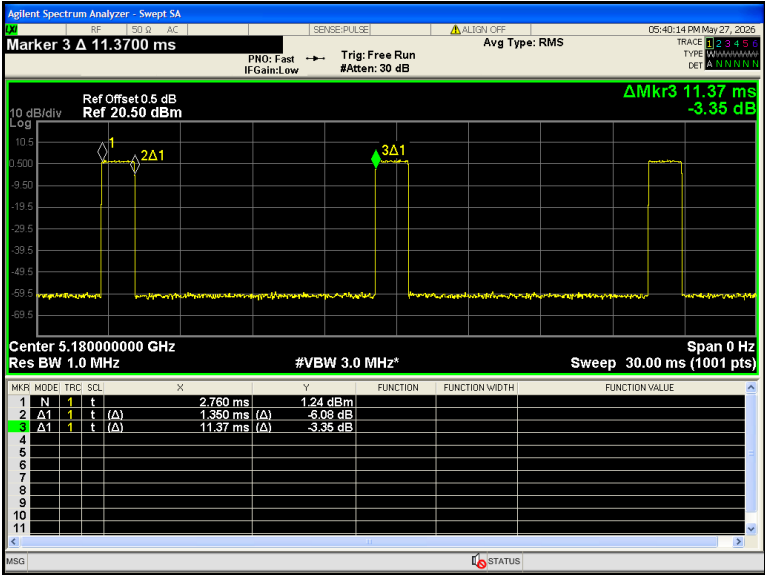
Test Requirement:	FCC 47CFR Part 15 Section 15.407 KDB789033 D02 General U-NII Test Procedures New Rules v02r01, Section (B)
Test Method:	ANSI C63.10-2020
Test Limit:	N/A
Test Result:	PASS
Remark:	Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded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

7.1 Summary of Test Results

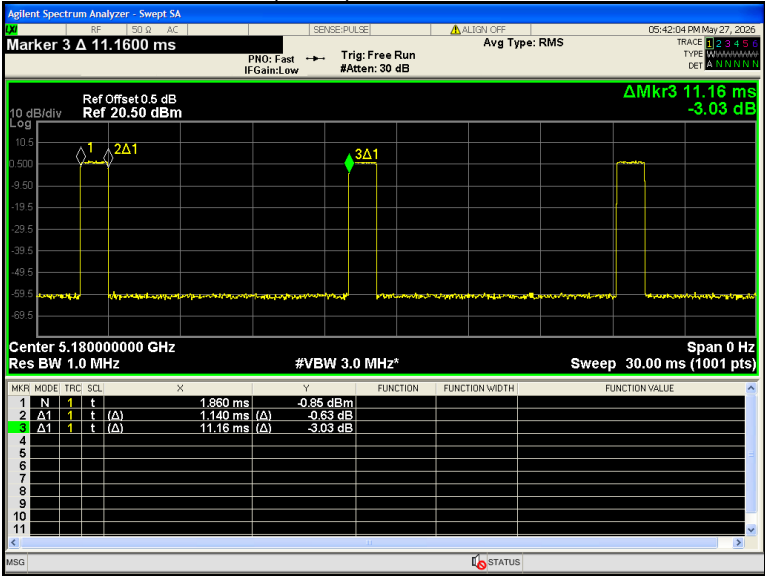
Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
U-NII-1 802.11a	1.35	11.37	0.12	11.87	9.25	-18.51
U-NII-1 802.11n(HT20)	1.14	11.16	0.10	10.22	9.91	-19.82
U-NII-1 802.11n(HT40)	0.63	10.65	0.06	5.92	12.28	-24.56
U-NII-1 802.11ac(VHT20)	1.26	11.31	0.11	11.14	9.53	-19.06
U-NII-1 802.11ac(VHT40)	0.63	10.65	0.06	5.92	12.28	-24.56
U-NII-1 802.11ax(HE20)	0.99	11.01	0.09	8.99	10.46	-20.92
U-NII-1 802.11ax(HE40)	0.51	10.56	0.05	4.83	13.16	-26.32
U-NII-3 802.11a	1.367	11.39	0.12	12.00	9.21	-18.42
U-NII-3 802.11n(HT20)	1.277	11.30	0.11	11.30	9.47	-18.94
U-NII-3 802.11n(HT40)	0.6467	10.67	0.06	6.06	12.17	-24.35
U-NII-3 802.11ac(VHT20)	1.277	11.30	0.11	11.30	9.47	-18.94
U-NII-3 802.11ac(VHT40)	0.6467	10.67	0.06	6.06	12.17	-24.35
U-NII-3 802.11ax(HE20)	0.9767	11.00	0.09	8.88	10.52	-21.03
U-NII-3 802.11ax(HE40)	0.5267	10.55	0.05	4.99	13.02	-26.03

Test result plots shown as follows:

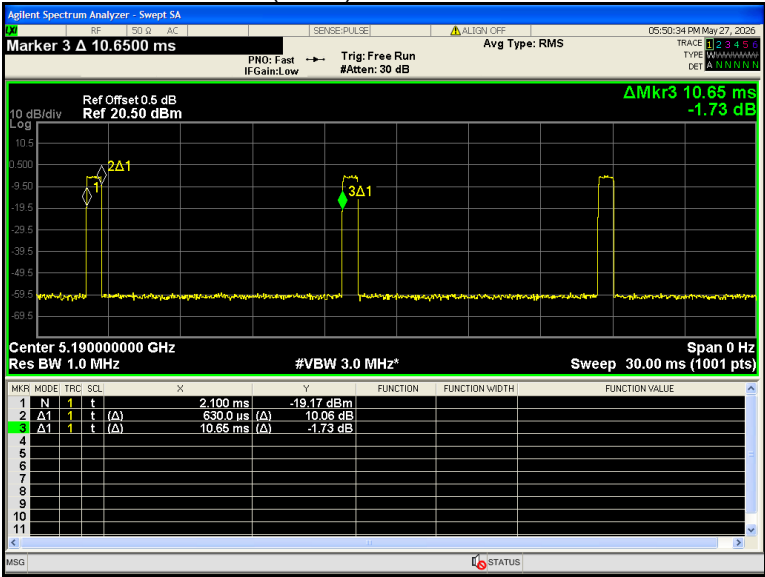
802.11a U-NII-1 Low channel



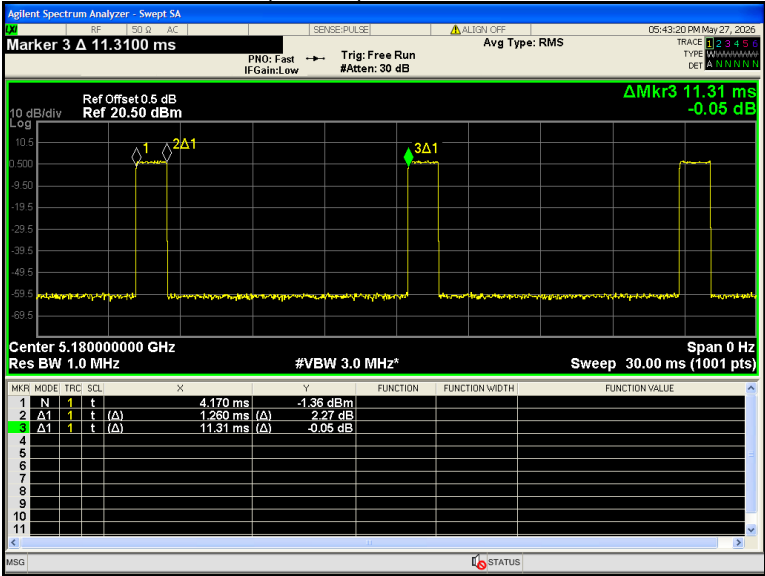
802.11n(HT20) U-NII-1 Low channel



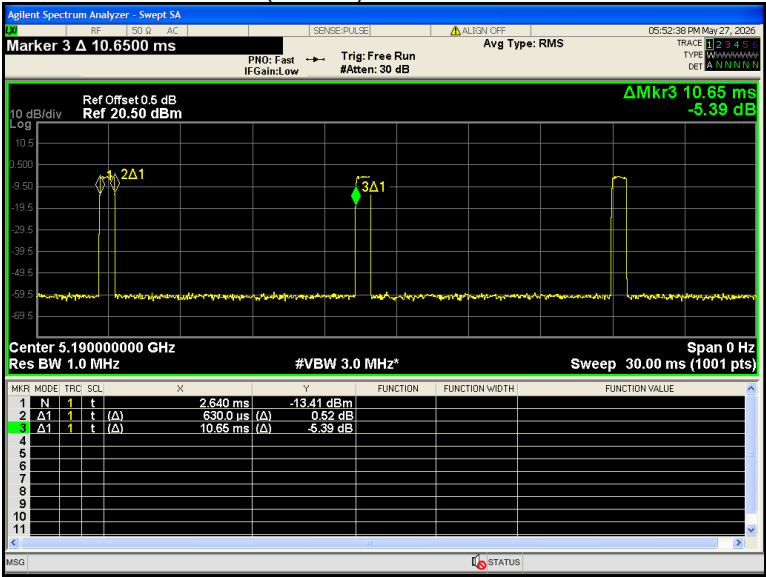
802.11n(HT40) U-NII-1 Low channel



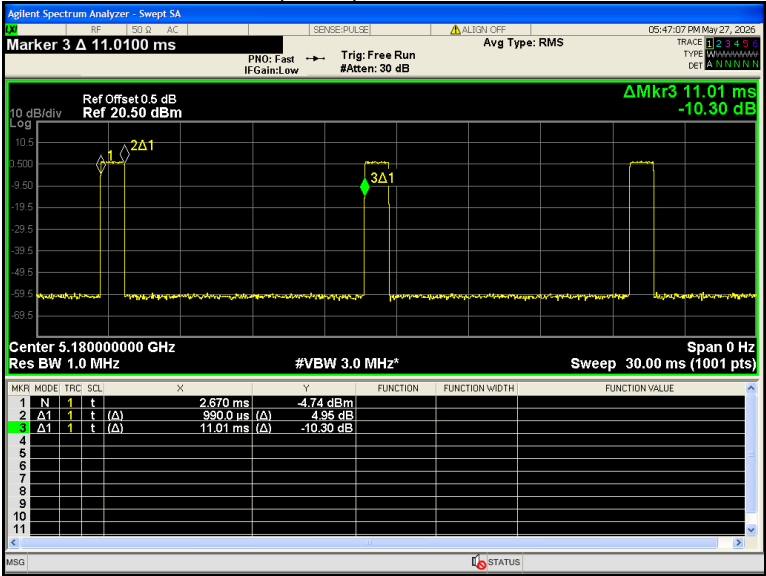
802.11ac(VHT20) U-NII-1 Low channel



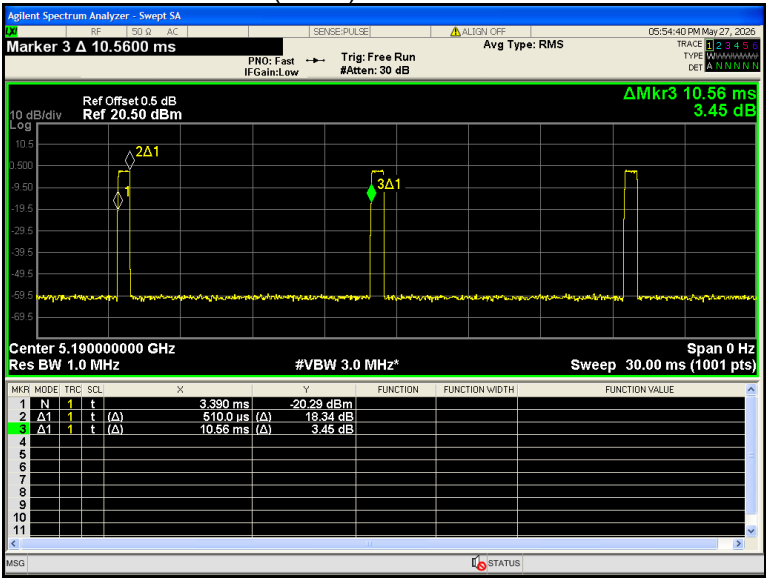
802.11ac(VHT40) U-NII-1 Low channel



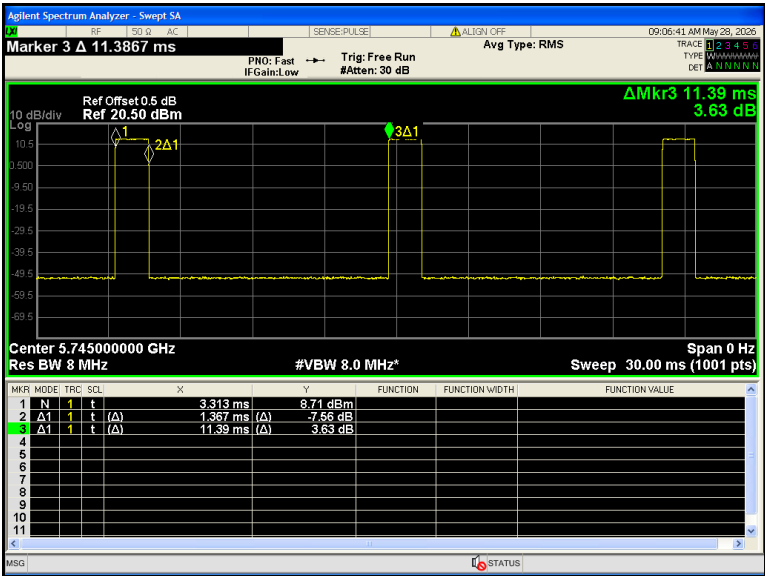
802.11ax(HE20) U-NII-1 Low channel



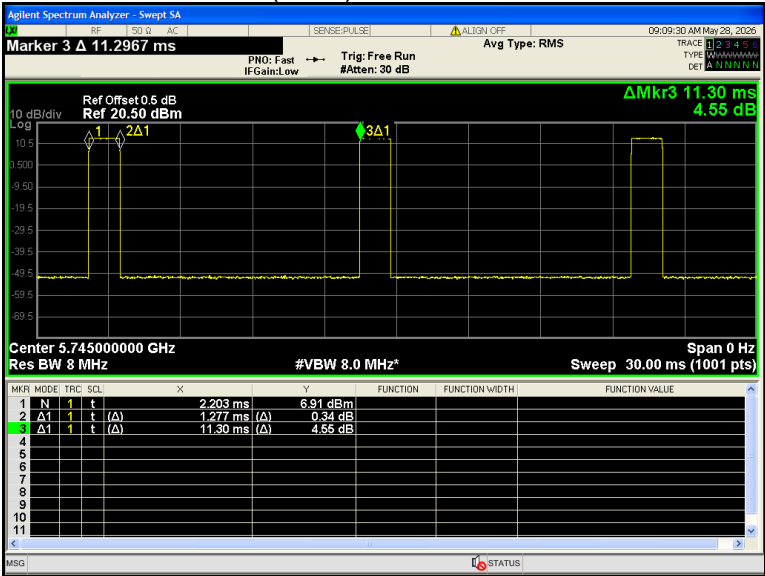
802.11ax(HE40) U-NII-1 Low channel



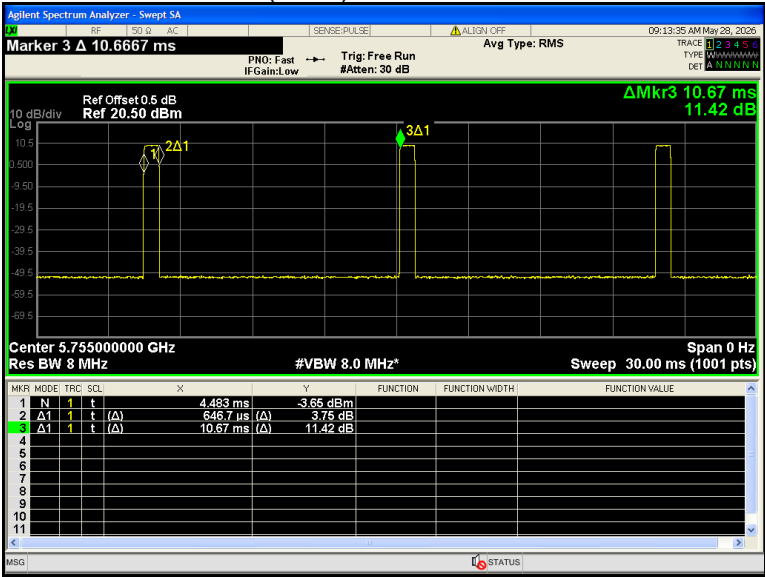
802.11a U-NII-3 Low channel



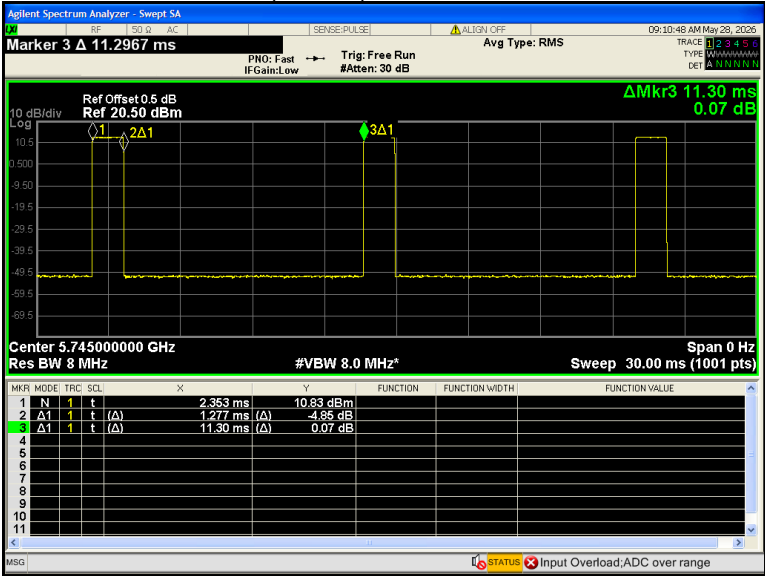
802.11n(HT20) U-NII-3 Low channel



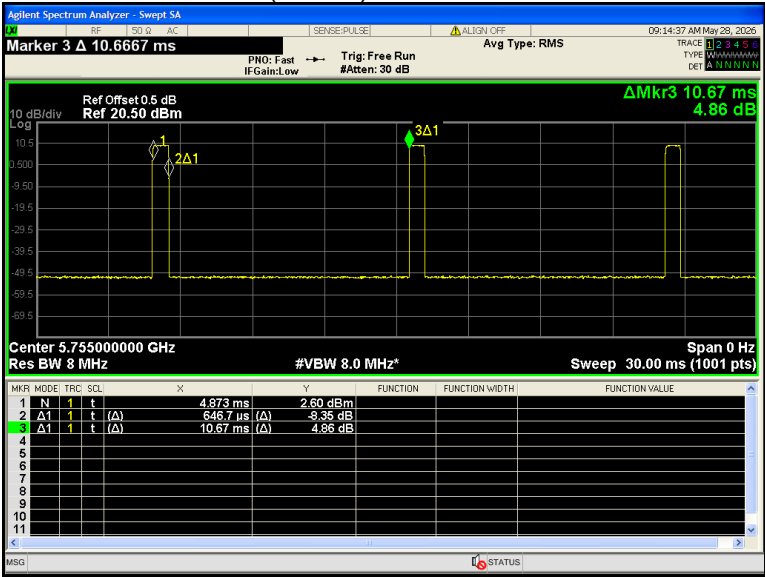
802.11n(HT40) U-NII-3 Low channel



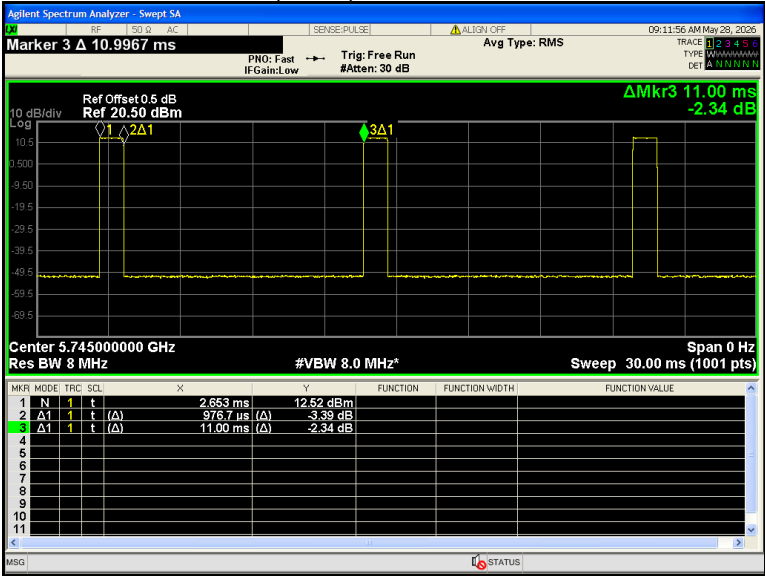
802.11ac(VHT20) U-NII-3 Low channel

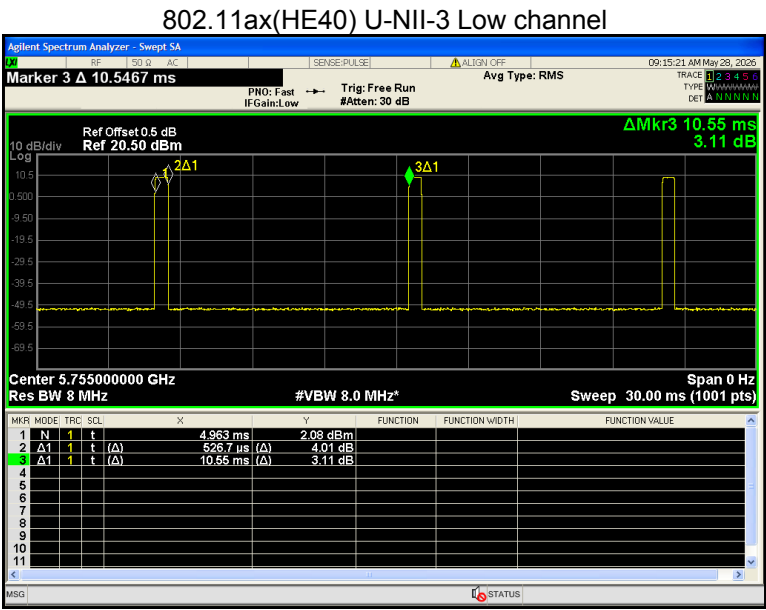


802.11ac(VHT40) U-NII-3 Low channel



802.11ax(HE20) U-NII-3 Low channel





8 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	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

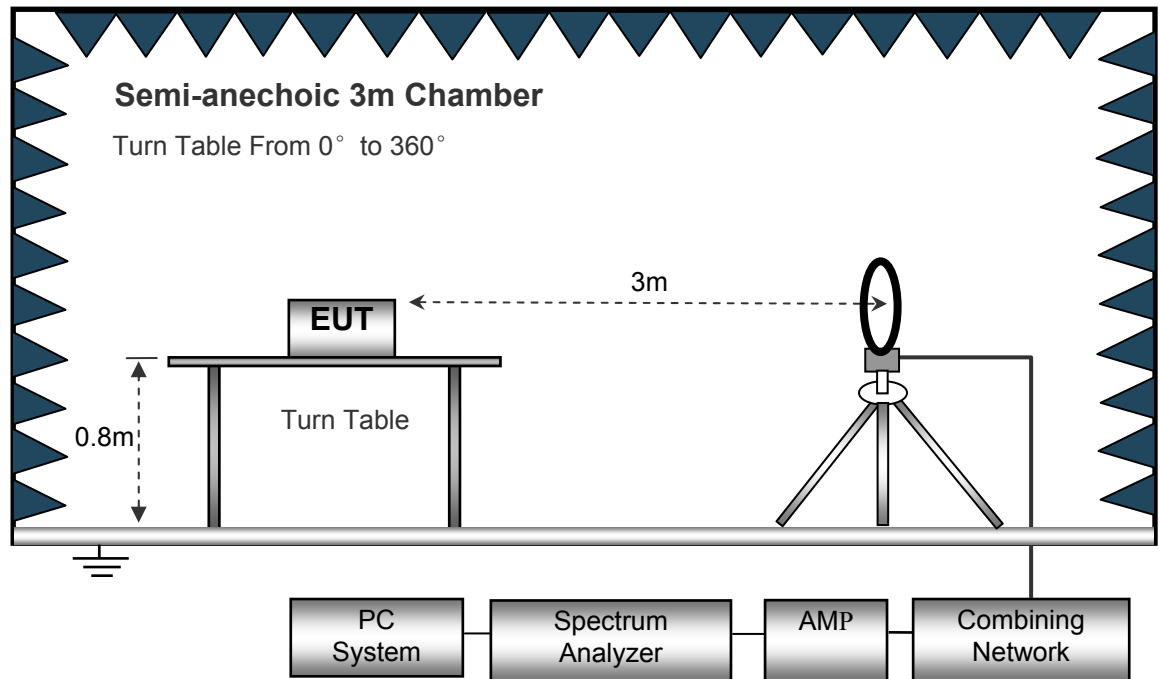
EUT Operation :

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

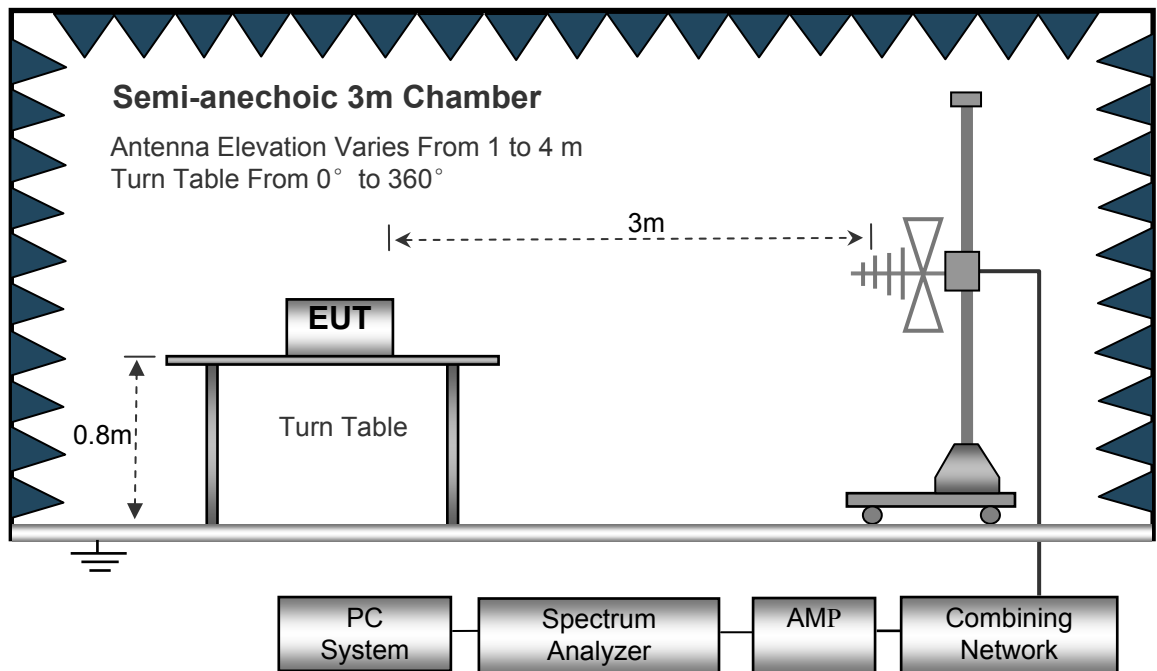
8.2 Test Setup

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

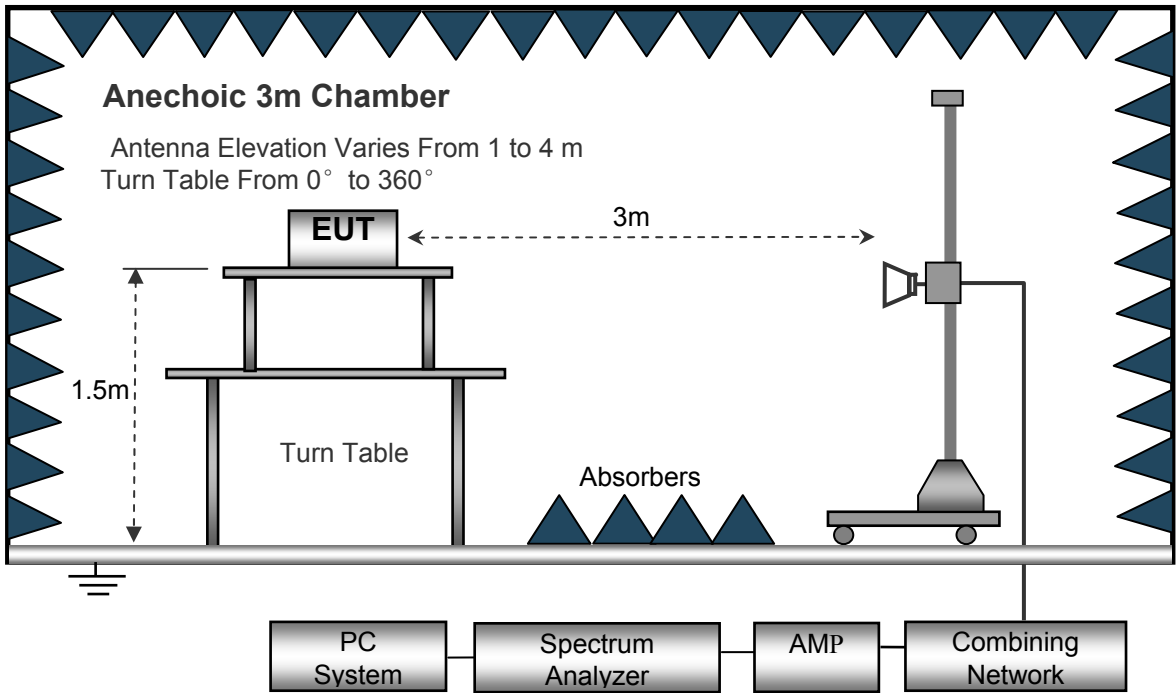
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



8.3 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

8.4 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.

8.5 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:

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

8.6 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									
159.84	43.08	QP	299	1.8	H	-11.62	31.46	43.50	-12.04
159.84	47.36	QP	165	1.3	V	-11.62	35.74	43.50	-7.76
4522.70	54.73	PK	78	1.2	H	-2.03	52.70	74.00	-21.30
4522.70	40.59	Ave	78	1.2	H	-2.03	38.56	54.00	-15.44
5118.73	51.81	PK	341	1.8	H	-1.02	50.79	74.00	-23.21
5118.73	40.27	Ave	341	1.8	H	-1.02	39.25	54.00	-14.75
10360.00	49.76	PK	354	1.1	H	5.33	55.09	74.00	-18.91
10360.00	37.47	Ave	354	1.1	H	5.33	42.80	54.00	-11.20
802.11a U-NII-1 Middle channel 5200MHz									
159.84	42.50	QP	265	1.9	H	-11.62	30.88	43.50	-12.62
159.84	46.67	QP	227	1.6	V	-11.62	35.05	43.50	-8.45
4530.83	53.64	PK	221	1.0	H	-1.94	51.70	74.00	-22.30
4530.83	39.94	Ave	221	1.0	H	-1.94	38.00	54.00	-16.00
5125.02	52.61	PK	141	2.0	H	-1.06	51.55	74.00	-22.45
5125.02	40.68	Ave	141	2.0	H	-1.06	39.62	54.00	-14.38
10400.00	49.46	PK	199	1.1	H	5.21	54.67	74.00	-19.33
10400.00	37.18	Ave	199	1.1	H	5.21	42.39	54.00	-11.61

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									
159.84	41.29	QP	244	2.0	H	-11.62	29.67	43.50	-13.83
159.84	46.60	QP	208	1.6	V	-11.62	34.98	43.50	-8.52
4517.84	53.23	PK	223	1.2	H	-2.24	50.99	74.00	-23.01
4517.84	38.53	Ave	223	1.2	H	-2.24	36.29	54.00	-17.71
5141.04	52.12	PK	36	1.4	H	-1.09	51.03	74.00	-22.97
5141.04	40.97	Ave	36	1.4	H	-1.09	39.88	54.00	-14.12
10480.00	48.58	PK	226	1.8	H	5.14	53.72	74.00	-20.28
10480.00	37.39	Ave	226	1.8	H	5.14	42.53	54.00	-11.47
802.11a U-NII-3 Low Channel 5745MHz									
159.84	41.84	QP	265	1.2	H	-11.62	30.22	43.50	-13.28
159.84	47.24	QP	293	1.2	V	-11.62	35.62	43.50	-7.88
4500.21	53.01	PK	232	1.7	H	-2.06	50.95	74.00	-23.05
4500.21	37.08	Ave	232	1.7	H	-2.06	35.02	54.00	-18.98
5377.17	48.88	PK	223	1.1	H	5.93	54.81	74.00	-19.19
5377.17	36.25	Ave	223	1.1	H	5.93	42.18	54.00	-11.82
11490.00	45.32	PK	139	2.0	H	-1.25	44.07	74.00	-29.93
11490.00	37.24	Ave	139	2.0	H	-1.25	35.99	54.00	-18.01

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-3 middle channel 5785MHz									
159.84	41.05	QP	183	1.4	H	-11.62	29.43	43.50	-14.07
159.84	45.82	QP	329	1.5	V	-11.62	34.20	43.50	-9.30
4531.66	51.52	PK	84	1.4	H	-2.03	49.49	74.00	-24.51
4531.66	35.96	Ave	84	1.4	H	-2.03	33.93	54.00	-20.07
5364.27	48.87	PK	233	1.7	H	5.81	54.68	74.00	-19.32
5364.27	36.34	Ave	233	1.7	H	5.81	42.15	54.00	-11.85
11570.00	46.00	PK	284	1.2	H	-1.22	44.78	74.00	-29.22
11570.00	37.22	Ave	284	1.2	H	-1.22	36.00	54.00	-18.00
802.11a U-NII-3 High channel 5825MHz									
159.84	40.96	QP	241	1.4	H	-11.62	29.34	43.50	-14.16
159.84	44.88	QP	74	1.7	V	-11.62	33.26	43.50	-10.24
4501.21	50.40	PK	10	1.0	H	-1.84	48.56	74.00	-25.44
4501.21	35.35	Ave	10	1.0	H	-1.84	33.51	54.00	-20.49
5359.23	48.30	PK	15	1.5	H	5.84	54.14	74.00	-19.86
5359.23	35.85	Ave	15	1.5	H	5.84	41.69	54.00	-12.31
11650.00	46.07	PK	210	1.2	H	-1.30	44.77	74.00	-29.23
11650.00	39.75	Ave	210	1.2	H	-1.30	38.45	54.00	-15.55

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									
159.84	40.17	QP	303	1.8	H	-11.62	28.55	43.50	-14.95
159.84	44.71	QP	114	1.5	V	-11.62	33.09	43.50	-10.41
4526.88	49.36	PK	126	1.9	H	-2.14	47.22	74.00	-26.78
4526.88	33.87	Ave	126	1.9	H	-2.14	31.73	54.00	-22.27
5144.20	46.09	PK	278	1.5	H	-1.06	45.03	74.00	-28.97
5144.20	32.32	Ave	278	1.5	H	-1.06	31.26	54.00	-22.74
10360.00	48.88	PK	331	1.7	H	5.33	54.21	74.00	-19.79
10360.00	35.94	Ave	331	1.7	H	5.33	41.27	54.00	-12.73
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
159.84	39.71	QP	6	1.2	H	-11.62	28.09	43.50	-15.41
159.84	44.19	QP	8	1.5	V	-11.62	32.57	43.50	-10.93
4522.16	48.91	PK	132	1.1	H	-2.12	46.79	74.00	-27.21
4522.16	33.19	Ave	132	1.1	H	-2.12	31.07	54.00	-22.93
5134.89	45.82	PK	304	1.0	H	-1.06	44.76	74.00	-29.24
5134.89	31.96	Ave	304	1.0	H	-1.06	30.90	54.00	-23.10
10400.00	50.08	PK	290	1.4	H	5.21	55.29	74.00	-18.71
10400.00	36.38	Ave	290	1.4	H	5.21	41.59	54.00	-12.41

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									
159.84	41.10	QP	318	1.5	H	-11.62	29.48	43.50	-14.02
159.84	44.80	QP	305	1.6	V	-11.62	33.18	43.50	-10.32
4503.96	49.05	PK	143	1.9	H	-1.96	47.09	74.00	-26.91
4503.96	33.57	Ave	143	1.9	H	-1.96	31.61	54.00	-22.39
5149.75	45.78	PK	307	1.6	H	-1.06	44.72	74.00	-29.28
5149.75	31.51	Ave	307	1.6	H	-1.06	30.45	54.00	-23.55
10480.00	48.53	PK	284	1.3	H	5.14	53.67	74.00	-20.33
10480.00	36.57	Ave	284	1.3	H	5.14	41.71	54.00	-12.29
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
159.84	35.74	QP	276	2.0	H	-11.62	24.12	43.50	-19.38
159.84	41.77	QP	308	1.9	V	-11.62	30.15	43.50	-13.35
4506.49	51.43	PK	112	1.5	H	-2.06	49.37	74.00	-24.63
4506.49	45.14	Ave	112	1.5	H	-2.06	43.08	54.00	-10.92
5378.89	52.85	PK	337	1.3	H	5.93	58.78	74.00	-15.22
5378.89	35.96	Ave	337	1.3	H	5.93	41.89	54.00	-12.11
11490.00	46.12	PK	178	1.4	H	-1.25	44.87	74.00	-29.13
11490.00	39.50	Ave	178	1.4	H	-1.25	38.25	54.00	-15.75

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									
159.84	38.26	QP	299	1.8	H	-11.62	26.64	43.50	-16.86
159.84	44.16	QP	112	1.2	V	-11.62	32.54	43.50	-10.96
4514.26	51.44	PK	241	1.1	H	-2.03	49.41	74.00	-24.59
4514.26	45.77	Ave	241	1.1	H	-2.03	43.74	54.00	-10.26
5360.24	58.70	PK	301	1.9	H	5.81	64.51	74.00	-9.49
5360.24	38.91	Ave	301	1.9	H	5.81	44.72	54.00	-9.28
11570.00	46.98	PK	325	1.2	H	-1.22	45.76	74.00	-28.24
11570.00	38.14	Ave	325	1.2	H	-1.22	36.92	54.00	-17.08
802.11n(HT20) U-NII-3 High channel 5825MHz									
159.84	39.55	QP	258	1.5	H	-11.62	27.93	43.50	-15.57
159.84	43.39	QP	336	1.9	V	-11.62	31.77	43.50	-11.73
4527.21	52.01	PK	193	1.3	H	-1.84	50.17	74.00	-23.83
4527.21	45.35	Ave	193	1.3	H	-1.84	43.51	54.00	-10.49
5375.13	58.05	PK	339	1.5	H	5.84	63.89	74.00	-10.11
5375.13	41.65	Ave	339	1.5	H	5.84	47.49	54.00	-6.51
11650.00	46.16	PK	280	1.2	H	-1.30	44.86	74.00	-29.14
11650.00	38.83	Ave	280	1.2	H	-1.30	37.53	54.00	-16.47

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)
802.11ac(VHT20) U-NII-1 Low Channel 5180MHz									
159.84	39.63	QP	205	1.5	H	-11.62	28.01	43.50	-15.49
159.84	43.68	QP	161	2.0	V	-11.62	32.06	43.50	-11.44
4502.21	45.97	PK	166	1.4	H	-1.86	44.11	74.00	-29.89
4502.21	39.12	Ave	166	1.4	H	-1.86	37.26	54.00	-16.74
5131.47	37.47	PK	102	1.5	H	-1.06	36.41	74.00	-37.59
5131.47	42.14	Ave	102	1.5	H	-1.06	41.08	54.00	-12.92
10360.00	46.13	PK	231	1.1	H	5.33	51.46	74.00	-22.54
10360.00	37.85	Ave	231	1.1	H	5.33	43.18	54.00	-10.82
802.11ac(VHT20) U-NII-1 Middle channel 5200MHz									
159.84	39.77	QP	269	1.9	H	-11.62	28.15	43.50	-15.35
159.84	44.40	QP	309	1.3	V	-11.62	32.78	43.50	-10.72
4527.25	46.73	PK	275	1.1	H	-1.82	44.91	74.00	-29.09
4527.25	39.96	Ave	275	1.1	H	-1.82	38.14	54.00	-15.86
5110.37	37.04	PK	94	1.6	H	-1.06	35.98	74.00	-38.02
5110.37	41.85	Ave	94	1.6	H	-1.06	40.79	54.00	-13.21
10400.00	49.10	PK	117	2.0	H	5.21	54.31	74.00	-19.69
10400.00	37.82	Ave	117	2.0	H	5.21	43.03	54.00	-10.97

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)
802.11ac(VHT20) U-NII-1 High channel 5240MHz									
159.84	39.90	QP	230	1.8	H	-11.62	28.28	43.50	-15.22
159.84	44.59	QP	147	1.5	V	-11.62	32.97	43.50	-10.53
4508.71	45.83	PK	186	1.5	H	-1.81	44.02	74.00	-29.98
4508.71	39.08	Ave	186	1.5	H	-1.81	37.27	54.00	-16.73
5131.85	38.62	PK	160	1.5	H	-1.06	37.56	74.00	-36.44
5131.85	41.19	Ave	160	1.5	H	-1.06	40.13	54.00	-13.87
10480.00	49.28	PK	75	1.6	H	5.14	54.42	74.00	-19.58
10480.00	36.77	Ave	75	1.6	H	5.14	41.91	54.00	-12.09
802.11ac(VHT20) U-NII-3 Low Channel 5745MHz									
159.84	38.47	QP	224	1.1	H	-11.62	26.85	43.50	-16.65
159.84	43.67	QP	139	1.1	V	-11.62	32.05	43.50	-11.45
4503.56	42.95	PK	183	1.6	H	-1.92	41.03	74.00	-32.97
4503.56	36.15	Ave	183	1.6	H	-1.92	34.23	54.00	-19.77
5360.34	48.00	PK	85	1.4	H	5.93	53.93	74.00	-20.07
5360.34	35.14	Ave	85	1.4	H	5.93	41.07	54.00	-12.93
11490.00	46.90	PK	209	1.0	H	-1.03	45.87	74.00	-28.13
11490.00	39.58	Ave	209	1.0	H	-1.03	38.55	54.00	-15.45

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)
802.11ac(VHT20) U-NII-3 middle channel 5785MHz									
159.84	40.27	QP	36	1.6	H	-11.62	28.65	43.50	-14.85
159.84	46.53	QP	66	1.8	V	-11.62	34.91	43.50	-8.59
4505.52	43.86	PK	146	1.2	H	-1.97	41.89	74.00	-32.11
4505.52	37.76	Ave	146	1.2	H	-1.97	35.79	54.00	-18.21
5380.33	50.07	PK	72	1.2	H	5.81	55.88	74.00	-18.12
5380.33	38.16	Ave	72	1.2	H	5.81	43.97	54.00	-10.03
11570.00	45.74	PK	75	1.3	H	-1.05	44.69	74.00	-29.31
11570.00	39.54	Ave	75	1.3	H	-1.05	38.49	54.00	-15.51
802.11ac(VHT20) U-NII-3 High channel 5825MHz									
159.84	39.90	QP	37	1.7	H	-11.62	28.28	43.50	-15.22
159.84	42.04	QP	114	1.3	V	-11.62	30.42	43.50	-13.08
4537.44	42.92	PK	267	1.3	H	-1.88	41.04	74.00	-32.96
4537.44	35.05	Ave	267	1.3	H	-1.88	33.17	54.00	-20.83
5352.59	50.58	PK	342	1.4	H	5.84	56.42	74.00	-17.58
5352.59	37.07	Ave	342	1.4	H	5.84	42.91	54.00	-11.09
11650.00	45.47	PK	37	1.7	H	-1.06	44.41	74.00	-29.59
11650.00	39.43	Ave	37	1.7	H	-1.06	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)
802.11ax(HE20) U-NII-1 Low Channel 5180MHz									
159.84	38.86	QP	292	1.4	H	-11.62	27.24	43.50	-16.26
159.84	42.05	QP	9	1.8	V	-11.62	30.43	43.50	-13.07
4539.17	50.13	PK	282	1.5	H	-2.14	47.99	74.00	-26.01
4539.17	35.97	Ave	282	1.5	H	-2.14	33.83	54.00	-20.17
5123.57	46.86	PK	287	1.4	H	-1.06	45.80	74.00	-28.20
5123.57	31.45	Ave	287	1.4	H	-1.06	30.39	54.00	-23.61
10360.00	48.48	PK	137	1.8	H	5.33	53.81	74.00	-20.19
10360.00	36.80	Ave	137	1.8	H	5.33	42.13	54.00	-11.87
802.11ax(HE20) U-NII-1 Middle channel 5200MHz									
159.84	38.42	QP	197	1.3	H	-11.62	26.80	43.50	-16.70
159.84	40.89	QP	16	1.5	V	-11.62	29.27	43.50	-14.23
4514.77	49.38	PK	208	1.3	H	-2.12	47.26	74.00	-26.74
4514.77	35.45	Ave	208	1.3	H	-2.12	33.33	54.00	-20.67
5143.68	46.15	PK	315	1.9	H	-1.06	45.09	74.00	-28.91
5143.68	32.50	Ave	315	1.9	H	-1.06	31.44	54.00	-22.56
10400.00	49.31	PK	250	1.3	H	5.21	54.52	74.00	-19.48
10400.00	36.51	Ave	250	1.3	H	5.21	41.72	54.00	-12.28

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)
802.11ax(HE20) U-NII-1 High channel 5240MHz									
159.84	37.41	QP	334	1.6	H	-11.62	25.79	43.50	-17.71
159.84	44.40	QP	19	1.8	V	-11.62	32.78	43.50	-10.72
4514.42	52.22	PK	26	1.9	H	-1.96	50.26	74.00	-23.74
4514.42	32.50	Ave	26	1.9	H	-1.96	30.54	54.00	-23.46
5142.55	45.62	PK	35	1.1	H	-1.06	44.56	74.00	-29.44
5142.55	35.87	Ave	35	1.1	H	-1.06	34.81	54.00	-19.19
10480.00	51.40	PK	254	1.1	H	5.14	56.54	74.00	-17.46
10480.00	36.62	Ave	254	1.1	H	5.14	41.76	54.00	-12.24
802.11ax(HE20) U-NII-3 Low Channel 5745MHz									
159.84	38.81	QP	213	1.9	H	-11.62	27.19	43.50	-16.31
159.84	48.21	QP	288	1.8	V	-11.62	36.59	43.50	-6.91
4500.08	44.88	PK	279	1.5	H	-1.92	42.96	74.00	-31.04
4500.08	36.70	Ave	279	1.5	H	-1.92	34.78	54.00	-19.22
5370.42	47.10	PK	256	1.2	H	5.93	53.03	74.00	-20.97
5370.42	35.21	Ave	256	1.2	H	5.93	41.14	54.00	-12.86
11490.00	45.82	PK	40	1.5	H	-1.03	44.79	74.00	-29.21
11490.00	38.52	Ave	40	1.5	H	-1.03	37.49	54.00	-16.51

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)
802.11ax(HE20) U-NII-3 middle channel 5785MHz									
159.84	39.56	QP	67	1.8	H	-11.62	27.94	43.50	-15.56
159.84	47.61	QP	75	1.3	V	-11.62	35.99	43.50	-7.51
4530.85	43.93	PK	121	1.2	H	-1.97	41.96	74.00	-32.04
4530.85	37.34	Ave	121	1.2	H	-1.97	35.37	54.00	-18.63
5377.13	48.31	PK	108	1.6	H	5.81	54.12	74.00	-19.88
5377.13	36.70	Ave	108	1.6	H	5.81	42.51	54.00	-11.49
11570.00	45.48	PK	149	1.8	H	-1.05	44.43	74.00	-29.57
11570.00	37.82	Ave	149	1.8	H	-1.05	36.77	54.00	-17.23
802.11ax(HE20) U-NII-3 High channel 5825MHz									
159.84	38.97	QP	344	1.6	H	-11.62	27.35	43.50	-16.15
159.84	47.11	QP	264	1.2	V	-11.62	35.49	43.50	-8.01
4529.54	44.21	PK	158	1.1	H	-1.88	42.33	74.00	-31.67
4529.54	38.27	Ave	158	1.1	H	-1.88	36.39	54.00	-17.61
5383.25	49.21	PK	52	1.6	H	5.84	55.05	74.00	-18.95
5383.25	37.97	Ave	52	1.6	H	5.84	43.81	54.00	-10.19
11650.00	46.83	PK	313	1.5	H	-1.06	45.77	74.00	-28.23
11650.00	38.85	Ave	313	1.5	H	-1.06	37.79	54.00	-16.21

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									
159.84	42.79	QP	1	2.0	H	-11.62	31.17	43.50	-12.33
159.84	48.29	QP	213	1.2	V	-11.62	36.67	43.50	-6.83
4521.08	52.84	PK	304	1.6	H	-1.89	50.95	74.00	-23.05
4521.08	42.47	Ave	304	1.6	H	-1.89	40.58	54.00	-13.42
5115.79	45.21	PK	266	1.5	H	-1.06	44.15	74.00	-29.85
5115.79	35.76	Ave	266	1.5	H	-1.06	34.70	54.00	-19.30
10380.00	46.86	PK	256	1.6	H	5.26	52.12	74.00	-21.88
10380.00	35.99	Ave	256	1.6	H	5.26	41.25	54.00	-12.75
802.11n(HT40) U-NII-1 High channel 5230MHz									
159.84	42.19	QP	273	1.4	H	-11.62	30.57	43.50	-12.93
159.84	49.07	QP	141	1.2	V	-11.62	37.45	43.50	-6.05
4519.07	51.98	PK	225	1.0	H	-1.94	50.04	74.00	-23.96
4519.07	42.04	Ave	225	1.0	H	-1.94	40.10	54.00	-13.90
5143.62	44.28	PK	278	1.5	H	-1.06	43.22	74.00	-30.78
5143.62	36.60	Ave	278	1.5	H	-1.06	35.54	54.00	-18.46
10460.00	49.15	PK	288	1.2	H	5.28	54.43	74.00	-19.57
10460.00	37.94	Ave	288	1.2	H	5.28	43.22	54.00	-10.78

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									
159.84	41.45	QP	80	1.6	H	-11.62	29.83	43.50	-13.67
159.84	48.16	QP	349	1.2	V	-11.62	36.54	43.50	-6.96
4526.65	50.55	PK	193	1.1	H	-1.96	48.59	74.00	-25.41
4526.65	40.36	Ave	193	1.1	H	-1.96	38.40	54.00	-15.60
5383.55	48.14	PK	163	1.4	H	5.88	54.02	74.00	-19.98
5383.55	36.16	Ave	163	1.4	H	5.88	42.04	54.00	-11.96
11510.00	46.19	PK	165	2.0	H	-1.01	45.18	74.00	-28.82
11510.00	39.77	Ave	165	2.0	H	-1.01	38.76	54.00	-15.24
802.11n(HT40) U-NII-3 High Channel 5795MHz									
159.84	40.76	QP	25	1.4	H	-11.62	29.14	43.50	-14.36
159.84	47.51	QP	195	1.2	V	-11.62	35.89	43.50	-7.61
4511.60	50.07	PK	40	1.7	H	-1.92	48.15	74.00	-25.85
4511.60	40.10	Ave	40	1.7	H	-1.92	38.18	54.00	-15.82
5360.14	49.51	PK	293	1.7	H	5.63	55.14	74.00	-18.86
5360.14	38.03	Ave	293	1.7	H	5.63	43.66	54.00	-10.34
11590.00	45.16	PK	124	1.4	H	-1.04	44.12	74.00	-29.88
11590.00	38.42	Ave	124	1.4	H	-1.04	37.38	54.00	-16.62

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)
802.11ac(VHT40) U-NII-1 Low Channel 5190MHz									
159.84	40.75	QP	276	1.2	H	-11.62	29.13	43.50	-14.37
159.84	48.01	QP	265	2.0	V	-11.62	36.39	43.50	-7.11
4508.07	48.82	PK	235	1.7	H	-1.91	46.91	74.00	-27.09
4508.07	37.24	Ave	235	1.7	H	-1.91	35.33	54.00	-18.67
5117.38	45.71	PK	127	1.2	H	-1.06	44.65	74.00	-29.35
5117.38	38.58	Ave	127	1.2	H	-1.06	37.52	54.00	-16.48
10380.00	47.25	PK	213	2.0	H	5.26	52.51	74.00	-21.49
10380.00	35.05	Ave	213	2.0	H	5.26	40.31	54.00	-13.69
802.11ac(VHT40) U-NII-1 High channel 5230MHz									
159.84	40.18	QP	341	1.6	H	-11.62	28.56	43.50	-14.94
159.84	48.89	QP	238	1.3	V	-11.62	37.27	43.50	-6.23
4530.11	49.69	PK	276	1.2	H	-1.93	47.76	74.00	-26.24
4530.11	37.20	Ave	276	1.2	H	-1.93	35.27	54.00	-18.73
5147.67	45.57	PK	179	1.9	H	-1.06	44.51	74.00	-29.49
5147.67	39.94	Ave	179	1.9	H	-1.06	38.88	54.00	-15.12
10460.00	49.84	PK	16	1.8	H	5.28	55.12	74.00	-18.88
10460.00	38.01	Ave	16	1.8	H	5.28	43.29	54.00	-10.71

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)
802.11ac(VHT40) U-NII-3 Low Channel 5755MHz									
159.84	40.08	QP	293	1.6	H	-11.62	28.46	43.50	-15.04
159.84	47.81	QP	274	1.2	V	-11.62	36.19	43.50	-7.31
4515.88	48.32	PK	346	2.0	H	-1.92	46.40	74.00	-27.60
4515.88	31.36	Ave	346	2.0	H	-1.92	29.44	54.00	-24.56
5377.68	47.97	PK	235	1.9	H	5.88	53.85	74.00	-20.15
5377.68	34.86	Ave	235	1.9	H	5.88	40.74	54.00	-13.26
11510.00	46.02	PK	125	1.0	H	-1.07	44.95	74.00	-29.05
11510.00	39.76	Ave	125	1.0	H	-1.07	38.69	54.00	-15.31
802.11ac(VHT40) U-NII-3 High Channel 5795MHz									
159.84	40.94	QP	136	1.8	H	-11.62	29.32	43.50	-14.18
159.84	48.62	QP	304	1.1	V	-11.62	37.00	43.50	-6.50
4531.79	48.42	PK	68	2.0	H	-1.86	46.56	74.00	-27.44
4531.79	30.98	Ave	68	2.0	H	-1.86	29.12	54.00	-24.88
5367.61	50.43	PK	51	1.5	H	5.63	56.06	74.00	-17.94
5367.61	37.39	Ave	51	1.5	H	5.63	43.02	54.00	-10.98
11590.00	46.62	PK	259	1.2	H	-1.03	45.59	74.00	-28.41
11590.00	39.20	Ave	259	1.2	H	-1.03	38.17	54.00	-15.83

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)
802.11ax(HE40) U-NII-1 Low Channel 5190MHz									
159.84	40.99	QP	320	1.8	H	-11.62	29.37	43.50	-14.13
159.84	47.80	QP	35	1.7	V	-11.62	36.18	43.50	-7.32
4532.49	49.47	PK	120	2.0	H	-1.91	47.56	74.00	-26.44
4532.49	39.47	Ave	120	2.0	H	-1.91	37.56	54.00	-16.44
5125.46	46.09	PK	55	1.8	H	-1.06	45.03	74.00	-28.97
5125.46	36.05	Ave	55	1.8	H	-1.06	34.99	54.00	-19.01
10380.00	47.74	PK	33	1.6	H	5.26	53.00	74.00	-21.00
10380.00	35.73	Ave	33	1.6	H	5.26	40.99	54.00	-13.01
802.11ax(HE40) U-NII-1 High channel 5230MHz									
159.84	41.02	QP	282	1.8	H	-11.62	29.40	43.50	-14.10
159.84	48.46	QP	93	1.6	V	-11.62	36.84	43.50	-6.66
4526.88	50.26	PK	281	1.5	H	-1.93	48.33	74.00	-25.67
4526.88	39.22	Ave	281	1.5	H	-1.93	37.29	54.00	-16.71
5135.23	47.92	PK	166	1.6	H	-1.06	46.86	74.00	-27.14
5135.23	37.56	Ave	166	1.6	H	-1.06	36.50	54.00	-17.50
10460.00	48.66	PK	337	1.6	H	5.28	53.94	74.00	-20.06
10460.00	38.77	Ave	337	1.6	H	5.28	44.05	54.00	-9.95

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)
802.11ax(HE40) U-NII-3 Low Channel 5755MHz									
159.84	40.16	QP	87	1.8	H	-11.62	28.54	43.50	-14.96
159.84	49.27	QP	195	1.8	V	-11.62	37.65	43.50	-5.85
4528.33	47.28	PK	192	1.5	H	-1.92	45.36	74.00	-28.64
4528.33	36.71	Ave	192	1.5	H	-1.92	34.79	54.00	-19.21
5354.86	48.36	PK	358	1.2	H	5.88	54.24	74.00	-19.76
5354.86	35.95	Ave	358	1.2	H	5.88	41.83	54.00	-12.17
11510.00	45.46	PK	154	1.7	H	-1.07	44.39	74.00	-29.61
11510.00	38.65	Ave	154	1.7	H	-1.07	37.58	54.00	-16.42
802.11ax(HE40) U-NII-3 High Channel 5795MHz									
159.84	40.91	QP	135	1.4	H	-11.62	29.29	43.50	-14.21
159.84	48.83	QP	66	1.1	V	-11.62	37.21	43.50	-6.29
4520.48	49.21	PK	17	1.4	H	-1.86	47.35	74.00	-26.65
4520.48	34.70	Ave	17	1.4	H	-1.86	32.84	54.00	-21.16
5374.86	50.36	PK	352	1.6	H	5.63	55.99	74.00	-18.01
5374.86	37.84	Ave	352	1.6	H	5.63	43.47	54.00	-10.53
11590.00	46.48	PK	315	1.4	H	-1.03	45.45	74.00	-28.55
11590.00	37.87	Ave	315	1.4	H	-1.03	36.84	54.00	-17.16

Test Frequency: 12GHz~40GHz

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

9 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

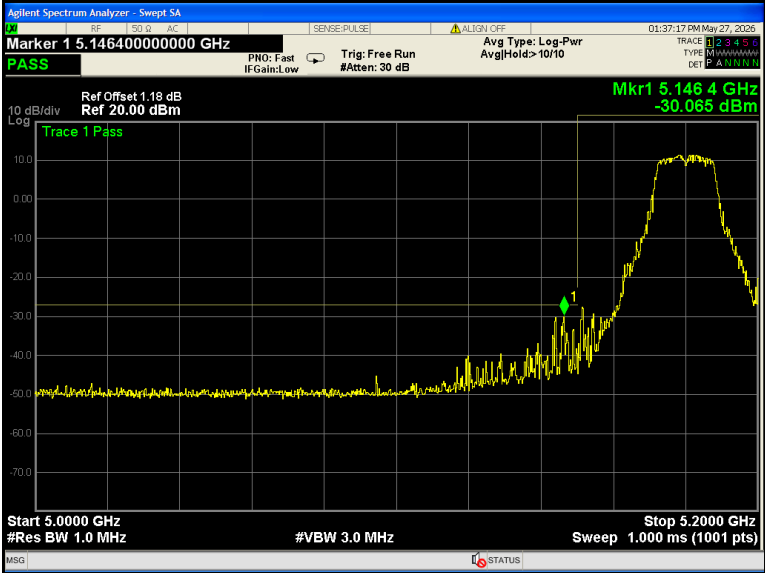
9.1 Test Procedure

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. To convert the conducted power to EIRP as required by FCC 15.407, calculate and apply a Reference Level Offset or Correction factor table in the spectrum analyzer:
 Path Loss: Measure the loss of the cable and any external attenuators set into Reference Level Offset.
 Antenna Gain (G): Determine the maximum directional gain of the antenna in dBi.
 MIMO/Beamforming: If the EUT supports multiple outputs, calculate the Directional Gain according to KDB 662911, set Directional Antenna Gain (dBi) into Correction factor table.
 Follow the procedures specified in KDB Publication 662911 adjusting emission levels measured on individual outputs by $10\log(NANT)$, where NANT is the number of outputs, set $10\log(NANT)$, into Correction factor table.
4. Set RBW to 1000 kHz and VBW of spectrum analyzer to 3000 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
5. 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.
6. Repeat above procedures until all measured frequencies were complete.

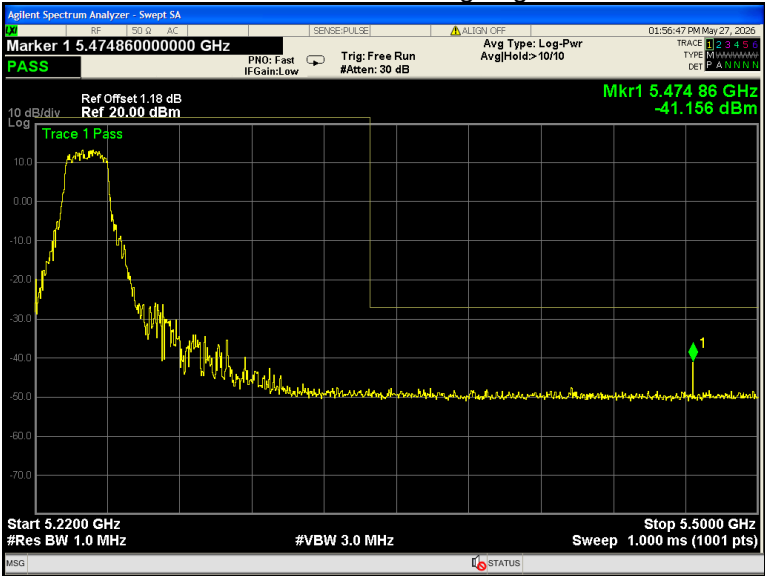
9.2 Test Result

Test result plots shown as follows:

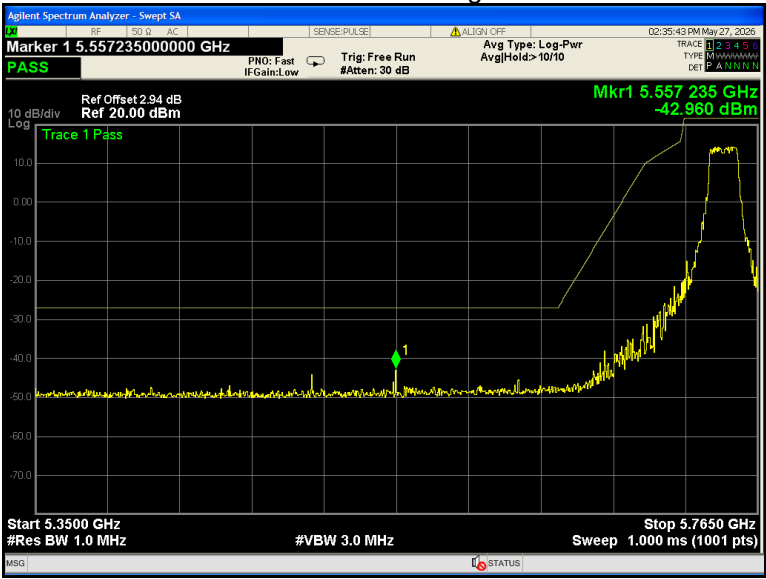
802.11a U-NII-1 Band edge-left side



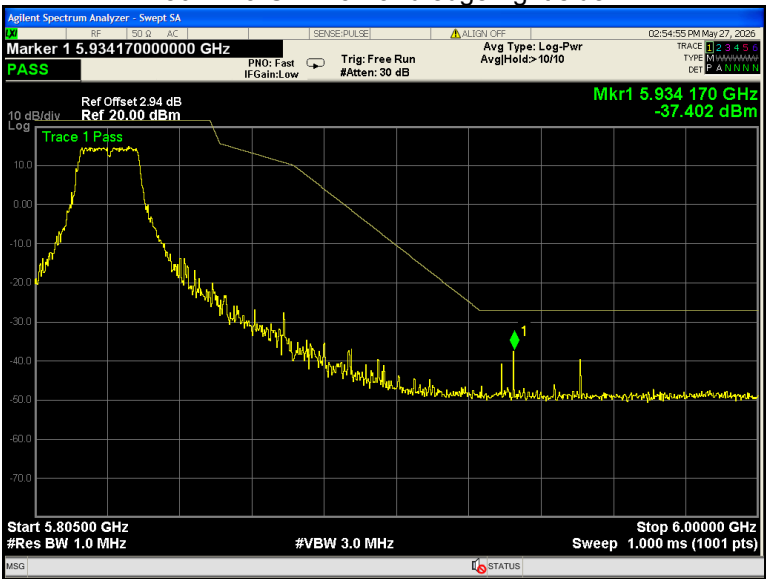
802.11a U-NII-1 Band edge-right side



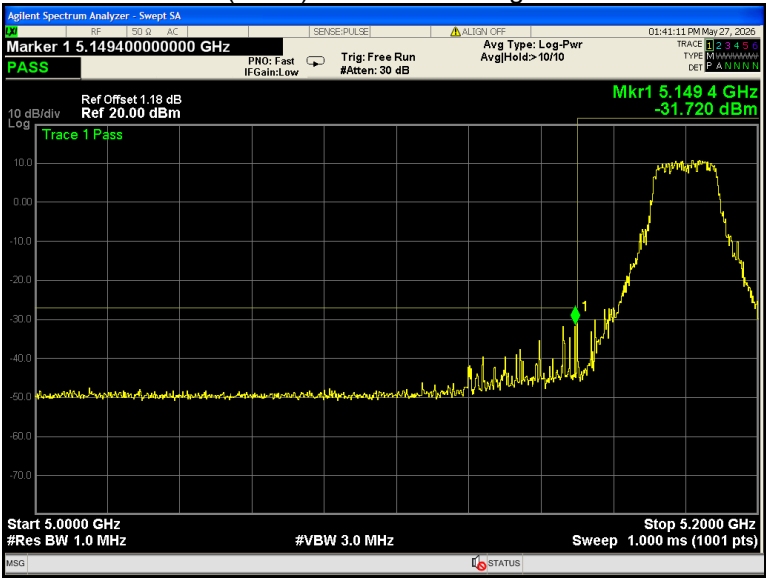
802.11a U-NII-3 Band edge-left side



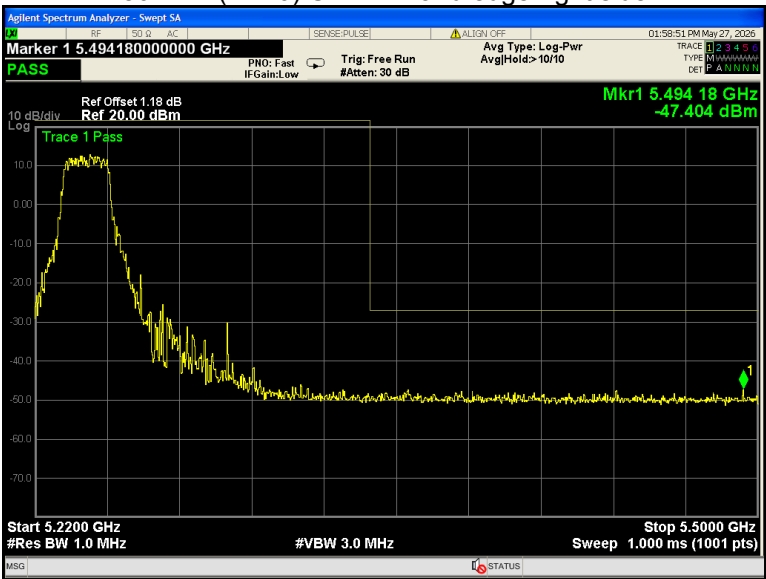
802.11a U-NII-3 Band edge-right side



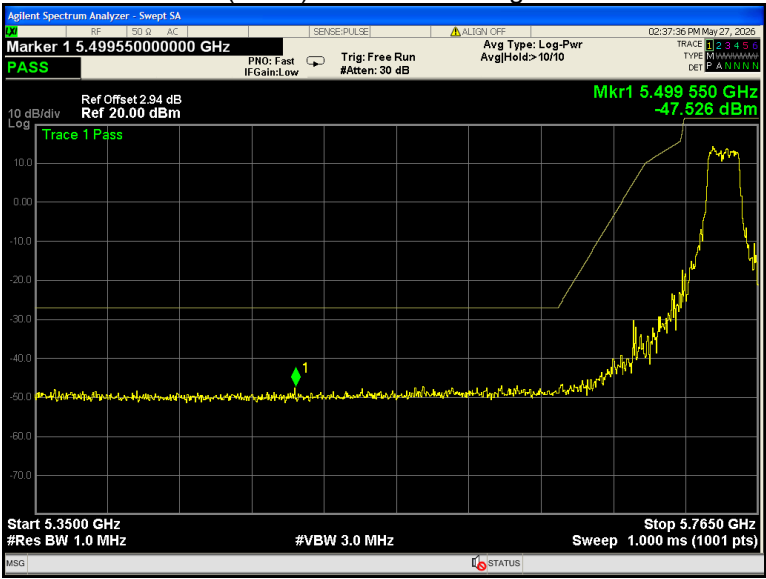
802.11n(HT20) U-NII-1 Band edge-left side



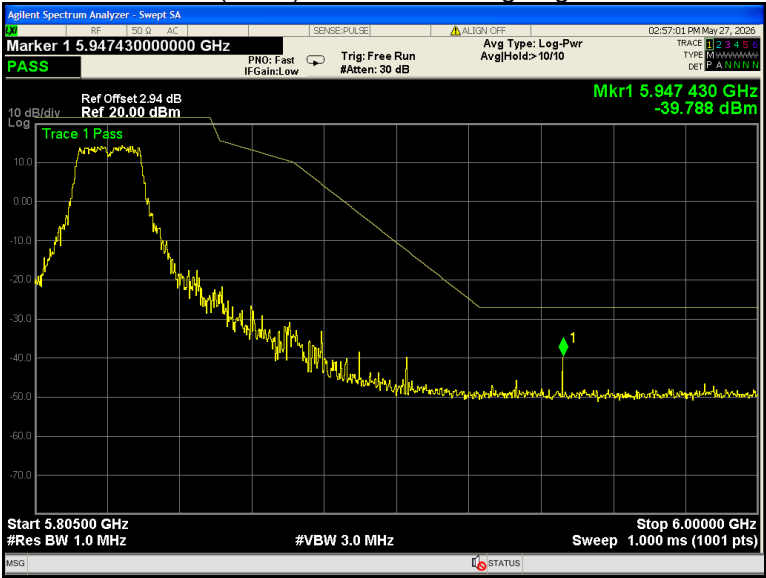
802.11n(HT20) U-NII-1 Band edge-right side



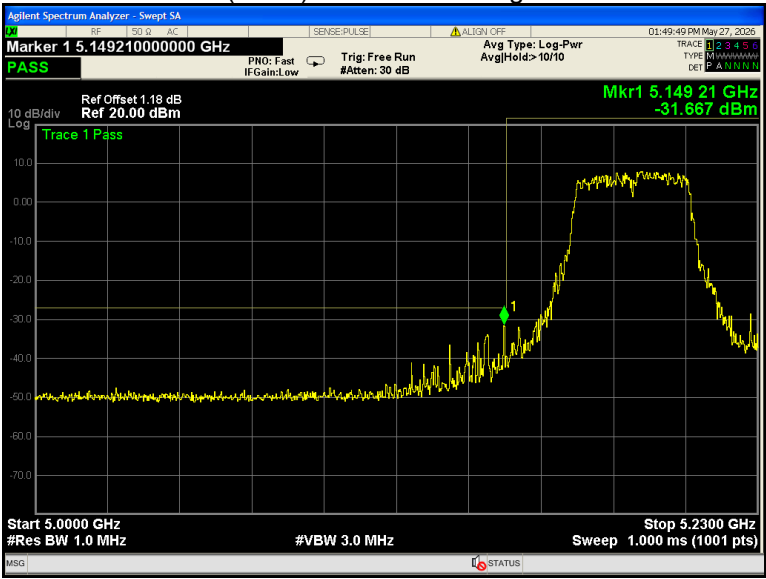
802.11n(HT20) U-NII-3 Band edge-left side



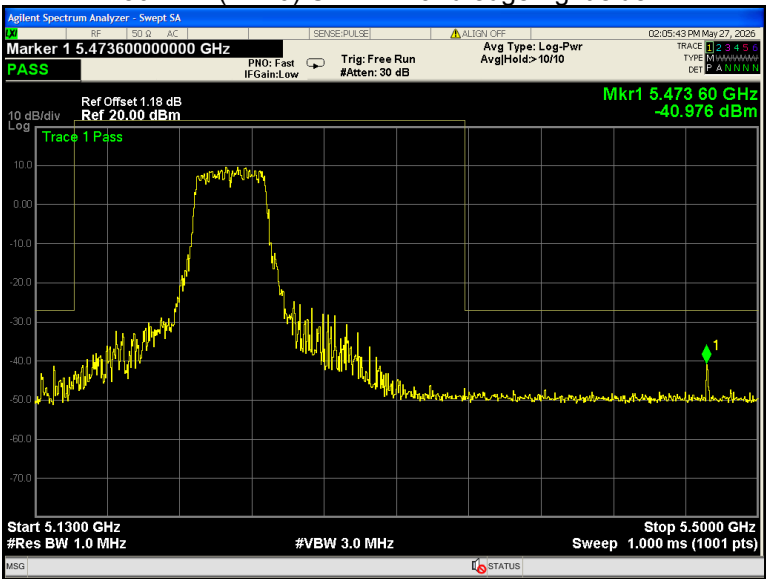
802.11n(HT20) U-NII-3 Band edge-right side



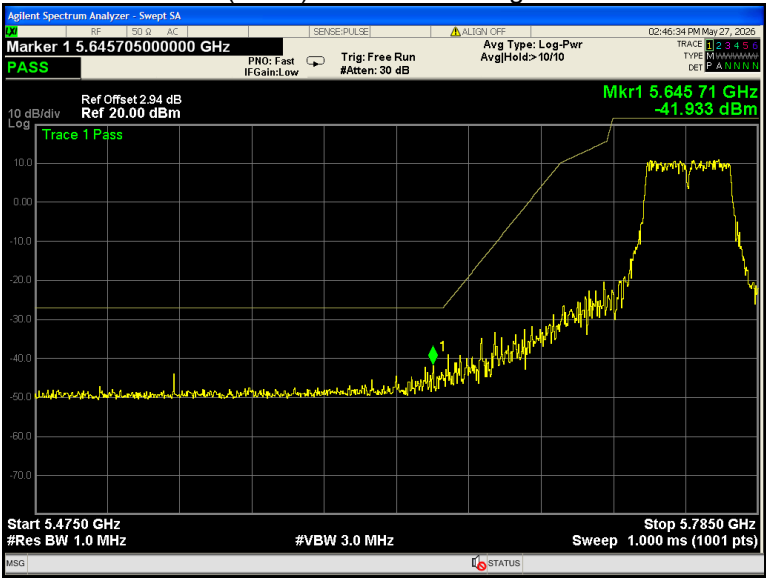
802.11n(HT40) U-NII-1 Band edge-left side



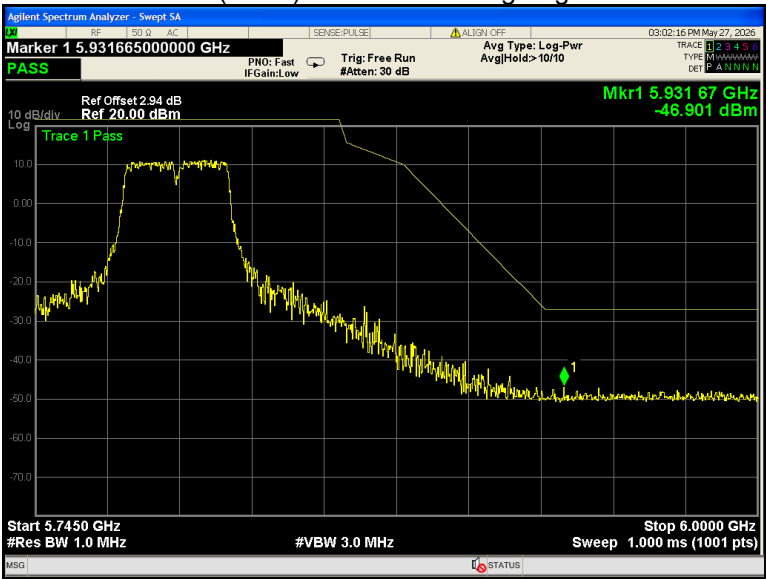
802.11n(HT40) U-NII-1 Band edge-right side



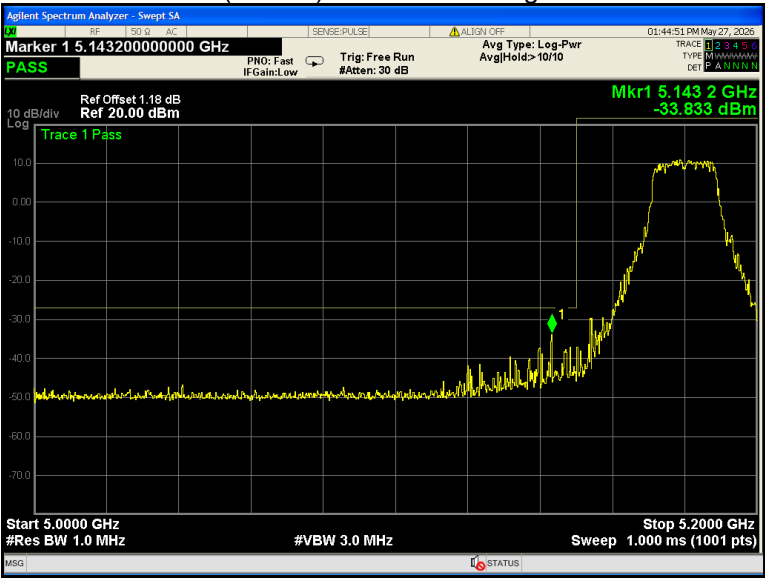
802.11n(HT40) U-NII-3 Band edge-left side



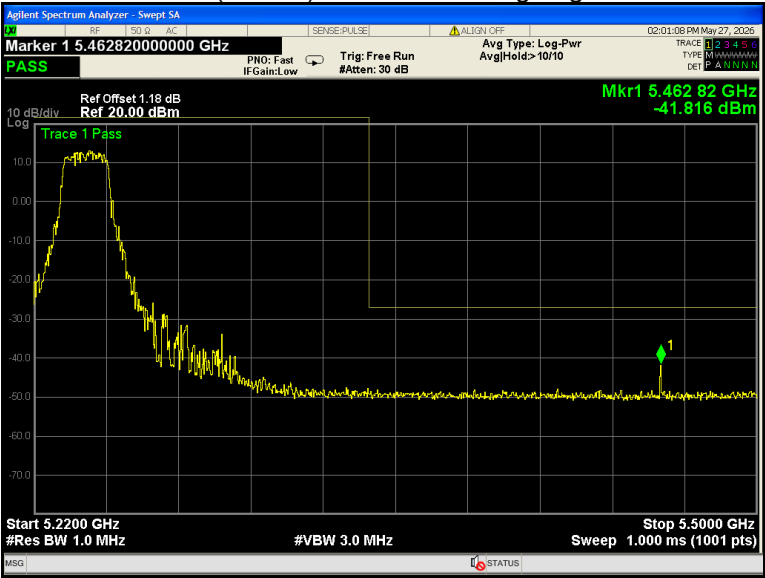
802.11n(HT40) U-NII-3 Band edge-right side



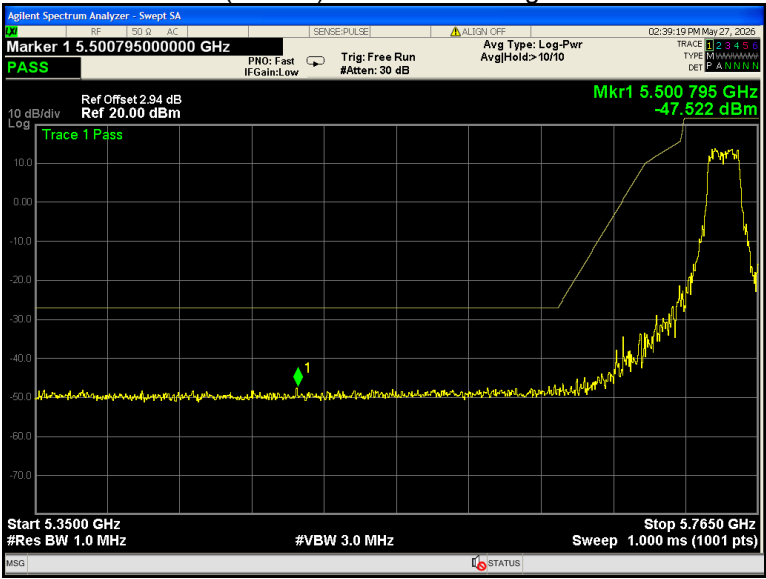
802.11ac(VHT20) U-NII-1 Band edge-left side



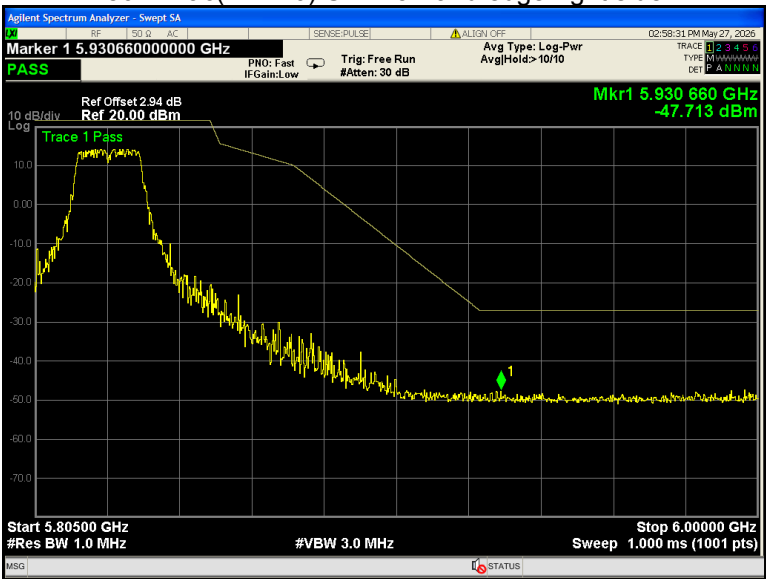
802.11ac(VHT20) U-NII-1 Band edge-right side



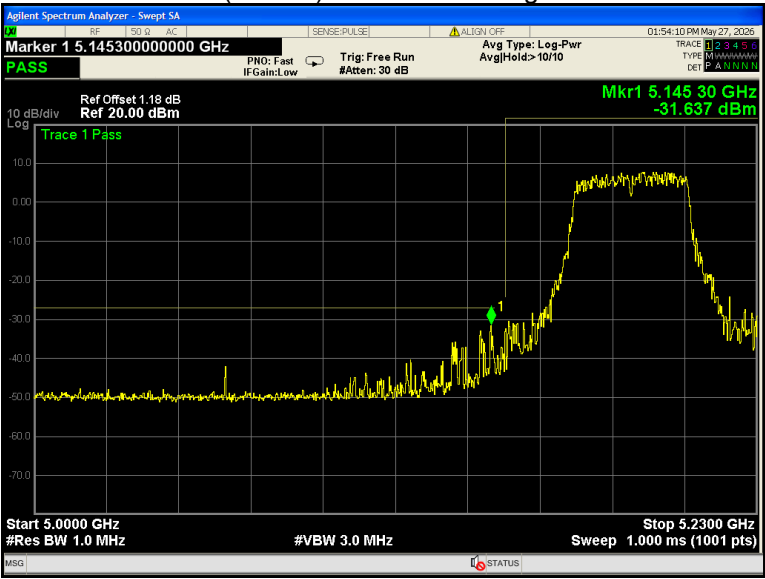
802.11ac(VHT20) U-NII-3 Band edge-left side



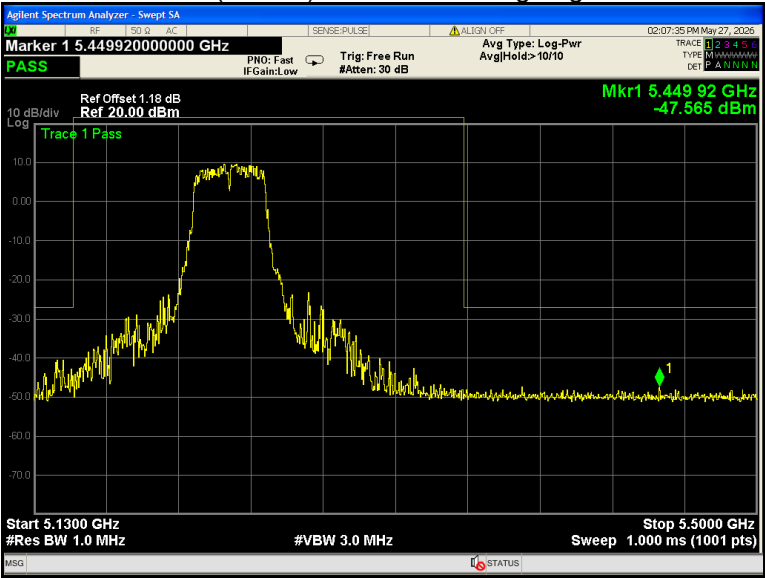
802.11ac(VHT20) U-NII-3 Band edge-right side



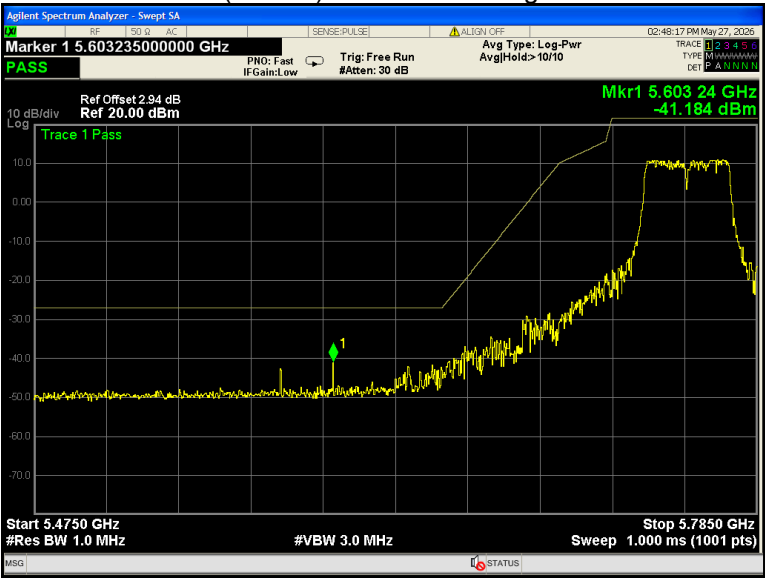
802.11ac(VHT40) U-NII-1 Band edge-left side



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



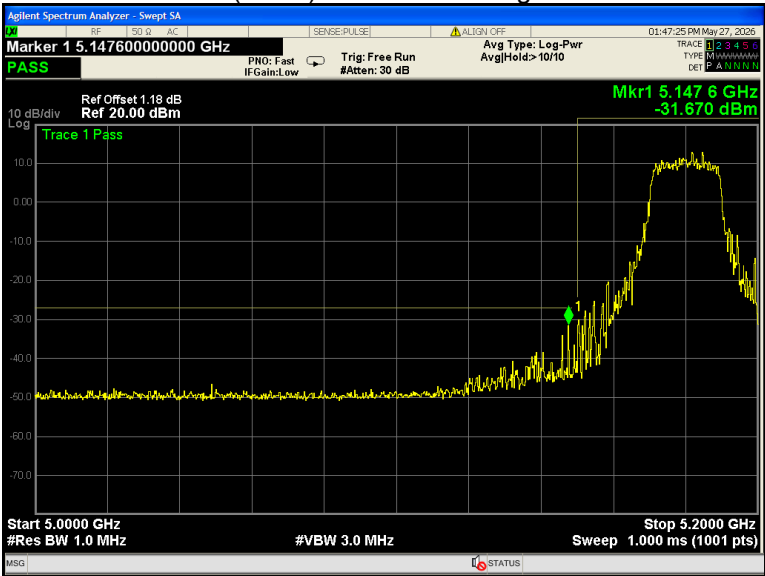
802.11ac(VHT40) U-NII-3 Band edge-left side



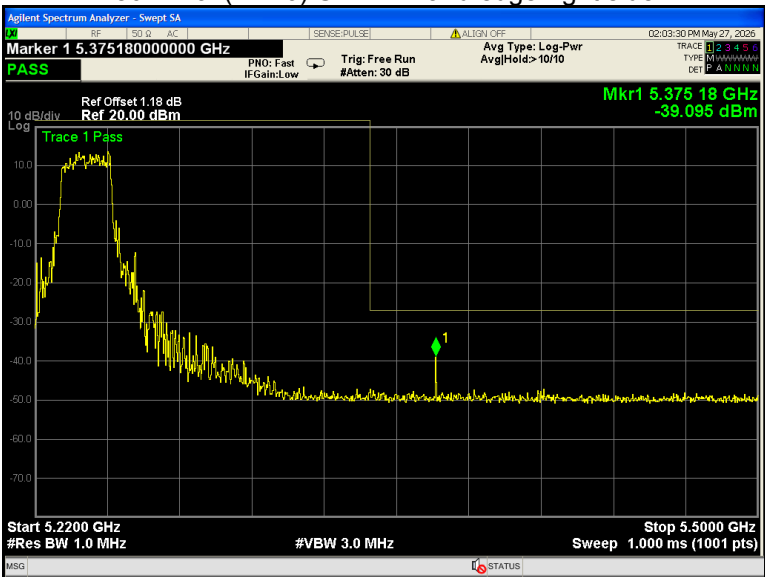
802.11ac(VHT40) U-NII-3 Band edge-right side



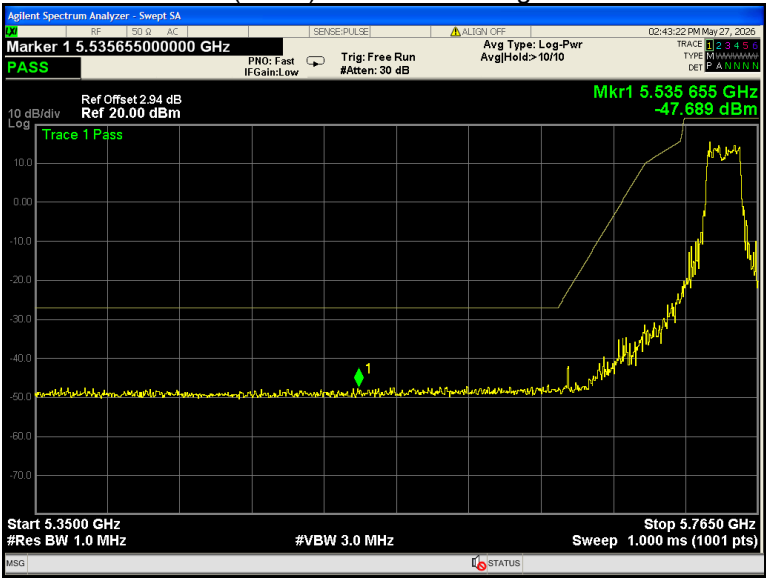
802.11ax(HE20) U-NII-1 Band edge-left side



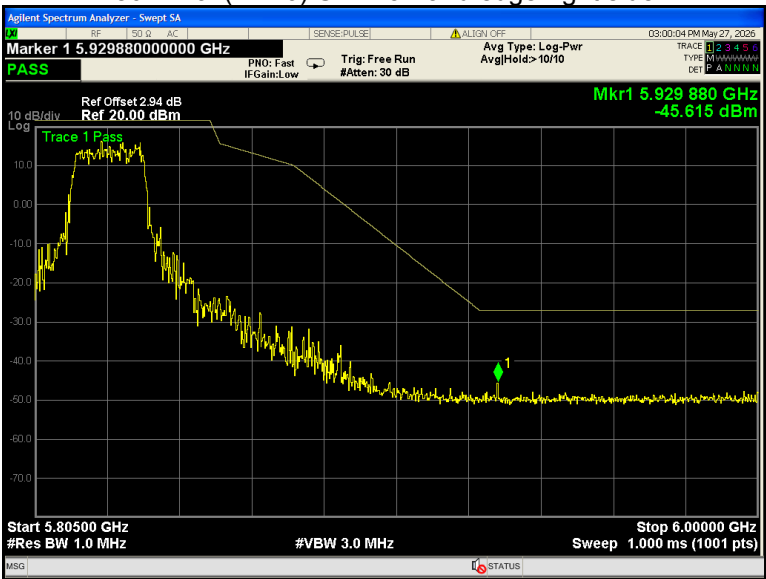
802.11ax(HE20) U-NII-1 Band edge-right side



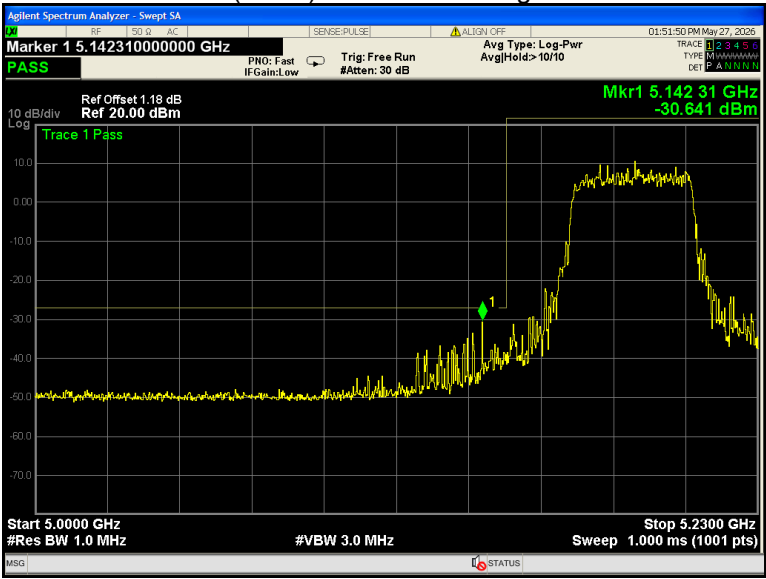
802.11ax(HE20) U-NII-3 Band edge-left side



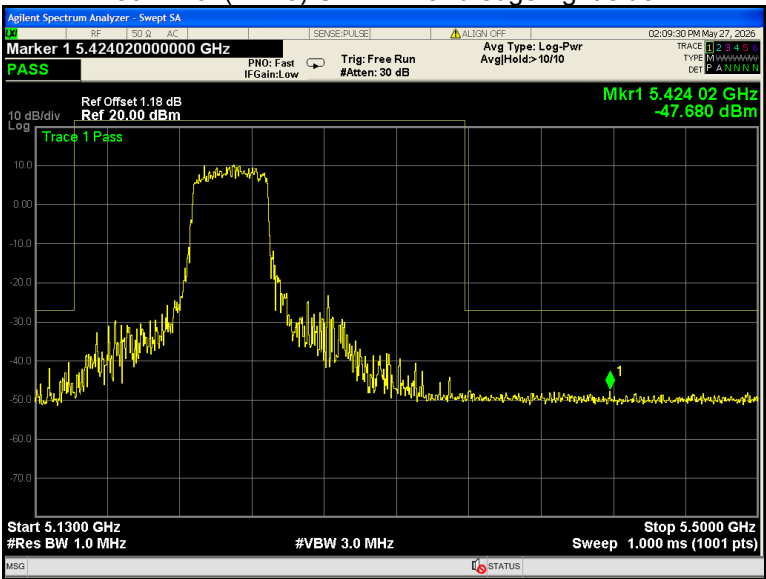
802.11ax(HE20) U-NII-3 Band edge-right side



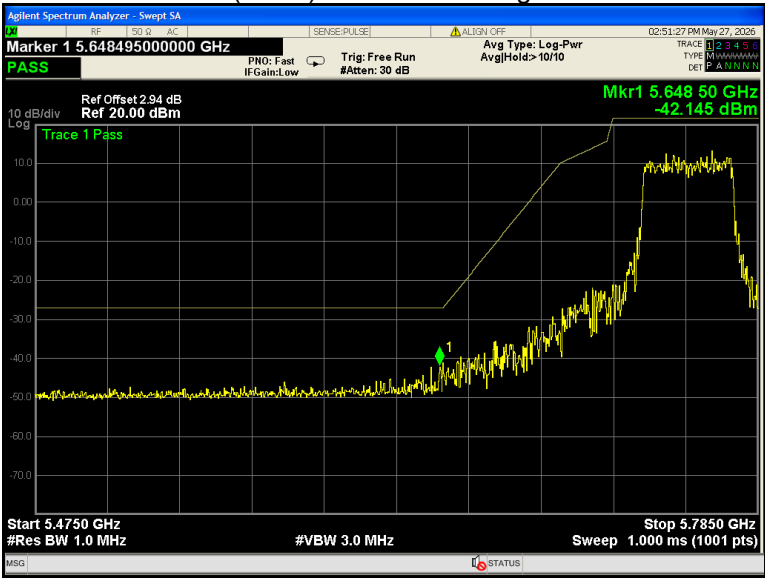
802.11ax(HE40) U-NII-1 Band edge-left side



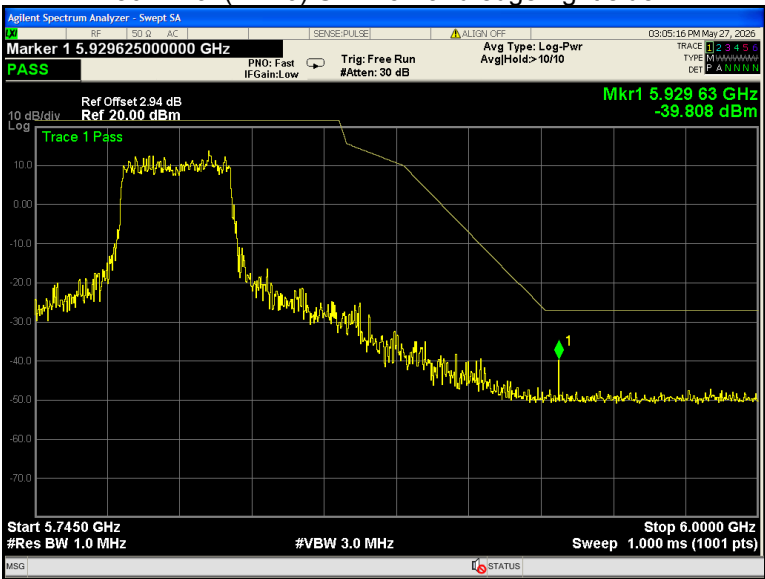
802.11ax(HE40) U-NII-1 Band edge-right side



802.11ax(HE40) U-NII-3 Band edge-left side



802.11ax(HE40) U-NII-3 Band edge-right side



10 6 dB Bandwidth

Test Requirement: FCC 47CFR Part 15 Section 15.407(e)
KDB789033 D02 General U-NII Test Procedures New Rules v02r01

Test Method: Section C
ANSI C63.10-2020

Test Limit: ≥ 500 kHz

Test Result: PASS

10.1 Test Procedure

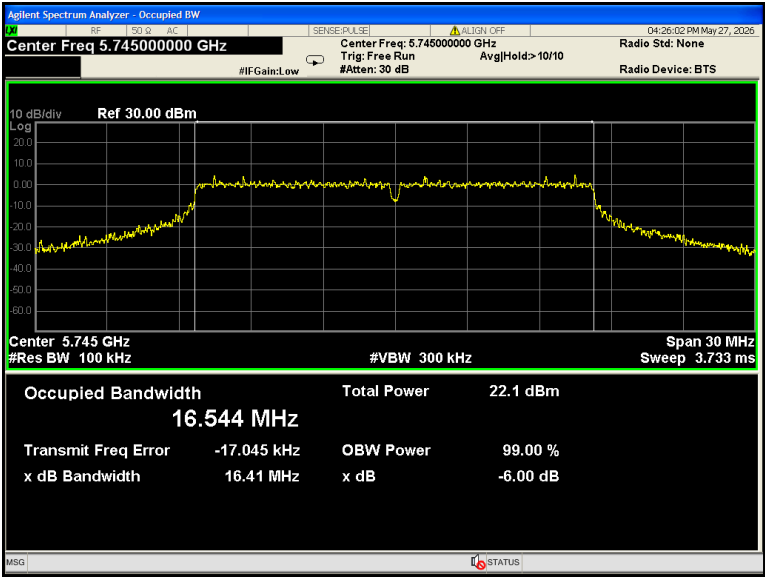
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: 1~5% of the OBW, VBW = 3 times the RBW

10.2 Test Result

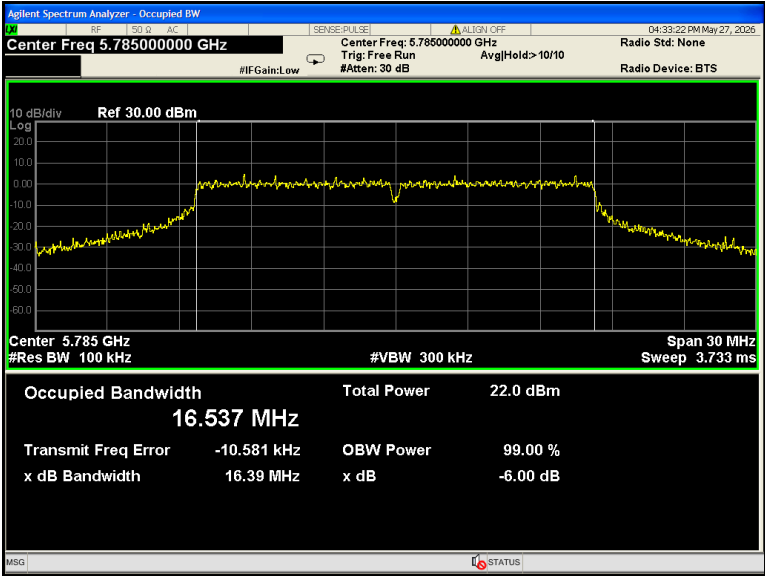
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.41	16.39	16.38
	802.11n(HT20)	17.63	17.60	17.60
	802.11n(HT40)	36.42	/	36.43
	802.11ac(VHT20)	17.59	17.60	17.75
	802.11ac(VHT40)	36.40	/	36.41
	802.11ax(HE20)	19.00	18.92	18.92
	802.11ax(HE40)	37.92	/	37.74

Test result plots shown as follows:

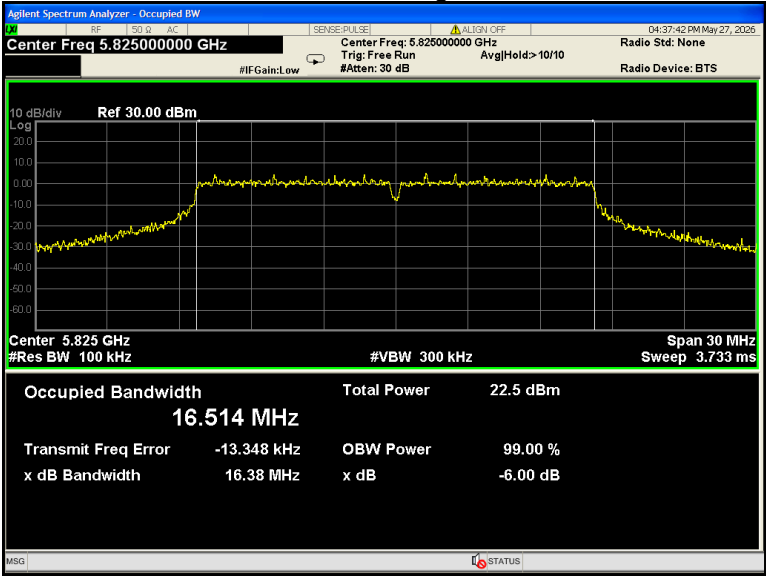
802.11a U-NII-3 Low channel



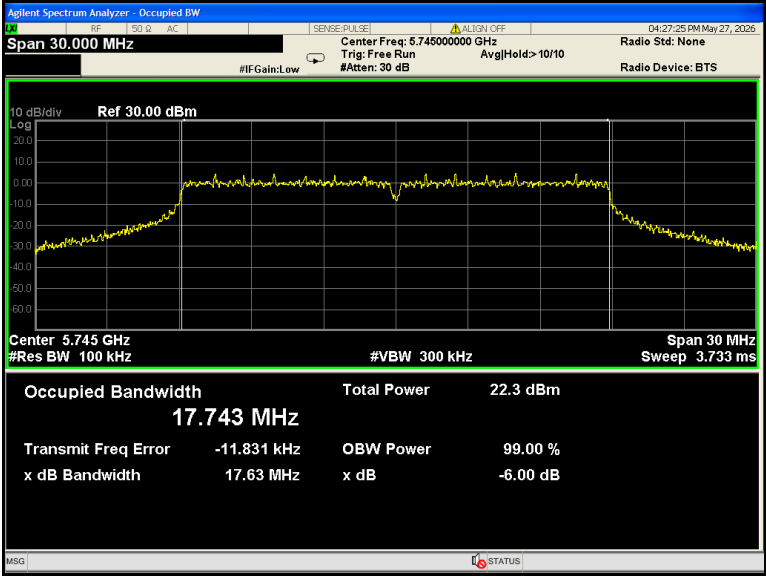
802.11a U-NII-3 Middle channel



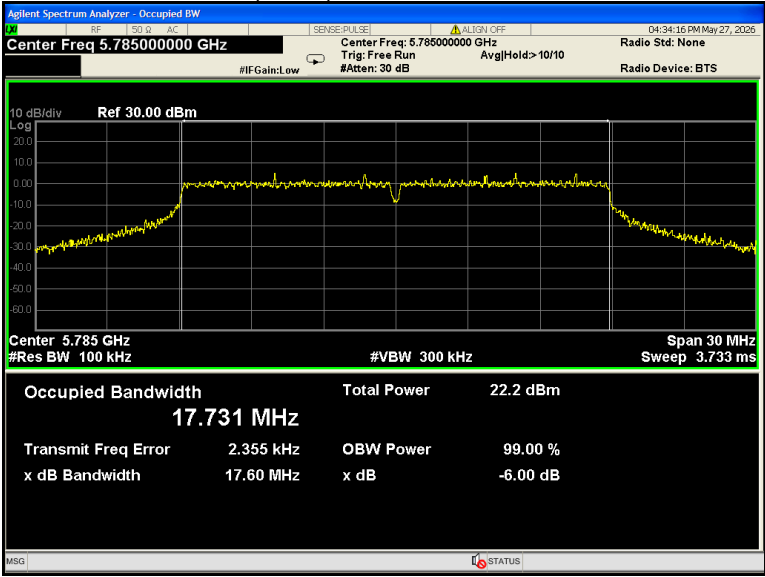
802.11a U-NII-3 High channel



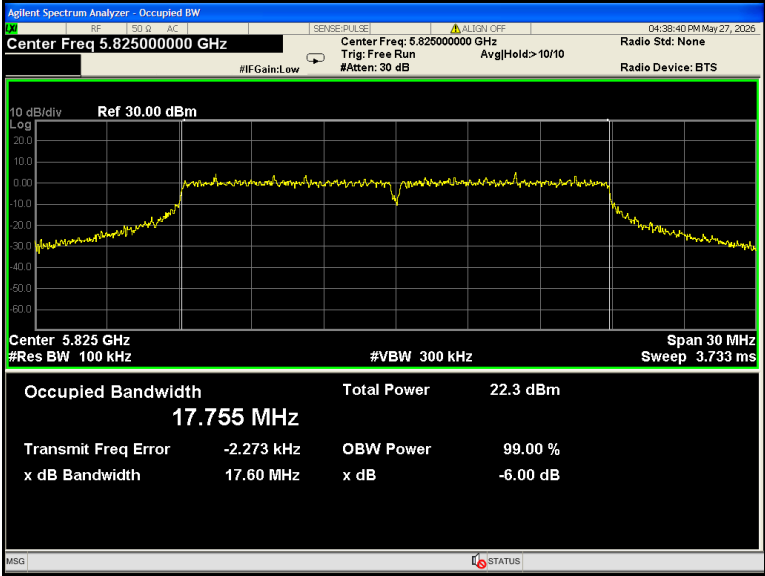
802.11n(HT20) U-NII-3 Low channel



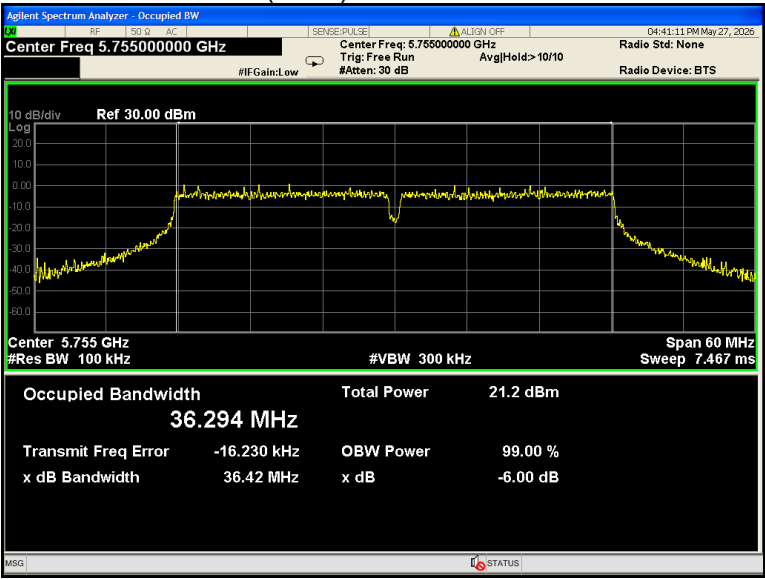
802.11n(HT20) U-NII-3 Middle channel



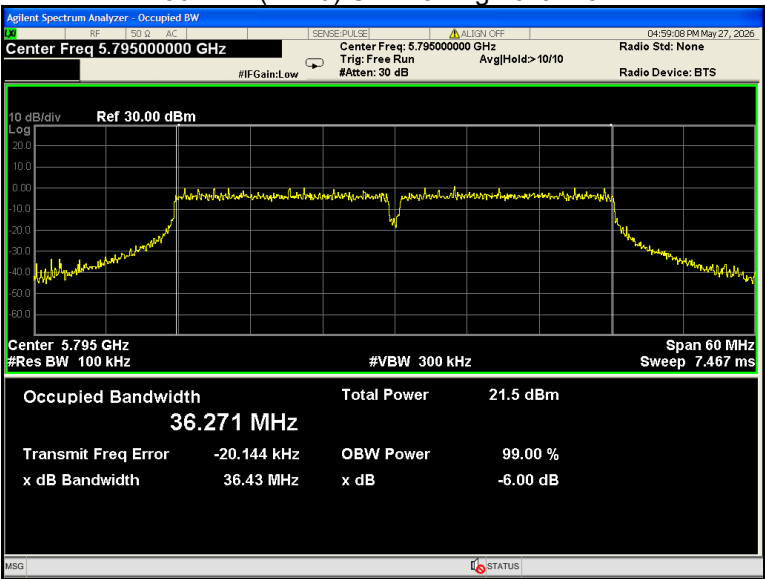
802.11n(HT20) U-NII-3 High channel



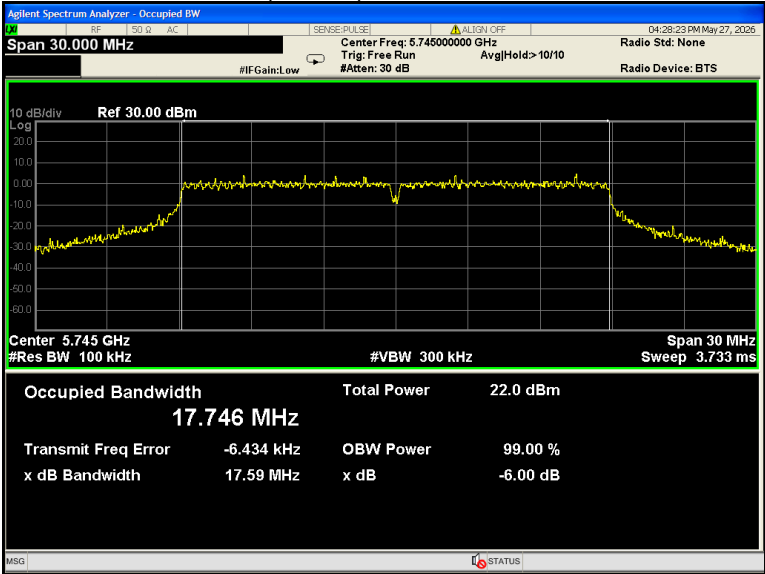
802.11n(HT40) U-NII-3 Low channel



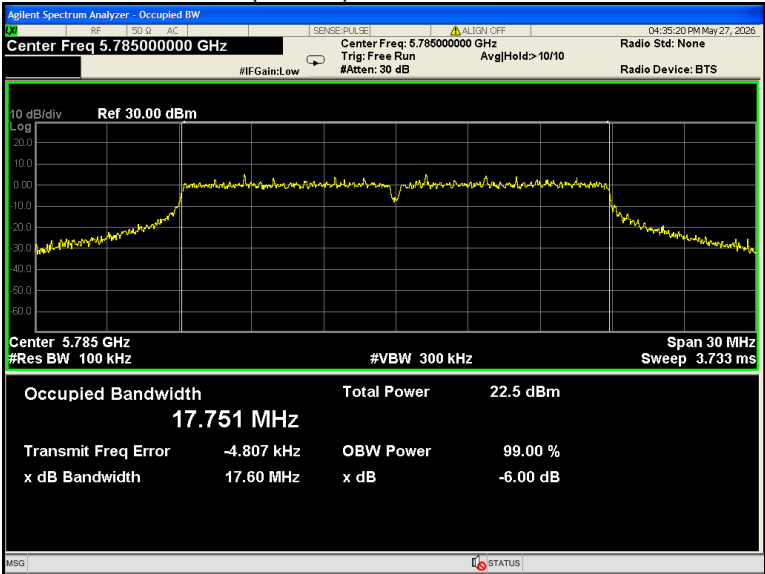
802.11n(HT40) U-NII-3 High channel



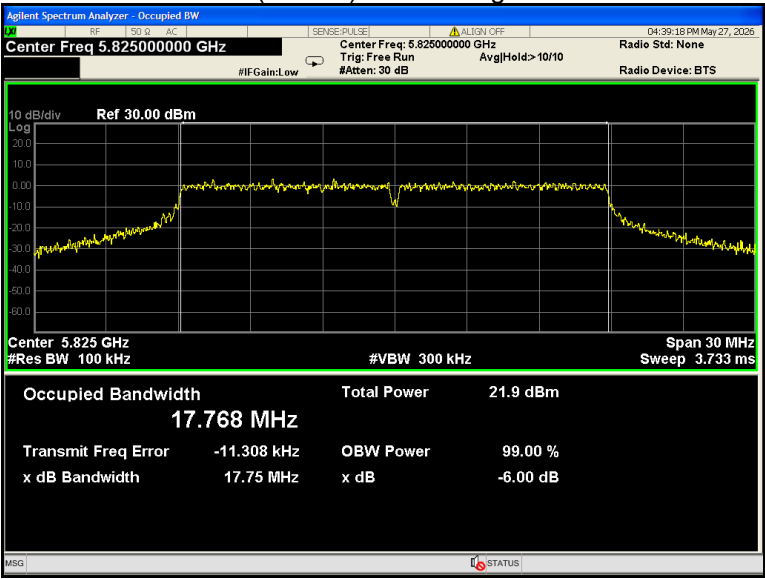
802.11ac(VHT20) U-NII-3 Low channel



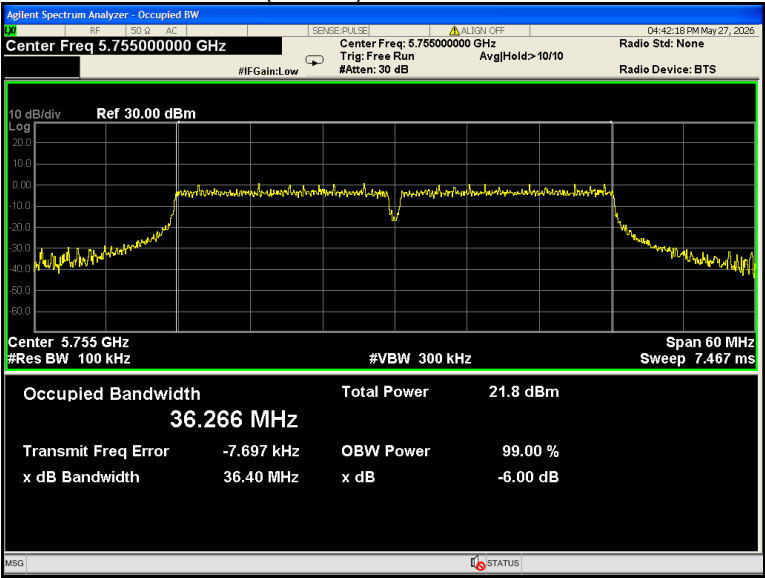
802.11ac(VHT20) U-NII-3 Middle channel



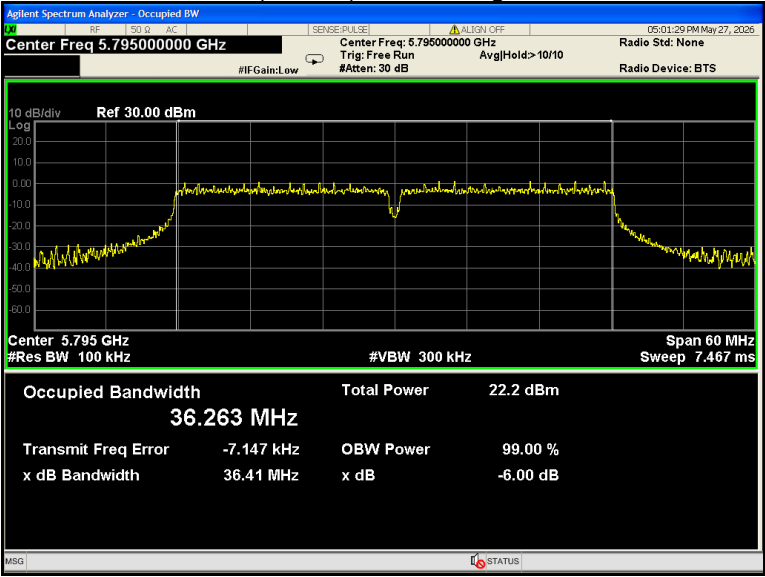
802.11ac(VHT20) U-NII-3 High channel



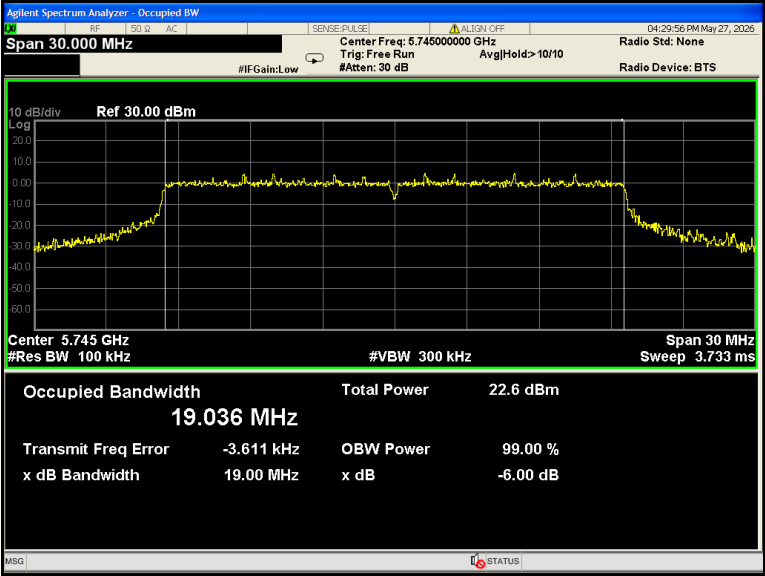
802.11ac(VHT40) U-NII-3 Low channel



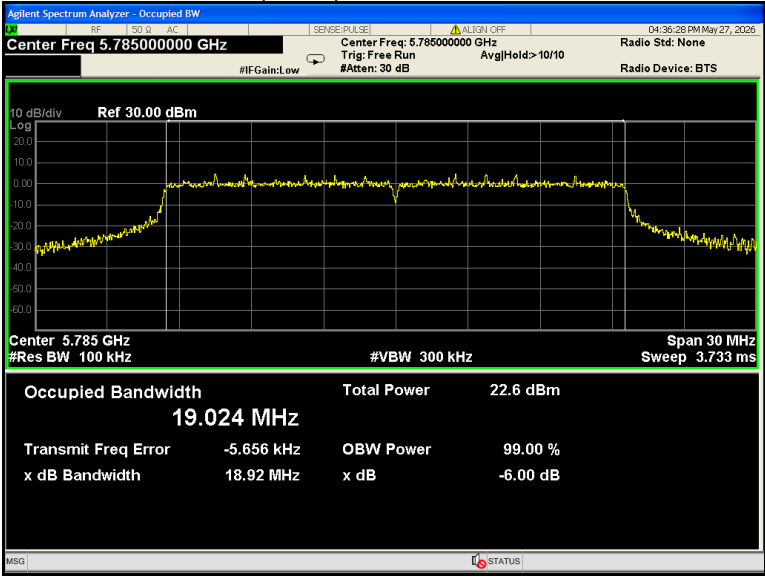
802.11ac(VHT40) U-NII-3 High channel



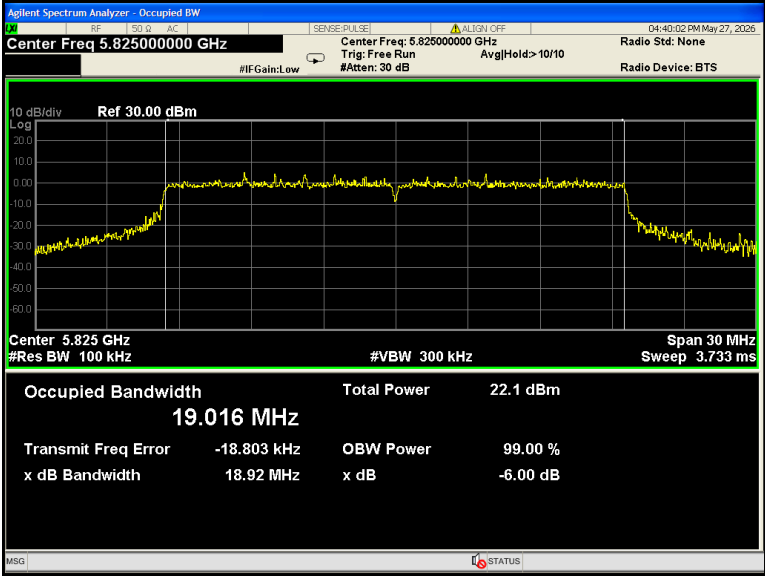
802.11ax(HE20) U-NII-3 Low channel



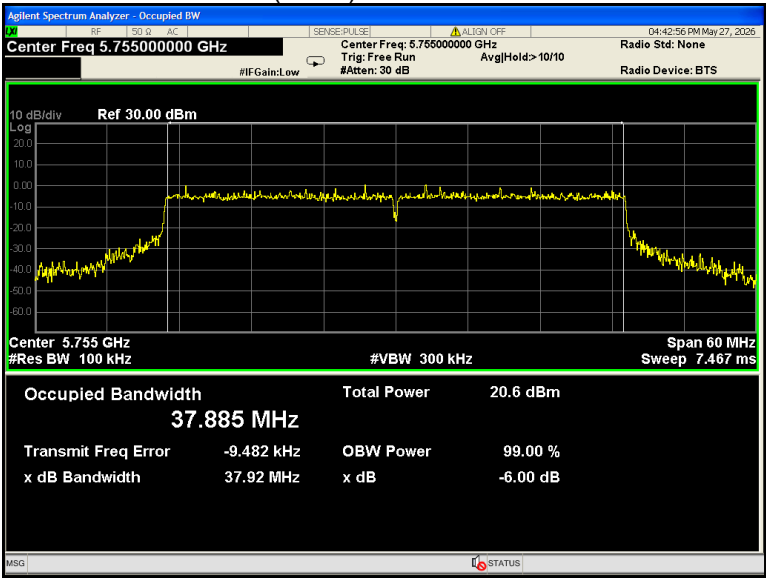
802.11ax(HE20) U-NII-3 Middle channel



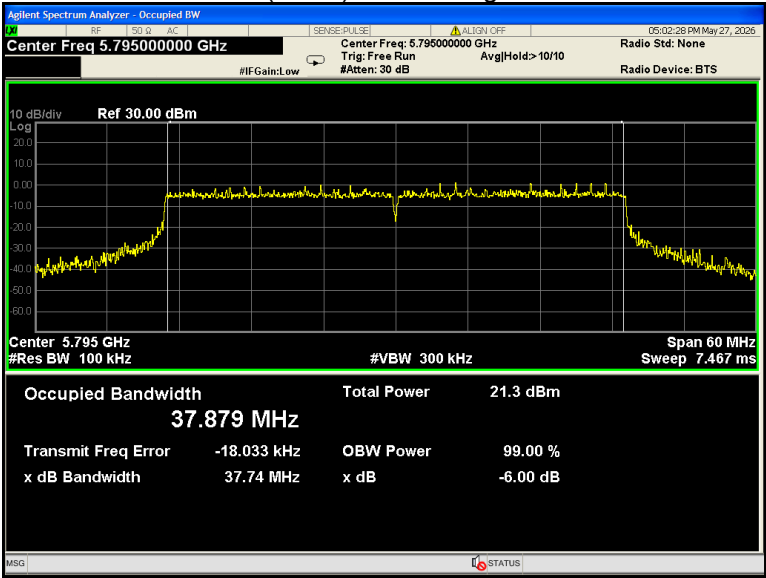
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



11 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407 (a) KDB789033 D02 General U-NII Test Procedures New Rules v02r01
Test Method:	Section D ANSI C63.10-2020
Test Limit:	No restriction limits
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 = 1% to 5% of the OBW, VBW = 3x RBW

11.2 Test Result

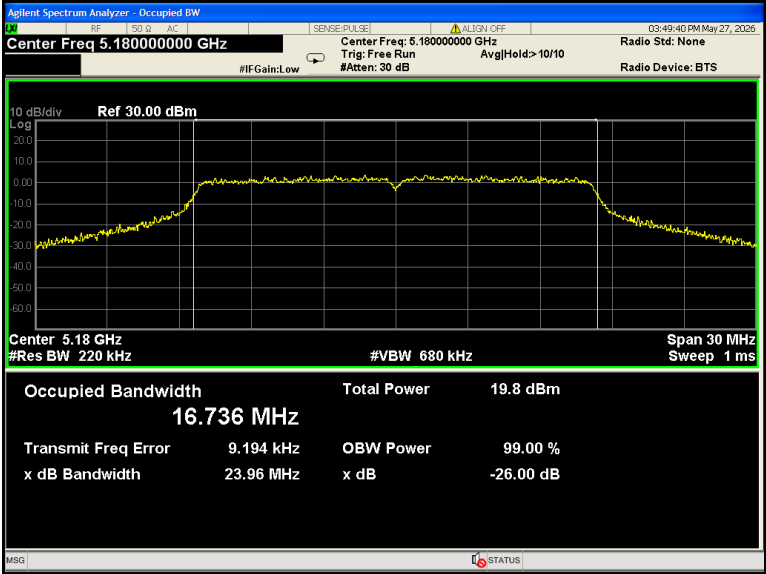
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	23.96	23.26	23.79	16.736	16.663	16.630
	802.11n(HT20)	23.78	26.07	23.80	17.812	17.871	17.843
	802.11n(HT40)	45.18	/	43.03	36.367	/	36.325
	802.11ac(VHT20)	24.95	24.90	23.97	17.837	17.860	17.862
	802.11ac(VHT40)	45.08	/	43.83	36.294	/	36.315
	802.11ax(HE20)	25.28	23.00	25.81	18.984	19.027	18.995
	802.11ax(HE40)	43.30	/	43.39	37.767	/	37.850

Band	Operation mode	99% Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.809	16.803	16.812
	802.11n(HT20)	17.951	18.037	17.939
	802.11n(HT40)	36.509	/	36.510
	802.11ac(VHT20)	17.961	17.940	17.961
	802.11ac(VHT40)	36.453	/	36.434
	802.11ax(HE20)	19.059	19.132	19.147
	802.11ax(HE40)	37.958	/	37.947

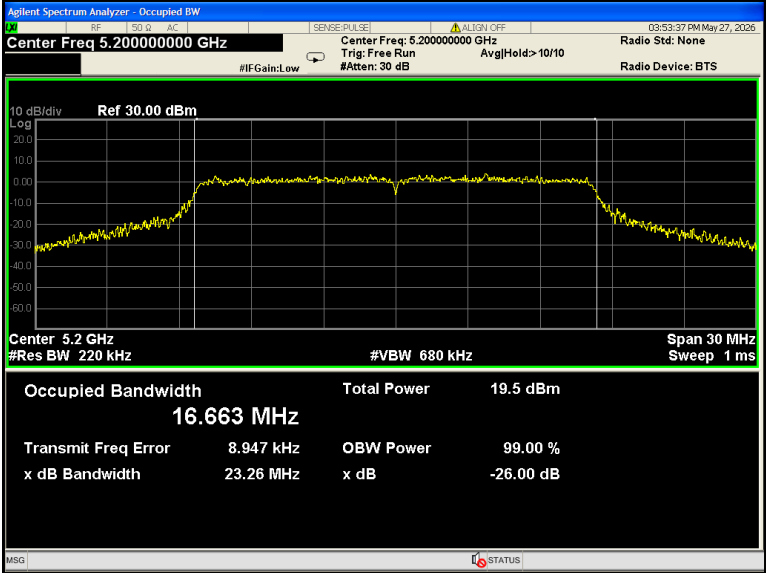
Test result plots shown as follows:

26 dB and 99%Bandwidth

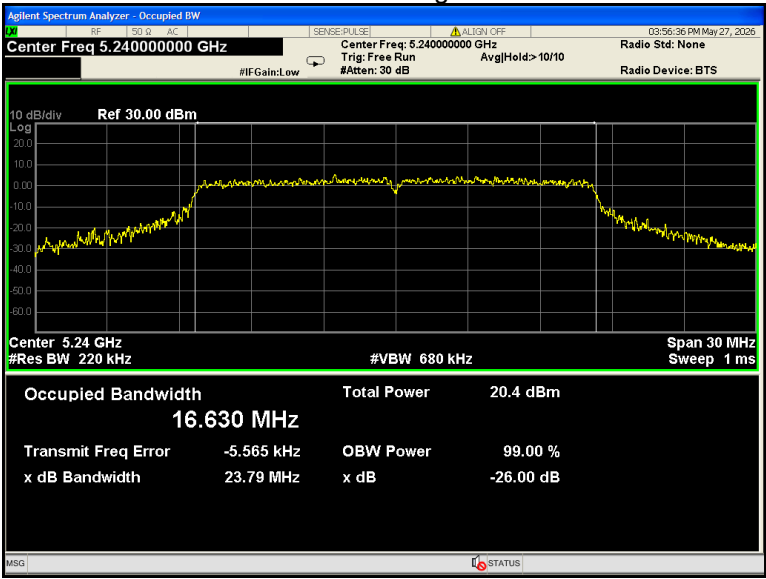
802.11a U-NII-1 Low channel



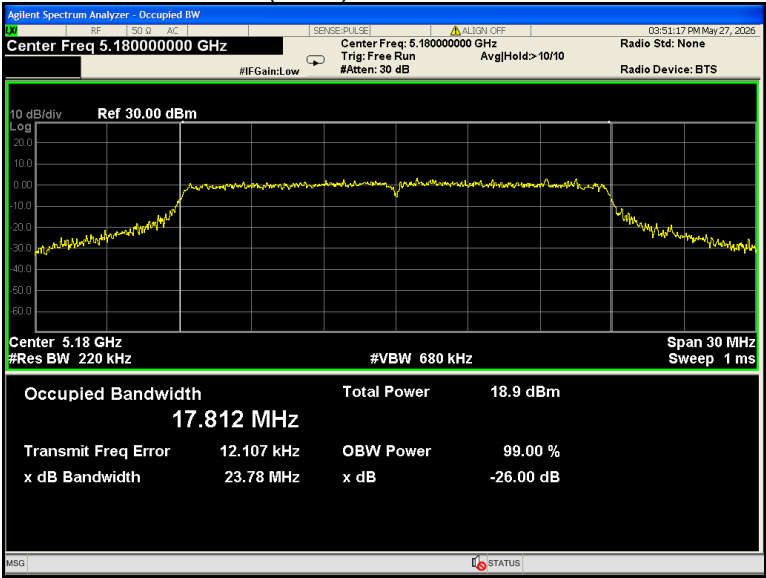
802.11a U-NII-1 Middle channel



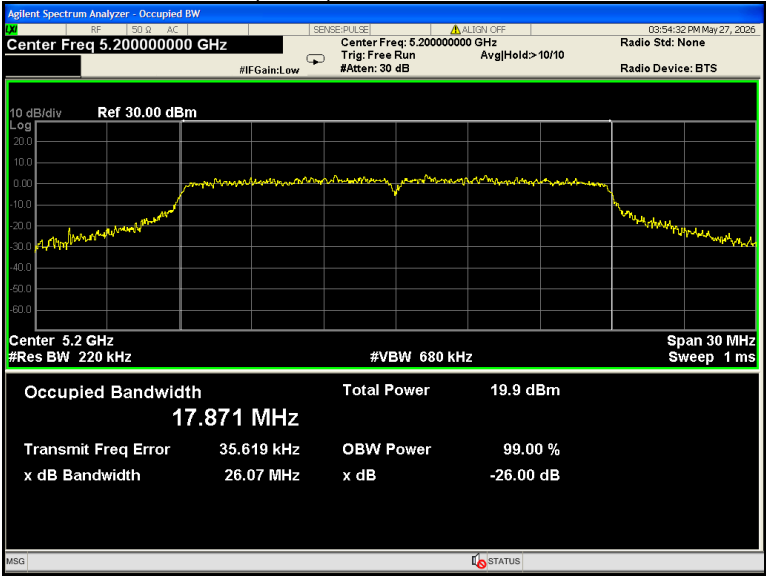
802.11a U-NII-1 High channel



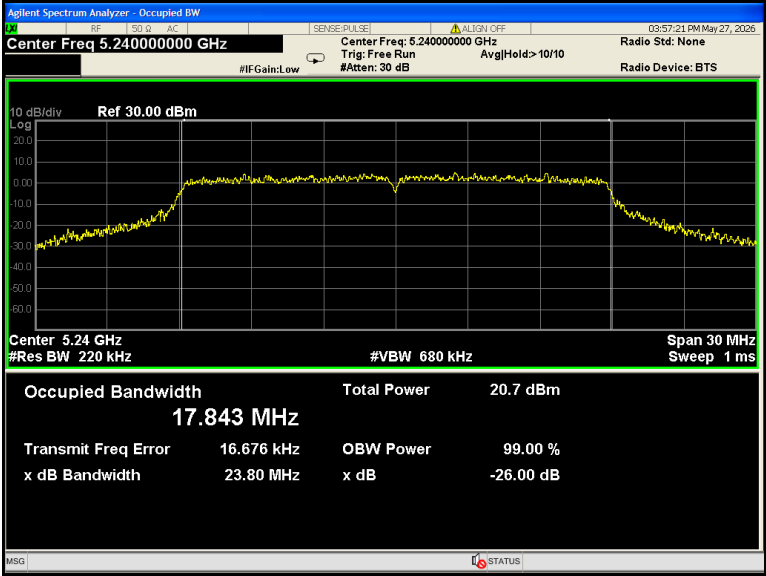
802.11n(HT20) U-NII-1 Low channel



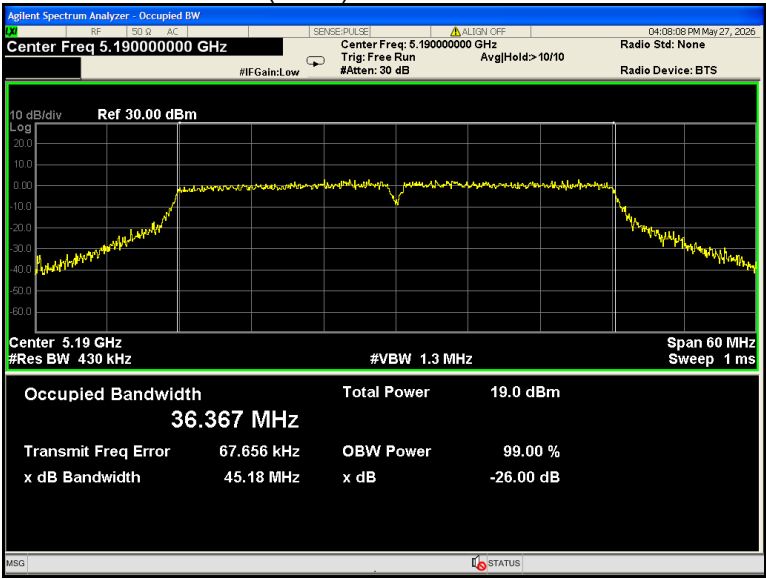
802.11n(HT20) U-NII-1 Middle channel



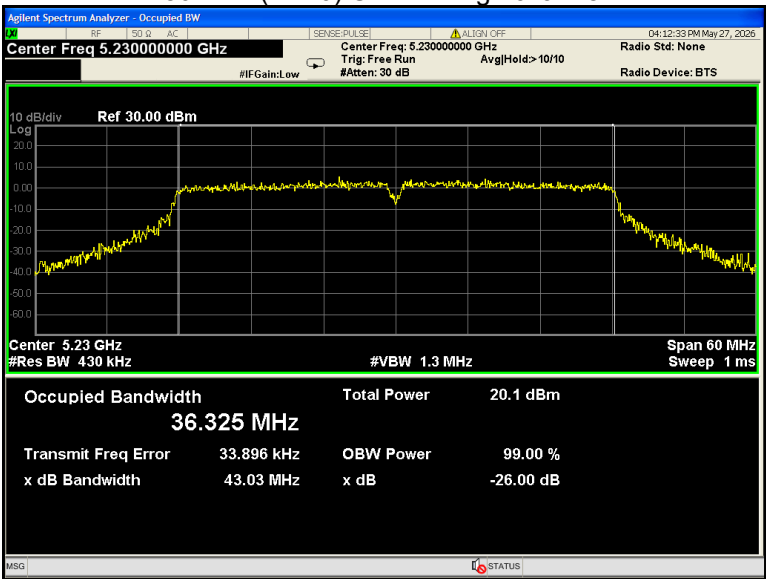
802.11n(HT20) U-NII-1 High channel



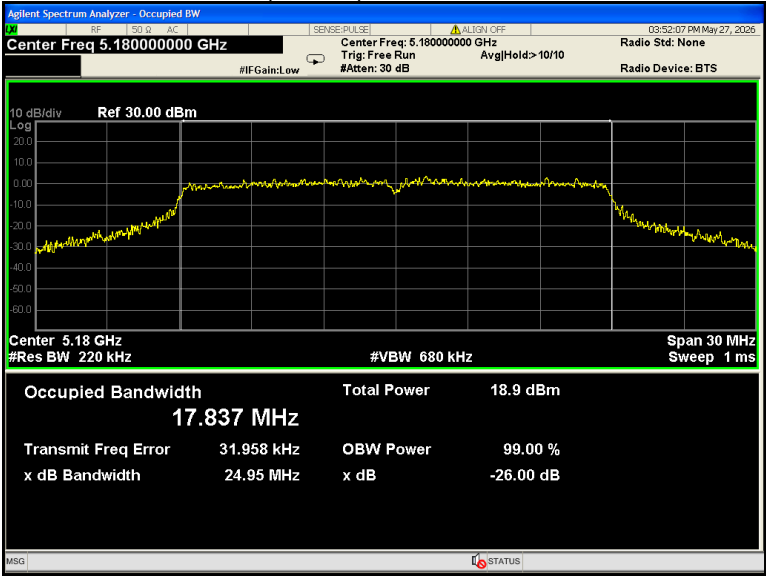
802.11n(HT40) U-NII-1 Low channel



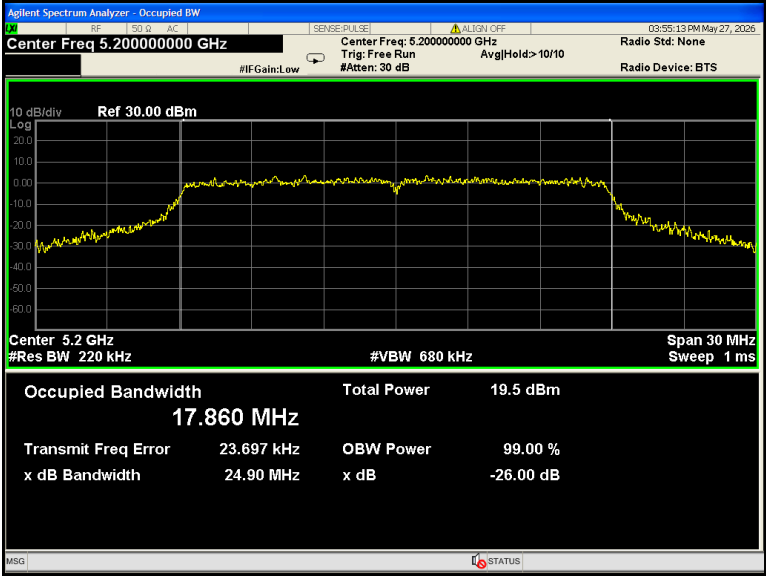
802.11n(HT40) U-NII-1 High channel



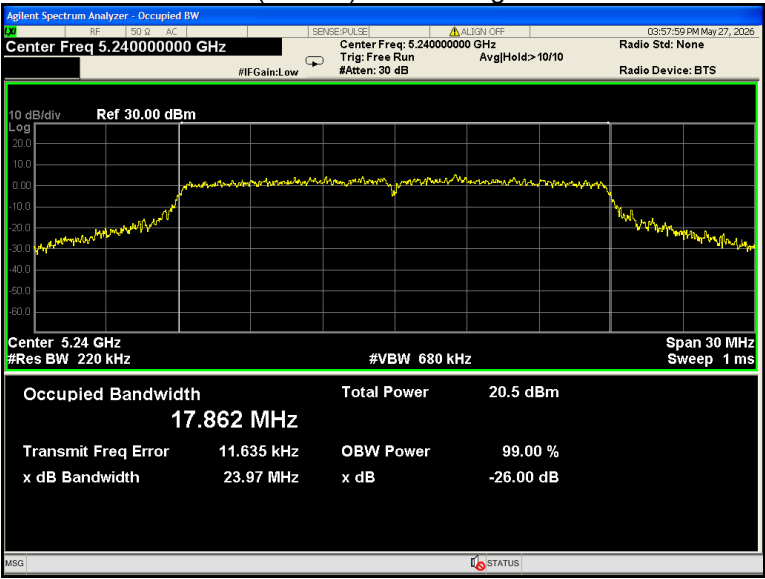
802.11ac(VHT20) U-NII-1 Low channel



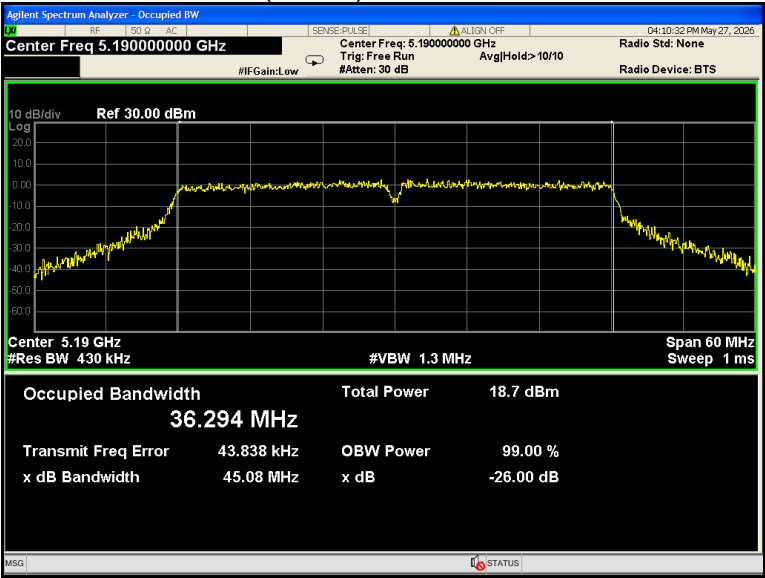
802.11ac(VHT20) U-NII-1 Middle channel



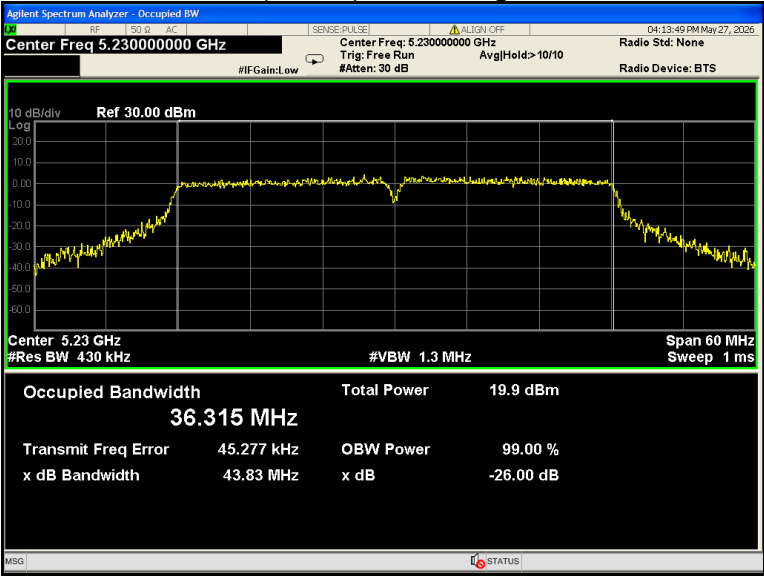
802.11ac(VHT20) U-NII-1 High channel



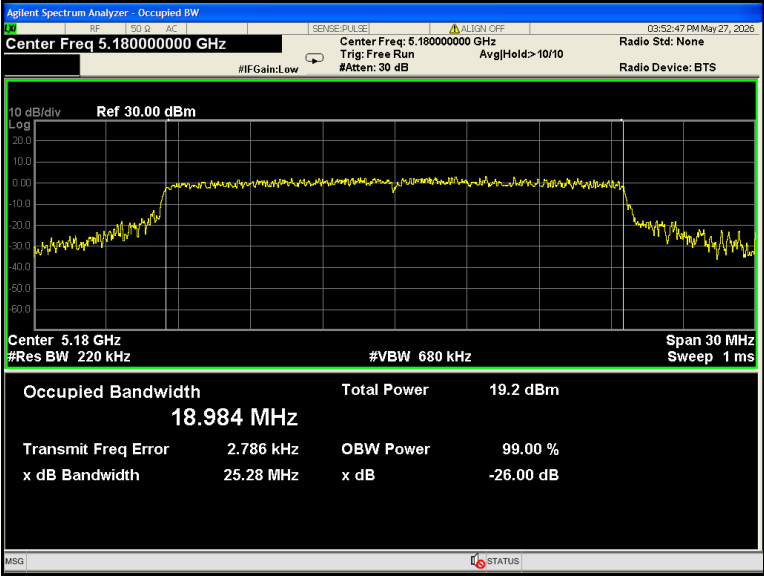
802.11ac(VHT40) U-NII-1 Low channel



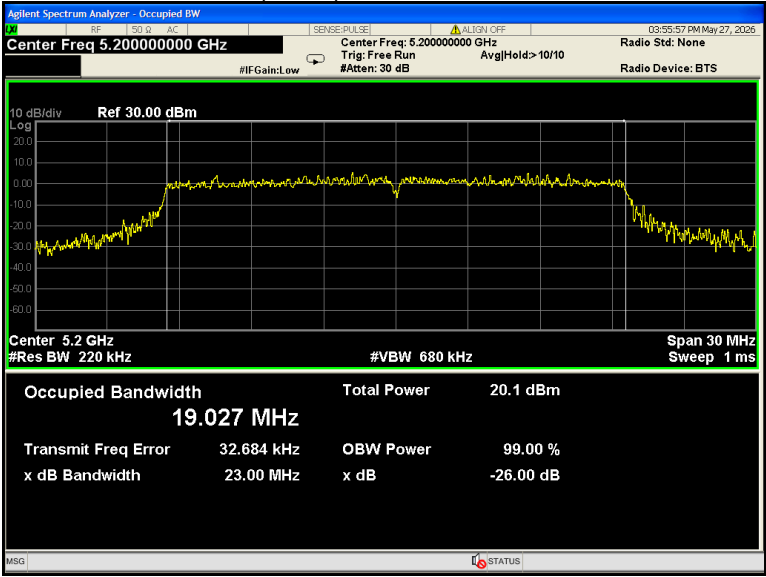
802.11ac(VHT40) U-NII-1 High channel



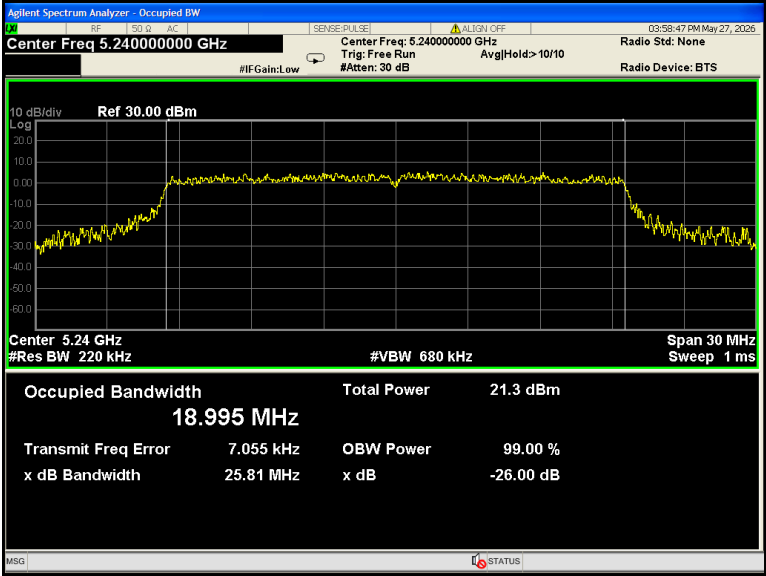
802.11ax(HE20) U-NII-1 Low channel



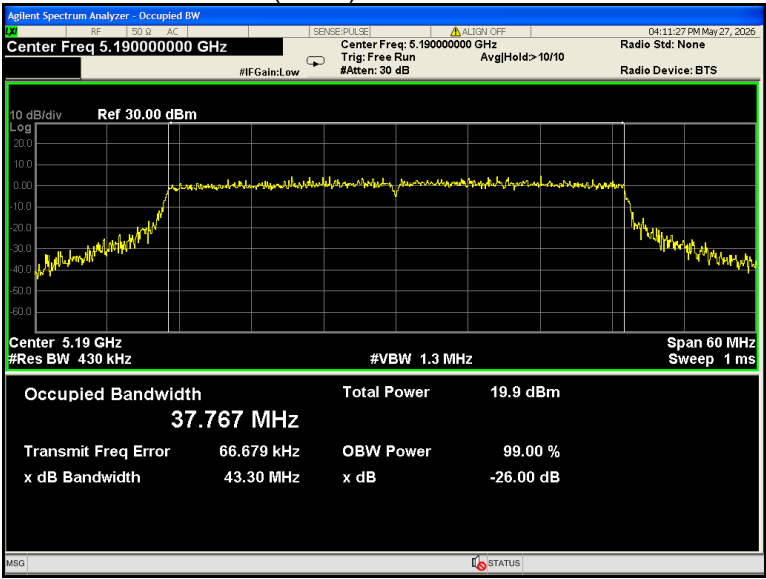
802.11ax(HE20) U-NII-1 Middle channel



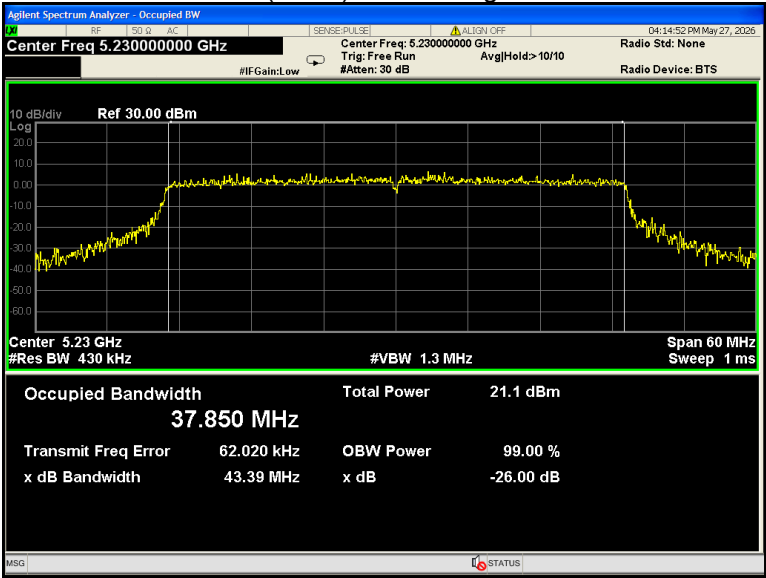
802.11ax(HE20) U-NII-1 High channel



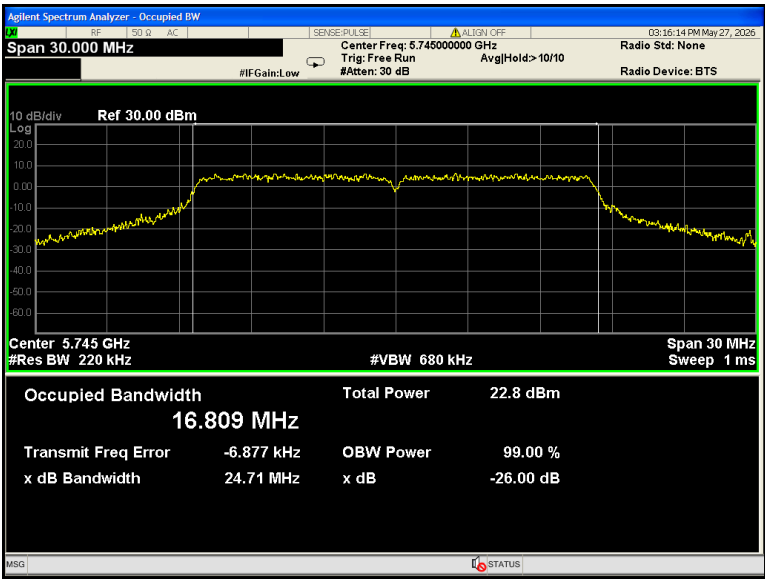
802.11ax(HE40) U-NII-1 Low channel



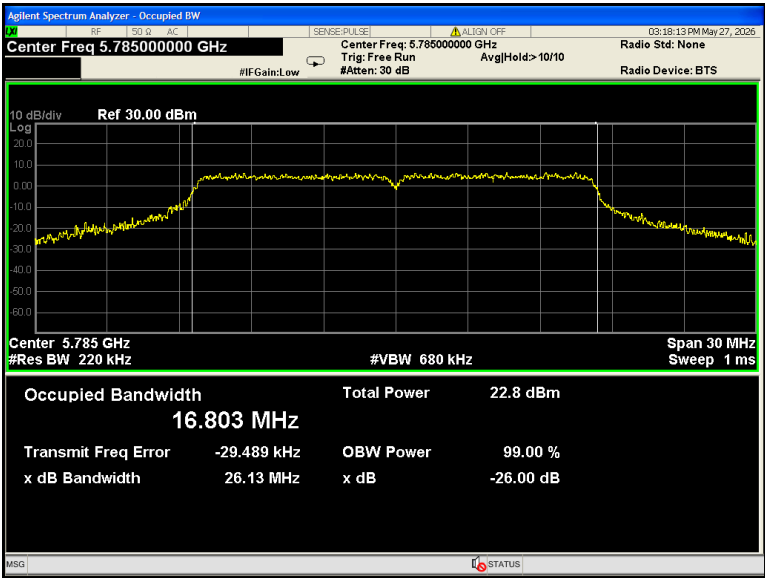
802.11ax(HE40) U-NII-1 High channel



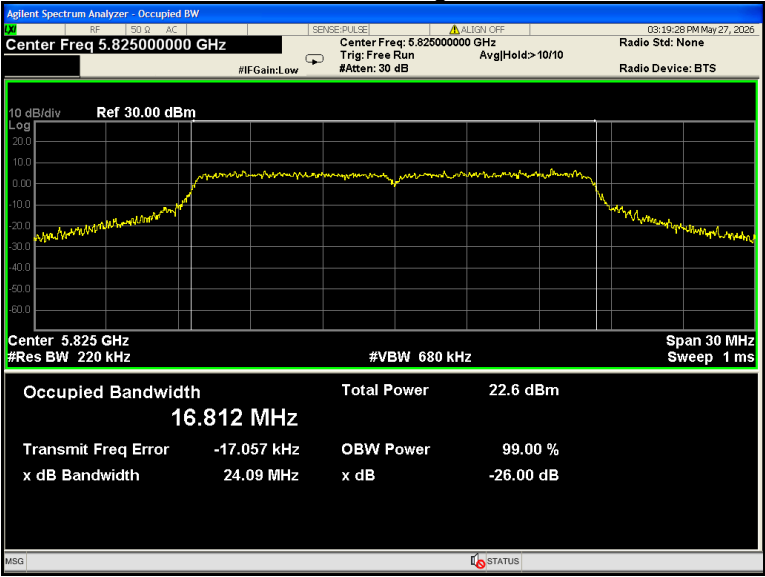
99% Occupied Bandwidth
802.11a U-NII-3 Low channel



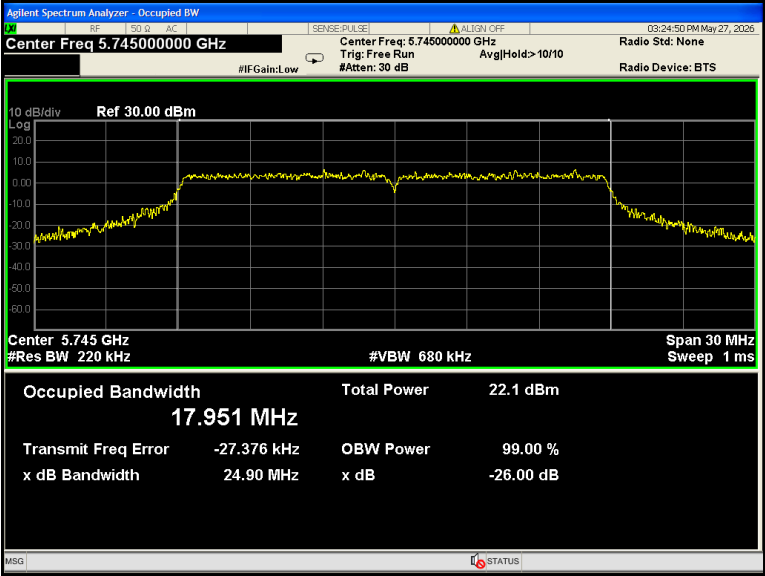
802.11a U-NII-3 Middle channel



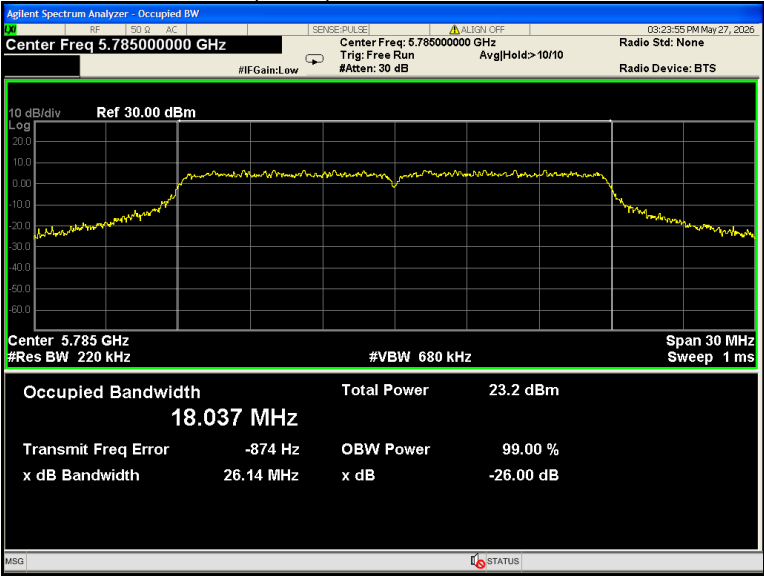
802.11a U-NII-3 High channel



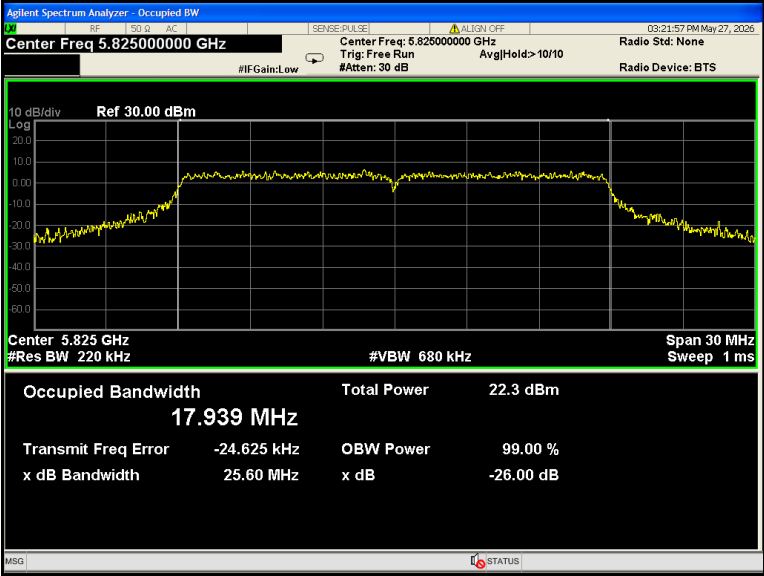
802.11n(HT20) U-NII-3 Low channel



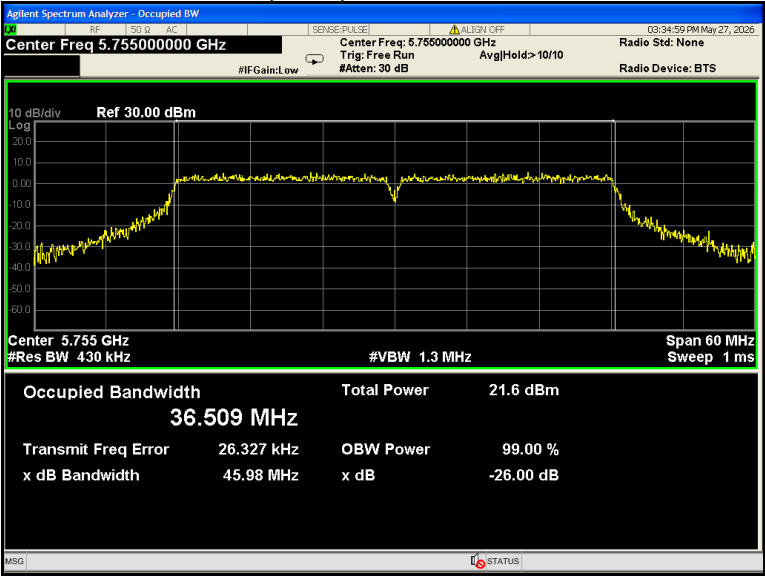
802.11n(HT20) U-NII-3 Middle channel



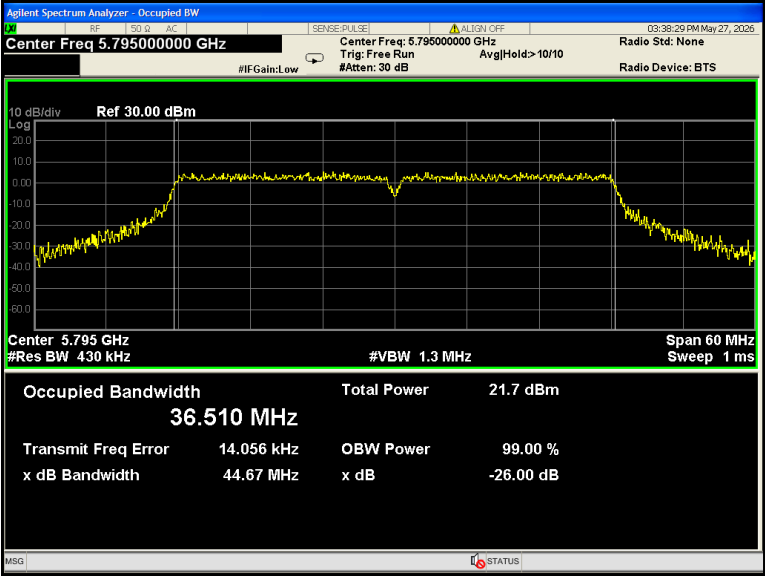
802.11n(HT20) U-NII-3 High channel



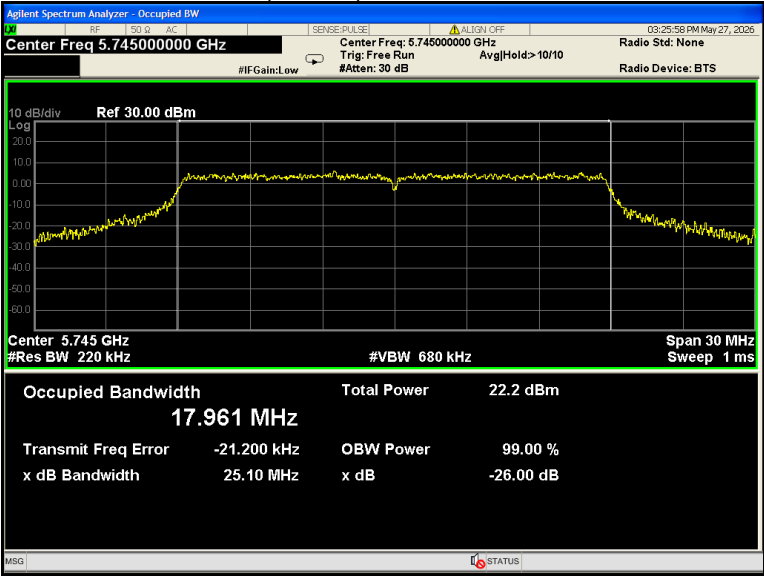
802.11n(HT40) U-NII-3 Low channel



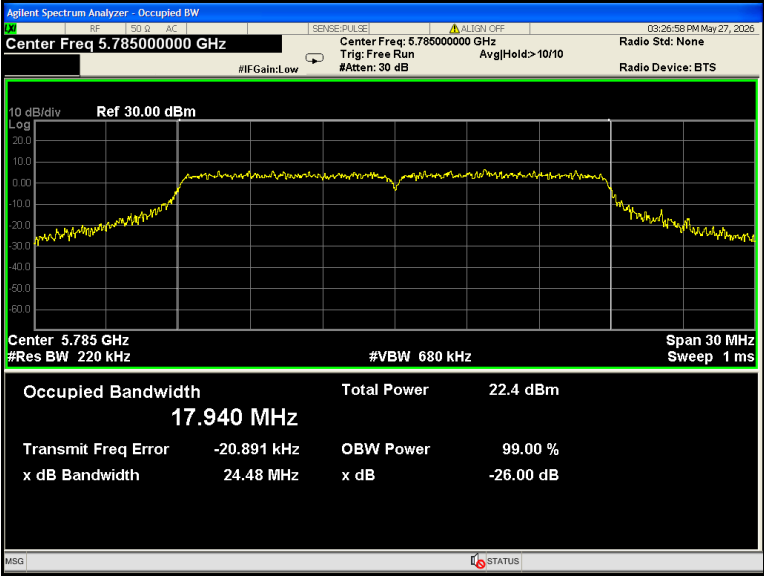
802.11n(HT40) U-NII-3 High channel



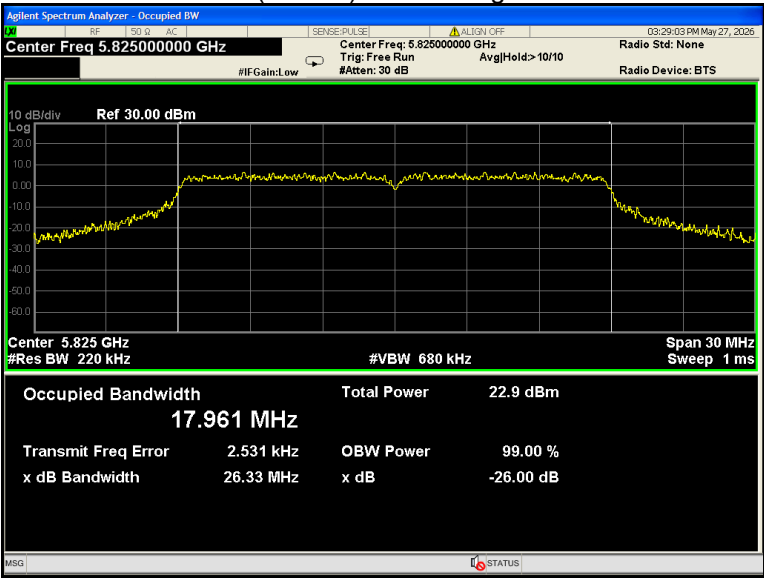
802.11ac(VHT20) U-NII-3 Low channel



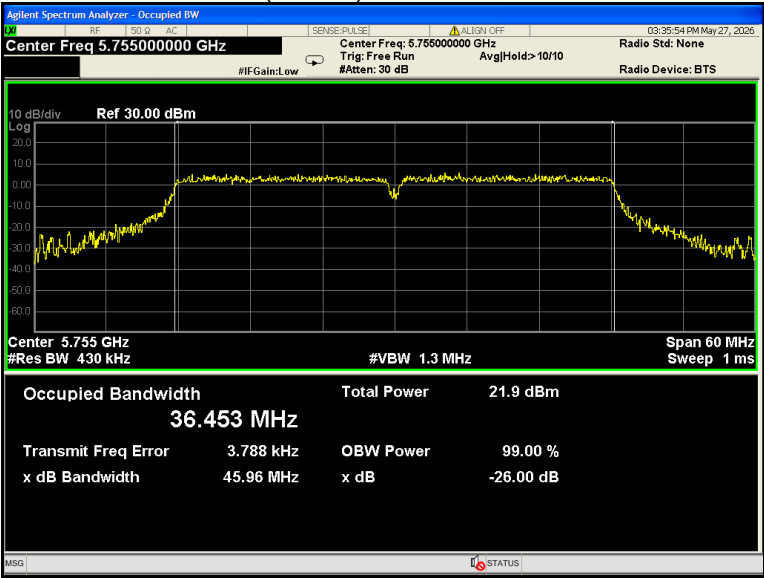
802.11ac(VHT20) U-NII-3 Middle channel



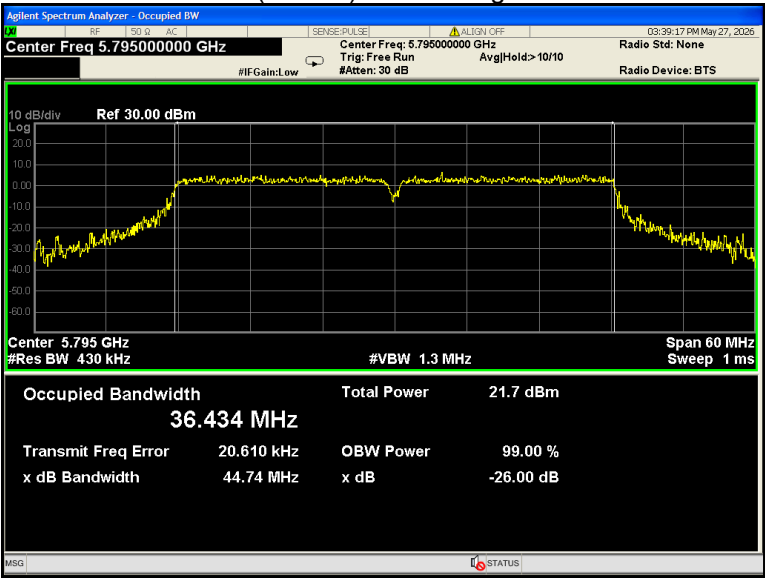
802.11ac(VHT20) U-NII-3 High channel



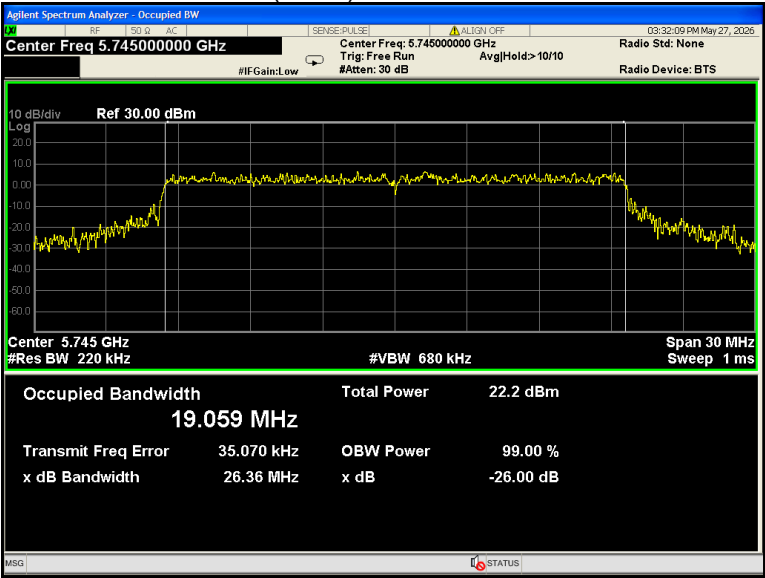
802.11ac(VHT40) U-NII-3 Low channel



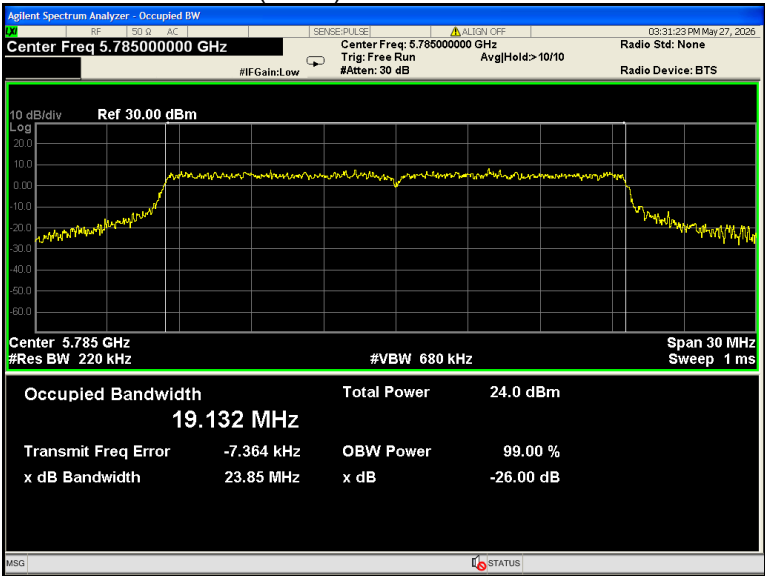
802.11ac(VHT40) U-NII-3 High channel



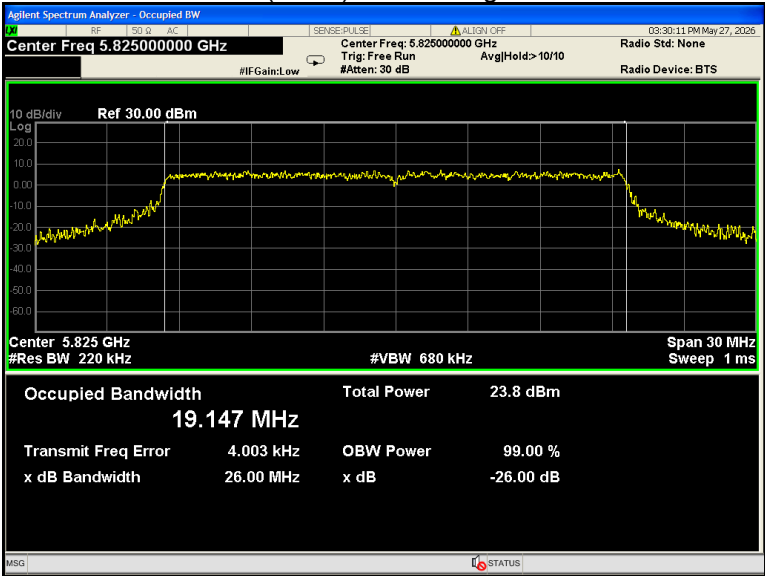
802.11ax(HE20) U-NII-3 Low channel



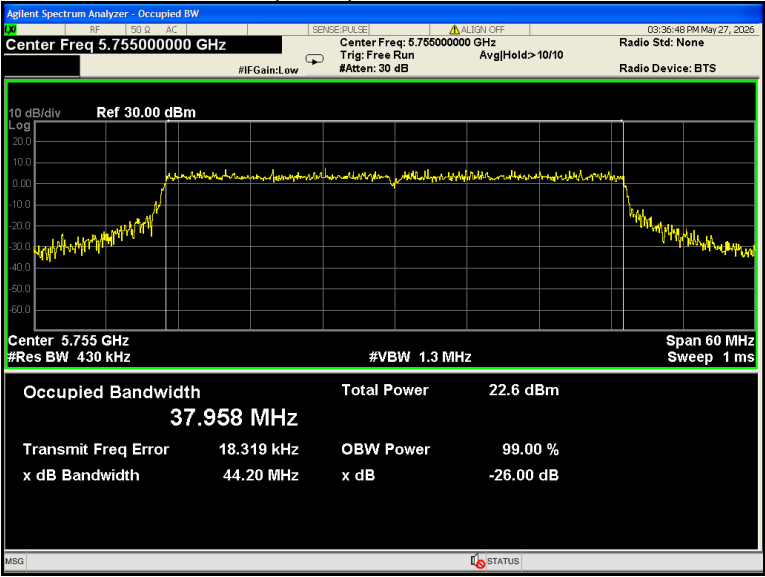
802.11ax(HE20) U-NII-3 Middle channel



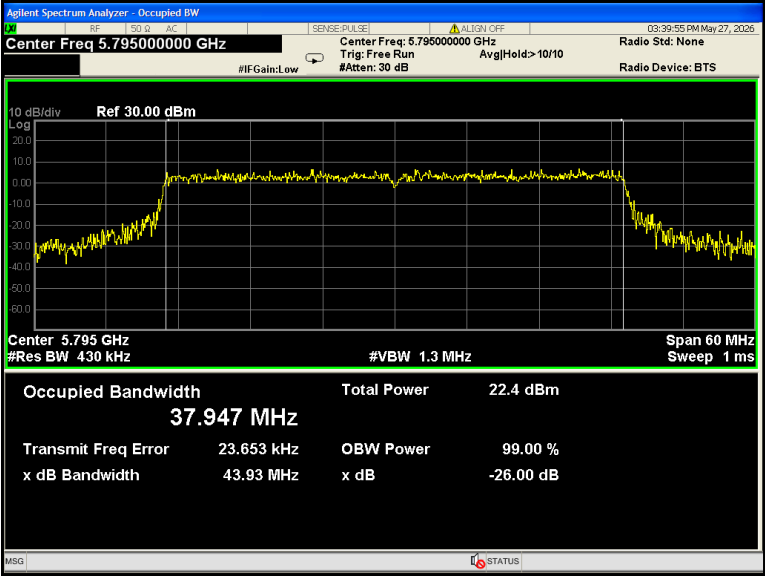
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



12 Maximum Conducted Output Power

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a) KDB789033 D02 General U-NII Test Procedures New Rules v02r01
Test Method:	Section E ANSI C63.10-2020
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

12.1 Test Procedure

Note: the method used in this report is Method SA-1.

The procedure for this method is as follows:

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = Power averaging (rms), if available. Otherwise, use sample detector mode.
- If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty

cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

- h) Trace average at least 100 traces in power averaging (rms) mode.
- i) Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function, with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.

12.2 Test Result

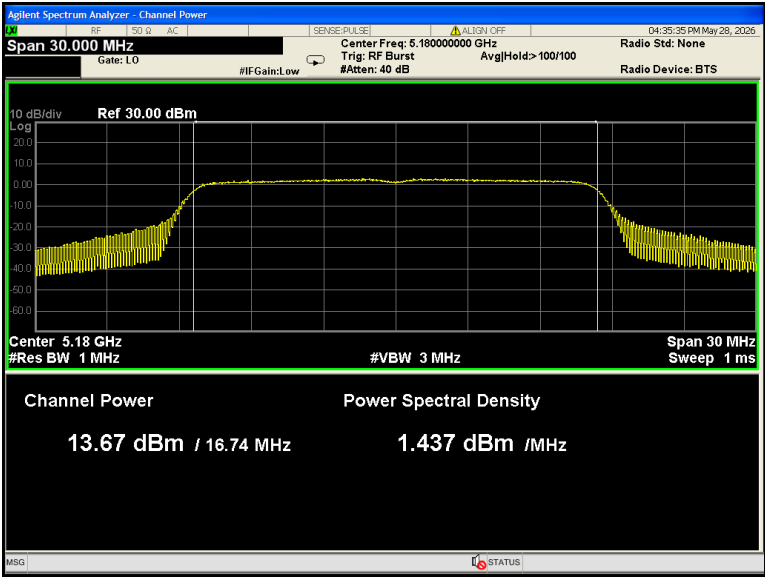
Note: the method used in this report is Method SA-1.

Band	Operation mode	Channel	Measurements (dBm)	Limit
U-NII-1	802.11a	Low	13.67	250mW / 24dBm
		Middle	14.42	
		High	15.59	
	802.11n(HT20)	Low	13.69	
		Middle	14.40	
		High	15.56	
	802.11n(HT40)	Low	14.09	
		Middle	/	
		High	15.37	
	802.11ac(VHT20)	Low	13.71	
		Middle	14.37	
		High	15.57	
	802.11ac(VHT40)	Low	13.54	
		Middle	/	
		High	15.43	
	802.11ax(HE20)	Low	13.68	
		Middle	13.80	
		High	15.56	
	802.11ax(HE40)	Low	14.15	
		Middle	/	
		High	15.48	

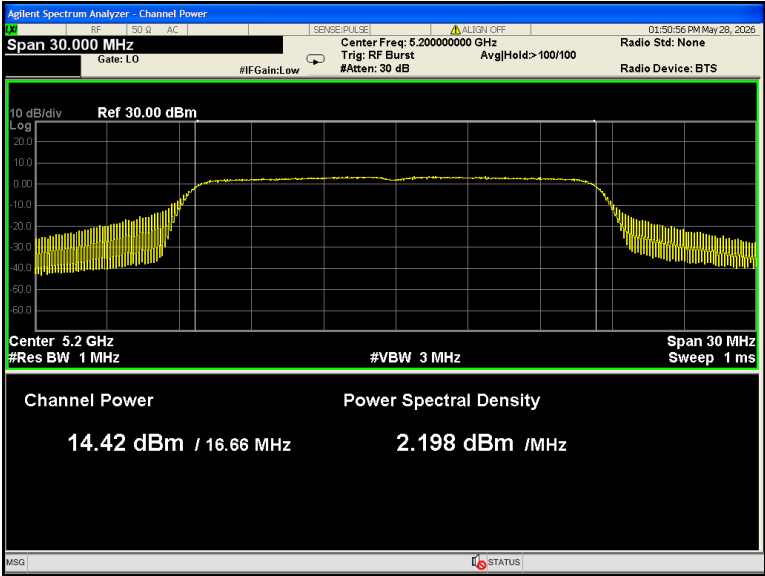
Band	Operation mode	Channel	Measurements (dBm)	Limt
U-NII-3	802.11a	Low	16.96	1W / 30dBm
		Middle	17.14	
		High	17.17	
	802.11n(HT20)	Low	16.94	
		Middle	17.16	
		High	17.12	
	802.11n(HT40)	Low	16.96	
		Middle	/	
		High	17.10	
	802.11ac(VHT20)	Low	16.92	
		Middle	17.13	
		High	17.14	
	802.11ac(VHT40)	Low	16.92	
		Middle	/	
		High	17.08	
	802.11ax(HE20)	Low	16.84	
		Middle	17.07	
		High	17.04	
	802.11ax(HE40)	Low	16.93	
		Middle	/	
		High	17.12	

Test result plots shown as follows:

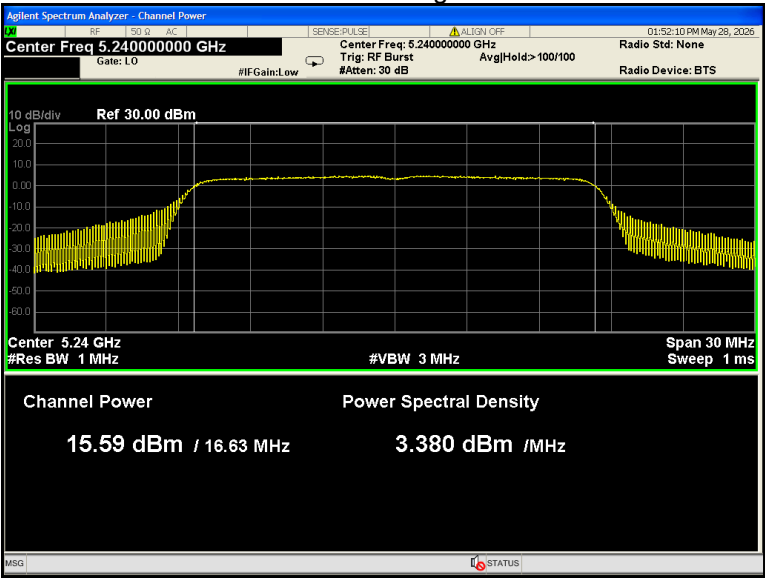
802.11a U-NII-1 Low channel



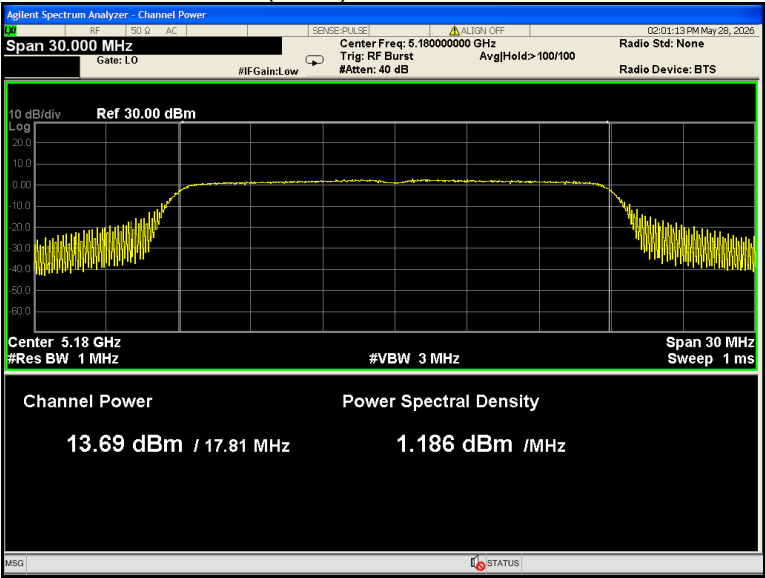
802.11a U-NII-1 Middle channel



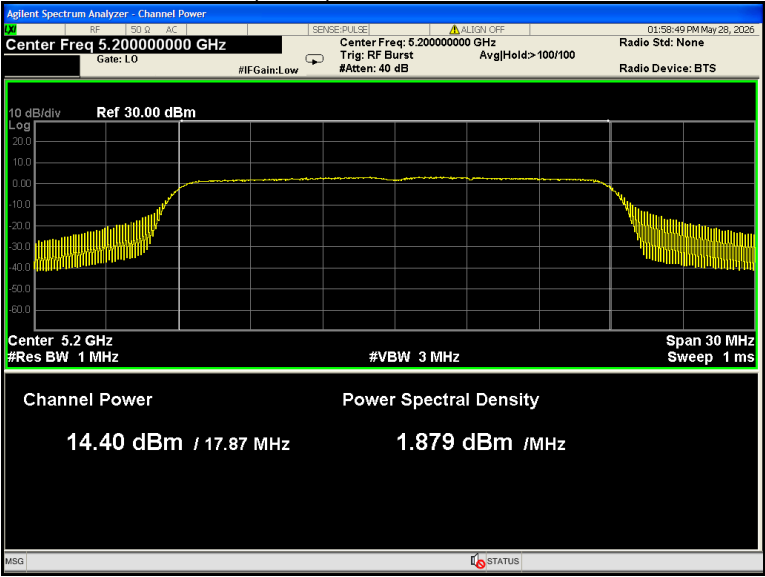
802.11a U-NII-1 High channel



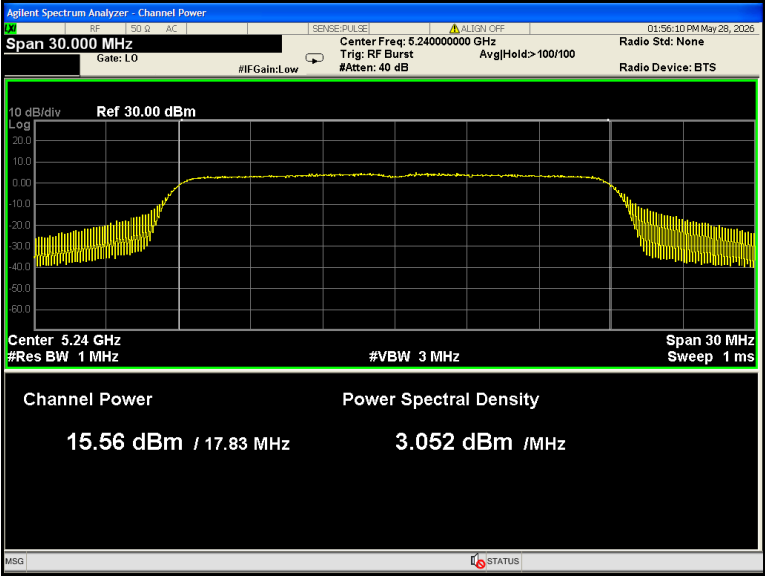
802.11n(HT20) U-NII-1 Low channel



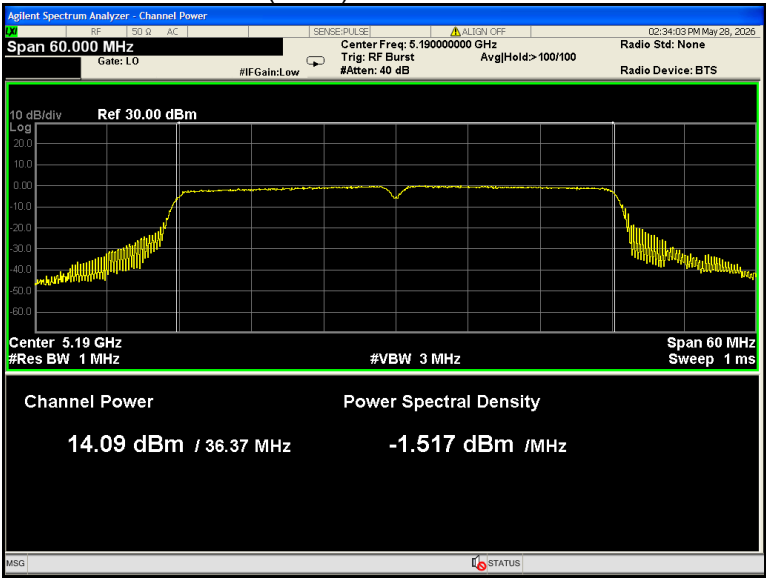
802.11n(HT20) U-NII-1 Middle channel



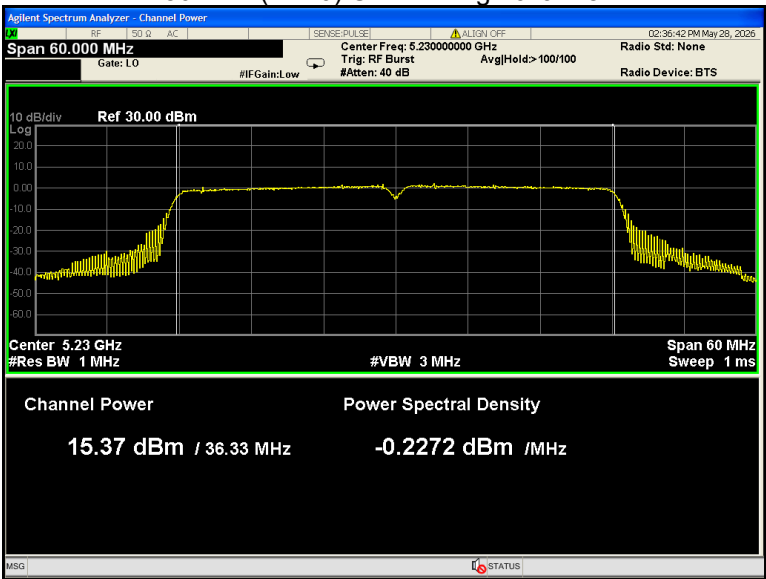
802.11n(HT20) U-NII-1 High channel



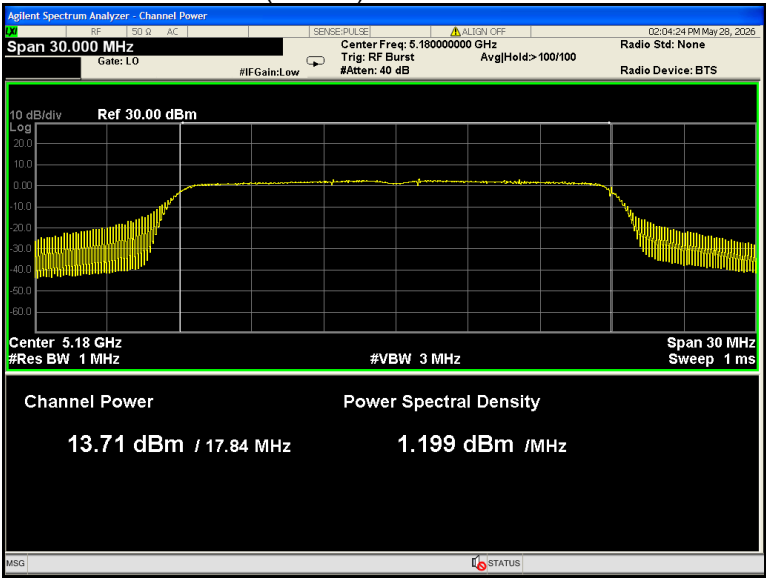
802.11n(HT40) U-NII-1 Low channel



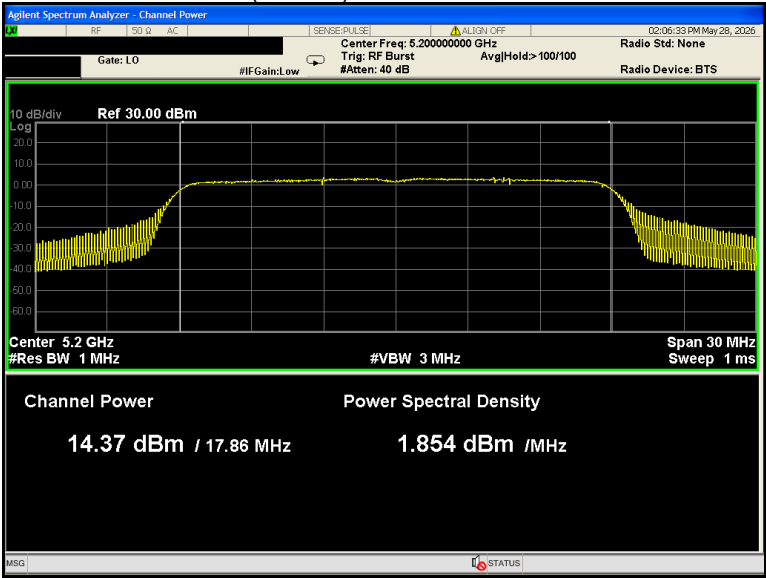
802.11n(HT40) U-NII-1 High channel



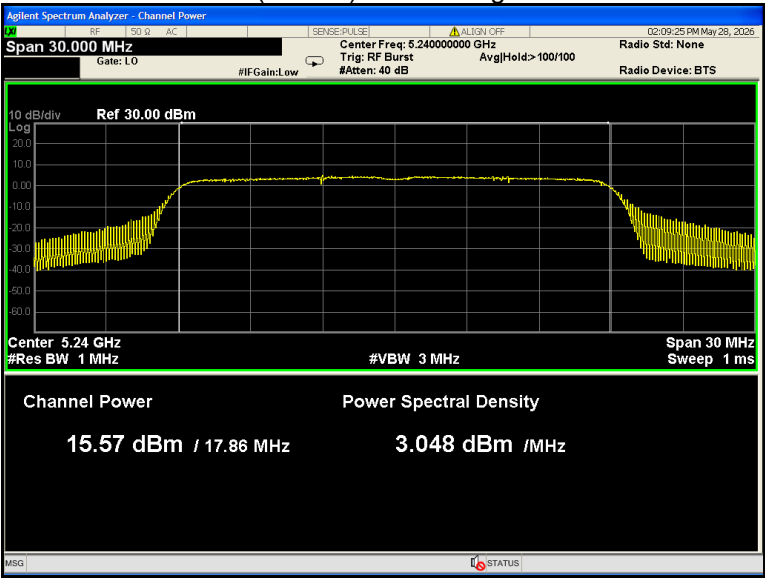
802.11ac(VHT20) U-NII-1 Low channel



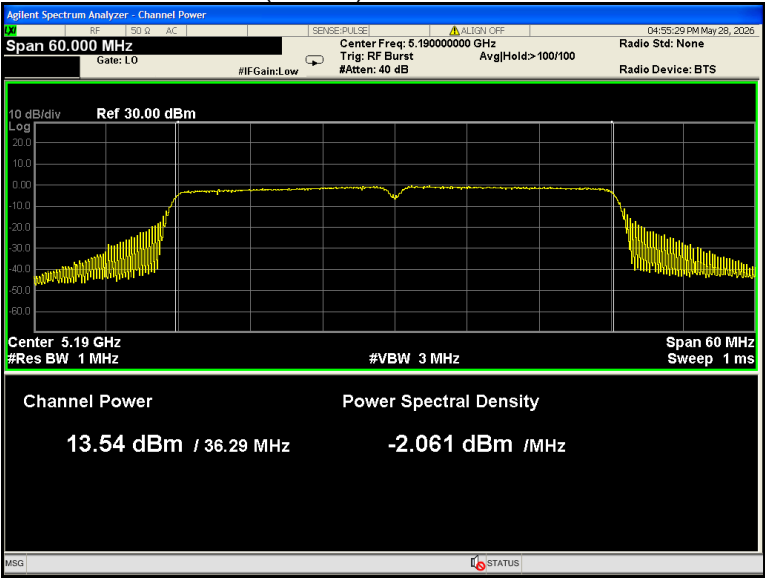
802.11ac(VHT20) U-NII-1 Middle channel



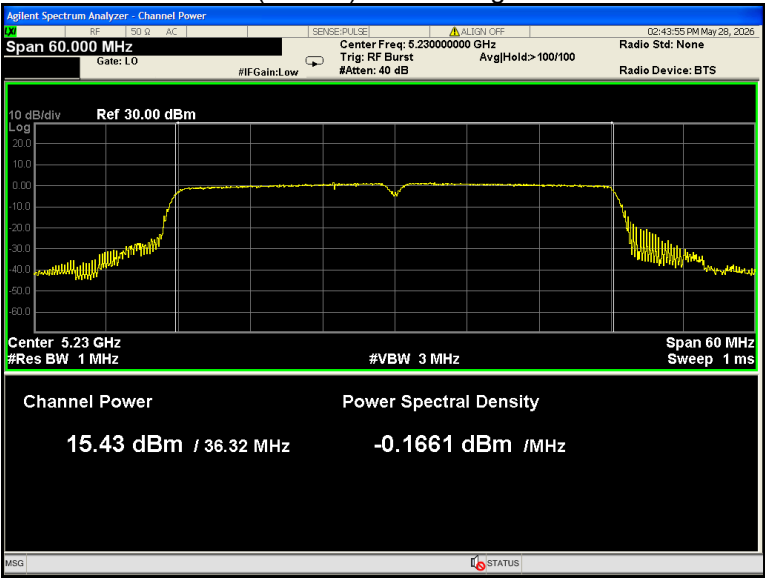
802.11ac(VHT20) U-NII-1 High channel



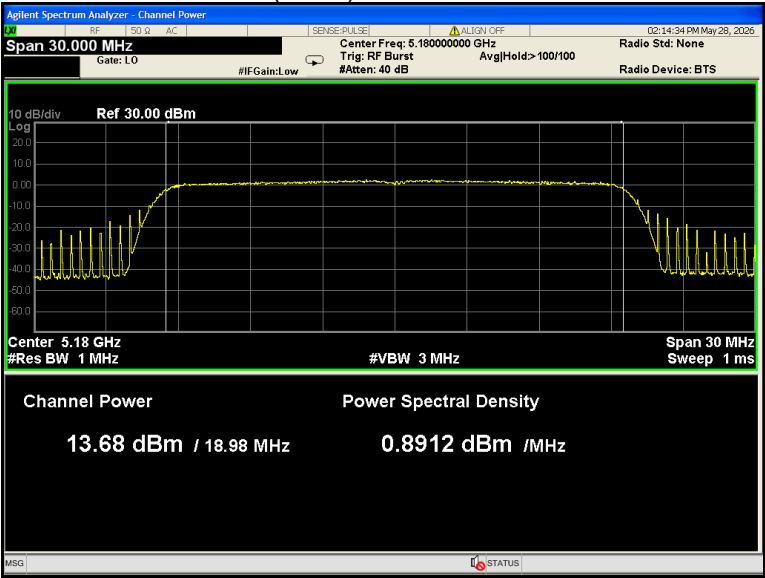
802.11ac(VHT40) U-NII-1 Low channel



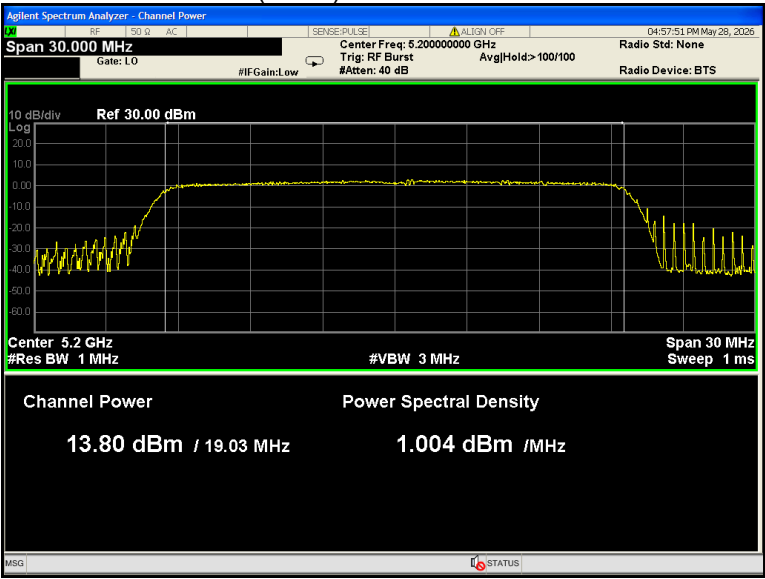
802.11ac(VHT40) U-NII-1 High channel



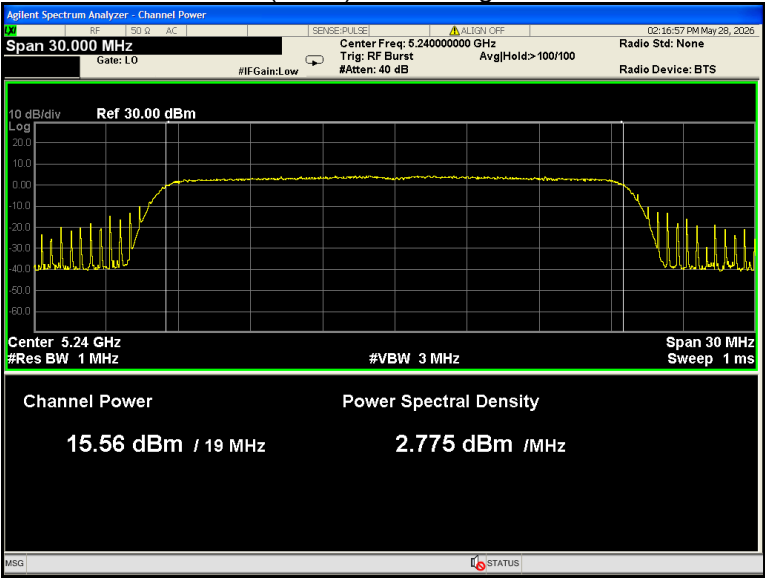
802.11ax(HE20) U-NII-1 Low channel



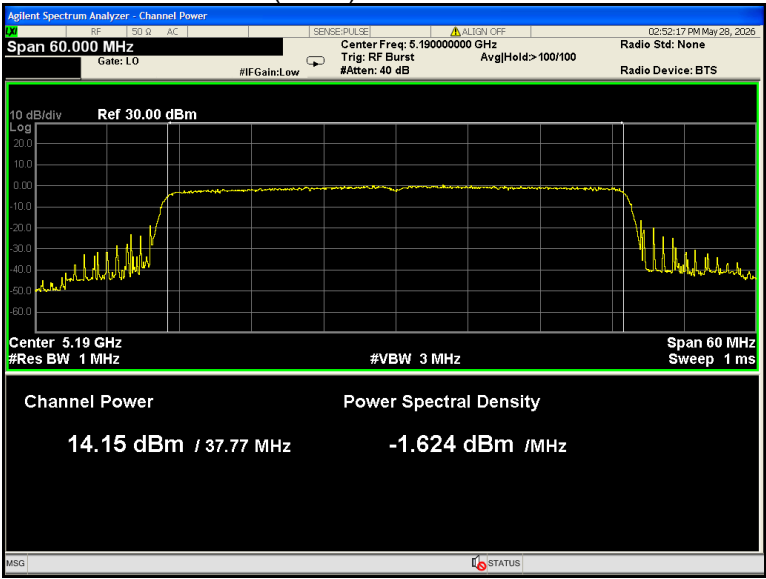
802.11ax(HE20) U-NII-1 Middle channel



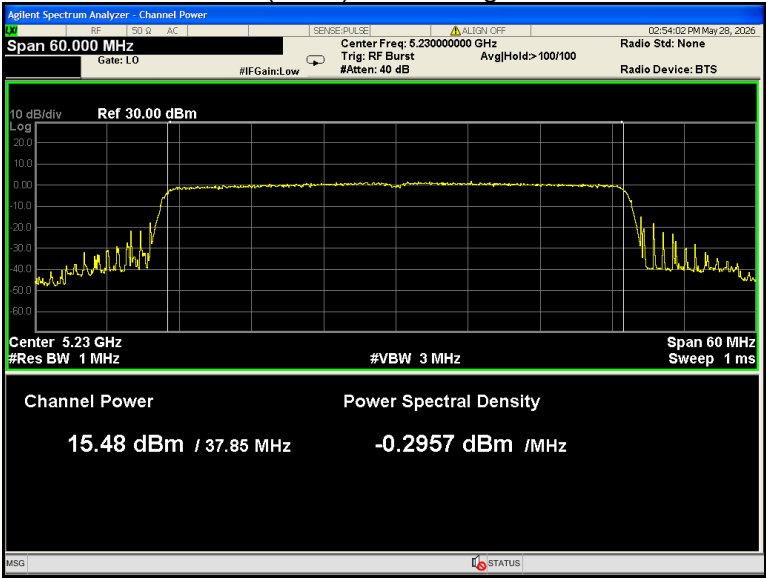
802.11ax(HE20) U-NII-1 High channel



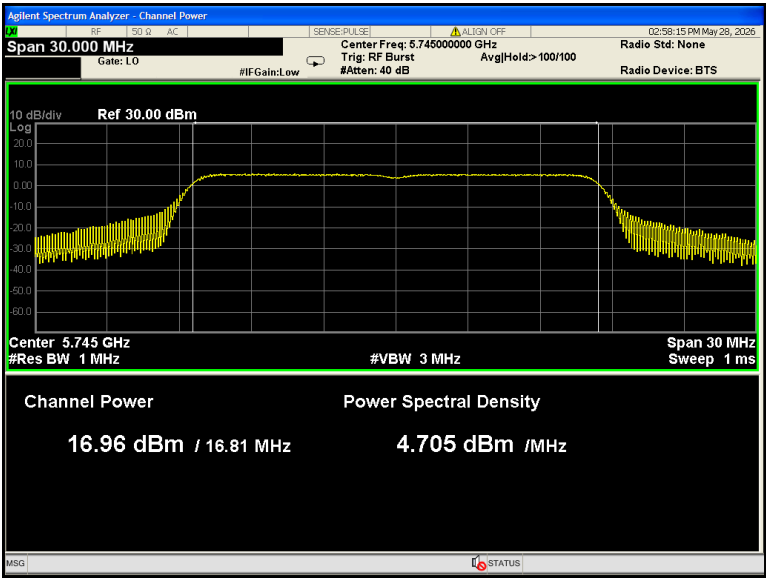
802.11ax(HE40) U-NII-1 Low channel



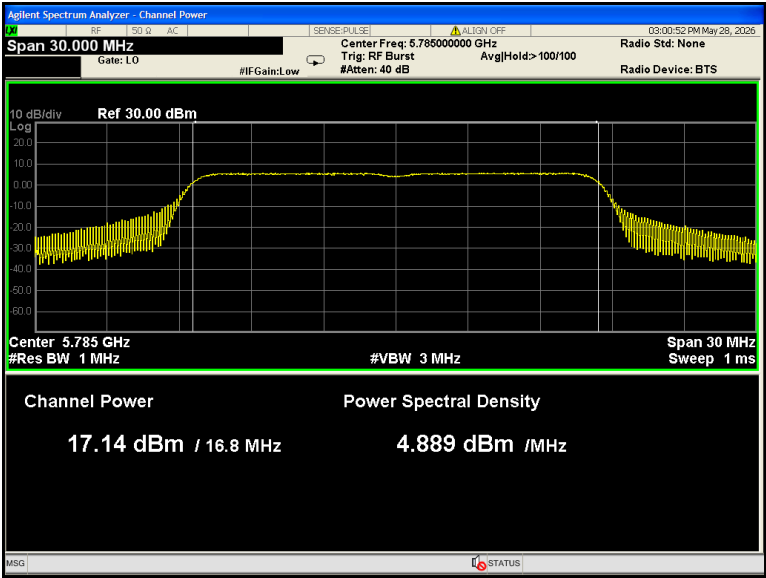
802.11ax(HE40) U-NII-1 High channel



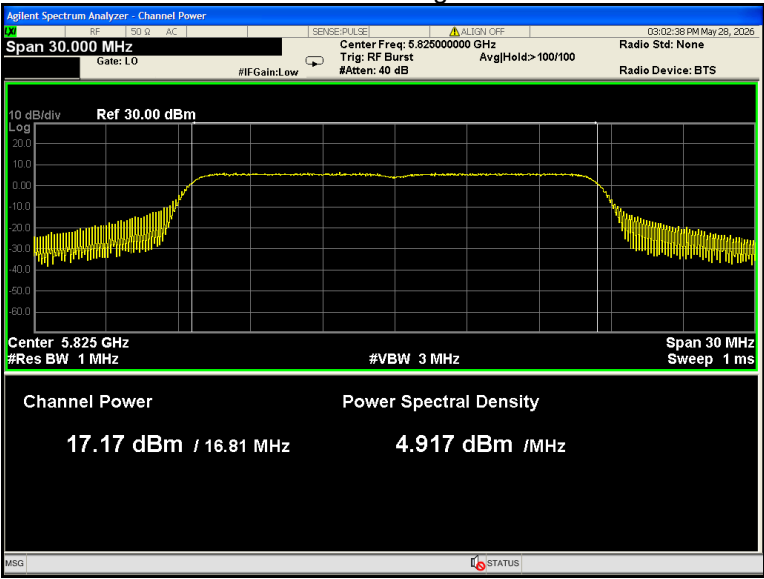
802.11a U-NII-3 Low channel



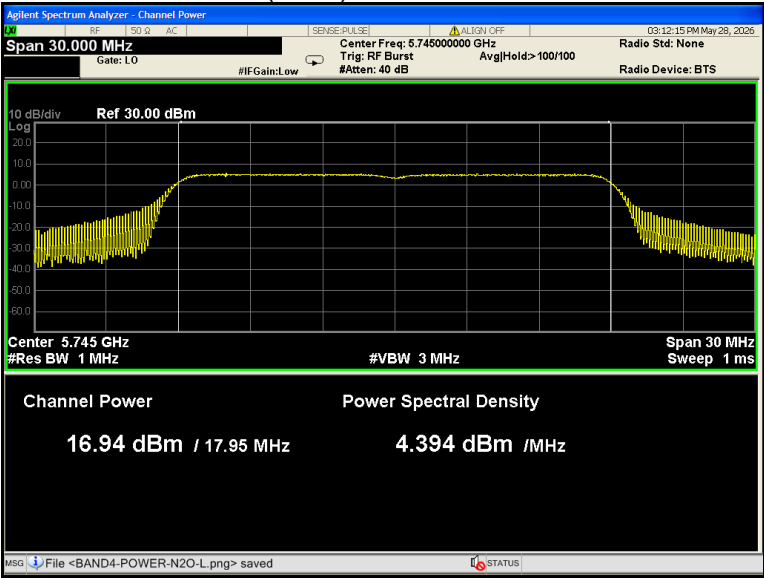
802.11a U-NII-3 Middle channel



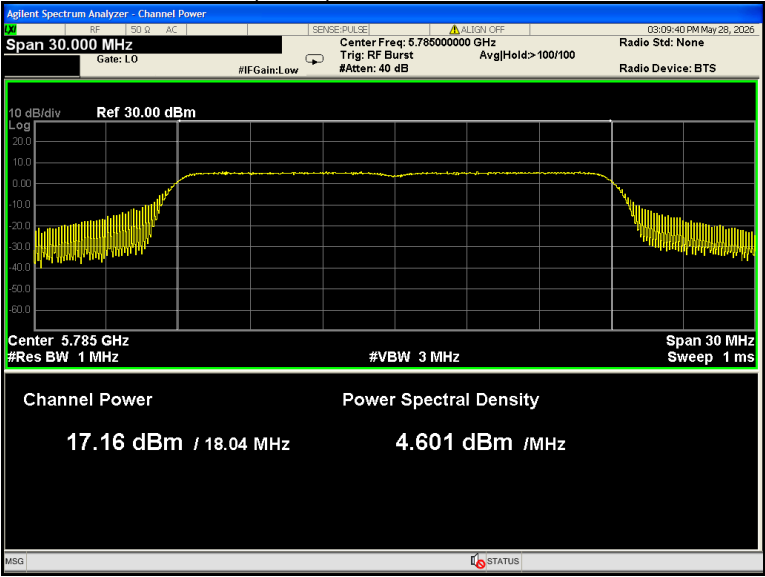
802.11a U-NII-3 High channel



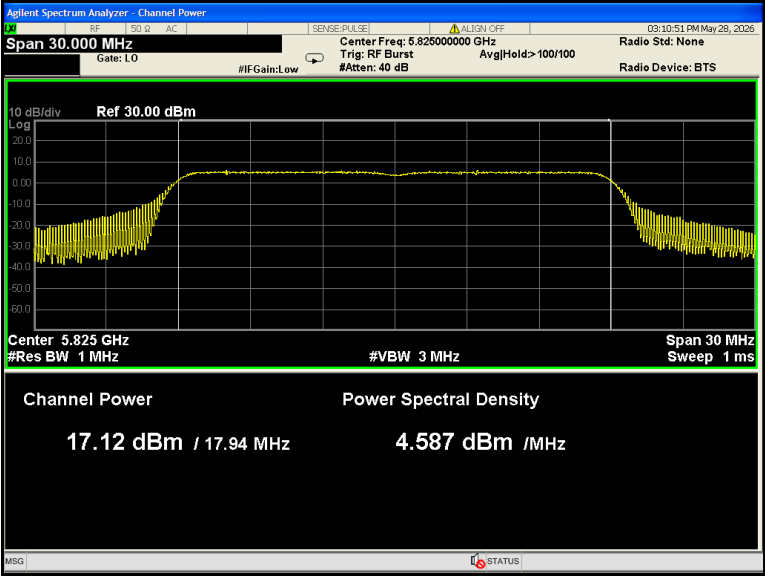
802.11n(HT20) U-NII-3 Low channel



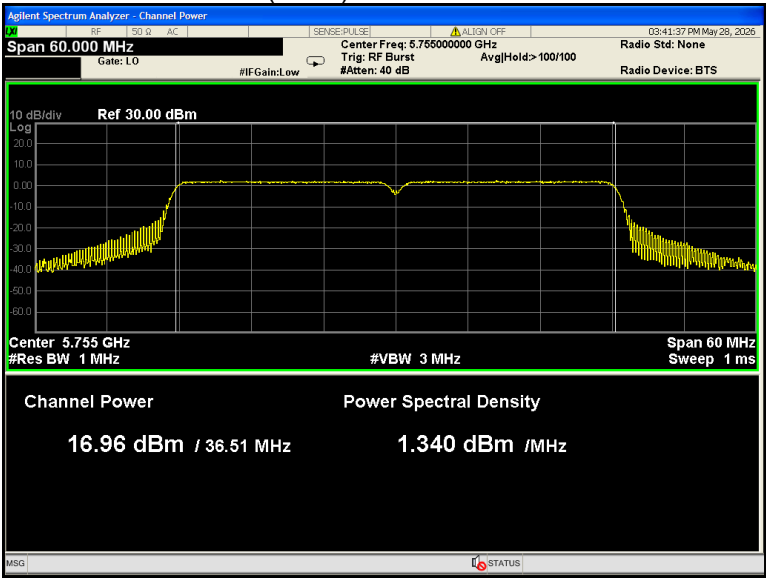
802.11n(HT20) U-NII-3 Middle channel



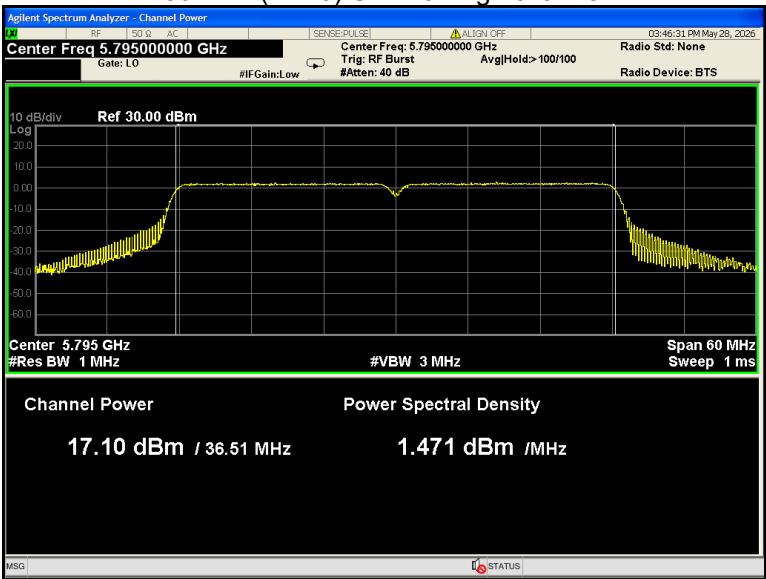
802.11n(HT20) U-NII-3 High channel



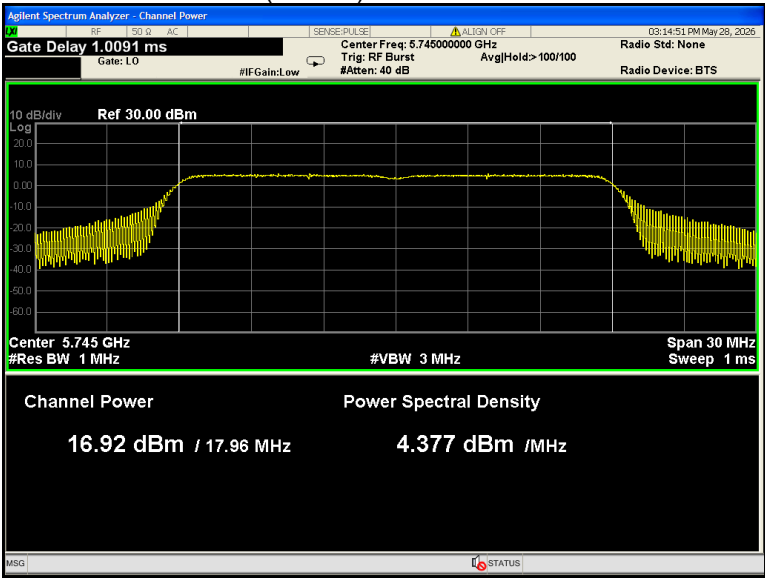
802.11n(HT40) U-NII-3 Low channel



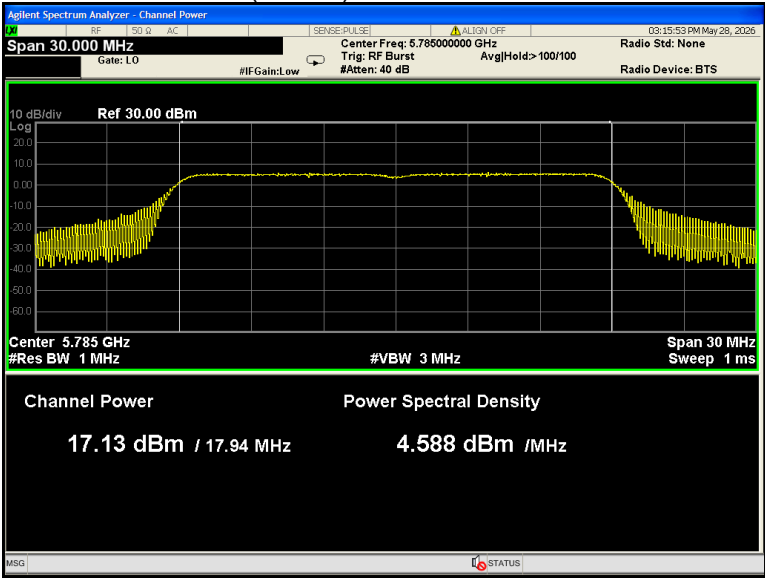
802.11n(HT40) U-NII-3 High channel



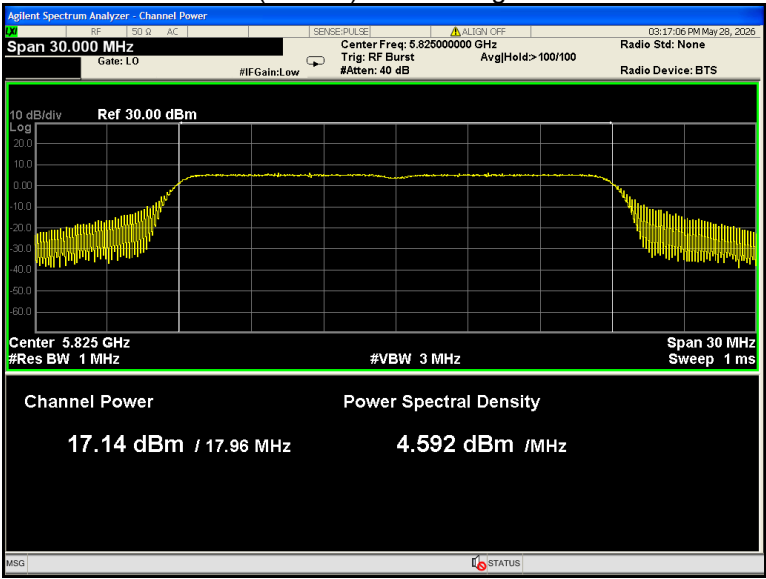
802.11ac(VHT20) U-NII-3 Low channel



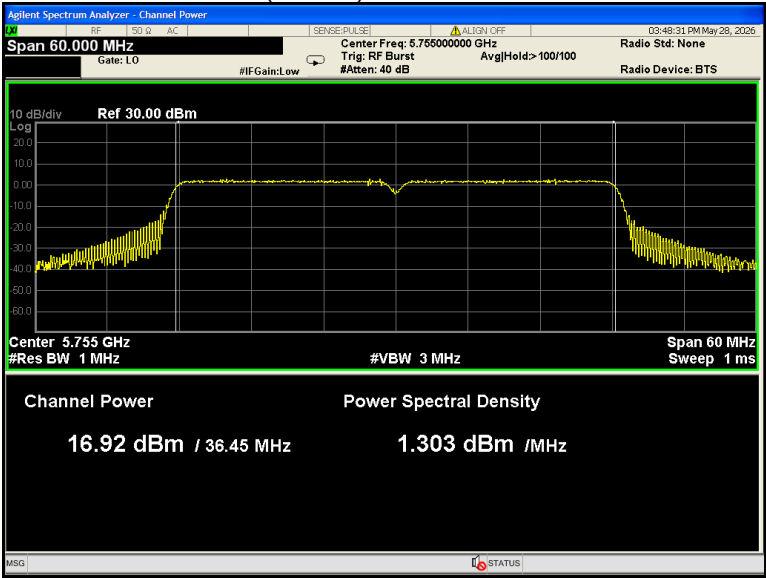
802.11ac(VHT20) U-NII-3 Middle channel



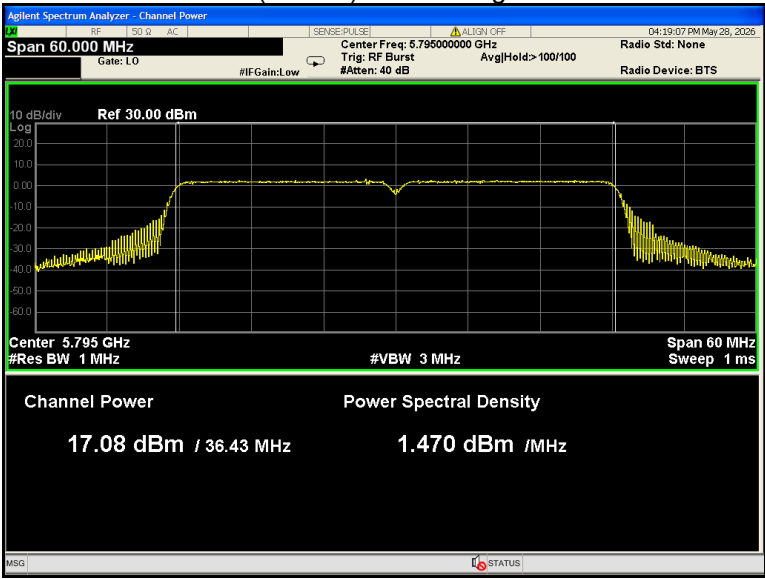
802.11ac(VHT20) U-NII-3 High channel



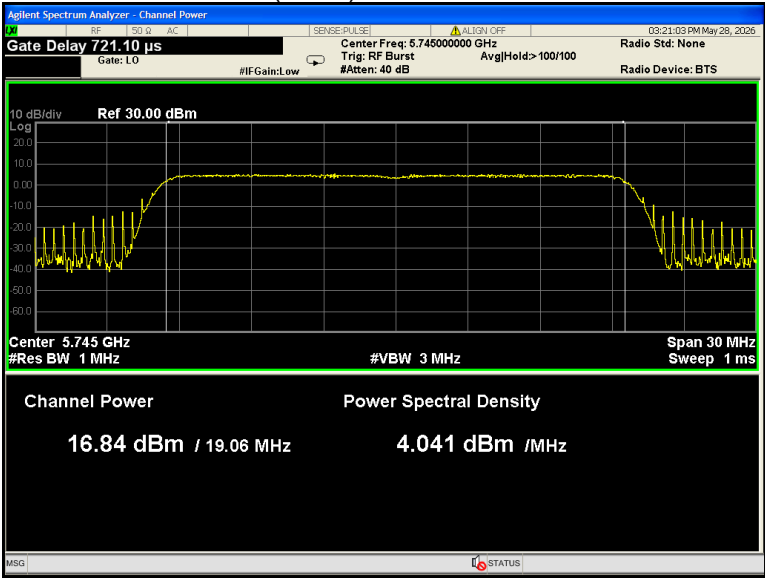
802.11ac(VHT40) U-NII-3 Low channel



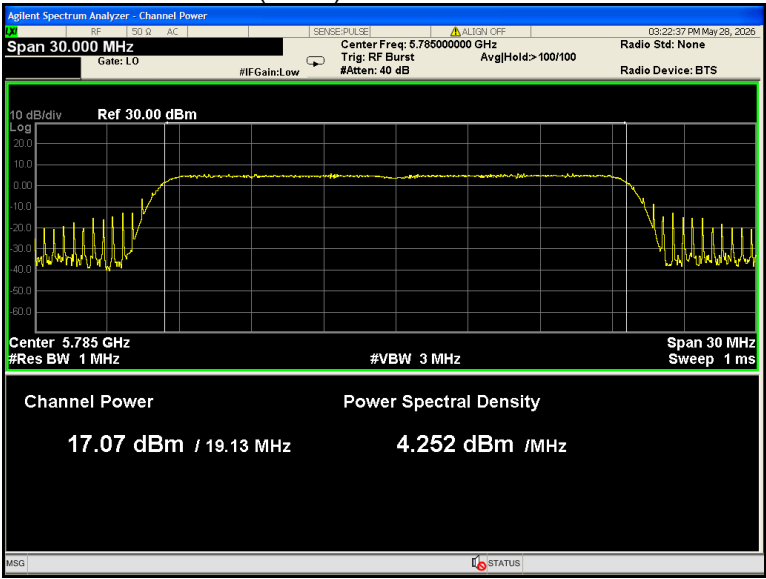
802.11ac(VHT40) U-NII-3 High channel



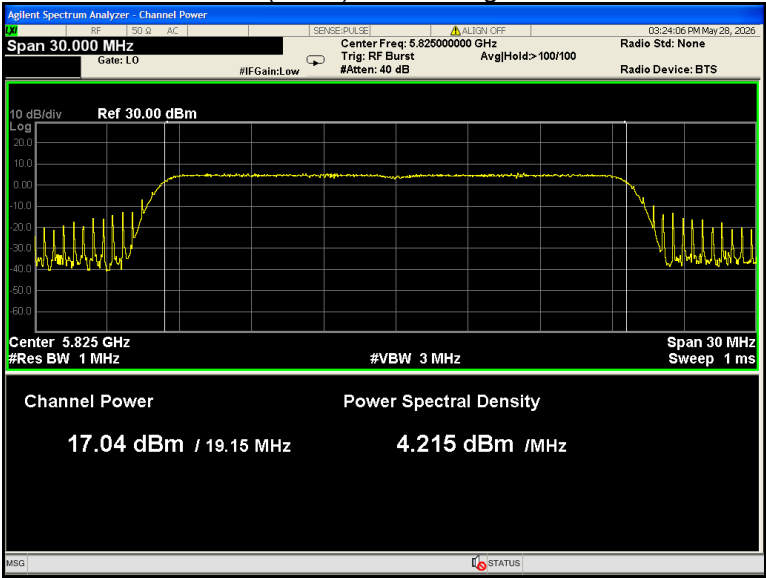
802.11ax(HE20) U-NII-3 Low channel



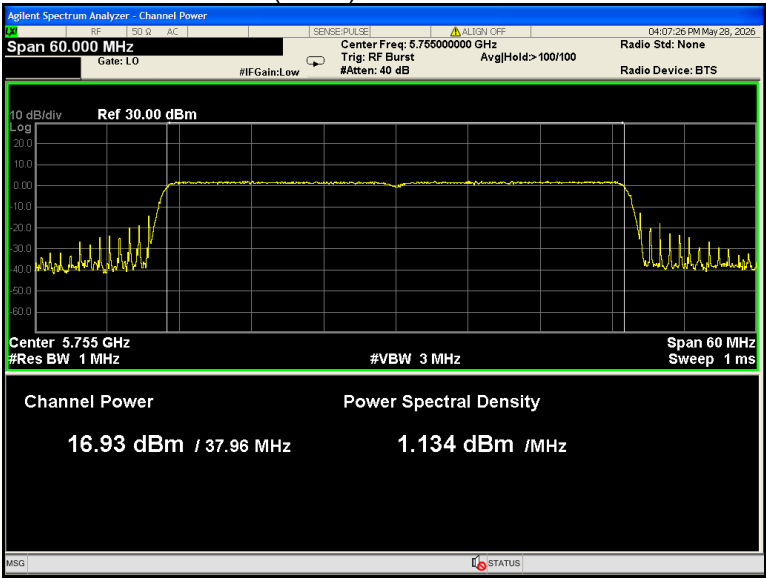
802.11ax(HE20) U-NII-3 Middle channel



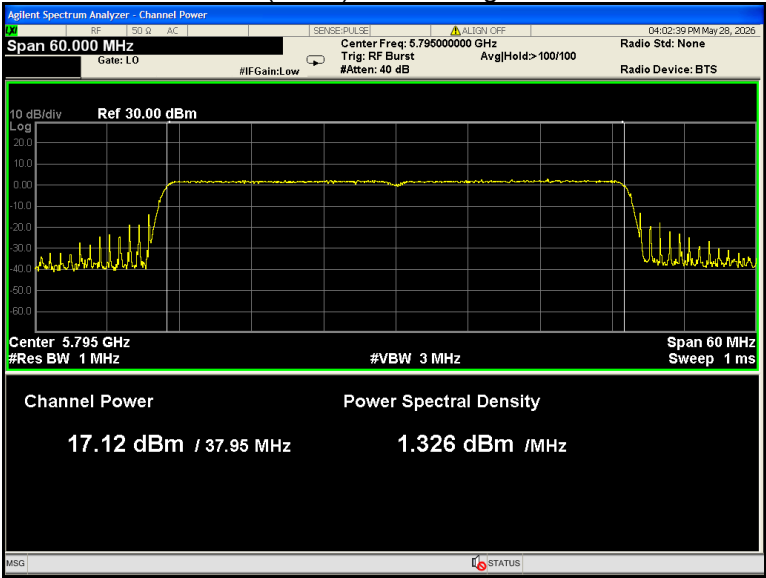
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



13 Power Spectral Density

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a)
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 ANSI C63.10-2020
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 power spectral density shall not exceed 17 dBm in any 1 megahertz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. For the band 5.725-5.850 GHz The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.
Test Result:	PASS

13.1 Test Procedure

- Create an average power spectrum for the EUT operating mode being tested by following the instructions in 12.4.2 for measuring maximum conducted output power using a spectrum analyzer that is, select the appropriate test method (SA-1, SA-2, SA-3, or their respective alternatives) and apply it up to, but not including, the step labeled, "Compute power....".
- Use the peak search function on the instrument to find the peak of the spectrum.

13.2 Test Result

Note: the method used in this report is Method SA-1.

Band	Operation mode	Channel	Measurements (dBm/MHz)	Limit
U-NII-1	802.11a	Low	2.146	11dBm / MHz
		Middle	2.664	
		High	3.887	
	802.11n(HT20)	Low	1.663	
		Middle	2.524	
		High	3.700	
	802.11n(HT40)	Low	-0.648	
		Middle	/	
		High	0.437	
	802.11ac(VHT20)	Low	1.821	
		Middle	3.071	
		High	3.828	
	802.11ac(VHT40)	Low	-0.157	
		Middle	/	
		High	1.076	
	802.11ax(HE20)	Low	1.635	
		Middle	2.527	
		High	3.715	
	802.11ax(HE40)	Low	-0.773	
		Middle	/	
		High	0.213	

Band	Operation mode	Channel	Measurements (dBm/MHz)	Power Spectral Density (dBm/500kHz)	Limit
U-NII-3	802.11a	Low	5.129	2.119	30dBm / 500kHz
		Middle	5.692	2.682	
		High	4.936	1.926	
	802.11n(HT20)	Low	4.461	1.451	
		Middle	4.949	1.939	
		High	4.701	1.691	
	802.11n(HT40)	Low	1.682	-1.328	
		Middle	/	/	
		High	2.320	-0.69	
	802.11ac(VHT20)	Low	5.259	2.249	
		Middle	5.280	2.27	
		High	5.274	2.264	
	802.11ac(VHT40)	Low	2.425	-0.585	
		Middle	/	/	
		High	2.307	-0.703	
	802.11ax(HE20)	Low	4.255	1.245	
		Middle	5.150	2.14	
		High	5.142	2.132	
	802.11ax(HE40)	Low	2.263	-0.747	
		Middle	/	/	
		High	2.221	-0.789	

Note:

When $RBW_{measured} > RBW_{REF}$ the result for broadband emissions should be normalized to the bandwidth

Ratio according to the formula:

$$B = A + 10\log(RBW_{ref} / RBW_{MEASURED})$$

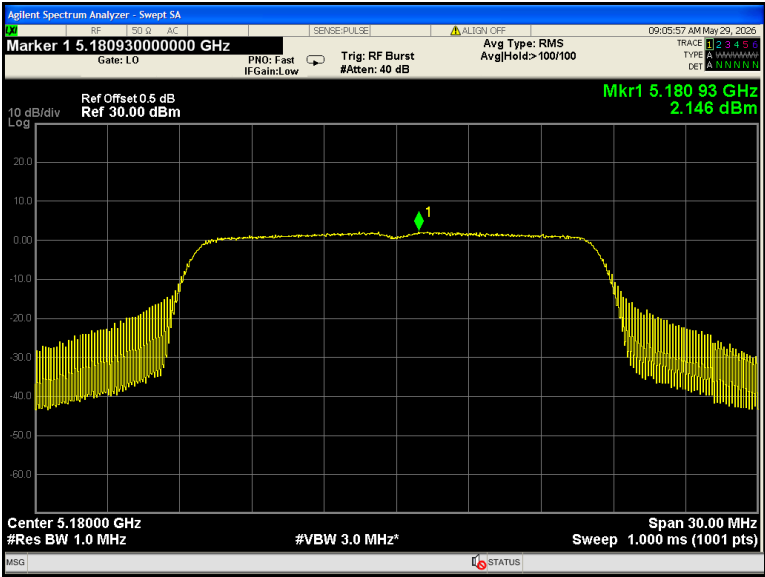
A is the measured value at the wider measurement bandwidth $RBW_{measured}$;

B is the orresponding value at RBW_{REF} .

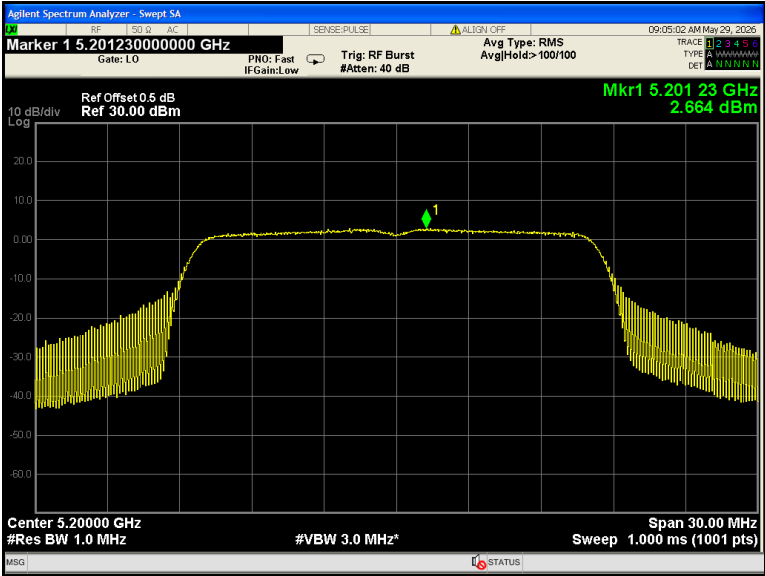
Power Spectral density = Measurements + $10 \cdot \log(500\text{kHz}/1000\text{kHz})$ = Measurements -3.01.

Test result plots shown as follows:

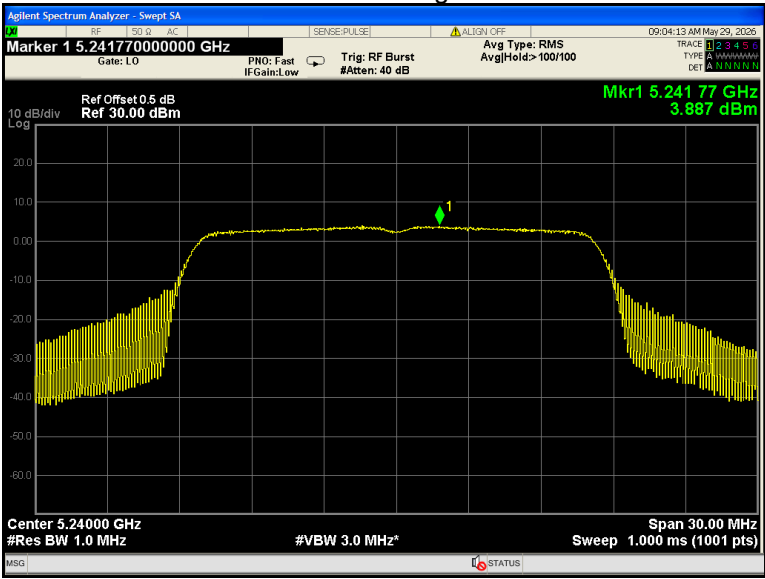
802.11a U-NII-1 Low channel



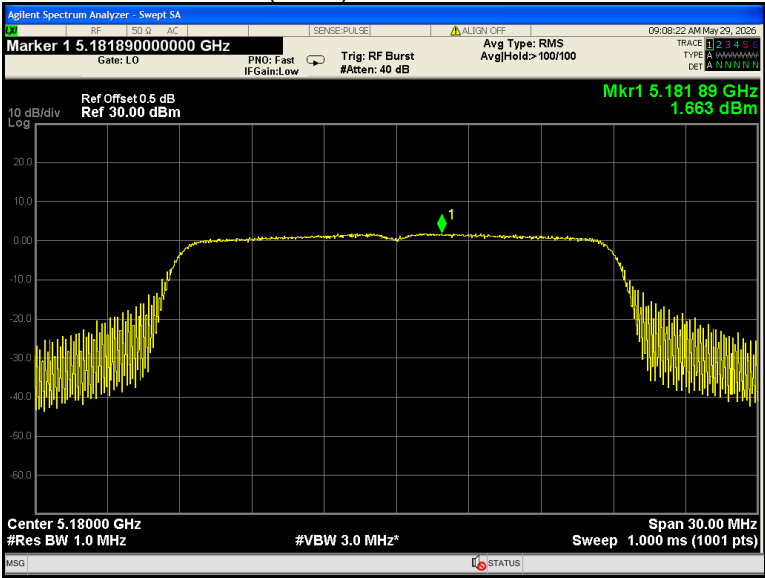
802.11a U-NII-1 Middle channel



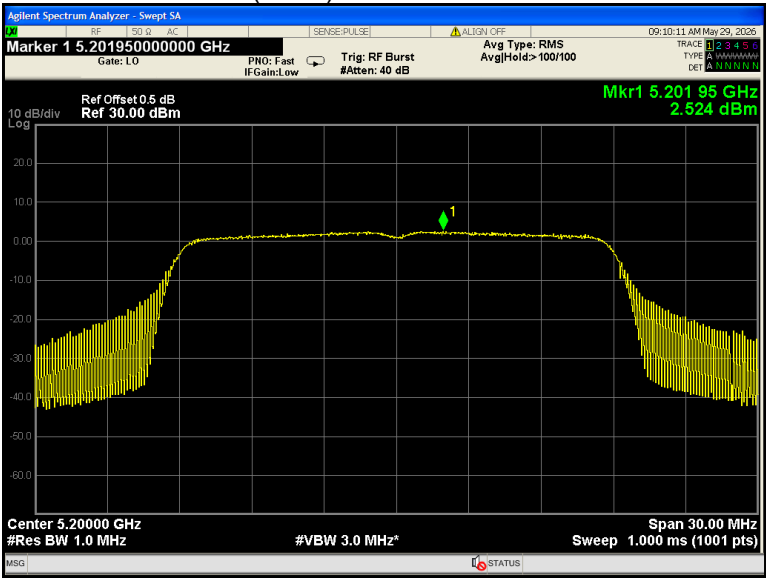
802.11a U-NII-1 High channel



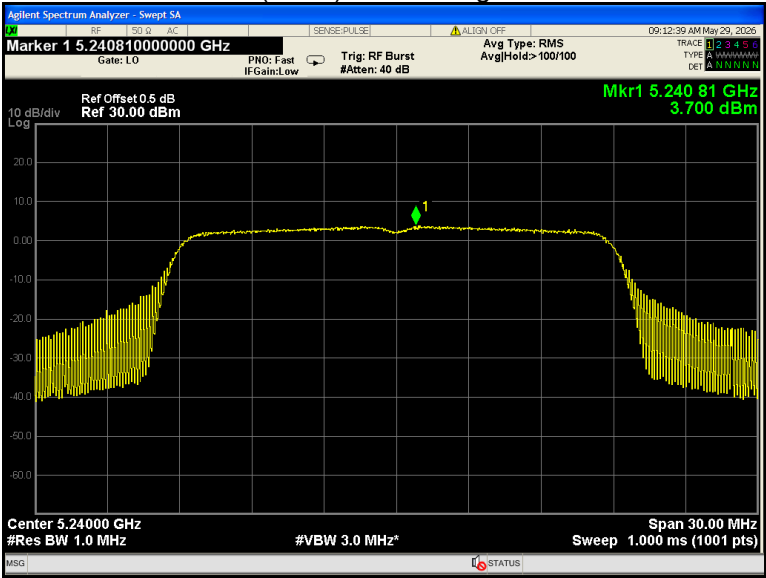
802.11n(HT20) U-NII-1 Low channel



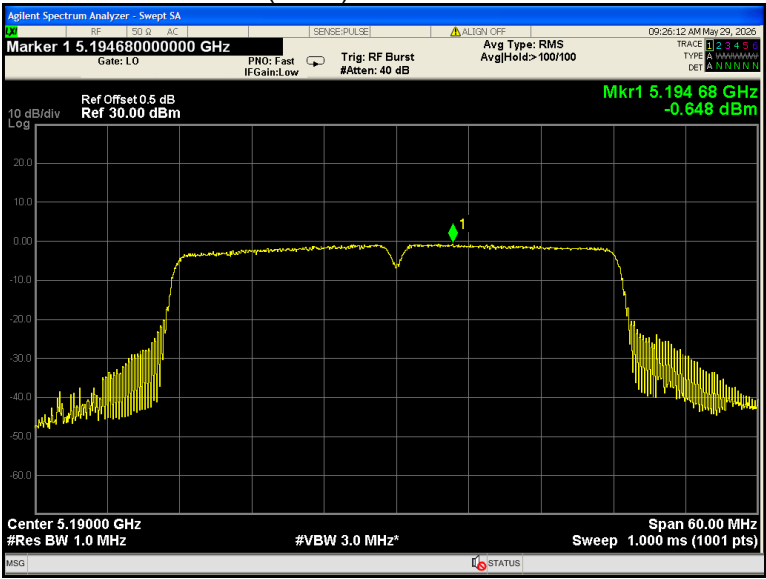
802.11n(HT20) U-NII-1 Middle channel



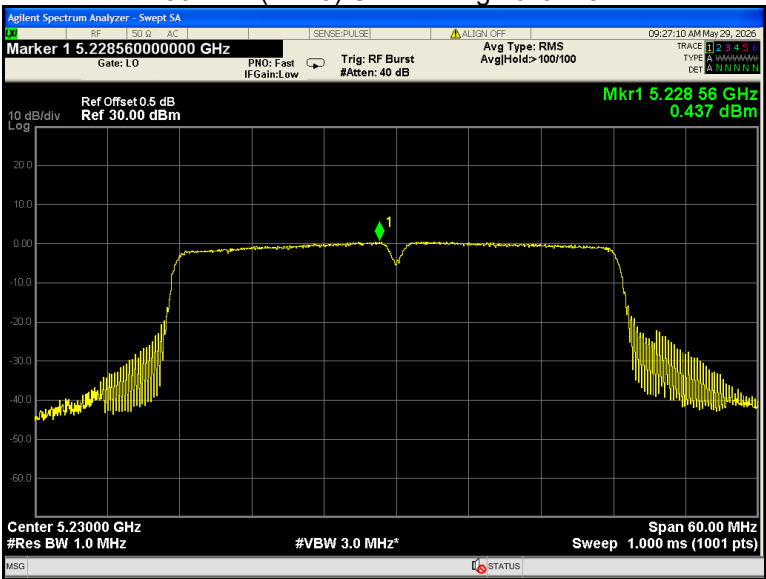
802.11n(HT20) U-NII-1 High channel



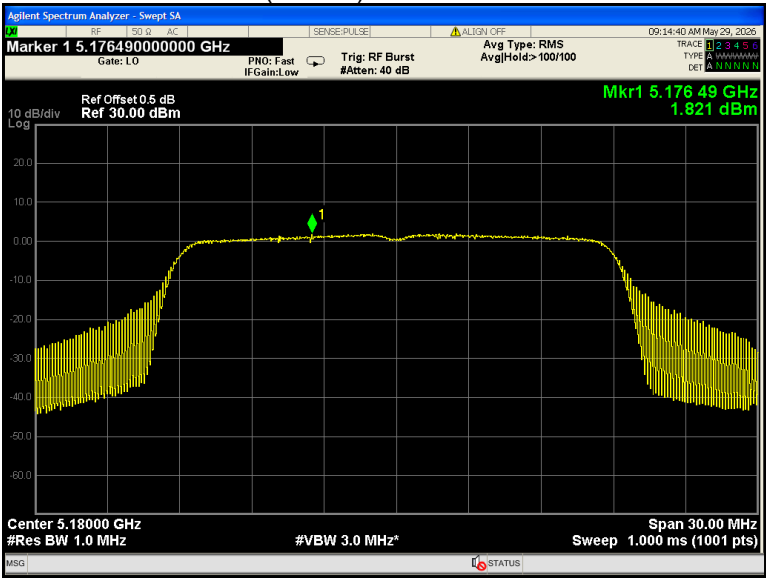
802.11n(HT40) U-NII-1 Low channel



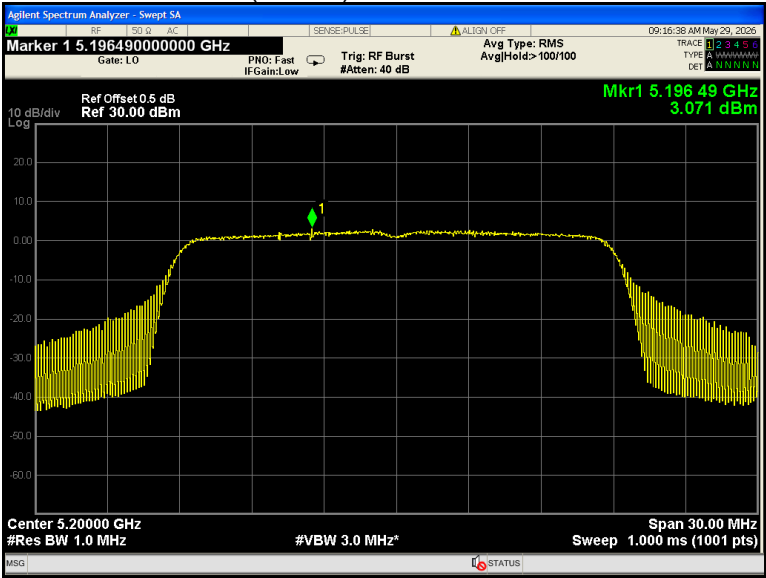
802.11n(HT40) U-NII-1 High channel



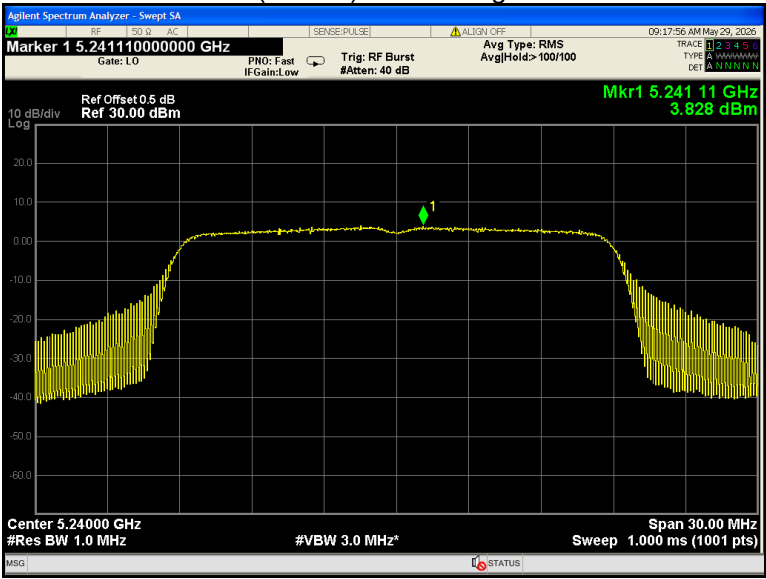
802.11ac(VHT20) U-NII-1 Low channel



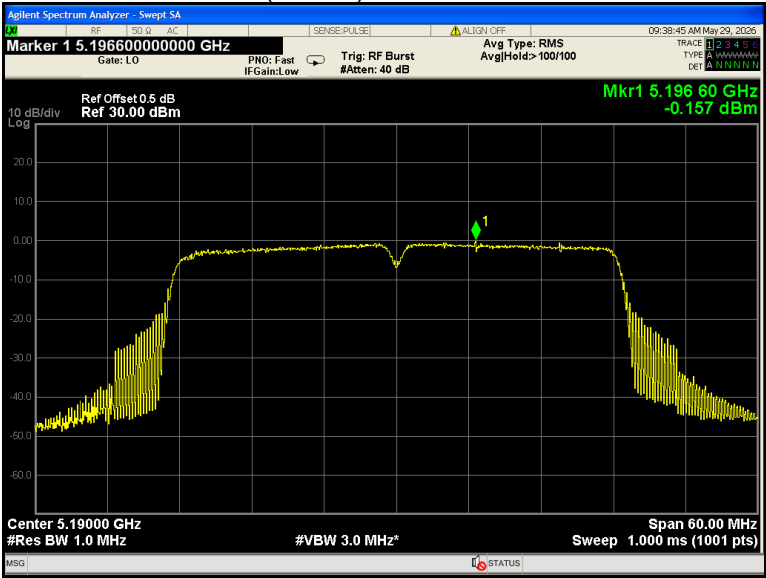
802.11ac(VHT20) U-NII-1 Middle channel



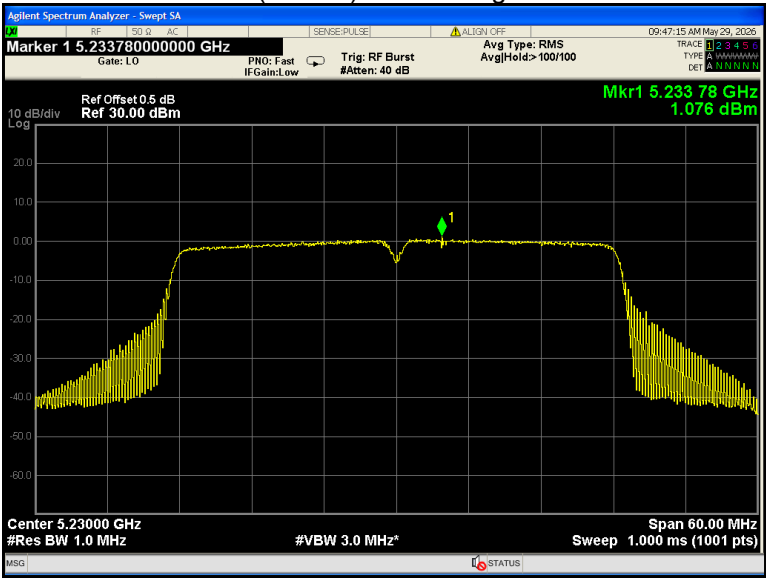
802.11ac(VHT20) U-NII-1 High channel



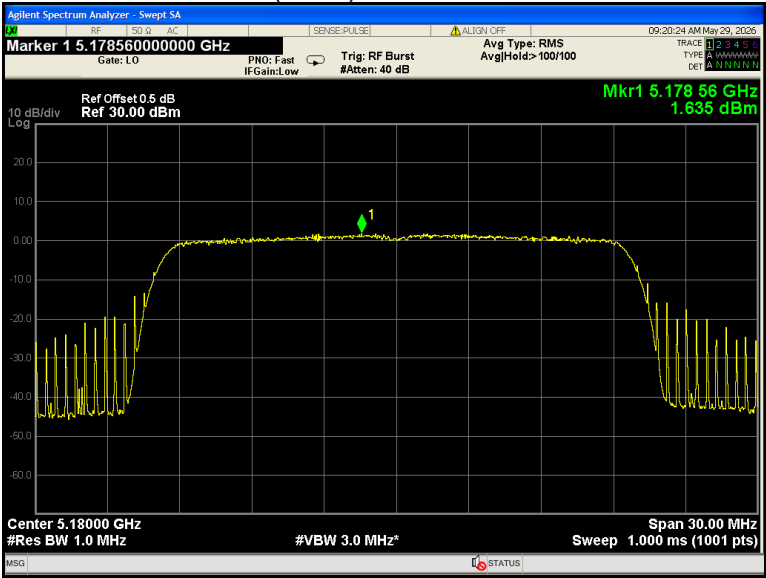
802.11ac(VHT40) U-NII-1 Low channel



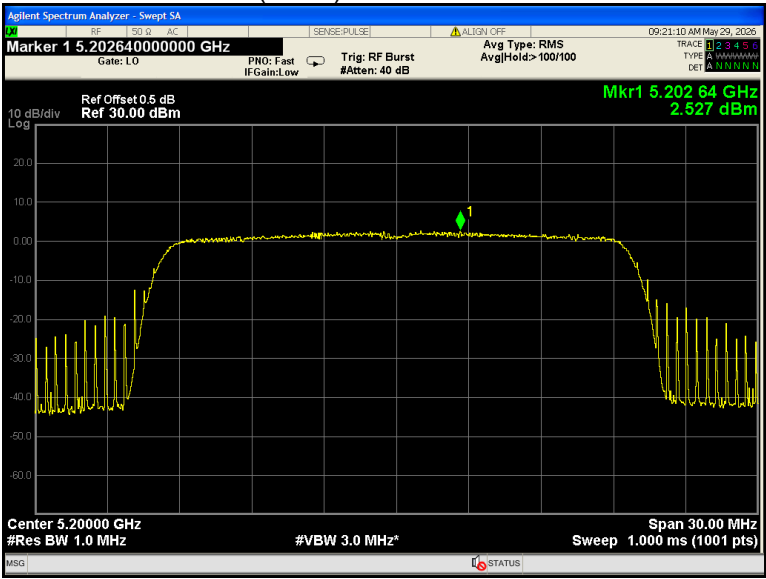
802.11ac(VHT40) U-NII-1 High channel



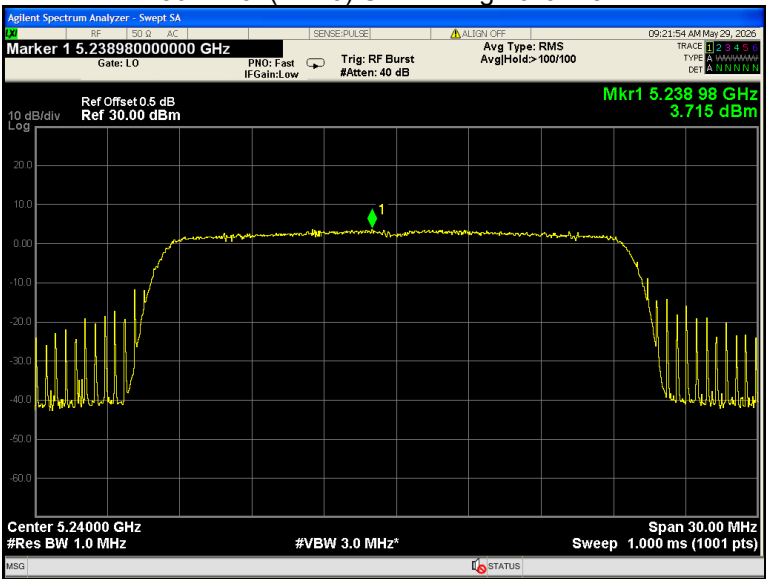
802.11ax(HE20) U-NII-1 Low channel



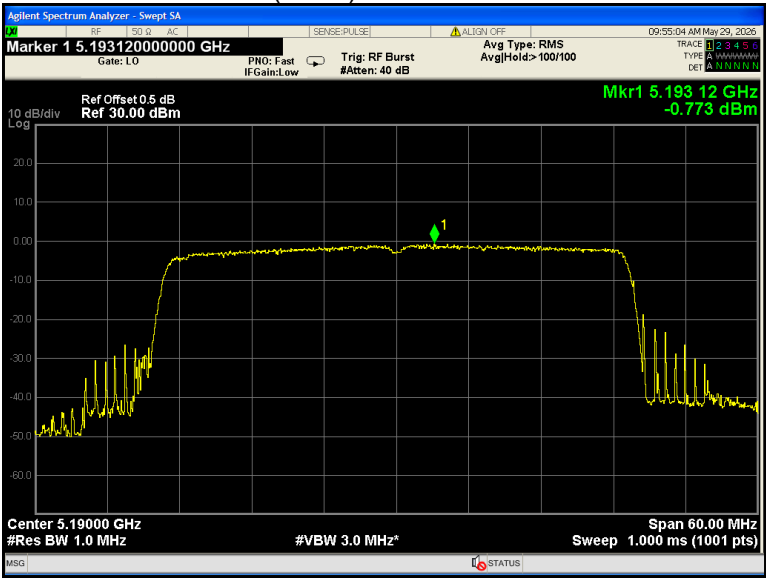
802.11ax(HE20) U-NII-1 Middle channel



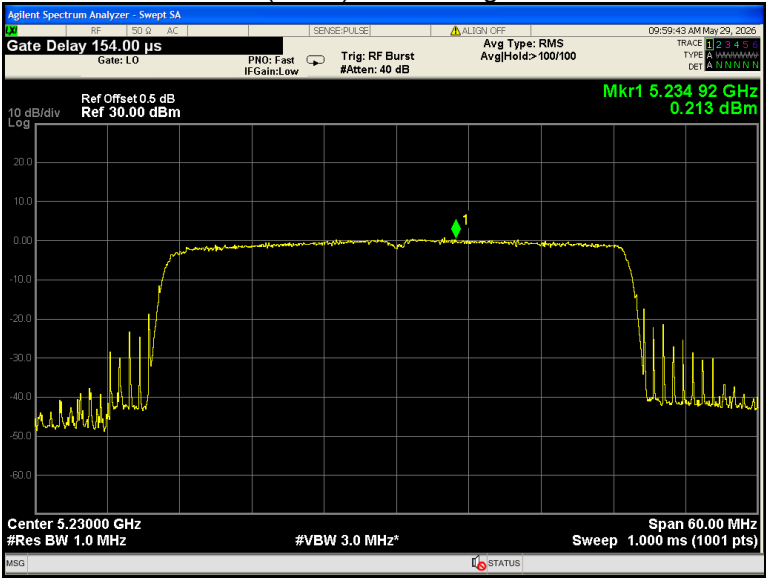
802.11ax(HE20) U-NII-1 High channel



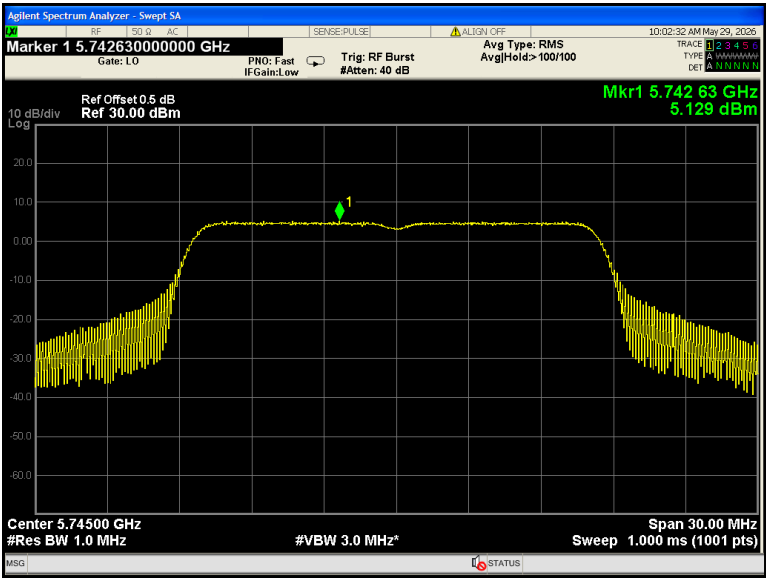
802.11ax(HE40) U-NII-1 Low channel



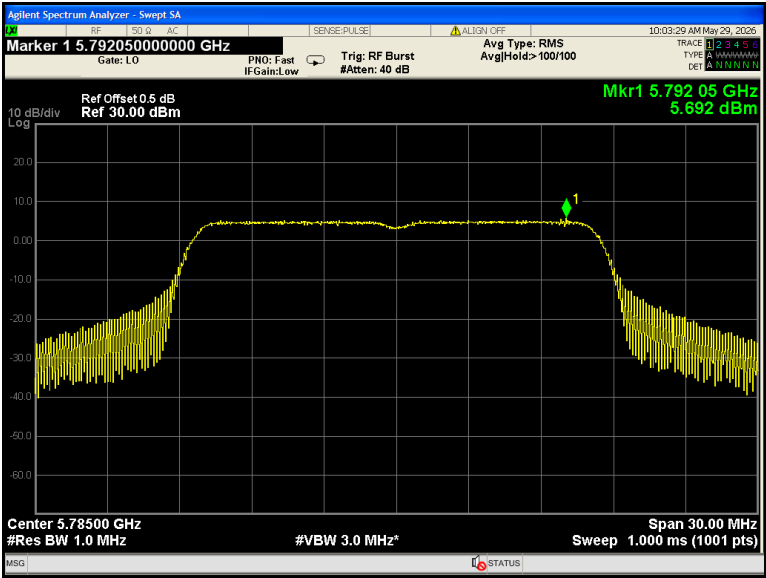
802.11ax(HE40) U-NII-1 High channel



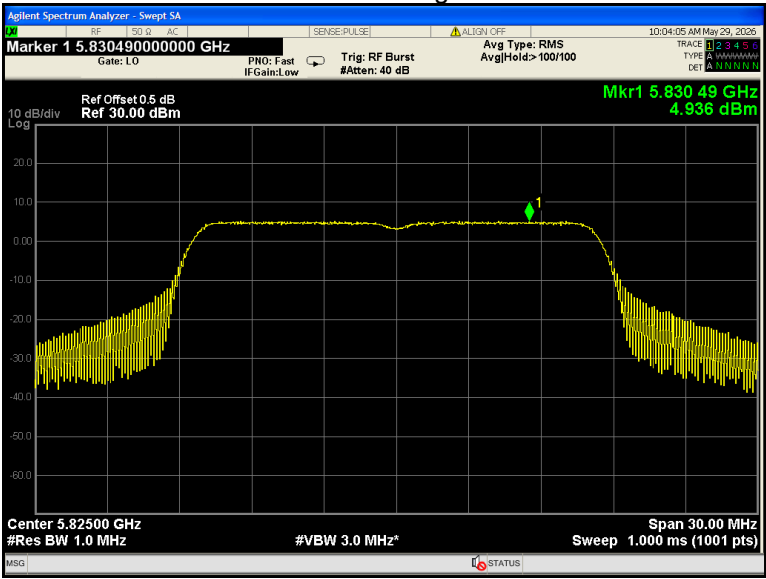
802.11a U-NII-3 Low channel



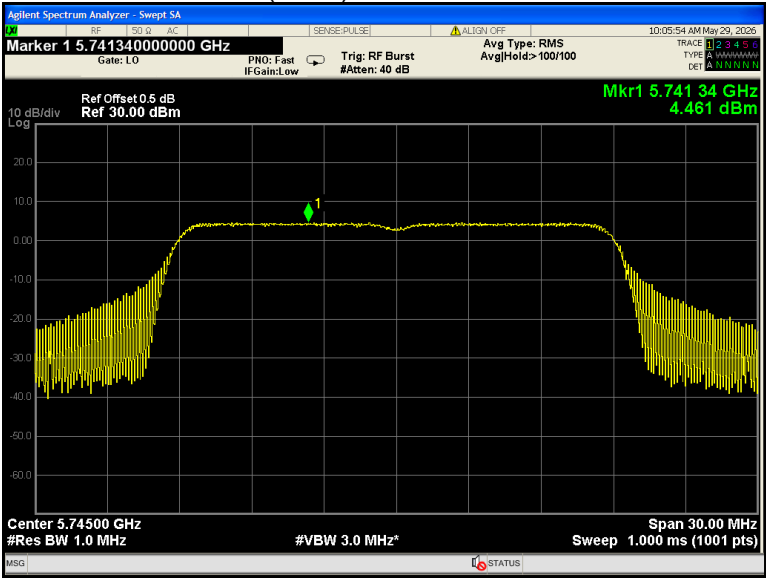
802.11a U-NII-3 Middle channel



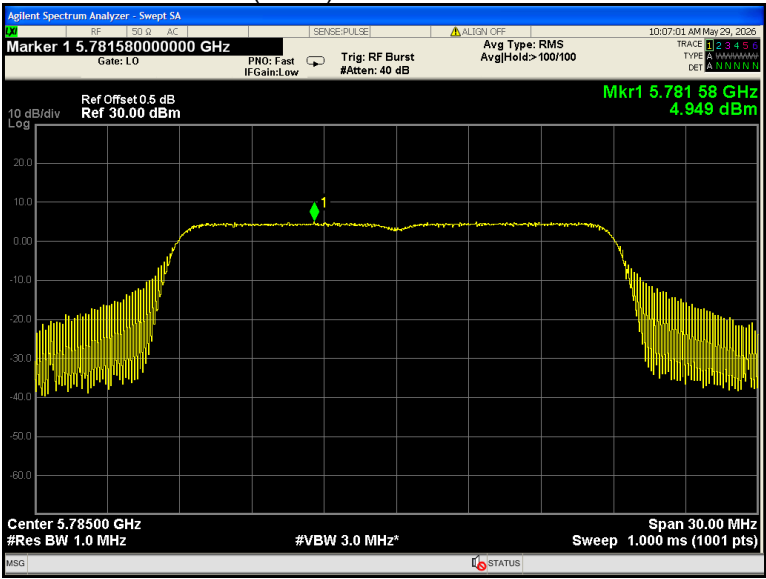
802.11a U-NII-3 High channel



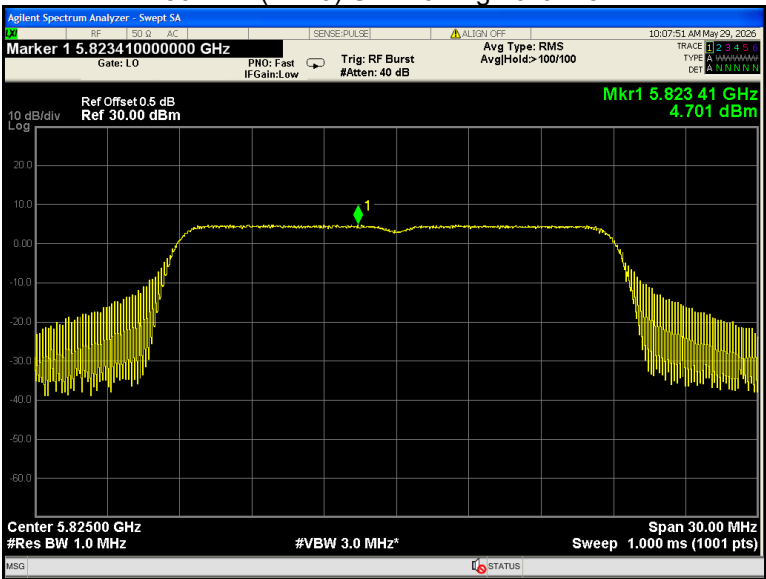
802.11n(HT20) U-NII-3 Low channel



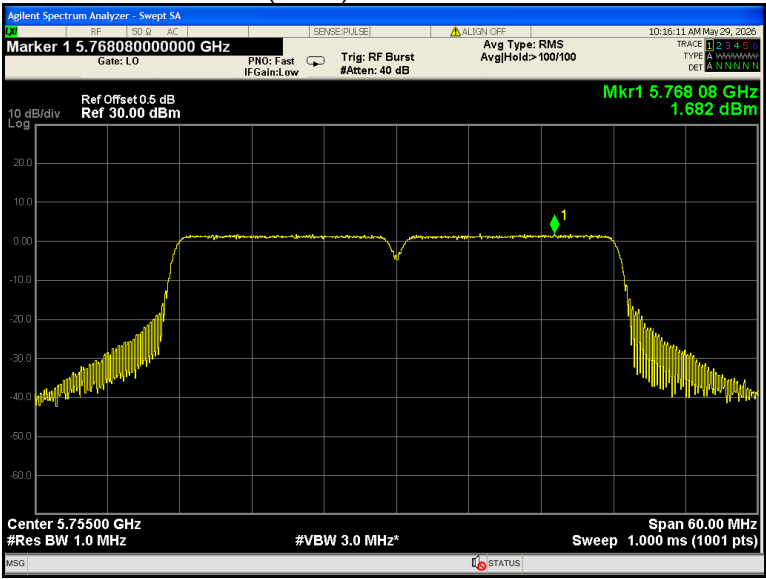
802.11n(HT20) U-NII-3 Middle channel



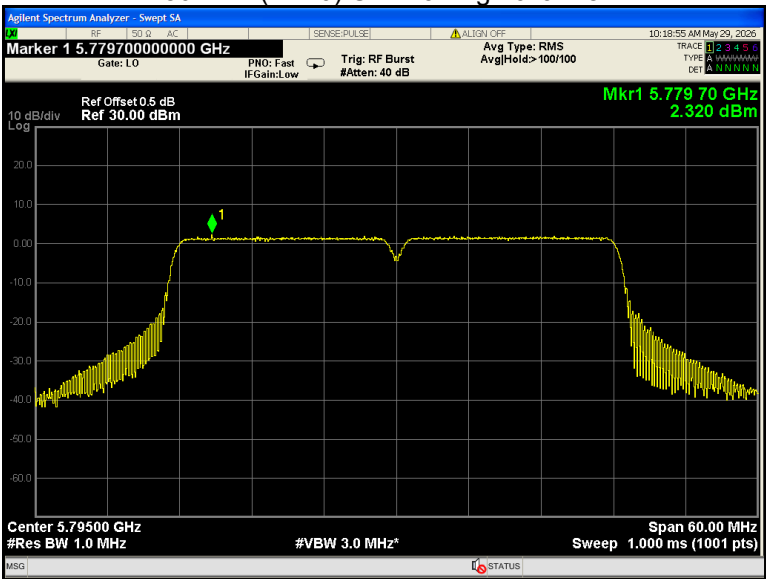
802.11n(HT20) U-NII-3 High channel



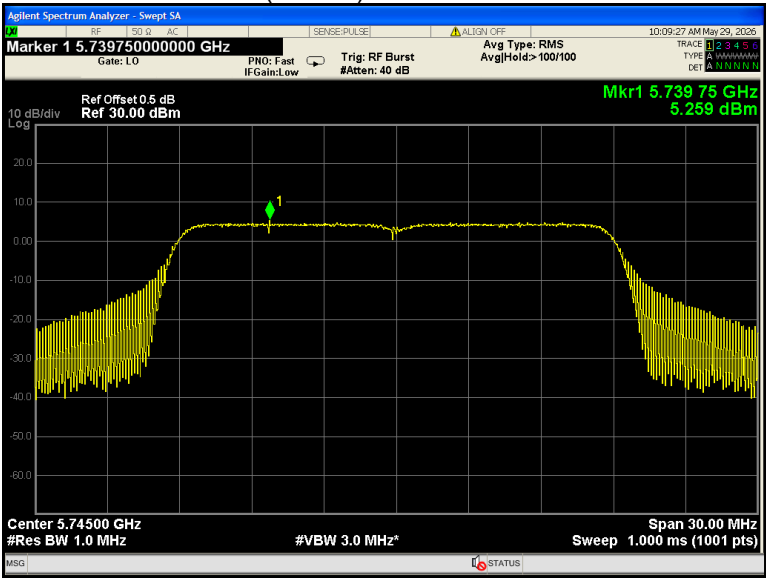
802.11n(HT40) U-NII-3 Low channel



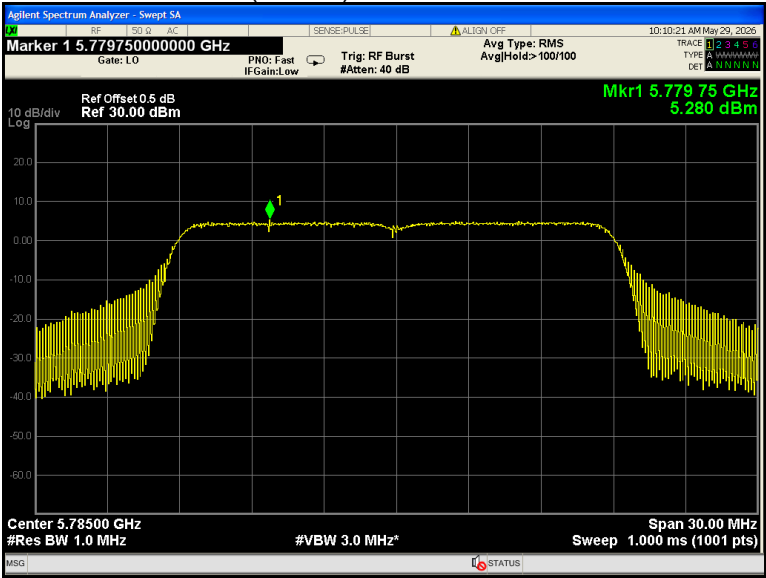
802.11n(HT40) U-NII-3 High channel



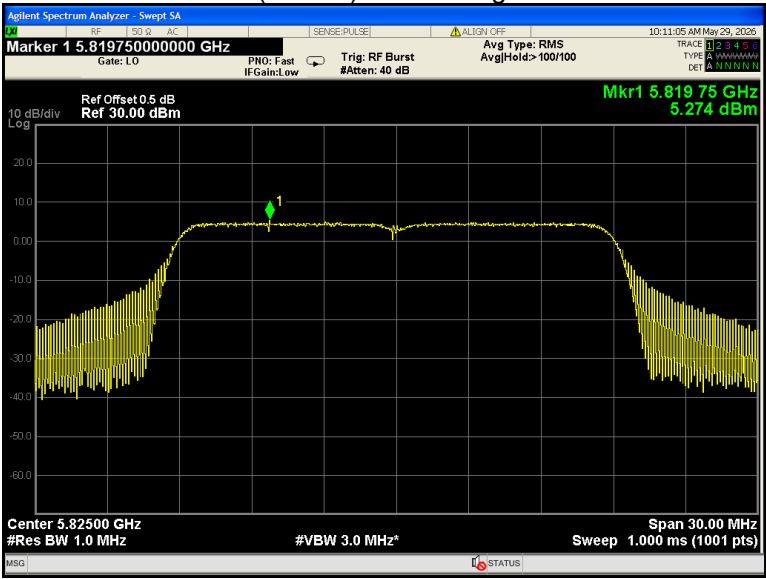
802.11ac(VHT20) U-NII-3 Low channel



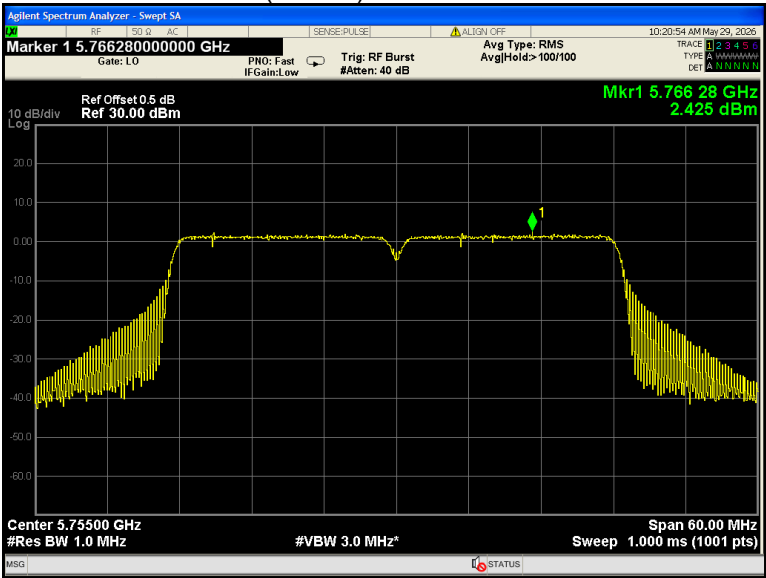
802.11ac(VHT20) U-NII-3 Middle channel



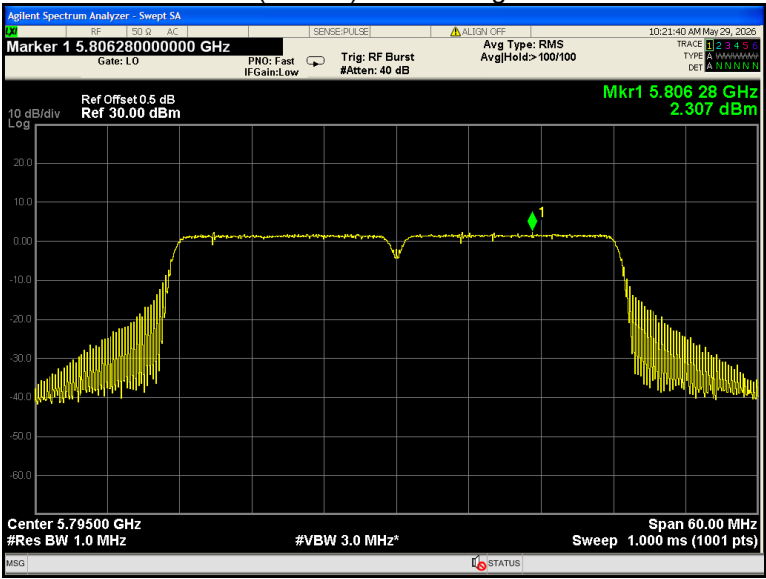
802.11ac(VHT20) U-NII-3 High channel



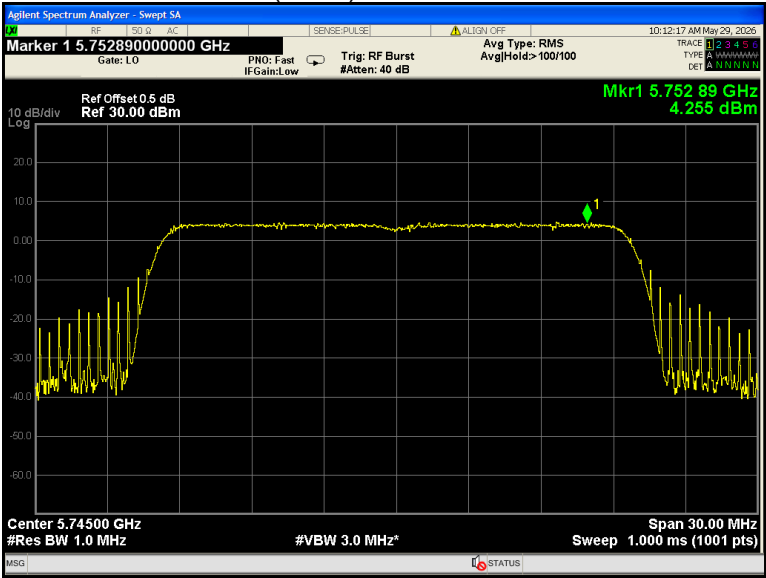
802.11ac(VHT40) U-NII-3 Low channel



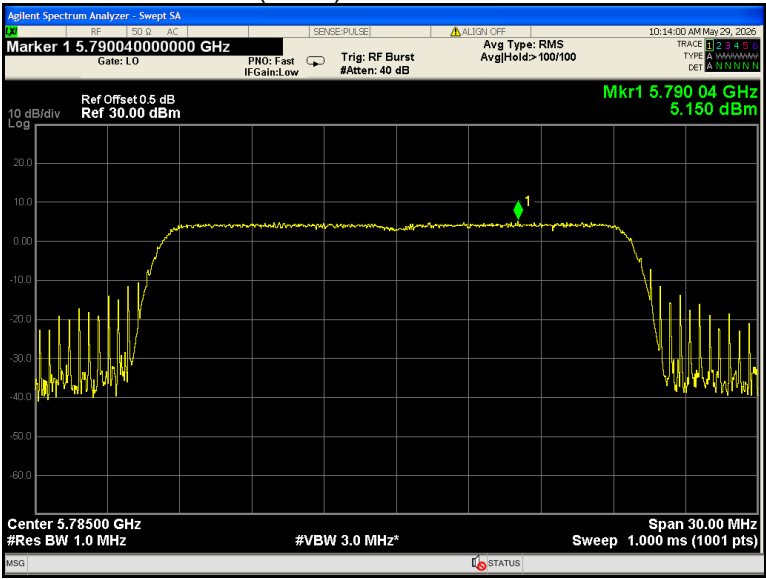
802.11ac(VHT40) U-NII-3 High channel



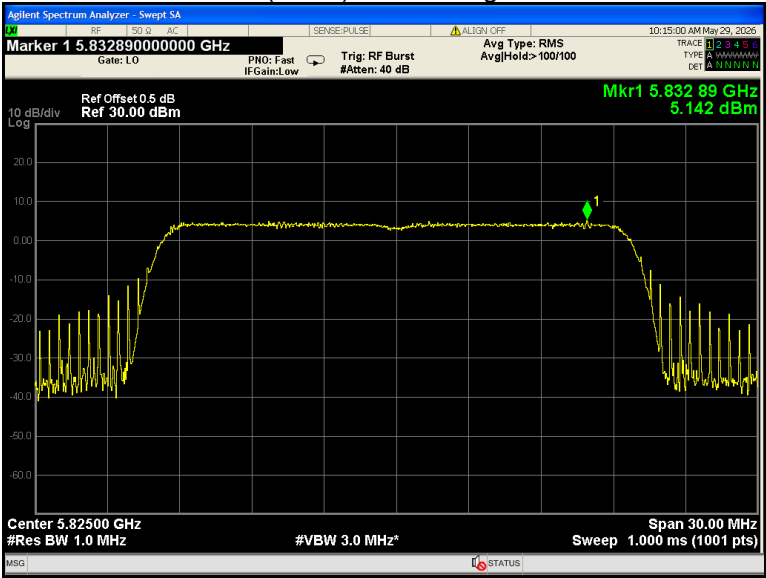
802.11ax(HE20) U-NII-3 Low channel



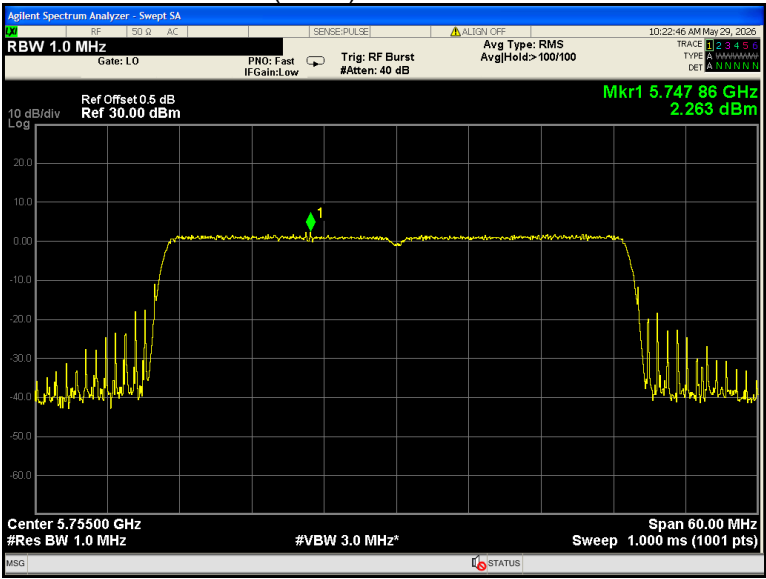
802.11ax(HE20) U-NII-3 Middle channel



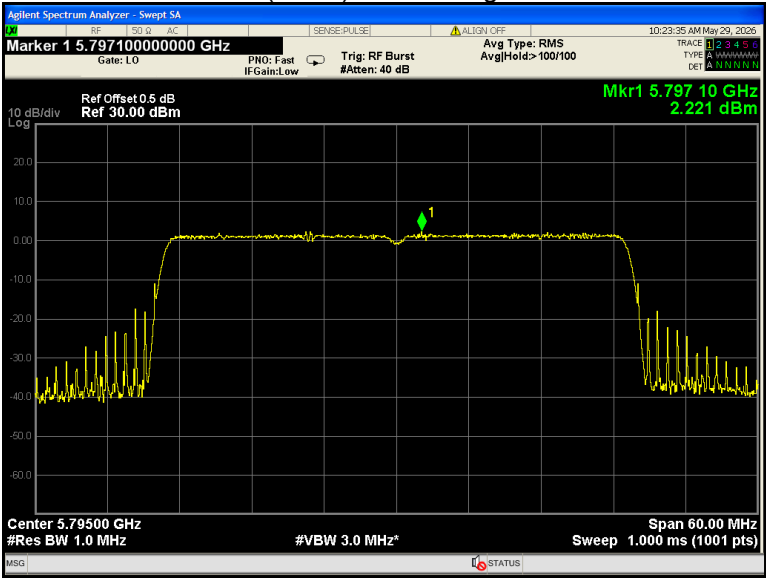
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



14 Frequency Stability

Test Requirement:	FCC 47CFR Part 15 Section 15.407(g)
Test Method:	ANSI C63.10-2020
Test Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual or 20ppm.
Test Result:	PASS

14.1 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
EUT have transmitted absence of unmodulation signal and fixed channelise. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
2. Extreme temperature rule is $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

14.2 Test Result

U-NII-1 Test Frequency:5180MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	3.7	0.0074	1.43	20
40		0.0141	2.72	20
30		0.0021	0.40	20
20		0.0090	1.74	20
10		0.0160	3.08	20
0		0.0114	2.21	20
-10		0.0124	2.40	20
-20		0.0047	0.90	20
20	3.33	0.0091	1.75	20
20	4.07	0.0151	2.91	20

U-NII-3 Test Frequency:5785MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	3.7	0.0118	2.04	20
40		0.0074	1.27	20
30		0.0129	2.22	20
20		0.0050	0.86	20
10		0.0120	2.08	20
0		0.0134	2.31	20
-10		0.0011	0.20	20
-20		0.0077	1.33	20
20	3.33	0.0088	1.52	20
20	4.07	0.0097	1.68	20

15 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

This product has a FPC Antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

16 RF Exposure

Remark: Please refer to RF Exposure Report: WTH26D05132917W006.

17 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-RS1-C01-Photos.

=====End of Report=====