RF MEASUREMENT REPORT

FCC ID:	2BH7FXGB835V
Applicant:	TP-Link Systems Inc.
Product:	BE19000 Tri-Band Wi-Fi 7 XGS-PON Router
Model No.:	XGB835v
Brand Name:	tp-link
FCC Classification:	15E 6GHz Low Power Indoor Access Point (6ID)
FCC Rule Part(s):	Part 15 Subpart E (Section 15.407)
Result:	Complies
Received Date:	2025-06-26
Test Date:	2025-07-01 ~ 2025-09-08

Reviewed By: Kevin Guo

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033. Test results reported herein relate only to the item(s) tested.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1048067-U203	V01	Initial Report	2025-09-19	Valid

CONTENTS

Description Page

1. General Information 6

1.1. Applicant 6
1.2. Manufacturer 6
1.3. Testing Facility 6
1.4. Product Information 7
1.5. Radio Specification under Test 7
1.6. Working Frequencies 8
1.7. Antenna Details 10

2. Test Configuration 11

2.1. Test Mode 11
2.2. Test System Connection Diagram 12
2.3. Test Software 12
2.4. Applied Standards 13
2.5. Test Environment Condition 13

3. Antenna Requirements 14

4. Measuring Instrument 15

5. Decision Rules and Measurement Uncertainty 16

5.1. Decision Rules 16
5.2. Measurement Uncertainty 16

6. Test Result 17

6.1. Summary 17
6.2. 26 dB Bandwidth Measurement 18
6.2.1. Test Limit 18
6.2.2. Test Procedure 18
6.2.3. Test Setting 18
6.2.4. Test Setup 19
6.2.5. Test Result 19
6.3. Output Power Measurement 20
6.3.1. Test Limit 20
6.3.2. Test Procedure 20
6.3.3. Test Setting 20
6.3.4. Test Setup 20
6.3.5. Test Result 20
6.4. Power Spectral Density Measurement 21
6.4.1. Test Limit 21

6.4.2. Test Procedure 21
6.4.3. Test Setting 21
6.4.4. Test Setup 21
6.4.5. Test Result 22
6.5. In-Band Emission Measurement 23
6.5.1. Test Limit 23
6.5.2. Test Procedure 23
6.5.3. Test Setting 23
6.5.4. Test Setup 24
6.5.5. Test Result 24
6.6. Frequency Stability Measurement 25
6.6.1. Test Limit 25
6.6.2. Test Procedure 25
6.6.3. Test Setup 25
6.6.4. Test Result 26
6.7. Contention Based Protocol Measurement 27
6.7.1. Test Limit 27
6.7.2. Test Procedure 27
6.7.3. Test Setting 27
6.7.4. Test Setup 28
6.7.5. Test Result 28
6.8. Radiated Spurious Emission Measurement 29
6.8.1. Test Limit 29
6.8.2. Test Procedure 29
6.8.3. Test Setting 30
6.8.4. Test Setup 32
6.8.5. Test Result 33
6.9. Radiated Restricted Band Edge Measurement 34
6.9.1. Test Limit 34
6.9.2. Test Procedure 36
6.9.3. Test Setting 36
6.9.4. Test Setup 37
6.9.5. Test Result 37
6.10. AC Conducted Emissions Measurement 38
6.10.1. Test Limit 38
6.10.2. Test Setup 38
6.10.3. Test Result 38
Appendix A – Test Result 39

A.1 Duty Cycle Test Result 39
A.2 26 dB Bandwidth Test Result 43
A.3 Output Power Test Result 83
A.4 Power Spectral Density Test Result 91
A.5 In-Band Emission Measurement 227
A.6 Contention Based Protocol Test Result 355
A.7 Radiated Spurious Emission Test Result 367
A.8 Radiated Restricted Band Edge Test Result 463
A.9 AC Conducted Emissions Test Result 543

Appendix B – Test Setup Photograph 551

Appendix C – EUT Photograph 552

1. General Information

1.1. Applicant

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

1.2. Manufacturer

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

1.3. Testing Facility

<table>
<tr><td>☒</td><td colspan="5">Test Site – MRT Suzhou Laboratory</td></tr>
<tr><td></td><td colspan="5">Laboratory Location (Suzhou - Wuzhong)
D8 Building, No.2 Tian’edang Rd., Wuzhong Economic Development Zone, Suzhou, China
Laboratory Location (Suzhou - SIP)
4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
Laboratory Location (Suzhou - Wujiang)
Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People’s Republic of China</td></tr>
<tr><td></td><td colspan="5">Laboratory Accreditations</td></tr>
<tr><td></td><td colspan="2">A2LA: 3628.01</td><td colspan="3">CNAS: L10551</td></tr>
<tr><td></td><td colspan="2">FCC: CN1166</td><td colspan="3">ISED: CN0001</td></tr>
<tr><td></td><td rowspan="2">VCCI:</td><td>☐R-20025</td><td>☐G-20034</td><td>☐C-20020</td><td>☐T-20020</td></tr>
<tr><td></td><td>☐R-20141</td><td>☐G-20134</td><td>☐C-20103</td><td>☐T-20104</td></tr>
<tr><td>☐</td><td colspan="5">Test Site – MRT Shenzhen Laboratory</td></tr>
<tr><td></td><td colspan="5">Laboratory Location (Shenzhen)
1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China</td></tr>
<tr><td></td><td colspan="5">Laboratory Accreditations</td></tr>
<tr><td></td><td colspan="2">A2LA: 3628.02</td><td colspan="3">CNAS: L10551</td></tr>
<tr><td></td><td colspan="2">FCC: CN1284</td><td colspan="3">ISED: CN0105</td></tr>
<tr><td>☐</td><td colspan="5">Test Site – MRT Taiwan Laboratory</td></tr>
<tr><td></td><td colspan="5">Laboratory Location (Taiwan)
No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)</td></tr>
<tr><td></td><td colspan="5">Laboratory Accreditations</td></tr>
<tr><td></td><td colspan="5">TAF: 3261</td></tr>
<tr><td></td><td colspan="2">FCC: 291082, TW3261</td><td colspan="3">ISED: TW3261</td></tr>
</table>

1.4. Product Information

Product Name	BE19000 Tri-Band Wi-Fi 7 XGS-PON Router
Model No.	XGB835v
Brand Name	tp-link
EUT Identification No.	20250626Sample#03 (Radiated) 20250626Sample#02 (Conducted)
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Antenna Specification	Refer to clause 1.7
Operating Temp.	0 ~ 40 °C
Power Type	By Adapter
Accessory	
Adapter	Model No: ADS-60DG-12 12054EPCU Input: 100-240 V~ 50/60 Hz, Max.1.5 A Output: 12.0 Vdc 4.5 A 54.0 W
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	UNII-5: 5925 ~ 6425 MHz UNII-6: 6425 ~ 6525 MHz UNII-7: 6525 ~ 6875 MHz UNII-8: 6875 ~ 7125 MHz	
Type of Modulation	802.11ax/be: OFDMA	
Data Rate	802.11ax: up to 4804 Mbps 802.11be: up to 11528 Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

802.11ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz
25	6075 MHz	29	6095 MHz	33	6115 MHz
37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz
73	6315 MHz	77	6335 MHz	81	6355 MHz
85	6375 MHz	89	6395 MHz	93	6415 MHz
97	6435 MHz	101	6455 MHz	105	6475 MHz
109	6495 MHz	113	6515 MHz	117	6535 MHz
121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz
145	6675 MHz	149	6695 MHz	153	6715 MHz
157	6735 MHz	161	6755 MHz	165	6775 MHz
169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	185	6875 MHz	189	6895 MHz
193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz
229	7095 MHz	--	--	--	--

802.11ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz
27	6085 MHz	35	6125 MHz	43	6165 MHz
51	6205 MHz	59	6245 MHz	67	6285 MHz
75	6325 MHz	83	6365 MHz	91	6405 MHz
99	6445 MHz	107	6485 MHz	115	6525 MHz
123	6565 MHz	131	6605 MHz	139	6645 MHz
147	6685 MHz	155	6725 MHz	163	6765 MHz
171	6805 MHz	179	6845 MHz	187	6885 MHz
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz	--	--

802.11ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz
55	6225 MHz	71	6305 MHz	87	6385 MHz
103	6465 MHz	119	6545 MHz	135	6625 MHz
151	6705 MHz	167	6785 MHz	183	6865 MHz
199	6945 MHz	215	7025 MHz	--	--

802.11ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz
111	6505 MHz	143	6665 MHz	175	6825 MHz
207	6985 MHz	--	--	--	--

802.11be-EHT320-1

Channel	Frequency	Channel	Frequency	Channel	Frequency
31	6105 MHz	95	6425 MHz	159	6745 MHz

802.11be-EHT320-2

Channel	Frequency	Channel	Frequency	Channel	Frequency
63	6265 MHz	127	6585 MHz	191	6905 MHz

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	T_X Paths	Number of spatial streams	Antenna Gain (dBi)				Beamforming Directional Gain (dBi)	CDD Directional Gain (dBi)	
				Ant 0	Ant 1	Ant 2	Ant 3		For Power	For PSD
Wi-Fi Antenna										
Franklin	5925 ~ 6425	4	1	7.53	6.62	6.69	6.41	5.94	2.59	5.94
	5925 ~ 6425	4	4	7.53	6.62	6.69	6.41	--	2.59	2.59
	6425 ~ 6525	4	1	7.08	6.65	6.42	6.37	5.95	2.48	5.95
	6425 ~ 6525	4	4	7.08	6.65	6.42	6.37	--	2.48	2.48
	6525 ~ 6875	4	1	6.18	6.84	6.54	6.35	5.80	2.34	5.80
	6525 ~ 6875	4	4	6.18	6.84	6.54	6.35	--	2.34	2.34
	6875 ~ 7125	4	1	5.01	5.66	6.54	4.72	5.46	2.25	5.46
	6875 ~ 7125	4	4	5.01	5.66	6.54	4.72	--	2.25	2.25

1. The device supports CDD Mode and Beamforming mode, details refer to the table as below.
2. CDD signals are correlated, the directional gain as follows,

   When N_{SS}=1, for power measurements: the max directional gain (each angle) = $10 \log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10}) / N_{ANT}]$

   For power spectral density (PSD) measurements: the max directional gain (each angle) = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$

   When N_{SS}=4, the max directional gain (each angle) = $10 \log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10}) / N_{ANT}]$
3. Beamforming signals are correlated, the directional gain as follows,

   the max directional gain (each angle) = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$
4. The information as above is from the antenna report.

Test Mode	T_X Paths	CDD Mode	Beamforming Mode
802.11ax/be(6ID)	4	√	√

2. Test Configuration

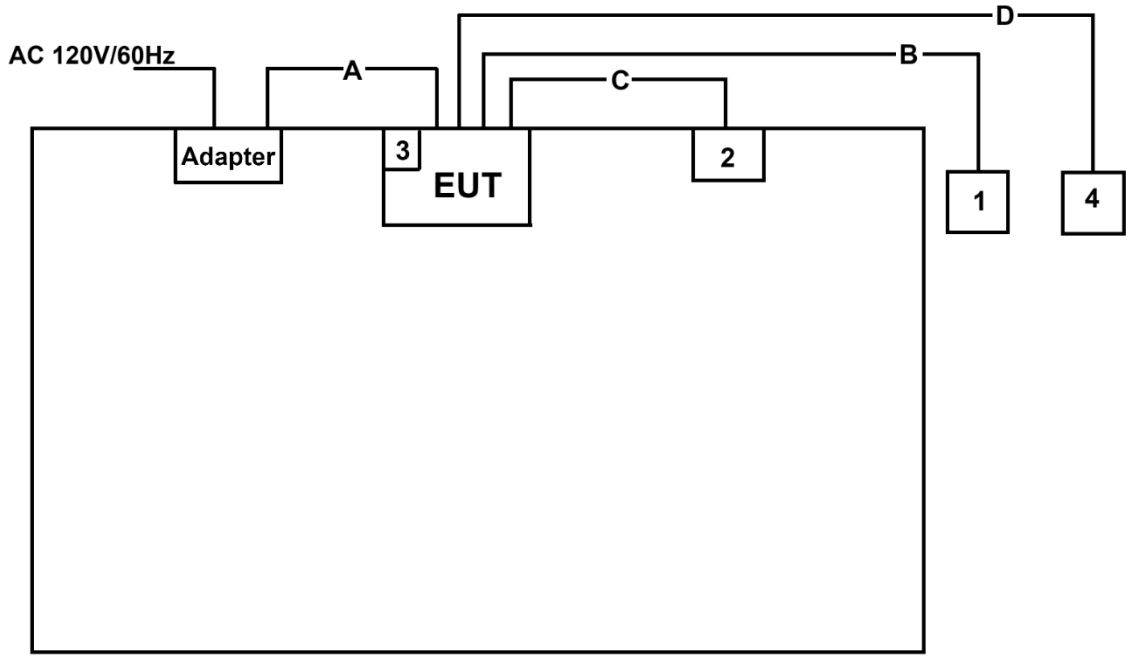
2.1. Test Mode

Mode 1: Transmit by 802.11ax-HE20_N_{SS}=1 (MCS0)
Mode 2: Transmit by 802.11ax-HE40_N_{SS}=1 (MCS0)
Mode 3: Transmit by 802.11ax-HE80_N_{SS}=1 (MCS0)
Mode 4: Transmit by 802.11ax-HE160_N_{SS}=1(MCS0)
Mode 5: Transmit by 802.11be-EHT20_N_{SS}=1 (MCS0)
Mode 6: Transmit by 802.11be-EHT40_N_{SS}=1 (MCS0)
Mode 7: Transmit by 802.11be-EHT80_N_{SS}=1 (MCS0)
Mode 8: Transmit by 802.11be-EHT160_N_{SS}=1 (MCS0)
Mode 9: Transmit by 802.11be-EHT320_N_{SS}=1 (MCS0)
Mode 10: Transmit by 802.11ax-HE20_N_{SS}=4 (MCS0)
Mode 11: Transmit by 802.11ax-HE40_N_{SS}=4 (MCS0)
Mode 12: Transmit by 802.11ax-HE80_N_{SS}=4 (MCS0)
Mode 13: Transmit by 802.11ax-HE160_N_{SS}=4(MCS0)
Mode 14: Transmit by 802.11be-EHT20_N_{SS}=4 (MCS0)
Mode 15: Transmit by 802.11be-EHT40_N_{SS}=4 (MCS0)
Mode 16: Transmit by 802.11be-EHT80_N_{SS}=4 (MCS0)
Mode 17: Transmit by 802.11be-EHT160_ N_{SS}=4 (MCS0)
Mode 18: Transmit by 802.11be-EHT320_ N_{SS}=4 (MCS0)
Note: 1. All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate which power is the greatest. 2. For CDD mode, this device supports 4 N_{SS} and power level is the same of spatial multiplexing. The worst case is N_{SS}=1. 3. For Beamforming operation, the manufacturer automatically reduces power based on a factor calculated as the difference between the beamforming directional gain and the CDD directional power gain. Thus, only the CDD mode was evaluated in this report.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram



Cable Type		Cable Description	Length
A	Power Cable	Non-Shielded	1.5 m
B	LAN Cable	Non-Shielded	>10.0 m
C	RJ11 Cable	Non-Shielded	1.7 m
D	LAN Cable	Non-Shielded	>10.0 m
Product		Manufacturer	Model No.
1	Notebook	Lenovo	E430C
2	Telephone	GAOKE	HCD737TSDL65
3	USB flash disk	Kingston	32GB
4	Notebook	HP	ENVY Laptop

2.3. Test Software

The test utility software used during testing was “MT7990 QA” and the version was 0.0.2.106.

Final power setting please refer to operational description.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.10-2013
- FCC KDB 789033 D02v02r01
- FCC KDB 987594 D02v03
- FCC KDB 987594 D04v03
- FCC KDB 662911 D01v02r01
- FCC KDB 414788 D01v01r01
- FCC KDB 412172 D01v01r01

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.407(a)(9) of the FCC Rules/Regulations:

Access points operating under the provisions of paragraphs (a)(5) and (a)(6) of this section must employ a permanently attached integrated antenna.

- The antenna of the device is built in and locked inside the enclosure.

Conclusion:

The device complies with the requirement of §15.407(a)(9).

4. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE11315	1 year	2026-06-16	WJ-AC2
Anechoic Chamber	TDK	WJ-AC2	MRTSUE07117	1 year	2026-05-12	WJ-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE07111	1 year	2026-03-24	WJ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 -60D	MRTSUE07076	1 year	2025-11-19	WJ-AC2
Horn Antenna	RFSPIN	DRH18-E	MRTSUE07105	1 year	2026-05-12	WJ-AC2
Pre-Amplifier	EMCI	EMC118A45SEE	MRTSUE07102	1 year	2026-04-09	WJ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE07285	1 year	2026-02-18	WJ-AC2
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE07100	1 year	2026-04-09	WJ-AC2
Pre-Amplifier	EMCI	EMC184045SEE	MRTSUE07103	1 year	2026-04-09	WJ-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2025-12-05	SIP-AC1
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2025-12-19	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2025-10-16	SIP-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06645	1 year	2026-06-26	SIP-AC1
Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2025-06-21 2026-06-20	SIP-TR1
USB Power Sensor	Keysight	U2021XA	MRTSUE06596	1 year	2025-07-23 2026-07-22	SIP-TR1
Pxle Microwave Vector Signal Source test set	Keysight	M9384B	MRTSUE06994	1 year	2025-12-23	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2025-10-16	SIP-TR1
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2026-04-29	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2026-04-29	SIP-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06614	1 year	2025-10-13	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2025-10-29	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2029-10-13	SIP-SR2

Software	Version	Function
e3	230711	RE & CE
CONTROLLER CO3000	v 1.03.02	RE Antenna & Turntable
Controller_MF 7802BS	1.02	RE Antenna & Turntable
Agilent Power Panel	V R03.09.00	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9 kHz ~ 150 kHz: 3.58 dB 150 kHz ~ 30 MHz: 3.20 dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9 kHz ~ 30 MHz: 2.35 dB Coplanar: 9 kHz ~ 30 MHz: 2.37 dB Horizontal: 30 MHz ~ 200 MHz: 3.47 dB 200 MHz ~ 1GHz: 4.17 dB 1 GHz ~ 40 GHz: 4.97 dB Vertical: 30 MHz ~ 200 MHz: 4.07 dB 200 MHz ~ 1 GHz: 5.28 dB 1 GHz ~ 40 GHz: 4.84 dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.5 dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5 dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 3.2%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)(10)	26 dB Bandwidth	Conducted	Pass
15.407(a)(5)	Maximum Equivalent Isotopically Radiated Power (EIRP)		Pass
15.407(a)(5)	Maximum Power Spectral Density (EIRP)		Pass
15.407(b)(7)	In-Band Emission		Pass
15.407(d)(6)	Contention-Based Protocol		Pass
15.407(b)(6)	Unwanted Emissions	Radiated	Pass
15.407(b)(9), (10)	General Field Strength (Restricted Bands and Radiated Emission)		Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
2. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. 26 dB Bandwidth Measurement

6.2.1. Test Limit

The maximum transmitter channel bandwidth for U–NII devices in the 5.925–7.125 GHz band is 320 megahertz.

6.2.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)1) (26 dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

6.2.3. Test Setting

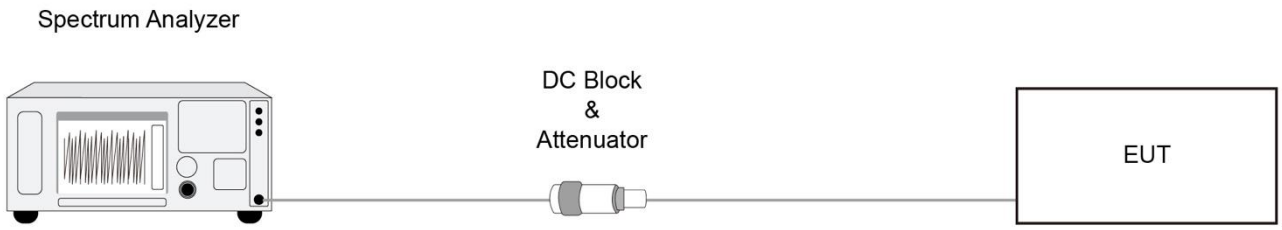
26 dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26 dB Bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the ODBW
3. VBW ≥ 3 × RBW
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

For an indoor access point operating in the 5.925-7.125 GHz band, the maximum EIRP over the frequency band of operation must not exceed 30 dBm.

6.3.2. Test Procedure

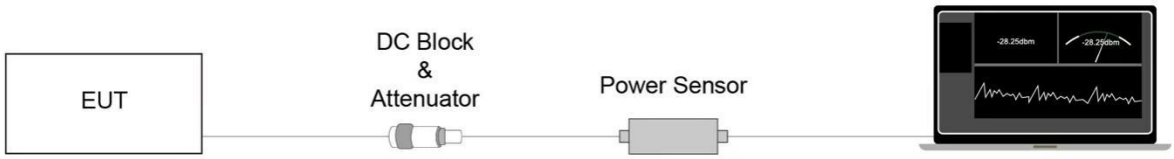
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

6.3.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm EIRP in any 1-megahertz band.

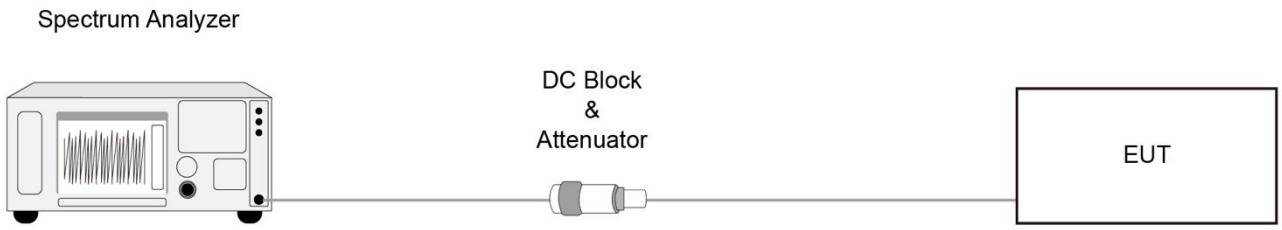
6.4.2. Test Procedure

KDB 789033 D02v02r01-Section Ⅱ)F)

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points ≥ 2 × (span / RBW)
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add 10*log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10*log(1/0.25) = 6 dB if the duty cycle is 25 percent.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. In-Band Emission Measurement

6.5.1. Test Limit

Suppressed by 20 dB at 1 MHz outside of the channel edge.

(The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

Suppressed by 28 dB at one channel bandwidth from the channel center.

Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

6.5.2. Test Procedure

KDB 987594 D02v03 - Section J

6.5.3. Test Setting

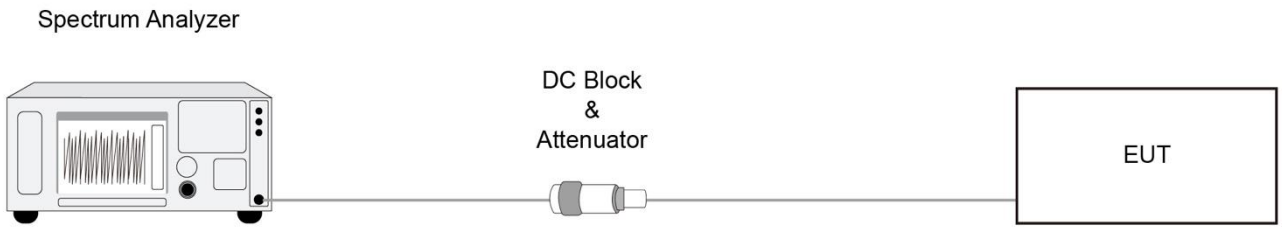
Emissions Mask Reference Level Measurement

1. Set the span to encompass the entire 26 dB EBW of the signal.
2. Set RBW = same RBW used for 26 dB EBW measurement.
3. Set VBW ≥ 3 X RBW.
4. Number of points in sweep ≥ [2 x span / RBW].
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.

In-Band Emission

1. Using the measuring equipment limit line function, develop the emissions mask based on rule.
2. Adjust the span to encompass the entire mask as necessary.
3. Clear trace.
4. Trace average at least 100 traces in power averaging (rms) mode.
5. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Frequency Stability Measurement

6.6.1. Test Limit

Manufactures 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 user's manual.

6.6.2. Test Procedure

Frequency Stability Under Temperature Variations:

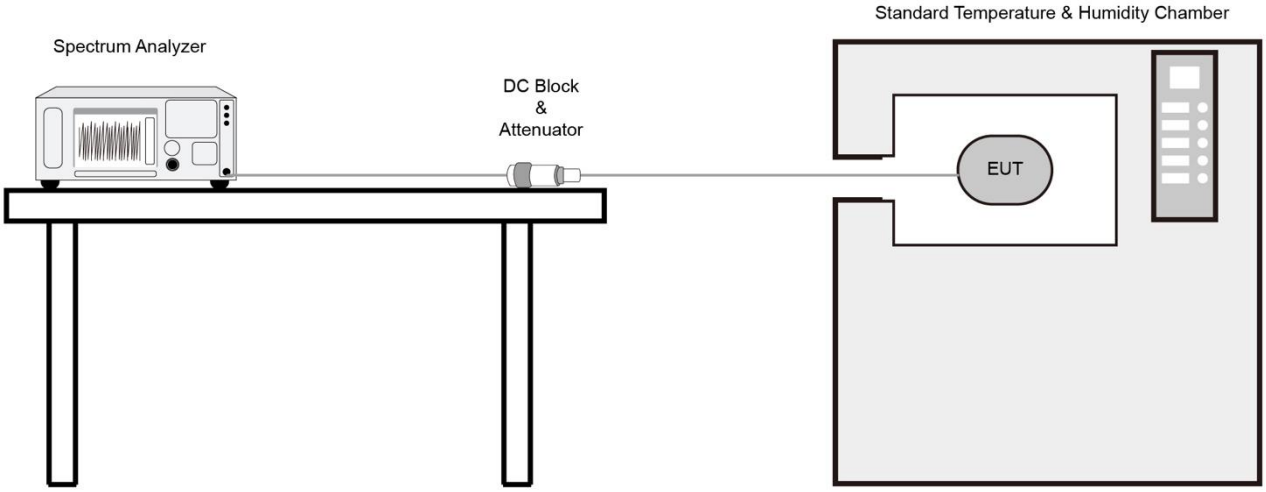
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, recordthe maximum frequency change.

6.6.3. Test Setup



6.6.4. Test Result

Grantee ensure that the product meets e-CFR Title 47 section 15.407(g) and KDB 789033 D02v02r01 frequency stability such that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

6.7. Contention Based Protocol Measurement

6.7.1. Test Limit

Unlicensed indoor low power device must detect co-channel radio frequency power that is at least -62dBm (The threshold is referenced to a 0dBi antenna gain.) or low.

Indoor low power device must detect an AWGN signal with 90% (or better) level of certainty.

6.7.2. Test Procedure

KDB 987594 D02v03- Section I

6.7.3. Test Setting

1. Configure the EUT to transmit with a constant duty cycle.

2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.

3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.

Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.

4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.

5. Using an AWGN signal source, generate a 10 MHz-wide AWGN signal. Use Table 1 of KDB 987594 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.

6. Set the AWGN signal power to an extremely low level. Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in below figure.

7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

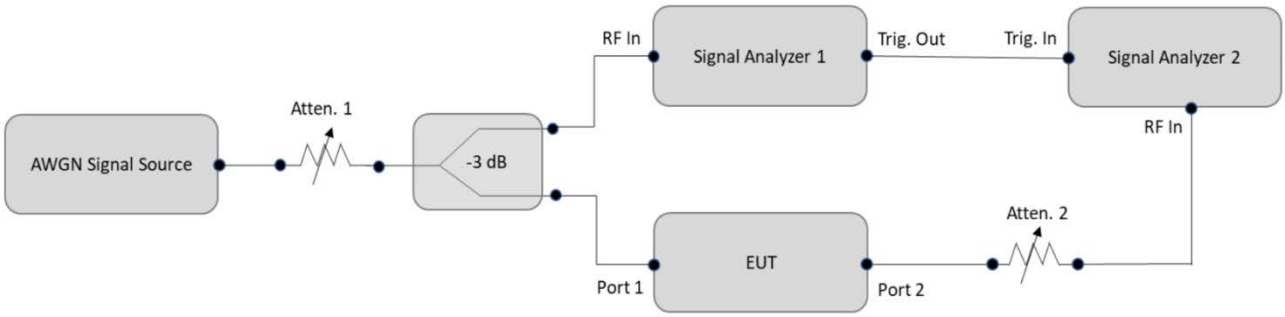
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.

9. Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.

10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN

signal and repeat the process.

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.6.

6.8. Radiated Spurious Emission Measurement

6.8.1. Test Limit

For 15.407(b)(5) requirement

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an EIRP. of −27 dBm/MHz.

Refer to 987594 D02 U-NII 6GHz EMC Measurement v03 clause G

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.8.2. Test Procedure

KDB 789033 D02v02r01-Section II)G)

6.8.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode

5. Detector = Peak

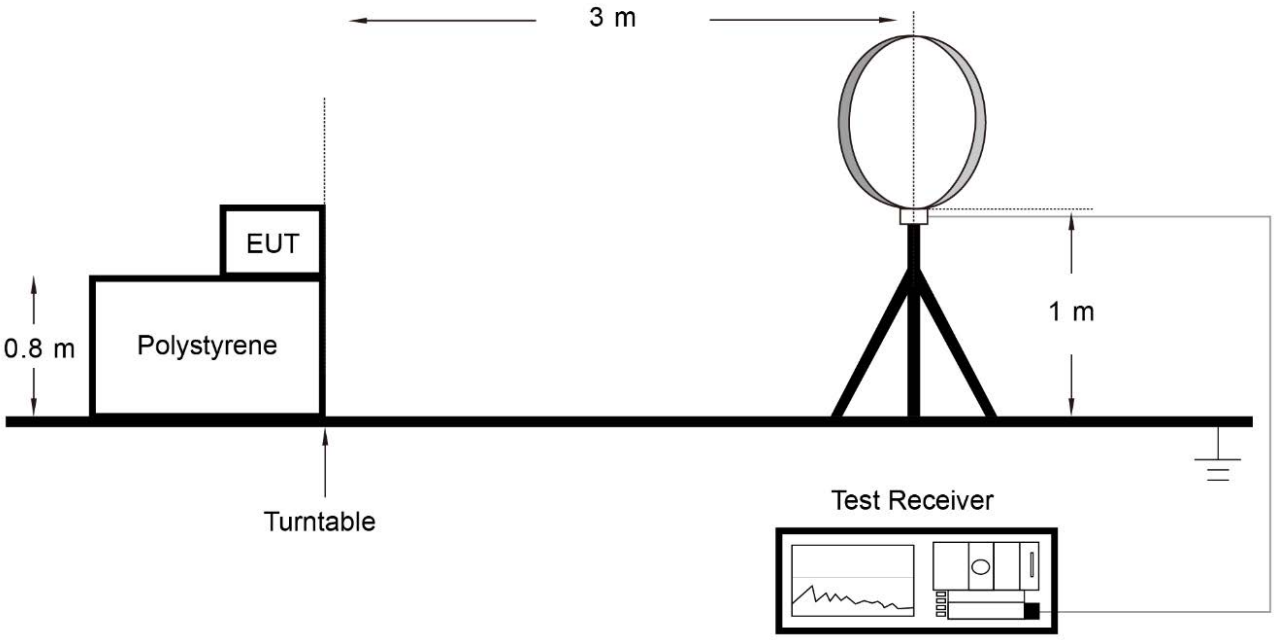
6. Sweep time = auto

7. Trace mode = max hold

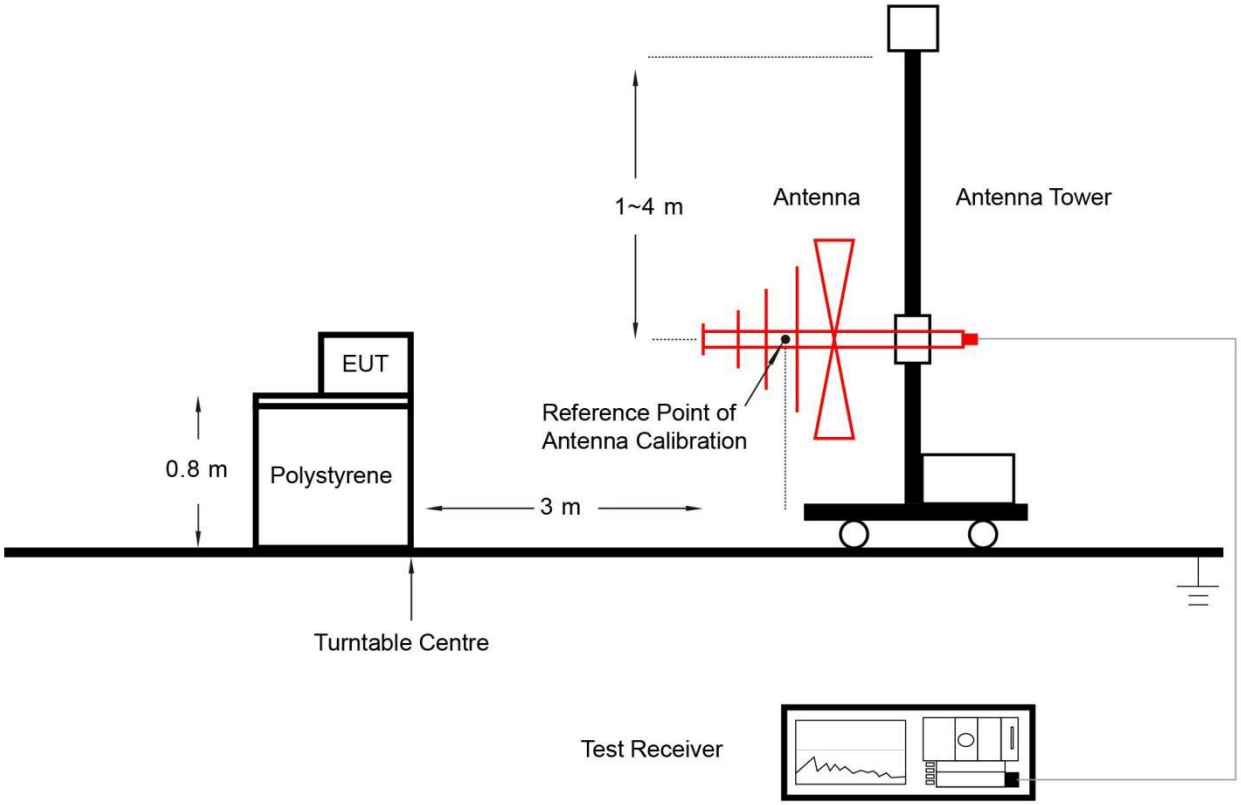
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.8.4. Test Setup

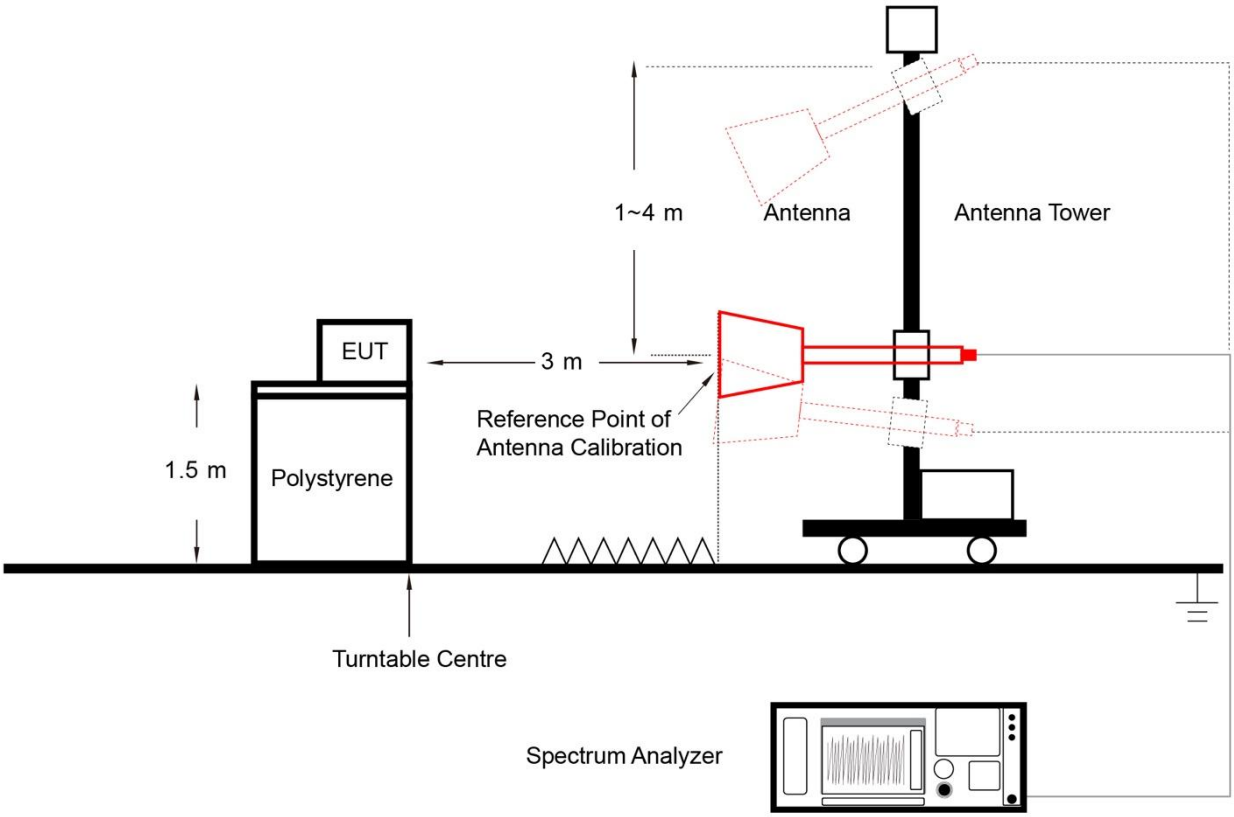
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.8.5. Test Result

Refer to Appendix A.7.

6.9. Radiated Restricted Band Edge Measurement

6.9.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

For 15.407(b)(5) requirement:

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an EIRP. of −27 dBm/MHz.

Refer to 987594 D02 U-NII 6GHz EMC Measurement v03 clause G - Unwanted Emission Measurement

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.9.2. Test Procedure

KDB 789033 D02v02r01-Section II)G)

6.9.3. Test Setting

Peak Measurements above 1GHz

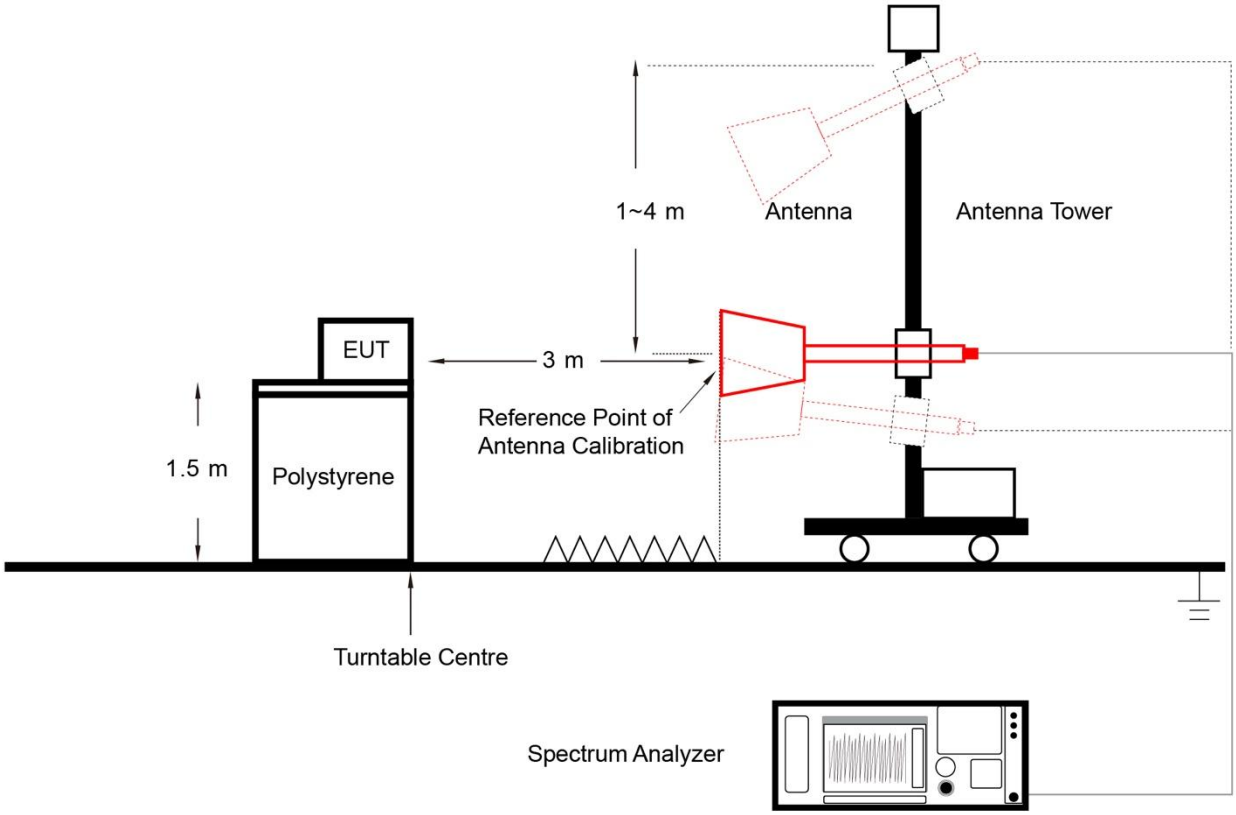
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.9.4. Test Setup



6.9.5. Test Result

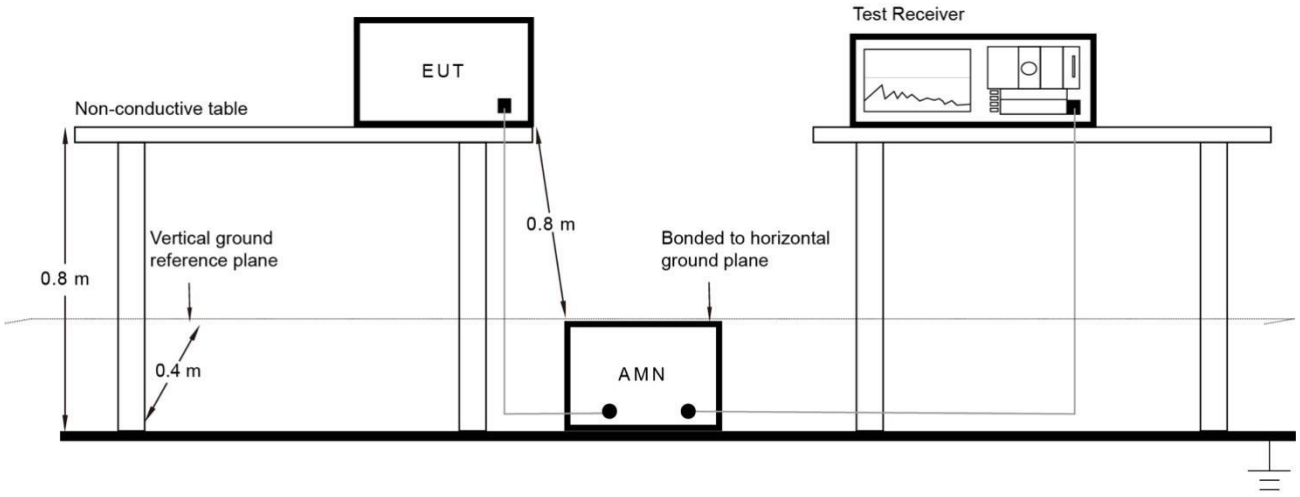
Refer to Appendix A.8.

6.10. AC Conducted Emissions Measurement

6.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies.		
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

6.10.2. Test Setup



6.10.3. Test Result

Refer to Appendix A.9.

Appendix A – Test Result

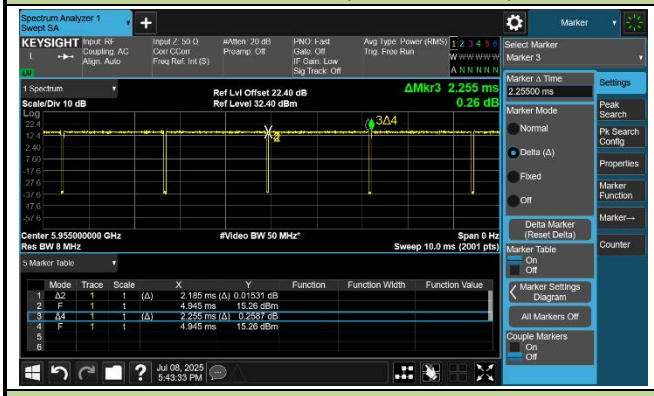
A.1 Duty Cycle Test Result

Test Site	SIP-TR1	Test Engineer	Nolan Chen
Test Date	2025-07-08	Test Mode	Nss=1

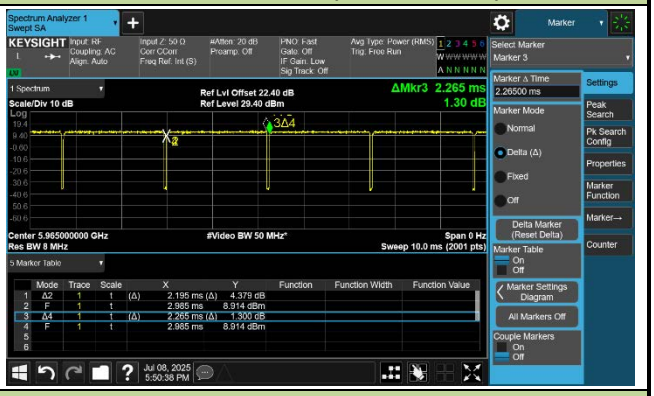
Test Mode	Duty Cycle
802.11ax-HE20	96.90%
802.11ax-HE40	96.91%
802.11ax-HE80	97.34%
802.11ax-HE160	97.56%
802.11be-EHT20	97.35%
802.11be-EHT40	97.57%
802.11be-EHT80	96.92%
802.11be-EHT160	97.35%
802.11be-EHT320-1	97.35%
802.11be-EHT320-2	97.35%

Duty Cycle (T = Transmission Duration)

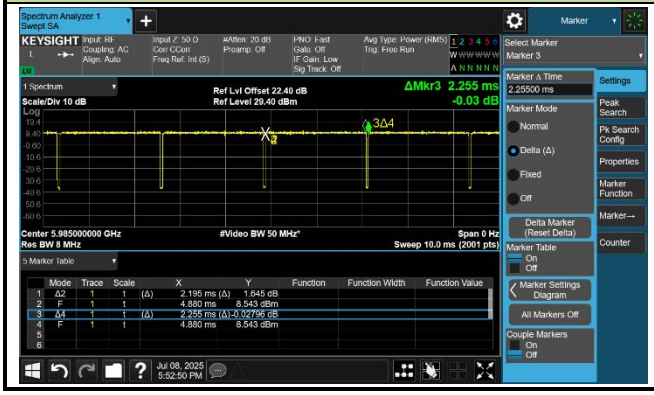
802.11ax-HE20 (T = 2.185 ms)



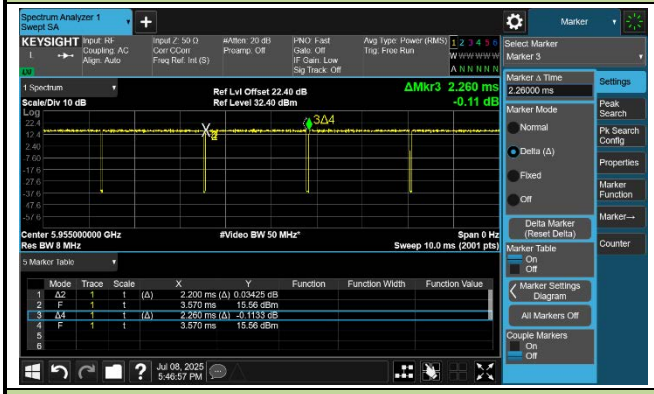
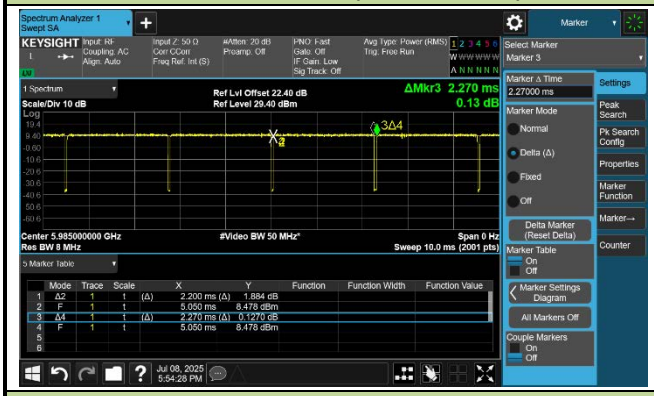
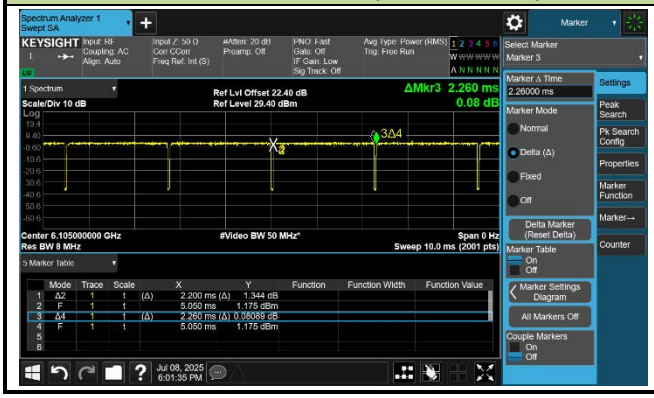
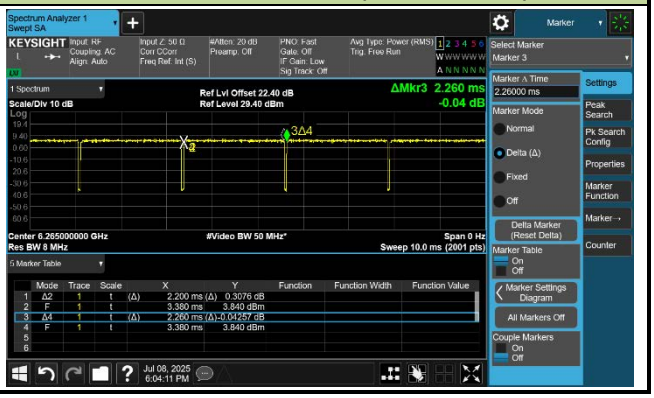
802.11ax-HE40 (T = 2.195 ms)



802.11ax-HE80 (T = 2.195 ms)



802.11ax-HE160 (T = 2.200 ms)

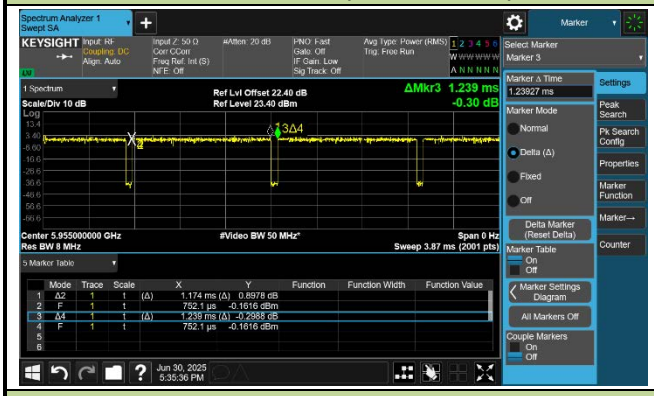
Duty Cycle (T = Transmission Duration)	
802.11be-EHT20 (T = 2.200 ms)	802.11be-EHT40 (T = 2.205 ms)
	
802.11be-EHT80 (T = 2.200 ms)	802.11be-EHT160 (T = 2.205 ms)
	
802.11be-EHT320-1 (T = 2.200 ms)	802.11be-EHT320-2 (T = 2.200 ms)
	

Test Site	SIP-TR1	Test Engineer	Nolan Chen
Test Date	2025-06-30	Test Mode	Nss=4

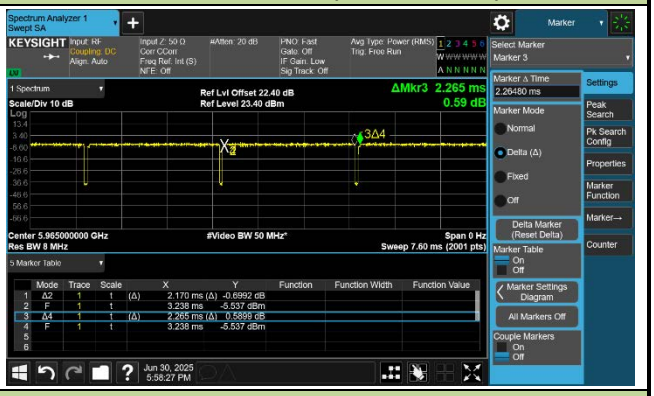
Test Mode	Duty Cycle
802.11ax-HE20	94.75%
802.11ax-HE40	95.81%
802.11ax-HE80	96.99%
802.11ax-HE160	97.47%
802.11be-EHT20	97.47%
802.11be-EHT40	97.30%
802.11be-EHT80	96.83%
802.11be-EHT160	97.31%
802.11be-EHT320-1	97.14%
802.11be-EHT320-2	97.01%

Duty Cycle (T = Transmission Duration)

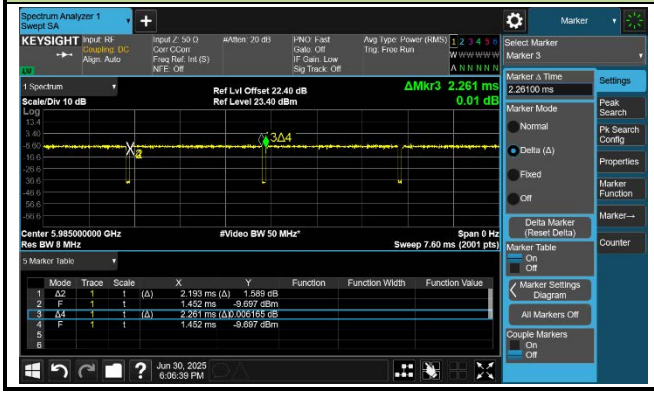
802.11ax-HE20 (T = 1.174 ms)



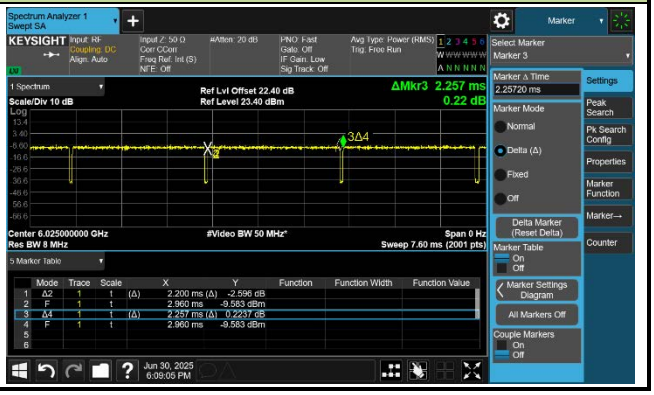
802.11ax-HE40 (T = 2.170 ms)

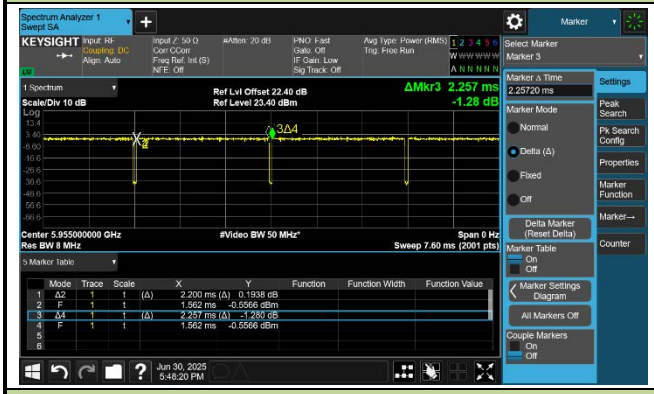
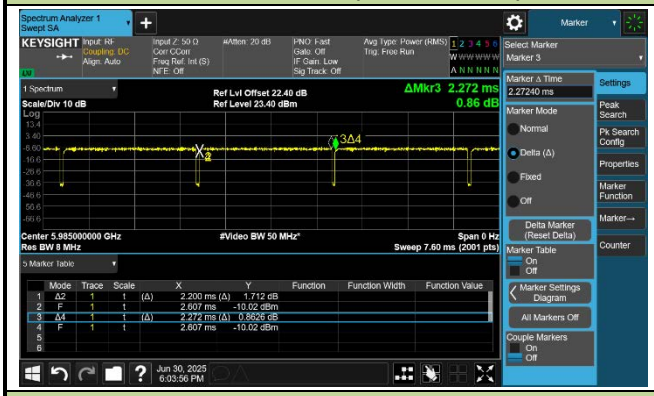
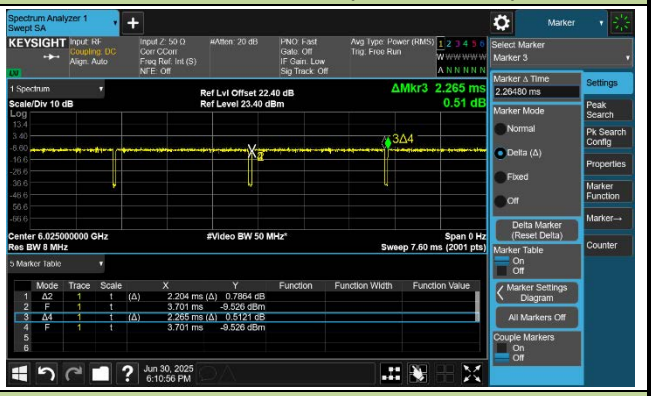
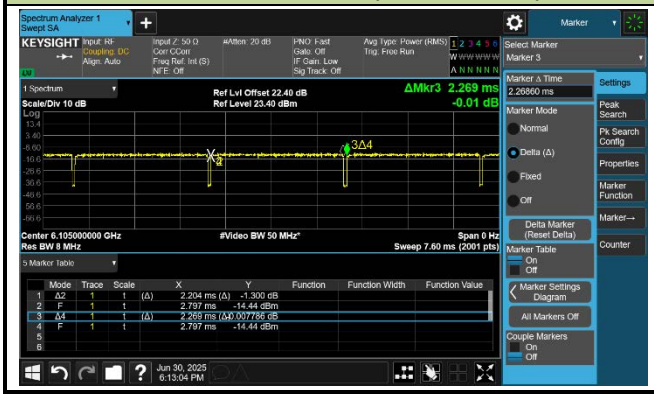
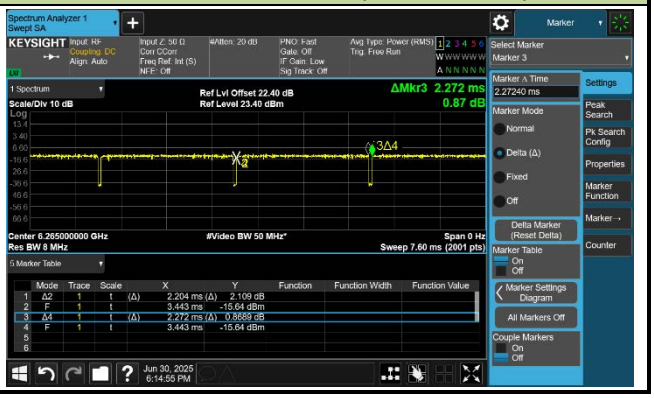


802.11ax-HE80 (T = 2.193 ms)



802.11ax-HE160 (T = 2.200 ms)



Duty Cycle (T = Transmission Duration)	
802.11be-EHT20 (T = 2.200 ms)	802.11be-EHT40 (T = 2.200 ms)
	
802.11be-EHT80 (T = 2.200 ms)	802.11be-EHT160 (T = 2.204 ms)
	
802.11be-EHT320-1 (T = 2.204 ms)	802.11be-EHT320-2 (T = 2.204 ms)
	

A.2 26 dB Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Nolan Chen
Test Date	2025-07-18~2025-07-20	Test Mode	Nss=1

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Test Limit (MHz)
802.11ax-HE20	MCS0	1	5955	19.99	18.904	≤ 320
802.11ax-HE20	MCS0	49	6195	19.92	18.922	≤ 320
802.11ax-HE20	MCS0	93	6415	19.97	18.929	≤ 320
802.11ax-HE20	MCS0	97	6435	19.99	18.936	≤ 320
802.11ax-HE20	MCS0	105	6475	19.94	18.947	≤ 320
802.11ax-HE20	MCS0	113	6515	19.96	18.943	≤ 320
802.11ax-HE20	MCS0	117	6535	20.06	18.926	≤ 320
802.11ax-HE20	MCS0	149	6695	20.06	18.941	≤ 320
802.11ax-HE20	MCS0	181	6855	19.97	18.935	≤ 320
802.11ax-HE20	MCS0	185	6875	20.02	18.963	≤ 320
802.11ax-HE20	MCS0	189	6895	19.95	18.938	≤ 320
802.11ax-HE20	MCS0	209	6995	19.91	18.952	≤ 320
802.11ax-HE20	MCS0	229	7095	19.95	18.936	≤ 320
802.11ax-HE40	MCS0	3	5965	39.53	37.722	≤ 320
802.11ax-HE40	MCS0	51	6205	39.50	37.799	≤ 320
802.11ax-HE40	MCS0	91	6405	39.51	37.849	≤ 320
802.11ax-HE40	MCS0	99	6445	39.53	37.835	≤ 320
802.11ax-HE40	MCS0	107	6485	39.68	37.850	≤ 320
802.11ax-HE40	MCS0	115	6525	39.65	37.820	≤ 320
802.11ax-HE40	MCS0	123	6565	39.51	37.837	≤ 320
802.11ax-HE40	MCS0	147	6685	39.73	37.796	≤ 320
802.11ax-HE40	MCS0	179	6845	39.61	37.810	≤ 320
802.11ax-HE40	MCS0	187	6885	39.57	37.883	≤ 320
802.11ax-HE40	MCS0	195	6925	39.45	37.769	≤ 320
802.11ax-HE40	MCS0	211	7005	39.65	37.806	≤ 320
802.11ax-HE40	MCS0	227	7085	39.53	37.867	≤ 320

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Test Limit (MHz)
802.11ax-HE80	MCS0	7	5985	80.17	77.425	≤ 320
802.11ax-HE80	MCS0	55	6225	80.10	77.397	≤ 320
802.11ax-HE80	MCS0	87	6385	80.04	77.408	≤ 320
802.11ax-HE80	MCS0	103	6465	80.11	77.487	≤ 320
802.11ax-HE80	MCS0	119	6545	79.91	77.655	≤ 320
802.11ax-HE80	MCS0	135	6625	80.12	77.295	≤ 320
802.11ax-HE80	MCS0	151	6705	80.16	77.418	≤ 320
802.11ax-HE80	MCS0	167	6785	80.08	77.228	≤ 320
802.11ax-HE80	MCS0	183	6865	80.10	77.377	≤ 320
802.11ax-HE80	MCS0	199	6945	80.14	77.362	≤ 320
802.11ax-HE80	MCS0	215	7025	80.12	77.410	≤ 320
802.11ax-HE160	MCS0	15	6025	161.7	156.30	≤ 320
802.11ax-HE160	MCS0	47	6185	161.5	156.64	≤ 320
802.11ax-HE160	MCS0	79	6345	161.7	156.40	≤ 320
802.11ax-HE160	MCS0	111	6505	162.0	156.25	≤ 320
802.11ax-HE160	MCS0	143	6665	161.9	156.40	≤ 320
802.11ax-HE160	MCS0	175	6825	161.9	156.53	≤ 320
802.11ax-HE160	MCS0	207	6985	161.8	156.22	≤ 320
802.11be-EHT20	MCS0	1	5955	20.06	18.931	≤ 320
802.11be-EHT20	MCS0	49	6195	20.10	18.931	≤ 320
802.11be-EHT20	MCS0	93	6415	20.01	18.939	≤ 320
802.11be-EHT20	MCS0	97	6435	20.03	18.945	≤ 320
802.11be-EHT20	MCS0	105	6475	20.00	18.949	≤ 320
802.11be-EHT20	MCS0	113	6515	19.95	18.925	≤ 320
802.11be-EHT20	MCS0	117	6535	19.97	18.953	≤ 320
802.11be-EHT20	MCS0	149	6695	20.06	18.946	≤ 320
802.11be-EHT20	MCS0	181	6855	20.02	18.949	≤ 320
802.11be-EHT20	MCS0	185	6875	20.11	18.934	≤ 320
802.11be-EHT20	MCS0	189	6895	20.10	18.949	≤ 320
802.11be-EHT20	MCS0	209	6995	20.03	18.950	≤ 320
802.11be-EHT20	MCS0	229	7095	20.00	18.945	≤ 320

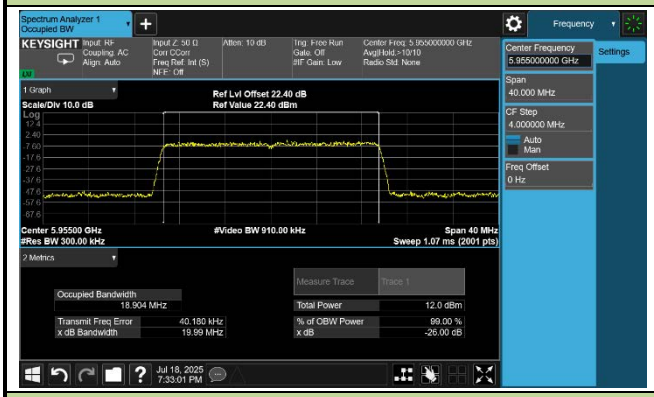
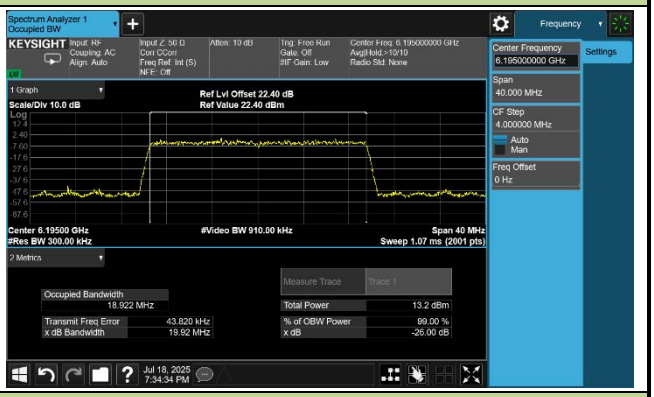
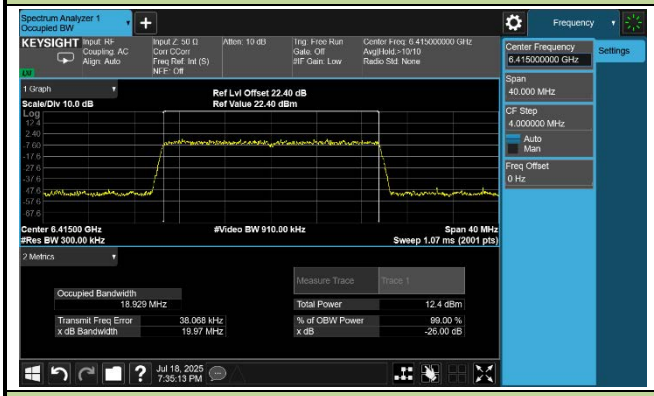
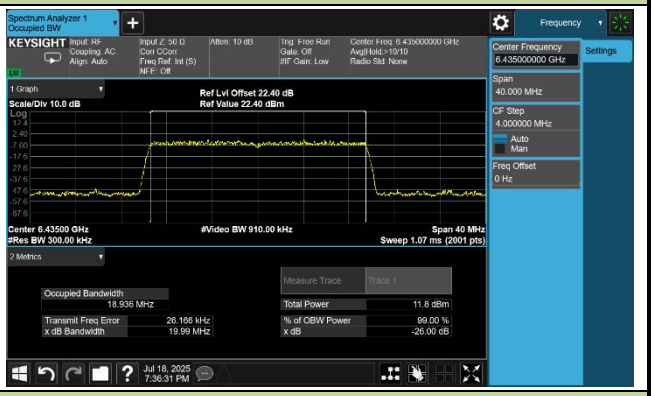
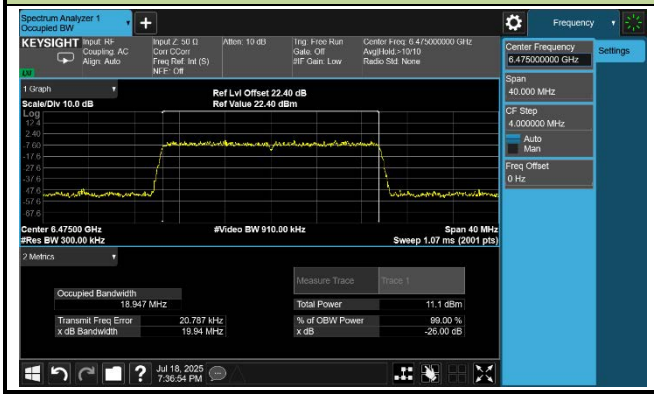
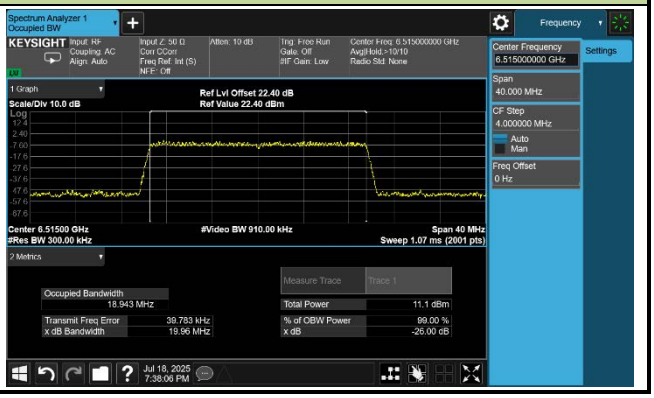
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Test Limit (MHz)
802.11be-EHT40	MCS0	3	5965	39.80	37.790	≤ 320
802.11be-EHT40	MCS0	51	6205	39.83	37.831	≤ 320
802.11be-EHT40	MCS0	91	6405	39.63	37.858	≤ 320
802.11be-EHT40	MCS0	99	6445	39.82	37.803	≤ 320
802.11be-EHT40	MCS0	107	6485	39.70	37.742	≤ 320
802.11be-EHT40	MCS0	115	6525	39.58	37.857	≤ 320
802.11be-EHT40	MCS0	123	6565	39.34	37.774	≤ 320
802.11be-EHT40	MCS0	147	6685	39.52	37.812	≤ 320
802.11be-EHT40	MCS0	179	6845	39.43	37.801	≤ 320
802.11be-EHT40	MCS0	187	6885	39.57	37.867	≤ 320
802.11be-EHT40	MCS0	195	6925	39.14	37.882	≤ 320
802.11be-EHT40	MCS0	211	7005	39.53	37.791	≤ 320
802.11be-EHT40	MCS0	227	7085	39.55	37.770	≤ 320
802.11be-EHT80	MCS0	7	5985	80.11	77.326	≤ 320
802.11be-EHT80	MCS0	55	6225	80.00	77.353	≤ 320
802.11be-EHT80	MCS0	87	6385	80.03	77.336	≤ 320
802.11be-EHT80	MCS0	103	6465	79.97	77.411	≤ 320
802.11be-EHT80	MCS0	119	6545	79.99	77.247	≤ 320
802.11be-EHT80	MCS0	135	6625	80.05	77.457	≤ 320
802.11be-EHT80	MCS0	151	6705	80.09	77.308	≤ 320
802.11be-EHT80	MCS0	167	6785	80.02	77.434	≤ 320
802.11be-EHT80	MCS0	183	6865	80.03	77.385	≤ 320
802.11be-EHT80	MCS0	199	6945	80.01	77.430	≤ 320
802.11be-EHT80	MCS0	215	7025	80.12	77.322	≤ 320
802.11be-EHT160	MCS0	15	6025	161.9	156.40	≤ 320
802.11be-EHT160	MCS0	47	6185	161.7	156.83	≤ 320
802.11be-EHT160	MCS0	79	6345	161.7	156.53	≤ 320
802.11be-EHT160	MCS0	111	6505	162.0	156.72	≤ 320
802.11be-EHT160	MCS0	143	6665	161.9	156.45	≤ 320
802.11be-EHT160	MCS0	175	6825	161.8	156.76	≤ 320
802.11be-EHT160	MCS0	207	6985	162.0	156.36	≤ 320

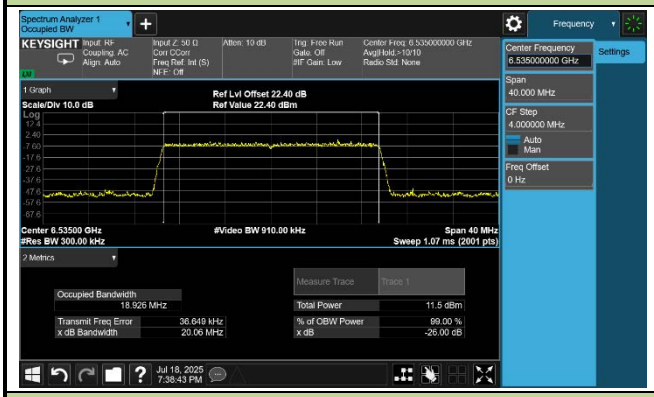
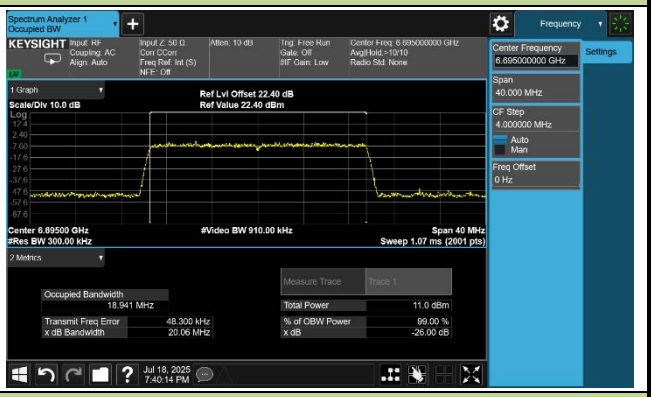
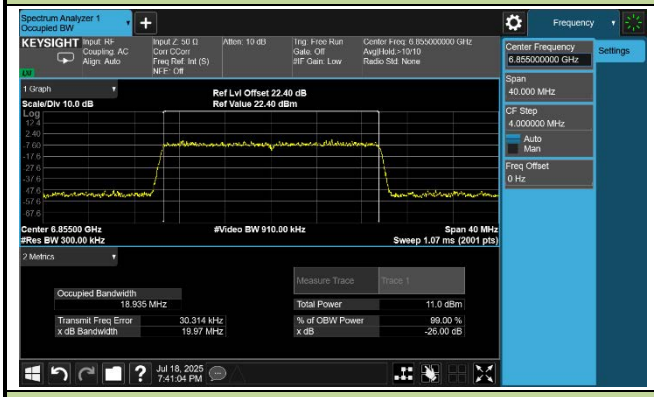
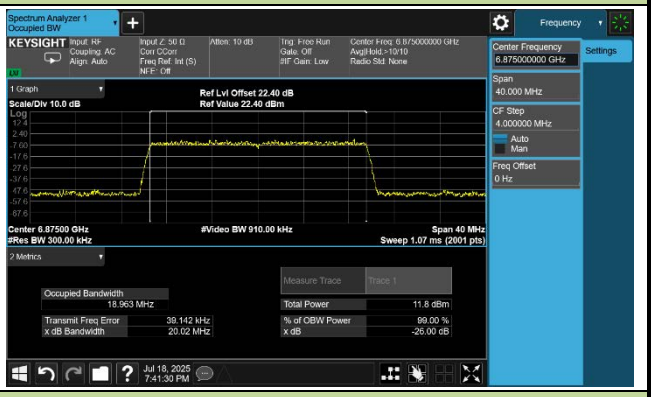
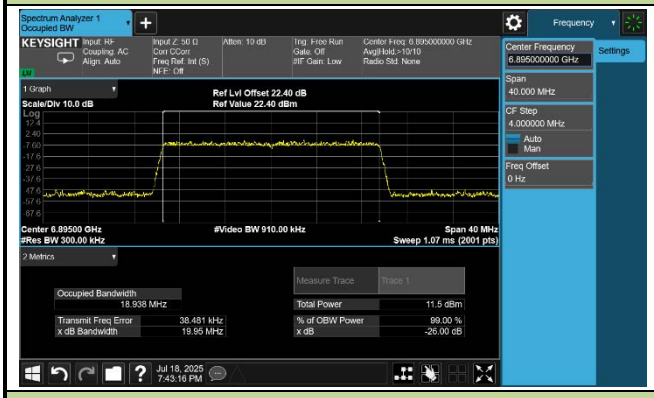
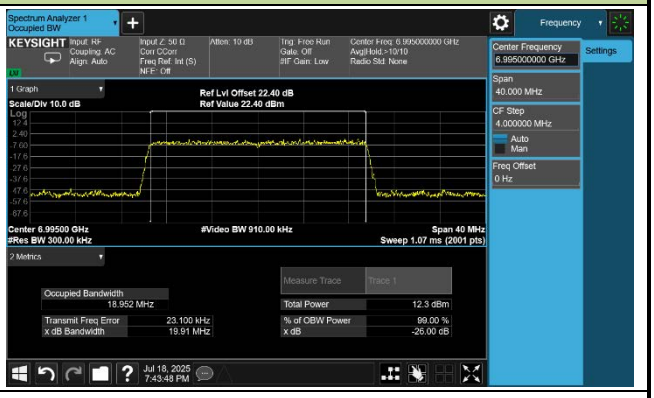
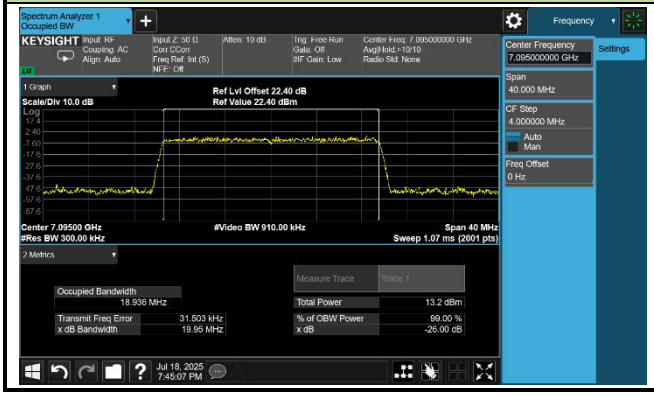
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Test Limit (MHz)
802.11be-EHT320-1	MCS0	31	6105	326.3	314.40	≤ 320
802.11be-EHT320-1	MCS0	95	6425	325.8	314.60	≤ 320
802.11be-EHT320-1	MCS0	159	6745	326.3	313.89	≤ 320
802.11be-EHT320-2	MCS0	63	6265	325.9	314.19	≤ 320
802.11be-EHT320-2	MCS0	127	6585	326.4	315.03	≤ 320
802.11be-EHT320-2	MCS0	191	6905	326.2	314.68	≤ 320

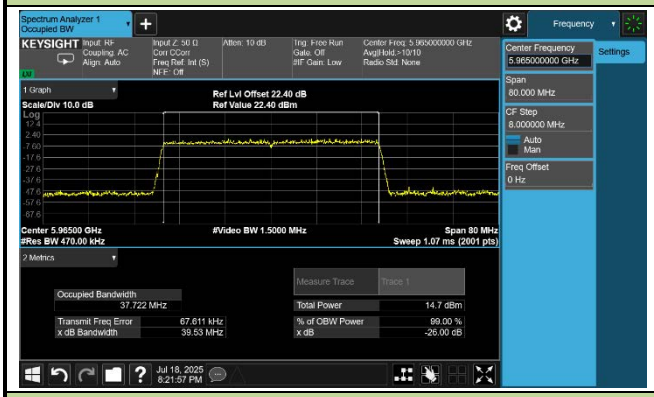
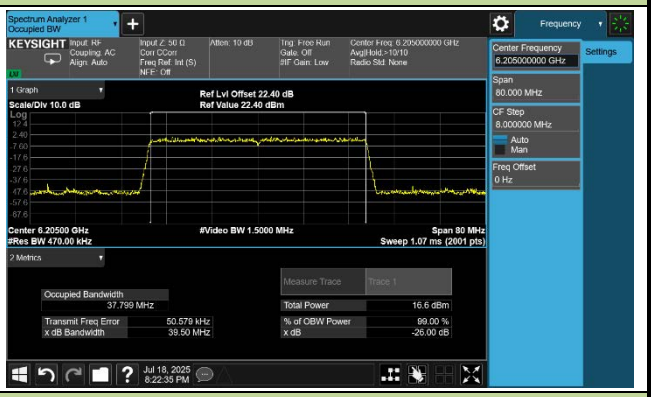
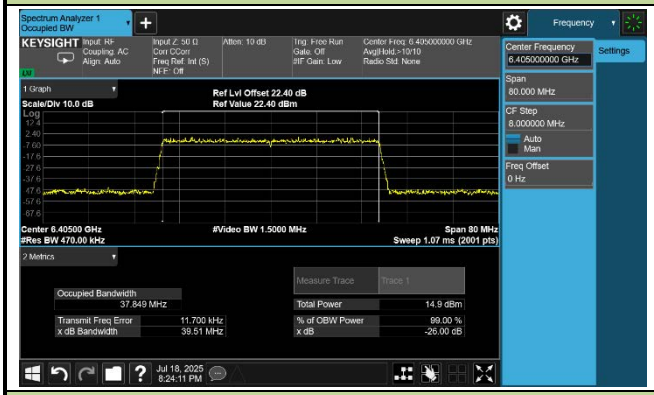
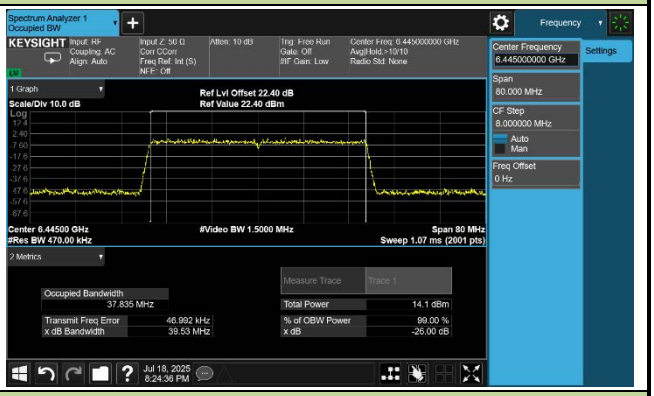
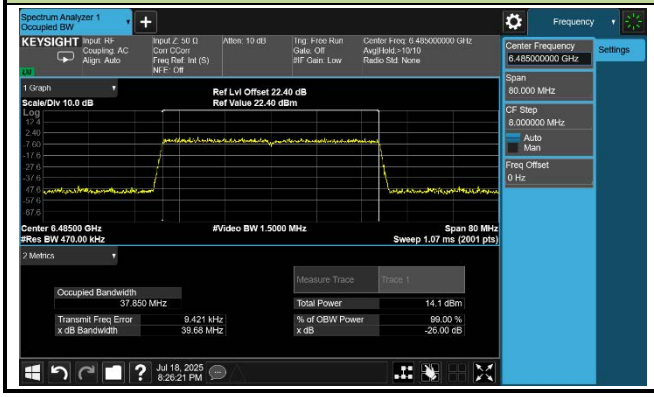
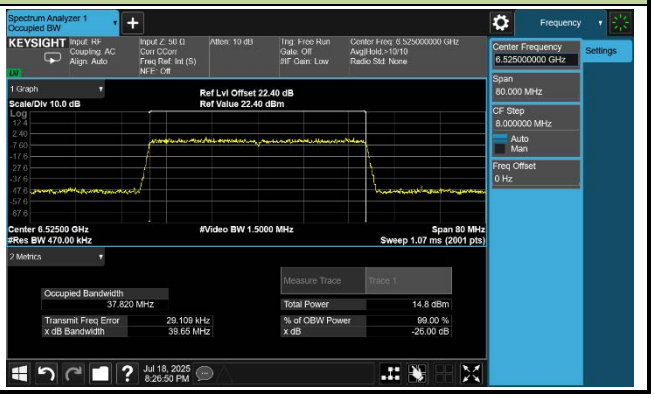
Note:

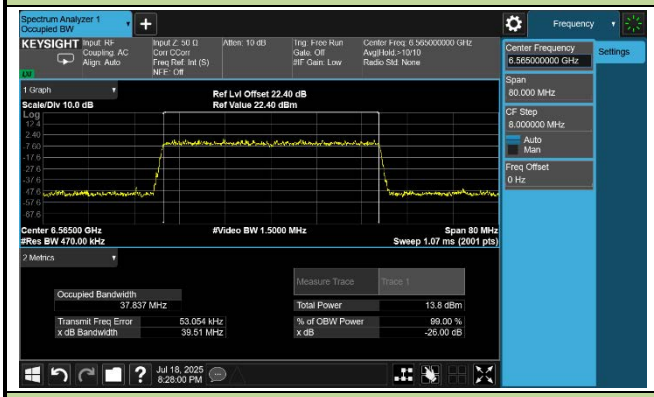
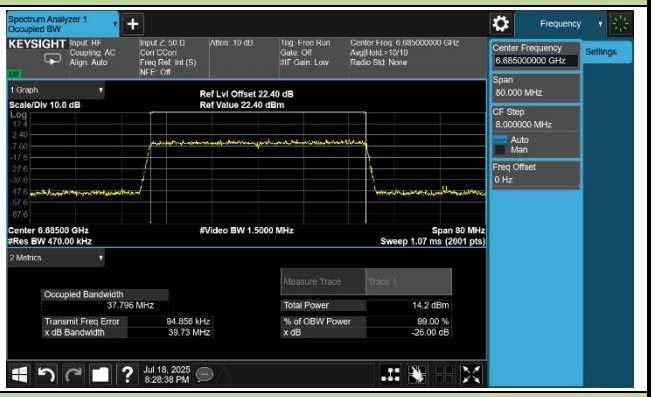
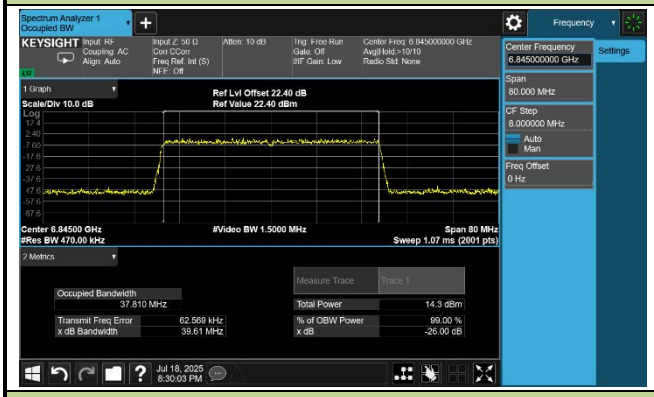
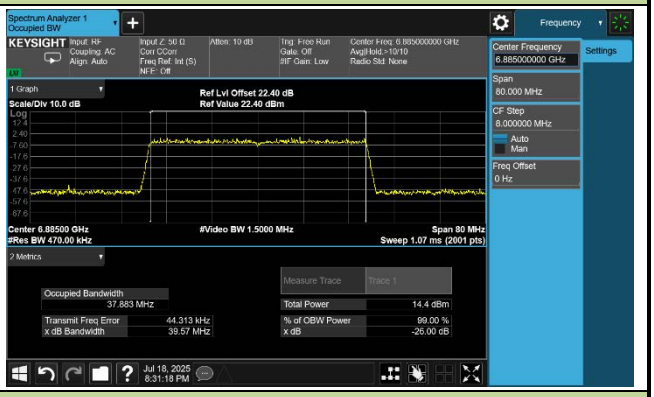
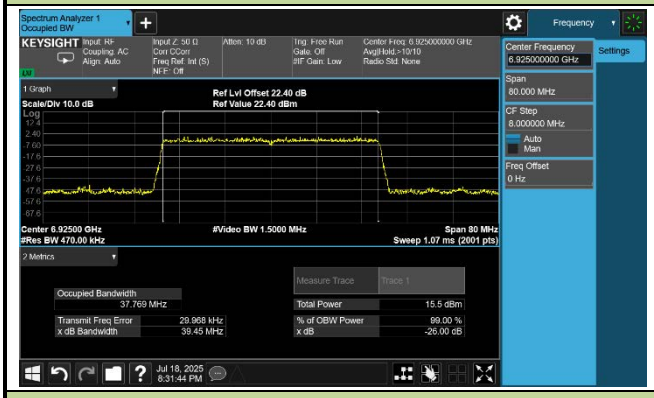
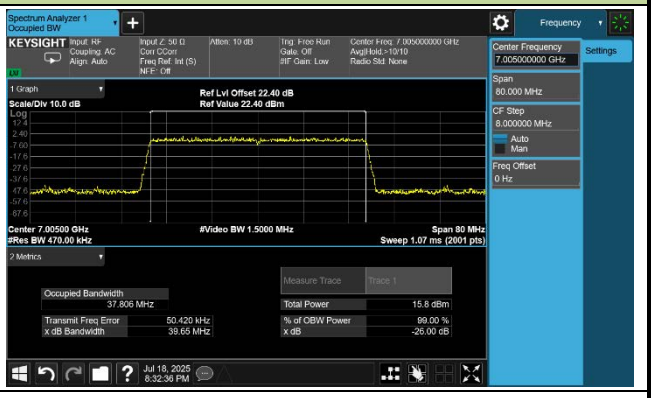
For channels with a nominal bandwidth less than 320 MHz compliance is demonstrated by way of the 26 dB EBW.

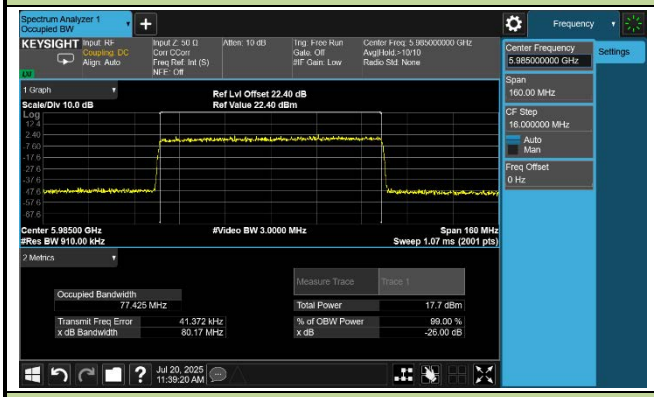
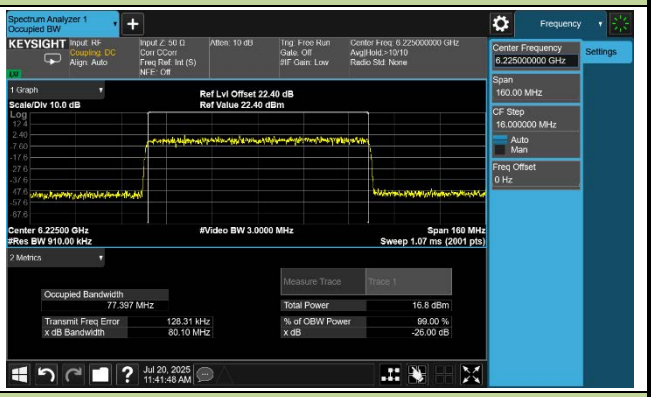
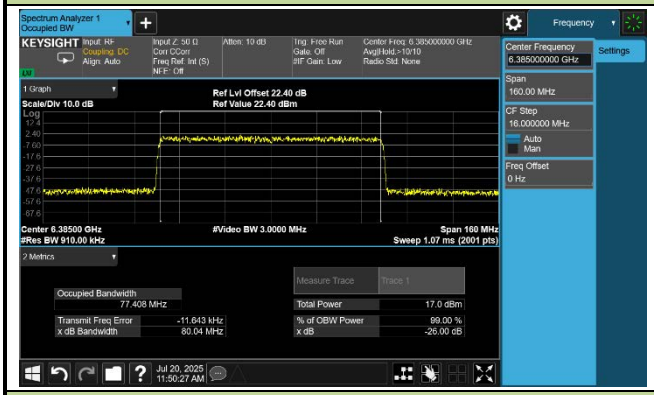
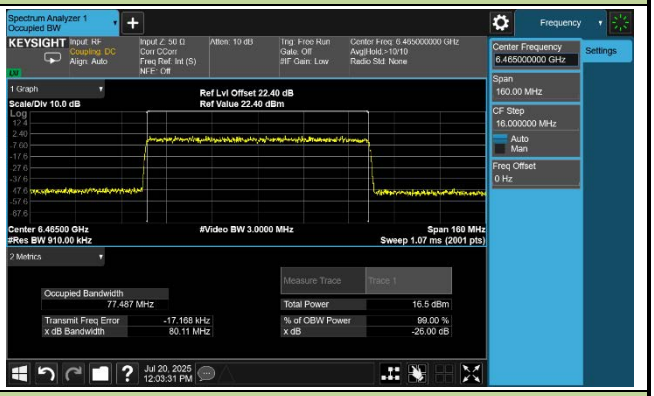
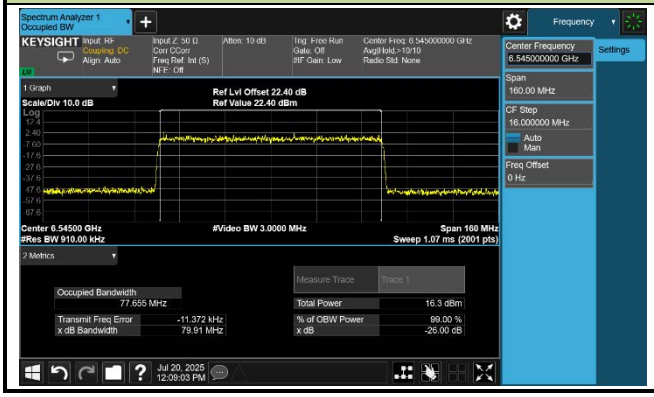
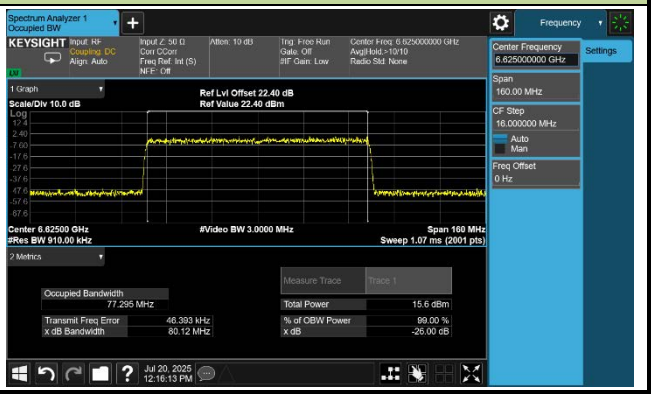
For channels with a nominal bandwidth of 320 MHz compliance is demonstrated by way of the 99% BW.

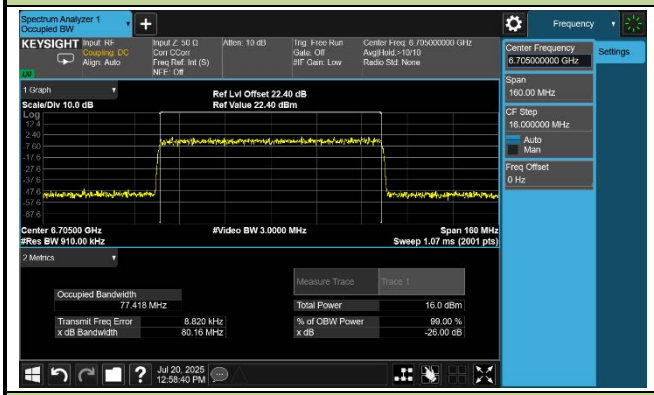
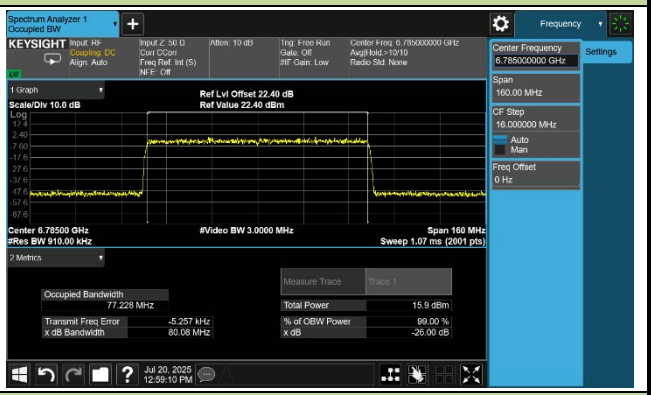
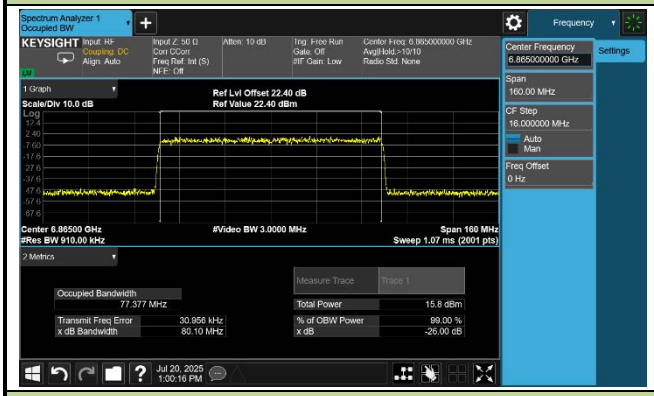
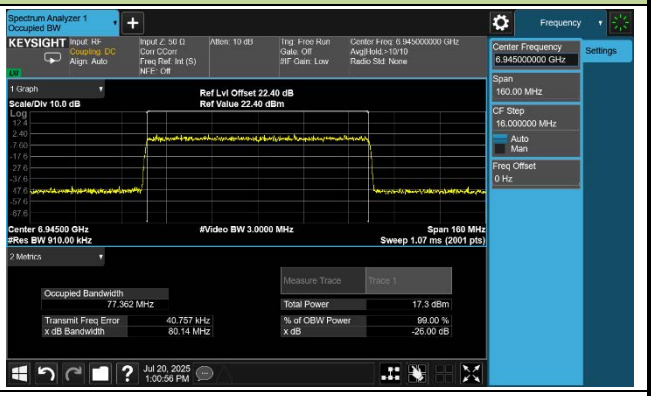
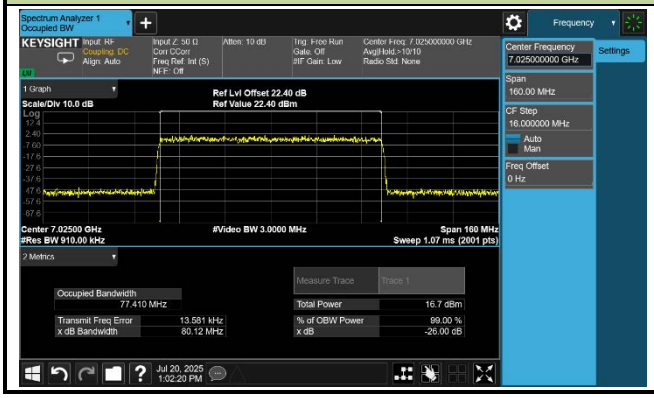
802.11ax-HE20 26 dB Bandwidth	
Channel 1 (5955 MHz)	Channel 49 (6195 MHz)
	
Channel 93 (6415 MHz)	Channel 97 (6435 MHz)
	
Channel 105 (6475 MHz)	Channel 113 (6515 MHz)
	

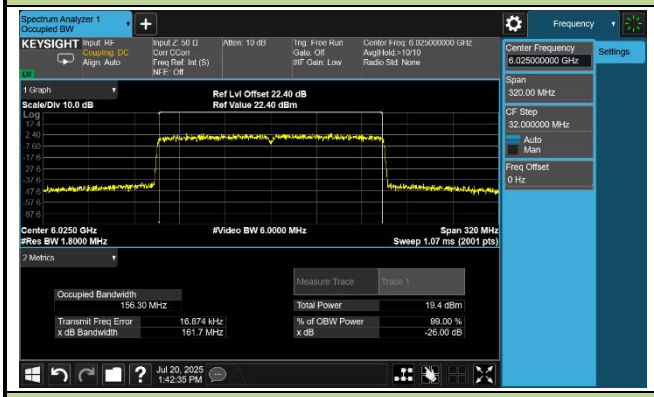
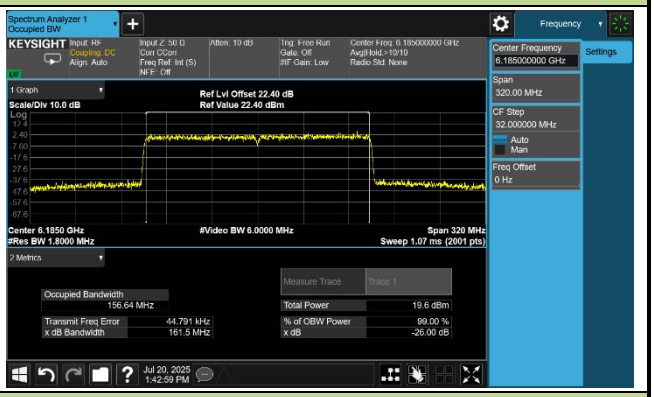
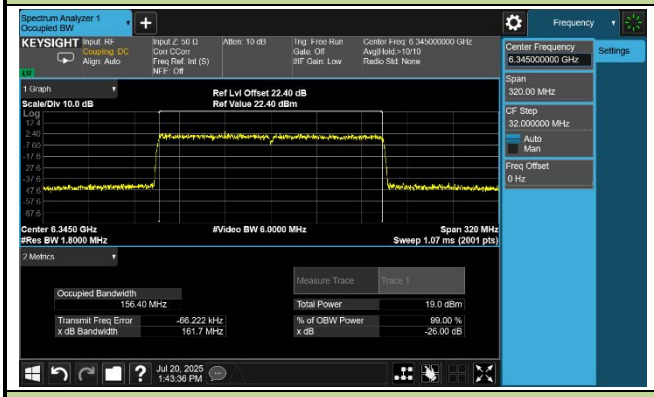
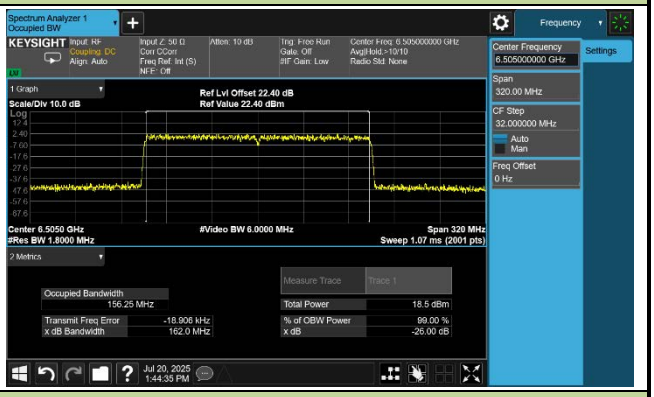
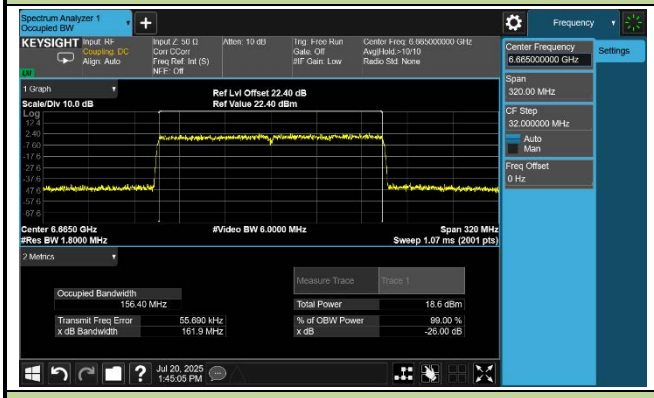
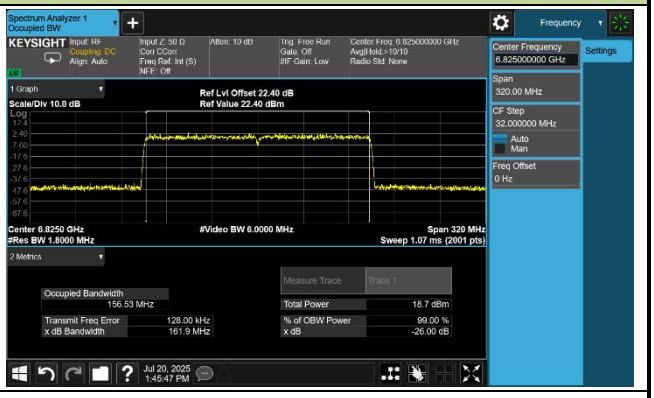
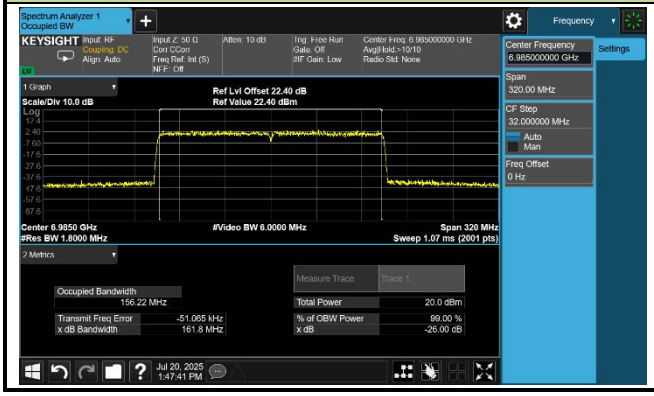
802.11ax-HE20 26 dB Bandwidth	
Channel 117 (6535 MHz)	Channel 149 (6695 MHz)
	
Channel 181 (6855 MHz)	Channel 185 (6875 MHz)
	
Channel 189 (6895 MHz)	Channel 209 (6995 MHz)
	
Channel 229 (7095 MHz)	
	

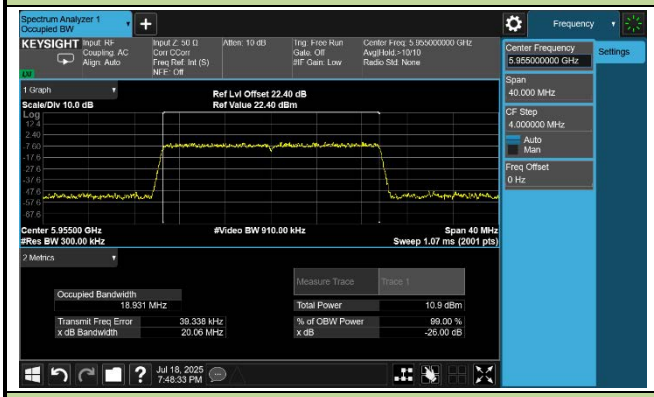
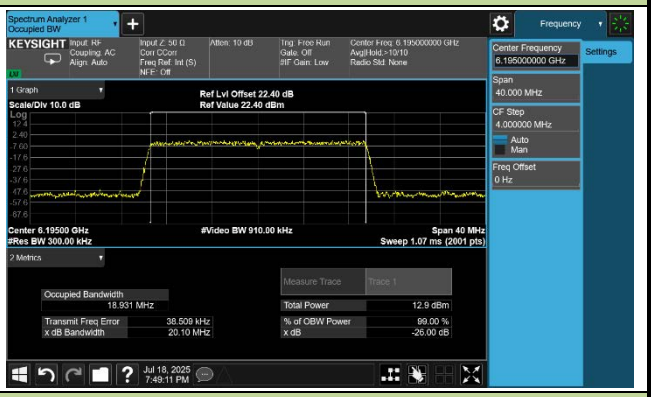
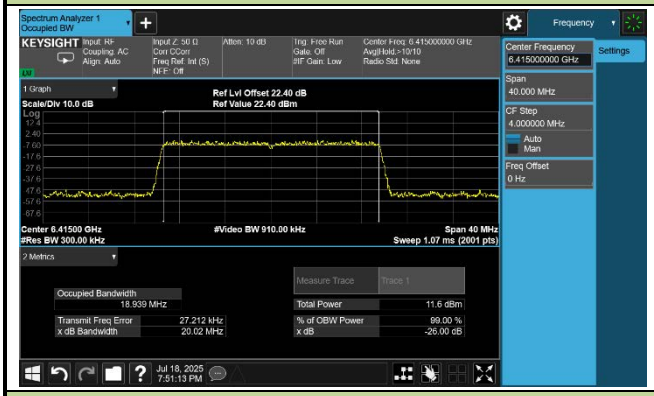
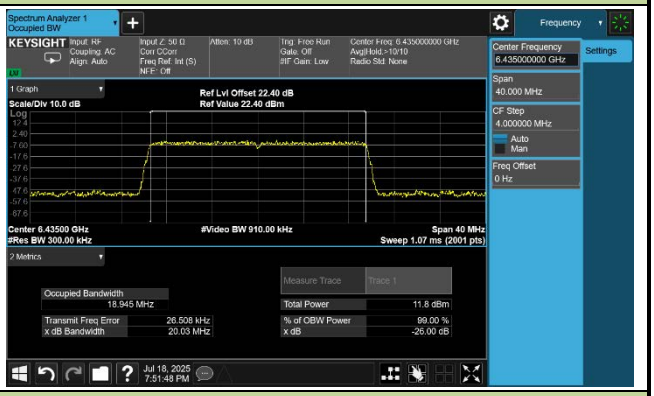
802.11ax-HE40 26 dB Bandwidth	
Channel 3 (5965 MHz)	Channel 51 (6205 MHz)
	
Channel 91 (6405 MHz)	Channel 99 (6445 MHz)
	
Channel 107 (6485 MHz)	Channel 115 (6525 MHz)
	

802.11ax-HE40 26 dB Bandwidth	
Channel 123 (6565 MHz)	Channel 147 (6685 MHz)
	
Channel 179 (6845 MHz)	Channel 187 (6885 MHz)
	
Channel 195 (6925 MHz)	Channel 211 (7005 MHz)
	
Channel 227 (7085 MHz)	
	

802.11ax-HE80 26 dB Bandwidth	
Channel 7 (5985 MHz)	Channel 55 (6225 MHz)
	
Channel 87 (6385 MHz)	Channel 103 (6465 MHz)
	
Channel 119 (6545 MHz)	Channel 135 (6625 MHz)
	

802.11ax-HE80 26 dB Bandwidth	
Channel 151 (6705 MHz)	Channel 167 (6785 MHz)
	
Channel 183 (6865 MHz)	Channel 199 (6945 MHz)
	
Channel 215 (7025 MHz)	
	

802.11ax-HE160 26 dB Bandwidth	
Channel 15 (6025 MHz)	Channel 47 (6185 MHz)
	
Channel 79 (6345 MHz)	Channel 111 (6505 MHz)
	
Channel 143 (6665 MHz)	Channel 175 (6825 MHz)
	
Channel 207 (6985 MHz)	
	

802.11be-EHT20 26 dB Bandwidth	
Channel 1 (5955 MHz)	Channel 49 (6195 MHz)
	
Channel 93 (6415 MHz)	Channel 97 (6435 MHz)
	
Channel 105 (6475 MHz)	Channel 113 (6515 MHz)