RF MEASUREMENT REPORT

FCC ID	:	**2BH7FEAP772OD**
Applicant	:	**TP-Link Systems Inc.**
Application Type	:	**Certification**
Product	:	**BE11000 Indoor/Outdoor Wi-Fi 7 Access Point**
Model No.	:	**EAP772-Outdoor**
Brand Name	:	**tp-link**
FCC Classification	:	**15E 6GHz Standard Power Access Point (6SD)**
FCC Rule Part(s)	:	**Part 15 Subpart E (Section 15.407)**
Received Date	:	**October 11, 2024**
Test Date	:	**October 17 ~ November 18, 2024**

Tested By : Kaunaz Lee
(Kaunaz Lee)

Reviewed By : Paddy Chen
(Paddy Chen)

Approved By : Chenz Ker
(Chenz Ker)

Testing Laboratory
3261

Revision History

Report No.	Version	Description	Issue Date	Note
2410TW0108-U6	1.0	Original Report	2024-12-02	Invalid
2410TW0108-U6	2.0	Change the description of Beamforming mode	2025-02-27	Valid

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General Information

Applicant	TP-Link Systems Inc.
Applicant Address	10 Mauchly, Irvine, CA 92618
Manufacturer	TP-Link Systems Inc.
Manufacturer Address	10 Mauchly, Irvine, CA 92618
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.407

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

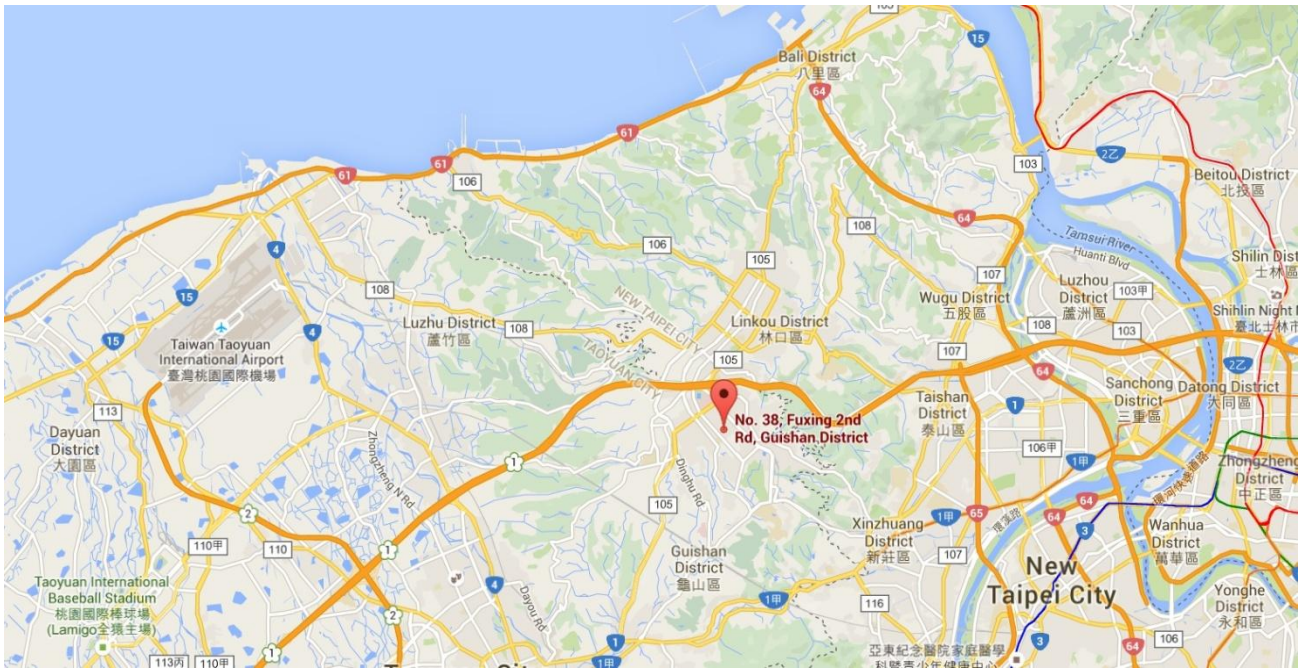
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. Product Information

2.1. Equipment Description

Product Name	BE11000 Indoor/Outdoor Wi-Fi 7 Access Point
Model No.	EAP772-Outdoor
Brand Name	tp-link
Bluetooth Specification	Bluetooth v5.2-LE Mode
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
EUT Identification No.:	#1-1 (Conducted) #1-2 (Radiated)

2.2. Radio Specification

Frequency Range	For 802.11ax-HE20/be-EHT20: 6115 ~ 6415MHz, 6535 ~ 6855MHz For 802.11ax-HE40/be-EHT40: 6125 ~ 6405MHz, 6565 ~ 6845MHz For 802.11ax-HE80/be-EHT80: 6145 ~ 6385MHz, 6625 ~ 6785MHz For 802.11ax-HE160/be-EHT160: 6185 ~ 6345MHz, 6665MHz For 802.11be-EHT320: 6105MHz
Type of Modulation	802.11ax/be: OFDMA
Data Rate	802.11ax: up to 2402Mbps 802.11be: up to 5764Mbps

2.3. Working Frequencies

802.11ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
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	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

802.11ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
35	6125 MHz	43	6165 MHz	51	6205 MHz
59	6245 MHz	67	6285 MHz	75	6325 MHz
83	6365 MHz	91	6405 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	--	--	--	--

802.11ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
39	6145 MHz	55	6225 MHz	71	6305 MHz
87	6385 MHz	135	6625 MHz	151	6705 MHz
167	6785 MHz	--	--	--	--

802.11ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
47	6185 MHz	79	6345 MHz	143	6665 MHz

802.11be-EHT320

Channel	Frequency	Channel	Frequency	Channel	Frequency
63	6265 MHz	--	--	--	--

2.4. Antenna Details

Antenna Type	Frequency Band (MHz)	T_X Paths	Max Antenna Gain (dBi)	Max. Antenna Gain (Elevation angle above 30°) (dBi)	Beamforming Directional Gain (dBi)	Beamforming Directional Gain (Elevation angle above 30°) (dBi)	CDD Directional Gain (dBi)	
							For Power	For PSD
Horizontal Antenna (TP-LINK P/N: 3101507197, 3101507198, 3101507195, 3101507196)								
Dipole	2412 ~ 2462	2	2.00	--	5.01	--	2.00	5.01
	5150 ~ 5250	2	2.48	-6.38	5.49	-3.37	2.48	5.49
	5250 ~ 5350	2	2.50	--	5.51	--	2.50	5.51
	5470 ~ 5725	2	3.00	--	6.01	--	3.00	6.01
	5725 ~ 5850	2	2.97	--	5.98	--	2.97	5.98
Franklin	5945 ~ 6425	2	3.00	-6.15	6.01	-3.14	3.00	6.01
	6525 ~ 6885	2	3.00	-7.07	6.01	-4.06	3.00	6.01
Vertical Antenna (TP-LINK P/N: 3101507199)								
Alford	2412 ~ 2462	2	2.00	--	5.01	--	2.00	5.01

Note:

1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

   If all antennas have the same gain, G_{ANT}, Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

   - For power spectral density (PSD) measurements on all devices,

   Array Gain = 10 log (N_{ANT}/ N_{SS}) dB;

   - For power measurements on IEEE 802.11 devices,

   Array Gain = 0 dB for $N_{ANT} \leq 4$;

2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11ac/ax/be, not include 802.11a/b/g/n. BF Directional gain = G_{ANT} + 10 log (N_{ANT}).
3. The Messages as above is from the antenna specifications.

Test Mode	T_X Paths	CDD Mode	Beamforming Mode
802.11b/g/n (DTS)	2	√	X
802.11ax/be (DTS)	2	√	√
802.11a/n (NII)	2	√	X
802.11ac/ax/be (NII)	2	√	√
802.11ax/be (6SD)	2	√	√

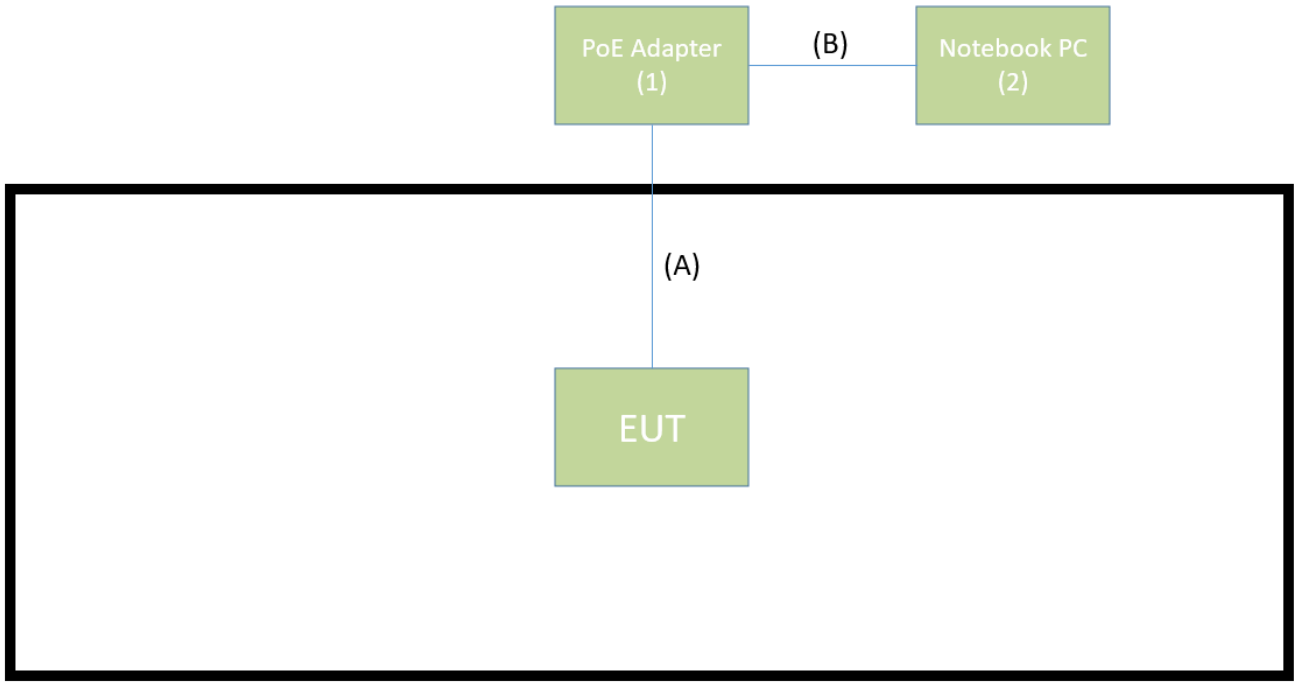
2.5. Test Mode

CDD Mode
Mode 1: Transmit by 802.11ax-HE20_Nss=1 (MCS0)
Mode 2: Transmit by 802.11ax-HE40_Nss=1 (MCS0)
Mode 3: Transmit by 802.11ax-HE80_Nss=1 (MCS0)
Mode 4: Transmit by 802.11ax-HE160_Nss=1 (MCS0)
Mode 5: Transmit by 802.11be-EHT20_Nss=1 (MCS0)
Mode 6: Transmit by 802.11be-EHT40_Nss=1 (MCS0)
Mode 7: Transmit by 802.11be-EHT80_Nss=1 (MCS0)
Mode 8: Transmit by 802.11be-EHT160_Nss=1 (MCS0)
Mode 9: Transmit by 802.11be-EHT320_Nss=1 (MCS0)
Remark: 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. 2. For Beamforming operation, manufacturer automatically backs power down based on a 10log(N_{ANT}) factor based on CDD power. Therefore, only the CDD mode was evaluated in this report. 3. EUT supports one configuration only in 802.11ax/be full RU mode.

2.6. 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



Signal Cable Type		Signal Cable Description
A	LAN Cable	Non-shielded, 2.4m
B	LAN Cable	Non-shielded, 3.0m

2.7. Test System Details

No.	Product	Brand	Model No.	Serial No.	Power Cord
1	PoE Adapter	TP-Link	TL-POE4824G	N/A	Non-shielded, 0.5m
2	Notebook PC	Lenovo	V14G3ABA	N/A	Non-shielded, 0.8m

2.8. Test Software

The test utility software used during testing was “QSPR”, and the version was v5.0-00202.

Note: Final power setting please refer to operational description.

2.9. Applied Standards

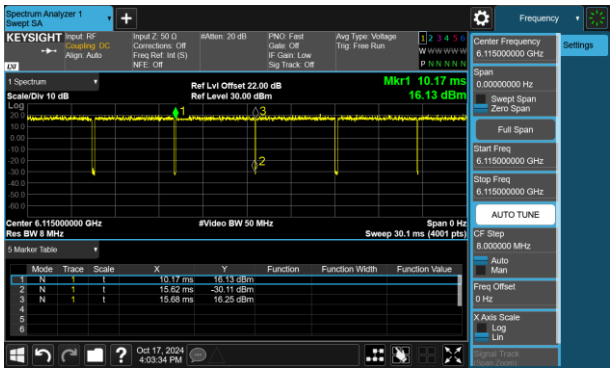
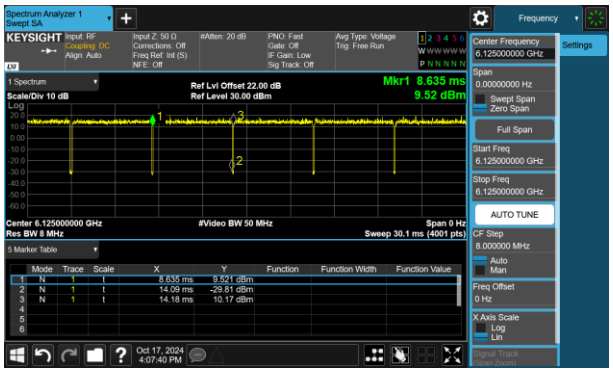
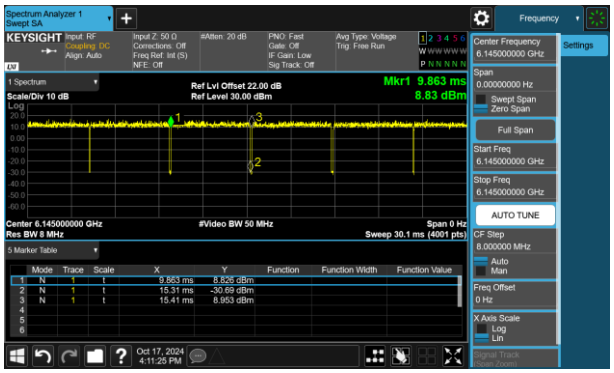
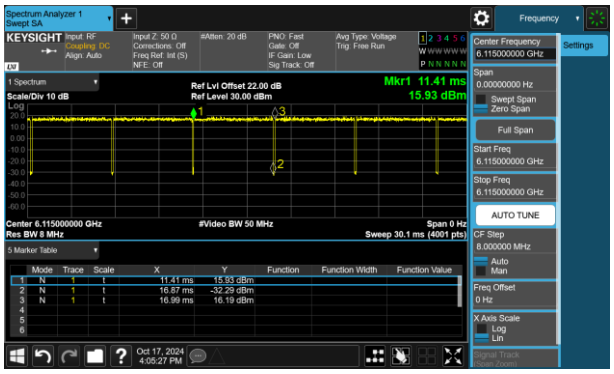
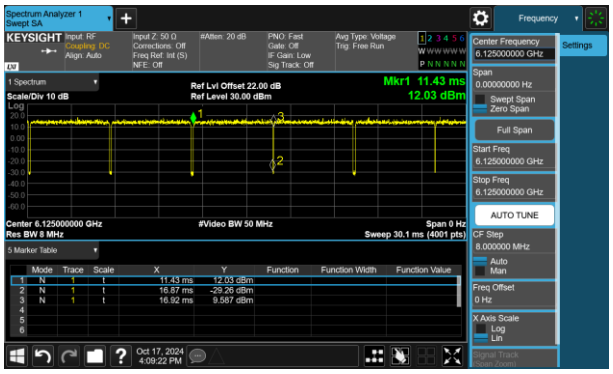
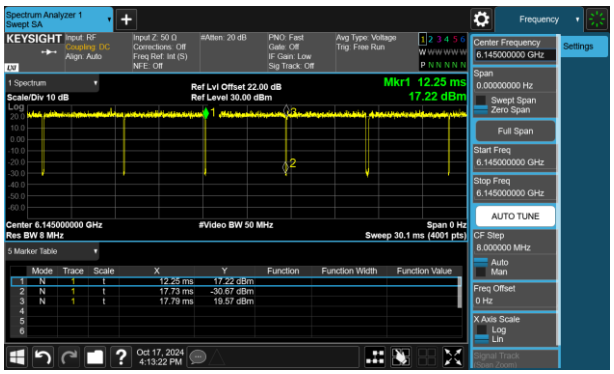
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

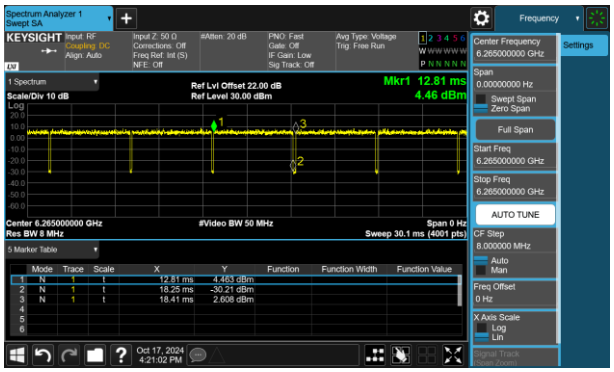
- ANSI C63.10-2013
- FCC KDB 789033 D02v02r01
- FCC KDB 987594 D02v03
- FCC KDB 662911 D01v02r01
- FCC KDB 414788 D01v01r01
- FCC KDB 412172 D01v01r01

2.10. Duty Cycle

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11ax-HE20	98.91%
802.11ax-HE40	98.38%
802.11ax-HE80	98.20%
802.11ax-HE160	98.02%
802.11be-EHT20	97.85%
802.11be-EHT40	99.09%
802.11be-EHT80	98.92%
802.11be-EHT160	99.82%
802.11be-EHT320	97.14%

Duty Cycle (T = Transmission Duration)	
802.11ax-HE20	802.11ax-HE40
	
802.11ax-HE80	802.11ax-HE160
	
802.11be-EHT20	802.11be-EHT40
	
802.11be-EHT80	802.11be-EHT160
	

Duty Cycle (T = Transmission Duration)	
802.11be-EHT320	
	

2.11. Test Environment Condition

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

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2025/3/5
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2025/4/21
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2025/5/14
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2025/6/2

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Acitve Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2025/5/7
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2025/11/5
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2025/5/20
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2025/5/14
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2025/3/26
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2025/3/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2025/3/5
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2025/6/20
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2025/6/25
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2025/6/2

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2025/4/16
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2025/9/24
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2025/8/12
Attenuator	WTI	218FS-20	MRTTWE00026	1 year	2024/12/1
Attenuator	WTI	218FS-10	MRTTWE00027	1 year	2025/6/13
Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2025/6/6
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2025/6/2

Software	**Version**	**Function**
e3	9.160520a	EMI Test Software

5. 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
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 150kHz~30MHz: ± 2.53dB
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 9kHz ~ 1GHz: ± 4.25dB 1GHz ~ 40GHz: ± 4.45dB
Conducted Power (Carrier Power / Power Density)
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ± 0.84dB
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):± 2.65 dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ± 3.3%
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±0.82°C/ ±3%
Frequency Error
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±78.4Hz

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)	26dB Bandwidth	Conducted	Pass
15.407(a)(5), (a)(6)	Maximum Equivalent Isotopically Radiated Power (E.I.R.P)		Pass
15.407(a)(5), (a)(6)	Peak Power Spectral Density (E.I.R.P)		Pass
15.407(b)(6)	In-Band Emission		Pass
15.407(b)(5)	Unwanted Emissions		Pass
15.407(b)(7), (8), (9)	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Remark:

1. Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part ofthe system to connect the EUT to the analyzer at all frequencies of interest.
3. Output power test was verified over all data rates of each mode (data refers to operational description), and then choose the maximum power output (low data rate) for final test of each channel.
4. For radiated emission test, the test results shown in the following sections represent the worst-case emissions.

6.2. 26dB Bandwidth

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 used

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

KDB 789033 D02v02r01- Section D (99% Bandwidth)

6.2.3. Test Setting

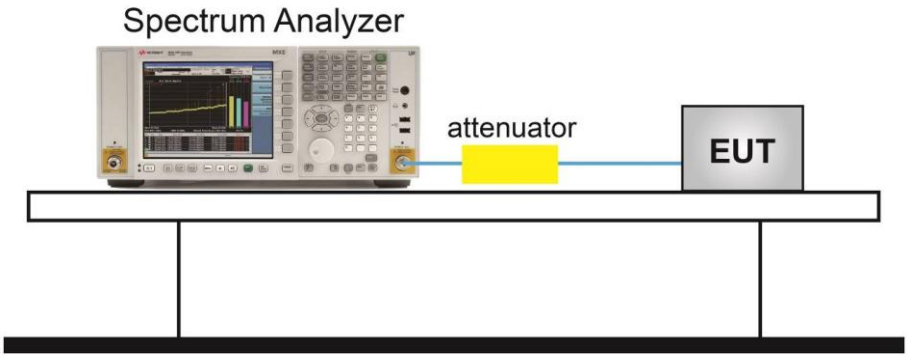
26dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW ≥ 3×RBW
5. Detector = Peak.
6. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup



6.2.5. Test Result

Test Site	SR6	Test Engineer	Peter
Test Date	2024/11/1		

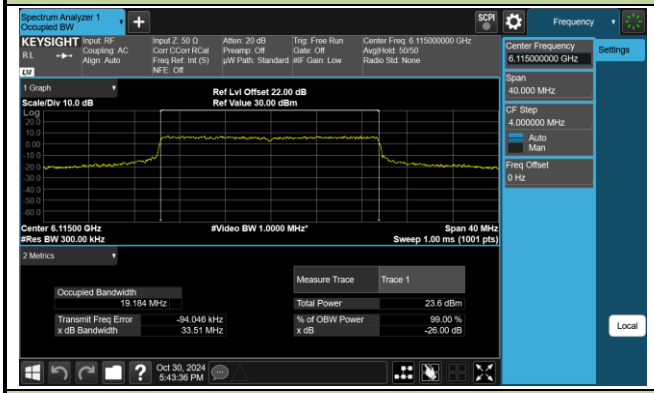
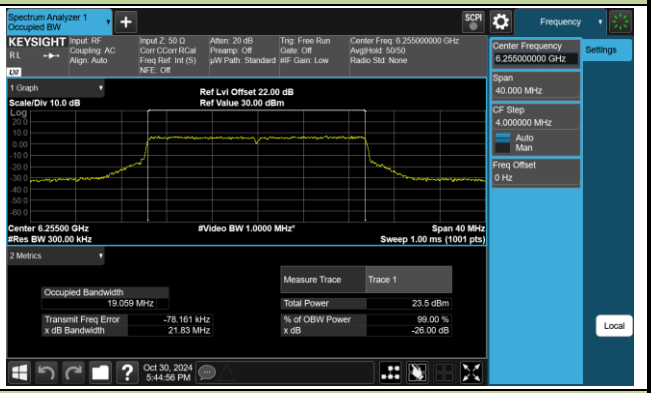
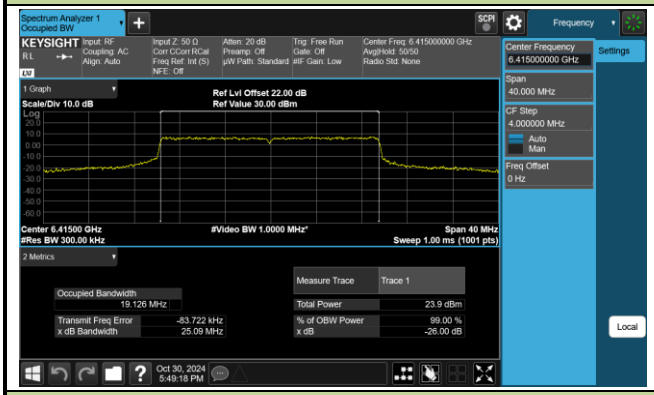
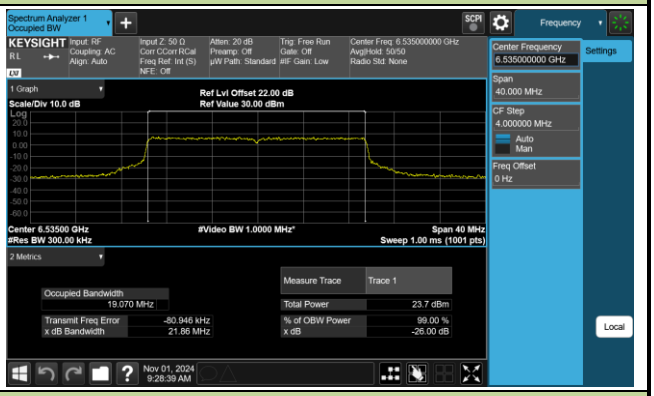
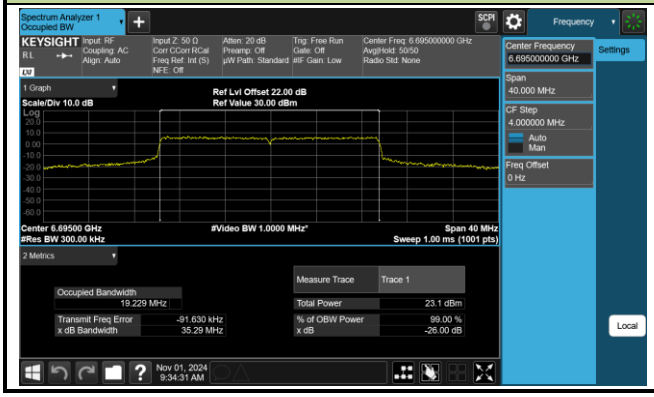
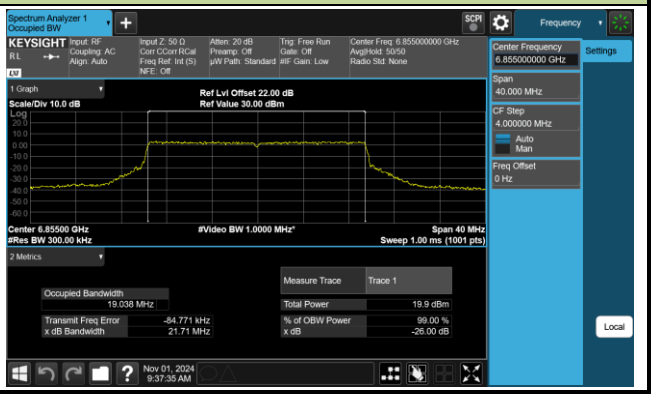
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
802.11ax-HE20	MCS0	33	6115	33.510	19.184	≤ 320
802.11ax-HE20	MCS0	61	6255	21.830	19.059	≤ 320
802.11ax-HE20	MCS0	93	6415	25.090	19.126	≤ 320
802.11ax-HE20	MCS0	117	6535	21.860	19.070	≤ 320
802.11ax-HE20	MCS0	149	6695	35.290	19.229	≤ 320
802.11ax-HE20	MCS0	181	6855	21.710	19.038	≤ 320
802.11ax-HE40	MCS0	35	6125	44.890	38.011	≤ 320
802.11ax-HE40	MCS0	59	6245	41.130	37.918	≤ 320
802.11ax-HE40	MCS0	91	6405	44.780	38.019	≤ 320
802.11ax-HE40	MCS0	123	6565	42.340	37.927	≤ 320
802.11ax-HE40	MCS0	147	6685	44.750	37.940	≤ 320
802.11ax-HE40	MCS0	179	6845	41.040	37.905	≤ 320
802.11ax-HE80	MCS0	39	6145	95.410	77.738	≤ 320
802.11ax-HE80	MCS0	55	6225	87.570	77.682	≤ 320
802.11ax-HE80	MCS0	87	6385	93.980	77.771	≤ 320
802.11ax-HE80	MCS0	119	6545	86.670	77.657	≤ 320
802.11ax-HE80	MCS0	135	6625	111.500	78.014	≤ 320
802.11ax-HE80	MCS0	151	6705	134.500	78.078	≤ 320
802.11ax-HE80	MCS0	167	6785	89.510	77.718	≤ 320
802.11ax-HE160	MCS0	47	6185	167.000	157.190	≤ 320
802.11ax-HE160	MCS0	79	6345	215.900	157.430	≤ 320
802.11ax-HE160	MCS0	143	6665	177.400	157.150	≤ 320
802.11be-EHT20	MCS0	33	6115	26.690	19.148	≤ 320
802.11be-EHT20	MCS0	61	6255	21.780	19.028	≤ 320
802.11be-EHT20	MCS0	93	6415	25.240	19.134	≤ 320
802.11be-EHT20	MCS0	117	6535	21.870	19.070	≤ 320
802.11be-EHT20	MCS0	149	6695	31.010	19.190	≤ 320
802.11be-EHT20	MCS0	181	6855	21.770	19.056	≤ 320

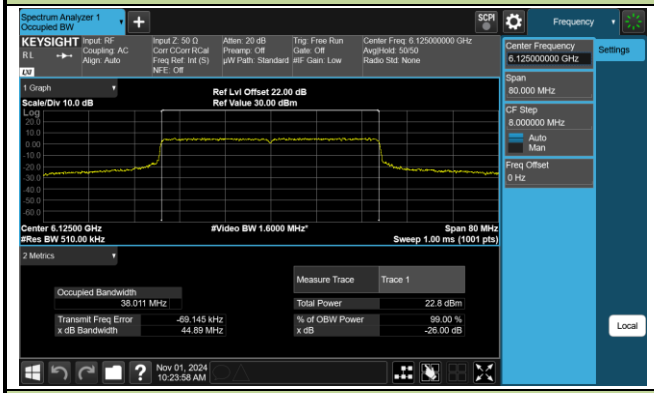
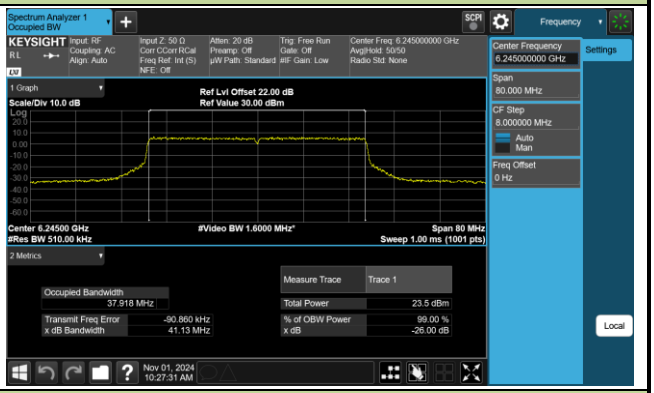
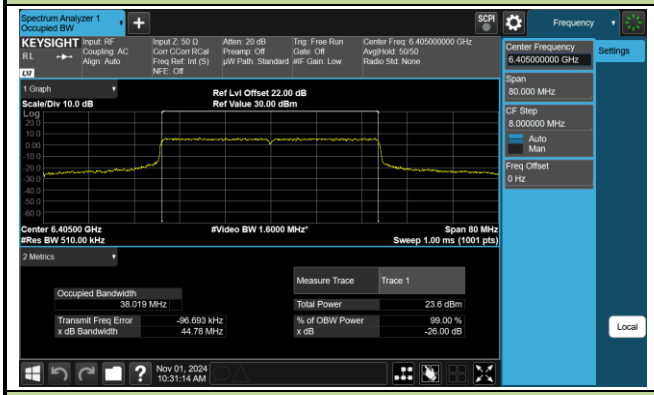
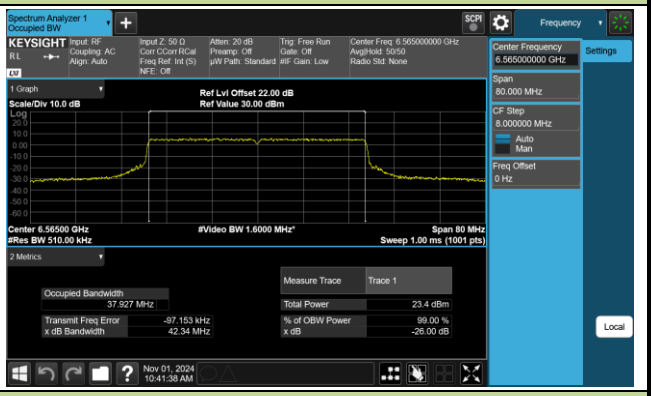
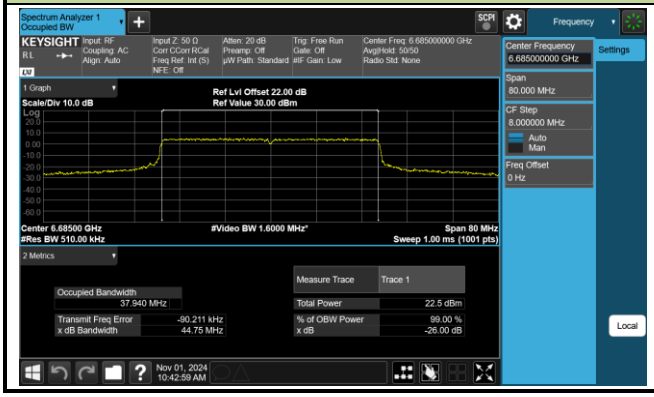
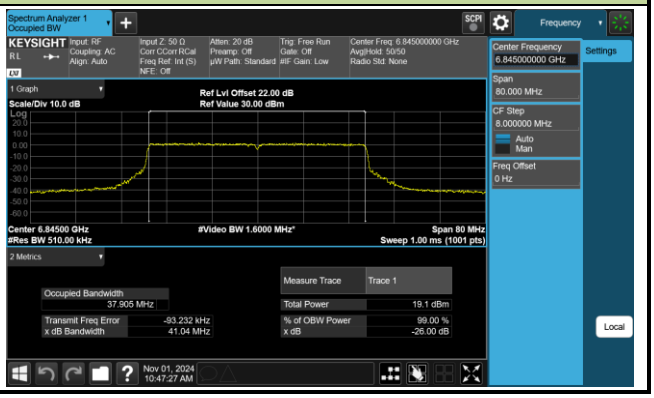
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
802.11be-EHT40	MCS0	35	6125	44.670	38.035	≤ 320
802.11be-EHT40	MCS0	59	6245	41.270	37.902	≤ 320
802.11be-EHT40	MCS0	91	6405	60.930	38.101	≤ 320
802.11be-EHT40	MCS0	123	6565	44.310	38.030	≤ 320
802.11be-EHT40	MCS0	147	6685	44.190	37.963	≤ 320
802.11be-EHT40	MCS0	179	6845	41.170	37.932	≤ 320
802.11be-EHT80	MCS0	39	6145	97.690	77.747	≤ 320
802.11be-EHT80	MCS0	55	6225	87.290	77.609	≤ 320
802.11be-EHT80	MCS0	87	6385	125.200	78.001	≤ 320
802.11be-EHT80	MCS0	119	6545	86.790	77.600	≤ 320
802.11be-EHT80	MCS0	135	6625	114.300	77.833	≤ 320
802.11be-EHT80	MCS0	151	6705	122.300	77.969	≤ 320
802.11be-EHT80	MCS0	167	6785	87.250	77.591	≤ 320
802.11be-EHT160	MCS0	47	6185	165.200	157.020	≤ 320
802.11be-EHT160	MCS0	79	6345	163.600	157.080	≤ 320
802.11be-EHT160	MCS0	143	6665	163.100	156.970	≤ 320
802.11be-EHT320	MCS0	63	6265	327.600	315.400	≤ 320
802.11be-EHT320	MCS0	127	6585	327.500	315.210	≤ 320

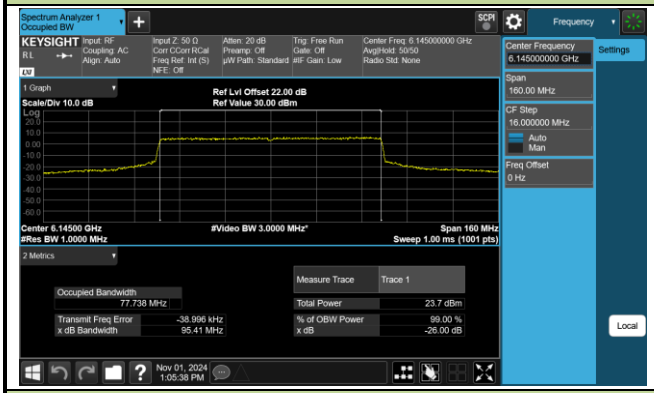
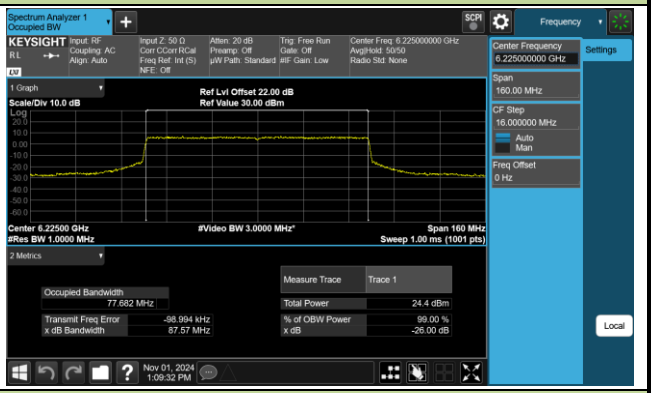
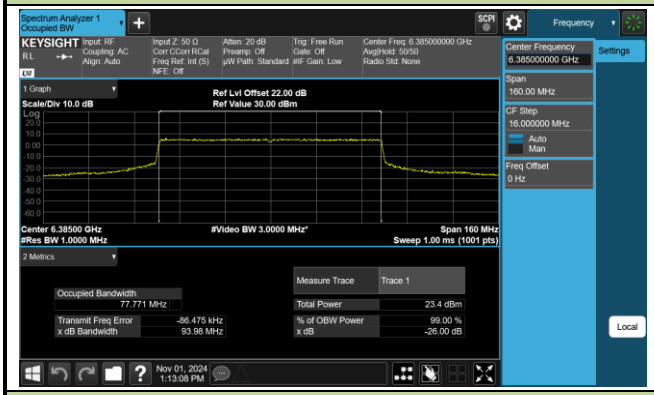
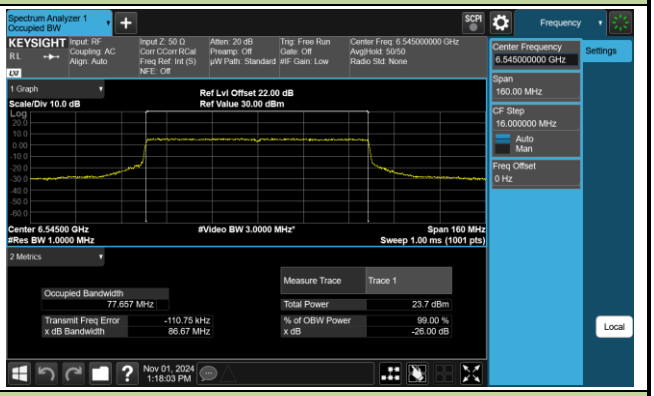
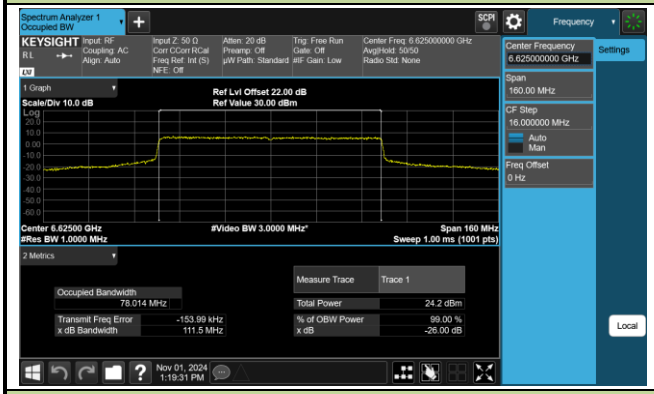
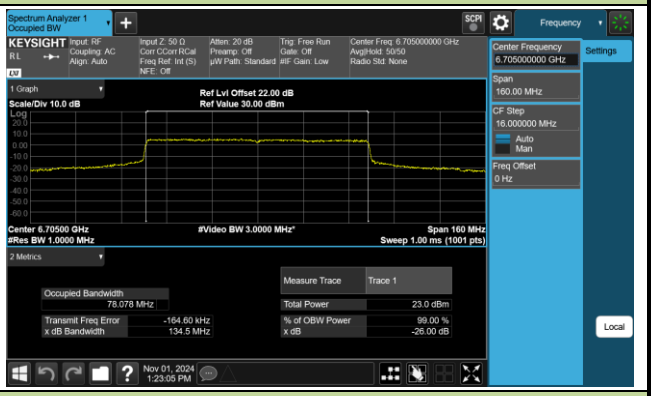
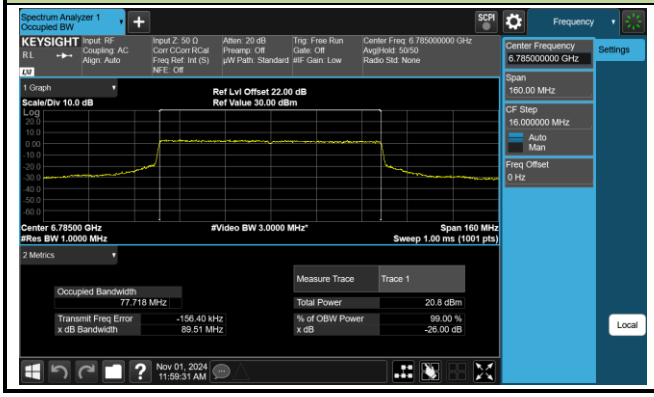
Note:

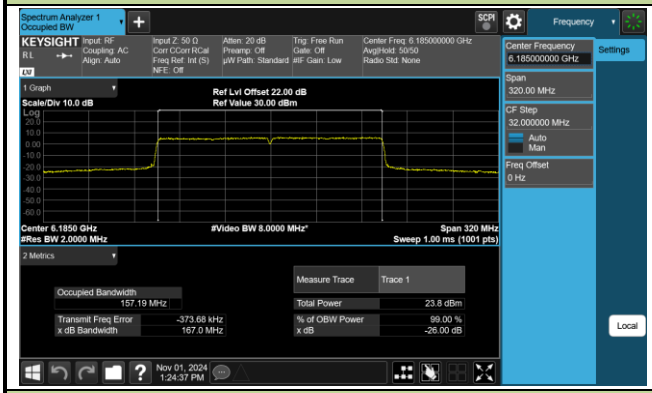
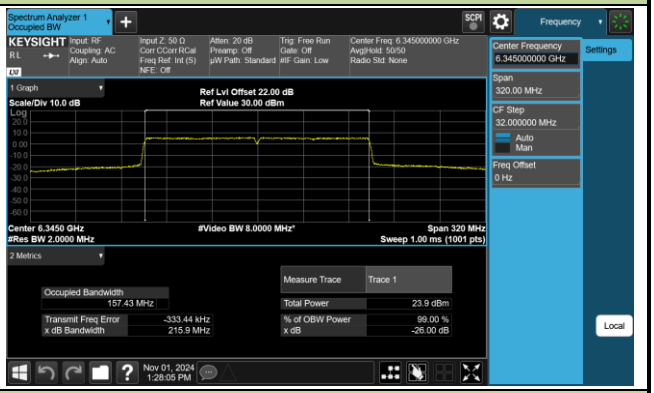
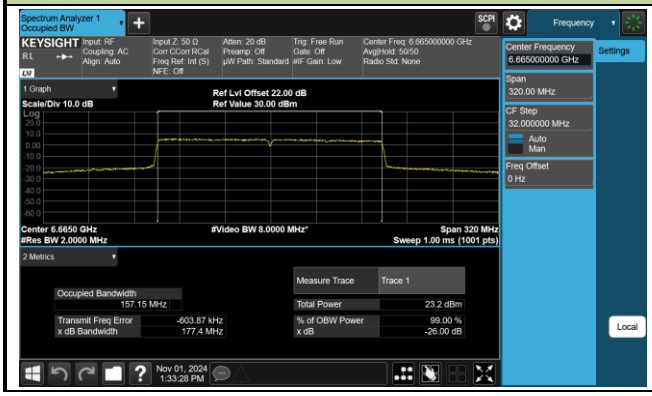
For channels with a nominal bandwidth less than 320 MHz compliance is demonstrated by way of the 26 dB EBW.

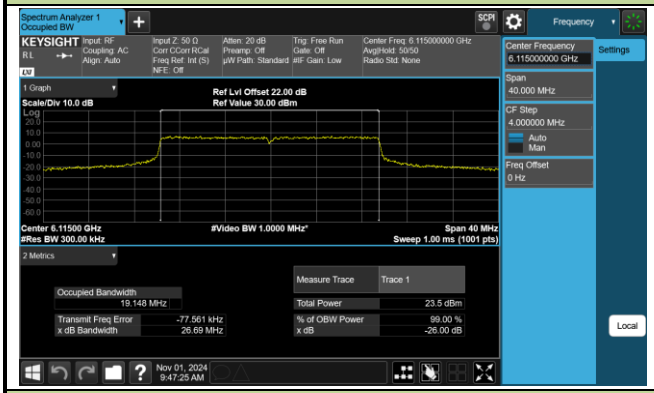
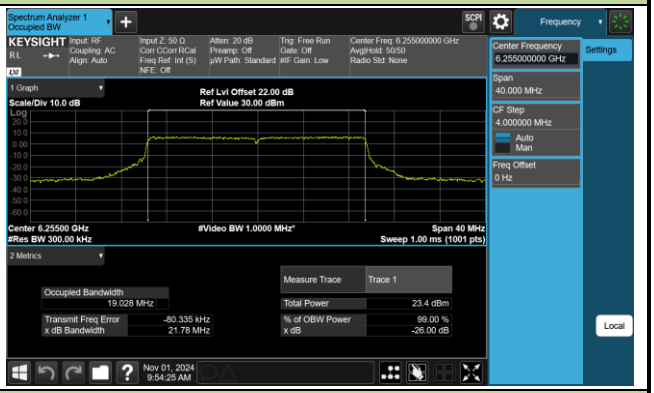
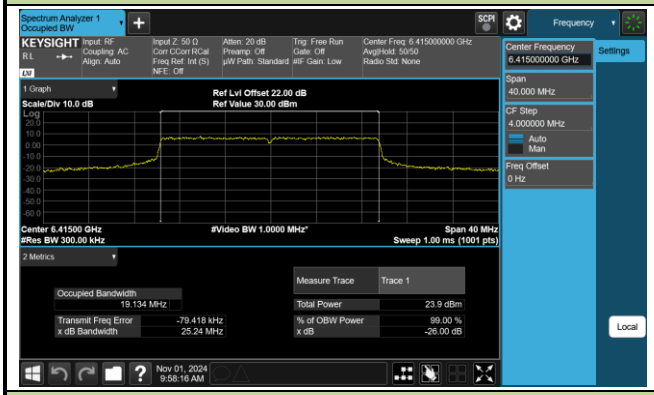
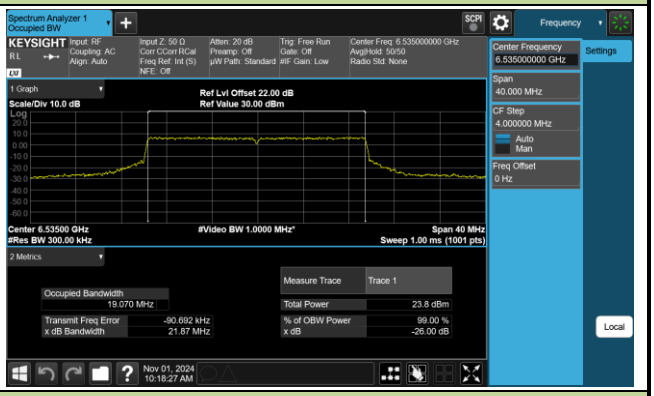
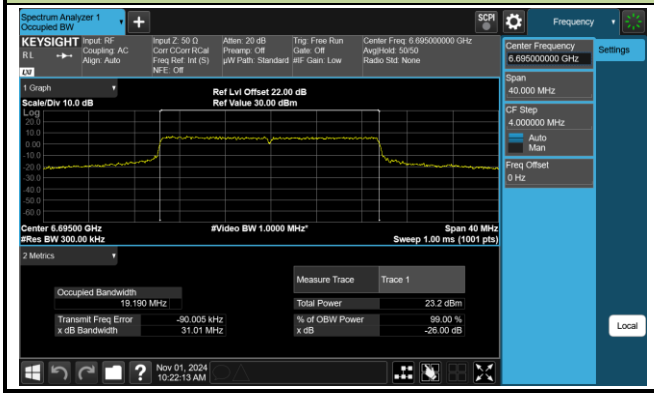
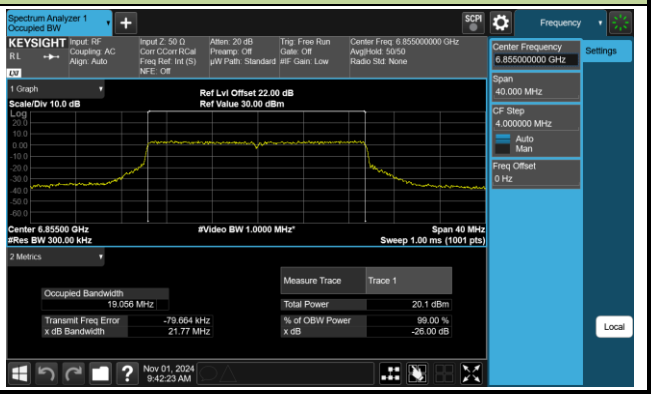
For channels with a nominal bandwidth of 320 MHz compliance is demonstrated by way of the 99% BW.

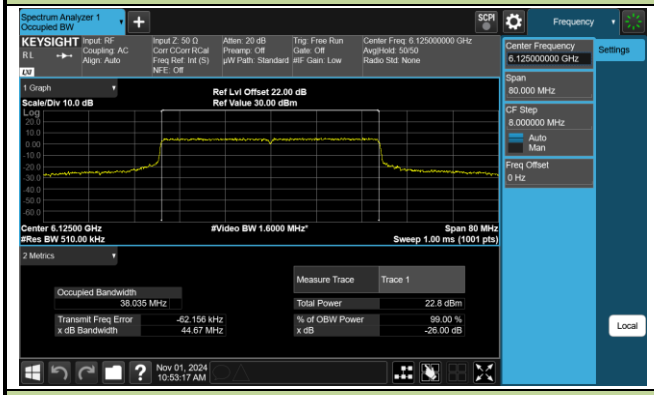
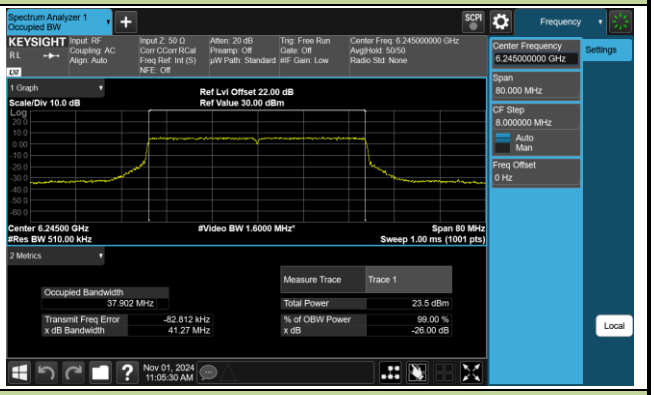
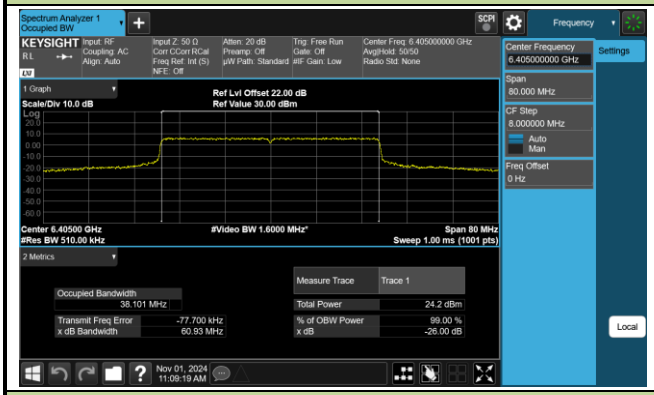
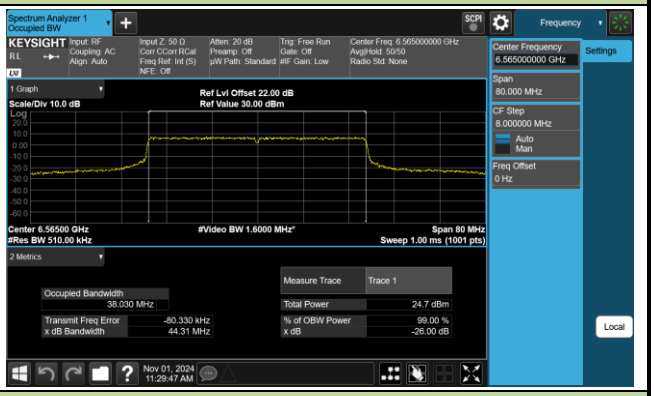
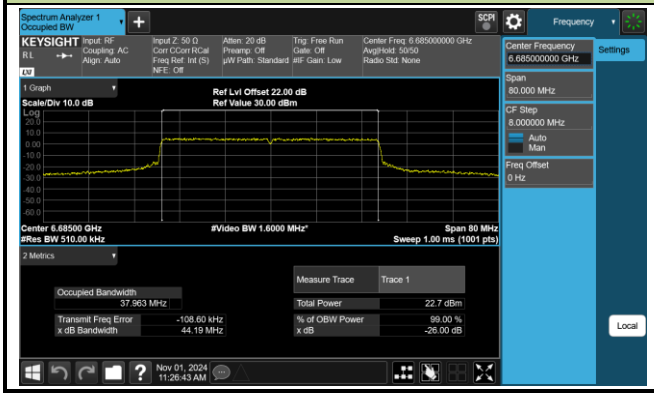
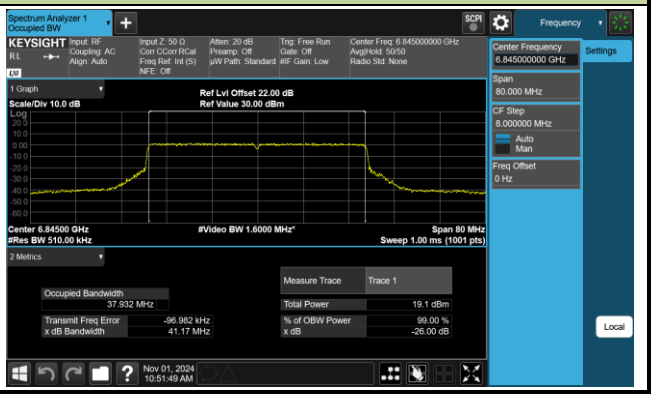
802.11ax-HE20 26dB Bandwidth & 99% Bandwidth	
Channel 33 (6115MHz)	Channel 61 (6255MHz)
	
Channel 93 (6415MHz)	Channel 117 (6535MHz)
	
Channel 149 (6695MHz)	Channel 181 (6855MHz)
	

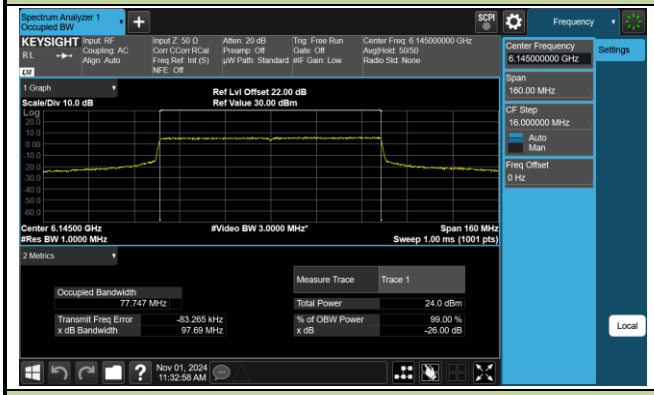
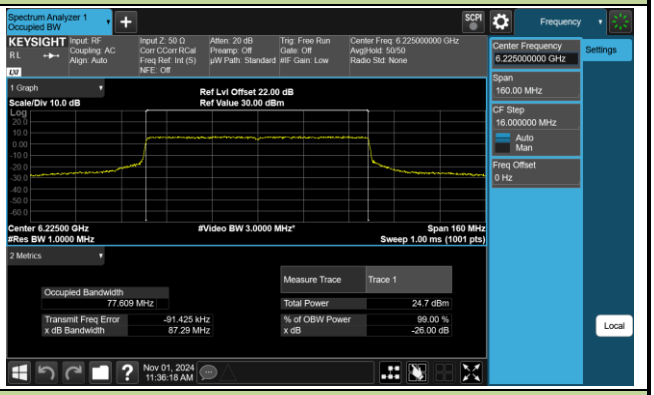
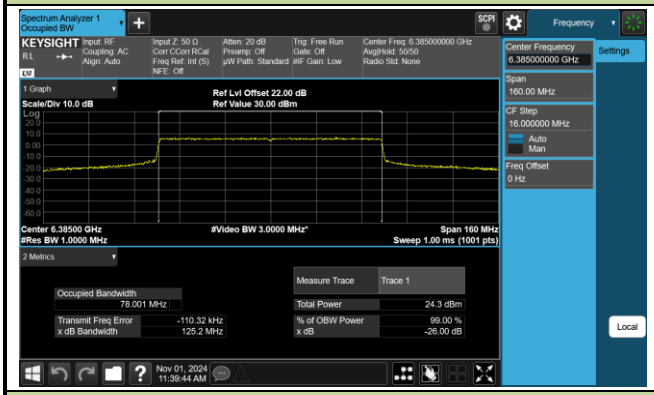
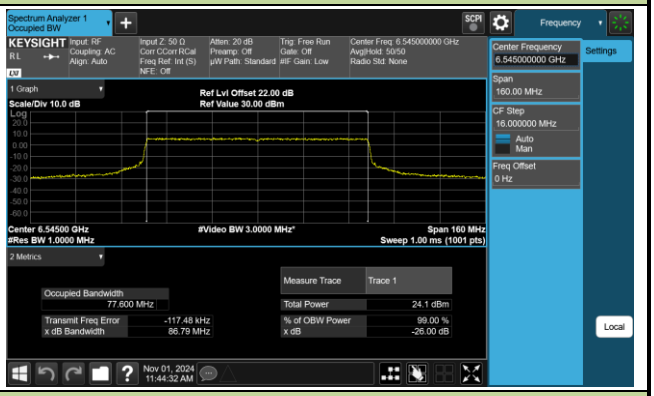
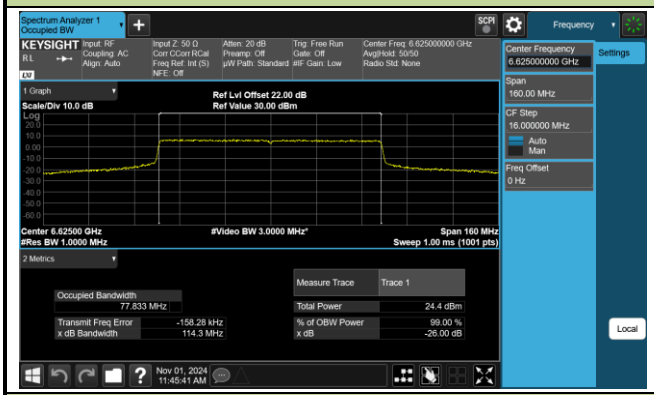
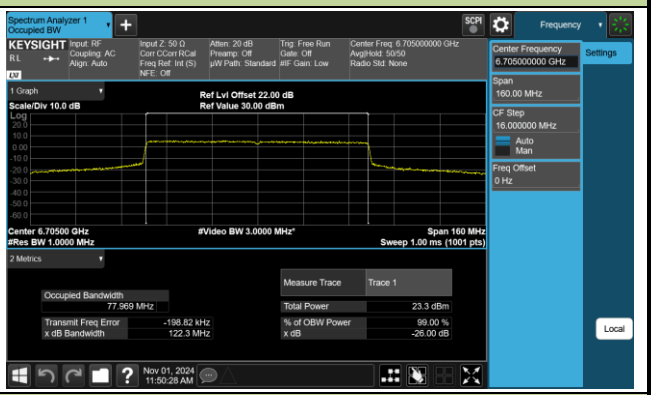
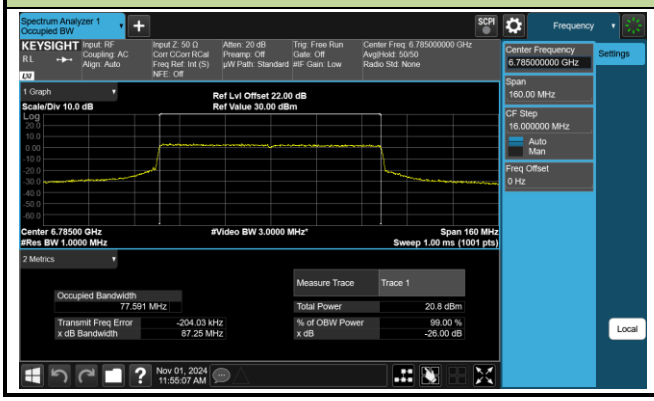
802.11ax-HE40 26dB Bandwidth & 99% Bandwidth	
Channel 35 (6125MHz)	Channel 59 (6245MHz)
	
Channel 91 (6405MHz)	Channel 123 (6565MHz)
	
Channel 147 (6685MHz)	Channel 179 (6845MHz)
	

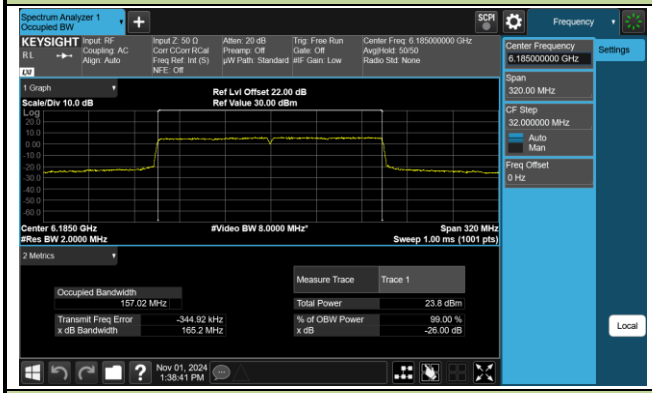
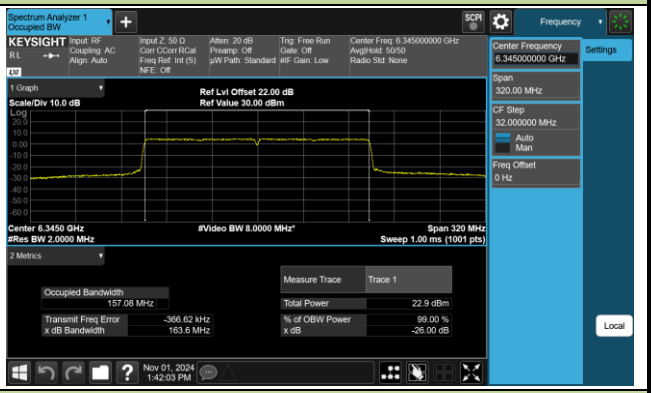
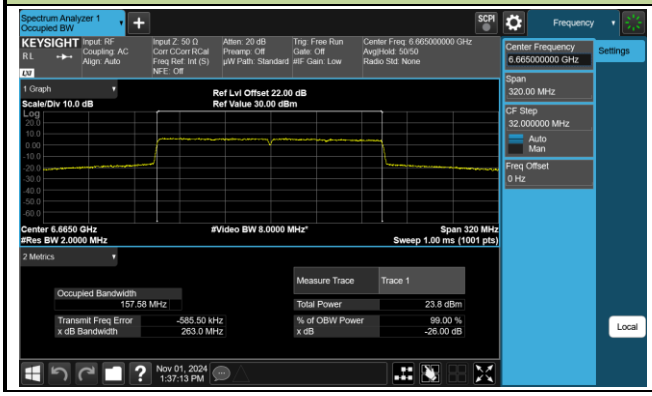
802.11ax-HE80 26dB Bandwidth & 99% Bandwidth	
Channel 39 (6145MHz)	Channel 55 (6225MHz)
	
Channel 87 (6385MHz)	Channel 119 (6545MHz)
	
Channel 135 (6625MHz)	Channel 151 (6705MHz)
	
Channel 167 (6785MHz)	
	

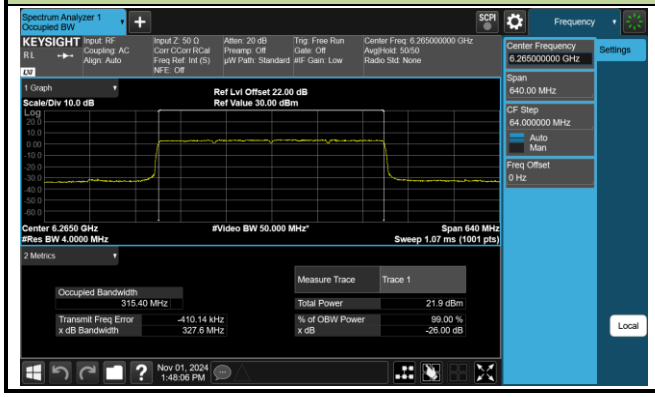
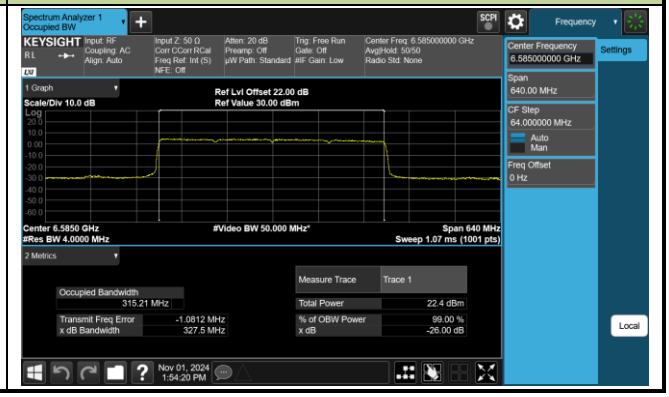
802.11ax-HE160 26dB Bandwidth & 99% Bandwidth	
Channel 47 (6185MHz)	Channel 79 (6345MHz)
	
Channel 143 (6665MHz)	
	

802.11be-EHT20 26dB Bandwidth & 99% Bandwidth	
Channel 33 (6115MHz)	Channel 61 (6255MHz)
	
Channel 93 (6415MHz)	Channel 117 (6535MHz)
	
Channel 149 (6695MHz)	Channel 181 (6855MHz)
	

802.11be-EHT40 26dB Bandwidth & 99% Bandwidth	
Channel 35 (6125MHz)	Channel 59 (6245MHz)
	
Channel 91 (6405MHz)	Channel 123 (6565MHz)
	
Channel 147 (6685MHz)	Channel 179 (6845MHz)
	

802.11be-EHT80 26dB Bandwidth & 99% Bandwidth	
Channel 39 (6145MHz)	Channel 55 (6225MHz)
	
Channel 87 (6385MHz)	Channel 119 (6545MHz)
	
Channel 135 (6625MHz)	Channel 151 (6705MHz)
	
Channel 167 (6785MHz)	
	

802.11be-EHT160 26dB Bandwidth & 99% Bandwidth	
Channel 47 (6185MHz)	Channel 79 (6345MHz)
	
Channel 143 (6665MHz)	
	

802.11be-EHT320 26dB Bandwidth & 99% Bandwidth	
Channel 63 (6265MHz)	Channel 127 (6585MHz)
	

6.3. Output Power

6.3.1. Test Limit

For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

6.3.2. Test Procedure Used

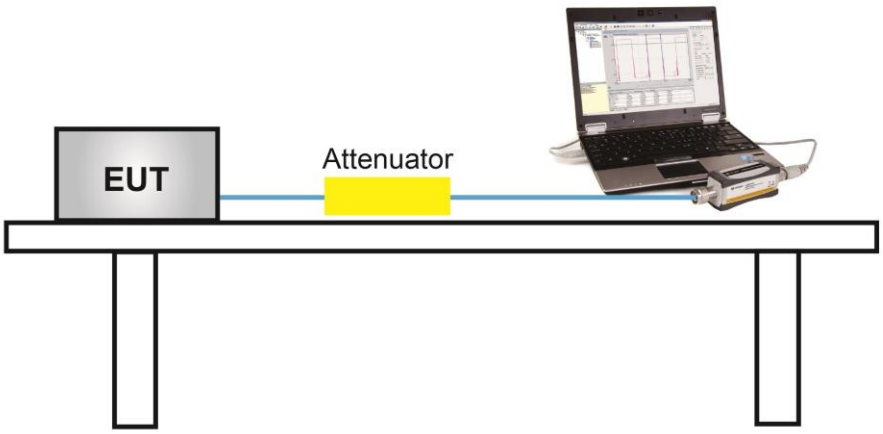
KDB 789033D02v02r01- Section E)3)b) Method PM-G

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

Test Site	SR6	Test Engineer	Peter
Test Date	2024/10/29	Test Mode	Nss=1

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total AV Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1			
CDD mode								
11ax-HE20	MCS0	33	6115	23.55	24.64	27.14	30.14	≤ 36.00
11ax-HE20	MCS0	61	6255	23.65	24.45	27.08	30.08	≤ 36.00
11ax-HE20	MCS0	93	6415	23.31	24.25	26.82	29.82	≤ 36.00
11ax-HE20	MCS0	117	6535	23.80	24.55	27.20	30.20	≤ 36.00
11ax-HE20	MCS0	149	6695	22.61	23.40	26.03	29.03	≤ 36.00
11ax-HE20	MCS0	181	6855	19.55	20.60	23.12	26.12	≤ 36.00
11ax-HE40	MCS0	35	6125	22.92	23.55	26.26	29.26	≤ 36.00
11ax-HE40	MCS0	59	6245	23.42	24.14	26.81	29.81	≤ 36.00
11ax-HE40	MCS0	91	6405	22.62	23.84	26.28	29.28	≤ 36.00
11ax-HE40	MCS0	123	6565	22.84	23.83	26.37	29.37	≤ 36.00
11ax-HE40	MCS0	147	6685	22.19	22.80	25.52	28.52	≤ 36.00
11ax-HE40	MCS0	179	6845	19.29	19.50	22.41	25.41	≤ 36.00
11ax-HE80	MCS0	39	6145	23.60	24.28	26.96	29.96	≤ 36.00
11ax-HE80	MCS0	55	6225	23.65	24.45	27.08	30.08	≤ 36.00
11ax-HE80	MCS0	87	6385	22.38	23.24	25.84	28.84	≤ 36.00
11ax-HE80	MCS0	119	6545	23.05	23.77	26.44	29.44	≤ 36.00
11ax-HE80	MCS0	135	6625	23.89	24.92	27.45	30.45	≤ 36.00
11ax-HE80	MCS0	151	6705	22.25	23.11	25.71	28.71	≤ 36.00
11ax-HE80	MCS0	167	6865	20.85	21.09	23.98	26.98	≤ 36.00
11ax-HE160	MCS0	47	6185	23.27	24.14	26.74	29.74	≤ 36.00
11ax-HE160	MCS0	79	6345	22.71	23.60	26.19	29.19	≤ 36.00
11ax-HE160	MCS0	143	6665	21.91	22.84	25.41	28.41	≤ 36.00
11be-EHT20	MCS0	33	6115	23.26	24.37	26.86	29.86	≤ 36.00
11be-EHT20	MCS0	61	6255	23.59	24.38	27.01	30.01	≤ 36.00
11be-EHT20	MCS0	93	6415	23.74	24.22	27.00	30.00	≤ 36.00
11be-EHT20	MCS0	117	6535	24.35	24.61	27.49	30.49	≤ 36.00
11be-EHT20	MCS0	149	6695	22.87	23.57	26.24	29.24	≤ 36.00
11be-EHT20	MCS0	181	6855	20.30	20.44	23.38	26.38	≤ 36.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total AV Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1			
CDD mode								
11be-EHT40	MCS0	35	6125	23.68	24.25	26.98	29.98	≤ 36.00
11be-EHT40	MCS0	59	6245	23.63	24.25	26.96	29.96	≤ 36.00
11be-EHT40	MCS0	91	6405	23.19	24.28	26.78	29.78	≤ 36.00
11be-EHT40	MCS0	123	6565	23.99	24.99	27.53	30.53	≤ 36.00
11be-EHT40	MCS0	147	6685	21.94	22.73	25.36	28.36	≤ 36.00
11be-EHT40	MCS0	179	6845	19.27	19.44	22.37	25.37	≤ 36.00
11be-EHT80	MCS0	39	6145	23.67	24.30	27.01	30.01	≤ 36.00
11be-EHT80	MCS0	55	6225	23.72	24.45	27.11	30.11	≤ 36.00
11be-EHT80	MCS0	87	6385	23.30	24.20	26.78	29.78	≤ 36.00
11be-EHT80	MCS0	119	6545	23.04	24.38	26.77	29.77	≤ 36.00
11be-EHT80	MCS0	135	6625	23.43	24.86	27.21	30.21	≤ 36.00
11be-EHT80	MCS0	151	6705	22.25	23.17	25.74	28.74	≤ 36.00
11be-EHT80	MCS0	167	6865	21.27	20.97	24.13	27.13	≤ 36.00
11be-EHT160	MCS0	47	6185	23.25	24.24	26.78	29.78	≤ 36.00
11be-EHT160	MCS0	79	6345	22.63	23.63	26.17	29.17	≤ 36.00
11be-EHT160	MCS0	143	6665	22.84	23.78	26.35	29.35	≤ 36.00
11be-EHT320	MCS0	63	6265	20.43	22.03	24.31	27.31	≤ 36.00
11be-EHT320	MCS0	127	6585	20.99	22.46	24.80	27.80	≤ 36.00

Note 1: Total Average Power (dBm) = 10*log {$10^{(\text{Ant 0 Average Power }/10)}$ + $10^{(\text{Ant 1 Average Power }/10)}$}.

Note 2: EIRP Power (dBm) = Total Average Power (dBm) + Directional Gain (dBi)}.

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total AV Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1			
EIRP at any elevation angle above 30 degrees (CDD mode)								
11ax-HE20	MCS0	33	6115	23.55	24.64	27.14	20.99	≤ 21.00
11ax-HE20	MCS0	61	6255	23.65	24.45	27.08	20.93	≤ 21.00
11ax-HE20	MCS0	93	6415	23.31	24.25	26.82	20.67	≤ 21.00
11ax-HE20	MCS0	117	6535	23.80	24.55	27.20	20.13	≤ 21.00
11ax-HE20	MCS0	149	6695	22.61	23.40	26.03	18.96	≤ 21.00
11ax-HE20	MCS0	181	6855	19.55	20.60	23.12	16.05	≤ 21.00
11ax-HE40	MCS0	35	6125	22.92	23.55	26.26	20.11	≤ 21.00
11ax-HE40	MCS0	59	6245	23.42	24.14	26.81	20.66	≤ 21.00
11ax-HE40	MCS0	91	6405	22.62	23.84	26.28	20.13	≤ 21.00
11ax-HE40	MCS0	123	6565	22.84	23.83	26.37	19.30	≤ 21.00
11ax-HE40	MCS0	147	6685	22.19	22.80	25.52	18.45	≤ 21.00
11ax-HE40	MCS0	179	6845	19.29	19.50	22.41	15.34	≤ 21.00
11ax-HE80	MCS0	39	6145	23.60	24.28	26.96	20.81	≤ 21.00
11ax-HE80	MCS0	55	6225	23.65	24.45	27.08	20.93	≤ 21.00
11ax-HE80	MCS0	87	6385	22.38	23.24	25.84	19.69	≤ 21.00
11ax-HE80	MCS0	119	6545	23.05	23.77	26.44	19.37	≤ 21.00
11ax-HE80	MCS0	135	6625	23.89	24.92	27.45	20.38	≤ 21.00
11ax-HE80	MCS0	151	6705	22.25	23.11	25.71	18.64	≤ 21.00
11ax-HE80	MCS0	167	6865	20.85	21.09	23.98	16.91	≤ 21.00
11ax-HE160	MCS0	47	6185	23.27	24.14	26.74	20.59	≤ 21.00
11ax-HE160	MCS0	79	6345	22.71	23.60	26.19	20.04	≤ 21.00
11ax-HE160	MCS0	143	6665	21.91	22.84	25.41	18.34	≤ 21.00
11be-EHT20	MCS0	33	6115	23.26	24.37	26.86	20.71	≤ 21.00
11be-EHT20	MCS0	61	6255	23.59	24.38	27.01	20.86	≤ 21.00
11be-EHT20	MCS0	93	6415	23.74	24.22	27.00	20.85	≤ 21.00
11be-EHT20	MCS0	117	6535	24.35	24.61	27.49	20.42	≤ 21.00
11be-EHT20	MCS0	149	6695	22.87	23.57	26.24	19.17	≤ 21.00
11be-EHT20	MCS0	181	6855	20.30	20.44	23.38	16.31	≤ 21.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total AV Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1			
EIRP at any elevation angle above 30 degrees (CDD mode)								
11be-EHT40	MCS0	35	6125	23.68	24.25	26.98	20.83	≤ 21.00
11be-EHT40	MCS0	59	6245	23.63	24.25	26.96	20.81	≤ 21.00
11be-EHT40	MCS0	91	6405	23.19	24.28	26.78	20.63	≤ 21.00
11be-EHT40	MCS0	123	6565	23.99	24.99	27.53	20.46	≤ 21.00
11be-EHT40	MCS0	147	6685	21.94	22.73	25.36	18.29	≤ 21.00
11be-EHT40	MCS0	179	6845	19.27	19.44	22.37	16.22	≤ 21.00
11be-EHT80	MCS0	39	6145	23.67	24.30	27.01	20.86	≤ 21.00
11be-EHT80	MCS0	55	6225	23.72	24.45	27.11	20.96	≤ 21.00
11be-EHT80	MCS0	87	6385	23.30	24.20	26.78	20.63	≤ 21.00
11be-EHT80	MCS0	119	6545	23.04	24.38	26.77	19.70	≤ 21.00
11be-EHT80	MCS0	135	6625	23.43	24.86	27.21	20.14	≤ 21.00
11be-EHT80	MCS0	151	6705	22.25	23.17	25.74	18.67	≤ 21.00
11be-EHT80	MCS0	167	6865	21.27	20.97	24.13	17.06	≤ 21.00
11be-EHT160	MCS0	47	6185	23.25	24.24	26.78	20.63	≤ 21.00
11be-EHT160	MCS0	79	6345	22.63	23.63	26.17	20.02	≤ 21.00
11be-EHT160	MCS0	143	6665	22.84	23.78	26.35	19.28	≤ 21.00
11be-EHT320	MCS0	63	6265	20.43	22.03	24.31	18.16	≤ 21.00
11be-EHT320	MCS0	127	6585	20.99	22.46	24.80	17.73	≤ 21.00

Note 1: Total Average Power (dBm) = 10*log {$10^{(\text{Ant 0 Average Power }/10)}$ + $10^{(\text{Ant 1 Average Power }/10)}$}.

Note 2: EIRP Power (dBm) = Total Average Power (dBm) + Directional Gain (dBi)}.

6.4. Power Spectral Density

6.4.1. Test Limit

For a standard access point operating in the 5.925-6.425 GHz band, the maximum power spectral density must not exceed 23 dBm e.i.r.p. in any 1-megahertz band.

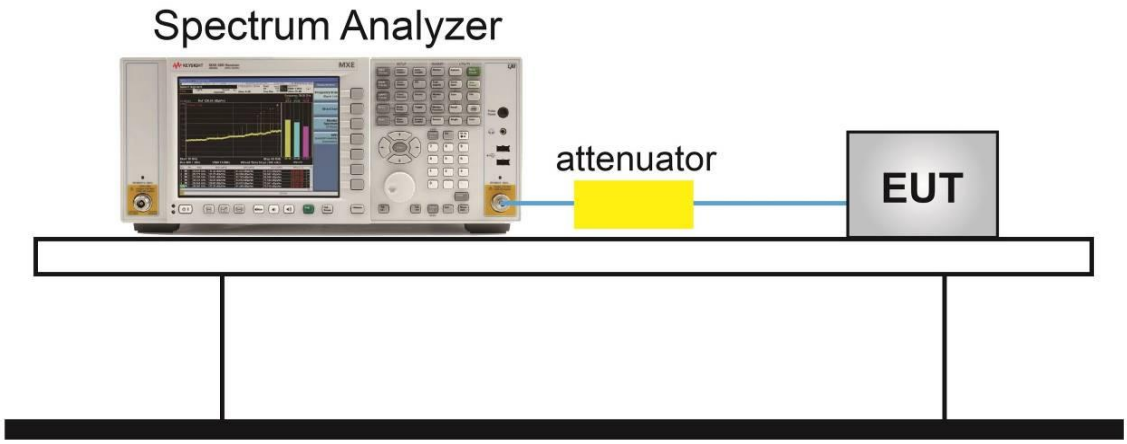
6.4.2. Test Procedure Used

KDB 789033 D02v02r01-SectionF

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. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. 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

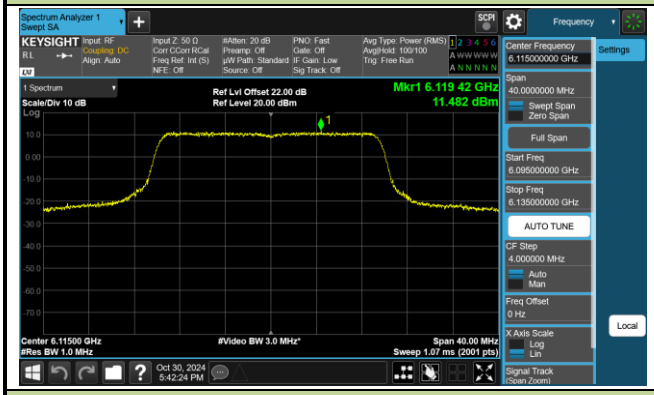
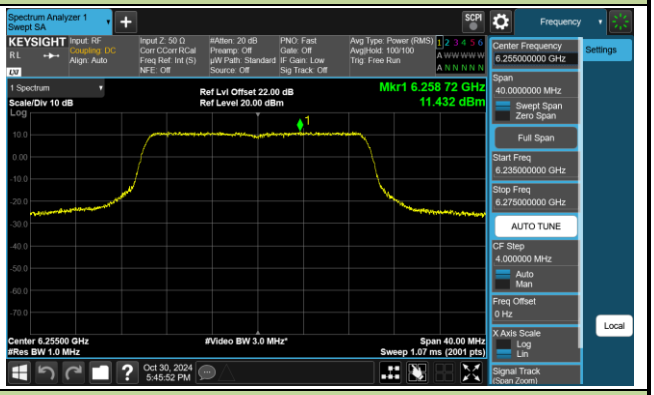
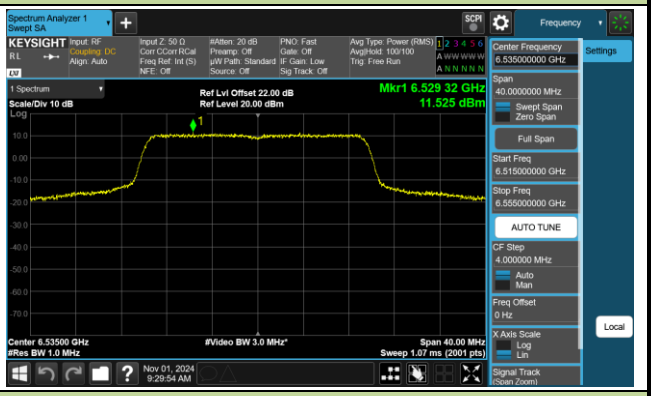
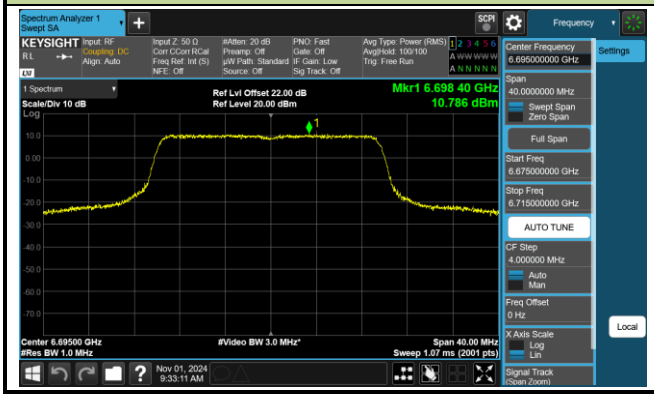
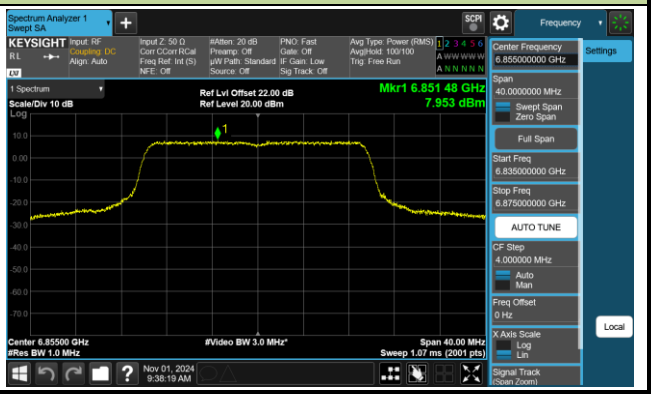
Test Site	SR6	Test Engineer	Peter
Test Date	2024/11/1	Test Mode	Nss=1

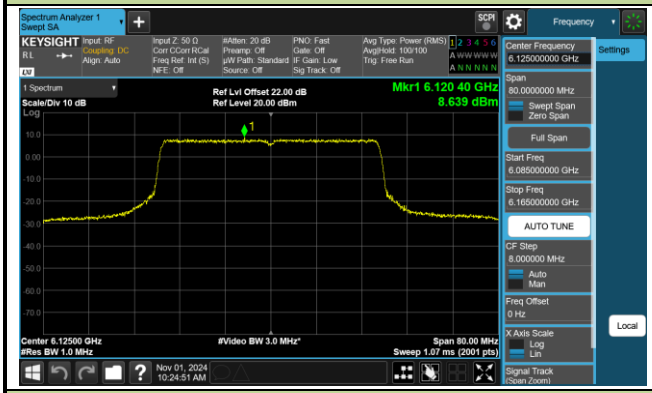
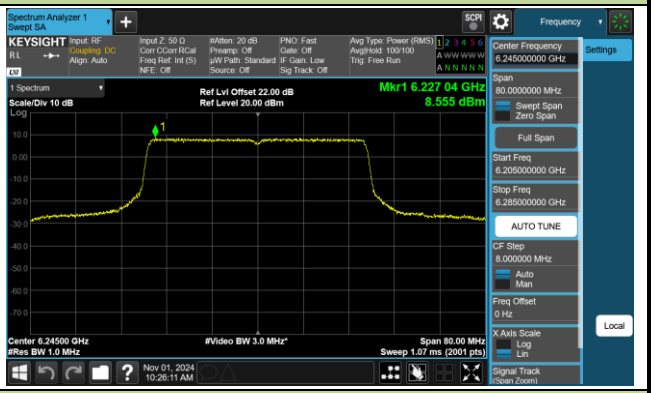
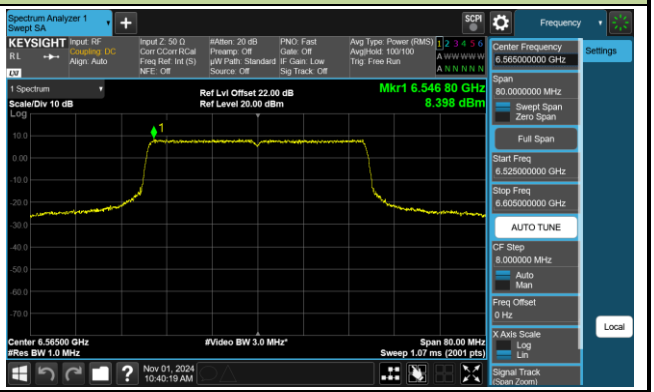
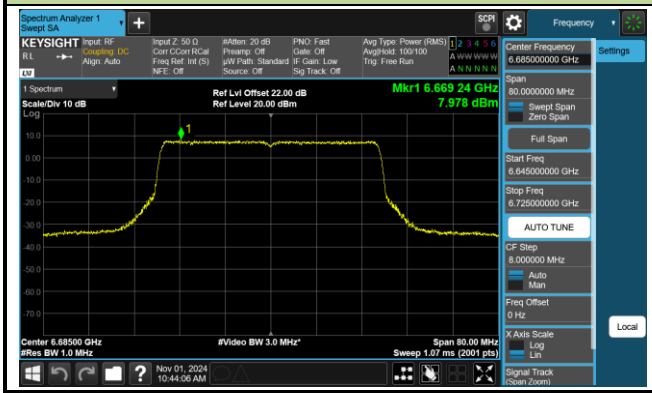
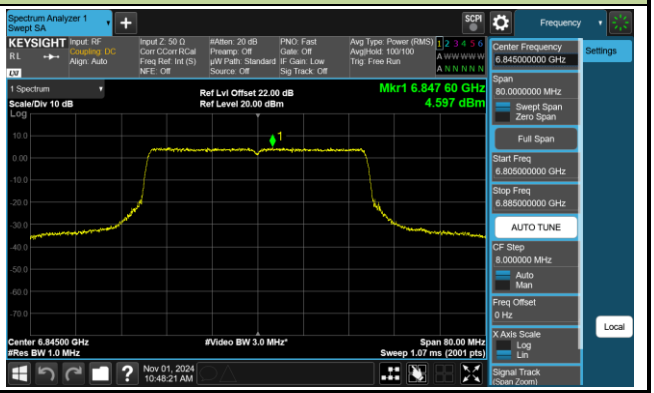
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 0	Ant 1			
CDD Mode								
11ax-HE20	MCS0	33	6115	11.482	12.360	98.91%	21.01	≤ 23.00
11ax-HE20	MCS0	61	6255	11.432	12.431	98.91%	21.03	≤ 23.00
11ax-HE20	MCS0	93	6415	11.466	12.519	98.91%	21.09	≤ 23.00
11ax-HE20	MCS0	117	6535	11.525	12.381	98.91%	21.04	≤ 23.00
11ax-HE20	MCS0	149	6695	10.786	12.202	98.91%	20.62	≤ 23.00
11ax-HE20	MCS0	181	6855	7.953	8.497	98.91%	17.30	≤ 23.00
11ax-HE40	MCS0	35	6125	8.639	8.384	98.38%	17.60	≤ 23.00
11ax-HE40	MCS0	59	6245	8.555	9.241	98.38%	18.00	≤ 23.00
11ax-HE40	MCS0	91	6405	8.014	9.085	98.38%	17.67	≤ 23.00
11ax-HE40	MCS0	123	6565	8.398	8.842	98.38%	17.72	≤ 23.00
11ax-HE40	MCS0	147	6685	7.978	8.261	98.38%	17.21	≤ 23.00
11ax-HE40	MCS0	179	6845	4.597	4.541	98.38%	13.66	≤ 23.00
11ax-HE80	MCS0	39	6145	6.167	6.478	98.20%	15.42	≤ 23.00
11ax-HE80	MCS0	55	6225	6.435	6.849	98.20%	15.75	≤ 23.00
11ax-HE80	MCS0	87	6385	5.204	6.092	98.20%	14.77	≤ 23.00
11ax-HE80	MCS0	119	6545	5.827	6.071	98.20%	15.05	≤ 23.00
11ax-HE80	MCS0	135	6625	6.929	6.911	98.20%	16.02	≤ 23.00
11ax-HE80	MCS0	151	6705	5.633	5.605	98.20%	14.72	≤ 23.00
11ax-HE80	MCS0	167	6865	3.645	3.772	98.20%	12.81	≤ 23.00
11ax-HE160	MCS0	47	6185	3.247	3.832	98.02%	12.66	≤ 23.00
11ax-HE160	MCS0	79	6345	2.892	3.408	98.02%	12.27	≤ 23.00
11ax-HE160	MCS0	143	6665	2.361	3.009	98.02%	11.80	≤ 23.00

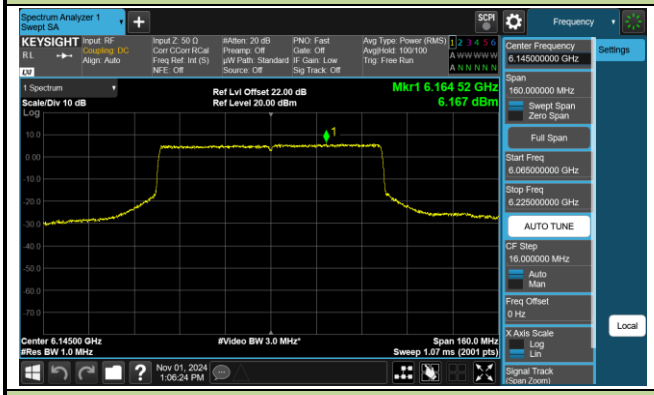
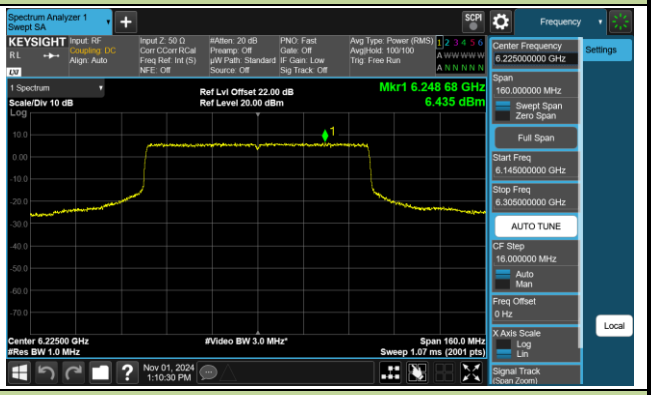
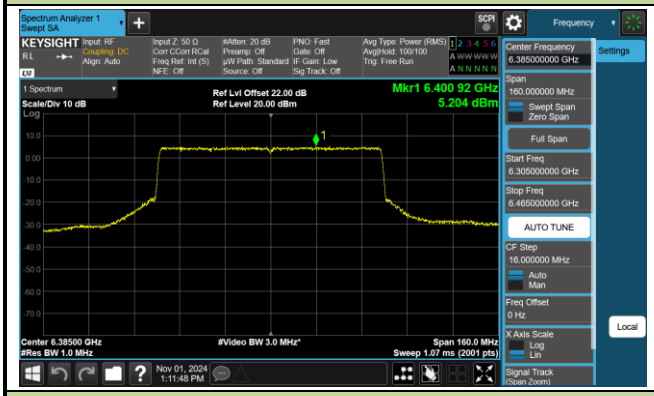
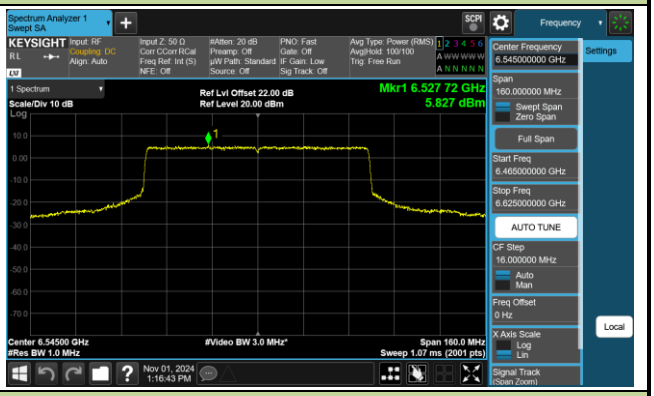
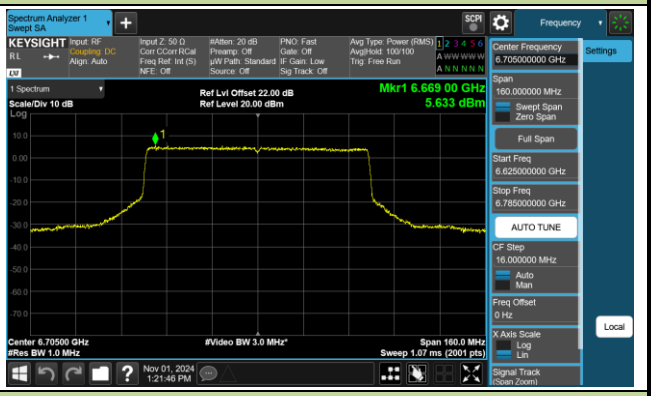
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 0	Ant 1			
11be-EHT20	MCS0	33	6115	11.451	11.957	97.85%	20.83	≤ 23.00
11be-EHT20	MCS0	61	6255	10.794	12.203	97.85%	20.67	≤ 23.00
11be-EHT20	MCS0	93	6415	11.005	12.564	97.85%	20.97	≤ 23.00
11be-EHT20	MCS0	117	6535	11.434	12.488	97.85%	21.11	≤ 23.00
11be-EHT20	MCS0	149	6695	11.146	11.824	97.85%	20.61	≤ 23.00
11be-EHT20	MCS0	181	6855	8.038	8.620	97.85%	17.45	≤ 23.00
11be-EHT40	MCS0	35	6125	8.848	8.504	99.09%	17.74	≤ 23.00
11be-EHT40	MCS0	59	6245	8.655	9.765	99.09%	18.31	≤ 23.00
11be-EHT40	MCS0	91	6405	8.976	9.617	99.09%	18.37	≤ 23.00
11be-EHT40	MCS0	123	6565	9.753	10.164	99.09%	19.02	≤ 23.00
11be-EHT40	MCS0	147	6685	8.073	8.336	99.09%	17.27	≤ 23.00
11be-EHT40	MCS0	179	6845	4.632	4.891	99.09%	13.82	≤ 23.00
11be-EHT80	MCS0	39	6145	6.286	6.463	98.92%	15.44	≤ 23.00
11be-EHT80	MCS0	55	6225	6.835	7.227	98.92%	16.10	≤ 23.00
11be-EHT80	MCS0	87	6385	6.353	6.581	98.92%	15.54	≤ 23.00
11be-EHT80	MCS0	119	6545	6.705	6.673	98.92%	15.76	≤ 23.00
11be-EHT80	MCS0	135	6625	7.292	7.086	98.92%	16.26	≤ 23.00
11be-EHT80	MCS0	151	6705	5.572	5.955	98.92%	14.84	≤ 23.00
11be-EHT80	MCS0	167	6865	3.953	3.495	98.92%	12.80	≤ 23.00
11be-EHT160	MCS0	47	6185	3.163	3.816	99.82%	12.53	≤ 23.00
11be-EHT160	MCS0	79	6345	1.849	2.328	99.82%	11.12	≤ 23.00
11be-EHT160	MCS0	143	6665	2.876	3.530	99.82%	12.24	≤ 23.00
11be-EHT320	MCS0	63	6265	-1.723	-1.562	97.14%	7.50	≤ 23.00
11be-EHT320	MCS0	127	6585	-0.704	-0.551	97.14%	8.52	≤ 23.00

Note 1: Total Average Power (dBm) = 10*log {$10^{(\text{Ant 0 Average Power }/10)}$ + $10^{(\text{Ant 1 Average Power }/10)}$}.

Note 2: EIRP Power (dBm) = Total Average Power (dBm) + Directional Gain (dBi)}.

802.11ax-HE20 Power Spectral Density- Ant 0 (Nss = 1)	
Channel 33 (6115MHz)	Channel 61 (6255MHz)
	
Channel 93 (6415MHz)	Channel 117 (6535MHz)
	
Channel 149 (6695MHz)	Channel 181 (6855MHz)
	

802.11ax-HE40 Power Spectral Density- Ant 0 (Nss = 1)	
Channel 35 (6125MHz)	Channel 59 (6245MHz)
	
Channel 91 (6405MHz)	Channel 123 (6565MHz)
	
Channel 147 (6685MHz)	Channel 179 (6845MHz)
	

802.11ax-HE80 Power Spectral Density- Ant 0 (Nss = 1)	
Channel 39 (6145MHz)	Channel 55 (6225MHz)
	
Channel 87 (6385MHz)	Channel 119 (6545MHz)
	
Channel 135 (6625MHz)	Channel 151 (6705MHz)
	
Channel 167 (6785MHz)