RF MEASUREMENT REPORT

FCC ID:	TV7A42BE52
Applicant:	Mikrotikls SIA
Product:	hAP be lite
Model No.:	A42G-HbeP
Brand Name:	MikroTik
FCC Classification:	Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s):	Part 15 Subpart E (Section 15.407)
Result:	Complies
Received Date:	2025-12-25
Test Date:	2026-05-07 ~ 2026-05-26

Reviewed By: Vincent Yu

Approved By: Robin Wu

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1111123-U203	V01	Initial Report	2026-06-15	Valid

CONTENTS

1. General Information

1.1. Applicant

Mikrotikls SIA

Ūnijas iela 2, Riga, LV-1039, LATVIA

1.2. Manufacturer

Mikrotikls SIA

Ūnijas iela 2, Riga, LV-1039, LATVIA

1.3. Testing Facility

☒	**Test Site - MRT Suzhou Laboratory**	
	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	
	Laboratory Accreditations	
	A2LA: 3628.01	CNAS: L10551
	FCC: CN1166	ISED: CN0001
☐	**Test Site - MRT Shenzhen Laboratory**	
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China	
	Laboratory Accreditations	
	A2LA: 3628.02	
	FCC: CN1284	ISED: CN0105
☐	**Test Site - MRT Taiwan Laboratory**	
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
	Laboratory Accreditations	
	TAF: 3261	
	FCC: 291082, TW3261	ISED: TW3261

1.4. Product Information

Product Name	hAP be lite
Model No.	A42G-HbeP
EUT Identification No.	Conducted 20251225Sample#07 Radiated 20251225Sample#08
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Antenna Information	Refer to section 1.7
Power Type	By AC/DC Adapter
Operating Environment	Indoor Use
Accessory	
AC/DC Adapter	Model: MT13-052400-U Input: 100-240 V ~ 50/60 Hz, 0.35 A Output: 5.0 V, 2400 mA, 12.0 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-4: 5850 ~ 5895 MHz	
Modulation Technology	802.11a/n/ac: OFDM 802.11ax/be: OFDMA	
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1732 Mbps 802.11ax: up to 2402 Mbps 802.11be: up to 2882 Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
169	5845 MHz	173	5865 MHz	177	5885 MHz

802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
167	5835 MHz	175	5875 MHz	--	--

802.11ac-VHT80/ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
171	5855 MHz	--	--	--	--

802.11ac-VHT160/ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
163	5815 MHz	--	--	--	--

1.7. Antenna Details

Antenna Type	Frequency (MHz)	TX Paths	Directional Gain (dBi)			
			For Power		For PSD	
			SISO Mode	MIMO Mode	SISO Mode	MIMO Mode
Wi-Fi Antenna						
Internal Antenna	2400 ~ 2483.5	2	5.00	5.00	5.00	8.01
	5150 ~ 5250	3	7.00	7.00	7.00	10.01
	5250 ~ 5350	3	7.00	7.00	7.00	10.01
	5470 ~ 5725	3	7.00	7.00	7.00	10.01
	5725 ~ 5850	3	7.00	7.00	7.00	10.01
	5850 ~ 5895	3	7.00	7.00	7.00	10.01

Remarks:

1. The antenna gain and directional gain refer to manufacturer's antenna specification.
2. The device supports CDD Mode and SISO mode, details refer to the table as below.
3. The device has 3 antennas for transmitting 5G-WiFi, but only 2 of them can work simultaneously at a time.

Test Mode	TX Paths	SISO Mode	CDD Mode
Wi-Fi 2.4G			
802.11b/g	2	√	X
802.11n/ax/be	2	X	√
Wi-Fi 5G			
802.11a	3	√	X
802.11n/ac/ax/be	3	X	√
Remark: "√" means "Support", "X" means "Not support".			

2. Test Configuration

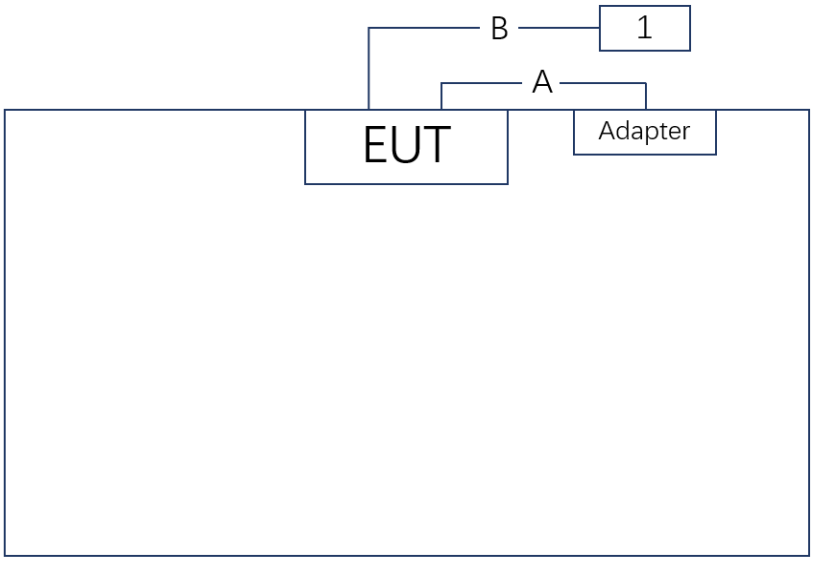
2.1. Test Mode

Mode 1: Transmit by 802.11a (6 Mbps)
Mode 2: Transmit by 802.11ac-VHT20 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80 (MCS0)
Mode 5: Transmit by 802.11ac-VHT160 (MCS0)
Mode 6: Transmit by 802.11be-EHT20 (MCS0)
Mode 7: Transmit by 802.11be-EHT40 (MCS0)
Mode 8: Transmit by 802.11be-EHT80 (MCS0)
Mode 9: Transmit by 802.11be-EHT160 (MCS0)
Note 1: 802.11n (HT) and 802.11ac (VHT) modes are both OFDM-based technologies and are configured with the same output power settings as declared by the manufacturer. Based on this technical rationale, 802.11ac was selected as the representative mode for RF testing. Therefore, only the 802.11ac test data are presented in this report. Note 2: 802.11ax (HE) and 802.11be (EHT) modes are both OFDMA-based technologies and are configured with the same output power settings as declared by the manufacturer. Based on this technical rationale, 802.11be was selected as the representative mode for RF testing. Therefore, only the 802.11be test data are presented in this report. Note 3: All applicable modes of operation and data rates were investigated. The RF test requirements were performed on the selected representative worst-case configurations with the highest measured output power.

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 – Radiated Emissions Testing & AC Conducted Emissions Testing



Cable Type		Cable Description	Length
A	Power Cable	Non shielded	> 1 m
B	LAN Cable	Non shielded	> 10 m
Product		Manufacturer	Model No.
1	Notebook	ThinkPad	Gen 5 E14

2.3. Test Software

The test utility software used during testing was “WinBox.exe”, and the version was 4.0.1.

2.4. Applied Standards

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

- FCC Part 15.407
- KDB 789033 D02 v02r01
- KDB 291074 D02 v01
- KDB 662911 D01 v02r01
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Antenna Requirements

KDB 291074 DR01: An Indoor Access point in the U-NII-4 band (5.850-5.895 GHz) and U-NII -3 & -4 span channels must use an integrated antenna

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

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Temperature Chamber	BAOYT	BYG-408CS	MRTSUE06847	1 year	2027-01-17	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2026-10-16	SIP-TR1
USB Power Sensor	Keysight	U2021XA	MRTSUE06581	1 year	2026-06-12	SIP-TR1
Signal Analyzer	Keysight	N9010B	MRTSUE07036	1 year	2027-01-17	SIP-TR1
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2026-06-20	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2026-10-16	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2027-01-03	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2026-07-03	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2026-12-15	SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2026-09-28	SIP-AC3
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2027-04-14	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2026-10-08	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2026-12-15	SIP-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2026-08-31	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06598	1 year	2026-11-02	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2026-09-29	SIP-AC2
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2027-04-14	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2027-04-14	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2026-10-08	SIP-SR2
50 Ω to 150 Ω Adapter	Schwarzbeck	SR100-6W	MRTSUE06936	1 year	2027-01-17	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2029-10-13	SIP-SR2

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802BS	1.02	RE Antenna & Turntable
Agilent Power Analyzer/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: 3.59 dB 150 kHz ~ 30 MHz: 3.20 dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9 kHz ~ 30 MHz: 2.56 dB Coplanar: 9 kHz ~ 30 MHz: 2.55 dB Horizontal: 30 MHz ~ 200 MHz: 3.48 dB 200 MHz ~ 1 GHz: 4.17 dB 1 GHz ~ 40 GHz: 5.01 dB Vertical: 30 MHz ~ 200 MHz: 4.09 dB 200 MHz ~ 1 GHz: 5.30 dB 1 GHz ~ 40 GHz: 4.85 dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2 Uc(y)): 2.9 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2 Uc(y)): 1.4 dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2 Uc(y)): 2.9 dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2 Uc(y)): 2.6%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)	26 dB Bandwidth	Conducted	Pass
15.407(e)	6 dB Bandwidth		Pass
15.407(a)(3)(ii)	Maximum Conducted Output Power		Pass
15.407(a)(3)(ii)(12)	Peak Power Spectral Density		Pass
15.407(b)(5)	Undesirable Emissions	Radiated	Pass
15.205, 15.209 15.407(b)(5)(i), (8), (9)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)		Pass
15.207	AC Conducted Emissions 150 kHz - 30 MHz	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 & 99% Bandwidth Measurement

6.2.1. Test Limit

N/A

6.2.2. Test Procedure

KDB 789033 D02 v02r01- Section C.1 (26 dB Bandwidth)

KDB 789033 D02 v02r01- Section D (99% Bandwidth)

6.2.3. Test Setting

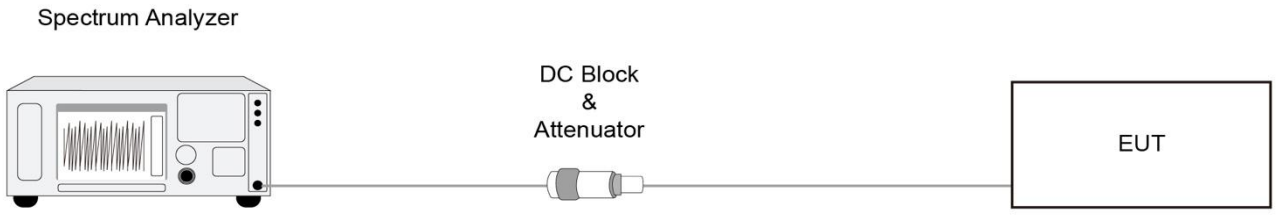
26 dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26 dB bandwidth 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

Refer to Appendix A.2.

6.3. 6 dB Bandwidth Measurement

6.3.1. Test Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

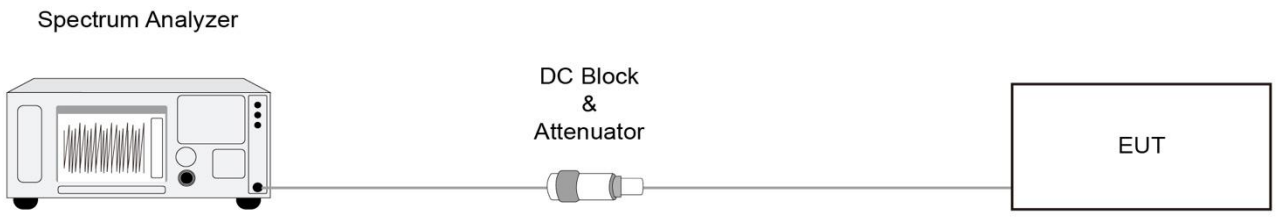
6.3.2. Test Procedure

KDB 789033 D02 v02r01- Section C.2

6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW ≥ 3 × RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Output Power Measurement

6.4.1. Test Limit

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

6.4.2. Test Procedure

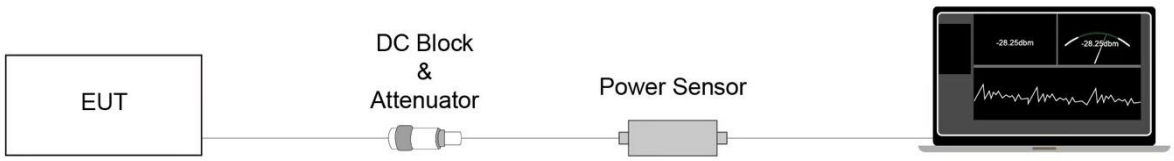
KDB 789033 D02 v02r01- Section E)3)b) Method PM-G

6.4.3. 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.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Power Spectral Density Measurement

6.5.1. Test Limit

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band.

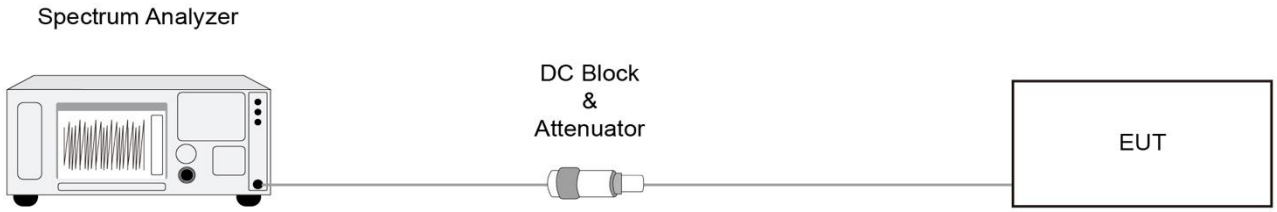
6.5.2. Test Procedure

KDB 789033 D02 v02r01-Section F

6.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26 dB EBW of the signal.
3. RBW = 1 MHz
4. VBW = 3 × RBW
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.

6.5.4. 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:

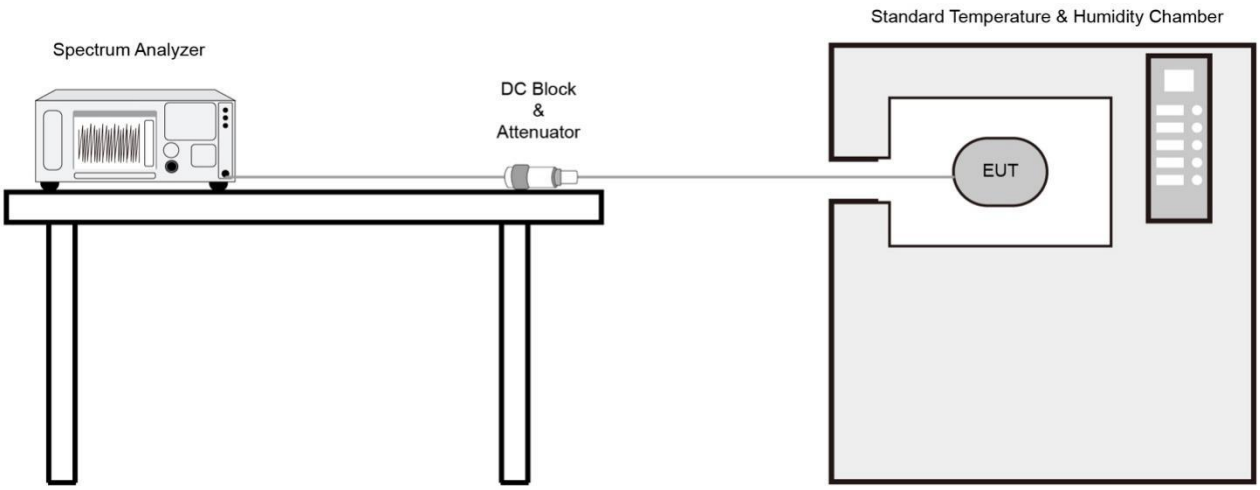
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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, record the maximum frequency change.

6.6.3. Test Setup



6.6.4. Test Result

Refer to Appendix A.6.

6.7. Radiated Spurious Emission Measurement

6.7.1. Test Limit

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/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

6.7.2. Test Procedure

KDB 789033 D02 v02r01- Section G.

6.7.3. 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
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1 GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1 MHz
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 1 GHz

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

Average Measurements above 1 GHz (Method VB)

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

2. RBW = 1 MHz

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.

802.11a	VBW = 750 Hz	802.11ax-HE20	VBW = 100 Hz
802.11ac-VHT20	VBW = 100 Hz	802.11ax-HE40	VBW = 200 Hz
802.11ac-VHT40	VBW = 200 Hz	802.11ax-HE80	VBW = 200 Hz
802.11ac-VHT80	VBW = 200 Hz		

4. Detector = Peak

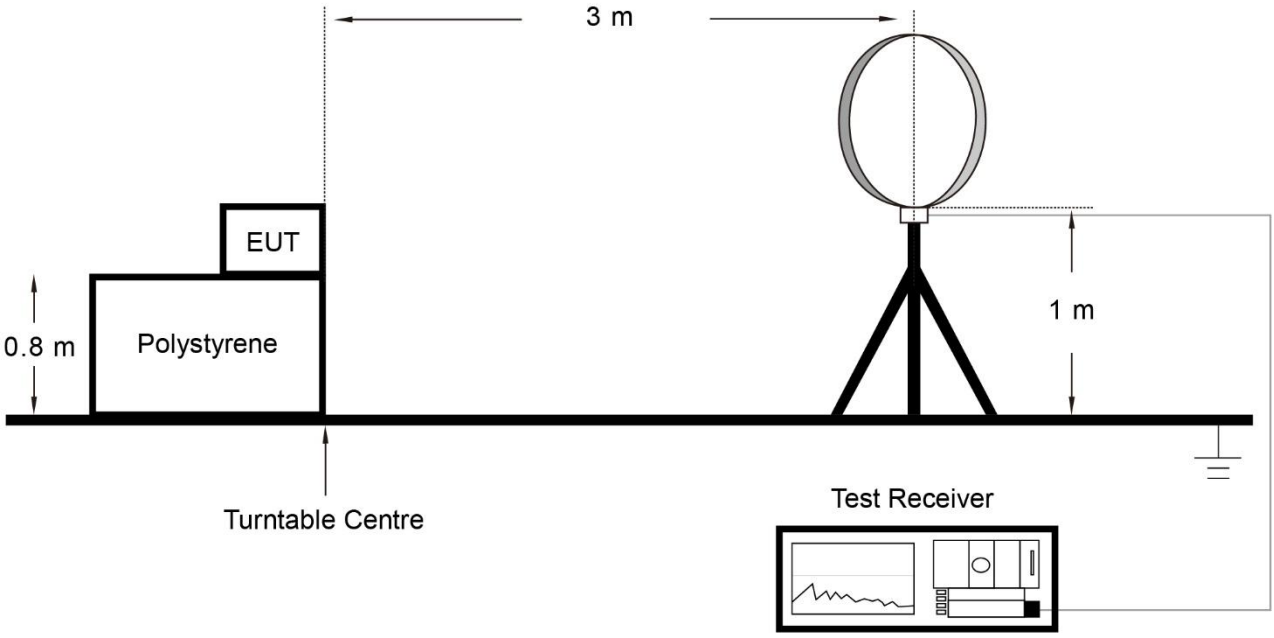
5. Sweep time = auto

6. Trace mode = max hold

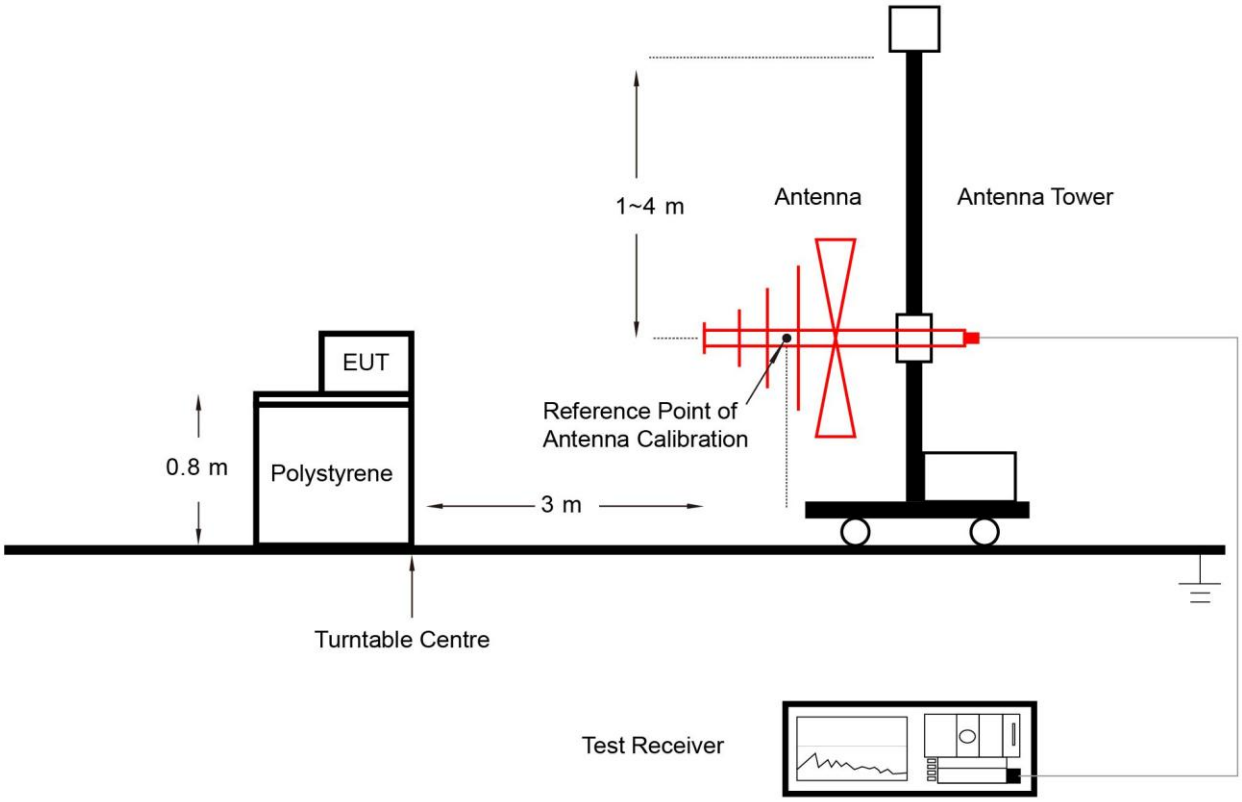
7. Trace was allowed to stabilize

6.7.4. Test Setup

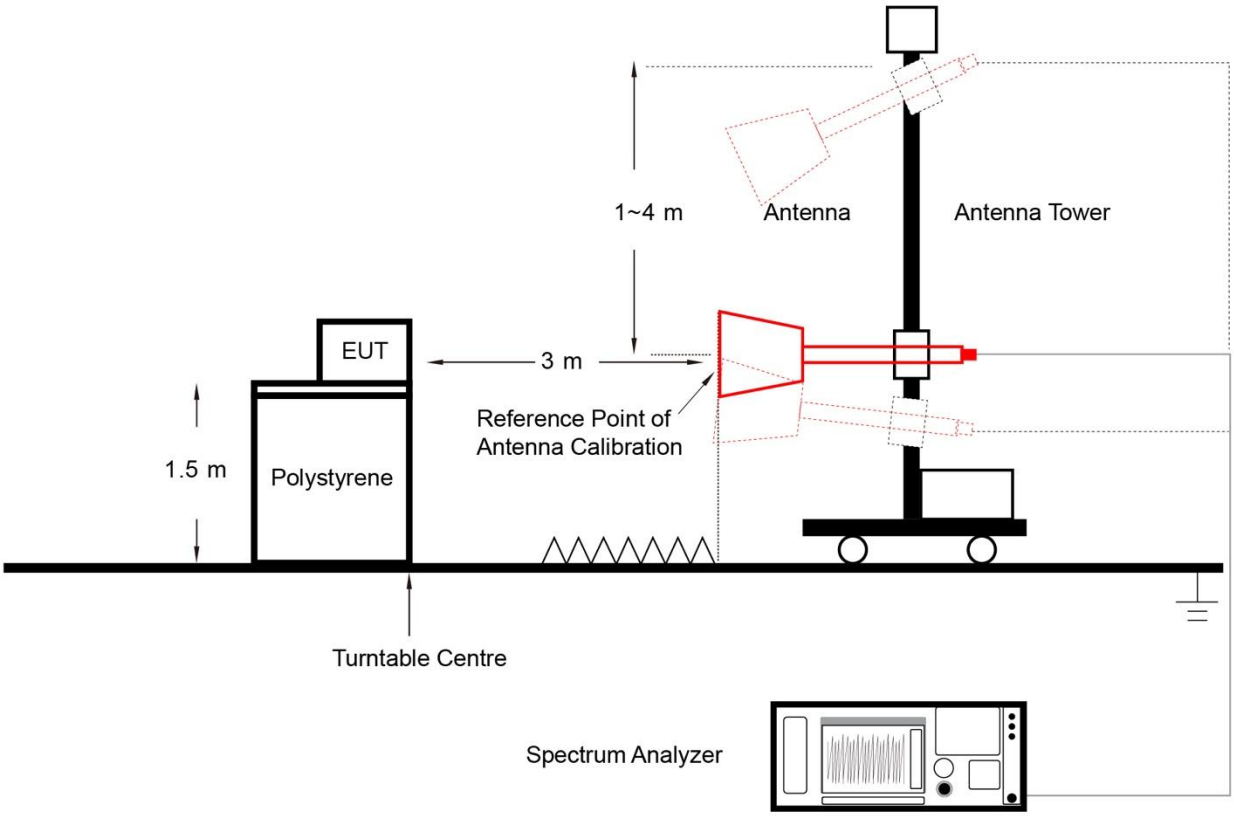
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz Test Setup:



6.7.5. Test Result

Refer to Appendix A.7.

6.8. Radiated Restricted Band Edge Measurement

6.8.1. 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) requirement:

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For an indoor access point, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

For indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

E [dBμV/m] = EIRP [dBm] + 95.2, for example, -27 dBm/MHz = 68.2 dBμV/m

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/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

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6.8.3. Test Setting

Peak Measurements above 1 GHz

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

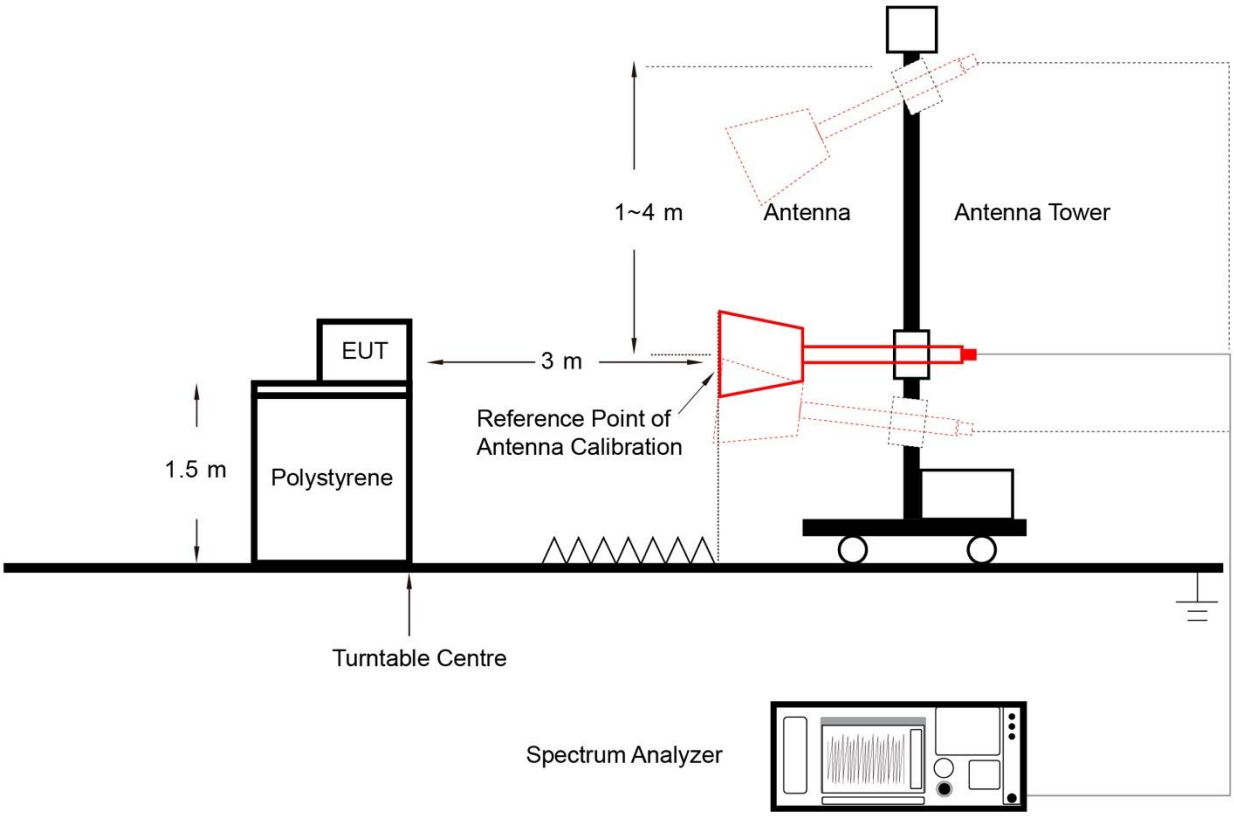
Average Measurements above 1 GHz (Method VB)

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

802.11a	VBW = 750 Hz	802.11ax-HE20	VBW = 100 Hz
802.11ac-VHT20	VBW = 100 Hz	802.11ax-HE40	VBW = 200 Hz
802.11ac-VHT40	VBW = 200 Hz	802.11ax-HE80	VBW = 200 Hz
802.11ac-VHT80	VBW = 200 Hz		

5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.8.4. Test Setup



6.8.5. Test Result

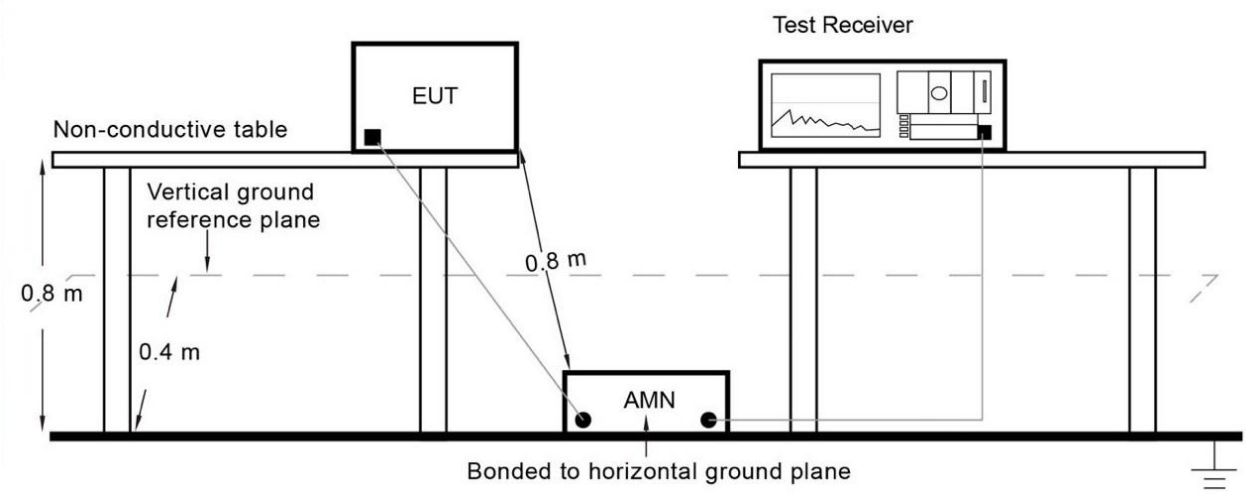
Refer to Appendix A.8.

6.9. AC Conducted Emissions Measurement

6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBµV)	AV (dBµV)
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.		

6.9.2. Test Setup



6.9.3. Test Result

Refer to Appendix A.9.

Appendix A - Test Result

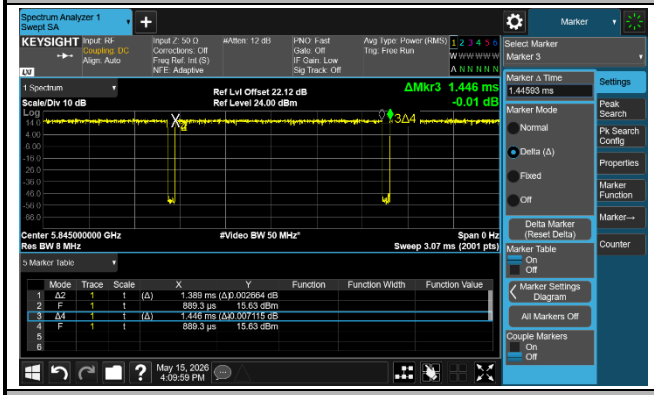
A.1 Duty Cycle Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15		

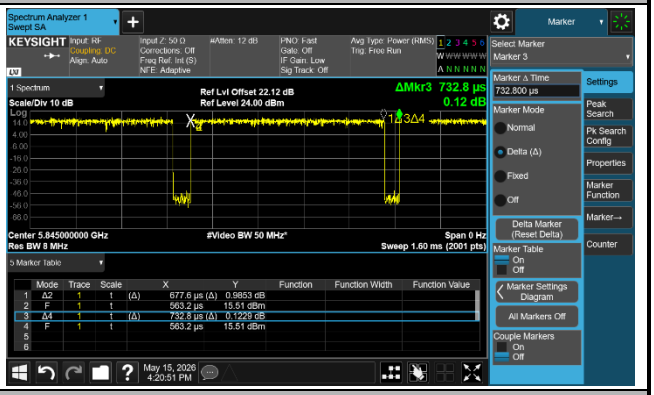
Test Mode	Duty Cycle
802.11a	96.06%
802.11ac-VHT20	92.47%
802.11ac-VHT40	84.52%
802.11ac-VHT80	77.60%
802.11ac-VHT160	68.25%
802.11be-EHT20	91.05%
802.11be-EHT40	85.12%
802.11be-EHT80	74.07%
802.11be-EHT160	69.99%

Duty Cycle (T = Transmission Duration)

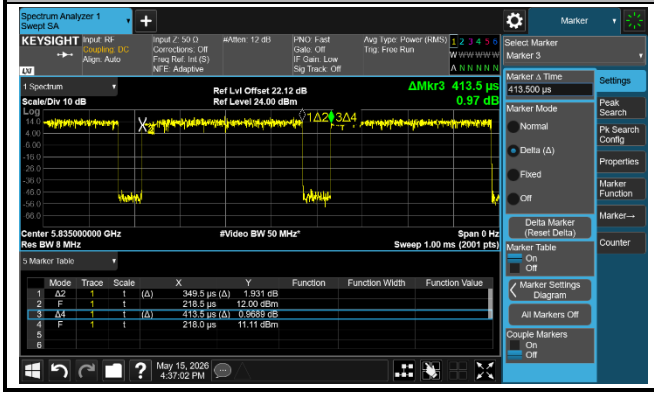
802.11a (T = 1.389 ms)



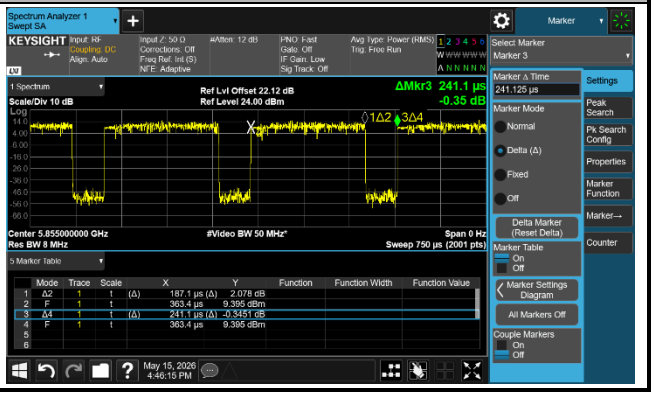
802.11ac-VHT20 (T = 677.6 µs)

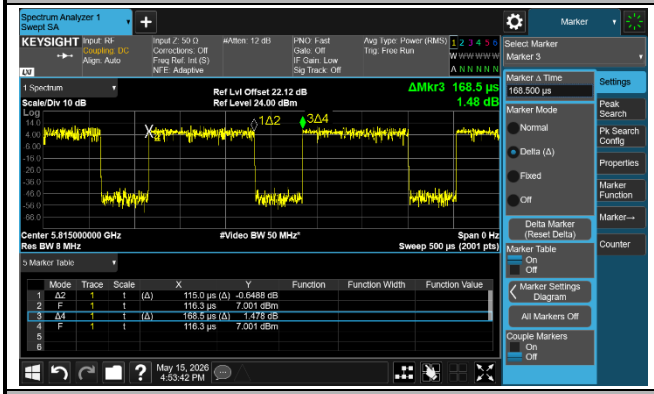
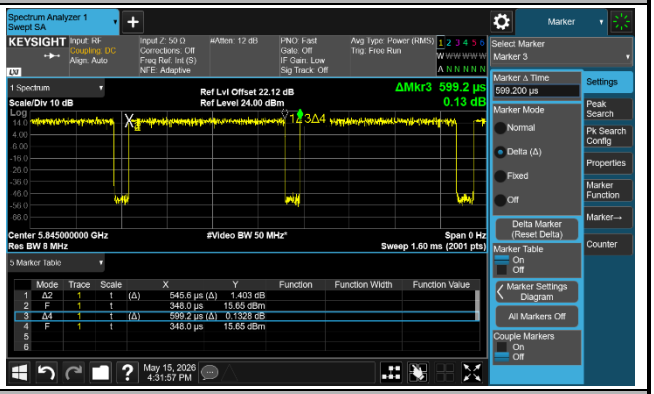
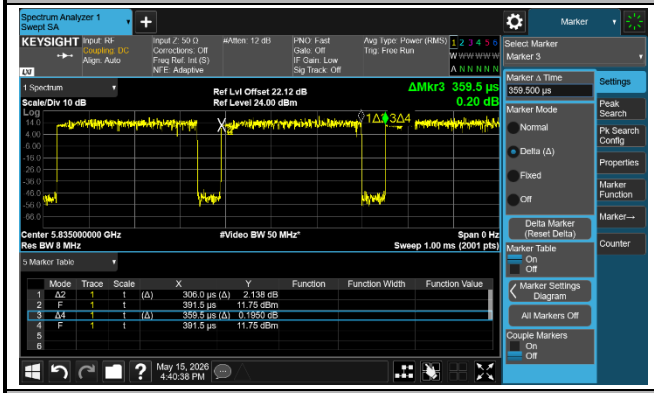
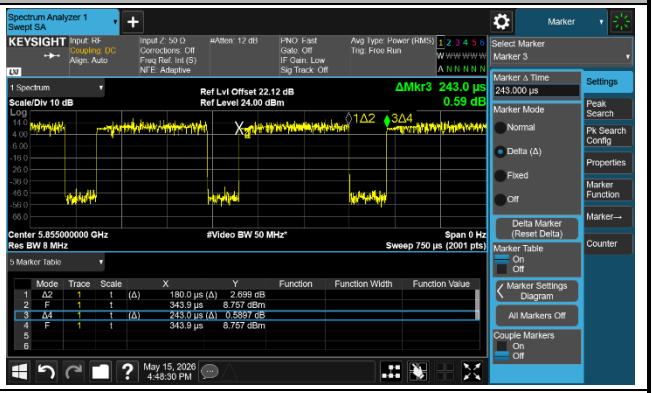
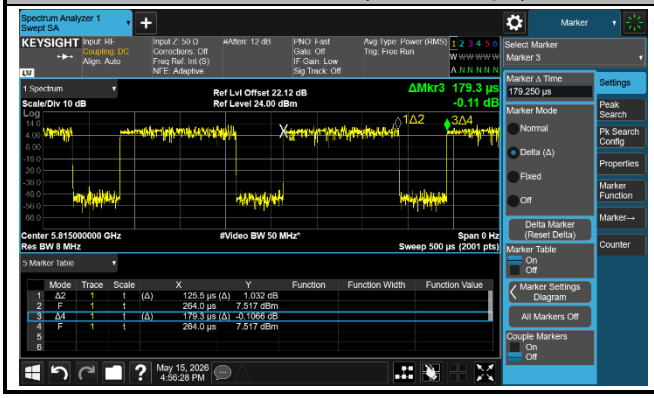


802.11ac-VHT40 (T = 349.5 µs)



802.11ac-VHT80 (T = 187.1 µs)

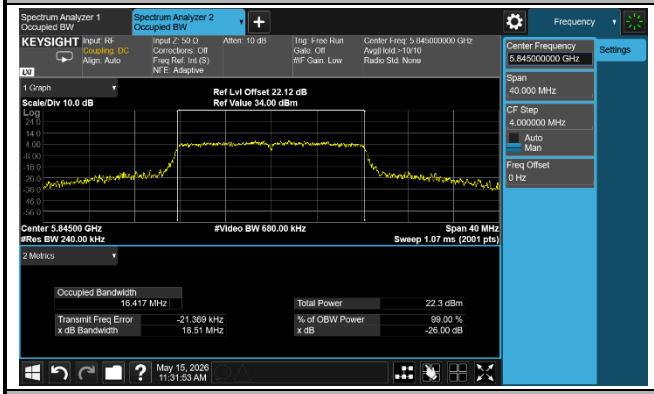
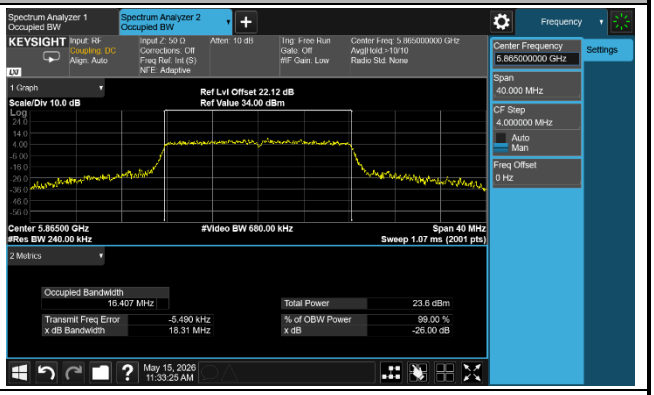
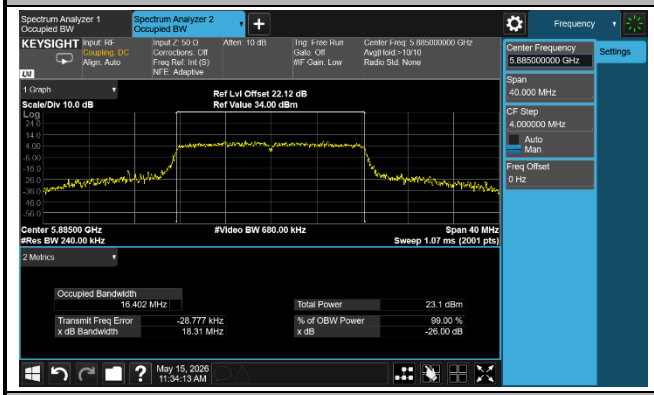
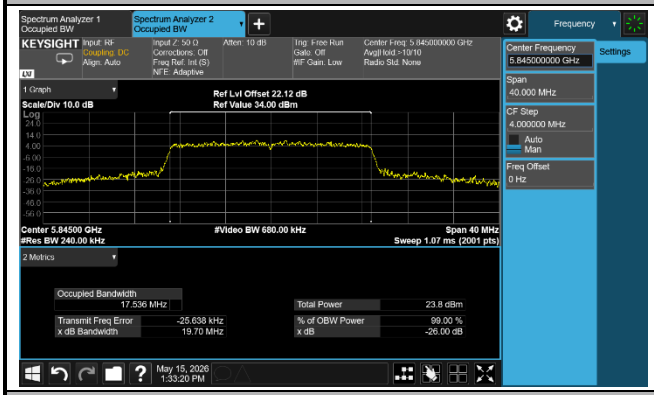
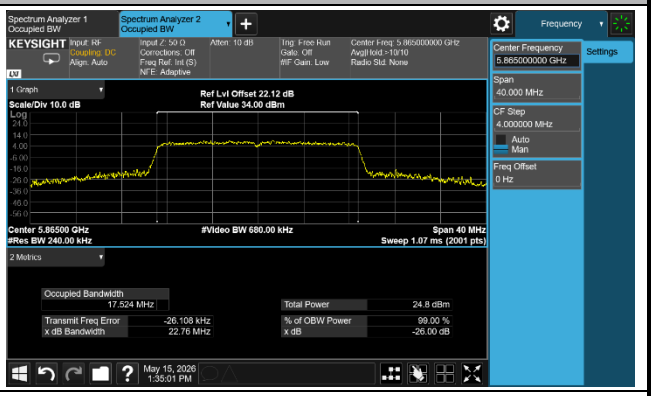
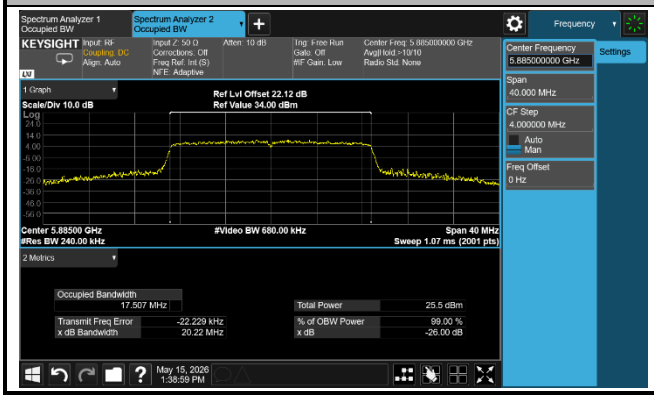


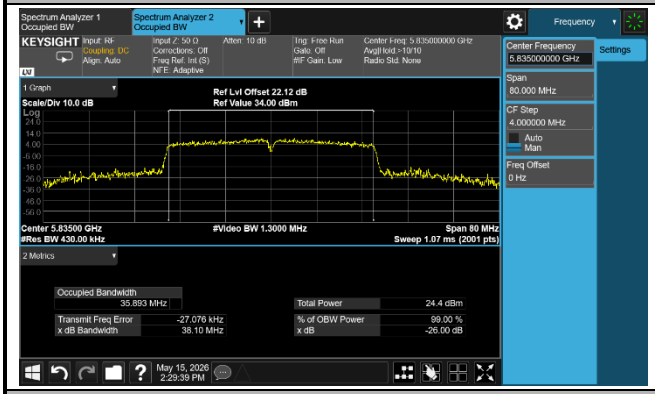
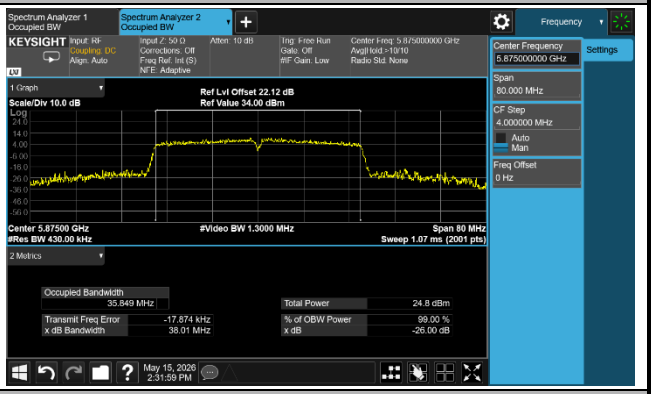
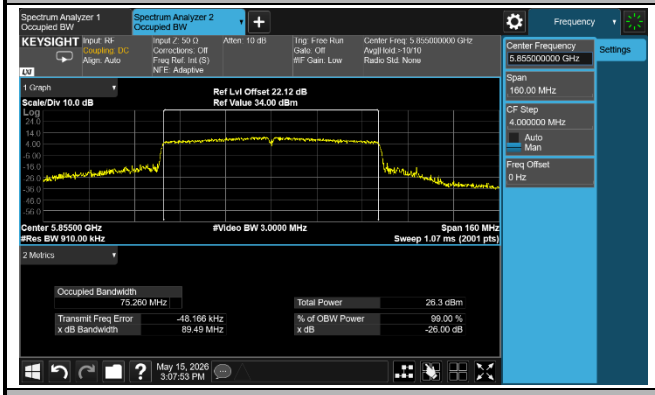
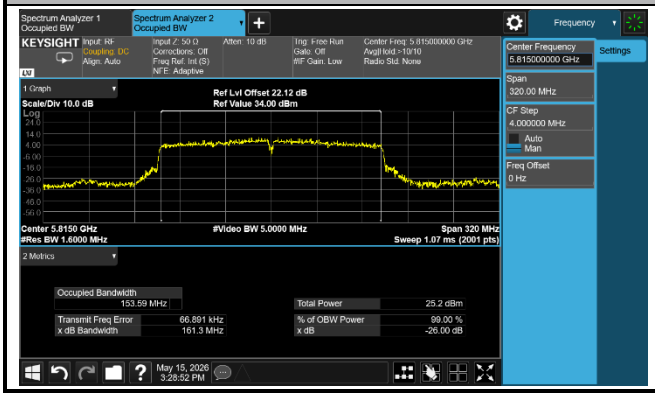
Duty Cycle (T = Transmission Duration)	
802.11ac-VHT160 (T = 115.0 µs)	802.11be-EHT20 (T = 545.6 µs)
	
802.11be-EHT40 (T = 306.0 µs)	802.11be-EHT80 (T = 180.0 µs)
	
802.11be-EHT160 (T = 125.5 µs)	
	

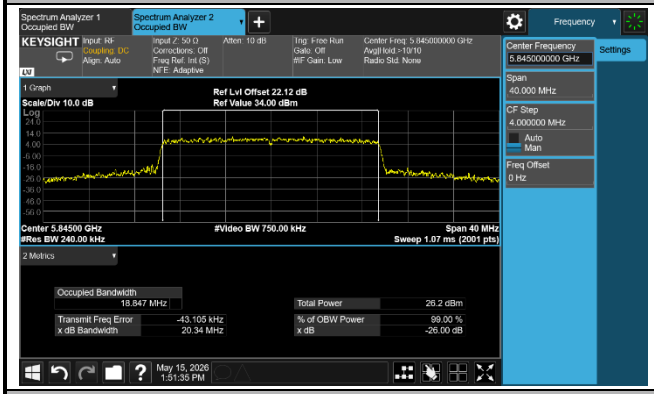
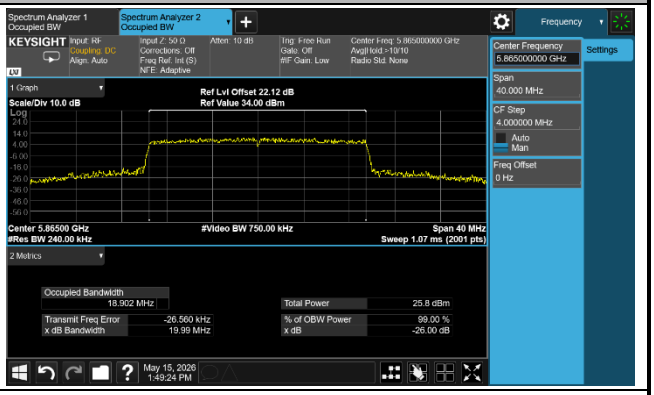
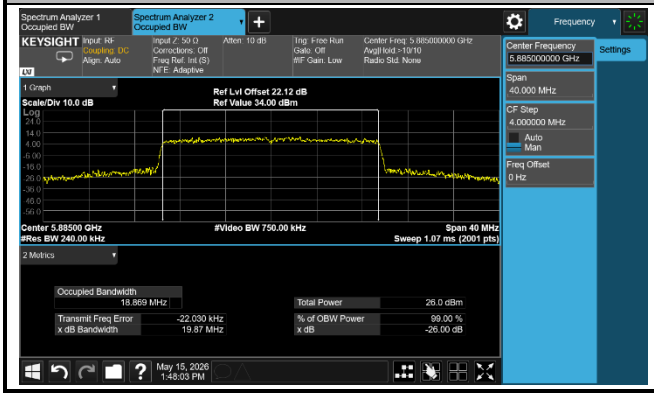
A.2 26 dB & 99% Bandwidth Test Result

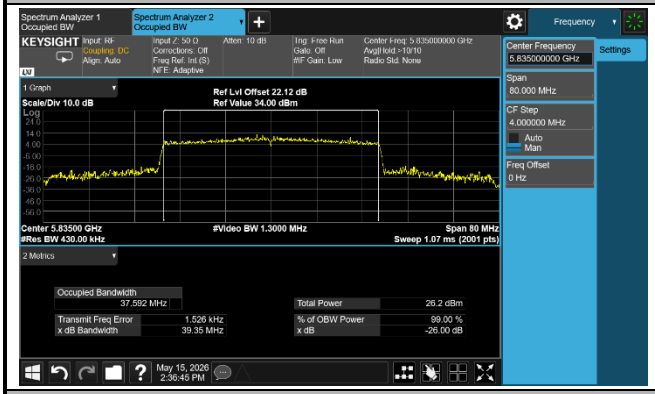
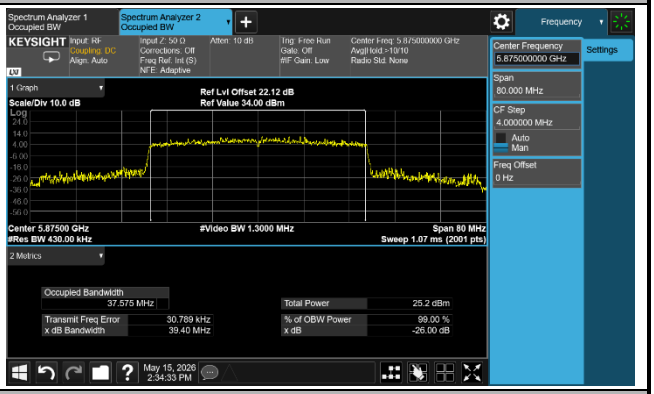
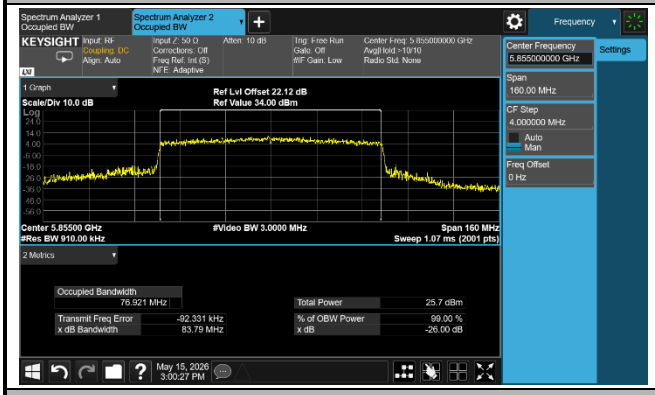
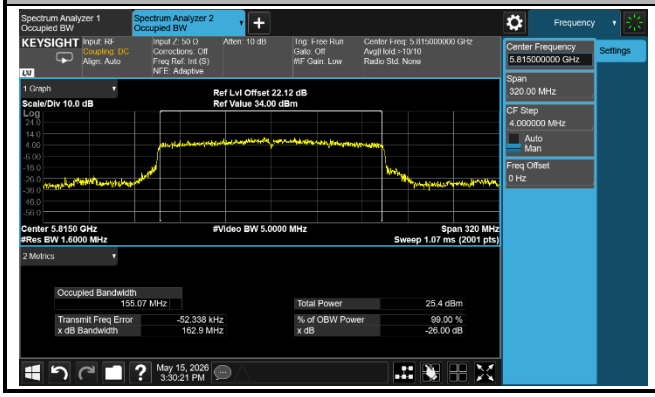
Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
11a	6 Mbps	169	5845	16.417	18.51
11a	6 Mbps	173	5865	16.407	18.31
11a	6 Mbps	177	5885	16.402	18.31
11ac-VHT20	MCS0	169	5845	17.536	19.70
11ac-VHT20	MCS0	173	5865	17.524	22.76
11ac-VHT20	MCS0	177	5885	17.507	20.22
11ac-VHT40	MCS0	167	5835	35.893	38.10
11ac-VHT40	MCS0	175	5875	35.849	38.01
11ac-VHT80	MCS0	171	5855	75.260	89.49
11ac-VHT160	MCS0	163	5815	153.590	161.30
11be-EHT20	MCS0	169	5845	18.847	20.34
11be-EHT20	MCS0	173	5865	18.902	19.99
11be-EHT20	MCS0	177	5885	18.869	19.87
11be-EHT40	MCS0	167	5835	37.592	39.35
11be-EHT40	MCS0	175	5875	37.575	39.40
11be-EHT80	MCS0	171	5855	76.921	83.79
11be-EHT160	MCS0	163	5815	155.070	162.90

802.11a 26 dB Bandwidth	
Channel 169 (5845 MHz)	Channel 173 (5865 MHz)
	
Channel 177 (5885 MHz)	
	
802.11ac-VHT20 26 dB Bandwidth	
Channel 169 (5845 MHz)	Channel 173 (5865 MHz)
	
Channel 177 (5885 MHz)	
	

802.11ac-VHT40 26 dB Bandwidth	
Channel 167 (5835 MHz)	Channel 175 (5875 MHz)
	
802.11ac-VHT80 26 dB Bandwidth	
Channel 171 (5855 MHz)	
	
802.11ac-VHT160 26 dB Bandwidth	
Channel 163 (5815 MHz)	
	

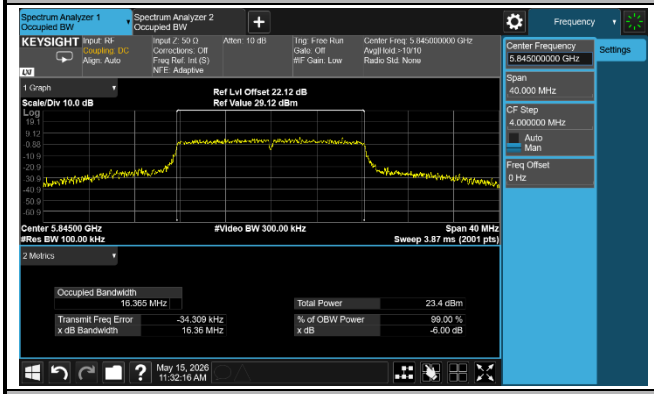
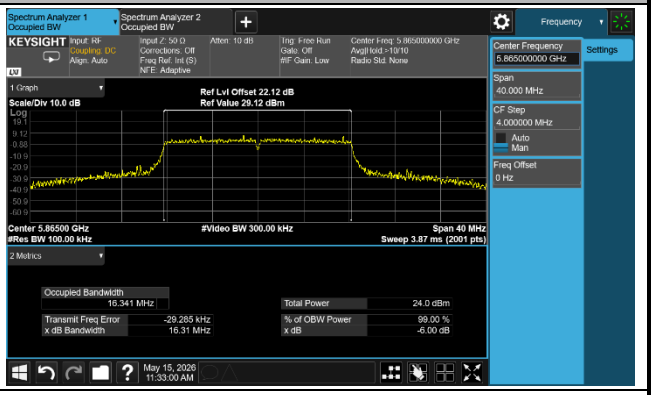
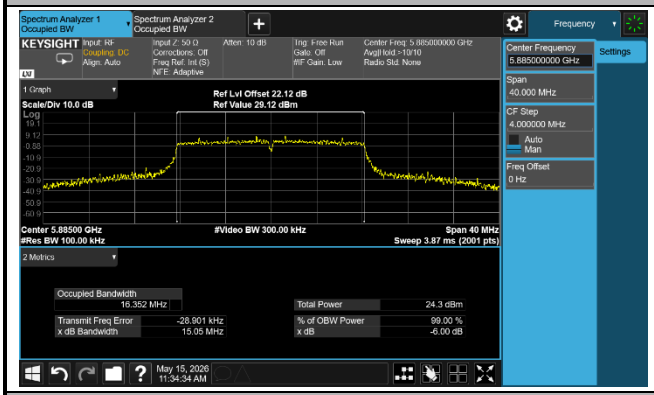
802.11be-EHT20 26 dB Bandwidth	
Channel 169 (5845 MHz)	Channel 173 (5865 MHz)
	
Channel 177 (5885 MHz)	
	

802.11be-EHT40 26 dB Bandwidth	
Channel 167 (5835 MHz)	Channel 175 (5875 MHz)
	
802.11be-EHT80 26 dB Bandwidth	
Channel 171 (5855 MHz)	
	
802.11be-EHT160 26 dB Bandwidth	
Channel 163 (5815 MHz)	
	

A.3 6 dB Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
11a	6 Mbps	169	5845	16.36	≥ 0.5
11a	6 Mbps	173	5865	16.31	≥ 0.5
11a	6 Mbps	177	5885	15.05	≥ 0.5
11ac-VHT20	MCS0	169	5845	16.79	≥ 0.5
11ac-VHT20	MCS0	173	5865	17.56	≥ 0.5
11ac-VHT20	MCS0	177	5885	17.61	≥ 0.5
11ac-VHT40	MCS0	167	5835	35.11	≥ 0.5
11ac-VHT40	MCS0	175	5875	35.14	≥ 0.5
11ac-VHT80	MCS0	171	5855	72.70	≥ 0.5
11ac-VHT160	MCS0	163	5815	155.10	≥ 0.5
11be-EHT20	MCS0	169	5845	16.74	≥ 0.5
11be-EHT20	MCS0	173	5865	18.13	≥ 0.5
11be-EHT20	MCS0	177	5885	17.67	≥ 0.5
11be-EHT40	MCS0	167	5835	33.76	≥ 0.5
11be-EHT40	MCS0	175	5875	35.10	≥ 0.5
11be-EHT80	MCS0	171	5855	75.20	≥ 0.5
11be-EHT160	MCS0	163	5815	152.70	≥ 0.5

802.11a 6 dB Bandwidth	
Channel 169 (5845 MHz)	Channel 173 (5865 MHz)
	
Channel 177 (5885 MHz)	
	

802.11ac-VHT20 6 dB Bandwidth	
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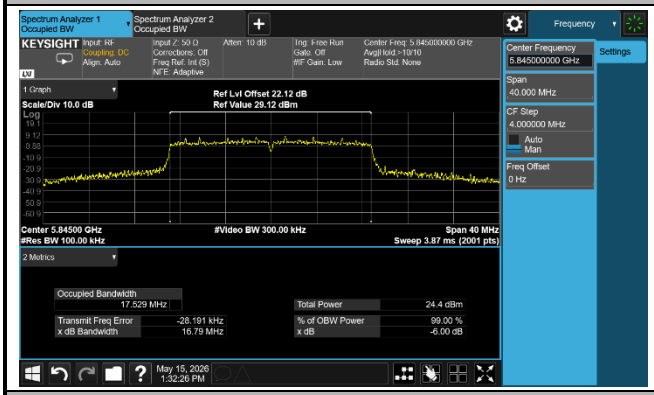
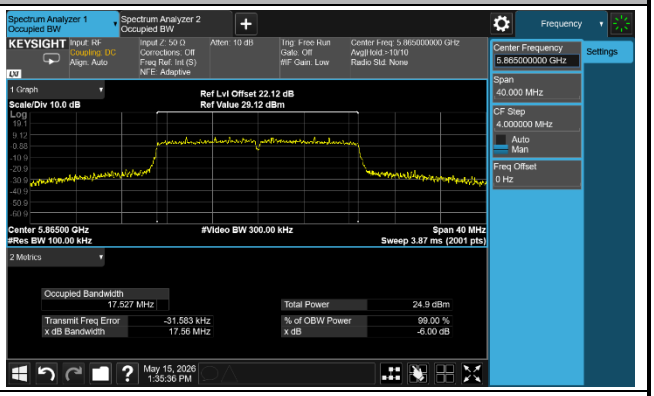
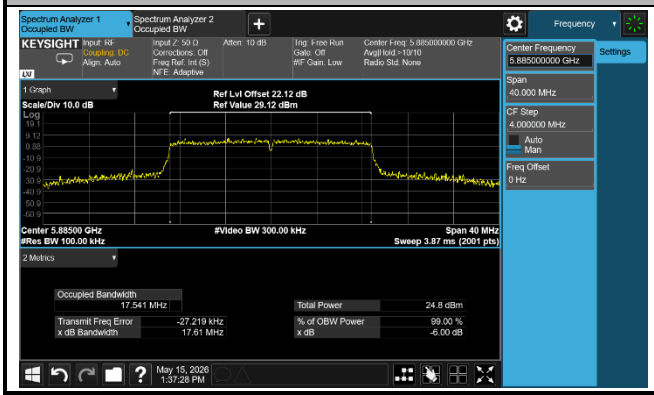
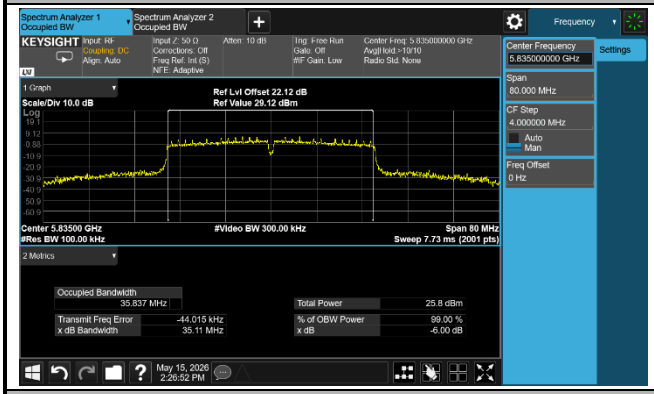
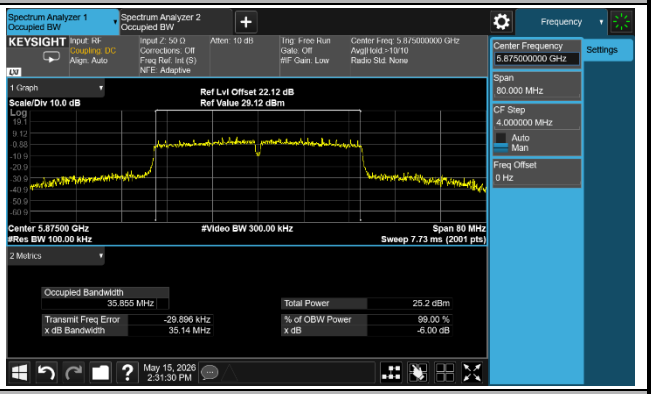
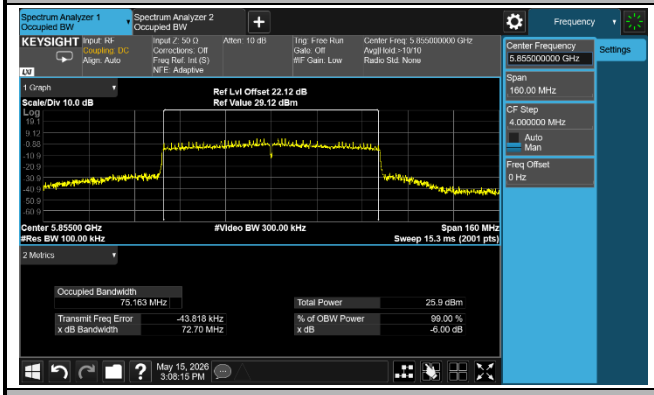
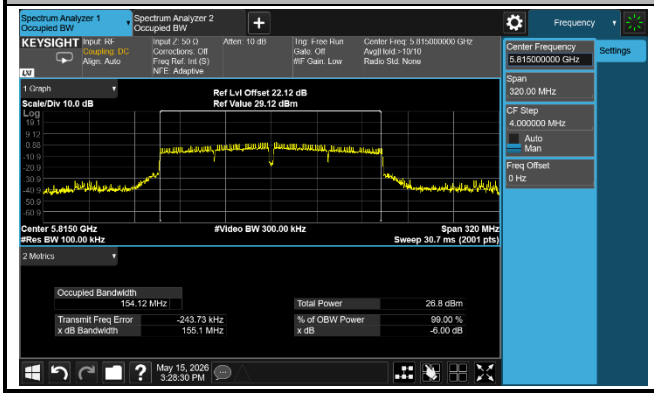
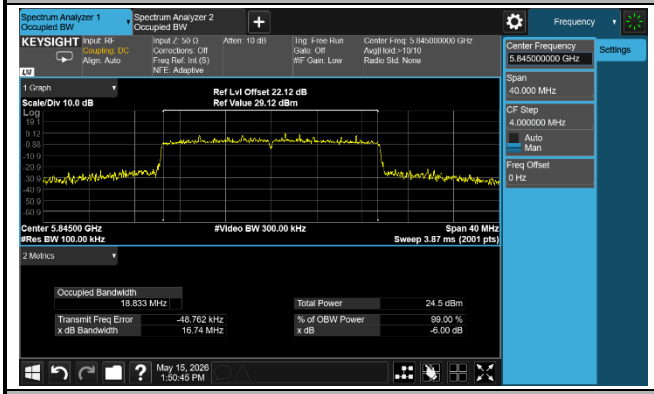
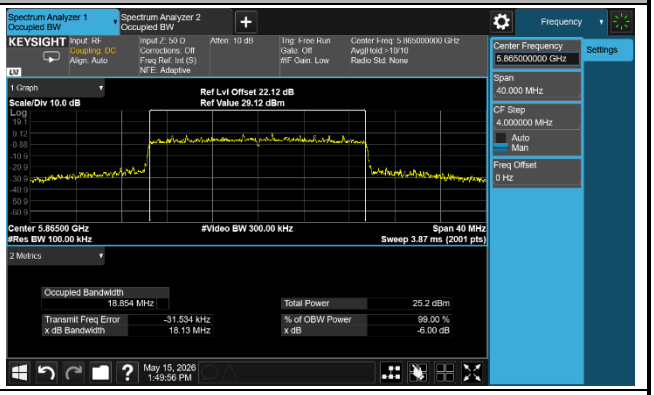
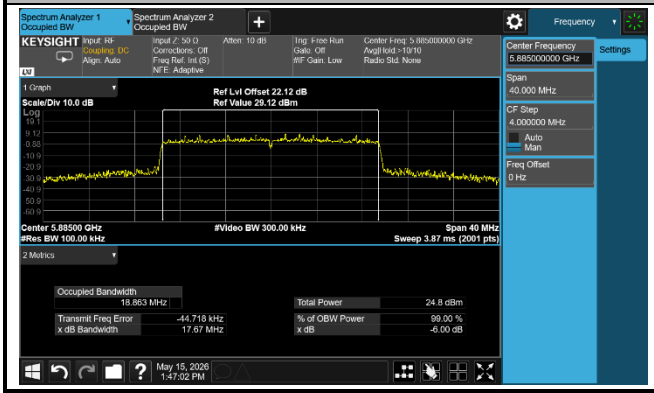
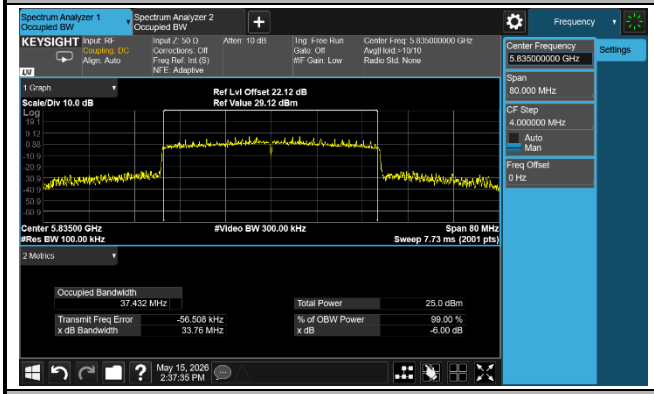
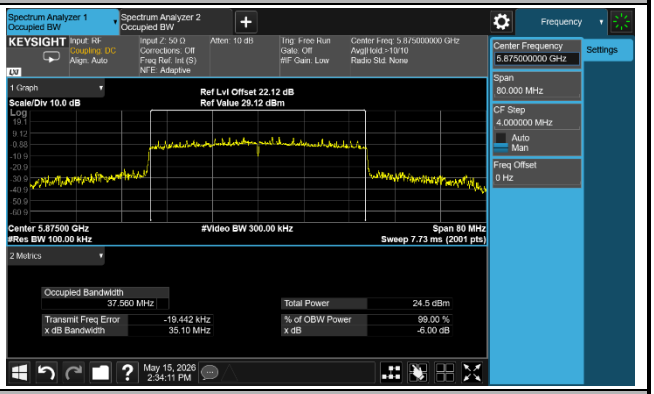
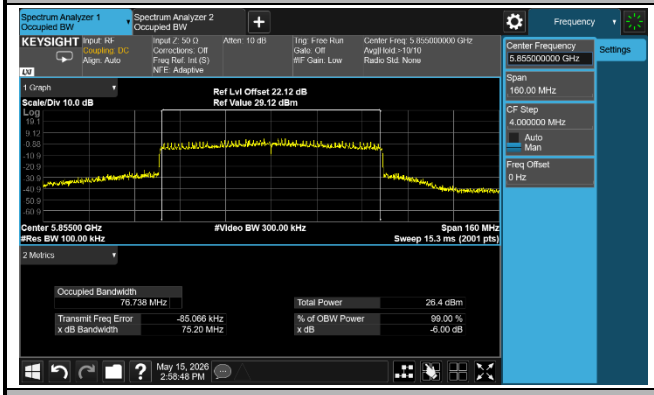
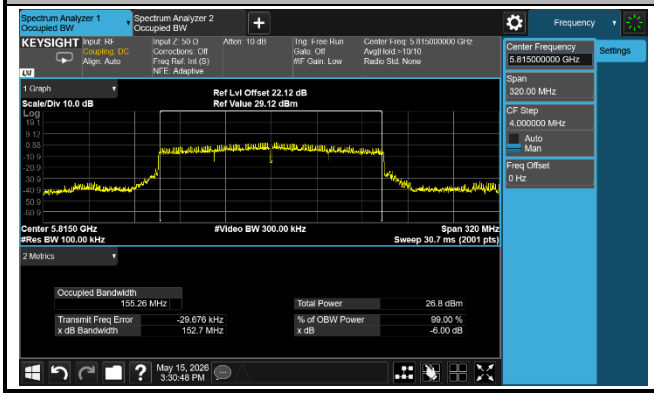
	
Channel 177 (5885 MHz)	
	

802.11ac-VHT40 6 dB Bandwidth	
Channel 167 (5835 MHz)	Channel 175 (5875 MHz)
	
802.11ac-VHT80 6 dB Bandwidth	
Channel 171 (5855 MHz)	
	
802.11ac-VHT160 6 dB Bandwidth	
Channel 163 (5815 MHz)	
	

802.11be-EHT20 6 dB Bandwidth	
Channel 169 (5845 MHz)	Channel 173 (5865 MHz)
	
Channel 177 (5885 MHz)	
	

802.11be-EHT40 6 dB Bandwidth	
Channel 167 (5835 MHz)	Channel 175 (5875 MHz)
	
802.11be-EHT80 6 dB Bandwidth	
Channel 171 (5855 MHz)	
	
802.11be-EHT160 6 dB Bandwidth	
Channel 163 (5815 MHz)	
	

A.4 Output Power Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-20	Test Mode	SISO Mode - Ant 0

Test Mode	Data Rate MCS	Channel No.	Frequency (MHz)	Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
11a	6 Mbps	169	5845	17.93	7.00	24.93	≤ 36.00
11a	6 Mbps	173	5865	17.89	7.00	24.89	≤ 36.00
11a	6 Mbps	177	5885	18.02	7.00	25.02	≤ 36.00

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-20	Test Mode	SISO Mode - Ant 1

Test Mode	Data Rate MCS	Channel No.	Frequency (MHz)	Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
11a	6 Mbps	169	5845	17.61	7.00	24.61	≤ 36.00
11a	6 Mbps	173	5865	18.04	7.00	25.04	≤ 36.00
11a	6 Mbps	177	5885	18.39	7.00	25.39	≤ 36.00

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-20	Test Mode	SISO Mode - Ant 2

Test Mode	Data Rate MCS	Channel No.	Frequency (MHz)	Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
11a	6 Mbps	169	5845	19.78	7.00	26.78	≤ 36.00
11a	6 Mbps	173	5865	19.69	7.00	26.69	≤ 36.00
11a	6 Mbps	177	5885	19.62	7.00	26.62	≤ 36.00

Note: EIRP Power (dBm) = Average Power (dBm) + Antenna Gain (dBi).

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-20	Test Mode	MIMO Mode - Ant 0 & Ant 1

Test Mode	Data Rate MCS	Channel No.	Frequency (MHz)	Average Power (dBm)		Total Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
				Ant 0	Ant 1				
11ac-VHT20	MCS0	169	5845	17.41	17.15	20.29	7.00	27.29	≤ 36.00
11ac-VHT20	MCS0	173	5865	17.64	17.43	20.55	7.00	27.55	≤ 36.00
11ac-VHT20	MCS0	177	5885	17.78	17.67	20.74	7.00	27.74	≤ 36.00
11ac-VHT40	MCS0	167	5835	18.75	18.24	21.51	7.00	28.51	≤ 36.00
11ac-VHT40	MCS0	175	5875	18.71	18.48	21.61	7.00	28.61	≤ 36.00
11ac-VHT80	MCS0	171	5855	17.74	18.39	21.09	7.00	28.09	≤ 36.00
11ac-VHT160	MCS0	163	5815	18.38	17.81	21.11	7.00	28.11	≤ 36.00
11be-EHT20	MCS0	169	5845	18.53	17.35	20.99	7.00	27.99	≤ 36.00
11be-EHT20	MCS0	173	5865	17.28	17.77	20.54	7.00	27.54	≤ 36.00
11be-EHT20	MCS0	177	5885	17.57	18.02	20.81	7.00	27.81	≤ 36.00
11be-EHT40	MCS0	167	5835	18.43	18.41	21.43	7.00	28.43	≤ 36.00
11be-EHT40	MCS0	175	5875	18.35	17.47	20.94	7.00	27.94	≤ 36.00
11be-EHT80	MCS0	171	5855	18.60	18.02	21.33	7.00	28.33	≤ 36.00
11be-EHT160	MCS0	163	5815	17.55	17.72	20.65	7.00	27.65	≤ 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) + Antenna Gain (dBi).

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-20	Test Mode	MIMO Mode - Ant 0 & Ant 2

Test Mode	Data Rate MCS	Channel No.	Frequency (MHz)	Average Power (dBm)		Total Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
				Ant 0	Ant 2				
11ac-VHT20	MCS0	169	5845	17.41	19.22	21.42	7.00	28.42	≤ 36.00
11ac-VHT20	MCS0	173	5865	17.64	19.25	21.53	7.00	28.53	≤ 36.00
11ac-VHT20	MCS0	177	5885	17.78	19.29	21.61	7.00	28.61	≤ 36.00
11ac-VHT40	MCS0	167	5835	18.75	18.73	21.75	7.00	28.75	≤ 36.00
11ac-VHT40	MCS0	175	5875	18.71	19.69	22.24	7.00	29.24	≤ 36.00
11ac-VHT80	MCS0	171	5855	17.74	18.75	21.28	7.00	28.28	≤ 36.00
11ac-VHT160	MCS0	163	5815	18.38	19.48	21.98	7.00	28.98	≤ 36.00
11be-EHT20	MCS0	169	5845	18.53	18.61	21.58	7.00	28.58	≤ 36.00
11be-EHT20	MCS0	173	5865	17.28	19.06	21.27	7.00	28.27	≤ 36.00
11be-EHT20	MCS0	177	5885	17.57	19.33	21.55	7.00	28.55	≤ 36.00
11be-EHT40	MCS0	167	5835	18.43	18.59	21.52	7.00	28.52	≤ 36.00
11be-EHT40	MCS0	175	5875	18.35	18.89	21.64	7.00	28.64	≤ 36.00
11be-EHT80	MCS0	171	5855	18.60	18.98	21.80	7.00	28.80	≤ 36.00
11be-EHT160	MCS0	163	5815	17.55	19.24	21.49	7.00	28.49	≤ 36.00

Note 1: Total Average Power (dBm) = 10 × log {$10^{(\text{Ant 0 Average Power /10})}$ + $10^{(\text{Ant 2 Average Power /10})}$}.

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

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-20	Test Mode	MIMO Mode - Ant 1 & Ant 2

Test Mode	Data Rate MCS	Channel No.	Frequency (MHz)	Average Power (dBm)		Total Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
				Ant 1	Ant 2				
11ac-VHT20	MCS0	169	5845	17.15	19.22	21.32	7.00	28.32	≤ 36.00
11ac-VHT20	MCS0	173	5865	17.43	19.25	21.44	7.00	28.44	≤ 36.00
11ac-VHT20	MCS0	177	5885	17.67	19.29	21.57	7.00	28.57	≤ 36.00
11ac-VHT40	MCS0	167	5835	18.24	18.73	21.50	7.00	28.50	≤ 36.00
11ac-VHT40	MCS0	175	5875	18.48	19.69	22.14	7.00	29.14	≤ 36.00
11ac-VHT80	MCS0	171	5855	18.39	18.75	21.58	7.00	28.58	≤ 36.00
11ac-VHT160	MCS0	163	5815	17.81	19.48	21.74	7.00	28.74	≤ 36.00
11be-EHT20	MCS0	169	5845	17.35	18.61	21.04	7.00	28.04	≤ 36.00
11be-EHT20	MCS0	173	5865	17.77	19.06	21.47	7.00	28.47	≤ 36.00
11be-EHT20	MCS0	177	5885	18.02	19.33	21.73	7.00	28.73	≤ 36.00
11be-EHT40	MCS0	167	5835	18.41	18.59	21.51	7.00	28.51	≤ 36.00
11be-EHT40	MCS0	175	5875	17.47	18.89	21.25	7.00	28.25	≤ 36.00
11be-EHT80	MCS0	171	5855	18.02	18.98	21.54	7.00	28.54	≤ 36.00
11be-EHT160	MCS0	163	5815	17.72	19.24	21.56	7.00	28.56	≤ 36.00

Note 1: Total Average Power (dBm) = 10 × log {$10^{(\text{Ant 1 Average Power }/10)}$ + $10^{(\text{Ant 2 Average Power }/10)}$}.

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

A.5 Power Spectral Density Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15	Test Mode	SISO Mode - Ant 0

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
11a	6 Mbps	169	5845	7.141	96.06	7.316	7.00	14.316	≤ 20.00
11a	6 Mbps	173	5865	7.327	96.06	7.502	7.00	14.502	≤ 20.00
11a	6 Mbps	177	5885	7.271	96.06	7.446	7.00	14.446	≤ 20.00

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15	Test Mode	SISO Mode - Ant 1

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
11a	6 Mbps	169	5845	7.170	96.06	7.345	7.00	14.345	≤ 20.00
11a	6 Mbps	173	5865	7.080	96.06	7.255	7.00	14.255	≤ 20.00
11a	6 Mbps	177	5885	7.172	96.06	7.347	7.00	14.347	≤ 20.00

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15	Test Mode	SISO Mode - Ant 2

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
11a	6 Mbps	169	5845	7.295	96.06	7.470	7.00	14.470	≤ 20.00
11a	6 Mbps	173	5865	7.967	96.06	8.142	7.00	15.142	≤ 20.00
11a	6 Mbps	177	5885	8.026	96.06	8.201	7.00	15.201	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = AVPSD (dBm/MHz) + 10 ×log(1/Duty cycle).

Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Directional Antenna Gain for PSD (dBi).

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15 ~ 2026-05-19	Test Mode	MIMO Mode - Ant 0 & Ant 1

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 0	Ant 1				
11ac-VHT20	MCS0	169	5845	5.338	4.391	92.47	8.241	18.251	≤ 20.00
11ac-VHT20	MCS0	173	5865	4.732	4.218	92.47	7.833	17.843	≤ 20.00
11ac-VHT20	MCS0	177	5885	5.161	5.222	92.47	8.542	18.552	≤ 20.00
11ac-VHT40	MCS0	167	5835	4.443	4.696	84.52	8.312	18.322	≤ 20.00
11ac-VHT40	MCS0	175	5875	4.284	5.042	84.52	8.420	18.430	≤ 20.00
11ac-VHT80	MCS0	171	5855	1.005	1.358	77.60	5.297	15.307	≤ 20.00
11ac-VHT160	MCS0	163	5815	-2.627	-2.300	68.25	2.209	12.219	≤ 20.00
11be-EHT20	MCS0	169	5845	5.406	4.127	91.05	8.231	18.241	≤ 20.00
11be-EHT20	MCS0	173	5865	5.296	4.385	91.05	8.282	18.292	≤ 20.00
11be-EHT20	MCS0	177	5885	5.690	3.453	91.05	8.131	18.141	≤ 20.00
11be-EHT40	MCS0	167	5835	4.901	4.545	85.12	8.437	18.447	≤ 20.00
11be-EHT40	MCS0	175	5875	5.007	4.312	85.12	8.383	18.393	≤ 20.00
11be-EHT80	MCS0	171	5855	1.509	1.143	74.07	5.644	15.654	≤ 20.00
11be-EHT160	MCS0	163	5815	-1.959	-1.478	69.99	2.848	12.858	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = 10 × log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 1 AVGPSD}/10)}$} + 10 × log (1/Duty cycle).

Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Directional Antenna Gain for PSD (dBi).

Note 3: For Channels span the 5.725-5.850 GHz and 5.850-5.895 GHz bands, we record the maximum level of 5.725-5.850 GHz and 5.850-5.895 GHz with RBW = 1 MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15 ~ 2026-05-19	Test Mode	MIMO Mode - Ant 0 & Ant 2

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 0	Ant 2				
11ac-VHT20	MCS0	169	5845	5.338	7.267	92.47	9.759	19.769	≤ 20.00
11ac-VHT20	MCS0	173	5865	4.732	7.772	92.47	9.863	19.873	≤ 20.00
11ac-VHT20	MCS0	177	5885	5.161	6.697	92.47	9.347	19.357	≤ 20.00
11ac-VHT40	MCS0	167	5835	4.443	6.158	84.52	9.125	19.135	≤ 20.00
11ac-VHT40	MCS0	175	5875	4.284	5.867	84.52	8.888	18.898	≤ 20.00
11ac-VHT80	MCS0	171	5855	1.005	0.339	77.60	4.796	14.806	≤ 20.00
11ac-VHT160	MCS0	163	5815	-2.627	-1.260	68.25	2.779	12.789	≤ 20.00
11be-EHT20	MCS0	169	5845	5.406	5.906	91.05	9.081	19.091	≤ 20.00
11be-EHT20	MCS0	173	5865	5.296	6.206	91.05	9.192	19.202	≤ 20.00
11be-EHT20	MCS0	177	5885	5.690	7.115	91.05	9.878	19.888	≤ 20.00
11be-EHT40	MCS0	167	5835	4.901	6.240	85.12	9.332	19.342	≤ 20.00
11be-EHT40	MCS0	175	5875	5.007	5.818	85.12	9.141	19.151	≤ 20.00
11be-EHT80	MCS0	171	5855	1.509	1.836	74.07	5.989	15.999	≤ 20.00
11be-EHT160	MCS0	163	5815	-1.959	-0.588	69.99	3.340	13.350	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = 10 × log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$} + 10 × log (1/Duty cycle).

Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Directional Antenna Gain for PSD (dBi).

Note 3: For Channels span the 5.725-5.850 GHz and 5.850-5.895 GHz bands, we record the maximum level of 5.725-5.850 GHz and 5.850-5.895 GHz with RBW = 1 MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

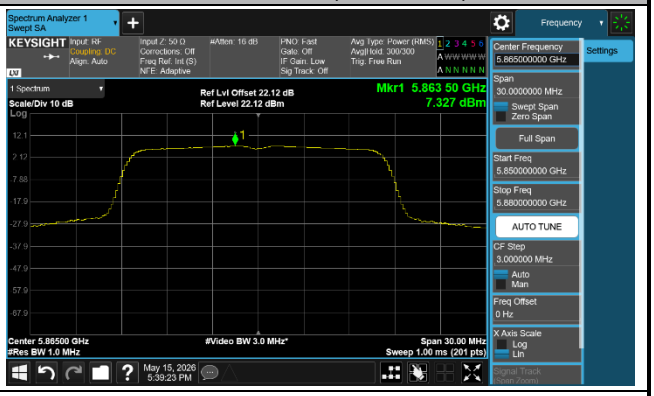
Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-05-15 ~ 2026-05-19	Test Mode	MIMO Mode - Ant 1 & Ant 2

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 1	Ant 2				
11ac-VHT20	MCS0	169	5845	4.391	7.267	92.47	9.413	19.423	≤ 20.00
11ac-VHT20	MCS0	173	5865	4.218	7.772	92.47	9.699	19.709	≤ 20.00
11ac-VHT20	MCS0	177	5885	5.222	6.697	92.47	9.372	19.382	≤ 20.00
11ac-VHT40	MCS0	167	5835	4.696	6.158	84.52	9.229	19.239	≤ 20.00
11ac-VHT40	MCS0	175	5875	5.042	5.867	84.52	9.215	19.225	≤ 20.00
11ac-VHT80	MCS0	171	5855	1.358	0.339	77.60	4.990	15.000	≤ 20.00
11ac-VHT160	MCS0	163	5815	-2.300	-1.260	68.25	2.920	12.930	≤ 20.00
11be-EHT20	MCS0	169	5845	4.127	5.906	91.05	8.524	18.534	≤ 20.00
11be-EHT20	MCS0	173	5865	4.385	6.206	91.05	8.808	18.818	≤ 20.00
11be-EHT20	MCS0	177	5885	3.453	7.115	91.05	9.077	19.087	≤ 20.00
11be-EHT40	MCS0	167	5835	4.545	6.240	85.12	9.185	19.195	≤ 20.00
11be-EHT40	MCS0	175	5875	4.312	5.818	85.12	8.840	18.850	≤ 20.00
11be-EHT80	MCS0	171	5855	1.143	1.836	74.07	5.817	15.827	≤ 20.00
11be-EHT160	MCS0	163	5815	-1.478	-0.588	69.99	3.550	13.560	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = 10 × log {$10^{(\text{Ant 1 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$} + 10×log (1/Duty cycle).

Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Directional Antenna Gain for PSD (dBi).

Note 3: For Channels span the 5.725-5.850 GHz and 5.850-5.895 GHz bands, we record the maximum level of 5.725-5.850 GHz and 5.850-5.895 GHz with RBW = 1 MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

802.11a Power Spectral Density - Ant 0	
Channel 169 (5845 MHz)	Channel 173 (5865 MHz)
	
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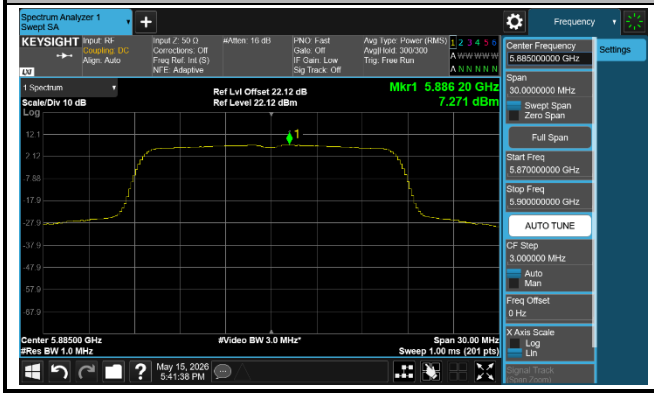	

802.11ac-VHT20 Power Spectral Density - Ant 0	
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	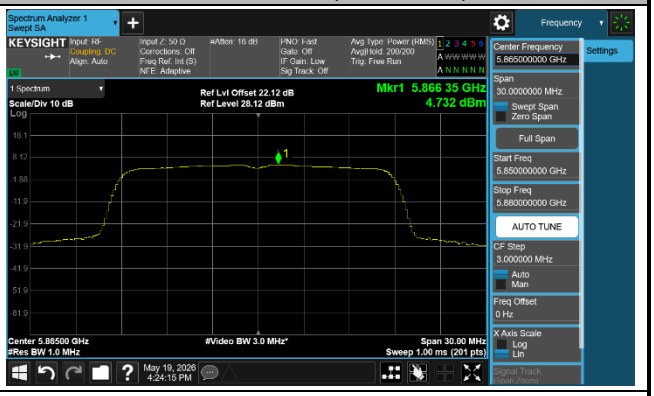
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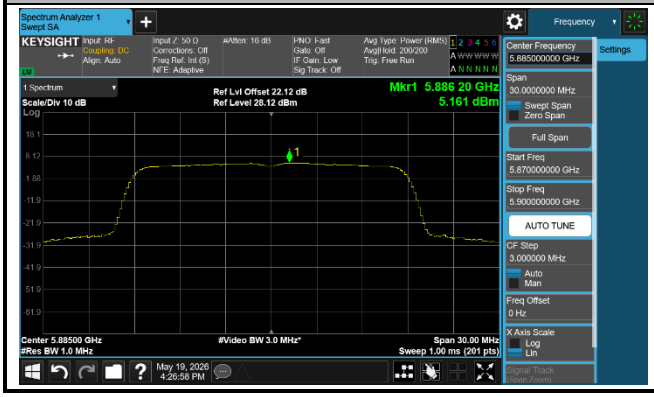
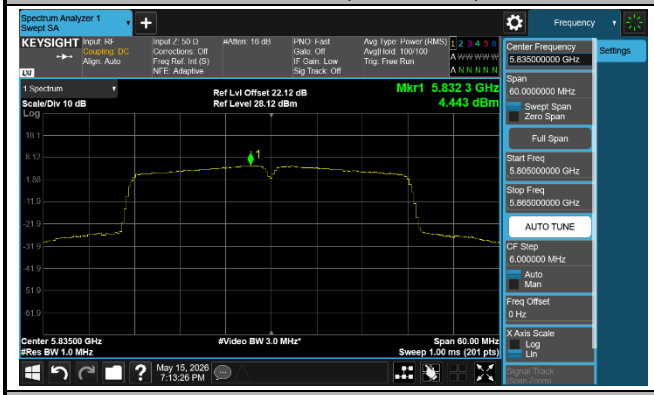
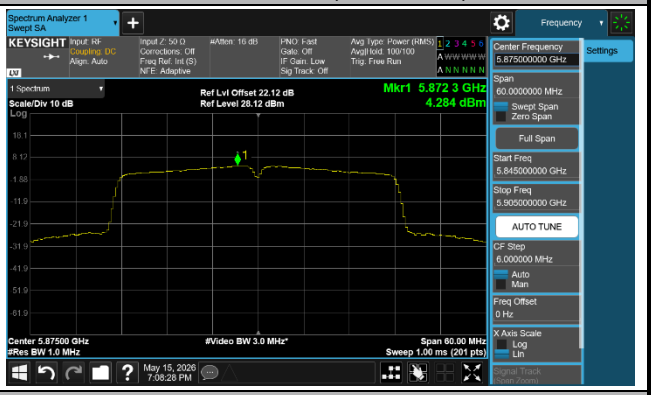
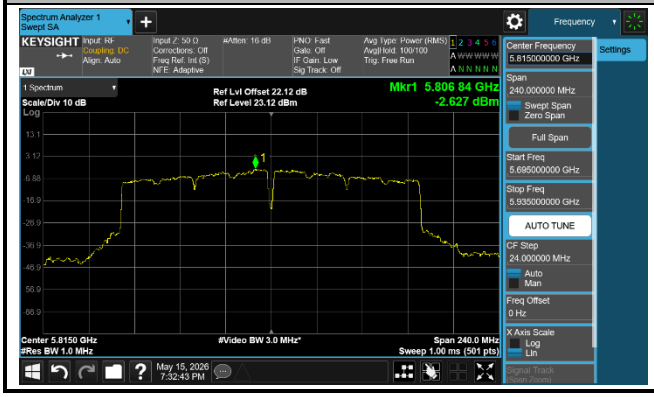
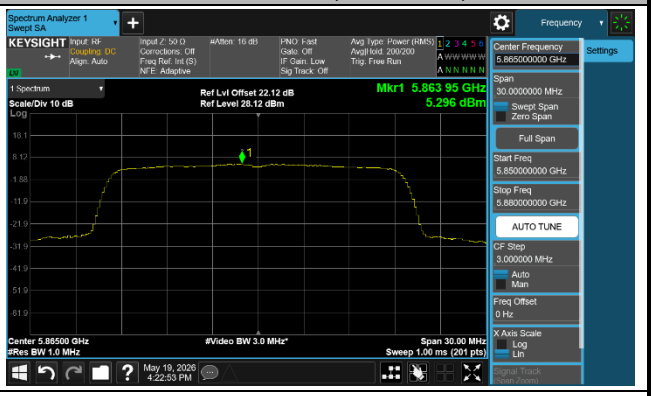
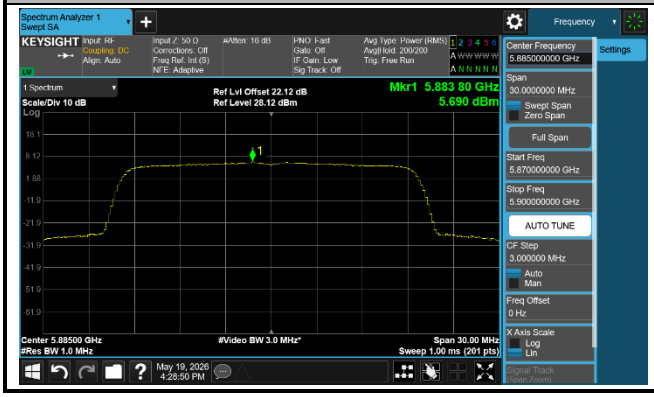
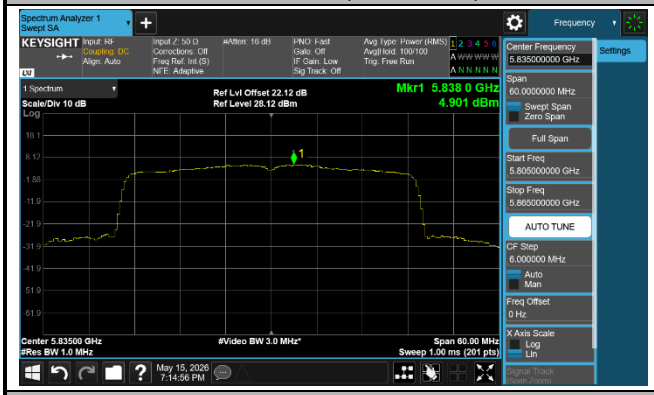
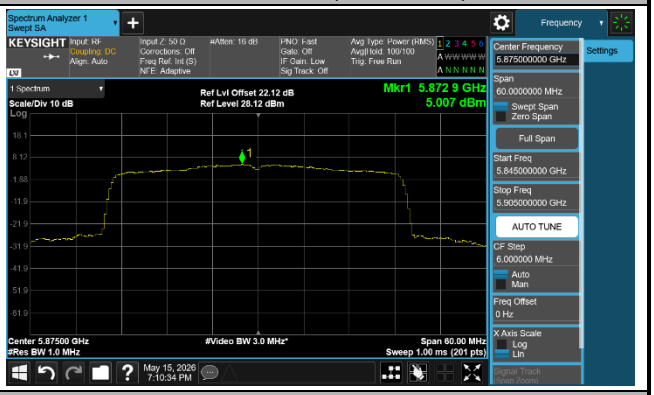
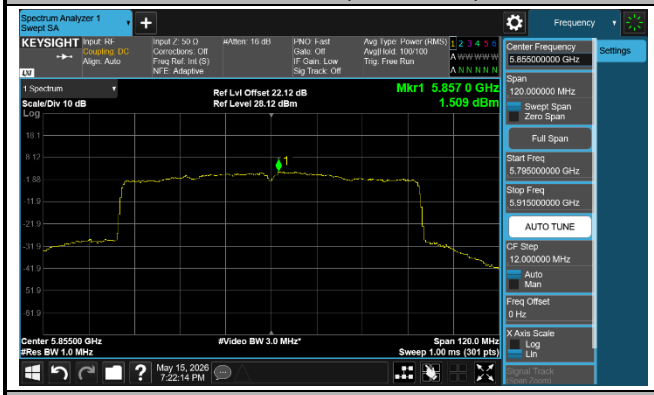
	

802.11ac-VHT40 Power Spectral Density - Ant 0	
Channel 167 (5835 MHz)	Channel 175 (5875 MHz)
	
802.11ac-VHT80 Power Spectral Density - Ant 0	
Channel 171 (5855 MHz)	
	
802.11ac-VHT160 Power Spectral Density - Ant 0	
Channel 163 (5815 MHz)	
	

802.11be-EHT20 Power Spectral Density - Ant 0	
Channel 169 (5845 MHz)	Channel 173 (5865 MHz)
	
Channel 177 (5885 MHz)	
	

802.11be-EHT40 Power Spectral Density - Ant 0	
Channel 167 (5835 MHz)	Channel 175 (5875 MHz)
	
802.11be-EHT80 Power Spectral Density - Ant 0	
Channel 171 (5855 MHz)	
	
802.11be-EHT160 Power Spectral Density - Ant 0	
Channel 163 (5815 MHz)