



RF MEASUREMENT REPORT

FCC ID: TV7E62U52AX
Applicant: Mikrotiks SIA
Product: hAP ax S
Model No.: E62iUGS-2axD5axT-US
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: 2025-04-28
Test Date: 2025-06-13 ~ 2025-07-01

Reviewed By:

Vincent Yu

Vincent Yu

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033 and KDB 291074. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1027042-U204	V01	Initial Report	2025-10-10	Valid

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1. General Information

1.1. Applicant

Mikrotikls SIA

Unijas 2, Riga, LV-1039, Latvia

1.2. Manufacturer

Mikrotikls SIA

Unijas 2, Rīga, 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 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
	CNAS: L10551 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
	CNAS: L10551 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 ax S
Model No.	E62iUGS-2axD5axT-US
Brand Name	MikroTik
Serial No.	HJA0ABN5FTD for Conducted Testing HJA0A3TEVJX for Radiated Testing
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Product Voltage	AC/DC Adapter
Antenna Information	Refer to Section 1.7
Operating Environment	Indoor Use
Accessory	
AC/DC Adapter	Model: SAW36-240-1500U Input: 100-240V ~ 50/60Hz 1.3A Output: 24.0V = 1.5A 36.0W
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	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5845MHz, 5865MHz, 5885MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5835MHz, 5875MHz For 802.11ac-VHT80/ax-HE80: 5855MHz For 802.11ax-VHT160/ax-HE160: 5815MHz	
Type of Modulation	802.11a/n/ac: OFDM 802.11ax: OFDMA	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 1732Mbps 802.11ax: up to 2402Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

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

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

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

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

802.11ac-VHT80/ax-HE80

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

802.11ac-VHT160/ax-HE160

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

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Tx Paths	Directional Gain (dBi)			
			For Power		For PSD	
			SISO Mode	MIMO Mode	SISO Mode	MIMO Mode
Internal Antenna	2400 ~ 2483.5	2	6.00	6.00	6.00	9.01
	5150 ~ 5250	3	8.00	8.00	8.00	11.01
	5250 ~ 5350	3	8.00	8.00	8.00	11.01
	5470 ~ 5725	3	8.00	8.00	8.00	11.01
	5725 ~ 5850	3	8.00	8.00	8.00	11.01
	5850 ~ 5895	3	8.00	8.00	8.00	11.01
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. This device has 3 antennas for transmitting 5G-WiFi, but only 2 of them can work simultaneously at a time.						

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

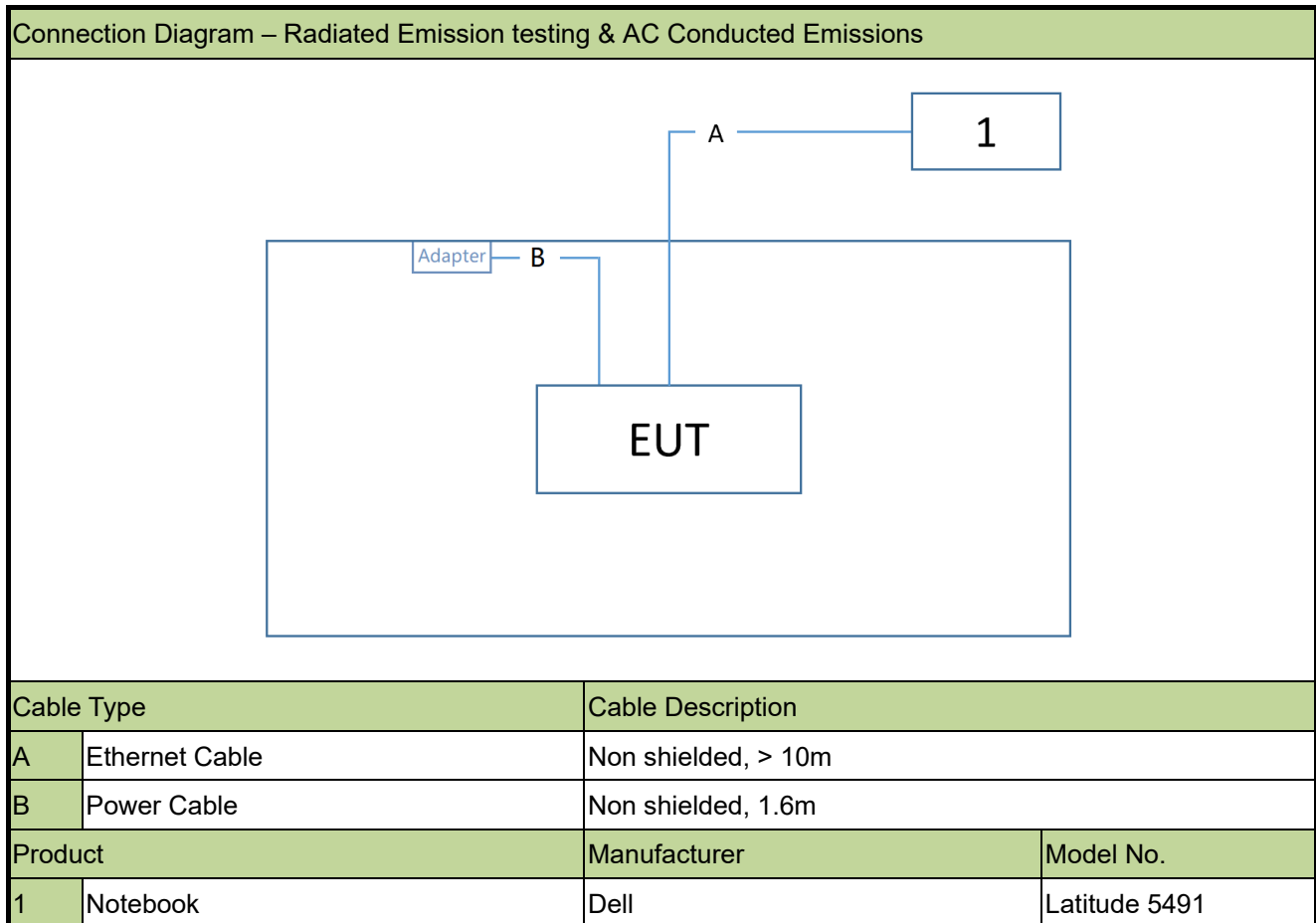
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11a_Nss=1 (6Mbps) (SISO Mode)
Mode 2: Transmit by 802.11ac-VHT20_Nss=1 (MCS0) (MIMO Mode)
Mode 3: Transmit by 802.11ac-VHT40_Nss=1 (MCS0) (MIMO Mode)
Mode 4: Transmit by 802.11ac-VHT80_Nss=1 (MCS0) (MIMO Mode)
Mode 5: Transmit by 802.11ac-VHT160_Nss=1 (MCS0) (MIMO Mode)
Mode 6: Transmit by 802.11ax-HE20_Nss=1 (MCS0) (MIMO Mode)
Mode 7: Transmit by 802.11ax-HE40_Nss=1 (MCS0) (MIMO Mode)
Mode 8: Transmit by 802.11ax-HE80_Nss=1 (MCS0) (MIMO Mode)
Mode 9: Transmit by 802.11ax-HE160_Nss=1 (MCS0) (MIMO Mode)
Note 1: 802.11n and 802.11ac have same modulation type and same power value, so we only show 802.11ac test data in report.
Note 2: All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.3. Test Software

The test utility software used during testing was “WinBox”, and the version was 4.0.

Note: Final power setting please refer to operational description.

2.4. Applied Standards

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

- FCC Part 15.407
- KDB 789033 D02v02r01
- KDB 291074 D02v01
- KDB 662911 D01v02r01
- ANSI C63.10-2020
- ANSI C63.10-2020/Cor1-2023
- ANSI C63.10a-2024

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
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2026-04-26	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2026-03-18	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2026-04-26	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2026-04-24	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2025-09-05	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2026-04-24	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2026-04-26	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11091	1 year	2026-06-02	WZ-SR5
USB Power Sensor	Agilent	U2021XA	MRTSUE06030	1 year	2025-09-11	WZ-SR5
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2026-03-31	WZ-SR5
Cable	UCwave	UCE500	2406058	Note	Note	WZ-SR5
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2025-09-02	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2025-12-10	WZ-TR3
Attenuator	MVE	MVE2213	MRTSUE11093	1 year	2026-06-02	WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE07027	1 year	2025-10-13	WZ-TR3
Cable	UCwave	UCE500	2406055	Note	Note	WZ-TR3

Note: The loss of the RF cable will be measured before testing.

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	1.02	RE Antenna & Turntable
BenchVue Power Meter	2018.1	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:	
9kHz~150kHz: 3.58dB	
150kHz~30MHz: 3.20dB	
Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9kHz~30MHz: 2.35dB
Coplanar:	9kHz~30MHz: 2.37dB
Horizontal:	30MHz~200MHz: 3.47dB
	200MHz~1GHz: 4.17dB
	1GHz~40GHz: 4.97dB
Vertical:	30MHz~200MHz: 4.07dB
	200MHz~1GHz: 5.28dB
	1GHz~40GHz: 4.84dB
Spurious Emissions, Conducted	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
2.5dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
1.5dB	
Power Spectrum Density	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
2.5dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
3.2%	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)	26dB Bandwidth	Conducted	Pass
15.407(e)	6dB 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 150kHz - 30MHz	Line Conducted	Pass

Notes:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies
2. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
3. For “26dB Bandwidth” and “6dB Bandwidth” test item, only Ant 0 port was performed in the report.

6.2. 26dB & 99% Bandwidth Measurement

6.2.1. Test Limit

N/A

6.2.2. Test Procedure

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

KDB 789033 D02v02r01- Section D (99% Bandwidth)

6.2.3. Test Setting

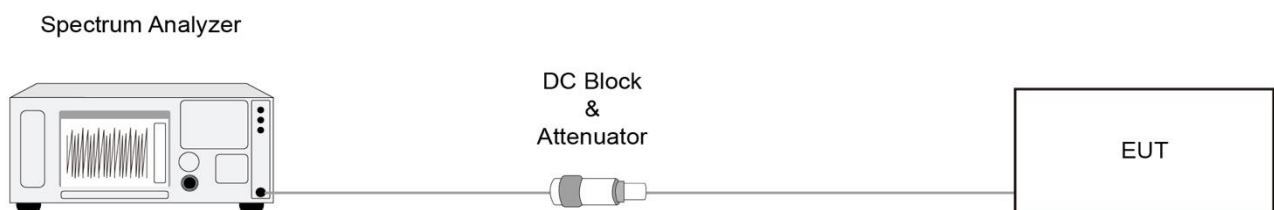
26dB Bandwidth

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 $\geq 3 \times$ 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. 6dB Bandwidth Measurement

6.3.1. Test Limit

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

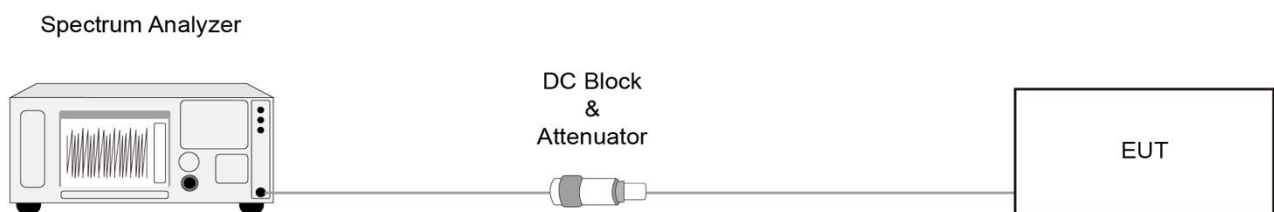
6.3.2. Test Procedure

KDB 789033 D02v02r01- 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 $\geq 3 \times$ 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

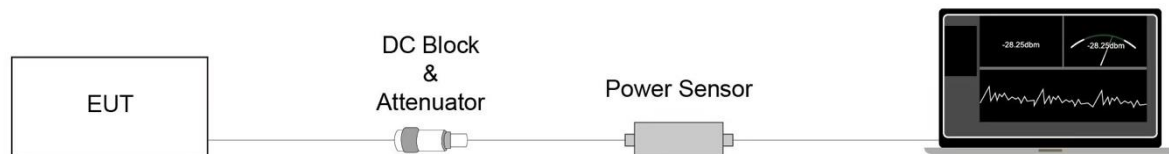
KDB 789033D02v02r01- Section E)3)b) Method PM-G

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.

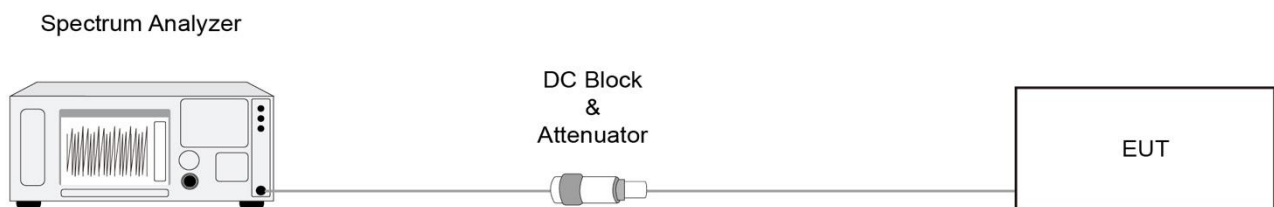
6.5.2. Test Procedure

KDB 789033 D02v02r01-SectionF

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 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = $3 \times \text{RBW}$
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
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 $10 \cdot \log(1/x)$, 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 $10 \cdot \log(1/0.25) = 6 \text{ dB}$ 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:

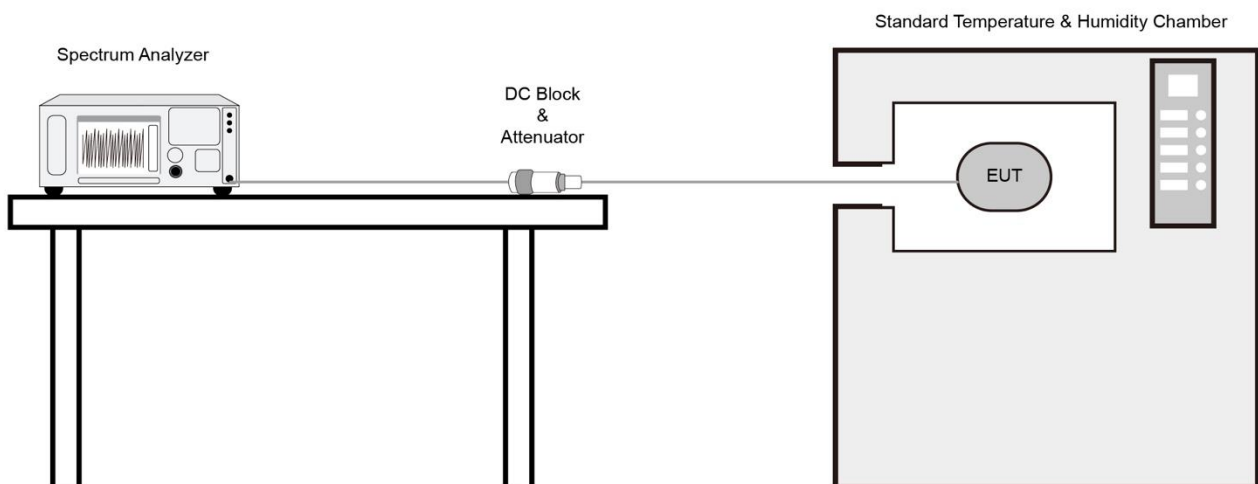
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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 ($\pm 15\%$) 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 [$\mu\text{V/m}$]	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 D02v02r01- 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
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

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

Average Measurements above 1GHz (Method VB)

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

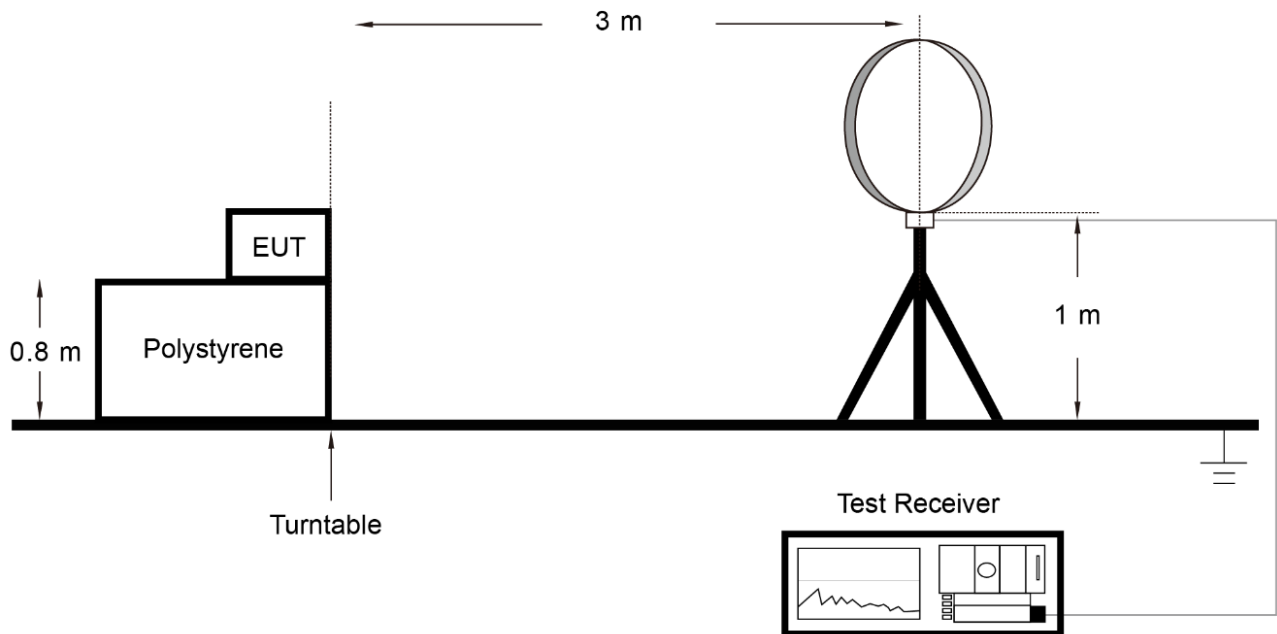
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.

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

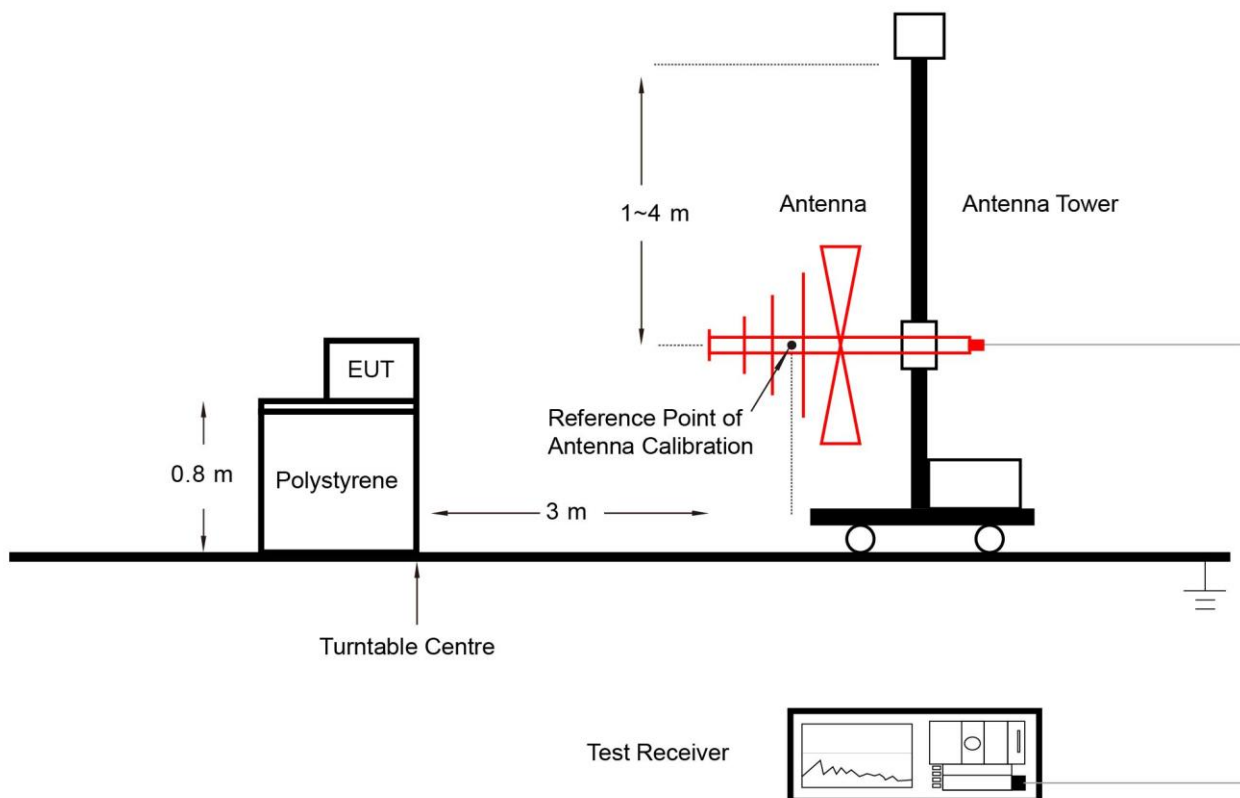
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.7.4. Test Setup

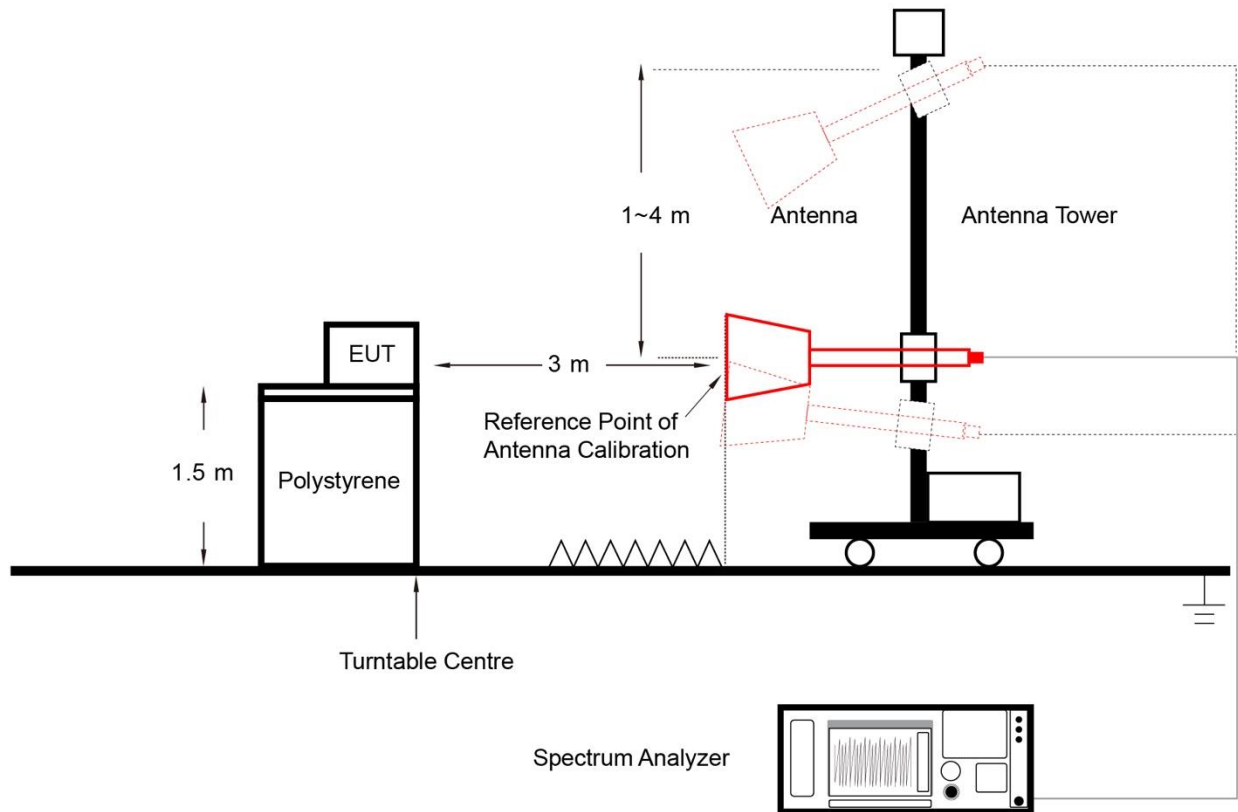
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz 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 5.895GHz 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 5.925GHz.

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.

$E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, for example, -27 dBm/MHz = 68.2 dB μ V/m

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μ V/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 1GHz

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

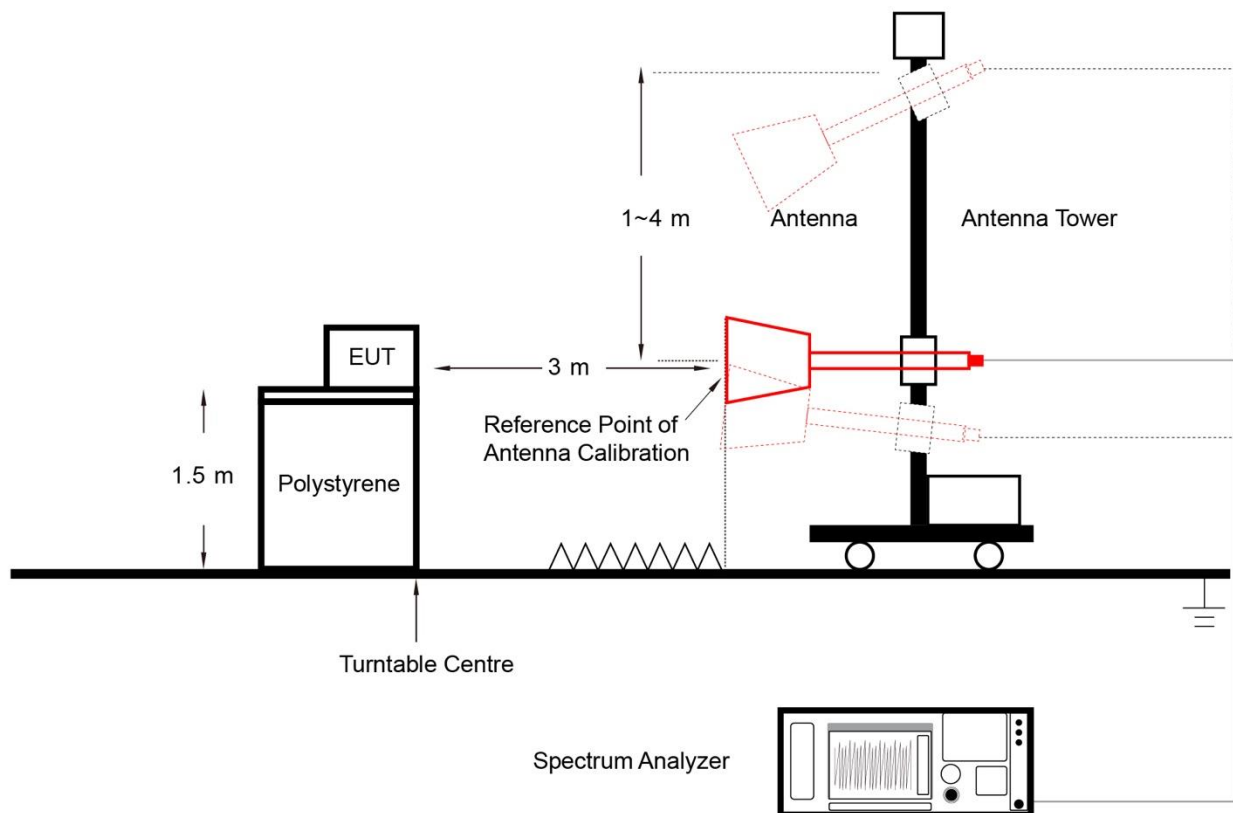
Average Measurements above 1GHz (Method VB)

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

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

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

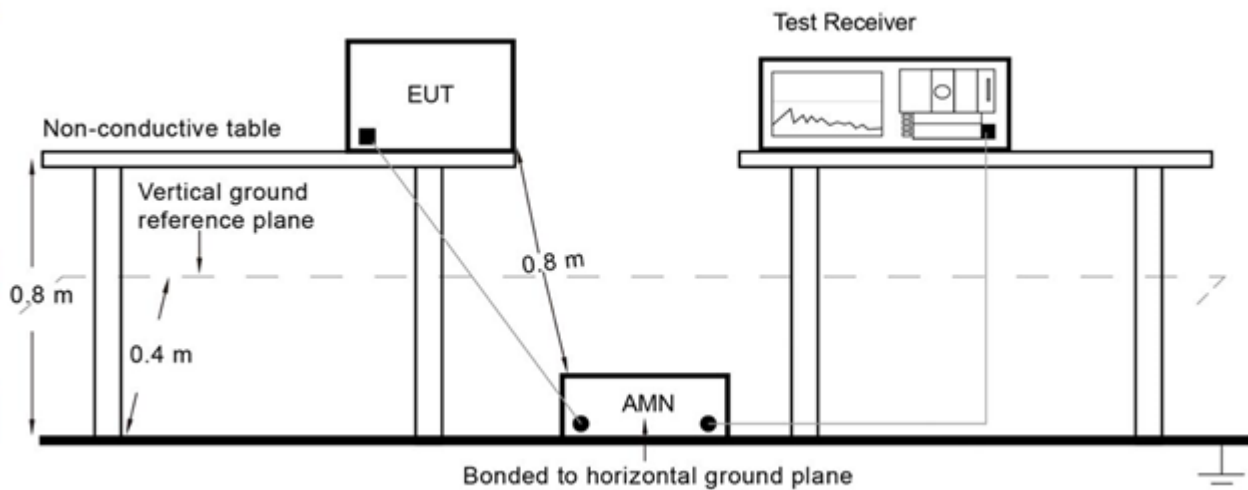
6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
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 0.15MHz to 0.5MHz.

6.9.2. Test Setup



6.9.3. Test Result

Refer to Appendix A.9.

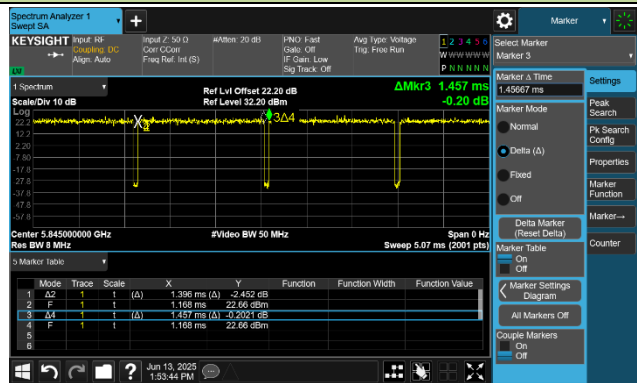
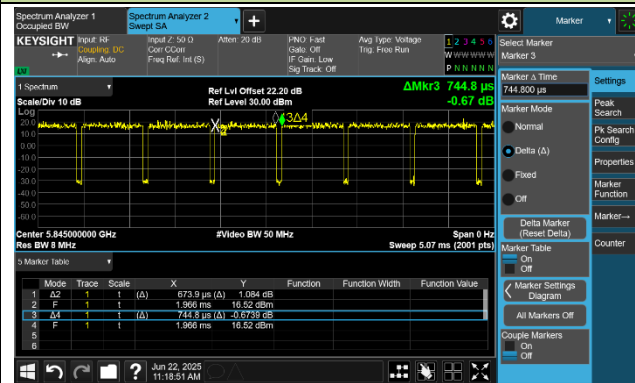
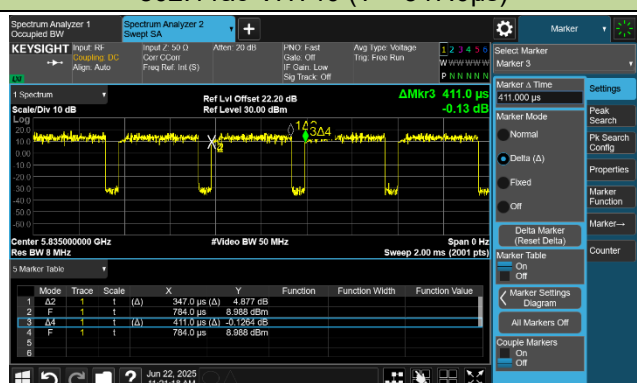
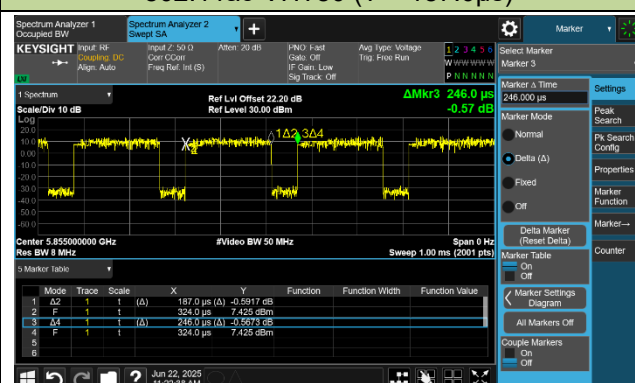
Appendix A – Test Result

A.1 Duty Cycle Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-13 ~ 2025-06-22		

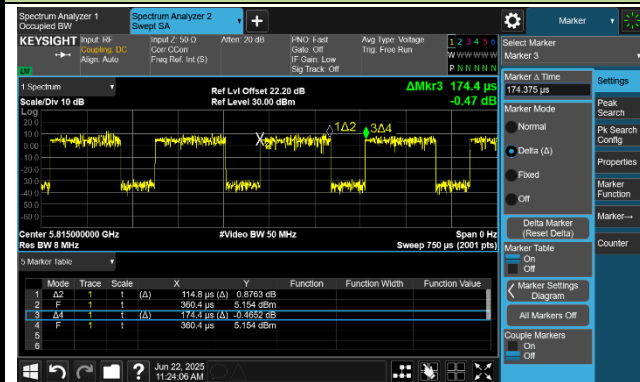
Test Mode	Duty Cycle
802.11a	95.81%
802.11ac-VHT20	90.48%
802.11ac-VHT40	84.43%
802.11ac-VHT80	76.02%
802.11ac-VHT160	65.83%
802.11ax-HE20	88.67%
802.11ax-HE40	83.57%
802.11ax-HE80	73.77%
802.11ax-HE160	65.98%

Duty Cycle (T = Transmission Duration)

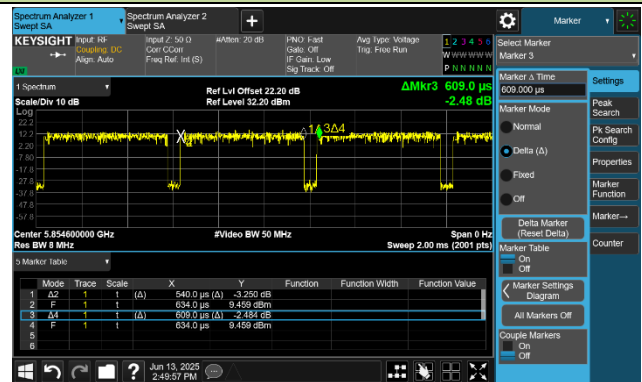
802.11a (T = 1.396ms) 	802.11ac-VHT20 (T = 673.9µs) 
802.11ac-VHT40 (T = 347.0µs) 	802.11ac-VHT80 (T = 187.0µs) 

Duty Cycle (T = Transmission Duration)

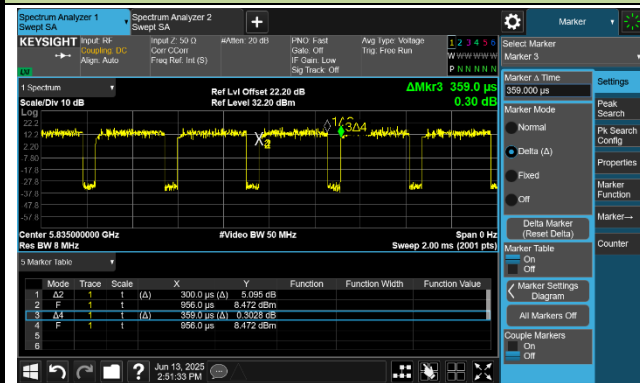
802.11ac-VHT160 (T = 114.8μs)



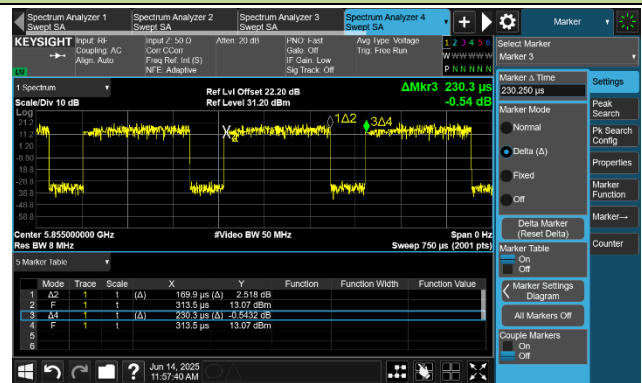
802.11ax-HE20 (T = 540.0μs)



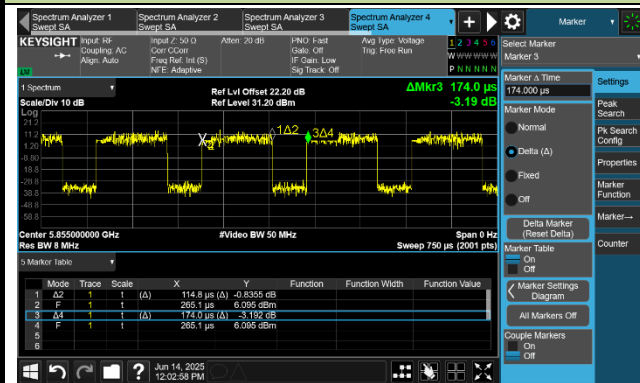
802.11ax-HE40 (T = 300.0μs)



802.11ax-HE80 (T = 169.9μs)



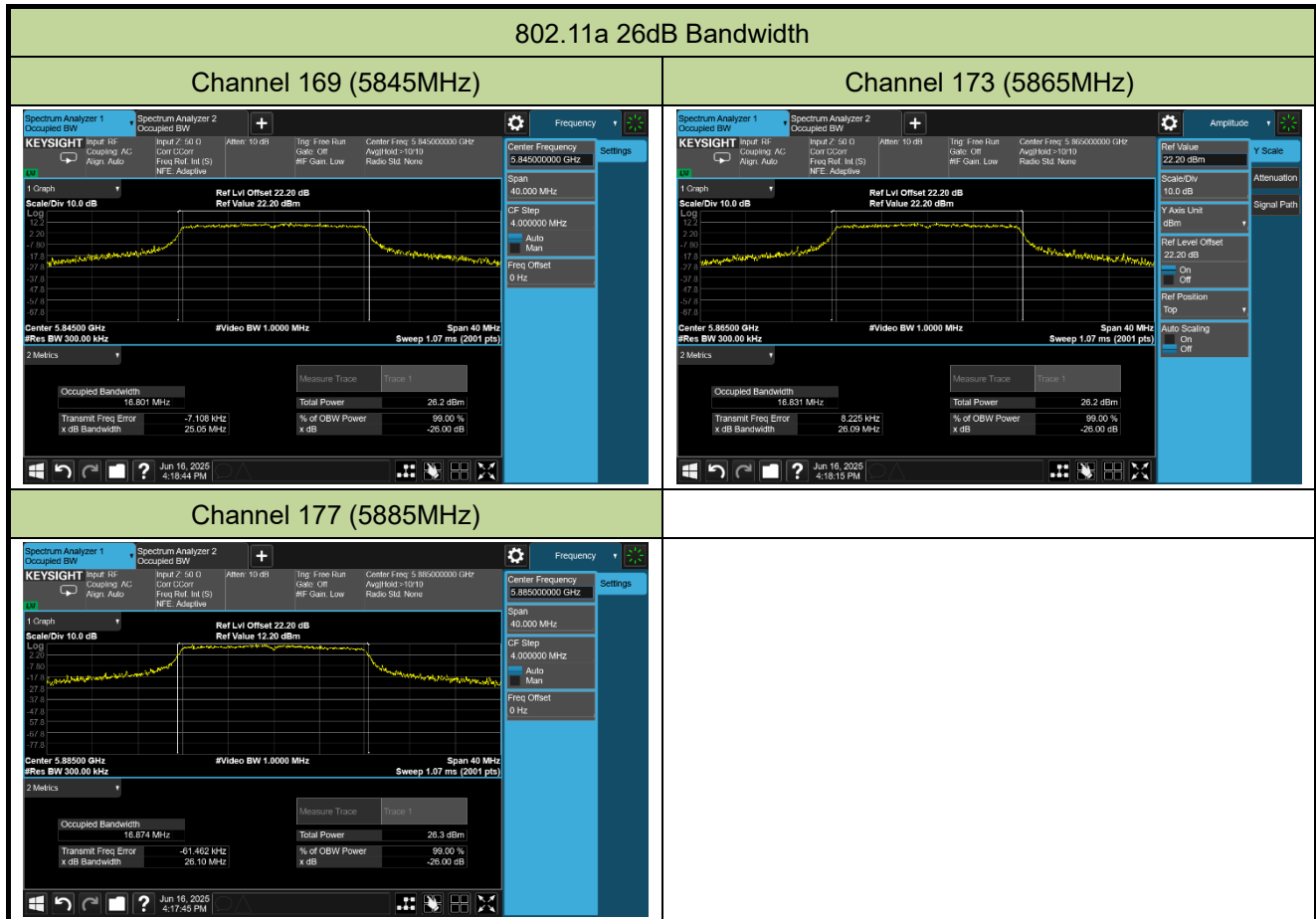
802.11ax-HE160 (T = 114.8μs)



A.2 26dB & 99% Bandwidth Test Result

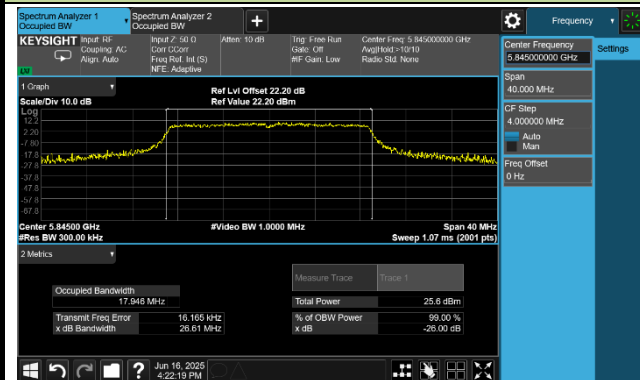
Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-16 ~ 2025-07-01		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
11a	6Mbps	169	5845	16.801	25.05
11a	6Mbps	173	5865	16.831	26.09
11a	6Mbps	177	5885	16.874	26.10
11ac-VHT20	MCS0	169	5845	17.946	26.61
11ac-VHT20	MCS0	173	5865	17.933	27.51
11ac-VHT20	MCS0	177	5885	17.936	25.48
11ac-VHT40	MCS0	167	5835	36.520	63.26
11ac-VHT40	MCS0	175	5875	36.254	62.65
11ac-VHT80	MCS0	171	5855	75.475	102.30
11ac-VHT160	MCS0	163	5815	75.475	102.30
11ax-HE20	MCS0	169	5845	19.052	28.11
11ax-HE20	MCS0	173	5865	19.085	25.76
11ax-HE20	MCS0	177	5885	19.068	22.68
11ax-HE40	MCS0	167	5835	37.792	47.90
11ax-HE40	MCS0	175	5875	37.528	39.78
11ax-HE80	MCS0	171	5855	77.020	89.27
11ax-HE160	MCS0	163	5815	156.12	183.60

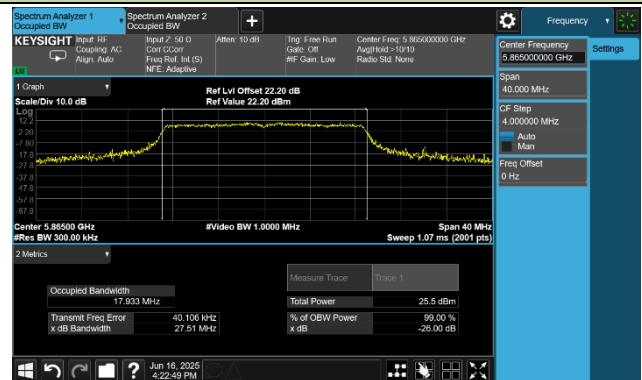


802.11ac-VHT20 26dB Bandwidth

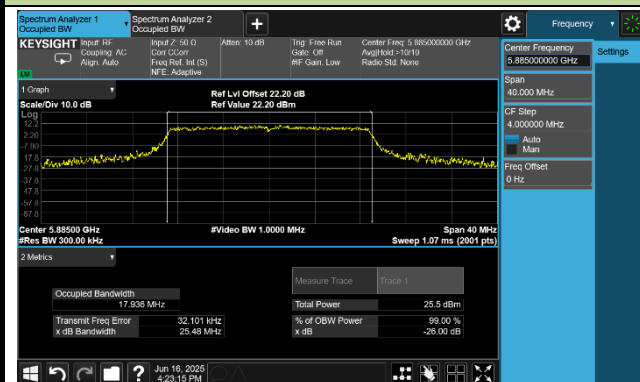
Channel 169 (5845MHz)



Channel 173 (5865MHz)

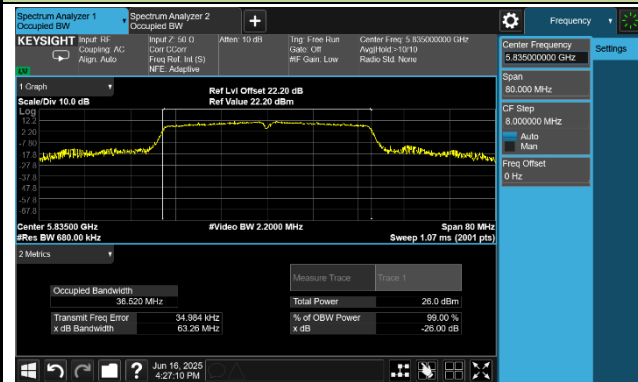


Channel 177 (5885MHz)

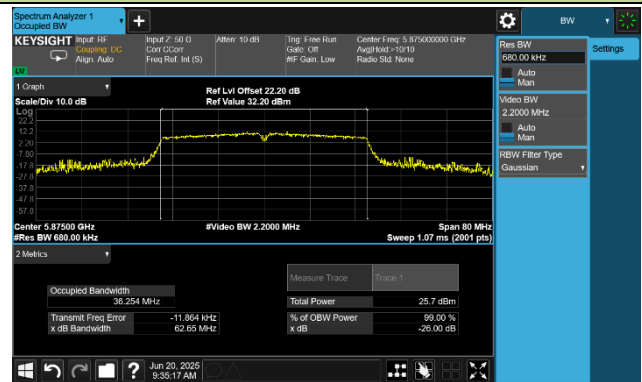


802.11ac-VHT40 26dB Bandwidth

Channel 167 (5835MHz)

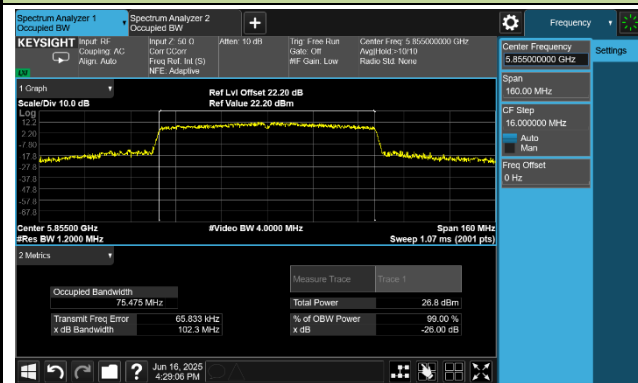


Channel 175(5875MHz)



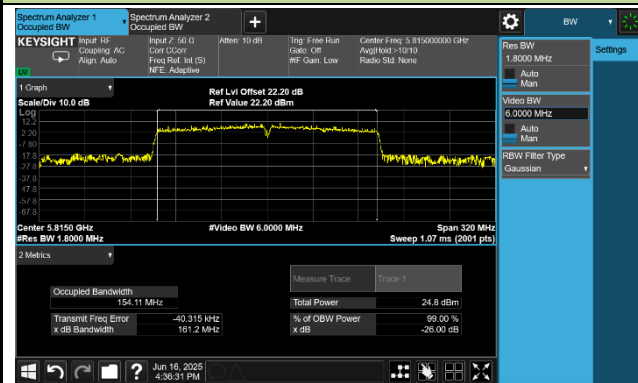
802.11ac-VHT80 26dB Bandwidth

Channel 171 (5855MHz)



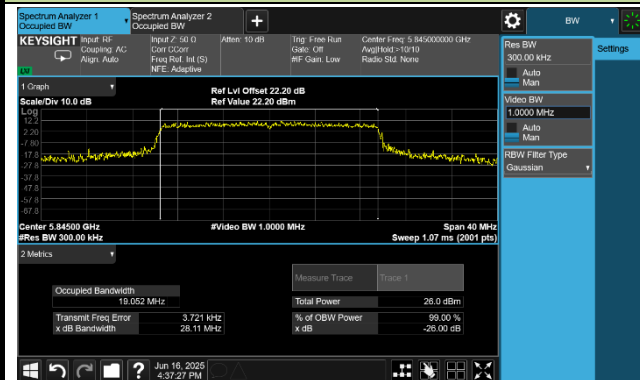
802.11ac-VHT160 26dB Bandwidth

Channel 163 (5815MHz)

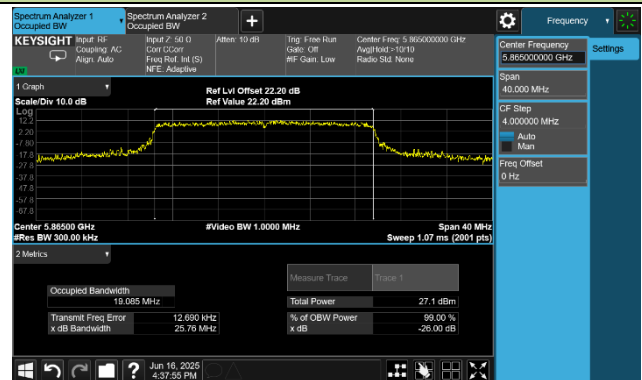


802.11ax-HE20 26dB Bandwidth

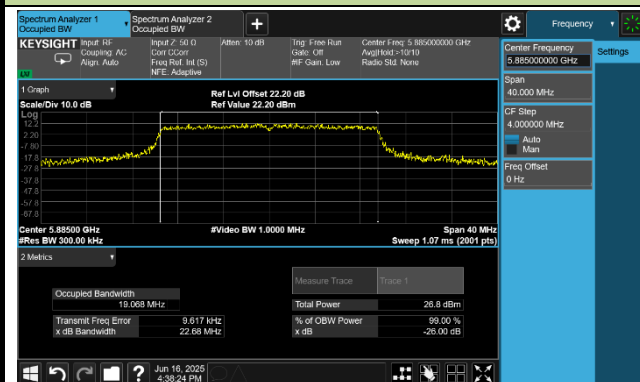
Channel 169 (5845MHz)



Channel 173 (5865MHz)

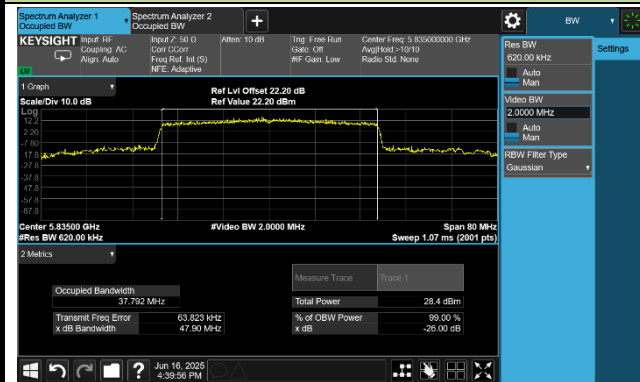


Channel 177 (5885MHz)

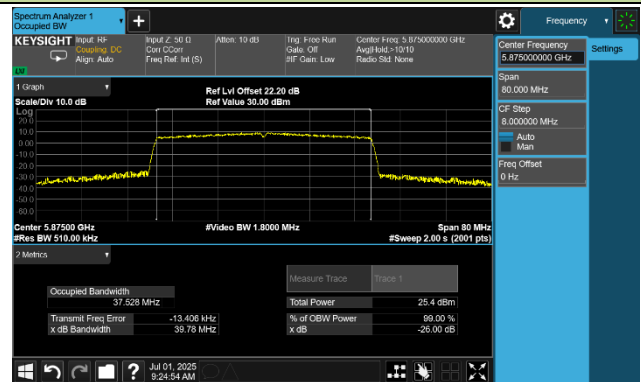


802.11ax-HE40 26dB Bandwidth

Channel 167 (5835MHz)

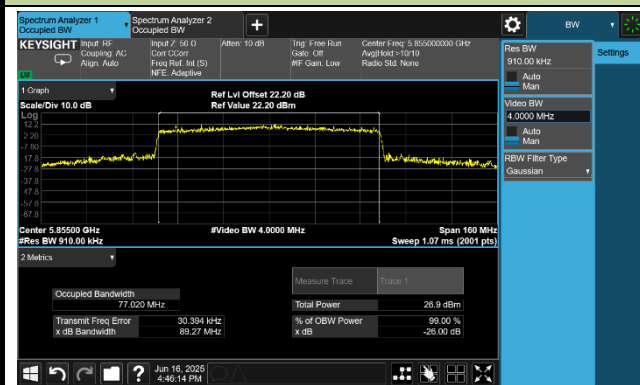


Channel 175(5875MHz)



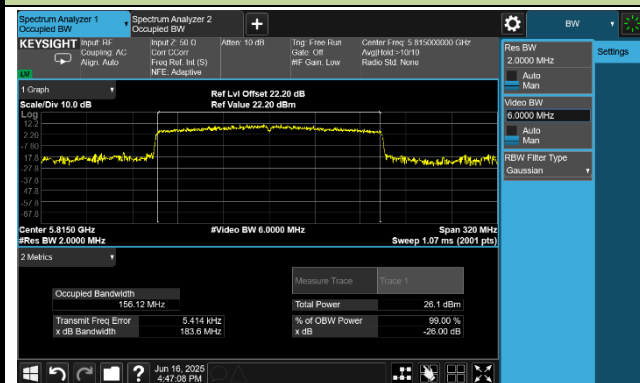
802.11ax-HE80 26dB Bandwidth

Channel 171 (5855MHz)



802.11ax-HE160 26dB Bandwidth

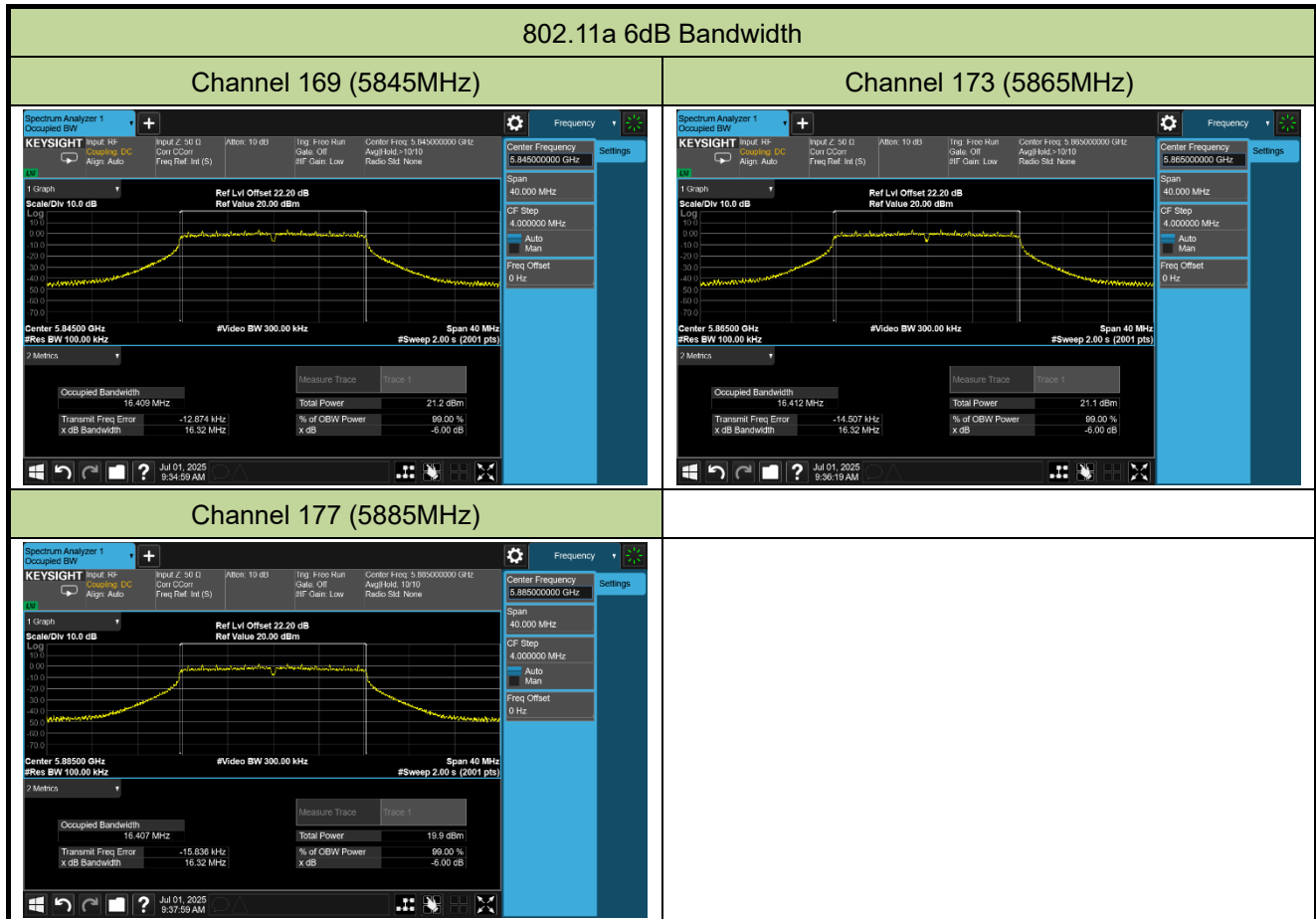
Channel 163 (5815MHz)



A.3 6dB Bandwidth Test Result

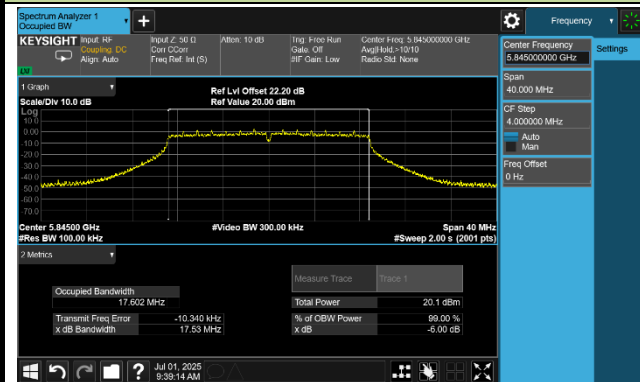
Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-07-01		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11a	6Mbps	169	5845	16.32	≥ 0.5
11a	6Mbps	173	5865	16.32	≥ 0.5
11a	6Mbps	177	5885	16.32	≥ 0.5
11ac-VHT20	MCS0	169	5845	17.53	≥ 0.5
11ac-VHT20	MCS0	173	5865	17.54	≥ 0.5
11ac-VHT20	MCS0	177	5885	17.53	≥ 0.5
11ac-VHT40	MCS0	167	5835	35.15	≥ 0.5
11ac-VHT40	MCS0	175	5875	35.15	≥ 0.5
11ac-VHT80	MCS0	171	5855	75.16	≥ 0.5
11ac-VHT80	MCS0	163	5815	155.20	≥ 0.5
11ax-HE20	MCS0	169	5845	18.35	≥ 0.5
11ax-HE20	MCS0	173	5865	18.15	≥ 0.5
11ax-HE20	MCS0	177	5885	18.03	≥ 0.5
11ax-HE40	MCS0	167	5835	32.31	≥ 0.5
11ax-HE40	MCS0	175	5875	35.05	≥ 0.5
11ax-HE80	MCS0	163	5815	73.94	≥ 0.5

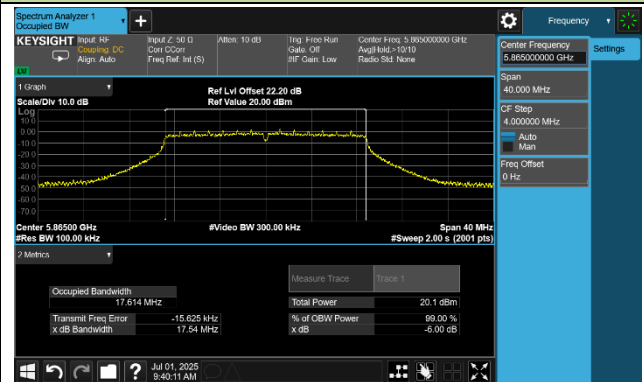


802.11ac-VHT20 6dB Bandwidth

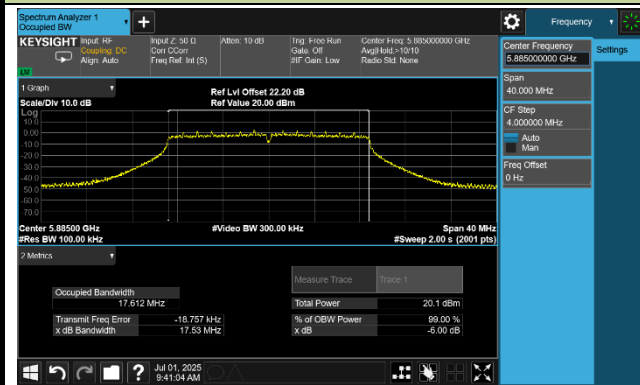
Channel 169 (5845MHz)



Channel 173 (5865MHz)

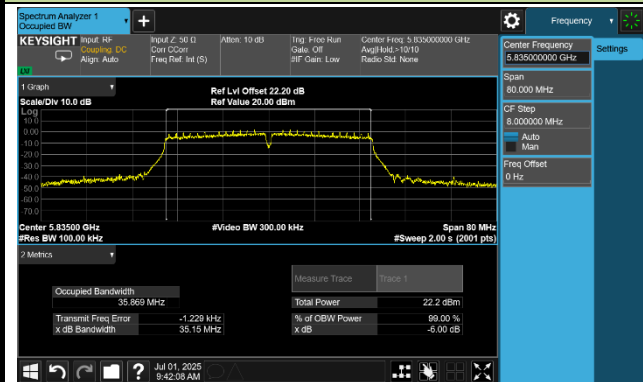


Channel 177 (5885MHz)

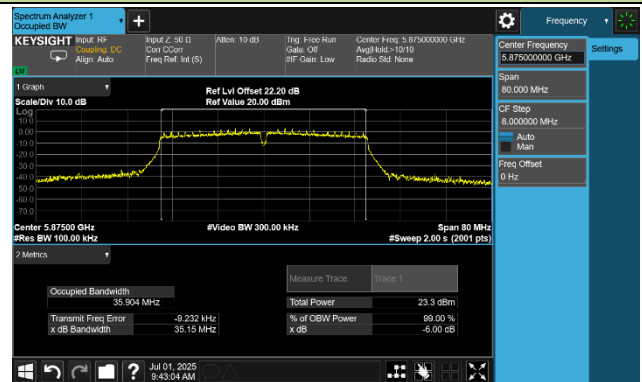


802.11ac-VHT40 6dB Bandwidth

Channel 167 (5835MHz)

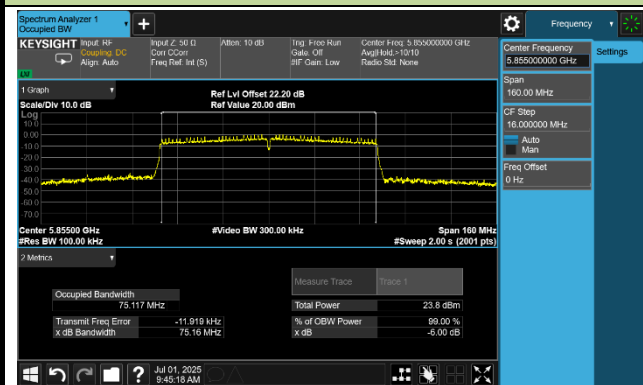


Channel 175(5875MHz)



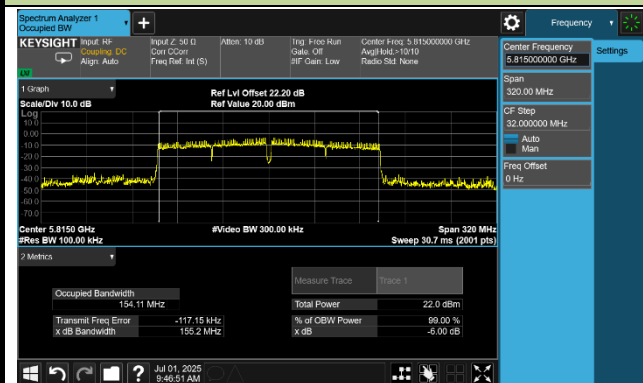
802.11ac-VHT80 6dB Bandwidth

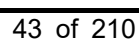
Channel 171 (5855MHz)



802.11ac-VHT160 6dB Bandwidth

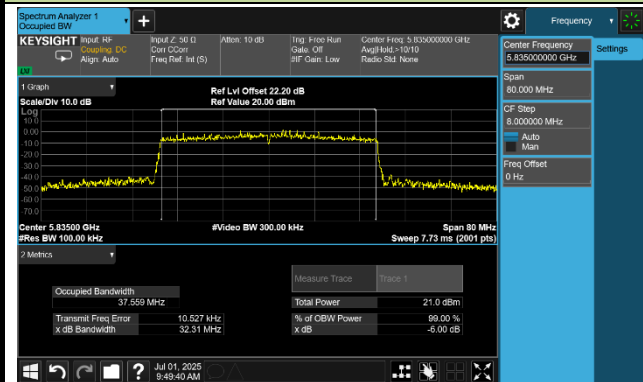
Channel 163 (5815MHz)



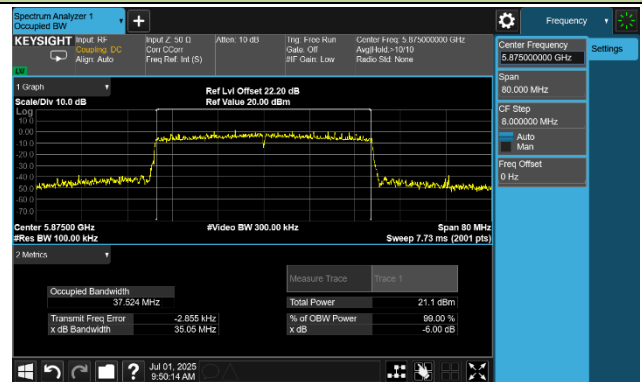


802.11ax-HE40 6dB Bandwidth

Channel 167 (5835MHz)

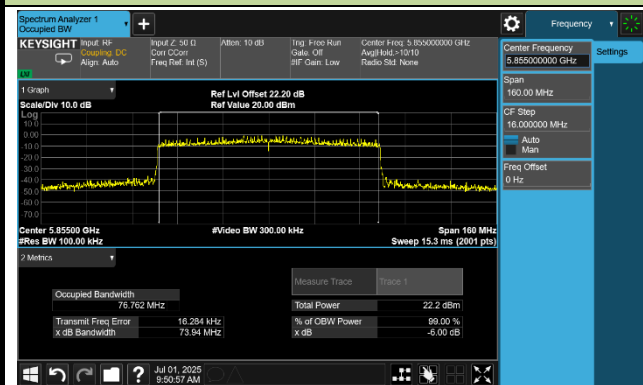


Channel 175(5875MHz)



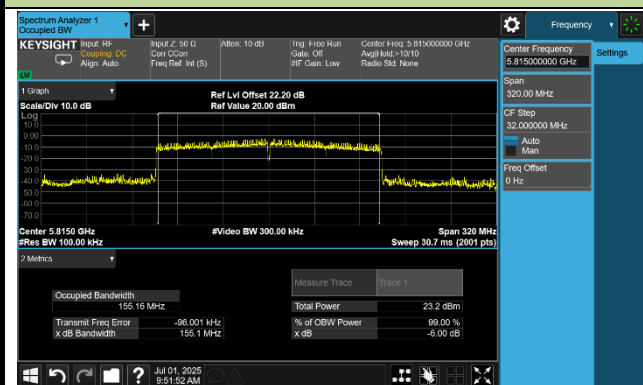
802.11ax-HE80 6dB Bandwidth

Channel 171 (5855MHz)



802.11ax-HE160 6dB Bandwidth

Channel 163 (5815MHz)



A.4 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	SISO Mode – Ant 0

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
11a	6Mbps	169	5845	13.81	8.00	21.81	≤ 36.00
11a	6Mbps	173	5865	14.05	8.00	22.05	≤ 36.00
11a	6Mbps	177	5885	13.11	8.00	21.11	≤ 36.00

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	SISO Mode – Ant 1

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
11a	6Mbps	169	5845	15.32	8.00	23.32	≤ 36.00
11a	6Mbps	173	5865	17.25	8.00	25.25	≤ 36.00
11a	6Mbps	177	5885	18.30	8.00	26.30	≤ 36.00

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	SISO Mode – Ant 2

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
11a	6Mbps	169	5845	20.16	8.00	28.16	≤ 36.00
11a	6Mbps	173	5865	19.56	8.00	27.56	≤ 36.00
11a	6Mbps	177	5885	19.91	8.00	27.91	≤ 36.00

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	MIMO Mode – Ant 0 & Ant 1

Test Mode	Data Rate MCS	Channel No.	Freq. (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	12.75	12.44	15.61	8.00	23.61	≤ 36.00
11ac-VHT20	MCS0	173	5865	13.78	13.41	16.61	8.00	24.61	≤ 36.00
11ac-VHT20	MCS0	177	5885	13.90	13.49	16.71	8.00	24.71	≤ 36.00
11ac-VHT40	MCS0	167	5835	14.79	14.49	17.65	8.00	25.65	≤ 36.00
11ac-VHT40	MCS0	175	5875	15.57	15.41	18.50	8.00	26.50	≤ 36.00
11ac-VHT80	MCS0	171	5855	15.61	15.43	18.53	8.00	26.53	≤ 36.00
11ac-VHT160	MCS0	163	5815	13.81	13.55	16.69	8.00	24.69	≤ 36.00
11ax-HE20	MCS0	169	5845	13.26	12.61	15.96	8.00	23.96	≤ 36.00
11ax-HE20	MCS0	173	5865	14.11	13.68	16.91	8.00	24.91	≤ 36.00
11ax-HE20	MCS0	177	5885	14.18	13.66	16.94	8.00	24.94	≤ 36.00
11ax-HE40	MCS0	167	5835	15.03	14.66	17.86	8.00	25.86	≤ 36.00
11ax-HE40	MCS0	175	5875	15.11	14.47	17.81	8.00	25.81	≤ 36.00
11ax-HE80	MCS0	171	5855	14.83	14.31	17.59	8.00	25.59	≤ 36.00
11ax-HE160	MCS0	163	5815	15.27	14.83	18.07	8.00	26.07	≤ 36.00

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

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

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	MIMO Mode – Ant 0 & Ant 2

Test Mode	Data Rate MCS	Channel No.	Freq. (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	12.75	13.59	16.20	8.00	24.20	≤ 36.00
11ac-VHT20	MCS0	173	5865	13.78	14.42	17.12	8.00	25.12	≤ 36.00
11ac-VHT20	MCS0	177	5885	13.90	14.54	17.24	8.00	25.24	≤ 36.00
11ac-VHT40	MCS0	167	5835	14.79	15.42	18.13	8.00	26.13	≤ 36.00
11ac-VHT40	MCS0	175	5875	15.57	16.37	19.00	8.00	27.00	≤ 36.00
11ac-VHT80	MCS0	171	5855	15.61	16.38	19.02	8.00	27.02	≤ 36.00
11ac-VHT160	MCS0	163	5815	13.81	14.14	16.99	8.00	24.99	≤ 36.00
11ax-HE20	MCS0	169	5845	13.26	13.72	16.51	8.00	24.51	≤ 36.00
11ax-HE20	MCS0	173	5865	14.11	14.76	17.46	8.00	25.46	≤ 36.00
11ax-HE20	MCS0	177	5885	14.18	14.73	17.47	8.00	25.47	≤ 36.00
11ax-HE40	MCS0	167	5835	15.03	15.57	18.32	8.00	26.32	≤ 36.00
11ax-HE40	MCS0	175	5875	15.11	15.49	18.31	8.00	26.31	≤ 36.00
11ax-HE80	MCS0	171	5855	14.83	16.55	18.78	8.00	26.78	≤ 36.00
11ax-HE160	MCS0	163	5815	15.27	15.28	18.29	8.00	26.29	≤ 36.00

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

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

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	MIMO Mode – Ant 1 & Ant 2

Test Mode	Data Rate MCS	Channel No.	Freq. (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	12.44	13.59	15.61	8.00	24.06	≤ 36.00
11ac-VHT20	MCS0	173	5865	13.41	14.42	16.61	8.00	24.95	≤ 36.00
11ac-VHT20	MCS0	177	5885	13.49	14.54	16.71	8.00	25.06	≤ 36.00
11ac-VHT40	MCS0	167	5835	14.49	15.42	17.65	8.00	25.99	≤ 36.00
11ac-VHT40	MCS0	175	5875	15.41	16.37	18.50	8.00	26.93	≤ 36.00
11ac-VHT80	MCS0	171	5855	15.43	16.38	18.53	8.00	26.94	≤ 36.00
11ac-VHT160	MCS0	163	5815	13.55	14.14	16.69	8.00	24.87	≤ 36.00
11ax-HE20	MCS0	169	5845	12.61	13.72	15.96	8.00	24.21	≤ 36.00
11ax-HE20	MCS0	173	5865	13.68	14.76	16.91	8.00	25.26	≤ 36.00
11ax-HE20	MCS0	177	5885	13.66	14.73	16.94	8.00	25.24	≤ 36.00
11ax-HE40	MCS0	167	5835	14.66	15.57	17.86	8.00	26.15	≤ 36.00
11ax-HE40	MCS0	175	5875	14.47	15.49	17.81	8.00	26.02	≤ 36.00
11ax-HE80	MCS0	171	5855	14.31	16.55	17.59	8.00	26.58	≤ 36.00
11ax-HE160	MCS0	163	5815	14.83	15.28	18.07	8.00	26.07	≤ 36.00

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

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

A.5 Power Spectral Density Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	SISO Mode – Ant 0

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	Ant Gain (dBi)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
11a	6Mbps	169	5845	3.510	95.81	3.696	8.00	11.696	≤ 20.00
11a	6Mbps	173	5865	3.110	95.81	3.296	8.00	11.296	≤ 20.00
11a	6Mbps	177	5885	2.171	95.81	2.357	8.00	10.357	≤ 20.00

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	SISO Mode – Ant 1

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	Ant Gain (dBi)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
11a	6Mbps	169	5845	4.408	95.81	4.594	8.00	12.594	≤ 20.00
11a	6Mbps	173	5865	6.521	95.81	6.707	8.00	14.707	≤ 20.00
11a	6Mbps	177	5885	7.137	95.81	7.323	8.00	15.323	≤ 20.00

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	SISO Mode – Ant 2

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	Ant Gain (dBi)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
11a	6Mbps	169	5845	10.087	95.81	10.273	8.00	18.273	≤ 20.00
11a	6Mbps	173	5865	10.038	95.81	10.224	8.00	18.224	≤ 20.00
11a	6Mbps	177	5885	9.819	95.81	10.005	8.00	18.005	≤ 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	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	MIMO Mode – Ant 0 & Ant 1

Test Mode	Data Rate/ MCS	Channel No.	Freq. (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	1.621	1.477	90.48	4.994	16.004	≤ 20.00
11ac-VHT20	MCS0	173	5865	2.613	2.149	90.48	5.832	16.842	≤ 20.00
11ac-VHT20	MCS0	177	5885	2.380	2.329	90.48	5.799	16.809	≤ 20.00
11ac-VHT40	MCS0	167	5835	0.737	0.821	84.43	4.525	15.535	≤ 20.00
11ac-VHT40	MCS0	175	5875	2.139	1.700	84.43	5.670	16.680	≤ 20.00
11ac-VHT80	MCS0	171	5855	-1.303	-1.460	76.02	2.820	13.830	≤ 20.00
11ac-VHT160	MCS0	163	5815	-5.919	-5.763	65.83	-1.014	9.996	≤ 20.00
11ax-HE20	MCS0	169	5845	1.577	1.121	88.67	4.888	15.898	≤ 20.00
11ax-HE20	MCS0	173	5865	2.584	1.961	88.67	5.816	16.826	≤ 20.00
11ax-HE20	MCS0	177	5885	2.293	1.780	88.67	5.577	16.587	≤ 20.00
11ax-HE40	MCS0	167	5835	0.875	0.384	83.57	4.426	15.436	≤ 20.00
11ax-HE40	MCS0	175	5875	1.161	0.678	83.57	4.716	15.726	≤ 20.00
11ax-HE80	MCS0	171	5855	-1.979	-2.748	73.77	1.985	12.995	≤ 20.00
11ax-HE160	MCS0	163	5815	-4.207	-5.689	65.98	-0.069	10.941	≤ 20.00

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

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=1MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	MIMO Mode – Ant 0 & Ant 2

Test Mode	Data Rate/ MCS	Channel No.	Freq. (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	1.621	2.324	90.48	5.431	16.441	≤ 20.00
11ac-VHT20	MCS0	173	5865	2.613	3.435	90.48	6.488	17.498	≤ 20.00
11ac-VHT20	MCS0	177	5885	2.380	2.921	90.48	6.104	17.114	≤ 20.00
11ac-VHT40	MCS0	167	5835	0.737	1.255	84.43	4.749	15.759	≤ 20.00
11ac-VHT40	MCS0	175	5875	2.139	2.576	84.43	6.108	17.118	≤ 20.00
11ac-VHT80	MCS0	171	5855	-1.303	-0.396	76.02	3.375	14.385	≤ 20.00
11ac-VHT160	MCS0	163	5815	-5.919	-5.566	65.83	-0.913	10.097	≤ 20.00
11ax-HE20	MCS0	169	5845	1.577	2.204	88.67	5.434	16.444	≤ 20.00
11ax-HE20	MCS0	173	5865	2.584	3.186	88.67	6.428	17.438	≤ 20.00
11ax-HE20	MCS0	177	5885	2.293	3.267	88.67	6.340	17.350	≤ 20.00
11ax-HE40	MCS0	167	5835	0.875	1.595	83.57	5.040	16.050	≤ 20.00
11ax-HE40	MCS0	175	5875	1.161	1.439	83.57	5.092	16.102	≤ 20.00
11ax-HE80	MCS0	171	5855	-1.979	-0.598	73.77	3.098	14.108	≤ 20.00
11ax-HE160	MCS0	163	5815	-4.207	-4.642	65.98	0.397	11.407	≤ 20.00

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

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=1MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-06-24	Test Mode	MIMO Mode – Ant 1 & Ant 2

Test Mode	Data Rate/ MCS	Channel No.	Freq. (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	1.477	2.324	90.48	5.366	16.376	≤ 20.00
11ac-VHT20	MCS0	173	5865	2.149	3.435	90.48	6.284	17.294	≤ 20.00
11ac-VHT20	MCS0	177	5885	2.329	2.921	90.48	6.080	17.090	≤ 20.00
11ac-VHT40	MCS0	167	5835	0.821	1.255	84.43	4.789	15.799	≤ 20.00
11ac-VHT40	MCS0	175	5875	1.700	2.576	84.43	5.905	16.915	≤ 20.00
11ac-VHT80	MCS0	171	5855	-1.460	-0.396	76.02	3.306	14.316	≤ 20.00
11ac-VHT160	MCS0	163	5815	-5.763	-5.566	65.83	-0.837	10.173	≤ 20.00
11ax-HE20	MCS0	169	5845	1.121	2.204	88.67	5.229	16.239	≤ 20.00
11ax-HE20	MCS0	173	5865	1.961	3.186	88.67	6.149	17.159	≤ 20.00
11ax-HE20	MCS0	177	5885	1.780	3.267	88.67	6.119	17.129	≤ 20.00
11ax-HE40	MCS0	167	5835	0.384	1.595	83.57	4.821	15.831	≤ 20.00
11ax-HE40	MCS0	175	5875	0.678	1.439	83.57	4.865	15.875	≤ 20.00
11ax-HE80	MCS0	171	5855	-2.748	-0.598	73.77	2.790	13.800	≤ 20.00
11ax-HE160	MCS0	163	5815	-5.689	-4.642	65.98	-0.318	10.692	≤ 20.00

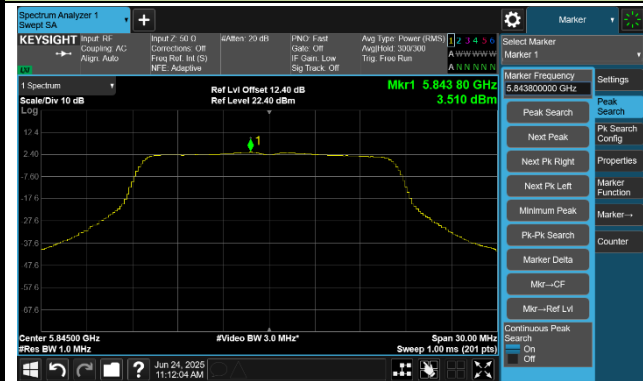
Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{ 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} \} + 10 \cdot \log (1/\text{Duty cycle})$.

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=1MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

802.11a Power Spectral Density - Ant 0

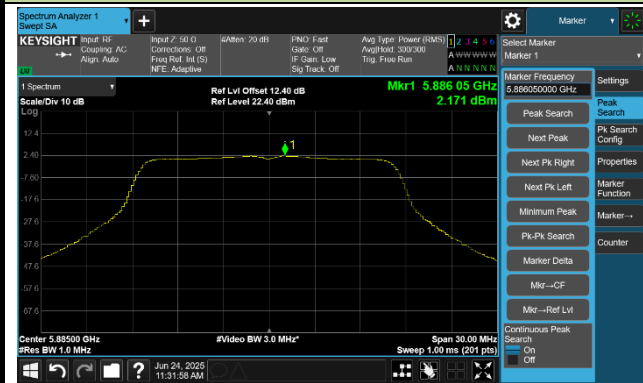
Channel 169 (5845MHz)



Channel 173 (5865MHz)



Channel 177 (5885MHz)



802.11ac-VHT20 Power Spectral Density - Ant 0

Channel 169 (5845MHz)



Channel 173 (5865MHz)

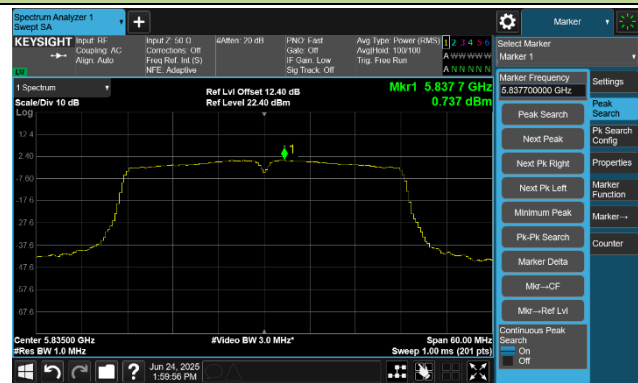


Channel 177 (5885MHz)



802.11ac-VHT40 Power Spectral Density - Ant 0

Channel 167 (5835MHz)

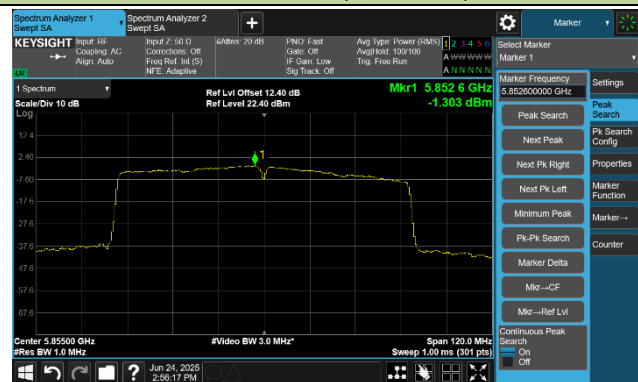


Channel 175 (5875MHz)



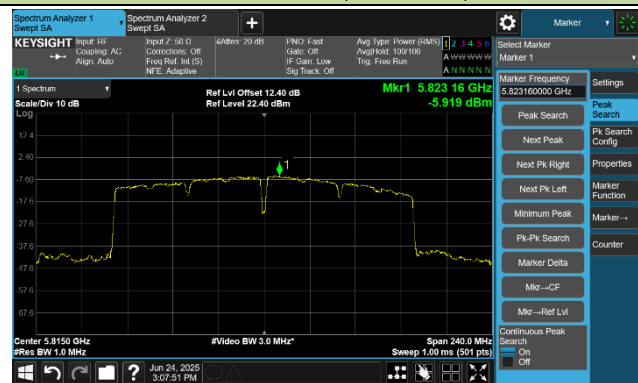
802.11ac-VHT80 Power Spectral Density - Ant 0

Channel 171 (5855MHz)



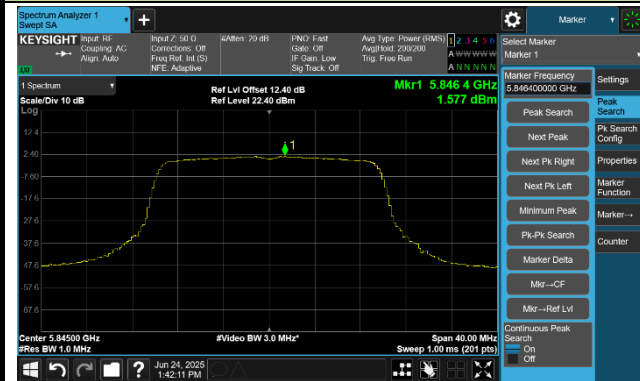
802.11ac-VHT160 Power Spectral Density - Ant 0

Channel 163 (5815MHz)



802.11ax-HE20 Power Spectral Density - Ant 0

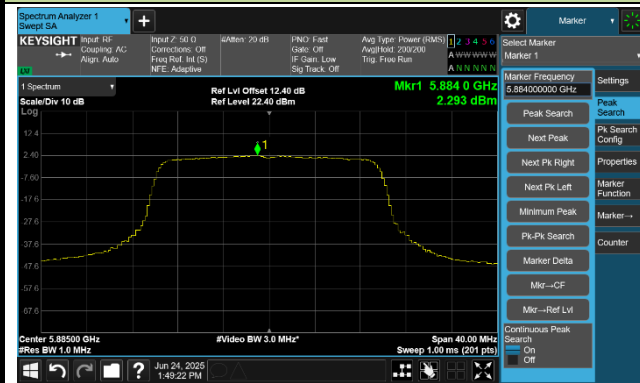
Channel 169 (5845MHz)



Channel 173 (5865MHz)



Channel 177 (5885MHz)



802.11 ax-HE40 Power Spectral Density - Ant 0

Channel 167 (5835MHz)

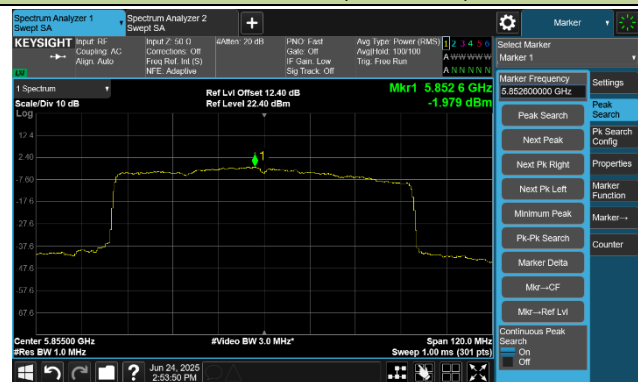


Channel 175 (5875MHz)



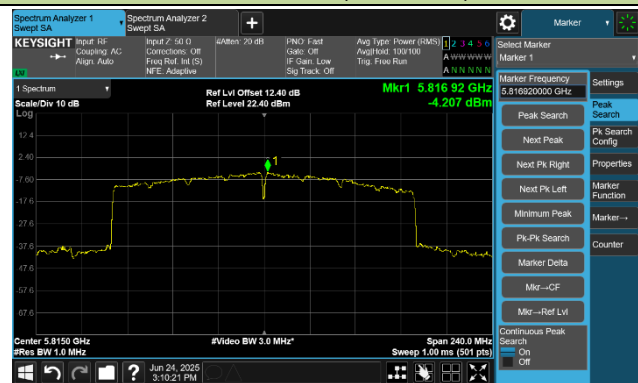
802.11 ax-HE80 Power Spectral Density - Ant 0

Channel 171 (5855MHz)



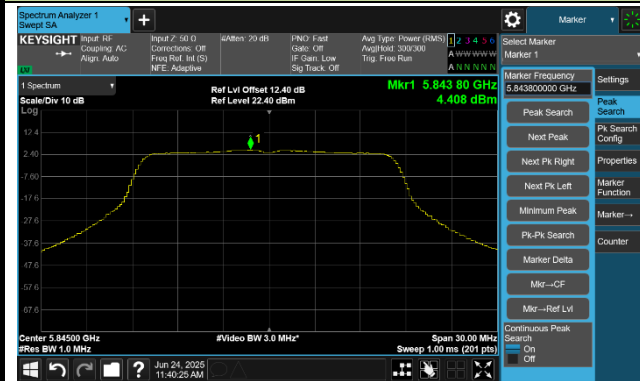
802.11 ax-HE160 Power Spectral Density - Ant 0

Channel 163 (5815MHz)



802.11a Power Spectral Density - Ant 1

Channel 169 (5845MHz)



Channel 173 (5865MHz)



Channel 177 (5885MHz)



802.11ac-VHT20 Power Spectral Density - Ant 1

Channel 169 (5845MHz)



Channel 173 (5865MHz)

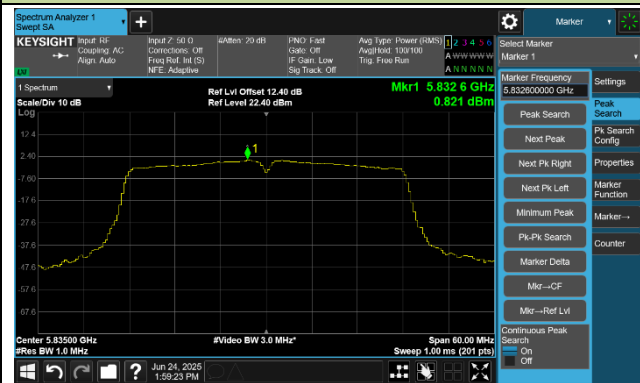


Channel 177 (5885MHz)



802.11ac-VHT40 Power Spectral Density - Ant 1

Channel 167 (5835MHz)

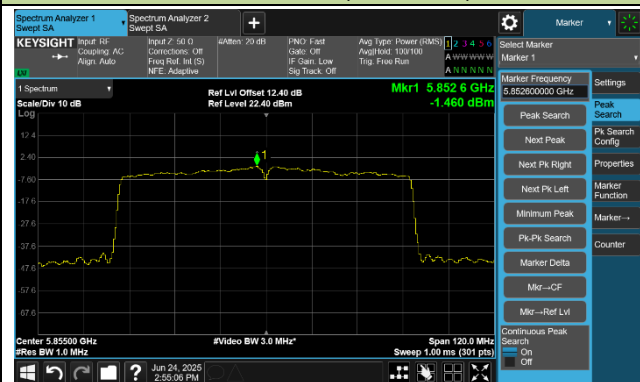


Channel 175 (5875MHz)



802.11ac-VHT80 Power Spectral Density - Ant 1

Channel 171 (5855MHz)



802.11ac-VHT160 Power Spectral Density - Ant 1

Channel 163 (5815MHz)

