



RF MEASUREMENT REPORT

FCC ID: 2A398-M63S

Applicant: Suzhou MobyData Smart System Co., Ltd.

Product: Mobile Computer

Model No.: M63S

Serial Model No.: M63, M63 Scorpio, M63S Scorpio, OA66, OA68, OA86, OA88, MB68, MB86, MB88, MB66, SA68, SA86, SA66, SA88

Brand Name: MOBYDATA

FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Rule Part(s): Part 15 Subpart E (Section 15.407)

Result: Complies

Received Date: 2025-08-25

Test Date: 2025-09-08 ~ 2025-10-22

Reviewed By:

Jame Yuan

Jame Yuan

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. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific 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
R25S1049088-U204	V01	Initial Report	2025-10-27	Valid

CONTENTS

Description	Page
1. General Information	6
1.1. Applicant	6
1.2. Manufacturer	6
1.3. Testing Facility	6
1.4. Product Information	7
1.5. Radio Specification under Test	8
1.6. Working Frequencies	8
1.7. Antenna Details	9
2. Test Configuration	10
2.1. Test Mode	10
2.2. Test System Connection Diagram	10
2.3. Test Software	10
2.4. Applied Standards	11
2.5. Test Environment Condition	11
3. Antenna Requirements	12
4. Measuring Instrument	13
5. Decision Rules and Measurement Uncertainty	14
5.1. Decision Rules	14
5.2. Measurement Uncertainty	14
6. Test Result	15
6.1. Summary	15
6.2. 26 dB Bandwidth Measurement	16
6.2.1. Test Limit	16
6.2.2. Test Procedure	16
6.2.3. Test Setting	16
6.2.4. Test Setup	16
6.2.5. Test Result	17
6.3. 6 dB Bandwidth Measurement	18
6.3.1. Test Limit	18
6.3.2. Test Procedure	18
6.3.3. Test Setting	18
6.3.4. Test Setup	18
6.3.5. Test Result	18
6.4. Output Power Measurement	19
6.4.1. Test Limit	19

6.4.2.	Test Procedure	19
6.4.3.	Test Setting	19
6.4.4.	Test Setup	19
6.4.5.	Test Result	19
6.5.	Transmit Power Control Measurement	20
6.5.1.	Test Limit	20
6.5.2.	Test Procedure	20
6.5.3.	Test Setting	20
6.5.4.	Test Setup	20
6.5.5.	Assessment Result	20
6.6.	Power Spectral Density Measurement	21
6.6.1.	Test Limit	21
6.6.2.	Test Procedure	21
6.6.3.	Test Setting	21
6.6.4.	Test Setup	22
6.6.5.	Test Result	22
6.7.	Frequency Stability Measurement	23
6.7.1.	Test Limit	23
6.7.2.	Test Procedure	23
6.7.3.	Test Setup	23
6.7.4.	Test Result	24
6.8.	Radiated Spurious Emissions Measurement	25
6.8.1.	Test Limit	25
6.8.2.	Test Procedure	25
6.8.3.	Test Setting	25
6.8.4.	Test Setup	27
6.8.5.	Test Result	28
6.9.	Radiated Restricted Band Edge Measurement	29
6.9.1.	Test Limit	29
6.9.2.	Test Procedure	31
6.9.3.	Test Setting	31
6.9.4.	Test Setup	32
6.9.5.	Test Result	32
6.10.	AC Conducted Emissions Measurement	33
6.10.1.	Test Limit	33
6.10.2.	Test Setup	33
6.10.3.	Test Result	33
Appendix A - Test Result		34
A.1	Duty Cycle Test Result	34

A.2	26 dB Bandwidth Test Result	35
A.3	6 dB Bandwidth Test Result	43
A.4	Output Power Test Result	46
A.5	Power Spectral Density Test Result	48
A.6	Frequency Stability Test Result	57
A.7	Radiated Spurious Emissions Test Result	58
A.8	Radiated Restricted Band Edge Test Result	96
A.9	AC Conducted Emissions Test Result	158
Appendix B - Test Setup Photograph		160
Appendix C - EUT Photograph		161

1. General Information

1.1. Applicant

Suzhou MobyData Smart System Co., Ltd.

3f, Building E, Yida Science Park, No.11 Jinpu Road, SIP, Suzhou, Jiangsu Province, China.

1.2. Manufacturer

Suzhou MobyData Smart System Co., Ltd.

3f, Building E, Yida Science Park, No.11 Jinpu Road, SIP, Suzhou, Jiangsu Province, China.

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	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	Mobile Computer
Model No.	M63S
Serial Model No.	M63, M63 Scorpio, M63S Scorpio, OA66, OA68, OA86, OA88, MB68, MB86, MB88, MB66, SA68, SA86, SA66, SA88
Serial No.	25C21I00010 (Conducted) 25C21I00001 (Radiated)
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	Dual mode
NFC Specification	13.56 MHz
Antenna Specification	Refer to clause 1.7
Operating Temperature	-20 ~ 50 °C
Power Type	By Rechargeable Li-ion Battery or AC/DC Adapter
Accessory(ies)	
Rechargeable Li-ion Battery	Model: M63 Typical Capacity: 5000 mAh Rated Capacity: 4850 mAh Rated Energy: 18.68 Wh Nominal Voltage: 3.85 V Limited Charge Voltage: 4.4 V
AC/DC Adapter	Model: HA1010SA-050 Input: 100-240 V ~, 0.5 A 50/60 Hz Output: 54.0 V = 2.4 A
Notes:	
- 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. - Differences between models: The RF specifications of the family models are identical. The difference is the sales area and the naming methods of customer needs, which also do not affect the RF and safety performance of the product.	

1.5. Radio Specification under Test

Frequency Range	UNII-1: 5150 ~ 5250 MHz UNII-2A: 5250 ~ 5350 MHz UNII-2C: 5470 ~ 5600 MHz UNII-3: 5725 ~ 5850 MHz
Type of Modulation	802.11a/n/ac: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.3 Mbps

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11n-HT40/ac-VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550 MHz
118	5590 MHz	151	5755 MHz	159	5795 MHz

802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
155	5775 MHz	--	--	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)
Wi-Fi Antennas		
PIFA	2400 ~ 2483.5	1.46
	5150 ~ 5250	2.94
	5250 ~ 5350	2.90
	5470 ~ 5600	2.38
	5725 ~ 5850	2.03
Note: All antenna information is provided by the manufacturer.		

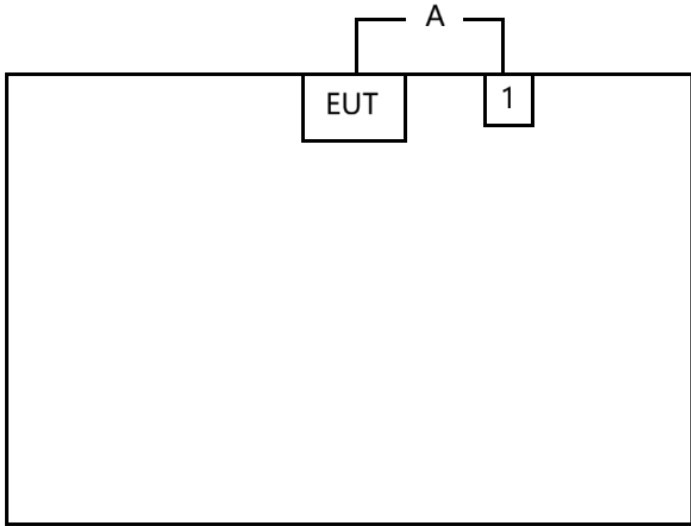
2. Test Configuration

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)
Note 1: 802.11n and 802.11ac have same modulation type and same power parameter, so we only show 802.11ac test data in report.
Note 2: All RF test requirements shall be executed at the worst data rate which declared by manufacturer.

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 conducted emissions testing.

Connection Diagram - Radiated Emission testing & AC Conducted Emissions			
			
Cable Type		Cable Description	Length
A	Power Cable	Non shielded	1.0 m
Product		Manufacturer	Model No.
1	Adapter	Haiyingte Power Technology Co., Ltd.	HA1010SA-050

2.3. Test Software

The test utility software used during testing was “adb”.

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 D02 v02r01
- 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

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2026-04-17	WZ-AC1
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2026-05-11	WZ-AC1
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2025-12-05	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2026-07-19	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2025-11-08	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	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
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2026-08-31	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2025-12-10	WZ-TR3
Shielding Room	HUAMING	WZ-SR6	MRTSUE06443	N/A	N/A	WZ-SR6
Thermohygrometer	testo	608-H1	MRTSUE06362	1 year	2026-01-23	WZ-SR6
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2026-05-17	WZ-SR6/WZ-TR3
USB Power Sensor	Keysight	U2021XA	MRTSUE06447	1 year	2026-06-17	WZ-SR6
Attenuator	MVE	MVE2213	MRTSUE11085	1 year	2026-06-02	WZ-SR6
Attenuator	MVE	MVE2213	MRTSUE11075	1 year	2026-06-02	WZ-SR6
RF Cable	UCwave	UCE500	MRTSUE07373	1 year	2026-07-20	WZ-SR6
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	2026-08-31	WZ-SR2

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	2.03C	RE Antenna & Turntable
Controller_MF 7802	1.02	RE Antenna & Turntable
Agilent Power Panel	V 3.9	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

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

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

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)(1)(iv), (2), (3)(i)	Maximum Conducted Output Power		Pass
15.407(h)(1)	Transmit Power Control		N/A
15.407(g)	Frequency Stability		Pass
15.407(a)(1)(iv), (2), (3)(i), (13)	Peak Power Spectral Density		Pass
15.407(h)(2)	Dynamic Frequency Selection (DFS)		Pass ^{Note 3}
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	Radiated	Pass
15.205, 15.209 15.407(b)(8), (9), (10)	General Field Strength (Restricted Bands and Radiated Emissions)		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.
3. DFS report refer to R25S1049088-U205.
4. "N/A" means that the test item is not applicable, and the detailed information refers to relevant section.

6.2. 26 dB Bandwidth Measurement

6.2.1. Test Limit

N/A

6.2.2. Test Procedure

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

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

6.2.3. Test Setting

26 dB Bandwidth

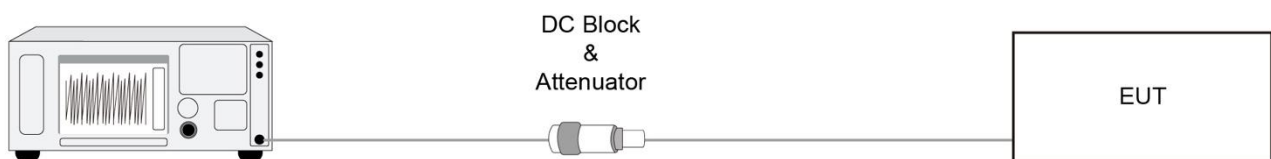
1. The analyzers' automatic bandwidth measurement capability was used to perform the 26 dB bandwidth
2. RBW = Approximately 1% of the emission bandwidth
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Measure the maximum width of the emission that is 26 dB down from the maximum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

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency
2. Span = 1.5 times to 5.0 times the OBW
3. RBW = 1% to 5% of the OBW
4. VBW $\geq 3 \times$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument

6.2.4. Test Setup

Spectrum Analyzer



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.

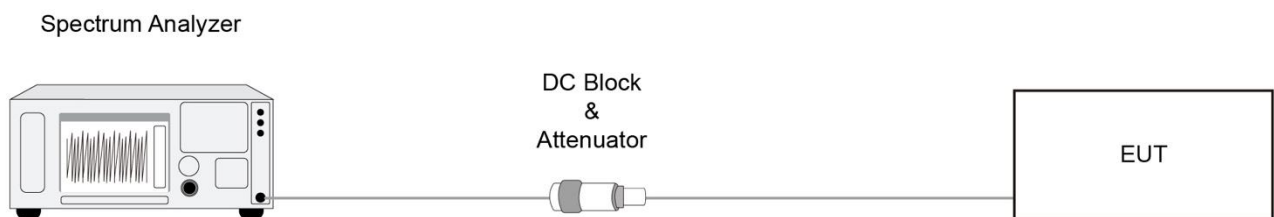
6.3.2. Test Procedure

KDB 789033 D02 v02r01 - Section II - 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 the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm).

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.4.2. Test Procedure

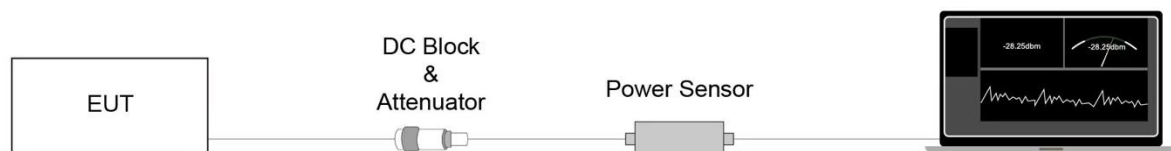
KDB 789033 D02 v02r01 - Section II - E.3.b (Method PM-G)

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. Transmit Power Control Measurement

6.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

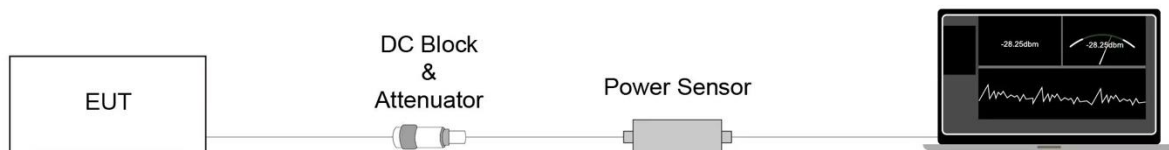
6.5.2. Test Procedure

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

6.5.3. Test Setting

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. The trace was averaged over 100 traces to obtain the final measured average power.

6.5.4. Test Setup



6.5.5. Assessment Result

This device does not support TPC mechanism, so this item is not applicable.

6.6. Power Spectral Density Measurement

6.6.1. Test Limit

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.6.2. Test Procedure

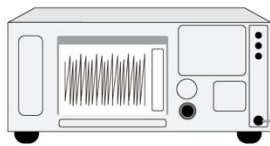
KDB 789033 D02 v02r01 - Section II - F

6.6.3. 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 (510 kHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz)
4. VBW $\geq 3 \times$ RBW
5. Number of sweep points $\geq 2 \times$ (Span / RBW)
6. Detector = Power averaging (RMS)
7. Sweep time = Auto
8. Trigger = Free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. If duty cycle < 98%, add $10 \times \log(1/x)$, 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 $10 \times \log(1/0.25) = 6$ dB if the duty cycle is 25 percent; If duty cycle $\geq 98\%$, no need to add $10 \times \log(1/x)$.

6.6.4. Test Setup

Spectrum Analyzer



DC Block
&
Attenuator



EUT



6.6.5. Test Result

Refer to Appendix A.5.

6.7. Frequency Stability Measurement

6.7.1. 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.

6.7.2. Test Procedure

Frequency Stability Under Temperature Variations:

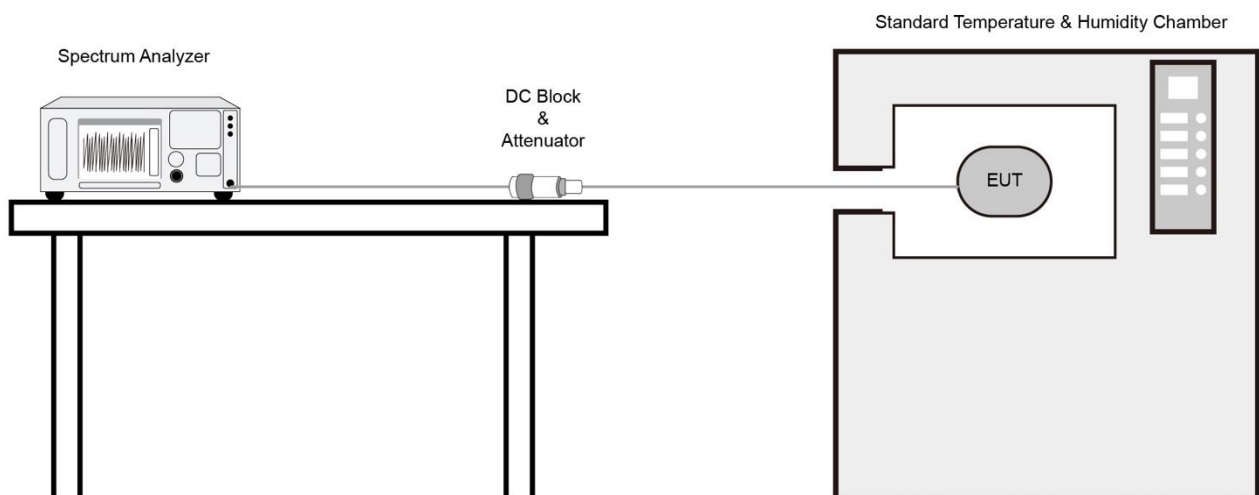
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain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

6.7.3. Test Setup



6.7.4. Test Result

Refer to Appendix A.6.

6.8. Radiated Spurious Emissions Measurement

6.8.1. 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

6.8.2. Test Procedure

KDB 789033 D02 v02r01 - Section II - G

6.8.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 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. $VBW \geq 3 \times RBW$
5. Detector = CISPR quasi-peak
6. Sweep time = Auto couple
7. Trace was allowed to stabilize

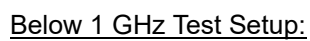
Peak Measurements above 1 GHz

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

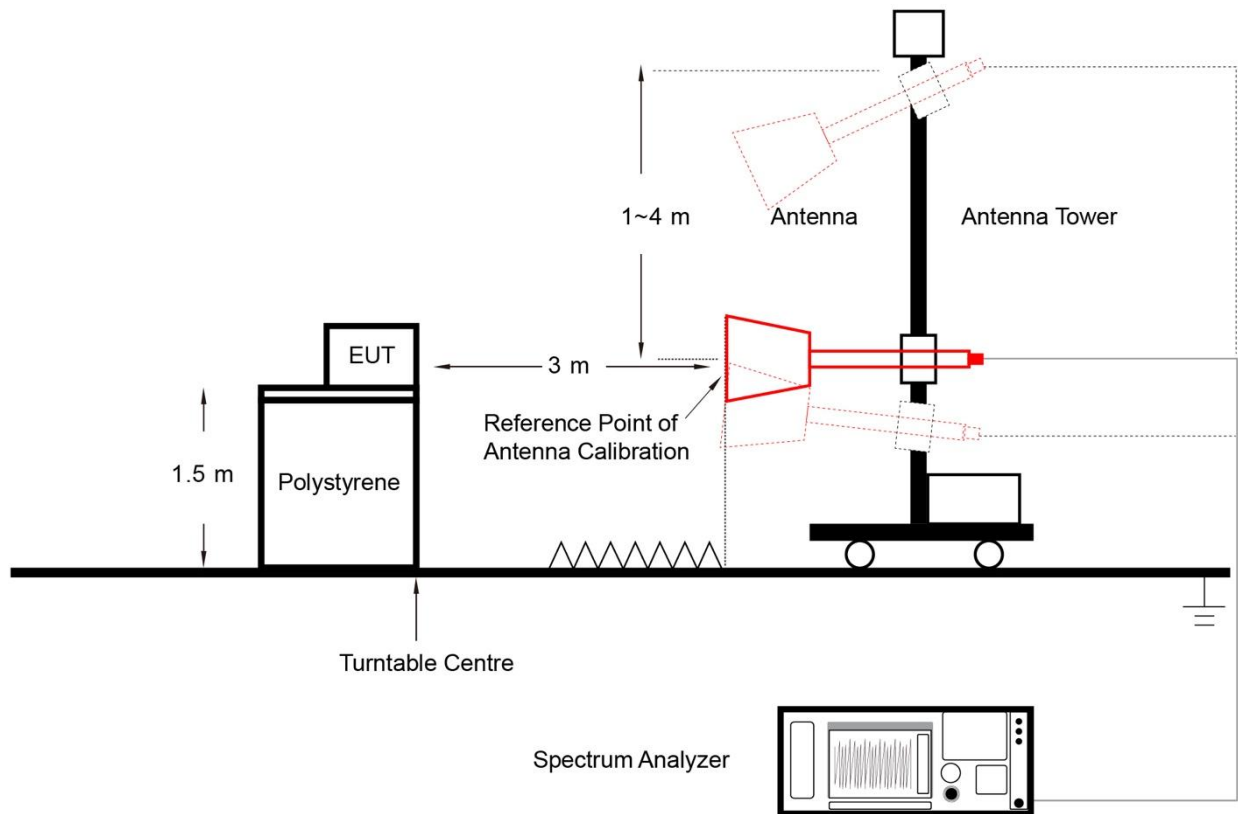
Average Measurements above 1 GHz (Method VB)

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 $\geq 98\%$, set VBW = 10 Hz
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

Below 30 MHz Test Setup:



Above 1 GHz Test Setup:



6.8.5. Test Result

Refer to Appendix A.7.

6.9. Radiated Restricted Band Edge Measurement

6.9.1. Test Limit

For 15.205 requirement:

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

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

For 15.407(b) requirement:

For transmitters operating in the band 5150-5250 MHz:

All emissions outside of the band 5150-5350 MHz shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the band 5250-5350 MHz:

All emissions outside of the band 5150-5350 MHz shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the band 5470-5725 MHz:

All emissions outside of the band 5470-5725 MHz shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the band 5725-5850 MHz:

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.

Refer to KDB 789033 D02 v02r01 - Section II - G.2.c, as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission 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

6.9.2. Test Procedure

KDB 789033 D02 v02r01 - Section II - G

6.9.3. Test Setting

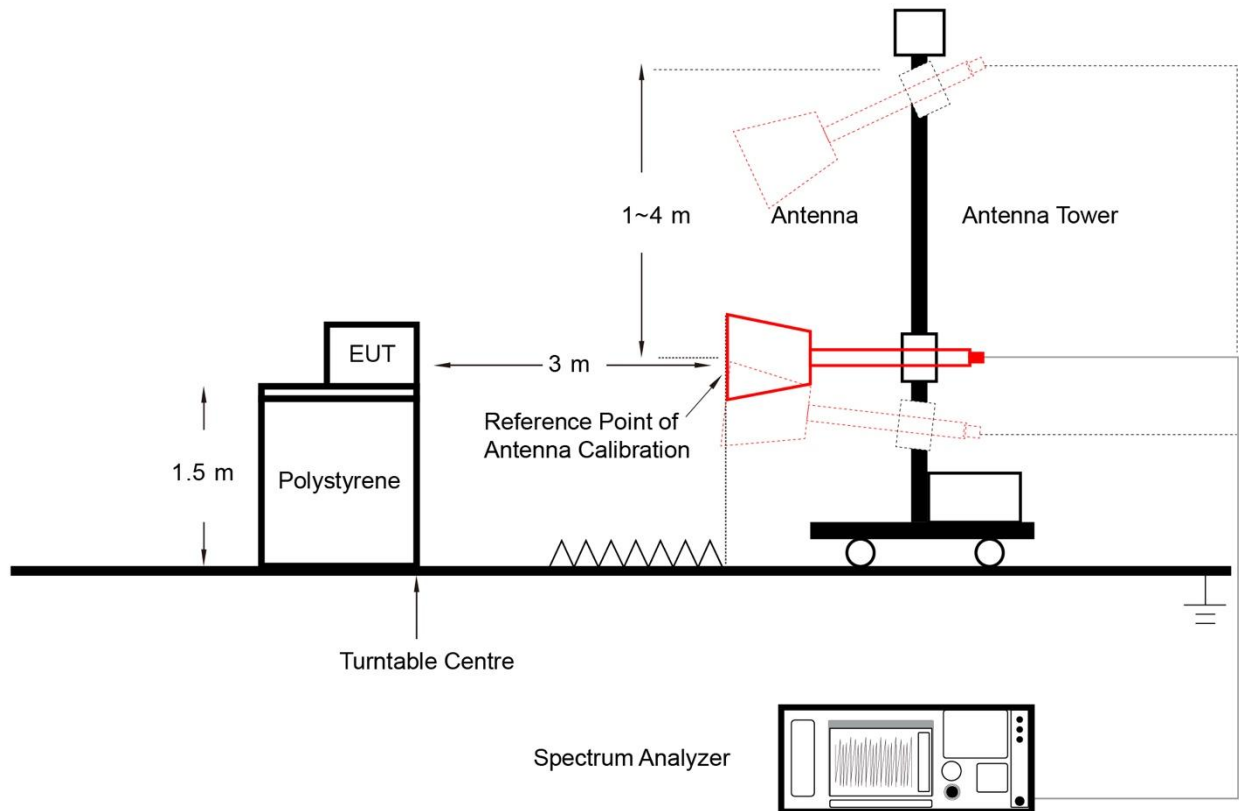
Peak Field Strength Measurements

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

Average Field Strength Measurements

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 $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.9.4. Test Setup



6.9.5. Test Result

Refer to Appendix A.8.

6.10. AC Conducted Emissions Measurement

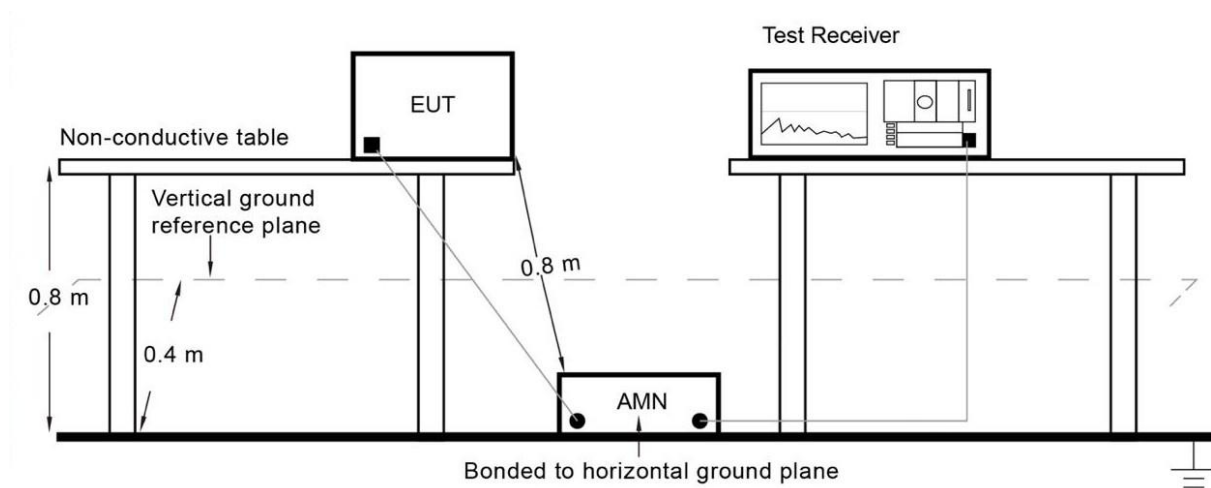
6.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (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 0.15 MHz to 0.5 MHz.

6.10.2. Test Setup



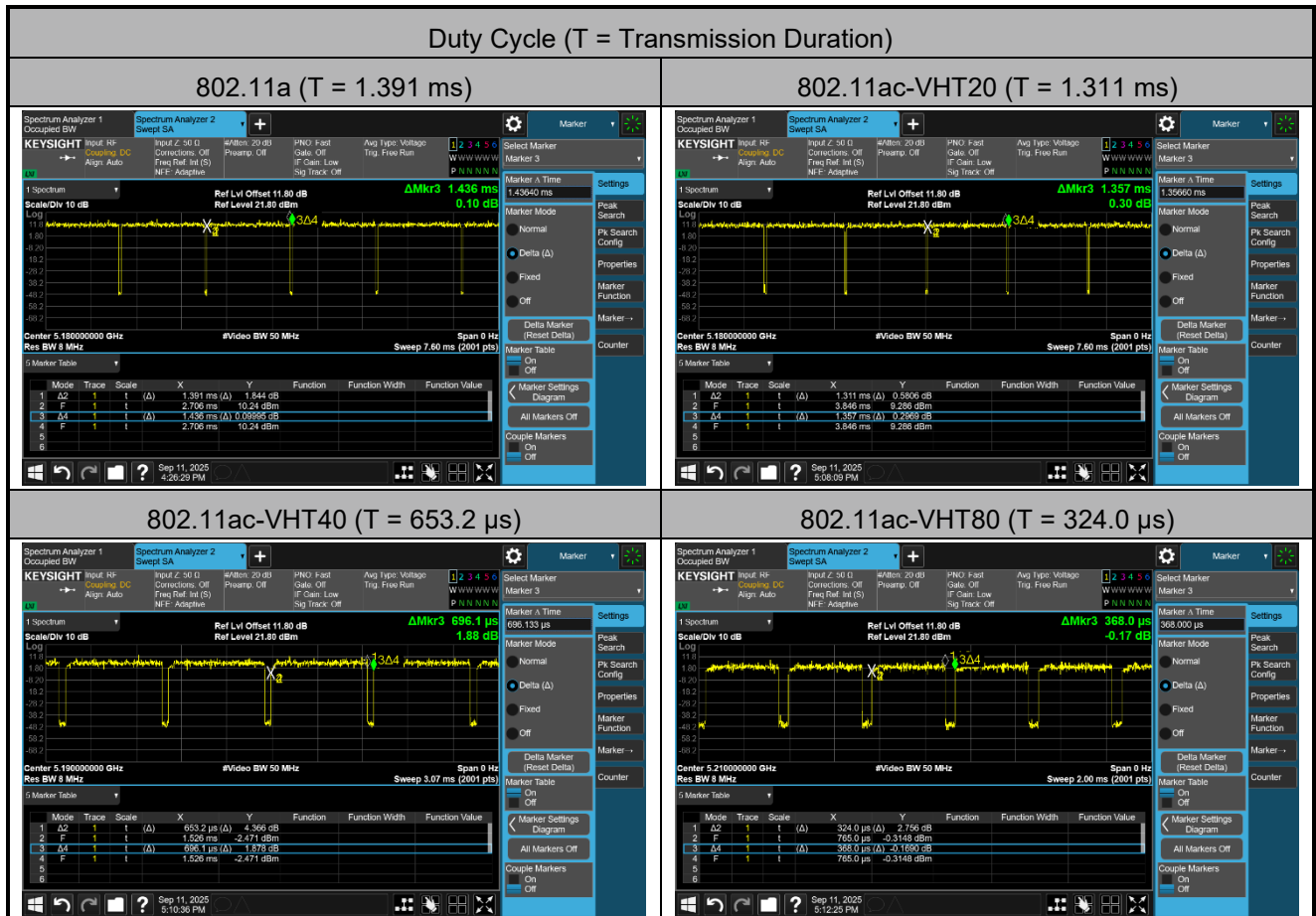
6.10.3. Test Result

Refer to Appendix A.9.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Mode	Duty Cycle	Test Mode	Duty Cycle
11a	96.87%	11ac-VHT20	96.61%
11ac-VHT40	93.84%	11ac-VHT80	88.04%



A.2 26 dB Bandwidth Test Result

Test Site	WZ-SR6	Test Engineer	Jeff Yang
Test Date	2025-09-12		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	6 Mbps	36	5180	19.64	16.450
11a	6 Mbps	44	5220	19.65	16.417
11a	6 Mbps	48	5240	19.44	16.377
11a	6 Mbps	52	5260	19.89	16.426
11a	6 Mbps	60	5300	19.63	16.406
11a	6 Mbps	64	5320	19.72	16.421
11a	6 Mbps	100	5500	19.82	16.425
11a	6 Mbps	108	5540	20.00	16.515
11a	6 Mbps	116	5580	19.86	16.431
11a	6 Mbps	149	5745	19.42	16.464
11a	6 Mbps	157	5785	20.87	16.565
11a	6 Mbps	165	5825	21.85	16.575
11ac-VHT20	MCS0	36	5180	20.18	17.538
11ac-VHT20	MCS0	44	5220	20.21	17.582
11ac-VHT20	MCS0	48	5240	20.15	17.560
11ac-VHT20	MCS0	52	5260	20.07	17.564
11ac-VHT20	MCS0	60	5300	20.31	17.590
11ac-VHT20	MCS0	64	5320	20.37	17.539
11ac-VHT20	MCS0	100	5500	20.18	17.547
11ac-VHT20	MCS0	108	5540	20.13	17.567
11ac-VHT20	MCS0	116	5580	20.16	17.553
11ac-VHT20	MCS0	149	5745	20.19	17.614
11ac-VHT20	MCS0	157	5785	20.24	17.645
11ac-VHT20	MCS0	165	5825	20.76	17.645

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11ac-VHT40	MCS0	38	5190	40.34	35.971
11ac-VHT40	MCS0	46	5230	40.36	35.912
11ac-VHT40	MCS0	54	5270	40.15	36.012
11ac-VHT40	MCS0	62	5310	40.15	35.935
11ac-VHT40	MCS0	102	5510	40.02	35.974
11ac-VHT40	MCS0	110	5550	40.06	35.954
11ac-VHT40	MCS0	151	5755	40.56	36.004
11ac-VHT40	MCS0	159	5795	40.62	36.027
11ac-VHT80	MCS0	42	5210	80.76	75.195
11ac-VHT80	MCS0	58	5290	80.19	75.171
11ac-VHT80	MCS0	106	5530	80.33	75.195
11ac-VHT80	MCS0	155	5775	80.66	75.253

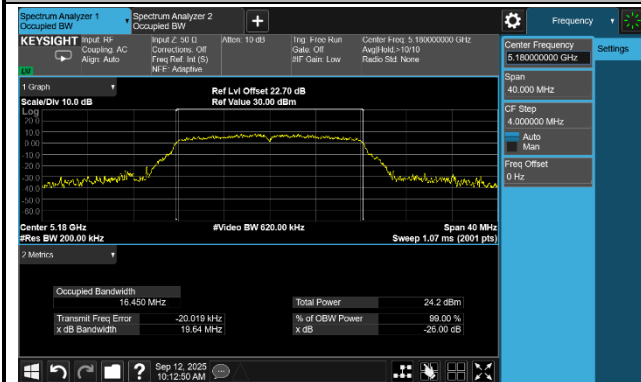
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	F _H (MHz)	Limit (MHz)
802.11a	6 Mbps	48	5240	5248.19	< 5250
802.11ac-VHT20	MCS0	48	5240	5248.78	< 5250
802.11ac-VHT40	MCS0	46	5230	5247.96	< 5250
802.11ac-VHT80	MCS0	42	5210	5247.60	< 5250

Note: F_H = Centre frequency + 99% OBW / 2.

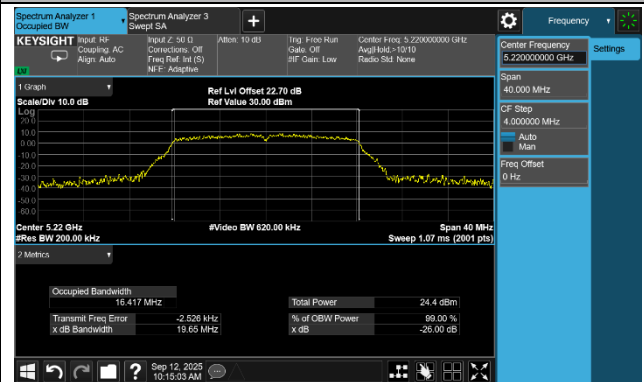
For example, 802.11a 5240 MHz, F_H = 5240 MHz + 16.377 MHz / 2 = 5248.19 MHz.

802.11a 26 dB Bandwidth & 99% Bandwidth

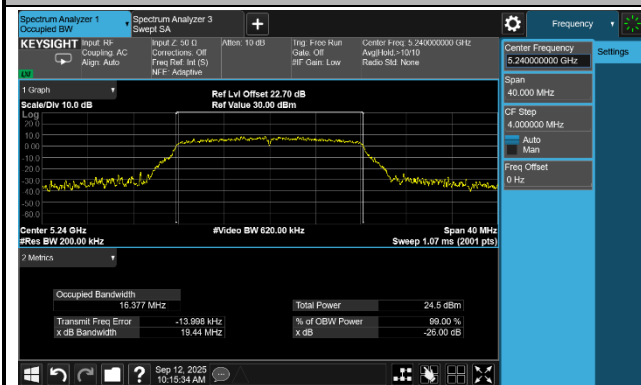
Channel 36 (5180 MHz)



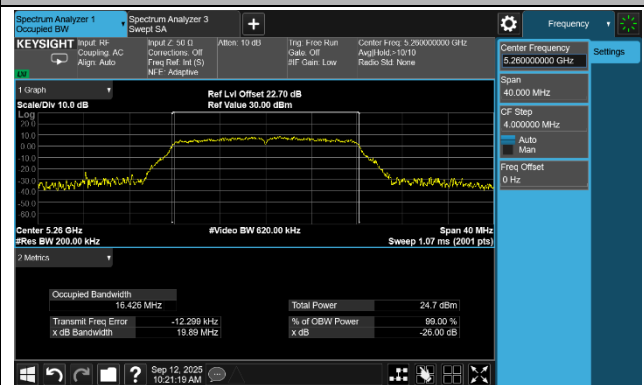
Channel 44 (5220 MHz)



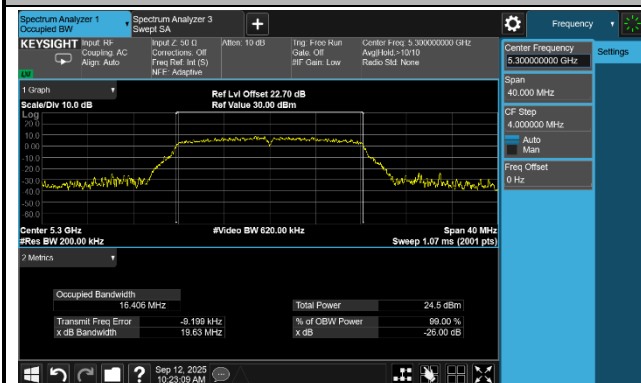
Channel 48 (5240 MHz)



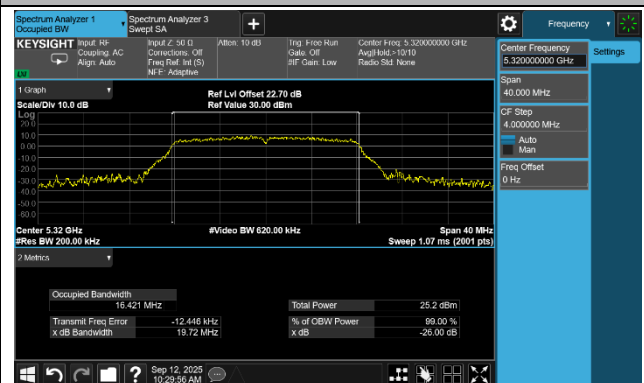
Channel 52 (5260 MHz)



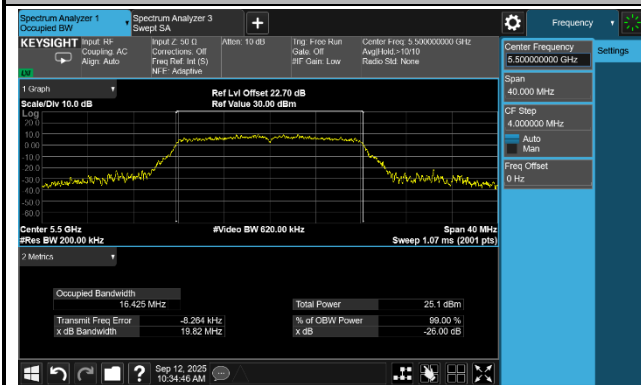
Channel 60 (5300 MHz)



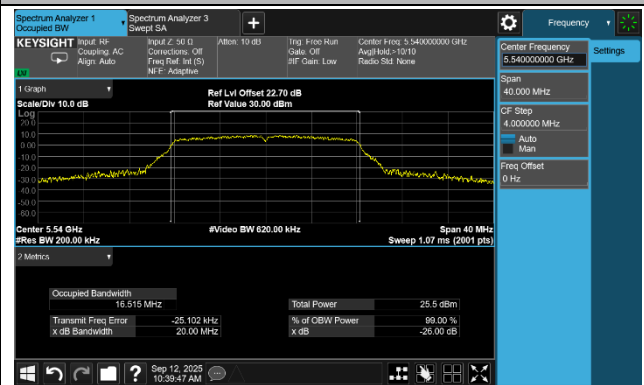
Channel 64 (5320 MHz)



Channel 100 (5500 MHz)

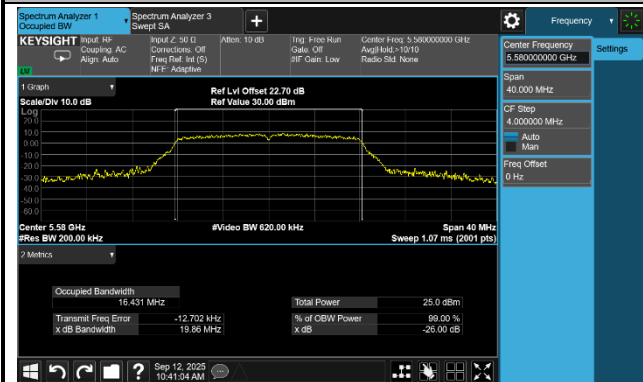


Channel 108 (5540 MHz)

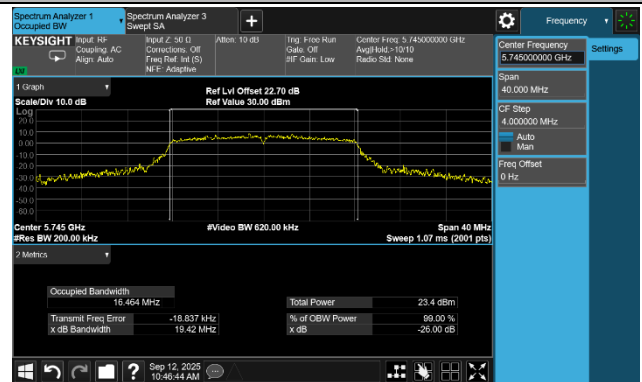


802.11a 26 dB Bandwidth & 99% Bandwidth

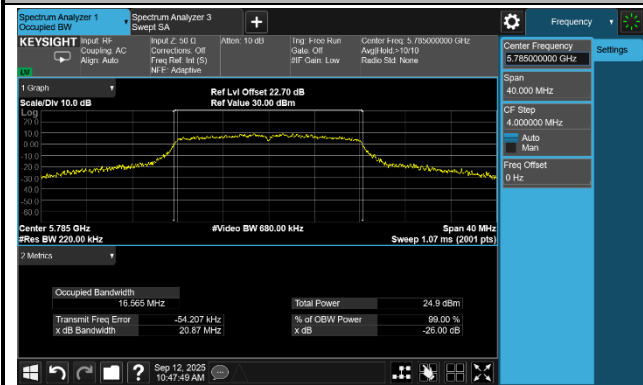
Channel 116 (5580 MHz)



Channel 149 (5745 MHz)



Channel 157 (5785 MHz)

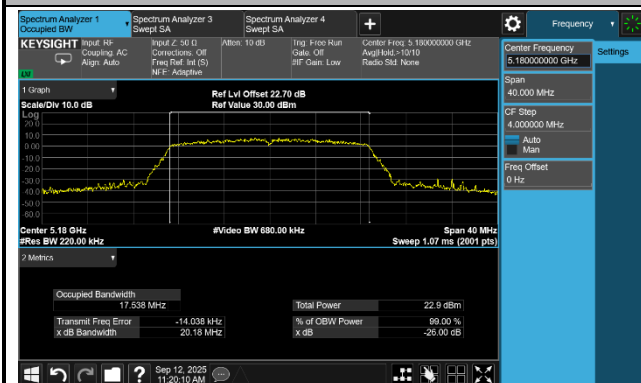


Channel 165 (5825 MHz)

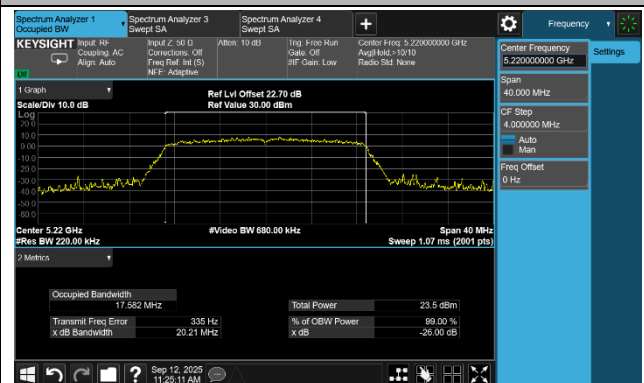


802.11ac-VHT20 26 dB Bandwidth & 99% Bandwidth

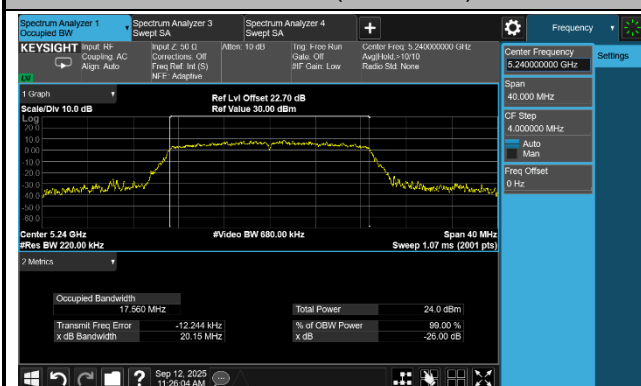
Channel 36 (5180 MHz)



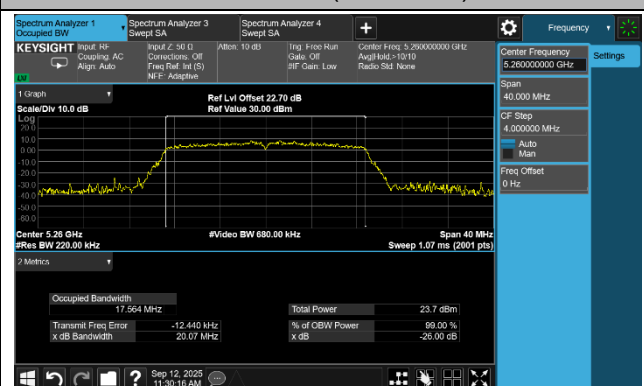
Channel 44 (5220 MHz)



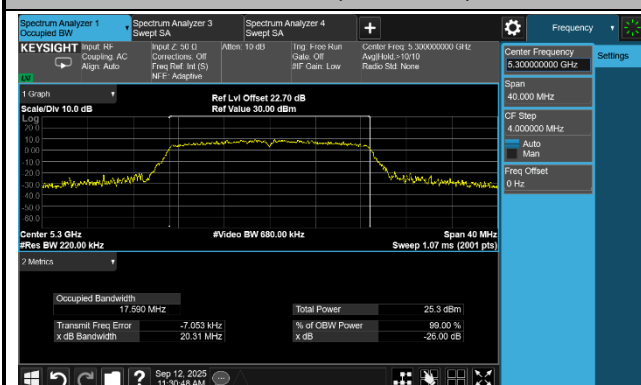
Channel 48 (5240 MHz)



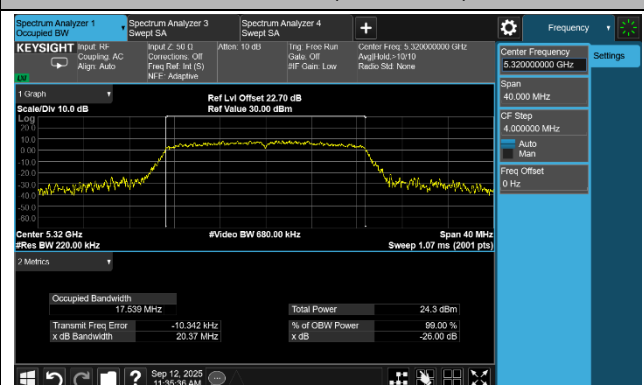
Channel 52 (5260 MHz)



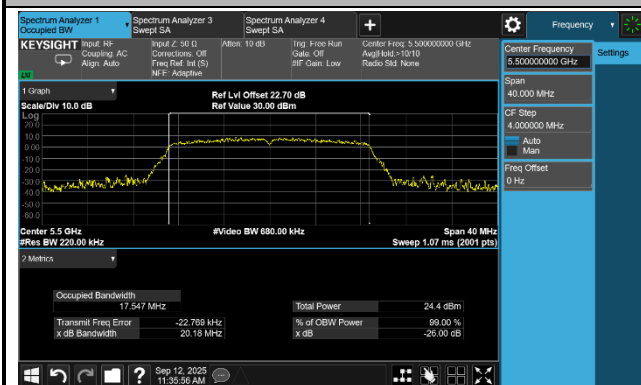
Channel 60 (5300 MHz)



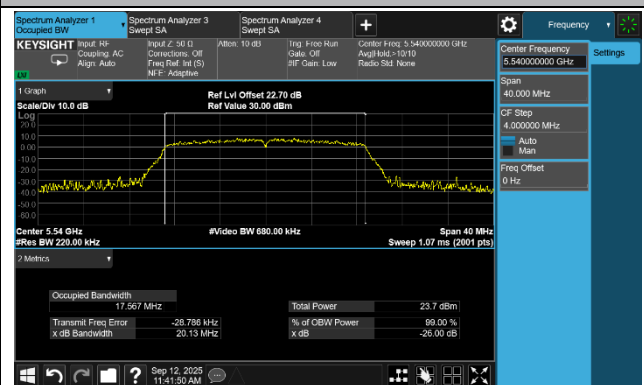
Channel 64 (5320 MHz)



Channel 100 (5500 MHz)

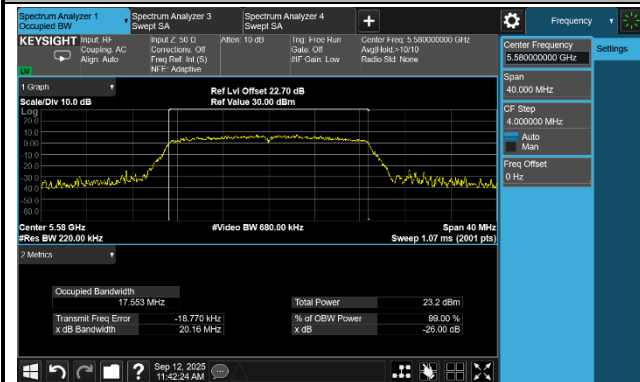


Channel 108 (5540 MHz)

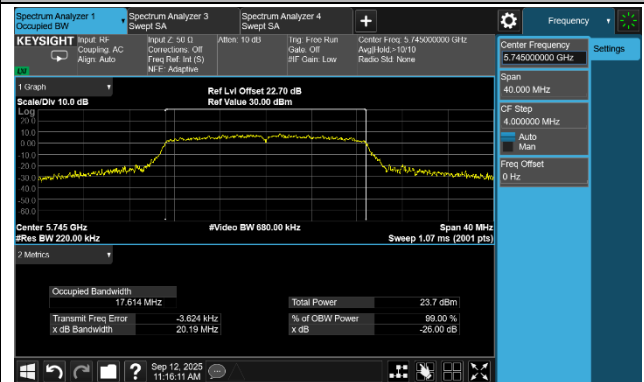


802.11ac-VHT20 26 dB Bandwidth & 99% Bandwidth

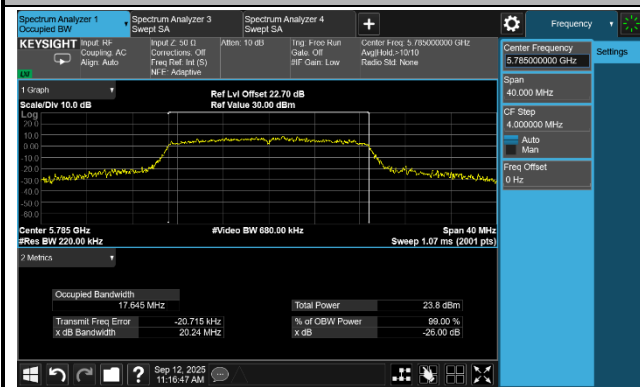
Channel 116 (5580 MHz)



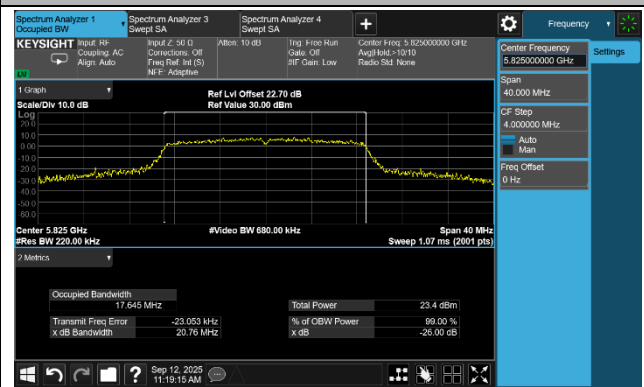
Channel 149 (5745 MHz)



Channel 157 (5785 MHz)

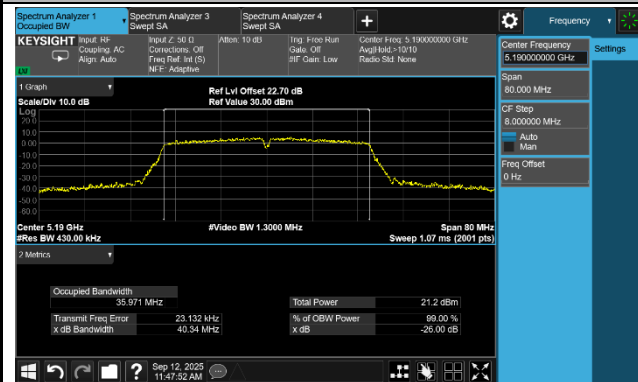


Channel 165 (5825 MHz)

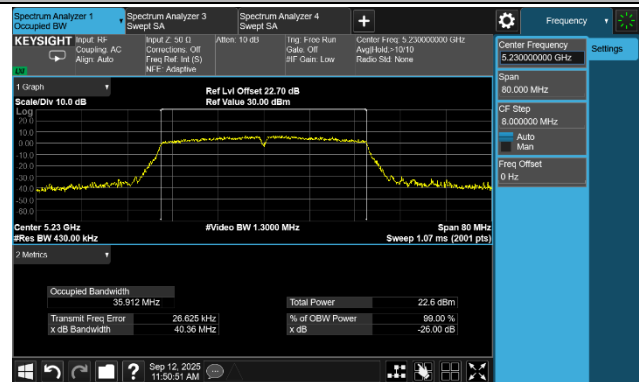


802.11ac-VHT40 26 dB Bandwidth & 99% Bandwidth

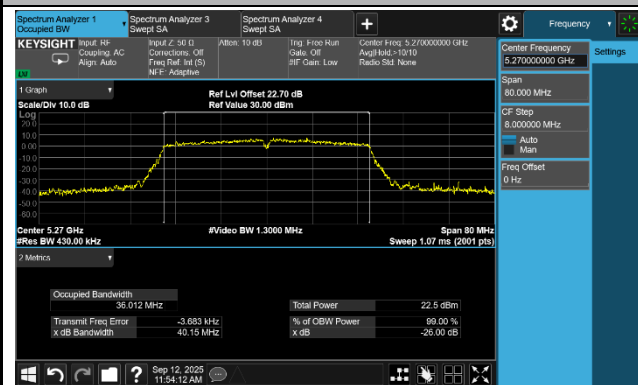
Channel 38 (5190 MHz)



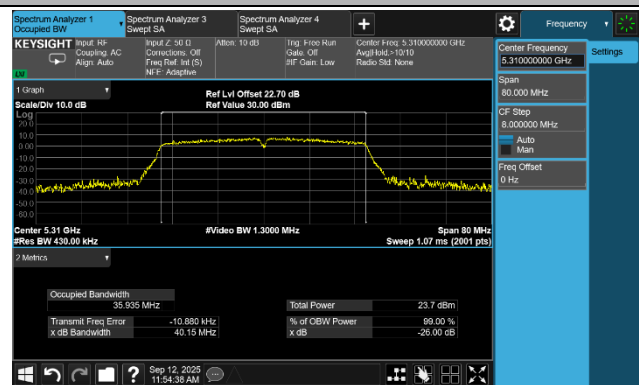
Channel 46 (5230 MHz)



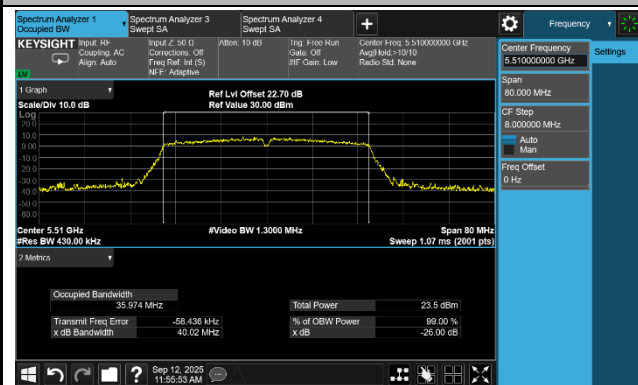
Channel 54 (5270 MHz)



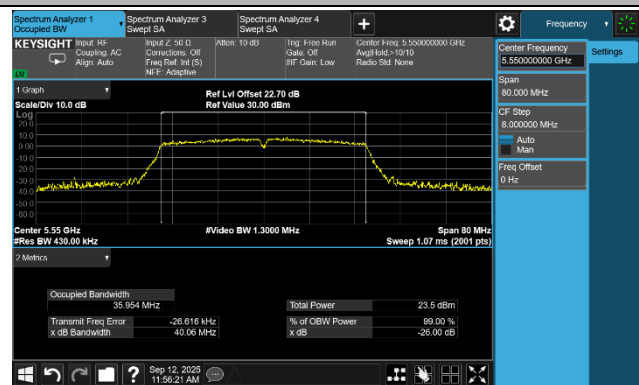
Channel 62 (5310 MHz)



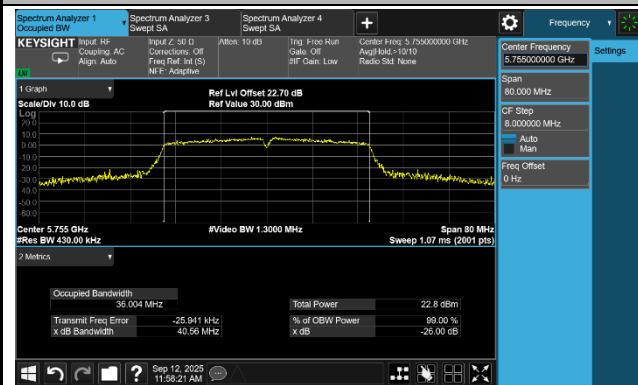
Channel 102 (5510 MHz)



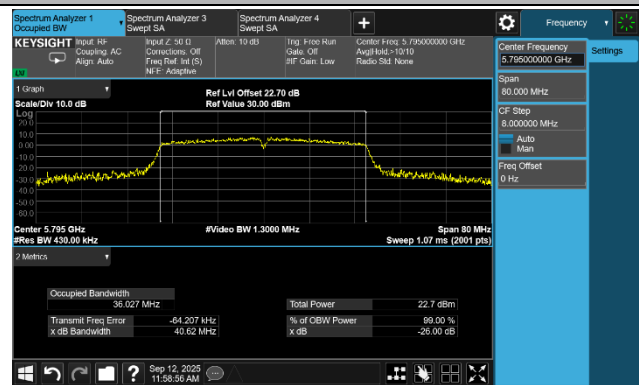
Channel 110 (5550 MHz)



Channel 151 (5755 MHz)

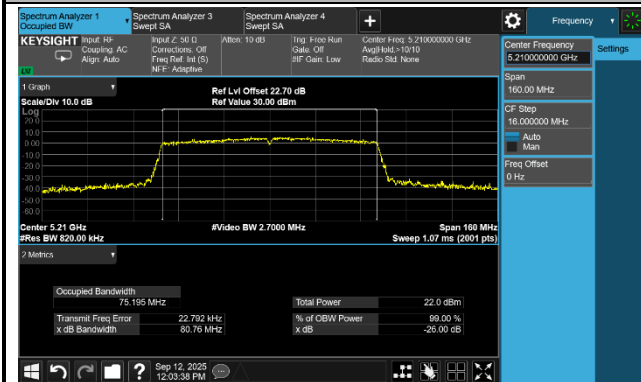


Channel 159 (5795 MHz)

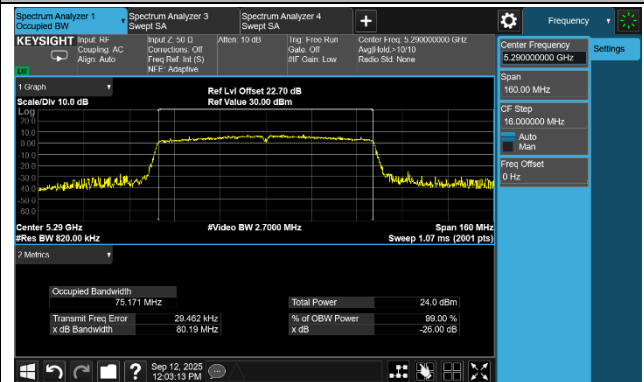


802.11ac-VHT80 26 dB Bandwidth & 99% Bandwidth

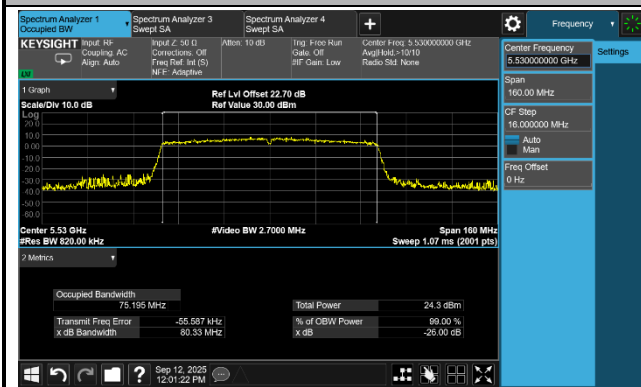
Channel 42 (5210 MHz)



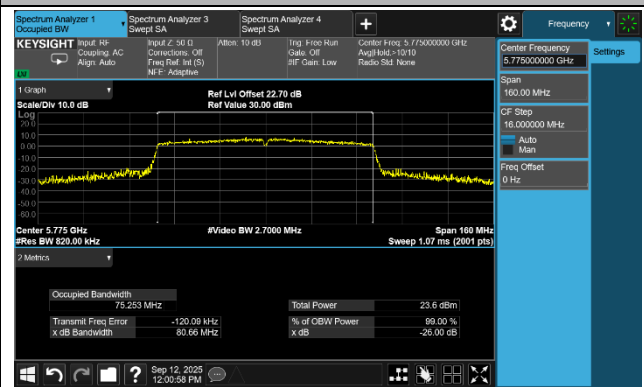
Channel 58 (5290 MHz)



Channel 106 (5530 MHz)



Channel 155 (5775 MHz)



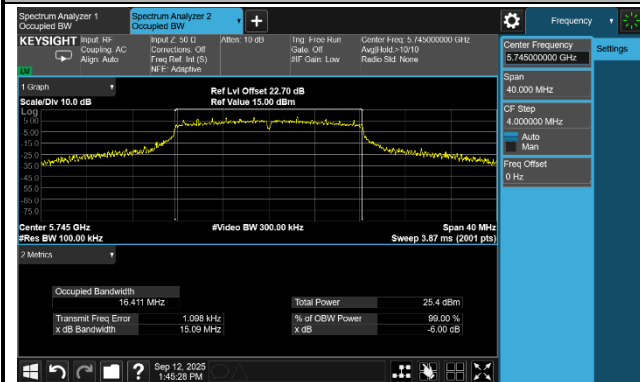
A.3 6 dB Bandwidth Test Result

Test Site	WZ-SR6	Test Engineer	Jeff Yang
Test Date	2025-09-12		

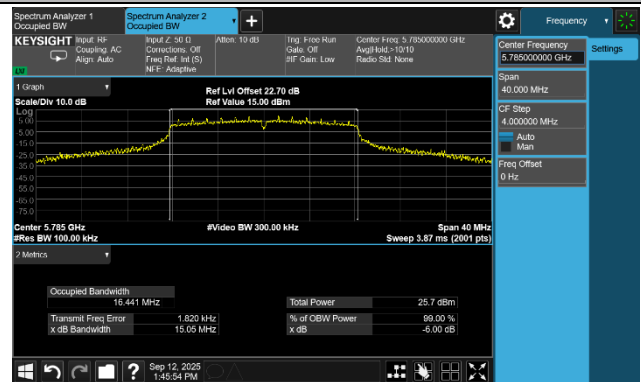
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
11a	6 Mbps	149	5745	15.09	≥0.5
11a	6 Mbps	157	5785	15.05	≥0.5
11a	6 Mbps	165	5825	14.07	≥0.5
11ac-VHT20	MCS0	149	5745	13.80	≥0.5
11ac-VHT20	MCS0	157	5785	15.05	≥0.5
11ac-VHT20	MCS0	165	5825	15.15	≥0.5
11ac-VHT40	MCS0	151	5755	35.13	≥0.5
11ac-VHT40	MCS0	159	5795	35.14	≥0.5
11ac-VHT80	MCS0	155	5775	75.16	≥0.5

802.11a 6 dB Bandwidth

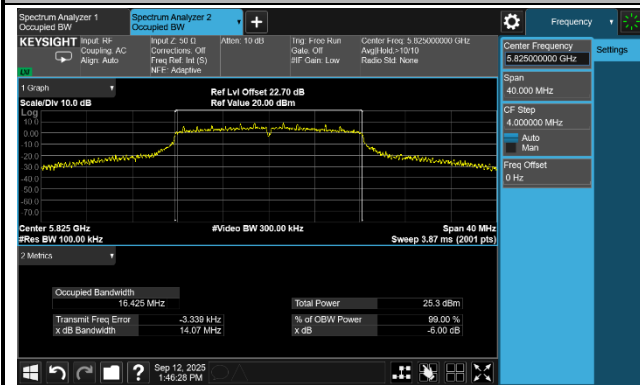
Channel 149 (5745 MHz)



Channel 157 (5785 MHz)

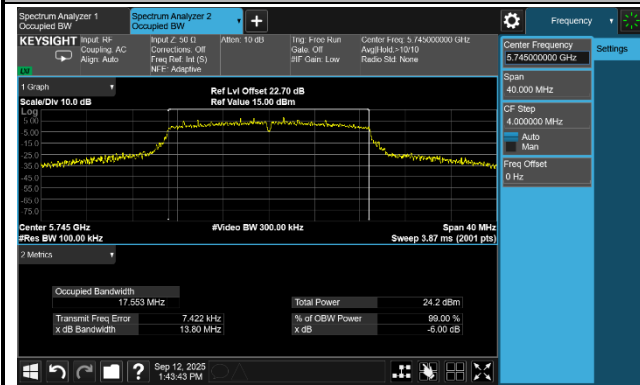


Channel 165 (5825 MHz)

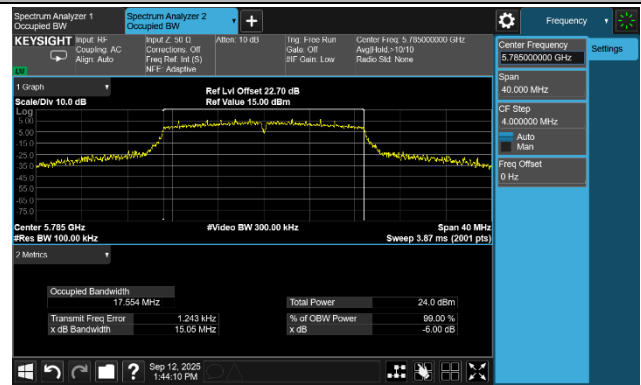


802.11ac-VHT20 6 dB Bandwidth

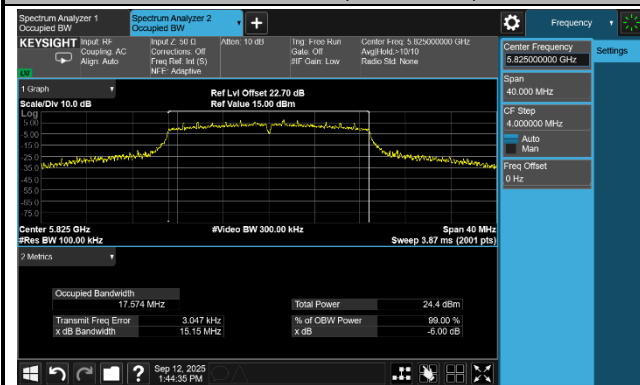
Channel 149 (5745 MHz)



Channel 157 (5785 MHz)

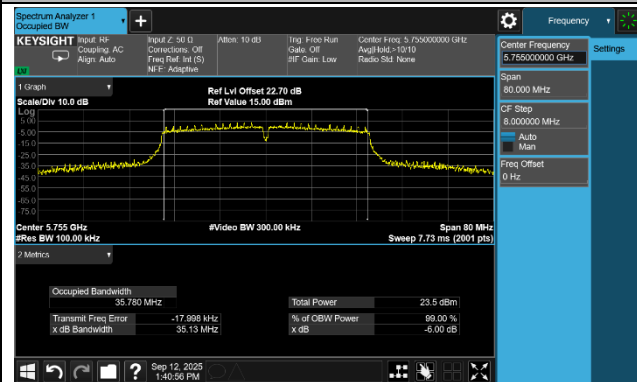


Channel 165 (5825 MHz)

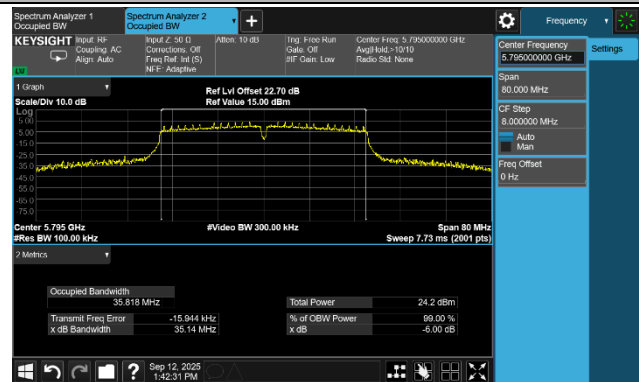


802.11ac-VHT40 6 dB Bandwidth

Channel 151 (5755 MHz)

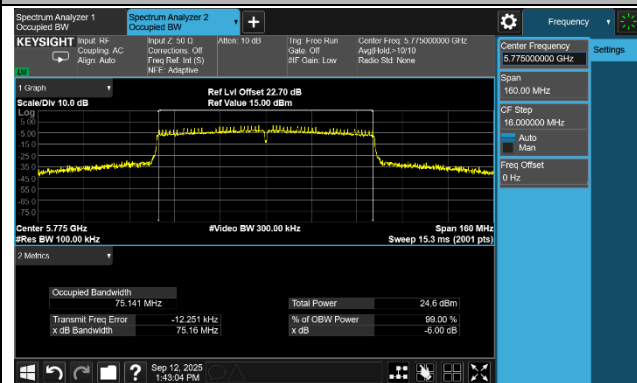


Channel 159 (5795 MHz)



802.11ac-VHT80 6 dB Bandwidth

Channel 155 (5775 MHz)



A.4 Output Power Test Result

Test Site	WZ-SR6	Test Engineer	Jeff Yang
Test Date	2025-09-11 ~ 2025-10-22	Test Mode	CDD Mode

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Average Power (dBm)	Power Limit (dBm)	Result
11a	6 Mbps	36	5180	15.22	≤ 23.98	Pass
11a	6 Mbps	44	5220	15.02	≤ 23.98	Pass
11a	6 Mbps	48	5240	15.28	≤ 23.98	Pass
11a	6 Mbps	52	5260	16.29	≤ 23.98	Pass
11a	6 Mbps	60	5300	16.03	≤ 23.93	Pass
11a	6 Mbps	64	5320	16.11	≤ 23.95	Pass
11a	6 Mbps	100	5500	17.10	≤ 23.97	Pass
11a	6 Mbps	108	5540	16.98	≤ 23.98	Pass
11a	6 Mbps	116	5580	17.06	≤ 23.98	Pass
11a	6 Mbps	149	5745	17.55	≤ 30.00	Pass
11a	6 Mbps	157	5785	17.61	≤ 30.00	Pass
11a	6 Mbps	165	5825	17.72	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	15.30	≤ 23.98	Pass
11ac-VHT20	MCS0	44	5220	15.31	≤ 23.98	Pass
11ac-VHT20	MCS0	48	5240	15.21	≤ 23.98	Pass
11ac-VHT20	MCS0	52	5260	16.26	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	16.32	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	16.38	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	17.38	≤ 23.98	Pass
11ac-VHT20	MCS0	108	5540	17.29	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	17.32	≤ 23.98	Pass
11ac-VHT20	MCS0	149	5745	17.72	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	17.71	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	17.43	≤ 30.00	Pass

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Average Power (dBm)	Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	15.33	≤ 23.98	Pass
11ac-VHT40	MCS0	46	5230	15.30	≤ 23.98	Pass
11ac-VHT40	MCS0	54	5270	16.05	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	16.12	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	17.26	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	17.23	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	17.78	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	17.86	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	15.32	≤ 23.98	Pass
11ac-VHT80	MCS0	58	5290	16.36	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	16.20	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	17.87	≤ 30.00	Pass

Note: For Band-Crossing channel, Average Power Limit = 23.98 dBm or $11+10 \times \log_{10} \text{EBW}_{2C}$, which is less.

A.5 Power Spectral Density Test Result

Test Site	WZ-SR6	Test Engineer	Jeff Yang
Test Date	2025-09-17 ~ 2025-10-22		
Test Item	Power Spectral Density (UNII-1 & UNII-2A & UNII-2C)		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/ MHz)	Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)
11a	6 Mbps	36	5180	4.566	96.87	4.704	≤ 11.00
11a	6 Mbps	44	5220	4.187	96.87	4.325	≤ 11.00
11a	6 Mbps	48	5240	4.437	96.87	4.575	≤ 11.00
11a	6 Mbps	52	5260	6.027	96.87	6.165	≤ 11.00
11a	6 Mbps	60	5300	5.573	96.87	5.711	≤ 11.00
11a	6 Mbps	64	5320	5.775	96.87	5.913	≤ 11.00
11a	6 Mbps	100	5500	6.474	96.87	6.612	≤ 11.00
11a	6 Mbps	108	5540	6.727	96.87	6.865	≤ 11.00
11a	6 Mbps	116	5580	5.656	96.87	5.794	≤ 11.00
11ac-VHT20	MCS0	36	5180	4.281	96.61	4.431	≤ 11.00
11ac-VHT20	MCS0	44	5220	4.307	96.61	4.457	≤ 11.00
11ac-VHT20	MCS0	48	5240	4.511	96.61	4.661	≤ 11.00
11ac-VHT20	MCS0	52	5260	5.694	96.61	5.844	≤ 11.00
11ac-VHT20	MCS0	60	5300	5.726	96.61	5.876	≤ 11.00
11ac-VHT20	MCS0	64	5320	5.057	96.61	5.207	≤ 11.00
11ac-VHT20	MCS0	100	5500	5.773	96.61	5.923	≤ 11.00
11ac-VHT20	MCS0	108	5540	5.049	96.61	5.199	≤ 11.00
11ac-VHT20	MCS0	116	5580	5.921	96.61	6.071	≤ 11.00
11ac-VHT40	MCS0	38	5190	0.915	93.84	1.191	≤ 11.00
11ac-VHT40	MCS0	46	5230	1.706	93.84	1.982	≤ 11.00
11ac-VHT40	MCS0	54	5270	2.496	93.84	2.772	≤ 11.00
11ac-VHT40	MCS0	62	5310	1.898	93.84	2.174	≤ 11.00
11ac-VHT40	MCS0	102	5510	2.476	93.84	2.752	≤ 11.00
11ac-VHT40	MCS0	110	5550	1.822	93.84	2.098	≤ 11.00
11ac-VHT80	MCS0	42	5210	-1.618	88.04	-1.065	≤ 11.00
11ac-VHT80	MCS0	58	5290	-0.637	88.04	-0.084	≤ 11.00
11ac-VHT80	MCS0	106	5530	-0.989	88.04	-0.436	≤ 11.00

Note: Duty Cycle < 98%, Total PSD (dBm/MHz) = AVPSD (dBm/ MHz) + 10 × log (1/Duty cycle).

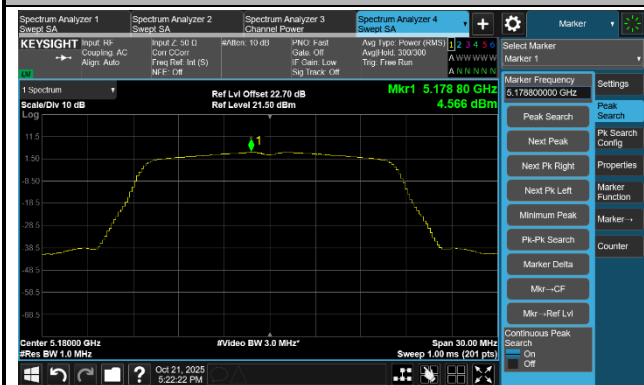
Test Site	WZ-SR6	Test Engineer	Jeff Yang
Test Date	2025-09-12 ~ 2025-10-22		
Test Item	Power Spectral Density (UNII-Band 3)		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	AVPSD (dBm/510 kHz)	Duty Cycle (%)	Total PSD (dBm/ 510 kHz)	PSD Limit (dBm/ 500 kHz)
11a	6 Mbps	149	5745	3.282	96.87	3.420	≤ 30.00
11a	6 Mbps	157	5785	3.610	96.87	3.748	≤ 30.00
11a	6 Mbps	165	5825	4.402	96.87	4.540	≤ 30.00
11ac-VHT20	MCS0	149	5745	3.400	96.61	3.550	≤ 30.00
11ac-VHT20	MCS0	157	5785	2.619	96.61	2.769	≤ 30.00
11ac-VHT20	MCS0	165	5825	3.159	96.61	3.309	≤ 30.00
11ac-VHT40	MCS0	151	5755	0.058	93.84	0.334	≤ 30.00
11ac-VHT40	MCS0	159	5795	0.184	93.84	0.460	≤ 30.00
11ac-VHT80	MCS0	155	5775	-2.667	88.04	-2.114	≤ 30.00

Note: Duty Cycle < 98%, Total PSD (dBm/510 kHz) = AVPSD (dBm/510 kHz) + 10 × log (1/Duty cycle).

802.11a Power Spectral Density

Channel 36 (5180 MHz)



Channel 44 (5220 MHz)



Channel 48 (5240 MHz)



Channel 52 (5260 MHz)



Channel 60 (5300 MHz)

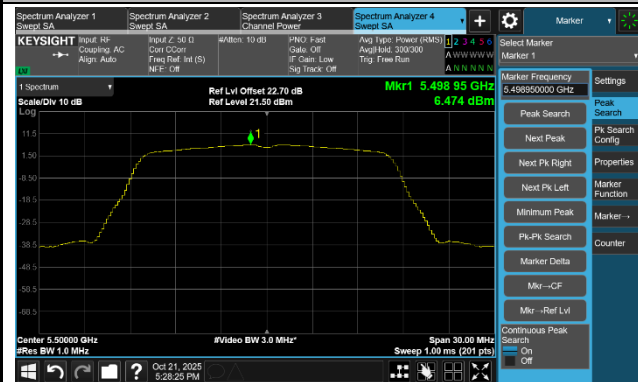


Channel 64 (5320 MHz)

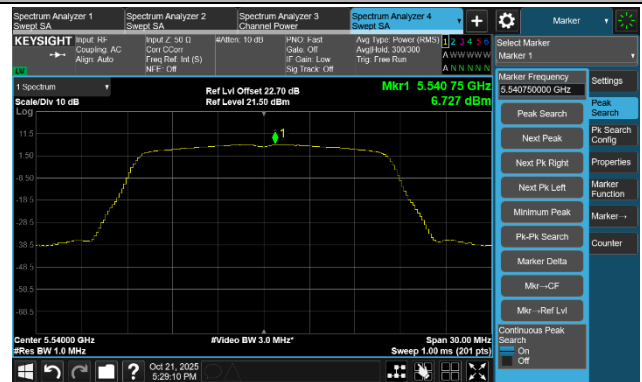


802.11a Power Spectral Density

Channel 100 (5500 MHz)



Channel 108 (5540 MHz)



Channel 116 (5580 MHz)



Channel 149 (5745 MHz)



Channel 157 (5785 MHz)

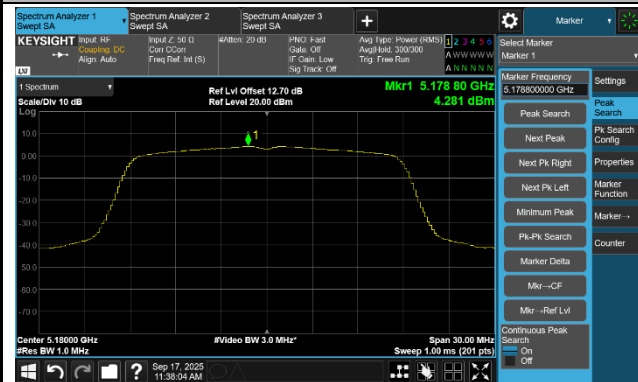


Channel 165 (5825 MHz)

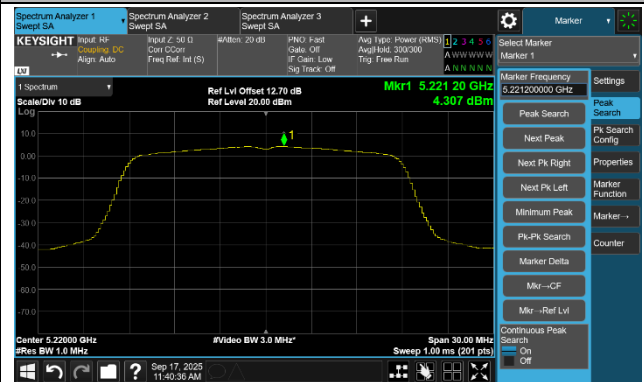


802.11ac-VHT20 Power Spectral Density

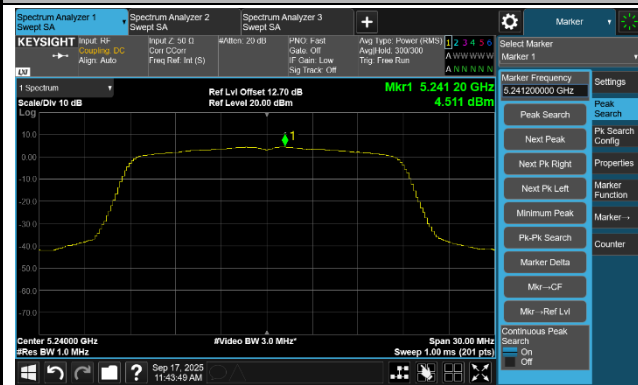
Channel 36 (5180 MHz)



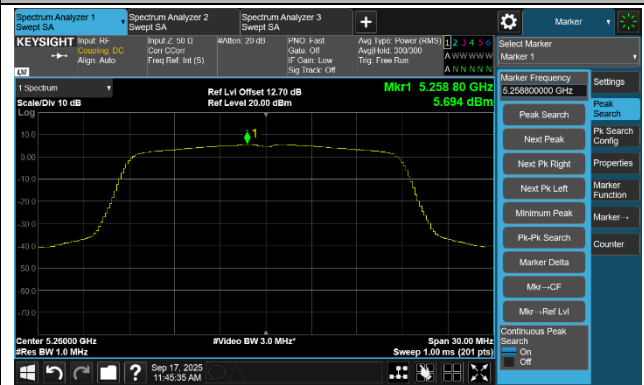
Channel 44 (5220 MHz)



Channel 48 (5240 MHz)



Channel 52 (5260 MHz)



Channel 60 (5300 MHz)



Channel 64 (5320 MHz)

