

MEASUREMENT REPORT

FCC ID : HD5-CT70L0
Applicant : Honeywell International Inc
Application Type : Certification
Product : Mobile Computer
Model No. : CT70-L0
Brand Name : Honeywell
FCC Classification : Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s) : Part15 Subpart E (Section 15.407)
Received Date : May 12, 2025
Test Date : June 25, 2025~July 31, 2025

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(Paddy Chen)
Approved By : Chenz Ker
(Chenz Ker)



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 KDB 789033 D02v02r01. 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 (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2505TW0108-U5	1.0	Original Report	2025-08-04	

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General Information

Applicant	Honeywell International Inc
Applicant Address	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Manufacturer	Honeywell International Inc
Manufacturer Address	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.407

Test Facility / Accreditations

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

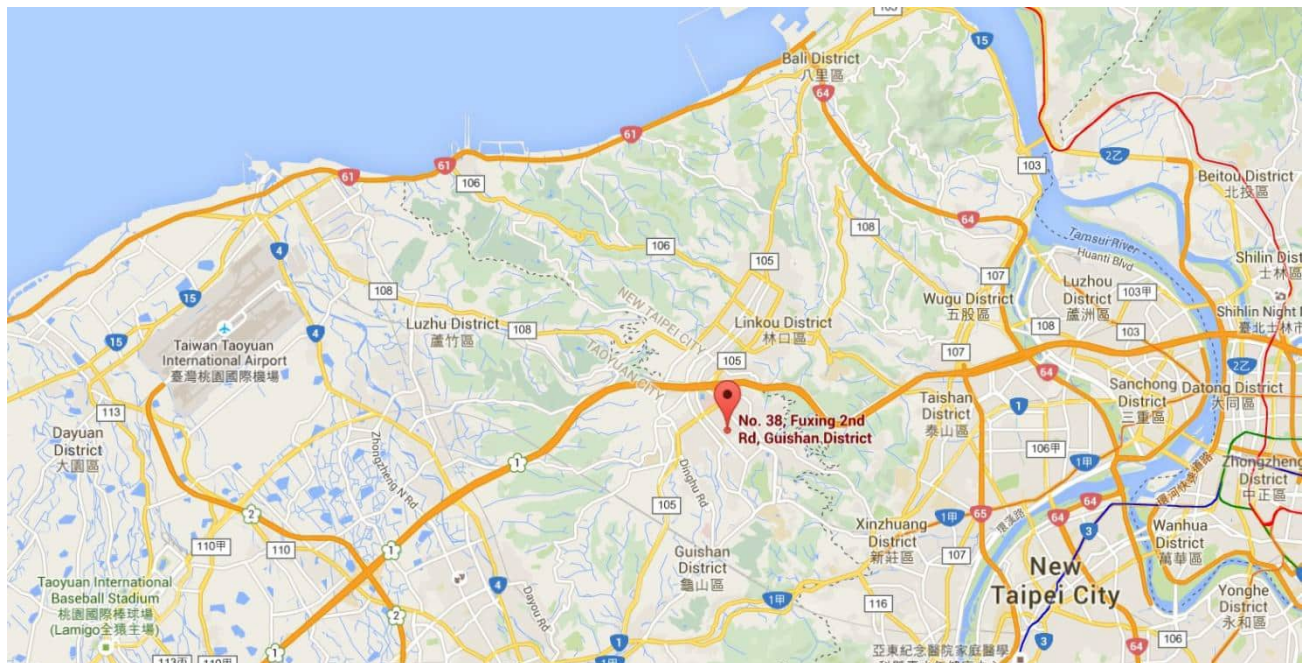
1. INTRODUCTION

1.1. Scope

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

1.2. MRT Test Location

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



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Mobile Computer
Model No.	CT70-L0
Brand Name	Honeywell
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	Main BT/BLE: V6.0 dual mode + 2 nd BLE: V5.3 Single mode
NFC Specification	13.56MHz
EUT Identification No.	#Sample 1 (Conducted) #25163E004B (Radiated)
Accessory	
Standard Battery	Brand: Honeywell MODEL: CT70-BTSC Rating: 3.87Vdc, 4720mAh, 18.27Wh
Extend Battery	Brand: Honeywell MODEL: CT70-BTEC Rating: 3.87Vdc, 7570mAh, 29.3Wh
WPC Battery	Brand: Honeywell MODEL: CT70-BTWC Rating: 3.87Vdc, 4720mAh, 18.27Wh

Note:

1. For other features of this EUT, test report will be issued separately.
2. This product has 2 scanners, can refer as below:

Scanner	S0703	S0803FR	--	--	--
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3. This report used S0703 scanner as the main test.
4. HBS is different filter path which only effective for U-NII-1 and U-NII-2A.

2.2. Product Specification Subjective to this Report

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20/be-EHT20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80/be-EHT80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz, 5690MHz, 5775MHz For 802.11ac-VHT160/ax-HE160/be-EHT160: 5250MHz, 5570MHz
Type of Modulation	802.11a/n/ac: OFDM 802.11ax/be: OFDMA
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2402Mbps 802.11be: up to 2882Mbps

Note: For other features of this EUT, test report will be issued separately.

2.3. Working Frequencies for this report

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

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	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	--	--	--	--

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	151	5755 MHz	159	5795 MHz

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	155	5775 MHz

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250MHz	114	5570 MHz	--	--

2.4. Description of Available Antennas

Antenna Type	Frequency Band (MHz)	T _x Paths	Number of spatial streams	Wi-Fi 0 (TX1) Gain (dBi)	Wi-Fi 1 (TX2) Gain (dBi)	Beamforming Directional Gain(dBi)	CDD Directional Gain (dBi)	
							For Power	For PSD
Wi-Fi Antenna (Brand: Amphenol, M/N: US542A-16-002-C WLAN_S803, US542A-16-012-C WLAN_S703)								
PIFA	2400~2483.5	2	1	0.4	1.3	--	1.30	3.87
	5150~5250	2	1	1.1	0.3	--	1.10	3.72
	5250~5350	2	1	0.8	0.5	--	0.80	3.66
	5470~5725	2	1	2.5	1.1	--	2.50	4.84
	5725~5850	2	1	2.3	1.1	--	2.30	4.73
	5850~5895	2	1	2.1	0.9	--	2.10	4.53
	5925~6425	2	1	1.9	0.7	--	1.90	4.33
	6425~6525	2	1	0.7	0.7	--	0.70	3.71
	6525~6875	2	1	1.6	2.1	--	2.10	4.86
	6875~7125	2	1	1.3	2.6	--	2.60	4.98
Remark:								
1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.								
If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream follows.								
• For power spectral density (PSD) measurements on all devices,								
$dBS(dBW/m^2) = 10 \log_{10} \left(\frac{\sum_{i=1}^N S_{i,j} ^2}{N} \right)$								
• For power measurements on IEEE 802.11 devices,								
Array Gain = 0 dB for N _{ANT} ≤ 4;								
2. All messages of antenna were declared by manufacturer.								

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

2.5. Test Mode

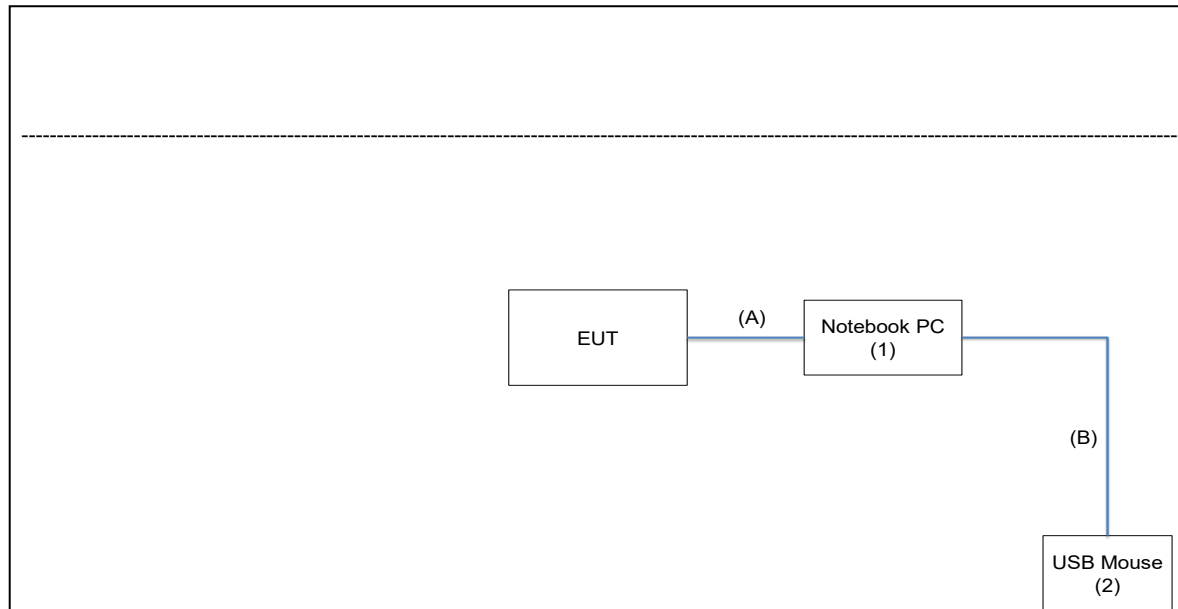
CDD Mode
Mode 1: Transmit by 802.11a_ (6Mbps) (CDD mode)
Mode 2: Transmit by 802.11ac-VHT20_ (MCS0) (CDD mode)
Mode 3: Transmit by 802.11ac-VHT40_ (MCS0) (CDD mode)
Mode 4: Transmit by 802.11ac-VHT80_ (MCS0) (CDD mode)
Mode 5: Transmit by 802.11ac-VHT160_ (MCS0) (CDD mode)
Mode 6: Transmit by 802.11be-EHT20_ (MCS0) (CDD mode)
Mode 7: Transmit by 802.11be-EHT40_ (MCS0) (CDD mode)
Mode 8: Transmit by 802.11be-EHT80_ (MCS0) (CDD mode)
Mode 9: Transmit by 802.11be-EHT160_ (MCS0) (CDD mode)
Mode 10: Transmit by 802.11be-EHT20_26Tone (CDD mode)
Mode 11: Transmit by 802.11be-EHT20_52Tone (CDD mode)
Mode 12: Transmit by 802.11be-EHT20_106Tone (CDD mode)
Mode 13: Transmit by 802.11be-EHT20_242Tone (CDD mode)
Mode 14: Transmit by 802.11be-EHT40_26Tone (CDD mode)
Mode 15: Transmit by 802.11be-EHT40_52Tone (CDD mode)
Mode 16: Transmit by 802.11be-EHT40_106Tone (CDD mode)
Mode 17: Transmit by 802.11be-EHT40_242Tone (CDD mode)
Mode 18: Transmit by 802.11be-EHT40_484Tone (CDD mode)
Mode 19: Transmit by 802.11be-EHT80_26Tone (CDD mode)
Mode 20: Transmit by 802.11be-EHT80_52Tone (CDD mode)
Mode 21: Transmit by 802.11be-EHT80_106Tone (CDD mode)
Mode 22: Transmit by 802.11be-EHT80_242Tone (CDD mode)
Mode 23: Transmit by 802.11be-EHT80_484Tone (CDD mode)
Mode 24: Transmit by 802.11be-EHT80_996Tone (CDD mode)
Mode 25: Transmit by 802.11be-EHT160_26Tone (CDD mode)
Mode 26: Transmit by 802.11be-EHT160_52Tone (CDD mode)
Mode 27: Transmit by 802.11be-EHT160_106Tone (CDD mode)
Mode 28: Transmit by 802.11be-EHT160_242Tone (CDD mode)
Mode 29: Transmit by 802.11be-EHT160_484Tone (CDD mode)
Mode 30: Transmit by 802.11be-EHT160_996Tone (CDD mode)
Mode 31: Transmit by 802.11be-EHT160_1992Tone (CDD mode)
Mode 32: Transmit by 802.11be-EHT20_MRU_52+26Tone (CDD mode)
Mode 33: Transmit by 802.11be-EHT20_MRU_102+26Tone (CDD mode)
Mode 34: Transmit by 802.11be-EHT20_MRU_484+242Tone (CDD mode)
Mode 35: Transmit by 802.11be-EHT20_MRU_996+484Tone (CDD mode)

Mode 36: Transmit by 802.11be-EHT80_Puncture_484+242Tone (CDD mode)
Mode 37: Transmit by 802.11be-EHT80_Puncture_996+484Tone (CDD mode)
Mode 38: Transmit by 802.11be-EHT80_Puncture_996+484+242Tone (CDD mode)
Remark: 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. 2. 802.11n, 802.11ac, 802.11ax and 802.11be have same modulation type and same power parameter, so we only show 802.11ac, 802.11be test data in report.

2.6. Configuration of Test System

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

Connection Diagram



Signal Cable Type		Signal Cable Description
A	USB Type C Cable	Shielded, 1.0m
B	USB Mouse Cable	Shielded, 1.8m

2.7. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	V14 G3 ABA	N/A	Non-shielded, 0.8m
2	USB Mouse	Logitech	M90	N/A	N/A

2.8. Description of Test Software

The test utility software used during testing was “QRCT”, the version is ver4.0-00209.

Note: Final power setting please refer to operational description.

2.9. Applied Standards

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

- FCC Part 15.407
- KDB 789033 D02v02r01,
- KDB 662911 D01v02r01
- ANSI C63.10-2013

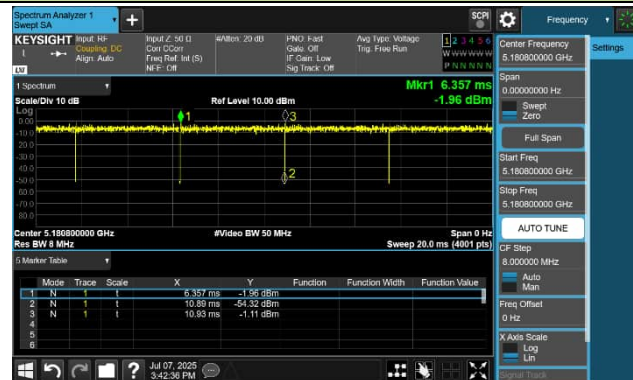
2.10. Duty Cycle

5GHz (NII) operation is possible in 20MHz, 40MHz, 80MHz and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

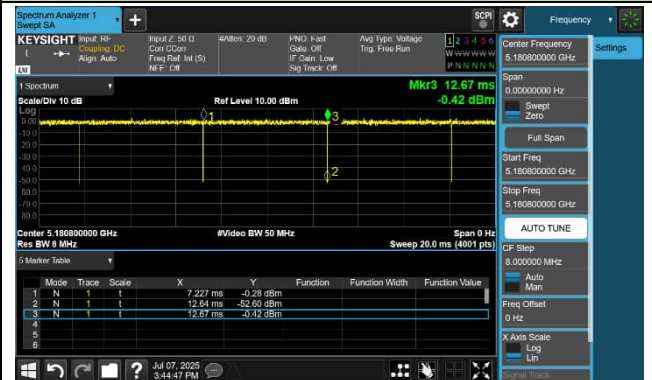
Test Mode	Duty Cycle
802.11a	99.13%
802.11ac-VHT20	99.45%
802.11ac-VHT40	99.08%
802.11ac-VHT80	98.41%
802.11ac-VHT160	97.88%
802.11ax-HE20	98.42%
802.11ax-HE40	98.96%
802.11ax-HE80	99.41%
802.11ax-HE160	98.23%
802.11be-EHT20	99.27%
802.11be-EHT40	98.14%
802.11be-EHT80	98.53%
802.11be-EHT160	98.59%
802.11be-EHT20_26 Tone_RU4	99.35%
802.11be-EHT20_52 Tone_RU75	99.13%
802.11be-EHT20_106 Tone_RU106	99.30%
802.11be-EHT20_242 Tone_RU122	98.28%
802.11be-EHT40_484 Tone_RU130	97.05%
802.11be-EHT80_996 Tone_RU134	96.44%
802.11be-EHT160_1992 Tone_RU136	95.82%
802.11be-EHT20_52+26 Tone_MRU	98.34%
802.11be-EHT20_106+26 Tone_MRU	99.40%
802.11be-EHT80_484+242 Tone_MRU	96.46%
802.11be-EHT160_996+484 Tone_MRU	92.93%
802.11be-EHT80_484+242 Tone_PUN 1	98.18%
802.11be-EHT160_996+484 Tone_40-PUN 1	98.73%
802.11be-EHT160_996+484+242 Tone_20-PUN 1	99.26%

Duty Cycle

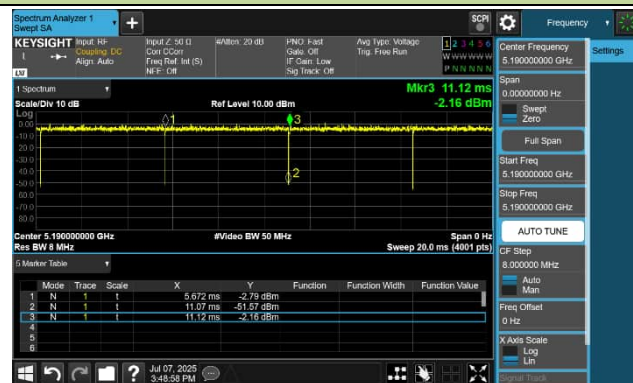
802.11a



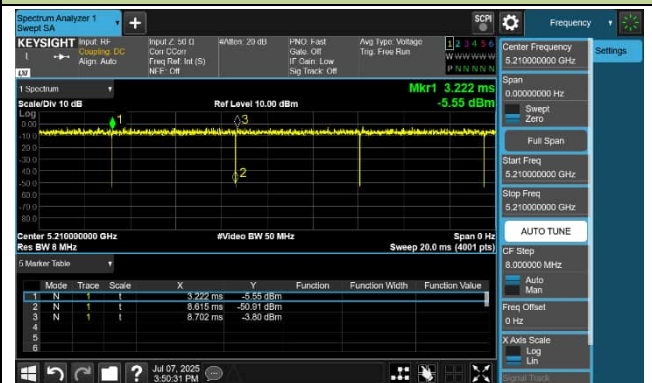
802.11ac-HE20



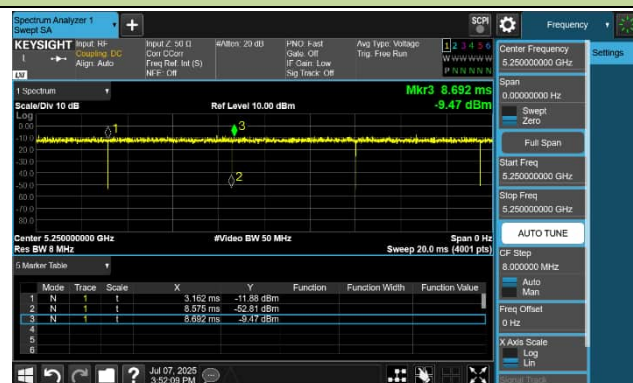
802.11ac-HE40

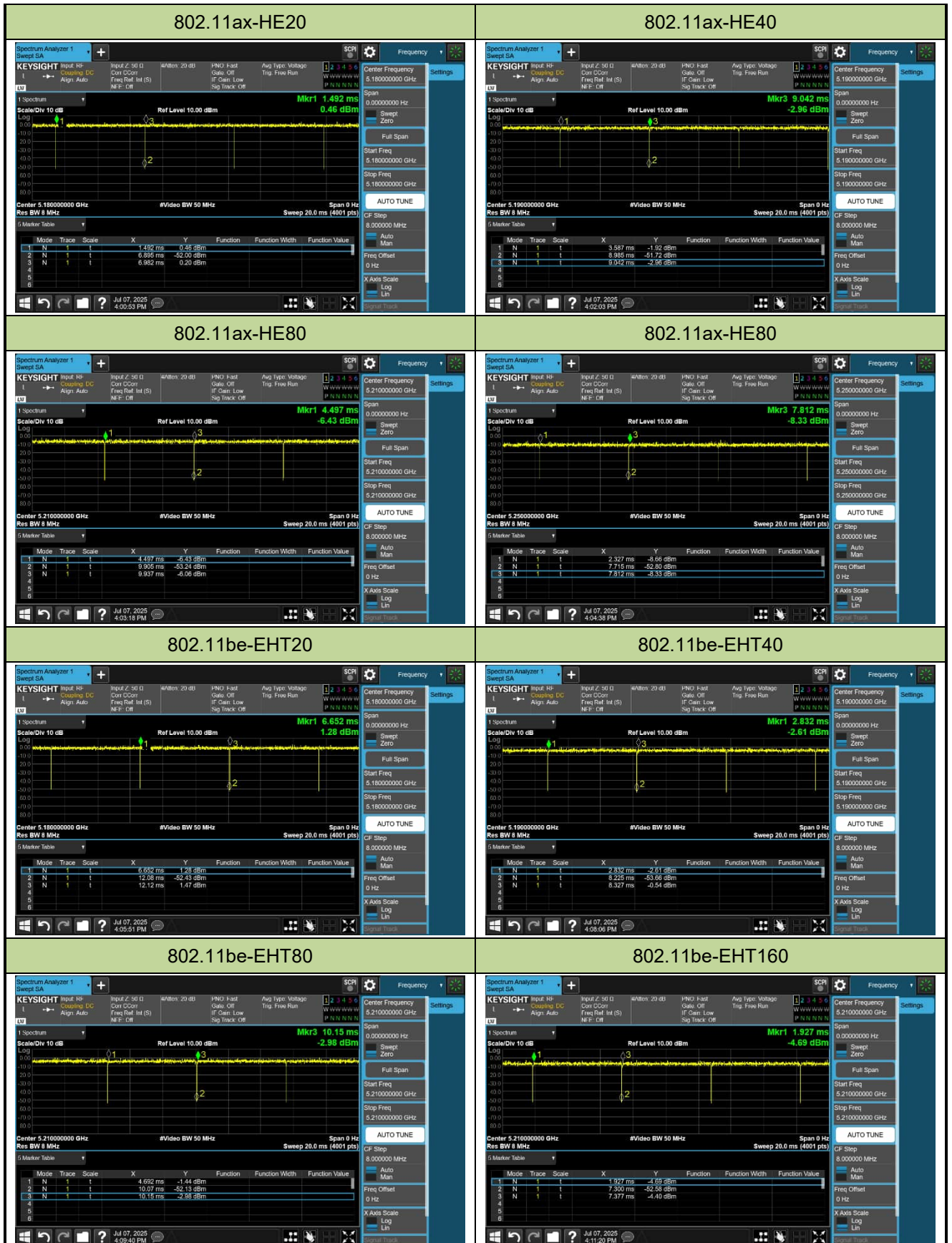


802.11ac-HE80

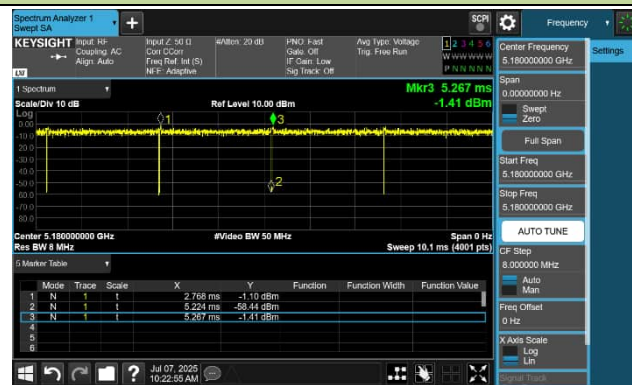


802.11ac-HE160

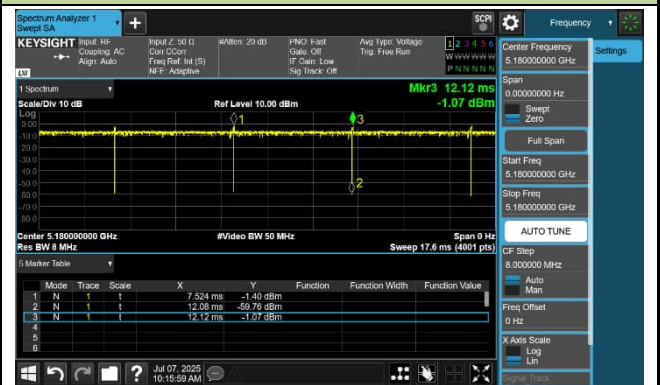




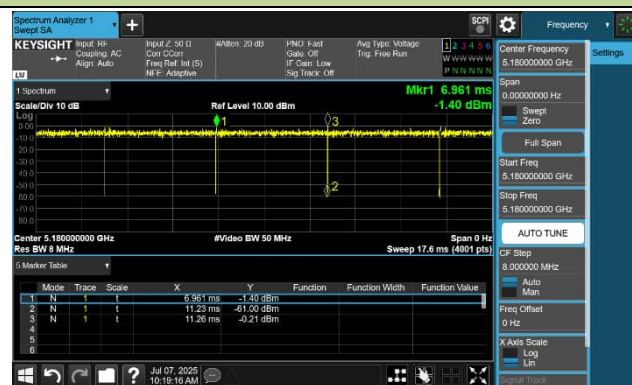
802.11be-EHT20_26 Tone_RU4



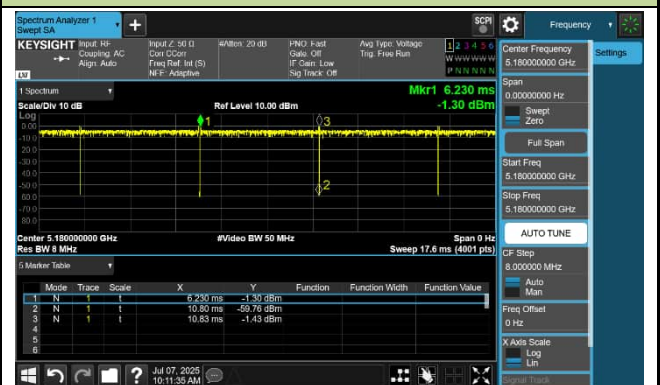
802.11be-EHT20_52 Tone_RU75



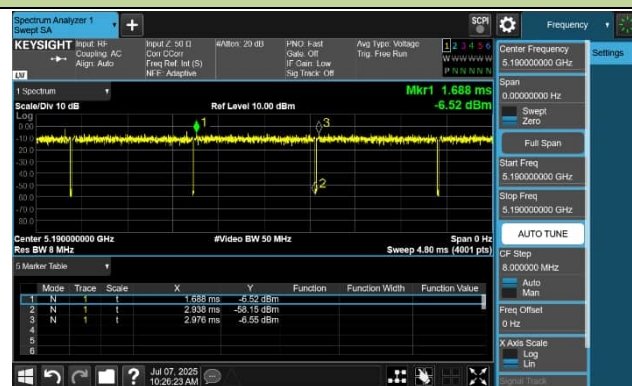
802.11be-EHT20_106 Tone_RU106



802.11be-EHT20_242 Tone_RU122



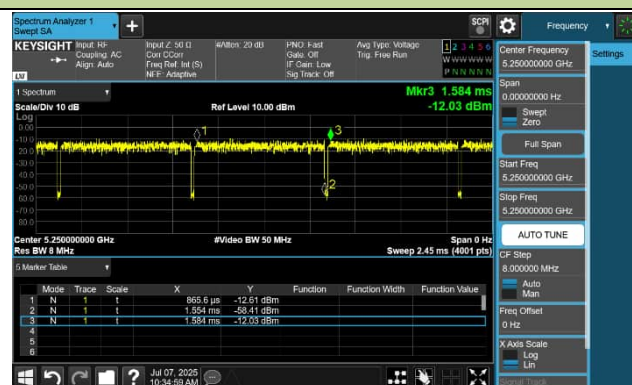
802.11be-EHT40_484 Tone_RU130

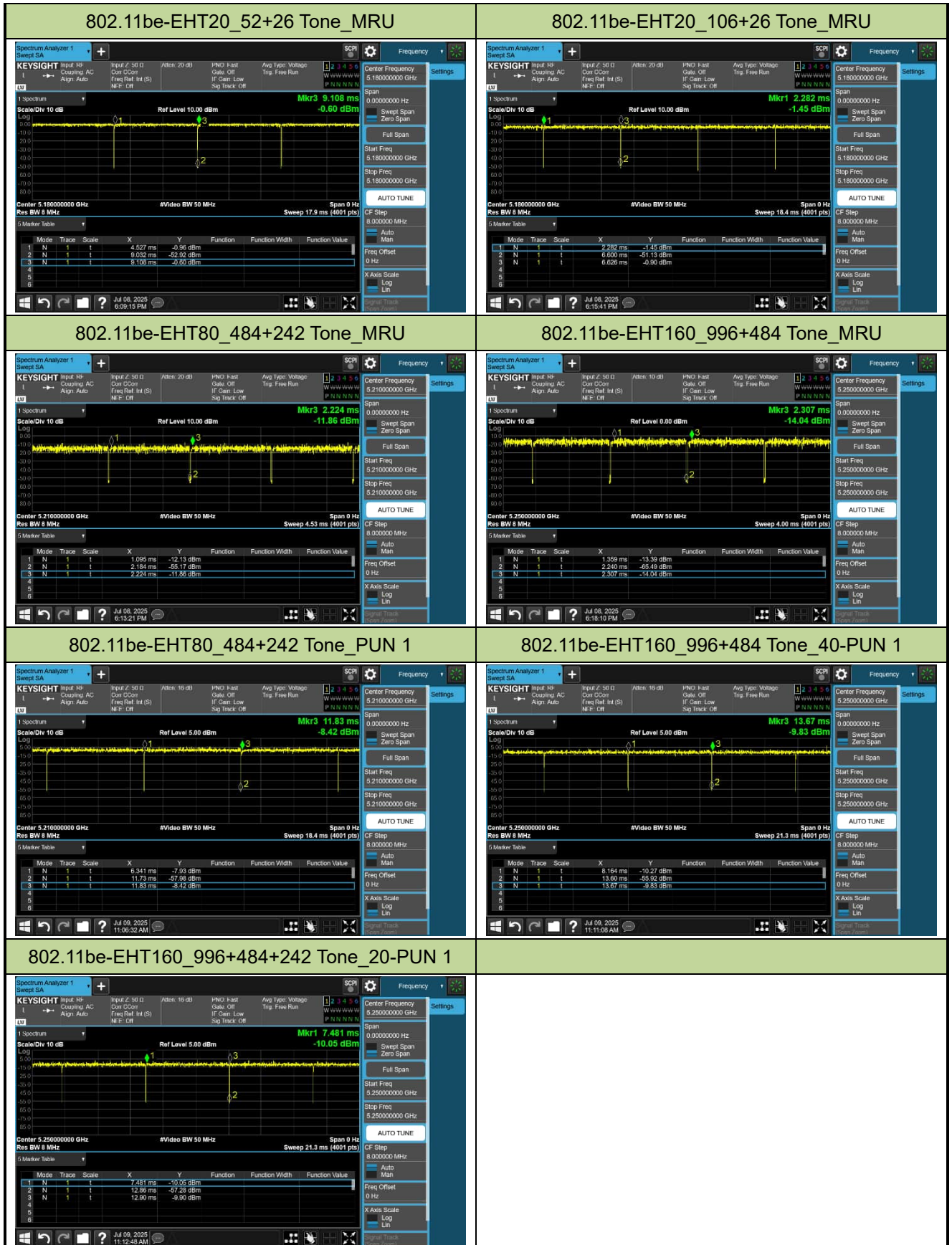


802.11be-EHT80_996 Tone_RU134



802.11be-EHT160_1992 Tone_RU136





2.11. Test Configuration

The device was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.12. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.13. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlets supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement.

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50 Ω /50 μ H Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remotecontrolled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. 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.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2026/4/14
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2026/3/4
Cable	Rosnol	N1C50-RG400-B 1C50-500CM	MRTTWE00013	1 year	2026/6/13

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2026/4/16
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00086	1 year	2025/11/5
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2026/5/14
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2026/5/12
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2026/3/27
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2026/3/20
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2026/3/4
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2025/9/20
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2026/6/24
Cable	HUBERSUHNER	EMC105-NM-NM -3000	MRTTWE00035	1 year	2026/6/24
Temperature/Humidity Meter	TFA	35.1083	MRTTWA00032	1 year	2026/6/5

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2025/9/24
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2026/7/14
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2026/3/11
Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2026/7/3

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software

6. MEASUREMENT UNCERTAINTY

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

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 150kHz~30MHz: $\pm 2.53\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz ~ 1GHz: $\pm 4.25\text{dB}$ 1GHz ~ 40GHz: $\pm 4.45\text{dB}$
Conducted Power (Carrier Power / Power Density)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 2.65\text{ dB}$
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 3.3\%$
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.82^\circ\text{C} / \pm 3\%$
Frequency Error
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 78.4\text{Hz}$

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Bandwidth	N/A	Conducted	Pass	Section 7.2
15.407(e)	6dB Bandwidth	$\geq 500\text{kHz}$		Pass	Section 7.3
15.407(a)(1)(ii), (2), (3)	Maximum Conducted Output Power	Refer to section 7.4		Pass (21.46dBm @avg)	Section 7.4
15.407(h)(1)	Transmit Power Control	$\leq 24\text{ dBm}$		Pass	Section 7.5
15.407(a)(1)(ii), (2), (3), (12)	Peak Power Spectral Density	Refer to section 7.6		Pass	Section 7.6
15.407(g)	Frequency Stability	N/A		Pass	Section 7.7
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	Refer to Section 7.8	Radiated	PASS (59.79dBuV/m@Peak)	Section 7.8
15.205, 15.209 15.407(b)(8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restrictedbands must meet theradiated limits detailed in15.209		PASS (53.63dBuV/m@Avg)	Section 7.9
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.10

Notes:

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

7.2. 26dB Bandwidth Measurement

7.2.1. Test Limit

N/A

7.2.2. Test Procedure used

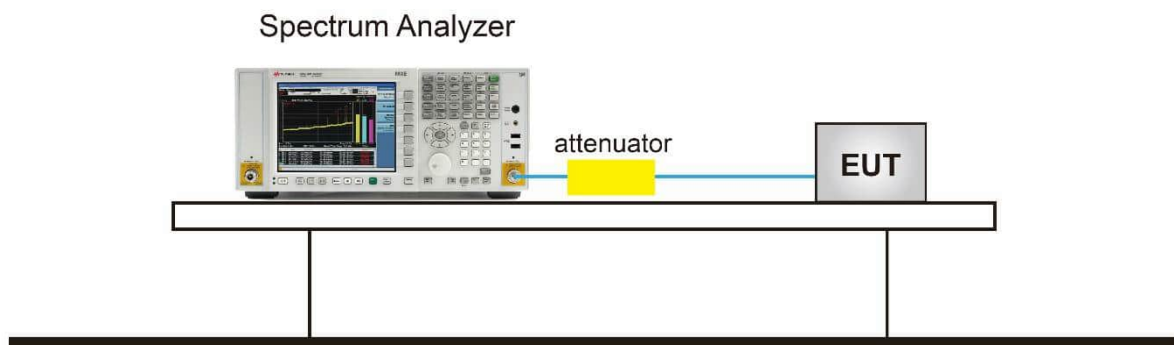
K DB 789033 D02v02r01- Section II)C.1) (26dB Bandwidth)

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

7.2.3. Test Setting

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. $VBW \geq 3 \times RBW$.
4. Detector = Peak.
5. Trace mode = max hold.

7.2.4. Test Setup



7.2.5.Test Result

Product	Mobile Computer	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/7/18

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 7					
802.11a	6Mbps	36	5180	22.57	16.744
802.11a	6Mbps	40	5200	21.02	16.697
802.11a	6Mbps	48	5240	21.95	16.804
802.11a	6Mbps	52	5260	21.24	16.701
802.11a	6Mbps	60	5300	21.19	16.708
802.11a	6Mbps	64	5320	22.10	16.623
802.11a	6Mbps	100	5500	20.82	16.632
802.11a	6Mbps	116	5580	21.31	16.651
802.11a	6Mbps	140	5700	22.01	16.699
802.11a	6Mbps	144	5720	21.44	16.624
802.11a	6Mbps	149	5745	21.88	16.651
802.11a	6Mbps	157	5785	21.35	16.655
802.11a	6Mbps	165	5825	21.71	16.631
802.11ac-VHT20	MCS0	36	5180	22.72	17.868
802.11ac-VHT20	MCS0	40	5200	22.49	17.936
802.11ac-VHT20	MCS0	48	5240	22.50	17.900
802.11ac-VHT20	MCS0	52	5260	22.50	17.934
802.11ac-VHT20	MCS0	60	5300	22.44	17.847
802.11ac-VHT20	MCS0	64	5320	22.10	17.768
802.11ac-VHT20	MCS0	100	5500	22.62	17.744
802.11ac-VHT20	MCS0	116	5580	22.33	17.724
802.11ac-VHT20	MCS0	140	5700	22.75	17.755
802.11ac-VHT20	MCS0	144	5720	22.12	17.702
802.11ac-VHT20	MCS0	149	5745	22.70	17.761
802.11ac-VHT20	MCS0	157	5785	23.10	17.761
802.11ac-VHT20	MCS0	165	5825	22.44	17.753

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 7					
802.11ac-VHT40	MCS0	38	5190	42.00	36.213
802.11ac-VHT40	MCS0	46	5230	43.05	36.183
802.11ac-VHT40	MCS0	54	5270	43.07	36.142
802.11ac-VHT40	MCS0	62	5310	43.87	36.269
802.11ac-VHT40	MCS0	102	5510	44.22	36.408
802.11ac-VHT40	MCS0	110	5550	43.14	36.321
802.11ac-VHT40	MCS0	134	5670	42.61	36.386
802.11ac-VHT40	MCS0	142	5710	42.63	36.390
802.11ac-VHT40	MCS0	151	5755	42.78	36.396
802.11ac-VHT40	MCS0	159	5795	43.56	36.352
802.11ac-VHT80	MCS0	42	5210	86.99	75.280
802.11ac-VHT80	MCS0	58	5290	85.09	75.413
802.11ac-VHT80	MCS0	106	5530	87.18	75.852
802.11ac-VHT80	MCS0	122	5610	85.68	75.742
802.11ac-VHT80	MCS0	138	5690	86.45	75.818
802.11ac-VHT80	MCS0	155	5775	86.29	75.651
802.11ac-VHT160	MCS0	50	5250	171.5	155.37
802.11ac-VHT160	MCS0	114	5570	172.8	155.75
802.11be-EHT20	MCS0	36	5180	21.93	19.011
802.11be-EHT20	MCS0	40	5200	22.55	19.008
802.11be-EHT20	MCS0	48	5240	21.34	19.104
802.11be-EHT20	MCS0	52	5260	21.61	19.026
802.11be-EHT20	MCS0	60	5300	22.29	18.993
802.11be-EHT20	MCS0	64	5320	21.90	18.963
802.11be-EHT20	MCS0	100	5500	21.93	18.909
802.11be-EHT20	MCS0	116	5580	21.64	18.888
802.11be-EHT20	MCS0	140	5700	22.61	18.907
802.11be-EHT20	MCS0	144	5720	22.37	18.913
802.11be-EHT20	MCS0	149	5745	22.33	18.884
802.11be-EHT20	MCS0	157	5785	22.65	18.896
802.11be-EHT20	MCS0	165	5825	22.59	18.915

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 7					
802.11 be-EHT40	MCS0	38	5190	41.80	37.722
802.11 be-EHT40	MCS0	46	5230	41.18	37.662
802.11 be-EHT40	MCS0	54	5270	41.60	37.760
802.11 be-EHT40	MCS0	62	5310	42.02	37.883
802.11 be-EHT40	MCS0	102	5510	41.84	37.913
802.11 be-EHT40	MCS0	110	5550	42.72	37.904
802.11 be-EHT40	MCS0	134	5670	41.85	37.846
802.11 be-EHT40	MCS0	142	5710	42.36	37.868
802.11 be-EHT40	MCS0	151	5755	42.66	37.880
802.11 be-EHT40	MCS0	159	5795	42.34	37.880
802.11be-EHT80	MCS0	42	5210	82.23	76.811
802.11be-EHT80	MCS0	58	5290	81.31	77.156
802.11be-EHT80	MCS0	106	5530	86.09	77.280
802.11be-EHT80	MCS0	122	5610	82.61	77.311
802.11be-EHT80	MCS0	138	5690	82.28	77.305
802.11be-EHT80	MCS0	155	5775	83.12	77.436
802.11be-EHT 160	MCS0	50	5250	167.3	156.91
802.11be-EHT 160	MCS0	114	5570	170.2	157.20

Test Mode	RU Size	RU Index	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 7						
802.11be-EHT20	26 Tone	RU 0	36	5180	18.65	7.657
802.11be-EHT20		RU 8	64	5320	16.62	3.491
802.11be-EHT20	26 Tone	RU 0	100	5500	15.25	5.919
802.11be-EHT20		RU 8	140	5700	18.19	8.262
802.11be-EHT20	26 Tone	RU 0	149	5745	18.50	5.685
802.11be-EHT20		RU 8	165	5825	18.53	6.650
802.11be-EHT20	52 Tone	RU 74	36	5180	13.70	6.396
802.11be-EHT20		RU 77	64	5320	16.85	9.060
802.11be-EHT20	52 Tone	RU 74	100	5500	18.74	6.270
802.11be-EHT20		RU 77	140	5700	17.41	5.435
802.11be-EHT20	52 Tone	RU 74	149	5745	19.29	5.267
802.11be-EHT20		RU 77	165	5825	18.64	10.390
802.11be-EHT20	106 Tone	RU 106	36	5180	18.16	8.551
802.11be-EHT20		RU 107	64	5320	16.84	13.902
802.11be-EHT20	106 Tone	RU 106	100	5500	18.13	9.853
802.11be-EHT20		RU 107	140	5700	19.33	8.970
802.11be-EHT20	106 Tone	RU 106	149	5745	19.28	15.896
802.11be-EHT20		RU 107	165	5825	18.15	12.064
802.11be-EHT20	242 Tone	RU 122	36	5180	21.05	18.994
802.11be-EHT20		RU 122	64	5320	20.61	18.995
802.11be-EHT20	242 Tone	RU 122	100	5500	20.59	19.026
802.11be-EHT20		RU 122	140	5700	21.22	19.026
802.11be-EHT20	242 Tone	RU 122	149	5745	20.82	19.036
802.11be-EHT20		RU 122	165	5825	20.54	19.030

802.11a 26dB Bandwidth & 99% Bandwidth

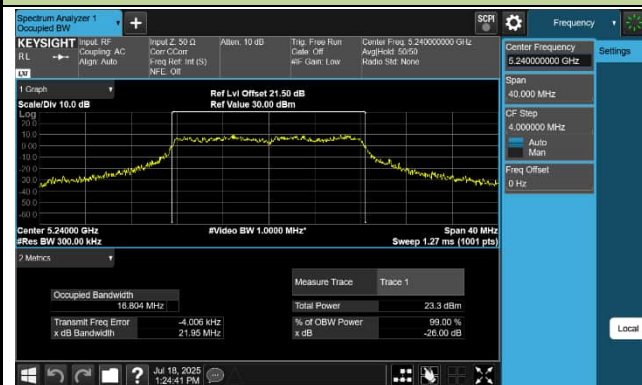
Channel 36 (5180MHz)



Channel 40 (5200MHz)



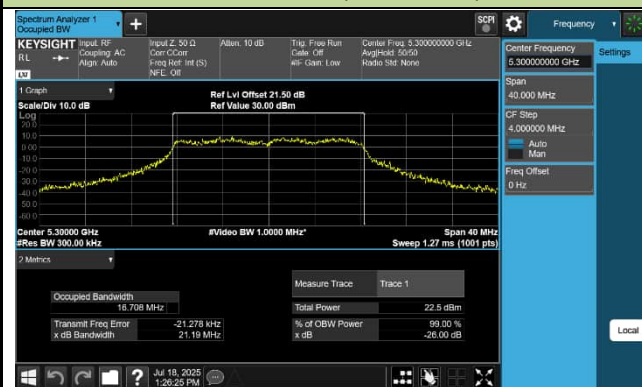
Channel 48 (5240MHz)



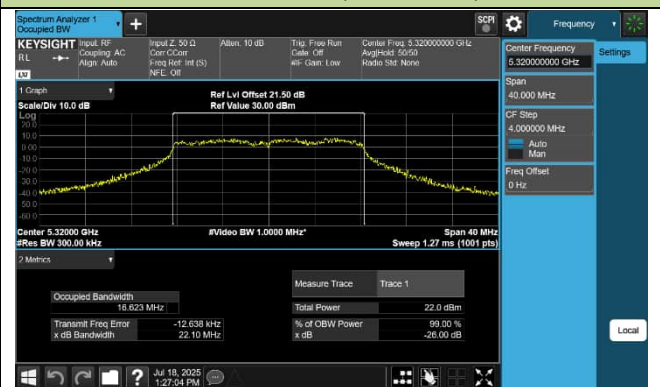
Channel 52 (5260MHz)

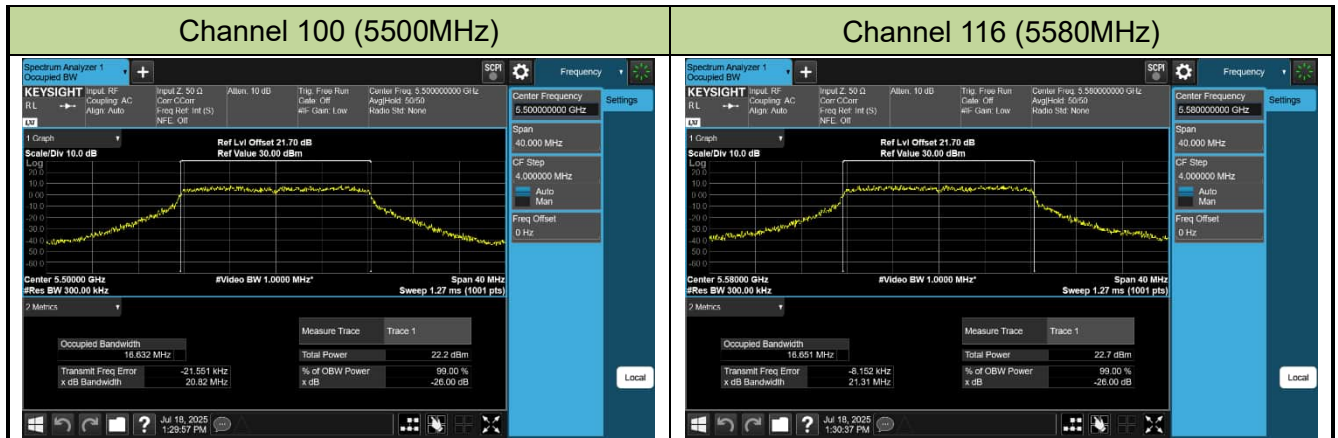


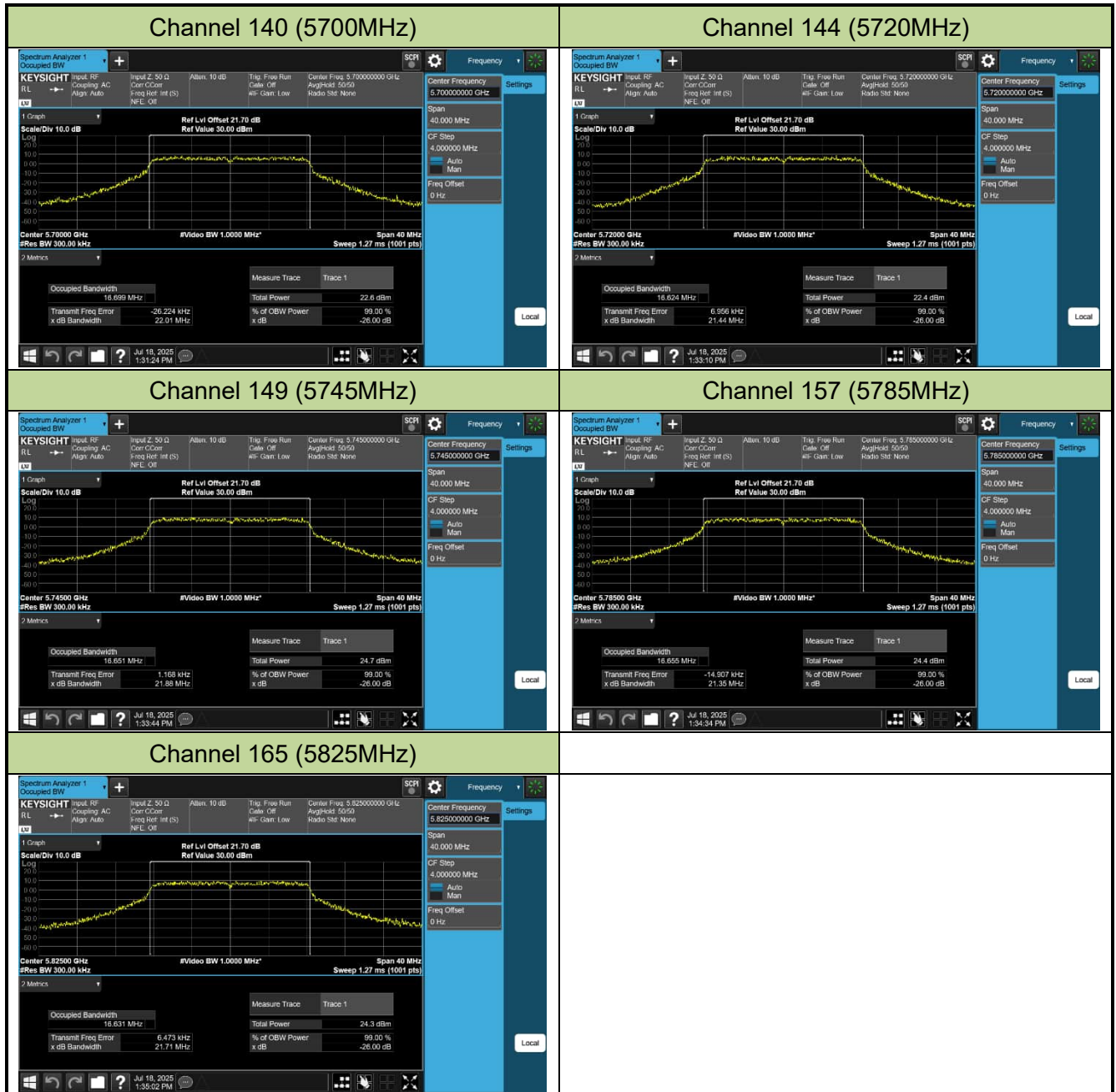
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Channel 64 (5320MHz)

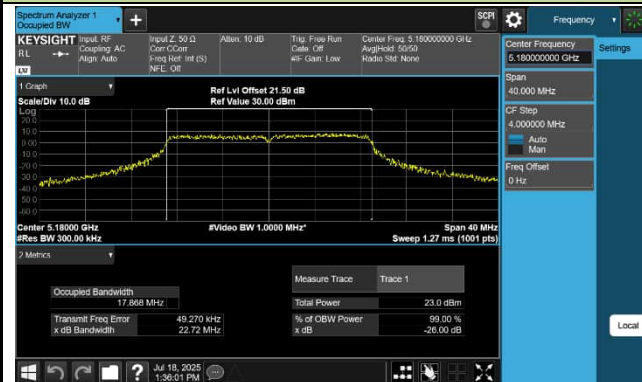






802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth

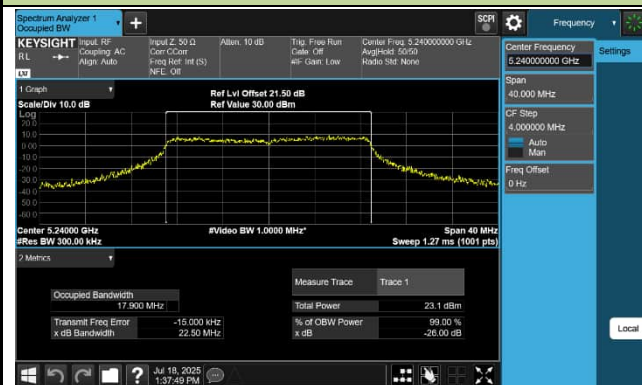
Channel 36 (5180MHz)



Channel 40 (5200MHz)



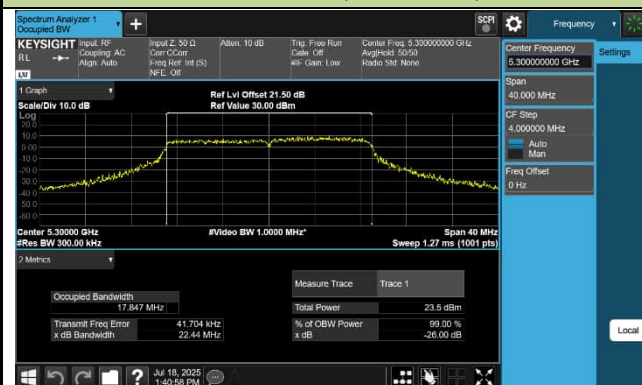
Channel 48 (5240MHz)



Channel 52 (5260MHz)

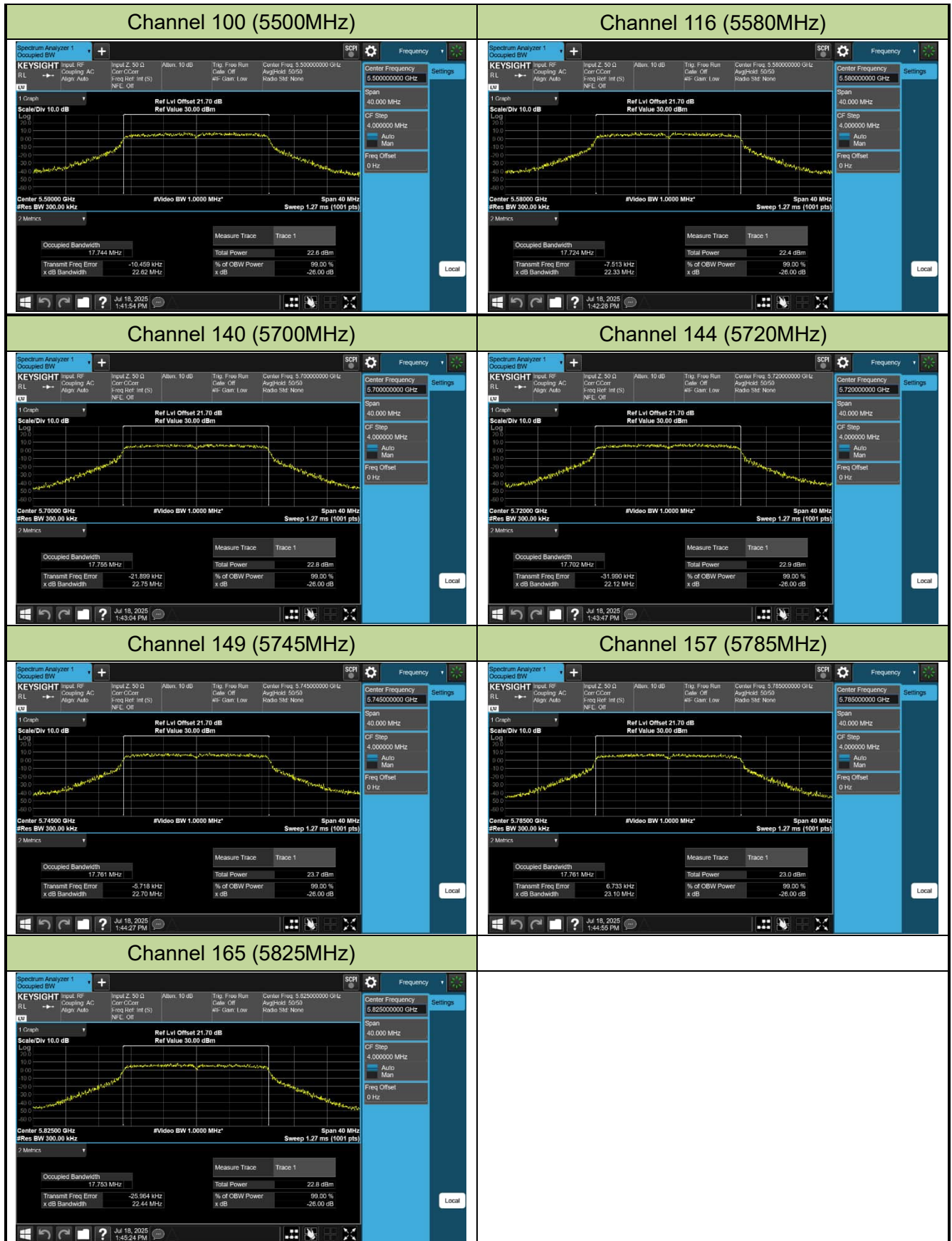


Channel 60 (5300MHz)



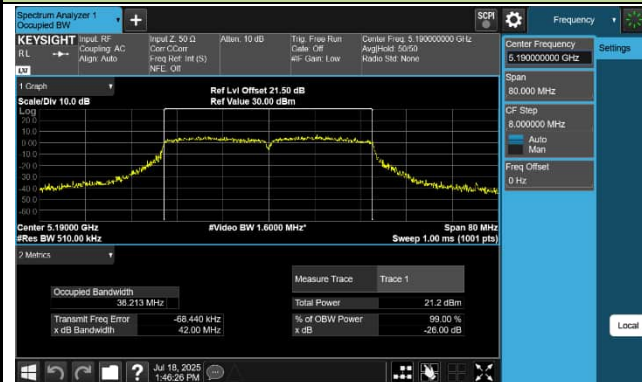
Channel 64 (5320MHz)





802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth

Channel 38 (5190MHz)



Channel 46 (5230MHz)



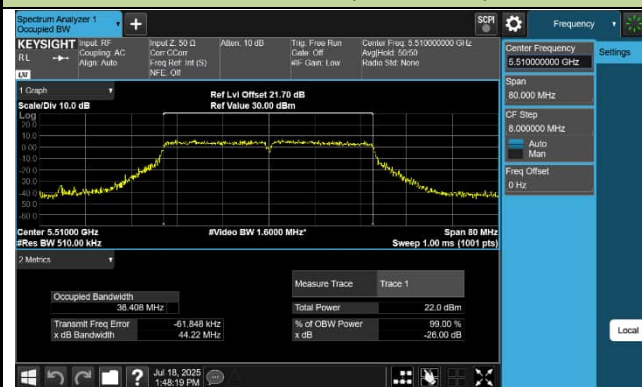
Channel 54 (5270MHz)



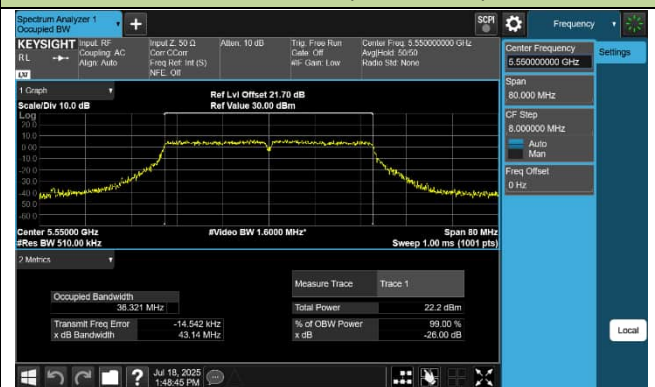
Channel 62 (5310MHz)

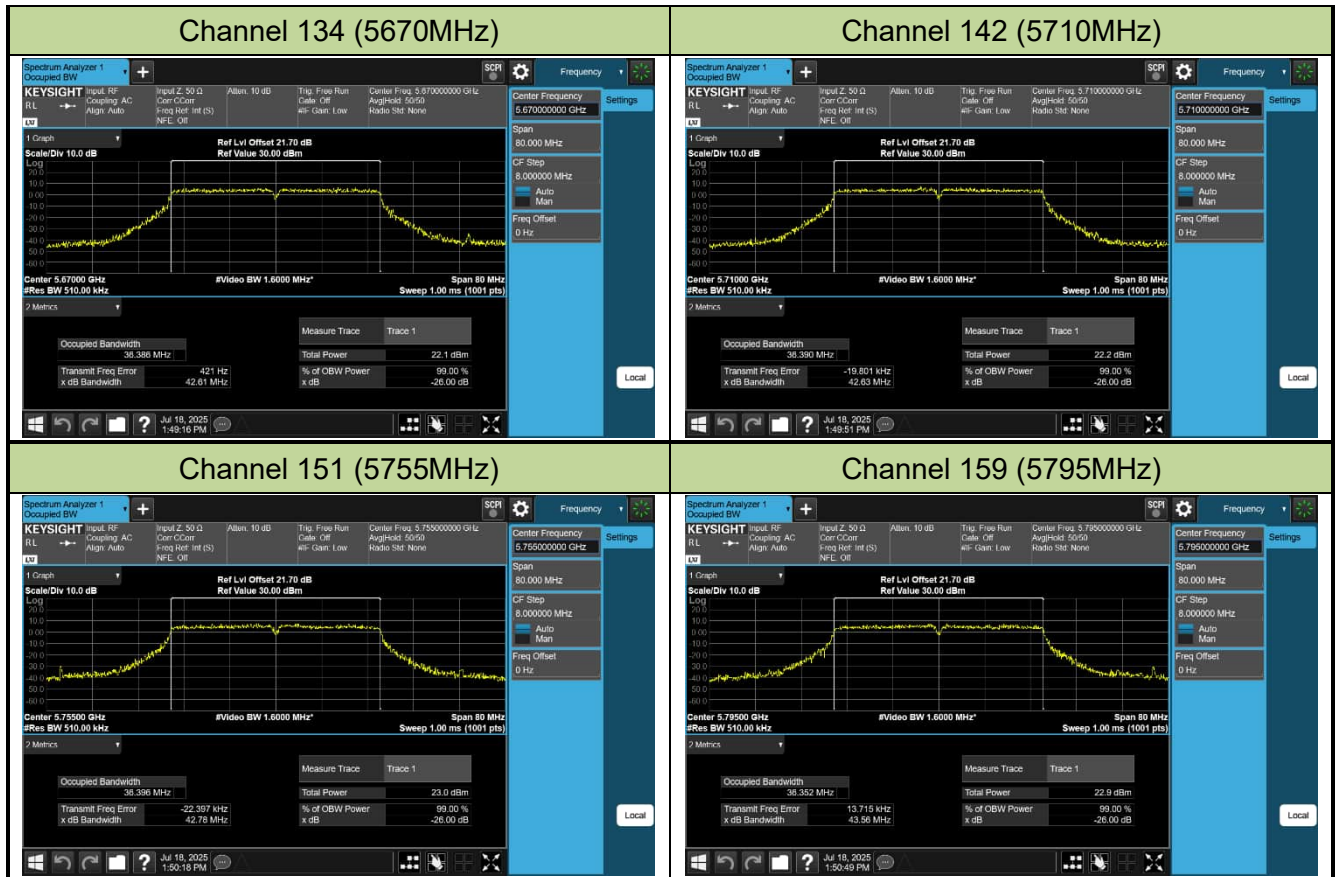


Channel 102 (5510MHz)



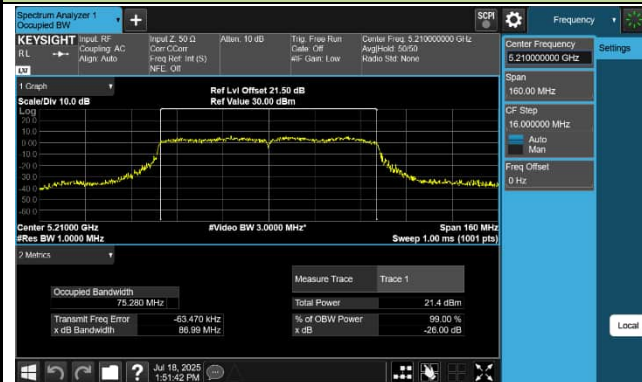
Channel 110 (5550MHz)





802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth

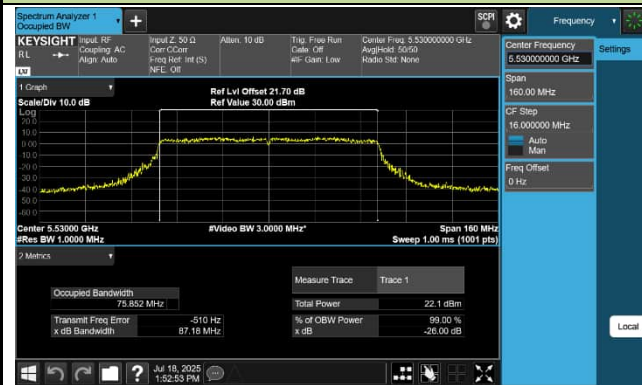
Channel 42 (5210MHz)



Channel 58 (5290MHz)



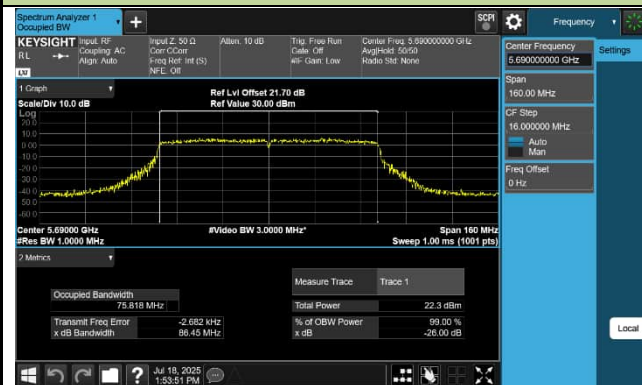
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)

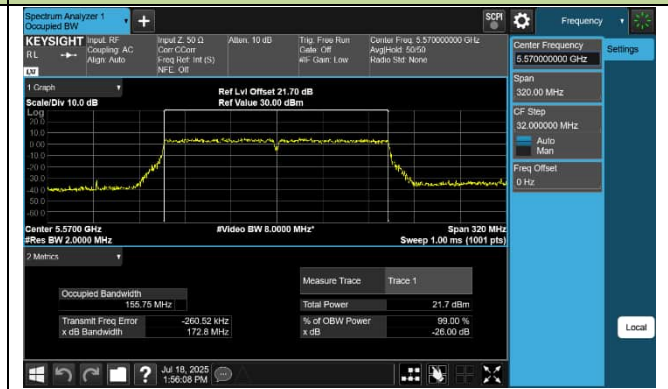


802.11ac-VHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

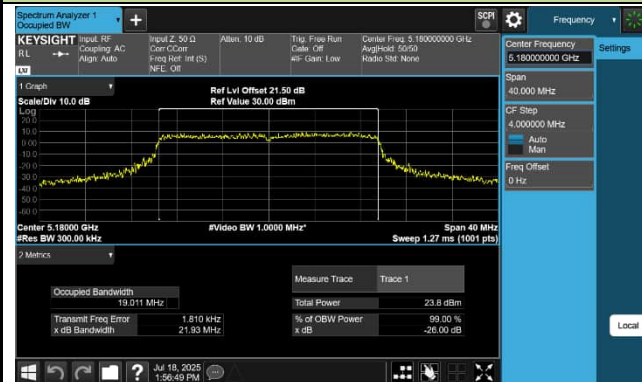


Channel 114 (5570MHz)



802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

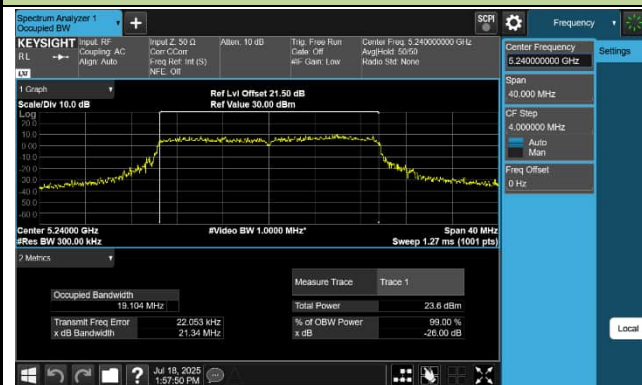
Channel 36 (5180MHz)



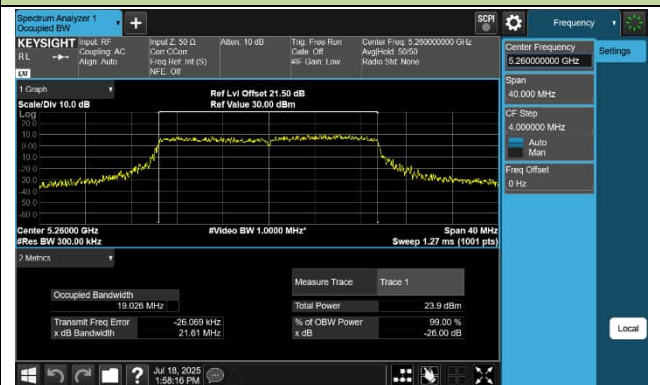
Channel 40 (5200MHz)



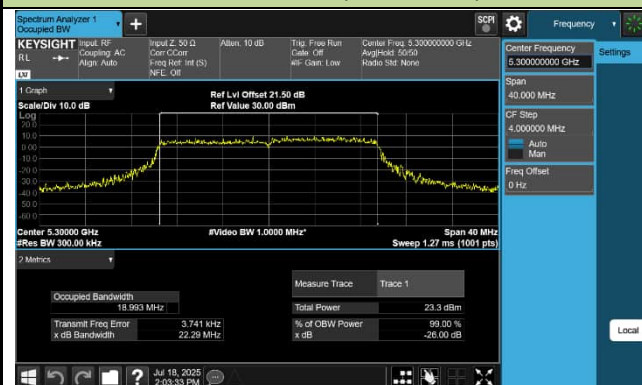
Channel 48 (5240MHz)



Channel 52 (5260MHz)

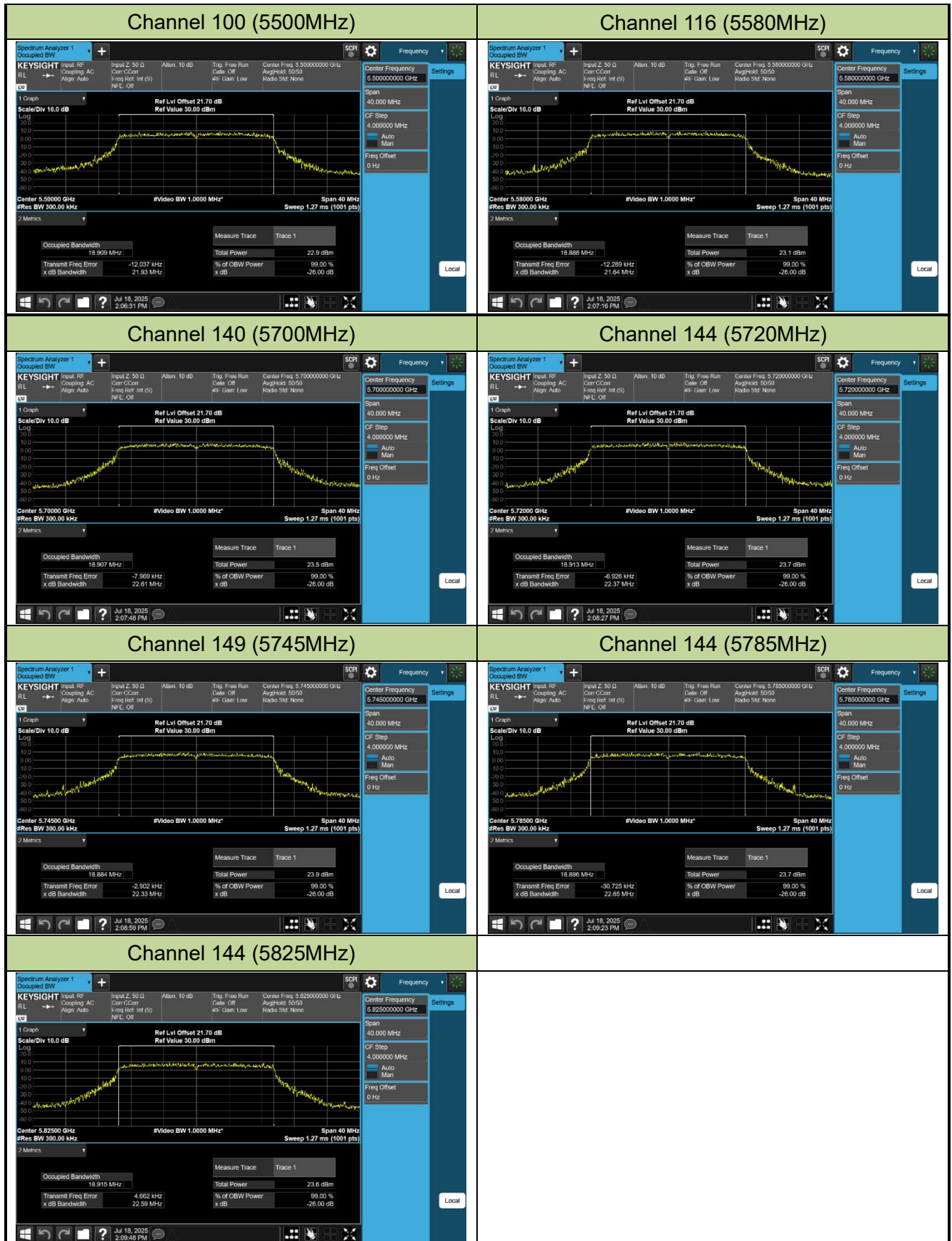


Channel 60 (5300MHz)



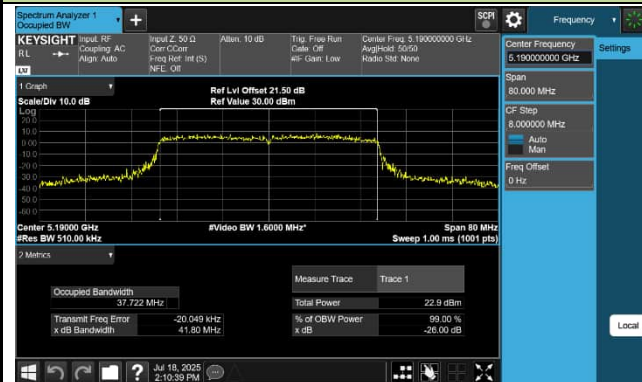
Channel 64 (5320MHz)





802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

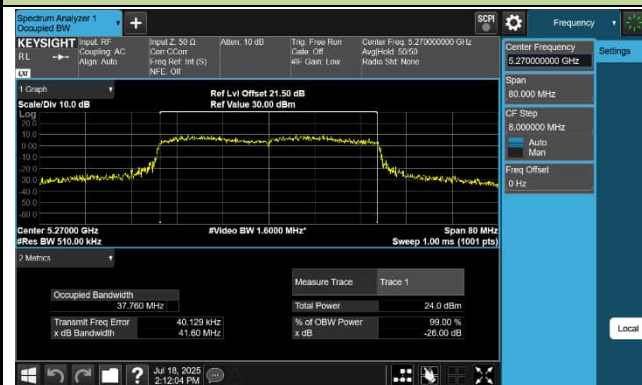
Channel 38 (5190MHz)



Channel 46 (5230MHz)



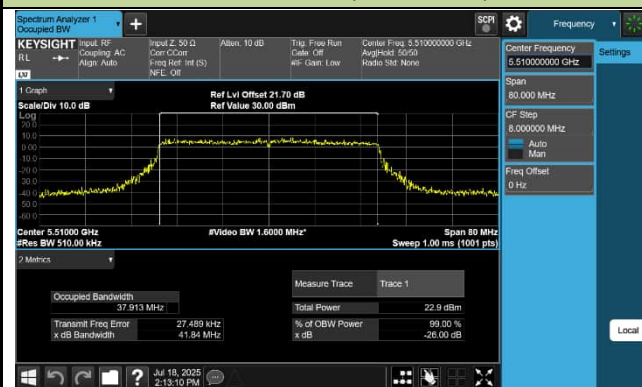
Channel 54 (5270MHz)



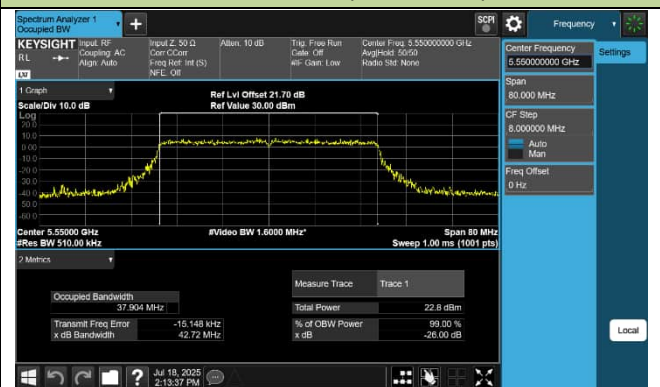
Channel 62 (5310MHz)

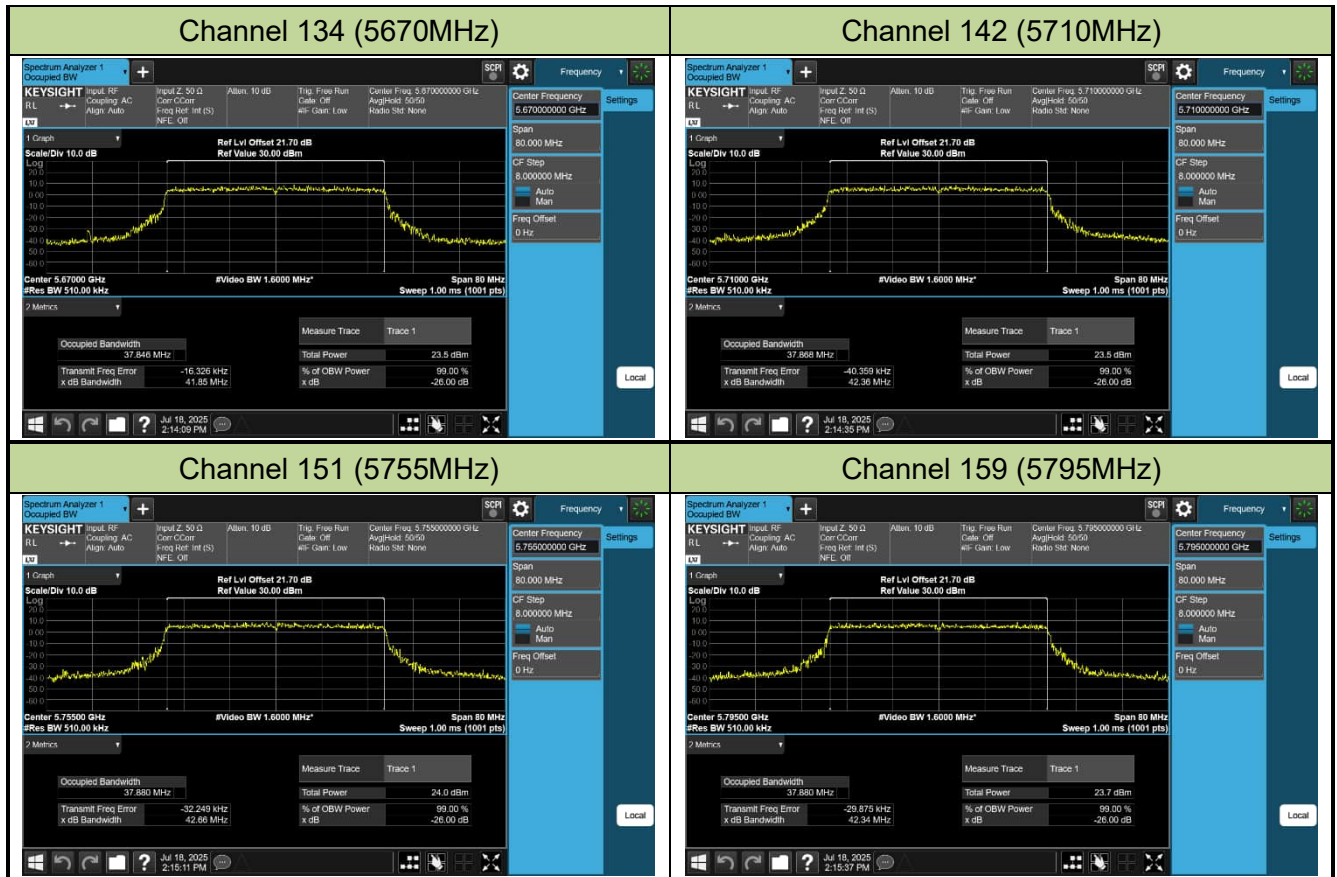


Channel 102 (5510MHz)



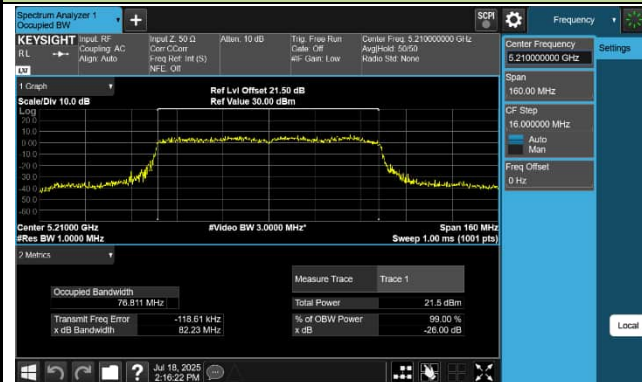
Channel 110 (5550MHz)





802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

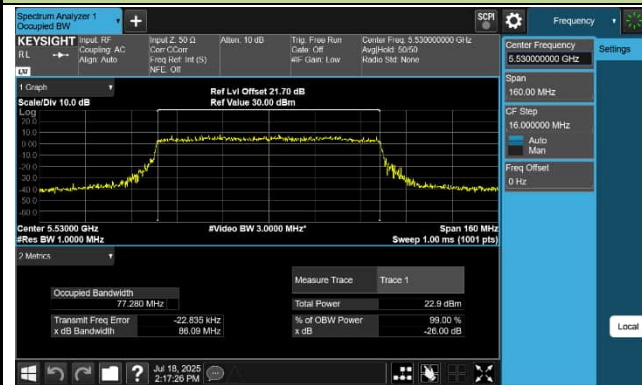
Channel 42 (5210MHz)



Channel 58 (5290MHz)



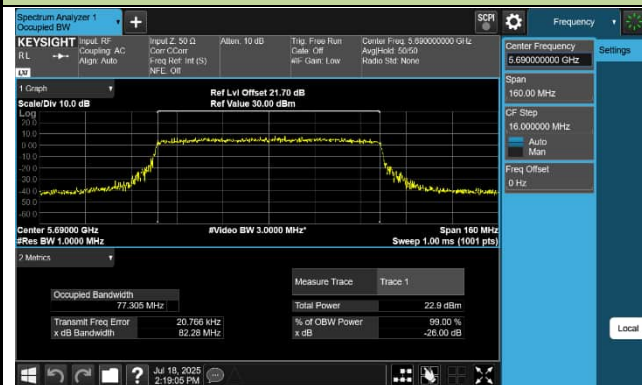
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)

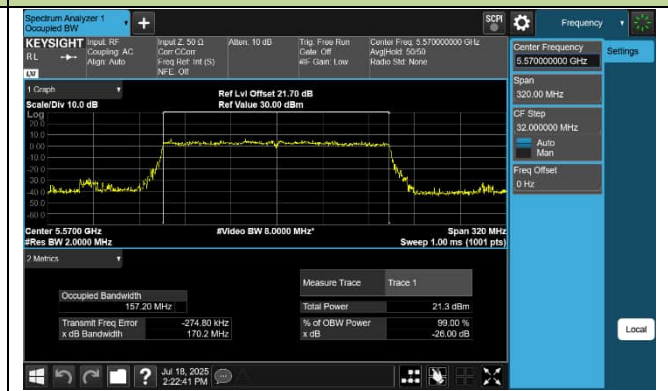


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

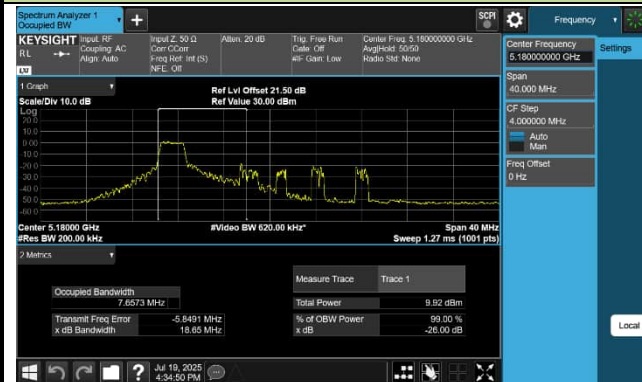


Channel 114 (5570MHz)



802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

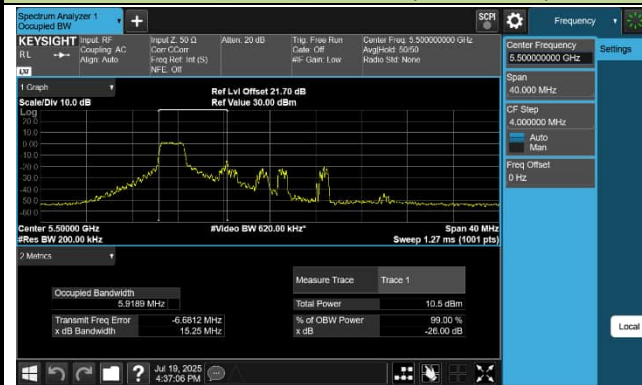
26 Tone_RU0_CH36 (5180MHz)



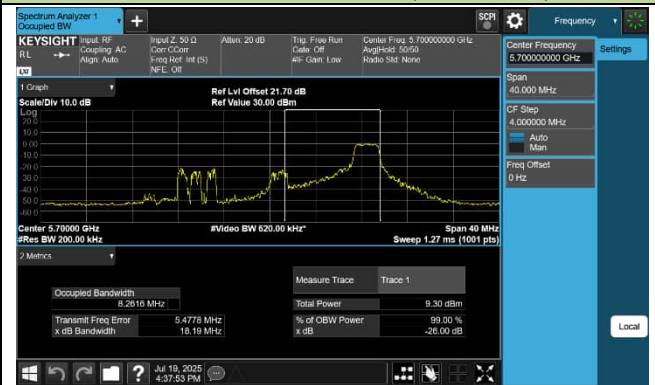
26 Tone_RU8_CH64 (5320MHz)



26 Tone_RU0_CH100 (5500MHz)



26 Tone_RU8_CH140 (5700MHz)



26 Tone_RU0_CH149 (5745MHz)



26 Tone_RU8_CH165 (5825MHz)

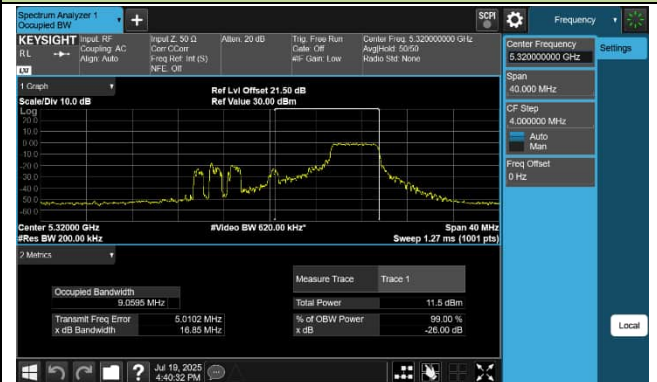


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

52 Tone_RU74_CH36 (5180MHz)



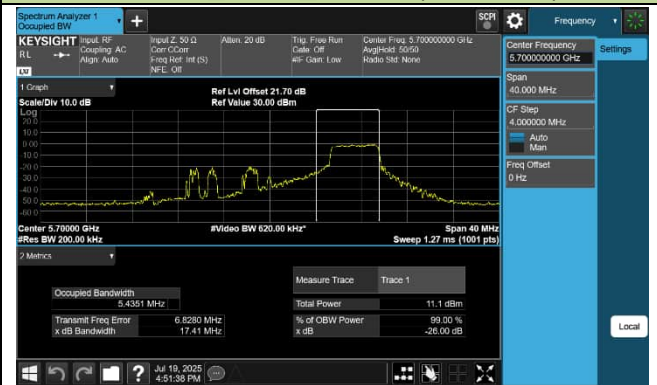
52 Tone_RU77_CH64 (5320MHz)



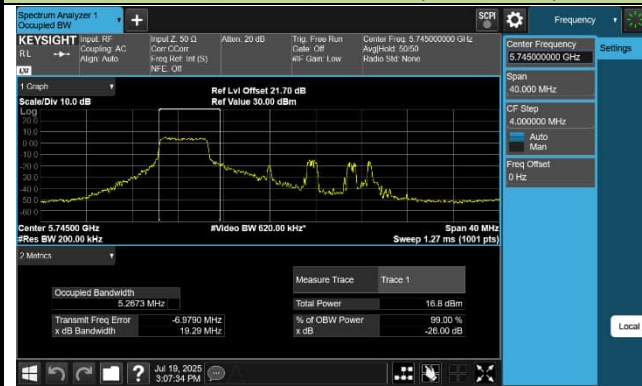
52 Tone_RU74_CH100 (5500MHz)



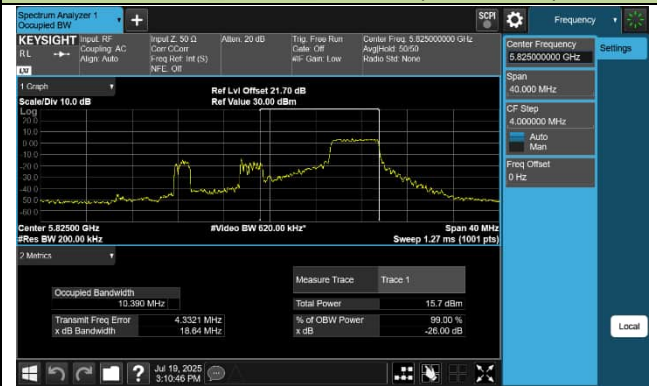
52 Tone_RU77_CH140 (5700MHz)



52 Tone_RU74_CH149 (5745MHz)

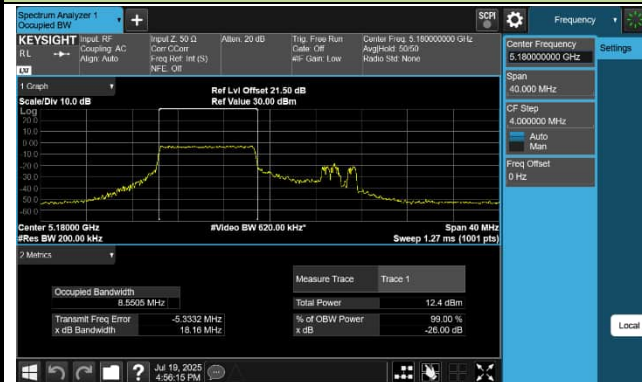


52 Tone_RU77_CH165 (5825MHz)

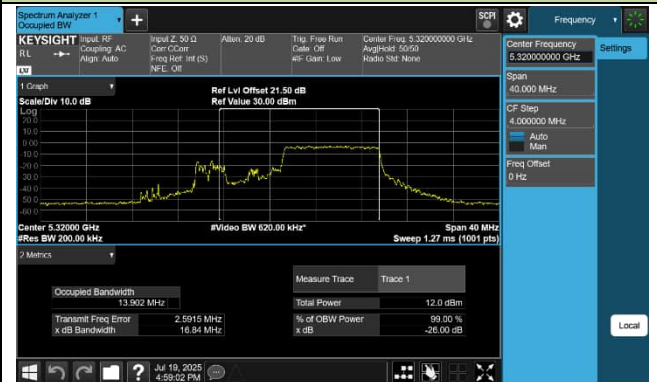


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

106 Tone_RU106_CH36 (5180MHz)



106 Tone_RU107_CH64 (5320MHz)



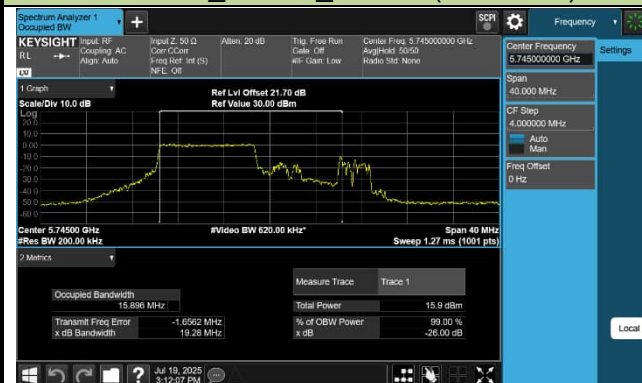
106 Tone_RU106_CH100 (5500MHz)



106 Tone_RU107_CH140 (5700MHz)



106 Tone_RU106_CH149 (5745MHz)

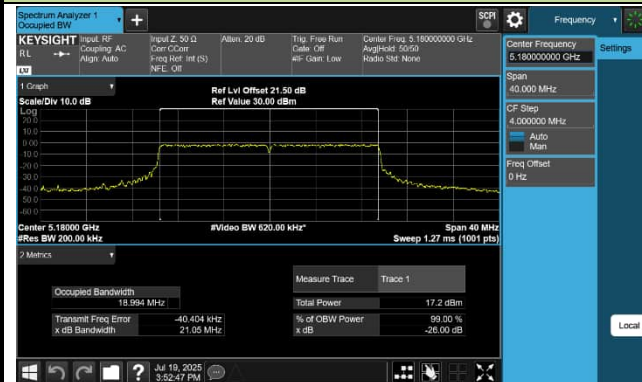


106 Tone_RU107_CH165 (5825MHz)



802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

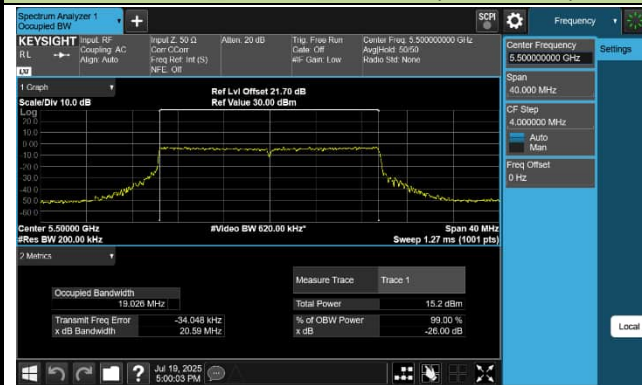
242 Tone_RU122_CH36 (5180MHz)



242 Tone_RU122_CH64 (5320MHz)



242 Tone_RU122_CH100 (5500MHz)



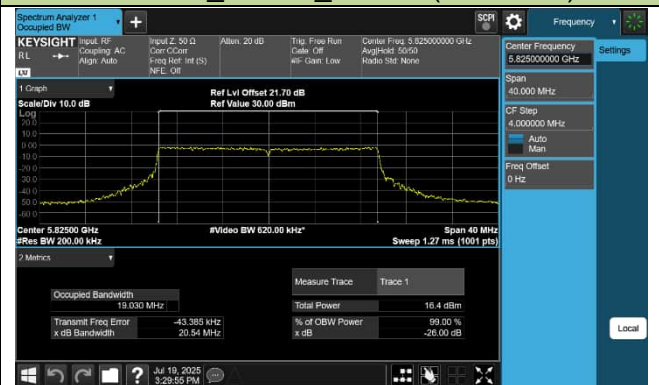
242 Tone_RU122_CH140 (5700MHz)



242 Tone_RU122_CH149 (5745MHz)



242 Tone_RU122_CH165 (5825MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

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

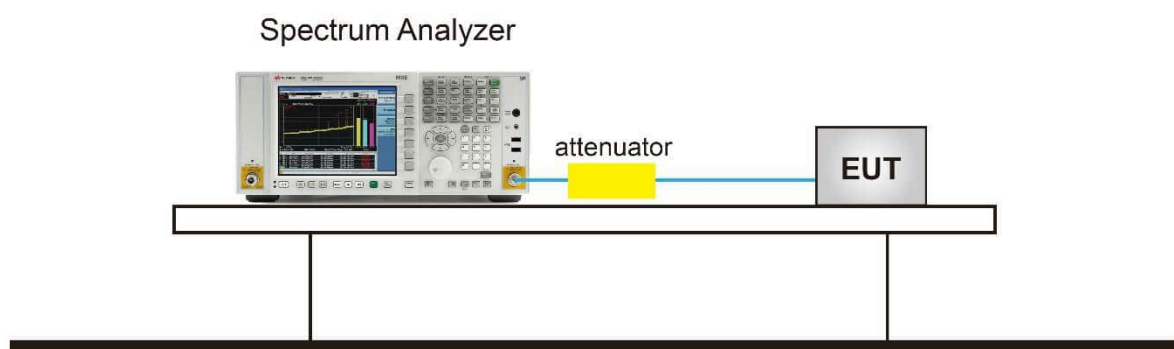
7.3.2. Test Procedure used

KDB 789033 D02v02r01- Section C.2

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $3 \times$ 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.

7.3.4. Test Setup



7.3.5. Test Result

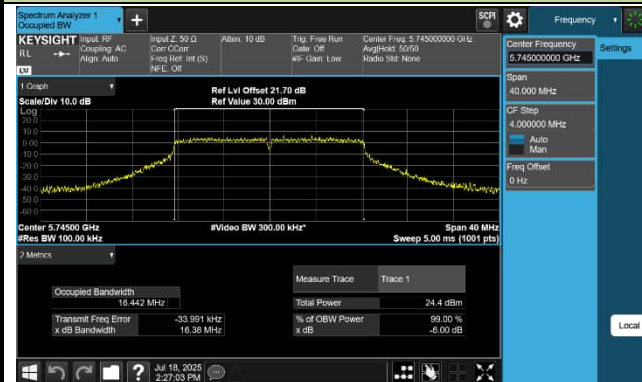
Product	Mobile Computer	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/7/18~2025/7/19

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 7						
802.11a	6Mbps	149	5745	16.38	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.40	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.35	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.61	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.64	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.58	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.44	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.34	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.35	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	18.97	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	17.15	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	18.20	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.13	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	37.68	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	77.50	≥ 0.5	Pass

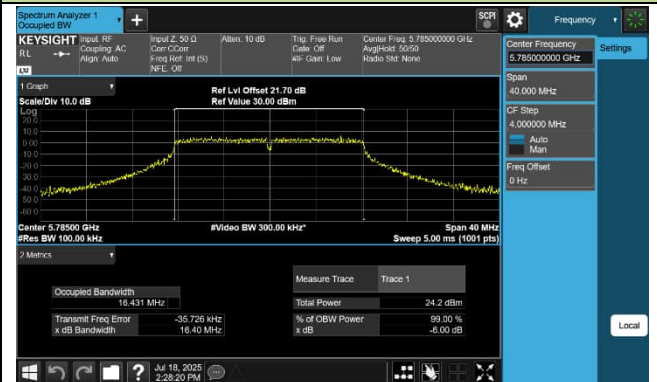
Test Mode	RU Size	RU Index	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 7							
802.11be-EHT20	26 Tone	RU 0	149	5745	2.092	≥ 0.5	Pass
802.11be-EHT20		RU 8	165	5825	2.088	≥ 0.5	Pass
802.11be-EHT20	52 Tone	RU 74	149	5745	4.115	≥ 0.5	Pass
802.11be-EHT20		RU 77	165	5825	4.119	≥ 0.5	Pass
802.11be-EHT20	106 Tone	RU 106	149	5745	8.33	≥ 0.5	Pass
802.11be-EHT20		RU 107	165	5825	8.35	≥ 0.5	Pass
802.11be-EHT20	242 Tone	RU 122	149	5745	19.19	≥ 0.5	Pass
802.11be-EHT20		RU 122	165	5825	19.19	≥ 0.5	Pass

802.11a 6dB Bandwidth

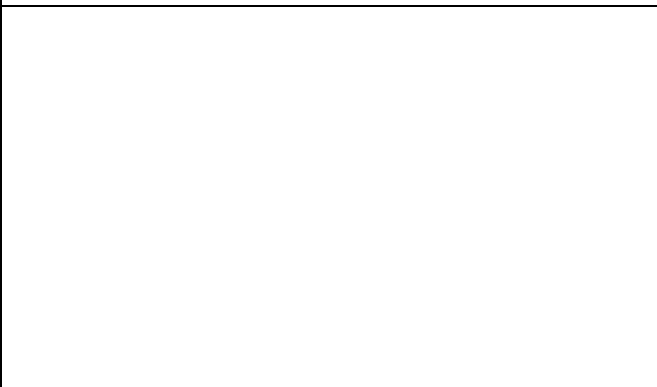
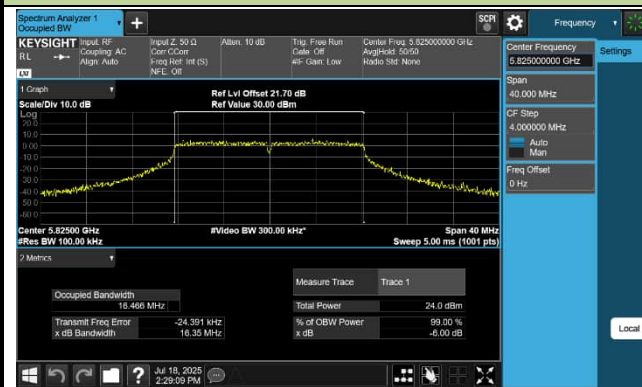
Channel 149 (5745MHz)



Channel 157 (5785MHz)

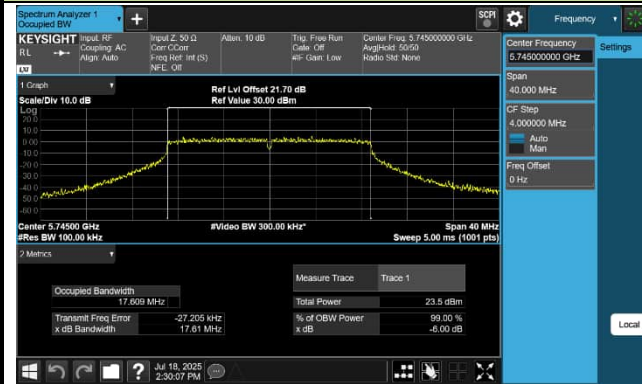


Channel 165 (5825MHz)



802.11ac-VHT20 6dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

