



# REPORT

For

## **Avari Wireless Inc.**

1400 112th Ave SE, Ste 100  
Bellevue, WA 98004, USA

Date: 2025-06-18  
Report No.: 20.01.22476-1  
Revision No.: 0  
Project No.: 22476  
Equipment: Tri-Band Medium Power Remote Unit  
Model No.: RU37-3-PS-BHH-21-1N-A0-2  
FCC ID: 2BA6ERU373PSBHH21A



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Prepared by: LabTest Certification Inc.  
Date Issued: 2025-06-19  
Project No.: 22476

Client: Avari Wireless Inc.  
Report No.: 20.01.22476-1  
Revision No.: 0

## EMC TEST REPORT

Report Reference No.....:	20.01.22476-1	
Report Revision History.....:	Rev. 0	
Compiled by (+ signature).....	Jack Qin	
Approved by (+ signature).....	Zara Vali	
Date of issue.....:	2025-06-19	
Total number of pages .....	124	
FCC Site Registration No.:	721268	
IC Site Registration No.:	5970A-2	
Testing Laboratory.....:	LabTest Certification Inc.	
Address .....	Unit 3128-20800 Westminster HWY, Richmond, B.C. V6V 2W3 Canada	
Applicant's name.....:	Avari Wireless Inc.	
Address .....	1400 112th Ave SE, Ste 100 Bellevue, WA 98004	
Manufacture's Name .....	Avari Wireless Inc.	
Address .....	1400 112th Ave SE, Ste 100 Bellevue, WA 98004	
Test specification:		
Standards .....	<ul style="list-style-type: none"><li>➤ RSS-119, Issue 12 2015, Amendment (April 1, 2022)</li><li>➤ RSS-Gen, Issue 5 2018</li><li>➤ RSS-131, Issue 4 2022</li><li>➤ FCC Part 90</li><li>➤ FCC Part 2</li></ul>	
Test procedure .....	<ul style="list-style-type: none"><li>➤ ANSI C63.26: 2015</li><li>➤ KDB 935210 D05, v01r04</li></ul>	
Test item description :		
Trade Mark .....	RU37™	
Model/Type reference .....	RU37-3-PS-BHH-21-1N-A0-2	
Serial Number.....:	10911153E01BE3001	
FCC ID.....:	2BA6ERU373PSBHH21A	
Possible test case verdicts:		
- test case does not apply to the test object .....	N/A	

- test object does meet the requirement .....	P (Pass)
- test object does not meet the requirement .....	F (Fail)

## Revision History

Revision	Date	Reason For Change	Author(s)
1	2025-06-19	Initial	Jack Qin

## Test Conditions

General Conditions .....	<div><div>1. This report is only referred to the item that has undergone the test.</div><div>2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.</div><div>3. This document is only valid if complete; no partial reproduction can be made without previous written permission of LabTest.</div><div>4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of LabTest.</div></div>						
Environmental reference conditions .....	<div><div>The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.</div><div>The climatic conditions during the tests were within the following limits:</div><table><tr><td>Temperature</td><td>Humidity</td><td>Atmospheric pressure</td></tr><tr><td>15 °C – 35 °C</td><td>30 % - 60 %</td><td>86 kPa – 106 kPa</td></tr></table><div>If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.</div></div>	Temperature	Humidity	Atmospheric pressure	15 °C – 35 °C	30 % - 60 %	86 kPa – 106 kPa
Temperature	Humidity	Atmospheric pressure					
15 °C – 35 °C	30 % - 60 %	86 kPa – 106 kPa					

## Device Under Test Description

Application for .....	PS 450/450/800 Remote Unit, Tri Band Medium Power DAS
Passing Transmit Frequency .....	<b>800MHz Band:</b> 851 MHz – 869 MHz <b>UHF Band 1:</b> 450 MHz – 480 MHz <b>UHF Band 2:</b> 450 MHz – 480 MHz
Operating Transmit Frequency FCC .....	<b>800MHz Band:</b> 851 MHz – 869 MHz <b>UHF Band 1:</b> 450 MHz – 454 MHz 456 MHz – 462.5375 MHz 462.7375 MHz – 467.5375 MHz 467.7375 MHz – 480 MHz <b>UHF Band 2:</b> 450 MHz – 454 MHz 456 MHz – 462.5375 MHz 462.7375 MHz – 467.5375 MHz 467.7375 MHz – 480 MHz

Passing Receive Frequency .....	<b>800MHz Band:</b> 806 MHz – 824 MHz <b>UHF Band 1:</b> 450 MHz – 480 MHz <b>UHF Band 2:</b> 450 MHz – 480 MHz
Operating Receive Frequency FCC .....	<b>800MHz Band:</b> 806 MHz – 824 MHz <b>UHF Band 1:</b> 450 MHz – 454 MHz 456 MHz – 462.5375 MHz 462.7375 MHz – 467.5375 MHz 467.7375 MHz – 480 MHz <b>UHF Band 2:</b> 450 MHz – 454 MHz 456 MHz – 462.5375 MHz 462.7375 MHz – 467.5375 MHz 467.7375 MHz – 480 MHz
Number of Channels .....	Up to 64 channels
Rated RF Output (e.i.r.p.) .....	37 dBm
Modulation Type .....	P25 Phase I C4FM, CQPSK; P25 Phase II HDQPSK on full band of Band 800, Band 450 FM on Band 800 between 851 MHz – 869 MHz only;
Equipment mobility .....	Fixed
Operating condition .....	-40 to +50 °C
Mass of equipment (g).....	< 27,700g
Dimensions (W X D X H)	410 mm X 230 mm X 696 mm
Nominal Voltages for:	<u>48 V</u> stand-alone equipment <u>48 V</u> combined (or host) equipment
Supply Voltage:	_____ AC _____ Amps <u>48V</u> DC <u>7.1</u> Amps
If DC Power:	____ Internal Power Supply <input checked="" type="checkbox"/> External Power Supply ____ Battery <input type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Alkaline <input type="checkbox"/> Nickel-Metal Hydride <input type="checkbox"/> Lithium-Ion <input type="checkbox"/> Other

## Program details

Testing Facility by procedure:		
<input checked="" type="checkbox"/>	<b>Radiated Measurement</b>	LabTest Certification Inc.
Testing location/ address .....		Unit 3128-20800 Westminster HWY, Richmond, B.C.

		V6V 2W3 Canada
<input checked="" type="checkbox"/>	<b>Conducted Measurement:</b>	LabTest Certification Inc.
Testing location/ address .....		Unit 3128-20800 Westminster HWY, Richmond, B.C. V6V 2W3 Canada

## Description of Equipment Under Test (EUT) and Variant Models

### Description:

The RU37 450-450-800 PS is a tri-band remote unit that provides at least 5 W of output power on each band. The tri-band unit supports up to 3 bands in a sealed type 2 chassis for Class A operation. On the downlink path the RU37 PS remote receives an aggregated stream of digitized RF signals from an DMU PS, which it then converts into analog RF signals. Depending on the frequency band, the signal is amplified in the RF module and then sent out through simplex RF ports to an external filter. On the UL path the RU37 PS remote receives analog RF signals for the RF band, from an external filter. The RF signals are converted into a digital data stream and then delivered over optical fiber to an DMU PS. The RU37 PS remote also accommodates a 1 Gbps Ethernet backhaul for transporting the data from nearby IP devices such as security cameras and Wi-Fi access points. The intentional transmitter only exists in the downlink path and hence the EMC tests in this report dedicated to the downlink emission.

In order to build up a complete signal booster system, the DMU PS was connected as the Auxiliary device. The DMU PS does not have an antenna port, where the signal was injected and ejected via coaxial cables.

EUT Picture



### Variant Models:

The following variant models were not tested as part of this evaluation but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. LabTest does not make any claims of compliance for samples or variants which were not tested.

The variant models of RU37-3-PS-BHH-21-1N-A0-2 are listed as follows:

#### Tri Band

1. RU37-3-PS-BHH-21-1N-D0-2
2. RU33-3-PS-BHH-21-1N-D0-2
3. RU33-3-PS-BHH-21-1N-A0-2

#### Dual Band

Prepared by: LabTest Certification Inc.  
Date Issued: 2025-06-19  
Project No.: 22476

Client: Avari Wireless Inc.  
Report No.: 20.01.22476-1  
Revision No.: 0

1. RU37-2-PS-BH-21-1N-A0-2
2. RU33-2-PS-BH-21-1N-A0-2
3. RU37-2-PS-BH-21-1N-D0-2
4. RU33-2-PS-BH-21-1N-D0-2

Single Band

1. RU37-1-PS-B-21-1N-A0-2
2. RU37-1- PS-H-21-1N-A0-2
3. RU33-1-PS-B-21-1N-A0-2
4. RU33-1- PS-H-21-1N-A0-2
5. RU37-1-PS-B-21-1N-D0-2
6. RU37-1- PS-H-21-1N-D0-2
7. RU33-1-PS-B-21-1N-D0-2
8. RU33-1- PS-H-21-1N-D0-2

## Client Equipment Used During Test

Use*	Product Type	Manufacturer	Model	Comments
EUT	RU37, 450PS,450PS, 800 PS	Avari Wireless Inc.	RU37-3-PS-BHH-21-1N-A0-2	EUT where the RF (I/O) antenna is attached via duplexers/multiplexer when necessary.
AE1	DMU, 450PS, 450PS,800PS	Avari Wireless Inc.	VL-DMU-3-PS-BHH-1-6N-D-1F	Auxiliary equipment, which is the front end of system interfaced to Base Station.
AE2	Element Manager (DMC)	Avari Wireless Inc.	EM-1A	Auxiliary equipment provides the configuration and control interface to <i>DMU</i> and <i>RU37</i> .
AE3	Power Supply	MeanWell	HGL-480H-48	AC to DC Converter, I/P: 120VAC, 60Hz, 5.5A O/P: +48VDC, 480W

### Abbreviations:

EUT - Equipment Under Test  
AE - Auxiliary/Associated Equipment  
SIM - Simulator (Not Subjected to Test)

## Software and Firmware

Use*	Description	Version
EUT	Software installed	5.8.1-0.5859
AE1	Software installed	5.8.1-0.5859
AE2	Software installed	5.8.1-1581

### Abbreviations:

EUT - Equipment Under Test,  
AE - Auxiliary/Associated Equipment, or  
SIM - Simulator (Not Subjected to Test)

## Input/Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	DC Power Port	DC	No	No	Dual feed 48 VDC Assembly
2	4 * RF Input/Output Ports	I/O	No	No	N-Type Coaxial
3	2 * Optical Fibre I/O Ports	I/O	No	No	LC/UPC Duplex
4	2 * TP	TP	No	No	RJ-45

\*Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical  
I/O = Signal Input or Output Port (Not Involved in Process Control)  
TP = Telecommunication Ports



## Power Interface

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	48	7.1	340	DC	-	DC power port is connected to AC/DC convertor.

## EUT Operation Modes

Mode #	Description
1	UL and DL transmission and receiving ON

## EUT Configuration Modes

Mode #	Description
1	DMU maximum input threshold set to -10 dBm, uplink attenuation set to 0dB; RU37 uplink and downlink attenuation set to 0dB.

## Test Equipment Verified for function

Model #	Description	Checked Function	Results
KT-N9038A	Spectrum Analyzer	Frequency and Amplitude	Connected 50MHz and -20 dBm Ref. signal and checked OK
JB1	Antenna, 30 to 2000MHz	Checked structure	Normal – no damage
SAS-571	Antenna, 1 to 18GHz	Checked structure	Normal – no damage
KT-N5172B	Signal Generator	Frequency, Amplitude and Modulation	Within MFR Specs
KT-N9020B	Spectrum Analyzer	Frequency and Amplitude	Within MFR Specs

Test Station Photo



Test Station Cables and Loads

Model #	Manufacture	Description
3 x TM8-N1S1-60	MegaPhase	N male to SMA male coaxial cable in 60 inches
1 x 49-30-34	Aeroflex	30dB 25W attenuator

Test Station Insertion Loss

	Band 450	Band 450	Band 800
DL Transmitter	31.7 dB	31.7 dB	31.6 dB
UL Receiver	0.4 dB	0.4 dB	0.6 dB

## Result Summary

The tests indicated in Test Summary were performed on the product constructed as described below. The test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted. Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item tested. LabTest does not make any claims of compliance for samples or variants which were not tested.

The Compliance Status is a judgment based on the direct measurements and calculated highest emissions to appropriate standard limits. Measurement uncertainty values, provided on calibration certificates, were not be used in the judgment of the final status of compliance.

Test Item	Standard	Measurement Method	Result
AGC Threshold	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 2 2.1046(a) , FCC Part 90	ANSI C63.26-2015, Section 7.2.3.1 KDB 935210 D05, v01r04, Clause 3.2, 4.2	PASS
Occupied Bandwidth	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 2 2.1046(a), FCC Part 90	ANSI C63.26-2015, Section 7.2.3.1 KDB 935210 D05, v01r04	PASS
Out of Band Rejection	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90	ANSI C63.26-2015, Section 7.2.3.2 KDB 935210 D05, v01r04, Clause 3.3, 4.3	PASS
Input-versus-output Signal Comparison	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90	ANSI C63.26-2015, Section 7.2.3.3 KDB 935210 D05, v01r04, Clause 3.4, 4.4	PASS
Input/output Power and Amplifier/Booster Gain	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90	ANSI C63.26-2015, Section 7.2.3.4 KDB 935210 D05, v01r04, Clause 3.5, 4.5	PASS
Measuring out-of-band/out-of-block (including intermodulation) and spurious emissions	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90	ANSI C63.26-2015, Section 7.2.3.6 Section 7.2.3.7 KDB 935210 D05, v01r04, Clause 3.6, 4.7	PASS
Noise Figure	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90	ANSI C63.26-2015, Section 7.2.3.5 KDB 935210 D05, v01r04, Clause 4.6	PASS
Frequency stability	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 2.1055	ANSI C63.26-2015, Section 7.2.3.8 KDB 935210 D05, v01r04, Clause 3.7, 4.8	N/A
Radiated Spurious Emissions	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90, FCC Part 2.1053	ANSI C63.26-2015, Section 7.2.3.9 KDB 935210 D05, v01r04, Clause 3.8, 4.9	PASS
Conducted Emissions at AC Main	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90	ANSI C63.4: 2014	PASS

## Test Result

### 1. AGC Threshold

Governing Doc	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 2 2.1046(a) FCC Part 90			Room Temperature (°C)	21
Test Procedure	ANSI C63.26-2015, Section 7.2.3.1 KDB 935210 D05, v01r04, Clause 3.2, 4.2			Relative Humidity (%)	45
Test Location	Richmond			Barometric	1012
Test Engineer	Jack Qin			Date	February 24, 2025
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B	MY62153079	Oct 25, 2023	Aug 1, 2025
Frequency Range:	<input checked="" type="checkbox"/> 450 MHz – 480 MHz; <input checked="" type="checkbox"/> 450 MHz – 480 MHz; <input checked="" type="checkbox"/> 851 MHz – 869 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
Type of Facility:	<input checked="" type="checkbox"/> Test bench				
Distance:	<input checked="" type="checkbox"/> Direct				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Output Power is less than or equal 36.61 dBm in band 800, and less than or equal 37.09 dBm in band 450.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

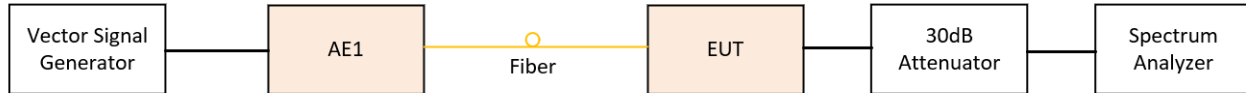
## Test setup

### Description of test set-up:

Output power is measured by connecting a spectrum analyzer to RF output connector of EUT via 30dB attenuator. With a nominal input power and the amplifier properly adjusted the RF output is measured.

The EUT was set to **Operation Mode #1 with configuration Mode #1**.

The maximum output power is measured when the Automatic Level Control (ALC) starting to compress the power and hold to a constant level.



## Results – Output Power FCC Requirement

Frequency Range (MHz)	Frequency (MHz)	Input Power Trip ALC (dBm)	Output Power (dBm)	Output Power (Watt)
PSUHF 450 - 480	450	-13.2	37.04	5.06
	465	-12.2	36.99	5
	480	-11.2	37.09	5.12
PSUHF 450 - 480	450	-10.8	37.06	5.08
	465	-9.8	37.07	5.09
	480	-6.4	36.71	4.69
800PS 851 - 869	851	-6.1	36.61	4.58
	860	-8	36.53	4.5
	869	-8	36.46	4.43



## 2. Occupied Bandwidth

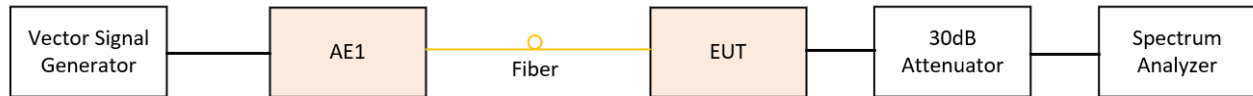
Governing Doc	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 2 2.1046(a) FCC Part 90			Room Temperature (°C)	21
Test Procedure	ANSI C63.26-2015, Section 7.2.3.1 KDB 935210 D05, v01r04			Relative Humidity (%)	45
Test Location	Richmond			Barometric	1012
Test Engineer	Jack Qin			Date	February 24, 2025
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B	MY62153079	Oct 25, 2023	Aug 1, 2025
Frequency Range:	<input checked="" type="checkbox"/> 450 MHz – 480 MHz; <input checked="" type="checkbox"/> 450 MHz – 480 MHz, <input checked="" type="checkbox"/> 851 MHz – 869 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
Type of Facility:	<input checked="" type="checkbox"/> Test bench				
Distance:	<input checked="" type="checkbox"/> Direct				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Output signal has an occupied channel bandwidth less than the designated channel bandwidth on any location on the operating band. <ul style="list-style-type: none"> <li>- C4FM &lt; 12.5 kHz</li> <li>- CQPSK &lt; 6.25 kHz</li> <li>- HDQPSK &lt; 12.5 kHz</li> <li>- 4 kHz FM with 1kHz deviation &lt; 12.5 kHz</li> </ul>					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

## Test Setup

Occupied Bandwidth is measured by connecting a Spectrum Analyzer to the RF output connector via 30dB attenuator. The required measurement resolution bandwidth (RBW) is 1% of the emission bandwidth. 99% energy rule was applied to measure the occupied channel bandwidth. The emission bandwidth is measured as the width of the signal between two frequency points on the channel edge, outside of which the transmission power is attenuated at least 26dB below the transmitter output power

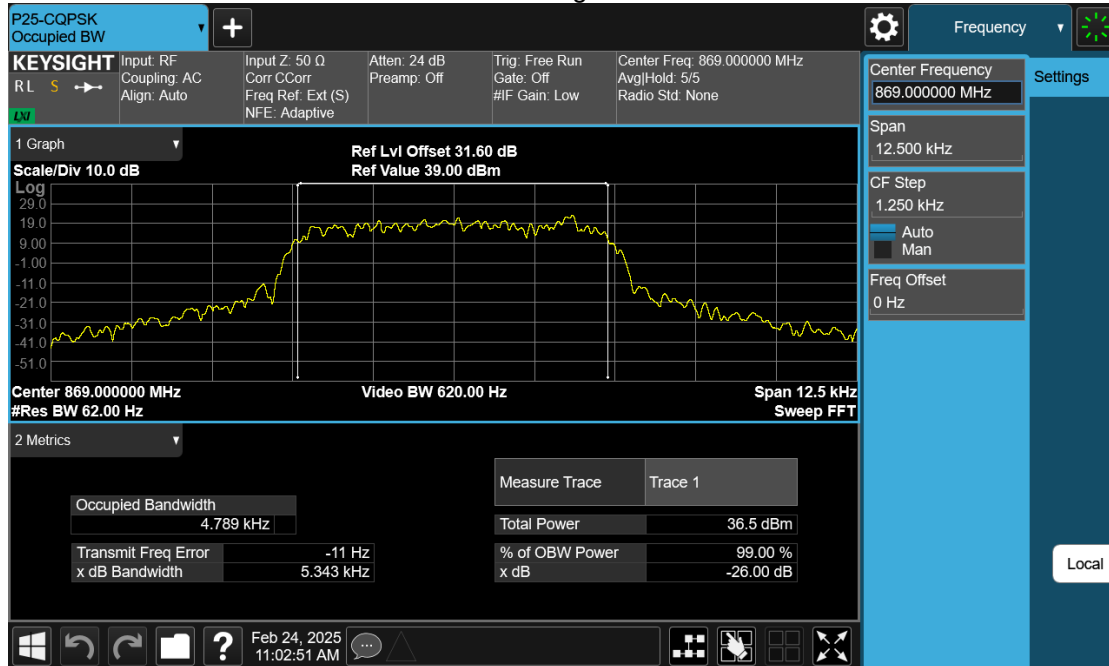
The EUT was set to **Operation Mode #1 with configuration Mode #1**.

The occupied bandwidth of UL output is measured under one input conditions: Nominal: with input 0.5dB below AGC threshold

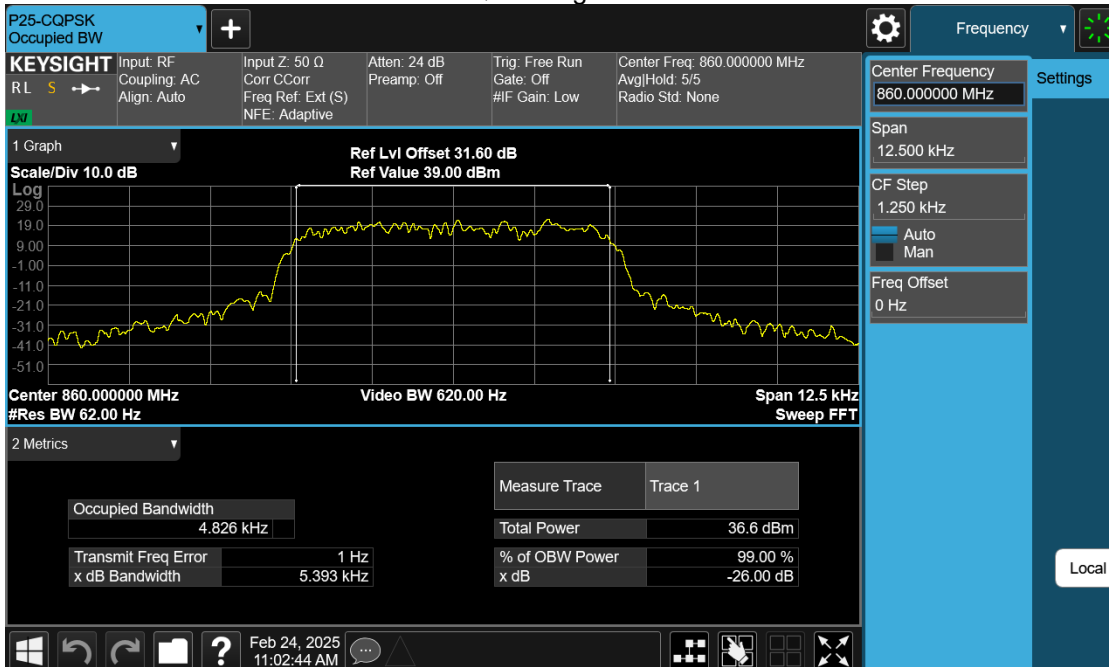


## Test Results

### 800PS CQPSK Signal at 869 MHz

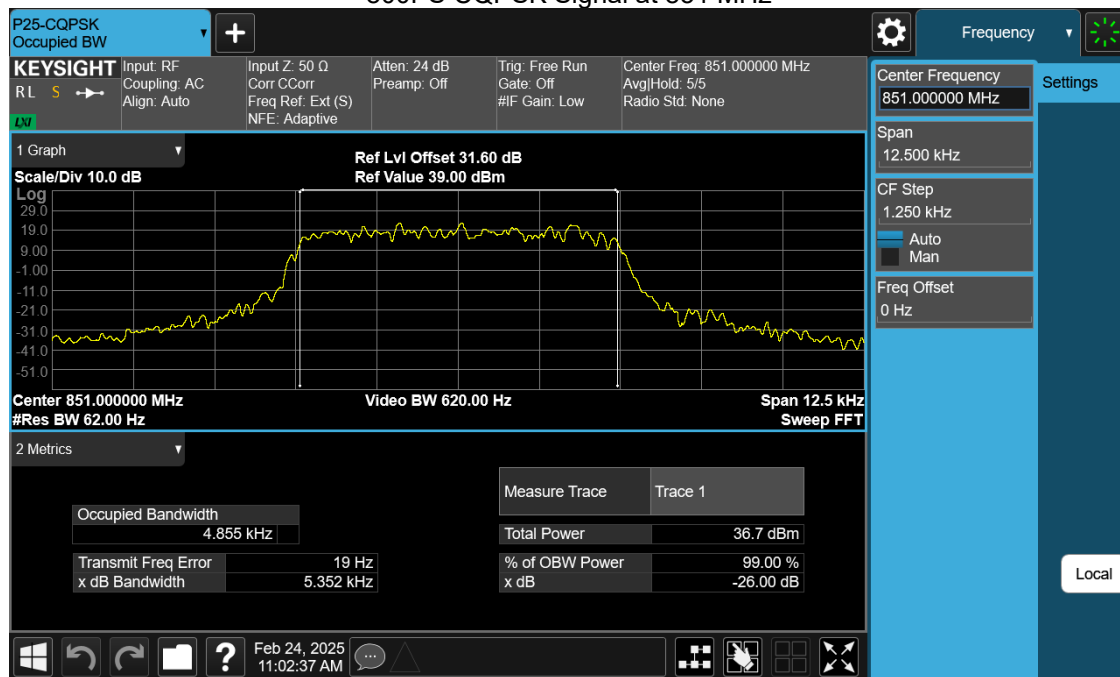


### 800PS CQPSK Signal at 860 MHz

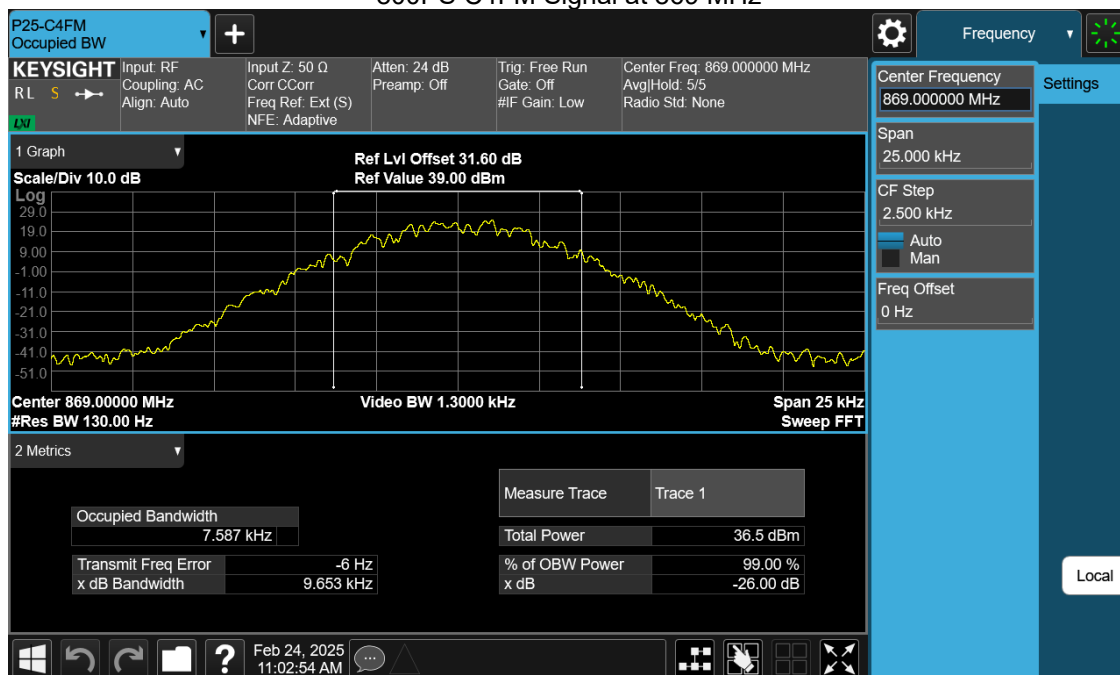


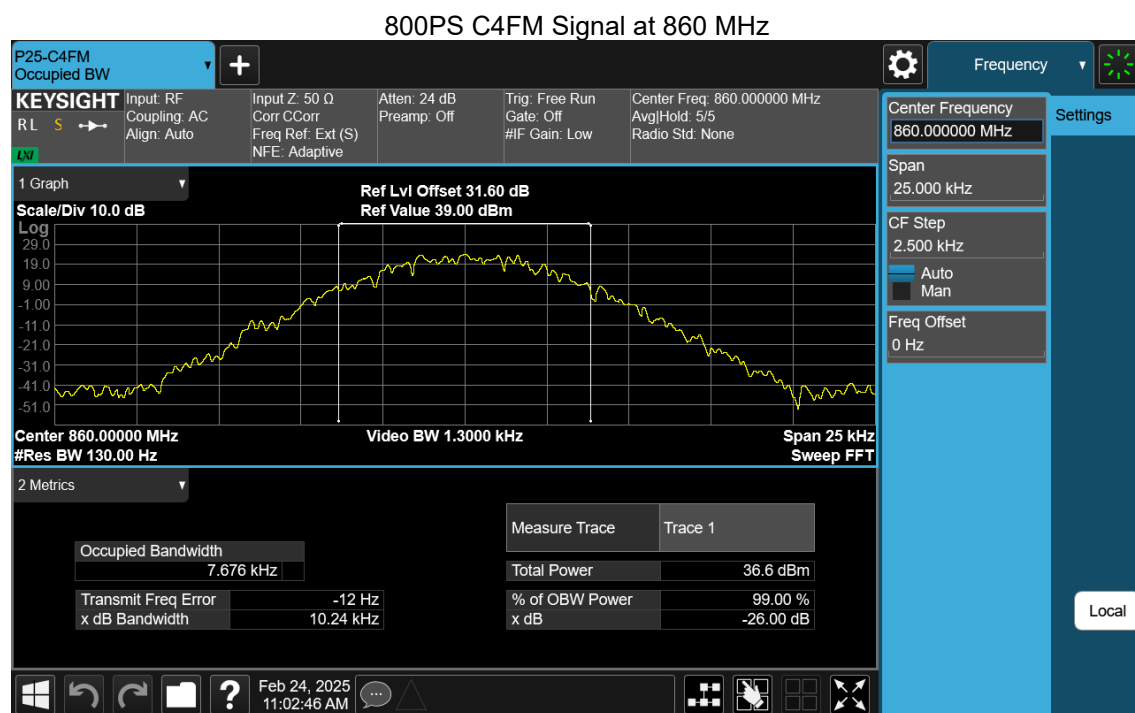
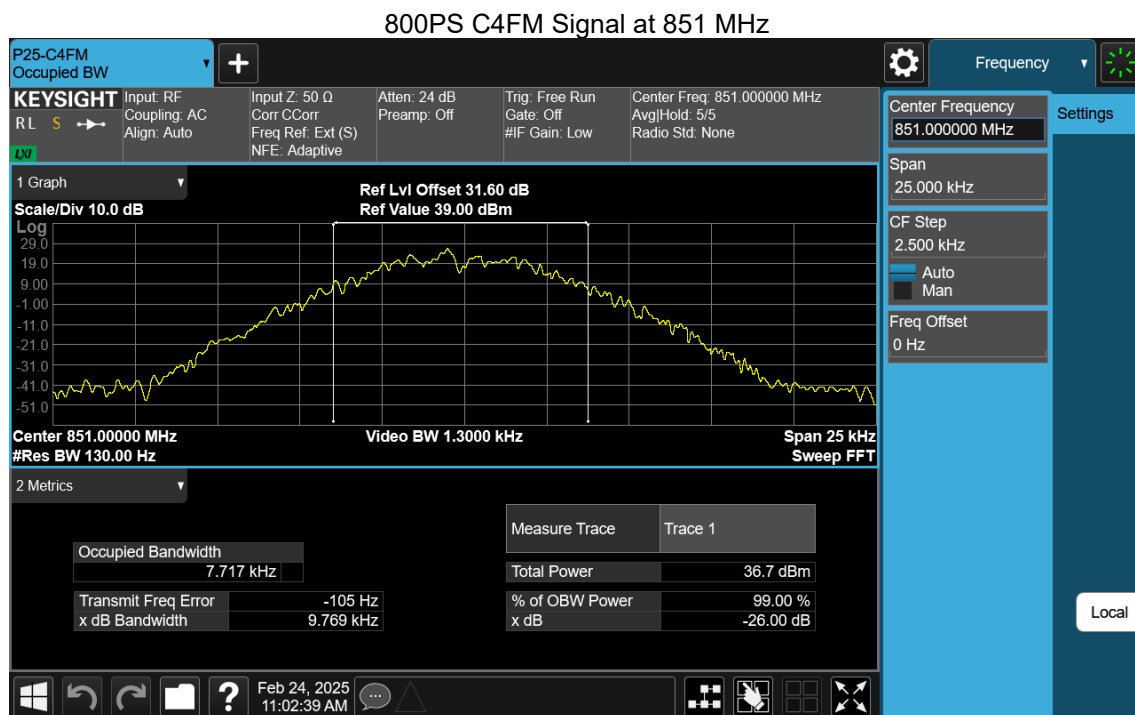


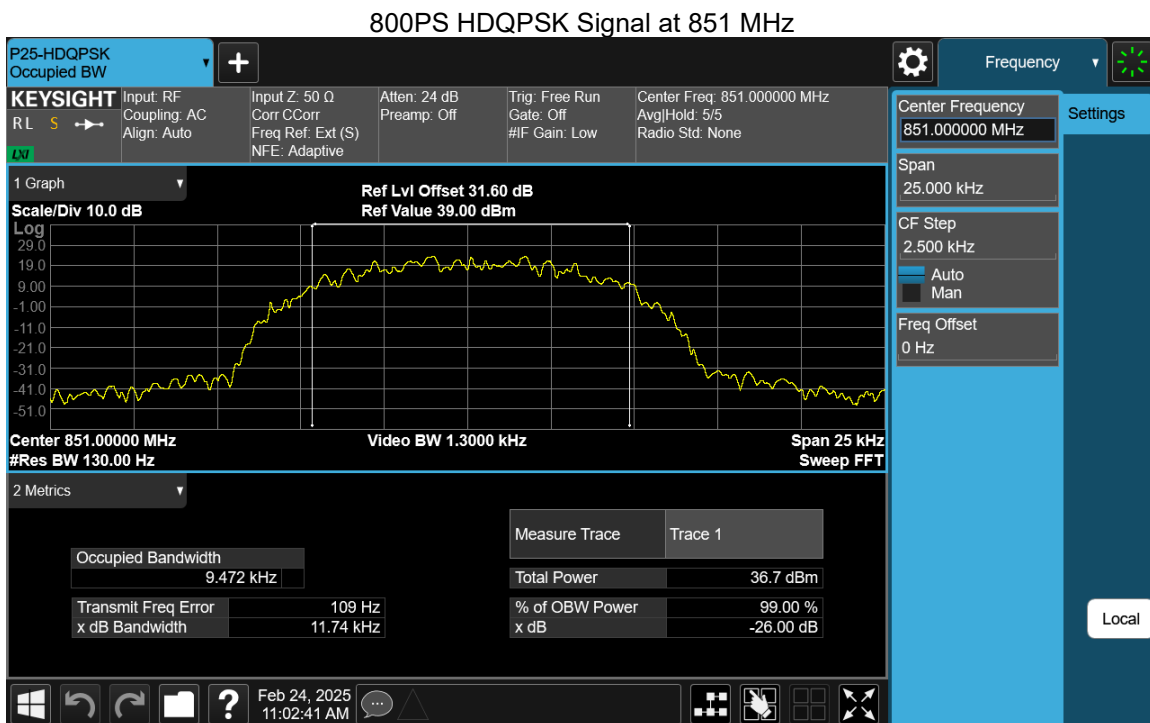
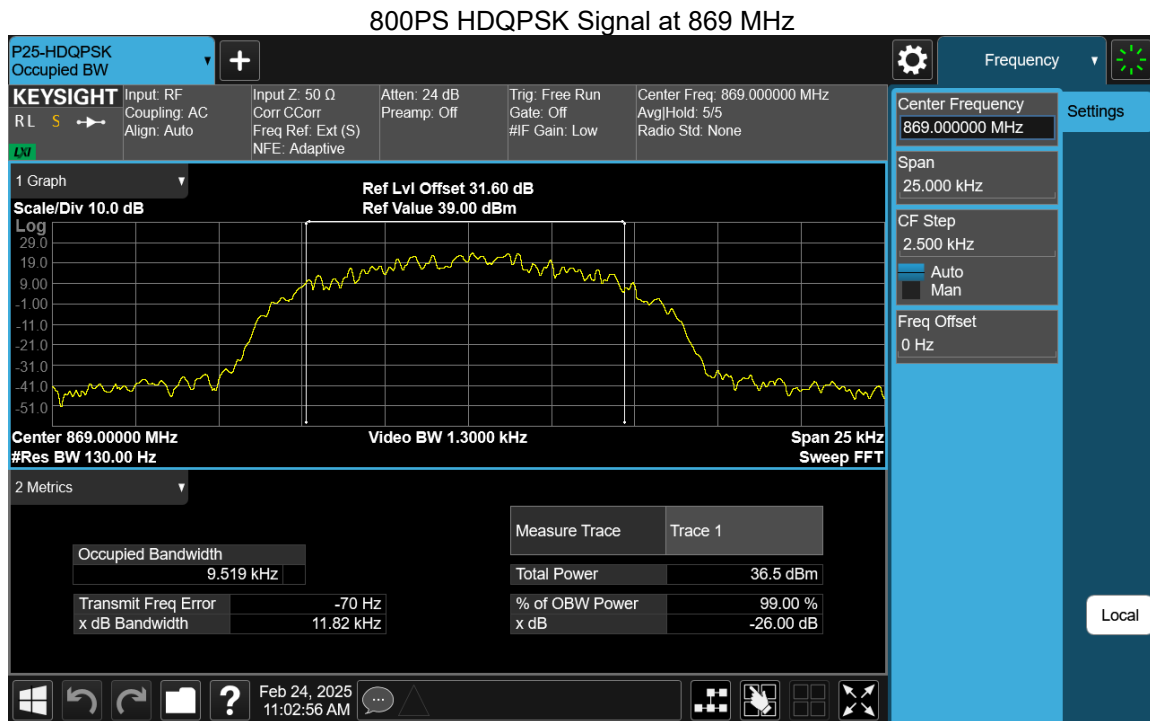
### 800PS CQPSK Signal at 851 MHz



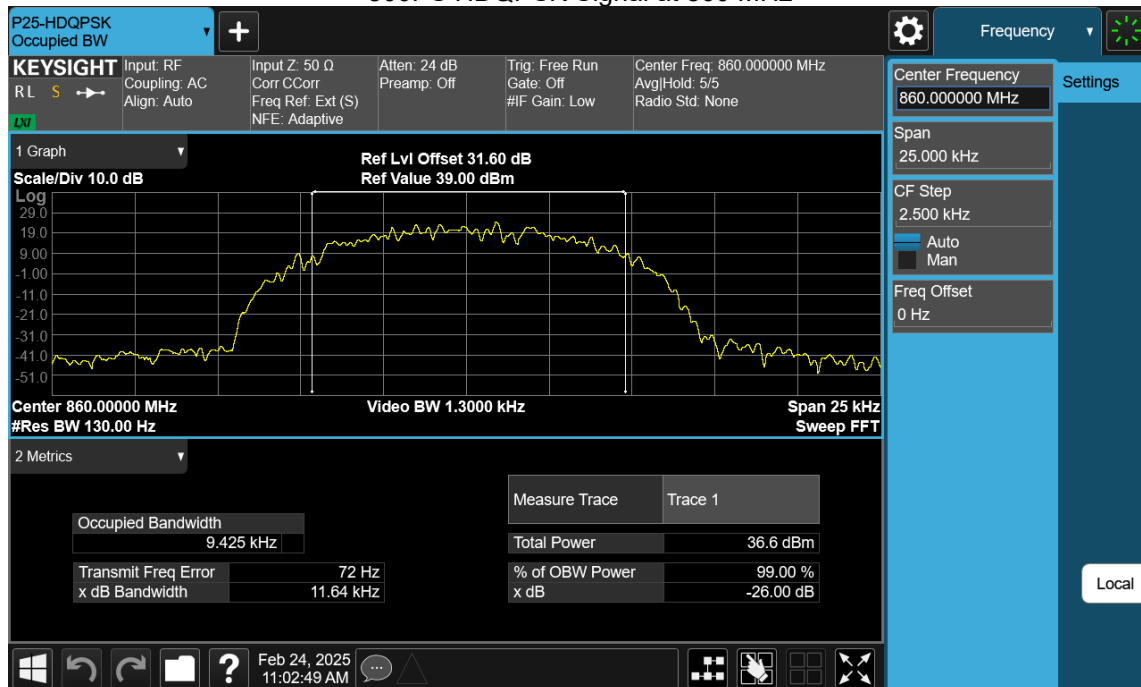
### 800PS C4FM Signal at 869 MHz



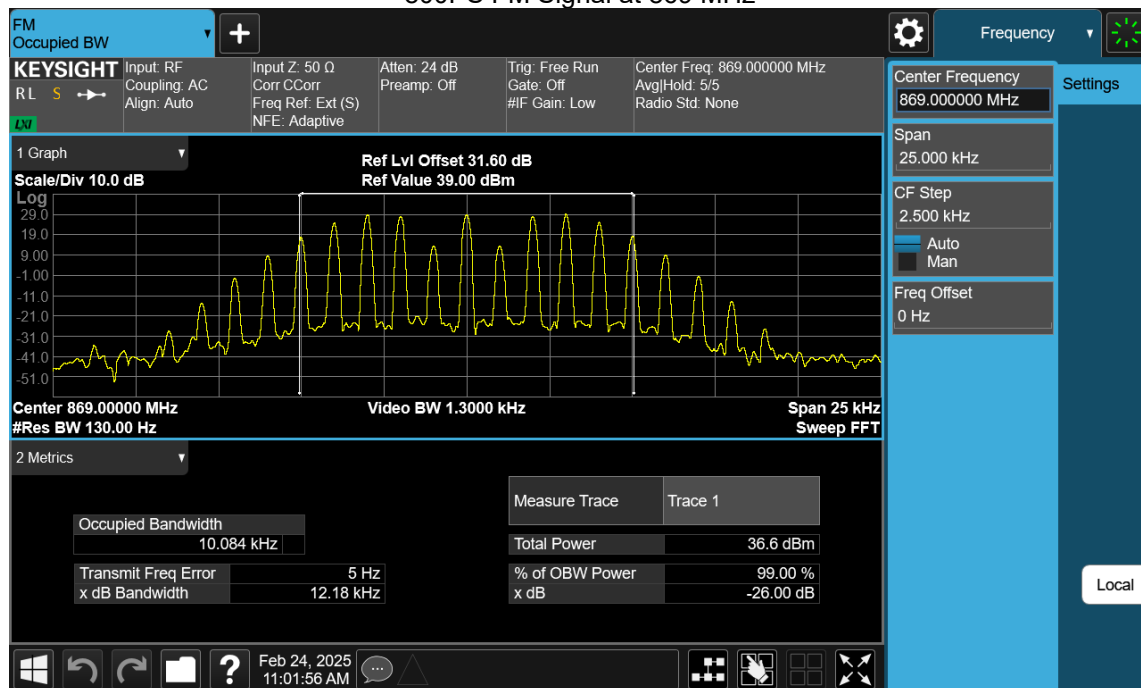




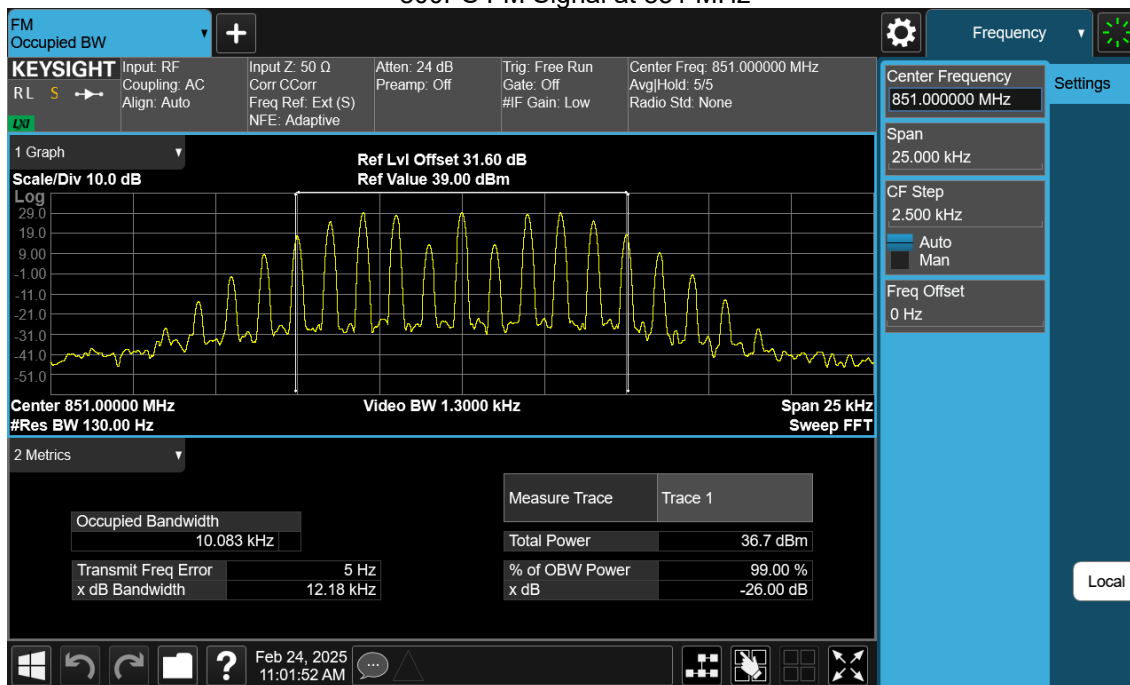
### 800PS HDQPSK Signal at 860 MHz



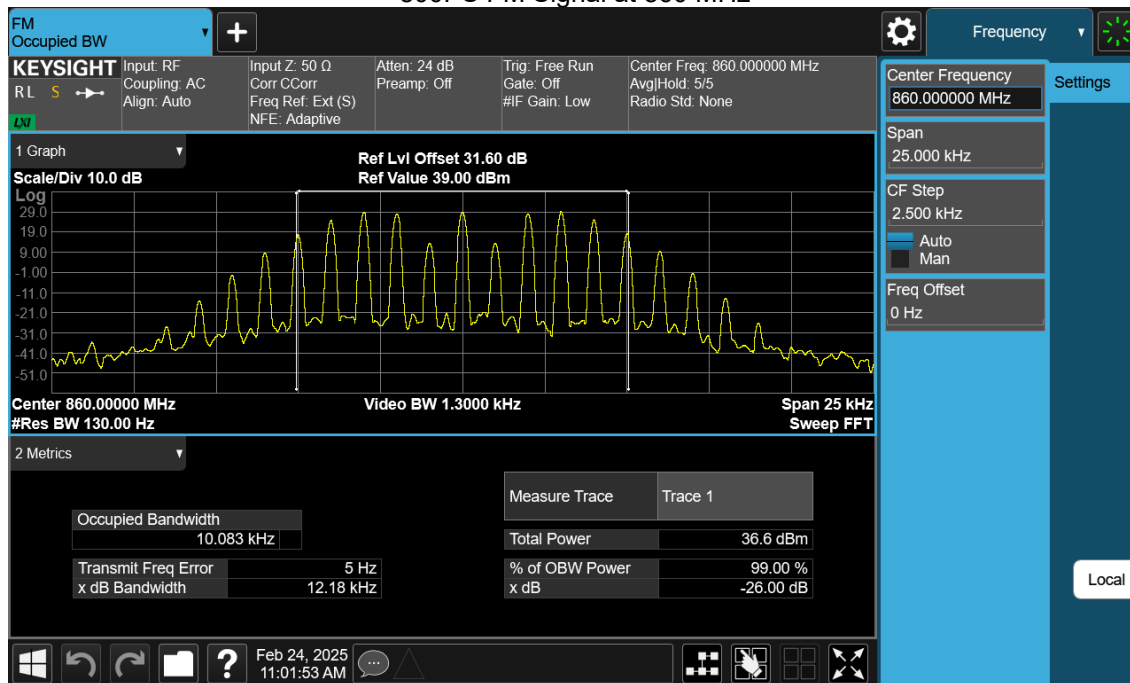
### 800PS FM Signal at 869 MHz



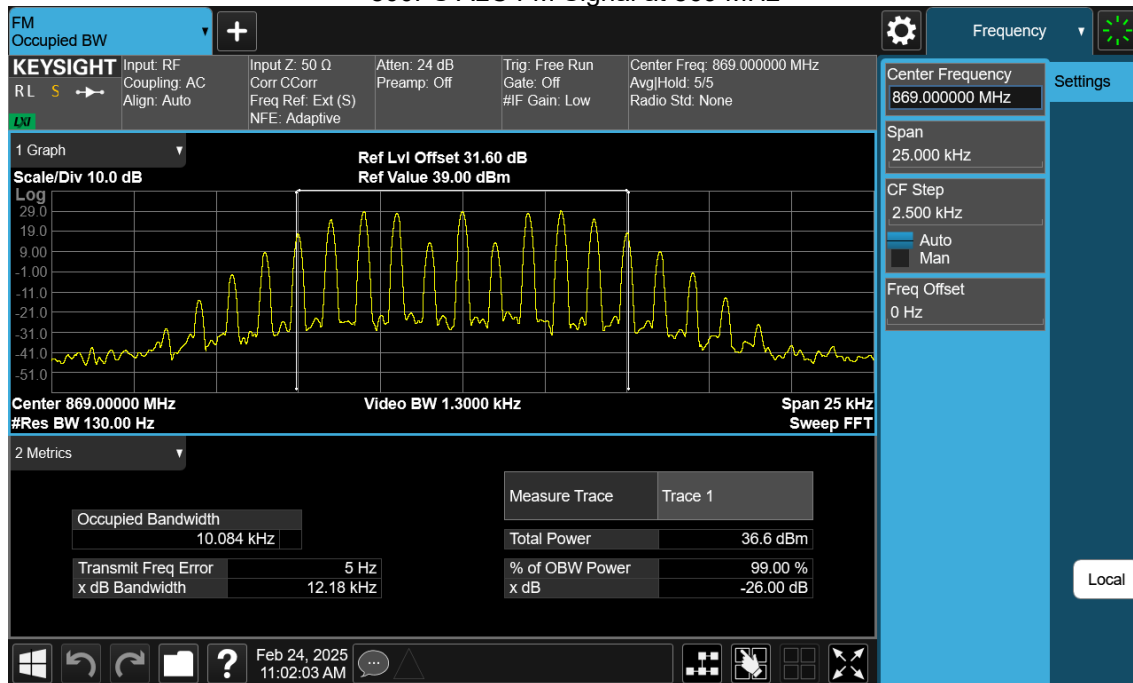
### 800PS FM Signal at 851 MHz



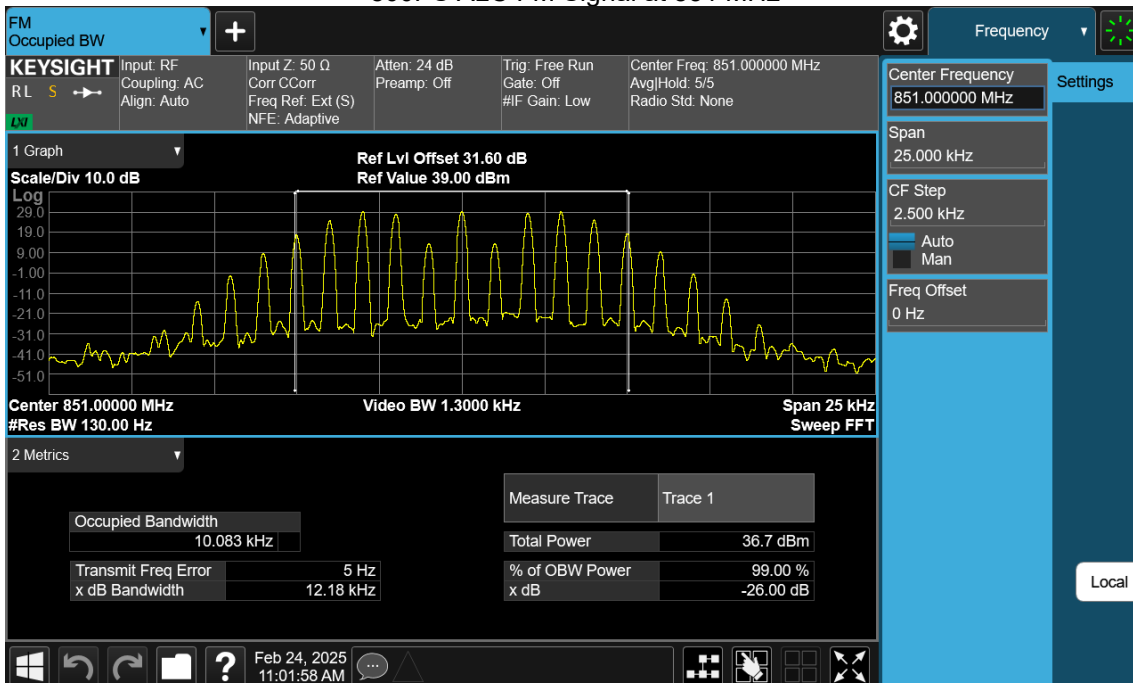
### 800PS FM Signal at 860 MHz



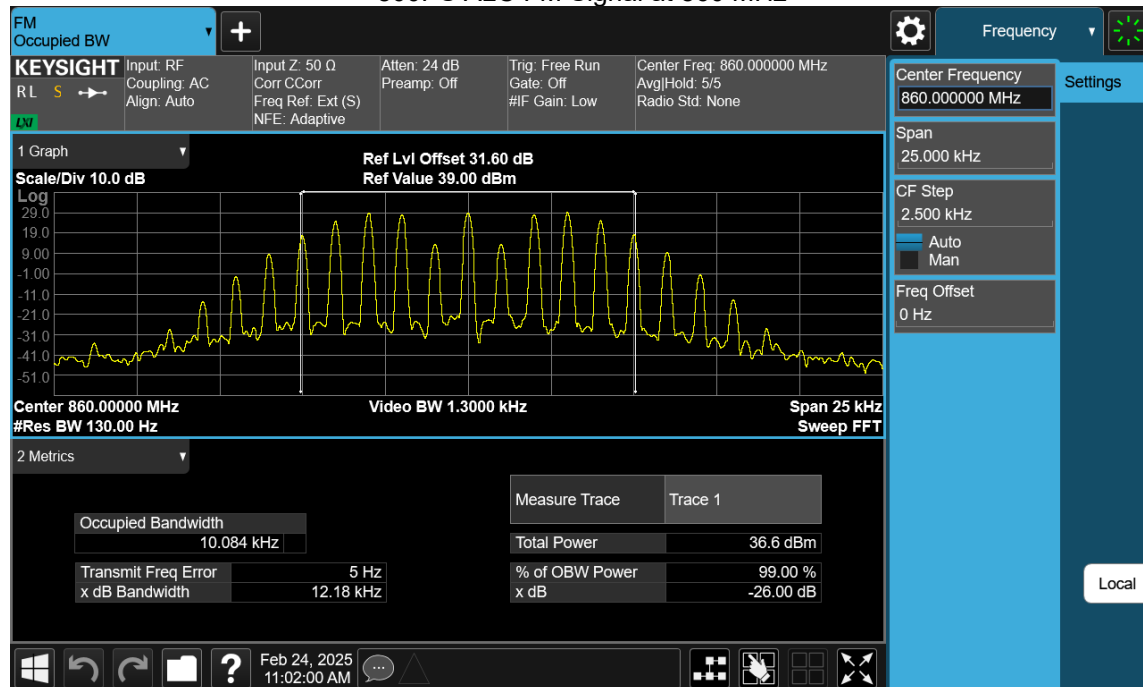
### 800PS ALC FM Signal at 869 MHz



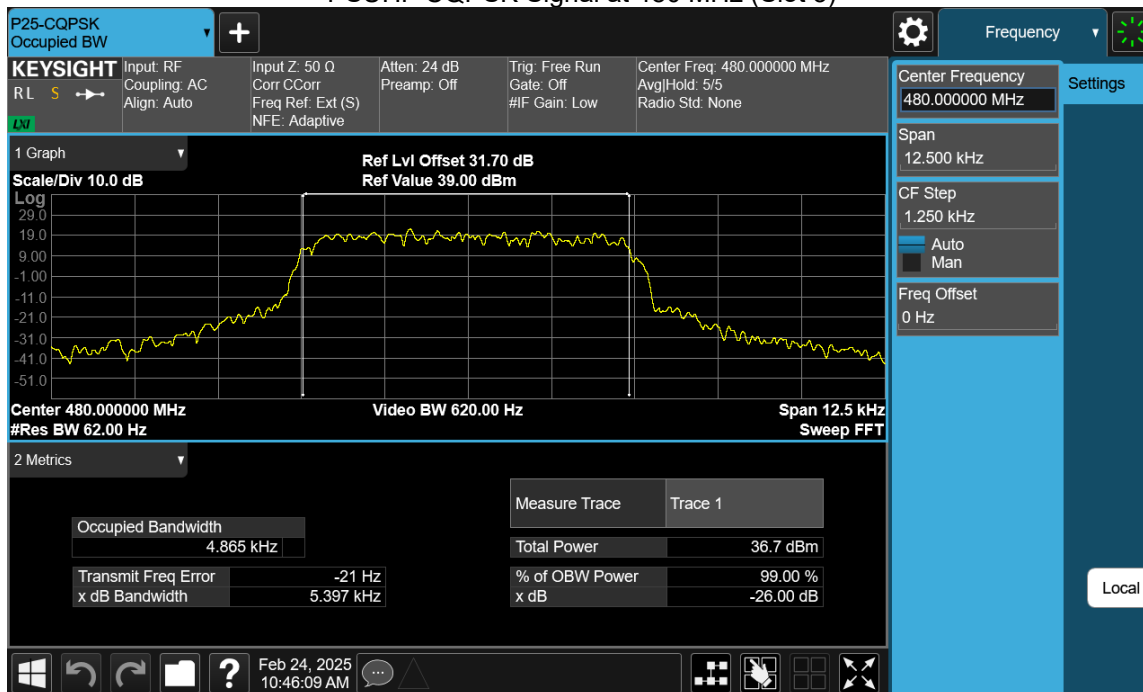
### 800PS ALC FM Signal at 851 MHz



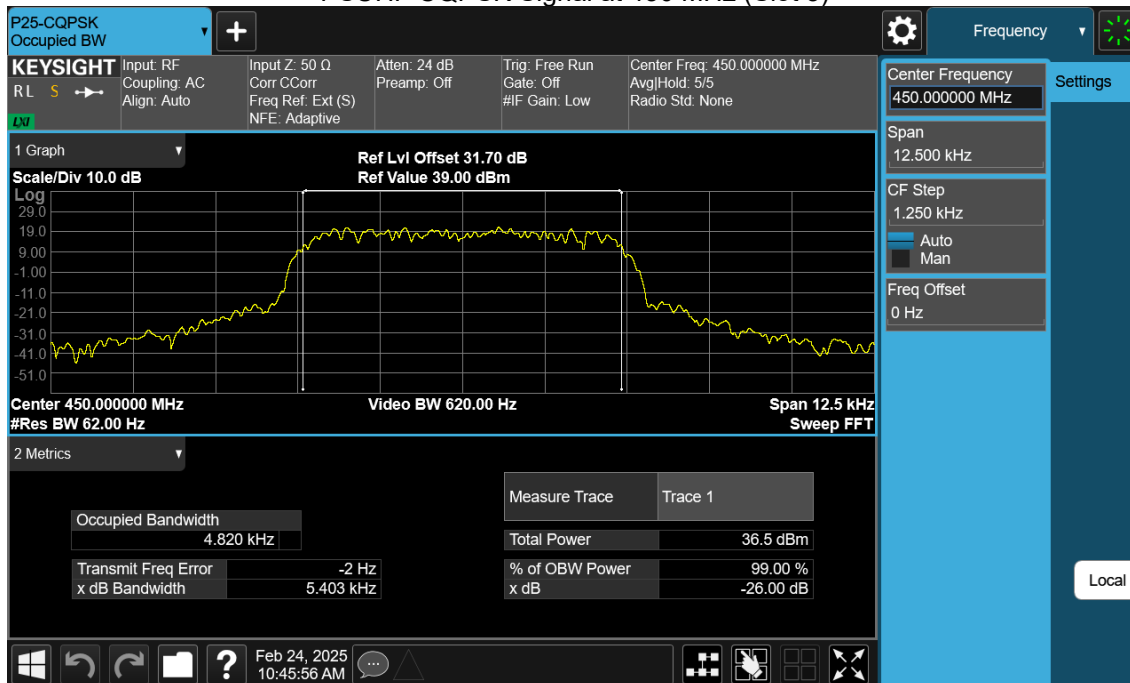
### 800PS ALC FM Signal at 860 MHz



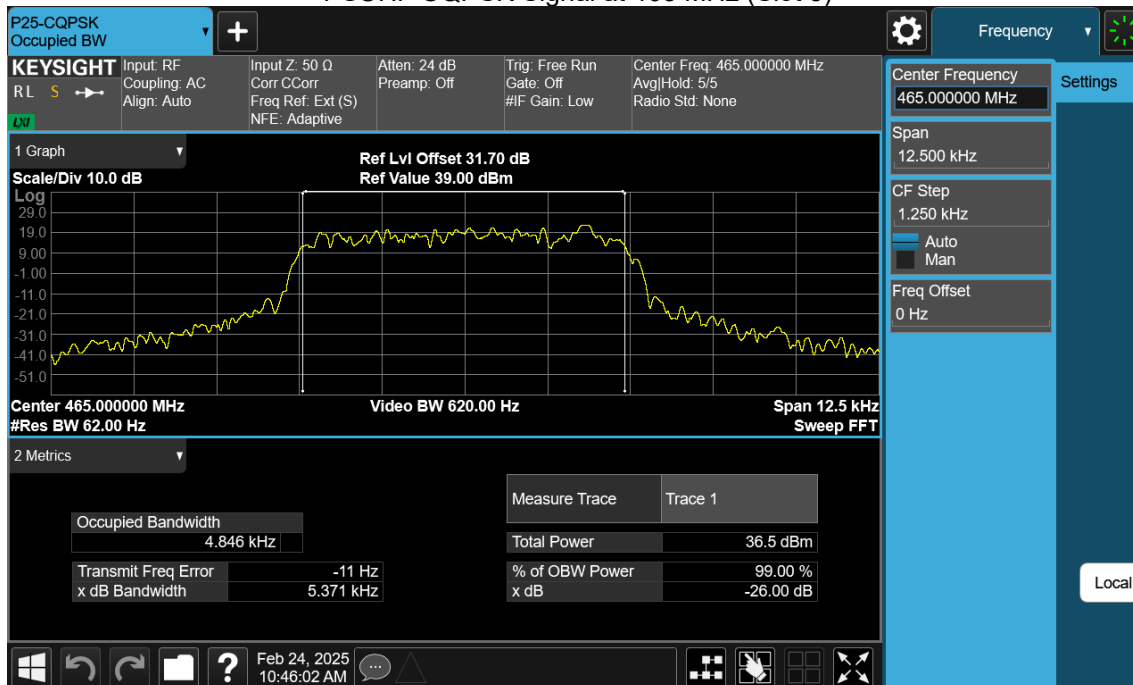
### PSUHF CQPSK Signal at 480 MHz (Slot 3)



### PSUHF CQPSK Signal at 450 MHz (Slot 3)

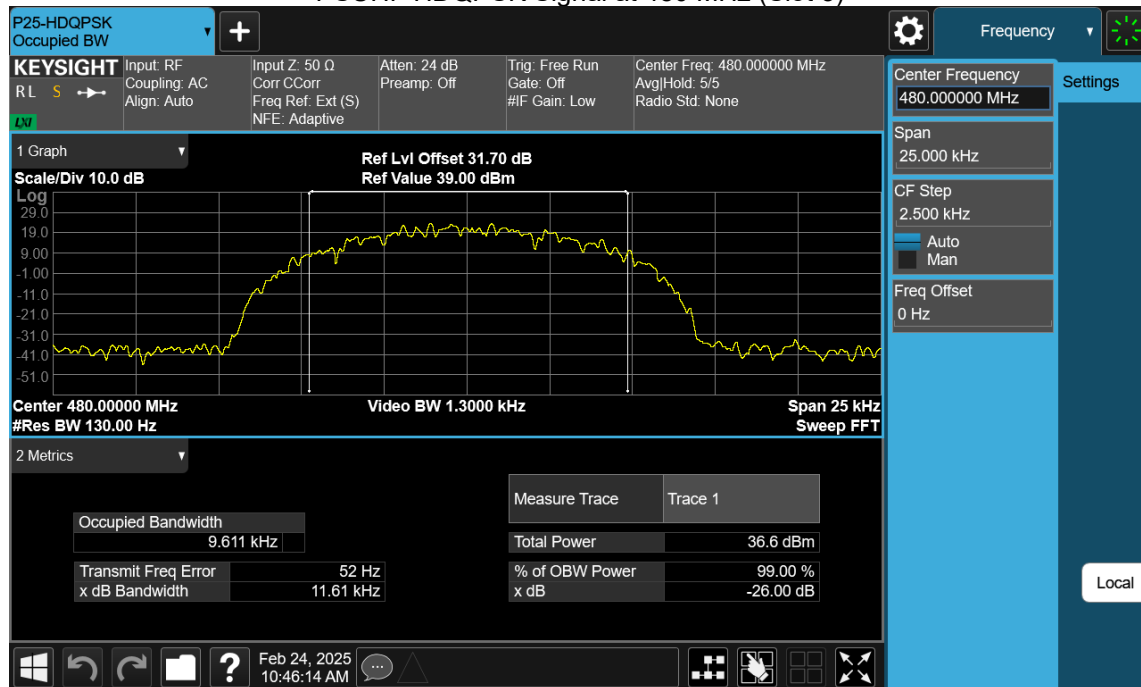


### PSUHF CQPSK Signal at 465 MHz (Slot 3)

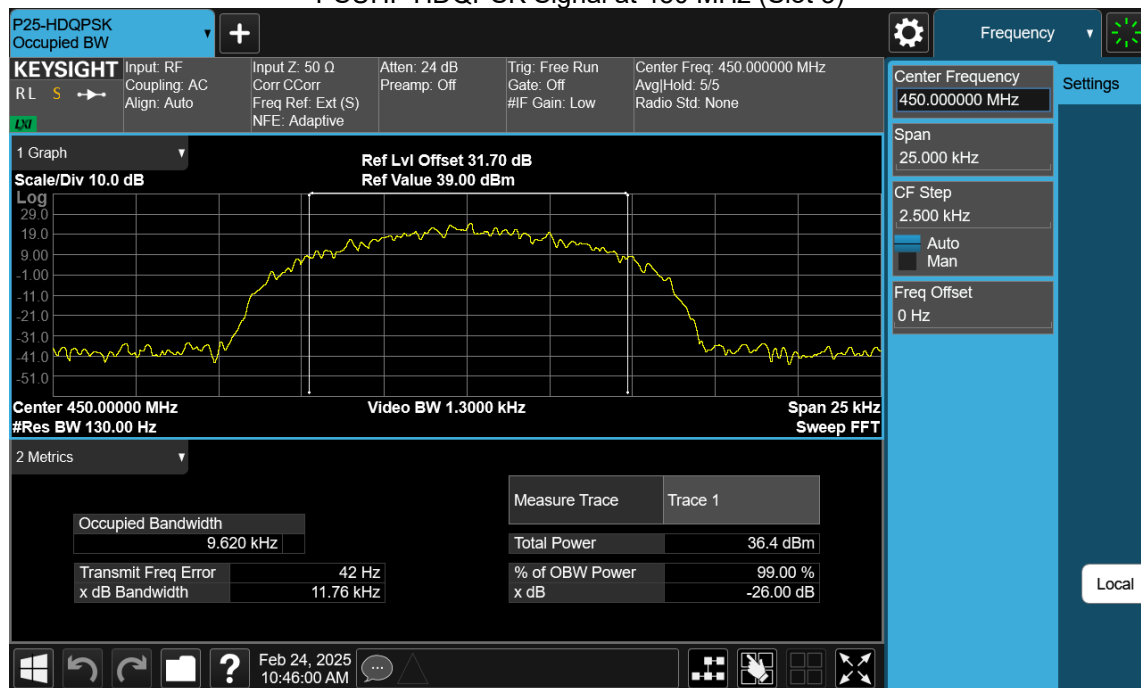




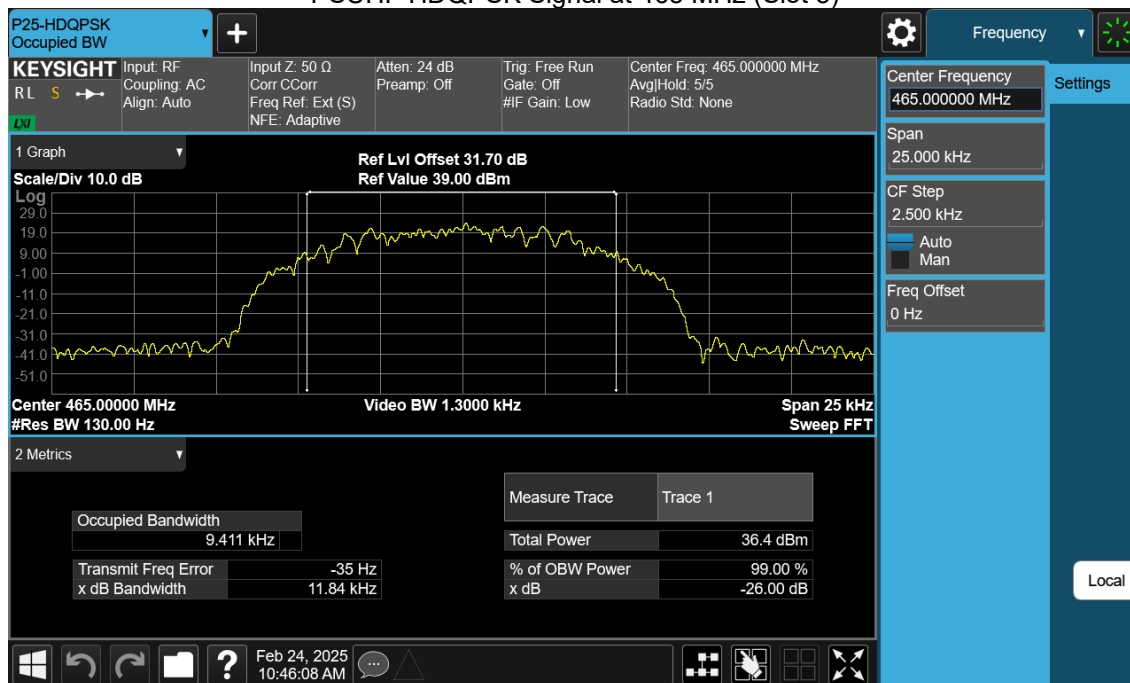
### PSUHF HDQPSK Signal at 480 MHz (Slot 3)



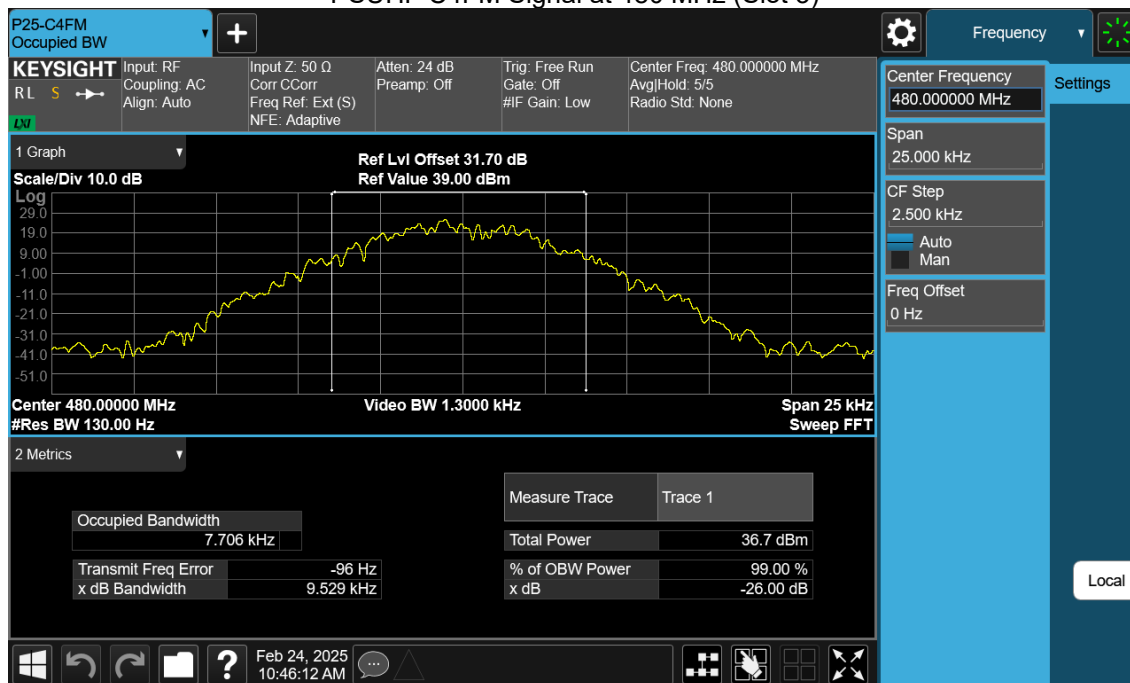
### PSUHF HDQPSK Signal at 450 MHz (Slot 3)



### PSUHF HDQPSK Signal at 465 MHz (Slot 3)



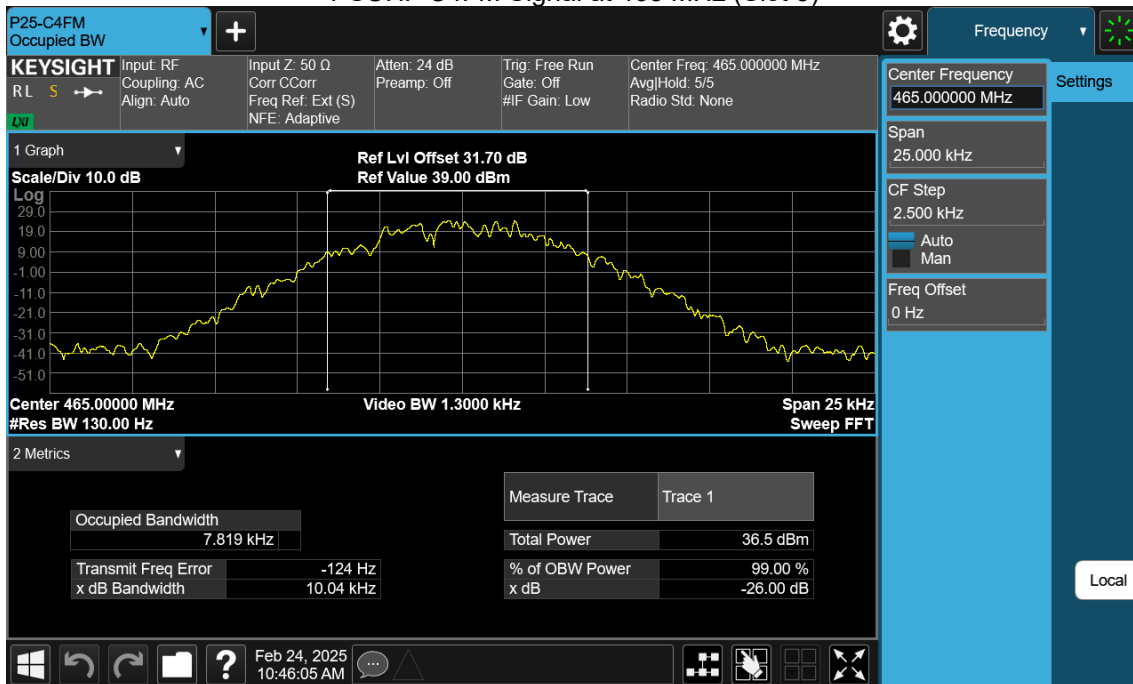
### PSUHF C4FM Signal at 480 MHz (Slot 3)



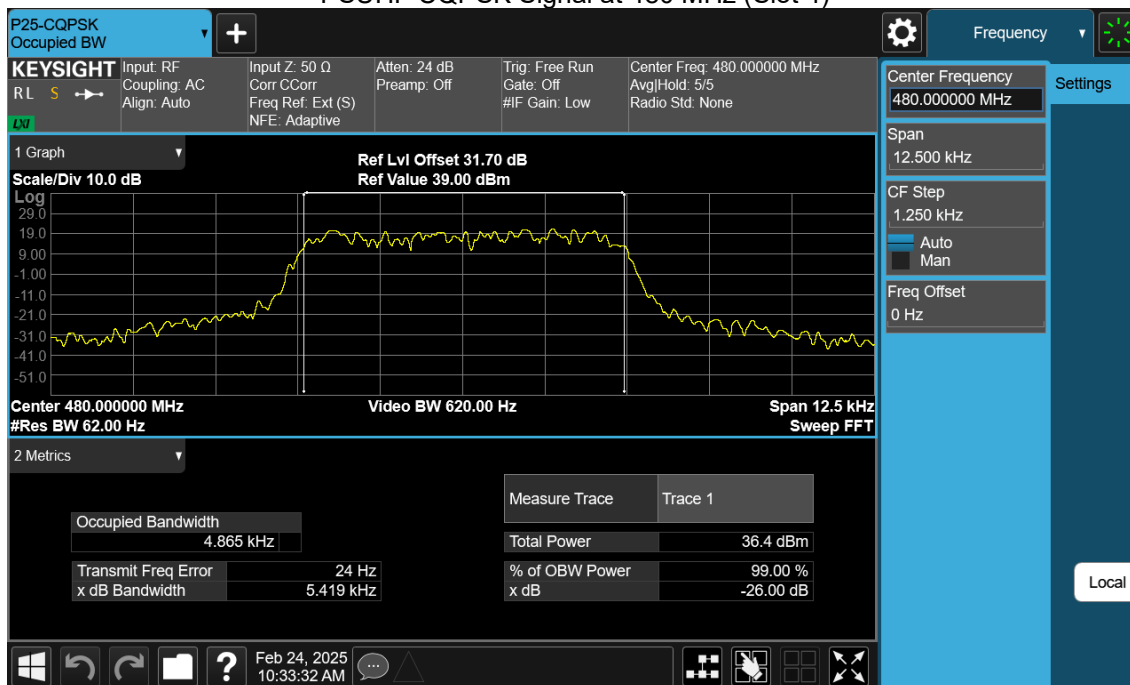
### PSUHF C4FM Signal at 450 MHz (Slot 3)



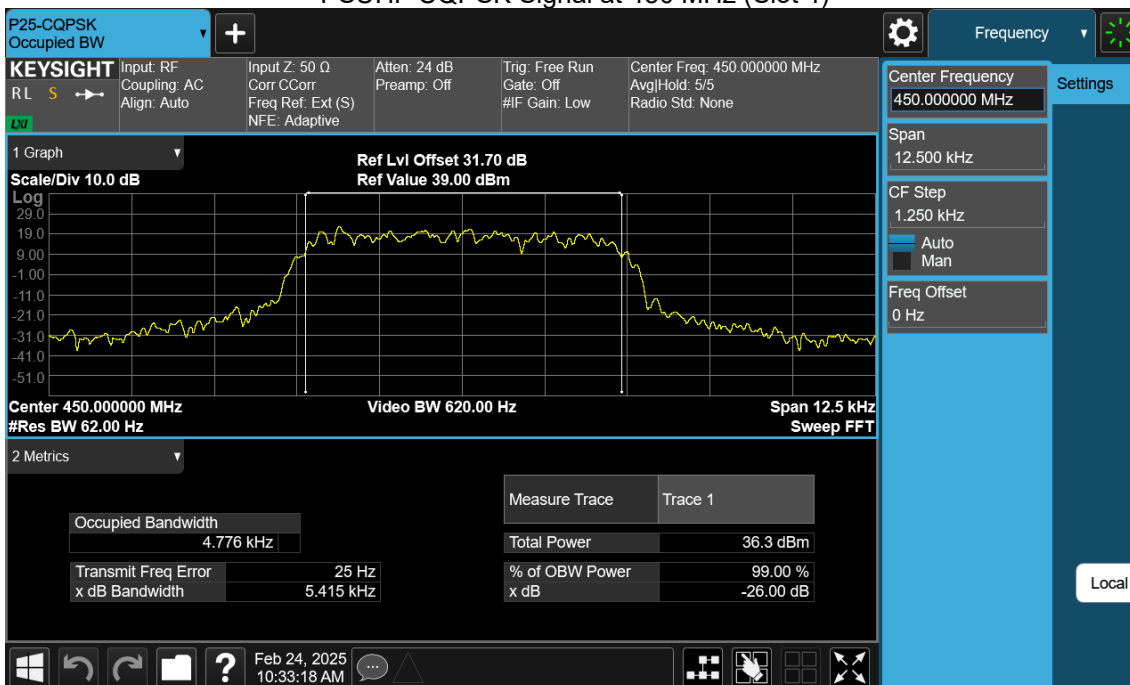
### PSUHF C4FM Signal at 465 MHz (Slot 3)



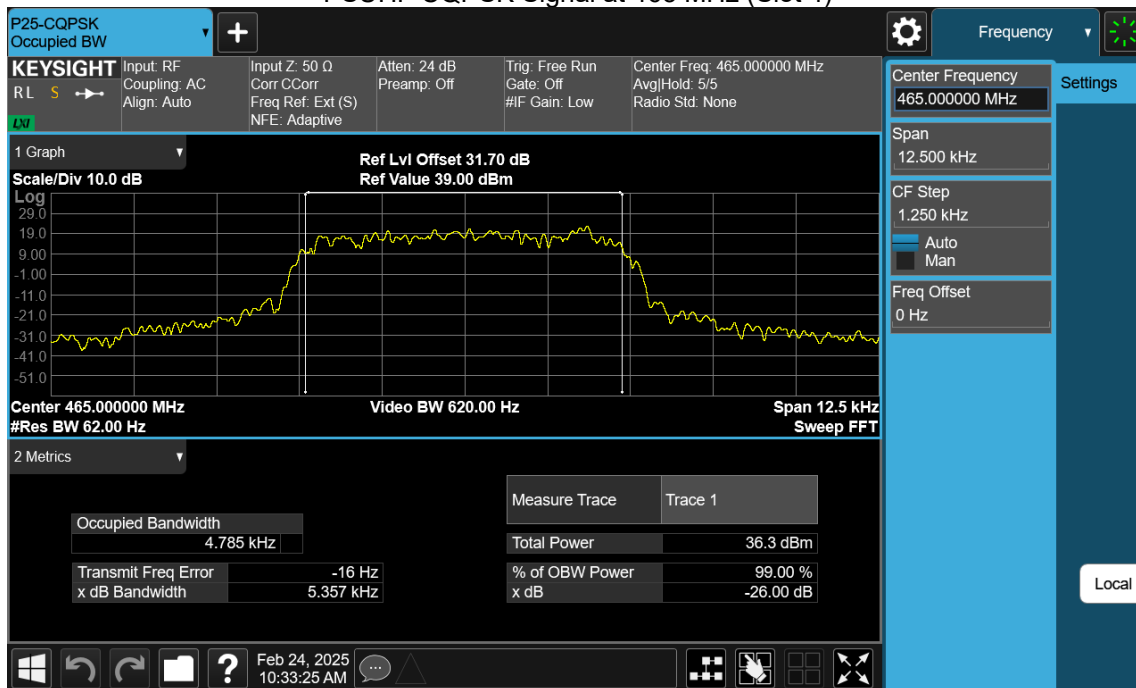
### PSUHF CQPSK Signal at 480 MHz (Slot 4)



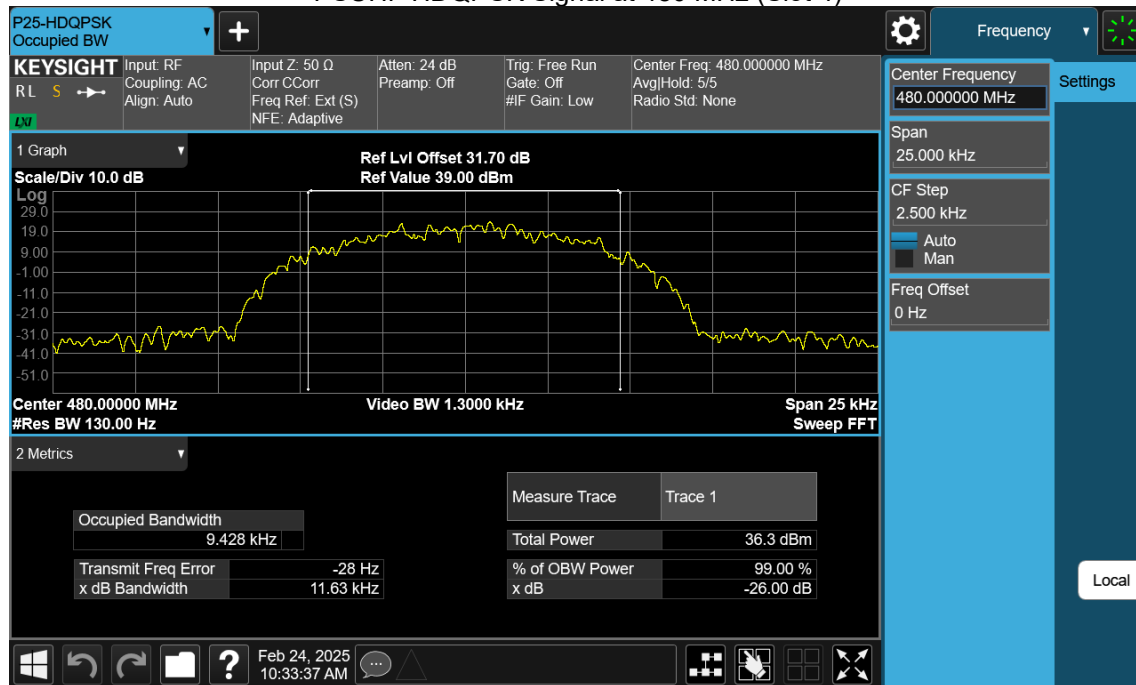
### PSUHF CQPSK Signal at 450 MHz (Slot 4)



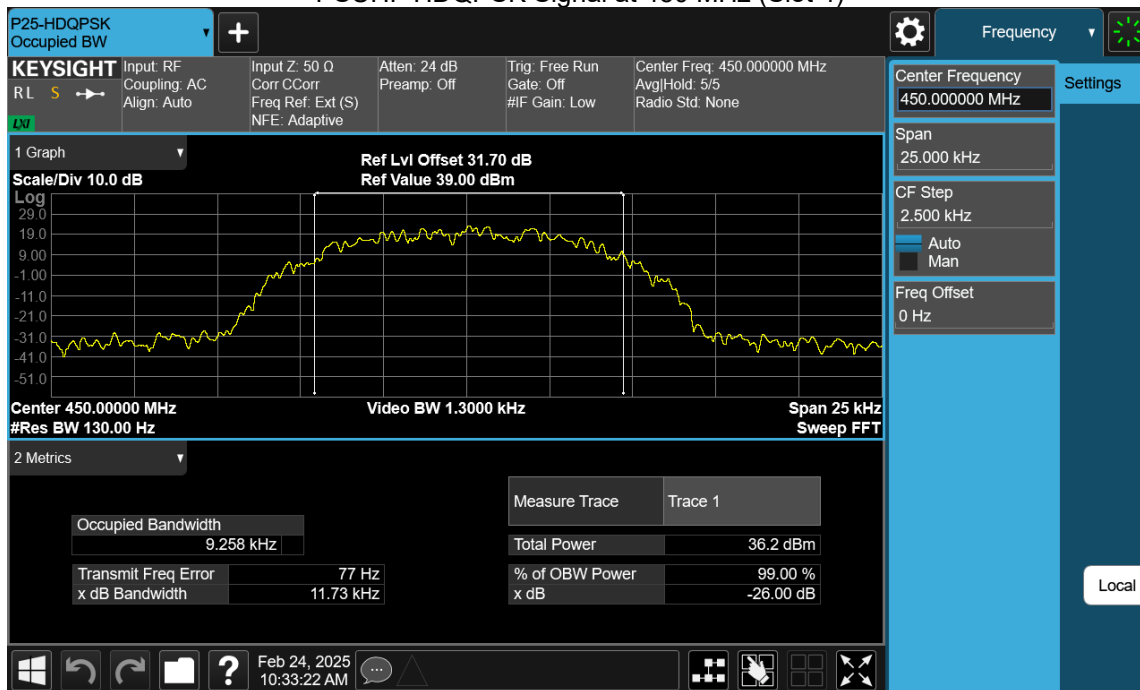
### PSUHF CQPSK Signal at 465 MHz (Slot 4)



### PSUHF HDQPSK Signal at 480 MHz (Slot 4)



### PSUHF HDQPSK Signal at 450 MHz (Slot 4)



### PSUHF HDQPSK Signal at 465 MHz (Slot 4)

