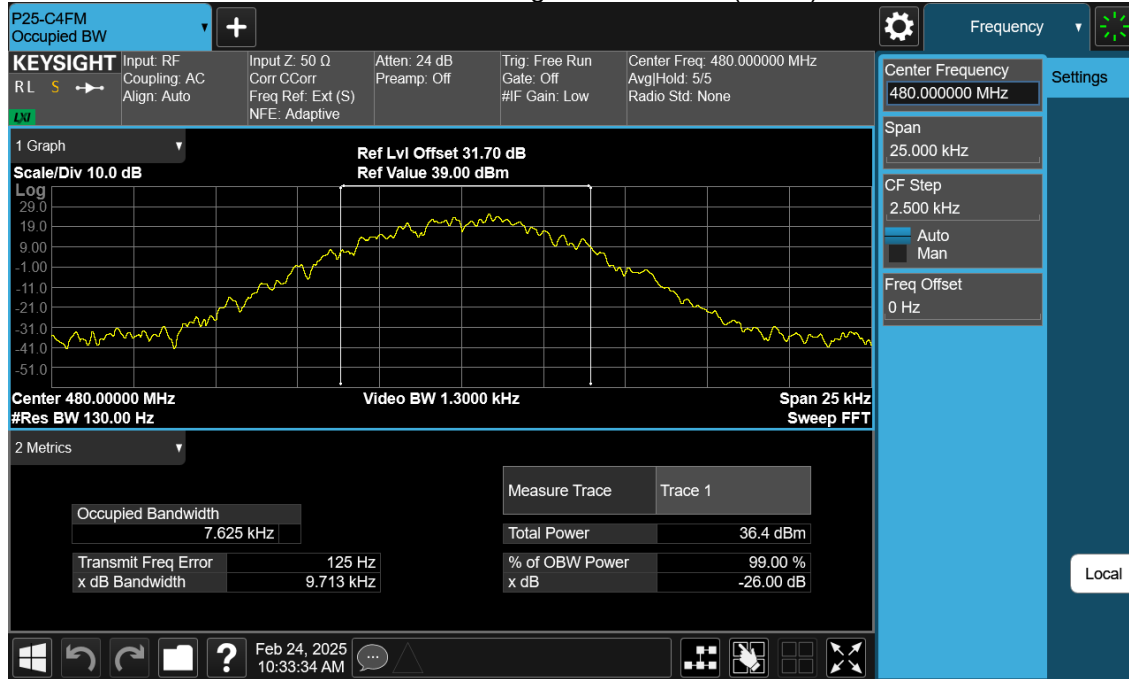
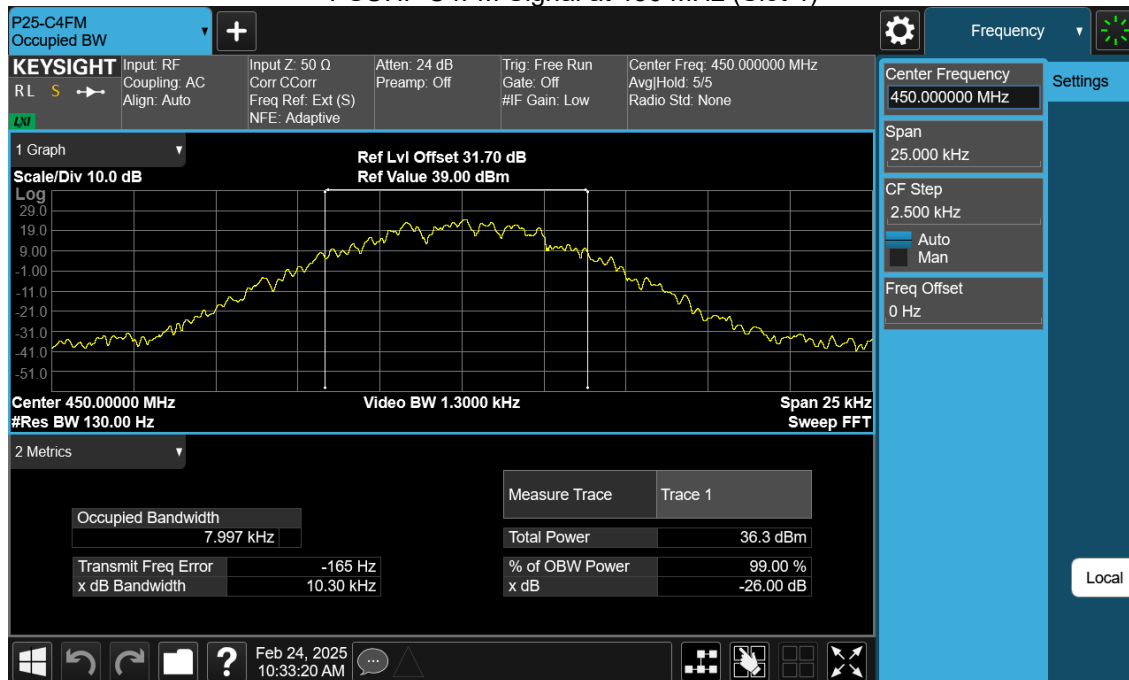


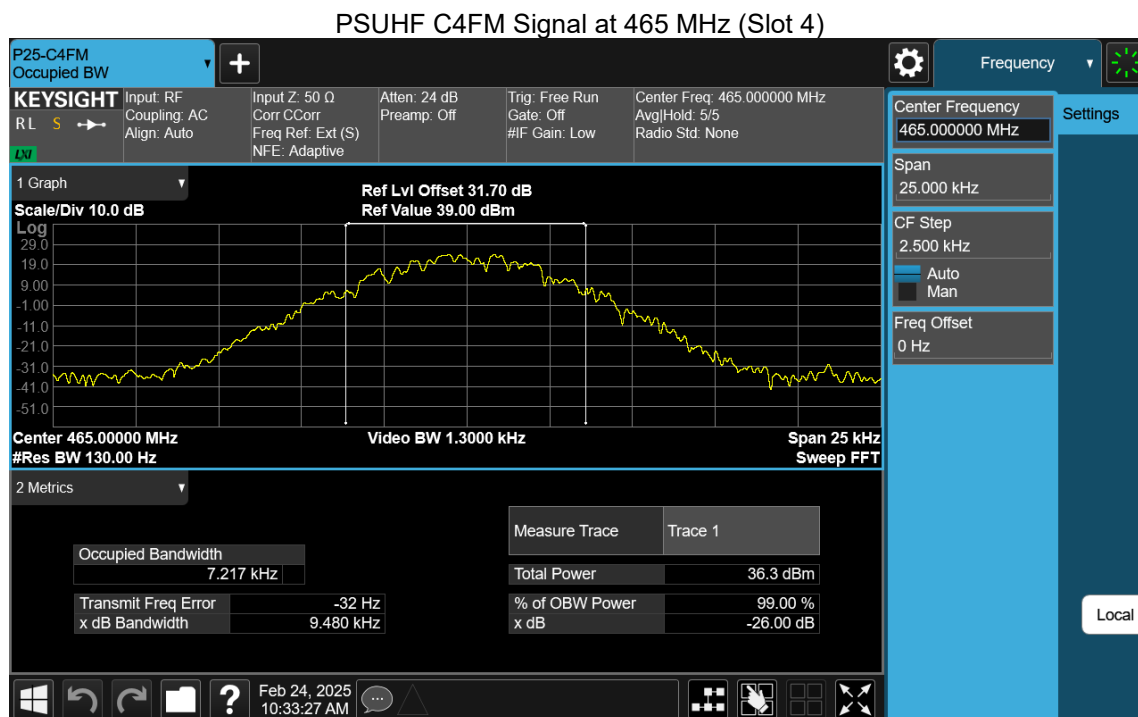
### PSUHF C4FM Signal at 480 MHz (Slot 4)



### PSUHF C4FM Signal at 450 MHz (Slot 4)



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



### 3. Out of Band Rejection

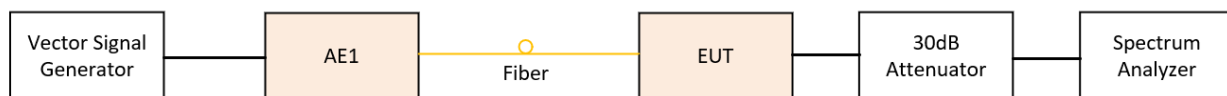
Governing Doc	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90		Room Temperature (°C)	20.5	
Test Procedure	ANSI C63.26-2015, Section 7.2.3.2 KDB 935210 D05, v01r04, Clause 3.3, 4.3		Relative Humidity (%)	38.6	
Test Location	Richmond		Barometric Pressure (kPa)	101.8	
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"/> Product Passband $\pm$ 250%				
Detector:	<input checked="" type="checkbox"/> Peak				
RBW/VBW:	<input checked="" type="checkbox"/> 1 to 5% of the EUT passband / $\geq$ 3 X RBW				
Type of Facility:	<input checked="" type="checkbox"/> Tabletop				
Distance:	<input checked="" type="checkbox"/> Direct				
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

The procedure used was ANSI/TIA-603-E-2016 and FCC KDB 935210 D05 Indus Booster Basic Meas v01r03. The signal booster was set to maximum gain. A swept CW signal was set to the range of  $\pm 250$  % of the product pass band. The CW amplitude was set to 3 dB below the AGC threshold so that the ALC should not activate throughout the test.

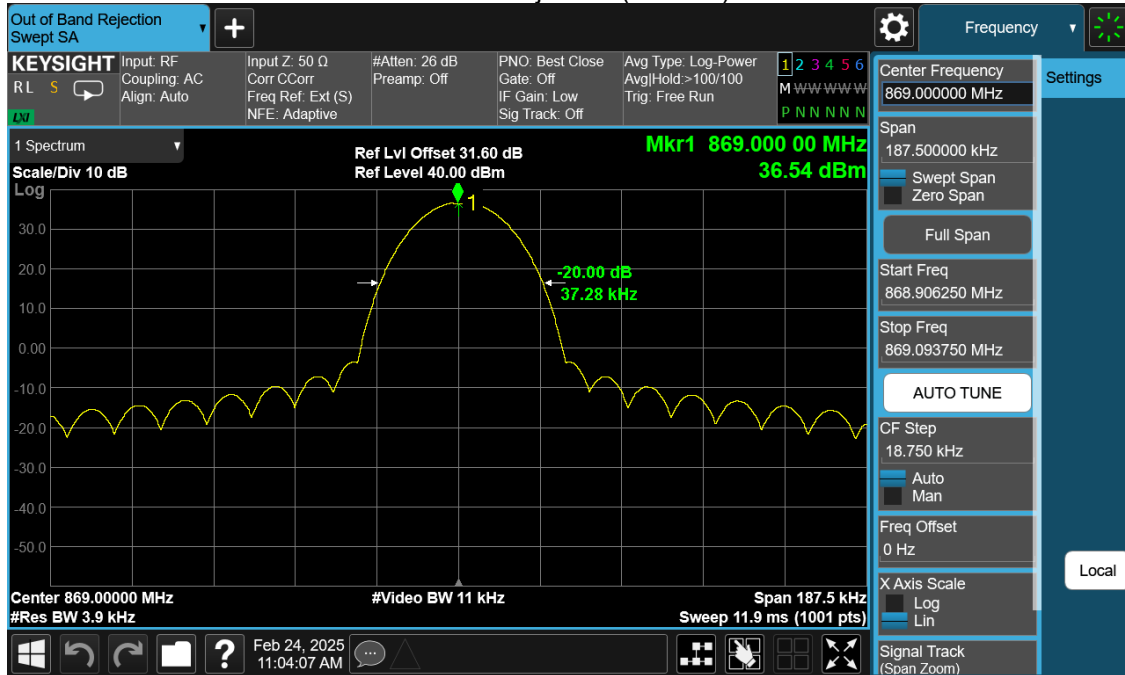
After the max-hold sweep trace was completed, a marker was set to the peak amplitude, and a 20dB bandwidth was measured between two additional markers fall 20 dB from the peak.

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

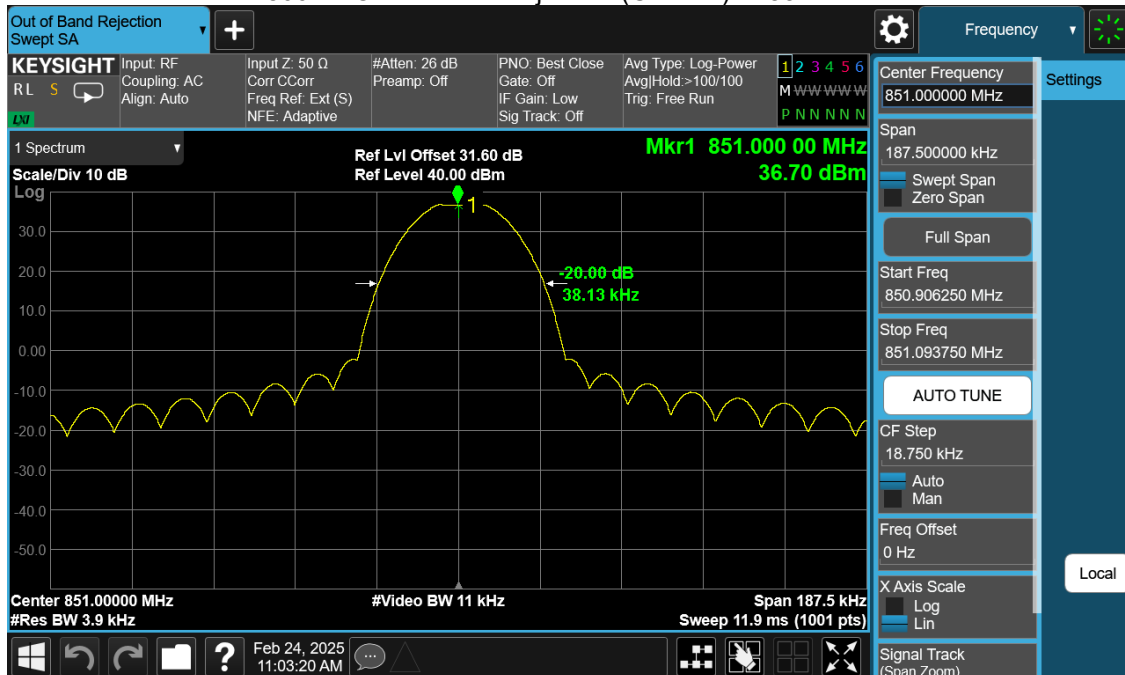


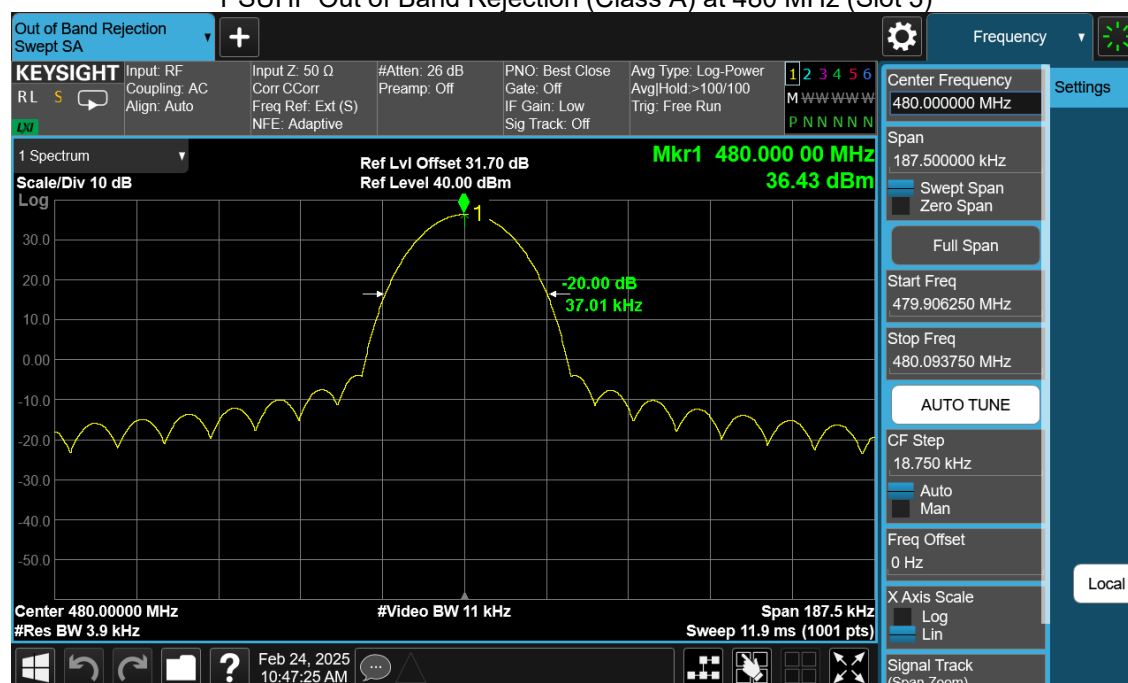
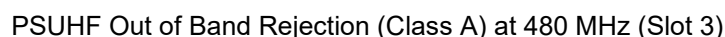
## Test results

800PS Out of Band Rejection (Class A) at 869 MHz

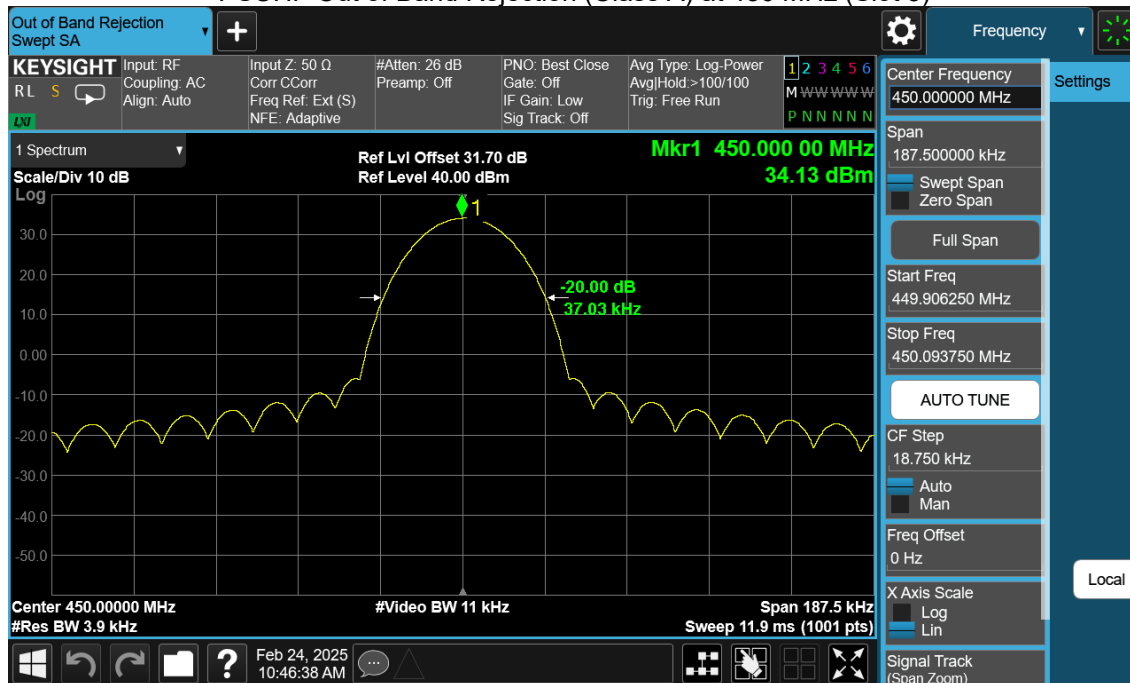


800PS Out of Band Rejection (Class A) at 851 MHz

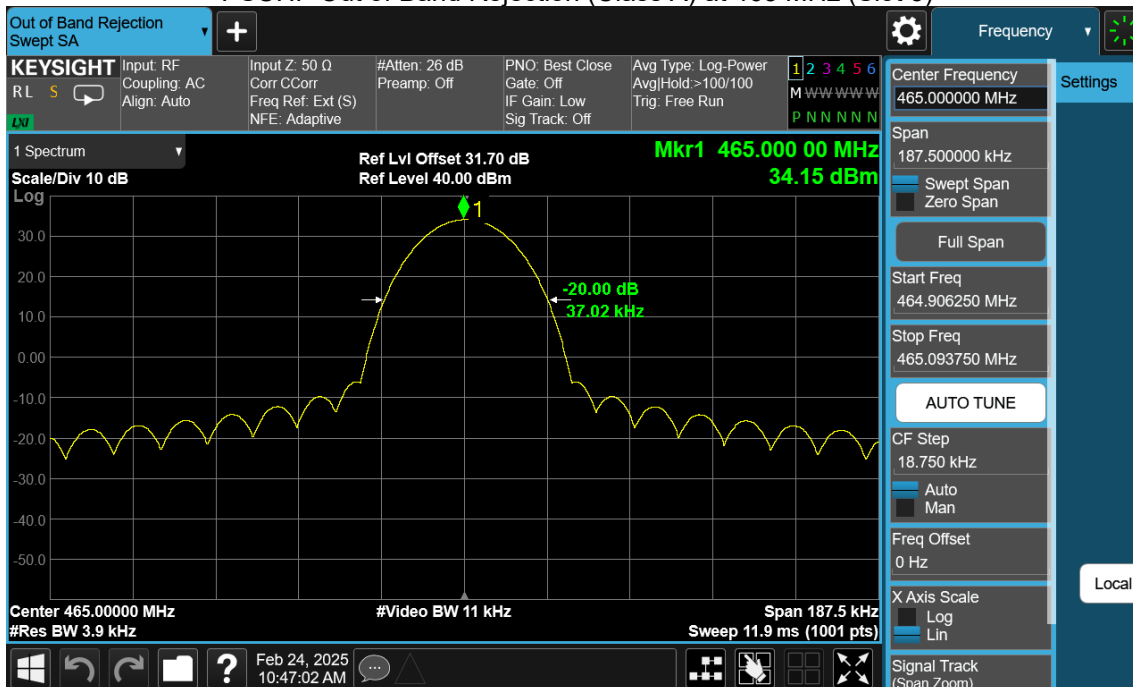




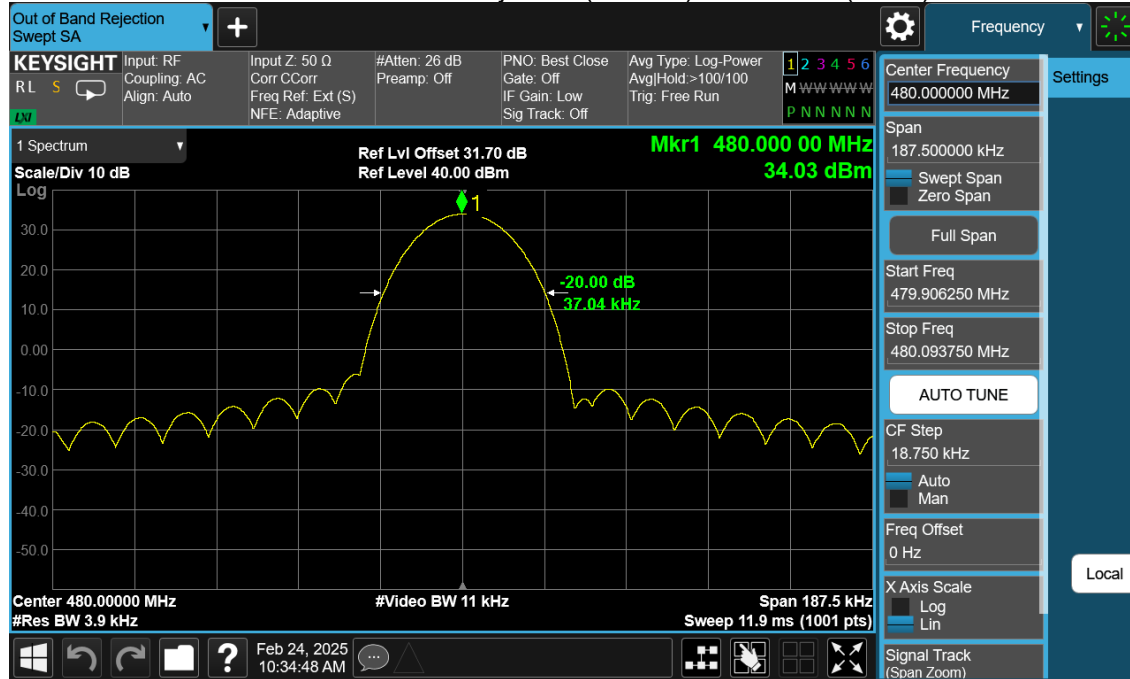
### PSUHF Out of Band Rejection (Class A) at 450 MHz (Slot 3)



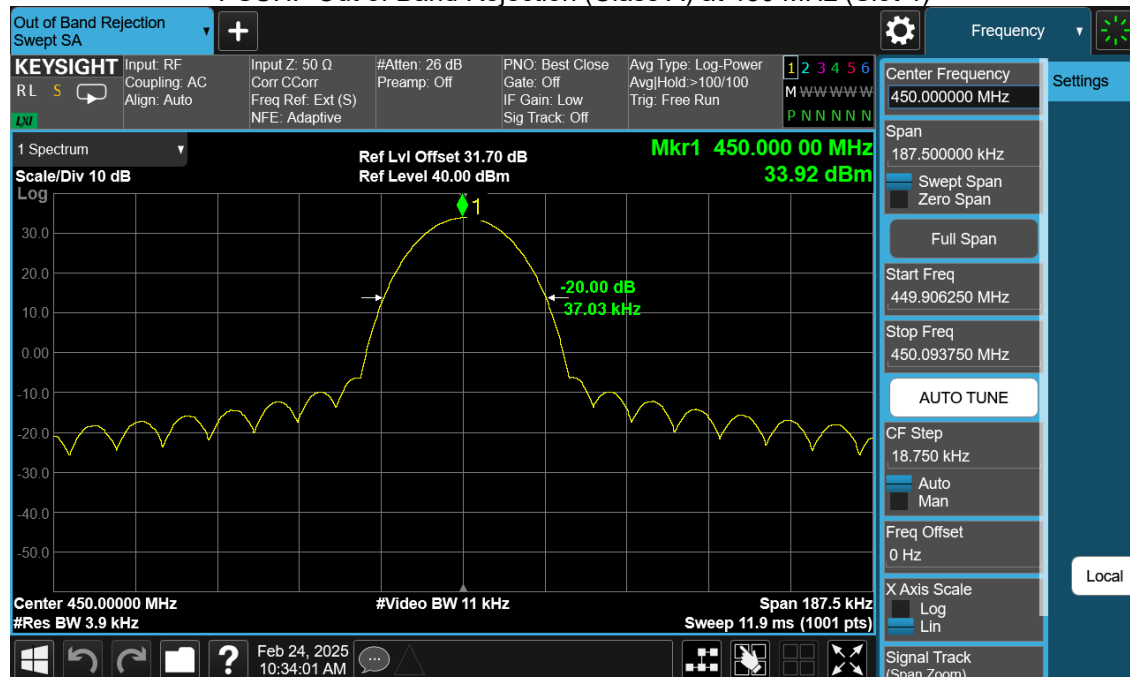
### PSUHF Out of Band Rejection (Class A) at 465 MHz (Slot 3)

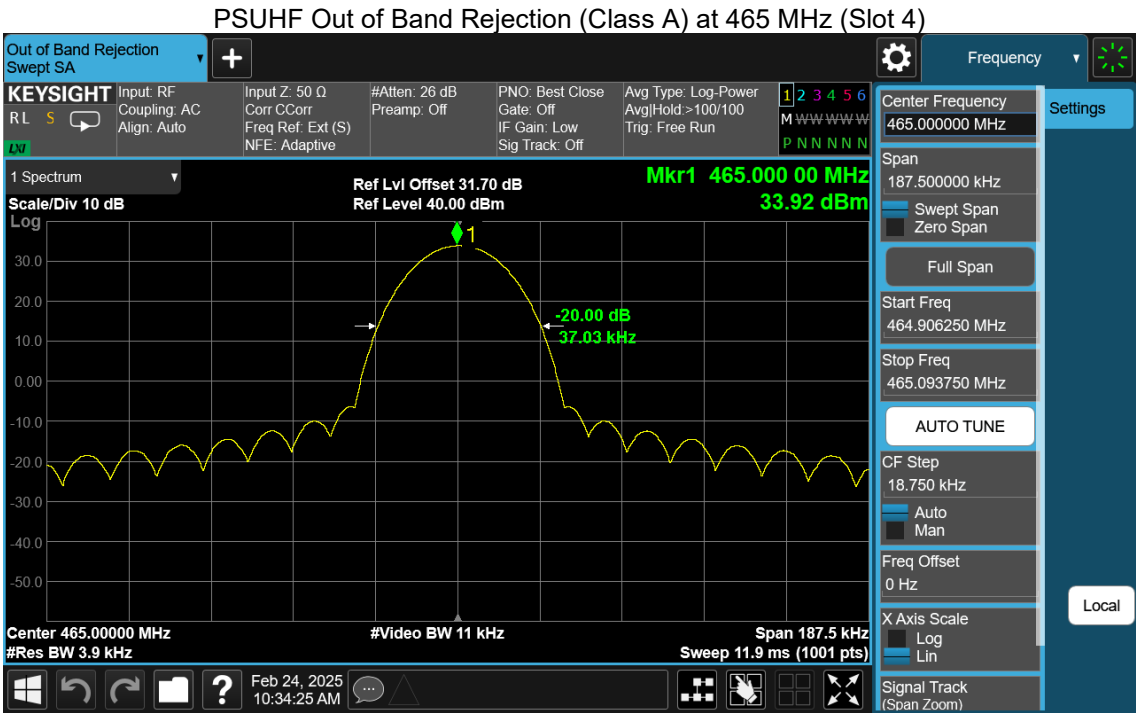


### PSUHF Out of Band Rejection (Class A) at 480 MHz (Slot 4)



### PSUHF Out of Band Rejection (Class A) at 450 MHz (Slot 4)







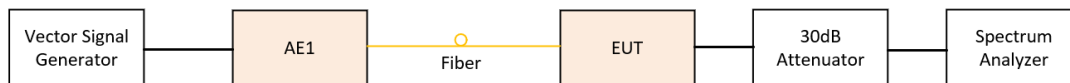
#### 4. Input-Versus-Output Signal Comparison

Governing Doc	FCC Part 90.210 (j) (h) (g) (c) (d) and (e)		Room Temperature (°C)	20.5	
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r03		Relative Humidity (%)	38.6	
Test Location	Richmond		Barometric Pressure (kPa)	101.8	
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"/> 451 MHz – 469 MHz; <input checked="" type="checkbox"/> 850 MHz – 880 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
RBW/VBW:	<input checked="" type="checkbox"/> 100 Hz				
Type of Facility:	<input checked="" type="checkbox"/> Testbench				
Distance:	<input checked="" type="checkbox"/> direct connect				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Signal of all types of modulation is contained within the emission mask.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

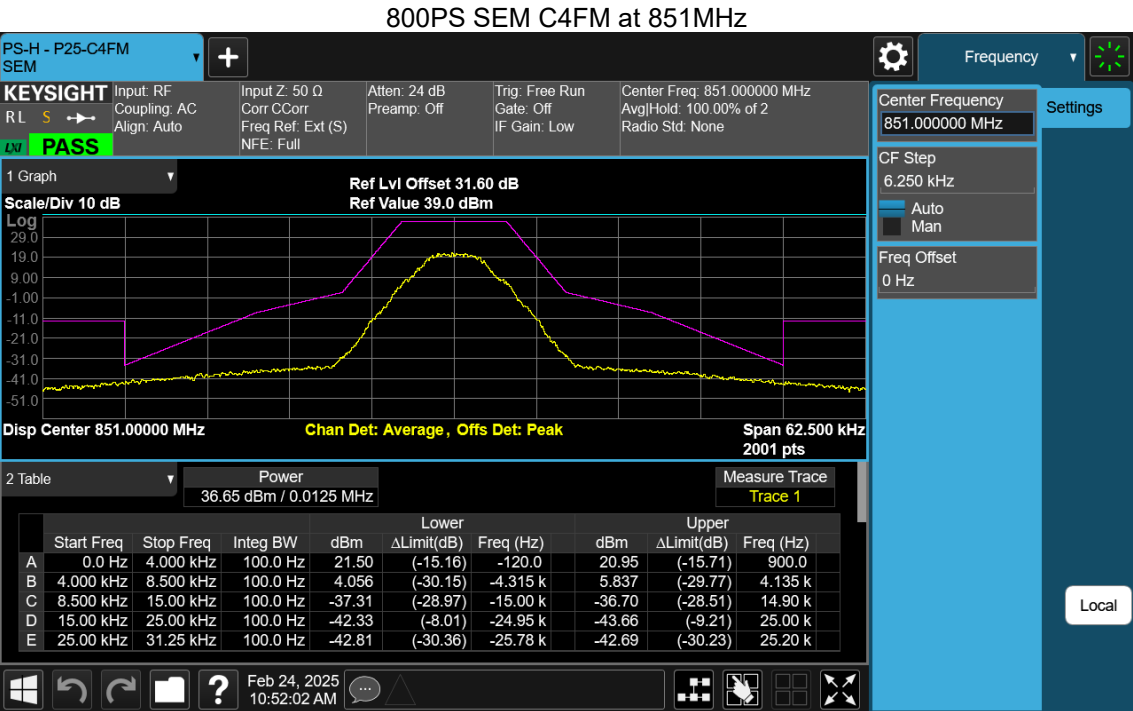
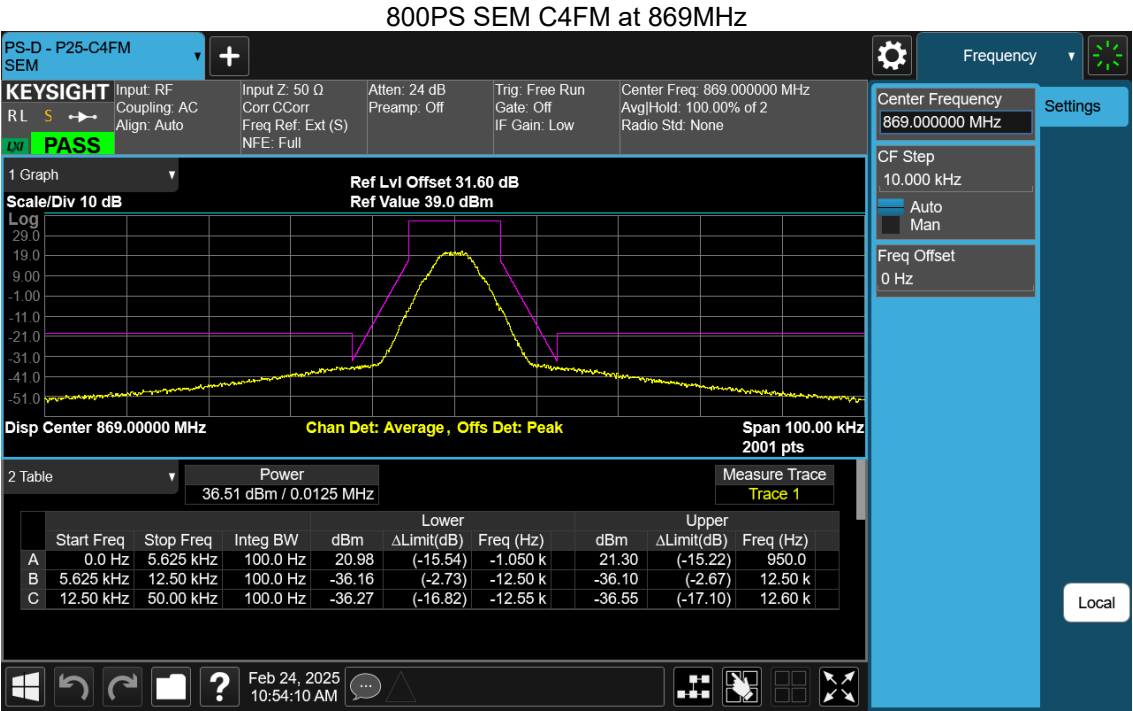
#### Test setup

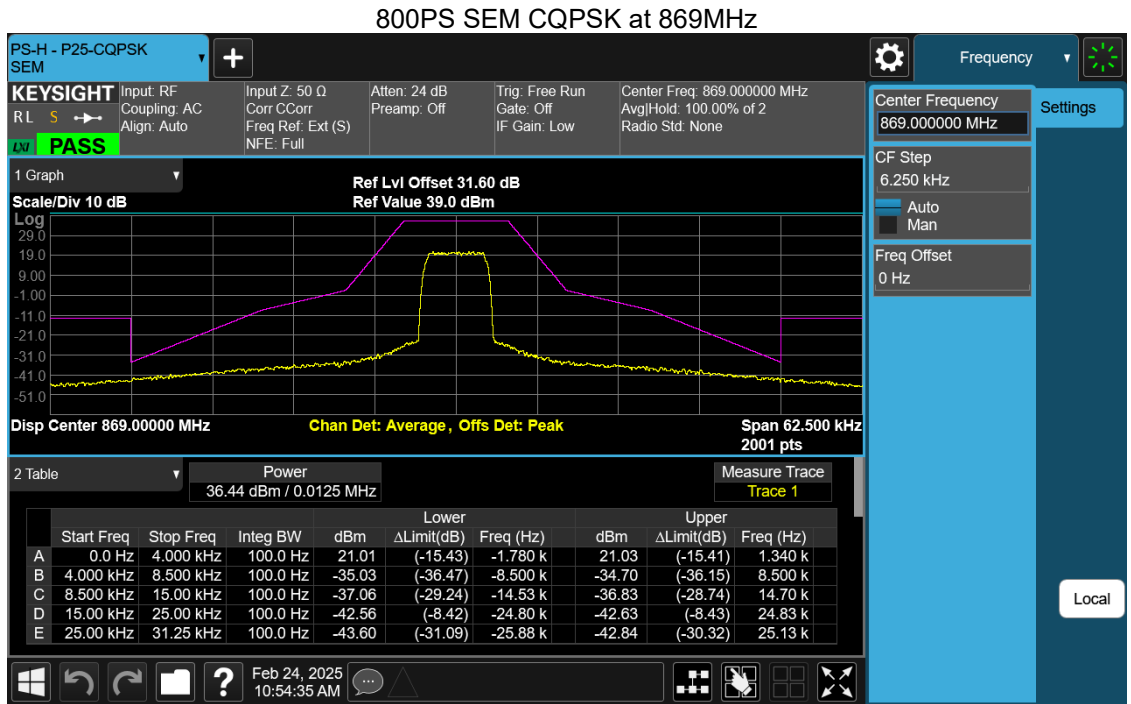
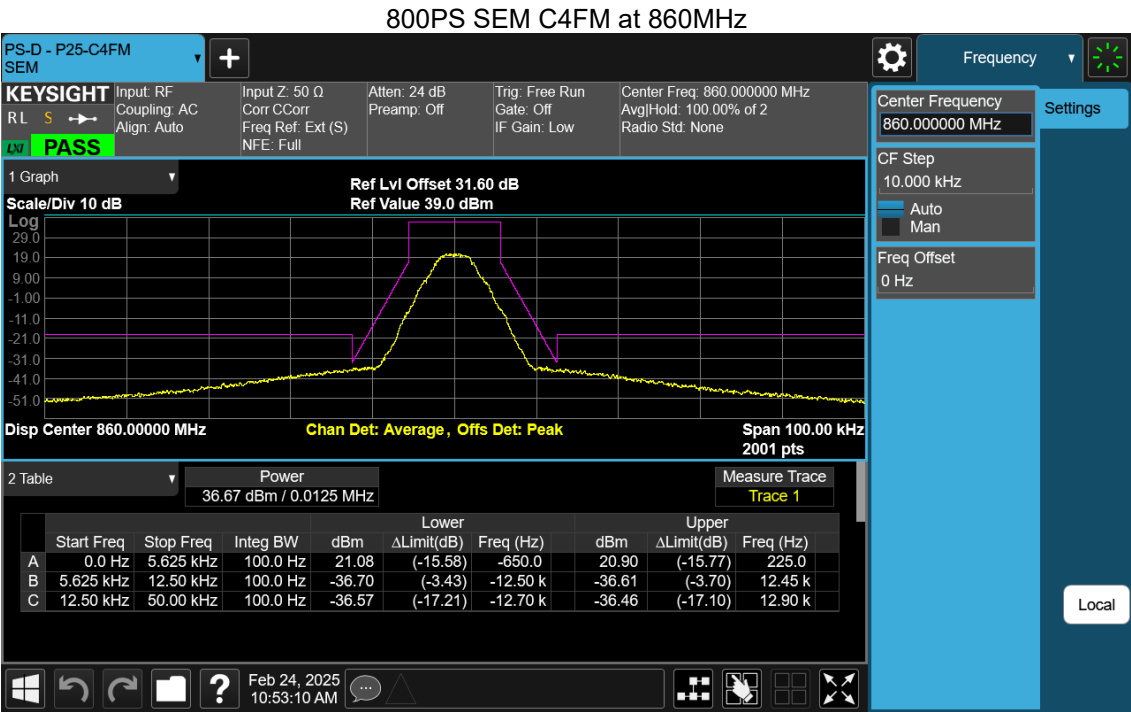
Spectrum Emission Mask is measured by connecting a Spectrum Analyzer to the RF output connector. The input power was adjusted to produce maximum output power on the antenna port. The reference level was measured with integrated BW of the designated channel BW. The emission was measured with RBW 100 Hz.

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

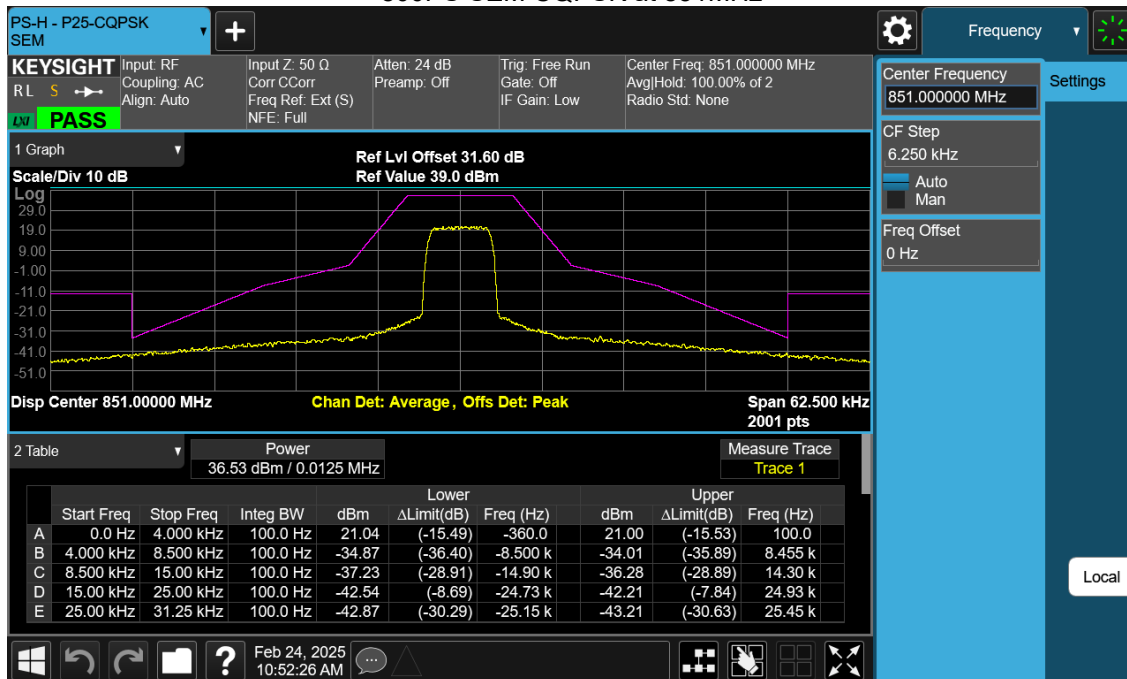


Test results

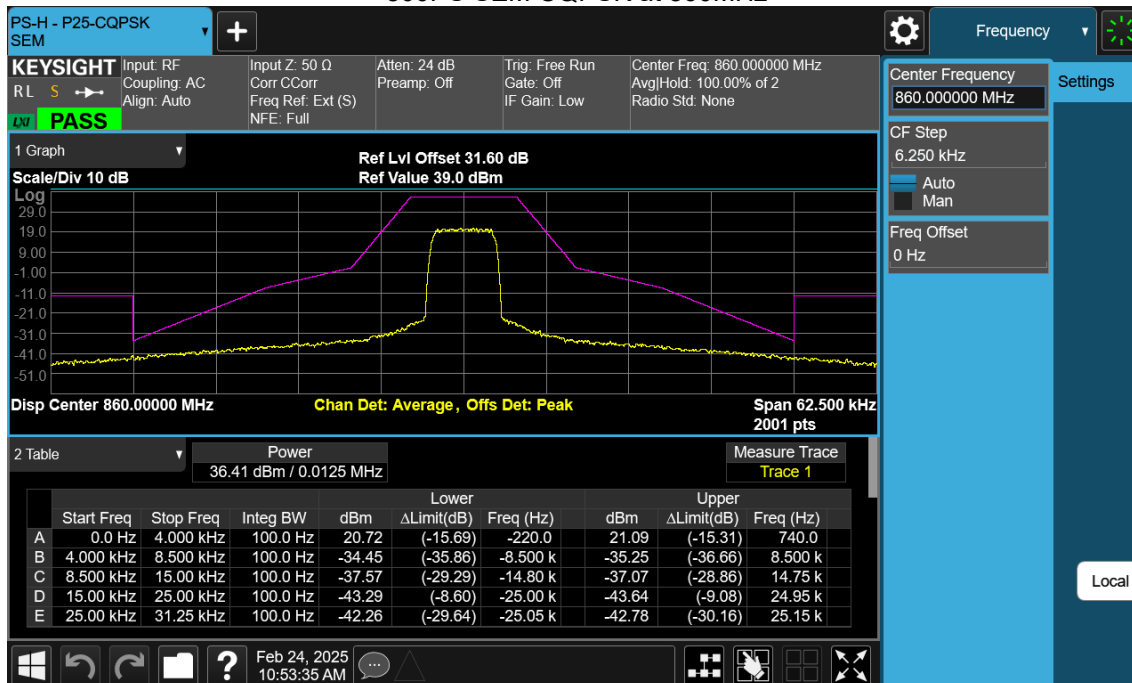


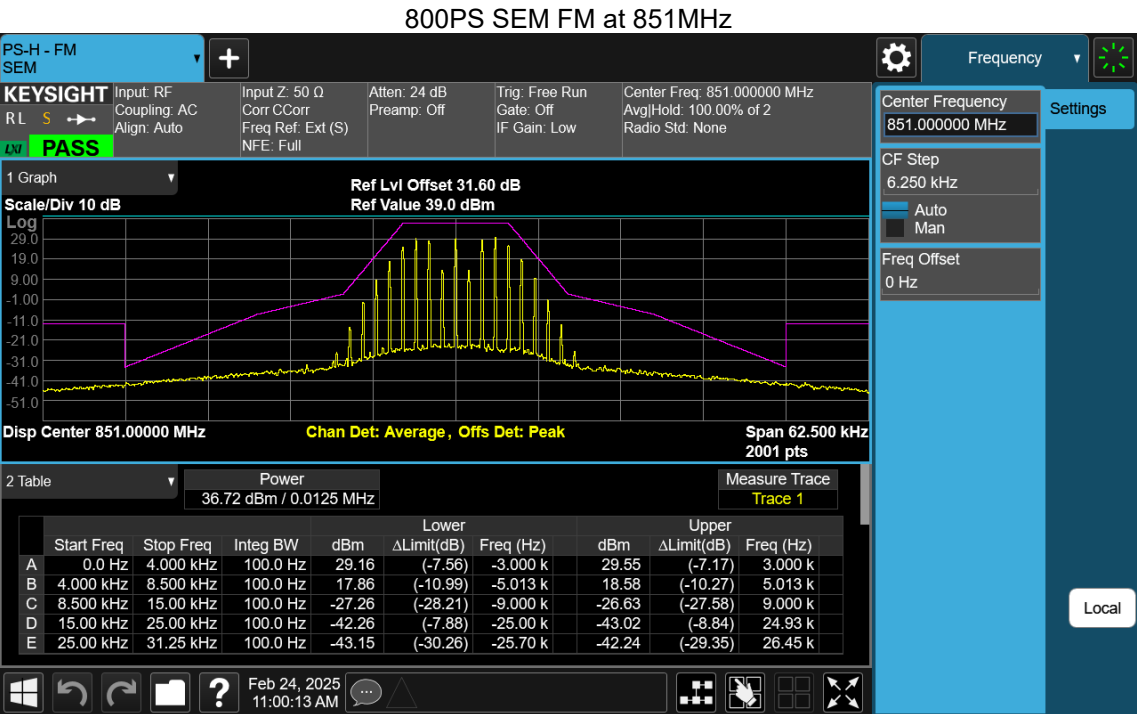
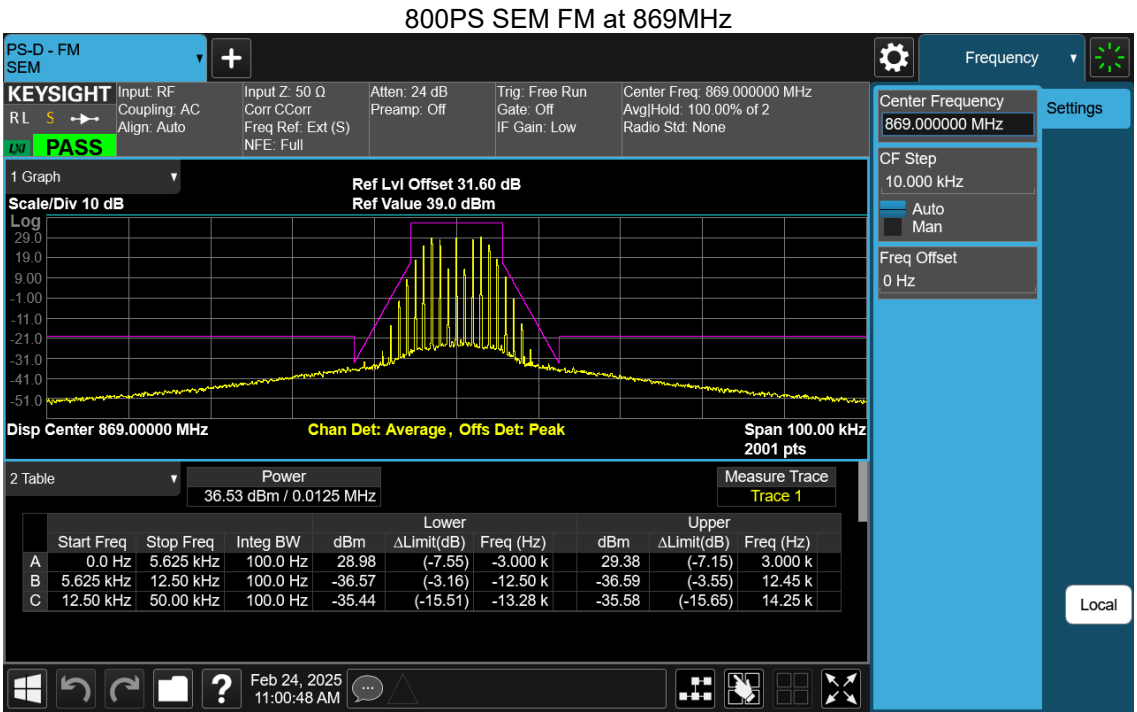


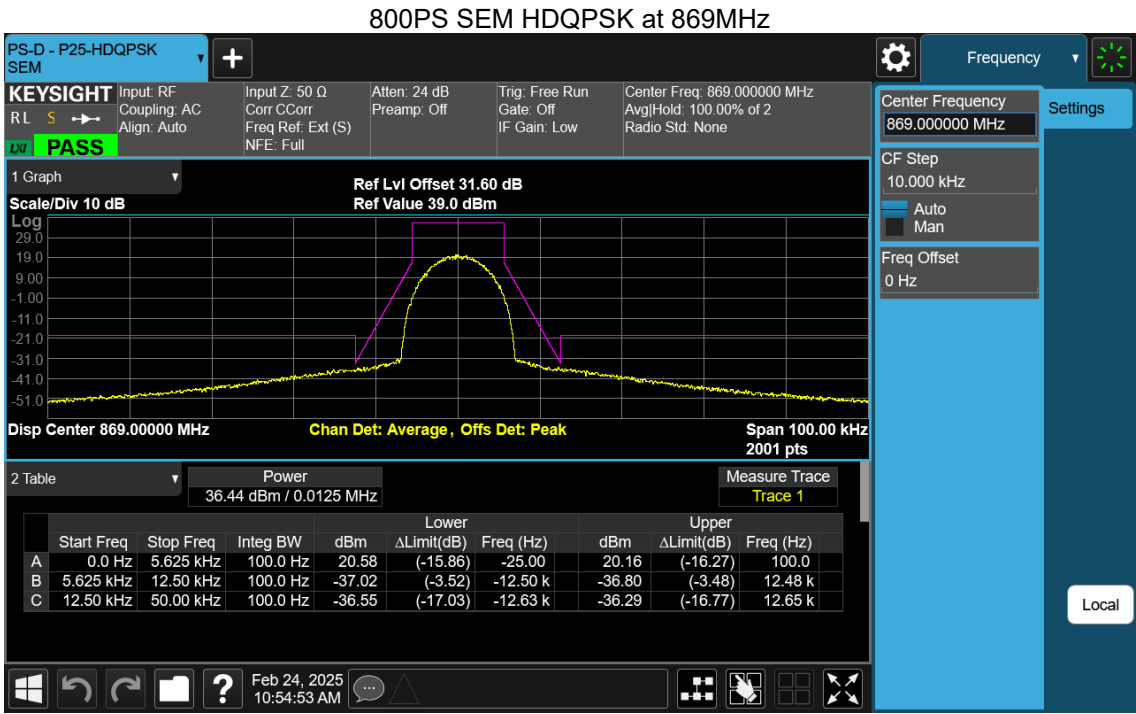
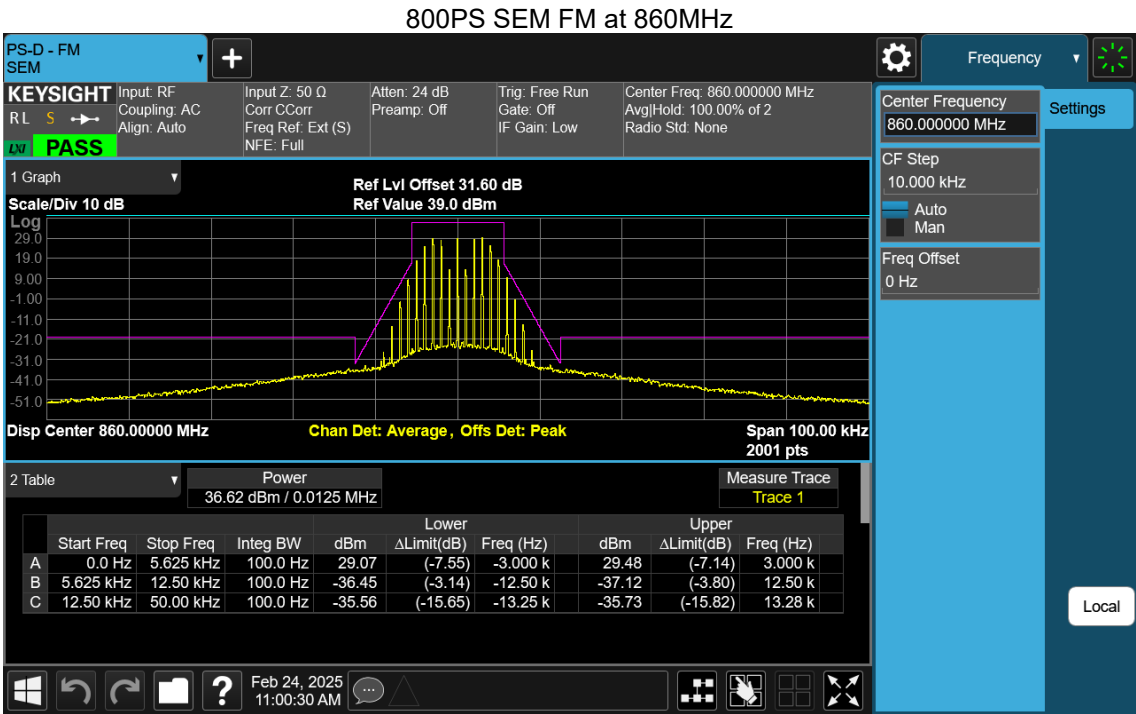
### 800PS SEM CQPSK at 851MHz



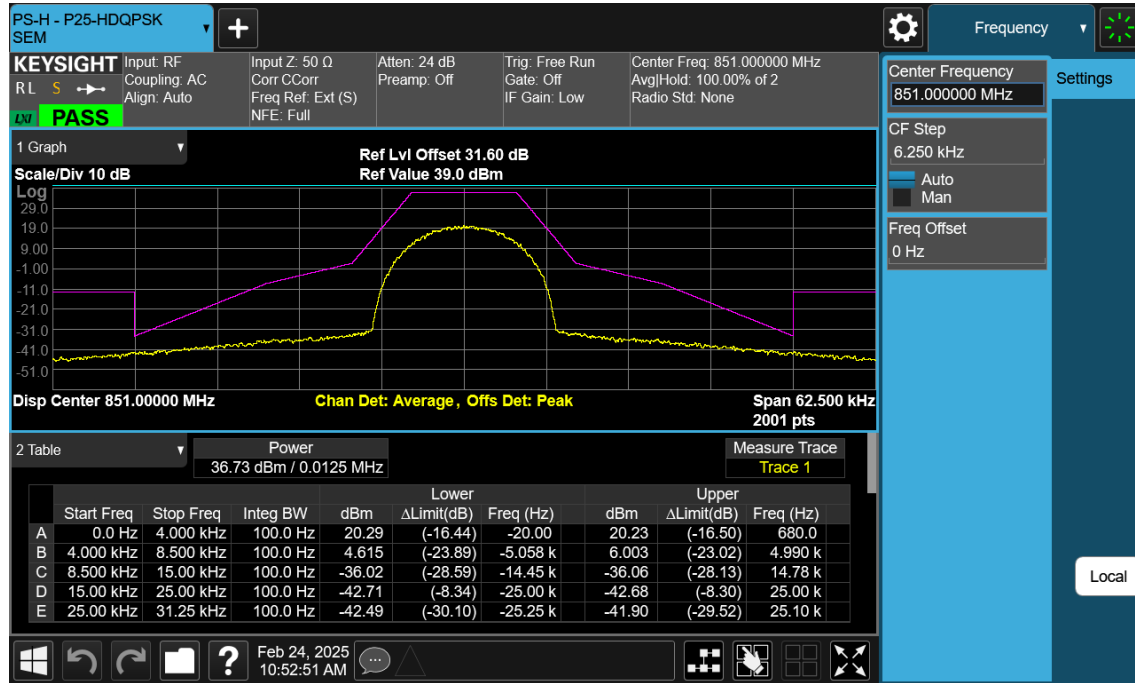
### 800PS SEM CQPSK at 860MHz



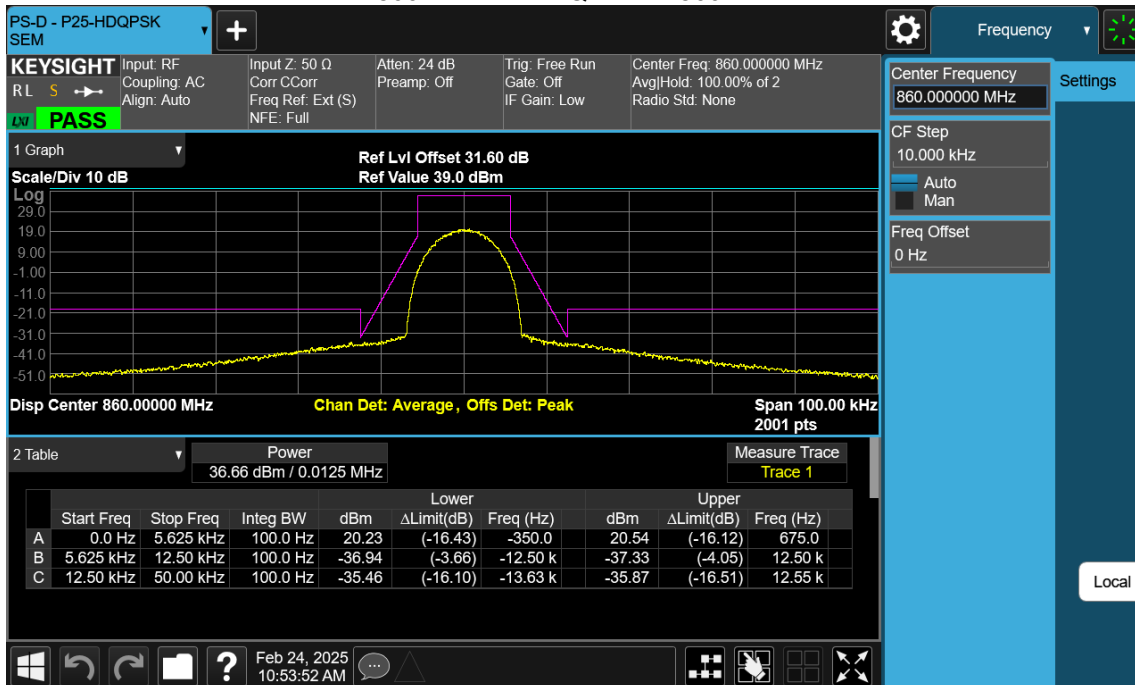


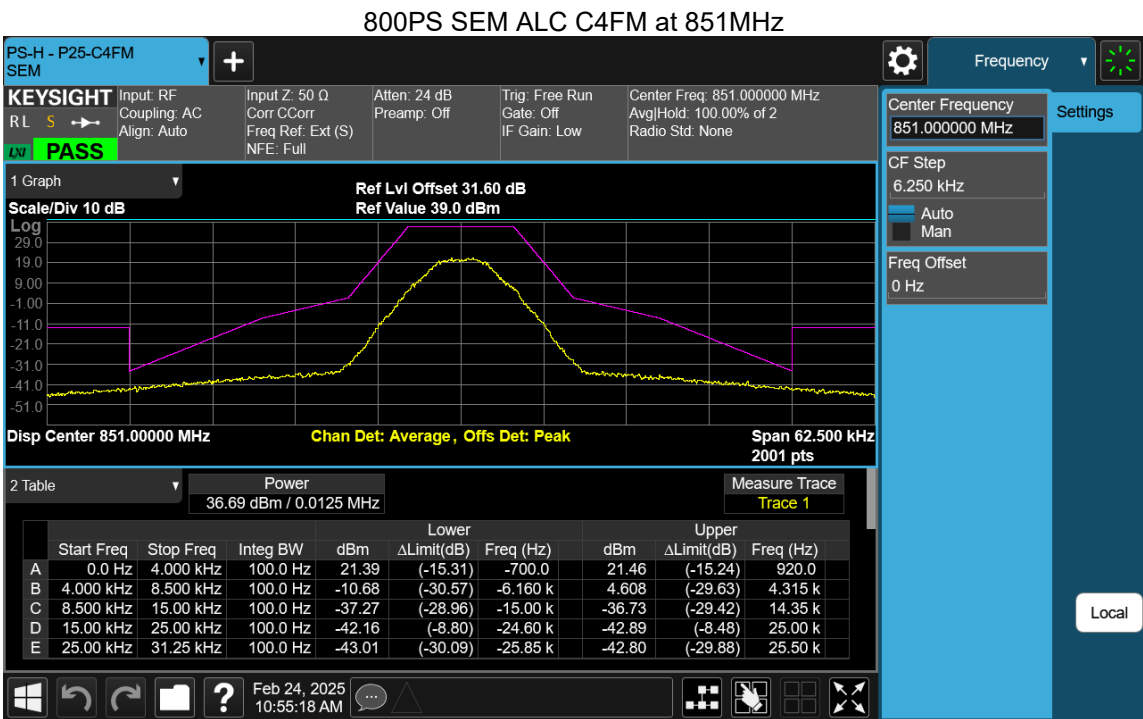
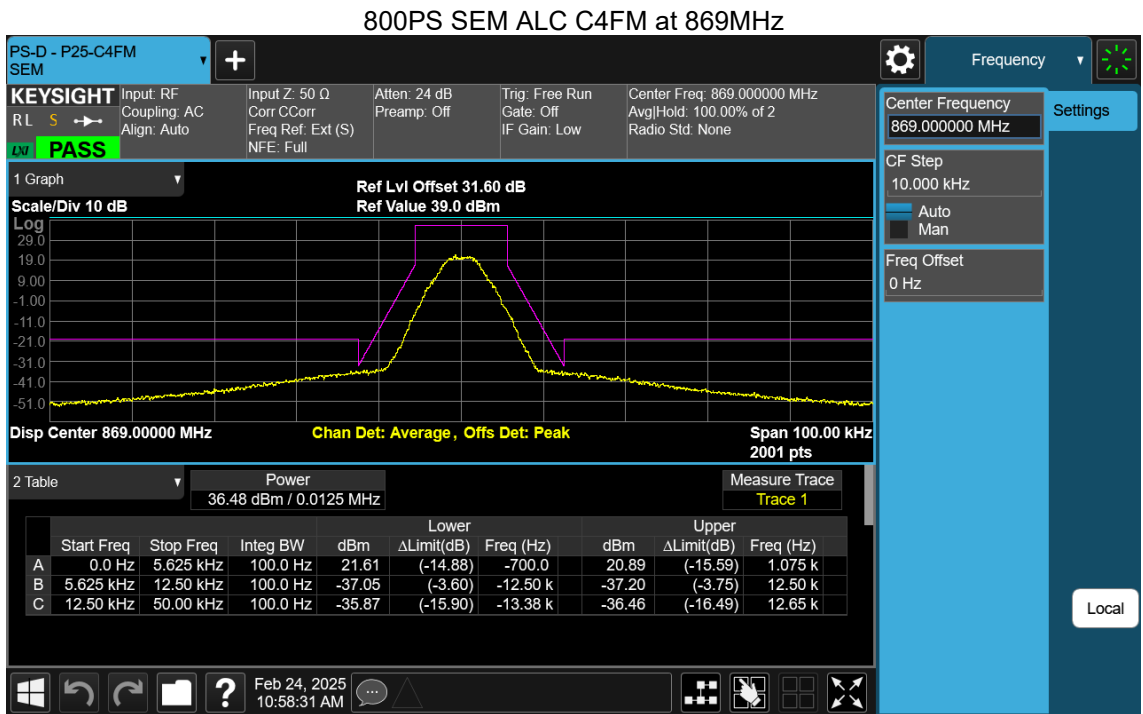


### 800PS SEM HDQPSK at 851MHz

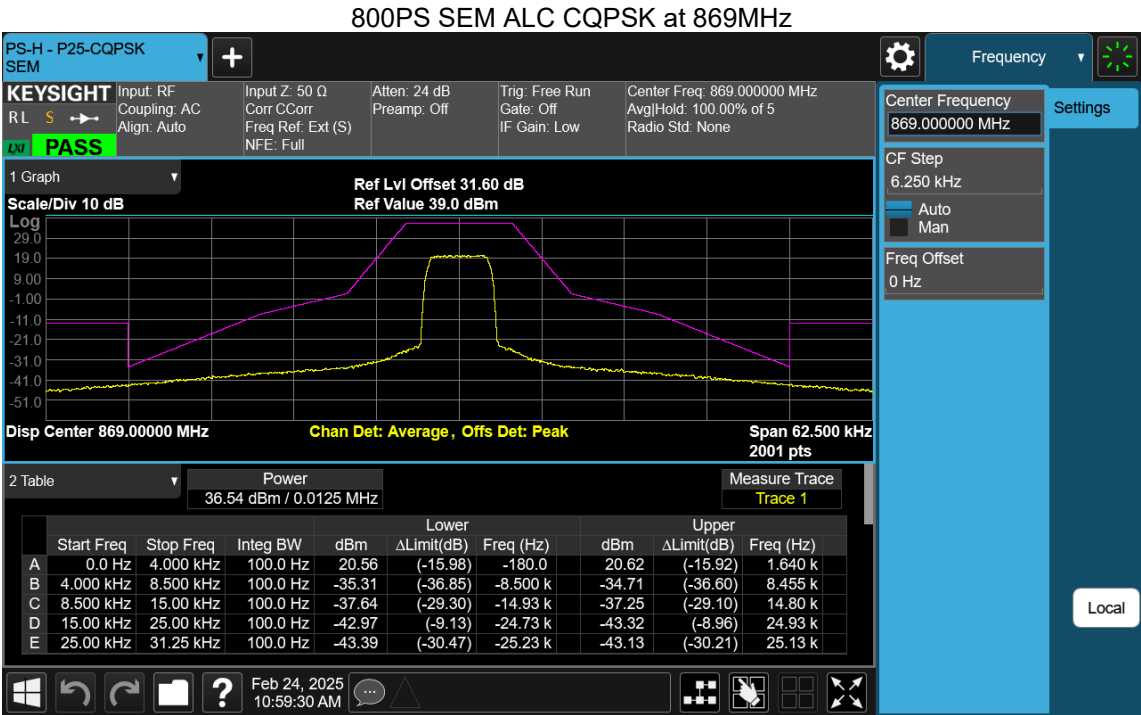
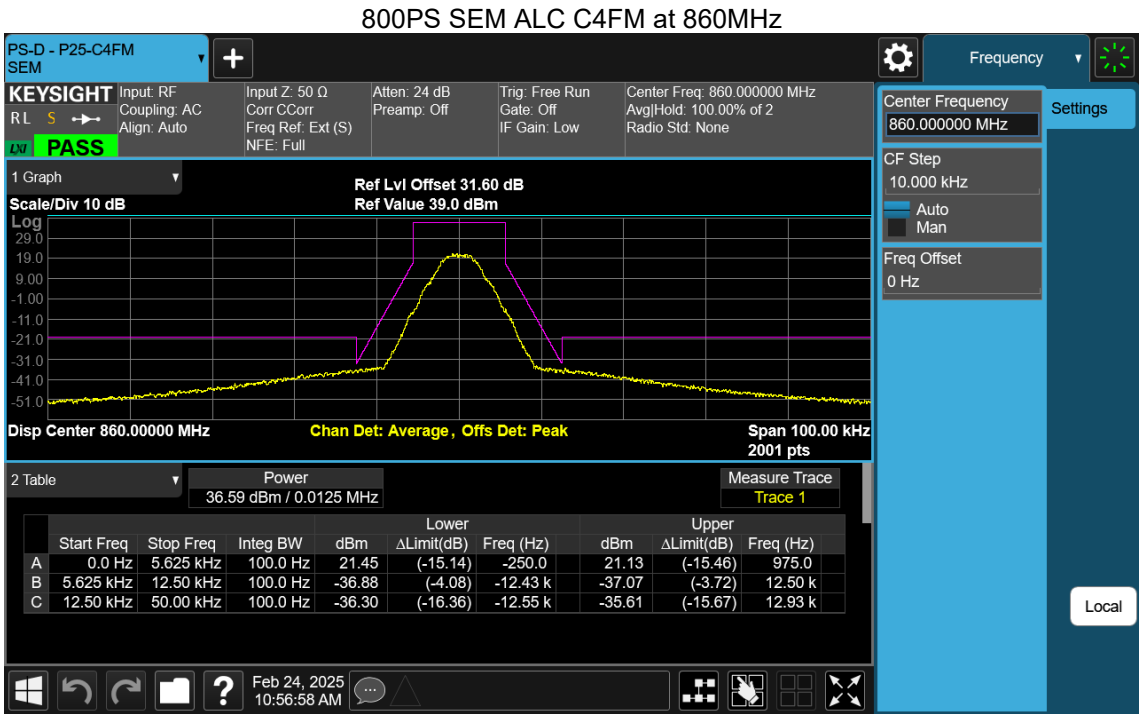


### 800PS SEM HDQPSK at 860MHz

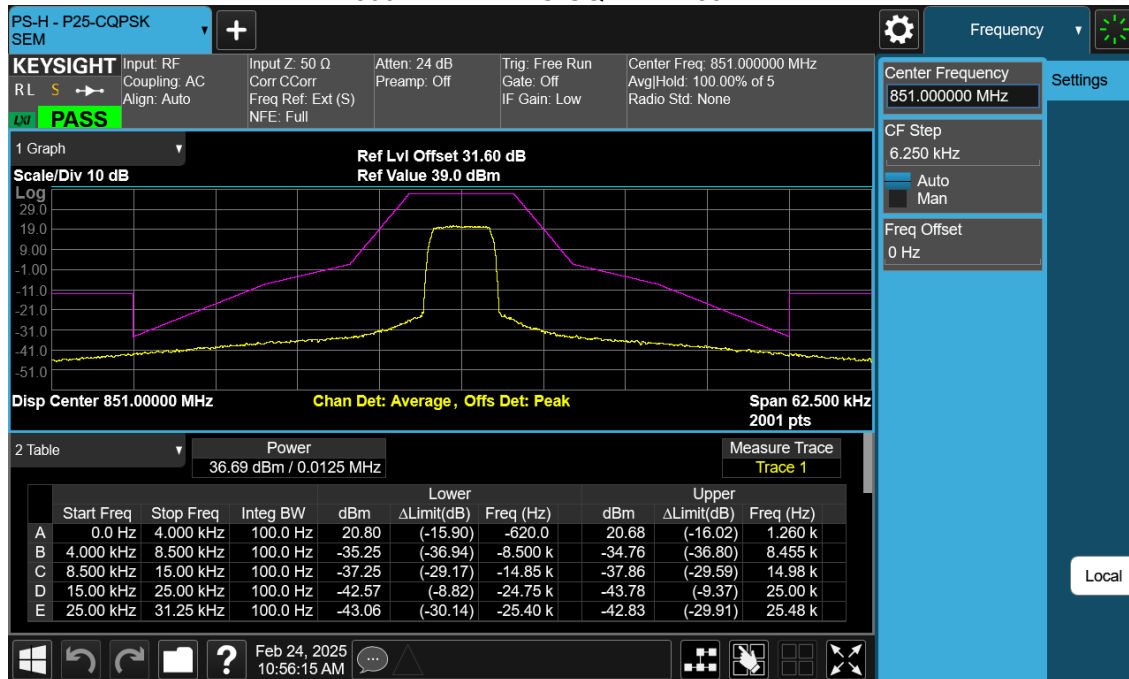




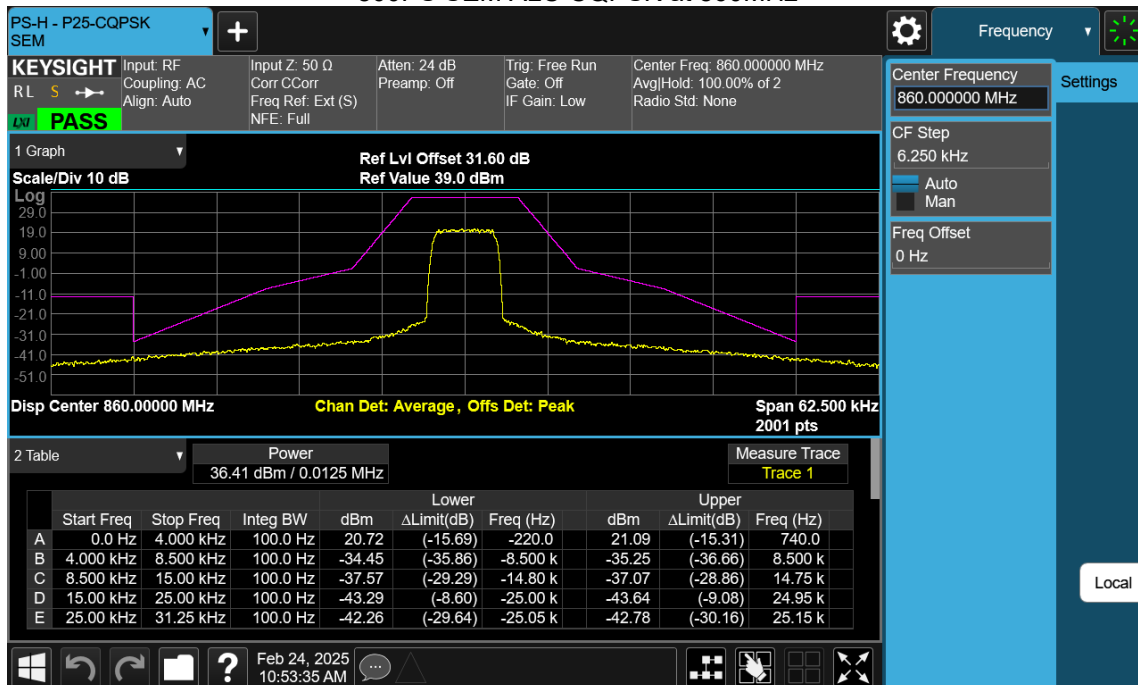


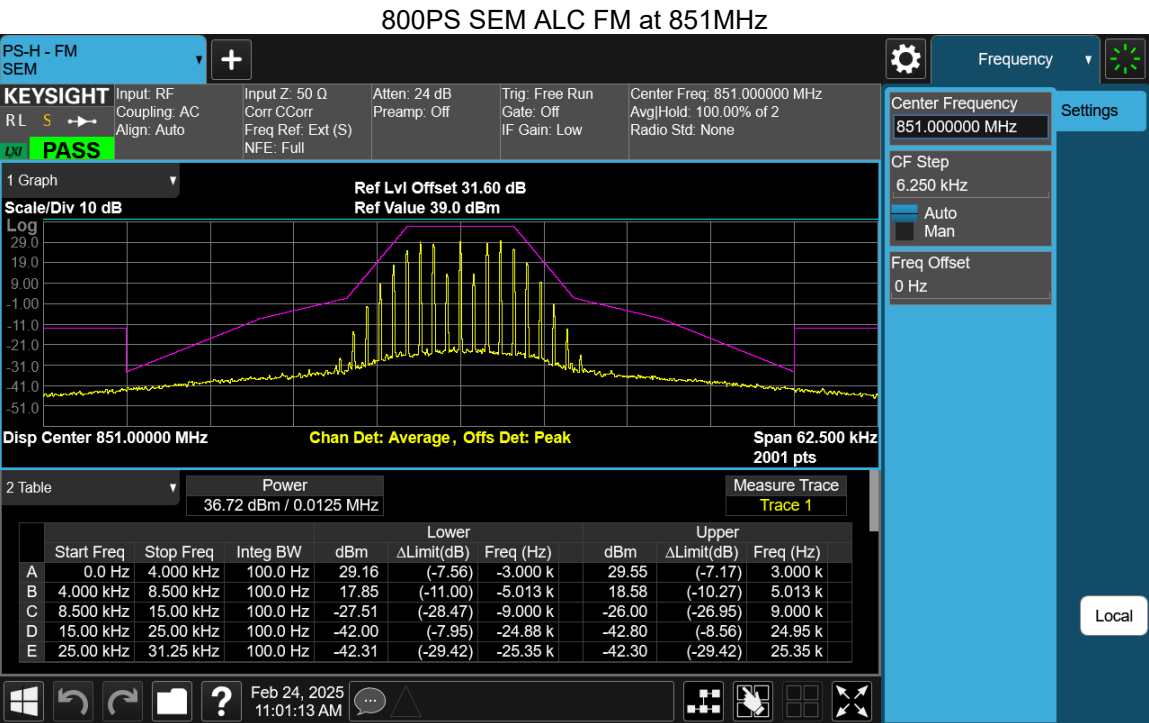
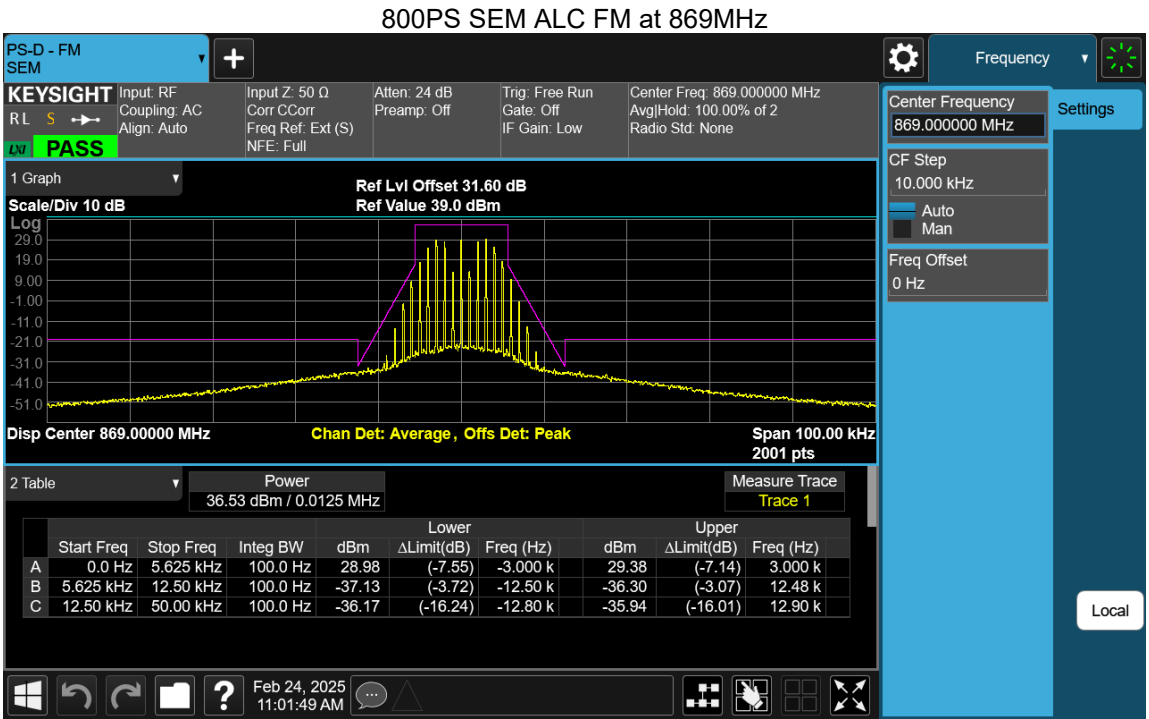


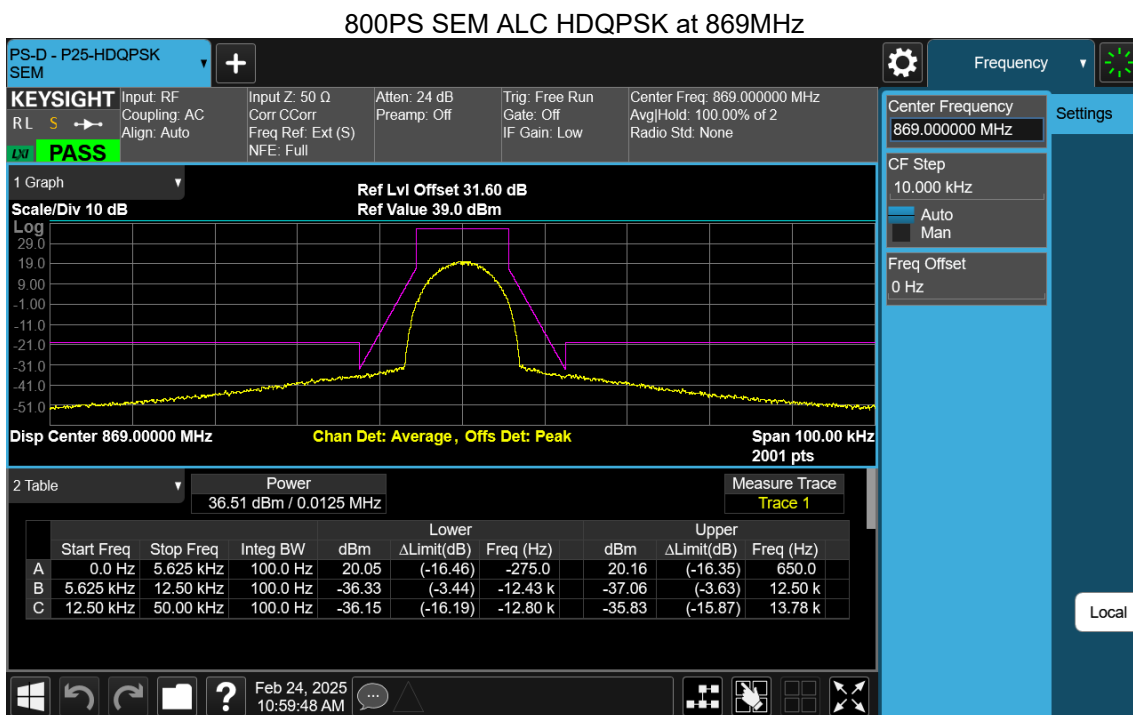
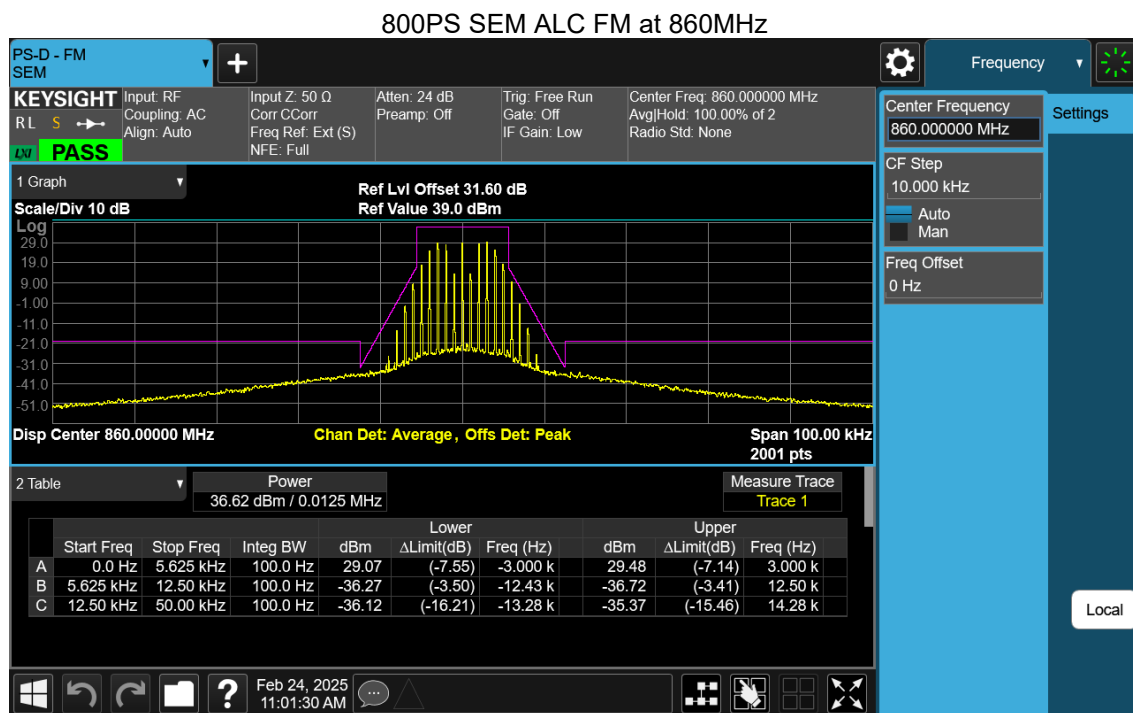
### 800PS SEM ALC CQPSK at 851MHz



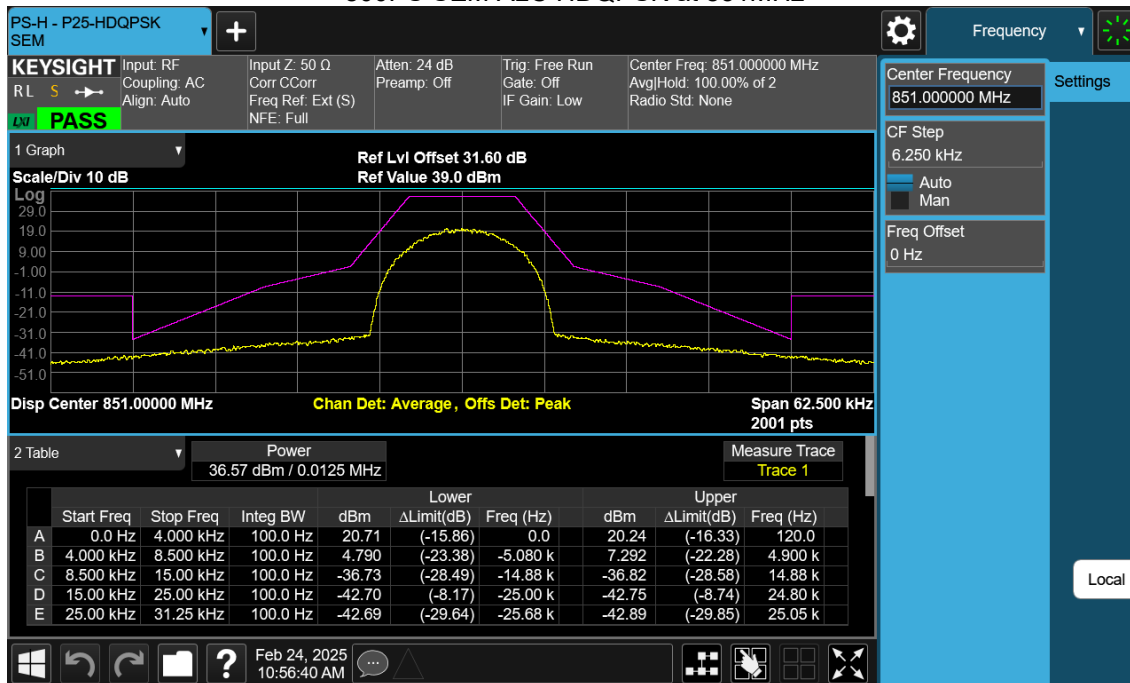
### 800PS SEM ALC CQPSK at 860MHz



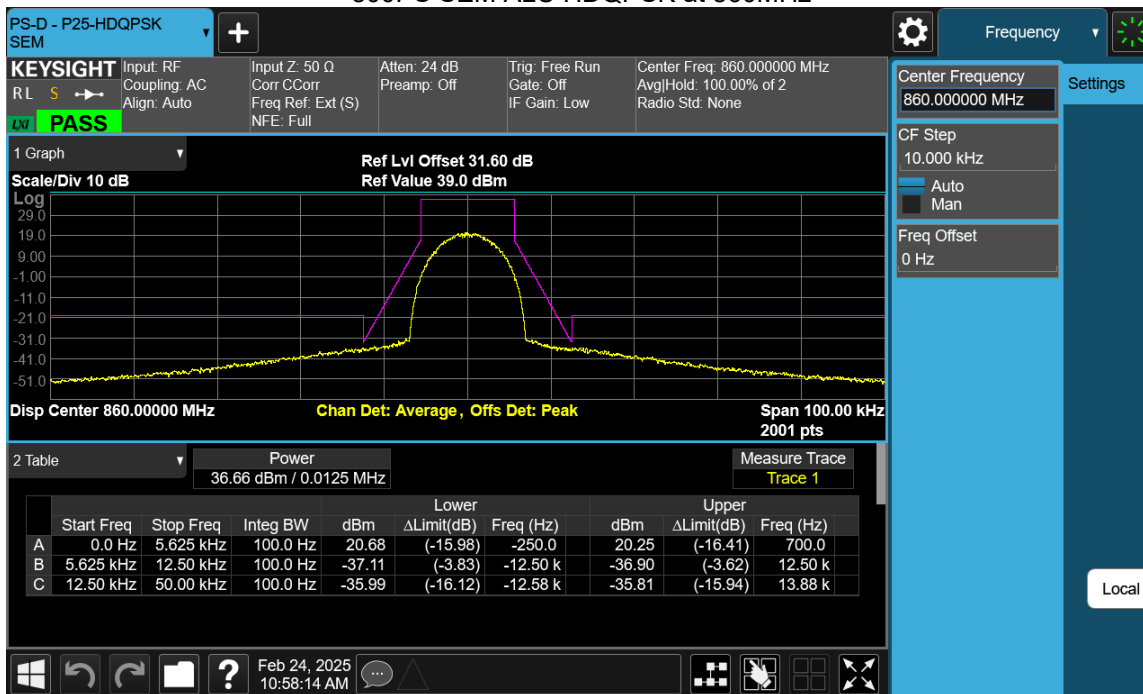


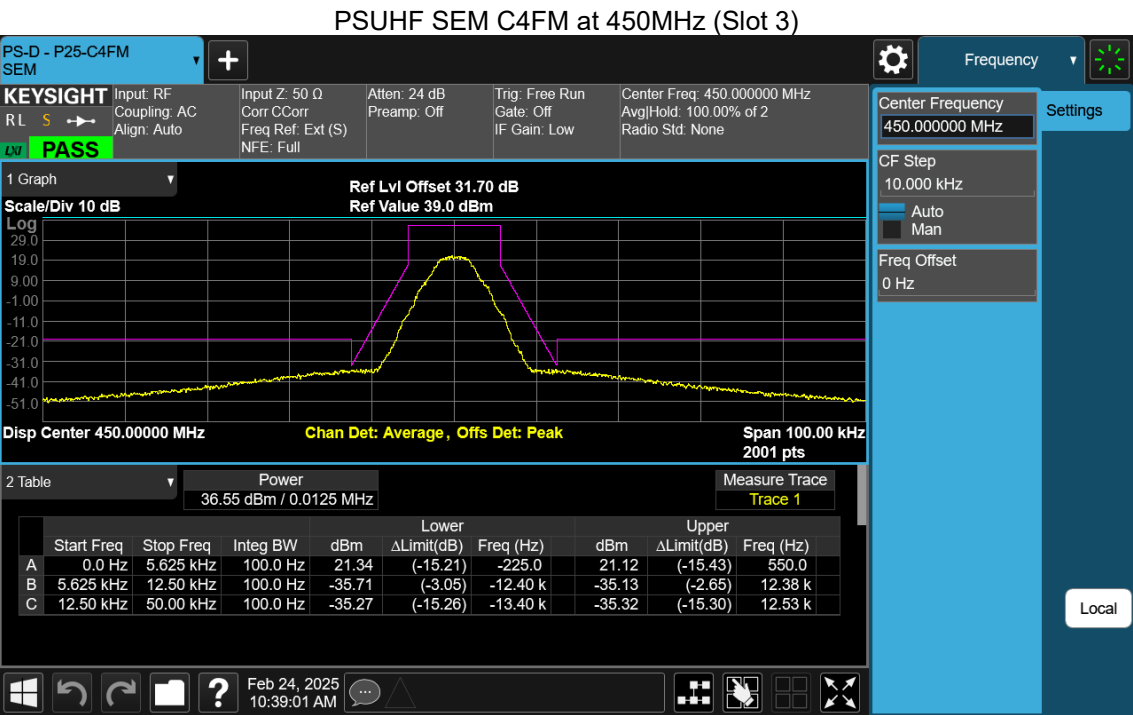
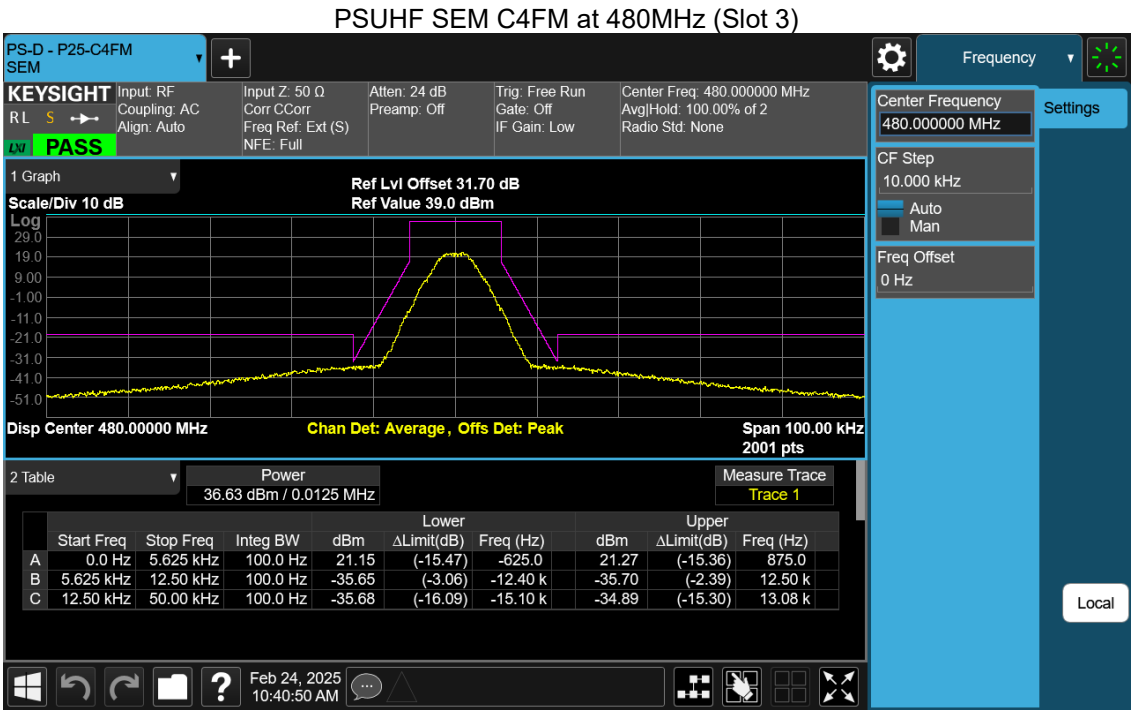


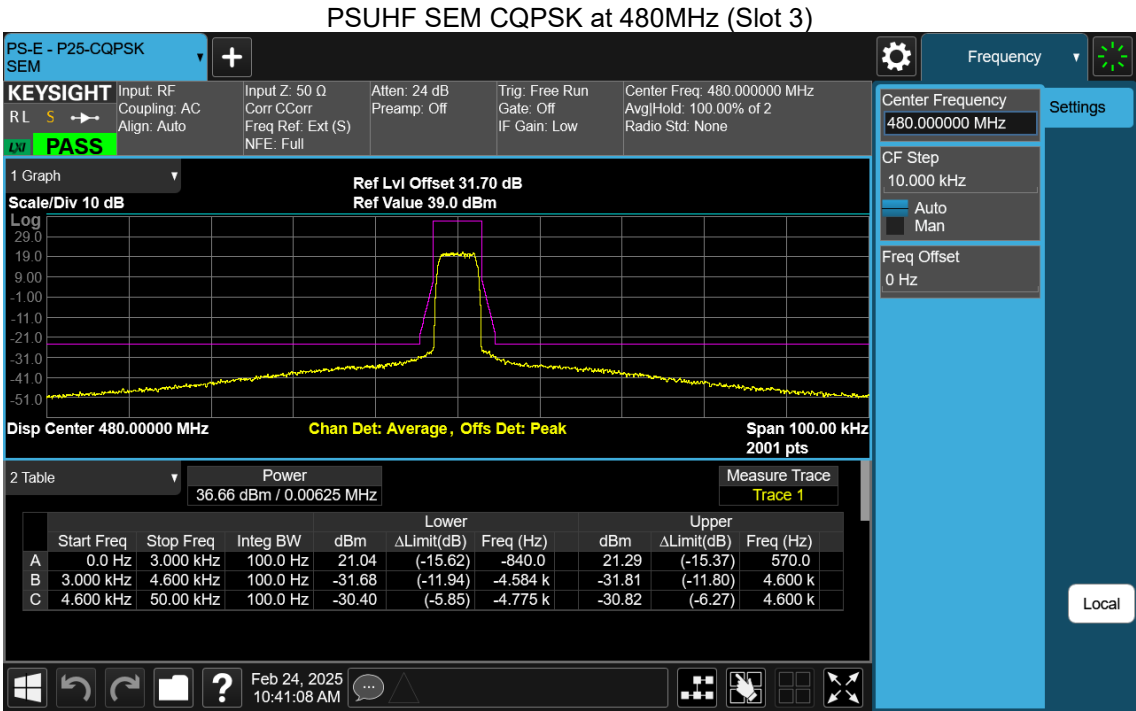
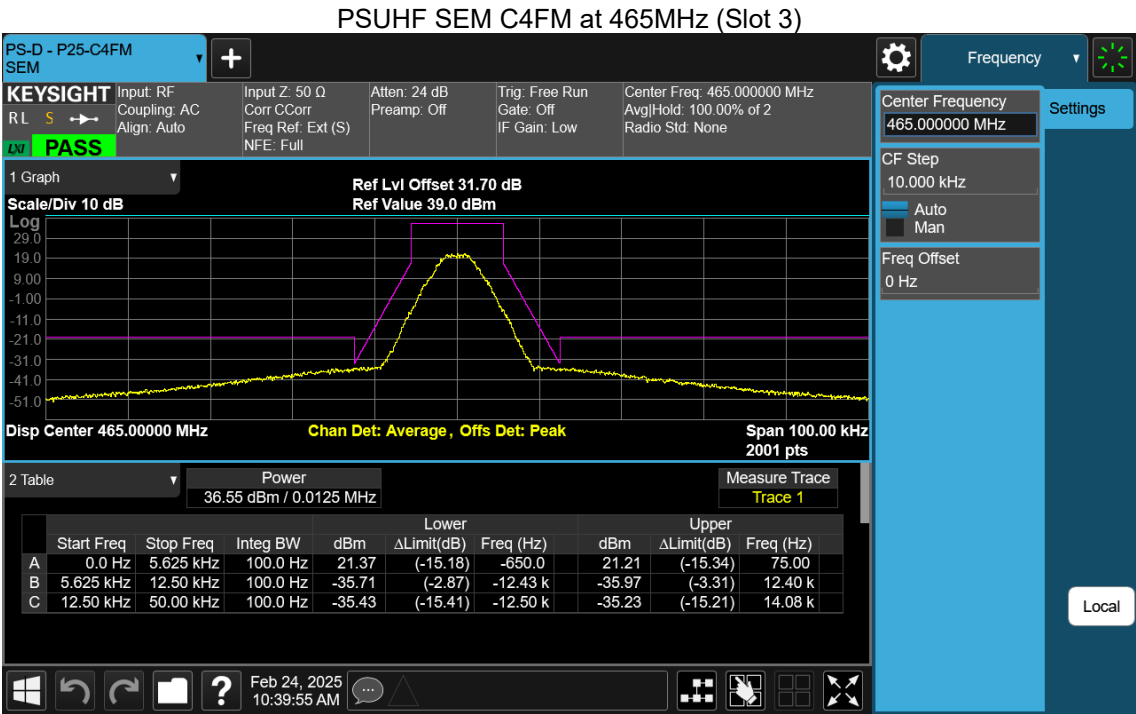
### 800PS SEM ALC HDQPSK at 851MHz



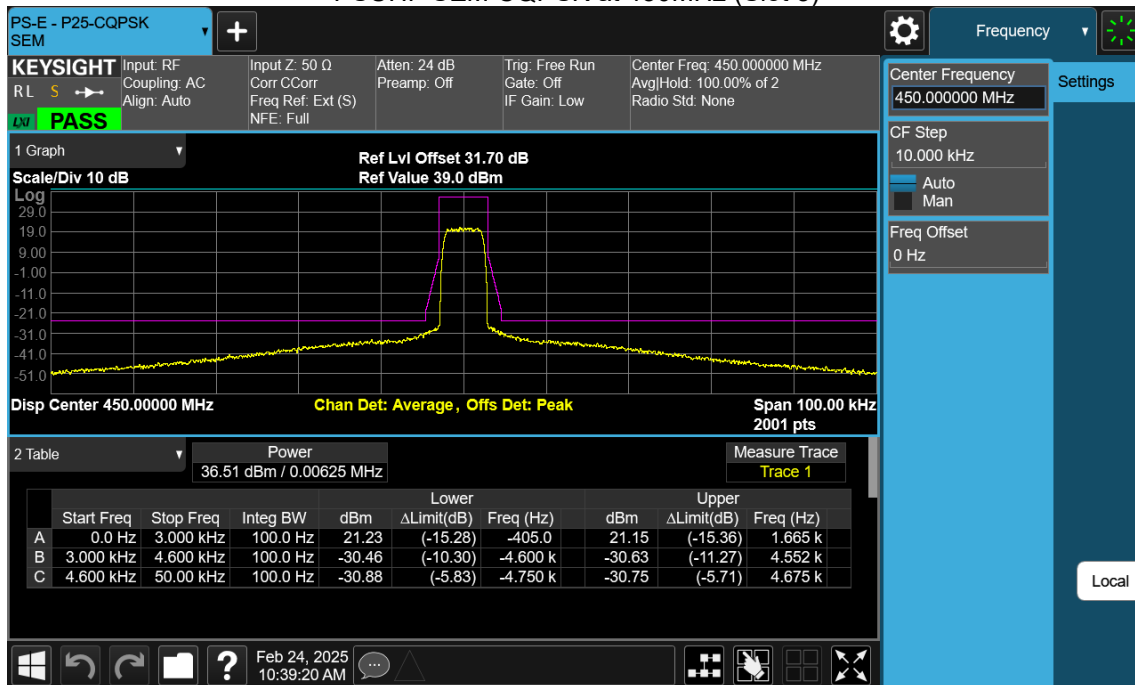
### 800PS SEM ALC HDQPSK at 860MHz



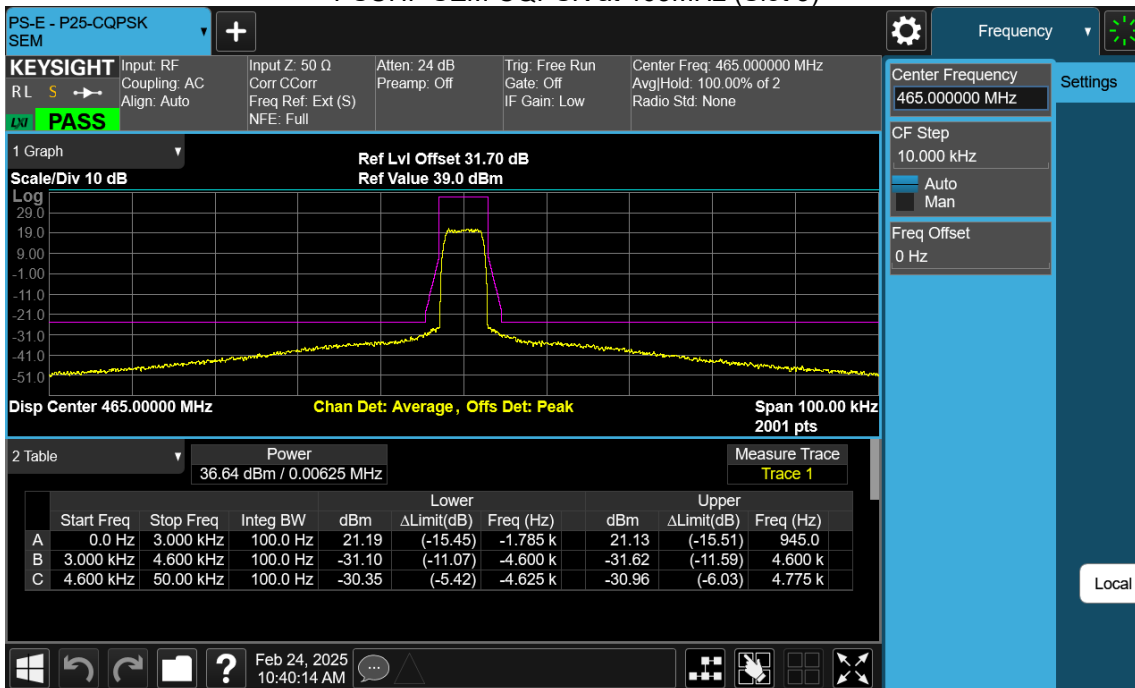




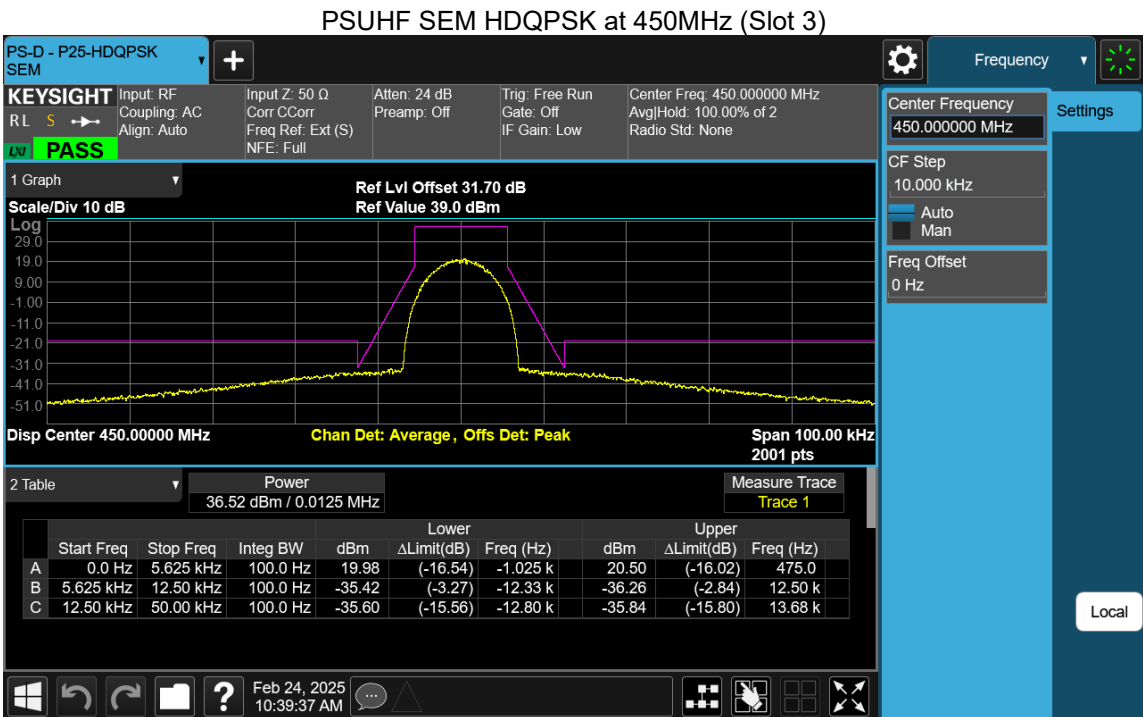
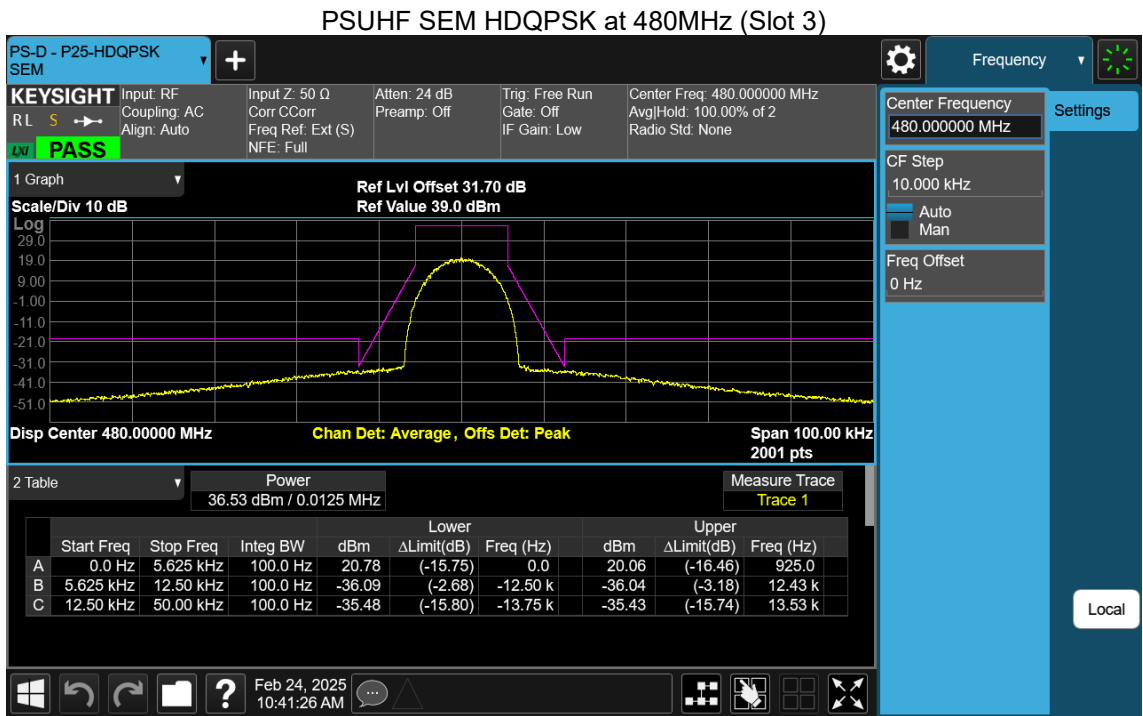
### PSUHF SEM CQPSK at 450MHz (Slot 3)



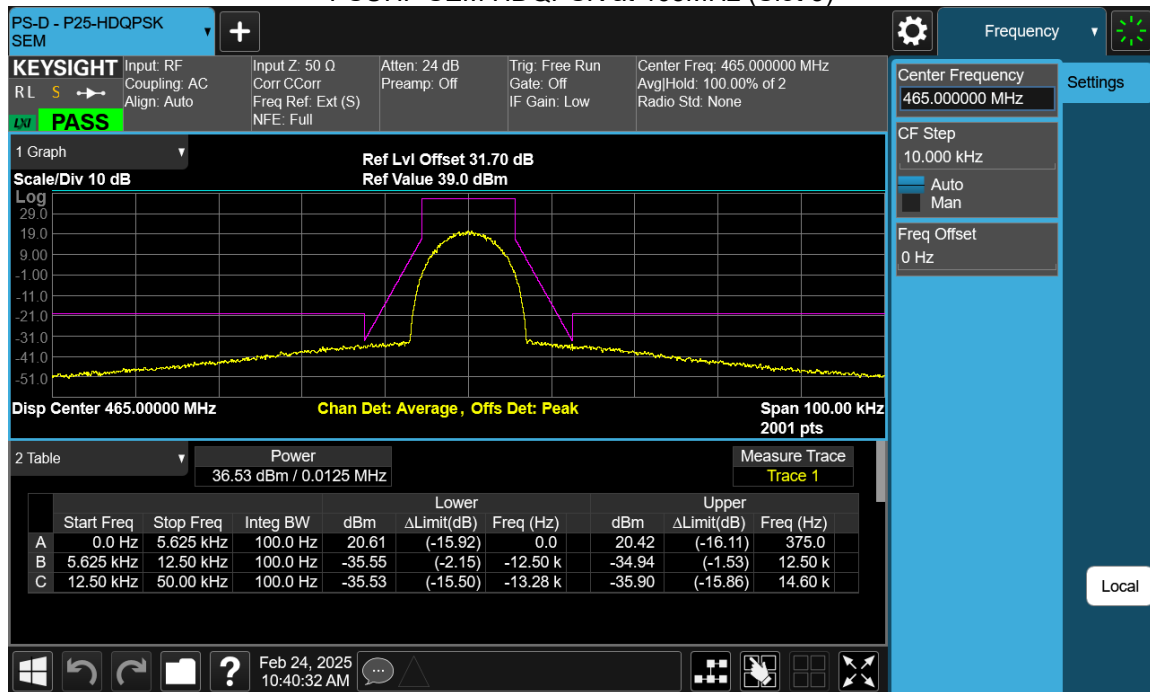
### PSUHF SEM CQPSK at 465MHz (Slot 3)







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



### PSUHF SEM ALC C4FM at 480MHz (Slot 3)

