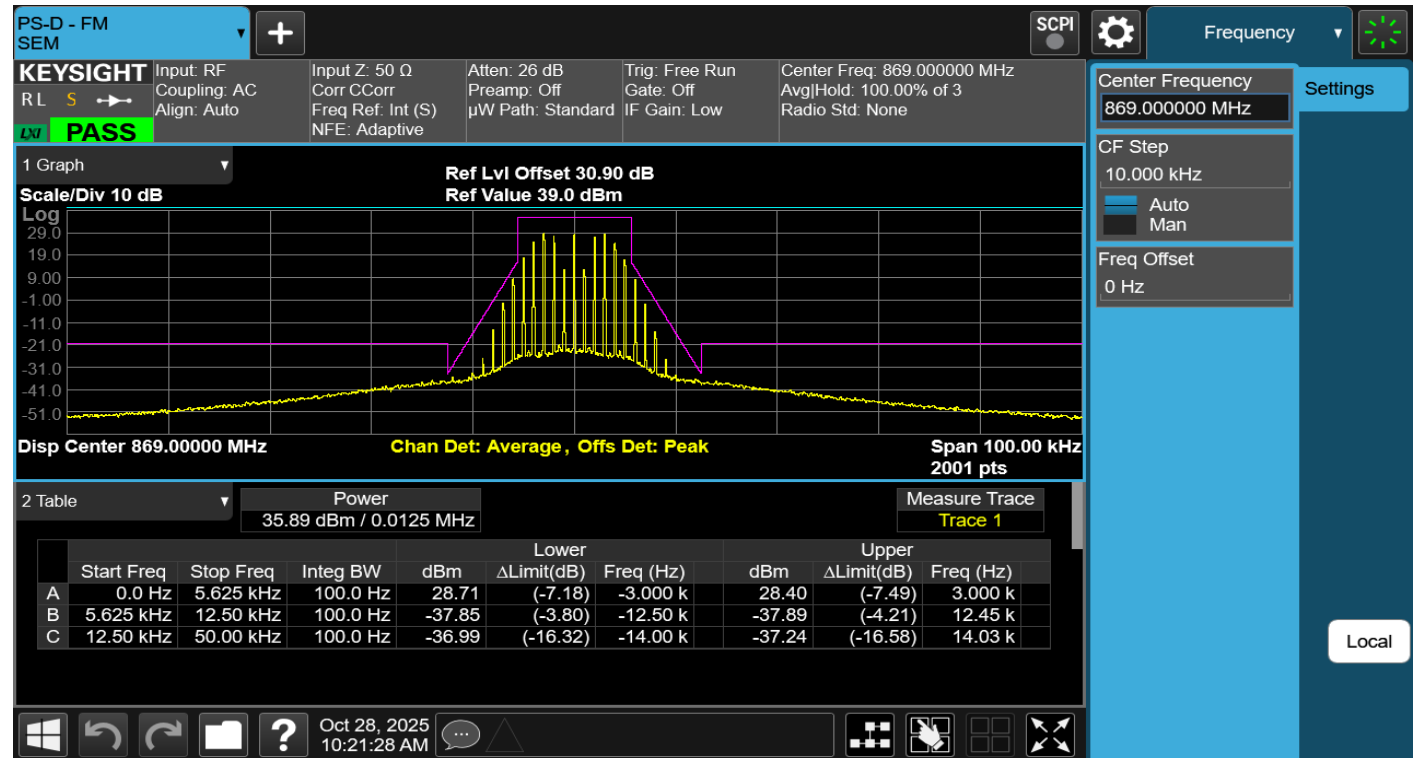
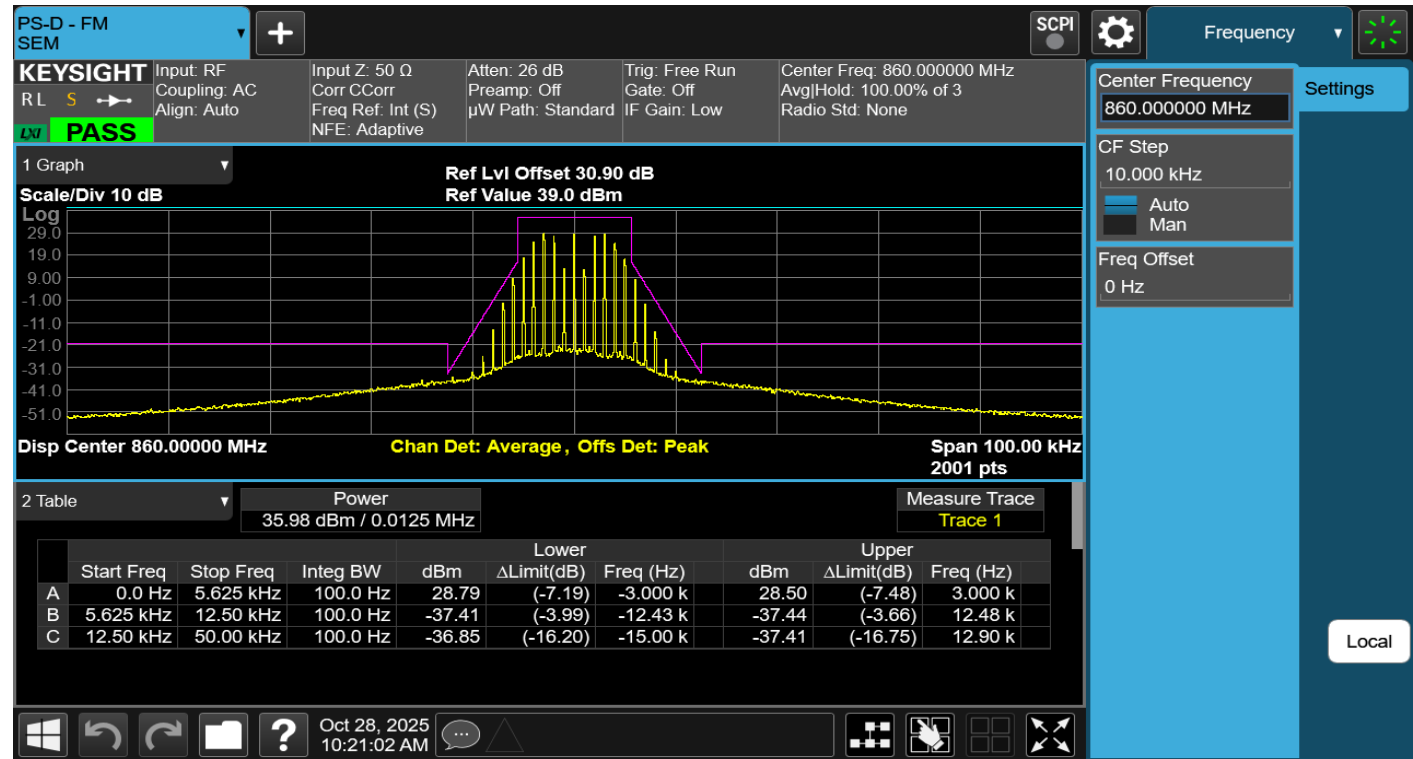


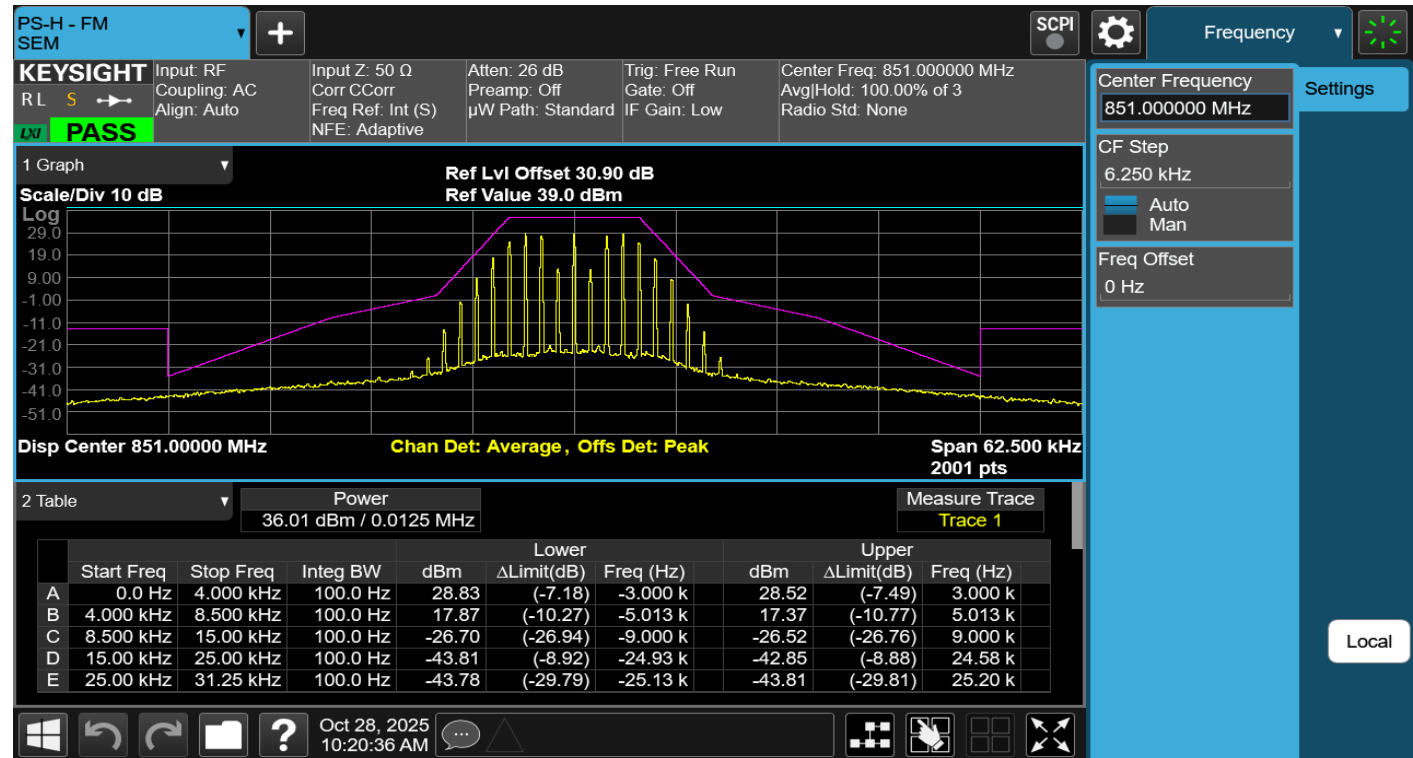
800PS SEM FM at 869 MHz



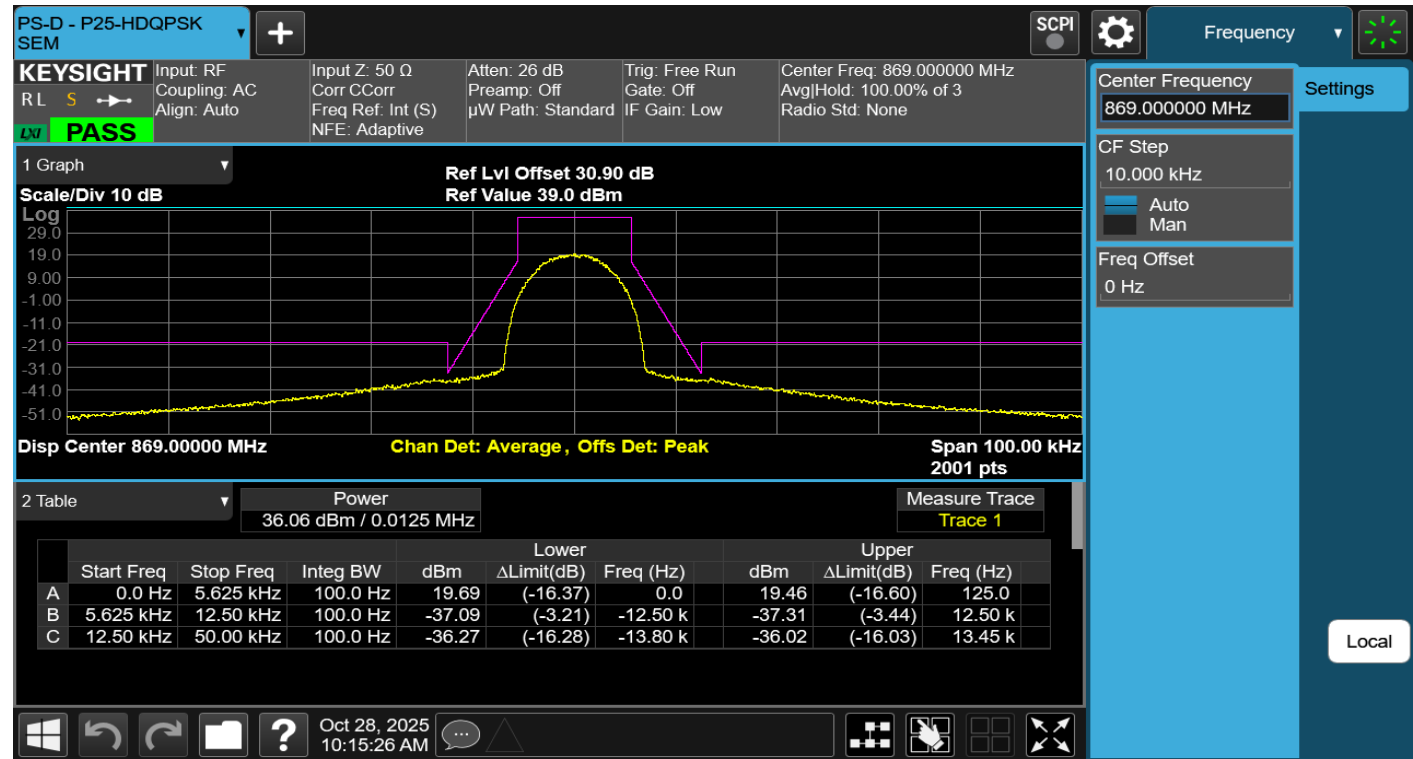
800PS SEM FM at 860 MHz



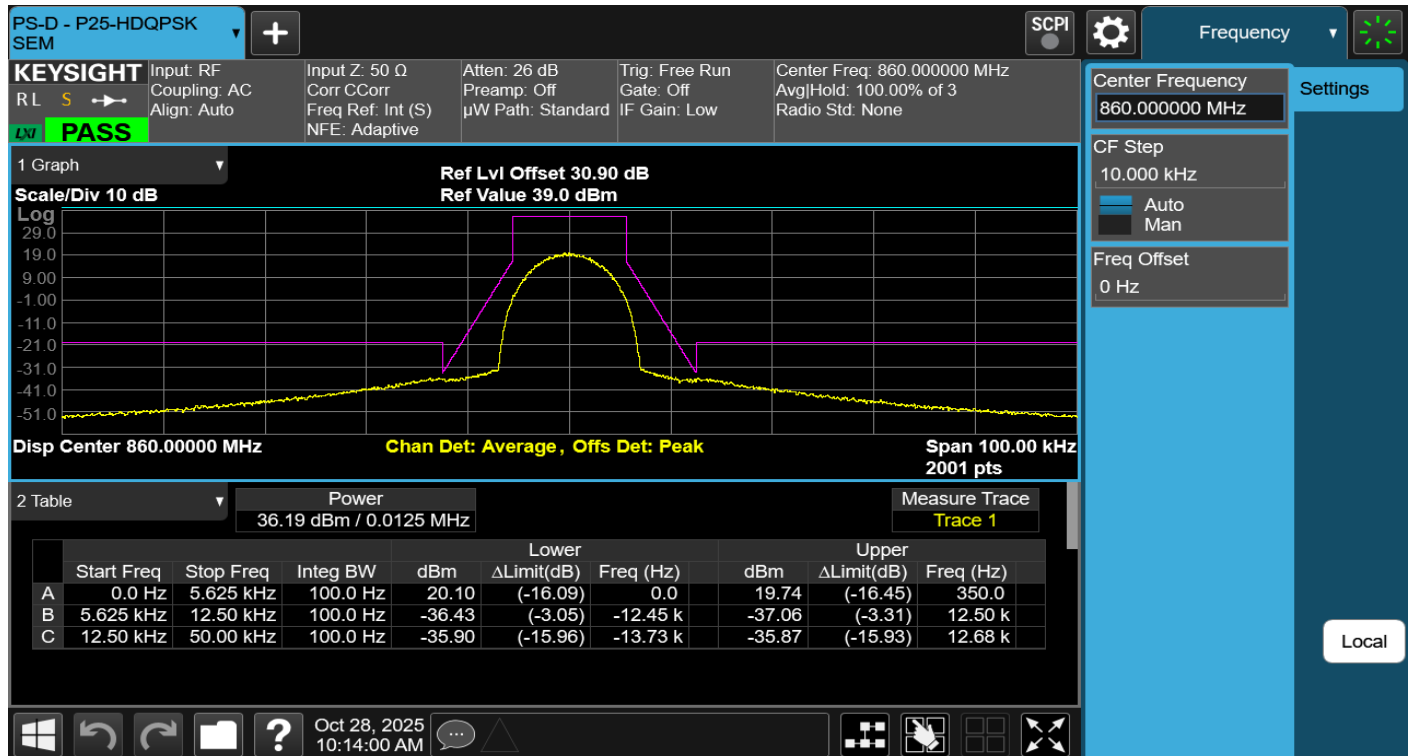
800PS SEM FM at 851 MHz



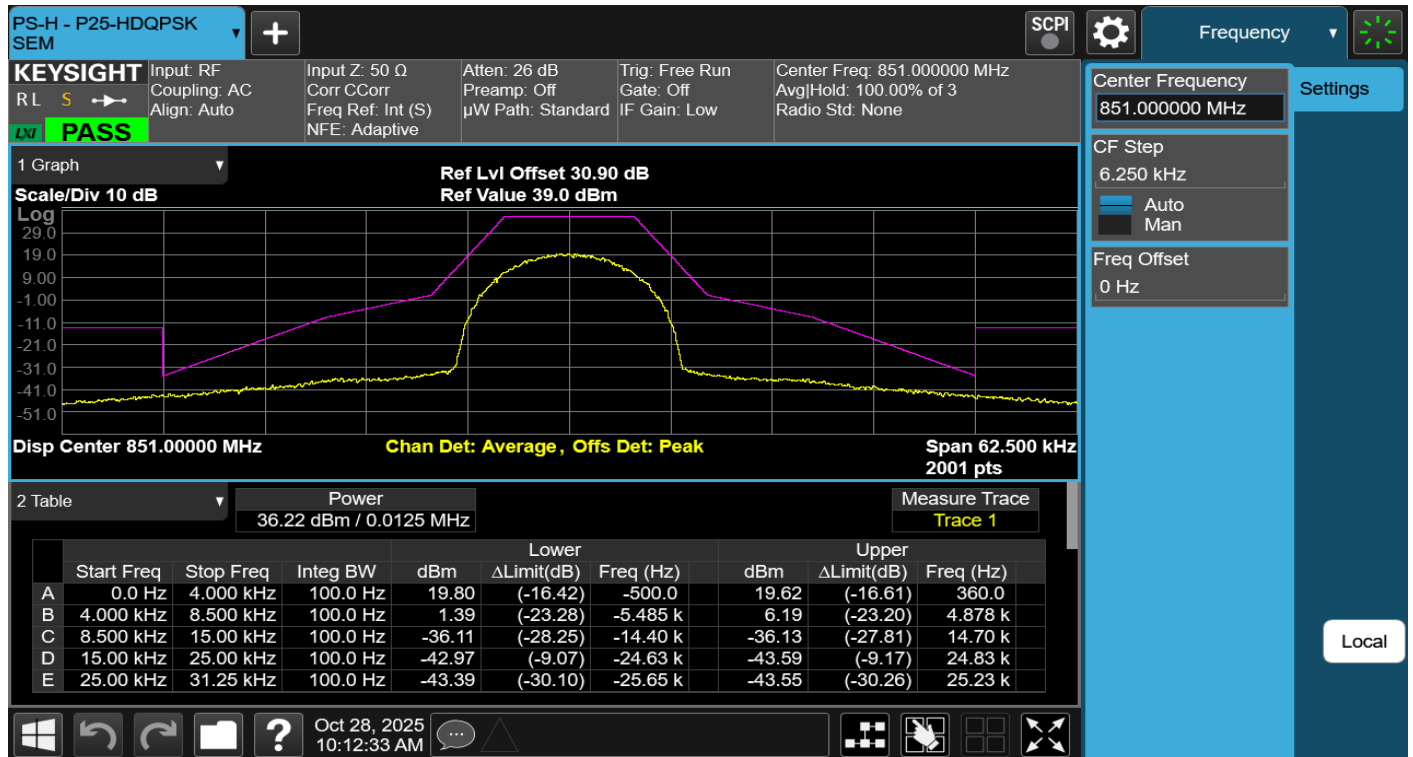
800PS SEM HDQPSK at 869 MHz



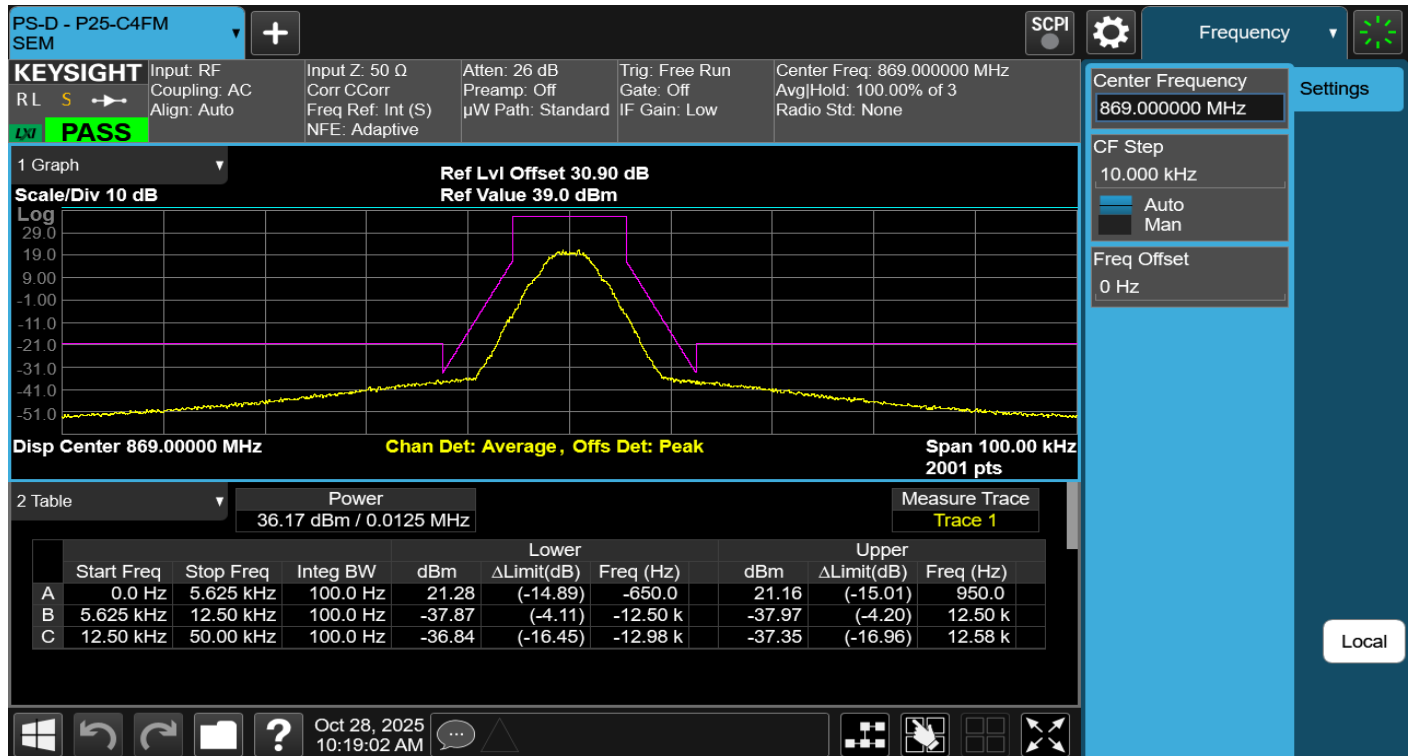
800PS SEM HDQPSK at 860 MHz



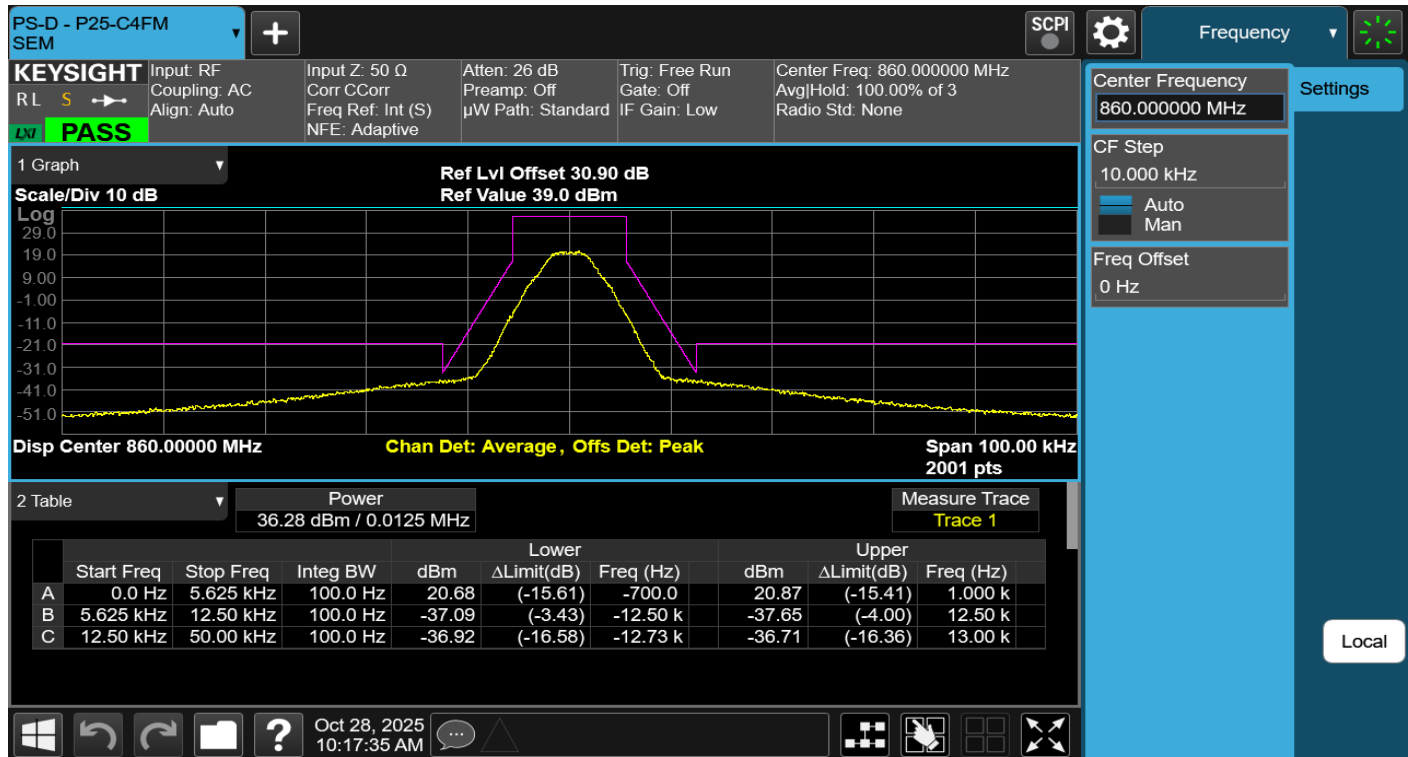
800PS SEM HDQPSK at 851 MHz



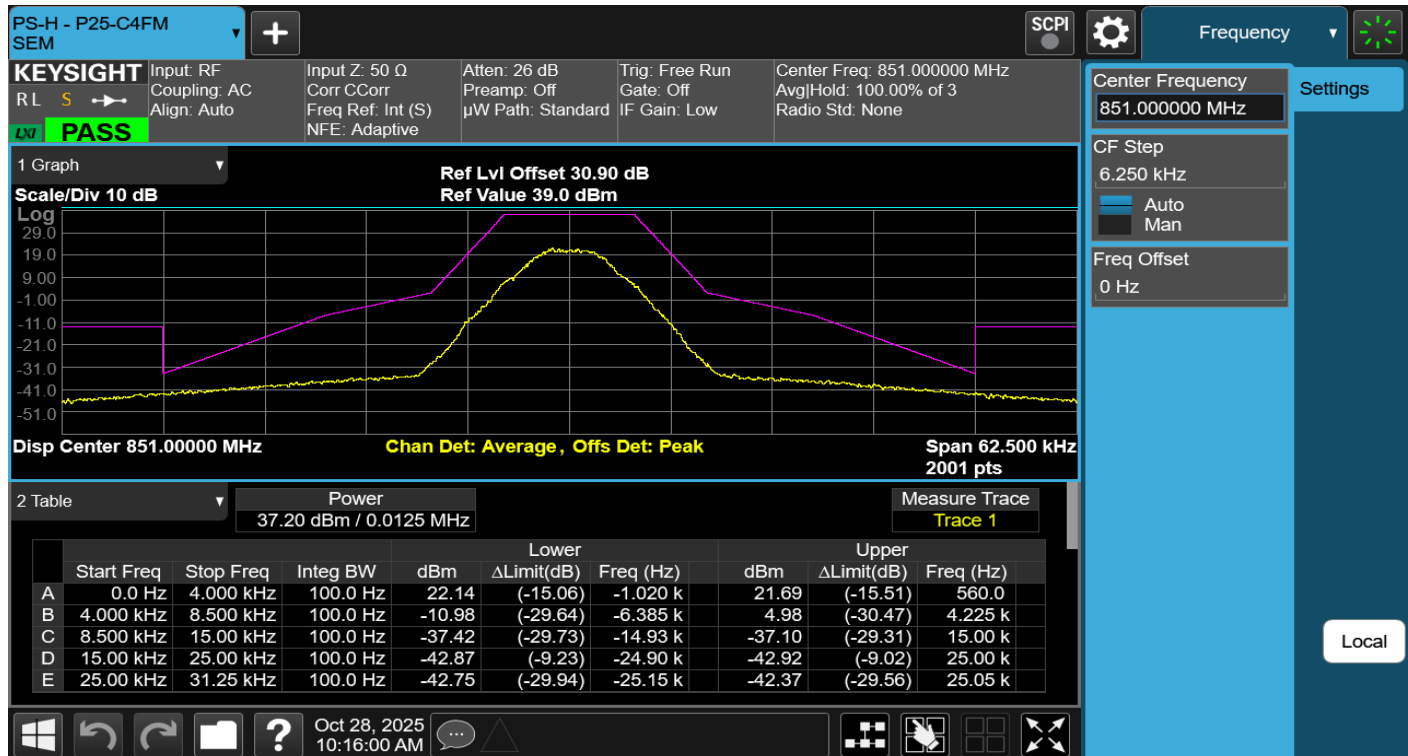
800PS SEM ALC FM at 869 MHz



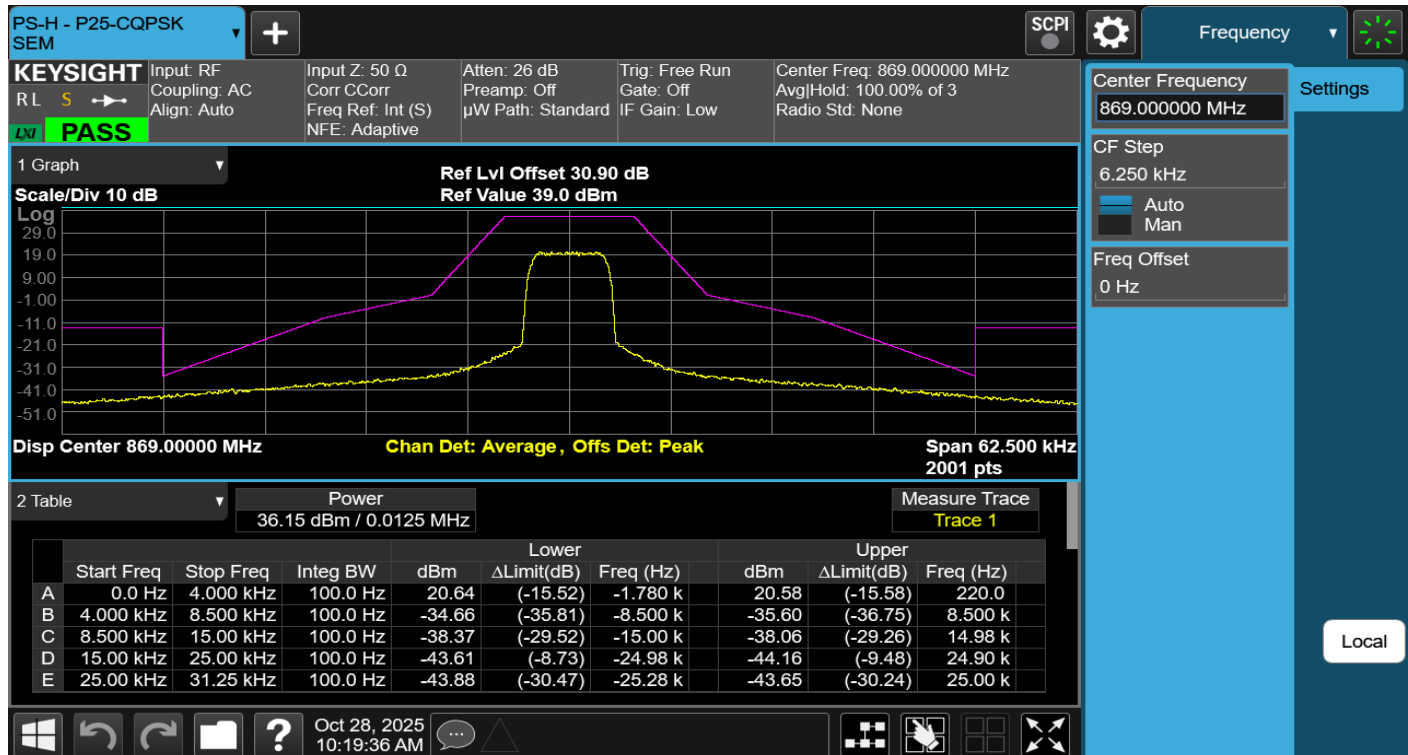
800PS SEM ALC FM at 860 MHz



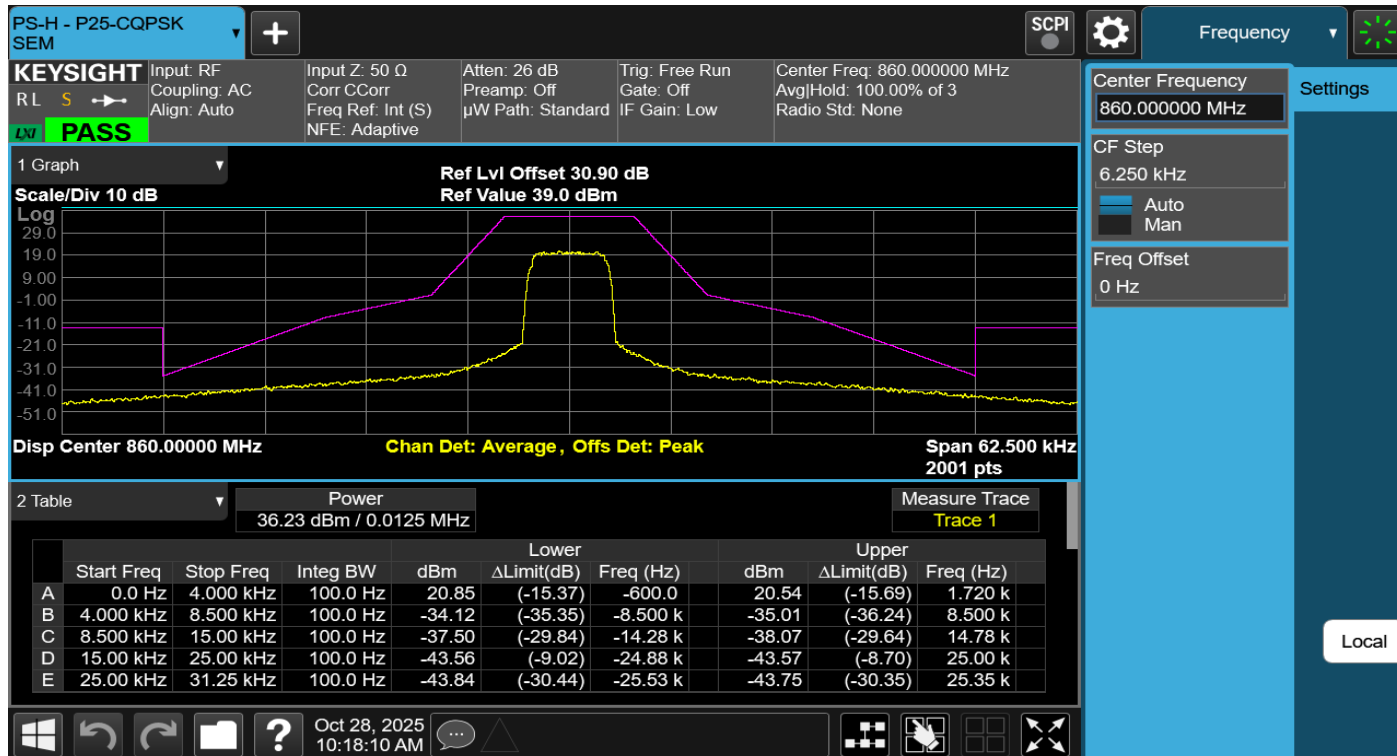
800PS SEM ALC FM at 851 MHz



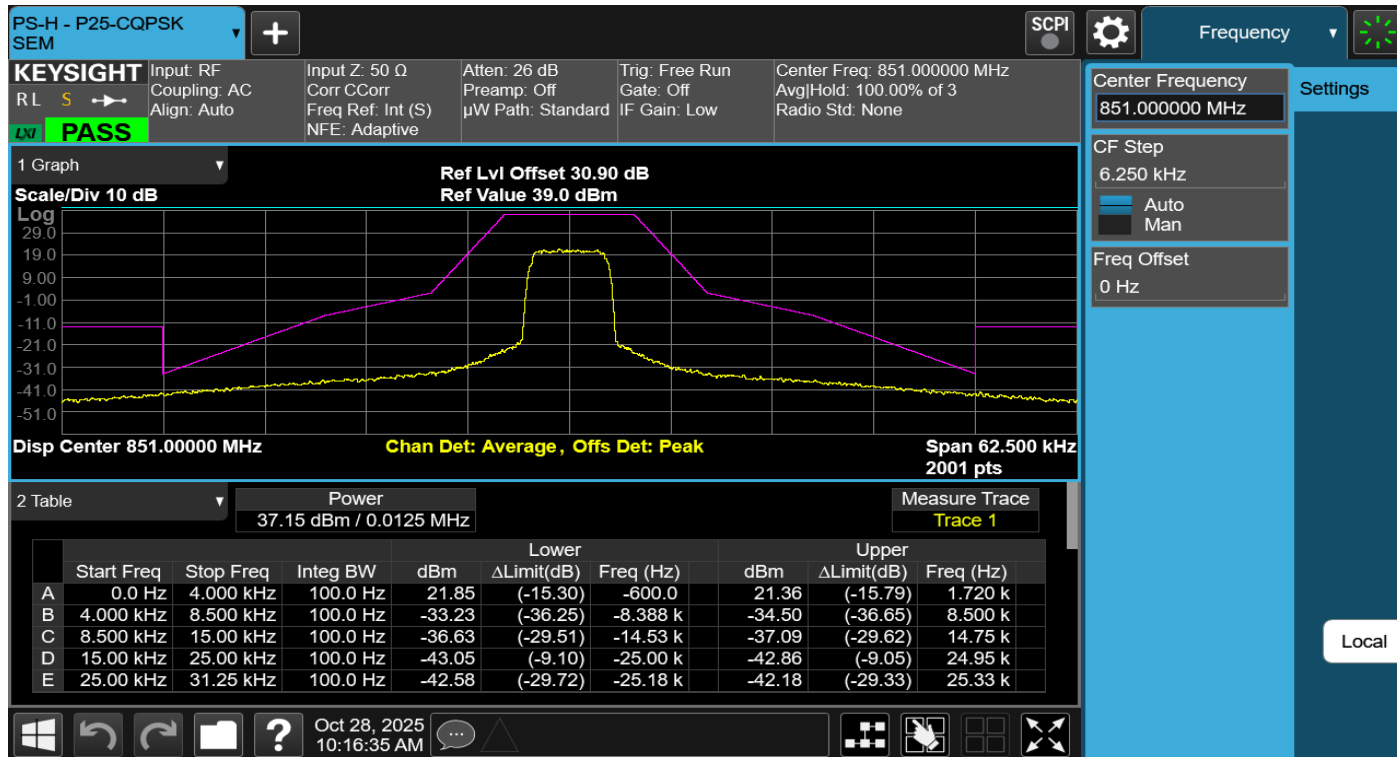
800PS SEM ALC CQPSK at 869 MHz



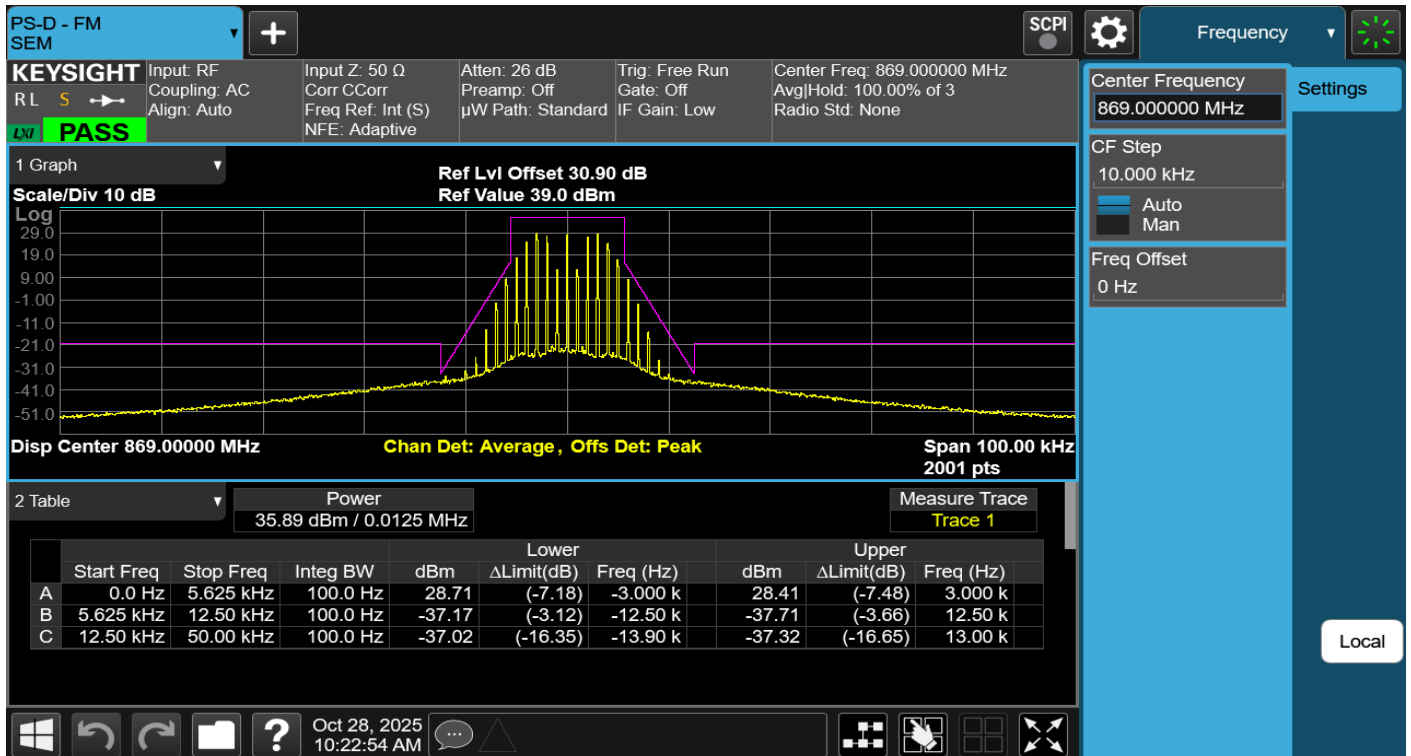
800PS SEM ALC CQPSK at 860 MHz



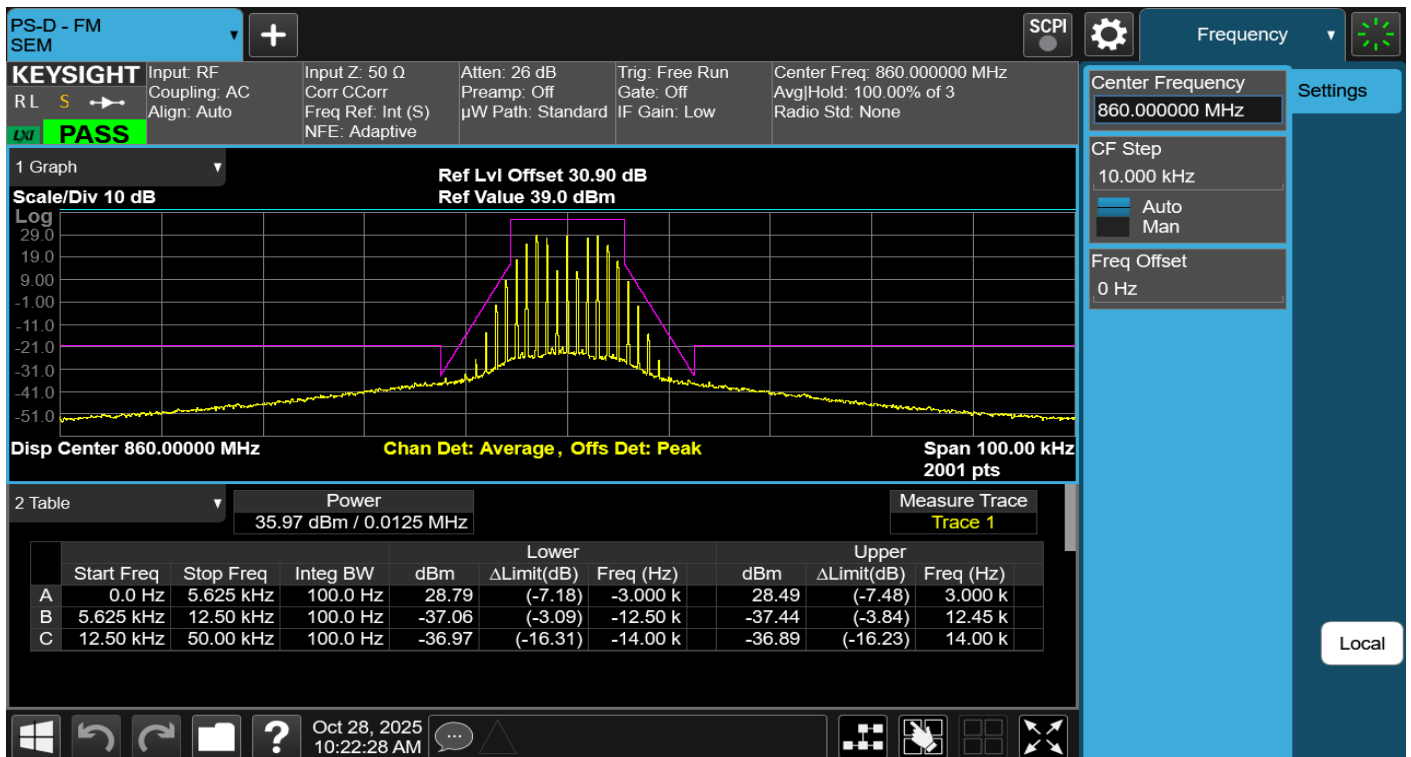
800PS SEM ALC CQPSK at 851 MHz



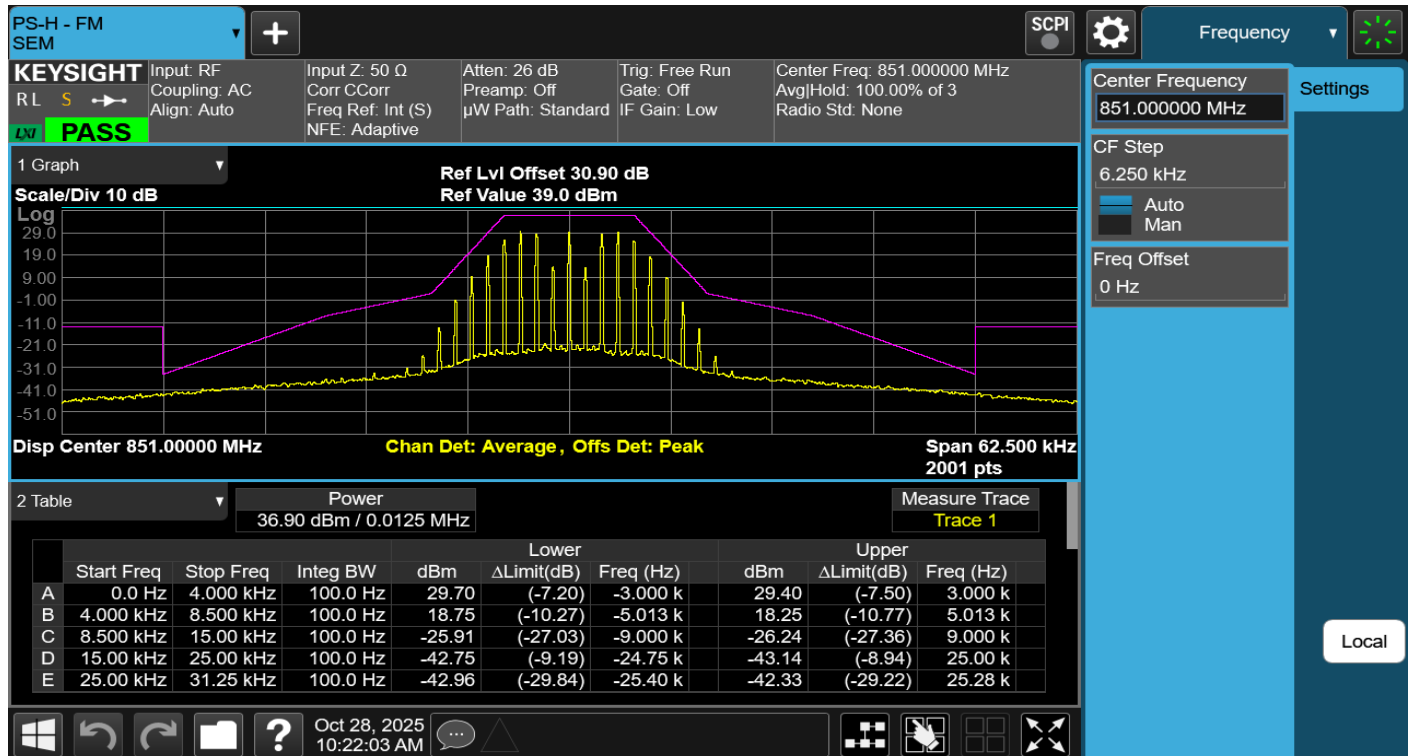
800PS SEM ALC FM at 869 MHz



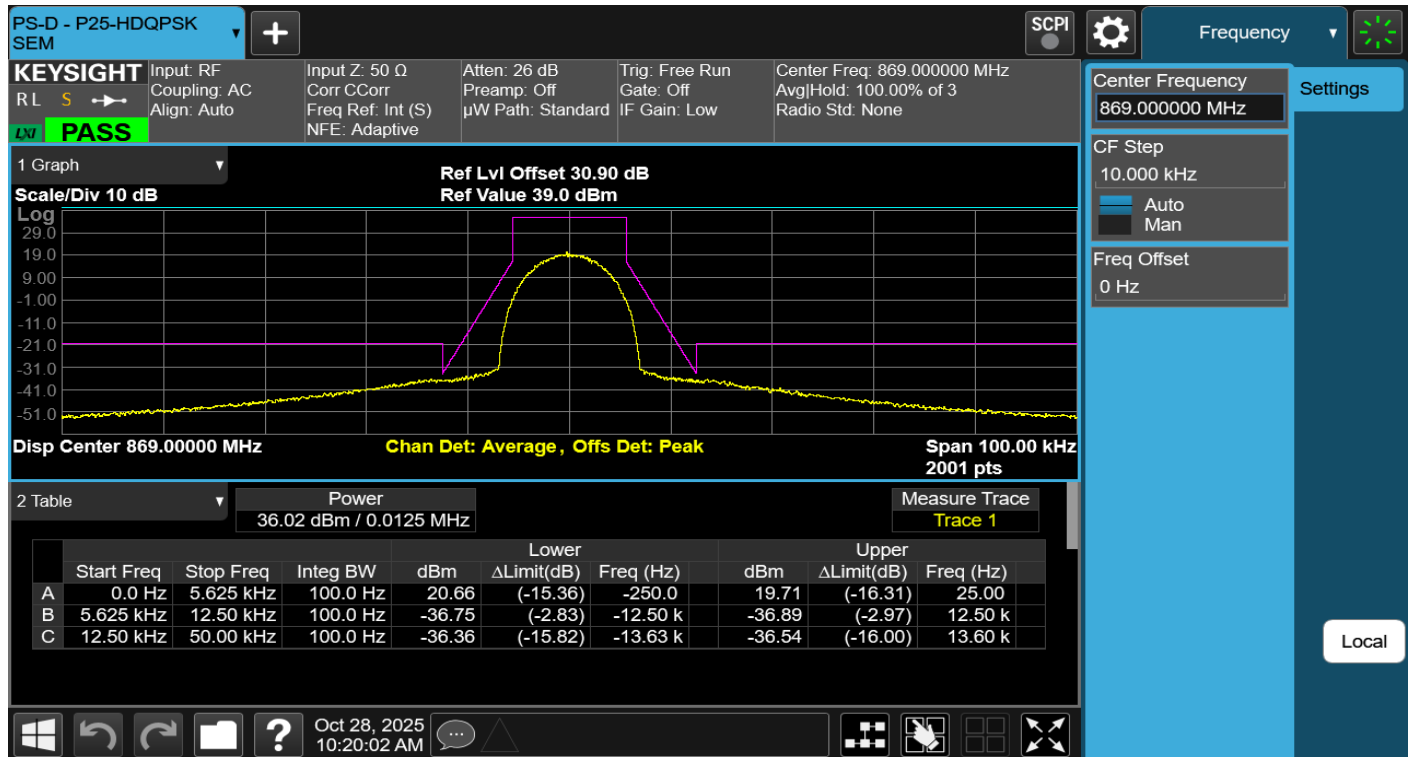
800PS SEM ALC FM at 860 MHz



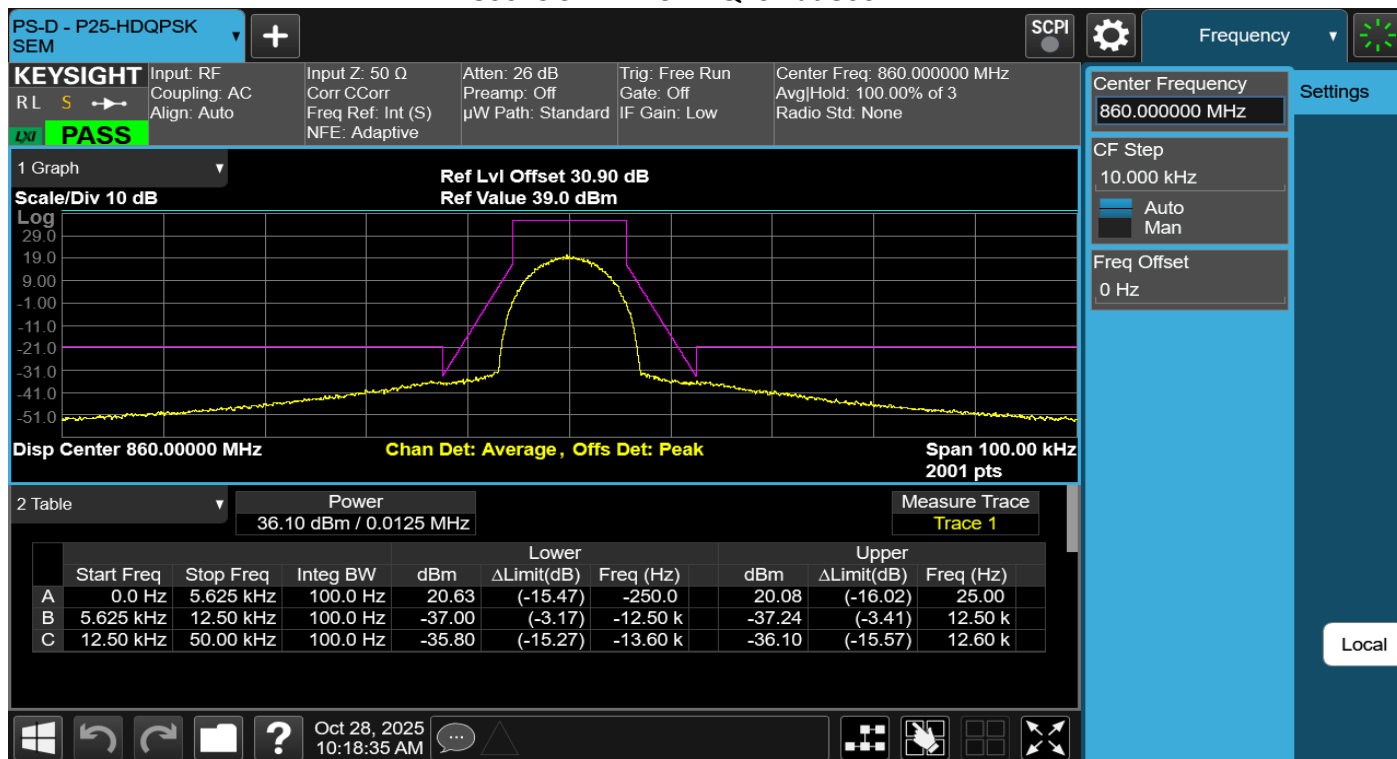
800PS SEM ALC FM at 851 MHz



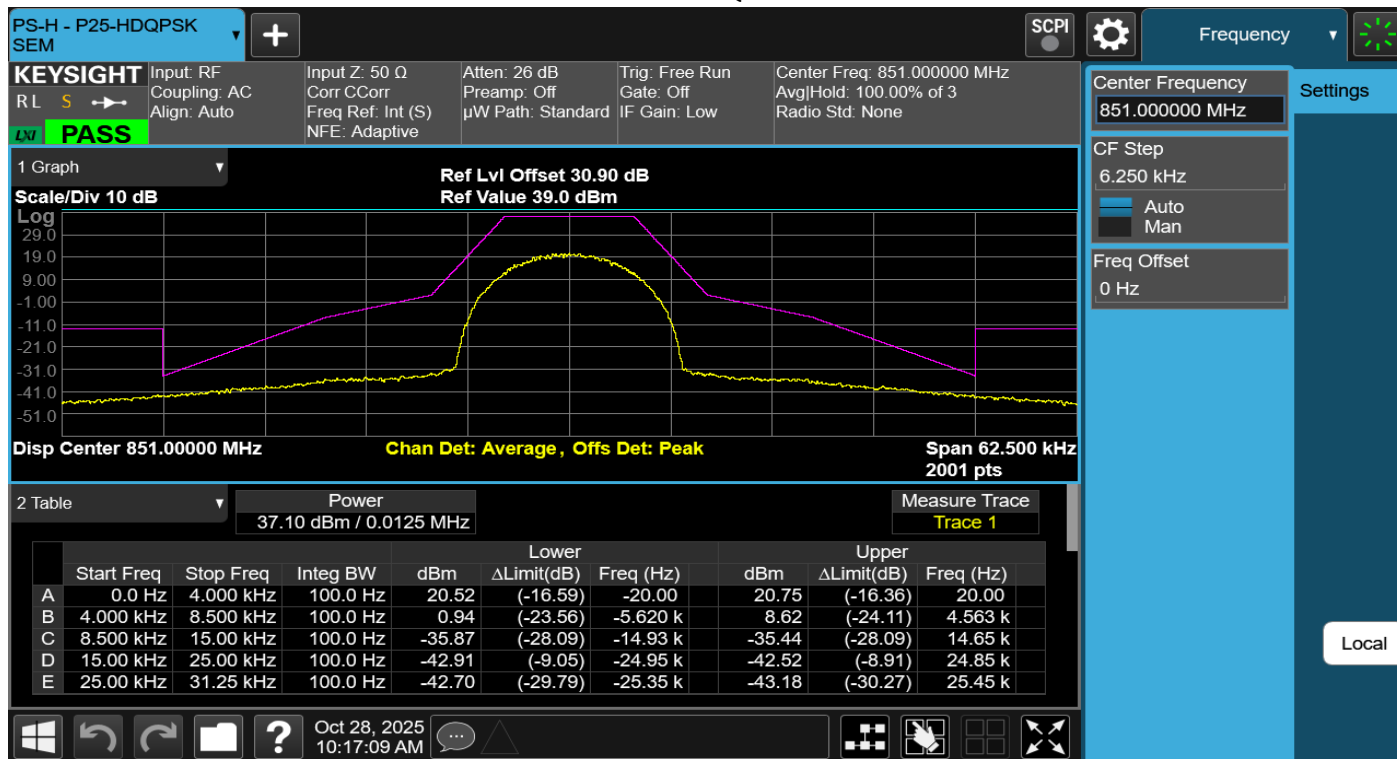
800PS SEM ALC HDQPSK at 869 MHz



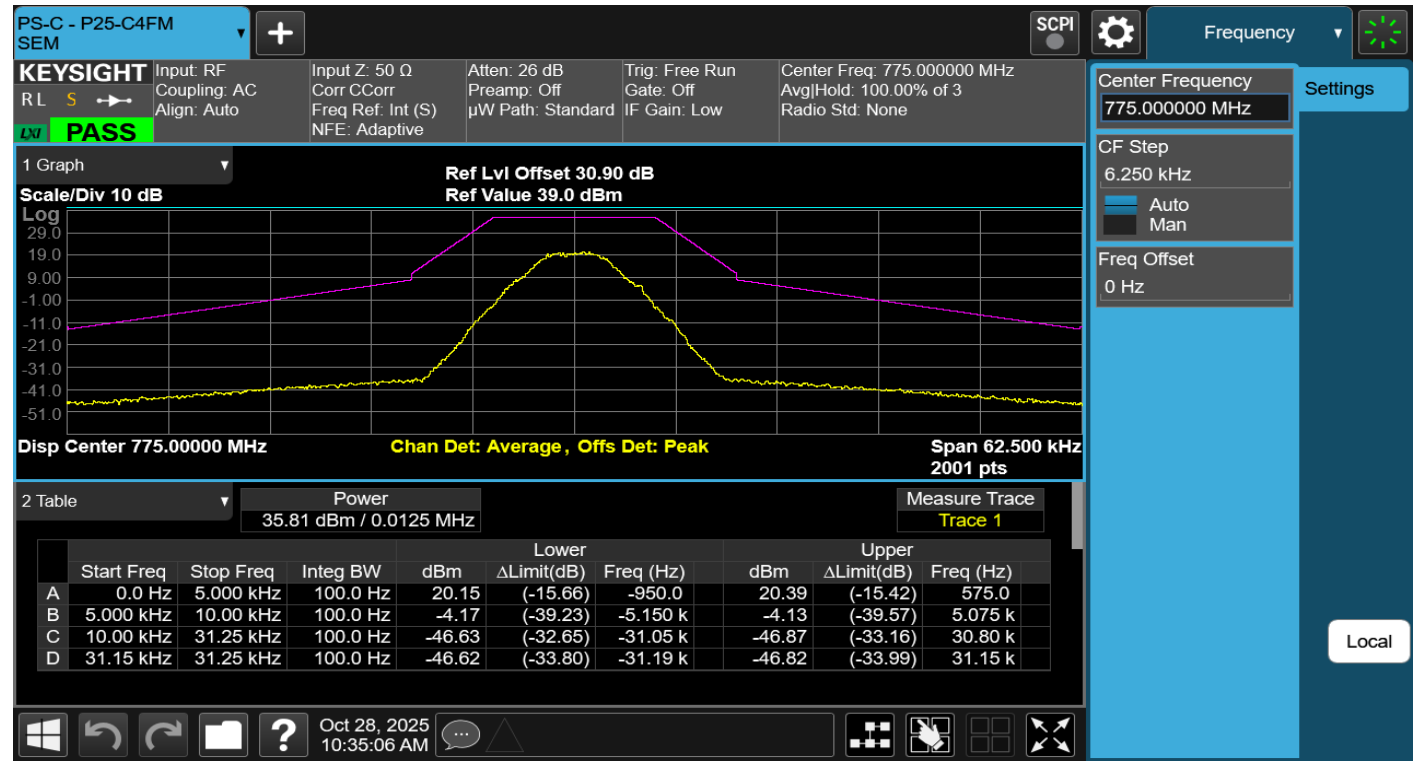
800PS SEM ALC HDQPSK at 860 MHz



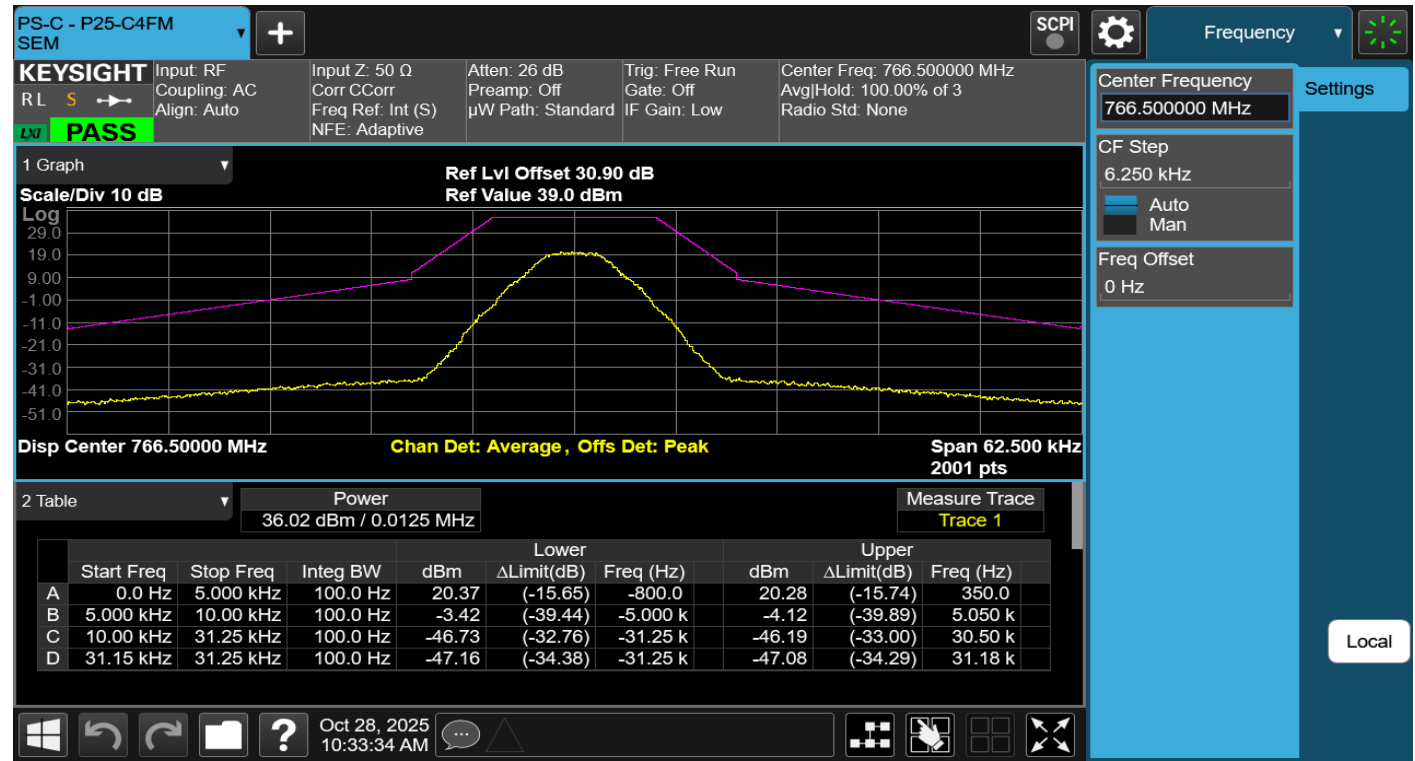
800PS SEM ALC HDQPSK at 851 MHz



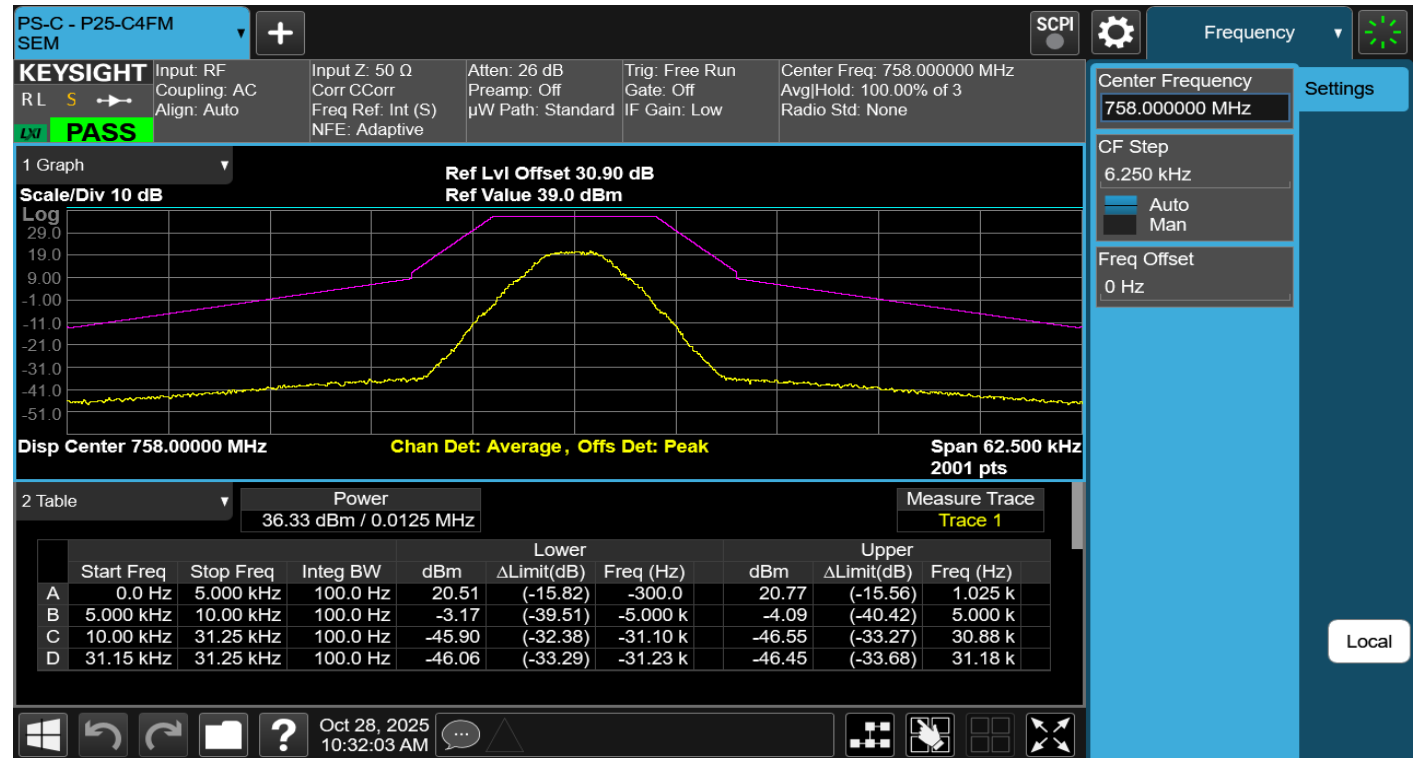
700PS SEM C4FM at 775 MHz



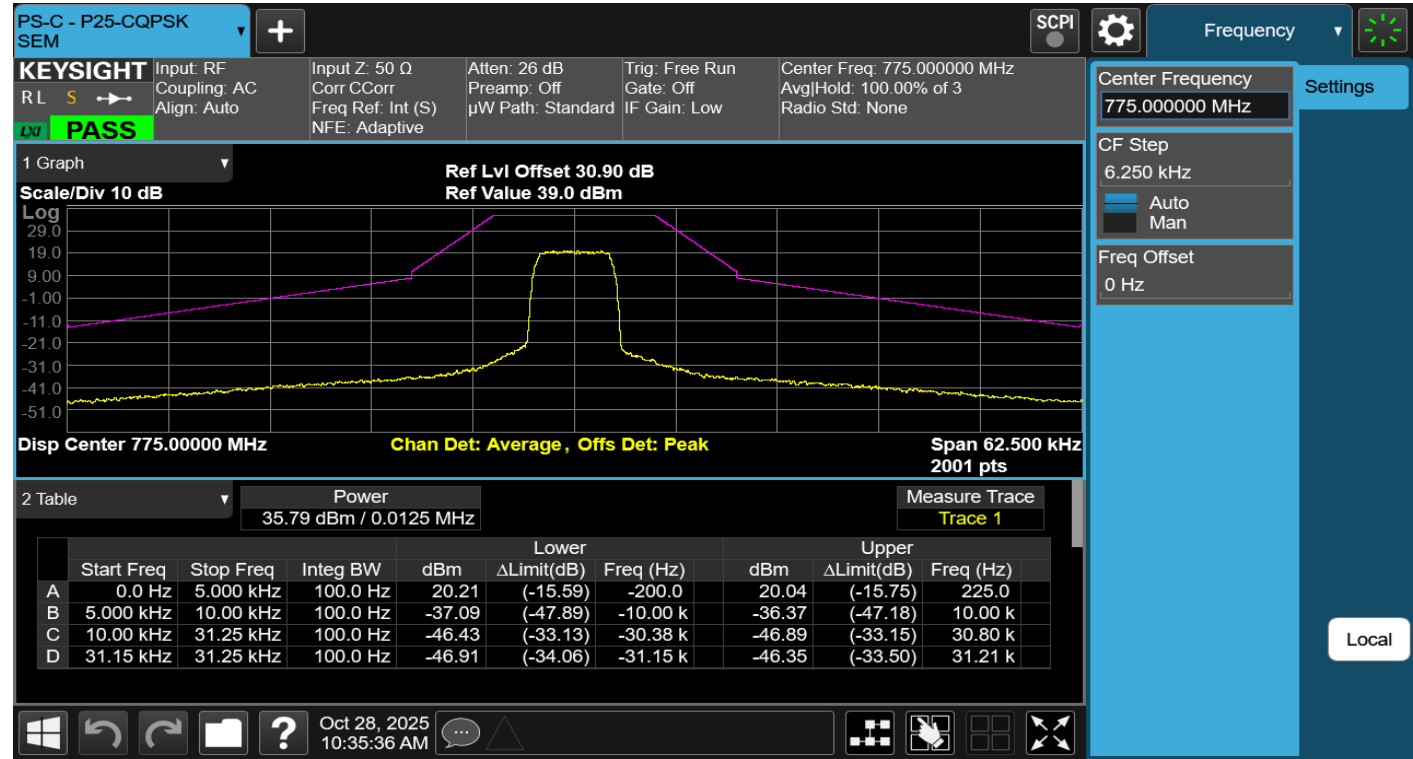
700PS SEM C4FM at 766.5 MHz



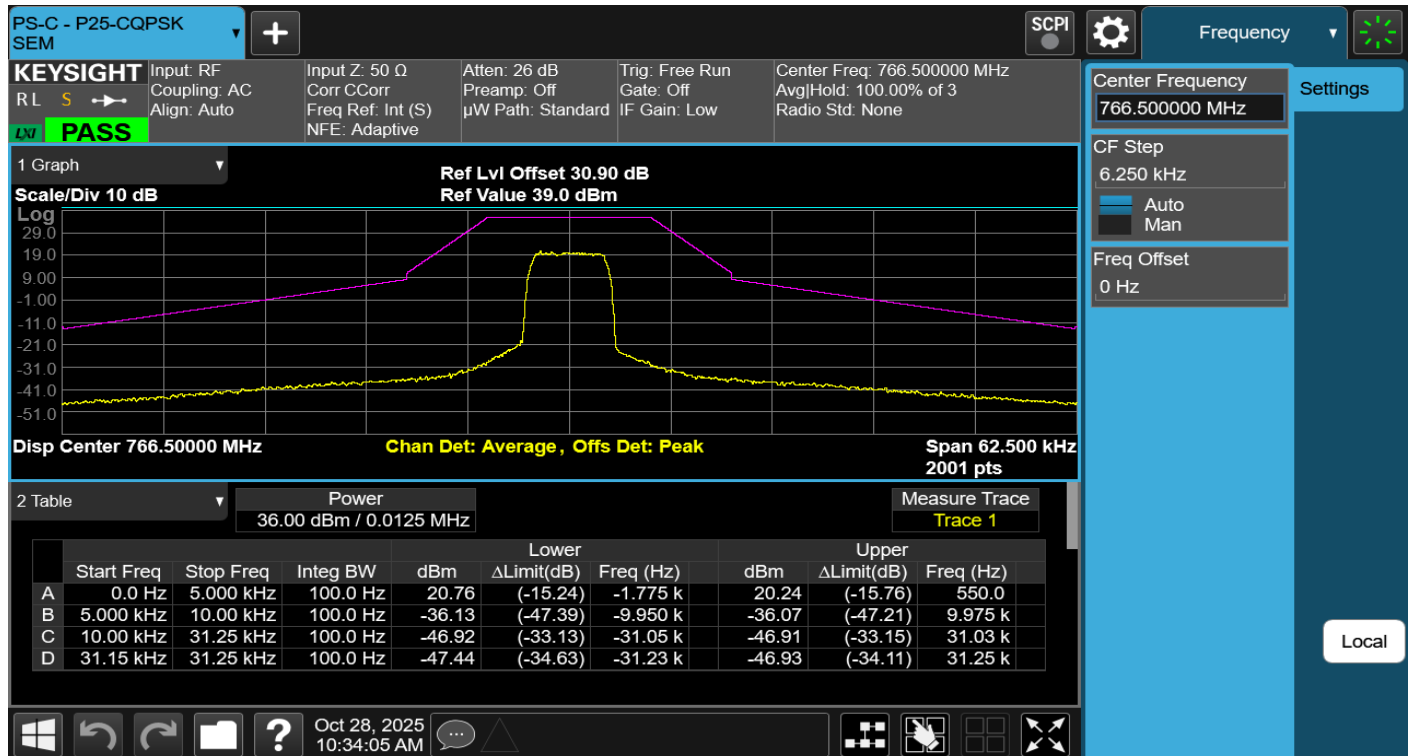
700PS SEM C4FM at 758 MHz



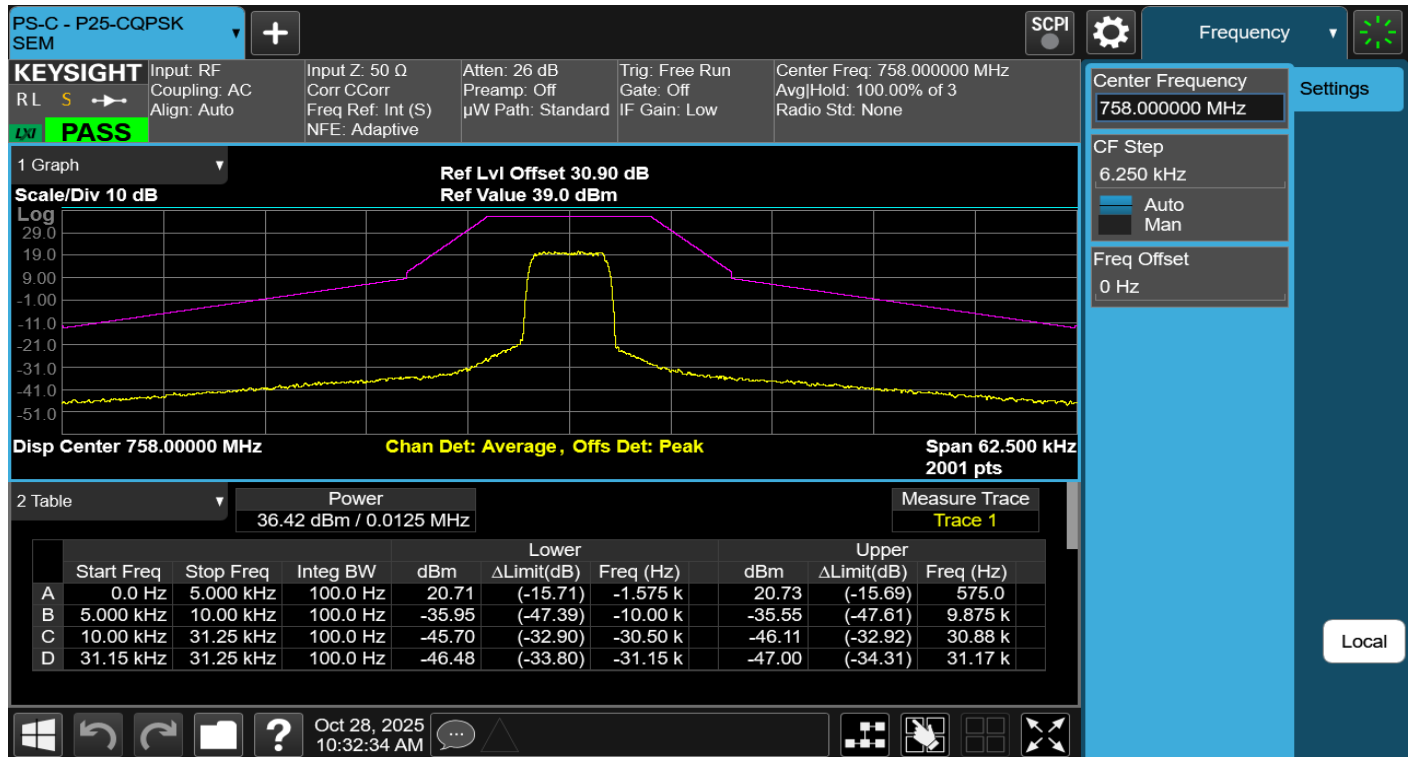
700PS SEM CQPSK at 775 MHz



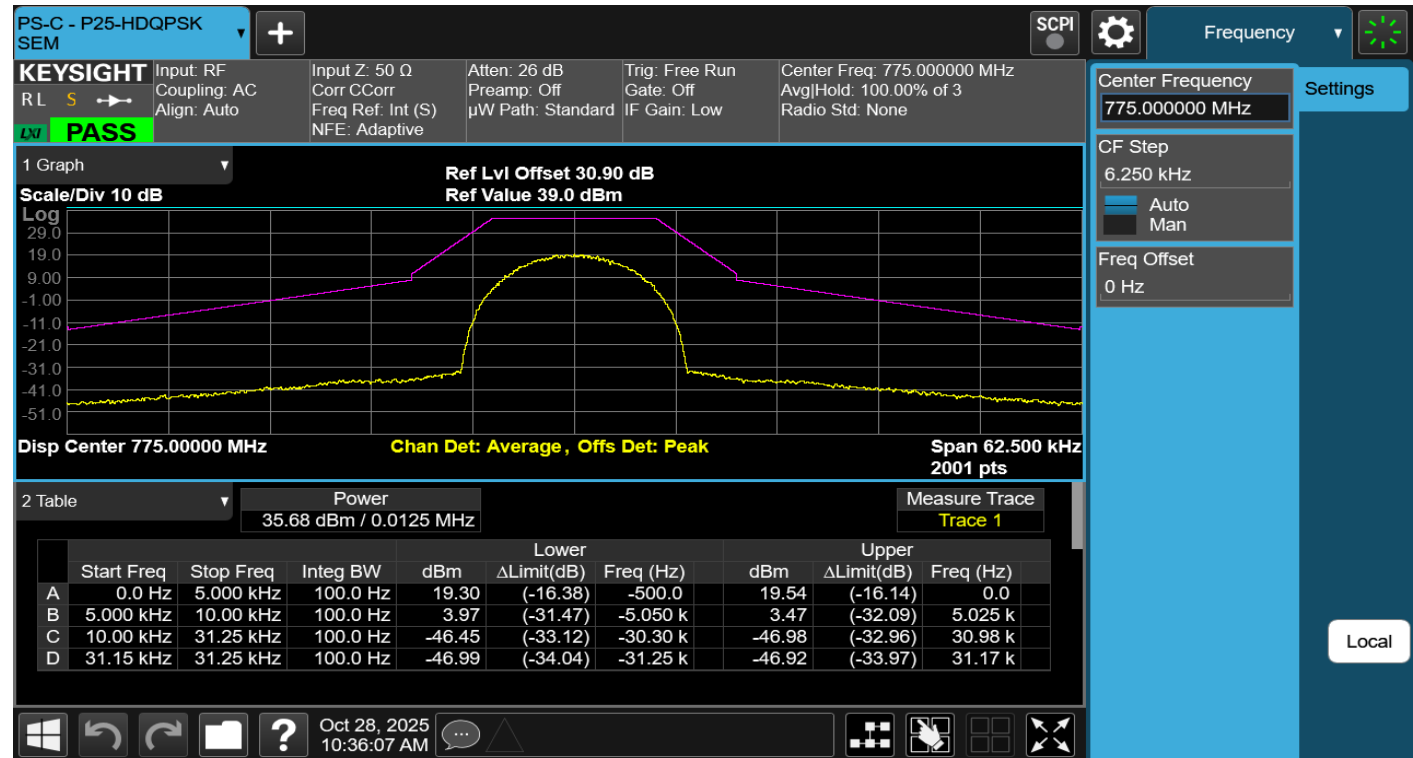
700PS SEM CQPSK at 766.5 MHz



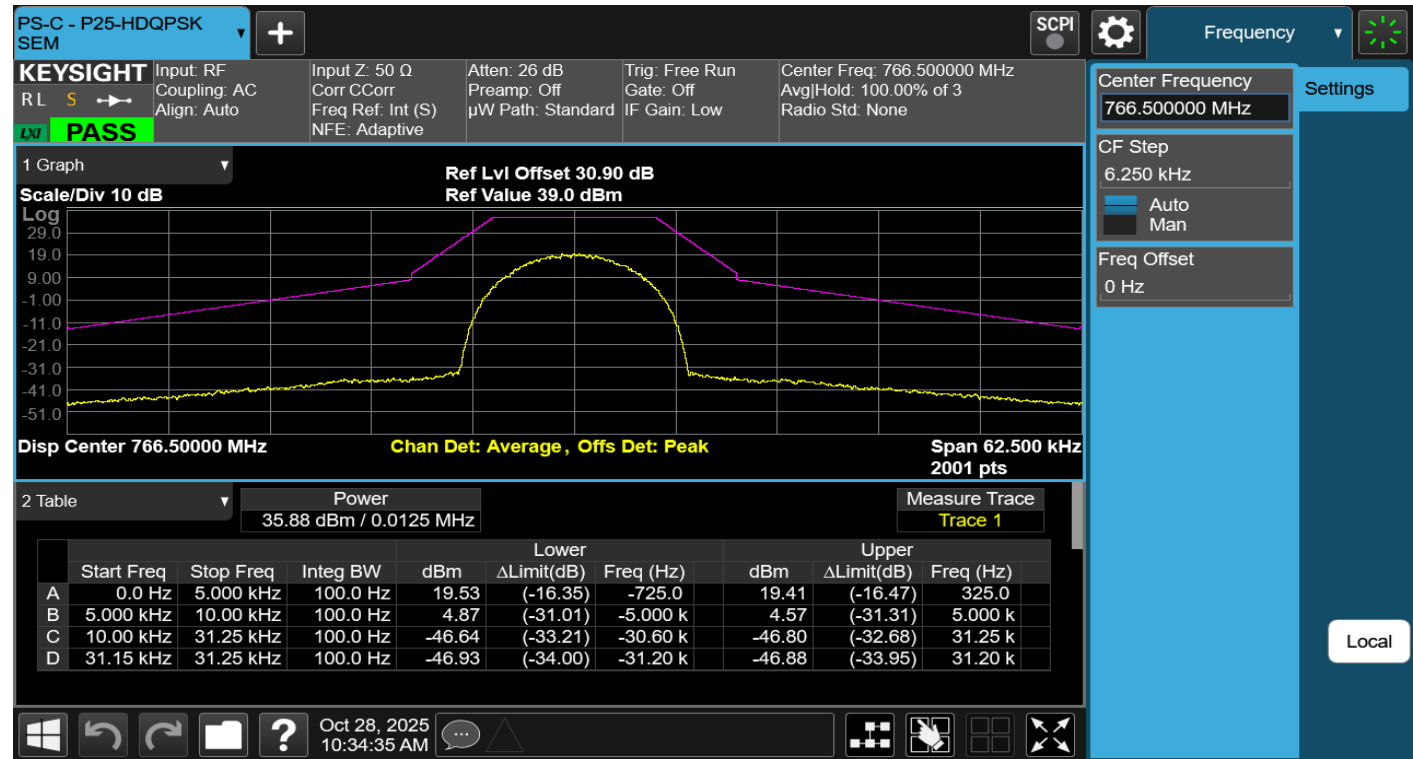
700PS SEM CQPSK at 758 MHz



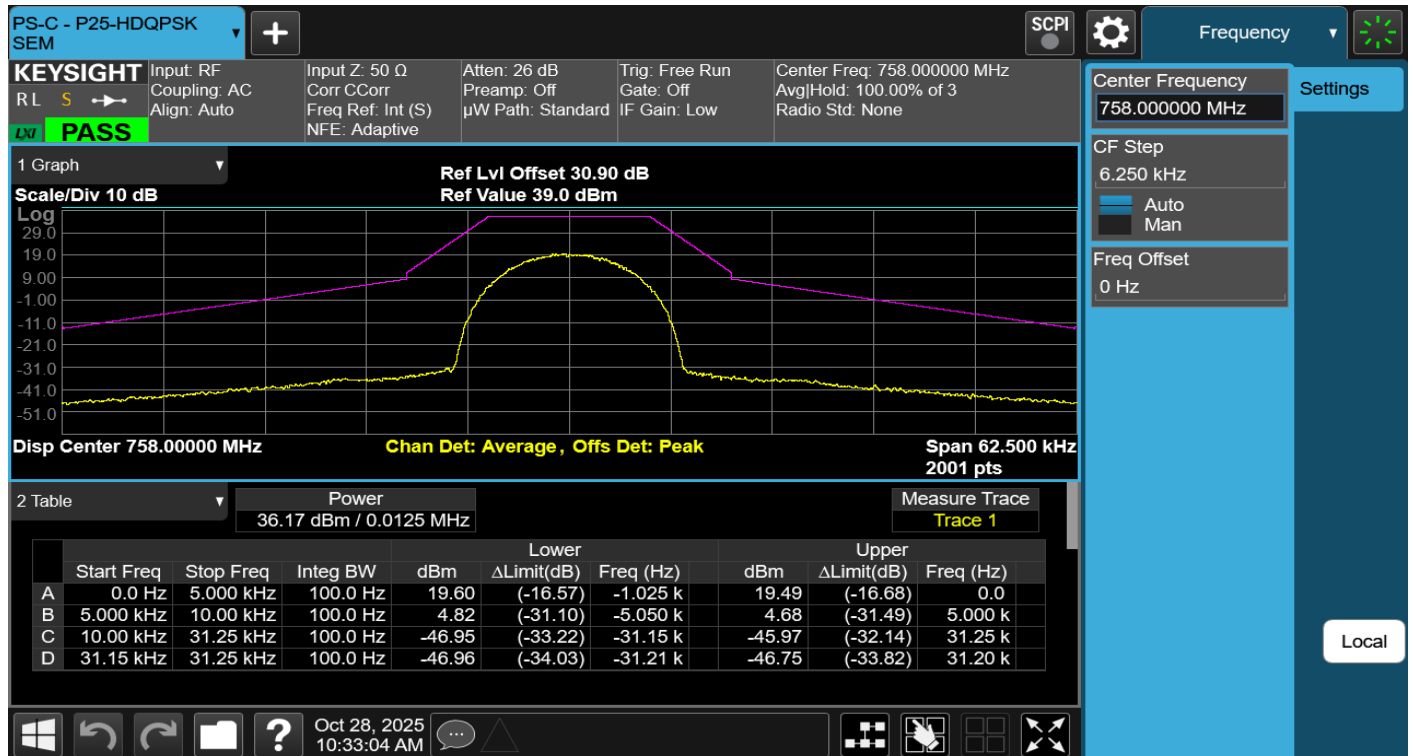
700PS SEM HDQPSK at 775 MHz



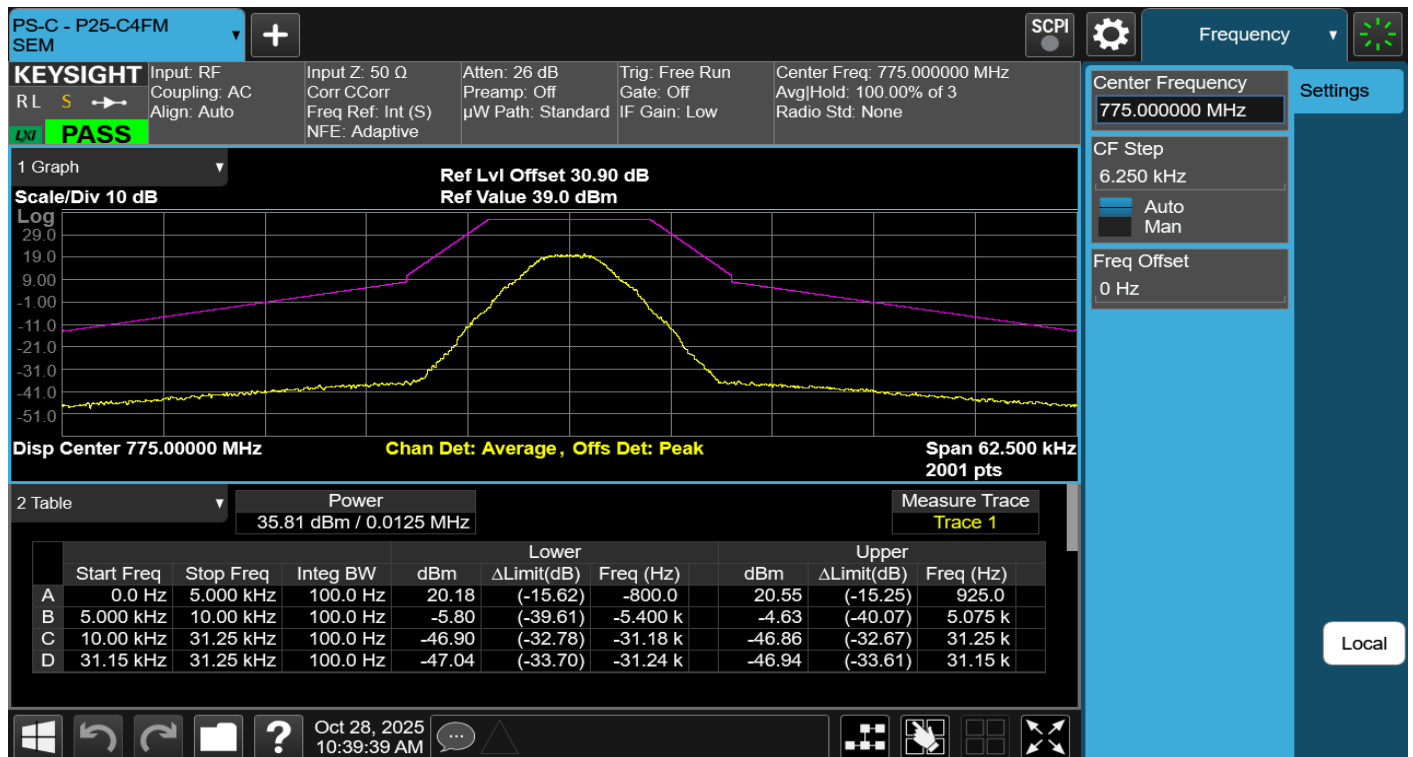
700PS SEM HDQPSK at 766.5 MHz



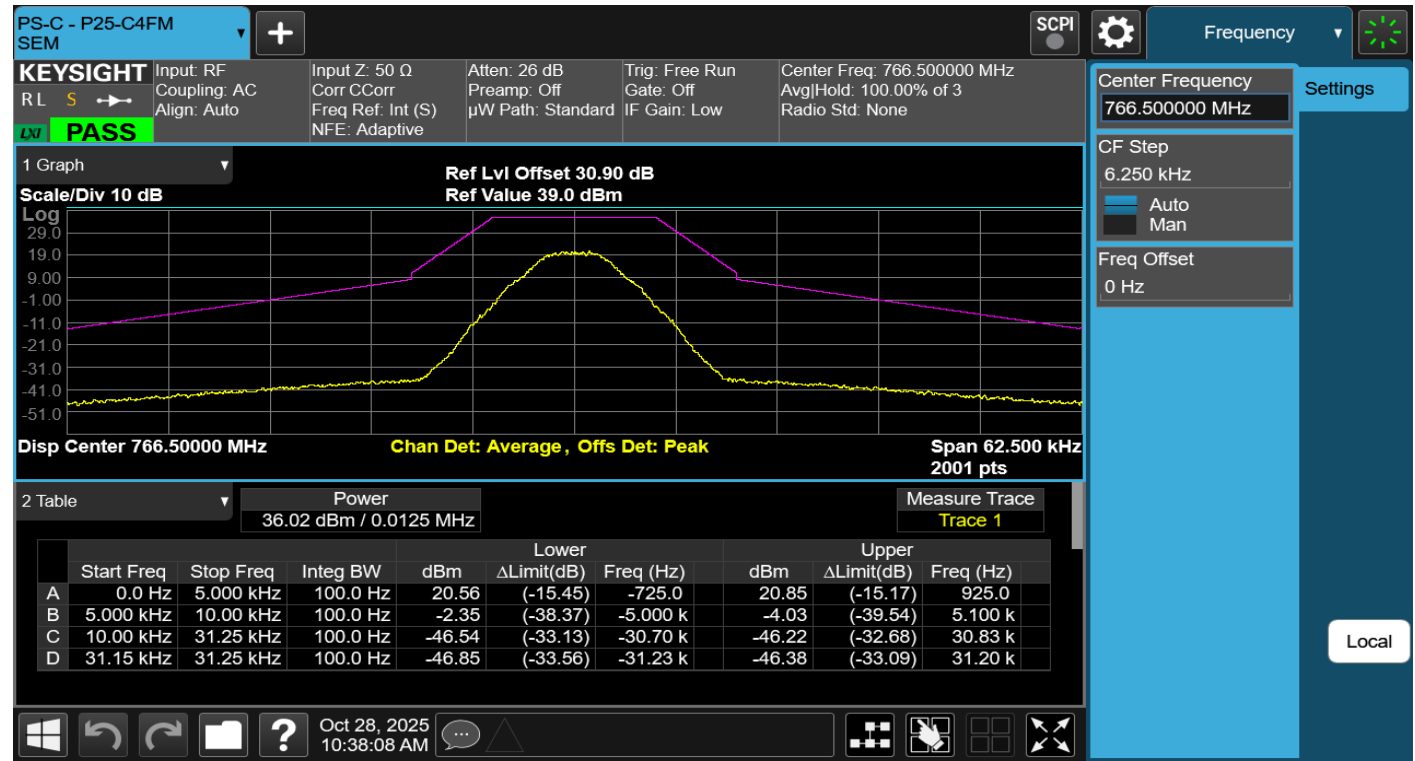
700PS SEM HDQPSK at 758 MHz



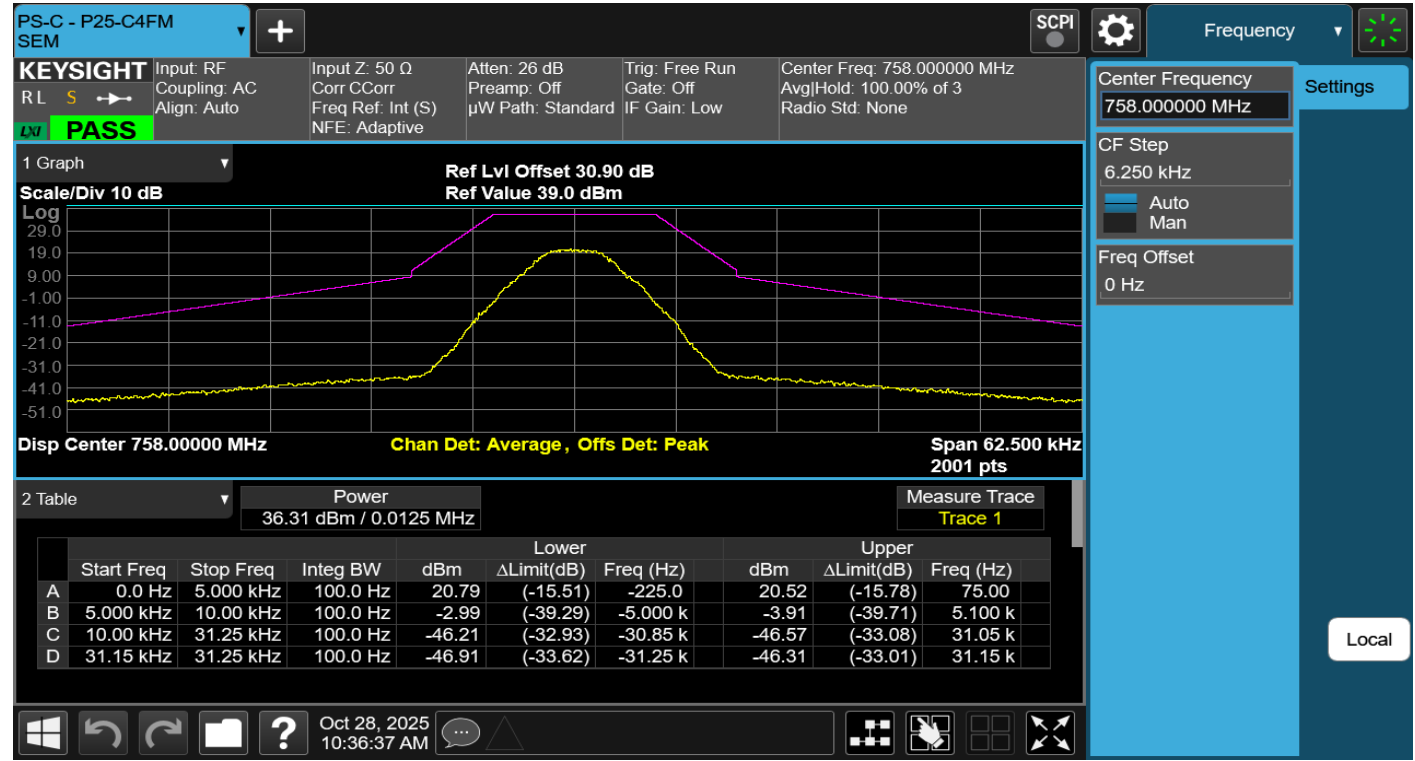
700PS SEM C4FM at 775 MHz



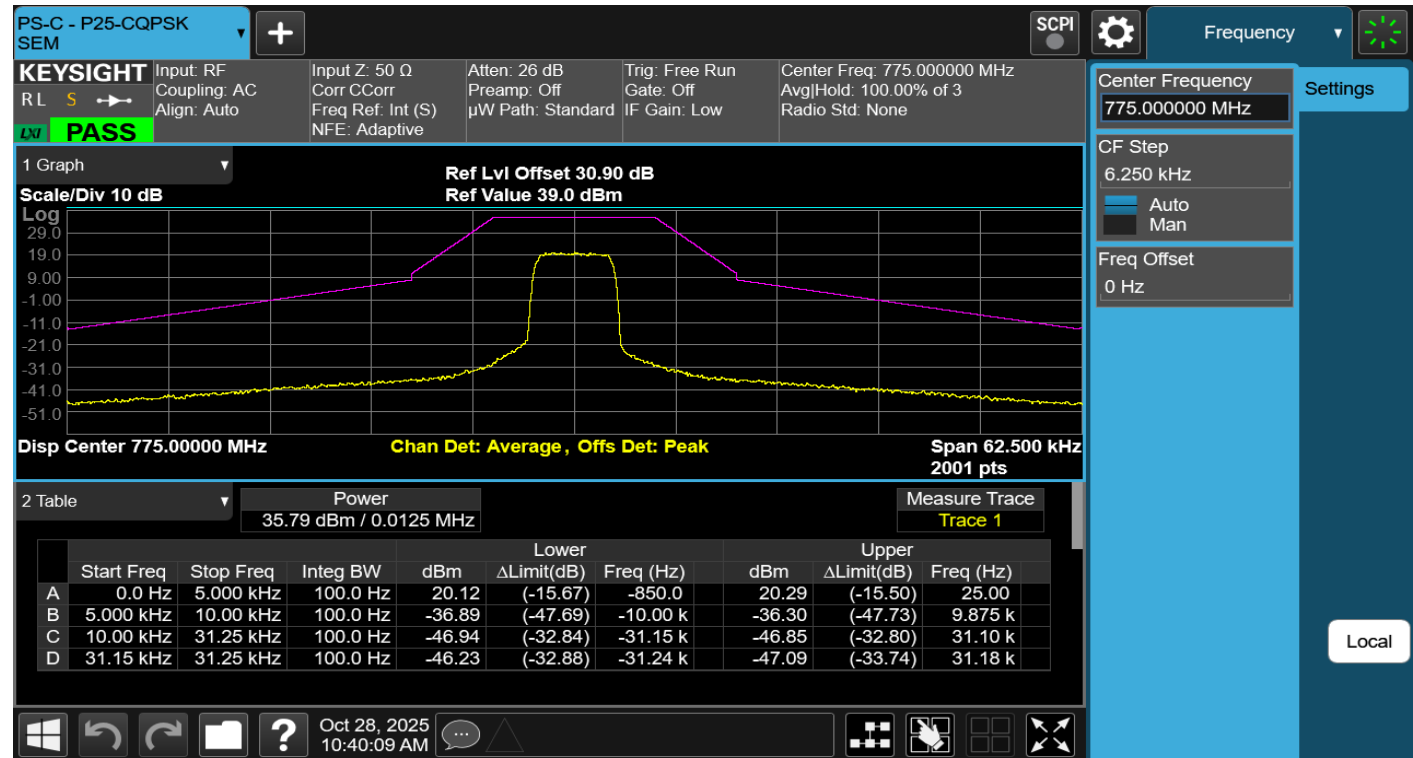
700PS SEM C4FM at 766.5 MHz



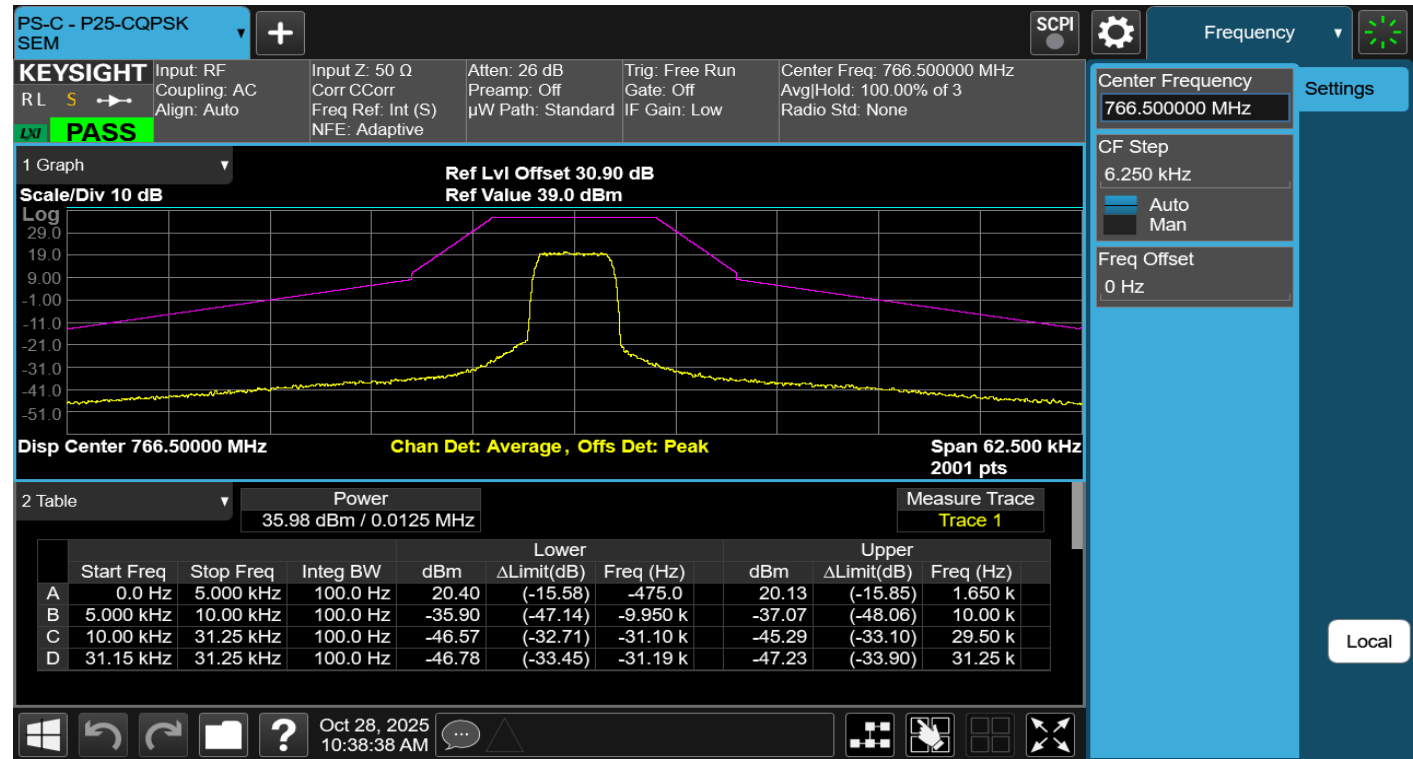
700PS SEM C4FM at 758 MHz



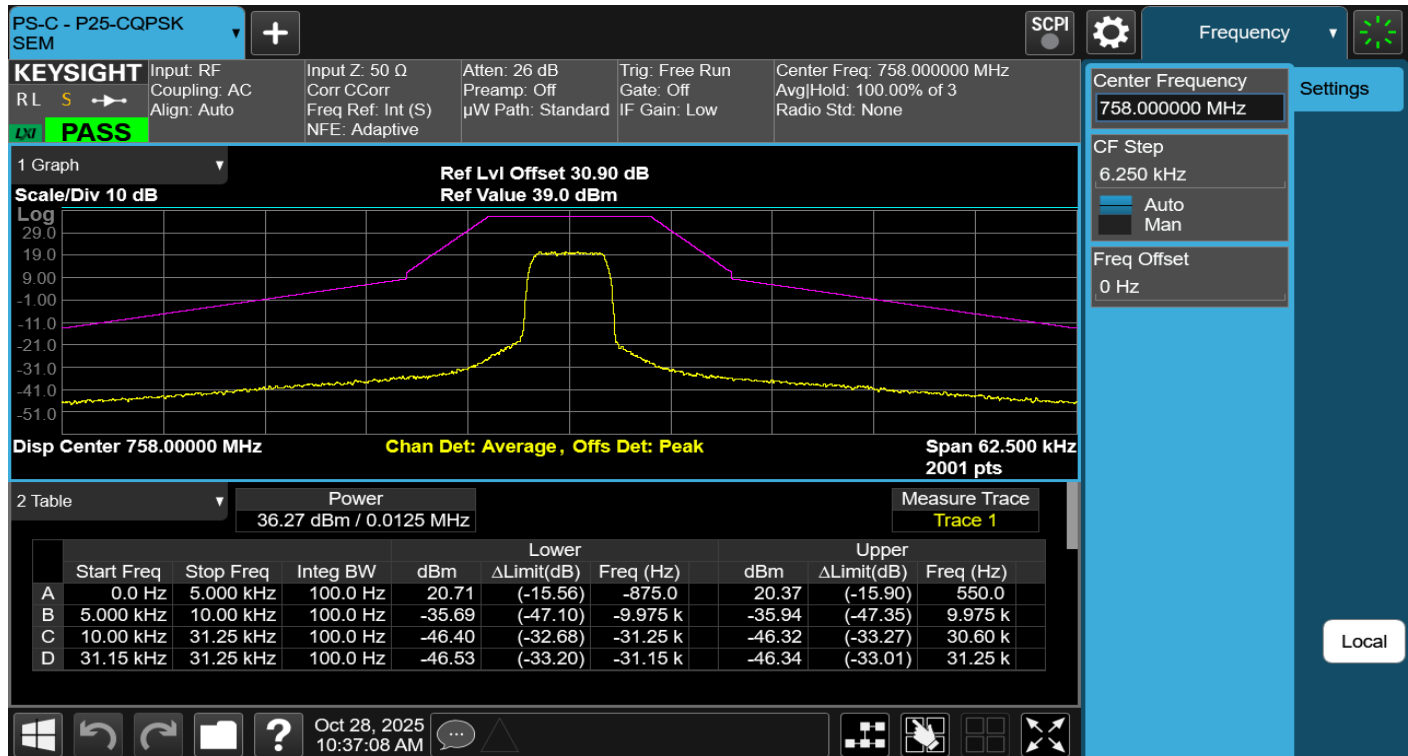
700PS SEM ALC CQPSK at 775 MHz



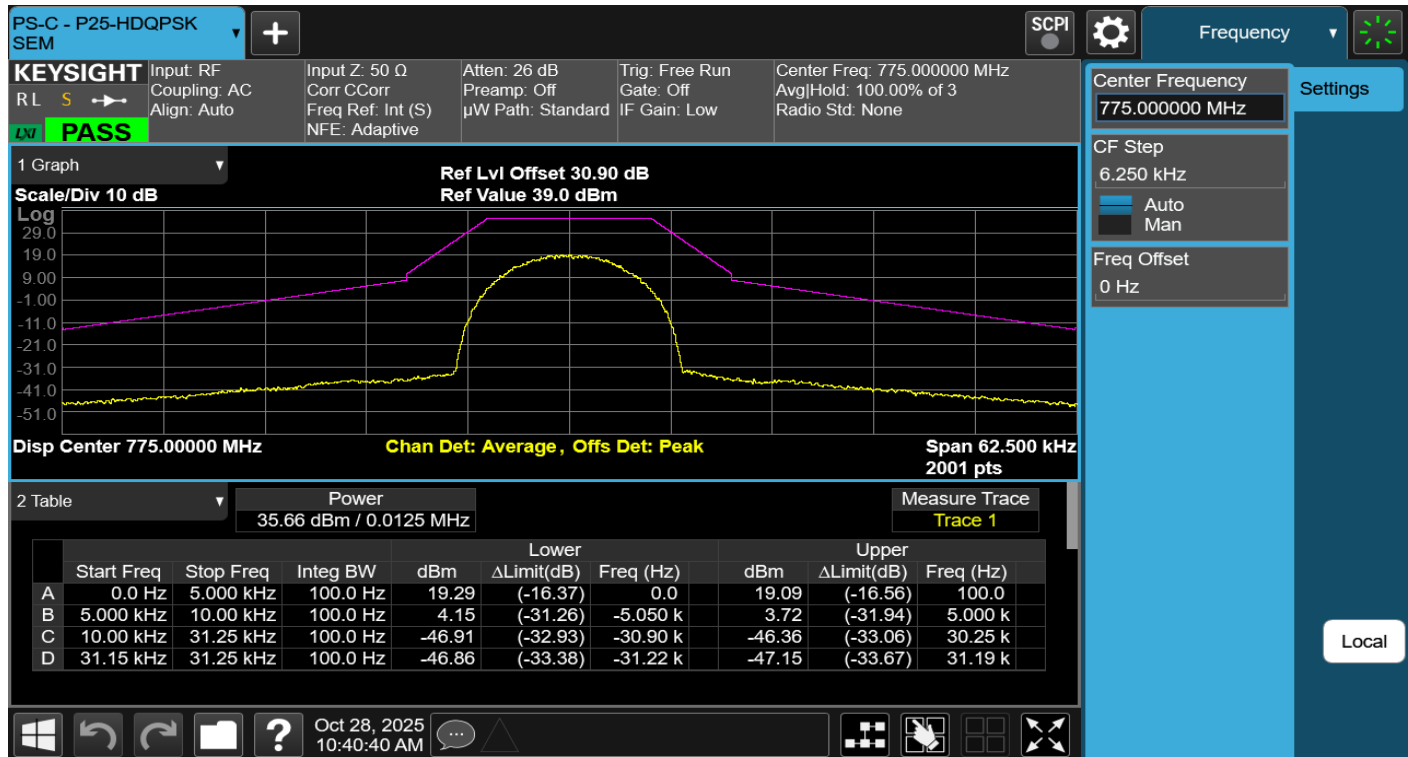
700PS SEM ALC CQPSK at 766.5 MHz



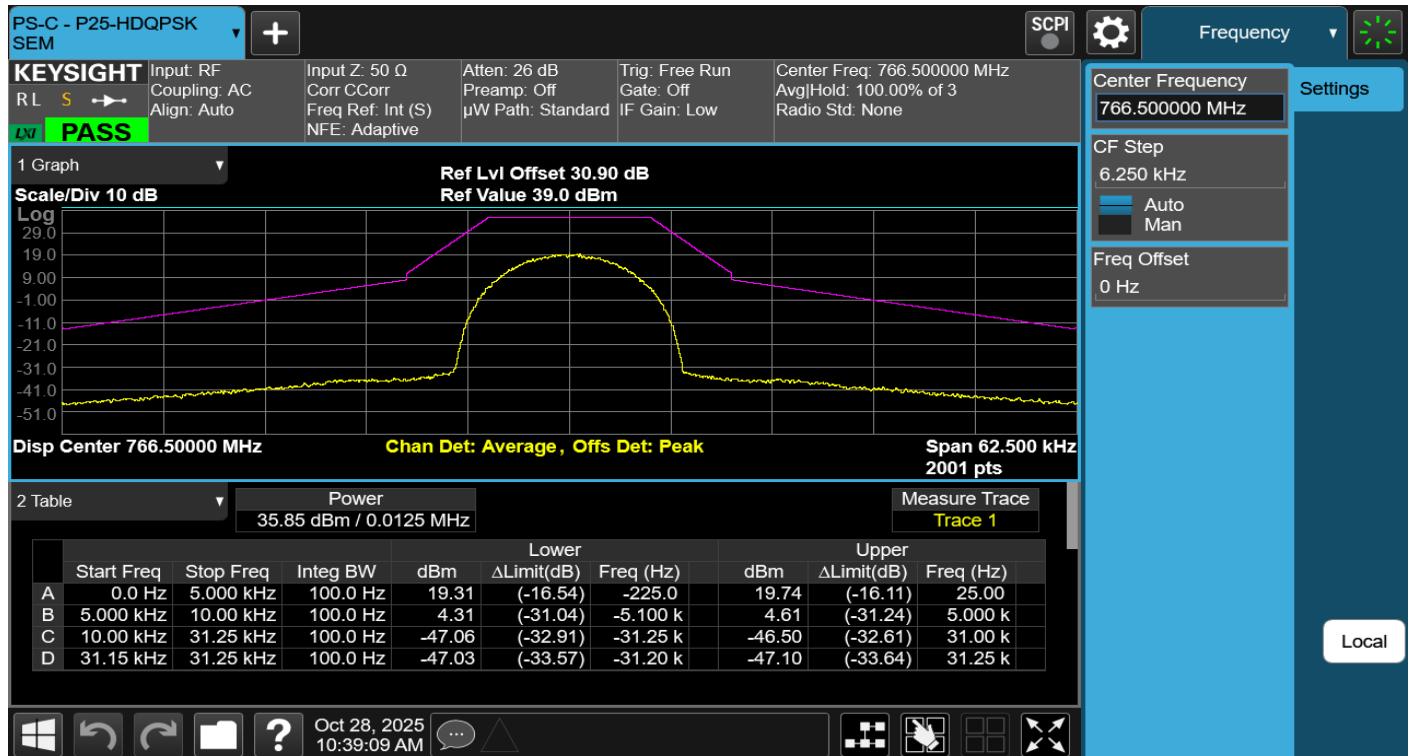
700PS SEM ALC CQPSK at 758 MHz



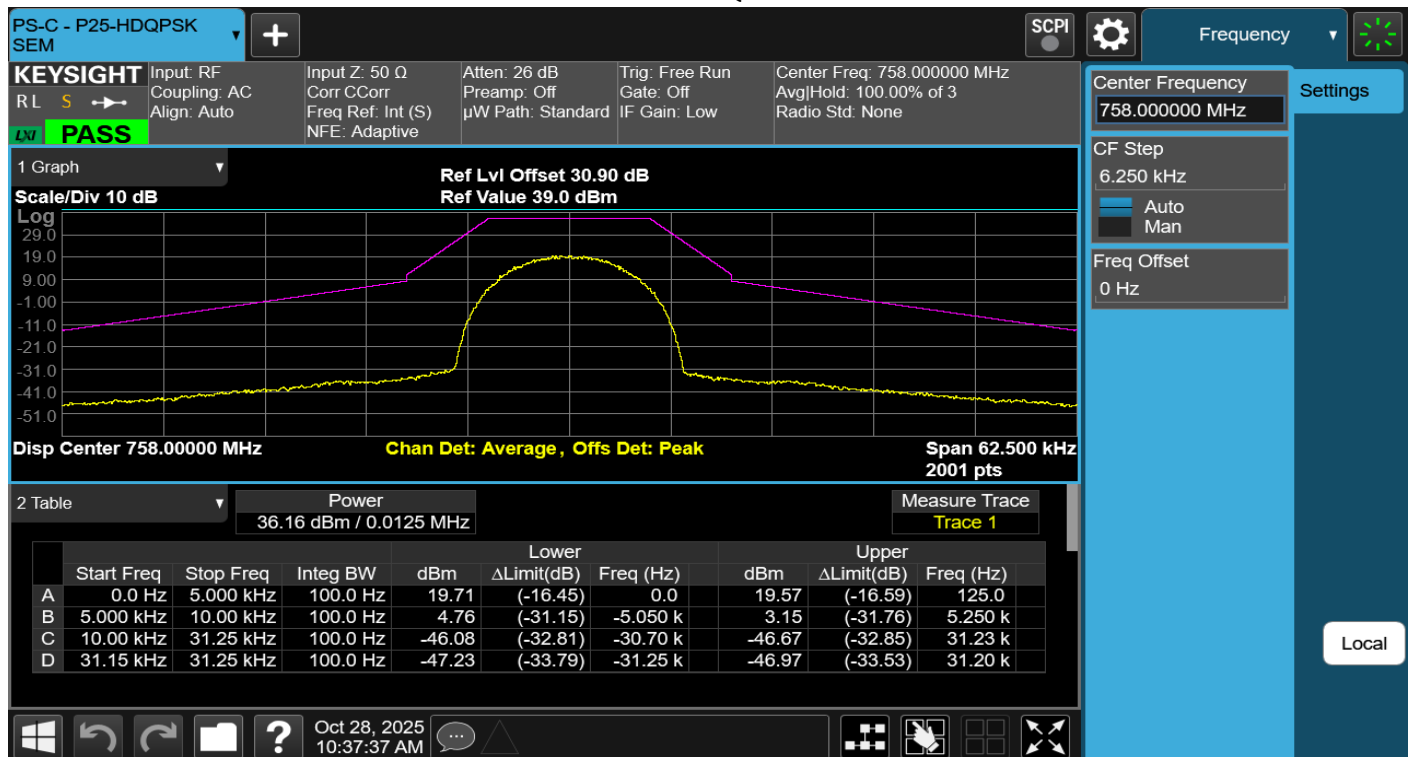
700PS SEM ALC HDQPSK at 775 MHz



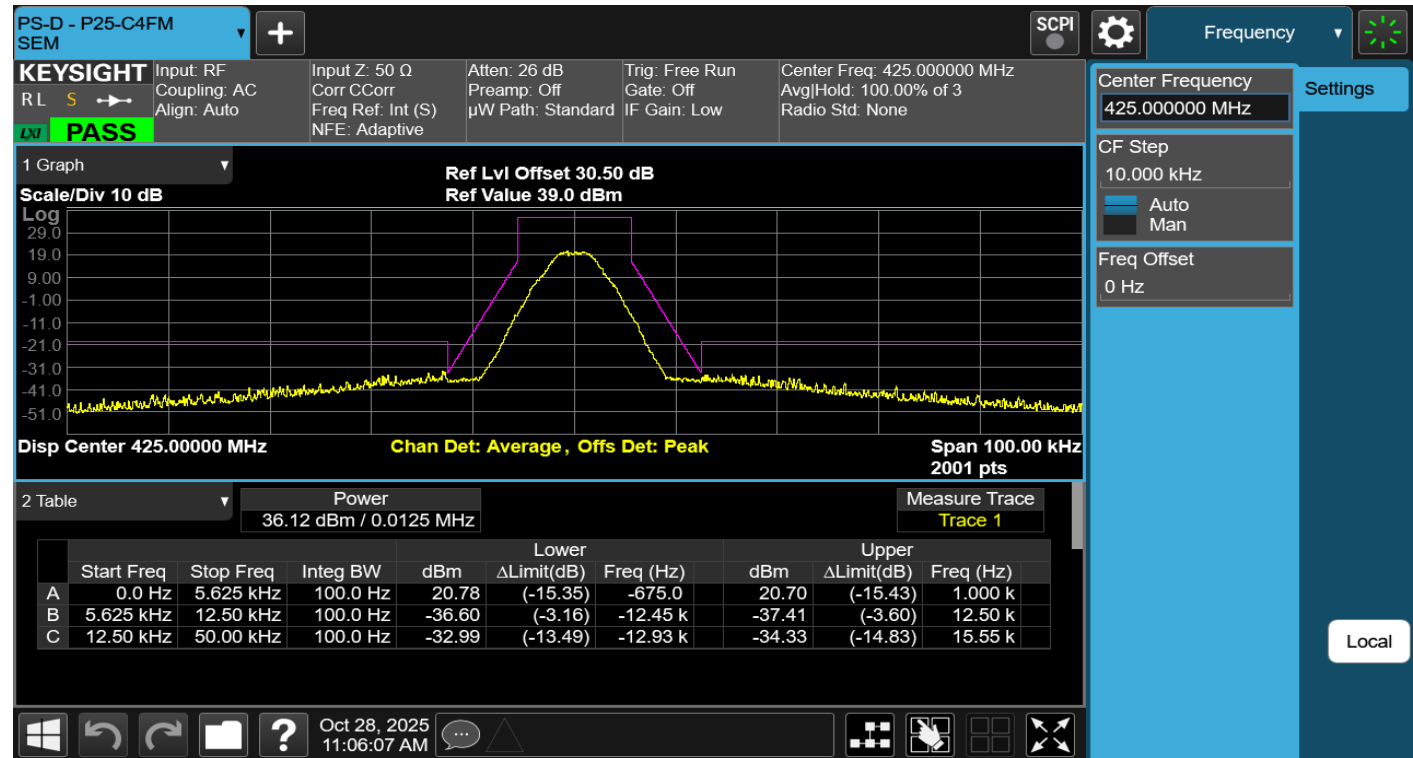
700PS SEM ALC HDQPSK at 766.5 MHz



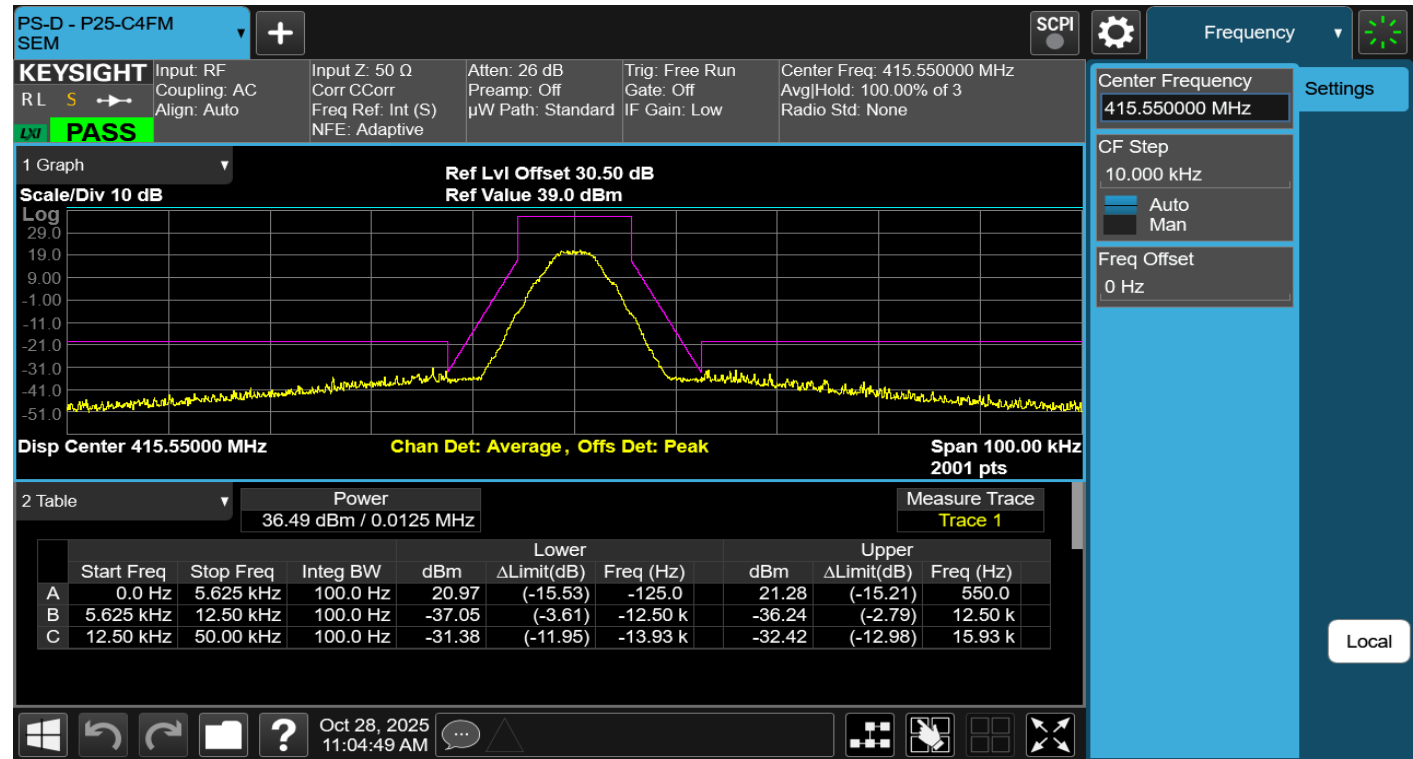
700PS SEM ALC HDQPSK at 758 MHz



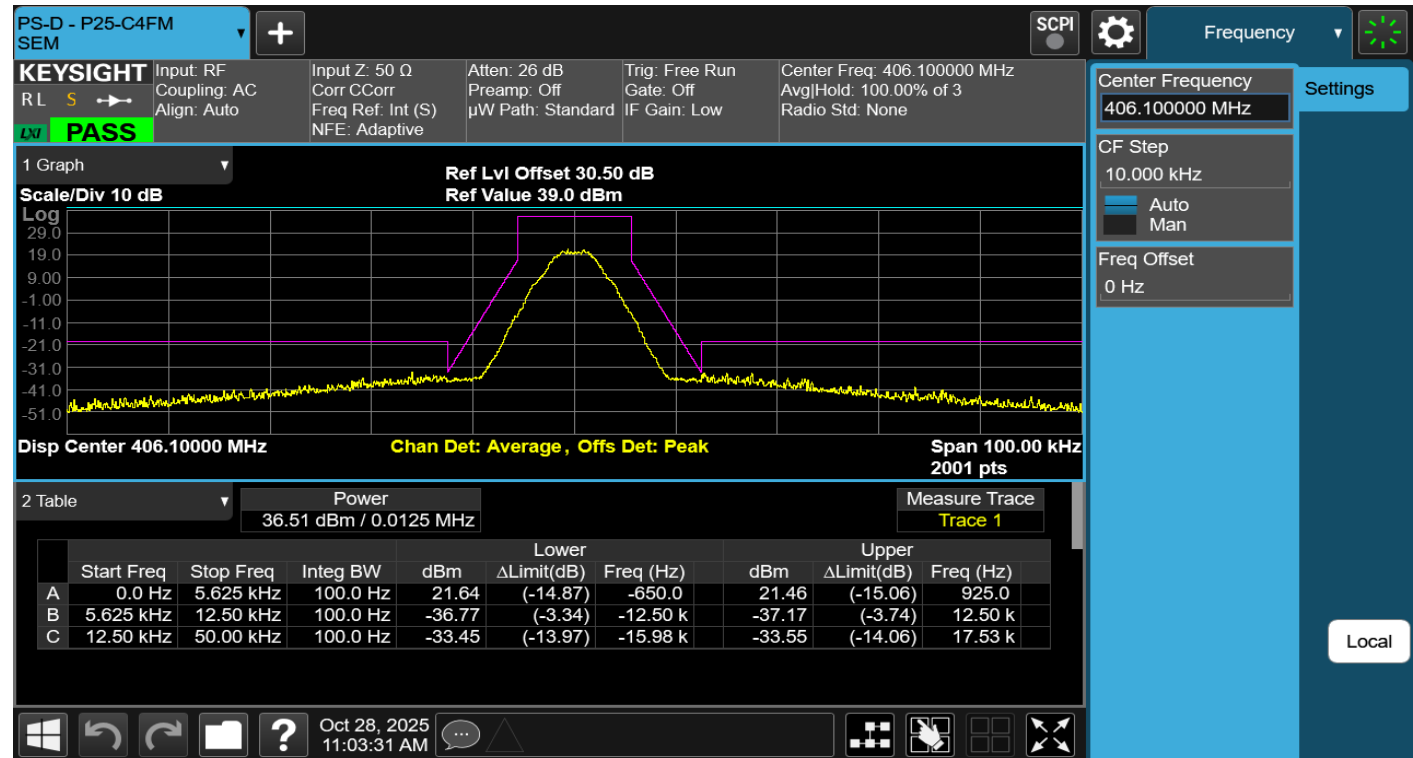
415PS SEM C4FM at 425 MHz



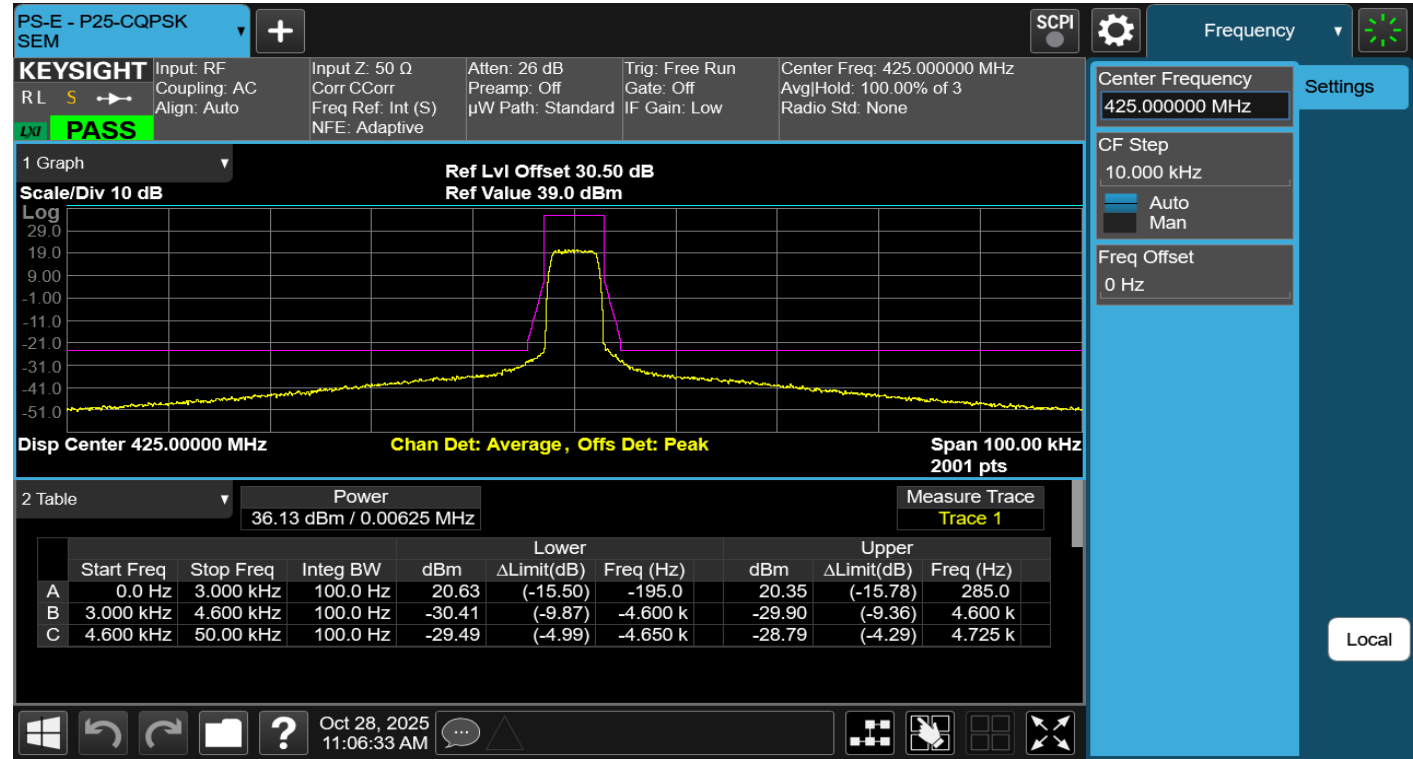
415PS SEM C4FM at 415.55 MHz



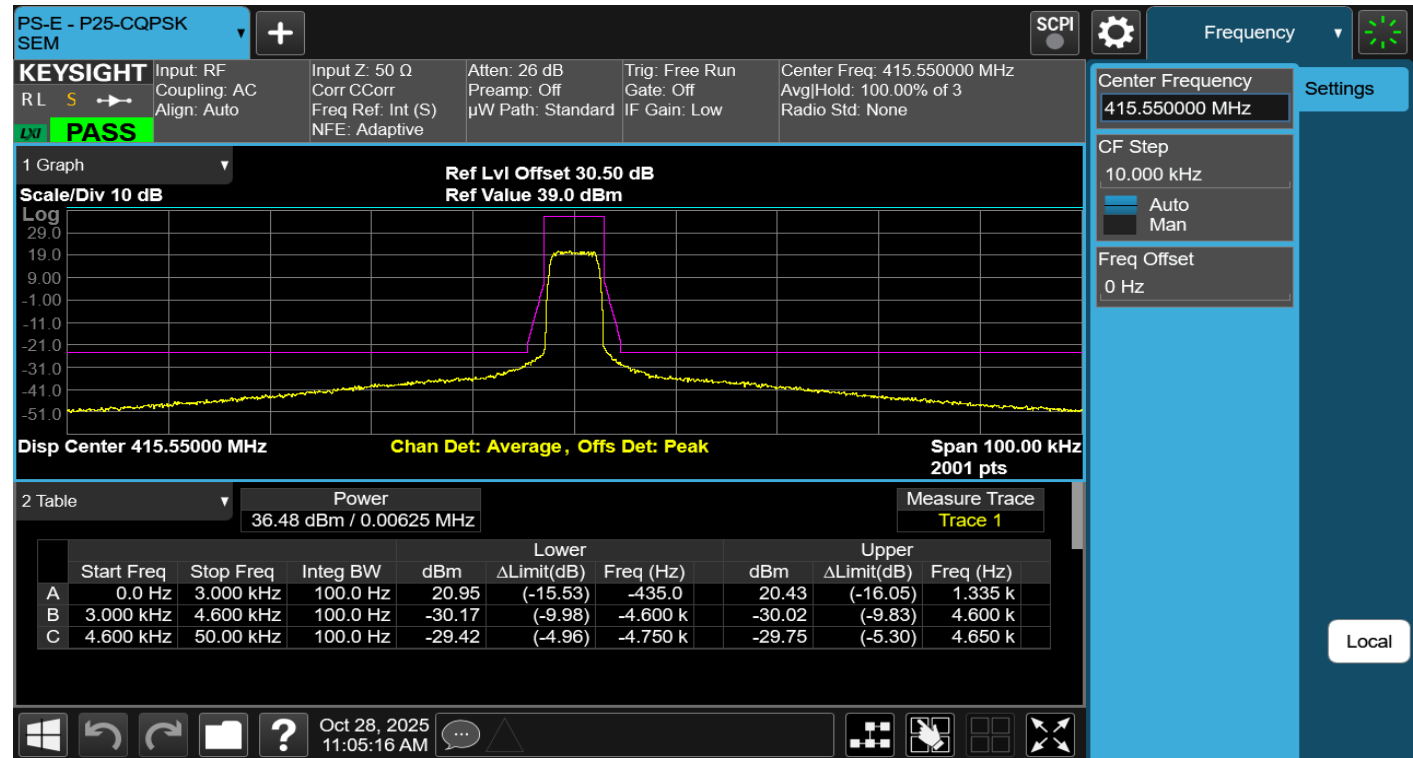
415PS SEM C4FM at 406.1 MHz



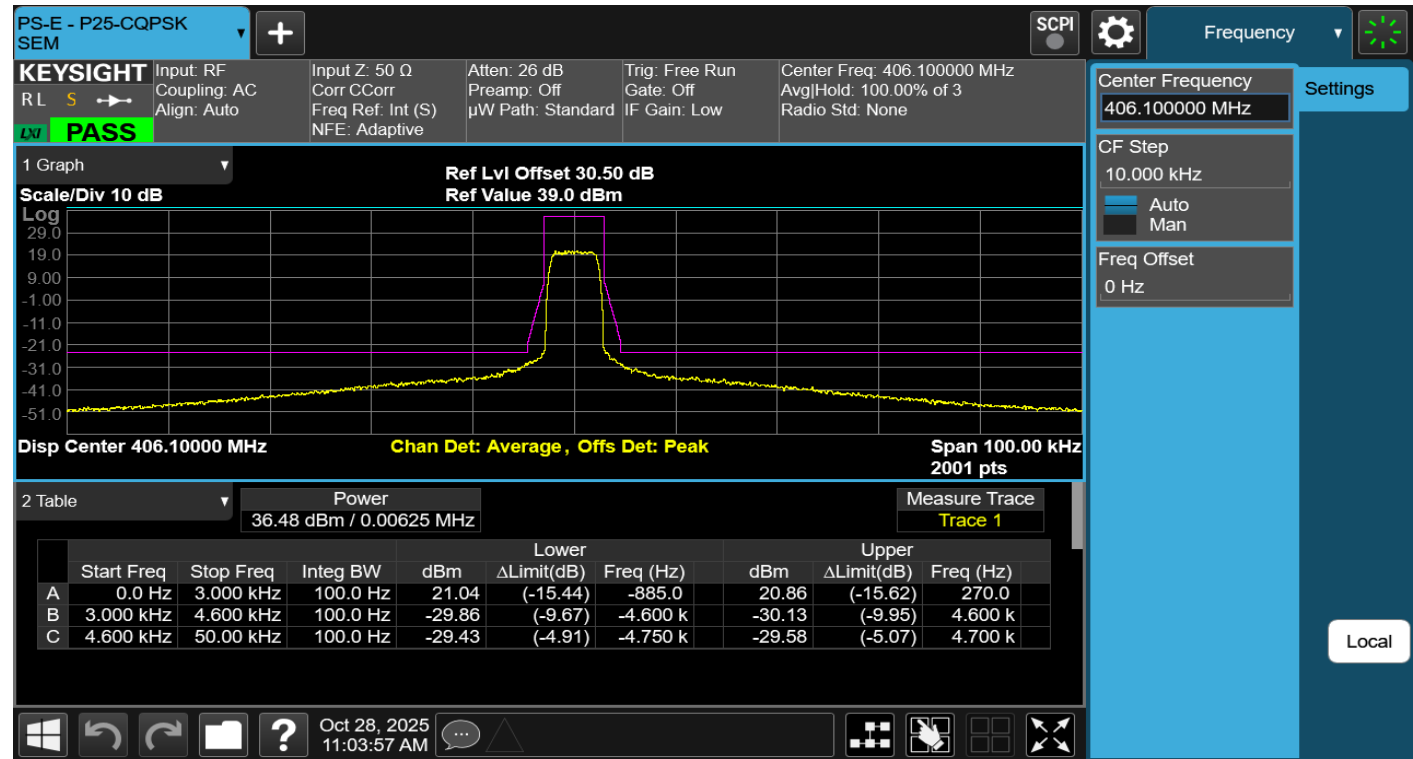
415PS SEM CQPSK at 425 MHz



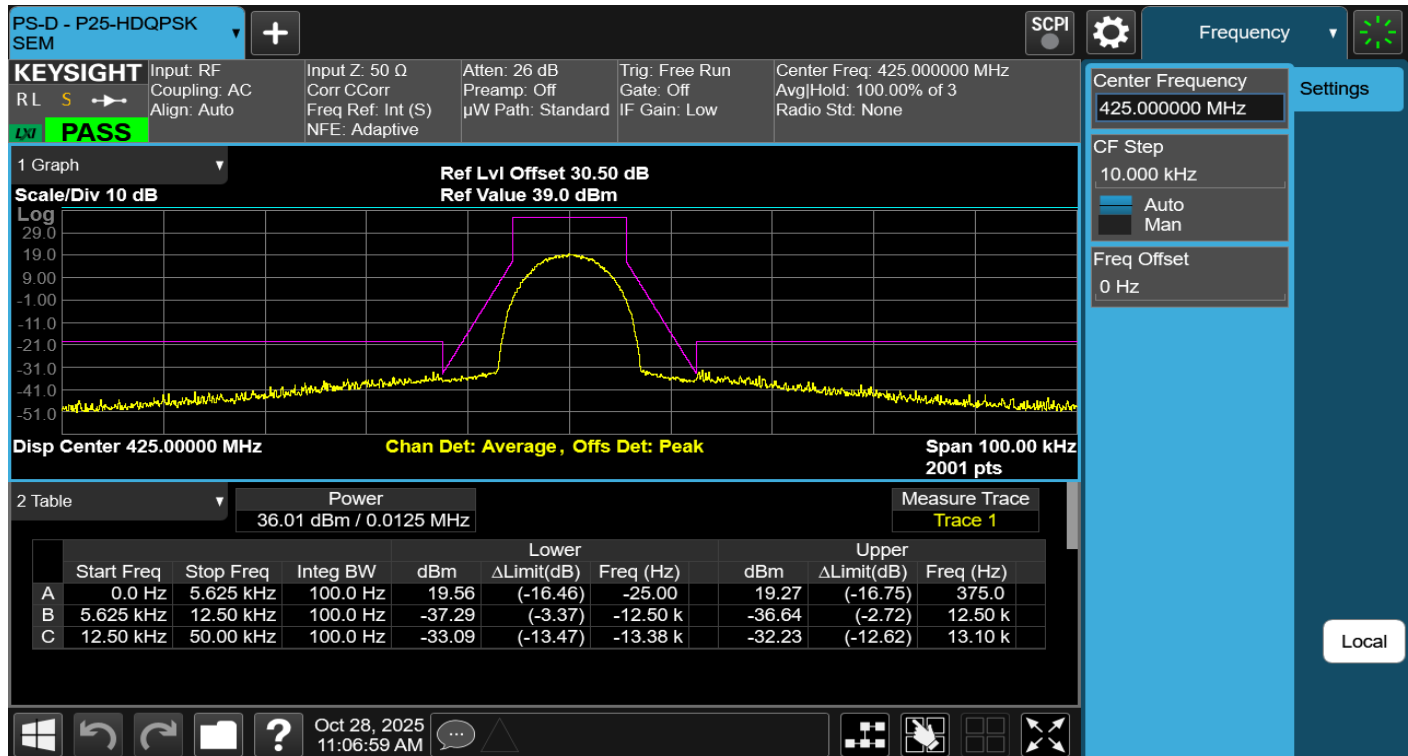
415PS SEM CQPSK at 415.55 MHz



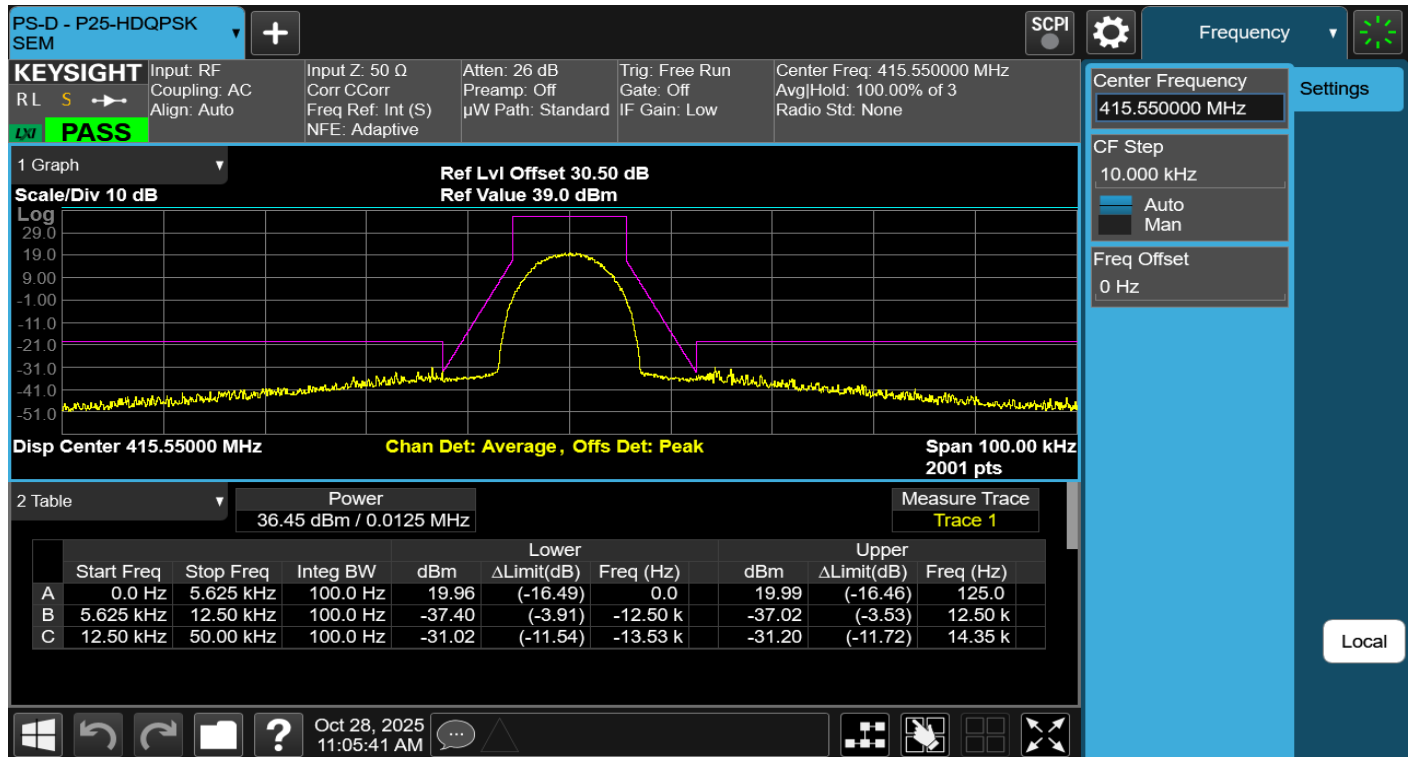
415PS SEM CQPSK at 406.1 MHz



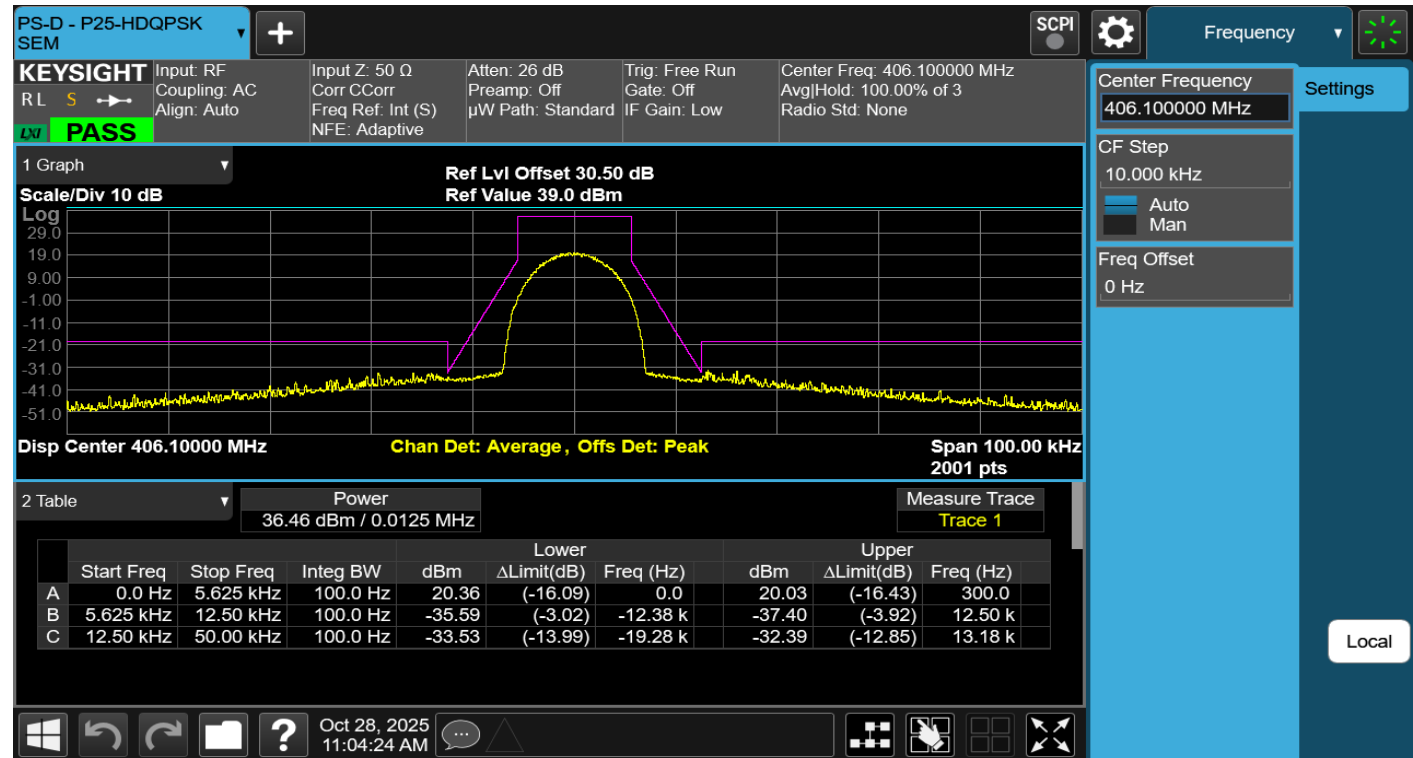
415PS SEM HDQPSK at 425 MHz



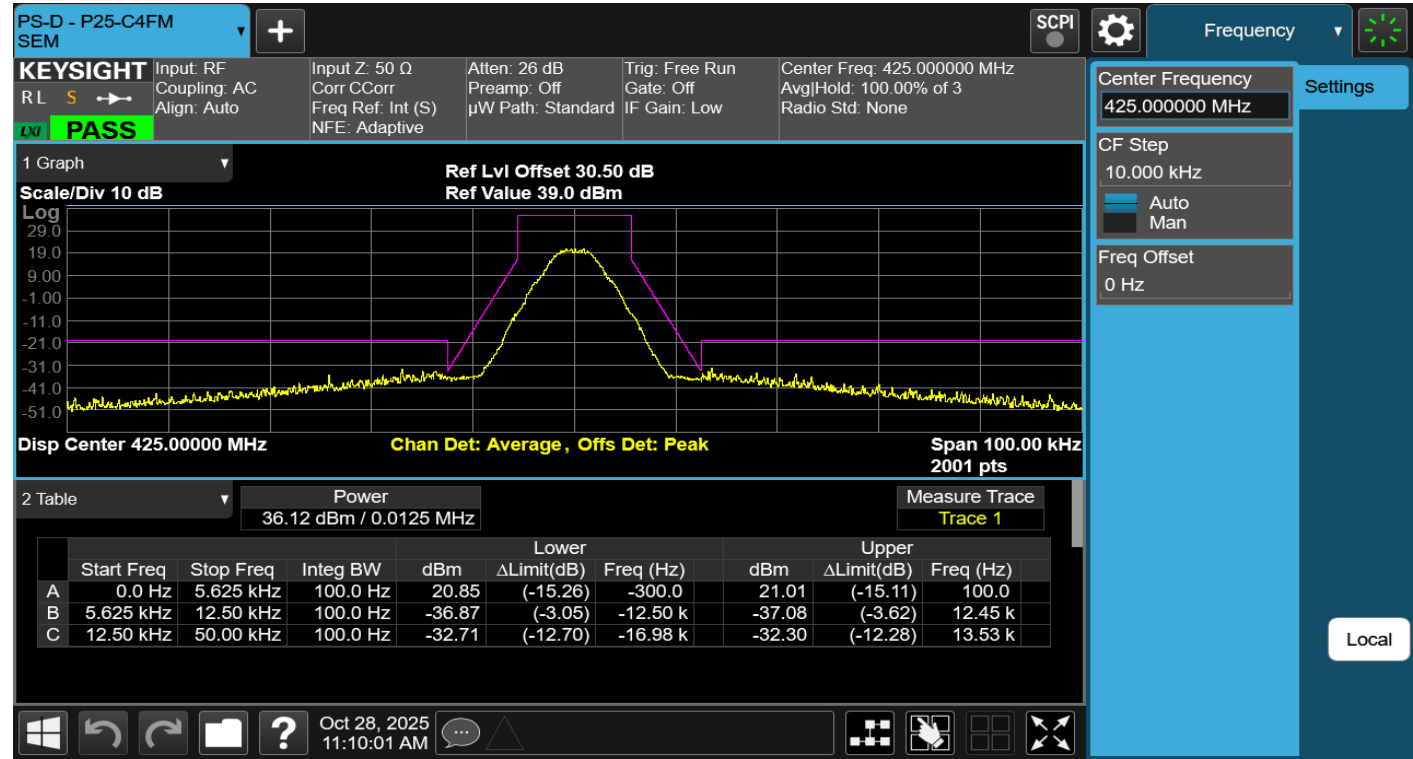
415PS SEM HDQPSK at 415.55 MHz



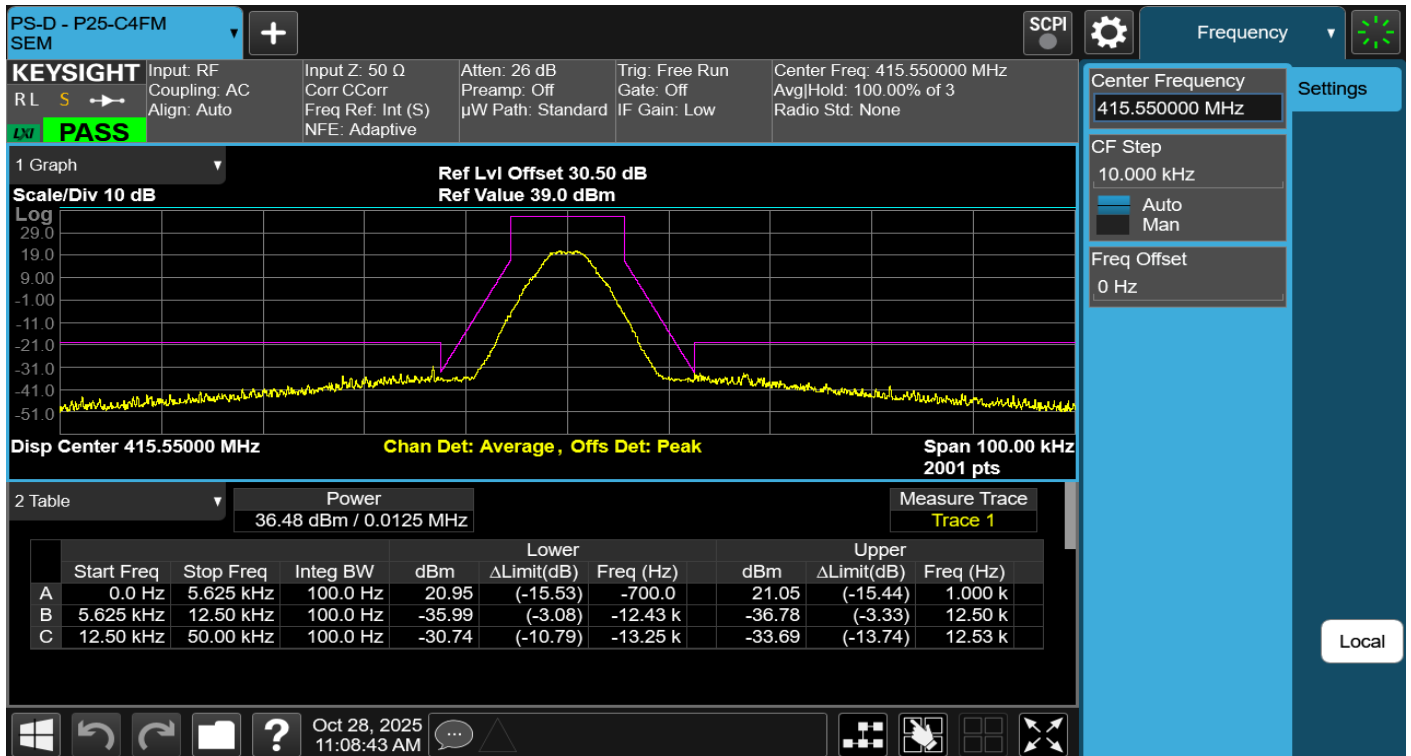
415PS SEM HDQPSK at 406.1 MHz



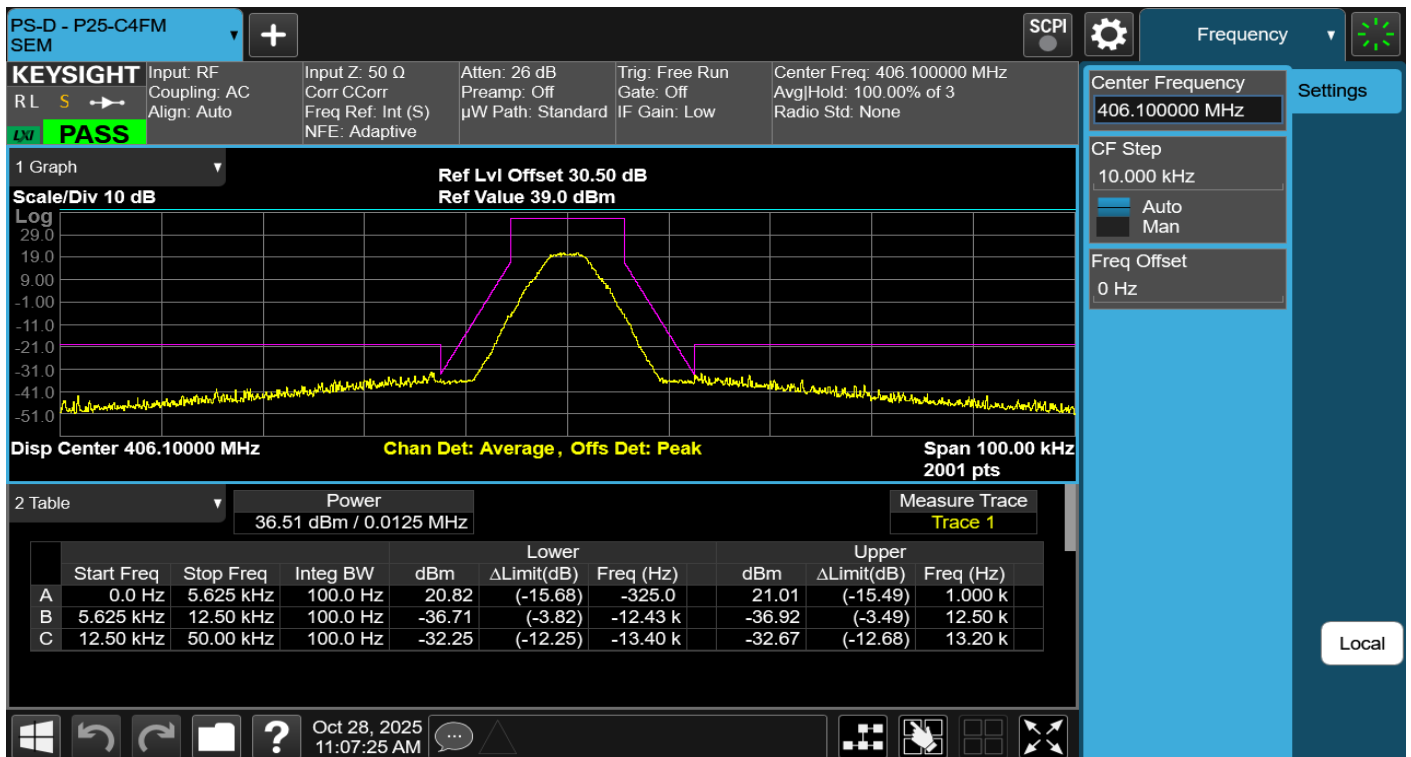
415PS SEM C4FM at 425 MHz



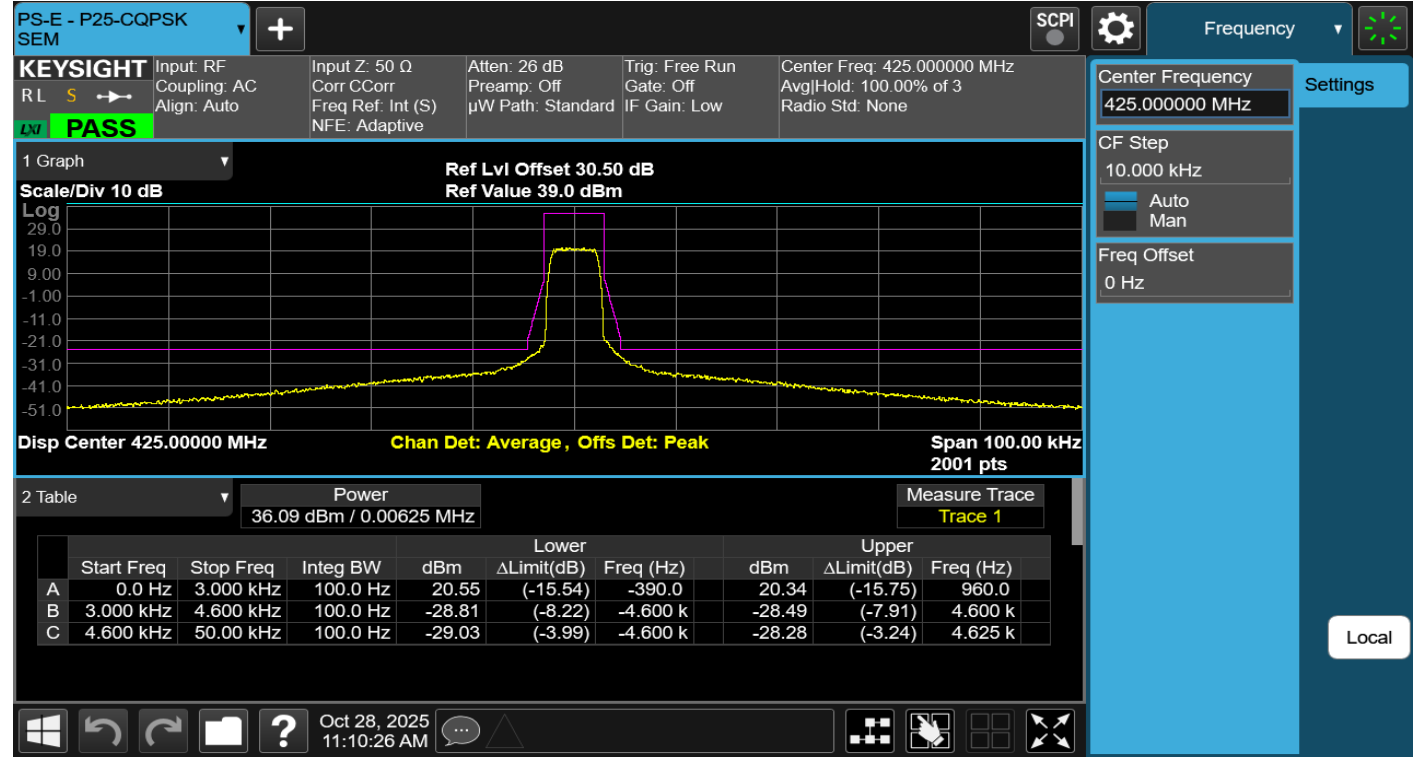
415PS SEM C4FM at 415.55 MHz



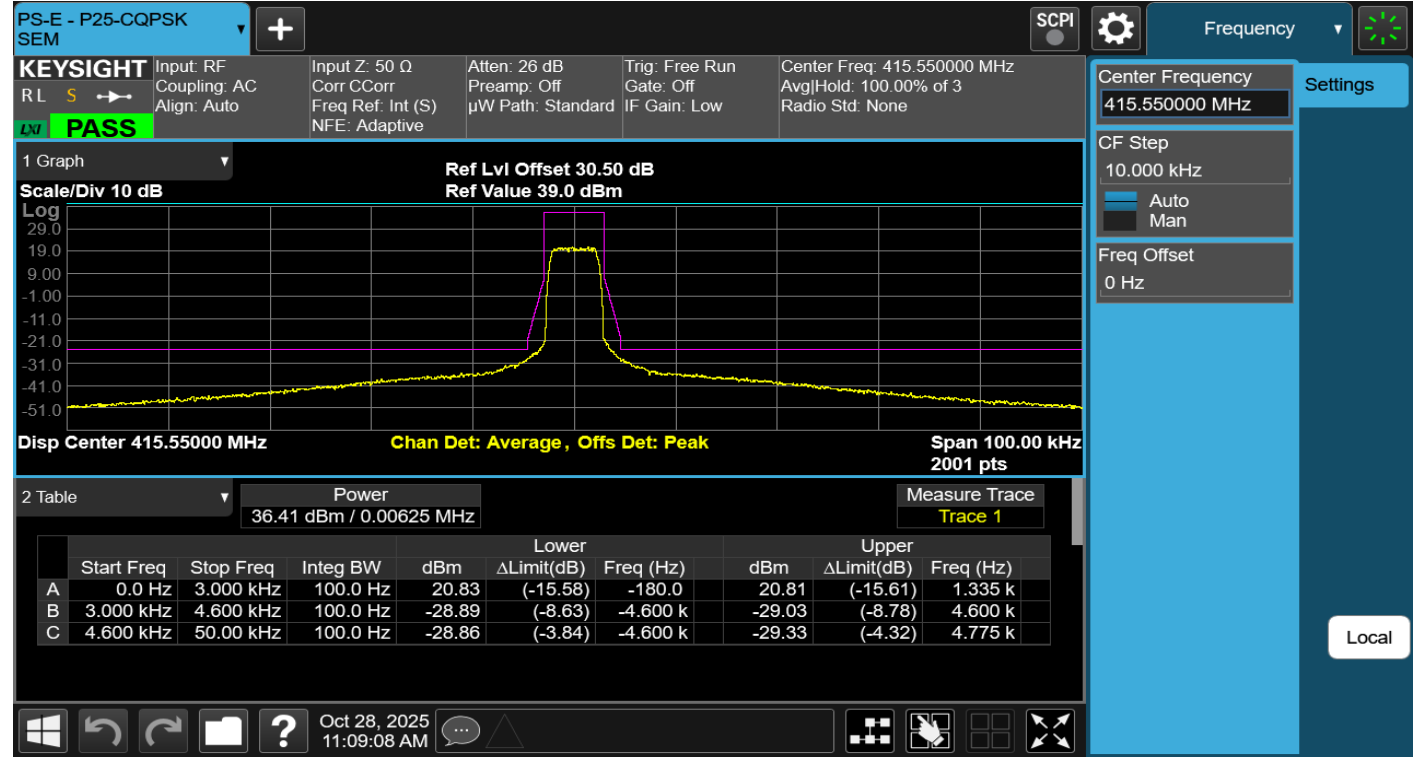
415PS SEM C4FM at 406.1 MHz



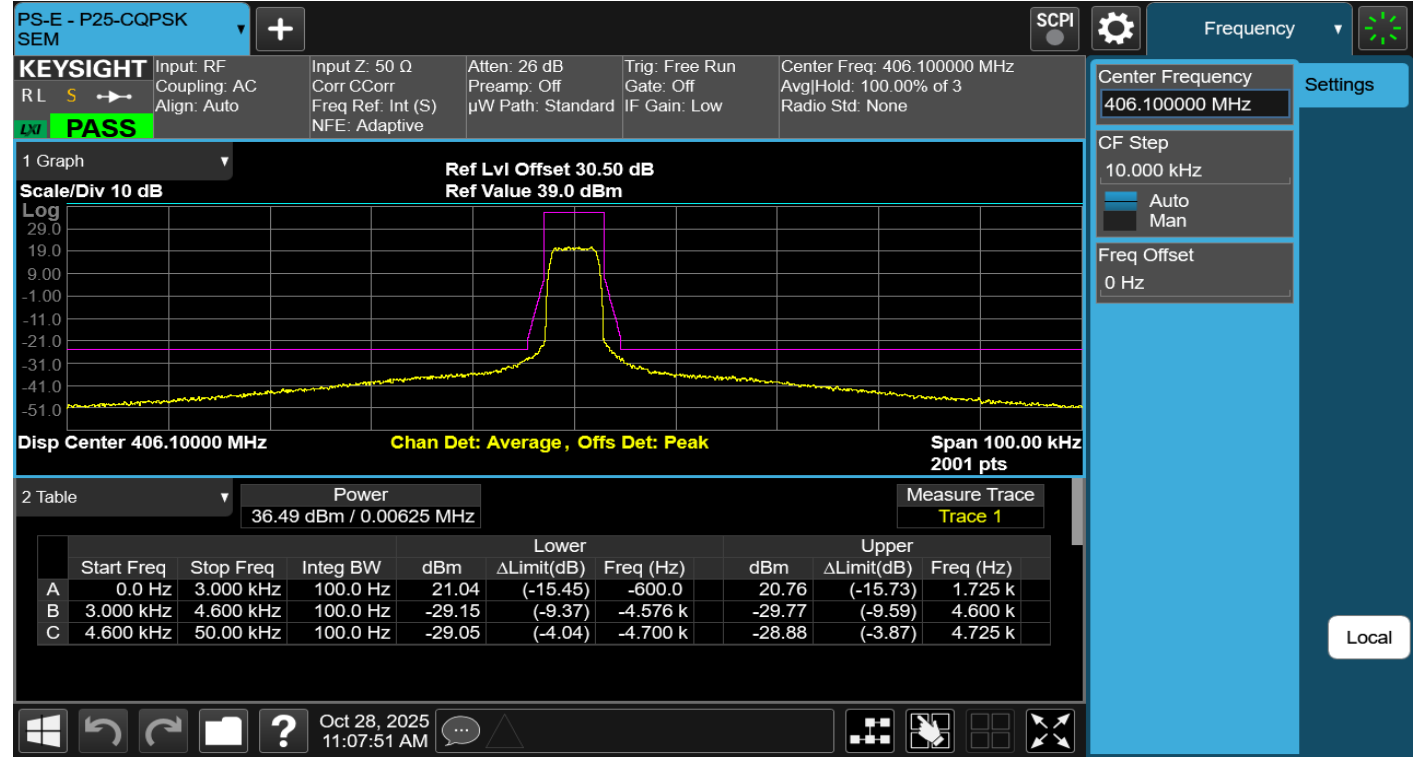
415PS SEM ALC CQPSK at 425 MHz



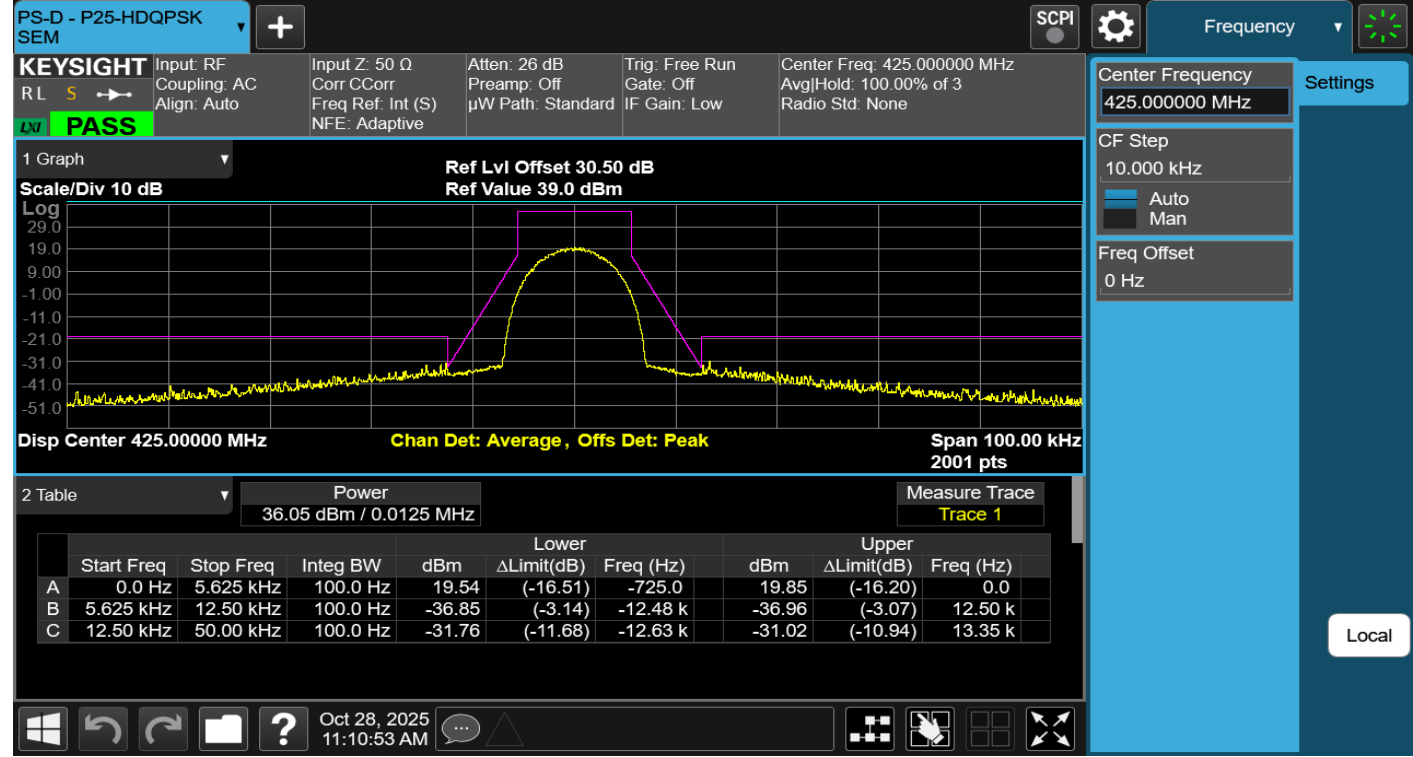
415PS SEM ALC CQPSK at 415.55 MHz



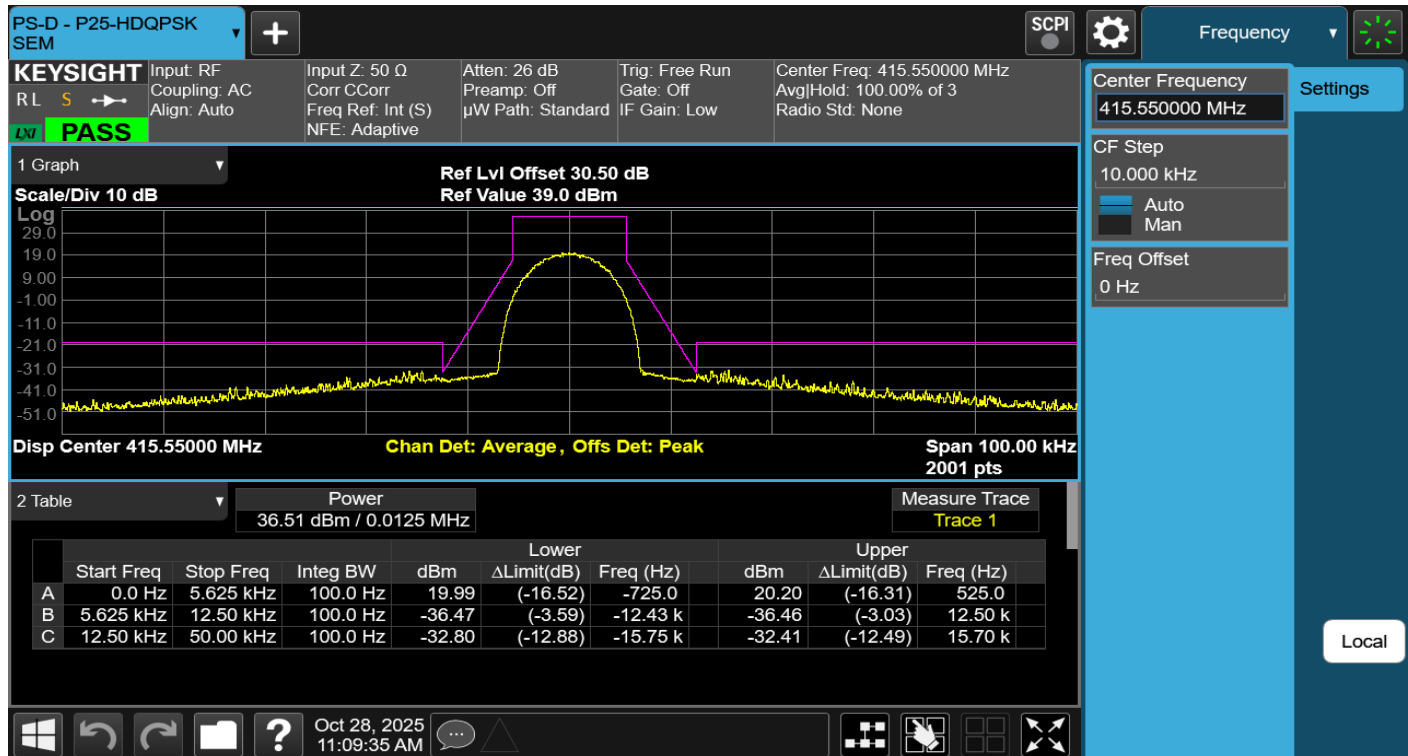
415PS SEM ALC CQPSK at 406.1 MHz



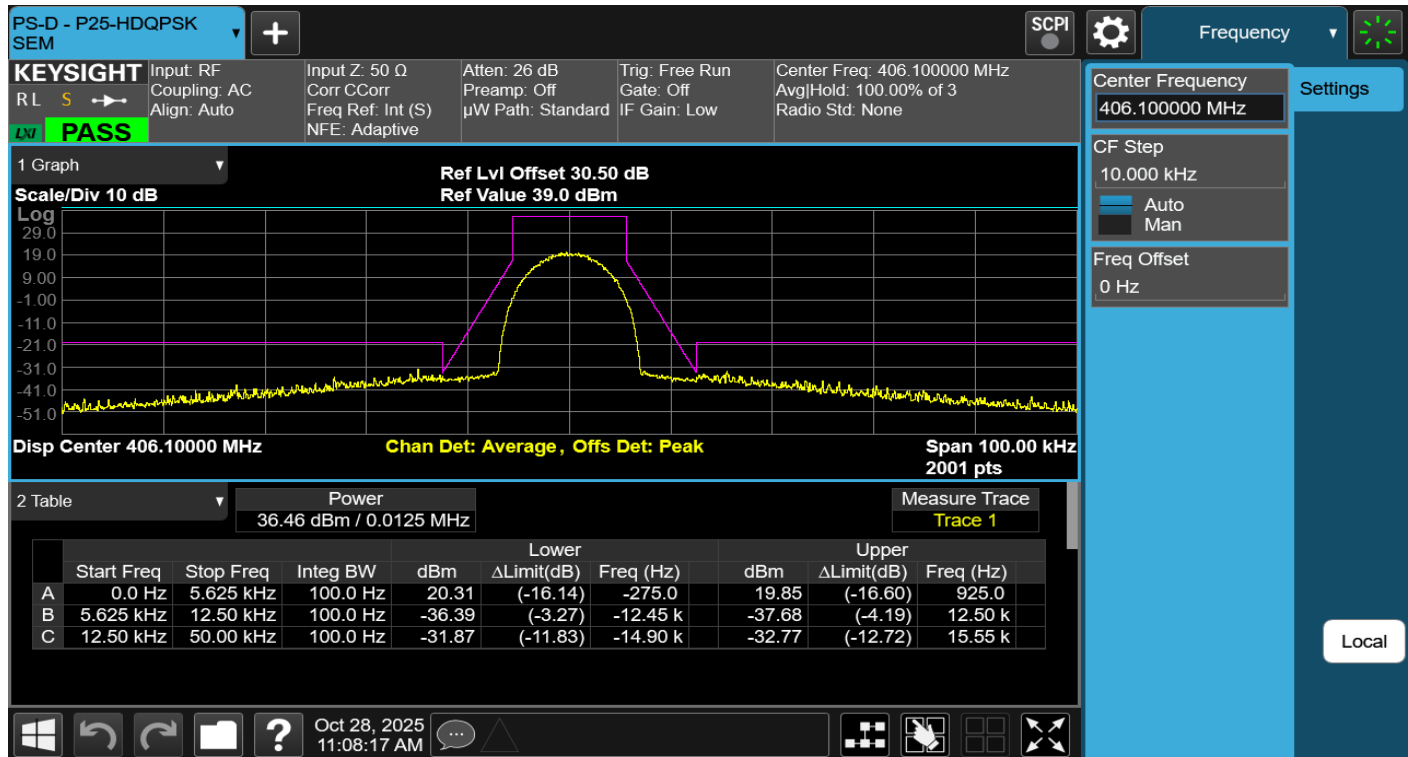
415PS SEM ALC HDQPSK at 425 MHz



415PS SEM ALC HDQPSK at 415.55 MHz



415PS SEM ALC HDQPSK at 406.1 MHz



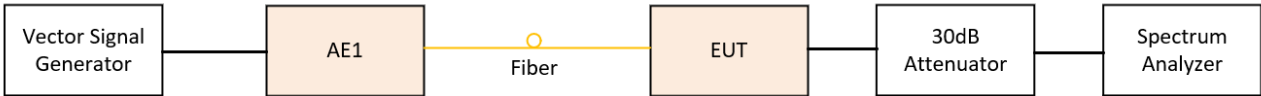
5. Input/Output Power and Amplifier/Booster Gain

Standard	FCC Part 90.219
Test method	FCC KDB 935210 D05, v01r03, Section 4.5; ANSI TIA-603- E-2016
Test Engineer	Jack Qin
Test Date	2026-02-02
Applied limit	This test is a characterization per FCC KDB 935210 D05 Section 4.3. No regulatory limit is specified.
Result Summary	Refer to section 5.2 for results.
Test Result	Compliant

5.1 Test Setup

A CW tone was input at the frequency where the system gain is the maximum in the pass band, with the nominal input power level. The spectrum analyzer was connected to the output RF port via a 50 Ohm 30 dB attenuator. The maximum hold trace and peak detector was used to capture the output power. The output power minus the input power equals to the booster gain in dB.

The EUT was set to Operation Mode #1.



5.2 Test Results

Test Band	Frequency (MHz)	Input Power (dBm)	Output Power (dBm)	Gain (dB)
800 PS	860	-52.8	36.63	89.4
700 PS	766.5	-52.8	36.31	89.1
UHF PS	415.55	-53.0	36.43	89.4

6. Out-Of-Band / Out-Of-Block Intermodulation and Spurious Emissions

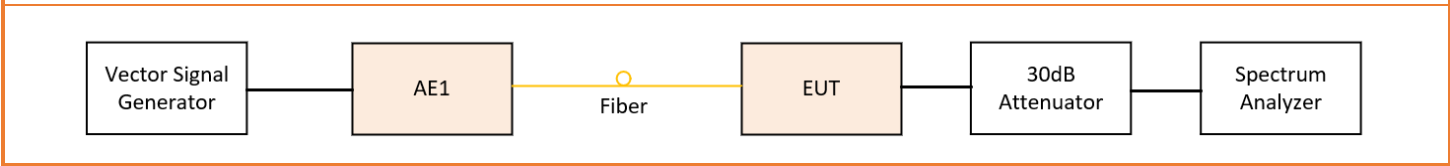
Standard	FCC Part 90.219, 90.210
Test method	FCC KDB 935210 D05, v01r03, Sections 4.7.2 and 4.7.3; ANSI TIA-603- E-2016
Test Engineer	Jack Qin
Test Date	2026-02-02
Applied limit	≤ -13 dBm
Result Summary	On bands 800, 700 and UHF band intermodulation product of 2 tone is below the -13dBm emission limit with input power at 0.5 dB below ALC threshold at 2 dB below ALC threshold at 3 dB above ALC threshold
Test Result	Compliant

6.1 Test Results

The procedure used was ANSI C63.26-2015. Two tones (CW) method was used. The input power to the amplifier was set at maximum drive level by combining the two tones. The two tones were chosen in such a way (1) the third order intermodulation product frequencies are located within the pass band of the DUT and (2) they produce the worst-case emissions out of band.

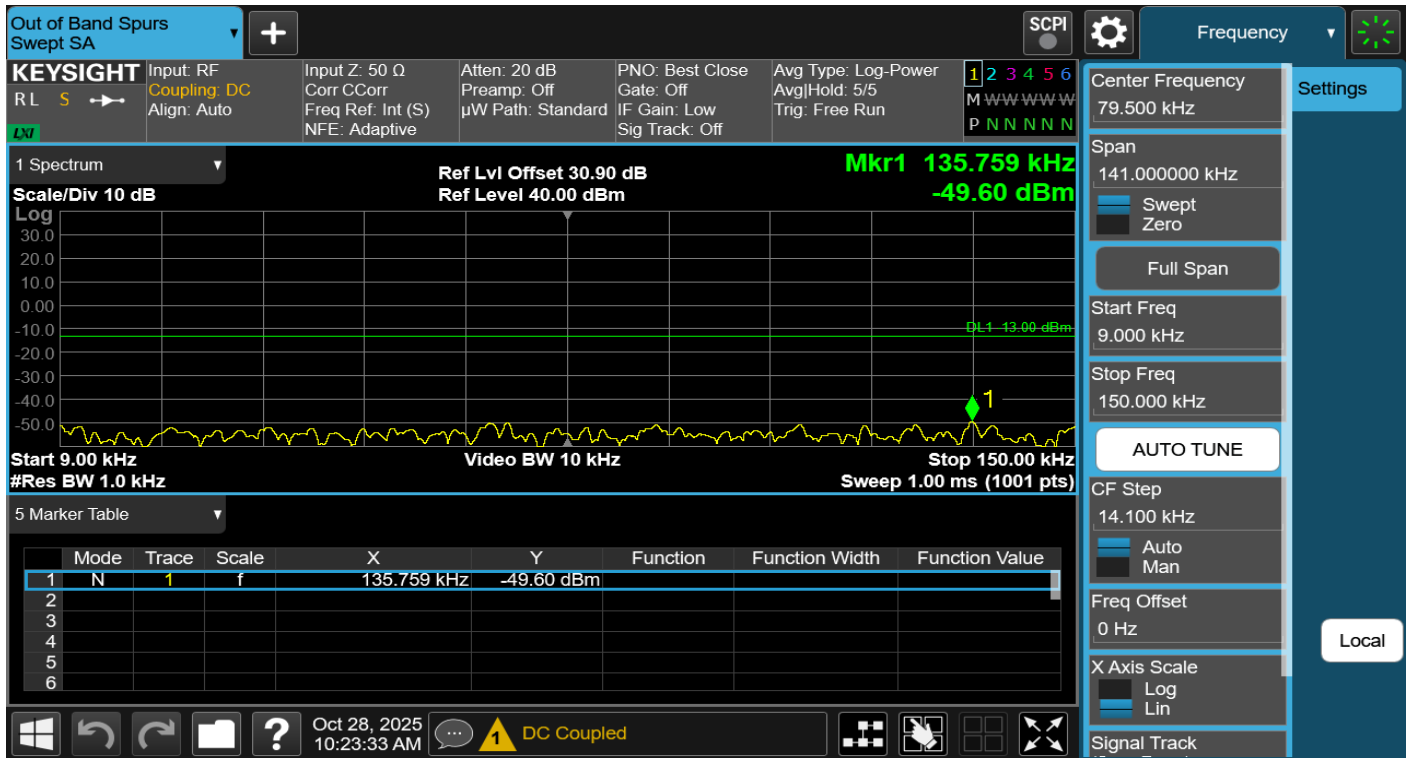
Based on FCC KDB 935210 D05 Indus Booster Basic Meas v01r03: 2019, the two tone was located on either side of the maximum gain frequency in the passing band, and separated with the available spacing, which is 12.5kHz. Measurements were performed with modulated tone at identical input amplitude which produced integrated maximum rated output power.

The EUT was set to Operation Mode #1.



6.2 Out-Of-Band / Out-Of-Block Intermodulation and Spurious Emissions Test Results

PS800 at 869 MHz R1 9KHz - 150KHz



PS800 at 869 MHz R2 150KHz - 30MHz

