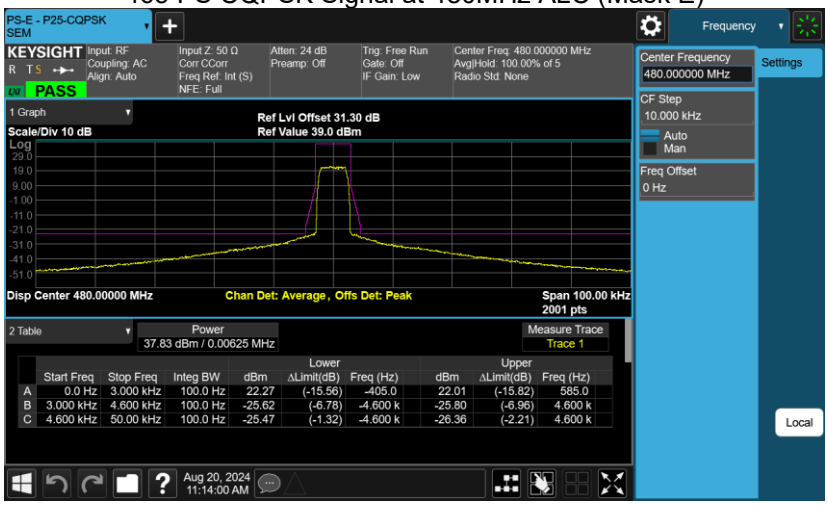
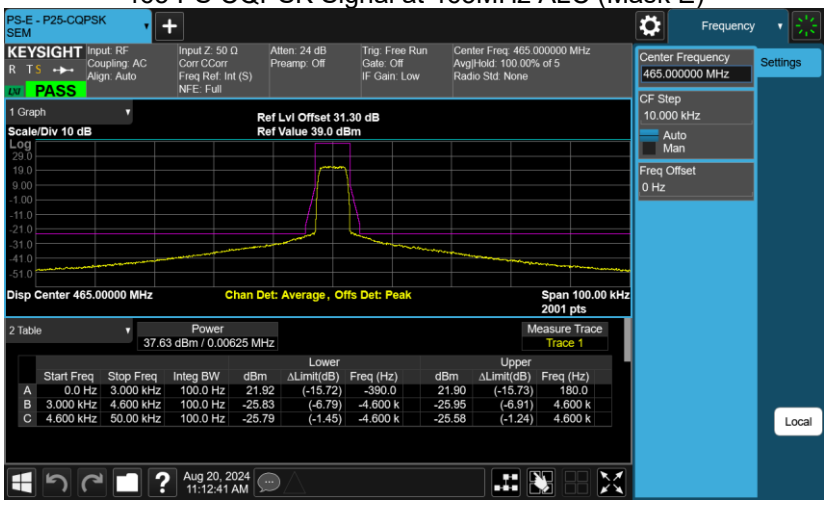
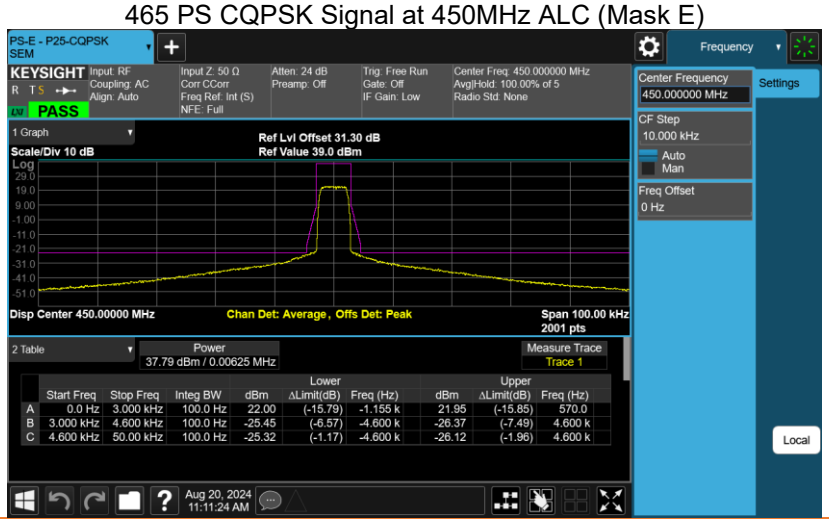
465 PS CQPSK Signal at 480MHz ALC (Mask E)



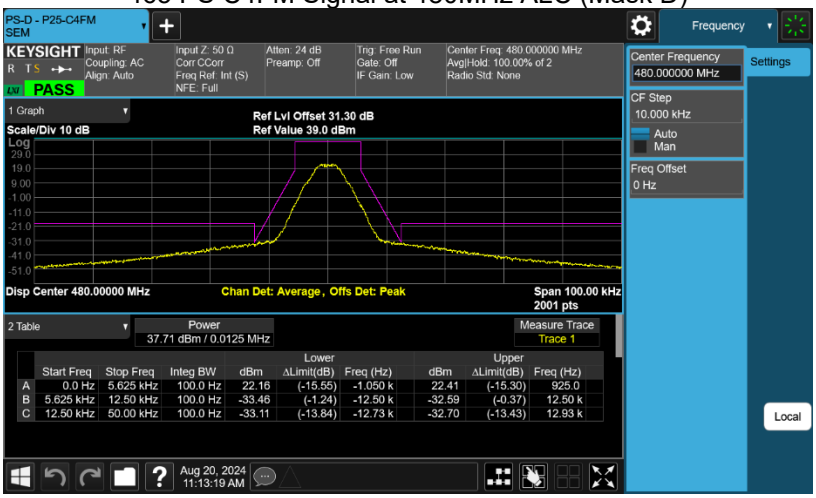
465 PS CQPSK Signal at 465MHz ALC (Mask E)



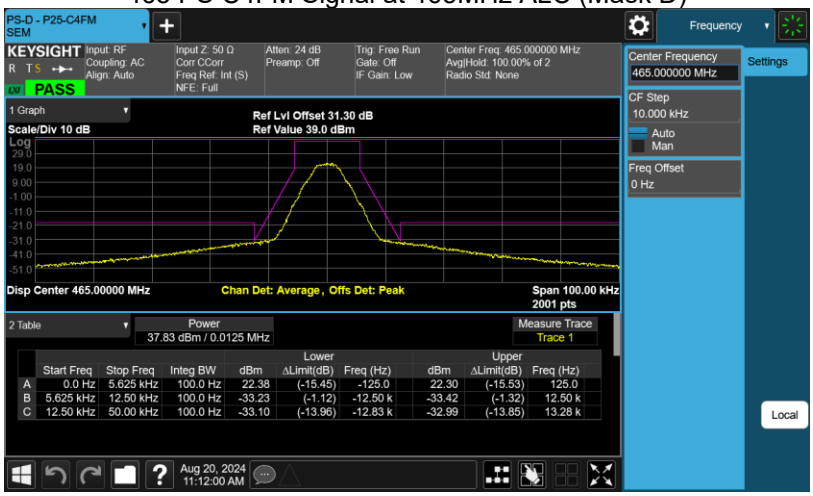
465 PS CQPSK Signal at 450MHz ALC (Mask E)



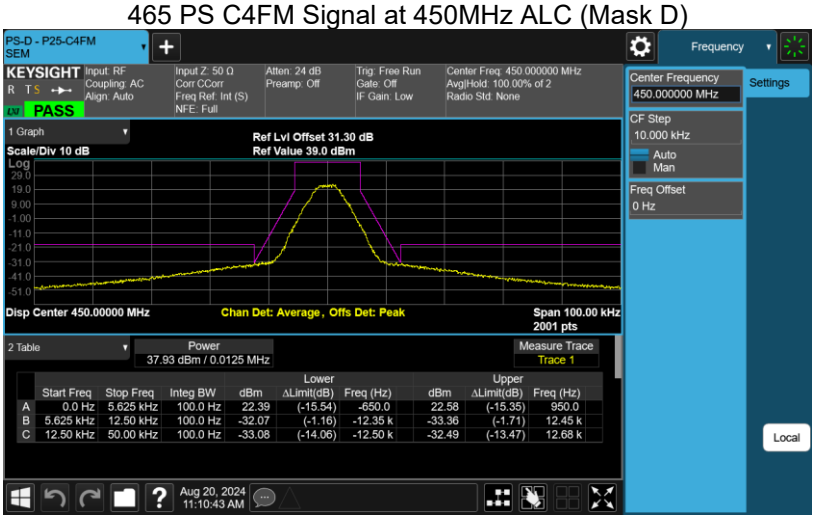
465 PS C4FM Signal at 480MHz ALC (Mask D)



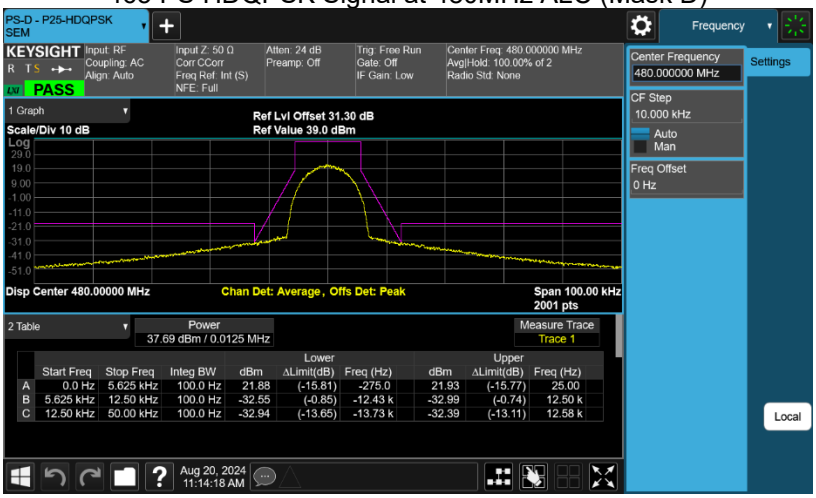
465 PS C4FM Signal at 465MHz ALC (Mask D)



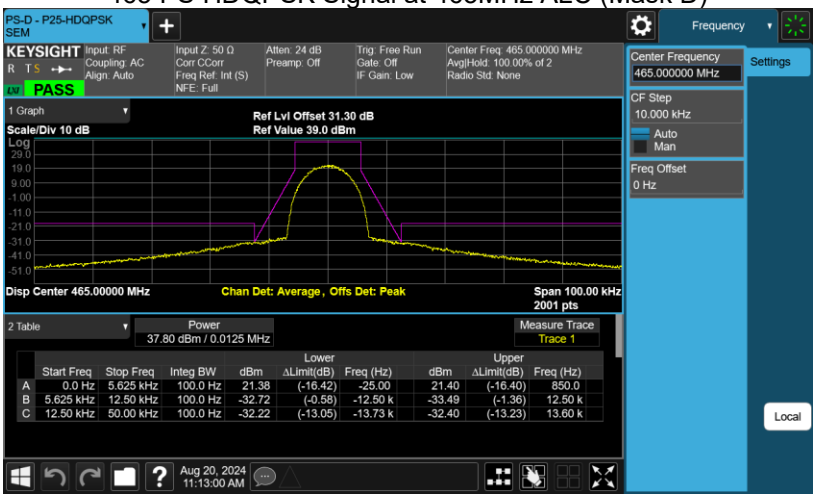
465 PS C4FM Signal at 450MHz ALC (Mask D)



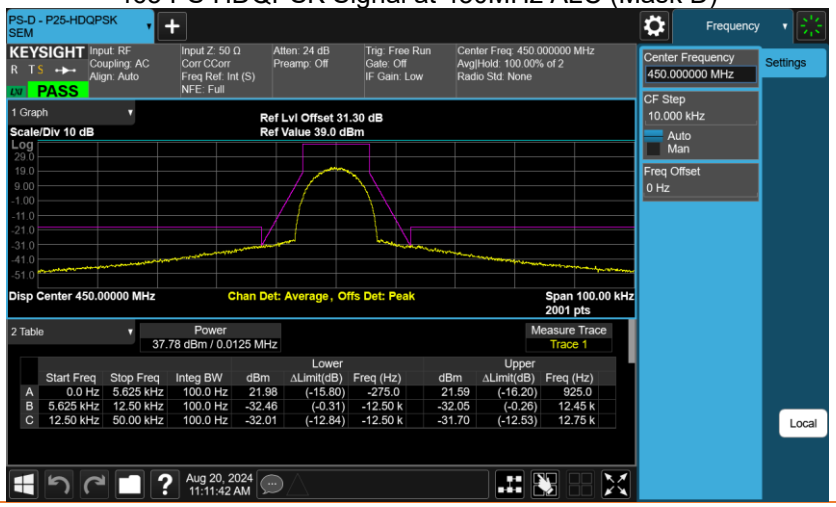
465 PS HDQPSK Signal at 480MHz ALC (Mask D)



465 PS HDQPSK Signal at 465MHz ALC (Mask D)

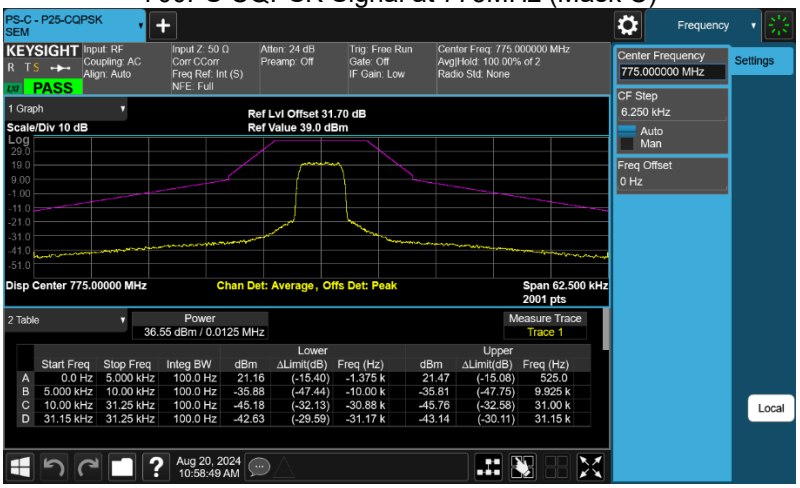


465 PS HDQPSK Signal at 450MHz ALC (Mask D)

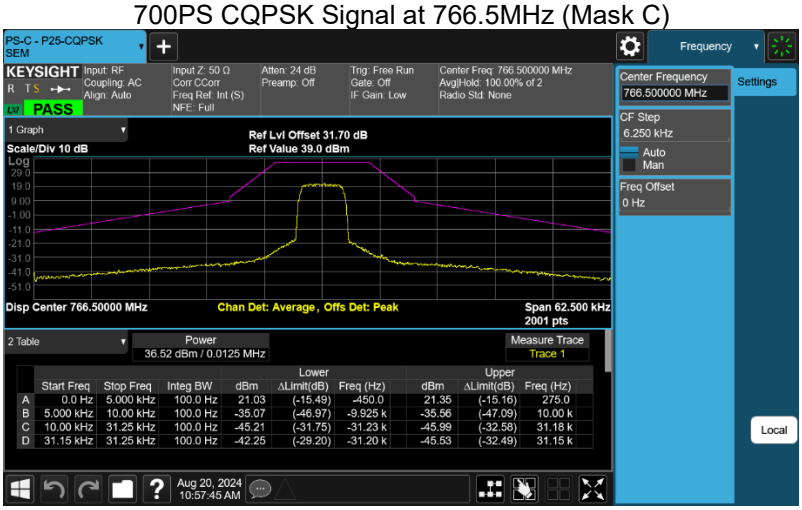


Results - Spectrum Emission Mask (700PS)

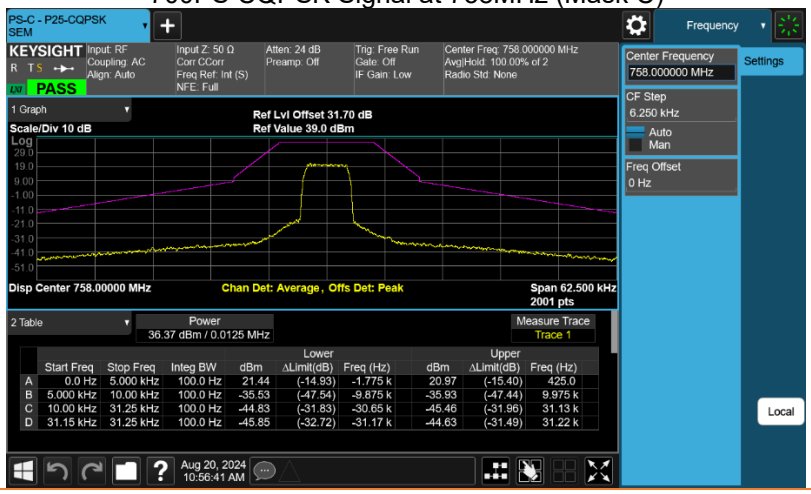
700PS CQPSK Signal at 775MHz (Mask C)



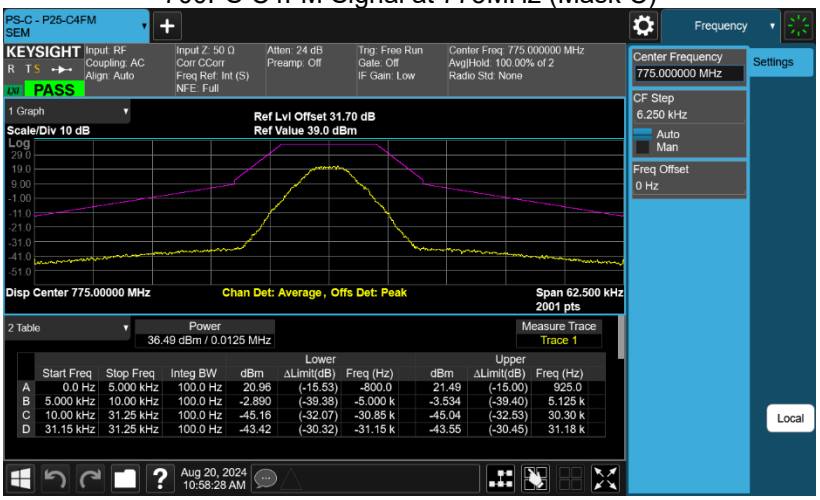
700PS CQPSK Signal at 766.5MHz (Mask C)



700PS CQPSK Signal at 758MHz (Mask C)

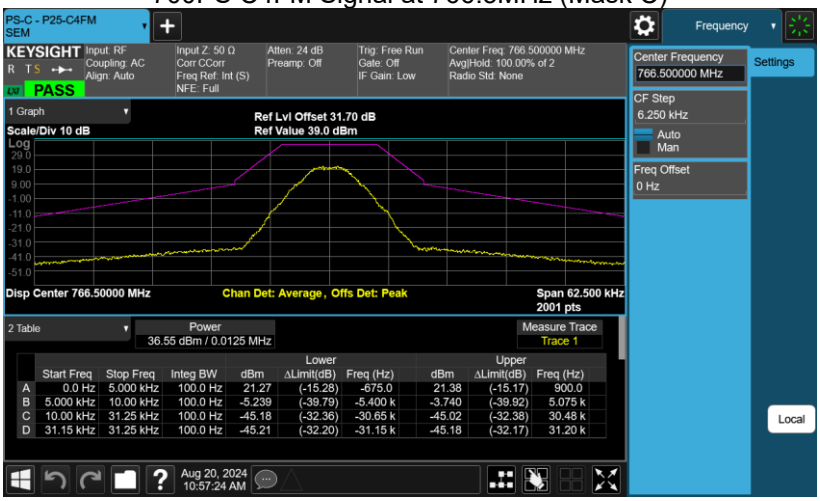


700PS C4FM Signal at 775MHz (Mask C)



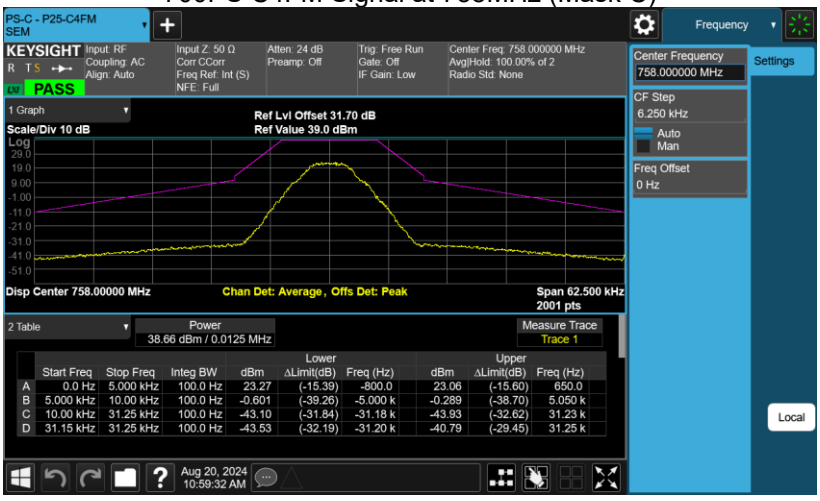
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	20.96	(-15.53)	-800.0	21.49	(-15.00)	925.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-2.890	(-39.38)	-5.000 k	-3.534	(-39.40)	5.125 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-45.16	(-32.07)	-30.85 k	-45.04	(-32.53)	30.30 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-43.42	(-30.32)	-31.15 k	-43.55	(-30.45)	31.18 k

700PS C4FM Signal at 766.5MHz (Mask C)



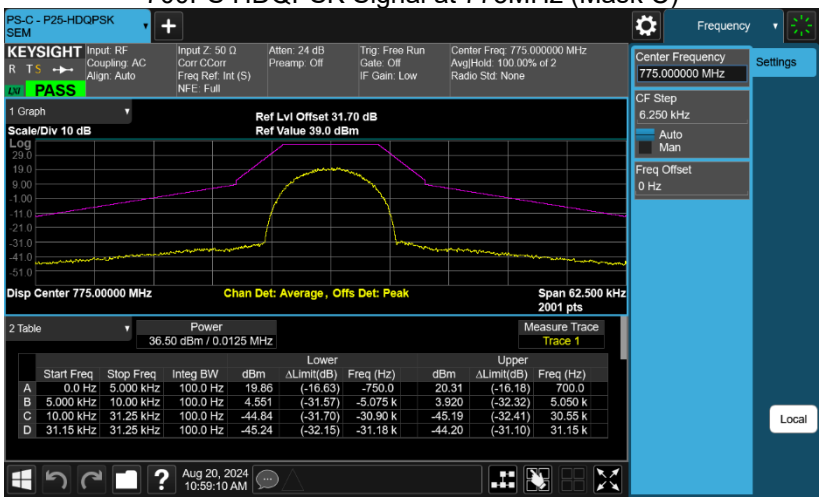
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	21.27	(-15.28)	-675.0	21.38	(-15.17)	900.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-5.239	(-39.79)	-5.400 k	-3.740	(-39.92)	5.075 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-45.18	(-32.36)	-30.65 k	-45.02	(-32.38)	30.48 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-45.21	(-32.20)	-31.15 k	-45.18	(-32.17)	31.20 k

700PS C4FM Signal at 758MHz (Mask C)



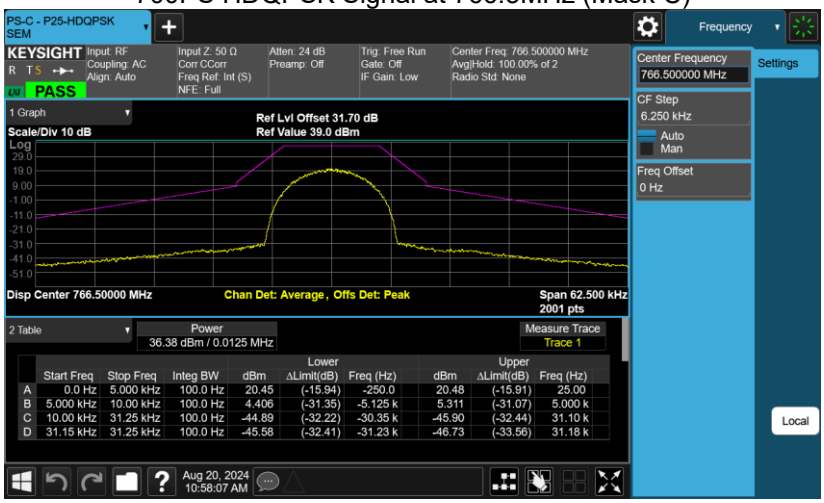
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	23.27	(-15.39)	-800.0	23.06	(-15.60)	650.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-0.601	(-39.26)	-5.000 k	-0.289	(-38.70)	5.050 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.10	(-31.84)	-31.18 k	-43.93	(-32.62)	31.23 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-43.53	(-32.19)	-31.20 k	-40.79	(-29.45)	31.25 k

700PS HDQPSK Signal at 775MHz (Mask C)



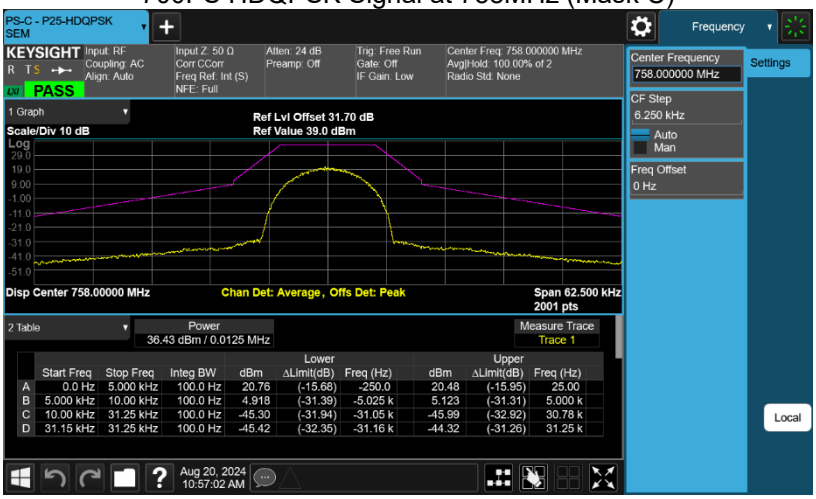
	Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	19.86	(-16.63)	-750.0	20.31	(-16.18)	700.0
B	5.000 kHz	10.00 kHz	100.0 Hz	4.551	(-31.57)	-5.075 k	3.920	(-32.32)	5.050 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-44.64	(-31.70)	-30.90 k	-45.19	(-32.41)	30.55 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-45.24	(-32.15)	-31.18 k	-44.20	(-31.10)	31.15 k

700PS HDQPSK Signal at 766.5MHz (Mask C)



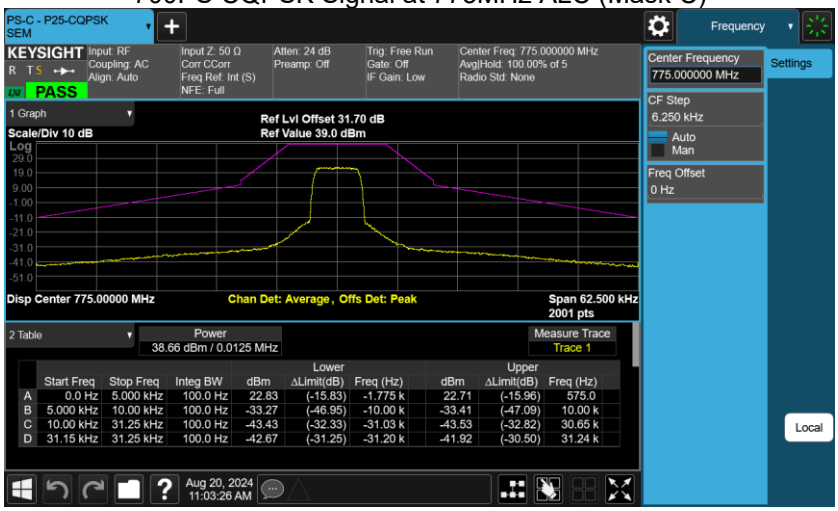
	Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	20.45	(-15.94)	-250.0	20.48	(-15.91)	25.00
B	5.000 kHz	10.00 kHz	100.0 Hz	4.406	(-31.35)	-5.125 k	5.311	(-31.07)	5.000 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-44.89	(-32.22)	-30.35 k	-45.90	(-32.44)	31.10 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-45.58	(-32.41)	-31.23 k	-46.73	(-33.56)	31.18 k

700PS HDQPSK Signal at 758MHz (Mask C)



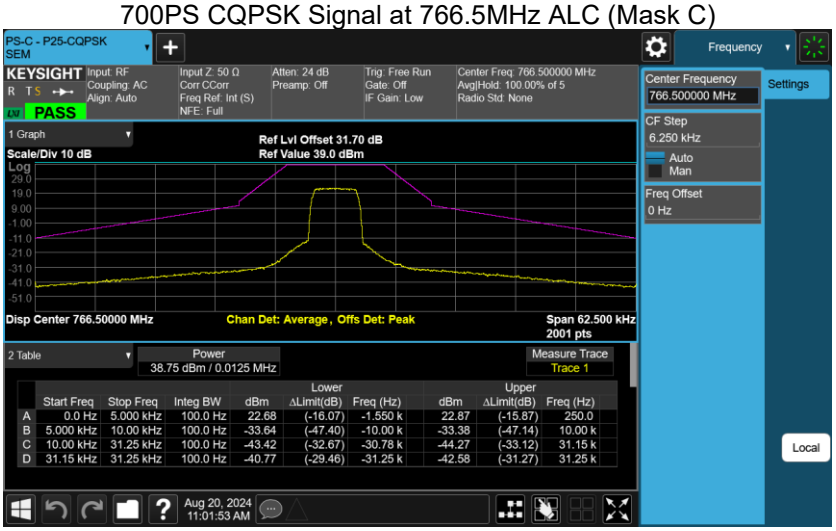
	Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	20.76	(-15.68)	-250.0	20.48	(-15.95)	25.00
B	5.000 kHz	10.00 kHz	100.0 Hz	4.918	(-31.39)	-5.025 k	5.123	(-31.31)	5.000 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-45.30	(-31.94)	-31.05 k	-45.99	(-32.92)	30.78 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-45.42	(-32.35)	-31.16 k	-44.32	(-31.26)	31.25 k

700PS CQPSK Signal at 775MHz ALC (Mask C)



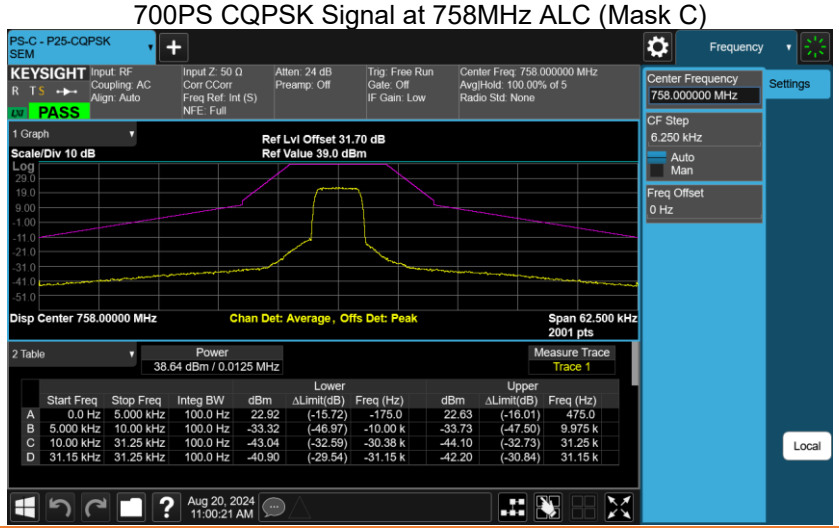
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	22.83	(-15.83)	-1.775 k	22.71	(-15.96)	575.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-33.27	(-46.95)	-10.00 k	-33.41	(-47.09)	10.00 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.43	(-32.33)	-31.03 k	-43.53	(-32.82)	30.65 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-42.67	(-31.25)	-31.20 k	-41.92	(-30.50)	31.24 k

700PS CQPSK Signal at 766.5MHz ALC (Mask C)



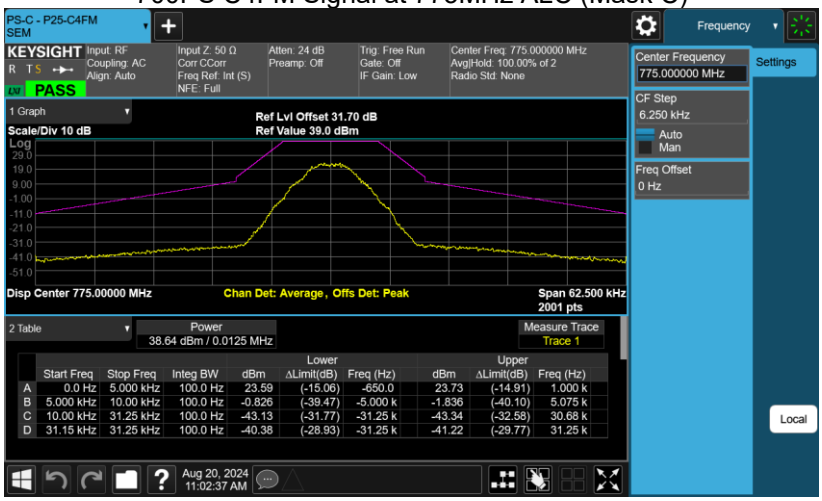
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	22.68	(-16.07)	-1.550 k	22.87	(-15.87)	250.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-33.64	(-47.40)	-10.00 k	-33.38	(-47.14)	10.00 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.42	(-32.67)	-30.78 k	-44.27	(-33.12)	31.15 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-40.77	(-29.46)	-31.25 k	-42.58	(-31.27)	31.25 k

700PS CQPSK Signal at 758MHz ALC (Mask C)



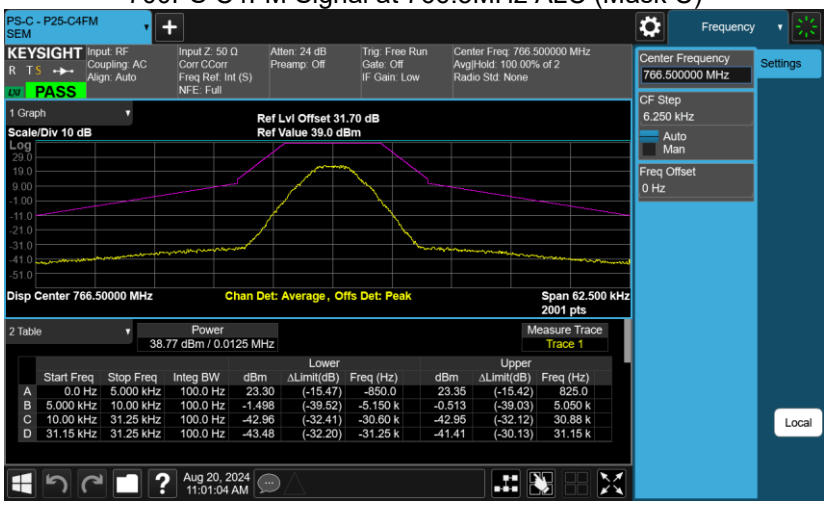
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	22.92	(-15.72)	-175.0	22.63	(-16.01)	475.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-33.32	(-46.97)	-10.00 k	-33.73	(-47.50)	9.975 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.04	(-32.59)	-30.38 k	-44.10	(-32.73)	31.25 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-40.90	(-29.54)	-31.15 k	-42.20	(-30.84)	31.15 k

700PS C4FM Signal at 775MHz ALC (Mask C)



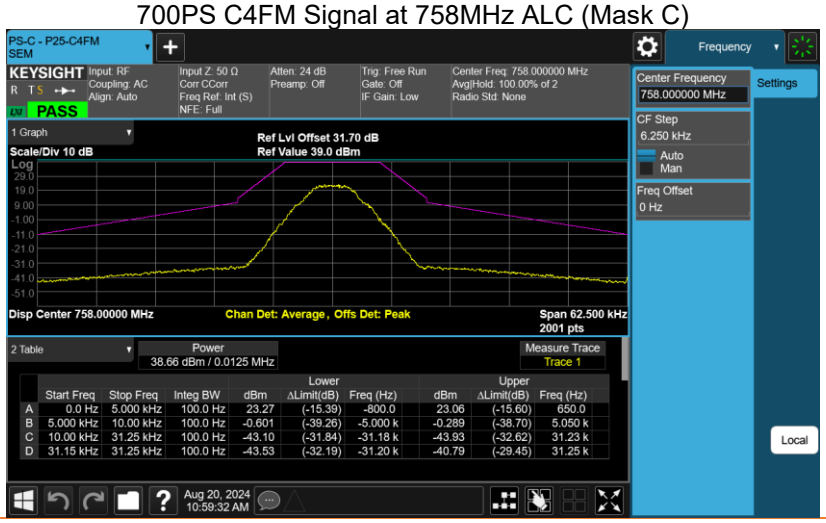
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	23.59	(-15.06)	-650.0	23.73	(-14.91)	1.000 k
B	5.000 kHz	10.00 kHz	100.0 Hz	-0.826	(-39.47)	-5.000 k	-1.836	(-40.10)	5.075 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.13	(-31.77)	-31.25 k	-43.34	(-32.58)	30.68 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-40.38	(-28.93)	-31.25 k	-41.22	(-29.77)	31.25 k

700PS C4FM Signal at 766.5MHz ALC (Mask C)



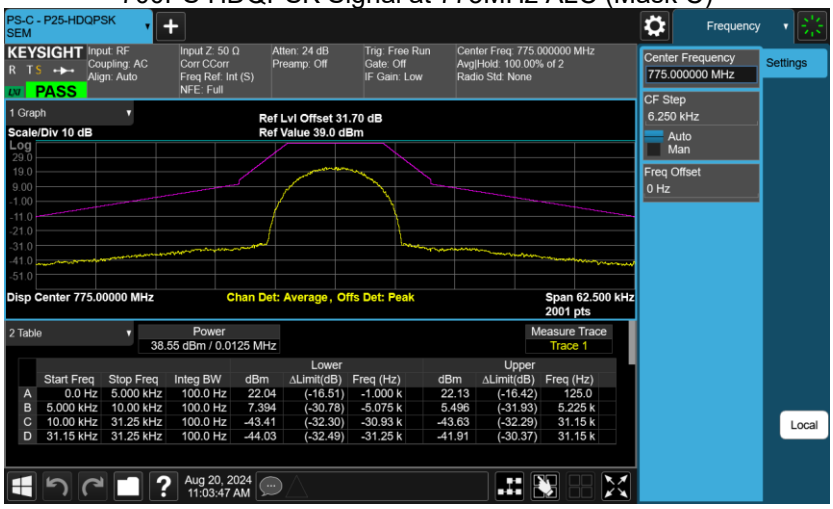
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	23.30	(-15.47)	-850.0	23.35	(-15.42)	825.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-1.498	(-39.52)	-5.150 k	-0.513	(-39.03)	5.050 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-42.96	(-32.41)	-30.60 k	-42.95	(-32.12)	30.88 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-43.48	(-32.20)	-31.25 k	-41.41	(-30.13)	31.15 k

700PS C4FM Signal at 758MHz ALC (Mask C)



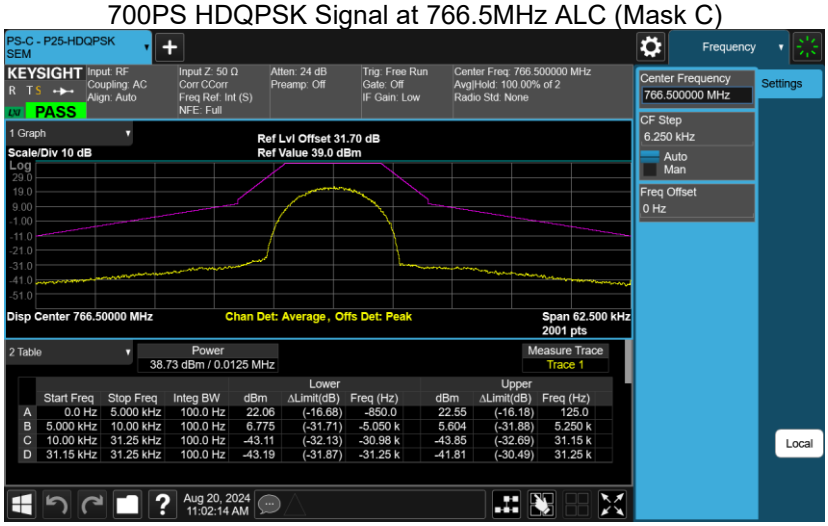
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	23.27	(-15.39)	-800.0	23.06	(-15.60)	650.0
B	5.000 kHz	10.00 kHz	100.0 Hz	-0.601	(-39.26)	-5.000 k	-0.289	(-38.70)	5.050 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.10	(-31.84)	-31.18 k	-43.93	(-32.62)	31.23 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-43.53	(-32.19)	-31.20 k	-40.79	(-29.45)	31.25 k

700PS HDQPSK Signal at 775MHz ALC (Mask C)



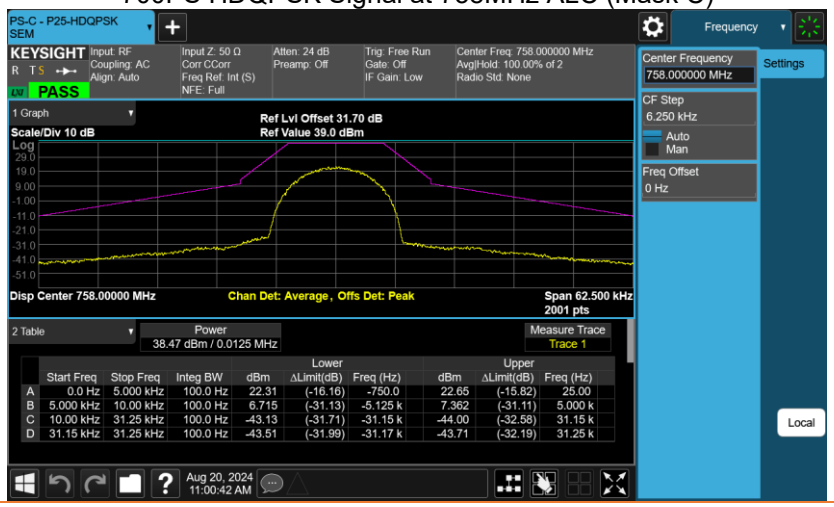
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	22.04	(-16.51)	-1.000 k	22.13	(-16.42)	125.0
B	5.000 kHz	10.00 kHz	100.0 Hz	7.394	(-30.78)	-5.075 k	5.496	(-31.93)	5.225 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.41	(-32.30)	-30.93 k	-43.63	(-32.29)	31.15 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-44.03	(-32.49)	-31.25 k	-41.91	(-30.37)	31.15 k

700PS HDQPSK Signal at 766.5MHz ALC (Mask C)



	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	22.06	(-16.68)	-850.0	22.55	(-16.18)	125.0
B	5.000 kHz	10.00 kHz	100.0 Hz	6.775	(-31.71)	-5.050 k	5.604	(-31.88)	5.250 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.11	(-32.13)	-30.98 k	-43.85	(-32.69)	31.15 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-43.19	(-31.87)	-31.25 k	-41.81	(-30.49)	31.25 k

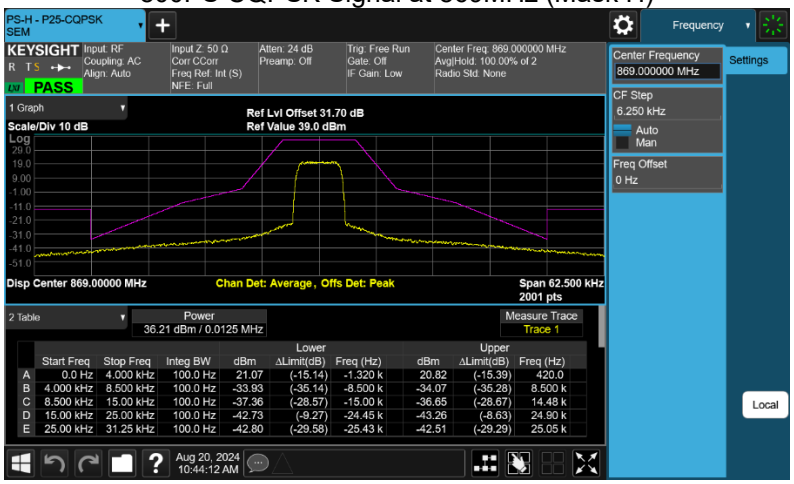
700PS HDQPSK Signal at 758MHz ALC (Mask C)



	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.000 kHz	100.0 Hz	22.31	(-16.16)	-750.0	22.65	(-15.82)	25.00
B	5.000 kHz	10.00 kHz	100.0 Hz	6.715	(-31.13)	-5.125 k	7.362	(-31.11)	5.000 k
C	10.00 kHz	31.25 kHz	100.0 Hz	-43.13	(-31.71)	-31.15 k	-44.00	(-32.58)	31.15 k
D	31.15 kHz	31.25 kHz	100.0 Hz	-43.51	(-31.99)	-31.17 k	-43.71	(-32.19)	31.25 k

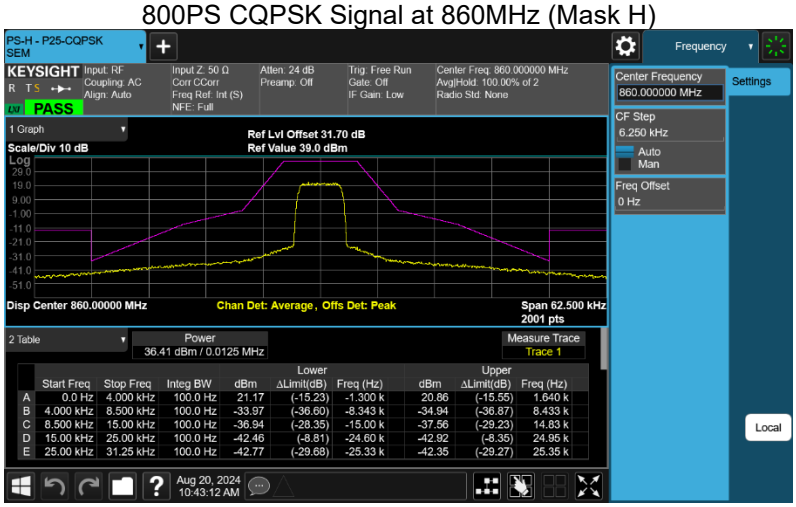
Results - Spectrum Emission Mask (800PS)

800PS CQPSK Signal at 869MHz (Mask H)



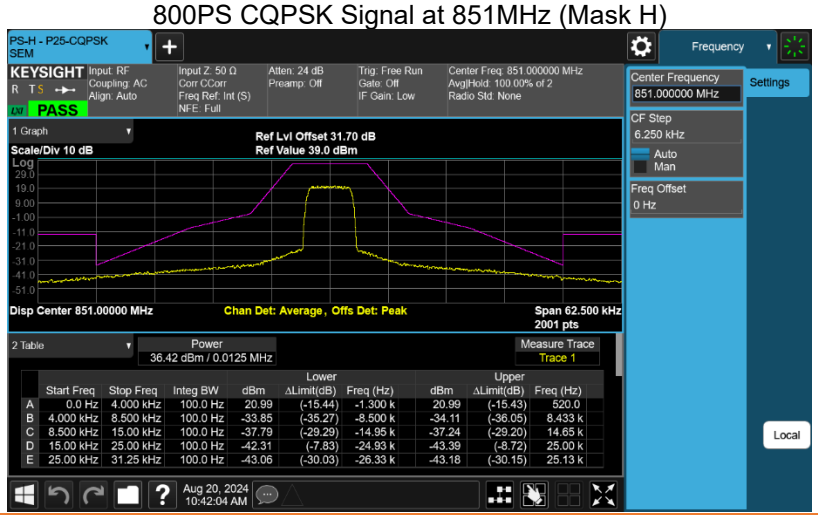
	Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
				Lower			Upper		
A	0.0 Hz	4.000 kHz	100.0 Hz	21.07	(-15.14)	-1.320 k	20.82	(-15.39)	420.0
B	4.000 kHz	8.500 kHz	100.0 Hz	-33.93	(-35.14)	-8.500 k	-34.07	(-35.28)	8.500 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-37.36	(-28.57)	-15.00 k	-36.65	(-28.67)	14.48 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-42.73	(-9.27)	-24.45 k	-43.26	(-8.63)	24.90 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-42.80	(-29.58)	-25.43 k	-42.51	(-29.29)	25.05 k

800PS CQPSK Signal at 860MHz (Mask H)



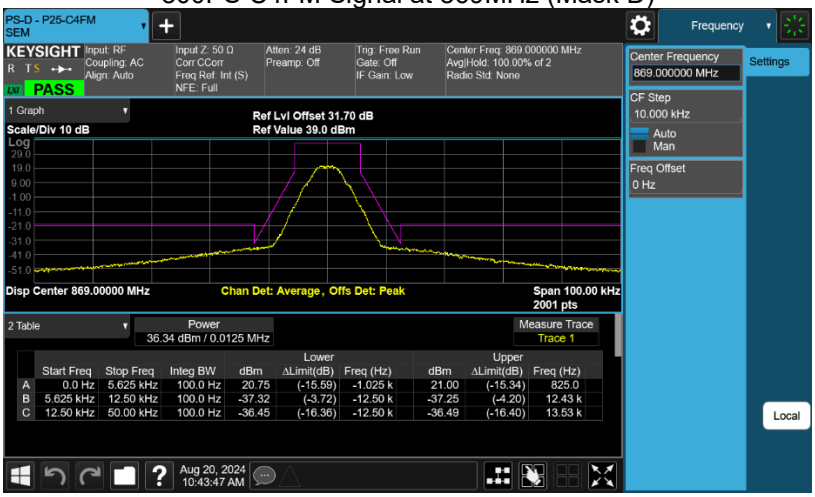
	Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
				Lower			Upper		
A	0.0 Hz	4.000 kHz	100.0 Hz	21.17	(-15.23)	-1.300 k	20.86	(-15.55)	1.640 k
B	4.000 kHz	8.500 kHz	100.0 Hz	-33.97	(-36.60)	-8.343 k	-34.94	(-36.87)	8.433 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-36.94	(-28.35)	-15.00 k	-37.56	(-29.23)	14.83 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-42.46	(-8.81)	-24.60 k	-42.92	(-8.35)	24.96 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-42.77	(-29.68)	-25.33 k	-42.35	(-29.27)	25.35 k

800PS CQPSK Signal at 851MHz (Mask H)



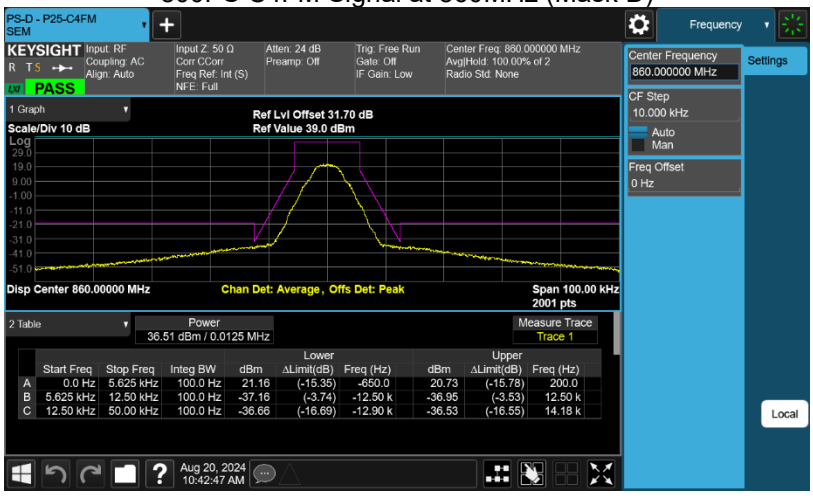
	Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
				Lower			Upper		
A	0.0 Hz	4.000 kHz	100.0 Hz	20.99	(-15.44)	-1.300 k	20.99	(-15.43)	520.0
B	4.000 kHz	8.500 kHz	100.0 Hz	-33.85	(-35.27)	-8.500 k	-34.11	(-36.05)	8.433 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-37.79	(-29.29)	-14.95 k	-37.24	(-29.20)	14.65 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-42.31	(-7.83)	-24.93 k	-43.39	(-8.72)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-43.06	(-30.03)	-26.33 k	-43.18	(-30.15)	25.13 k

800PS C4FM Signal at 869MHz (Mask D)



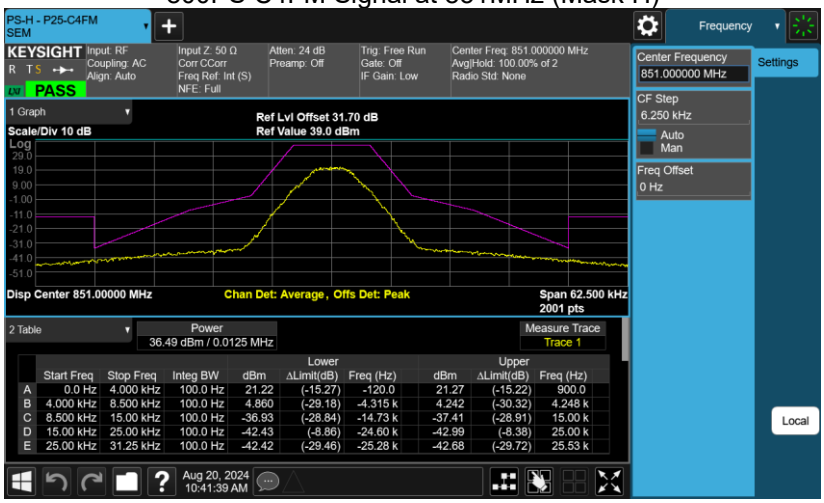
	Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	20.75	(-15.59)	-1.025 k	21.00	(-15.34)	825.0
B	5.625 kHz	12.50 kHz	100.0 Hz	-37.32	(-3.72)	-12.50 k	-37.25	(-4.20)	12.43 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-36.45	(-16.36)	-12.50 k	-36.49	(-16.40)	13.53 k

800PS C4FM Signal at 860MHz (Mask D)



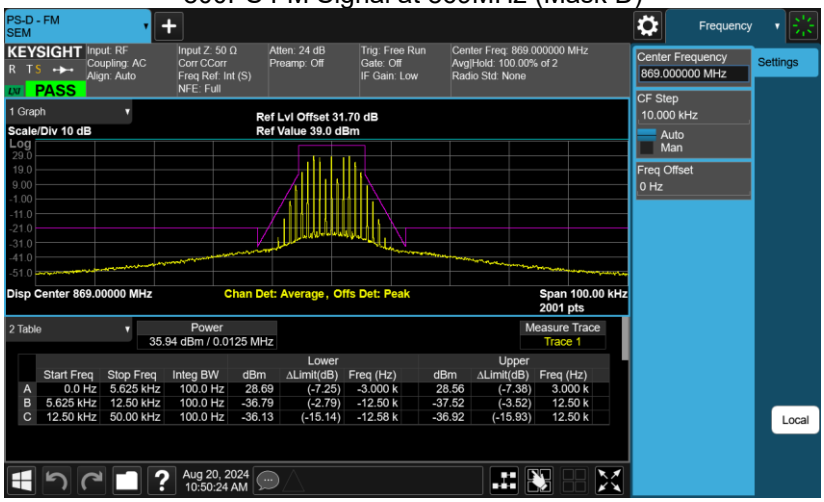
	Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	21.16	(-15.35)	-650.0	20.73	(-15.78)	200.0
B	5.625 kHz	12.50 kHz	100.0 Hz	-37.16	(-3.74)	-12.50 k	-36.95	(-3.53)	12.50 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-36.66	(-16.69)	-12.90 k	-36.53	(-16.55)	14.18 k

800PS C4FM Signal at 851MHz (Mask H)



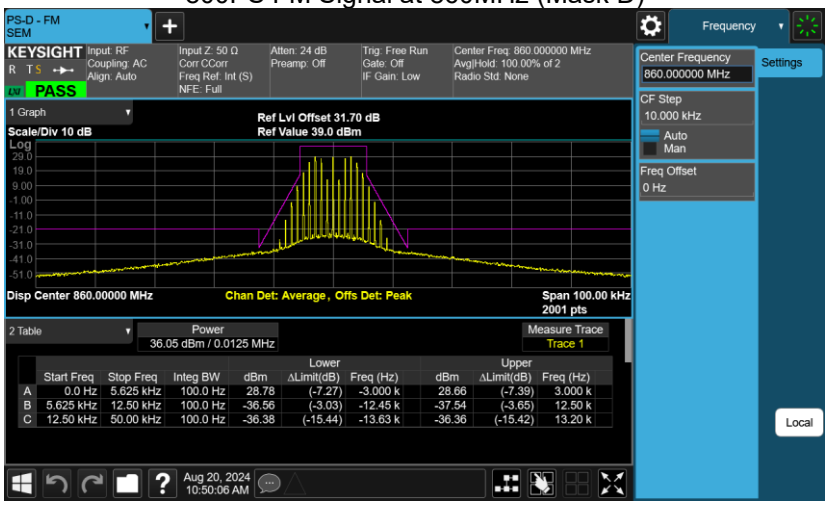
	Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	21.22	(-15.27)	-120.0	21.27	(-15.22)	900.0
B	4.000 kHz	8.500 kHz	100.0 Hz	4.860	(-29.18)	-4.315 k	4.242	(-30.32)	4.248 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-36.93	(-28.84)	-14.73 k	-37.41	(-28.91)	15.00 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-42.43	(-8.86)	-24.60 k	-42.99	(-8.38)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-42.42	(-29.46)	-25.28 k	-42.68	(-29.72)	25.53 k

800PS FM Signal at 869MHz (Mask D)



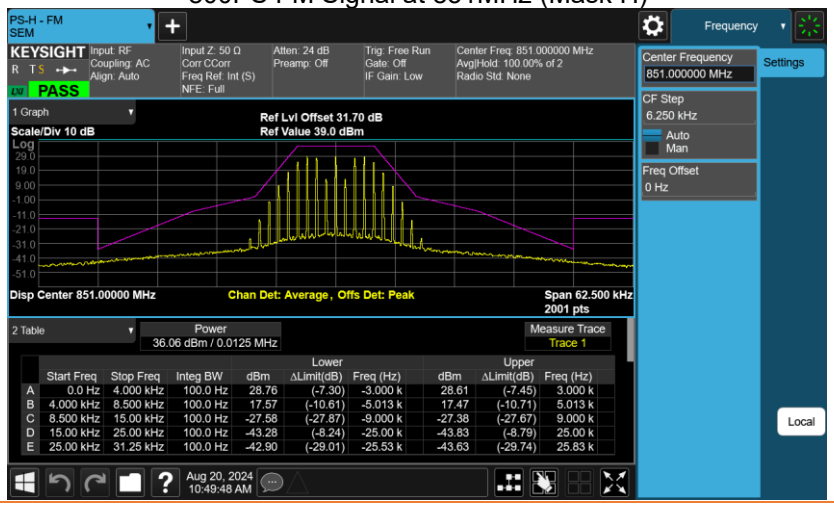
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	28.69	(-7.25)	-3.000 k	28.56	(-7.38)	3.000 k
B	5.625 kHz	12.50 kHz	100.0 Hz	-36.79	(-2.79)	-12.50 k	-37.52	(-3.52)	12.50 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-36.13	(-15.14)	-12.58 k	-36.92	(-15.93)	12.50 k

800PS FM Signal at 860MHz (Mask D)



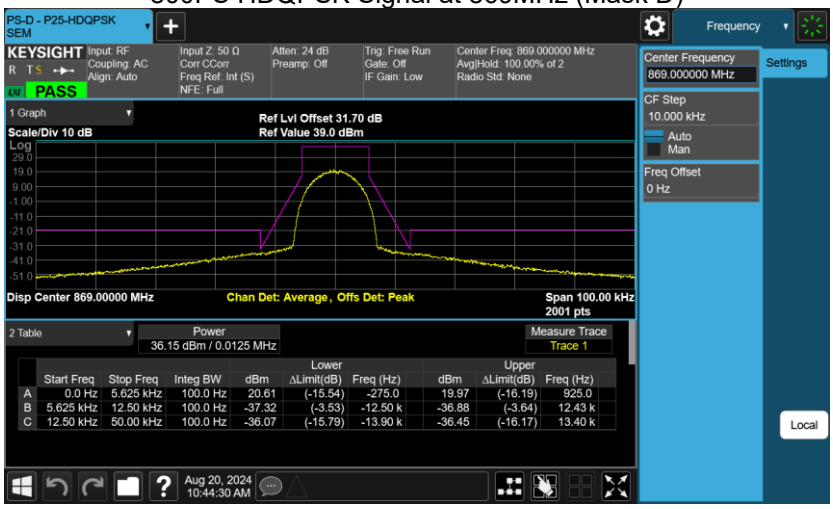
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	28.78	(-7.27)	-3.000 k	28.66	(-7.39)	3.000 k
B	5.625 kHz	12.50 kHz	100.0 Hz	-36.56	(-3.03)	-12.45 k	-37.54	(-3.65)	12.50 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-36.38	(-15.44)	-13.63 k	-36.36	(-15.42)	13.20 k

800PS FM Signal at 851MHz (Mask H)



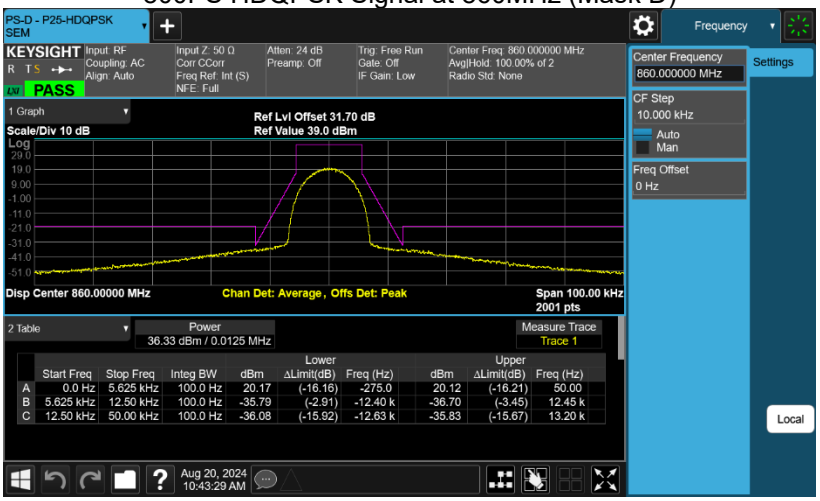
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	28.76	(-7.30)	-3.000 k	28.61	(-7.45)	3.000 k
B	4.000 kHz	8.500 kHz	100.0 Hz	17.57	(-10.61)	-5.013 k	17.47	(-10.71)	5.013 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-27.58	(-27.87)	-9.000 k	-27.38	(-27.67)	9.000 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-43.28	(-8.24)	-25.00 k	-43.83	(-8.79)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-42.90	(-29.01)	-25.53 k	-43.63	(-29.74)	25.83 k

800PS HDQPSK Signal at 869MHz (Mask D)



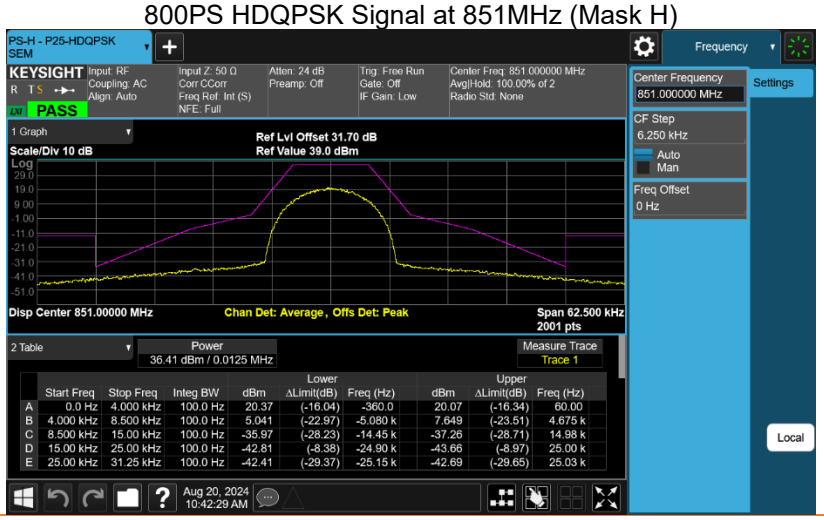
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	20.61	(-15.54)	-275.0	19.97	(-16.19)	925.0
B	5.625 kHz	12.50 kHz	100.0 Hz	-37.32	(-3.53)	-12.50 k	-36.88	(-3.64)	12.43 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-36.07	(-15.79)	-13.90 k	-36.45	(-16.17)	13.40 k

800PS HDQPSK Signal at 860MHz (Mask D)



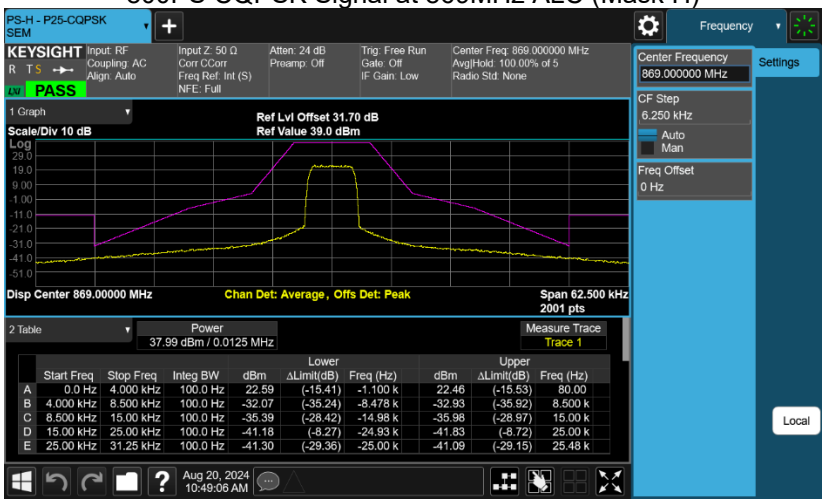
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	20.17	(-16.16)	-275.0	20.12	(-16.21)	50.00
B	5.625 kHz	12.50 kHz	100.0 Hz	-35.79	(-2.91)	-12.40 k	-36.70	(-3.45)	12.45 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-36.08	(-15.92)	-12.63 k	-35.83	(-15.67)	13.20 k

800PS HDQPSK Signal at 851MHz (Mask H)



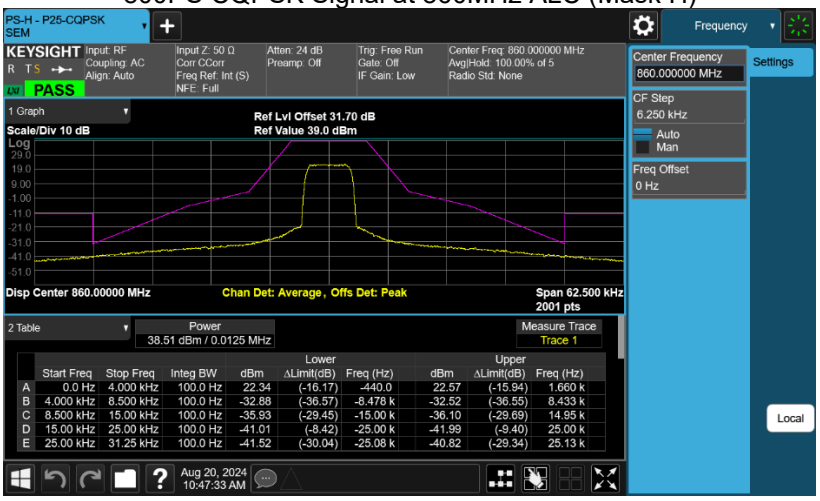
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	20.37	(-16.04)	-360.0	20.07	(-16.34)	60.00
B	4.000 kHz	8.500 kHz	100.0 Hz	5.041	(-22.97)	-5.080 k	7.649	(-23.51)	4.675 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-35.97	(-28.23)	-14.45 k	-37.26	(-28.71)	14.98 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-42.81	(-8.38)	-24.90 k	-43.66	(-8.97)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-42.41	(-29.37)	-25.15 k	-42.69	(-29.65)	25.03 k

800PS CQPSK Signal at 869MHz ALC (Mask H)



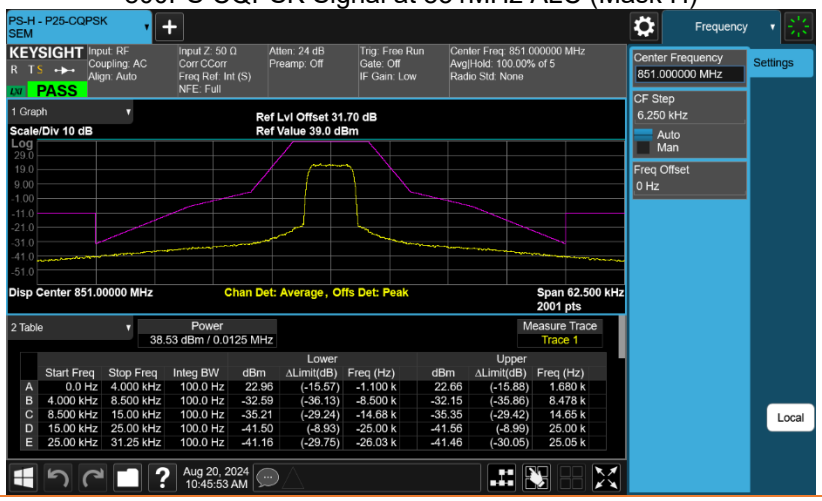
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	22.59	(-15.41)	-1.100 k	22.46	(-15.53)	80.00
B	4.000 kHz	8.500 kHz	100.0 Hz	-32.07	(-35.24)	-8.478 k	-32.93	(-35.92)	8.500 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-35.39	(-28.42)	-14.98 k	-35.98	(-28.97)	15.00 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-41.18	(-8.27)	-24.93 k	-41.83	(-8.72)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-41.30	(-29.36)	-25.00 k	-41.09	(-29.15)	25.48 k

800PS CQPSK Signal at 860MHz ALC (Mask H)



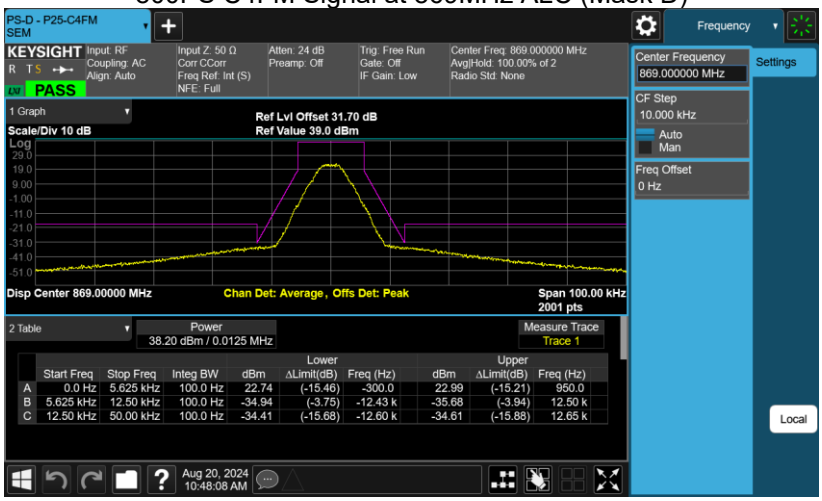
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	22.34	(-16.17)	-440.0	22.57	(-15.94)	1.660 k
B	4.000 kHz	8.500 kHz	100.0 Hz	-32.88	(-36.57)	-8.478 k	-32.52	(-36.55)	8.433 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-35.93	(-29.45)	-15.00 k	-36.10	(-29.69)	14.95 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-41.01	(-8.42)	-25.00 k	-41.99	(-9.40)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-41.52	(-30.04)	-25.08 k	-40.82	(-29.34)	25.13 k

800PS CQPSK Signal at 851MHz ALC (Mask H)



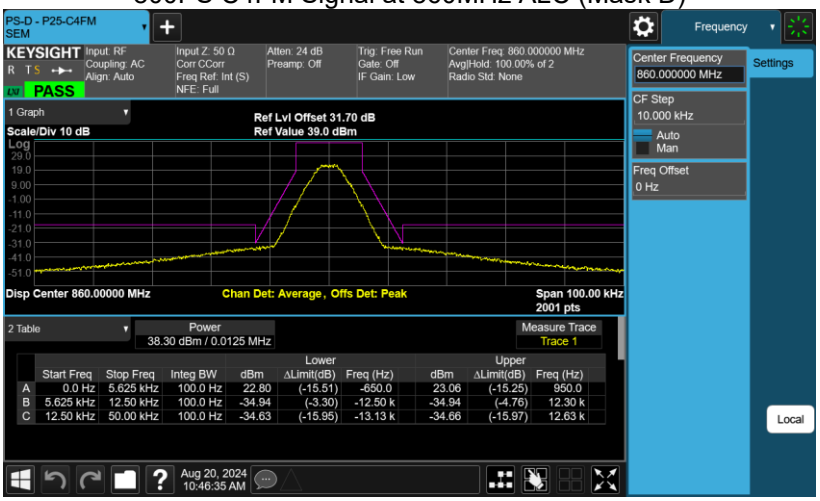
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	22.96	(-15.57)	-1.100 k	22.66	(-15.88)	1.680 k
B	4.000 kHz	8.500 kHz	100.0 Hz	-32.59	(-36.13)	-8.500 k	-32.15	(-35.86)	8.478 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-35.21	(-29.24)	-14.68 k	-35.35	(-29.42)	14.65 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-41.50	(-8.93)	-25.00 k	-41.56	(-8.99)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-41.16	(-29.75)	-26.03 k	-41.46	(-30.05)	25.05 k

800PS C4FM Signal at 869MHz ALC (Mask D)



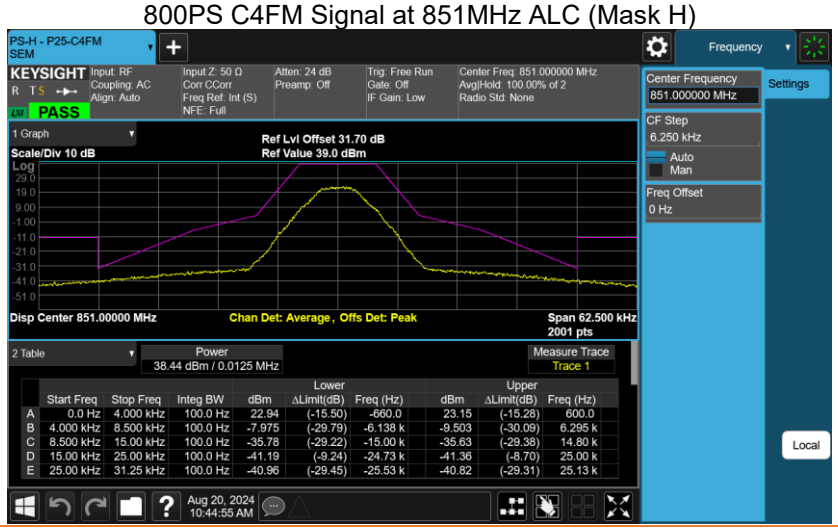
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	22.74	(-15.46)	-300.0	22.99	(-15.21)	950.0
B	5.625 kHz	12.50 kHz	100.0 Hz	-34.94	(-3.75)	-12.43 k	-35.68	(-3.94)	12.50 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-34.41	(-15.68)	-12.60 k	-34.61	(-15.88)	12.65 k

800PS C4FM Signal at 860MHz ALC (Mask D)



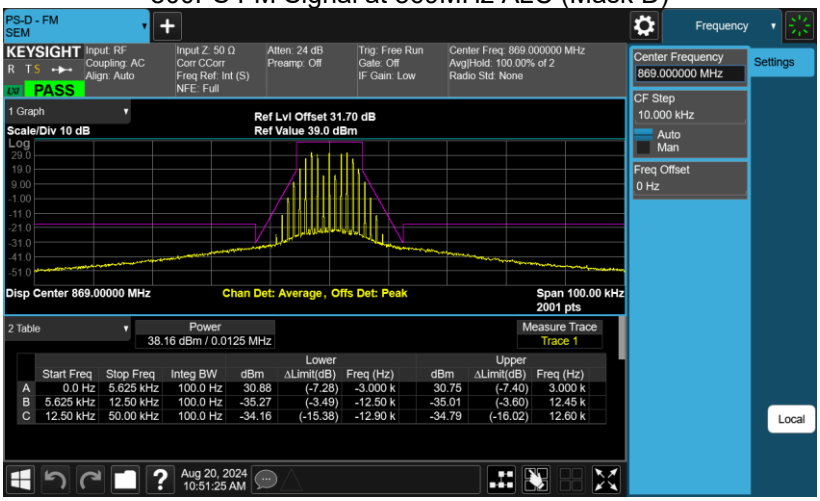
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	22.80	(-15.51)	-650.0	23.06	(-15.25)	950.0
B	5.625 kHz	12.50 kHz	100.0 Hz	-34.94	(-3.30)	-12.50 k	-34.94	(-4.76)	12.30 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-34.63	(-15.95)	-13.13 k	-34.66	(-15.97)	12.63 k

800PS C4FM Signal at 851MHz ALC (Mask H)



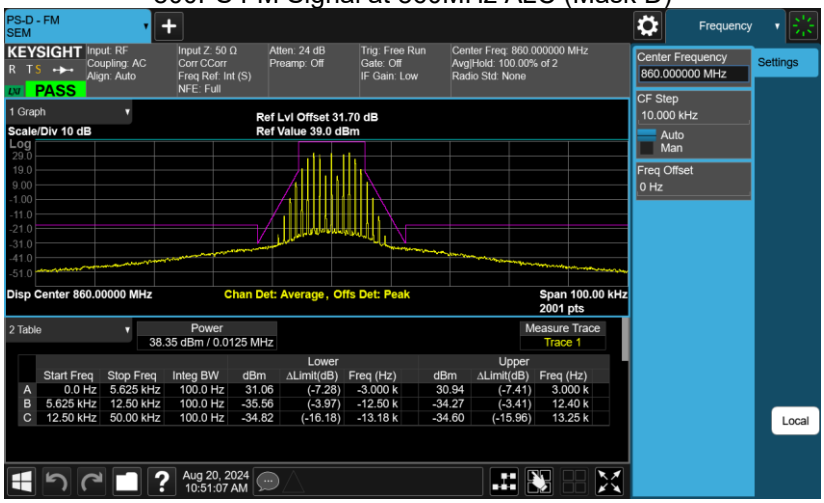
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	22.94	(-15.50)	-660.0	23.15	(-15.28)	600.0
B	4.000 kHz	8.500 kHz	100.0 Hz	-7.975	(-29.79)	-6.138 k	-9.503	(-30.09)	6.295 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-35.78	(-29.22)	-15.00 k	-35.63	(-29.38)	14.80 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-41.19	(-9.24)	-24.73 k	-41.36	(-8.70)	25.00 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-40.96	(-29.45)	-25.53 k	-40.82	(-29.31)	25.13 k

800PS FM Signal at 869MHz ALC (Mask D)



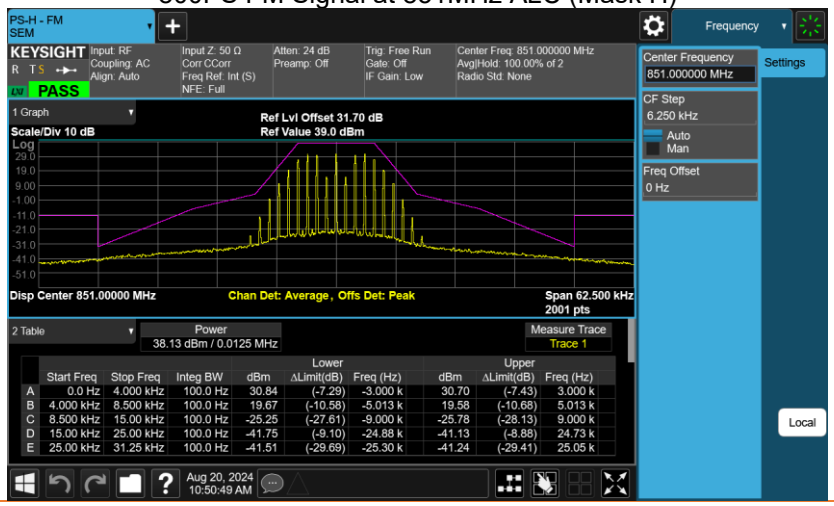
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	30.88	(-7.28)	-3.000 k	30.75	(-7.40)	3.000 k
B	5.625 kHz	12.50 kHz	100.0 Hz	-35.27	(-3.49)	-12.50 k	-35.01	(-3.60)	12.45 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-34.16	(-15.38)	-12.90 k	-34.79	(-16.02)	12.60 k

800PS FM Signal at 860MHz ALC (Mask D)



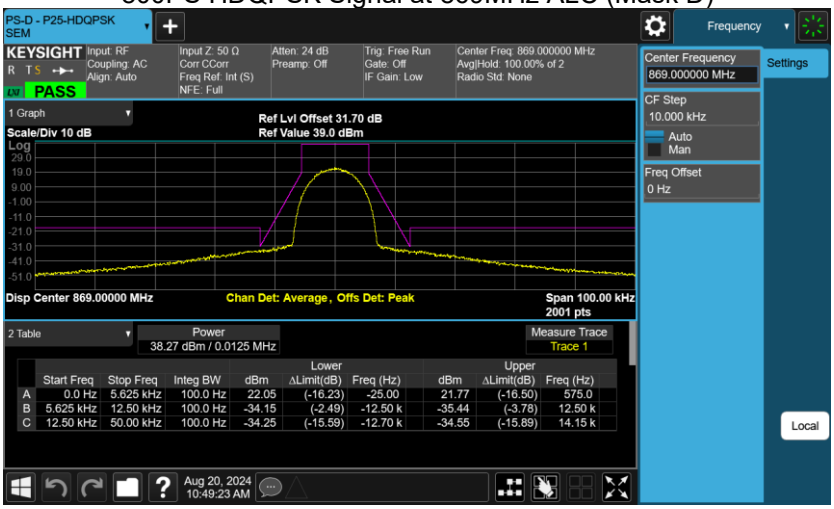
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	31.06	(-7.28)	-3.000 k	30.94	(-7.41)	3.000 k
B	5.625 kHz	12.50 kHz	100.0 Hz	-35.56	(-3.97)	-12.50 k	-34.27	(-3.41)	12.40 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-34.82	(-16.18)	-13.18 k	-34.60	(-15.96)	13.25 k

800PS FM Signal at 851MHz ALC (Mask H)



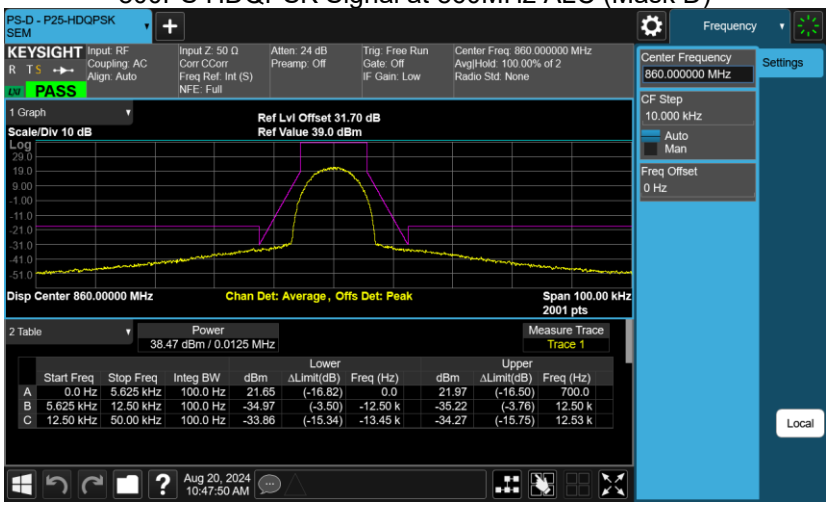
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	30.84	(-7.29)	-3.000 k	30.70	(-7.43)	3.000 k
B	4.000 kHz	8.500 kHz	100.0 Hz	19.67	(-10.58)	-5.013 k	19.58	(-10.68)	5.013 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-25.25	(-27.61)	-9.000 k	-25.78	(-28.13)	9.000 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-41.75	(-9.10)	-24.88 k	-41.13	(-8.88)	24.73 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-41.51	(-29.69)	-25.30 k	-41.24	(-29.41)	25.05 k

800PS HDQPSK Signal at 869MHz ALC (Mask D)



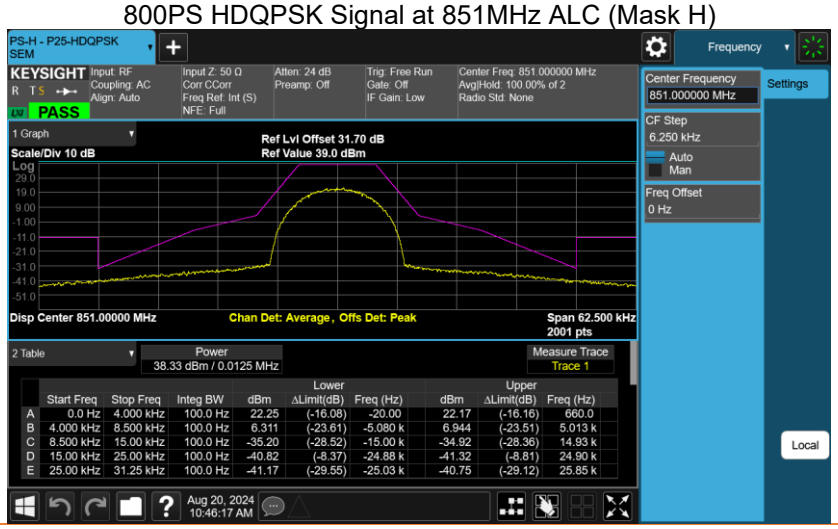
	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	22.05	(-16.23)	-25.00	21.77	(-16.50)	575.0
B	5.625 kHz	12.50 kHz	100.0 Hz	-34.15	(-2.49)	-12.50 k	-35.44	(-3.78)	12.50 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-34.25	(-15.59)	-12.70 k	-34.55	(-15.89)	14.15 k

800PS HDQPSK Signal at 860MHz ALC (Mask D)



	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	5.625 kHz	100.0 Hz	21.65	(-16.82)	0.0	21.97	(-16.50)	700.0
B	5.625 kHz	12.50 kHz	100.0 Hz	-34.97	(-3.50)	-12.50 k	-35.22	(-3.76)	12.50 k
C	12.50 kHz	50.00 kHz	100.0 Hz	-33.86	(-15.34)	-13.45 k	-34.27	(-15.75)	12.53 k

800PS HDQPSK Signal at 851MHz ALC (Mask H)



	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
A	0.0 Hz	4.000 kHz	100.0 Hz	22.25	(-16.08)	-20.00	22.17	(-16.16)	660.0
B	4.000 kHz	8.500 kHz	100.0 Hz	6.311	(-23.61)	-5.080 k	6.944	(-23.51)	5.013 k
C	8.500 kHz	15.00 kHz	100.0 Hz	-35.20	(-28.52)	-15.00 k	-34.92	(-28.36)	14.93 k
D	15.00 kHz	25.00 kHz	100.0 Hz	-40.82	(-8.37)	-24.88 k	-41.32	(-8.81)	24.90 k
E	25.00 kHz	31.25 kHz	100.0 Hz	-41.17	(-29.55)	-25.03 k	-40.75	(-29.12)	25.85 k

3.5 Input/Output Power and Amplifier/Booster Gain

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 7.2.3.4 KDB 935210 D05, v01r04, Clause 3.5, 4.5	Relative Humidity (%)	38.6
Test Location	Bench top, Richmond Lab	Barometric Pressure (kPa)	101.8
Test Engineer	Zara Vali	Date	August 20, 2024
EUT Voltage	☒ +48VDC	☐ 120VAC @ 60Hz	

Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B-506	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B-526	MY62153079	Aug 1, 2023	Aug 1, 2025

Span:	☒ Max Gain Frequency ± 1500kHz
Detector:	☒ Peak
RBW/VBW:	☒100k Hz/ 300 kHz
Type of Facility:	☒ Tabletop
Distance:	☒ Direct

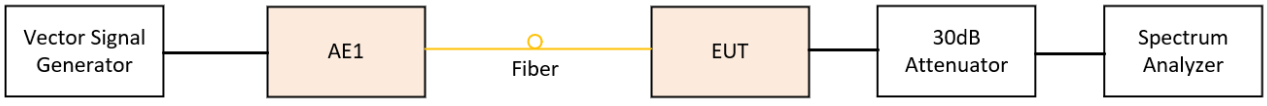
Maximum booster gain is 49.57 dB.

Compliant ☒ Non-Compliant ☐ Not Applicable ☐

Test setup

The procedure used was ANSI C63.26-2015:. 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 with configuration Mode #1.**



Results

Test Band	Frequency (MHz)	Input Power (dBm)	Output Power (dBm)	Gain (dB)
415 PS	415.55	-11.0	36.99	47.99
465 PS	465	-12.6	36.97	49.57
700 PS	766.5	-12.2	37.06	49.26
800 PS	860	-10.8	36.99	47.79

3.6 Out-Of-Band / Out-Of-Block Intermodulation and Spurious Emissions

Governing Doc	RSS-131, Issue 4, 2022 S10.5 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 7.2.3.6 Section 7.2.3.7 KDB 935210 D05, v01r04, Clause 3.6, 4.7	Relative Humidity (%)	38.6
Test Location	Bench top, Richmond Lab	Barometric Pressure (kPa)	101.8
Test Engineer	Zara Vali	Date	August 20, 2024
EUT Voltage	☒ +48VDC	☐ 120VAC @ 60Hz	

Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B-506	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B-526	MY62153079	Aug 1, 2023	Aug 1, 2025

Frequency Range:	☒ Max Gain Frequency ± 50kHz
Detector:	☒ Average
RBW/VBW:	☒100/910Hz
Type of Facility:	☒ Tabletop
Distance:	☒ Direct