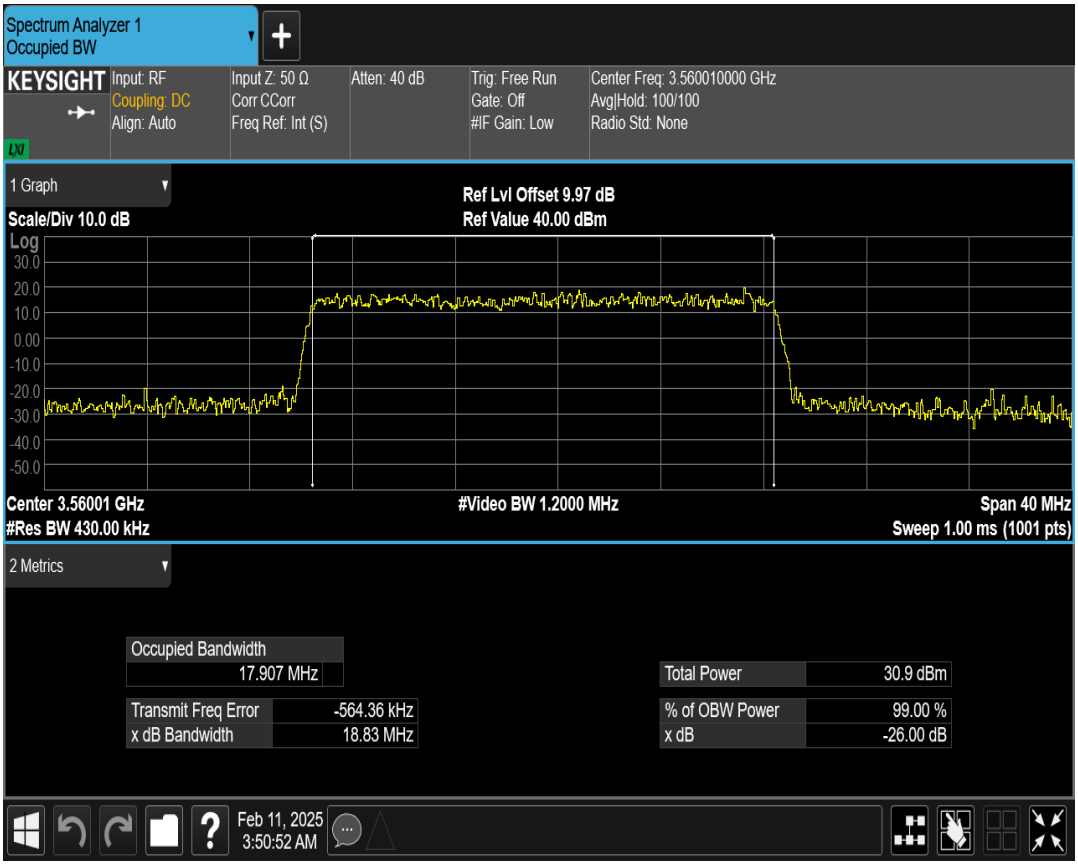
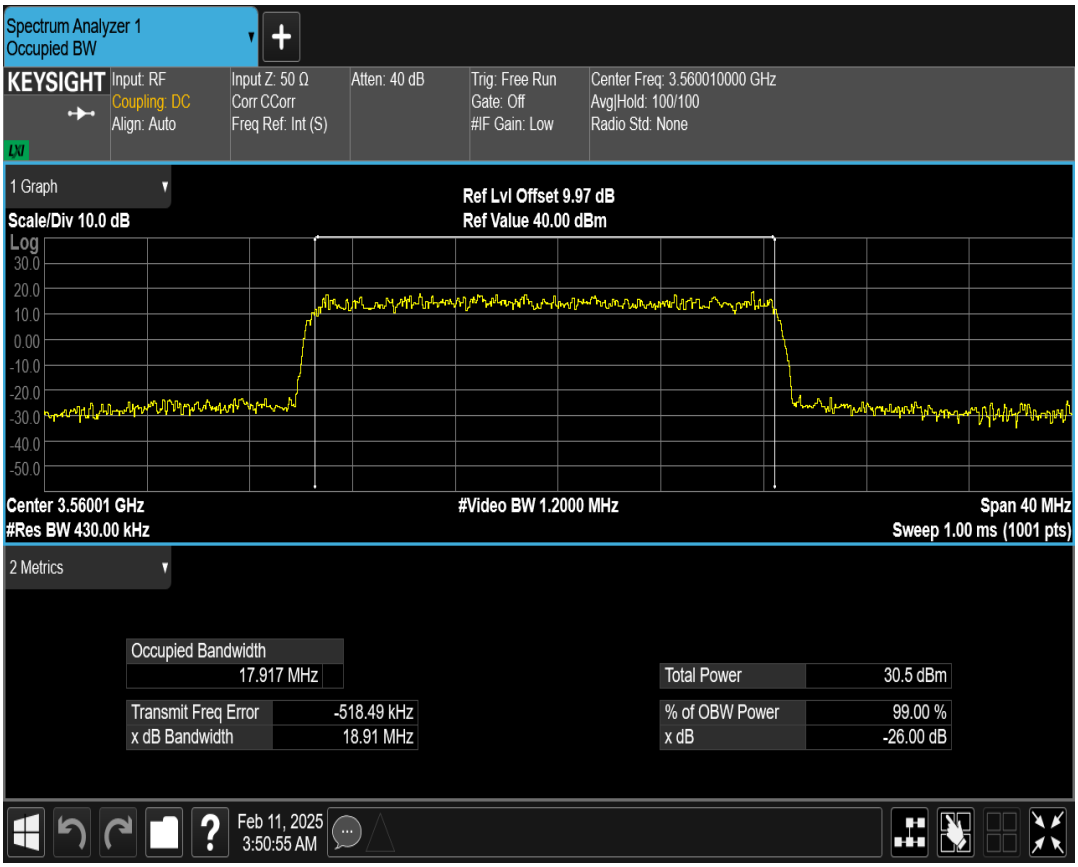
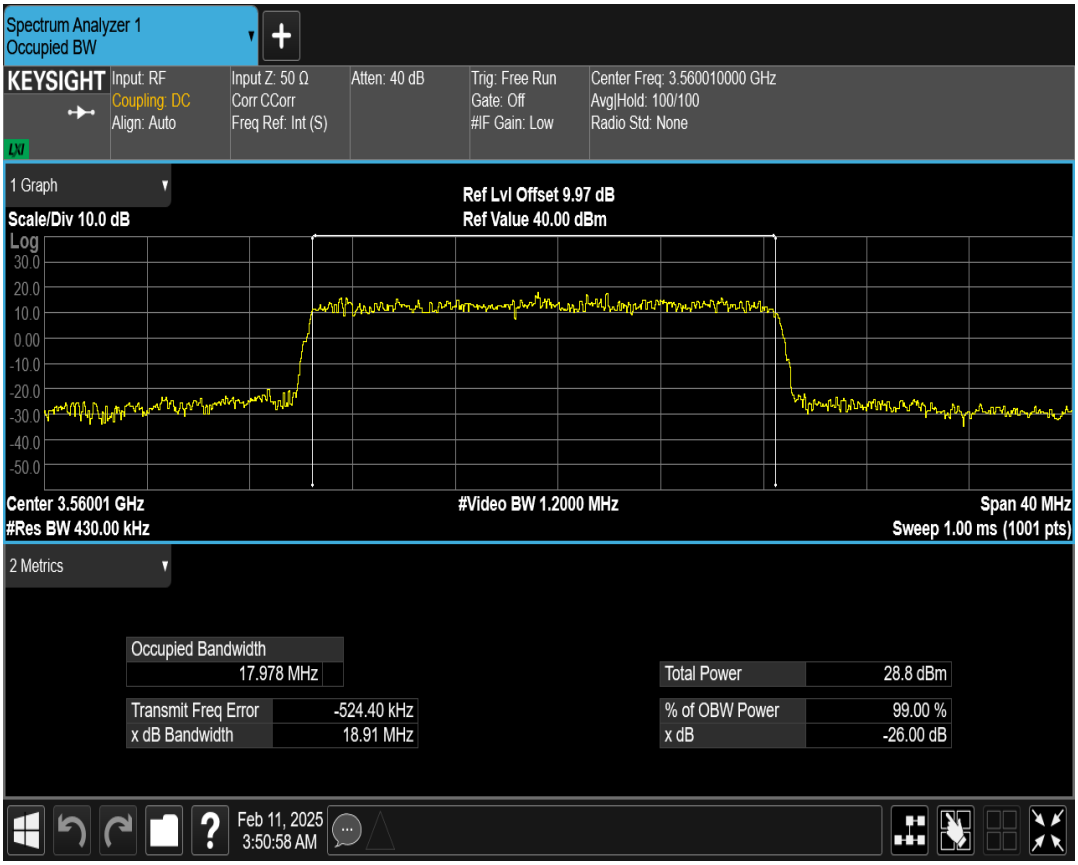
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=20MHz Channel=637334 RB=100@0



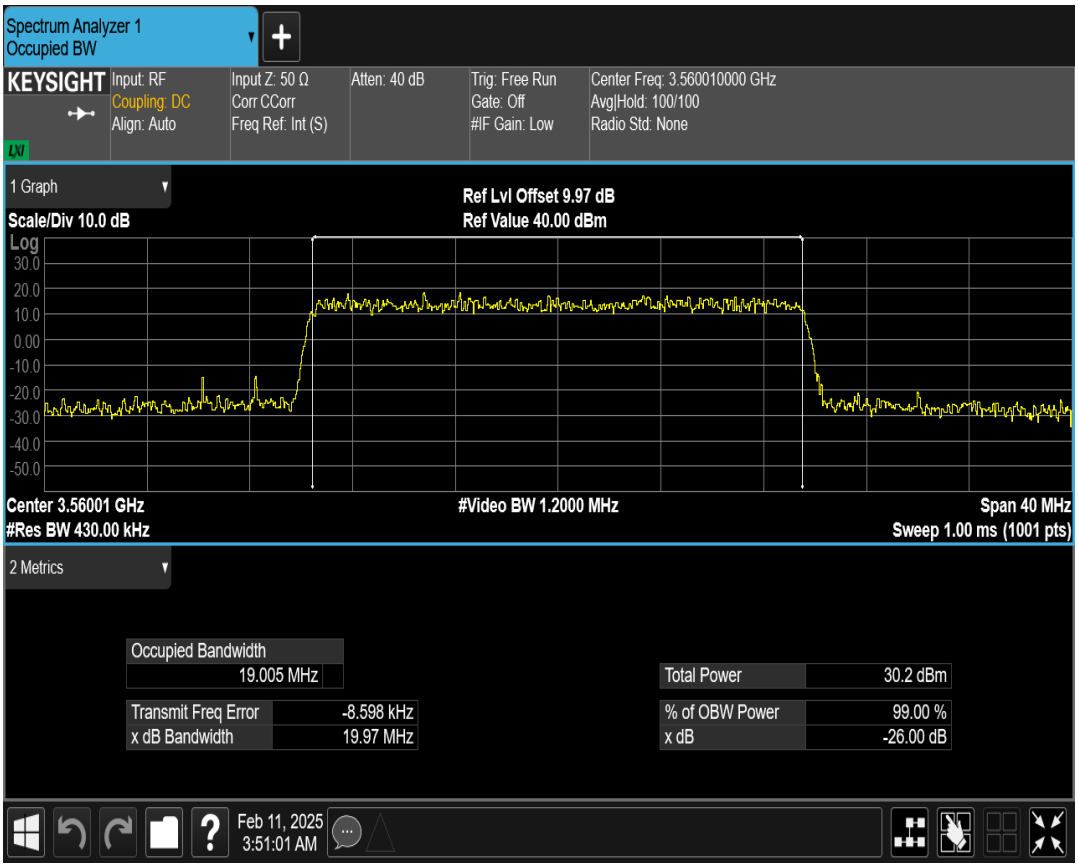
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=20MHz Channel=637334 RB=100@0



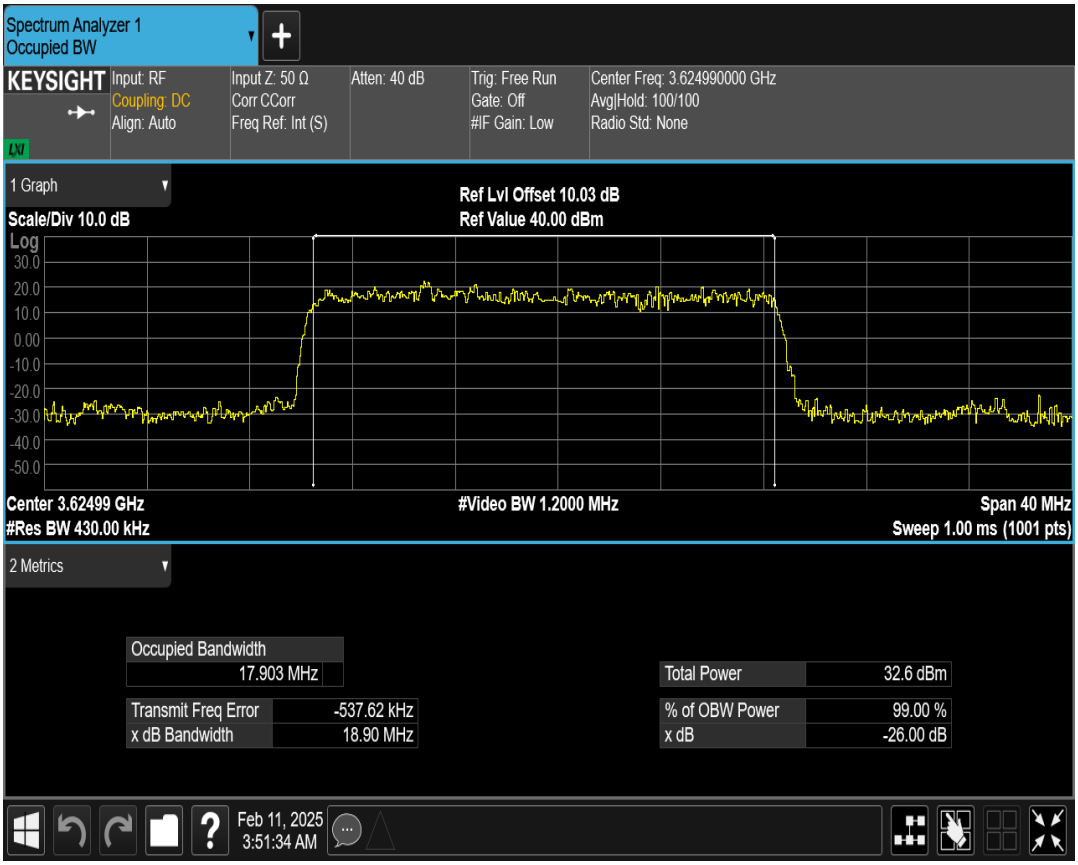
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=20MHz Channel=637334 RB=100@0



n77(3550-3700) SCS=15kHz CP_QPSK BW=20MHz Channel=637334 RB=106@0



n77(3550-3700) SCS=15kHz DFT_BPSK BW=20MHz Channel=641666 RB=100@0



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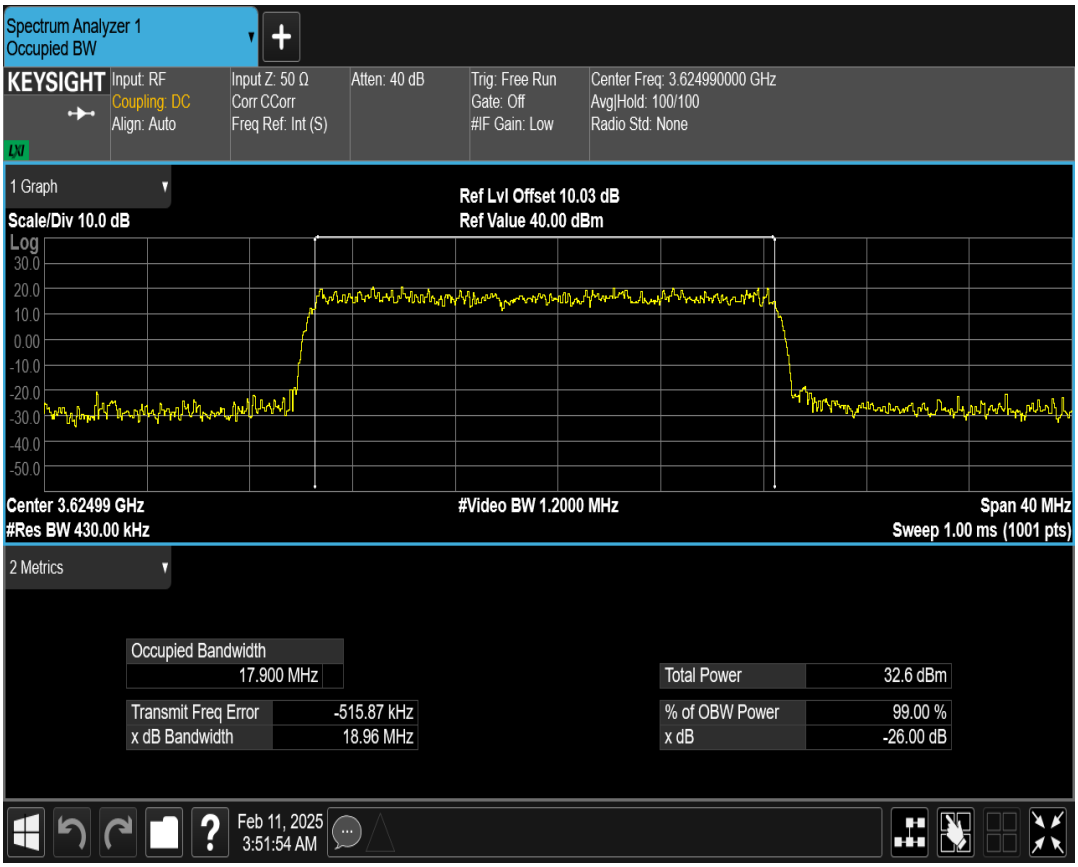

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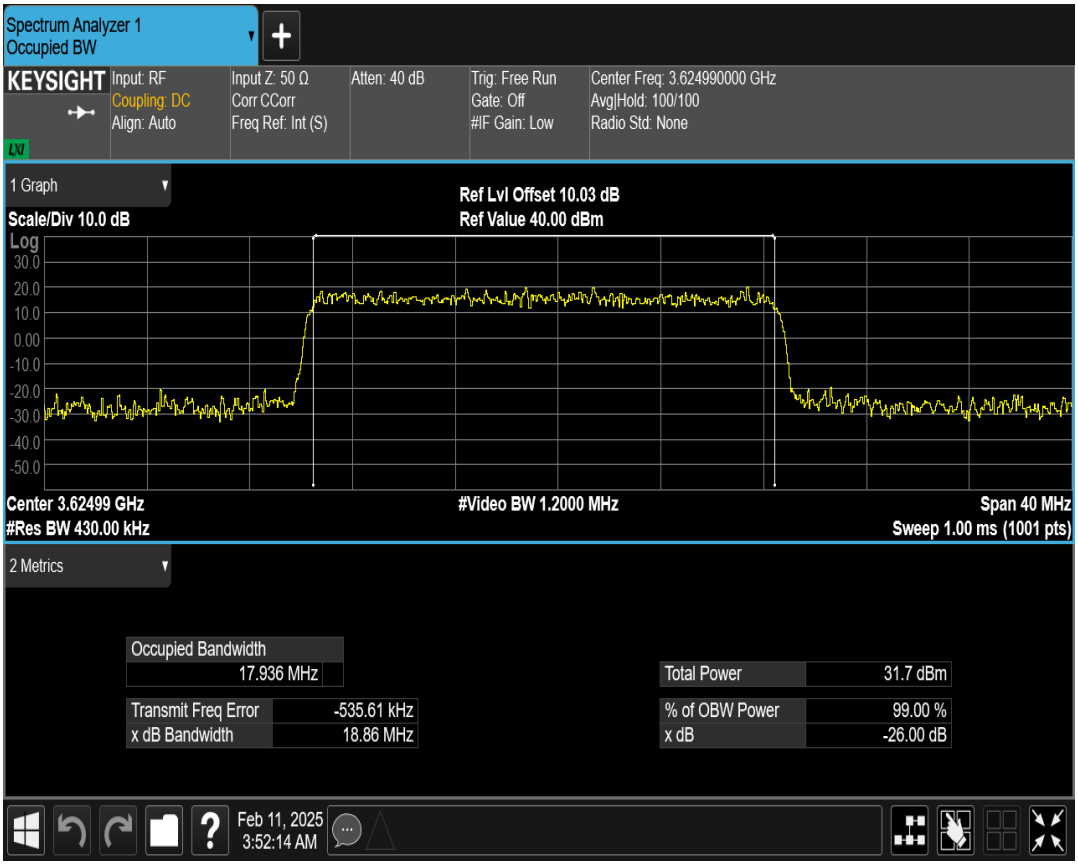
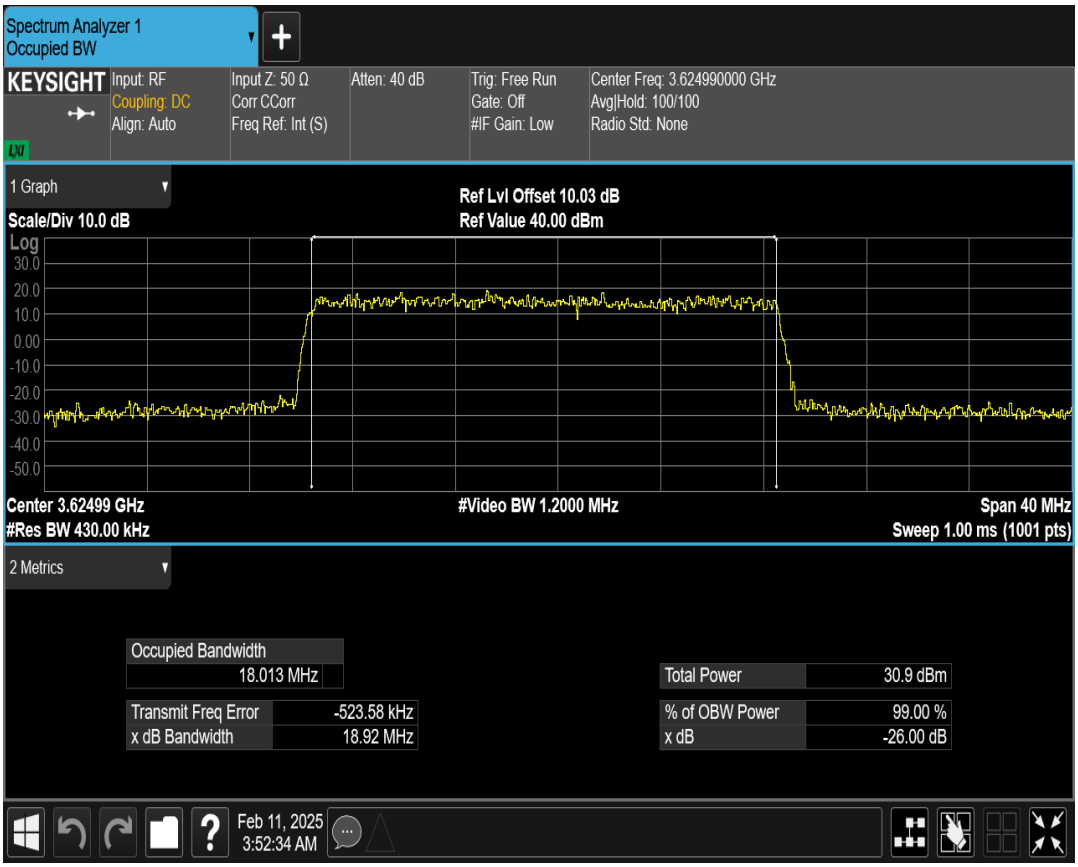


n77(3550-3700) SCS=15kHz DFT_QAM64 BW=20MHz Channel=641666 RB=100@0



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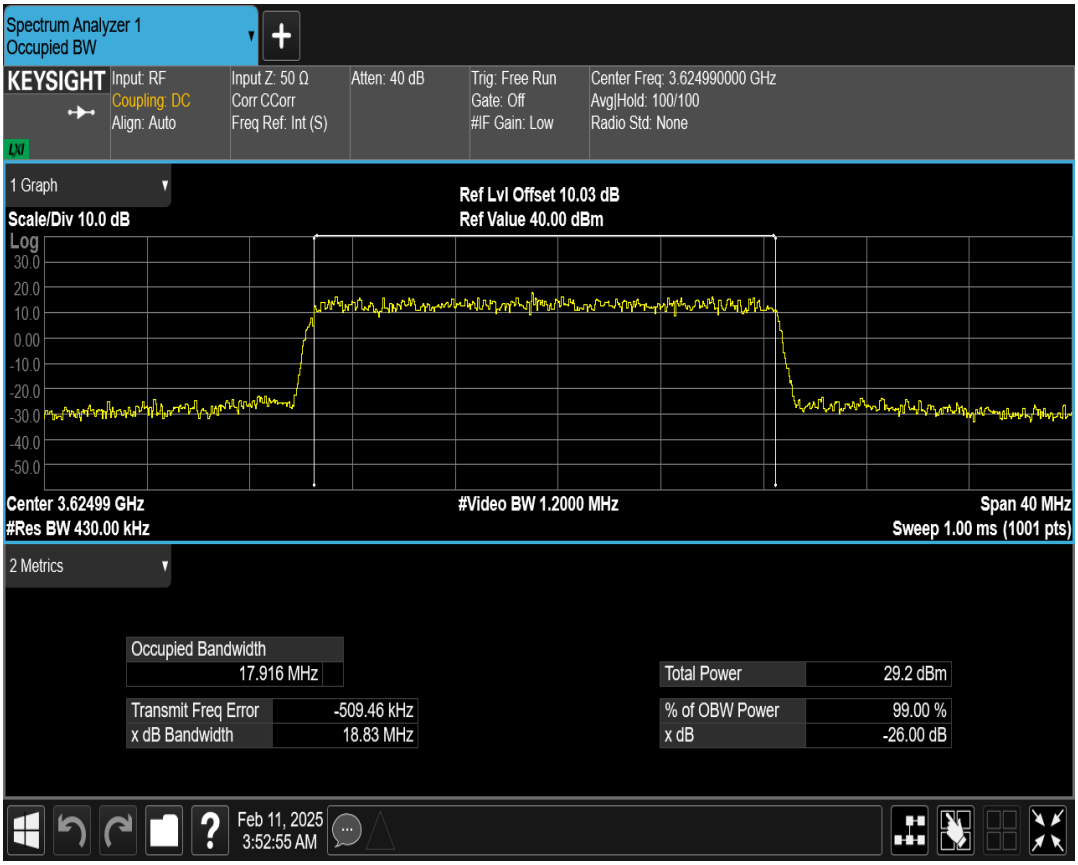
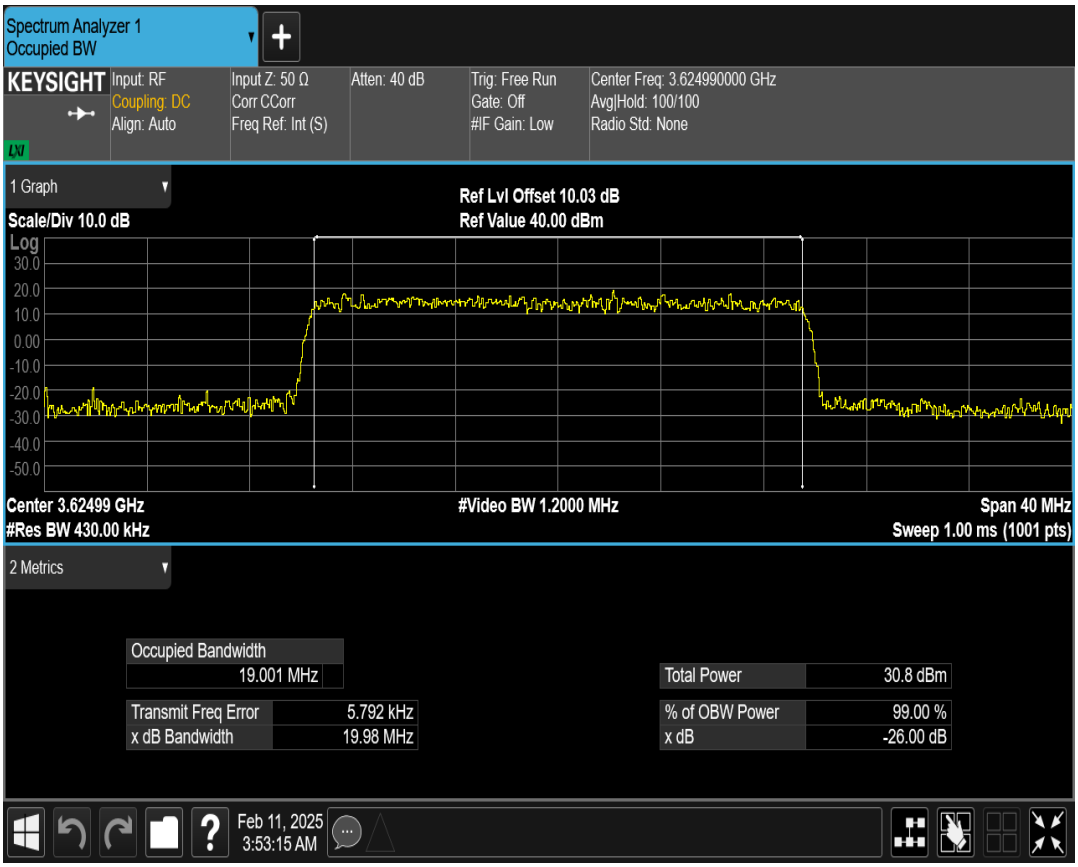
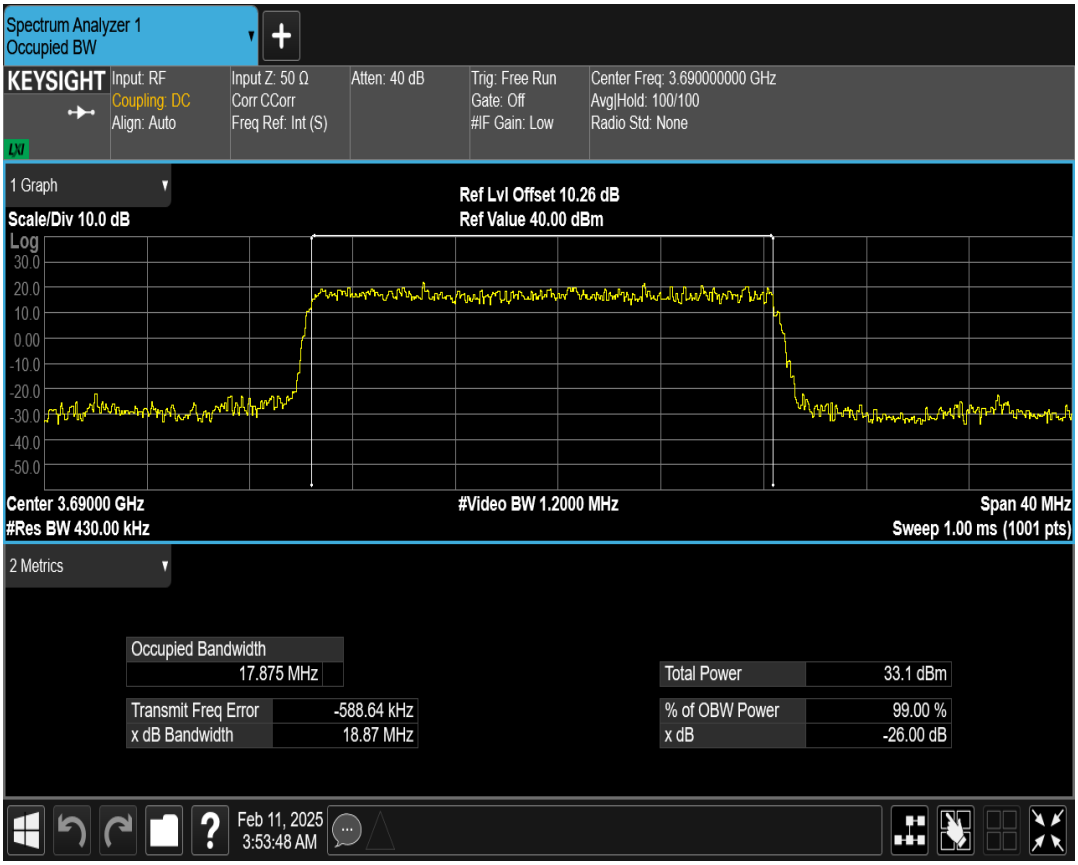


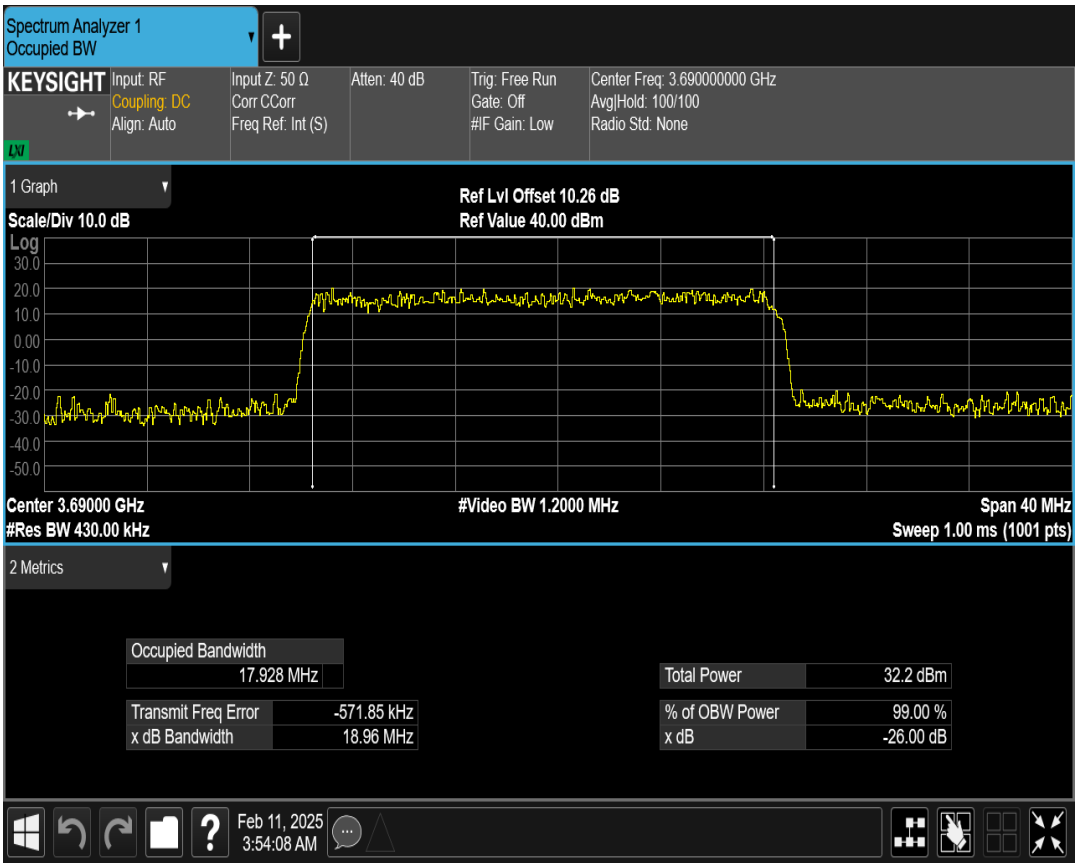
n77(3550-3700) SCS=15kHz CP_QPSK BW=20MHz Channel=641666 RB=106@0



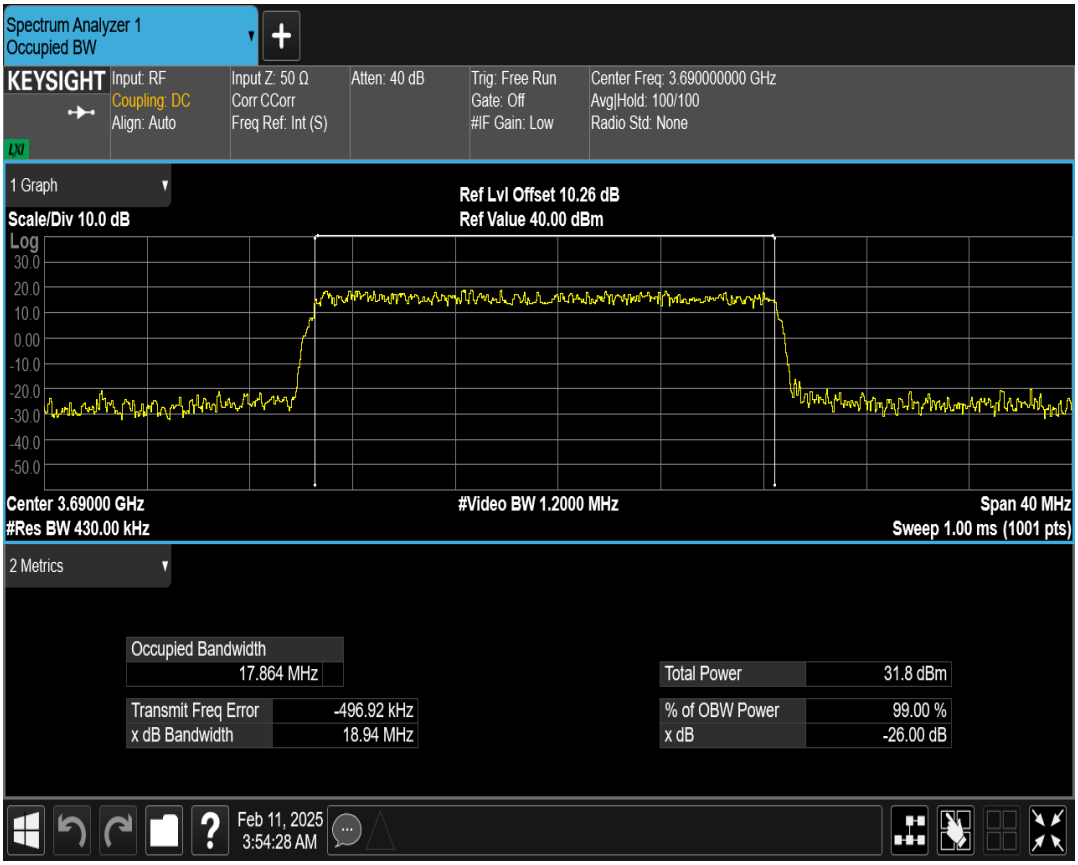
n77(3550-3700) SCS=15kHz DFT_BPSK BW=20MHz Channel=646000 RB=100@0



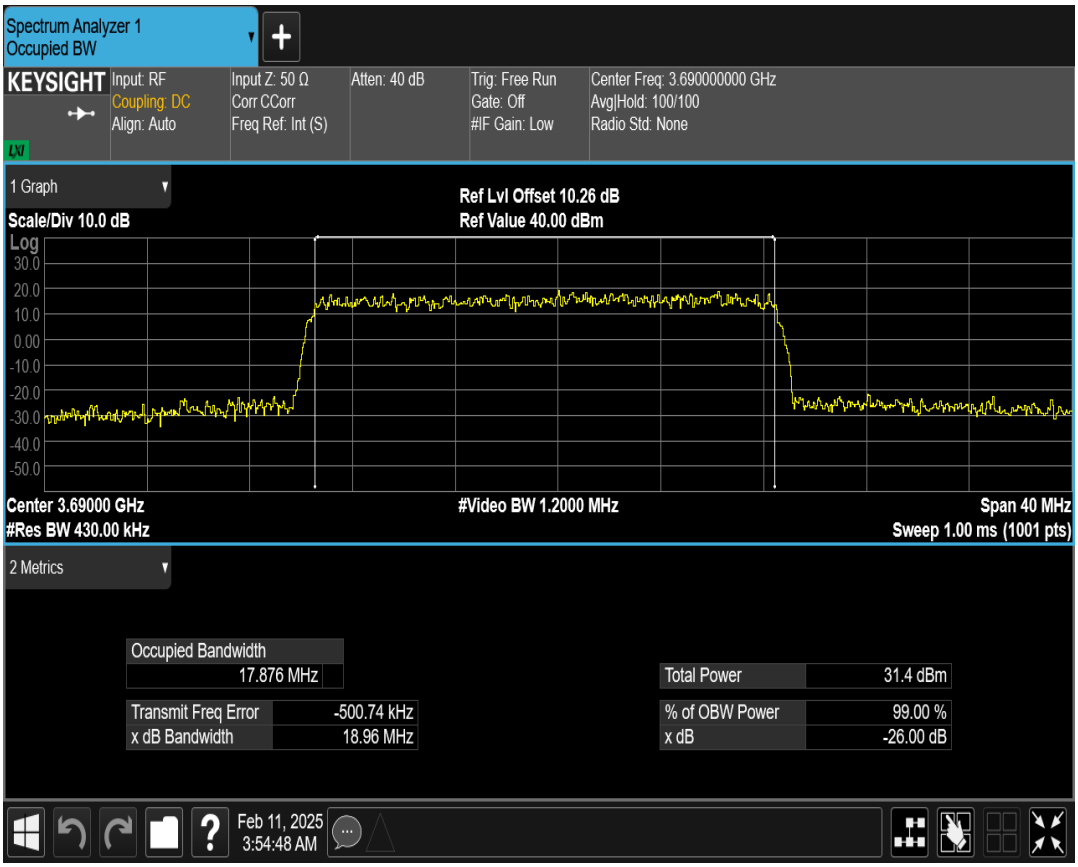
n77(3550-3700) SCS=15kHz DFT_QPSK BW=20MHz Channel=646000 RB=100@0



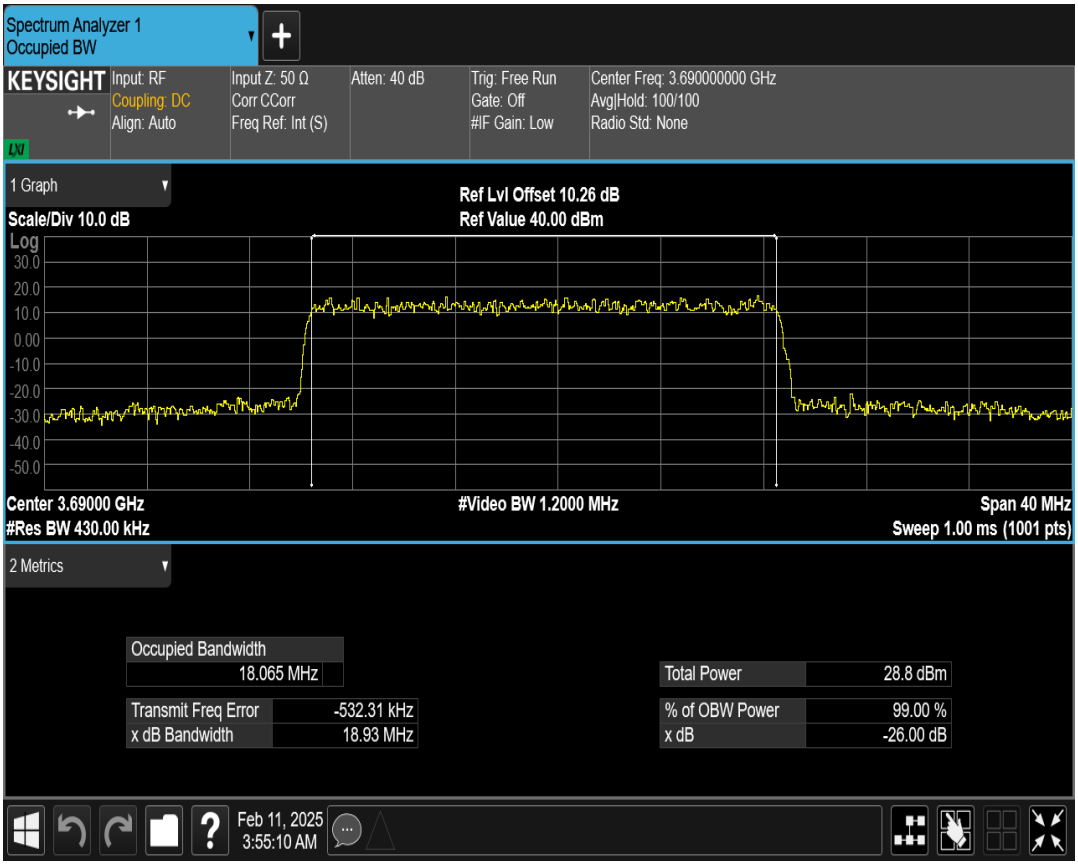
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=20MHz Channel=646000 RB=100@0



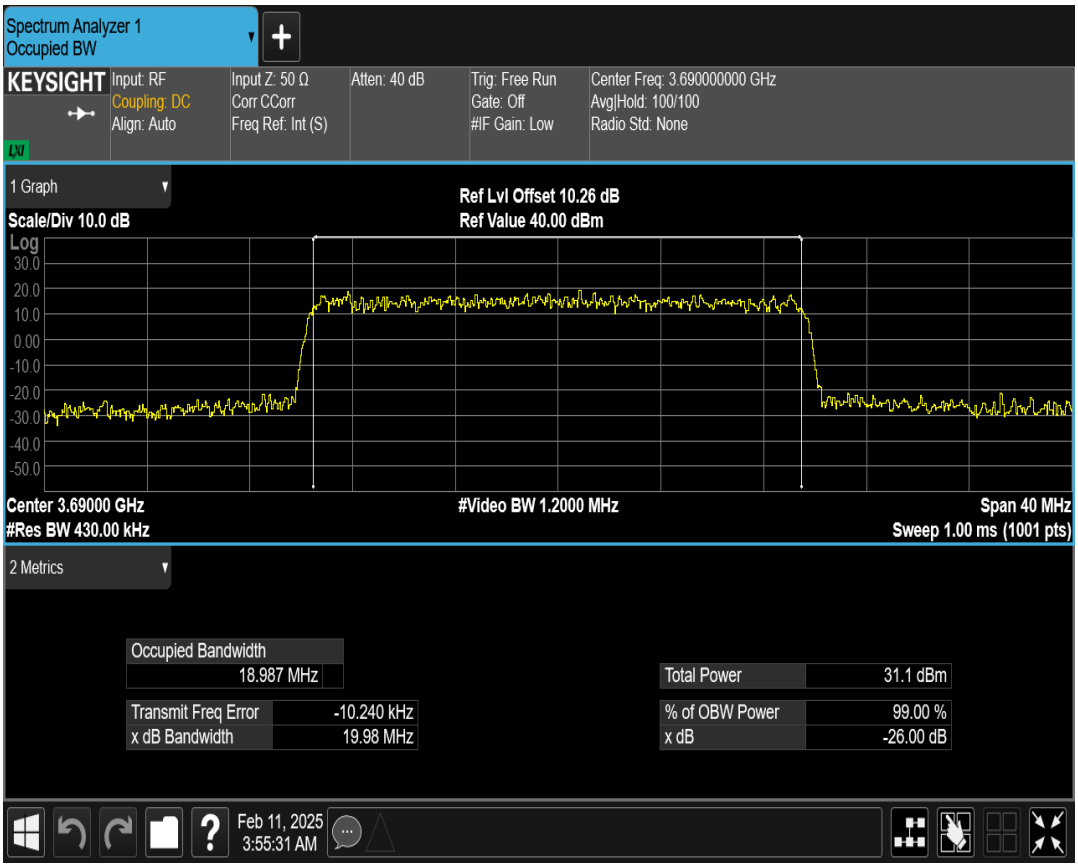
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=20MHz Channel=646000 RB=100@0



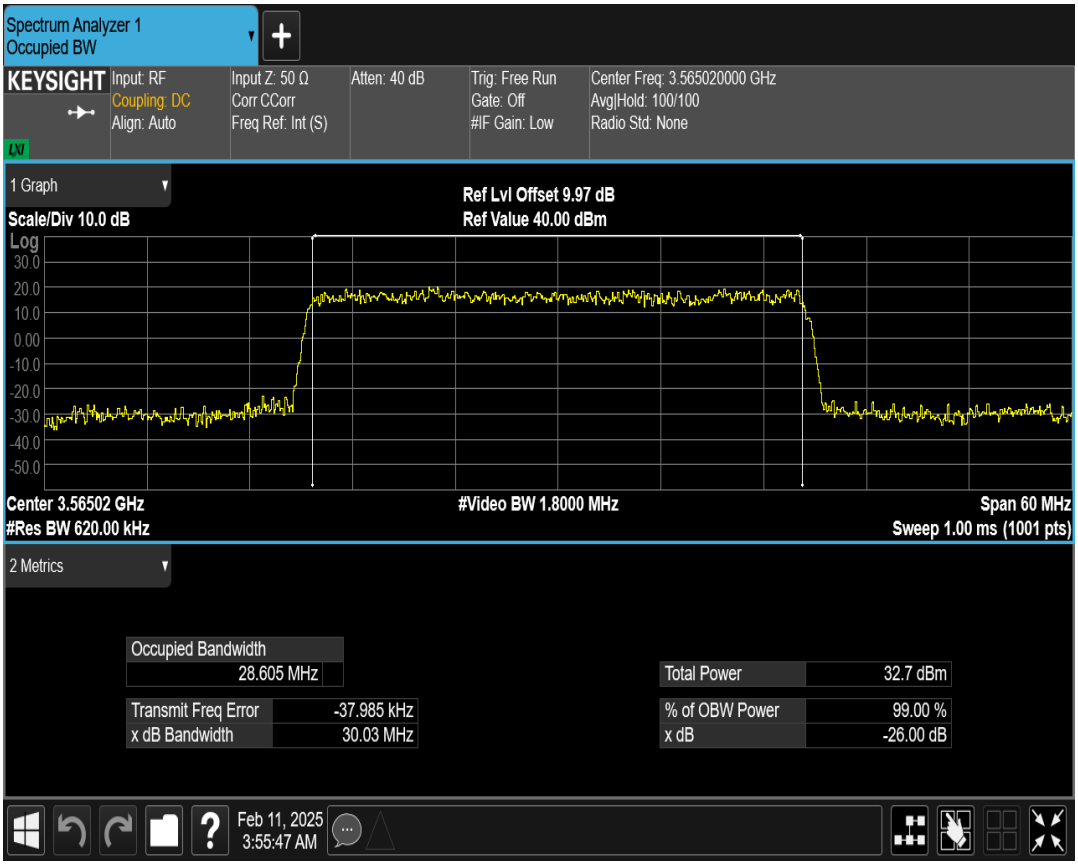
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=20MHz Channel=646000 RB=100@0



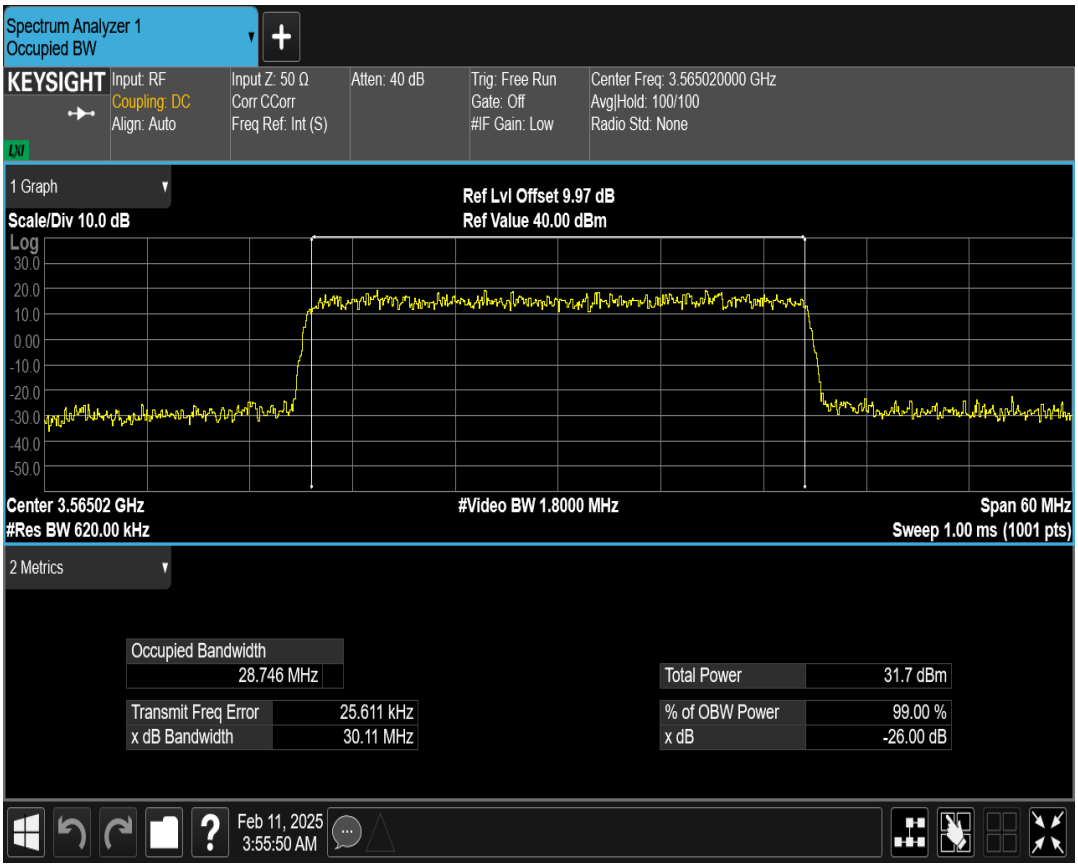
n77(3550-3700) SCS=15kHz CP_QPSK BW=20MHz Channel=646000 RB=106@0



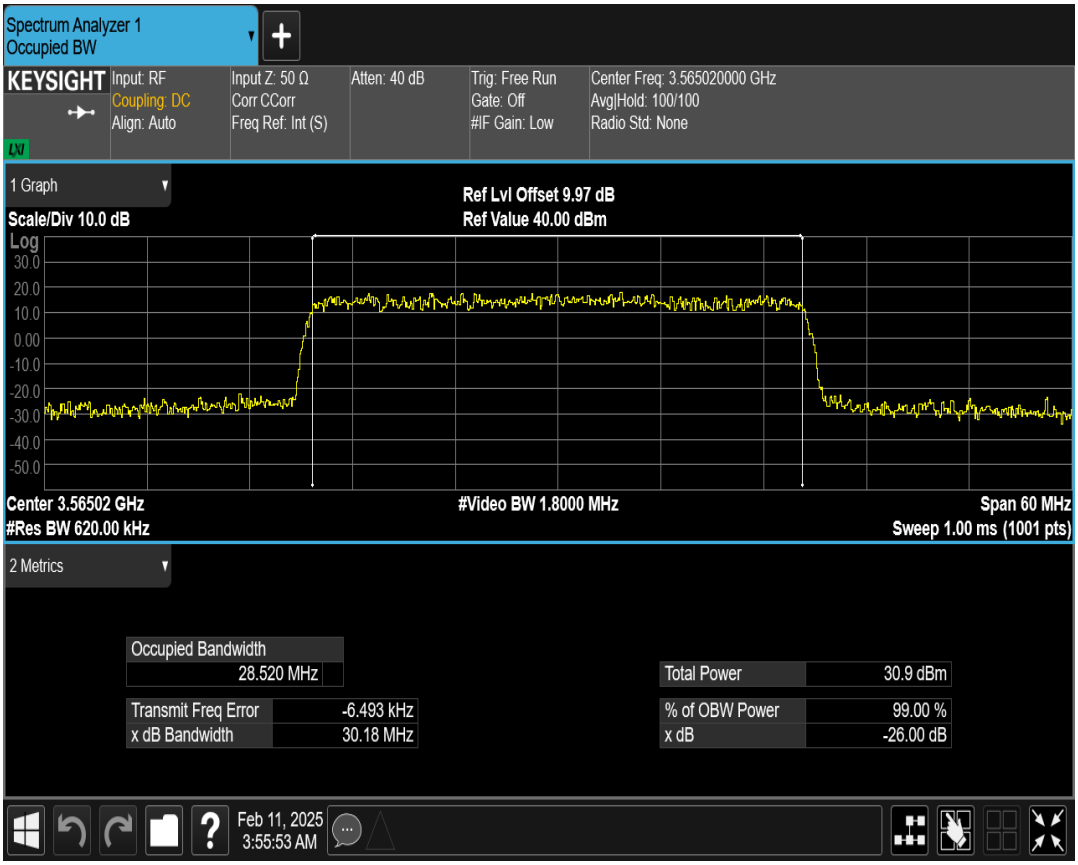
n77(3550-3700) SCS=15kHz DFT_BPSK BW=30MHz Channel=637668 RB=160@0



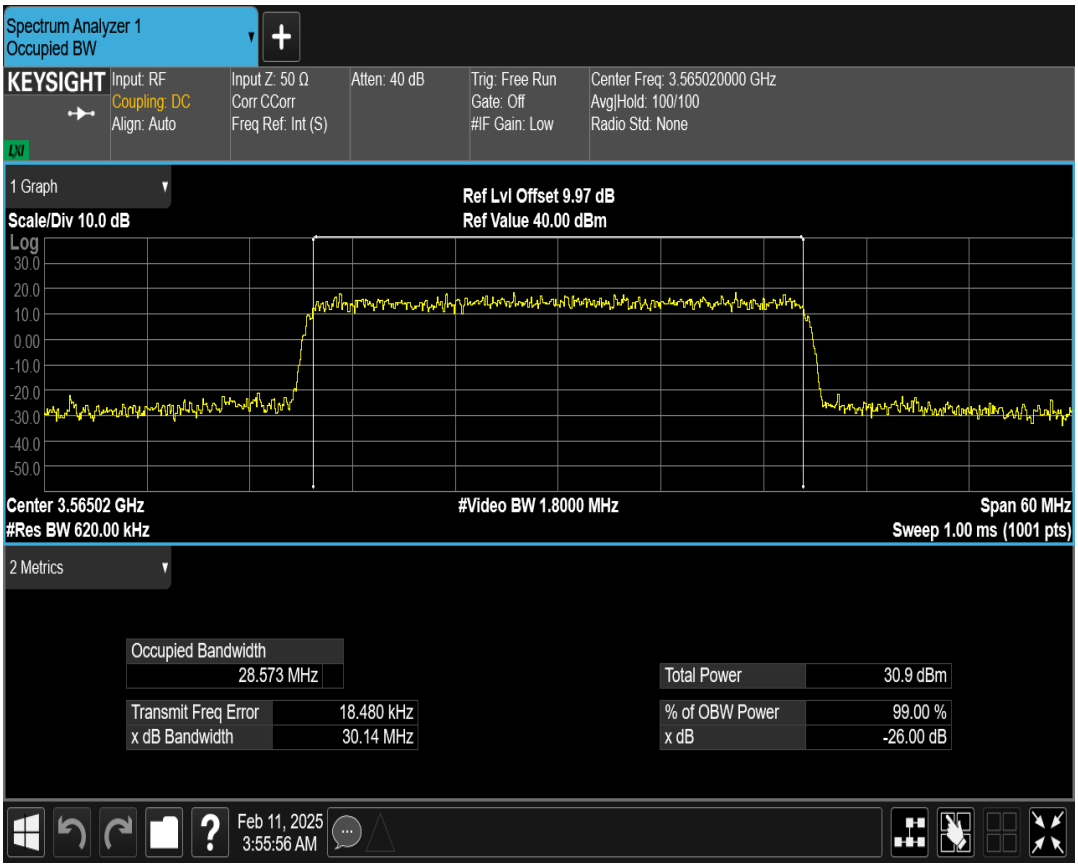
n77(3550-3700) SCS=15kHz DFT_QPSK BW=30MHz Channel=637668 RB=160@0



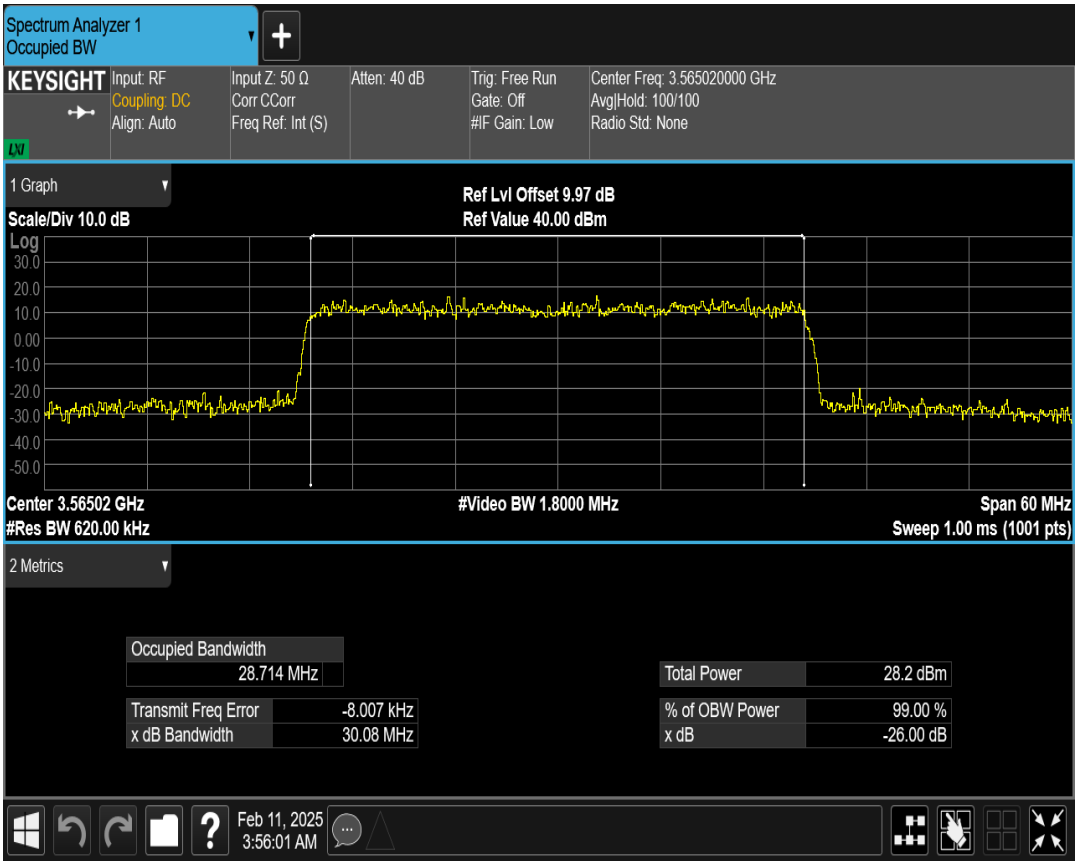
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=30MHz Channel=637668 RB=160@0



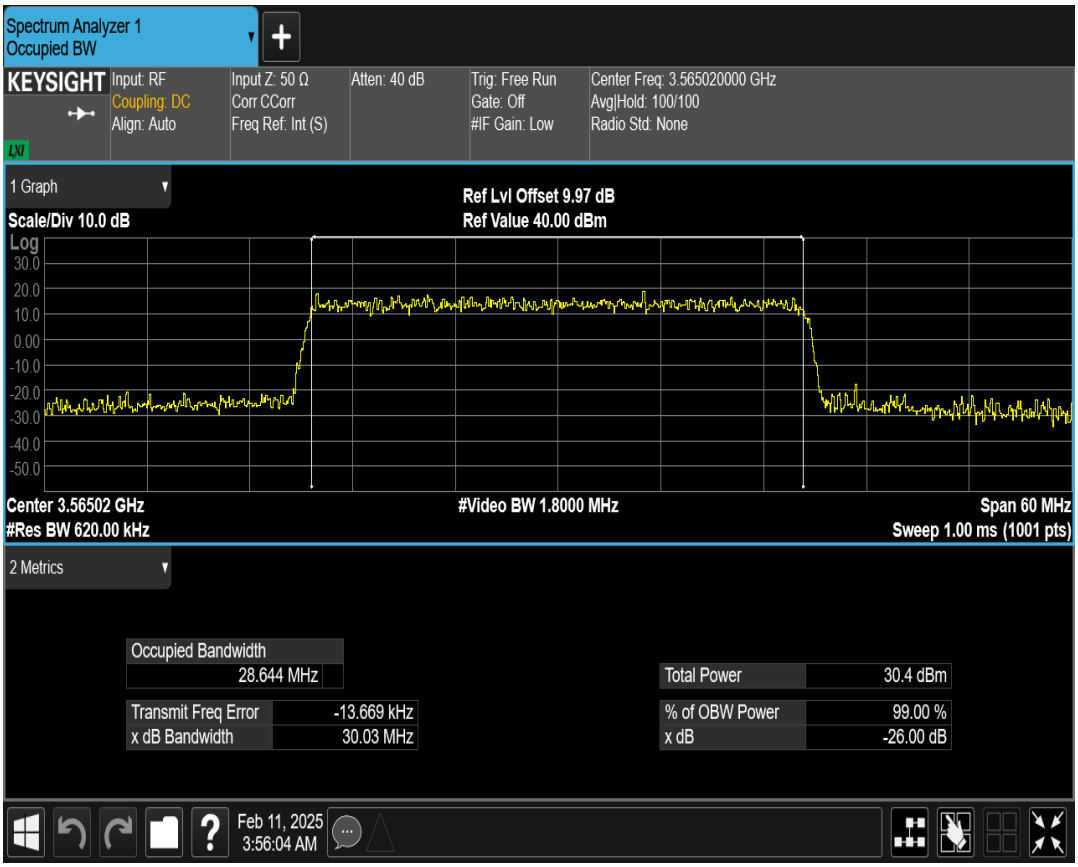
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=30MHz Channel=637668 RB=160@0



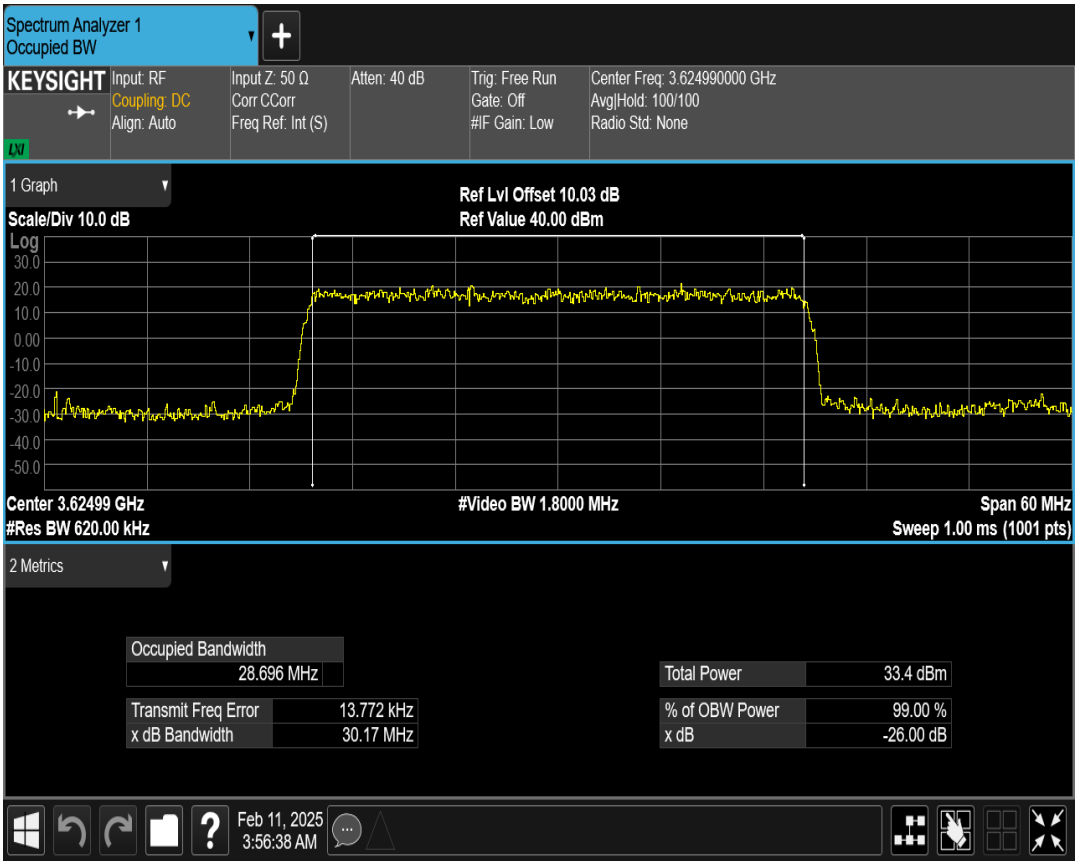
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=30MHz Channel=637668 RB=160@0



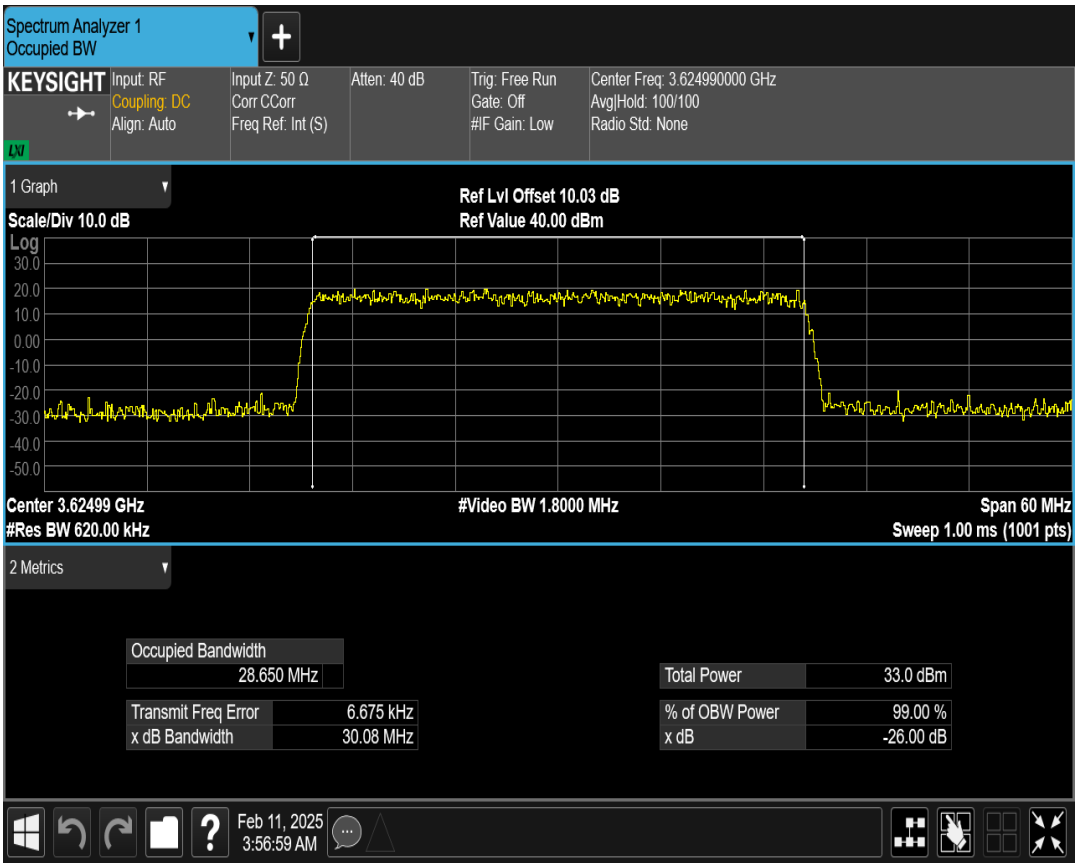
n77(3550-3700) SCS=15kHz CP_QPSK BW=30MHz Channel=637668 RB=160@0



n77(3550-3700) SCS=15kHz DFT_BPSK BW=30MHz Channel=641666 RB=160@0



n77(3550-3700) SCS=15kHz DFT_QPSK BW=30MHz Channel=641666 RB=160@0



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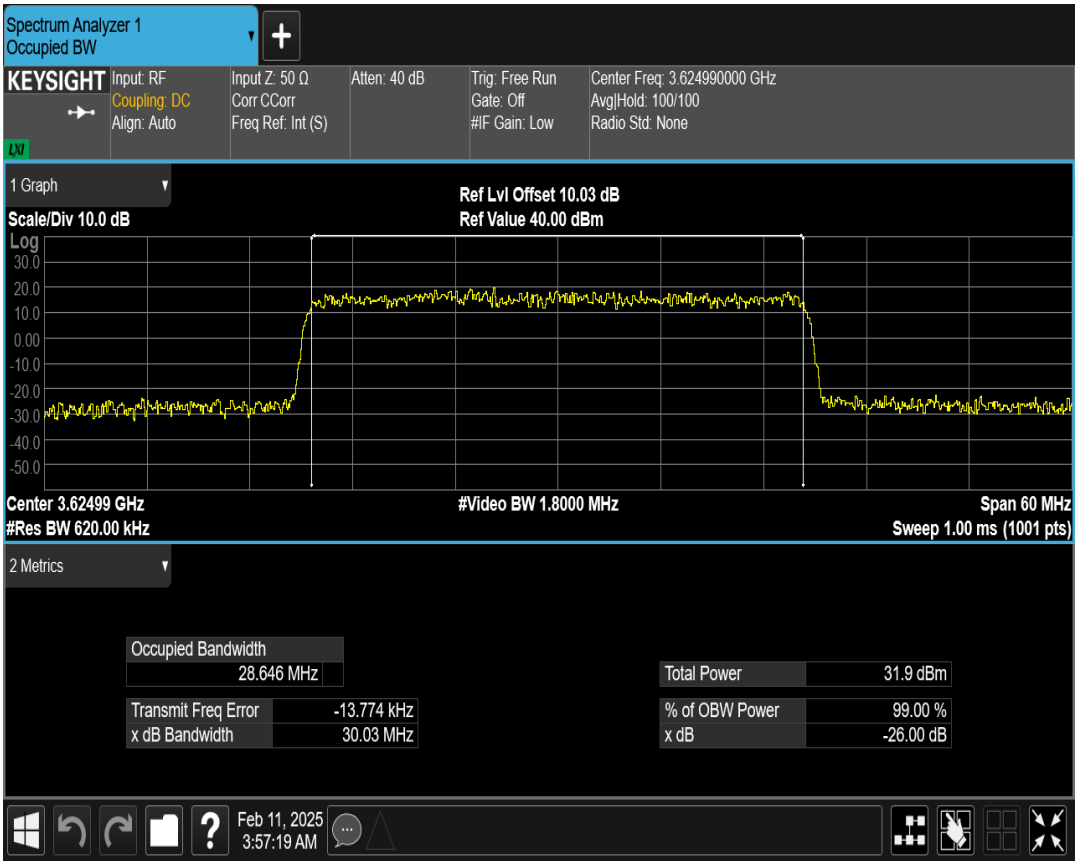
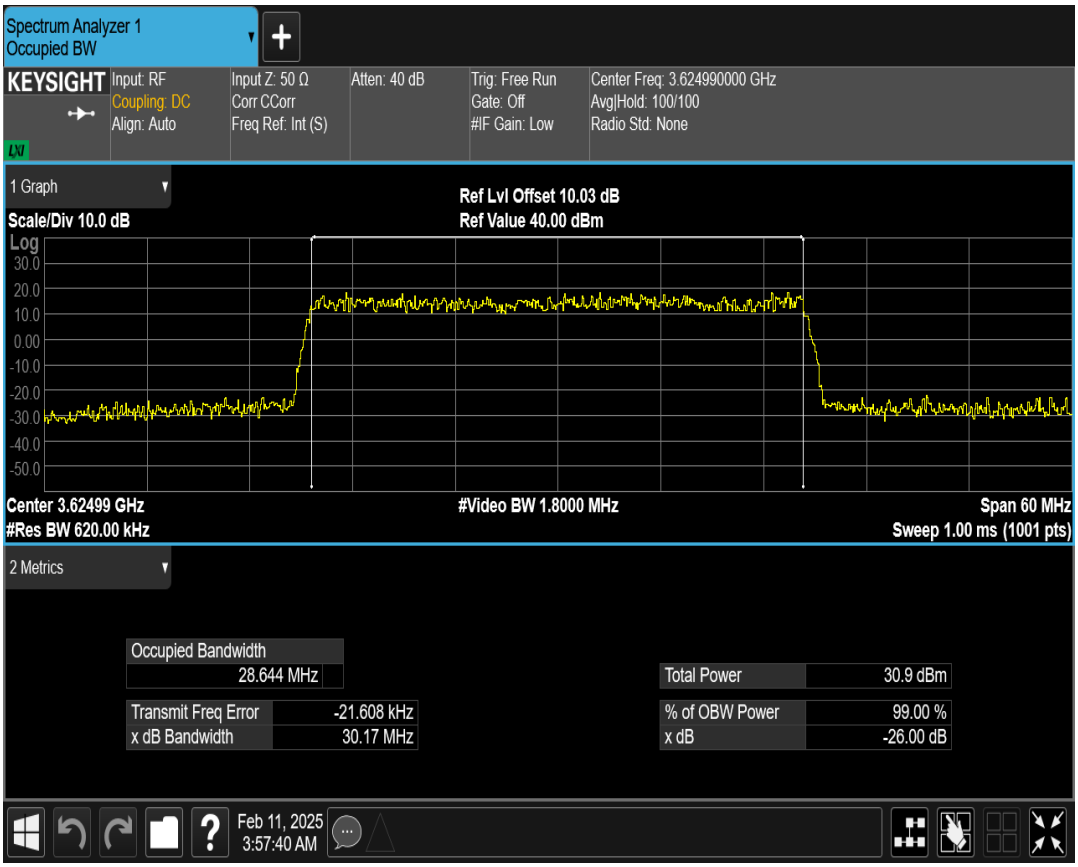
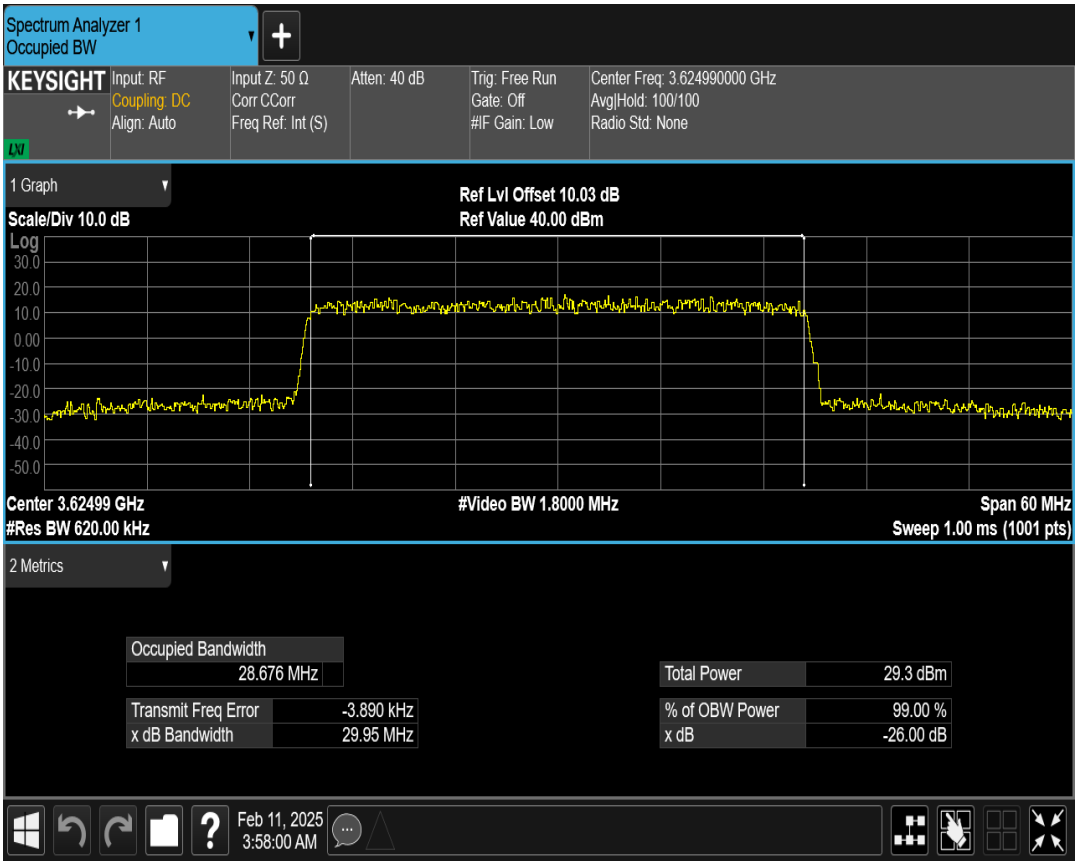


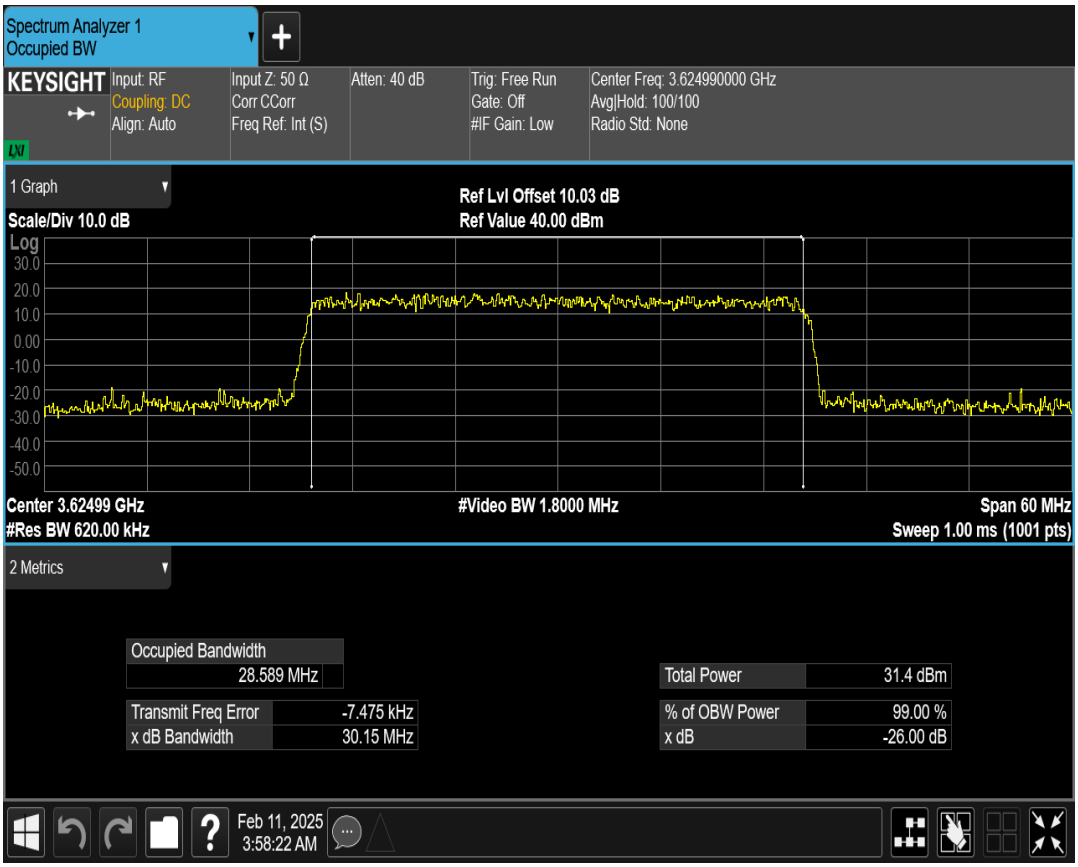
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=30MHz Channel=641666 RB=160@0



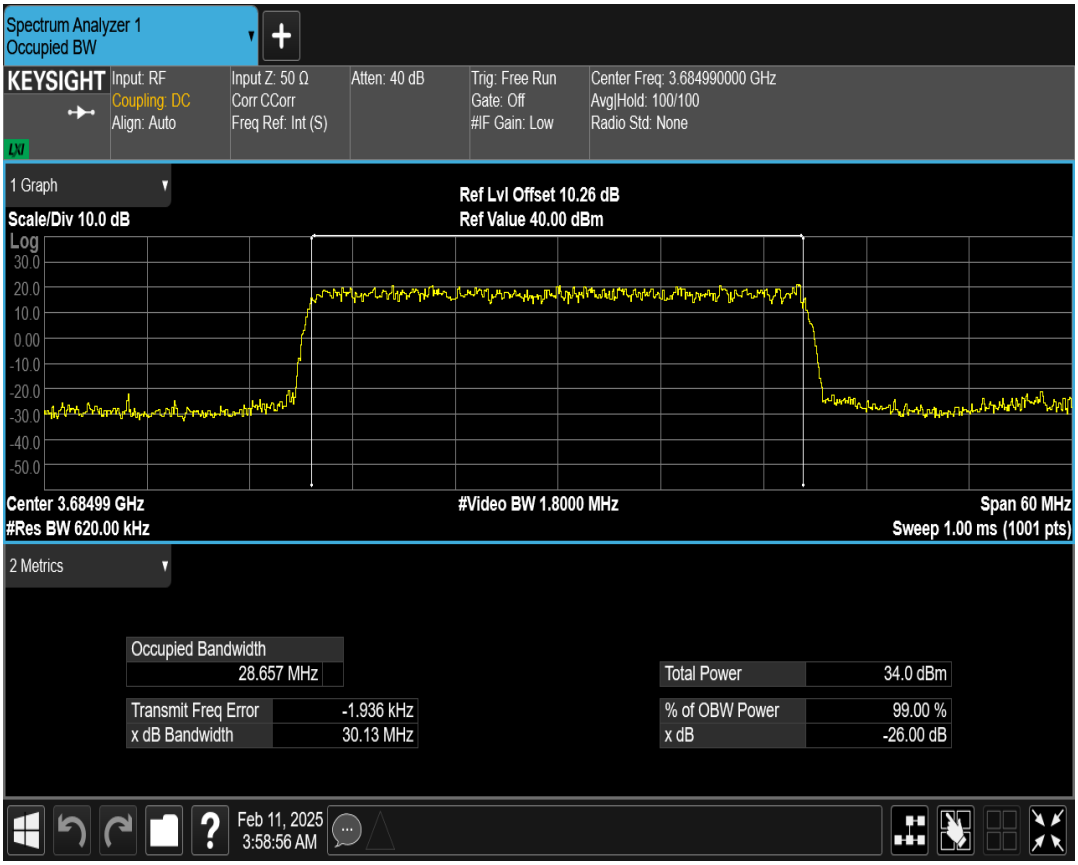
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=30MHz Channel=641666 RB=160@0



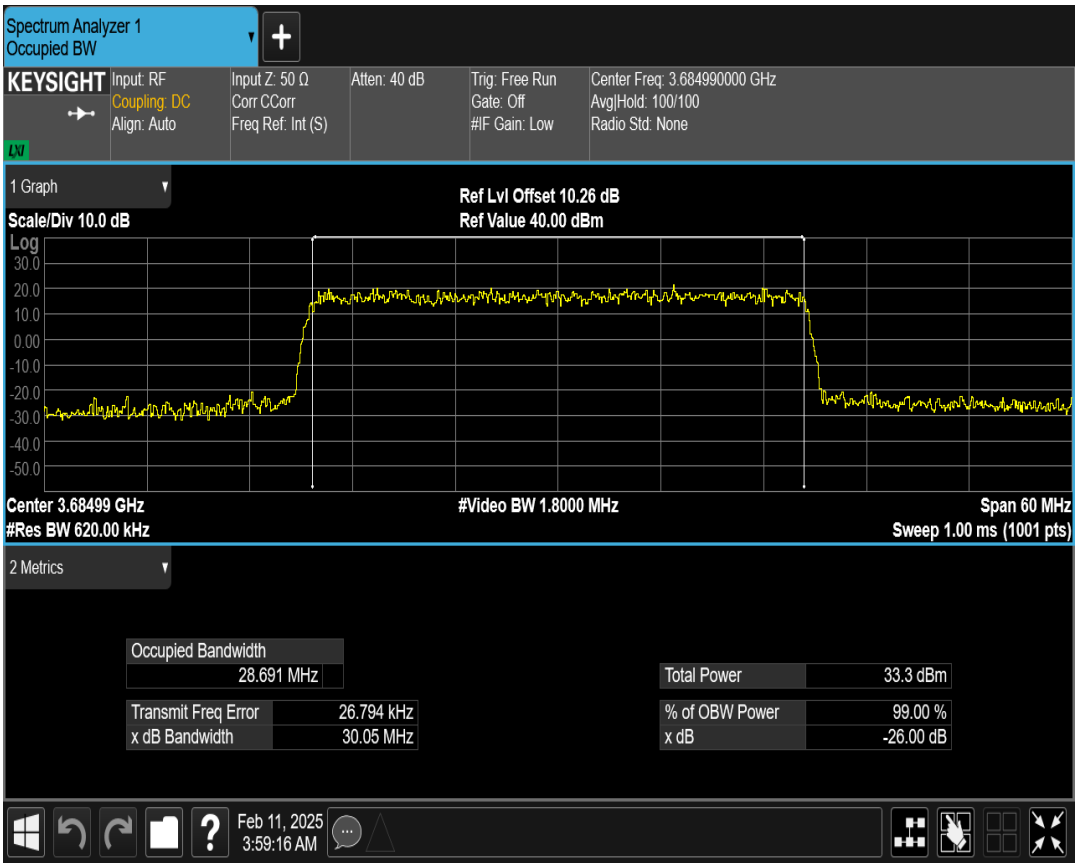
n77(3550-3700) SCS=15kHz CP_QPSK BW=30MHz Channel=641666 RB=160@0



n77(3550-3700) SCS=15kHz DFT_BPSK BW=30MHz Channel=645666 RB=160@0



n77(3550-3700) SCS=15kHz DFT_QPSK BW=30MHz Channel=645666 RB=160@0



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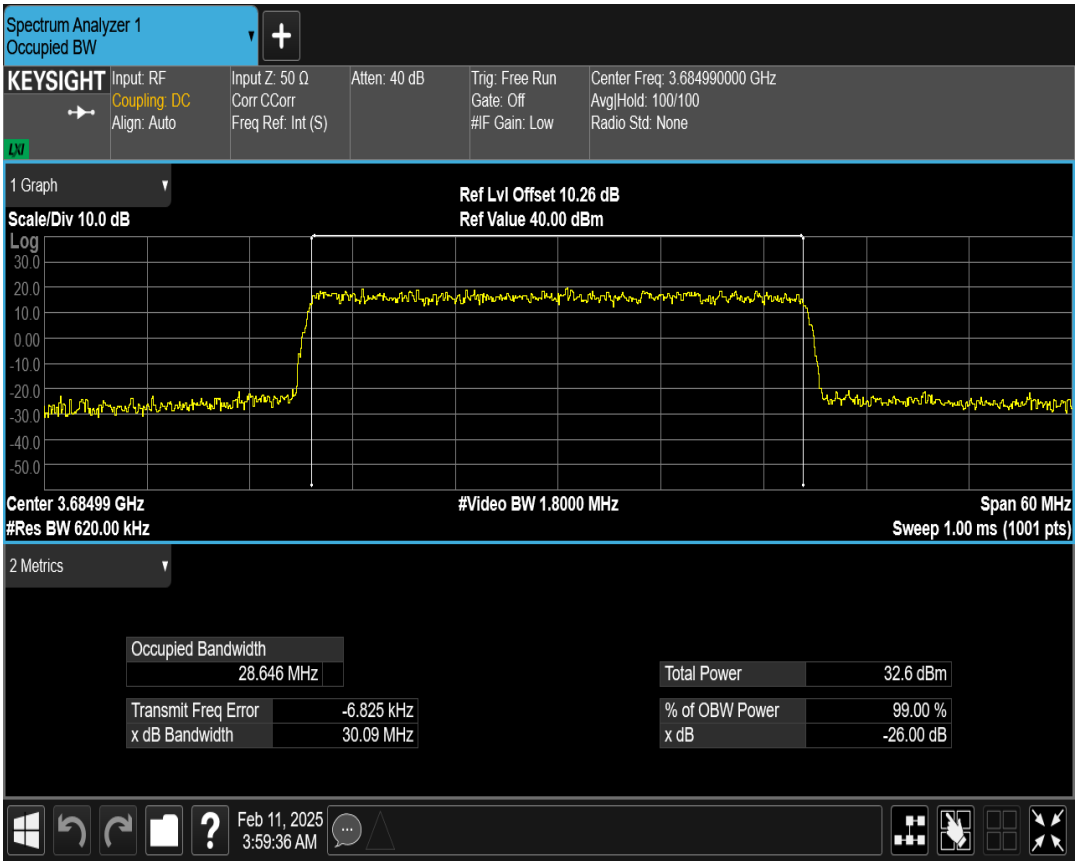
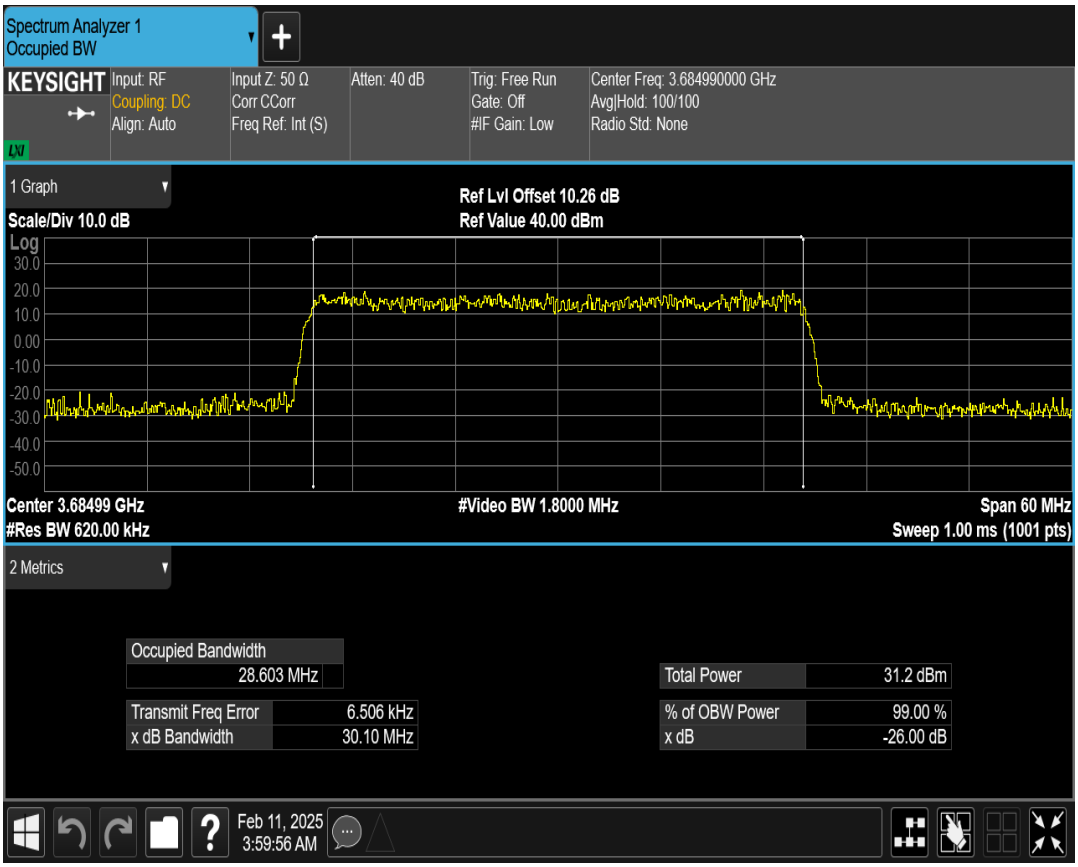
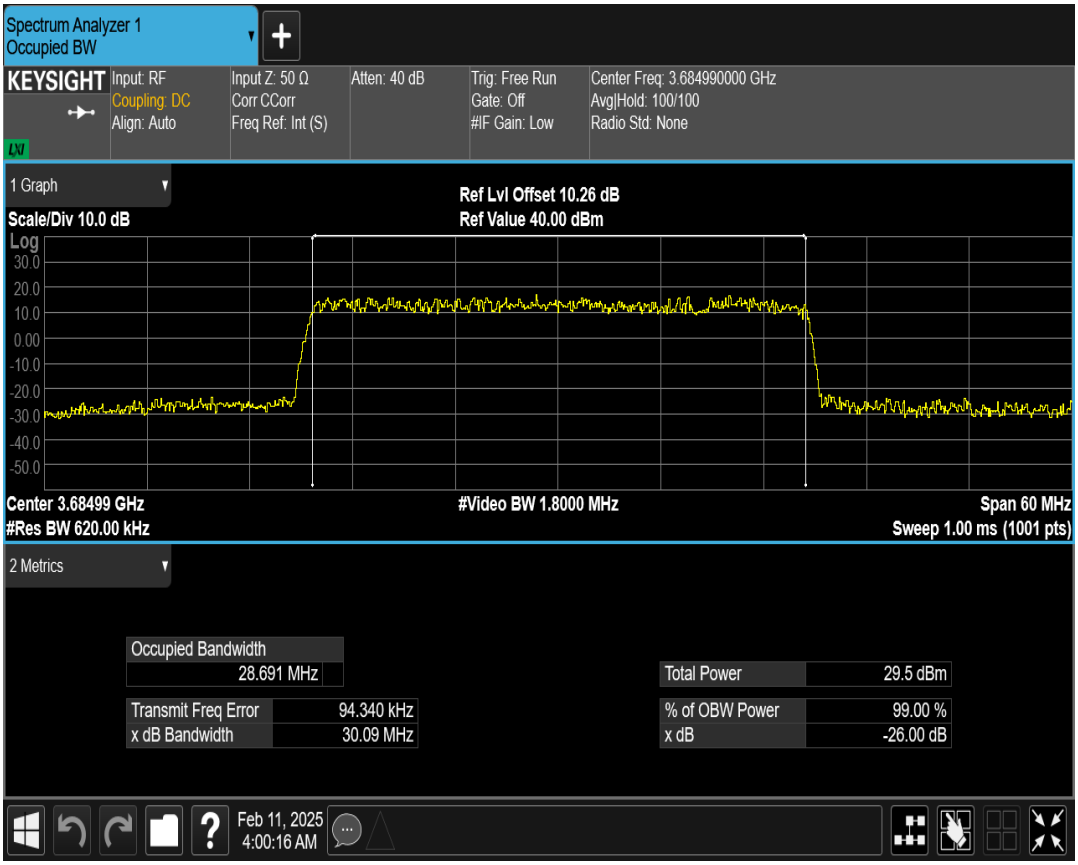


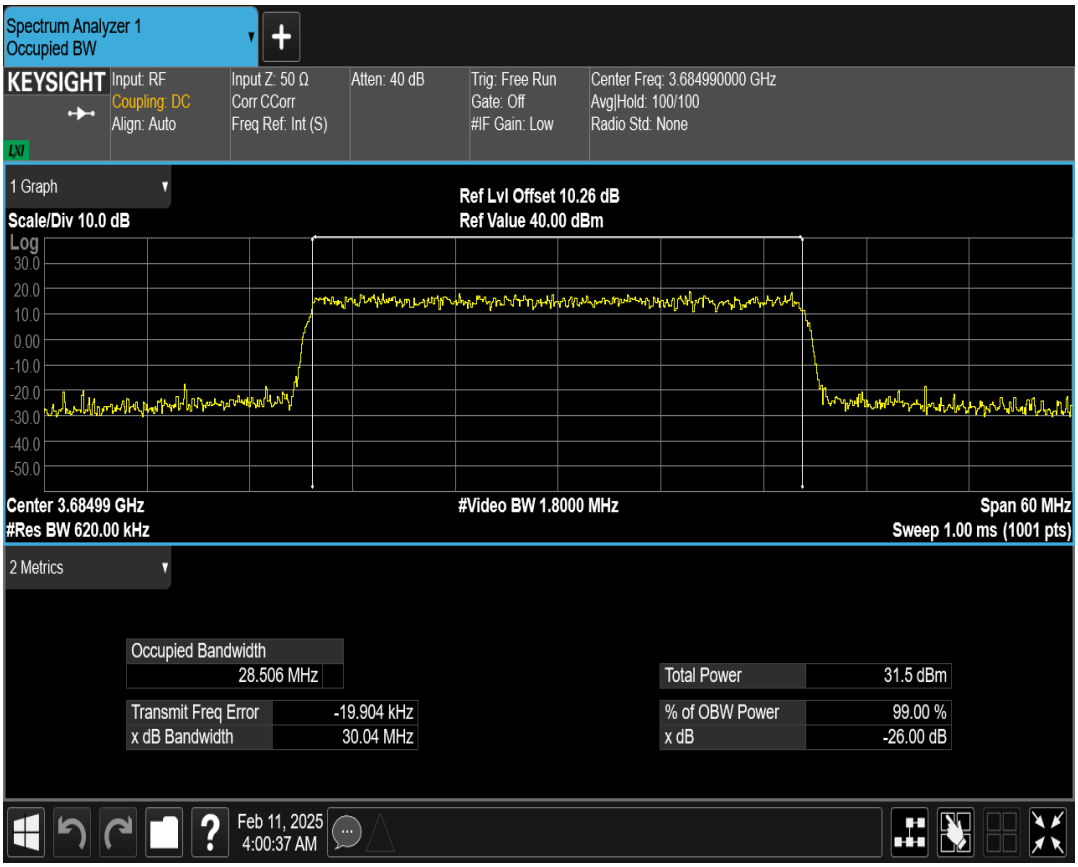
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=30MHz Channel=645666 RB=160@0



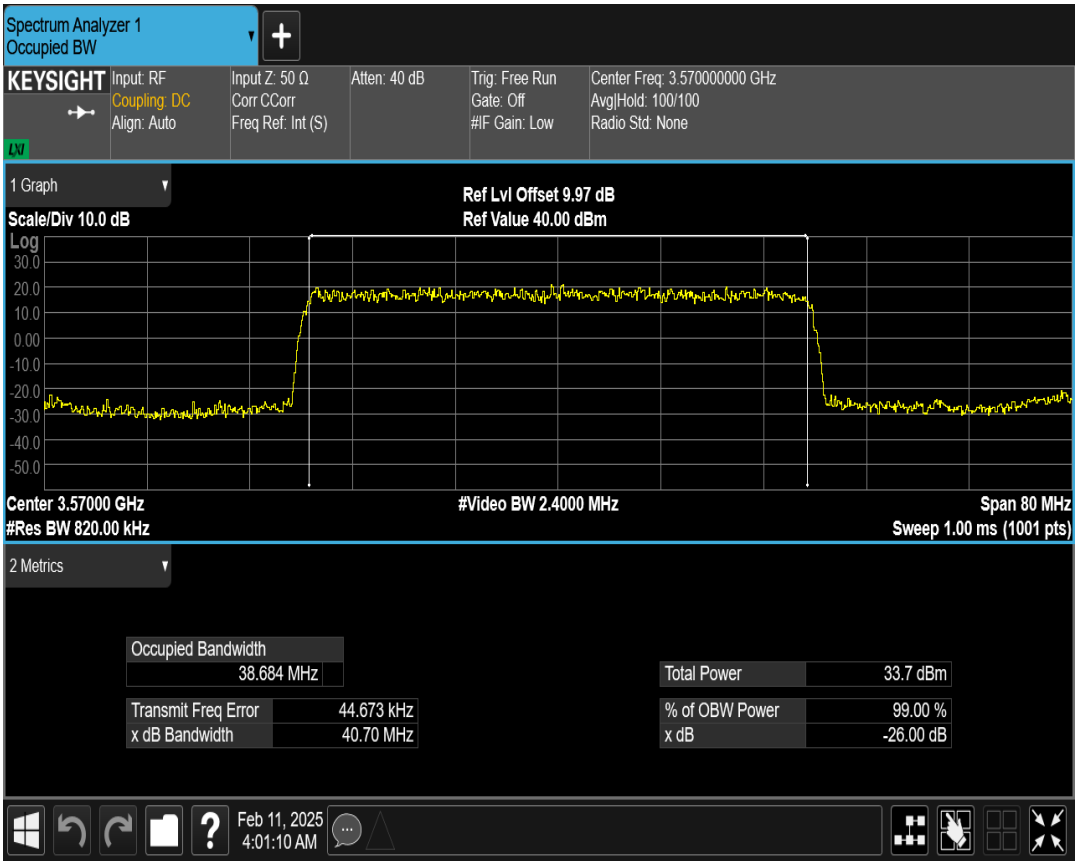
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=30MHz Channel=645666 RB=160@0



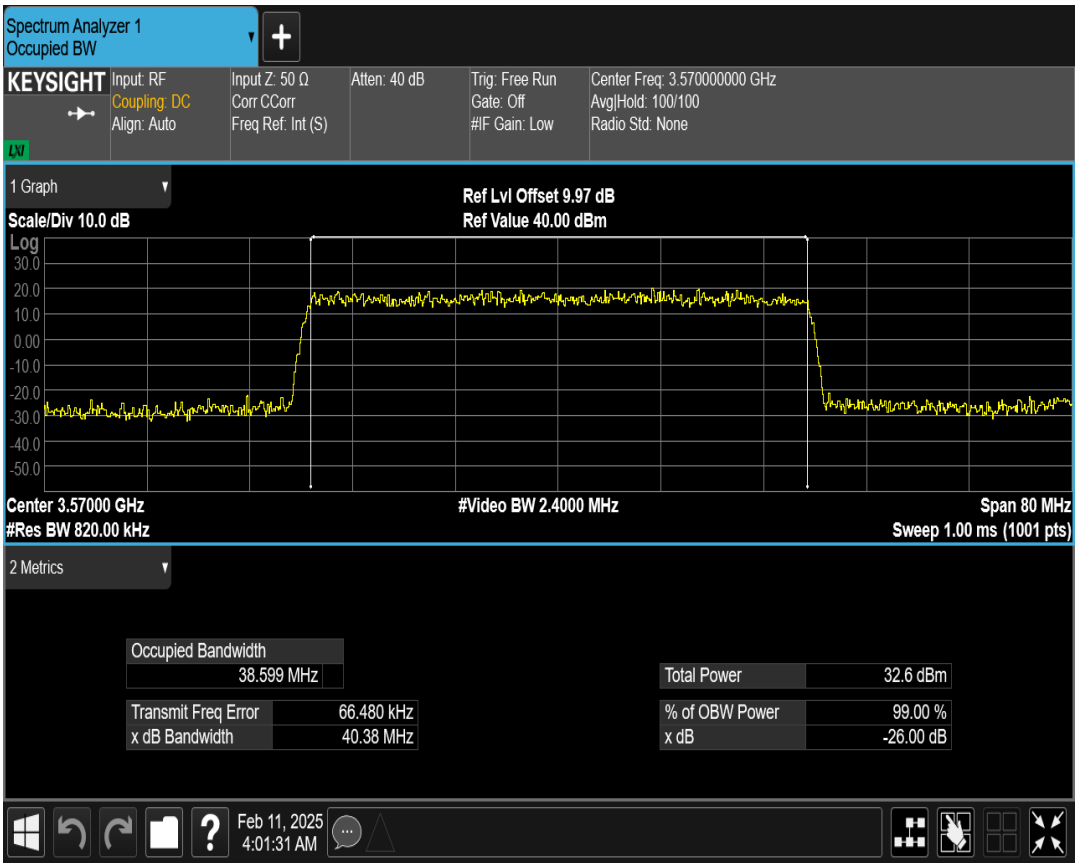
n77(3550-3700) SCS=15kHz CP_QPSK BW=30MHz Channel=645666 RB=160@0



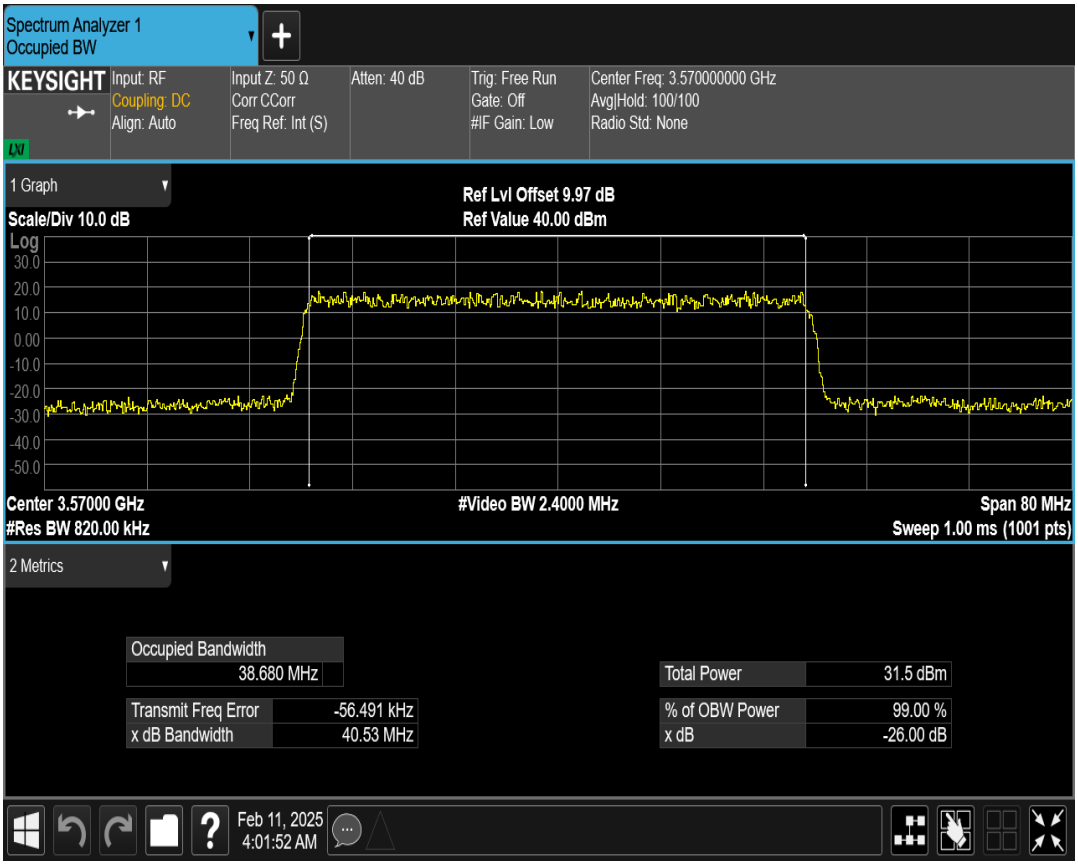
n77(3550-3700) SCS=15kHz DFT_BPSK BW=40MHz Channel=638000 RB=216@0



n77(3550-3700) SCS=15kHz DFT_QPSK BW=40MHz Channel=638000 RB=216@0



n77(3550-3700) SCS=15kHz DFT_QAM16 BW=40MHz Channel=638000 RB=216@0



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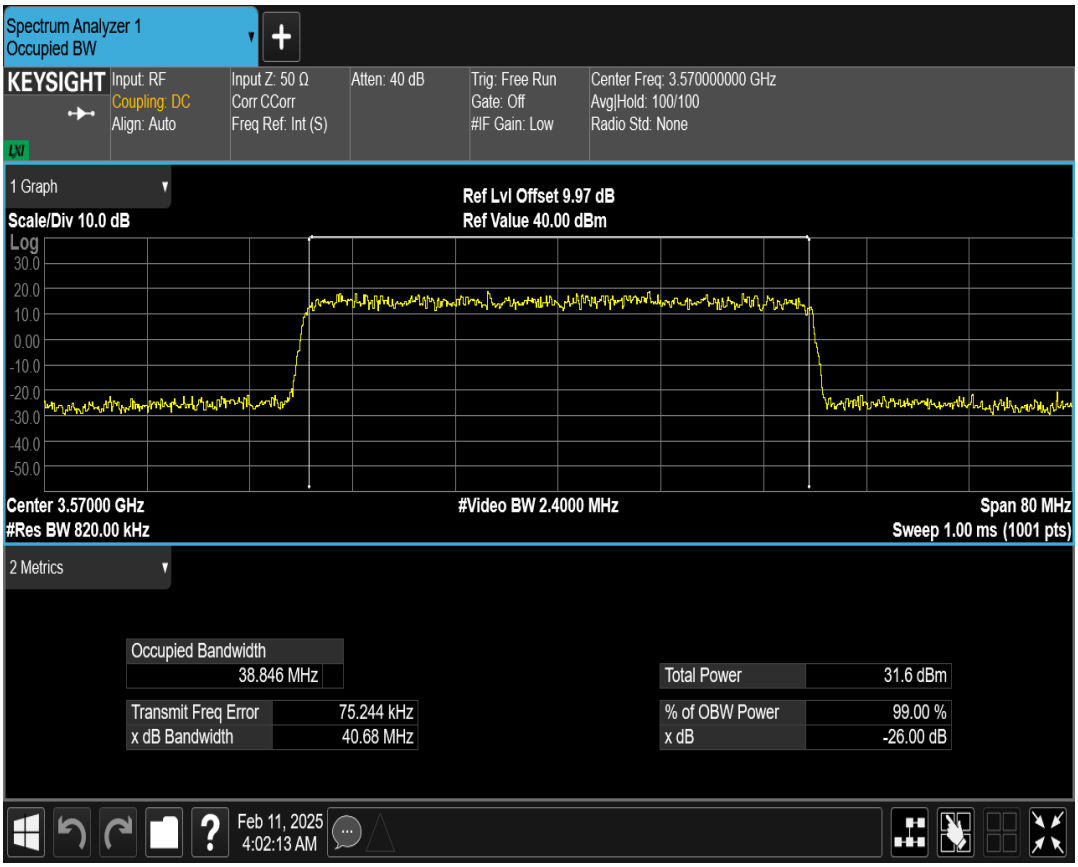

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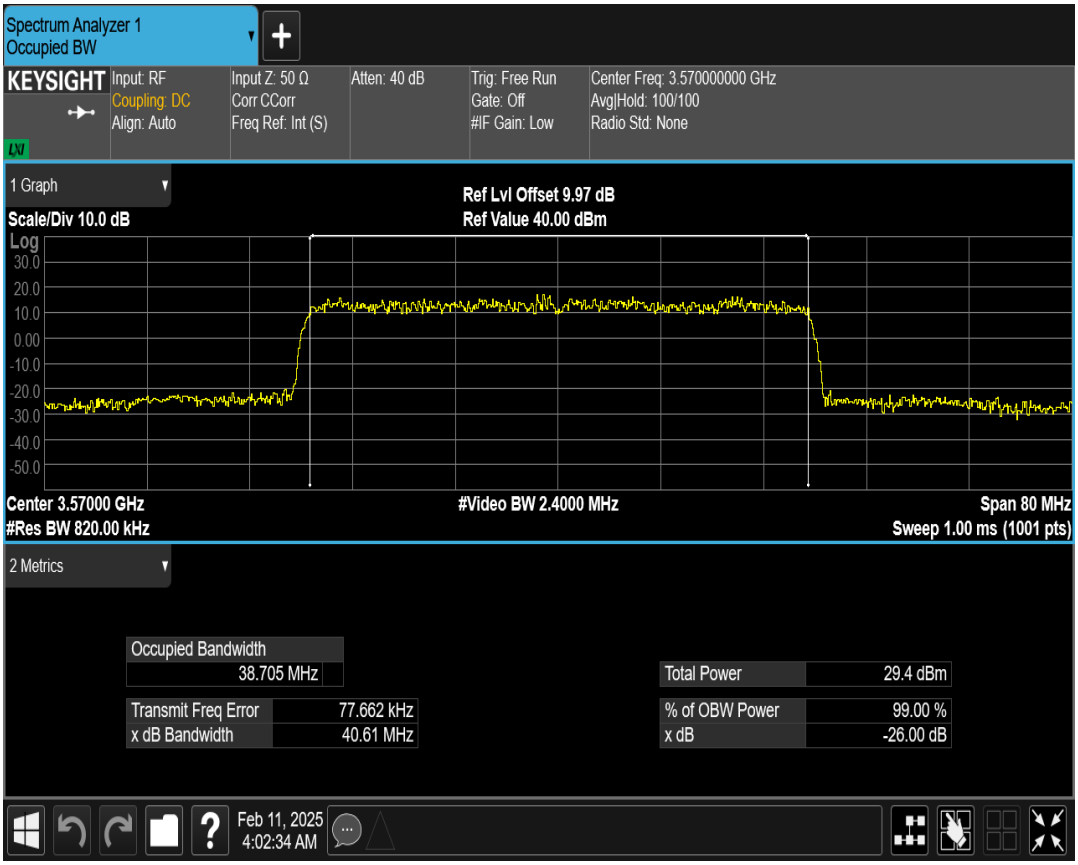
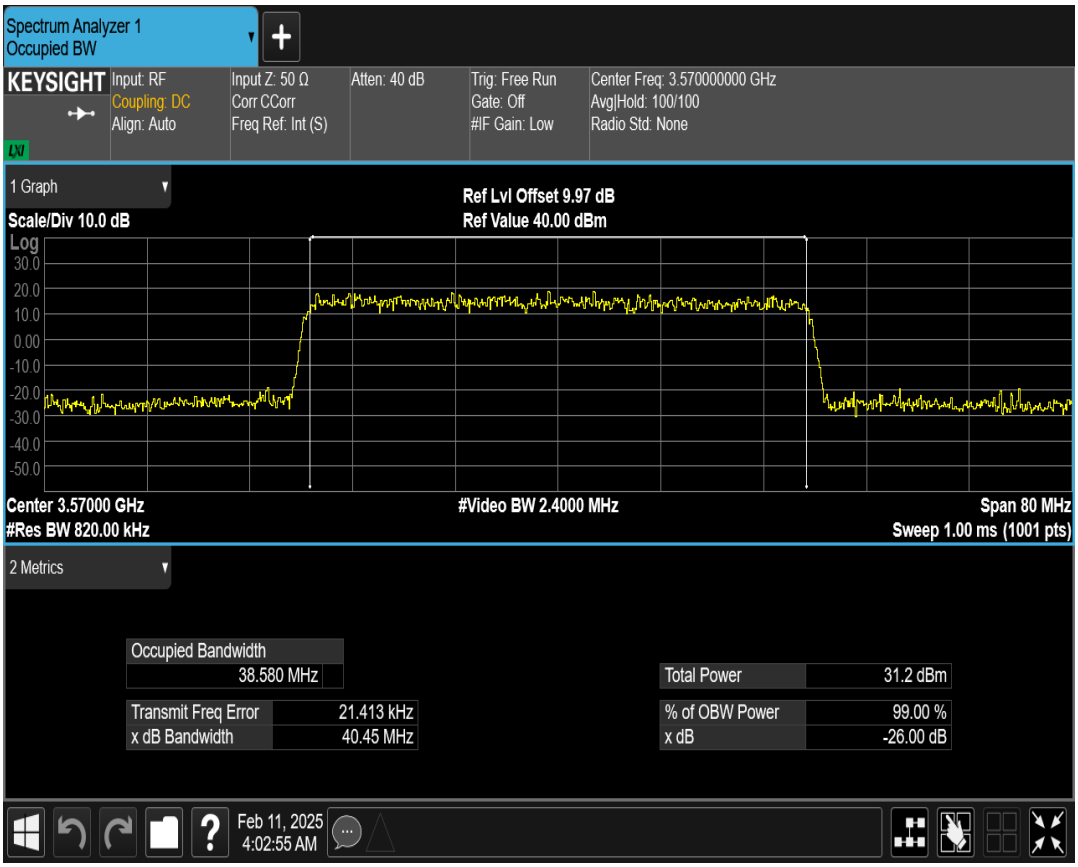
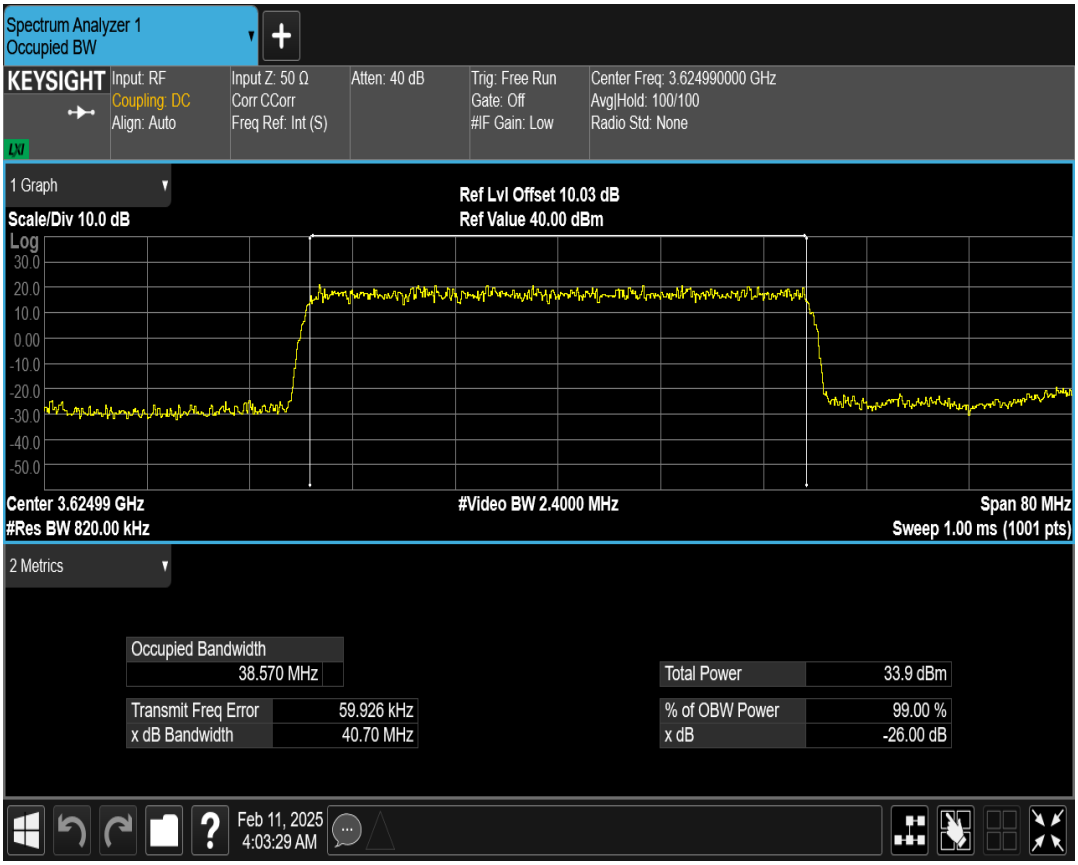


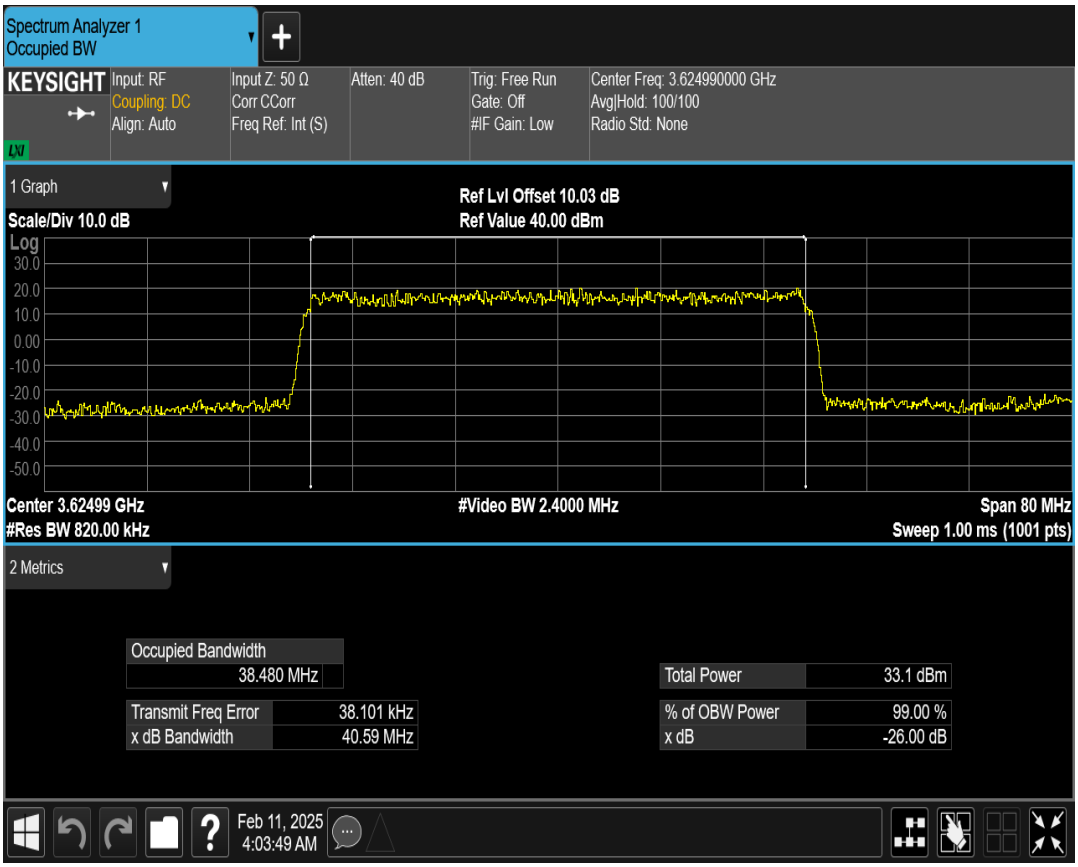
n77(3550-3700) SCS=15kHz CP_QPSK BW=40MHz Channel=638000 RB=216@0



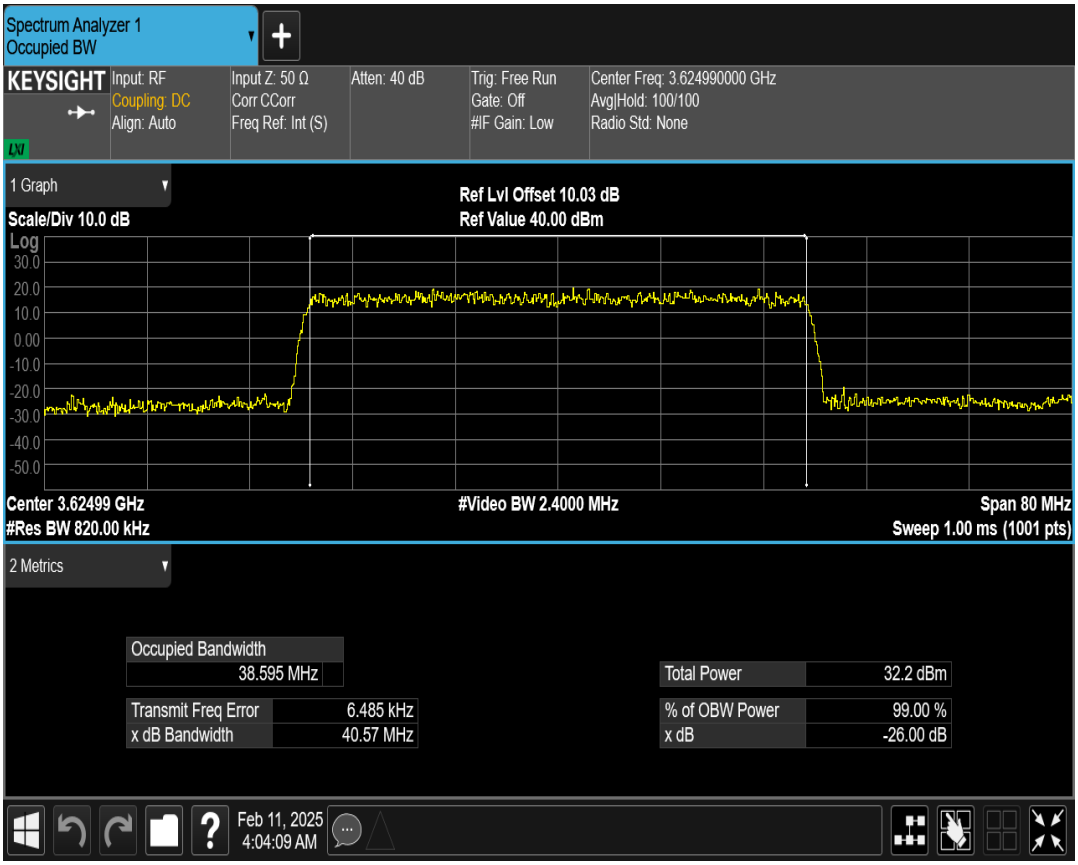
n77(3550-3700) SCS=15kHz DFT_BPSK BW=40MHz Channel=641666 RB=216@0



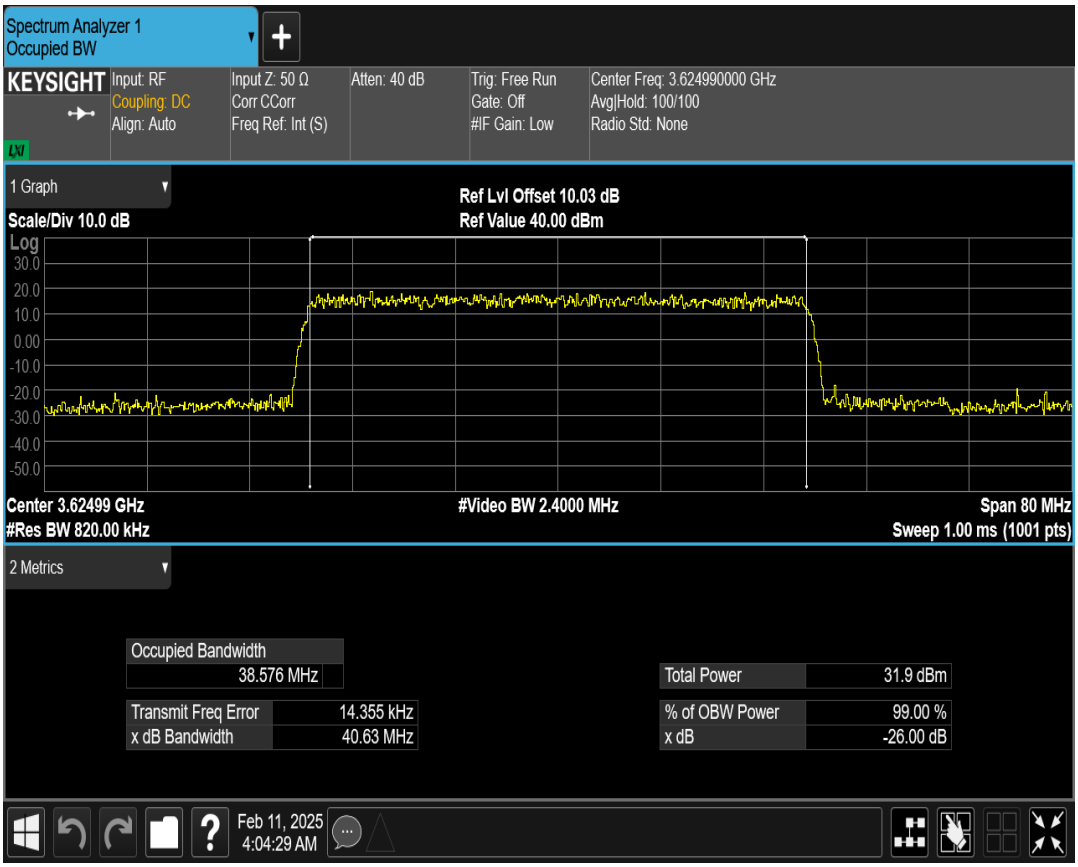
n77(3550-3700) SCS=15kHz DFT_QPSK BW=40MHz Channel=641666 RB=216@0



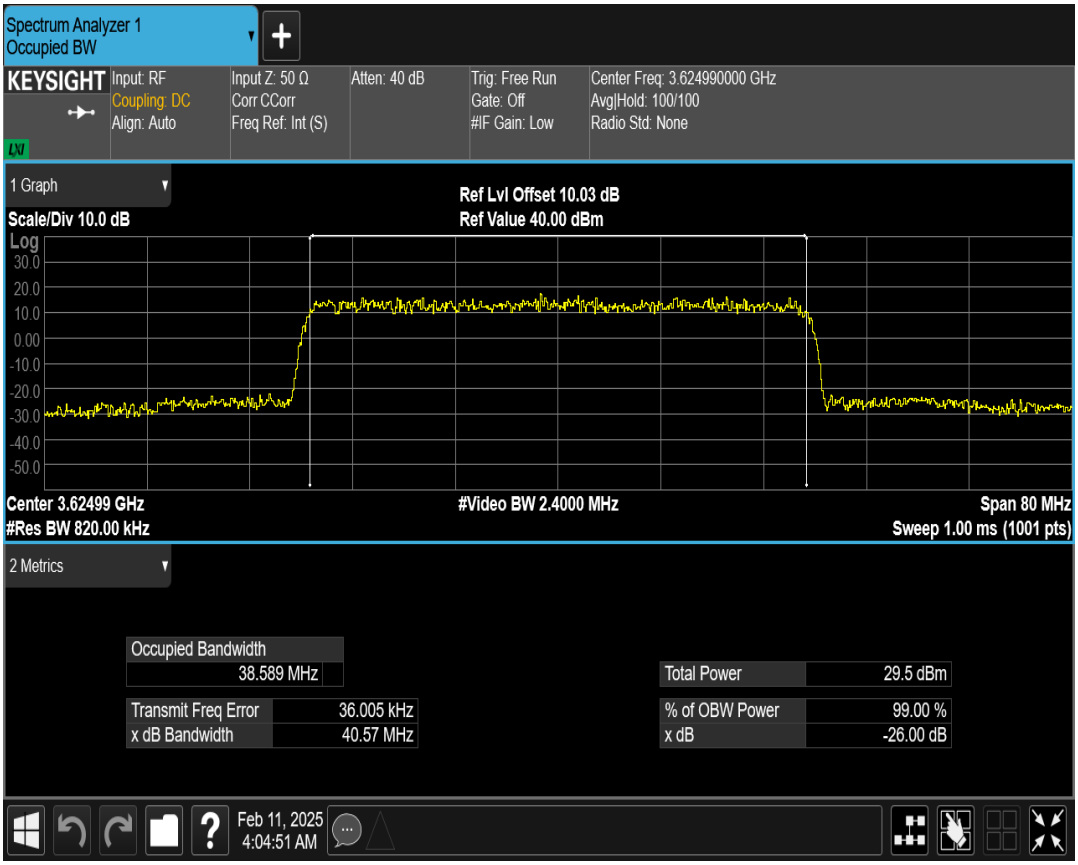
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=40MHz Channel=641666 RB=216@0



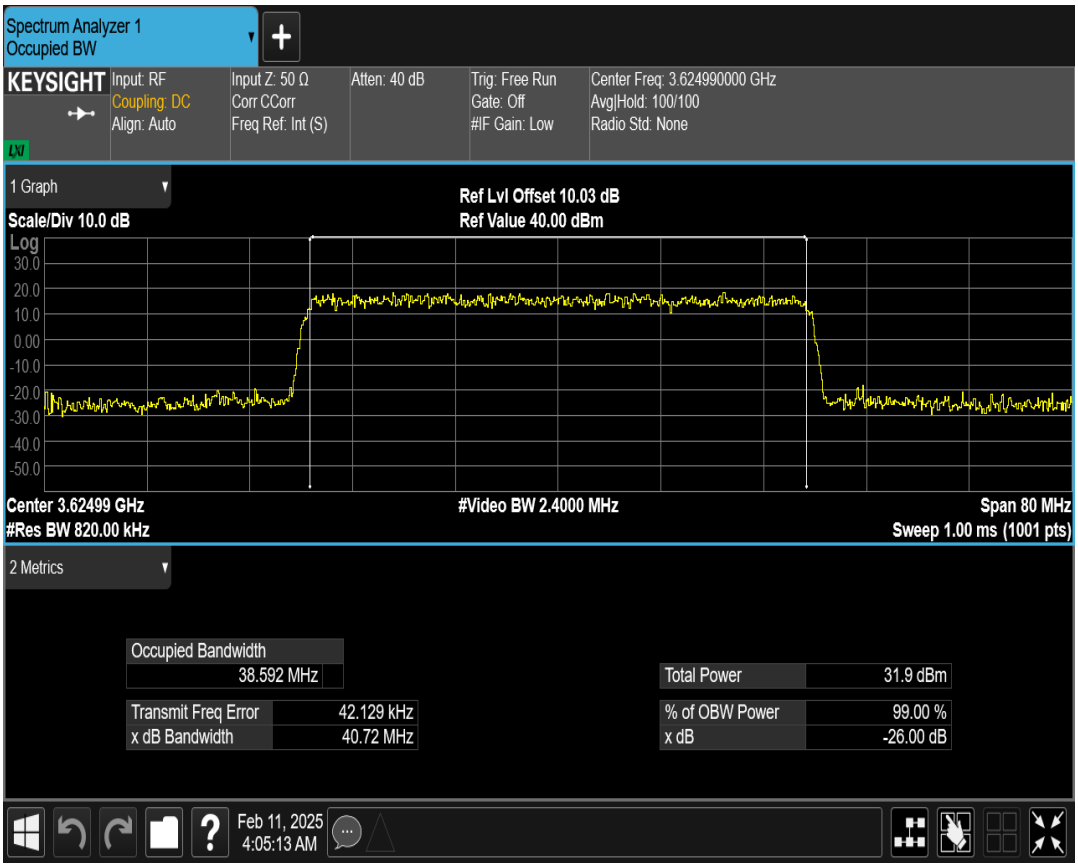
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=40MHz Channel=641666 RB=216@0



n77(3550-3700) SCS=15kHz DFT_QAM256 BW=40MHz Channel=641666 RB=216@0



n77(3550-3700) SCS=15kHz CP_QPSK BW=40MHz Channel=641666 RB=216@0



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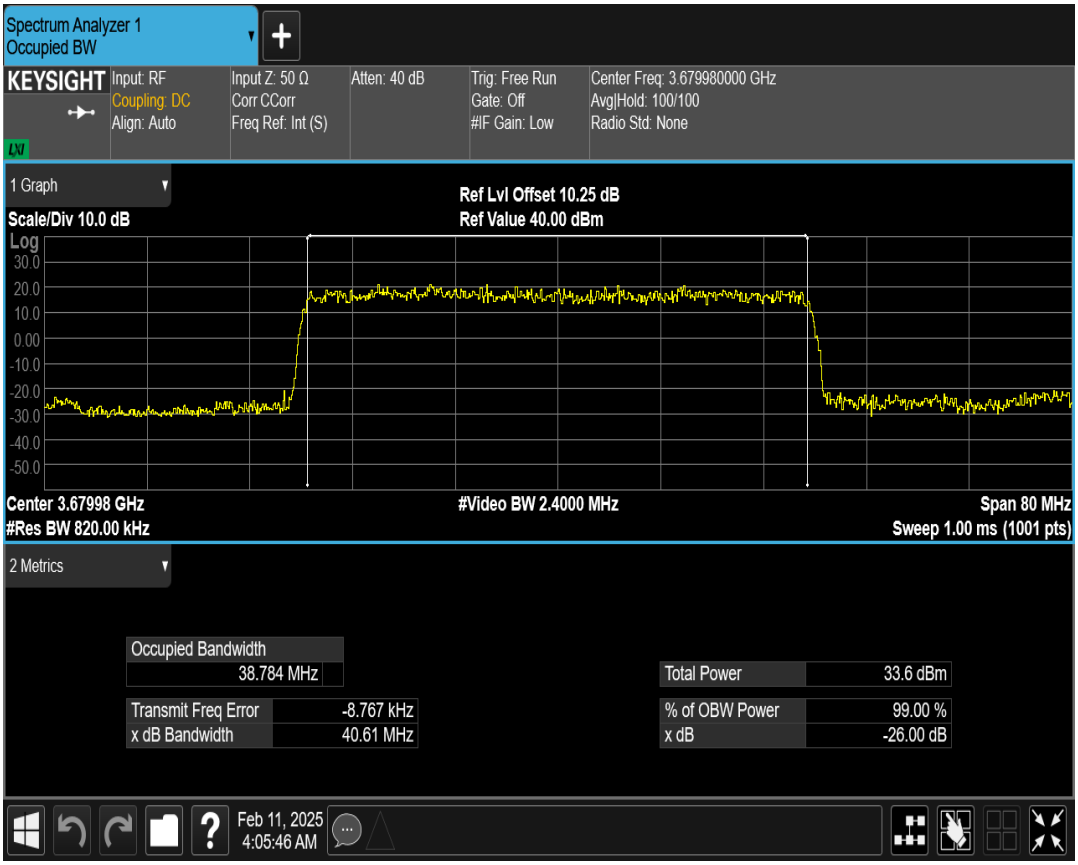
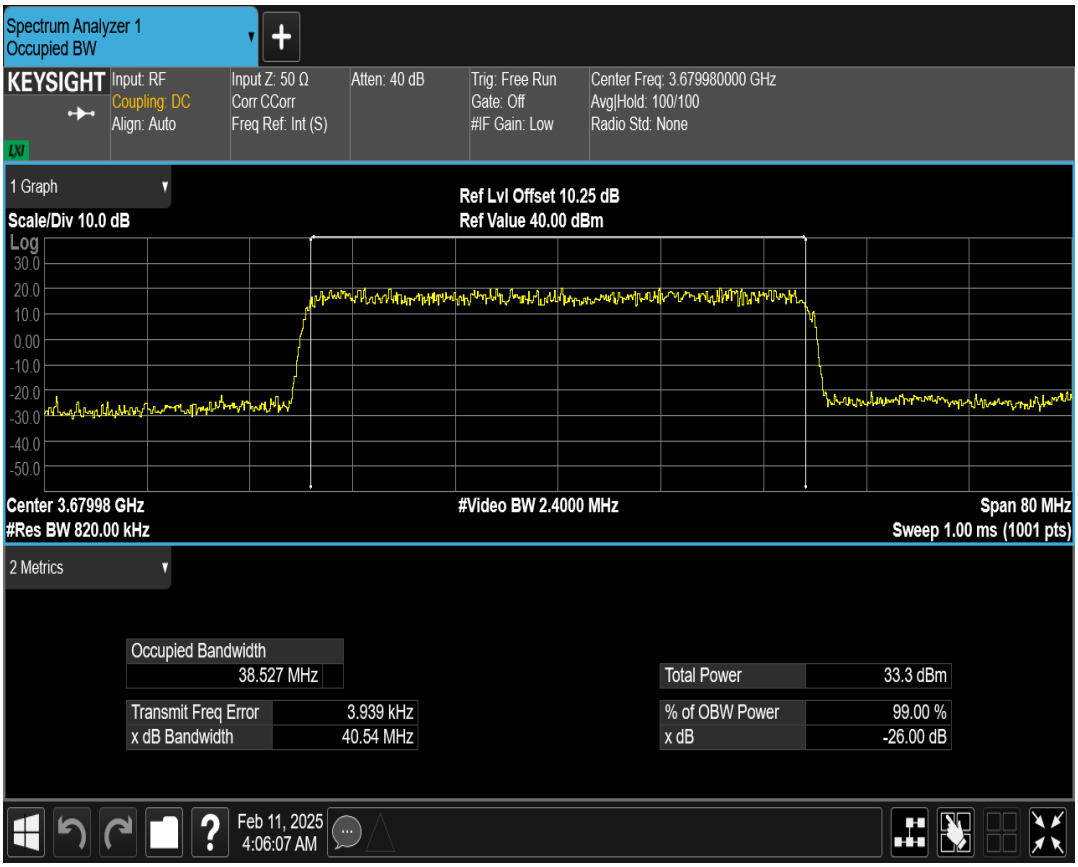
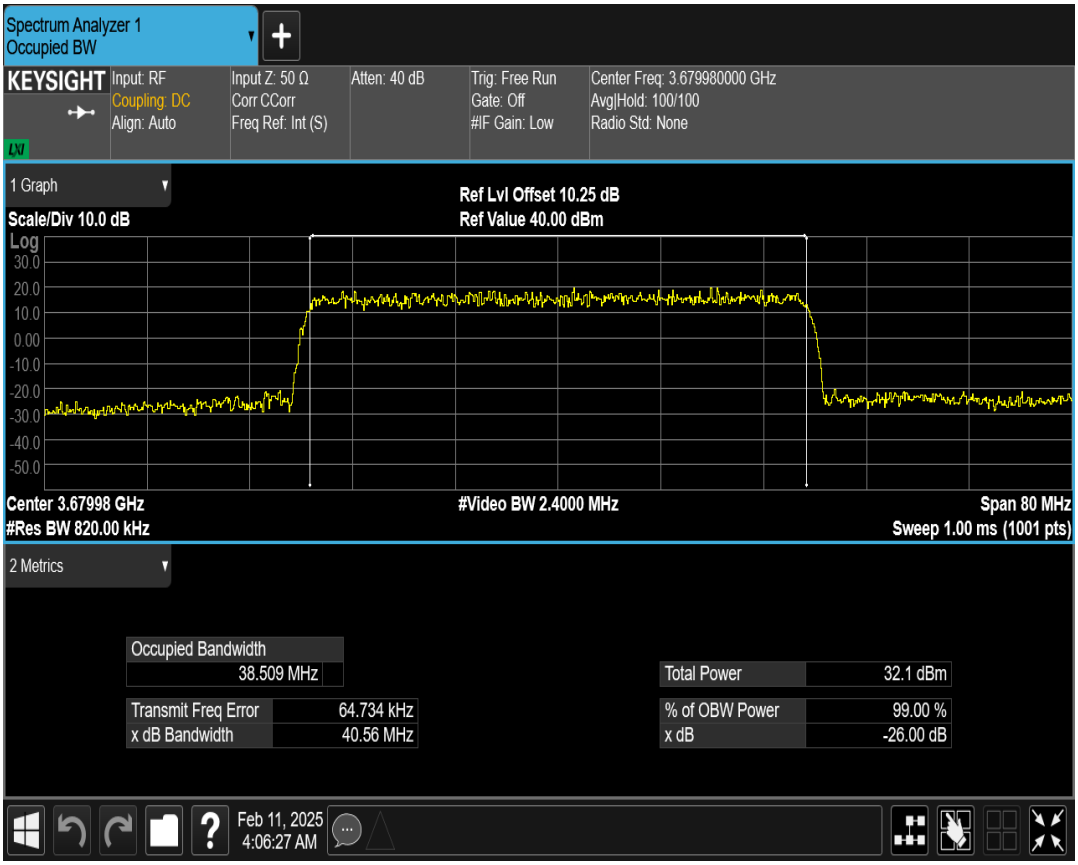


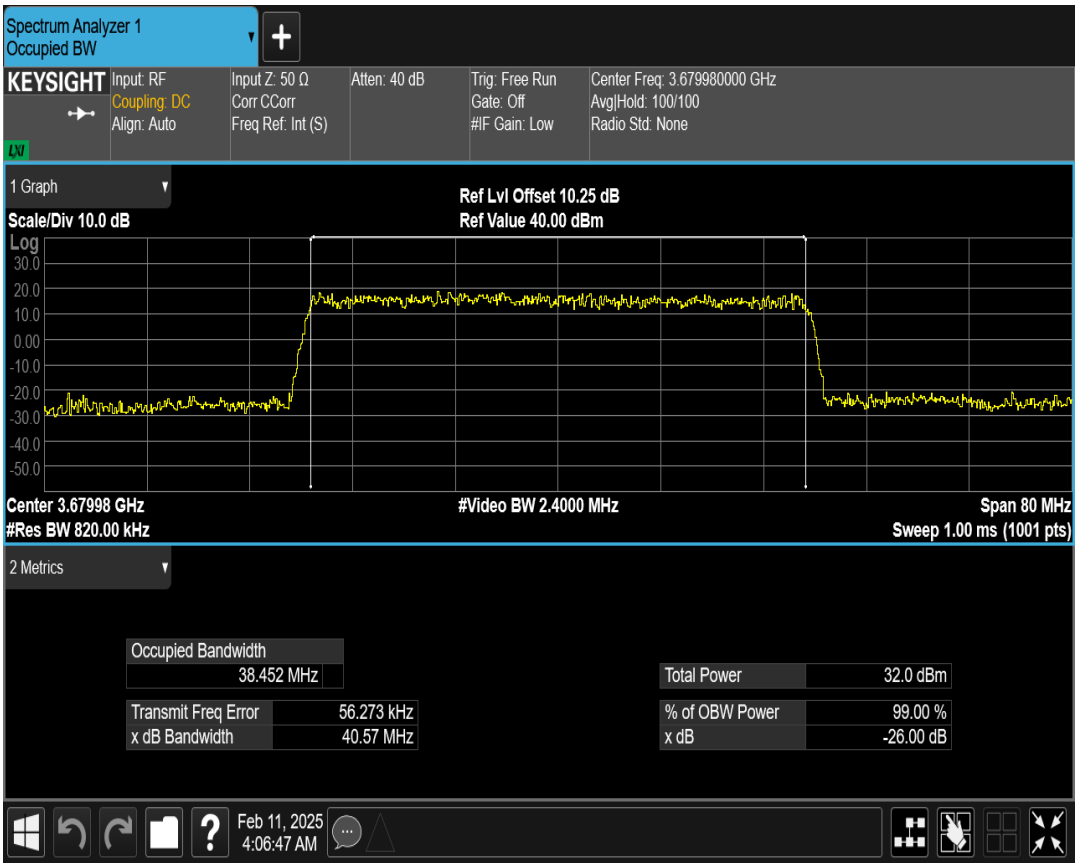
n77(3550-3700) SCS=15kHz DFT_QPSK BW=40MHz Channel=645332 RB=216@0



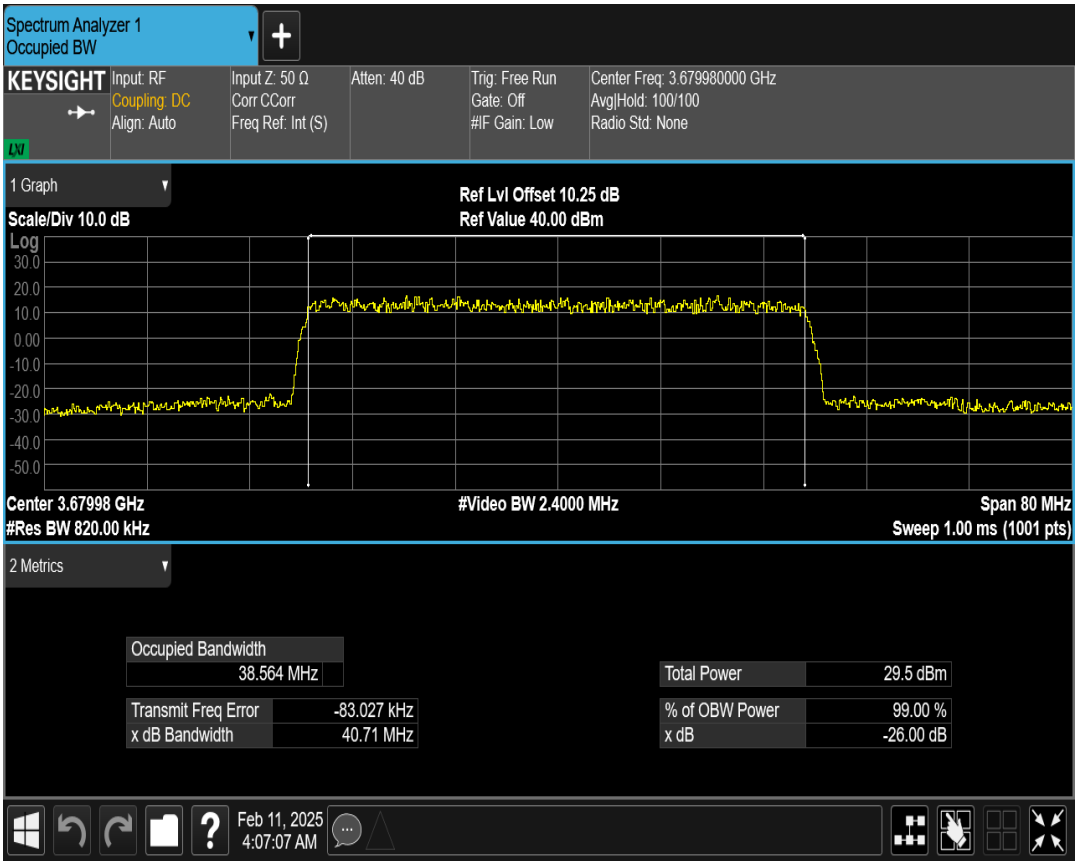
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=40MHz Channel=645332 RB=216@0



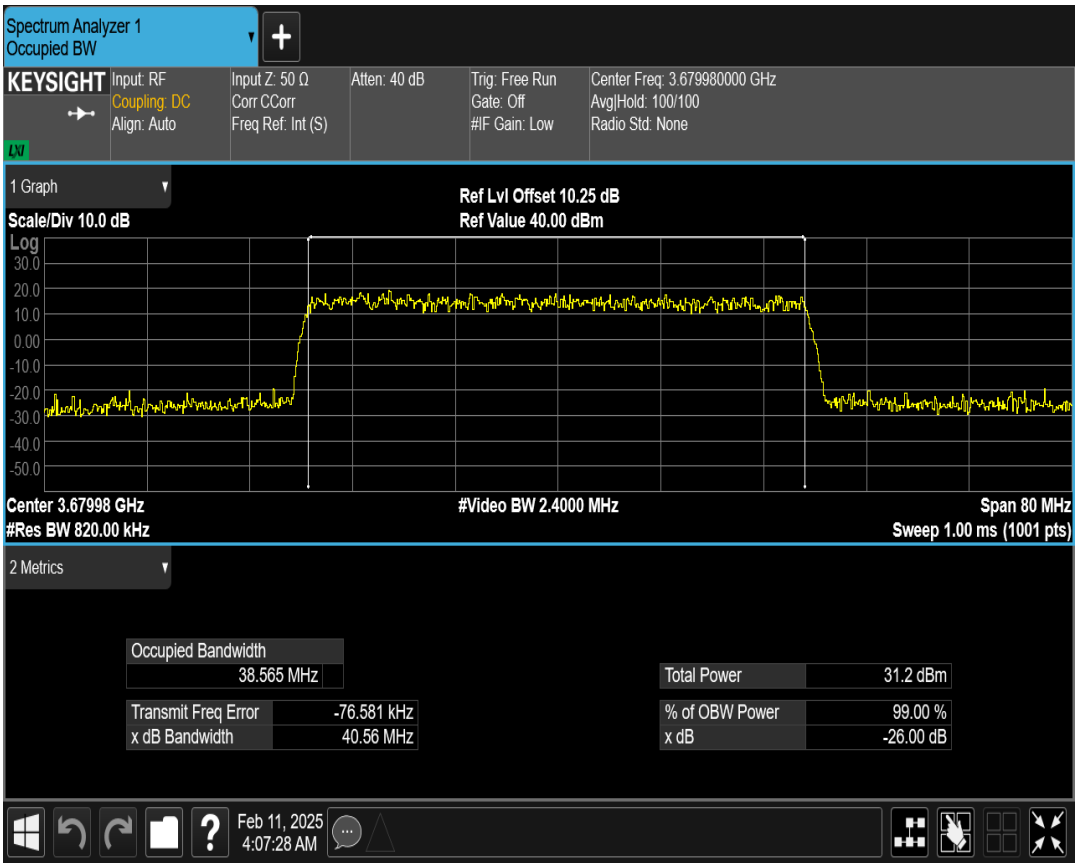
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=40MHz Channel=645332 RB=216@0



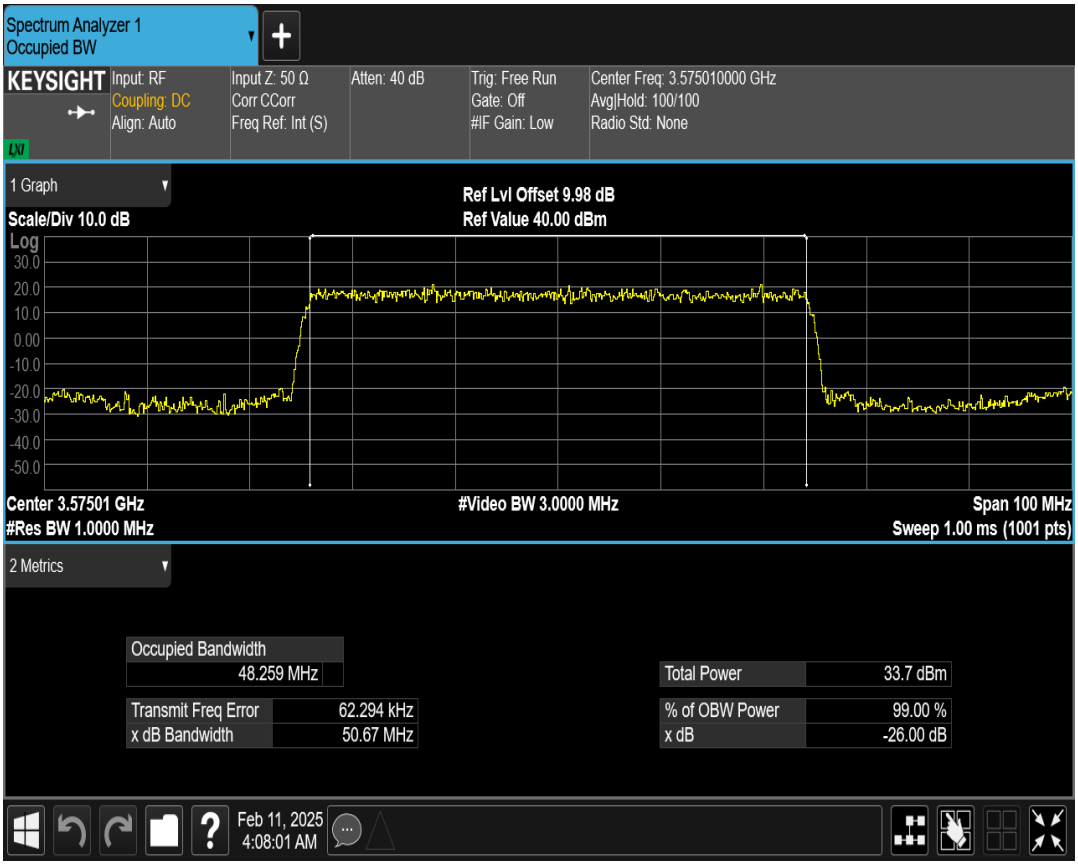
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=40MHz Channel=645332 RB=216@0



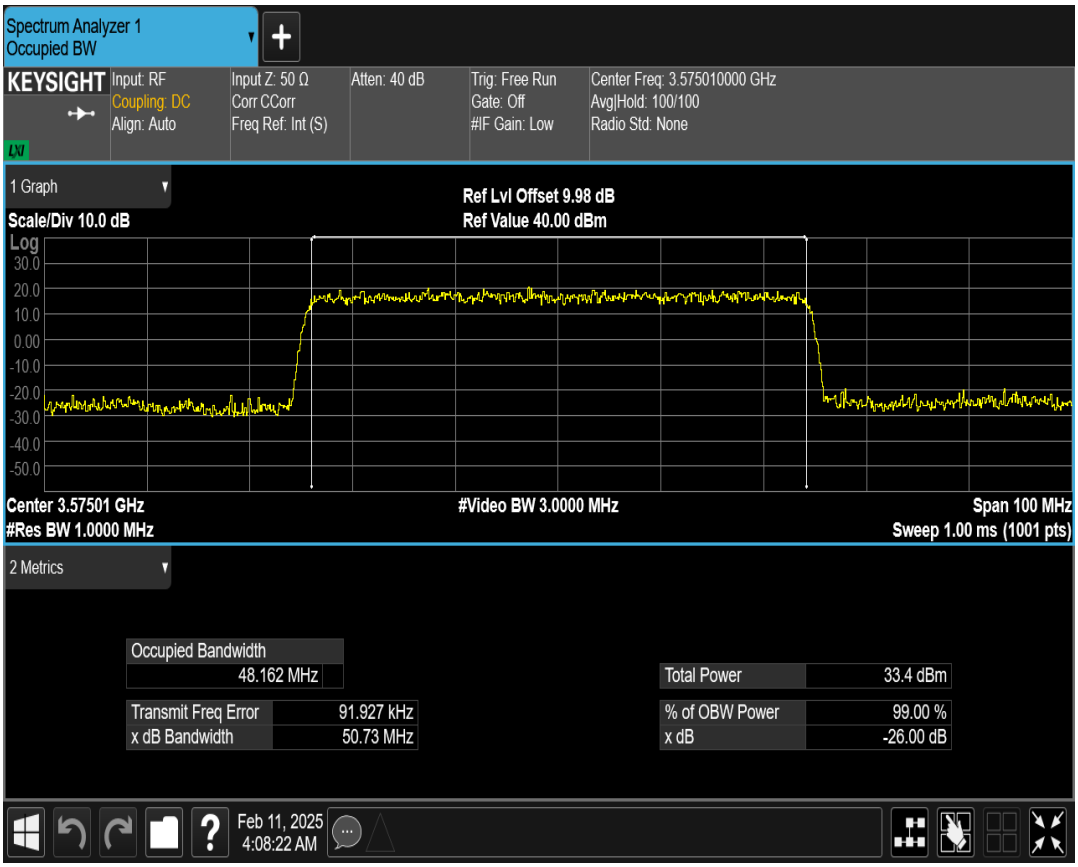
n77(3550-3700) SCS=15kHz CP_QPSK BW=40MHz Channel=645332 RB=216@0



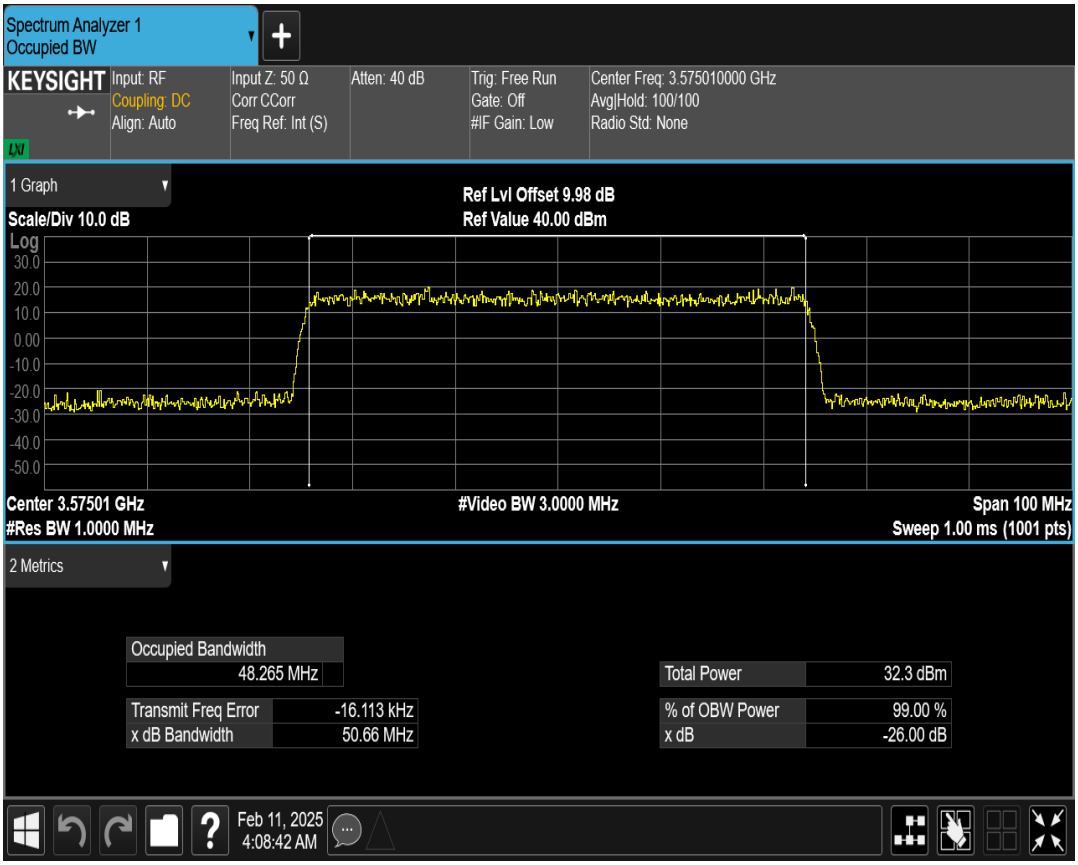
n77(3550-3700) SCS=15kHz DFT_BPSK BW=50MHz Channel=638334 RB=270@0



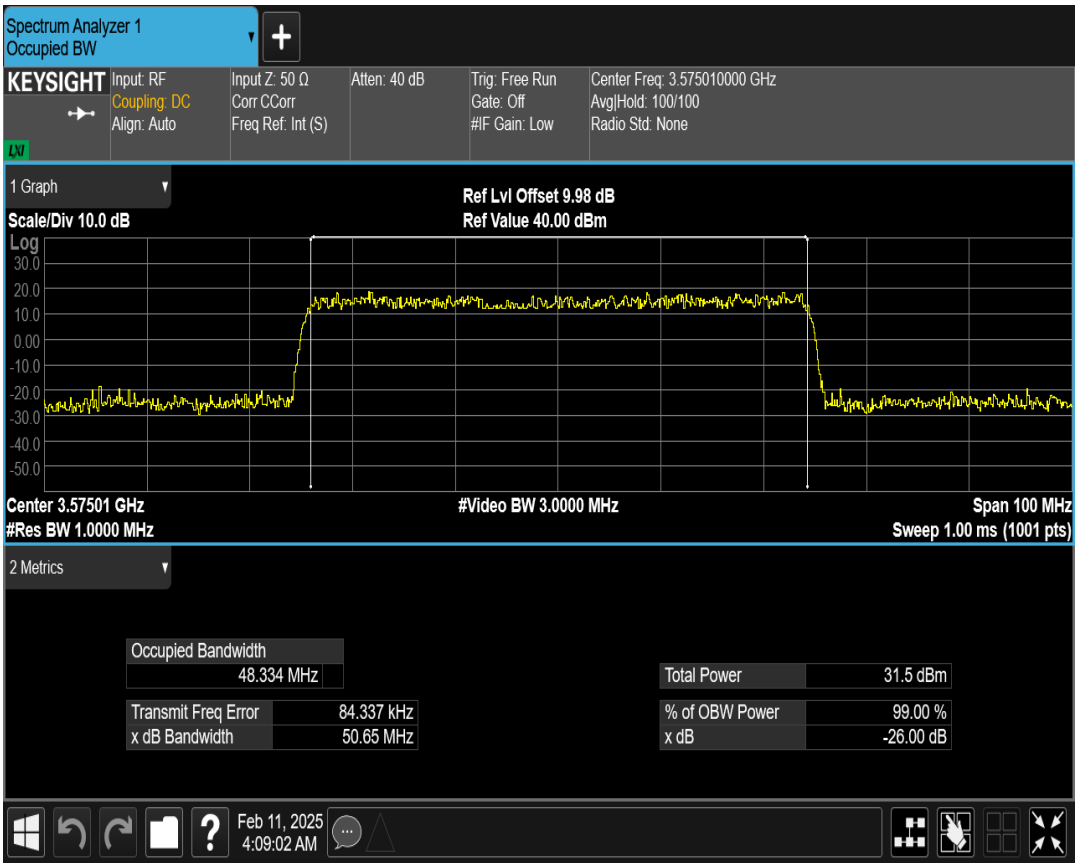
n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=638334 RB=270@0



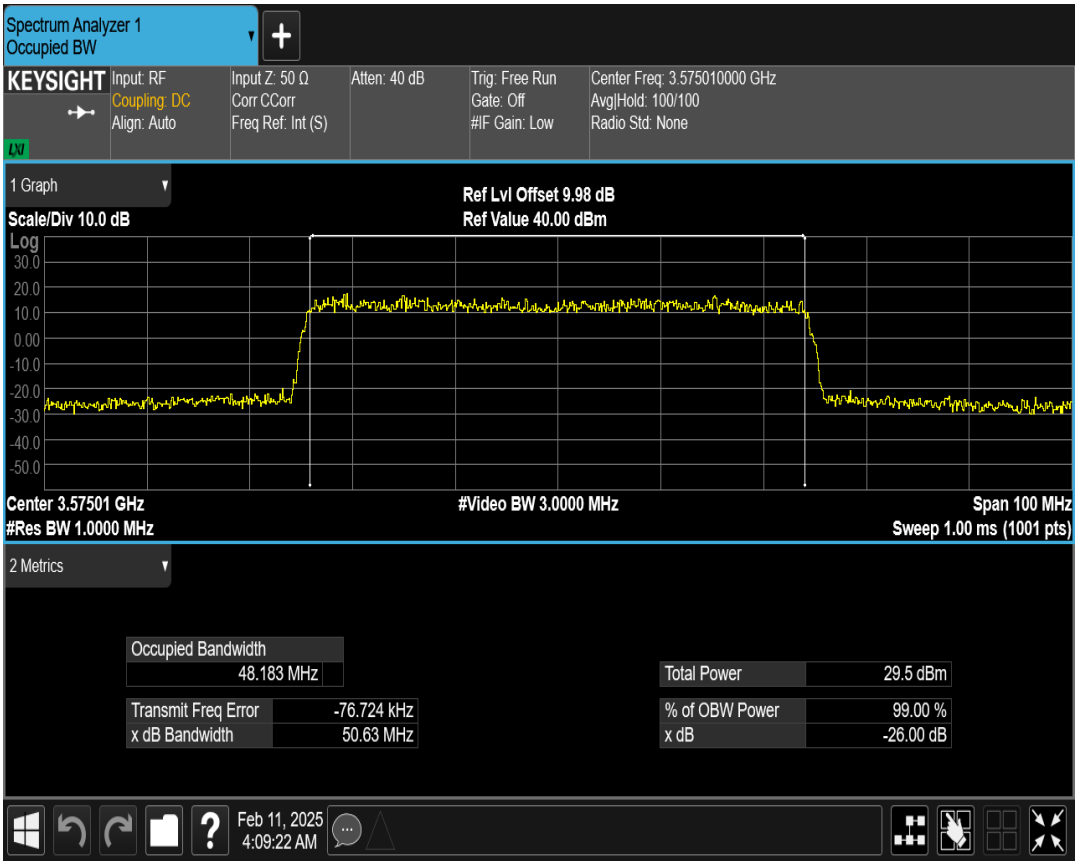
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=50MHz Channel=638334 RB=270@0



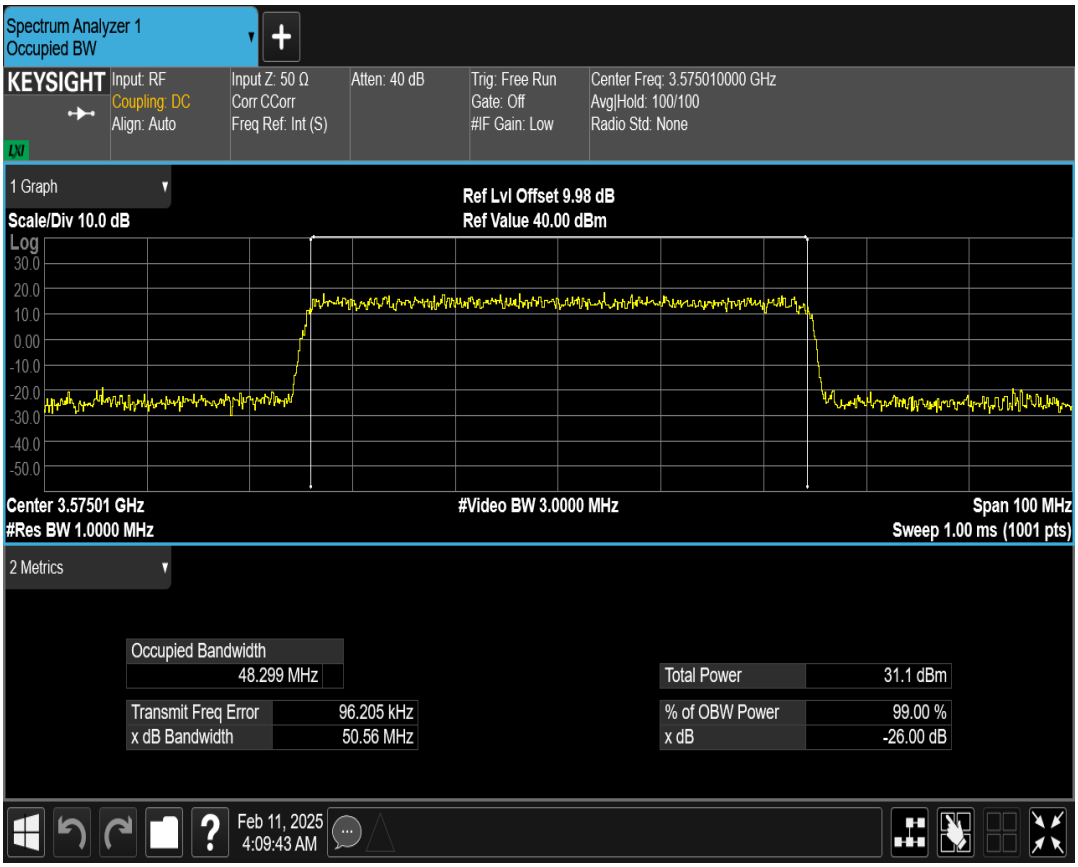
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=50MHz Channel=638334 RB=270@0



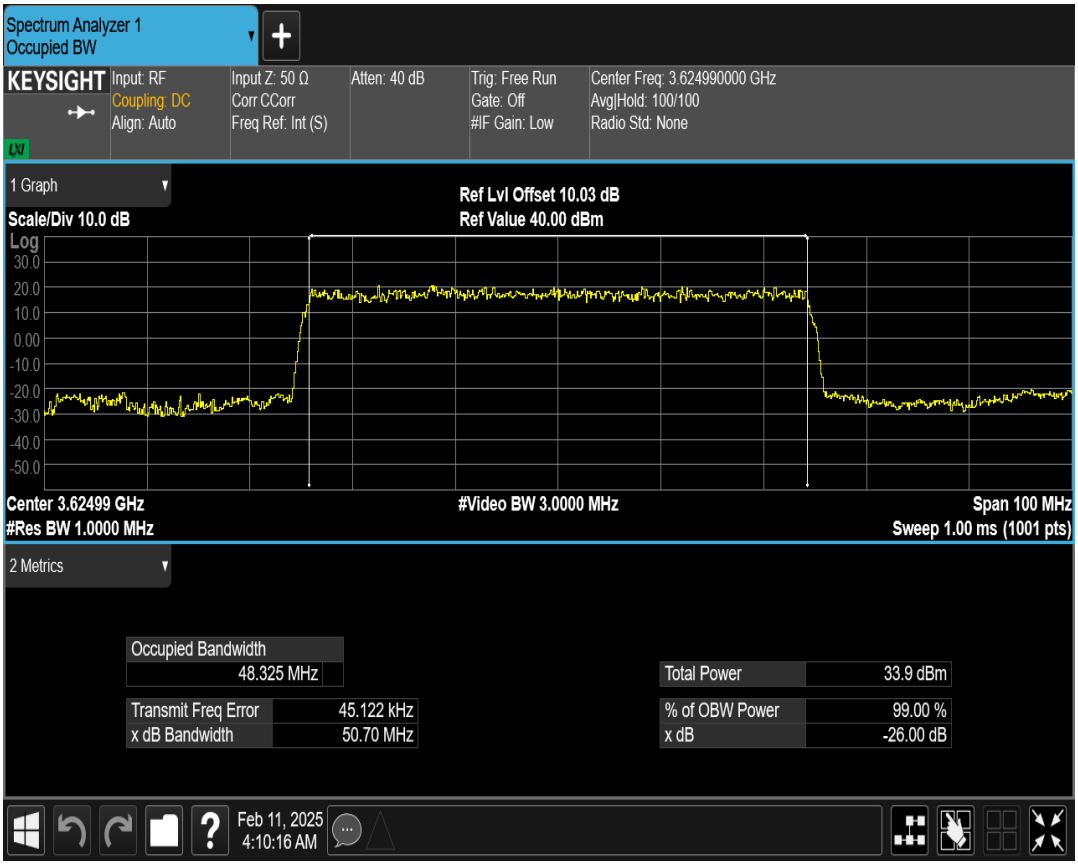
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=50MHz Channel=638334 RB=270@0



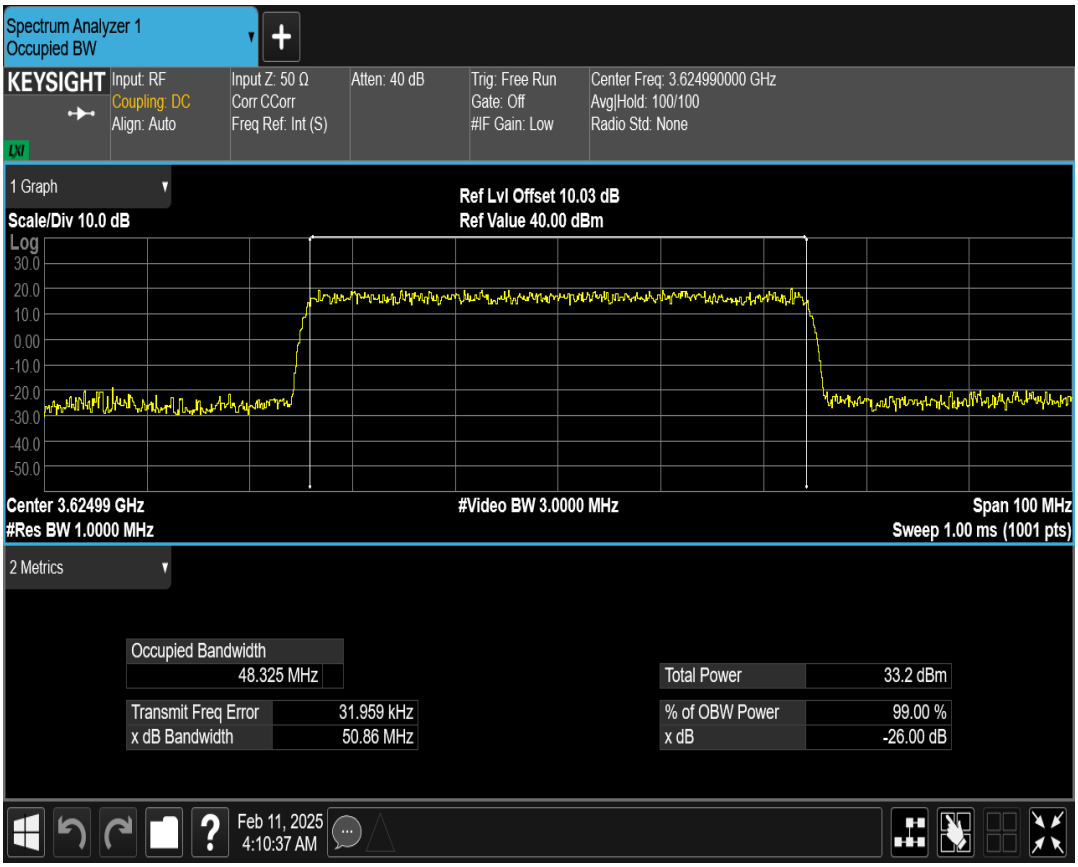
n77(3550-3700) SCS=15kHz CP_QPSK BW=50MHz Channel=638334 RB=270@0



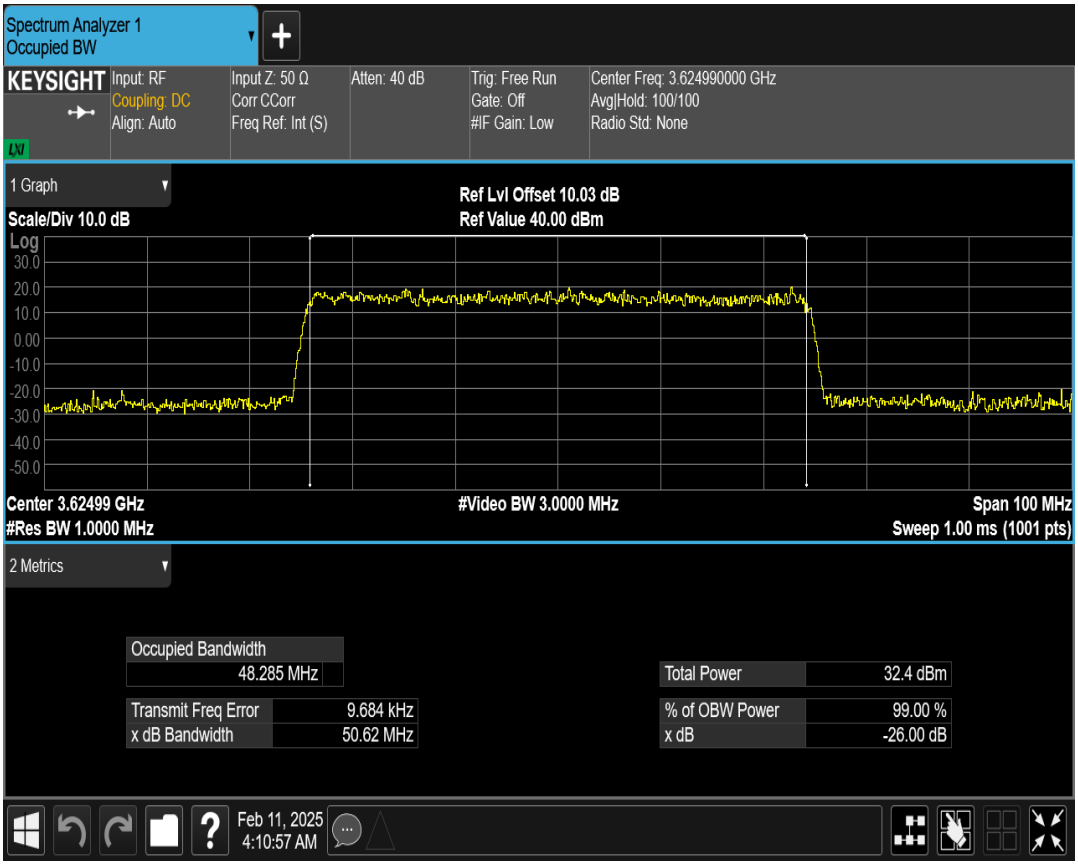
n77(3550-3700) SCS=15kHz DFT_BPSK BW=50MHz Channel=641666 RB=270@0



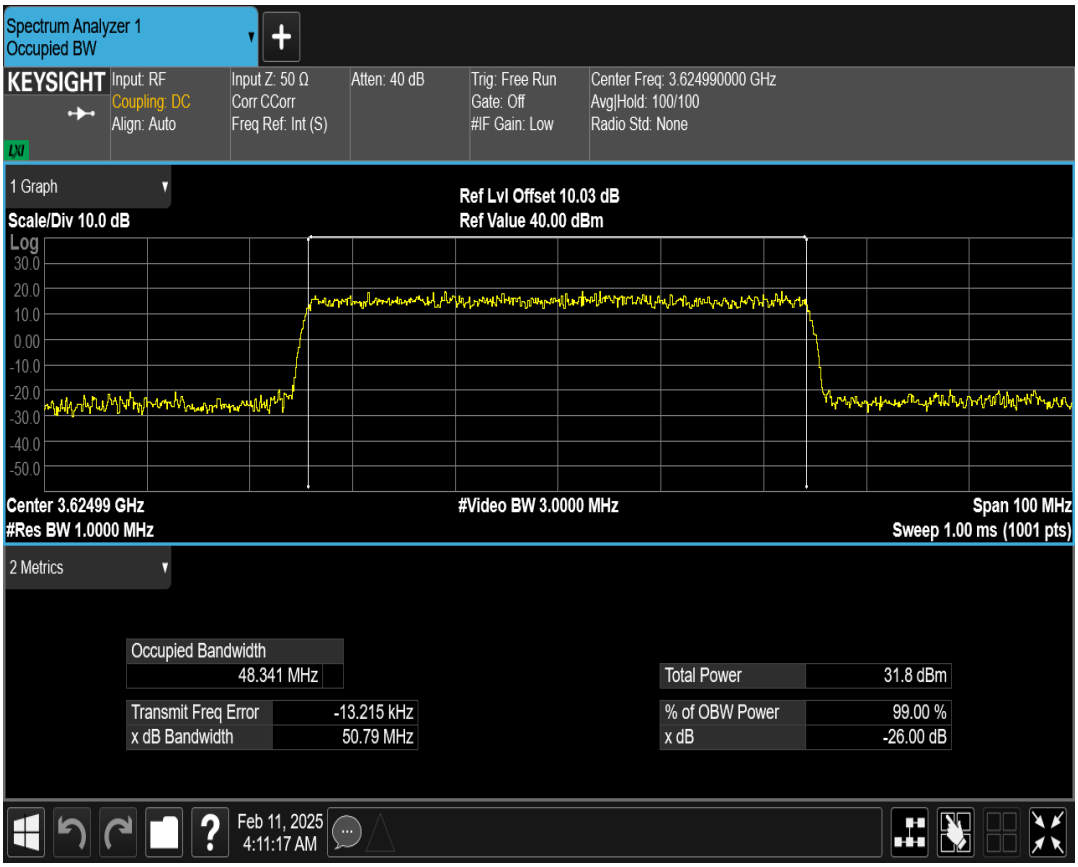
n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=641666 RB=270@0



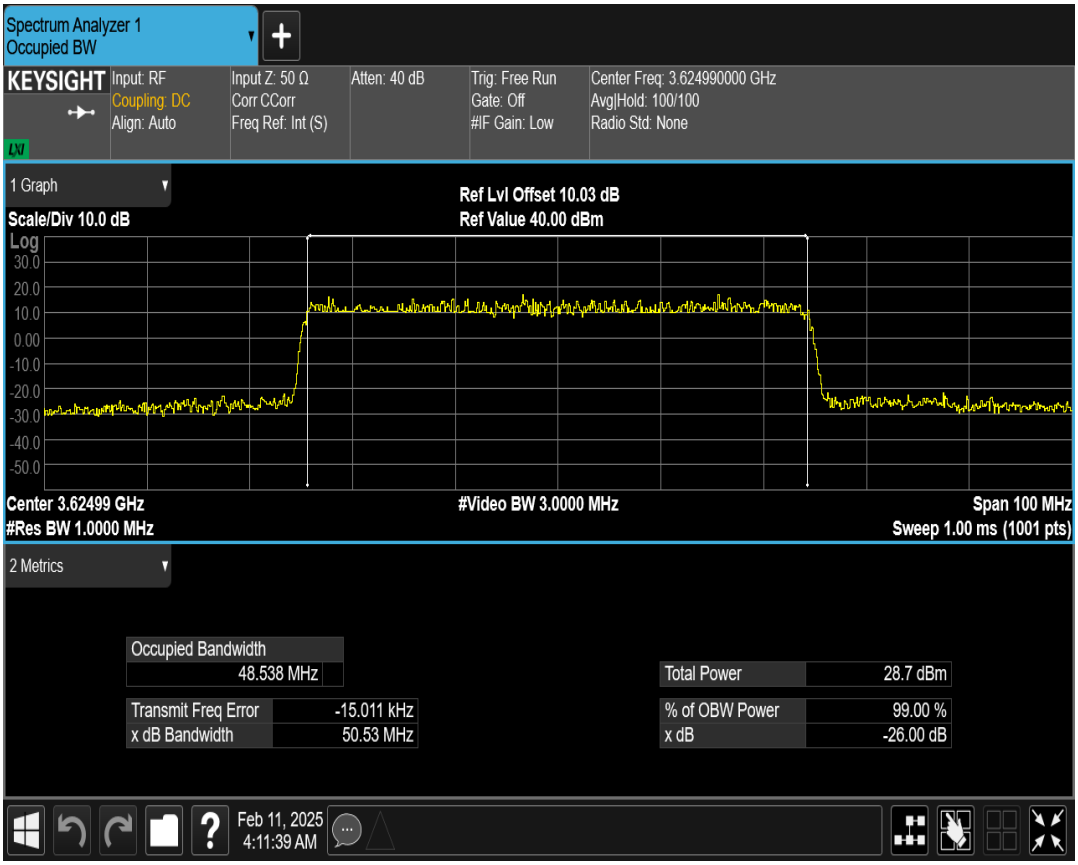
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=50MHz Channel=641666 RB=270@0



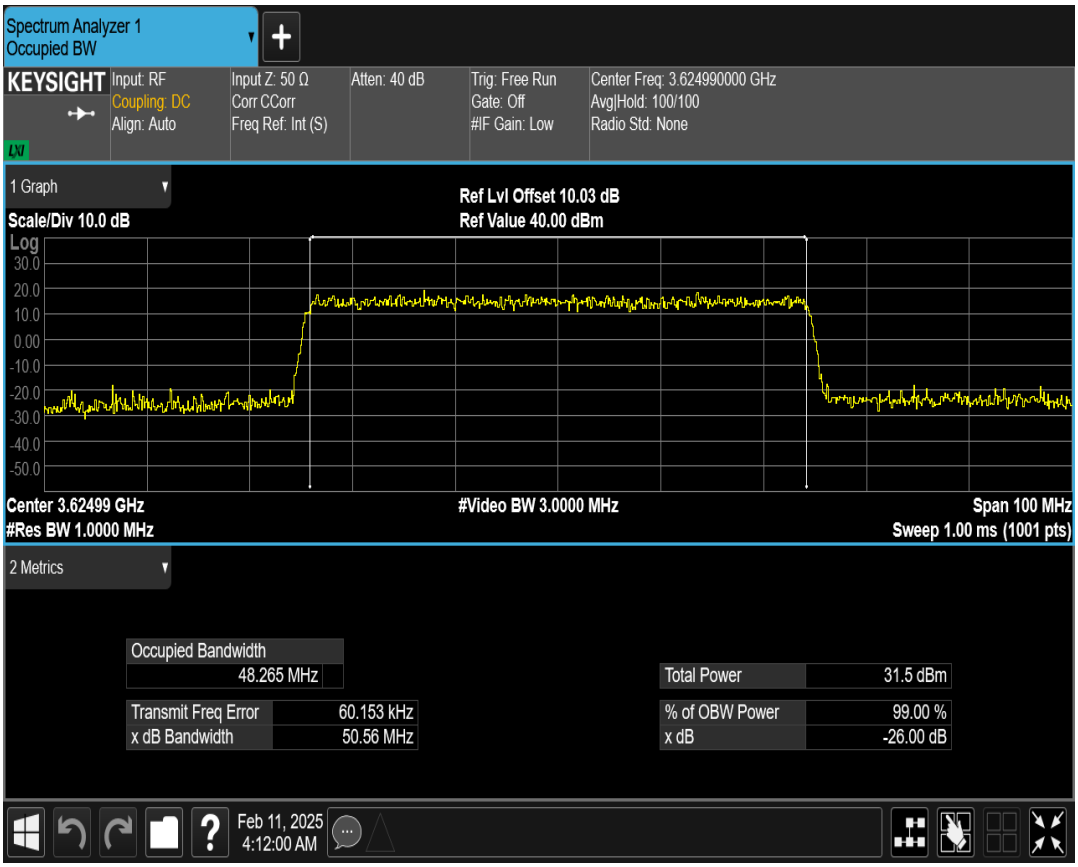
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=50MHz Channel=641666 RB=270@0



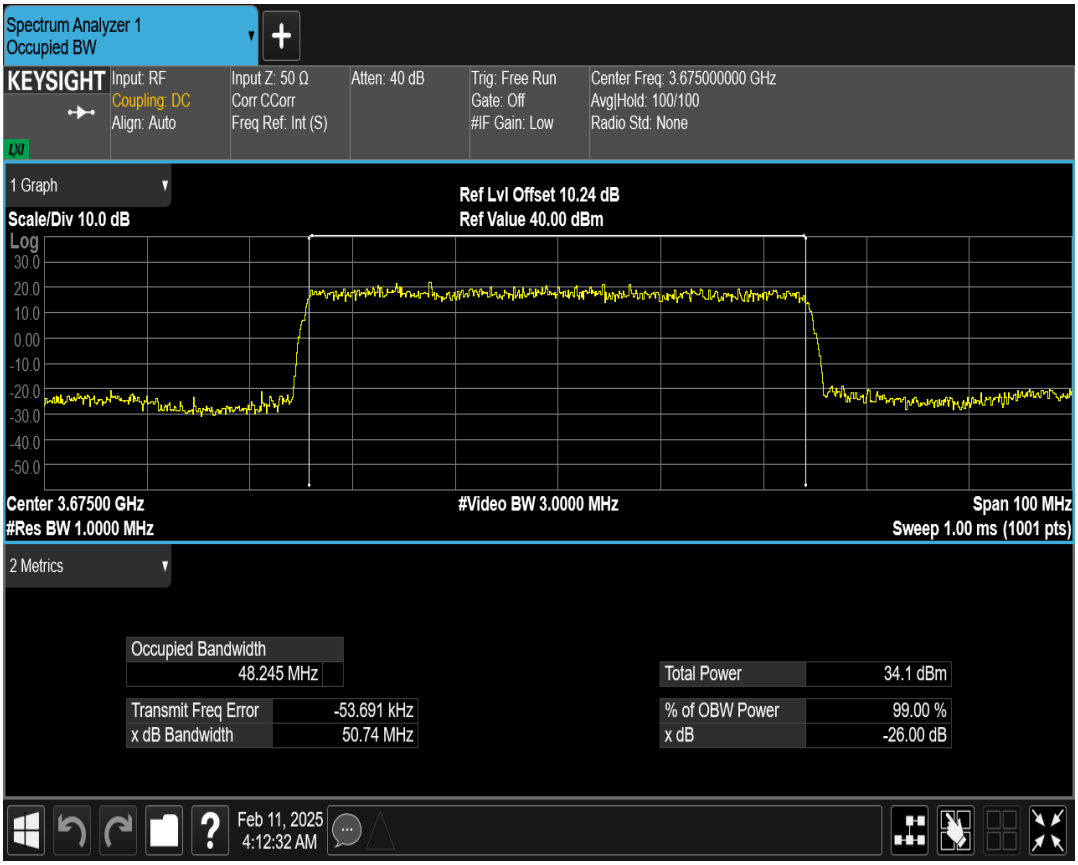
n77(3550-3700) SCS=15kHz DFT_QAM256 BW=50MHz Channel=641666 RB=270@0



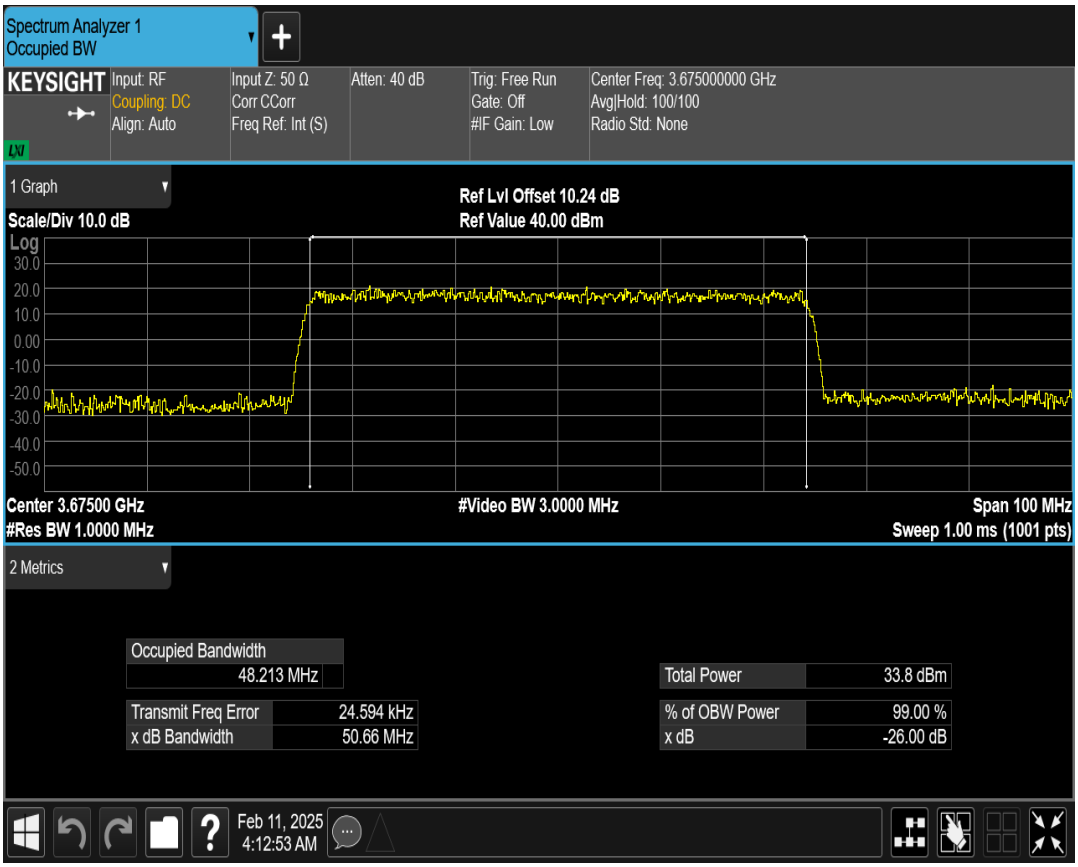
n77(3550-3700) SCS=15kHz CP_QPSK BW=50MHz Channel=641666 RB=270@0



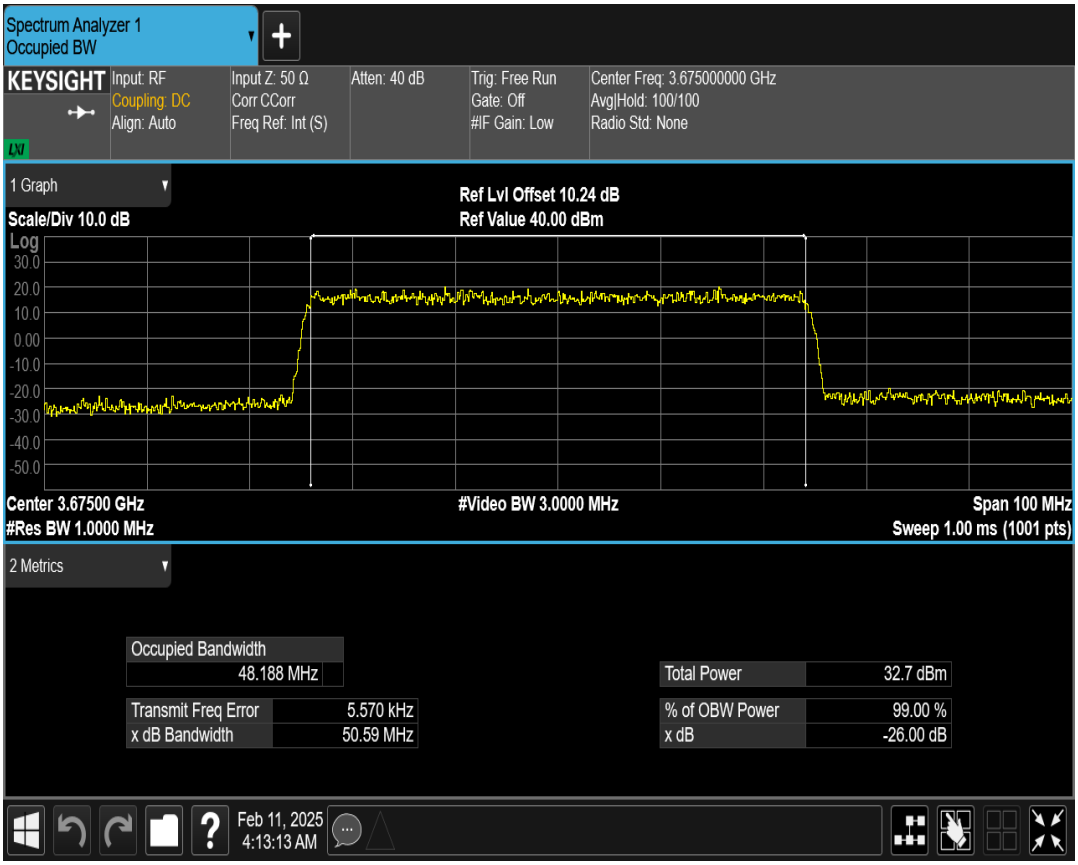
n77(3550-3700) SCS=15kHz DFT_BPSK BW=50MHz Channel=645000 RB=270@0



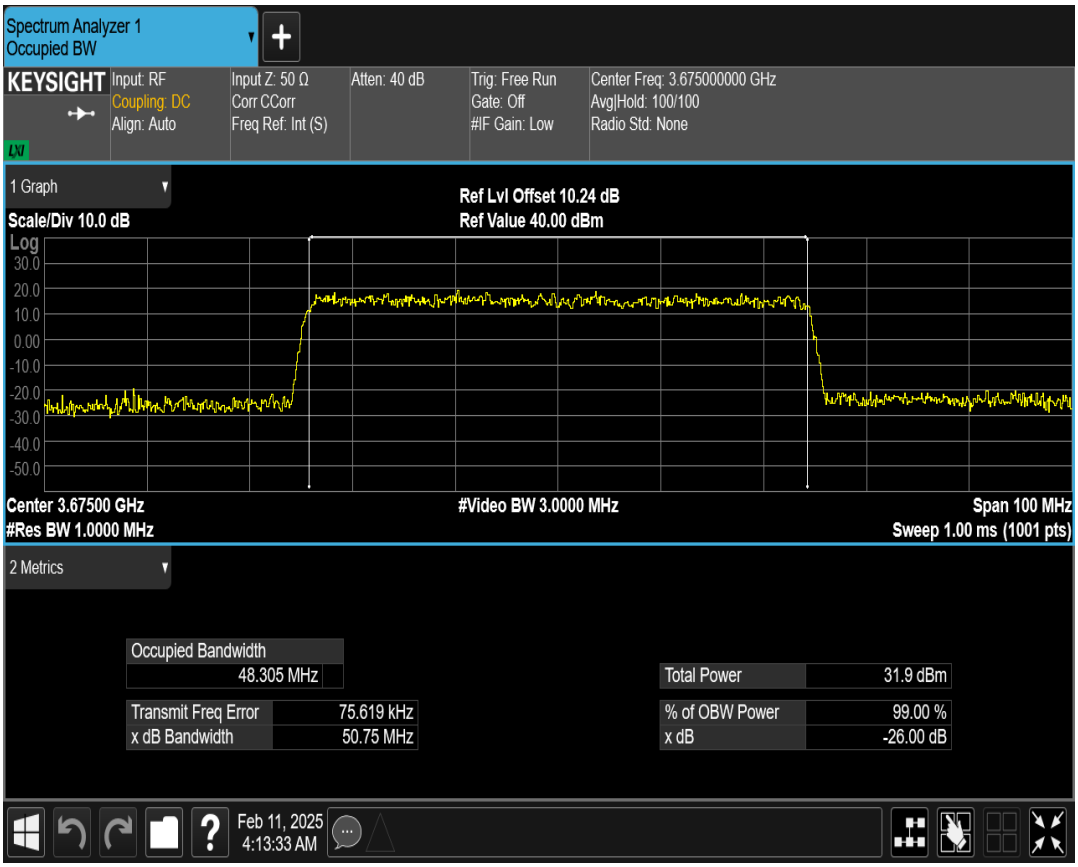
n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=645000 RB=270@0



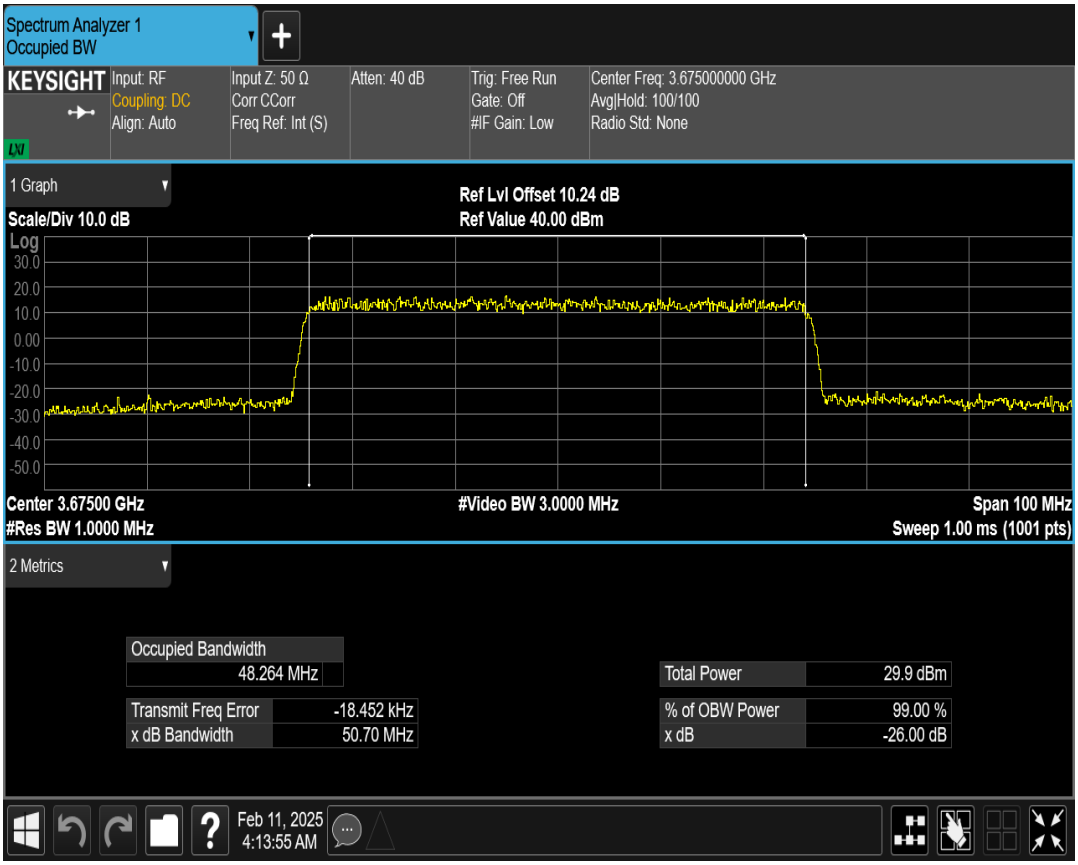
n77(3550-3700) SCS=15kHz DFT_QAM16 BW=50MHz Channel=645000 RB=270@0



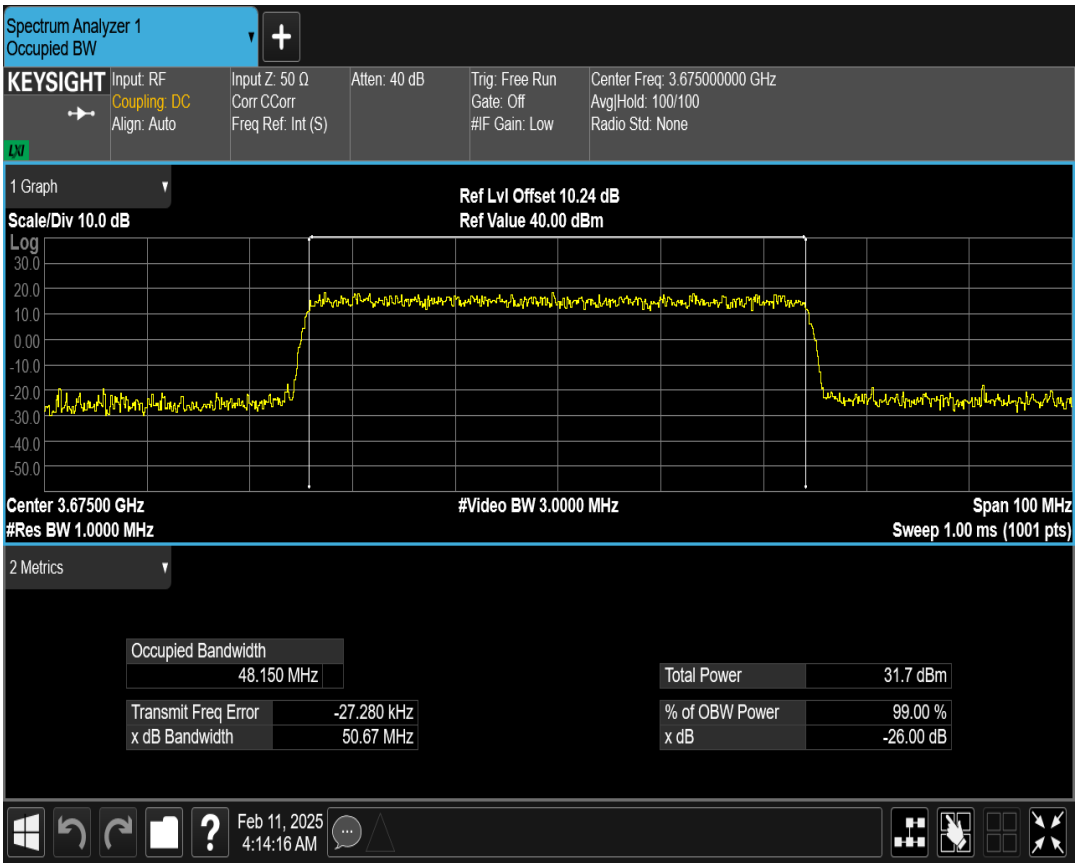
n77(3550-3700) SCS=15kHz DFT_QAM64 BW=50MHz Channel=645000 RB=270@0



n77(3550-3700) SCS=15kHz DFT_QAM256 BW=50MHz Channel=645000 RB=270@0



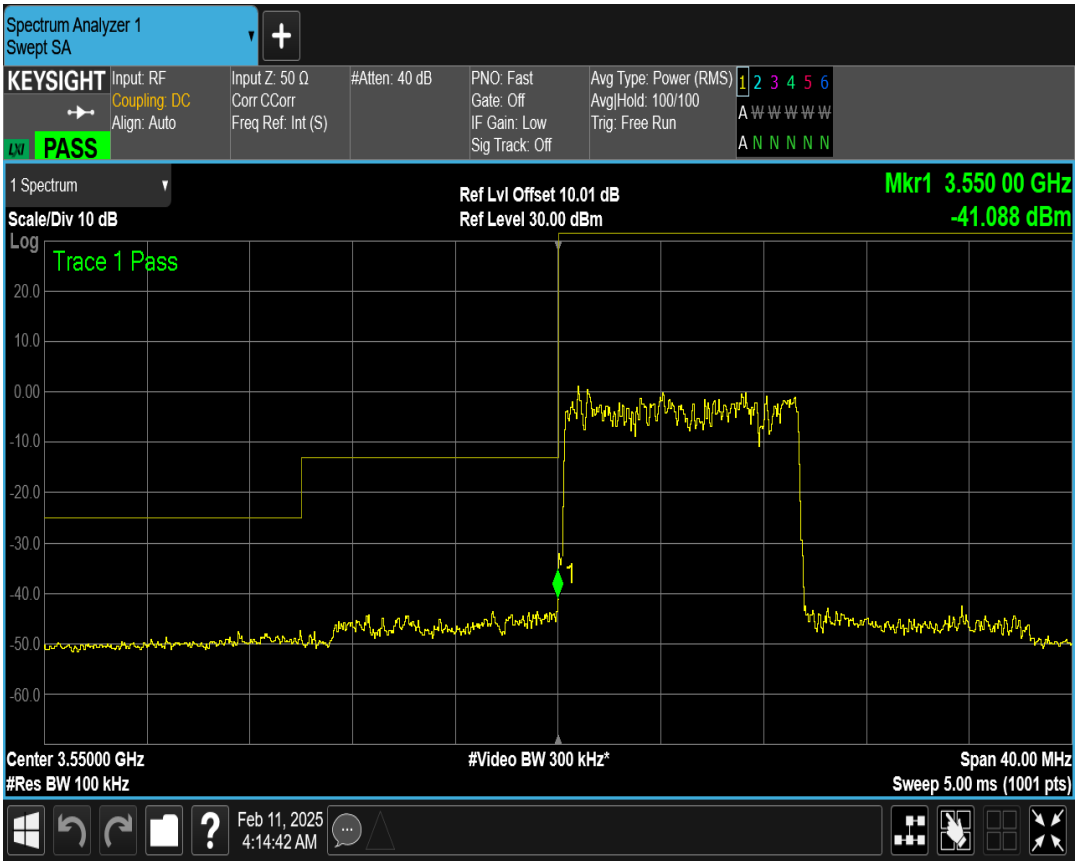
n77(3550-3700) SCS=15kHz CP_QPSK BW=50MHz Channel=645000 RB=270@0



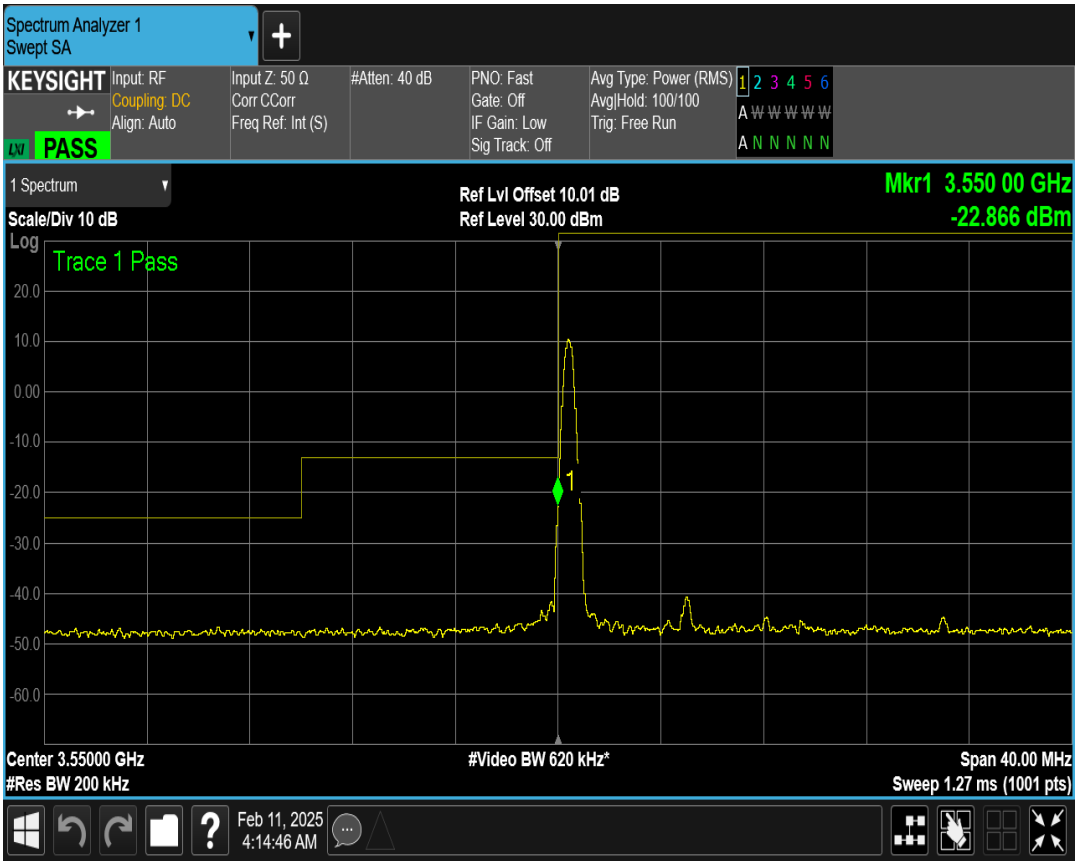
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3550-3700)	15	10	637000	50@0	DFT_QPSK	3550.00	-41.09	-13	PASS
n77(3550-3700)	15	10	637000	1@0	DFT_QPSK	3550.00	-22.87	-13	PASS
n77(3550-3700)	15	10	646332	50@0	DFT_QPSK	3700.52	-41.76	-13	PASS
n77(3550-3700)	15	10	646332	1@51	DFT_QPSK	3700.00	-18.08	-13	PASS
n77(3550-3700)	15	50	638334	270@0	DFT_QPSK	3550.00	-35.84	-13	PASS
n77(3550-3700)	15	50	638334	1@0	DFT_QPSK	3549.80	-36.46	-13	PASS
n77(3550-3700)	15	50	645000	270@0	DFT_QPSK	3700.00	-21.31	-13	PASS
n77(3550-3700)	15	50	645000	1@269	DFT_QPSK	3700.00	-37.10	-13	PASS

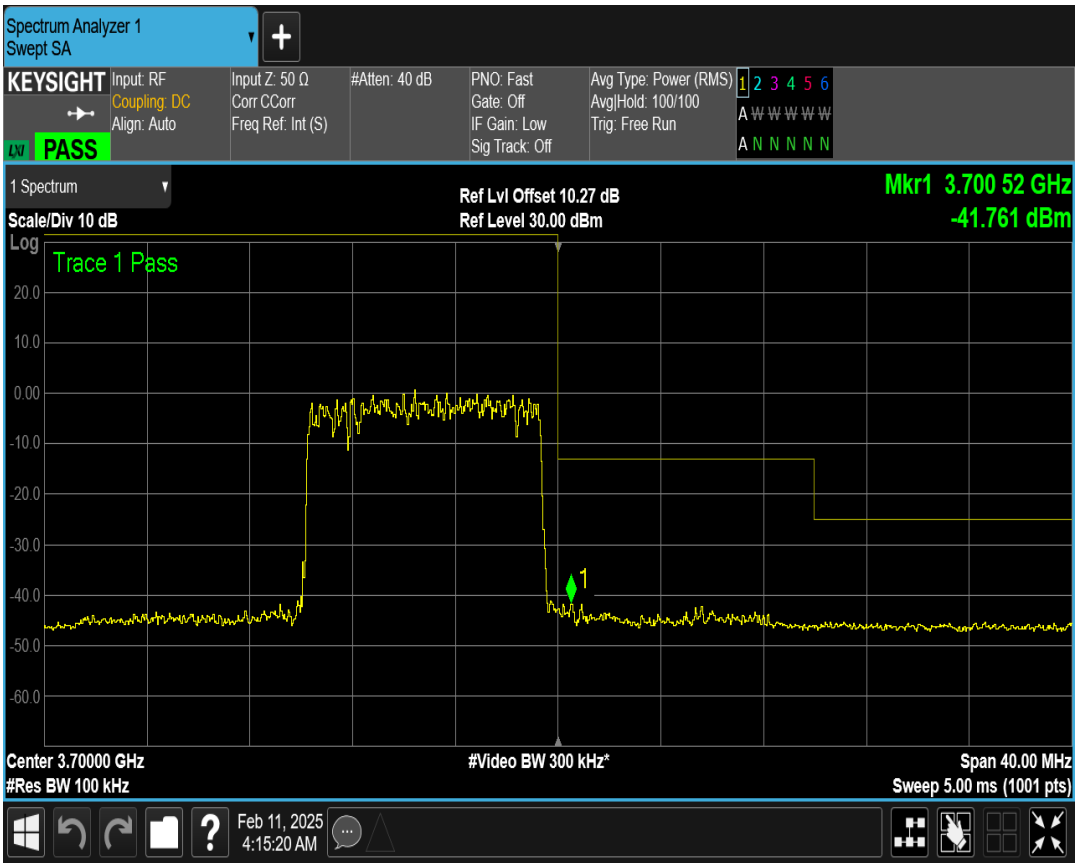
n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=637000 RB=50@0



n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=637000 RB=1@0

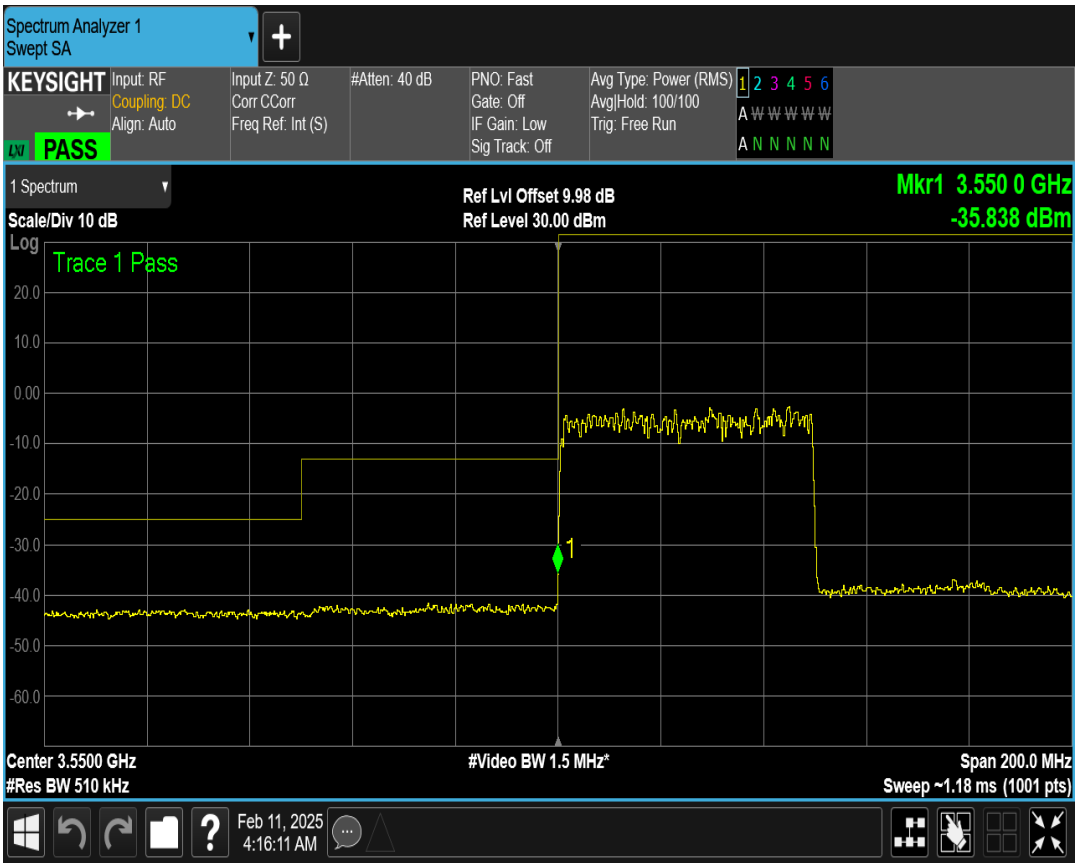


n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=646332 RB=50@0



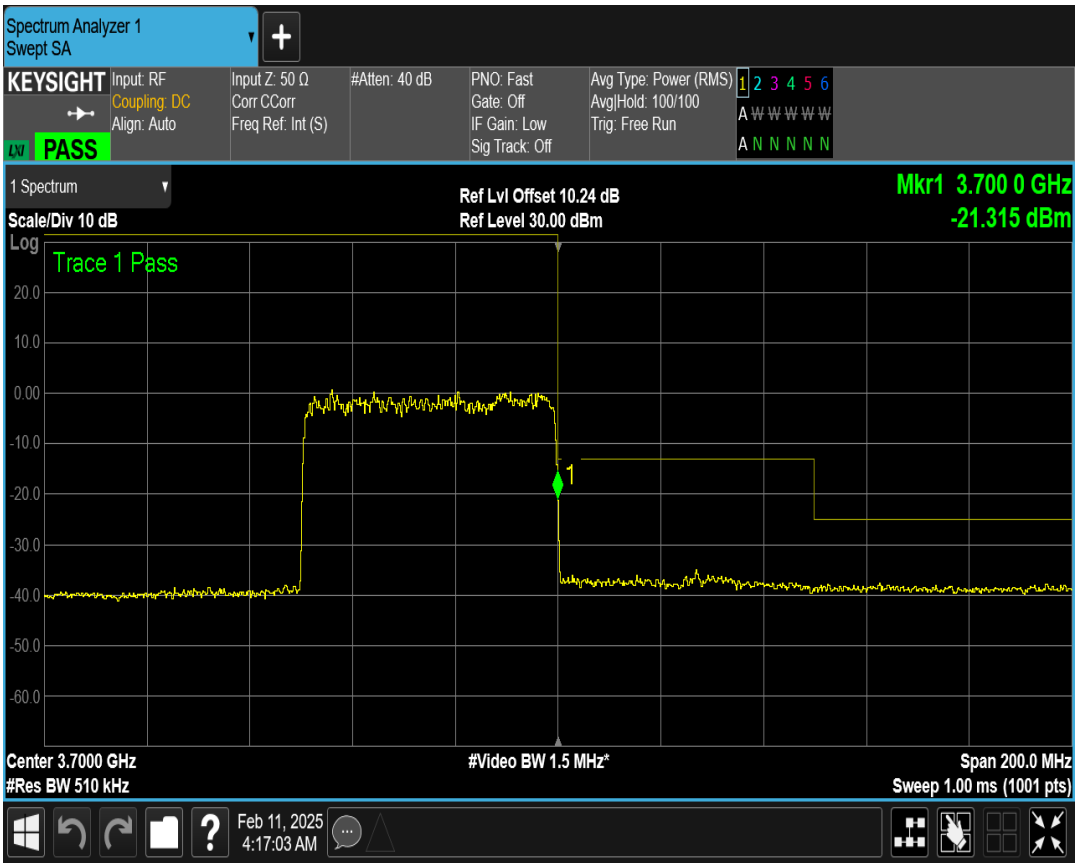
n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=646332 RB=1@51

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=638334 RB=270@0



n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=638334 RB=1@0

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=645000 RB=270@0

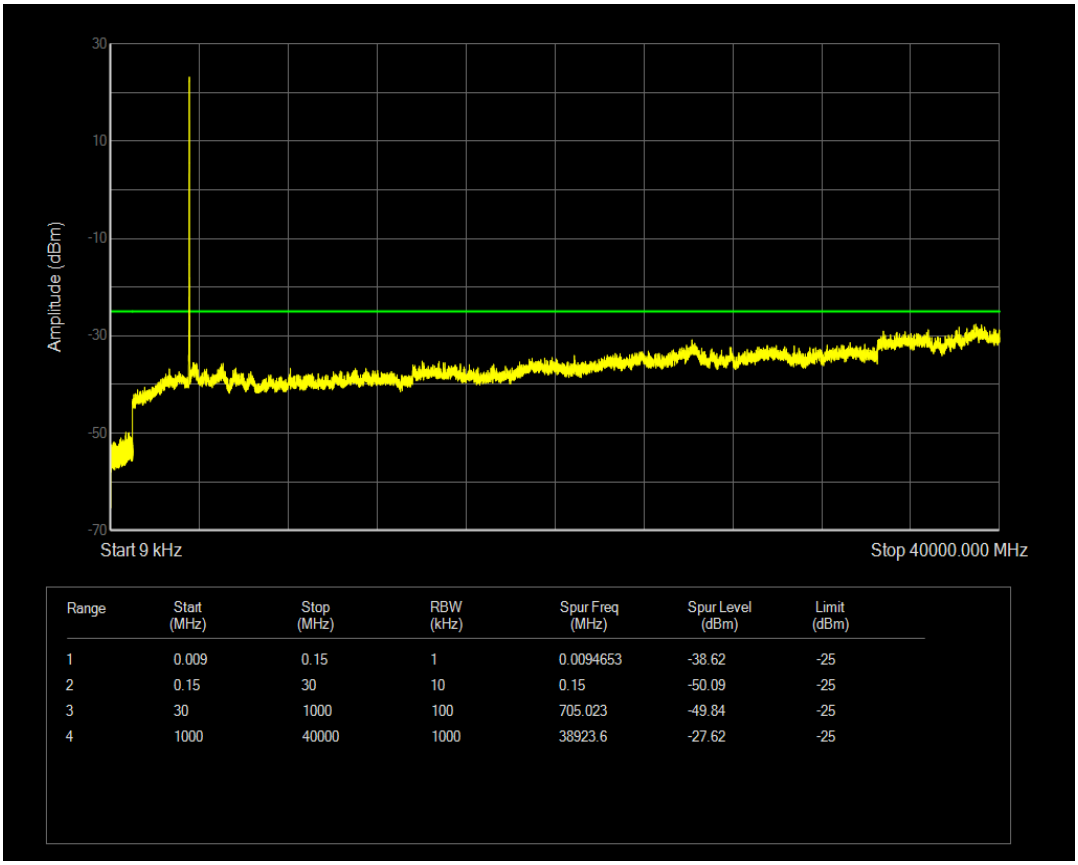


n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=645000 RB=1@269

6 Out-of-band emissions for NR FR1

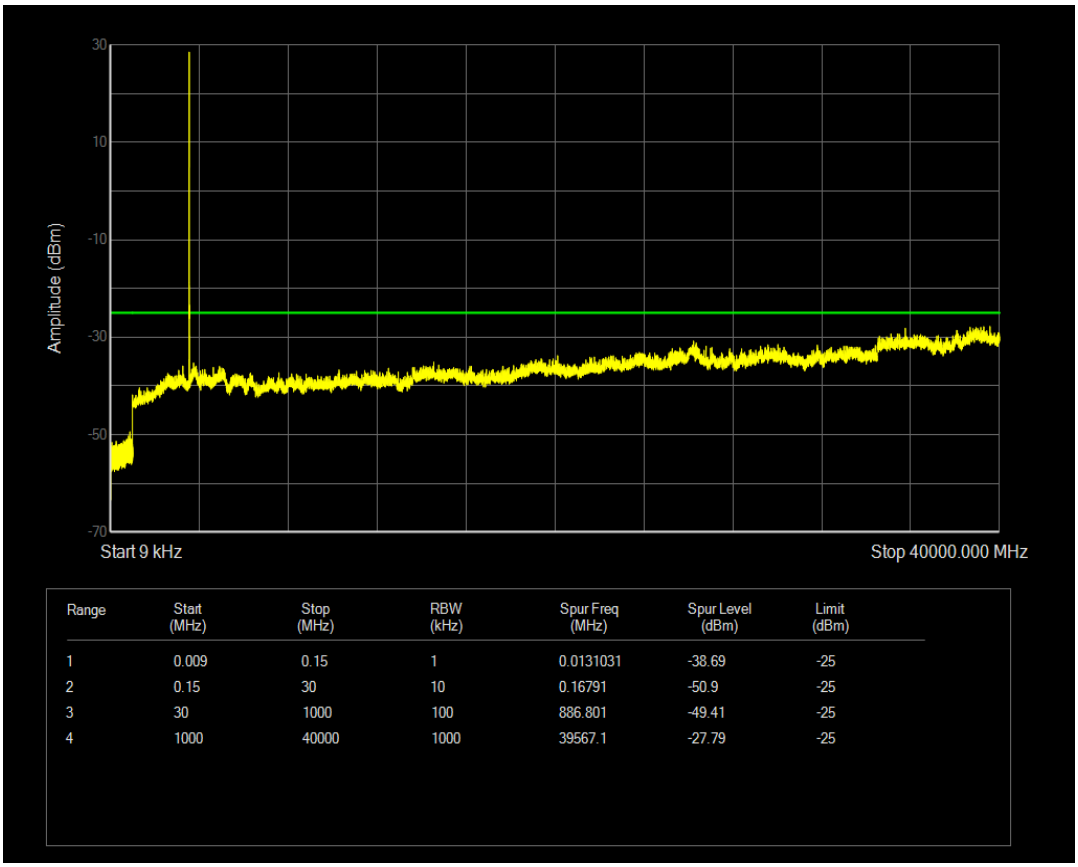
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3550-3700)	15	10	637000	50@0	DFT_QPSK	38923.60	-27.62	-25	PASS
n77(3550-3700)	15	10	637000	1@0	DFT_QPSK	39567.10	-27.79	-25	PASS
n77(3550-3700)	15	10	637000	1@51	DFT_QPSK	38085.10	-27.63	-25	PASS
n77(3550-3700)	15	10	641666	50@0	DFT_QPSK	39520.30	-27.97	-25	PASS
n77(3550-3700)	15	10	641666	1@0	DFT_QPSK	38919.70	-27.10	-25	PASS
n77(3550-3700)	15	10	641666	1@51	DFT_QPSK	38915.80	-28.09	-25	PASS
n77(3550-3700)	15	10	646332	50@0	DFT_QPSK	39364.30	-27.97	-25	PASS
n77(3550-3700)	15	10	646332	1@0	DFT_QPSK	38865.10	-27.89	-25	PASS
n77(3550-3700)	15	10	646332	1@51	DFT_QPSK	39914.20	-27.36	-25	PASS
n77(3550-3700)	15	50	638334	270@0	DFT_QPSK	39036.70	-27.82	-25	PASS
n77(3550-3700)	15	50	638334	1@0	DFT_QPSK	38872.90	-27.64	-25	PASS
n77(3550-3700)	15	50	638334	1@269	DFT_QPSK	39149.80	-27.80	-25	PASS
n77(3550-3700)	15	50	641666	270@0	DFT_QPSK	38896.30	-28.01	-25	PASS
n77(3550-3700)	15	50	641666	1@0	DFT_QPSK	39040.60	-27.28	-25	PASS
n77(3550-3700)	15	50	641666	1@269	DFT_QPSK	39196.60	-27.65	-25	PASS
n77(3550-3700)	15	50	645000	270@0	DFT_QPSK	38849.50	-27.92	-25	PASS
n77(3550-3700)	15	50	645000	1@0	DFT_QPSK	38689.60	-27.65	-25	PASS
n77(3550-3700)	15	50	645000	1@269	DFT_QPSK	39025.00	-27.03	-25	PASS

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=637000 RB=50@0



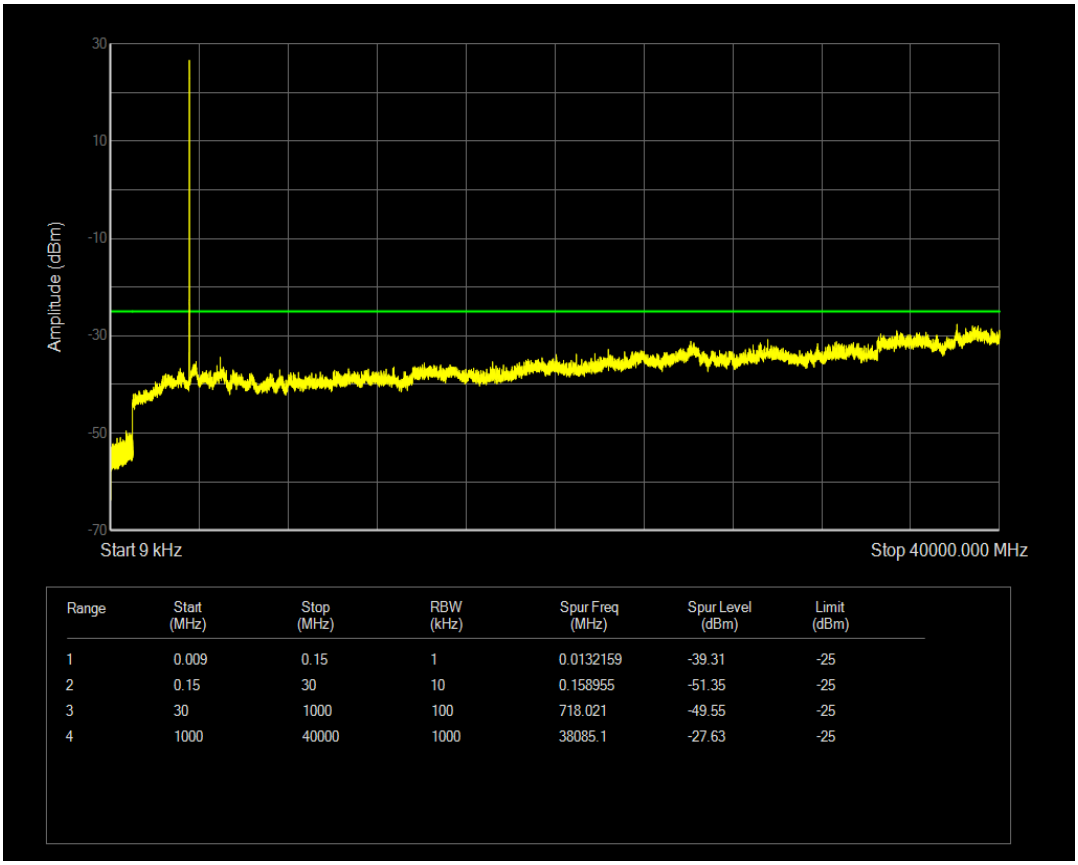
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0094653	-38.62	-25
2	0.15	30	10	0.15	-50.09	-25
3	30	1000	100	705.023	-49.84	-25
4	1000	40000	1000	38923.6	-27.62	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=637000 RB=1@0



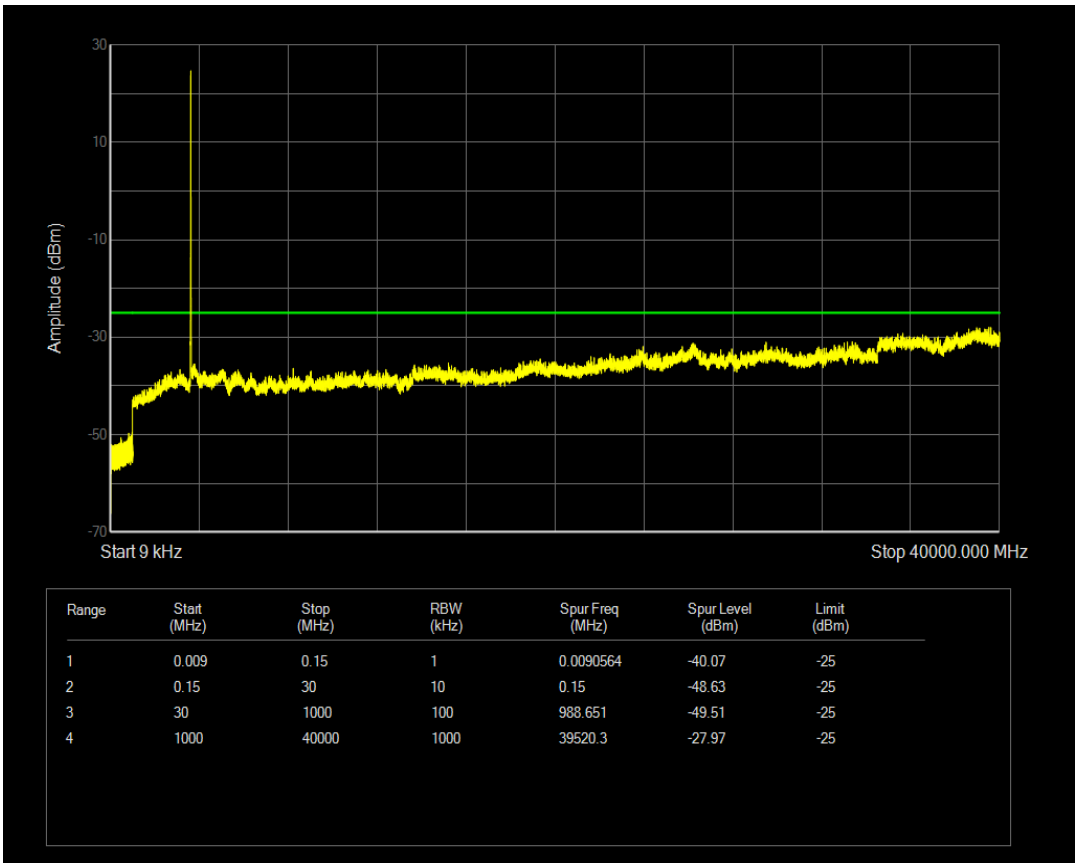
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0131031	-38.69	-25
2	0.15	30	10	0.16791	-50.9	-25
3	30	1000	100	886.801	-49.41	-25
4	1000	40000	1000	39567.1	-27.79	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=637000 RB=1@51



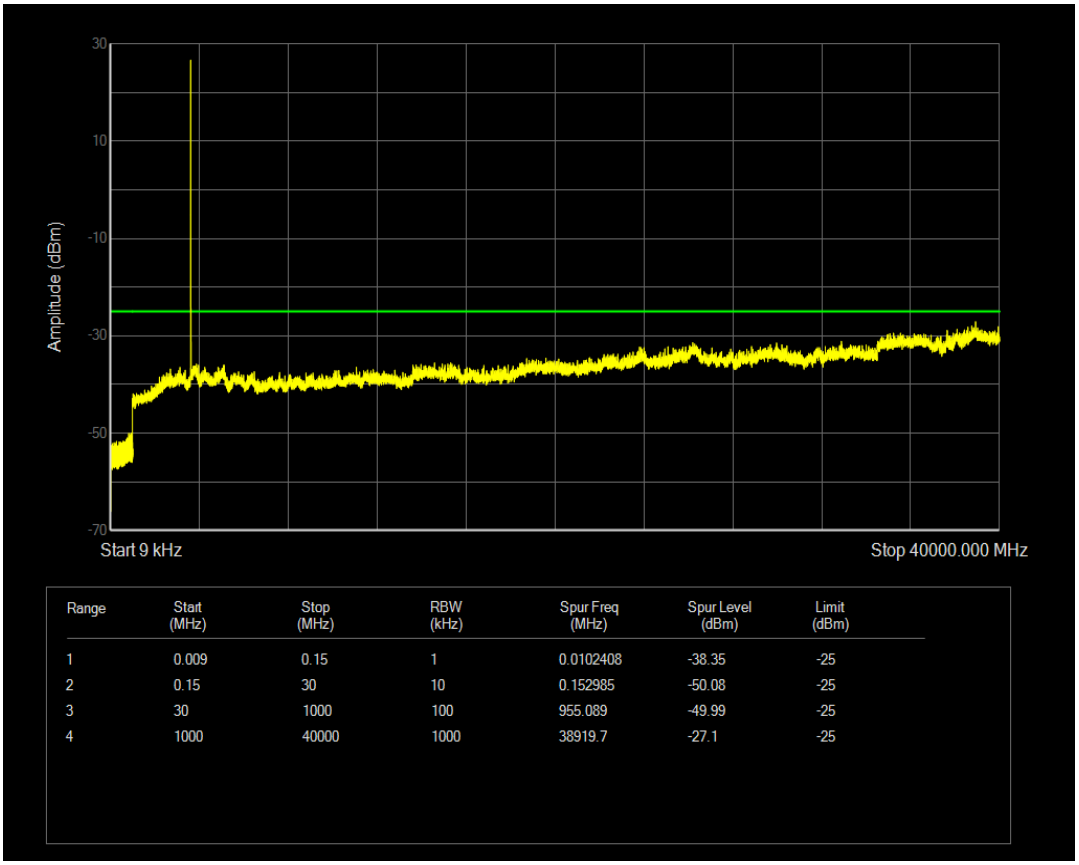
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0132159	-39.31	-25
2	0.15	30	10	0.158955	-51.35	-25
3	30	1000	100	718.021	-49.55	-25
4	1000	40000	1000	38085.1	-27.63	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=641666 RB=50@0



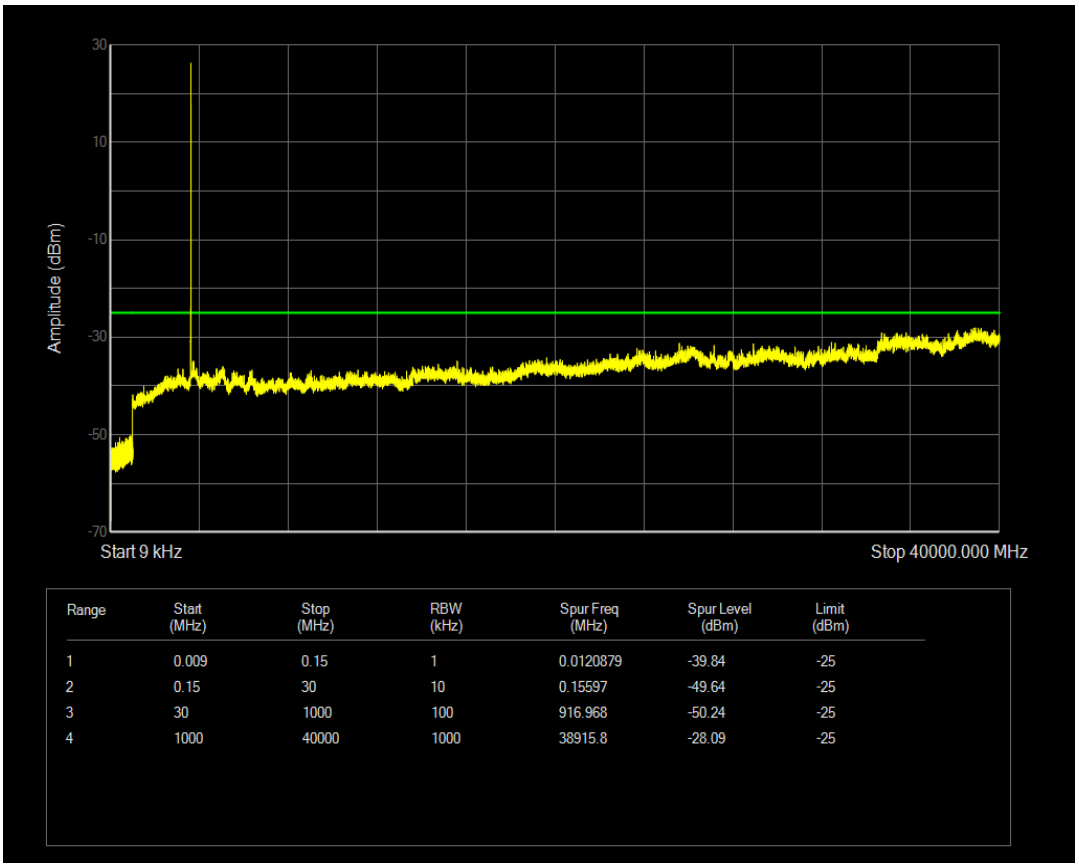
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0090564	-40.07	-25
2	0.15	30	10	0.15	-48.63	-25
3	30	1000	100	988.651	-49.51	-25
4	1000	40000	1000	39520.3	-27.97	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=641666 RB=1@0



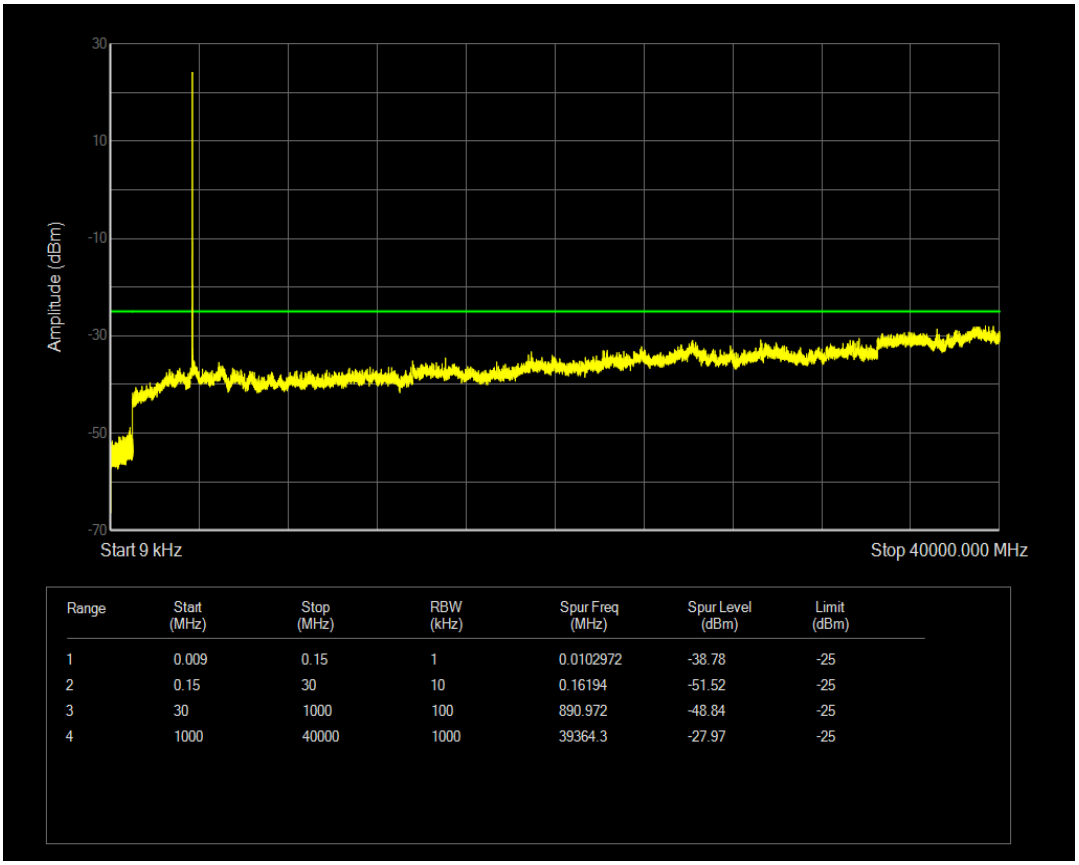
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0102408	-38.35	-25
2	0.15	30	10	0.152985	-50.08	-25
3	30	1000	100	955.089	-49.99	-25
4	1000	40000	1000	38919.7	-27.1	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=641666 RB=1@51



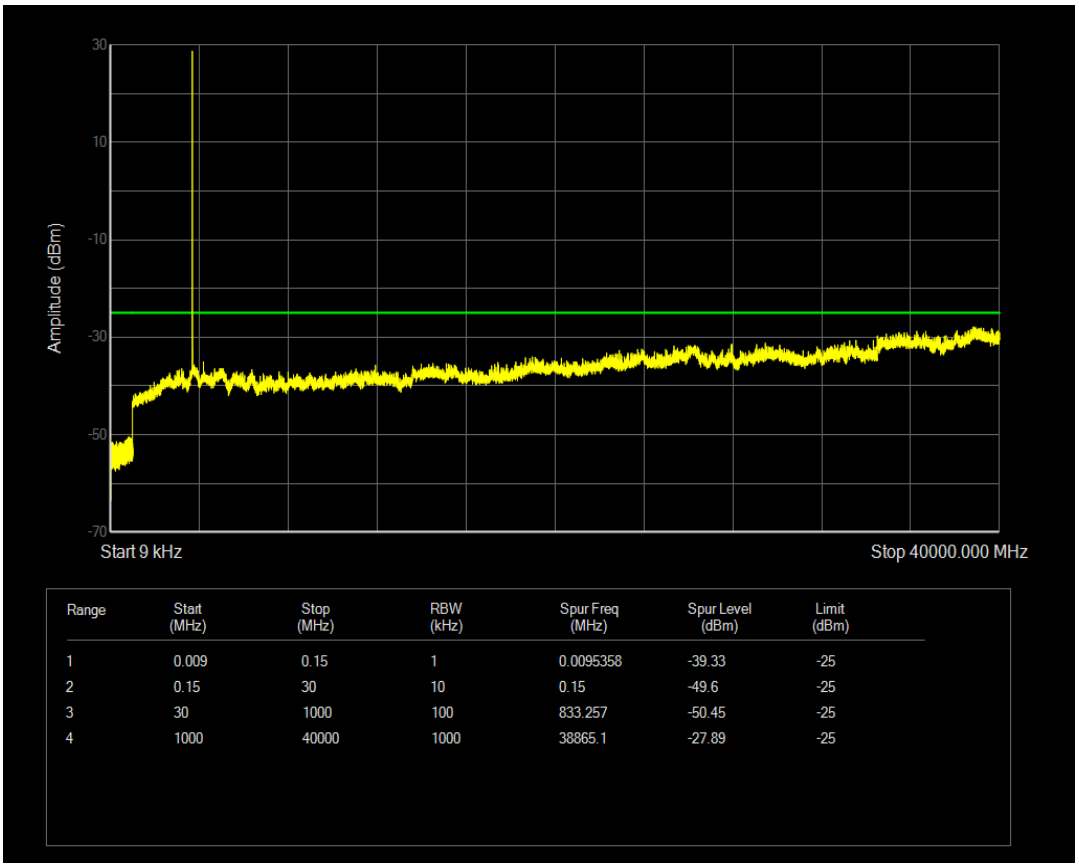
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0120879	-39.84	-25
2	0.15	30	10	0.15597	-49.64	-25
3	30	1000	100	916.968	-50.24	-25
4	1000	40000	1000	38915.8	-28.09	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=646332 RB=50@0



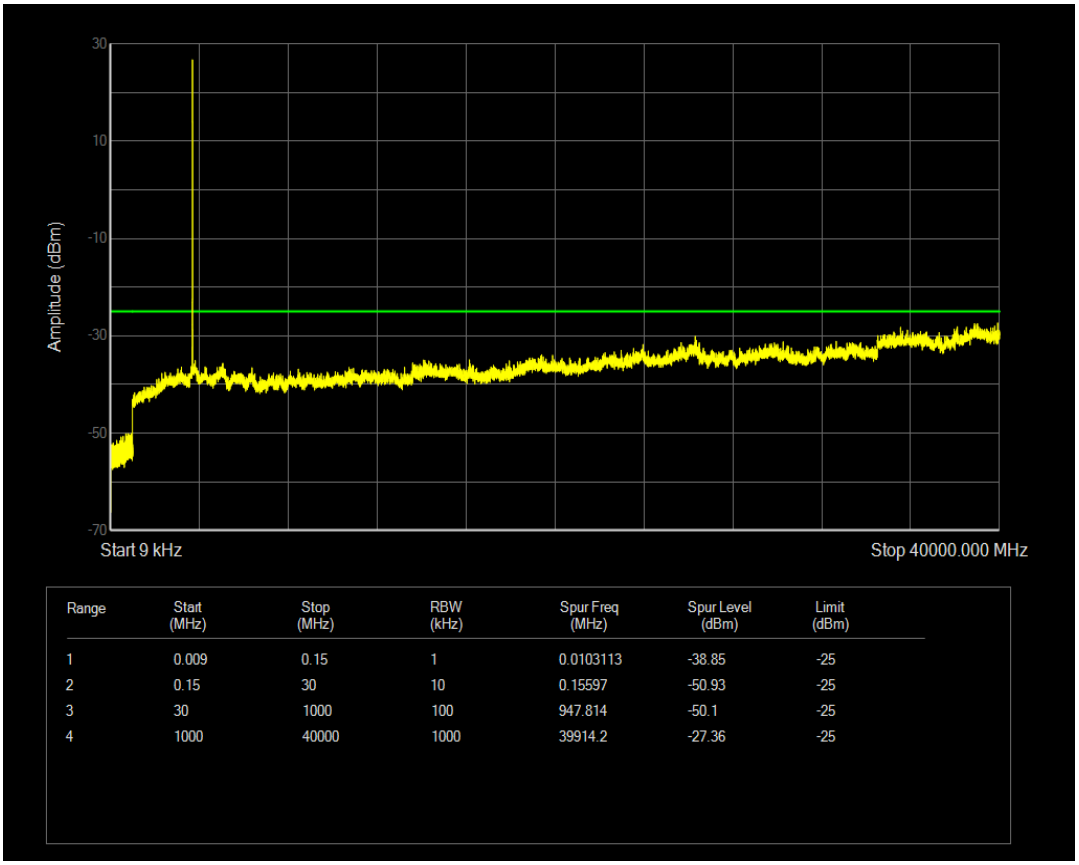
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0102972	-38.78	-25
2	0.15	30	10	0.16194	-51.52	-25
3	30	1000	100	890.972	-48.84	-25
4	1000	40000	1000	39364.3	-27.97	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=646332 RB=1@0



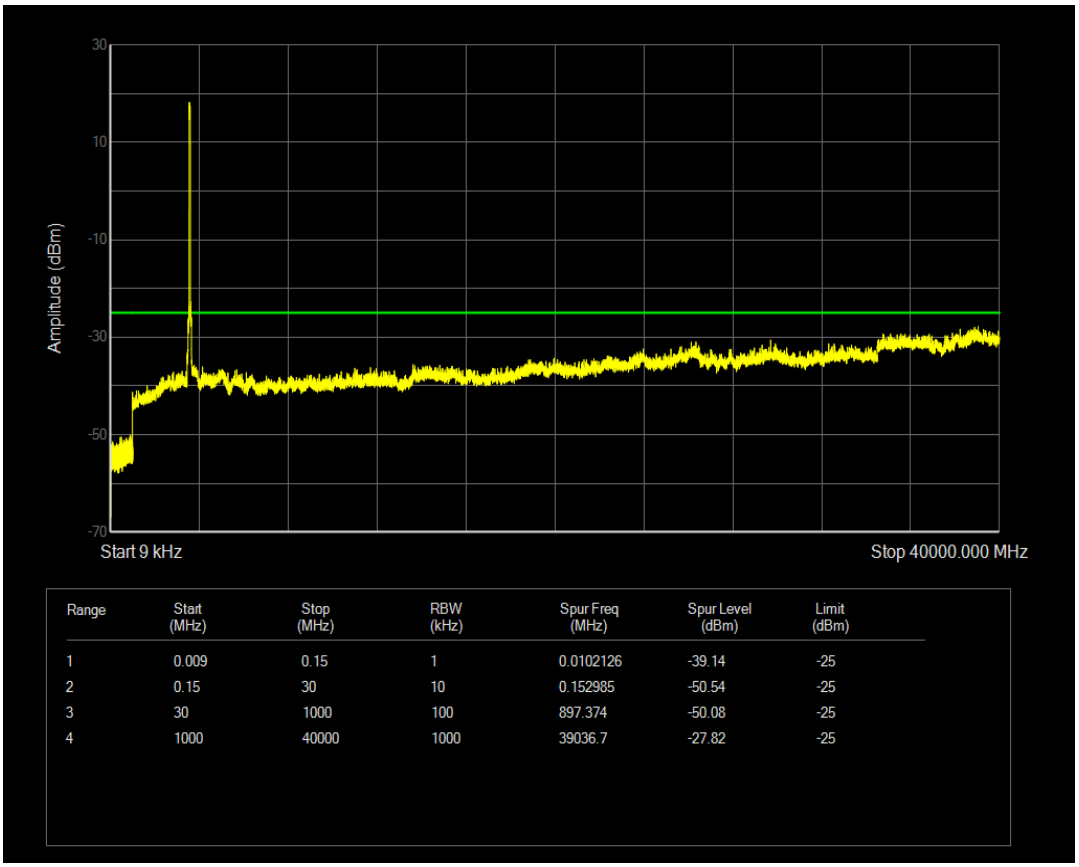
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0095358	-39.33	-25
2	0.15	30	10	0.15	-49.6	-25
3	30	1000	100	833.257	-50.45	-25
4	1000	40000	1000	38865.1	-27.89	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=10MHz Channel=646332 RB=1@51



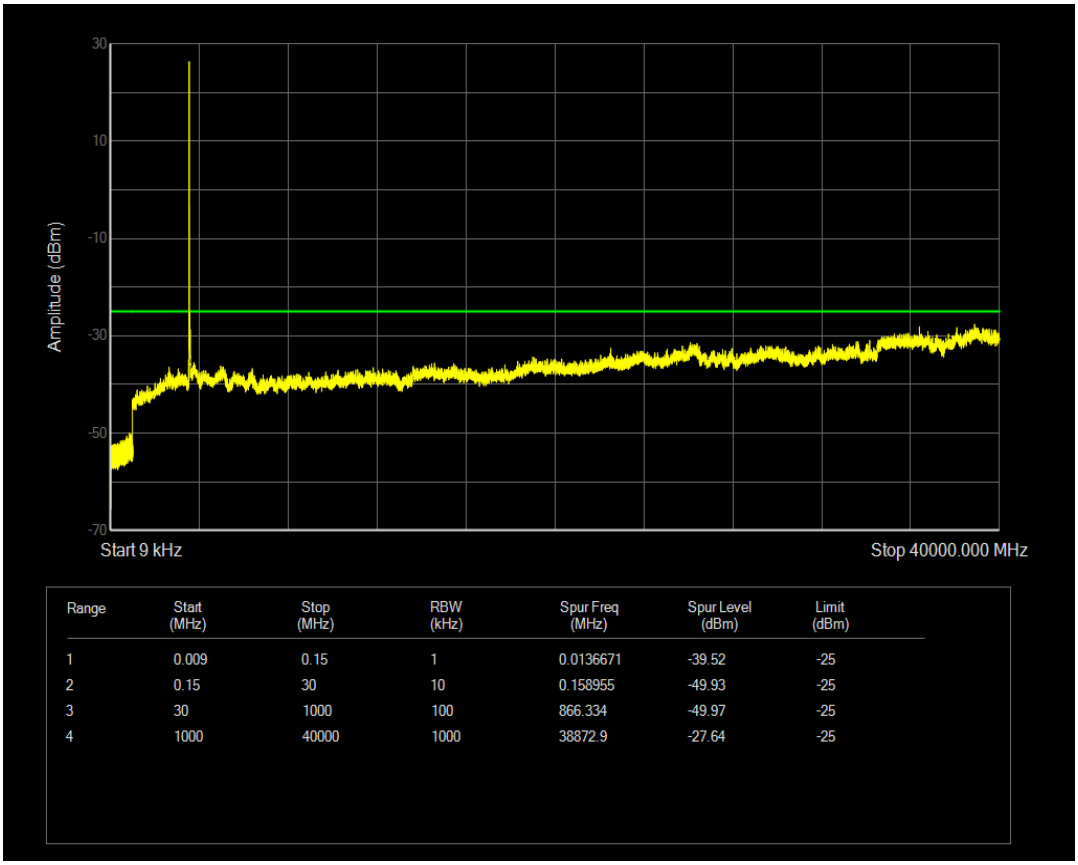
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0103113	-38.85	-25
2	0.15	30	10	0.15597	-50.93	-25
3	30	1000	100	947.814	-50.1	-25
4	1000	40000	1000	39914.2	-27.36	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=638334 RB=270@0



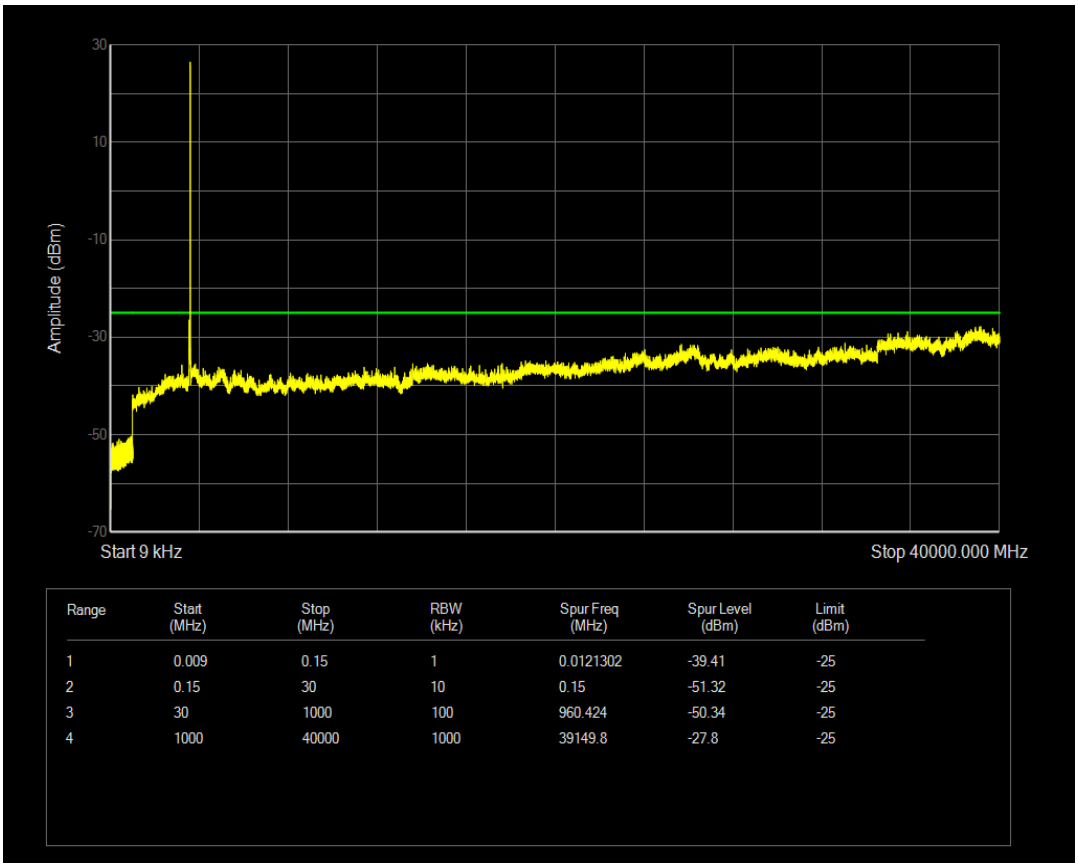
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0102126	-39.14	-25
2	0.15	30	10	0.152985	-50.54	-25
3	30	1000	100	897.374	-50.08	-25
4	1000	40000	1000	39036.7	-27.82	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=638334 RB=1@0



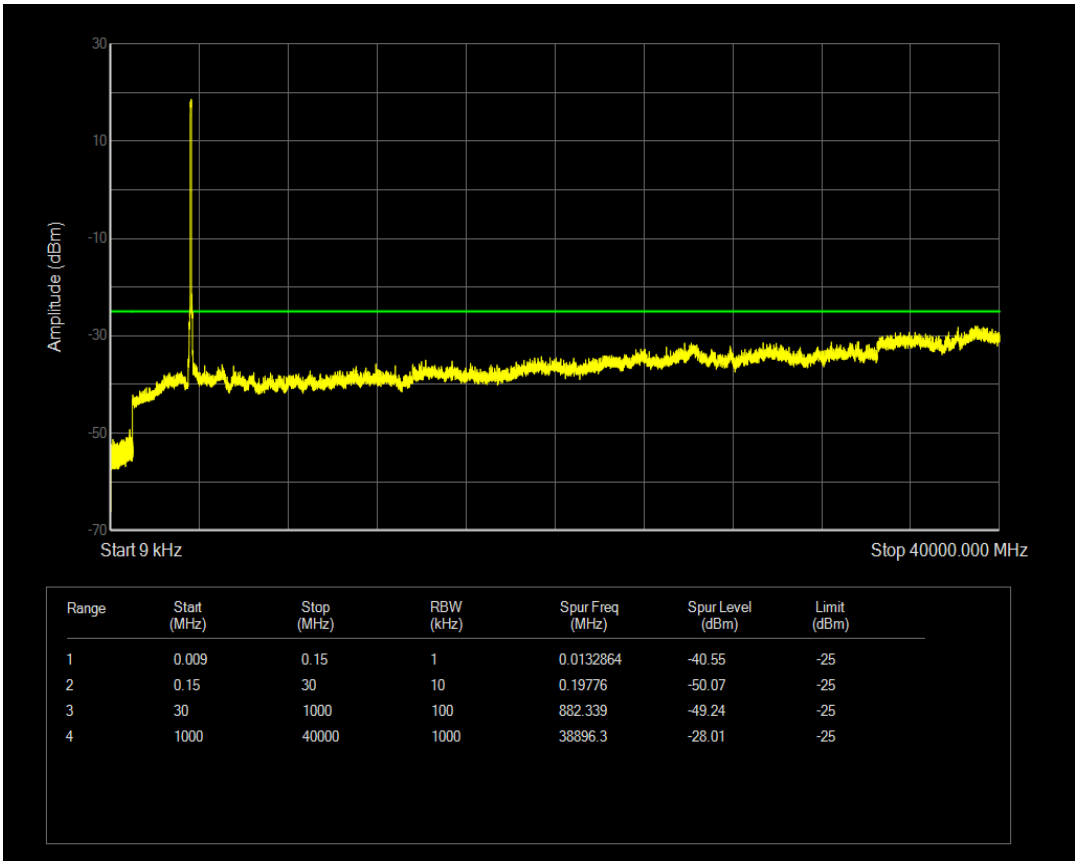
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0136671	-39.52	-25
2	0.15	30	10	0.158955	-49.93	-25
3	30	1000	100	866.334	-49.97	-25
4	1000	40000	1000	38872.9	-27.64	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=638334 RB=1@269



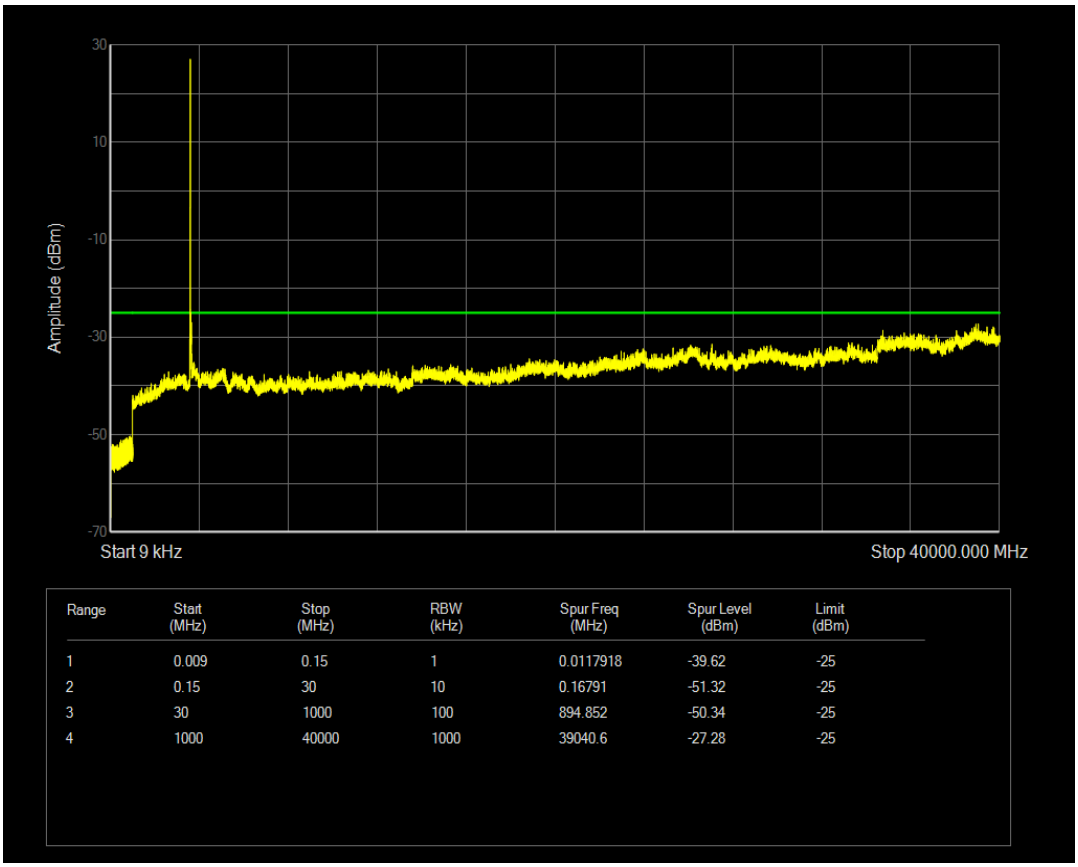
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0121302	-39.41	-25
2	0.15	30	10	0.15	-51.32	-25
3	30	1000	100	960.424	-50.34	-25
4	1000	40000	1000	39149.8	-27.8	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=641666 RB=270@0



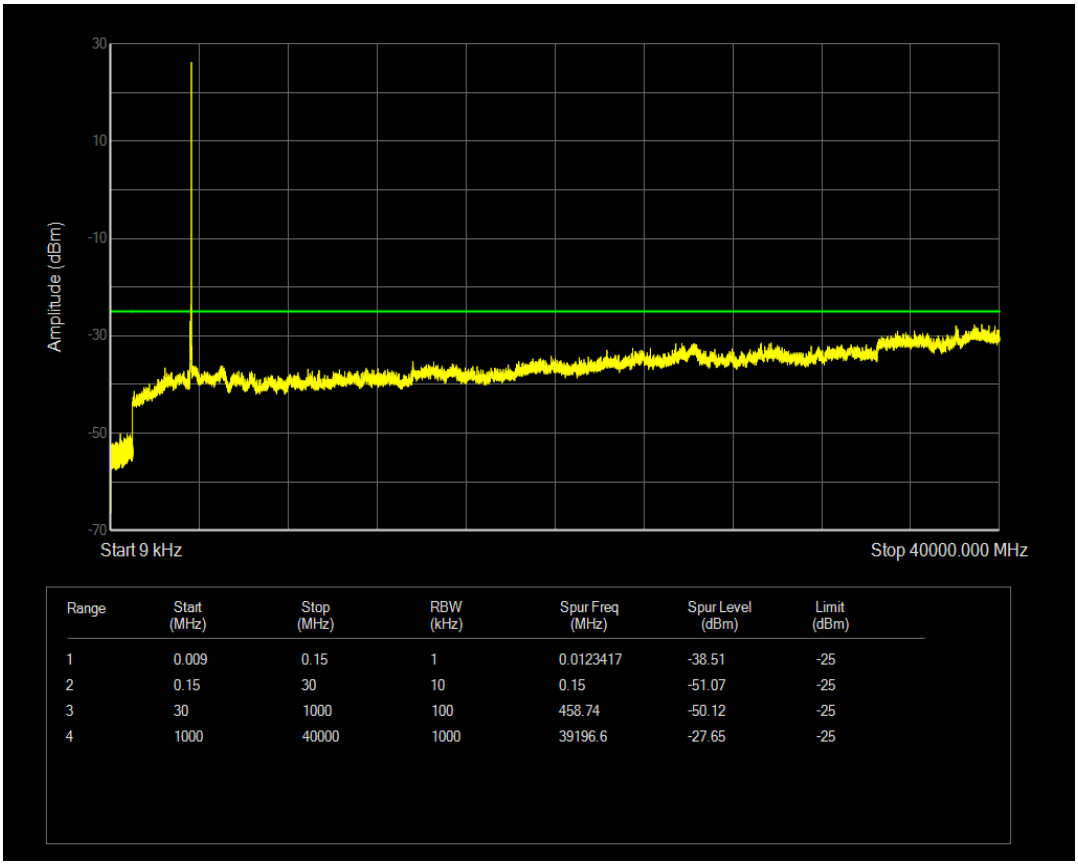
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0132864	-40.55	-25
2	0.15	30	10	0.19776	-50.07	-25
3	30	1000	100	882.339	-49.24	-25
4	1000	40000	1000	38896.3	-28.01	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=641666 RB=1@0



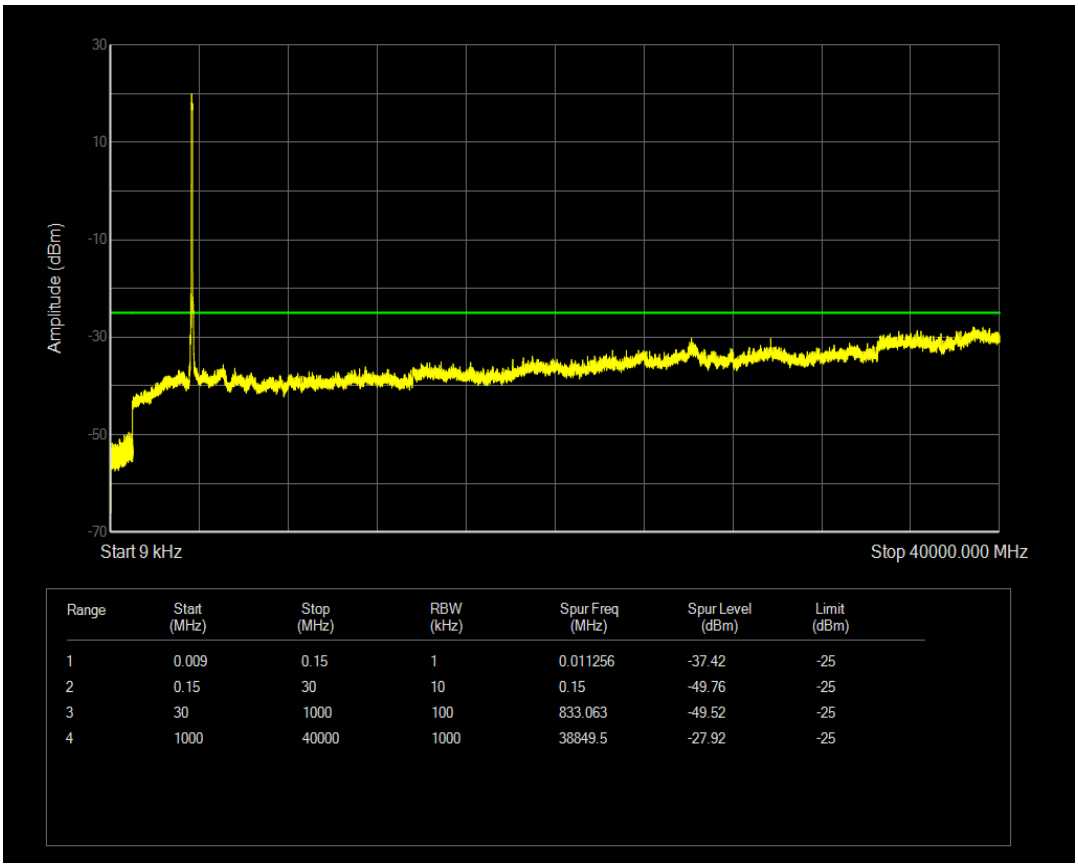
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0117918	-39.62	-25
2	0.15	30	10	0.16791	-51.32	-25
3	30	1000	100	894.852	-50.34	-25
4	1000	40000	1000	39040.6	-27.28	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=641666 RB=1@269



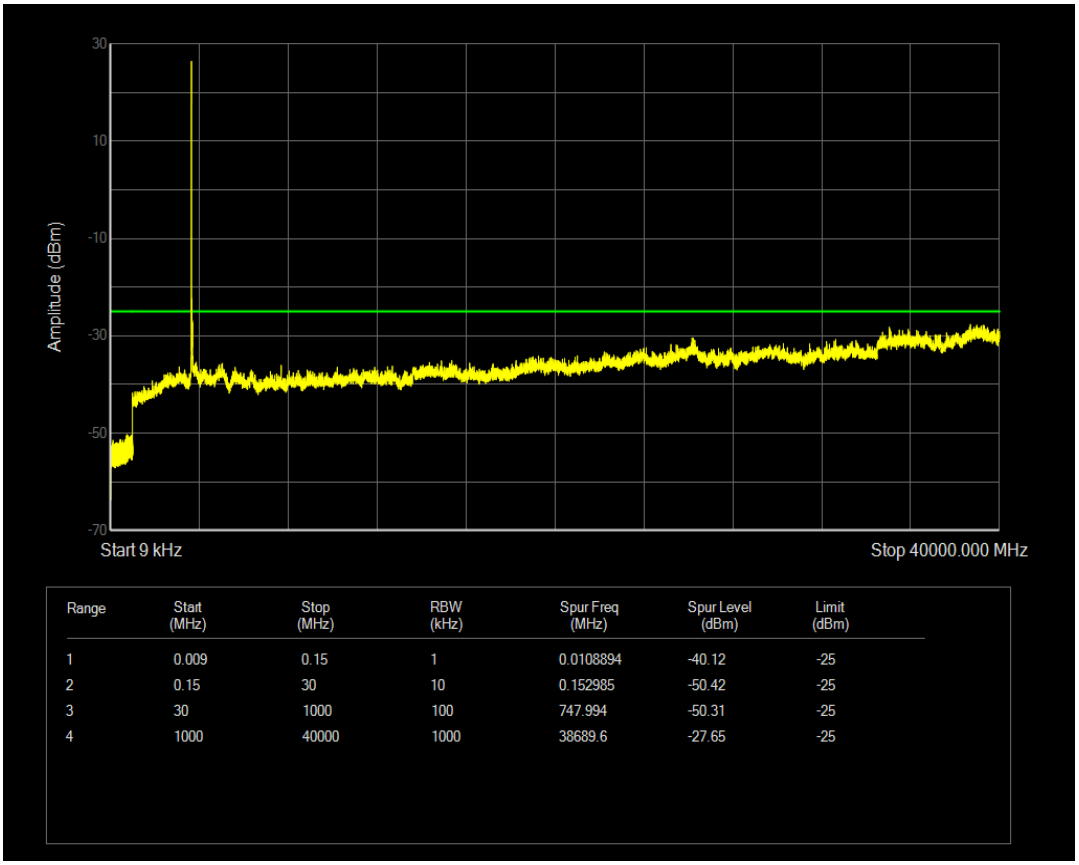
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0123417	-38.51	-25
2	0.15	30	10	0.15	-51.07	-25
3	30	1000	100	458.74	-50.12	-25
4	1000	40000	1000	39196.6	-27.65	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=645000 RB=270@0



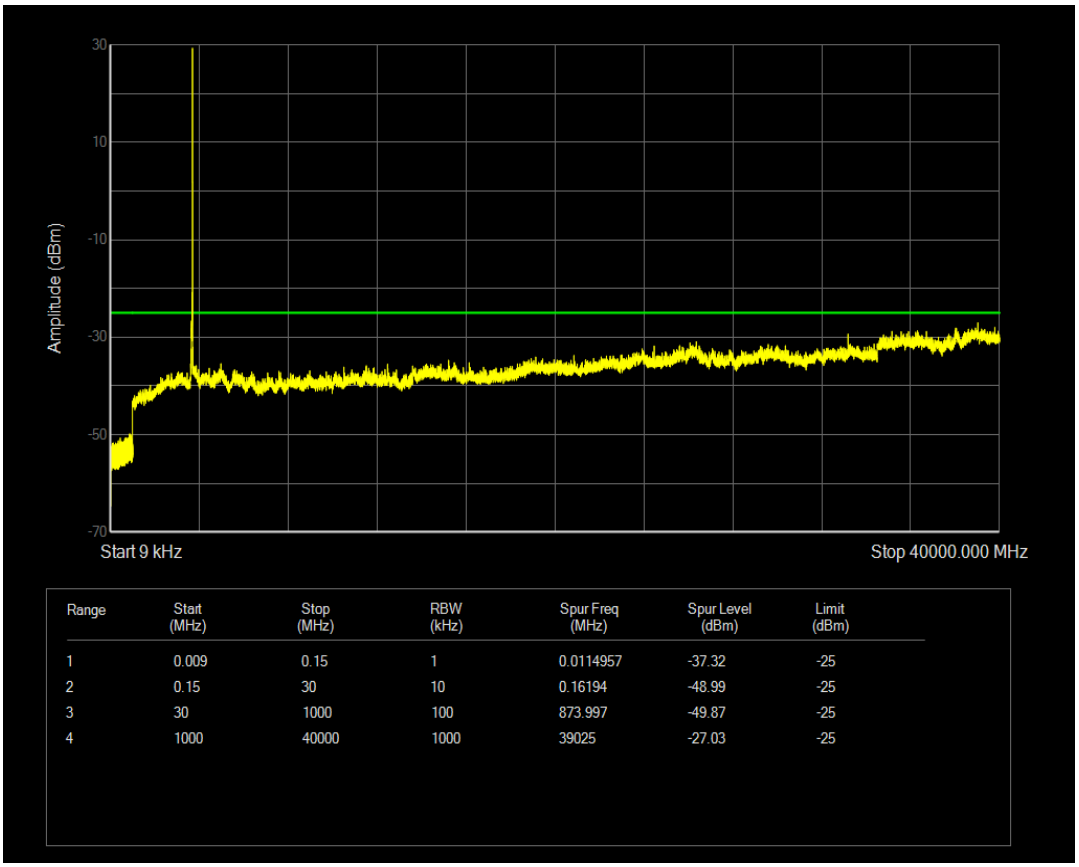
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011256	-37.42	-25
2	0.15	30	10	0.15	-49.76	-25
3	30	1000	100	833.063	-49.52	-25
4	1000	40000	1000	38849.5	-27.92	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=645000 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0108894	-40.12	-25
2	0.15	30	10	0.152985	-50.42	-25
3	30	1000	100	747.994	-50.31	-25
4	1000	40000	1000	38689.6	-27.65	-25

n77(3550-3700) SCS=15kHz DFT_QPSK BW=50MHz Channel=645000 RB=1@269



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0114957	-37.32	-25
2	0.15	30	10	0.16194	-48.99	-25
3	30	1000	100	873.997	-49.87	-25
4	1000	40000	1000	39025	-27.03	-25