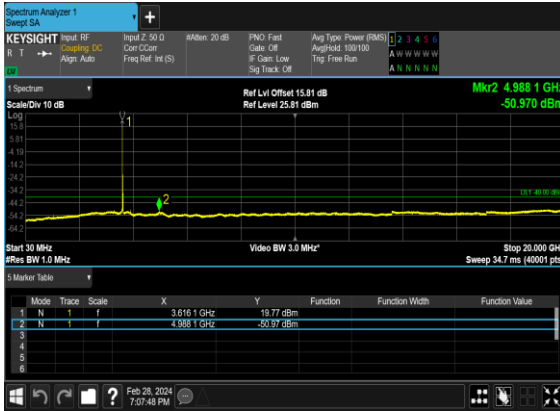
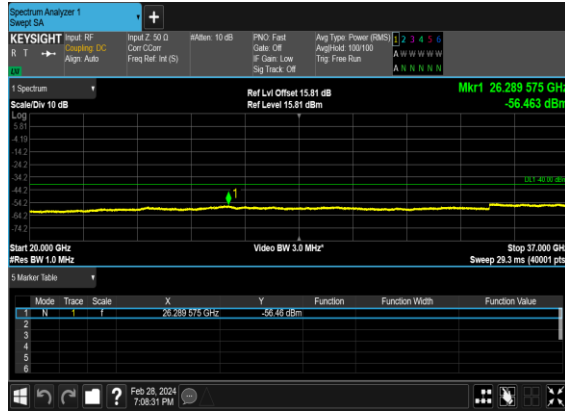


N48(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N48(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N48(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



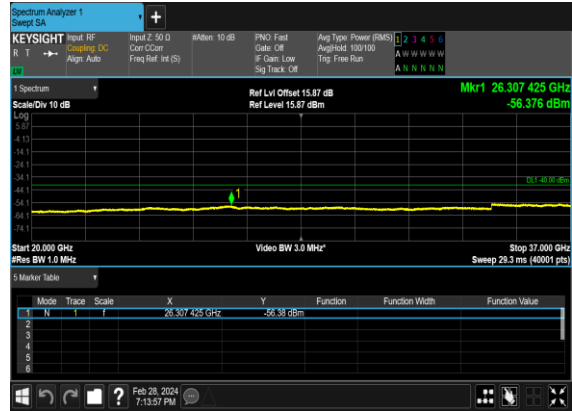
N48(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N48(40M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



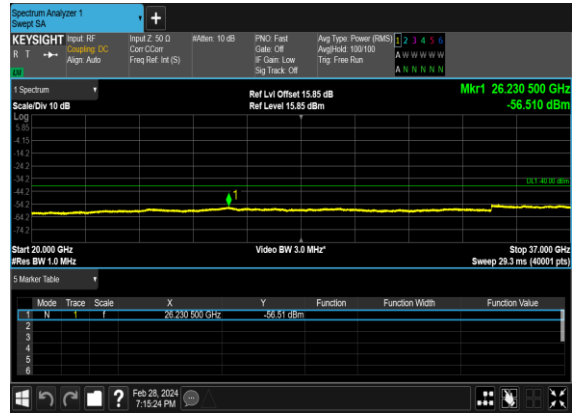
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N48(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N48(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



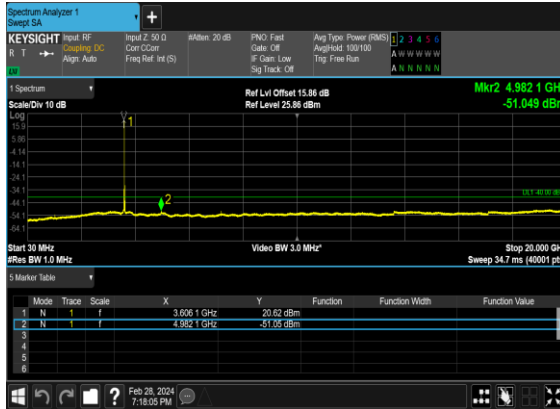
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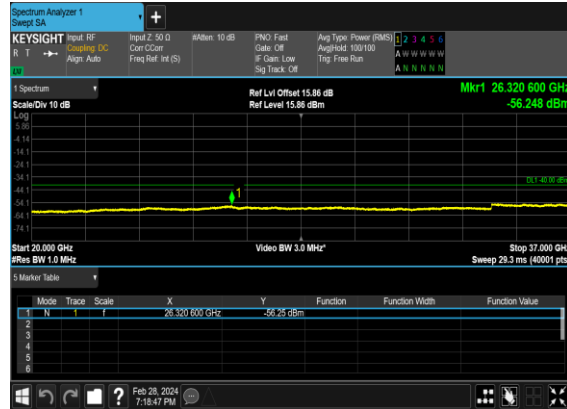
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N48(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(40M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



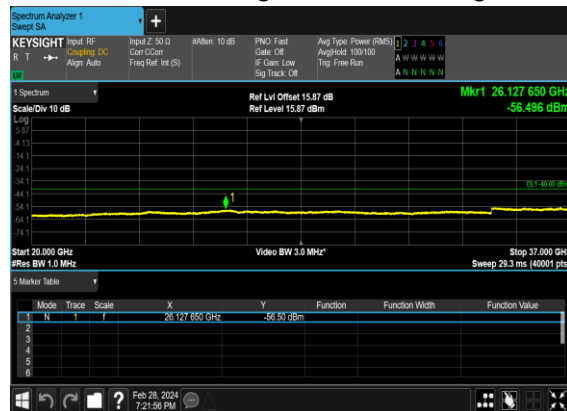
N48(40M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N48(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N48(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



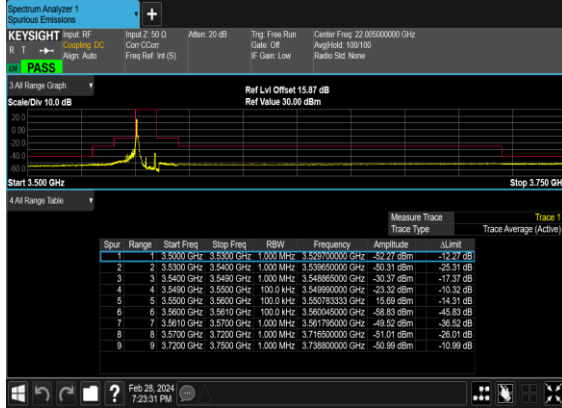
## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	see graph	PASS

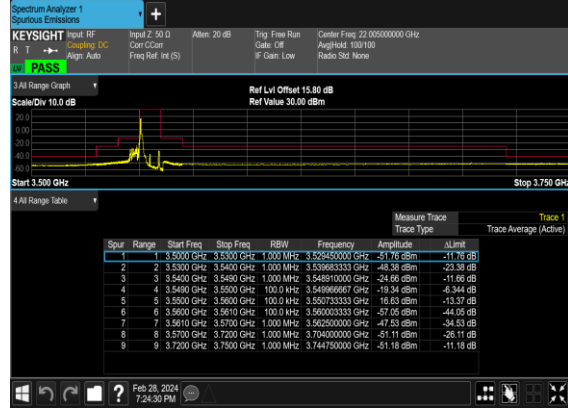
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	PASS

<b>48</b>	30	40	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	<b>PASS</b>
<b>48</b>	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	<b>PASS</b>
<b>48</b>	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
<b>48</b>	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
<b>48</b>	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@105	see graph	<b>PASS</b>
<b>48</b>	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	see graph	<b>PASS</b>
<b>48</b>	30	40	645332	3679.98	DFT-s-OFDM BPSK	100@0	see graph	<b>PASS</b>
<b>48</b>	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	see graph	<b>PASS</b>

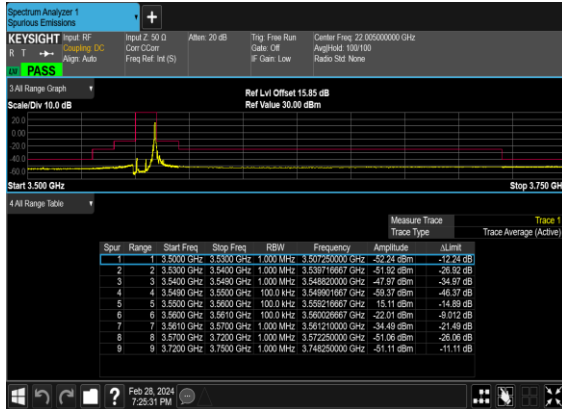
### N48(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



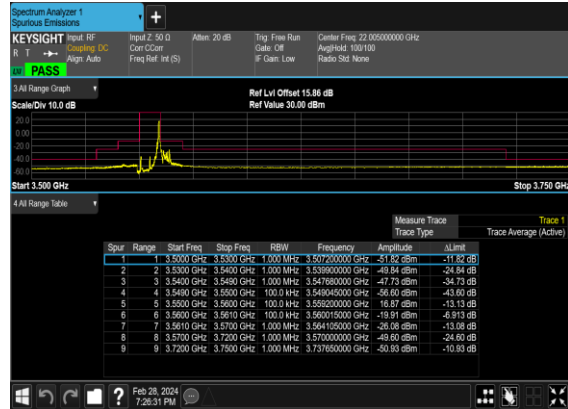
### N48(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



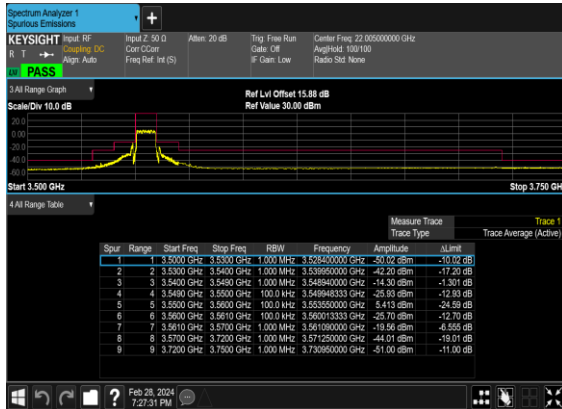
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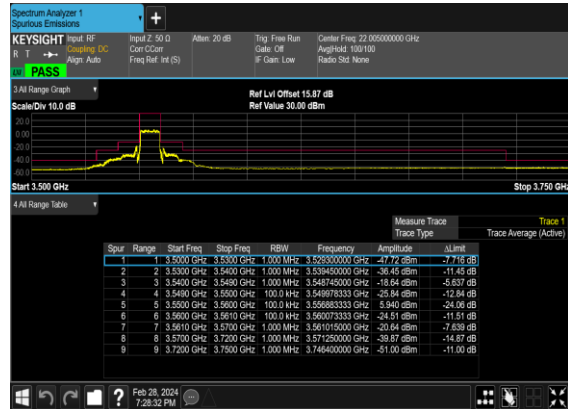
### N48(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH



### N48(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



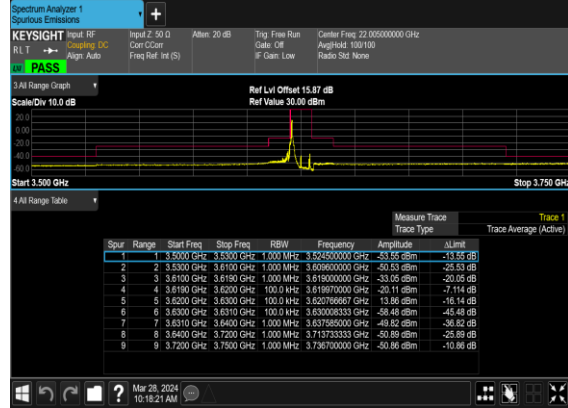
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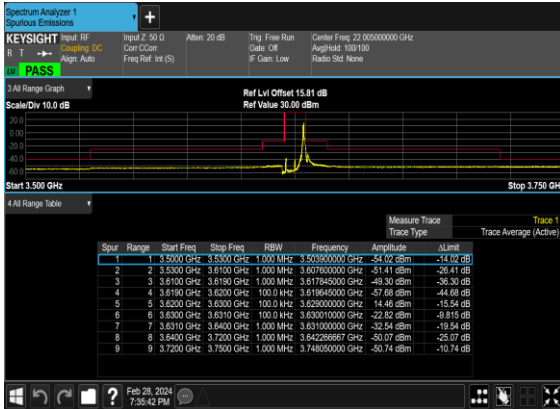
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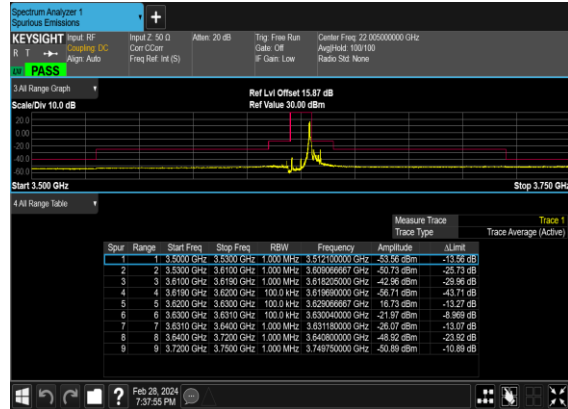
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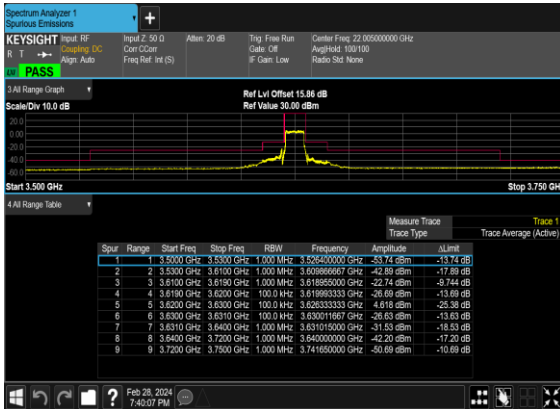
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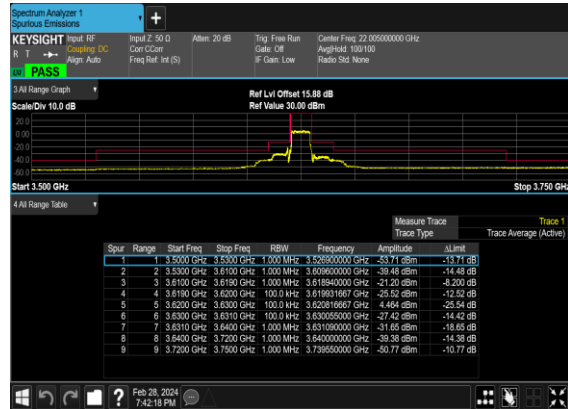
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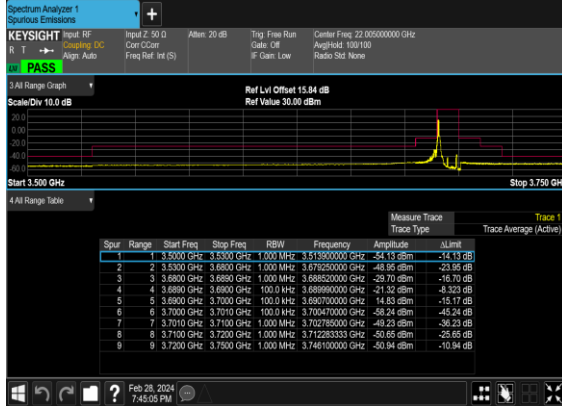
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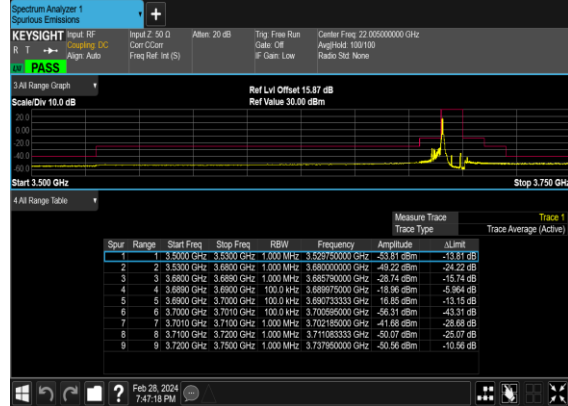
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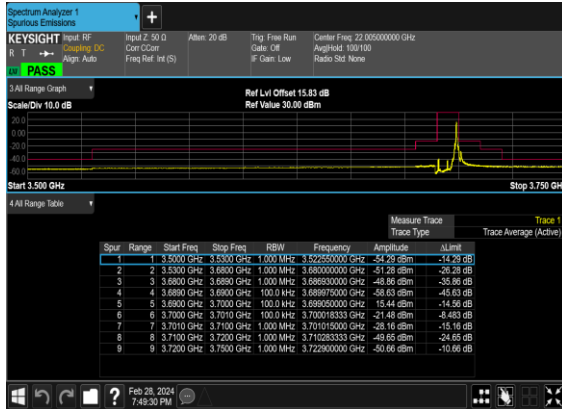
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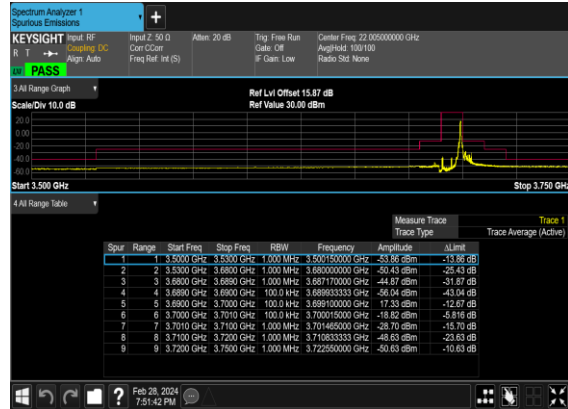
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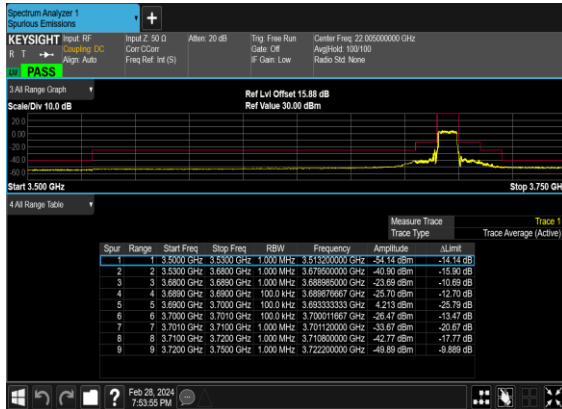
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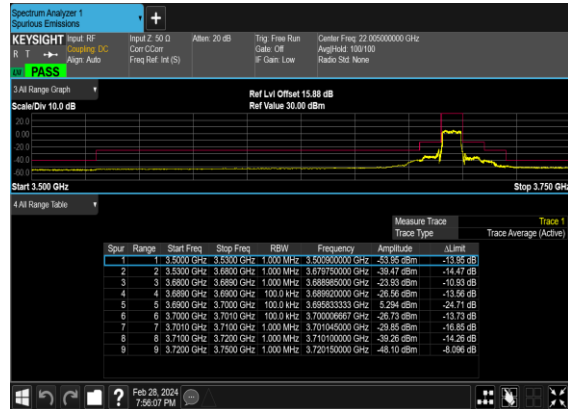
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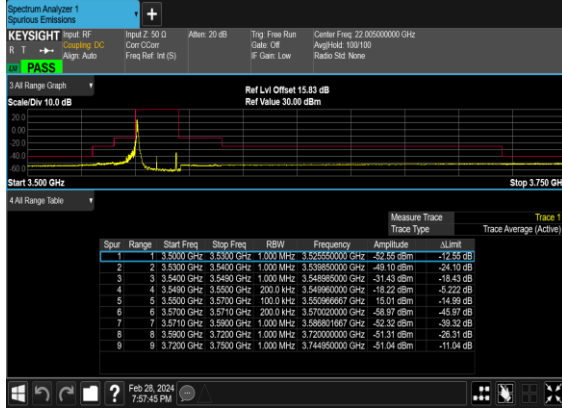
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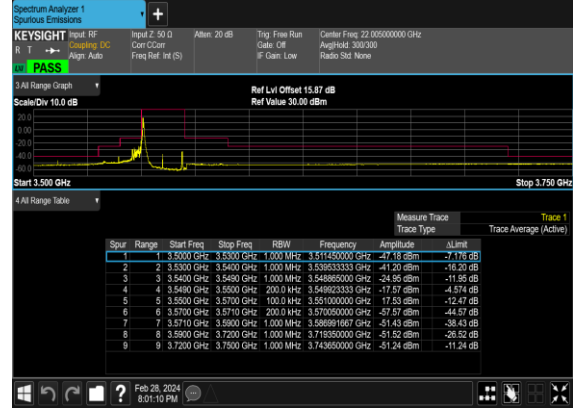
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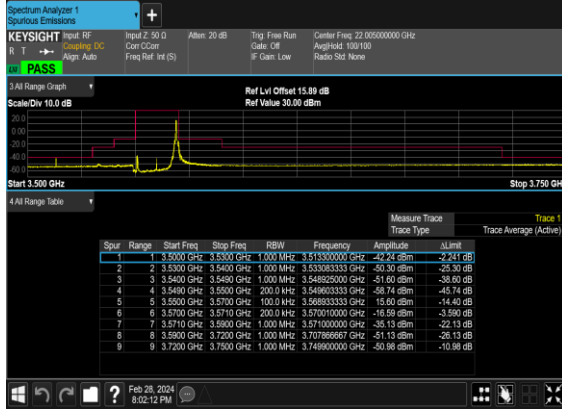
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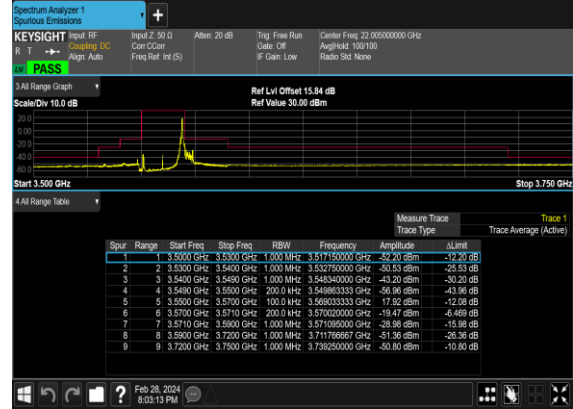
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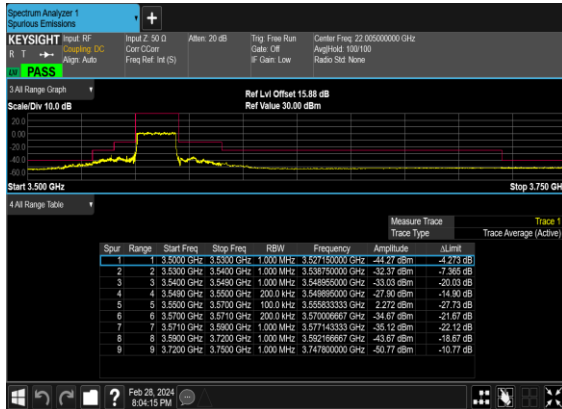
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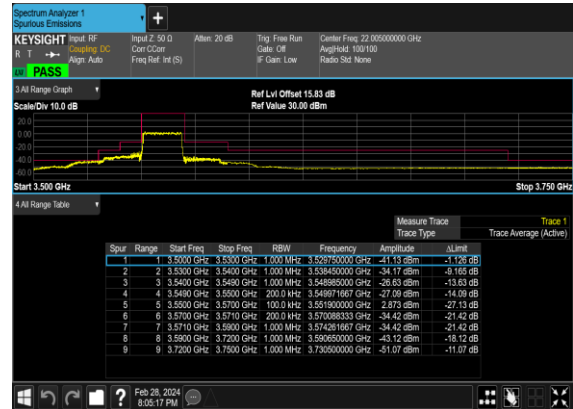
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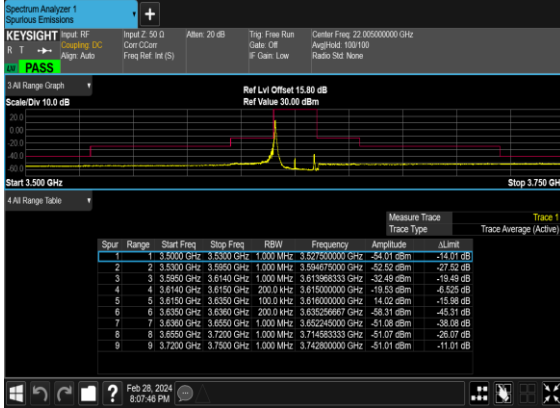
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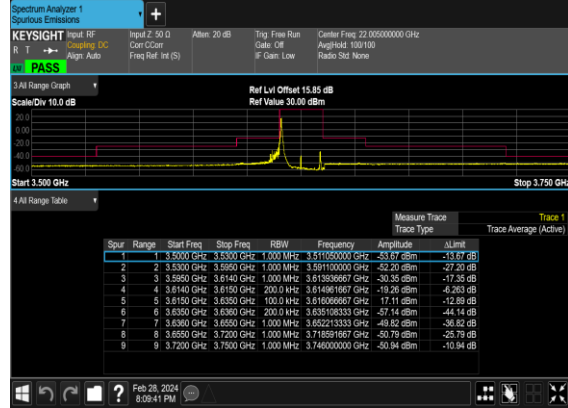
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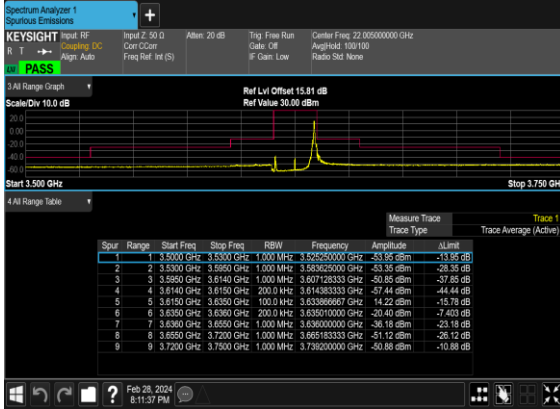
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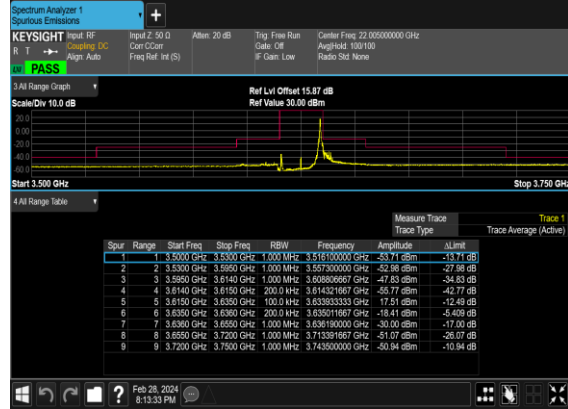
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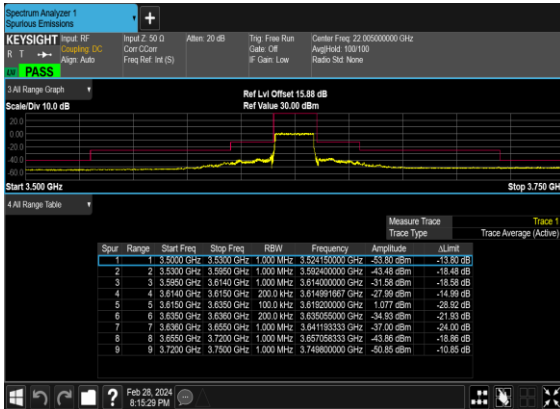
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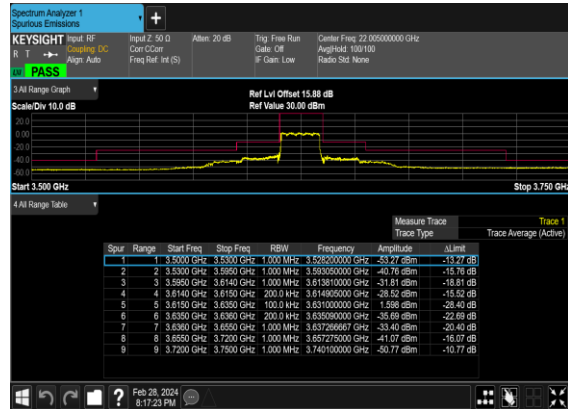
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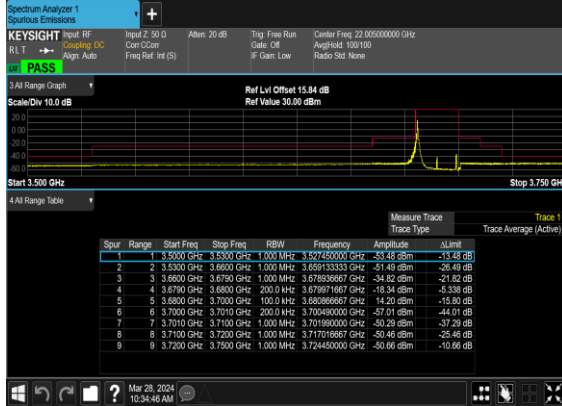
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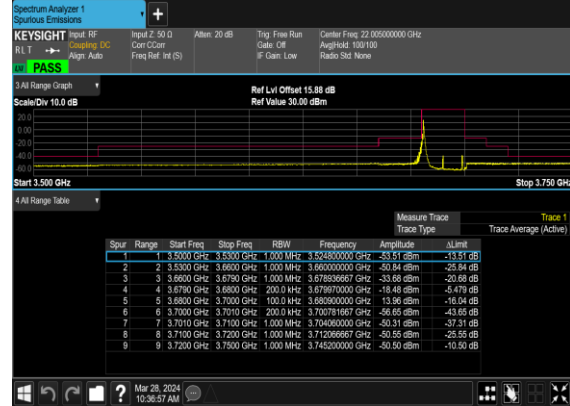
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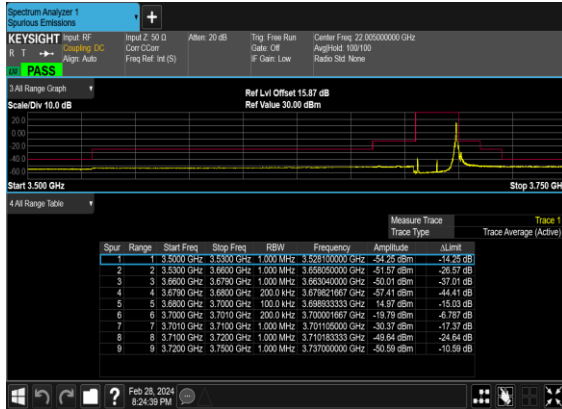
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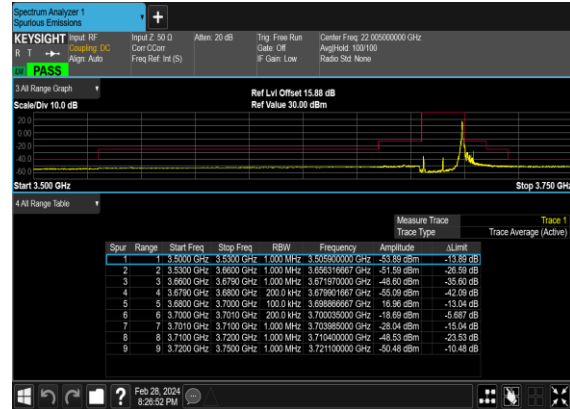
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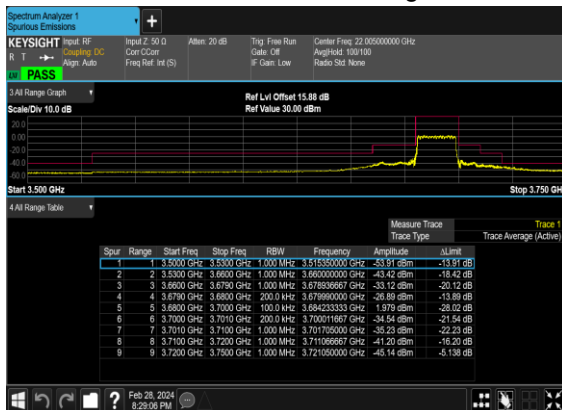
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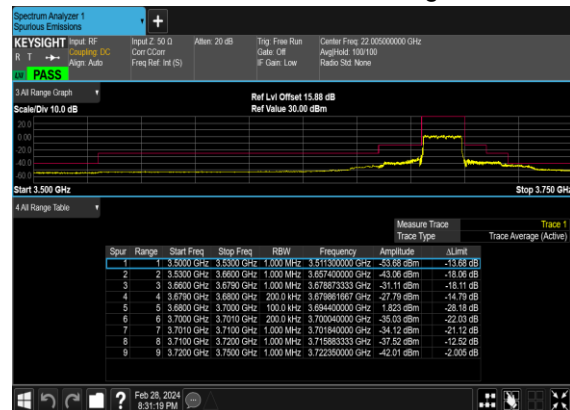
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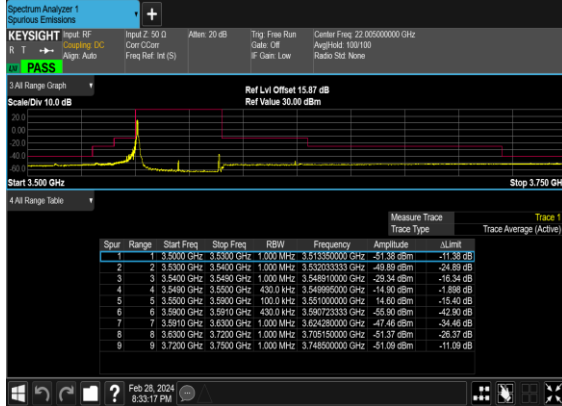
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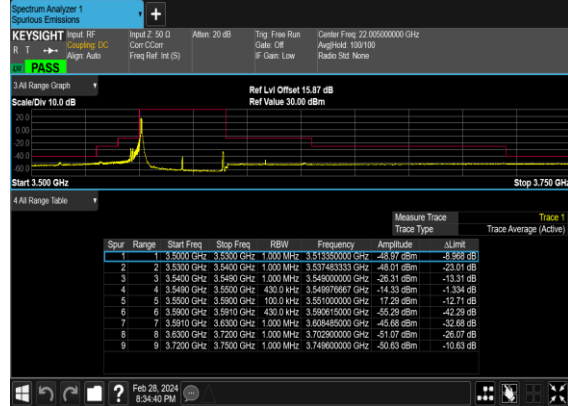
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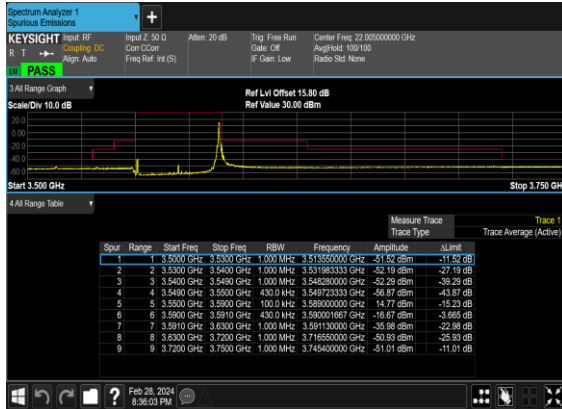
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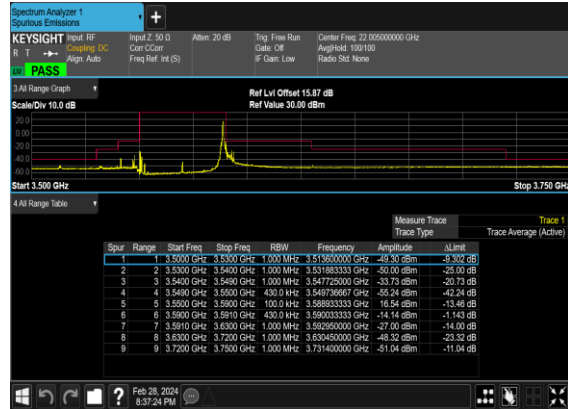
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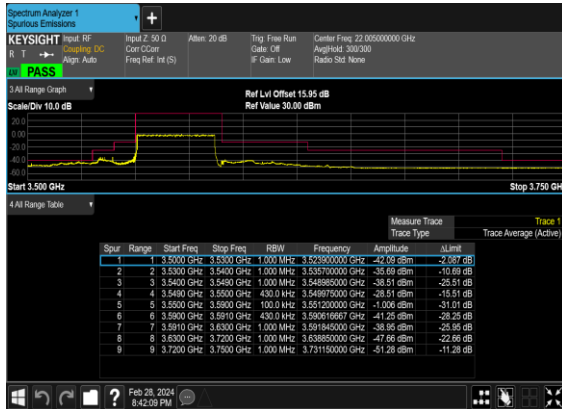
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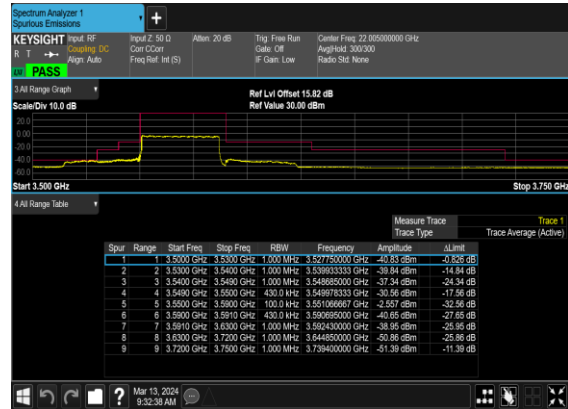
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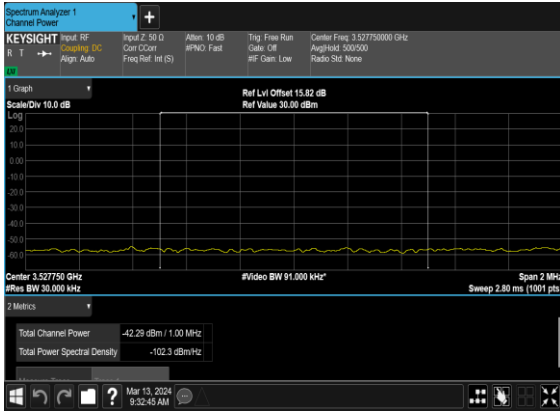
### N48(40M)\_DFT-s- OFDM\_BPSK\_Outer\_Full\_Low\_CH



### N48(40M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Low\_CH



### N48(40M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH\_CHP\_PAS



### N48(40M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



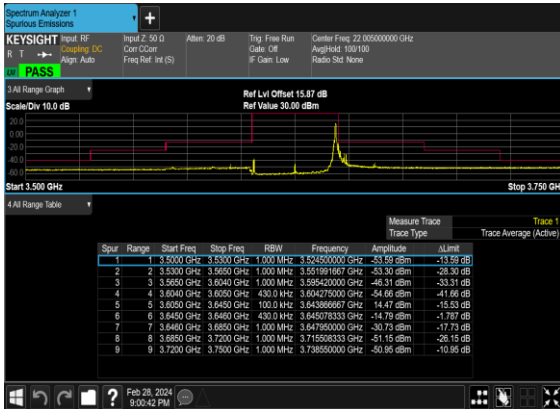
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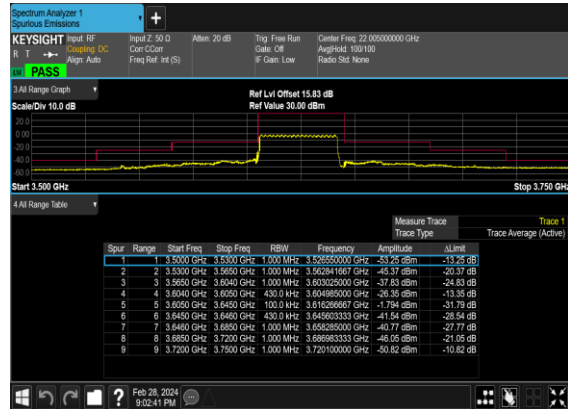
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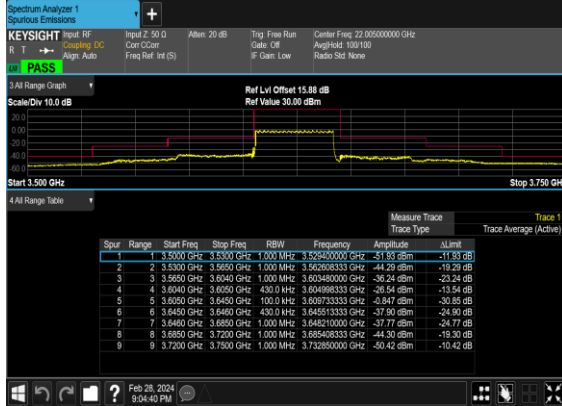
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### N48(40M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Mid\_CH



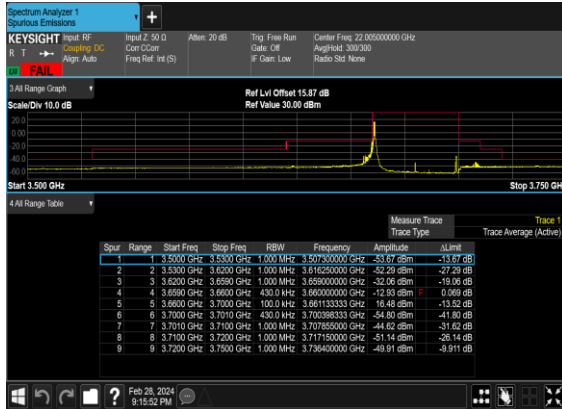
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



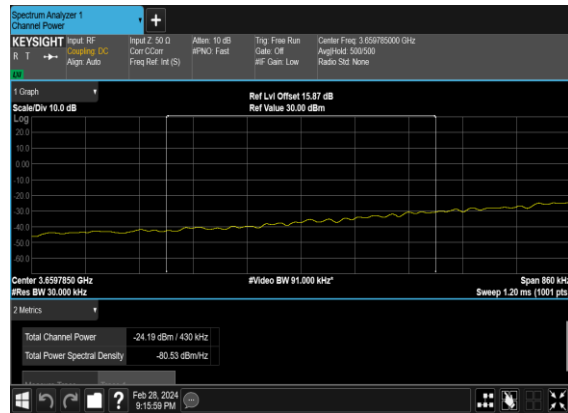
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OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



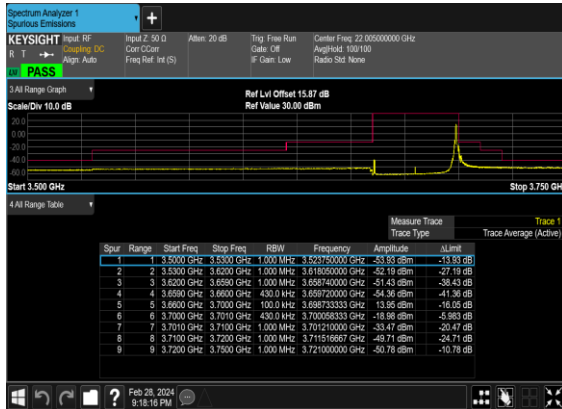
N48(40M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



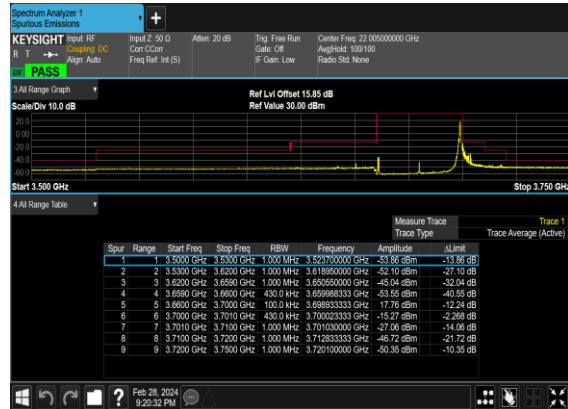
N48(40M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH\_CHP\_PA  
SS



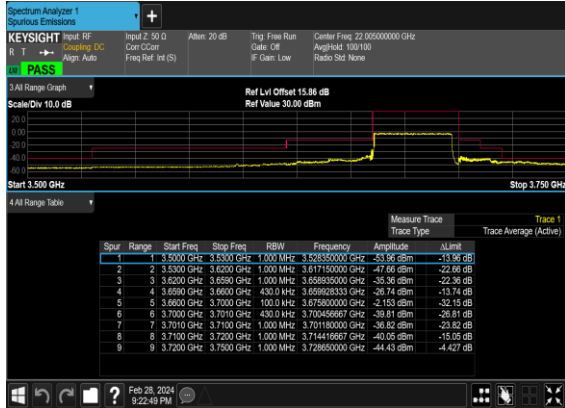
N48(40M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



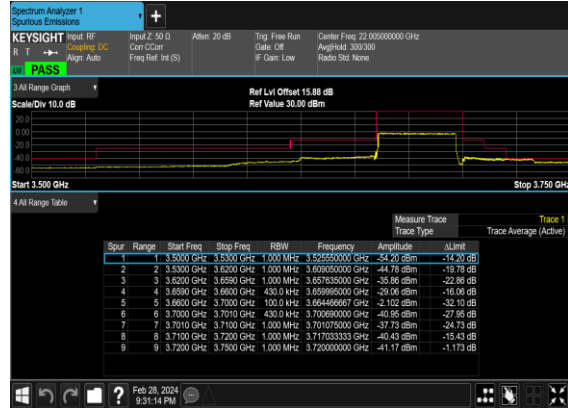
N48(40M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



## N48(40M)\_DFT-s- OFDM\_BPSK\_Outer\_Full\_High\_CH



## N48(40M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N48 MIMO

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub> - L<sub>C</sub>)= -2.2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT3 Power(dBm)	ANT6 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
48	30	10	637000	3555	CP-OFDM QPSK	1@1	19.25	18.8	22.04	19.84	0.0964
48	30	10	637000	3555	CP-OFDM 16 QAM	1@1	18.62	18	21.33	19.13	0.0818
48	30	10	641666	3624.99	CP-OFDM QPSK	1@1	18.58	18.09	21.35	19.15	0.0822
48	30	10	641666	3624.99	CP-OFDM 16 QAM	1@1	18.11	17.28	20.73	18.53	0.0713
48	30	10	646332	3694.98	CP-OFDM QPSK	1@1	18.91	19.04	21.99	19.79	0.0953
48	30	10	646332	3694.98	CP-OFDM 16 QAM	1@1	18.22	18.29	21.27	19.07	0.0807
48	30	15	637168	3557.52	CP-OFDM QPSK	1@1	19.27	18.76	22.03	19.83	0.0962
48	30	15	637168	3557.52	CP-OFDM 16 QAM	1@1	18.55	17.98	21.28	19.08	0.0809
48	30	15	641666	3624.99	CP-OFDM QPSK	1@1	18.83	18	21.45	19.25	0.0841
48	30	15	641666	3624.99	CP-OFDM 16 QAM	1@1	18.14	17.23	20.72	18.52	0.0711
48	30	15	646166	3692.49	CP-OFDM QPSK	1@1	18.98	18.73	21.87	19.67	0.0927
48	30	15	646166	3692.49	CP-OFDM 16 QAM	1@1	18.26	18.04	21.16	18.96	0.0787
48	30	20	637334	3560.01	CP-OFDM QPSK	1@1	19.22	18.93	22.09	19.89	0.0975
48	30	20	637334	3560.01	CP-OFDM 16 QAM	1@1	18.45	17.99	21.24	19.04	0.0802
48	30	20	641666	3624.99	CP-OFDM QPSK	1@1	18.71	18.11	21.43	19.23	0.0838
48	30	20	641666	3624.99	CP-OFDM 16 QAM	1@1	18.11	17.27	20.72	18.52	0.0711
48	30	20	646000	3690	CP-OFDM QPSK	1@1	18.78	18.64	21.72	19.52	0.0895
48	30	20	646000	3690	CP-OFDM 16 QAM	1@1	18.14	17.82	20.99	18.79	0.0757
48	30	30	637668	3565.02	CP-OFDM QPSK	1@1	18.92	18.46	21.71	19.51	0.0893
48	30	30	637668	3565.02	CP-OFDM 16 QAM	1@1	18.49	18.06	21.29	19.09	0.0811
48	30	30	641666	3624.99	CP-OFDM QPSK	1@1	18.86	18.47	21.68	19.48	0.0887
48	30	30	641666	3624.99	CP-OFDM 16 QAM	1@1	18.4	17.89	21.16	18.96	0.0787
48	30	30	645666	3684.99	CP-OFDM QPSK	1@1	18.98	18.47	21.74	19.54	0.0899
48	30	30	645666	3684.99	CP-OFDM 16 QAM	1@1	18.25	17.68	20.98	18.78	0.0755
48	30	40	638000	3570	CP-OFDM QPSK	53@26	19.02	19.03	22.04	19.84	0.0964
48	30	40	638000	3570	CP-OFDM QPSK	1@1	19.24	18.97	22.12	19.92	0.0982
48	30	40	638000	3570	CP-OFDM QPSK	1@104	18.82	18.71	21.78	19.58	0.0908
48	30	40	638000	3570	CP-OFDM 16 QAM	53@26	18.56	18.52	21.55	19.35	0.0861
48	30	40	638000	3570	CP-OFDM 16 QAM	1@1	18.61	18.12	21.38	19.18	0.0828

48	30	40	638000	3570	CP-OFDM 16 QAM	1@104	18.29	18.13	21.22	19.02	0.0798
48	30	40	638000	3570	CP-OFDM 64 QAM	53@26	16.45	16.52	19.50	17.3	0.0537
48	30	40	638000	3570	CP-OFDM 64 QAM	1@1	16.61	16.1	19.37	17.17	0.0521
48	30	40	638000	3570	CP-OFDM 64 QAM	1@104	16.14	15.99	19.08	16.88	0.0488
48	30	40	638000	3570	CP-OFDM 256 QAM	53@26	14.17	14.12	17.16	14.96	0.0313
48	30	40	638000	3570	CP-OFDM 256 QAM	1@1	14.33	13.89	17.13	14.93	0.0311
48	30	40	638000	3570	CP-OFDM 256 QAM	1@104	13.88	13.86	16.88	14.68	0.0294
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	18.77	17.87	21.35	19.15	0.0822
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	18.74	18.47	21.62	19.42	0.0875
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	18.73	17.58	21.20	19	0.0794
48	30	40	641666	3624.99	CP-OFDM 16 QAM	53@26	18.25	17.41	20.86	18.66	0.0735
48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@1	18.03	17.61	20.84	18.64	0.0731
48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@104	18.01	16.92	20.51	18.31	0.0678
48	30	40	641666	3624.99	CP-OFDM 64 QAM	53@26	16.17	15.26	18.75	16.55	0.0452
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@1	16.22	15.58	18.92	16.72	0.0470
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@104	16.06	14.85	18.51	16.31	0.0428
48	30	40	641666	3624.99	CP-OFDM 256 QAM	53@26	13.96	12.96	16.50	14.3	0.0269
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@1	13.9	13.64	16.78	14.58	0.0287
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@104	13.59	12.66	16.16	13.96	0.0249
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	18.86	18.35	21.62	19.42	0.0875
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	18.69	18.05	21.39	19.19	0.0830
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	18.9	19.27	22.10	19.9	0.0977
48	30	40	645332	3679.98	CP-OFDM 16 QAM	53@26	18.31	18.04	21.19	18.99	0.0793
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@1	18.02	17.37	20.72	18.52	0.0711
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@104	18.17	18.56	21.38	19.18	0.0828
48	30	40	645332	3679.98	CP-OFDM 64 QAM	53@26	16.19	15.94	19.08	16.88	0.0488
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@1	16.15	15.29	18.75	16.55	0.0452
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@104	16.35	16.44	19.41	17.21	0.0526
48	30	40	645332	3679.98	CP-OFDM 256 QAM	53@26	13.88	13.5	16.70	14.5	0.0282
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@1	13.7	13.03	16.39	14.19	0.0262
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@104	13.83	14.15	17.00	14.8	0.0302

# FR1 N48 MIMO-ANT(4+8)\_ANT4

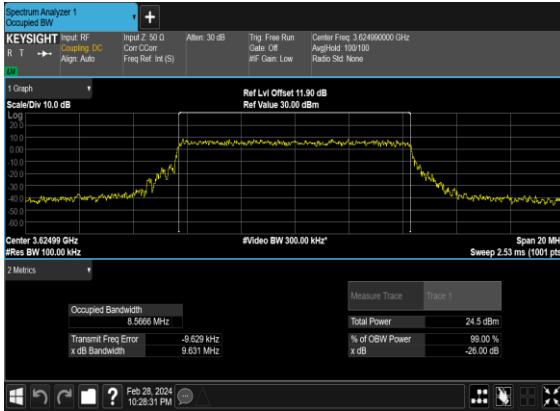
## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0063	PASS	NV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0023	PASS	LV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0064	PASS	HV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0050	PASS	-30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0034	PASS	-20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0068	PASS	-10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0035	PASS	0°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0059	PASS	10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0063	PASS	20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0029	PASS	30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0040	PASS	40°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0062	PASS	50°C

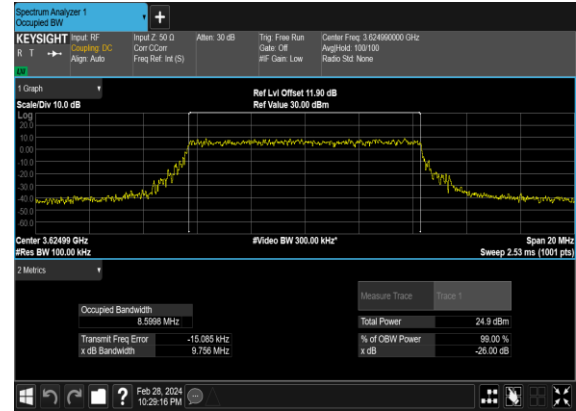
## Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5666	9.631
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5998	9.756
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5713	9.604
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5854	9.478
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.591	14.7
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.556	14.62
48	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.642	14.48
48	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.602	14.31
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.162	19.4
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.218	19.43
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.237	19.36
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.213	19.67
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.861	29.71
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.864	28.88
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.806	29.08
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.855	28.8
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.919	39.96
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.812	39.37
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.855	39.24
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.927	39.59

### N48(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N48(10M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



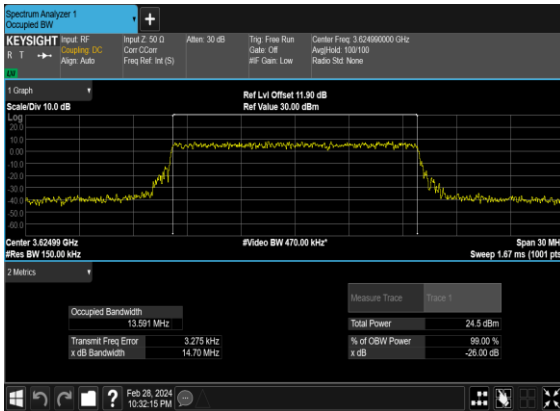
### N48(10M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



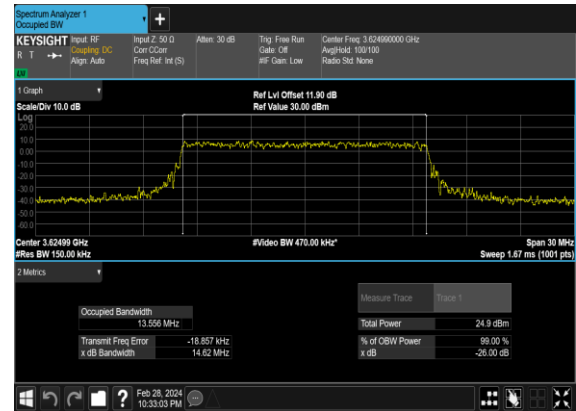
### N48(10M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



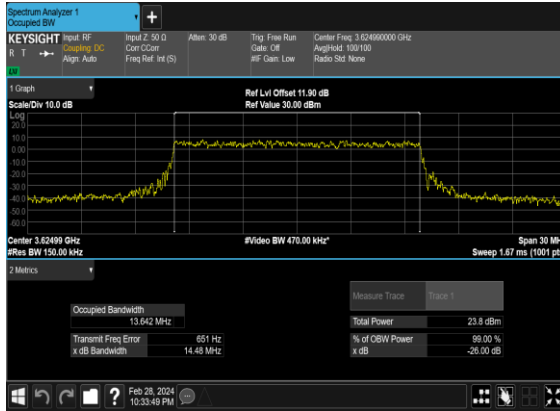
### N48(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



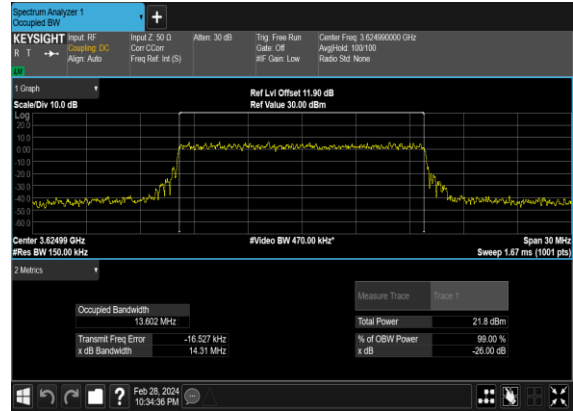
### N48(15M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



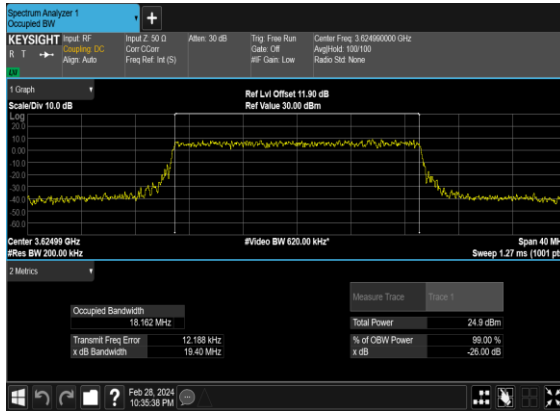
### N48(15M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



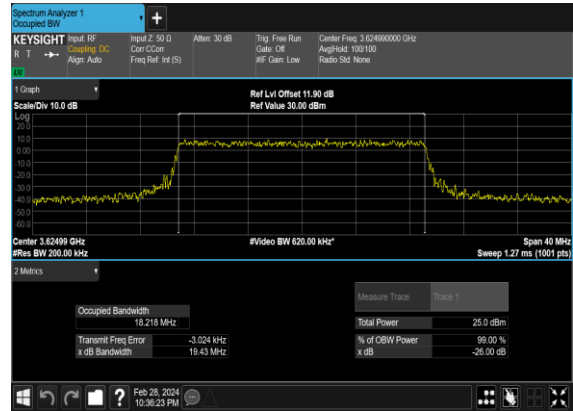
### N48(15M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



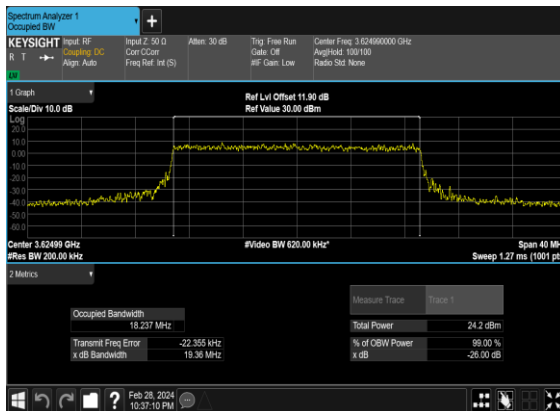
### N48(20M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N48(20M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



### N48(20M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N48(20M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

