



Software Version: 23.06.1602

### UL MIMO-N48-ANT(7+4)

### Transmitter Conducted Output Power and EIRP, (G<sub>T</sub> - L<sub>c</sub>)= -0.5dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT7 Power (dBm)	ANT4 Power (dBm)	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
48	30	10	637000	3555	CP-OFDM QPSK	1@1	17.74	18.88	21.36	20.86	0.1219
48	30	10	637000	3555	CP-OFDM 16 QAM	1@1	17.53	18.3	20.94	20.44	0.1107
48	30	10	641666	3624.99	CP-OFDM QPSK	1@1	17.86	18.68	21.30	20.8	0.1202
48	30	10	641666	3624.99	CP-OFDM 16 QAM	1@1	17.8	18.14	20.98	20.48	0.1117
48	30	10	646332	3694.98	CP-OFDM QPSK	1@1	17.91	18.77	21.37	20.87	0.1222
48	30	10	646332	3694.98	CP-OFDM 16 QAM	1@1	17.93	18.22	21.09	20.59	0.1146
48	30	20	637334	3560.01	CP-OFDM QPSK	1@1	17.94	19.13	21.59	21.09	0.1285
48	30	20	637334	3560.01	CP-OFDM 16 QAM	1@1	17.88	18.61	21.27	20.77	0.1194
48	30	20	641666	3624.99	CP-OFDM QPSK	1@1	18.02	18.87	21.48	20.98	0.1253
48	30	20	641666	3624.99	CP-OFDM 16 QAM	1@1	17.74	18.22	21.00	20.5	0.1122
48	30	20	646000	3690	CP-OFDM QPSK	1@1	18	18.82	21.44	20.94	0.1242
48	30	20	646000	3690	CP-OFDM 16 QAM	1@1	17.85	18.17	21.02	20.52	0.1127
48	30	30	637668	3565.02	CP-OFDM QPSK	1@1	17.95	19.24	21.65	21.15	0.1303
48	30	30	637668	3565.02	CP-OFDM 16 QAM	1@1	17.69	18.61	21.18	20.68	0.1169
48	30	30	641666	3624.99	CP-OFDM QPSK	1@1	18.18	18.99	21.61	21.11	0.1291
48	30	30	641666	3624.99	CP-OFDM 16 QAM	1@1	17.87	18.36	21.13	20.63	0.1156
48	30	30	645666	3684.99	CP-OFDM QPSK	1@1	18.06	18.97	21.55	21.05	0.1274
48	30	30	645666	3684.99	CP-OFDM 16 QAM	1@1	17.78	18.37	21.10	20.6	0.1148
48	30	40	638000	3570	CP-OFDM QPSK	53@26	18	18.94	21.51	21.01	0.1262
48	30	40	638000	3570	CP-OFDM QPSK	1@1	17.96	19.24	21.66	21.16	0.1306
48	30	40	638000	3570	CP-OFDM QPSK	1@104	17.96	18.83	21.43	20.93	0.1239
48	30	40	638000	3570	CP-OFDM 16 QAM	53@26	17.48	18.48	21.02	20.52	0.1127
48	30	40	638000	3570	CP-OFDM 16 QAM	1@1	17.75	18.82	21.33	20.83	0.1211
48	30	40	638000	3570	CP-OFDM 16 QAM	1@104	17.77	18.29	21.05	20.55	0.1135
48	30	40	638000	3570	CP-OFDM 64 QAM	53@26	15.93	16.9	19.45	18.95	0.0785
48	30	40	638000	3570	CP-OFDM 64 QAM	1@1	16.03	17.05	19.58	19.08	0.0809
48	30	40	638000	3570	CP-OFDM 64 QAM	1@104	16.15	16.52	19.35	18.85	0.0767
48	30	40	638000	3570	CP-OFDM 256 QAM	53@26	13.27	13.98	16.65	16.15	0.0412
48	30	40	638000	3570	CP-OFDM 256 QAM	1@1	13.33	14.3	16.85	16.35	0.0432
48	30	40	638000	3570	CP-OFDM 256 QAM	1@104	13.35	13.85	16.62	16.12	0.0409
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	17.92	18.74	21.36	20.86	0.1219
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	18.06	18.99	21.56	21.06	0.1276
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	17.94	18.82	21.41	20.91	0.1233
48	30	40	641666	3624.99	CP-OFDM 16 QAM	53@26	17.44	18.34	20.92	20.42	0.1102
48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@1	18.11	18.49	21.31	20.81	0.1205



48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@104	17.7	18.37	21.06	20.56	0.1138
48	30	40	641666	3624.99	CP-OFDM 64 QAM	53@26	15.96	16.72	19.37	18.87	0.0771
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@1	16.16	16.83	19.52	19.02	0.0798
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@104	15.97	16.59	19.30	18.8	0.0759
48	30	40	641666	3624.99	CP-OFDM 256 QAM	53@26	13.19	13.73	16.48	15.98	0.0396
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@1	13.43	14.06	16.77	16.27	0.0424
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@104	13.31	13.79	16.57	16.07	0.0405
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	17.97	18.92	21.48	20.98	0.1253
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	18.01	18.88	21.48	20.98	0.1253
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	18.19	18.9	21.57	21.07	0.1279
48	30	40	645332	3679.98	CP-OFDM 16 QAM	53@26	17.5	18.44	21.01	20.51	0.1125
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@1	17.79	18.26	21.04	20.54	0.1132
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@104	18.21	18.36	21.30	20.8	0.1202
48	30	40	645332	3679.98	CP-OFDM 64 QAM	53@26	16.03	16.81	19.45	18.95	0.0785
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@1	15.97	16.71	19.37	18.87	0.0771
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@104	16.25	16.64	19.46	18.96	0.0787
48	30	40	645332	3679.98	CP-OFDM 256 QAM	53@26	13.17	13.84	16.53	16.03	0.0401
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@1	13.32	13.86	16.61	16.11	0.0408
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@104	13.48	13.92	16.72	16.22	0.0419



# FR1 N48 MIMO-ANT4

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	16.5	PASS	NV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.9	PASS	LV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	11.4	PASS	HV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	13.6	PASS	-30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18	PASS	-20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	15.4	PASS	-10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	16.1	PASS	0°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	16.5	PASS	10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	17.5	PASS	20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	17	PASS	30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	14.8	PASS	40°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	14	PASS	50°C

$|\text{MAX}(\Delta f)| = 18.9 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$fL -  \text{MAX}(\Delta f) $	3550.77981	$\cong 3550 \text{ MHz}$	PASS
$fH +  \text{MAX}(\Delta f) $	3698.77227	$\cong 3700 \text{ MHz}$	

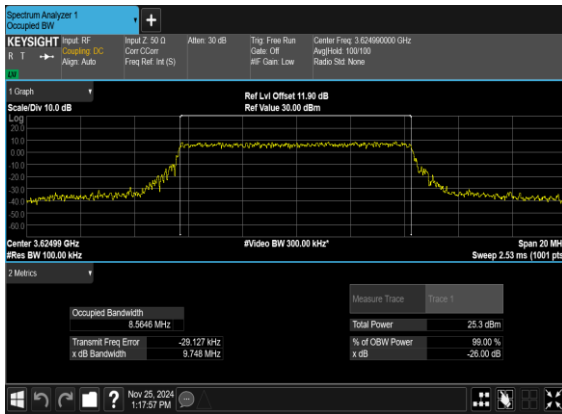


### Occupied Bandwidth

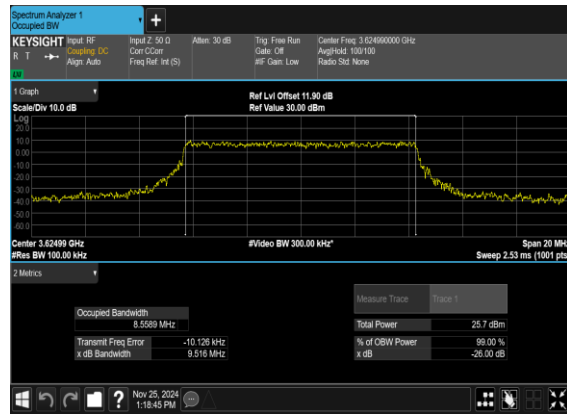
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5646	9.748
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5589	9.516
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5639	9.561
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5861	9.856
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.199	19.09
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.257	19.35
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.186	19.25
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.191	19.53
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.896	28.98
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.797	29.05
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.878	29.38
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.799	28.98
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.799	39.28
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.718	39.6
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.845	39.4
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.798	39.35



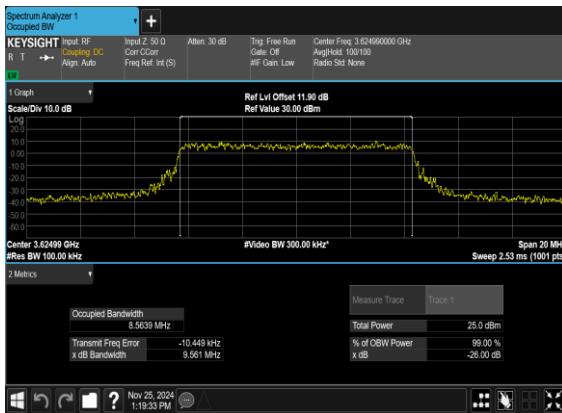
N48(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



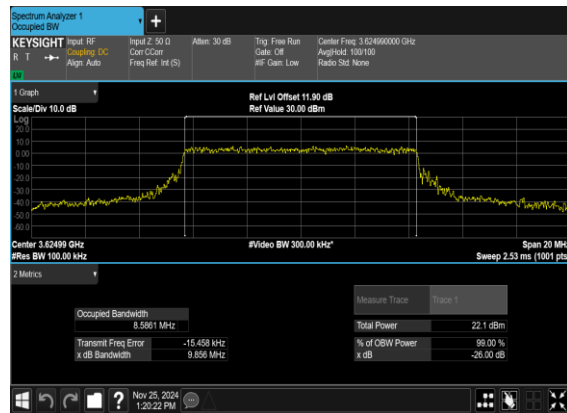
N48(10M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



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

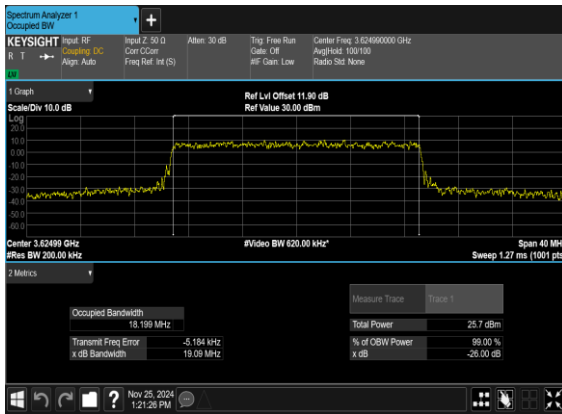


N48(10M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

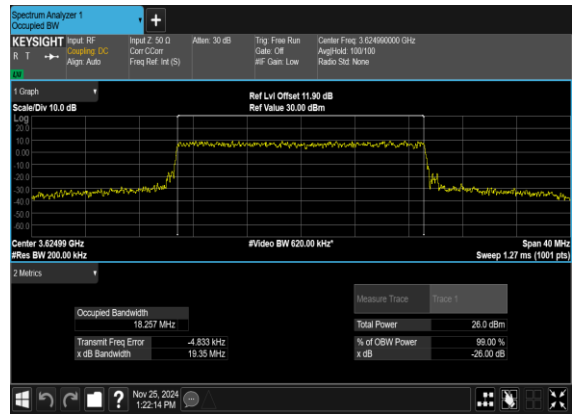




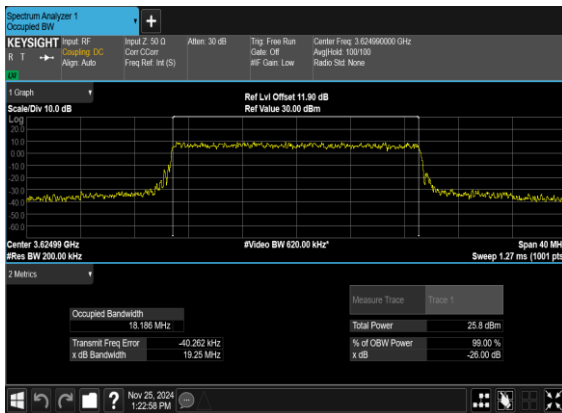
N48(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



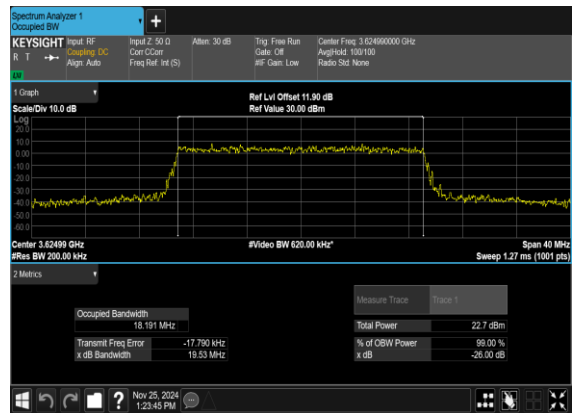
N48(20M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N48(20M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

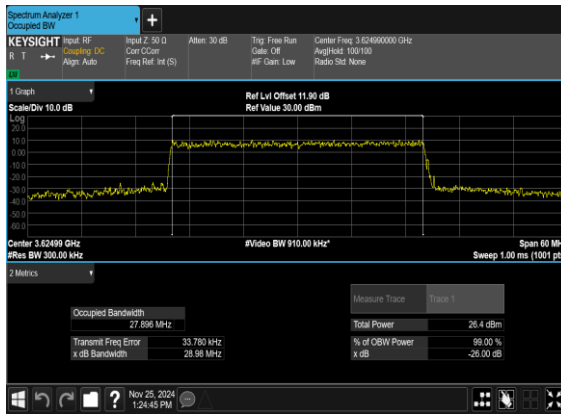


N48(20M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

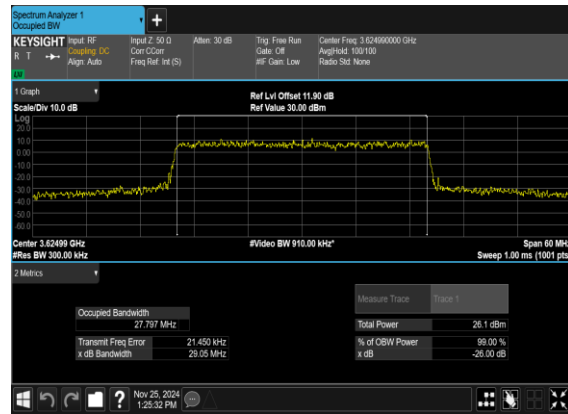




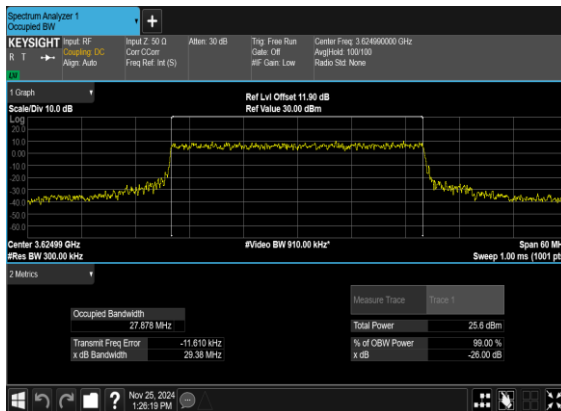
N48(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



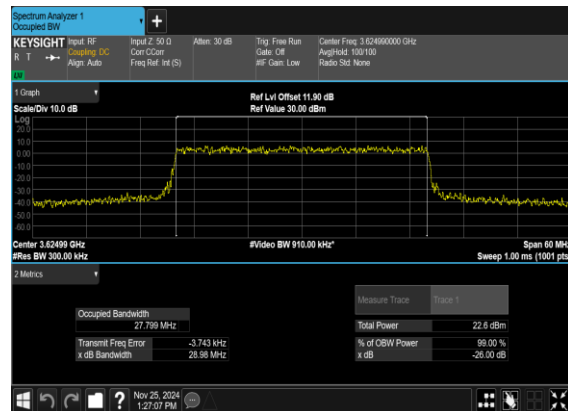
N48(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N48(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

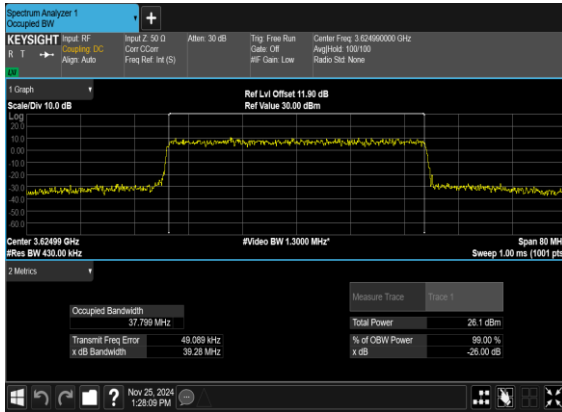


N48(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

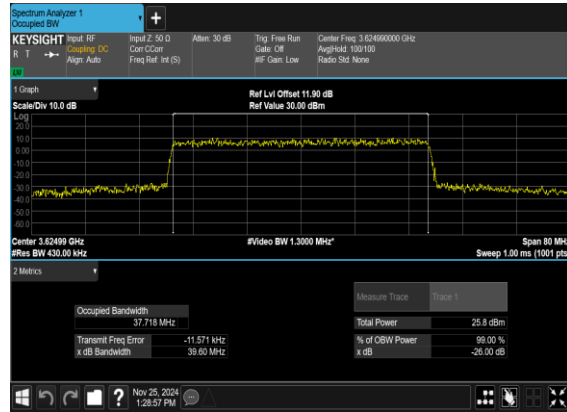




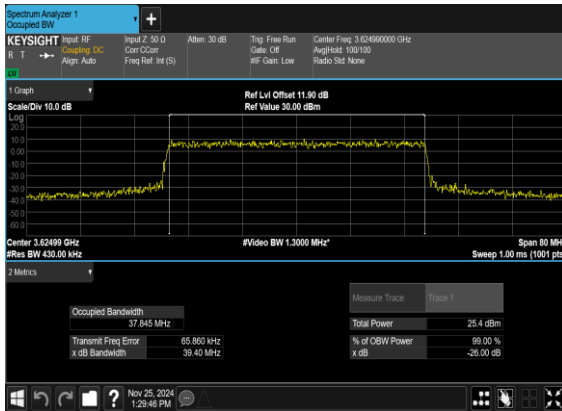
N48(40M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



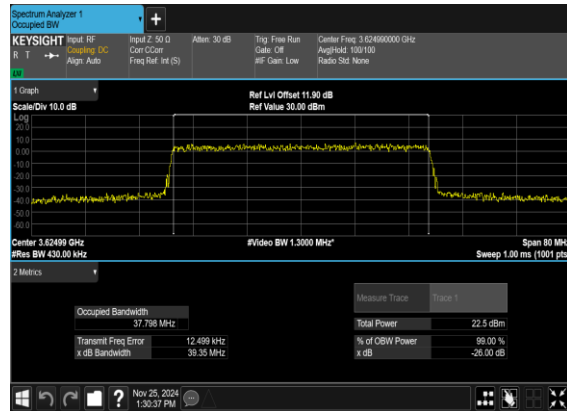
N48(40M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N48(40M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N48(40M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH





### Adjacent Channel Leakage Ratio

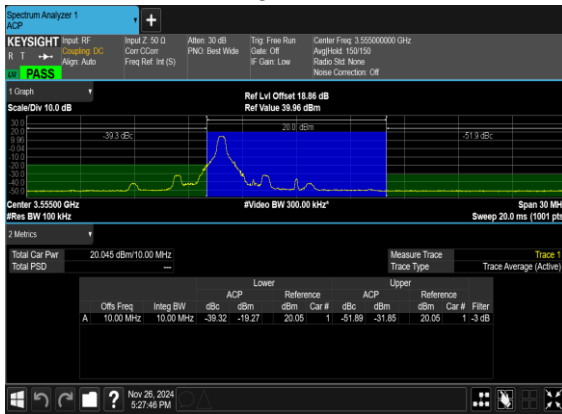
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	-9.32	-21.89	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	1@23	-21.87	-11.19	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	24@0	-11.87	-12.95	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	-9.03	-17.42	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@23	-17.61	-10.23	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	-11.49	-12.1	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	-8.38	-16.25	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@23	-16.07	-9.16	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	24@0	-11.27	-11.76	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	-9.92	-19.06	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@50	-18.8	-12.46	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	51@0	-13.79	-13.24	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	-10.53	-15.27	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@50	-15.56	-11.13	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	-11.59	-11.1	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	-9.22	-13.85	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@50	-13.98	-10.2	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	51@0	-11.53	-11.68	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	-10.59	-12.72	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@105	-13.87	-11.27	see graph	PASS



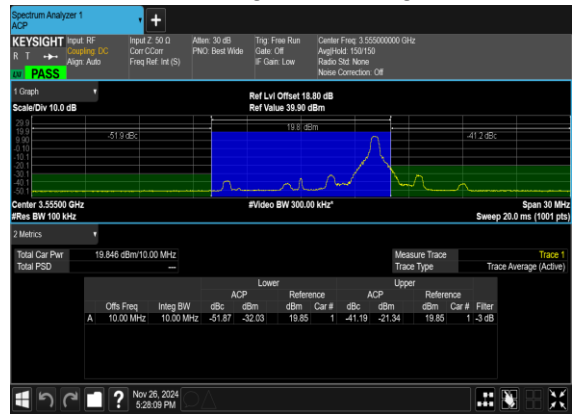
48	30	40	638000	3570.0	CP-OFDM QPSK	106@0	-10.68	-10.27	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	-9.87	-11.68	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@105	-13.62	-10.71	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	-9.96	-9.65	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	-9.34	-10.77	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@105	-12.22	-9.77	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	106@0	-9.99	-9.66	see graph	PASS



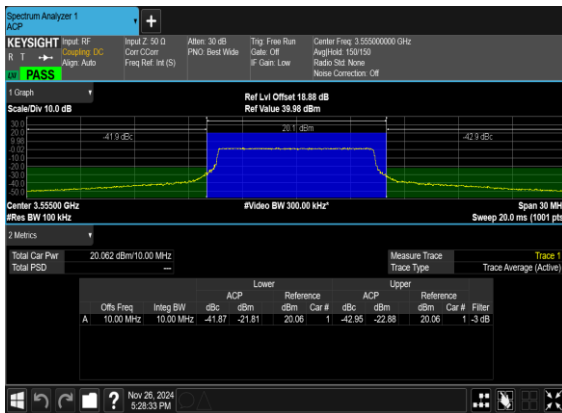
N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



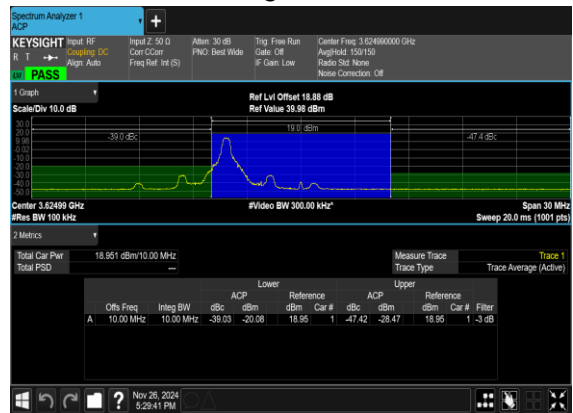
N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH



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

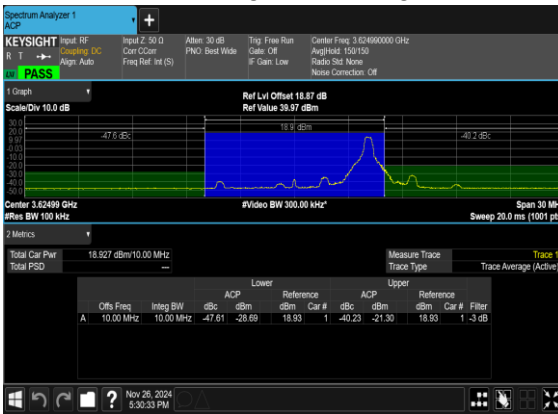


N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

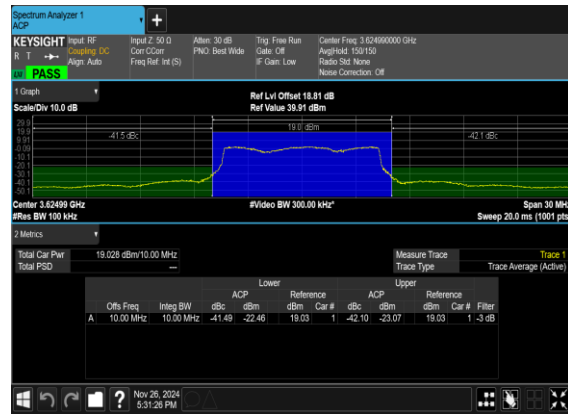




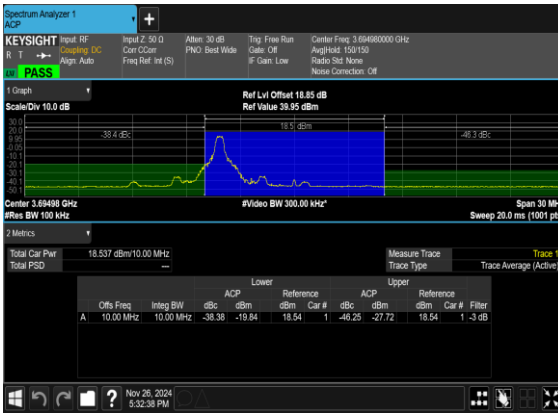
N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



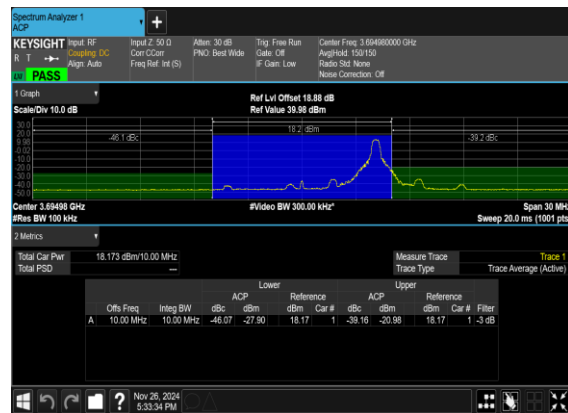
N48(10M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

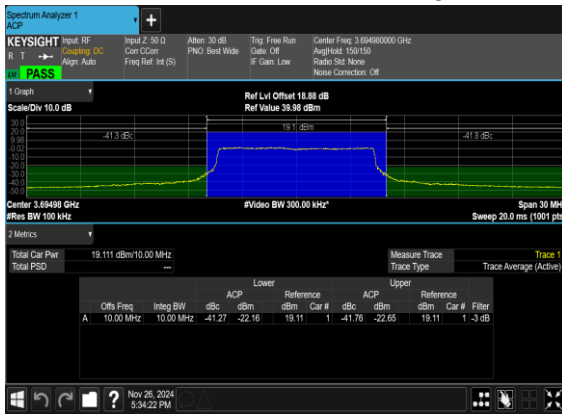


N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_C  
H

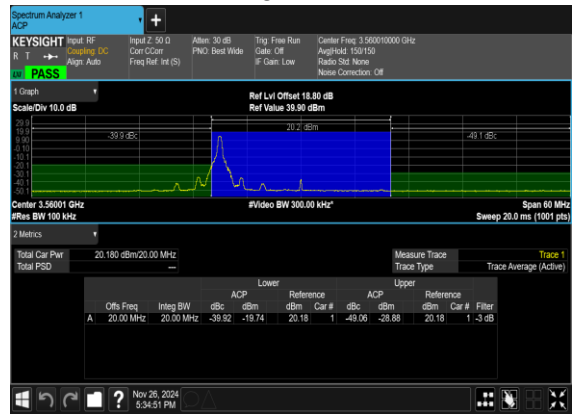




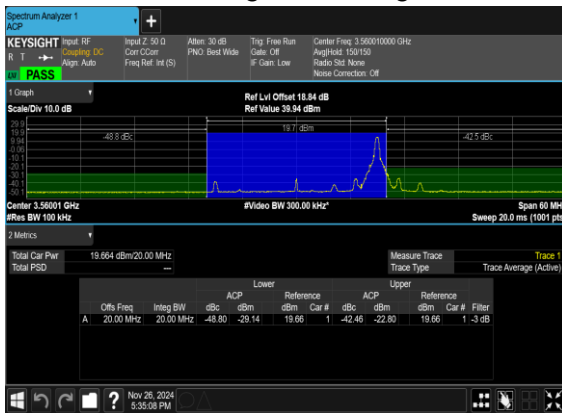
N48(10M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



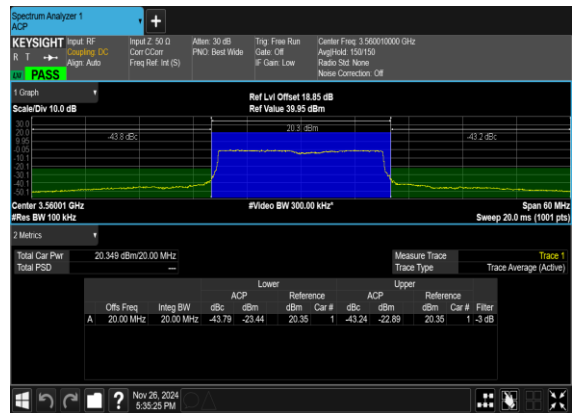
N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH



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





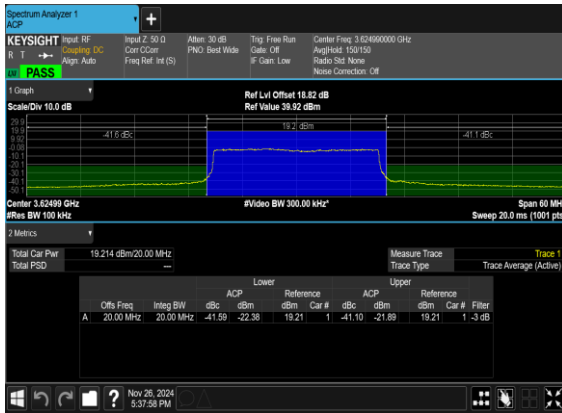
N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



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

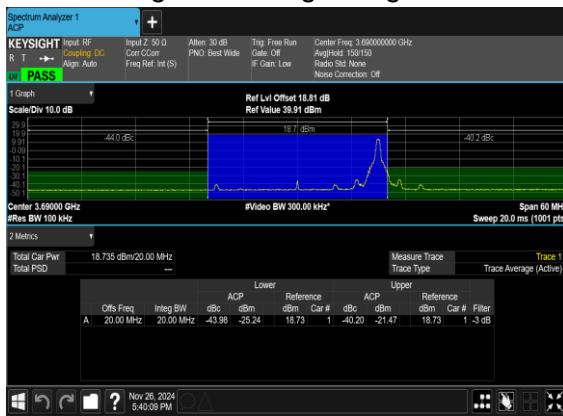


N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

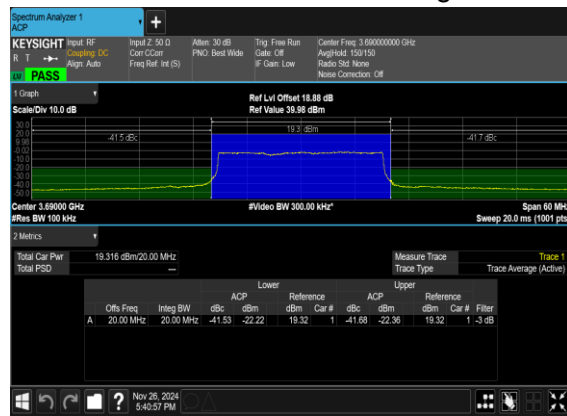




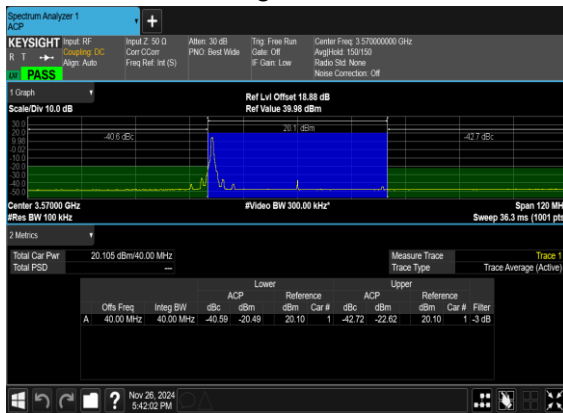
N48(20M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



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



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

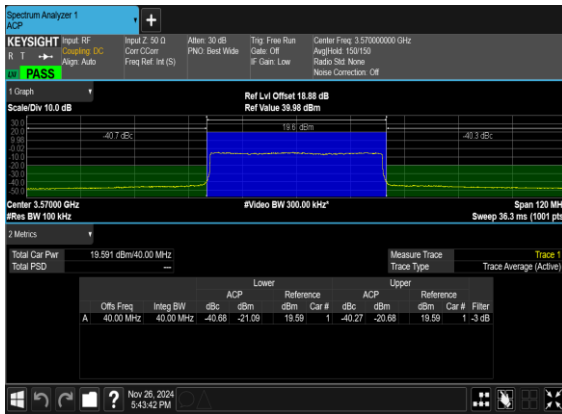


N48(40M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH





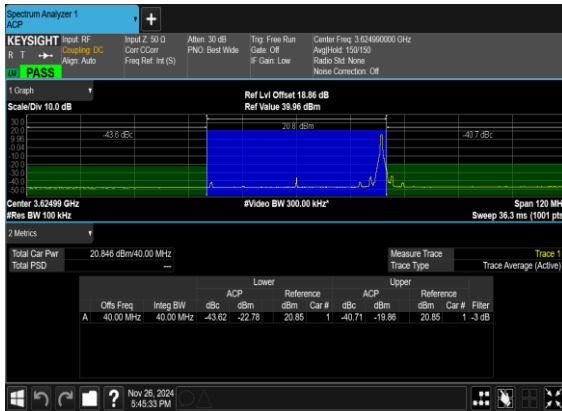
N48(40M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



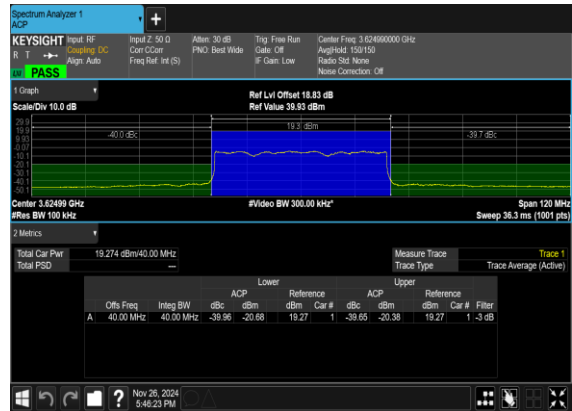
N48(40M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(40M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH

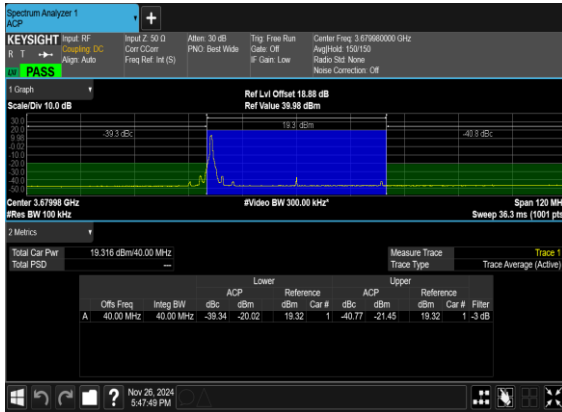


N48(40M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH





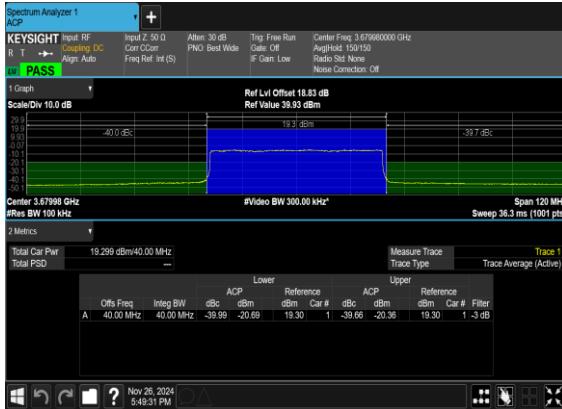
N48(40M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



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



N48(40M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH





### Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	---
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	---
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	---
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	---
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	---
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	PASS



48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	---
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>



N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



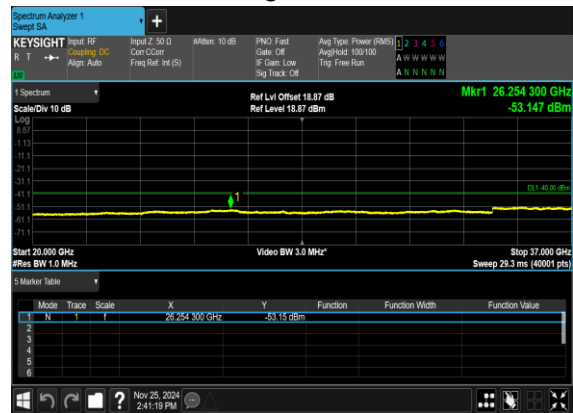
N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH





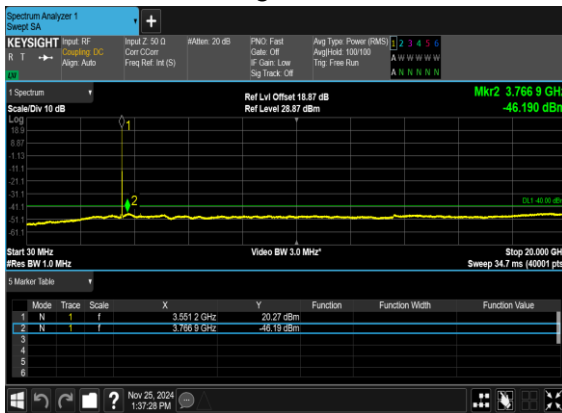
N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



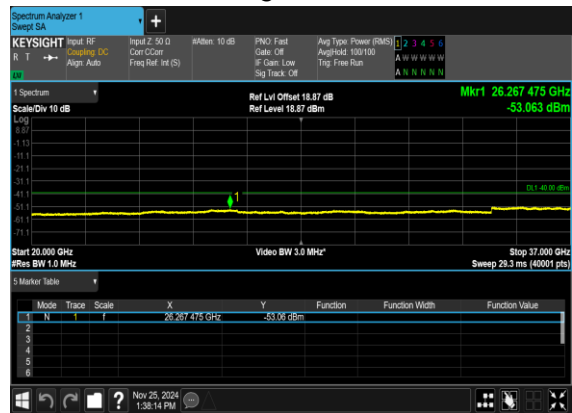
N48(10M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

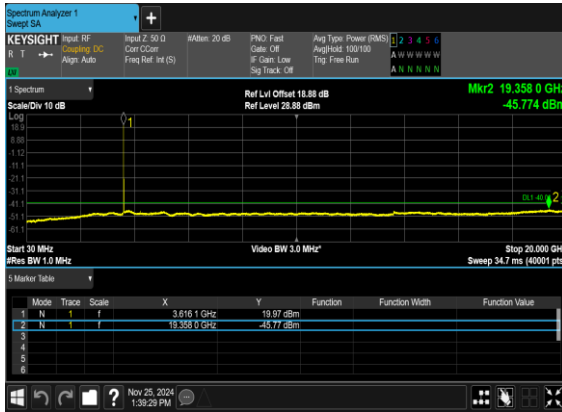


N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

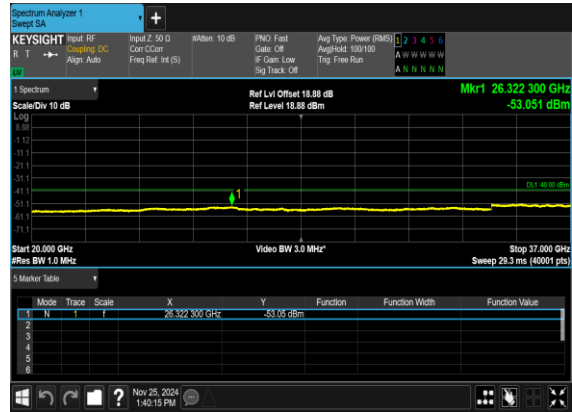




N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



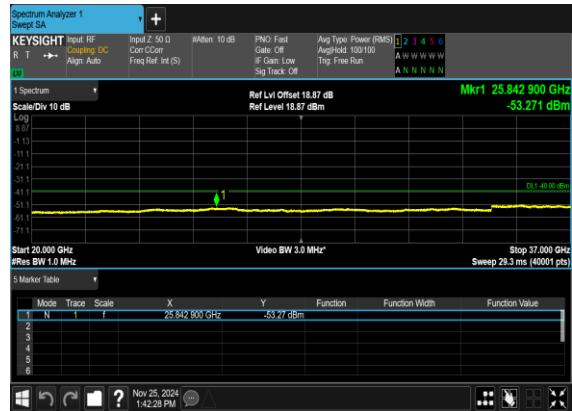
N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



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



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





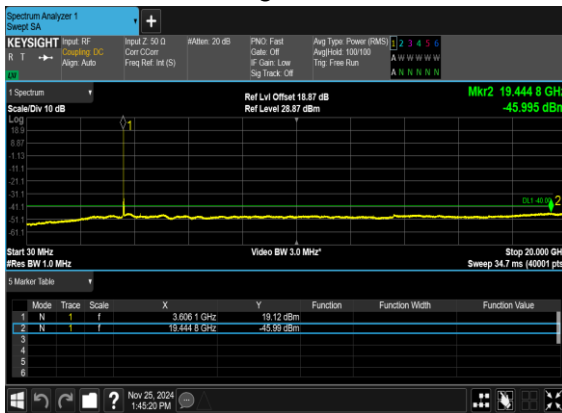
N48(40M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



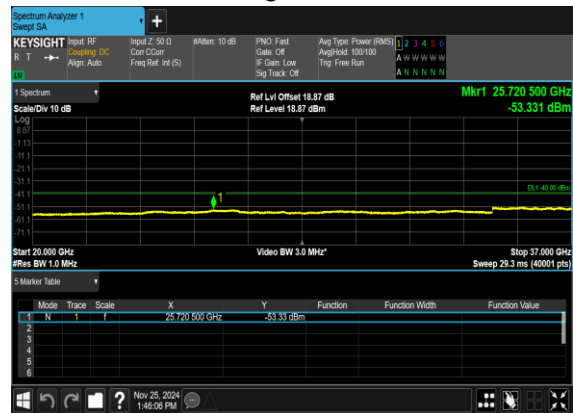
N48(40M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



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



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





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



N48(40M)\_CP-  
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	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	24@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	51@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	51@0	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	106@0	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@105	see graph	PASS

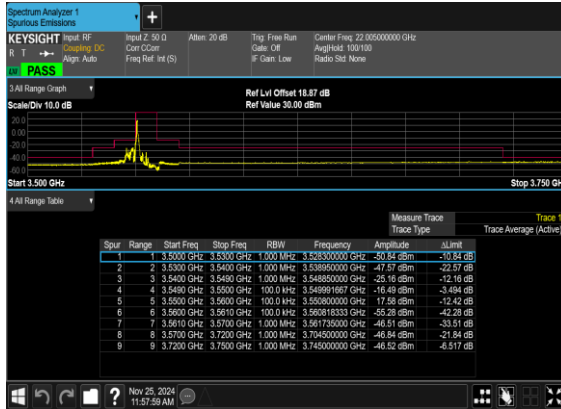


---

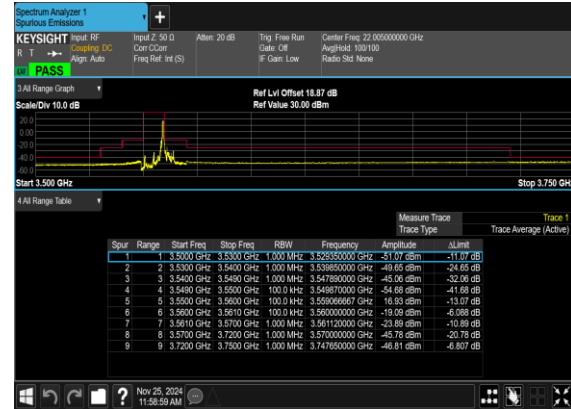
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	see graph	<b>PASS</b>
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
48	30	40	645332	3679.98	CP-OFDM QPSK	1@105	see graph	<b>PASS</b>
48	30	40	645332	3679.98	CP-OFDM QPSK	106@0	see graph	<b>PASS</b>



N48(10M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



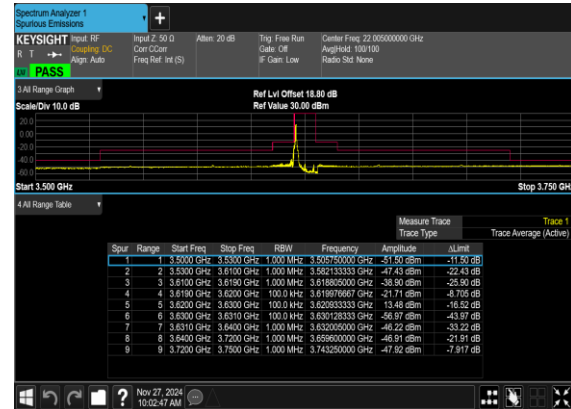
N48(10M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH



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

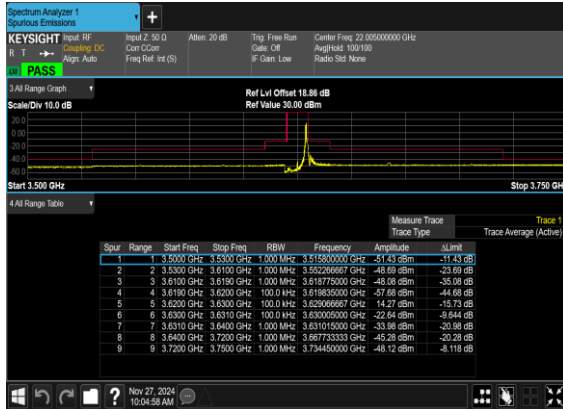


N48(10M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

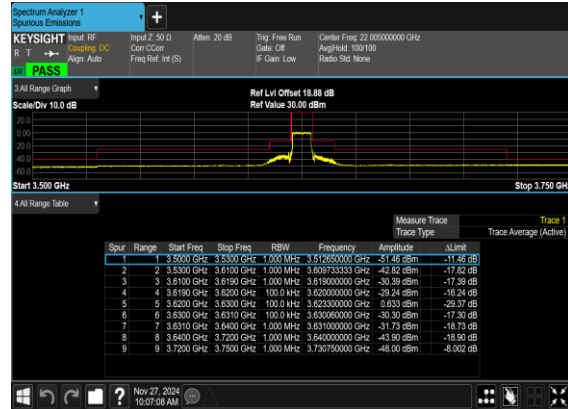




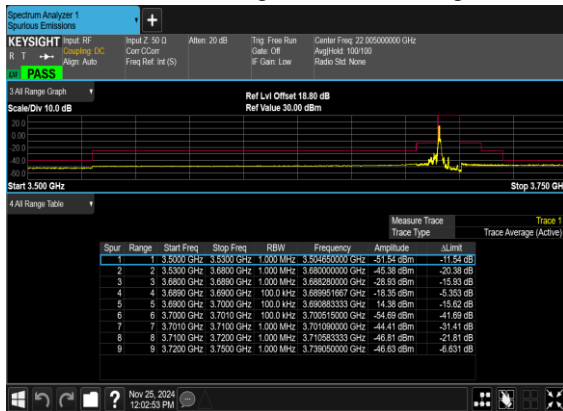
N48(10M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



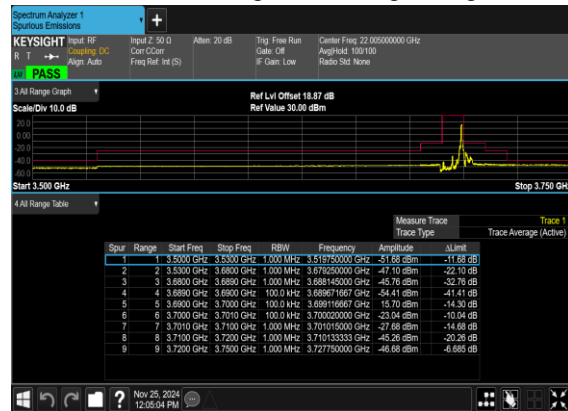
N48(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N48(10M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

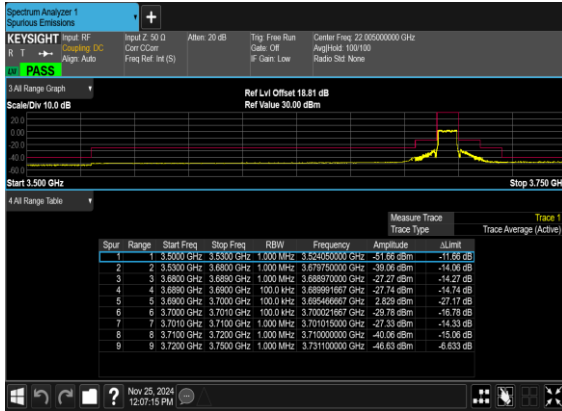


N48(10M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH

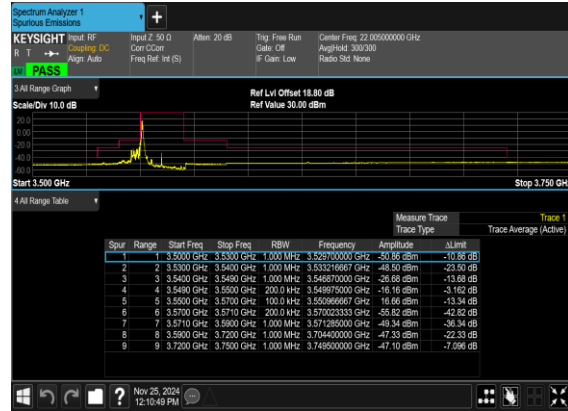




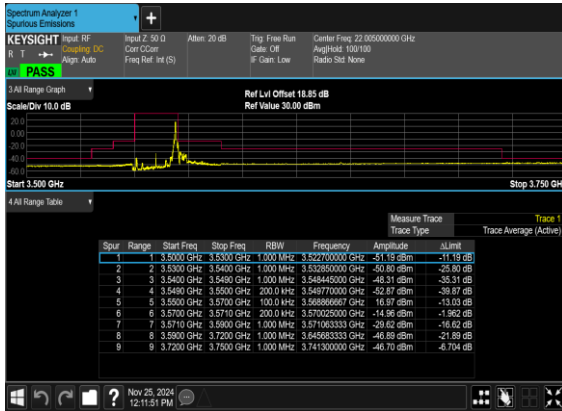
N48(10M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



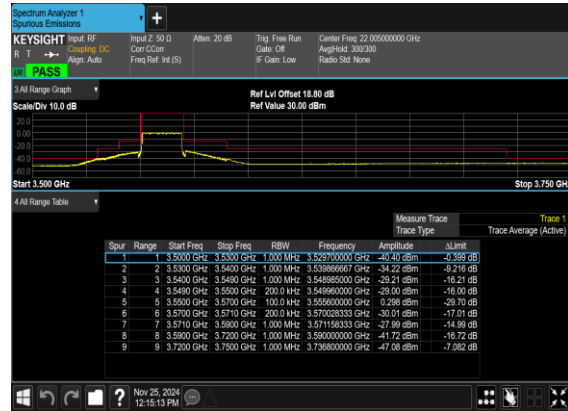
N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N48(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH

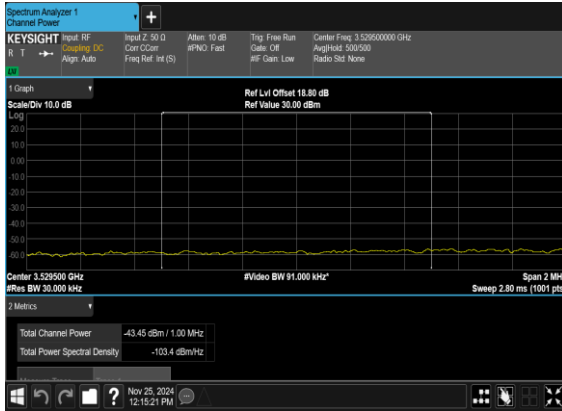


N48(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH

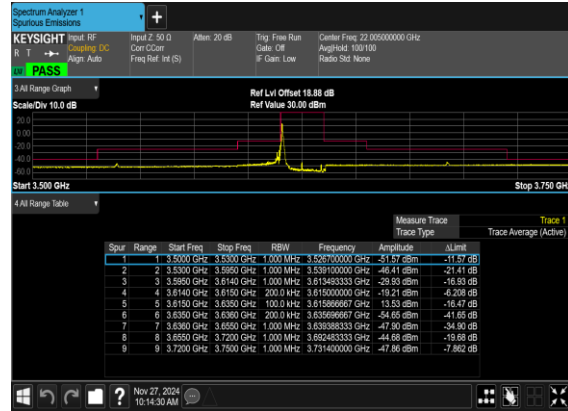




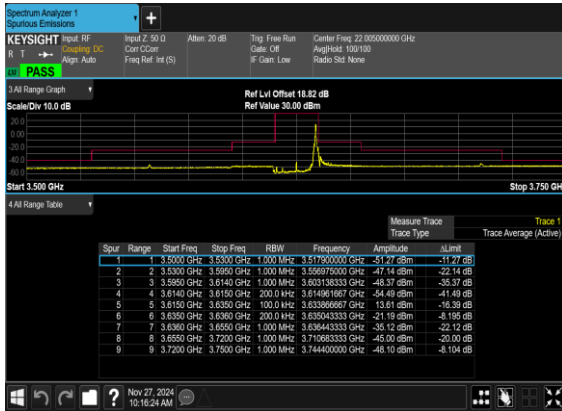
N48(20M)\_CP-
OFDM\_QPSK\_Outer\_Full\_Low\_CH\_CHP\_PASS



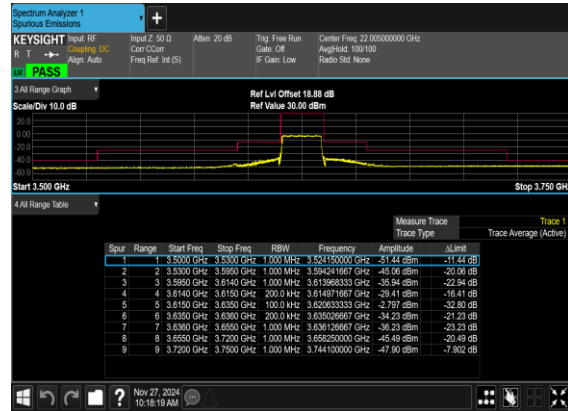
N48(20M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N48(20M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH

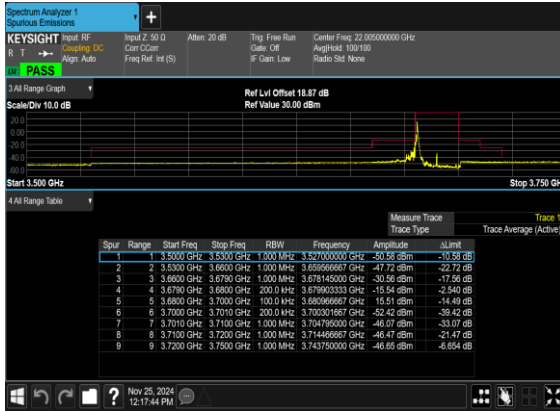


N48(20M)\_CP-
OFDM\_QPSK\_Outer\_Full\_Mid\_CH

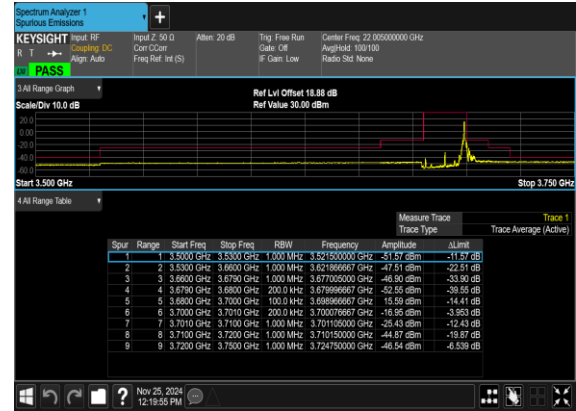




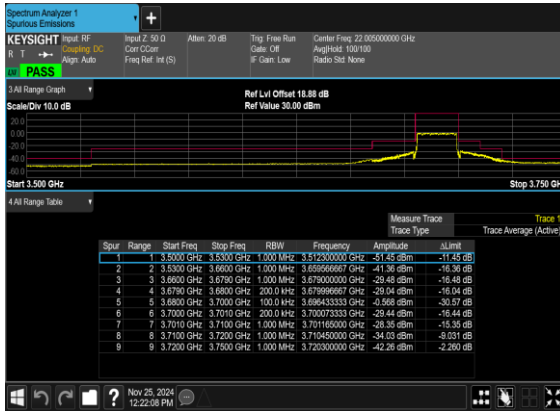
N48(20M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



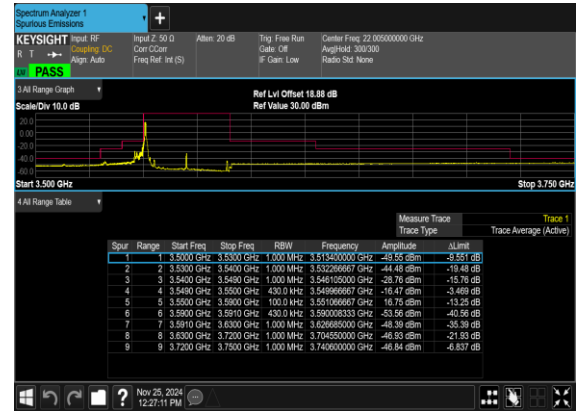
N48(20M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



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

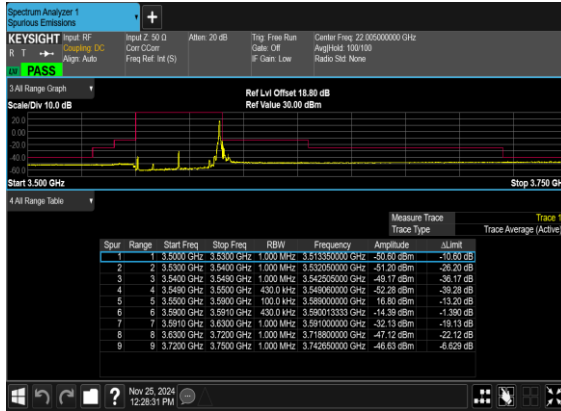


N48(40M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

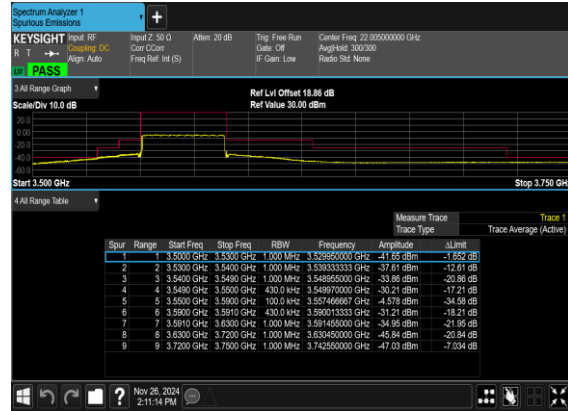




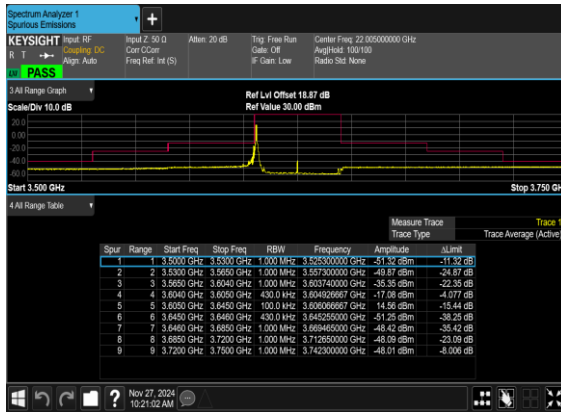
N48(40M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_Low\_CH



N48(40M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



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

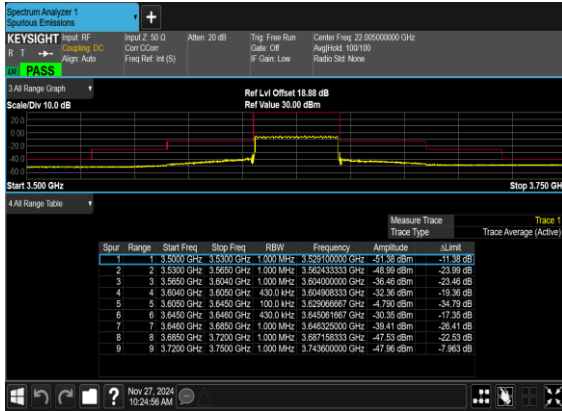


N48(40M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH

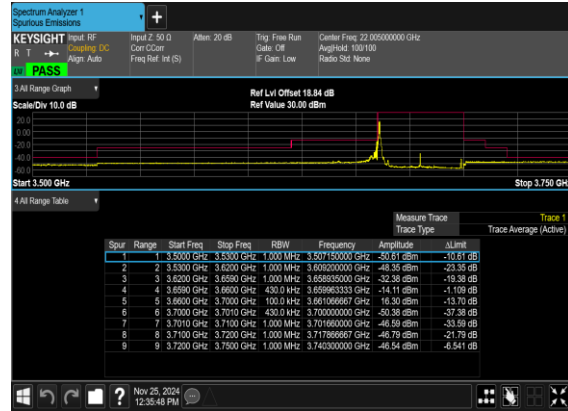




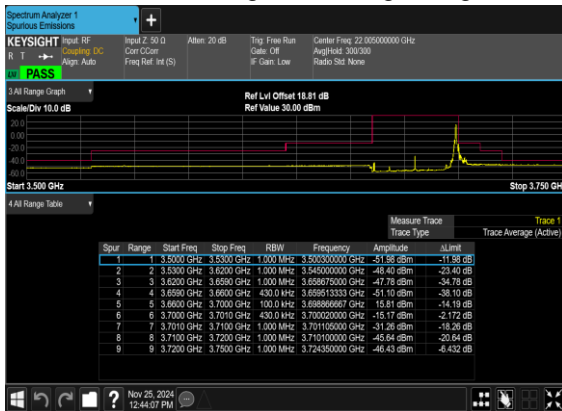
N48(40M)\_CP-
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



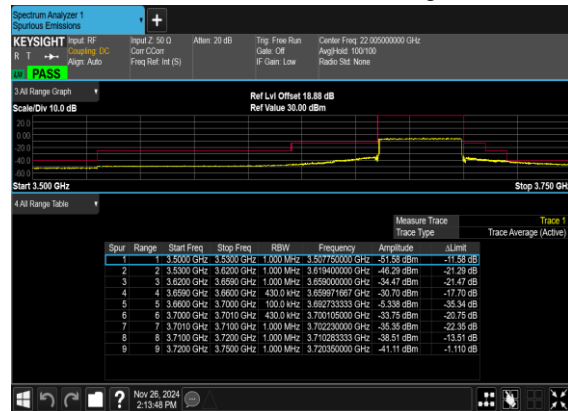
N48(40M)\_CP-
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



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



N48(40M)\_CP-
OFDM\_QPSK\_Outer\_Full\_High\_CH





# FR1 N48 MIMO-ANT7

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.2	PASS	NV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	11.2	PASS	LV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.8	PASS	HV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	11.1	PASS	-30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	10.5	PASS	-20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	12	PASS	-10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	16.7	PASS	0°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.2	PASS	10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	11.2	PASS	20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	12.4	PASS	30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	19.4	PASS	40°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	15.6	PASS	50°C

|MAX(Δf)| = 19.4 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL -  MAX(Δf)	3550.444982	≧ 3550 MHz	PASS
fH +  MAX(Δf)	3698.768718	≧ 3700 MHz	



### 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	8.5882	9.641
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5919	9.166
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5744	9.358
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5337	9.384
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.206	19.05
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.161	19.19
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.217	19.37
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.195	19.42
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.824	29.39
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.809	29.19
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.797	29.28
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.829	29.01
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.838	39.19
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.786	39.36
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.889	39.07
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.828	39.23