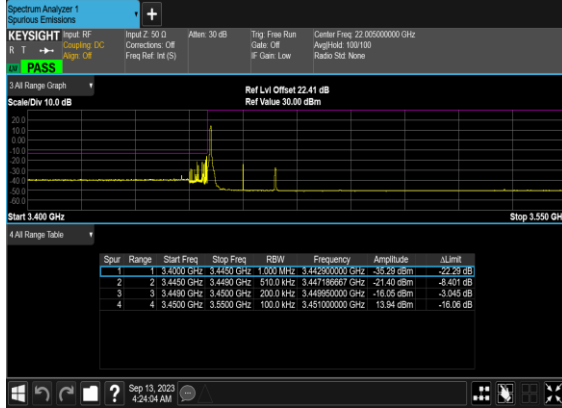
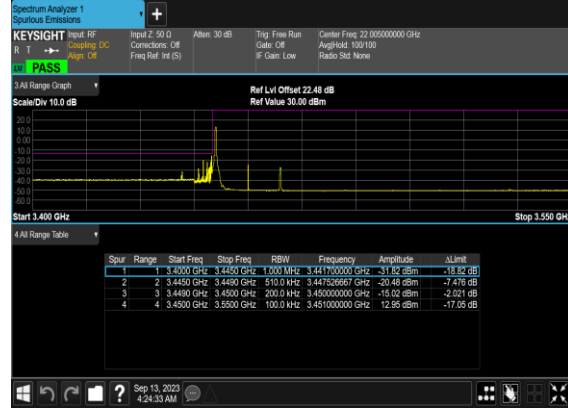


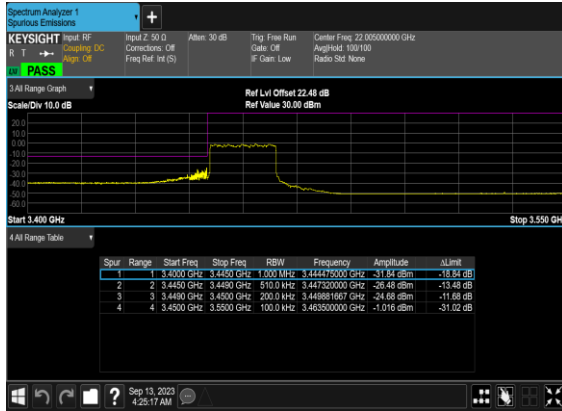
### N77(20M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



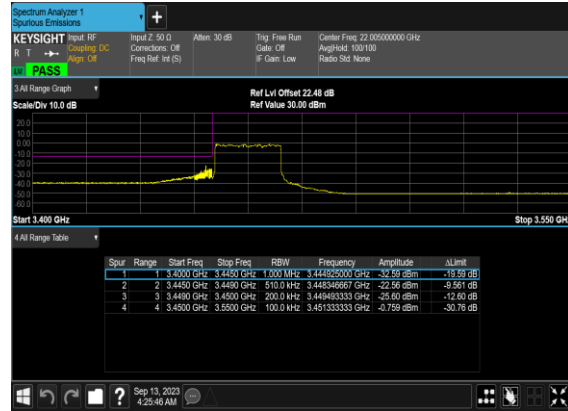
### N77(20M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



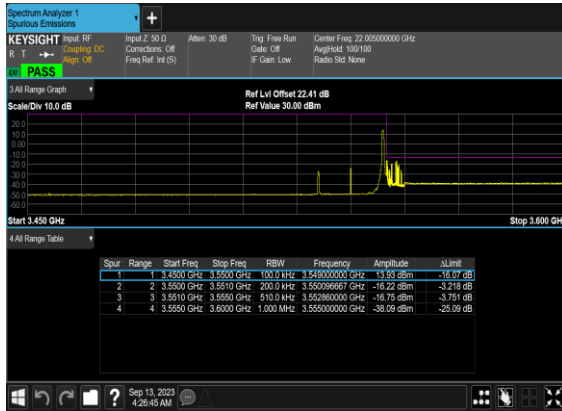
### N77(20M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



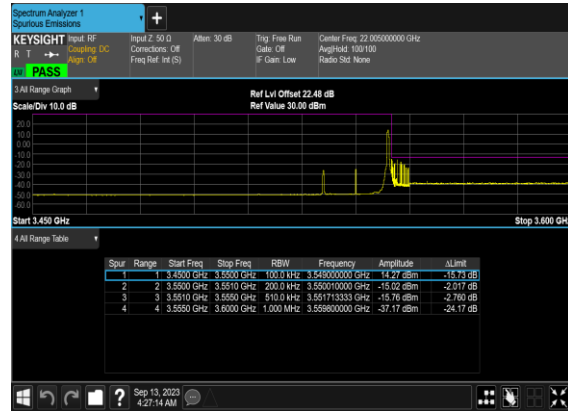
### N77(20M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Low\_CH



### N77(20M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



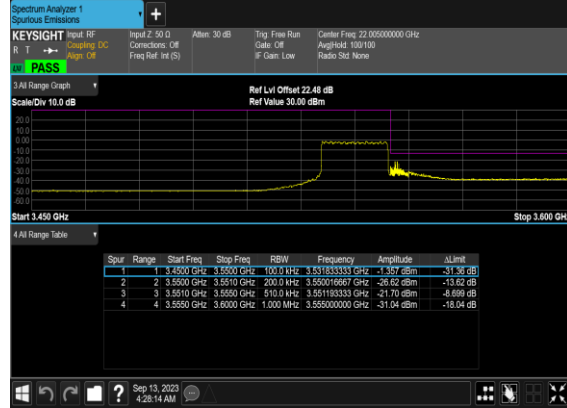
### N77(20M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Right\_High\_CH



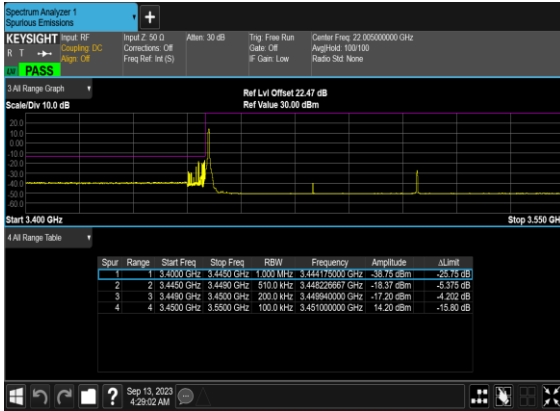
### N77(20M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



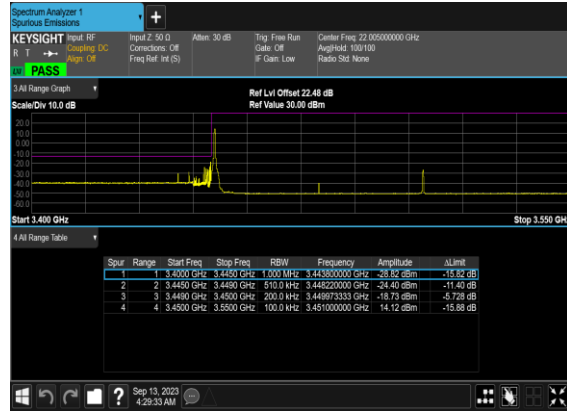
### N77(20M)\_CP-OFDM\_16 QAM\_Outer\_Full\_High\_CH



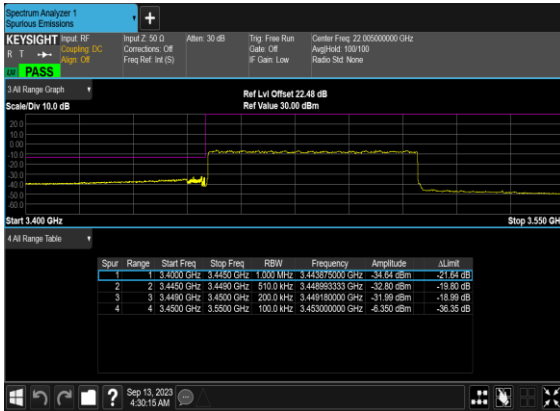
### N77(60M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



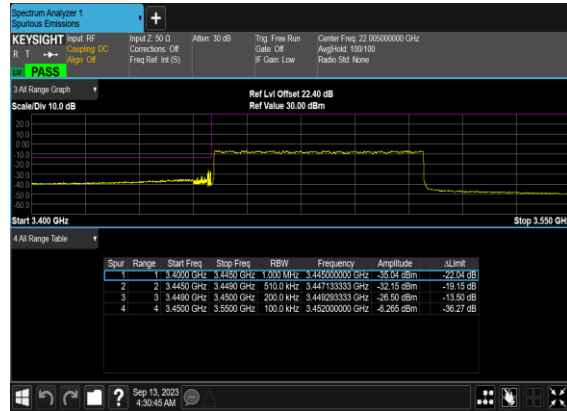
### N77(60M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



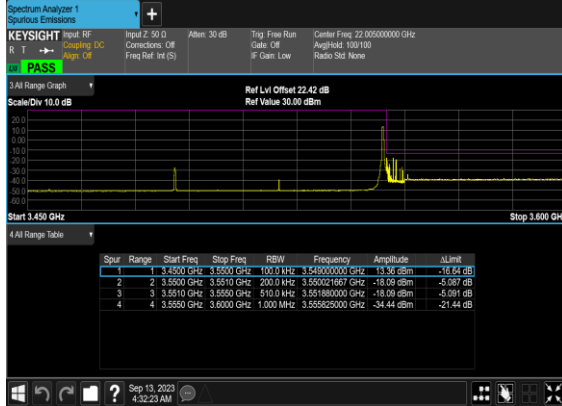
### N77(60M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



### N77(60M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Low\_CH



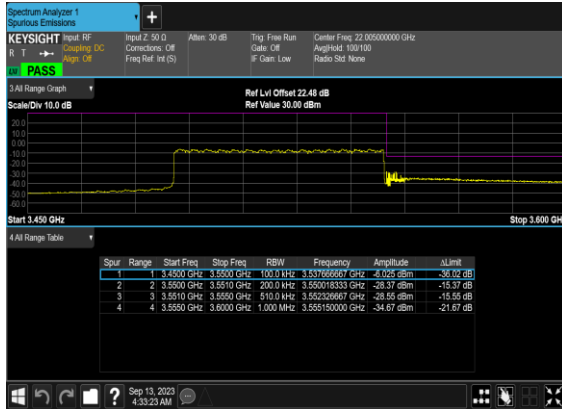
### N77(60M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



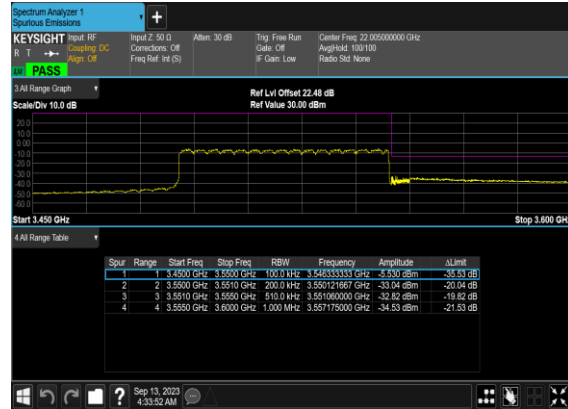
### N77(60M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Right\_High\_CH



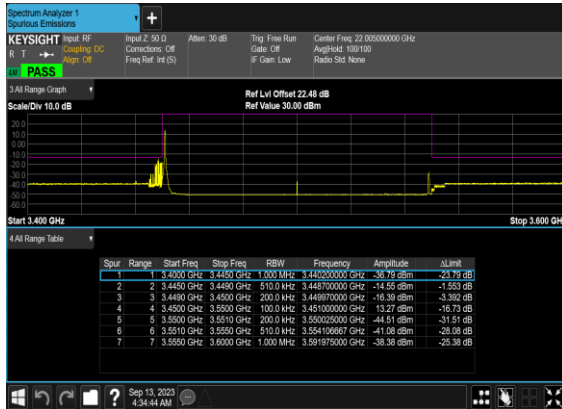
### N77(60M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



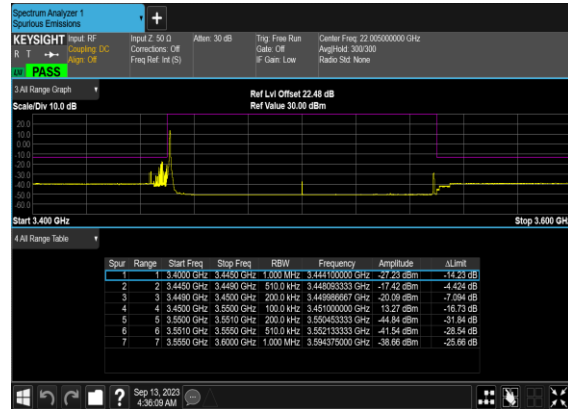
### N77(60M)\_CP-OFDM\_16 QAM\_Outer\_Full\_High\_CH



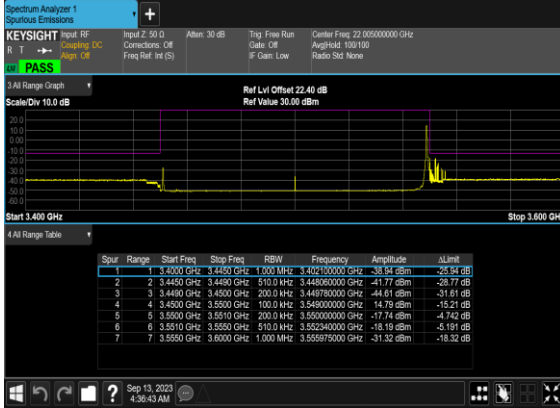
### N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



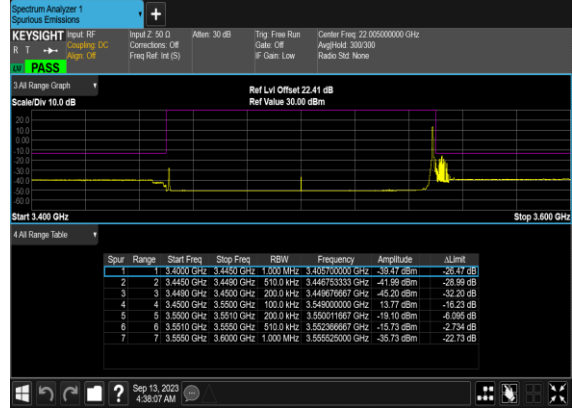
### N77(100M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Mid\_CH



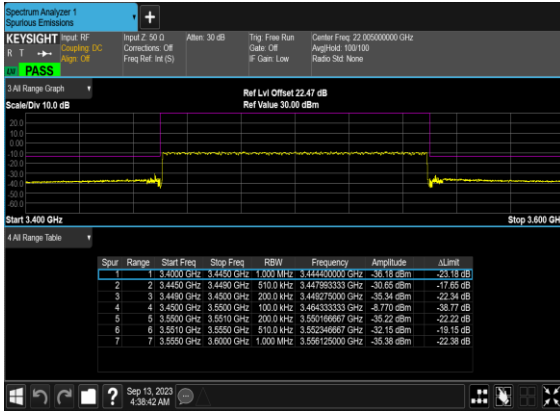
### N77(100M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_CH



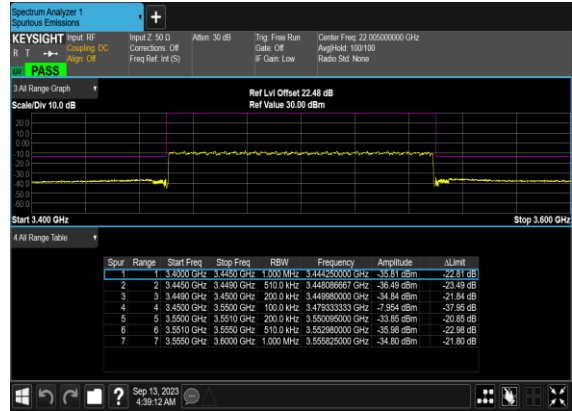
### N77(100M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Right\_Mid\_CH



### N77(100M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N77(100M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



# FR1 N78 MIMO\_ANT5

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0016	PASS	NV
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0021	PASS	LV
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0009	PASS	HV
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	-0.0012	PASS	-30°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0025	PASS	-20°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0013	PASS	-10°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0009	PASS	0°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	-0.0011	PASS	10°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0021	PASS	20°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0016	PASS	30°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0015	PASS	40°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0022	PASS	50°C

## Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	10.72	13	PASS
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	10.56	13	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	10.97	13	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	10.69	13	PASS

N78(90M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



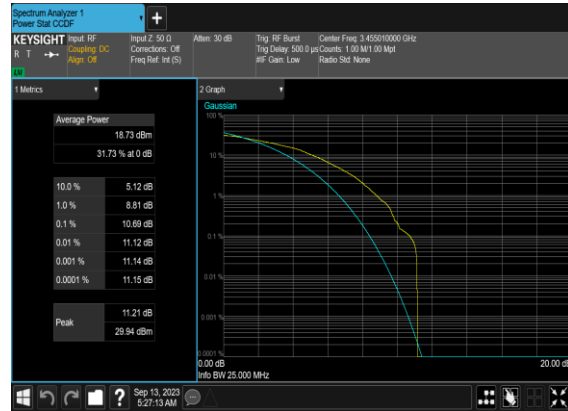
N78(90M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N78(90M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N78(90M)\_CP-OFDM\_16  
QAM\_Edge\_1RB\_Left\_Mid\_CH



## Occupied Bandwidth

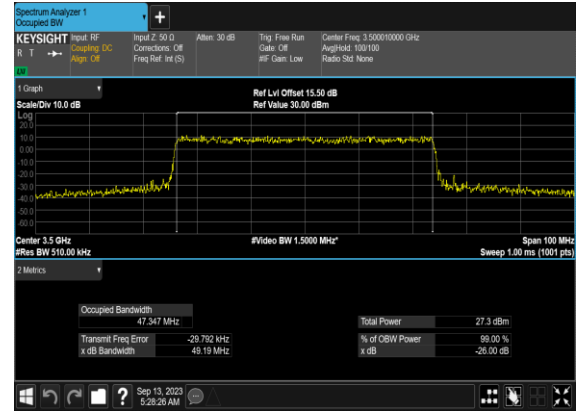
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.626	48.98
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.347	49.19
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.466	49.06
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.256	49.07
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.423	69.55
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.506	69.52
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.501	69.54
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.418	69.52
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.468	90.82
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.257	90.22
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.455	90.19
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.455	90.21



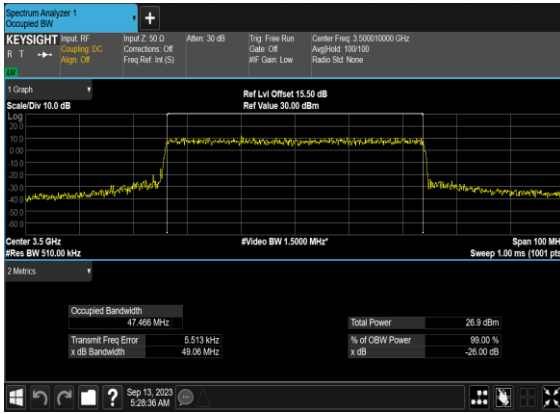
### N78(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



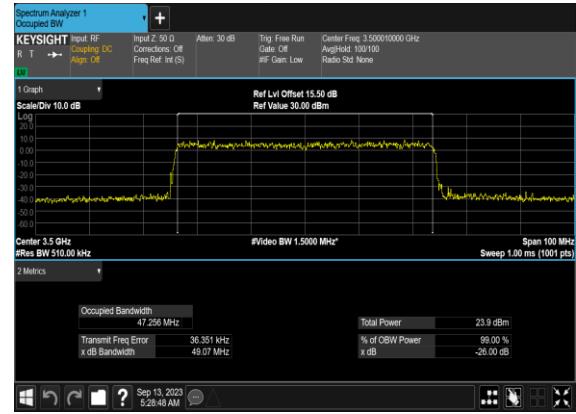
### N78(50M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



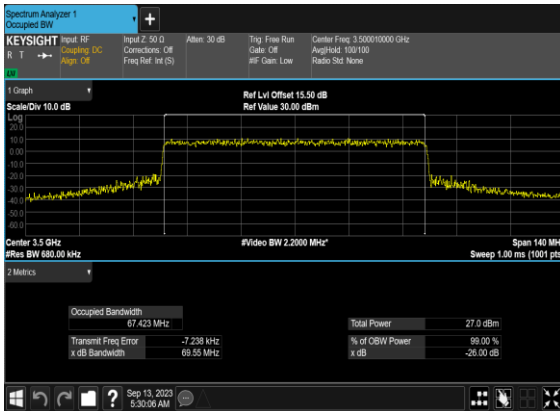
### N78(50M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



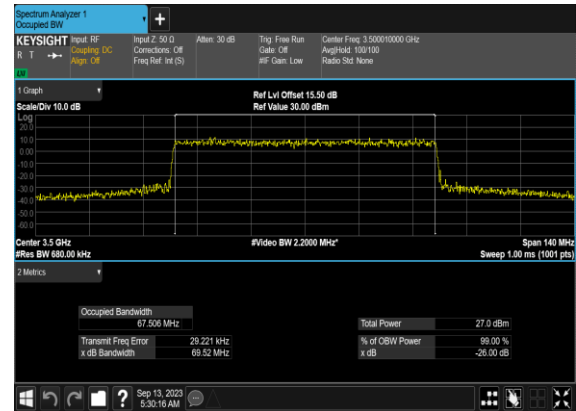
### N78(50M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



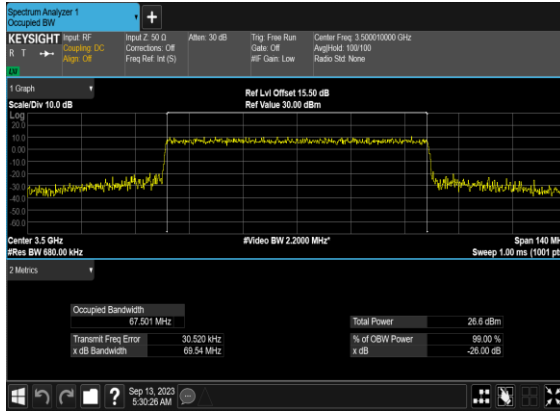
### N78(70M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



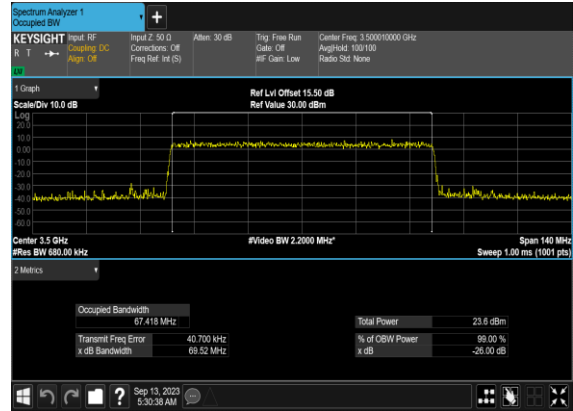
### N78(70M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



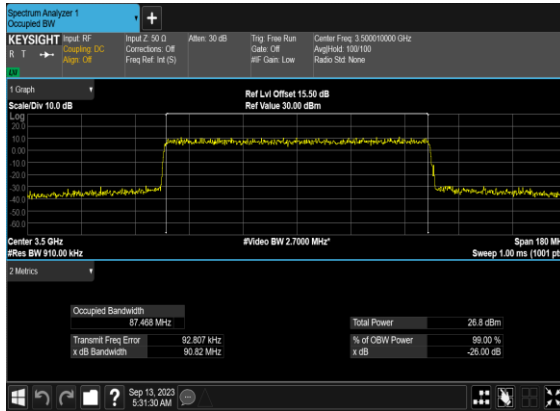
### N78(70M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N78(70M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



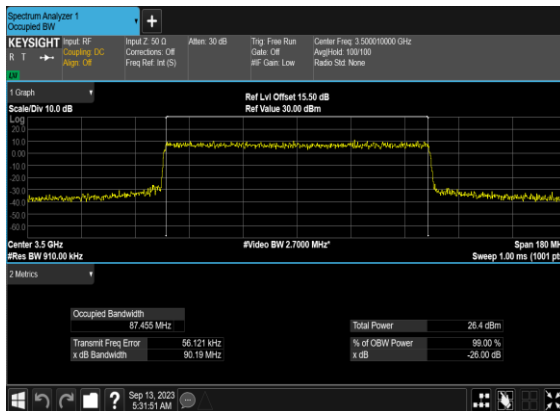
### N78(90M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



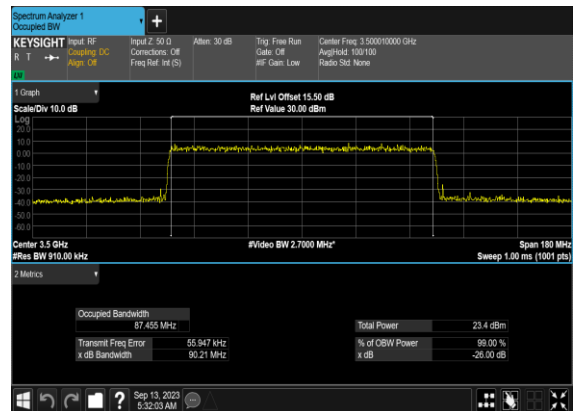
### N78(90M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



### N78(90M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N78(90M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



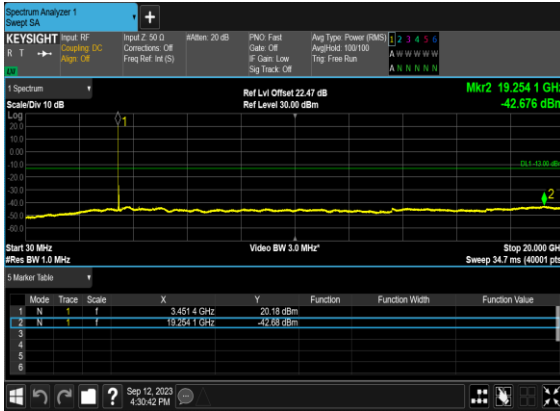
## Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	---
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	---
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	PASS

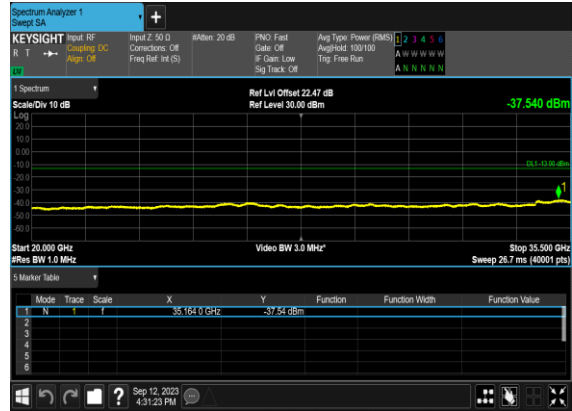
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	---
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	---
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>

<b>78</b>	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	---
<b>78</b>	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
<b>78</b>	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	<b>PASS</b>
<b>78</b>	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	---
<b>78</b>	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>
<b>78</b>	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	<b>PASS</b>

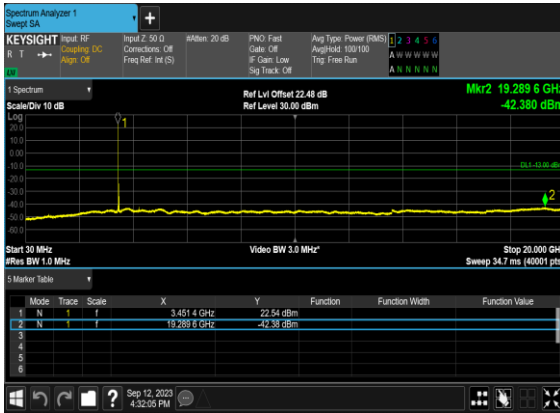
### N78(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



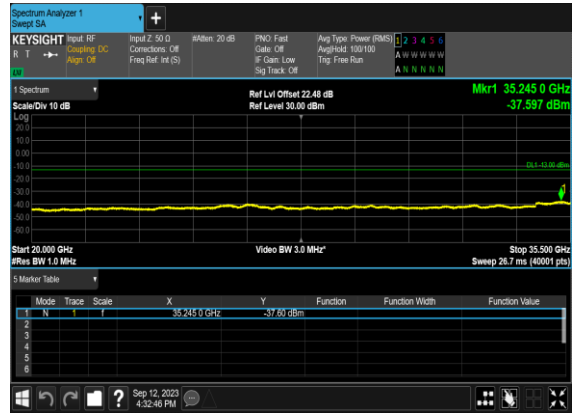
### N78(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



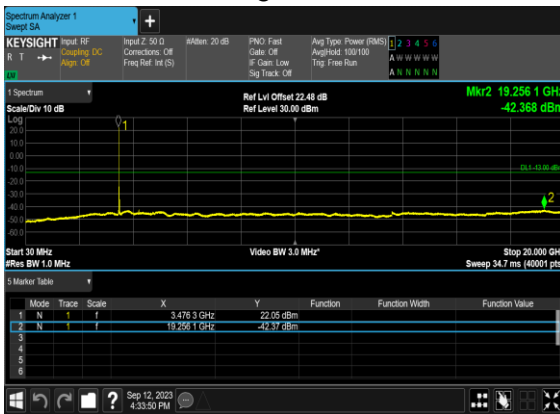
### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



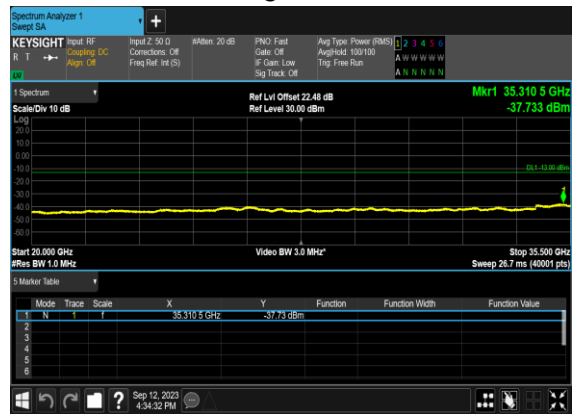
### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



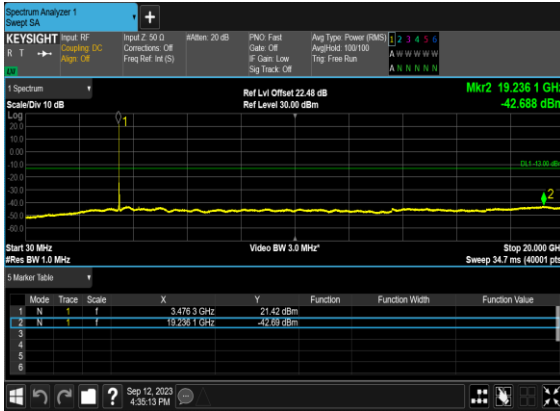
### N78(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



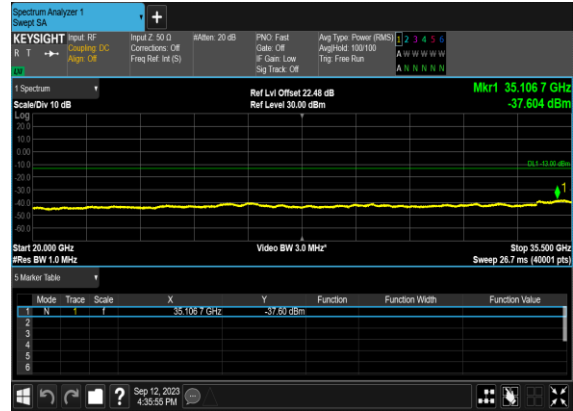
### N78(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



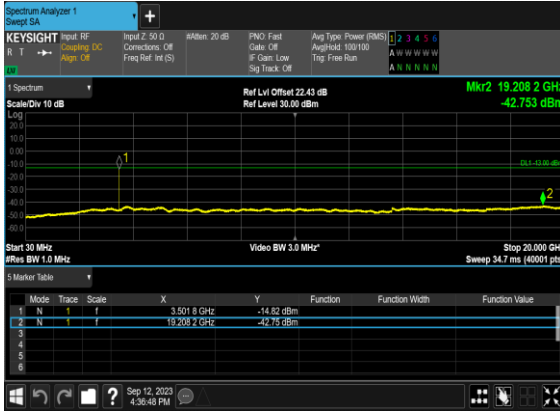
### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Mid\_CH



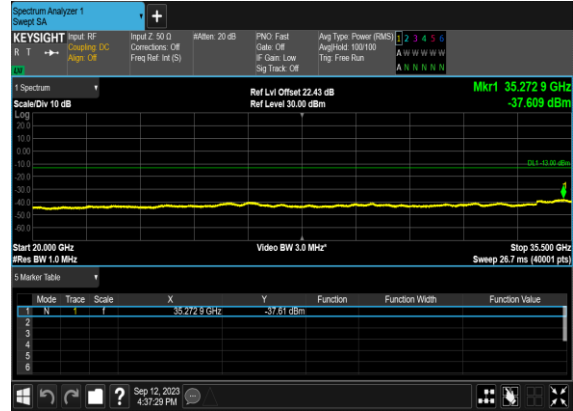
### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Mid\_CH



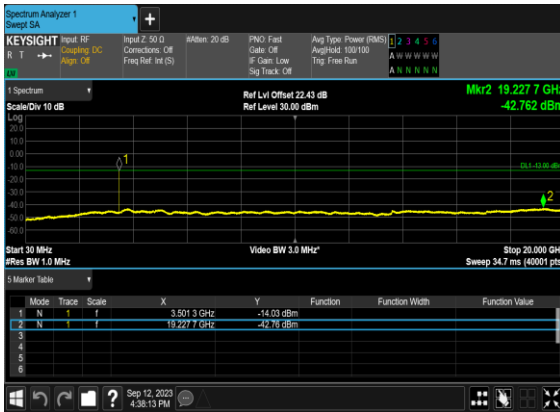
### N78(50M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



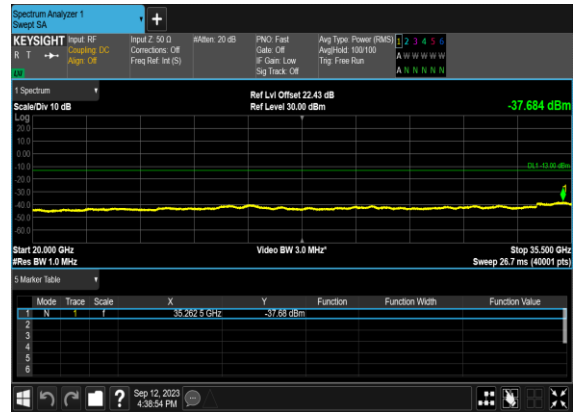
### N78(50M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



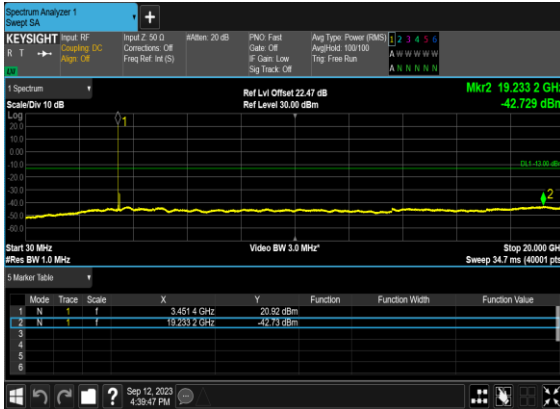
### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_High\_CH



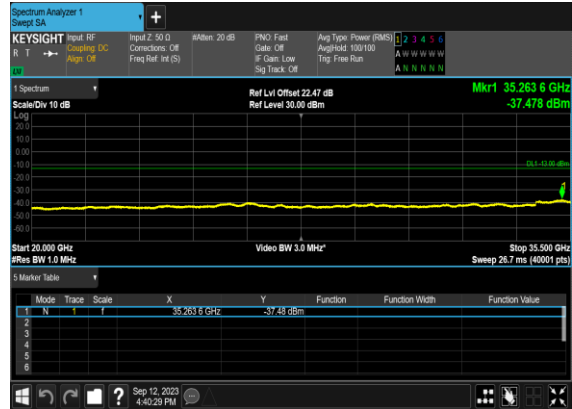
### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_High\_CH



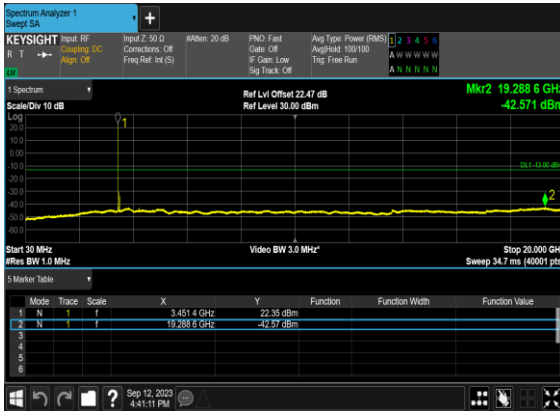
### N78(70M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



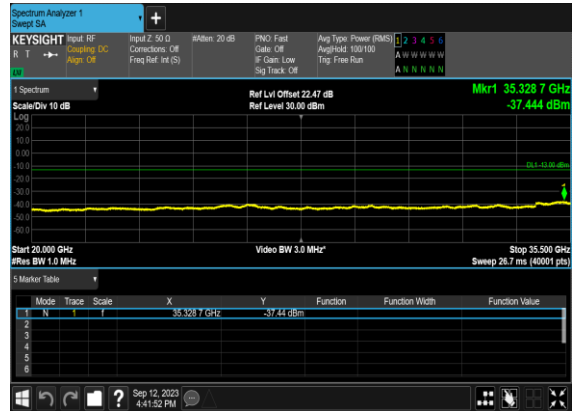
### N78(70M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



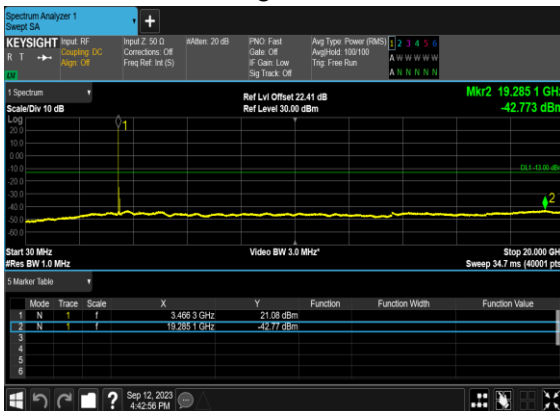
### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



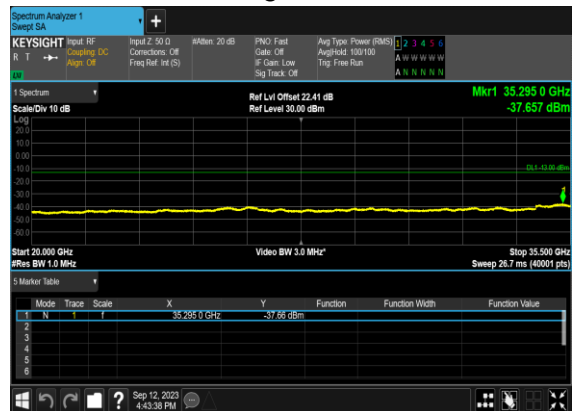
### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



### N78(70M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

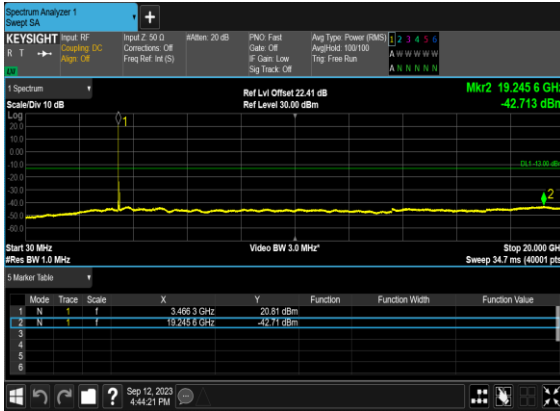


### N78(70M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

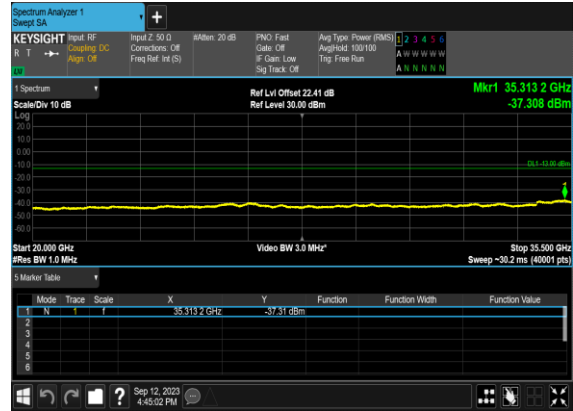




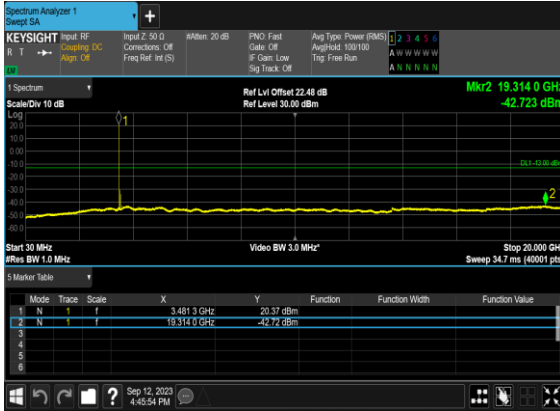
### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Mid\_CH



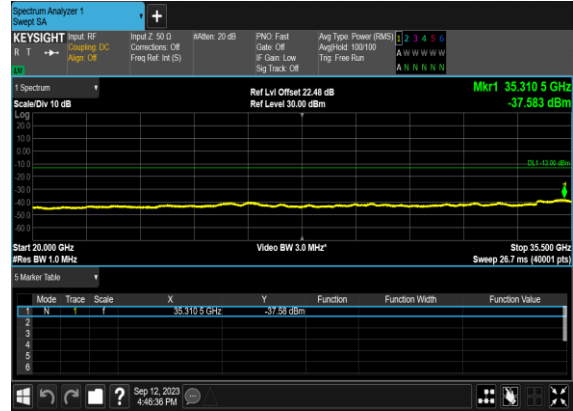
### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Mid\_CH



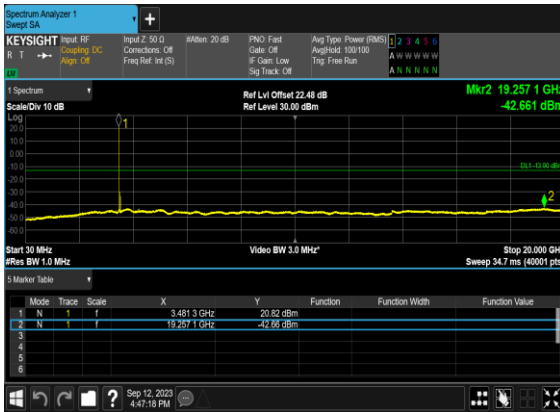
### N78(70M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



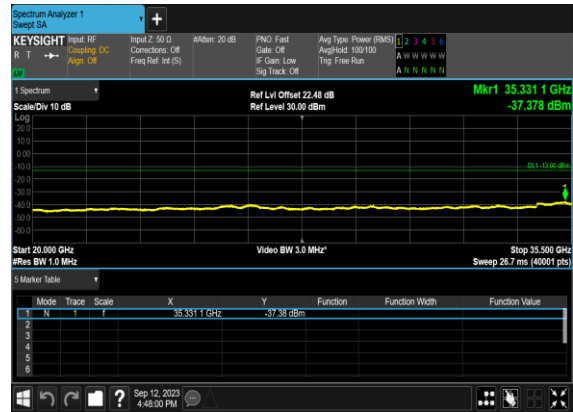
### N78(70M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



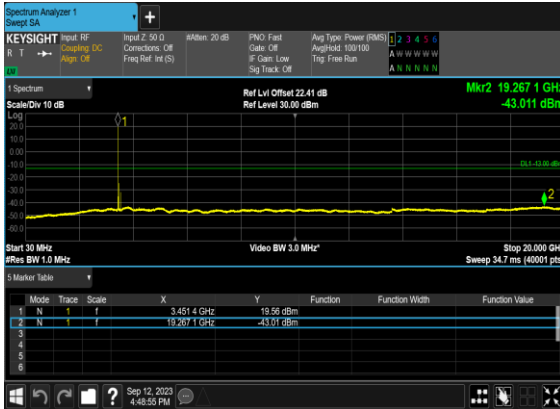
### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_High\_CH



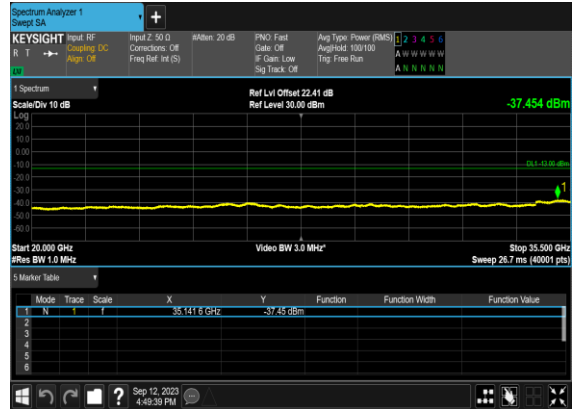
### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_High\_CH



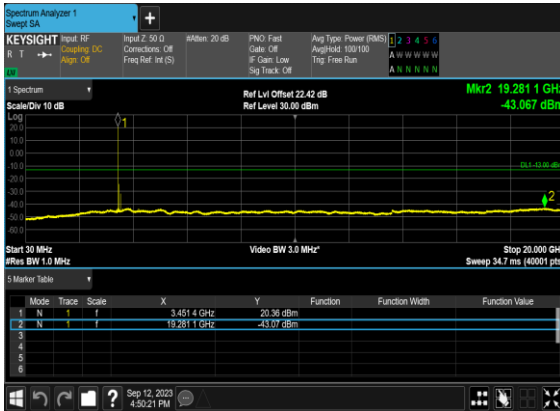
### N78(90M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



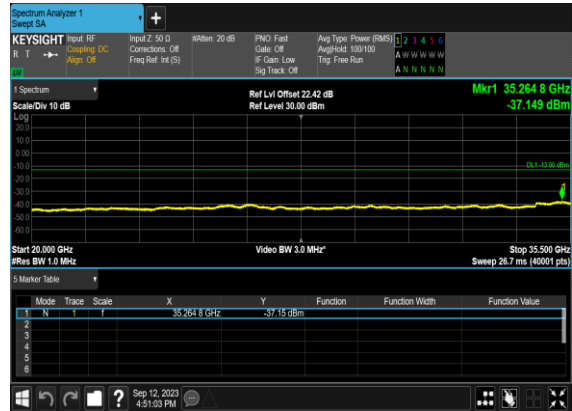
### N78(90M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



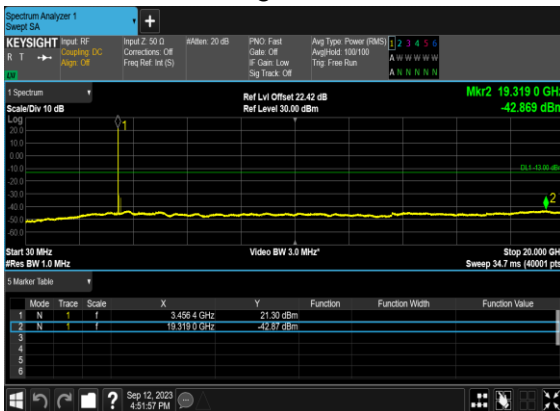
### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



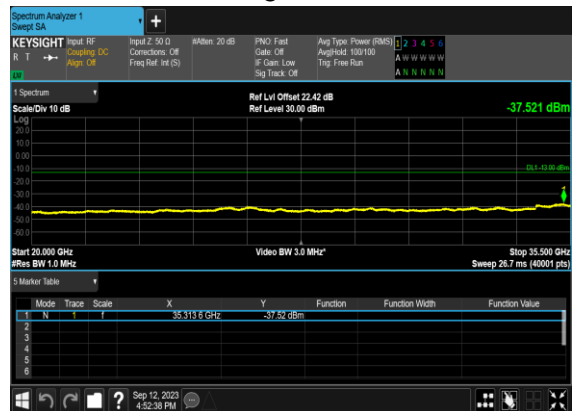
### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



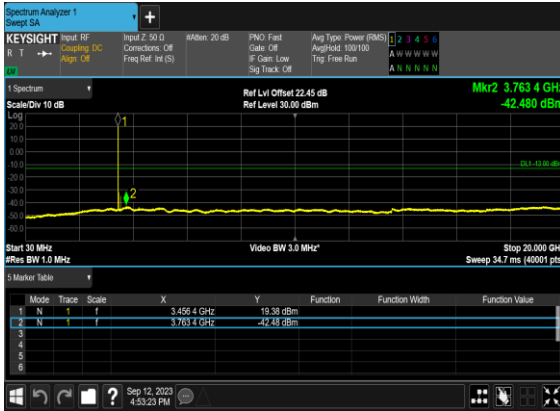
### N78(90M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



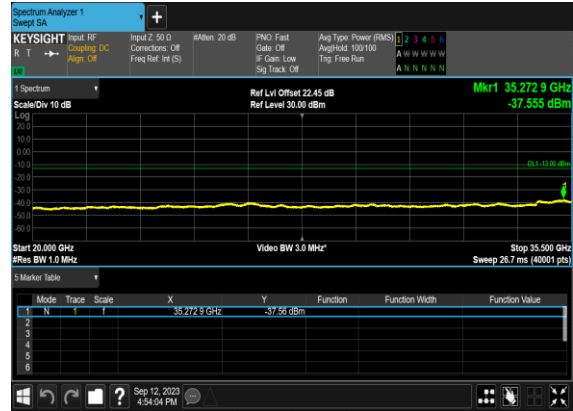
### N78(90M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



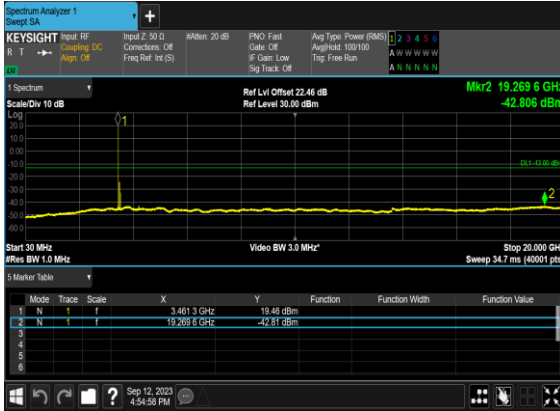
### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Mid\_CH



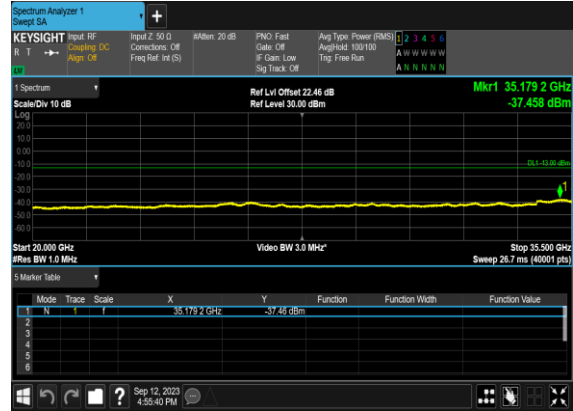
### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Mid\_CH



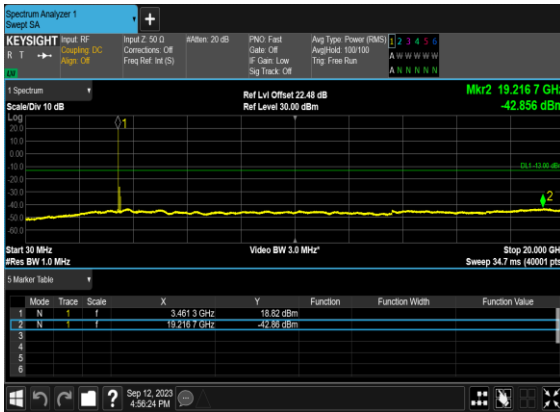
### N78(90M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



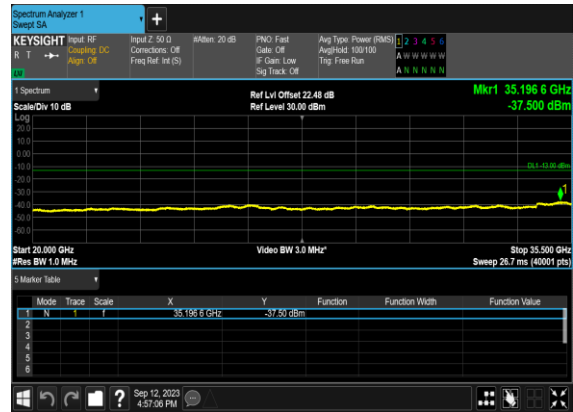
### N78(90M)\_CP-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_High\_CH



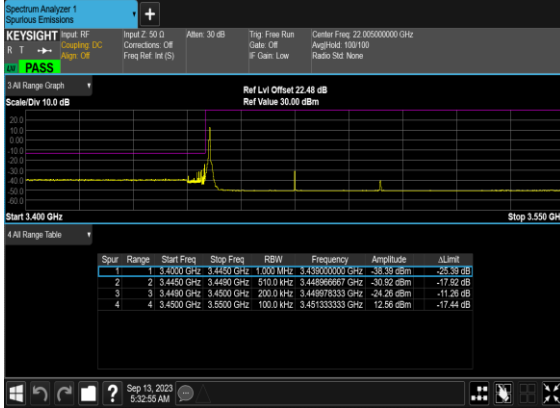
### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_High\_CH



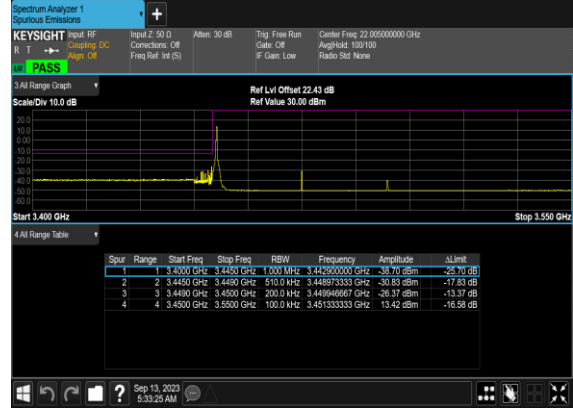
## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM QPSK	133@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	133@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@132	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@132	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	133@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	133@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	189@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM 16 QAM	189@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	1@188	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@188	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	189@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	189@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	245@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	245@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	1@244	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@244	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	245@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM 16 QAM	245@0	see graph	PASS

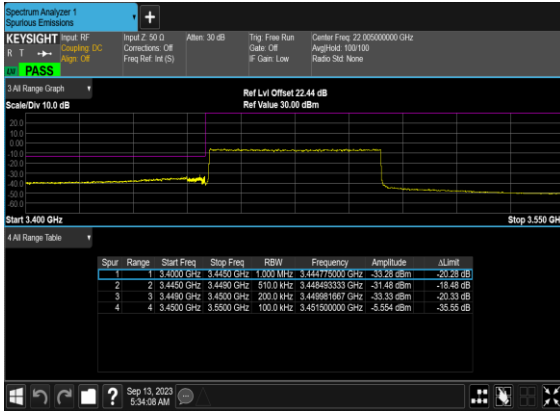
### N78(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



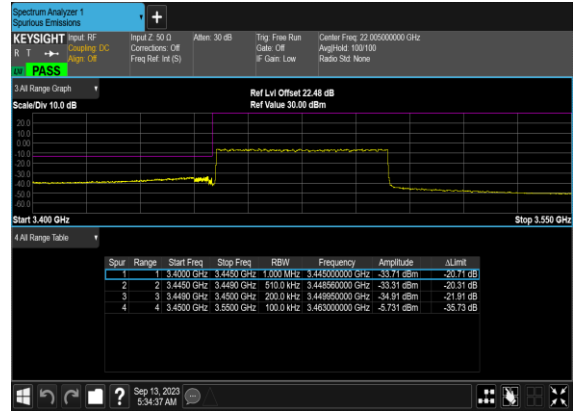
### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



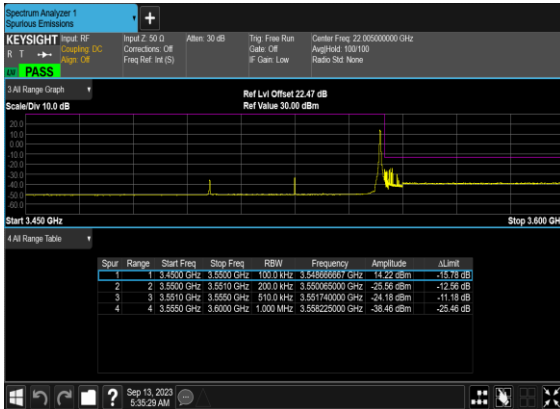
### N78(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



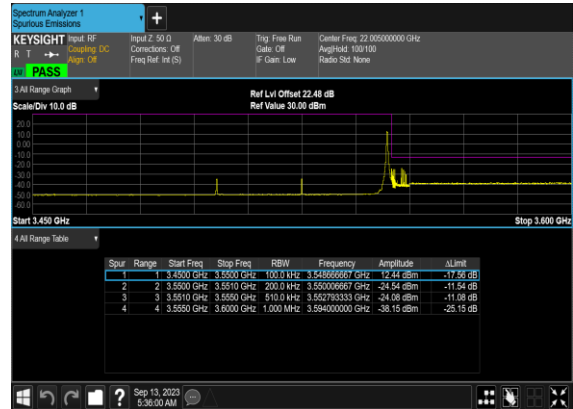
### N78(50M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Low\_CH



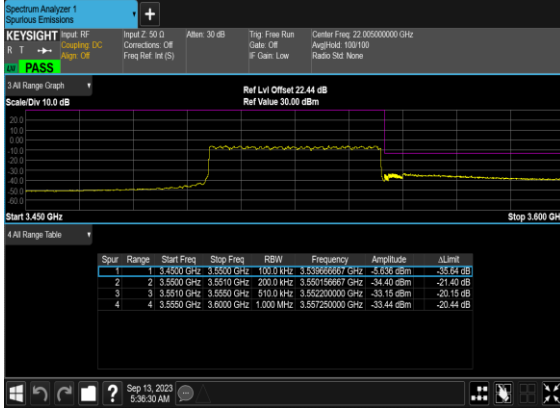
### N78(50M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



### N78(50M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Right\_High\_CH



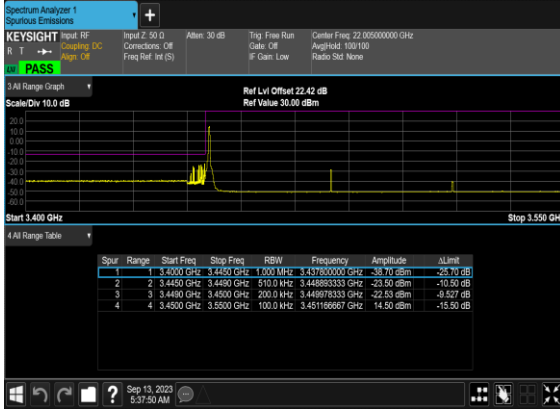
### N78(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



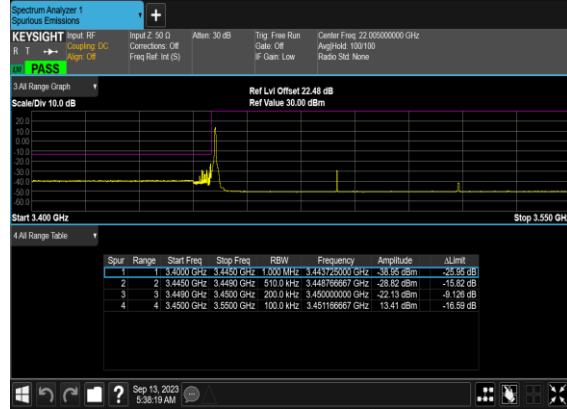
### N78(50M)\_CP-OFDM\_16 QAM\_Outer\_Full\_High\_CH



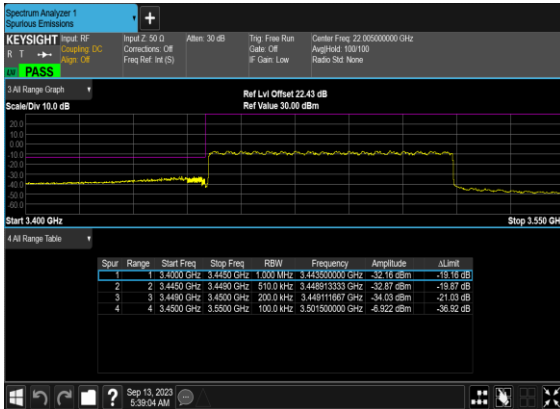
### N78(70M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



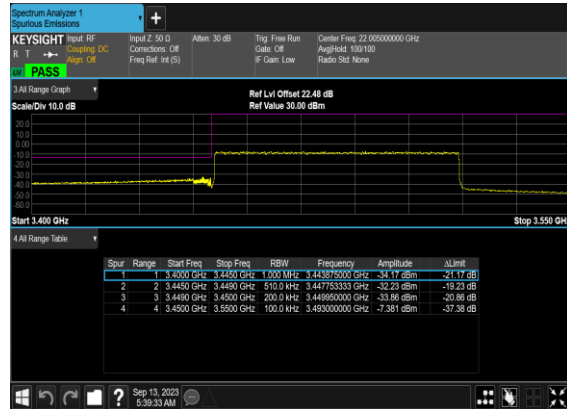
### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



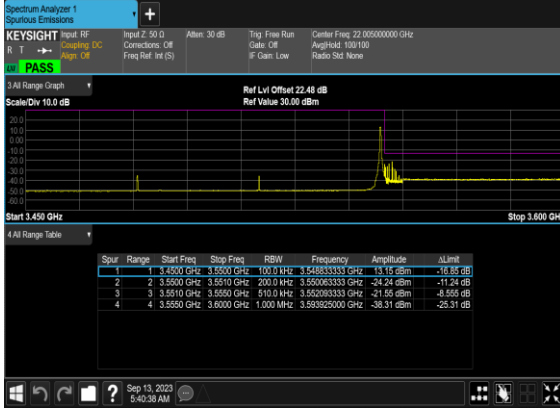
### N78(70M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



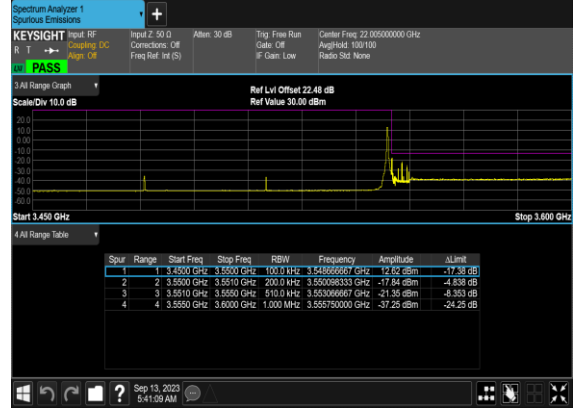
### N78(70M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Low\_CH



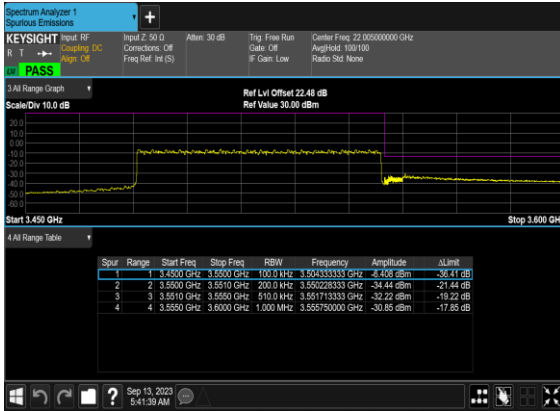
### N78(70M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



### N78(70M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Right\_High\_CH



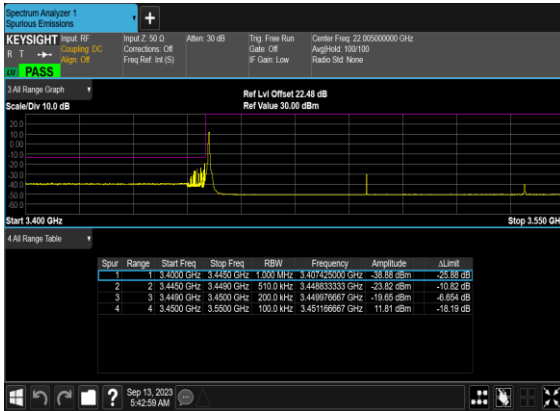
### N78(70M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



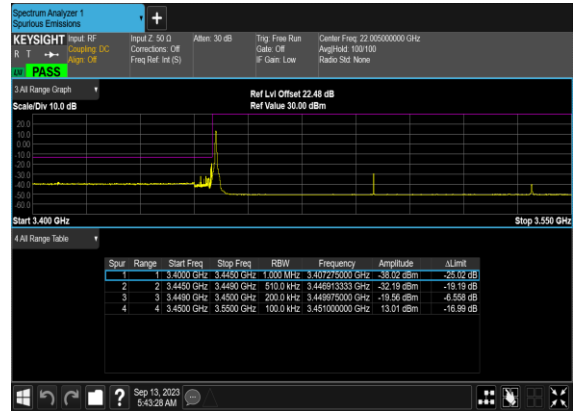
### N78(70M)\_CP-OFDM\_16 QAM\_Outer\_Full\_High\_CH



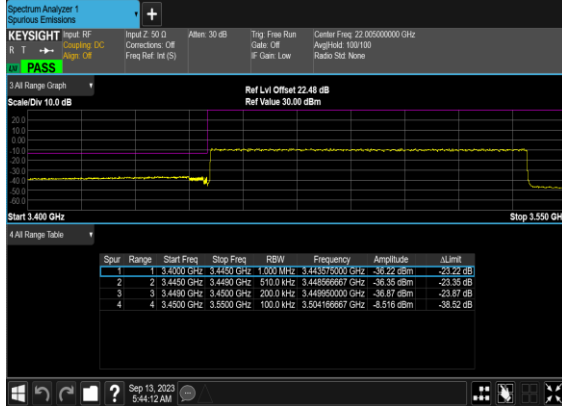
### N78(90M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



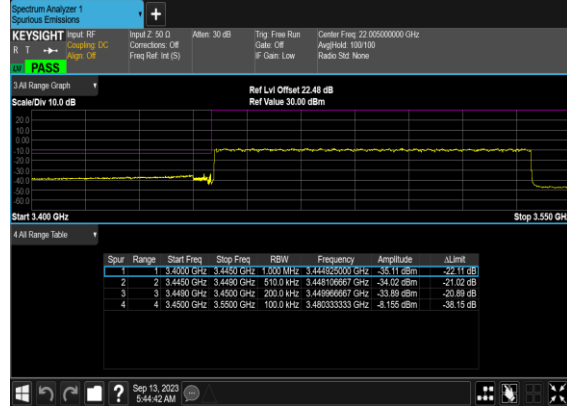
### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Left\_Low\_CH



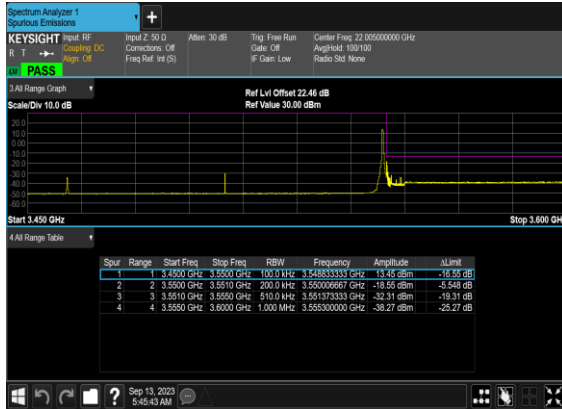
### N78(90M)\_CP- OFDM\_QPSK\_Outer\_Full\_Low\_CH



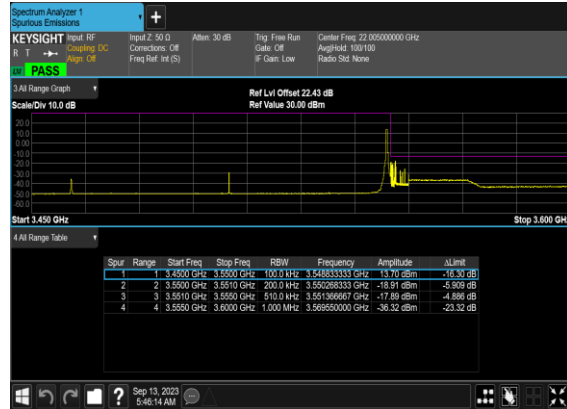
### N78(90M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Low\_CH



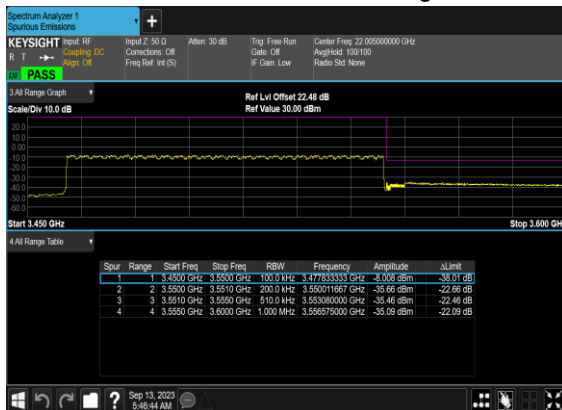
### N78(90M)\_CP- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



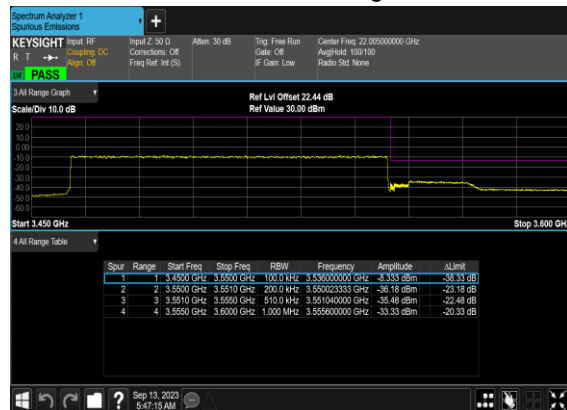
### N78(90M)\_CP-OFDM\_16 QAM\_Edge\_1RB\_Right\_High\_CH



### N78(90M)\_CP- OFDM\_QPSK\_Outer\_Full\_High\_CH



### N78(90M)\_CP-OFDM\_16 QAM\_Outer\_Full\_High\_CH





# FR1 N78 MIMO\_ANT8

## Transmitter Conducted Output Power And EIRP, (GT - LC)=-1.2dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT5 Power(dBm)	ANT8 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP(W)
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	20.38	20.64	23.52	22.32	0.1707
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	20.56	21.12	23.87	22.67	0.1849
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	20.28	20.36	23.33	22.13	0.1633
78	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	19.97	20.19	23.09	21.89	0.1546
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	20.14	20.46	23.31	22.11	0.1627
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	19.58	19.75	22.68	21.48	0.1405
78	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	18.38	18.65	21.53	20.33	0.1078
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	18.25	18.67	21.48	20.28	0.1065
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	17.93	18	20.98	19.78	0.0950
78	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	15.48	15.65	18.58	17.38	0.0547
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	15.75	16.17	18.98	17.78	0.0599
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	15.14	15.37	18.27	17.07	0.0509
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	20.56	21.06	23.83	22.63	0.1831
78	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	19.85	20.32	23.10	21.90	0.1549
78	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	18.36	18.64	21.51	20.31	0.1075
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	20.63	21.04	23.85	22.65	0.1841
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	19.26	20.28	22.81	21.61	0.1449
78	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	18.23	18.51	21.38	20.18	0.1043
78	30	20	636000	3540	CP-OFDM QPSK	1@1	20.56	21.14	23.85	22.65	0.1841
78	30	20	636000	3540	CP-OFDM 16 QAM	1@1	19.83	20.53	23.20	22.00	0.1586
78	30	20	636000	3540	CP-OFDM 64 QAM	1@1	18.25	18.47	21.37	20.17	0.1040
78	30	30	631000	3465	CP-OFDM QPSK	1@1	20.58	21.12	23.81	22.61	0.1824
78	30	30	631000	3465	CP-OFDM 16 QAM	1@1	19.84	20.39	23.13	21.93	0.1561
78	30	30	631000	3465	CP-OFDM 64 QAM	1@1	18.34	18.56	21.46	20.26	0.1062
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	20.62	20.69	23.67	22.47	0.1764
78	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	19.84	20.43	23.16	21.96	0.1569
78	30	30	633334	3500.01	CP-OFDM 64 QAM	1@1	18.15	18.34	21.26	20.06	0.1013
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	20.45	21.03	23.76	22.56	0.1803
78	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	19.86	20.22	23.05	21.85	0.1533
78	30	30	635666	3534.99	CP-OFDM 64 QAM	1@1	18.34	18.54	21.45	20.25	0.1060

78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	20.46	20.82	23.65	22.45	0.1760
78	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	19.87	20.23	23.06	21.86	0.1536
78	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	18.28	18.34	21.32	20.12	0.1028
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	20.66	20.77	23.73	22.53	0.1789
78	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	19.74	20.38	23.08	21.88	0.1542
78	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	18.14	18.28	21.22	20.02	0.1005
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	20.52	20.98	23.77	22.57	0.1806
78	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	19.98	20.34	23.17	21.97	0.1575
78	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	18.25	18.38	21.33	20.13	0.1029
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	20.21	20.54	23.39	22.19	0.1655
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	19.98	20.32	23.16	21.96	0.1572
78	30	50	631668	3475.02	CP-OFDM 64 QAM	1@1	18.28	18.25	21.28	20.08	0.1017
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	20.26	20.73	23.51	22.31	0.1703
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	19.98	20.28	23.14	21.94	0.1564
78	30	50	633334	3500.01	CP-OFDM 64 QAM	1@1	18.36	18.38	21.38	20.18	0.1042
78	30	50	635000	3525	CP-OFDM QPSK	1@1	20.16	20.54	23.36	22.16	0.1646
78	30	50	635000	3525	CP-OFDM 16 QAM	1@1	20.04	20.26	23.16	21.96	0.1571
78	30	50	635000	3525	CP-OFDM 64 QAM	1@1	18.32	18.52	21.43	20.23	0.1055
78	30	60	632000	3480	CP-OFDM QPSK	1@1	20.53	20.78	23.67	22.47	0.1765
78	30	60	632000	3480	CP-OFDM 16 QAM	1@1	20.15	20.26	23.22	22.02	0.1591
78	30	60	632000	3480	CP-OFDM 64 QAM	1@1	18.65	18.76	21.72	20.52	0.1126
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	20.55	20.51	23.54	22.34	0.1714
78	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	20.04	20.19	23.13	21.93	0.1558
78	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	18.58	18.54	21.57	20.37	0.1089
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	20.46	20.71	23.60	22.40	0.1737
78	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	20.12	20.35	23.25	22.05	0.1602
78	30	60	634666	3519.99	CP-OFDM 64 QAM	1@1	18.68	18.84	21.77	20.57	0.1141
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	20.46	20.66	23.57	22.37	0.1726
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	19.46	20.32	22.92	21.72	0.1486
78	30	70	632334	3485.01	CP-OFDM 64 QAM	1@1	18.32	18.53	21.44	20.24	0.1056
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	20.42	20.6	23.52	22.32	0.1707
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	19.95	20.15	23.06	21.86	0.1535
78	30	70	633334	3500.01	CP-OFDM 64 QAM	1@1	18.26	18.32	21.30	20.10	0.1023
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	20.46	20.76	23.62	22.42	0.1747
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	19.86	20.32	23.11	21.91	0.1551
78	30	70	634332	3514.98	CP-OFDM 64 QAM	1@1	18.36	18.32	21.35	20.15	0.1035

78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	20.5	20.61	23.57	22.37	0.1724
78	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	19.85	20.12	23.00	21.80	0.1513
78	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	18.56	18.74	21.66	20.46	0.1112
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	20.39	20.64	23.53	22.33	0.1709
78	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	19.85	20.32	23.10	21.90	0.1549
78	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	18.42	18.38	21.41	20.21	0.1050
78	30	80	634000	3510	CP-OFDM QPSK	1@1	20.42	20.73	23.59	22.39	0.1733
78	30	80	634000	3510	CP-OFDM 16 QAM	1@1	19.98	20.16	23.08	21.88	0.1542
78	30	80	634000	3510	CP-OFDM 64 QAM	1@1	18.64	18.58	21.62	20.42	0.1102
78	30	90	633000	3495	CP-OFDM QPSK	1@1	20.46	20.68	23.58	22.38	0.1730
78	30	90	633000	3495	CP-OFDM 16 QAM	1@1	20.12	20.59	23.37	22.17	0.1649
78	30	90	633000	3495	CP-OFDM 64 QAM	1@1	18.26	18.54	21.41	20.21	0.1050
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	20.42	20.64	23.54	22.34	0.1715
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	20.22	20.59	23.42	22.22	0.1667
78	30	90	633334	3500.01	CP-OFDM 64 QAM	1@1	18.69	18.73	21.72	20.52	0.1127
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	20.42	20.67	23.56	22.36	0.1721
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	20.12	20.33	23.24	22.04	0.1598
78	30	90	633666	3504.99	CP-OFDM 64 QAM	1@1	18.17	18.51	21.35	20.15	0.1036

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0012	PASS	NV
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0025	PASS	LV
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	-0.0014	PASS	HV
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0016	PASS	-30°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0022	PASS	-20°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	-0.0012	PASS	-10°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0013	PASS	0°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0015	PASS	10°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0024	PASS	20°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0008	PASS	30°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0011	PASS	40°C
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	0.0027	PASS	50°C

## Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	10.73	13	PASS
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	10.06	13	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	10.98	13	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	10.33	13	PASS

N78(90M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



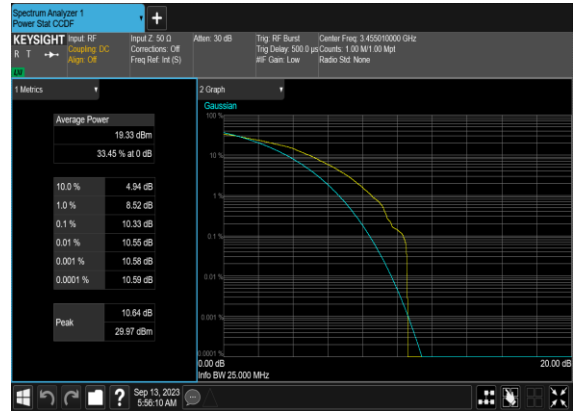
N78(90M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N78(90M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N78(90M)\_CP-OFDM\_16  
QAM\_Edge\_1RB\_Left\_Mid\_CH



## Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.597	49.62
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.447	49.92
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.443	49.31
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.562	49.28
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.504	69.54
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.72	69.65
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.371	69.54
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.499	69.68
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.29	90.34
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.455	90.22
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.517	90.18
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.607	90.26