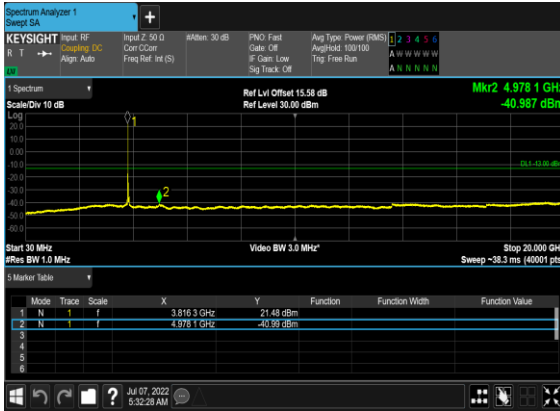
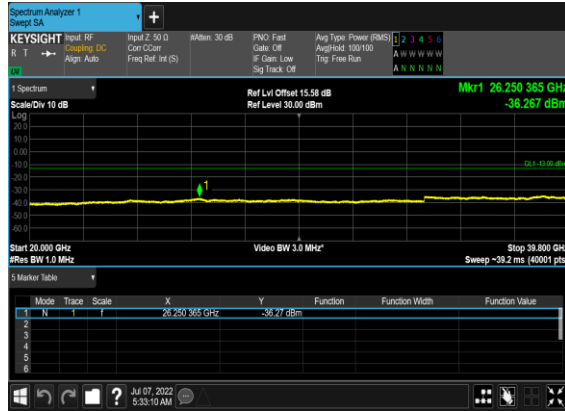


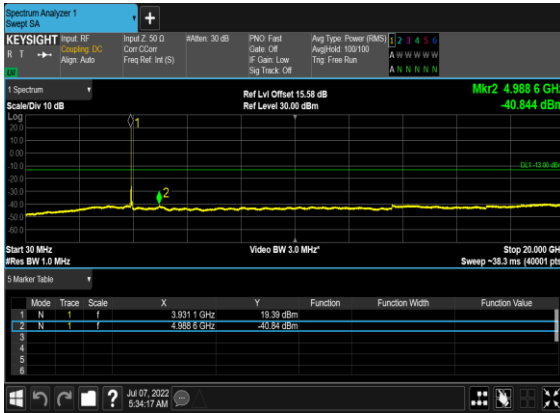
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



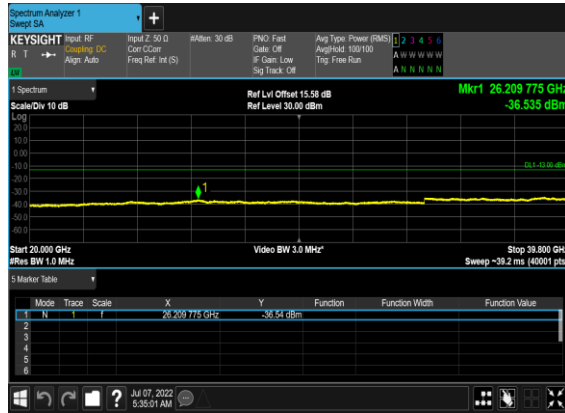
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



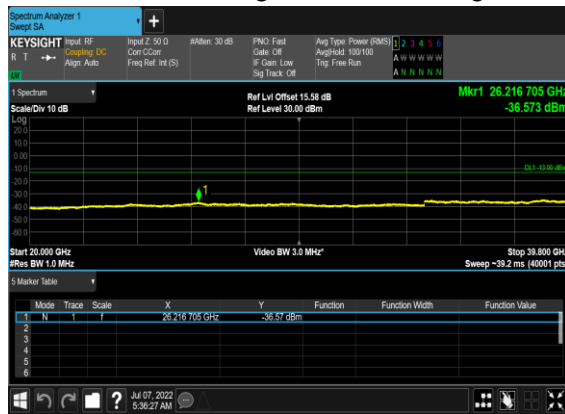
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



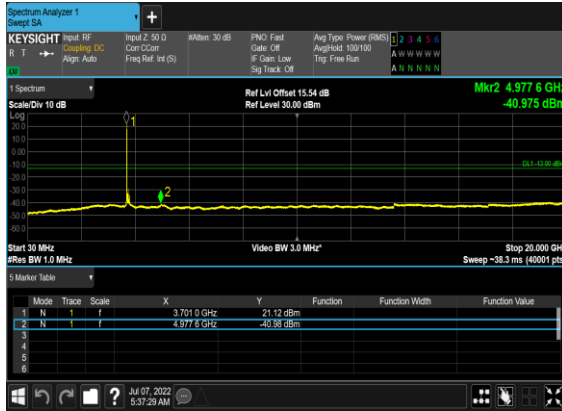
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



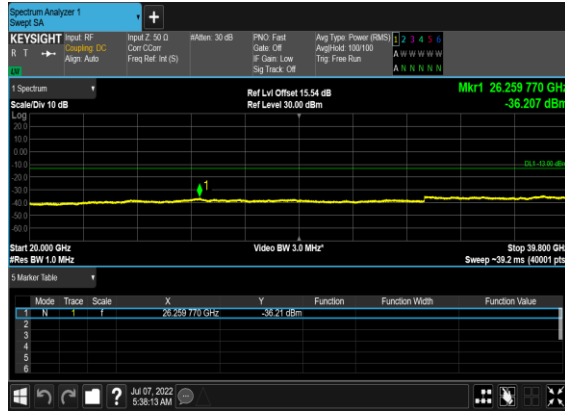
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



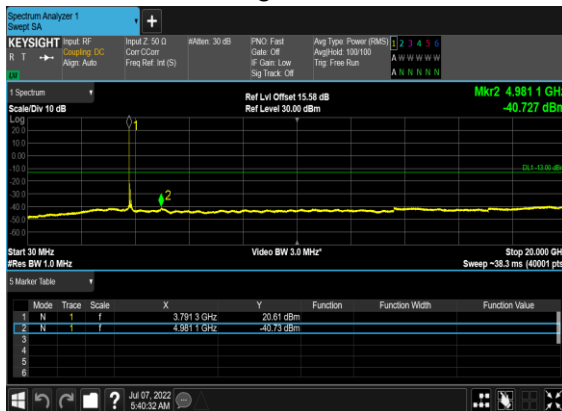
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



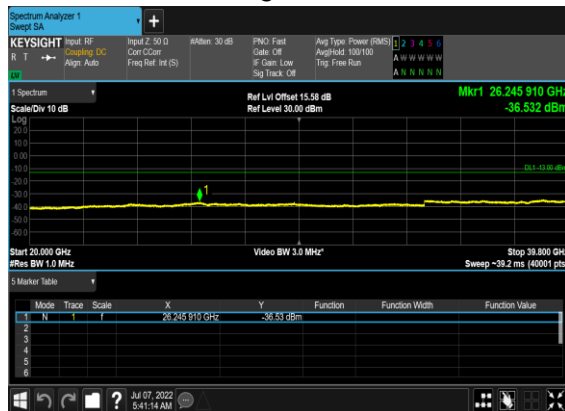
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



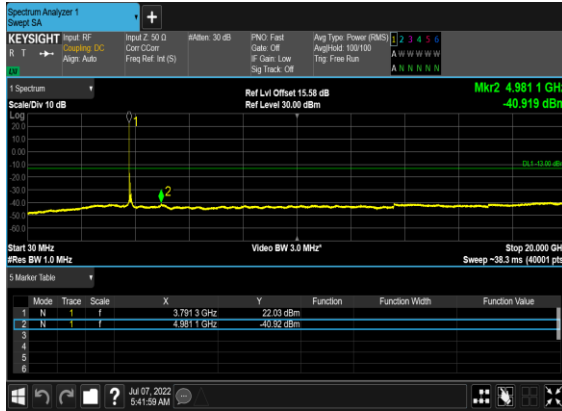
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



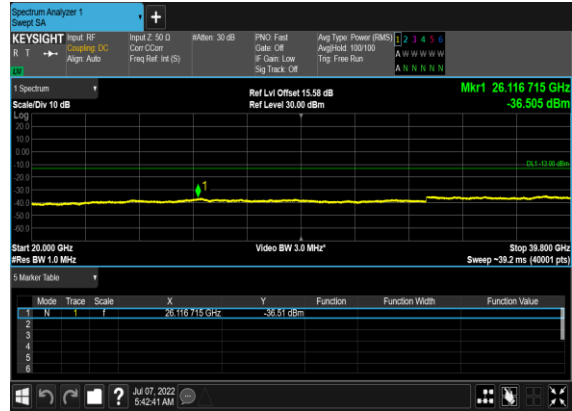
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



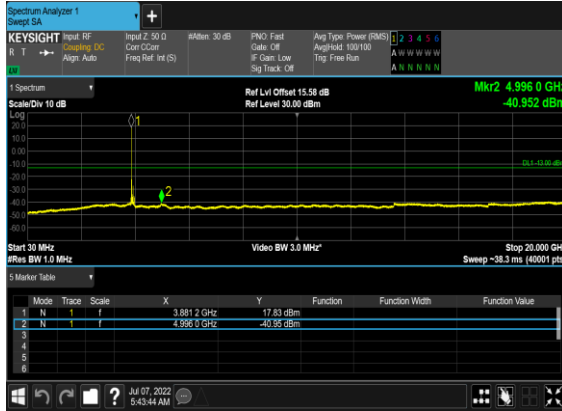
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



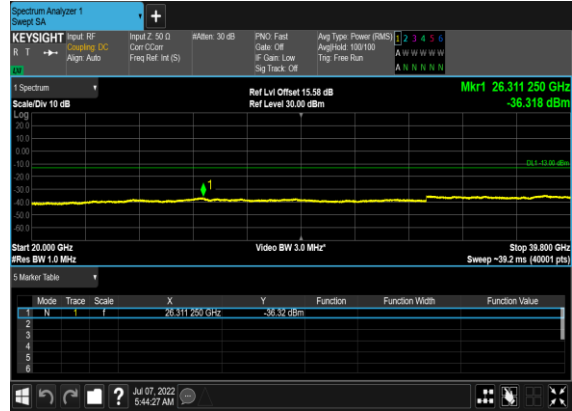
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



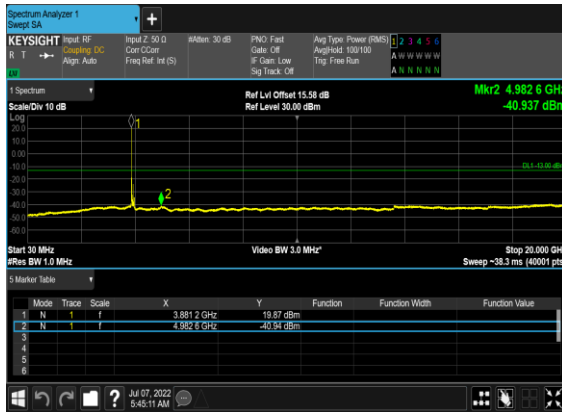
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



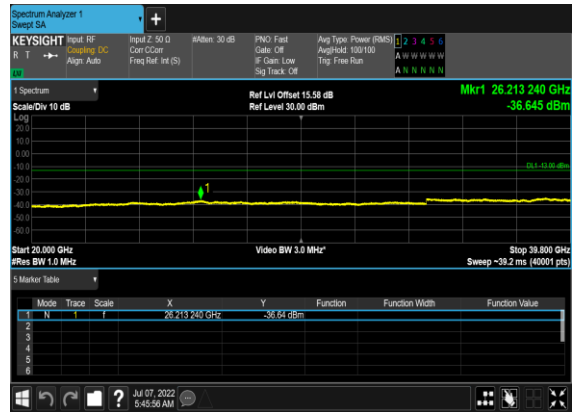
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



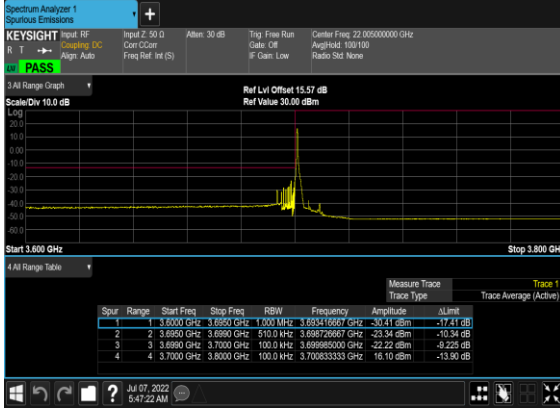
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



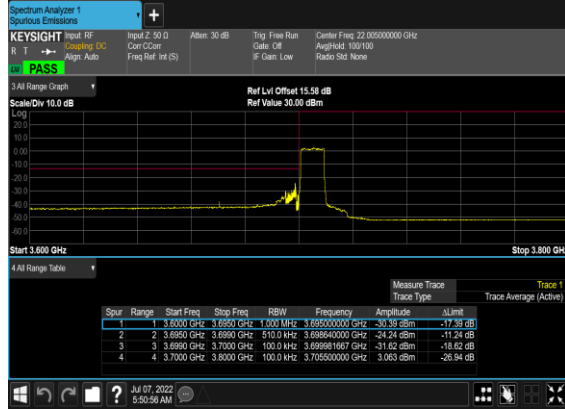
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



### N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



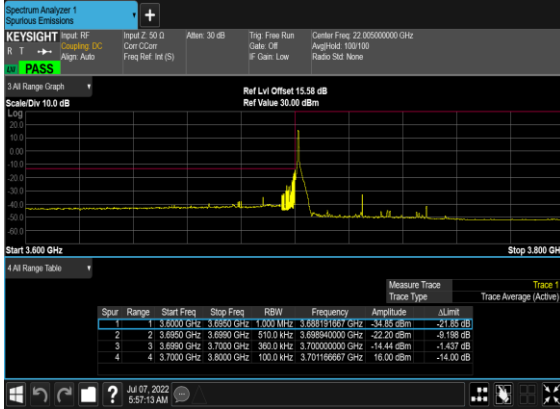
### N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



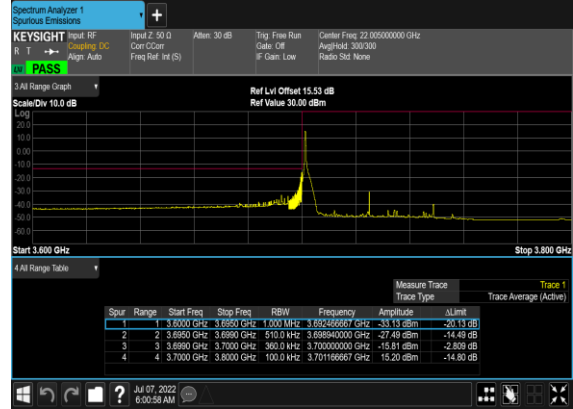
### N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



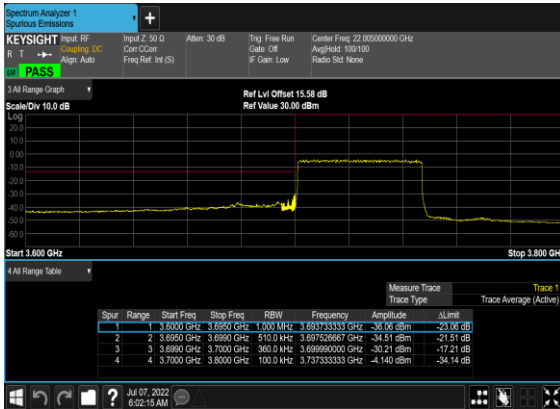
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



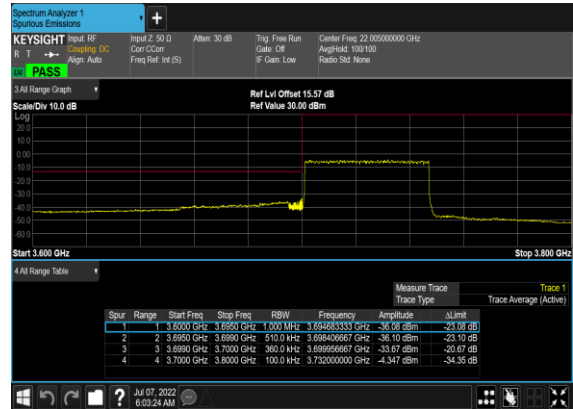
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



### N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



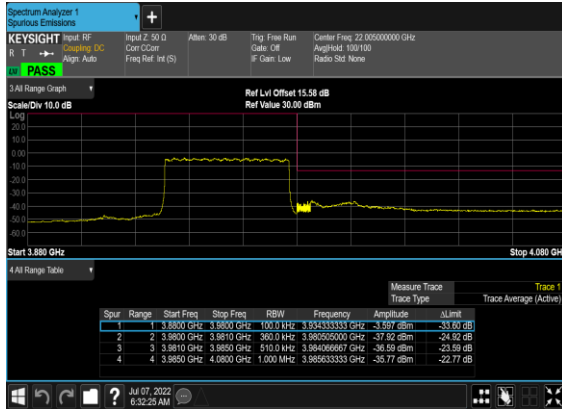
N77(50M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



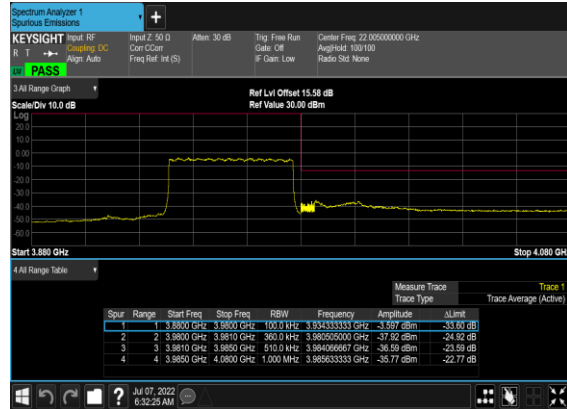
N77(50M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



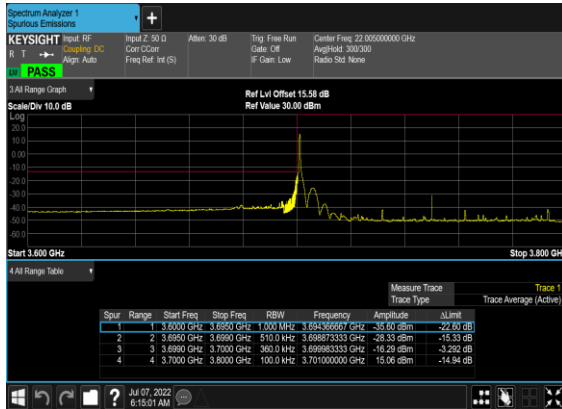
N77(50M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



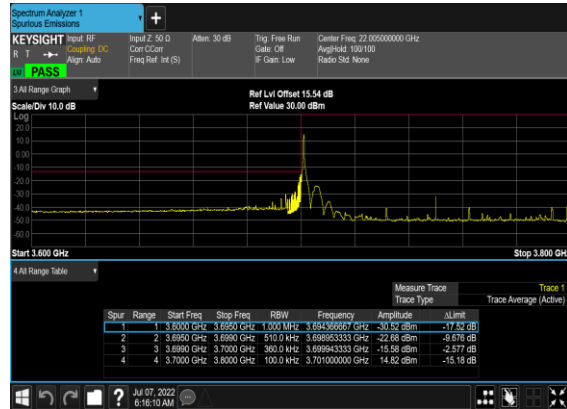
N77(50M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



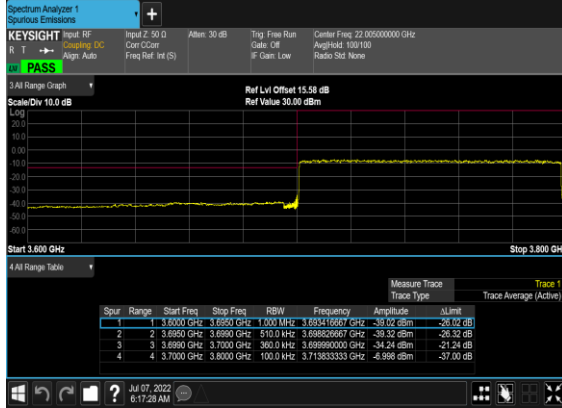
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



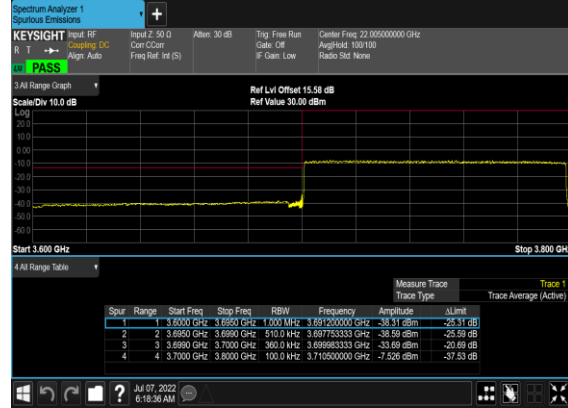
N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



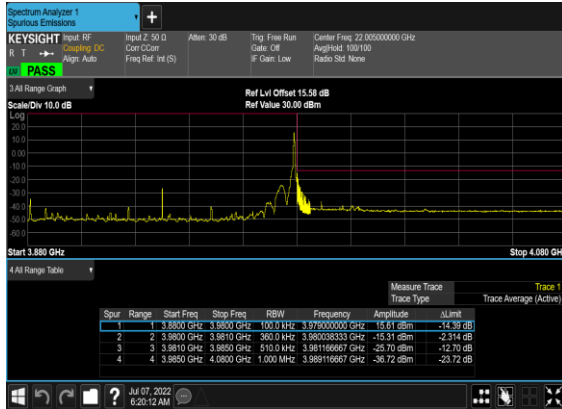
N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



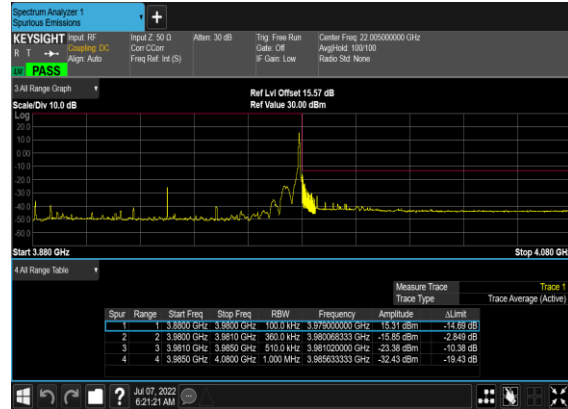
N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



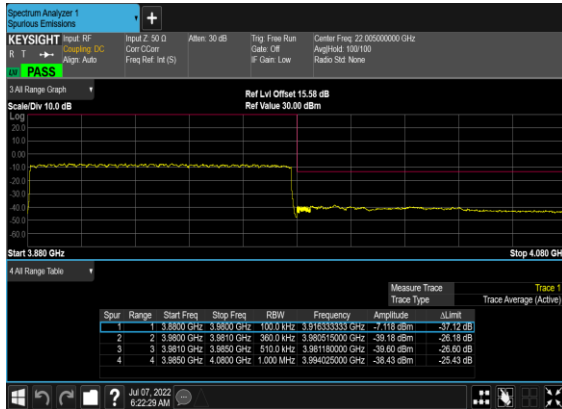
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



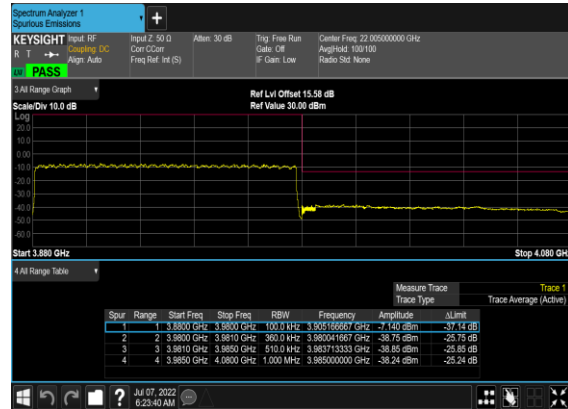
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH





# FR1 N78

## Transmitter Conducted Output Power And EIRP (Ant. 11), (GT-LC)=-0.9dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	10	647000	3705	DFT-s-OFDM QPSK	1@1	23.25	22.35	0.1718
78	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	22.43	21.53	0.1422
78	15	10	650000	3750	DFT-s-OFDM QPSK	1@1	23.27	22.37	0.1726
78	15	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.39	21.49	0.1409
78	15	10	653000	3795	DFT-s-OFDM QPSK	1@1	23.36	22.46	0.1762
78	15	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	22.46	21.56	0.1432
78	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@1	23.3	22.4	0.1738
78	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@1	22.55	21.65	0.1462
78	15	15	650000	3750	DFT-s-OFDM QPSK	1@1	23.34	22.44	0.1754
78	15	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.49	21.59	0.1442
78	15	15	652833	3792.495	DFT-s-OFDM QPSK	1@1	23.36	22.46	0.1762
78	15	15	652833	3792.495	DFT-s-OFDM 16 QAM	1@1	22.58	21.68	0.1472
78	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	23.27	22.37	0.1726
78	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	22.44	21.54	0.1426
78	15	20	650000	3750	DFT-s-OFDM QPSK	1@1	23.29	22.39	0.1734
78	15	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.52	21.62	0.1452
78	15	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	23.35	22.45	0.1758
78	15	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	22.54	21.64	0.1459
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@1	23.15	22.25	0.1679
78	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@1	22.39	21.49	0.1409
78	15	30	650000	3750	DFT-s-OFDM QPSK	1@1	23.07	22.17	0.1648
78	15	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.32	21.42	0.1387
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@1	23.08	22.18	0.1652
78	15	30	652333	3784.995	DFT-s-OFDM 16 QAM	1@1	16.98	16.08	0.0406
78	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	22.92	22.02	0.1592

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	22.04	21.14	0.1300
78	15	40	650000	3750	DFT-s-OFDM QPSK	1@1	22.83	21.93	0.1560
78	15	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	22	21.1	0.1288
78	15	40	652000	3780	DFT-s-OFDM QPSK	1@1	22.87	21.97	0.1574
78	15	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	22.05	21.15	0.1303
78	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	135@67	23.42	22.52	0.1786
78	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	23.09	22.19	0.1656
78	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@268	23.08	22.18	0.1652
78	15	50	648334	3725.01	DFT-s-OFDM QPSK	135@67	23.48	22.58	0.1811
78	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	23.19	22.29	0.1694
78	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@268	23.19	22.29	0.1694
78	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	135@67	22.42	21.52	0.1419
78	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	22.39	21.49	0.1409
78	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@268	22.37	21.47	0.1403
78	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	135@67	21.06	20.16	0.1038
78	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	21.07	20.17	0.1040
78	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@268	21.04	20.14	0.1033
78	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	135@67	18.99	18.09	0.0644
78	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	18.88	17.98	0.0628
78	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@268	18.79	17.89	0.0615
78	15	50	648334	3725.01	CP-OFDM QPSK	135@67	21.94	21.04	0.1271
78	15	50	648334	3725.01	CP-OFDM QPSK	1@1	21.62	20.72	0.1180
78	15	50	648334	3725.01	CP-OFDM QPSK	1@268	21.66	20.76	0.1191
78	15	50	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	23.32	22.42	0.1746

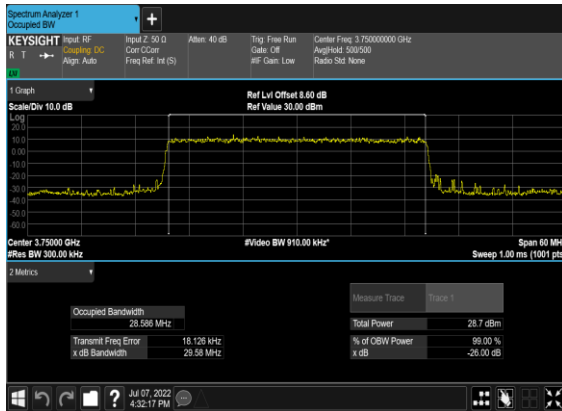
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	23.09	22.19	0.1656
78	15	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@268	23.17	22.27	0.1687
78	15	50	650000	3750	DFT-s-OFDM QPSK	135@67	23.37	22.47	0.1766
78	15	50	650000	3750	DFT-s-OFDM QPSK	1@1	23.14	22.24	0.1675
78	15	50	650000	3750	DFT-s-OFDM QPSK	1@268	23.24	22.34	0.1714
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	135@67	22.37	21.47	0.1403
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.41	21.51	0.1416
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	1@268	22.44	21.54	0.1426
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	135@67	21.04	20.14	0.1033
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	1@1	21.03	20.13	0.1030
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	1@268	21.09	20.19	0.1045
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	135@67	18.99	18.09	0.0644
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.79	17.89	0.0615
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	1@268	18.85	17.95	0.0624
78	15	50	650000	3750	CP-OFDM QPSK	135@67	21.87	20.97	0.1250
78	15	50	650000	3750	CP-OFDM QPSK	1@1	21.71	20.81	0.1205
78	15	50	650000	3750	CP-OFDM QPSK	1@268	21.82	20.92	0.1236
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	135@67	23.4	22.5	0.1778
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	23.07	22.17	0.1648
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@268	23.19	22.29	0.1694
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	135@67	23.39	22.49	0.1774
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	23.1	22.2	0.1660
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	1@268	23.32	22.42	0.1746
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	135@67	22.39	21.49	0.1409

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	22.38	21.48	0.1406
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@268	22.59	21.69	0.1476
78	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	135@67	21.05	20.15	0.1035
78	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@1	20.93	20.03	0.1007
78	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@268	21.09	20.19	0.1045
78	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	135@67	19.03	18.13	0.0650
78	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@1	18.7	17.8	0.0603
78	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@268	18.9	18	0.0631
78	15	50	651666	3774.99	CP-OFDM QPSK	135@67	21.94	21.04	0.1271
78	15	50	651666	3774.99	CP-OFDM QPSK	1@1	21.69	20.79	0.1199
78	15	50	651666	3774.99	CP-OFDM QPSK	1@268	21.65	20.75	0.1189

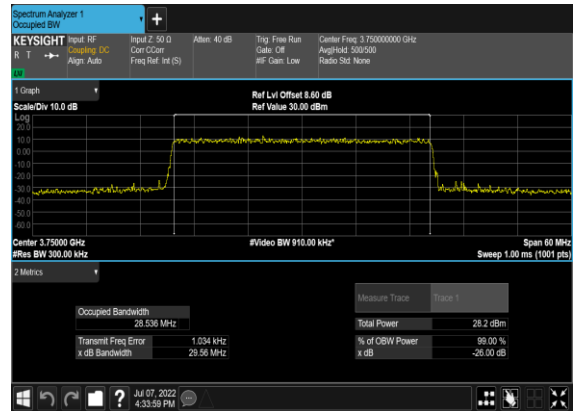
## Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	15	30	650000	3750.0	DFT-s-OFDM PI/2 BPSK	160@0	28.586	29.58
78	15	30	650000	3750.0	DFT-s-OFDM QPSK	160@0	28.536	29.56
78	15	30	650000	3750.0	CP-OFDM QPSK	160@0	28.496	29.72
78	15	30	650000	3750.0	CP-OFDM 16 QAM	160@0	28.515	29.82
78	15	30	650000	3750.0	CP-OFDM 64 QAM	160@0	28.493	29.47
78	15	30	650000	3750.0	CP-OFDM 256 QAM	160@0	28.54	29.66

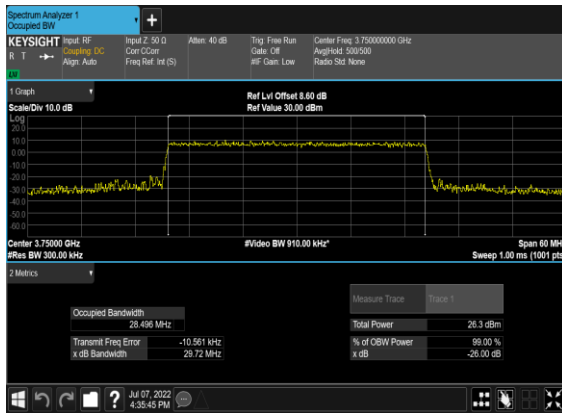
### N78(30M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



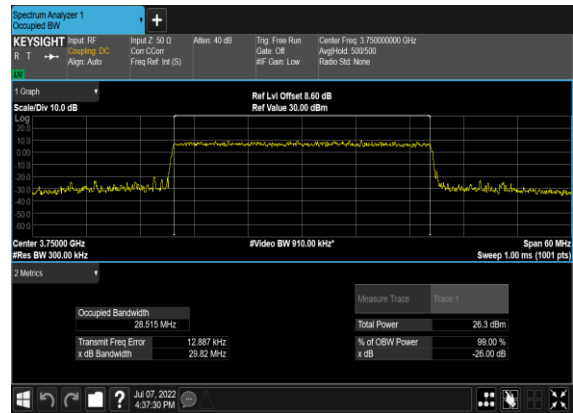
### N78(30M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



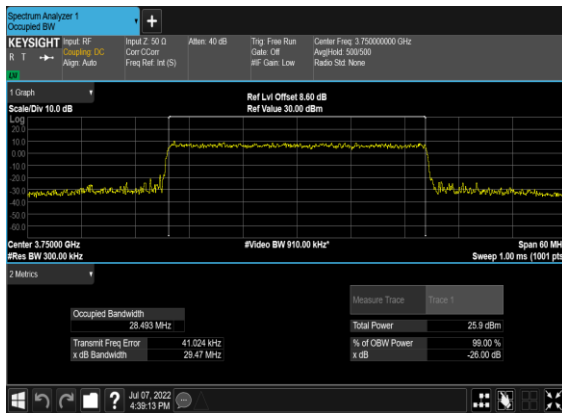
### N78(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



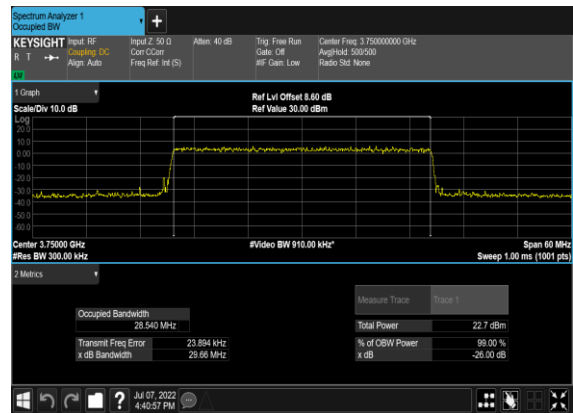
### N78(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



### N78(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



### N78(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



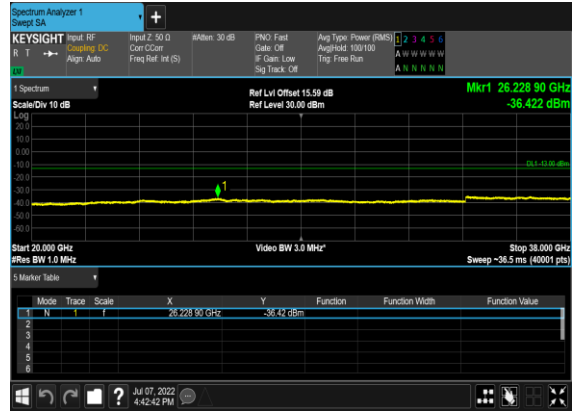
## Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	30	647667	3715.005	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	30	647667	3715.005	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
78	15	30	647667	3715.005	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	15	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
78	15	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
78	15	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	15	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	15	30	652333	3784.995	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	30	652333	3784.995	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
78	15	30	652333	3784.995	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>

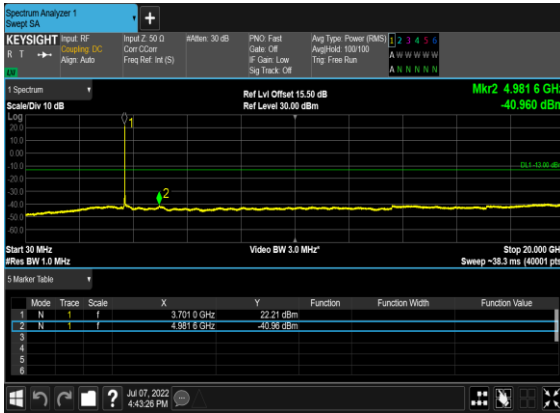
### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



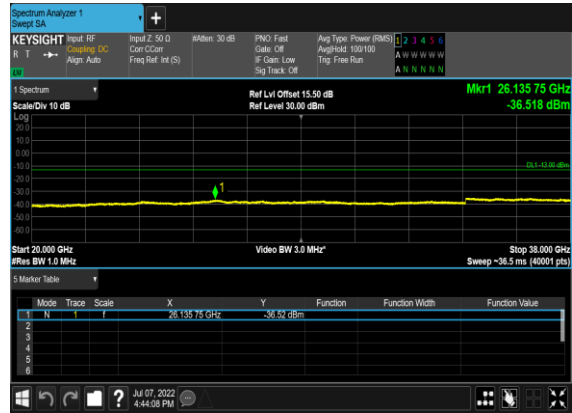
### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



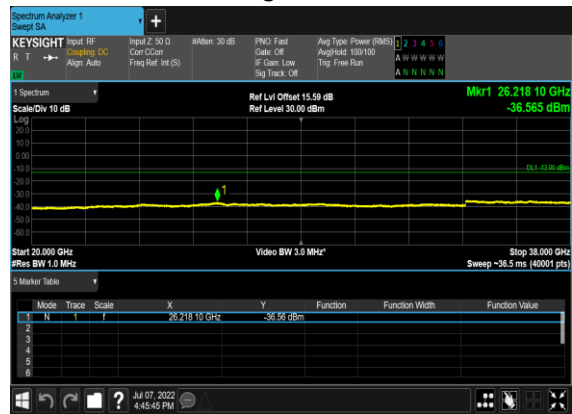
### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH

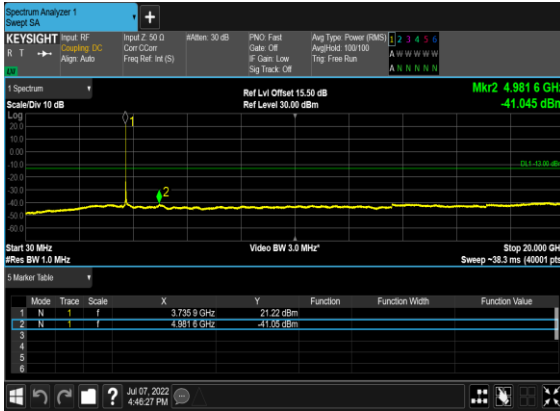


### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH

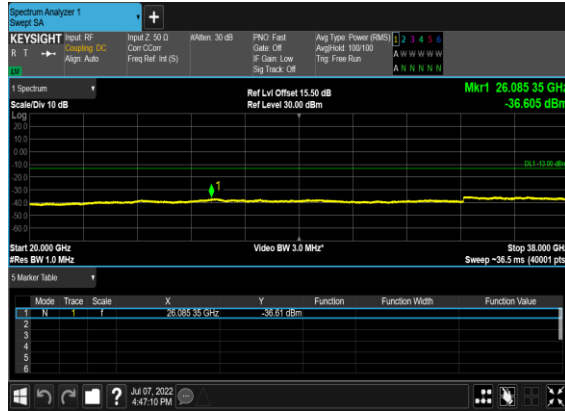




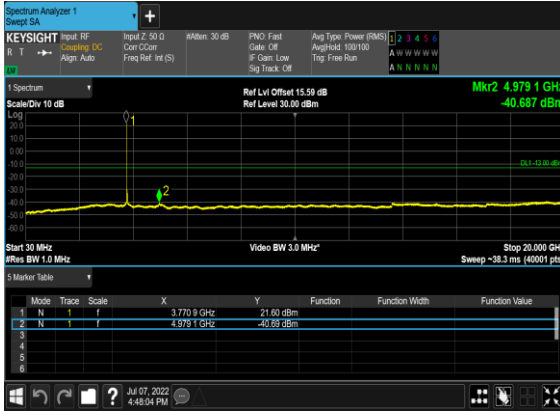
### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



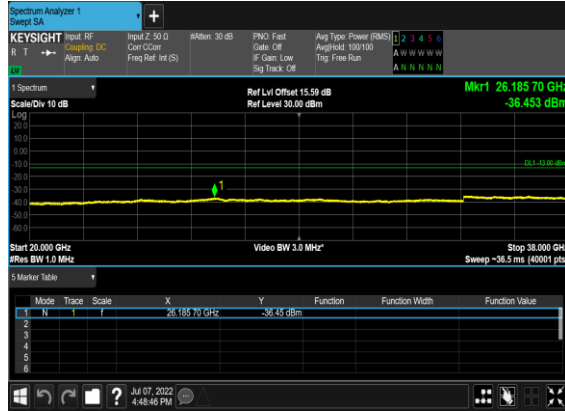
### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



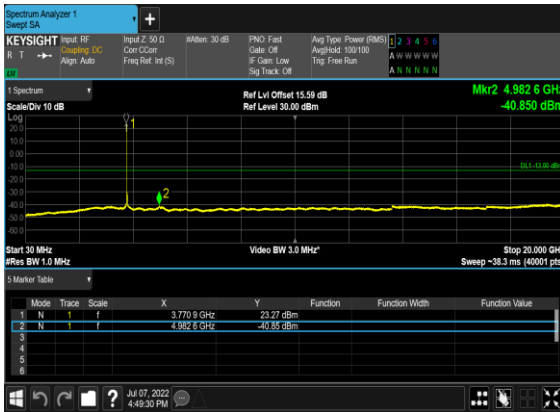
### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



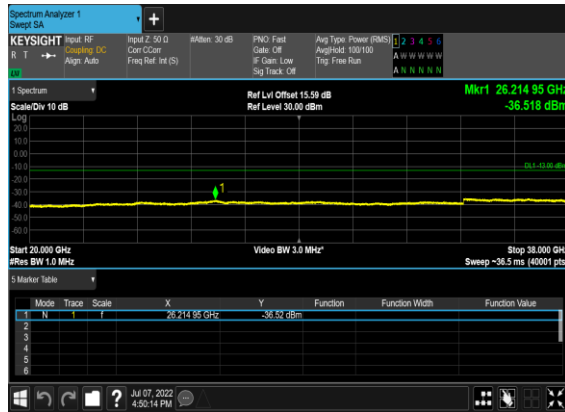
### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



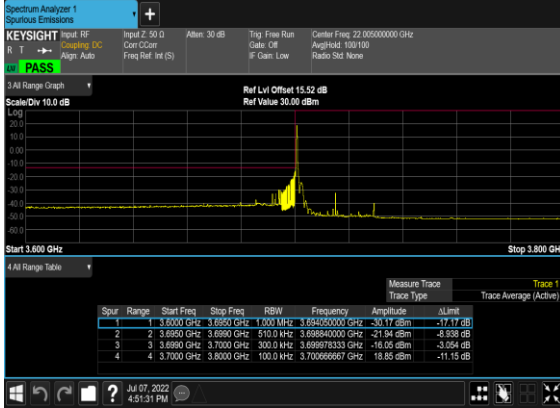
### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



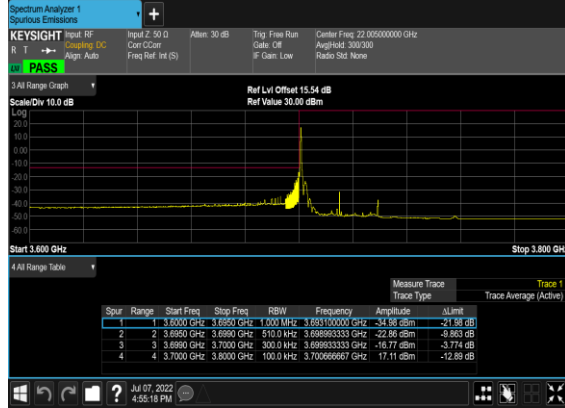
## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	30	647667	3715.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	30	647667	3715.005	DFT-s-OFDM BPSK	160@0	see graph	PASS
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	160@0	see graph	PASS
78	15	30	652333	3784.995	DFT-s-OFDM BPSK	1@159	see graph	PASS
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@159	see graph	PASS
78	15	30	652333	3784.995	DFT-s-OFDM BPSK	160@0	see graph	PASS
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	160@0	see graph	PASS

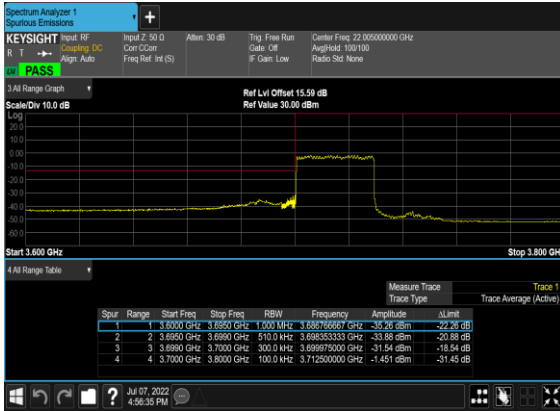
N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



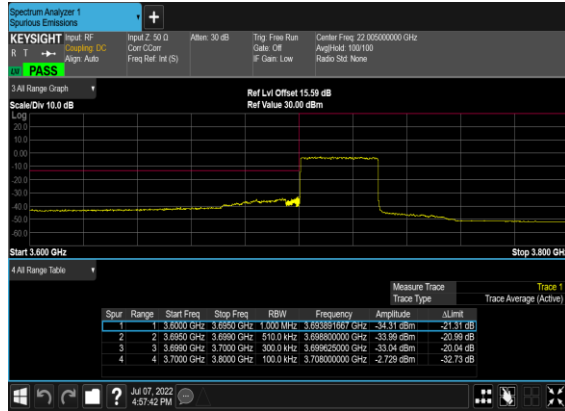
N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N78(30M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



N78(30M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



## N78(30M)\_DFT-s- OFDM\_BPSK\_Outer\_Full\_High\_CH



## N78(30M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N78

## Transmitter Conducted Output Power And EIRP (Ant. 11), (GT-LC)=-0.9dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	23.32	22.42	0.1746
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	22.3	21.4	0.1380
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	23.34	22.44	0.1754
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.22	21.32	0.1355
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	23.44	22.54	0.1795
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	22.4	21.5	0.1413
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	23.27	22.37	0.1726
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	22.32	21.42	0.1387
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	23.31	22.41	0.1742
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.29	21.39	0.1377
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	23.33	22.43	0.1750
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	22.31	21.41	0.1384
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	23.18	22.28	0.1690
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	22.21	21.31	0.1352
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	23.19	22.29	0.1694
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.28	21.38	0.1374
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	23.29	22.39	0.1734
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	22.29	21.39	0.1377
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	23.1	22.2	0.1660
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	22.11	21.21	0.1321
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	23.02	22.12	0.1629
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	22	21.1	0.1288
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	23.01	22.11	0.1626
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	21.95	21.05	0.1274
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	22.81	21.91	0.1552
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	21.9	21	0.1259
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	22.76	21.86	0.1535

NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.83	20.93	0.1239
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	22.8	21.9	0.1549
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	21.84	20.94	0.1242
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	23.12	22.22	0.1667
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	22.15	21.25	0.1334
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	23.05	22.15	0.1641
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.11	21.21	0.1321
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	23.03	22.13	0.1633
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	22.04	21.14	0.1300
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	22.95	22.05	0.1603
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	21.98	21.08	0.1282
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	22.92	22.02	0.1592
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.99	21.09	0.1285
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	22.87	21.97	0.1574
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	21.9	21	0.1259
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	22.87	21.97	0.1574
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	21.88	20.98	0.1253
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	22.75	21.85	0.1531
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.75	20.85	0.1216
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	22.81	21.91	0.1552
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	21.71	20.81	0.1205
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	22.73	21.83	0.1524
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	21.78	20.88	0.1225
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	22.67	21.77	0.1503
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.6	20.7	0.1175
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	22.65	21.75	0.1496
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	21.67	20.77	0.1194
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	23.34	22.44	0.1754
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.56	21.66	0.1466
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	22.74	21.84	0.1528
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	23.45	22.55	0.1799

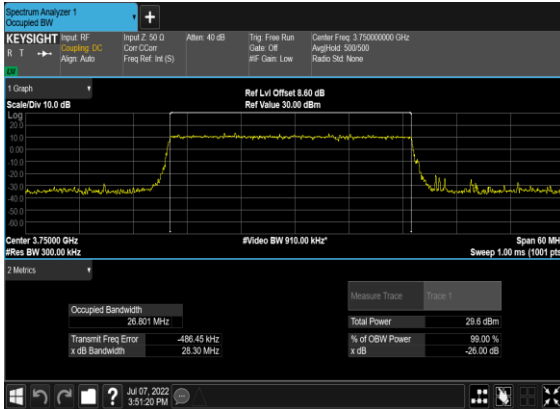
NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	22.6	21.7	0.1479
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	22.77	21.87	0.1538
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	22.34	21.44	0.1393
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.53	20.63	0.1156
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	21.85	20.95	0.1245
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	21.01	20.11	0.1026
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	20.49	19.59	0.0910
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	20.67	19.77	0.0948
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	18.99	18.09	0.0644
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	18.09	17.19	0.0524
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	18.25	17.35	0.0543
78	30	100	650000	3750	CP-OFDM QPSK	137@68	21.84	20.94	0.1242
78	30	100	650000	3750	CP-OFDM QPSK	1@1	21.03	20.13	0.1030
78	30	100	650000	3750	CP-OFDM QPSK	1@271	21.21	20.31	0.1074

## Occupied Bandwidth

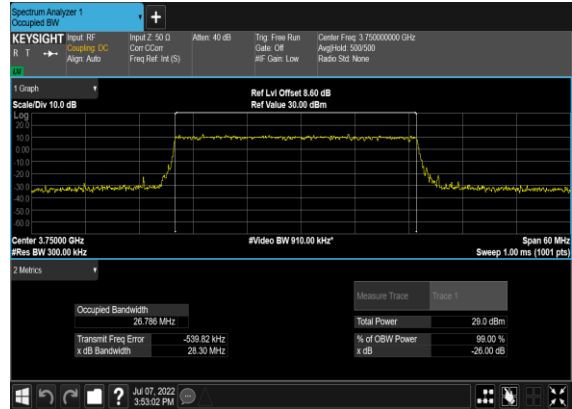
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	30	30	650000	3750.0	DFT-s-OFDM PI/2 BPSK	75@0	26.801	28.3
78	30	30	650000	3750.0	DFT-s-OFDM QPSK	75@0	26.786	28.3
78	30	30	650000	3750.0	CP-OFDM QPSK	78@0	27.812	29.57
78	30	30	650000	3750.0	CP-OFDM 16 QAM	78@0	27.87	29.3
78	30	30	650000	3750.0	CP-OFDM 64 QAM	78@0	27.784	29.04
78	30	30	650000	3750.0	CP-OFDM 256 QAM	78@0	27.828	29.17



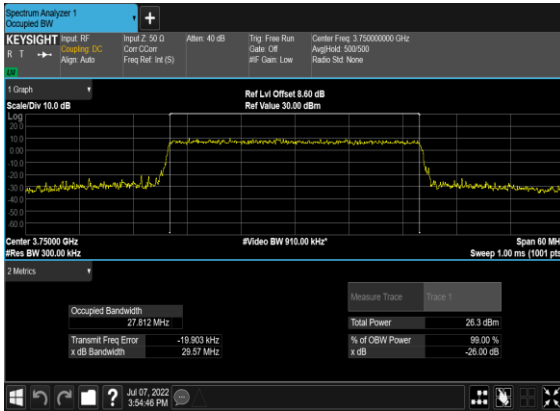
### N78(30M)\_DFT-s-OFDM\_PI-2-BPSK\_Outer\_Full\_Mid\_CH



### N78(30M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



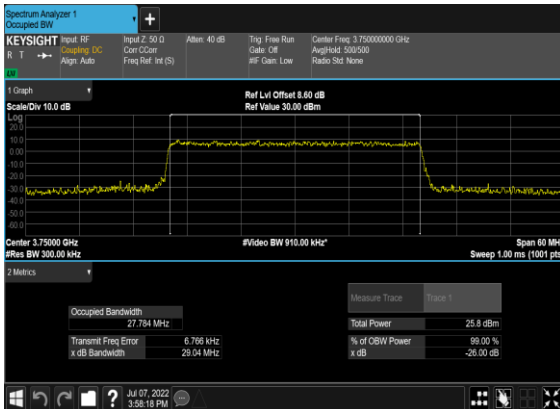
### N78(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



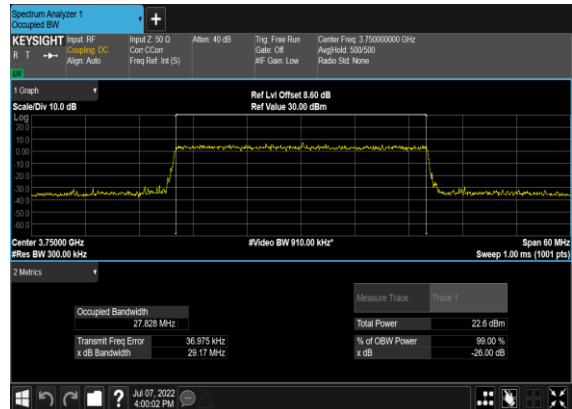
### N78(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



### N78(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



### N78(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



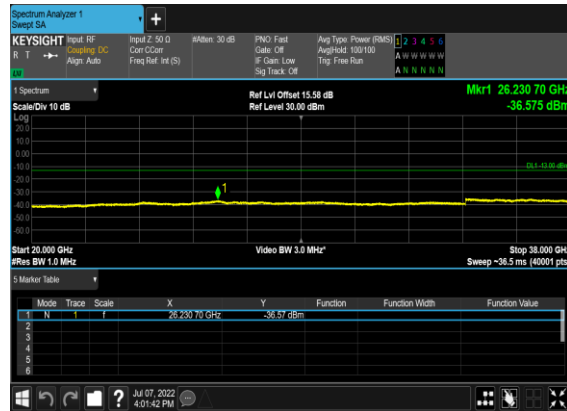
## Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	30	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	30	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@0	see graph	PASS

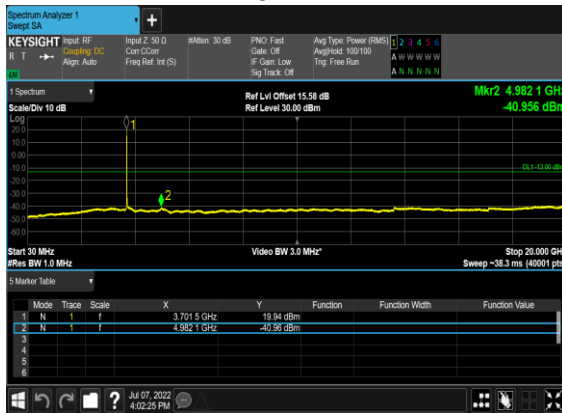
N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



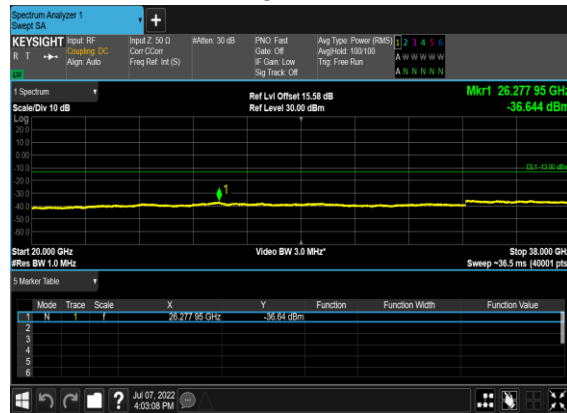
N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



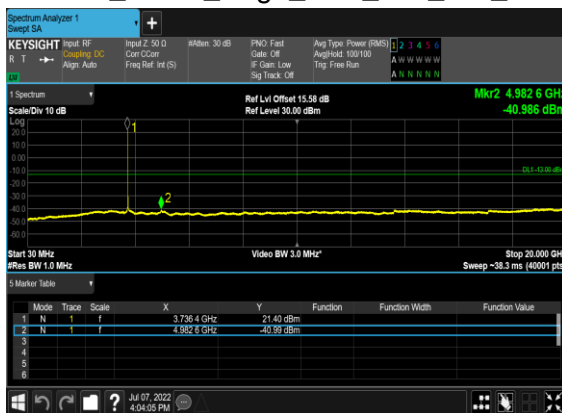
N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



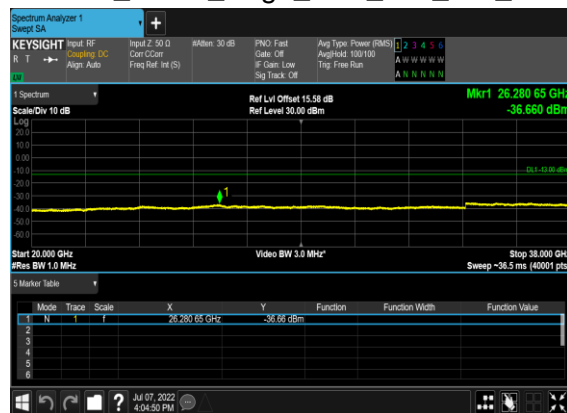
N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



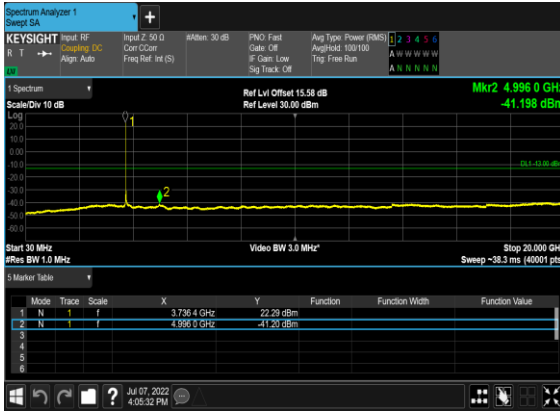
N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



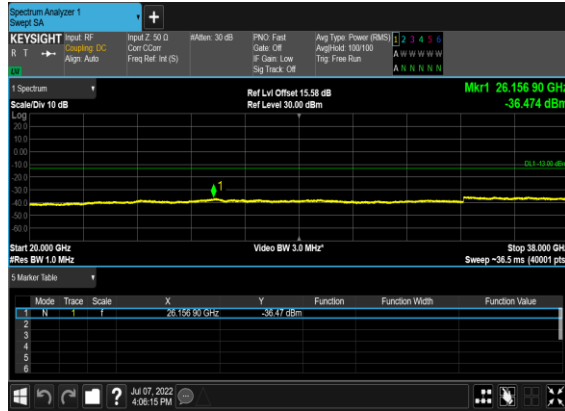
N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



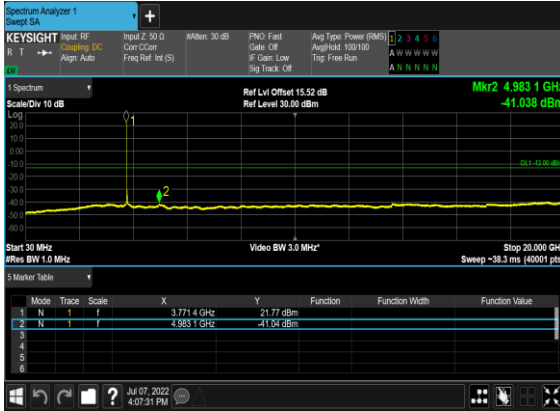
### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



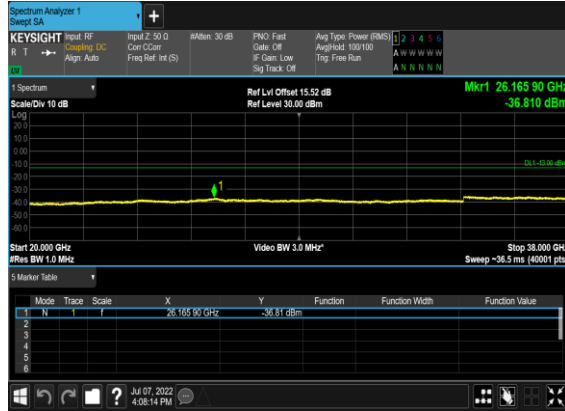
### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



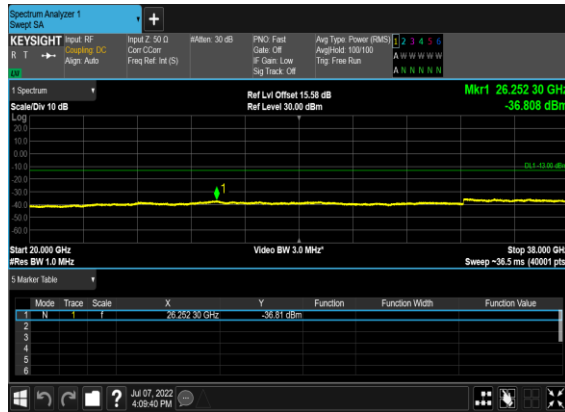
### N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



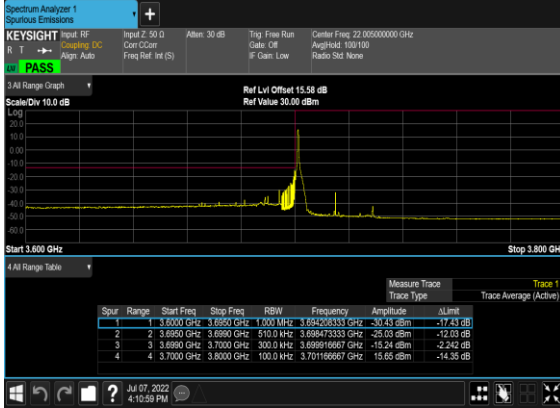
### N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



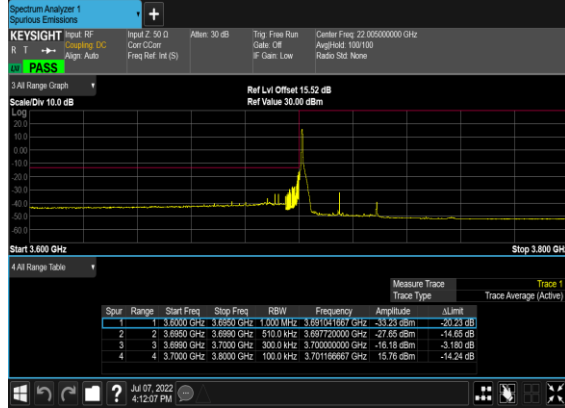
## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	30	647668	3715.02	DFT-s-OFDM BPSK	75@0	see graph	PASS
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	75@0	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	1@77	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@77	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM BPSK	75@0	see graph	PASS
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	75@0	see graph	PASS

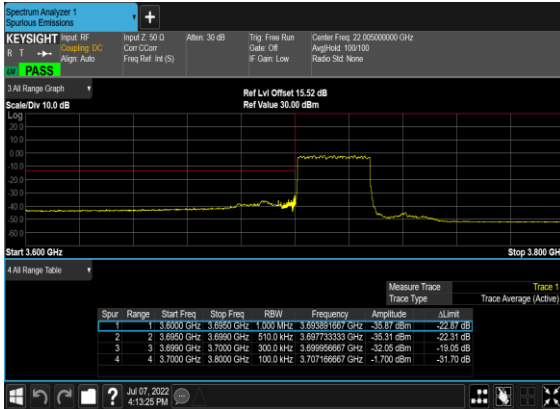
N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



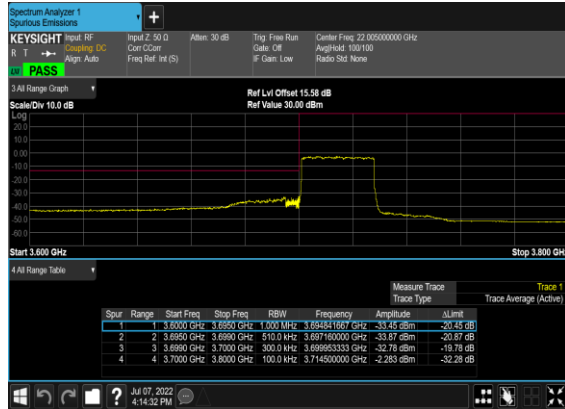
N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



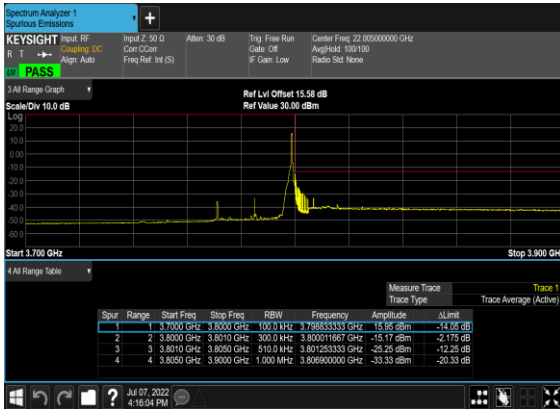
N78(30M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



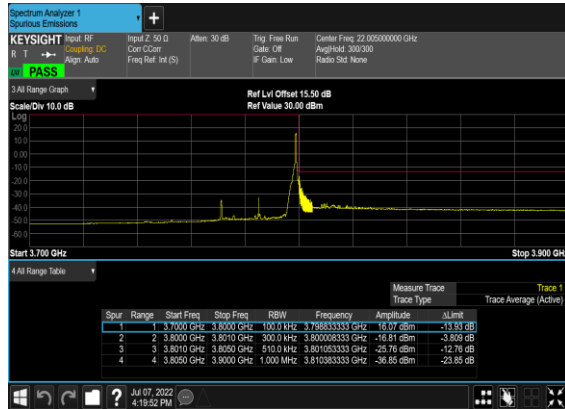
N78(30M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



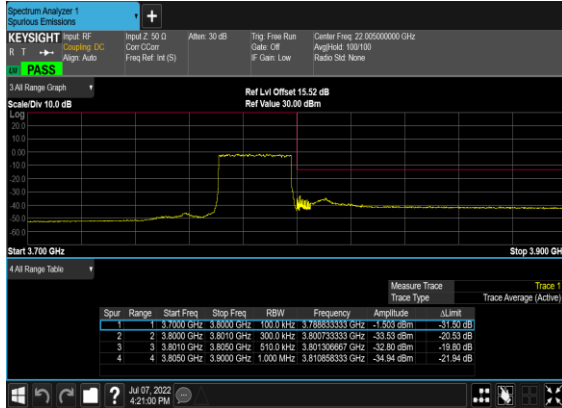
N78(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



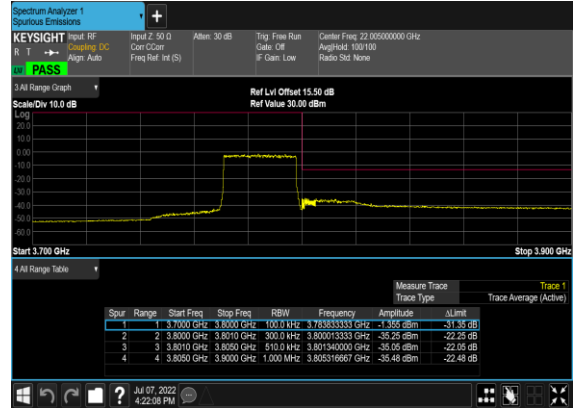
N78(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



## N78(30M)\_DFT-s- OFDM\_BPSK\_Outer\_Full\_High\_CH



## N78(30M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_High\_CH





# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	Shiwei Wen	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for testing, we choose the worst antenna mode to test.

SA n77 / 100MHz / QPSK / ANT11									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7582.00	-58.22	-13	-45.22	-66.16	-61.52	8.30	11.60	H
	11373.00	-54.26	-13	-41.26	-68.22	-55.78	10.48	12.00	H
	15164.00	-53.18	-13	-40.18	-70.07	-54.88	11.80	13.50	H
	7582.00	-58.67	-13	-45.67	-66.61	-61.97	8.30	11.60	V
	11373.00	-49.60	-13	-36.60	-67.64	-51.12	10.48	12.00	V
	15164.00	-53.22	-13	-40.22	-70.10	-54.92	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SA n78 / 100MHz / QPSK / ANT12									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7401.00	-57.62	-13	-44.62	-66.03	-60.92	8.30	11.60	H
	11101.50	-54.94	-13	-41.94	-68.78	-56.46	10.48	12.00	H
	14802.00	-54.40	-13	-41.40	-70.02	-56.10	11.80	13.50	H
	7401.00	-57.93	-13	-44.93	-66.31	-61.23	8.30	11.60	V
	11101.50	-52.69	-13	-39.69	-68.46	-54.21	10.48	12.00	V
	14802.00	-53.71	-13	-40.71	-69.61	-55.41	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.





EN-DC 41A_n78A / 20MHz + 100MHz / QPSK / ANT13+ANT11									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
n78 Middle	7401.00	-57.40	-13	-44.40	-65.81	-60.70	8.30	11.60	H
	11101.50	-54.48	-13	-41.48	-68.32	-56.00	10.48	12.00	H
	14802.00	-53.89	-13	-40.89	-69.51	-55.59	11.80	13.50	H
	7401.00	-57.26	-13	-44.26	-65.64	-60.56	8.30	11.60	V
	11101.50	-52.26	-13	-39.26	-68.03	-53.78	10.48	12.00	V
	14802.00	-53.80	-13	-40.80	-69.70	-55.50	11.80	13.50	V
B41 Middle	5168.00	-60.16	-25	-35.16	-64.42	-65.72	7.14	12.70	H
	7752.00	-58.47	-25	-33.47	-66.05	-61.77	8.30	11.60	H
	10336.00	-56.55	-25	-31.55	-68.28	-58.07	10.48	12.00	H
	5168.00	-59.79	-25	-34.79	-64.55	-65.35	7.14	12.70	V
	7752.00	-55.31	-25	-30.31	-65.98	-58.61	8.30	11.60	V
	10336.00	-54.71	-25	-29.71	-68.19	-56.23	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.