



**FR1 N77 MIMO_ANT7****Frequency Stability**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0017	PASS	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0012	PASS	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0006	PASS	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0000	PASS	-30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0014	PASS	-20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0021	PASS	-10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0015	PASS	0°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0013	PASS	10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0022	PASS	20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0014	PASS	30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0015	PASS	40°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0013	PASS	50°C



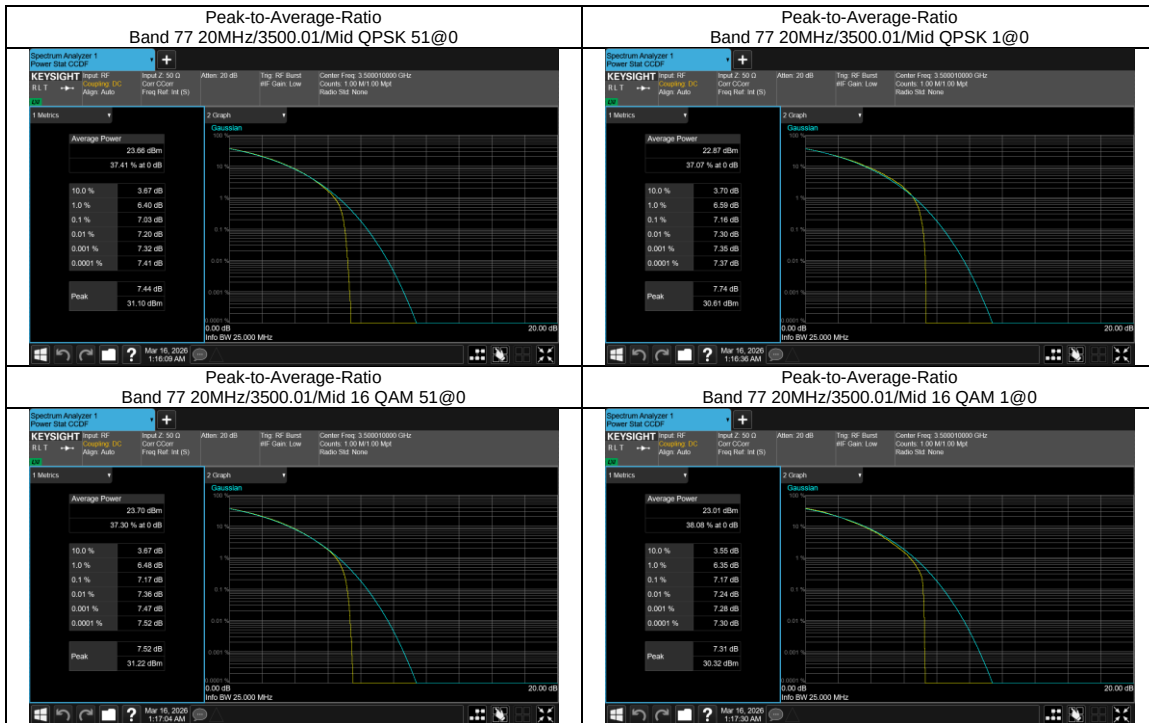
Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	7.03	13
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	7.16	13
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	7.17	13
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	7.17	13



Test Graphs



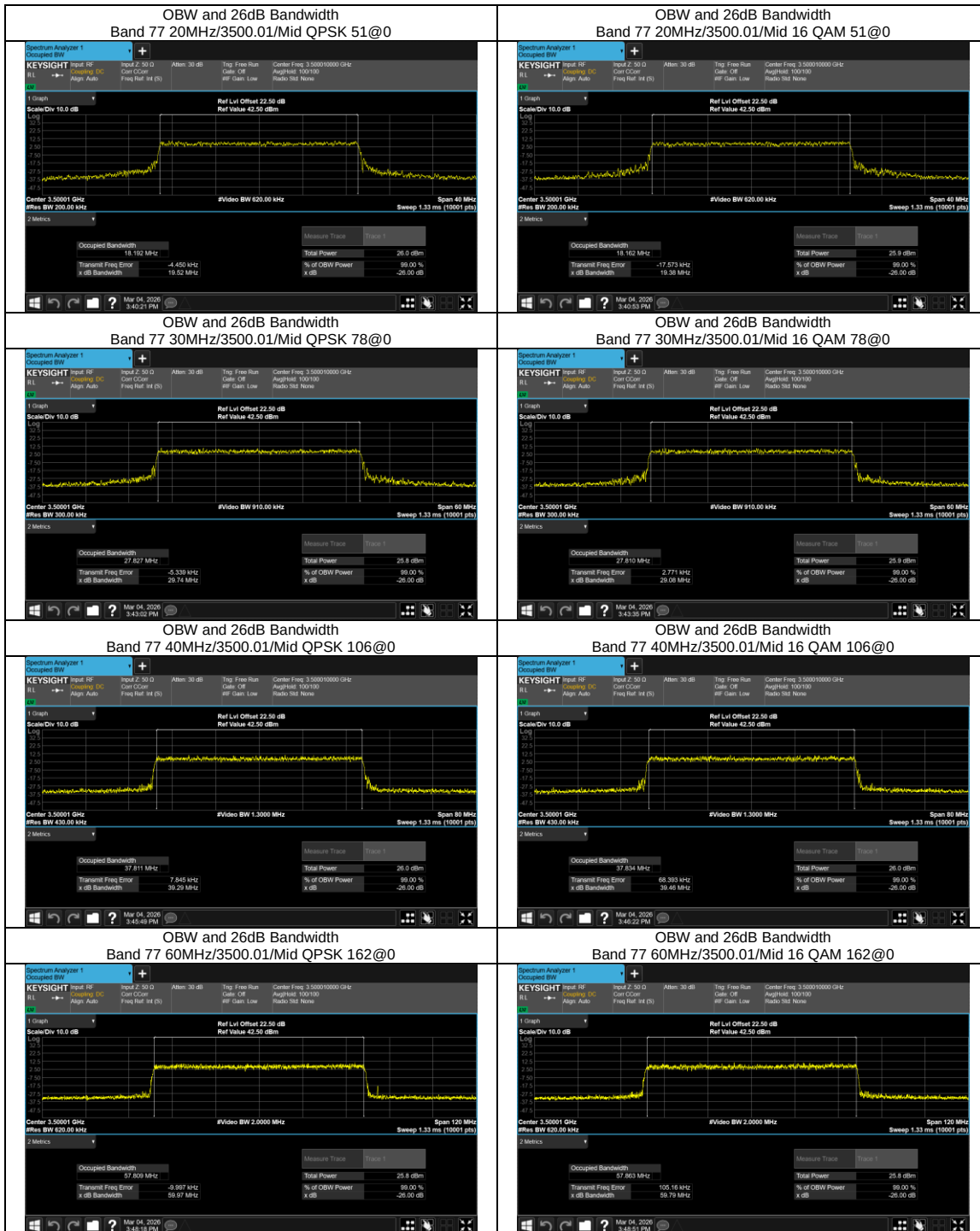
Occupied Bandwidth

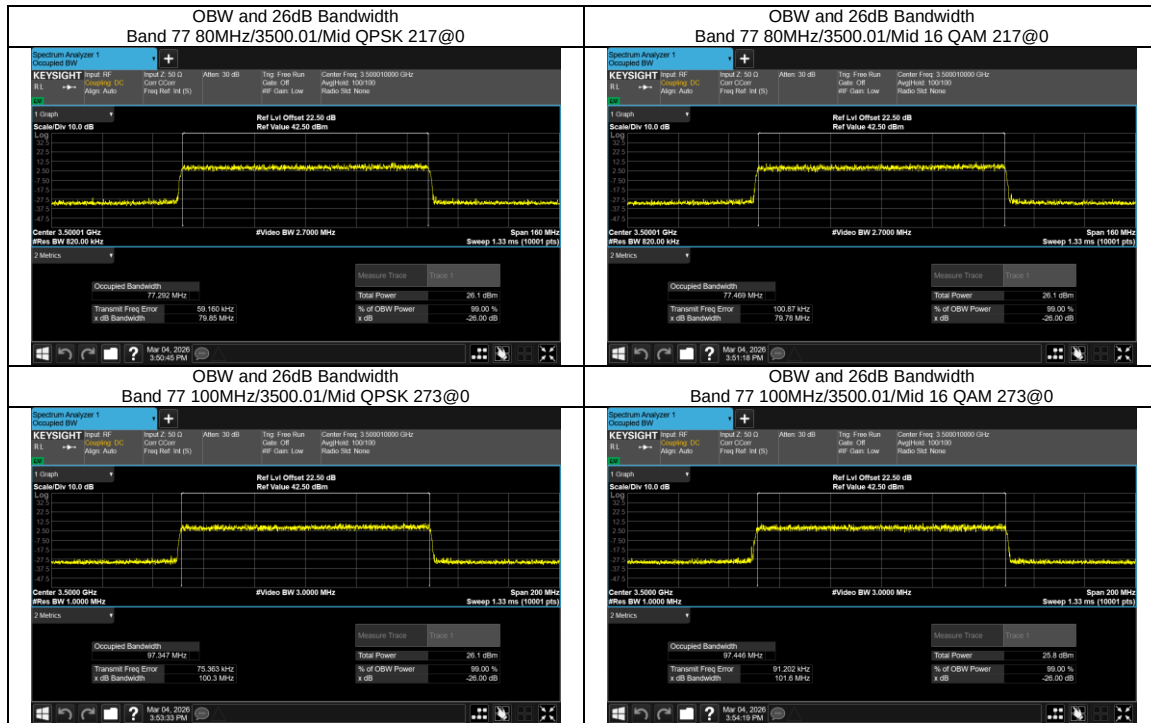
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.19	19.52
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.16	19.38
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.83	29.74
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.81	29.08
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.81	39.29
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.83	39.46
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.81	59.97
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.86	59.79
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.29	79.85
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.47	79.78
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.35	100.3
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.45	101.6



Test Graphs





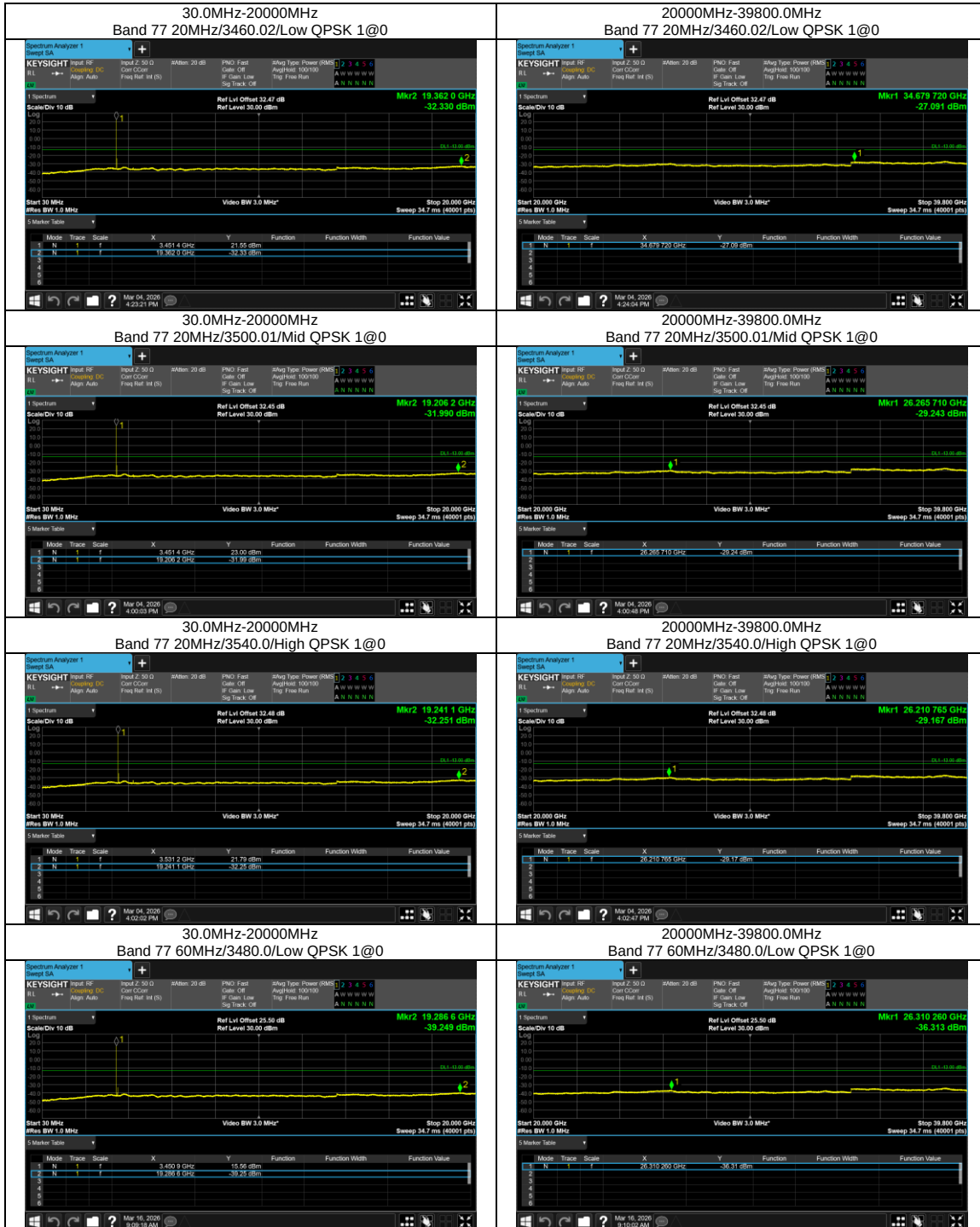
Conducted Spurious Emissions

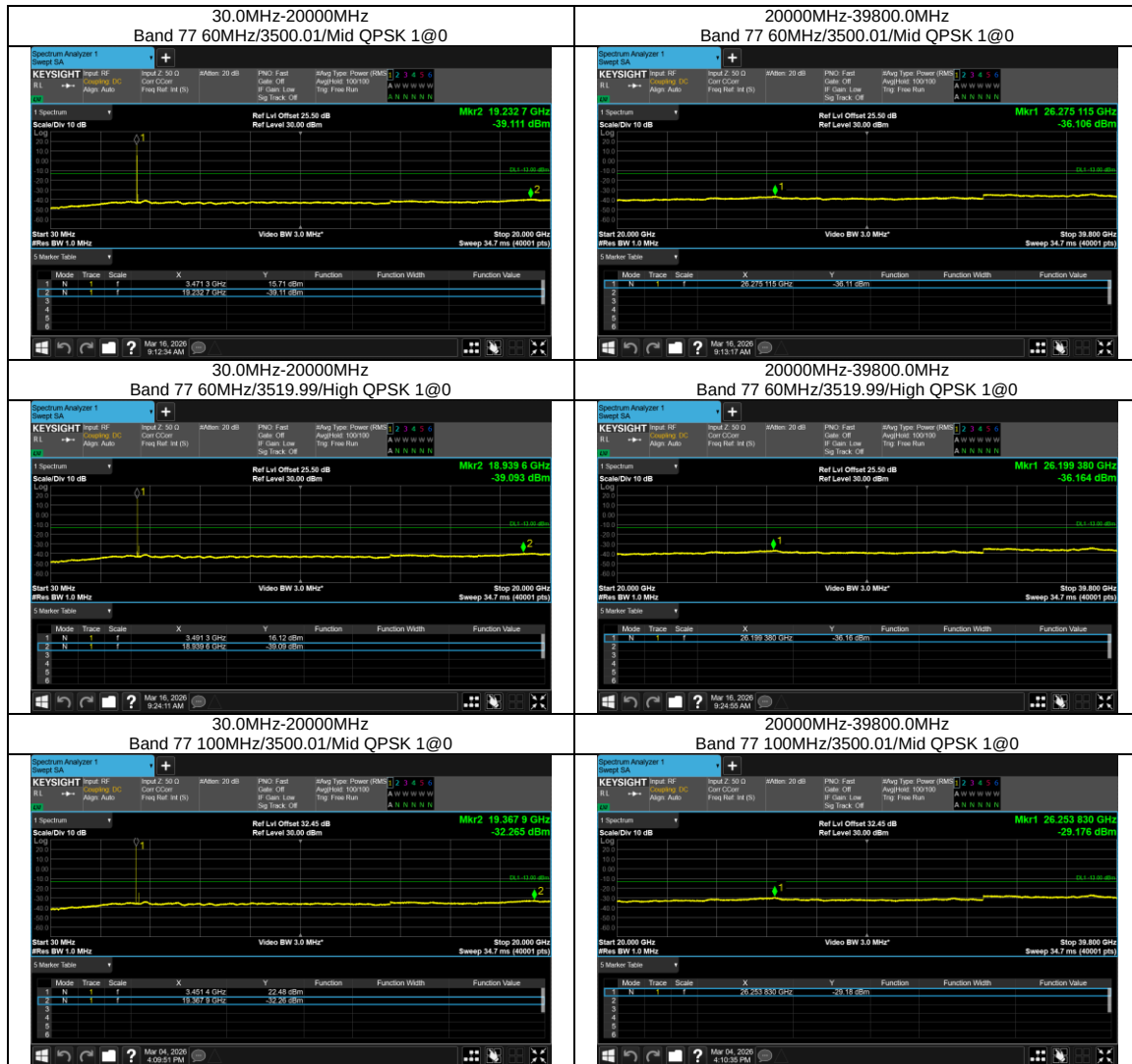
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	See graph	---
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	See graph	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	See graph	---
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	See graph	---
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	See graph	---
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	See graph	---
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	See graph	---
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	See graph	---
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS



Test Graphs





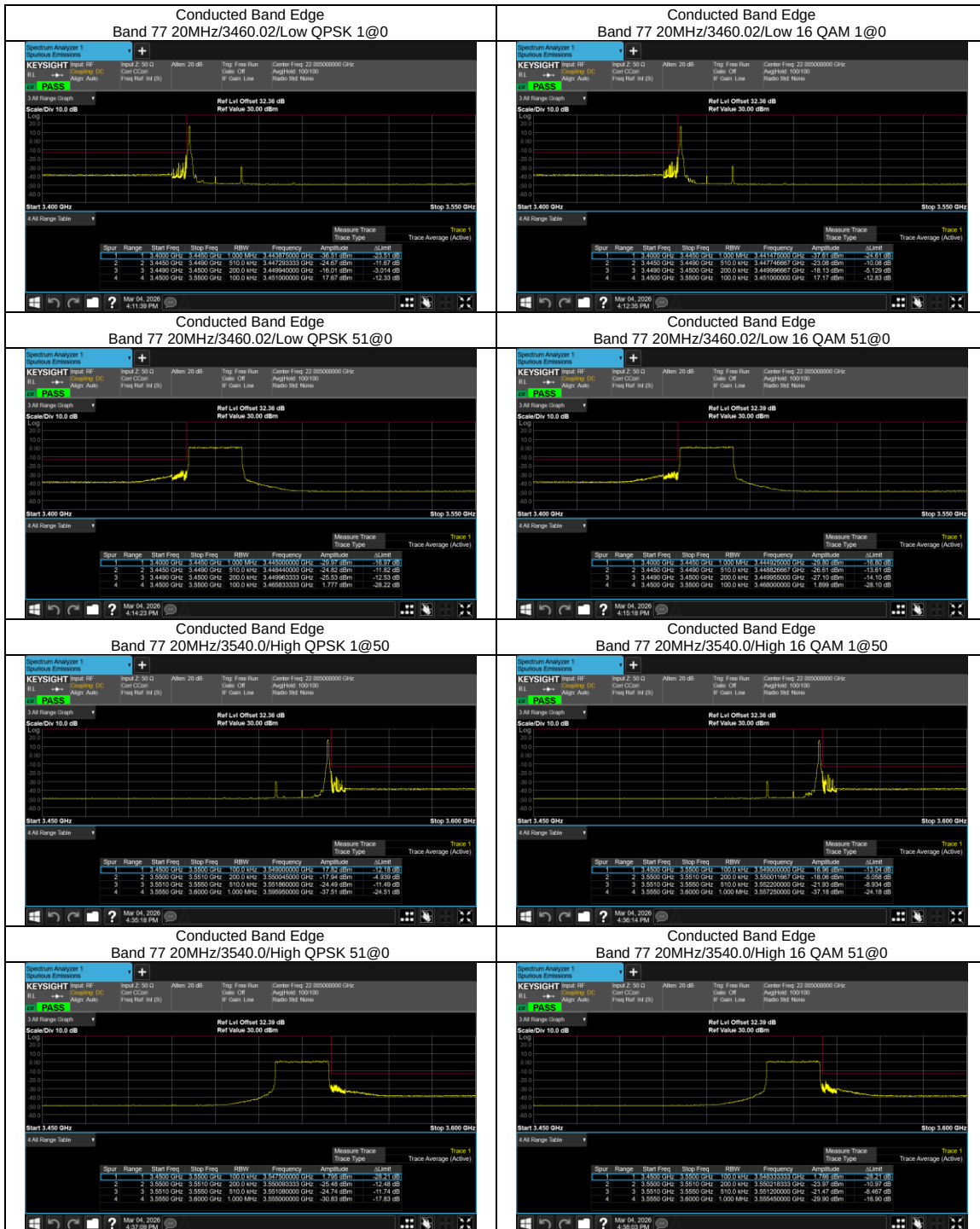
Conducted Band Edge

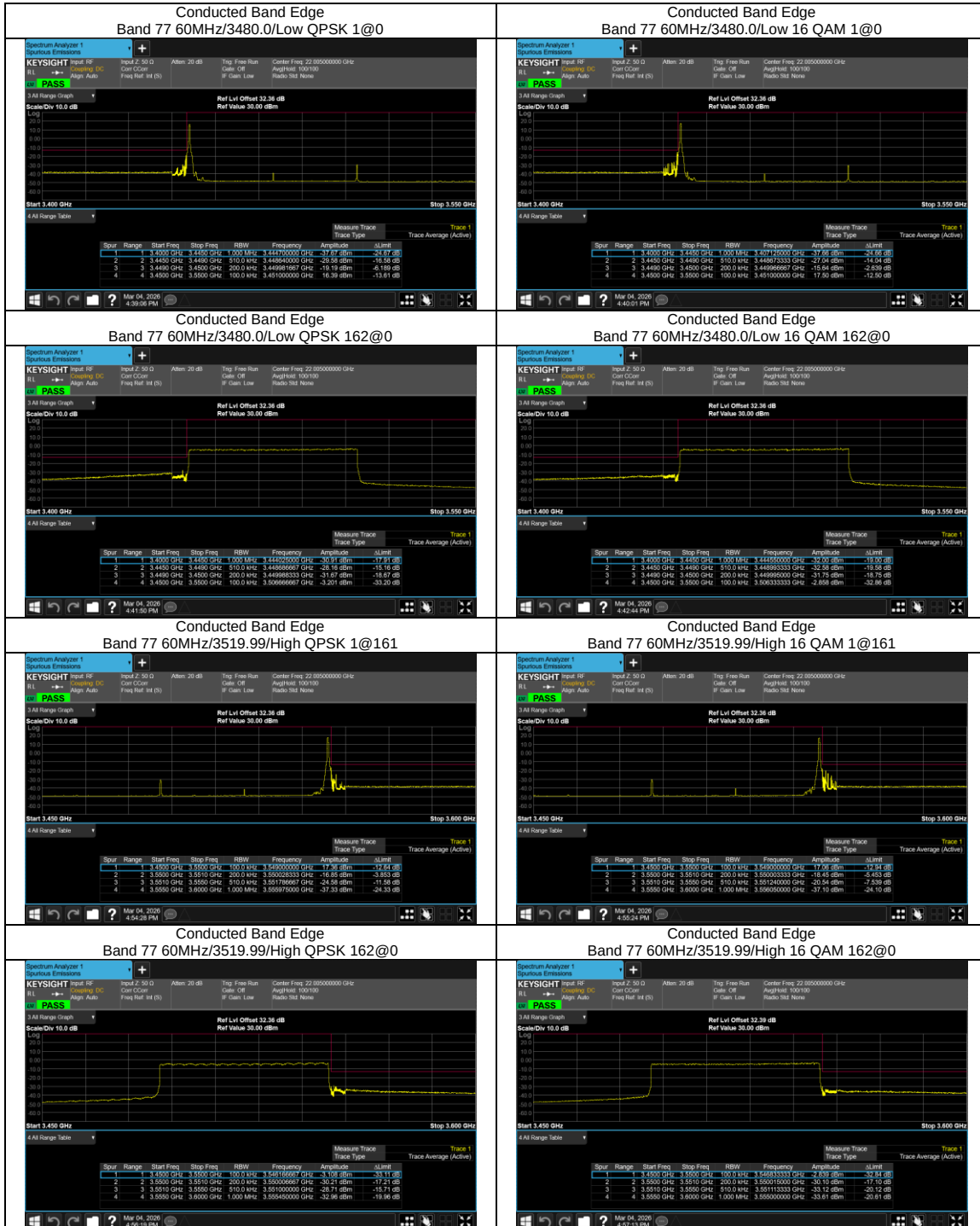
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	See graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	See graph	PASS
77	30	20	630668	3460.02	CP-OFDM QPSK	51@0	See graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	51@0	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@50	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@50	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	51@0	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	51@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	162@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	162@0	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@161	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@161	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	162@0	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	162@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@272	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@272	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	See graph	PASS



Test Graphs









FR1 N78_ANT7

Transmitter Conducted Output Power And EIRP, ($G_T - L_c$)= -0.4 dB

NR Band	SCS	Band Width	Arfcn	Freq. (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP(W)
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	26.91	26.51	0.4477
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.83	26.43	0.4395
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.89	25.49	0.3540
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.73	26.33	0.4295
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.79	26.39	0.4355
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.78	25.38	0.3451
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	26.94	26.54	0.4508
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.97	26.57	0.4539
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	26.04	25.64	0.3664
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	26.96	26.56	0.4529
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.91	26.51	0.4477
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	26.06	25.66	0.3681
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.06	26.66	0.4634
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.07	26.67	0.4645
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.07	25.67	0.3690
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	27.04	26.64	0.4613
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.99	26.59	0.4560
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	26.04	25.64	0.3664
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	27.00	26.60	0.4571
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.95	26.55	0.4519
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	26.09	25.69	0.3707
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.18	26.78	0.4764
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.15	26.75	0.4732
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.22	25.82	0.3819
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	26.98	26.58	0.4550
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	27.02	26.62	0.4592
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	26.06	25.66	0.3681
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	26.71	26.31	0.4276

78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.69	26.29	0.4256
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	25.72	25.32	0.3404
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.94	26.54	0.4508
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.90	26.50	0.4467
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.03	25.63	0.3656
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	26.52	26.12	0.4093
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	26.48	26.08	0.4055
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.61	25.21	0.3319
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	26.81	26.41	0.4375
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.73	26.33	0.4295
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.79	25.39	0.3459
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.09	26.69	0.4667
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.98	26.58	0.4550
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.08	25.68	0.3698
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	26.68	26.28	0.4246
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	26.75	26.35	0.4315
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	25.81	25.41	0.3475
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	26.82	26.42	0.4385
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.79	26.39	0.4355
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	25.94	25.54	0.3581
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.94	26.54	0.4508
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.89	26.49	0.4457
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.92	25.52	0.3565
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	27.04	26.64	0.4613
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	27.04	26.64	0.4613
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	26.10	25.70	0.3715
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	26.73	26.33	0.4295
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.79	26.39	0.4355
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.81	25.41	0.3475
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.82	26.42	0.4385
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.83	26.43	0.4395
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.98	25.58	0.3614
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	27.01	26.61	0.4581



78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.99	26.59	0.4560
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	26.06	25.66	0.3681
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	26.70	26.30	0.4266
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.67	26.27	0.4236
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	25.69	25.29	0.3381
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.70	26.30	0.4266
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.69	26.29	0.4256
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.79	25.39	0.3459
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	26.82	26.42	0.4385
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	26.81	26.41	0.4375
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	25.92	25.52	0.3565
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.60	26.20	0.4169
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	22.86	22.46	0.1762
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	26.32	25.92	0.3908
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@0	23.02	22.62	0.1828
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.74	26.34	0.4305
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@271	22.64	22.24	0.1675
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	26.23	25.83	0.3828
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.65	26.25	0.4217
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	22.97	22.57	0.1807
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	26.29	25.89	0.3882
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@0	22.99	22.59	0.1816
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.72	26.32	0.4285
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@271	22.66	22.26	0.1683
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	25.68	25.28	0.3373
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.75	25.35	0.3428
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.04	23.64	0.2312
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.86	21.46	0.1400
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	270@0	24.61	24.21	0.2636
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	270@0	24.08	23.68	0.2333
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	270@0	22.00	21.60	0.1445
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	25.05	24.65	0.2917
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	24.63	24.23	0.2649
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	23.15	22.75	0.1884



FR1 N78_ANT4

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0017	PASS	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0014	PASS	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0008	PASS	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0000	PASS	-30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0013	PASS	-20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0020	PASS	-10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0015	PASS	0°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0012	PASS	10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0025	PASS	20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0016	PASS	30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0013	PASS	40°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0012	PASS	50°C



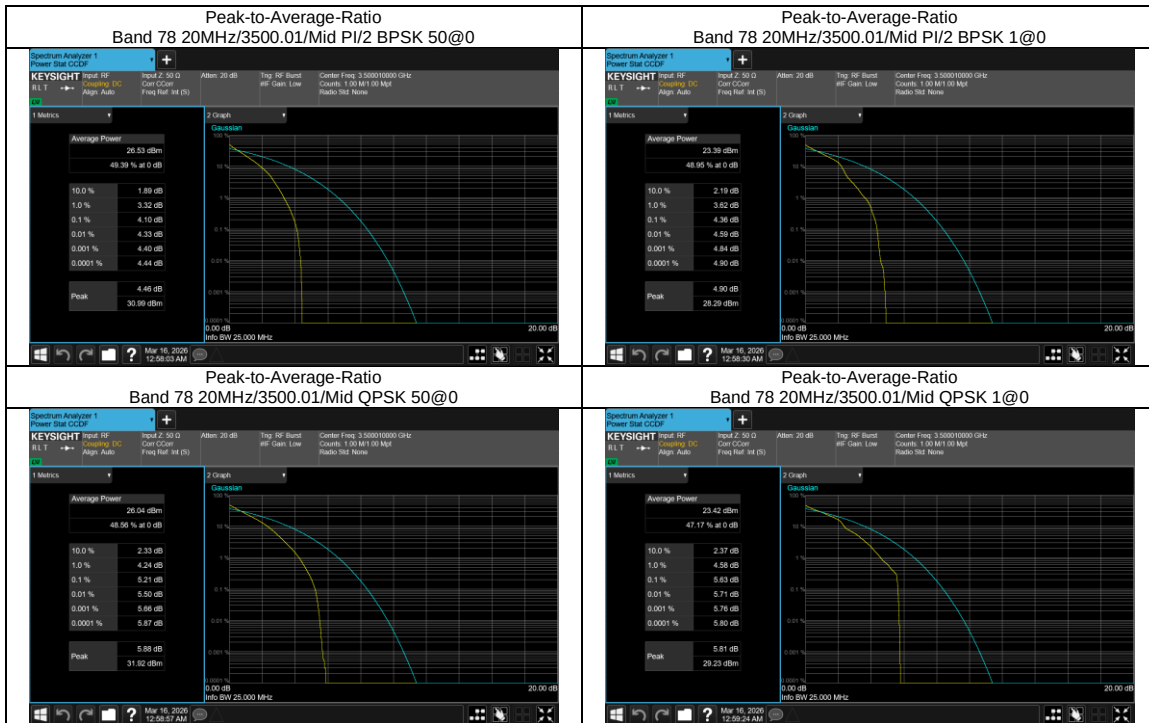
Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.1	13
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	4.36	13
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.21	13
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	5.63	13



Test Graphs





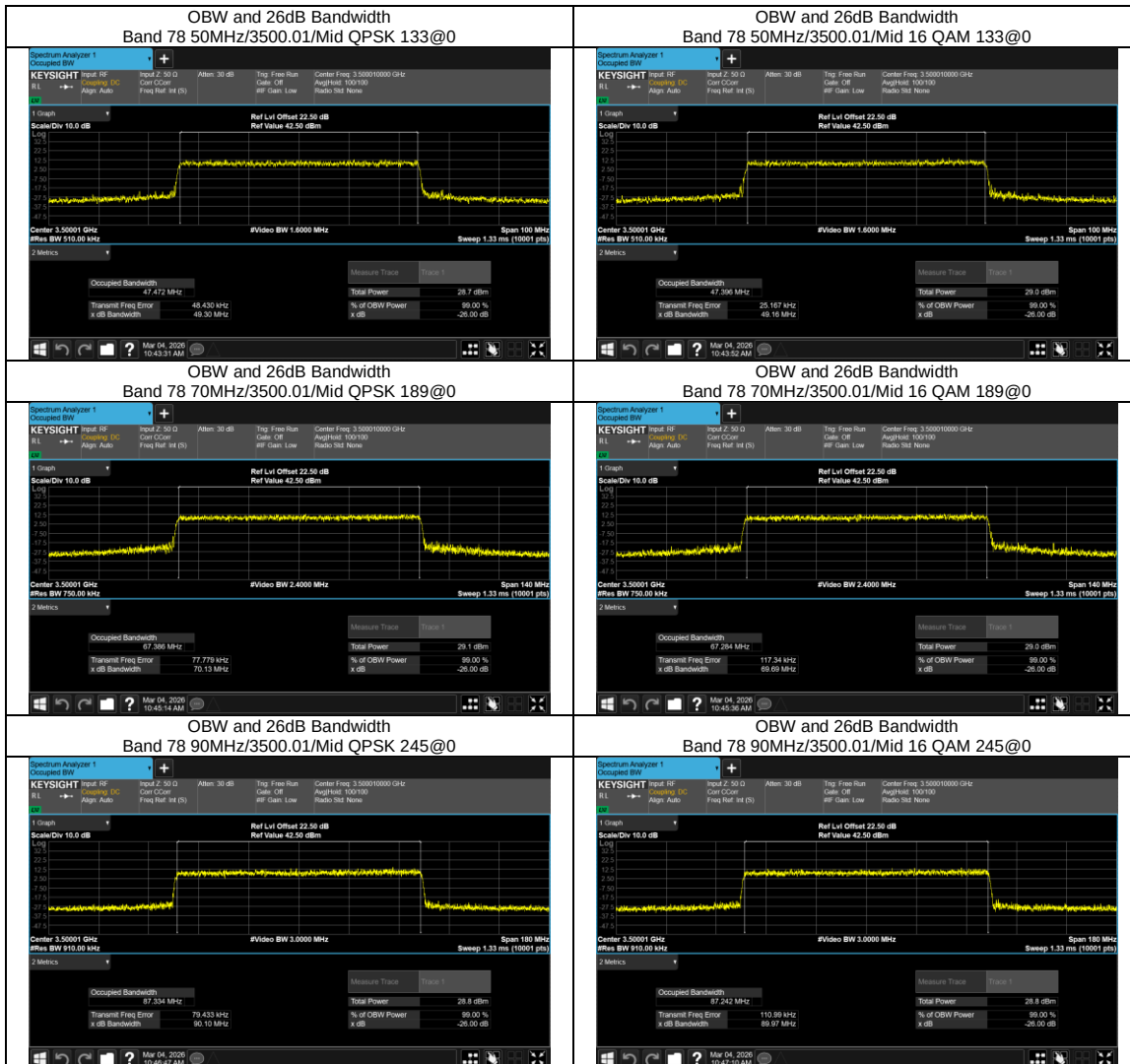
Occupied Bandwidth

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.47	49.3
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.4	49.16
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.39	70.13
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.28	69.69
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.33	90.1
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.24	89.97



Test Graphs



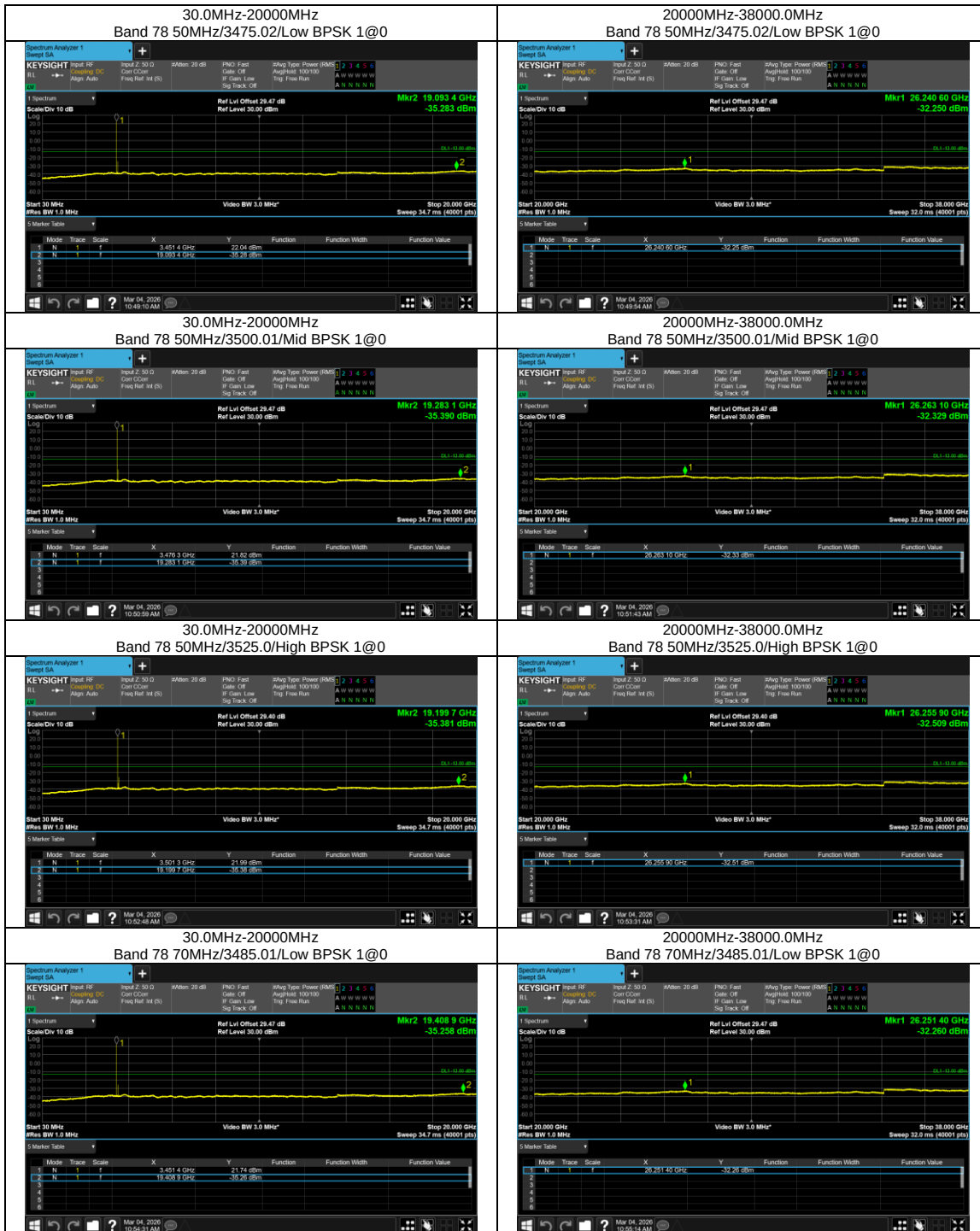
Conducted Spurious Emissions

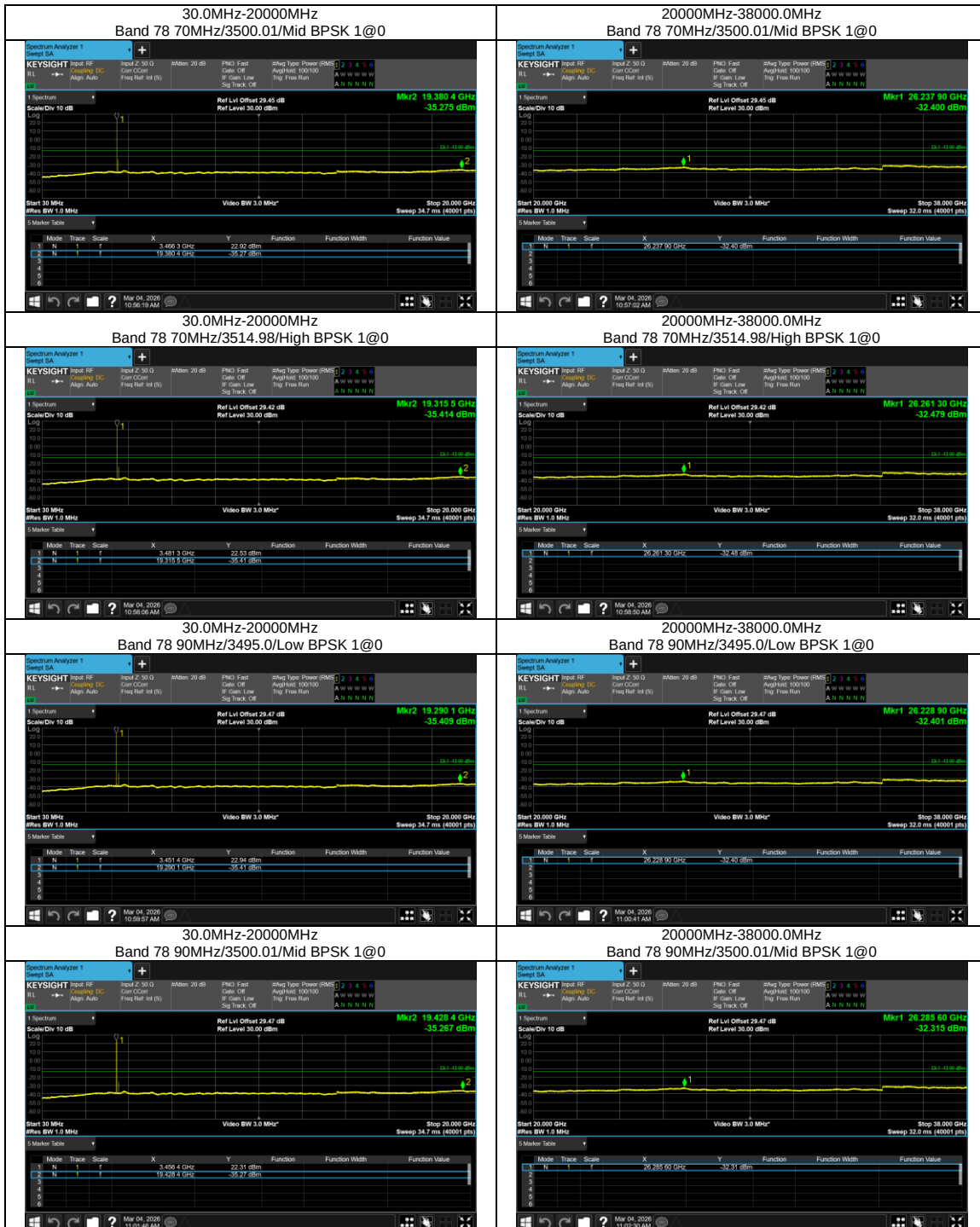
Test Result

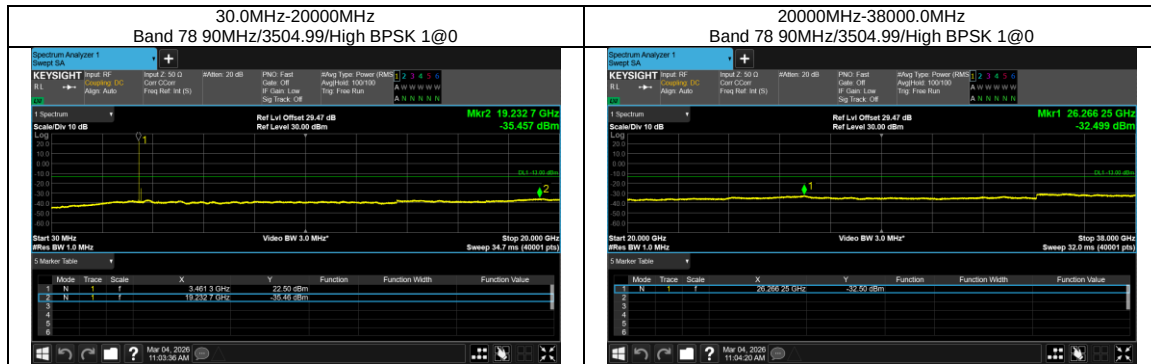
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	70	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	70	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	90	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	90	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	1@0	See graph	---
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	1@0	See graph	PASS



Test Graphs







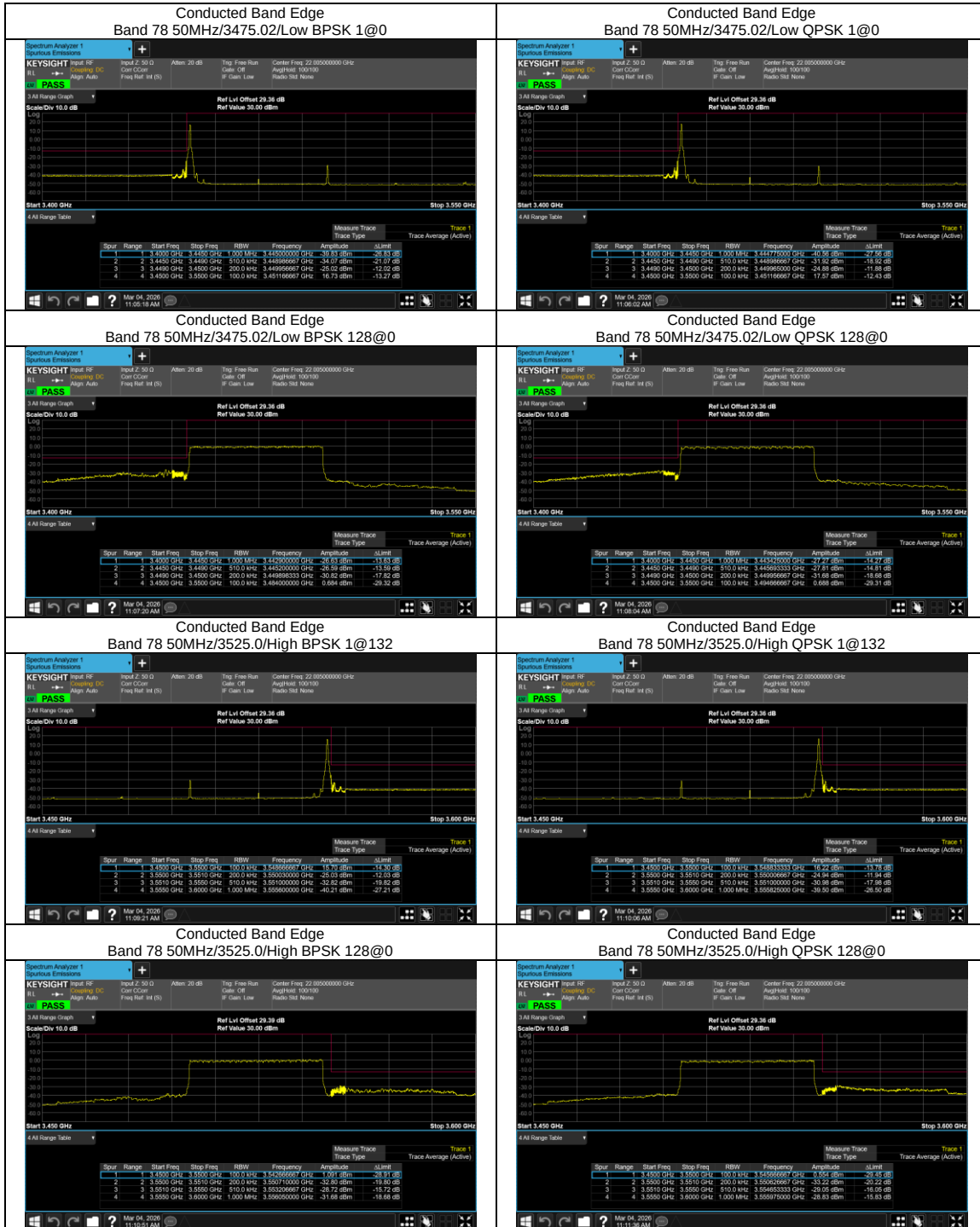
Conducted Band Edge

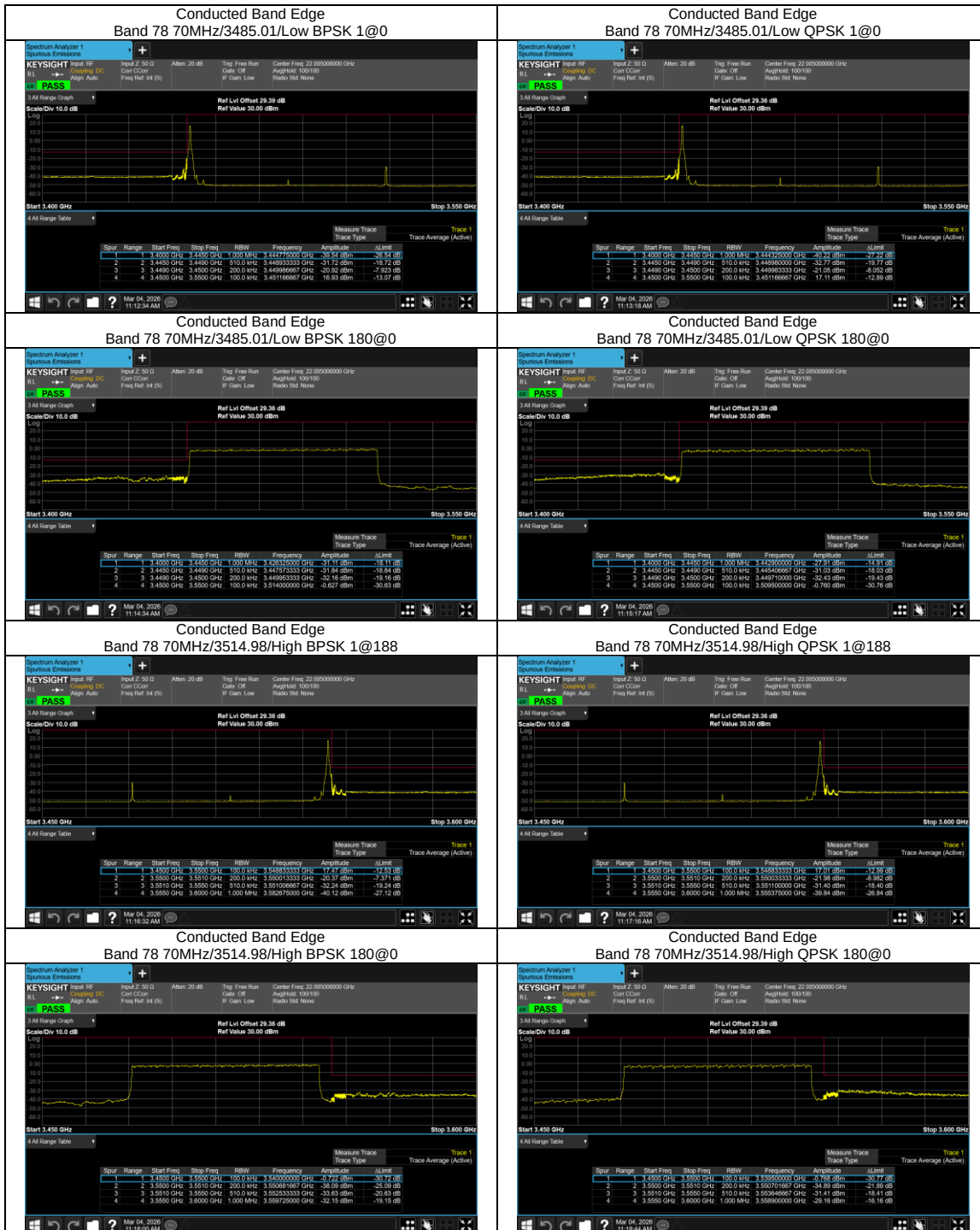
Test Result

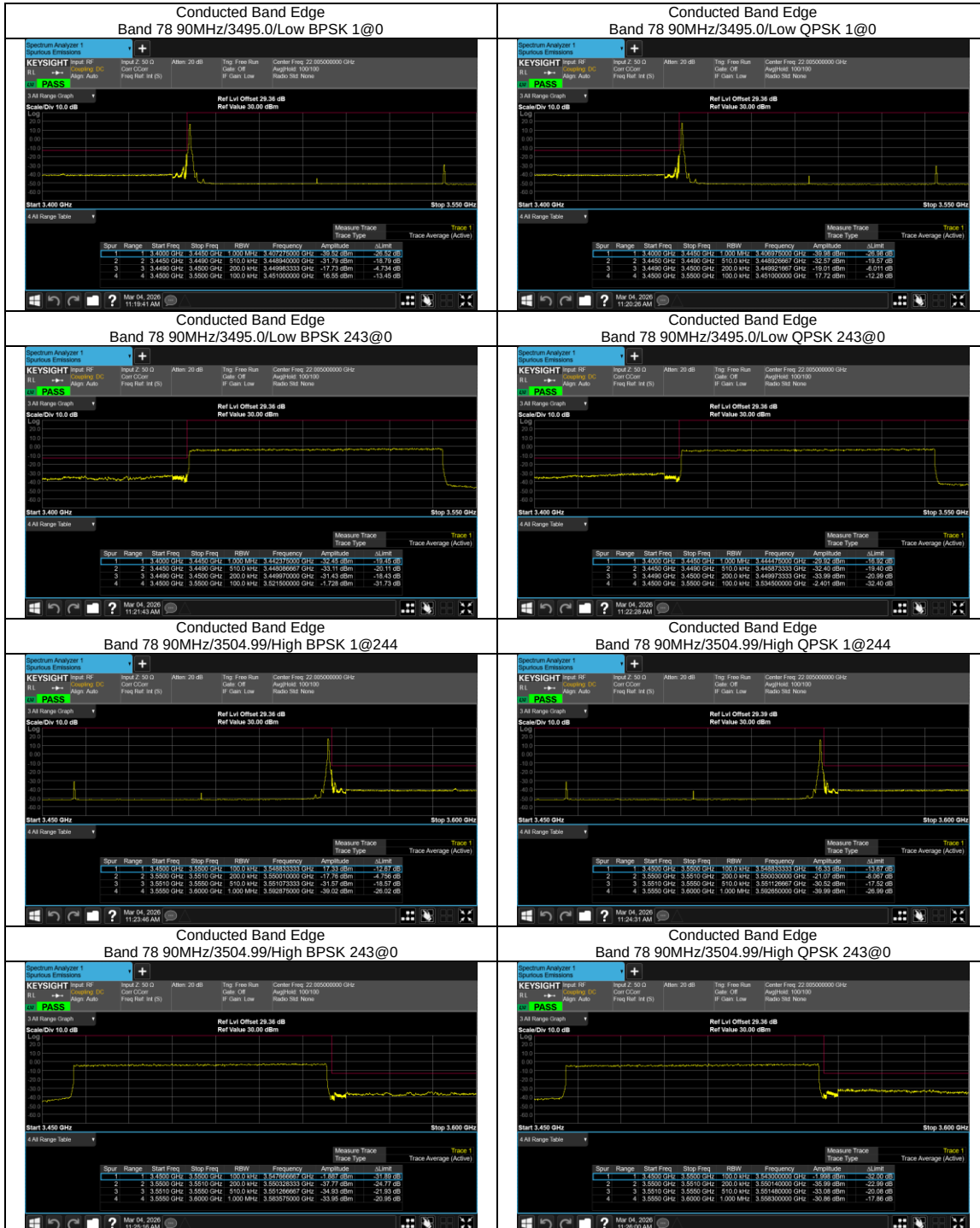
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	See graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	See graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	See graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	See graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	See graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	See graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	See graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@0	See graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	180@0	See graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	180@0	See graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	1@188	See graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@188	See graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	180@0	See graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	180@0	See graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@0	See graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	243@0	See graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	243@0	See graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	1@244	See graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@244	See graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	243@0	See graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	243@0	See graph	PASS



Test Graphs







FR1 N78 MIMO_ANT7+ANT5

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -0.4 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT7 Power(dBm)	ANT5 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	22.90	22.72	25.82	25.42	0.3484
78	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	22.03	22.23	25.14	24.74	0.2980
78	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	20.64	21.16	23.92	23.52	0.2248
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.50	22.10	25.31	24.91	0.3101
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	21.87	21.61	24.75	24.35	0.2724
78	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	20.35	20.07	23.22	22.82	0.1915
78	30	20	636000	3540	CP-OFDM QPSK	1@1	22.53	22.14	25.35	24.95	0.3126
78	30	20	636000	3540	CP-OFDM 16 QAM	1@1	22.02	21.81	24.93	24.53	0.2836
78	30	20	636000	3540	CP-OFDM 64 QAM	1@1	20.68	20.15	23.43	23.03	0.2011
78	30	30	631000	3465	CP-OFDM QPSK	1@1	22.57	22.78	25.69	25.29	0.3378
78	30	30	631000	3465	CP-OFDM 16 QAM	1@1	22.02	22.09	25.07	24.67	0.2928
78	30	30	631000	3465	CP-OFDM 64 QAM	1@1	20.70	20.62	23.67	23.27	0.2123
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	22.56	22.38	25.48	25.08	0.3222
78	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	22.00	21.50	24.77	24.37	0.2734
78	30	30	633334	3500.01	CP-OFDM 64 QAM	1@1	21.05	20.58	23.83	23.43	0.2204
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	22.72	22.25	25.50	25.10	0.3237
78	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	22.04	21.66	24.86	24.46	0.2795
78	30	30	635666	3534.99	CP-OFDM 64 QAM	1@1	20.79	20.70	23.76	23.36	0.2165
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	22.57	23.12	25.86	25.46	0.3519
78	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	21.97	22.23	25.11	24.71	0.2960
78	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	20.55	20.76	23.67	23.27	0.2122
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	22.81	22.08	25.47	25.07	0.3214
78	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	22.30	21.79	25.06	24.66	0.2926
78	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	20.60	20.08	23.36	22.96	0.1976
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	23.04	22.53	25.80	25.40	0.3470
78	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	22.00	22.20	25.11	24.71	0.2959



78	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	20.52	20.28	23.41	23.01	0.2001
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	22.40	22.50	25.46	25.06	0.3207
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	21.85	21.94	24.91	24.51	0.2822
78	30	50	631668	3475.02	CP-OFDM 64 QAM	1@1	20.30	20.55	23.44	23.04	0.2012
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	22.77	22.09	25.45	25.05	0.3202
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	22.24	21.60	24.94	24.54	0.2846
78	30	50	633334	3500.01	CP-OFDM 64 QAM	1@1	20.66	19.87	23.29	22.89	0.1947
78	30	50	635000	3525	CP-OFDM QPSK	1@1	22.46	22.11	25.30	24.90	0.3089
78	30	50	635000	3525	CP-OFDM 16 QAM	1@1	21.63	21.61	24.63	24.23	0.2649
78	30	50	635000	3525	CP-OFDM 64 QAM	1@1	20.55	20.09	23.34	22.94	0.1966
78	30	60	632000	3480	CP-OFDM QPSK	1@1	22.44	22.63	25.55	25.15	0.3271
78	30	60	632000	3480	CP-OFDM 16 QAM	1@1	21.79	22.22	25.02	24.62	0.2898
78	30	60	632000	3480	CP-OFDM 64 QAM	1@1	20.45	20.55	23.51	23.11	0.2047
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	22.55	22.25	25.41	25.01	0.3172
78	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	22.08	21.53	24.82	24.42	0.2769
78	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	20.70	20.55	23.64	23.24	0.2107
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	22.25	22.09	25.18	24.78	0.3007
78	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	22.02	21.48	24.77	24.37	0.2734
78	30	60	634666	3519.99	CP-OFDM 64 QAM	1@1	20.37	20.05	23.22	22.82	0.1916
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	22.48	22.69	25.60	25.20	0.3309
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	22.16	22.35	25.27	24.87	0.3066
78	30	70	632334	3485.01	CP-OFDM 64 QAM	1@1	20.55	20.61	23.59	23.19	0.2085
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	22.80	22.54	25.68	25.28	0.3375
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	21.96	21.87	24.93	24.53	0.2835
78	30	70	633334	3500.01	CP-OFDM 64 QAM	1@1	20.57	20.66	23.63	23.23	0.2102
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	22.64	22.02	25.35	24.95	0.3127
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	21.96	21.66	24.82	24.42	0.2769
78	30	70	634332	3514.98	CP-OFDM 64 QAM	1@1	20.57	19.96	23.29	22.89	0.1944
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	22.38	22.58	25.49	25.09	0.3230
78	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	21.81	22.06	24.95	24.55	0.2849
78	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	20.51	20.60	23.57	23.17	0.2073



					QAM							
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	22.44	22.53	25.50	25.10	0.3233	
78	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	21.78	22.01	24.91	24.51	0.2823	
78	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	20.48	20.86	23.68	23.28	0.2130	
78	30	80	634000	3510	CP-OFDM QPSK	1@1	22.70	22.14	25.44	25.04	0.3191	
78	30	80	634000	3510	CP-OFDM 16 QAM	1@1	22.24	21.45	24.87	24.47	0.2801	
78	30	80	634000	3510	CP-OFDM 64 QAM	1@1	20.73	20.08	23.43	23.03	0.2008	
78	30	90	633000	3495	CP-OFDM QPSK	1@1	22.29	22.55	25.43	25.03	0.3186	
78	30	90	633000	3495	CP-OFDM 16 QAM	1@1	21.72	22.03	24.89	24.49	0.2811	
78	30	90	633000	3495	CP-OFDM 64 QAM	1@1	20.49	20.70	23.61	23.21	0.2092	
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	22.33	22.62	25.49	25.09	0.3227	
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	21.67	21.99	24.84	24.44	0.2782	
78	30	90	633334	3500.01	CP-OFDM 64 QAM	1@1	20.36	20.55	23.47	23.07	0.2026	
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	22.43	22.56	25.51	25.11	0.3240	
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	21.77	21.94	24.87	24.47	0.2796	
78	30	90	633666	3504.99	CP-OFDM 64 QAM	1@1	20.55	20.57	23.57	23.17	0.2075	
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	22.34	22.54	25.45	25.05	0.3200	
78	30	100	633334	3500.01	CP-OFDM QPSK	1@0	20.15	20.38	23.28	22.88	0.1939	
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.93	21.78	24.87	24.47	0.2796	
78	30	100	633334	3500.01	CP-OFDM QPSK	2@0	20.17	20.38	23.29	22.89	0.1944	
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	22.39	22.06	25.24	24.84	0.3047	
78	30	100	633334	3500.01	CP-OFDM QPSK	2@271	19.79	19.61	22.71	22.31	0.1703	
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	20.65	20.43	23.55	23.15	0.2066	
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	21.70	21.89	24.81	24.41	0.2758	
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	20.26	20.55	23.42	23.02	0.2003	
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	17.54	17.76	20.66	20.26	0.1062	
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	20.75	20.43	23.60	23.20	0.2091	
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	20.72	20.43	23.59	23.19	0.2083	
78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	20.18	19.93	23.07	22.67	0.1848	
78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	17.62	17.23	20.44	20.04	0.1009	

**FR1 N78 MIMO_ANT5****Frequency Stability**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0015	PASS	NV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0012	PASS	LV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0009	PASS	HV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0000	PASS	-30°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0011	PASS	-20°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0018	PASS	-10°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0016	PASS	0°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0013	PASS	10°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0019	PASS	20°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0015	PASS	30°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0014	PASS	40°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0016	PASS	50°C



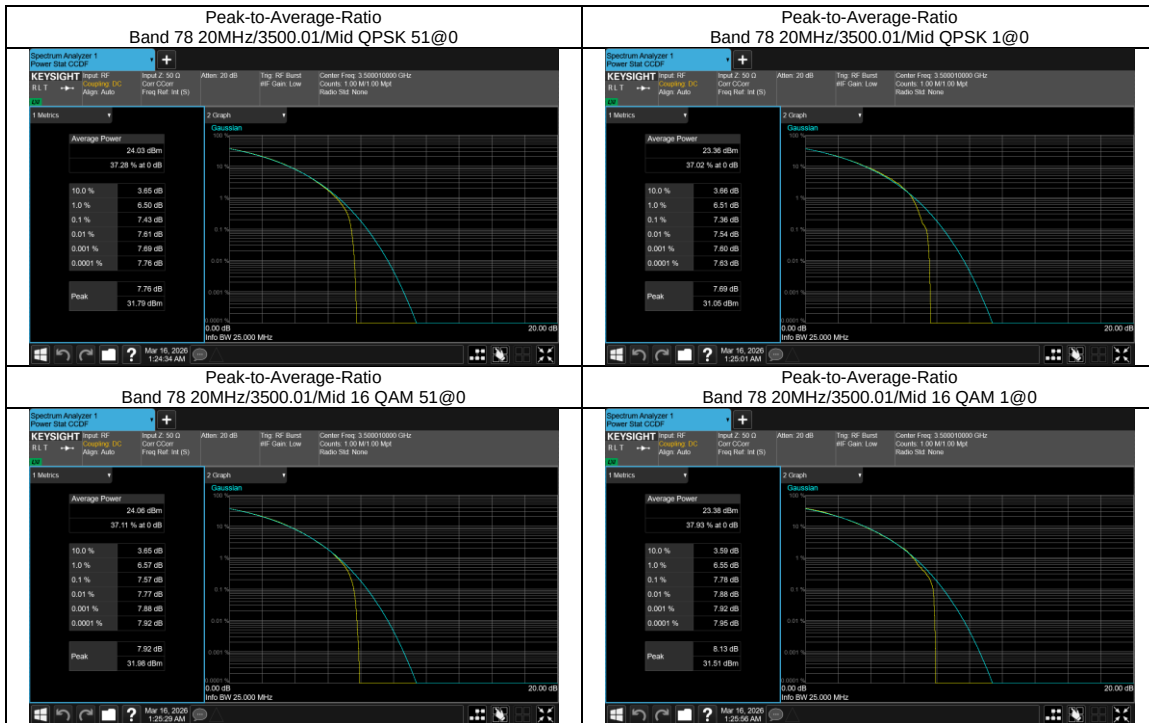
Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	7.43	13
78	30	20	633334	3500.01	CP-OFDM QPSK	1@0	7.36	13
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	7.57	13
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	7.78	13



Test Graphs





Occupied Bandwidth

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.49	49.96
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.4	49.71
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.53	69.76
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.42	69.79
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.33	90.0
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.25	90.12