

**Appendix
for
n78A
(3700-3800)**

Catalogue

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1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant3 (Antenna Gain=-3.00dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max EIRP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
30KHz	20MHz	LCH	DFT-Pi2BPSK	26.17	26.10	26.20	23.20	30.00	Pass
30KHz	20MHz	LCH	DFT-QPSK	26.24	26.23	26.20	23.24	30.00	Pass
30KHz	20MHz	LCH	DFT-16QAM	25.26	25.25	25.32	22.32	30.00	Pass
30KHz	20MHz	LCH	DFT-64QAM	23.75	23.72	23.78	20.78	30.00	Pass
30KHz	20MHz	LCH	DFT-256QAM	21.75	21.72	21.70	18.75	30.00	Pass
30KHz	20MHz	LCH	CP-QPSK	24.75	24.76	24.77	21.77	30.00	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	26.32	26.29	26.33	23.33	30.00	Pass
30KHz	20MHz	MCH	DFT-QPSK	26.39	26.30	26.30	23.39	30.00	Pass
30KHz	20MHz	MCH	DFT-16QAM	25.58	25.57	25.47	22.58	30.00	Pass
30KHz	20MHz	MCH	DFT-64QAM	23.89	23.86	23.96	20.96	30.00	Pass
30KHz	20MHz	MCH	DFT-256QAM	21.98	21.93	21.88	18.98	30.00	Pass
30KHz	20MHz	MCH	CP-QPSK	25.00	24.95	24.83	22.00	30.00	Pass
30KHz	20MHz	HCH	DFT-Pi2BPSK	26.46	26.46	26.41	23.46	30.00	Pass
30KHz	20MHz	HCH	DFT-QPSK	26.34	26.42	26.40	23.42	30.00	Pass
30KHz	20MHz	HCH	DFT-16QAM	25.60	25.53	25.52	22.60	30.00	Pass
30KHz	20MHz	HCH	DFT-64QAM	23.97	23.95	24.02	21.02	30.00	Pass
30KHz	20MHz	HCH	DFT-256QAM	22.02	21.99	21.95	19.02	30.00	Pass
30KHz	20MHz	HCH	CP-QPSK	25.14	25.04	25.04	22.14	30.00	Pass
30KHz	30MHz	LCH	DFT-Pi2BPSK	26.27	26.28	26.31	23.31	30.00	Pass
30KHz	30MHz	LCH	DFT-QPSK	26.23	26.28	26.31	23.31	30.00	Pass
30KHz	30MHz	LCH	DFT-16QAM	25.32	25.40	25.43	22.43	30.00	Pass
30KHz	30MHz	LCH	DFT-64QAM	23.90	23.78	23.91	20.91	30.00	Pass
30KHz	30MHz	LCH	DFT-256QAM	21.92	22.01	21.92	19.01	30.00	Pass
30KHz	30MHz	LCH	CP-QPSK	24.83	24.86	24.87	21.87	30.00	Pass
30KHz	30MHz	MCH	DFT-Pi2BPSK	26.30	26.37	26.36	23.37	30.00	Pass
30KHz	30MHz	MCH	DFT-QPSK	26.36	26.45	26.36	23.45	30.00	Pass
30KHz	30MHz	MCH	DFT-16QAM	25.48	25.54	25.43	22.54	30.00	Pass
30KHz	30MHz	MCH	DFT-64QAM	23.81	24.03	23.91	21.03	30.00	Pass
30KHz	30MHz	MCH	DFT-256QAM	22.01	22.08	21.93	19.08	30.00	Pass
30KHz	30MHz	MCH	CP-QPSK	24.88	25.03	24.95	22.03	30.00	Pass
30KHz	30MHz	HCH	DFT-Pi2BPSK	26.48	26.64	26.43	23.64	30.00	Pass
30KHz	30MHz	HCH	DFT-QPSK	26.38	26.68	26.48	23.68	30.00	Pass
30KHz	30MHz	HCH	DFT-16QAM	25.43	25.77	25.49	22.77	30.00	Pass
30KHz	30MHz	HCH	DFT-64QAM	23.91	24.21	24.01	21.21	30.00	Pass
30KHz	30MHz	HCH	DFT-256QAM	21.99	22.08	22.14	19.14	30.00	Pass
30KHz	30MHz	HCH	CP-QPSK	24.98	25.17	25.24	22.24	30.00	Pass
30KHz	40MHz	LCH	DFT-Pi2BPSK	26.31	26.57	26.29	23.57	30.00	Pass
30KHz	40MHz	LCH	DFT-QPSK	26.32	26.45	26.25	23.45	30.00	Pass
30KHz	40MHz	LCH	DFT-16QAM	25.50	25.67	25.38	22.67	30.00	Pass
30KHz	40MHz	LCH	DFT-64QAM	23.92	24.02	23.87	21.02	30.00	Pass
30KHz	40MHz	LCH	DFT-256QAM	21.98	22.14	21.96	19.14	30.00	Pass
30KHz	40MHz	LCH	CP-QPSK	24.97	25.11	24.88	22.11	30.00	Pass
30KHz	40MHz	MCH	DFT-Pi2BPSK	26.41	26.62	26.45	23.62	30.00	Pass
30KHz	40MHz	MCH	DFT-QPSK	26.37	26.61	26.39	23.61	30.00	Pass
30KHz	40MHz	MCH	DFT-16QAM	25.64	25.88	25.53	22.88	30.00	Pass
30KHz	40MHz	MCH	DFT-64QAM	23.91	24.15	24.03	21.15	30.00	Pass
30KHz	40MHz	MCH	DFT-256QAM	22.03	22.21	22.01	19.21	30.00	Pass
30KHz	40MHz	MCH	CP-QPSK	25.02	25.19	25.02	22.19	30.00	Pass
30KHz	40MHz	HCH	DFT-Pi2BPSK	26.53	26.78	26.44	23.78	30.00	Pass
30KHz	40MHz	HCH	DFT-QPSK	26.30	26.77	26.51	23.77	30.00	Pass
30KHz	40MHz	HCH	DFT-16QAM	25.49	25.88	25.59	22.88	30.00	Pass
30KHz	40MHz	HCH	DFT-64QAM	23.93	24.26	24.03	21.26	30.00	Pass
30KHz	40MHz	HCH	DFT-256QAM	21.98	22.26	22.00	19.26	30.00	Pass
30KHz	40MHz	HCH	CP-QPSK	25.03	25.43	25.10	22.43	30.00	Pass
30KHz	50MHz	LCH	DFT-Pi2BPSK	25.94	26.20	26.08	23.20	30.00	Pass
30KHz	50MHz	LCH	DFT-QPSK	25.94	26.14	26.10	23.14	30.00	Pass
30KHz	50MHz	LCH	DFT-16QAM	25.16	25.30	25.23	22.30	30.00	Pass
30KHz	50MHz	LCH	DFT-64QAM	23.58	23.74	23.81	20.81	30.00	Pass

30KHz	50MHz	LCH	DFT-256QAM	21.62	21.84	21.73	18.84	30.00	Pass
30KHz	50MHz	LCH	CP-QPSK	24.73	24.80	24.71	21.80	30.00	Pass
30KHz	50MHz	MCH	DFT-Pi2BPSK	26.01	26.25	26.21	23.25	30.00	Pass
30KHz	50MHz	MCH	DFT-QPSK	25.95	26.20	26.13	23.20	30.00	Pass
30KHz	50MHz	MCH	DFT-16QAM	25.11	25.30	25.33	22.33	30.00	Pass
30KHz	50MHz	MCH	DFT-64QAM	23.53	23.70	23.81	20.81	30.00	Pass
30KHz	50MHz	MCH	DFT-256QAM	21.66	21.88	21.73	18.88	30.00	Pass
30KHz	50MHz	MCH	CP-QPSK	24.56	24.77	24.76	21.77	30.00	Pass
30KHz	50MHz	HCH	DFT-Pi2BPSK	26.02	26.25	26.18	23.25	30.00	Pass
30KHz	50MHz	HCH	DFT-QPSK	25.99	26.26	26.23	23.26	30.00	Pass
30KHz	50MHz	HCH	DFT-16QAM	25.11	25.51	25.23	22.51	30.00	Pass
30KHz	50MHz	HCH	DFT-64QAM	23.54	23.84	23.80	20.84	30.00	Pass
30KHz	50MHz	HCH	DFT-256QAM	21.71	22.02	21.80	19.02	30.00	Pass
30KHz	50MHz	HCH	CP-QPSK	24.62	24.85	24.77	21.85	30.00	Pass
30KHz	60MHz	LCH	DFT-Pi2BPSK	25.86	26.18	26.12	23.18	30.00	Pass
30KHz	60MHz	LCH	DFT-QPSK	25.98	26.27	26.17	23.27	30.00	Pass
30KHz	60MHz	LCH	DFT-16QAM	25.05	25.35	25.23	22.35	30.00	Pass
30KHz	60MHz	LCH	DFT-64QAM	23.41	23.77	23.71	20.77	30.00	Pass
30KHz	60MHz	LCH	DFT-256QAM	21.56	21.88	21.71	18.88	30.00	Pass
30KHz	60MHz	LCH	CP-QPSK	24.62	24.90	24.82	21.90	30.00	Pass
30KHz	60MHz	MCH	DFT-Pi2BPSK	25.95	26.37	26.15	23.37	30.00	Pass
30KHz	60MHz	MCH	DFT-QPSK	26.11	26.39	26.24	23.39	30.00	Pass
30KHz	60MHz	MCH	DFT-16QAM	25.03	25.42	25.27	22.42	30.00	Pass
30KHz	60MHz	MCH	DFT-64QAM	23.51	23.85	23.74	20.85	30.00	Pass
30KHz	60MHz	MCH	DFT-256QAM	21.64	21.97	21.87	18.97	30.00	Pass
30KHz	60MHz	MCH	CP-QPSK	24.58	24.97	24.84	21.97	30.00	Pass
30KHz	60MHz	HCH	DFT-Pi2BPSK	25.95	26.41	26.24	23.41	30.00	Pass
30KHz	60MHz	HCH	DFT-QPSK	25.94	26.42	26.23	23.42	30.00	Pass
30KHz	60MHz	HCH	DFT-16QAM	25.14	25.45	25.29	22.45	30.00	Pass
30KHz	60MHz	HCH	DFT-64QAM	23.55	24.00	23.87	21.00	30.00	Pass
30KHz	60MHz	HCH	DFT-256QAM	21.65	22.12	21.78	19.12	30.00	Pass
30KHz	60MHz	HCH	CP-QPSK	24.65	25.06	24.90	22.06	30.00	Pass
30KHz	70MHz	LCH	DFT-Pi2BPSK	25.90	26.05	26.02	23.05	30.00	Pass
30KHz	70MHz	LCH	DFT-QPSK	25.84	26.09	26.02	23.09	30.00	Pass
30KHz	70MHz	LCH	DFT-16QAM	24.99	25.37	25.11	22.37	30.00	Pass
30KHz	70MHz	LCH	DFT-64QAM	23.36	23.60	23.61	20.61	30.00	Pass
30KHz	70MHz	LCH	DFT-256QAM	21.48	21.74	21.61	18.74	30.00	Pass
30KHz	70MHz	LCH	CP-QPSK	24.37	24.77	24.67	21.77	30.00	Pass
30KHz	70MHz	MCH	DFT-Pi2BPSK	25.97	26.32	26.07	23.32	30.00	Pass
30KHz	70MHz	MCH	DFT-QPSK	25.93	26.21	26.03	23.21	30.00	Pass
30KHz	70MHz	MCH	DFT-16QAM	25.04	25.41	25.09	22.41	30.00	Pass
30KHz	70MHz	MCH	DFT-64QAM	23.39	23.89	23.60	20.89	30.00	Pass
30KHz	70MHz	MCH	DFT-256QAM	21.48	21.86	21.63	18.86	30.00	Pass
30KHz	70MHz	MCH	CP-QPSK	24.50	24.94	24.69	21.94	30.00	Pass
30KHz	70MHz	HCH	DFT-Pi2BPSK	25.95	26.37	26.18	23.37	30.00	Pass
30KHz	70MHz	HCH	DFT-QPSK	25.98	26.30	26.15	23.30	30.00	Pass
30KHz	70MHz	HCH	DFT-16QAM	24.94	25.48	25.24	22.48	30.00	Pass
30KHz	70MHz	HCH	DFT-64QAM	23.39	23.86	23.62	20.86	30.00	Pass
30KHz	70MHz	HCH	DFT-256QAM	21.49	21.94	21.82	18.94	30.00	Pass
30KHz	70MHz	HCH	CP-QPSK	24.50	25.04	24.71	22.04	30.00	Pass
30KHz	80MHz	LCH	DFT-Pi2BPSK	25.74	26.28	25.98	23.28	30.00	Pass
30KHz	80MHz	LCH	DFT-QPSK	25.89	26.24	26.00	23.24	30.00	Pass
30KHz	80MHz	LCH	DFT-16QAM	25.03	25.54	25.14	22.54	30.00	Pass
30KHz	80MHz	LCH	DFT-64QAM	23.39	23.94	23.59	20.94	30.00	Pass
30KHz	80MHz	LCH	DFT-256QAM	21.43	22.00	21.58	19.00	30.00	Pass
30KHz	80MHz	LCH	CP-QPSK	24.43	24.96	24.69	21.96	30.00	Pass
30KHz	80MHz	MCH	DFT-Pi2BPSK	25.88	26.34	26.08	23.34	30.00	Pass
30KHz	80MHz	MCH	DFT-QPSK	25.90	26.45	26.02	23.45	30.00	Pass
30KHz	80MHz	MCH	DFT-16QAM	25.12	25.63	25.15	22.63	30.00	Pass
30KHz	80MHz	MCH	DFT-64QAM	23.50	24.04	23.67	21.04	30.00	Pass
30KHz	80MHz	MCH	DFT-256QAM	21.42	22.03	21.59	19.03	30.00	Pass
30KHz	80MHz	MCH	CP-QPSK	24.46	25.09	24.67	22.09	30.00	Pass

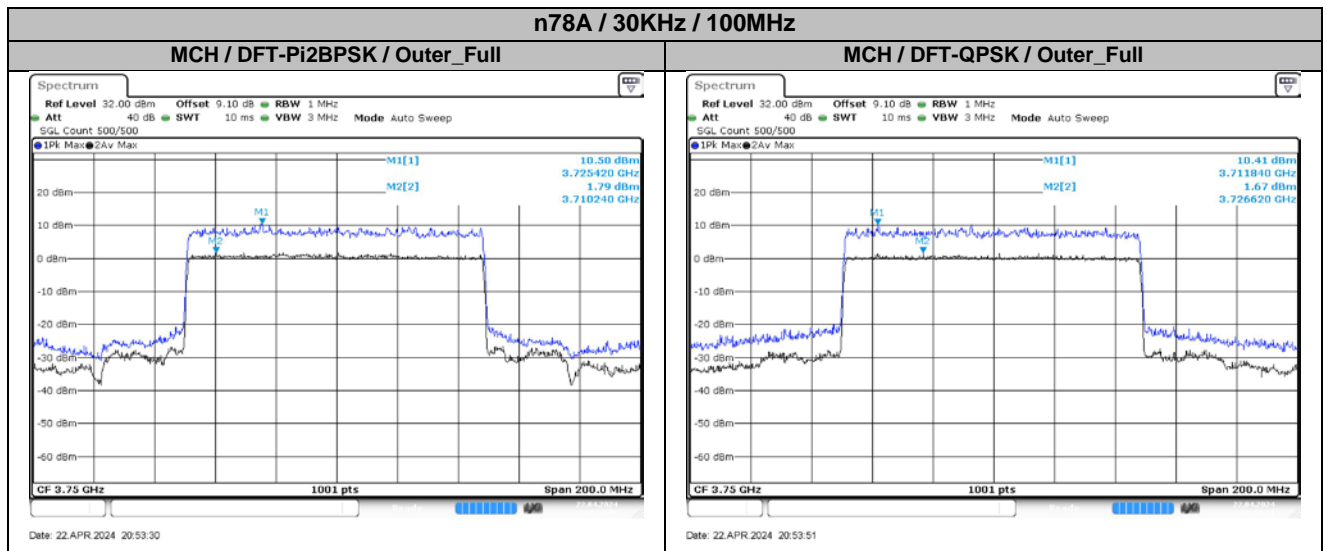
30KHz	80MHz	HCH	DFT-Pi2BPSK	25.74	26.38	26.00	23.38	30.00	Pass
30KHz	80MHz	HCH	DFT-QPSK	25.76	26.38	25.94	23.38	30.00	Pass
30KHz	80MHz	HCH	DFT-16QAM	24.98	25.55	25.15	22.55	30.00	Pass
30KHz	80MHz	HCH	DFT-64QAM	23.33	23.94	23.67	20.94	30.00	Pass
30KHz	80MHz	HCH	DFT-256QAM	21.47	21.96	21.62	18.96	30.00	Pass
30KHz	80MHz	HCH	CP-QPSK	24.38	24.97	24.67	21.97	30.00	Pass
30KHz	90MHz	LCH	DFT-Pi2BPSK	25.79	26.50	26.01	23.50	30.00	Pass
30KHz	90MHz	LCH	DFT-QPSK	25.78	26.52	26.08	23.52	30.00	Pass
30KHz	90MHz	LCH	DFT-16QAM	25.01	25.65	25.23	22.65	30.00	Pass
30KHz	90MHz	LCH	DFT-64QAM	23.43	24.12	23.60	21.12	30.00	Pass
30KHz	90MHz	LCH	DFT-256QAM	21.54	22.12	21.62	19.12	30.00	Pass
30KHz	90MHz	LCH	CP-QPSK	24.56	25.21	24.65	22.21	30.00	Pass
30KHz	90MHz	MCH	DFT-Pi2BPSK	25.81	26.51	26.14	23.51	30.00	Pass
30KHz	90MHz	MCH	DFT-QPSK	25.77	26.43	26.06	23.43	30.00	Pass
30KHz	90MHz	MCH	DFT-16QAM	25.01	25.66	25.16	22.66	30.00	Pass
30KHz	90MHz	MCH	DFT-64QAM	23.36	24.08	23.67	21.08	30.00	Pass
30KHz	90MHz	MCH	DFT-256QAM	21.54	22.19	21.67	19.19	30.00	Pass
30KHz	90MHz	MCH	CP-QPSK	24.51	25.05	24.67	22.05	30.00	Pass
30KHz	90MHz	HCH	DFT-Pi2BPSK	25.80	26.39	25.97	23.39	30.00	Pass
30KHz	90MHz	HCH	DFT-QPSK	25.90	26.34	26.04	23.34	30.00	Pass
30KHz	90MHz	HCH	DFT-16QAM	25.01	25.63	25.12	22.63	30.00	Pass
30KHz	90MHz	HCH	DFT-64QAM	23.39	24.09	23.67	21.09	30.00	Pass
30KHz	90MHz	HCH	DFT-256QAM	21.47	22.15	21.59	19.15	30.00	Pass
30KHz	90MHz	HCH	CP-QPSK	24.55	25.08	24.63	22.08	30.00	Pass
30KHz	100MHz	MCH	DFT-Pi2BPSK	25.82	26.55	25.98	23.55	30.00	Pass
30KHz	100MHz	MCH	DFT-QPSK	25.74	26.55	25.99	23.55	30.00	Pass
30KHz	100MHz	MCH	DFT-16QAM	24.99	25.69	25.15	22.69	30.00	Pass
30KHz	100MHz	MCH	DFT-64QAM	23.32	24.09	23.61	21.09	30.00	Pass
30KHz	100MHz	MCH	DFT-256QAM	21.43	22.06	21.62	19.06	30.00	Pass
30KHz	100MHz	MCH	CP-QPSK	24.36	25.16	24.64	22.16	30.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

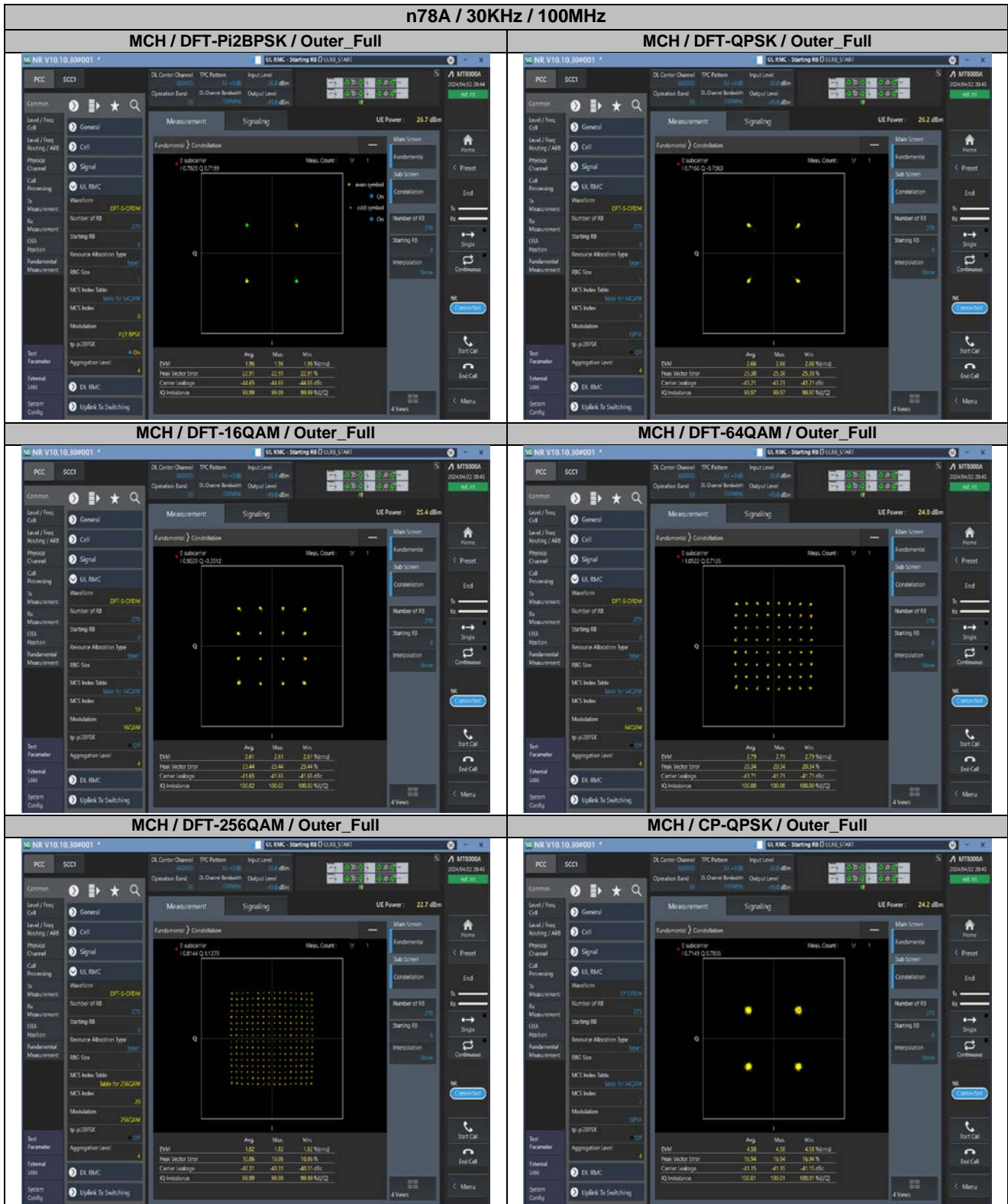
SCS	Bandwidth	Channel	Modulation	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
30KHz	100MHz	MCH	Outer_Full	8.71	8.73	13.00	Pass

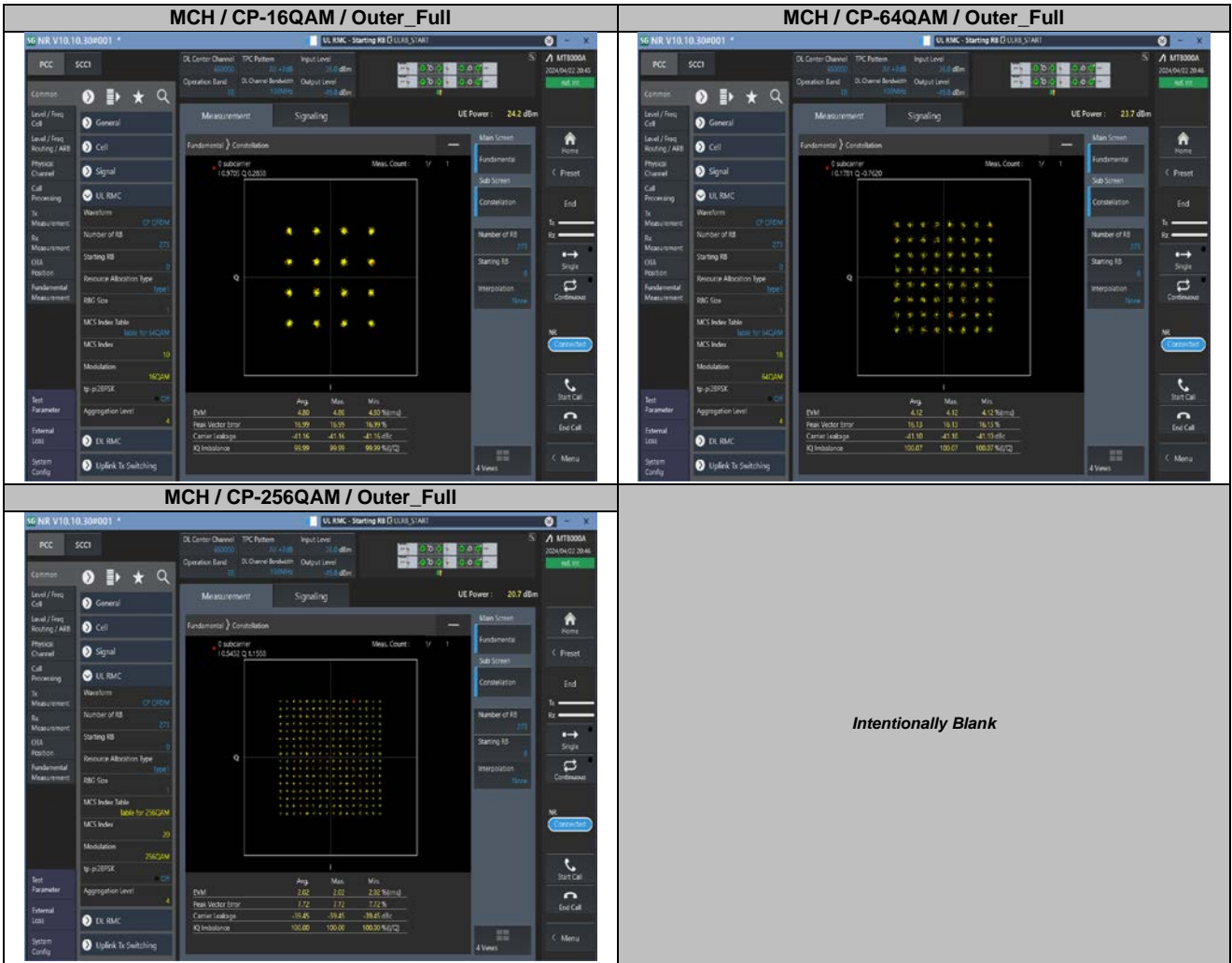
2.2. Test Plots



3. Modulation Characteristics

3.1. Test Plots



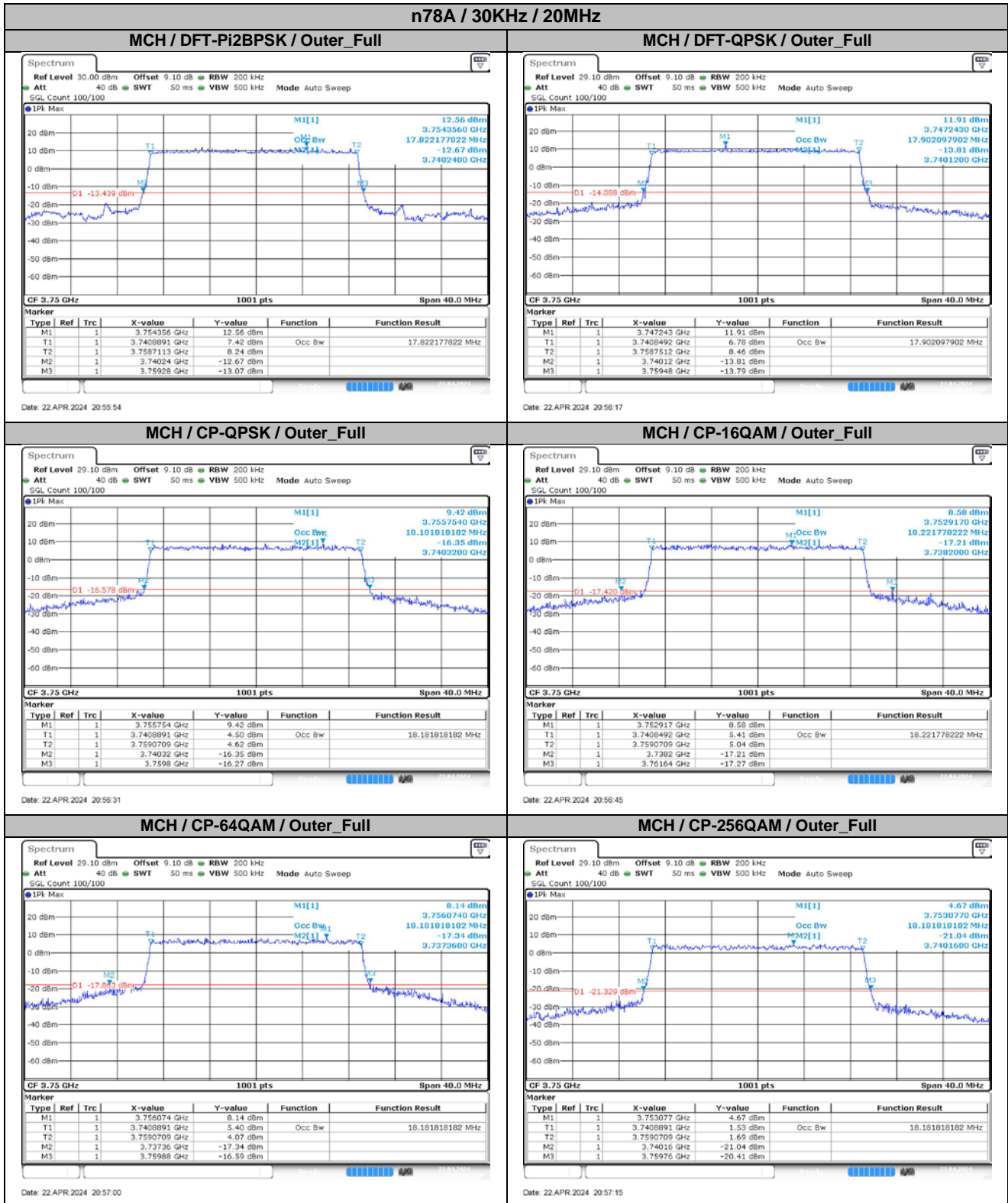


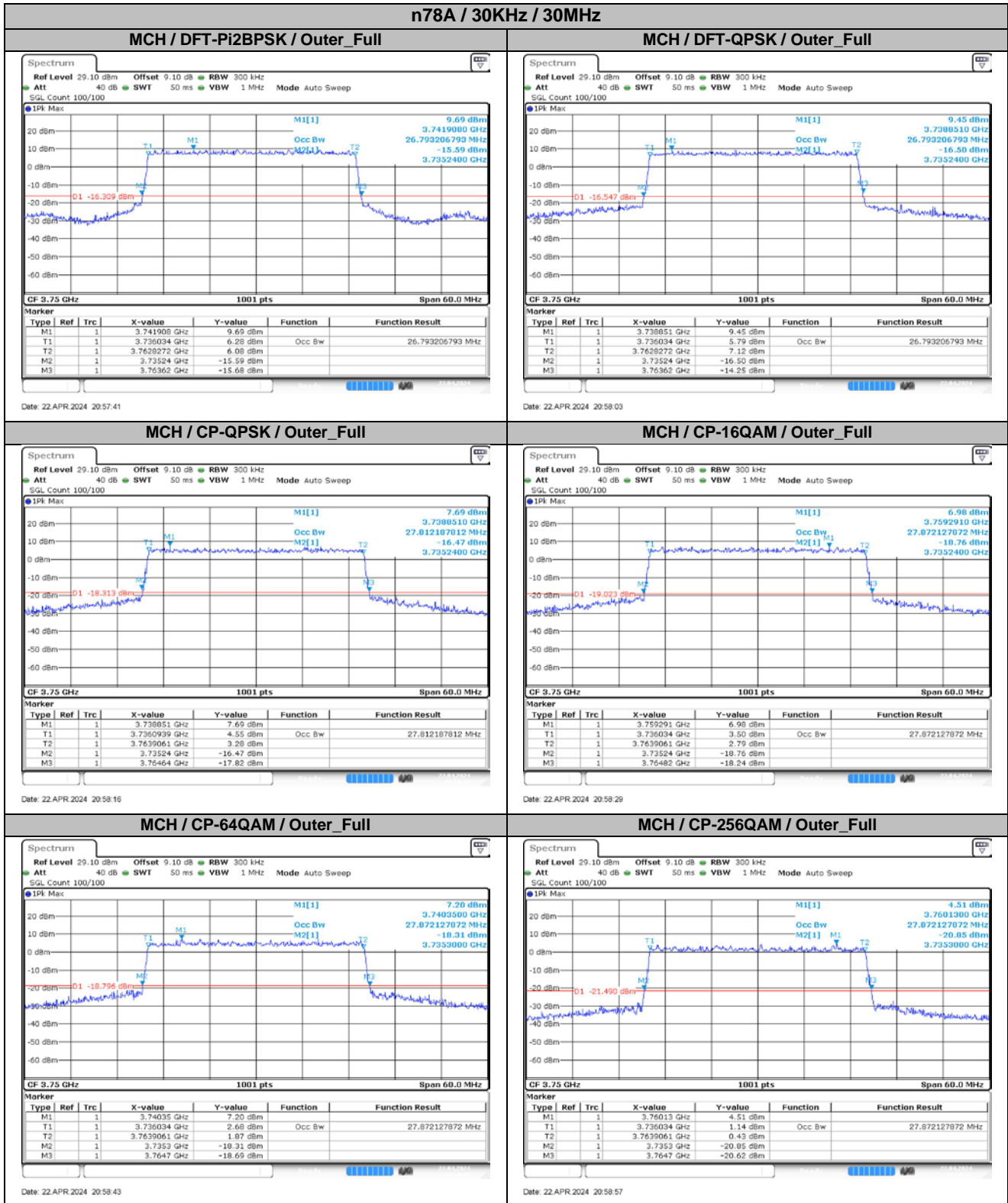
4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

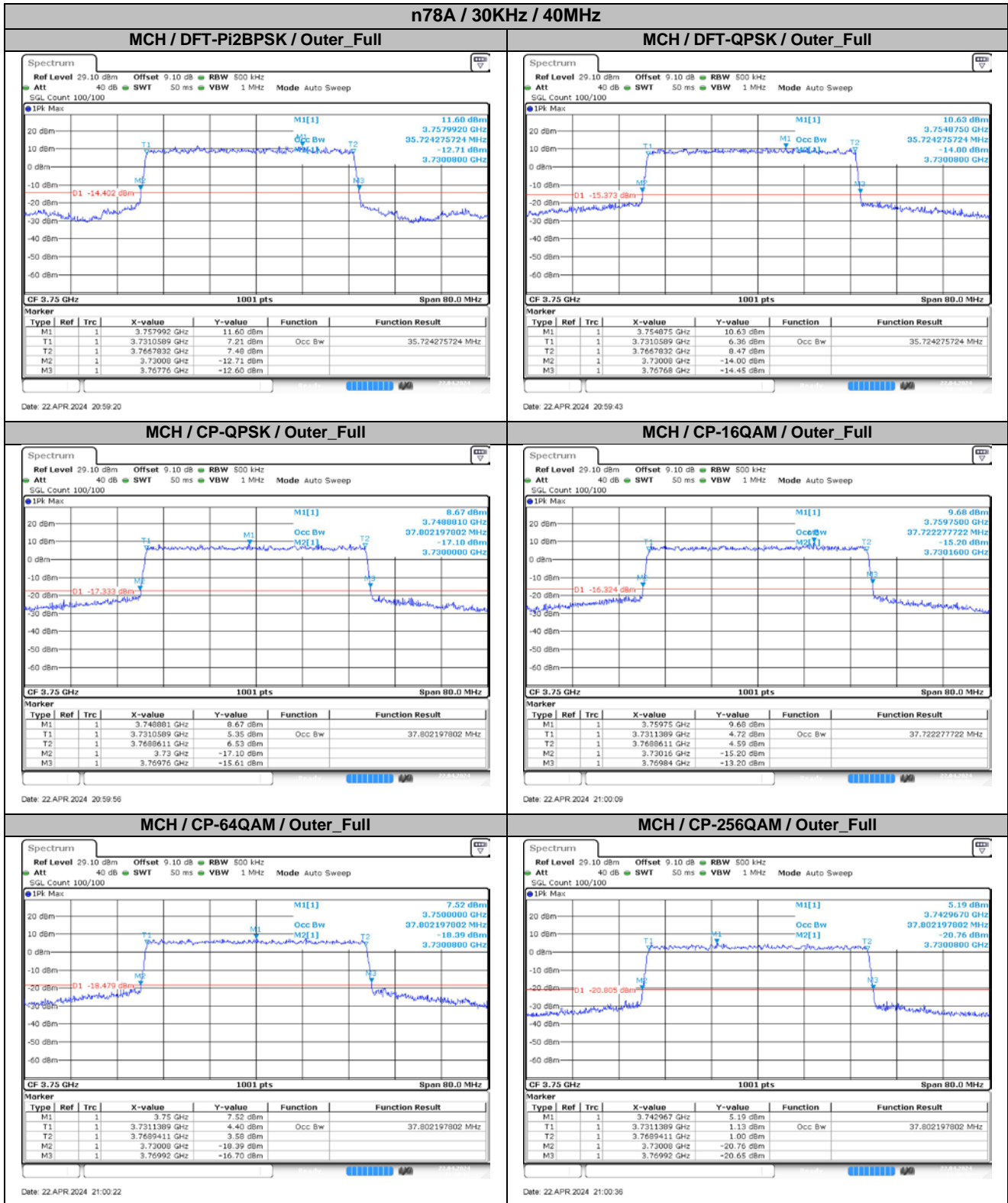
4.1. Test Results

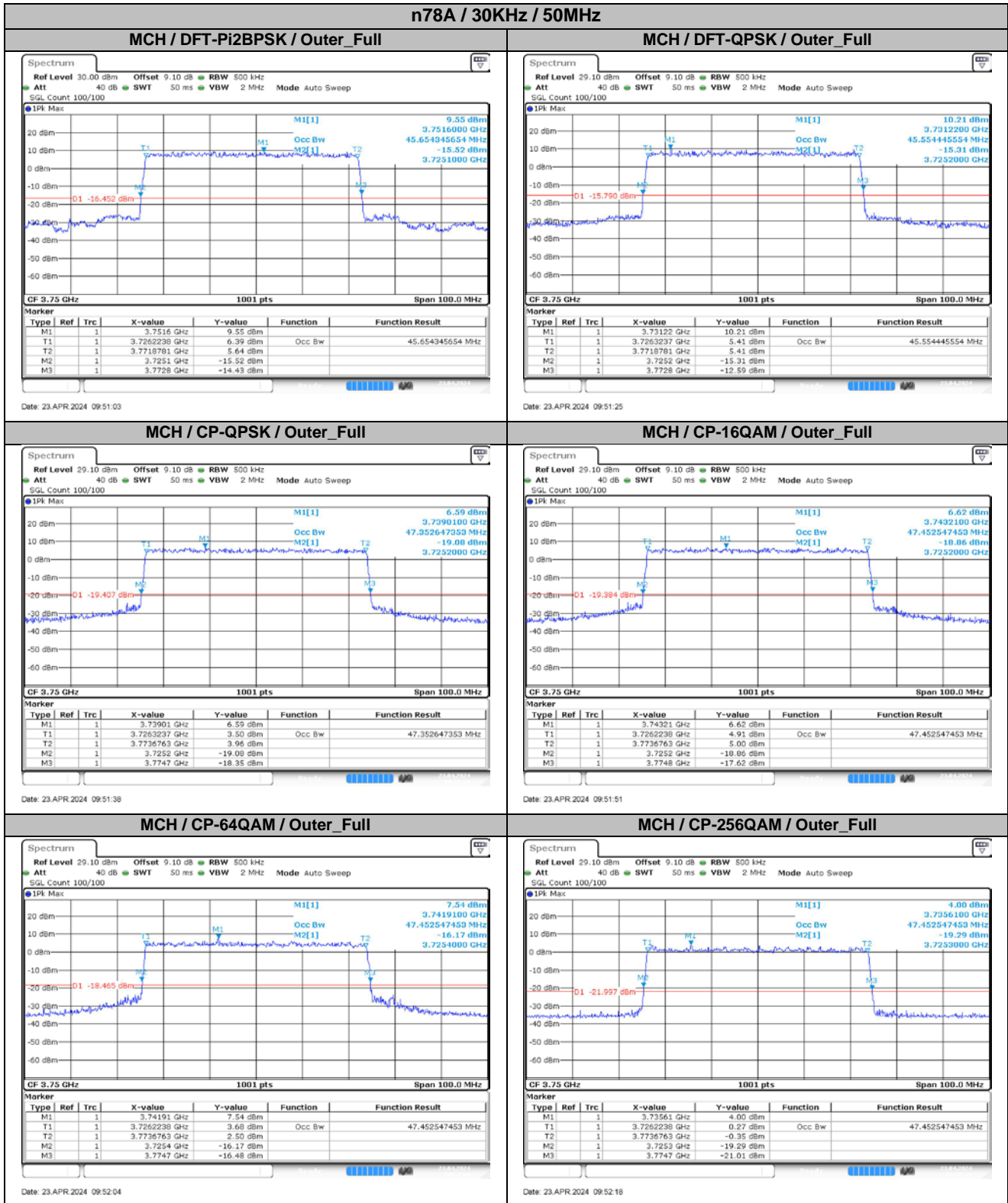
SCS	Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
30KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.82	19.04	Pass
30KHz	20MHz	DFT-QPSK	Outer_Full	17.90	19.36	Pass
30KHz	20MHz	CP-QPSK	Outer_Full	18.18	19.48	Pass
30KHz	20MHz	CP-16QAM	Outer_Full	18.22	23.44	Pass
30KHz	20MHz	CP-64QAM	Outer_Full	18.18	22.52	Pass
30KHz	20MHz	CP-256QAM	Outer_Full	18.18	19.60	Pass
30KHz	30MHz	DFT-Pi2BPSK	Outer_Full	26.79	28.38	Pass
30KHz	30MHz	DFT-QPSK	Outer_Full	26.79	28.38	Pass
30KHz	30MHz	CP-QPSK	Outer_Full	27.81	29.40	Pass
30KHz	30MHz	CP-16QAM	Outer_Full	27.87	29.58	Pass
30KHz	30MHz	CP-64QAM	Outer_Full	27.87	29.40	Pass
30KHz	30MHz	CP-256QAM	Outer_Full	27.87	29.40	Pass
30KHz	40MHz	DFT-Pi2BPSK	Outer_Full	35.72	37.68	Pass
30KHz	40MHz	DFT-QPSK	Outer_Full	35.72	37.60	Pass
30KHz	40MHz	CP-QPSK	Outer_Full	37.80	39.76	Pass
30KHz	40MHz	CP-16QAM	Outer_Full	37.72	39.68	Pass
30KHz	40MHz	CP-64QAM	Outer_Full	37.80	39.84	Pass
30KHz	40MHz	CP-256QAM	Outer_Full	37.80	39.84	Pass
30KHz	50MHz	DFT-Pi2BPSK	Outer_Full	45.65	47.70	Pass
30KHz	50MHz	DFT-QPSK	Outer_Full	45.55	47.60	Pass
30KHz	50MHz	CP-QPSK	Outer_Full	47.35	49.50	Pass
30KHz	50MHz	CP-16QAM	Outer_Full	47.45	49.60	Pass
30KHz	50MHz	CP-64QAM	Outer_Full	47.45	49.30	Pass
30KHz	50MHz	CP-256QAM	Outer_Full	47.45	49.40	Pass
30KHz	60MHz	DFT-Pi2BPSK	Outer_Full	57.78	60.00	Pass
30KHz	60MHz	DFT-QPSK	Outer_Full	57.66	59.88	Pass
30KHz	60MHz	CP-QPSK	Outer_Full	57.66	59.88	Pass
30KHz	60MHz	CP-16QAM	Outer_Full	57.78	60.00	Pass
30KHz	60MHz	CP-64QAM	Outer_Full	57.78	60.00	Pass
30KHz	60MHz	CP-256QAM	Outer_Full	57.54	59.76	Pass
30KHz	70MHz	DFT-Pi2BPSK	Outer_Full	64.20	66.36	Pass
30KHz	70MHz	DFT-QPSK	Outer_Full	64.20	66.50	Pass
30KHz	70MHz	CP-QPSK	Outer_Full	67.55	69.72	Pass
30KHz	70MHz	CP-16QAM	Outer_Full	67.55	69.58	Pass
30KHz	70MHz	CP-64QAM	Outer_Full	67.41	69.72	Pass
30KHz	70MHz	CP-256QAM	Outer_Full	67.41	69.58	Pass
30KHz	80MHz	DFT-Pi2BPSK	Outer_Full	77.04	80.16	Pass
30KHz	80MHz	DFT-QPSK	Outer_Full	77.04	80.16	Pass
30KHz	80MHz	CP-QPSK	Outer_Full	77.36	80.48	Pass
30KHz	80MHz	CP-16QAM	Outer_Full	77.52	80.48	Pass
30KHz	80MHz	CP-64QAM	Outer_Full	77.52	80.32	Pass
30KHz	80MHz	CP-256QAM	Outer_Full	77.36	80.64	Pass
30KHz	90MHz	DFT-Pi2BPSK	Outer_Full	86.85	89.82	Pass
30KHz	90MHz	DFT-QPSK	Outer_Full	86.49	90.00	Pass
30KHz	90MHz	CP-QPSK	Outer_Full	87.39	90.72	Pass
30KHz	90MHz	CP-16QAM	Outer_Full	87.39	90.54	Pass
30KHz	90MHz	CP-64QAM	Outer_Full	87.39	90.72	Pass
30KHz	90MHz	CP-256QAM	Outer_Full	87.57	90.54	Pass
30KHz	100MHz	DFT-Pi2BPSK	Outer_Full	96.30	99.40	Pass
30KHz	100MHz	DFT-QPSK	Outer_Full	96.30	99.40	Pass
30KHz	100MHz	CP-QPSK	Outer_Full	97.30	100.80	Pass
30KHz	100MHz	CP-16QAM	Outer_Full	97.30	100.80	Pass
30KHz	100MHz	CP-64QAM	Outer_Full	97.50	100.60	Pass
30KHz	100MHz	CP-256QAM	Outer_Full	97.30	100.80	Pass

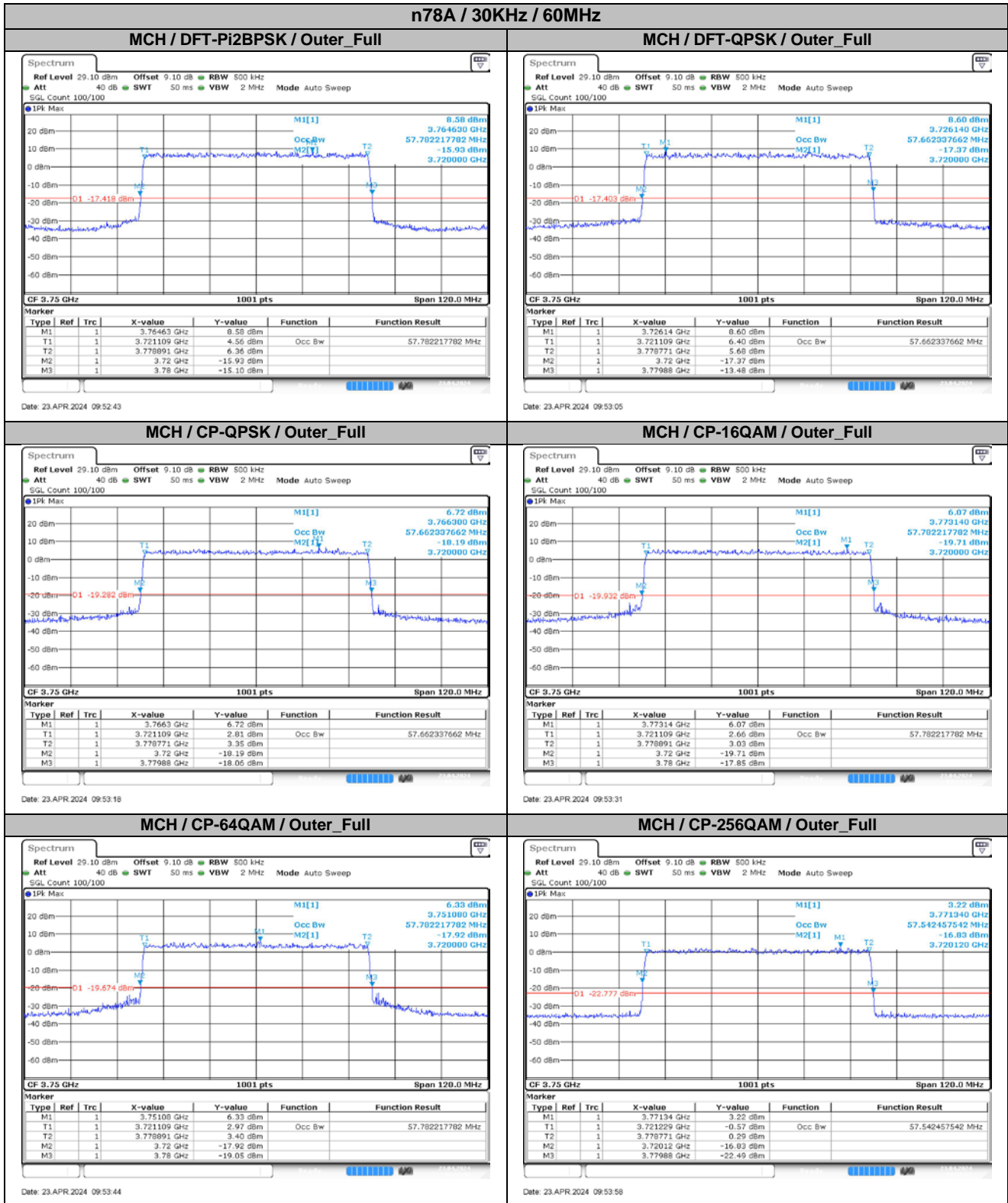
4.2. Test Plots

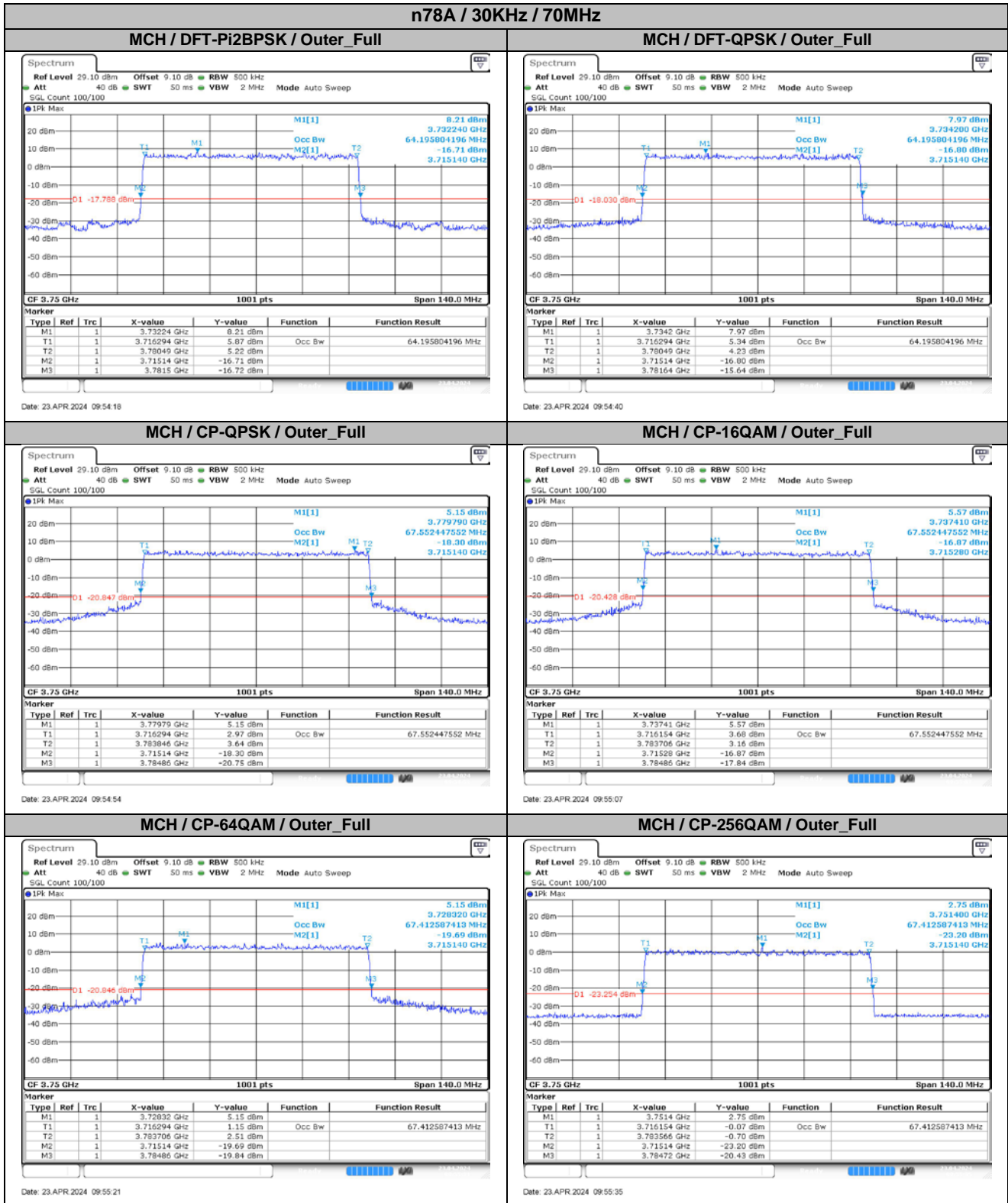


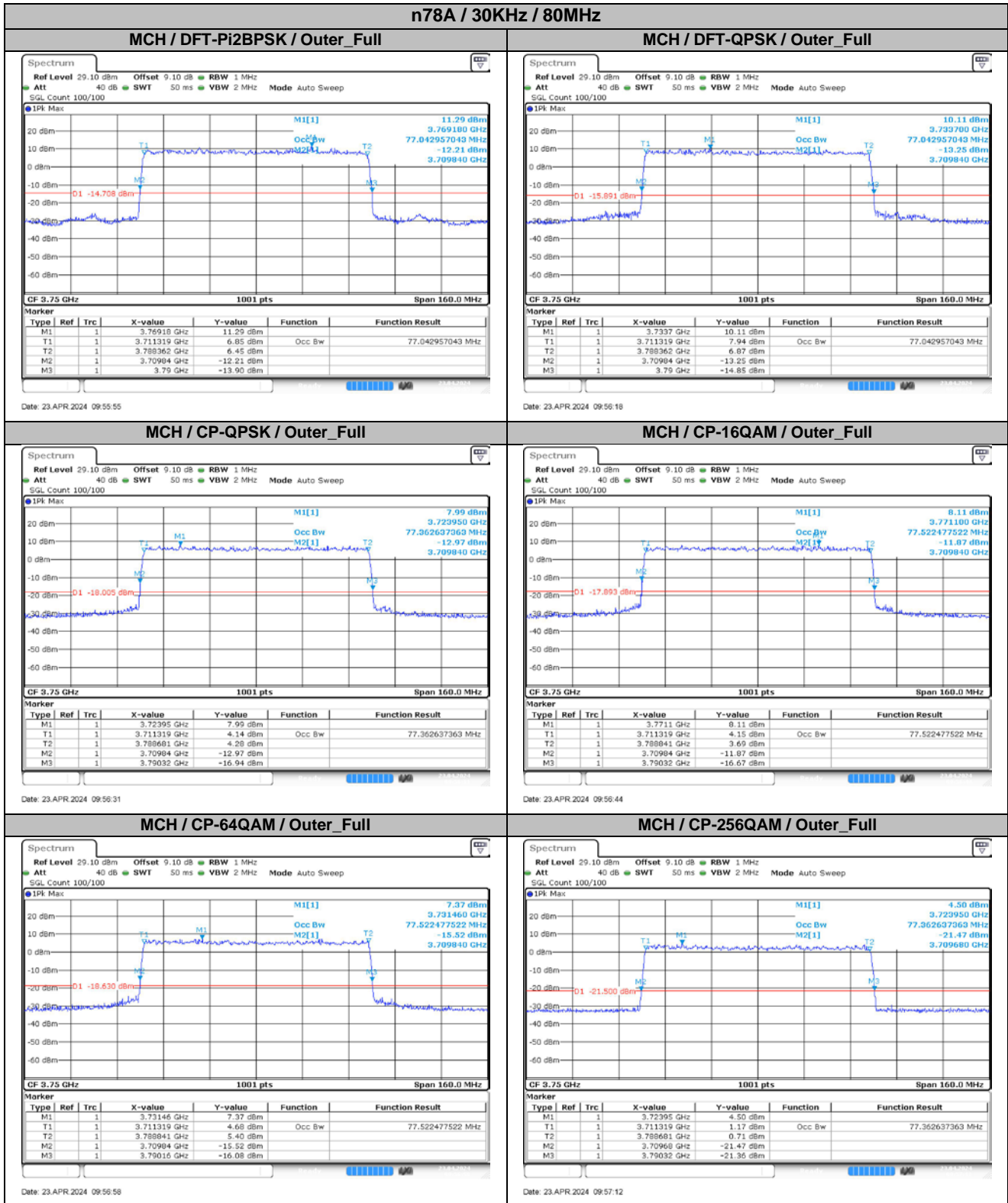


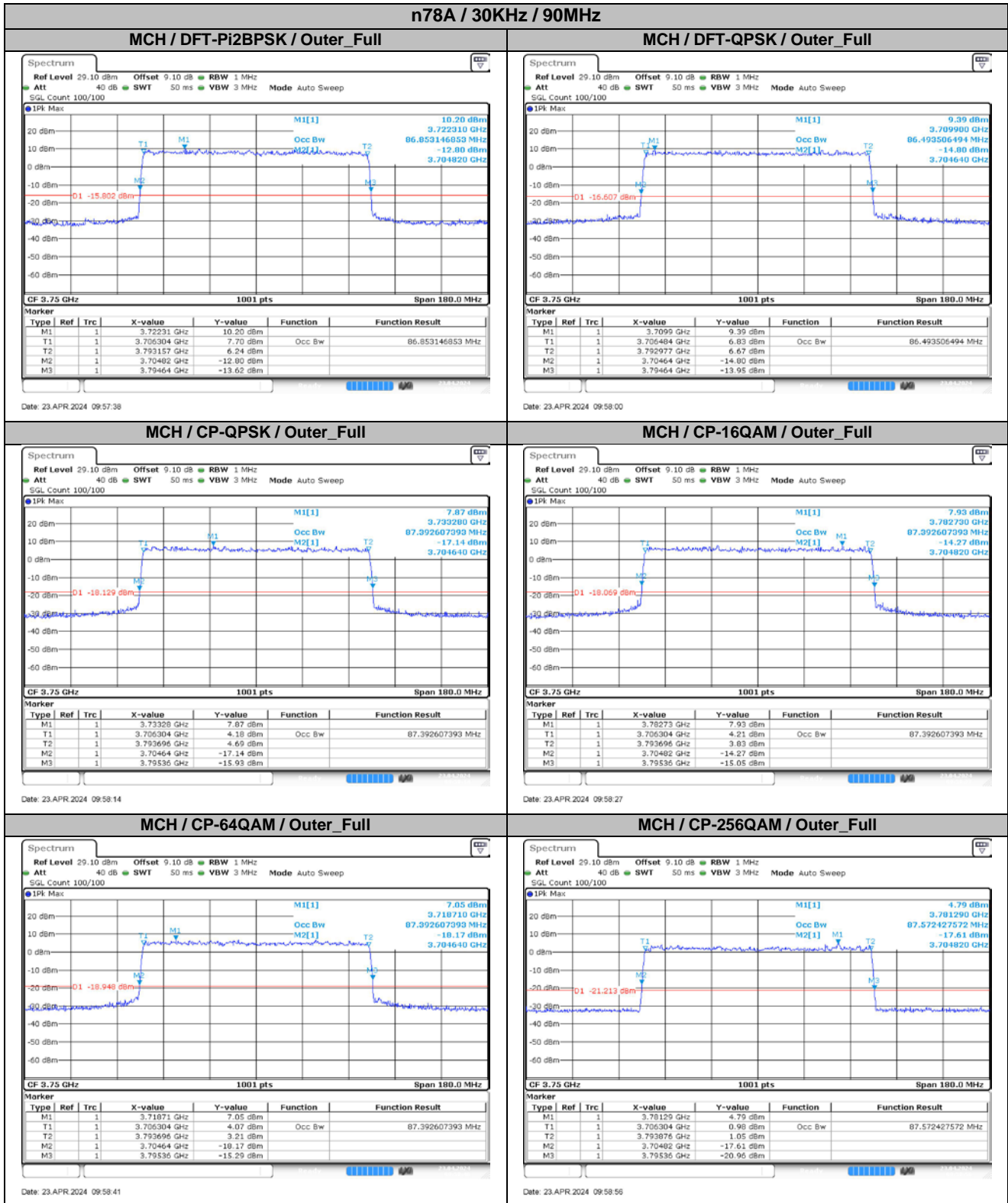


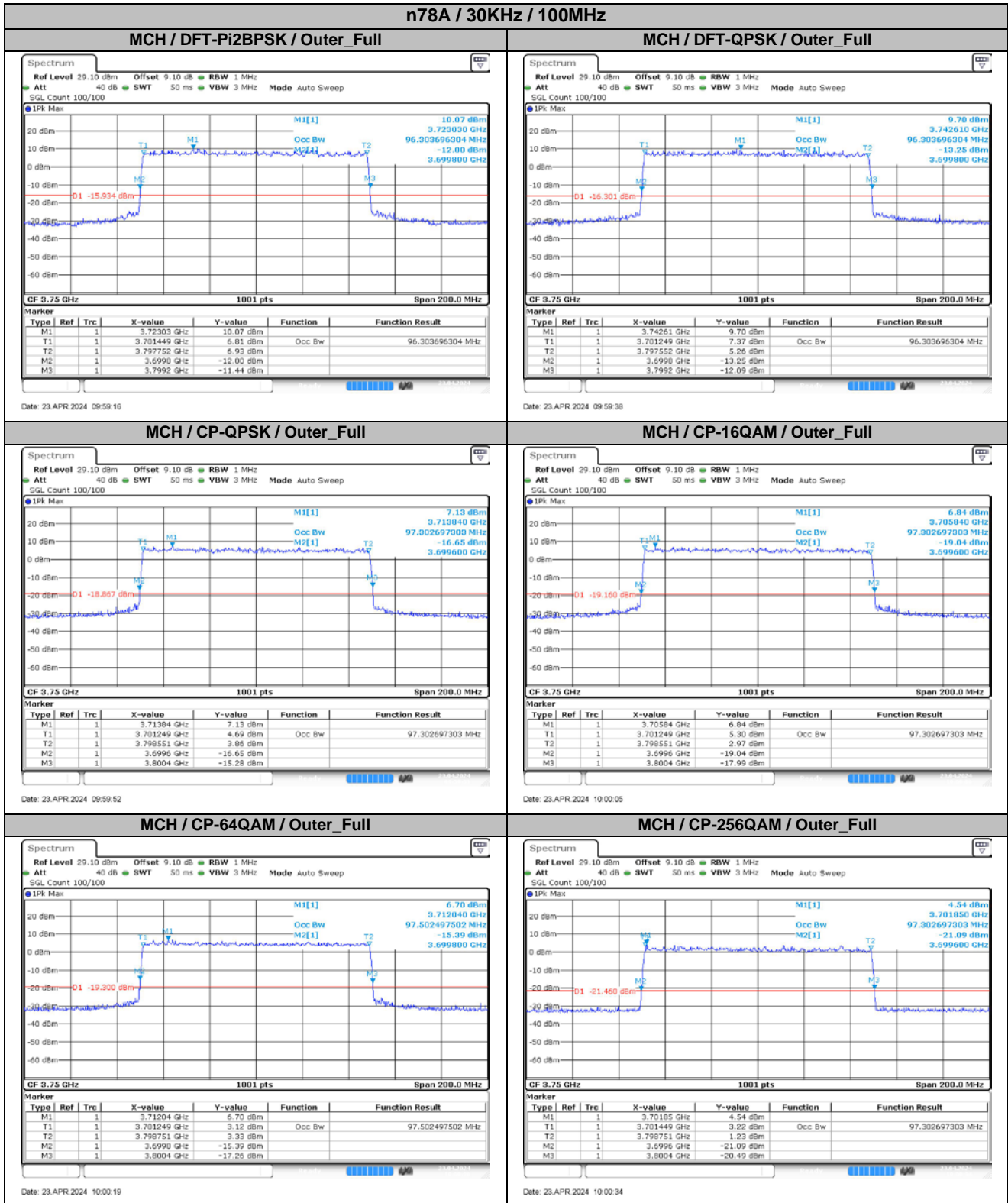












5. Conducted Band Edges

5.1. Test Plots

