

**Appendix
for
n5A
(824-849)**

Catalogue

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1. Effective Radiated Power

1.1. Test Results @ Ant0 (Antenna Gain=-3.82dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max ERP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
15KHz	5MHz	LCH	DFT-Pi2BPSK	23.30	23.11	22.99	17.33	38.45	Pass
15KHz	5MHz	LCH	DFT-QPSK	22.91	22.94	23.02	17.05	38.45	Pass
15KHz	5MHz	LCH	DFT-16QAM	21.86	21.94	21.95	15.98	38.45	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.51	20.63	20.59	14.66	38.45	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.58	18.68	18.49	12.71	38.45	Pass
15KHz	5MHz	LCH	CP-QPSK	21.64	21.82	21.51	15.85	38.45	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	23.25	23.18	23.06	17.28	38.45	Pass
15KHz	5MHz	MCH	DFT-QPSK	23.31	23.29	23.08	17.34	38.45	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.57	22.50	22.17	16.60	38.45	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.90	20.96	20.64	14.99	38.45	Pass
15KHz	5MHz	MCH	DFT-256QAM	19.24	19.29	18.80	13.32	38.45	Pass
15KHz	5MHz	MCH	CP-QPSK	22.13	22.16	21.71	16.19	38.45	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	23.12	23.18	23.17	17.21	38.45	Pass
15KHz	5MHz	HCH	DFT-QPSK	23.16	23.23	23.18	17.26	38.45	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.60	22.71	22.25	16.74	38.45	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.84	20.90	20.93	14.96	38.45	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.89	19.00	18.85	13.03	38.45	Pass
15KHz	5MHz	HCH	CP-QPSK	21.85	22.00	21.77	16.03	38.45	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	22.91	23.03	22.95	17.06	38.45	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.26	23.36	22.96	17.39	38.45	Pass
15KHz	10MHz	LCH	DFT-16QAM	21.45	21.66	21.99	16.02	38.45	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.38	20.49	20.55	14.58	38.45	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.43	18.55	18.50	12.58	38.45	Pass
15KHz	10MHz	LCH	CP-QPSK	21.69	21.70	21.40	15.73	38.45	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	23.41	23.50	23.07	17.53	38.45	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.07	23.14	23.09	17.17	38.45	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.25	22.28	22.01	16.31	38.45	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.98	21.08	20.52	15.11	38.45	Pass
15KHz	10MHz	MCH	DFT-256QAM	19.29	19.35	18.49	13.38	38.45	Pass
15KHz	10MHz	MCH	CP-QPSK	21.77	21.31	21.49	15.80	38.45	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.24	23.31	23.11	17.34	38.45	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.39	23.49	23.07	17.52	38.45	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.13	22.17	22.13	16.20	38.45	Pass
15KHz	10MHz	HCH	DFT-64QAM	21.21	21.31	20.76	15.34	38.45	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.85	19.02	18.68	13.05	38.45	Pass
15KHz	10MHz	HCH	CP-QPSK	21.71	21.77	21.59	15.80	38.45	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.17	23.41	23.01	17.44	38.45	Pass
15KHz	15MHz	LCH	DFT-QPSK	22.98	23.19	23.01	17.22	38.45	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.09	22.27	21.95	16.30	38.45	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.58	20.79	20.61	14.82	38.45	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.38	18.54	18.59	12.62	38.45	Pass
15KHz	15MHz	LCH	CP-QPSK	21.08	21.56	21.42	15.59	38.45	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	23.17	23.37	23.09	17.40	38.45	Pass
15KHz	15MHz	MCH	DFT-QPSK	22.86	22.99	23.14	17.17	38.45	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.19	22.39	22.04	16.42	38.45	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.80	20.87	20.65	14.90	38.45	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.93	19.00	18.59	13.03	38.45	Pass
15KHz	15MHz	MCH	CP-QPSK	21.46	21.72	21.49	15.75	38.45	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	23.16	23.22	23.13	17.25	38.45	Pass
15KHz	15MHz	HCH	DFT-QPSK	22.90	22.96	23.09	17.12	38.45	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.65	22.71	22.09	16.74	38.45	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.71	20.92	20.70	14.95	38.45	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.67	18.83	18.76	12.86	38.45	Pass
15KHz	15MHz	HCH	CP-QPSK	22.00	21.88	21.61	16.03	38.45	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	22.89	23.14	23.08	17.17	38.45	Pass
15KHz	20MHz	LCH	DFT-QPSK	23.09	23.34	23.10	17.37	38.45	Pass
15KHz	20MHz	LCH	DFT-16QAM	21.87	22.17	22.15	16.20	38.45	Pass
15KHz	20MHz	LCH	DFT-64QAM	20.39	20.59	20.61	14.64	38.45	Pass

15KHz	20MHz	LCH	DFT-256QAM	18.56	18.80	18.60	12.83	38.45	Pass
15KHz	20MHz	LCH	CP-QPSK	21.77	22.00	21.60	16.03	38.45	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.04	23.22	23.15	17.25	38.45	Pass
15KHz	20MHz	MCH	DFT-QPSK	22.98	23.16	23.19	17.22	38.45	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.02	22.21	22.13	16.24	38.45	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.87	21.05	20.61	15.08	38.45	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.87	19.06	18.60	13.09	38.45	Pass
15KHz	20MHz	MCH	CP-QPSK	21.55	21.67	21.68	15.71	38.45	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	22.85	23.11	23.10	17.14	38.45	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.16	23.43	23.13	17.46	38.45	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.25	22.50	22.14	16.53	38.45	Pass
15KHz	20MHz	HCH	DFT-64QAM	21.00	21.13	20.68	15.16	38.45	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.89	19.04	18.73	13.07	38.45	Pass
15KHz	20MHz	HCH	CP-QPSK	21.63	21.94	21.66	15.97	38.45	Pass
30KHz	10MHz	LCH	DFT-Pi2BPSK	23.05	23.19	23.06	17.22	38.45	Pass
30KHz	10MHz	LCH	DFT-QPSK	23.01	23.16	23.03	17.19	38.45	Pass
30KHz	10MHz	LCH	DFT-16QAM	22.18	22.44	21.90	16.47	38.45	Pass
30KHz	10MHz	LCH	DFT-64QAM	20.45	20.60	20.68	14.71	38.45	Pass
30KHz	10MHz	LCH	DFT-256QAM	18.65	18.81	18.62	12.84	38.45	Pass
30KHz	10MHz	LCH	CP-QPSK	22.04	22.20	21.71	16.23	38.45	Pass
30KHz	10MHz	MCH	DFT-Pi2BPSK	23.14	23.21	23.11	17.24	38.45	Pass
30KHz	10MHz	MCH	DFT-QPSK	23.32	23.38	23.11	17.41	38.45	Pass
30KHz	10MHz	MCH	DFT-16QAM	22.10	22.12	22.14	16.17	38.45	Pass
30KHz	10MHz	MCH	DFT-64QAM	20.53	20.48	20.57	14.60	38.45	Pass
30KHz	10MHz	MCH	DFT-256QAM	18.44	18.45	18.63	12.66	38.45	Pass
30KHz	10MHz	MCH	CP-QPSK	22.04	22.07	21.61	16.10	38.45	Pass
30KHz	10MHz	HCH	DFT-Pi2BPSK	23.41	23.44	23.19	17.47	38.45	Pass
30KHz	10MHz	HCH	DFT-QPSK	23.51	23.61	23.24	17.64	38.45	Pass
30KHz	10MHz	HCH	DFT-16QAM	22.10	22.21	22.24	16.27	38.45	Pass
30KHz	10MHz	HCH	DFT-64QAM	20.58	20.71	20.69	14.74	38.45	Pass
30KHz	10MHz	HCH	DFT-256QAM	19.08	19.13	18.71	13.16	38.45	Pass
30KHz	10MHz	HCH	CP-QPSK	22.12	22.19	21.68	16.22	38.45	Pass
30KHz	15MHz	LCH	DFT-Pi2BPSK	23.19	23.42	23.00	17.45	38.45	Pass
30KHz	15MHz	LCH	DFT-QPSK	23.02	23.30	23.09	17.33	38.45	Pass
30KHz	15MHz	LCH	DFT-16QAM	22.51	22.60	22.06	16.63	38.45	Pass
30KHz	15MHz	LCH	DFT-64QAM	20.94	21.09	20.60	15.12	38.45	Pass
30KHz	15MHz	LCH	DFT-256QAM	18.47	18.55	18.69	12.72	38.45	Pass
30KHz	15MHz	LCH	CP-QPSK	21.31	21.95	21.60	15.98	38.45	Pass
30KHz	15MHz	MCH	DFT-Pi2BPSK	23.25	23.29	23.01	17.32	38.45	Pass
30KHz	15MHz	MCH	DFT-QPSK	23.01	23.26	23.00	17.29	38.45	Pass
30KHz	15MHz	MCH	DFT-16QAM	22.05	22.15	22.04	16.18	38.45	Pass
30KHz	15MHz	MCH	DFT-64QAM	20.53	20.57	20.54	14.60	38.45	Pass
30KHz	15MHz	MCH	DFT-256QAM	18.66	18.77	18.60	12.80	38.45	Pass
30KHz	15MHz	MCH	CP-QPSK	21.62	21.58	21.65	15.68	38.45	Pass
30KHz	15MHz	HCH	DFT-Pi2BPSK	23.39	23.48	23.13	17.51	38.45	Pass
30KHz	15MHz	HCH	DFT-QPSK	23.08	23.10	23.21	17.24	38.45	Pass
30KHz	15MHz	HCH	DFT-16QAM	22.54	22.58	22.07	16.61	38.45	Pass
30KHz	15MHz	HCH	DFT-64QAM	20.62	20.85	20.60	14.88	38.45	Pass
30KHz	15MHz	HCH	DFT-256QAM	18.95	19.10	18.58	13.13	38.45	Pass
30KHz	15MHz	HCH	CP-QPSK	21.81	22.35	21.56	16.38	38.45	Pass
30KHz	20MHz	LCH	DFT-Pi2BPSK	23.15	23.21	23.21	17.24	38.45	Pass
30KHz	20MHz	LCH	DFT-QPSK	23.01	23.18	23.14	17.21	38.45	Pass
30KHz	20MHz	LCH	DFT-16QAM	22.40	22.63	22.13	16.66	38.45	Pass
30KHz	20MHz	LCH	DFT-64QAM	20.50	20.64	20.62	14.67	38.45	Pass
30KHz	20MHz	LCH	DFT-256QAM	18.73	18.92	18.62	12.95	38.45	Pass
30KHz	20MHz	LCH	CP-QPSK	21.88	21.79	21.77	15.91	38.45	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	23.16	23.30	23.15	17.33	38.45	Pass
30KHz	20MHz	MCH	DFT-QPSK	23.17	23.30	23.19	17.33	38.45	Pass
30KHz	20MHz	MCH	DFT-16QAM	22.02	22.25	22.26	16.29	38.45	Pass
30KHz	20MHz	MCH	DFT-64QAM	20.44	20.61	20.60	14.64	38.45	Pass
30KHz	20MHz	MCH	DFT-256QAM	18.73	18.86	18.74	12.89	38.45	Pass
30KHz	20MHz	MCH	CP-QPSK	21.91	22.19	21.66	16.22	38.45	Pass

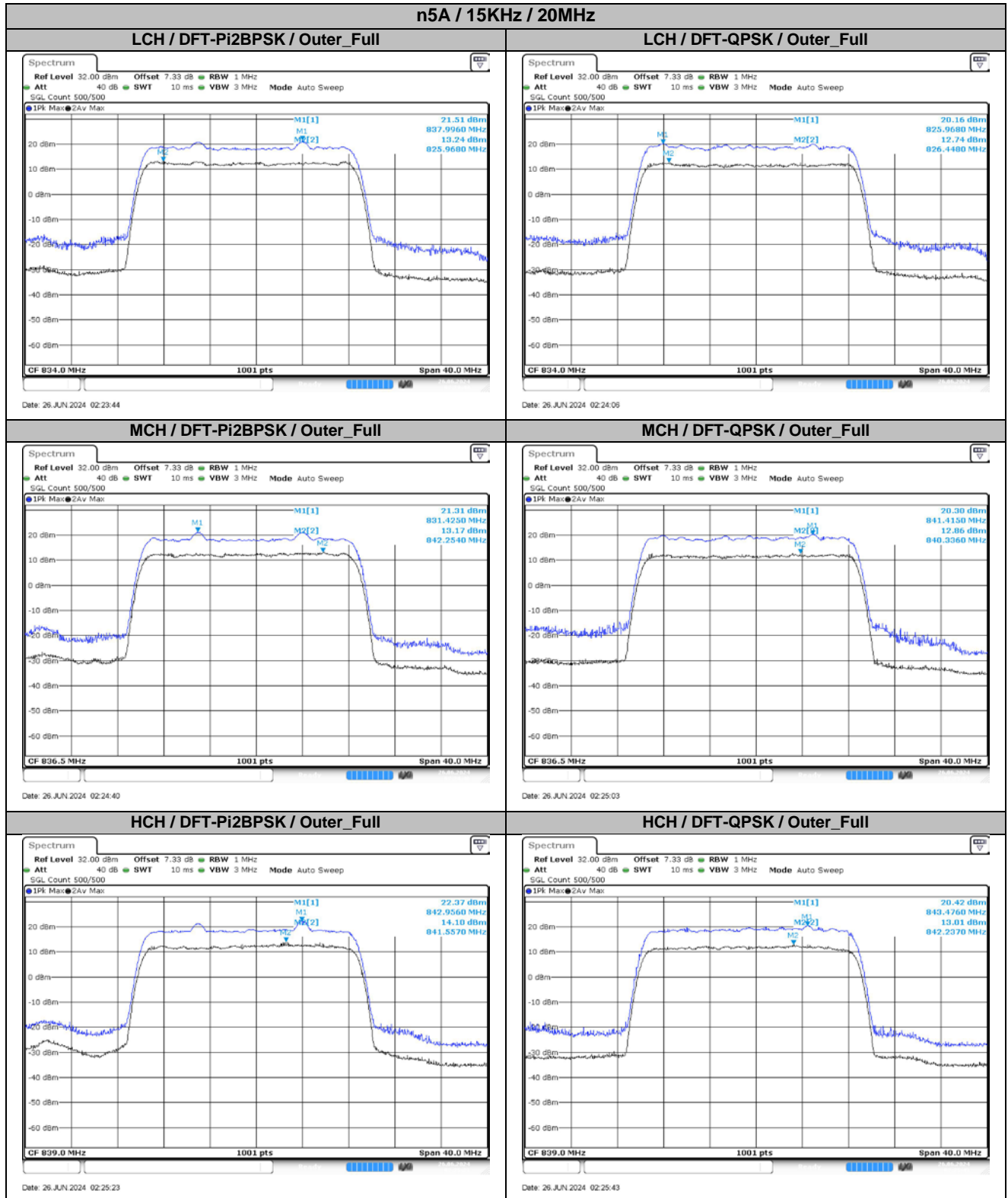
30KHz	20MHz	HCH	DFT-Pi2BPSK	23.28	23.49	23.14	17.52	38.45	Pass
30KHz	20MHz	HCH	DFT-QPSK	23.16	23.38	23.19	17.41	38.45	Pass
30KHz	20MHz	HCH	DFT-16QAM	22.08	22.30	22.08	16.33	38.45	Pass
30KHz	20MHz	HCH	DFT-64QAM	20.73	20.92	20.66	14.95	38.45	Pass
30KHz	20MHz	HCH	DFT-256QAM	19.07	19.18	18.55	13.21	38.45	Pass
30KHz	20MHz	HCH	CP-QPSK	21.81	22.07	21.64	16.10	38.45	Pass

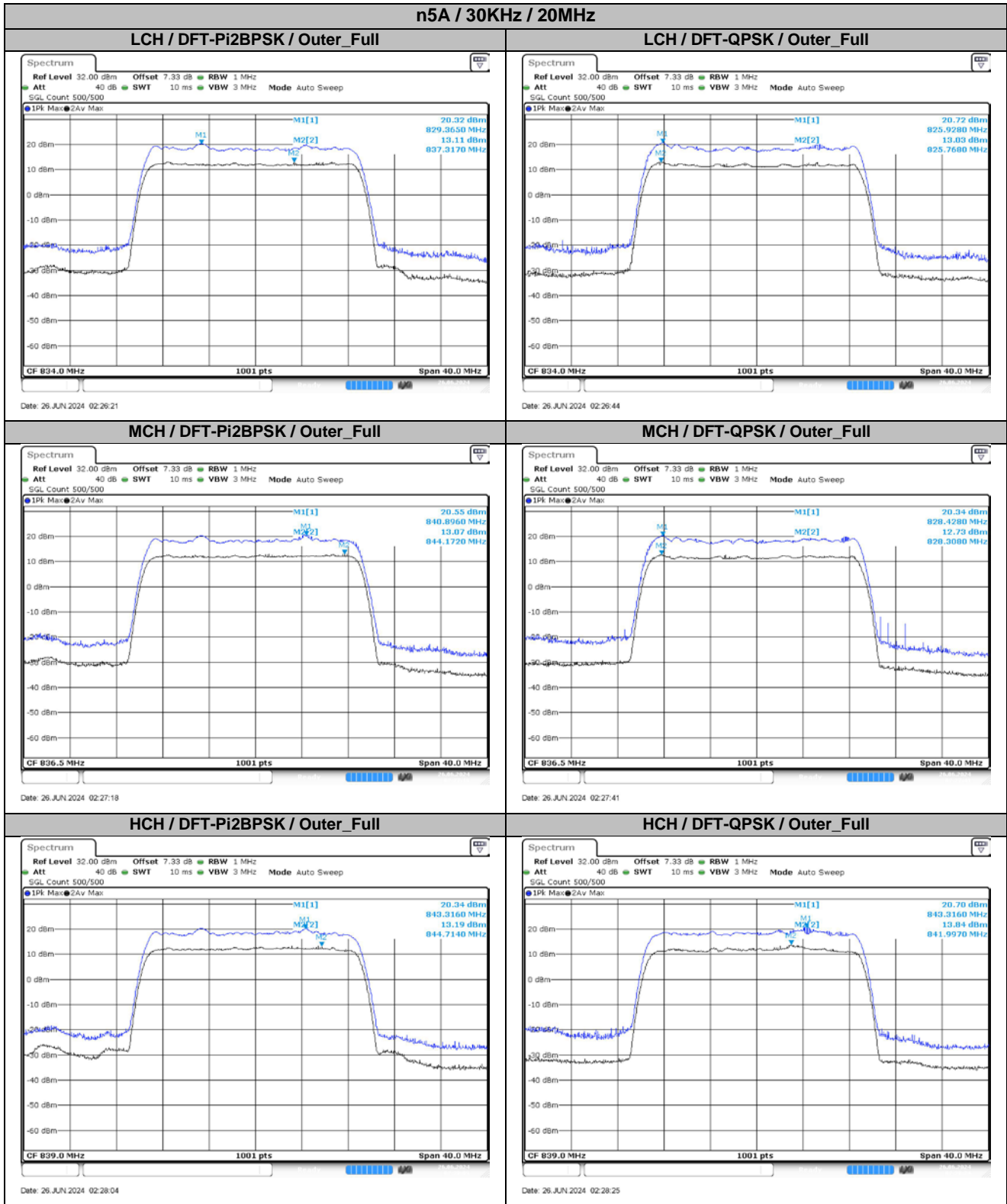
2. Peak-to-Average Ratio

2.1. Test Results

Channel	RB	15KHz / 20MHz		30KHz / 20MHz		Limit (dB)	Verdict
		DFT-Pi2BPSK	DFT-QPSK	DFT-Pi2BPSK	DFT-QPSK		
LCH	Outer_Full	8.27	7.42	7.21	7.70	13.00	Pass
MCH	Outer_Full	8.14	7.44	7.48	7.61	13.00	Pass
HCH	Outer_Full	8.28	7.41	7.16	6.86	13.00	Pass

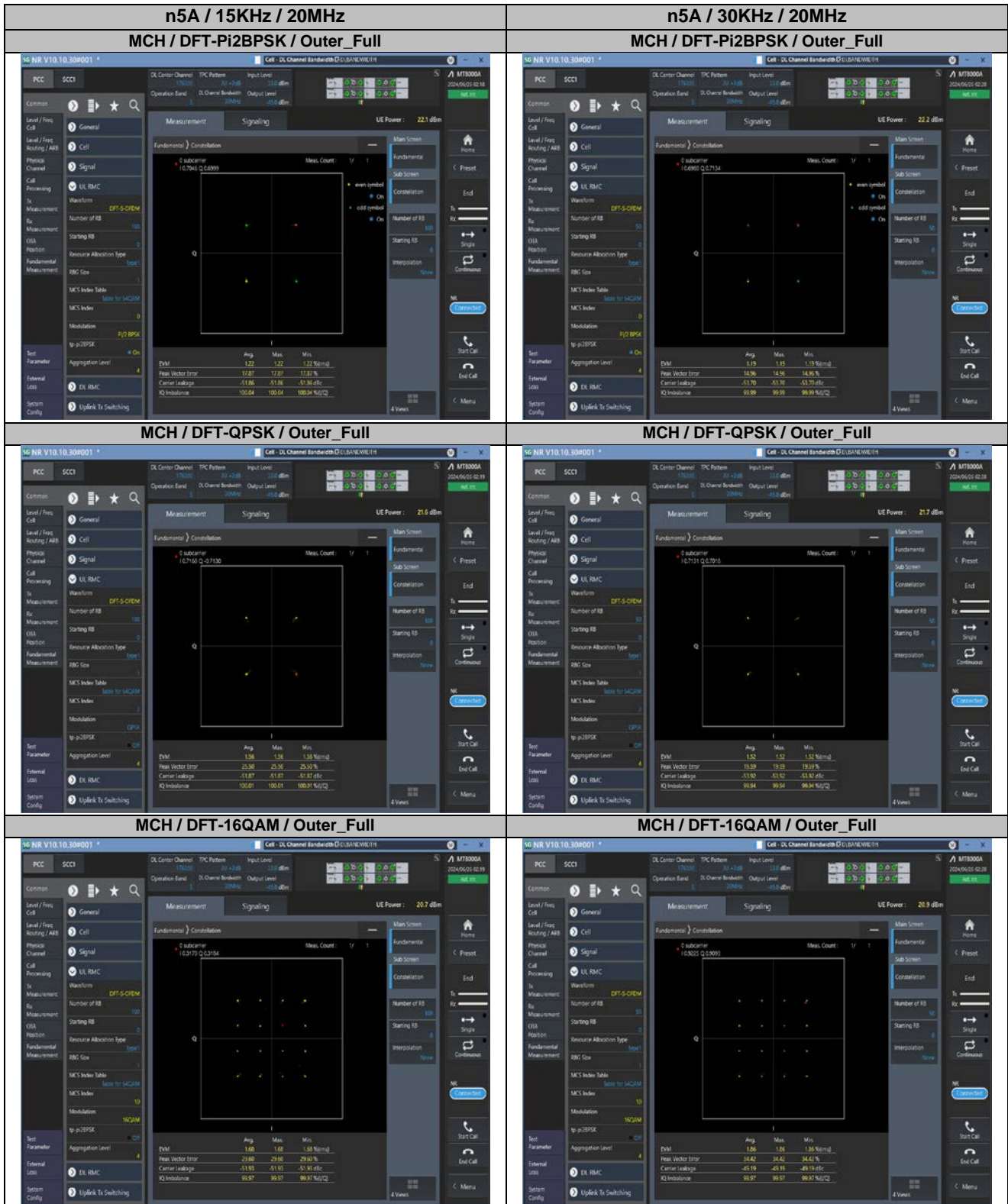
2.2. Test Plots

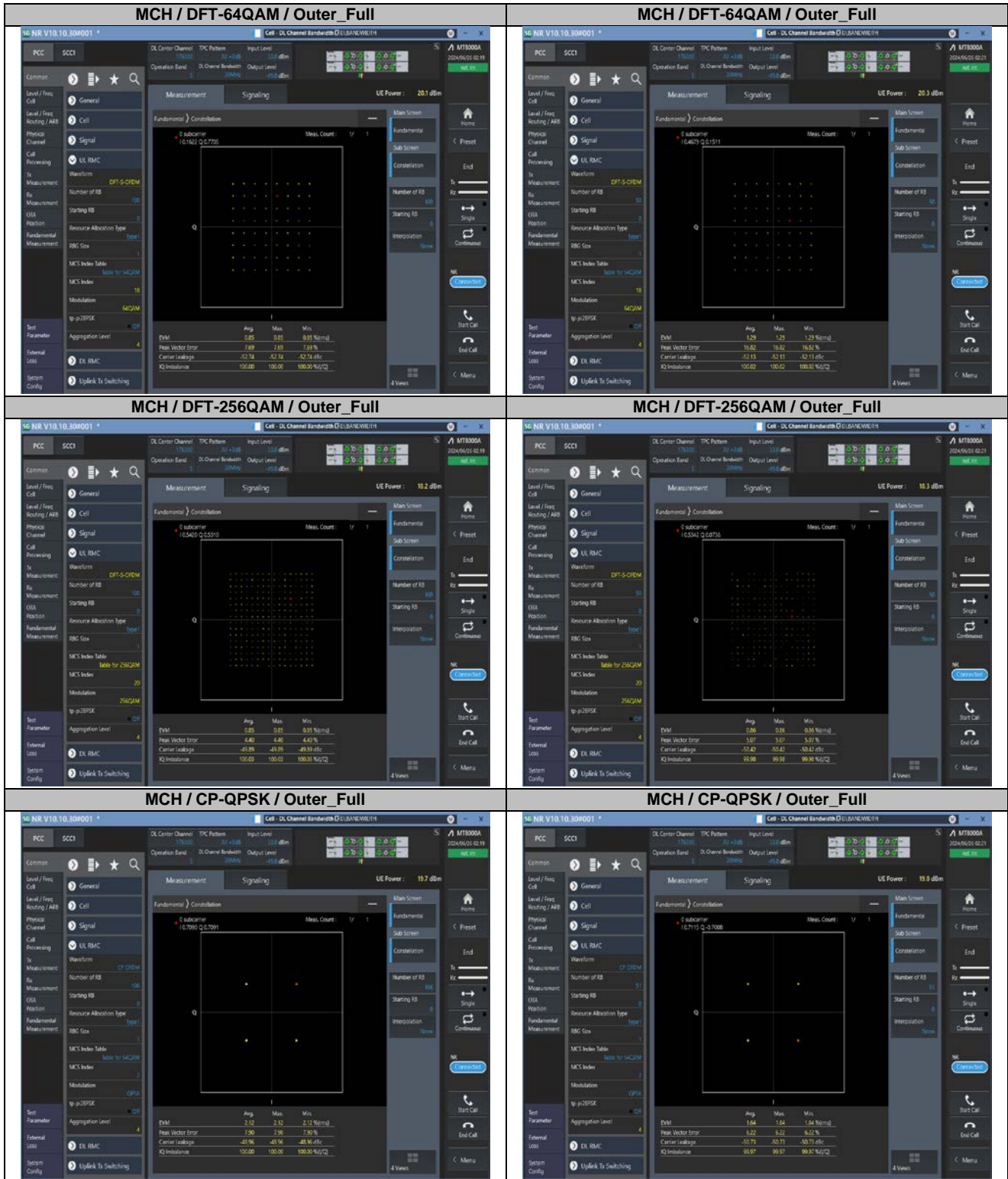


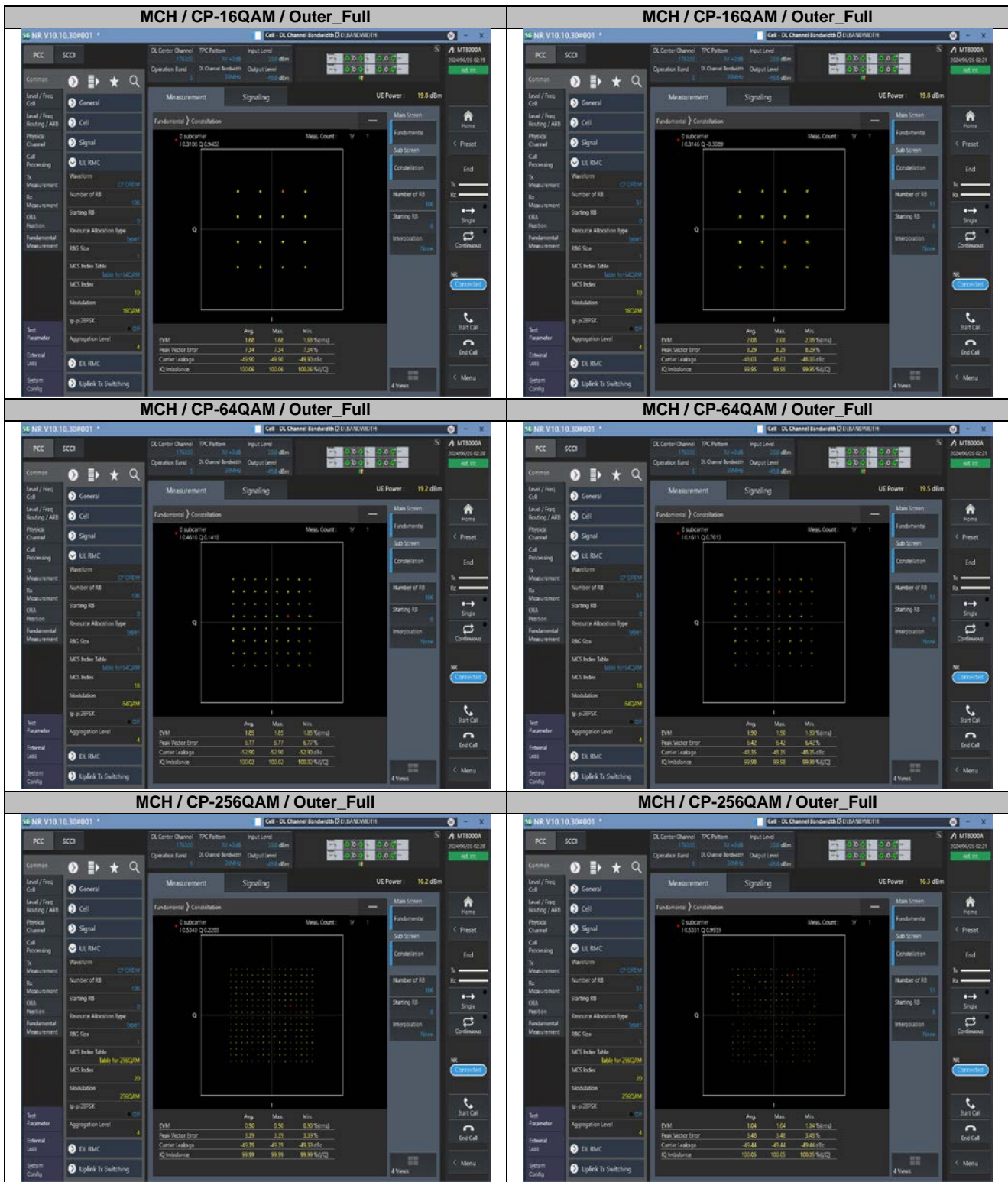


3. Modulation Characteristics

3.1. Test Plots





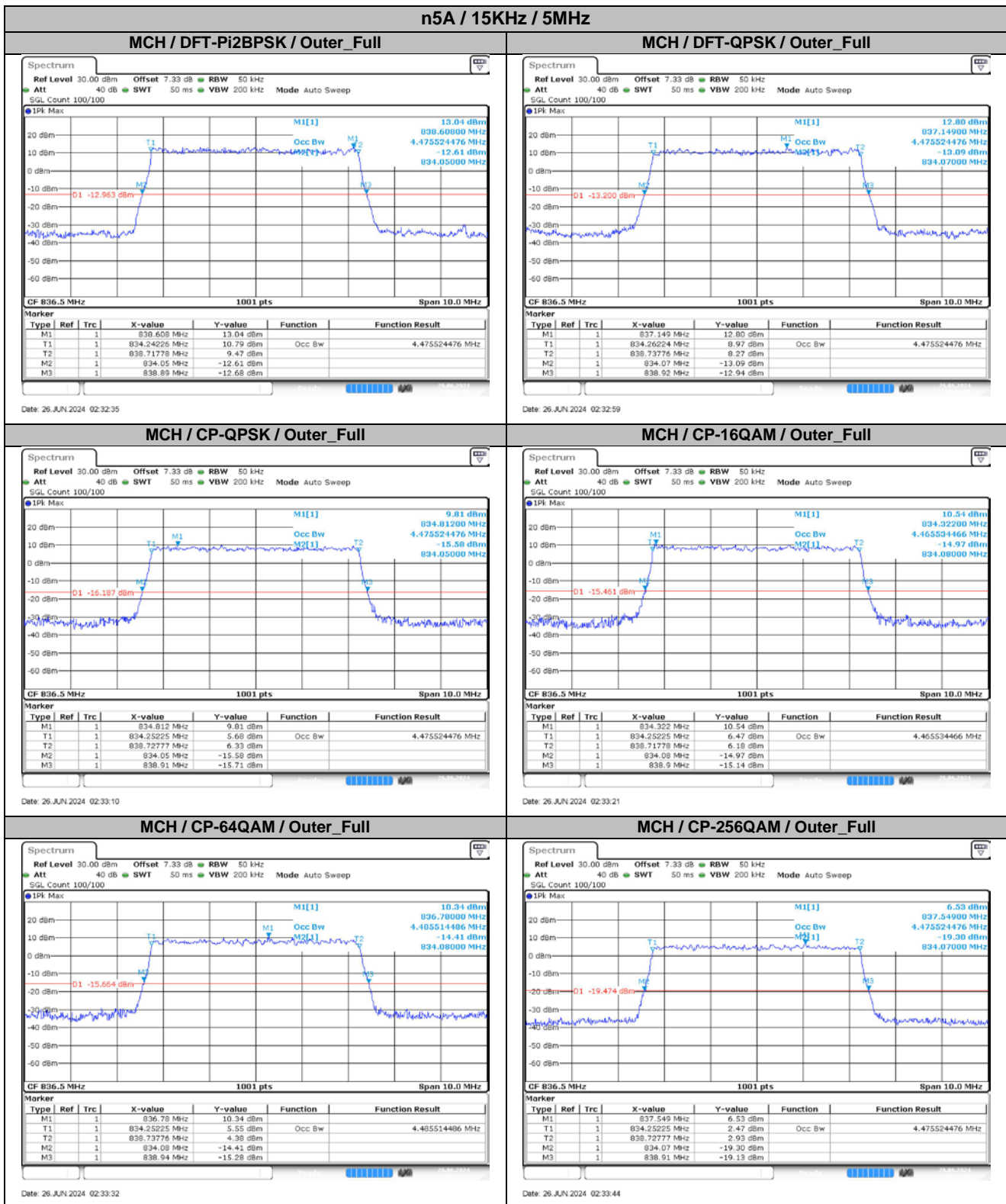


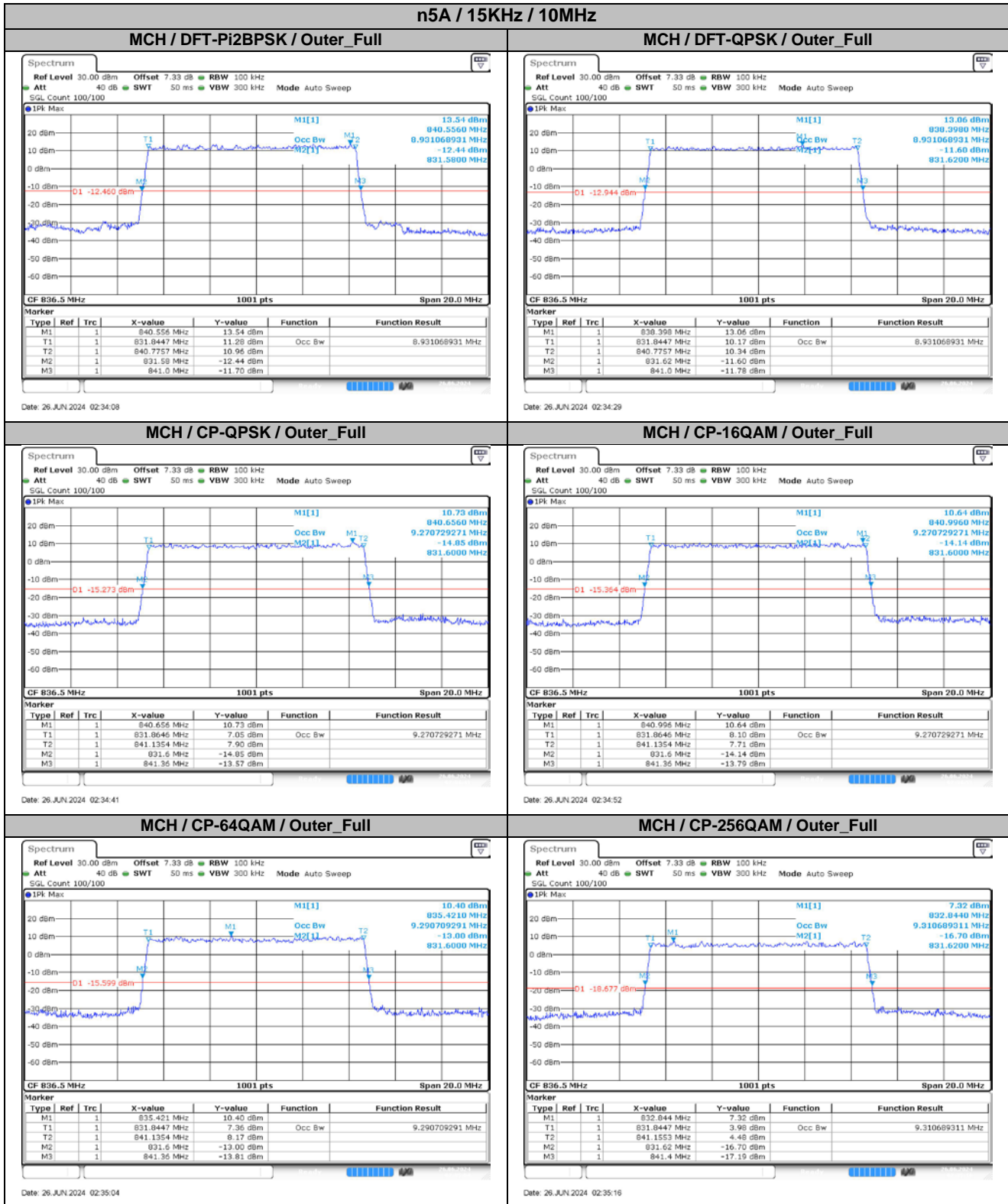
4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

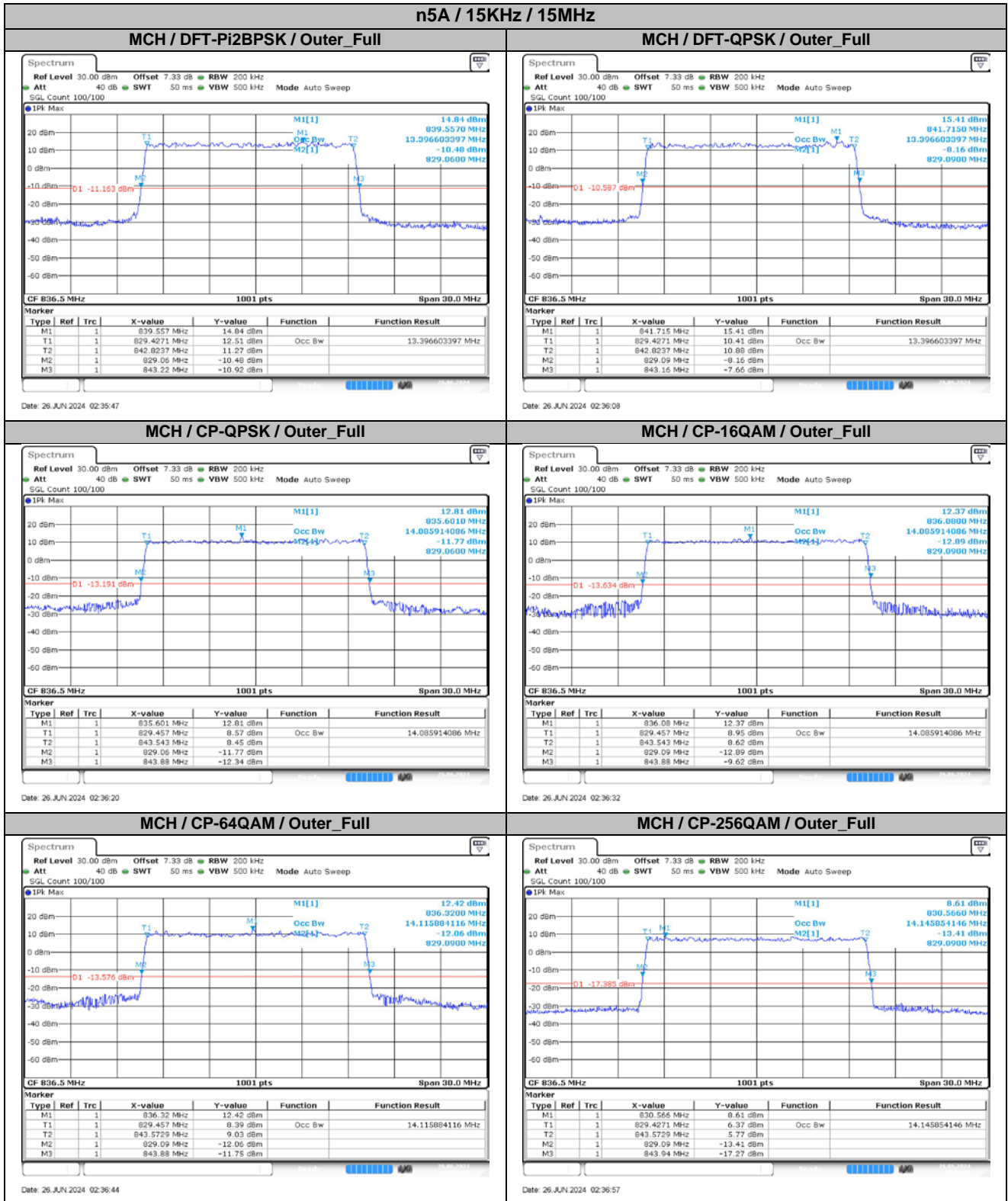
4.1. Test Results

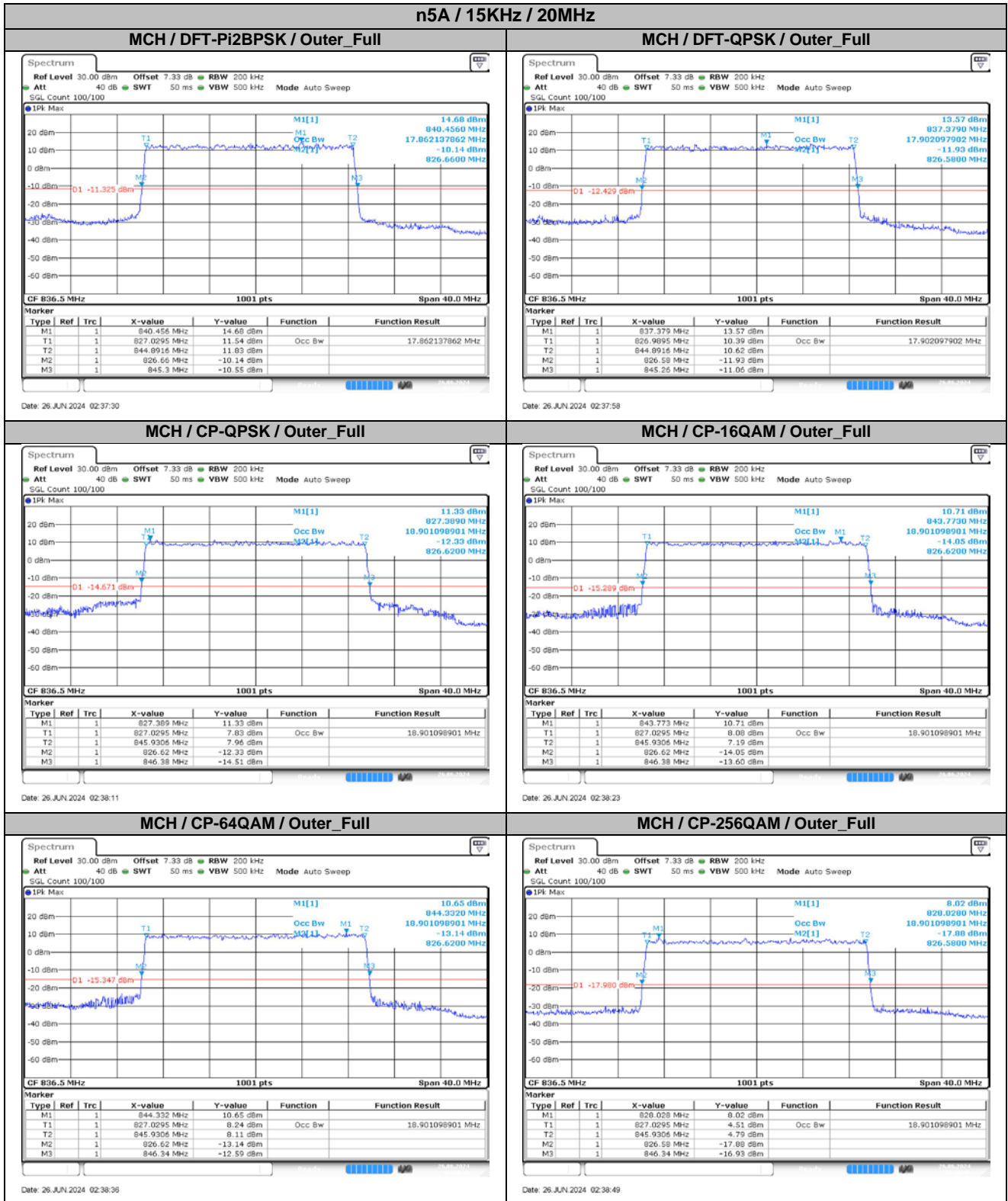
Bandwidth	Modulation	RB	99% Occupied Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		Verdict
			15KHz	30KHz	15KHz	30KHz	
5MHz	DFT-Pi2BPSK	Outer_Full	4.48	N/A	4.84	N/A	Pass
5MHz	DFT-QPSK	Outer_Full	4.48	N/A	4.85	N/A	Pass
5MHz	CP-QPSK	Outer_Full	4.48	N/A	4.86	N/A	Pass
5MHz	CP-16QAM	Outer_Full	4.47	N/A	4.82	N/A	Pass
5MHz	CP-64QAM	Outer_Full	4.49	N/A	4.86	N/A	Pass
5MHz	CP-256QAM	Outer_Full	4.48	N/A	4.84	N/A	Pass
10MHz	DFT-Pi2BPSK	Outer_Full	8.93	8.59	9.42	9.26	Pass
10MHz	DFT-QPSK	Outer_Full	8.93	8.57	9.38	9.32	Pass
10MHz	CP-QPSK	Outer_Full	9.27	8.61	9.76	9.36	Pass
10MHz	CP-16QAM	Outer_Full	9.27	8.59	9.76	9.36	Pass
10MHz	CP-64QAM	Outer_Full	9.29	8.61	9.76	9.34	Pass
10MHz	CP-256QAM	Outer_Full	9.31	8.59	9.78	9.36	Pass
15MHz	DFT-Pi2BPSK	Outer_Full	13.40	12.89	14.16	13.71	Pass
15MHz	DFT-QPSK	Outer_Full	13.40	12.92	14.07	13.83	Pass
15MHz	CP-QPSK	Outer_Full	14.09	13.58	14.82	14.64	Pass
15MHz	CP-16QAM	Outer_Full	14.09	13.64	14.79	14.61	Pass
15MHz	CP-64QAM	Outer_Full	14.12	13.67	14.79	14.52	Pass
15MHz	CP-256QAM	Outer_Full	14.15	13.64	14.85	14.64	Pass
20MHz	DFT-Pi2BPSK	Outer_Full	17.86	17.86	18.64	18.76	Pass
20MHz	DFT-QPSK	Outer_Full	17.90	17.86	18.68	18.68	Pass
20MHz	CP-QPSK	Outer_Full	18.90	18.18	19.76	19.24	Pass
20MHz	CP-16QAM	Outer_Full	18.90	18.18	19.76	19.20	Pass
20MHz	CP-64QAM	Outer_Full	18.90	18.22	19.72	19.24	Pass
20MHz	CP-256QAM	Outer_Full	18.90	18.22	19.76	19.16	Pass

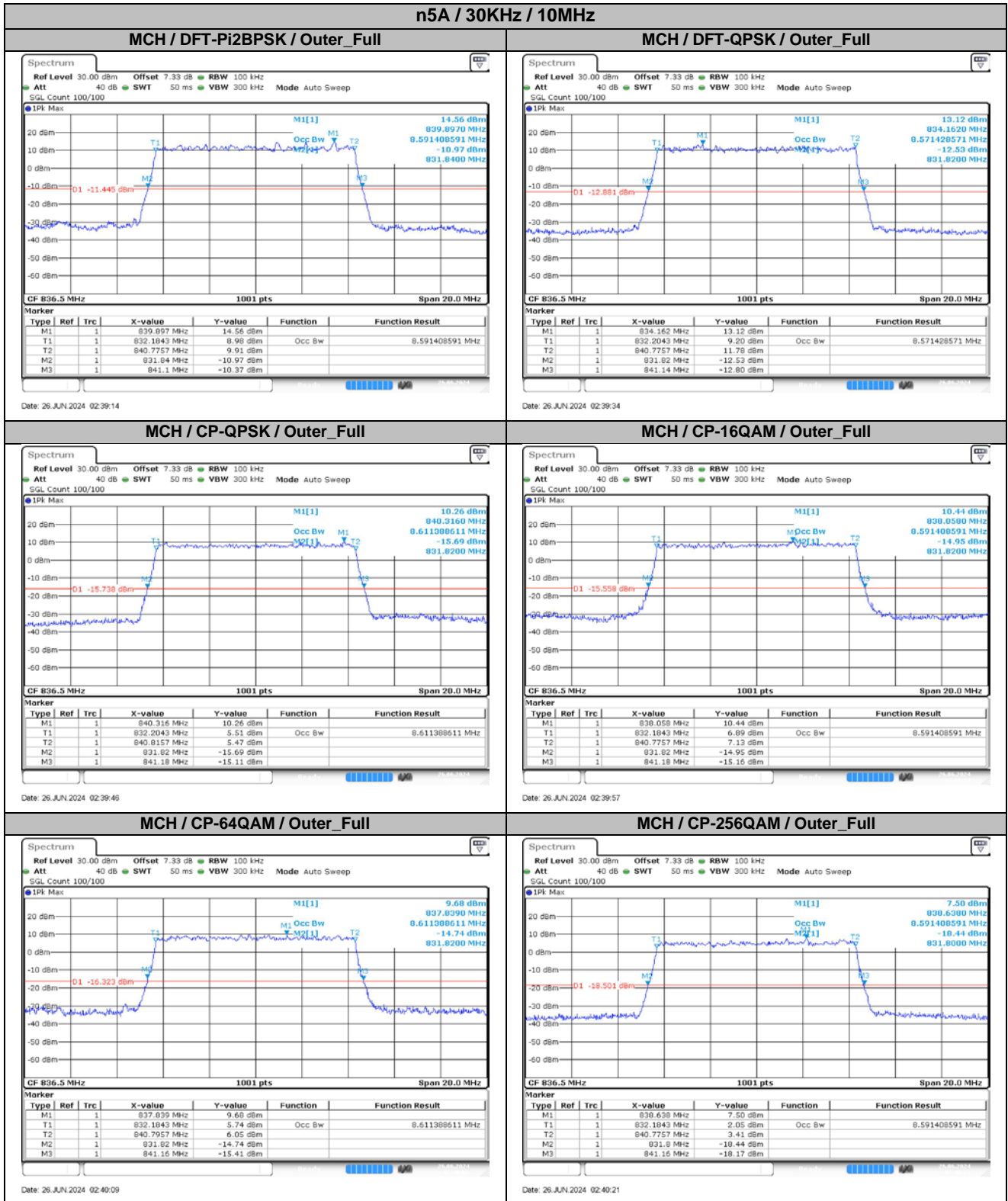
4.2. Test Plots

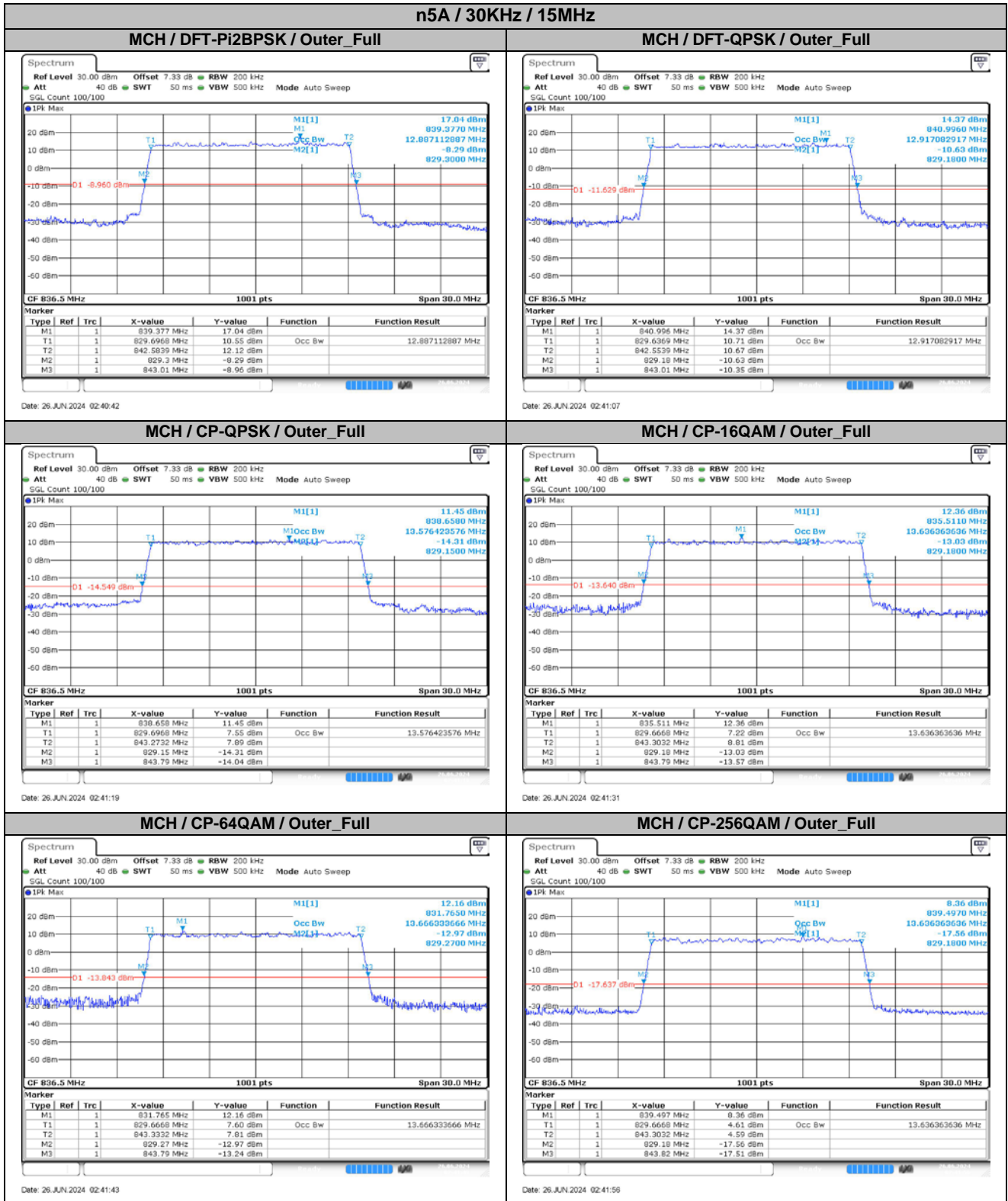


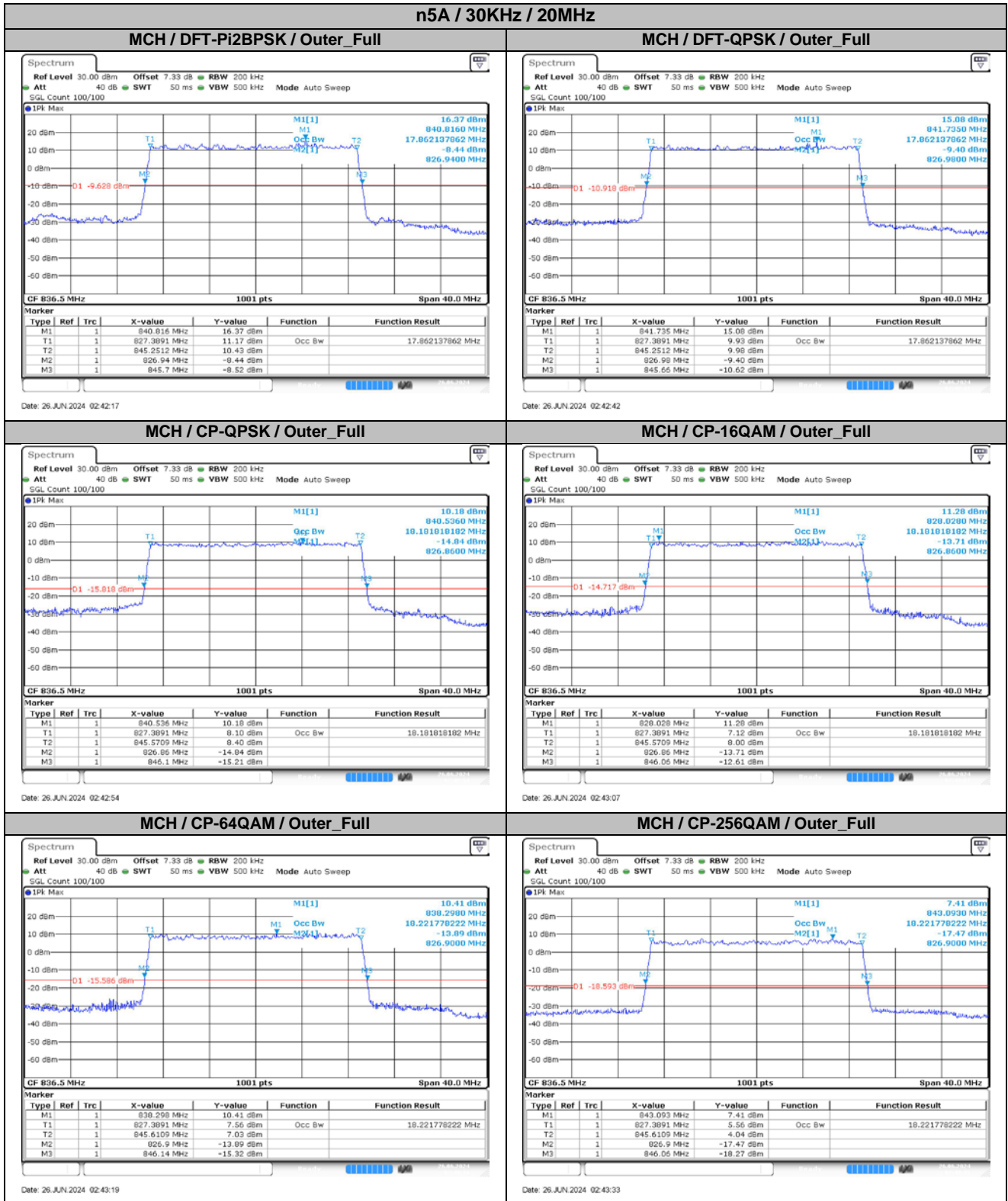












5. Conducted Band Edges

5.1. Test Plots

