

Appendix for DC_4A_n7A (2500-2570)

Catalogue

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1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant4 (Antenna Gain=-6.90dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max EIRP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
15KHz	5MHz	LCH	DFT-Pi2BPSK	22.84	22.83	22.77	15.94	33.00	Pass
15KHz	5MHz	LCH	DFT-QPSK	22.73	22.75	22.70	15.85	33.00	Pass
15KHz	5MHz	LCH	DFT-16QAM	21.91	21.83	21.80	15.01	33.00	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.29	20.19	20.41	13.51	33.00	Pass
15KHz	5MHz	LCH	DFT-256QAM	17.78	17.81	18.16	11.26	33.00	Pass
15KHz	5MHz	LCH	CP-QPSK	21.32	21.26	21.27	14.42	33.00	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	22.99	23.20	23.18	16.30	33.00	Pass
15KHz	5MHz	MCH	DFT-QPSK	23.05	23.21	23.25	16.35	33.00	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.18	22.33	22.25	15.43	33.00	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.52	20.75	20.82	13.92	33.00	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.02	18.11	18.55	11.65	33.00	Pass
15KHz	5MHz	MCH	CP-QPSK	21.59	21.75	21.63	14.85	33.00	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	22.74	22.62	22.73	15.84	33.00	Pass
15KHz	5MHz	HCH	DFT-QPSK	22.80	22.63	22.74	15.90	33.00	Pass
15KHz	5MHz	HCH	DFT-16QAM	21.93	21.70	21.81	15.03	33.00	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.40	20.20	20.50	13.60	33.00	Pass
15KHz	5MHz	HCH	DFT-256QAM	17.88	17.83	18.29	11.39	33.00	Pass
15KHz	5MHz	HCH	CP-QPSK	21.41	21.15	21.28	14.51	33.00	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	22.72	22.62	22.79	15.89	33.00	Pass
15KHz	10MHz	LCH	DFT-QPSK	22.77	22.70	22.76	15.87	33.00	Pass
15KHz	10MHz	LCH	DFT-16QAM	21.83	21.71	21.82	14.93	33.00	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.31	20.16	20.28	13.41	33.00	Pass
15KHz	10MHz	LCH	DFT-256QAM	17.85	17.74	18.09	11.19	33.00	Pass
15KHz	10MHz	LCH	CP-QPSK	21.39	21.24	21.31	14.49	33.00	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	22.98	23.25	23.31	16.41	33.00	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.05	23.24	23.23	16.34	33.00	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.05	22.32	22.31	15.42	33.00	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.51	20.69	20.75	13.85	33.00	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.01	18.13	18.47	11.57	33.00	Pass
15KHz	10MHz	MCH	CP-QPSK	21.49	21.72	21.68	14.82	33.00	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	22.96	22.58	22.92	16.06	33.00	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.03	22.61	23.00	16.13	33.00	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.20	21.70	22.07	15.30	33.00	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.68	20.17	20.52	13.78	33.00	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.09	17.84	18.33	11.43	33.00	Pass
15KHz	10MHz	HCH	CP-QPSK	21.52	21.21	21.50	14.62	33.00	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	22.62	22.52	22.68	15.78	33.00	Pass
15KHz	15MHz	LCH	DFT-QPSK	22.70	22.59	22.68	15.80	33.00	Pass
15KHz	15MHz	LCH	DFT-16QAM	21.78	21.70	21.68	14.88	33.00	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.30	20.09	20.31	13.41	33.00	Pass
15KHz	15MHz	LCH	DFT-256QAM	17.79	17.77	17.97	11.07	33.00	Pass
15KHz	15MHz	LCH	CP-QPSK	21.33	21.15	21.24	14.43	33.00	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	22.84	23.04	23.20	16.30	33.00	Pass
15KHz	15MHz	MCH	DFT-QPSK	22.88	23.19	23.20	16.30	33.00	Pass
15KHz	15MHz	MCH	DFT-16QAM	21.99	22.18	22.21	15.31	33.00	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.40	20.60	20.74	13.84	33.00	Pass
15KHz	15MHz	MCH	DFT-256QAM	17.82	18.07	18.30	11.40	33.00	Pass
15KHz	15MHz	MCH	CP-QPSK	21.42	21.70	21.71	14.81	33.00	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	22.98	22.46	22.92	16.08	33.00	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.05	22.50	22.94	16.15	33.00	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.07	21.62	22.02	15.17	33.00	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.54	20.04	20.48	13.64	33.00	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.08	17.73	18.15	11.25	33.00	Pass
15KHz	15MHz	HCH	CP-QPSK	21.51	21.10	21.43	14.61	33.00	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	22.57	22.55	22.67	15.77	33.00	Pass
15KHz	20MHz	LCH	DFT-QPSK	22.61	22.60	22.67	15.77	33.00	Pass
15KHz	20MHz	LCH	DFT-16QAM	21.72	21.62	21.79	14.89	33.00	Pass
15KHz	20MHz	LCH	DFT-64QAM	20.23	20.11	20.29	13.39	33.00	Pass

15KHz	20MHz	LCH	DFT-256QAM	17.80	17.76	18.05	11.15	33.00	Pass
15KHz	20MHz	LCH	CP-QPSK	21.31	21.06	21.23	14.41	33.00	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	22.75	23.07	23.19	16.29	33.00	Pass
15KHz	20MHz	MCH	DFT-QPSK	22.79	23.11	23.21	16.31	33.00	Pass
15KHz	20MHz	MCH	DFT-16QAM	21.90	22.19	22.18	15.29	33.00	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.33	20.54	20.69	13.79	33.00	Pass
15KHz	20MHz	MCH	DFT-256QAM	17.72	18.21	18.35	11.45	33.00	Pass
15KHz	20MHz	MCH	CP-QPSK	21.30	21.61	21.60	14.71	33.00	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	23.08	22.44	23.00	16.18	33.00	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.16	22.56	23.02	16.26	33.00	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.22	21.51	22.11	15.32	33.00	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.63	20.09	20.62	13.73	33.00	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.06	17.73	18.35	11.45	33.00	Pass
15KHz	20MHz	HCH	CP-QPSK	21.65	21.09	21.48	14.75	33.00	Pass
15KHz	25MHz	LCH	DFT-Pi2BPSK	22.80	22.87	22.63	15.97	33.00	Pass
15KHz	25MHz	LCH	DFT-QPSK	22.77	22.82	22.72	15.92	33.00	Pass
15KHz	25MHz	LCH	DFT-16QAM	21.91	21.87	21.69	15.01	33.00	Pass
15KHz	25MHz	LCH	DFT-64QAM	20.34	20.41	20.24	13.51	33.00	Pass
15KHz	25MHz	LCH	DFT-256QAM	18.01	17.85	18.09	11.19	33.00	Pass
15KHz	25MHz	LCH	CP-QPSK	21.50	21.35	21.27	14.60	33.00	Pass
15KHz	25MHz	MCH	DFT-Pi2BPSK	22.85	23.30	23.26	16.40	33.00	Pass
15KHz	25MHz	MCH	DFT-QPSK	22.90	23.44	23.17	16.54	33.00	Pass
15KHz	25MHz	MCH	DFT-16QAM	22.01	22.34	22.23	15.44	33.00	Pass
15KHz	25MHz	MCH	DFT-64QAM	20.43	20.72	20.73	13.83	33.00	Pass
15KHz	25MHz	MCH	DFT-256QAM	17.87	18.16	18.39	11.49	33.00	Pass
15KHz	25MHz	MCH	CP-QPSK	21.48	21.87	21.73	14.97	33.00	Pass
15KHz	25MHz	HCH	DFT-Pi2BPSK	23.19	22.65	23.16	16.29	33.00	Pass
15KHz	25MHz	HCH	DFT-QPSK	23.24	22.64	23.18	16.34	33.00	Pass
15KHz	25MHz	HCH	DFT-16QAM	22.30	21.81	22.22	15.40	33.00	Pass
15KHz	25MHz	HCH	DFT-64QAM	20.69	20.35	20.74	13.84	33.00	Pass
15KHz	25MHz	HCH	DFT-256QAM	18.30	17.77	18.39	11.49	33.00	Pass
15KHz	25MHz	HCH	CP-QPSK	21.85	21.25	21.67	14.95	33.00	Pass
15KHz	30MHz	LCH	DFT-Pi2BPSK	22.72	22.97	22.68	16.07	33.00	Pass
15KHz	30MHz	LCH	DFT-QPSK	22.79	22.97	22.67	16.07	33.00	Pass
15KHz	30MHz	LCH	DFT-16QAM	21.96	22.12	21.71	15.22	33.00	Pass
15KHz	30MHz	LCH	DFT-64QAM	20.32	20.43	20.27	13.53	33.00	Pass
15KHz	30MHz	LCH	DFT-256QAM	17.78	17.93	18.08	11.18	33.00	Pass
15KHz	30MHz	LCH	CP-QPSK	21.40	21.64	21.26	14.74	33.00	Pass
15KHz	30MHz	MCH	DFT-Pi2BPSK	22.84	23.29	23.26	16.39	33.00	Pass
15KHz	30MHz	MCH	DFT-QPSK	22.86	23.28	23.19	16.38	33.00	Pass
15KHz	30MHz	MCH	DFT-16QAM	21.98	22.34	22.09	15.44	33.00	Pass
15KHz	30MHz	MCH	DFT-64QAM	20.28	20.67	20.74	13.84	33.00	Pass
15KHz	30MHz	MCH	DFT-256QAM	17.79	18.15	18.51	11.61	33.00	Pass
15KHz	30MHz	MCH	CP-QPSK	21.43	21.78	21.65	14.88	33.00	Pass
15KHz	30MHz	HCH	DFT-Pi2BPSK	23.27	22.53	23.15	16.37	33.00	Pass
15KHz	30MHz	HCH	DFT-QPSK	23.31	22.56	23.21	16.41	33.00	Pass
15KHz	30MHz	HCH	DFT-16QAM	22.40	21.75	22.17	15.50	33.00	Pass
15KHz	30MHz	HCH	DFT-64QAM	20.73	20.19	20.74	13.84	33.00	Pass
15KHz	30MHz	HCH	DFT-256QAM	18.20	17.80	18.48	11.58	33.00	Pass
15KHz	30MHz	HCH	CP-QPSK	21.89	21.29	21.65	14.99	33.00	Pass
15KHz	40MHz	LCH	DFT-Pi2BPSK	22.70	23.10	22.82	16.20	33.00	Pass
15KHz	40MHz	LCH	DFT-QPSK	22.78	23.24	22.96	16.34	33.00	Pass
15KHz	40MHz	LCH	DFT-16QAM	21.86	22.29	21.85	15.39	33.00	Pass
15KHz	40MHz	LCH	DFT-64QAM	20.31	20.70	20.39	13.80	33.00	Pass
15KHz	40MHz	LCH	DFT-256QAM	17.92	18.13	18.15	11.25	33.00	Pass
15KHz	40MHz	LCH	CP-QPSK	21.39	21.70	21.42	14.80	33.00	Pass
15KHz	40MHz	MCH	DFT-Pi2BPSK	22.75	23.15	23.06	16.25	33.00	Pass
15KHz	40MHz	MCH	DFT-QPSK	22.73	23.20	23.19	16.30	33.00	Pass
15KHz	40MHz	MCH	DFT-16QAM	21.75	22.27	22.24	15.37	33.00	Pass
15KHz	40MHz	MCH	DFT-64QAM	20.22	20.65	20.58	13.75	33.00	Pass
15KHz	40MHz	MCH	DFT-256QAM	17.73	18.25	18.41	11.51	33.00	Pass
15KHz	40MHz	MCH	CP-QPSK	21.25	21.70	21.66	14.80	33.00	Pass

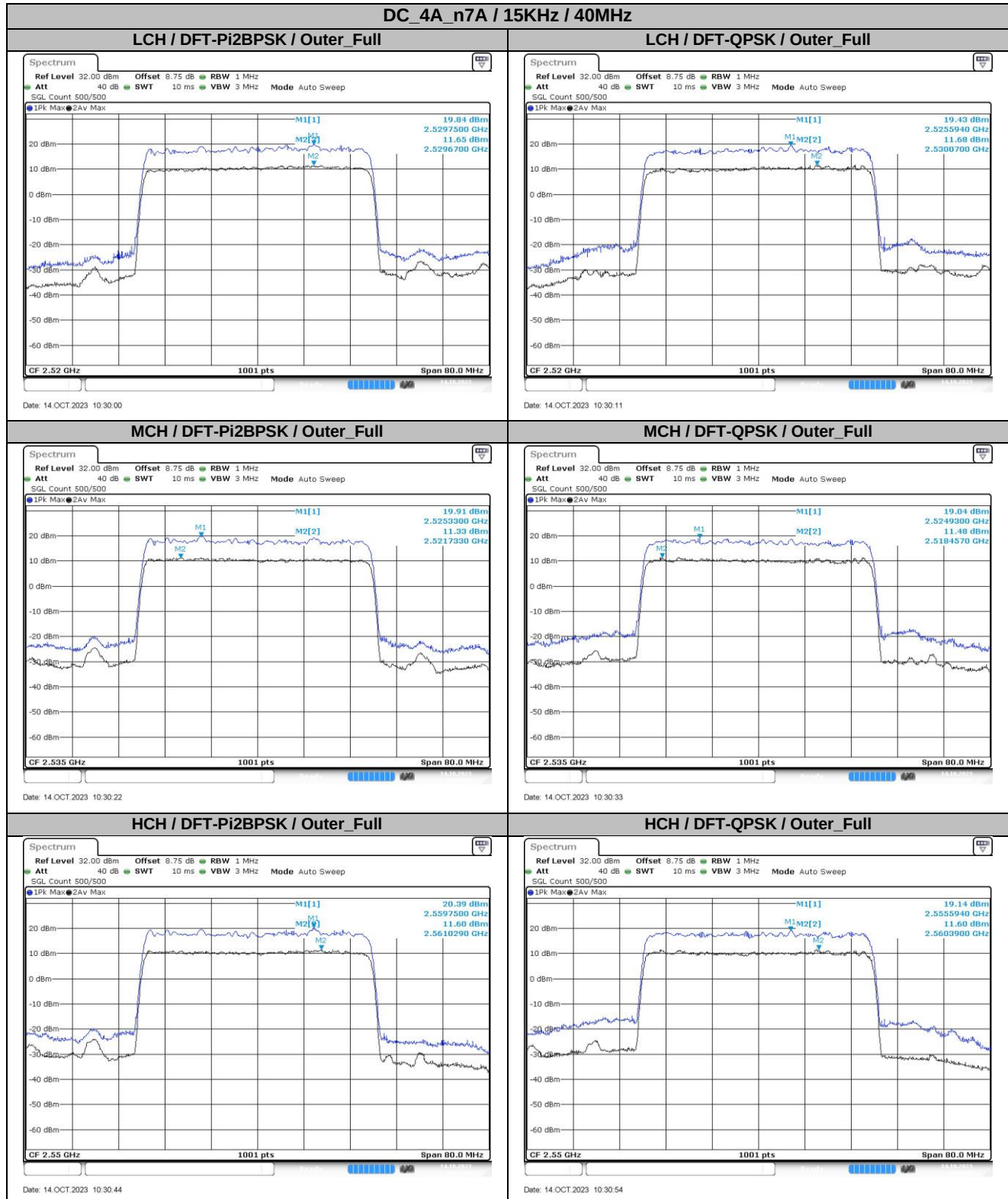
15KHz	40MHz	HCH	DFT-Pi2BPSK	23.04	22.51	23.25	16.35	33.00	Pass
15KHz	40MHz	HCH	DFT-QPSK	23.01	22.55	23.30	16.40	33.00	Pass
15KHz	40MHz	HCH	DFT-16QAM	22.10	21.60	22.31	15.41	33.00	Pass
15KHz	40MHz	HCH	DFT-64QAM	20.54	20.08	20.70	13.80	33.00	Pass
15KHz	40MHz	HCH	DFT-256QAM	18.09	17.82	18.51	11.61	33.00	Pass
15KHz	40MHz	HCH	CP-QPSK	21.53	21.12	21.75	14.85	33.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

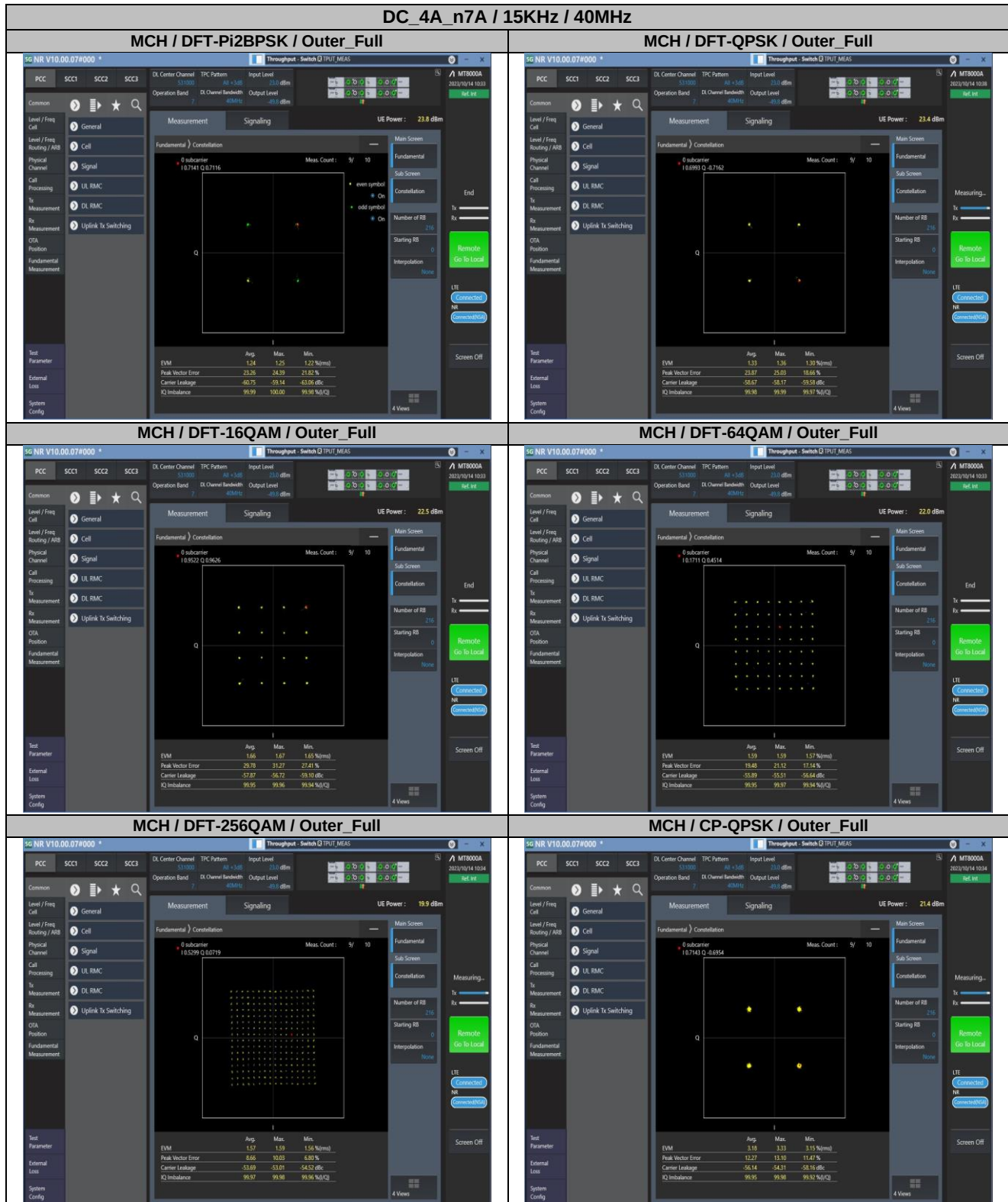
SCS	Bandwidth	Channel	Modulation	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	40MHz	LCH	Outer_Full	8.19	7.75	13.00	Pass
15KHz	40MHz	MCH	Outer_Full	8.58	7.55	13.00	Pass
15KHz	40MHz	HCH	Outer_Full	8.79	7.54	13.00	Pass

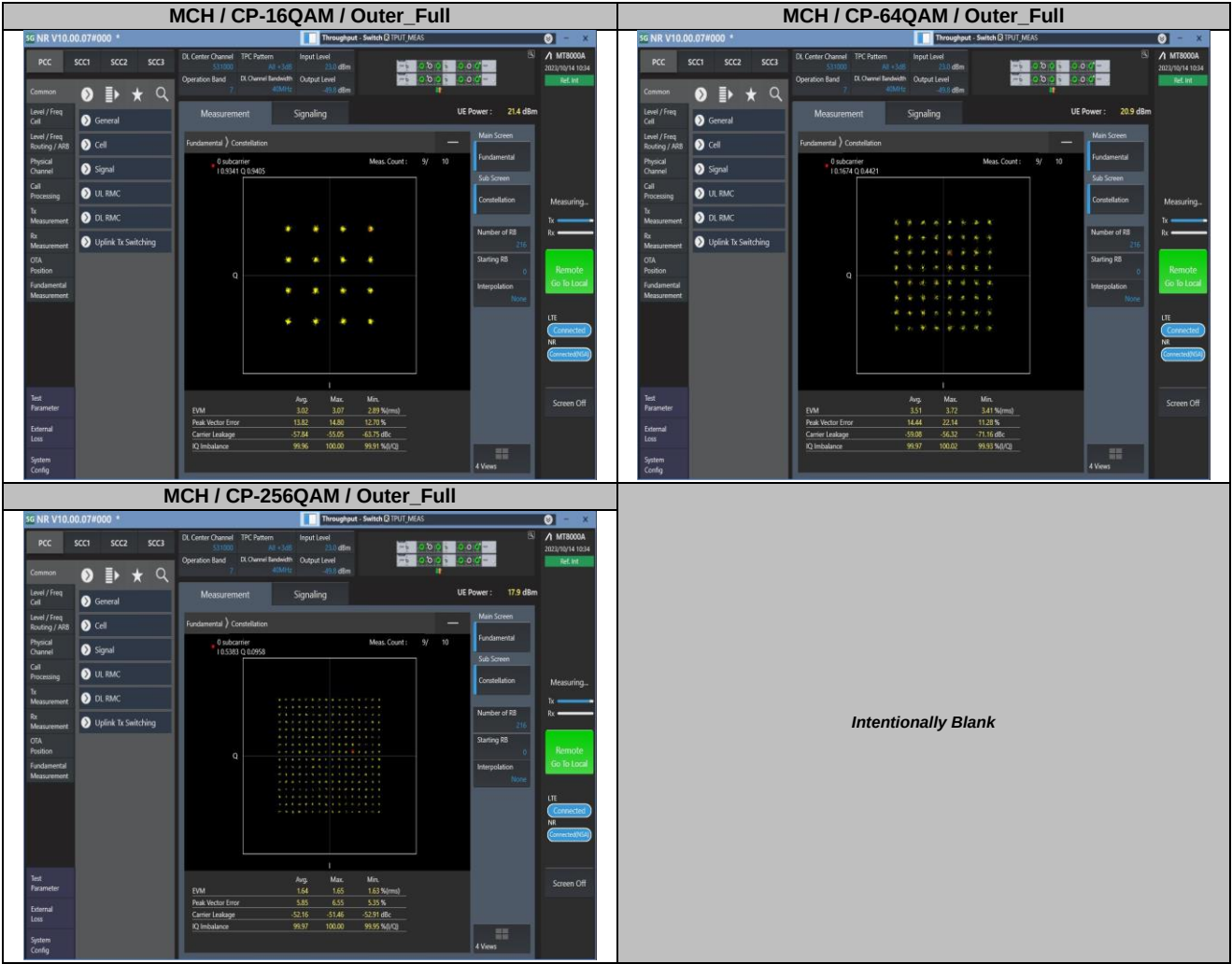
2.2. Test Plots



3. Modulation Characteristics

3.1. Test Plots



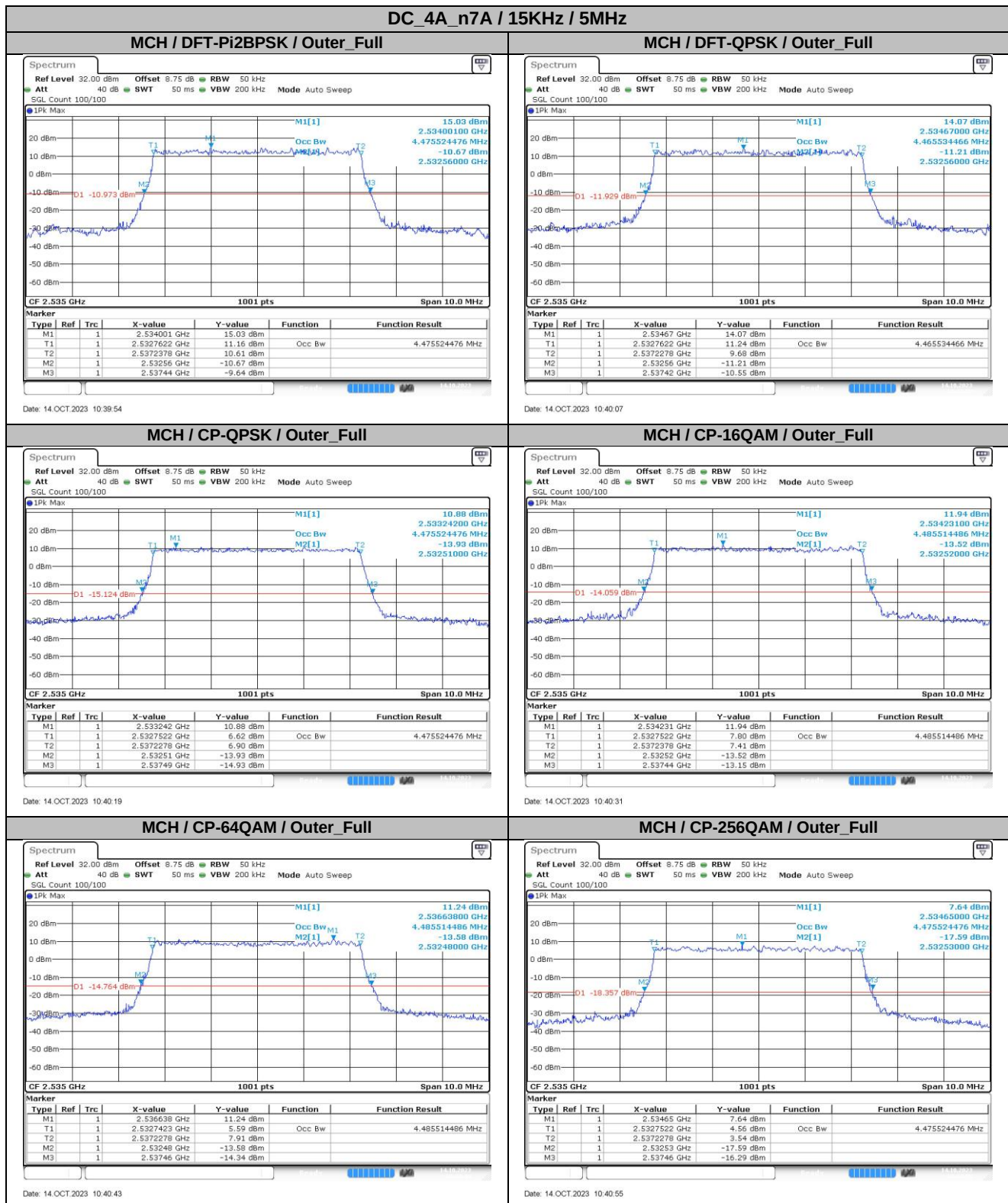


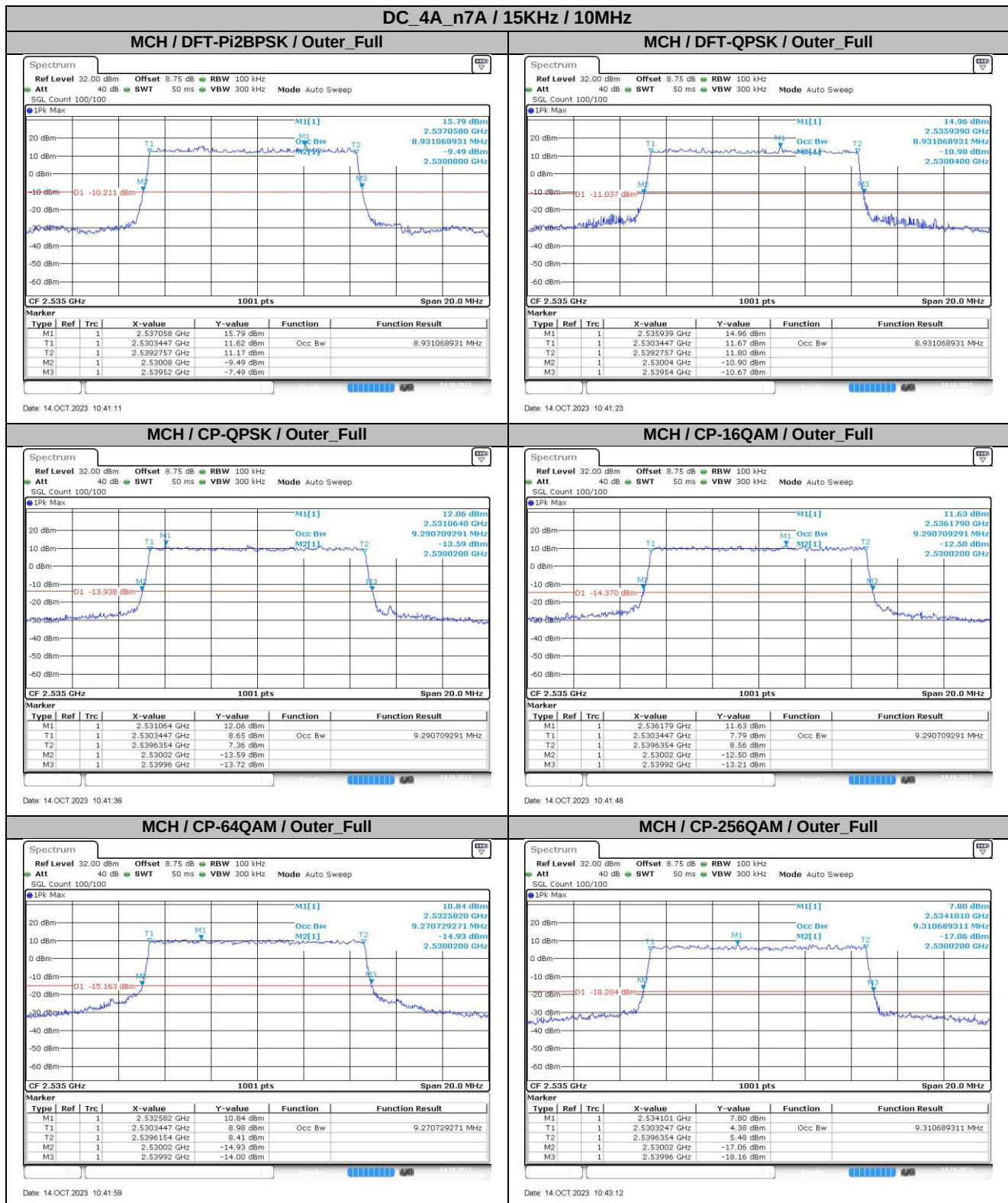
4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

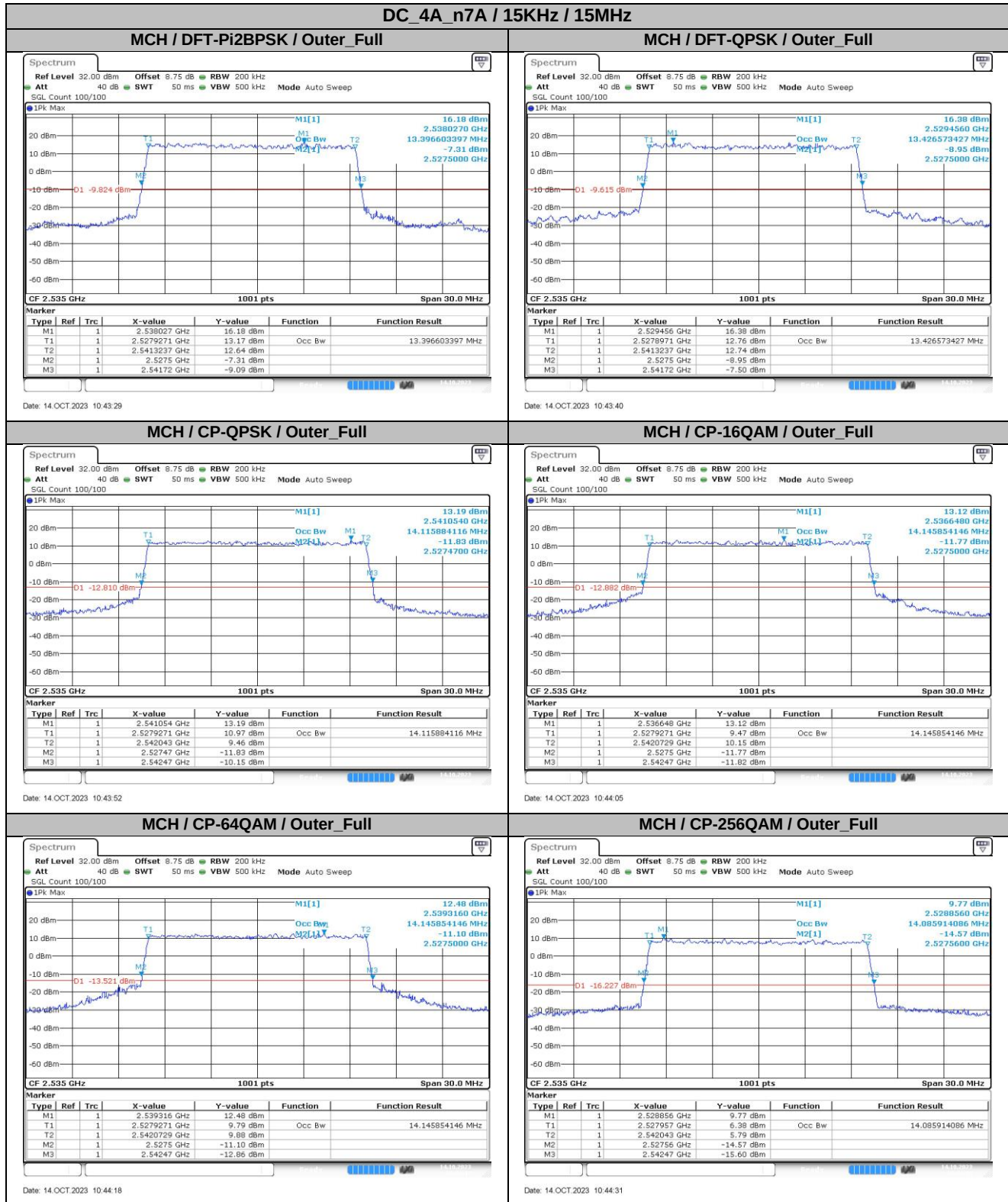
4.1. Test Results

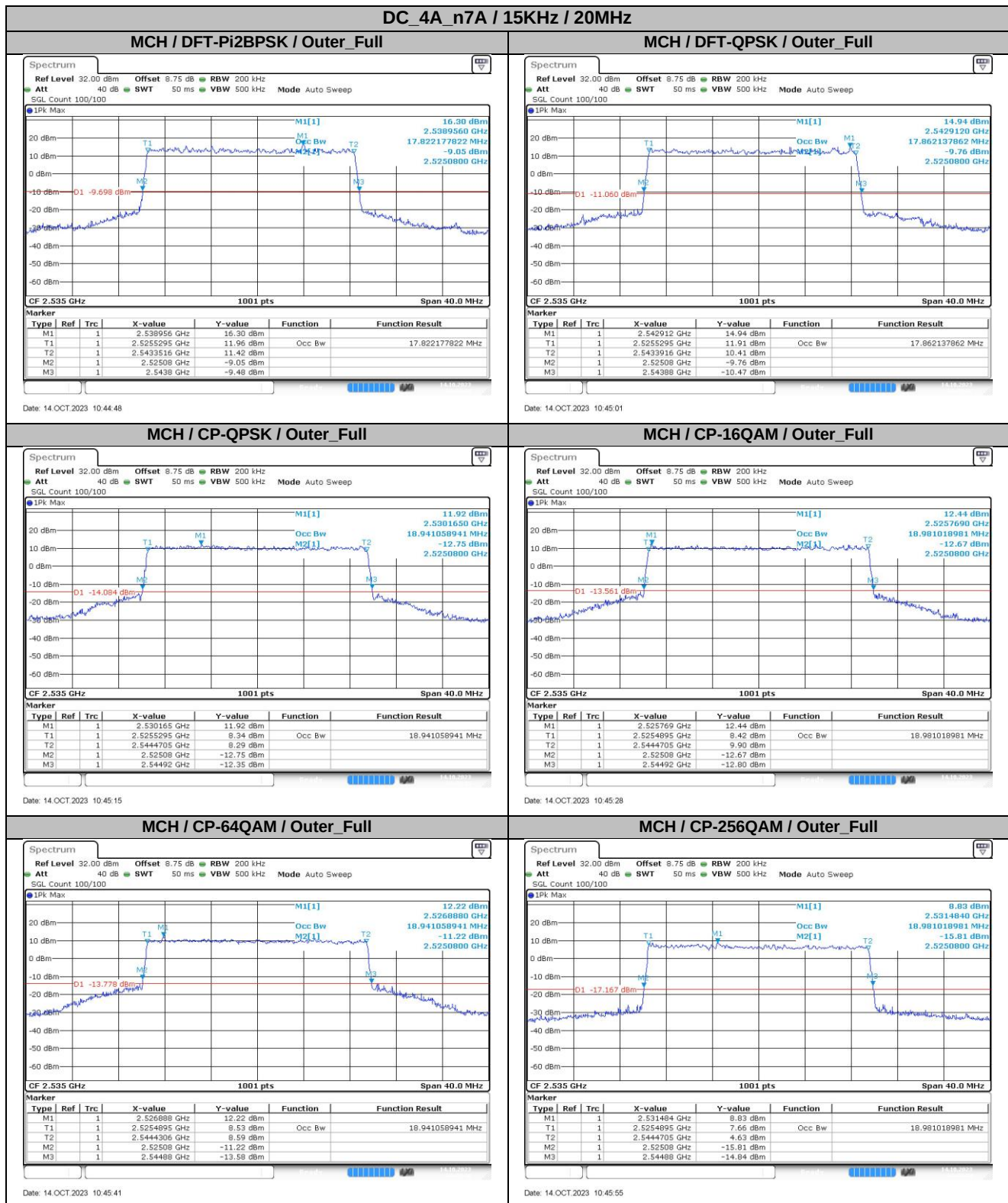
SCS	Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
15KHz	5MHz	DFT-Pi2BPSK	Outer_Full	4.48	4.88	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.47	4.86	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.48	4.98	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.49	4.92	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.49	4.98	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.48	4.93	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.93	9.44	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.93	9.50	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.29	9.94	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.29	9.90	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.27	9.90	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.31	9.94	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.40	14.22	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.43	14.22	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.12	15.00	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.15	14.97	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.15	14.97	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.09	14.91	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.82	18.72	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.86	18.80	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.94	19.84	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	18.98	19.84	Pass
15KHz	20MHz	CP-64QAM	Outer_Full	18.94	19.80	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	18.98	19.80	Pass
15KHz	25MHz	DFT-Pi2BPSK	Outer_Full	22.83	23.90	Pass
15KHz	25MHz	DFT-QPSK	Outer_Full	22.83	23.85	Pass
15KHz	25MHz	CP-QPSK	Outer_Full	23.73	24.85	Pass
15KHz	25MHz	CP-16QAM	Outer_Full	23.73	24.90	Pass
15KHz	25MHz	CP-64QAM	Outer_Full	23.73	24.85	Pass
15KHz	25MHz	CP-256QAM	Outer_Full	23.73	24.80	Pass
15KHz	30MHz	DFT-Pi2BPSK	Outer_Full	28.59	29.70	Pass
15KHz	30MHz	DFT-QPSK	Outer_Full	28.47	29.70	Pass
15KHz	30MHz	CP-QPSK	Outer_Full	28.47	29.76	Pass
15KHz	30MHz	CP-16QAM	Outer_Full	28.53	29.70	Pass
15KHz	30MHz	CP-64QAM	Outer_Full	28.53	29.70	Pass
15KHz	30MHz	CP-256QAM	Outer_Full	28.59	29.70	Pass
15KHz	40MHz	DFT-Pi2BPSK	Outer_Full	38.52	40.16	Pass
15KHz	40MHz	DFT-QPSK	Outer_Full	38.52	40.08	Pass
15KHz	40MHz	CP-QPSK	Outer_Full	38.52	40.08	Pass
15KHz	40MHz	CP-16QAM	Outer_Full	38.52	40.00	Pass
15KHz	40MHz	CP-64QAM	Outer_Full	38.68	40.00	Pass
15KHz	40MHz	CP-256QAM	Outer_Full	38.52	40.00	Pass

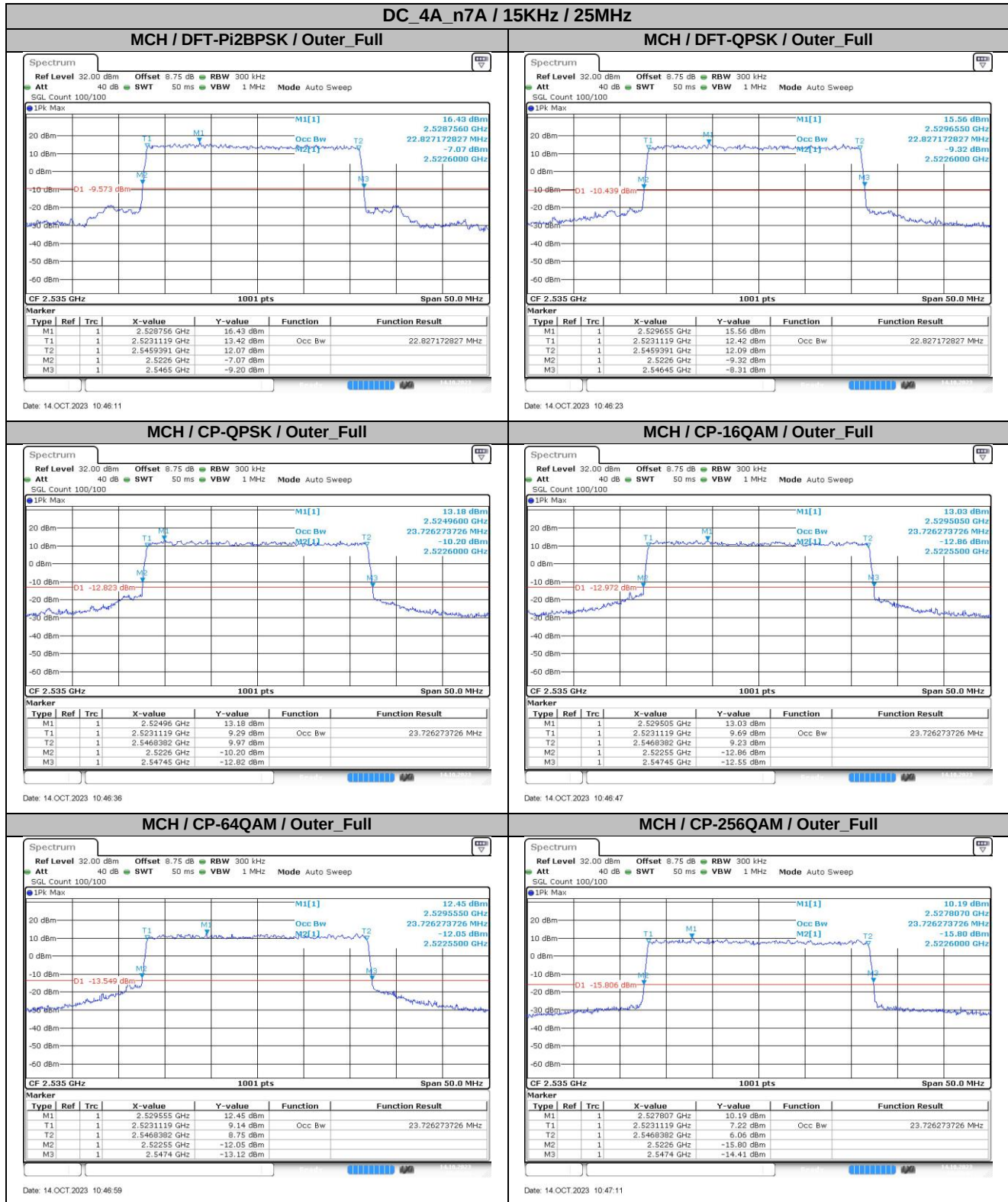
4.2. Test Plots

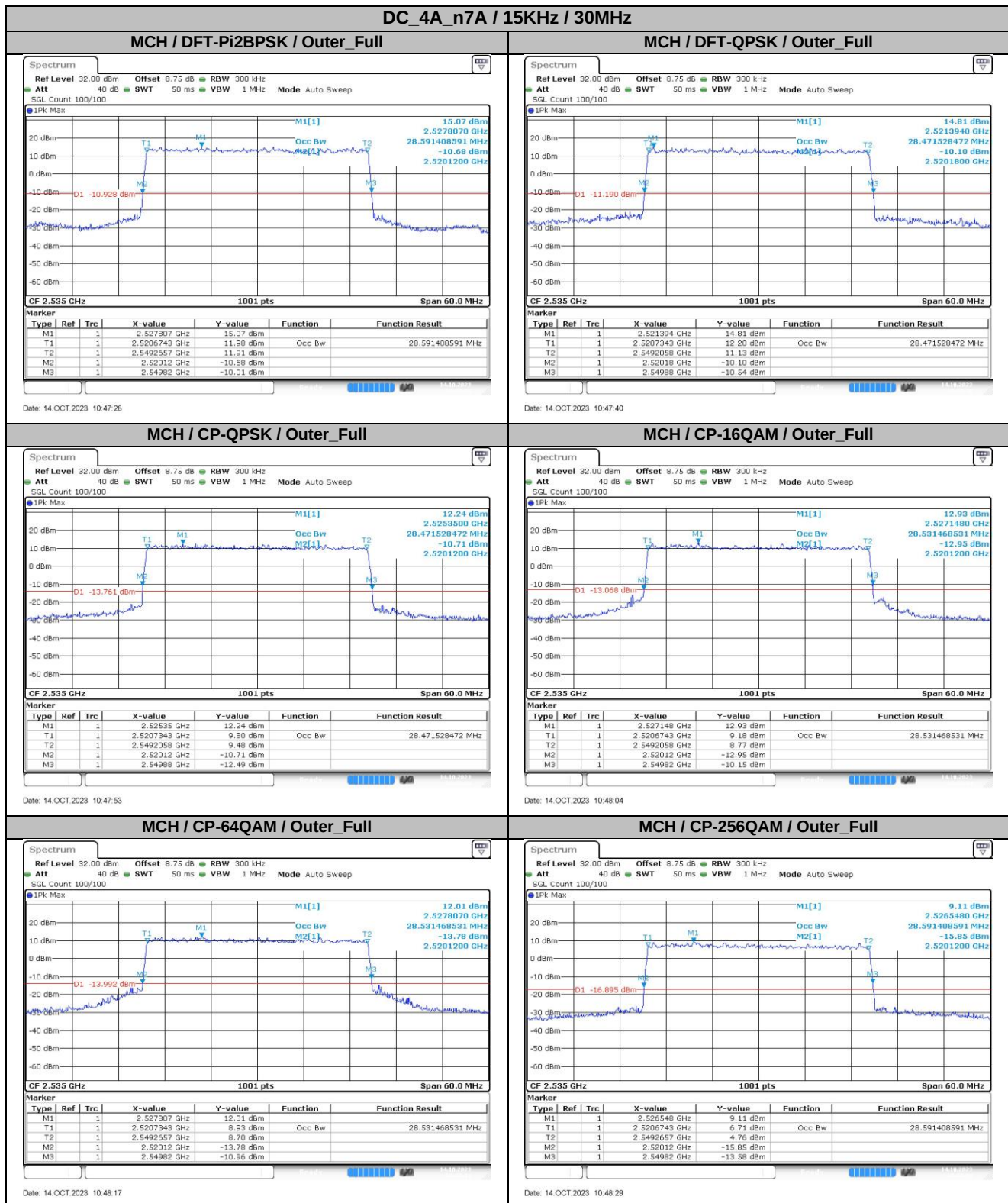


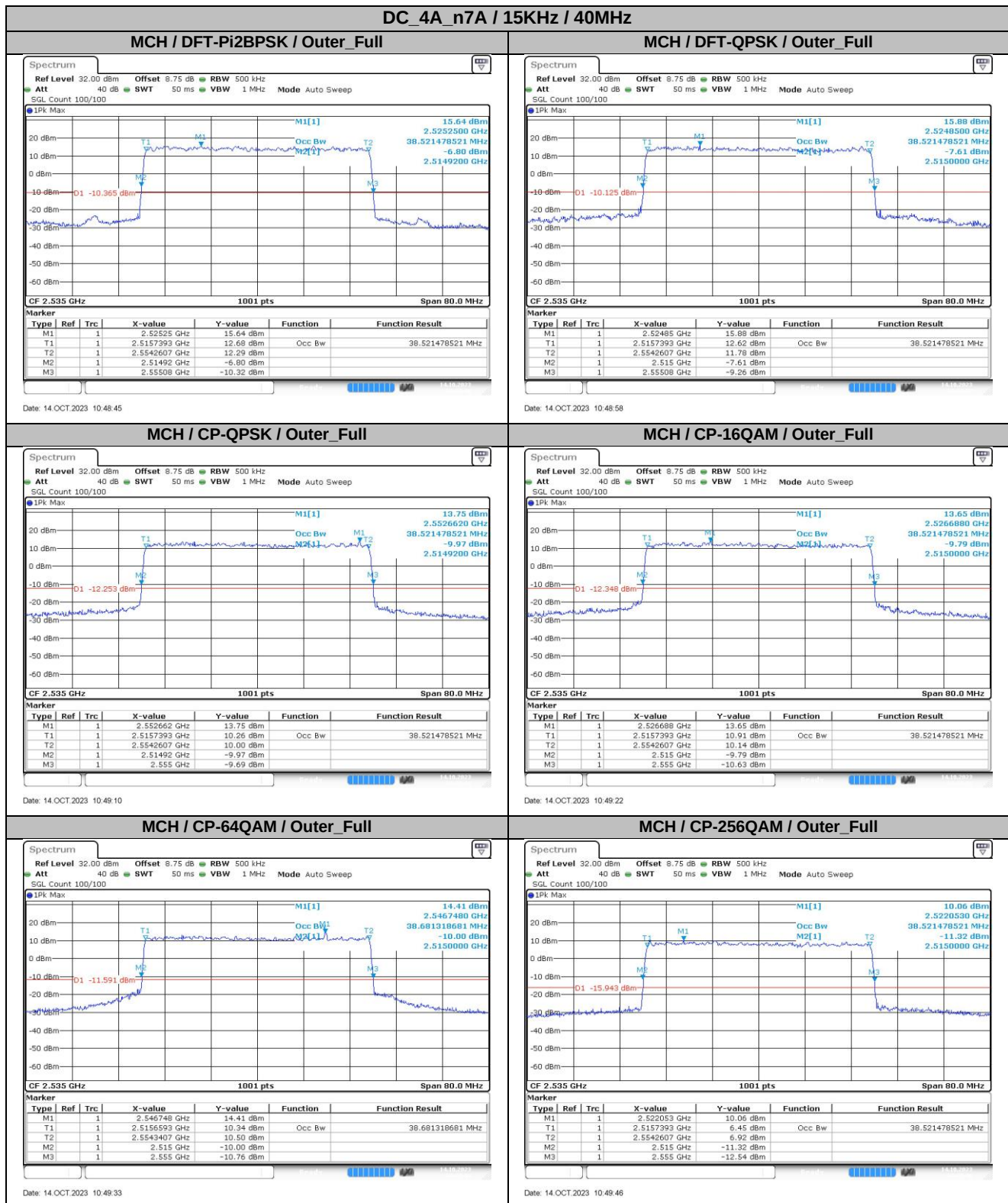












5. Conducted Band Edges

5.1. Test Plots

5.1.1. Bandwidth:5MHz

