

Appendix for DC_4A_n2A (1850-1910)

Catalogue

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1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant4 (Antenna Gain=-3.90dBi)

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	23.20	23.19	23.28	19.38	33.00	Pass
15KHz	5MHz	LCH	DFT-QPSK	23.11	23.18	23.24	19.34	33.00	Pass
15KHz	5MHz	LCH	DFT-16QAM	22.35	22.36	22.23	18.46	33.00	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.79	20.80	20.80	16.90	33.00	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.68	18.69	18.82	14.92	33.00	Pass
15KHz	5MHz	LCH	CP-QPSK	21.48	21.55	21.77	17.87	33.00	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	23.11	23.14	23.19	19.29	33.00	Pass
15KHz	5MHz	MCH	DFT-QPSK	23.08	23.07	23.18	19.28	33.00	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.36	22.32	22.14	18.46	33.00	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.79	20.76	20.69	16.89	33.00	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.60	18.60	18.66	14.76	33.00	Pass
15KHz	5MHz	MCH	CP-QPSK	21.38	21.47	21.66	17.76	33.00	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	23.27	23.34	23.40	19.50	33.00	Pass
15KHz	5MHz	HCH	DFT-QPSK	23.27	23.26	23.40	19.50	33.00	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.48	22.56	22.40	18.66	33.00	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.98	21.01	20.92	17.11	33.00	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.79	18.91	18.95	15.05	33.00	Pass
15KHz	5MHz	HCH	CP-QPSK	21.60	21.69	21.91	18.01	33.00	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	23.18	23.20	23.18	19.30	33.00	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.12	23.16	23.18	19.28	33.00	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.29	22.37	22.16	18.47	33.00	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.82	20.85	20.72	16.95	33.00	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.67	18.67	18.61	14.77	33.00	Pass
15KHz	10MHz	LCH	CP-QPSK	21.50	21.54	21.63	17.73	33.00	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	23.11	23.15	23.10	19.25	33.00	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.06	23.12	23.09	19.22	33.00	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.30	22.30	22.10	18.40	33.00	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.75	20.80	20.67	16.90	33.00	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.60	18.66	18.56	14.76	33.00	Pass
15KHz	10MHz	MCH	CP-QPSK	21.45	21.50	21.56	17.66	33.00	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.17	23.37	23.30	19.47	33.00	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.13	23.31	23.33	19.43	33.00	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.45	22.66	22.29	18.76	33.00	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.97	21.10	20.90	17.20	33.00	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.65	18.93	18.81	15.03	33.00	Pass
15KHz	10MHz	HCH	CP-QPSK	21.54	21.79	21.76	17.89	33.00	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.16	23.15	23.25	19.35	33.00	Pass
15KHz	15MHz	LCH	DFT-QPSK	23.10	23.07	23.23	19.33	33.00	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.34	22.28	22.23	18.44	33.00	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.79	20.79	20.73	16.89	33.00	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.64	18.66	18.71	14.81	33.00	Pass
15KHz	15MHz	LCH	CP-QPSK	21.48	21.53	21.72	17.82	33.00	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	23.10	23.17	23.15	19.27	33.00	Pass
15KHz	15MHz	MCH	DFT-QPSK	23.05	23.15	23.12	19.25	33.00	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.25	22.33	22.19	18.43	33.00	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.82	20.84	20.67	16.94	33.00	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.60	18.65	18.65	14.75	33.00	Pass
15KHz	15MHz	MCH	CP-QPSK	21.48	21.60	21.70	17.80	33.00	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	23.14	23.40	23.34	19.50	33.00	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.09	23.35	23.31	19.45	33.00	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.37	22.67	22.36	18.77	33.00	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.96	21.16	20.90	17.26	33.00	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.69	18.95	18.86	15.05	33.00	Pass
15KHz	15MHz	HCH	CP-QPSK	21.51	21.86	21.87	17.97	33.00	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	23.18	23.06	23.26	19.36	33.00	Pass
15KHz	20MHz	LCH	DFT-QPSK	23.07	23.02	23.24	19.34	33.00	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.28	22.23	22.25	18.38	33.00	Pass
15KHz	20MHz	LCH	DFT-64QAM	20.79	20.77	20.73	16.89	33.00	Pass
15KHz	20MHz	LCH	DFT-256QAM	18.64	18.56	18.72	14.82	33.00	Pass

15KHz	20MHz	LCH	CP-QPSK	21.48	21.44	21.71	17.81	33.00	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.04	23.20	23.18	19.30	33.00	Pass
15KHz	20MHz	MCH	DFT-QPSK	23.01	23.18	23.17	19.28	33.00	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.23	22.44	22.18	18.54	33.00	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.80	20.93	20.70	17.03	33.00	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.57	18.71	18.71	14.81	33.00	Pass
15KHz	20MHz	MCH	CP-QPSK	21.40	21.57	21.71	17.81	33.00	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	23.09	23.44	23.33	19.54	33.00	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.08	23.30	23.34	19.44	33.00	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.30	22.61	22.34	18.71	33.00	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.80	21.17	20.84	17.27	33.00	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.62	19.00	18.80	15.10	33.00	Pass
15KHz	20MHz	HCH	CP-QPSK	21.38	21.72	21.85	17.95	33.00	Pass
15KHz	25MHz	LCH	DFT-Pi2BPSK	23.15	23.02	23.10	19.25	33.00	Pass
15KHz	25MHz	LCH	DFT-QPSK	23.05	22.99	23.07	19.17	33.00	Pass
15KHz	25MHz	LCH	DFT-16QAM	22.24	22.22	22.04	18.34	33.00	Pass
15KHz	25MHz	LCH	DFT-64QAM	20.75	20.64	20.60	16.85	33.00	Pass
15KHz	25MHz	LCH	DFT-256QAM	18.60	18.53	18.55	14.70	33.00	Pass
15KHz	25MHz	LCH	CP-QPSK	21.46	21.44	21.57	17.67	33.00	Pass
15KHz	25MHz	MCH	DFT-Pi2BPSK	22.88	23.00	23.12	19.22	33.00	Pass
15KHz	25MHz	MCH	DFT-QPSK	22.89	23.02	23.13	19.23	33.00	Pass
15KHz	25MHz	MCH	DFT-16QAM	22.12	22.29	22.12	18.39	33.00	Pass
15KHz	25MHz	MCH	DFT-64QAM	20.60	20.72	20.69	16.82	33.00	Pass
15KHz	25MHz	MCH	DFT-256QAM	18.39	18.59	18.69	14.79	33.00	Pass
15KHz	25MHz	MCH	CP-QPSK	21.29	21.43	21.62	17.72	33.00	Pass
15KHz	25MHz	HCH	DFT-Pi2BPSK	22.96	23.47	23.24	19.57	33.00	Pass
15KHz	25MHz	HCH	DFT-QPSK	23.02	23.32	23.26	19.42	33.00	Pass
15KHz	25MHz	HCH	DFT-16QAM	22.25	22.48	22.26	18.58	33.00	Pass
15KHz	25MHz	HCH	DFT-64QAM	20.59	21.10	20.80	17.20	33.00	Pass
15KHz	25MHz	HCH	DFT-256QAM	18.58	19.05	18.79	15.15	33.00	Pass
15KHz	25MHz	HCH	CP-QPSK	21.07	21.54	21.78	17.88	33.00	Pass
15KHz	30MHz	LCH	DFT-Pi2BPSK	23.12	23.02	23.09	19.22	33.00	Pass
15KHz	30MHz	LCH	DFT-QPSK	22.16	22.99	23.08	19.18	33.00	Pass
15KHz	30MHz	LCH	DFT-16QAM	22.27	22.11	22.15	18.37	33.00	Pass
15KHz	30MHz	LCH	DFT-64QAM	20.78	20.68	20.61	16.88	33.00	Pass
15KHz	30MHz	LCH	DFT-256QAM	18.65	18.57	18.60	14.75	33.00	Pass
15KHz	30MHz	LCH	CP-QPSK	21.53	21.47	21.62	17.72	33.00	Pass
15KHz	30MHz	MCH	DFT-Pi2BPSK	22.86	23.06	23.16	19.26	33.00	Pass
15KHz	30MHz	MCH	DFT-QPSK	22.93	22.96	23.17	19.27	33.00	Pass
15KHz	30MHz	MCH	DFT-16QAM	22.02	22.38	22.22	18.48	33.00	Pass
15KHz	30MHz	MCH	DFT-64QAM	20.59	20.82	20.75	16.92	33.00	Pass
15KHz	30MHz	MCH	DFT-256QAM	18.48	18.65	18.68	14.78	33.00	Pass
15KHz	30MHz	MCH	CP-QPSK	21.25	21.57	21.71	17.81	33.00	Pass
15KHz	30MHz	HCH	DFT-Pi2BPSK	23.06	23.24	23.28	19.38	33.00	Pass
15KHz	30MHz	HCH	DFT-QPSK	22.93	23.07	23.29	19.39	33.00	Pass
15KHz	30MHz	HCH	DFT-16QAM	21.77	22.34	22.30	18.44	33.00	Pass
15KHz	30MHz	HCH	DFT-64QAM	20.25	21.08	20.83	17.18	33.00	Pass
15KHz	30MHz	HCH	DFT-256QAM	18.53	19.09	18.80	15.19	33.00	Pass
15KHz	30MHz	HCH	CP-QPSK	20.95	21.68	21.80	17.90	33.00	Pass
15KHz	35MHz	LCH	DFT-Pi2BPSK	23.04	23.05	23.05	19.15	33.00	Pass
15KHz	35MHz	LCH	DFT-QPSK	23.00	23.03	23.07	19.17	33.00	Pass
15KHz	35MHz	LCH	DFT-16QAM	22.20	22.22	22.09	18.32	33.00	Pass
15KHz	35MHz	LCH	DFT-64QAM	20.79	20.76	20.61	16.89	33.00	Pass
15KHz	35MHz	LCH	DFT-256QAM	18.55	18.60	18.59	14.70	33.00	Pass
15KHz	35MHz	LCH	CP-QPSK	21.48	21.55	21.70	17.80	33.00	Pass
15KHz	35MHz	MCH	DFT-Pi2BPSK	22.95	23.12	23.14	19.24	33.00	Pass
15KHz	35MHz	MCH	DFT-QPSK	22.93	23.01	23.15	19.25	33.00	Pass
15KHz	35MHz	MCH	DFT-16QAM	22.07	22.38	22.20	18.48	33.00	Pass
15KHz	35MHz	MCH	DFT-64QAM	20.42	20.87	20.70	16.97	33.00	Pass
15KHz	35MHz	MCH	DFT-256QAM	18.49	18.67	18.66	14.77	33.00	Pass
15KHz	35MHz	MCH	CP-QPSK	21.22	21.27	21.70	17.80	33.00	Pass
15KHz	35MHz	HCH	DFT-Pi2BPSK	22.99	23.30	23.30	19.40	33.00	Pass
15KHz	35MHz	HCH	DFT-QPSK	22.72	22.98	23.34	19.44	33.00	Pass
15KHz	35MHz	HCH	DFT-16QAM	21.72	22.21	22.35	18.45	33.00	Pass

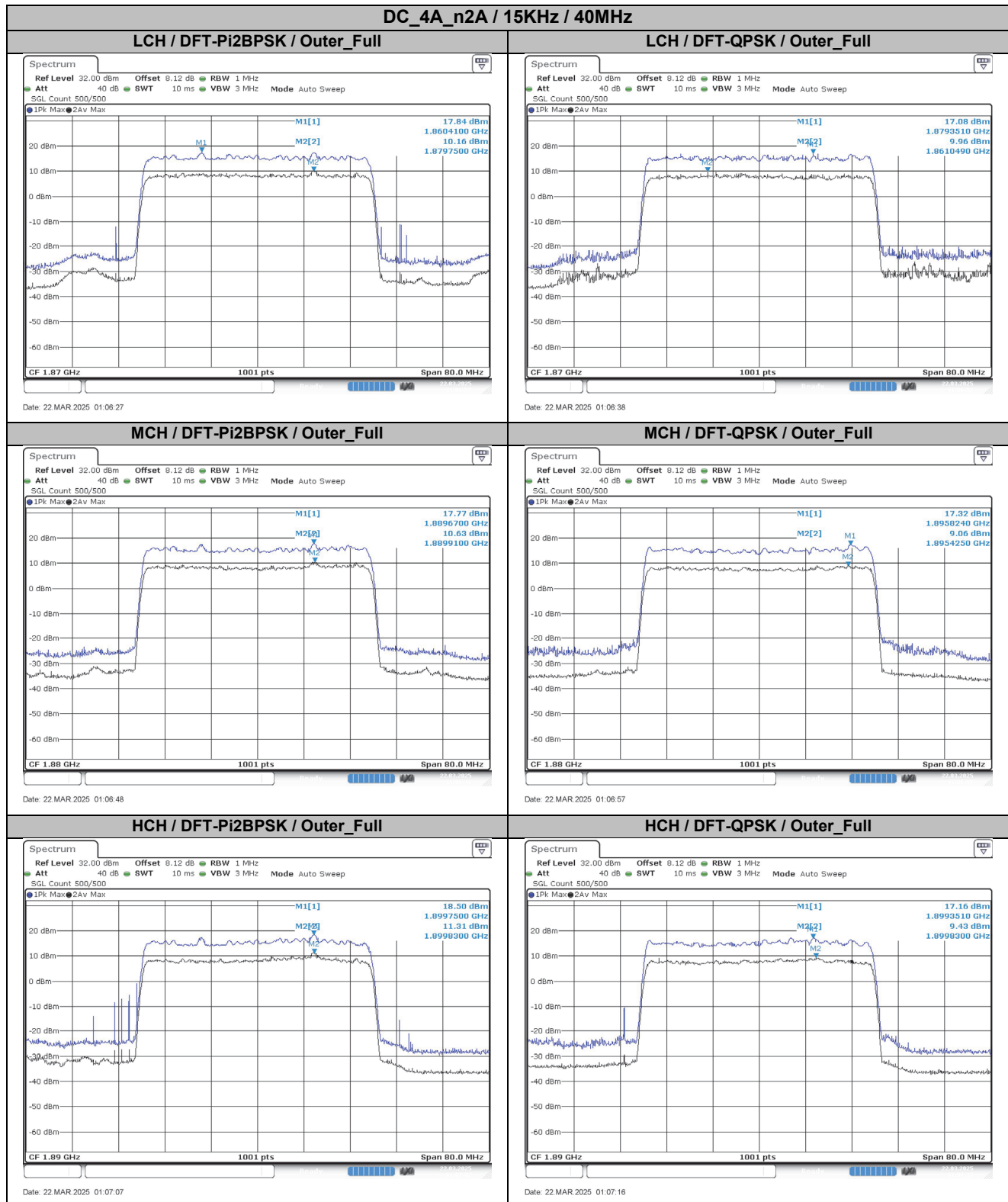
15KHz	35MHz	HCH	DFT-64QAM	20.55	20.73	20.84	16.94	33.00	Pass
15KHz	35MHz	HCH	DFT-256QAM	18.51	19.03	18.81	15.13	33.00	Pass
15KHz	35MHz	HCH	CP-QPSK	20.90	21.54	21.83	17.93	33.00	Pass
15KHz	40MHz	LCH	DFT-Pi2BPSK	23.07	23.09	23.06	19.19	33.00	Pass
15KHz	40MHz	LCH	DFT-QPSK	23.04	22.18	23.04	19.14	33.00	Pass
15KHz	40MHz	LCH	DFT-16QAM	22.31	22.28	22.14	18.41	33.00	Pass
15KHz	40MHz	LCH	DFT-64QAM	20.84	20.82	20.62	16.94	33.00	Pass
15KHz	40MHz	LCH	DFT-256QAM	18.66	18.64	18.64	14.76	33.00	Pass
15KHz	40MHz	LCH	CP-QPSK	21.51	21.60	21.64	17.74	33.00	Pass
15KHz	40MHz	MCH	DFT-Pi2BPSK	22.98	23.19	23.13	19.29	33.00	Pass
15KHz	40MHz	MCH	DFT-QPSK	22.97	23.15	23.17	19.27	33.00	Pass
15KHz	40MHz	MCH	DFT-16QAM	22.23	22.47	22.19	18.57	33.00	Pass
15KHz	40MHz	MCH	DFT-64QAM	20.70	20.72	20.71	16.82	33.00	Pass
15KHz	40MHz	MCH	DFT-256QAM	18.53	18.73	18.66	14.83	33.00	Pass
15KHz	40MHz	MCH	CP-QPSK	21.14	21.60	21.66	17.76	33.00	Pass
15KHz	40MHz	HCH	DFT-Pi2BPSK	22.89	23.24	23.32	19.42	33.00	Pass
15KHz	40MHz	HCH	DFT-QPSK	22.59	22.98	23.33	19.43	33.00	Pass
15KHz	40MHz	HCH	DFT-16QAM	22.03	22.62	22.33	18.72	33.00	Pass
15KHz	40MHz	HCH	DFT-64QAM	20.34	20.91	20.83	17.01	33.00	Pass
15KHz	40MHz	HCH	DFT-256QAM	18.51	19.06	18.81	15.16	33.00	Pass
15KHz	40MHz	HCH	CP-QPSK	21.08	21.62	21.81	17.91	33.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

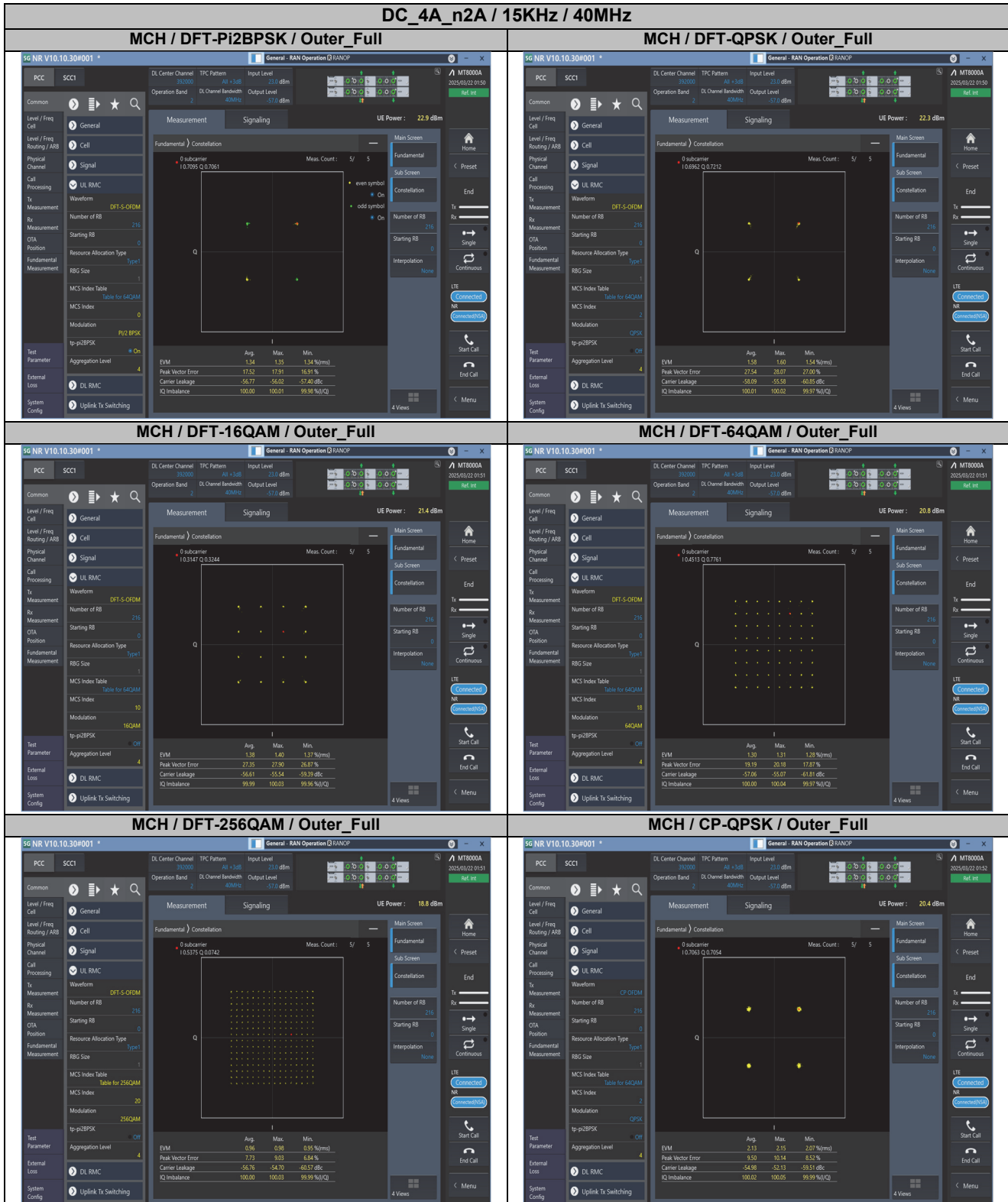
SCS	Bandwidth	Channel	RB	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	40MHz	LCH	Outer_Full	7.68	7.11	13.00	Pass
15KHz	40MHz	MCH	Outer_Full	7.14	8.26	13.00	Pass
15KHz	40MHz	HCH	Outer_Full	7.19	7.73	13.00	Pass

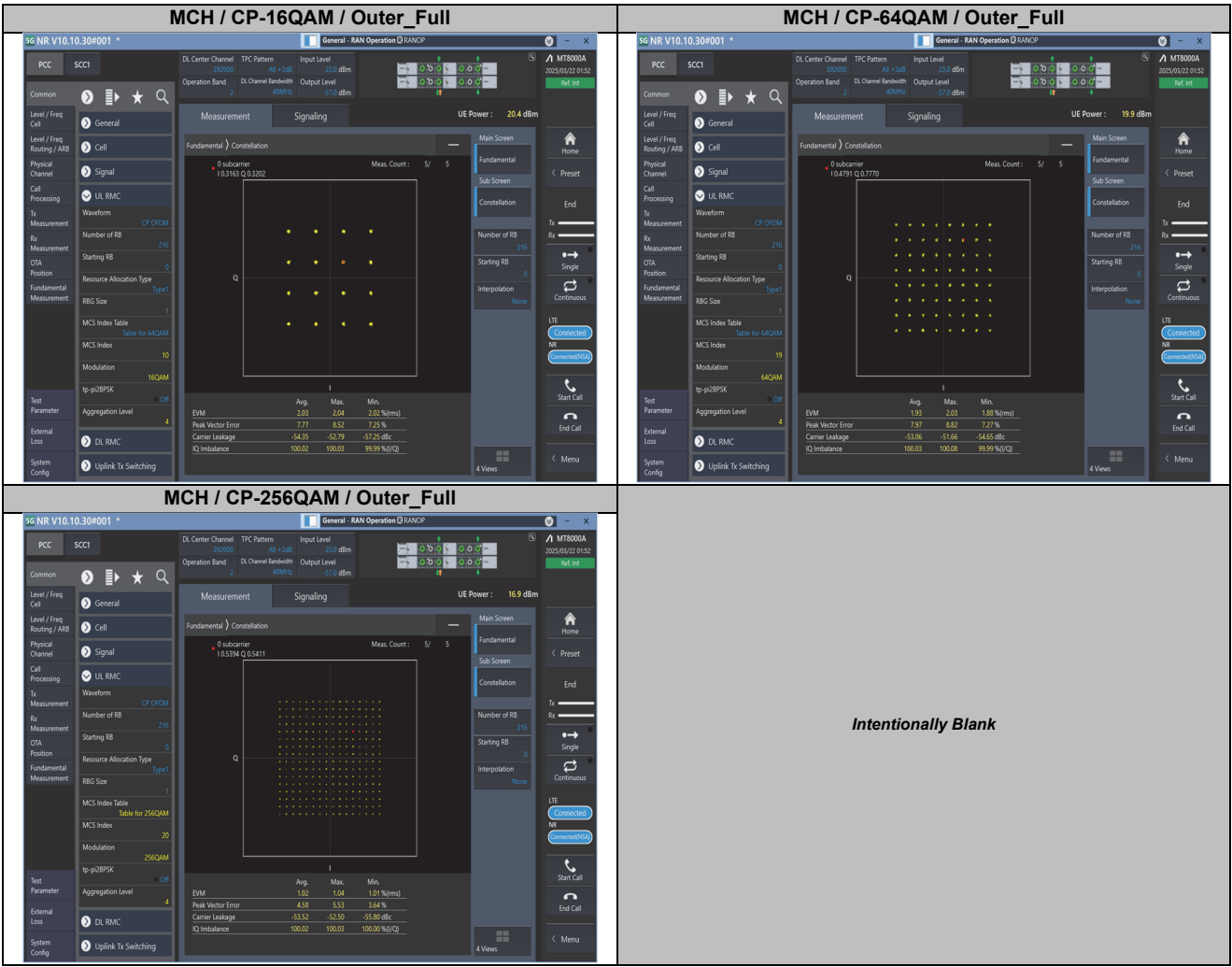
2.2. Test Plots for SCS=15KHz



3. Modulation Characteristics

3.1. Test Plots for SCS=15KHz



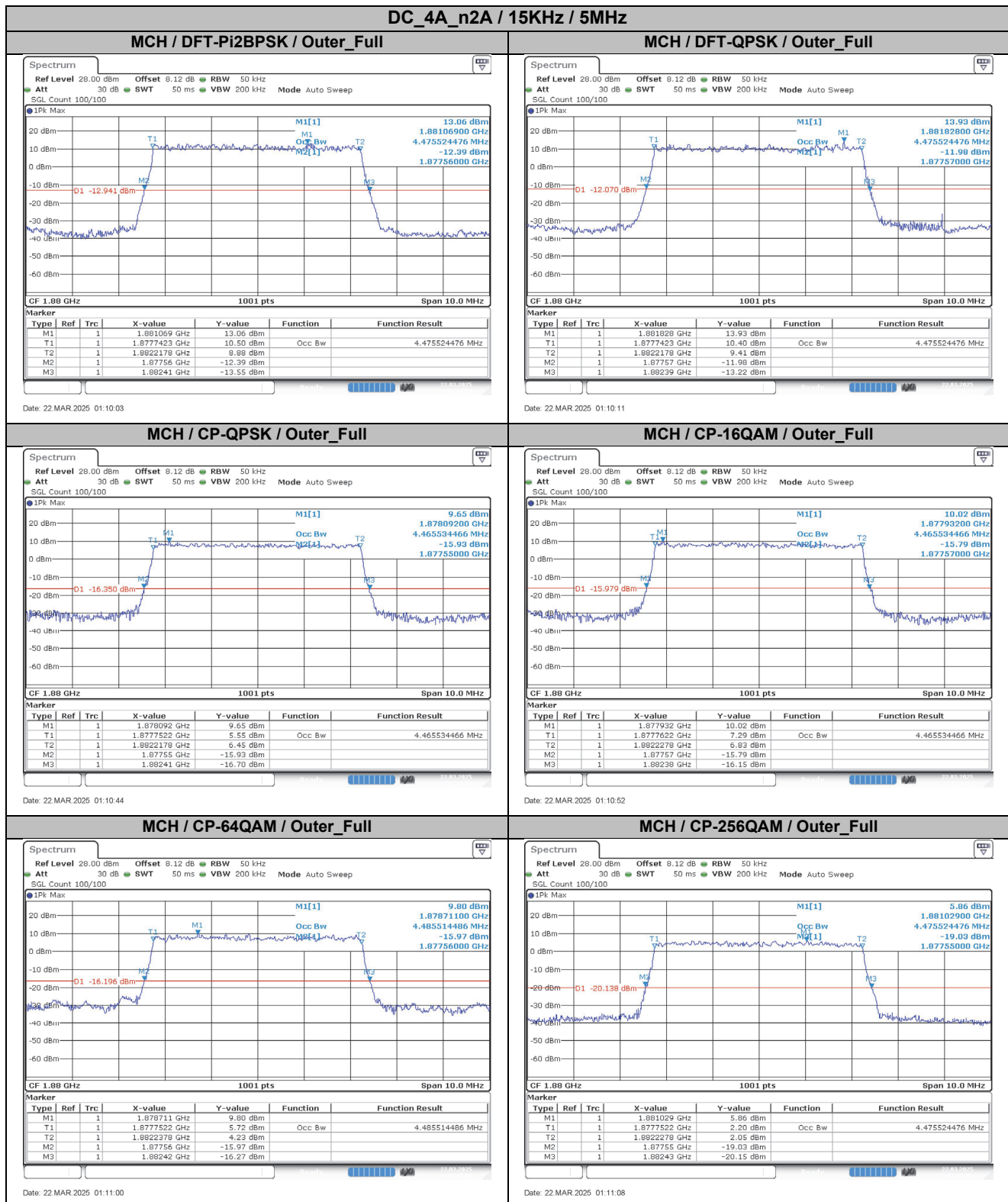


4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

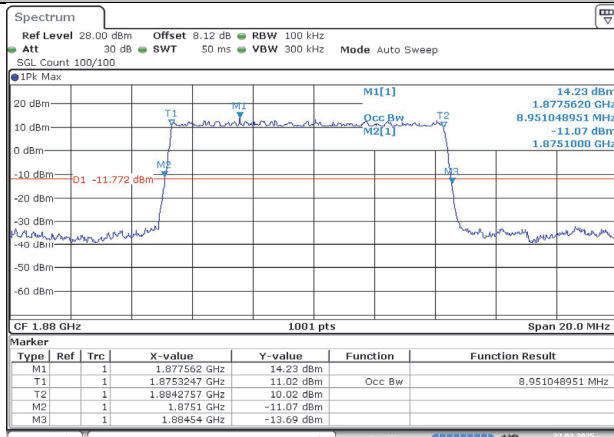
SCS	Bandwidth	Modulation	RB	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
15KHz	5MHz	DFT-Pi2BPSK	Outer_Full	4.48	4.85	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.48	4.82	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.47	4.86	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.47	4.81	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.49	4.86	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.48	4.88	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.95	9.44	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.91	9.36	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.29	9.80	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.29	9.78	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.29	9.80	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.27	9.76	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.43	14.19	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.43	14.10	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.09	14.85	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.12	14.91	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.15	14.88	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.09	14.85	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.90	18.76	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.82	18.68	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.90	19.80	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	18.94	19.76	Pass
15KHz	20MHz	CP-64QAM	Outer_Full	18.94	19.76	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	18.90	19.80	Pass
15KHz	25MHz	DFT-Pi2BPSK	Outer_Full	22.88	23.80	Pass
15KHz	25MHz	DFT-QPSK	Outer_Full	22.88	23.90	Pass
15KHz	25MHz	CP-QPSK	Outer_Full	23.73	24.75	Pass
15KHz	25MHz	CP-16QAM	Outer_Full	23.73	24.80	Pass
15KHz	25MHz	CP-64QAM	Outer_Full	23.78	24.80	Pass
15KHz	25MHz	CP-256QAM	Outer_Full	23.68	24.75	Pass
15KHz	30MHz	DFT-Pi2BPSK	Outer_Full	28.65	29.76	Pass
15KHz	30MHz	DFT-QPSK	Outer_Full	28.59	29.94	Pass
15KHz	30MHz	CP-QPSK	Outer_Full	28.65	29.88	Pass
15KHz	30MHz	CP-16QAM	Outer_Full	28.53	29.88	Pass
15KHz	30MHz	CP-64QAM	Outer_Full	28.53	29.88	Pass
15KHz	30MHz	CP-256QAM	Outer_Full	28.53	30.06	Pass
15KHz	35MHz	DFT-Pi2BPSK	Outer_Full	32.24	33.81	Pass
15KHz	35MHz	DFT-QPSK	Outer_Full	32.24	33.88	Pass
15KHz	35MHz	CP-QPSK	Outer_Full	33.57	35.28	Pass
15KHz	35MHz	CP-16QAM	Outer_Full	33.64	35.07	Pass
15KHz	35MHz	CP-64QAM	Outer_Full	33.64	35.21	Pass
15KHz	35MHz	CP-256QAM	Outer_Full	33.50	35.21	Pass
15KHz	40MHz	DFT-Pi2BPSK	Outer_Full	38.60	40.32	Pass
15KHz	40MHz	DFT-QPSK	Outer_Full	38.60	40.16	Pass
15KHz	40MHz	CP-QPSK	Outer_Full	38.52	40.24	Pass
15KHz	40MHz	CP-16QAM	Outer_Full	38.60	40.32	Pass
15KHz	40MHz	CP-64QAM	Outer_Full	38.52	40.16	Pass
15KHz	40MHz	CP-256QAM	Outer_Full	38.60	40.24	Pass

4.2. Test Plots for SCS=15KHz



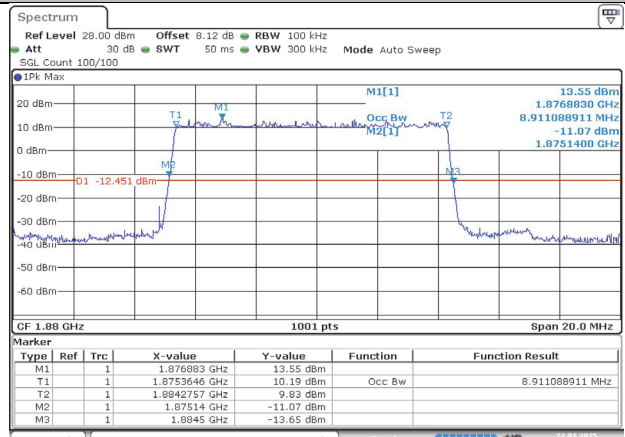
DC_4A_n2A / 15KHz / 10MHz

MCH / DFT-Pi2BPSK / Outer_Full



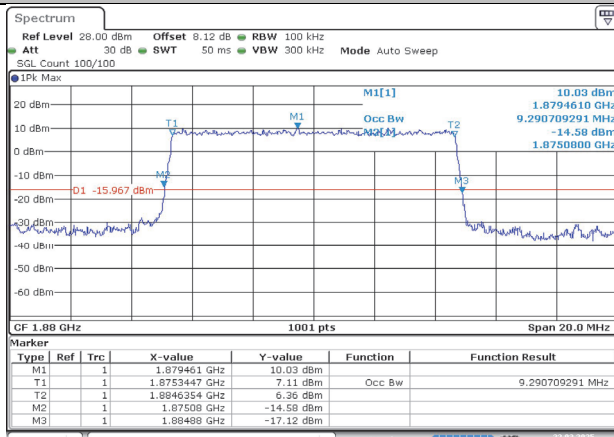
Date: 22 MAR 2025 01:11:21

MCH / DFT-QPSK / Outer_Full



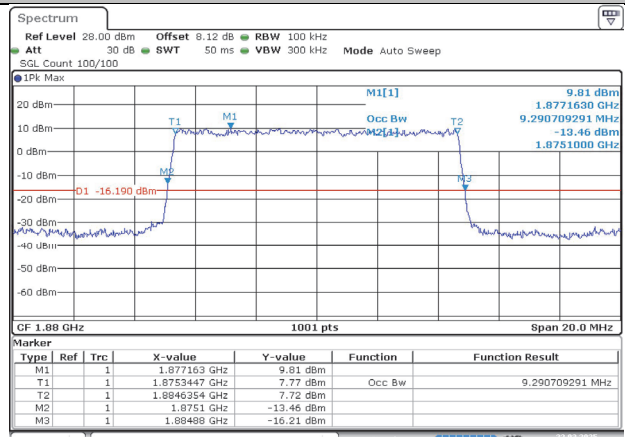
Date: 22 MAR 2025 01:11:30

MCH / CP-QPSK / Outer_Full



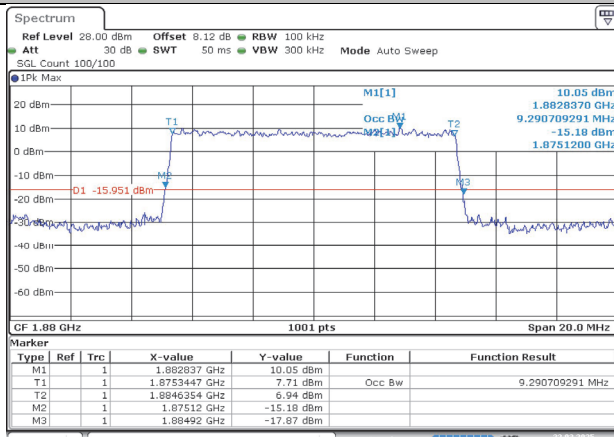
Date: 22 MAR 2025 01:12:07

MCH / CP-16QAM / Outer_Full



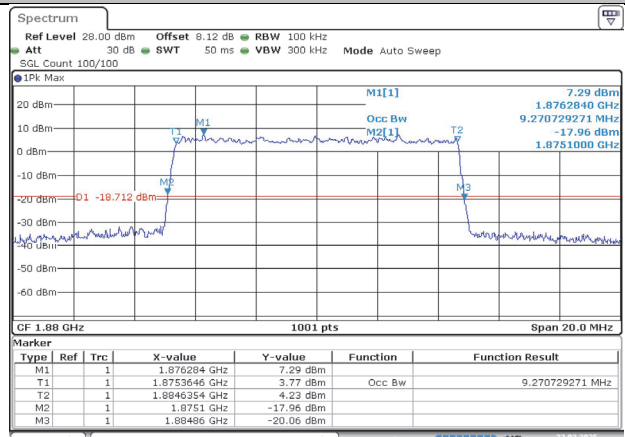
Date: 22 MAR 2025 01:12:15

MCH / CP-64QAM / Outer_Full



Date: 22 MAR 2025 01:12:24

MCH / CP-256QAM / Outer_Full



Date: 22 MAR 2025 01:12:33