

**Appendix
for
DC_7A_n2A
(1850-1910)**

Catalogue

- 1. EFFECTIVE ISOTROPIC RADIATED POWER 3
 - 1.1. TEST RESULTS @ ANT1 (ANTENNA GAIN=-1.50DBI)..... 3
- 2. PEAK-TO-AVERAGE RATIO 5
 - 2.1. TEST RESULTS 5
 - 2.2. TEST PLOTS..... 5
- 3. MODULATION CHARACTERISTICS 6
 - 3.1. TEST PLOTS..... 6
- 4. 99% OCCUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH 7
 - 4.1. TEST RESULTS 7
 - 4.2. TEST PLOTS..... 8
- 5. CONDUCTED BAND EDGES 12
 - 5.1. TEST PLOTS..... 12
- 6. CONDUCTED SPURIOUS EMISSION 17
 - 6.1. TEST PLOTS..... 17
- 7. FREQUENCY STABILITY 21
 - 7.1. TEST RESULTS 21

1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant1 (Antenna Gain=-1.50dBi)

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	23.52	23.38	23.60	22.10	30.00	Pass
15KHz	5MHz	LCH	DFT-QPSK	23.53	23.42	23.45	22.03	30.00	Pass
15KHz	5MHz	LCH	DFT-16QAM	22.64	22.60	22.55	21.14	30.00	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.90	20.84	21.10	19.60	30.00	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.71	18.52	19.00	17.50	30.00	Pass
15KHz	5MHz	LCH	CP-QPSK	22.03	21.90	21.96	20.53	30.00	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	23.26	23.14	23.32	21.82	30.00	Pass
15KHz	5MHz	MCH	DFT-QPSK	23.32	23.19	23.36	21.86	30.00	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.38	22.23	22.32	20.88	30.00	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.76	20.58	20.96	19.46	30.00	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.44	18.34	18.70	17.20	30.00	Pass
15KHz	5MHz	MCH	CP-QPSK	21.78	21.69	21.74	20.28	30.00	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	23.27	23.29	23.29	21.79	30.00	Pass
15KHz	5MHz	HCH	DFT-QPSK	23.26	23.20	23.39	21.89	30.00	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.54	22.42	22.57	21.07	30.00	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.89	20.77	21.12	19.62	30.00	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.56	18.46	18.92	17.42	30.00	Pass
15KHz	5MHz	HCH	CP-QPSK	22.00	21.82	21.88	20.50	30.00	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	23.62	23.32	23.43	22.12	30.00	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.52	23.35	23.51	22.02	30.00	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.63	22.47	22.53	21.13	30.00	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.88	20.85	20.95	19.45	30.00	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.72	18.46	18.95	17.45	30.00	Pass
15KHz	10MHz	LCH	CP-QPSK	22.04	21.95	21.96	20.54	30.00	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	23.23	23.25	23.36	21.86	30.00	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.33	23.22	23.28	21.83	30.00	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.30	22.35	22.24	20.85	30.00	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.67	20.58	20.64	19.17	30.00	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.41	18.26	18.68	17.18	30.00	Pass
15KHz	10MHz	MCH	CP-QPSK	21.76	21.76	21.70	20.26	30.00	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.14	23.30	23.31	21.81	30.00	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.17	23.32	23.36	21.86	30.00	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.43	22.53	22.41	21.03	30.00	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.72	20.80	20.90	19.40	30.00	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.49	18.56	18.85	17.35	30.00	Pass
15KHz	10MHz	HCH	CP-QPSK	21.85	21.99	21.89	20.49	30.00	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.62	23.51	23.62	22.12	30.00	Pass
15KHz	15MHz	LCH	DFT-QPSK	23.63	23.53	23.64	22.14	30.00	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.77	22.64	22.75	21.27	30.00	Pass
15KHz	15MHz	LCH	DFT-64QAM	21.15	21.01	21.25	19.75	30.00	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.86	18.66	19.08	17.58	30.00	Pass
15KHz	15MHz	LCH	CP-QPSK	22.25	21.95	22.17	20.75	30.00	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	23.31	23.35	23.42	21.92	30.00	Pass
15KHz	15MHz	MCH	DFT-QPSK	23.39	23.32	23.41	21.91	30.00	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.42	22.55	22.35	21.05	30.00	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.82	20.77	20.89	19.39	30.00	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.51	18.49	18.76	17.26	30.00	Pass
15KHz	15MHz	MCH	CP-QPSK	21.97	21.88	21.89	20.47	30.00	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	23.24	23.41	23.45	21.95	30.00	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.35	23.48	23.45	21.98	30.00	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.43	22.63	22.51	21.13	30.00	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.81	20.90	21.05	19.55	30.00	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.53	18.64	18.92	17.42	30.00	Pass
15KHz	15MHz	HCH	CP-QPSK	21.86	21.93	21.96	20.46	30.00	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	23.70	23.48	23.67	22.20	30.00	Pass
15KHz	20MHz	LCH	DFT-QPSK	23.69	23.51	23.68	22.19	30.00	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.81	22.61	22.72	21.31	30.00	Pass
15KHz	20MHz	LCH	DFT-64QAM	21.10	20.95	21.18	19.68	30.00	Pass

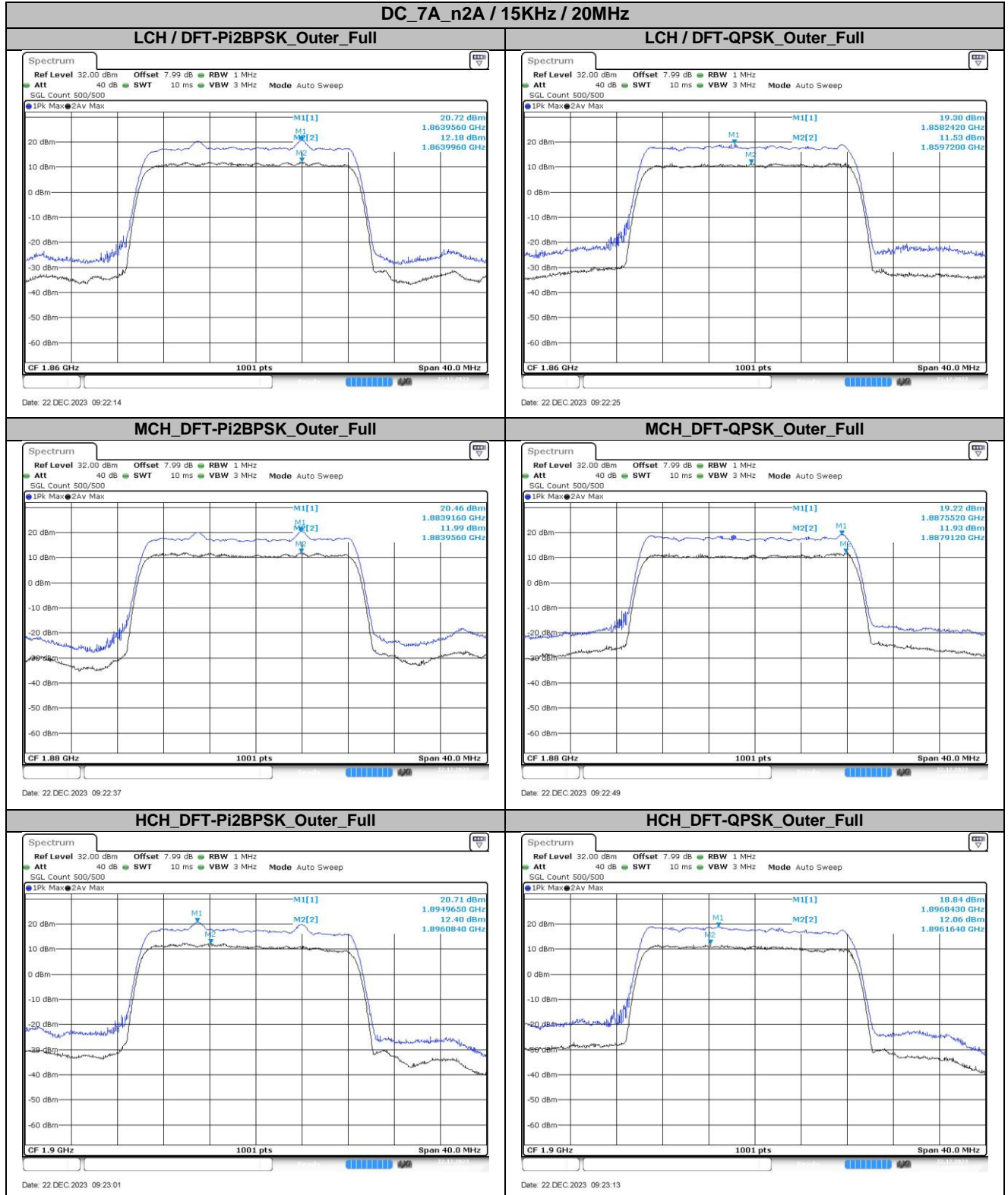
15KHz	20MHz	LCH	DFT-256QAM	18.86	18.57	19.06	17.56	30.00	Pass
15KHz	20MHz	LCH	CP-QPSK	22.30	21.93	22.15	20.80	30.00	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.33	23.25	23.36	21.86	30.00	Pass
15KHz	20MHz	MCH	DFT-QPSK	23.48	23.32	23.35	21.98	30.00	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.47	22.41	22.42	20.97	30.00	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.78	20.80	20.94	19.44	30.00	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.61	18.41	18.84	17.34	30.00	Pass
15KHz	20MHz	MCH	CP-QPSK	21.92	21.85	21.93	20.43	30.00	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	23.21	23.52	23.46	22.02	30.00	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.28	23.49	23.42	21.99	30.00	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.36	22.53	22.48	21.03	30.00	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.67	20.89	21.00	19.50	30.00	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.47	18.69	18.88	17.38	30.00	Pass
15KHz	20MHz	HCH	CP-QPSK	21.81	22.00	21.95	20.50	30.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

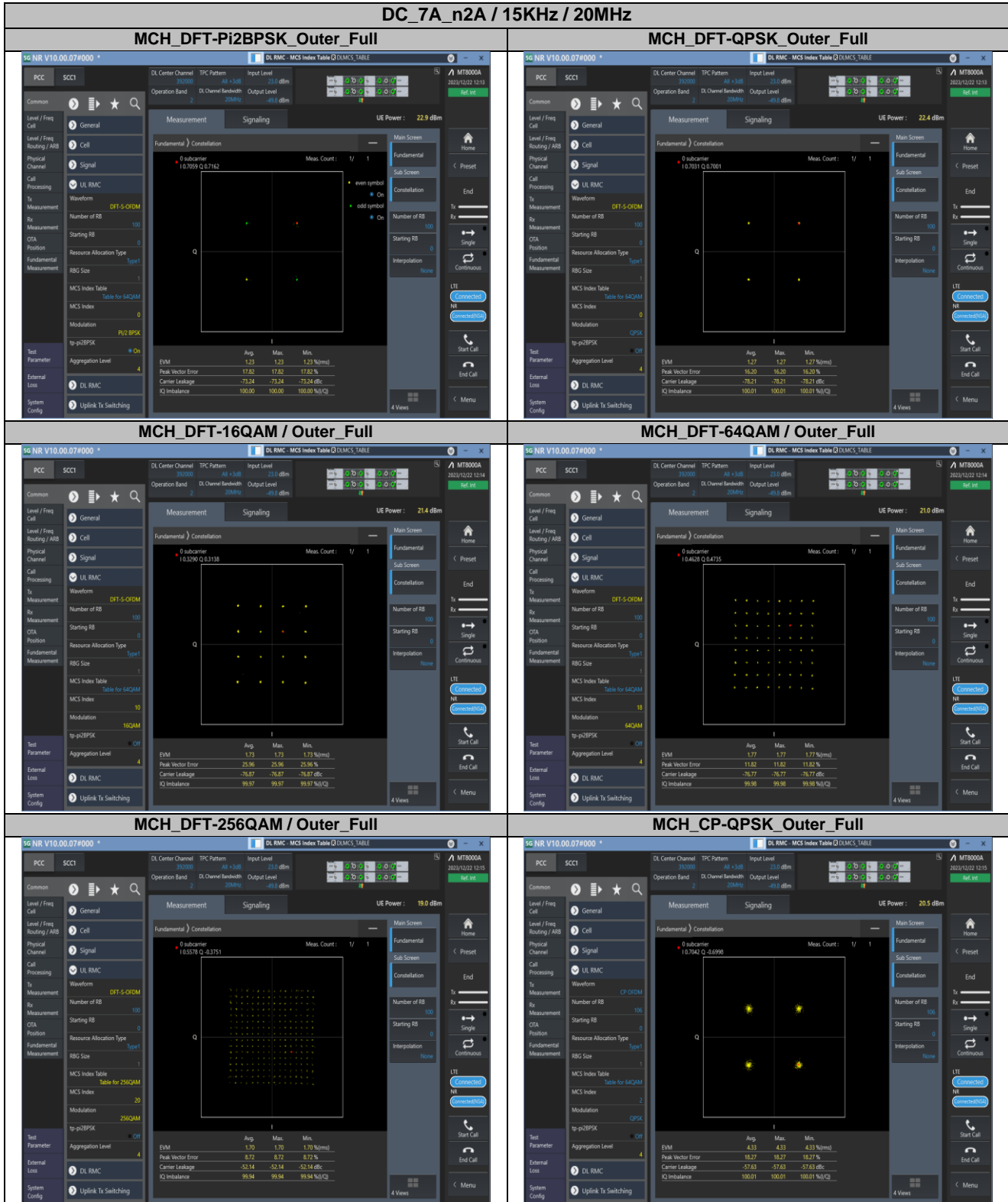
SCS	Bandwidth	Channel	Modulation	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	20MHz	LCH	Outer_Full	8.54	7.77	13.00	Pass
15KHz	20MHz	MCH	Outer_Full	8.47	7.30	13.00	Pass
15KHz	20MHz	HCH	Outer_Full	8.31	6.78	13.00	Pass

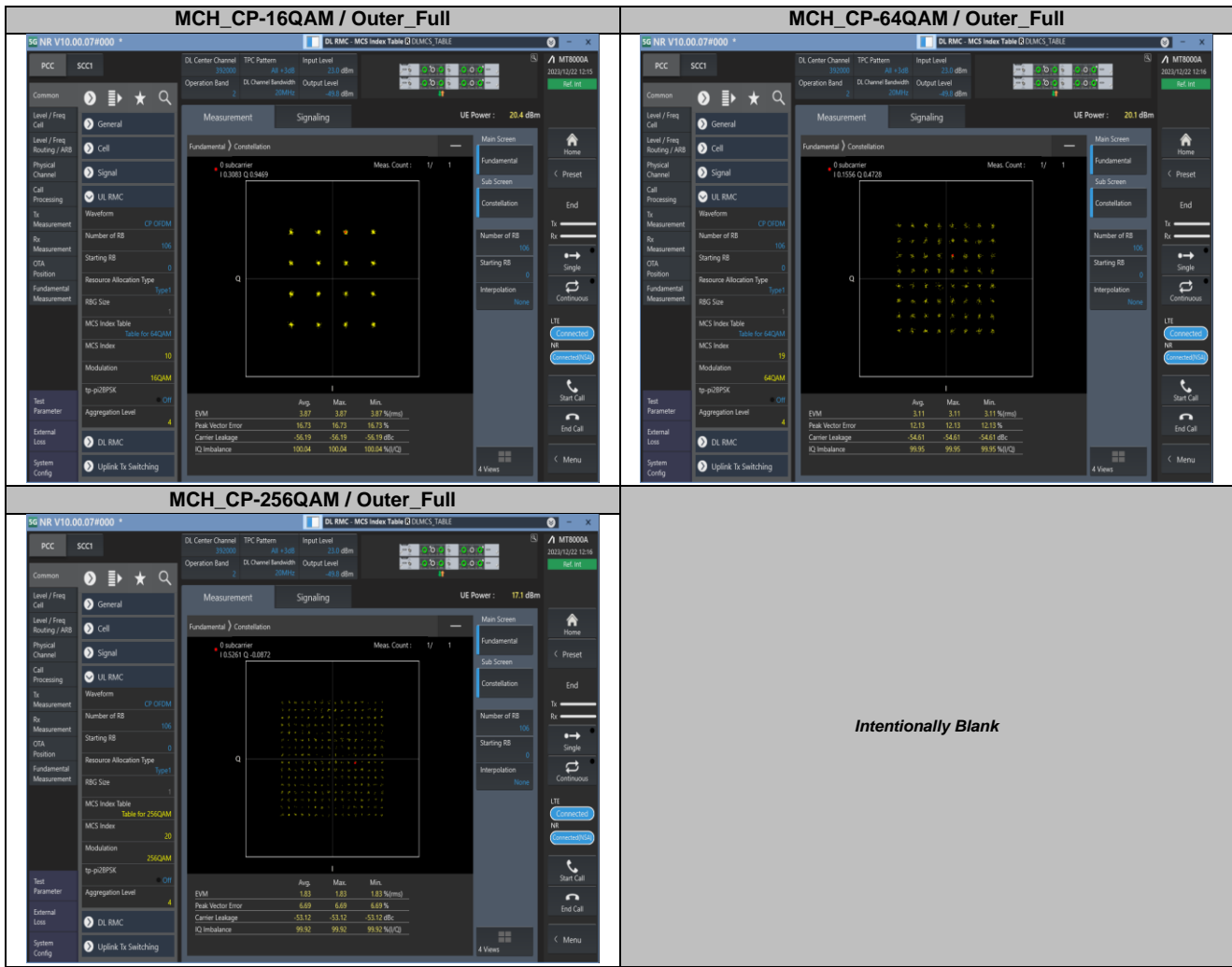
2.2. Test Plots



3. Modulation Characteristics

3.1. Test Plots





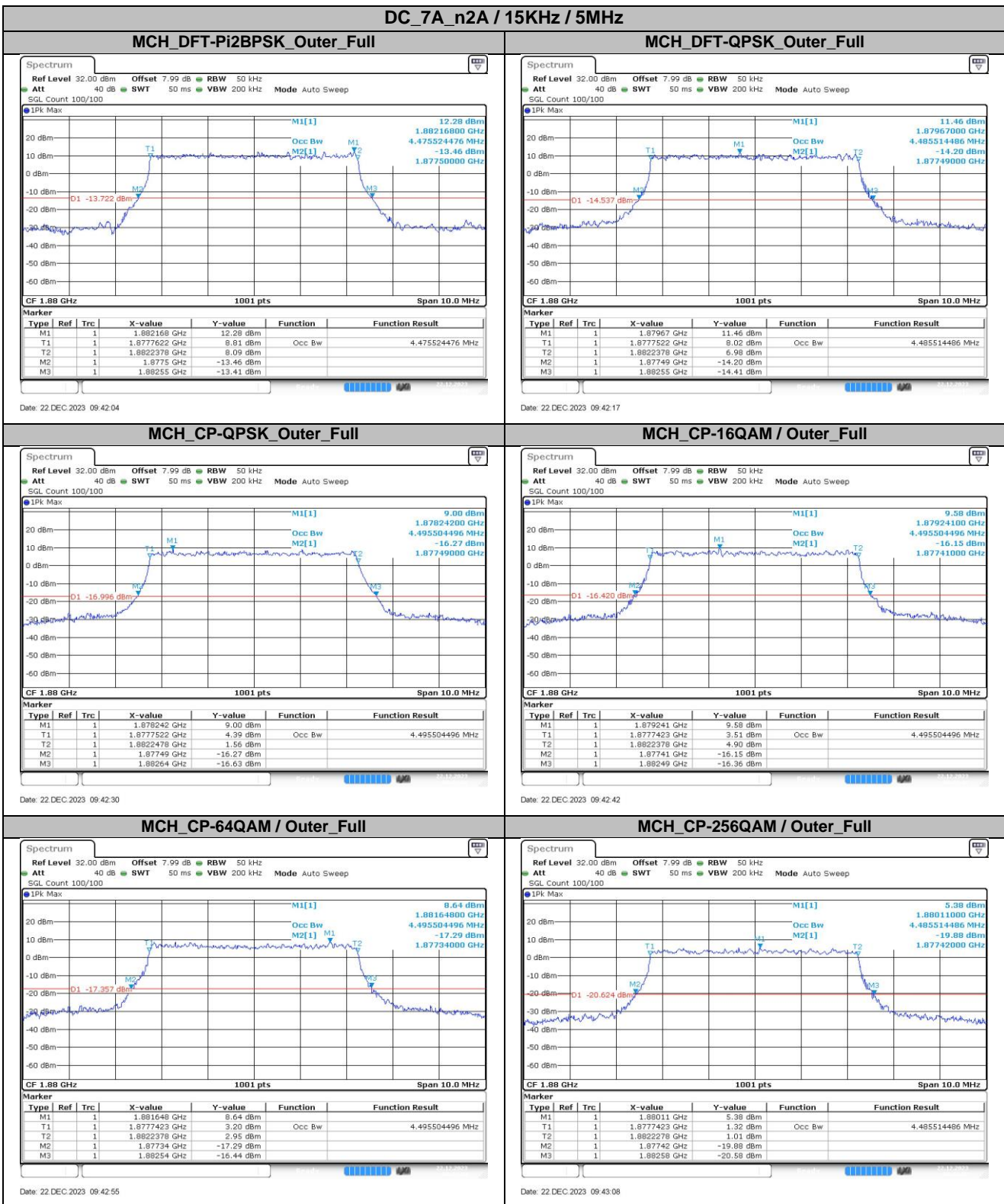
4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

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	5.05	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.49	5.06	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.50	5.15	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.50	5.08	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.50	5.20	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.49	5.16	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.93	9.66	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.95	9.62	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.29	10.16	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.27	10.04	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.27	10.02	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.33	10.16	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.46	14.37	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.46	14.46	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.12	15.12	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.15	15.15	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.18	15.18	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.12	15.12	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.86	18.84	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.86	18.88	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.94	20.08	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	19.02	20.04	Pass

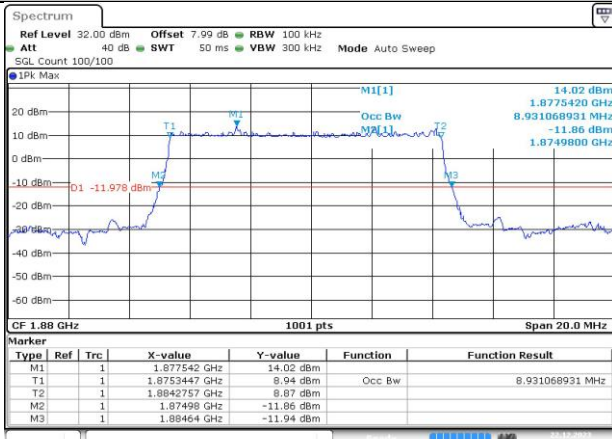
15KHz	20MHz	CP-64QAM	Outer_Full	18.94	20.00	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	19.02	20.04	Pass

4.2. Test Plots



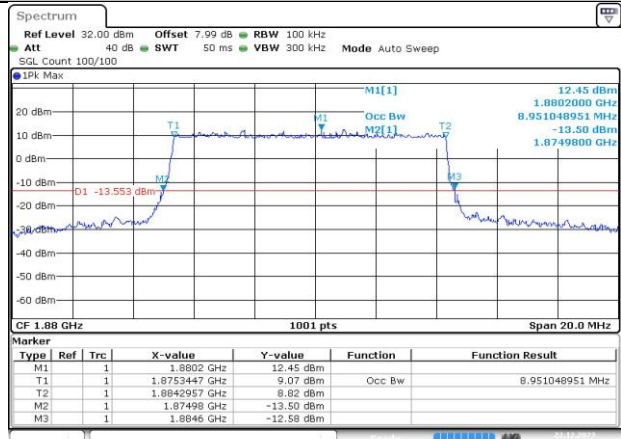
DC_7A_n2A / 15KHz / 10MHz

MCH_DFT-Pi2BPSK_Outer_Full



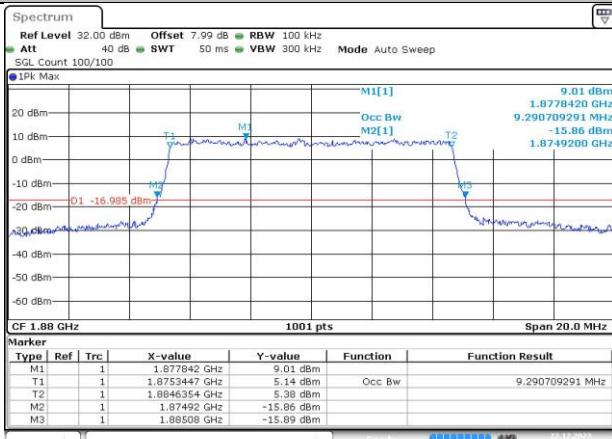
Date: 22 DEC 2023 09:43:25

MCH_DFT-QPSK_Outer_Full



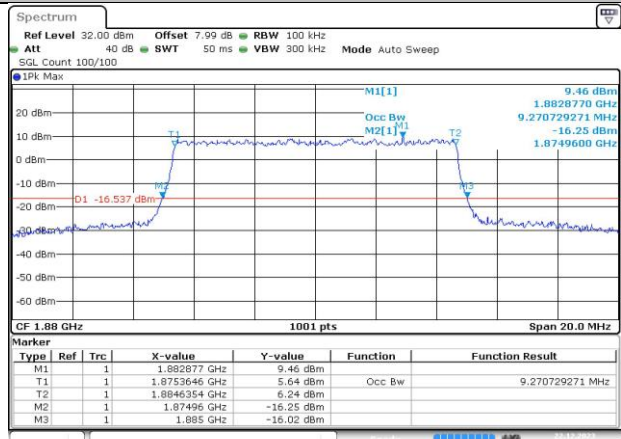
Date: 22 DEC 2023 09:43:38

MCH_CP-QPSK_Outer_Full



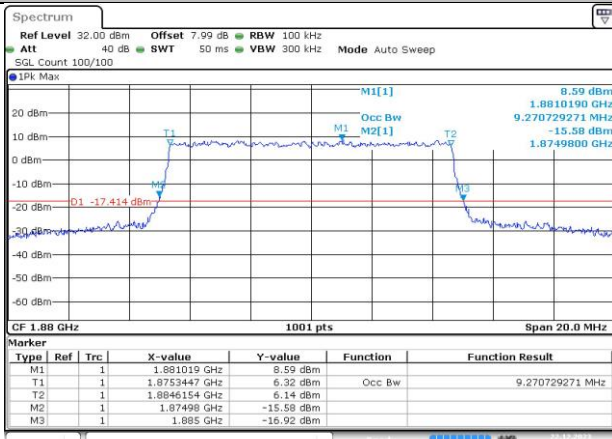
Date: 22 DEC 2023 09:43:52

MCH_CP-16QAM / Outer_Full



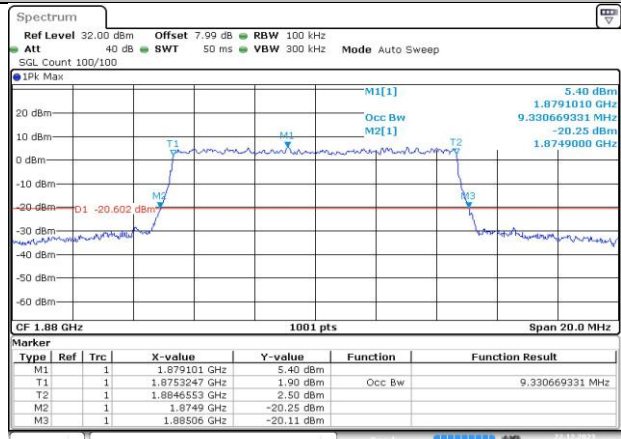
Date: 22 DEC 2023 09:44:05

MCH_CP-64QAM / Outer_Full



Date: 22 DEC 2023 09:44:18

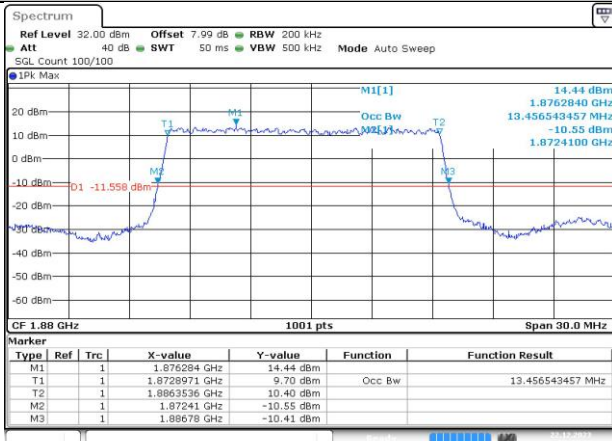
MCH_CP-256QAM / Outer_Full



Date: 22 DEC 2023 09:44:31

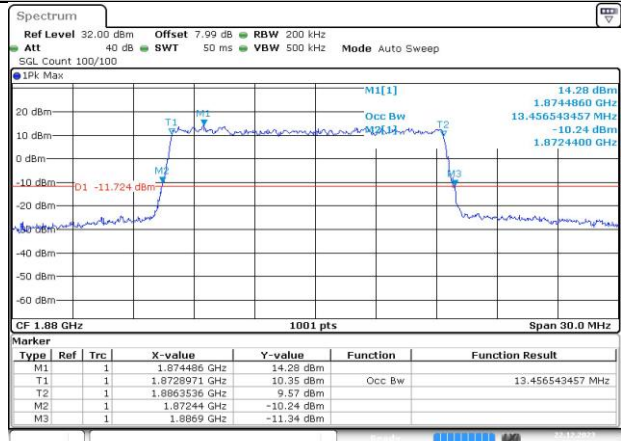
DC_7A_n2A / 15KHz / 15MHz

MCH_DFT-Pi2BPSK_Outer_Full



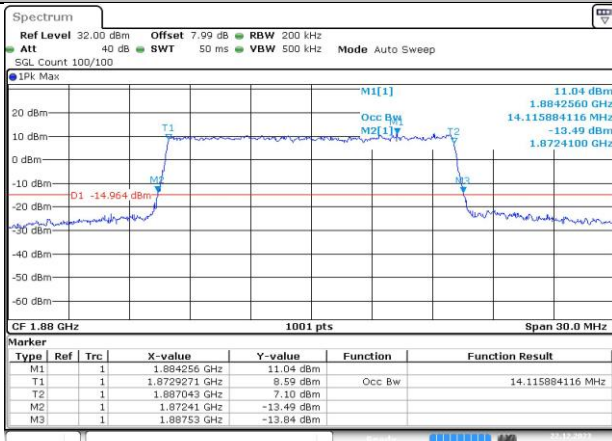
Date: 22 DEC 2023 09:44:49

MCH_DFT-QPSK_Outer_Full



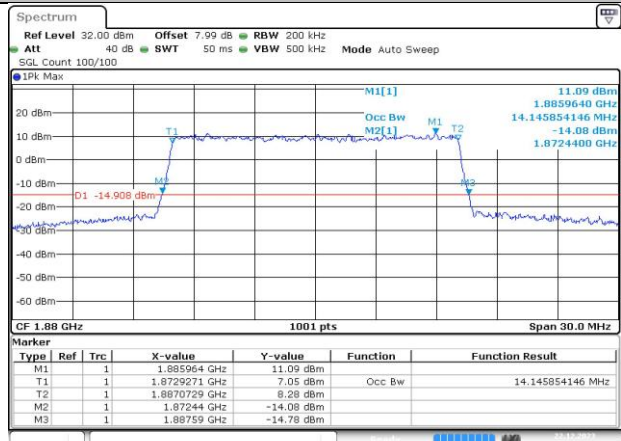
Date: 22 DEC 2023 09:45:02

MCH_CP-QPSK_Outer_Full



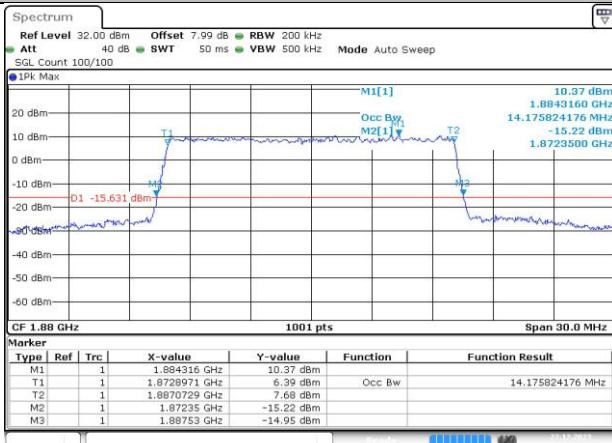
Date: 22 DEC 2023 09:45:17

MCH_CP-16QAM / Outer_Full



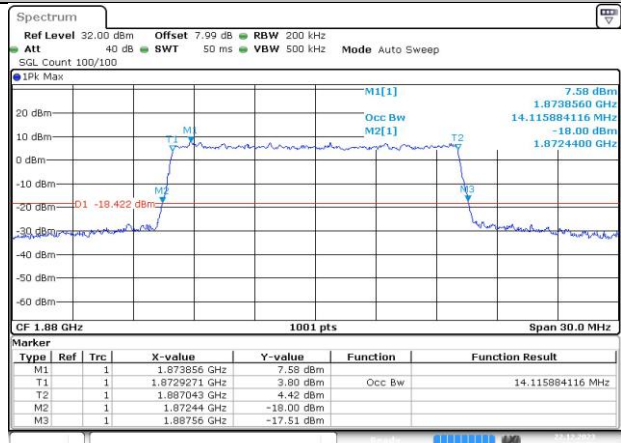
Date: 22 DEC 2023 09:45:30

MCH_CP-64QAM / Outer_Full



Date: 22 DEC 2023 09:45:43

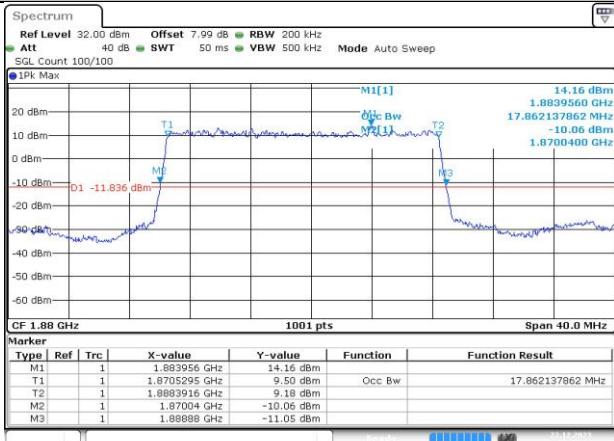
MCH_CP-256QAM / Outer_Full



Date: 22 DEC 2023 09:45:57

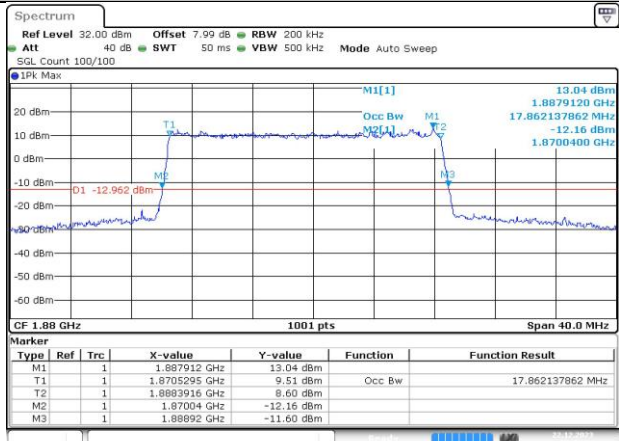
DC_7A_n2A / 15KHz / 20MHz

MCH_DFT-Pi2BPSK_Outer_Full



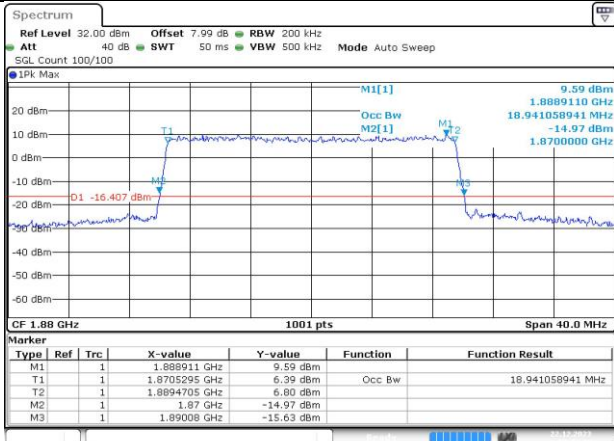
Date: 22 DEC 2023 09:46:14

MCH_DFT-QPSK_Outer_Full



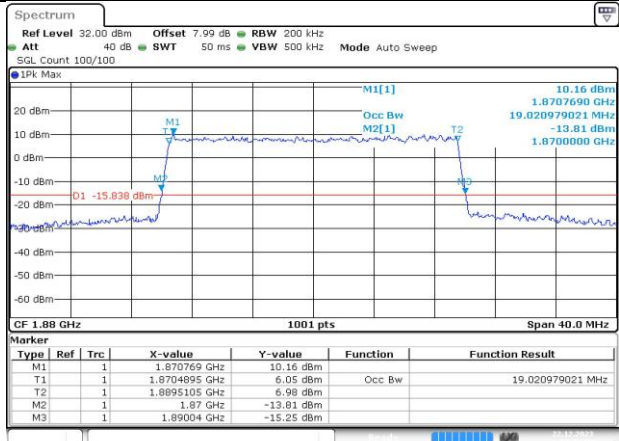
Date: 22 DEC 2023 09:46:28

MCH_CP-QPSK_Outer_Full



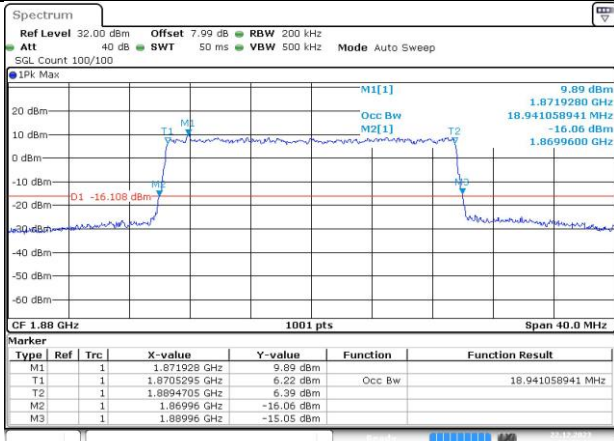
Date: 22 DEC 2023 09:46:43

MCH_CP-16QAM / Outer_Full



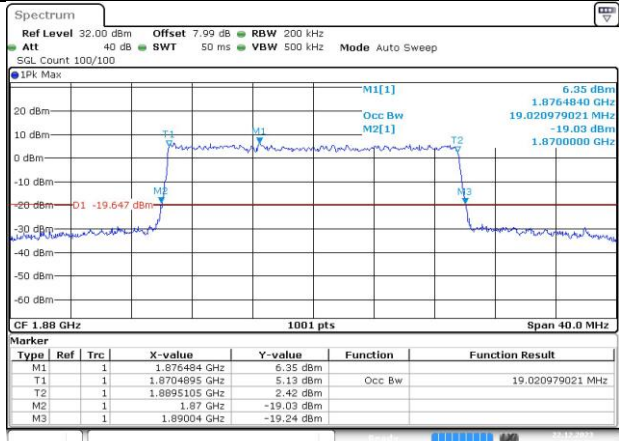
Date: 22 DEC 2023 09:46:57

MCH_CP-64QAM / Outer_Full



Date: 22 DEC 2023 09:47:11

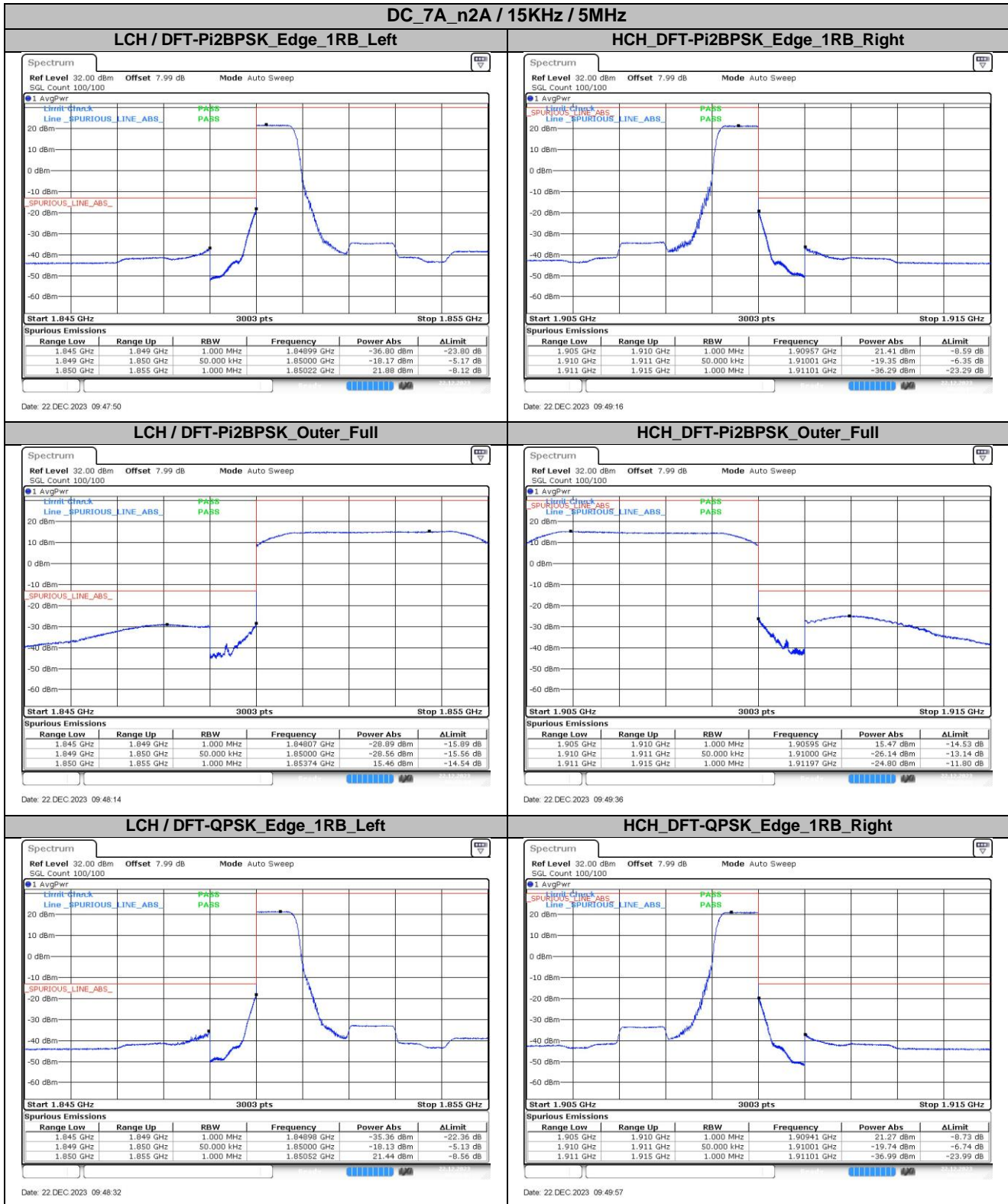
MCH_CP-256QAM / Outer_Full

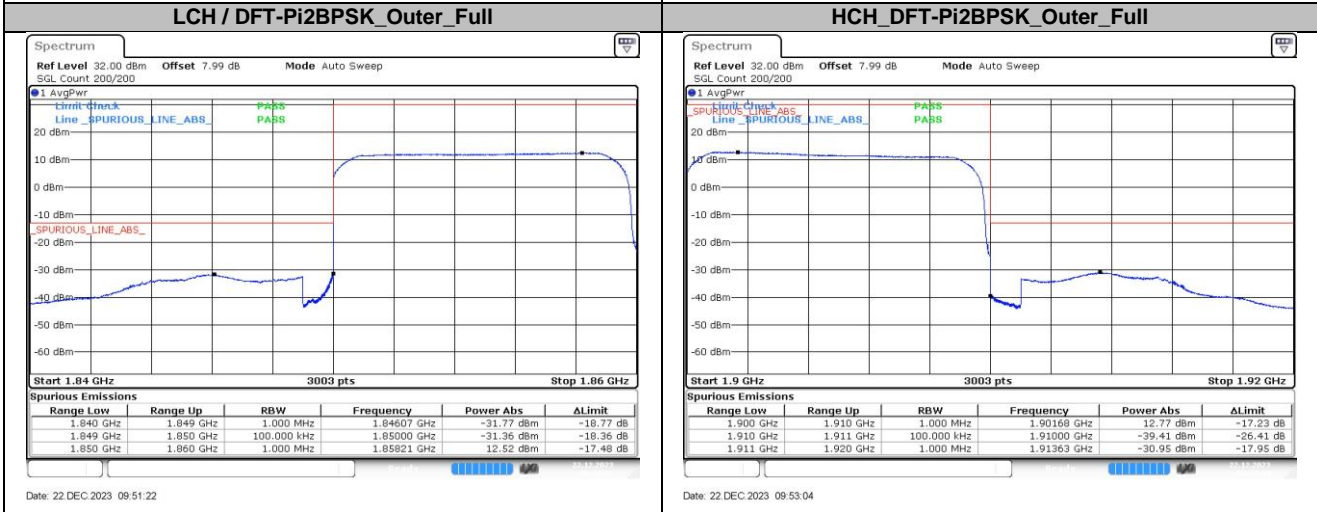
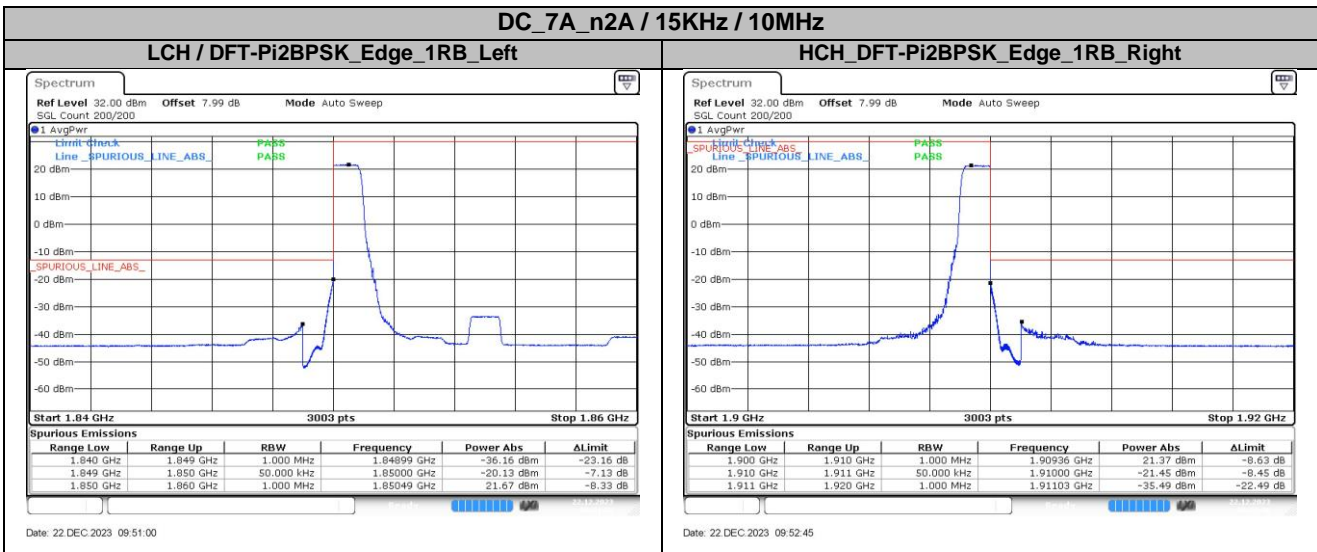
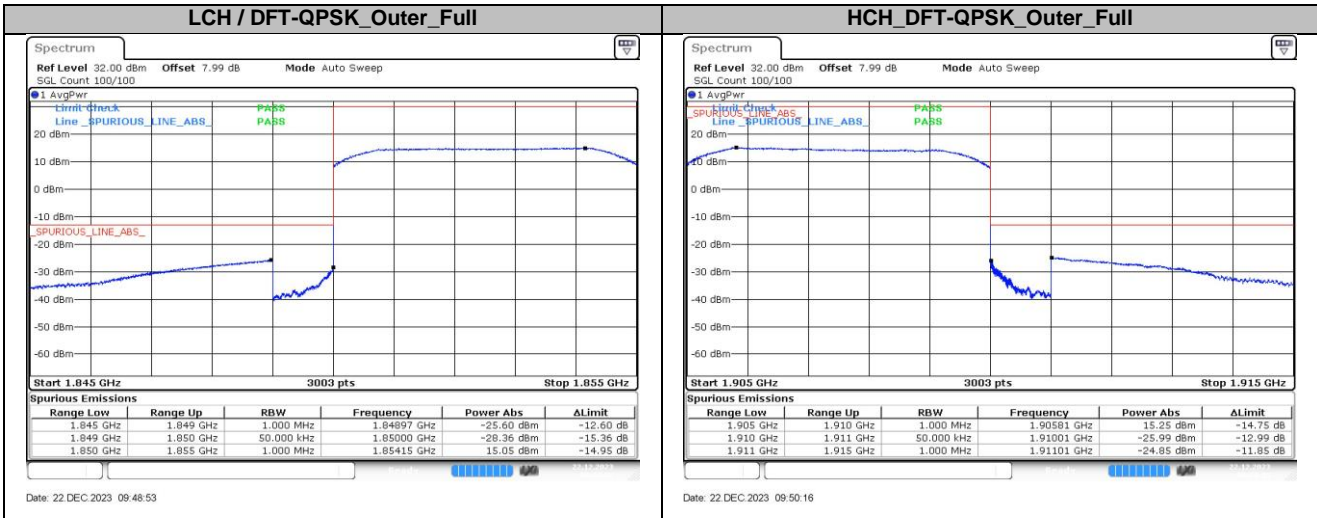


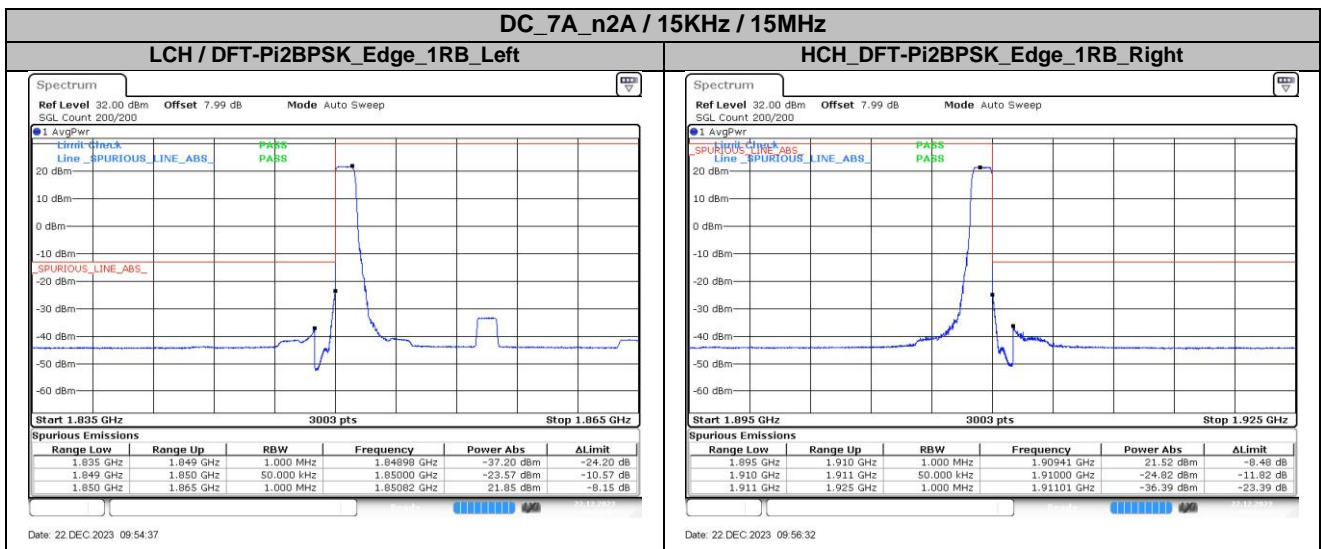
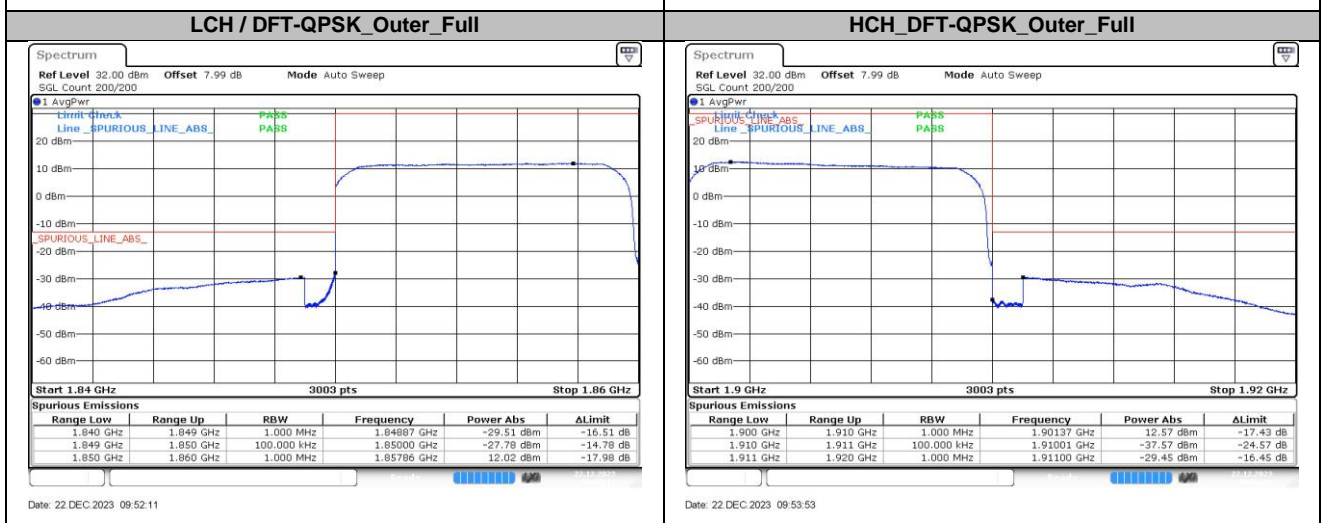
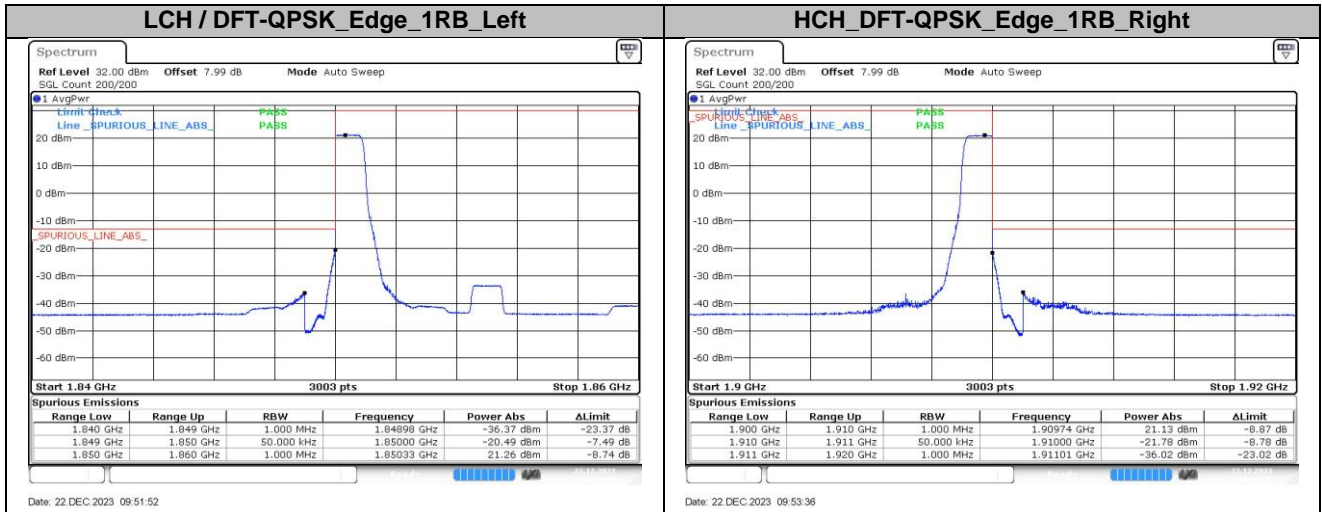
Date: 22 DEC 2023 09:47:25

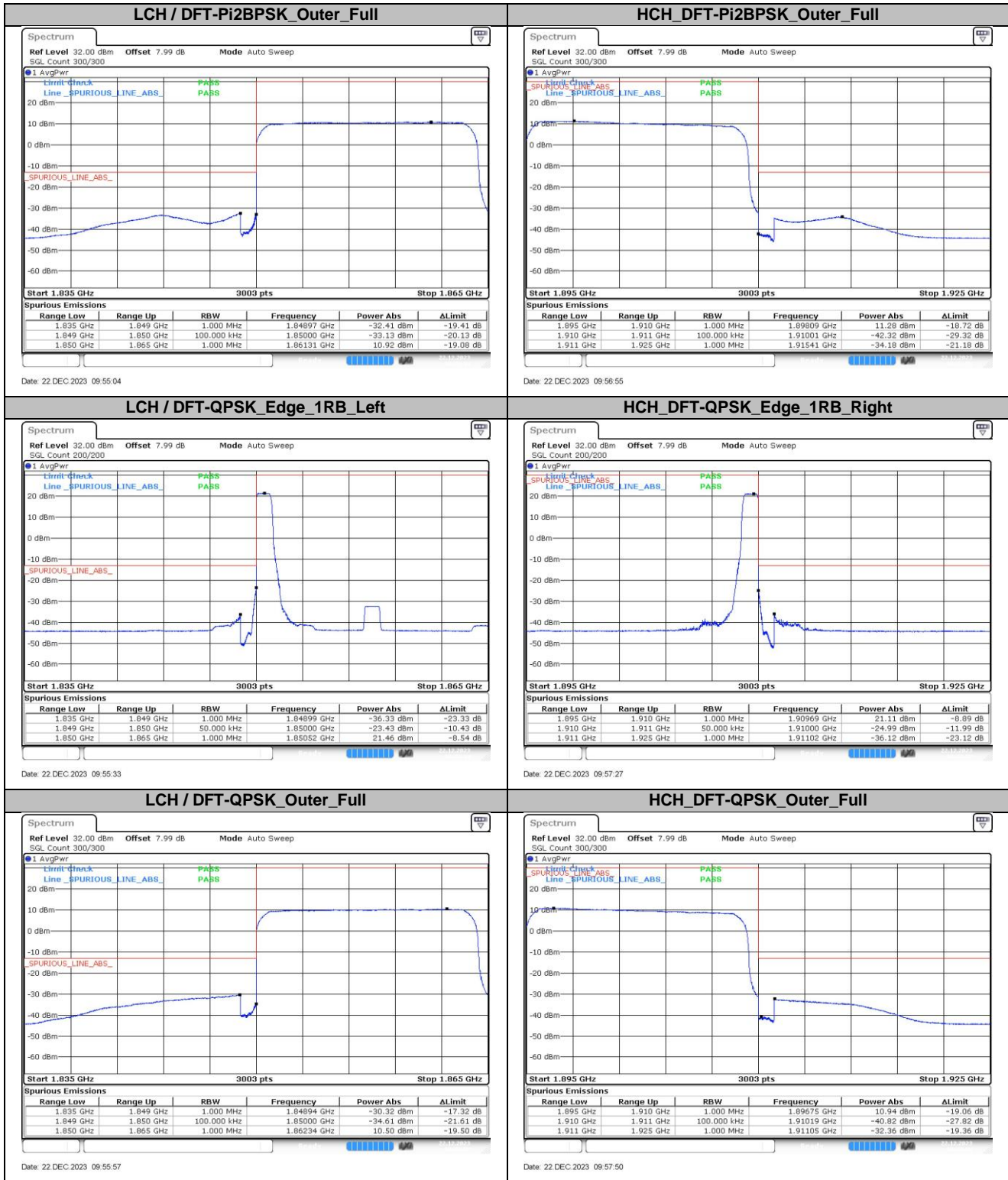
5. Conducted Band Edges

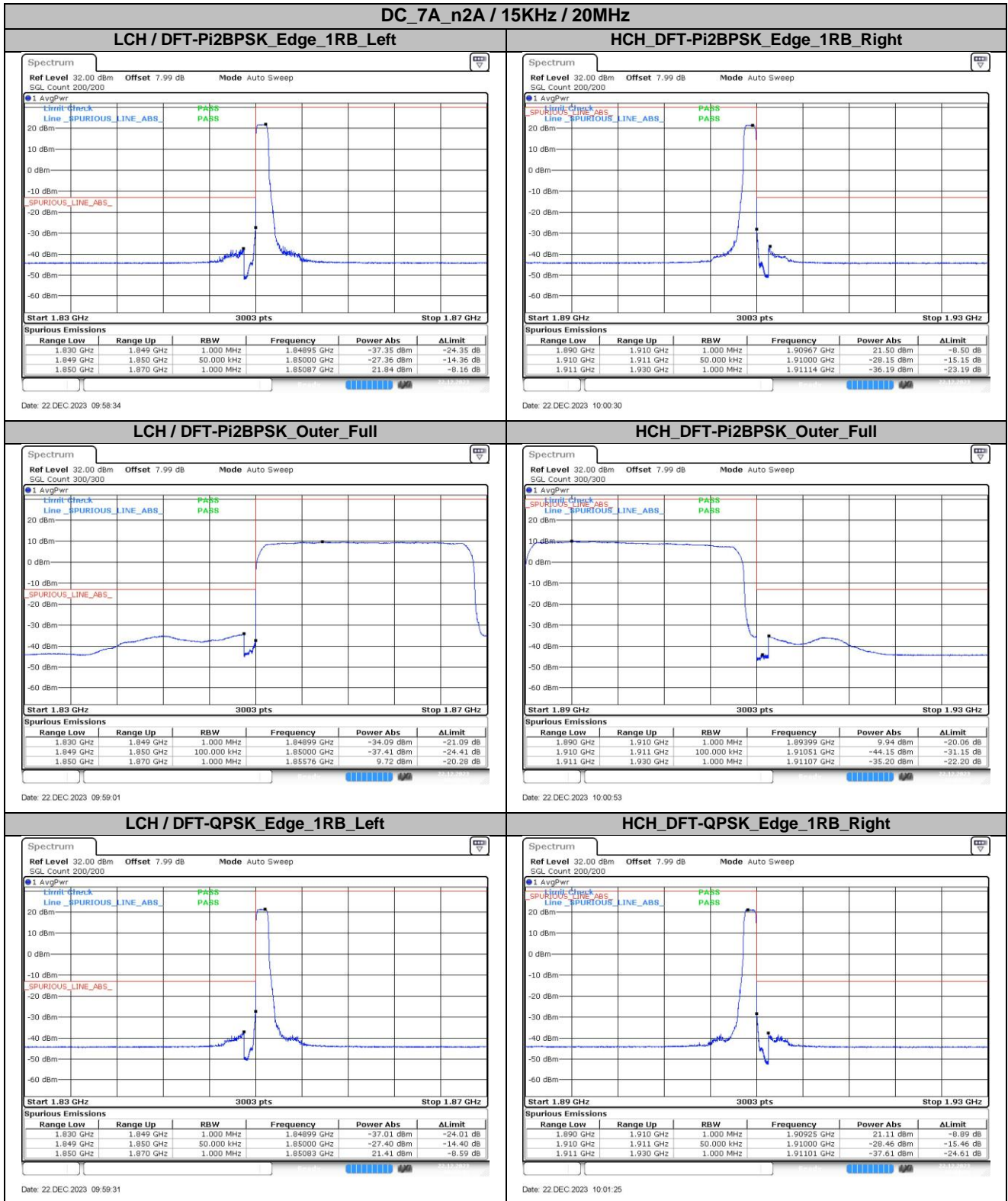
5.1. Test Plots

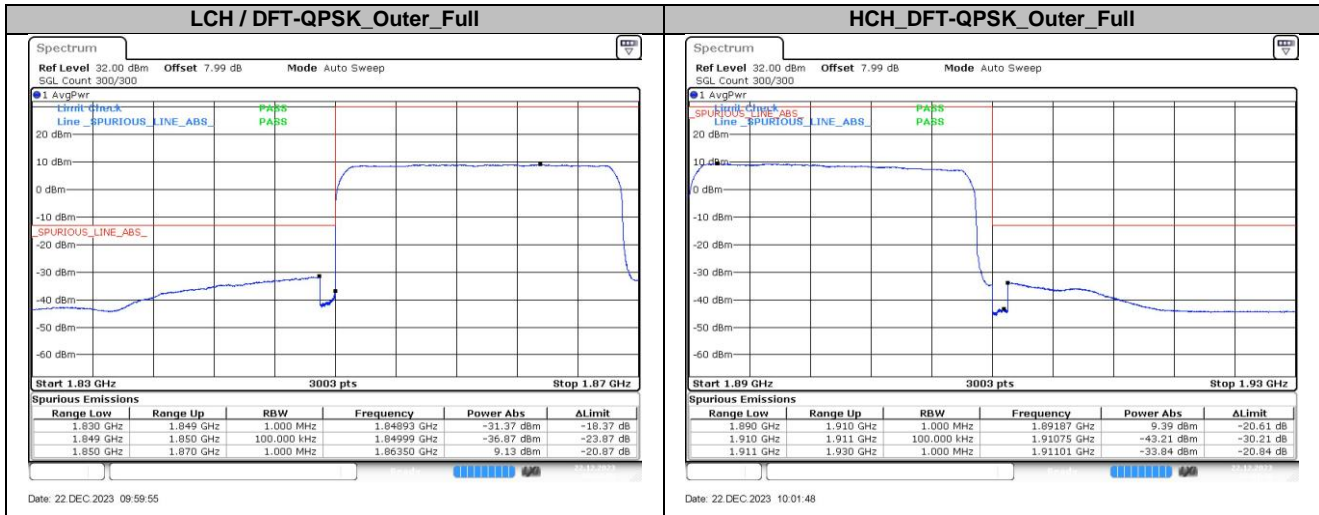












6. Conducted Spurious Emission

6.1. Test Plots

