

**Appendix  
for  
DC\_2A\_n5A  
(824-849)**

# Catalogue

- 1. EFFECTIVE RADIATED POWER ..... 3
  - 1.1. TEST RESULTS @ ANT4 (ANTENNA GAIN=-5.80DBI).....3
- 2. PEAK-TO-AVERAGE RATIO ..... 5
  - 2.1. TEST RESULTS .....5
  - 2.2. TEST PLOTS FOR SCS=15KHZ .....5
  - 2.3. TEST PLOTS FOR SCS=30KHZ .....6
- 3. MODULATION CHARACTERISTICS ..... 7
  - 3.1. TEST PLOTS.....7
- 4. 99% OCCUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH ..... 10
  - 4.1. TEST RESULTS ..... 10
  - 4.2. TEST PLOTS FOR SCS=15KHZ ..... 11
  - 4.3. TEST PLOTS FOR SCS=30KHZ ..... 15
- 5. CONDUCTED BAND EDGES ..... 18
  - 5.1. TEST PLOTS FOR SCS=15KHZ ..... 18
  - 5.2. TEST PLOTS FOR SCS=30KHZ ..... 23
- 6. CONDUCTED SPURIOUS EMISSION ..... 27
  - 6.1. TEST PLOTS FOR SCS=15KHZ ..... 27
  - 6.2. TEST PLOTS FOR SCS=30KHZ ..... 31
- 7. FREQUENCY STABILITY ..... 34
  - 7.1. TEST RESULTS ..... 34

### 1. Effective Radiated Power

#### 1.1. Test Results @ Ant4 (Antenna Gain=-5.80dBi)

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	22.25	21.83	21.92	14.30	38.45	Pass
15KHz	5MHz	LCH	DFT-QPSK	22.03	21.74	21.94	14.08	38.45	Pass
15KHz	5MHz	LCH	DFT-16QAM	21.62	21.61	21.54	13.67	38.45	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.01	20.01	19.93	12.06	38.45	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.18	18.15	17.94	10.23	38.45	Pass
15KHz	5MHz	LCH	CP-QPSK	20.99	20.99	21.01	13.06	38.45	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	21.76	21.46	21.57	13.81	38.45	Pass
15KHz	5MHz	MCH	DFT-QPSK	21.72	21.44	21.63	13.77	38.45	Pass
15KHz	5MHz	MCH	DFT-16QAM	21.68	21.67	21.64	13.73	38.45	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.00	20.03	20.12	12.17	38.45	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.15	18.14	18.07	10.20	38.45	Pass
15KHz	5MHz	MCH	CP-QPSK	20.88	20.99	21.11	13.16	38.45	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	22.29	22.13	22.32	14.37	38.45	Pass
15KHz	5MHz	HCH	DFT-QPSK	22.42	22.01	22.36	14.47	38.45	Pass
15KHz	5MHz	HCH	DFT-16QAM	21.60	21.69	21.46	13.74	38.45	Pass
15KHz	5MHz	HCH	DFT-64QAM	19.97	20.09	19.93	12.14	38.45	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.08	18.26	17.89	10.31	38.45	Pass
15KHz	5MHz	HCH	CP-QPSK	20.87	20.98	20.99	13.04	38.45	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	21.84	21.79	21.90	13.95	38.45	Pass
15KHz	10MHz	LCH	DFT-QPSK	21.78	21.76	21.95	14.00	38.45	Pass
15KHz	10MHz	LCH	DFT-16QAM	21.55	21.45	21.43	13.60	38.45	Pass
15KHz	10MHz	LCH	DFT-64QAM	19.90	19.84	19.80	11.95	38.45	Pass
15KHz	10MHz	LCH	DFT-256QAM	17.97	17.90	17.75	10.02	38.45	Pass
15KHz	10MHz	LCH	CP-QPSK	20.77	20.68	20.81	12.86	38.45	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	21.83	21.82	21.57	13.88	38.45	Pass
15KHz	10MHz	MCH	DFT-QPSK	21.77	21.79	21.63	13.84	38.45	Pass
15KHz	10MHz	MCH	DFT-16QAM	21.39	21.59	21.50	13.64	38.45	Pass
15KHz	10MHz	MCH	DFT-64QAM	19.73	19.92	19.86	11.97	38.45	Pass
15KHz	10MHz	MCH	DFT-256QAM	17.90	18.03	17.79	10.08	38.45	Pass
15KHz	10MHz	MCH	CP-QPSK	20.66	20.80	20.88	12.93	38.45	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	21.67	22.07	22.12	14.17	38.45	Pass
15KHz	10MHz	HCH	DFT-QPSK	21.62	22.03	22.17	14.22	38.45	Pass
15KHz	10MHz	HCH	DFT-16QAM	21.44	21.63	21.40	13.68	38.45	Pass
15KHz	10MHz	HCH	DFT-64QAM	19.80	19.99	19.77	12.04	38.45	Pass
15KHz	10MHz	HCH	DFT-256QAM	17.94	18.13	17.74	10.18	38.45	Pass
15KHz	10MHz	HCH	CP-QPSK	20.63	20.86	20.84	12.91	38.45	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	22.01	21.83	21.99	14.06	38.45	Pass
15KHz	15MHz	LCH	DFT-QPSK	21.98	21.83	22.06	14.11	38.45	Pass
15KHz	15MHz	LCH	DFT-16QAM	21.64	21.63	21.48	13.69	38.45	Pass
15KHz	15MHz	LCH	DFT-64QAM	19.96	20.00	19.94	12.05	38.45	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.06	18.15	17.91	10.20	38.45	Pass
15KHz	15MHz	LCH	CP-QPSK	20.88	20.93	20.95	13.00	38.45	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	22.19	22.37	21.77	14.42	38.45	Pass
15KHz	15MHz	MCH	DFT-QPSK	22.14	22.35	21.82	14.40	38.45	Pass
15KHz	15MHz	MCH	DFT-16QAM	21.63	21.73	21.61	13.78	38.45	Pass
15KHz	15MHz	MCH	DFT-64QAM	19.99	20.09	20.05	12.14	38.45	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.08	18.30	17.98	10.35	38.45	Pass
15KHz	15MHz	MCH	CP-QPSK	20.84	21.06	21.07	13.12	38.45	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	21.72	22.30	22.02	14.35	38.45	Pass
15KHz	15MHz	HCH	DFT-QPSK	21.66	22.28	22.05	14.33	38.45	Pass
15KHz	15MHz	HCH	DFT-16QAM	21.54	21.79	21.54	13.84	38.45	Pass
15KHz	15MHz	HCH	DFT-64QAM	19.84	20.10	19.95	12.15	38.45	Pass
15KHz	15MHz	HCH	DFT-256QAM	17.97	18.27	17.89	10.32	38.45	Pass
15KHz	15MHz	HCH	CP-QPSK	20.71	21.04	20.98	13.09	38.45	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	21.79	22.05	21.80	14.10	38.45	Pass
15KHz	20MHz	LCH	DFT-QPSK	21.72	22.05	21.86	14.10	38.45	Pass
15KHz	20MHz	LCH	DFT-16QAM	21.49	21.70	21.61	13.75	38.45	Pass
15KHz	20MHz	LCH	DFT-64QAM	19.86	20.11	20.03	12.16	38.45	Pass
15KHz	20MHz	LCH	DFT-256QAM	18.04	18.21	18.02	10.26	38.45	Pass

15KHz	20MHz	LCH	CP-QPSK	20.80	21.05	20.99	13.10	38.45	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	21.84	22.18	21.73	14.23	38.45	Pass
15KHz	20MHz	MCH	DFT-QPSK	21.79	22.15	21.78	14.20	38.45	Pass
15KHz	20MHz	MCH	DFT-16QAM	21.48	21.74	21.63	13.79	38.45	Pass
15KHz	20MHz	MCH	DFT-64QAM	19.97	20.14	20.01	12.19	38.45	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.05	18.24	18.01	10.29	38.45	Pass
15KHz	20MHz	MCH	CP-QPSK	20.84	20.96	21.03	13.08	38.45	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	21.94	21.99	21.77	14.04	38.45	Pass
15KHz	20MHz	HCH	DFT-QPSK	21.89	21.98	21.83	14.03	38.45	Pass
15KHz	20MHz	HCH	DFT-16QAM	21.48	21.76	21.61	13.81	38.45	Pass
15KHz	20MHz	HCH	DFT-64QAM	19.87	20.21	20.05	12.26	38.45	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.02	18.31	18.03	10.36	38.45	Pass
15KHz	20MHz	HCH	CP-QPSK	20.80	21.02	20.99	13.07	38.45	Pass
30KHz	10MHz	LCH	DFT-Pi2BPSK	22.19	22.04	22.11	14.24	38.45	Pass
30KHz	10MHz	LCH	DFT-QPSK	21.88	21.81	22.09	14.14	38.45	Pass
30KHz	10MHz	LCH	DFT-16QAM	21.33	21.28	21.52	13.57	38.45	Pass
30KHz	10MHz	LCH	DFT-64QAM	19.60	19.56	19.99	12.04	38.45	Pass
30KHz	10MHz	LCH	DFT-256QAM	18.18	18.18	17.88	10.23	38.45	Pass
30KHz	10MHz	LCH	CP-QPSK	20.99	20.98	20.94	13.04	38.45	Pass
30KHz	10MHz	MCH	DFT-Pi2BPSK	21.83	21.82	21.63	13.88	38.45	Pass
30KHz	10MHz	MCH	DFT-QPSK	21.69	21.73	21.68	13.78	38.45	Pass
30KHz	10MHz	MCH	DFT-16QAM	21.26	21.37	21.55	13.60	38.45	Pass
30KHz	10MHz	MCH	DFT-64QAM	19.53	19.63	20.06	12.11	38.45	Pass
30KHz	10MHz	MCH	DFT-256QAM	18.12	18.26	18.00	10.31	38.45	Pass
30KHz	10MHz	MCH	CP-QPSK	20.96	21.08	21.01	13.13	38.45	Pass
30KHz	10MHz	HCH	DFT-Pi2BPSK	21.85	22.22	22.24	14.29	38.45	Pass
30KHz	10MHz	HCH	DFT-QPSK	21.73	22.10	22.29	14.34	38.45	Pass
30KHz	10MHz	HCH	DFT-16QAM	21.29	21.41	21.50	13.55	38.45	Pass
30KHz	10MHz	HCH	DFT-64QAM	19.48	19.65	20.01	12.06	38.45	Pass
30KHz	10MHz	HCH	DFT-256QAM	18.12	18.30	17.91	10.35	38.45	Pass
30KHz	10MHz	HCH	CP-QPSK	20.98	21.13	21.03	13.18	38.45	Pass
30KHz	15MHz	LCH	DFT-Pi2BPSK	22.04	21.86	21.97	14.09	38.45	Pass
30KHz	15MHz	LCH	DFT-QPSK	21.99	21.83	22.02	14.07	38.45	Pass
30KHz	15MHz	LCH	DFT-16QAM	21.34	21.39	21.47	13.52	38.45	Pass
30KHz	15MHz	LCH	DFT-64QAM	19.82	19.86	19.96	12.01	38.45	Pass
30KHz	15MHz	LCH	DFT-256QAM	18.06	18.05	17.94	10.11	38.45	Pass
30KHz	15MHz	LCH	CP-QPSK	20.90	20.91	20.90	12.96	38.45	Pass
30KHz	15MHz	MCH	DFT-Pi2BPSK	22.22	22.32	21.72	14.37	38.45	Pass
30KHz	15MHz	MCH	DFT-QPSK	22.13	22.28	21.80	14.33	38.45	Pass
30KHz	15MHz	MCH	DFT-16QAM	21.36	21.49	21.55	13.60	38.45	Pass
30KHz	15MHz	MCH	DFT-64QAM	19.84	19.96	20.02	12.07	38.45	Pass
30KHz	15MHz	MCH	DFT-256QAM	18.00	18.16	18.01	10.21	38.45	Pass
30KHz	15MHz	MCH	CP-QPSK	20.90	21.02	20.99	13.07	38.45	Pass
30KHz	15MHz	HCH	DFT-Pi2BPSK	21.80	22.35	21.98	14.40	38.45	Pass
30KHz	15MHz	HCH	DFT-QPSK	21.72	22.32	22.06	14.37	38.45	Pass
30KHz	15MHz	HCH	DFT-16QAM	21.30	21.48	21.49	13.54	38.45	Pass
30KHz	15MHz	HCH	DFT-64QAM	19.78	20.00	19.91	12.05	38.45	Pass
30KHz	15MHz	HCH	DFT-256QAM	18.03	18.19	17.93	10.24	38.45	Pass
30KHz	15MHz	HCH	CP-QPSK	20.85	21.07	20.99	13.12	38.45	Pass
30KHz	20MHz	LCH	DFT-Pi2BPSK	21.78	21.98	21.74	14.03	38.45	Pass
30KHz	20MHz	LCH	DFT-QPSK	21.71	21.94	21.79	13.99	38.45	Pass
30KHz	20MHz	LCH	DFT-16QAM	21.26	21.43	21.60	13.65	38.45	Pass
30KHz	20MHz	LCH	DFT-64QAM	19.79	19.76	20.04	12.09	38.45	Pass
30KHz	20MHz	LCH	DFT-256QAM	18.13	18.25	18.02	10.30	38.45	Pass
30KHz	20MHz	LCH	CP-QPSK	20.90	21.07	20.98	13.12	38.45	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	21.77	22.23	21.68	14.28	38.45	Pass
30KHz	20MHz	MCH	DFT-QPSK	21.65	22.12	21.74	14.17	38.45	Pass
30KHz	20MHz	MCH	DFT-16QAM	21.23	21.41	21.63	13.68	38.45	Pass
30KHz	20MHz	MCH	DFT-64QAM	19.48	19.69	20.05	12.10	38.45	Pass
30KHz	20MHz	MCH	DFT-256QAM	18.10	18.21	18.05	10.26	38.45	Pass
30KHz	20MHz	MCH	CP-QPSK	20.88	21.09	21.01	13.14	38.45	Pass
30KHz	20MHz	HCH	DFT-Pi2BPSK	21.94	22.07	21.72	14.12	38.45	Pass
30KHz	20MHz	HCH	DFT-QPSK	21.78	21.96	21.80	14.01	38.45	Pass
30KHz	20MHz	HCH	DFT-16QAM	21.16	21.44	21.60	13.65	38.45	Pass

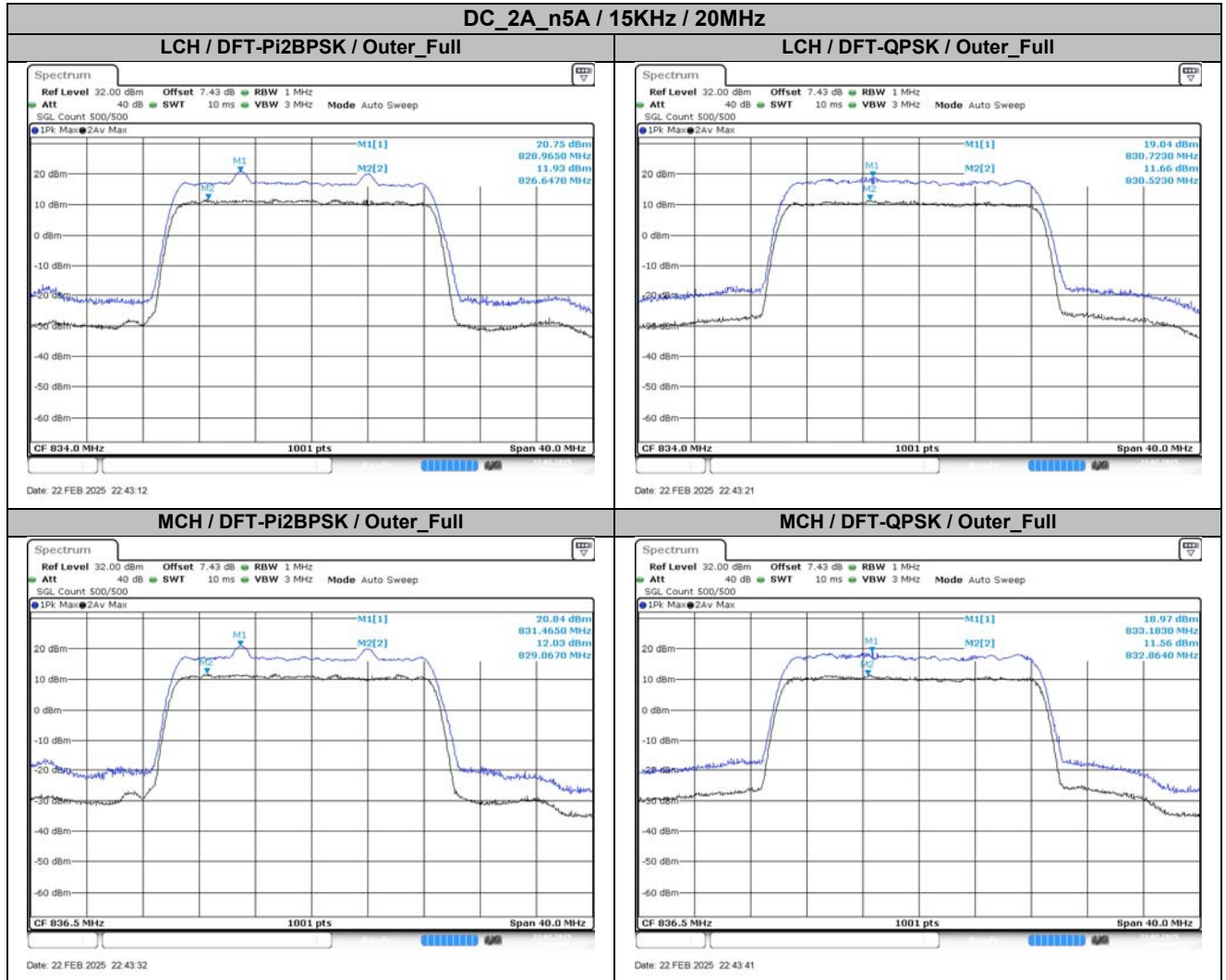
30KHz	20MHz	HCH	DFT-64QAM	19.54	19.66	20.07	12.12	38.45	Pass
30KHz	20MHz	HCH	DFT-256QAM	18.05	18.26	18.10	10.31	38.45	Pass
30KHz	20MHz	HCH	CP-QPSK	20.87	21.13	21.01	13.18	38.45	Pass

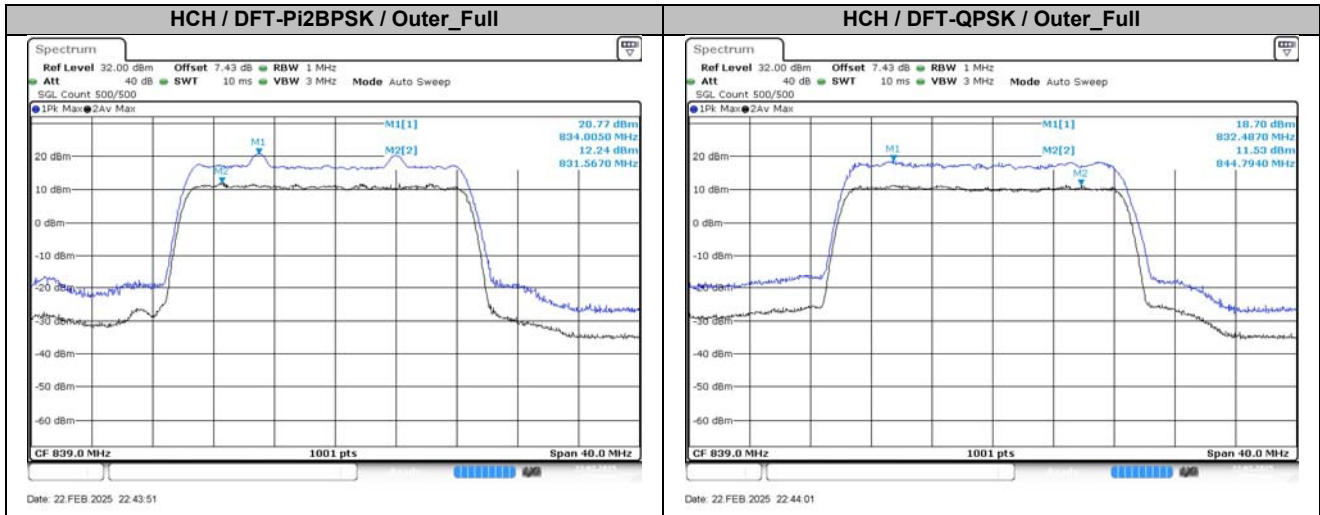
## 2. Peak-to-Average Ratio

### 2.1. Test Results

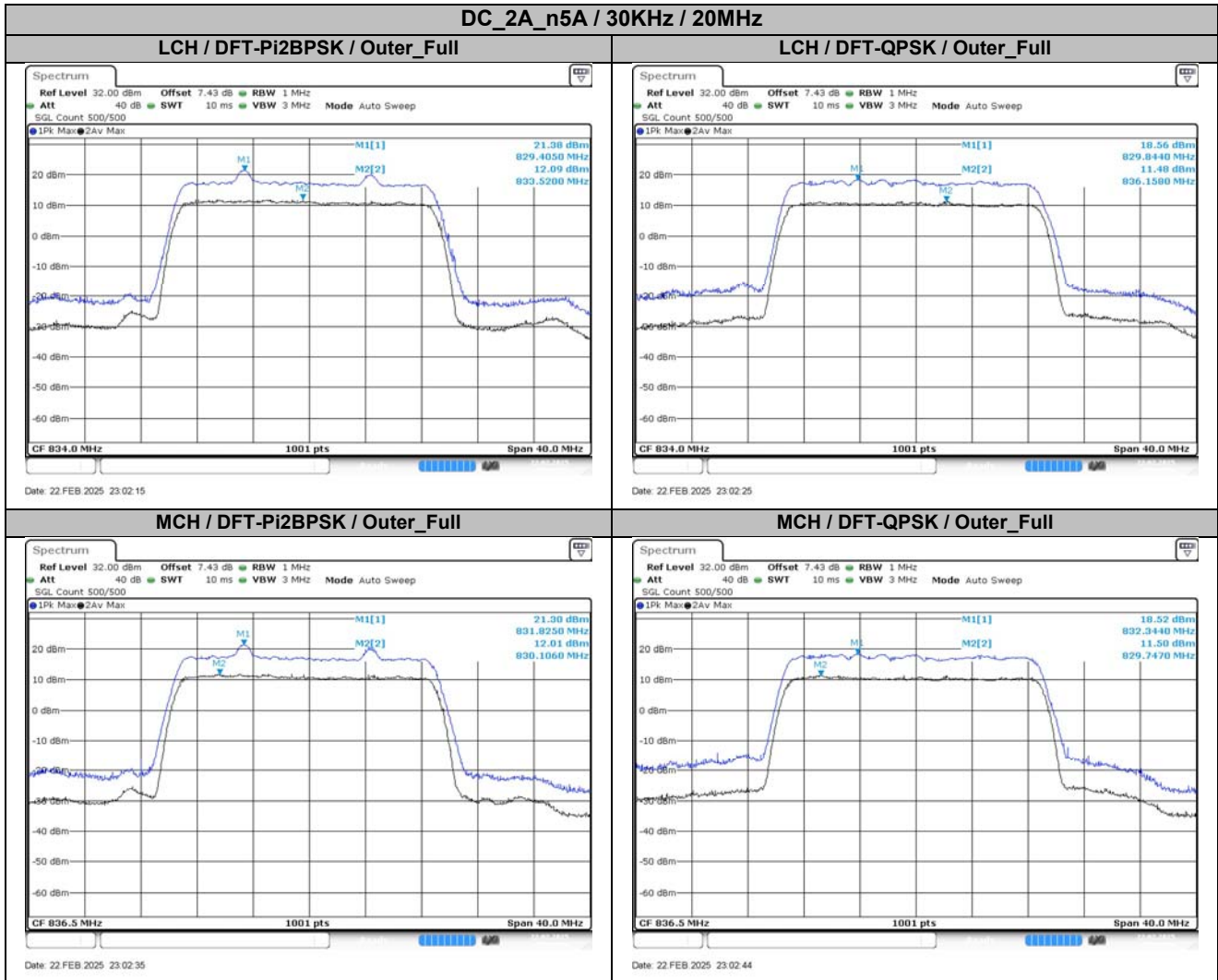
Channel	RB	15KHz / 20MHz		30KHz / 20MHz		Limit (dB)	Verdict
		DFT-Pi2BPSK	DFT-QPSK	DFT-Pi2BPSK	DFT-QPSK		
LCH	Outer_Full	8.83	7.38	9.29	7.08	13.00	Pass
MCH	Outer_Full	8.81	7.41	9.28	7.02	13.00	Pass
HCH	Outer_Full	8.53	7.17	9.39	7.29	13.00	Pass

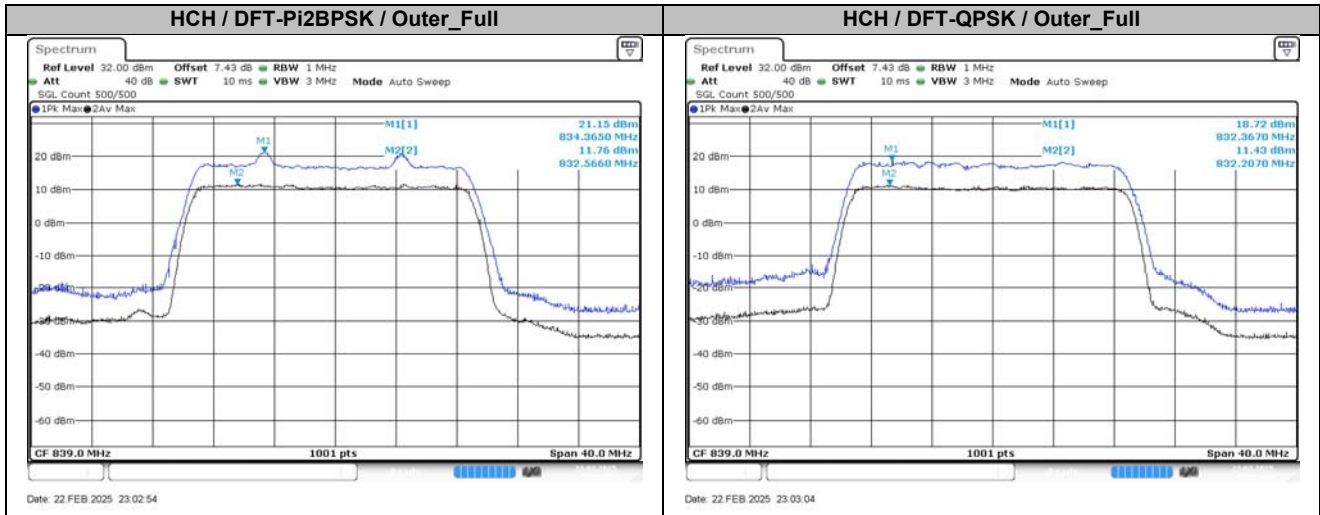
### 2.2. Test Plots for SCS=15KHz





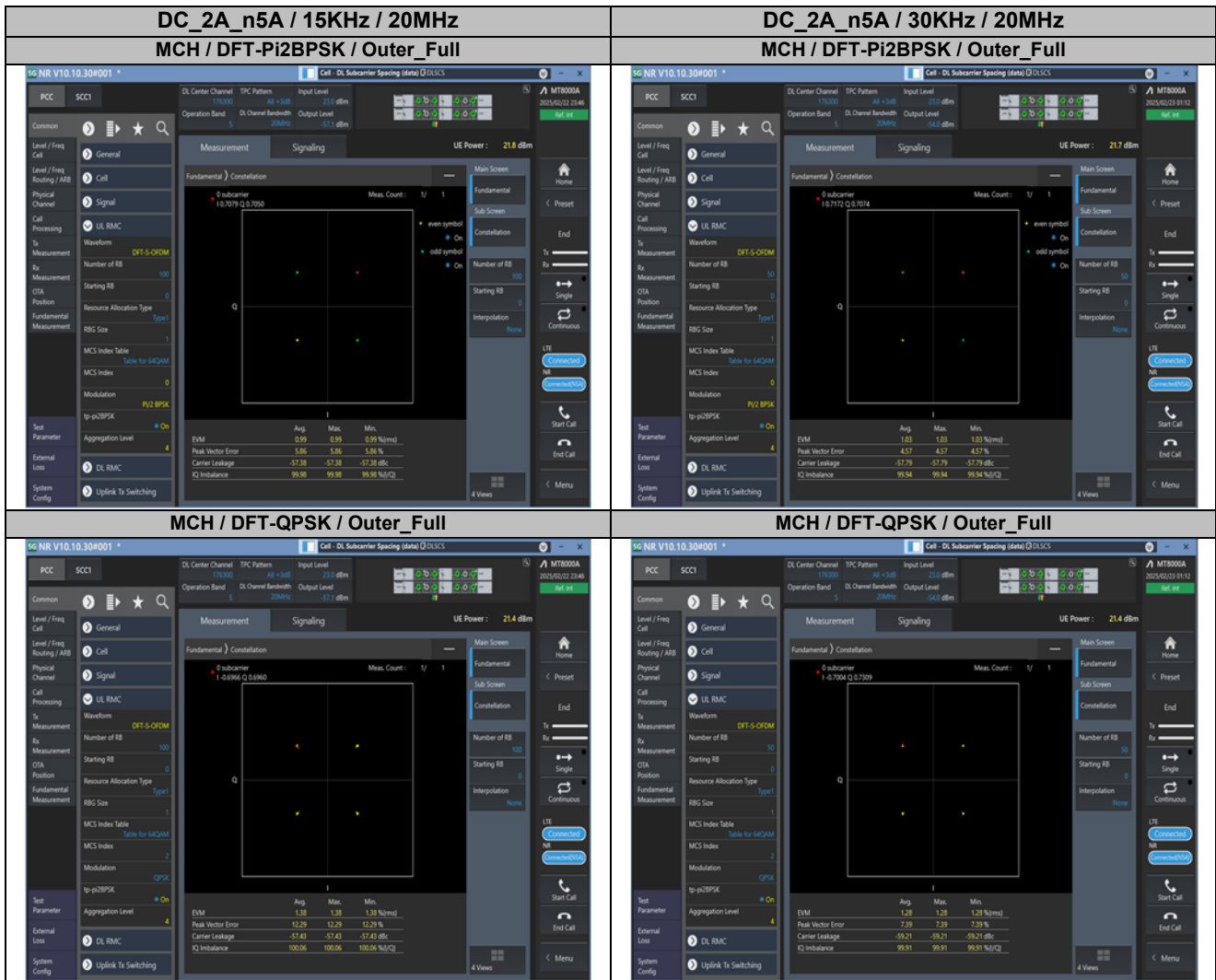
2.3. Test Plots for SCS=30KHz

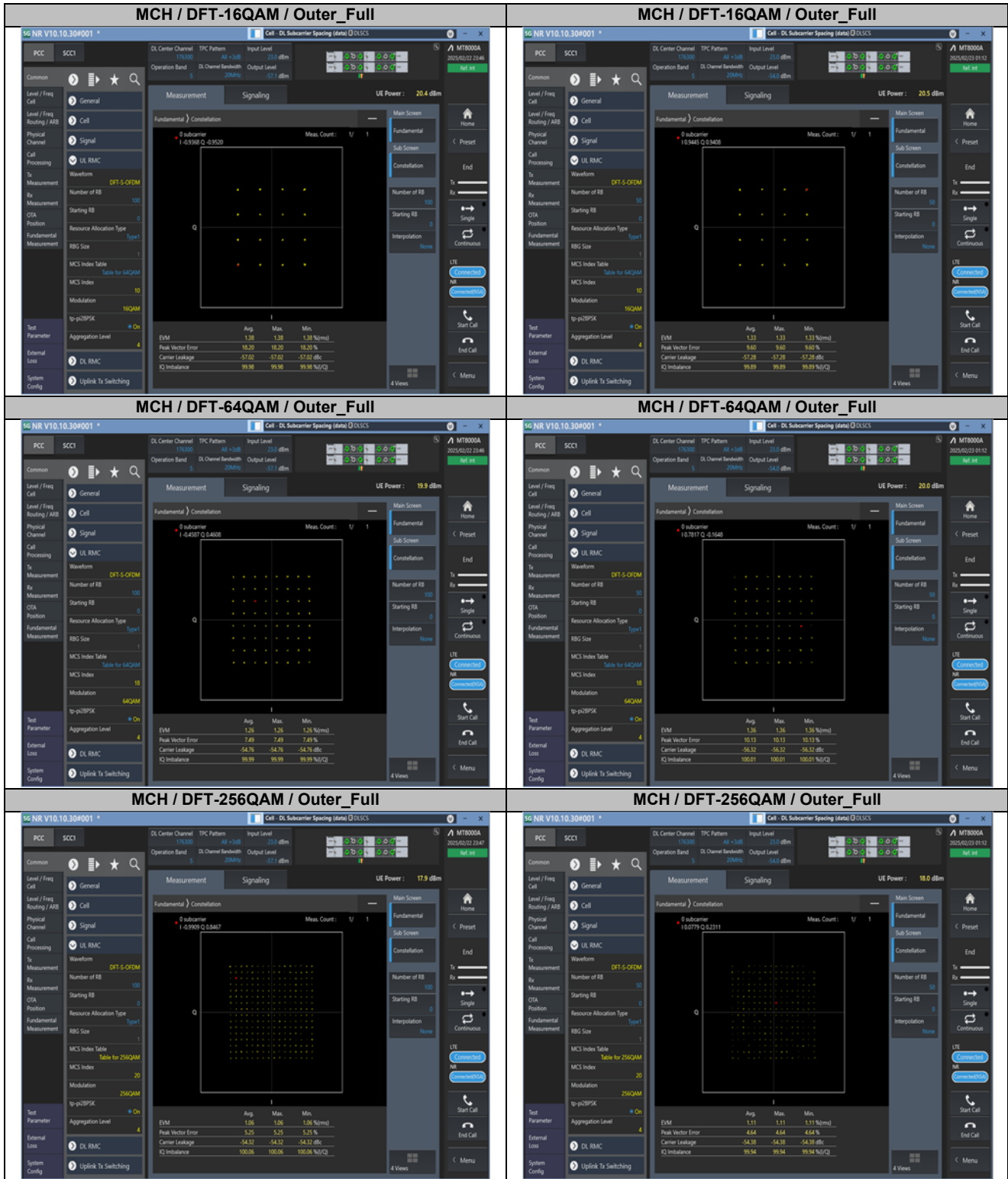


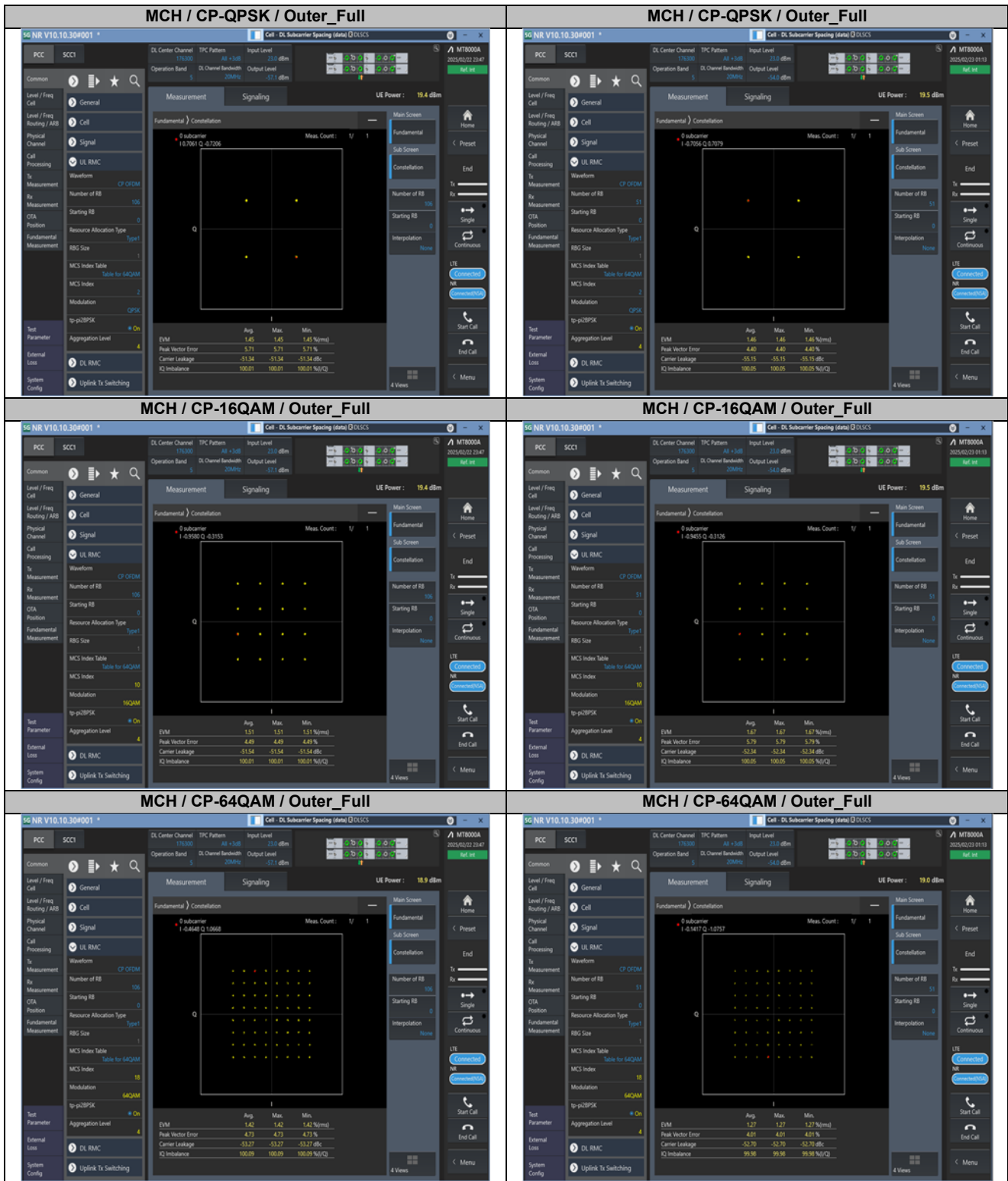


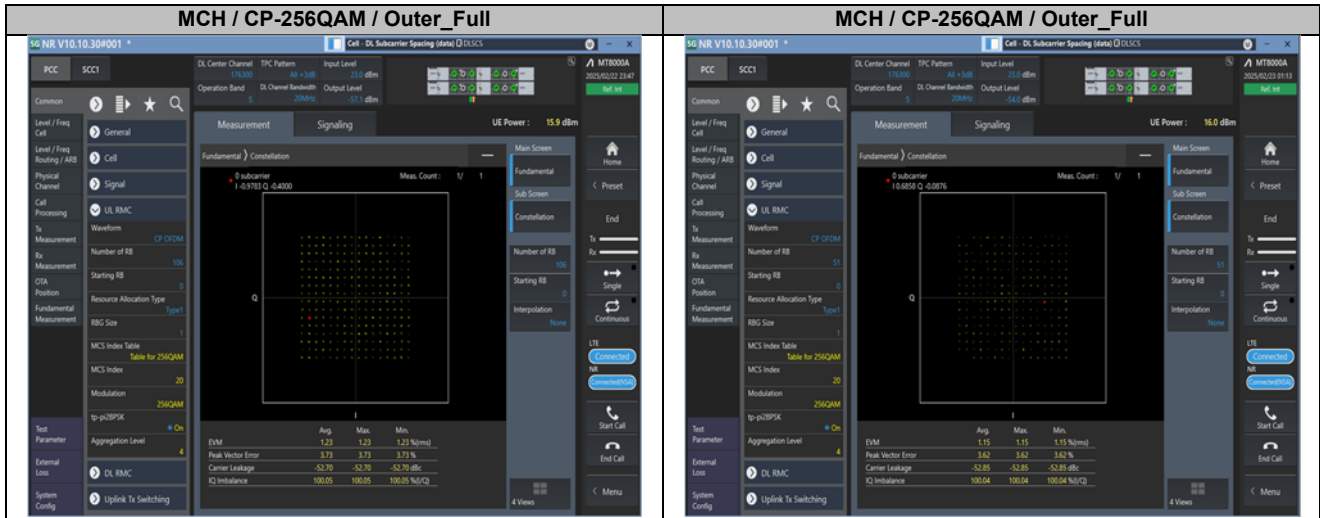
### 3. Modulation Characteristics

#### 3.1. Test Plots







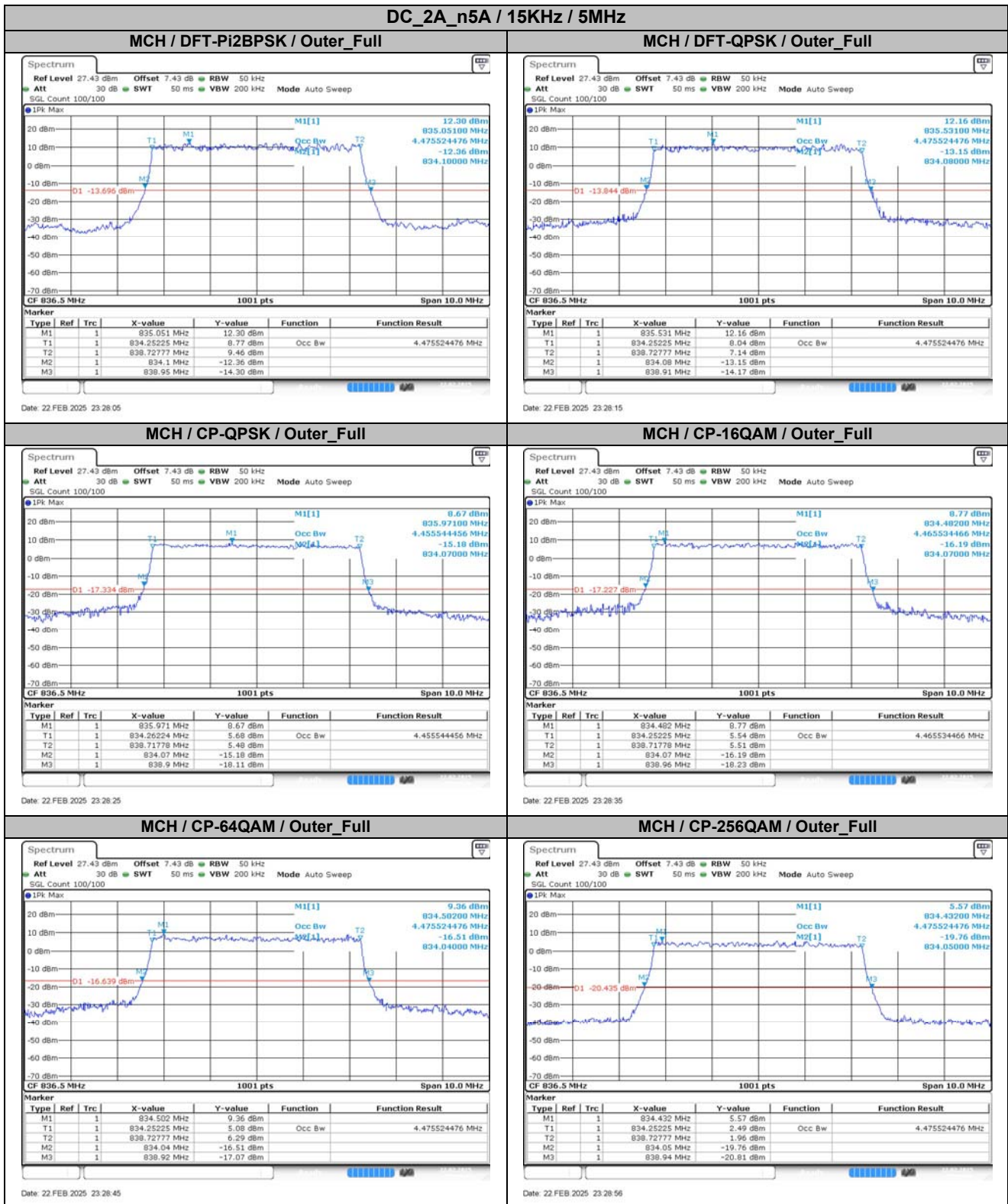


### 4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

#### 4.1. Test Results

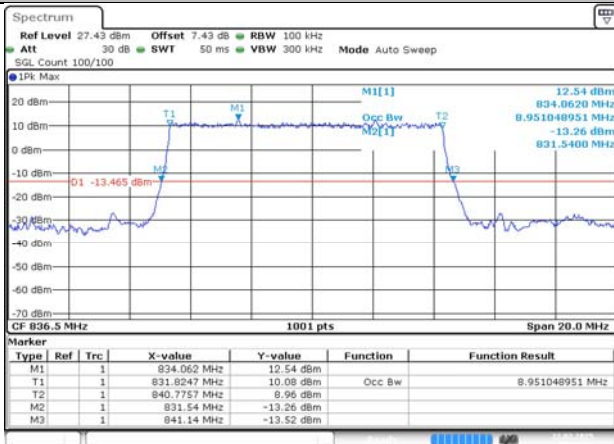
Bandwidth	Modulation	RB	99% Occupied Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		Verdict
			15KHz	30KHz	15KHz	30KHz	
5MHz	DFT-Pi2BPSK	Outer_Full	4.48	N/A	4.85	N/A	Pass
5MHz	DFT-QPSK	Outer_Full	4.48	N/A	4.83	N/A	Pass
5MHz	CP-QPSK	Outer_Full	4.46	N/A	4.83	N/A	Pass
5MHz	CP-16QAM	Outer_Full	4.47	N/A	4.89	N/A	Pass
5MHz	CP-64QAM	Outer_Full	4.48	N/A	4.88	N/A	Pass
5MHz	CP-256QAM	Outer_Full	4.48	N/A	4.89	N/A	Pass
10MHz	DFT-Pi2BPSK	Outer_Full	8.95	8.59	9.60	9.38	Pass
10MHz	DFT-QPSK	Outer_Full	8.91	8.59	9.44	9.44	Pass
10MHz	CP-QPSK	Outer_Full	9.27	8.59	9.80	9.56	Pass
10MHz	CP-16QAM	Outer_Full	9.29	8.59	9.92	9.42	Pass
10MHz	CP-64QAM	Outer_Full	9.31	8.59	9.94	9.52	Pass
10MHz	CP-256QAM	Outer_Full	9.29	8.57	9.94	9.42	Pass
15MHz	DFT-Pi2BPSK	Outer_Full	13.43	12.92	14.19	14.25	Pass
15MHz	DFT-QPSK	Outer_Full	13.43	12.92	14.31	14.10	Pass
15MHz	CP-QPSK	Outer_Full	14.12	13.58	14.91	14.76	Pass
15MHz	CP-16QAM	Outer_Full	14.15	13.61	14.97	14.85	Pass
15MHz	CP-64QAM	Outer_Full	14.12	13.61	14.91	14.85	Pass
15MHz	CP-256QAM	Outer_Full	14.12	13.61	14.82	14.85	Pass
20MHz	DFT-Pi2BPSK	Outer_Full	17.86	17.86	19.08	19.28	Pass
20MHz	DFT-QPSK	Outer_Full	17.86	17.86	19.00	19.04	Pass
20MHz	CP-QPSK	Outer_Full	18.90	18.22	19.92	19.64	Pass
20MHz	CP-16QAM	Outer_Full	18.94	18.22	20.00	19.60	Pass
20MHz	CP-64QAM	Outer_Full	18.86	18.26	19.96	19.68	Pass
20MHz	CP-256QAM	Outer_Full	18.94	18.26	20.00	19.56	Pass

4.2. Test Plots for SCS=15KHz



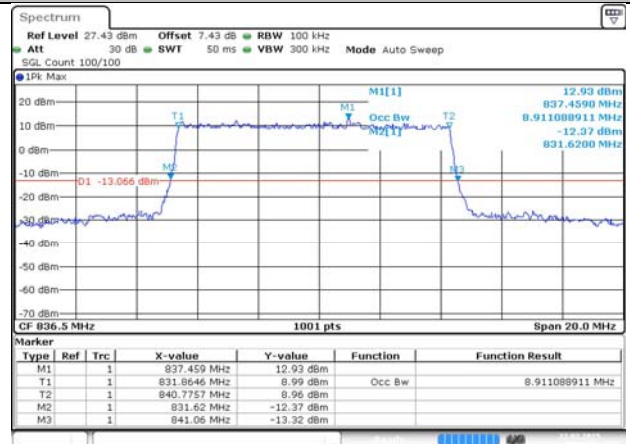
DC\_2A\_n5A / 15KHz / 10MHz

MCH / DFT-Pi2BPSK / Outer\_Full



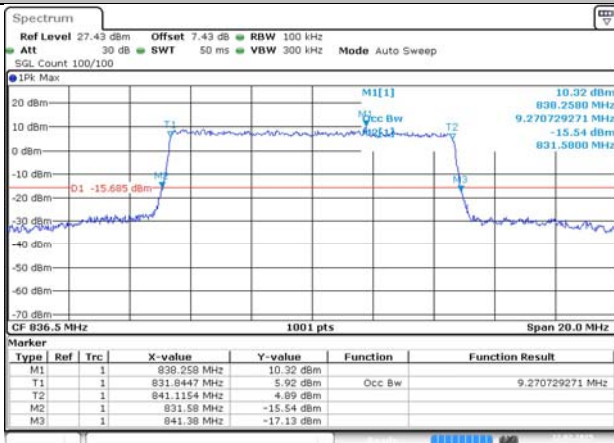
Date: 22.FEB.2025 23:29:10

MCH / DFT-QPSK / Outer\_Full



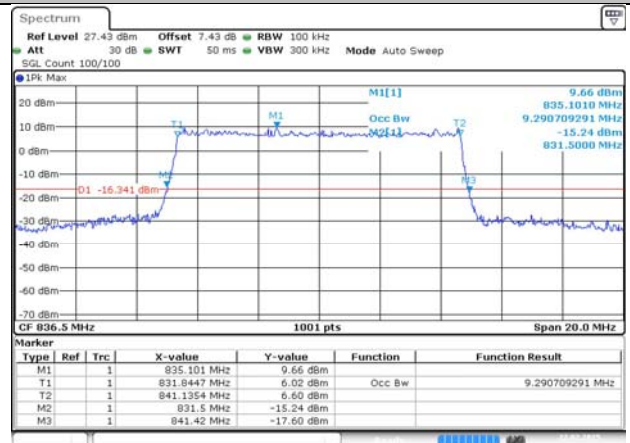
Date: 22.FEB.2025 23:29:20

MCH / CP-QPSK / Outer\_Full



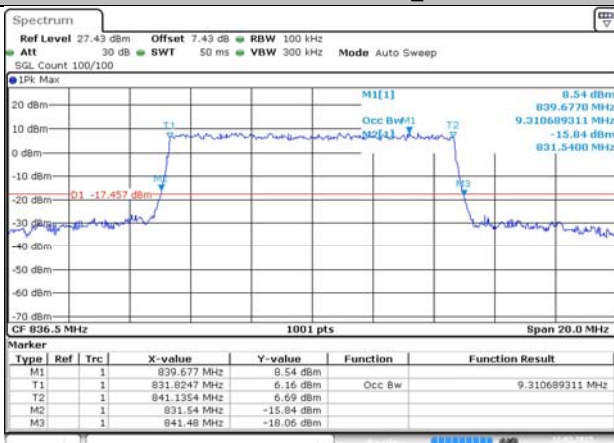
Date: 22.FEB.2025 23:29:30

MCH / CP-16QAM / Outer\_Full



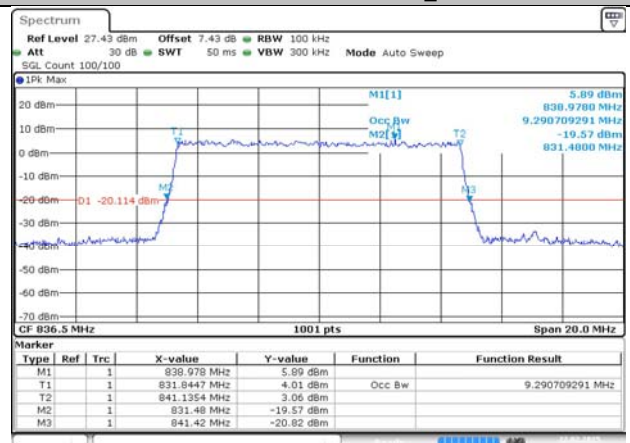
Date: 22.FEB.2025 23:29:40

MCH / CP-64QAM / Outer\_Full



Date: 22.FEB.2025 23:29:50

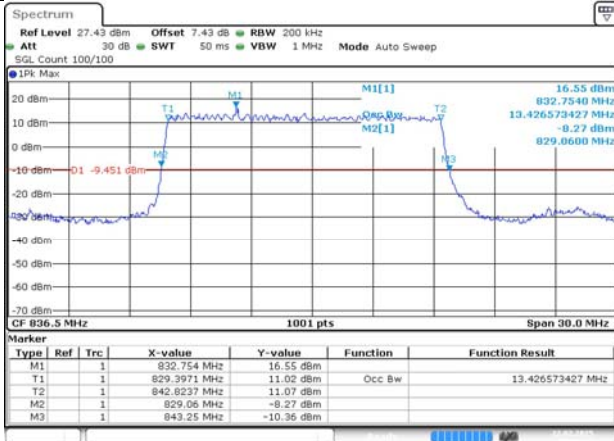
MCH / CP-256QAM / Outer\_Full



Date: 22.FEB.2025 23:30:02

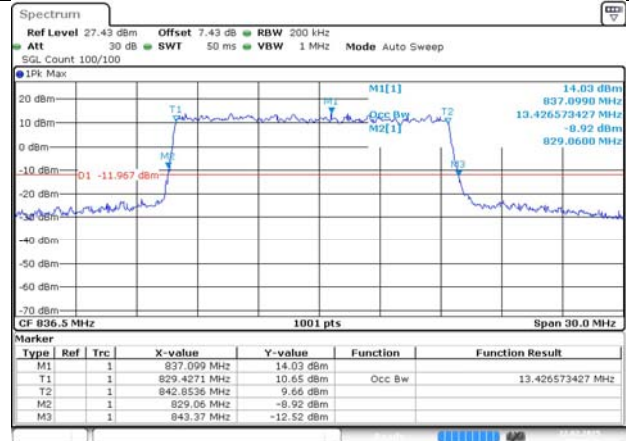
DC\_2A\_n5A / 15KHz / 15MHz

MCH / DFT-Pi2BPSK / Outer\_Full



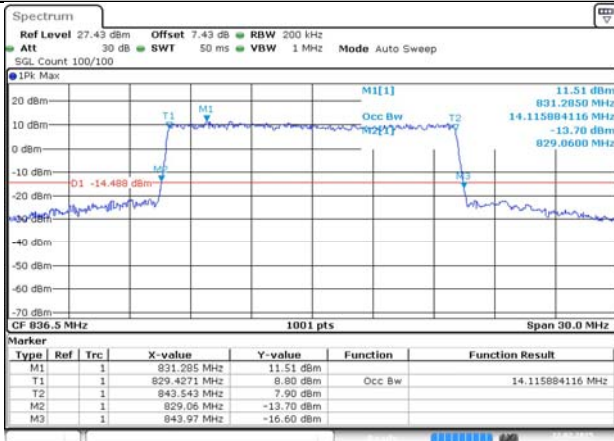
Date: 22 FEB 2025 23:30:16

MCH / DFT-QPSK / Outer\_Full



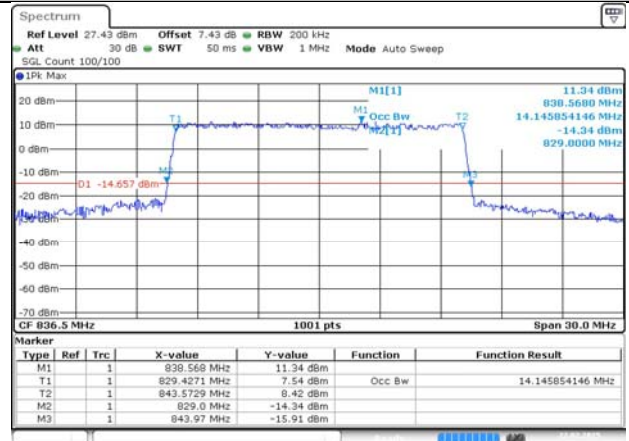
Date: 22 FEB 2025 23:30:26

MCH / CP-QPSK / Outer\_Full



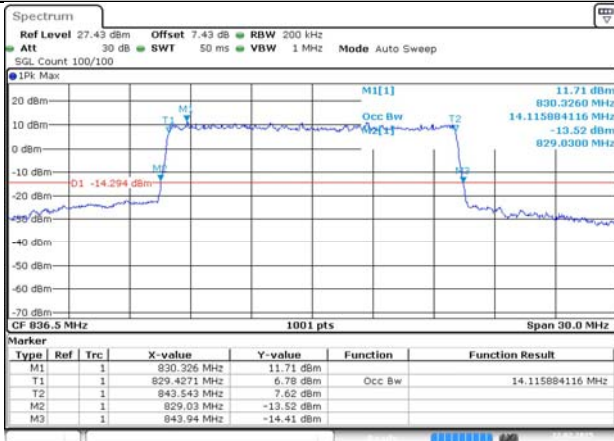
Date: 22 FEB 2025 23:30:37

MCH / CP-16QAM / Outer\_Full



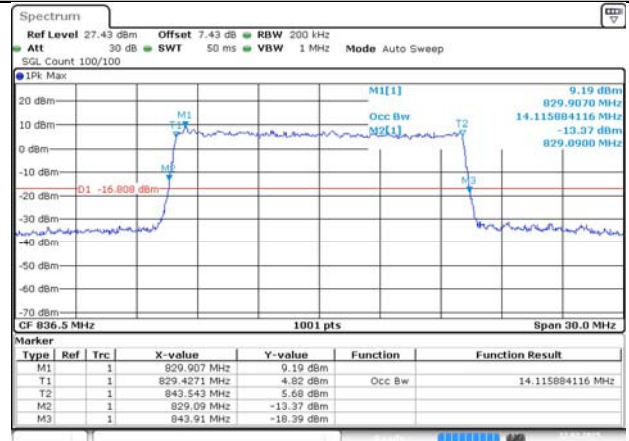
Date: 22 FEB 2025 23:30:48

MCH / CP-64QAM / Outer\_Full

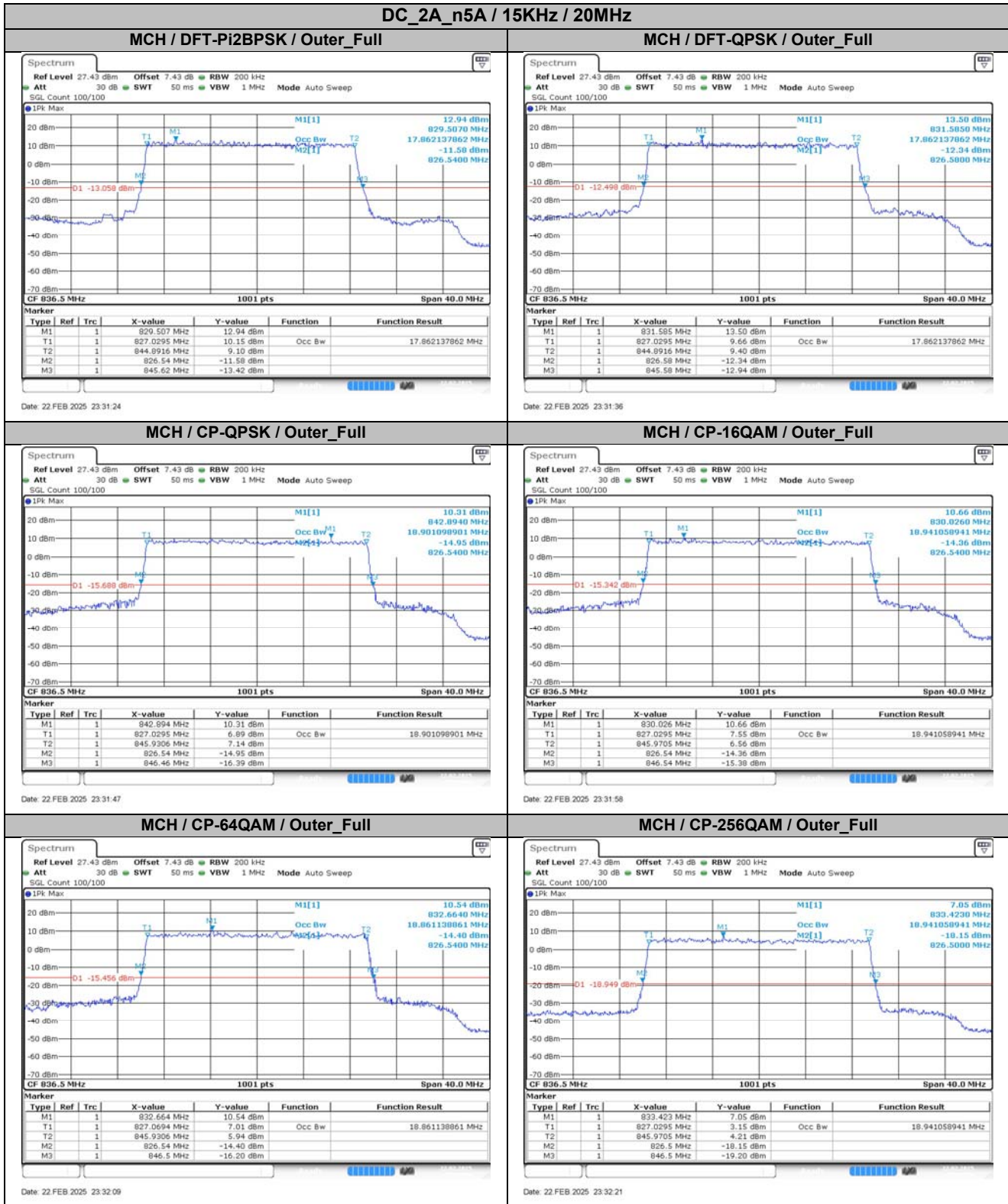


Date: 22 FEB 2025 23:30:58

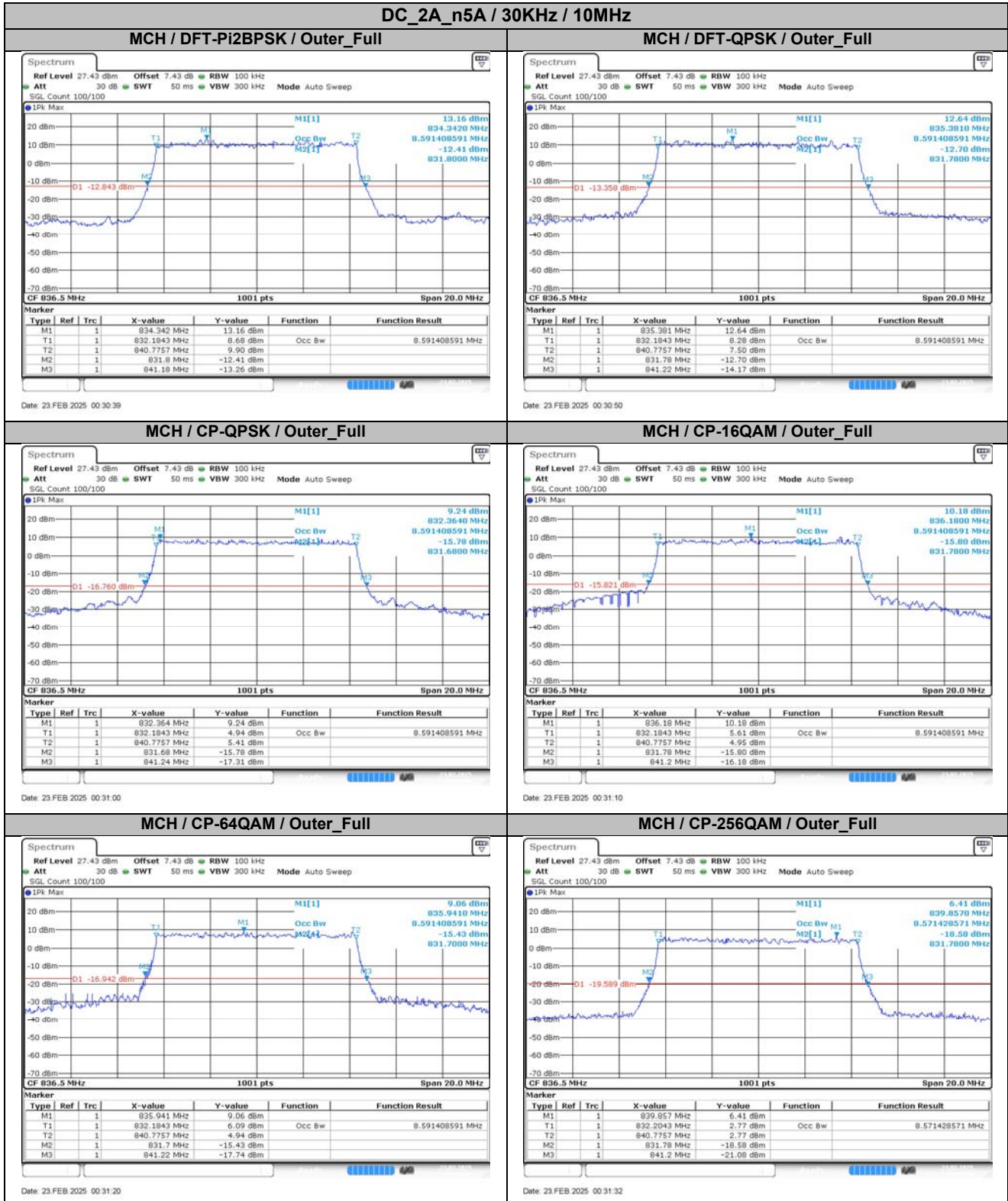
MCH / CP-256QAM / Outer\_Full



Date: 22 FEB 2025 23:31:10

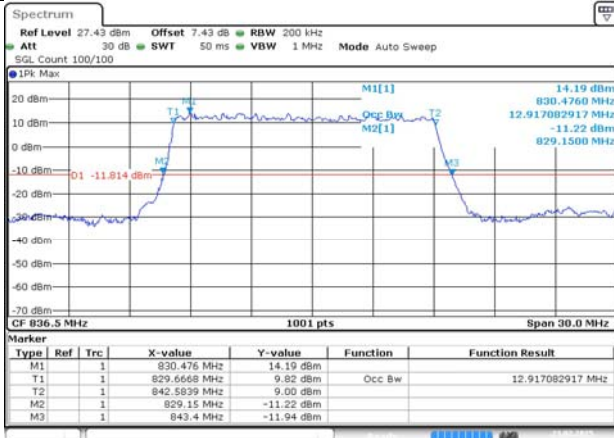


4.3. Test Plots for SCS=30KHz



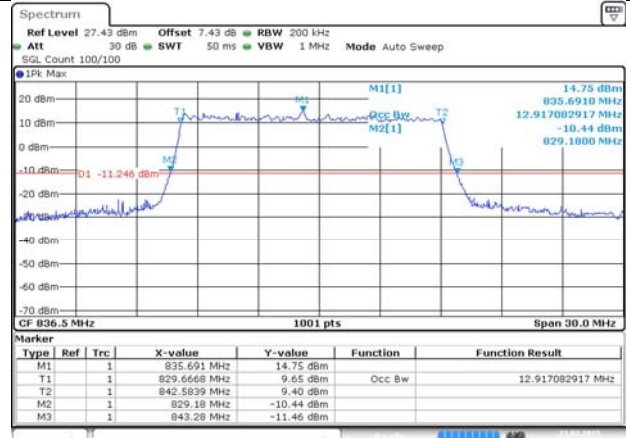
DC\_2A\_n5A / 30KHz / 15MHz

MCH / DFT-Pi2BPSK / Outer\_Full



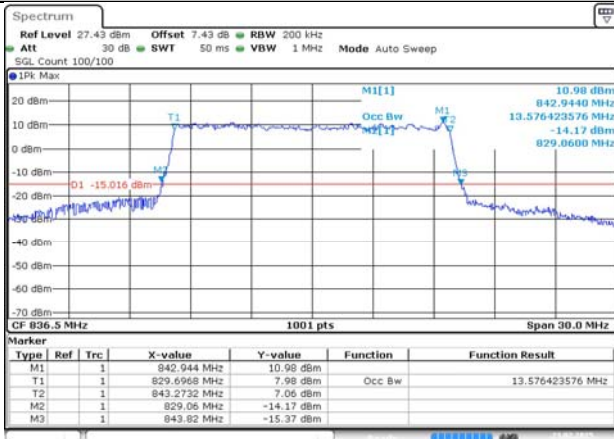
Date: 23.FEB.2025 00:31:45

MCH / DFT-QPSK / Outer\_Full



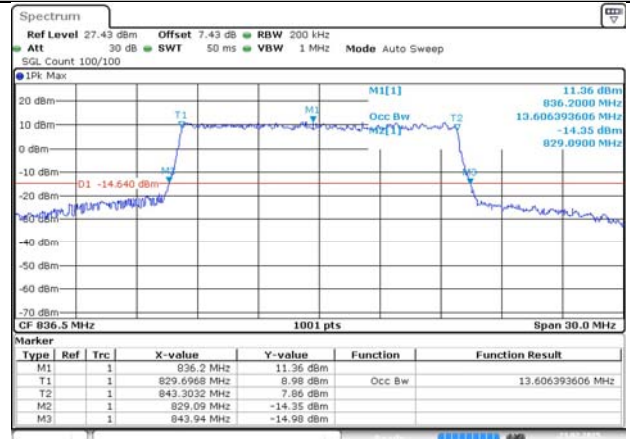
Date: 23.FEB.2025 00:31:56

MCH / CP-QPSK / Outer\_Full



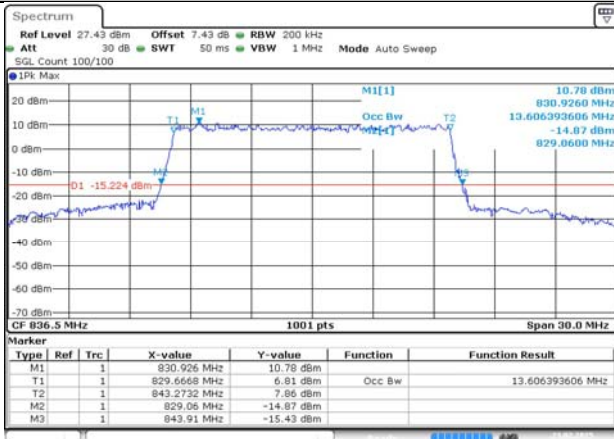
Date: 23.FEB.2025 00:32:06

MCH / CP-16QAM / Outer\_Full



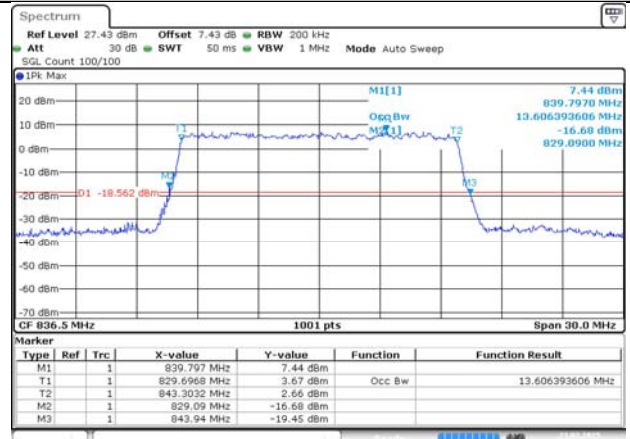
Date: 23.FEB.2025 00:32:17

MCH / CP-64QAM / Outer\_Full



Date: 23.FEB.2025 00:32:28

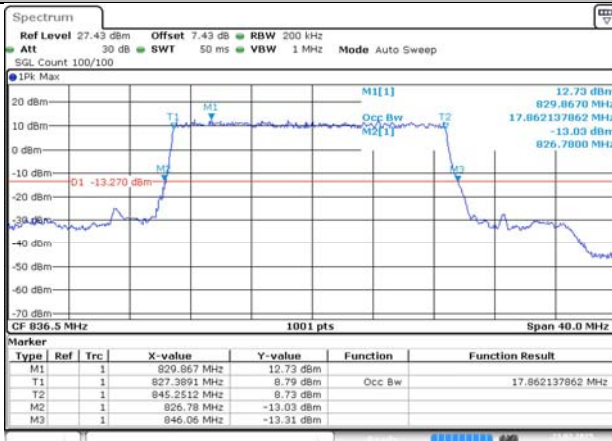
MCH / CP-256QAM / Outer\_Full



Date: 23.FEB.2025 00:32:40

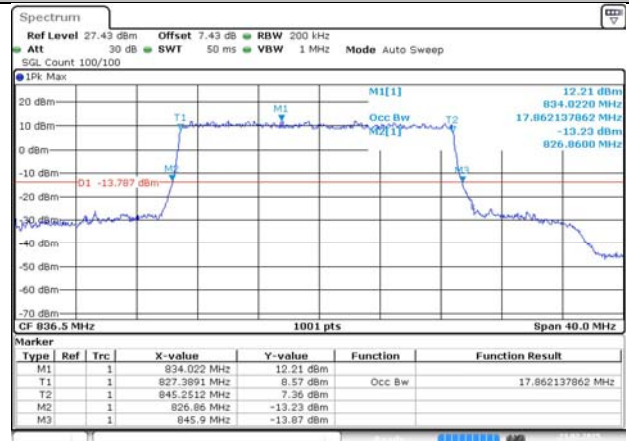
DC\_2A\_n5A / 30KHz / 20MHz

MCH / DFT-Pi2BPSK / Outer\_Full



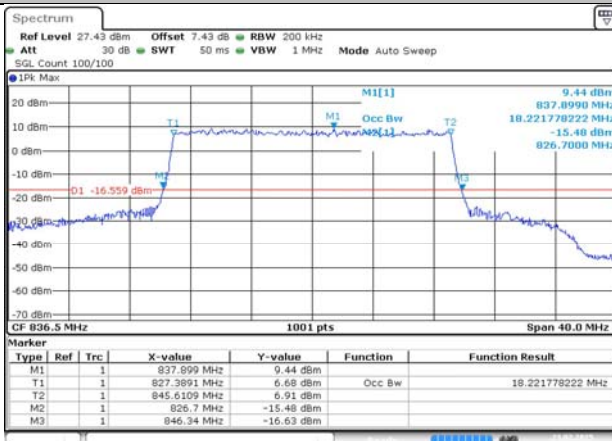
Date: 23.FEB.2025 00:32:54

MCH / DFT-QPSK / Outer\_Full



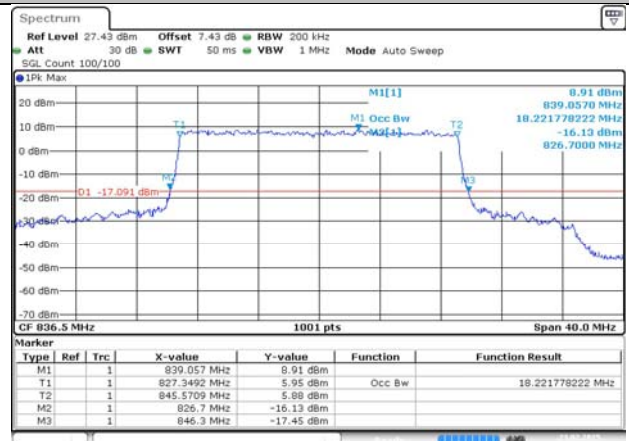
Date: 23.FEB.2025 00:33:05

MCH / CP-QPSK / Outer\_Full



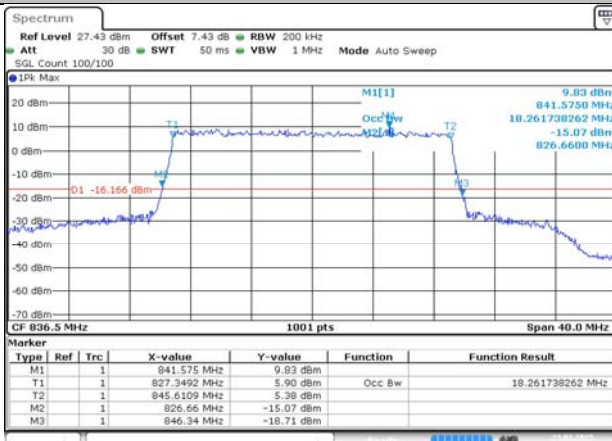
Date: 23.FEB.2025 00:33:16

MCH / CP-16QAM / Outer\_Full



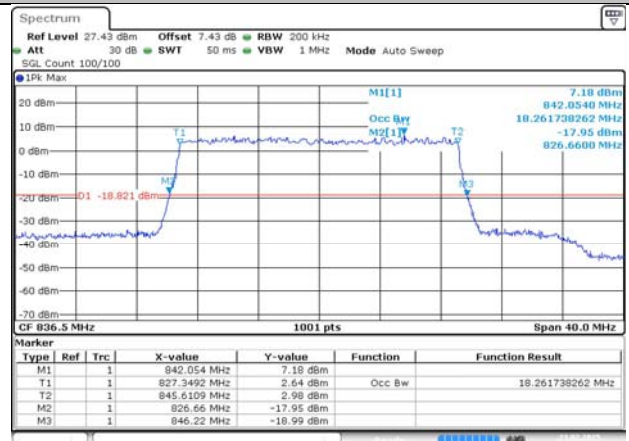
Date: 23.FEB.2025 00:33:27

MCH / CP-64QAM / Outer\_Full



Date: 23.FEB.2025 00:33:38

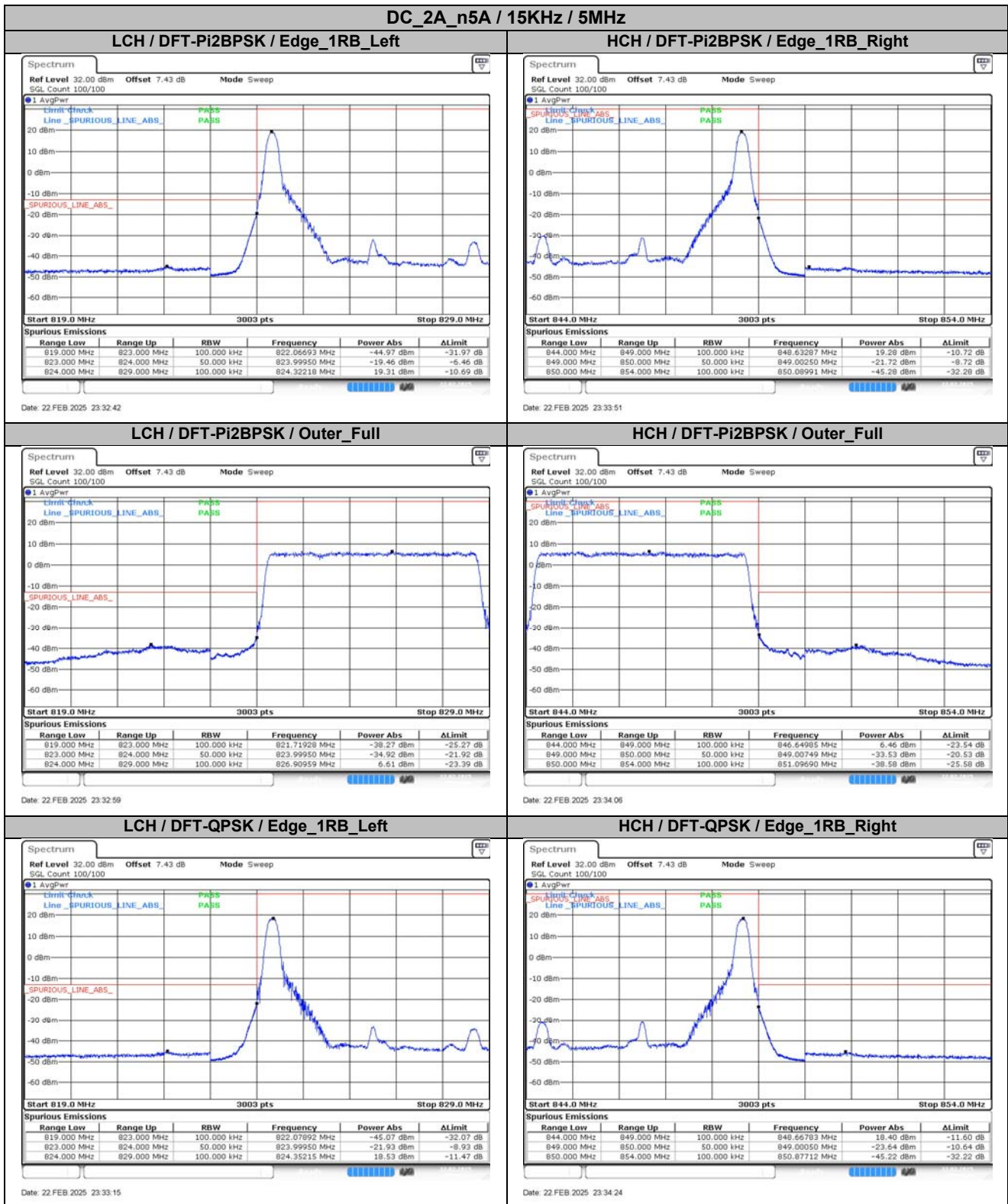
MCH / CP-256QAM / Outer\_Full

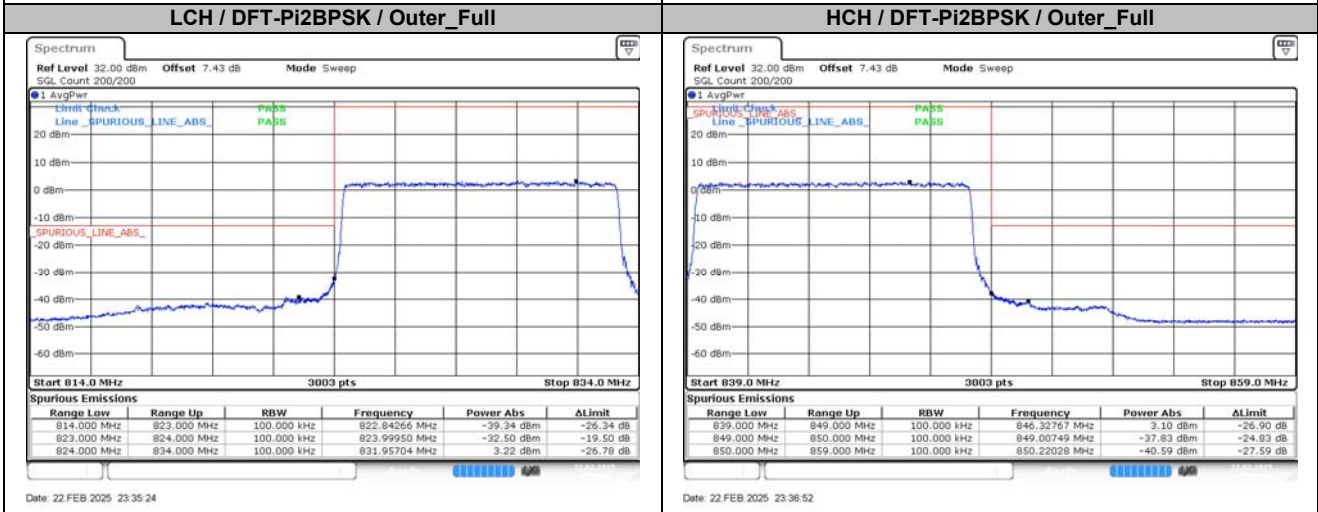
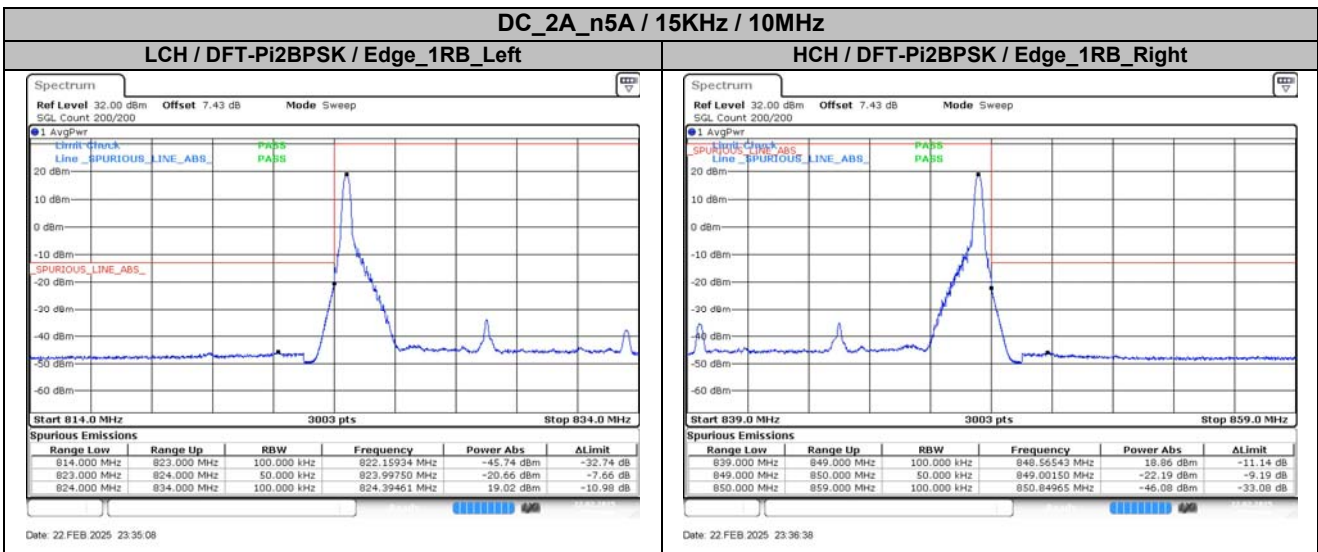
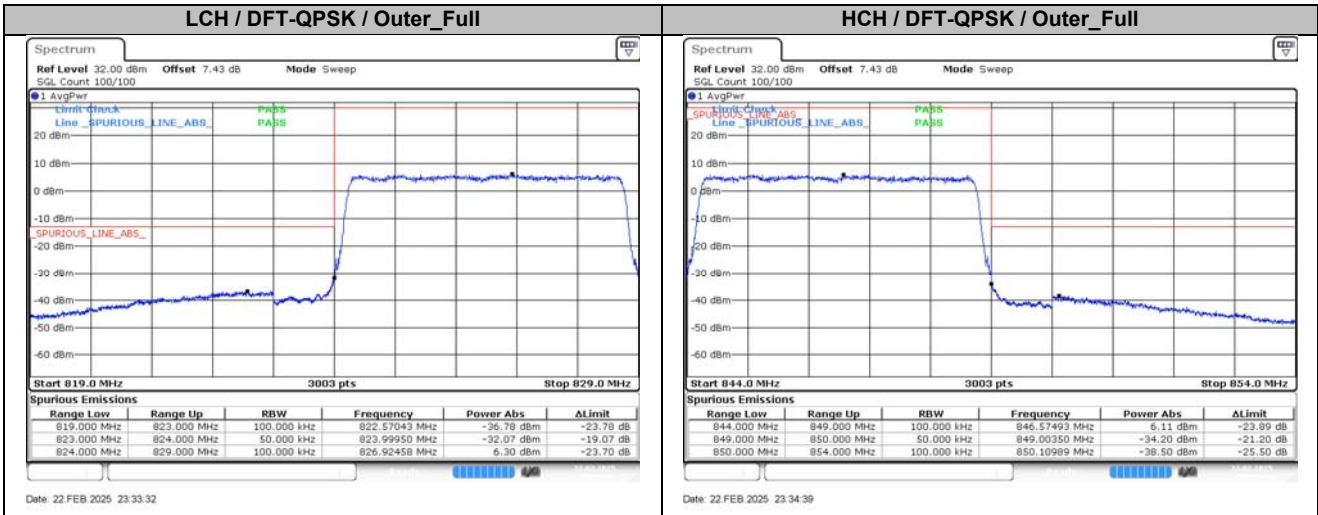


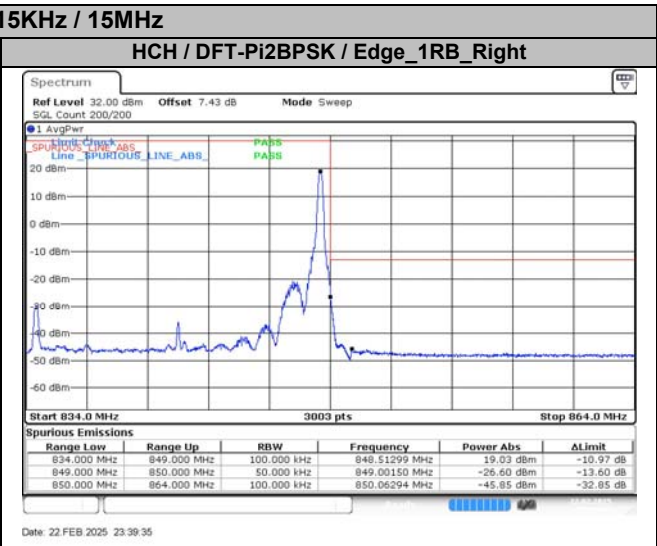
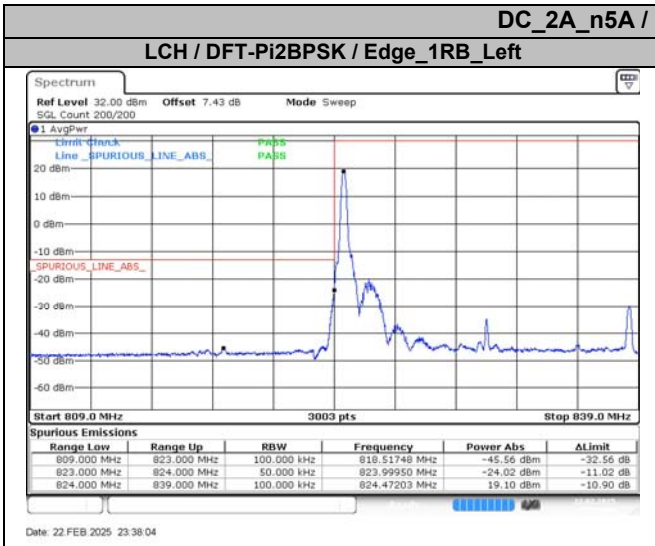
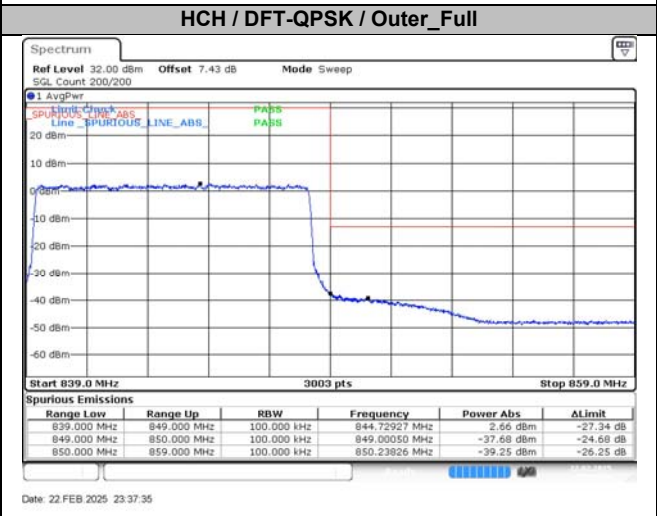
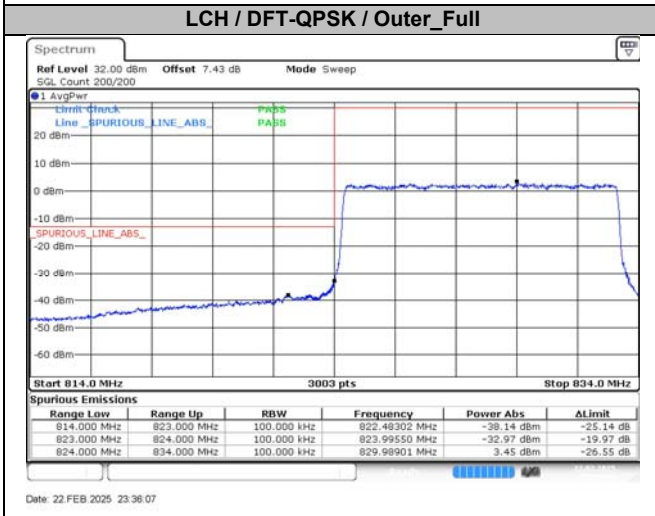
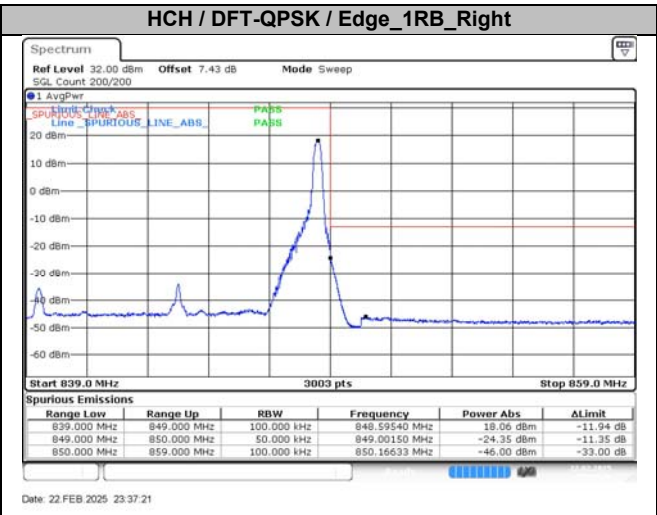
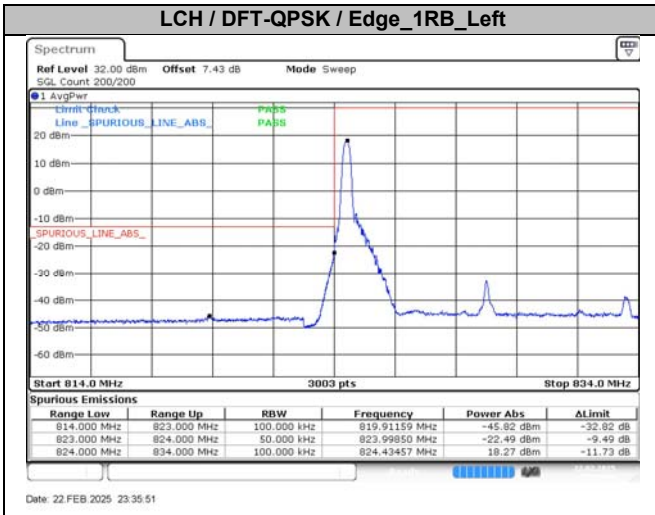
Date: 23.FEB.2025 00:33:50

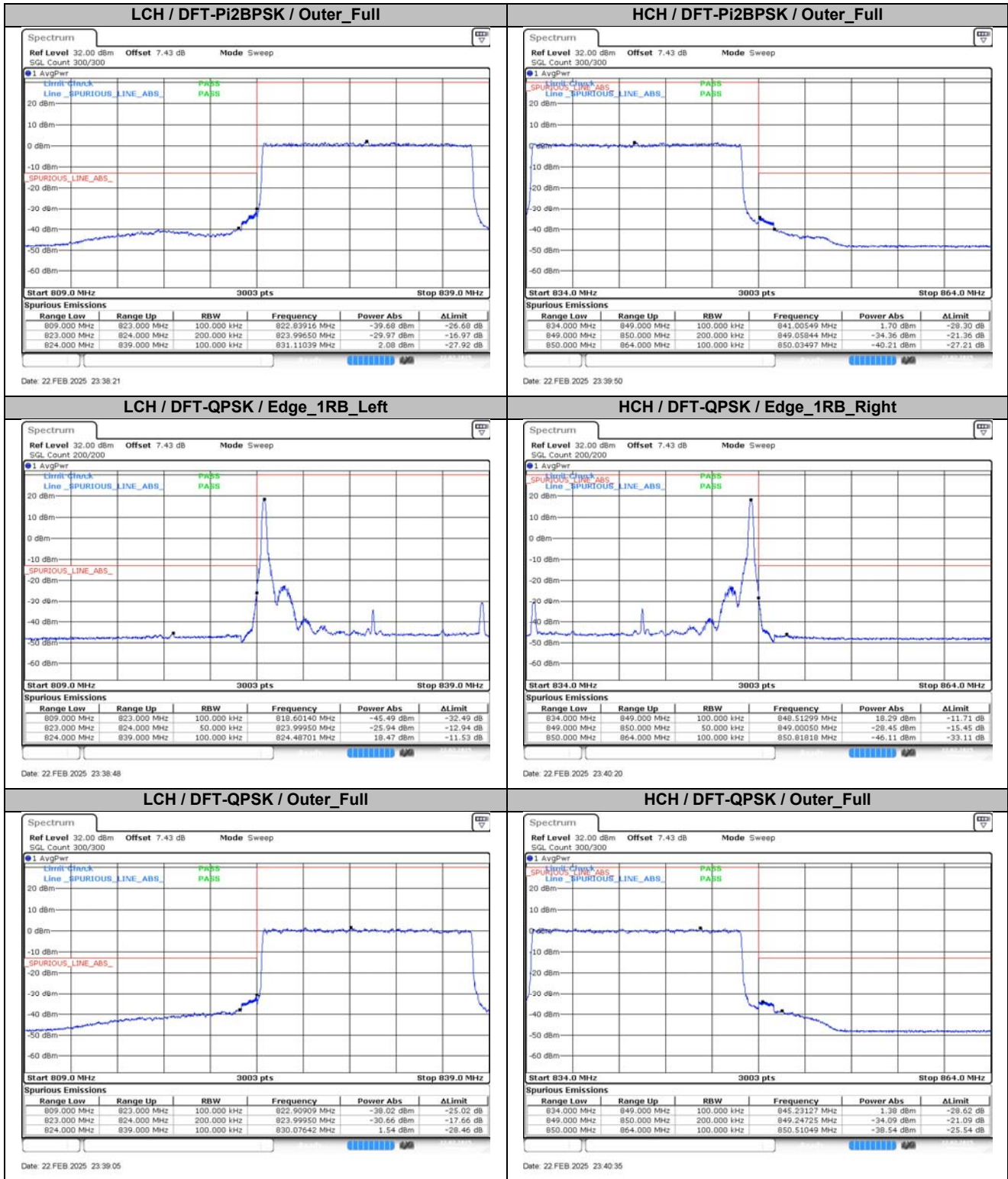
### 5. Conducted Band Edges

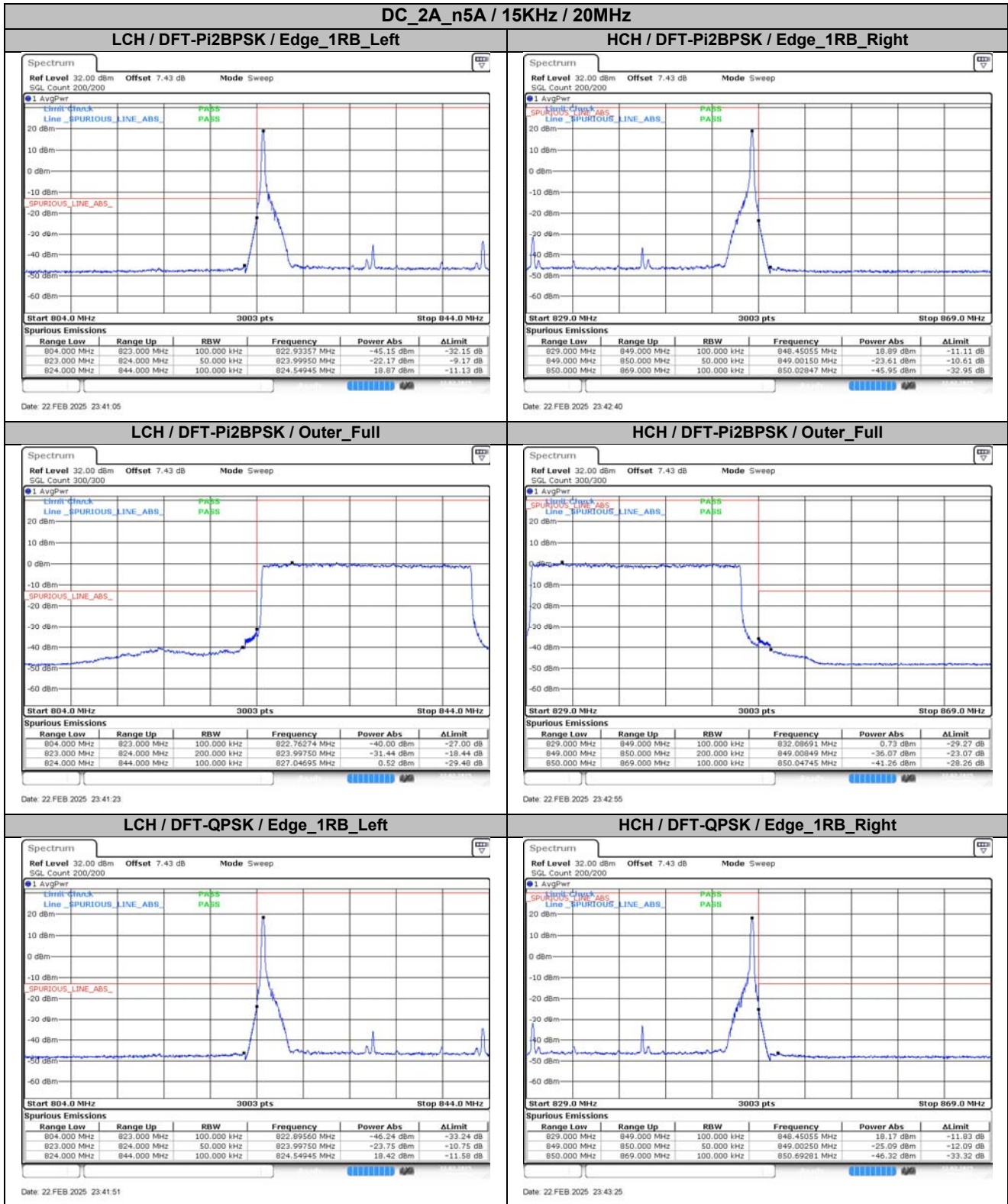
#### 5.1. Test Plots for SCS=15KHz

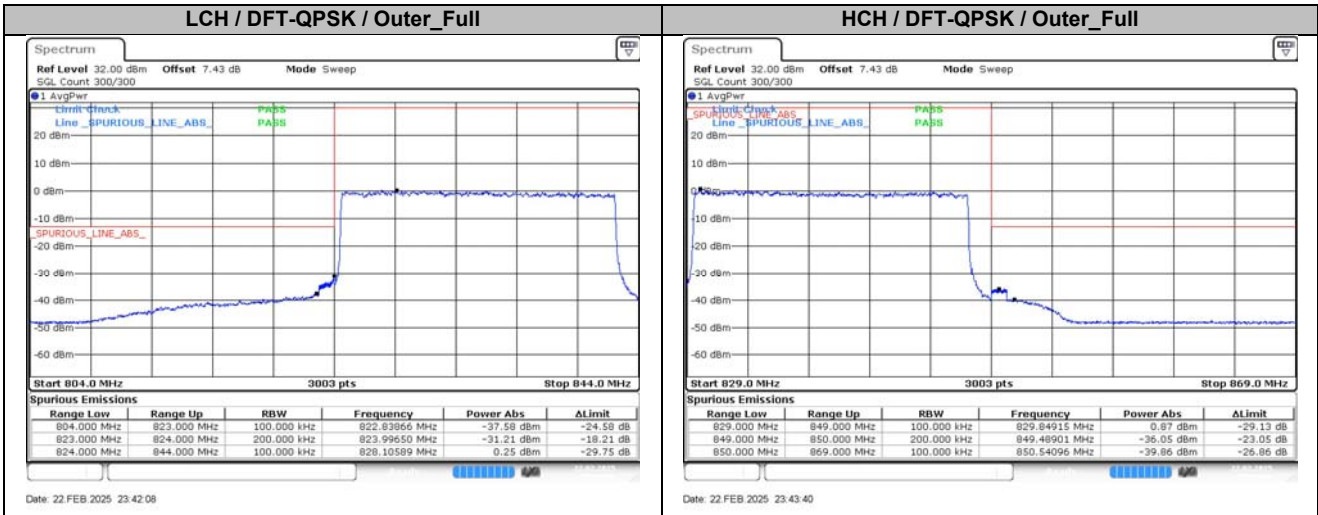












## 5.2. Test Plots for SCS=30KHz

