

**Appendix  
for  
n7A  
(2500-2570)**

## Catalogue

<b>1.</b>	<b>EFFECTIVE ISOTROPIC RADIATED POWER .....</b>	<b>3</b>
1.1.	TEST RESULTS @ ANT1 (ANTENNA GAIN=-3.00DBI).....	3
<b>2.</b>	<b>PEAK-TO-AVERAGE RATIO .....</b>	<b>5</b>
2.1.	TEST RESULTS .....	5
2.2.	TEST PLOTS.....	5
<b>3.</b>	<b>MODULATION CHARACTERISTICS .....</b>	<b>6</b>
3.1.	TEST PLOTS.....	6
<b>4.</b>	<b>99% OCCUPIED BANDWIDTH &amp; 26DB EMISSION BANDWIDTH .....</b>	<b>8</b>
4.1.	TEST RESULTS .....	8
4.2.	TEST PLOTS.....	9
<b>5.</b>	<b>CONDUCTED BAND EDGES .....</b>	<b>16</b>
5.1.	TEST PLOTS.....	16
<b>6.</b>	<b>CONDUCTED SPURIOUS EMISSION .....</b>	<b>25</b>
6.1.	TEST PLOTS.....	25
<b>7.</b>	<b>FREQUENCY STABILITY .....</b>	<b>32</b>
7.1.	TEST RESULTS .....	32

## 1. Effective Isotropic Radiated Power

### 1.1. Test Results @ Ant1 (Antenna Gain=-3.00dBi)

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	23.12	23.13	23.09	20.13	33.00	Pass
15KHz	5MHz	LCH	DFT-QPSK	23.13	23.35	23.09	20.35	33.00	Pass
15KHz	5MHz	LCH	DFT-16QAM	22.05	22.23	22.26	19.26	33.00	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.89	20.77	20.70	17.89	33.00	Pass
15KHz	5MHz	LCH	DFT-256QAM	17.92	18.05	18.62	15.62	33.00	Pass
15KHz	5MHz	LCH	CP-QPSK	21.65	21.82	21.49	18.82	33.00	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	23.20	23.17	23.17	20.20	33.00	Pass
15KHz	5MHz	MCH	DFT-QPSK	23.13	23.19	23.22	20.22	33.00	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.06	22.34	22.14	19.34	33.00	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.77	20.78	20.69	17.78	33.00	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.12	18.20	18.68	15.68	33.00	Pass
15KHz	5MHz	MCH	CP-QPSK	21.79	22.07	21.63	19.07	33.00	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	23.23	23.28	23.27	20.28	33.00	Pass
15KHz	5MHz	HCH	DFT-QPSK	23.36	23.29	23.24	20.36	33.00	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.22	22.19	22.23	19.23	33.00	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.82	20.93	21.00	18.00	33.00	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.19	18.28	18.77	15.77	33.00	Pass
15KHz	5MHz	HCH	CP-QPSK	21.93	21.81	21.67	18.93	33.00	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	23.21	23.06	23.16	20.21	33.00	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.06	23.33	23.22	20.33	33.00	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.34	22.26	22.25	19.34	33.00	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.70	20.79	20.73	17.79	33.00	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.00	18.07	18.68	15.68	33.00	Pass
15KHz	10MHz	LCH	CP-QPSK	21.67	21.60	21.33	18.67	33.00	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	23.15	23.19	23.06	20.19	33.00	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.33	23.20	23.07	20.33	33.00	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.19	22.14	22.18	19.19	33.00	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.74	20.82	20.58	17.82	33.00	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.10	18.14	18.58	15.58	33.00	Pass
15KHz	10MHz	MCH	CP-QPSK	21.62	21.77	21.63	18.77	33.00	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.26	23.26	23.24	20.26	33.00	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.22	23.29	23.22	20.29	33.00	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.26	22.52	22.26	19.52	33.00	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.94	20.89	20.59	17.94	33.00	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.25	18.25	18.70	15.70	33.00	Pass
15KHz	10MHz	HCH	CP-QPSK	21.80	21.82	21.67	18.82	33.00	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.08	23.19	23.15	20.19	33.00	Pass
15KHz	15MHz	LCH	DFT-QPSK	23.13	23.14	23.17	20.17	33.00	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.17	22.15	22.24	19.24	33.00	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.95	20.87	20.72	17.95	33.00	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.03	18.09	18.62	15.62	33.00	Pass
15KHz	15MHz	LCH	CP-QPSK	21.65	21.71	21.62	18.71	33.00	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	23.20	23.28	23.20	20.28	33.00	Pass
15KHz	15MHz	MCH	DFT-QPSK	23.14	23.23	23.19	20.23	33.00	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.22	22.28	22.25	19.28	33.00	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.86	20.96	20.73	17.96	33.00	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.16	18.16	18.59	15.59	33.00	Pass
15KHz	15MHz	MCH	CP-QPSK	21.77	21.78	21.67	18.78	33.00	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	23.32	23.25	23.25	20.32	33.00	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.33	23.31	23.23	20.33	33.00	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.29	22.32	22.31	19.32	33.00	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.91	21.01	20.85	18.01	33.00	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.24	18.23	18.70	15.70	33.00	Pass
15KHz	15MHz	HCH	CP-QPSK	21.74	21.80	21.75	18.80	33.00	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	23.12	23.18	23.16	20.18	33.00	Pass
15KHz	20MHz	LCH	DFT-QPSK	23.18	23.17	23.18	20.18	33.00	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.21	22.17	22.18	19.21	33.00	Pass
15KHz	20MHz	LCH	DFT-64QAM	20.91	20.86	20.72	17.91	33.00	Pass

15KHz	20MHz	LCH	DFT-256QAM	18.03	18.08	18.67	15.67	33.00	Pass
15KHz	20MHz	LCH	CP-QPSK	21.73	21.63	21.71	18.73	33.00	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.18	23.27	23.23	20.27	33.00	Pass
15KHz	20MHz	MCH	DFT-QPSK	23.08	23.26	23.25	20.26	33.00	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.16	22.31	22.25	19.31	33.00	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.92	20.95	20.74	17.95	33.00	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.01	18.12	18.62	15.62	33.00	Pass
15KHz	20MHz	MCH	CP-QPSK	21.76	21.66	21.69	18.76	33.00	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	23.20	23.24	23.27	20.27	33.00	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.20	23.27	23.25	20.27	33.00	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.33	22.31	22.24	19.33	33.00	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.96	21.02	20.84	18.02	33.00	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.12	18.25	18.72	15.72	33.00	Pass
15KHz	20MHz	HCH	CP-QPSK	21.71	21.76	21.67	18.76	33.00	Pass
15KHz	25MHz	LCH	DFT-Pi2BPSK	23.17	23.17	23.23	20.23	33.00	Pass
15KHz	25MHz	LCH	DFT-QPSK	23.26	23.26	23.25	20.26	33.00	Pass
15KHz	25MHz	LCH	DFT-16QAM	22.26	22.28	22.21	19.28	33.00	Pass
15KHz	25MHz	LCH	DFT-64QAM	20.91	20.95	20.72	17.95	33.00	Pass
15KHz	25MHz	LCH	DFT-256QAM	18.76	18.38	18.72	15.76	33.00	Pass
15KHz	25MHz	LCH	CP-QPSK	21.76	21.75	21.68	18.76	33.00	Pass
15KHz	25MHz	MCH	DFT-Pi2BPSK	23.14	23.31	23.24	20.31	33.00	Pass
15KHz	25MHz	MCH	DFT-QPSK	23.30	23.28	23.22	20.30	33.00	Pass
15KHz	25MHz	MCH	DFT-16QAM	22.24	22.32	22.23	19.32	33.00	Pass
15KHz	25MHz	MCH	DFT-64QAM	20.87	20.96	20.78	17.96	33.00	Pass
15KHz	25MHz	MCH	DFT-256QAM	18.64	18.33	18.72	15.72	33.00	Pass
15KHz	25MHz	MCH	CP-QPSK	21.77	21.83	21.74	18.83	33.00	Pass
15KHz	25MHz	HCH	DFT-Pi2BPSK	23.27	23.30	23.27	20.30	33.00	Pass
15KHz	25MHz	HCH	DFT-QPSK	23.19	23.31	23.23	20.31	33.00	Pass
15KHz	25MHz	HCH	DFT-16QAM	22.34	22.42	22.22	19.42	33.00	Pass
15KHz	25MHz	HCH	DFT-64QAM	21.01	21.02	20.82	18.02	33.00	Pass
15KHz	25MHz	HCH	DFT-256QAM	18.78	18.46	18.75	15.78	33.00	Pass
15KHz	25MHz	HCH	CP-QPSK	21.77	21.84	21.80	18.84	33.00	Pass
15KHz	30MHz	LCH	DFT-Pi2BPSK	23.10	23.16	23.16	20.16	33.00	Pass
15KHz	30MHz	LCH	DFT-QPSK	23.13	23.21	23.15	20.21	33.00	Pass
15KHz	30MHz	LCH	DFT-16QAM	22.16	22.24	22.09	19.24	33.00	Pass
15KHz	30MHz	LCH	DFT-64QAM	20.89	20.90	20.67	17.90	33.00	Pass
15KHz	30MHz	LCH	DFT-256QAM	18.17	18.21	18.69	15.69	33.00	Pass
15KHz	30MHz	LCH	CP-QPSK	21.71	21.72	21.64	18.72	33.00	Pass
15KHz	30MHz	MCH	DFT-Pi2BPSK	23.03	23.25	23.21	20.25	33.00	Pass
15KHz	30MHz	MCH	DFT-QPSK	23.03	23.23	23.20	20.23	33.00	Pass
15KHz	30MHz	MCH	DFT-16QAM	22.21	22.21	22.16	19.21	33.00	Pass
15KHz	30MHz	MCH	DFT-64QAM	20.85	20.90	20.76	17.90	33.00	Pass
15KHz	30MHz	MCH	DFT-256QAM	18.10	18.22	18.70	15.70	33.00	Pass
15KHz	30MHz	MCH	CP-QPSK	21.69	21.78	21.65	18.78	33.00	Pass
15KHz	30MHz	HCH	DFT-Pi2BPSK	23.26	23.28	23.17	20.28	33.00	Pass
15KHz	30MHz	HCH	DFT-QPSK	23.21	23.29	23.23	20.29	33.00	Pass
15KHz	30MHz	HCH	DFT-16QAM	22.27	22.26	22.18	19.27	33.00	Pass
15KHz	30MHz	HCH	DFT-64QAM	20.88	20.96	20.79	17.96	33.00	Pass
15KHz	30MHz	HCH	DFT-256QAM	18.20	18.32	18.77	15.77	33.00	Pass
15KHz	30MHz	HCH	CP-QPSK	21.69	21.84	21.68	18.84	33.00	Pass
15KHz	40MHz	LCH	DFT-Pi2BPSK	23.11	23.23	23.16	20.23	33.00	Pass
15KHz	40MHz	LCH	DFT-QPSK	23.19	23.25	23.14	20.25	33.00	Pass
15KHz	40MHz	LCH	DFT-16QAM	22.19	22.25	22.16	19.25	33.00	Pass
15KHz	40MHz	LCH	DFT-64QAM	20.87	20.91	20.66	17.91	33.00	Pass
15KHz	40MHz	LCH	DFT-256QAM	18.23	18.27	18.66	15.66	33.00	Pass
15KHz	40MHz	LCH	CP-QPSK	21.69	21.78	21.72	18.78	33.00	Pass
15KHz	40MHz	MCH	DFT-Pi2BPSK	23.14	23.27	23.25	20.27	33.00	Pass
15KHz	40MHz	MCH	DFT-QPSK	23.11	23.20	23.22	20.22	33.00	Pass
15KHz	40MHz	MCH	DFT-16QAM	22.18	22.22	22.25	19.25	33.00	Pass
15KHz	40MHz	MCH	DFT-64QAM	20.84	20.91	20.70	17.91	33.00	Pass
15KHz	40MHz	MCH	DFT-256QAM	18.15	18.32	18.67	15.67	33.00	Pass
15KHz	40MHz	MCH	CP-QPSK	21.60	21.69	21.66	18.69	33.00	Pass

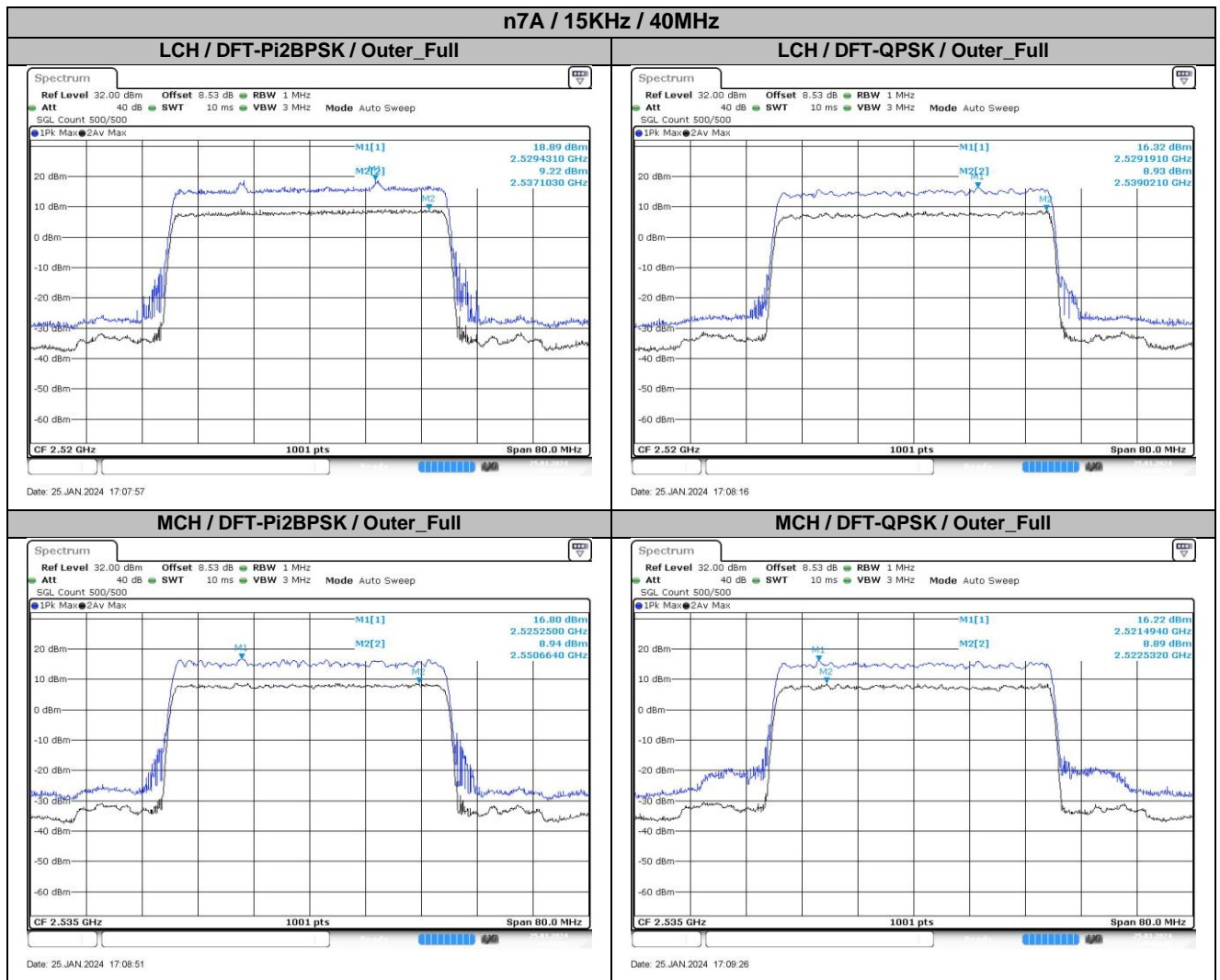
15KHz	40MHz	HCH	DFT-Pi2BPSK	23.26	23.24	23.28	20.28	33.00	Pass
15KHz	40MHz	HCH	DFT-QPSK	23.23	23.35	23.25	20.35	33.00	Pass
15KHz	40MHz	HCH	DFT-16QAM	22.26	22.31	22.26	19.31	33.00	Pass
15KHz	40MHz	HCH	DFT-64QAM	20.92	20.94	20.80	17.94	33.00	Pass
15KHz	40MHz	HCH	DFT-256QAM	18.19	18.38	18.74	15.74	33.00	Pass
15KHz	40MHz	HCH	CP-QPSK	21.67	21.83	21.68	18.83	33.00	Pass

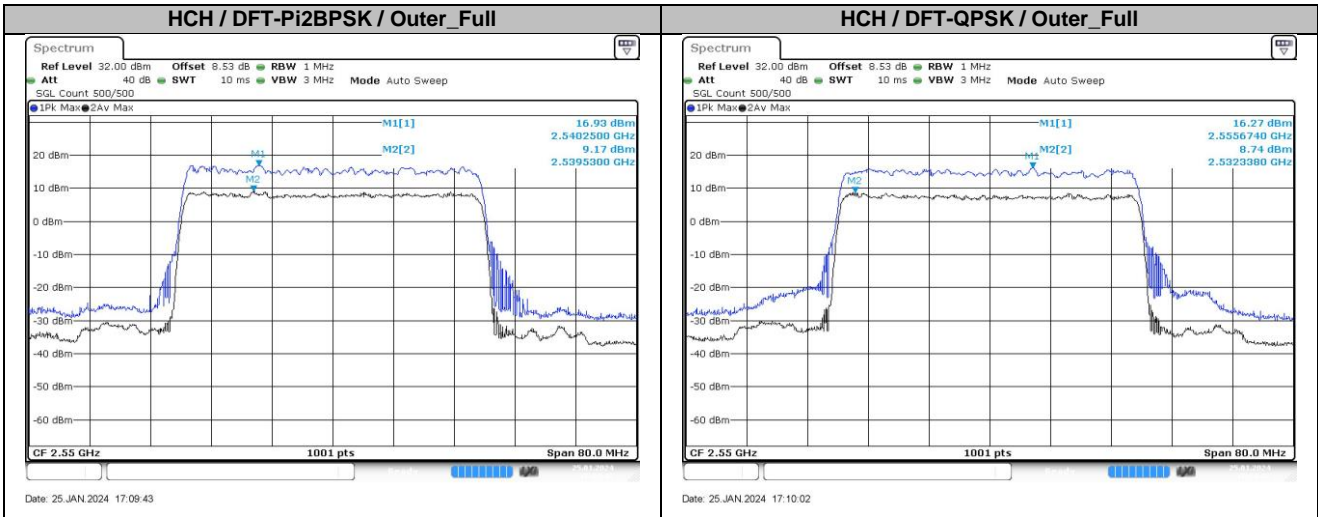
## 2. Peak-to-Average Ratio

### 2.1. Test Results

SCS	Bandwidth	Channel	Modulation	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	40MHz	LCH	Outer_Full	9.67	7.38	13.00	Pass
15KHz	40MHz	MCH	Outer_Full	7.86	7.33	13.00	Pass
15KHz	40MHz	HCH	Outer_Full	7.76	7.53	13.00	Pass

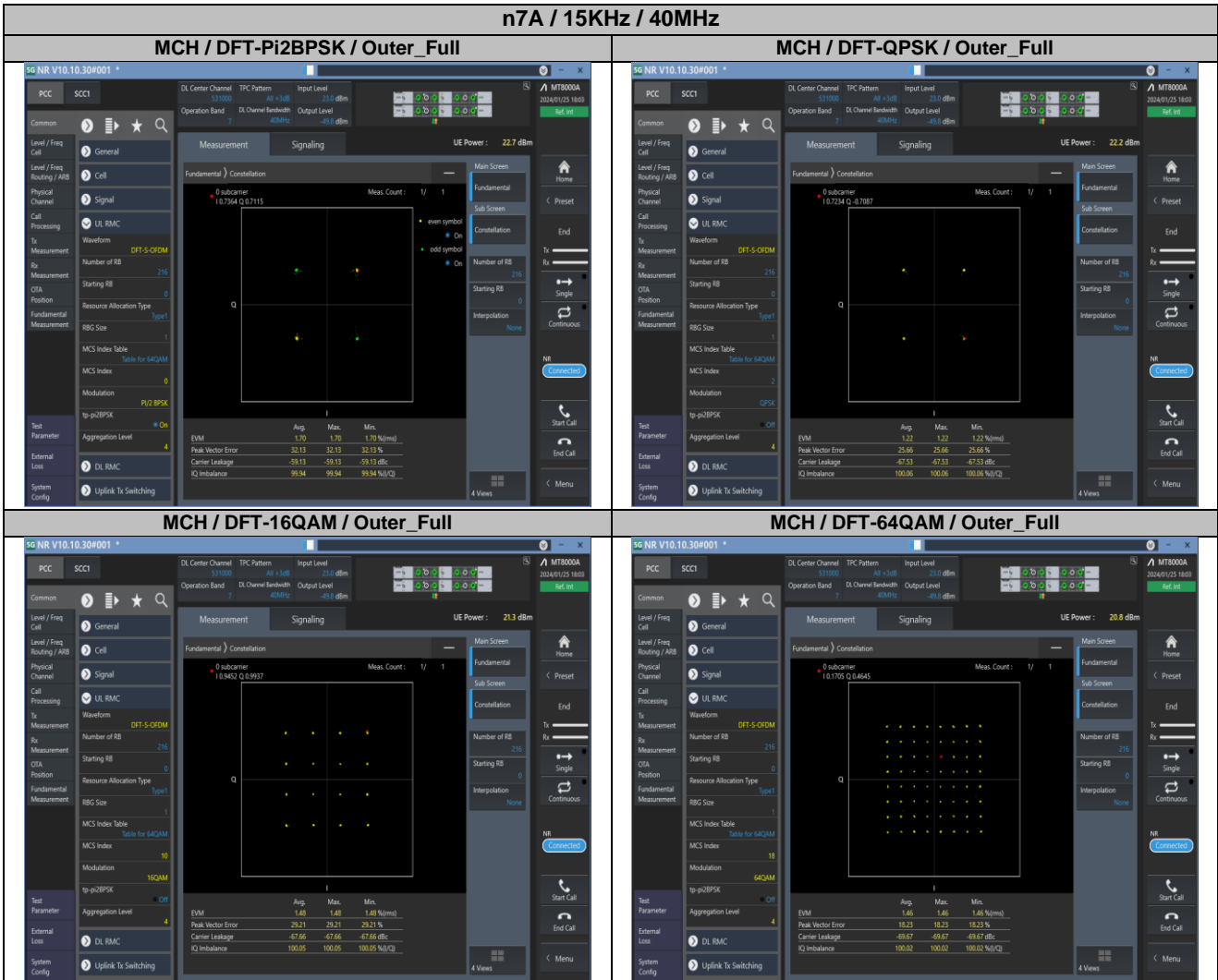
### 2.2. Test Plots

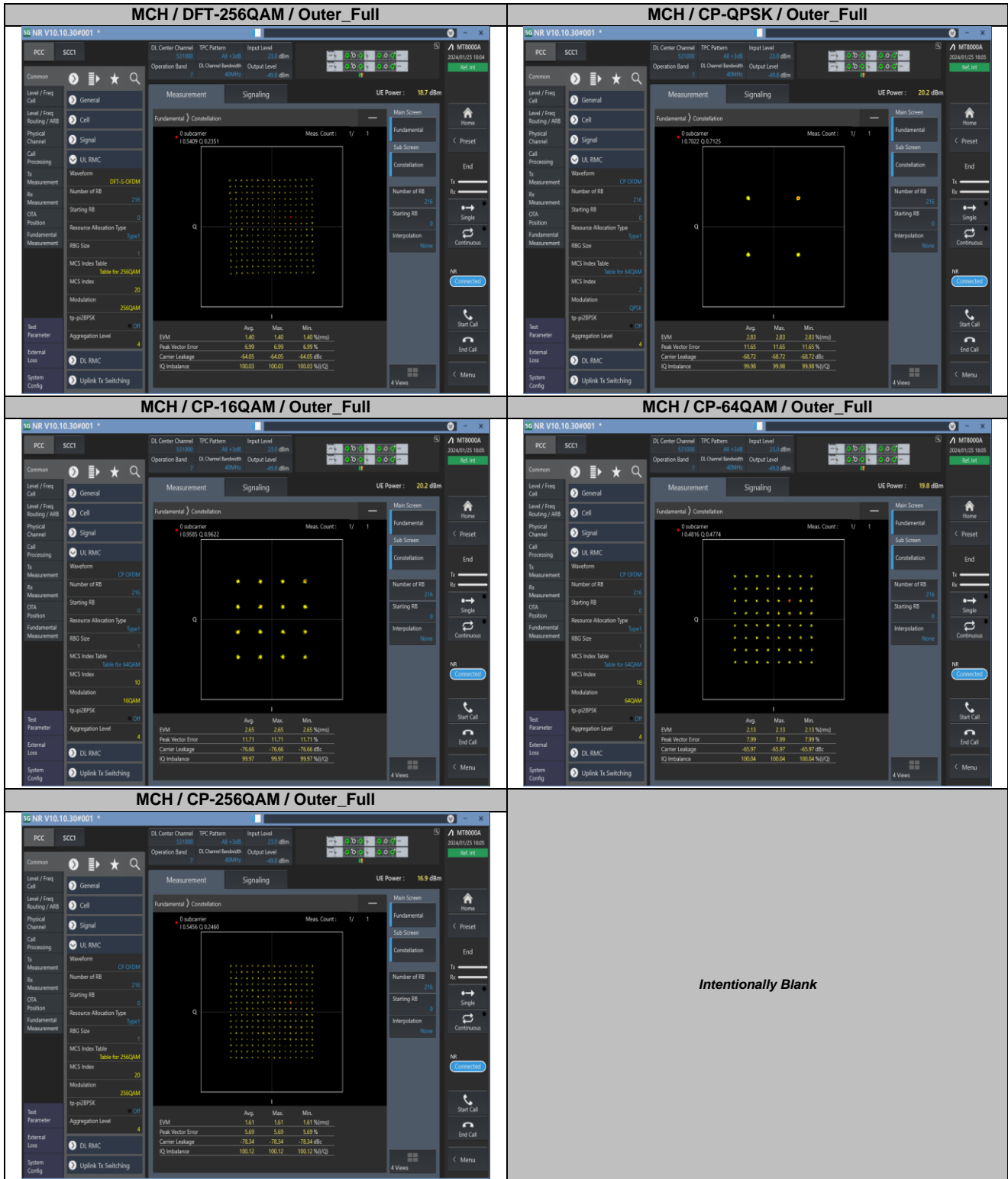




### 3. Modulation Characteristics

#### 3.1. Test Plots





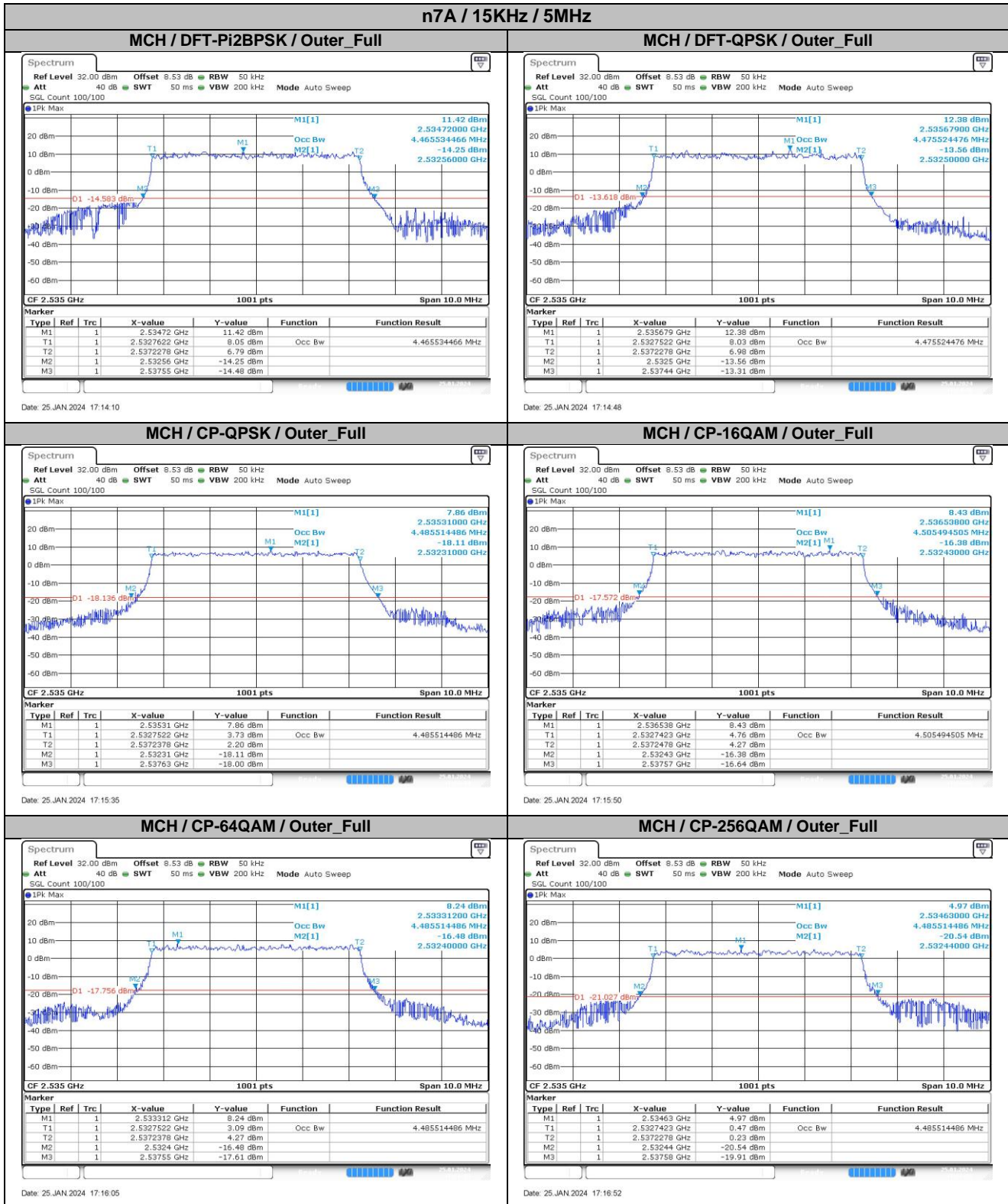
## 4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

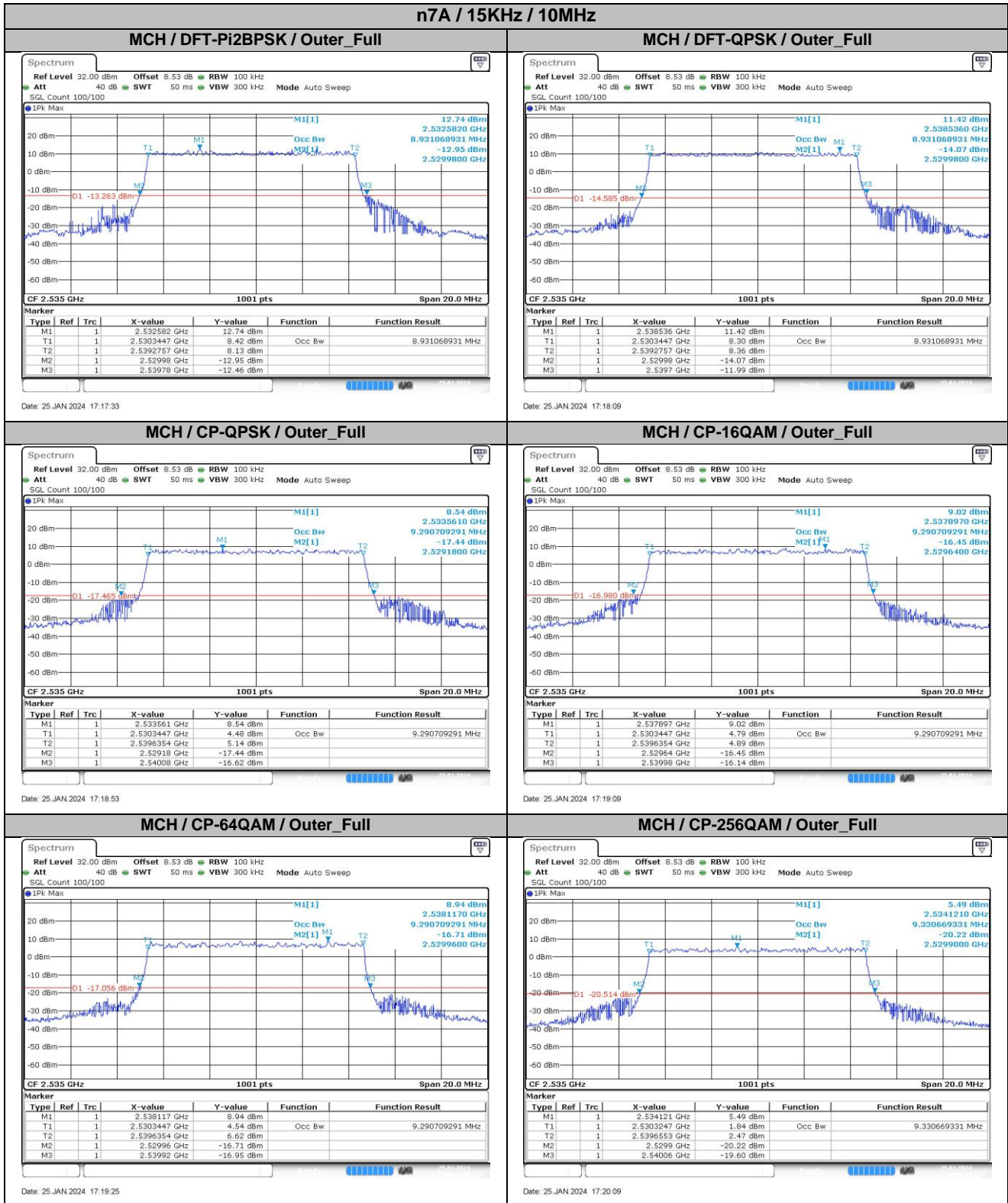
### 4.1. Test Results

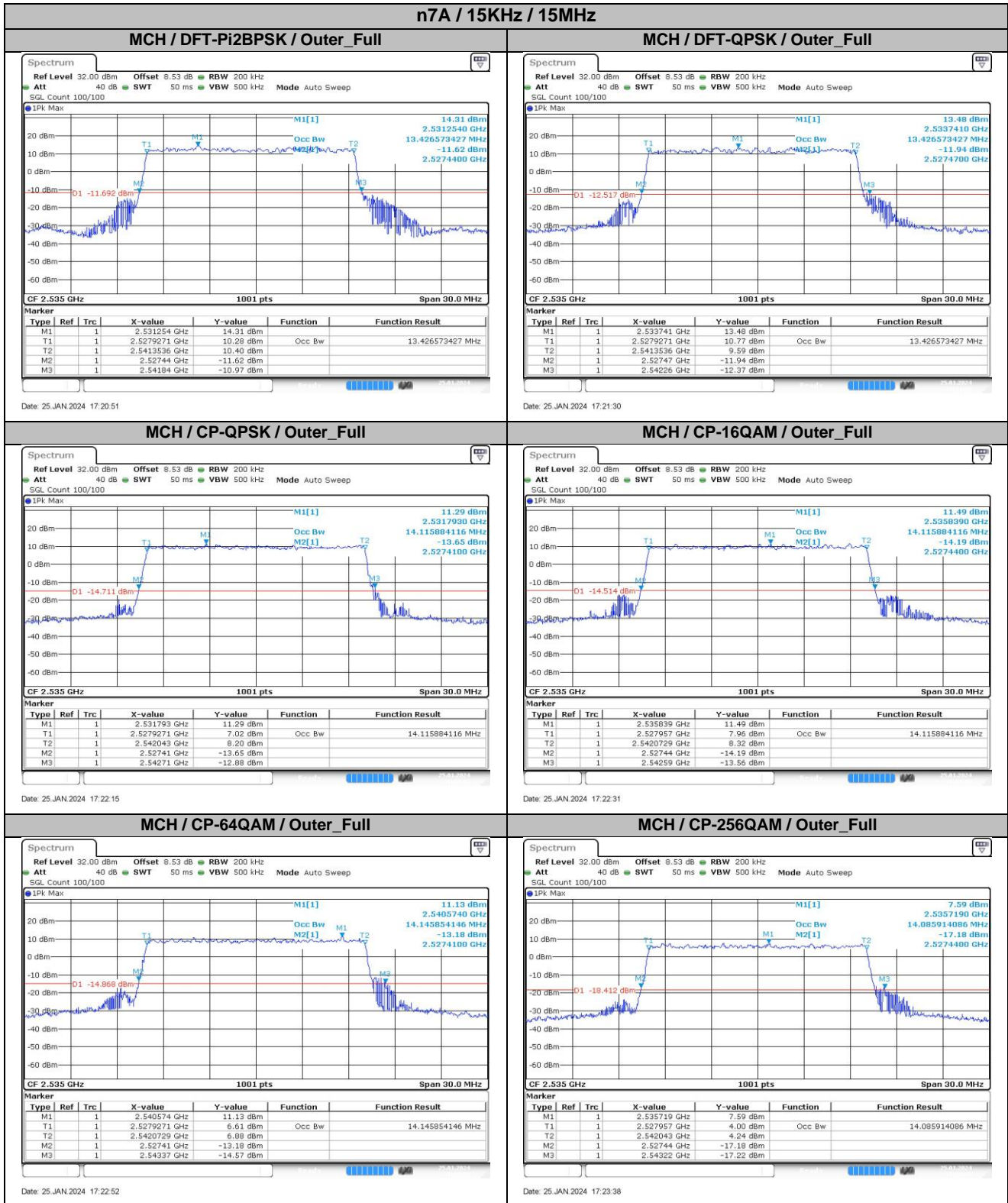
SCS	Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
15KHz	5MHz	DFT-Pi2BPSK	Outer_Full	4.47	4.99	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.48	4.94	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.49	5.32	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.51	5.14	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.49	5.15	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.49	5.14	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.93	9.80	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.93	9.72	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.29	10.90	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.29	10.34	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.29	9.96	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.33	10.16	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.43	14.40	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.43	14.79	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.12	15.30	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.12	15.15	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.15	15.96	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.09	15.78	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.90	19.00	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.86	18.88	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.94	20.00	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	19.02	20.96	Pass
15KHz	20MHz	CP-64QAM	Outer_Full	18.94	20.24	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	18.98	21.00	Pass
15KHz	25MHz	DFT-Pi2BPSK	Outer_Full	22.88	24.05	Pass
15KHz	25MHz	DFT-QPSK	Outer_Full	22.88	24.25	Pass
15KHz	25MHz	CP-QPSK	Outer_Full	23.68	25.15	Pass
15KHz	25MHz	CP-16QAM	Outer_Full	23.68	25.05	Pass
15KHz	25MHz	CP-64QAM	Outer_Full	23.73	25.95	Pass
15KHz	25MHz	CP-256QAM	Outer_Full	23.73	25.50	Pass
15KHz	30MHz	DFT-Pi2BPSK	Outer_Full	28.59	30.00	Pass
15KHz	30MHz	DFT-QPSK	Outer_Full	28.53	30.42	Pass
15KHz	30MHz	CP-QPSK	Outer_Full	28.53	31.02	Pass
15KHz	30MHz	CP-16QAM	Outer_Full	28.53	29.88	Pass
15KHz	30MHz	CP-64QAM	Outer_Full	28.53	30.36	Pass
15KHz	30MHz	CP-256QAM	Outer_Full	28.59	29.94	Pass
15KHz	40MHz	DFT-Pi2BPSK	Outer_Full	38.52	41.12	Pass
15KHz	40MHz	DFT-QPSK	Outer_Full	38.68	40.48	Pass
15KHz	40MHz	CP-QPSK	Outer_Full	38.52	40.56	Pass
15KHz	40MHz	CP-16QAM	Outer_Full	38.52	40.40	Pass
15KHz	40MHz	CP-64QAM	Outer_Full	38.60	40.40	Pass
15KHz	40MHz	CP-256QAM	Outer_Full	38.60	41.20	Pass

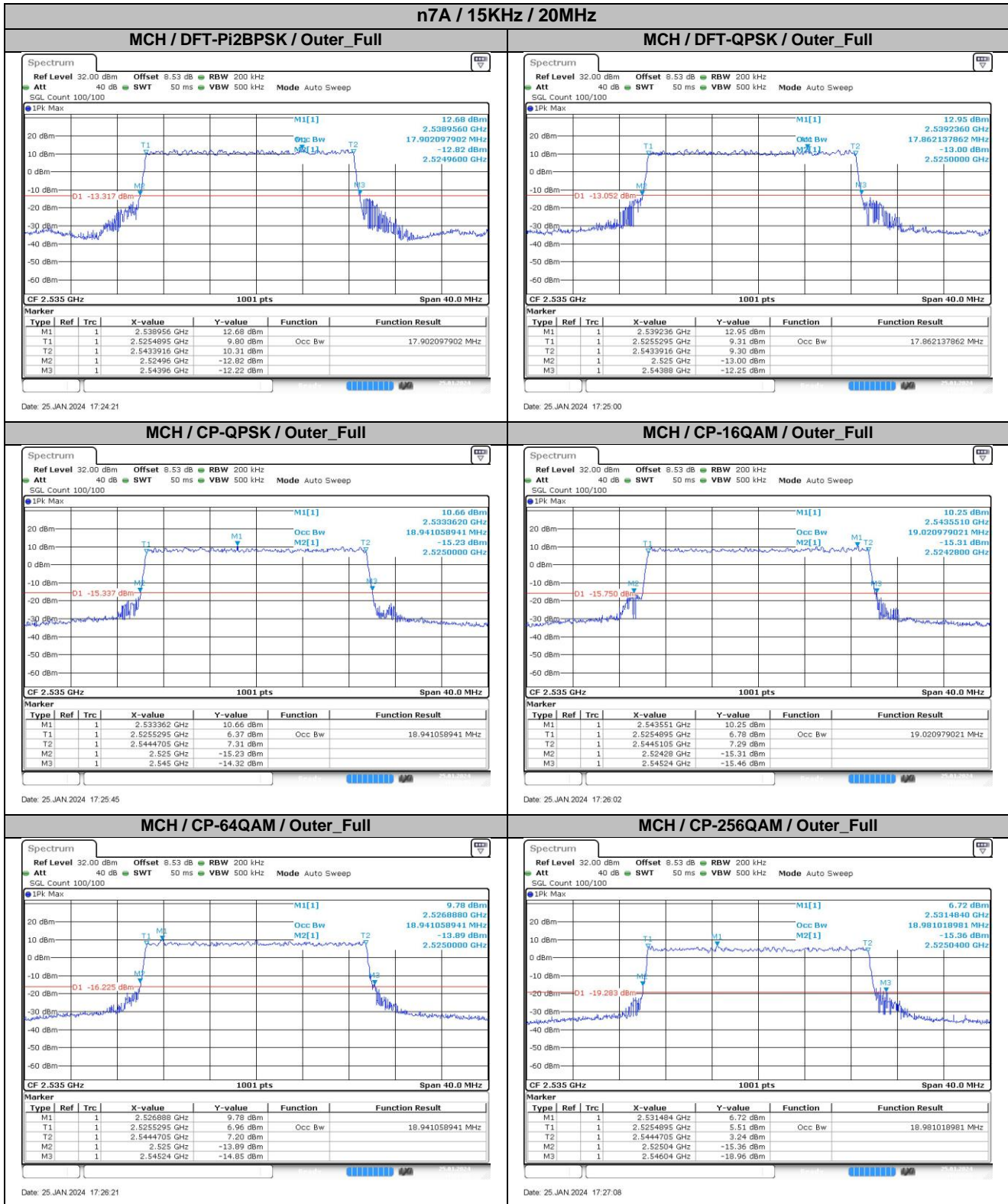


4.2. Test Plots

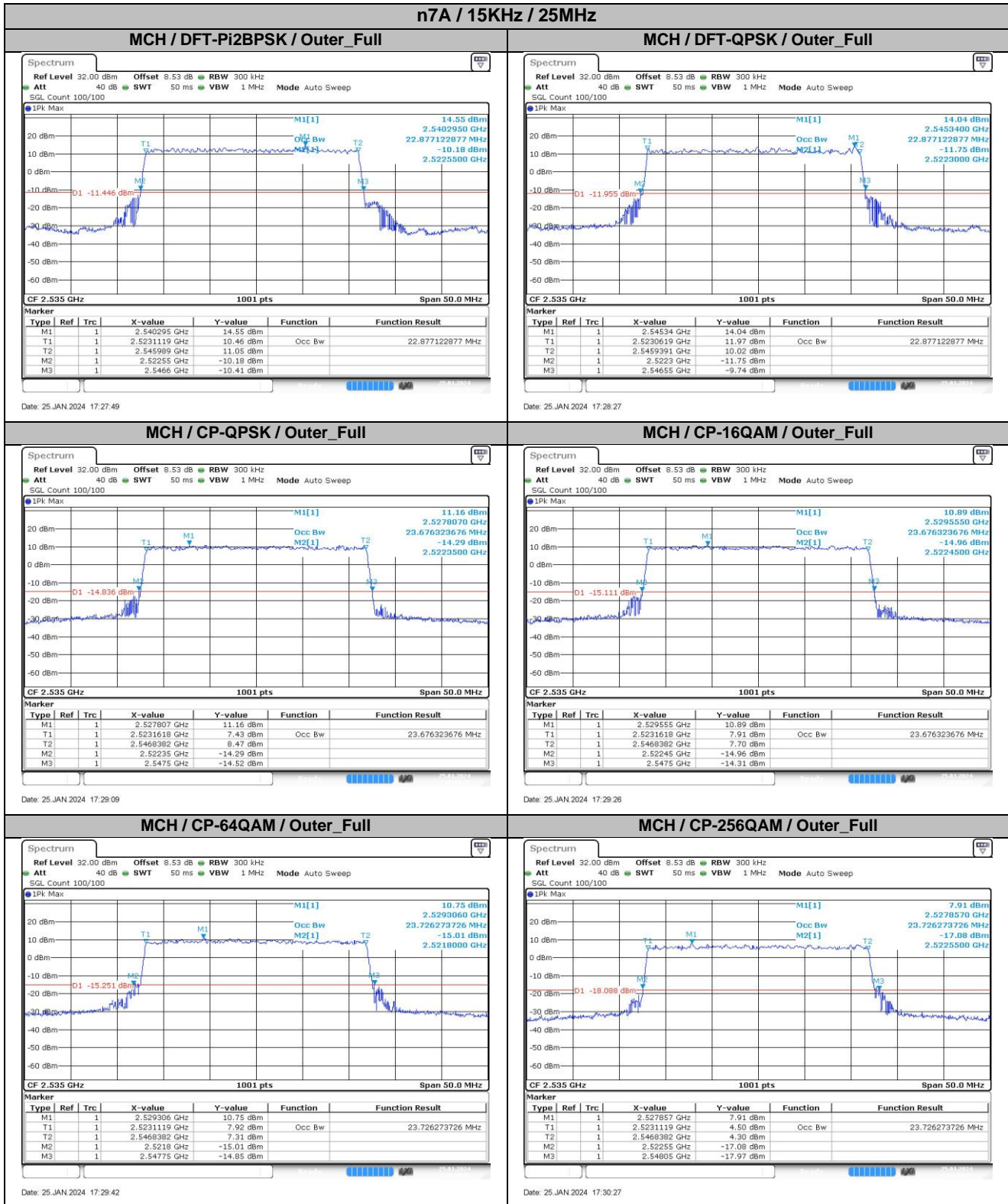


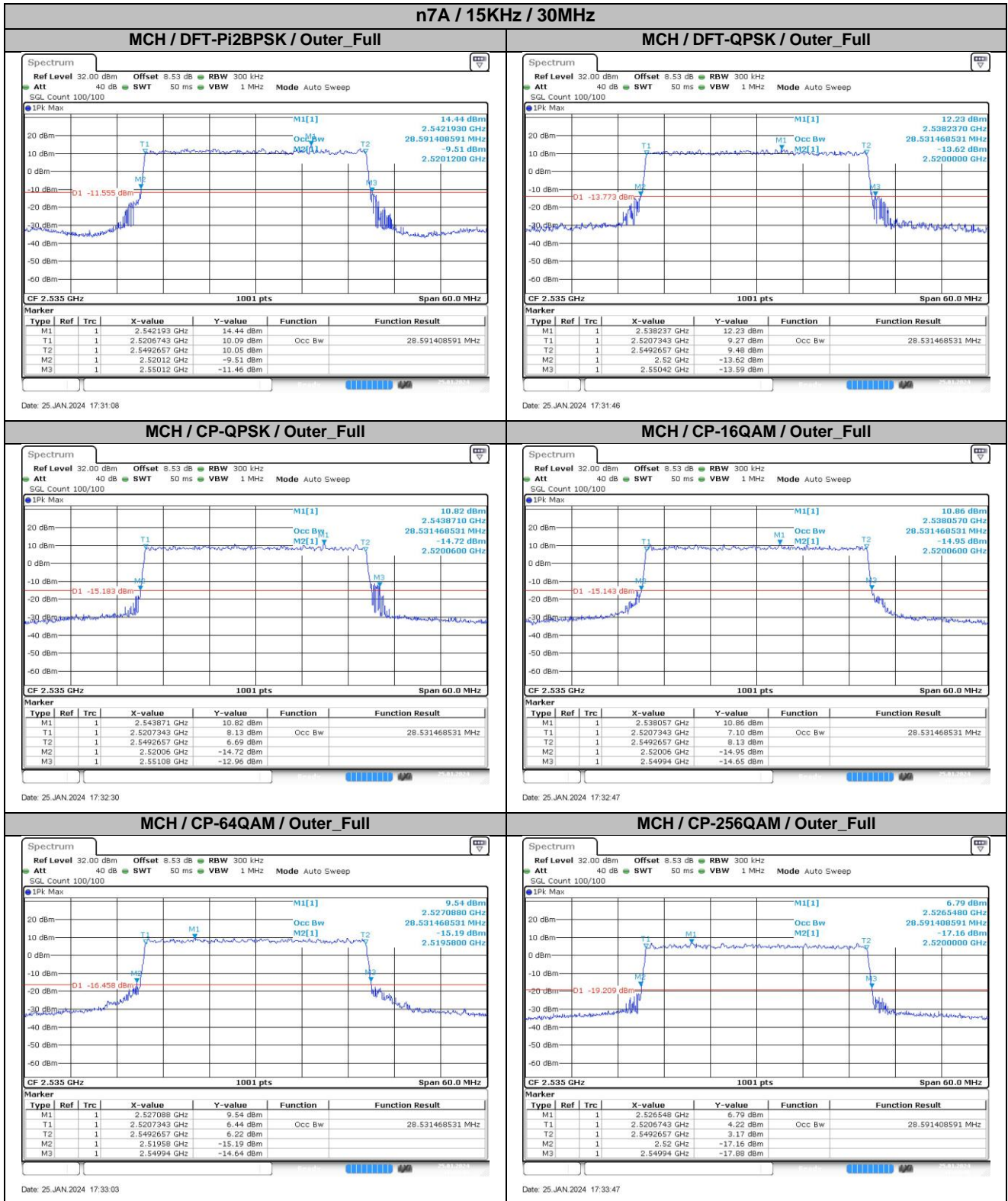


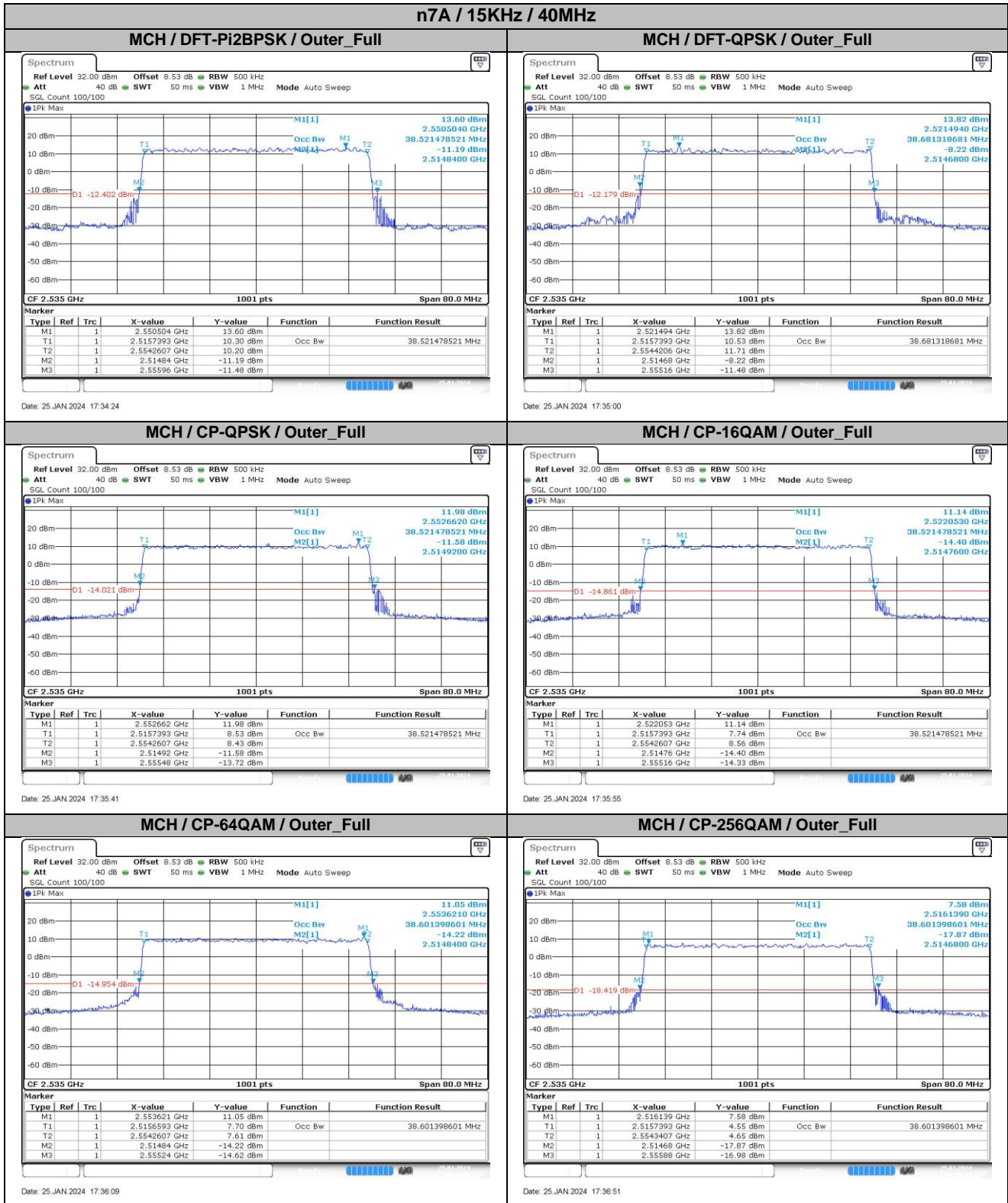






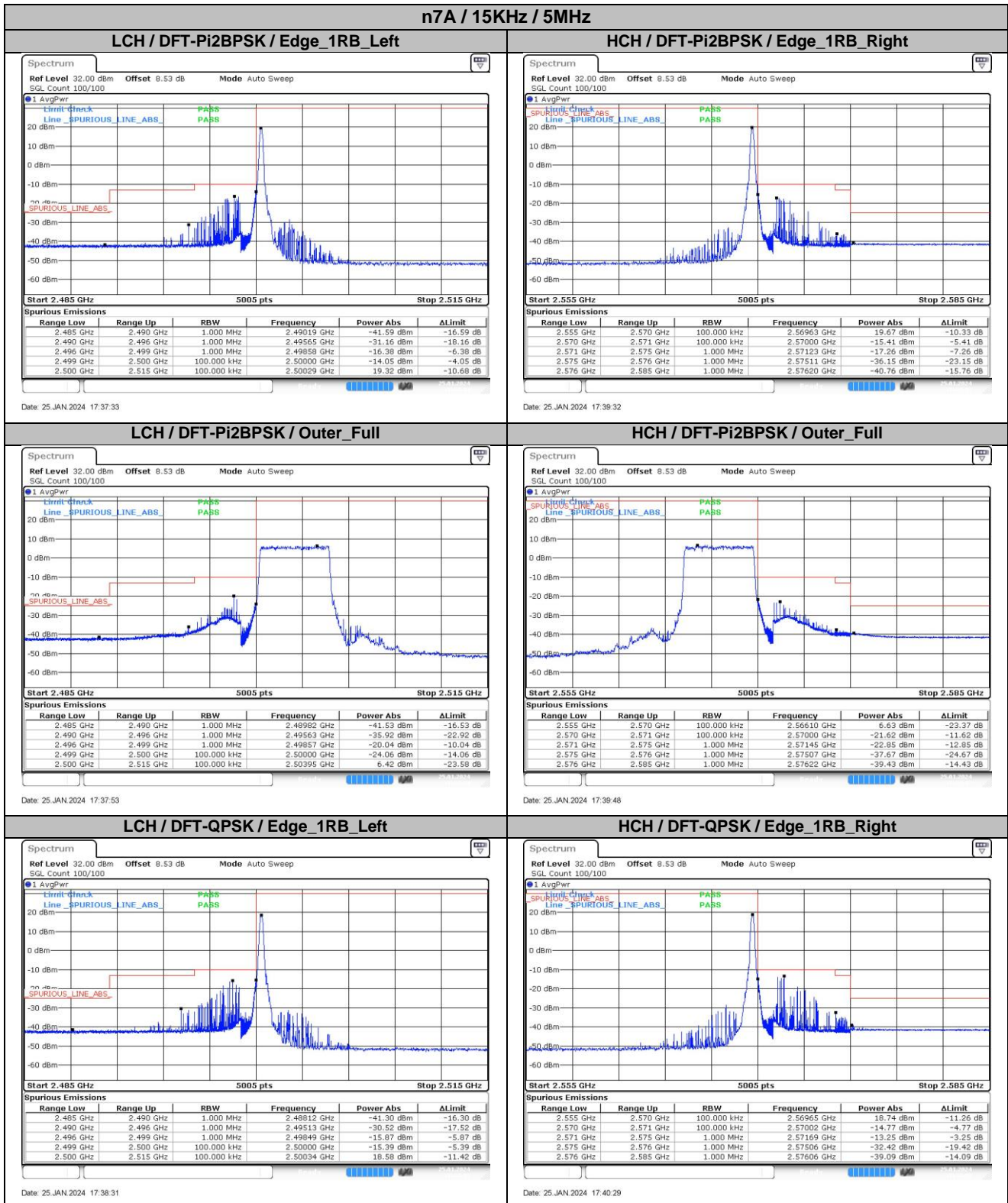




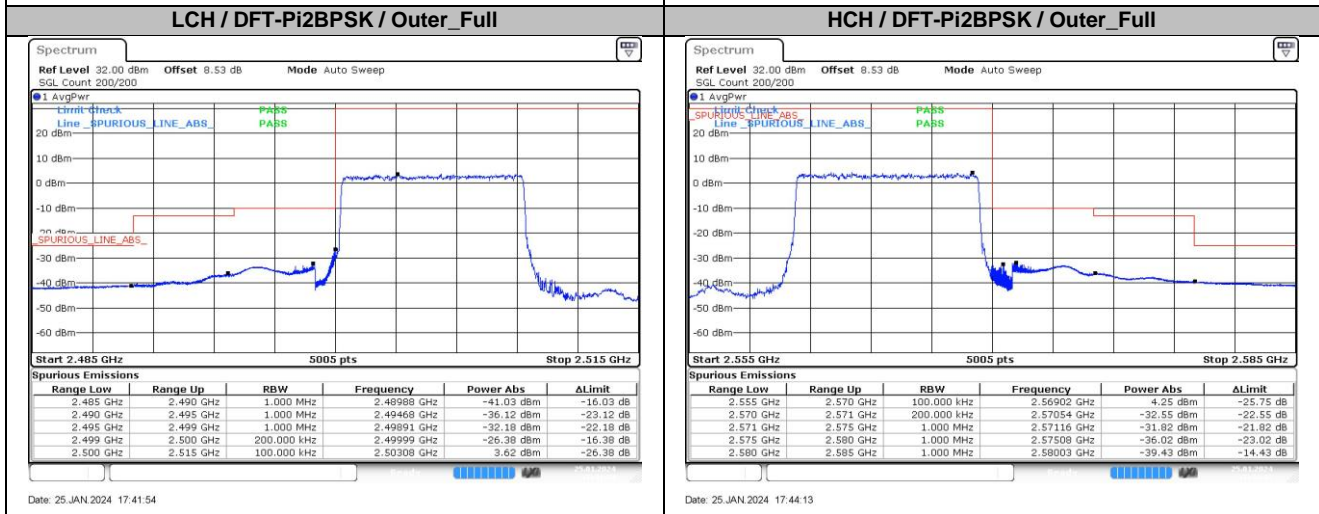
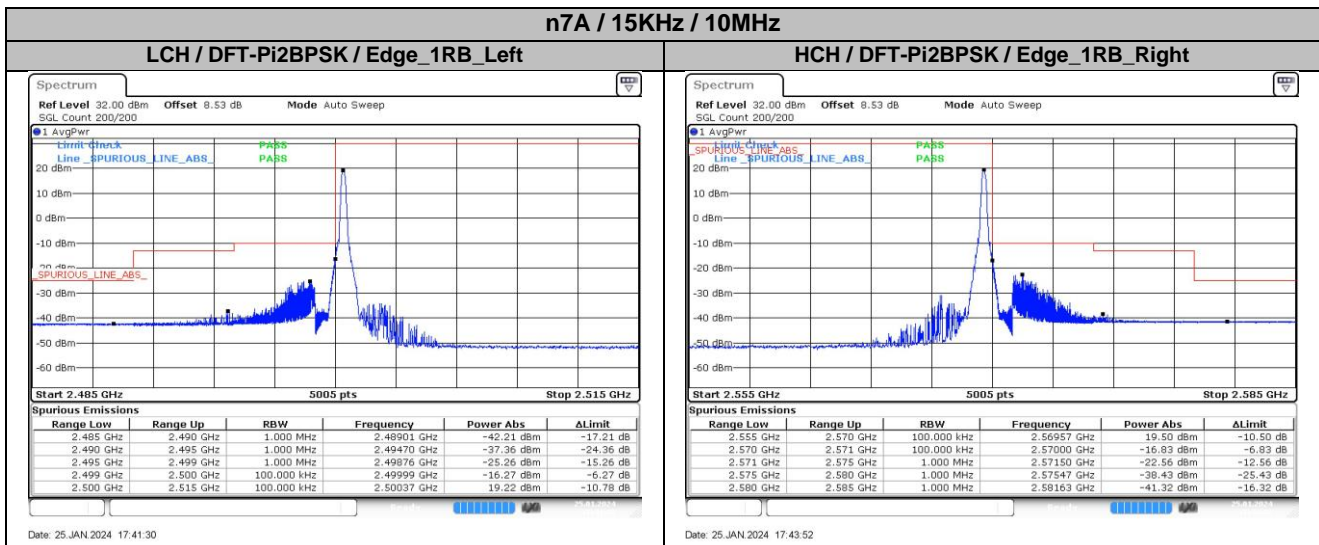
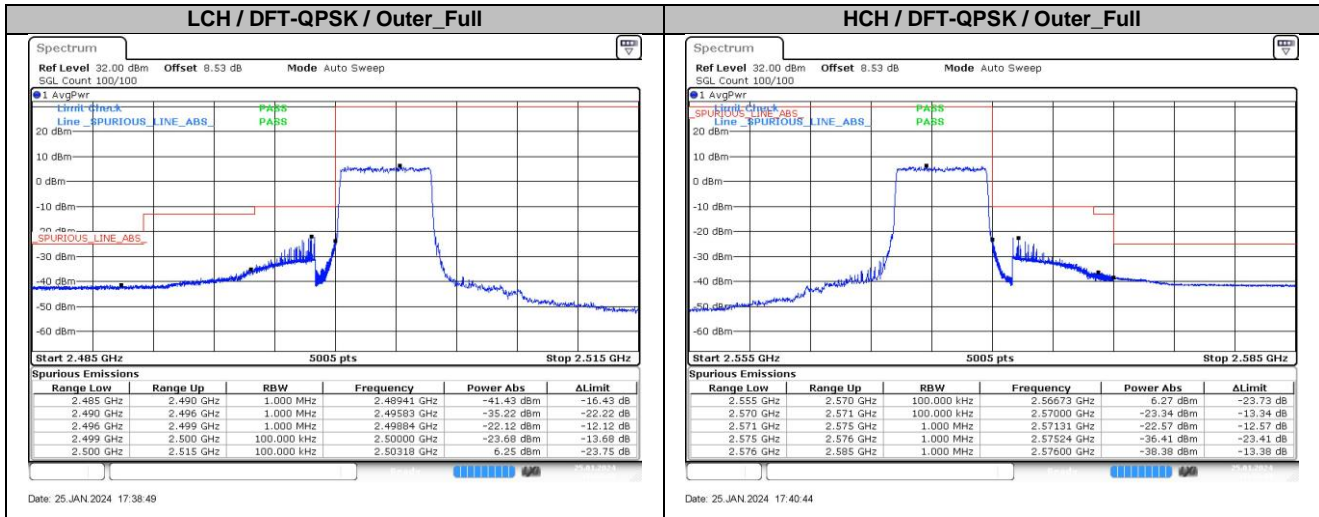


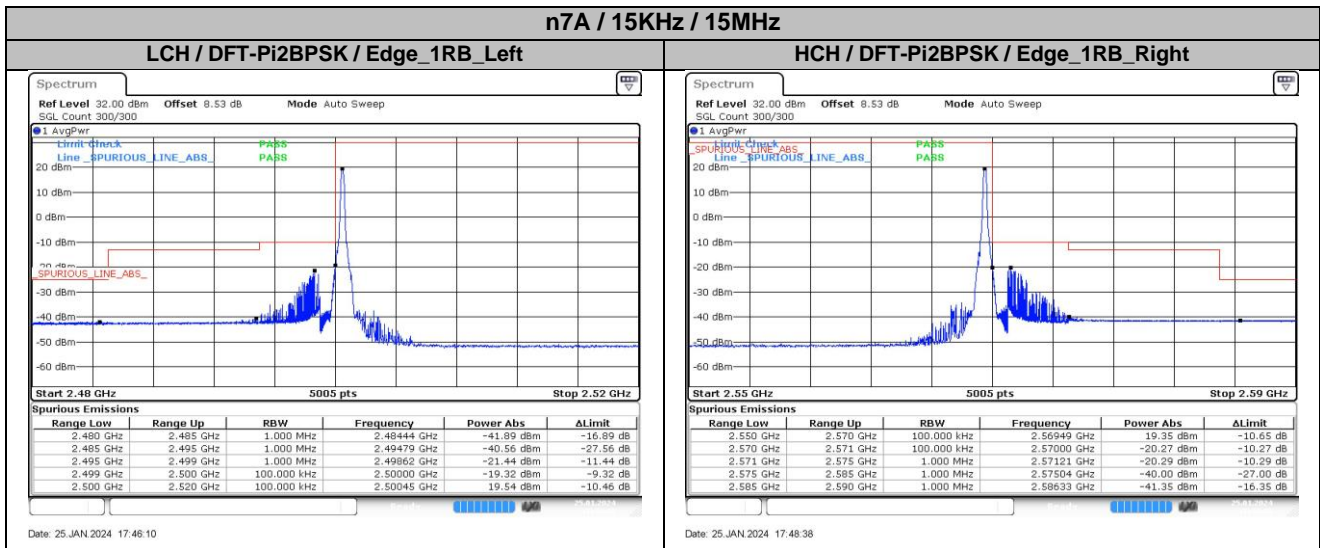
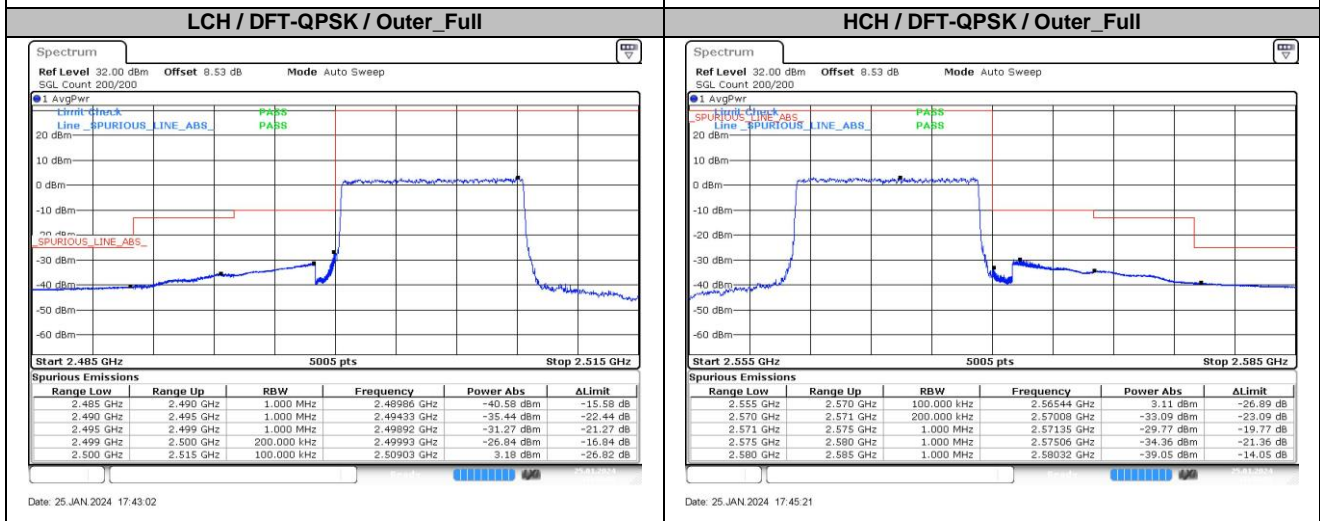
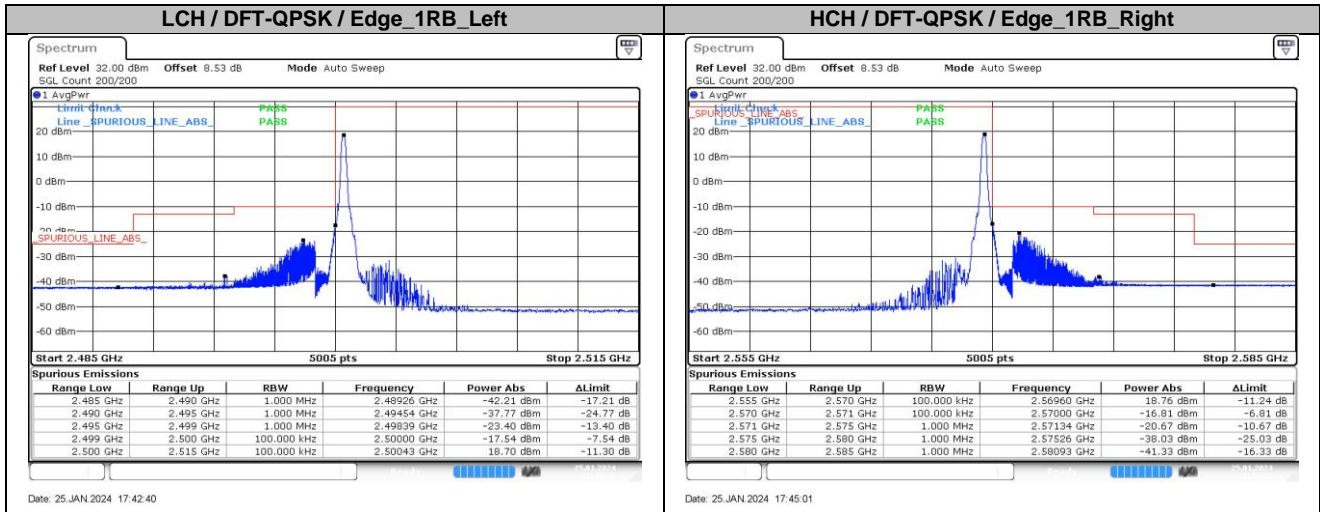
### 5. Conducted Band Edges

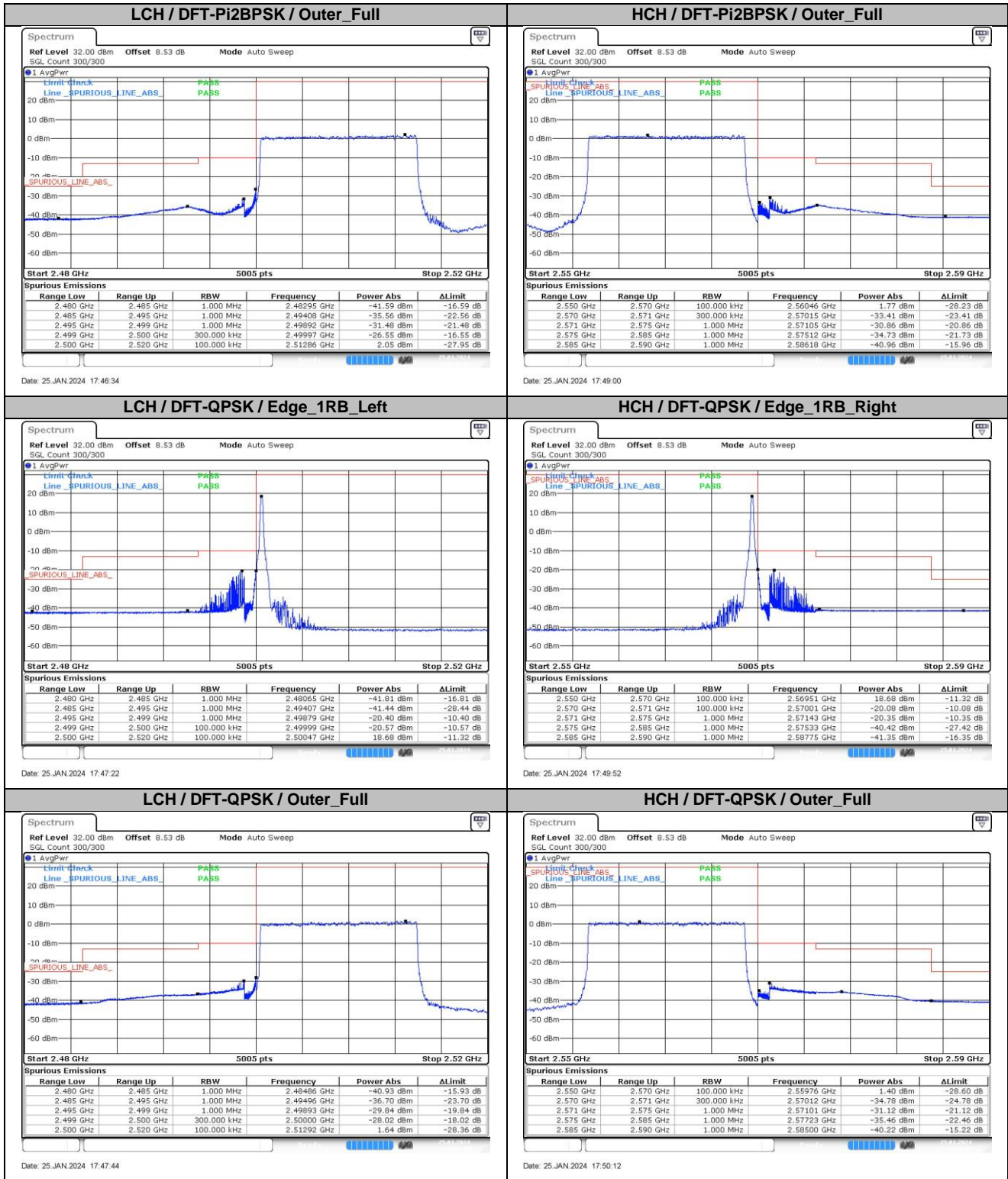
#### 5.1. Test Plots





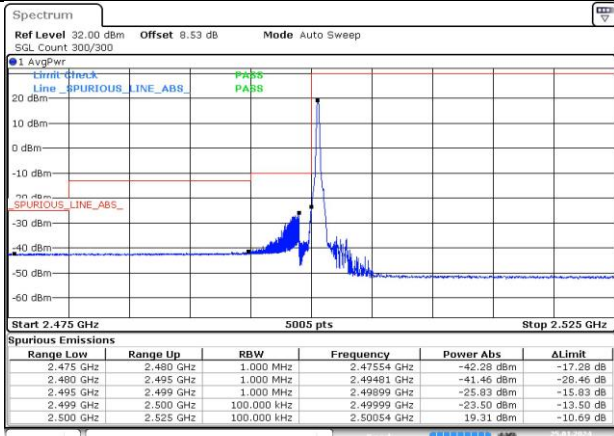






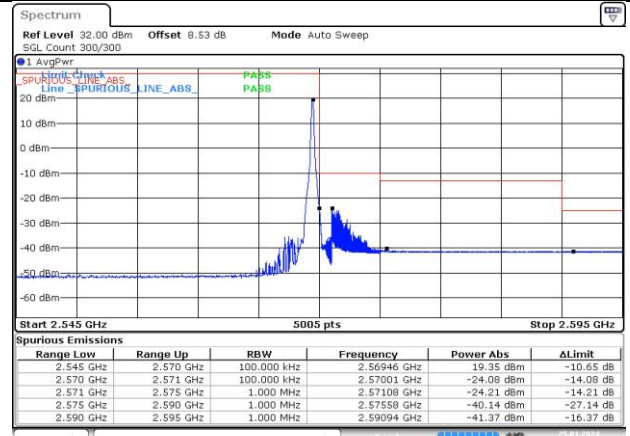
n7A / 15KHz / 20MHz

LCH / DFT-Pi2BPSK / Edge\_1RB\_Left



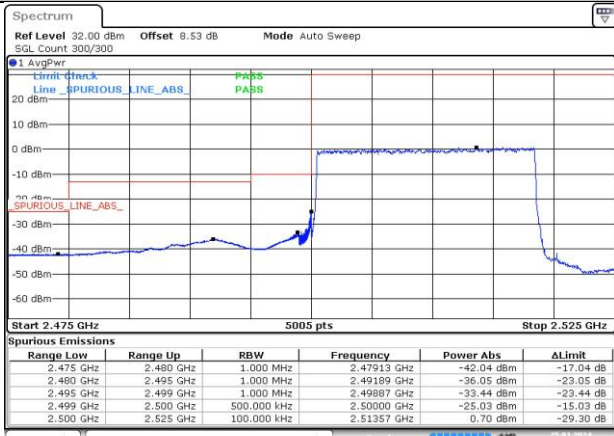
Date: 25.JAN.2024 17:51:06

HCH / DFT-Pi2BPSK / Edge\_1RB\_Right



Date: 25.JAN.2024 17:54:23

LCH / DFT-Pi2BPSK / Outer\_Full



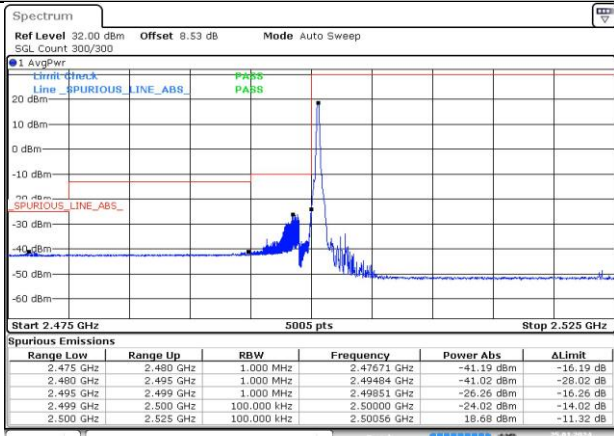
Date: 25.JAN.2024 17:51:34

HCH / DFT-Pi2BPSK / Outer\_Full



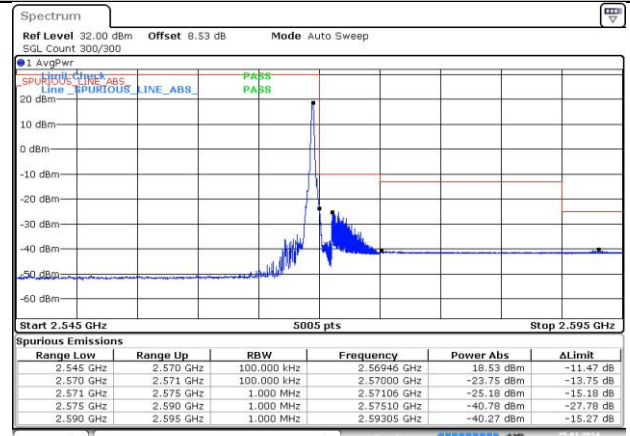
Date: 25.JAN.2024 17:54:48

LCH / DFT-QPSK / Edge\_1RB\_Left



Date: 25.JAN.2024 17:53:00

HCH / DFT-QPSK / Edge\_1RB\_Right



Date: 25.JAN.2024 17:55:43