

**Appendix
for
n38A
(2570-2620)**

Catalogue

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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			
30KHz	10MHz	LCH	DFT-Pi2BPSK	23.32	23.45	23.33	20.45	33.00	Pass
30KHz	10MHz	LCH	DFT-QPSK	23.16	23.25	23.17	20.25	33.00	Pass
30KHz	10MHz	LCH	DFT-16QAM	22.11	22.21	22.07	19.21	33.00	Pass
30KHz	10MHz	LCH	DFT-64QAM	20.58	20.70	20.58	17.70	33.00	Pass
30KHz	10MHz	LCH	DFT-256QAM	18.40	18.57	18.42	15.57	33.00	Pass
30KHz	10MHz	LCH	CP-QPSK	21.57	21.68	21.54	18.68	33.00	Pass
30KHz	10MHz	MCH	DFT-Pi2BPSK	23.53	23.69	23.53	20.69	33.00	Pass
30KHz	10MHz	MCH	DFT-QPSK	23.30	23.47	23.33	20.47	33.00	Pass
30KHz	10MHz	MCH	DFT-16QAM	22.24	22.43	22.25	19.43	33.00	Pass
30KHz	10MHz	MCH	DFT-64QAM	20.70	20.91	20.76	17.91	33.00	Pass
30KHz	10MHz	MCH	DFT-256QAM	18.61	18.81	18.60	15.81	33.00	Pass
30KHz	10MHz	MCH	CP-QPSK	21.67	21.85	21.69	18.85	33.00	Pass
30KHz	10MHz	HCH	DFT-Pi2BPSK	23.54	23.58	23.45	20.58	33.00	Pass
30KHz	10MHz	HCH	DFT-QPSK	23.24	23.33	23.26	20.33	33.00	Pass
30KHz	10MHz	HCH	DFT-16QAM	22.26	22.36	22.16	19.36	33.00	Pass
30KHz	10MHz	HCH	DFT-64QAM	20.66	20.75	20.65	17.75	33.00	Pass
30KHz	10MHz	HCH	DFT-256QAM	18.60	18.69	18.52	15.69	33.00	Pass
30KHz	10MHz	HCH	CP-QPSK	21.69	21.79	21.63	18.79	33.00	Pass
30KHz	15MHz	LCH	DFT-Pi2BPSK	23.22	23.11	23.16	20.22	33.00	Pass
30KHz	15MHz	LCH	DFT-QPSK	23.22	23.10	23.19	20.22	33.00	Pass
30KHz	15MHz	LCH	DFT-16QAM	22.26	22.15	22.16	19.26	33.00	Pass
30KHz	15MHz	LCH	DFT-64QAM	20.82	20.65	20.71	17.82	33.00	Pass
30KHz	15MHz	LCH	DFT-256QAM	18.76	18.61	18.71	15.76	33.00	Pass
30KHz	15MHz	LCH	CP-QPSK	21.76	21.59	21.70	18.76	33.00	Pass
30KHz	15MHz	MCH	DFT-Pi2BPSK	23.19	23.31	23.21	20.31	33.00	Pass
30KHz	15MHz	MCH	DFT-QPSK	23.10	23.29	23.28	20.29	33.00	Pass
30KHz	15MHz	MCH	DFT-16QAM	22.17	22.38	22.23	19.38	33.00	Pass
30KHz	15MHz	MCH	DFT-64QAM	20.73	20.86	20.73	17.86	33.00	Pass
30KHz	15MHz	MCH	DFT-256QAM	18.79	18.87	18.87	15.87	33.00	Pass
30KHz	15MHz	MCH	CP-QPSK	21.62	21.85	21.85	18.85	33.00	Pass
30KHz	15MHz	HCH	DFT-Pi2BPSK	23.24	23.23	23.25	20.25	33.00	Pass
30KHz	15MHz	HCH	DFT-QPSK	23.16	23.16	23.21	20.21	33.00	Pass
30KHz	15MHz	HCH	DFT-16QAM	22.36	22.26	22.27	19.36	33.00	Pass
30KHz	15MHz	HCH	DFT-64QAM	20.76	20.76	20.74	17.76	33.00	Pass
30KHz	15MHz	HCH	DFT-256QAM	18.82	18.77	18.83	15.83	33.00	Pass
30KHz	15MHz	HCH	CP-QPSK	21.78	21.77	21.76	18.78	33.00	Pass
30KHz	20MHz	LCH	DFT-Pi2BPSK	23.10	23.05	23.15	20.15	33.00	Pass
30KHz	20MHz	LCH	DFT-QPSK	23.09	23.15	23.16	20.16	33.00	Pass
30KHz	20MHz	LCH	DFT-16QAM	22.16	22.11	22.17	19.17	33.00	Pass
30KHz	20MHz	LCH	DFT-64QAM	20.68	20.66	20.62	17.68	33.00	Pass
30KHz	20MHz	LCH	DFT-256QAM	18.63	18.69	18.69	15.69	33.00	Pass
30KHz	20MHz	LCH	CP-QPSK	21.72	21.60	21.66	18.72	33.00	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	23.04	23.22	23.33	20.33	33.00	Pass
30KHz	20MHz	MCH	DFT-QPSK	23.00	23.23	23.29	20.29	33.00	Pass
30KHz	20MHz	MCH	DFT-16QAM	22.06	22.22	22.34	19.34	33.00	Pass
30KHz	20MHz	MCH	DFT-64QAM	20.61	20.86	20.81	17.86	33.00	Pass
30KHz	20MHz	MCH	DFT-256QAM	18.71	18.81	18.77	15.81	33.00	Pass
30KHz	20MHz	MCH	CP-QPSK	21.55	21.73	21.71	18.73	33.00	Pass
30KHz	20MHz	HCH	DFT-Pi2BPSK	23.20	23.13	23.29	20.29	33.00	Pass
30KHz	20MHz	HCH	DFT-QPSK	23.15	23.11	23.22	20.22	33.00	Pass
30KHz	20MHz	HCH	DFT-16QAM	22.26	22.19	22.32	19.32	33.00	Pass
30KHz	20MHz	HCH	DFT-64QAM	20.92	20.90	20.78	17.92	33.00	Pass
30KHz	20MHz	HCH	DFT-256QAM	18.80	18.77	18.75	15.80	33.00	Pass
30KHz	20MHz	HCH	CP-QPSK	21.81	21.75	21.77	18.81	33.00	Pass
30KHz	30MHz	LCH	DFT-Pi2BPSK	23.21	23.29	23.13	20.29	33.00	Pass
30KHz	30MHz	LCH	DFT-QPSK	23.24	23.31	23.09	20.31	33.00	Pass
30KHz	30MHz	LCH	DFT-16QAM	22.28	22.35	22.11	19.35	33.00	Pass
30KHz	30MHz	LCH	DFT-64QAM	20.80	20.90	20.60	17.90	33.00	Pass

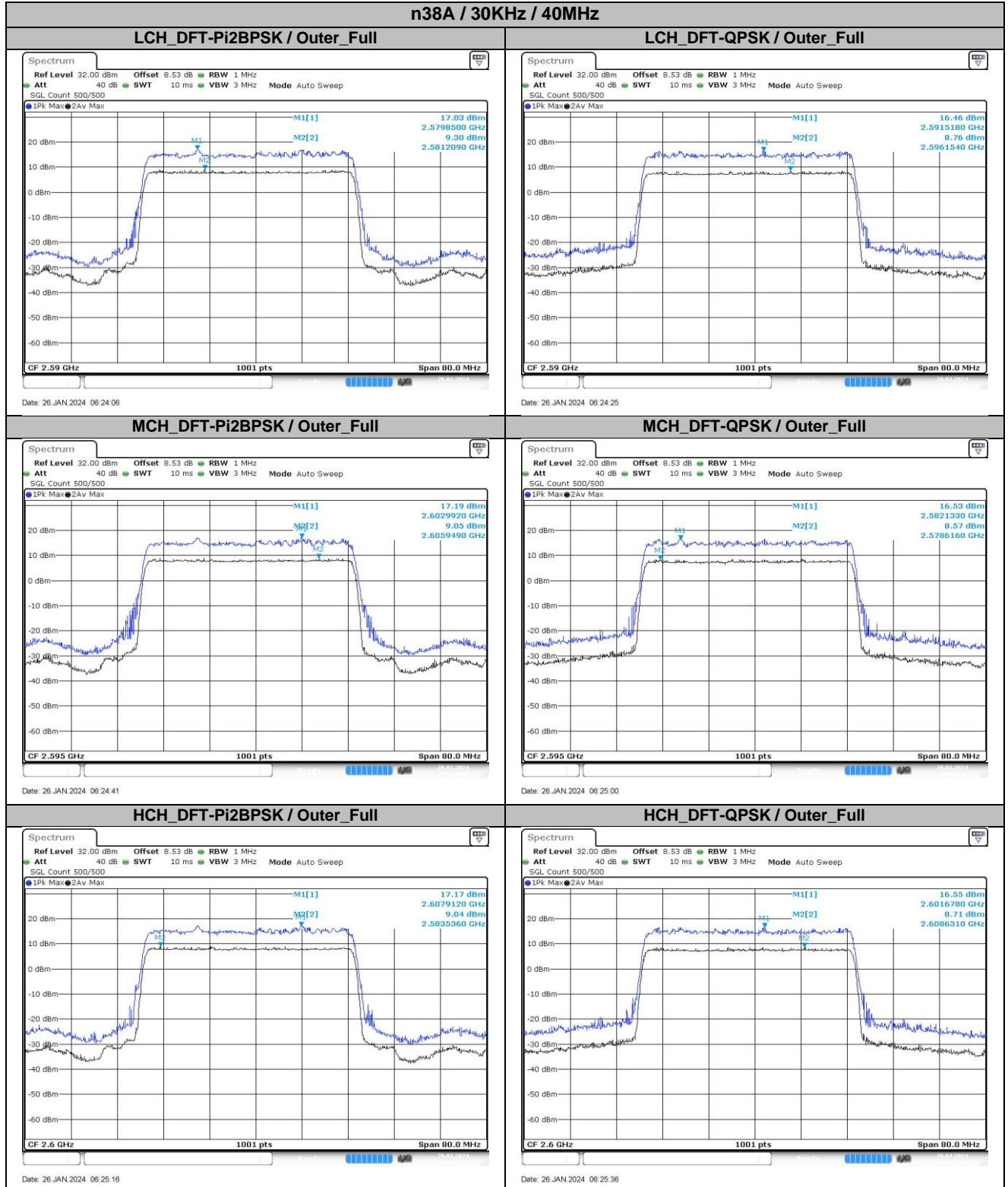
30KHz	30MHz	LCH	DFT-256QAM	18.75	18.88	18.63	15.88	33.00	Pass
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30KHz	30MHz	MCH	DFT-Pi2BPSK	23.12	23.25	23.19	20.25	33.00	Pass
30KHz	30MHz	MCH	DFT-QPSK	23.06	23.22	23.17	20.22	33.00	Pass
30KHz	30MHz	MCH	DFT-16QAM	22.26	22.41	22.13	19.41	33.00	Pass
30KHz	30MHz	MCH	DFT-64QAM	20.84	21.04	20.63	18.04	33.00	Pass
30KHz	30MHz	MCH	DFT-256QAM	18.68	18.85	18.75	15.85	33.00	Pass
30KHz	30MHz	MCH	CP-QPSK	21.66	21.77	21.68	18.77	33.00	Pass
30KHz	30MHz	HCH	DFT-Pi2BPSK	23.25	23.22	23.24	20.25	33.00	Pass
30KHz	30MHz	HCH	DFT-QPSK	23.12	23.21	23.25	20.25	33.00	Pass
30KHz	30MHz	HCH	DFT-16QAM	22.29	22.37	22.29	19.37	33.00	Pass
30KHz	30MHz	HCH	DFT-64QAM	20.89	20.98	20.79	17.98	33.00	Pass
30KHz	30MHz	HCH	DFT-256QAM	18.73	18.85	18.80	15.85	33.00	Pass
30KHz	30MHz	HCH	CP-QPSK	21.70	21.83	21.77	18.83	33.00	Pass
30KHz	40MHz	LCH	DFT-Pi2BPSK	23.26	23.30	23.13	20.30	33.00	Pass
30KHz	40MHz	LCH	DFT-QPSK	23.22	23.29	23.13	20.29	33.00	Pass
30KHz	40MHz	LCH	DFT-16QAM	22.25	22.34	22.17	19.34	33.00	Pass
30KHz	40MHz	LCH	DFT-64QAM	20.81	20.84	20.64	17.84	33.00	Pass
30KHz	40MHz	LCH	DFT-256QAM	18.77	18.82	18.80	15.82	33.00	Pass
30KHz	40MHz	LCH	CP-QPSK	21.82	21.85	21.64	18.85	33.00	Pass
30KHz	40MHz	MCH	DFT-Pi2BPSK	23.14	23.24	23.17	20.24	33.00	Pass
30KHz	40MHz	MCH	DFT-QPSK	23.14	23.21	23.25	20.25	33.00	Pass
30KHz	40MHz	MCH	DFT-16QAM	22.24	22.30	22.17	19.30	33.00	Pass
30KHz	40MHz	MCH	DFT-64QAM	20.82	20.95	20.65	17.95	33.00	Pass
30KHz	40MHz	MCH	DFT-256QAM	18.73	18.83	18.80	15.83	33.00	Pass
30KHz	40MHz	MCH	CP-QPSK	21.70	21.84	21.69	18.84	33.00	Pass
30KHz	40MHz	HCH	DFT-Pi2BPSK	23.05	23.26	23.17	20.26	33.00	Pass
30KHz	40MHz	HCH	DFT-QPSK	23.18	23.28	23.23	20.28	33.00	Pass
30KHz	40MHz	HCH	DFT-16QAM	22.15	22.29	22.20	19.29	33.00	Pass
30KHz	40MHz	HCH	DFT-64QAM	20.68	20.85	20.77	17.85	33.00	Pass
30KHz	40MHz	HCH	DFT-256QAM	18.67	18.83	18.84	15.84	33.00	Pass
30KHz	40MHz	HCH	CP-QPSK	21.60	21.79	21.77	18.79	33.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

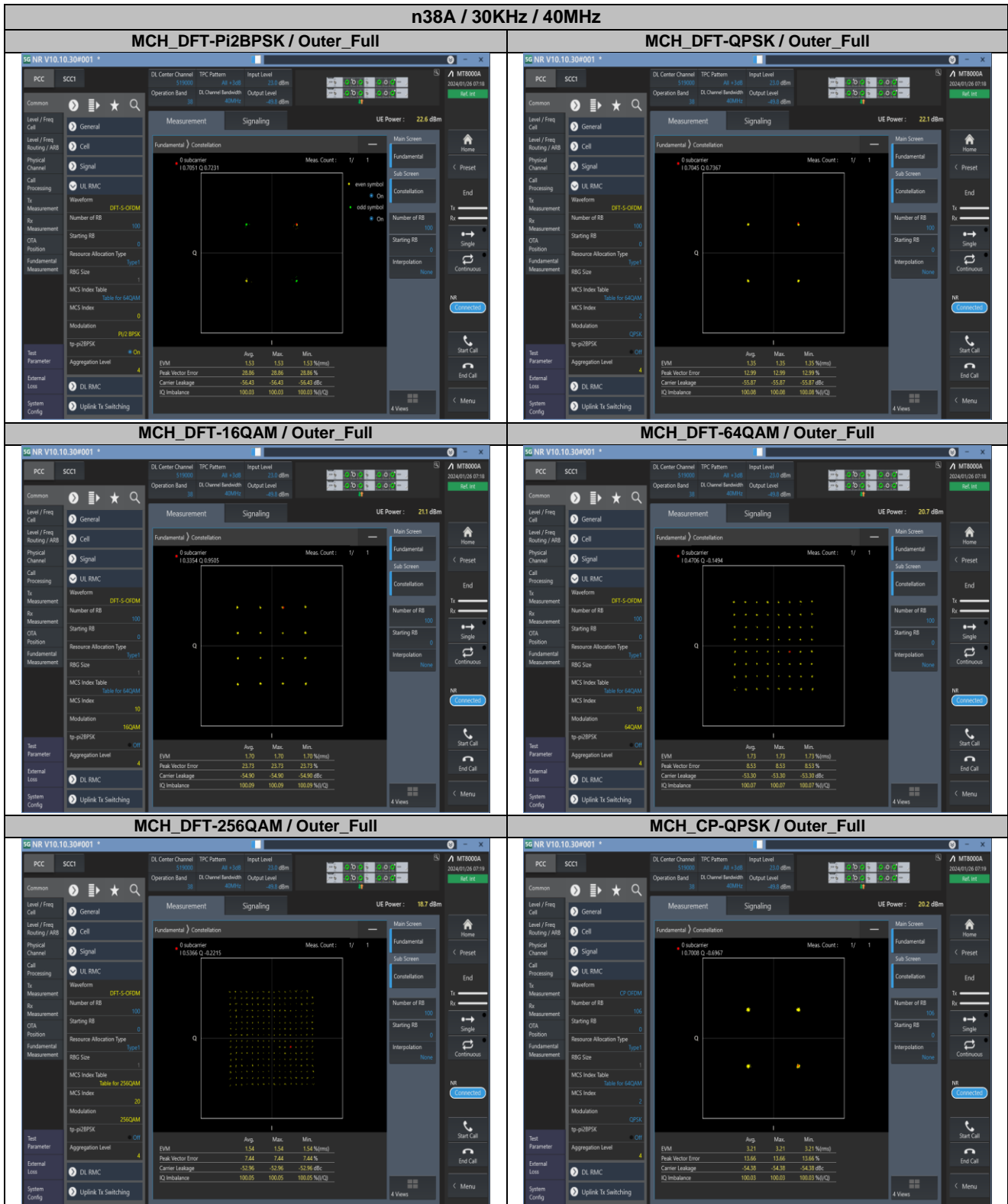
SCS	Bandwidth	Channel	Modulation	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
30KHz	40MHz	LCH	Outer_Full	7.74	7.70	13.00	Pass
30KHz	40MHz	MCH	Outer_Full	8.14	7.97	13.00	Pass
30KHz	40MHz	HCH	Outer_Full	8.13	7.84	13.00	Pass

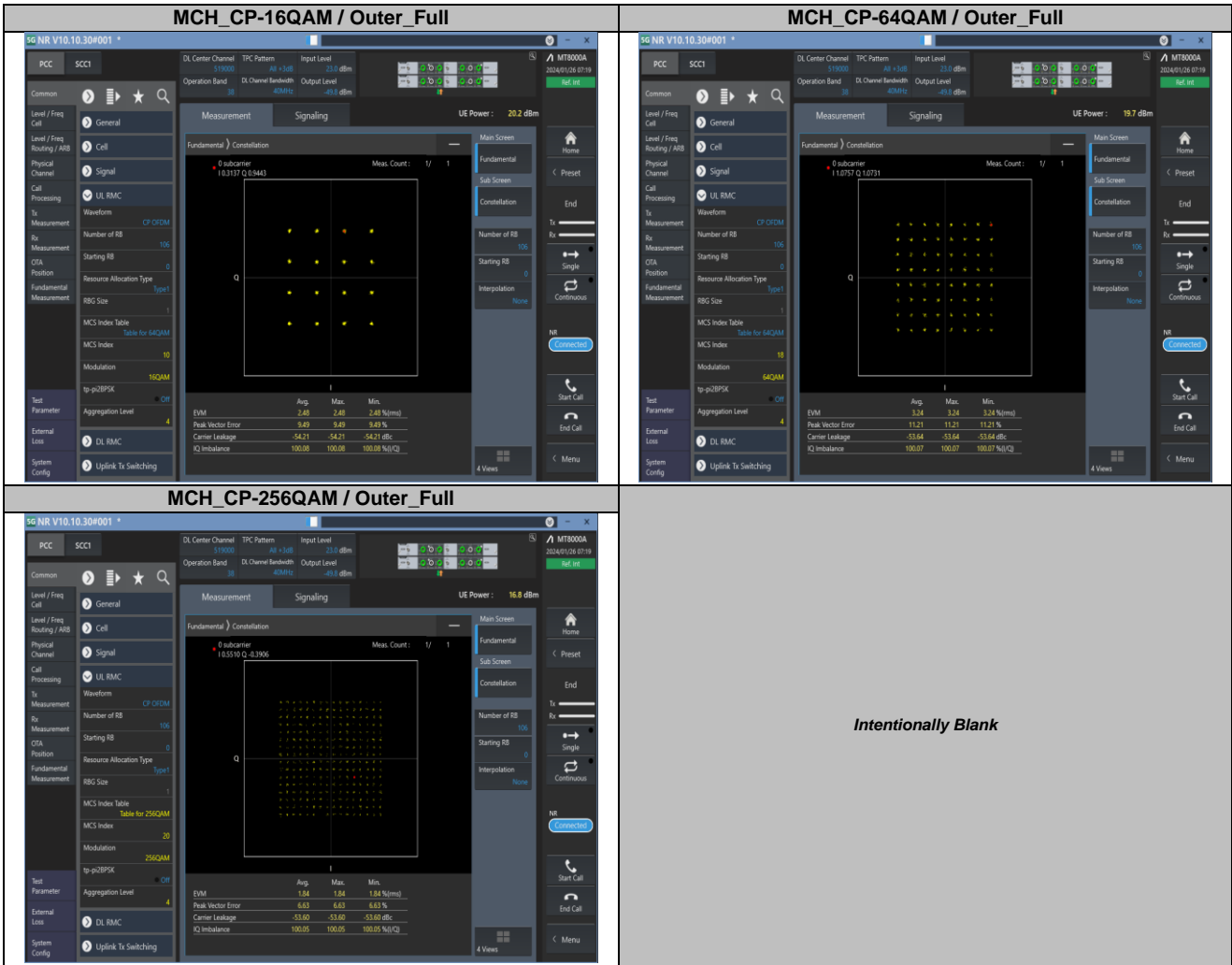
2.2. Test Plots



3. Modulation Characteristics

3.1. Test Plots



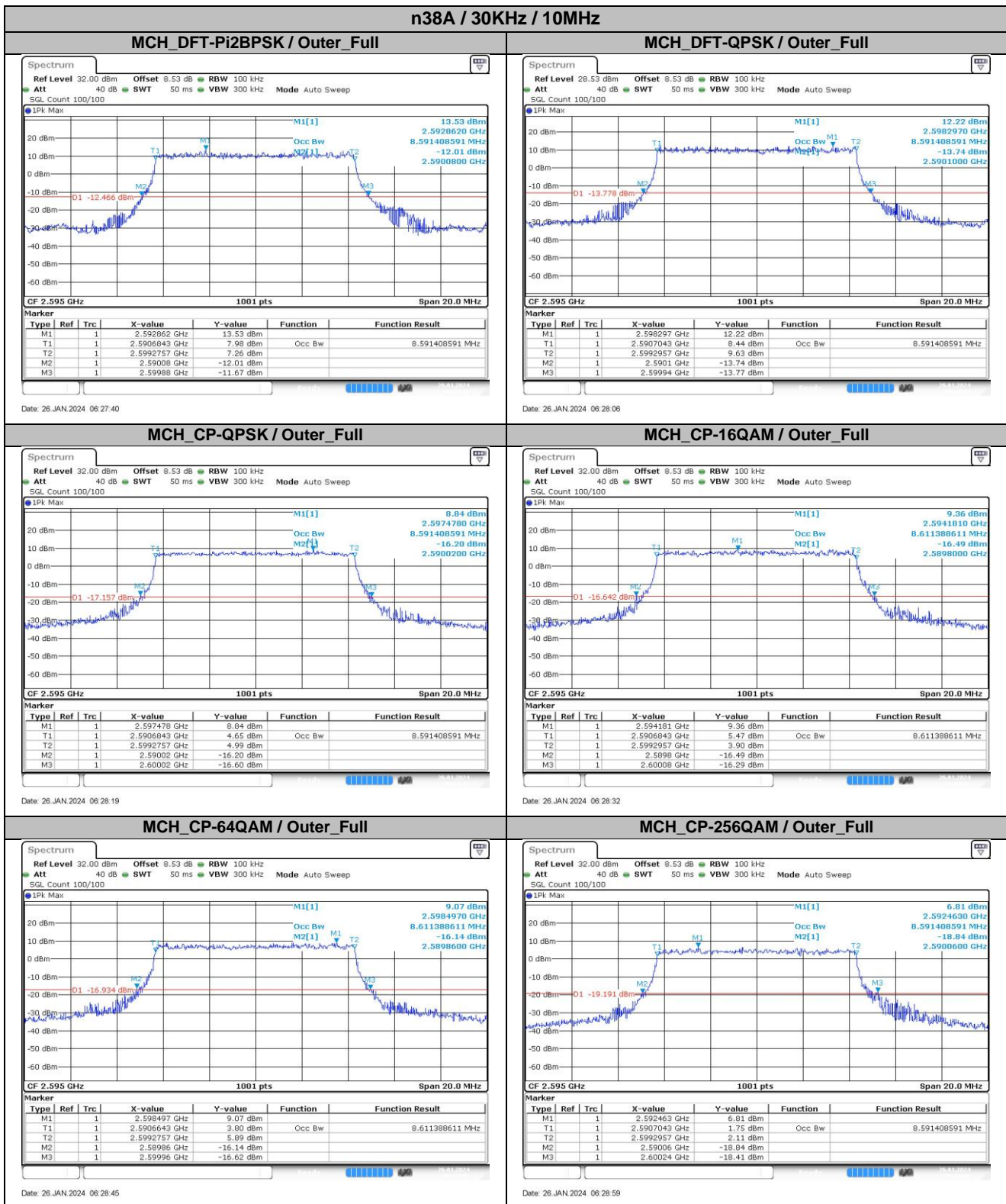


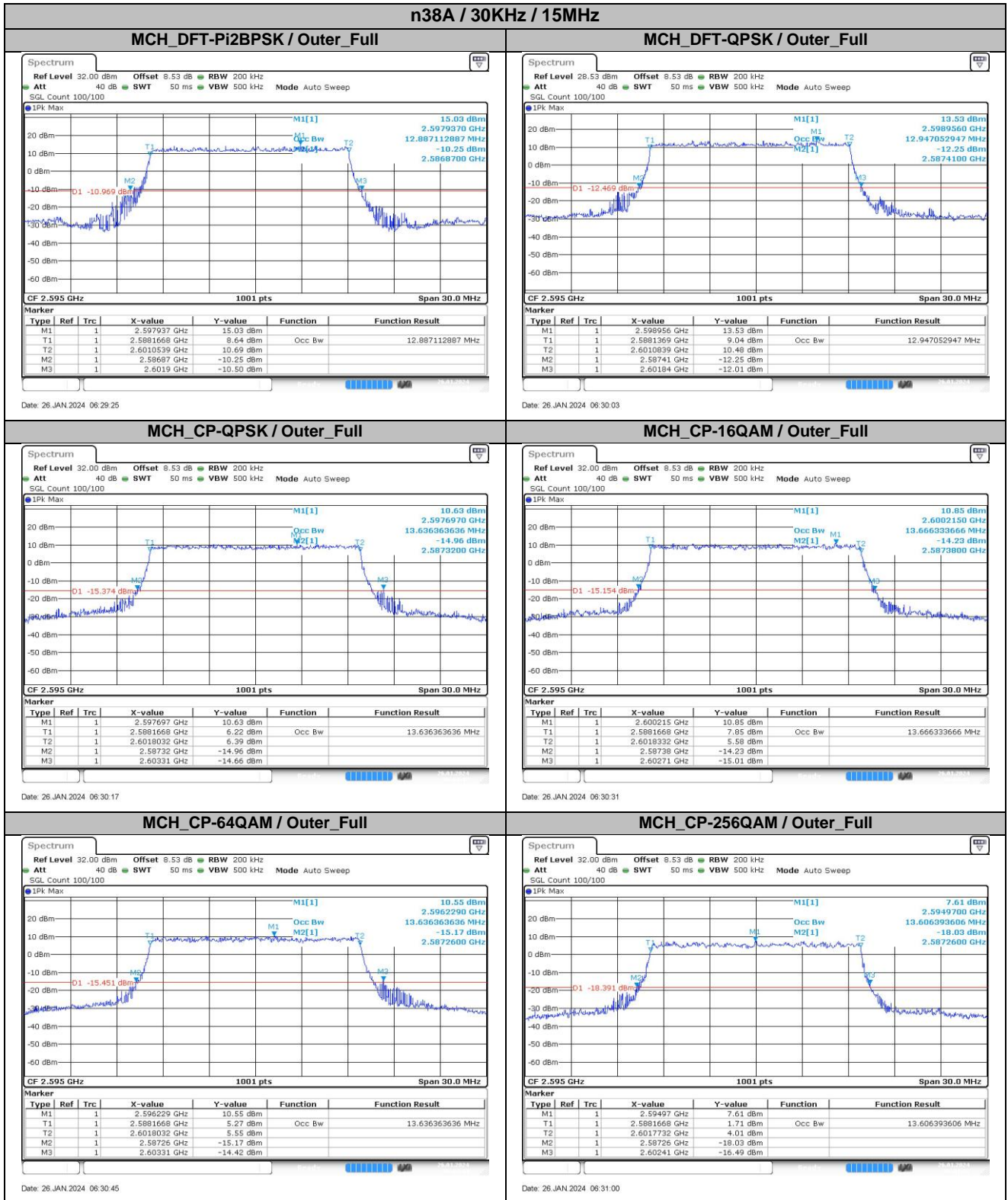
4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

SCS	Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
30KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.59	9.80	Pass
30KHz	10MHz	DFT-QPSK	Outer_Full	8.59	9.84	Pass
30KHz	10MHz	CP-QPSK	Outer_Full	8.59	10.00	Pass
30KHz	10MHz	CP-16QAM	Outer_Full	8.61	10.28	Pass
30KHz	10MHz	CP-64QAM	Outer_Full	8.61	10.10	Pass
30KHz	10MHz	CP-256QAM	Outer_Full	8.59	10.18	Pass
30KHz	15MHz	DFT-Pi2BPSK	Outer_Full	12.89	15.03	Pass
30KHz	15MHz	DFT-QPSK	Outer_Full	12.95	14.43	Pass
30KHz	15MHz	CP-QPSK	Outer_Full	13.64	15.99	Pass
30KHz	15MHz	CP-16QAM	Outer_Full	13.67	15.33	Pass
30KHz	15MHz	CP-64QAM	Outer_Full	13.64	16.05	Pass
30KHz	15MHz	CP-256QAM	Outer_Full	13.61	15.15	Pass
30KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.86	19.52	Pass
30KHz	20MHz	DFT-QPSK	Outer_Full	17.86	19.48	Pass
30KHz	20MHz	CP-QPSK	Outer_Full	18.22	21.16	Pass
30KHz	20MHz	CP-16QAM	Outer_Full	18.26	20.60	Pass
30KHz	20MHz	CP-64QAM	Outer_Full	18.22	20.04	Pass
30KHz	20MHz	CP-256QAM	Outer_Full	18.22	19.76	Pass
30KHz	30MHz	DFT-Pi2BPSK	Outer_Full	26.85	29.40	Pass
30KHz	30MHz	DFT-QPSK	Outer_Full	26.85	28.74	Pass
30KHz	30MHz	CP-QPSK	Outer_Full	27.81	29.76	Pass
30KHz	30MHz	CP-16QAM	Outer_Full	27.93	31.20	Pass
30KHz	30MHz	CP-64QAM	Outer_Full	27.87	29.64	Pass
30KHz	30MHz	CP-256QAM	Outer_Full	27.87	29.76	Pass
30KHz	40MHz	DFT-Pi2BPSK	Outer_Full	35.72	38.32	Pass
30KHz	40MHz	DFT-QPSK	Outer_Full	35.72	37.84	Pass
30KHz	40MHz	CP-QPSK	Outer_Full	37.96	40.24	Pass
30KHz	40MHz	CP-16QAM	Outer_Full	37.88	40.80	Pass
30KHz	40MHz	CP-64QAM	Outer_Full	37.88	40.16	Pass
30KHz	40MHz	CP-256QAM	Outer_Full	37.88	40.88	Pass

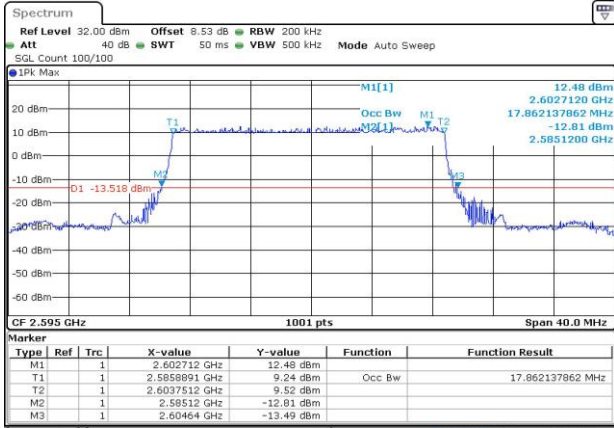
4.2. Test Plots





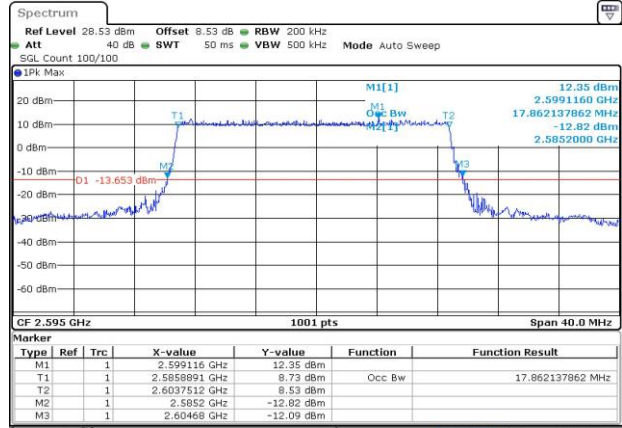
n38A / 30KHz / 20MHz

MCH_DFT-Pi2BPSK / Outer_Full



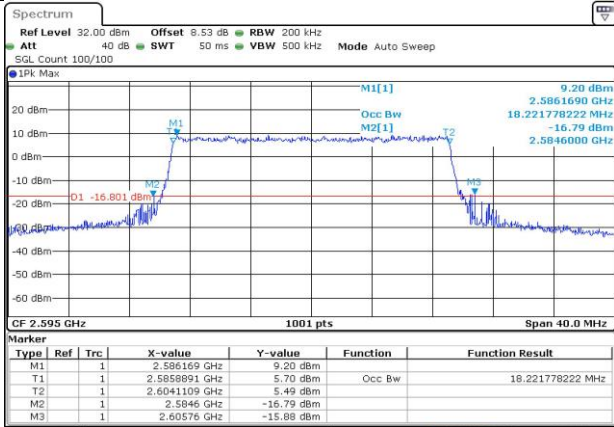
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MCH_DFT-QPSK / Outer_Full



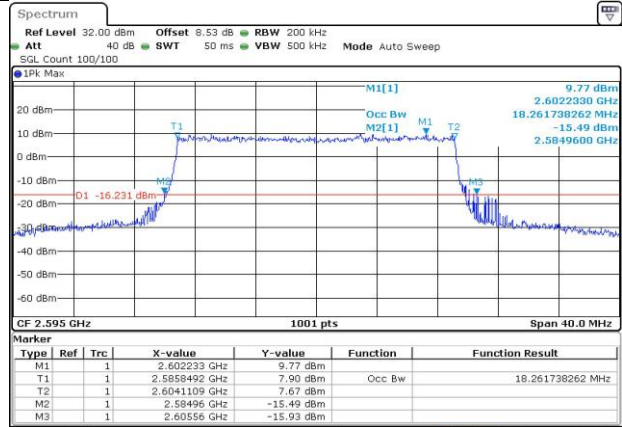
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MCH_CP-QPSK / Outer_Full



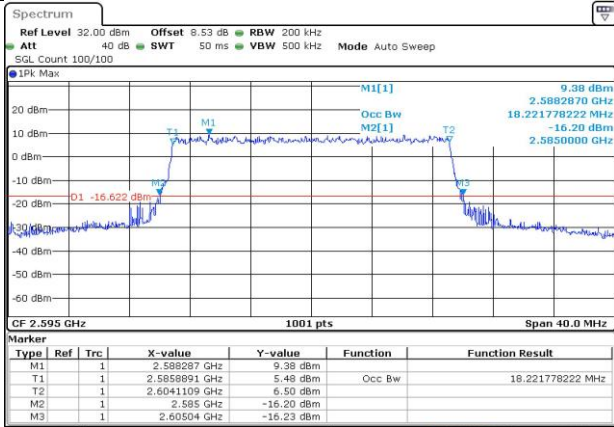
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MCH_CP-16QAM / Outer_Full



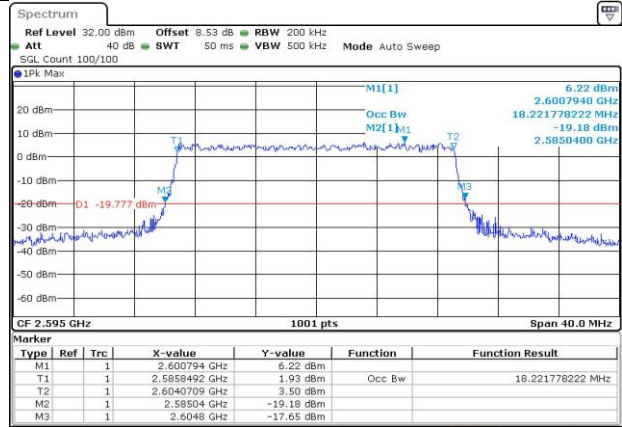
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MCH_CP-64QAM / Outer_Full



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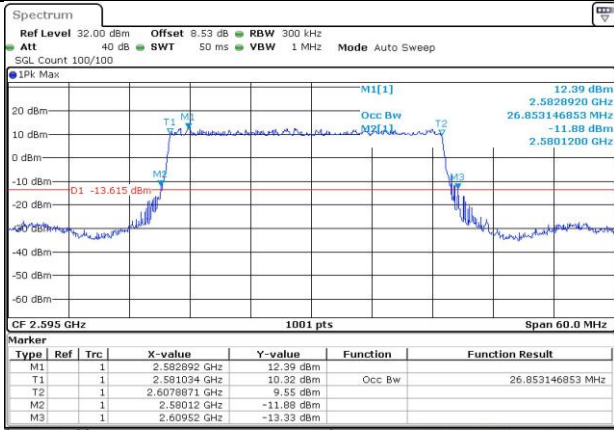
MCH_CP-256QAM / Outer_Full



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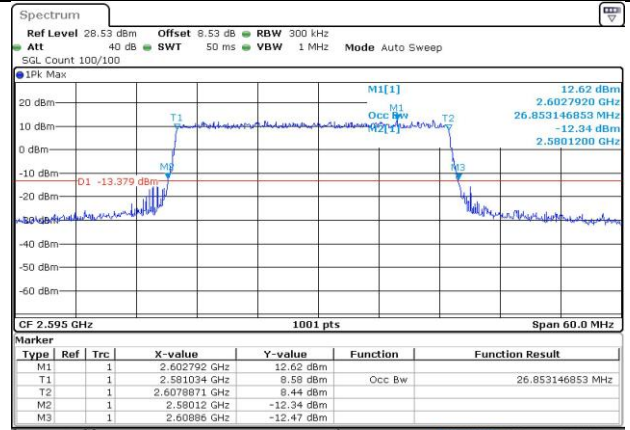
n38A / 30KHz / 30MHz

MCH_DFT-Pi2BPSK / Outer_Full



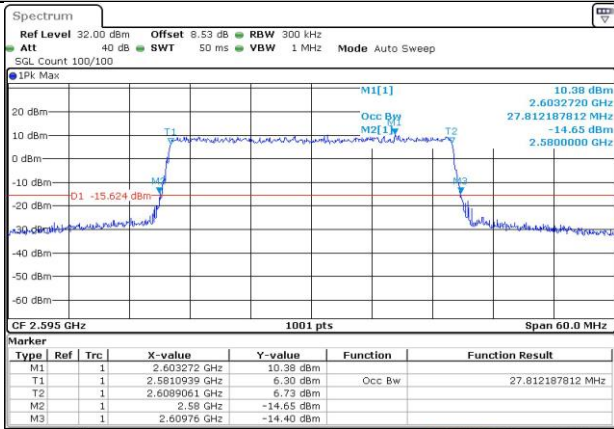
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MCH_DFT-QPSK / Outer_Full



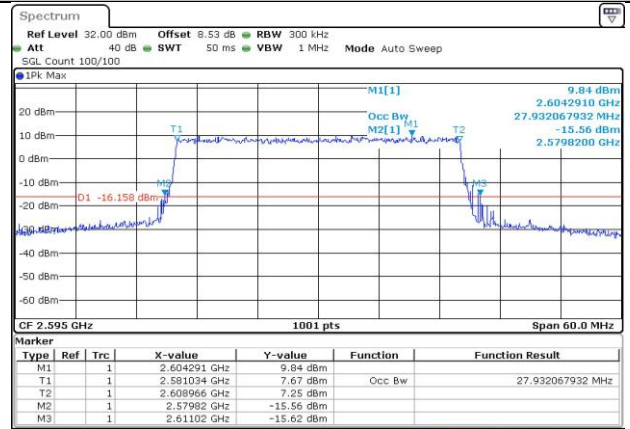
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MCH_CP-QPSK / Outer_Full



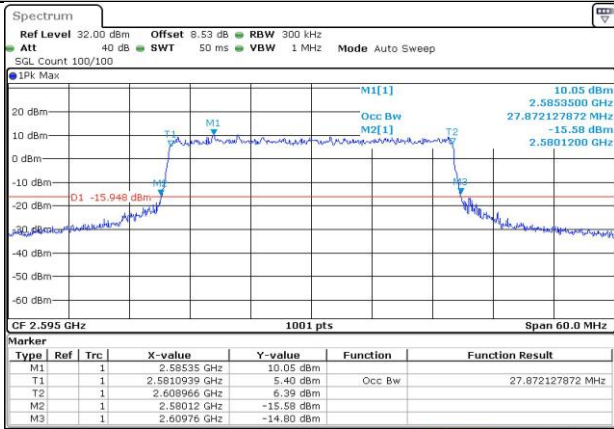
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MCH_CP-16QAM / Outer_Full



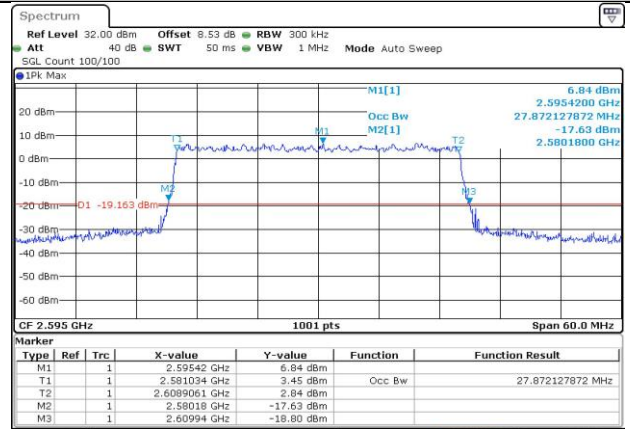
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MCH_CP-64QAM / Outer_Full

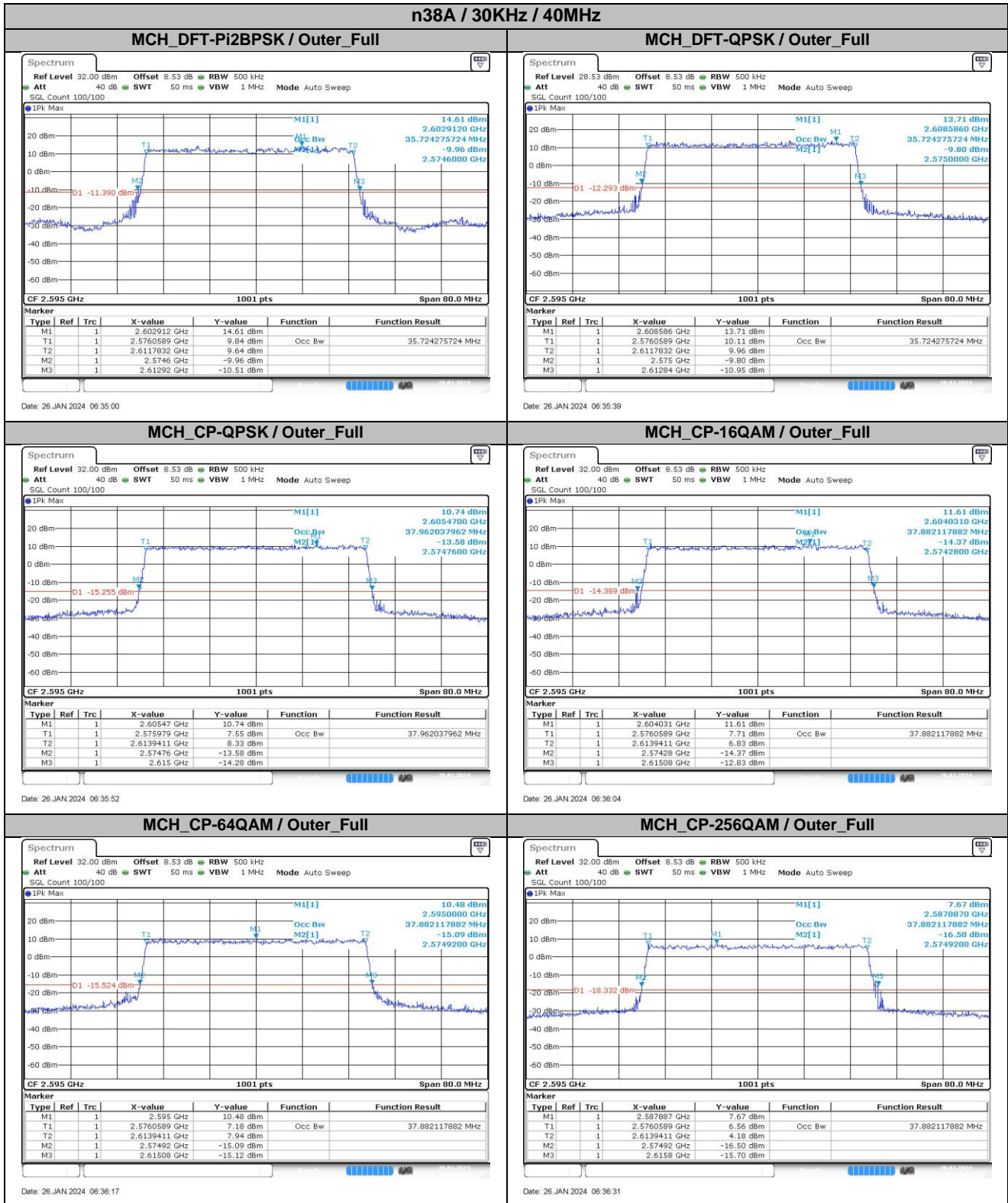


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MCH_CP-256QAM / Outer_Full

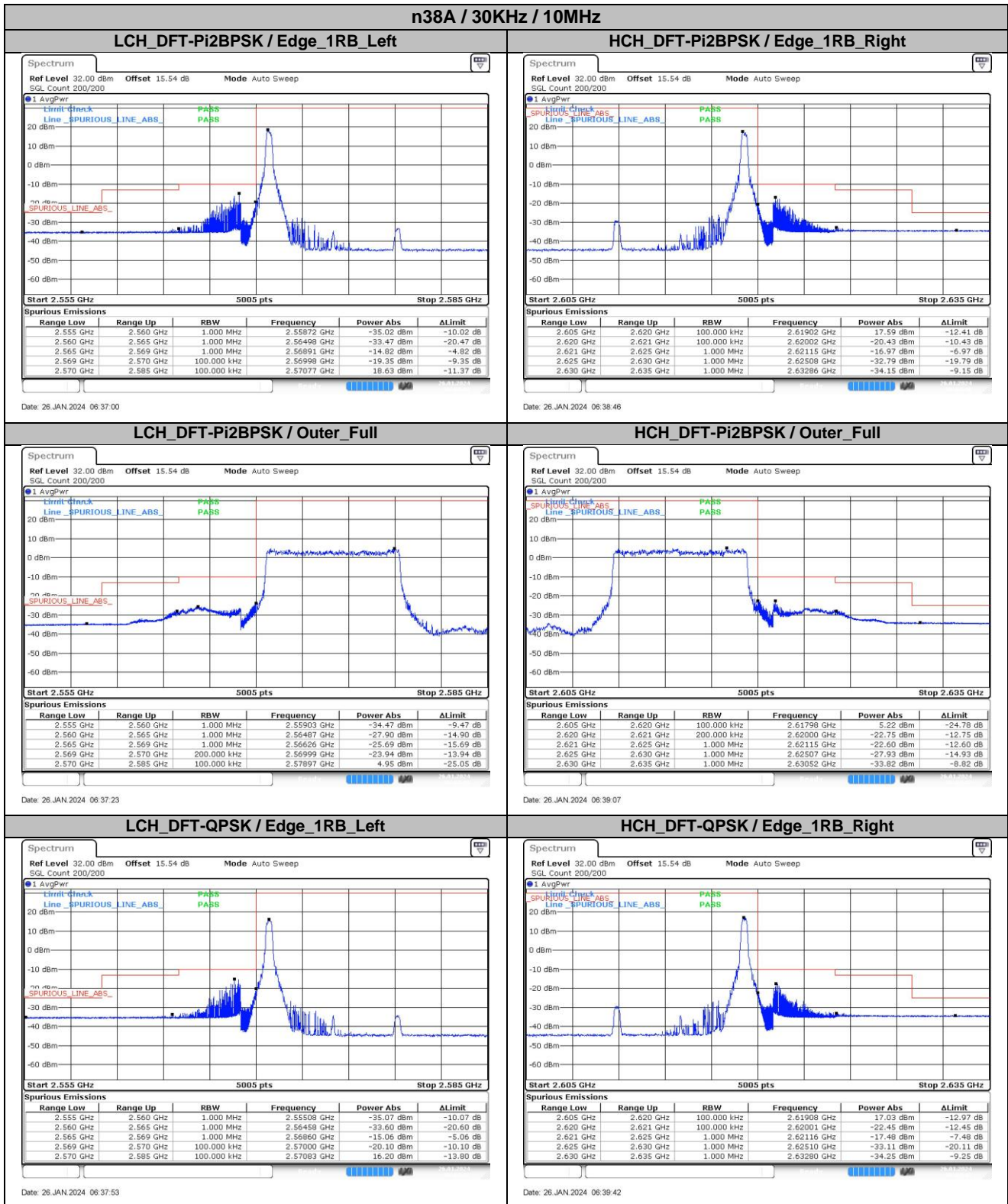


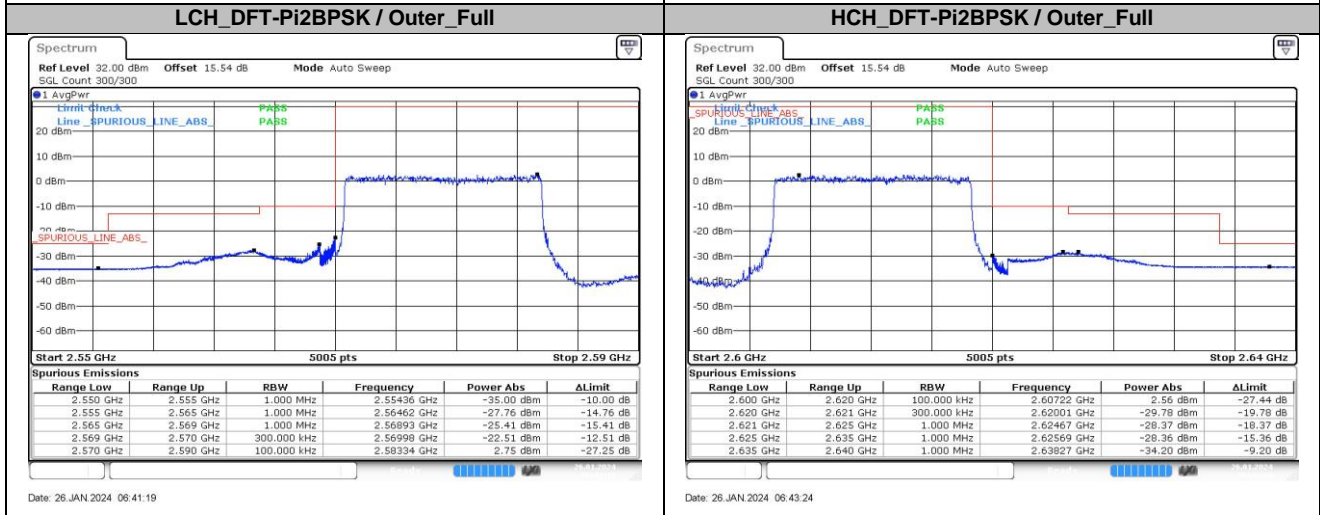
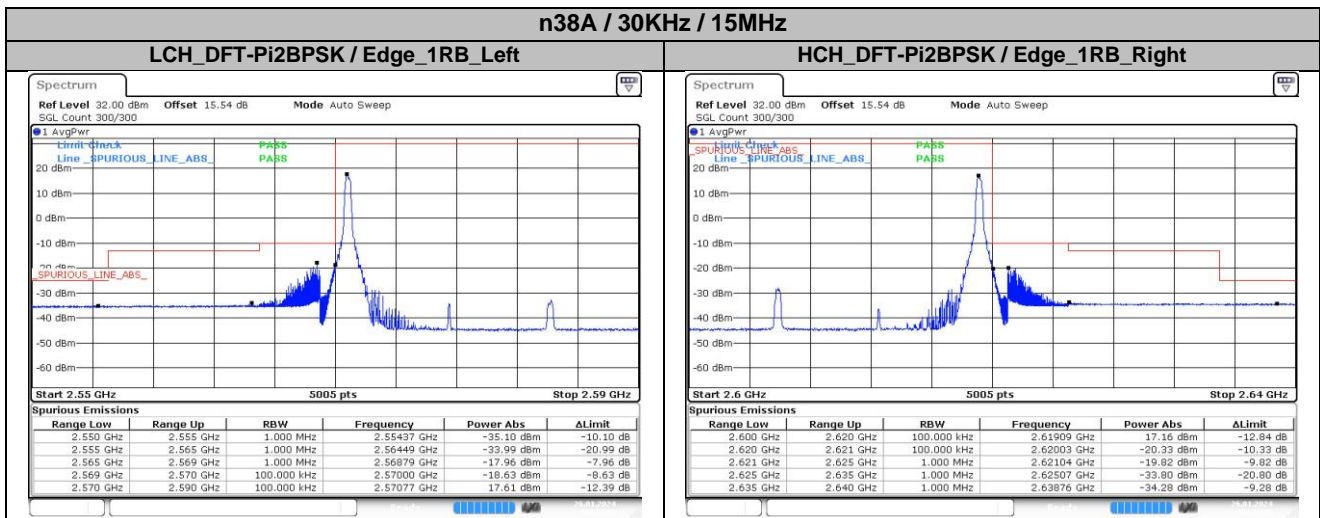
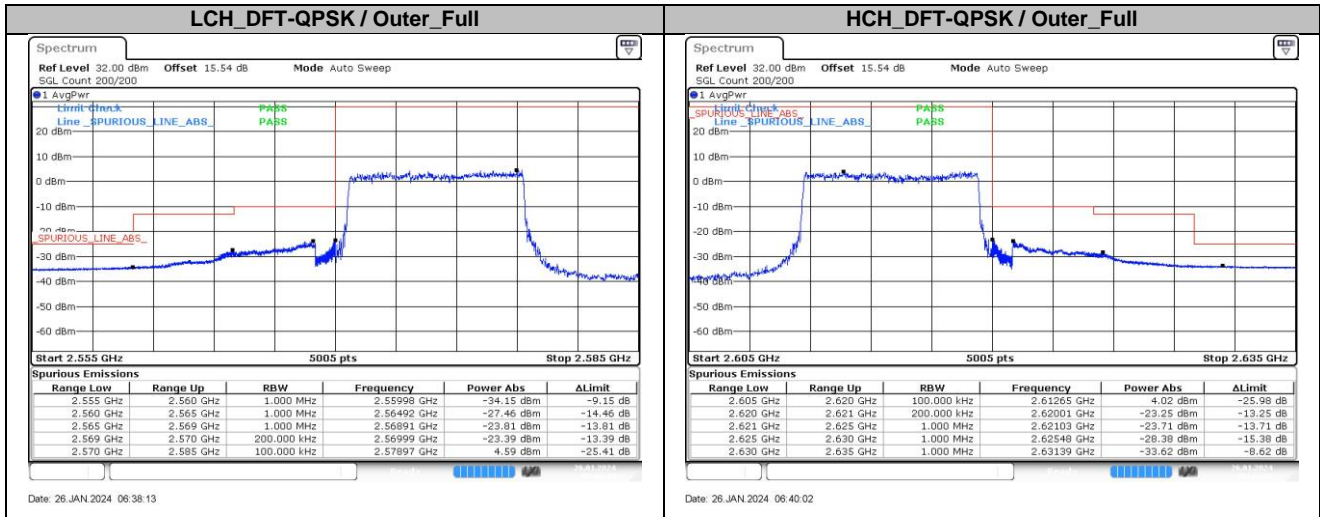
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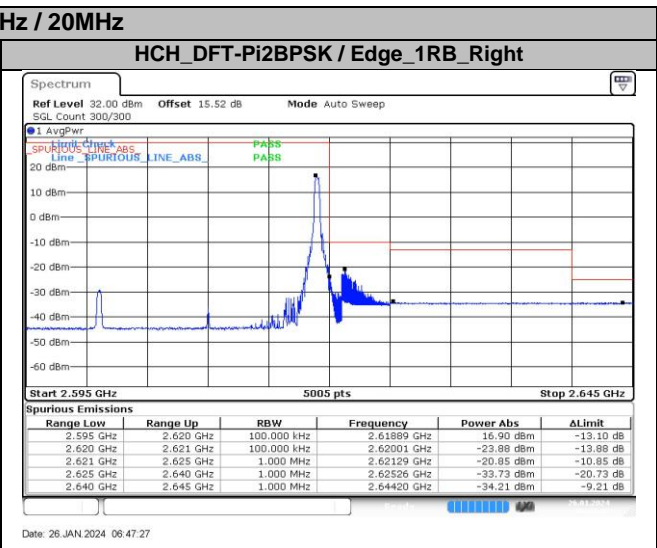
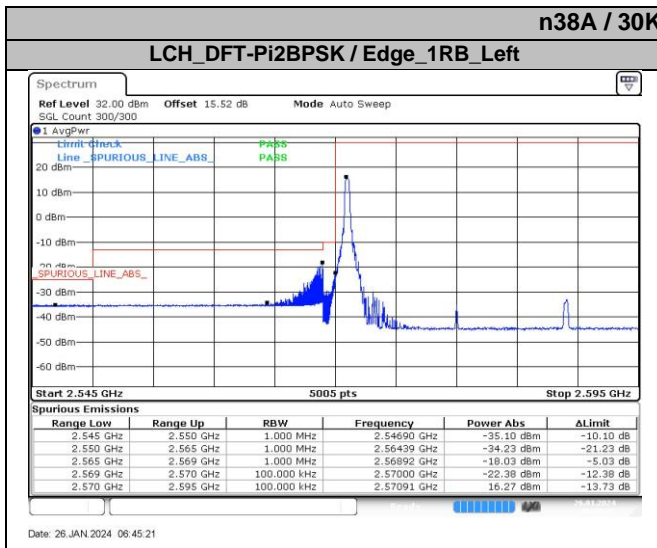
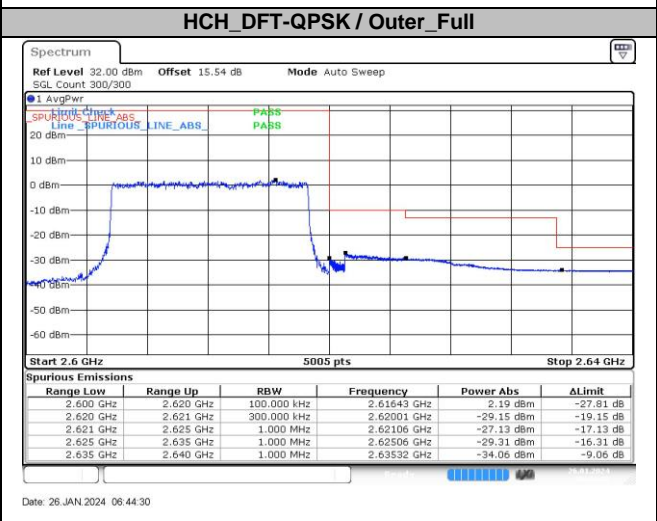
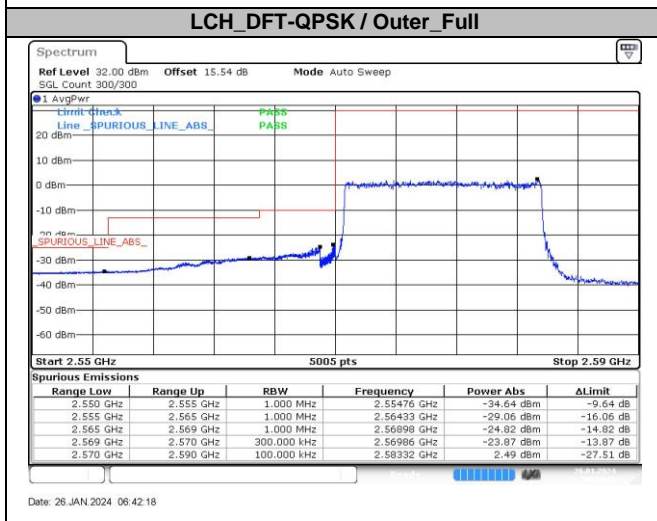
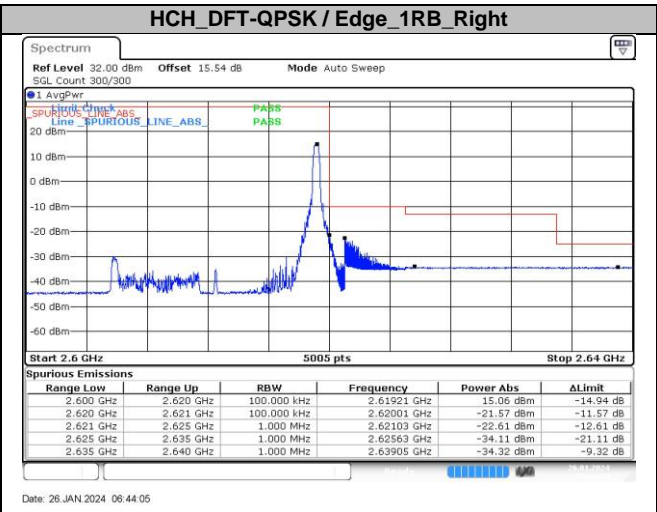
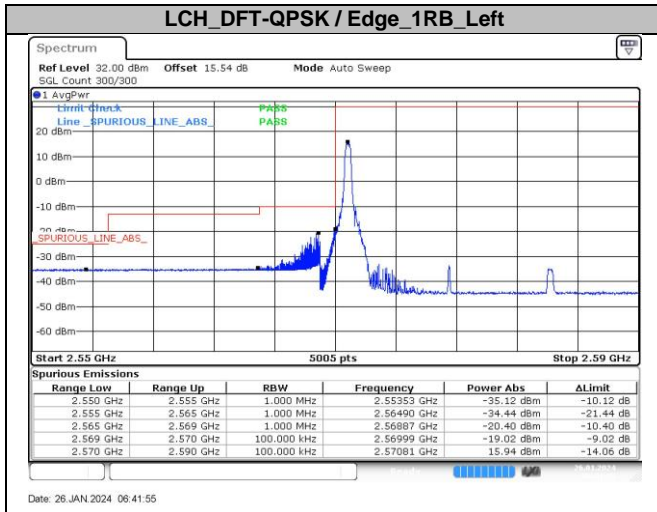


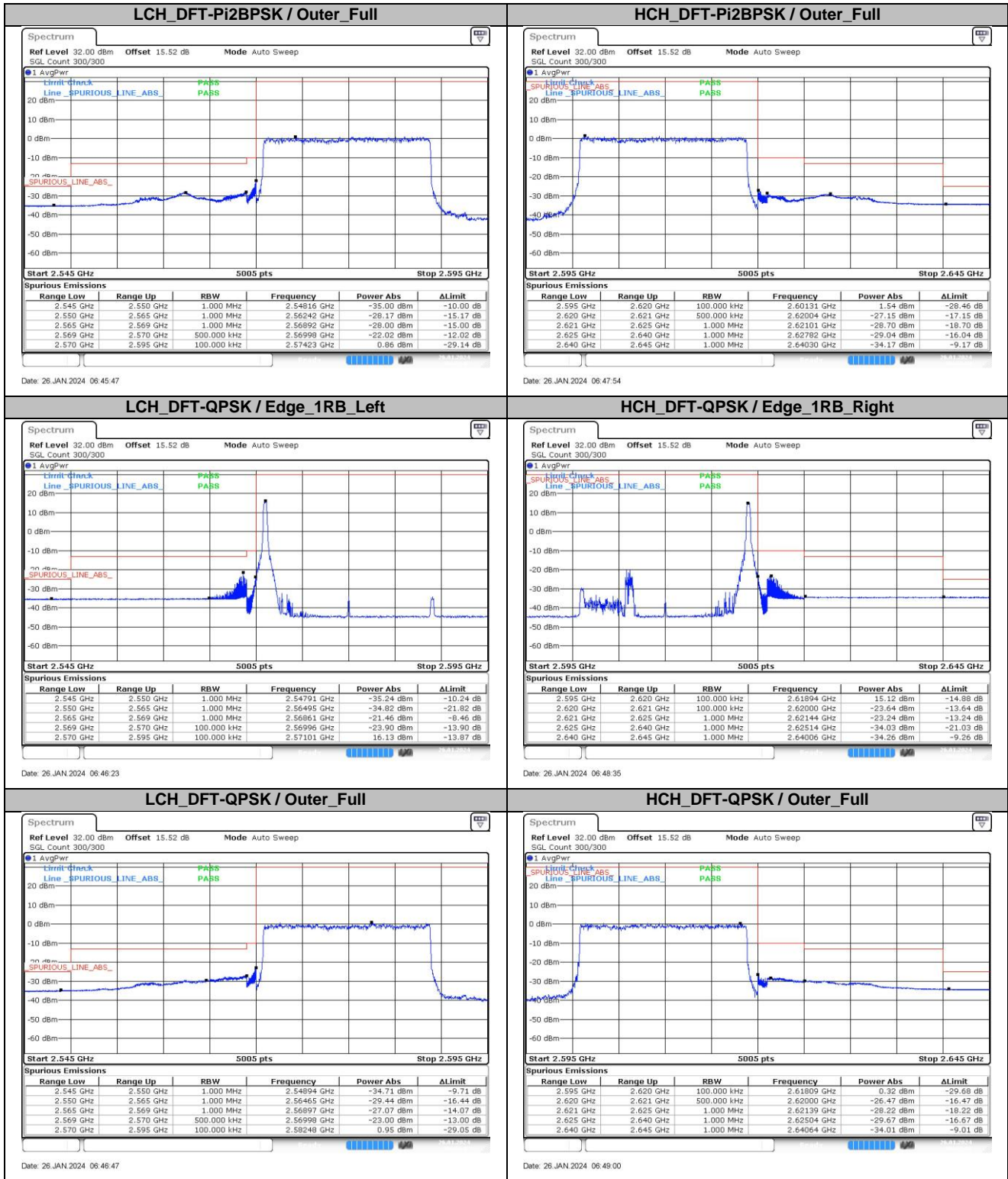
5. Conducted Band Edges

5.1. Test Plots



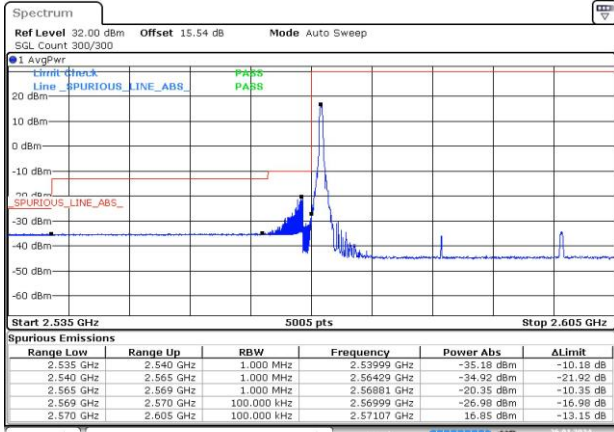






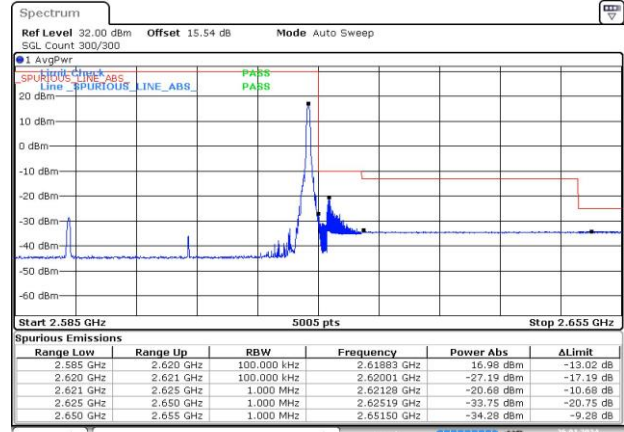
n38A / 30KHz / 30MHz

LCH_DFT-Pi2BPSK / Edge_1RB_Left



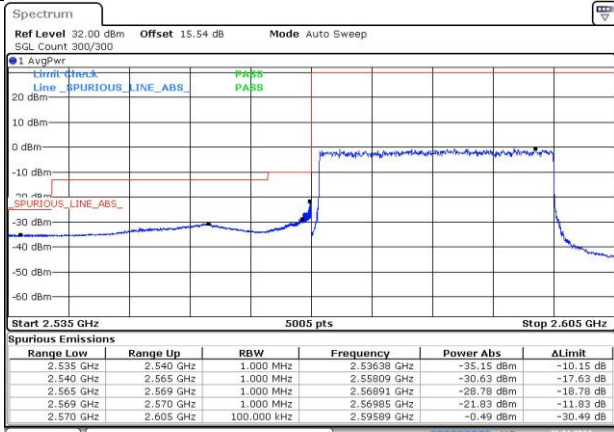
Date: 26.JAN.2024 06:49:53

HCH_DFT-Pi2BPSK / Edge_1RB_Right



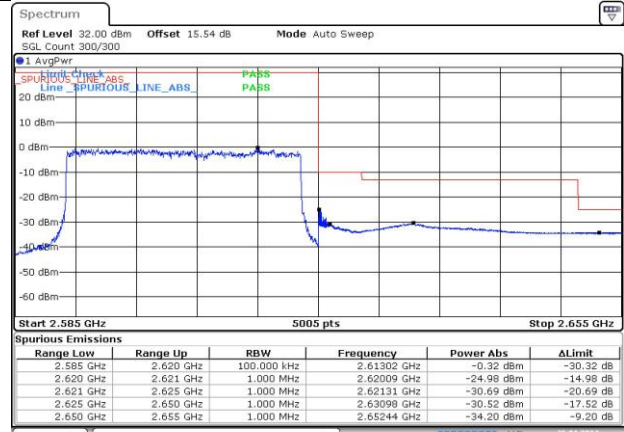
Date: 26.JAN.2024 06:52:06

LCH_DFT-Pi2BPSK / Outer_Full



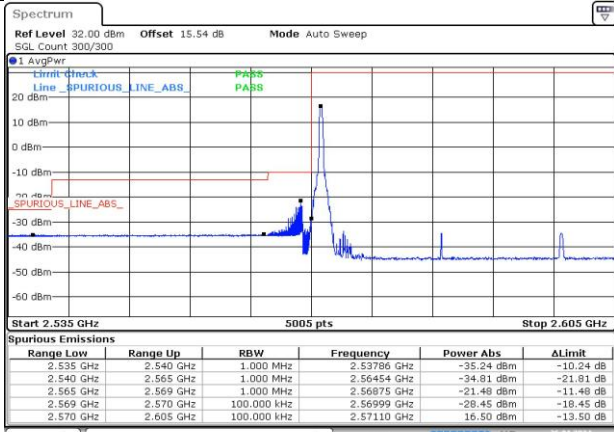
Date: 26.JAN.2024 06:50:20

HCH_DFT-Pi2BPSK / Outer_Full



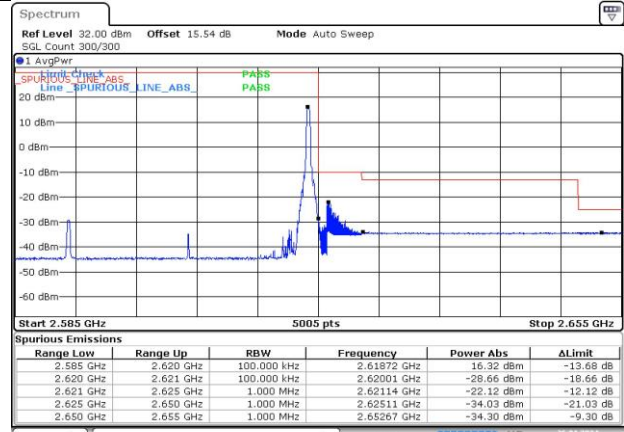
Date: 26.JAN.2024 06:52:33

LCH_DFT-QPSK / Edge_1RB_Left



Date: 26.JAN.2024 06:50:57

HCH_DFT-QPSK / Edge_1RB_Right



Date: 26.JAN.2024 06:53:16