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Appendix B.20

NR Band n26(814-824)



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Transmitter Conducted Power Output

Test Result

ANT41

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Limit	Verdict
N26-814-824	15	5	DFT-QPSK	L	Inner_1RB_Left	23.46	50.00	PASS
N26-814-824	15	5	DFT-16QAM	L	Inner_1RB_Left	22.87	50.00	PASS
N26-814-824	15	5	DFT-QPSK	M	Inner_1RB_Left	23.42	50.00	PASS
N26-814-824	15	5	DFT-16QAM	M	Inner_1RB_Left	22.98	50.00	PASS
N26-814-824	15	5	DFT-QPSK	H	Inner_1RB_Left	23.41	50.00	PASS
N26-814-824	15	5	DFT-16QAM	H	Inner_1RB_Left	22.91	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.35	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.10	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Outer_Full	22.69	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Left	23.38	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Right	23.12	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Outer_Full	22.29	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Inner_1RB_Left	22.26	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Inner_1RB_Right	22.22	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Outer_Full	21.23	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Left	20.88	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Right	20.74	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Outer_Full	20.79	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Left	19.05	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Right	18.79	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Outer_Full	18.84	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.20	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.14	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	22.70	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Left	23.26	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Right	23.30	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	22.26	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Left	22.35	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Right	22.19	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	21.40	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Left	20.93	50.00	PASS



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N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Right	20.83	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	20.74	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Left	19.01	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Right	18.85	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	18.91	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.22	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.11	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Outer_Full	22.60	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Left	23.37	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Right	23.24	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Outer_Full	22.48	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Left	22.25	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Right	22.01	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Outer_Full	21.40	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Left	20.76	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Right	20.64	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Outer_Full	20.83	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Left	19.16	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Right	18.73	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Outer_Full	18.89	50.00	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N26-814-824	15	10	DFT-256QAM	L	Outer_Full	8.77	≤13	PASS
N26-814-824	15	10	CP-256QAM	L	Outer_Full	9.50	≤13	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.63	≤13	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	9.49	≤13	PASS
N26-814-824	15	10	DFT-256QAM	H	Outer_Full	8.68	≤13	PASS
N26-814-824	15	10	CP-256QAM	H	Outer_Full	9.50	≤13	PASS



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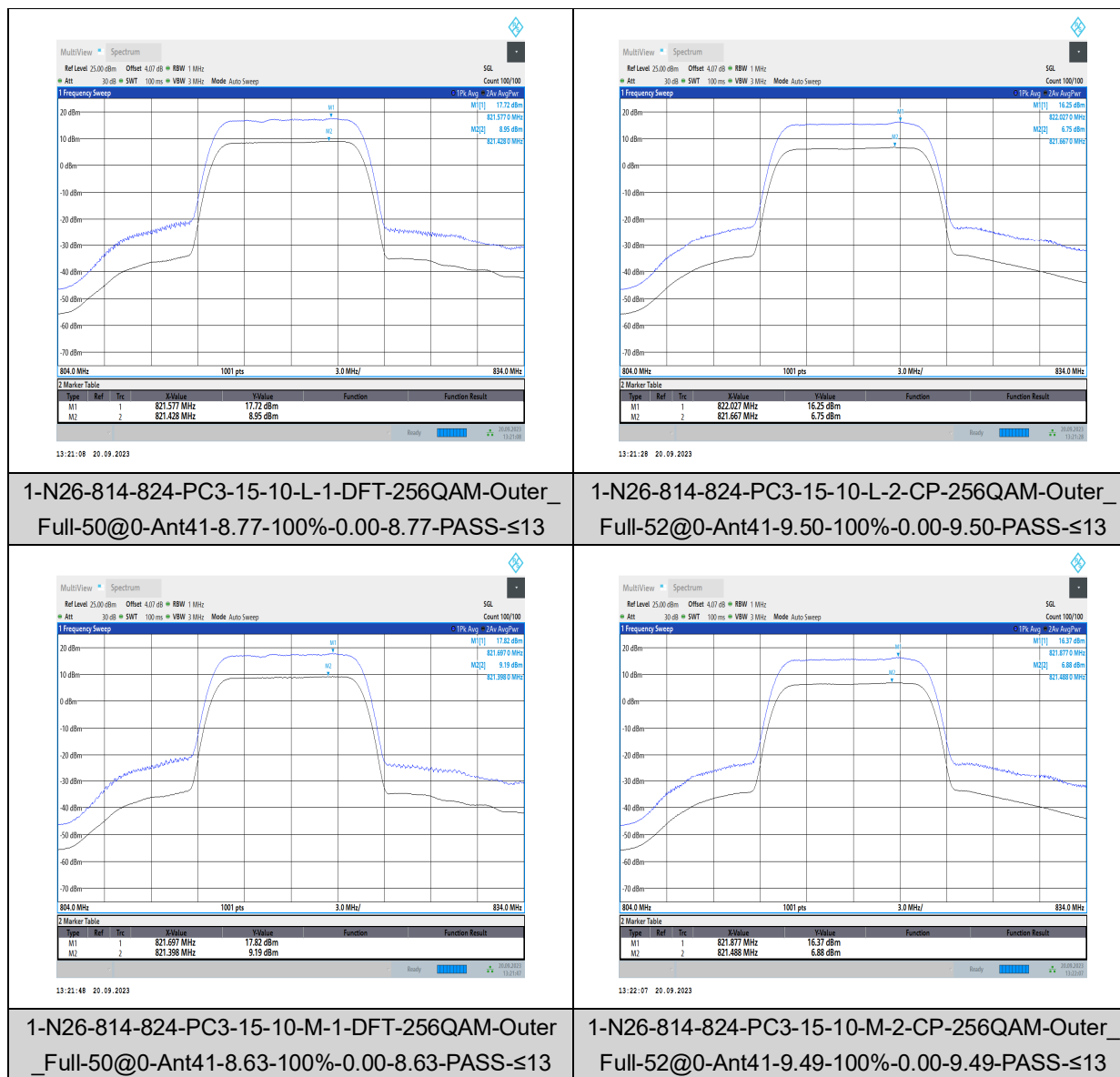
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Test Graphs



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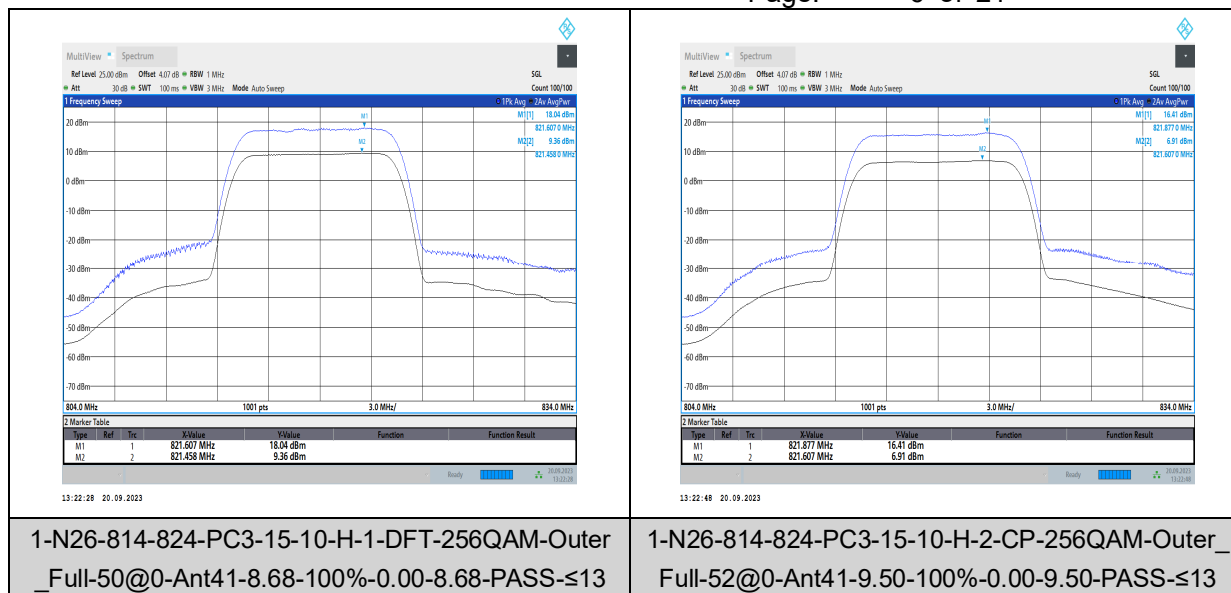
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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	4.455	4.820	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Outer_Full	4.473	4.900	PASS
N26-814-824	15	5	DFT-16QAM	M	Outer_Full	4.481	4.880	PASS
N26-814-824	15	5	DFT-64QAM	M	Outer_Full	4.484	4.930	PASS
N26-814-824	15	5	DFT-256QAM	M	Outer_Full	4.479	4.900	PASS
N26-814-824	15	5	CP-QPSK	M	Outer_Full	4.483	4.940	PASS
N26-814-824	15	5	CP-16QAM	M	Outer_Full	4.48	4.860	PASS
N26-814-824	15	5	CP-64QAM	M	Outer_Full	4.479	4.920	PASS
N26-814-824	15	5	CP-256QAM	M	Outer_Full	4.472	4.950	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	8.917	9.480	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	8.909	9.500	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	8.958	9.460	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	8.931	9.560	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.918	9.420	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	9.279	9.940	PASS
N26-814-824	15	10	CP-16QAM	M	Outer_Full	9.284	9.880	PASS
N26-814-824	15	10	CP-64QAM	M	Outer_Full	9.274	9.940	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	9.279	9.820	PASS



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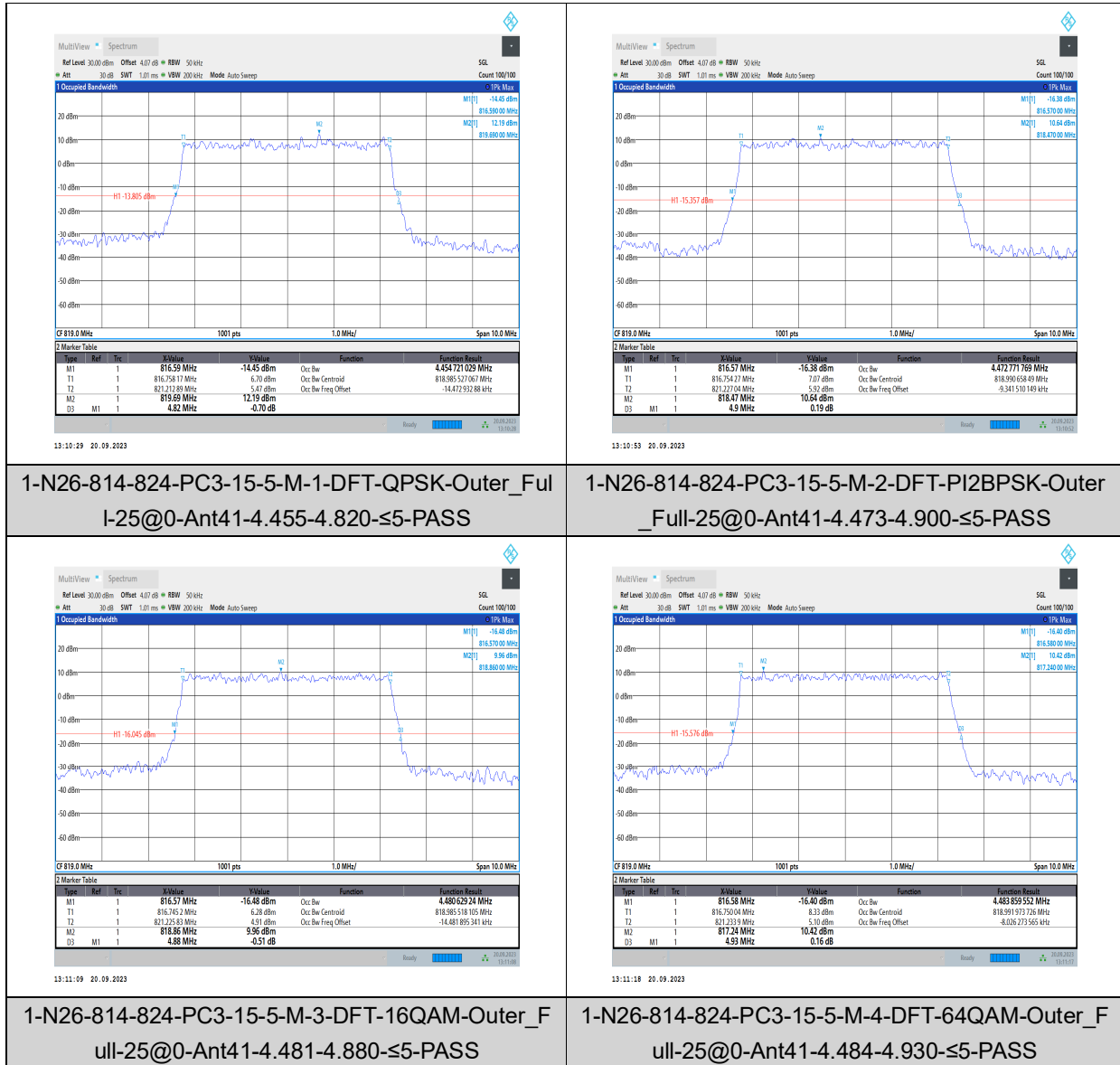
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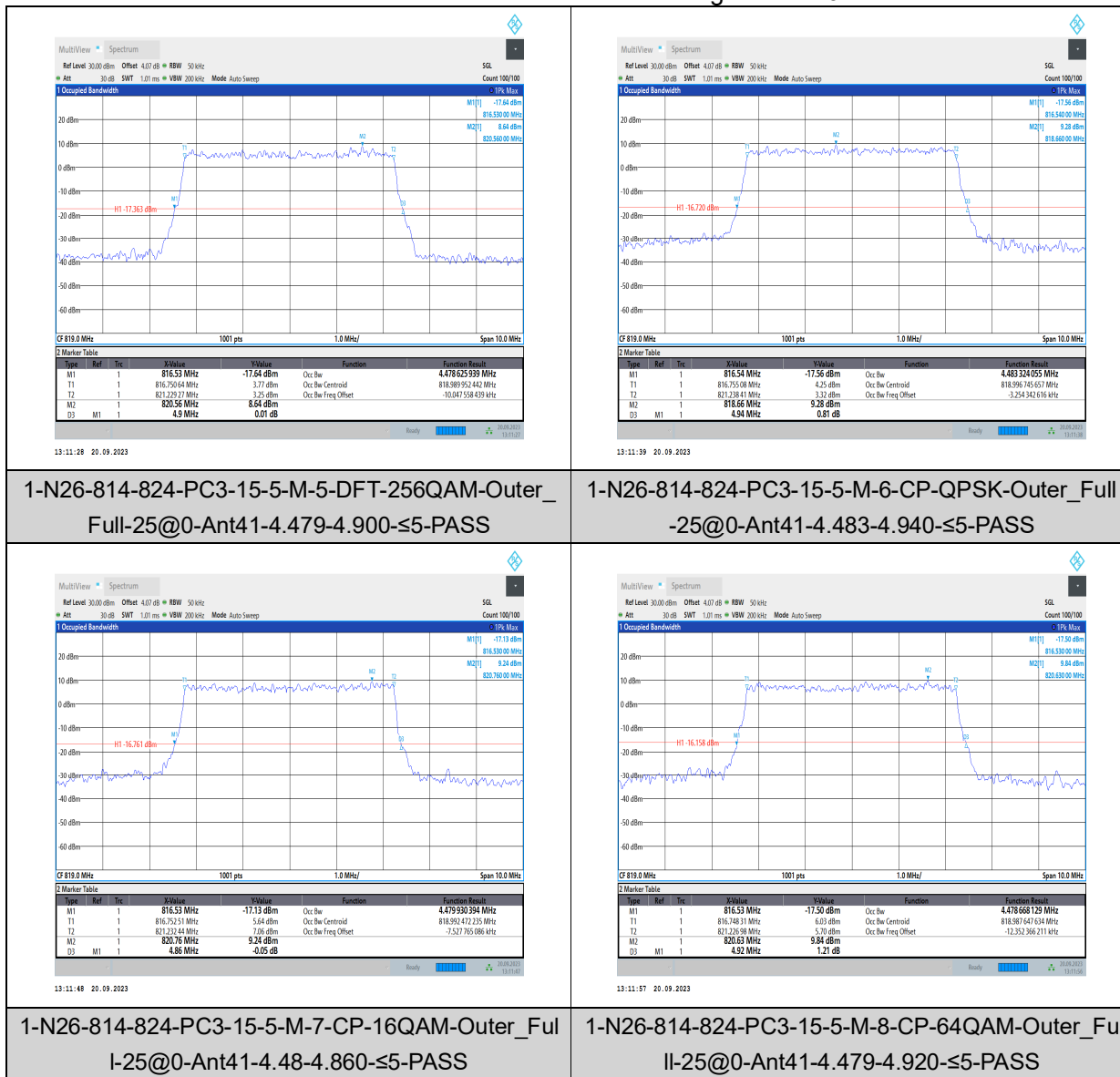
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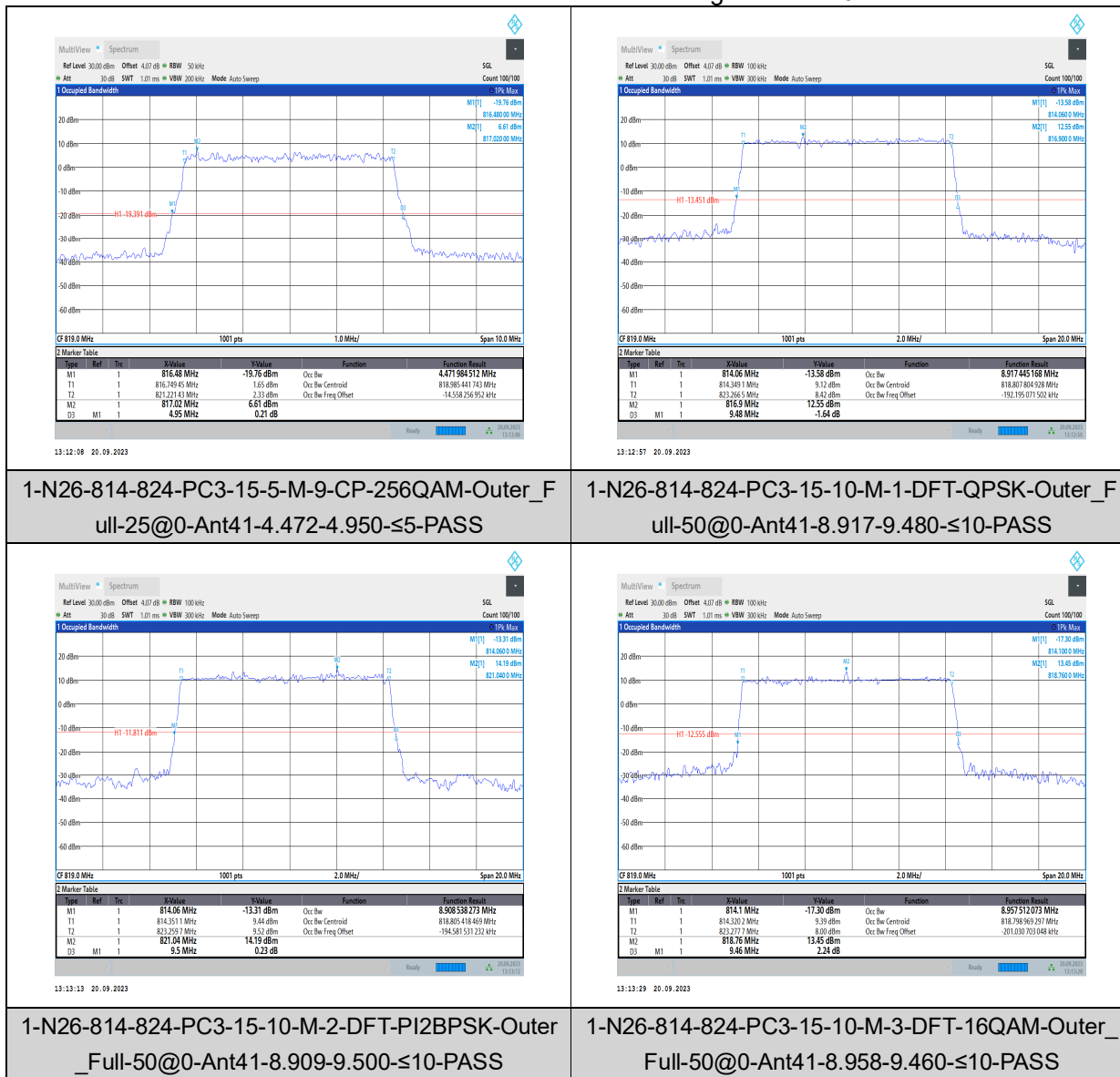
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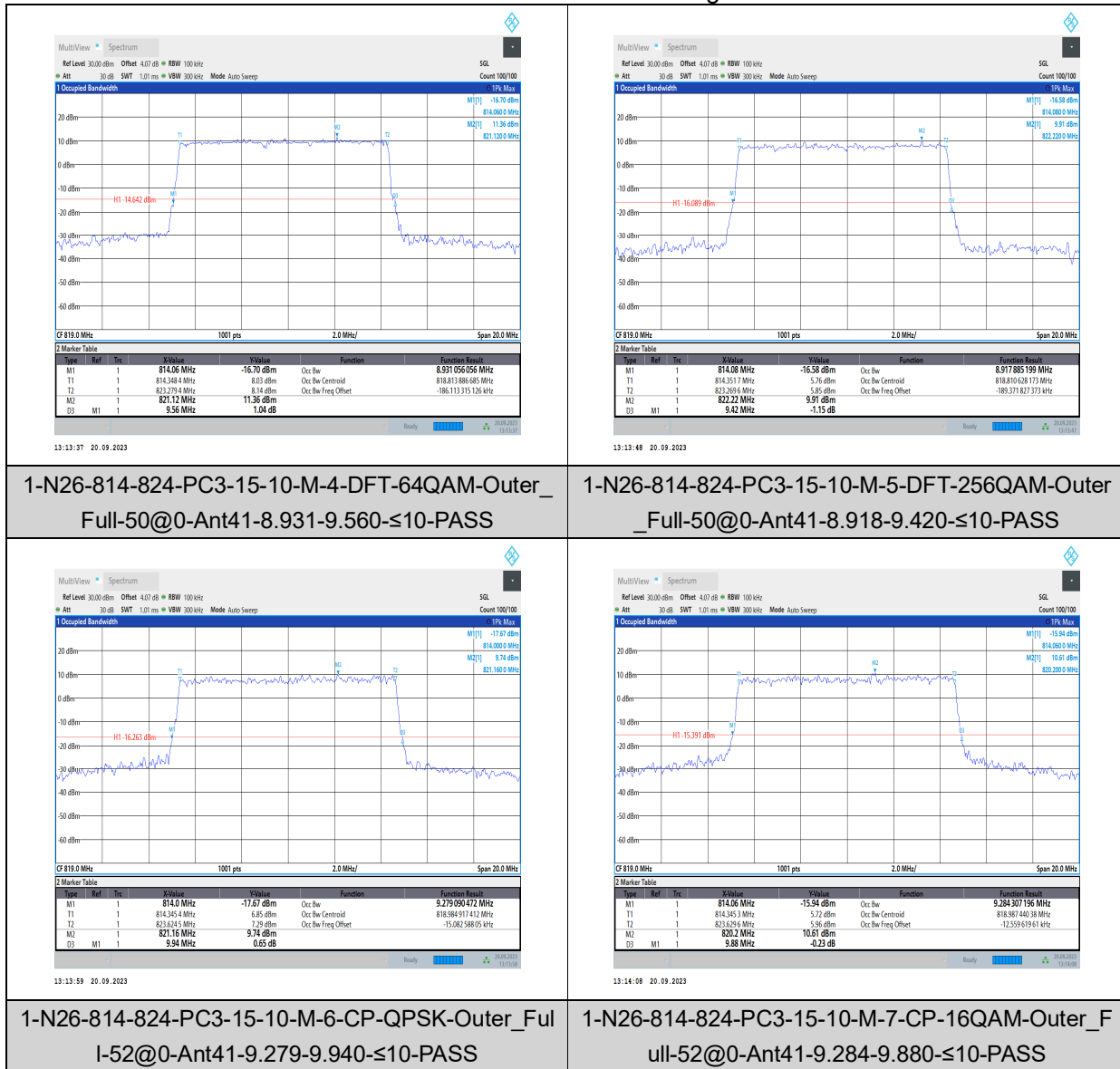
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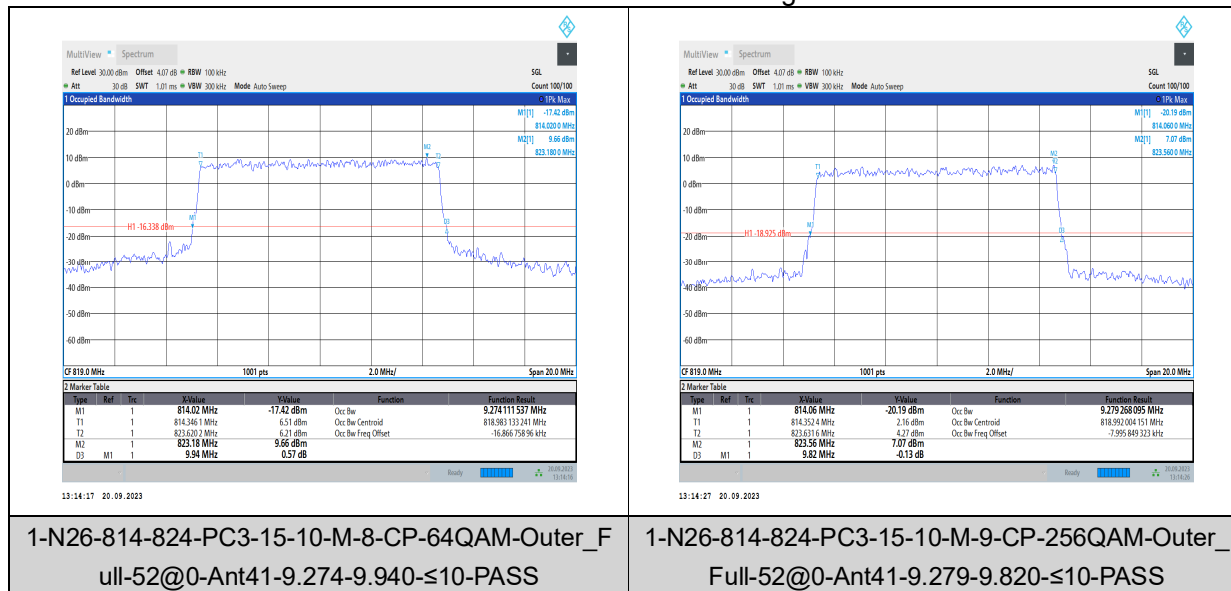
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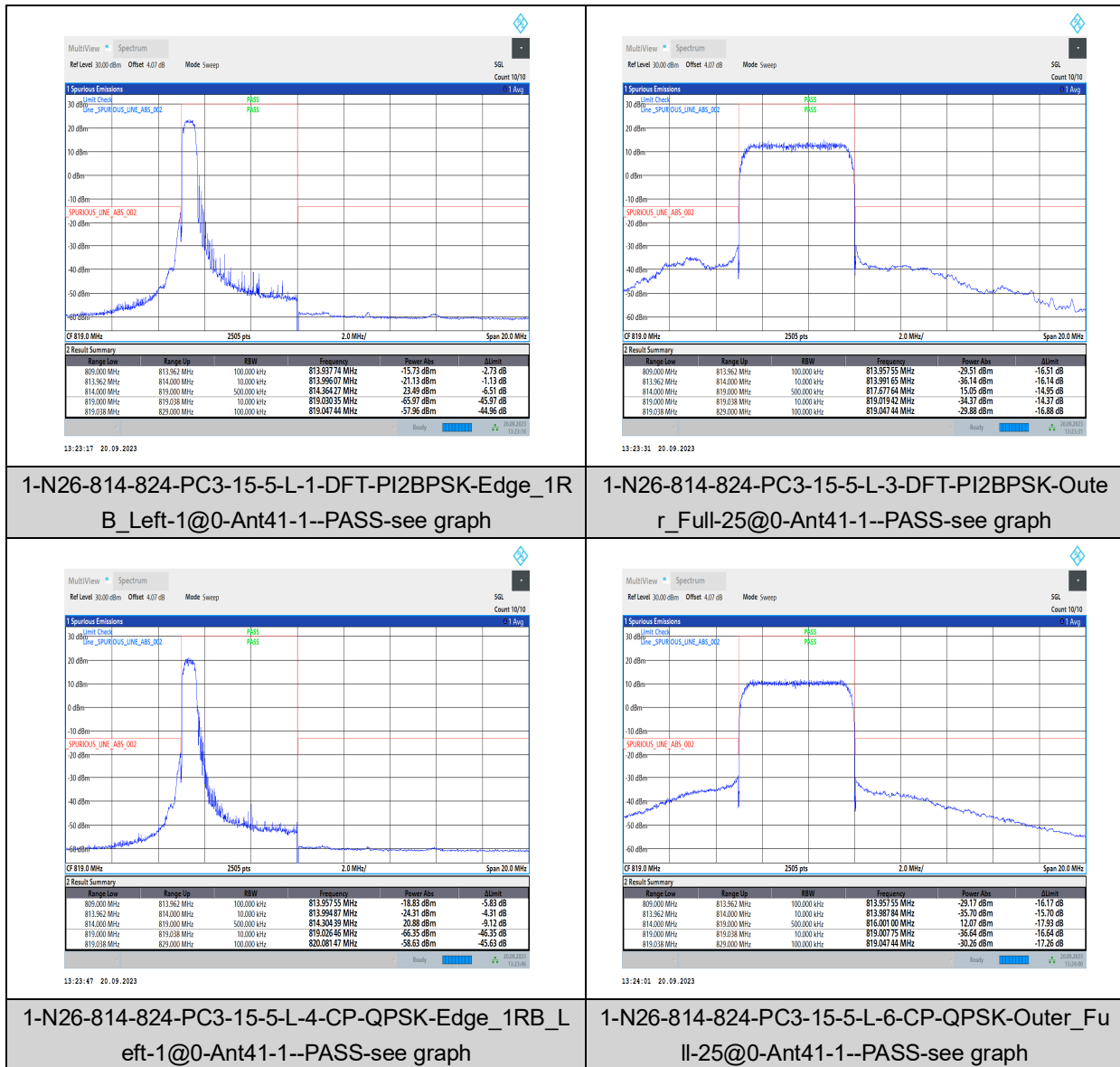
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Band Edge for SA

Test Graphs



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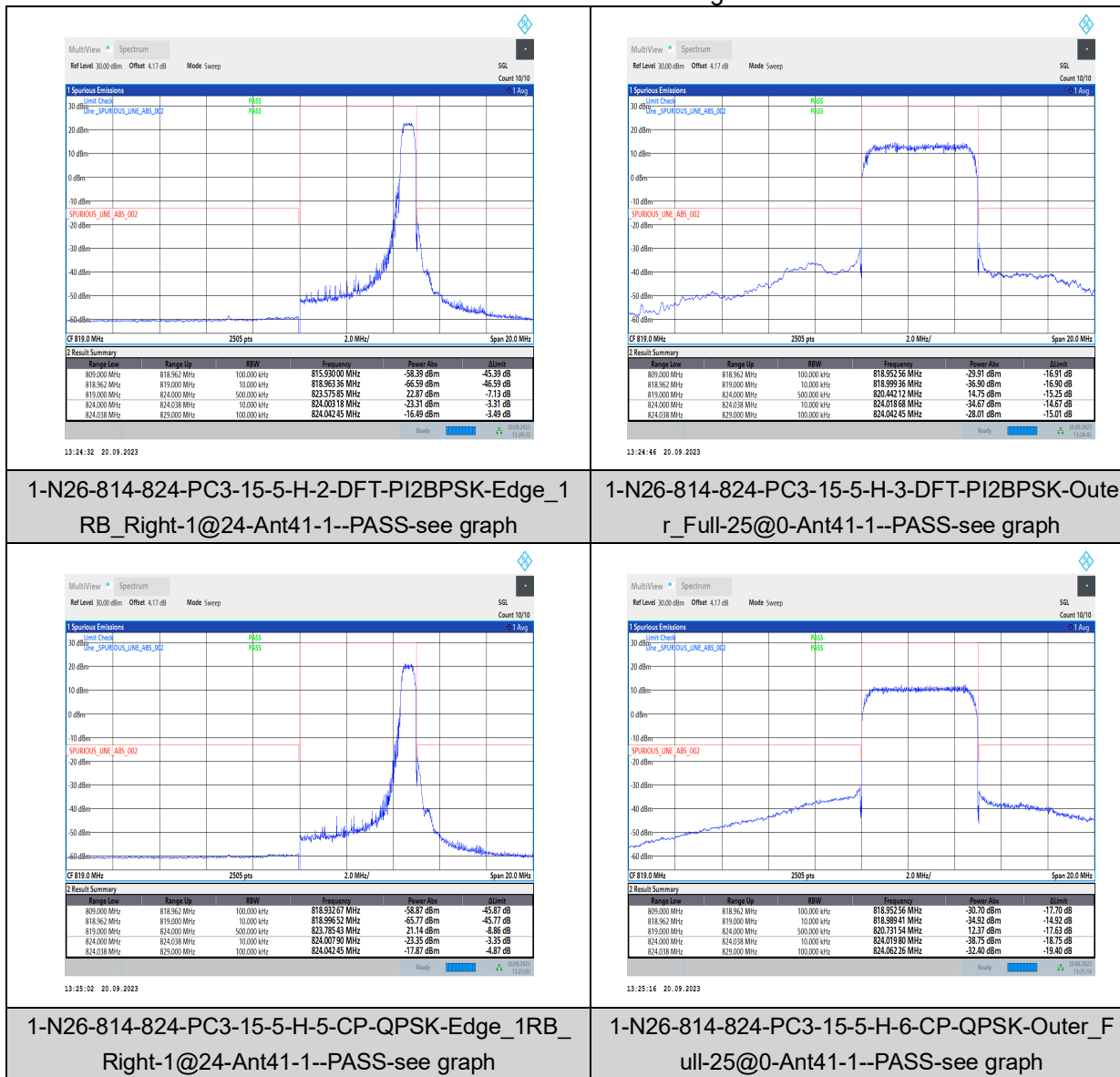
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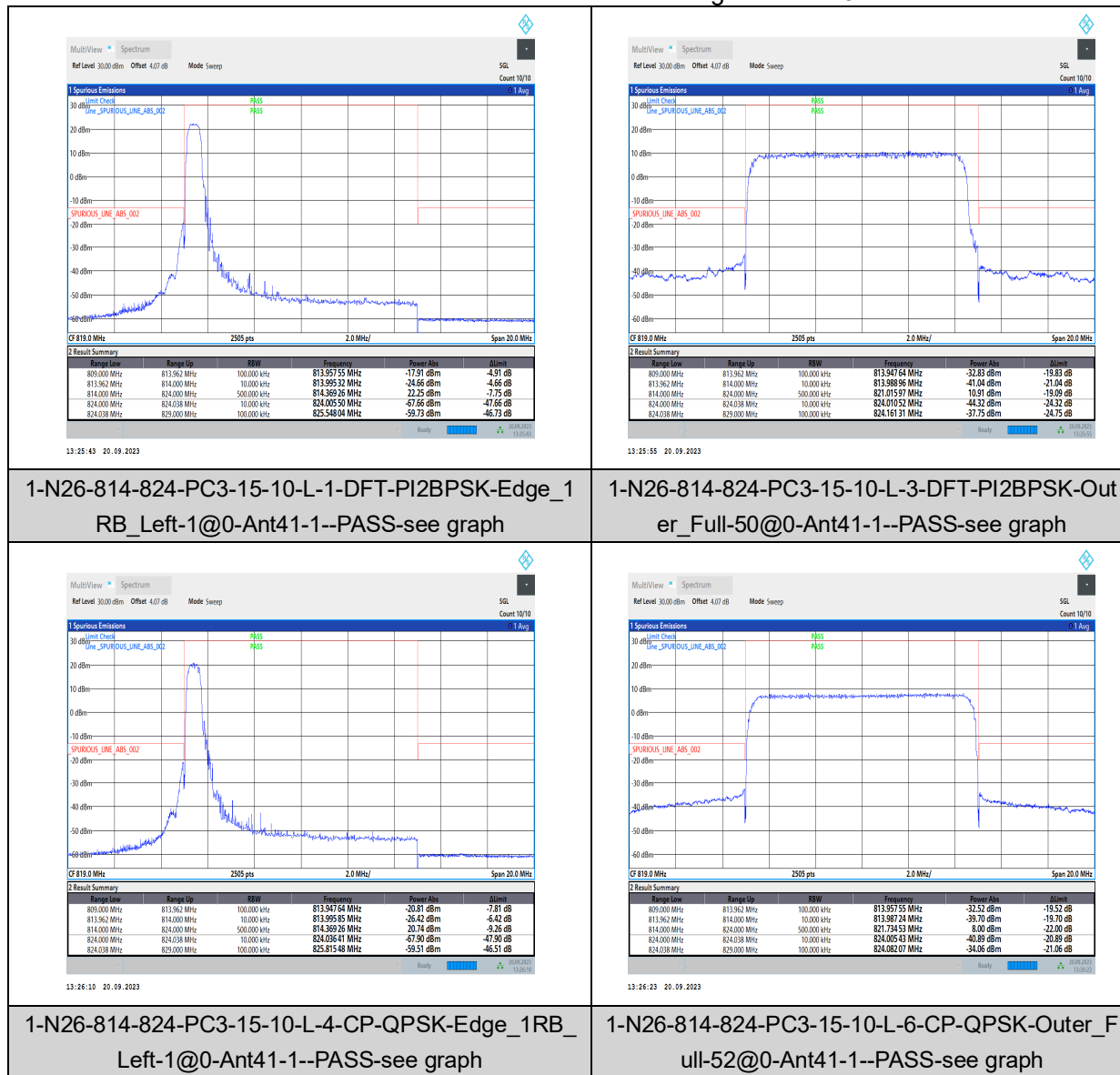
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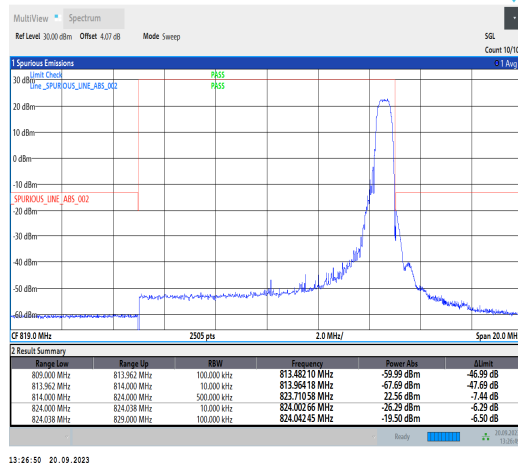
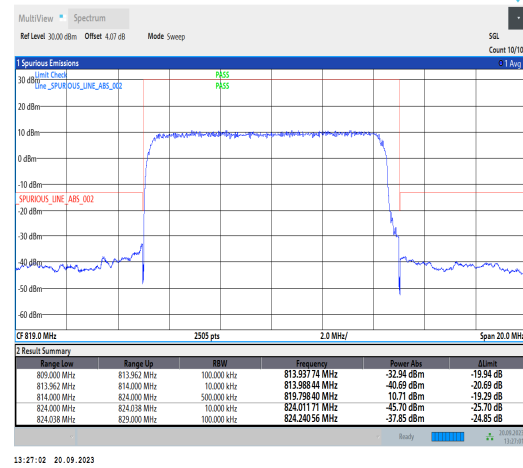
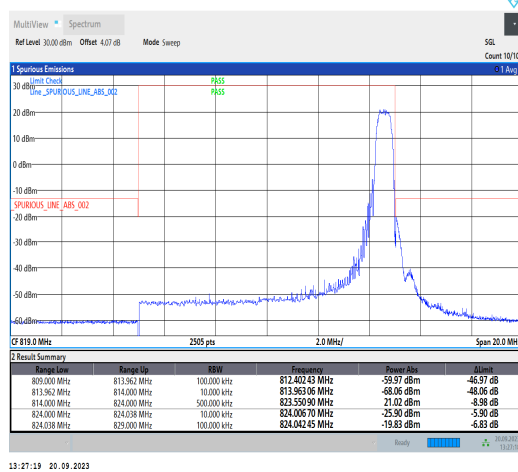
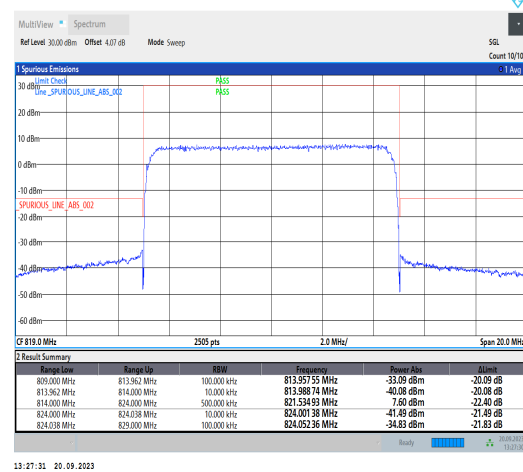
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1-N26-814-824-PC3-15-10-H-2-DFT-PI2BPSK-Edge_1
RB_Right-1@51-Ant41-1--PASS-see graph1-N26-814-824-PC3-15-10-H-3-DFT-PI2BPSK-Out
er_Full-50@0-Ant41-1--PASS-see graph1-N26-814-824-PC3-15-10-H-5-CP-QPSK-Edge_1RB_1
Right-1@51-Ant41-1--PASS-see graph1-N26-814-824-PC3-15-10-H-6-CP-QPSK-Outer_1
Full-52@0-Ant41-1--PASS-see graph

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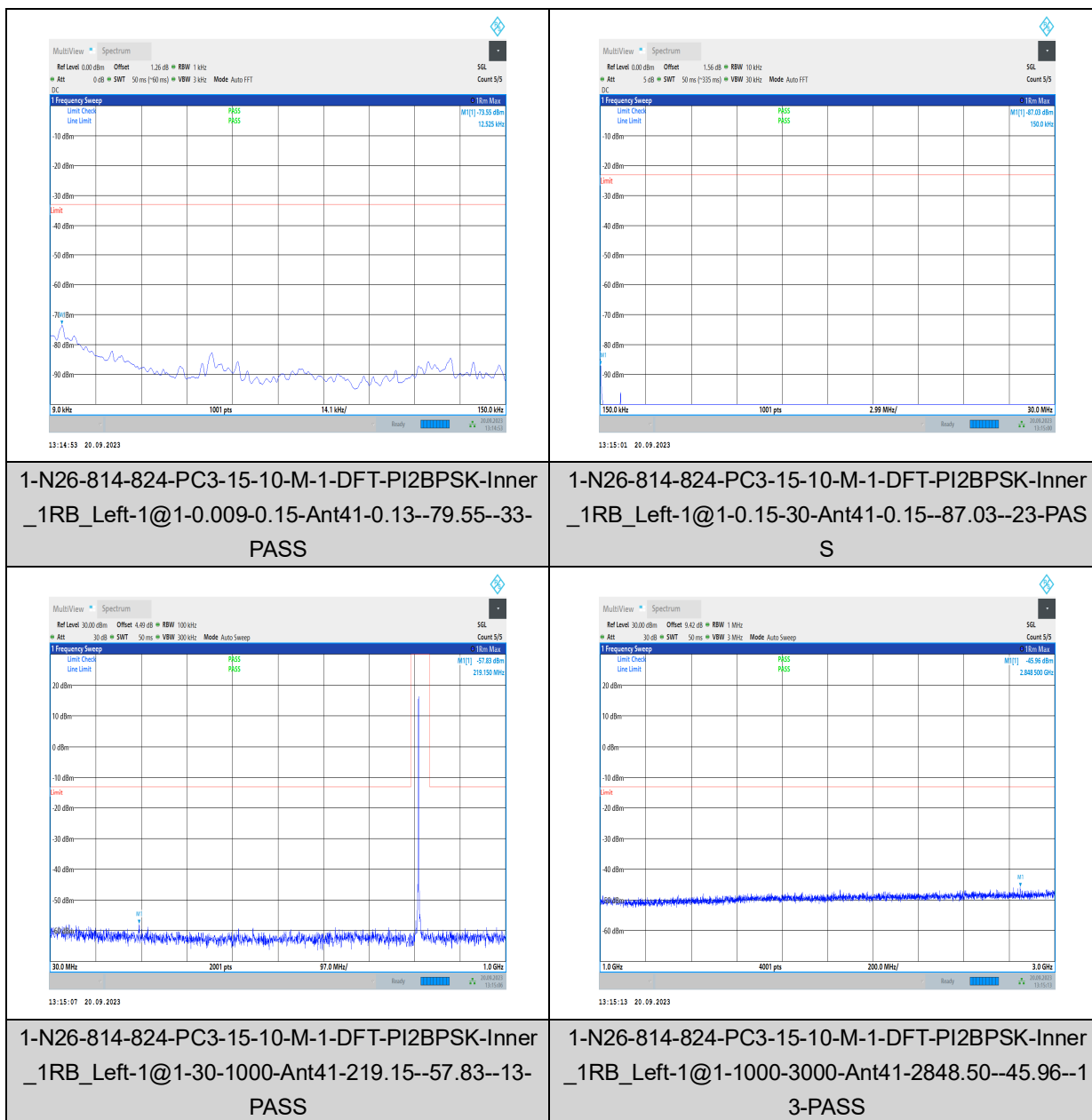
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Conducted Spurious Emission for SA

Test Graphs



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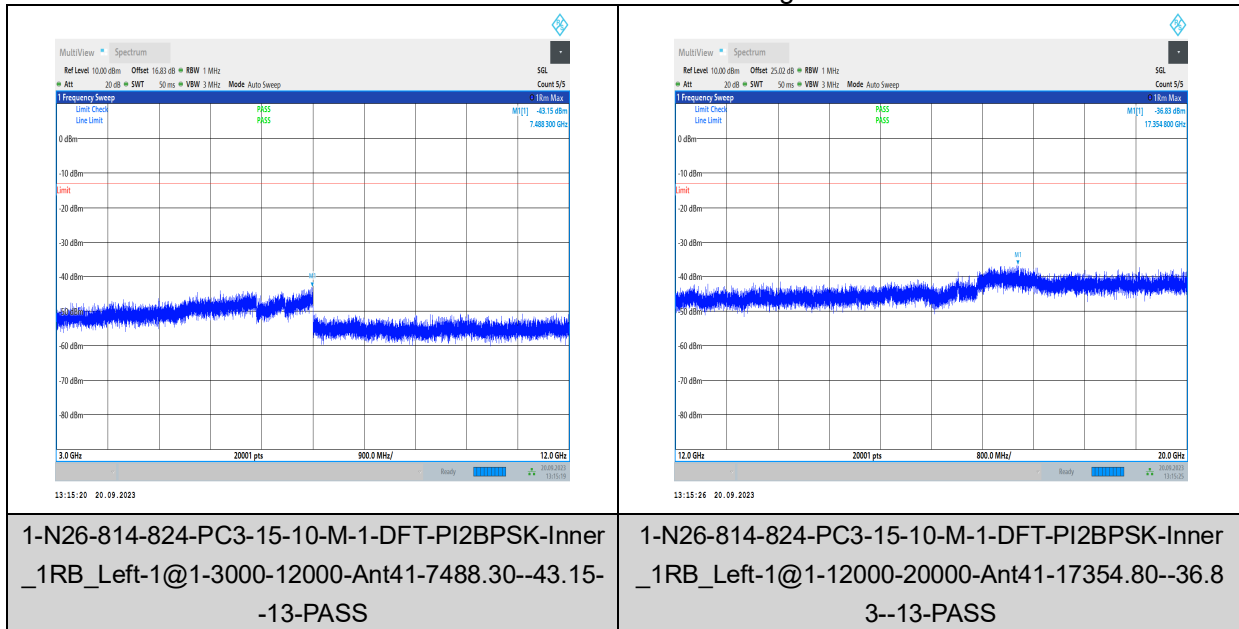
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Field Strength of Spurious Radiation

Test Band = SA Band26-10M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1449.7143	43.40	-48.16	25.12	-74.89	-13.00	61.89	Horizontal
2	1890.8571	42.61	-48.04	25.68	-75.01	-13.00	62.01	Horizontal
3	2670.2857	42.51	-47.01	27.64	-72.12	-13.00	59.12	Horizontal
4	3482.2857	43.01	-46.54	28.59	-70.20	-13.00	57.20	Horizontal
5	4592	41.10	-45.77	30.50	-69.43	-13.00	56.43	Horizontal
6	5878.8571	40.28	-44.90	32.68	-67.21	-13.00	54.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1276.5714	44.84	-48.23	25.16	-73.49	-13.00	60.49	Vertical
2	1755.4286	43.85	-48.04	25.43	-74.02	-13.00	61.02	Vertical
3	2649.7143	43.23	-46.99	27.60	-71.42	-13.00	58.42	Vertical
4	3192	43.00	-46.33	28.42	-70.17	-13.00	57.17	Vertical
5	5693.7143	40.06	-44.61	32.64	-67.18	-13.00	54.18	Vertical
6	6682.2857	39.34	-44.14	34.63	-65.43	-13.00	52.43	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-0.800000	-0.000977	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.700000	-0.003297	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.600000	-0.004396	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VH	NT	0.800000	0.000977	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VN	NT	0.300000	0.000366	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VL	NT	-1.400000	-0.001709	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.900000	-0.002320	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.500000	-0.001832	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.600000	-0.001954	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.600000	-0.003175	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.100000	-0.003785	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.600000	-0.004396	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-0.900000	-0.001099	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.600000	-0.003175	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.200000	-0.002686	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-30	1.600000	0.001954	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-20	-0.700000	-0.000855	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-10	-1.600000	-0.001954	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	0	1.400000	0.001709	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	10	1.000000	0.001221	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	20	1.700000	0.002076	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	30	-1.200000	-0.001465	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	40	2.400000	0.002930	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	50	-0.900000	-0.001099	PASS

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