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Appendix B.18

NR Band n5



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Effective (Isotropic) Radiated Power Output Data for SA**Test Result**

ANT41

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N5	15	5	DFT-QPSK	L	Inner_1RB_Left	23.38	16.73	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Left	22.69	16.04	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Left	23.23	16.58	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Left	22.56	15.91	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Left	23.17	16.52	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Left	22.72	16.07	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Left	23.56	16.91	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Left	23.06	16.41	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Left	23.27	16.62	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Left	22.78	16.13	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Left	23.28	16.63	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Left	22.68	16.03	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Left	23.41	16.76	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Left	22.95	16.30	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Left	23.31	16.66	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Left	22.74	16.09	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Left	23.12	16.47	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Left	22.66	16.01	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.43	16.78	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.18	16.53	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	22.81	16.16	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Left	23.33	16.68	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Right	22.99	16.34	38.45	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	22.57	15.92	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Left	22.93	16.28	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Right	22.66	16.01	38.45	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	21.79	15.14	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Left	21.52	14.87	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Right	21.07	14.42	38.45	PASS
N5	15	20	DFT-64QAM	L	Outer_Full	21.20	14.55	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Left	18.88	12.23	38.45	PASS



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N5	15	20	DFT-256QAM	L	Inner_1RB_Right	18.46	11.81	38.45	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	19.22	12.57	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.37	16.72	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	23.03	16.38	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	22.72	16.07	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Left	23.26	16.61	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Right	23.02	16.37	38.45	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	22.53	15.88	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Left	22.83	16.18	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Right	22.61	15.96	38.45	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	21.74	15.09	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Left	21.41	14.76	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Right	21.10	14.45	38.45	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	21.07	14.42	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Left	18.79	12.14	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Right	18.43	11.78	38.45	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	19.09	12.44	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.28	16.63	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	23.09	16.44	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	22.69	16.04	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Left	23.19	16.54	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Right	23.00	16.35	38.45	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	22.50	15.85	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Left	22.85	16.20	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Right	22.62	15.97	38.45	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	21.72	15.07	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Left	21.36	14.71	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Right	21.10	14.45	38.45	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	21.04	14.39	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Left	18.73	12.08	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Right	18.47	11.82	38.45	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	19.16	12.51	38.45	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N5	15	20	DFT-256QAM	L	Outer_Full	8.73	≤13	PASS
N5	15	20	CP-256QAM	L	Outer_Full	9.29	≤13	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	8.79	≤13	PASS
N5	15	20	CP-256QAM	M	Outer_Full	9.32	≤13	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	8.80	≤13	PASS
N5	15	20	CP-256QAM	H	Outer_Full	9.36	≤13	PASS



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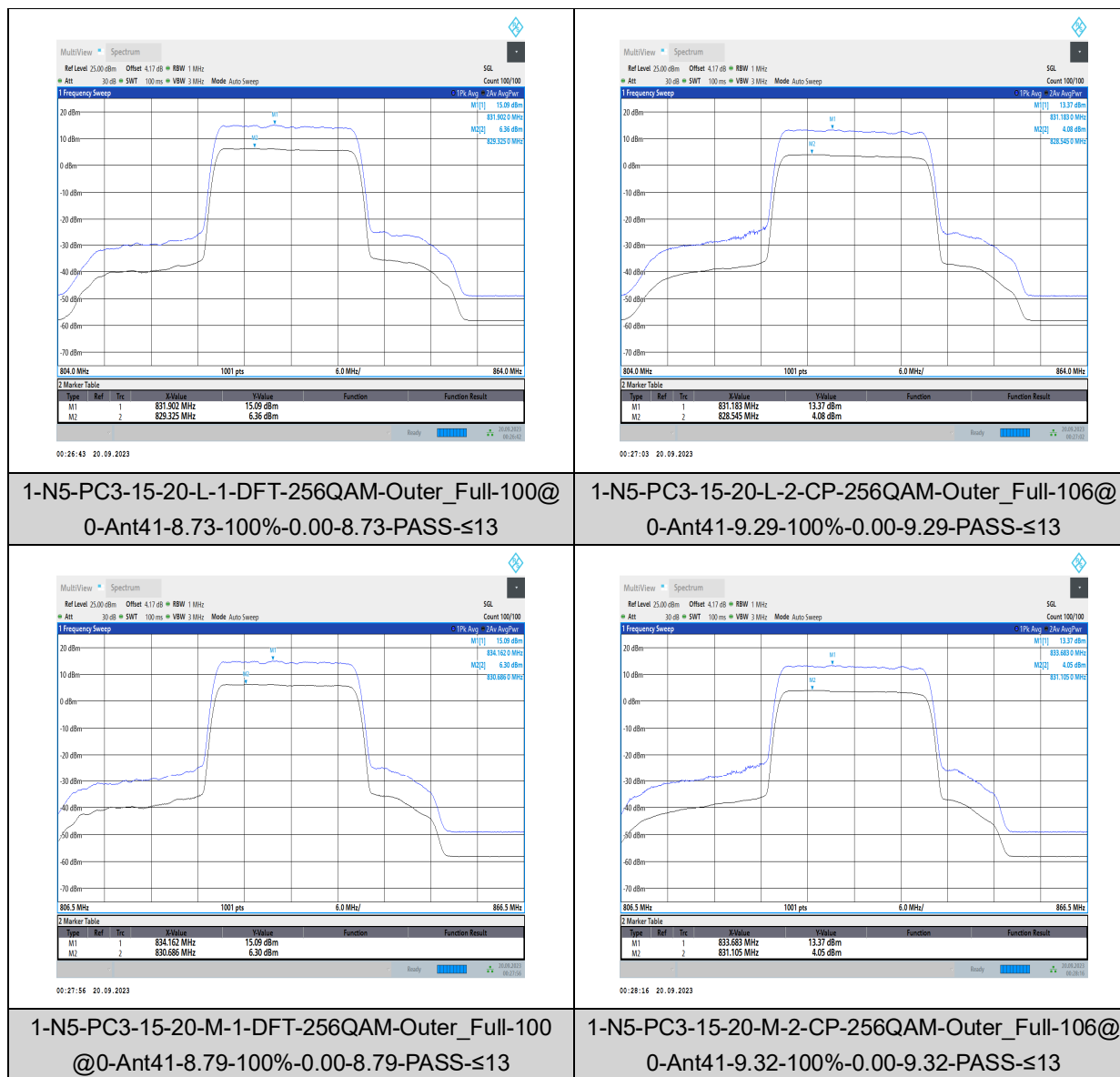
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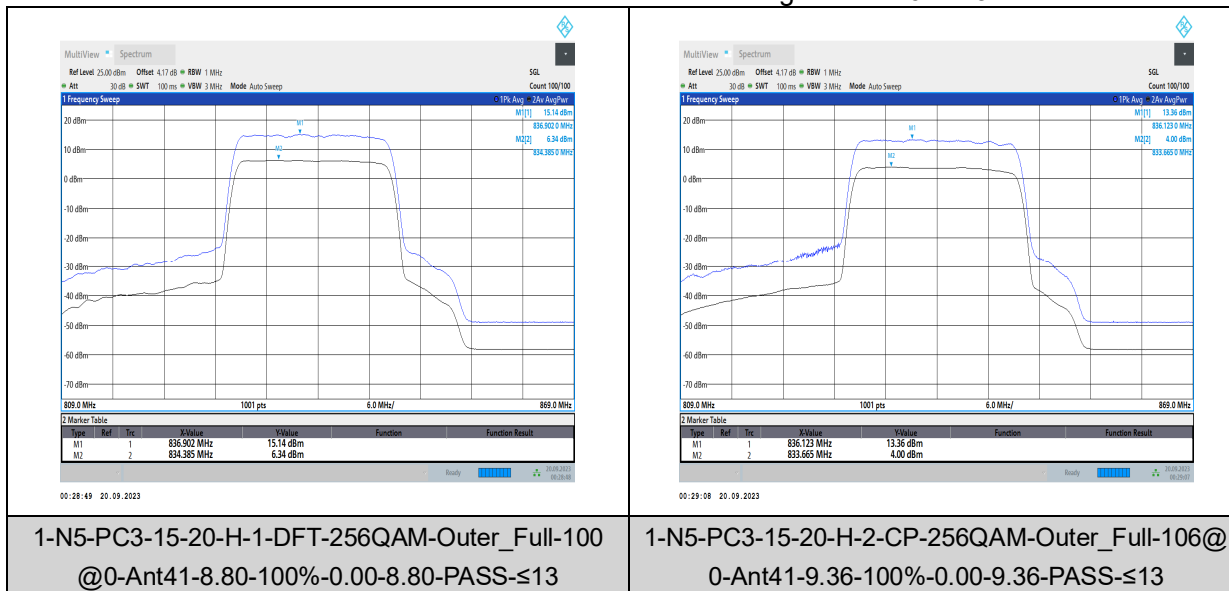
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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N5	15	5	DFT-QPSK	M	Outer_Full	4.477	4.830	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.473	4.830	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.476	4.870	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.468	4.830	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.484	4.820	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.475	4.890	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.499	4.970	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.483	4.880	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.471	4.910	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.94	9.480	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.936	9.380	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.957	9.500	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.945	9.580	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.929	9.560	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.285	9.840	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.268	9.880	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.283	9.840	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.297	9.860	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.436	14.220	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.441	14.160	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.438	14.220	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.414	14.280	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.431	14.160	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.091	14.880	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.112	14.910	PASS
N5	15	15	CP-64QAM	M	Outer_Full	14.095	14.970	PASS
N5	15	15	CP-256QAM	M	Outer_Full	14.121	14.910	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.857	18.720	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.884	18.680	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.868	18.640	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	17.854	18.680	PASS



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N5	15	20	DFT-256QAM	M	Outer_Full	17.88	18.640	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.888	19.760	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.86	19.720	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.904	19.720	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.855	19.640	PASS



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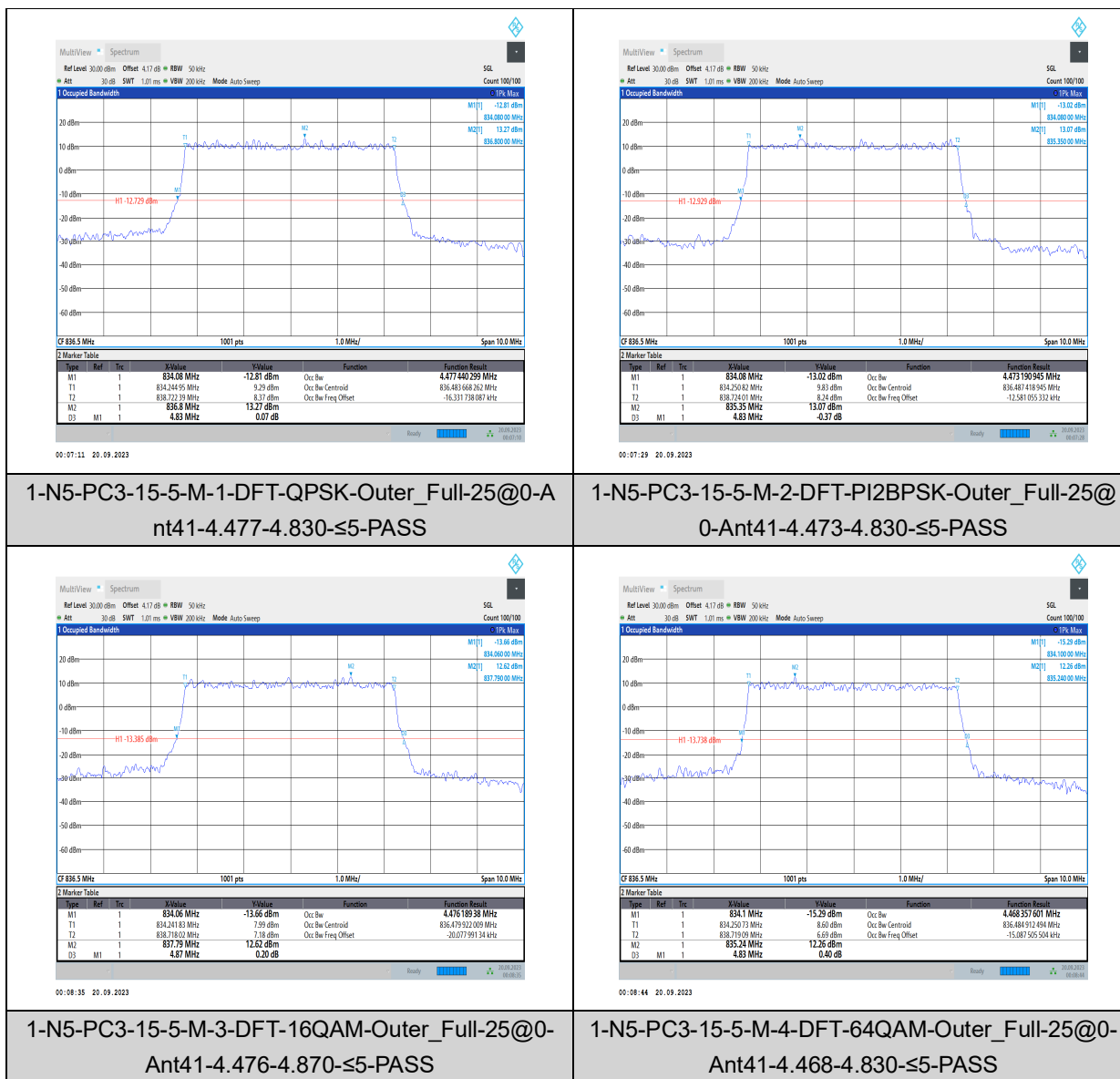
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Test Graphs



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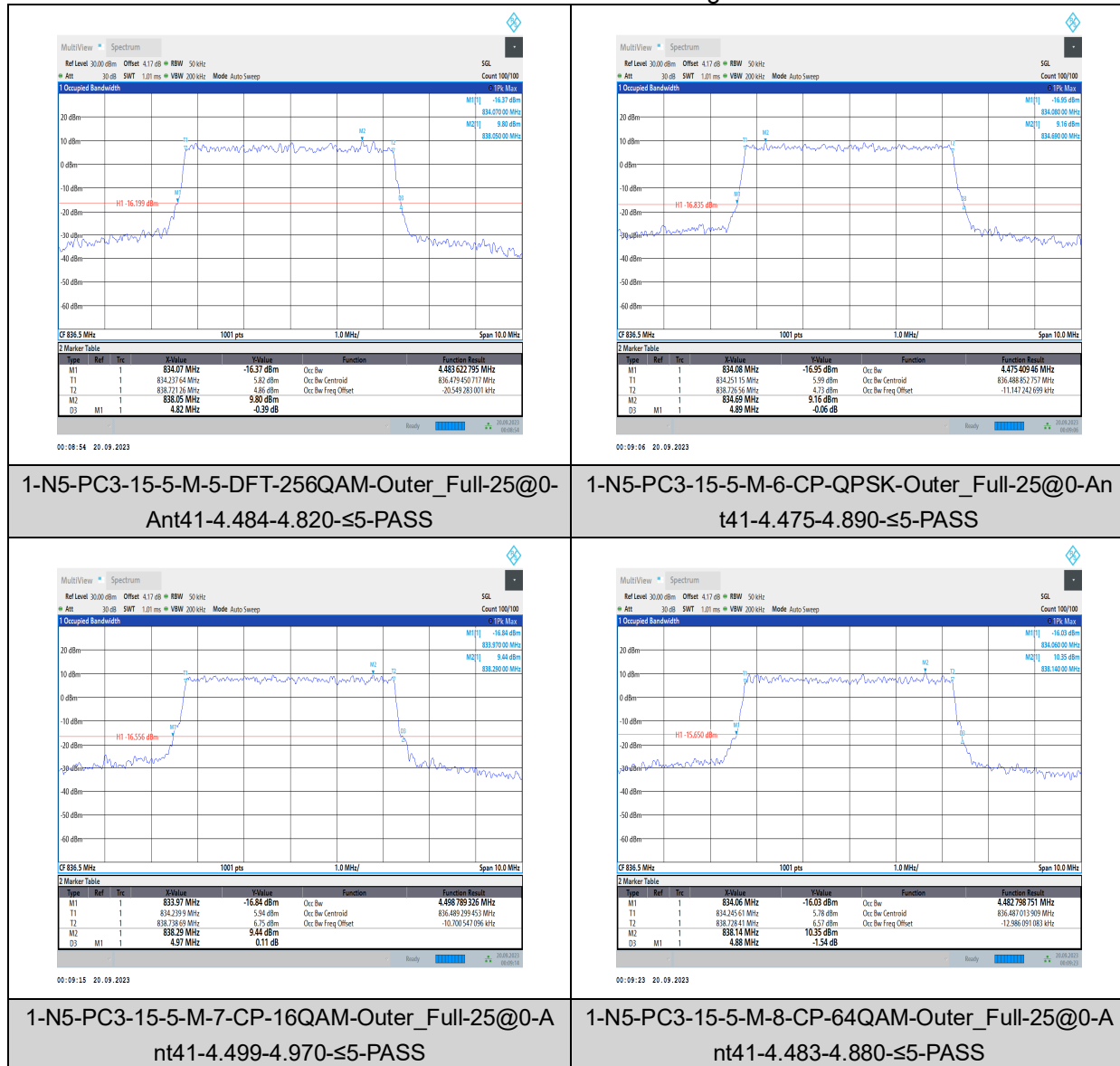
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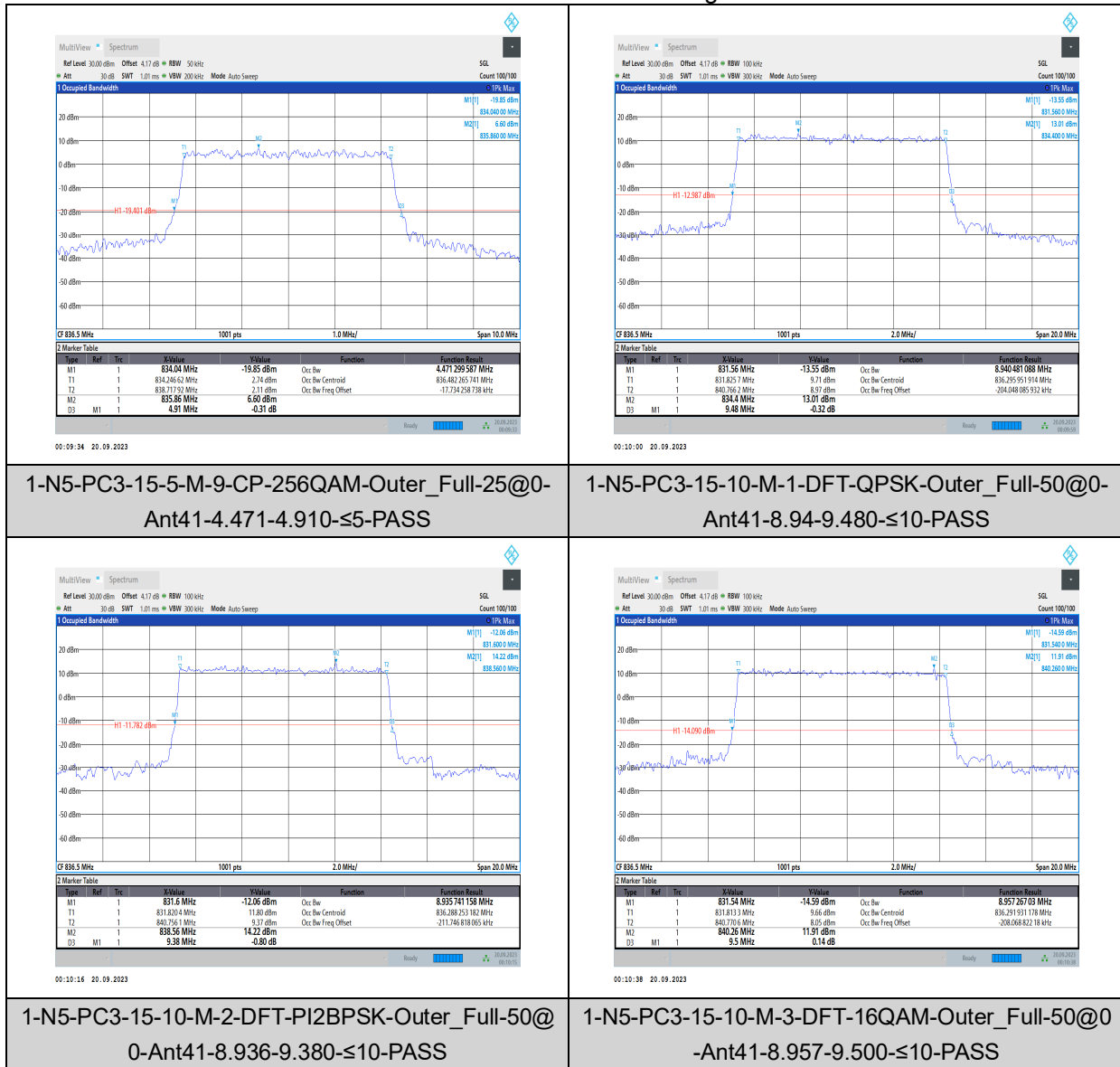
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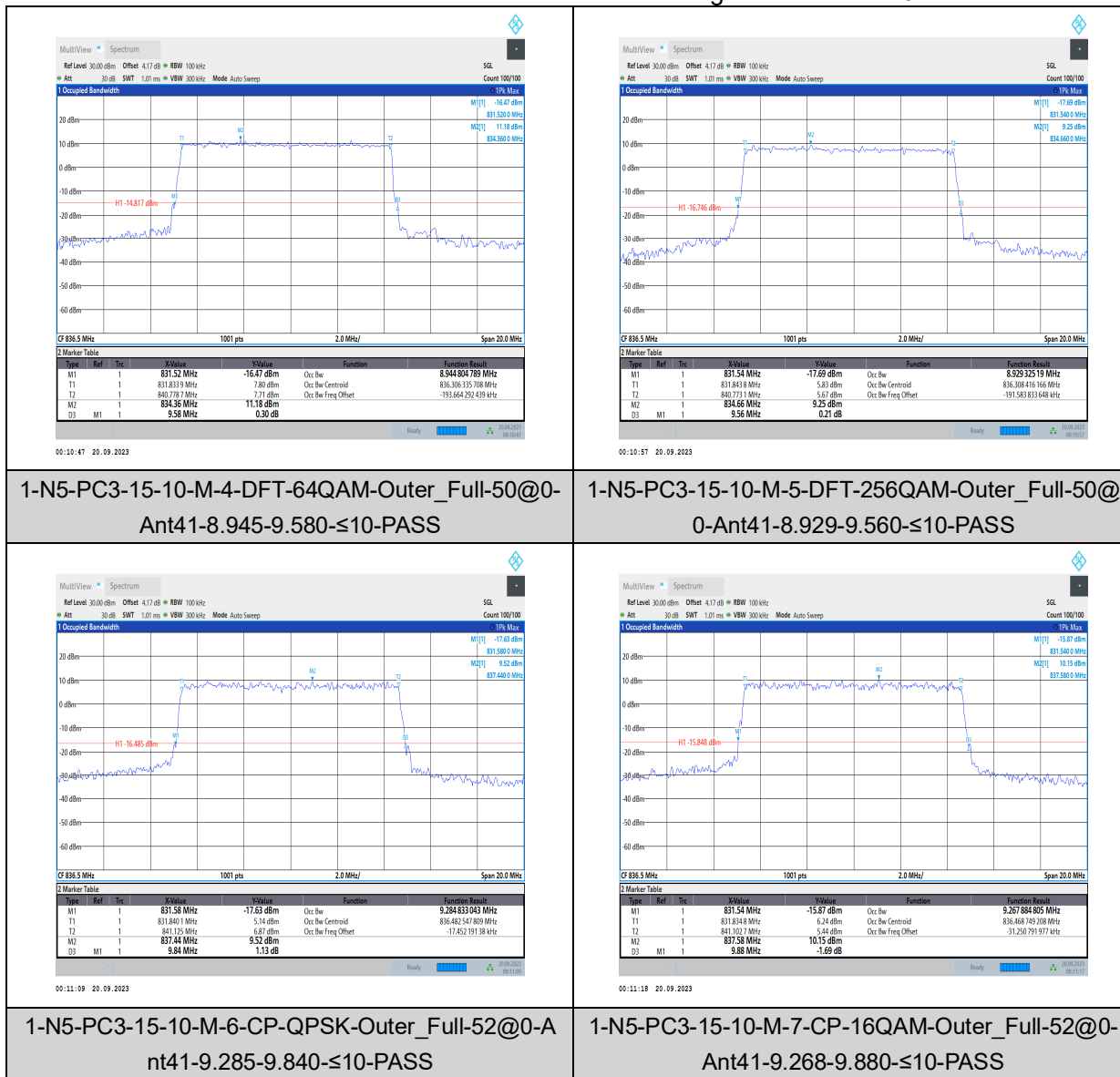
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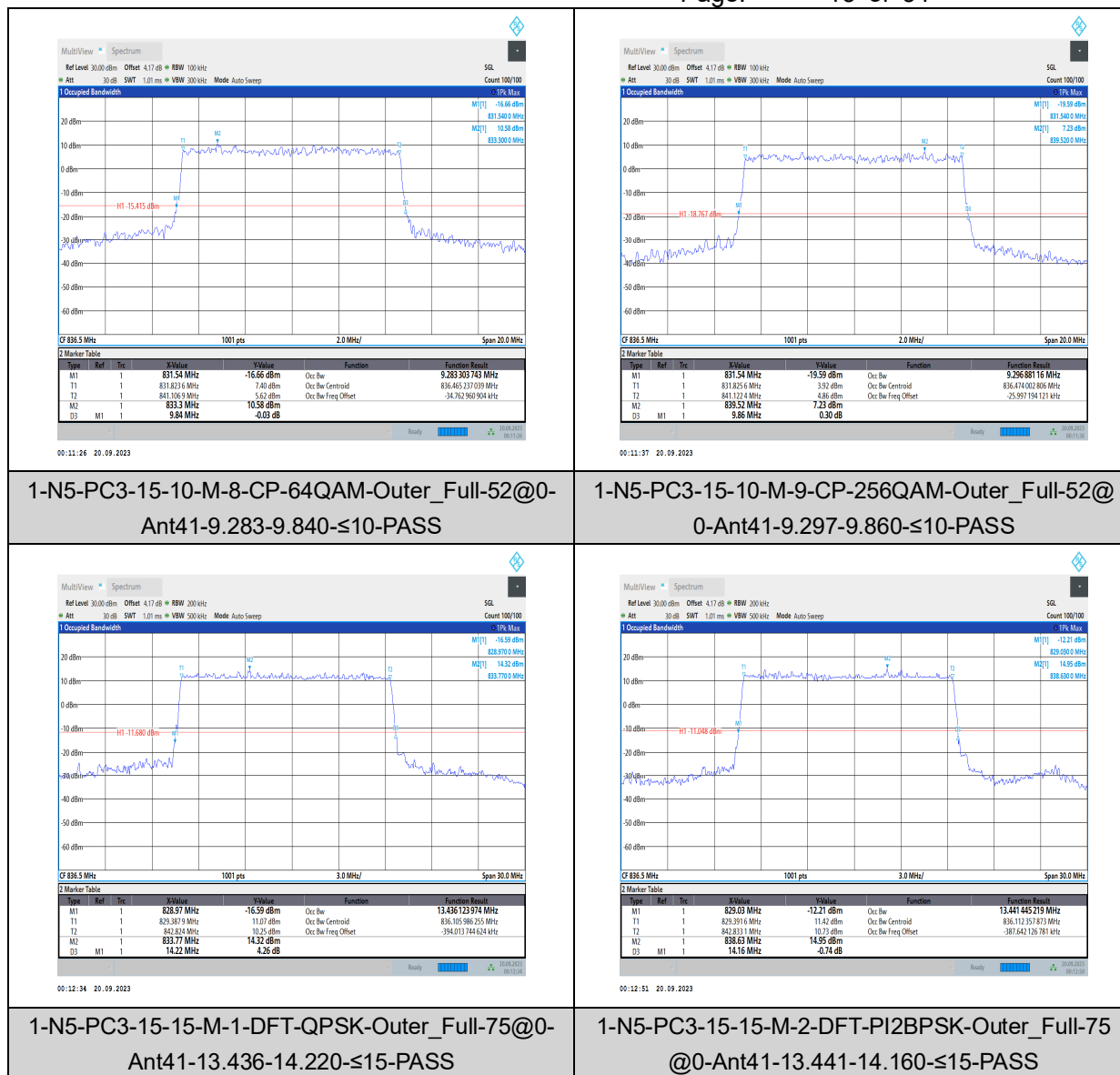
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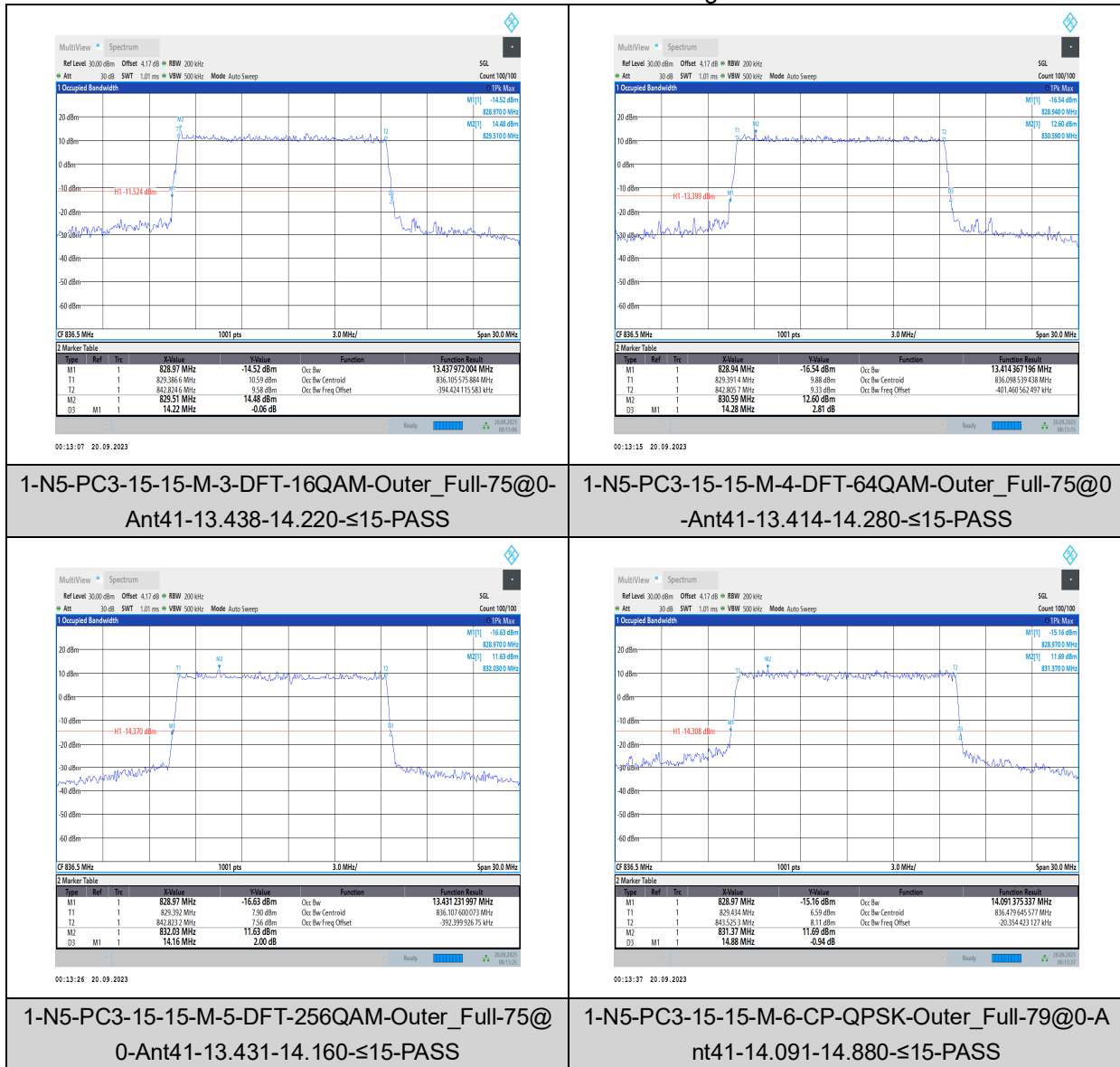
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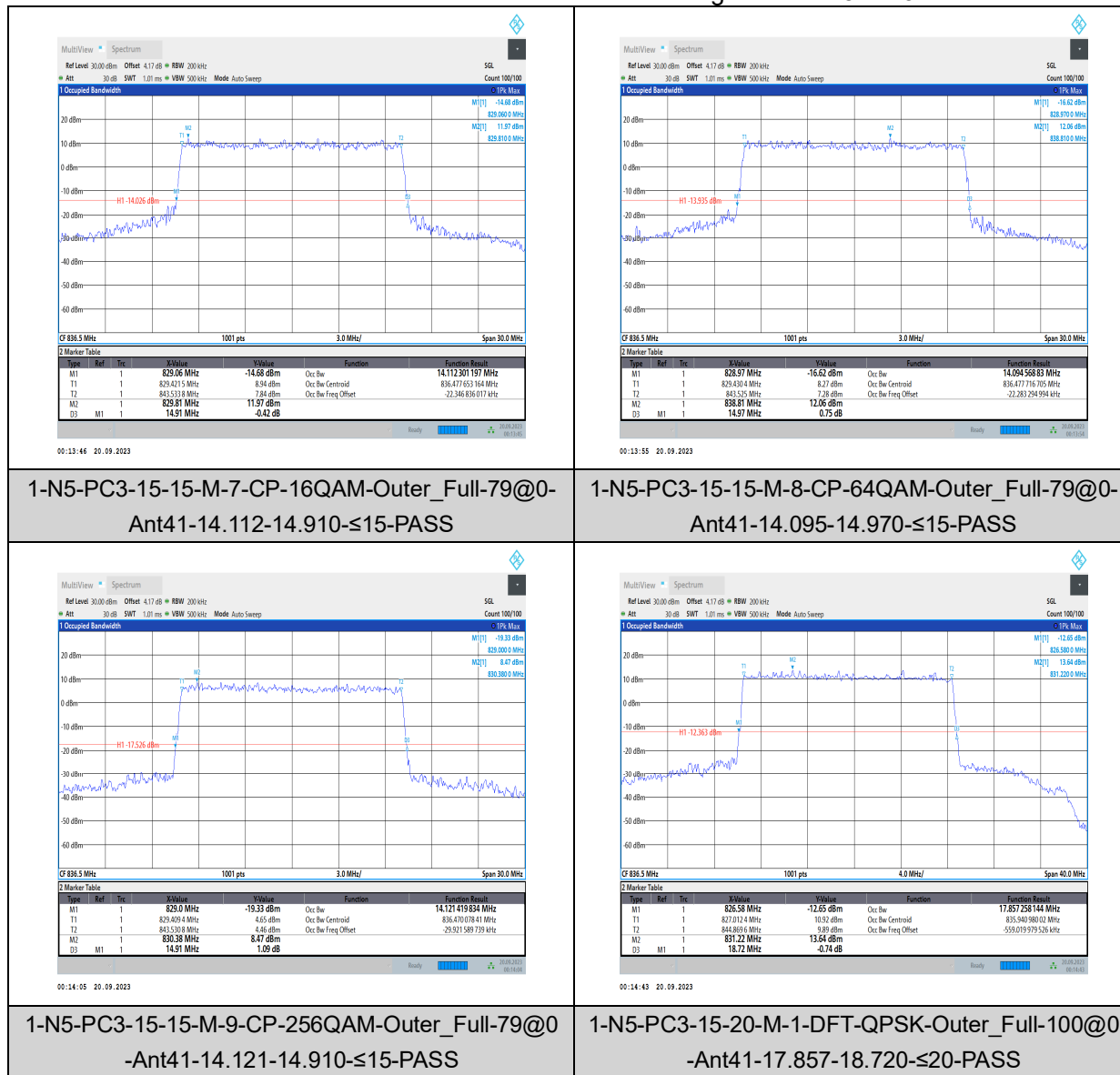
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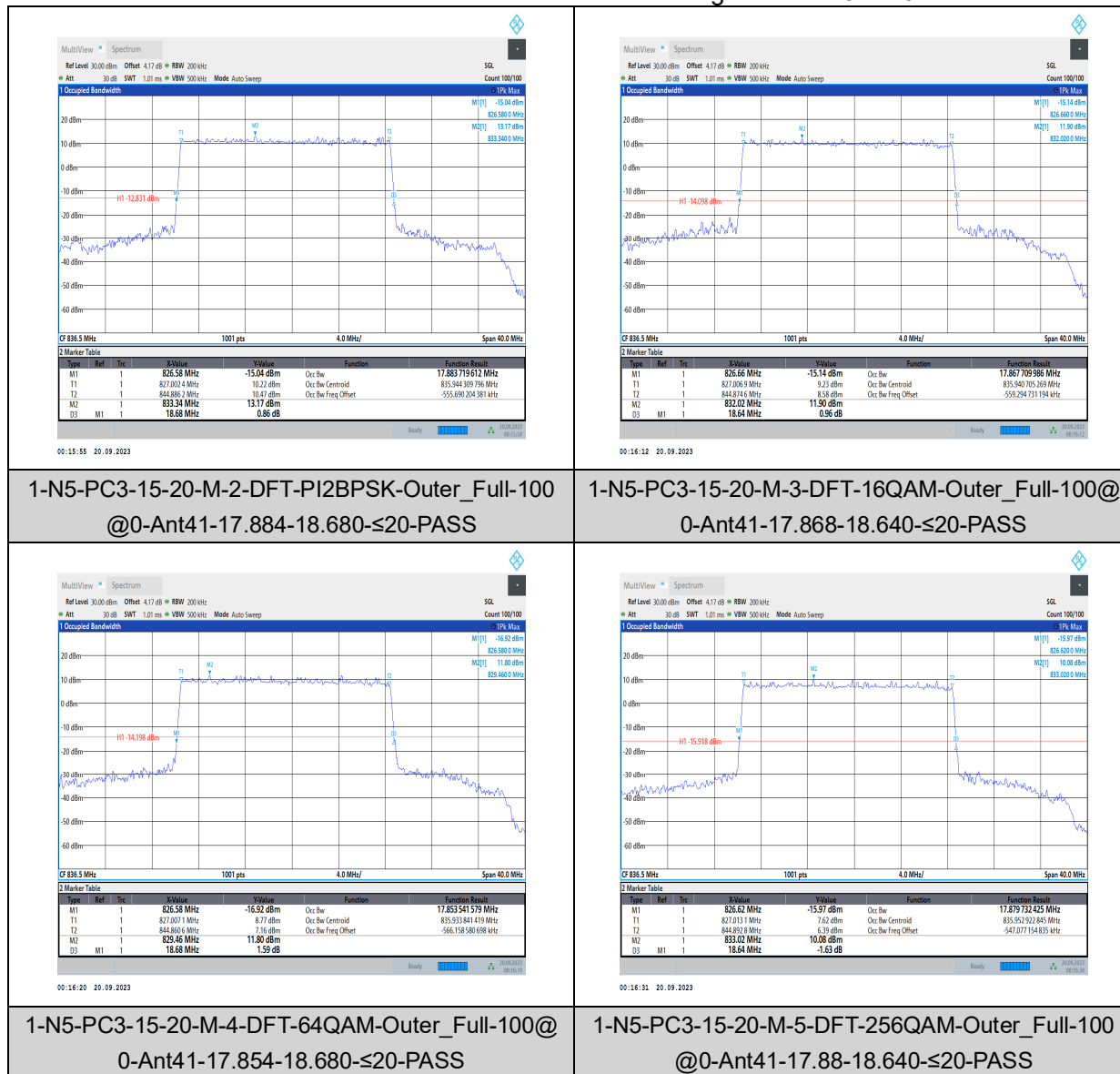
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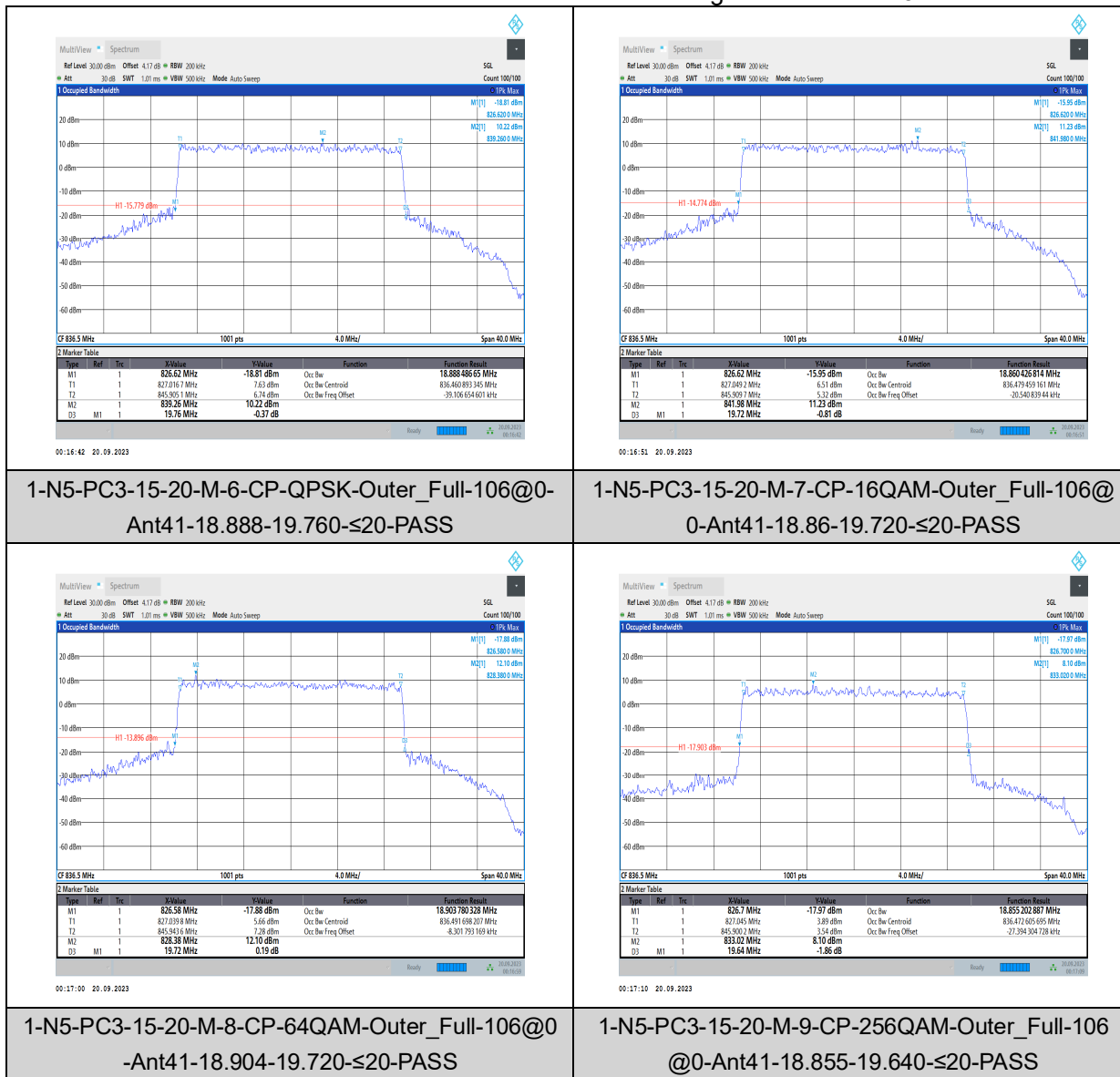
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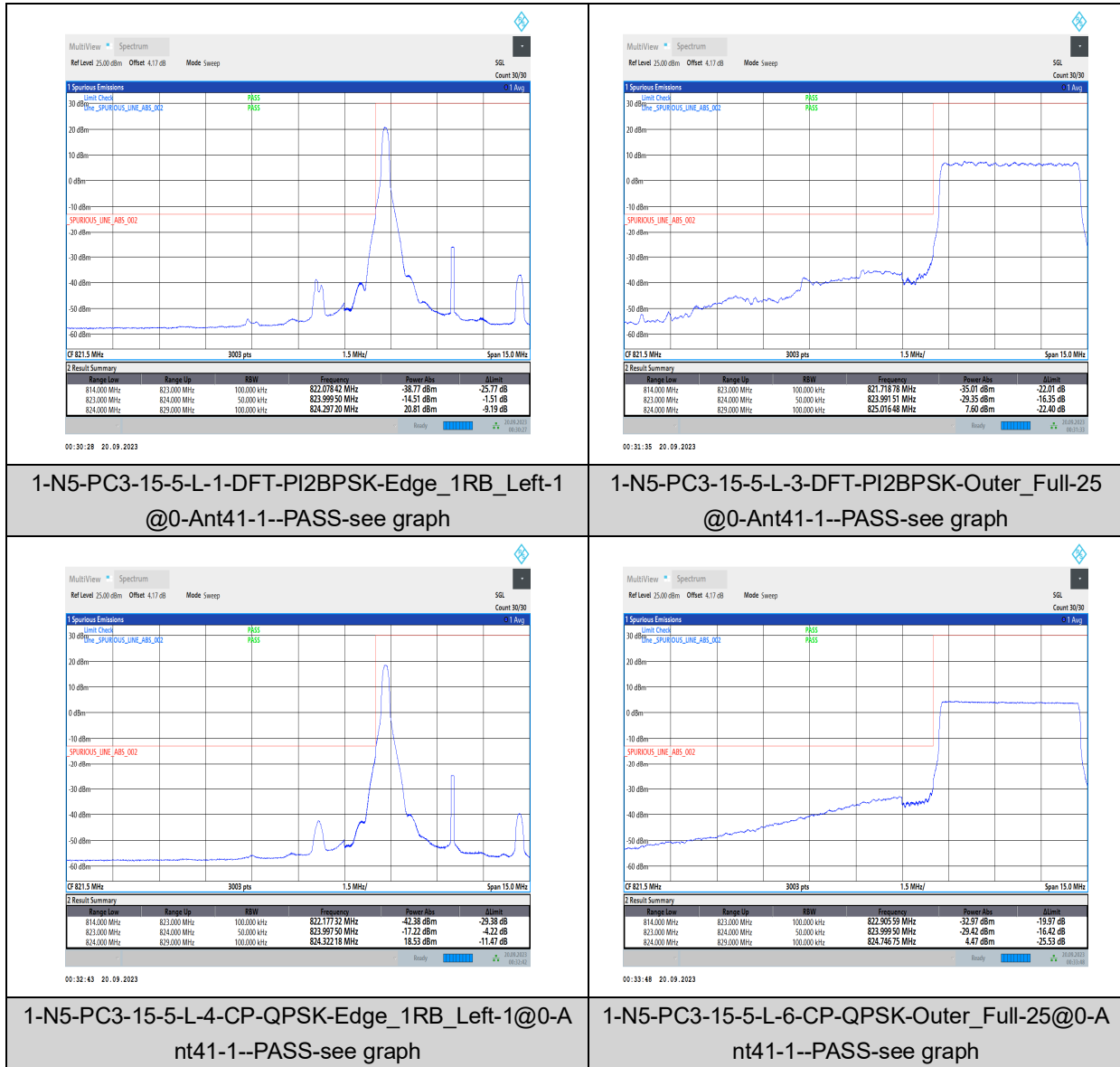
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Band Edge for SA

Test Graphs



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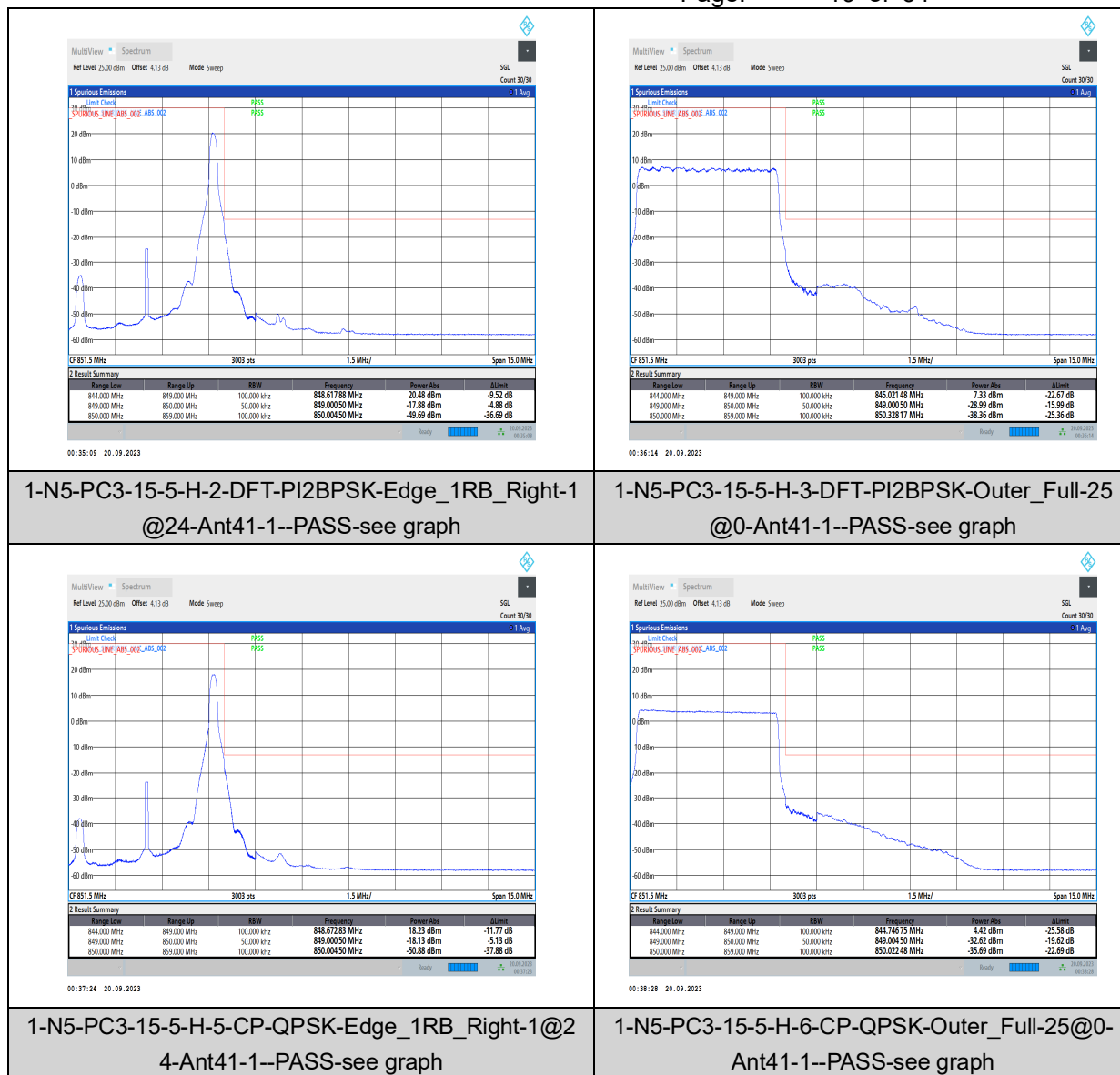
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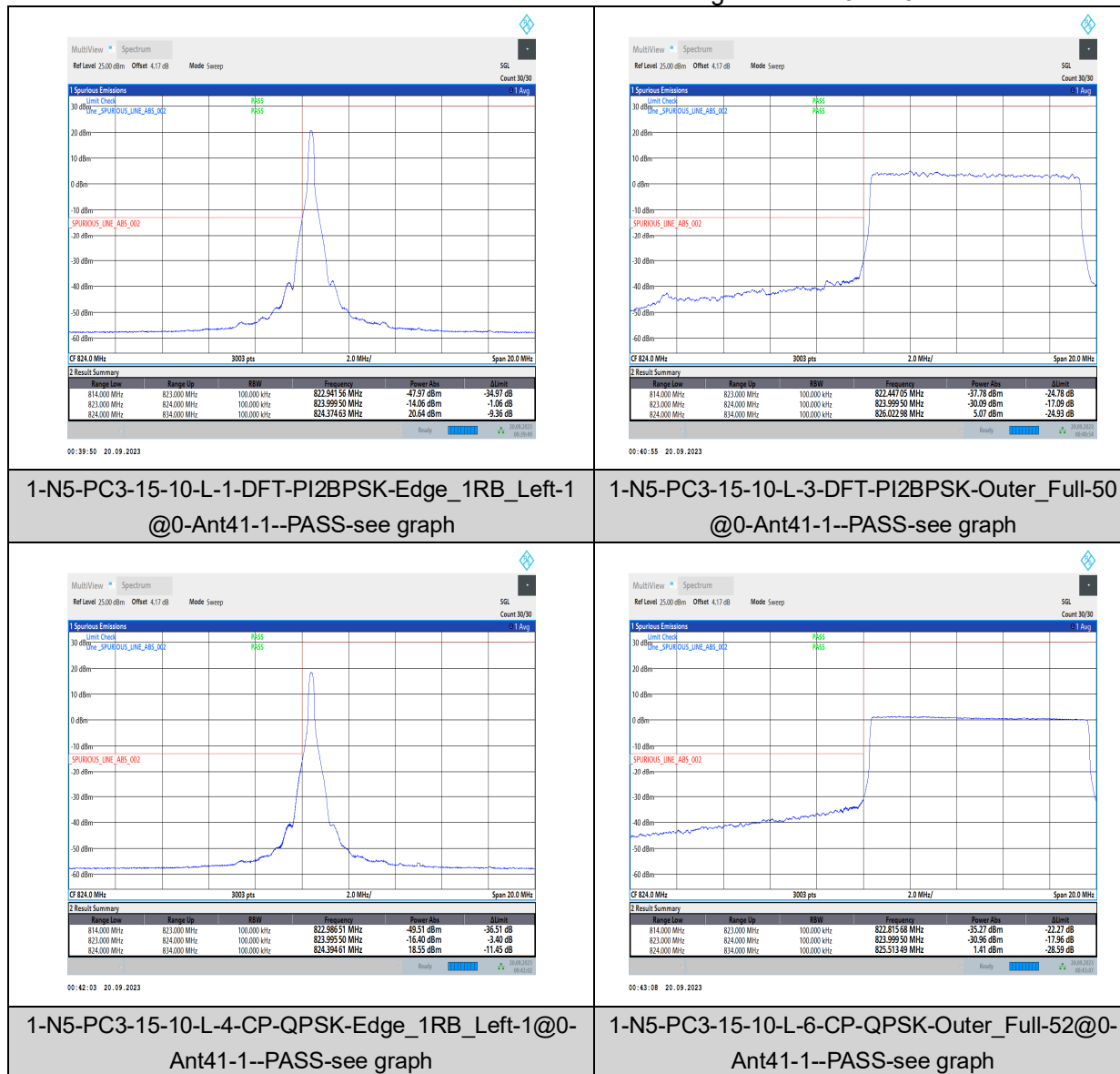
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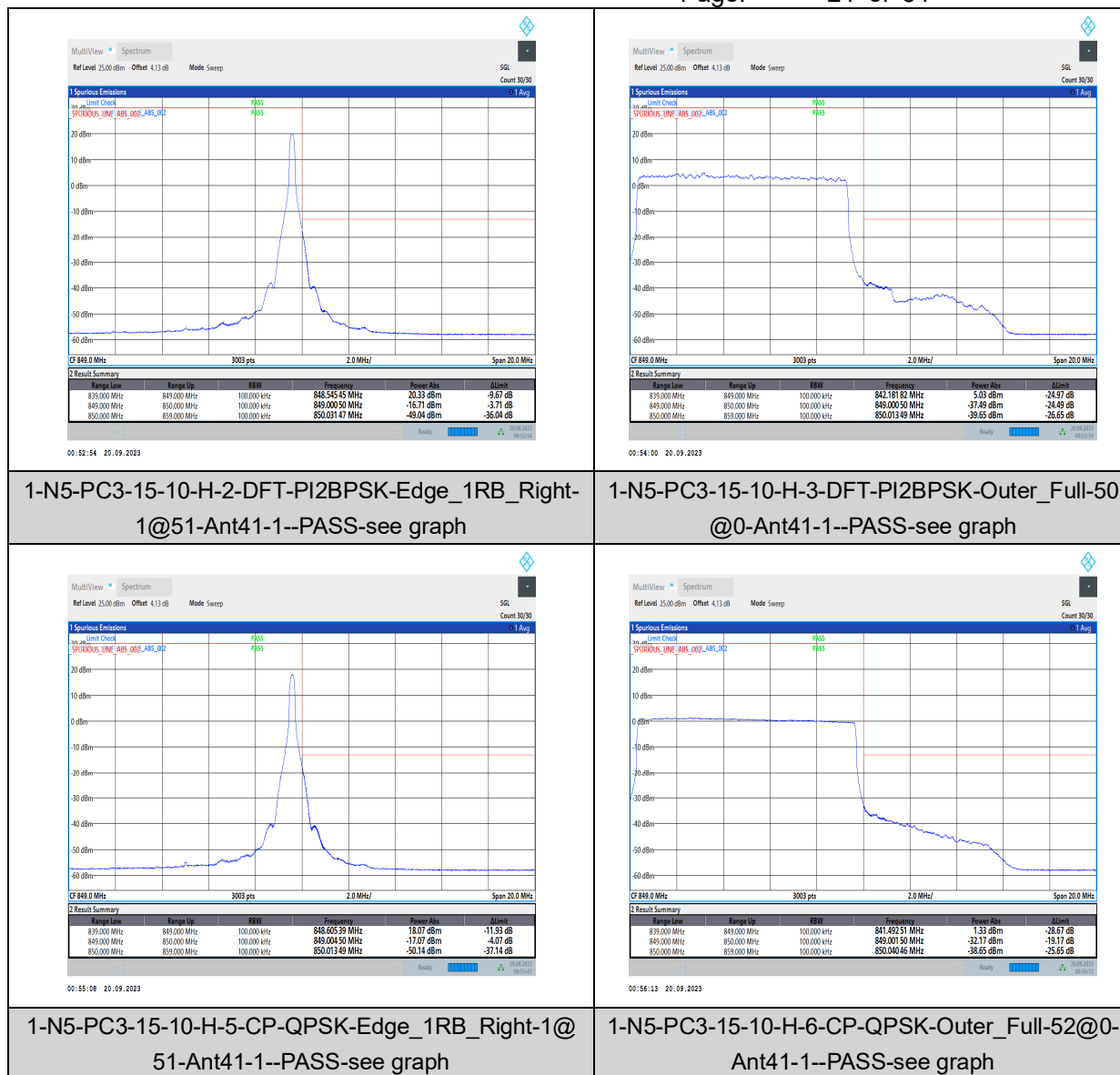
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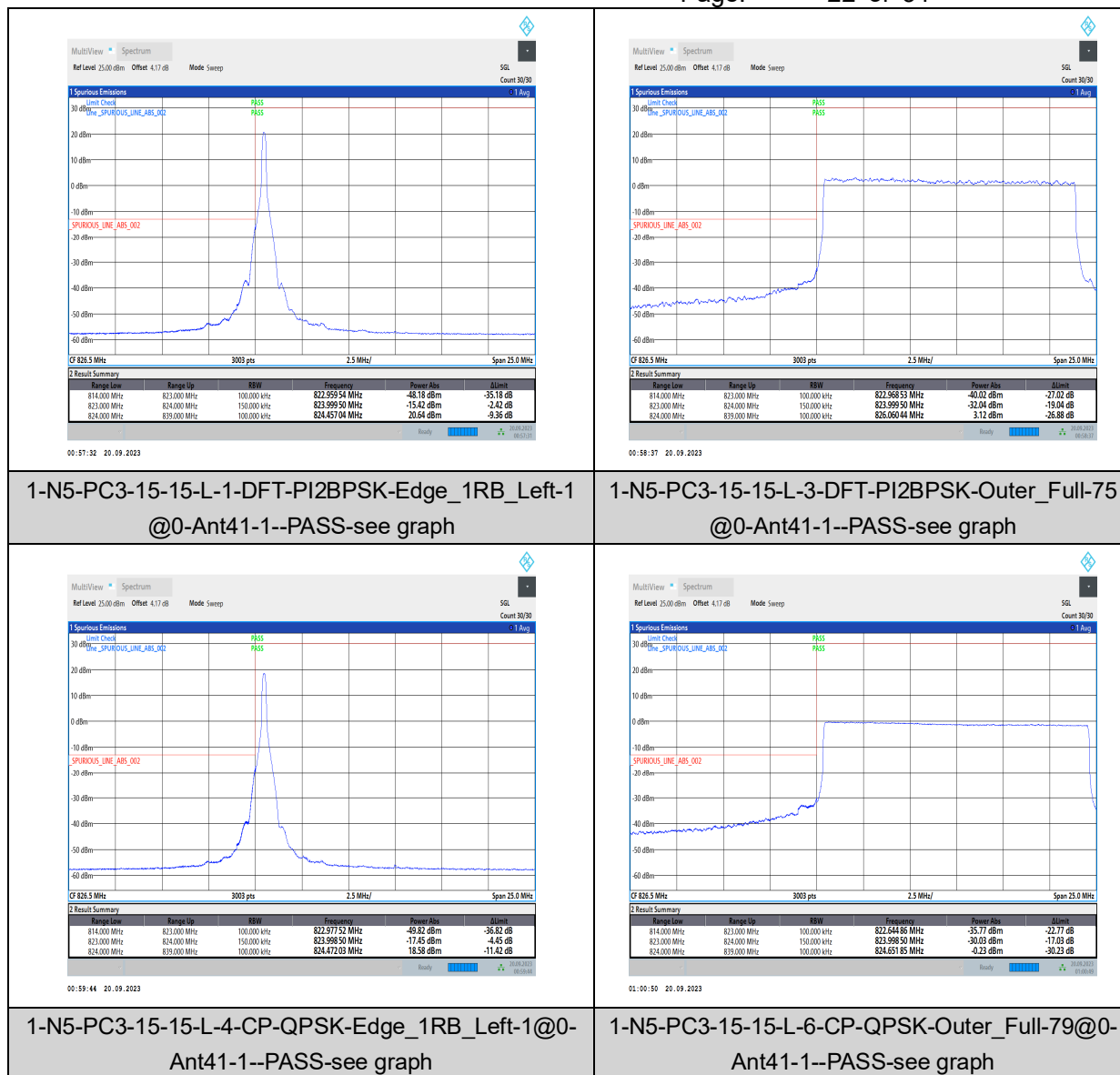
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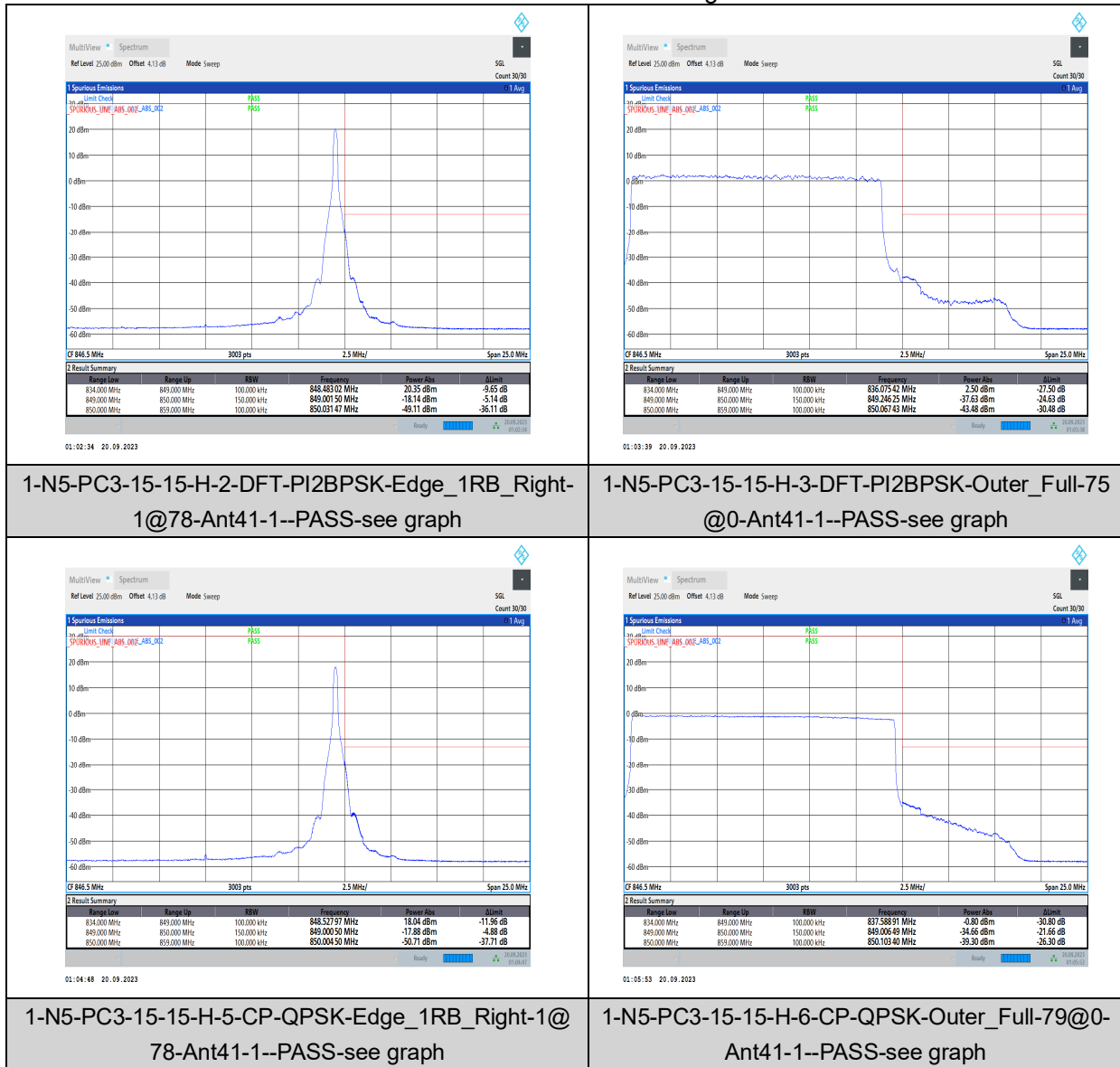
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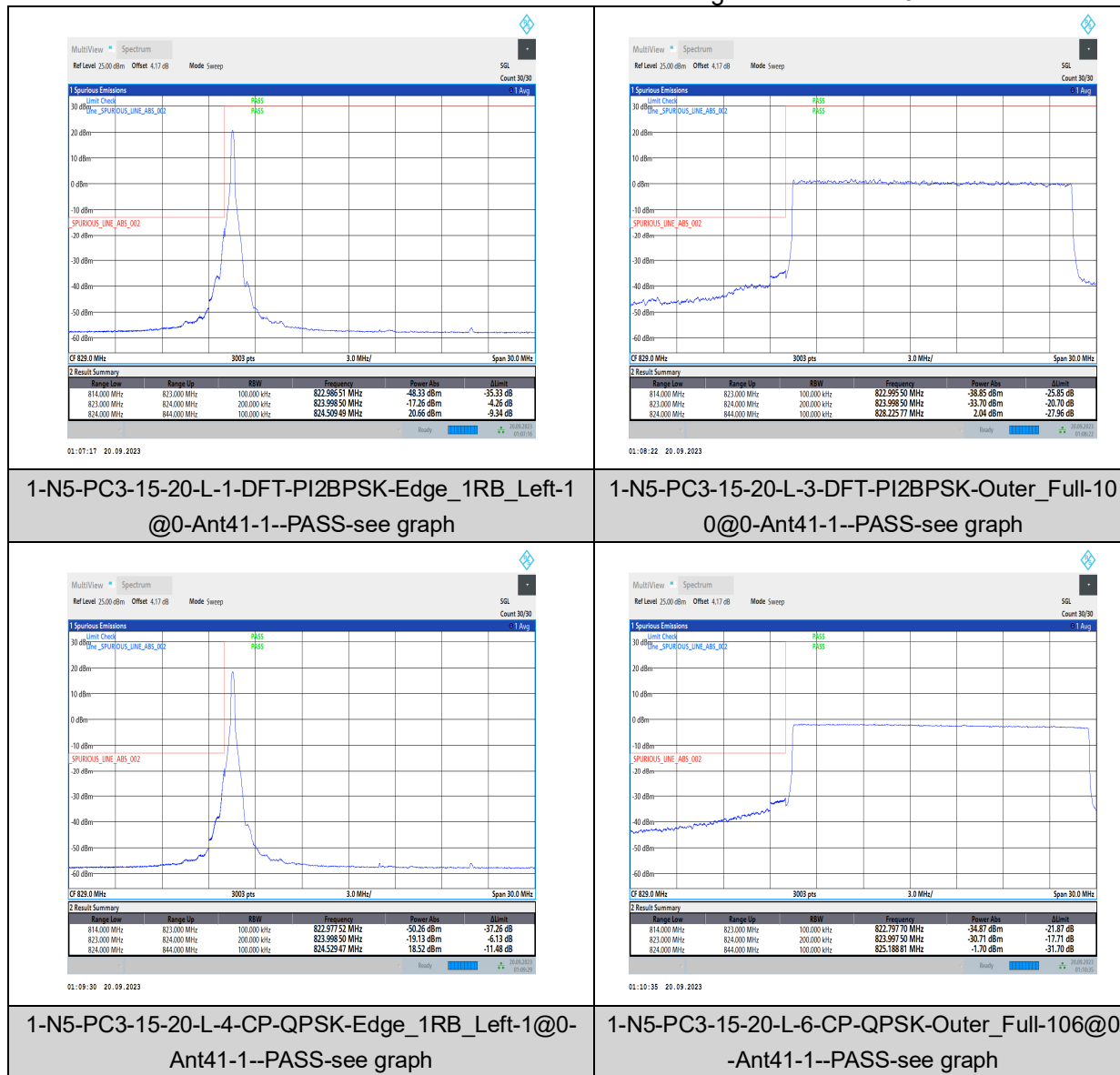
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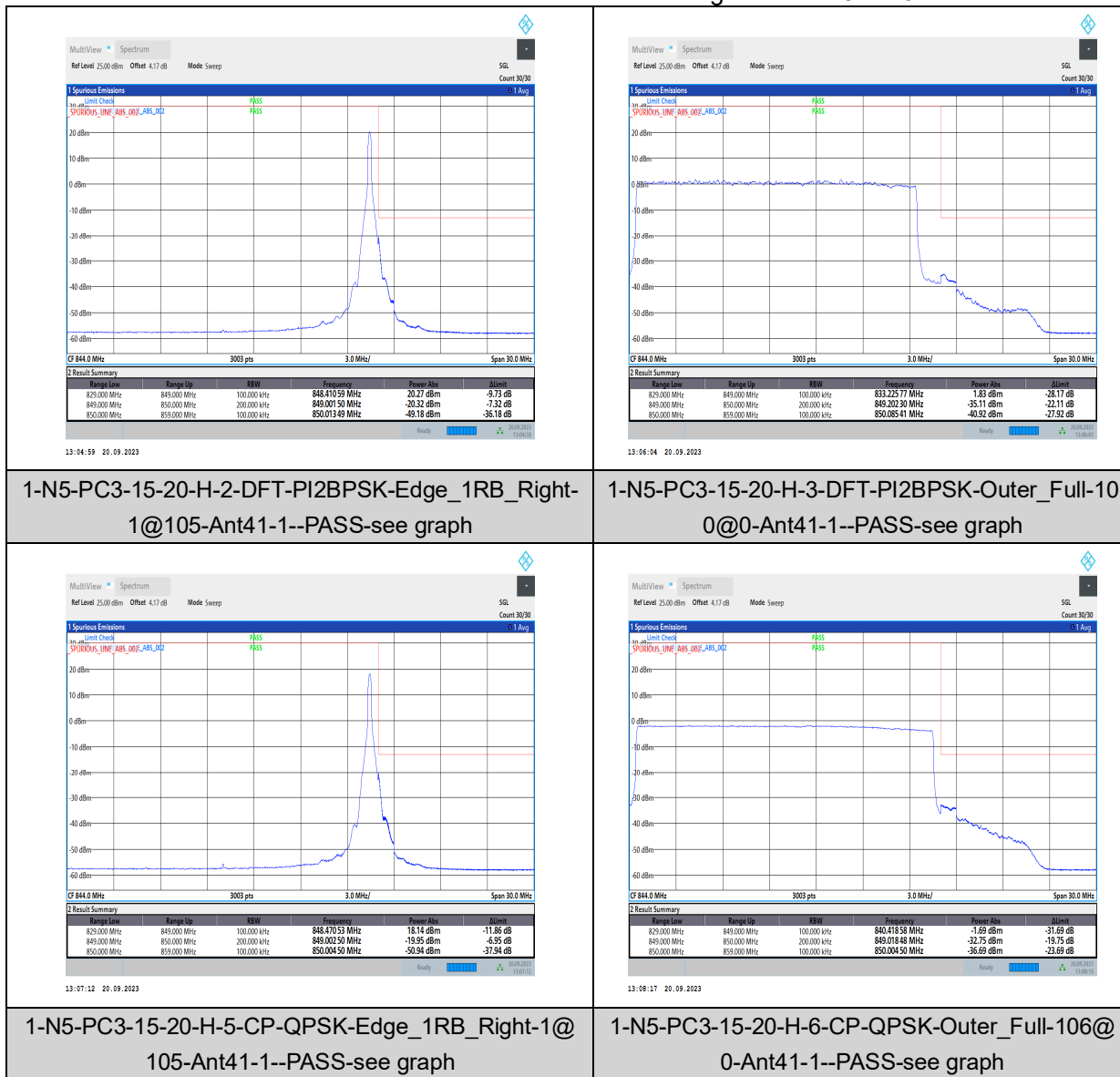
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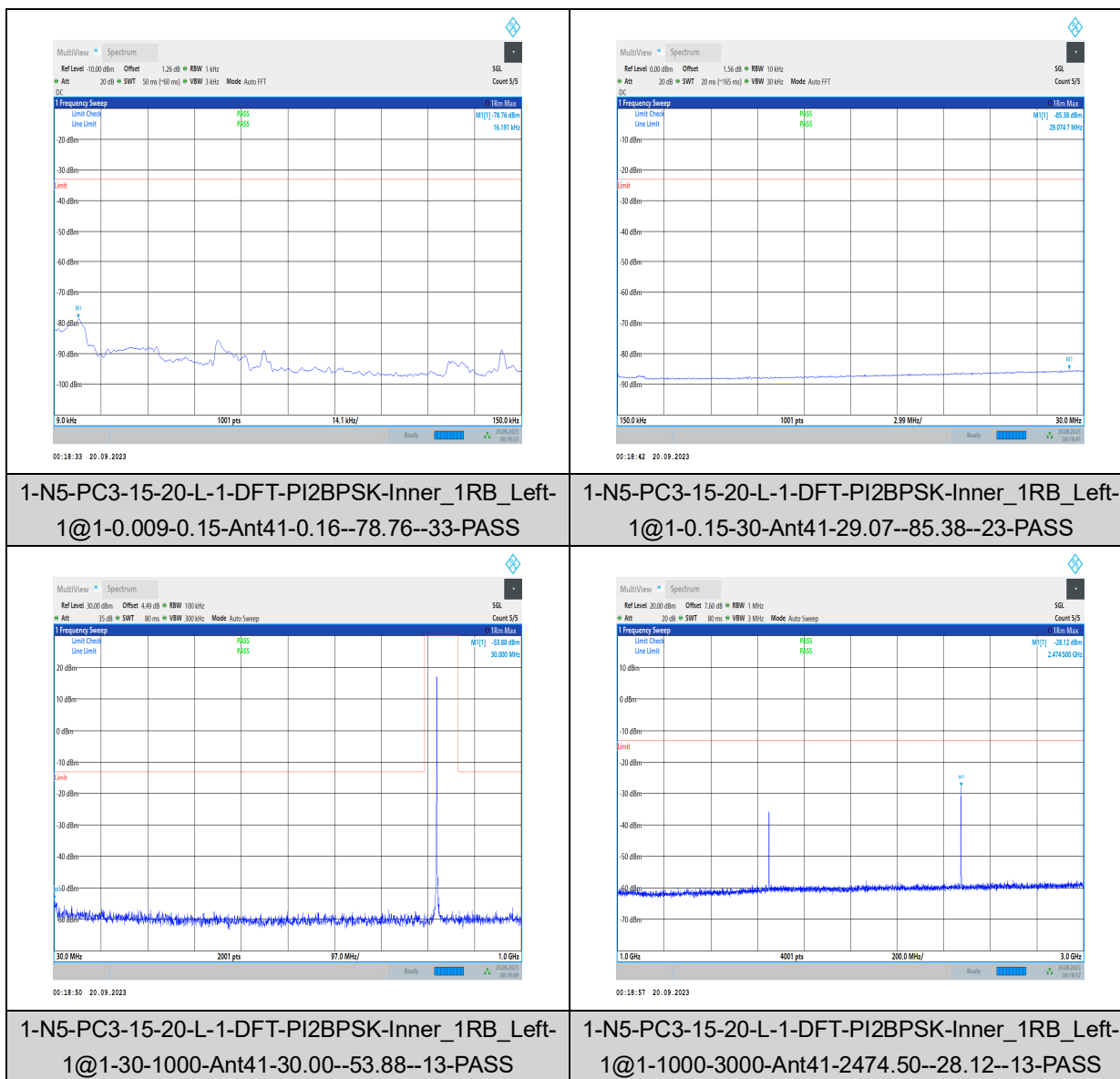
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Conducted Spurious Emission for SA

Test Graphs



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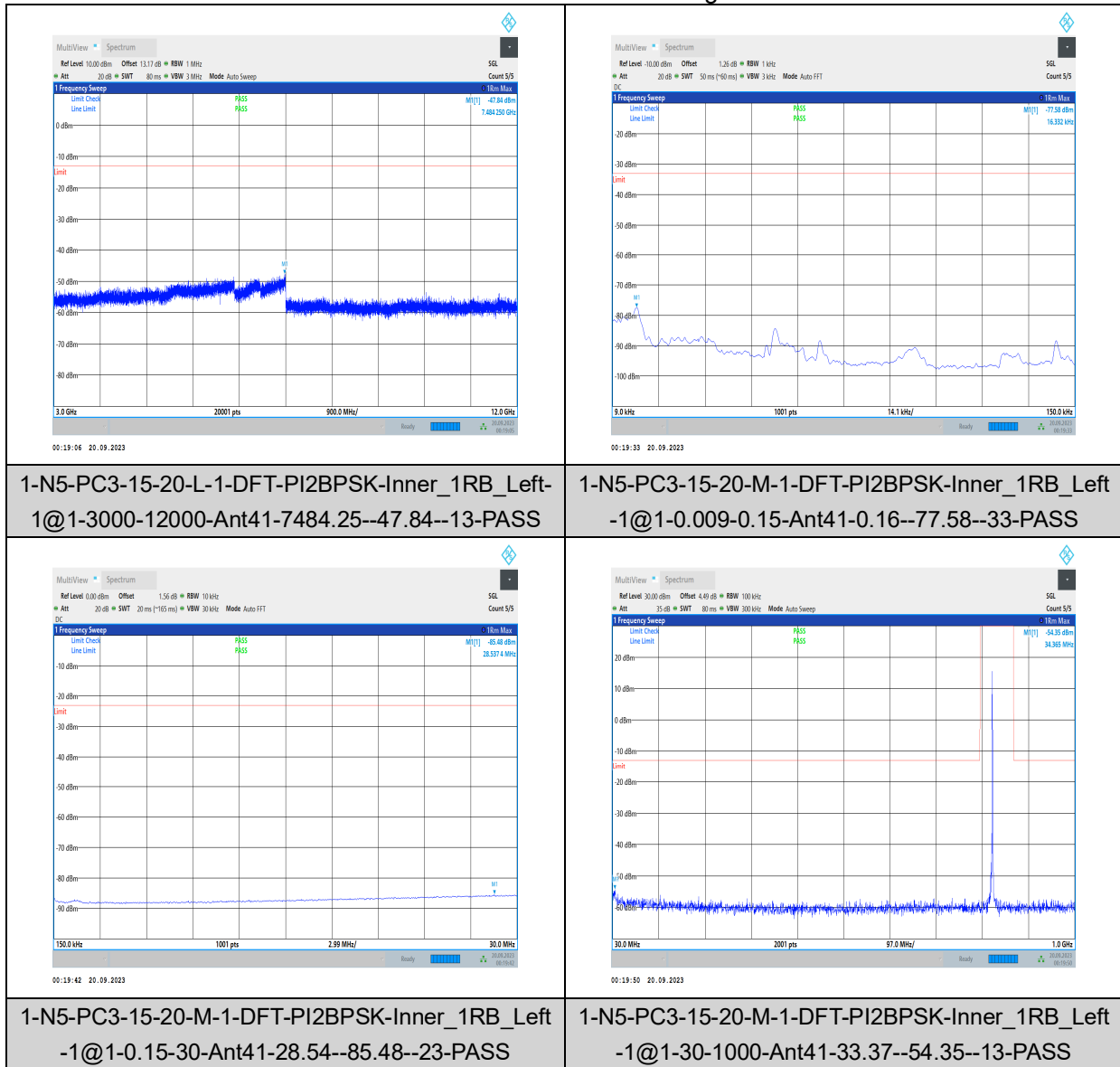
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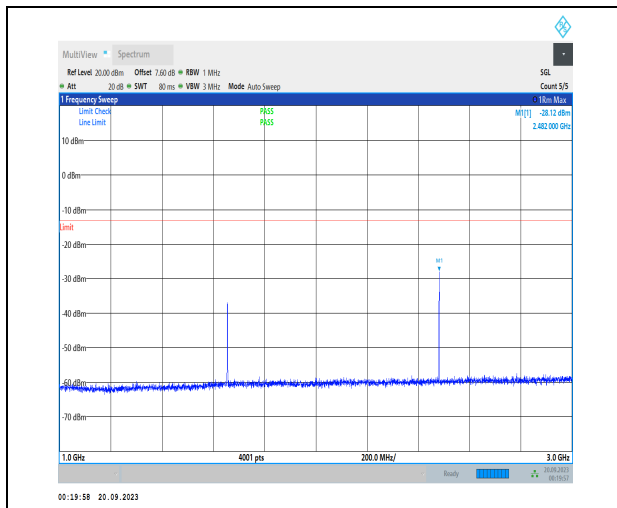
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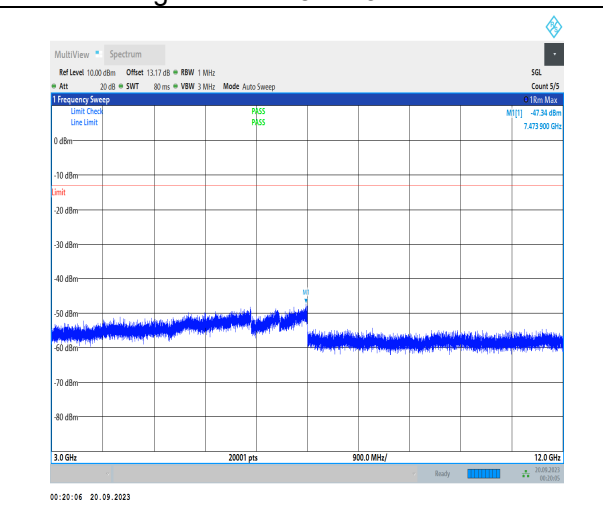
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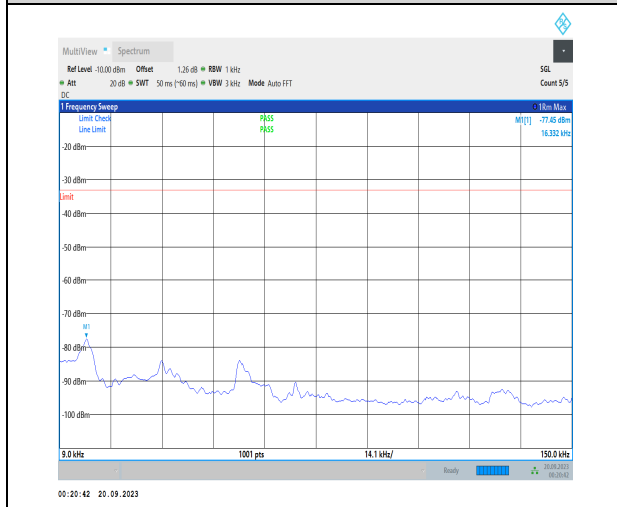
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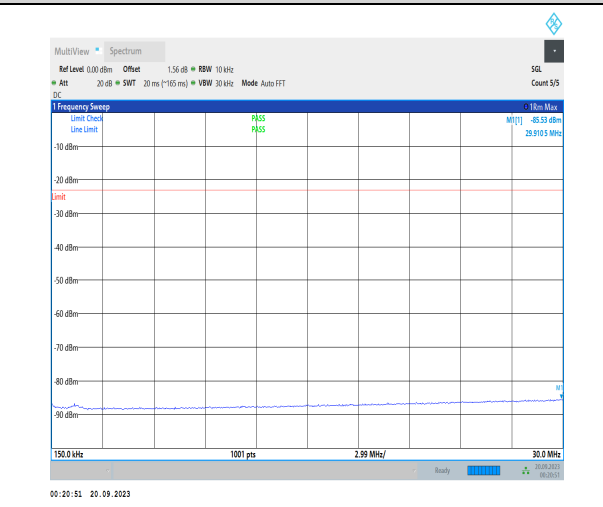
1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-1000-3000-Ant41-2482.00--28.12--13-PASS



1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-3000-12000-Ant41-7473.90--47.34--13-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-0.009-0.15-Ant41-0.16--77.45--33-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-0.15-30-Ant41-29.91--85.53--23-PASS



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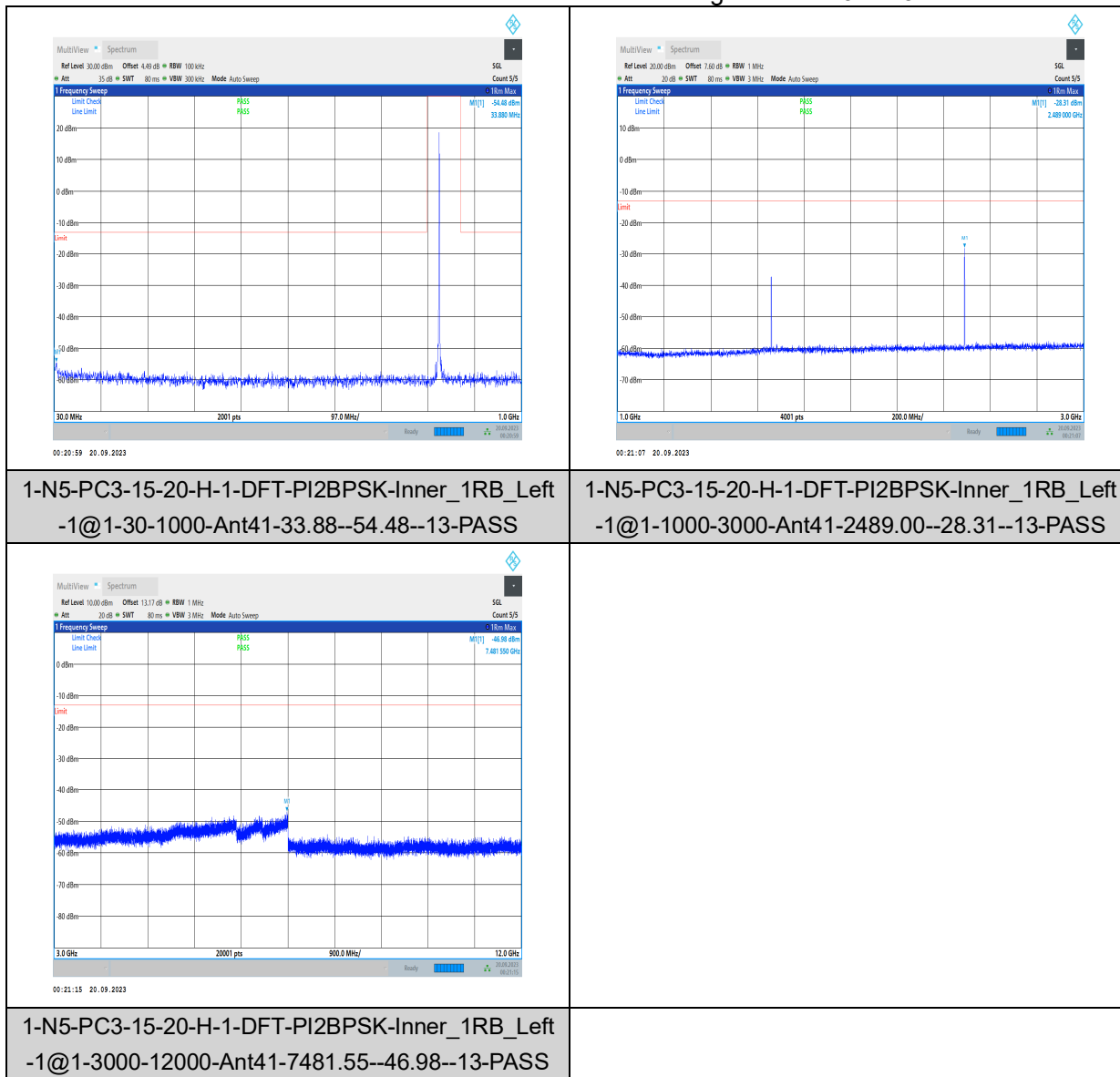
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Field Strength of Spurious Radiation**Test Band = SA Band5_ TM1****Test Channel = Low****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.1800	42.14	-48.22	25.28	-76.06	-13.00	63.06	Horizontal
2	2475.2700	41.60	-47.31	27.23	-73.74	-13.00	60.74	Horizontal
3	3300.3600	41.89	-46.68	28.48	-71.57	-13.00	58.57	Horizontal
4	4125.4500	40.56	-45.92	29.40	-71.21	-13.00	58.21	Horizontal
5	4950.5400	41.02	-45.70	31.29	-68.65	-13.00	55.65	Horizontal
6	5775.6300	39.11	-44.64	32.66	-68.13	-13.00	55.13	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.1800	42.75	-48.22	25.28	-75.45	-13.00	62.45	Vertical
2	2475.2700	42.25	-47.31	27.23	-73.09	-13.00	60.09	Vertical
3	3300.3600	42.16	-46.68	28.48	-71.30	-13.00	58.30	Vertical
4	4125.4500	40.32	-45.92	29.40	-71.45	-13.00	58.45	Vertical
5	4950.5400	40.98	-45.70	31.29	-68.69	-13.00	55.69	Vertical
6	5775.6300	38.85	-44.64	32.66	-68.39	-13.00	55.39	Vertical



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Test Band = SA Band5_ 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	1655.1800	42.45	-48.21	25.28	-75.74	-13.00	62.74	Horizontal
2	2482.7700	41.65	-47.30	27.25	-73.66	-13.00	60.66	Horizontal
3	3310.3600	41.91	-46.66	28.49	-71.53	-13.00	58.53	Horizontal
4	4137.9500	40.08	-45.92	29.43	-71.67	-13.00	58.67	Horizontal
5	4965.5400	40.71	-45.73	31.32	-68.96	-13.00	55.96	Horizontal
6	5793.1300	38.97	-44.65	32.66	-68.29	-13.00	55.29	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.1800	43.65	-48.21	25.28	-74.54	-13.00	61.54	Vertical
2	2482.7700	42.06	-47.30	27.25	-73.25	-13.00	60.25	Vertical
3	3310.3600	42.26	-46.66	28.49	-71.18	-13.00	58.18	Vertical
4	4137.9500	40.47	-45.92	29.43	-71.28	-13.00	58.28	Vertical
5	4965.5400	40.91	-45.73	31.32	-68.76	-13.00	55.76	Vertical
6	5793.1300	39.61	-44.65	32.66	-67.65	-13.00	54.65	Vertical



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Test Band = SA Band5_ TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	42.08	-48.21	25.29	-76.10	-13.00	63.10	Horizontal
2	2490.2700	41.28	-47.29	27.27	-73.99	-13.00	60.99	Horizontal
3	3320.3600	41.77	-46.65	28.49	-71.65	-13.00	58.65	Horizontal
4	4150.4500	40.71	-45.93	29.46	-71.02	-13.00	58.02	Horizontal
5	4980.5400	39.84	-45.77	31.36	-69.83	-13.00	56.83	Horizontal
6	5810.6300	39.16	-44.69	32.66	-68.13	-13.00	55.13	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.1800	43.23	-48.21	25.29	-74.95	-13.00	61.95	Vertical
2	2490.2700	41.97	-47.29	27.27	-73.30	-13.00	60.30	Vertical
3	3320.3600	42.00	-46.65	28.49	-71.42	-13.00	58.42	Vertical
4	4150.4500	40.01	-45.93	29.46	-71.72	-13.00	58.72	Vertical
5	4980.5400	40.59	-45.77	31.36	-69.08	-13.00	56.08	Vertical
6	5810.6300	39.34	-44.69	32.66	-67.95	-13.00	54.95	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) - Preamp (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	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.100000	-0.001315	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	1.900000	0.002271	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.100000	-0.000120	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	-4.600000	-0.005499	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	-2.800000	-0.003347	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	-1.400000	-0.001674	PASS



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.000000	-0.001195	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	2.900000	0.003467	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-2.400000	-0.002869	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	1.100000	0.001315	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	2.400000	0.002869	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-1.200000	-0.001435	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-1.000000	-0.001195	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	0.400000	0.000478	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-0.300000	-0.000359	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-4.500000	-0.005380	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-1.200000	-0.001435	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	-2.500000	-0.002989	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	-4.300000	-0.005140	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	-4.100000	-0.004901	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	-2.400000	-0.002869	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-2.900000	-0.003467	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	0.300000	0.000359	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	-0.200000	-0.000239	PASS

---End of Attachment---



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中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com