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Appendix B.13

NR Band n2



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

ANT2

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N2	15	5	DFT-QPSK	L	Inner_1RB_Left	24.91	22.61	33.00	PASS
N2	15	5	DFT-16QAM	L	Inner_1RB_Left	23.95	21.65	33.00	PASS
N2	15	5	DFT-QPSK	M	Inner_1RB_Left	24.97	22.67	33.00	PASS
N2	15	5	DFT-16QAM	M	Inner_1RB_Left	23.98	21.68	33.00	PASS
N2	15	5	DFT-QPSK	H	Inner_1RB_Left	24.91	22.61	33.00	PASS
N2	15	5	DFT-16QAM	H	Inner_1RB_Left	24.03	21.73	33.00	PASS
N2	15	10	DFT-QPSK	L	Inner_1RB_Left	24.88	22.58	33.00	PASS
N2	15	10	DFT-16QAM	L	Inner_1RB_Left	23.87	21.57	33.00	PASS
N2	15	10	DFT-QPSK	M	Inner_1RB_Left	24.91	22.61	33.00	PASS
N2	15	10	DFT-16QAM	M	Inner_1RB_Left	23.94	21.64	33.00	PASS
N2	15	10	DFT-QPSK	H	Inner_1RB_Left	24.91	22.61	33.00	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Left	23.99	21.69	33.00	PASS
N2	15	15	DFT-QPSK	L	Inner_1RB_Left	25.07	22.77	33.00	PASS
N2	15	15	DFT-16QAM	L	Inner_1RB_Left	24.07	21.77	33.00	PASS
N2	15	15	DFT-QPSK	M	Inner_1RB_Left	25.11	22.81	33.00	PASS
N2	15	15	DFT-16QAM	M	Inner_1RB_Left	24.05	21.75	33.00	PASS
N2	15	15	DFT-QPSK	H	Inner_1RB_Left	25.05	22.75	33.00	PASS
N2	15	15	DFT-16QAM	H	Inner_1RB_Left	24.14	21.84	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	25.00	22.70	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	25.12	22.82	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Outer_Full	24.54	22.24	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Left	24.29	21.99	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Right	24.92	22.62	33.00	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	24.01	21.71	33.00	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Left	23.81	21.51	33.00	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Right	24.01	21.71	33.00	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	23.02	20.72	33.00	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Left	22.60	20.30	33.00	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Right	22.63	20.33	33.00	PASS
N2	15	20	DFT-64QAM	L	Outer_Full	22.59	20.29	33.00	PASS
N2	15	20	DFT-256QAM	L	Inner_1RB_Left	19.77	17.47	33.00	PASS



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N2	15	20	DFT-256QAM	L	Inner_1RB_Right	19.89	17.59	33.00	PASS
N2	15	20	DFT-256QAM	L	Outer_Full	20.53	18.23	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	24.90	22.60	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.84	22.54	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	24.35	22.05	33.00	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Left	24.87	22.57	33.00	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Right	24.74	22.44	33.00	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	23.86	21.56	33.00	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Left	23.96	21.66	33.00	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Right	23.88	21.58	33.00	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	22.88	20.58	33.00	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Left	22.54	20.24	33.00	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Right	22.48	20.18	33.00	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	22.44	20.14	33.00	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Left	19.88	17.58	33.00	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Right	19.78	17.48	33.00	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	20.43	18.13	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	24.76	22.46	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.85	22.55	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Outer_Full	24.24	21.94	33.00	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Left	24.76	22.46	33.00	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Right	24.16	21.86	33.00	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	23.78	21.48	33.00	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Left	23.85	21.55	33.00	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Right	23.79	21.49	33.00	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	22.75	20.45	33.00	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Left	22.41	20.11	33.00	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Right	22.41	20.11	33.00	PASS
N2	15	20	DFT-64QAM	H	Outer_Full	22.33	20.03	33.00	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Left	19.79	17.49	33.00	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Right	19.69	17.39	33.00	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	20.29	17.99	33.00	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N2	15	20	DFT-256QAM	L	Outer_Full	6.39	≤13	PASS
N2	15	20	CP-256QAM	L	Outer_Full	6.36	≤13	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	6.37	≤13	PASS
N2	15	20	CP-256QAM	M	Outer_Full	6.36	≤13	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	6.36	≤13	PASS
N2	15	20	CP-256QAM	H	Outer_Full	6.37	≤13	PASS



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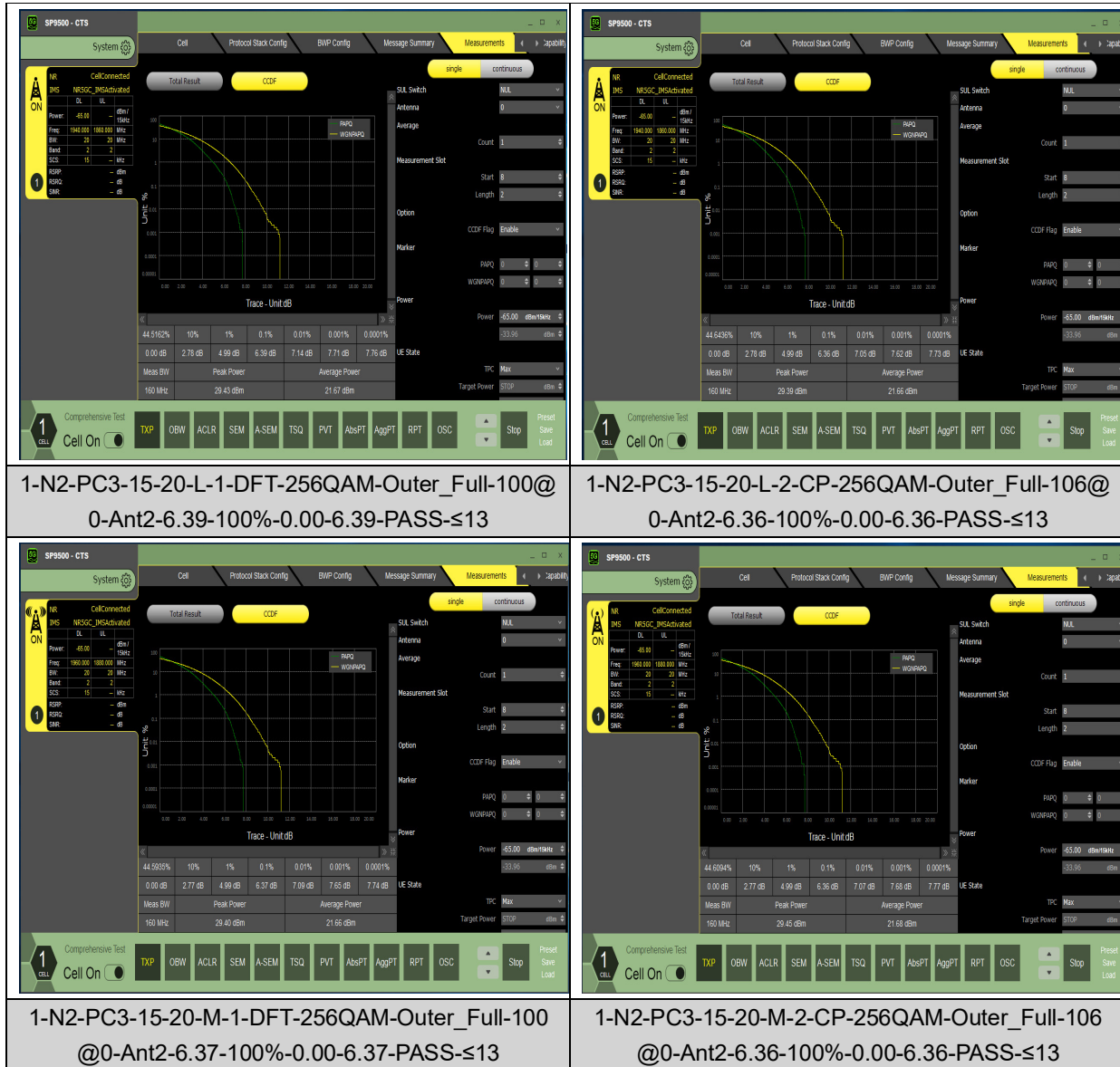
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Test Graphs



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1-N2-PC3-15-20-H-1-DFT-256QAM-Outer_Full-100
@0-Ant2-6.36-100%-0.00-6.36-PASS≤13

1-N2-PC3-15-20-H-2-CP-256QAM-Outer_Full-106@
0-Ant2-6.37-100%-0.00-6.37-PASS≤13



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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
N2	15	5	DFT-QPSK	M	Outer_Full	4.476	4.890	PASS
N2	15	5	DFT-PI2BPSK	M	Outer_Full	4.464	5.060	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	4.485	4.970	PASS
N2	15	5	DFT-64QAM	M	Outer_Full	4.474	4.920	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	4.481	5.070	PASS
N2	15	5	CP-QPSK	M	Outer_Full	4.481	5.170	PASS
N2	15	5	CP-16QAM	M	Outer_Full	4.501	5.140	PASS
N2	15	5	CP-64QAM	M	Outer_Full	4.483	5.100	PASS
N2	15	5	CP-256QAM	M	Outer_Full	4.466	5.100	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	8.927	9.620	PASS
N2	15	10	DFT-PI2BPSK	M	Outer_Full	8.912	9.640	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	8.928	9.740	PASS
N2	15	10	DFT-64QAM	M	Outer_Full	8.925	9.520	PASS
N2	15	10	DFT-256QAM	M	Outer_Full	8.933	9.560	PASS
N2	15	10	CP-QPSK	M	Outer_Full	9.285	10.060	PASS
N2	15	10	CP-16QAM	M	Outer_Full	9.297	10.100	PASS
N2	15	10	CP-64QAM	M	Outer_Full	9.27	10.020	PASS
N2	15	10	CP-256QAM	M	Outer_Full	9.296	10.040	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	13.391	14.250	PASS
N2	15	15	DFT-PI2BPSK	M	Outer_Full	13.435	14.460	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	13.447	14.430	PASS
N2	15	15	DFT-64QAM	M	Outer_Full	13.432	14.400	PASS
N2	15	15	DFT-256QAM	M	Outer_Full	13.435	14.310	PASS
N2	15	15	CP-QPSK	M	Outer_Full	14.118	15.030	PASS
N2	15	15	CP-16QAM	M	Outer_Full	14.11	15.120	PASS
N2	15	15	CP-64QAM	M	Outer_Full	14.166	15.000	PASS
N2	15	15	CP-256QAM	M	Outer_Full	14.081	15.090	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	17.879	18.880	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	17.879	18.800	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	17.88	18.760	PASS



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N2	15	20	DFT-64QAM	M	Outer_Full	17.897	18.680	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	17.876	18.640	PASS
N2	15	20	CP-QPSK	M	Outer_Full	18.866	20.080	PASS
N2	15	20	CP-16QAM	M	Outer_Full	18.969	19.920	PASS
N2	15	20	CP-64QAM	M	Outer_Full	18.899	19.880	PASS
N2	15	20	CP-256QAM	M	Outer_Full	18.941	19.960	PASS



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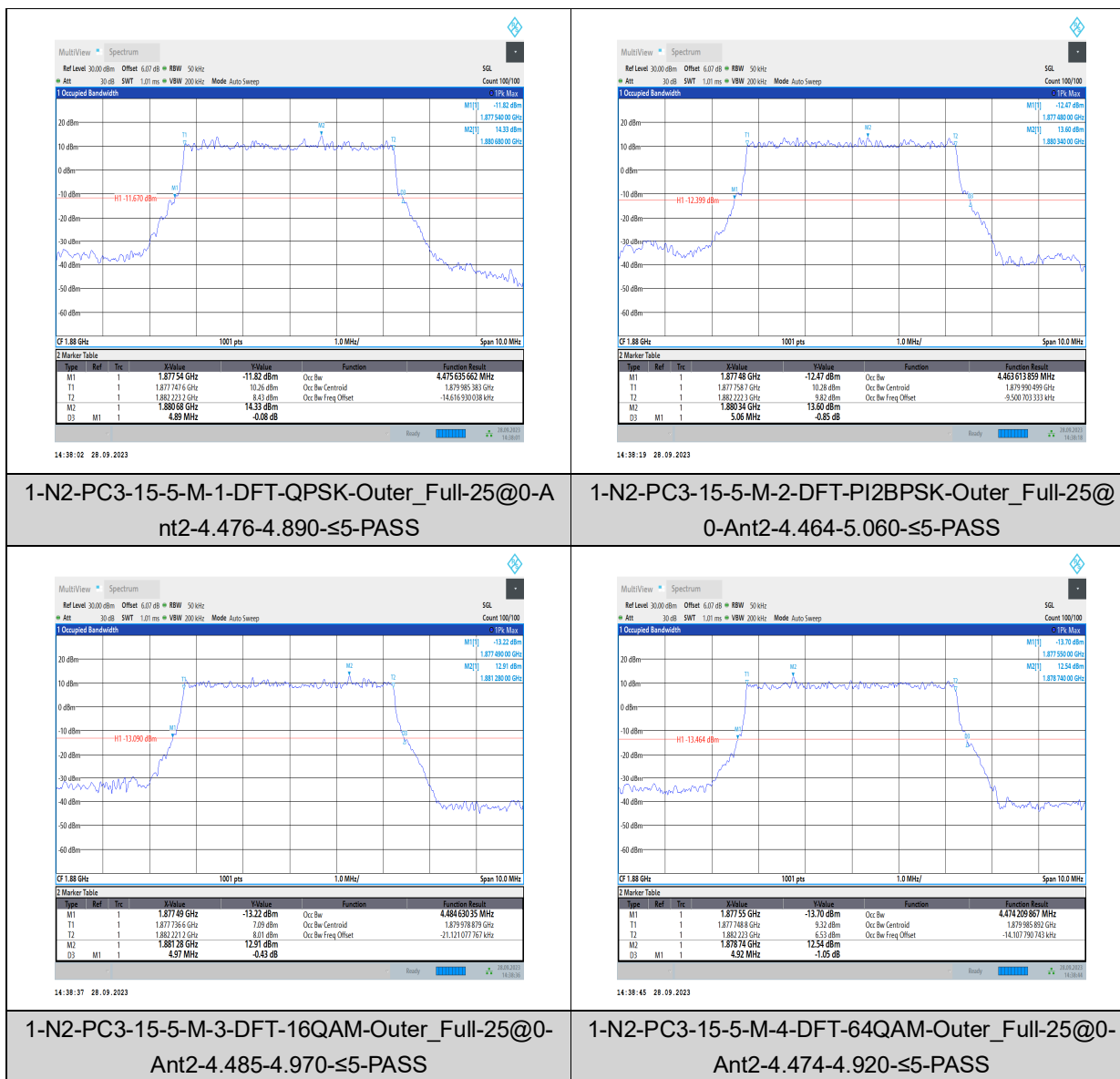
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Test Graphs



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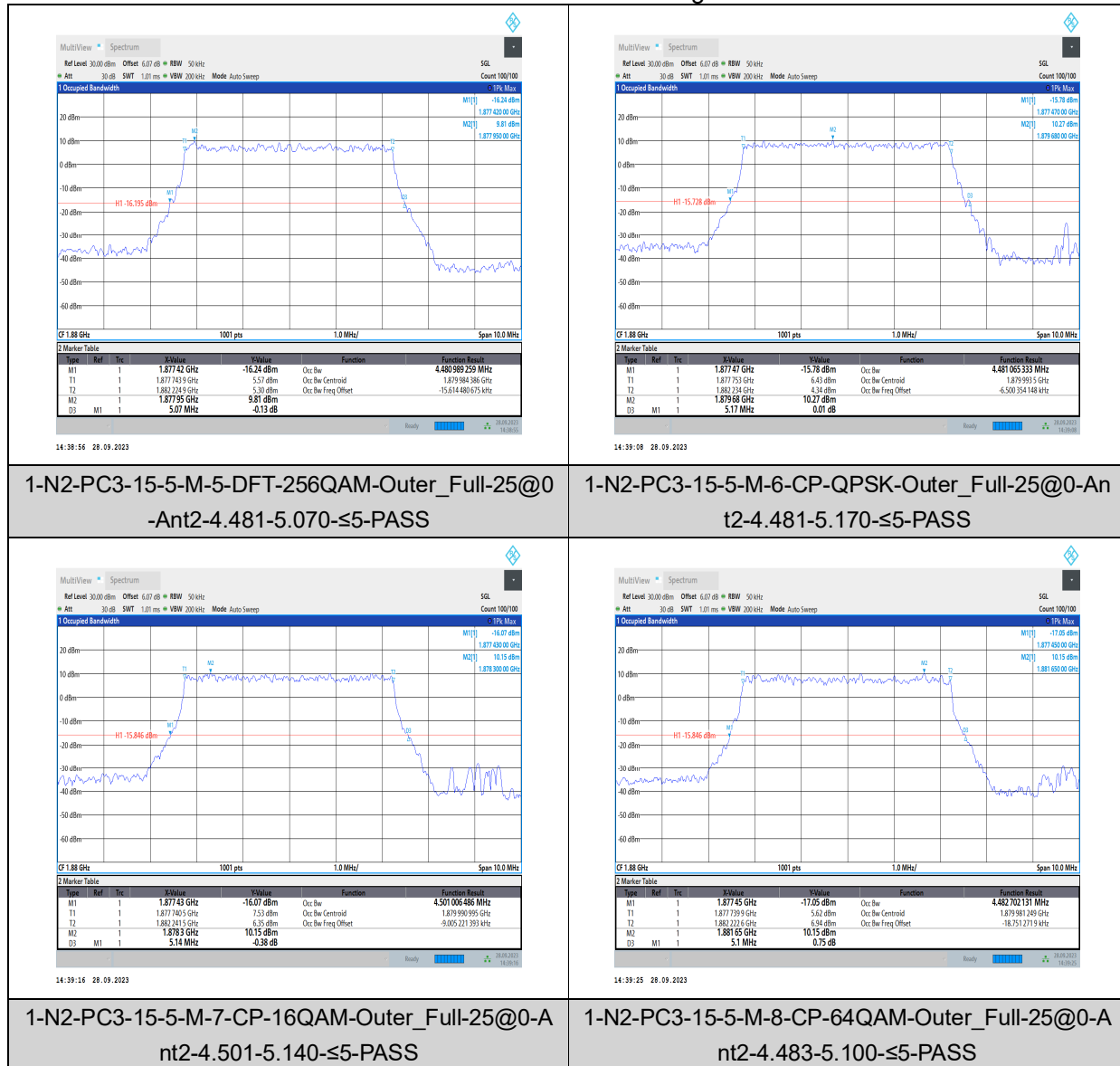
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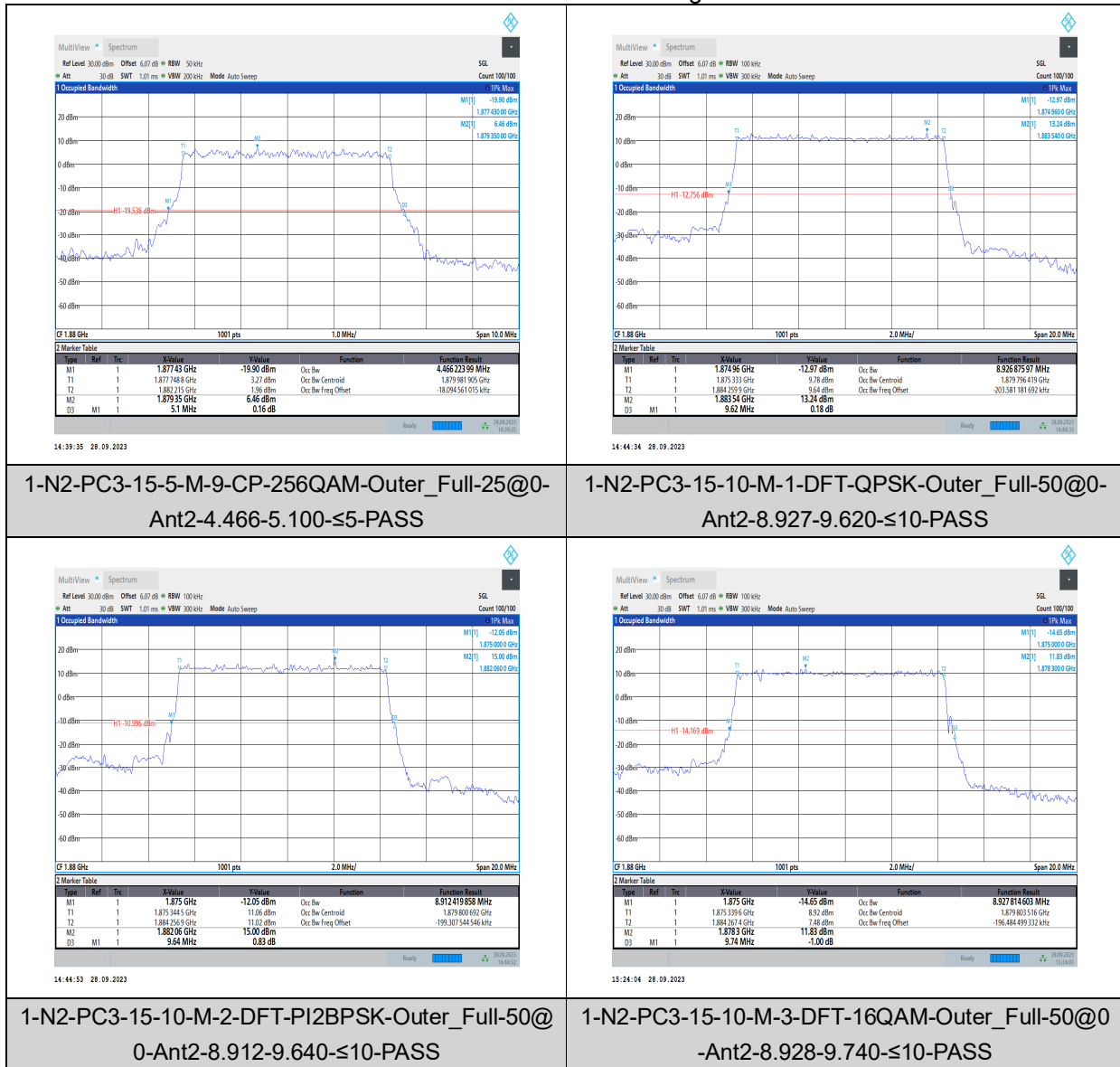
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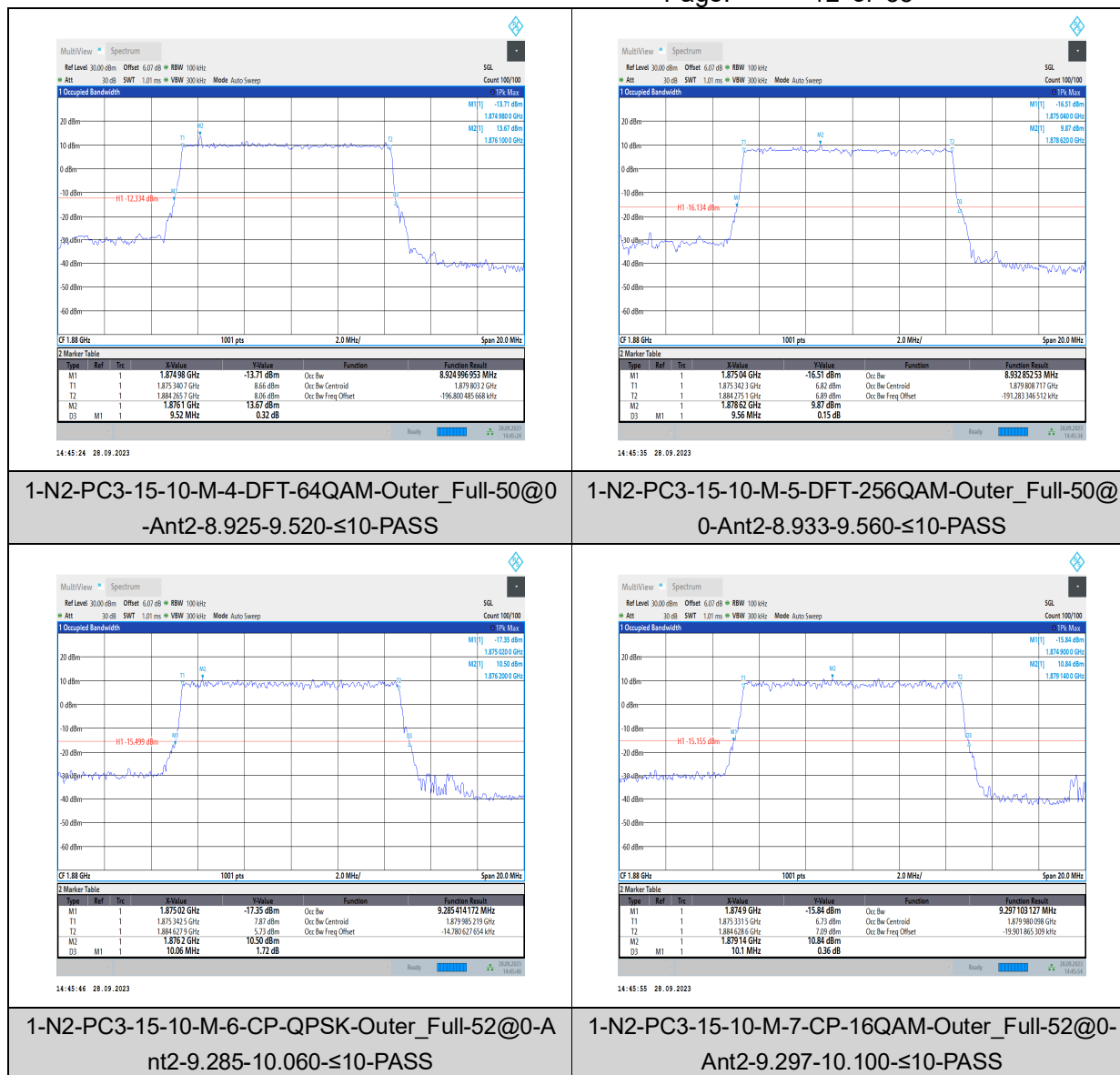
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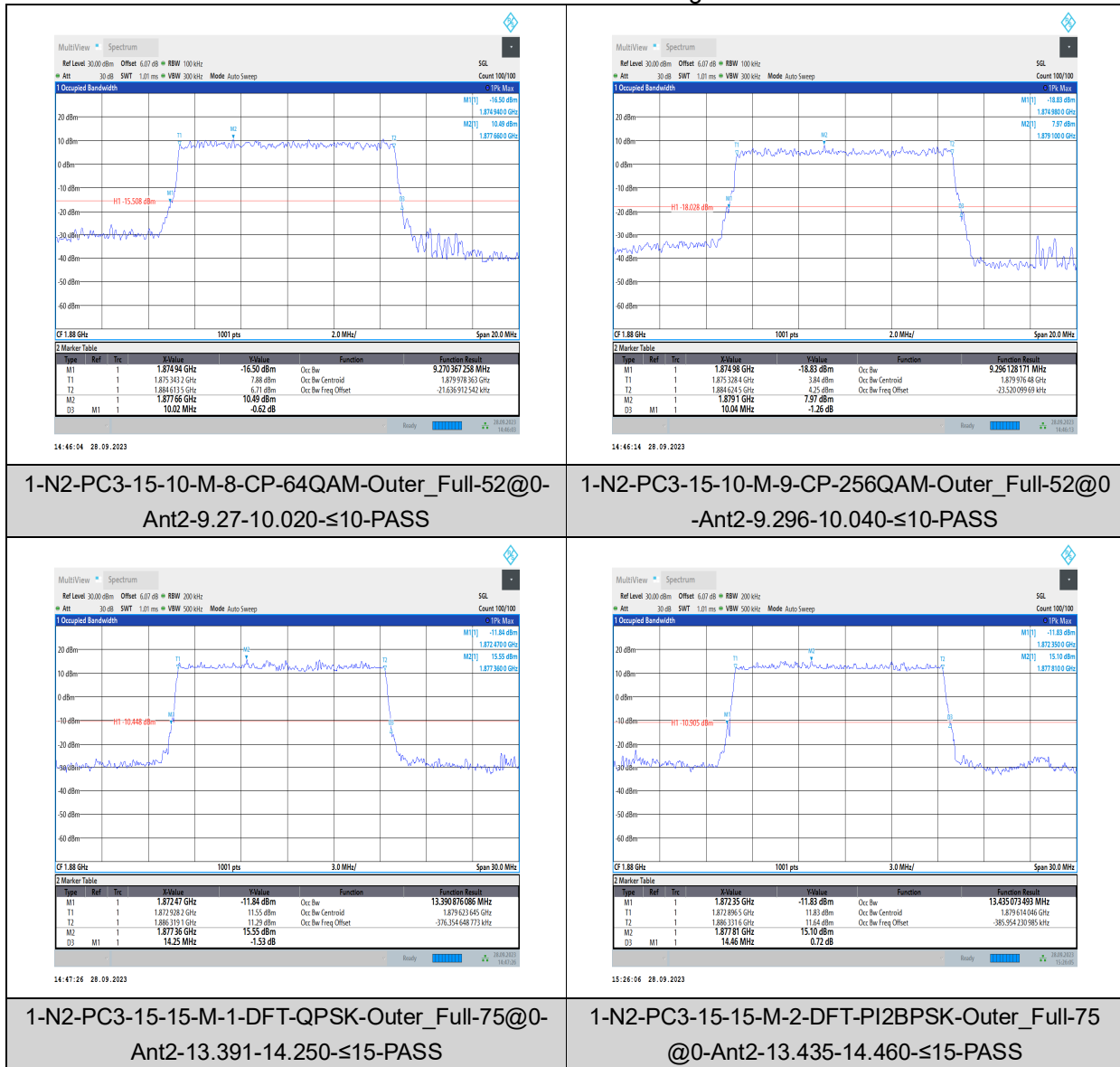
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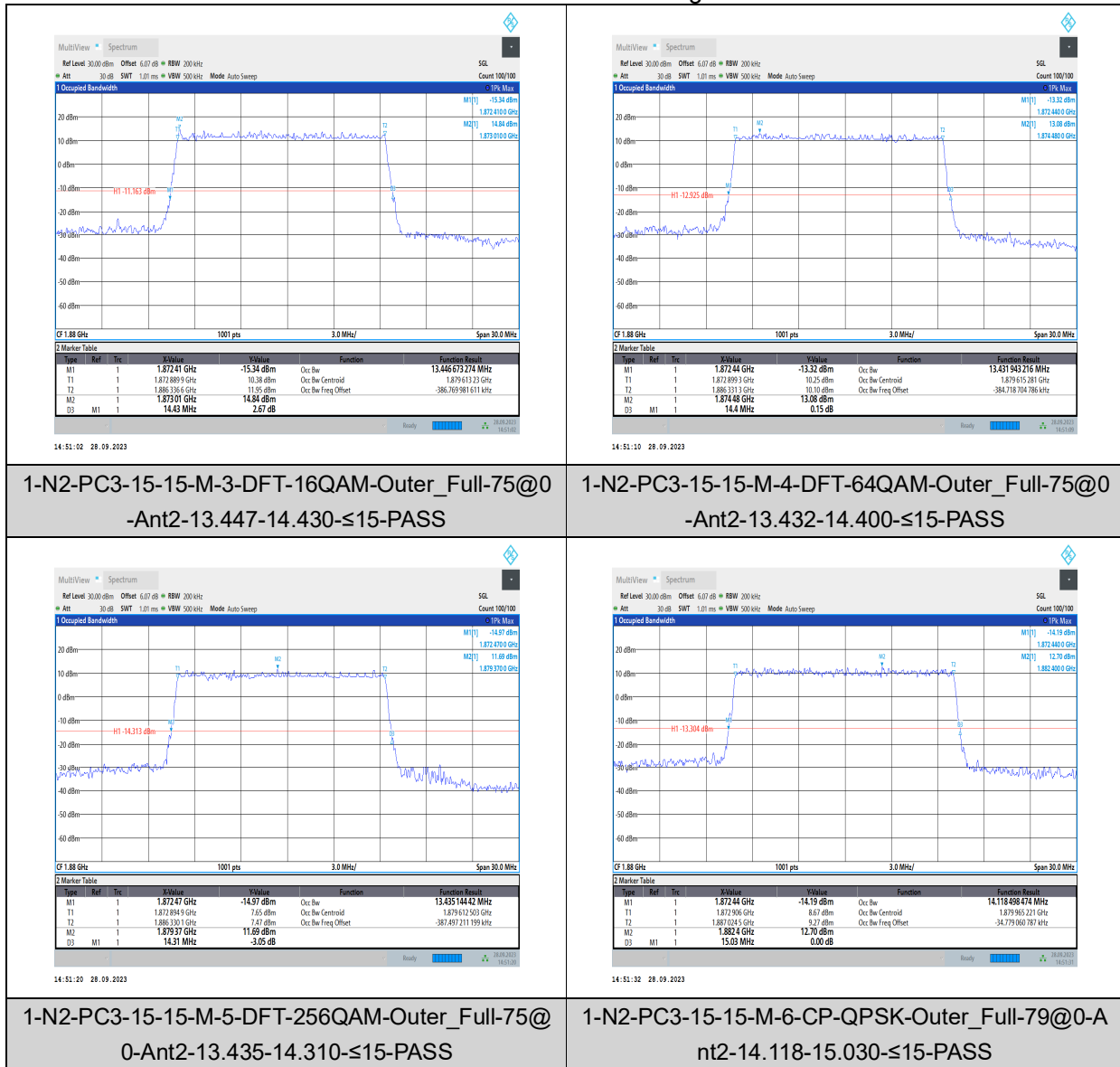
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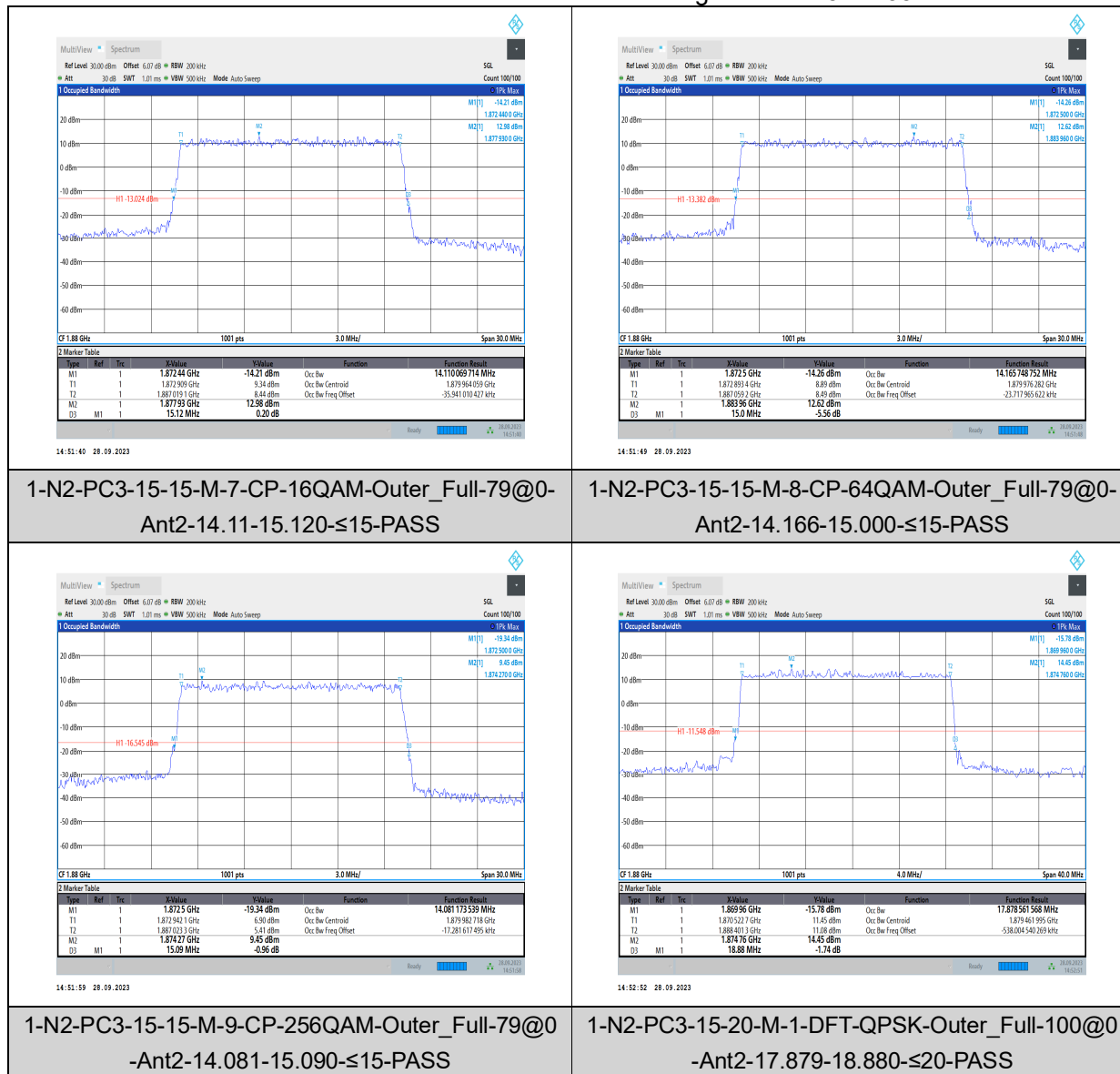
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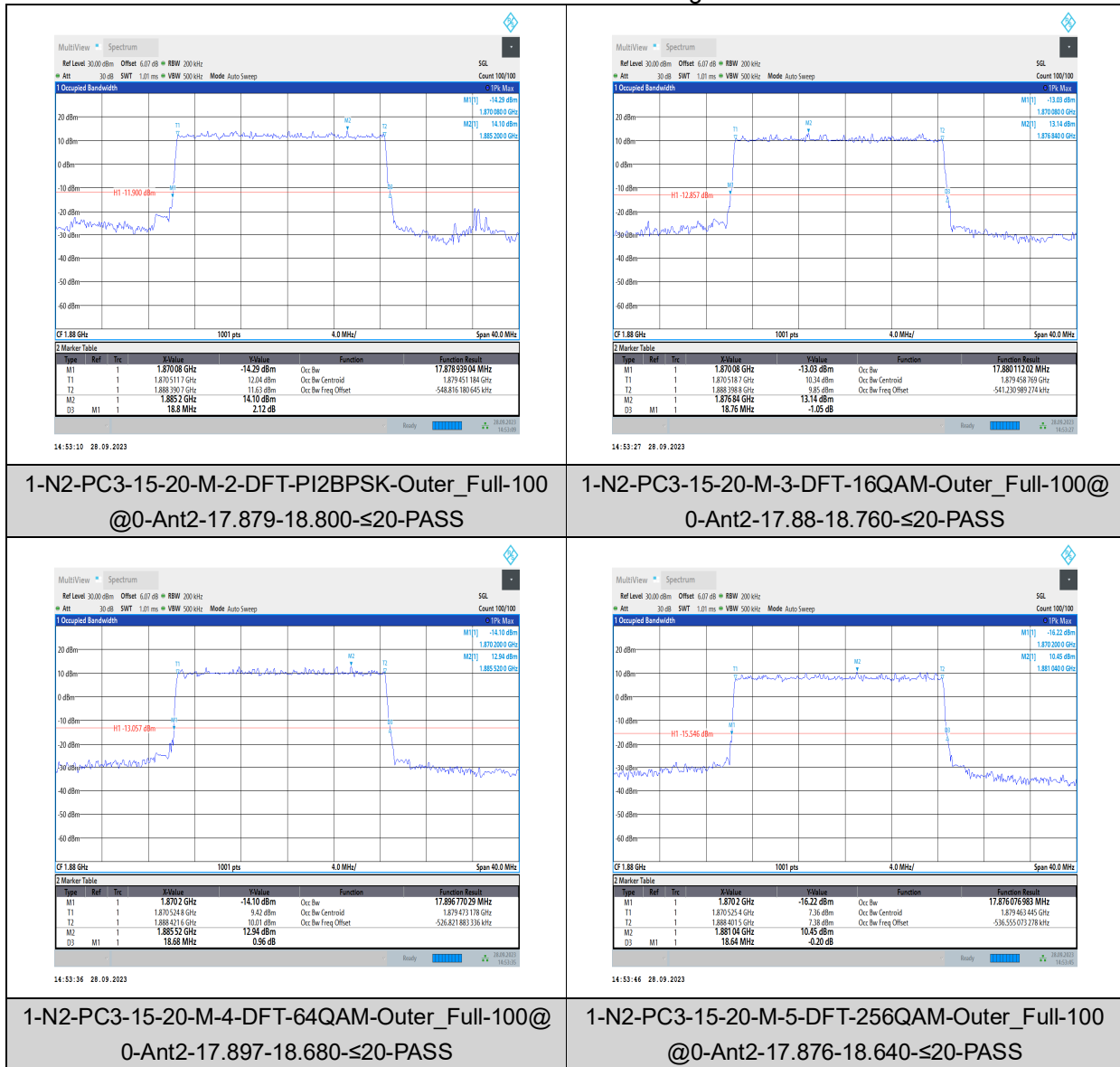
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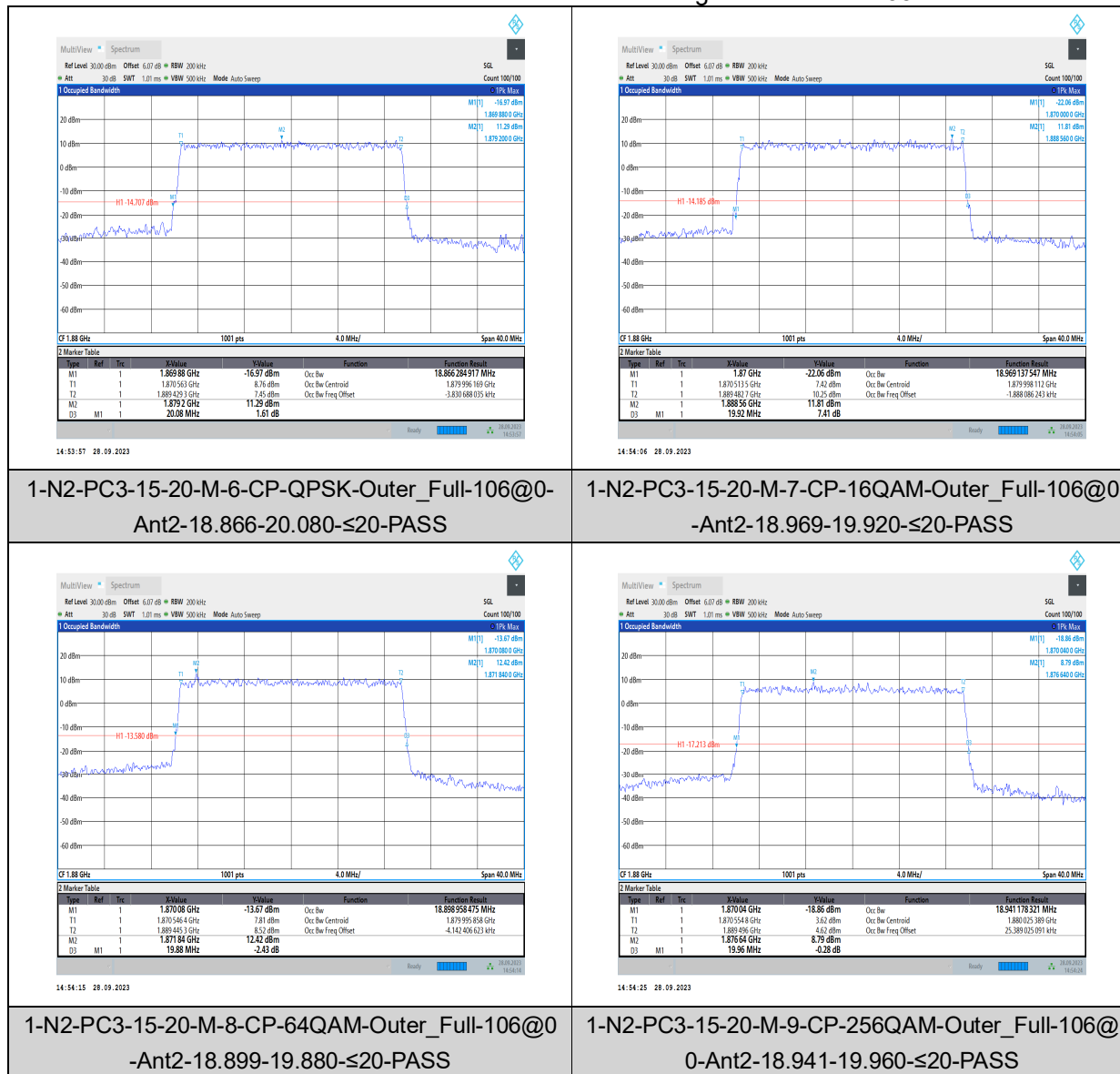
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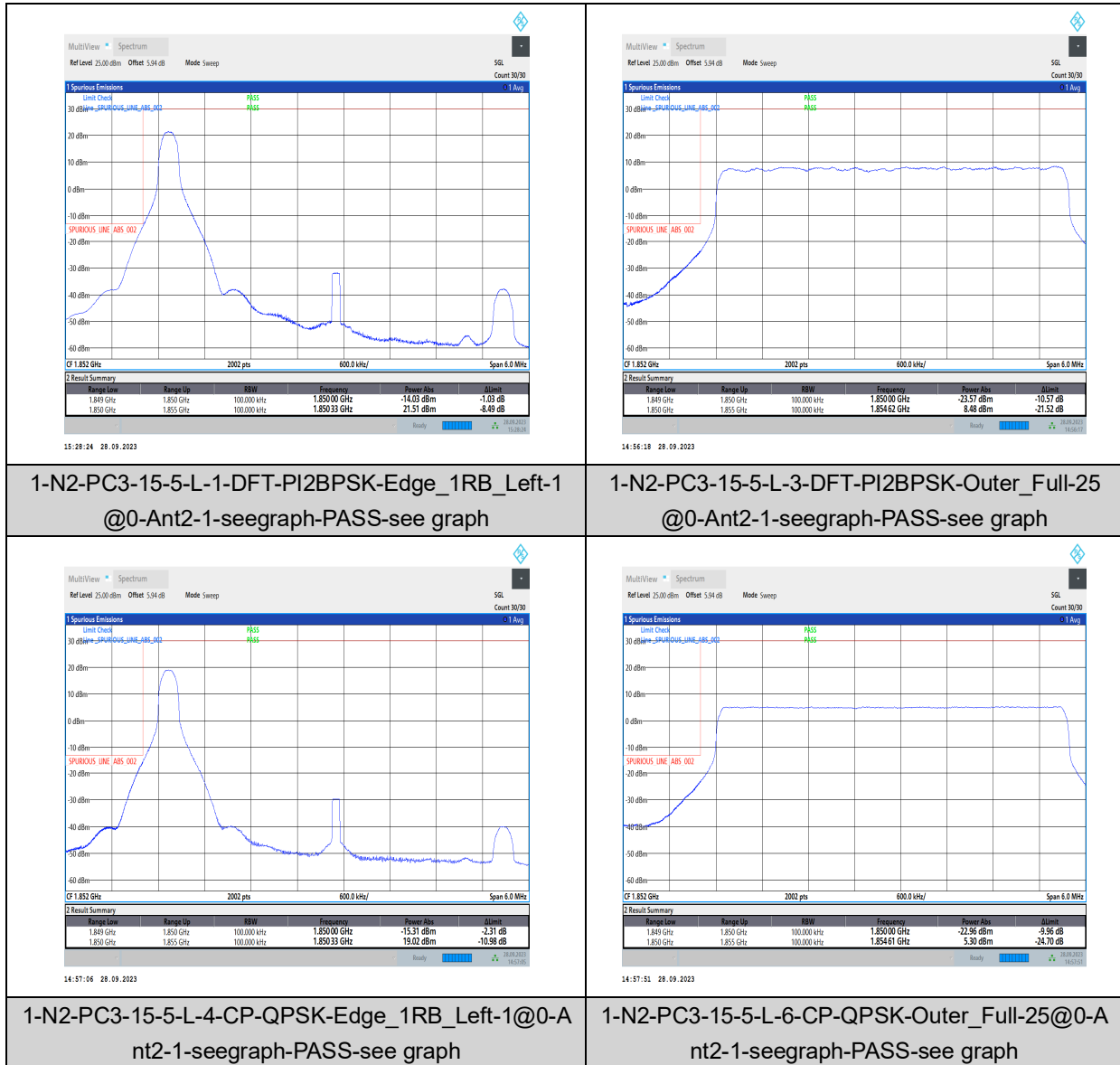
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Band Edge for SA

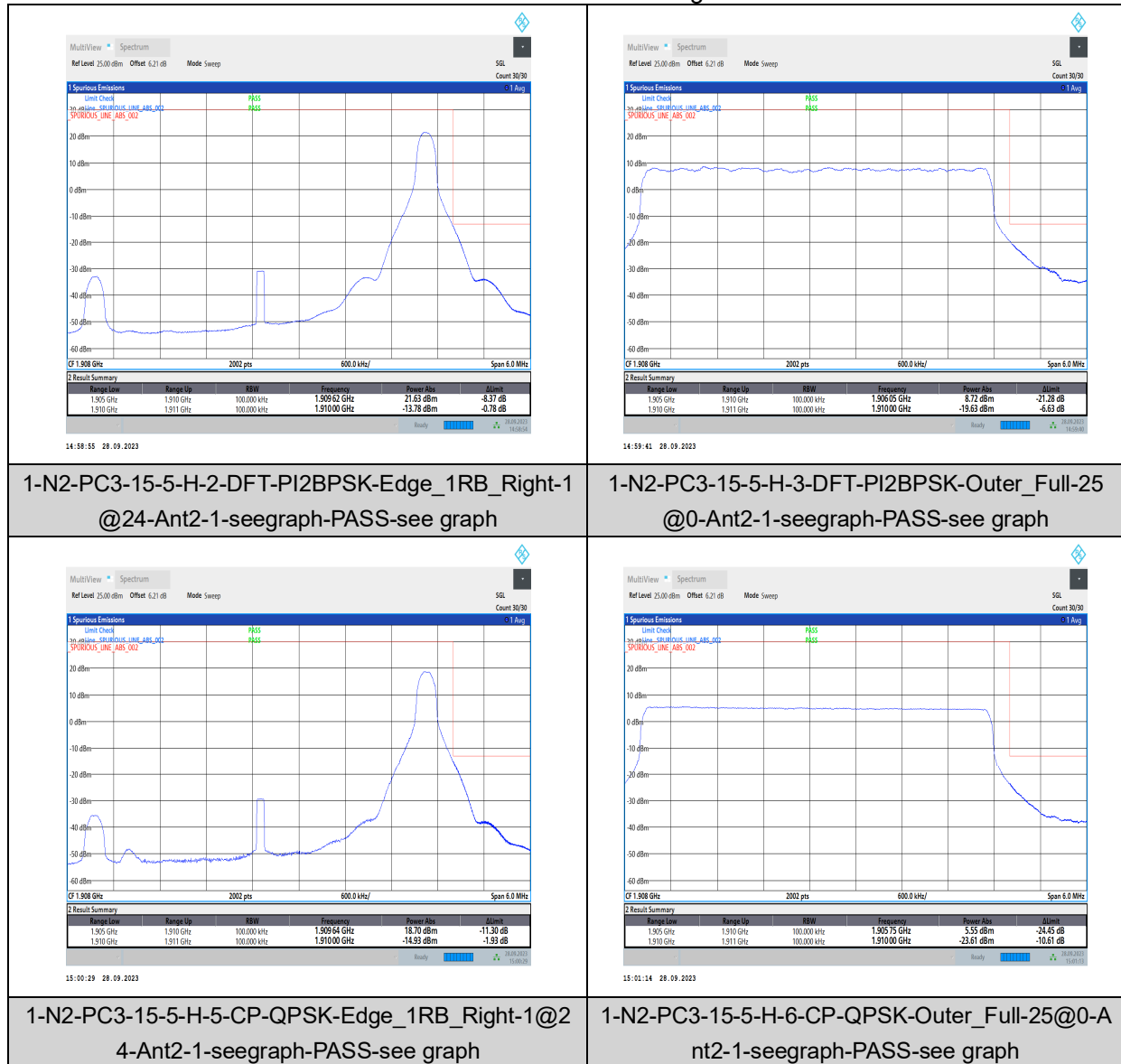
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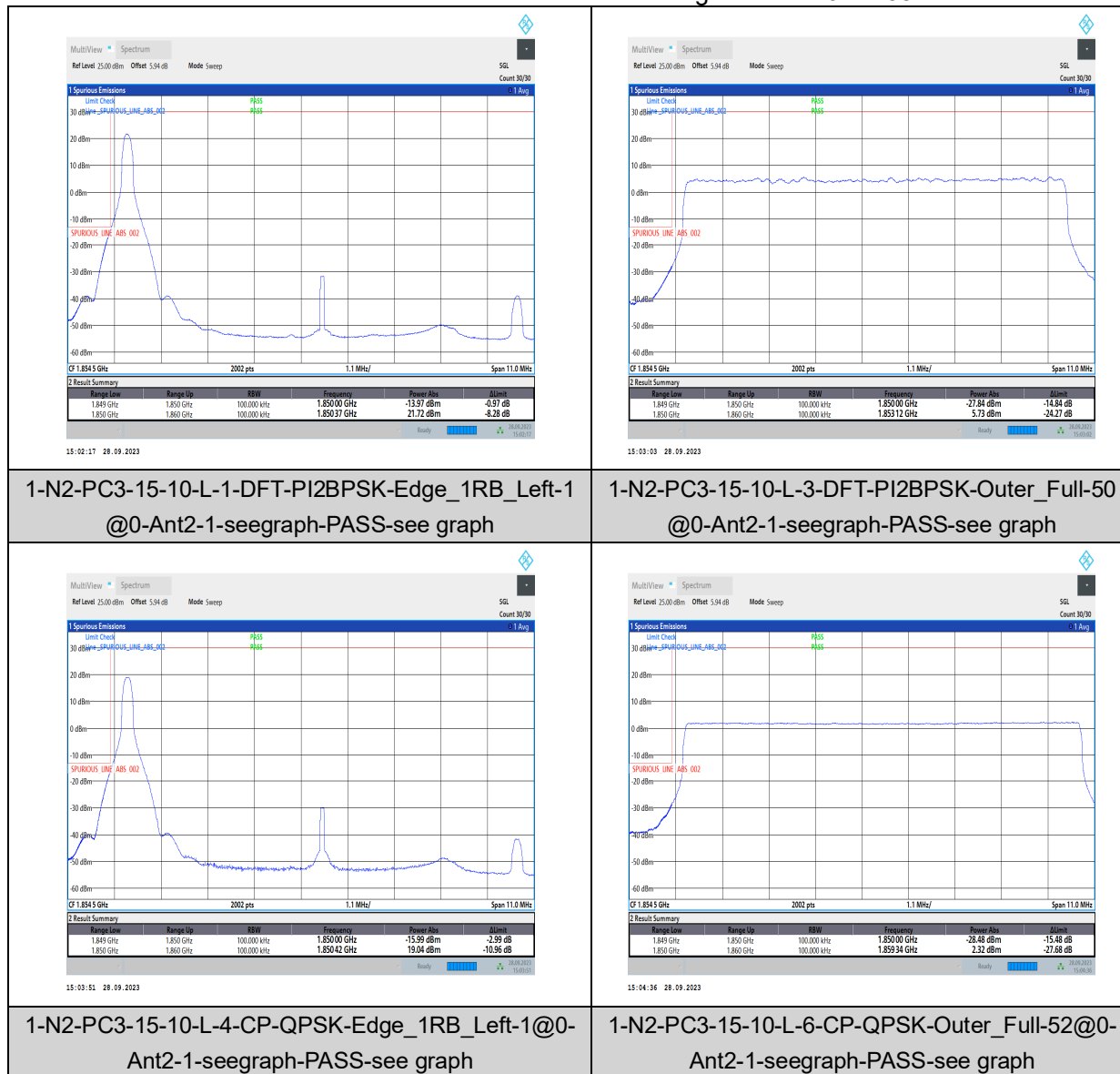
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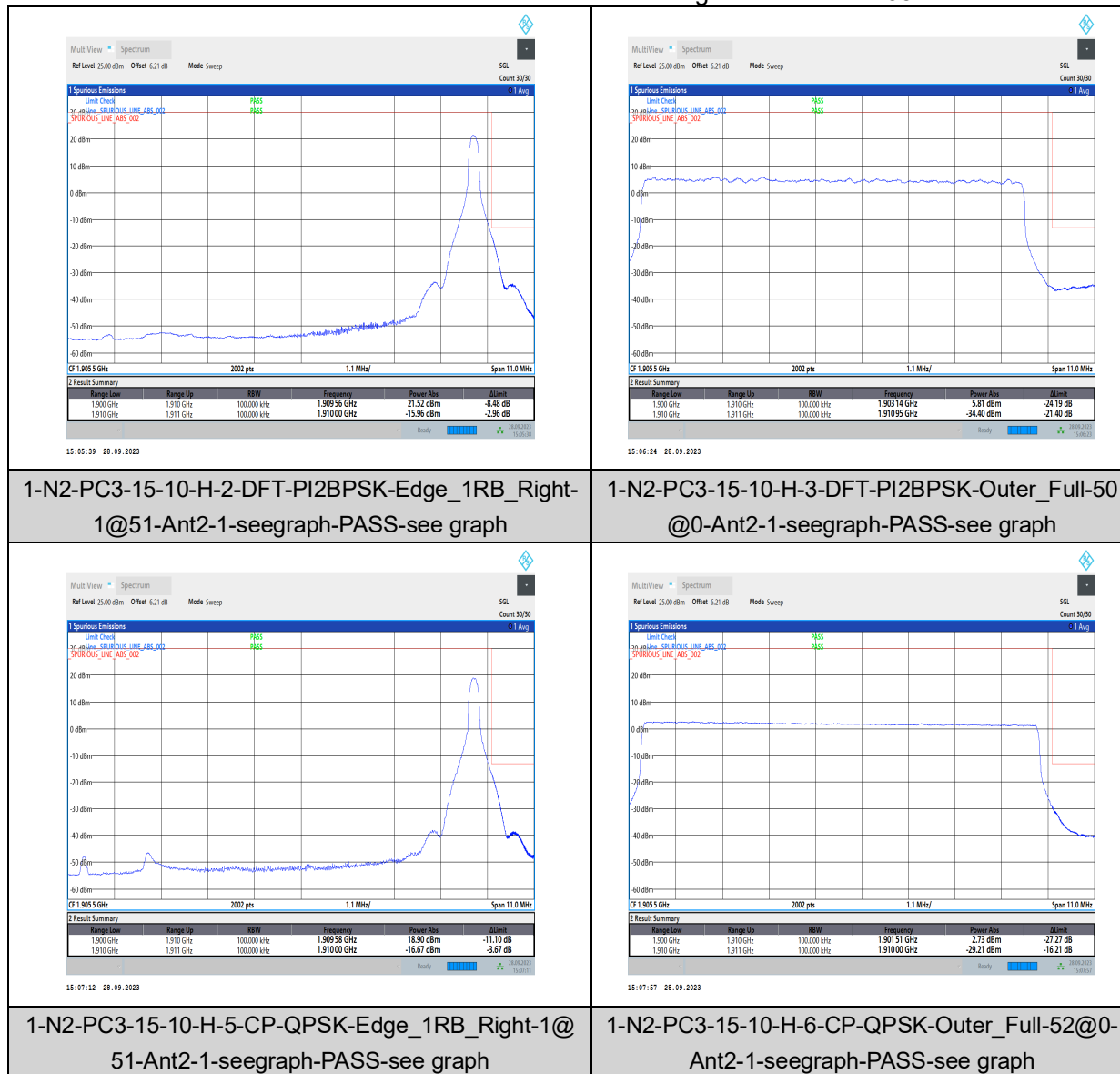
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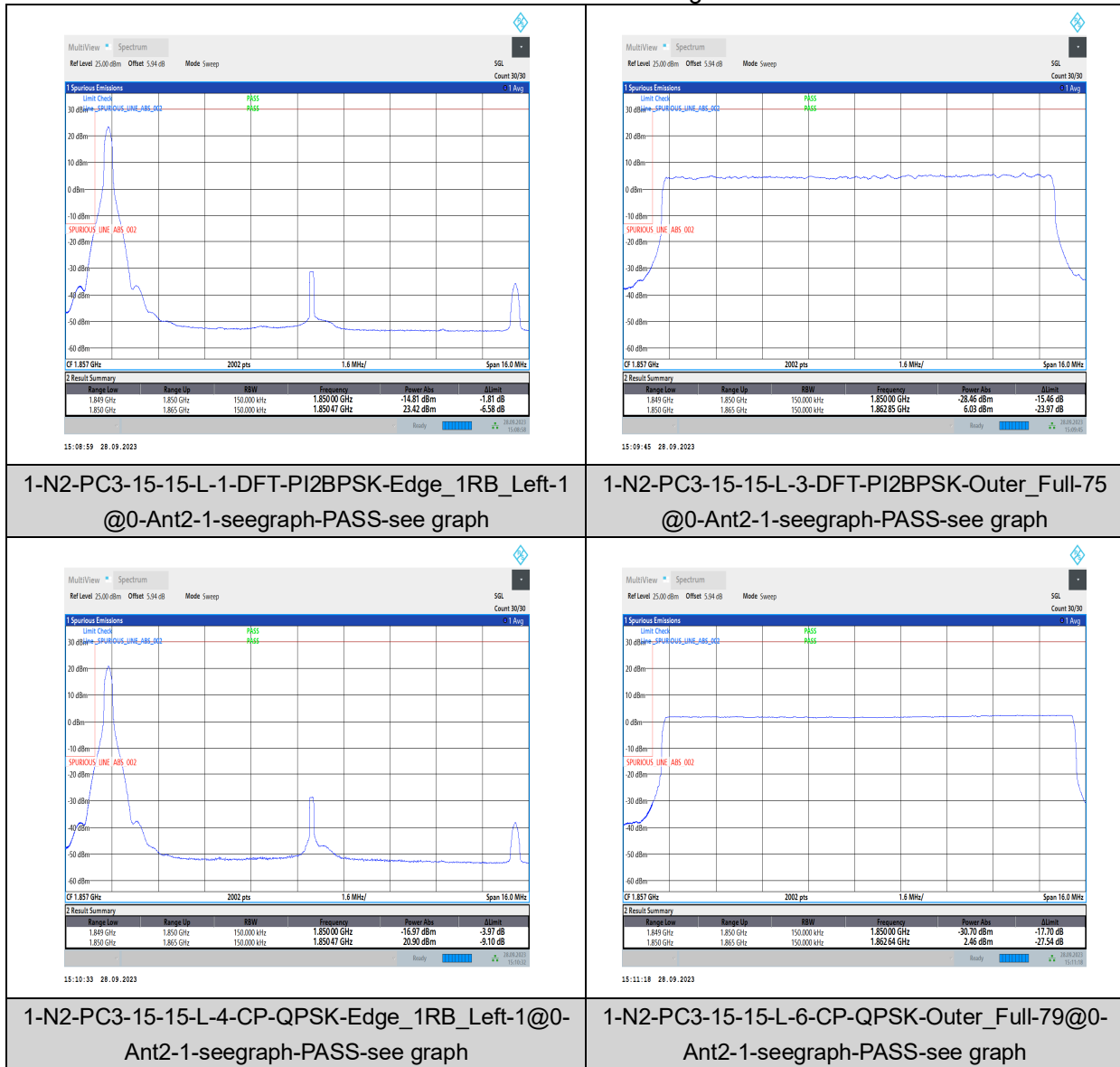
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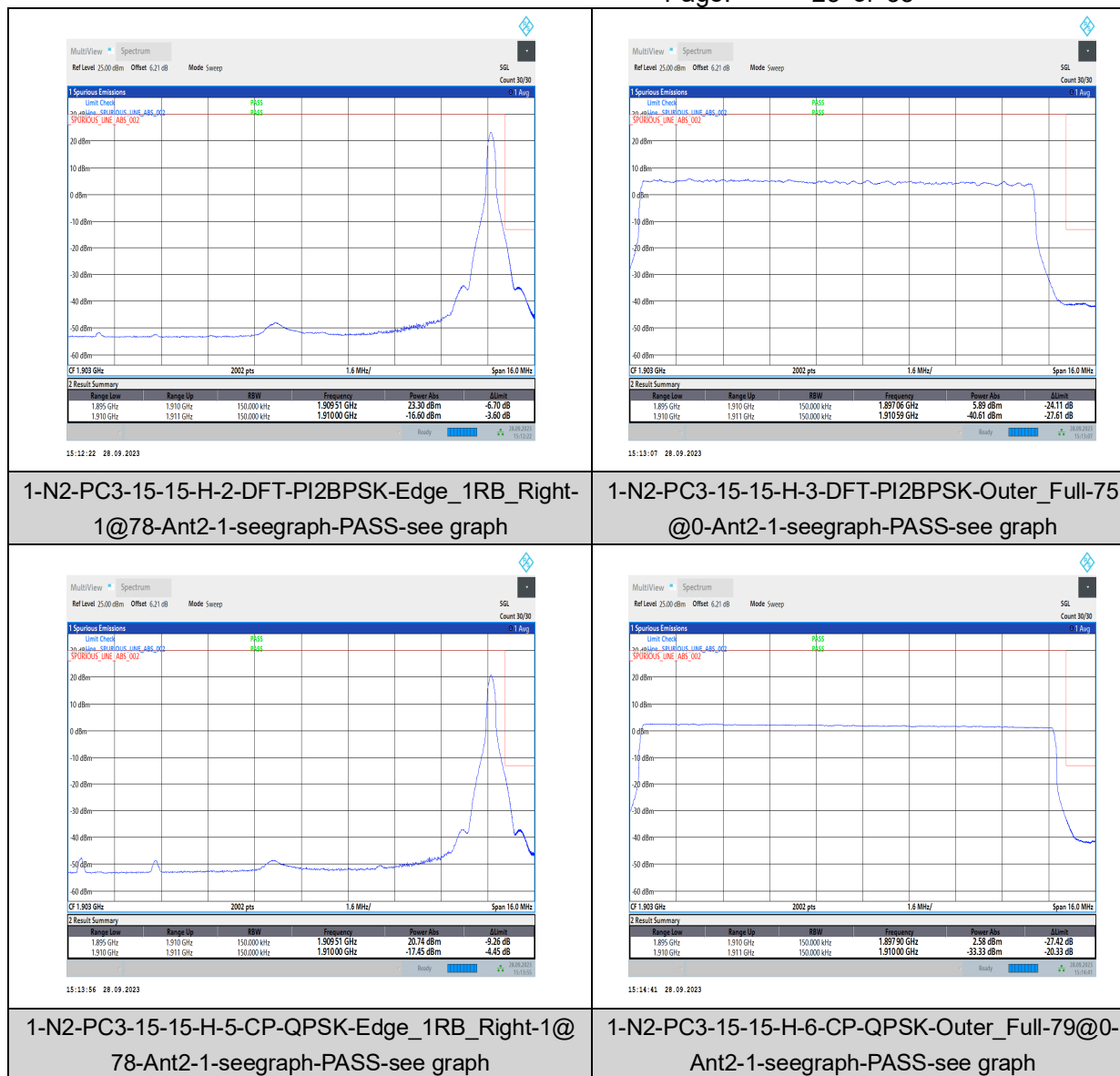
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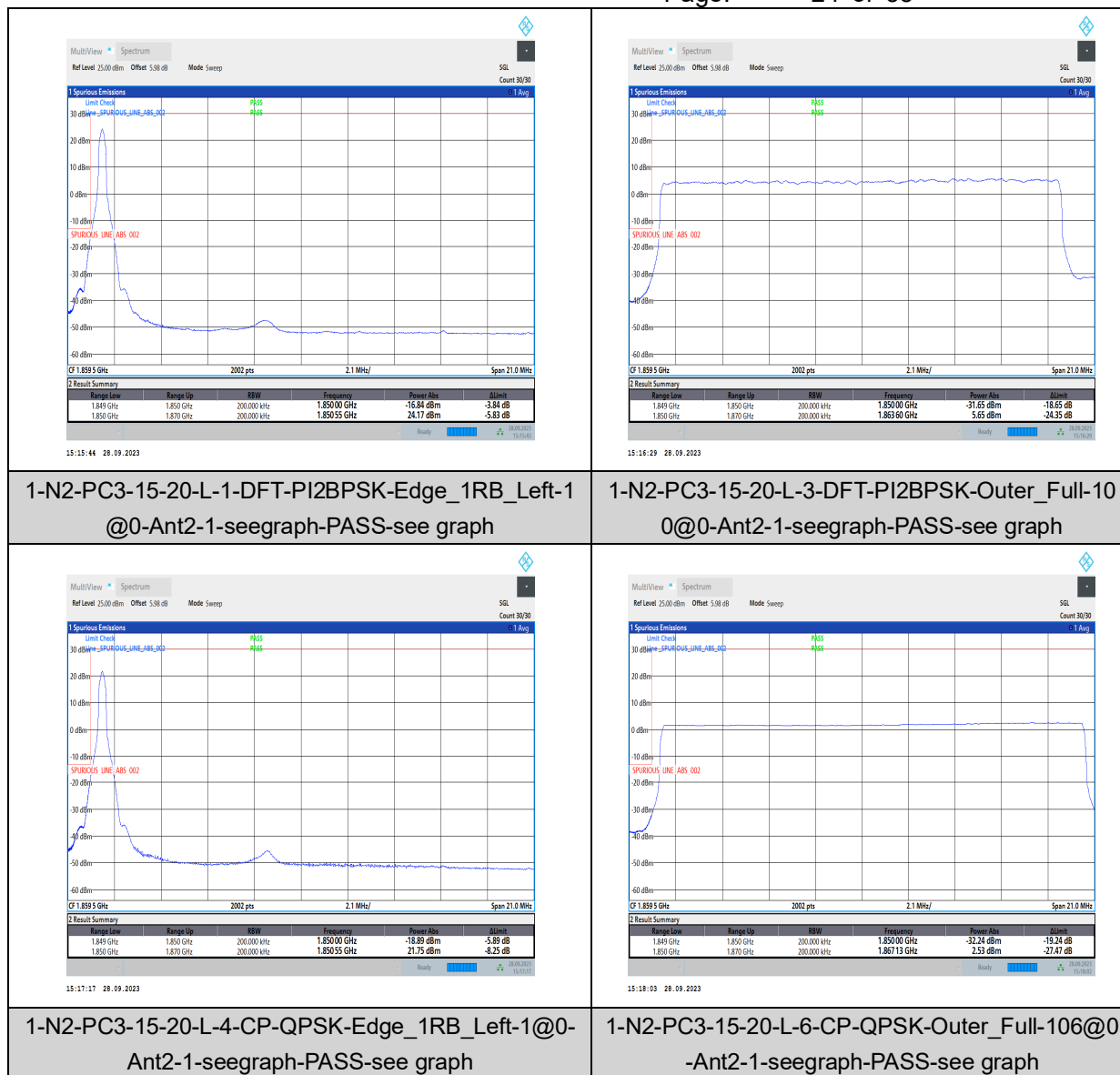
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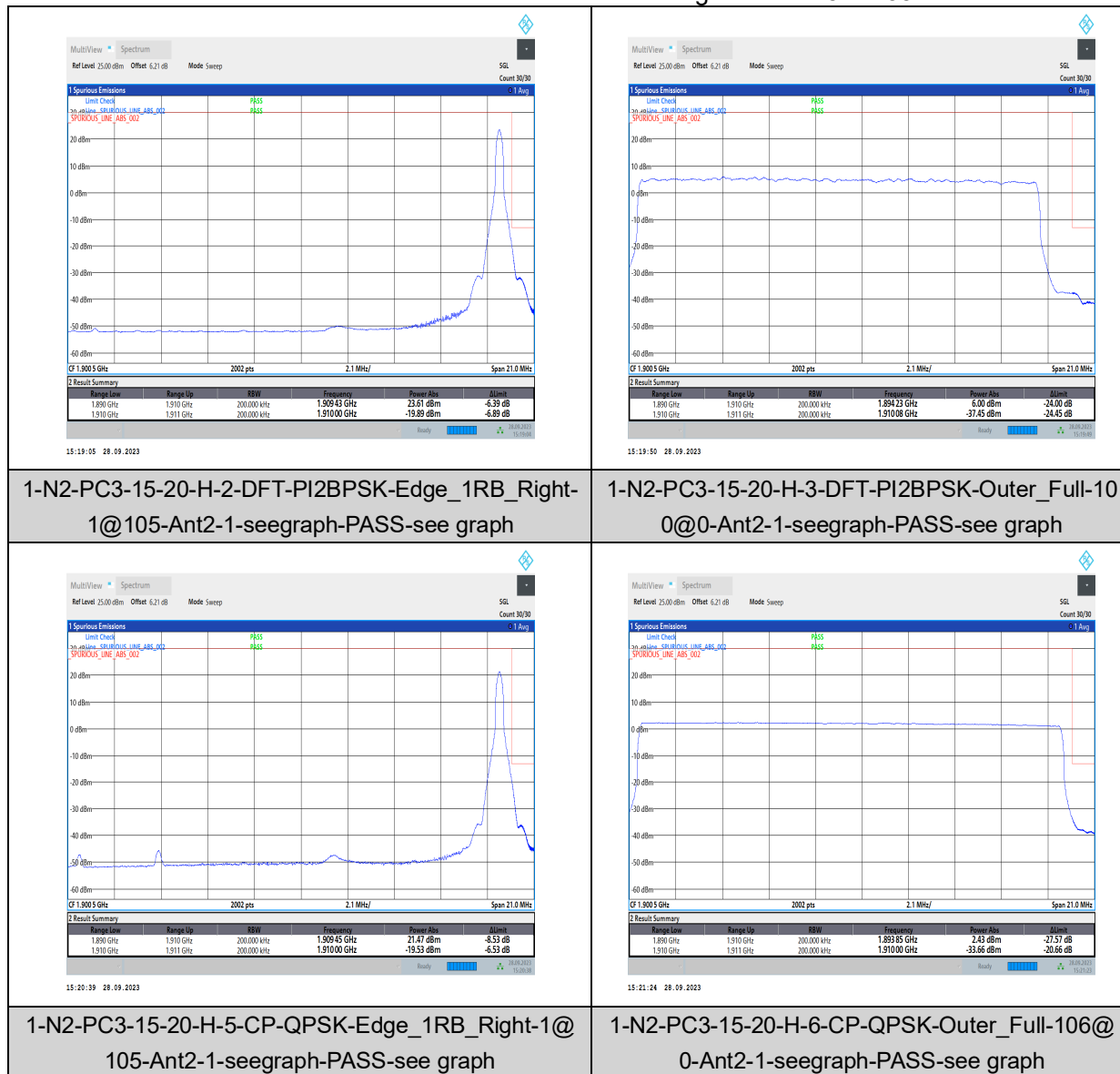
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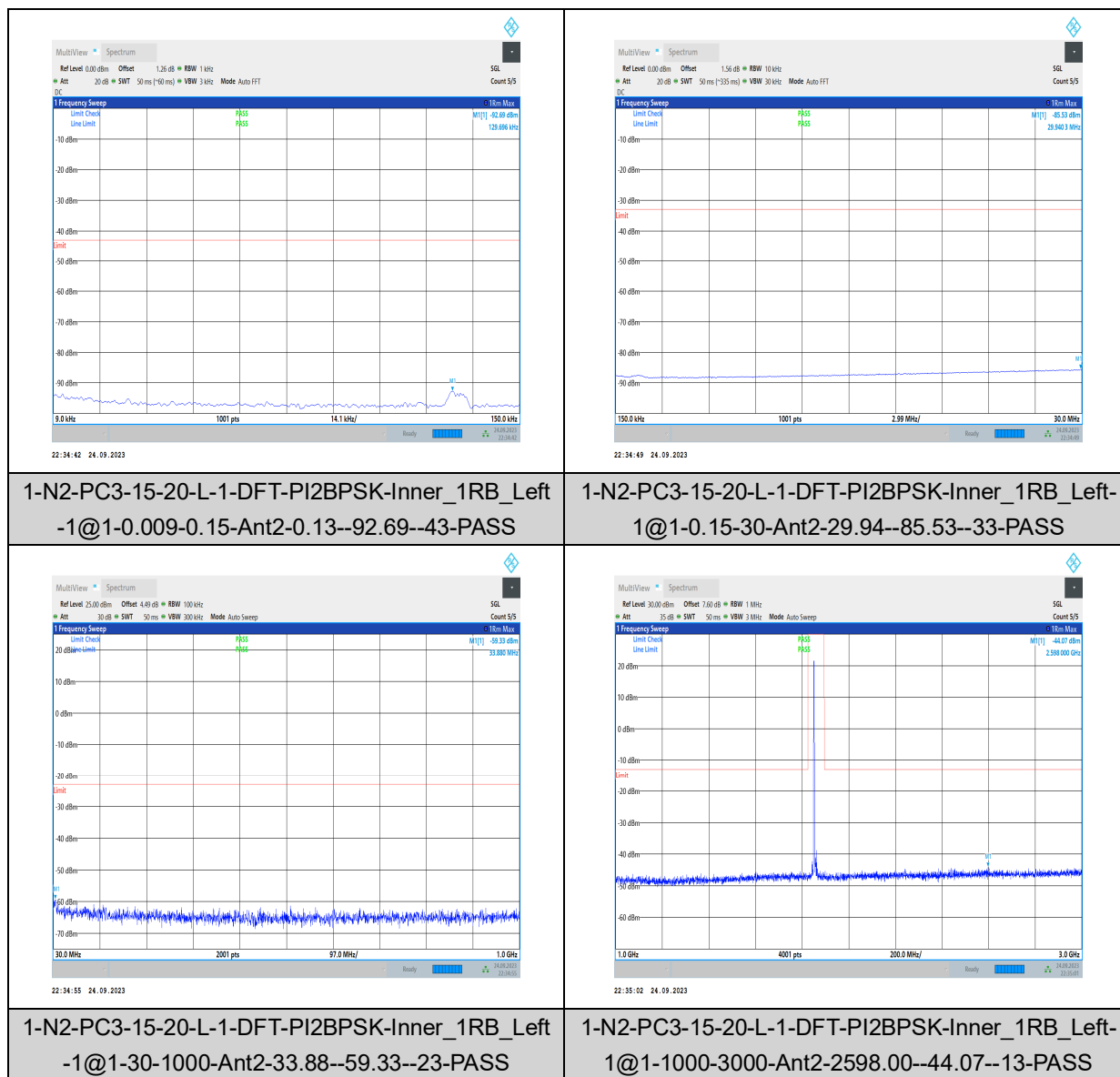
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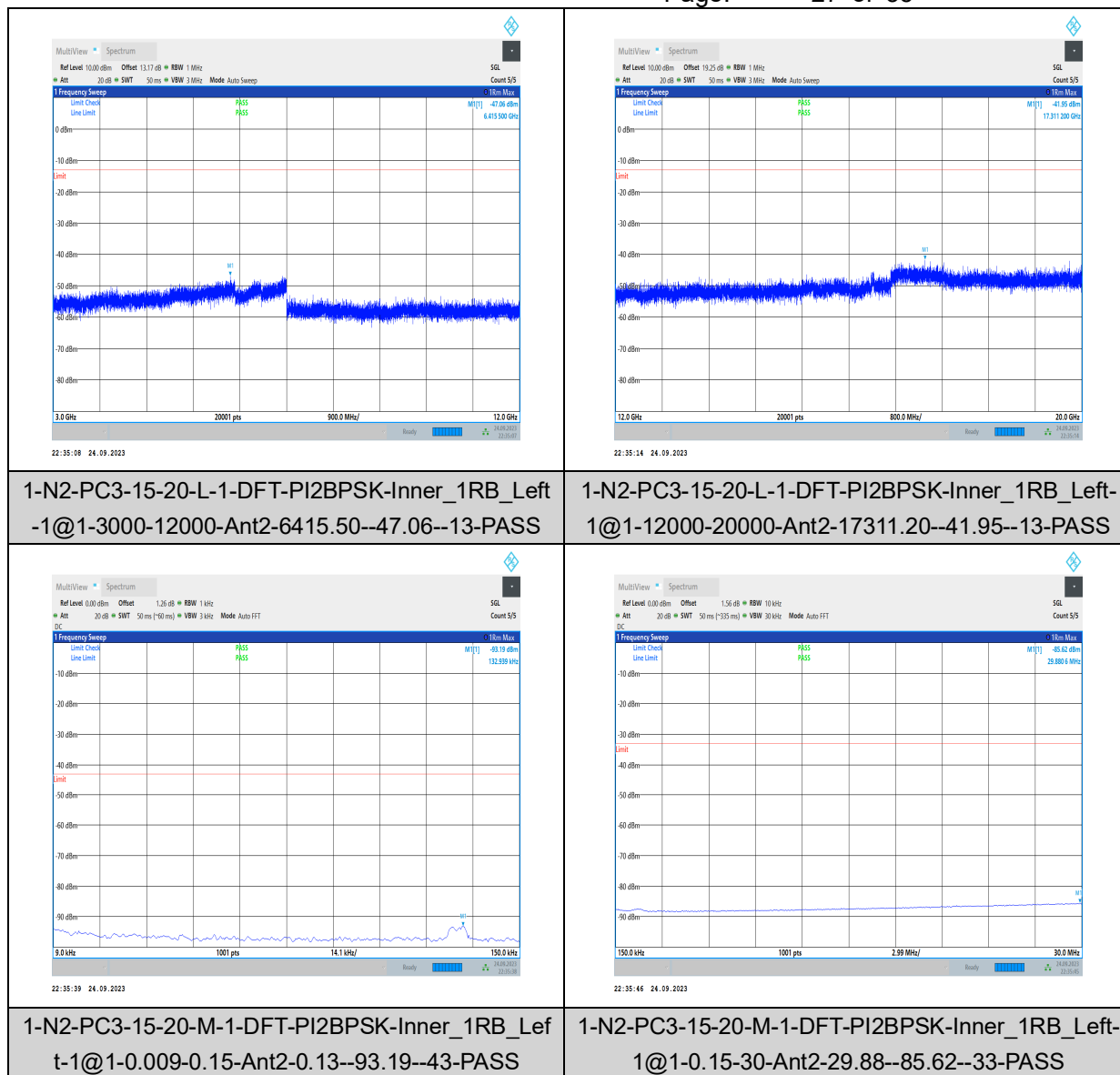
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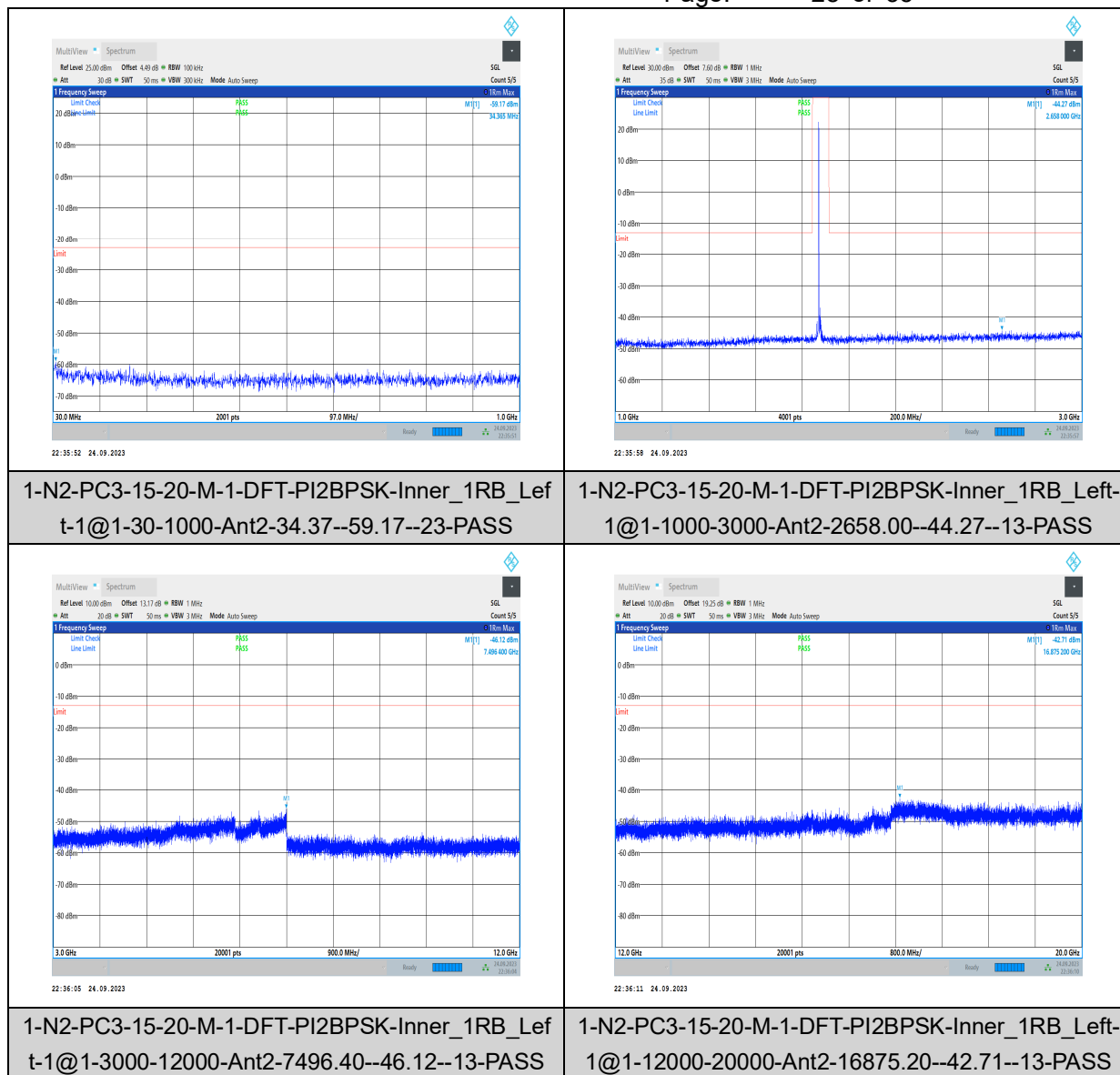
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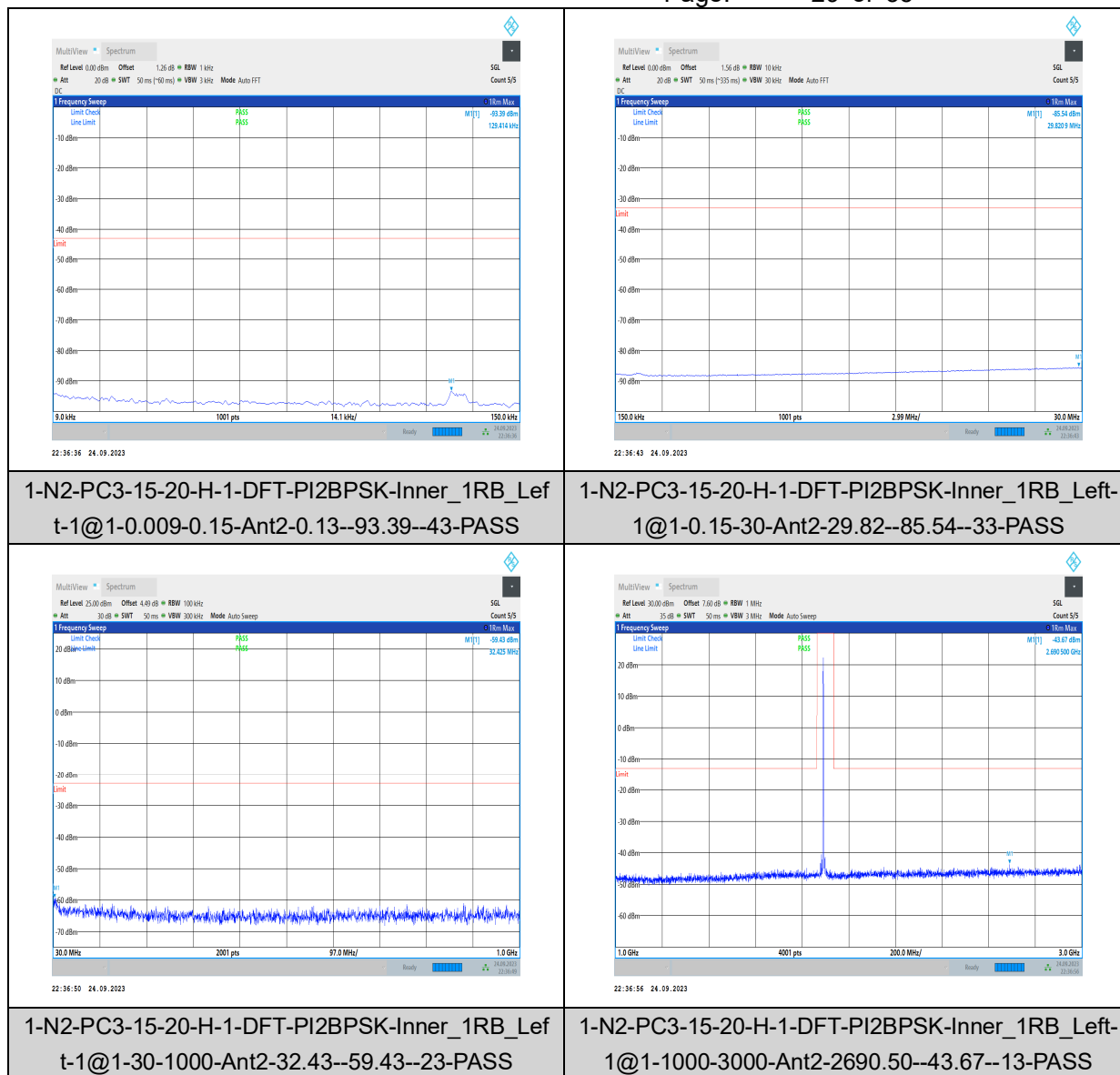
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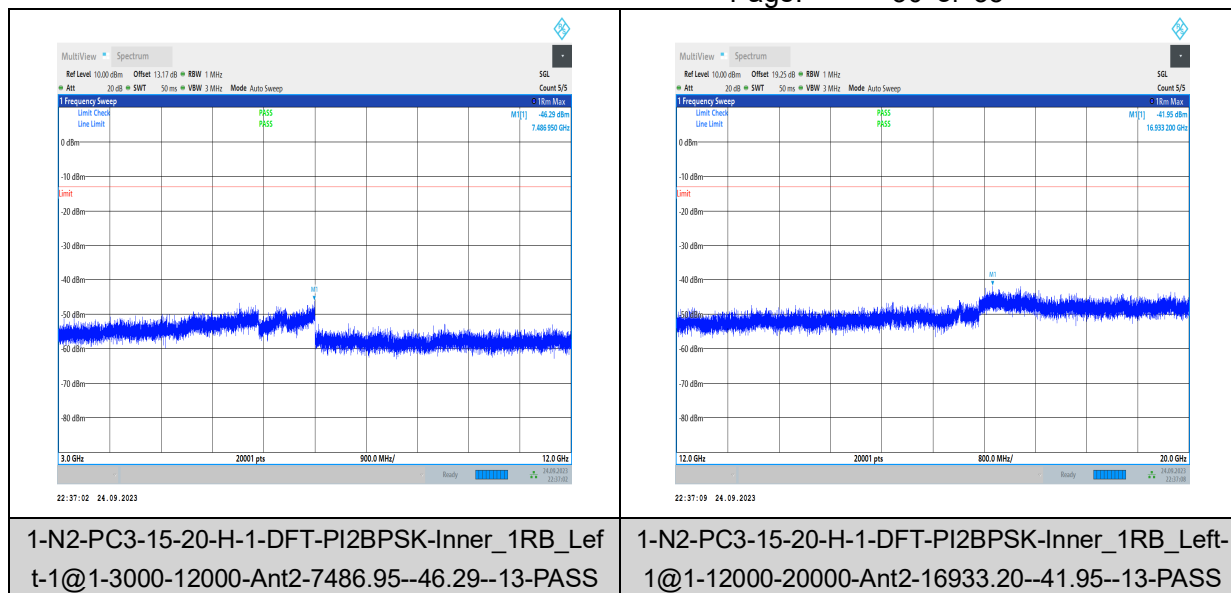
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Field Strength of Spurious Radiation

Test Band = SA Band 2_ 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	3702.18	44.45	-48.50	28.98	-70.33	-13.00	57.33	Horizontal
2	5553.27	43.53	-47.66	32.71	-66.68	-13.00	53.68	Horizontal
3	7404.36	41.89	-46.17	36.57	-62.97	-13.00	49.97	Horizontal
4	9255.45	39.91	-43.17	37.83	-60.69	-13.00	47.69	Horizontal
5	11106.54	36.95	-40.36	39.38	-59.29	-13.00	46.29	Horizontal
6	12957.63	36.24	-39.41	38.63	-59.80	-13.00	46.80	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	44.14	-48.50	28.98	-70.64	-13.00	57.64	Vertical
2	5553.27	43.33	-47.66	32.71	-66.88	-13.00	53.88	Vertical
3	7404.36	42.00	-46.17	36.57	-62.86	-13.00	49.86	Vertical
4	9255.45	39.73	-43.17	37.83	-60.87	-13.00	47.87	Vertical
5	11106.54	37.78	-40.36	39.38	-58.46	-13.00	45.46	Vertical
6	12957.63	36.06	-39.41	38.63	-59.98	-13.00	46.98	Vertical



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Test Band = SA Band 2_ 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	3742.18	44.66	-48.37	29.04	-69.93	-13.00	56.93	Horizontal
2	5613.27	42.76	-47.67	32.72	-67.45	-13.00	54.45	Horizontal
3	7484.36	42.01	-46.17	36.76	-62.66	-13.00	49.66	Horizontal
4	9355.45	40.01	-42.97	37.92	-60.30	-13.00	47.30	Horizontal
5	11226.54	37.66	-40.37	39.35	-58.62	-13.00	45.62	Horizontal
6	13097.63	35.79	-38.42	38.83	-59.06	-13.00	46.06	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	44.87	-48.37	29.04	-69.72	-13.00	56.72	Vertical
2	5613.27	43.67	-47.67	32.72	-66.54	-13.00	53.54	Vertical
3	7484.36	40.77	-46.17	36.76	-63.90	-13.00	50.90	Vertical
4	9355.45	40.59	-42.97	37.92	-59.72	-13.00	46.72	Vertical
5	11226.54	36.92	-40.37	39.35	-59.36	-13.00	46.36	Vertical
6	13097.63	35.97	-38.42	38.83	-58.88	-13.00	45.88	Vertical



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Test Band = SA Band 2_ 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	3782.18	43.63	-48.24	29.10	-70.77	-13.00	57.77	Horizontal
2	5673.27	42.65	-47.55	32.73	-67.42	-13.00	54.42	Horizontal
3	7564.36	40.77	-45.14	36.72	-62.91	-13.00	49.91	Horizontal
4	9455.45	40.09	-42.67	38.01	-59.83	-13.00	46.83	Horizontal
5	11346.54	38.04	-40.28	39.33	-58.17	-13.00	45.17	Horizontal
6	13237.63	36.62	-38.85	39.15	-58.34	-13.00	45.34	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	43.90	-48.24	29.10	-70.50	-13.00	57.50	Vertical
2	5673.27	43.42	-47.55	32.73	-66.65	-13.00	53.65	Vertical
3	7564.36	39.78	-45.14	36.72	-63.90	-13.00	50.90	Vertical
4	9455.45	39.33	-42.67	38.01	-60.59	-13.00	47.59	Vertical
5	11346.54	37.44	-40.28	39.33	-58.77	-13.00	45.77	Vertical
6	13237.63	36.43	-38.85	39.15	-58.53	-13.00	45.53	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	215.600000	0.114681	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	147.700000	0.078564	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	22.700000	0.012074	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VH	NT	-60.800000	-0.032340	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VN	NT	-38.700000	-0.020585	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VL	NT	1.400000	0.000745	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	113.600000	0.060426	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	251.600000	0.133830	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	217.300000	0.115585	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	230.000000	0.122340	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	228.200000	0.121383	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	207.600000	0.110426	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	146.700000	0.078032	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	246.000000	0.130851	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	69.500000	0.036968	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-30	-36.300000	-0.063883	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-20	-34.500000	-0.018351	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-10	-63.500000	-0.033777	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	0	-59.900000	-0.031862	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	10	-99.400000	-0.052872	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	20	-51.400000	-0.027340	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	30	-39.700000	-0.021117	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	40	-70.400000	-0.037447	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	50	-29.800000	-0.015851	PASS

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