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Appendix B.25

NR Band n70



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N70	15	5	DFT-QPSK	L	Inner_1RB_Left	23.98	22.28	30.00	PASS
N70	15	5	DFT-16QAM	L	Inner_1RB_Left	22.73	21.03	30.00	PASS
N70	15	5	DFT-QPSK	M	Inner_1RB_Left	24.11	22.41	30.00	PASS
N70	15	5	DFT-16QAM	M	Inner_1RB_Left	22.54	20.84	30.00	PASS
N70	15	5	DFT-QPSK	H	Inner_1RB_Left	24.07	22.37	30.00	PASS
N70	15	5	DFT-16QAM	H	Inner_1RB_Left	22.63	20.93	30.00	PASS
N70	15	10	DFT-QPSK	L	Inner_1RB_Left	24.12	22.42	30.00	PASS
N70	15	10	DFT-16QAM	L	Inner_1RB_Left	22.63	20.93	30.00	PASS
N70	15	10	DFT-QPSK	M	Inner_1RB_Left	24.03	22.33	30.00	PASS
N70	15	10	DFT-16QAM	M	Inner_1RB_Left	22.65	20.95	30.00	PASS
N70	15	10	DFT-QPSK	H	Inner_1RB_Left	23.97	22.27	30.00	PASS
N70	15	10	DFT-16QAM	H	Inner_1RB_Left	22.63	20.93	30.00	PASS
N70	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	23.63	21.93	30.00	PASS
N70	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	23.58	21.88	30.00	PASS
N70	15	15	DFT-PI2BPSK	L	Outer_Full	23.24	21.54	30.00	PASS
N70	15	15	DFT-QPSK	L	Inner_1RB_Left	24.12	22.42	30.00	PASS
N70	15	15	DFT-QPSK	L	Inner_1RB_Right	23.79	22.09	30.00	PASS
N70	15	15	DFT-QPSK	L	Outer_Full	22.80	21.10	30.00	PASS
N70	15	15	DFT-16QAM	L	Inner_1RB_Left	22.39	20.69	30.00	PASS
N70	15	15	DFT-16QAM	L	Inner_1RB_Right	22.46	20.76	30.00	PASS
N70	15	15	DFT-16QAM	L	Outer_Full	21.15	19.45	30.00	PASS
N70	15	15	DFT-64QAM	L	Inner_1RB_Left	21.19	19.49	30.00	PASS
N70	15	15	DFT-64QAM	L	Inner_1RB_Right	21.11	19.41	30.00	PASS
N70	15	15	DFT-64QAM	L	Outer_Full	20.99	19.29	30.00	PASS
N70	15	15	DFT-256QAM	L	Inner_1RB_Left	19.05	17.35	30.00	PASS
N70	15	15	DFT-256QAM	L	Inner_1RB_Right	18.91	17.21	30.00	PASS
N70	15	15	DFT-256QAM	L	Outer_Full	19.05	17.35	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	23.42	21.72	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	23.51	21.81	30.00	PASS



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N70	15	15	DFT-PI2BPSK	M	Outer_Full	23.17	21.47	30.00	PASS
N70	15	15	DFT-QPSK	M	Inner_1RB_Left	23.84	22.14	30.00	PASS
N70	15	15	DFT-QPSK	M	Inner_1RB_Right	23.82	22.12	30.00	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	22.42	20.72	30.00	PASS
N70	15	15	DFT-16QAM	M	Inner_1RB_Left	22.31	20.61	30.00	PASS
N70	15	15	DFT-16QAM	M	Inner_1RB_Right	22.41	20.71	30.00	PASS
N70	15	15	DFT-16QAM	M	Outer_Full	20.96	19.26	30.00	PASS
N70	15	15	DFT-64QAM	M	Inner_1RB_Left	21.08	19.38	30.00	PASS
N70	15	15	DFT-64QAM	M	Inner_1RB_Right	20.85	19.15	30.00	PASS
N70	15	15	DFT-64QAM	M	Outer_Full	20.96	19.26	30.00	PASS
N70	15	15	DFT-256QAM	M	Inner_1RB_Left	19.10	17.40	30.00	PASS
N70	15	15	DFT-256QAM	M	Inner_1RB_Right	18.94	17.24	30.00	PASS
N70	15	15	DFT-256QAM	M	Outer_Full	18.76	17.06	30.00	PASS
N70	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	23.54	21.84	30.00	PASS
N70	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	23.34	21.64	30.00	PASS
N70	15	15	DFT-PI2BPSK	H	Outer_Full	22.97	21.27	30.00	PASS
N70	15	15	DFT-QPSK	H	Inner_1RB_Left	23.74	22.04	30.00	PASS
N70	15	15	DFT-QPSK	H	Inner_1RB_Right	23.84	22.14	30.00	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	22.44	20.74	30.00	PASS
N70	15	15	DFT-16QAM	H	Inner_1RB_Left	22.38	20.68	30.00	PASS
N70	15	15	DFT-16QAM	H	Inner_1RB_Right	22.33	20.63	30.00	PASS
N70	15	15	DFT-16QAM	H	Outer_Full	21.01	19.31	30.00	PASS
N70	15	15	DFT-64QAM	H	Inner_1RB_Left	20.92	19.22	30.00	PASS
N70	15	15	DFT-64QAM	H	Inner_1RB_Right	21.00	19.30	30.00	PASS
N70	15	15	DFT-64QAM	H	Outer_Full	20.77	19.07	30.00	PASS
N70	15	15	DFT-256QAM	H	Inner_1RB_Left	18.82	17.12	30.00	PASS
N70	15	15	DFT-256QAM	H	Inner_1RB_Right	18.78	17.08	30.00	PASS
N70	15	15	DFT-256QAM	H	Outer_Full	18.81	17.11	30.00	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N70	15	15	DFT-256QAM	L	Outer_Full	8.81	≤13	PASS
N70	15	15	CP-256QAM	L	Outer_Full	9.70	≤13	PASS
N70	15	15	DFT-256QAM	M	Outer_Full	8.81	≤13	PASS
N70	15	15	CP-256QAM	M	Outer_Full	9.71	≤13	PASS
N70	15	15	DFT-256QAM	H	Outer_Full	8.74	≤13	PASS
N70	15	15	CP-256QAM	H	Outer_Full	9.64	≤13	PASS



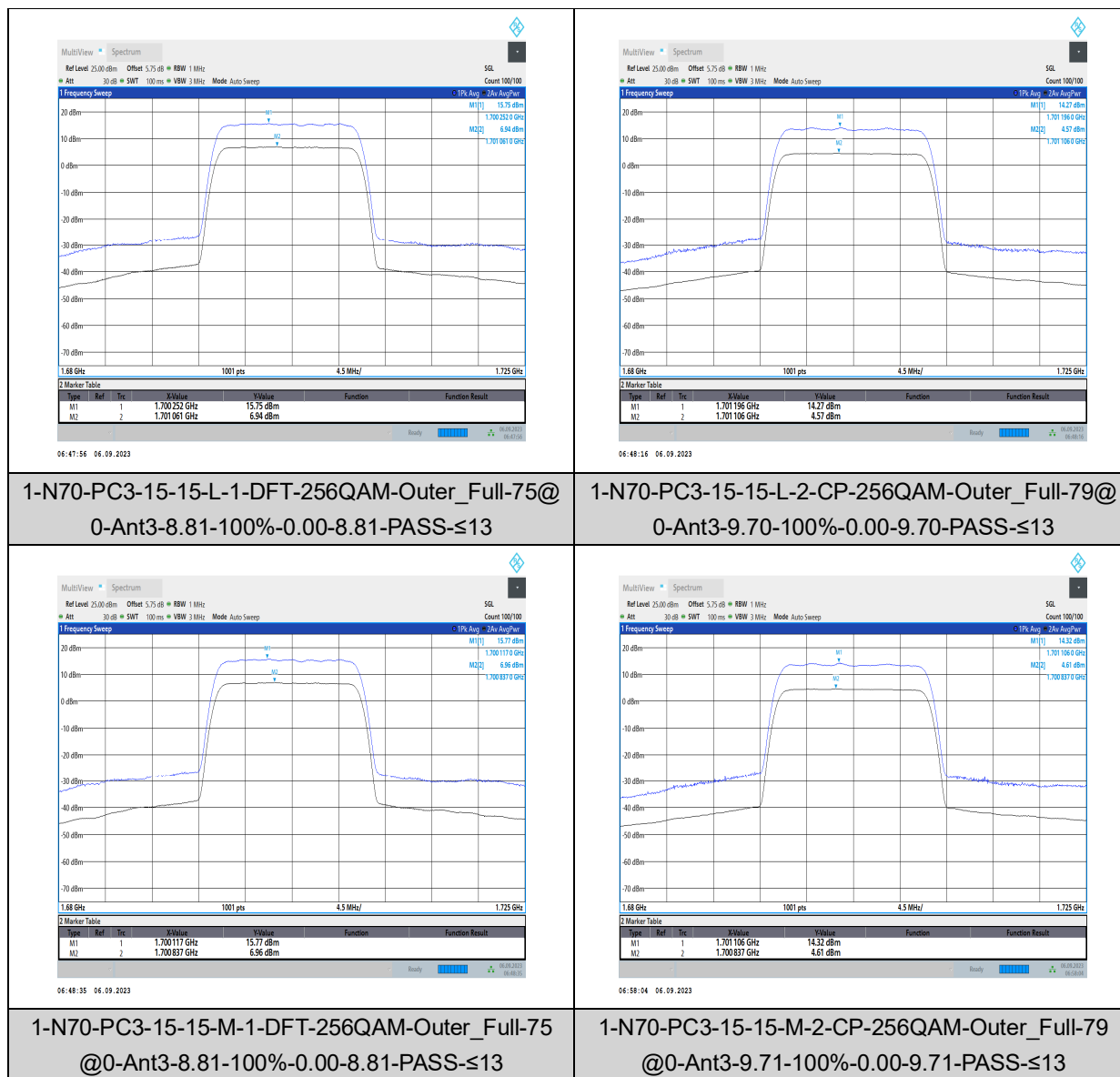
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Test Graphs



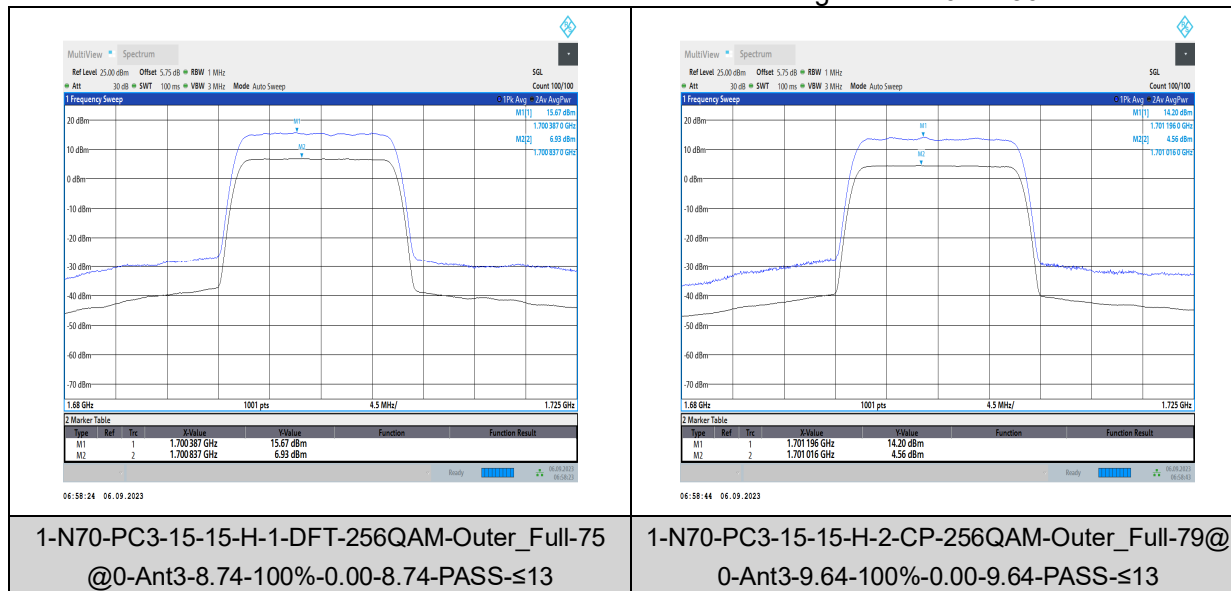
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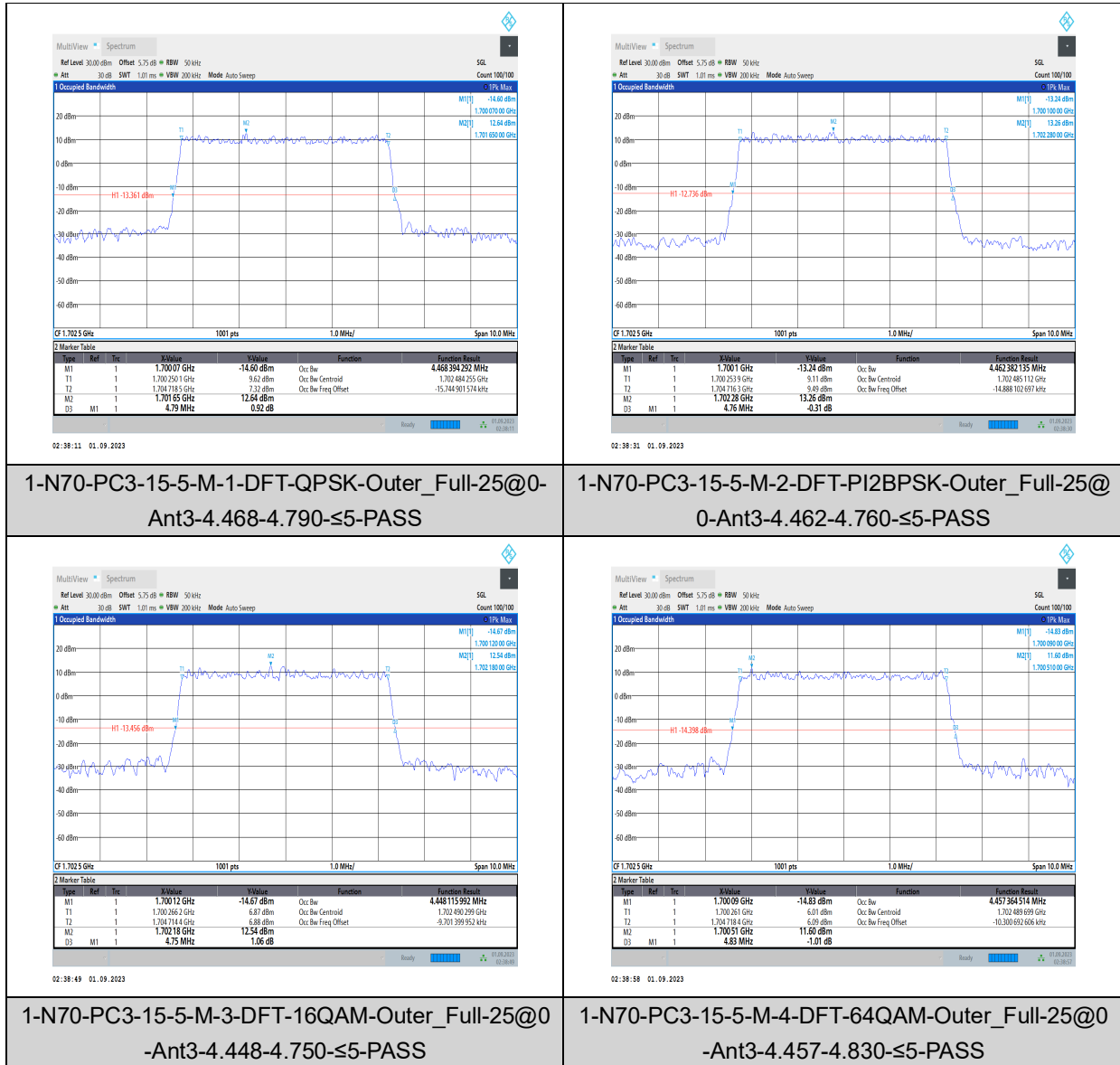
26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N70	15	5	DFT-QPSK	M	Outer_Full	4.468	4.790	PASS
N70	15	5	DFT-PI2BPSK	M	Outer_Full	4.462	4.760	PASS
N70	15	5	DFT-16QAM	M	Outer_Full	4.448	4.750	PASS
N70	15	5	DFT-64QAM	M	Outer_Full	4.457	4.830	PASS
N70	15	5	DFT-256QAM	M	Outer_Full	4.482	4.840	PASS
N70	15	5	CP-QPSK	M	Outer_Full	4.473	4.770	PASS
N70	15	5	CP-16QAM	M	Outer_Full	4.469	4.810	PASS
N70	15	5	CP-64QAM	M	Outer_Full	4.476	4.790	PASS
N70	15	5	CP-256QAM	M	Outer_Full	4.463	4.820	PASS
N70	15	10	DFT-QPSK	M	Outer_Full	8.908	9.340	PASS
N70	15	10	DFT-PI2BPSK	M	Outer_Full	8.896	9.340	PASS
N70	15	10	DFT-16QAM	M	Outer_Full	8.945	9.360	PASS
N70	15	10	DFT-64QAM	M	Outer_Full	8.929	9.380	PASS
N70	15	10	DFT-256QAM	M	Outer_Full	8.938	9.340	PASS
N70	15	10	CP-QPSK	M	Outer_Full	9.279	9.800	PASS
N70	15	10	CP-16QAM	M	Outer_Full	9.302	9.780	PASS
N70	15	10	CP-64QAM	M	Outer_Full	9.283	9.760	PASS
N70	15	10	CP-256QAM	M	Outer_Full	9.299	9.780	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	13.41	14.100	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	13.416	14.070	PASS
N70	15	15	DFT-16QAM	M	Outer_Full	13.452	14.160	PASS
N70	15	15	DFT-64QAM	M	Outer_Full	13.416	14.070	PASS
N70	15	15	DFT-256QAM	M	Outer_Full	13.41	14.040	PASS
N70	15	15	CP-QPSK	M	Outer_Full	14.119	14.820	PASS
N70	15	15	CP-16QAM	M	Outer_Full	14.094	14.790	PASS
N70	15	15	CP-64QAM	M	Outer_Full	14.092	14.850	PASS
N70	15	15	CP-256QAM	M	Outer_Full	14.082	14.790	PASS



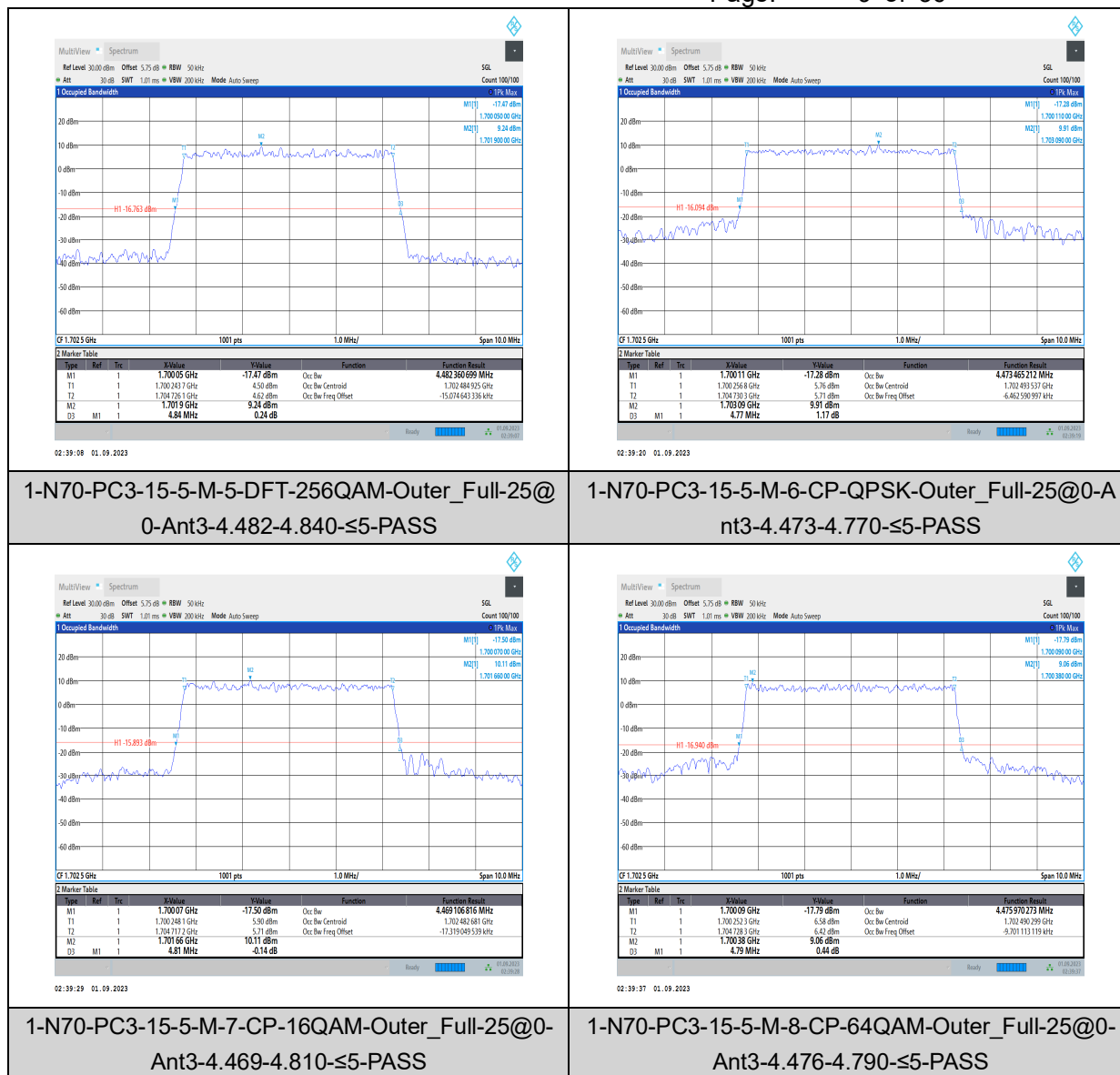
Test Graphs



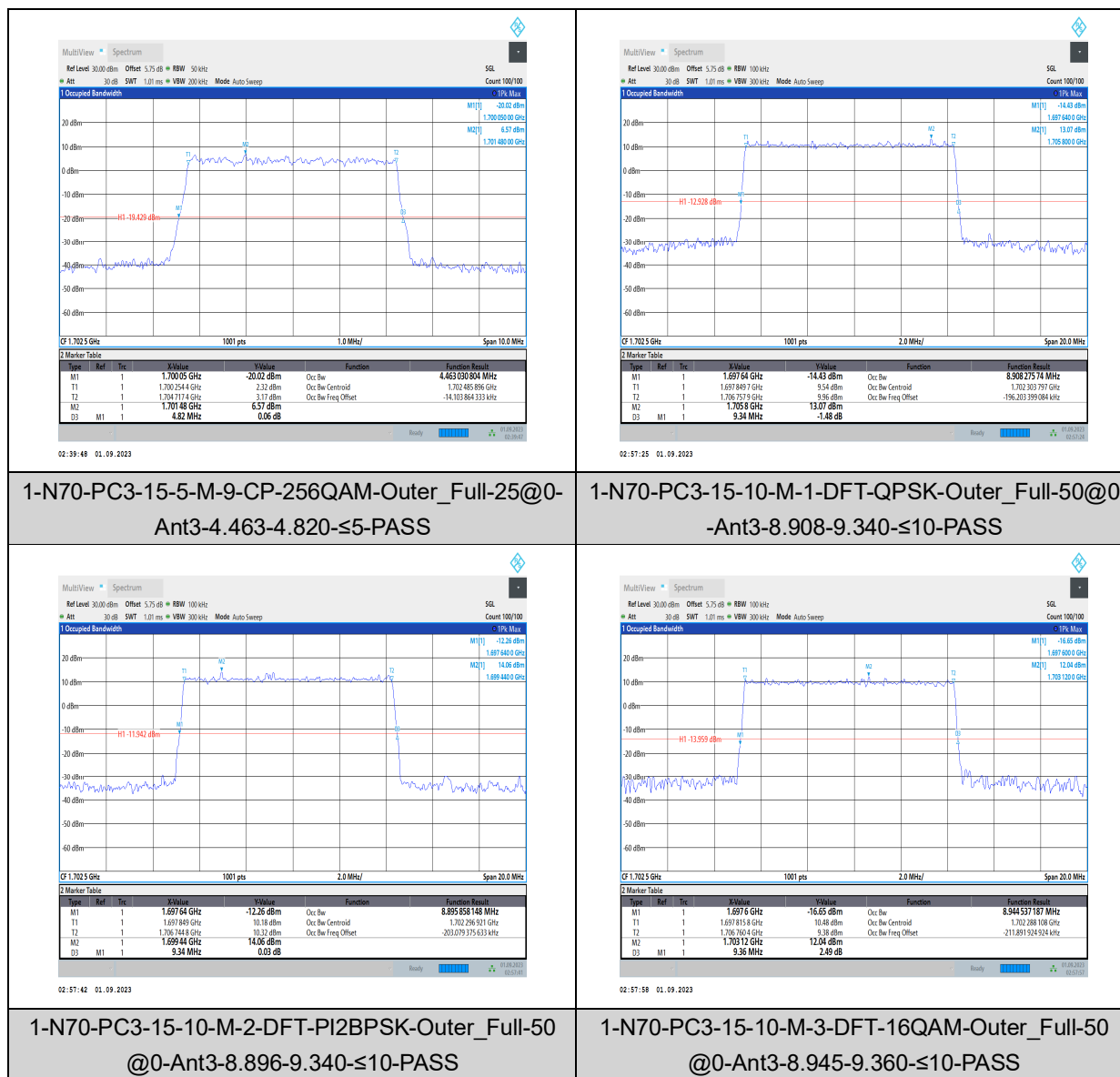
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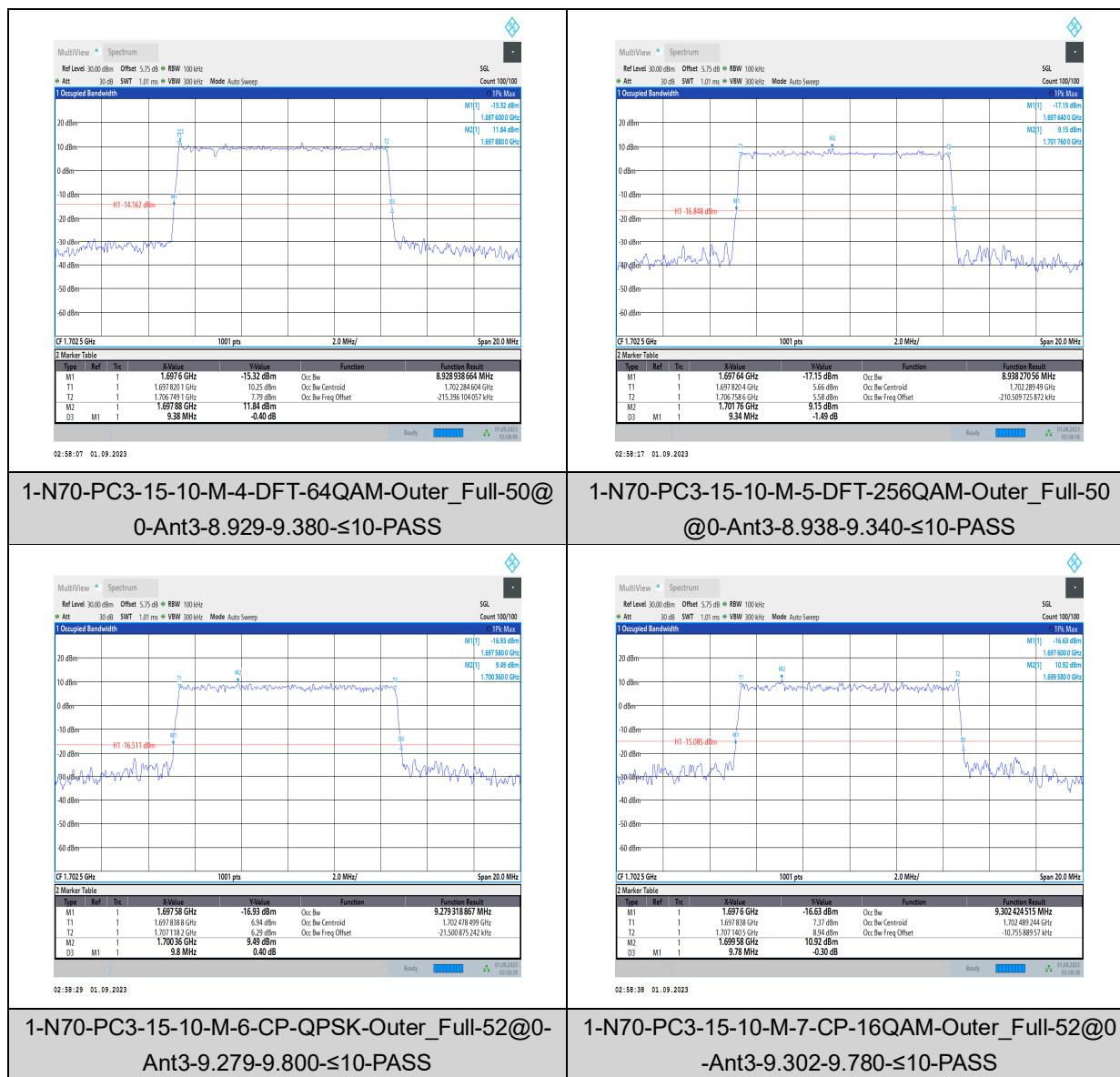
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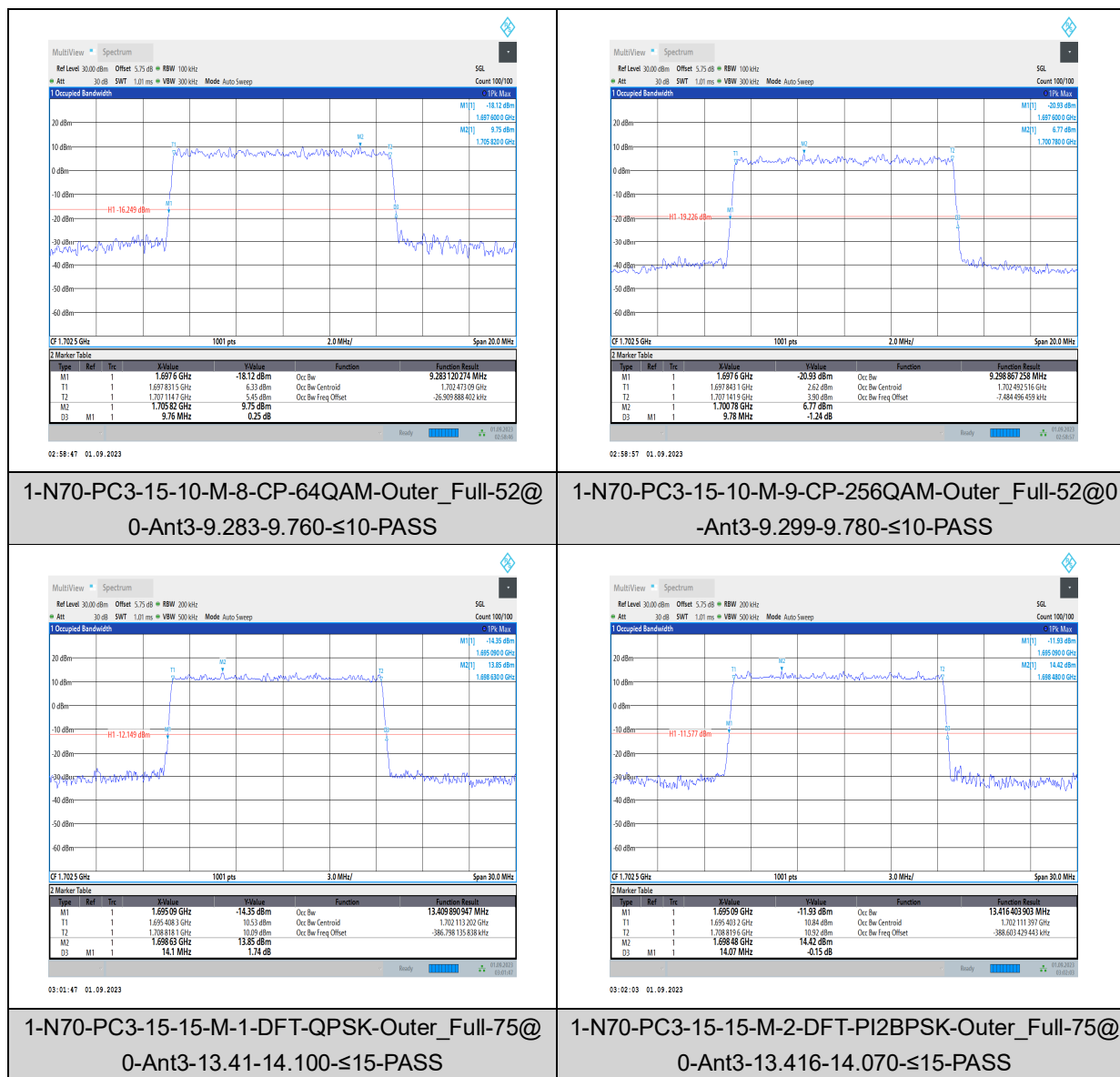
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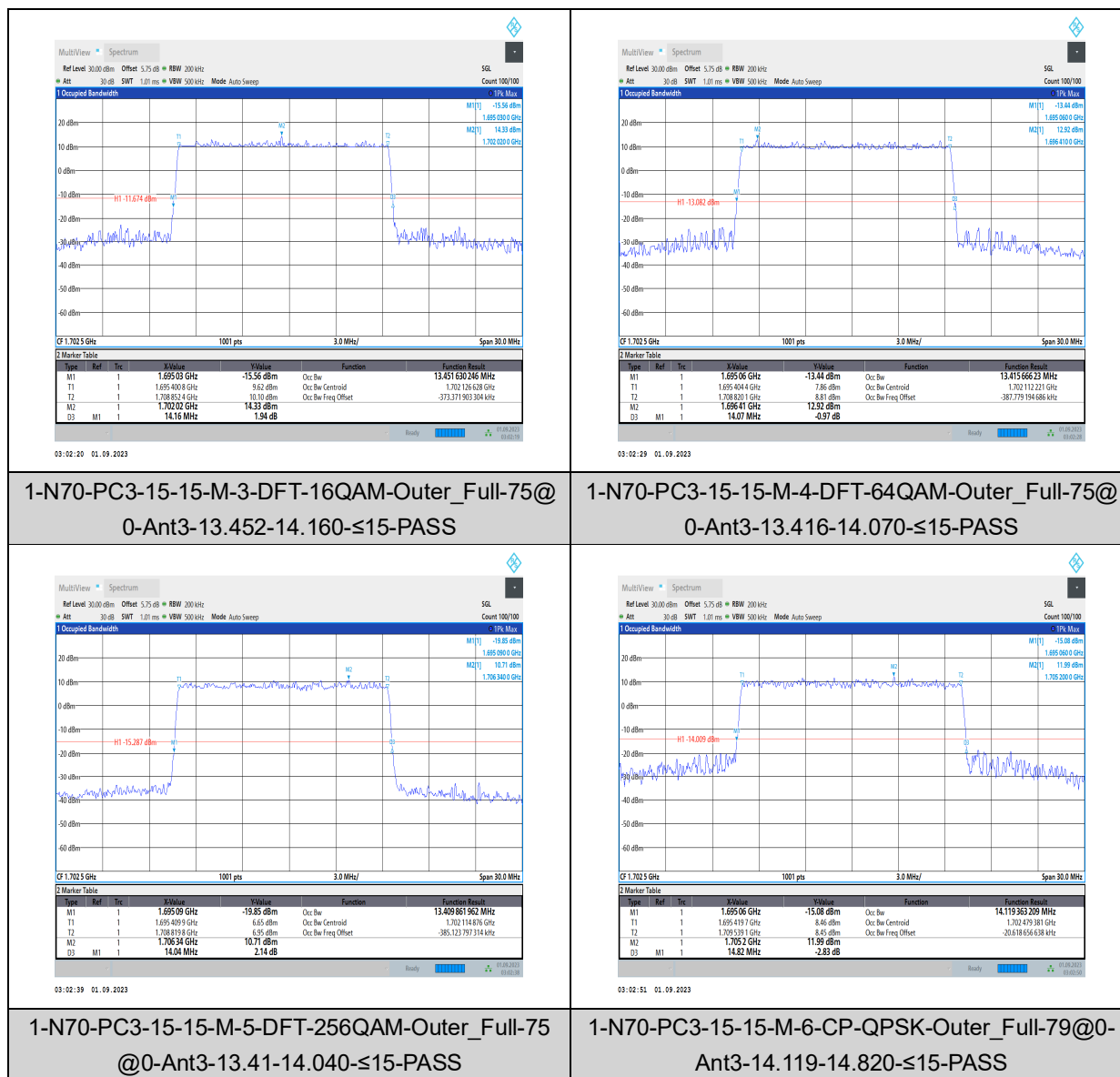


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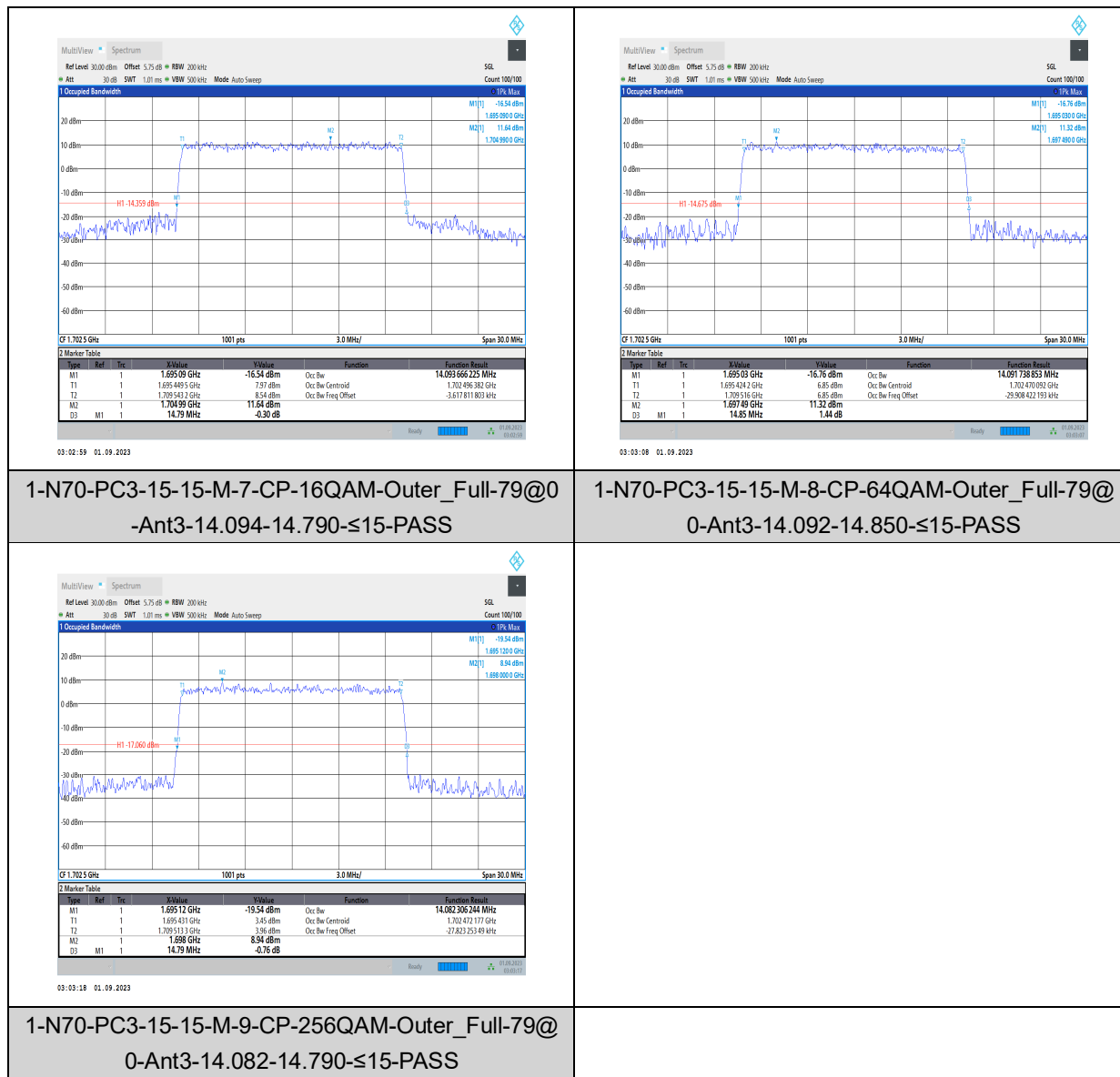
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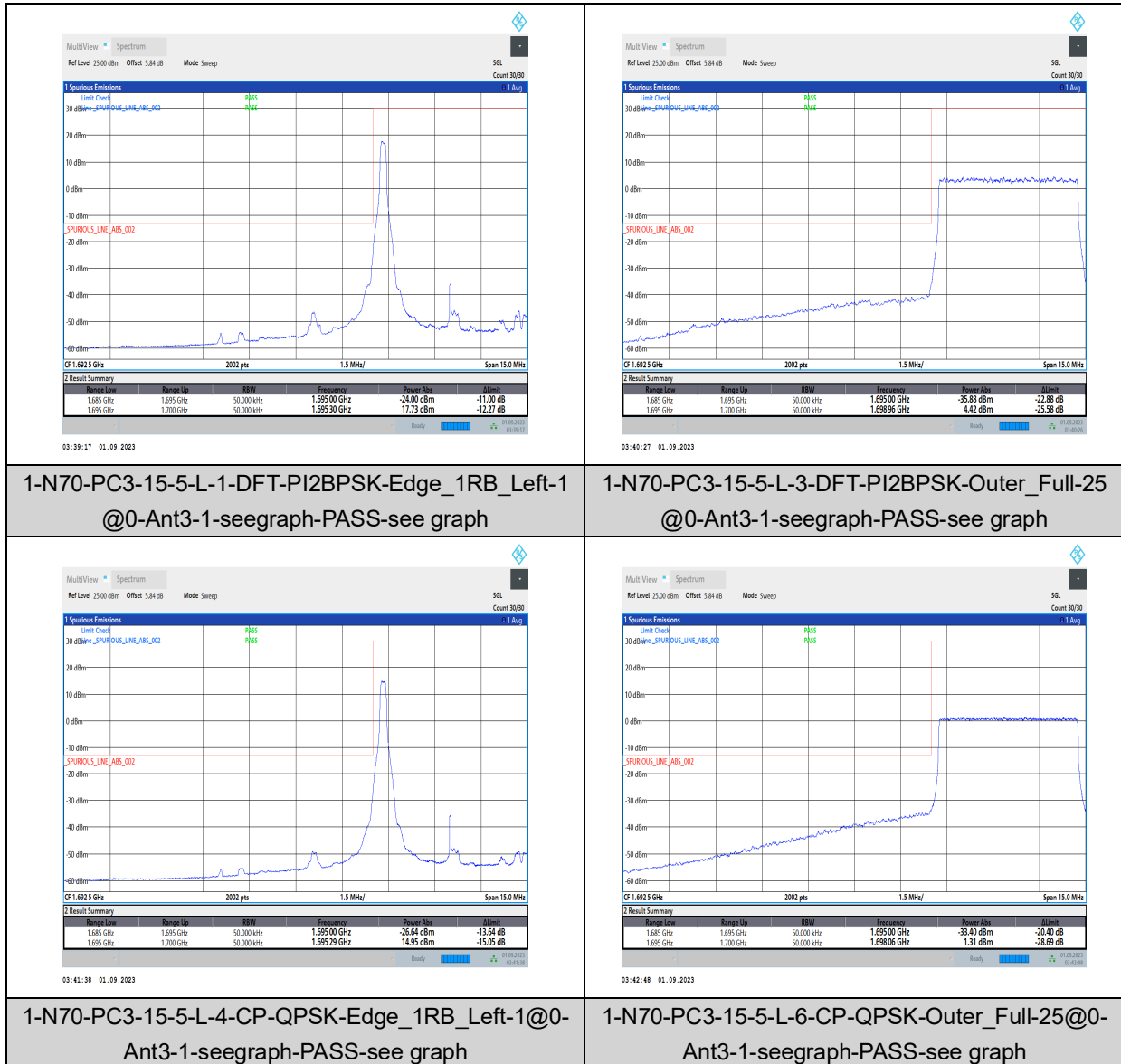
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Band Edge for SA

Test Graphs



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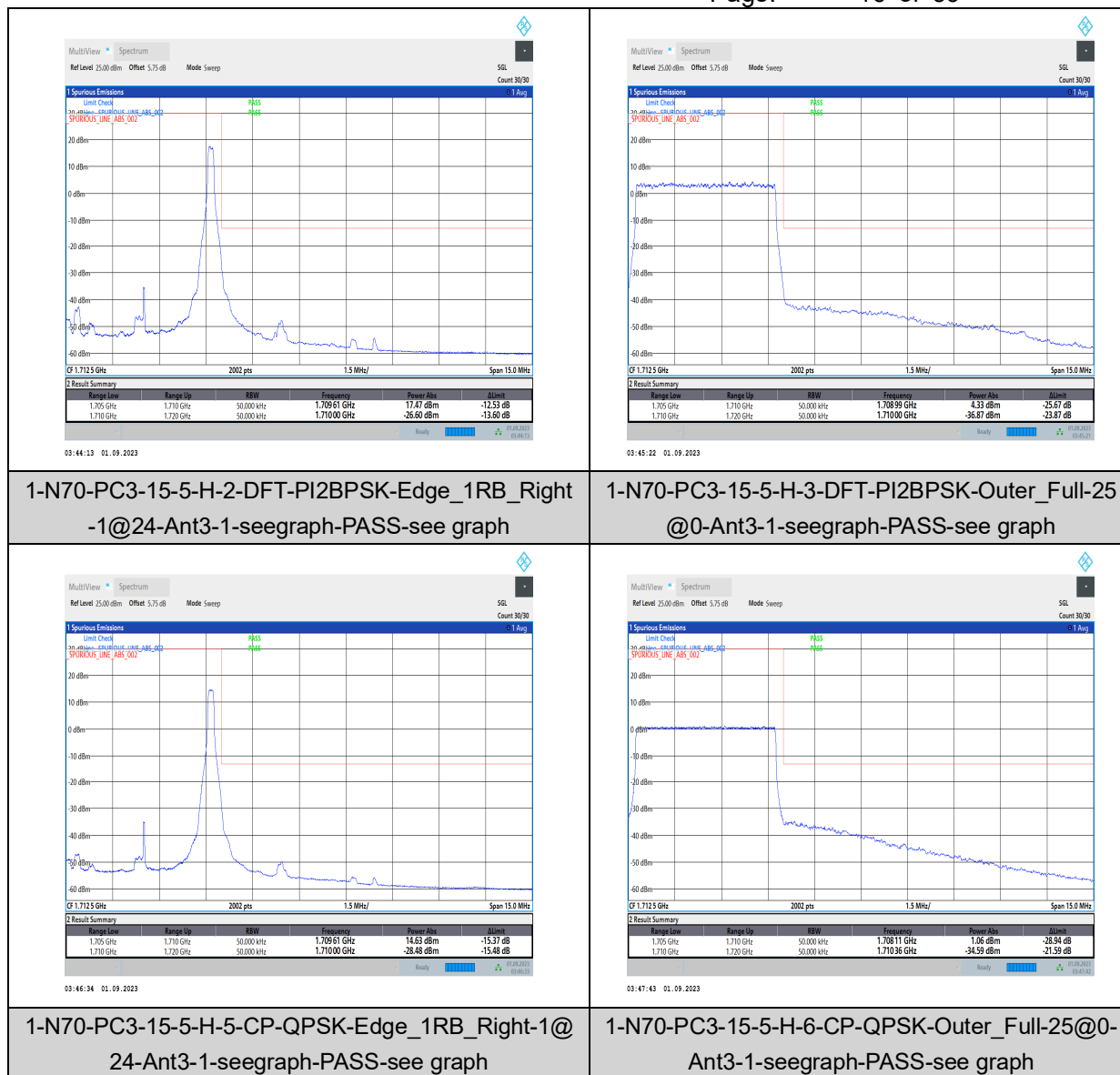
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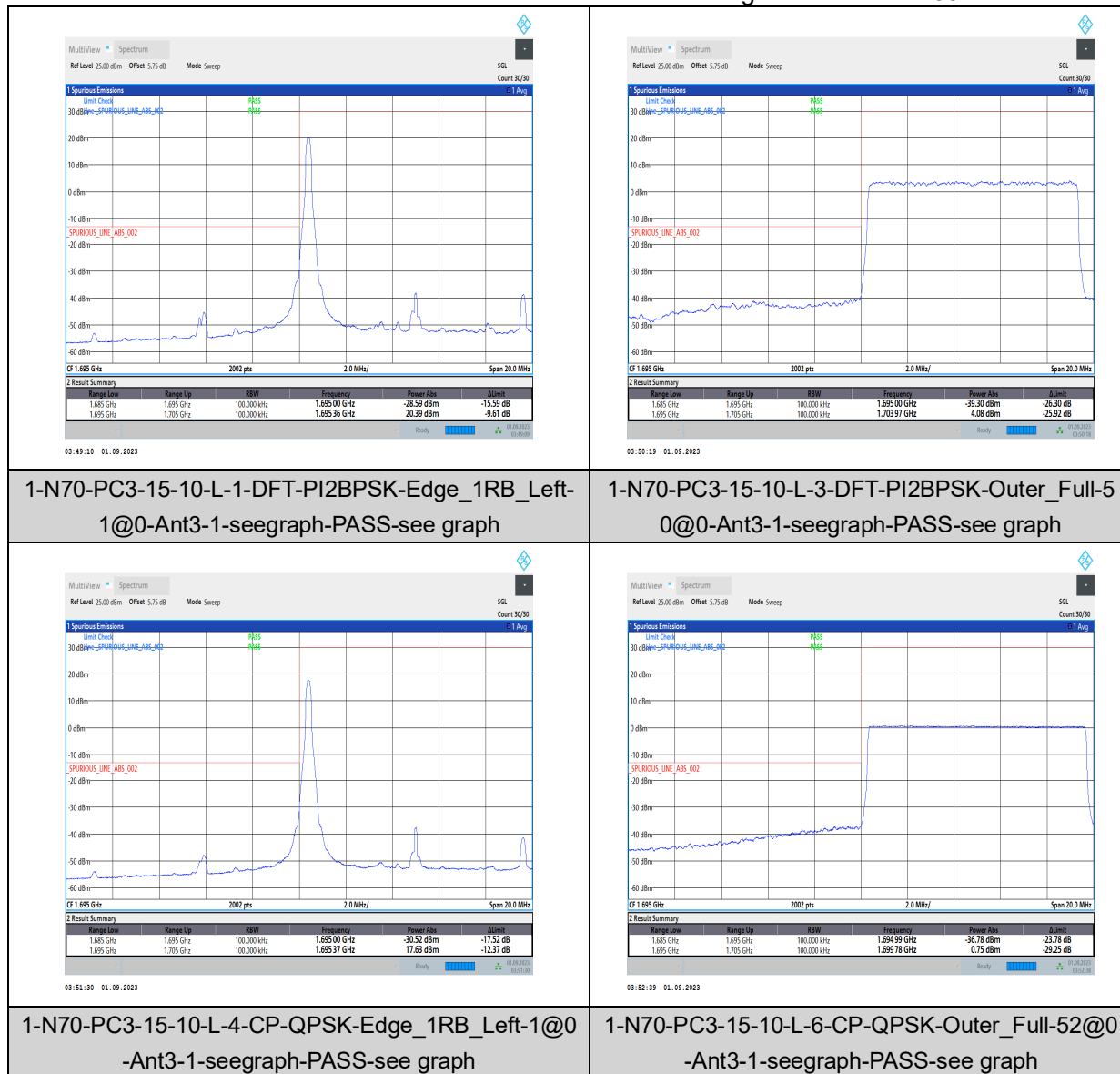
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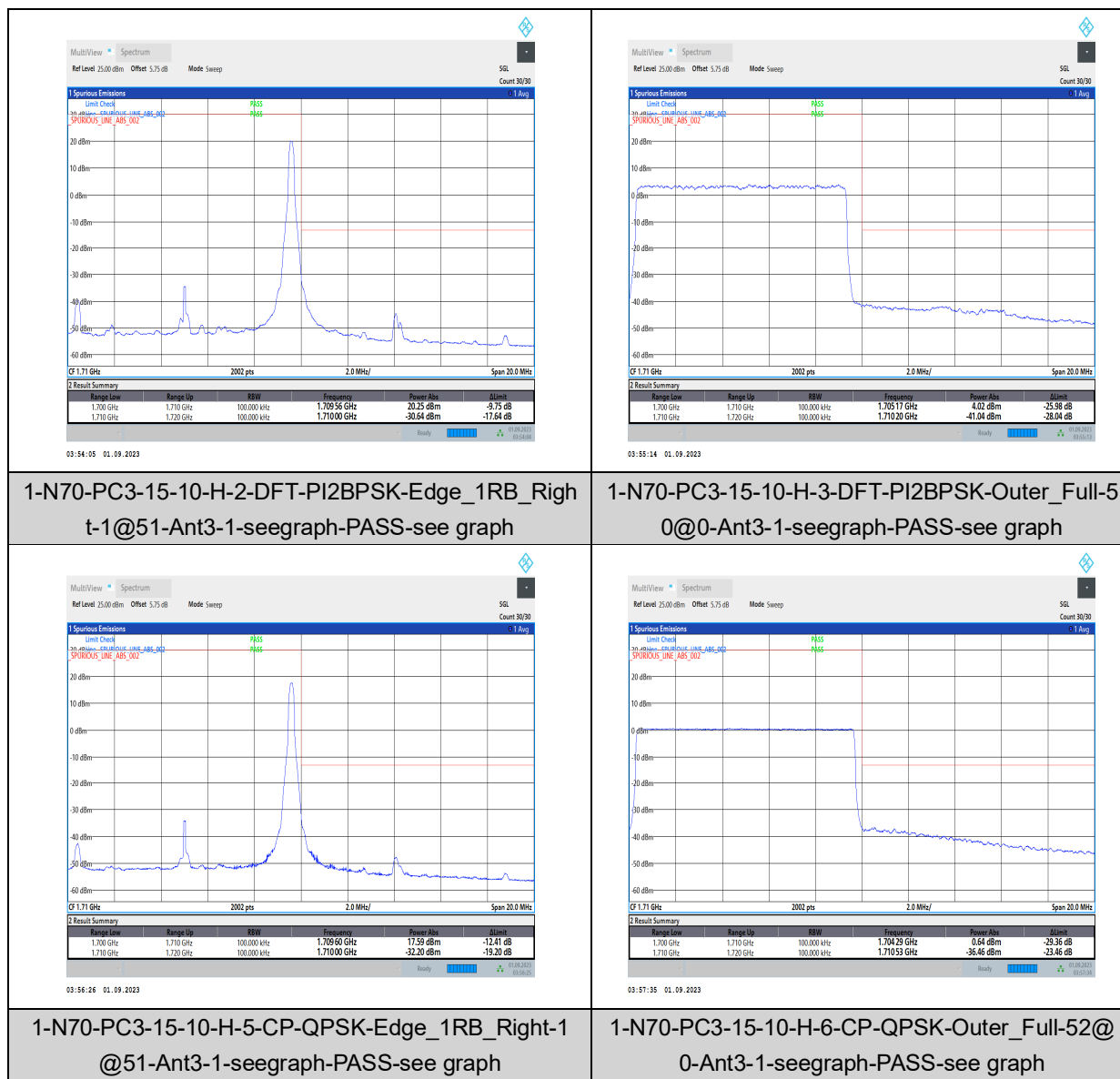
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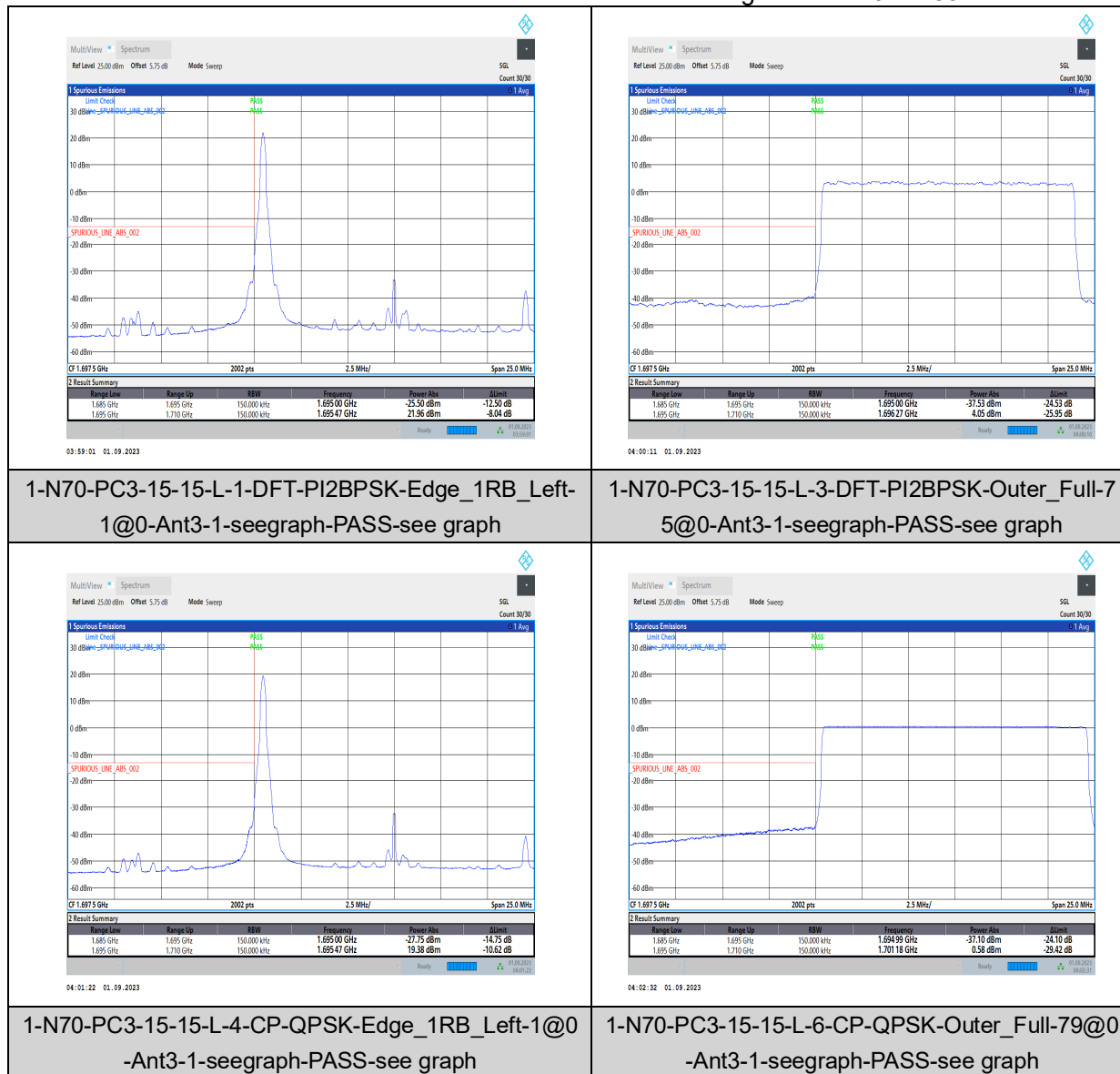
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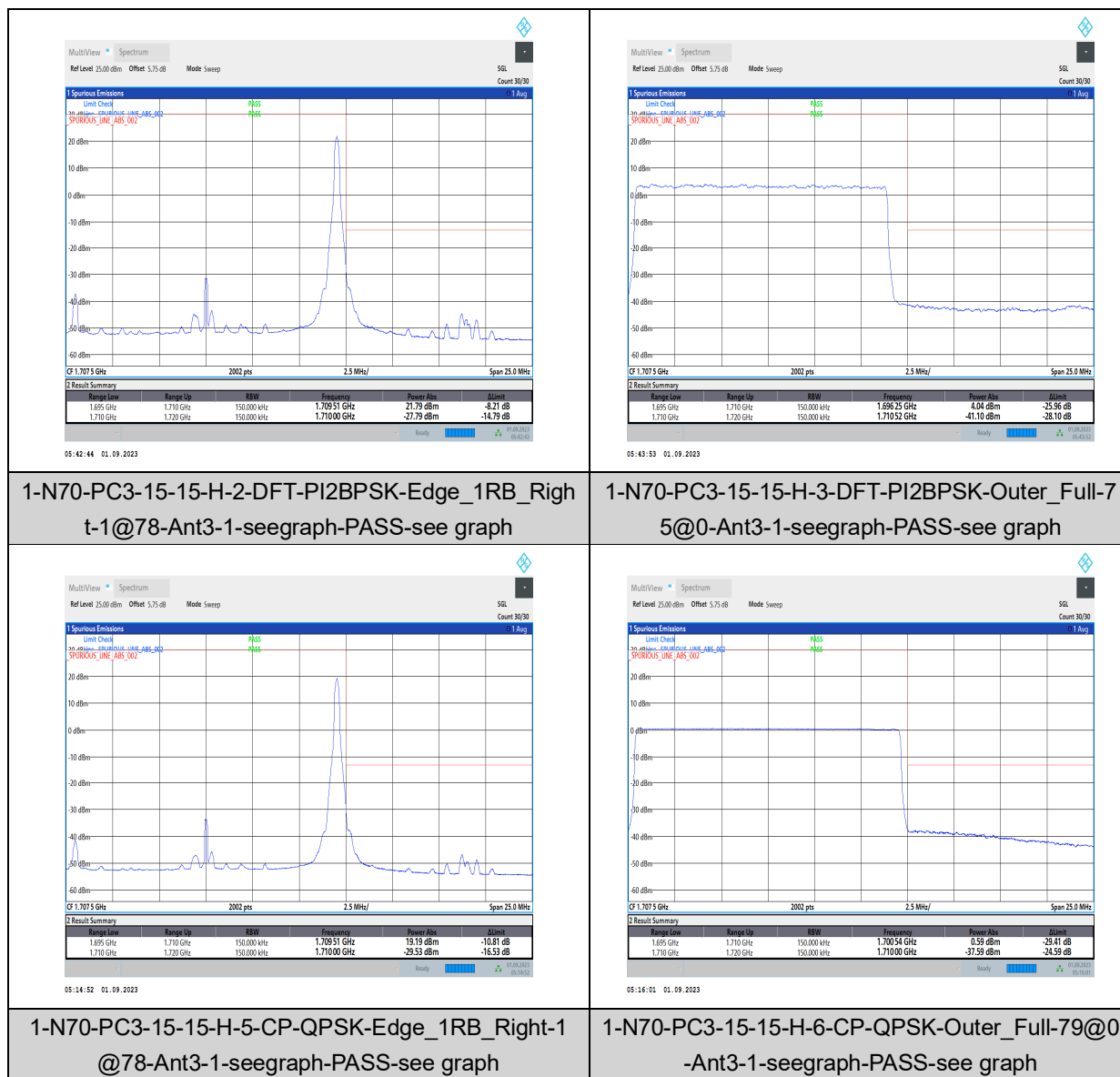
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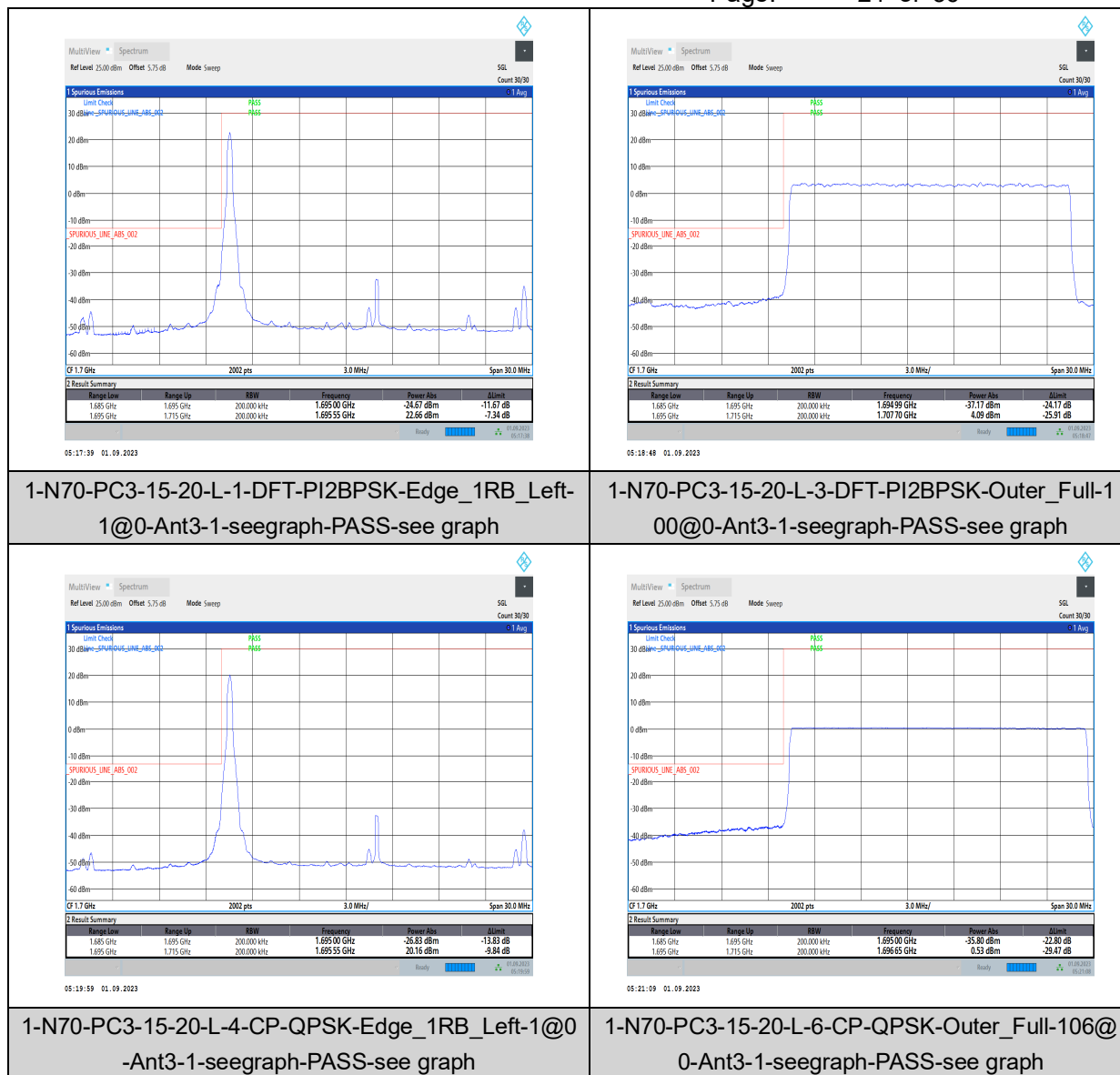
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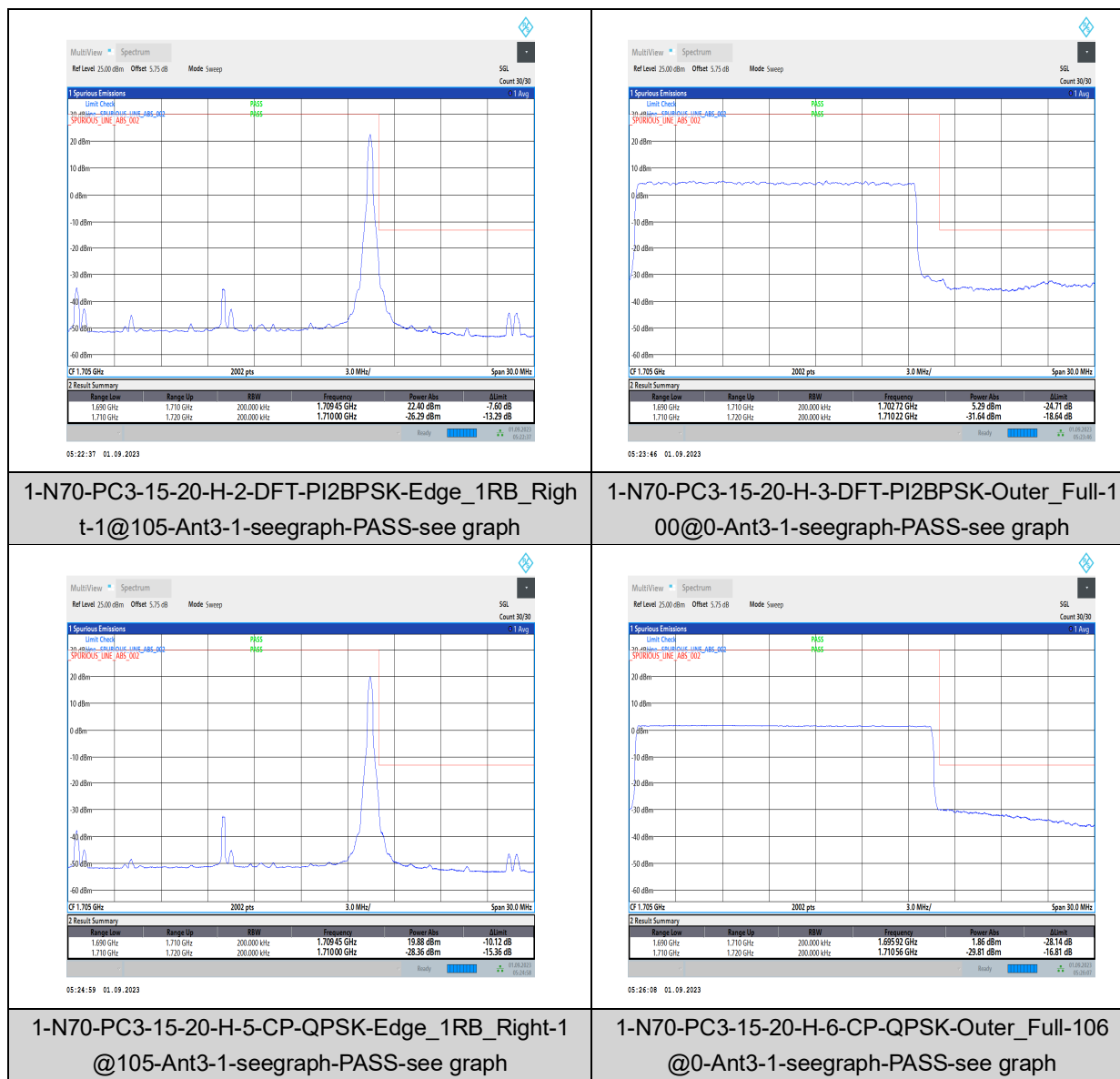
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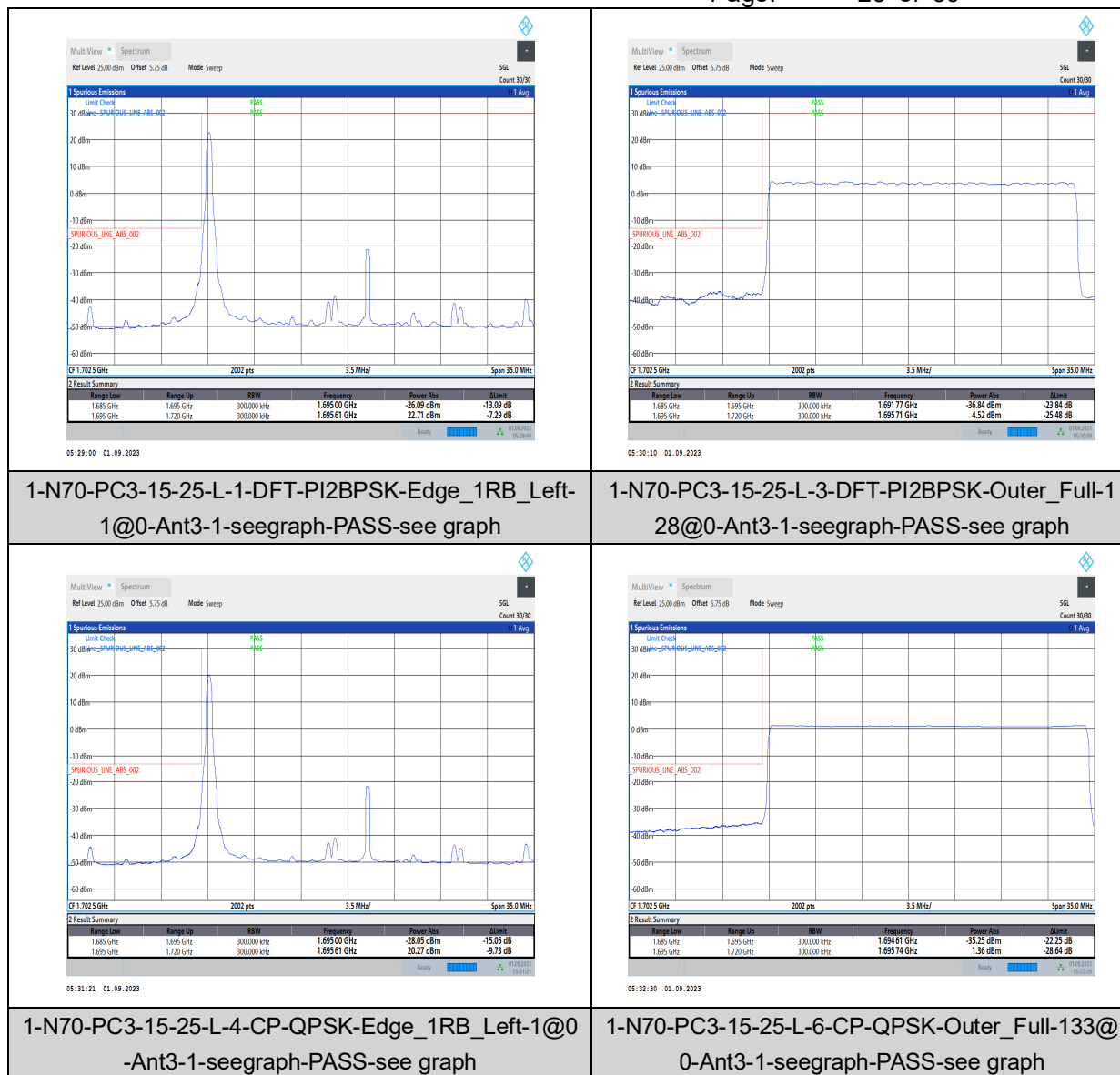
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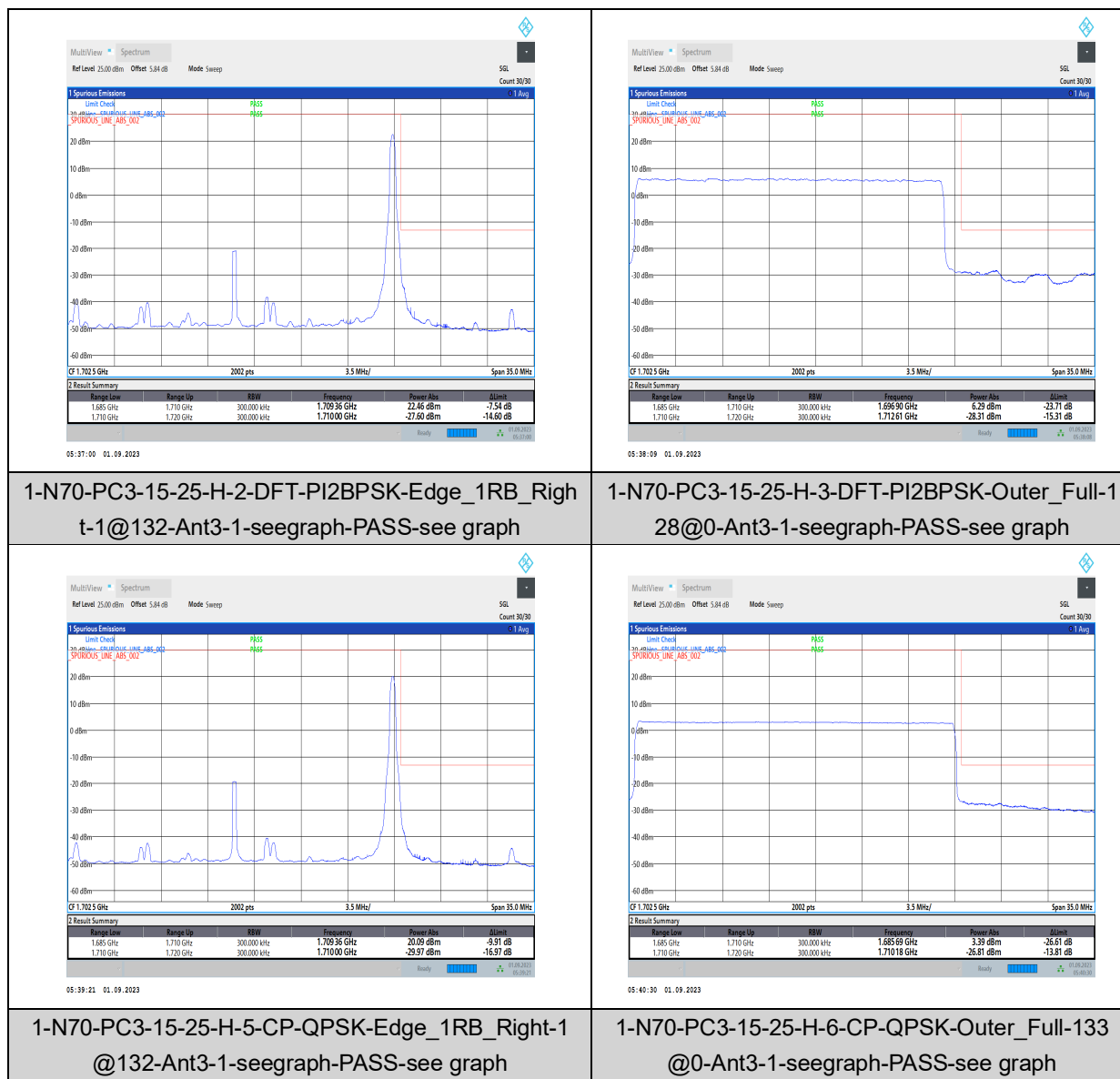
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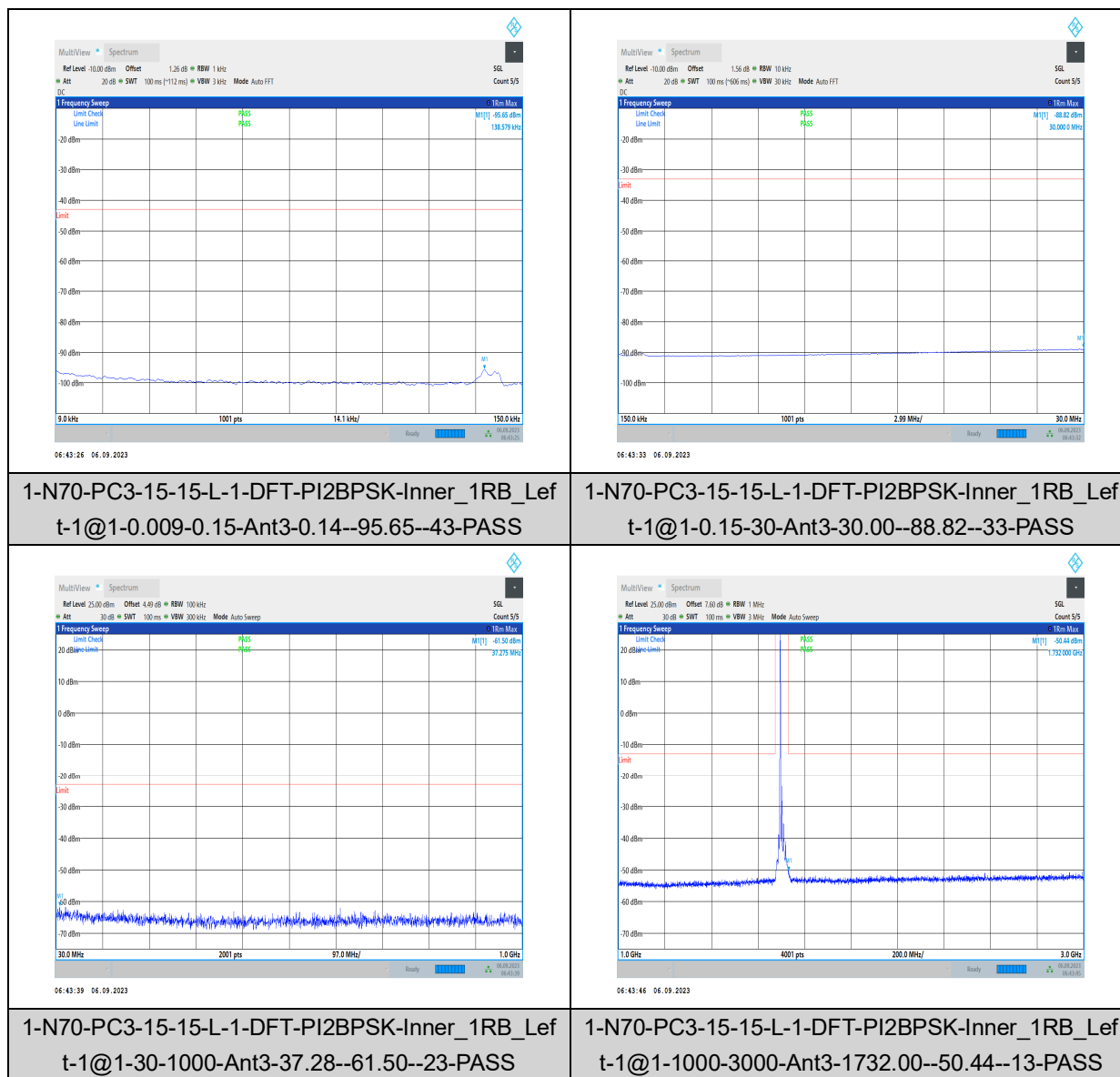
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Conducted Spurious Emission for SA

Test Graphs



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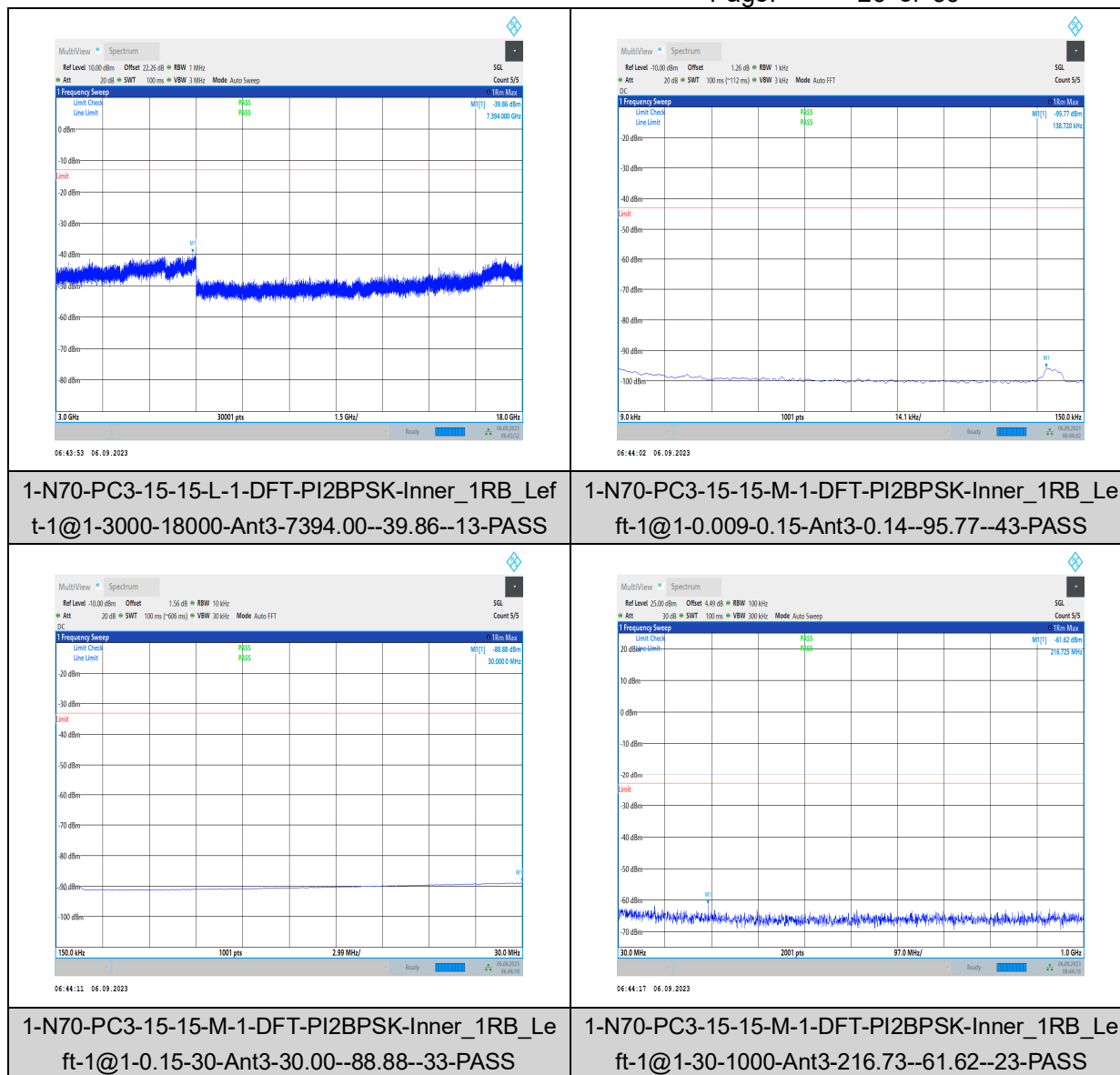
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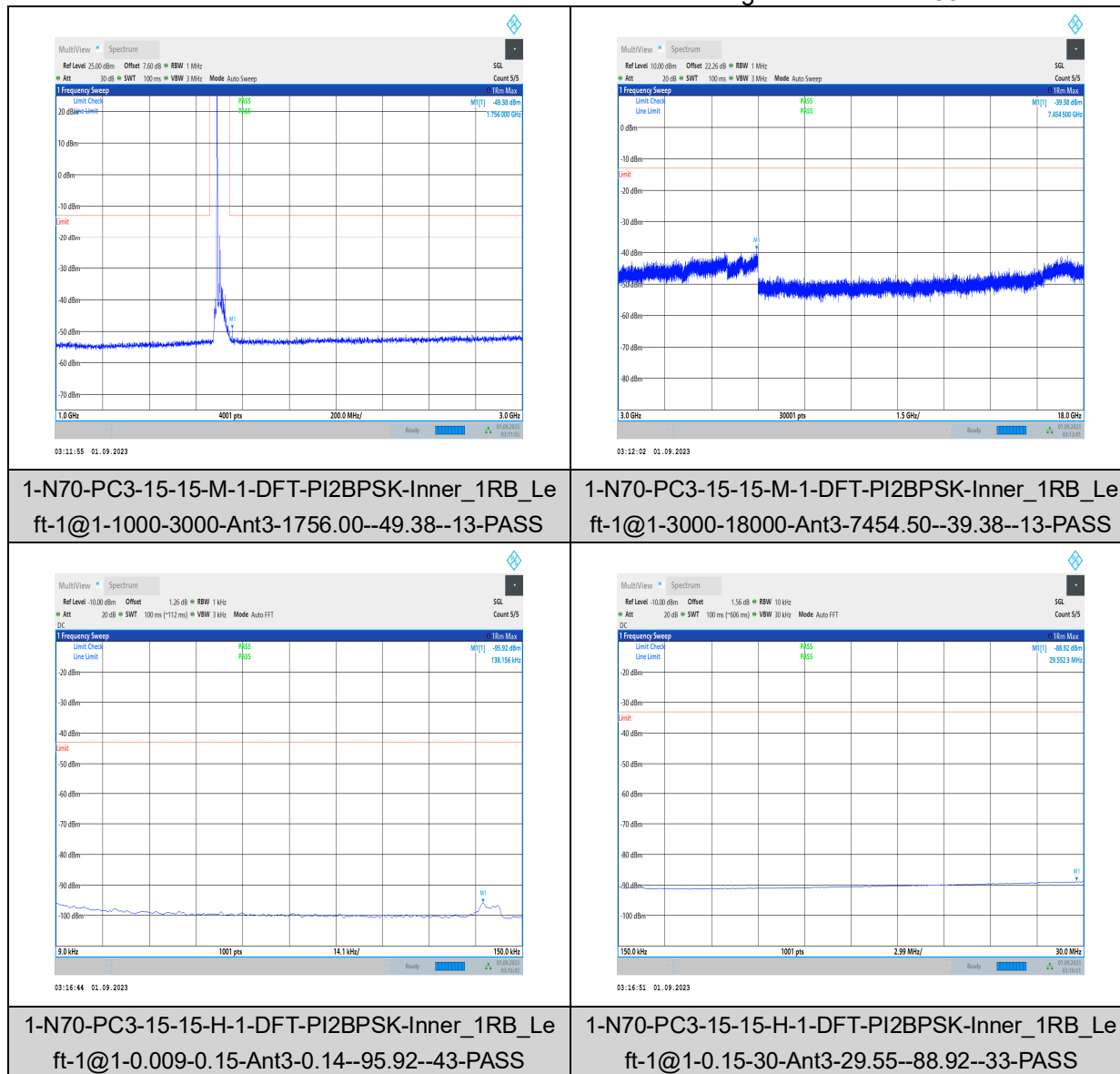
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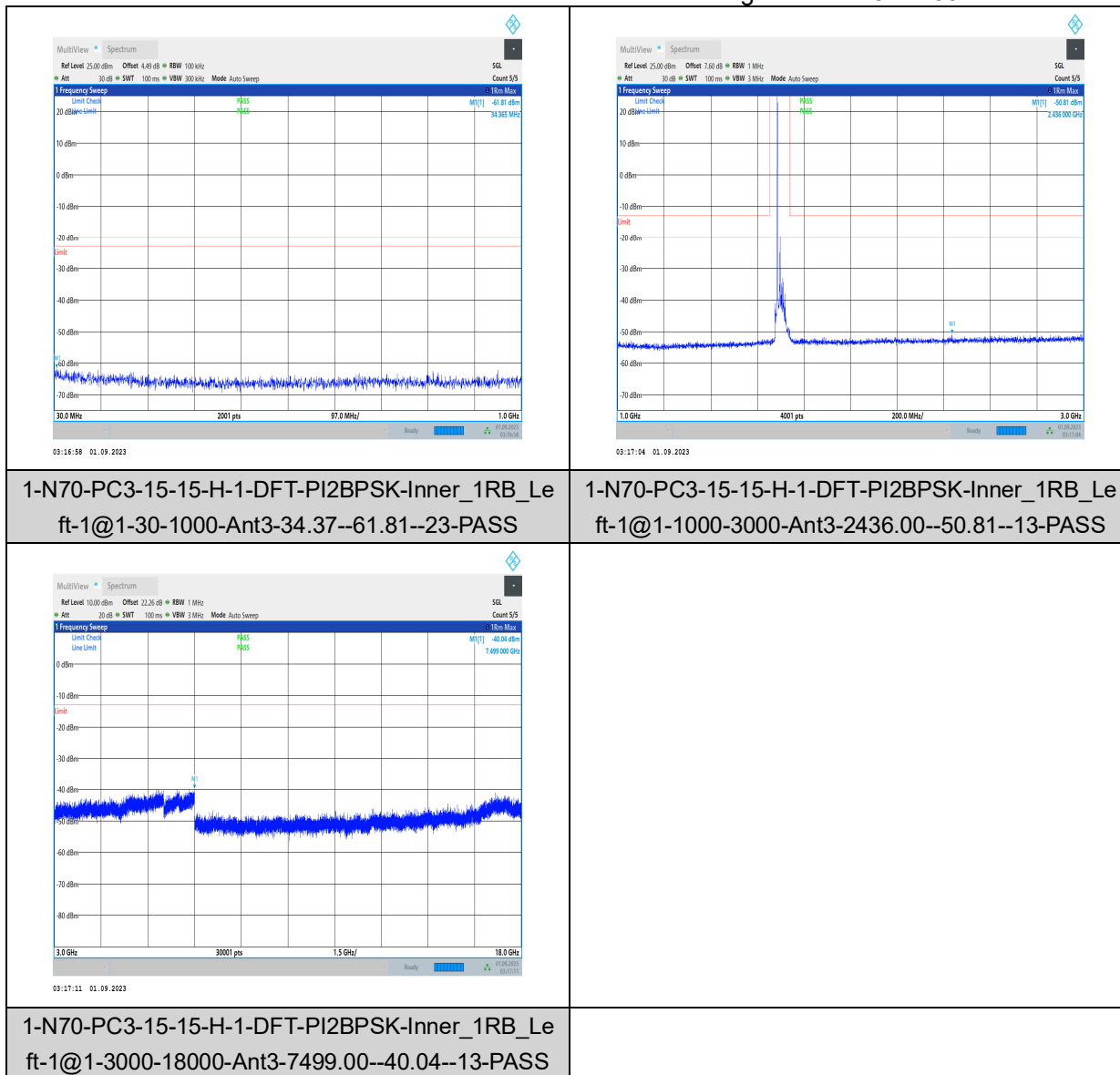
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Field Strength of Spurious Radiation

Test Band = SA Band70_15MHz_ 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	3403.5	42.28	-46.28	28.54	-70.72	-13.00	57.72	Horizontal
2	4353.75	41.27	-45.69	29.95	-69.73	-13.00	56.73	Horizontal
3	4917.75	41.80	-45.55	31.22	-67.79	-13.00	54.79	Horizontal
4	6337.5	39.96	-44.49	33.78	-66.01	-13.00	53.01	Horizontal
5	7649.25	38.93	-43.02	36.66	-62.69	-13.00	49.69	Horizontal
6	11238	31.35	-37.40	38.72	-62.59	-13.00	49.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3246	42.43	-46.07	28.45	-70.45	-13.00	57.45	Vertical
2	4484.25	40.93	-45.73	30.26	-69.80	-13.00	56.80	Vertical
3	5705.25	40.36	-44.84	32.64	-67.10	-13.00	54.10	Vertical
4	7385.25	39.34	-43.46	36.28	-63.10	-13.00	50.10	Vertical
5	10022.25	33.21	-39.21	38.21	-63.05	-13.00	50.05	Vertical
6	11805	28.47	-36.95	38.78	-64.96	-13.00	51.96	Vertical



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Test Band = SA Band70_15MHz_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	4872	41.53	-45.53	31.12	-68.14	-13.00	55.14	Horizontal
2	6159	39.68	-44.63	33.21	-67.00	-13.00	54.00	Horizontal
3	7211.25	39.05	-43.46	35.79	-63.88	-13.00	50.88	Horizontal
4	8710.5	36.66	-41.64	36.44	-63.80	-13.00	50.80	Horizontal
5	11148.75	31.57	-37.69	38.71	-62.66	-13.00	49.66	Horizontal
6	13469.25	28.87	-36.80	39.94	-63.25	-13.00	50.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4946.25	41.39	-45.58	31.28	-68.17	-13.00	55.17	Vertical
2	5841.75	40.55	-44.84	32.67	-66.88	-13.00	53.88	Vertical
3	7138.5	39.50	-43.91	35.59	-64.08	-13.00	51.08	Vertical
4	8423.25	37.42	-41.49	36.59	-62.74	-13.00	49.74	Vertical
5	10941.75	30.48	-37.82	38.67	-63.93	-13.00	50.93	Vertical
6	13390.5	28.22	-36.36	39.80	-63.60	-13.00	50.60	Vertical



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Test Band = SA Band70_15MHz_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	3585	42.02	-46.15	28.69	-70.70	-13.00	57.70	Horizontal
2	4929.75	41.59	-45.56	31.25	-67.99	-13.00	54.99	Horizontal
3	5722.5	40.20	-44.83	32.64	-67.24	-13.00	54.24	Horizontal
4	7404.75	38.47	-43.40	36.33	-63.85	-13.00	50.85	Horizontal
5	8283	36.91	-42.06	36.66	-63.75	-13.00	50.75	Horizontal
6	11832.75	28.64	-36.99	38.78	-64.83	-13.00	51.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4264.5	41.46	-45.62	29.73	-69.69	-13.00	56.69	Vertical
2	5963.25	40.61	-44.88	32.69	-66.84	-13.00	53.84	Vertical
3	7416	39.07	-43.37	36.36	-63.19	-13.00	50.19	Vertical
4	8620.5	36.79	-41.40	36.49	-63.38	-13.00	50.38	Vertical
5	11961.75	28.92	-37.43	38.80	-64.97	-13.00	51.97	Vertical
6	14622	28.22	-35.15	41.15	-61.04	-13.00	48.04	Vertical



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Test Band = NRCA_N26A_N70A_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	1324.5714	44.79	-48.10	25.14	-73.43	-13.00	60.43	Horizontal
2	1732.5714	43.69	-48.09	25.40	-74.26	-13.00	61.26	Horizontal
3	2230.2857	43.28	-47.63	26.54	-73.06	-13.00	60.06	Horizontal
4	2877.1429	42.83	-46.65	28.05	-71.03	-13.00	58.03	Horizontal
5	3811.4286	41.62	-46.17	28.91	-70.90	-13.00	57.90	Horizontal
6	4590.8571	41.22	-45.77	30.50	-69.31	-13.00	56.31	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1626.2857	44.60	-48.25	25.24	-73.67	-13.00	60.67	Vertical
2	2179.4286	44.08	-47.69	26.40	-72.46	-13.00	59.46	Vertical
3	2723.4286	44.15	-47.02	27.75	-70.38	-13.00	57.38	Vertical
4	3196	43.23	-46.31	28.42	-69.92	-13.00	56.92	Vertical
5	4606.2857	41.94	-45.79	30.53	-68.58	-13.00	55.58	Vertical
6	6308	40.59	-44.62	33.69	-65.60	-13.00	52.60	Vertical



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Test Band = NRCA_N26A_N70A_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	1412.5714	43.70	-48.04	25.11	-74.49	-13.00	61.49	Horizontal
2	1765.1429	43.47	-48.02	25.45	-74.37	-13.00	61.37	Horizontal
3	1996.5714	42.80	-47.91	25.89	-74.47	-13.00	61.47	Horizontal
4	2578.8571	42.91	-47.00	27.46	-71.89	-13.00	58.89	Horizontal
5	3174.2857	42.48	-46.41	28.40	-70.78	-13.00	57.78	Horizontal
6	4604	41.48	-45.79	30.53	-69.04	-13.00	56.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1176.5714	45.16	-48.50	25.21	-73.39	-13.00	60.39	Vertical
2	1639.4286	44.38	-48.23	25.26	-73.85	-13.00	60.85	Vertical
3	1849.7143	44.13	-48.00	25.60	-73.53	-13.00	60.53	Vertical
4	2248	44.12	-47.59	26.59	-72.14	-13.00	59.14	Vertical
5	3012.5714	43.44	-46.55	28.31	-70.06	-13.00	57.06	Vertical
6	4106.8571	42.14	-45.90	29.36	-69.67	-13.00	56.67	Vertical



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Test Band = NRCA_N26A_N70A_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	1462.8571	43.47	-48.20	25.13	-74.86	-13.00	61.86	Horizontal
2	1933.7143	43.09	-48.00	25.77	-74.40	-13.00	61.40	Horizontal
3	2536.5714	42.14	-47.15	27.37	-72.89	-13.00	59.89	Horizontal
4	3000.5714	42.35	-46.52	28.30	-71.13	-13.00	58.13	Horizontal
5	3968.5714	42.15	-46.21	29.07	-70.25	-13.00	57.25	Horizontal
6	5050.2857	41.24	-45.59	31.52	-68.09	-13.00	55.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1276.5714	45.23	-48.23	25.16	-73.10	-13.00	60.10	Vertical
2	1668	44.77	-48.20	25.30	-73.39	-13.00	60.39	Vertical
3	2086.2857	44.19	-47.74	26.14	-72.66	-13.00	59.66	Vertical
4	2732	43.89	-47.01	27.76	-70.61	-13.00	57.61	Vertical
5	3980	42.18	-46.21	29.08	-70.21	-13.00	57.21	Vertical
6	5425.1429	41.06	-45.01	32.42	-66.79	-13.00	53.79	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
N70	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.600000	-0.000940	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	0.600000	0.000352	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.300000	0.000176	PASS
N70	15	20	CP-QPSK	M	Outer_Full	VH	NT	0.400000	0.000235	PASS
N70	15	20	CP-QPSK	M	Outer_Full	VN	NT	2.000000	0.001175	PASS
N70	15	20	CP-QPSK	M	Outer_Full	VL	NT	1.100000	0.000646	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
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.900000	-0.001116	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-0.700000	-0.000411	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	0.900000	0.000529	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	2.200000	0.001292	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-0.300000	-0.000176	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	3.000000	0.001762	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	2.200000	0.001292	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	3.000000	0.001762	PASS
N70	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	2.700000	0.001586	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	-30	-1.800000	-0.001057	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	-20	2.200000	0.001292	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	-10	2.000000	0.001175	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	0	-1.600000	-0.000940	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	10	-1.500000	-0.000881	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	20	1.400000	0.000822	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	30	-0.600000	-0.000352	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	40	0.400000	0.000235	PASS
N70	15	20	CP-QPSK	M	Outer_Full	NV	50	1.500000	0.000881	PASS

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