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Appendix B.22

NR Band n38



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT11

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N38	30	20	DFT-QPSK	L	Inner_1RB_Left	22.92	22.17	33.00	PASS
N38	30	20	DFT-16QAM	L	Inner_1RB_Left	22.20	21.45	33.00	PASS
N38	30	20	DFT-QPSK	M	Inner_1RB_Left	22.92	22.17	33.00	PASS
N38	30	20	DFT-16QAM	M	Inner_1RB_Left	22.21	21.46	33.00	PASS
N38	30	20	DFT-QPSK	H	Inner_1RB_Left	23.03	22.28	33.00	PASS
N38	30	20	DFT-16QAM	H	Inner_1RB_Left	22.31	21.56	33.00	PASS
N38	30	30	DFT-QPSK	L	Inner_1RB_Left	23.08	22.33	33.00	PASS
N38	30	30	DFT-16QAM	L	Inner_1RB_Left	22.40	21.65	33.00	PASS
N38	30	30	DFT-QPSK	M	Inner_1RB_Left	23.09	22.34	33.00	PASS
N38	30	30	DFT-16QAM	M	Inner_1RB_Left	22.38	21.63	33.00	PASS
N38	30	30	DFT-QPSK	H	Inner_1RB_Left	23.13	22.38	33.00	PASS
N38	30	30	DFT-16QAM	H	Inner_1RB_Left	22.41	21.66	33.00	PASS
N38	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.02	22.27	33.00	PASS
N38	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	23.10	22.35	33.00	PASS
N38	30	40	DFT-PI2BPSK	L	Outer_Full	22.60	21.85	33.00	PASS
N38	30	40	DFT-QPSK	L	Inner_1RB_Left	23.10	22.35	33.00	PASS
N38	30	40	DFT-QPSK	L	Inner_1RB_Right	23.23	22.48	33.00	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	22.11	21.36	33.00	PASS
N38	30	40	DFT-16QAM	L	Inner_1RB_Left	22.25	21.50	33.00	PASS
N38	30	40	DFT-16QAM	L	Inner_1RB_Right	22.36	21.61	33.00	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	21.12	20.37	33.00	PASS
N38	30	40	DFT-64QAM	L	Inner_1RB_Left	20.46	19.71	33.00	PASS
N38	30	40	DFT-64QAM	L	Inner_1RB_Right	20.51	19.76	33.00	PASS
N38	30	40	DFT-64QAM	L	Outer_Full	20.58	19.83	33.00	PASS
N38	30	40	DFT-256QAM	L	Inner_1RB_Left	18.81	18.06	33.00	PASS
N38	30	40	DFT-256QAM	L	Inner_1RB_Right	18.93	18.18	33.00	PASS
N38	30	40	DFT-256QAM	L	Outer_Full	18.94	18.19	33.00	PASS
N38	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	23.01	22.26	33.00	PASS
N38	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	23.17	22.42	33.00	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	22.59	21.84	33.00	PASS
N38	30	40	DFT-QPSK	M	Inner_1RB_Left	23.08	22.33	33.00	PASS



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N38	30	40	DFT-QPSK	M	Inner_1RB_Right	23.20	22.45	33.00	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	22.08	21.33	33.00	PASS
N38	30	40	DFT-16QAM	M	Inner_1RB_Left	22.28	21.53	33.00	PASS
N38	30	40	DFT-16QAM	M	Inner_1RB_Right	22.43	21.68	33.00	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	21.12	20.37	33.00	PASS
N38	30	40	DFT-64QAM	M	Inner_1RB_Left	20.45	19.70	33.00	PASS
N38	30	40	DFT-64QAM	M	Inner_1RB_Right	20.64	19.89	33.00	PASS
N38	30	40	DFT-64QAM	M	Outer_Full	20.65	19.90	33.00	PASS
N38	30	40	DFT-256QAM	M	Inner_1RB_Left	18.86	18.11	33.00	PASS
N38	30	40	DFT-256QAM	M	Inner_1RB_Right	18.98	18.23	33.00	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	19.02	18.27	33.00	PASS
N38	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	22.65	21.90	33.00	PASS
N38	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	23.29	22.54	33.00	PASS
N38	30	40	DFT-PI2BPSK	H	Outer_Full	22.64	21.89	33.00	PASS
N38	30	40	DFT-QPSK	H	Inner_1RB_Left	23.20	22.45	33.00	PASS
N38	30	40	DFT-QPSK	H	Inner_1RB_Right	23.41	22.66	33.00	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	22.15	21.40	33.00	PASS
N38	30	40	DFT-16QAM	H	Inner_1RB_Left	22.38	21.63	33.00	PASS
N38	30	40	DFT-16QAM	H	Inner_1RB_Right	22.57	21.82	33.00	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	21.16	20.41	33.00	PASS
N38	30	40	DFT-64QAM	H	Inner_1RB_Left	20.47	19.72	33.00	PASS
N38	30	40	DFT-64QAM	H	Inner_1RB_Right	20.71	19.96	33.00	PASS
N38	30	40	DFT-64QAM	H	Outer_Full	20.63	19.88	33.00	PASS
N38	30	40	DFT-256QAM	H	Inner_1RB_Left	18.94	18.19	33.00	PASS
N38	30	40	DFT-256QAM	H	Inner_1RB_Right	19.09	18.34	33.00	PASS
N38	30	40	DFT-256QAM	H	Outer_Full	18.99	18.24	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
N38	30	40	DFT-256QAM	L	Outer_Full	9.61	≤13	PASS
N38	30	40	CP-256QAM	L	Outer_Full	9.54	≤13	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	9.75	≤13	PASS
N38	30	40	CP-256QAM	M	Outer_Full	9.78	≤13	PASS
N38	30	40	DFT-256QAM	H	Outer_Full	9.49	≤13	PASS
N38	30	40	CP-256QAM	H	Outer_Full	9.70	≤13	PASS



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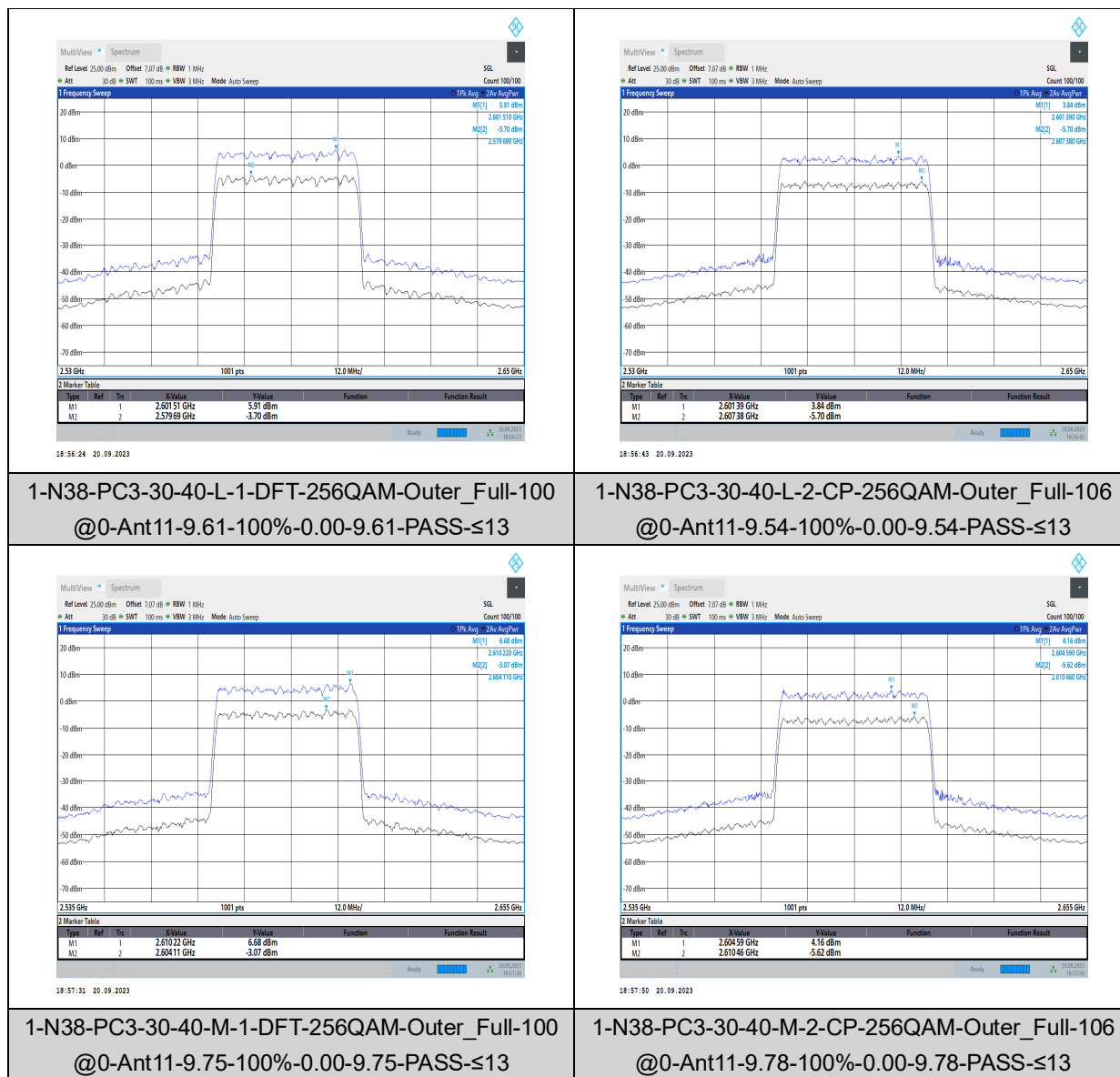
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Test Graphs



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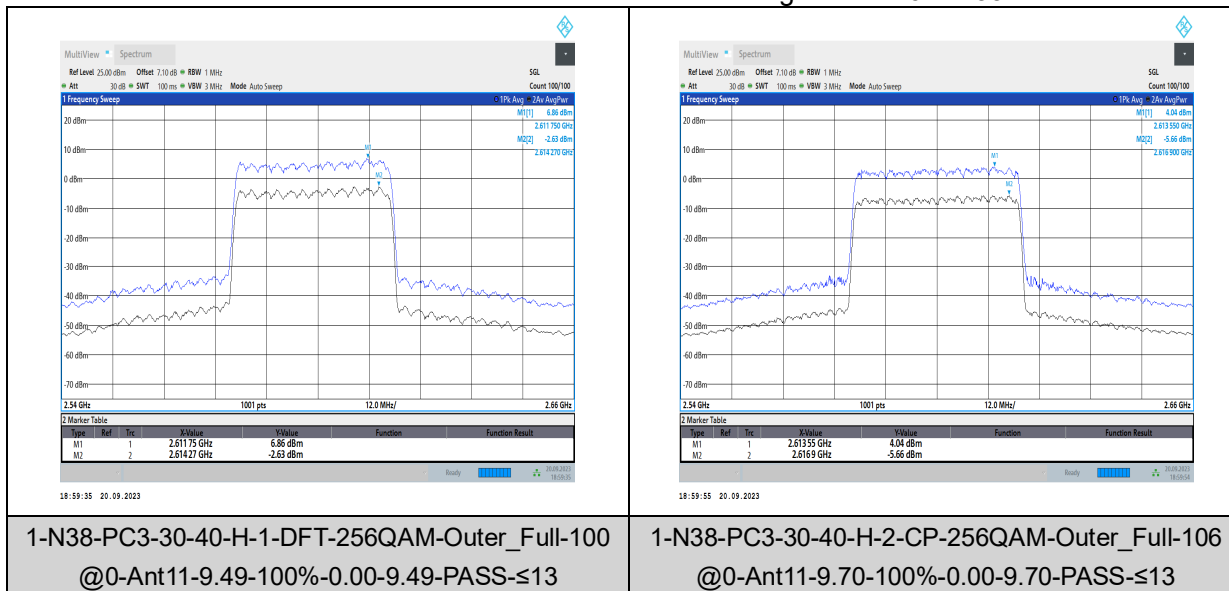
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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N38	30	20	DFT-QPSK	M	Outer_Full	17.838	18.680	PASS
N38	30	20	DFT-PI2BPSK	M	Outer_Full	17.879	18.960	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	17.942	19.200	PASS
N38	30	20	DFT-64QAM	M	Outer_Full	17.866	19.040	PASS
N38	30	20	DFT-256QAM	M	Outer_Full	17.784	19.080	PASS
N38	30	20	CP-QPSK	M	Outer_Full	18.131	19.200	PASS
N38	30	20	CP-16QAM	M	Outer_Full	18.326	19.360	PASS
N38	30	20	CP-64QAM	M	Outer_Full	18.222	19.520	PASS
N38	30	20	CP-256QAM	M	Outer_Full	18.231	19.160	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	26.873	27.960	PASS
N38	30	30	DFT-PI2BPSK	M	Outer_Full	26.82	28.080	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	26.808	28.080	PASS
N38	30	30	DFT-64QAM	M	Outer_Full	26.824	28.140	PASS
N38	30	30	DFT-256QAM	M	Outer_Full	26.85	28.260	PASS
N38	30	30	CP-QPSK	M	Outer_Full	27.872	29.460	PASS
N38	30	30	CP-16QAM	M	Outer_Full	27.845	29.280	PASS
N38	30	30	CP-64QAM	M	Outer_Full	27.877	29.100	PASS
N38	30	30	CP-256QAM	M	Outer_Full	27.841	28.980	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	35.663	37.520	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	35.838	37.360	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	35.725	37.200	PASS
N38	30	40	DFT-64QAM	M	Outer_Full	35.829	37.200	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	35.686	37.360	PASS
N38	30	40	CP-QPSK	M	Outer_Full	37.851	39.440	PASS
N38	30	40	CP-16QAM	M	Outer_Full	37.895	39.360	PASS
N38	30	40	CP-64QAM	M	Outer_Full	37.863	39.840	PASS
N38	30	40	CP-256QAM	M	Outer_Full	37.816	39.440	PASS



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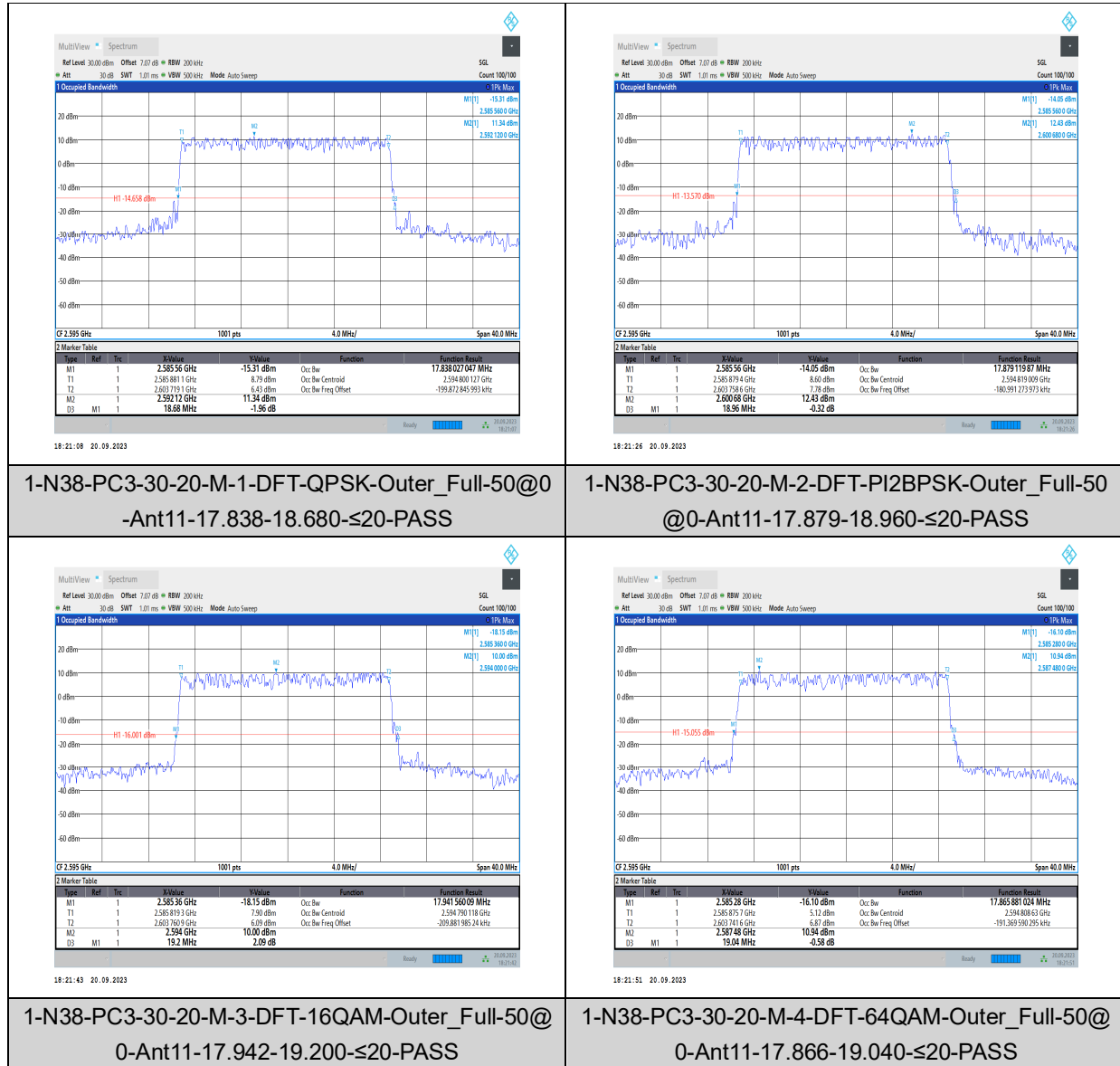
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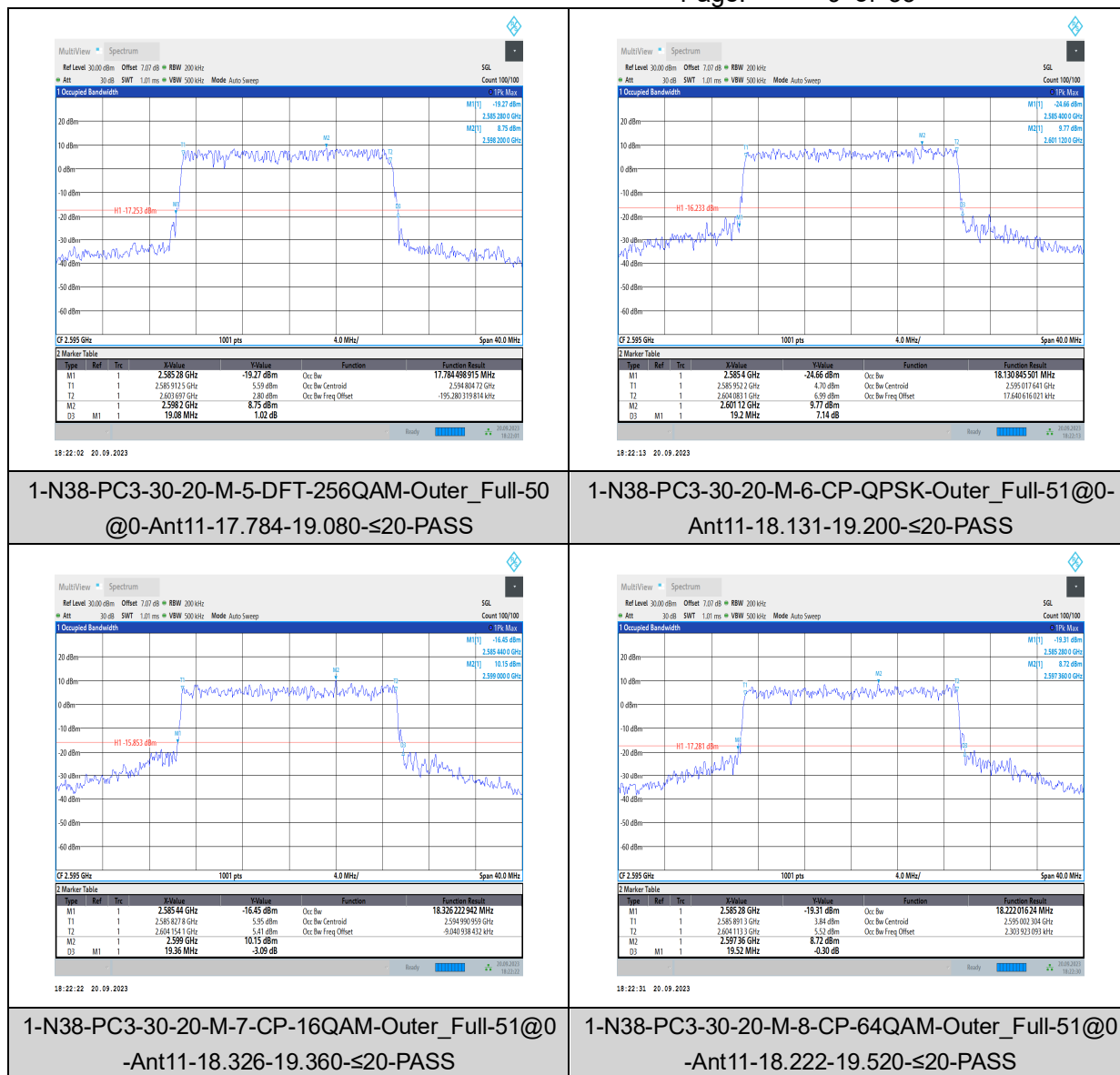
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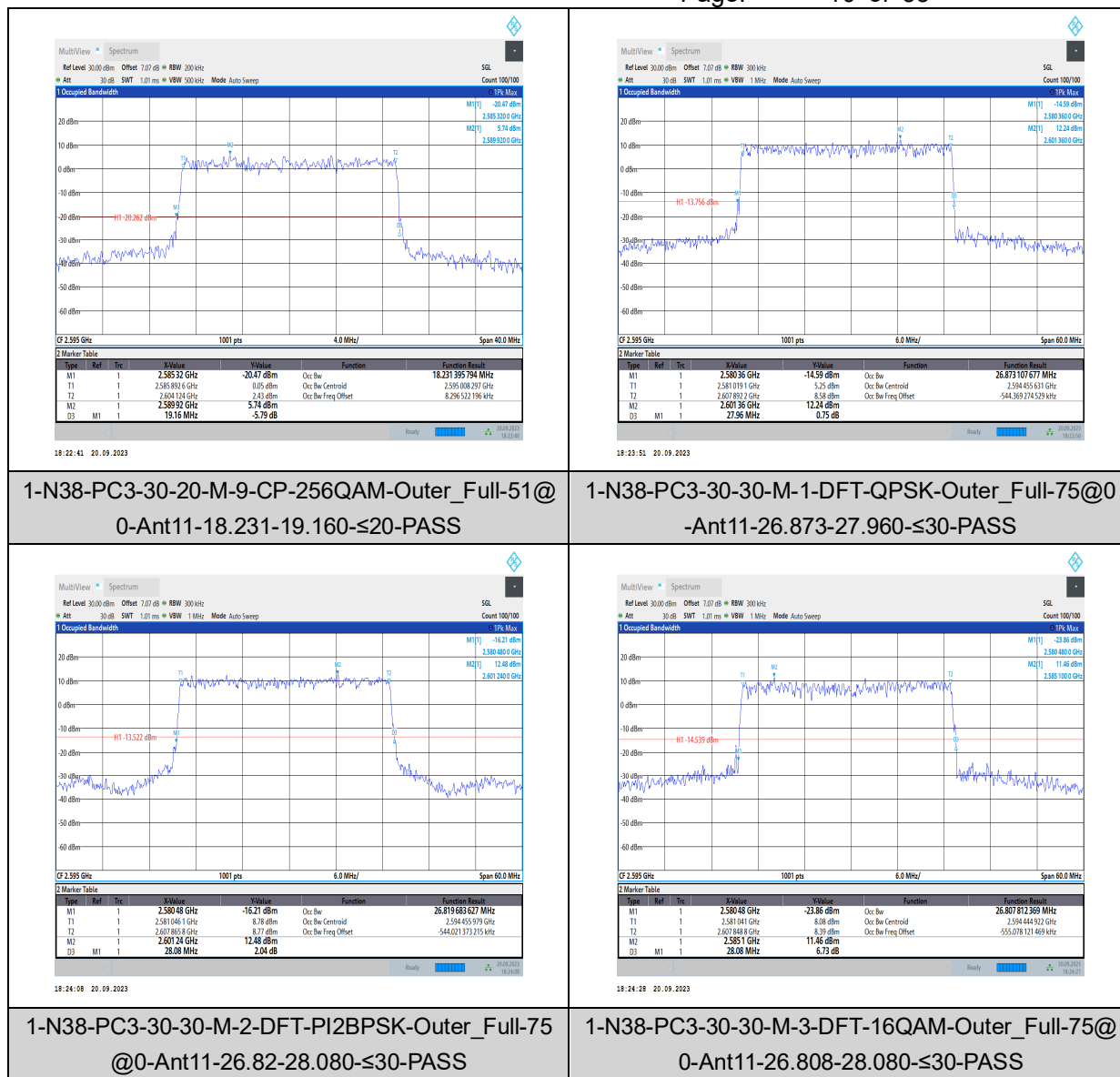
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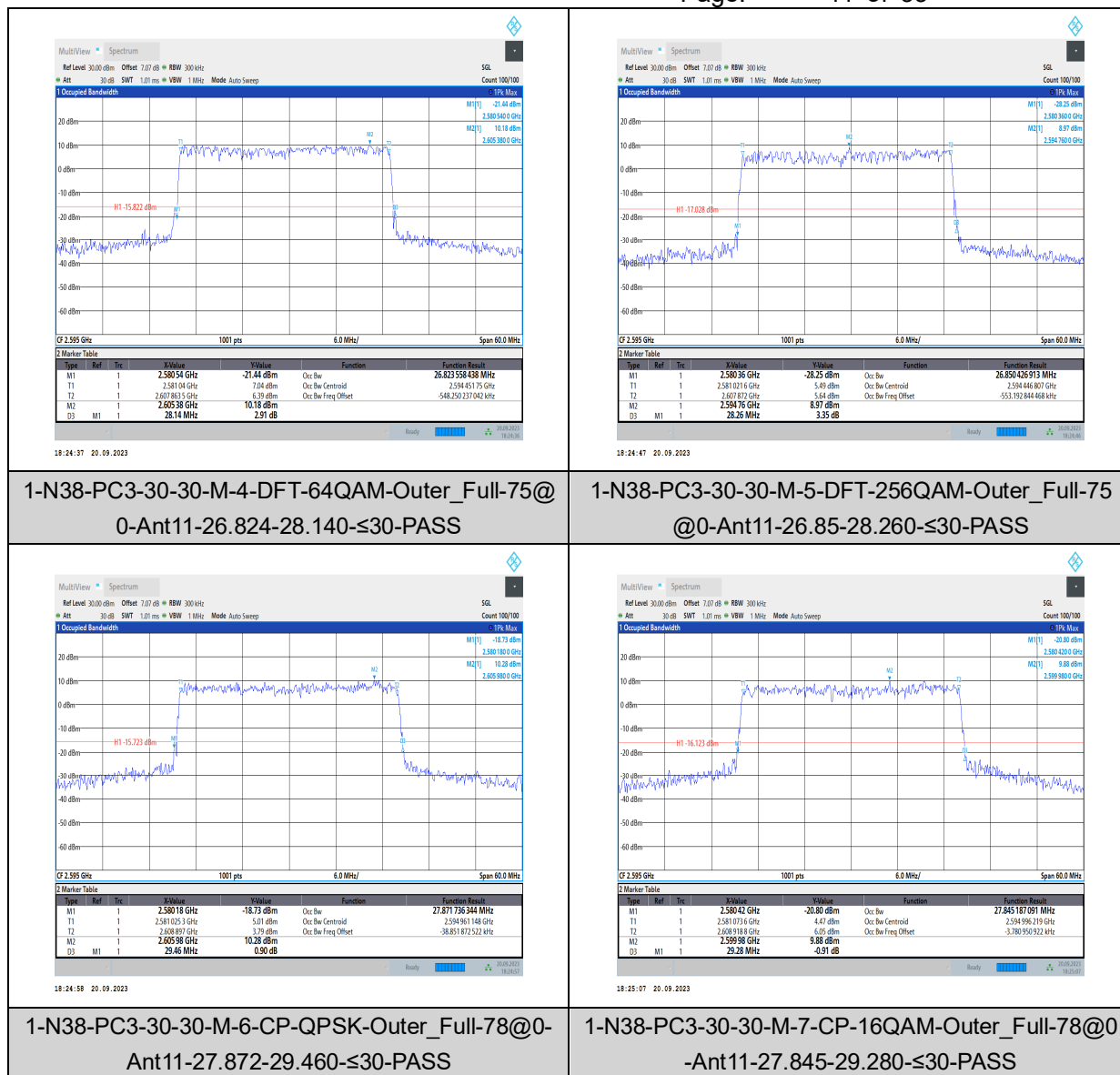
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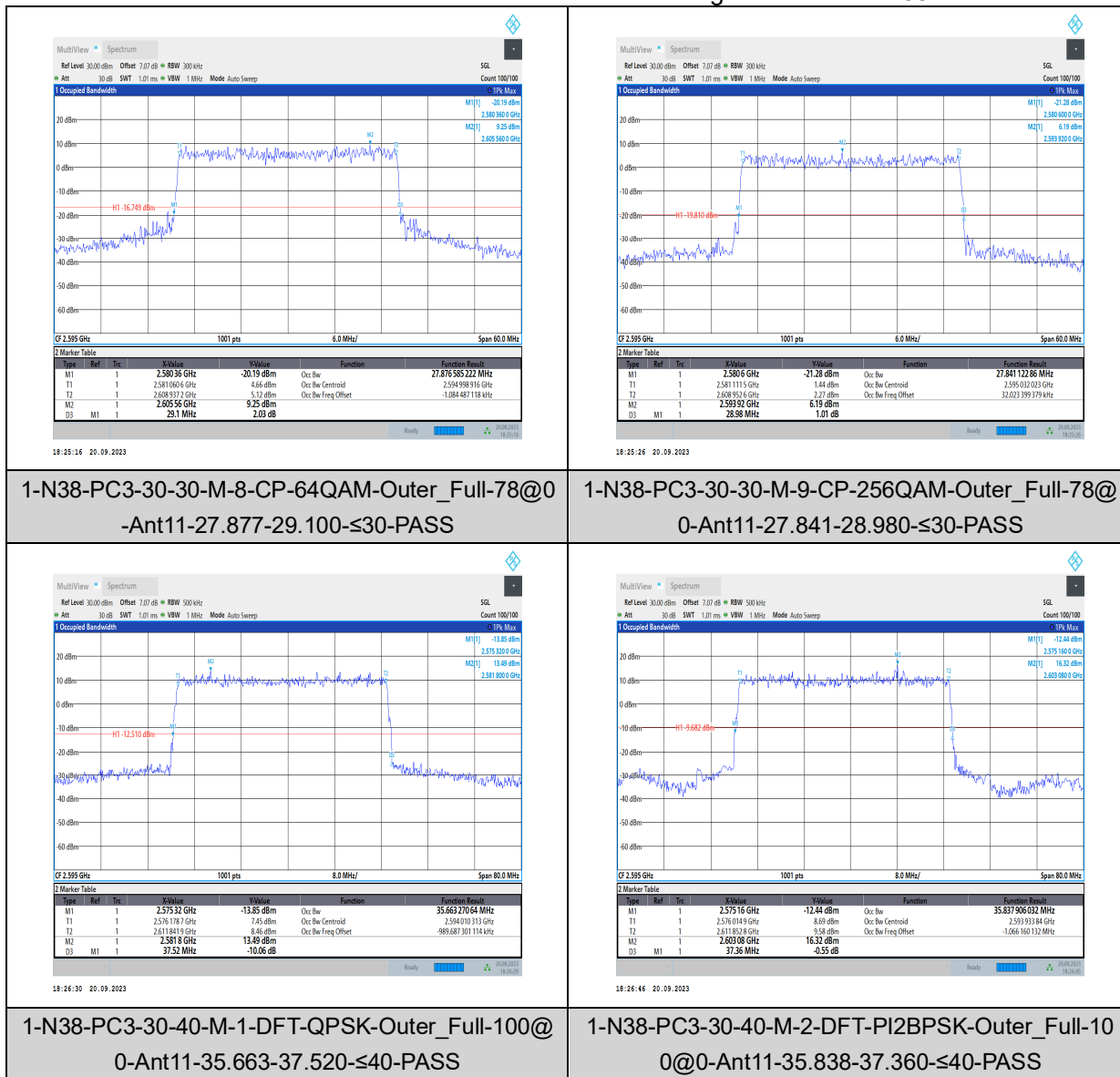
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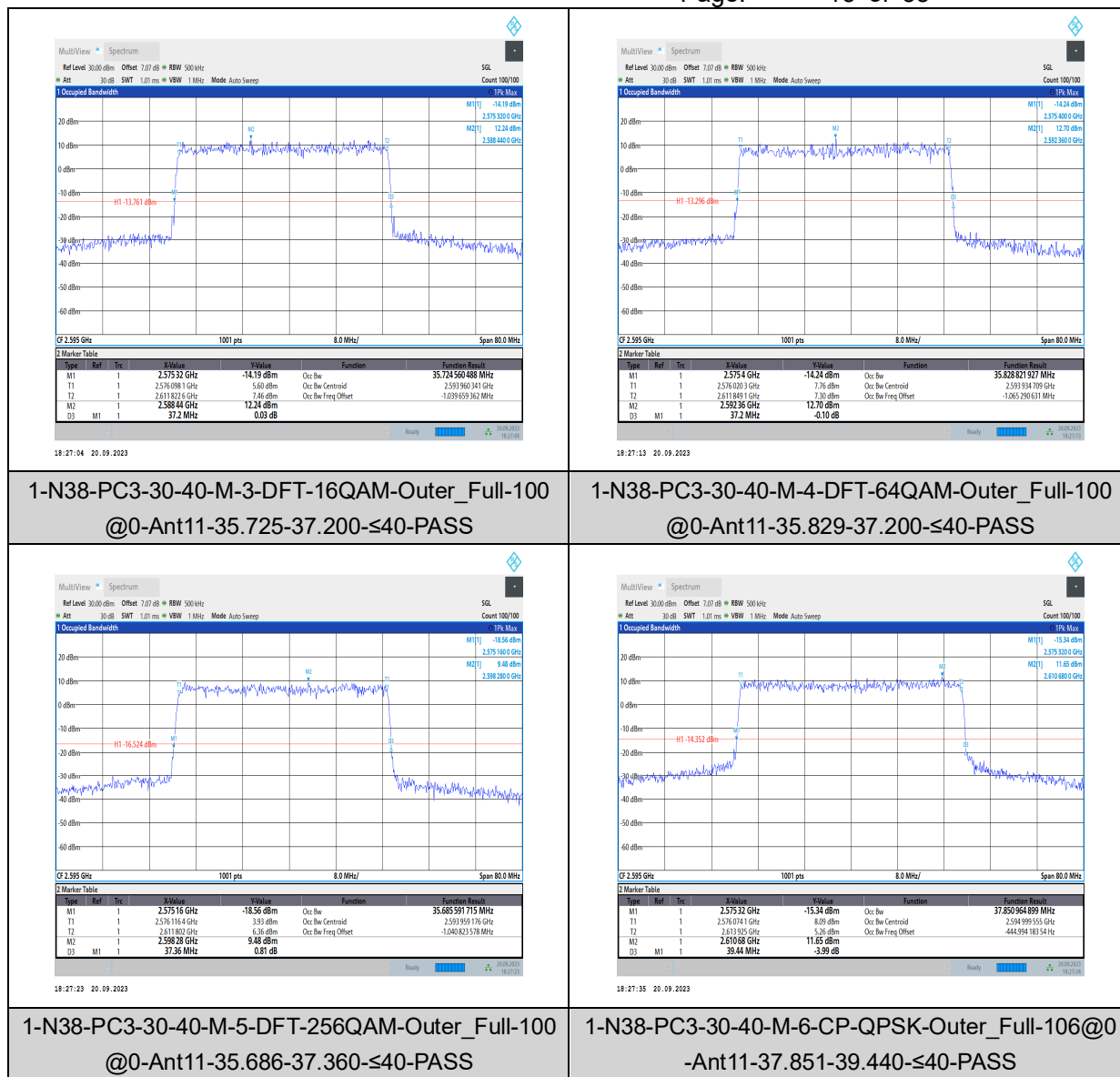
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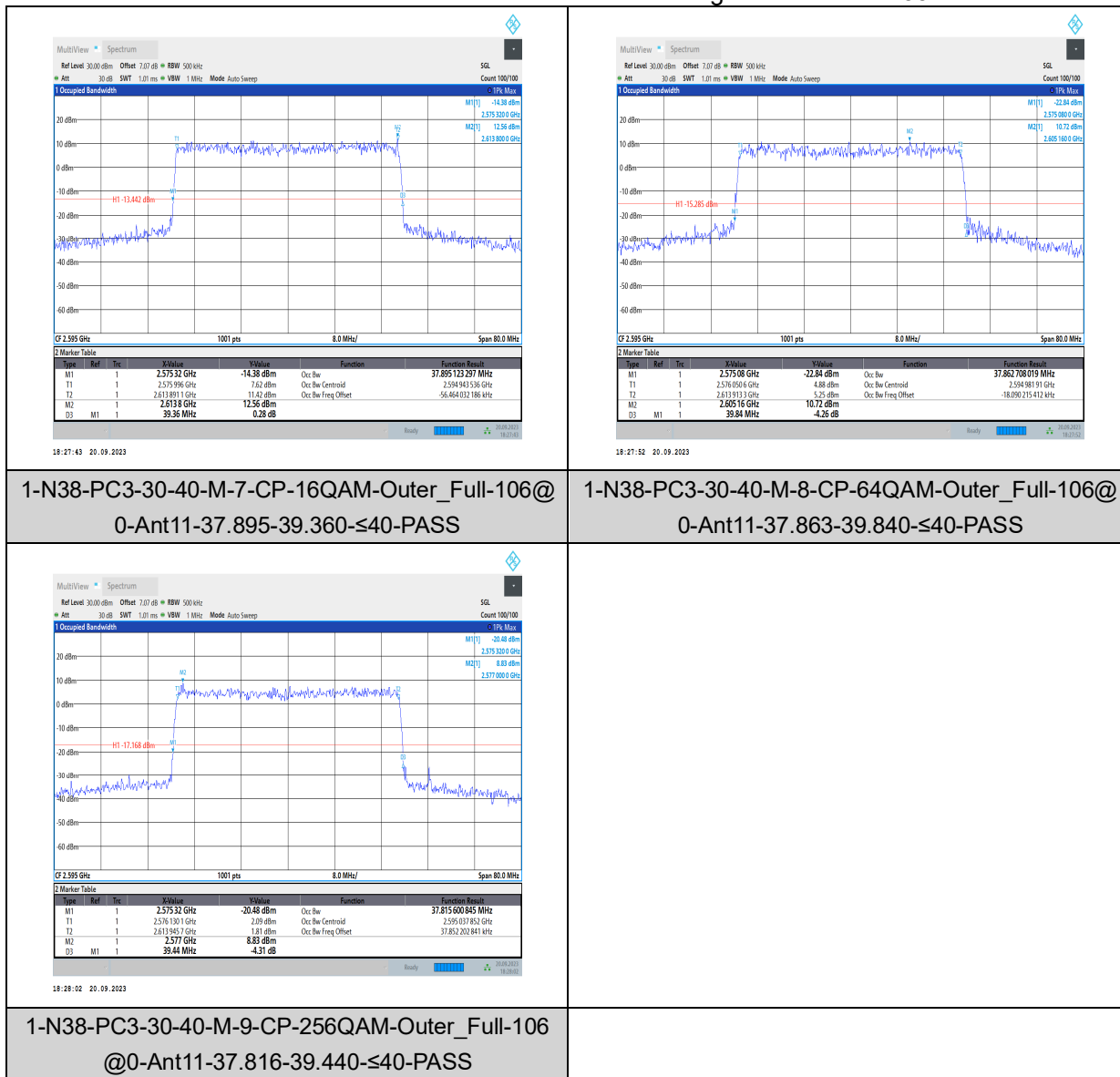
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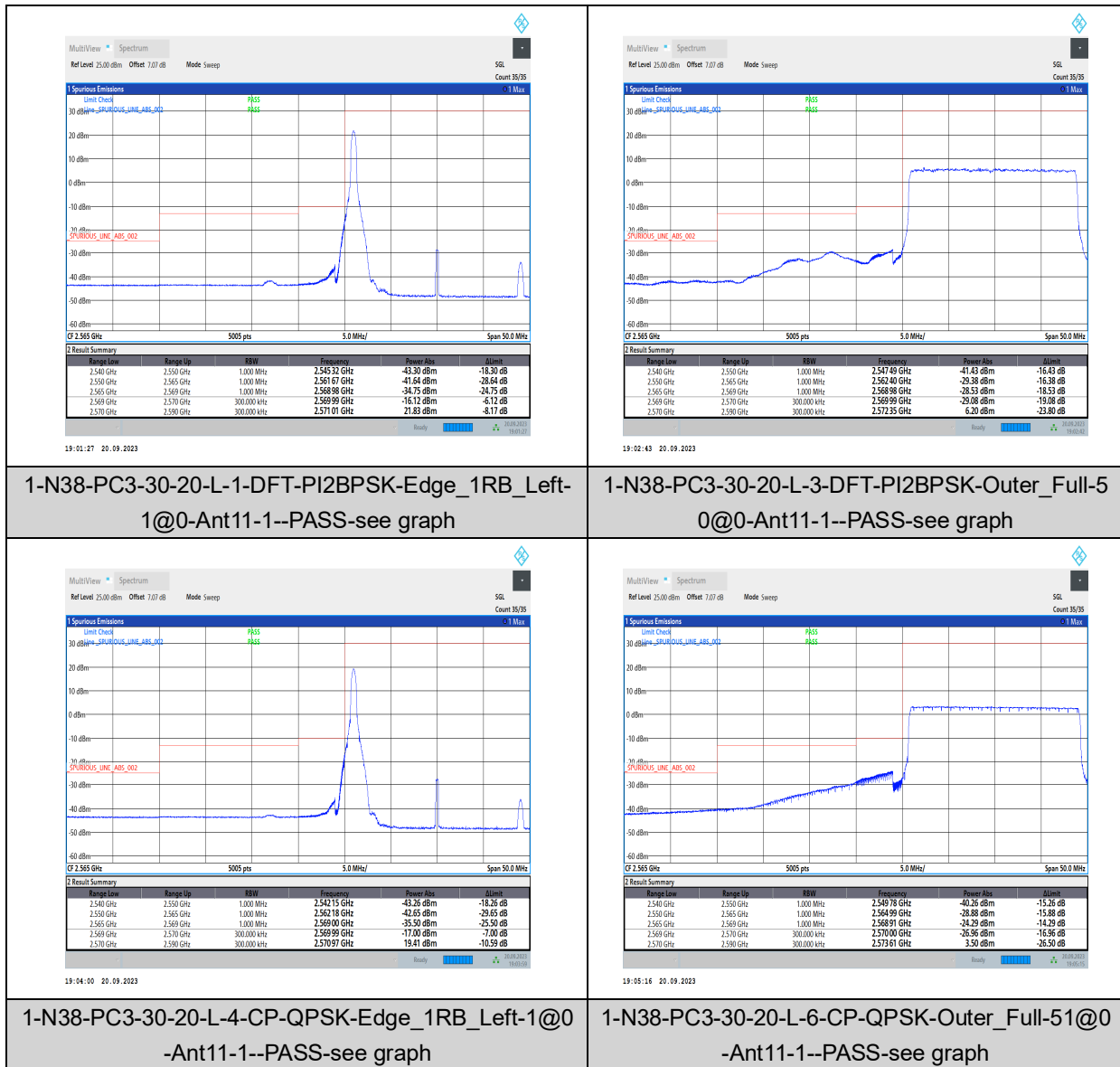
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Band Edge for SA

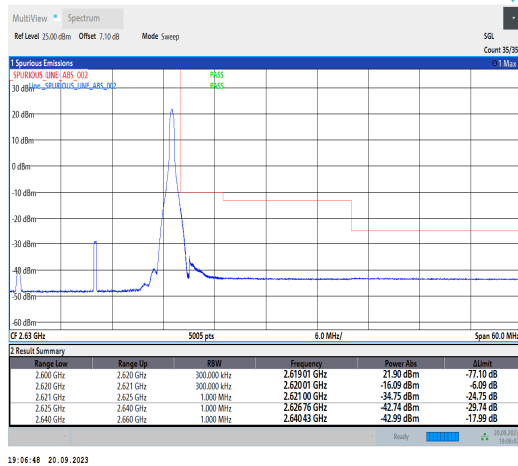
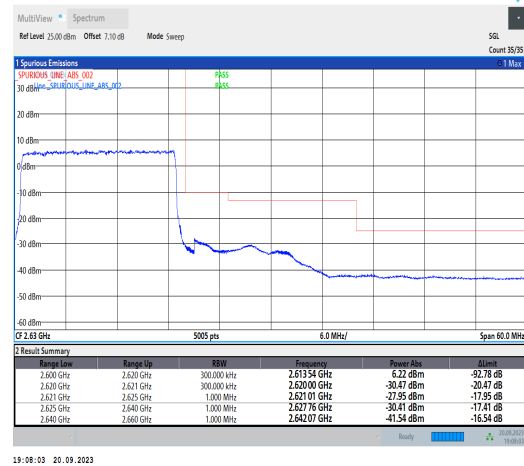
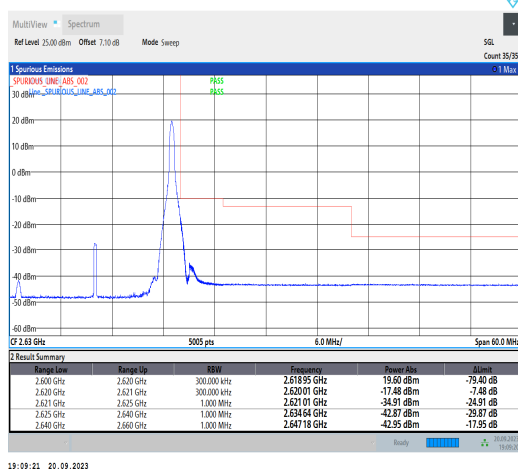
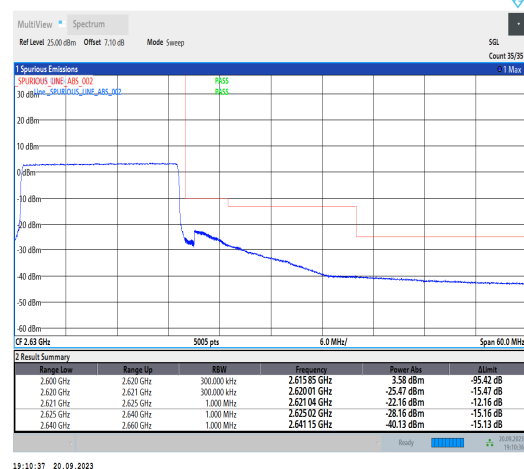
Test Graphs



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1-N38-PC3-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Righ
t1@50-Ant11-1--PASS-see graph1-N38-PC3-30-20-H-3-DFT-PI2BPSK-Outer_Full-5
0@0-Ant11-1--PASS-see graph1-N38-PC3-30-20-H-5-CP-QPSK-Edge_1RB_Right-1
@50-Ant11-1--PASS-see graph1-N38-PC3-30-20-H-6-CP-QPSK-Outer_Full-51@
0-Ant11-1--PASS-see graph

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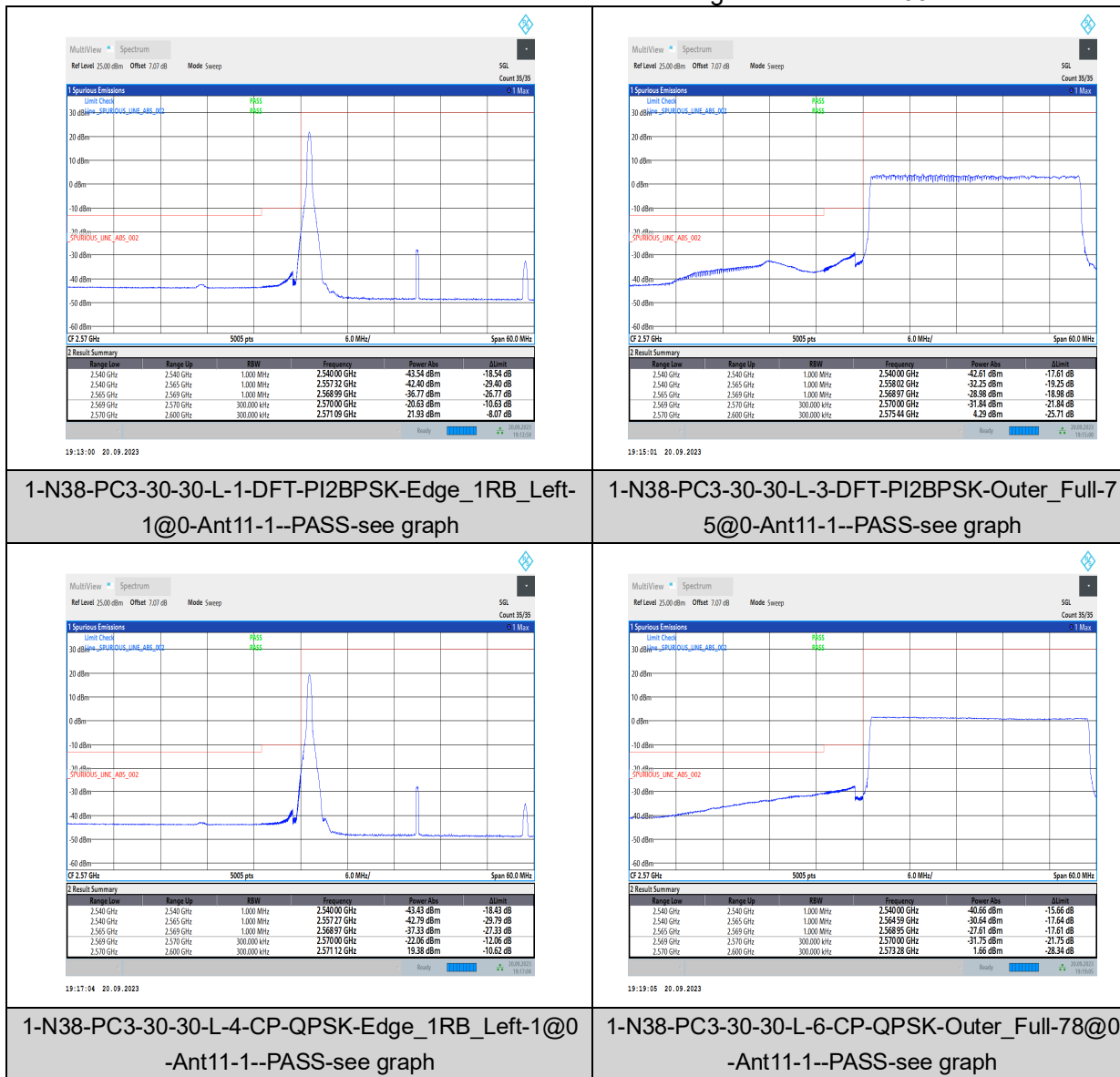
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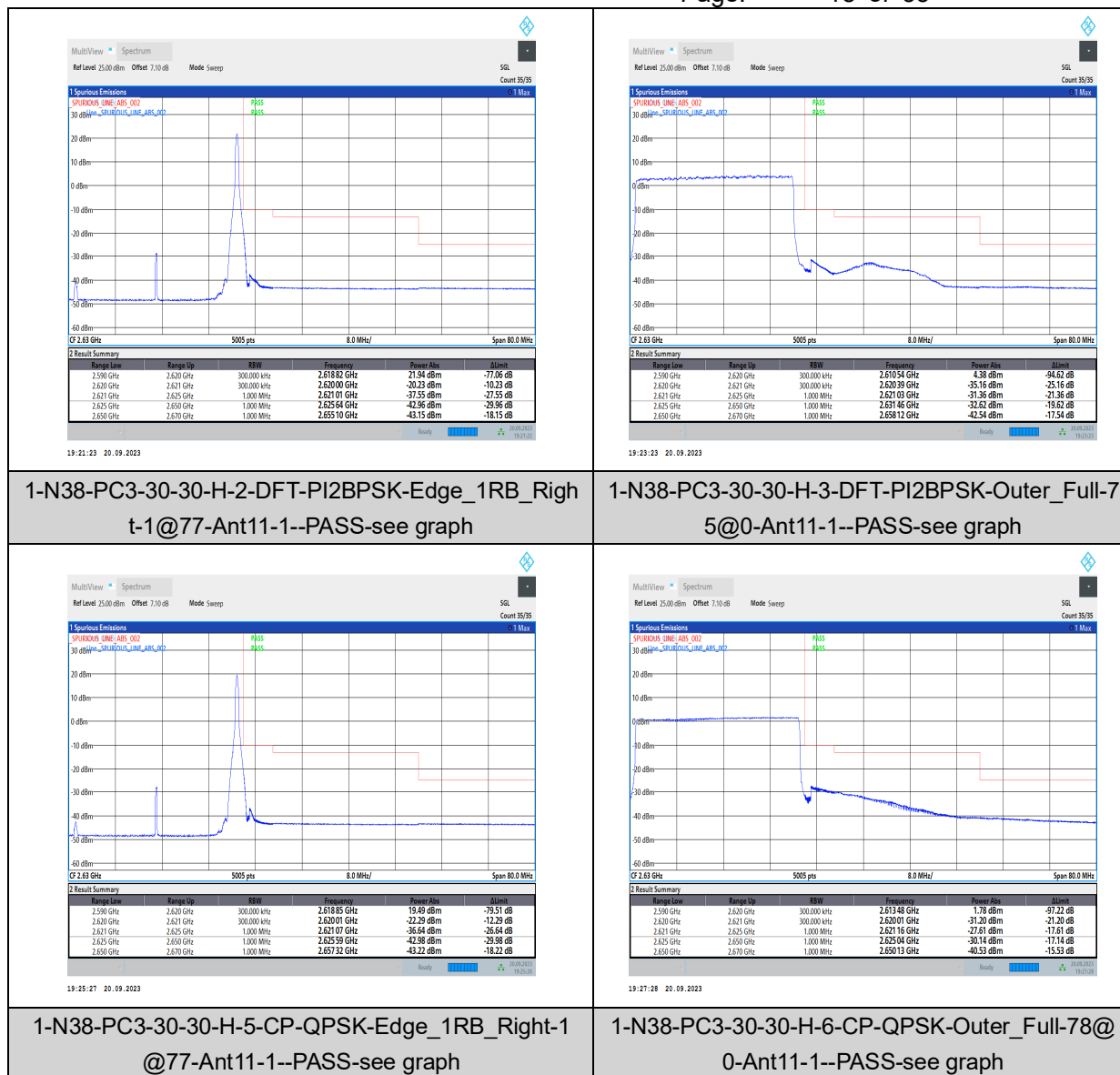
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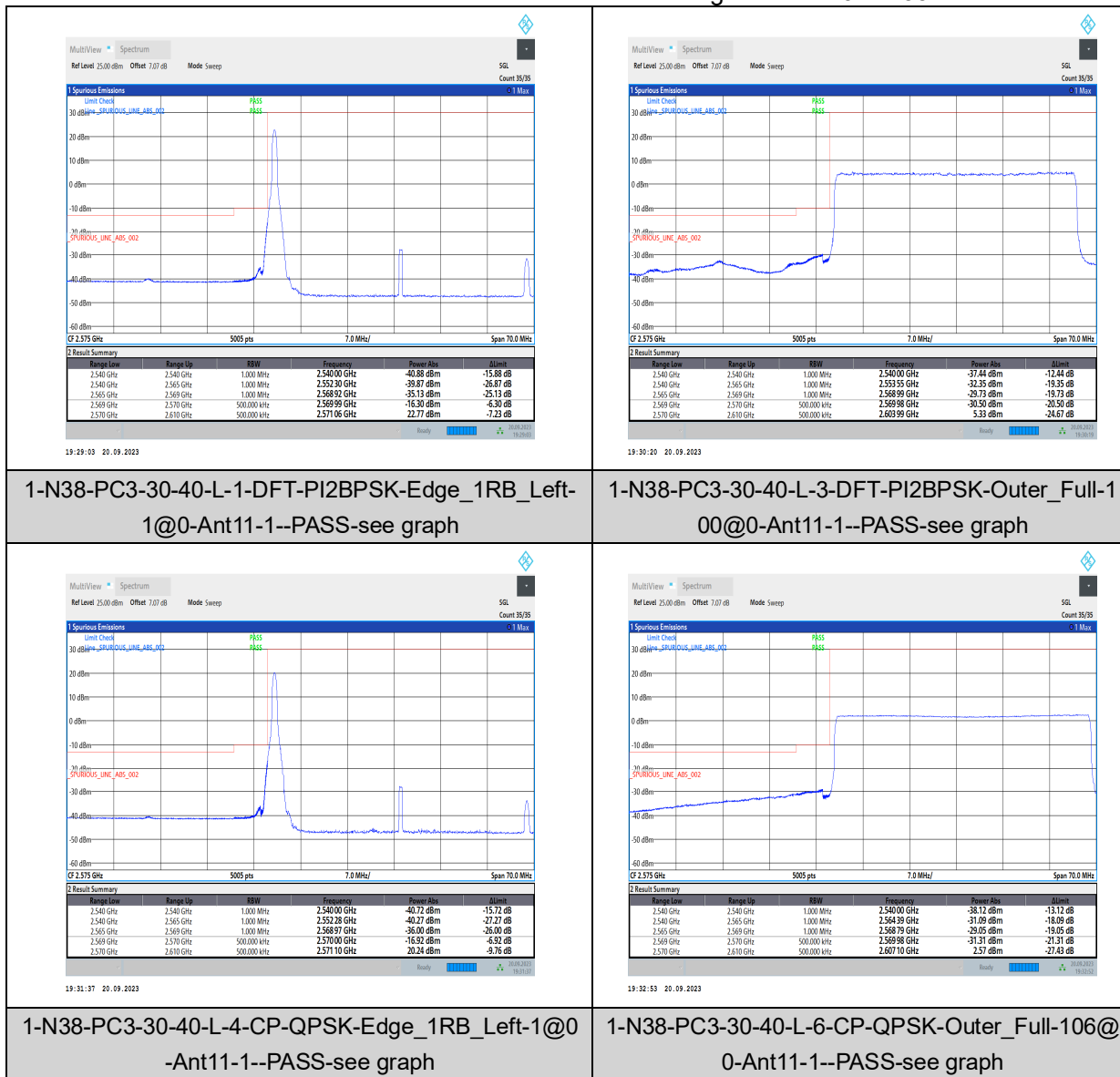
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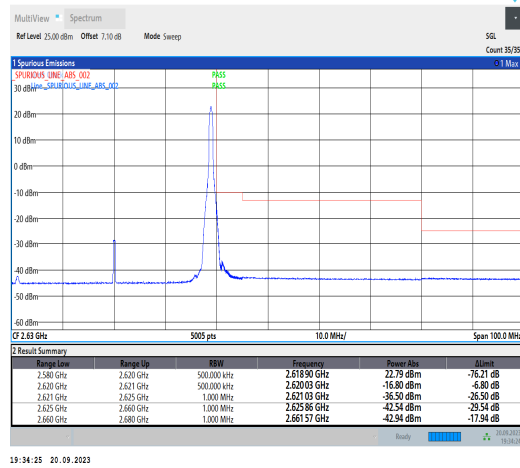
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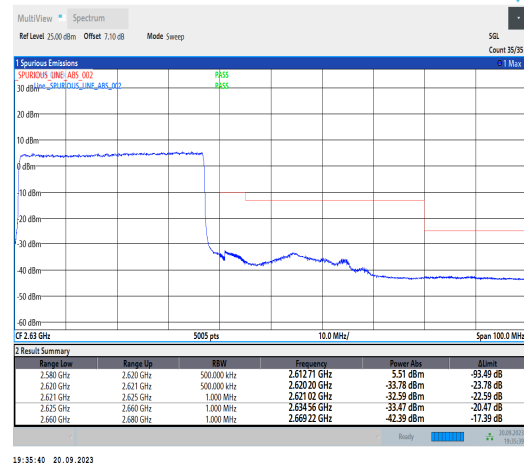
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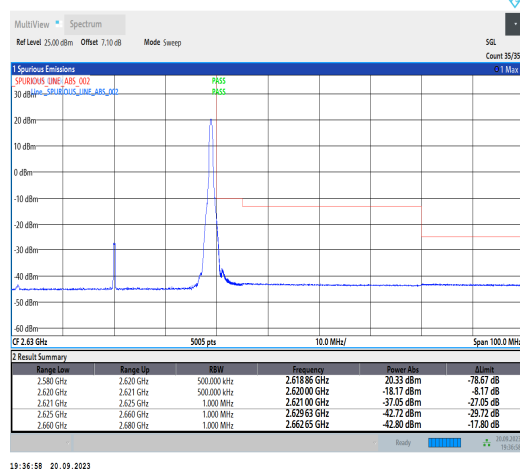
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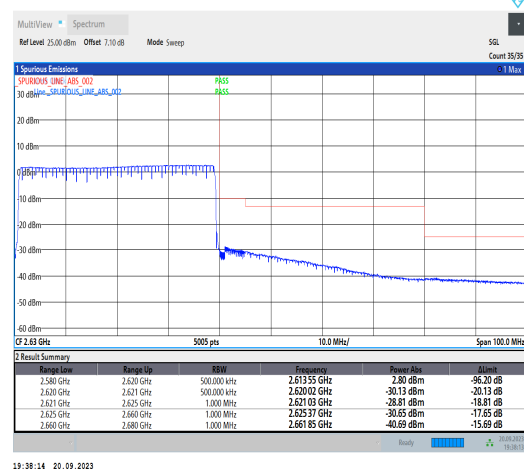
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1-N38-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Right-1
@105-Ant11-1--PASS-see graph



1-N38-PC3-30-40-H-6-CP-QPSK-Outer_Full-106
@0-Ant11-1--PASS-see graph



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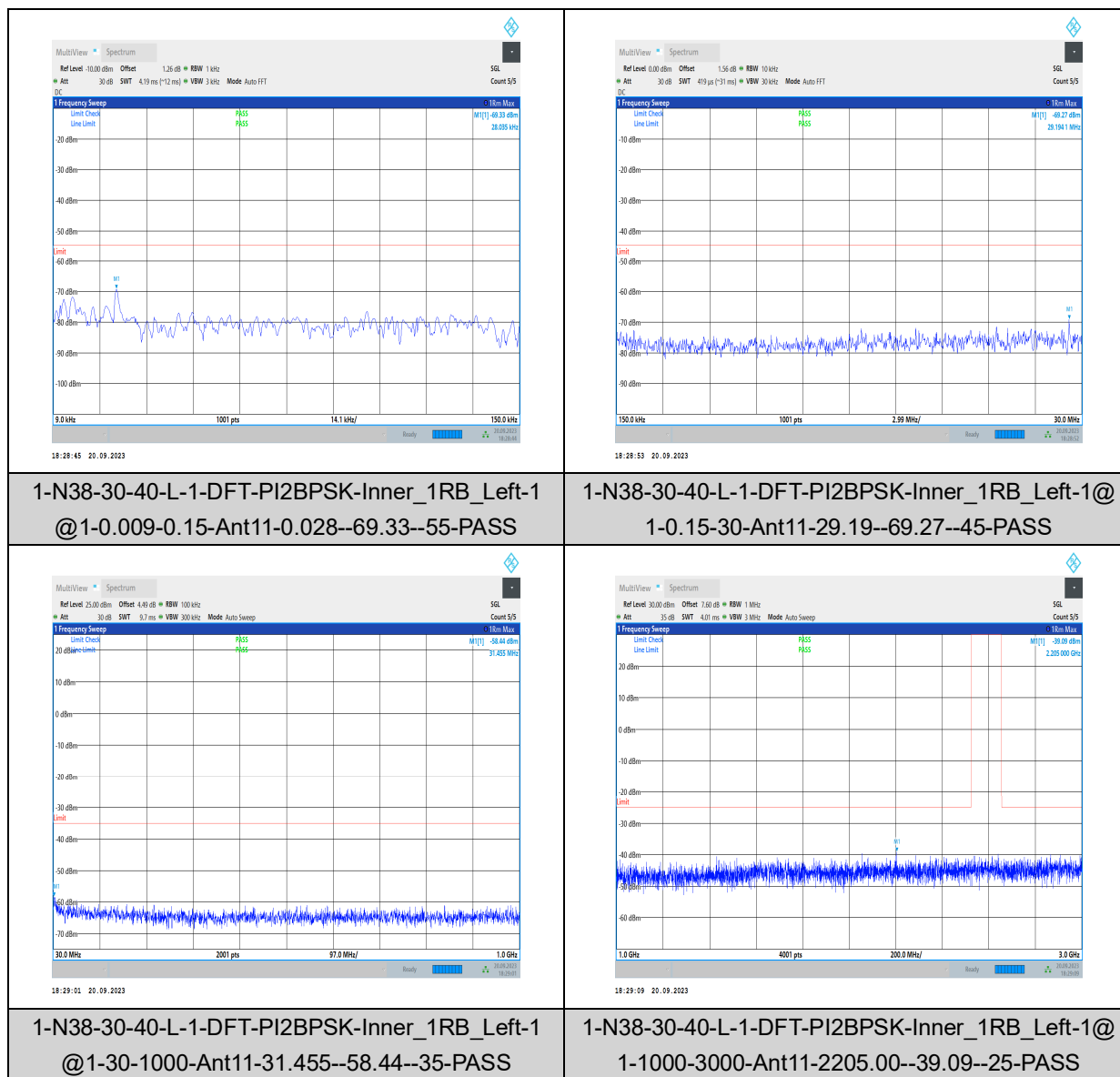
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Conducted Spurious Emission for SA

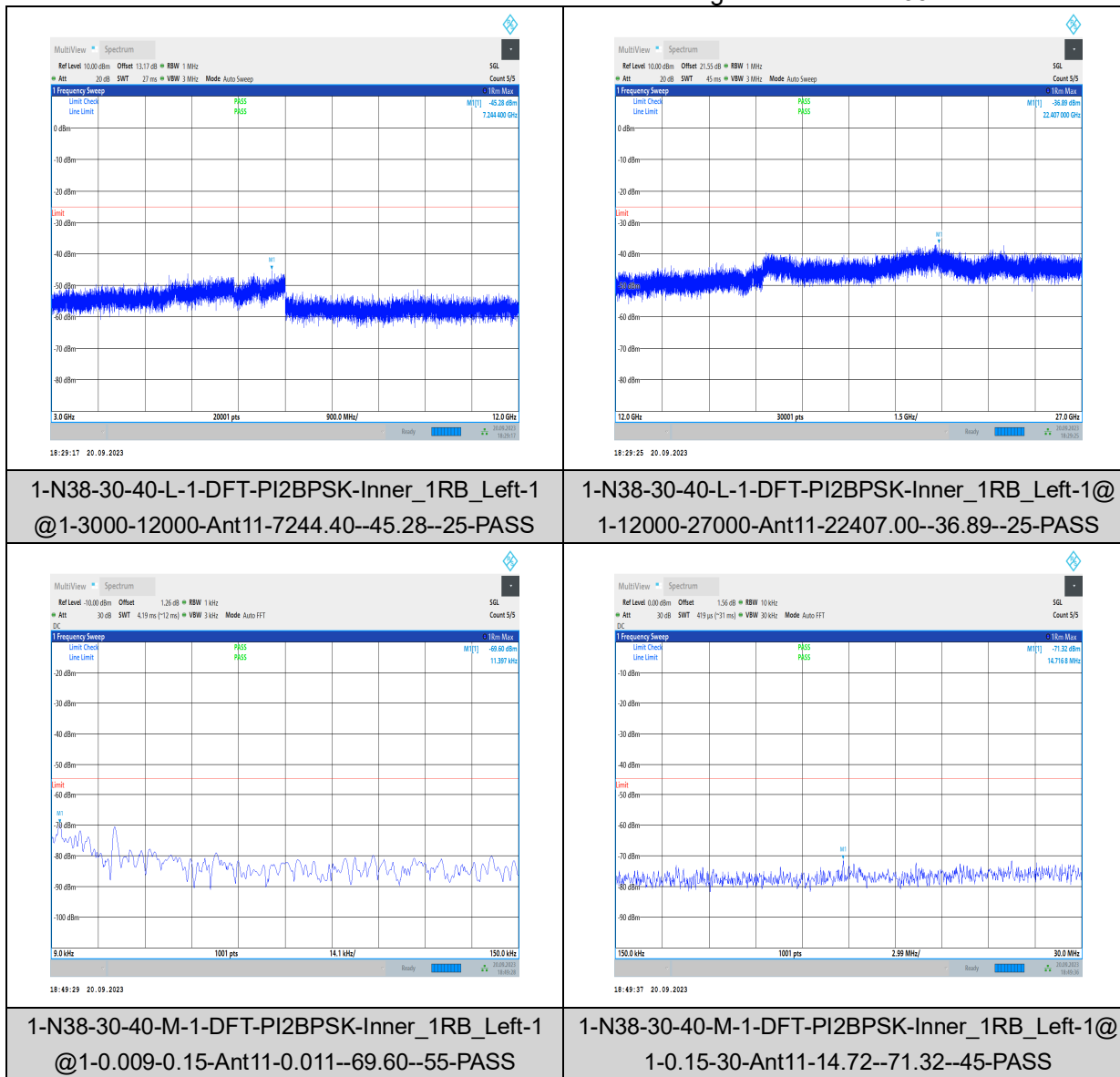
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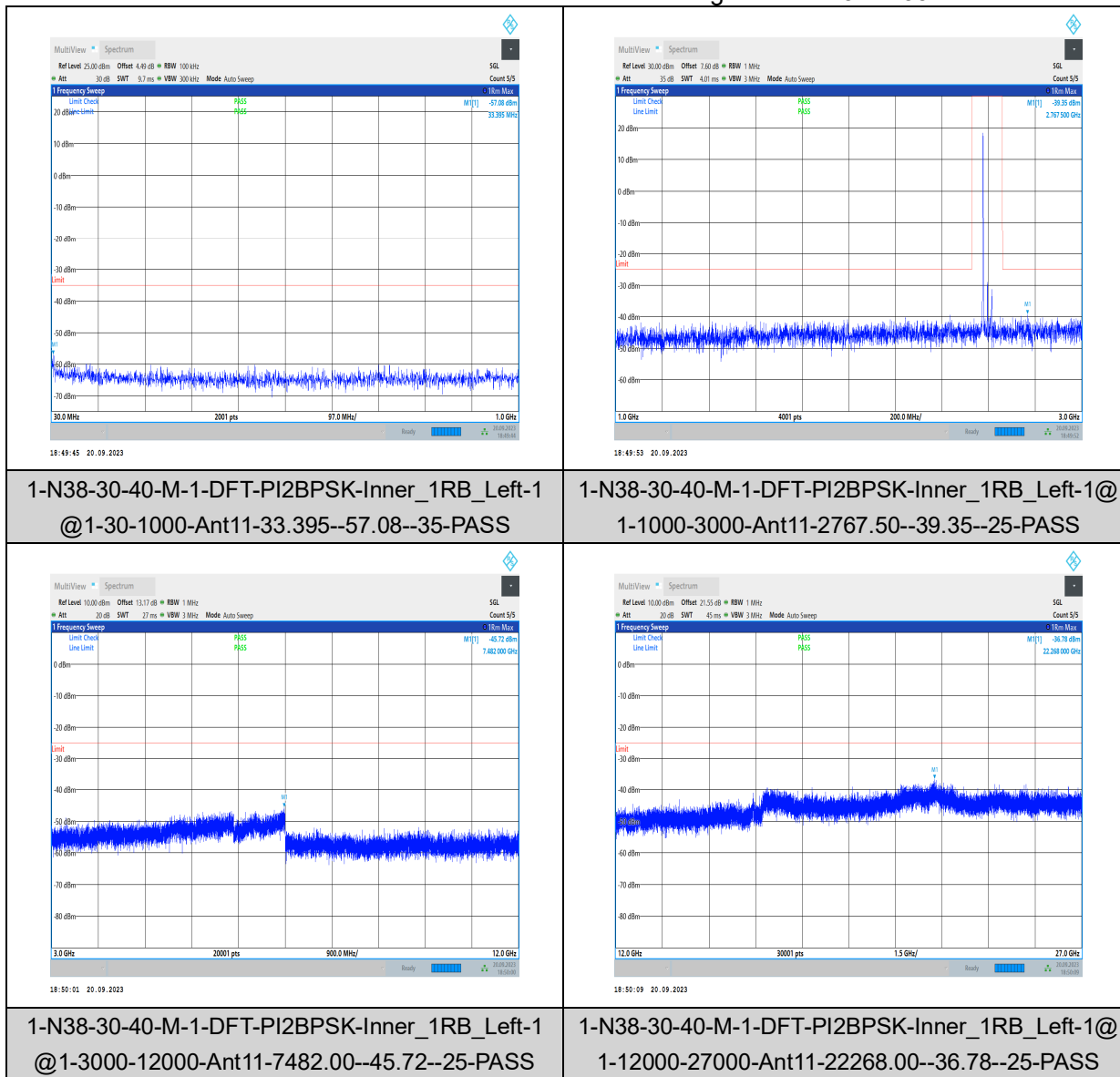
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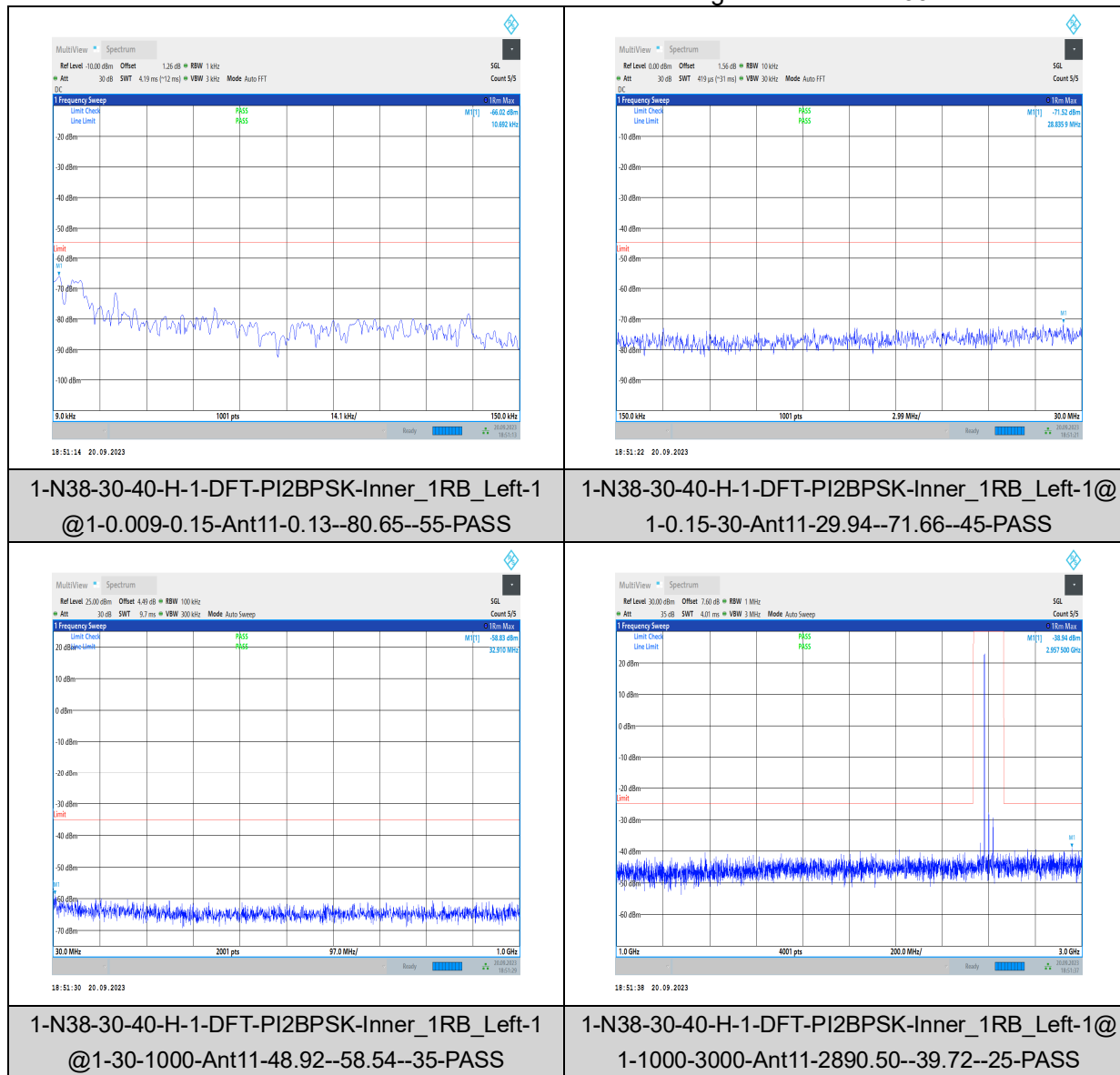
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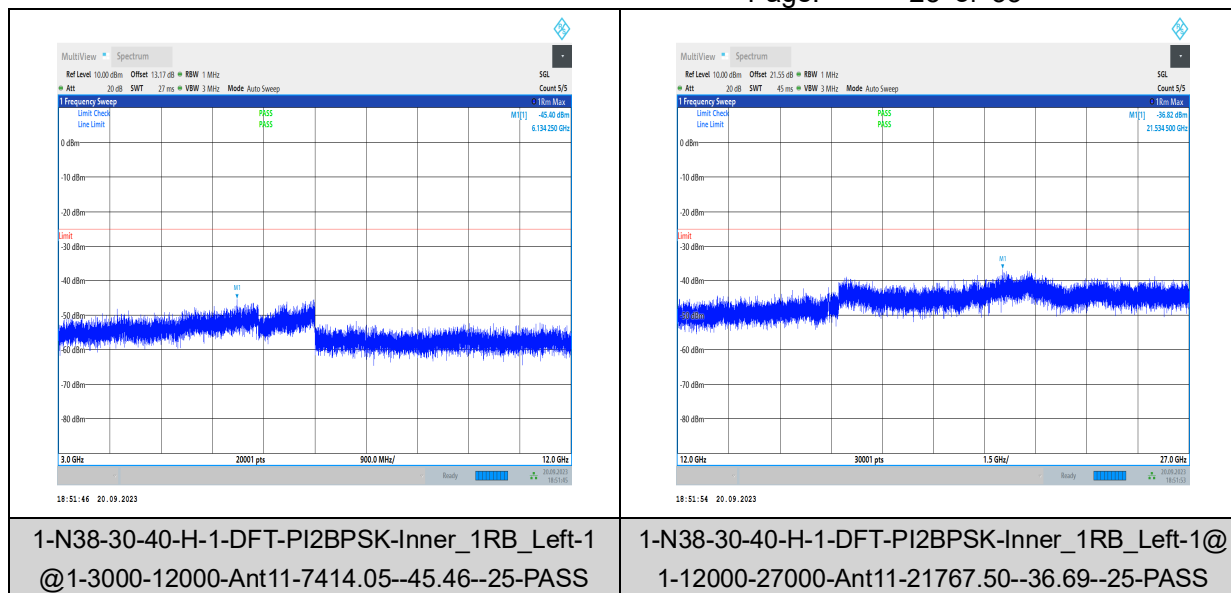
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Field Strength of Spurious Radiation

Test Band = SA Band38_ 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	3979	43.61	-46.09	29.08	-68.66	-25.00	43.66	Horizontal
2	5065.5	41.92	-45.46	31.56	-67.25	-25.00	42.25	Horizontal
3	6502.5	41.08	-44.60	34.30	-64.48	-25.00	39.48	Horizontal
4	7581	39.34	-42.97	36.63	-62.26	-25.00	37.26	Horizontal
5	10702.5	30.05	-37.90	38.55	-64.56	-25.00	39.56	Horizontal
6	13893.5	27.53	-35.51	40.71	-62.53	-25.00	37.53	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3491	43.88	-46.26	28.59	-69.05	-25.00	44.05	Vertical
2	4713	42.86	-45.59	30.77	-67.22	-25.00	42.22	Vertical
3	5676.5	41.72	-44.90	32.64	-65.81	-25.00	40.81	Vertical
4	7833.5	38.53	-42.48	36.73	-62.48	-25.00	37.48	Vertical
5	10088.5	32.32	-39.13	38.24	-63.83	-25.00	38.83	Vertical
6	13854.5	27.57	-35.88	40.64	-62.93	-25.00	37.93	Vertical



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Test Band = SA Band38_ 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	3840	43.30	-46.06	28.94	-69.08	-25.00	44.08	Horizontal
2	4903.5	43.41	-45.53	31.19	-66.20	-25.00	41.20	Horizontal
3	5581.5	41.53	-45.10	32.62	-66.22	-25.00	41.22	Horizontal
4	7843	38.52	-42.53	36.74	-62.53	-25.00	37.53	Horizontal
5	10668.5	29.97	-38.07	38.53	-64.82	-25.00	39.82	Horizontal
6	12785	27.59	-36.81	39.04	-65.44	-25.00	40.44	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4106.5	43.12	-45.76	29.36	-68.55	-25.00	43.55	Vertical
2	5170.5	41.50	-45.31	31.81	-67.26	-25.00	42.26	Vertical
3	6820.5	41.17	-44.16	34.88	-63.37	-25.00	38.37	Vertical
4	8457	38.30	-41.55	36.57	-61.94	-25.00	36.94	Vertical
5	11215.5	29.78	-37.39	38.72	-64.15	-25.00	39.15	Vertical
6	15153.5	26.64	-34.40	40.98	-62.04	-25.00	37.04	Vertical



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Test Band = SA Band38_ 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	4125.5	43.01	-45.76	29.40	-68.61	-25.00	43.61	Horizontal
2	5208	41.18	-45.26	31.90	-67.45	-25.00	42.45	Horizontal
3	7647.5	38.93	-43.02	36.66	-62.69	-25.00	37.69	Horizontal
4	9020.5	35.98	-40.87	36.34	-63.81	-25.00	38.81	Horizontal
5	13885	27.11	-35.59	40.69	-63.05	-25.00	38.05	Horizontal
6	15153	26.74	-34.40	40.98	-61.95	-25.00	36.95	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3767	42.90	-45.78	28.87	-69.27	-25.00	44.27	Vertical
2	4736	41.81	-45.58	30.82	-68.21	-25.00	43.21	Vertical
3	5593	41.63	-45.08	32.62	-66.09	-25.00	41.09	Vertical
4	7382	39.72	-43.47	36.27	-62.74	-25.00	37.74	Vertical
5	10073	32.83	-39.15	38.24	-63.35	-25.00	38.35	Vertical
6	11230.5	30.22	-37.40	38.72	-63.72	-25.00	38.72	Vertical



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Test Band = NSA 2A-N38A_ 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	3654	43.44	-45.79	28.75	-68.86	-25.00	43.86	Horizontal
2	5144.1800	40.39	-45.33	31.75	-68.45	-25.00	43.45	Horizontal
3	7716.2700	37.62	-42.99	36.69	-63.94	-25.00	38.94	Horizontal
4	10288.3600	30.46	-39.14	38.34	-65.59	-25.00	40.59	Horizontal
5	12860.4500	26.77	-37.00	39.06	-66.43	-25.00	41.43	Horizontal
6	15432.5400	25.26	-34.11	40.39	-63.72	-25.00	38.72	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3749	42.54	-45.71	28.85	-69.58	-25.00	44.58	Vertical
2	5144.1800	39.61	-45.33	31.75	-69.23	-25.00	44.23	Vertical
3	7716.2700	37.42	-42.99	36.69	-64.14	-25.00	39.14	Vertical
4	10288.3600	30.28	-39.14	38.34	-65.77	-25.00	40.77	Vertical
5	12860.4500	26.83	-37.00	39.06	-66.37	-25.00	41.37	Vertical
6	15432.5400	24.43	-34.11	40.39	-64.55	-25.00	39.55	Vertical



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Test Band = NSA 2A-N38A_ 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	3770.5	43.31	-45.80	28.87	-68.88	-25.00	43.88	Horizontal
2	5154.1800	39.11	-45.32	31.77	-69.70	-25.00	44.70	Horizontal
3	7731.2700	37.76	-42.86	36.69	-63.67	-25.00	38.67	Horizontal
4	10308.3600	30.17	-39.08	38.35	-65.82	-25.00	40.82	Horizontal
5	12885.4500	26.24	-37.07	39.07	-67.02	-25.00	42.02	Horizontal
6	15462.5400	24.86	-34.67	40.33	-64.75	-25.00	39.75	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3316.5	43.81	-46.43	28.49	-69.39	-25.00	44.39	Vertical
2	5154.1800	39.21	-45.32	31.77	-69.60	-25.00	44.60	Vertical
3	7731.2700	36.80	-42.86	36.69	-64.63	-25.00	39.63	Vertical
4	10308.3600	29.30	-39.08	38.35	-66.69	-25.00	41.69	Vertical
5	12885.4500	26.61	-37.07	39.07	-66.65	-25.00	41.65	Vertical
6	15462.5400	24.48	-34.67	40.33	-65.13	-25.00	40.13	Vertical



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Test Band = NSA 2A-N38A_ 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	3649	43.03	-45.82	28.75	-69.30	-25.00	44.30	Horizontal
2	5164.1800	39.07	-45.31	31.79	-69.71	-25.00	44.71	Horizontal
3	7746.2700	36.99	-42.74	36.70	-64.31	-25.00	39.31	Horizontal
4	10328.3600	30.20	-39.07	38.36	-65.76	-25.00	40.76	Horizontal
5	12910.4500	26.98	-37.13	39.07	-66.34	-25.00	41.34	Horizontal
6	15492.5400	24.35	-35.24	40.26	-65.88	-25.00	40.88	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3566.5	43.45	-46.17	28.67	-69.32	-25.00	44.32	Vertical
2	5164.1800	39.00	-45.31	31.79	-69.78	-25.00	44.78	Vertical
3	7746.2700	38.05	-42.74	36.70	-63.25	-25.00	38.25	Vertical
4	10328.3600	29.82	-39.07	38.36	-66.14	-25.00	41.14	Vertical
5	12910.4500	26.36	-37.13	39.07	-66.96	-25.00	41.96	Vertical
6	15492.5400	23.52	-35.24	40.26	-66.71	-25.00	41.71	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
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.400000	-0.000539	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.100000	-0.001580	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.800000	0.000308	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VH	NT	-1.300000	-0.000501	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VN	NT	-4.100000	-0.001580	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VL	NT	-5.000000	-0.001927	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-0.300000	-0.000116	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-6.300000	-0.002428	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-2.600000	-0.001002	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.500000	-0.000963	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-0.200000	-0.000077	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-0.500000	-0.000193	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	0.200000	0.000077	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.100000	-0.001965	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-8.300000	-0.003198	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-30	-1.300000	-0.000501	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-20	-7.900000	-0.003044	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-10	-4.300000	-0.001657	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	0	-7.000000	-0.002697	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	10	-3.100000	-0.001195	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	20	-7.400000	-0.002852	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	30	-1.600000	-0.000617	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	40	1.000000	0.000385	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	50	-5.000000	-0.001927	PASS

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