

Report No.: SEWM2307000261RG02

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Appendix B.17

NR Band n5



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**Effective (Isotropic) Radiated Power Output Data for SA****Test Result****Ant1:**

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	L	1RB1	24.93	17.78	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	1RB104	24.30	17.15	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	100RB0	23.73	16.58	38.45	PASS
N5	15	20	DFT-QPSK	L	1RB1	24.93	17.78	38.45	PASS
N5	15	20	DFT-QPSK	L	1RB104	24.53	17.38	38.45	PASS
N5	15	20	DFT-QPSK	L	100RB0	23.86	16.71	38.45	PASS
N5	15	20	DFT-16QAM	L	1RB1	23.92	16.77	38.45	PASS
N5	15	20	DFT-64QAM	L	1RB1	22.76	15.61	38.45	PASS
N5	15	20	DFT-256QAM	L	1RB1	21.02	13.87	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	1RB1	24.83	17.68	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	1RB104	24.15	17.00	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	100RB0	23.69	16.54	38.45	PASS
N5	15	20	DFT-QPSK	M	1RB1	24.91	17.76	38.45	PASS
N5	15	20	DFT-QPSK	M	1RB104	24.43	17.28	38.45	PASS
N5	15	20	DFT-QPSK	M	100RB0	23.77	16.62	38.45	PASS
N5	15	20	DFT-16QAM	M	1RB1	23.84	16.69	38.45	PASS
N5	15	20	DFT-64QAM	M	1RB1	22.79	15.64	38.45	PASS
N5	15	20	DFT-256QAM	M	1RB1	20.94	13.79	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	1RB1	24.97	17.82	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	1RB104	24.52	17.37	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	100RB0	23.80	16.65	38.45	PASS
N5	15	20	DFT-QPSK	H	1RB1	24.86	17.71	38.45	PASS
N5	15	20	DFT-QPSK	H	1RB104	24.50	17.35	38.45	PASS
N5	15	20	DFT-QPSK	H	100RB0	24.02	16.87	38.45	PASS
N5	15	20	DFT-16QAM	H	1RB1	23.95	16.80	38.45	PASS
N5	15	20	DFT-64QAM	H	1RB1	22.69	15.54	38.45	PASS
N5	15	20	DFT-256QAM	H	1RB1	20.91	13.76	38.45	PASS
N5	15	20	CP-QPSK	L	1RB1	22.88	15.73	38.45	PASS
N5	15	20	CP-QPSK	M	1RB1	22.82	15.67	38.45	PASS
N5	15	20	CP-QPSK	H	1RB1	22.79	15.64	38.45	PASS
N5	15	15	DFT-QPSK	L	1RB1	24.65	17.50	38.45	PASS



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N5	15	15	DFT-16QAM	L	1RB1	23.56	16.41	38.45	PASS
N5	15	15	DFT-QPSK	M	1RB1	24.67	17.52	38.45	PASS
N5	15	15	DFT-16QAM	M	1RB1	23.49	16.34	38.45	PASS
N5	15	15	DFT-QPSK	H	1RB1	24.64	17.49	38.45	PASS
N5	15	15	DFT-16QAM	H	1RB1	23.76	16.61	38.45	PASS
N5	15	10	DFT-QPSK	L	1RB1	24.73	17.58	38.45	PASS
N5	15	10	DFT-16QAM	L	1RB1	23.51	16.36	38.45	PASS
N5	15	10	DFT-QPSK	M	1RB1	24.61	17.46	38.45	PASS
N5	15	10	DFT-16QAM	M	1RB1	23.62	16.47	38.45	PASS
N5	15	10	DFT-QPSK	H	1RB1	24.67	17.52	38.45	PASS
N5	15	10	DFT-16QAM	H	1RB1	23.33	16.18	38.45	PASS
N5	15	5	DFT-QPSK	L	1RB1	24.68	17.53	38.45	PASS
N5	15	5	DFT-16QAM	L	1RB1	23.37	16.22	38.45	PASS
N5	15	5	DFT-QPSK	M	1RB1	24.82	17.67	38.45	PASS
N5	15	5	DFT-16QAM	M	1RB1	23.56	16.41	38.45	PASS
N5	15	5	DFT-QPSK	H	1RB1	24.58	17.43	38.45	PASS
N5	15	5	DFT-16QAM	H	1RB1	23.30	16.15	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	8.80	≤13	PASS
N5	15	20	CP-256QAM	L	Outer_Full	9.31	≤13	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	8.81	≤13	PASS
N5	15	20	CP-256QAM	M	Outer_Full	9.46	≤13	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	8.89	≤13	PASS
N5	15	20	CP-256QAM	H	Outer_Full	9.45	≤13	PASS



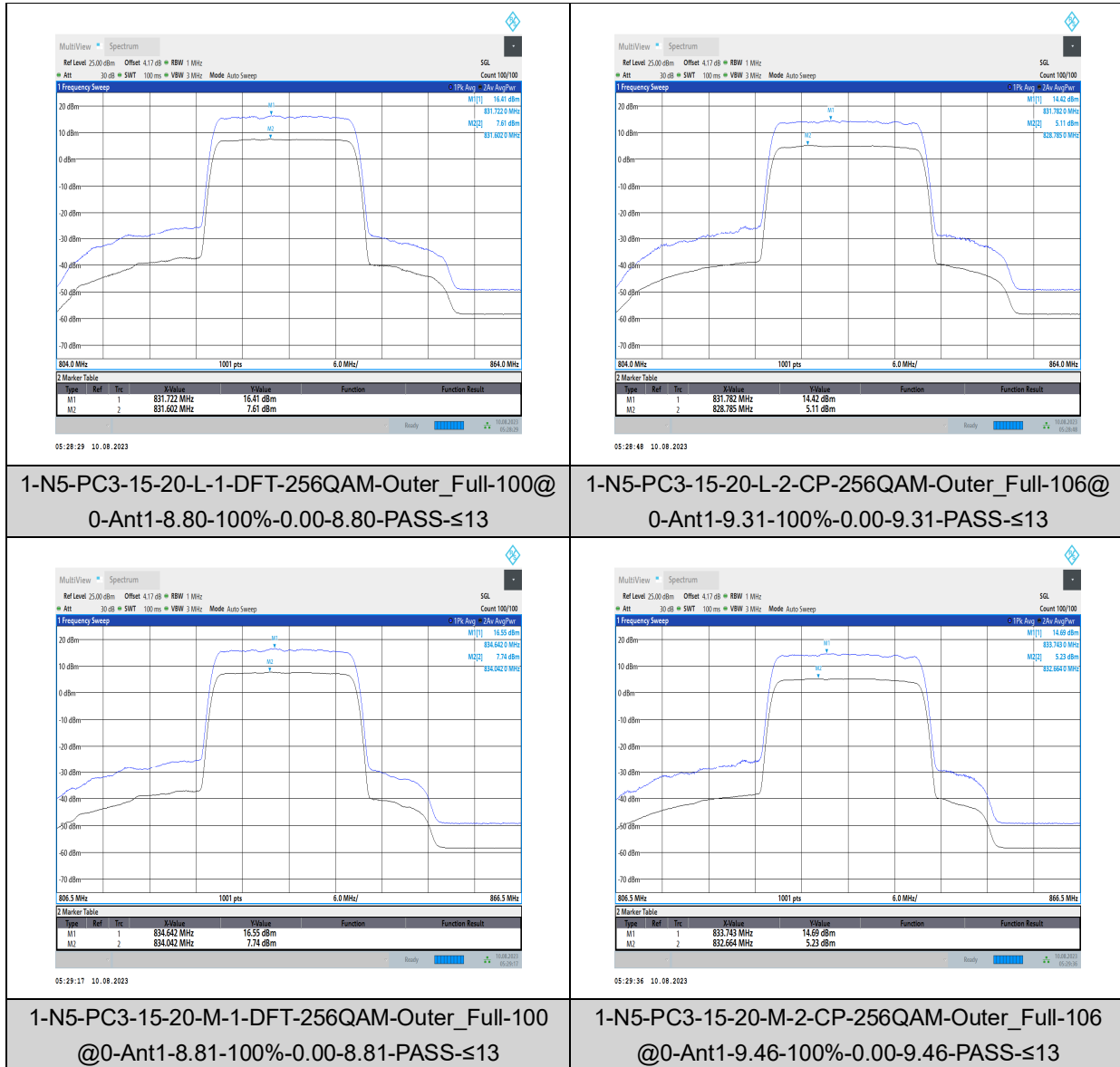
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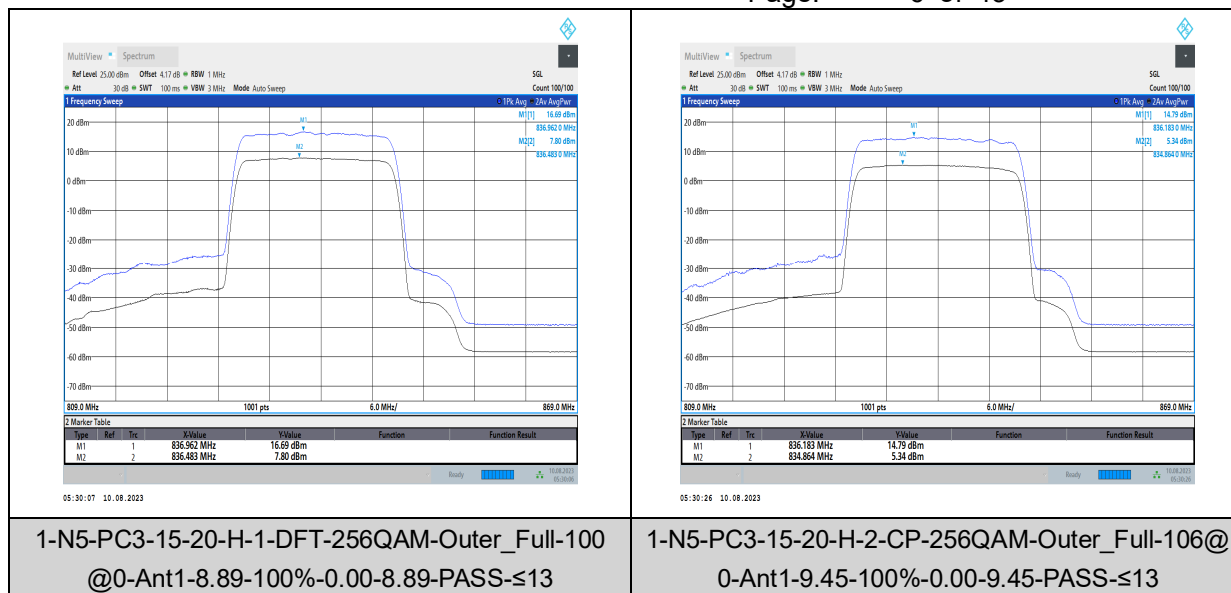
Test Graphs



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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
N5	15	5	DFT-QPSK	M	Outer_Full	4.478	4.900	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.465	4.900	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.476	5.020	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.466	4.980	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.486	5.060	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.48	5.120	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.509	5.120	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.48	4.990	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.479	4.950	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.93	9.560	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.893	9.620	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.916	9.560	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.944	9.720	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.911	9.640	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.287	10.140	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.27	9.980	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.256	9.840	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.281	9.980	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.426	14.340	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.444	14.400	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.442	14.250	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.386	14.400	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.447	14.370	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.074	14.970	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.096	15.120	PASS
N5	15	15	CP-64QAM	M	Outer_Full	14.119	15.090	PASS
N5	15	15	CP-256QAM	M	Outer_Full	14.113	15.090	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.831	18.840	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.866	18.880	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.821	18.720	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	17.864	18.680	PASS



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N5	15	20	DFT-256QAM	M	Outer_Full	17.854	18.640	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.916	19.760	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.857	19.960	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.885	19.880	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.853	19.720	PASS



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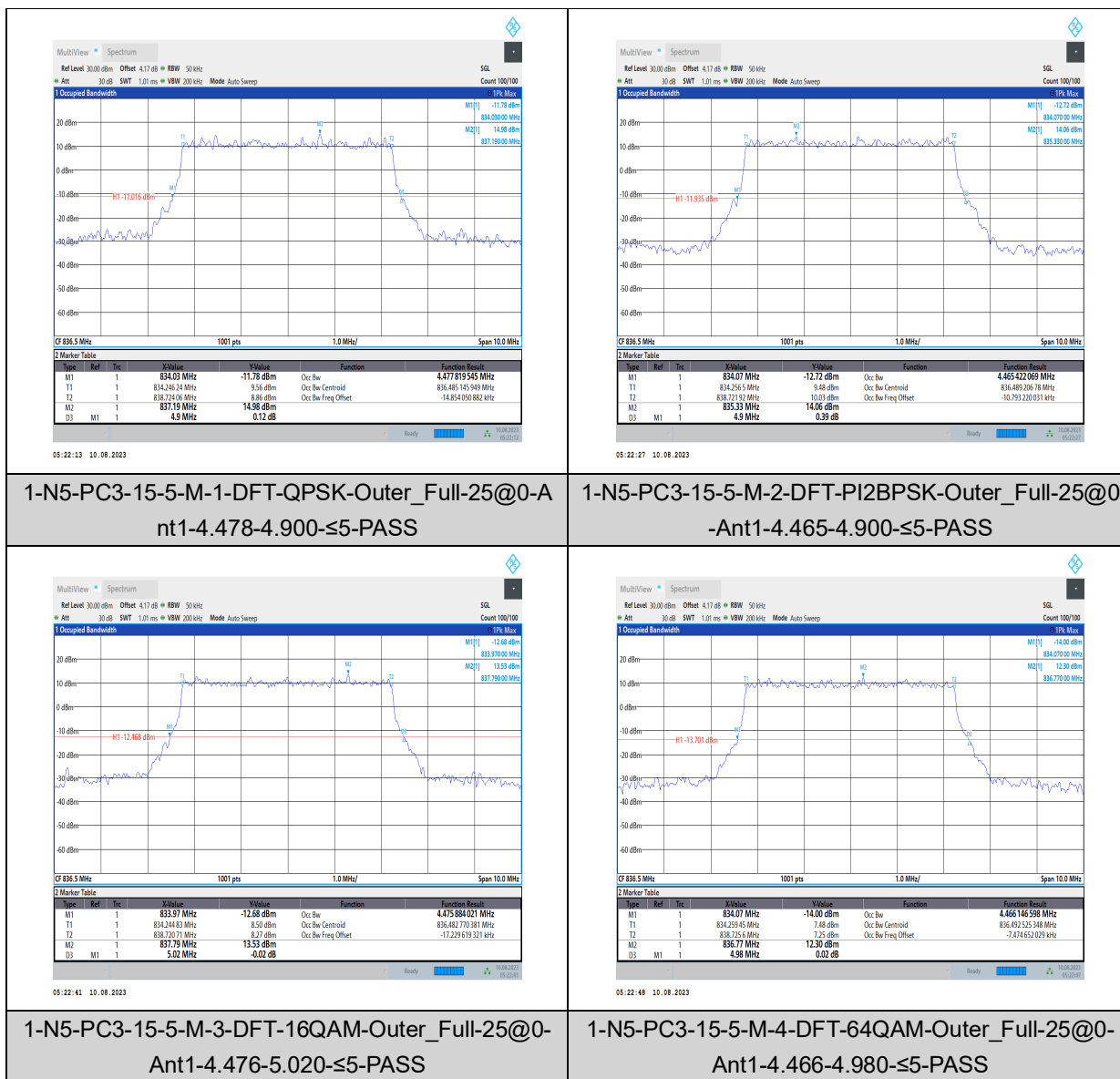
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Test Graphs

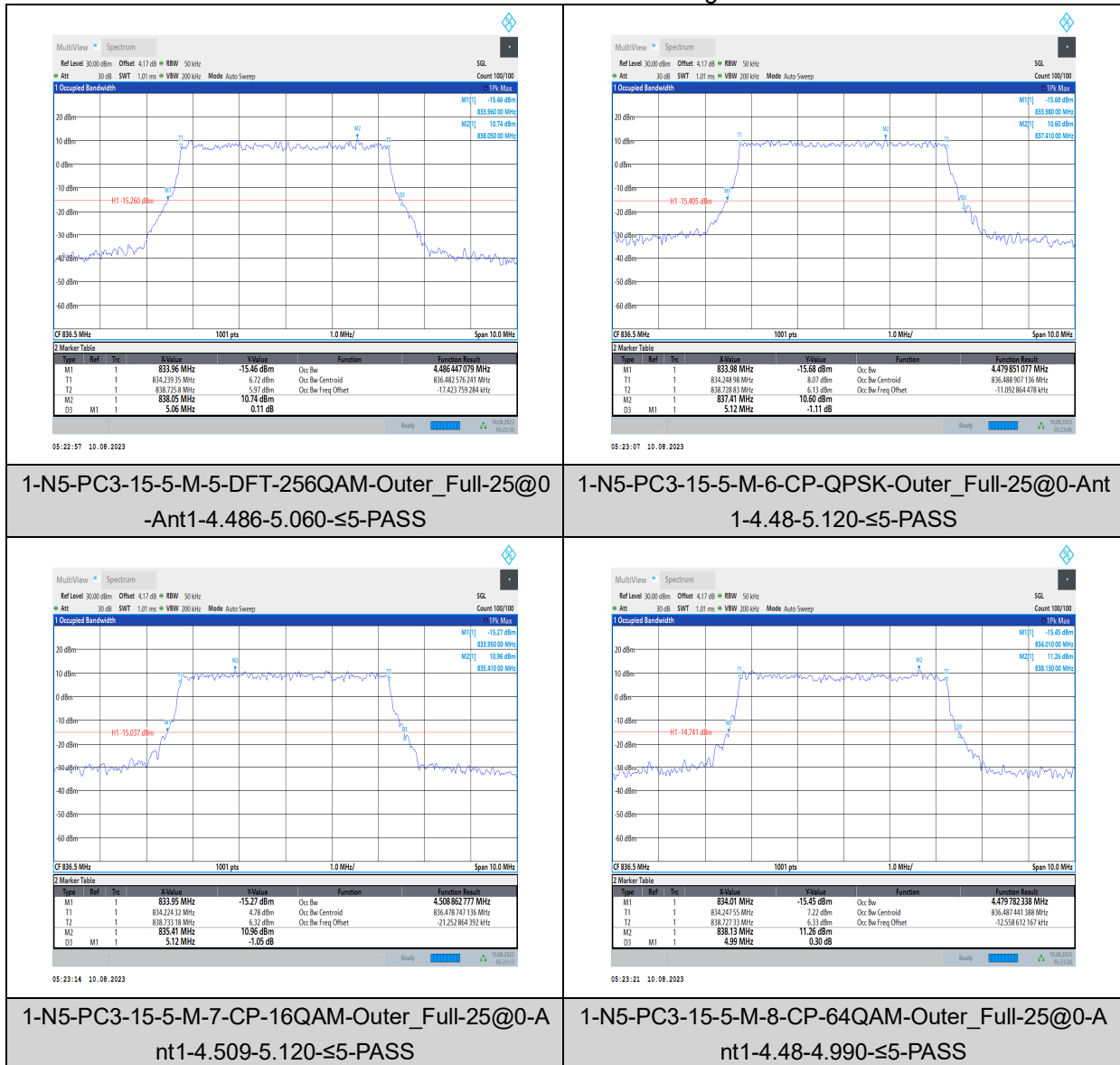




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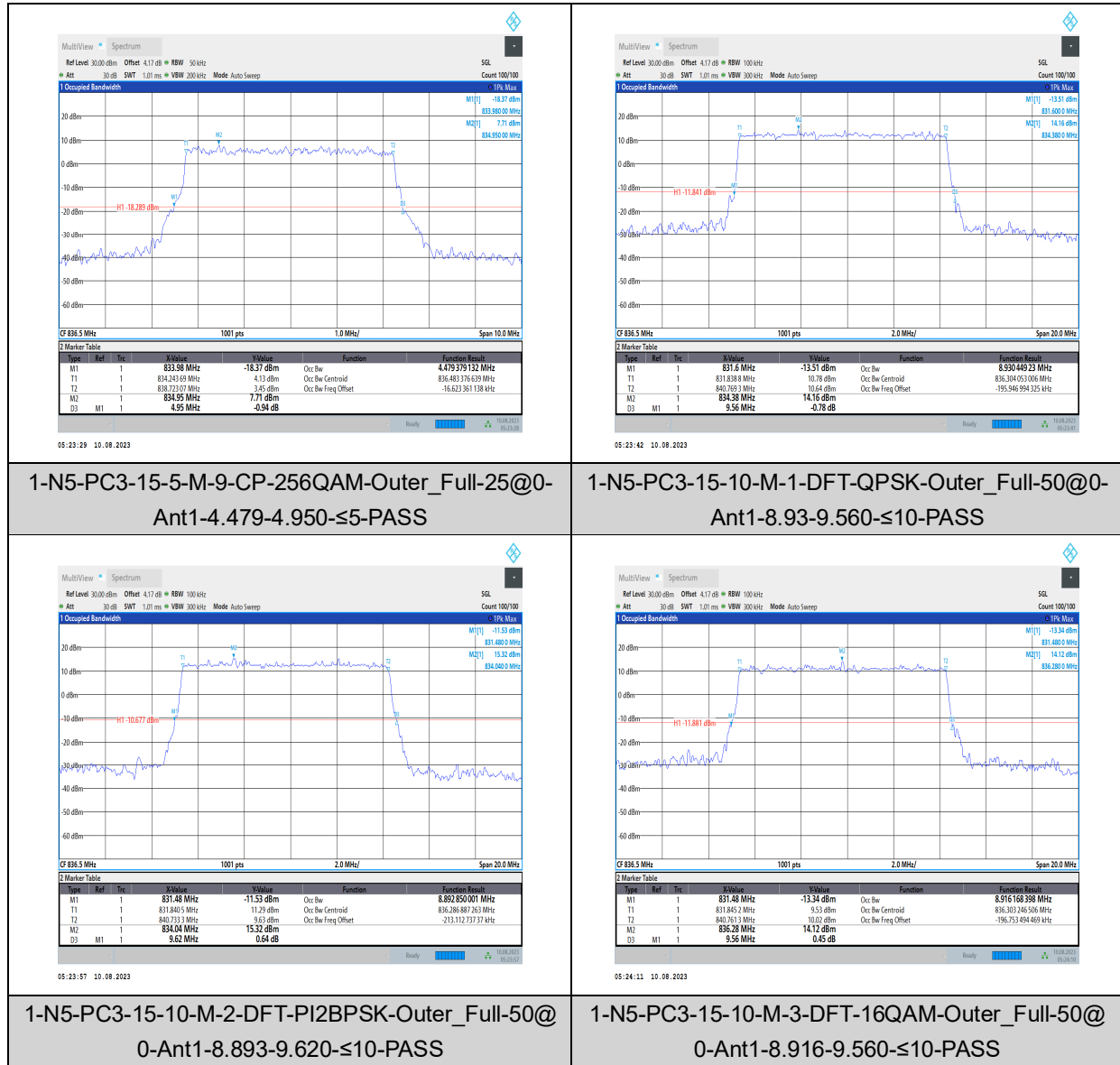
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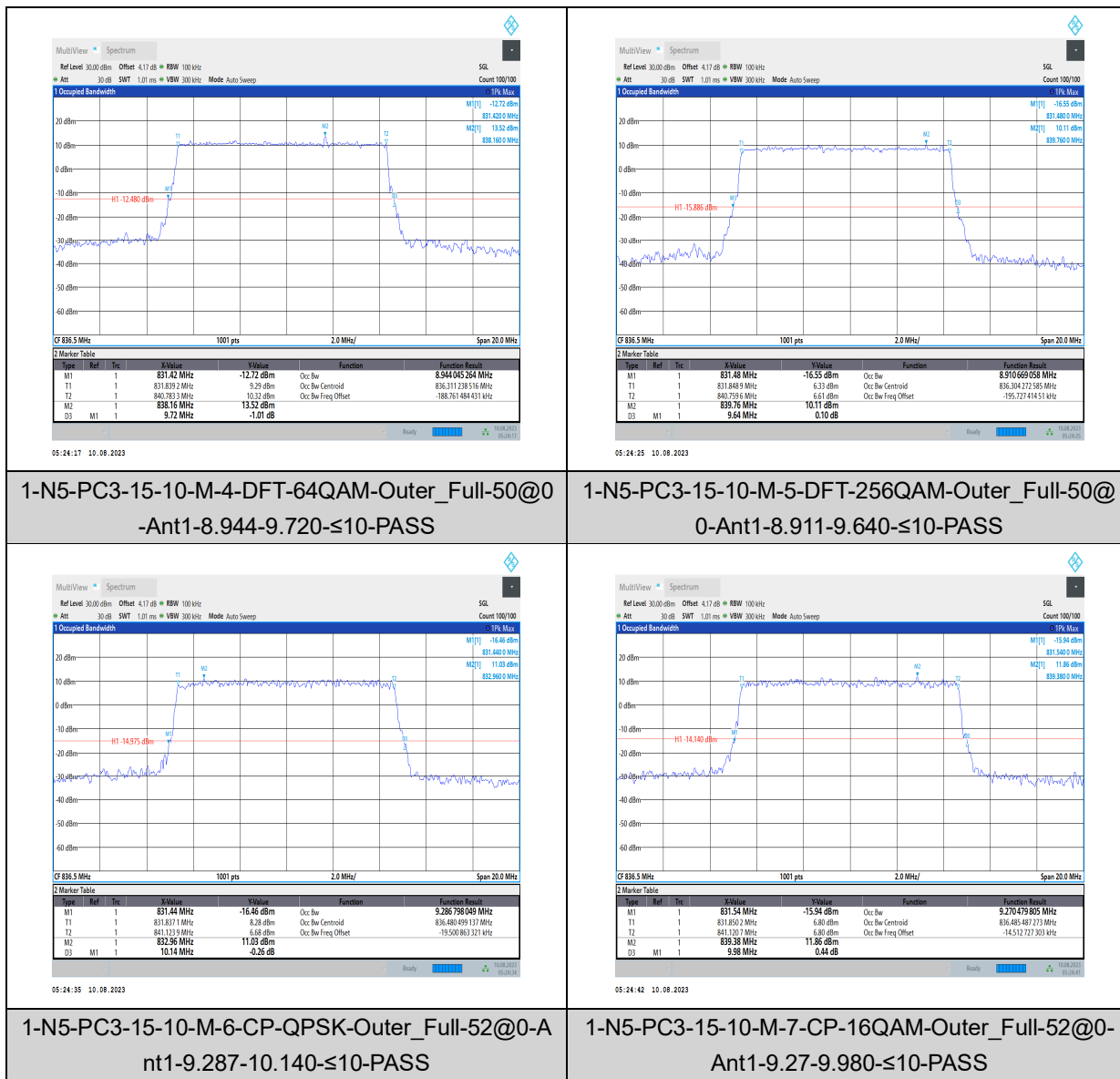


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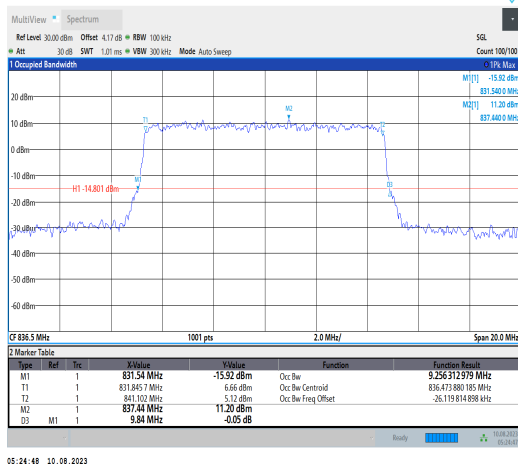
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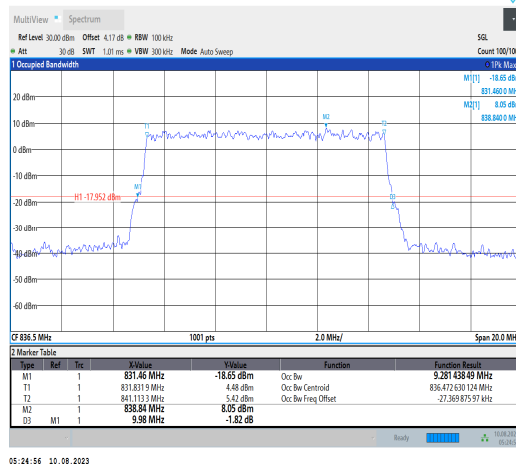
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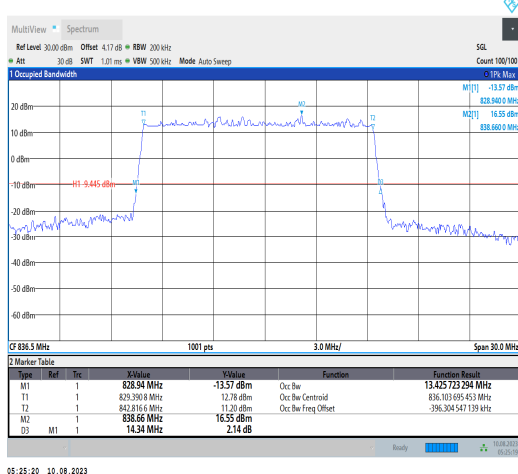
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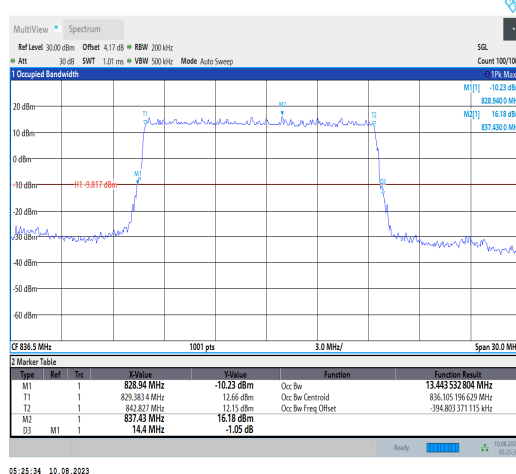
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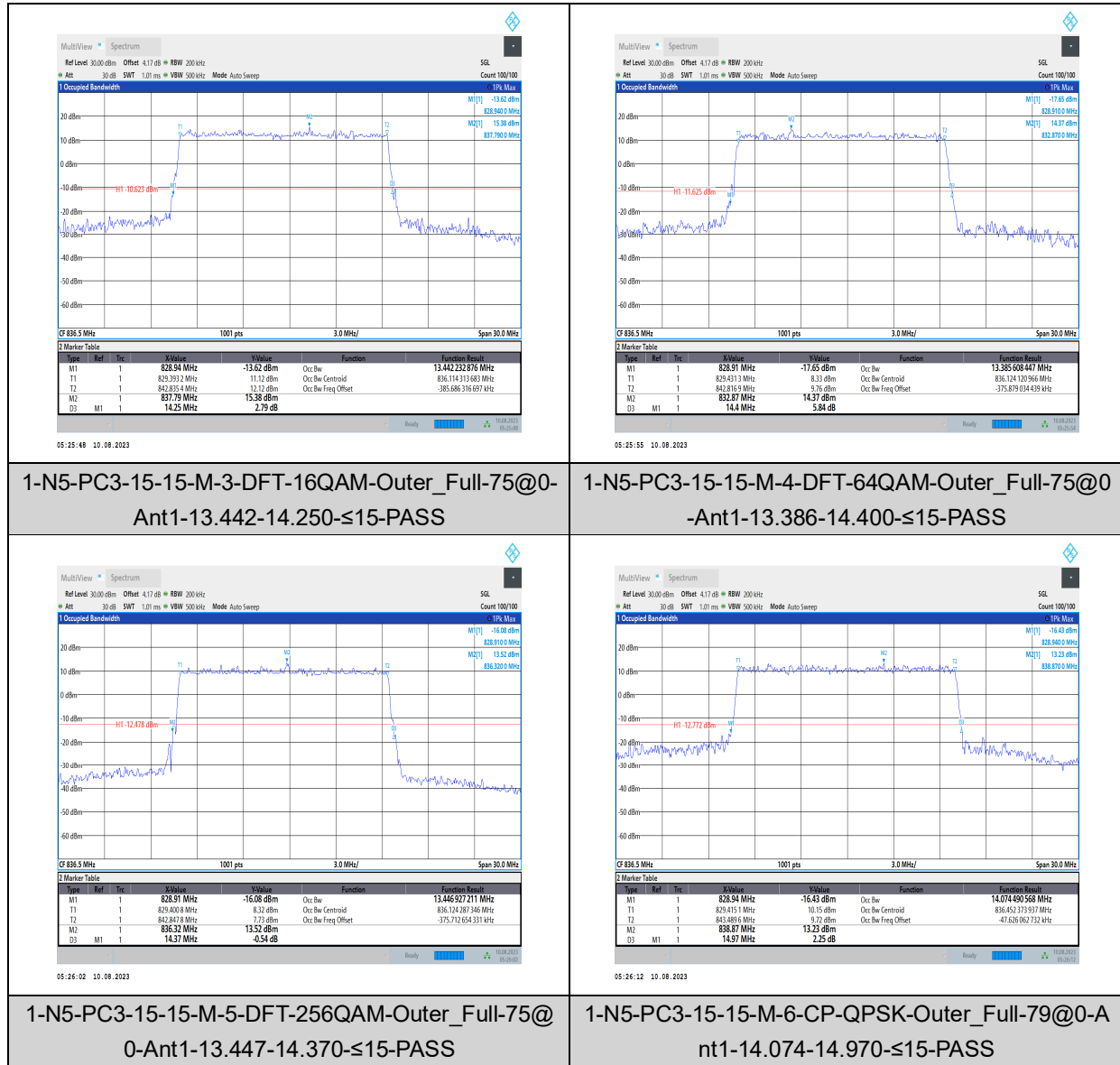
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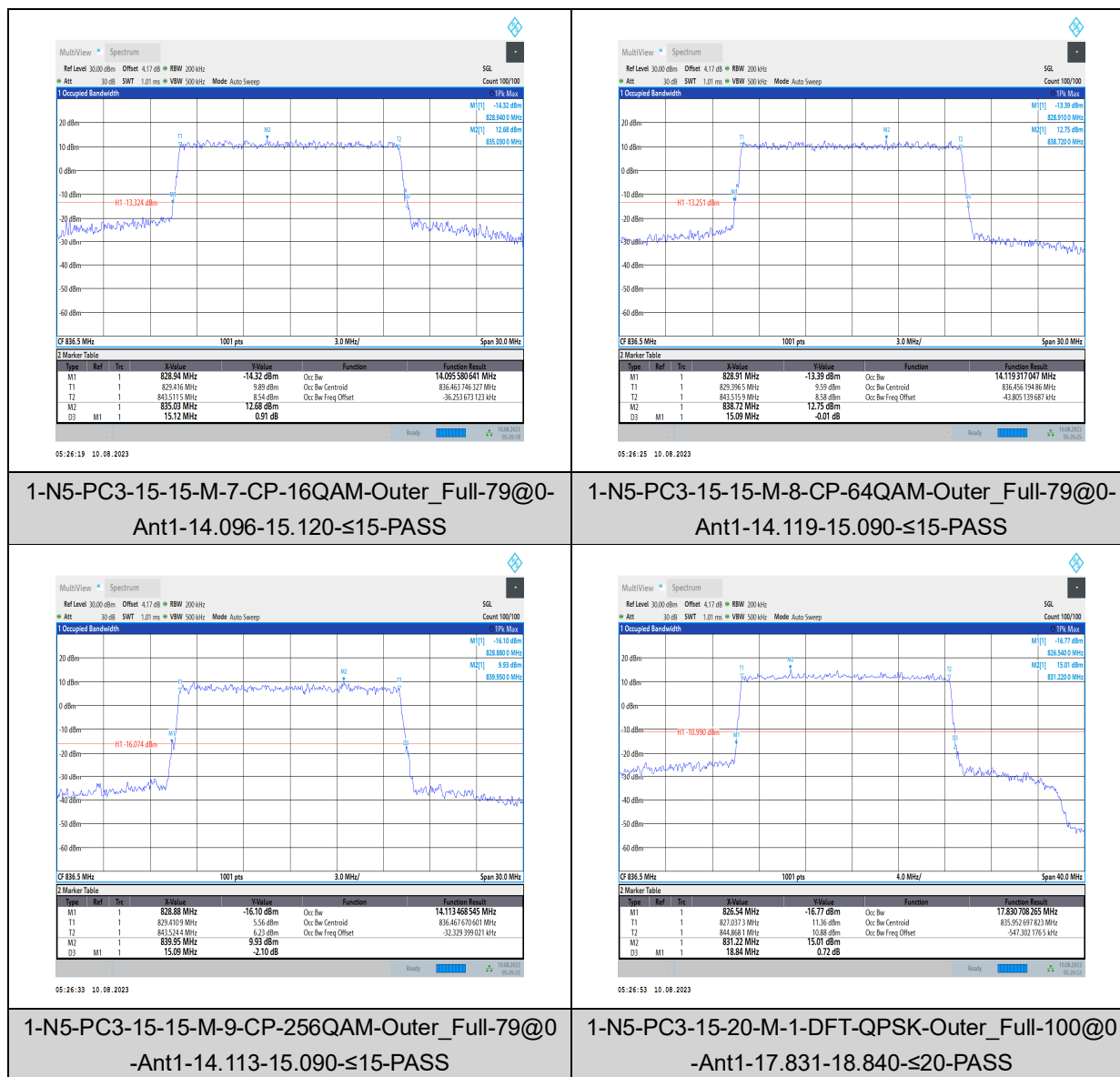


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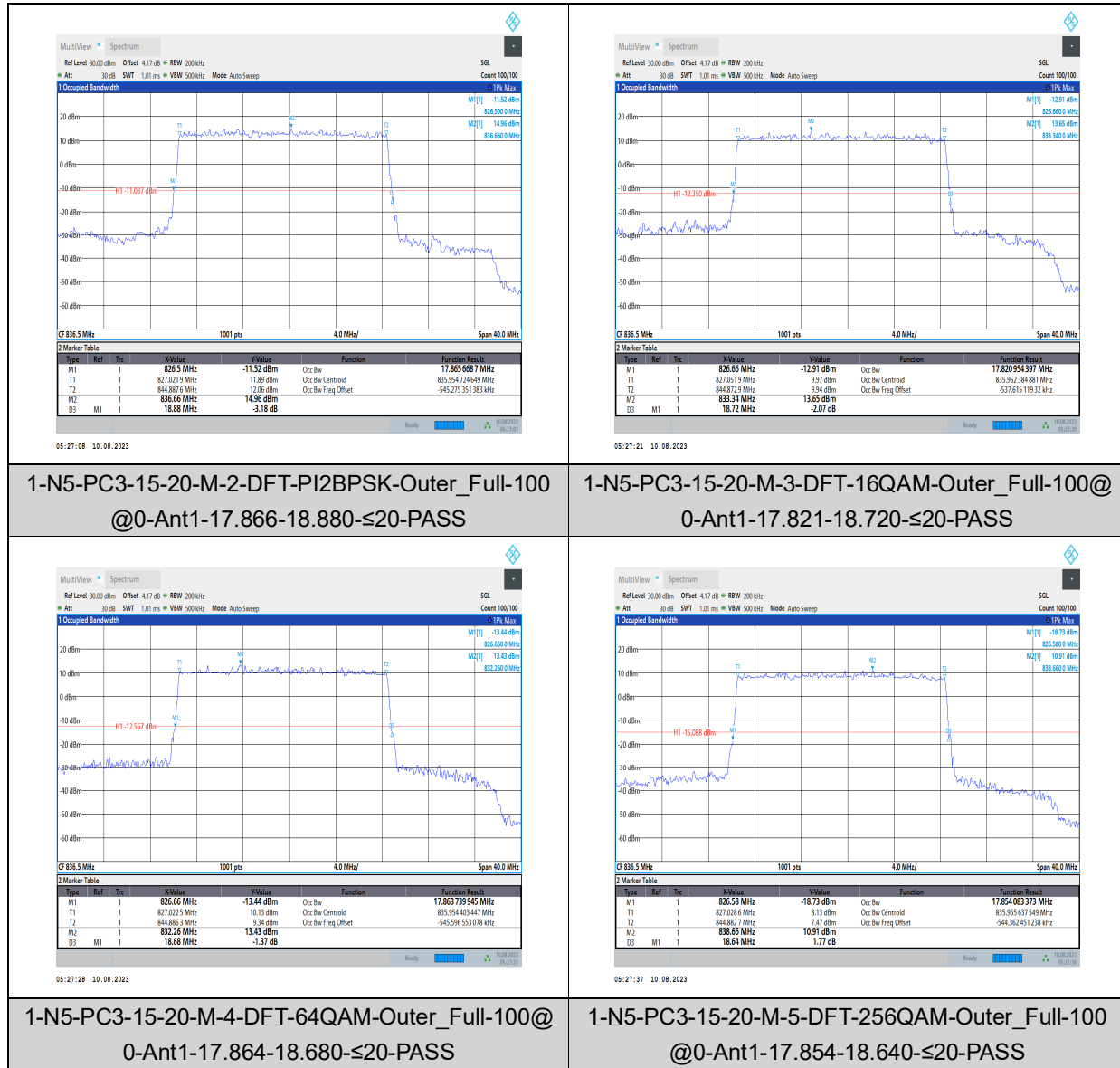
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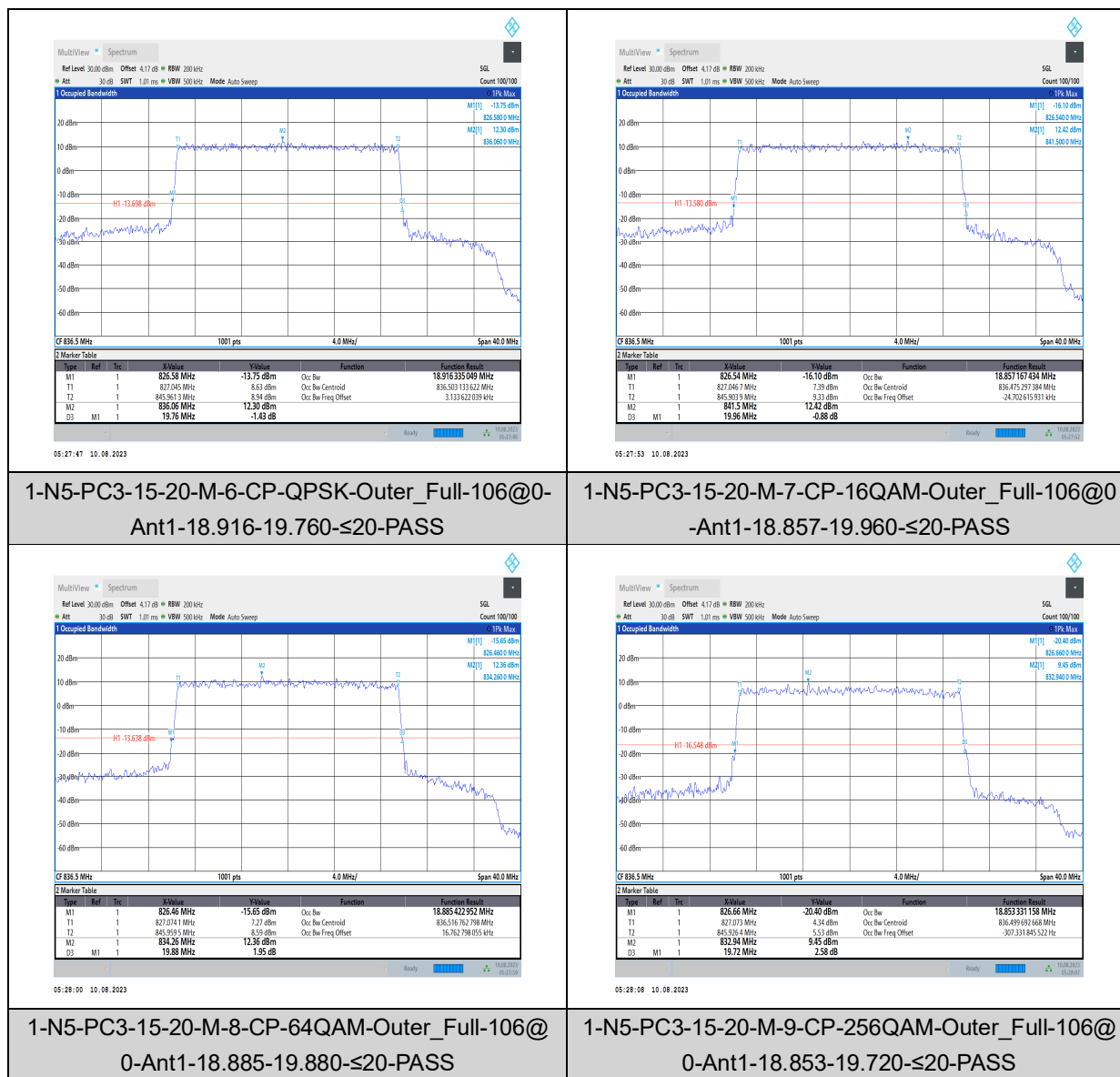
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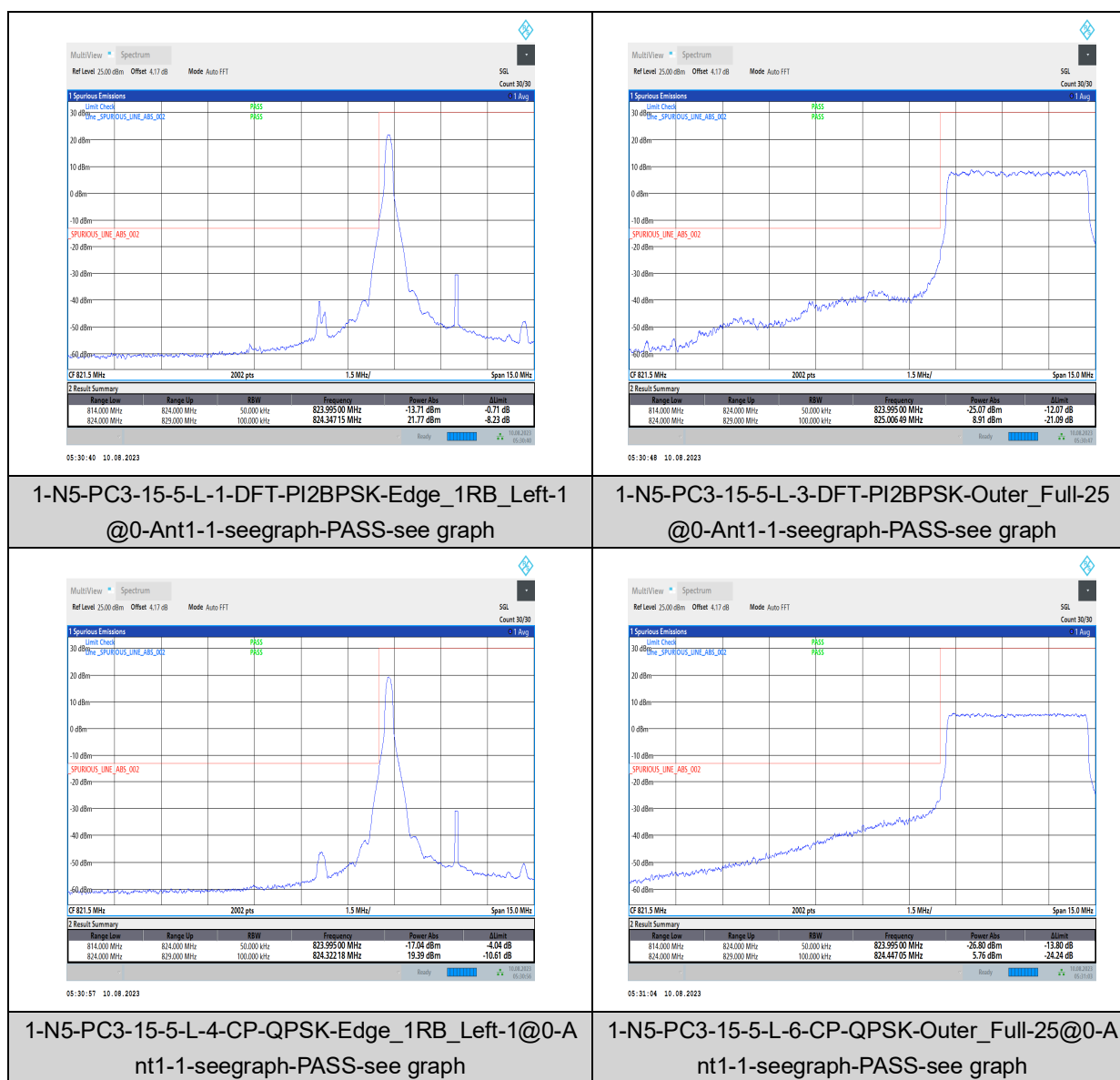
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Band Edge for SA

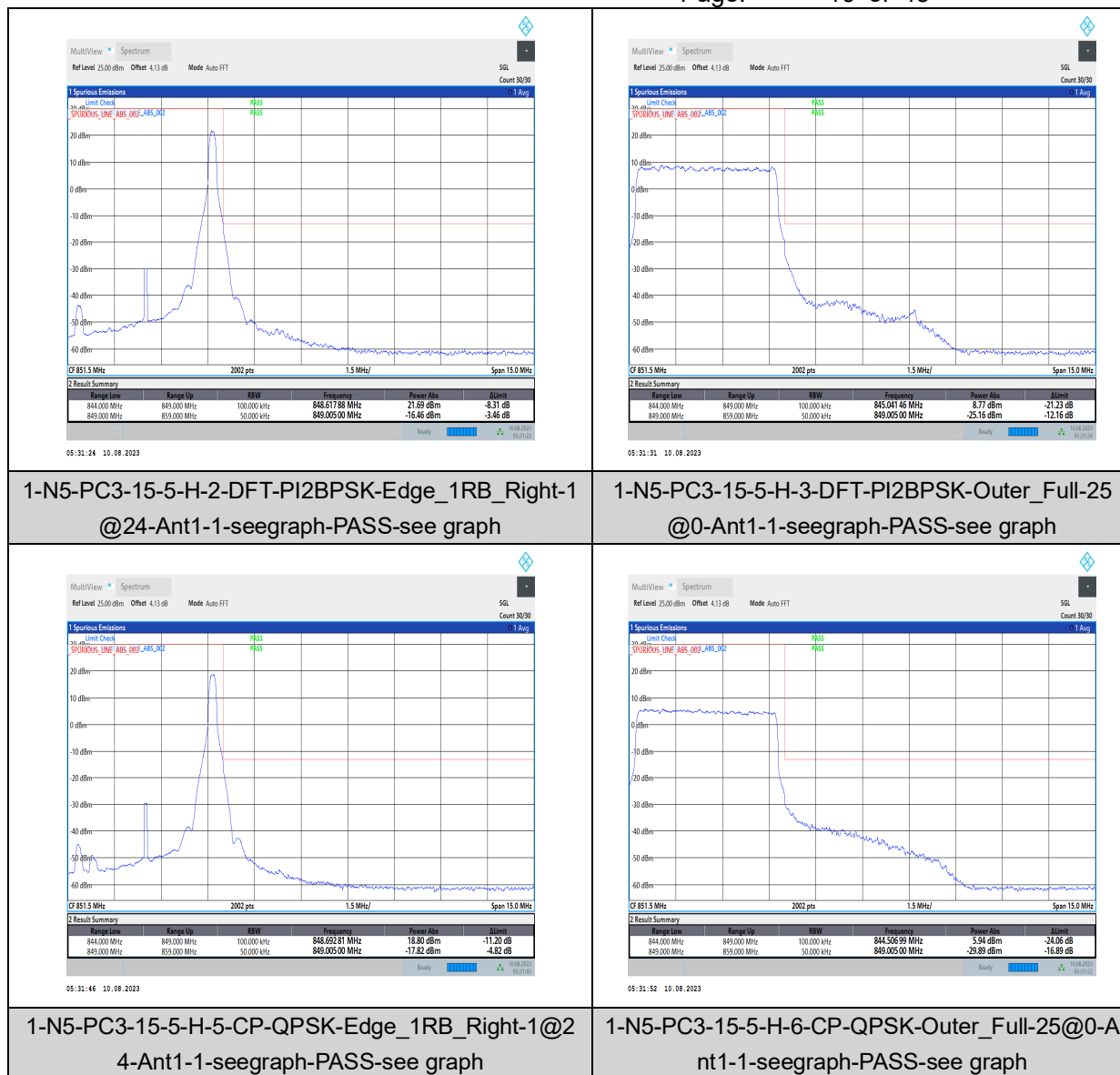
Test Graphs



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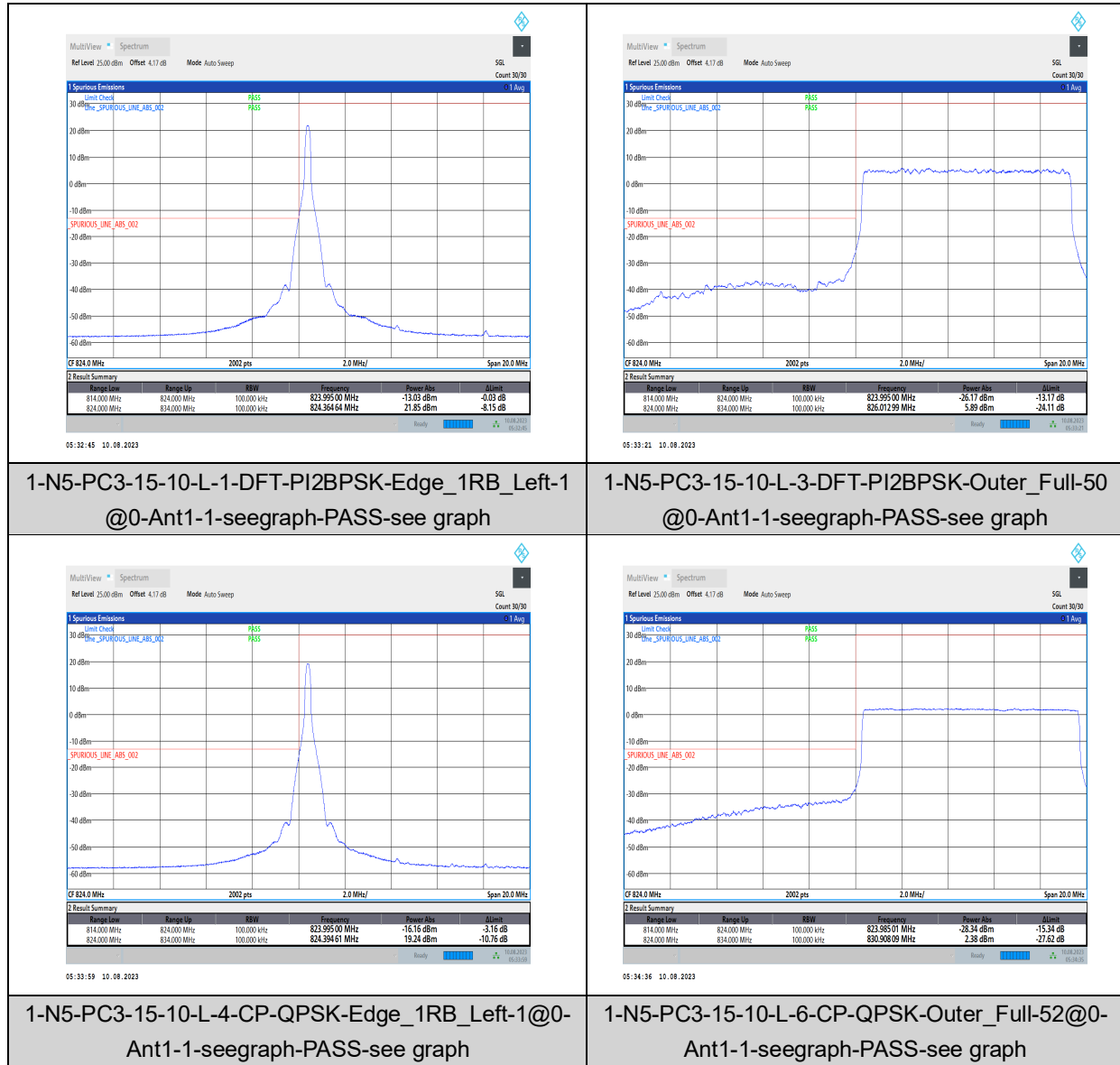
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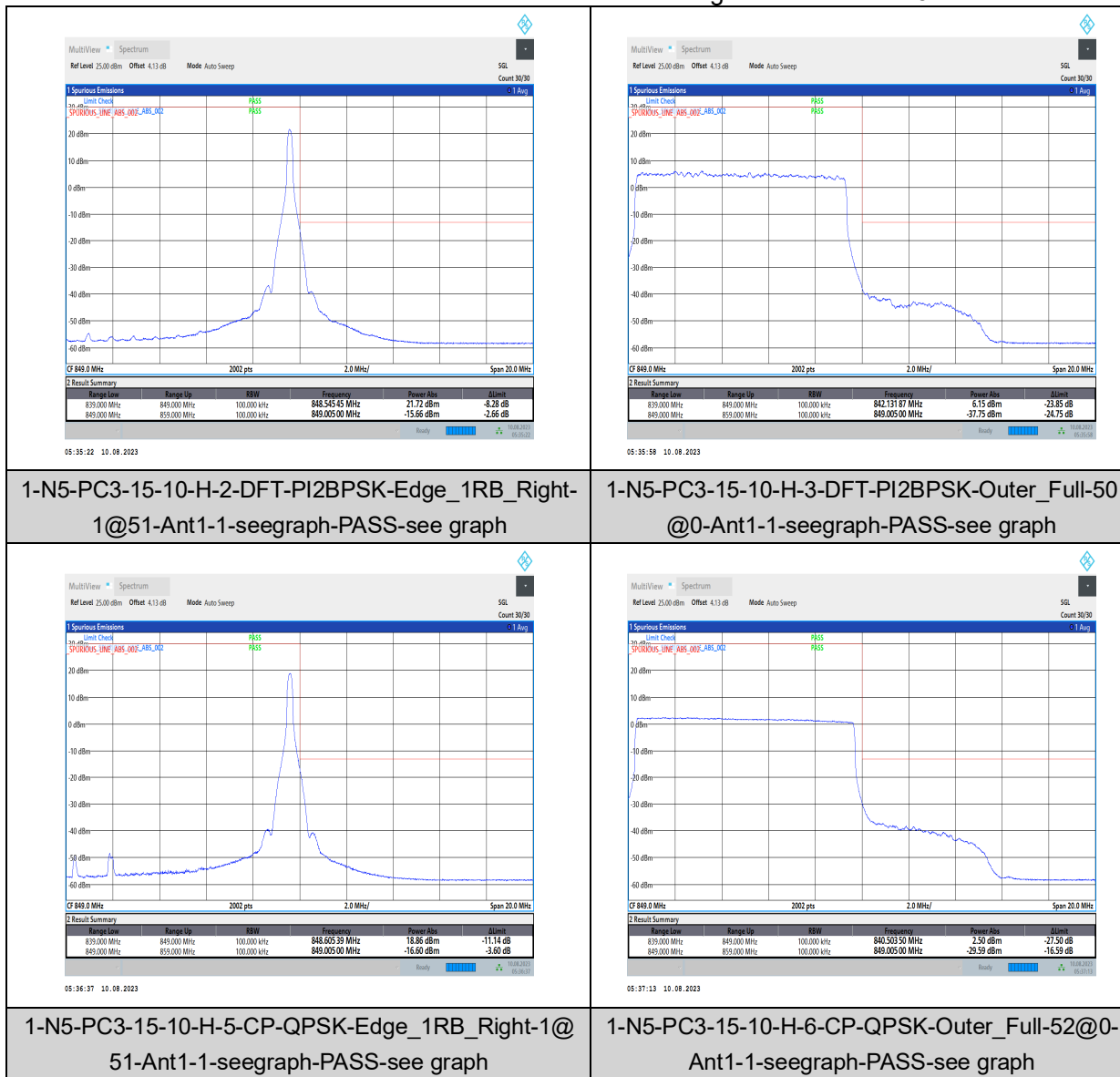
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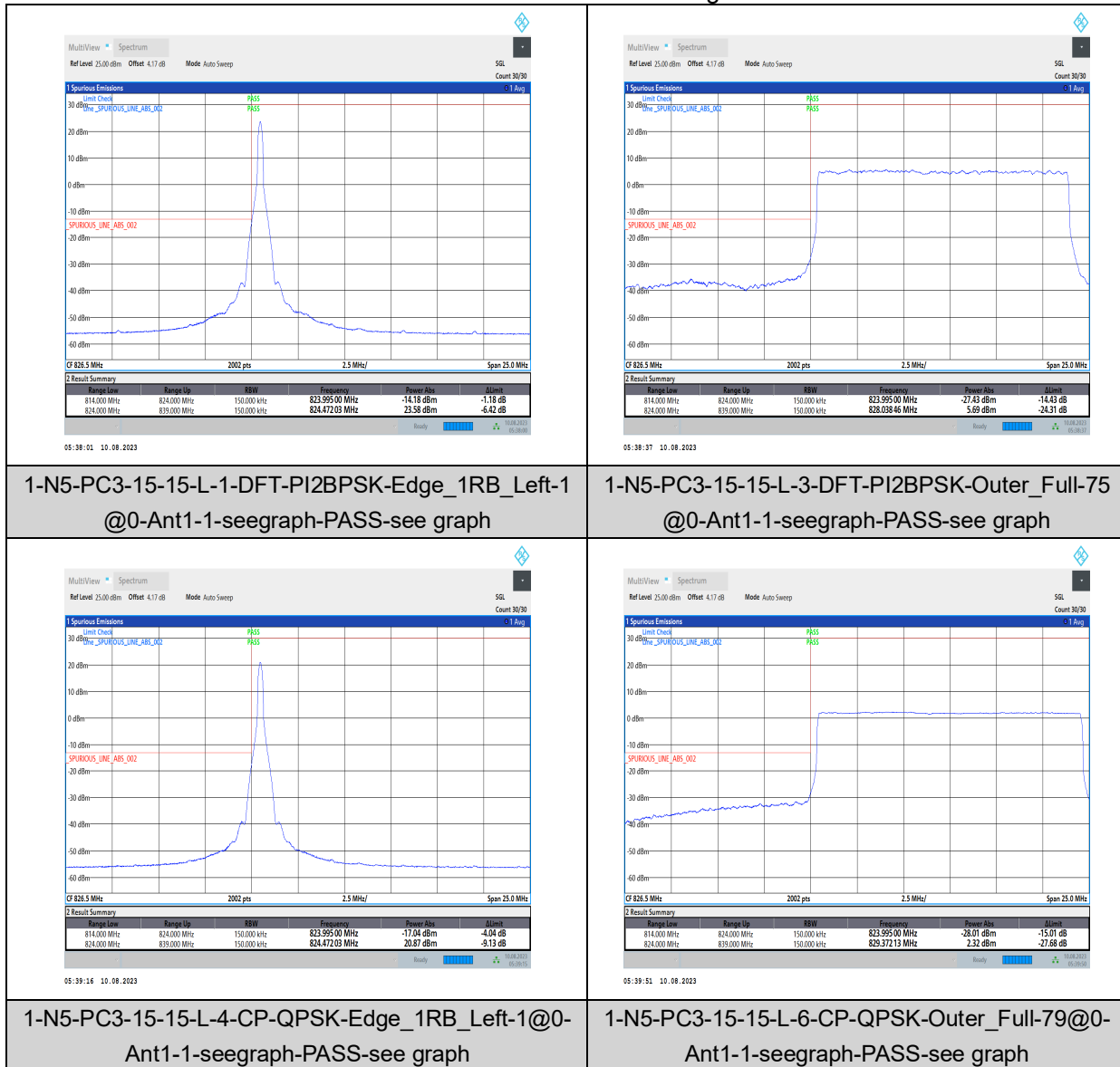
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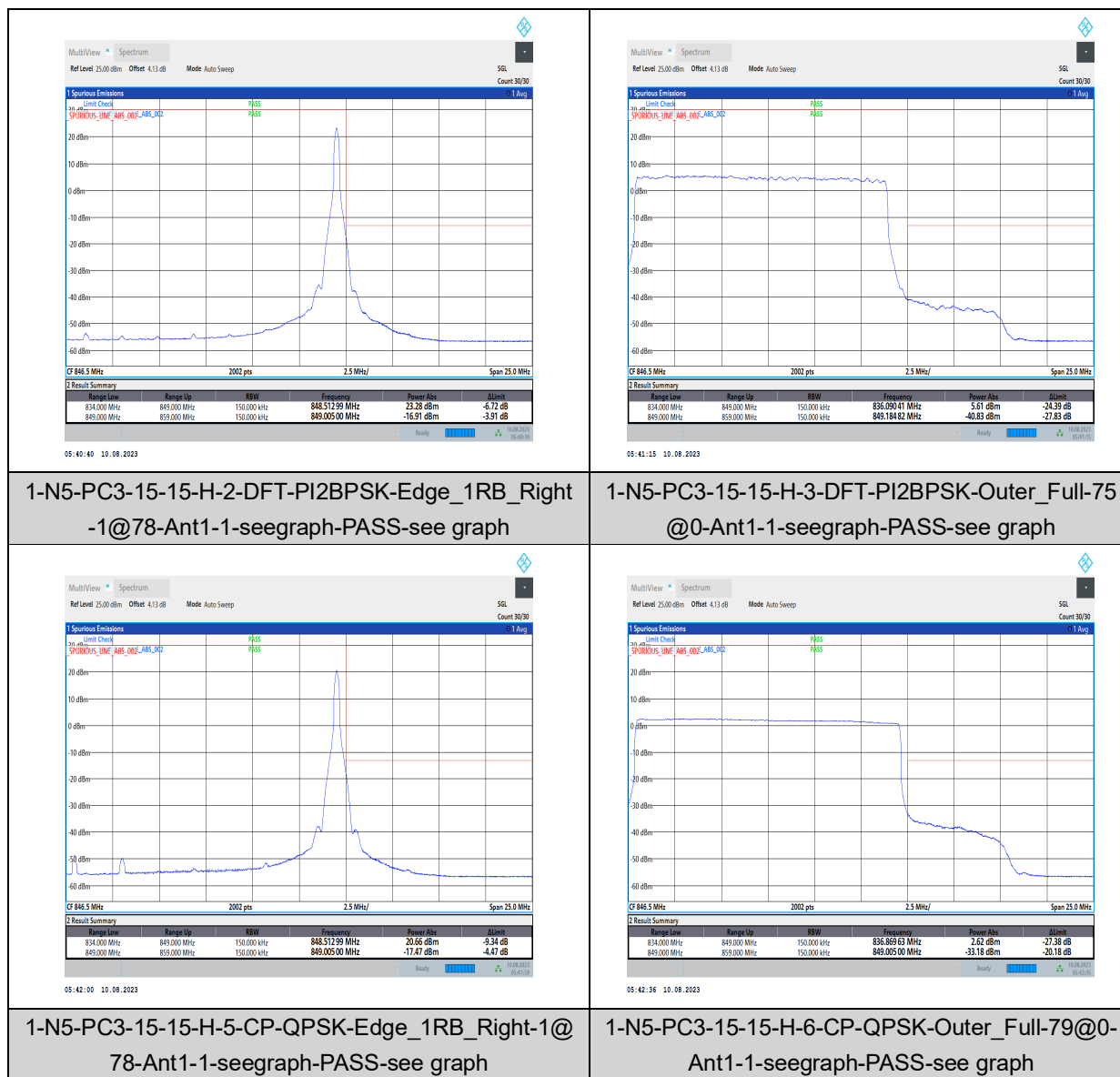


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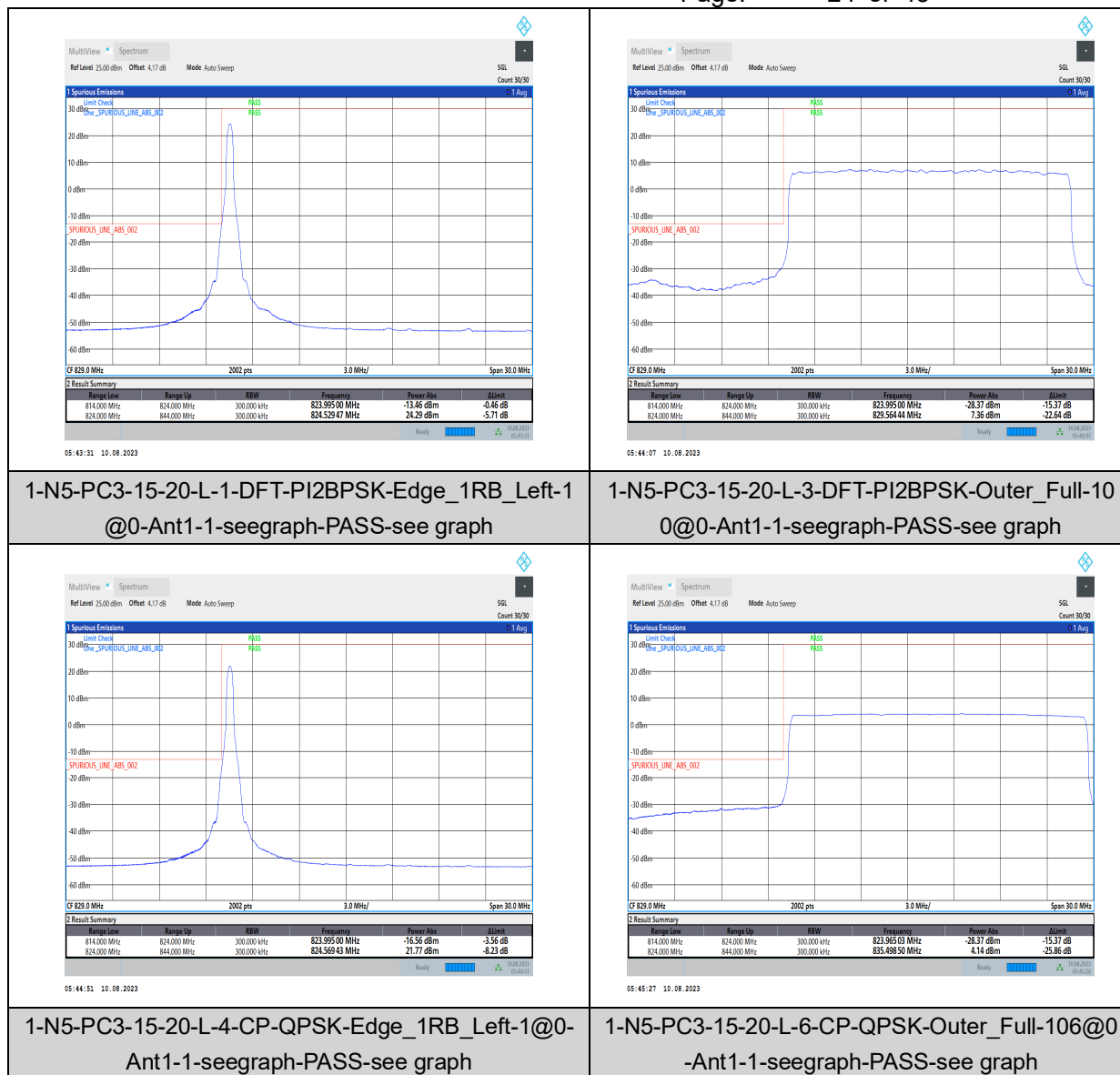




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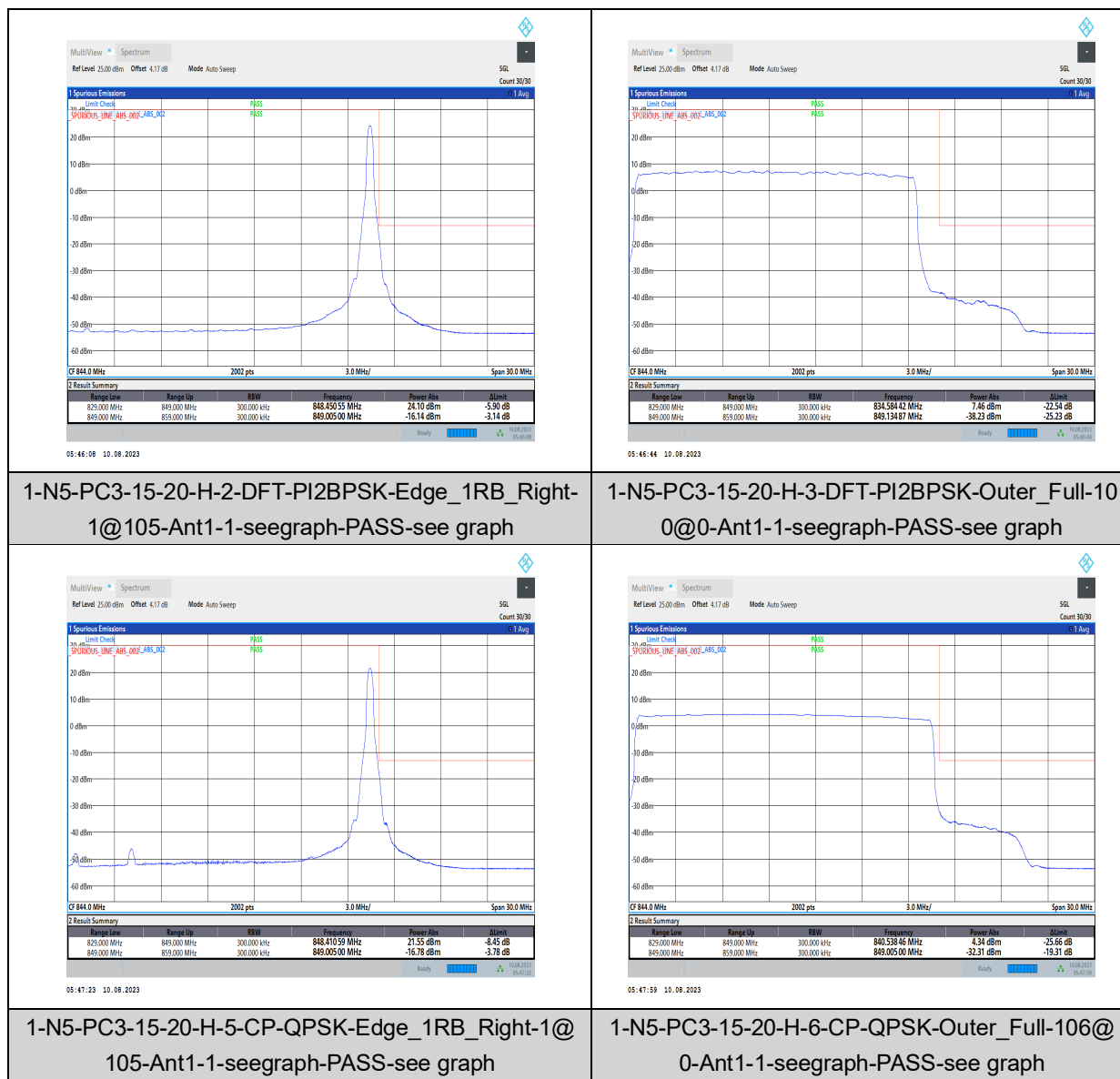


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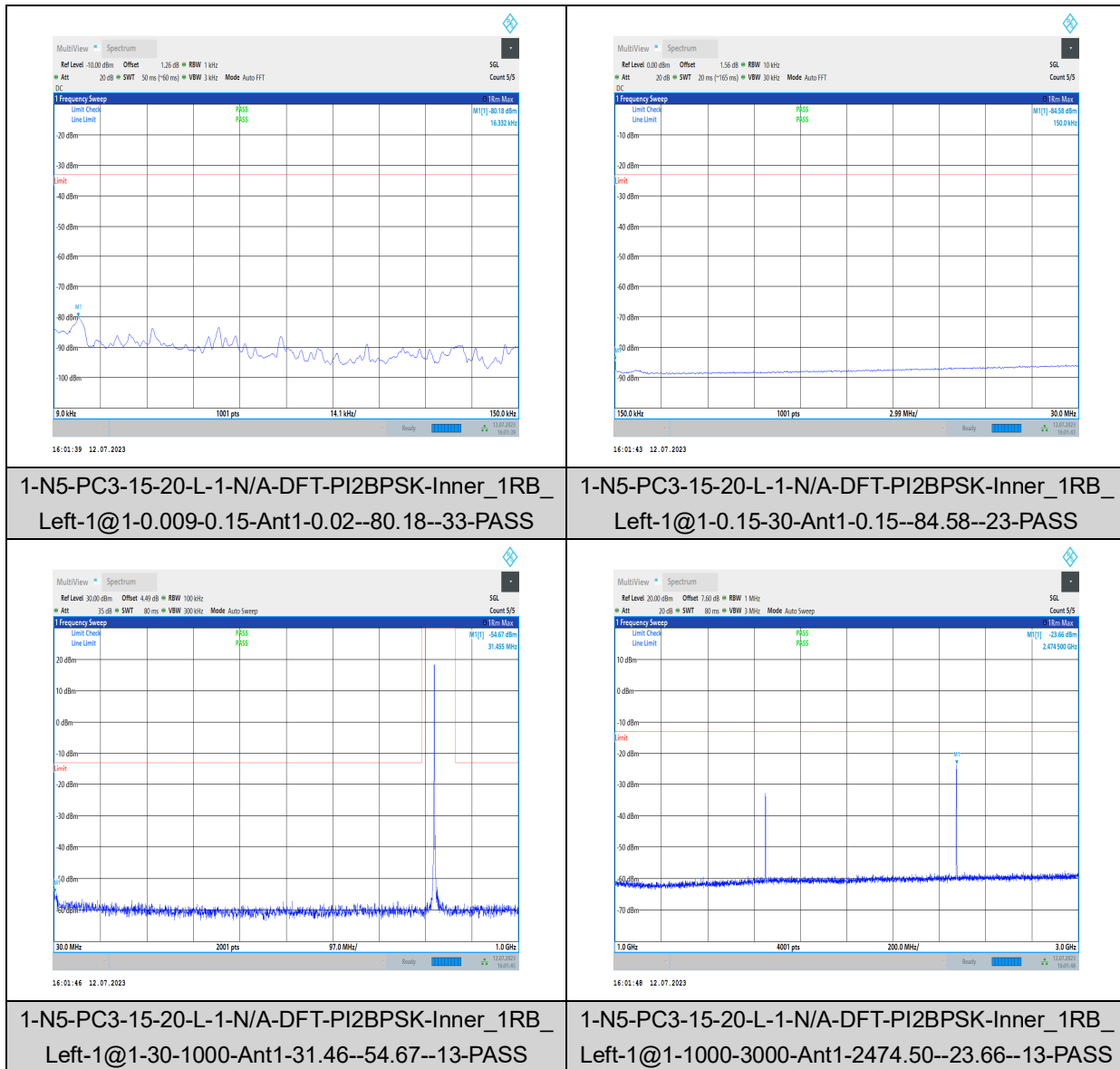
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Conducted Spurious Emission for SA

Test Graphs



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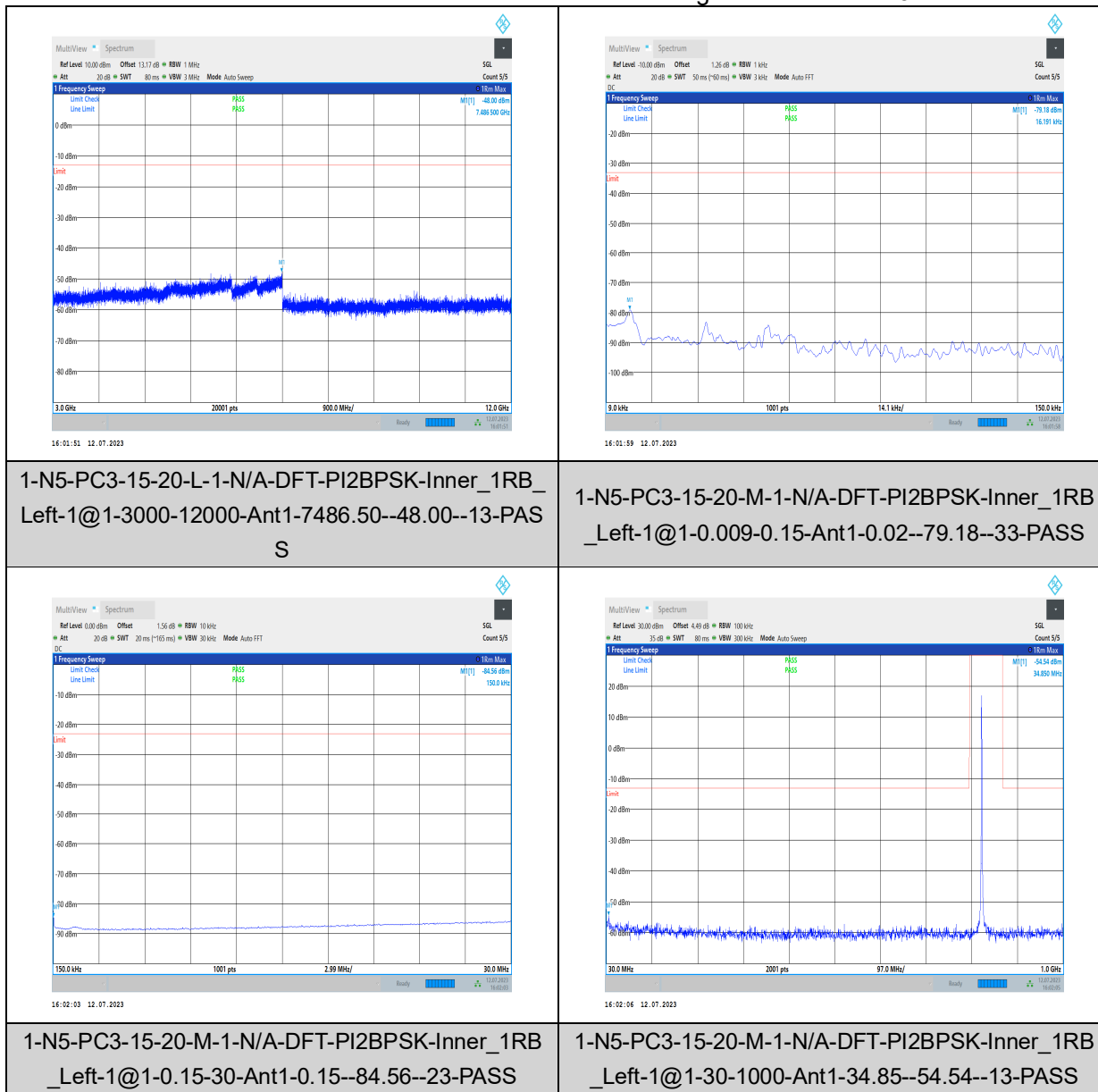
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Report No.: SEWM2307000261RG02

Rev.: 01

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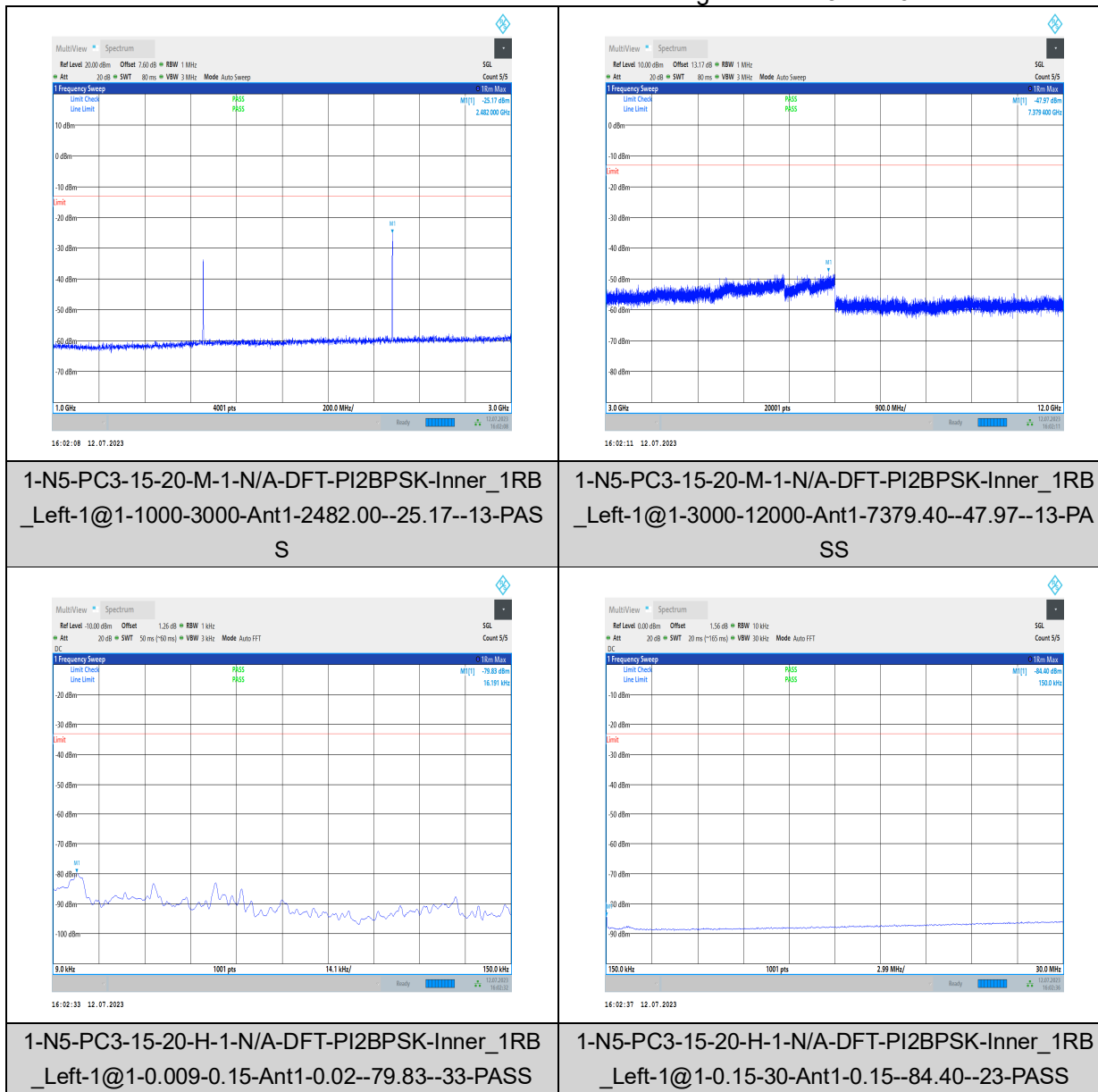
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Report No.: SEWM2307000261RG02

Rev.: 01

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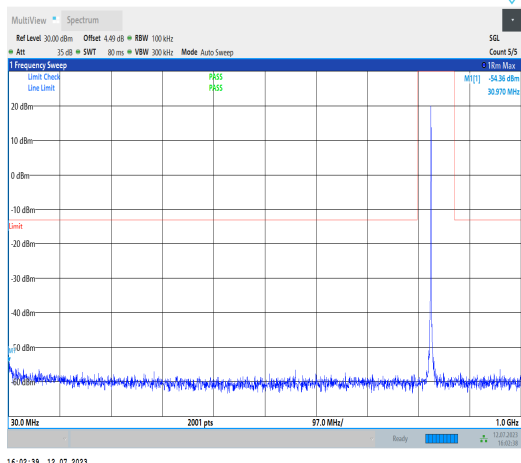
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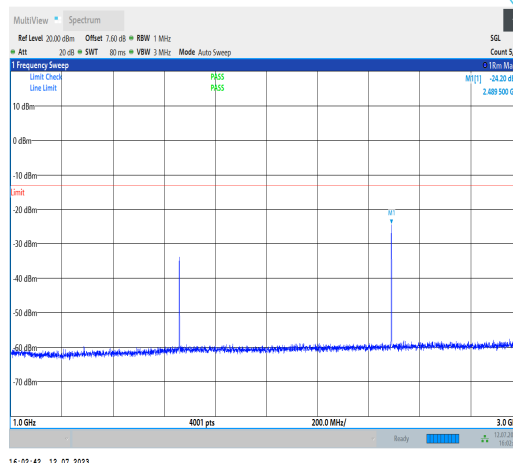
Report No.: SEWM2307000261RG02

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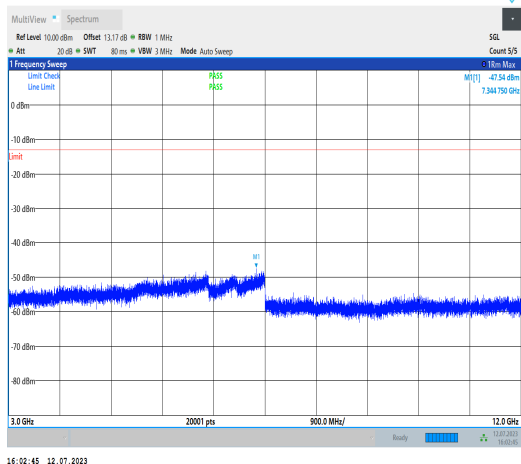
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1-N5-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB
_Left-1@1-30-1000-Ant1-30.97--54.36--13-PASS



1-N5-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB
_Left-1@1-1000-3000-Ant1-2489.50--24.20--13-PAS
S



1-N5-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB
_Left-1@1-3000-12000-Ant1-7344.75--47.54--13-PA
SS



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Field Strength of Spurious Radiation

Test Band = NR_Band 5_ Ant 0TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1657.3333	46.56	-49.81	25.33	-73.18	-13.00	60.18	218	169	Vertical
2	2480	51.37	-49.02	27.28	-65.63	-13.00	52.63	263	147	Vertical
3	3300.36	44.51	-48.63	28.62	-70.76	-13.00	57.76	225	307	Vertical
4	4125.45	43.59	-48.29	29.63	-70.33	-13.00	57.33	152	41	Vertical
5	4950.54	43.12	-48.06	31.38	-68.82	-13.00	55.82	146	85	Vertical
6	5775.63	42.85	-47.67	32.76	-67.32	-13.00	54.32	213	147	Vertical

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	45.32	-49.82	25.30	-74.46	-13.00	61.46	284	123	Horizontal
2	2475.27	44.40	-49.04	27.27	-72.63	-13.00	59.63	169	240	Horizontal
3	3300.36	44.33	-48.63	28.62	-70.94	-13.00	57.94	223	292	Horizontal
4	4125.45	43.67	-48.29	29.63	-70.25	-13.00	57.25	165	234	Horizontal
5	4950.54	43.15	-48.06	31.38	-68.79	-13.00	55.79	196	359	Horizontal
6	5775.63	42.85	-47.67	32.76	-67.32	-13.00	54.32	227	141	Horizontal



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Test Band = NR_Band 5_Ant 0TM1

Test Channel = Mid Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	45.03	-49.81	25.32	-74.72	-13.00	61.72	214	170	Vertical
2	2482.77	44.92	-49.00	27.28	-72.06	-13.00	59.06	185	202	Vertical
3	3310.36	44.33	-48.64	28.62	-70.94	-13.00	57.94	299	290	Vertical
4	4137.95	43.59	-48.30	29.65	-70.32	-13.00	57.32	163	180	Vertical
5	4965.54	43.15	-48.03	31.42	-68.72	-13.00	55.72	218	277	Vertical
6	5793.13	43.20	-47.71	32.76	-67.01	-13.00	54.01	114	42	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	52.38	-49.02	27.28	-64.62	-13.00	51.62	284	310	Horizontal
2	1655.18	44.98	-49.81	25.32	-74.77	-13.00	61.77	196	106	Horizontal
3	3310.36	44.38	-48.64	28.62	-70.89	-13.00	57.89	235	333	Horizontal
4	4137.95	43.62	-48.30	29.65	-70.29	-13.00	57.29	277	84	Horizontal
5	4965.54	43.73	-48.03	31.42	-68.14	-13.00	55.14	146	177	Horizontal
6	5793.13	43.17	-47.71	32.76	-67.04	-13.00	54.04	214	26	Horizontal



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Test Band = NR_Band 5_Ant 0TM1

Test Channel = High Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	45.31	-49.80	25.34	-74.41	-13.00	61.41	284	176	Vertical
2	2490.27	45.03	-48.95	27.29	-71.90	-13.00	58.90	184	8	Vertical
3	3320.36	44.06	-48.64	28.63	-71.21	-13.00	58.21	155	150	Vertical
4	4150.45	44.21	-48.31	29.67	-69.69	-13.00	56.69	162	261	Vertical
5	4980.54	43.22	-48.00	31.45	-68.59	-13.00	55.59	172	291	Vertical
6	5810.63	42.88	-47.65	32.76	-67.26	-13.00	54.26	223	0	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	45.33	-49.80	25.34	-74.39	-13.00	61.39	218	266	Horizontal
2	2490.27	45.54	-48.95	27.29	-71.39	-13.00	58.39	159	48	Horizontal
3	3320.36	43.91	-48.64	28.63	-71.36	-13.00	58.36	263	329	Horizontal
4	4150.45	43.55	-48.31	29.67	-70.35	-13.00	57.35	144	182	Horizontal
5	4980.54	43.68	-48.00	31.45	-68.13	-13.00	55.13	173	358	Horizontal
6	5810.63	43.05	-47.65	32.76	-67.09	-13.00	54.09	216	48	Horizontal



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Test Band = NR Band 5_Ant 1TM1

Test Channel = Low Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	45.63	-49.82	25.30	-74.15	-13.00	61.15	129	116	Vertical
2	2475.27	44.79	-49.04	27.27	-72.24	-13.00	59.24	265	0	Vertical
3	3300.36	44.67	-48.63	28.62	-70.60	-13.00	57.60	185	0	Vertical
4	4125.45	43.66	-48.29	29.63	-70.26	-13.00	57.26	163	83	Vertical
5	4950.54	43.41	-48.06	31.38	-68.53	-13.00	55.53	234	111	Vertical
6	5775.63	44.03	-47.67	32.76	-66.14	-13.00	53.14	228	227	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	45.88	-49.82	25.30	-73.90	-13.00	60.90	229	266	Horizontal
2	2475.27	44.67	-49.04	27.27	-72.36	-13.00	59.36	171	75	Horizontal
3	3300.36	44.99	-48.63	28.62	-70.28	-13.00	57.28	146	262	Horizontal
4	4125.45	43.41	-48.29	29.63	-70.51	-13.00	57.51	238	360	Horizontal
5	4950.54	43.76	-48.06	31.38	-68.18	-13.00	55.18	149	354	Horizontal
6	5775.63	43.26	-47.67	32.76	-66.91	-13.00	53.91	264	195	Horizontal



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**Test Band = NR Band 5_ Ant 1TM1****Test Channel = Mid Channel****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2222	60.06	-49.82	25.32	-59.70	-13.00	46.70	196	121	Vertical
2	2482.77	44.93	-49.00	27.28	-72.05	-13.00	59.05	233	334	Vertical
3	3310.36	44.75	-48.64	28.62	-70.52	-13.00	57.52	174	160	Vertical
4	4137.95	44.04	-48.30	29.65	-69.87	-13.00	56.87	152	22	Vertical
5	4965.54	43.34	-48.03	31.42	-68.53	-13.00	55.53	164	134	Vertical
6	5793.13	43.52	-47.71	32.76	-66.69	-13.00	53.69	201	191	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2222	56.99	-49.82	25.32	-62.77	-13.00	49.77	194	301	Horizontal
2	2482.77	44.77	-49.00	27.28	-72.21	-13.00	59.21	286	258	Horizontal
3	3310.36	45.19	-48.64	28.62	-70.08	-13.00	57.08	135	88	Horizontal
4	4137.95	43.81	-48.30	29.65	-70.10	-13.00	57.10	274	244	Horizontal
5	4965.54	43.54	-48.03	31.42	-68.33	-13.00	55.33	140	123	Horizontal
6	5793.13	43.80	-47.71	32.76	-66.41	-13.00	53.41	138	120	Horizontal



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Test Band = NR Band 5_ Ant 1TM1

Test Channel = High Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659.1111	61.61	-49.81	25.34	-58.12	-13.00	45.12	209	191	Vertical
2	2425.7778	49.25	-49.33	27.21	-68.13	-13.00	55.13	193	317	Vertical
3	3320.36	44.30	-48.64	28.63	-70.97	-13.00	57.97	234	285	Vertical
4	4150.45	43.84	-48.31	29.67	-70.06	-13.00	57.06	175	227	Vertical
5	4980.54	43.93	-48.00	31.45	-67.88	-13.00	54.88	168	250	Vertical
6	5810.63	43.58	-47.65	32.76	-66.56	-13.00	53.56	224	30	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659.1111	59.53	-49.81	25.34	-60.20	-13.00	47.20	227	142	Horizontal
2	2490.27	44.77	-48.95	27.29	-72.16	-13.00	59.16	109	357	Horizontal
3	3320.36	44.41	-48.64	28.63	-70.86	-13.00	57.86	293	9	Horizontal
4	4150.45	43.64	-48.31	29.67	-70.26	-13.00	57.26	184	328	Horizontal
5	4980.54	44.15	-48.00	31.45	-67.66	-13.00	54.66	175	133	Horizontal
6	5810.63	43.30	-47.65	32.76	-66.84	-13.00	53.84	166	350	Horizontal



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Test Band = ENDC 7A_n5A_Ant 0TM1

Test Channel = Low Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649	48.97	-25.47	25.30	-46.46	-25.00	21.46	217	244	Vertical
2	2480	49.28	-24.69	27.28	-43.40	-25.00	18.40	289	127	Vertical
3	5002.18	43.16	-48.01	31.51	-68.60	-25.00	43.60	255	78	Vertical
4	7503.27	40.83	-46.11	36.80	-63.75	-25.00	38.75	163	157	Vertical
5	10004.36	38.55	-41.71	38.50	-59.91	-25.00	34.91	247	240	Vertical
6	12505.45	36.06	-39.84	38.90	-60.14	-25.00	35.14	155	270	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649	50.33	-25.47	25.30	-45.10	-25.00	20.10	287	261	Horizontal
2	2402	49.58	-25.09	27.18	-43.59	-25.00	18.59	149	154	Horizontal
3	5002.18	42.97	-48.01	31.51	-68.79	-25.00	43.79	255	346	Horizontal
4	7503.27	40.94	-46.11	36.80	-63.64	-25.00	38.64	163	246	Horizontal
5	10004.36	39.74	-41.71	38.50	-58.72	-25.00	33.72	255	17	Horizontal
6	12505.45	35.66	-39.84	38.90	-60.54	-25.00	35.54	175	360	Horizontal



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Test Band = ENDC 7A_n5A_Ant 0TM1

Test Channel = Mid Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654	50.84	-25.46	25.32	-44.56	-25.00	19.56	195	245	Vertical
2	2481	45.81	-24.69	27.28	-46.86	-25.00	21.86	284	263	Vertical
3	5052.18	43.74	-47.91	31.63	-67.80	-25.00	42.80	156	127	Vertical
4	7578.27	40.50	-44.91	36.71	-62.97	-25.00	37.97	243	120	Vertical
5	10104.36	37.68	-41.88	38.59	-60.87	-25.00	35.87	162	352	Vertical
6	12630.45	36.84	-39.08	38.82	-58.67	-25.00	33.67	108	68	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654	50.45	-25.46	25.32	-44.95	-25.00	19.95	195	261	Horizontal
2	2481	45.26	-24.69	27.28	-47.41	-25.00	22.41	264	261	Horizontal
3	5052.18	43.35	-47.91	31.63	-68.19	-25.00	43.19	155	197	Horizontal
4	7578.27	41.52	-44.91	36.71	-61.95	-25.00	36.95	132	197	Horizontal
5	10104.36	38.44	-41.88	38.59	-60.11	-25.00	35.11	187	232	Horizontal
6	12630.45	36.36	-39.08	38.82	-59.15	-25.00	34.15	165	197	Horizontal



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Test Band = ENDC 7A_n5A_Ant 0TM1

Test Channel = High Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659	50.88	-25.45	25.34	-44.49	-25.00	19.49	187	243	Vertical
2	2488.5	45.00	-24.65	27.29	-47.62	-25.00	22.62	196	262	Vertical
3	5102.18	43.00	-47.82	31.75	-68.34	-25.00	43.34	255	72	Vertical
4	7653.27	41.74	-44.91	36.62	-61.82	-25.00	36.82	123	138	Vertical
5	10204.36	37.93	-42.10	38.68	-60.74	-25.00	35.74	174	281	Vertical
6	12755.45	37.22	-39.29	38.75	-58.58	-25.00	33.58	186	150	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659	50.13	-25.45	25.34	-45.24	-25.00	20.24	169	259	Horizontal
2	2480	45.91	-24.69	27.28	-46.77	-25.00	21.77	235	250	Horizontal
3	5102.18	43.34	-47.82	31.75	-68.00	-25.00	43.00	175	29	Horizontal
4	7653.27	41.93	-44.91	36.62	-61.63	-25.00	36.63	142	150	Horizontal
5	10204.36	38.45	-42.10	38.68	-60.22	-25.00	35.22	162	83	Horizontal
6	12755.45	36.13	-39.29	38.75	-59.67	-25.00	34.67	214	281	Horizontal



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Test Band = ENDC 7A_n5A_Ant 1TM1

Test Channel = Low Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1160	47.00	-50.12	24.72	-73.66	-13.00	60.66	259	248	Vertical
2	1648.8889	57.65	-49.83	25.30	-62.14	-13.00	49.14	186	128	Vertical
3	2480	52.83	-49.02	27.28	-64.17	-13.00	51.17	234	2	Vertical
4	3582.6667	45.92	-48.47	28.82	-69.00	-13.00	56.00	188	0	Vertical
5	5002.18	43.61	-47.96	31.51	-68.10	-13.00	55.10	142	5	Vertical
6	7503.27	41.51	-46.23	36.80	-63.19	-13.00	50.19	168	231	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.3333	57.85	-49.83	25.30	-61.94	-13.00	48.94	289	187	Horizontal
2	2092.8889	45.91	-49.47	26.81	-72.01	-13.00	59.01	177	222	Horizontal
3	2480	52.58	-49.02	27.28	-64.42	-13.00	51.42	164	106	Horizontal
4	3488.4444	46.14	-48.46	28.70	-68.88	-13.00	55.88	253	49	Horizontal
5	5002.18	43.35	-47.96	31.51	-68.36	-13.00	55.36	255	308	Horizontal
6	7503.27	41.33	-46.23	36.80	-63.37	-13.00	50.37	142	187	Horizontal



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Test Band = ENDC 7A_n5A_Ant 1TM1

Test Channel = Mid Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2222	60.53	-49.82	25.32	-59.23	-13.00	46.23	217	205	Vertical
2	2401.7778	49.40	-49.47	27.18	-68.15	-13.00	55.15	184	308	Vertical
3	3513.7778	45.59	-48.44	28.72	-69.39	-13.00	56.39	235	84	Vertical
4	8997.7778	40.65	-42.95	37.60	-59.96	-13.00	46.96	142	250	Vertical
5	5052.18	44.13	-47.94	31.63	-67.44	-13.00	54.44	177	317	Vertical
6	7578.27	40.60	-45.02	36.71	-62.97	-13.00	49.97	400	245	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2222	59.43	-49.82	25.32	-60.33	-13.00	47.33	129	195	Horizontal
2	2550.6667	45.78	-49.04	27.42	-71.10	-13.00	58.10	294	124	Horizontal
3	3000.8889	45.48	-48.30	28.50	-69.58	-13.00	56.58	185	293	Horizontal
4	4059.5556	45.21	-48.30	29.51	-68.84	-13.00	55.84	166	44	Horizontal
5	5052.18	44.23	-47.94	31.63	-67.34	-13.00	54.34	231	129	Horizontal
6	7578.27	40.87	-45.02	36.71	-62.70	-13.00	49.70	120	13	Horizontal



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Test Band = ENDC 7A_n5A_Ant 1TM1

Test Channel = High Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659.1111	63.31	-49.81	25.34	-56.42	-13.00	43.42	259	202	Vertical
2	2480	57.90	-49.02	27.28	-59.10	-13.00	46.10	187	94	Vertical
3	4064.8889	45.19	-48.29	29.52	-68.84	-13.00	55.84	144	263	Vertical
4	7012	44.32	-46.60	35.63	-61.92	-13.00	48.92	163	321	Vertical
5	5102.18	43.21	-47.92	31.75	-68.23	-13.00	55.23	235	0	Vertical
6	7653.27	41.65	-45.00	36.62	-61.99	-13.00	48.99	142	317	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659.1111	60.44	-49.81	25.34	-59.29	-13.00	46.29	259	204	Horizontal
2	2107.1111	46.20	-49.46	26.83	-71.69	-13.00	58.69	188	44	Horizontal
3	2428.4444	53.86	-49.32	27.21	-63.50	-13.00	50.50	309	354	Horizontal
4	3267.5556	46.02	-48.63	28.61	-69.26	-13.00	56.26	235	65	Horizontal
5	5102.18	43.67	-47.92	31.75	-67.77	-13.00	54.77	142	318	Horizontal
6	7653.27	41.22	-45.00	36.62	-62.42	-13.00	49.42	152	194	Horizontal

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) - Pre-amplifier (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)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-9.70	-0.01	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-8.60	-0.01	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-10.20	-0.01	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	-6.60	-0.01	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	3.70	0.00	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	-4.30	-0.01	±2.5	PASS



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Frequency Error VS. Temperature

Temperature											
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-10.000000	-0.011955	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-17.400000	-0.020801	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.500000	-0.007770	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-7.400000	-0.008846	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-10.400000	-0.012433	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-8.100000	-0.009683	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-8.500000	-0.010161	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-10.200000	-0.012194	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-8.400000	-0.010042	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-5.200000	-0.006216	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	-3.600000	-0.004304	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	-6.000000	-0.007173	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	-1.700000	-0.002032	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	-4.500000	-0.005380	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	-16.000000	-0.019127	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-19.400000	-0.023192	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	-4.900000	-0.005858	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	-4.700000	-0.005619	±2.5	PASS

---End of Attachment---



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