

Appendix B.17

NR Band n2



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT31

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N2	15	5	DFT-QPSK	L	Inner_1RB_Left	23.14	20.14	33.00	PASS
N2	15	5	DFT-16QAM	L	Inner_1RB_Left	22.02	19.02	33.00	PASS
N2	15	5	DFT-QPSK	M	Inner_1RB_Left	23.30	20.30	33.00	PASS
N2	15	5	DFT-16QAM	M	Inner_1RB_Left	22.72	19.72	33.00	PASS
N2	15	5	DFT-QPSK	H	Inner_1RB_Left	23.13	20.13	33.00	PASS
N2	15	5	DFT-16QAM	H	Inner_1RB_Left	22.54	19.54	33.00	PASS
N2	15	10	DFT-QPSK	L	Inner_1RB_Left	23.18	20.18	33.00	PASS
N2	15	10	DFT-16QAM	L	Inner_1RB_Left	22.26	19.26	33.00	PASS
N2	15	10	DFT-QPSK	M	Inner_1RB_Left	23.29	20.29	33.00	PASS
N2	15	10	DFT-16QAM	M	Inner_1RB_Left	22.71	19.71	33.00	PASS
N2	15	10	DFT-QPSK	H	Inner_1RB_Left	23.21	20.21	33.00	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Left	22.50	19.50	33.00	PASS
N2	15	15	DFT-QPSK	L	Inner_1RB_Left	23.05	20.05	33.00	PASS
N2	15	15	DFT-16QAM	L	Inner_1RB_Left	21.91	18.91	33.00	PASS
N2	15	15	DFT-QPSK	M	Inner_1RB_Left	23.20	20.20	33.00	PASS
N2	15	15	DFT-16QAM	M	Inner_1RB_Left	22.63	19.63	33.00	PASS
N2	15	15	DFT-QPSK	H	Inner_1RB_Left	23.15	20.15	33.00	PASS
N2	15	15	DFT-16QAM	H	Inner_1RB_Left	22.31	19.31	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.19	20.19	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.20	20.20	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Outer_Full	22.77	19.77	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Left	23.11	20.11	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Right	23.09	20.09	33.00	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	22.64	19.64	33.00	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Left	21.96	18.96	33.00	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Right	22.73	19.73	33.00	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	21.61	18.61	33.00	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Left	20.59	17.59	33.00	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Right	21.20	18.20	33.00	PASS
N2	15	20	DFT-64QAM	L	Outer_Full	21.17	18.17	33.00	PASS
N2	15	20	DFT-256QAM	L	Inner_1RB_Left	18.50	15.50	33.00	PASS



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N2	15	20	DFT-256QAM	L	Inner_1RB_Right	18.63	15.63	33.00	PASS
N2	15	20	DFT-256QAM	L	Outer_Full	19.25	16.25	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.16	20.16	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	23.07	20.07	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	22.66	19.66	33.00	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Left	23.06	20.06	33.00	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Right	22.98	19.98	33.00	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	22.44	19.44	33.00	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Left	22.65	19.65	33.00	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Right	22.59	19.59	33.00	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	21.66	18.66	33.00	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Left	21.21	18.21	33.00	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Right	21.12	18.12	33.00	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	21.01	18.01	33.00	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Left	18.58	15.58	33.00	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Right	18.46	15.46	33.00	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	19.12	16.12	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.06	20.06	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	22.98	19.98	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Outer_Full	22.54	19.54	33.00	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Left	22.91	19.91	33.00	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Right	22.85	19.85	33.00	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	22.34	19.34	33.00	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Left	22.48	19.48	33.00	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Right	21.88	18.88	33.00	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	21.58	18.58	33.00	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Left	21.01	18.01	33.00	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Right	20.58	17.58	33.00	PASS
N2	15	20	DFT-64QAM	H	Outer_Full	20.96	17.96	33.00	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Left	18.44	15.44	33.00	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Right	18.36	15.36	33.00	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	19.06	16.06	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	8.36	≤13	PASS
N2	15	20	CP-256QAM	L	Outer_Full	9.72	≤13	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	8.78	≤13	PASS
N2	15	20	CP-256QAM	M	Outer_Full	9.24	≤13	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	8.66	≤13	PASS
N2	15	20	CP-256QAM	H	Outer_Full	9.56	≤13	PASS



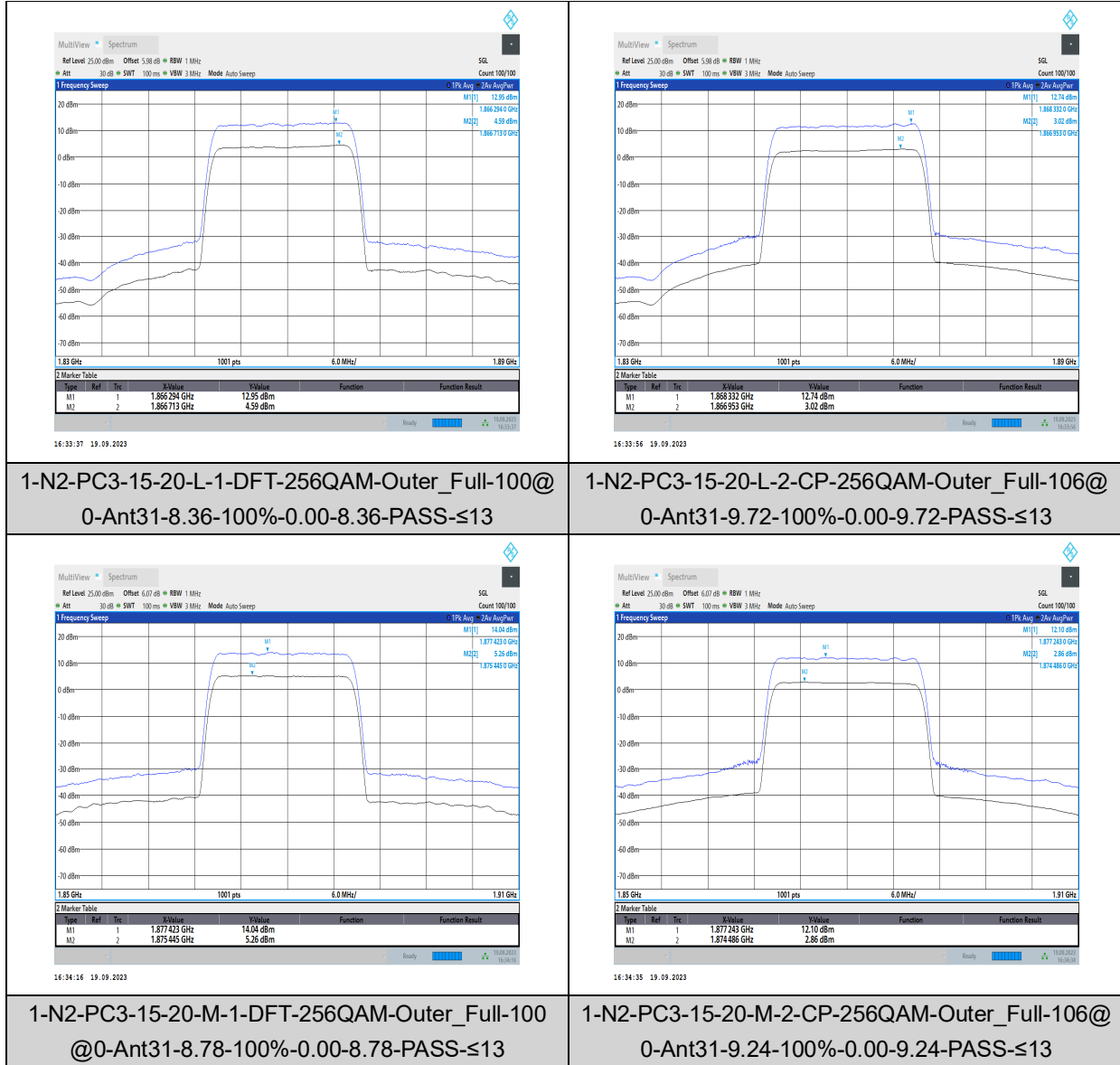
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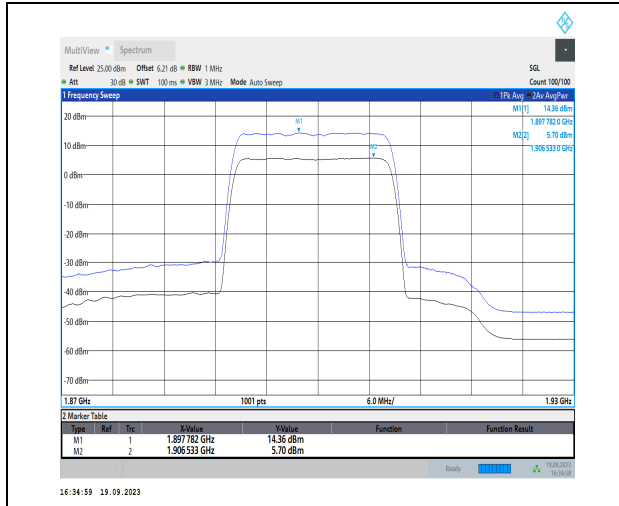
Test Graphs



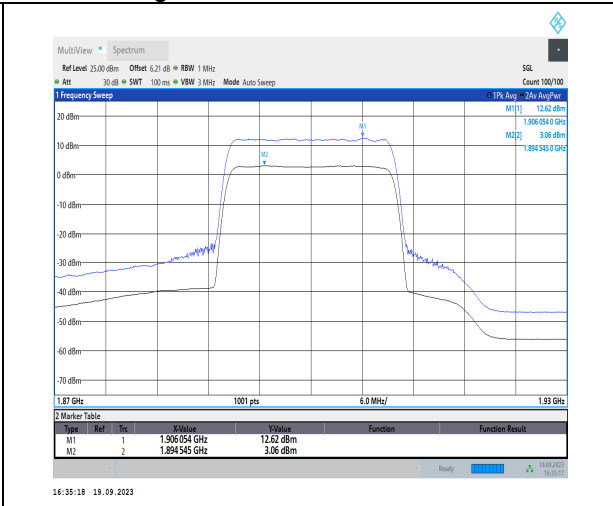
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1-N2-PC3-15-20-H-1-DFT-256QAM-Outer_Full-100
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1-N2-PC3-15-20-H-2-CP-256QAM-Outer_Full-106@
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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N2	15	5	DFT-QPSK	M	Outer_Full	4.462	4.820	PASS
N2	15	5	DFT-PI2BPSK	M	Outer_Full	4.449	4.860	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	4.46	4.850	PASS
N2	15	5	DFT-64QAM	M	Outer_Full	4.472	4.850	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	4.487	4.890	PASS
N2	15	5	CP-QPSK	M	Outer_Full	4.476	4.920	PASS
N2	15	5	CP-16QAM	M	Outer_Full	4.492	4.950	PASS
N2	15	5	CP-64QAM	M	Outer_Full	4.477	5.040	PASS
N2	15	5	CP-256QAM	M	Outer_Full	4.471	4.870	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	8.936	9.580	PASS
N2	15	10	DFT-PI2BPSK	M	Outer_Full	8.917	9.520	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	8.937	9.560	PASS
N2	15	10	DFT-64QAM	M	Outer_Full	8.944	9.540	PASS
N2	15	10	DFT-256QAM	M	Outer_Full	8.929	9.500	PASS
N2	15	10	CP-QPSK	M	Outer_Full	9.302	9.980	PASS
N2	15	10	CP-16QAM	M	Outer_Full	9.278	9.800	PASS
N2	15	10	CP-64QAM	M	Outer_Full	9.281	9.800	PASS
N2	15	10	CP-256QAM	M	Outer_Full	9.304	9.960	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	13.432	14.160	PASS
N2	15	15	DFT-PI2BPSK	M	Outer_Full	13.448	14.160	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	13.456	14.160	PASS
N2	15	15	DFT-64QAM	M	Outer_Full	13.431	14.220	PASS
N2	15	15	DFT-256QAM	M	Outer_Full	13.436	14.190	PASS
N2	15	15	CP-QPSK	M	Outer_Full	14.073	14.880	PASS
N2	15	15	CP-16QAM	M	Outer_Full	14.108	14.910	PASS
N2	15	15	CP-64QAM	M	Outer_Full	14.155	14.850	PASS
N2	15	15	CP-256QAM	M	Outer_Full	14.108	14.940	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	17.877	18.640	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	17.865	18.680	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	17.872	18.680	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	17.874	18.640	PASS



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Report No.: SEWM2309000347RG02

Rev.: 01

Page: 8 of 35

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N2	15	20	CP-QPSK	M	Outer_Full	18.909	19.840	PASS
N2	15	20	CP-16QAM	M	Outer_Full	18.961	19.800	PASS
N2	15	20	CP-64QAM	M	Outer_Full	18.938	19.880	PASS
N2	15	20	CP-256QAM	M	Outer_Full	18.966	19.800	PASS

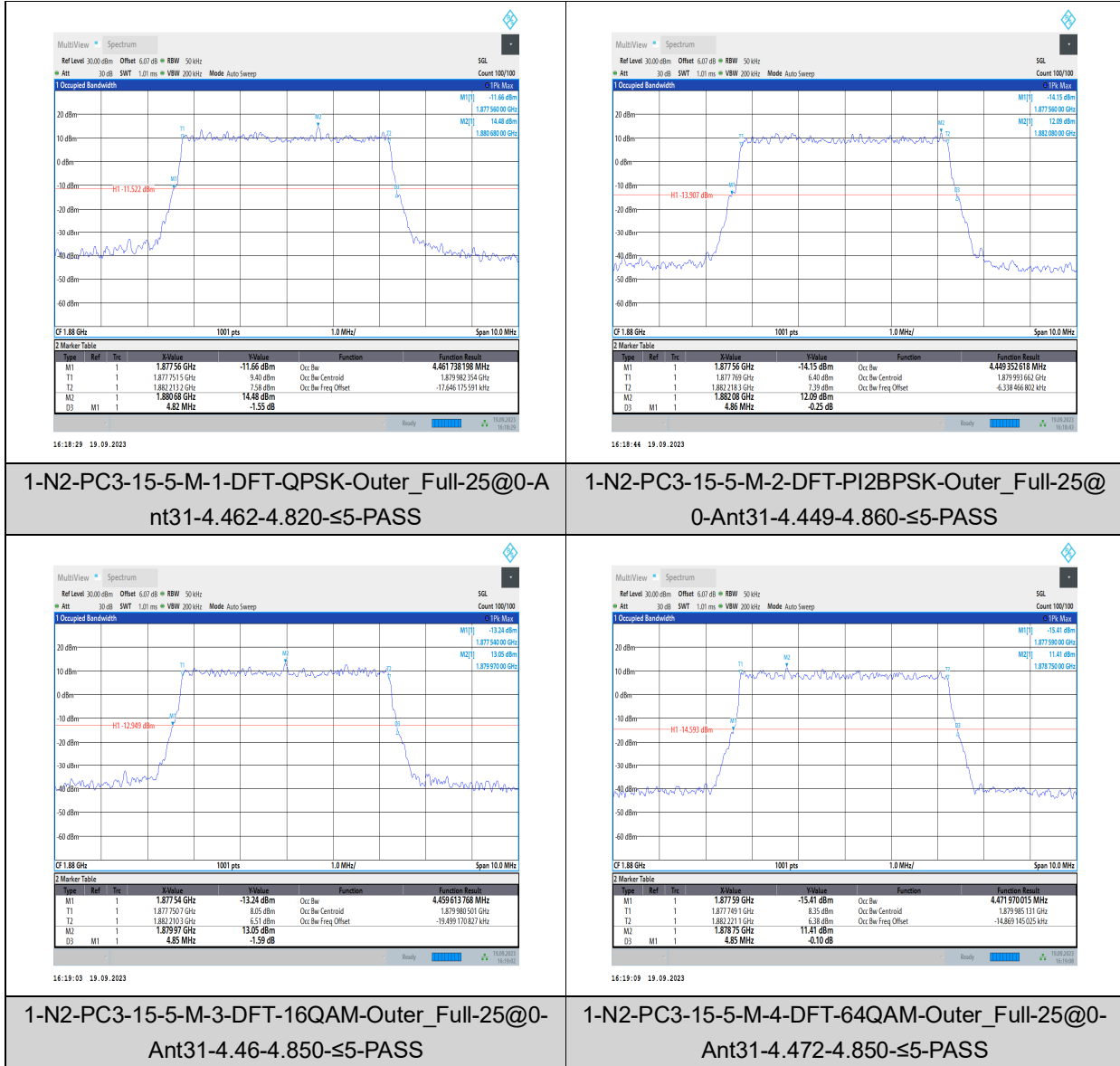


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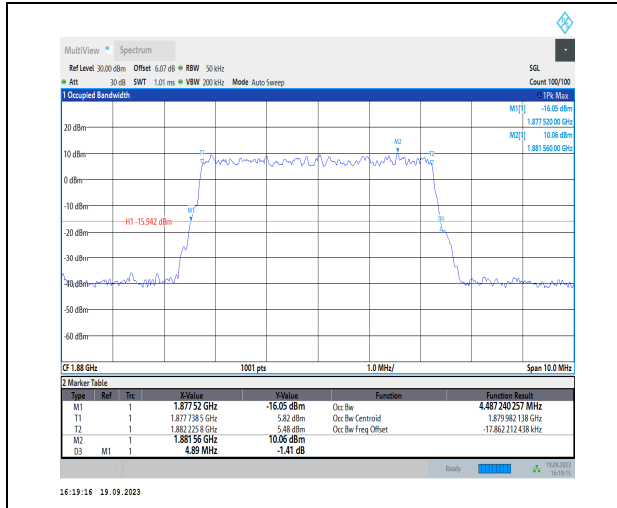
Test Graphs



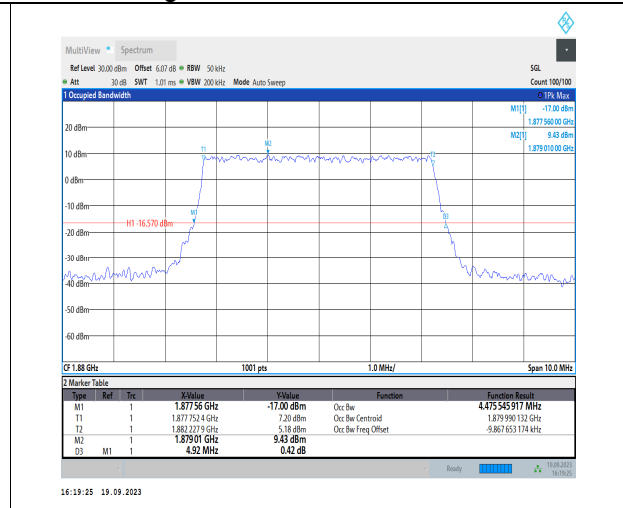
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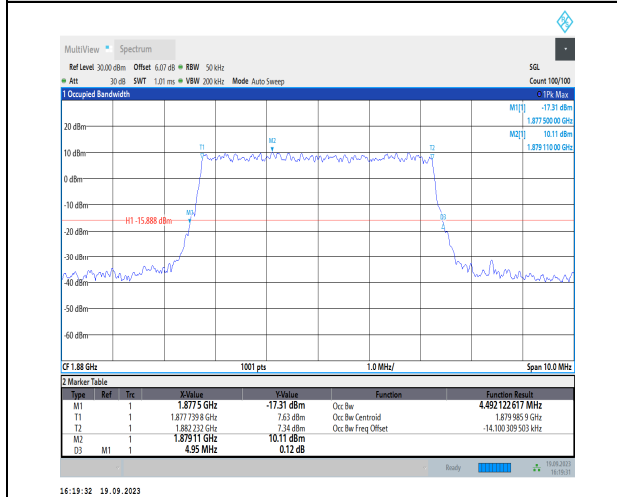
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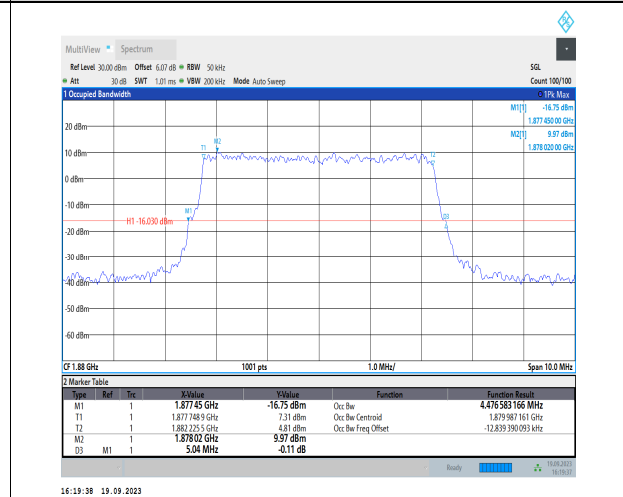
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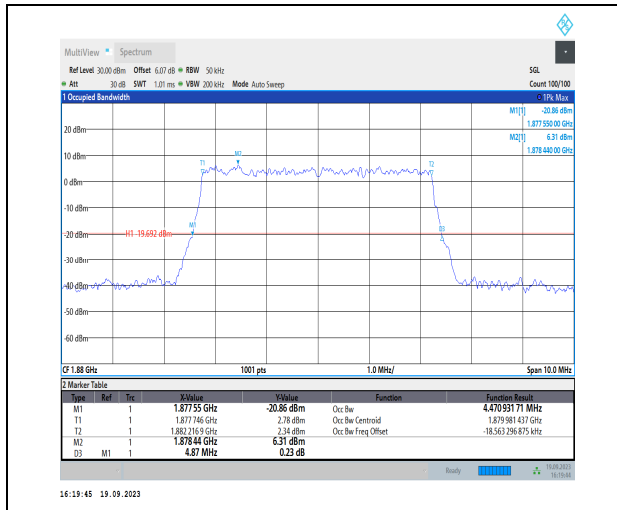
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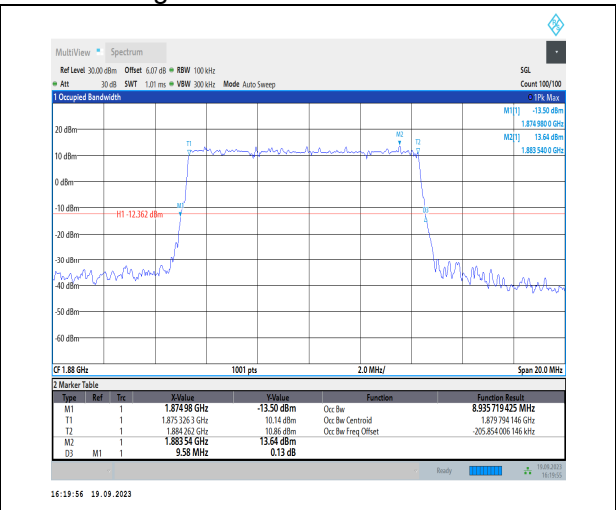
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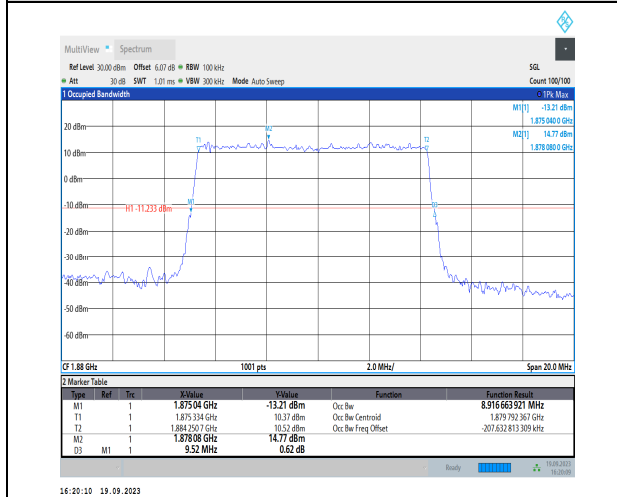
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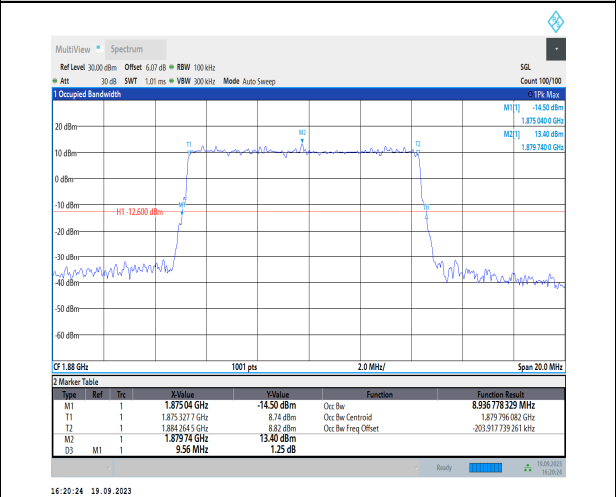
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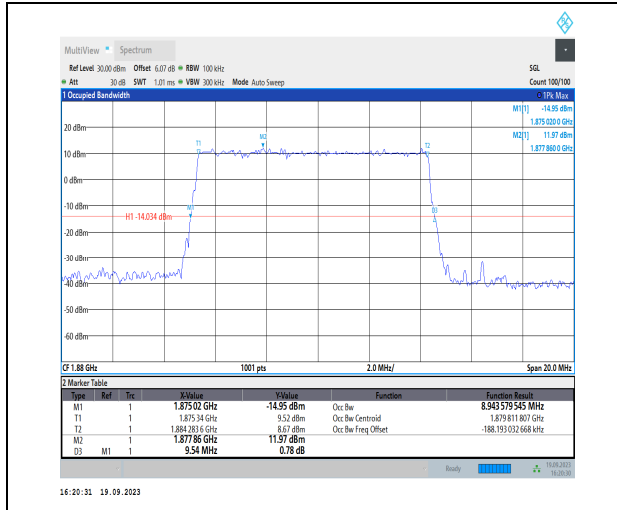
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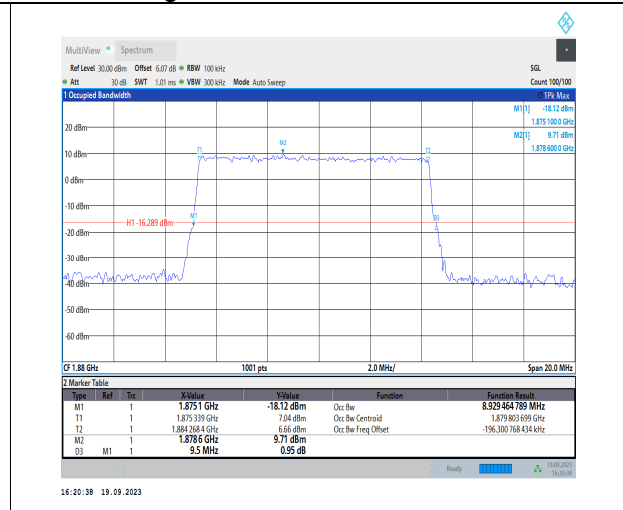
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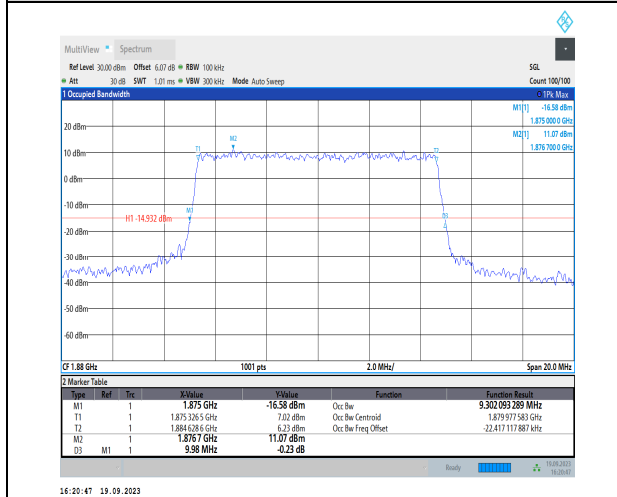
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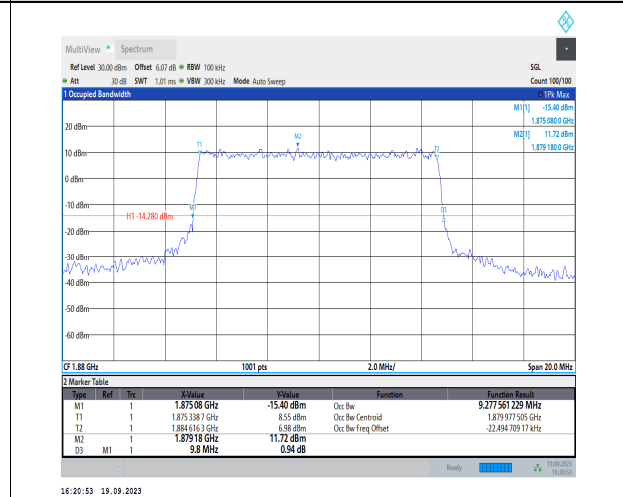
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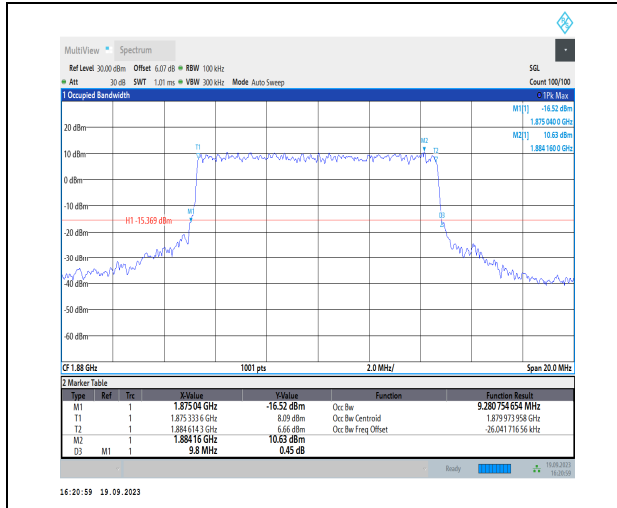
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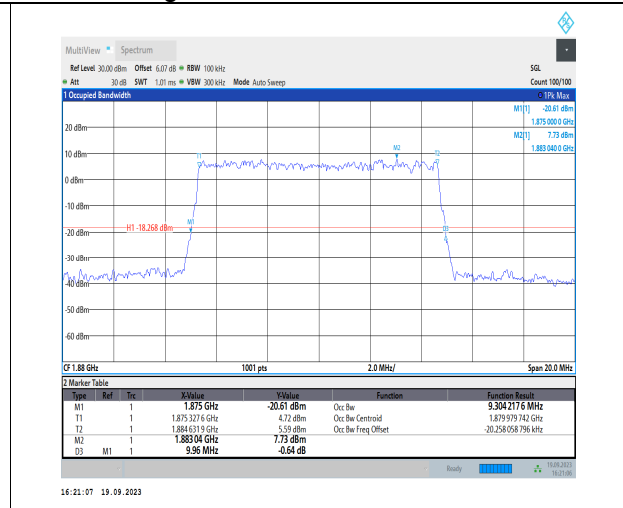
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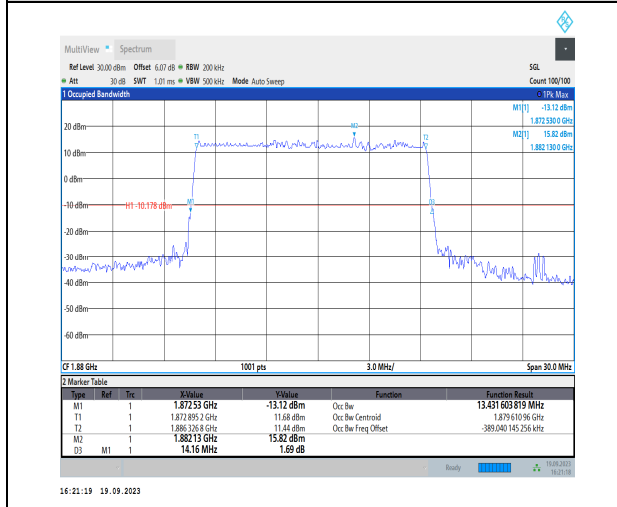
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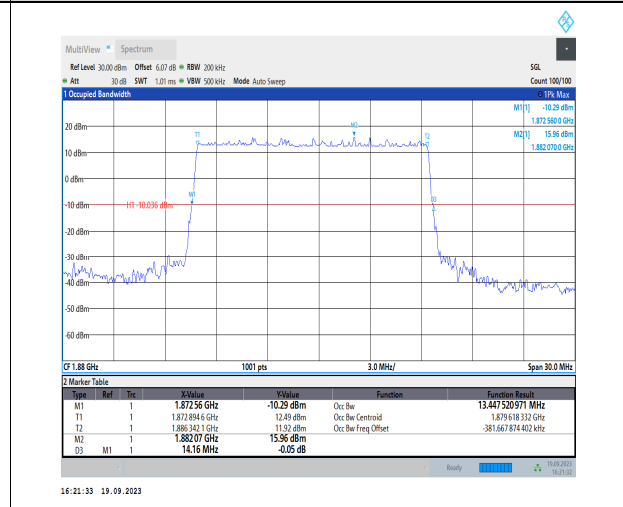
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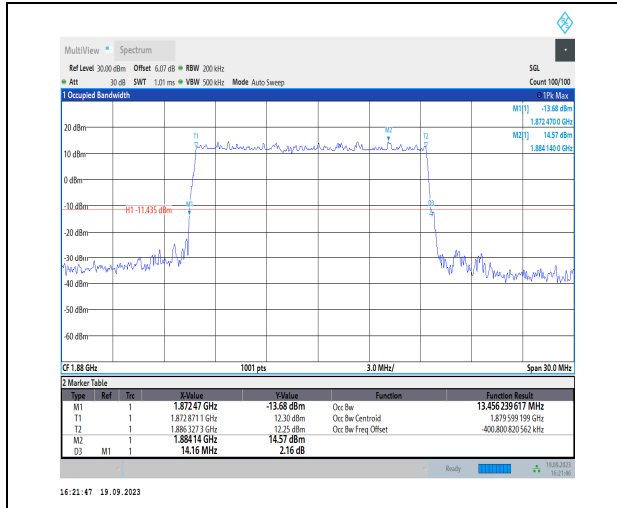
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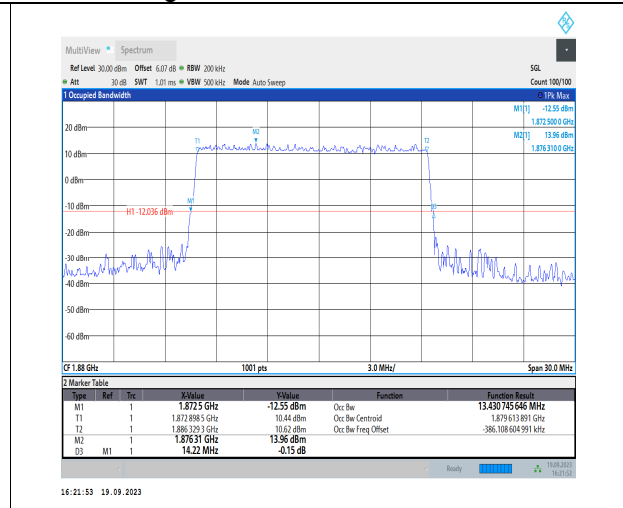
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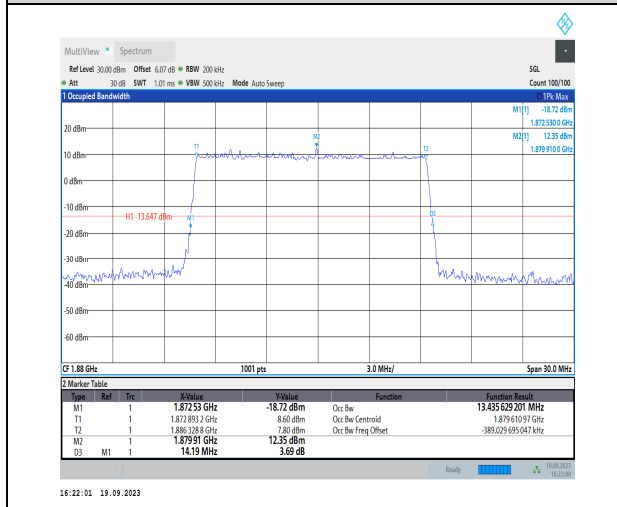
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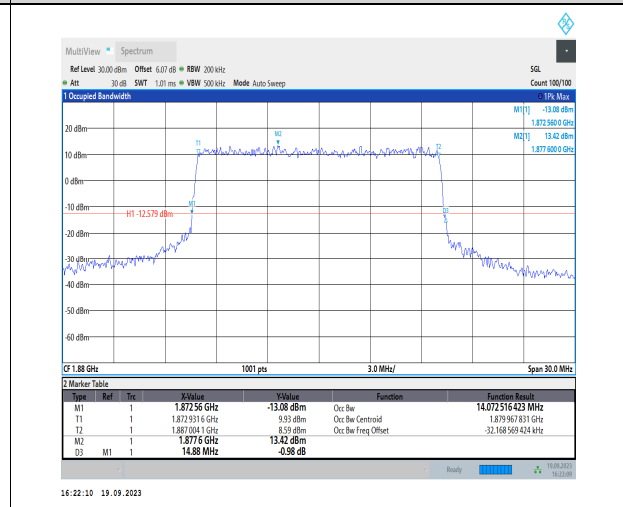
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-Ant31-13.431-14.220-≤15-PASS



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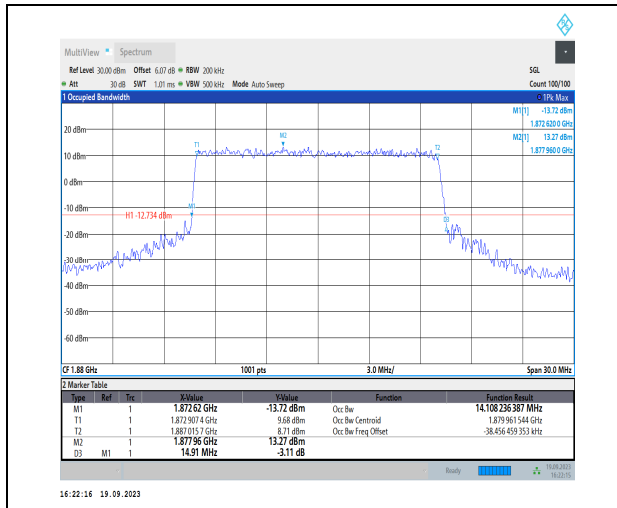
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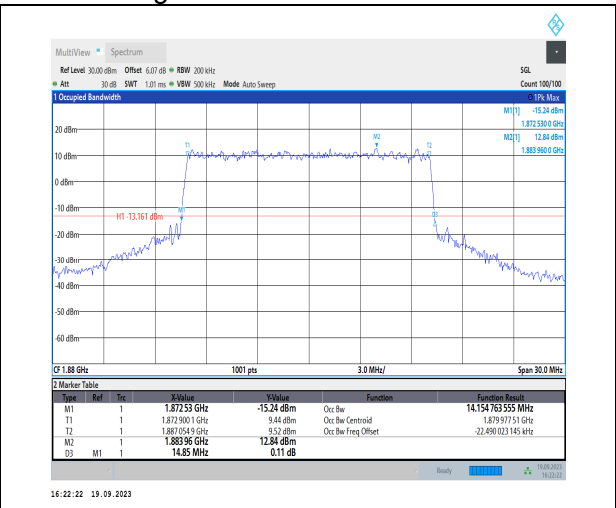
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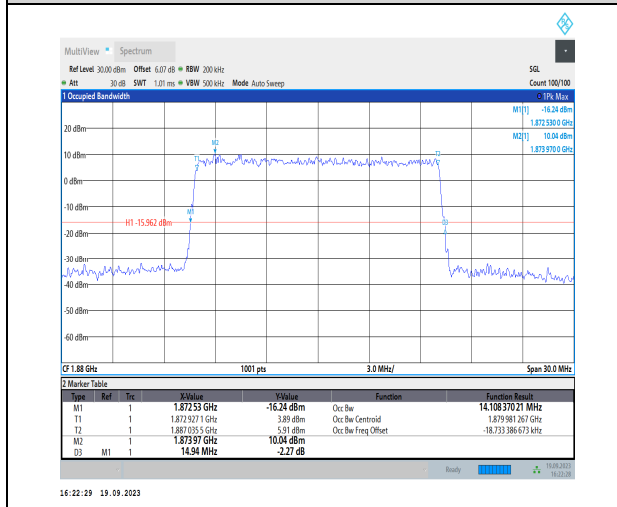
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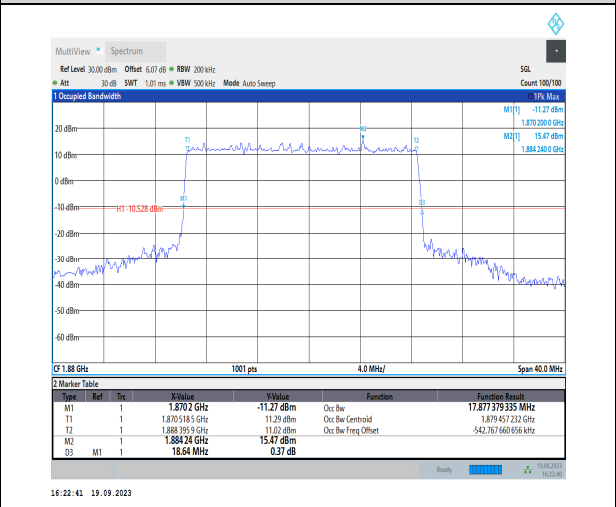
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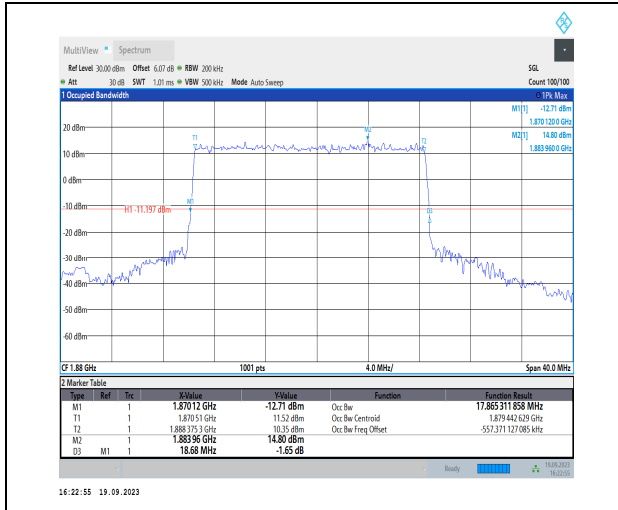
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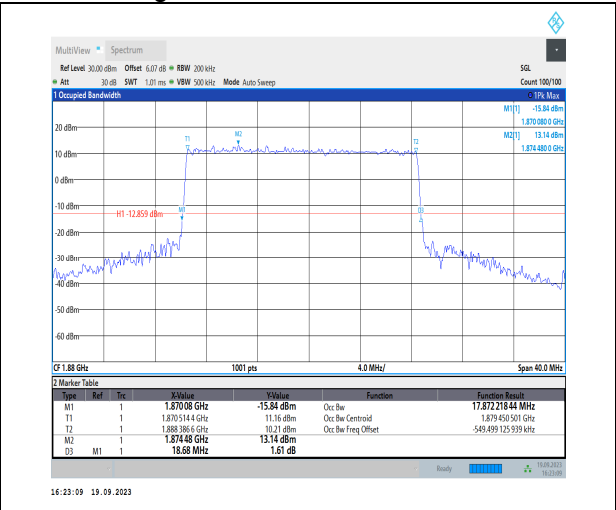
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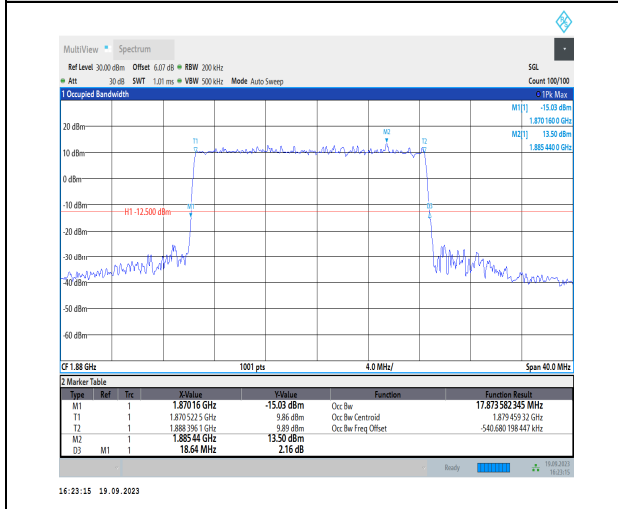
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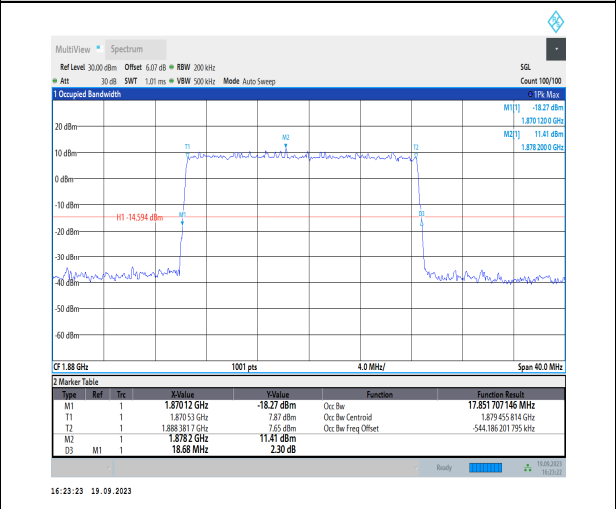
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0-Ant31-17.872-18.680-≤20-PASS



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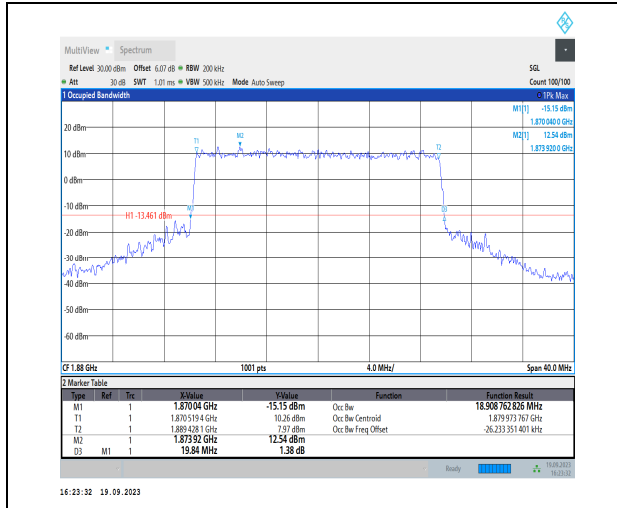
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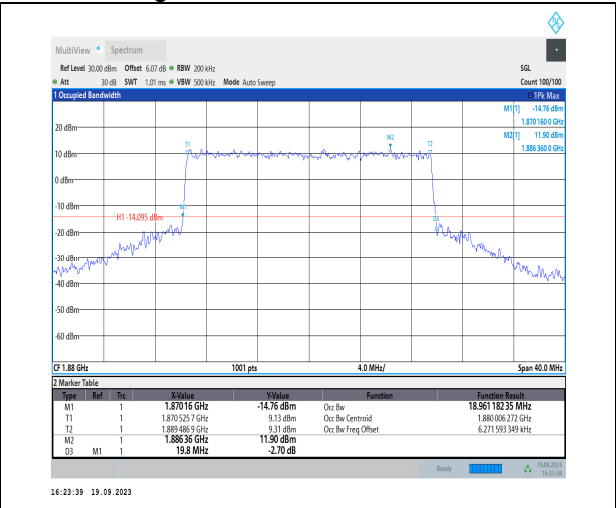
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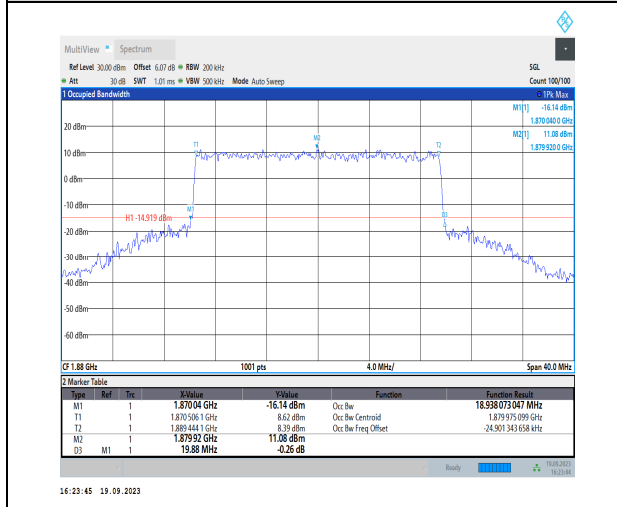
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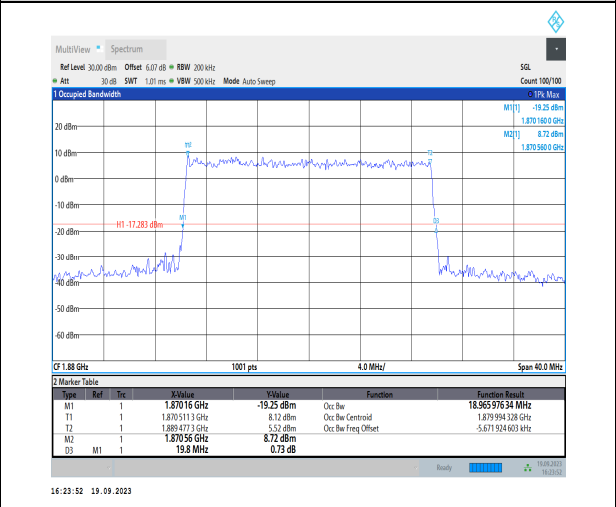
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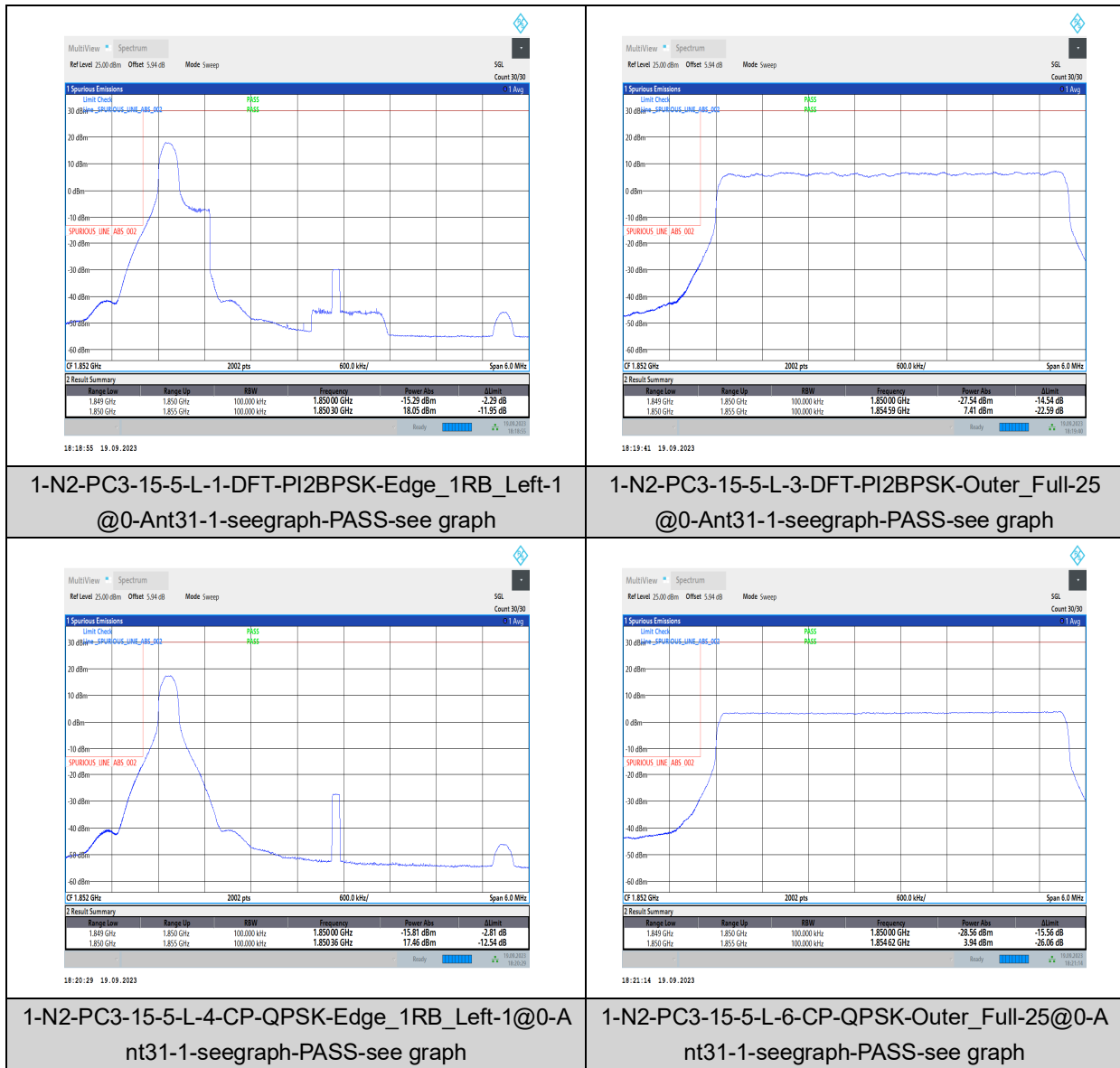
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Band Edge for SA

Test Graphs



1-N2-PC3-15-5-L-1-DFT-PI2BPSK-Edge_1RB_Left-1 @0-Ant31-1-seegraph-PASS-see graph

1-N2-PC3-15-5-L-3-DFT-PI2BPSK-Outer_Full-25 @0-Ant31-1-seegraph-PASS-see graph

1-N2-PC3-15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-A nt31-1-seegraph-PASS-see graph

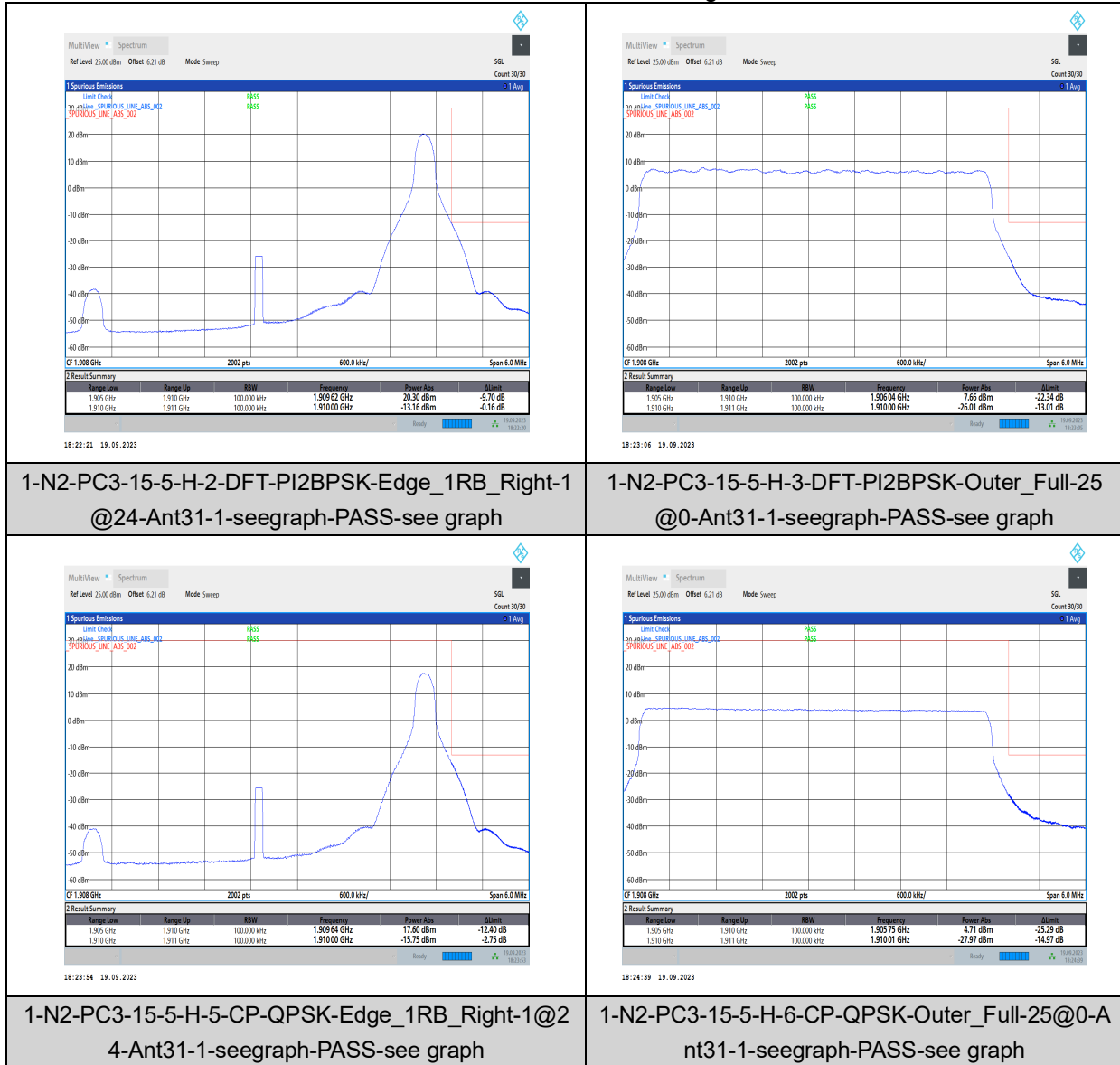
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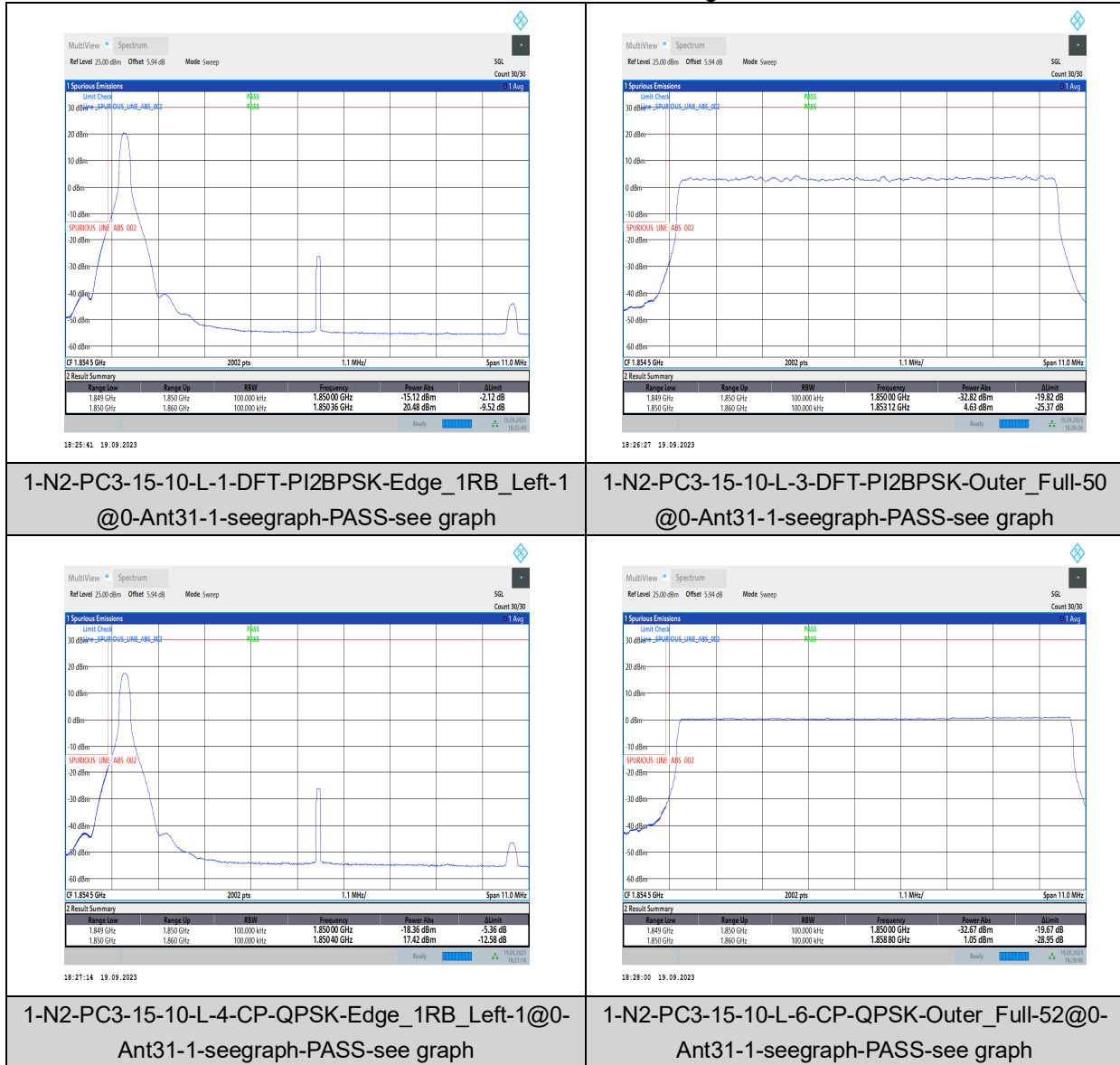
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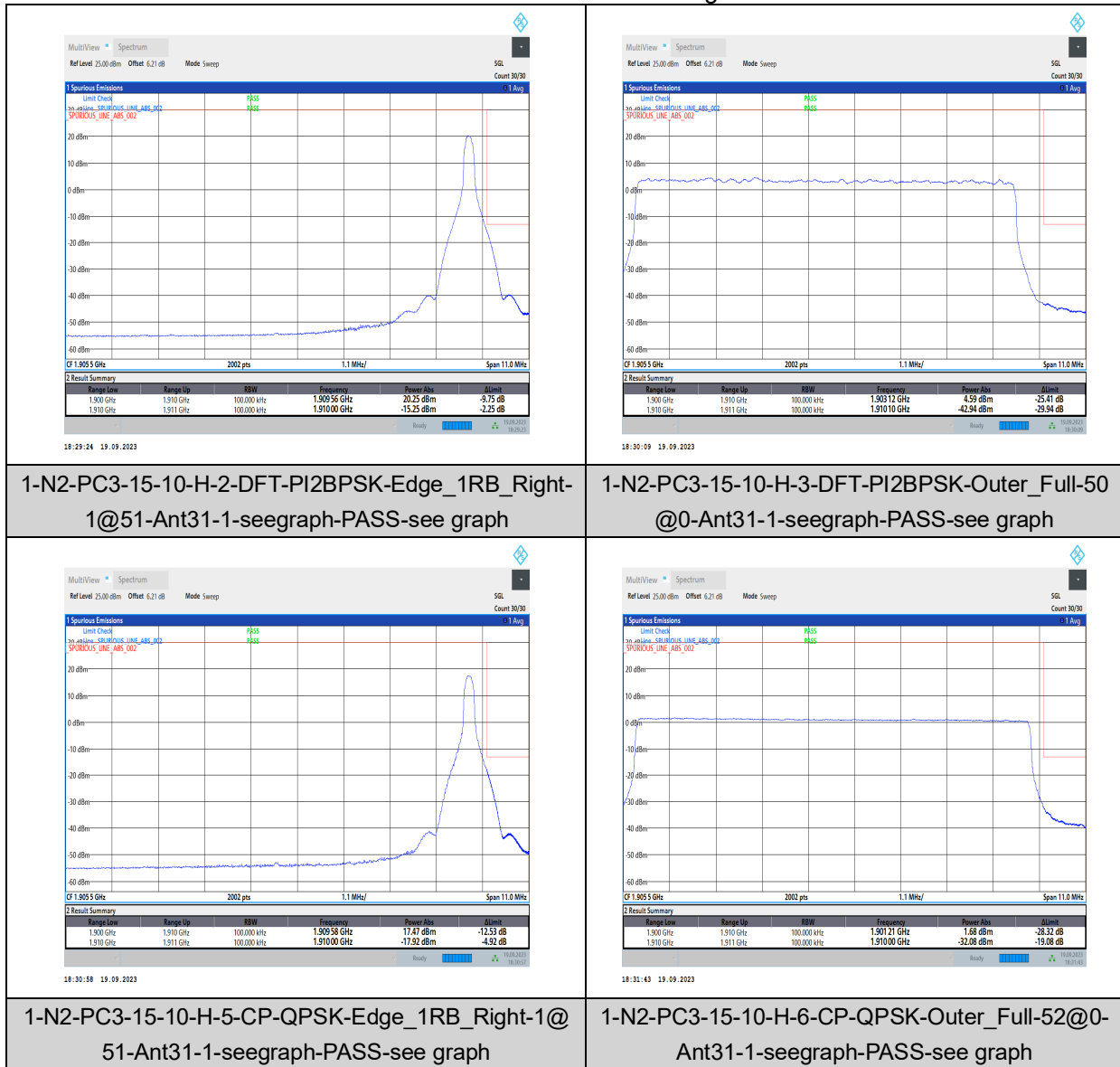
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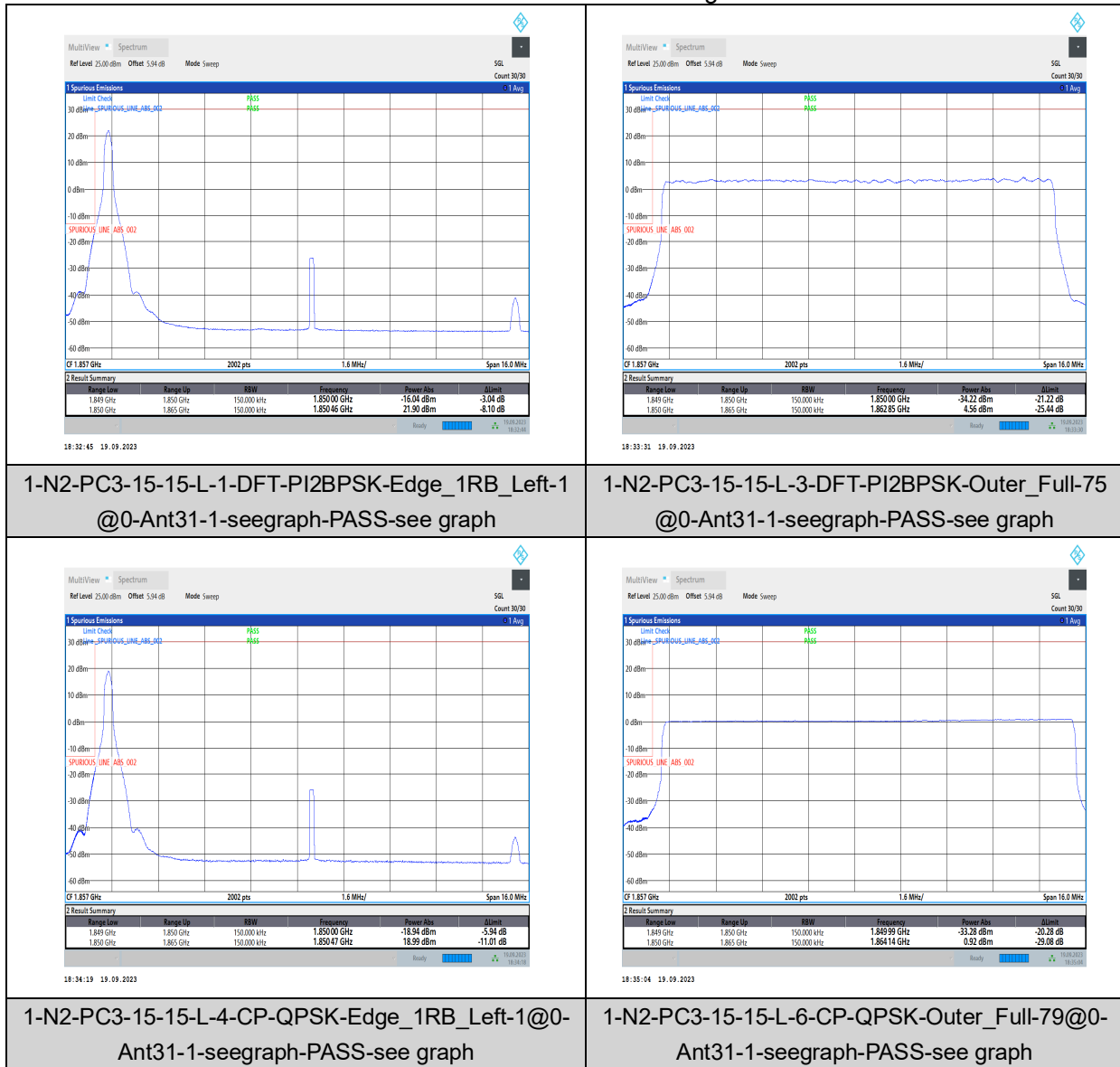
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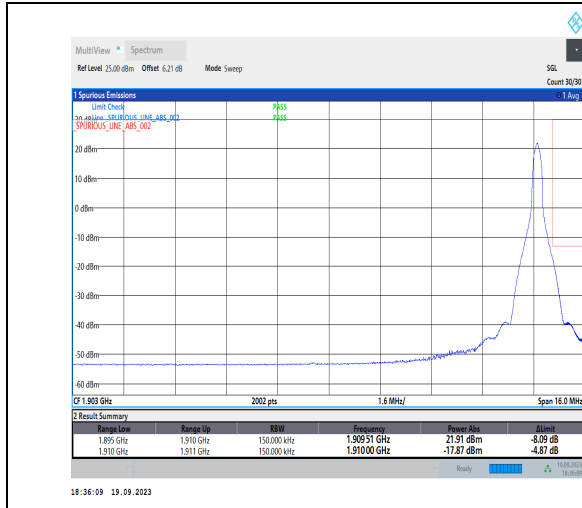
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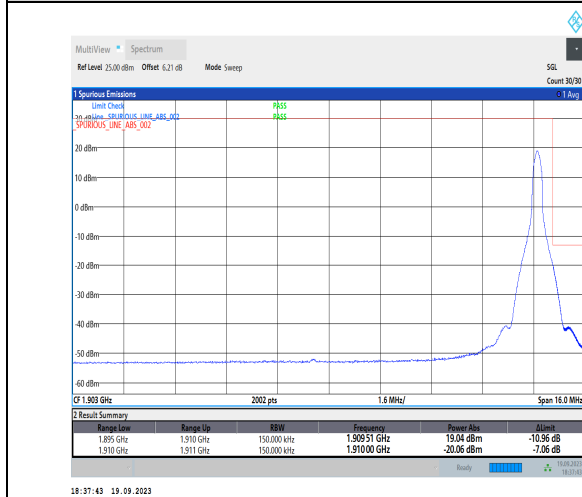
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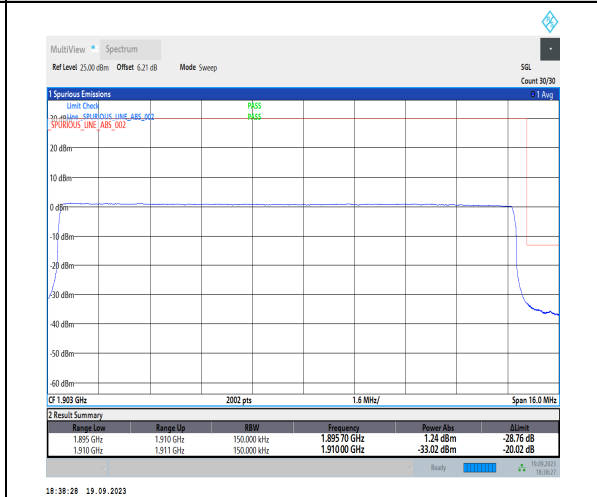
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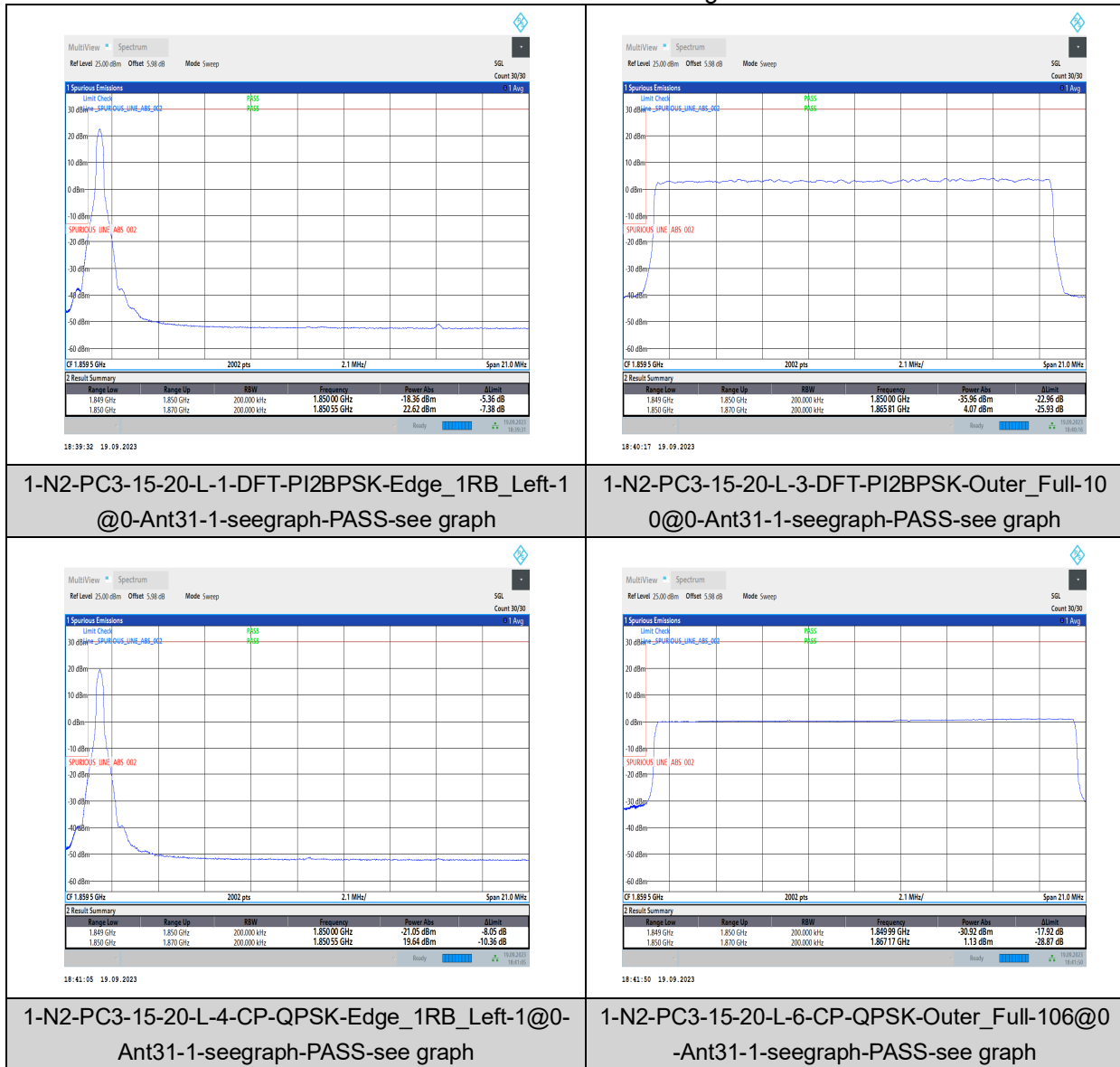
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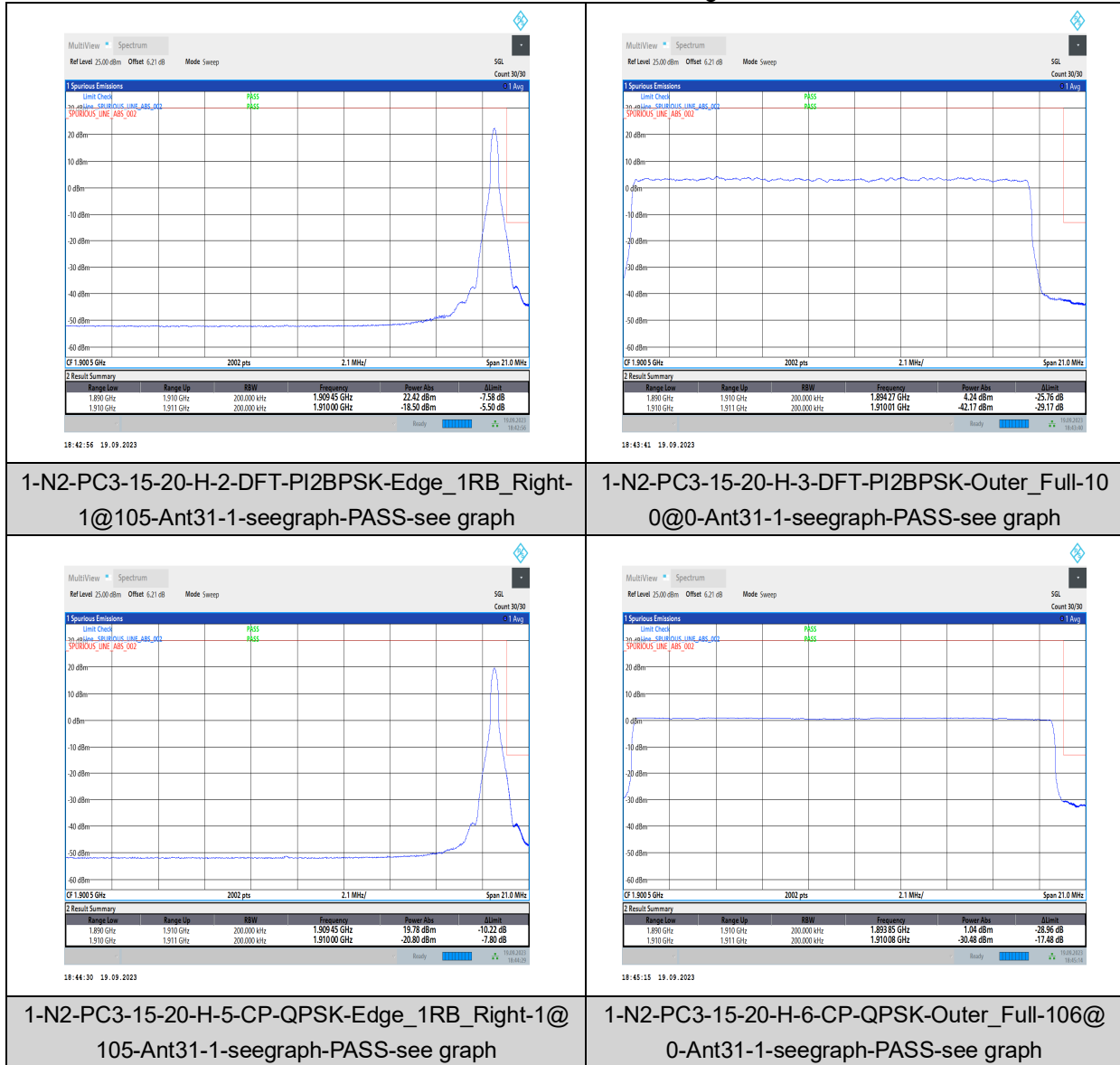
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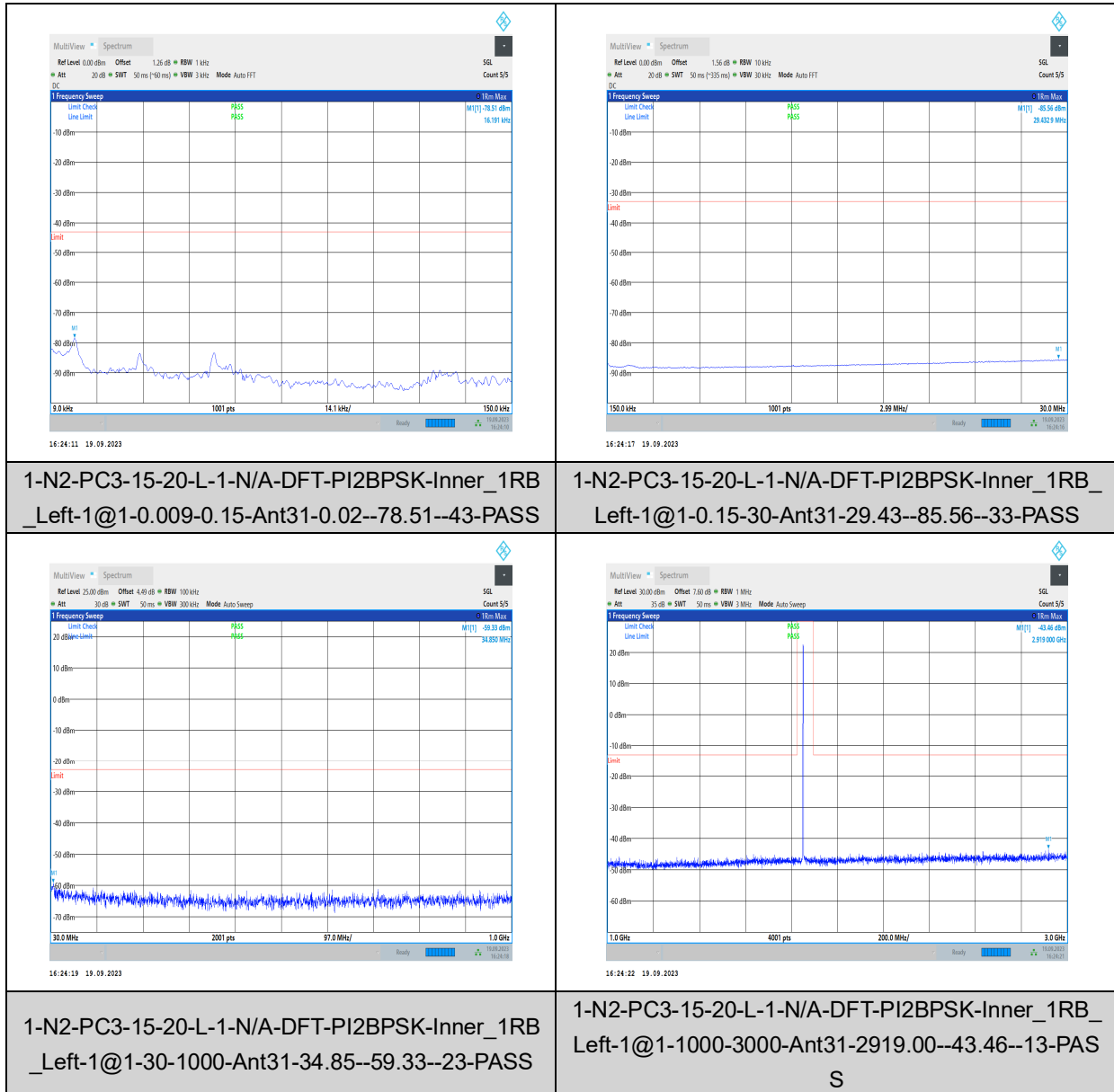
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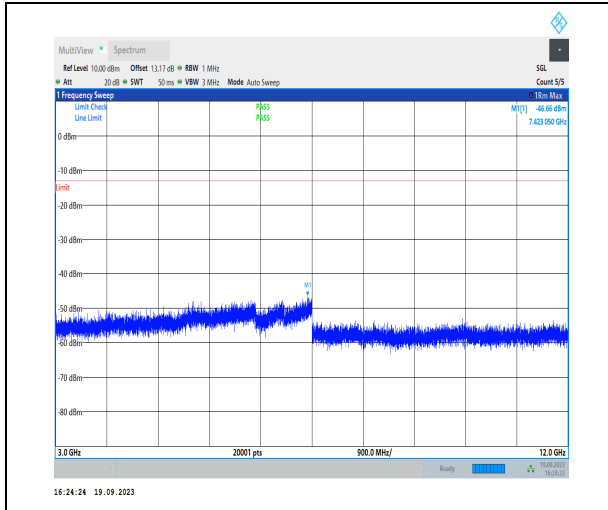
Test Graphs



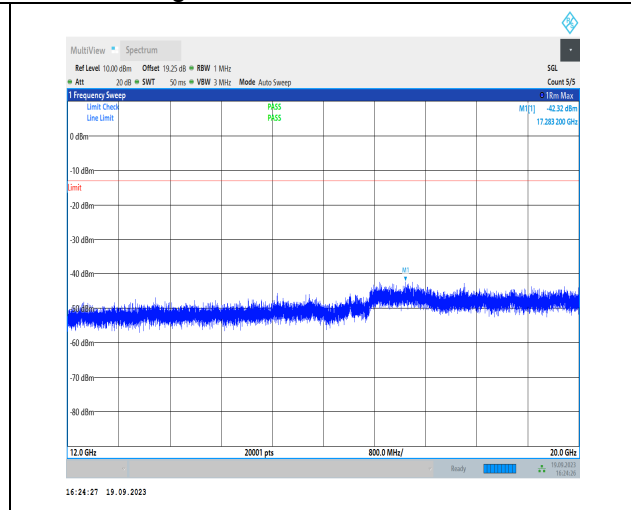
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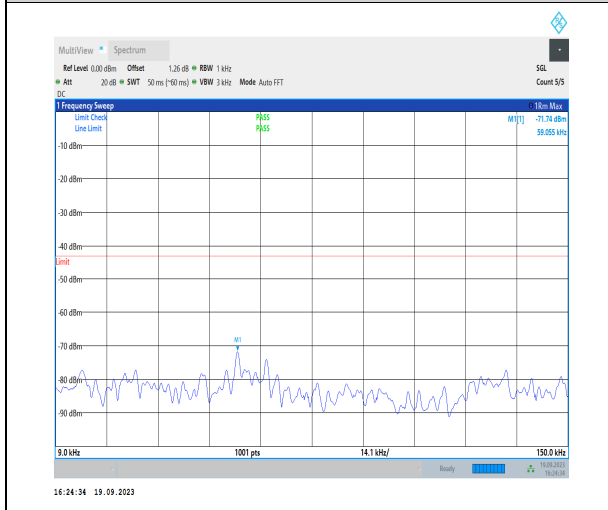
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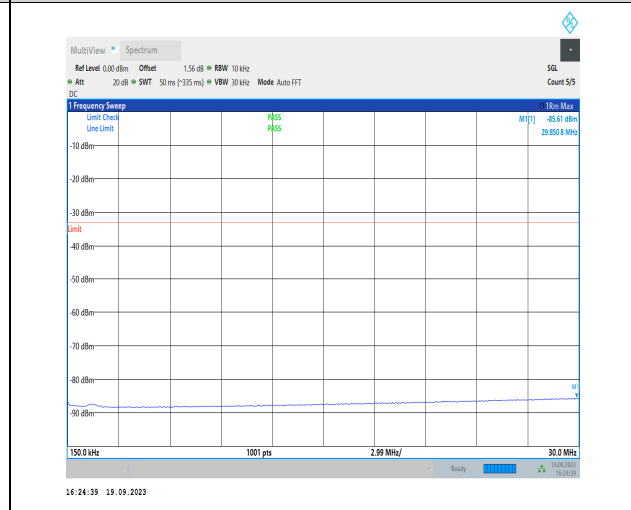
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ASS



1-N2-PC3-15-20-L-1-N/A-DFT-PI2BPSK-Inner_1RB_
Left-1@1-12000-20000-Ant31-17283.20--42.32--13-P
ASS



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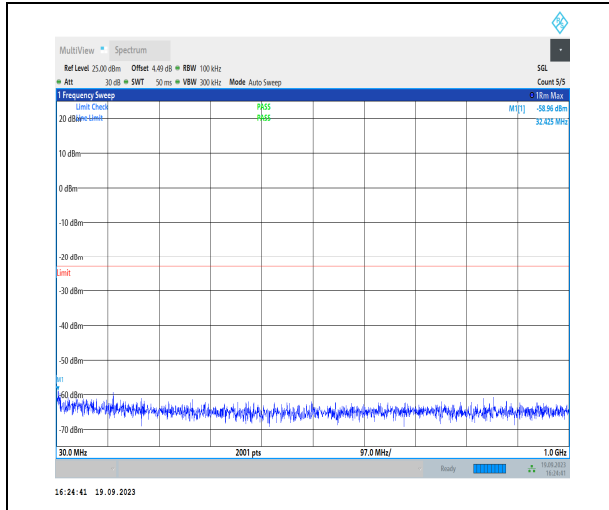
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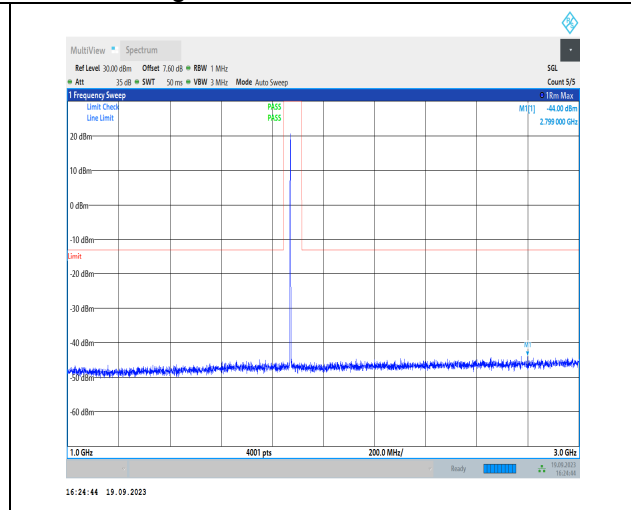
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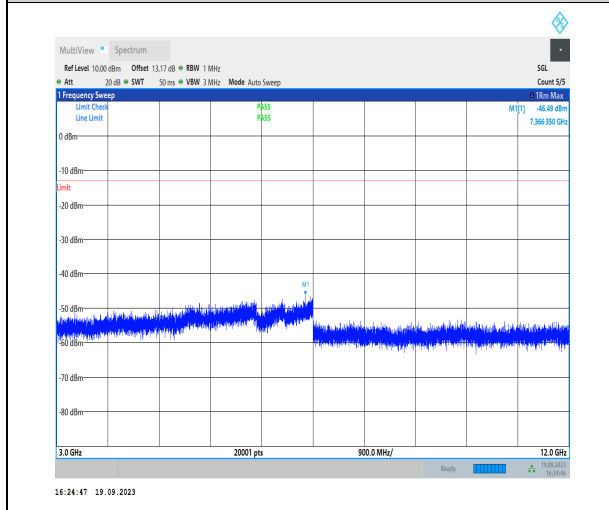
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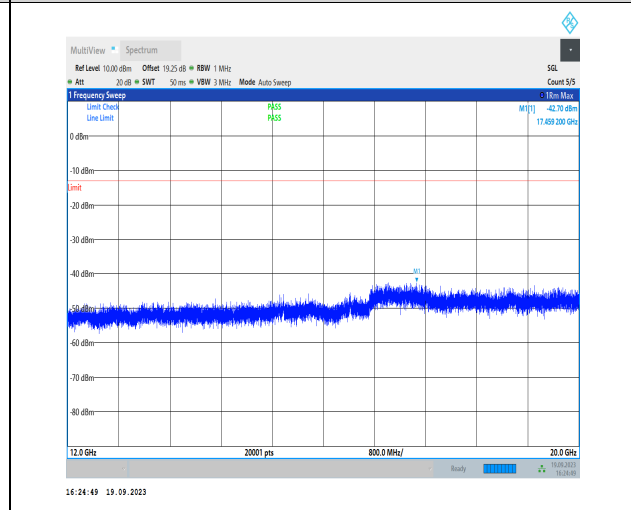
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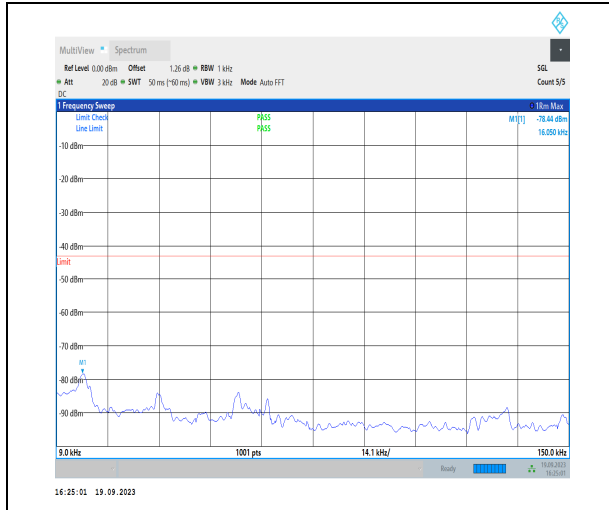
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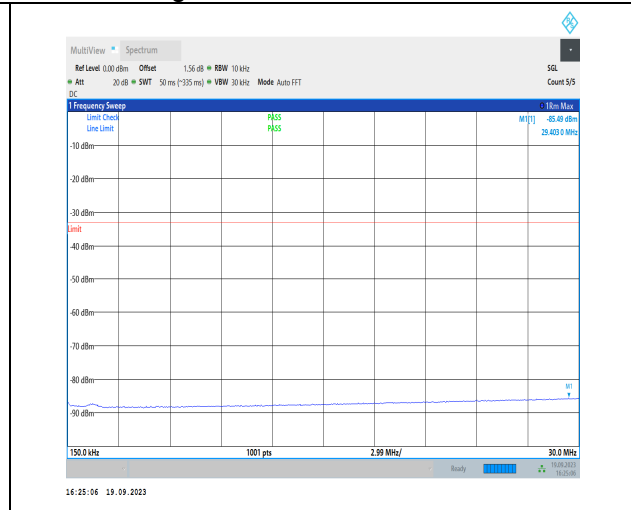
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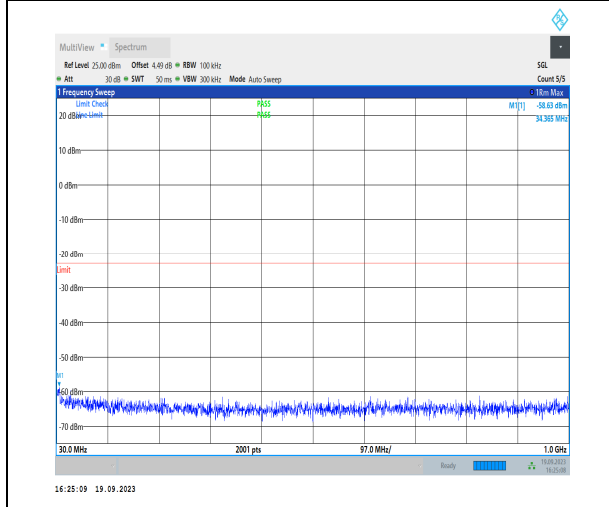
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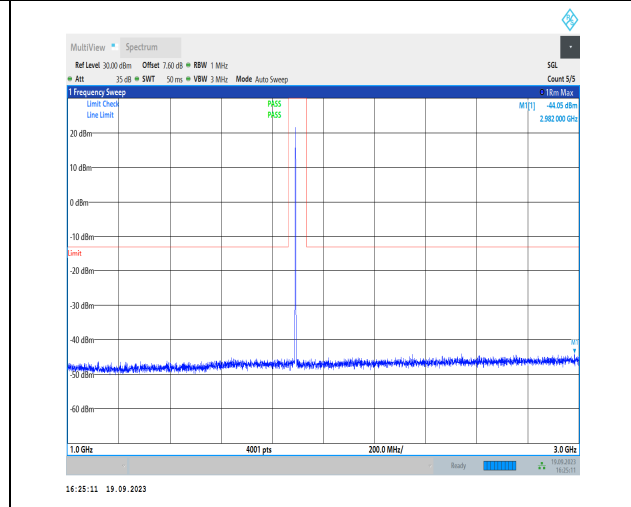
1-N2-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant31-0.02--78.44--43-PASS



1-N2-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant31-29.40--85.49--33-PASS



1-N2-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant31-34.37--58.63--23-PASS



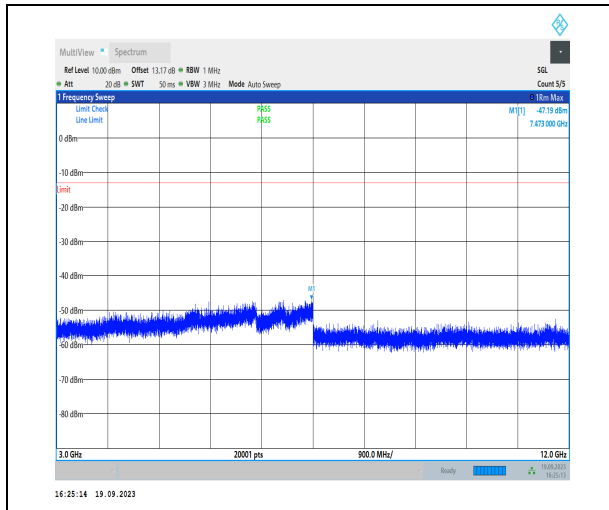
1-N2-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant31-2982.00--44.05--13-PASS



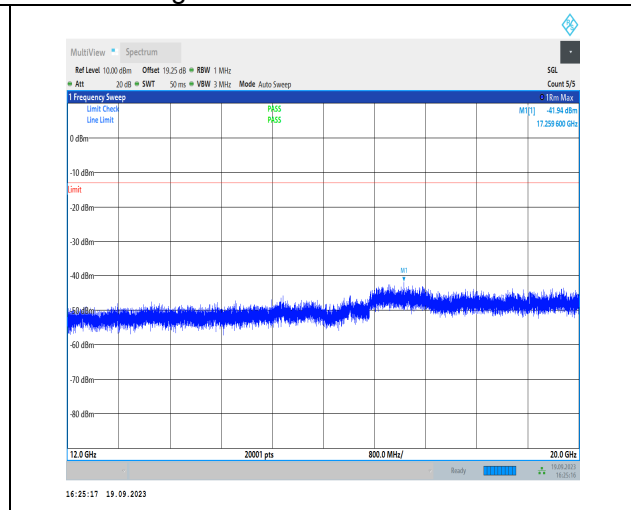
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1-N2-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB
_Left-1@1-3000-12000-Ant31-7473.00--47.19--13-P
ASS



1-N2-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_
Left-1@1-12000-20000-Ant31-17259.60--41.94--13-P
ASS



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Field Strength of Spurious Radiation

Test Band = SA Band2_ 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	3702.1800	39.34	-45.51	28.80	-72.63	-13.00	59.63	Horizontal
2	5553.2700	38.70	-45.15	32.61	-69.10	-13.00	56.10	Horizontal
3	7404.3600	37.28	-43.40	36.33	-65.04	-13.00	52.04	Horizontal
4	9255.4500	30.73	-40.23	36.79	-67.98	-13.00	54.98	Horizontal
5	11106.5400	25.96	-37.93	38.71	-68.52	-13.00	55.52	Horizontal
6	12957.6300	24.95	-37.24	39.09	-68.46	-13.00	55.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.1800	40.65	-45.51	28.80	-71.32	-13.00	58.32	Vertical
2	5553.2700	38.91	-45.15	32.61	-68.89	-13.00	55.89	Vertical
3	7404.3600	36.58	-43.40	36.33	-65.74	-13.00	52.74	Vertical
4	9255.4500	30.81	-40.23	36.79	-67.90	-13.00	54.90	Vertical
5	11106.5400	26.19	-37.93	38.71	-68.29	-13.00	55.29	Vertical
6	12957.6300	24.63	-37.24	39.09	-68.78	-13.00	55.78	Vertical



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Test Band = SA Band2_ 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	3742.1800	39.73	-45.68	28.84	-72.37	-13.00	59.37	Horizontal
2	5613.2700	38.45	-45.04	32.62	-69.23	-13.00	56.23	Horizontal
3	7484.3600	36.44	-43.18	36.56	-65.44	-13.00	52.44	Horizontal
4	9355.4500	31.12	-40.00	36.98	-67.17	-13.00	54.17	Horizontal
5	11226.5400	27.54	-37.40	38.72	-66.40	-13.00	53.40	Horizontal
6	13097.6300	24.91	-37.01	39.28	-68.08	-13.00	55.08	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.1800	40.48	-45.68	28.84	-71.62	-13.00	58.62	Vertical
2	5613.2700	38.65	-45.04	32.62	-69.03	-13.00	56.03	Vertical
3	7484.3600	36.24	-43.18	36.56	-65.64	-13.00	52.64	Vertical
4	9355.4500	30.74	-40.00	36.98	-67.55	-13.00	54.55	Vertical
5	11226.5400	27.55	-37.40	38.72	-66.39	-13.00	53.39	Vertical
6	13097.6300	24.53	-37.01	39.28	-68.46	-13.00	55.46	Vertical



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Test Band = SA Band2_ 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	3782.1800	39.94	-45.85	28.88	-72.28	-13.00	59.28	Horizontal
2	5673.2700	38.56	-44.91	32.63	-68.97	-13.00	55.97	Horizontal
3	7564.3600	36.82	-43.00	36.63	-64.82	-13.00	51.82	Horizontal
4	9455.4500	32.96	-40.05	37.17	-65.19	-13.00	52.19	Horizontal
5	11346.5400	27.00	-37.40	38.73	-66.92	-13.00	53.92	Horizontal
6	13237.6300	23.80	-37.08	39.53	-69.01	-13.00	56.01	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.1800	39.77	-45.85	28.88	-72.45	-13.00	59.45	Vertical
2	5673.2700	38.09	-44.91	32.63	-69.44	-13.00	56.44	Vertical
3	7564.3600	36.19	-43.00	36.63	-65.45	-13.00	52.45	Vertical
4	9455.4500	32.14	-40.05	37.17	-66.01	-13.00	53.01	Vertical
5	11346.5400	26.94	-37.40	38.73	-66.98	-13.00	53.98	Vertical
6	13237.6300	23.54	-37.08	39.53	-69.27	-13.00	56.27	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) - 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)	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	4.30	0.00	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	3.80	0.00	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	4.70	0.00	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VH	NT	-4.40	0.00	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VN	NT	3.50	0.00	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VL	NT	3.30	0.00	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	6.000000	0.003191	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	4.000000	0.002128	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	3.100000	0.001649	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	9.400000	0.005000	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	6.500000	0.003457	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	6.200000	0.003298	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	8.800000	0.004681	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	3.500000	0.001862	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	3.400000	0.001809	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-30	-3.500000	-0.001862	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-20	-4.300000	-0.002287	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-10	3.500000	0.001862	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	0	-2.800000	-0.001489	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	10	2.400000	0.001277	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	20	-2.200000	-0.001170	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	30	3.900000	0.002074	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	40	5.400000	0.002872	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	50	-2.700000	-0.001436	PASS

---End of Attachment---



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