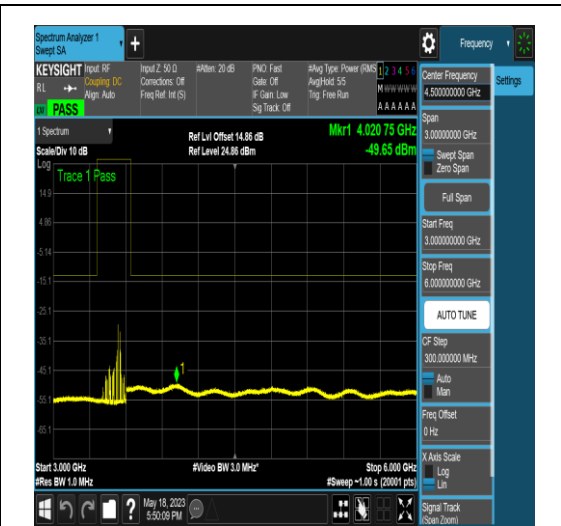
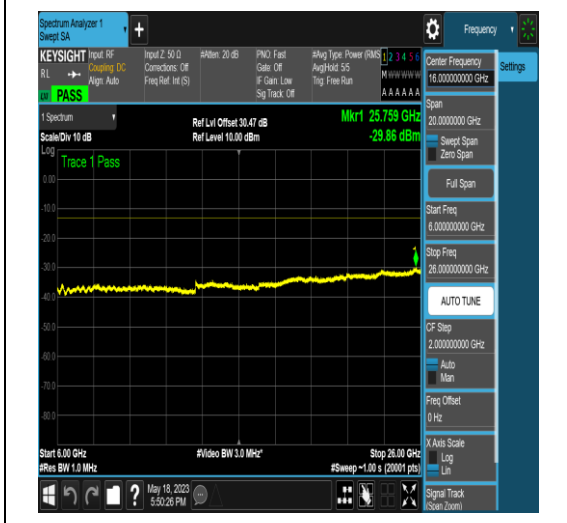




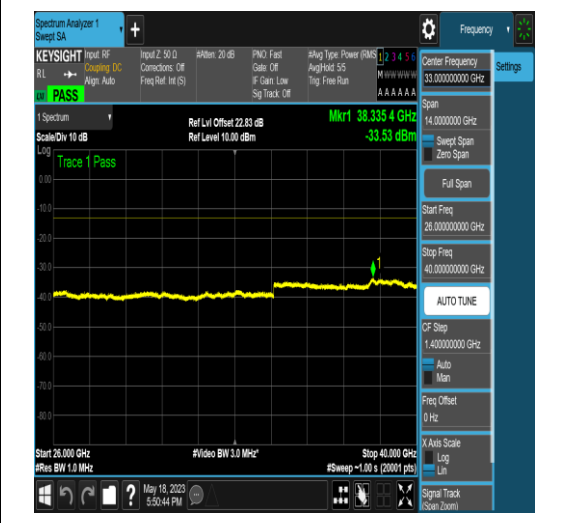
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A_1000_3000_#1



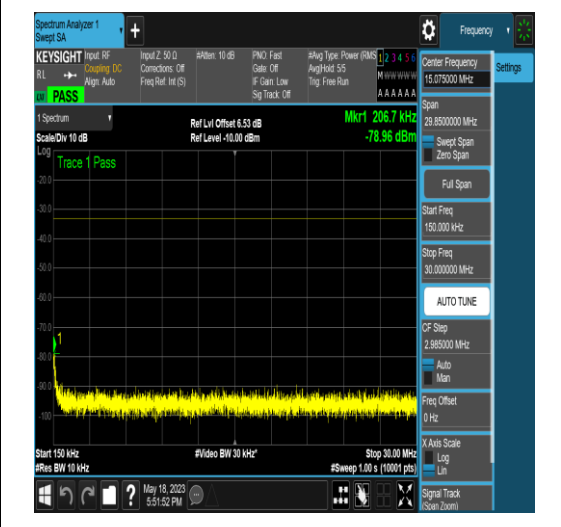
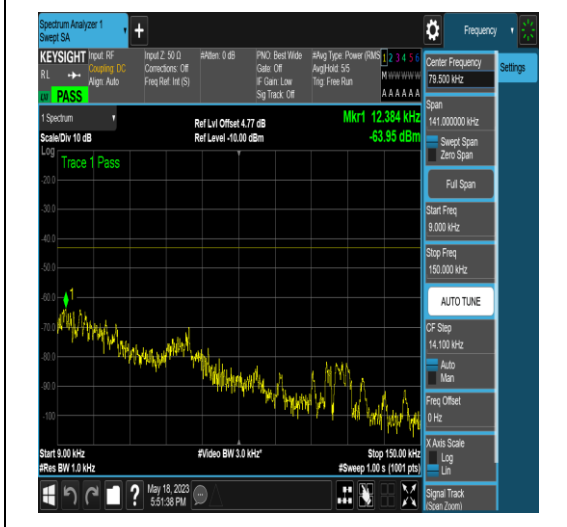
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A_3000_6000_#1

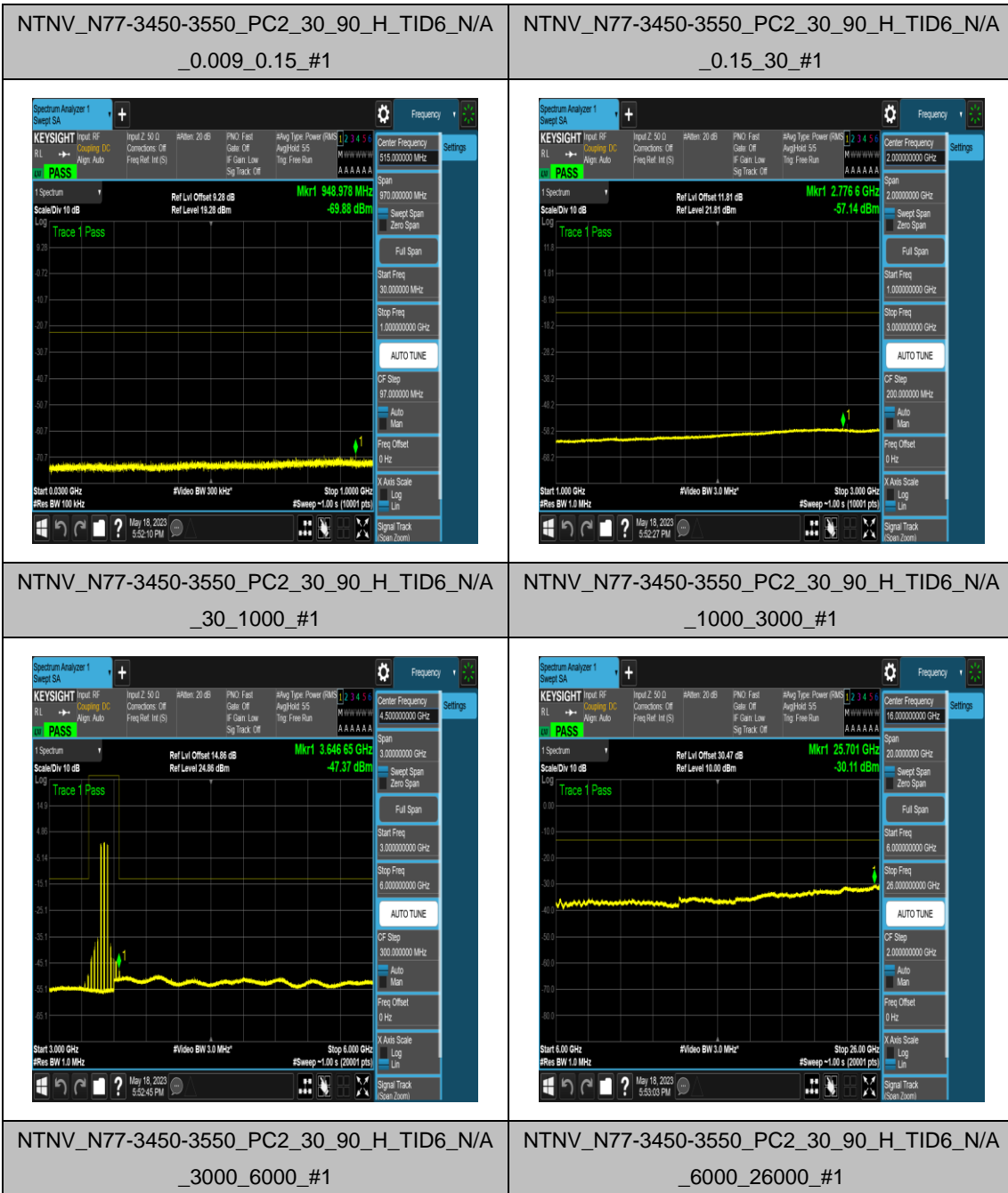


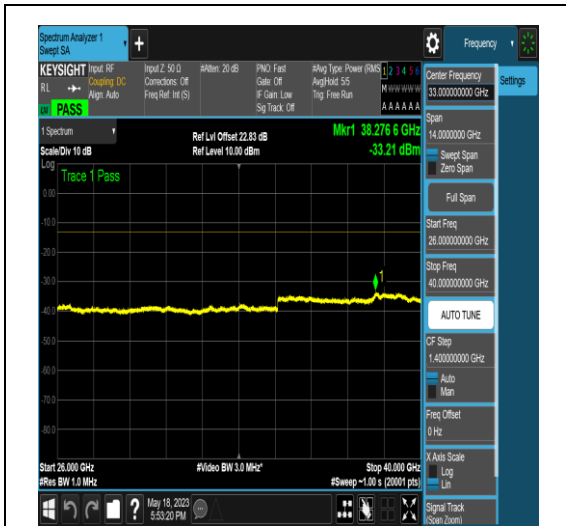
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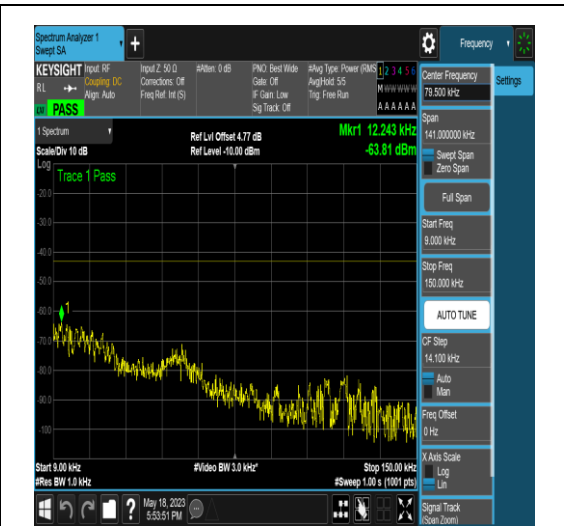
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A_26000_40000_#1



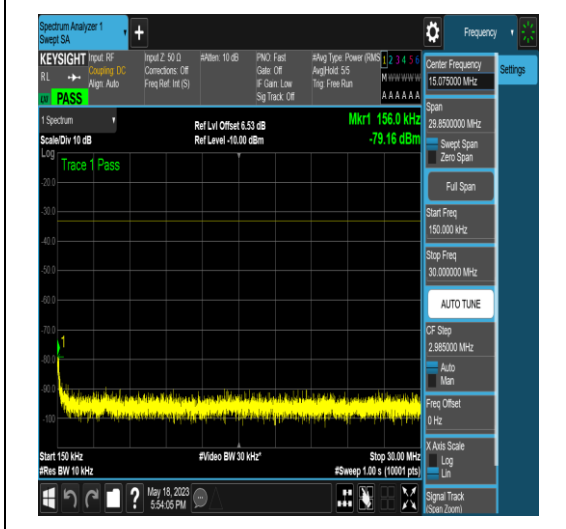




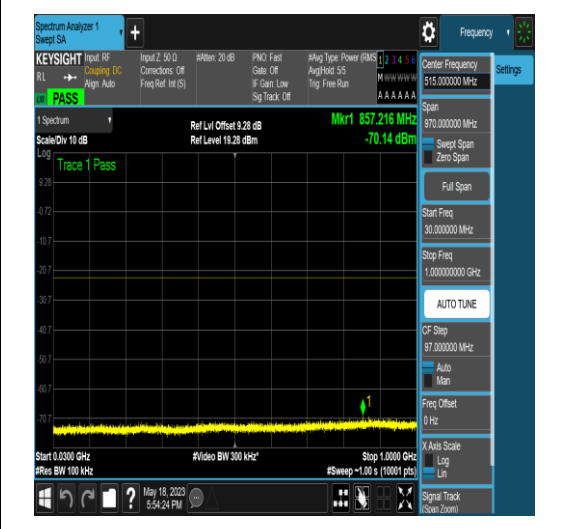
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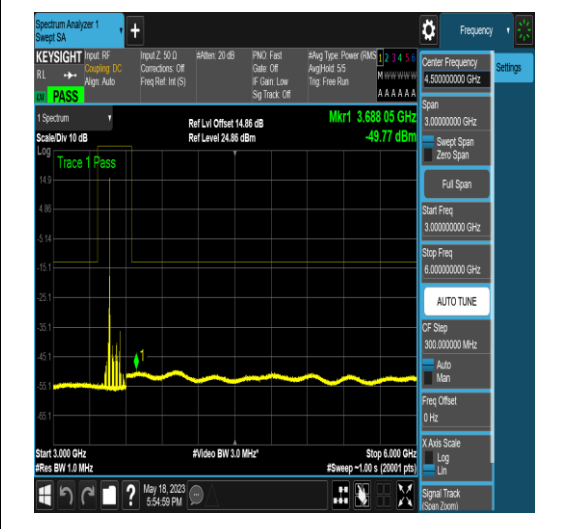
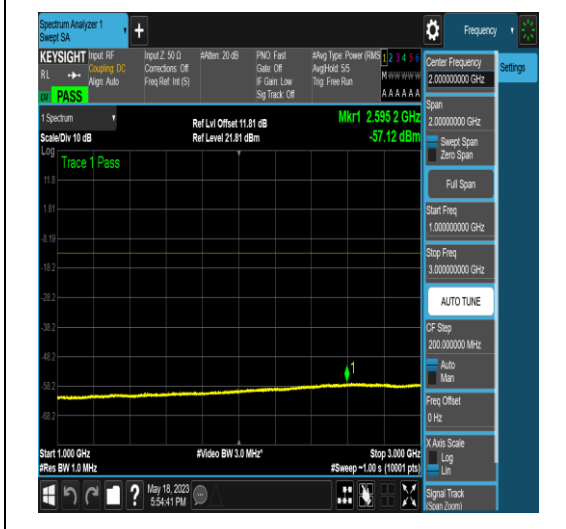
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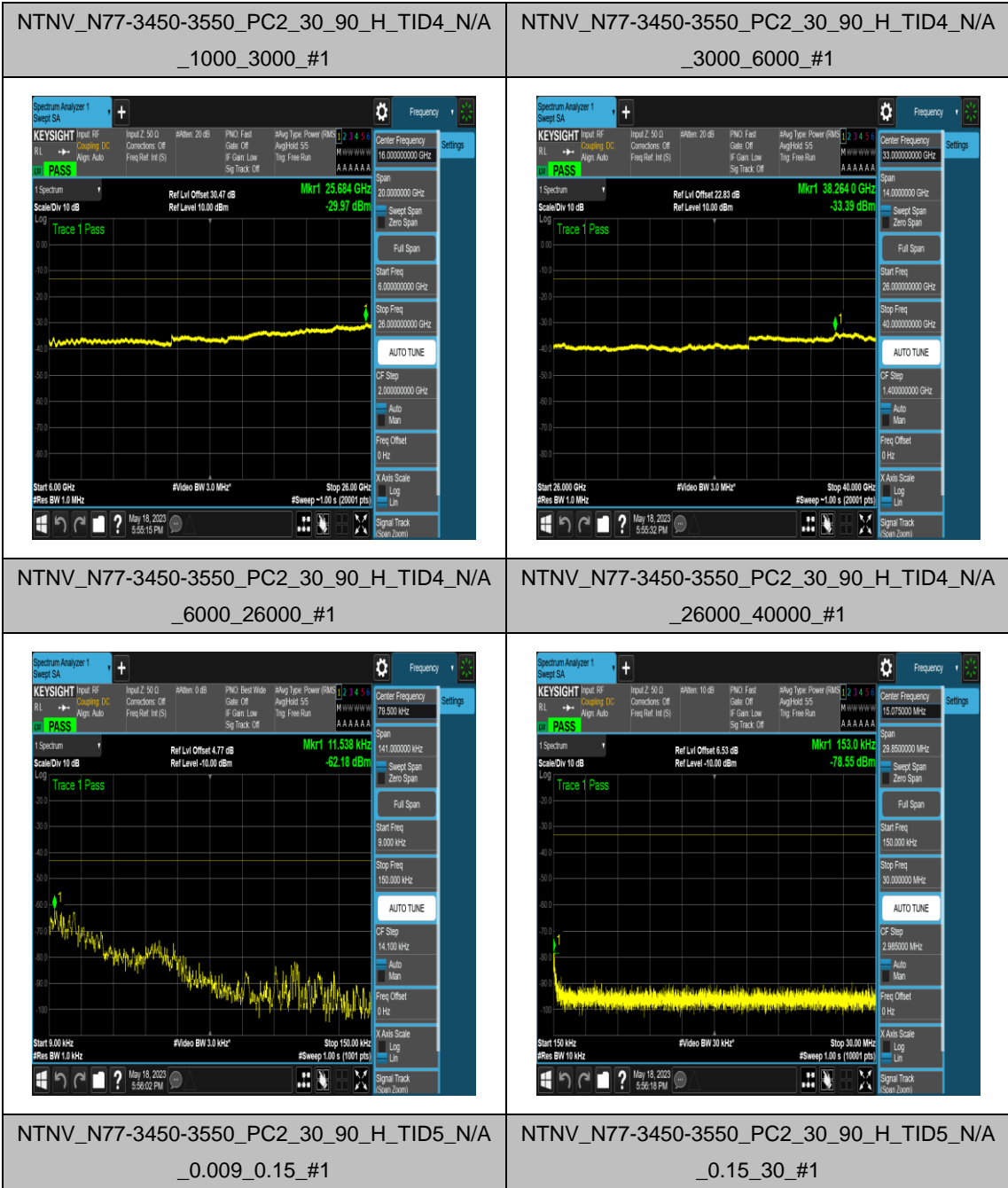


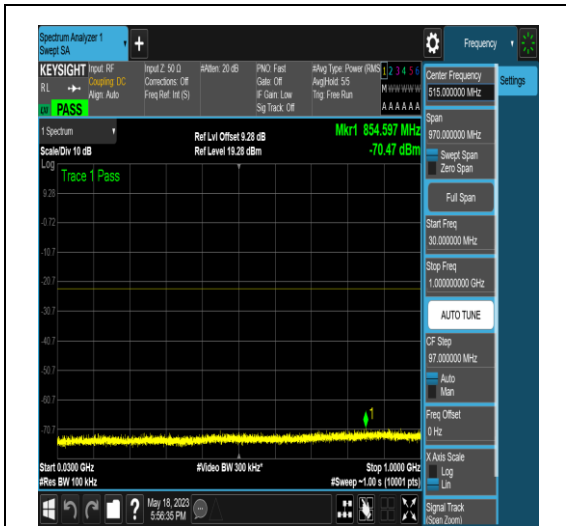
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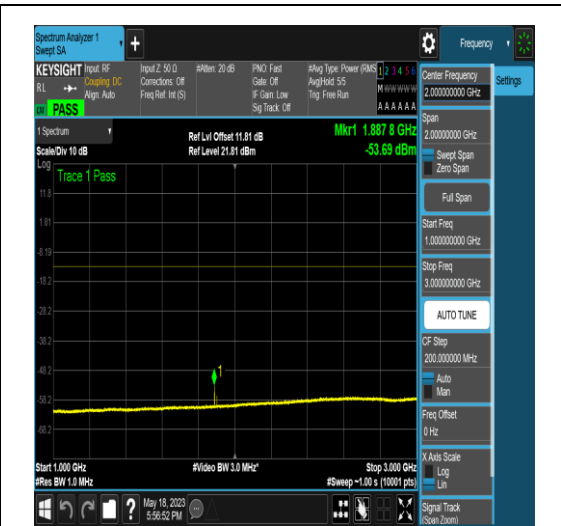
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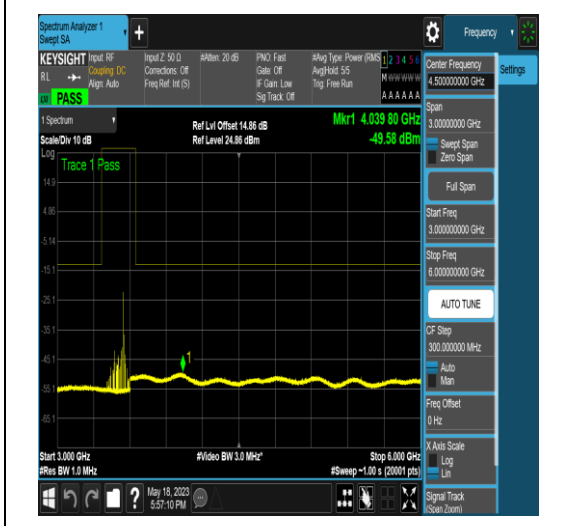




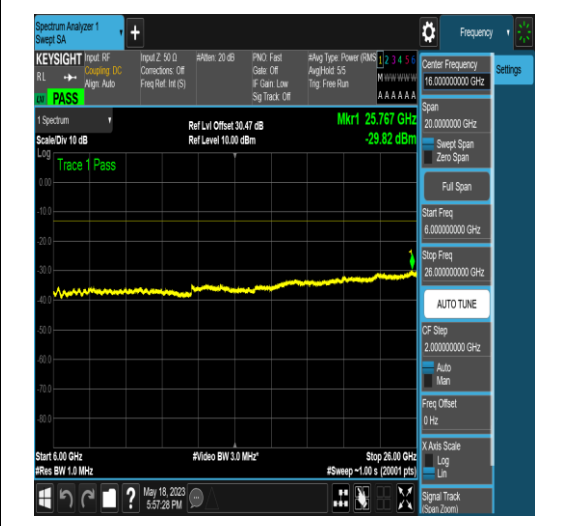
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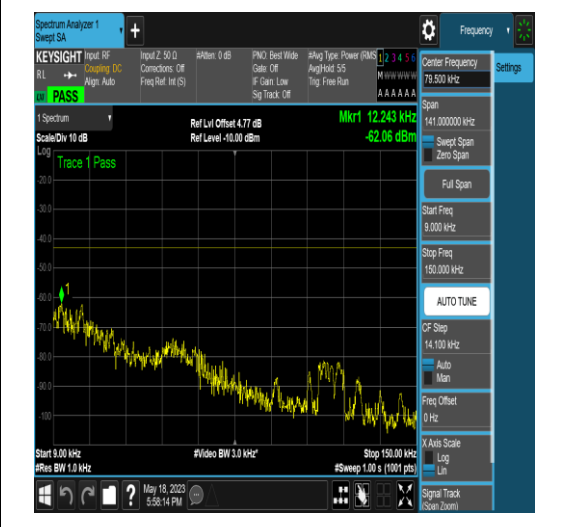
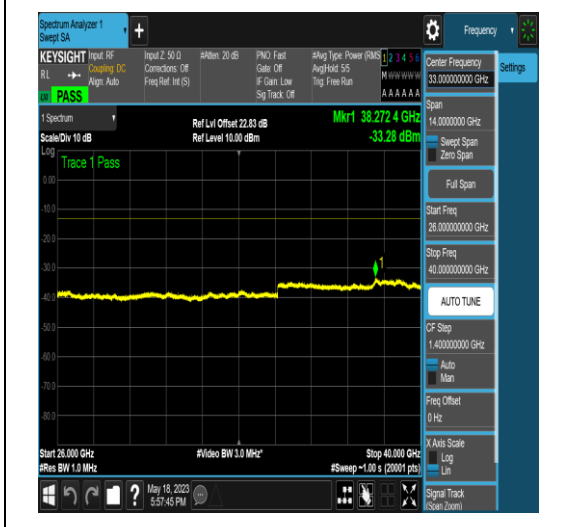
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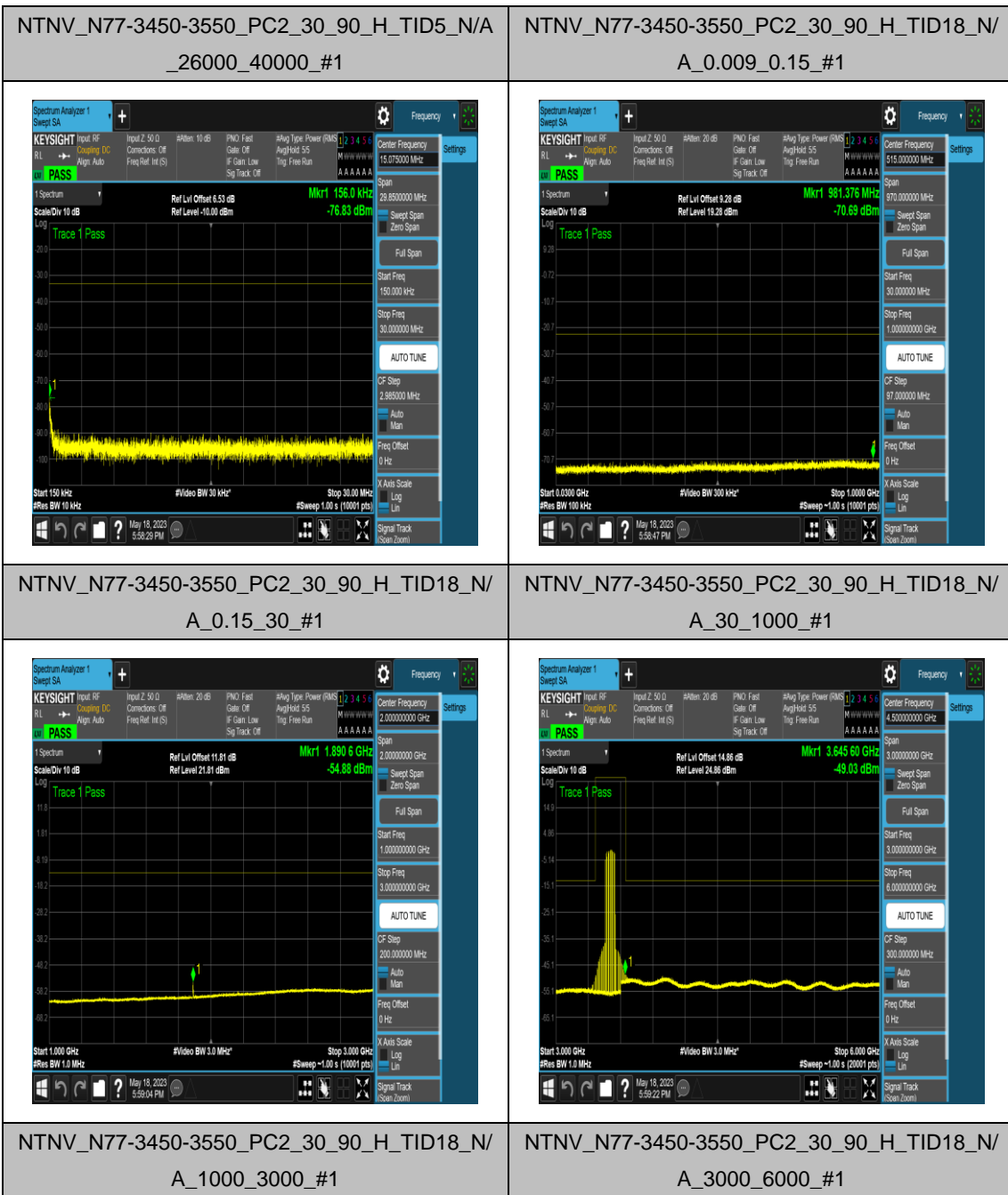


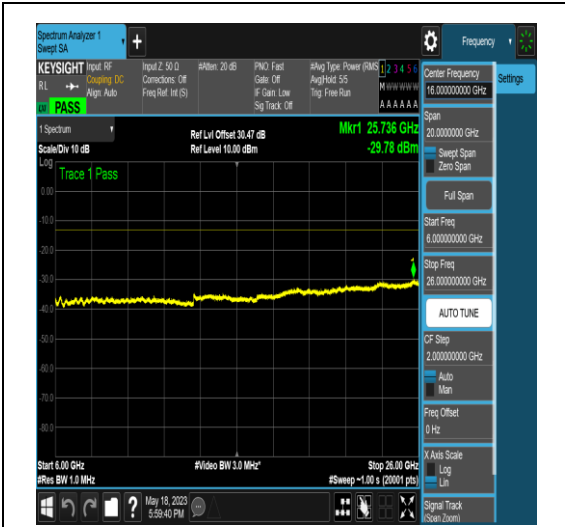
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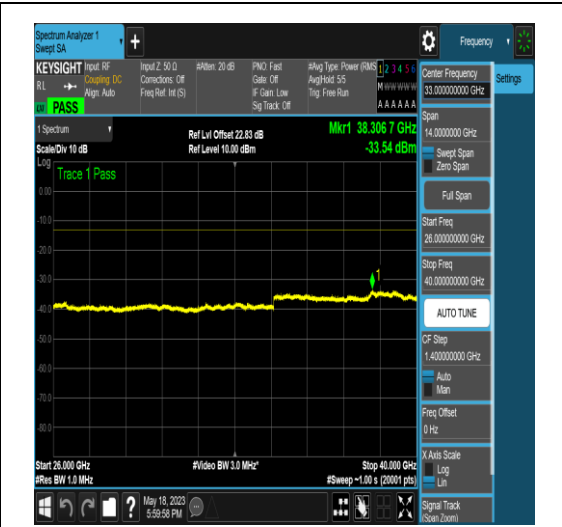
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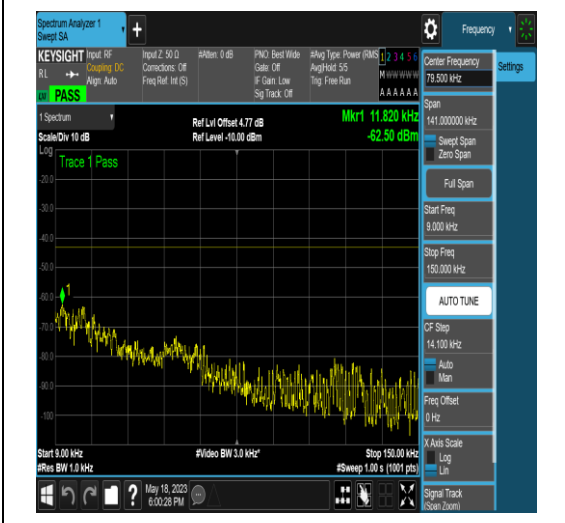




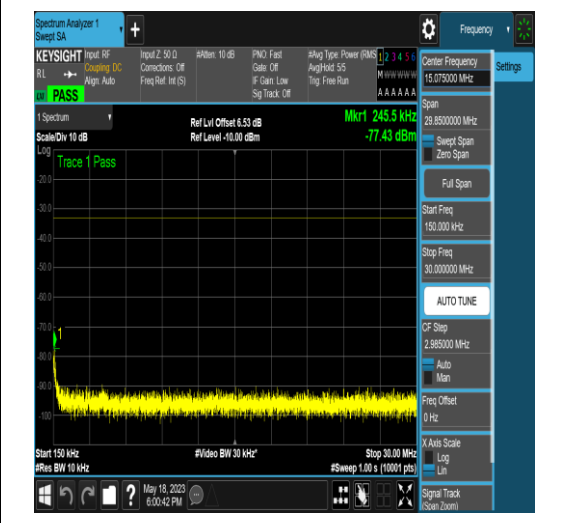
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A_6000_26000_#1



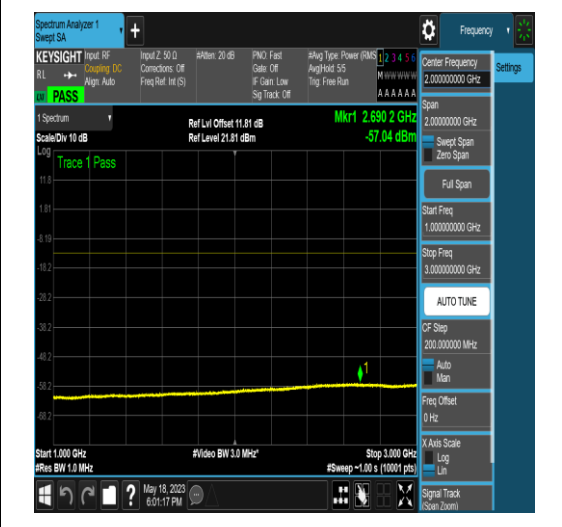
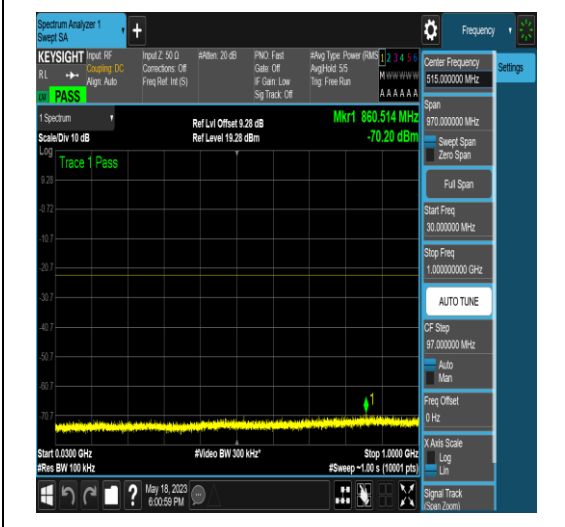
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A_26000_40000_#1

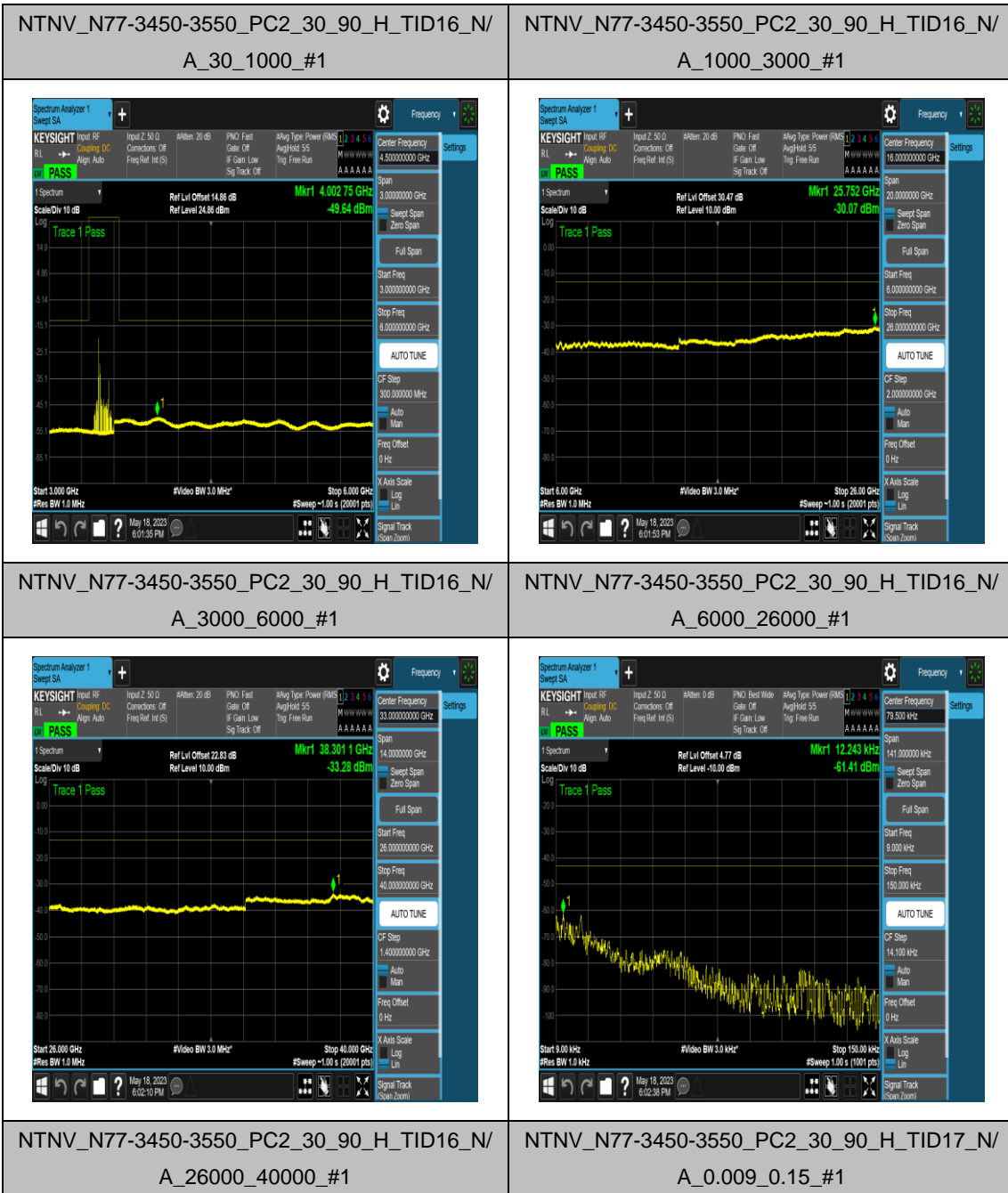


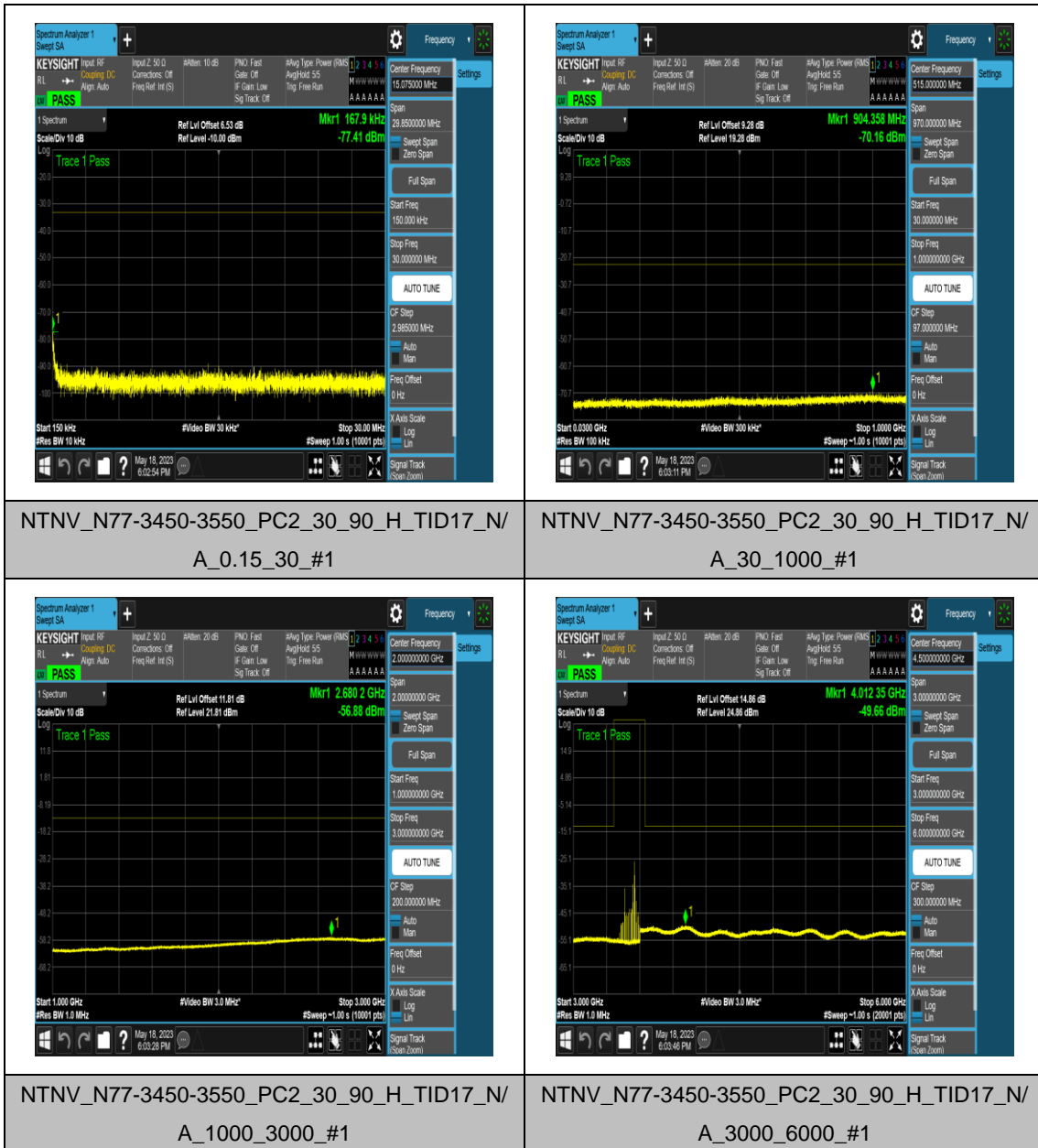
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A_0.15_30_#1





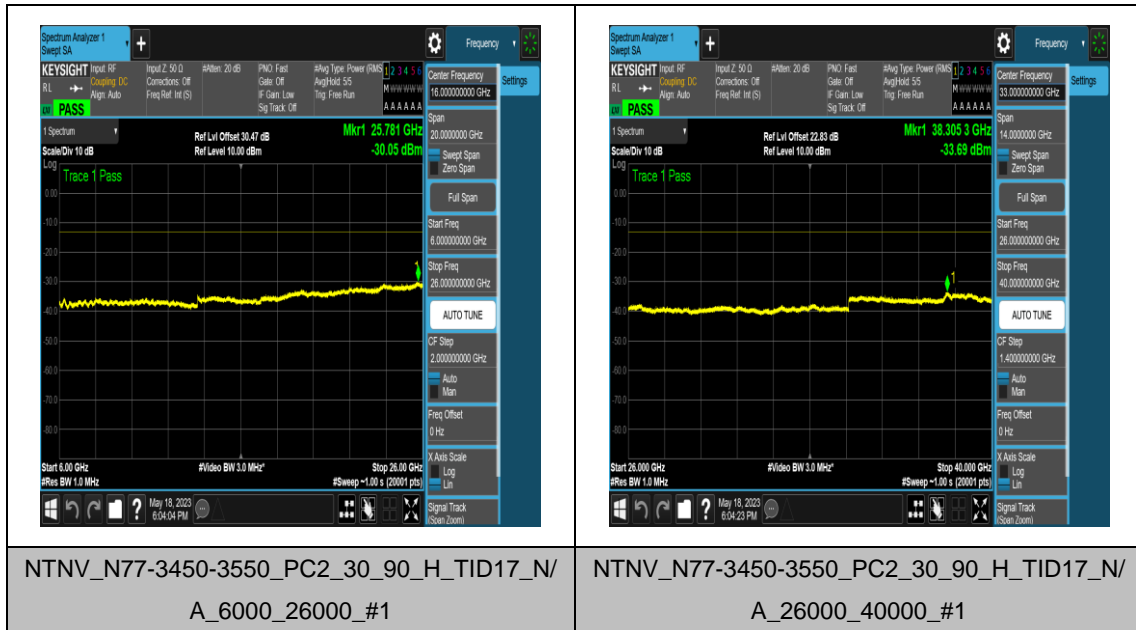


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A_0.15_30_#1

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A_30_1000_#1

NTNV_N77-3450-3550_PC2_30_90_H_TID17_N/
A_1000_3000_#1

NTNV_N77-3450-3550_PC2_30_90_H_TID17_N/
A_3000_6000_#1



Appendix F: 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
N77-345 0-3550	30	10	DFT-QPSK	L	Outer_Full	VN	NT	-1.06	0.00	PASS
N77-345 0-3550	30	10	CP-QPSK	L	Outer_Full	VN	NT	-7.22	0.00	PASS
N77-345 0-3550	30	10	DFT-QPSK	M	Outer_Full	VN	NT	1.95	0.00	PASS
N77-345 0-3550	30	10	CP-QPSK	M	Outer_Full	VN	NT	-4.16	0.00	PASS
N77-345 0-3550	30	10	DFT-QPSK	H	Outer_Full	VN	NT	-7.16	0.00	PASS
N77-345 0-3550	30	10	CP-QPSK	H	Outer_Full	VN	NT	-4.47	0.00	PASS
N77-345 0-3550	30	15	DFT-QPSK	L	Outer_Full	VN	NT	-6.78	0.00	PASS
N77-345 0-3550	30	15	CP-QPSK	L	Outer_Full	VN	NT	-5.18	0.00	PASS
N77-345 0-3550	30	15	DFT-QPSK	M	Outer_Full	VN	NT	-4.94	0.00	PASS
N77-345 0-3550	30	15	CP-QPSK	M	Outer_Full	VN	NT	-1.57	0.00	PASS
N77-345 0-3550	30	15	DFT-QPSK	H	Outer_Full	VN	NT	-2.07	0.00	PASS
N77-345 0-3550	30	15	CP-QPSK	H	Outer_Full	VN	NT	-3.63	0.00	PASS
N77-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	VN	NT	-3.71	0.00	PASS
N77-345 0-3550	30	20	CP-QPSK	L	Outer_Full	VN	NT	-3.53	0.00	PASS
N77-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	VN	NT	-0.41	0.00	PASS
N77-345 0-3550	30	20	CP-QPSK	M	Outer_Full	VN	NT	-5.36	0.00	PASS

N77-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	VN	NT	-4.74	0.00	PASS
N77-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VN	NT	-3.82	0.00	PASS
N77-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	VN	NT	-5.23	0.00	PASS
N77-345 0-3550	30	40	CP-QPSK	L	Outer_Full	VN	NT	-3.41	0.00	PASS
N77-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	VN	NT	-7.68	0.00	PASS
N77-345 0-3550	30	40	CP-QPSK	M	Outer_Full	VN	NT	-9.16	0.00	PASS
N77-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	VN	NT	-1.44	0.00	PASS
N77-345 0-3550	30	40	CP-QPSK	H	Outer_Full	VN	NT	-11.07	0.00	PASS
N77-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	VN	NT	-2.05	0.00	PASS
N77-345 0-3550	30	50	CP-QPSK	L	Outer_Full	VN	NT	-2.08	0.00	PASS
N77-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	VN	NT	-8.22	0.00	PASS
N77-345 0-3550	30	50	CP-QPSK	M	Outer_Full	VN	NT	-4.93	0.00	PASS
N77-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	VN	NT	-0.15	0.00	PASS
N77-345 0-3550	30	50	CP-QPSK	H	Outer_Full	VN	NT	0.55	0.00	PASS
N77-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	VN	NT	-3.51	0.00	PASS
N77-345 0-3550	30	60	CP-QPSK	L	Outer_Full	VN	NT	-4.58	0.00	PASS
N77-345 0-3550	30	60	DFT-QPSK	M	Outer_Full	VN	NT	-8.83	0.00	PASS
N77-345 0-3550	30	60	CP-QPSK	M	Outer_Full	VN	NT	-17.03	0.00	PASS
N77-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	VN	NT	-4.63	0.00	PASS
N77-345 0-3550	30	60	CP-QPSK	H	Outer_Full	VN	NT	-4.05	0.00	PASS
N77-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	VN	NT	-6.23	0.00	PASS

N77-345 0-3550	30	80	CP-QPSK	L	Outer_Full	VN	NT	-4.25	0.00	PASS
N77-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	VN	NT	-11.10	0.00	PASS
N77-345 0-3550	30	80	CP-QPSK	M	Outer_Full	VN	NT	0.53	0.00	PASS
N77-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	VN	NT	-3.13	0.00	PASS
N77-345 0-3550	30	80	CP-QPSK	H	Outer_Full	VN	NT	-3.57	0.00	PASS
N77-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	VN	NT	-2.82	0.00	PASS
N77-345 0-3550	30	90	CP-QPSK	L	Outer_Full	VN	NT	-2.18	0.00	PASS
N77-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	VN	NT	-3.58	0.00	PASS
N77-345 0-3550	30	90	CP-QPSK	M	Outer_Full	VN	NT	-3.02	0.00	PASS
N77-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	VN	NT	-8.02	0.00	PASS
N77-345 0-3550	30	90	CP-QPSK	H	Outer_Full	VN	NT	-0.13	0.00	PASS
N77-345 0-3550	30	100	DFT-QPSK	M	Outer_Full	VN	NT	-2.41	0.00	PASS
N77-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-2.98	0.00	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-345 0-3550	30	10	DFT-QPSK	L	Outer_Full	NV	TN	-6.693067	-0.001937	PASS
N77-345 0-3550	30	10	CP-QPSK	L	Outer_Full	NV	TN	-5.736880	-0.001660	PASS
N77-345 0-3550	30	10	DFT-QPSK	M	Outer_Full	NV	TN	-2.663346	-0.000761	PASS
N77-345 0-3550	30	10	CP-QPSK	M	Outer_Full	NV	TN	-2.130898	-0.000609	PASS
N77-345 0-3550	30	10	DFT-QPSK	H	Outer_Full	NV	TN	-7.958072	-0.002245	PASS

N77-345 0-3550	30	10	CP-QPSK	H	Outer_Full	NV	TN	-4.253204	-0.001200	PASS
N77-345 0-3550	30	15	DFT-QPSK	L	Outer_Full	NV	TN	-4.278449	-0.001237	PASS
N77-345 0-3550	30	15	CP-QPSK	L	Outer_Full	NV	TN	-1.965440	-0.000568	PASS
N77-345 0-3550	30	15	DFT-QPSK	M	Outer_Full	NV	TN	-5.484289	-0.001567	PASS
N77-345 0-3550	30	15	CP-QPSK	M	Outer_Full	NV	TN	-10.420510	-0.002977	PASS
N77-345 0-3550	30	15	DFT-QPSK	H	Outer_Full	NV	TN	-4.053420	-0.001144	PASS
N77-345 0-3550	30	15	CP-QPSK	H	Outer_Full	NV	TN	-0.369042	-0.000104	PASS
N77-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	TN	-3.568675	-0.001031	PASS
N77-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	TN	-6.069689	-0.001754	PASS
N77-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	TN	-9.583692	-0.002738	PASS
N77-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	TN	-1.971315	-0.000563	PASS
N77-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	TN	-1.876724	-0.000530	PASS
N77-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	TN	-3.431291	-0.000969	PASS
N77-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	NV	TN	0.463523	0.000134	PASS
N77-345 0-3550	30	40	CP-QPSK	L	Outer_Full	NV	TN	-2.280717	-0.000657	PASS
N77-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	NV	TN	-5.666466	-0.001619	PASS
N77-345 0-3550	30	40	CP-QPSK	M	Outer_Full	NV	TN	-6.672873	-0.001907	PASS
N77-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	NV	TN	-1.719062	-0.000487	PASS
N77-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	TN	-5.590240	-0.001584	PASS
N77-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	TN	-2.679230	-0.000771	PASS
N77-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	TN	-5.690859	-0.001638	PASS

N77-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	TN	-4.861002	-0.001389	PASS
N77-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	TN	-6.632420	-0.001895	PASS
N77-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	TN	-5.230843	-0.001484	PASS
N77-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	TN	-4.862514	-0.001379	PASS
N77-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	TN	-3.025933	-0.000870	PASS
N77-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	TN	-4.129734	-0.001187	PASS
N77-345 0-3550	30	60	DFT-QPSK	M	Outer_Full	NV	TN	-5.865633	-0.001676	PASS
N77-345 0-3550	30	60	CP-QPSK	M	Outer_Full	NV	TN	-11.125624	-0.003179	PASS
N77-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	NV	TN	-4.711569	-0.001339	PASS
N77-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	TN	-1.609768	-0.000457	PASS
N77-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	TN	-5.695662	-0.001632	PASS
N77-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	TN	-5.268115	-0.001509	PASS
N77-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	TN	2.274782	0.000650	PASS
N77-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	TN	-6.527857	-0.001865	PASS
N77-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	TN	-6.846472	-0.001951	PASS
N77-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	TN	-0.079479	-0.000023	PASS
N77-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	TN	-6.194888	-0.001773	PASS
N77-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	TN	-6.001481	-0.001717	PASS
N77-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	TN	-7.332842	-0.002095	PASS
N77-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	TN	-6.303592	-0.001801	PASS
N77-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	TN	-4.905237	-0.001400	PASS

N77-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	TN	-5.282332	-0.001507	PASS
N77-345 0-3550	30	100	DFT-QPSK	M	Outer_Full	NV	TN	-6.303479	-0.001801	PASS
N77-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	TN	-2.723361	-0.000778	PASS