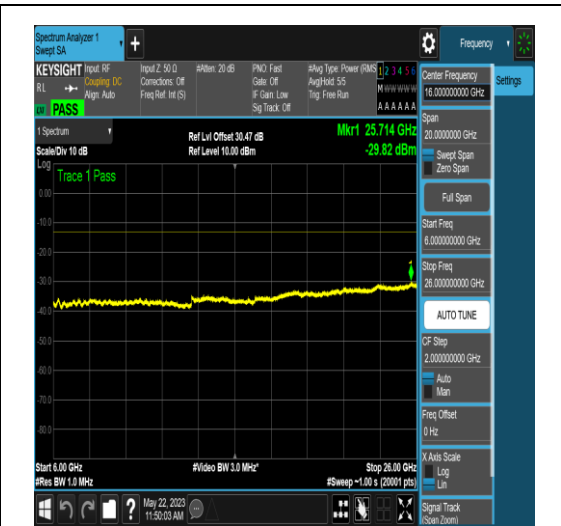
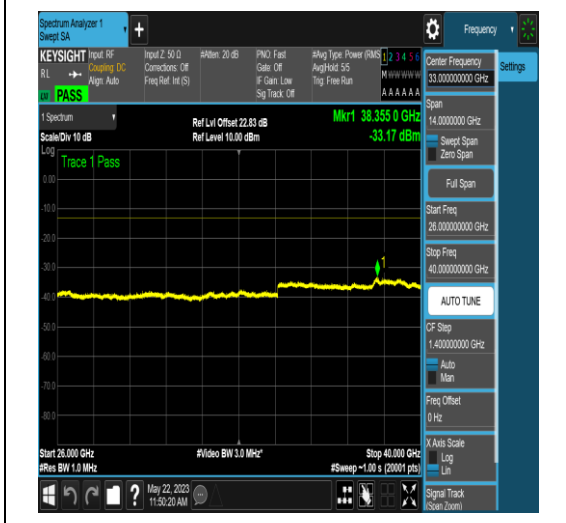


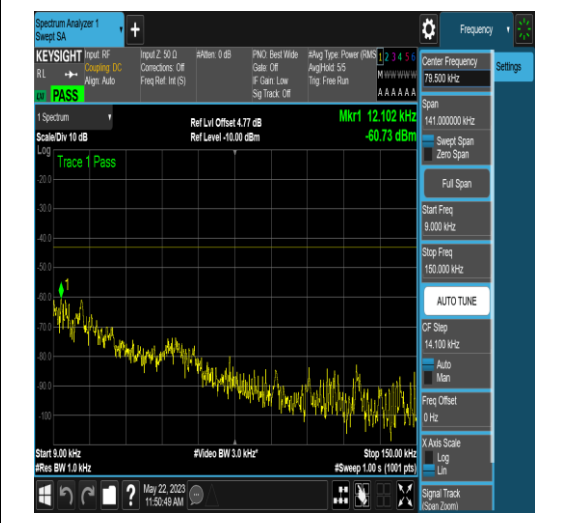
NTNV\_N77-3700-3980\_PC2\_30\_90\_H\_TID16\_N  
S\_01\_3000\_6000\_#1



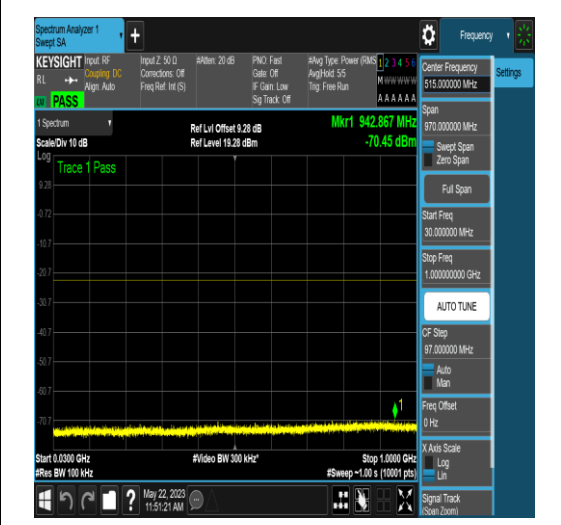
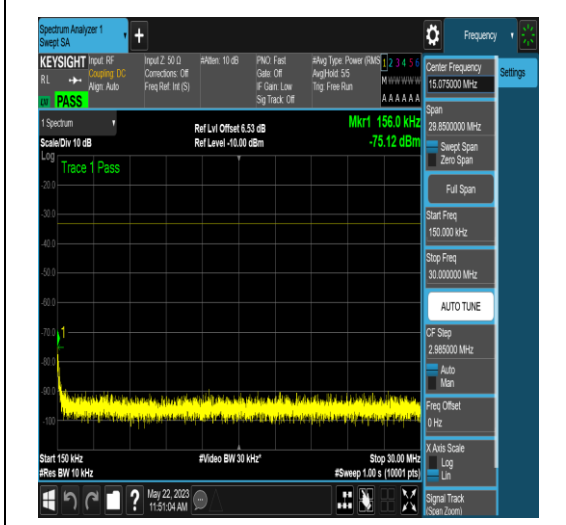
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S\_01\_6000\_26000\_#1

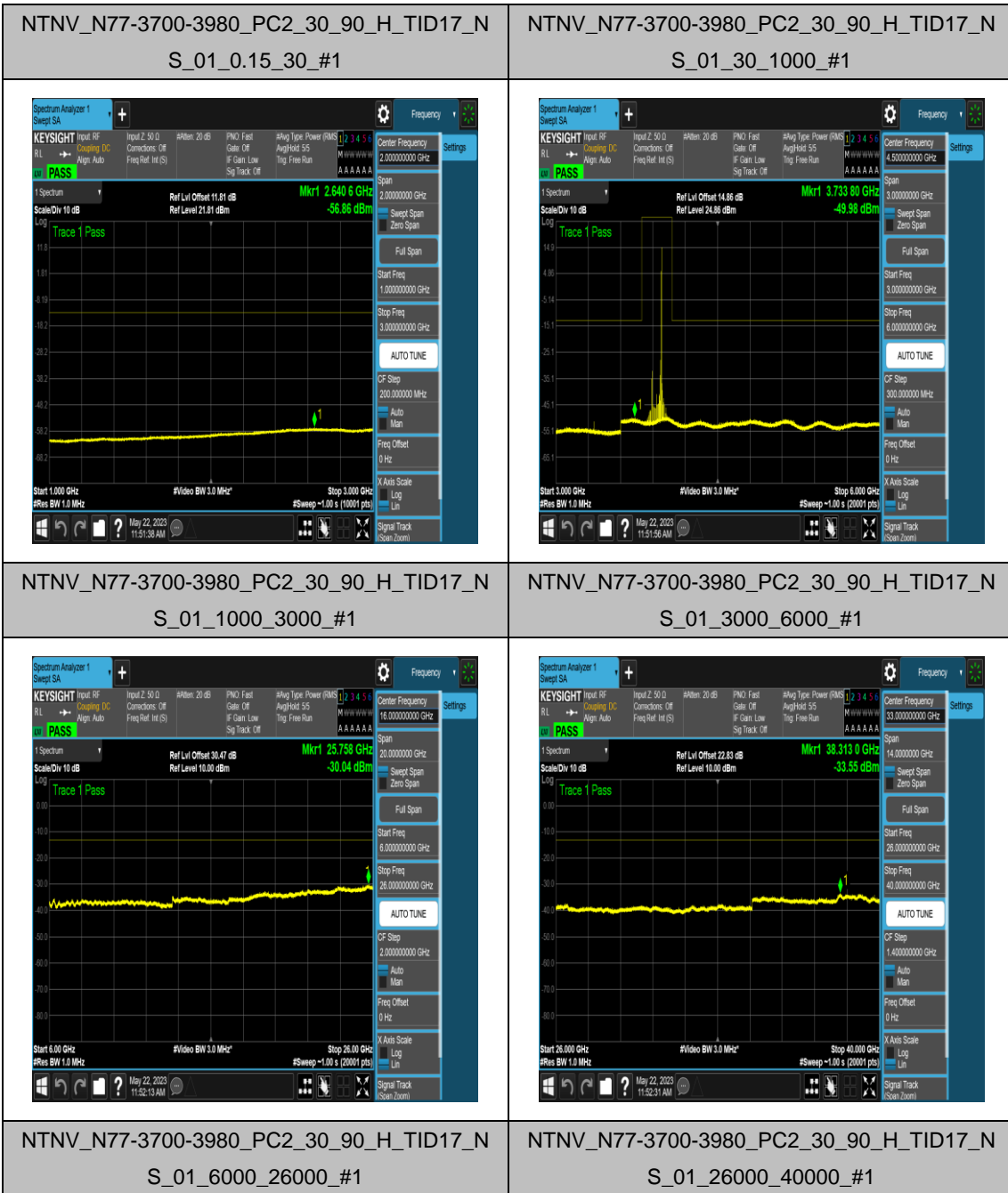


NTNV\_N77-3700-3980\_PC2\_30\_90\_H\_TID16\_N  
S\_01\_26000\_40000\_#1



NTNV\_N77-3700-3980\_PC2\_30\_90\_H\_TID17\_N  
S\_01\_0.009\_0.15\_#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
N77-370 0-3980	30	10	DFT-QPSK	L	Outer_Full	VN	NT	-3.04	0.00	PASS
N77-370 0-3980	30	10	CP-QPSK	L	Outer_Full	VN	NT	-1.43	0.00	PASS
N77-370 0-3980	30	10	DFT-QPSK	M	Outer_Full	VN	NT	-0.86	0.00	PASS
N77-370 0-3980	30	10	CP-QPSK	M	Outer_Full	VN	NT	-0.54	0.00	PASS
N77-370 0-3980	30	10	DFT-QPSK	H	Outer_Full	VN	NT	-7.44	0.00	PASS
N77-370 0-3980	30	10	CP-QPSK	H	Outer_Full	VN	NT	-8.90	0.00	PASS
N77-370 0-3980	30	15	DFT-QPSK	L	Outer_Full	VN	NT	-4.16	0.00	PASS
N77-370 0-3980	30	15	CP-QPSK	L	Outer_Full	VN	NT	0.28	0.00	PASS
N77-370 0-3980	30	15	DFT-QPSK	M	Outer_Full	VN	NT	-3.65	0.00	PASS
N77-370 0-3980	30	15	CP-QPSK	M	Outer_Full	VN	NT	0.88	0.00	PASS
N77-370 0-3980	30	15	DFT-QPSK	H	Outer_Full	VN	NT	-7.73	0.00	PASS
N77-370 0-3980	30	15	CP-QPSK	H	Outer_Full	VN	NT	-4.42	0.00	PASS
N77-370 0-3980	30	20	DFT-QPSK	L	Outer_Full	VN	NT	-5.36	0.00	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	VN	NT	-3.50	0.00	PASS
N77-370 0-3980	30	20	DFT-QPSK	M	Outer_Full	VN	NT	-8.07	0.00	PASS
N77-370	30	20	CP-QPSK	M	Outer_Full	VN	NT	-3.25	0.00	PASS

0-3980										
N77-370 0-3980	30	20	DFT-QPSK	H	Outer_Full	VN	NT	-8.37	0.00	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	VN	NT	-4.75	0.00	PASS
N77-370 0-3980	30	40	DFT-QPSK	L	Outer_Full	VN	NT	0.03	0.00	PASS
N77-370 0-3980	30	40	CP-QPSK	L	Outer_Full	VN	NT	-7.39	0.00	PASS
N77-370 0-3980	30	40	DFT-QPSK	M	Outer_Full	VN	NT	-9.07	0.00	PASS
N77-370 0-3980	30	40	CP-QPSK	M	Outer_Full	VN	NT	-6.69	0.00	PASS
N77-370 0-3980	30	40	DFT-QPSK	H	Outer_Full	VN	NT	1.55	0.00	PASS
N77-370 0-3980	30	40	CP-QPSK	H	Outer_Full	VN	NT	-1.48	0.00	PASS
N77-370 0-3980	30	50	DFT-QPSK	L	Outer_Full	VN	NT	-8.41	0.00	PASS
N77-370 0-3980	30	50	CP-QPSK	L	Outer_Full	VN	NT	-8.61	0.00	PASS
N77-370 0-3980	30	50	DFT-QPSK	M	Outer_Full	VN	NT	-0.97	0.00	PASS
N77-370 0-3980	30	50	CP-QPSK	M	Outer_Full	VN	NT	-7.94	0.00	PASS
N77-370 0-3980	30	50	DFT-QPSK	H	Outer_Full	VN	NT	-2.77	0.00	PASS
N77-370 0-3980	30	50	CP-QPSK	H	Outer_Full	VN	NT	2.10	0.00	PASS
N77-370 0-3980	30	60	DFT-QPSK	L	Outer_Full	VN	NT	-8.65	0.00	PASS
N77-370 0-3980	30	60	CP-QPSK	L	Outer_Full	VN	NT	-5.19	0.00	PASS
N77-370 0-3980	30	60	DFT-QPSK	M	Outer_Full	VN	NT	-4.12	0.00	PASS
N77-370 0-3980	30	60	CP-QPSK	M	Outer_Full	VN	NT	-5.63	0.00	PASS
N77-370 0-3980	30	60	DFT-QPSK	H	Outer_Full	VN	NT	-4.76	0.00	PASS
N77-370 0-3980	30	60	CP-QPSK	H	Outer_Full	VN	NT	-1.26	0.00	PASS
N77-370	30	80	DFT-QPSK	L	Outer_Full	VN	NT	-5.19	0.00	PASS

0-3980										
N77-370 0-3980	30	80	CP-QPSK	L	Outer_Full	VN	NT	-5.20	0.00	PASS
N77-370 0-3980	30	80	DFT-QPSK	M	Outer_Full	VN	NT	-7.23	0.00	PASS
N77-370 0-3980	30	80	CP-QPSK	M	Outer_Full	VN	NT	0.51	0.00	PASS
N77-370 0-3980	30	80	DFT-QPSK	H	Outer_Full	VN	NT	-7.33	0.00	PASS
N77-370 0-3980	30	80	CP-QPSK	H	Outer_Full	VN	NT	-4.51	0.00	PASS
N77-370 0-3980	30	90	DFT-QPSK	L	Outer_Full	VN	NT	-3.83	0.00	PASS
N77-370 0-3980	30	90	CP-QPSK	L	Outer_Full	VN	NT	-6.84	0.00	PASS
N77-370 0-3980	30	90	DFT-QPSK	M	Outer_Full	VN	NT	-1.83	0.00	PASS
N77-370 0-3980	30	90	CP-QPSK	M	Outer_Full	VN	NT	-5.77	0.00	PASS
N77-370 0-3980	30	90	DFT-QPSK	H	Outer_Full	VN	NT	0.78	0.00	PASS
N77-370 0-3980	30	90	CP-QPSK	H	Outer_Full	VN	NT	-6.86	0.00	PASS
N77-370 0-3980	30	100	DFT-QPSK	L	Outer_Full	VN	NT	-3.26	0.00	PASS
N77-370 0-3980	30	100	CP-QPSK	L	Outer_Full	VN	NT	-2.67	0.00	PASS
N77-370 0-3980	30	100	DFT-QPSK	M	Outer_Full	VN	NT	-8.98	0.00	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-8.00	0.00	PASS
N77-370 0-3980	30	100	DFT-QPSK	H	Outer_Full	VN	NT	-9.88	0.00	PASS
N77-370 0-3980	30	100	CP-QPSK	H	Outer_Full	VN	NT	-4.13	0.00	PASS

## Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-370 0-3980	30	10	DFT-QPSK	L	Outer_Full	NV	TN	-6.174972	-0.001667	PASS
N77-370 0-3980	30	10	CP-QPSK	L	Outer_Full	NV	TN	-6.444227	-0.001739	PASS
N77-370 0-3980	30	10	DFT-QPSK	M	Outer_Full	NV	TN	-0.583554	-0.000152	PASS
N77-370 0-3980	30	10	CP-QPSK	M	Outer_Full	NV	TN	-4.274503	-0.001113	PASS
N77-370 0-3980	30	10	DFT-QPSK	H	Outer_Full	NV	TN	-7.331666	-0.001844	PASS
N77-370 0-3980	30	10	CP-QPSK	H	Outer_Full	NV	TN	-8.977031	-0.002258	PASS
N77-370 0-3980	30	15	DFT-QPSK	L	Outer_Full	NV	TN	-4.144506	-0.001118	PASS
N77-370 0-3980	30	15	CP-QPSK	L	Outer_Full	NV	TN	-3.302409	-0.000891	PASS
N77-370 0-3980	30	15	DFT-QPSK	M	Outer_Full	NV	TN	-11.499291	-0.002995	PASS
N77-370 0-3980	30	15	CP-QPSK	M	Outer_Full	NV	TN	-2.338223	-0.000609	PASS
N77-370 0-3980	30	15	DFT-QPSK	H	Outer_Full	NV	TN	-3.970203	-0.000999	PASS
N77-370 0-3980	30	15	CP-QPSK	H	Outer_Full	NV	TN	-5.663600	-0.001426	PASS
N77-370 0-3980	30	20	DFT-QPSK	L	Outer_Full	NV	TN	0.645641	0.000174	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	TN	2.805186	0.000756	PASS
N77-370 0-3980	30	20	DFT-QPSK	M	Outer_Full	NV	TN	-3.814509	-0.000993	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	TN	-6.969964	-0.001815	PASS
N77-370 0-3980	30	20	DFT-QPSK	H	Outer_Full	NV	TN	-5.863911	-0.001477	PASS
N77-370	30	20	CP-QPSK	H	Outer_Full	NV	TN	-7.806825	-0.001966	PASS

0-3980										
N77-370 0-3980	30	40	DFT-QPSK	L	Outer_Full	NV	TN	-5.942963	-0.001598	PASS
N77-370 0-3980	30	40	CP-QPSK	L	Outer_Full	NV	TN	-3.903681	-0.001049	PASS
N77-370 0-3980	30	40	DFT-QPSK	M	Outer_Full	NV	TN	-1.850991	-0.000482	PASS
N77-370 0-3980	30	40	CP-QPSK	M	Outer_Full	NV	TN	-8.071064	-0.002102	PASS
N77-370 0-3980	30	40	DFT-QPSK	H	Outer_Full	NV	TN	-7.257301	-0.001833	PASS
N77-370 0-3980	30	40	CP-QPSK	H	Outer_Full	NV	TN	-3.740600	-0.000945	PASS
N77-370 0-3980	30	50	DFT-QPSK	L	Outer_Full	NV	TN	-6.303380	-0.001692	PASS
N77-370 0-3980	30	50	CP-QPSK	L	Outer_Full	NV	TN	-5.844890	-0.001569	PASS
N77-370 0-3980	30	50	DFT-QPSK	M	Outer_Full	NV	TN	-5.795491	-0.001509	PASS
N77-370 0-3980	30	50	CP-QPSK	M	Outer_Full	NV	TN	-2.032196	-0.000529	PASS
N77-370 0-3980	30	50	DFT-QPSK	H	Outer_Full	NV	TN	-6.160764	-0.001558	PASS
N77-370 0-3980	30	50	CP-QPSK	H	Outer_Full	NV	TN	-3.944116	-0.000997	PASS
N77-370 0-3980	30	60	DFT-QPSK	L	Outer_Full	NV	TN	-7.373374	-0.001977	PASS
N77-370 0-3980	30	60	CP-QPSK	L	Outer_Full	NV	TN	-7.209013	-0.001933	PASS
N77-370 0-3980	30	60	DFT-QPSK	M	Outer_Full	NV	TN	-4.700639	-0.001224	PASS
N77-370 0-3980	30	60	CP-QPSK	M	Outer_Full	NV	TN	-2.093001	-0.000545	PASS
N77-370 0-3980	30	60	DFT-QPSK	H	Outer_Full	NV	TN	-6.899479	-0.001747	PASS
N77-370 0-3980	30	60	CP-QPSK	H	Outer_Full	NV	TN	-4.335972	-0.001098	PASS
N77-370 0-3980	30	80	DFT-QPSK	L	Outer_Full	NV	TN	-2.421447	-0.000647	PASS
N77-370 0-3980	30	80	CP-QPSK	L	Outer_Full	NV	TN	-8.163516	-0.002183	PASS
N77-370	30	80	DFT-QPSK	M	Outer_Full	NV	TN	0.208914	0.000054	PASS

0-3980										
N77-370 0-3980	30	80	CP-QPSK	M	Outer_Full	NV	TN	-8.323136	-0.002167	PASS
N77-370 0-3980	30	80	DFT-QPSK	H	Outer_Full	NV	TN	-3.514402	-0.000892	PASS
N77-370 0-3980	30	80	CP-QPSK	H	Outer_Full	NV	TN	-4.862114	-0.001234	PASS
N77-370 0-3980	30	90	DFT-QPSK	L	Outer_Full	NV	TN	-2.638073	-0.000704	PASS
N77-370 0-3980	30	90	CP-QPSK	L	Outer_Full	NV	TN	-4.936130	-0.001318	PASS
N77-370 0-3980	30	90	DFT-QPSK	M	Outer_Full	NV	TN	-7.232009	-0.001883	PASS
N77-370 0-3980	30	90	CP-QPSK	M	Outer_Full	NV	TN	1.204642	0.000314	PASS
N77-370 0-3980	30	90	DFT-QPSK	H	Outer_Full	NV	TN	-5.972731	-0.001518	PASS
N77-370 0-3980	30	90	CP-QPSK	H	Outer_Full	NV	TN	-5.158897	-0.001311	PASS
N77-370 0-3980	30	100	DFT-QPSK	L	Outer_Full	NV	TN	-6.463292	-0.001724	PASS
N77-370 0-3980	30	100	CP-QPSK	L	Outer_Full	NV	TN	-4.000125	-0.001067	PASS
N77-370 0-3980	30	100	DFT-QPSK	M	Outer_Full	NV	TN	-3.605734	-0.000939	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	TN	-3.215493	-0.000837	PASS
N77-370 0-3980	30	100	DFT-QPSK	H	Outer_Full	NV	TN	-6.767077	-0.001722	PASS
N77-370 0-3980	30	100	CP-QPSK	H	Outer_Full	NV	TN	-11.433908	-0.002909	PASS