









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
N38	30	10	DFT-QPSK	L	Outer_Full	VL	NT	4.01	0.00	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	VN	NT	4.02	0.00	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	VH	NT	0.08	0.00	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	VL	NT	2.52	0.00	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	VN	NT	-0.49	0.00	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	VH	NT	2.16	0.00	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	VL	NT	-7.26	0.00	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	VN	NT	-2.46	0.00	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	VH	NT	-3.06	0.00	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	VL	NT	-5.93	0.00	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	VN	NT	-5.23	0.00	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	VH	NT	-4.75	0.00	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	VL	NT	-13.39	-0.01	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	VN	NT	-5.37	0.00	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	VH	NT	-8.31	0.00	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	VL	NT	-2.36	0.00	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	VN	NT	-9.47	0.00	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	VH	NT	-8.89	0.00	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	VL	NT	-10.18	0.00	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	VN	NT	-6.70	0.00	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	VH	NT	-1.28	0.00	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	VL	NT	-4.76	0.00	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	VN	NT	-7.00	0.00	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	VH	NT	-1.16	0.00	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	VL	NT	-0.48	0.00	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	VN	NT	-1.23	0.00	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	VH	NT	-3.14	0.00	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	VL	NT	2.59	0.00	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	VN	NT	0.53	0.00	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	VH	NT	3.25	0.00	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	VL	NT	6.24	0.00	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	VN	NT	4.98	0.00	PASS

N38	30	15	DFT-QPSK	H	Outer_Full	VH	NT	-3.57	0.00	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	VL	NT	5.31	0.00	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	VN	NT	-0.10	0.00	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	VH	NT	4.81	0.00	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	VL	NT	1.80	0.00	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	VN	NT	0.29	0.00	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	VH	NT	1.52	0.00	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	VL	NT	-2.66	0.00	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	VN	NT	-2.59	0.00	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	VH	NT	-1.20	0.00	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	VL	NT	-6.88	0.00	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	VN	NT	1.03	0.00	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	VH	NT	-1.37	0.00	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	VL	NT	-4.24	0.00	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	VN	NT	-0.88	0.00	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	VH	NT	1.61	0.00	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	VL	NT	-7.49	0.00	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	VN	NT	-1.39	0.00	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	VH	NT	-1.84	0.00	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	VL	NT	-1.05	0.00	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	VN	NT	-2.26	0.00	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	VH	NT	-1.57	0.00	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	VL	NT	-3.44	0.00	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	VN	NT	-5.10	0.00	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	VH	NT	-4.84	0.00	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	VL	NT	-7.32	0.00	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	VN	NT	-7.63	0.00	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	VH	NT	-4.89	0.00	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	VL	NT	-3.16	0.00	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	VN	NT	-4.15	0.00	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	VH	NT	-2.61	0.00	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	VL	NT	-1.50	0.00	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	VN	NT	-3.75	0.00	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	VH	NT	-2.20	0.00	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	VL	NT	0.37	0.00	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	VN	NT	-6.88	0.00	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	VH	NT	2.75	0.00	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	VL	NT	-3.13	0.00	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	VN	NT	3.88	0.00	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	VH	NT	-1.74	0.00	PASS

N38	30	40	DFT-QPSK	L	Outer_Full	VL	NT	2.75	0.00	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	VN	NT	5.46	0.00	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	VH	NT	0.46	0.00	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	VL	NT	4.71	0.00	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	VN	NT	1.29	0.00	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	VH	NT	-1.52	0.00	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	VL	NT	4.19	0.00	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	VN	NT	-1.88	0.00	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	VH	NT	-3.17	0.00	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	VL	NT	-2.66	0.00	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	VN	NT	-4.55	0.00	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	VH	NT	0.43	0.00	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	VL	NT	-4.28	0.00	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	VN	NT	-6.82	0.00	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	VH	NT	-4.99	0.00	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	VL	NT	-6.76	0.00	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	VN	NT	-2.62	0.00	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	VH	NT	-9.37	0.00	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	NV	-30	-1.000000	-0.000388	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	-20	-3.580000	-0.001390	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	-10	-0.350000	-0.000136	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	0	-0.450000	-0.000175	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	10	-0.110000	-0.000043	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	20	1.890000	0.000734	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	30	3.210000	0.001247	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	40	-0.190000	-0.000074	PASS
N38	30	10	DFT-QPSK	L	Outer_Full	NV	50	0.070000	0.000027	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	-30	0.180000	0.000070	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	-20	2.250000	0.000874	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	-10	7.670000	0.002979	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	0	-1.960000	-0.000761	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	10	1.330000	0.000517	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	20	3.920000	0.001522	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	30	-0.120000	-0.000047	PASS

N38	30	10	DFT-16QAM	L	Outer_Full	NV	40	2.860000	0.001111	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	NV	50	1.720000	0.000668	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	-30	-5.260000	-0.002027	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	-20	-2.240000	-0.000863	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	-10	-2.470000	-0.000952	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	0	-5.240000	-0.002019	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	10	-2.850000	-0.001098	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	20	-4.480000	-0.001726	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	30	-4.300000	-0.001657	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	40	-7.100000	-0.002736	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	NV	50	-6.650000	-0.002563	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	-30	-2.620000	-0.001010	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	-20	-4.670000	-0.001800	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	-10	0.170000	0.000066	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	0	-2.870000	-0.001106	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	10	-6.200000	-0.002389	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	20	0.780000	0.000301	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	30	-3.270000	-0.001260	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	40	-0.380000	-0.000146	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	NV	50	-8.980000	-0.003461	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	-30	-11.740000	-0.004489	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	-20	-5.070000	-0.001939	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	-10	-5.290000	-0.002023	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	0	-5.690000	-0.002176	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	10	-7.280000	-0.002784	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	20	-6.680000	-0.002554	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	30	-4.410000	-0.001686	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	40	-2.870000	-0.001098	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	NV	50	-13.890000	-0.005312	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	-30	-11.230000	-0.004294	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	-20	-6.950000	-0.002658	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	-10	-9.200000	-0.003518	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	0	-11.530000	-0.004409	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	10	-10.590000	-0.004050	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	20	-10.140000	-0.003878	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	30	-7.860000	-0.003006	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	40	-11.000000	-0.004207	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	NV	50	-7.500000	-0.002868	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	-30	-2.060000	-0.000799	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	-20	-1.630000	-0.000632	PASS

N38	30	15	DFT-QPSK	L	Outer_Full	NV	-10	-0.950000	-0.000369	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	0	-7.340000	-0.002848	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	10	0.130000	0.000050	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	20	-7.230000	-0.002805	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	30	0.540000	0.000210	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	40	0.100000	0.000039	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	NV	50	0.420000	0.000163	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	-30	-2.680000	-0.001040	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	-20	-6.670000	-0.002588	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	-10	-2.640000	-0.001024	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	0	-6.260000	-0.002429	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	10	-4.030000	-0.001564	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	20	-4.080000	-0.001583	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	30	-10.470000	-0.004062	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	40	-1.880000	-0.000729	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	NV	50	2.390000	0.000927	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	-30	-4.300000	-0.001657	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	-20	-5.610000	-0.002162	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	-10	-0.050000	-0.000019	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	0	-0.320000	-0.000123	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	10	0.550000	0.000212	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	20	-2.160000	-0.000832	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	30	-2.310000	-0.000890	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	40	2.130000	0.000821	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	NV	50	-5.790000	-0.002231	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	-30	-1.620000	-0.000624	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	-20	-4.000000	-0.001541	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	-10	2.710000	0.001044	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	0	-3.040000	-0.001171	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	10	0.350000	0.000135	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	20	-0.760000	-0.000293	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	30	3.570000	0.001376	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	40	1.970000	0.000759	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	NV	50	0.020000	0.000008	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	-30	4.680000	0.001791	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	-20	3.330000	0.001275	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	-10	-2.680000	-0.001026	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	0	3.330000	0.001275	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	10	6.490000	0.002484	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	20	3.890000	0.001489	PASS

N38	30	15	DFT-QPSK	H	Outer_Full	NV	30	6.940000	0.002656	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	40	5.900000	0.002258	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	NV	50	0.420000	0.000161	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	-30	-1.360000	-0.000521	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	-20	-3.430000	-0.001313	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	-10	2.040000	0.000781	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	0	2.200000	0.000842	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	10	-0.220000	-0.000084	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	20	2.980000	0.001141	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	30	-3.820000	-0.001462	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	40	2.970000	0.001137	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	NV	50	4.470000	0.001711	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	-30	-0.290000	-0.000112	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	-20	-1.760000	-0.000682	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	-10	-4.240000	-0.001643	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	0	1.700000	0.000659	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	10	-0.020000	-0.000008	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	20	-0.430000	-0.000167	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	30	0.470000	0.000182	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	40	1.790000	0.000694	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	NV	50	1.670000	0.000647	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	-30	0.880000	0.000341	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	-20	0.870000	0.000337	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	-10	2.800000	0.001085	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	0	0.670000	0.000260	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	10	2.340000	0.000907	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	20	-4.060000	-0.001574	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	30	-0.910000	-0.000353	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	40	0.720000	0.000279	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	NV	50	-1.990000	-0.000771	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	-30	3.280000	0.001264	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	-20	1.920000	0.000740	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	-10	-0.430000	-0.000166	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	0	-5.380000	-0.002073	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	10	-2.760000	-0.001064	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	20	-2.230000	-0.000859	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	30	0.020000	0.000008	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	40	0.530000	0.000204	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	NV	50	-4.090000	-0.001576	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	-30	-6.040000	-0.002328	PASS

N38	30	20	DFT-16QAM	M	Outer_Full	NV	-20	2.490000	0.000960	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	-10	-3.230000	-0.001245	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	0	2.140000	0.000825	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	10	1.160000	0.000447	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	20	0.060000	0.000023	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	30	0.580000	0.000224	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	40	-6.670000	-0.002570	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	NV	50	1.680000	0.000647	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	-30	0.470000	0.000180	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	-20	-4.810000	-0.001843	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	-10	-6.890000	-0.002640	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	0	4.760000	0.001824	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	10	-6.040000	-0.002314	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	20	-0.720000	-0.000276	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	30	-1.450000	-0.000556	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	40	-2.400000	-0.000920	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	NV	50	1.850000	0.000709	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	-30	-4.890000	-0.001874	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	-20	-1.700000	-0.000651	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	-10	-2.890000	-0.001107	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	0	-7.170000	-0.002747	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	10	-1.540000	-0.000590	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	20	-1.040000	-0.000398	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	30	-4.880000	-0.001870	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	40	2.560000	0.000981	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	NV	50	-0.670000	-0.000257	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	-30	-9.940000	-0.003845	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	-20	-7.980000	-0.003087	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	-10	-3.700000	-0.001431	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	0	-6.780000	-0.002623	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	10	-0.800000	-0.000309	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	20	-6.460000	-0.002499	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	30	-3.150000	-0.001219	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	40	-3.090000	-0.001195	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	NV	50	1.590000	0.000615	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	-30	-7.060000	-0.002731	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	-20	-6.030000	-0.002333	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	-10	-5.000000	-0.001934	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	0	-0.230000	-0.000089	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	10	-9.520000	-0.003683	PASS

N38	30	30	DFT-16QAM	L	Outer_Full	NV	20	-2.040000	-0.000789	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	30	-5.150000	-0.001992	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	40	-4.990000	-0.001930	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	NV	50	-3.920000	-0.001516	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	-30	-5.610000	-0.002162	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	-20	-6.770000	-0.002609	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	-10	0.090000	0.000035	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	0	-4.510000	-0.001738	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	10	-0.500000	-0.000193	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	20	-1.410000	-0.000543	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	30	-2.390000	-0.000921	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	40	-5.450000	-0.002100	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	NV	50	-2.330000	-0.000898	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	-30	1.420000	0.000547	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	-20	-1.200000	-0.000462	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	-10	-5.040000	-0.001942	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	0	0.830000	0.000320	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	10	-2.600000	-0.001002	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	20	-3.950000	-0.001522	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	30	-7.690000	-0.002963	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	40	0.360000	0.000139	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	NV	50	-3.610000	-0.001391	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	-30	-2.070000	-0.000795	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	-20	1.210000	0.000464	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	-10	-1.210000	-0.000464	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	0	0.440000	0.000169	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	10	-3.040000	-0.001167	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	20	4.590000	0.001762	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	30	-2.550000	-0.000979	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	40	-1.970000	-0.000756	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	NV	50	4.370000	0.001678	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	-30	-3.860000	-0.001482	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	-20	-0.880000	-0.000338	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	-10	1.790000	0.000687	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	0	-3.100000	-0.001190	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	10	2.300000	0.000883	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	20	-1.190000	-0.000457	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	30	2.960000	0.001136	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	40	0.160000	0.000061	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	NV	50	-0.390000	-0.000150	PASS

N38	30	40	DFT-QPSK	L	Outer_Full	NV	-30	0.500000	0.000193	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	-20	-1.700000	-0.000656	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	-10	0.570000	0.000220	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	0	-1.510000	-0.000583	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	10	-0.490000	-0.000189	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	20	0.430000	0.000166	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	30	1.880000	0.000726	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	40	5.480000	0.002116	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	NV	50	-0.490000	-0.000189	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	-30	2.840000	0.001097	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	-20	4.380000	0.001691	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	-10	-3.460000	-0.001336	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	0	5.510000	0.002127	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	10	-0.330000	-0.000127	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	20	3.510000	0.001355	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	30	-2.470000	-0.000954	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	40	3.570000	0.001378	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	NV	50	0.280000	0.000108	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	-30	-4.910000	-0.001892	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	-20	-0.190000	-0.000073	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	-10	-2.510000	-0.000967	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	0	1.470000	0.000566	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	10	-2.280000	-0.000879	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	20	-2.930000	-0.001129	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	30	-2.670000	-0.001029	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	40	-5.010000	-0.001931	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	NV	50	-4.800000	-0.001850	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	-30	-1.390000	-0.000536	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	-20	-1.400000	-0.000539	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	-10	-3.110000	-0.001198	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	0	2.620000	0.001010	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	10	-0.300000	-0.000116	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	20	-3.090000	-0.001191	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	30	-2.210000	-0.000852	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	40	-4.120000	-0.001588	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	NV	50	-3.160000	-0.001218	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	-30	-9.060000	-0.003485	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	-20	-9.700000	-0.003731	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	-10	-8.880000	-0.003415	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	0	-6.600000	-0.002538	PASS

N38	30	40	DFT-QPSK	H	Outer_Full	NV	10	-10.000000	-0.003846	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	20	-6.350000	-0.002442	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	30	-7.210000	-0.002773	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	40	-4.410000	-0.001696	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	NV	50	-2.880000	-0.001108	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	-30	-7.290000	-0.002804	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	-20	-6.430000	-0.002473	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	-10	-6.890000	-0.002650	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	0	-3.760000	-0.001446	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	10	-4.870000	-0.001873	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	20	-7.360000	-0.002831	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	30	-2.930000	-0.001127	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	40	-6.790000	-0.002612	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	NV	50	-5.470000	-0.002104	PASS