

Appendix D: Frequency Stability

Test Result

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	75000	14.478764	20	PASS
			LV	NT	90000	17.374517	20	PASS
			HV	NT	90000	17.374517	20	PASS
	Ant2	5180	NV	NT	75000	14.478764	20	PASS
			LV	NT	90000	17.374517	20	PASS
			HV	NT	75000	14.478764	20	PASS
	Ant1	5200	NV	NT	75000	14.423077	20	PASS
			LV	NT	90000	17.307692	20	PASS
			HV	NT	90000	17.307692	20	PASS
	Ant2	5200	NV	NT	90000	17.307692	20	PASS
			LV	NT	90000	17.307692	20	PASS
			HV	NT	90000	17.307692	20	PASS
	Ant1	5240	NV	NT	90000	17.175573	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
	Ant2	5240	NV	NT	90000	17.175573	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
	Ant1	5260	NV	NT	90000	17.110266	20	PASS
			LV	NT	90000	17.110266	20	PASS
			HV	NT	75000	14.258555	20	PASS
	Ant2	5260	NV	NT	90000	17.110266	20	PASS
			LV	NT	75000	14.258555	20	PASS
			HV	NT	90000	17.110266	20	PASS
	Ant1	5280	NV	NT	90000	17.045455	20	PASS
			LV	NT	90000	17.045455	20	PASS
			HV	NT	90000	17.045455	20	PASS
	Ant2	5280	NV	NT	90000	17.045455	20	PASS
			LV	NT	105000	19.886364	20	PASS
			HV	NT	90000	17.045455	20	PASS
Ant1	5320	NV	NT	90000	16.917293	20	PASS	
		LV	NT	60000	11.278195	20	PASS	
		HV	NT	90000	16.917293	20	PASS	
Ant2	5320	NV	NT	105000	19.736842	20	PASS	
		LV	NT	90000	16.917293	20	PASS	
		HV	NT	90000	16.917293	20	PASS	
Ant1	5500	NV	NT	105000	19.090909	20	PASS	
		LV	NT	90000	16.363636	20	PASS	

	Ant2	5500	HV	NT	105000	19.090909	20	PASS	
			NV	NT	90000	16.363636	20	PASS	
			LV	NT	105000	19.090909	20	PASS	
	Ant1	5580	HV	NT	105000	19.090909	20	PASS	
			NV	NT	90000	16.129032	20	PASS	
			LV	NT	105000	18.817204	20	PASS	
	Ant2	5580	HV	NT	105000	18.817204	20	PASS	
			NV	NT	105000	18.817204	20	PASS	
			LV	NT	90000	16.129032	20	PASS	
	Ant1	5700	HV	NT	105000	18.817204	20	PASS	
			NV	NT	105000	18.421053	20	PASS	
			LV	NT	105000	18.421053	20	PASS	
	Ant2	5700	HV	NT	105000	18.421053	20	PASS	
			NV	NT	90000	15.789474	20	PASS	
			LV	NT	90000	15.789474	20	PASS	
	Ant1	5745	HV	NT	105000	18.421053	20	PASS	
			NV	NT	90000	15.665796	20	PASS	
			LV	NT	105000	18.276762	20	PASS	
	Ant2	5745	HV	NT	90000	15.665796	20	PASS	
			NV	NT	105000	18.276762	20	PASS	
			LV	NT	90000	15.665796	20	PASS	
	Ant1	5785	HV	NT	105000	18.276762	20	PASS	
			NV	NT	90000	15.557476	20	PASS	
			LV	NT	105000	18.150389	20	PASS	
	Ant2	5785	HV	NT	105000	18.150389	20	PASS	
			NV	NT	105000	18.150389	20	PASS	
			LV	NT	105000	18.150389	20	PASS	
	Ant1	5825	HV	NT	90000	15.557476	20	PASS	
			NV	NT	105000	18.025751	20	PASS	
			LV	NT	105000	18.025751	20	PASS	
	Ant2	5825	HV	NT	90000	15.450644	20	PASS	
			NV	NT	105000	18.025751	20	PASS	
			LV	NT	105000	18.025751	20	PASS	
	11N20 SISO	Ant1	5180	HV	NT	105000	18.025751	20	PASS
				NV	NT	90000	17.374517	20	PASS
				LV	NT	90000	17.374517	20	PASS
Ant2		5180	HV	NT	90000	17.374517	20	PASS	
			NV	NT	90000	17.374517	20	PASS	
			LV	NT	90000	17.374517	20	PASS	
Ant1		5200	HV	NT	90000	17.374517	20	PASS	
			NV	NT	90000	17.307692	20	PASS	
			LV	NT	75000	14.423077	20	PASS	
Ant2		5200	HV	NT	90000	17.307692	20	PASS	
			NV	NT	90000	17.307692	20	PASS	
				LV	NT	90000	17.307692	20	PASS

			HV	NT	90000	17.307692	20	PASS
Ant1	5240		NV	NT	75000	14.312977	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
Ant2	5240		NV	NT	90000	17.175573	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
Ant1	5260		NV	NT	75000	14.258555	20	PASS
			LV	NT	75000	14.258555	20	PASS
			HV	NT	105000	19.961977	20	PASS
Ant2	5260		NV	NT	90000	17.110266	20	PASS
			LV	NT	105000	19.961977	20	PASS
			HV	NT	105000	19.961977	20	PASS
Ant1	5280		NV	NT	90000	17.045455	20	PASS
			LV	NT	90000	17.045455	20	PASS
			HV	NT	105000	19.886364	20	PASS
Ant2	5280		NV	NT	90000	17.045455	20	PASS
			LV	NT	90000	17.045455	20	PASS
			HV	NT	75000	14.204545	20	PASS
Ant1	5320		NV	NT	90000	16.917293	20	PASS
			LV	NT	90000	16.917293	20	PASS
			HV	NT	105000	19.736842	20	PASS
Ant2	5320		NV	NT	90000	16.917293	20	PASS
			LV	NT	90000	16.917293	20	PASS
			HV	NT	90000	16.917293	20	PASS
Ant1	5500		NV	NT	105000	19.090909	20	PASS
			LV	NT	105000	19.090909	20	PASS
			HV	NT	90000	16.363636	20	PASS
Ant2	5500		NV	NT	75000	13.636364	20	PASS
			LV	NT	90000	16.363636	20	PASS
			HV	NT	90000	16.363636	20	PASS
Ant1	5580		NV	NT	90000	17.175573	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	105000	18.817204	20	PASS
Ant2	5580		NV	NT	105000	18.817204	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
Ant1	5700		NV	NT	105000	18.421053	20	PASS
			LV	NT	105000	18.421053	20	PASS
			HV	NT	105000	18.421053	20	PASS
Ant2	5700		NV	NT	105000	18.421053	20	PASS
			LV	NT	105000	18.421053	20	PASS
			HV	NT	105000	18.421053	20	PASS
Ant1	5745		NV	NT	105000	18.276762	20	PASS
			LV	NT	90000	17.175573	20	PASS

	Ant2	5745	HV	NT	90000	17.175573	20	PASS
			NV	NT	105000	18.276762	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
	Ant1	5785	NV	NT	90000	17.175573	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
	Ant2	5785	NV	NT	105000	18.150389	20	PASS
			LV	NT	105000	18.150389	20	PASS
			HV	NT	105000	18.150389	20	PASS
	Ant1	5825	NV	NT	90000	15.450644	20	PASS
			LV	NT	105000	18.025751	20	PASS
HV			NT	90000	15.450644	20	PASS	
Ant2	5825	NV	NT	105000	18.025751	20	PASS	
		LV	NT	105000	18.025751	20	PASS	
		HV	NT	90000	15.450644	20	PASS	
11N40 SISO	Ant1	5190	NV	NT	90000	17.34104	20	PASS
			LV	NT	90000	17.34104	20	PASS
			HV	NT	90000	17.34104	20	PASS
	Ant2	5190	NV	NT	60000	11.560694	20	PASS
			LV	NT	90000	17.34104	20	PASS
			HV	NT	90000	17.34104	20	PASS
	Ant1	5230	NV	NT	90000	17.208413	20	PASS
			LV	NT	90000	17.208413	20	PASS
			HV	NT	90000	17.208413	20	PASS
	Ant2	5230	NV	NT	90000	17.208413	20	PASS
			LV	NT	90000	17.208413	20	PASS
			HV	NT	90000	17.208413	20	PASS
	Ant1	5270	NV	NT	90000	17.077799	20	PASS
			LV	NT	90000	17.077799	20	PASS
			HV	NT	90000	17.077799	20	PASS
	Ant2	5270	NV	NT	90000	17.077799	20	PASS
			LV	NT	90000	17.077799	20	PASS
			HV	NT	90000	17.077799	20	PASS
	Ant1	5310	NV	NT	60000	11.299435	20	PASS
			LV	NT	60000	11.299435	20	PASS
			HV	NT	90000	16.949153	20	PASS
	Ant2	5310	NV	NT	60000	11.299435	20	PASS
			LV	NT	90000	16.949153	20	PASS
			HV	NT	90000	16.949153	20	PASS
Ant1	5510	NV	NT	90000	16.333938	20	PASS	
		LV	NT	90000	16.333938	20	PASS	
		HV	NT	90000	16.333938	20	PASS	
Ant2	5510	NV	NT	90000	16.333938	20	PASS	
		LV	NT	90000	16.333938	20	PASS	

	Ant1	5550	HV	NT	90000	16.333938	20	PASS
			NV	NT	90000	16.216216	20	PASS
			LV	NT	90000	16.216216	20	PASS
	Ant2	5550	HV	NT	90000	16.216216	20	PASS
			NV	NT	90000	16.216216	20	PASS
			LV	NT	90000	16.216216	20	PASS
	Ant1	5670	NV	NT	90000	17.175573	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	15.873016	20	PASS
	Ant2	5670	NV	NT	90000	15.873016	20	PASS
			LV	NT	60000	10.582011	20	PASS
			HV	NT	90000	15.873016	20	PASS
	Ant1	5755	NV	NT	90000	15.638575	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
	Ant2	5755	NV	NT	90000	15.638575	20	PASS
			LV	NT	90000	15.638575	20	PASS
			HV	NT	90000	15.638575	20	PASS
	Ant1	5795	NV	NT	90000	15.53063	20	PASS
			LV	NT	60000	10.353753	20	PASS
			HV	NT	90000	15.53063	20	PASS
	Ant2	5795	NV	NT	90000	15.53063	20	PASS
			LV	NT	90000	15.53063	20	PASS
			HV	NT	90000	15.53063	20	PASS
11AC80 SISO	Ant1	5210	NV	NT	80000	15.355086	20	PASS
			LV	NT	80000	15.355086	20	PASS
			HV	NT	80000	15.355086	20	PASS
	Ant2	5210	NV	NT	80000	15.355086	20	PASS
			LV	NT	80000	15.355086	20	PASS
			HV	NT	80000	15.355086	20	PASS
	Ant1	5290	NV	NT	80000	15.122873	20	PASS
			LV	NT	80000	15.122873	20	PASS
			HV	NT	80000	15.122873	20	PASS
	Ant2	5290	NV	NT	80000	15.122873	20	PASS
			LV	NT	80000	15.122873	20	PASS
			HV	NT	80000	15.122873	20	PASS
	Ant1	5530	NV	NT	80000	14.466546	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	90000	17.175573	20	PASS
	Ant2	5530	NV	NT	90000	17.175573	20	PASS
			LV	NT	90000	17.175573	20	PASS
			HV	NT	80000	14.466546	20	PASS
Ant1	5610	NV	NT	80000	14.26025	20	PASS	
		LV	NT	90000	17.175573	20	PASS	

	Ant2	5610	HV	NT	90000	17.175573	20	PASS
			NV	NT	80000	14.26025	20	PASS
			LV	NT	80000	14.26025	20	PASS
			HV	NT	80000	14.26025	20	PASS
	Ant1	5775	NV	NT	80000	13.852814	20	PASS
			LV	NT	80000	13.852814	20	PASS
			HV	NT	80000	13.852814	20	PASS
	Ant2	5775	NV	NT	80000	13.852814	20	PASS
			LV	NT	80000	13.852814	20	PASS
			HV	NT	80000	13.852814	20	PASS

Temperature								
Test	Antenna	Channel	Voltage	Temperature	Deviation	Deviation	Limit	Verdict
Mode			[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	
11A	Ant1	5180	NV	-30	90000	17.37452	20	PASS
			NV	-20	90000	17.37452	20	PASS
			NV	-10	90000	17.37452	20	PASS
			NV	0	90000	17.37452	20	PASS
			NV	10	75000	14.47876	20	PASS
			NV	20	75000	14.47876	20	PASS
			NV	30	90000	17.37452	20	PASS
			NV	40	75000	14.47876	20	PASS
			NV	50	90000	17.37452	20	PASS
	Ant2	5180	NV	-30	90000	17.37452	20	PASS
			NV	-20	90000	17.37452	20	PASS
			NV	-10	90000	17.37452	20	PASS
			NV	0	90000	17.37452	20	PASS
			NV	10	90000	17.37452	20	PASS
			NV	20	90000	17.37452	20	PASS
			NV	30	90000	17.37452	20	PASS
			NV	40	90000	17.37452	20	PASS
			NV	50	90000	17.37452	20	PASS
	Ant1	5200	NV	-30	90000	17.30769	20	PASS
			NV	-20	90000	17.30769	20	PASS
			NV	-10	90000	17.30769	20	PASS
			NV	0	90000	17.30769	20	PASS
			NV	10	90000	17.30769	20	PASS
			NV	20	90000	17.30769	20	PASS
			NV	30	90000	17.30769	20	PASS
			NV	40	75000	14.42308	20	PASS
			NV	50	75000	14.42308	20	PASS
	Ant2	5200	NV	-30	90000	17.30769	20	PASS

			NV	-20	90000	17.30769	20	PASS
			NV	-10	90000	17.30769	20	PASS
			NV	0	90000	17.30769	20	PASS
			NV	10	75000	14.42308	20	PASS
			NV	20	75000	14.42308	20	PASS
			NV	30	90000	17.30769	20	PASS
			NV	40	75000	14.42308	20	PASS
			NV	50	75000	14.42308	20	PASS
	Ant1	5240	NV	-30	75000	14.31298	20	PASS
			NV	-20	75000	14.31298	20	PASS
			NV	-10	75000	14.31298	20	PASS
			NV	0	75000	14.31298	20	PASS
			NV	10	90000	17.17557	20	PASS
			NV	20	90000	17.17557	20	PASS
			NV	30	90000	17.17557	20	PASS
			NV	40	75000	14.31298	20	PASS
	Ant2	5240	NV	-30	90000	17.17557	20	PASS
			NV	-20	90000	17.17557	20	PASS
			NV	-10	90000	17.17557	20	PASS
			NV	0	90000	17.17557	20	PASS
			NV	10	90000	17.17557	20	PASS
			NV	20	90000	17.17557	20	PASS
			NV	30	90000	17.17557	20	PASS
			NV	40	90000	17.17557	20	PASS
	Ant1	5260	NV	-30	90000	17.11027	20	PASS
			NV	-20	90000	17.11027	20	PASS
			NV	-10	90000	17.11027	20	PASS
			NV	0	90000	17.11027	20	PASS
			NV	10	90000	17.11027	20	PASS
			NV	20	75000	14.25856	20	PASS
			NV	30	60000	11.40684	20	PASS
			NV	40	90000	17.11027	20	PASS
Ant2	5260	NV	-30	105000	19.96198	20	PASS	
		NV	-20	105000	19.96198	20	PASS	
		NV	-10	105000	19.96198	20	PASS	
		NV	0	105000	19.96198	20	PASS	
		NV	10	90000	17.11027	20	PASS	
		NV	20	75000	14.25856	20	PASS	
		NV	30	90000	17.11027	20	PASS	
		NV	40	90000	17.11027	20	PASS	

	Ant1	5280	NV	50	105000	19.96198	20	PASS
			NV	-30	90000	17.04546	20	PASS
			NV	-20	90000	17.04546	20	PASS
			NV	-10	90000	17.04546	20	PASS
			NV	0	90000	17.04546	20	PASS
			NV	10	90000	17.04546	20	PASS
			NV	20	90000	17.04546	20	PASS
			NV	30	90000	17.04546	20	PASS
			NV	40	75000	14.20455	20	PASS
			NV	50	90000	17.04546	20	PASS
	Ant2	5280	NV	-30	90000	17.04546	20	PASS
			NV	-20	90000	17.04546	20	PASS
			NV	-10	90000	17.04546	20	PASS
			NV	0	90000	17.04546	20	PASS
			NV	10	90000	17.04546	20	PASS
			NV	20	75000	14.20455	20	PASS
			NV	30	75000	14.20455	20	PASS
			NV	40	90000	17.04546	20	PASS
			NV	50	90000	17.04546	20	PASS
	Ant1	5320	NV	-30	75000	14.09774	20	PASS
			NV	-20	75000	14.09774	20	PASS
			NV	-10	75000	14.09774	20	PASS
			NV	0	75000	14.09774	20	PASS
			NV	10	75000	14.09774	20	PASS
			NV	20	60000	11.2782	20	PASS
			NV	30	90000	16.91729	20	PASS
			NV	40	90000	16.91729	20	PASS
			NV	50	90000	16.91729	20	PASS
	Ant2	5320	NV	-30	90000	16.91729	20	PASS
			NV	-20	90000	16.91729	20	PASS
			NV	-10	90000	16.91729	20	PASS
			NV	0	90000	16.91729	20	PASS
			NV	10	90000	16.91729	20	PASS
			NV	20	90000	16.91729	20	PASS
			NV	30	90000	16.91729	20	PASS
			NV	40	75000	14.09774	20	PASS
			NV	50	90000	16.91729	20	PASS
	Ant1	5500	NV	-30	105000	19.09091	20	PASS
			NV	-20	105000	19.09091	20	PASS
			NV	-10	105000	19.09091	20	PASS
			NV	0	105000	19.09091	20	PASS
			NV	10	75000	13.63636	20	PASS
NV			20	105000	19.09091	20	PASS	

			NV	30	105000	19.09091	20	PASS
			NV	40	90000	16.36364	20	PASS
			NV	50	90000	16.36364	20	PASS
	Ant2	5500	NV	-30	90000	16.36364	20	PASS
			NV	-20	90000	16.36364	20	PASS
			NV	-10	90000	16.36364	20	PASS
			NV	0	90000	16.36364	20	PASS
			NV	10	105000	19.09091	20	PASS
			NV	20	90000	16.36364	20	PASS
			NV	30	105000	19.09091	20	PASS
			NV	40	105000	19.09091	20	PASS
			NV	50	75000	13.63636	20	PASS
	Ant1	5580	NV	-30	90000	16.12903	20	PASS
			NV	-20	90000	16.12903	20	PASS
			NV	-10	90000	16.12903	20	PASS
			NV	0	90000	16.12903	20	PASS
			NV	10	105000	18.8172	20	PASS
			NV	20	105000	18.8172	20	PASS
			NV	30	105000	18.8172	20	PASS
			NV	40	90000	16.12903	20	PASS
			NV	50	105000	18.8172	20	PASS
	Ant2	5580	NV	-30	90000	16.12903	20	PASS
			NV	-20	90000	16.12903	20	PASS
			NV	-10	90000	16.12903	20	PASS
			NV	0	90000	16.12903	20	PASS
			NV	10	75000	13.44086	20	PASS
			NV	20	105000	18.8172	20	PASS
			NV	30	105000	18.8172	20	PASS
			NV	40	105000	18.8172	20	PASS
			NV	50	105000	18.8172	20	PASS
	Ant1	5700	NV	-30	105000	18.42105	20	PASS
			NV	-20	105000	18.42105	20	PASS
			NV	-10	105000	18.42105	20	PASS
NV			0	105000	18.42105	20	PASS	
NV			10	105000	18.42105	20	PASS	
NV			20	105000	18.42105	20	PASS	
NV			30	105000	18.42105	20	PASS	
NV			40	105000	18.42105	20	PASS	
NV			50	90000	15.78947	20	PASS	
Ant2	5700	NV	-30	75000	13.1579	20	PASS	
		NV	-20	75000	13.1579	20	PASS	
		NV	-10	75000	13.1579	20	PASS	
		NV	0	75000	13.1579	20	PASS	

			NV	10	105000	18.42105	20	PASS
			NV	20	90000	15.78947	20	PASS
			NV	30	75000	13.1579	20	PASS
			NV	40	90000	15.78947	20	PASS
			NV	50	90000	15.78947	20	PASS
	Ant1	5745	NV	-30	105000	18.27676	20	PASS
			NV	-20	105000	18.27676	20	PASS
			NV	-10	105000	18.27676	20	PASS
			NV	0	105000	18.27676	20	PASS
			NV	10	90000	15.6658	20	PASS
			NV	20	105000	18.27676	20	PASS
			NV	30	105000	18.27676	20	PASS
			NV	40	105000	18.27676	20	PASS
			NV	50	105000	18.27676	20	PASS
	Ant2	5745	NV	-30	75000	13.05483	20	PASS
			NV	-20	75000	13.05483	20	PASS
			NV	-10	75000	13.05483	20	PASS
			NV	0	75000	13.05483	20	PASS
			NV	10	90000	15.6658	20	PASS
			NV	20	105000	18.27676	20	PASS
			NV	30	90000	15.6658	20	PASS
			NV	40	105000	18.27676	20	PASS
			NV	50	90000	15.6658	20	PASS
	Ant1	5785	NV	-30	90000	15.55748	20	PASS
			NV	-20	90000	15.55748	20	PASS
			NV	-10	90000	15.55748	20	PASS
			NV	0	90000	15.55748	20	PASS
			NV	10	105000	18.15039	20	PASS
			NV	20	105000	18.15039	20	PASS
			NV	30	105000	18.15039	20	PASS
NV			40	105000	18.15039	20	PASS	
NV			50	90000	15.55748	20	PASS	
Ant2	5785	NV	-30	105000	18.15039	20	PASS	
		NV	-20	105000	18.15039	20	PASS	
		NV	-10	105000	18.15039	20	PASS	
		NV	0	105000	18.15039	20	PASS	
		NV	10	105000	18.15039	20	PASS	
		NV	20	90000	15.55748	20	PASS	
		NV	30	105000	18.15039	20	PASS	
		NV	40	105000	18.15039	20	PASS	
		NV	50	105000	18.15039	20	PASS	
Ant1	5825	NV	-30	90000	15.45064	20	PASS	
		NV	-20	90000	15.45064	20	PASS	

			NV	-10	90000	15.45064	20	PASS			
			NV	0	90000	15.45064	20	PASS			
			NV	10	105000	18.02575	20	PASS			
			NV	20	90000	15.45064	20	PASS			
			NV	30	75000	12.87554	20	PASS			
			NV	40	90000	15.45064	20	PASS			
			NV	50	105000	18.02575	20	PASS			
	Ant2	5825	NV	-30	75000	12.87554	20	PASS			
			NV	-20	75000	12.87554	20	PASS			
			NV	-10	75000	12.87554	20	PASS			
			NV	0	75000	12.87554	20	PASS			
			NV	10	105000	18.02575	20	PASS			
			NV	20	105000	18.02575	20	PASS			
			NV	30	105000	18.02575	20	PASS			
			NV	40	105000	18.02575	20	PASS			
			NV	50	105000	18.02575	20	PASS			
			11N20 SISO	Ant1	5180	NV	-30	90000	17.37452	20	PASS
						NV	-20	90000	17.37452	20	PASS
NV	-10	90000				17.37452	20	PASS			
NV	0	90000				17.37452	20	PASS			
NV	10	90000				17.37452	20	PASS			
NV	20	90000				17.37452	20	PASS			
NV	30	90000				17.37452	20	PASS			
NV	40	75000				14.47876	20	PASS			
NV	50	90000				17.37452	20	PASS			
Ant2	5180	NV		-30	75000	14.47876	20	PASS			
		NV		-20	75000	14.47876	20	PASS			
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		NV		0	75000	14.47876	20	PASS			
		NV		10	90000	17.37452	20	PASS			
		NV		20	90000	17.37452	20	PASS			
		NV		30	90000	17.37452	20	PASS			
		NV		40	90000	17.37452	20	PASS			
		NV		50	90000	17.37452	20	PASS			
Ant1	5200	NV	-30	90000	17.30769	20	PASS				
		NV	-20	90000	17.30769	20	PASS				
		NV	-10	90000	17.30769	20	PASS				
		NV	0	90000	17.30769	20	PASS				
		NV	10	90000	17.30769	20	PASS				
		NV	20	90000	17.30769	20	PASS				
		NV	30	90000	17.30769	20	PASS				
		NV	40	90000	17.30769	20	PASS				
		NV	50	90000	17.30769	20	PASS				

	Ant2	5200	NV	-30	75000	14.42308	20	PASS
			NV	-20	75000	14.42308	20	PASS
			NV	-10	75000	14.42308	20	PASS
			NV	0	75000	14.42308	20	PASS
			NV	10	90000	17.30769	20	PASS
			NV	20	90000	17.30769	20	PASS
			NV	30	75000	14.42308	20	PASS
			NV	40	90000	17.30769	20	PASS
			NV	50	90000	17.30769	20	PASS
	Ant1	5240	NV	-30	90000	17.17557	20	PASS
			NV	-20	90000	17.17557	20	PASS
			NV	-10	90000	17.17557	20	PASS
			NV	0	90000	17.17557	20	PASS
			NV	10	90000	17.17557	20	PASS
			NV	20	90000	17.17557	20	PASS
			NV	30	90000	17.17557	20	PASS
			NV	40	90000	17.17557	20	PASS
			NV	50	90000	17.17557	20	PASS
	Ant2	5240	NV	-30	90000	17.17557	20	PASS
			NV	-20	90000	17.17557	20	PASS
			NV	-10	90000	17.17557	20	PASS
			NV	0	90000	17.17557	20	PASS
			NV	10	90000	17.17557	20	PASS
			NV	20	90000	17.17557	20	PASS
			NV	30	90000	17.17557	20	PASS
			NV	40	90000	17.17557	20	PASS
			NV	50	90000	17.17557	20	PASS
	Ant1	5260	NV	-30	105000	19.96198	20	PASS
			NV	-20	105000	19.96198	20	PASS
			NV	-10	105000	19.96198	20	PASS
			NV	0	105000	19.96198	20	PASS
			NV	10	75000	14.25856	20	PASS
			NV	20	105000	19.96198	20	PASS
			NV	30	105000	19.96198	20	PASS
			NV	40	105000	19.96198	20	PASS
			NV	50	75000	14.25856	20	PASS
Ant2	5260	NV	-30	90000	17.11027	20	PASS	
		NV	-20	90000	17.11027	20	PASS	
		NV	-10	90000	17.11027	20	PASS	
		NV	0	90000	17.11027	20	PASS	
		NV	10	90000	17.11027	20	PASS	
		NV	20	90000	17.11027	20	PASS	
		NV	30	90000	17.11027	20	PASS	

			NV	40	105000	19.96198	20	PASS
			NV	50	105000	19.96198	20	PASS
	Ant1	5280	NV	-30	105000	19.88636	20	PASS
			NV	-20	105000	19.88636	20	PASS
			NV	-10	105000	19.88636	20	PASS
			NV	0	105000	19.88636	20	PASS
			NV	10	90000	17.04546	20	PASS
			NV	20	75000	14.20455	20	PASS
			NV	30	105000	19.88636	20	PASS
			NV	40	105000	19.88636	20	PASS
			NV	50	90000	17.04546	20	PASS
			Ant2	5280	NV	-30	90000	17.04546
	NV	-20			90000	17.04546	20	PASS
	NV	-10			90000	17.04546	20	PASS
	NV	0			90000	17.04546	20	PASS
	NV	10			90000	17.04546	20	PASS
	NV	20			90000	17.04546	20	PASS
	NV	30			90000	17.04546	20	PASS
	NV	40			105000	19.88636	20	PASS
	Ant1	5320	NV	-30	105000	19.73684	20	PASS
			NV	-20	105000	19.73684	20	PASS
			NV	-10	105000	19.73684	20	PASS
			NV	0	105000	19.73684	20	PASS
			NV	10	105000	19.73684	20	PASS
			NV	20	90000	16.91729	20	PASS
			NV	30	90000	16.91729	20	PASS
			NV	40	105000	19.73684	20	PASS
			NV	50	90000	16.91729	20	PASS
			Ant2	5320	NV	-30	90000	16.91729
	NV	-20			90000	16.91729	20	PASS
	NV	-10			90000	16.91729	20	PASS
	NV	0			90000	16.91729	20	PASS
	NV	10			75000	14.09774	20	PASS
	NV	20			90000	16.91729	20	PASS
	NV	30			105000	19.73684	20	PASS
	NV	40			90000	16.91729	20	PASS
	NV	50			105000	19.73684	20	PASS
	Ant1	5500	NV	-30	105000	19.09091	20	PASS
			NV	-20	105000	19.09091	20	PASS
			NV	-10	105000	19.09091	20	PASS
NV			0	105000	19.09091	20	PASS	
NV			10	75000	13.63636	20	PASS	

			NV	20	105000	19.09091	20	PASS
			NV	30	90000	16.36364	20	PASS
			NV	40	90000	16.36364	20	PASS
			NV	50	90000	16.36364	20	PASS
	Ant2	5500	NV	-30	90000	16.36364	20	PASS
			NV	-20	90000	16.36364	20	PASS
			NV	-10	90000	16.36364	20	PASS
			NV	0	90000	16.36364	20	PASS
			NV	10	90000	16.36364	20	PASS
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			NV	40	90000	16.36364	20	PASS
			NV	50	75000	13.63636	20	PASS
	Ant1	5580	NV	-30	105000	18.8172	20	PASS
			NV	-20	105000	18.8172	20	PASS
			NV	-10	105000	18.8172	20	PASS
			NV	0	105000	18.8172	20	PASS
			NV	10	105000	18.8172	20	PASS
			NV	20	105000	18.8172	20	PASS
			NV	30	105000	18.8172	20	PASS
			NV	40	105000	18.8172	20	PASS
			NV	50	105000	18.8172	20	PASS
	Ant2	5580	NV	-30	90000	16.12903	20	PASS
			NV	-20	90000	16.12903	20	PASS
			NV	-10	90000	16.12903	20	PASS
			NV	0	90000	16.12903	20	PASS
			NV	10	105000	18.8172	20	PASS
			NV	20	105000	18.8172	20	PASS
			NV	30	105000	18.8172	20	PASS
			NV	40	105000	18.8172	20	PASS
			NV	50	75000	13.44086	20	PASS
	Ant1	5700	NV	-30	105000	18.42105	20	PASS
			NV	-20	105000	18.42105	20	PASS
			NV	-10	105000	18.42105	20	PASS
			NV	0	105000	18.42105	20	PASS
			NV	10	105000	18.42105	20	PASS
NV			20	105000	18.42105	20	PASS	
NV			30	105000	18.42105	20	PASS	
NV			40	105000	18.42105	20	PASS	
NV			50	105000	18.42105	20	PASS	
Ant2	5700	NV	-30	105000	18.42105	20	PASS	
		NV	-20	105000	18.42105	20	PASS	
		NV	-10	105000	18.42105	20	PASS	

			NV	0	105000	18.42105	20	PASS
			NV	10	90000	15.78947	20	PASS
			NV	20	105000	18.42105	20	PASS
			NV	30	105000	18.42105	20	PASS
			NV	40	105000	18.42105	20	PASS
			NV	50	105000	18.42105	20	PASS
	Ant1	5745	NV	-30	90000	15.6658	20	PASS
			NV	-20	90000	15.6658	20	PASS
			NV	-10	90000	15.6658	20	PASS
			NV	0	90000	15.6658	20	PASS
			NV	10	105000	18.27676	20	PASS
			NV	20	90000	15.6658	20	PASS
			NV	30	90000	15.6658	20	PASS
			NV	40	105000	18.27676	20	PASS
			NV	50	105000	18.27676	20	PASS
	Ant2	5745	NV	-30	105000	18.27676	20	PASS
			NV	-20	105000	18.27676	20	PASS
			NV	-10	105000	18.27676	20	PASS
			NV	0	105000	18.27676	20	PASS
			NV	10	105000	18.27676	20	PASS
			NV	20	105000	18.27676	20	PASS
			NV	30	90000	15.6658	20	PASS
			NV	40	90000	15.6658	20	PASS
			NV	50	105000	18.27676	20	PASS
	Ant1	5785	NV	-30	105000	18.15039	20	PASS
			NV	-20	105000	18.15039	20	PASS
			NV	-10	105000	18.15039	20	PASS
			NV	0	105000	18.15039	20	PASS
			NV	10	105000	18.15039	20	PASS
			NV	20	105000	18.15039	20	PASS
			NV	30	105000	18.15039	20	PASS
			NV	40	105000	18.15039	20	PASS
			NV	50	105000	18.15039	20	PASS
	Ant2	5785	NV	-30	105000	18.15039	20	PASS
			NV	-20	105000	18.15039	20	PASS
			NV	-10	105000	18.15039	20	PASS
			NV	0	105000	18.15039	20	PASS
			NV	10	105000	18.15039	20	PASS
			NV	20	105000	18.15039	20	PASS
			NV	30	105000	18.15039	20	PASS
NV			40	105000	18.15039	20	PASS	
NV			50	105000	18.15039	20	PASS	
Ant1	5825	NV	-30	105000	18.02575	20	PASS	

			NV	-20	105000	18.02575	20	PASS
			NV	-10	105000	18.02575	20	PASS
			NV	0	105000	18.02575	20	PASS
			NV	10	105000	18.02575	20	PASS
			NV	20	105000	18.02575	20	PASS
			NV	30	105000	18.02575	20	PASS
			NV	40	105000	18.02575	20	PASS
			NV	50	105000	18.02575	20	PASS
	Ant2	5825	NV	-30	105000	18.02575	20	PASS
			NV	-20	105000	18.02575	20	PASS
			NV	-10	105000	18.02575	20	PASS
			NV	0	105000	18.02575	20	PASS
			NV	10	105000	18.02575	20	PASS
			NV	20	105000	18.02575	20	PASS
			NV	30	105000	18.02575	20	PASS
			NV	40	105000	18.02575	20	PASS
			NV	50	105000	18.02575	20	PASS
			11N40 SISO	Ant1	5190	NV	-30	90000
NV	-20	90000				17.34104	20	PASS
NV	-10	90000				17.34104	20	PASS
NV	0	90000				17.34104	20	PASS
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NV	30	90000				17.34104	20	PASS
NV	40	90000				17.34104	20	PASS
NV	50	90000				17.34104	20	PASS
Ant2	5190	NV		-30	90000	17.34104	20	PASS
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		NV		-10	90000	17.34104	20	PASS
		NV		0	90000	17.34104	20	PASS
		NV		10	90000	17.34104	20	PASS
		NV		20	90000	17.34104	20	PASS
		NV		30	90000	17.34104	20	PASS
		NV		40	90000	17.34104	20	PASS
		NV		50	90000	17.34104	20	PASS
Ant1	5230	NV		-30	90000	17.20841	20	PASS
		NV		-20	90000	17.20841	20	PASS
		NV		-10	90000	17.20841	20	PASS
		NV		0	90000	17.20841	20	PASS
		NV		10	90000	17.20841	20	PASS
		NV		20	90000	17.20841	20	PASS
		NV	30	90000	17.20841	20	PASS	
		NV	40	90000	17.20841	20	PASS	

			NV	50	60000	11.47228	20	PASS
	Ant2	5230	NV	-30	90000	17.20841	20	PASS
			NV	-20	90000	17.20841	20	PASS
			NV	-10	90000	17.20841	20	PASS
			NV	0	90000	17.20841	20	PASS
			NV	10	90000	17.20841	20	PASS
			NV	20	90000	17.20841	20	PASS
			NV	30	90000	17.20841	20	PASS
			NV	40	90000	17.20841	20	PASS
			NV	50	90000	17.20841	20	PASS
			Ant1	5270	NV	-30	90000	17.0778
	NV	-20			90000	17.0778	20	PASS
	NV	-10			90000	17.0778	20	PASS
	NV	0			90000	17.0778	20	PASS
	NV	10			90000	17.0778	20	PASS
	NV	20			90000	17.0778	20	PASS
	NV	30			90000	17.0778	20	PASS
	NV	40			90000	17.0778	20	PASS
	NV	50			90000	17.0778	20	PASS
	Ant2	5270	NV	-30	90000	17.0778	20	PASS
			NV	-20	90000	17.0778	20	PASS
			NV	-10	90000	17.0778	20	PASS
			NV	0	90000	17.0778	20	PASS
			NV	10	90000	17.0778	20	PASS
			NV	20	90000	17.0778	20	PASS
			NV	30	90000	17.0778	20	PASS
			NV	40	60000	11.3852	20	PASS
			NV	50	90000	17.0778	20	PASS
	Ant1	5310	NV	-30	60000	11.29944	20	PASS
			NV	-20	60000	11.29944	20	PASS
			NV	-10	60000	11.29944	20	PASS
			NV	0	60000	11.29944	20	PASS
			NV	10	60000	11.29944	20	PASS
			NV	20	90000	16.94915	20	PASS
			NV	30	90000	16.94915	20	PASS
			NV	40	90000	16.94915	20	PASS
			NV	50	90000	16.94915	20	PASS
	Ant2	5310	NV	-30	90000	16.94915	20	PASS
			NV	-20	90000	16.94915	20	PASS
			NV	-10	90000	16.94915	20	PASS
			NV	0	90000	16.94915	20	PASS
			NV	10	90000	16.94915	20	PASS
			NV	20	90000	16.94915	20	PASS

			NV	30	90000	16.94915	20	PASS
			NV	40	90000	16.94915	20	PASS
			NV	50	90000	16.94915	20	PASS
	Ant1	5510	NV	-30	90000	16.33394	20	PASS
			NV	-20	90000	16.33394	20	PASS
			NV	-10	90000	16.33394	20	PASS
			NV	0	90000	16.33394	20	PASS
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			NV	20	90000	16.33394	20	PASS
			NV	30	90000	16.33394	20	PASS
			NV	40	90000	16.33394	20	PASS
			NV	50	90000	16.33394	20	PASS
	Ant2	5510	NV	-30	90000	16.33394	20	PASS
			NV	-20	90000	16.33394	20	PASS
			NV	-10	90000	16.33394	20	PASS
			NV	0	90000	16.33394	20	PASS
			NV	10	90000	16.33394	20	PASS
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			NV	30	90000	16.33394	20	PASS
			NV	40	90000	16.33394	20	PASS
			NV	50	60000	10.88929	20	PASS
	Ant1	5550	NV	-30	90000	16.21622	20	PASS
			NV	-20	90000	16.21622	20	PASS
			NV	-10	90000	16.21622	20	PASS
			NV	0	90000	16.21622	20	PASS
			NV	10	90000	16.21622	20	PASS
			NV	20	90000	16.21622	20	PASS
			NV	30	90000	16.21622	20	PASS
			NV	40	90000	16.21622	20	PASS
			NV	50	90000	16.21622	20	PASS
Ant2	5550	NV	-30	90000	16.21622	20	PASS	
		NV	-20	90000	16.21622	20	PASS	
		NV	-10	90000	16.21622	20	PASS	
		NV	0	90000	16.21622	20	PASS	
		NV	10	90000	16.21622	20	PASS	
		NV	20	60000	10.81081	20	PASS	
		NV	30	90000	16.21622	20	PASS	
		NV	40	90000	16.21622	20	PASS	
		NV	50	90000	16.21622	20	PASS	
Ant1	5670	NV	-30	90000	15.87302	20	PASS	
		NV	-20	90000	15.87302	20	PASS	
		NV	-10	90000	15.87302	20	PASS	
		NV	0	90000	15.87302	20	PASS	

			NV	10	90000	15.87302	20	PASS
			NV	20	90000	15.87302	20	PASS
			NV	30	90000	15.87302	20	PASS
			NV	40	90000	15.87302	20	PASS
			NV	50	90000	15.87302	20	PASS
	Ant2	5670	NV	-30	90000	15.87302	20	PASS
			NV	-20	90000	15.87302	20	PASS
			NV	-10	90000	15.87302	20	PASS
			NV	0	90000	15.87302	20	PASS
			NV	10	90000	15.87302	20	PASS
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			NV	30	90000	15.87302	20	PASS
			NV	40	90000	15.87302	20	PASS
			NV	50	90000	15.87302	20	PASS
	Ant1	5755	NV	-30	90000	15.63858	20	PASS
			NV	-20	90000	15.63858	20	PASS
			NV	-10	90000	15.63858	20	PASS
			NV	0	90000	15.63858	20	PASS
			NV	10	90000	15.63858	20	PASS
			NV	20	90000	15.63858	20	PASS
			NV	30	90000	15.63858	20	PASS
			NV	40	90000	15.63858	20	PASS
			NV	50	90000	15.63858	20	PASS
	Ant2	5755	NV	-30	90000	15.63858	20	PASS
			NV	-20	90000	15.63858	20	PASS
			NV	-10	90000	15.63858	20	PASS
			NV	0	90000	15.63858	20	PASS
			NV	10	90000	15.63858	20	PASS
			NV	20	90000	15.63858	20	PASS
			NV	30	90000	15.63858	20	PASS
NV			40	90000	15.63858	20	PASS	
NV			50	90000	15.63858	20	PASS	
Ant1	5795	NV	-30	90000	15.53063	20	PASS	
		NV	-20	90000	15.53063	20	PASS	
		NV	-10	90000	15.53063	20	PASS	
		NV	0	90000	15.53063	20	PASS	
		NV	10	90000	15.53063	20	PASS	
		NV	20	90000	15.53063	20	PASS	
		NV	30	90000	15.53063	20	PASS	
		NV	40	90000	15.53063	20	PASS	
		NV	50	90000	15.53063	20	PASS	
Ant2	5795	NV	-30	90000	15.53063	20	PASS	
		NV	-20	90000	15.53063	20	PASS	

			NV	-10	90000	15.53063	20	PASS
			NV	0	90000	15.53063	20	PASS
			NV	10	90000	15.53063	20	PASS
			NV	20	90000	15.53063	20	PASS
			NV	30	90000	15.53063	20	PASS
			NV	40	90000	15.53063	20	PASS
			NV	50	90000	15.53063	20	PASS
11AC80 SISO	Ant1	5210	NV	-30	80000	15.35509	20	PASS
			NV	-20	80000	15.35509	20	PASS
			NV	-10	80000	15.35509	20	PASS
			NV	0	80000	15.35509	20	PASS
			NV	10	80000	15.35509	20	PASS
			NV	20	80000	15.35509	20	PASS
			NV	30	80000	15.35509	20	PASS
			NV	40	80000	15.35509	20	PASS
			NV	50	80000	15.35509	20	PASS
	Ant2	5210	NV	-30	80000	15.35509	20	PASS
			NV	-20	80000	15.35509	20	PASS
			NV	-10	80000	15.35509	20	PASS
			NV	0	80000	15.35509	20	PASS
			NV	10	80000	15.35509	20	PASS
			NV	20	80000	15.35509	20	PASS
			NV	30	80000	15.35509	20	PASS
			NV	40	80000	15.35509	20	PASS
			NV	50	80000	15.35509	20	PASS
	Ant1	5290	NV	-30	80000	15.12287	20	PASS
			NV	-20	80000	15.12287	20	PASS
			NV	-10	80000	15.12287	20	PASS
			NV	0	80000	15.12287	20	PASS
			NV	10	80000	15.12287	20	PASS
			NV	20	80000	15.12287	20	PASS
			NV	30	80000	15.12287	20	PASS
			NV	40	80000	15.12287	20	PASS
			NV	50	80000	15.12287	20	PASS
	Ant2	5290	NV	-30	80000	15.12287	20	PASS
			NV	-20	80000	15.12287	20	PASS
			NV	-10	80000	15.12287	20	PASS
			NV	0	80000	15.12287	20	PASS
			NV	10	80000	15.12287	20	PASS
			NV	20	80000	15.12287	20	PASS
			NV	30	80000	15.12287	20	PASS
			NV	40	80000	15.12287	20	PASS
			NV	50	80000	15.12287	20	PASS

	Ant1	5530	NV	-30	80000	14.46655	20	PASS
			NV	-20	80000	14.46655	20	PASS
			NV	-10	80000	14.46655	20	PASS
			NV	0	80000	14.46655	20	PASS
			NV	10	80000	14.46655	20	PASS
			NV	20	80000	14.46655	20	PASS
			NV	30	80000	14.46655	20	PASS
			NV	40	80000	14.46655	20	PASS
			NV	50	80000	14.46655	20	PASS
	Ant2	5530	NV	-30	80000	14.46655	20	PASS
			NV	-20	80000	14.46655	20	PASS
			NV	-10	80000	14.46655	20	PASS
			NV	0	80000	14.46655	20	PASS
			NV	10	80000	14.46655	20	PASS
			NV	20	80000	14.46655	20	PASS
			NV	30	80000	14.46655	20	PASS
			NV	40	80000	14.46655	20	PASS
			NV	50	80000	14.46655	20	PASS
	Ant1	5610	NV	-30	80000	14.26025	20	PASS
			NV	-20	80000	14.26025	20	PASS
			NV	-10	80000	14.26025	20	PASS
			NV	0	80000	14.26025	20	PASS
			NV	10	80000	14.26025	20	PASS
			NV	20	80000	14.26025	20	PASS
			NV	30	80000	14.26025	20	PASS
			NV	40	80000	14.26025	20	PASS
			NV	50	80000	14.26025	20	PASS
	Ant2	5610	NV	-30	80000	14.26025	20	PASS
			NV	-20	80000	14.26025	20	PASS
			NV	-10	80000	14.26025	20	PASS
			NV	0	80000	14.26025	20	PASS
			NV	10	80000	14.26025	20	PASS
			NV	20	80000	14.26025	20	PASS
			NV	30	80000	14.26025	20	PASS
			NV	40	80000	14.26025	20	PASS
			NV	50	80000	14.26025	20	PASS
Ant1	5775	NV	-30	80000	13.85281	20	PASS	
		NV	-20	80000	13.85281	20	PASS	
		NV	-10	80000	13.85281	20	PASS	
		NV	0	80000	13.85281	20	PASS	
		NV	10	80000	13.85281	20	PASS	
		NV	20	80000	13.85281	20	PASS	
		NV	30	80000	13.85281	20	PASS	

			NV	40	80000	13.85281	20	PASS
			NV	50	80000	13.85281	20	PASS
	Ant2	5775	NV	-30	80000	13.85281	20	PASS
			NV	-20	80000	13.85281	20	PASS
			NV	-10	80000	13.85281	20	PASS
			NV	0	80000	13.85281	20	PASS
			NV	10	80000	13.85281	20	PASS
			NV	20	80000	13.85281	20	PASS
			NV	30	80000	13.85281	20	PASS
			NV	40	80000	13.85281	20	PASS
			NV	50	80000	13.85281	20	PASS