

# LNBF Testing Results - 125w

Location: Sacramento, CA  
Dish: GEOSATpro 90cm  
Satellite: 125w KU

Date: 08/2/2012  
Time: 18:00 UTC  
Conditions: Clear / 92F

Chaparral	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 4 TPs	-125	12035.472	H	3726	71.6					Unlock		18.4	120
		12140.056	V	30000	81.1	85	11.1	11.2	12.4	LOCK	-1.564	13.4	125
		12163.056	H	4444	77.2					Unlock		18.4	120
		12169.052	H	4440	76.6					Unlock		18.4	120
		12175.052	H	4444	76					Unlock		18.4	120
Average					76.50	85	11.1	11.2	12.4		-1.56		
ESX521	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 2 TPs	-125	12035.472	H	3726	74.6					Unlock		18.4	85
		12140.056	V	30000	85.8	85	11.1	11.2	12.4	LOCK	-1.257	13.4	85
		12163.056	H	4444	80.9	78	9.9	10	11.2	LOCK	4.704	18.4	85
		12169.052	H	4440	80.6	80	10.3	10.4	11.6	LOCK	4.705	18.4	85
		12175.052	H	4444	79.6					Unlock		18.4	85
Average					80.30	81.00	10.43	10.53	11.73		2.72		
ESX522	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 2 TPs	-125	12035.472	H	3726	71.9					Unlock		18.4	150
		12140.056	V	30000	83.2	80	10.3	10.4	11.6	LOCK	-0.888	13.4	145
		12163.056	H	4444	77.5	77	9.7	9.8	11	LOCK	5.107	18.4	145
		12169.052	H	4440	76.9	81	10.4	10.5	11.7	LOCK	5.11	18.4	150
		12175.052	H	4444	75.8					Unlock		18.4	150
Average					77.06	79.33	10.13	10.23	11.43		3.11		
PLL321s	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
	-125	12035.472	H	3726	72.3	85	11	11.1	12.3	LOCK	-0.09	18.4	165
		12140.056	V	30000	81.2	83	10.8	10.9	12.1	LOCK	-0.13	13.4	160
		12163.056	H	4444	77.3	82	10.6	10.7	11.9	LOCK	-0.131	18.4	165
		12169.052	H	4440	77.3	76	9.5	9.6	10.8	LOCK	-0.127	18.4	165
		12175.052	H	4444	76.6	77	9.8	9.9	11.1	LOCK	-0.13	18.4	165
Average					76.94	80.60	10.34	10.44	11.64		-0.12		
SL1PLL	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
	-125	12035.472	H	3726	70.7	91	12	12.1	13.3	LOCK	-0.048	18.4	155
		12140.056	V	30000	79.7	82	10.6	10.7	11.9	LOCK	-0.087	13.4	155
		12163.056	H	4444	76.9	88	11.5	11.6	12.8	LOCK	-0.089	18.4	155
		12169.052	H	4440	76.8	85	11.1	11.2	12.4	LOCK	-0.087	18.4	155
		12175.052	H	4444	75.7	88	11.5	11.6	12.8	LOCK	-0.088	18.3	155
Average					75.96	86.8	11.34	11.44	12.64		-0.08		
SL2 Bullet	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
	-125	12035.472	H	3726	68	82	10.6	10.7	11.9	LOCK	-0.375	18.3	115
		12140.056	V	30000	75.6	82	10.5	10.6	11.8	LOCK	-0.413	13.4	115
		12163.056	H	4444	71.8	76	9.6	9.7	10.9	LOCK	-0.415	18.3	115
		12169.052	H	4440	71.8	71	8.7	8.8	10	LOCK	-0.41	18.4	115
		12175.052	H	4444	69.9	73	9.1	9.2	10.4	LOCK	-0.412	18.4	115
Average					71.42	76.80	9.70	9.80	11.00		-0.41		
Invacom SNH031	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 1 TP	-125	12035.472	H	3726	63.4					Unlock		18.4	100
		12140.056	V	30000	75.1	87	11.4	11.5	12.7	LOCK	2.691	13.4	100
		12163.056	H	4444	69.9	88	11.5	11.6	12.8	LOCK	2.694	18.4	100
		12169.052	H	4440	70.1	86	11.3	11.4	12.6	LOCK	2.298	18.4	100
		12175.052	H	4444	69.5	85	11.1	11.2	12.4	LOCK	2.296	18.4	100
Average					69.60	86.50	11.33	11.43	12.63		2.49		

Model	Level	Quality	CNR	Eb/No	Es/No	LO Center	TP Locked
Chaparral	76.50	85.00	11.10	11.20	12.40	-1.56	1
ESX521	80.30	81.00	10.43	10.53	11.73	2.72	3
ESX522	77.06	79.33	10.13	10.23	11.43	3.11	3
PLL321s	76.94	80.60	10.34	10.44	11.64	-0.12	5
SL1PLL	75.96	86.8	11.34	11.44	12.64	-0.08	5
SL2 Bullet	71.42	76.80	9.70	9.80	11.00	-0.41	5
Invacom SNH031	69.60	86.50	11.33	11.43	12.63	2.49	4