

Antenna 14 T-Data as of 3 Oct 2006

TCAL & SCAL's for VLA/VLBI Default Frequencies:

Receiver	IF Pair	Freq (MHz)	LCP TCAL	LCP SCAL	RCP TCAL	RCP SCAL
L-Band <i>Freq Step (MHz) = 25</i> S/N = L#32 Type = Interim Date = 15 Dec 2004	AC	1465	2.35	2669	2.47	2844
	BD	1385	2.16	2505	2.19	2613
S-Band <i>Freq Step (MHz) = 25</i> S/N = S#00 Type = EVLA Date = dd mmm yyyy	AC	?	#N/A	#N/A	#N/A	#N/A
	BD	?	#N/A	#N/A	#N/A	#N/A
C-Band <i>Freq Step (MHz) = 50</i> S/N = C#01 Type = Interim Date = 27 Jan 2005	AC	4885	1.36	0	1.46	0
	BD	4835	1.37	0	1.48	0
X-Band <i>Freq Step (MHz) = 100</i> S/N = X#01 Type = Transition Date = 17 Nov 2004	AC	8435	2.04	955	1.87	880
	BD	8485	2.06	990	1.89	908
Ku-Band <i>Freq Step (MHz) = 100</i> S/N = U#00 Type = EVLA Date = dd mmm yyyy	AC	14965	0.00	0	0.00	0
	BD	14915	0.00	0	0.00	0
K-Band <i>Freq Step (MHz) = 100</i> S/N = K#28 Type = Interim Date = 15 Dec 2004	AC	22485	2.84	0	2.91	0
	BD	22435	2.68	0	2.83	0
Ka-Band <i>Freq Step (MHz) = 100</i> S/N = A#00 Type = EVLA Date = dd mmm yyyy	AC	?	#N/A	#N/A	#N/A	#N/A
	BD	?	#N/A	#N/A	#N/A	#N/A
Q-Band <i>Freq Step (MHz) = 100</i> S/N = Q#30 Type = Interim Date = 15 Mar 2005	AC	43315	6.37	0	6.18	0
	BD	43365	6.27	0	6.24	0

Note : $T = T1 + [(F-F1) / (F1-F2)] * (T1-T2)$

S/N = L#32
 Type = Interim
 Date = 15 Dec 2004

Fsky (MHz)	Left Circular Polarization LL324B19.612				Right Circular Polarization LR324B19.543			
	LCP-Gain (dB)	LCP-Trx (K)	LCP-Tcal (K)	LCP-Scal (K)	RCP-Gain (dB)	RCP-Trx (K)	RCP-Tcal (K)	RCP-Scal (K)
1000	33.5	215.4	12.07	26019	34.2	226.8	12.58	28082
1025	36	149.2	10.93	21239	36.7	157.6	11.47	22774
1050	38.3	85.5	6.29	11048	38.9	86.4	5.77	10547
1075	38.6	71.4	6.85	11965	39.3	68.1	6.35	11063
1100	41.1	50.2	4.53	7461	41.1	49.6	4.78	7916
1125	44.2	26.7	2.88	4327	44	25.9	2.90	4553
1150	47.8	15.8	1.94	2969	47.4	14.3	1.94	2995
1175	48.8	13.1	1.87	2884	48.5	11.7	1.80	2822
1200	48.9	13.1	2.08	3190	48.4	12.0	2.03	3167
1225	48.8	12.7	2.29	3509	48.2	11.2	2.23	3476
1250	49.1	12.5	2.14	3091	48.3	11.0	2.09	3161
1275	49.8	12.5	1.93	2635	48.9	11.0	1.91	2720
1300	50.4	12.5	1.96	2642	49.3	11.2	1.95	2684
1325	50.6	12.0	2.11	2733	49.5	11.1	2.03	2699
1350	50.9	11.3	2.10	2609	49.7	10.4	2.09	2620
1375	51	10.7	2.08	2473	49.6	10.0	2.16	2620
1400	51	10.6	2.28	2552	49.6	9.7	2.23	2603
1425	50.8	11.2	2.53	2735	49.4	10.6	2.41	2697
1450	50.5	12.4	2.51	2776	48.9	12.2	2.54	2860
1475	50.3	13.1	2.25	2597	48.6	13.6	2.43	2834
1500	50.2	12.6	2.15	2456	48.4	12.3	2.20	2609
1525	50	12.4	2.10	2523	48.3	12.2	2.00	2518
1550	50	11.8	2.08	2570	48.4	11.6	2.07	2527
1575	49.6	12.2	2.16	2586	48.2	11.8	2.10	2573
1600	49.3	12.5	2.25	2628	47.9	12.3	2.22	2619
1625	49	12.5	2.31	2678	47.6	12.4	2.29	2689
1650	48.8	12.4	2.36	2635	47.3	12.5	2.32	2644
1675	48.6	12.8	2.37	2632	47.1	12.6	2.32	2622
1700	48.3	13.2	2.32	2619	46.7	12.7	2.25	2605
1725	48.3	14.1	2.17	2606	46.6	13.0	2.12	2551
1750	48.4	13.1	2.04	2585	46.6	14.2	2.02	2586
1775	48.3	13.1	1.88	2521	46.5	12.8	1.93	2592
1800	48.2	13.4	1.72	2479	46.4	13.8	1.75	2573
1825	47.9	14.6	1.73	2484	46	15.0	1.77	2528
1850	47.8	15.0	1.84	2445	45.9	15.1	1.77	2463
1875	47.7	15.4	1.76	2364	45.3	14.7	1.81	2451
1900	47.6	14.4	1.81	2323	45.1	14.1	1.79	2388
1925	47.7	14.5	1.80	2361	44.8	14.6	1.70	2265
1950	48	14.9	1.69	2370	45.1	15.1	1.70	2414
1975	47.7	15.3	1.49	2269	44.8	15.5	1.49	2377
2000	46.1	14.9	1.30	2182	43.6	15.7	1.42	2452

Comments:

T-Data information for the L-Band receiver (L#32) on Antenna 14.

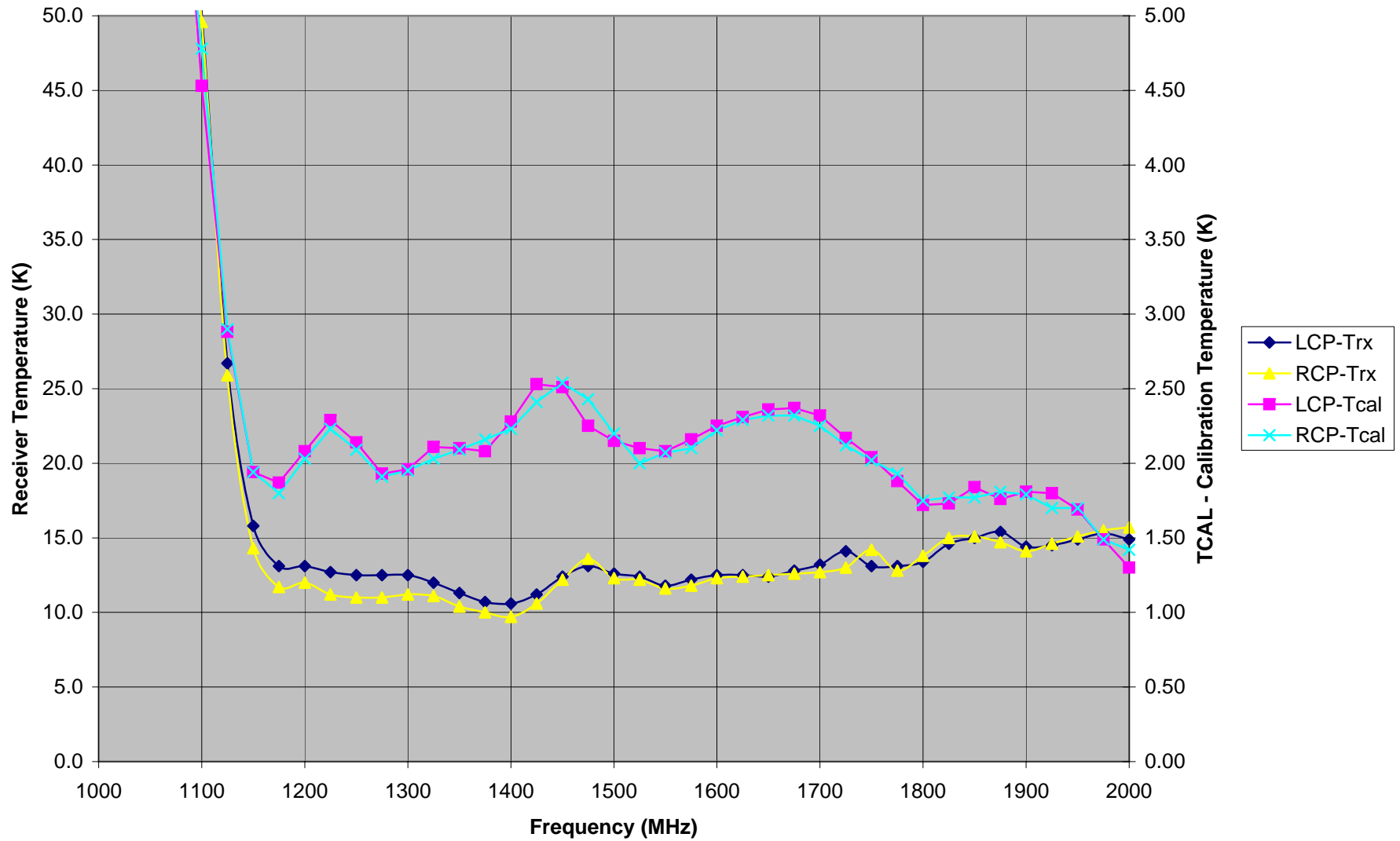
It is an "interim" receiver with an old quad-ridge OMT and card cage.

It is the first receiver outfitted with the new low-noise / high-power balanced amplifier blocks from CDL.

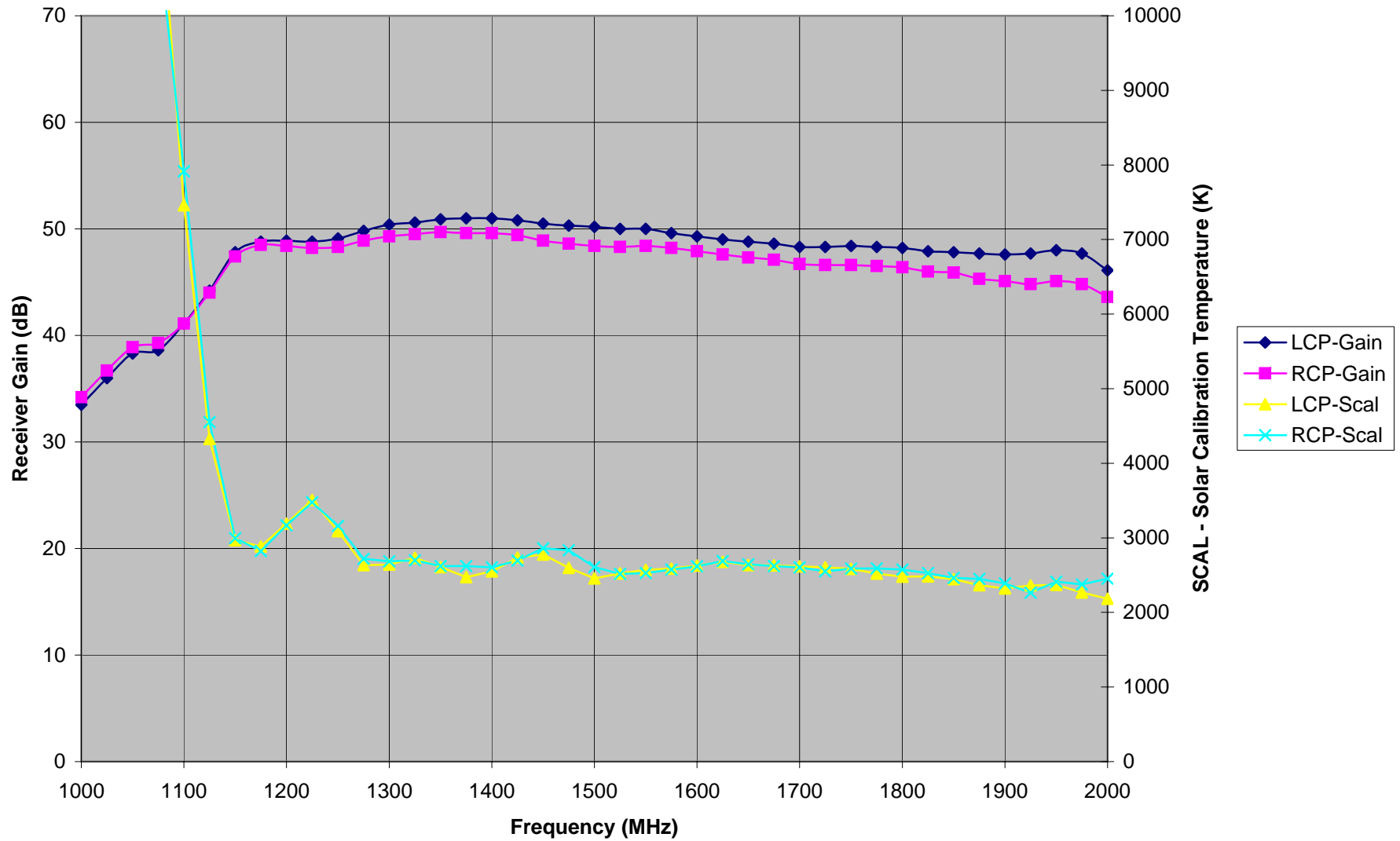
It also has a Solar Cal noise diode (which may not actually be of much use).

To be eventually replaced by new EVLA L-Band Rx.

L-Band : Receiver & Calibration Temperature Plots



L-Band : Receiver Gain & Solar Calibration Temperature Plots



S/N = S#00
Type = EVLA
Date = dd mmm yyyy

Left Circular Polarization SLssymdd.mmm			
LCP-Gain (dB)	LCP-Trx (K)	LCP-Tcal (K)	LCP-Scal (K)

Right Circular Polarization SRssymdd.mmm			
RCP-Gain (dB)	RCP-Trx (K)	RCP-Tcal (K)	RCP-Scal (K)

Fsky
(MHz)

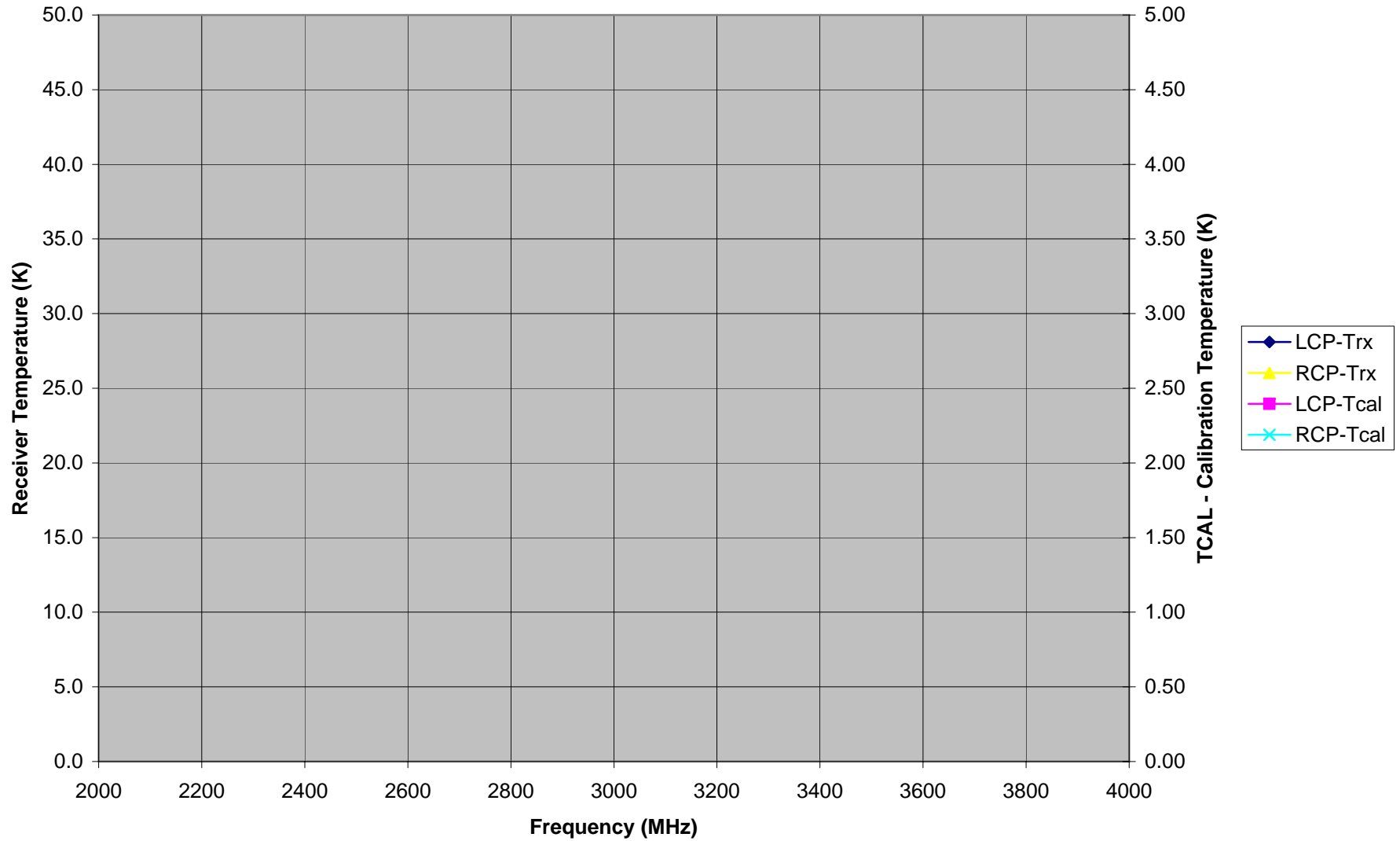
2000
2025
2050
2075
2100
2125
2150
2175
2200
2225
2250
2275
2300
2325
2350
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2400
2425
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2500
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2600
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2650
2675
2700
2725
2750
2775
2800
2825
2850
2875
2900
2925
2950
2975
3000
3025
3050

3075
3100
3125
3150
3175
3200
3225
3250
3275
3300
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3350
3375
3400
3425
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3900
3925
3950
3975
4000

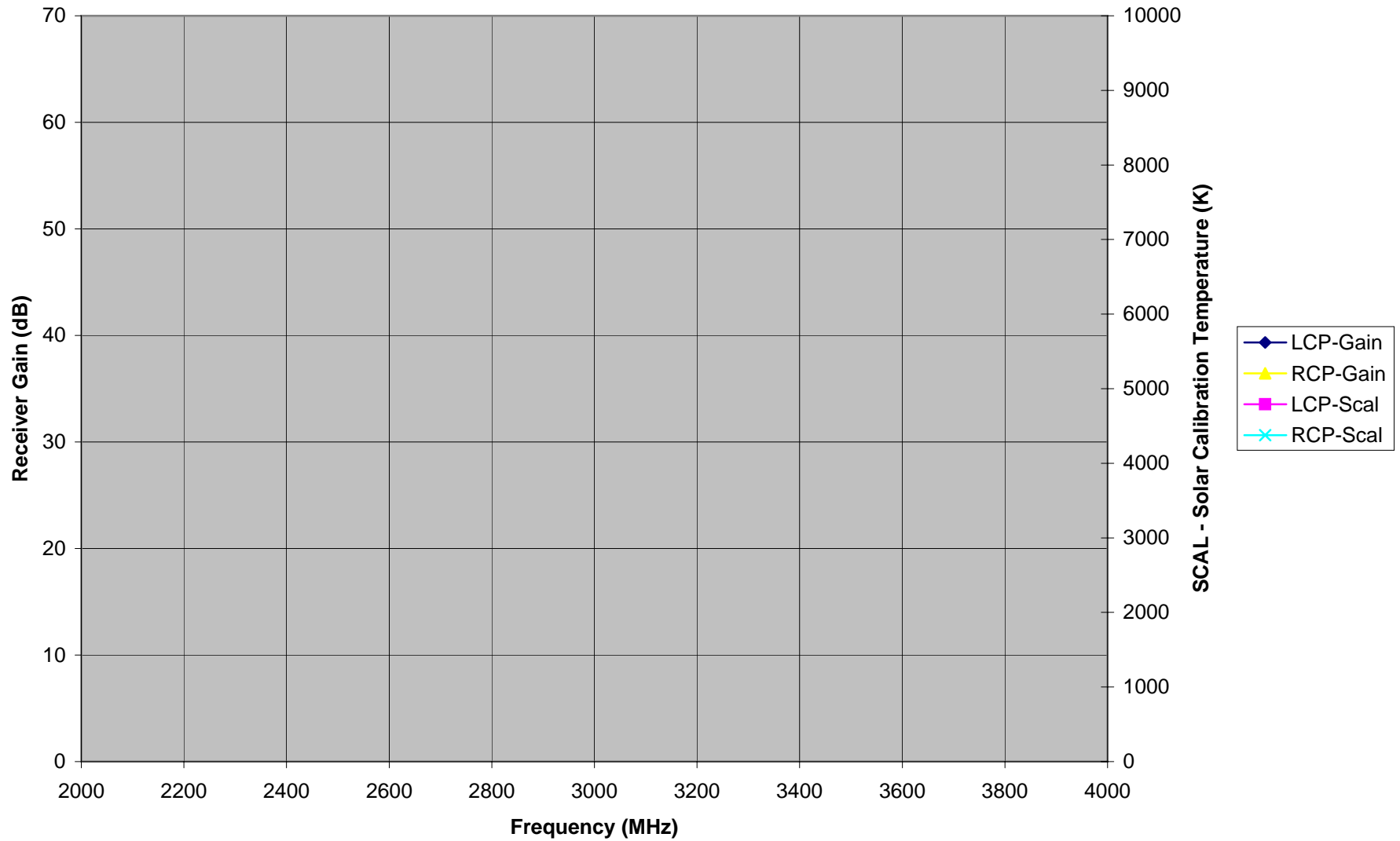
Comments:

T-Data information for the S-Band receiver (S#nn) on Antenna NN.

S-Band : Receiver & Calibration Temperature Plots



S-Band : Receiver Gain & Solar Calibration Temperature Plots



S/N = C#01
Type = Interim
Date = 27 Jan 2005

Left Circular Polarization CL015118.751			
LCP-Gain (dB)	LCP-Trx (K)	LCP-Tcal (K)	LCP-Scal (K)

Right Circular Polarization CR015118.762			
RCP-Gain (dB)	RCP-Trx (K)	RCP-Tcal (K)	RCP-Scal (K)

**Fsky
(MHz)**

4000
 4050
 4100
 4150
 4200
 4250
 4300
 4350
 4400
 4450
 4500
 4550
 4600
 4650
 4700
 4750
 4800
 4850
 4900
 4950
 5000
 5050
 5100
 5150
 5200
 5250
 5300
 5350
 5400
 5450
 5500
 5550
 5600
 5650
 5700
 5750
 5800
 5850
 5900
 5950
 6000
 6050
 6100

	59	18.1	1.17	58.4	16.5	1.37
	59.1	17.1	1.31	58.2	17	1.36
	59.1	17	1.28	58	16.7	1.4
	59.1	16.7	1.4	58.1	17.6	1.45
	59.6	18.5	1.35	58.6	16.7	1.43
	59.7	17.6	1.31	58.8	17.7	1.4
	59.5	16.9	1.37	58.6	17.2	1.42
	59	17.6	1.37	58.2	16.8	1.5
	58.9	17	1.35	57.9	17.2	1.44
	58.9	18.6	1.38	58	18.1	1.5
	58.9	18.2	1.37	57.9	17.6	1.52
	58.4	16.7	1.38	57.3	16.6	1.54
	58.1	17.6	1.41	57.1	17	1.51
	58	18.5	1.4	57.2	17.5	1.5
	57.9	32	1.55	57.6	28.1	1.66

6150
6200
6250
6300
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6400
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6550
6600
6650
6700
6750
6800
6850
6900
6950
7000
7050
7100
7150
7200
7250
7300
7350
7400
7450
7500
7550
7600
7650
7700
7750
7800
7850
7900
7950
8000

Comments:

T-Data information for the C-Band receiver (C#01) on Antenna 14.

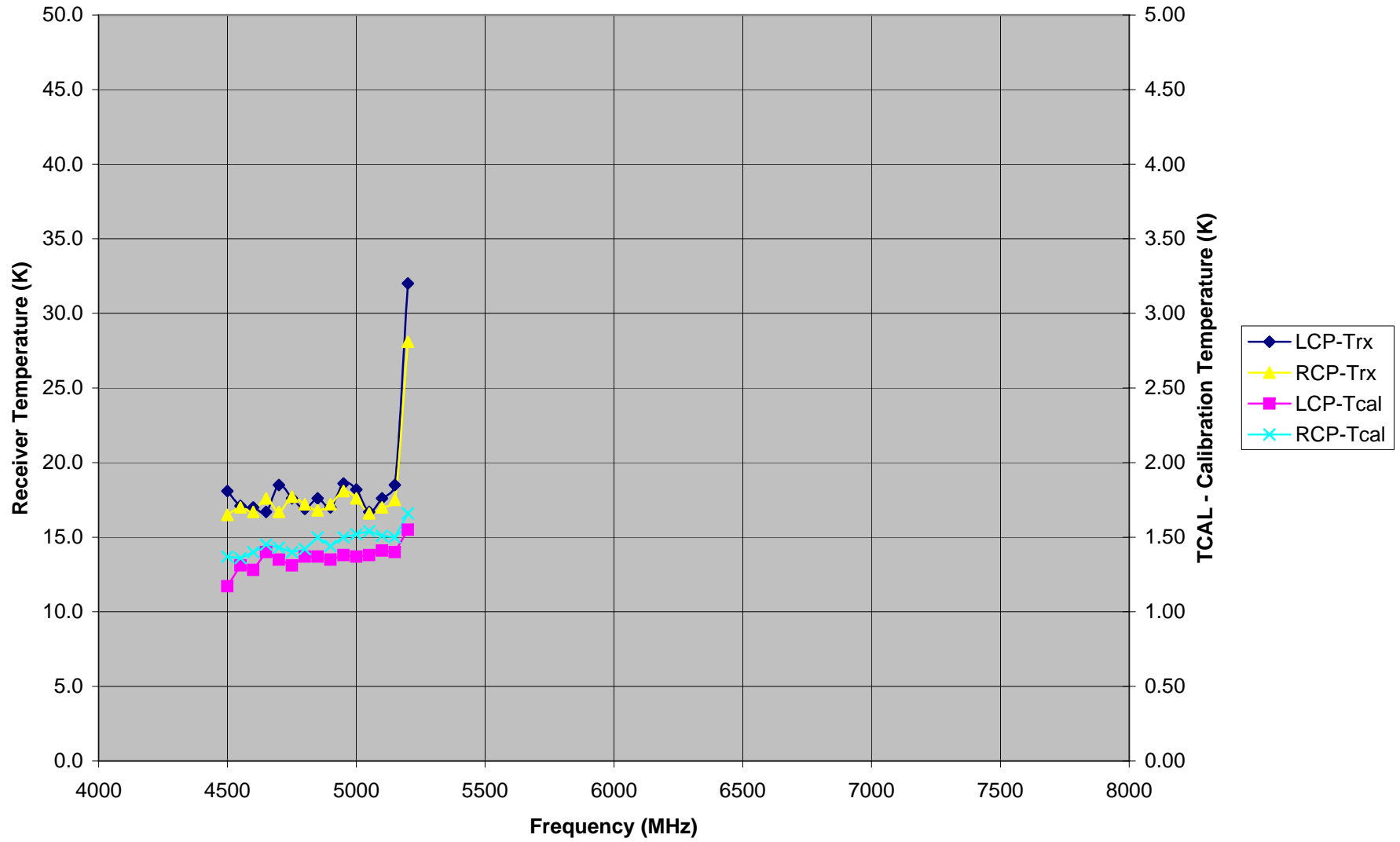
This is an "interim" receiver with a VLBA-style septum polarizer and thus only has a 4.5-5.2 GHz bandwidth. Once the new 4-8 GHz OMT is ready, it will be upgraded.

The receiver also has an old Card Cage, AC Box & prototype RF box, which will eventually be replaced

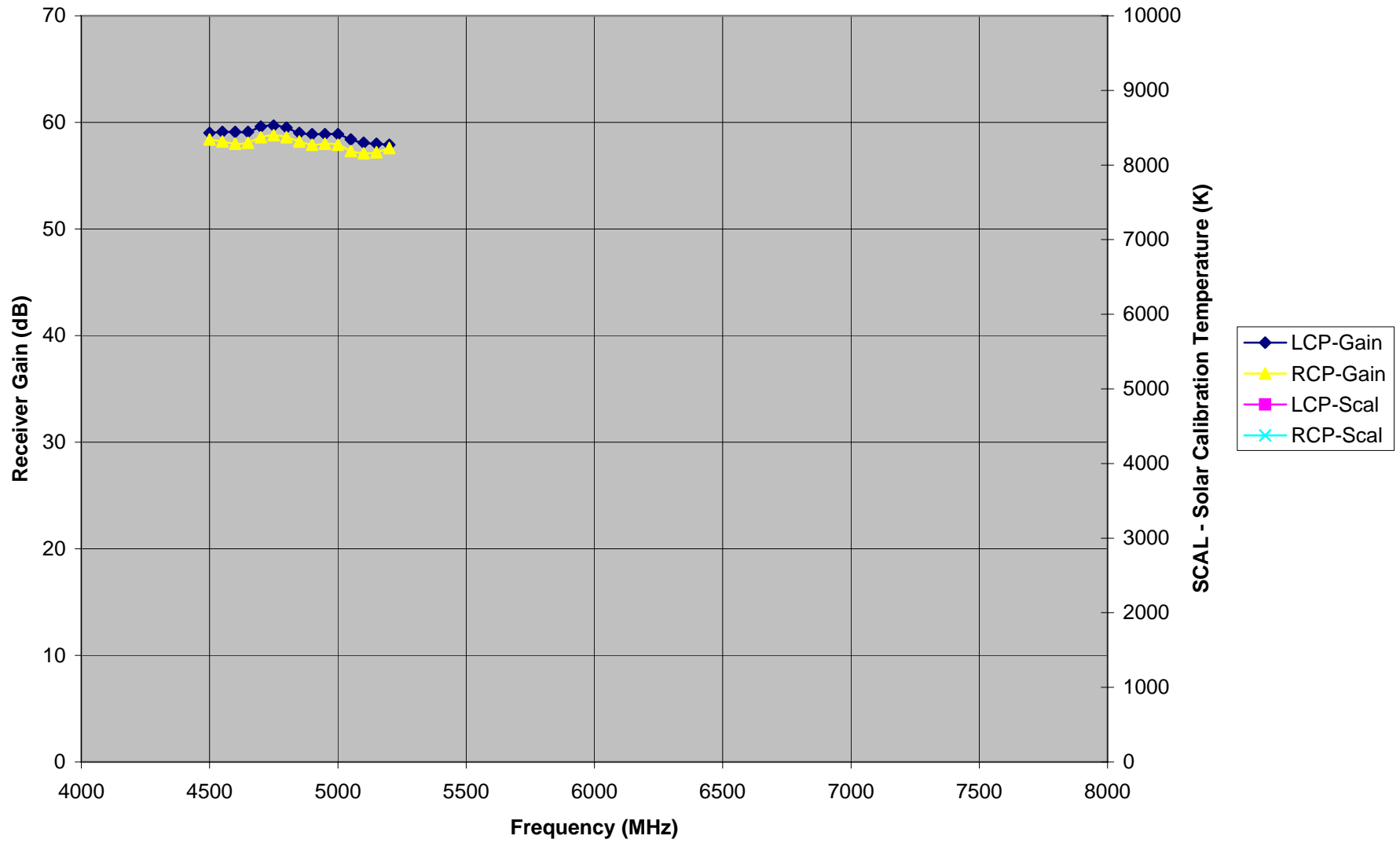
It also needs a new New Diode Card as well as optimized 4-8 GHz LNA's.

It does not have a Solar Cal.

C-Band : Receiver & Calibration Temperature Plots



C-Band : Receiver Gain & Solar Calibration Temperature Plots



S/N = X#01
 Type = Transition
 Date = 17 Nov 2004

Left Circular Polarization XL014912.619			
LCP-Gain (dB)	LCP-Trx (K)	LCP-Tcal (K)	LCP-Scal (K)

Right Circular Polarization XR014912.691			
RCP-Gain (dB)	RCP-Trx (K)	RCP-Tcal (K)	RCP-Scal (K)

Fsky
(MHz)

7000								
7100								
7200								
7300								
7400	37.1	28.5	1.54	570	31.6	30.1	1.4	558
7500	41.7	23.6	1.66	558	34.1	23.8	1.68	539
7600	46.1	18.5	1.6	604	39.8	17.7	1.58	587
7700	47.1	15	1.84	797	43.4	12.5	1.74	749
7800	45.3	13.1	1.89	901	44.1	10.2	1.74	846
7900	43.9	14	1.81	859	42.6	10.8	1.7	796
8000	43.6	14.3	1.99	799	42.5	11.7	1.89	751
8100	42.1	14.4	2.03	751	41.8	11.6	1.94	707
8200	42.3	13.5	2.04	727	41.2	11.7	1.96	696
8300	42	13.2	2.08	806	42.2	12	1.98	761
8400	42.2	13.2	2.02	930	41.7	11.7	1.86	860
8500	42.1	14	2.07	1001	42.9	12	1.89	916
8600	42.3	13.8	2.08	866	42.4	12.6	1.85	776
8700	41.4	13.7	2.01	727	40.8	13.1	1.91	664
8800	41.2	16.8	2.03	715	40.2	15.3	1.84	652
8900	39.1	14.9	1.93	804	37.7	15.6	1.8	749
9000	34.8	18.4	1.83	988	33.7	18.8	1.65	923
9100	30.7	30.1	1.91	992	29.4	33.9	1.71	909
9200	24.3	78.2	3.41	1404	23.1	83.6	2.93	1390
9300	23.9	60	2.06	787	21.2	82.7	2.04	848
9400	22.2	72.9	1.76	796	19.2	109.1	1.63	799
9500								
9600								
9700								
9800								
9900								
10000								
10100								
10200								
10300								
10400								
10500								
10600								
10700								
10800								
10900								
11000								
11100								
11200								
11300								
11400								
11500								
11600								
11700								
11800								
11900								
12000								

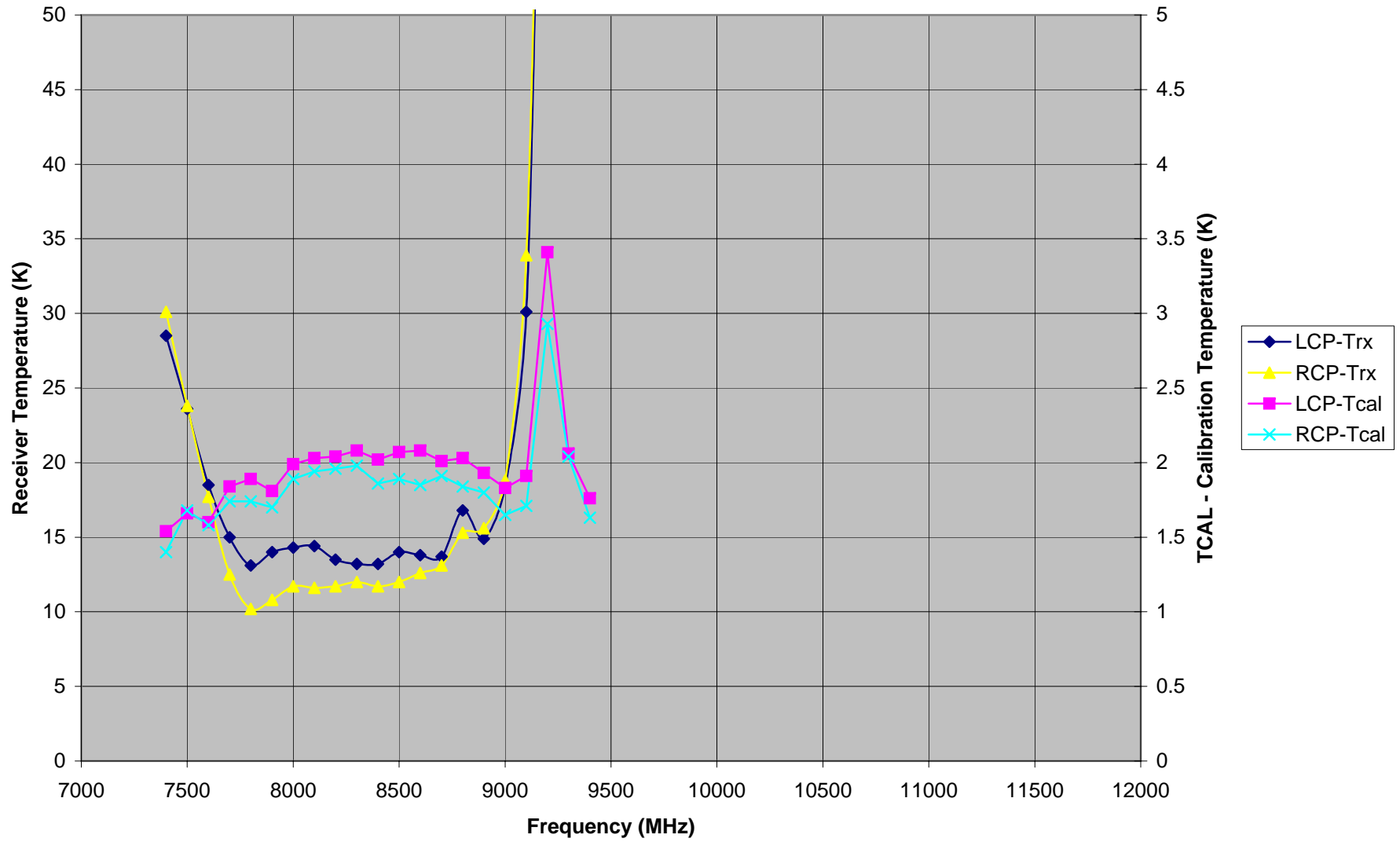
Comments:

T-Data information for the X-Band receiver (X#01) on Antenna 14.

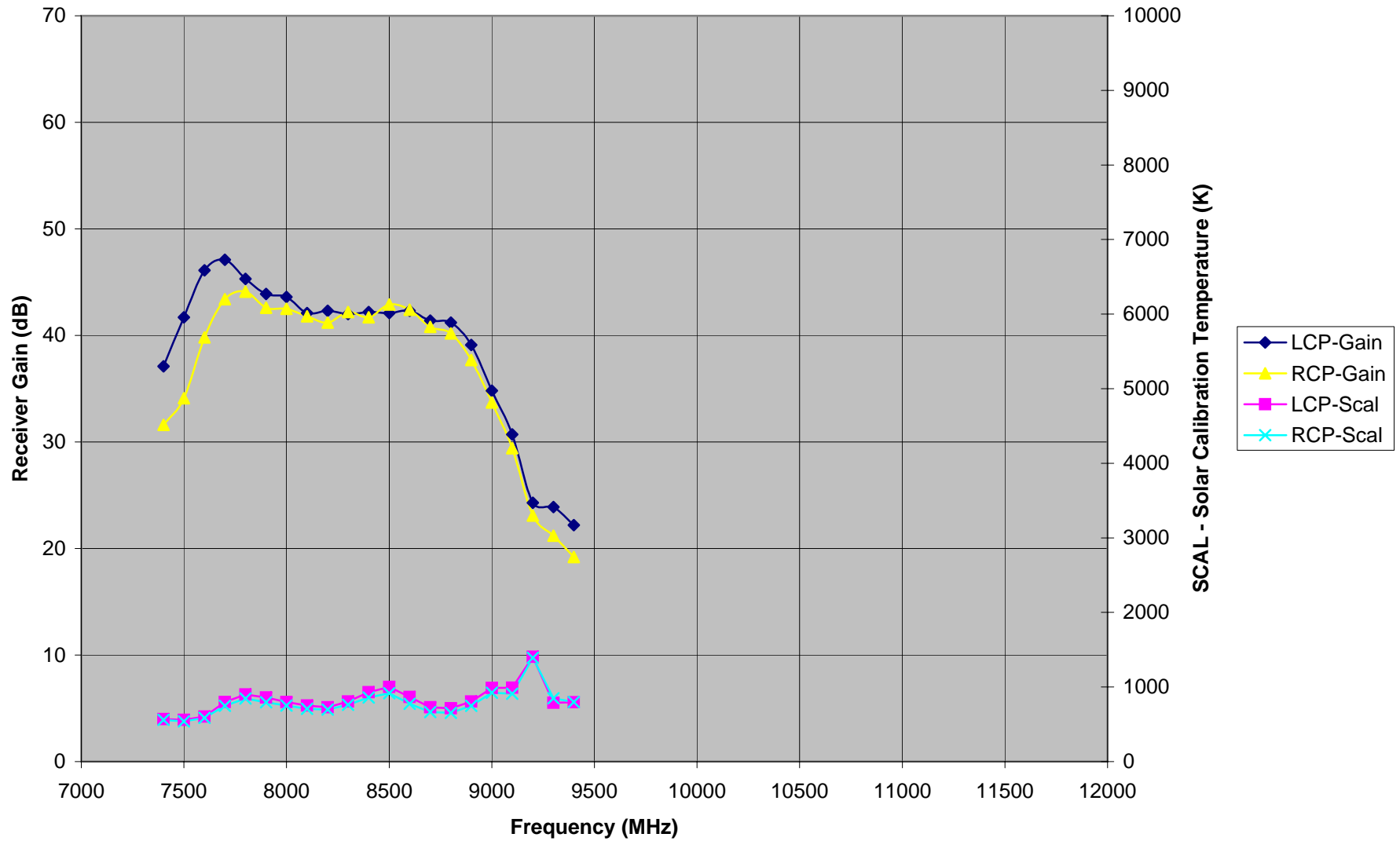
Originally this receiver was slightly modified with an extra post-amp added to each channel to increase the output power level. These were later removed when the IF system gain was deemed to be adequate to compensate for the X-Band's whimpy power level.

It also has a Solar Cal noise diode.

X-Band : Receiver & Calibration Temperature Plots



X-Band : Receiver Gain & Solar Calibration Temperature Plots



S/N = U#00
Type = EVLA
Date = dd mmm yyyy

Left Circular Polarization ULssymdd.mmm			
LCP-Gain (dB)	LCP-Trx (K)	LCP-Tcal (K)	LCP-Scal (K)

Right Circular Polarization URssymdd.mmm			
RCP-Gain (dB)	RCP-Trx (K)	RCP-Tcal (K)	RCP-Scal (K)

Fsky
(MHz)

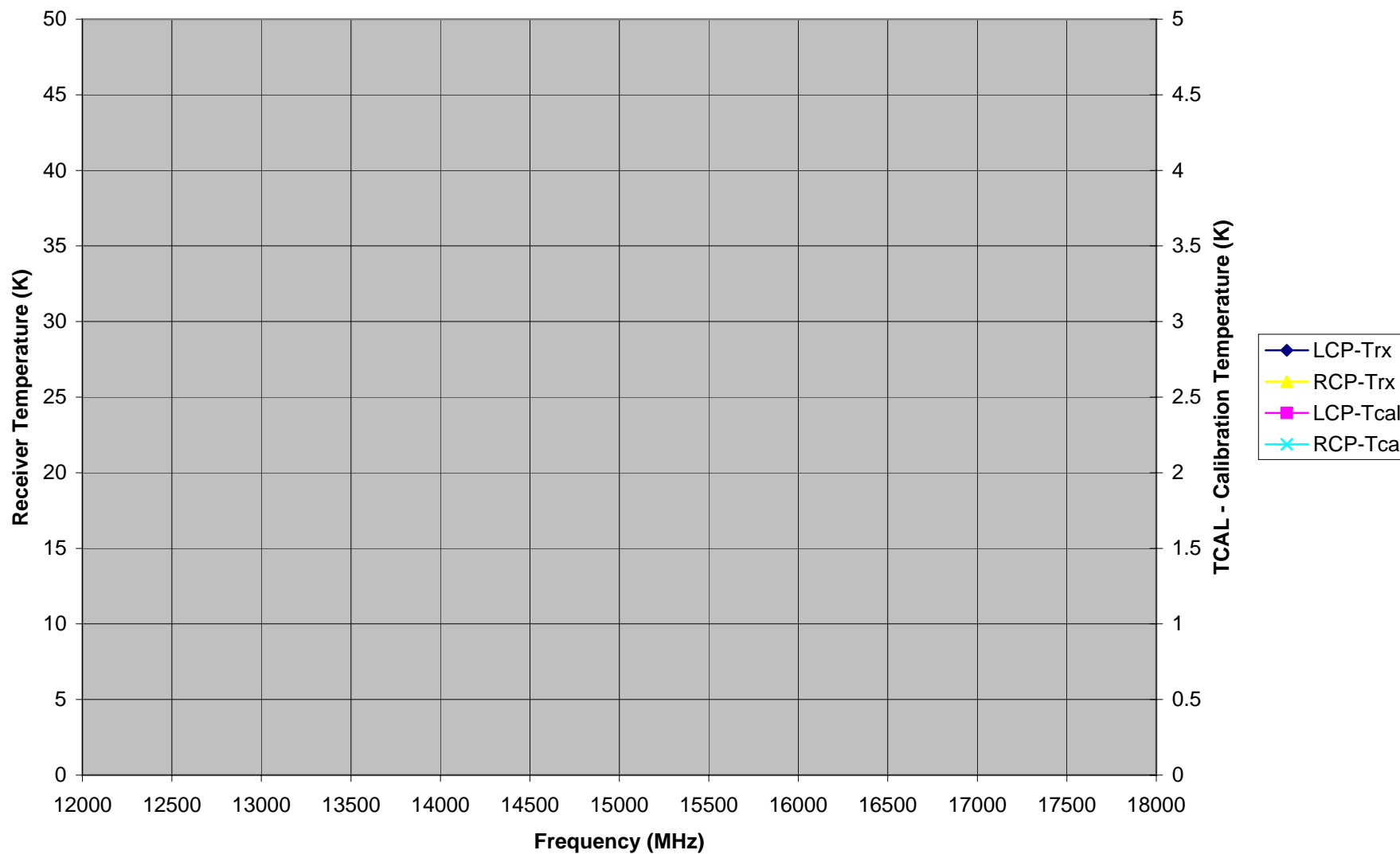
12000
12100
12200
12300
12400
12500
12600
12700
12800
12900
13000
13100
13200
13300
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13500
13600
13700
13800
13900
14000
14100
14200
14300
14400
14500
14600
14700
14800
14900
15000
15100
15200
15300
15400
15500
15600
15700
15800
15900
16000
16100
16200

16300
16400
16500
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17700
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17900
18000

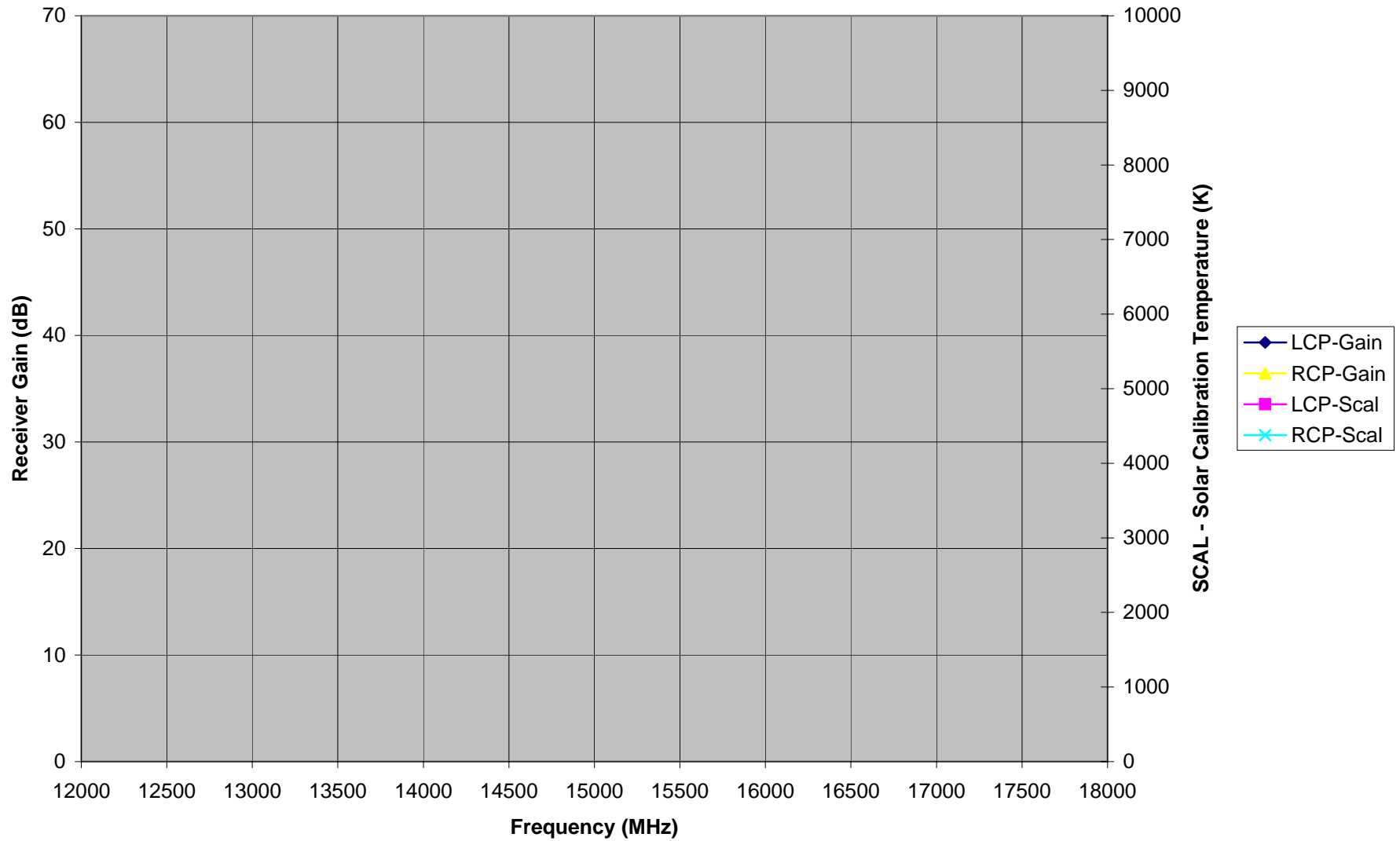
Comments:

T-Data information for the Ku-Band receiver (U#nn) on Antenna NN.

Ku-Band : Receiver & Calibration Temperature Plots



Ku-Band : Receiver Gain & Solar Calibration Temperature Plots



S/N = K#28
 Type = Interim
 Date = 15 Dec 2004

Fsky (MHz)	Left Circular Polarization KL284C03.660				Right Circular Polarization KR284C03.606			
	LCP-Gain (dB)	LCP-Trx (K)	LCP-Tcal (K)	LCP-Scal (K)	RCP-Gain (dB)	RCP-Trx (K)	RCP-Tcal (K)	RCP-Scal (K)
18000	36.8	37.7	1.66		36.3	31.1	2.24	
18100	36.8	37.8	1.77		36.7	31.2	2.32	
18200	37.8	35.2	2.09		37.8	28.2	2.83	
18300	38.5	34.4	2.38		38.2	27.3	2.6	
18400	39.4	33.1	2.39		39.1	26.9	2.82	
18500	39.8	29.7	2.73		39.2	24.6	2.82	
18600	40.2	31.3	2.59		40	24.9	2.8	
18700	40.4	26.6	2.61		40.3	21.3	2.78	
18800	41.1	26.4	2.67		41	21.6	2.86	
18900	41.2	25.8	2.58		41.3	20.5	2.79	
19000	42.3	24.9	2.89		42	19.1	3.13	
19100	42.6	24.4	2.41		42.5	19.9	2.81	
19200	43.3	22.7	2.74		42.8	17.8	3.37	
19300	43.1	23.2	2.45		43.1	18.3	3.02	
19400	44	20.7	2.59		43.1	18	3.32	
19500	43.5	20.7	2.55		43.3	17.9	3.31	
19600	44	21.6	2.64		43	18.6	3.33	
19700	43.3	21.5	2.69		43.3	17	3.59	
19800	43.5	23	2.74		42.8	18.2	3.37	
19900	43.4	21.9	2.71		43	17.9	3.61	
20000	43.5	20.7	2.89		42.7	16.9	3.31	
20100	42.9	21.6	2.8		42.9	17.9	3.51	
20200	42.6	20.5	2.96		42.4	17	3.28	
20300	42.4	21	3		42.6	18	3.4	
20400	42.7	20.5	3.03		42.4	17.5	3.19	
20500	42.6	20.1	3.18		42.7	16.7	3.22	
20600	42.6	20.5	3.16		42.2	18.3	3.29	
20700	42.4	18.2	2.93		42.2	16.7	3.27	
20800	42.7	20.7	3.02		41.9	18.7	3.21	
20900	42	19.9	2.75		42.2	18	3.14	
21000	42.2	18.1	2.9		42.1	16.8	3.24	
21100	41.5	19.9	2.42		42.3	18.1	2.88	
21200	41.3	19	2.54		42.1	15.9	3.02	
21300	41.6	19.4	2.19		42.1	17.8	2.8	
21400	41.7	17.3	2.36		41.7	17.3	2.95	
21500	41.5	17	2.21		41.7	16.2	2.86	
21600	41.5	18	2.22		40.8	17.4	2.77	
21700	42	16	2.04		40.7	15.8	2.65	
21800	41.8	17.1	1.79		40.8	16.5	2.23	
21900	41.9	17.3	1.96		41.1	16.4	2.43	
22000	41.1	16.2	2.38		41.3	15.8	2.88	
22100	41.7	16.5	2.27		41.4	17	2.75	
22200	41.1	16	2.42		41.7	16.2	2.89	
22300	41.9	15.9	2.47		41.7	16.2	2.72	

22400	41.4	16.3	2.57	42	16.7	2.77
22500	42.1	14.9	2.89	41.8	15.1	2.94
22600	41.8	16.3	2.96	42.2	16.8	3.06
22700	42.1	15.4	2.83	41.9	15.9	2.77
22800	41.6	15.8	3.06	42.6	16	3.04
22900	42.1	16.4	2.91	42.7	16.8	2.69
23000	41.8	15.4	2.75	43.3	15.4	2.9
23100	42.7	16.8	2.93	43.3	17.1	2.74
23200	42.5	16.1	2.46	43.7	16.4	2.7
23300	43	16.8	2.54	43.6	16.9	2.44
23400	42.8	16.9	2.48	43.8	17.4	2.63
23500	43.5	15.9	2.36	43.7	16.3	2.41
23600	43.1	17.2	2.42	43.9	17.4	2.73
23700	43.5	16.8	2.54	43.8	17.4	2.77
23800	43.2	16.9	2.4	44	17.2	2.77
23900	43.6	17.1	2.76	43.7	17.7	2.83
24000	43.3	16.2	2.73	43.5	17.3	3.11
24100	43.6	17.2	2.96	43.1	18.1	2.8
24200	43.5	16.8	3.02	43.6	17.6	3.07
24300	43.7	16.3	3.09	43.7	17.5	2.7
24400	43.5	17.2	3	43.9	18.2	2.73
24500	43.7	16.8	3.22	43.6	17.7	2.58
24600	43.7	18.1	2.92	43.6	18.2	2.69
24700	43.8	18.6	3.28	43.3	18.2	2.31
24800	43.6	19.1	3.03	43.6	17.6	2.64
24900	43.8	20.1	3.1	43.5	18.3	2.49
25000	43.5	19.4	2.96	43.6	17.5	2.42
25100	43.1	20.6	2.89	43.3	18	2.54
25200	42.7	21	2.74	43.5	18.8	2.41
25300	42.3	19.5	2.68	43.2	18.1	2.25
25400	42	21.4	2.48	43	19.6	2.56
25500	42.1	20.7	2.5	42.5	18.7	2.23
25600	41.7	21.4	2.19	42.3	19.8	2.1
25700	41.1	21.9	2.33	42	20.8	2.17
25800	39.8	22.6	2.07	41.8	20.2	1.73
25900	39.1	25	2.09	41.6	22.3	1.86
26000	38.9	23.6	2.22	41.1	22.7	1.97
26100	38.9	23.1	2.16	40.6	24.4	1.55
26200	38.3	24.8	2.02	40.2	24.6	1.48
26300	38.1	27.4	1.98	39.4	27	1.49
26400	38.2	23.8	1.68	38.8	26.4	1.23
26500	38	24	1.75	37.8	28.6	1.3

Comments:

T-Data information for the K-Band receiver (K#28) on Antenna 14.

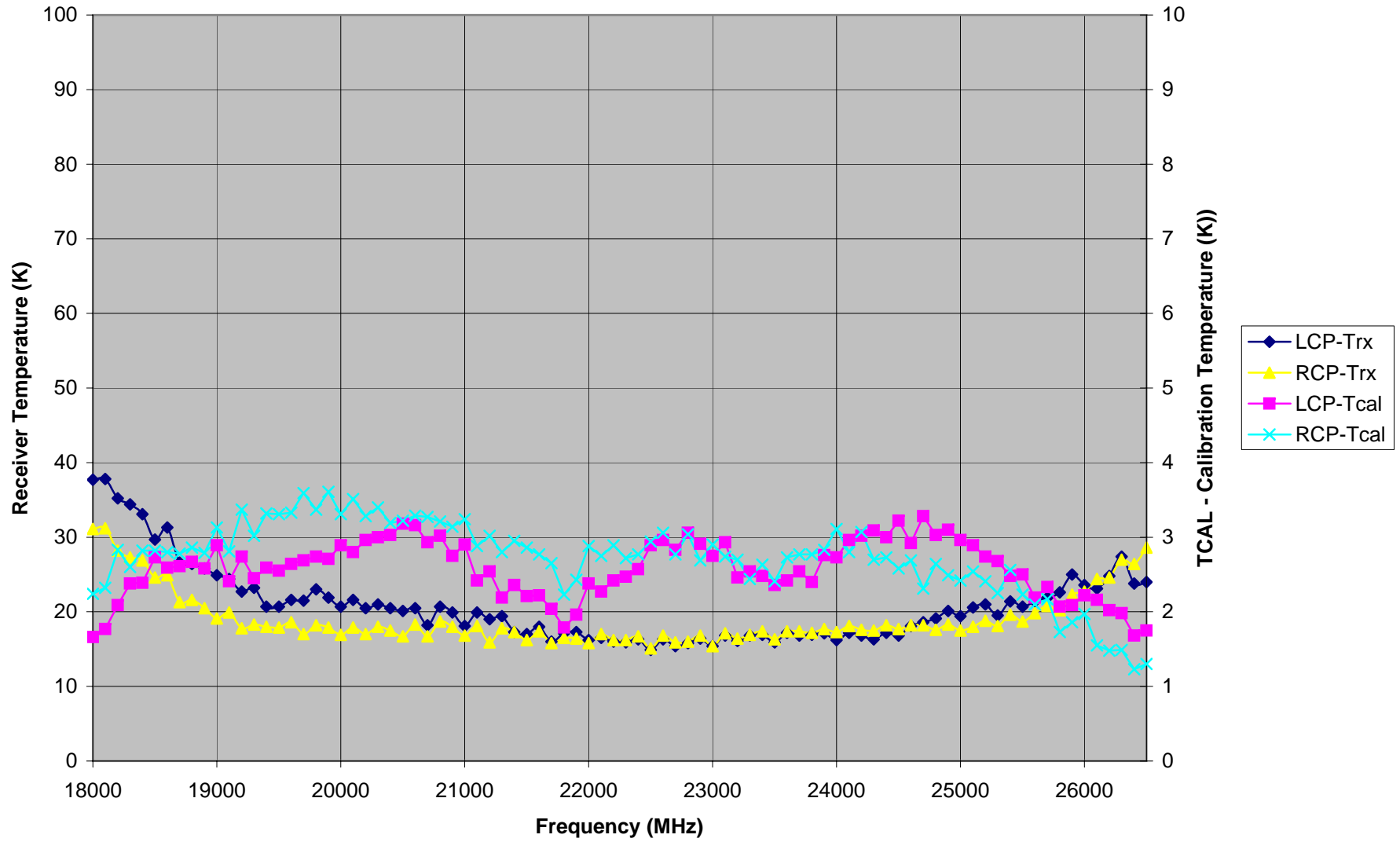
This is an "interim" receiver with an old style Card Cage.

It also has the awful 3T20 Goretex feed window which adds nearly 5K to the Trx.

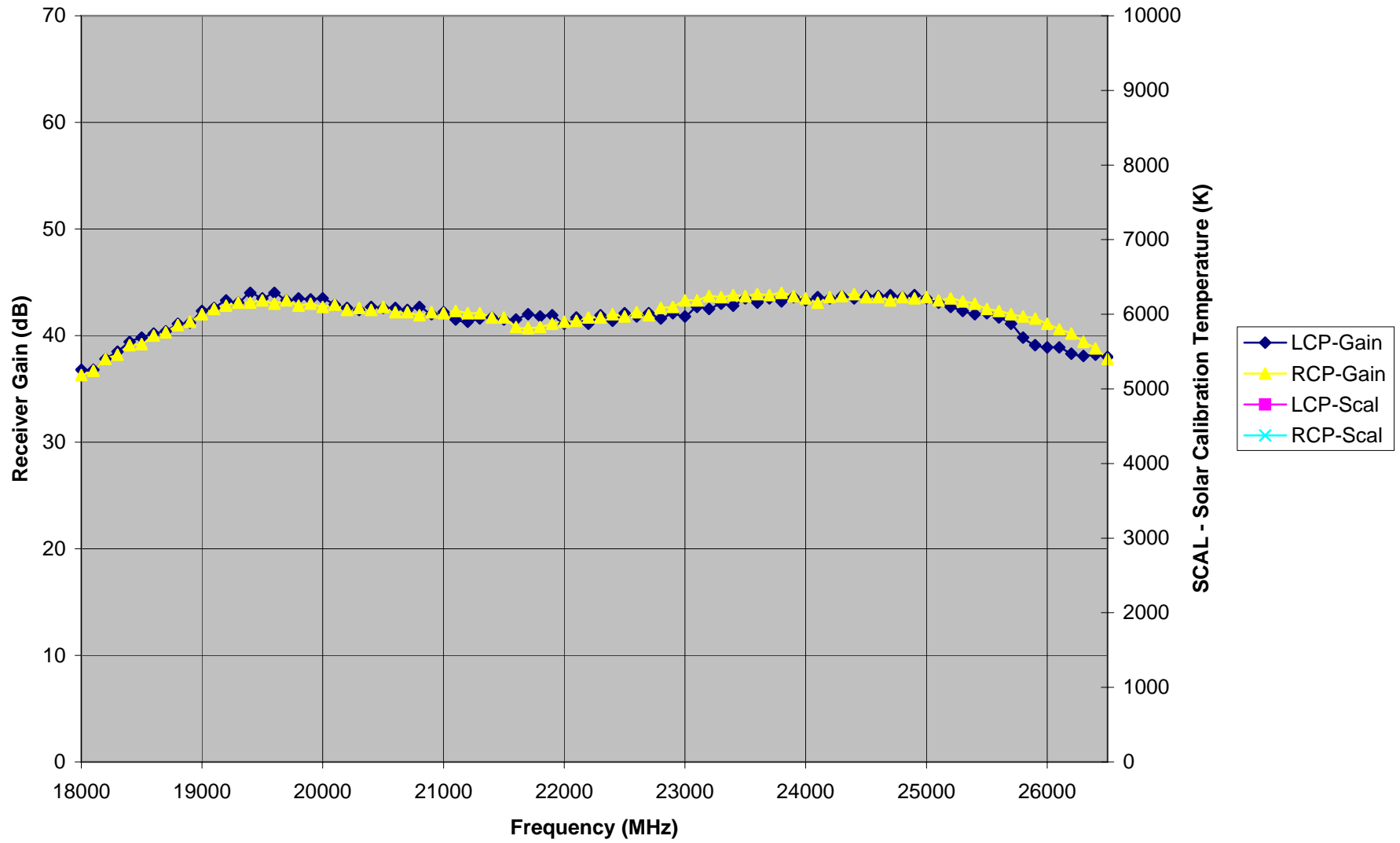
It will be replaced with the lower loss RA7906 radome material at a later date.

Note that the T-data is taken from the "Swept LO1" data set rather than the "Block Converter Mode" data (the Trx of the former is usually slightly better and this measurement scheme avoids the spikes in Trx arising from the SOIDA/SOS Rack during the 8-18 GHz IF baseband conversion).

K-Band : Receiver & Calibration Temperature Plots



K-Band : Receiver Gain & Solar Calibration Temperature Plots

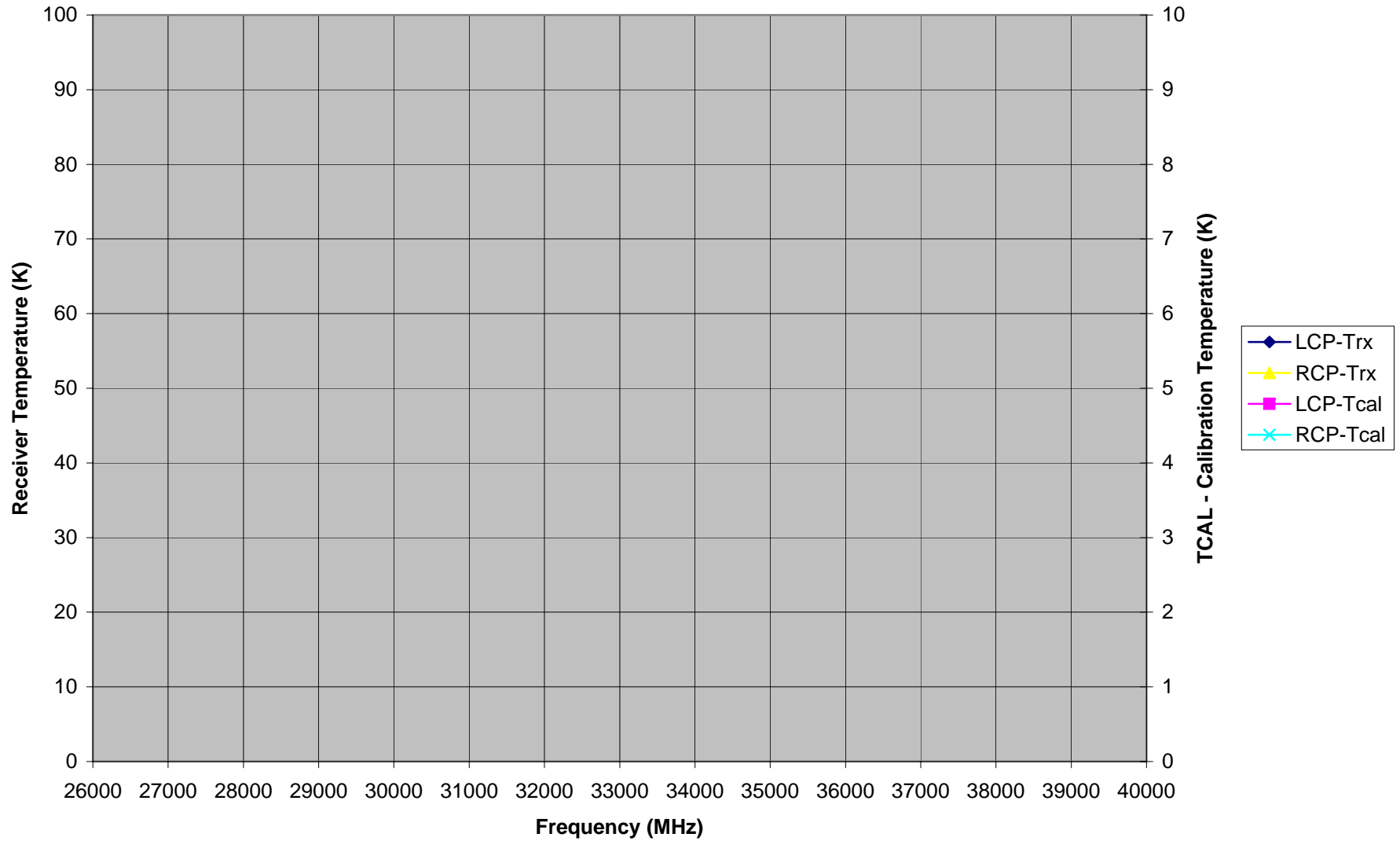


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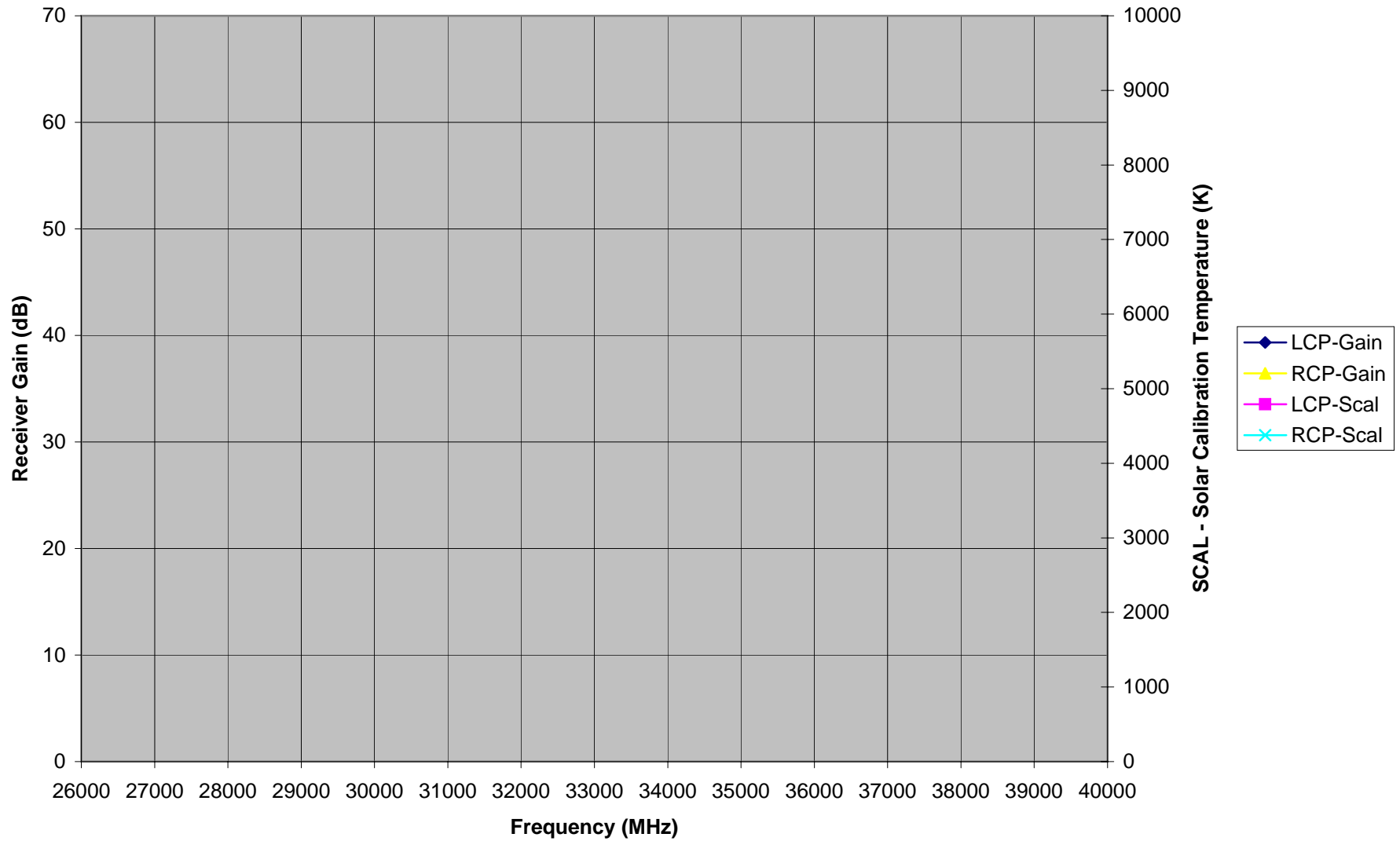
Comments:

T-Data information for the Ka-Band receiver (A#nn) on Antenna NN.

Ka-Band : Receiver & Calibration Temperature Plots



Ka-Band : Receiver Gain & Solar Calibration Temperature Plots



S/N = Q#30
 Type = Interim
 Date = 15 Mar 2005

Fsky (MHz)	Left Circular Polarization QL305128.639				Right Circular Polarization QR305128.579			
	LCP-Gain (dB)	LCP-Trx (K)	LCP-Tcal (K)	LCP-Scal (K)	RCP-Gain (dB)	RCP-Trx (K)	RCP-Tcal (K)	RCP-Scal (K)
40000	47	25.7	4.83		41.2	23.3	4.44	
40100	46.6	25.9	4.79		40.9	23.4	4.83	
40200	46	28.4	4.89		40.3	26	5.04	
40300	45.3	29.1	5.17		40.2	26.9	5.2	
40400	45.1	27.3	5.05		40.3	25.8	5.46	
40500	45.2	26	5.72		40.4	25.5	5.6	
40600	45.6	26.9	6.03		40.4	25.9	5.43	
40700	46.5	27.4	5.95		40.8	26	5.92	
40800	47.3	27.1	5.96		41.9	24.7	5.82	
40900	47.6	28.7	6.24		42.5	24.9	6.01	
41000	48	30.4	6.42		42.4	25.3	6.2	
41100	48	29.7	6.34		42.9	24.3	5.9	
41200	47.7	29.2	6.13		43.4	23.8	5.76	
41300	47.5	28.8	6.47		43.1	24.7	5.93	
41400	47.5	29	6.27		42.8	26	6.07	
41500	47.6	28.2	6.32		43.2	26	6.41	
41600	47.6	27.1	6.21		43.1	26.2	6.22	
41700	47.8	25.6	6.1		42.5	26.5	6.12	
41800	48.4	25.3	6.14		42.7	26.3	5.97	
41900	48.4	25.3	6.1		43.5	26.2	5.93	
42000	48.3	26.7	5.91		43.3	26.6	5.68	
42100	48.5	27.3	6.02		43.3	26.3	5.83	
42200	48.3	28.2	6.03		44.2	25.8	5.98	
42300	48.3	30.1	5.97		44.2	26.2	5.9	
42400	48.7	31.1	6.1		43.6	26.8	5.89	
42500	48.9	31.5	5.81		44.1	27.4	5.91	
42600	48.8	31.7	5.56		44.7	28.1	5.85	
42700	48.8	32.8	5.82		44	29.2	5.99	
42800	48.7	35.3	6.13		43.5	31.4	6	
42900	48.1	35.9	6.22		44	31.3	6.16	
43000	47.6	36.1	6.37		43.6	29.5	6.18	
43100	47.8	36.6	6.23		42.4	28.8	6.19	
43200	47.8	37.3	6.07		42.5	28.8	6.27	
43300	47.1	37.1	6.4		43.4	28.1	6.16	
43400	46.9	36.5	6.2		42.6	27.9	6.29	
43500	47.4	35.5	6.25		42	28.2	6.51	
43600	47.3	34.8	6.32		43.2	28.7	6.54	
43700	47.2	33.9	6.19		43.9	29.4	6.66	
43800	47.7	32.4	6.13		42.2	30.6	6.48	
43900	47.7	31.8	6.16		41.2	32.4	6.46	
44000	46.7	31.8	6.22		41.6	33.7	6.32	
44100	45.7	32.5	6.34		41.1	35.8	6.02	
44200	45	33.2	6.51		39.5	37.9	6.11	
44300	43.7	33.1	6.45		39.2	37.6	6.08	
44400	41.4	32.6	6.32		40.2	35.5	5.85	
44500	42.6	33.4	5.89		39.9	35.1	5.92	
44600	45	35.5	5.97		38.7	36.3	5.83	
44700	45.8	37.1	5.72		38.9	36.2	5.92	
44800	45.6	37	5.57		40.4	34.5	6.11	
44900	46.1	37.4	5.79		40.2	34	6.01	
45000	46.6	38.8	5.98		39.6	34.1	5.97	
45100	45.8	39.5	5.75		40.3	33.9	5.93	

45200	44.8	40.3	5.46	40.9	33.9	5.86
45300	44.8	41.4	5.49	40.3	34.4	5.87
45400	44.9	42.4	5.45	39.6	35.2	5.78
45500	44.2	42.5	5.41	39.4	35	5.62
45600	43.5	42.5	5.3	39.2	34.5	5.5
45700	43.6	41.6	5.25	38.2	33.7	5.52
45800	44.3	41.2	5.2	37.3	33.9	5.23
45900	44.1	41.2	5.05	37.1	34.4	5.25
46000	43.4	41.4	4.97	36.5	35.6	5.26
46100	43.8	41	4.91	35.7	37.2	5.36
46200	44.9	39.9	4.98	36	37.7	5.05
46300	45.1	38.4	4.88	36.7	37.8	4.76
46400	44.7	37.4	4.61	36.4	38.7	4.68
46500	45.4	37.5	4.46	36.2	40.2	4.56
46600	46.5	38.5	4.34	36.9	41.6	4.54
46700	46.1	38.7	4.27	37.4	42.5	4.39
46800	44.9	38.5	3.89	37.3	42.1	4.21
46900	44.5	38.6	3.77	37.6	41	3.94
47000	44.6	38.6	3.8	38.1	40.2	3.95
47100	44.2	39.6	3.89	37.8	40.3	3.95
47200	42.7	41.1	3.96	36.6	40.2	4.09
47300	41.7	41.5	4.27	35.9	38.9	4.43
47400	42	41.1	4.52	36.2	37	4.87
47500	42	41.5	4.7	36.3	35.5	5.09
47600	39.9	42.7	4.81	34.9	34.5	5.48
47700	38.9	42.9	5.19	33.7	33.9	5.79
47800	40.3	42.5	5.64	34.2	34	5.93
47900	41	42.3	5.93	35	33.9	5.87
48000	39.4	41.9	6.1	33.4	33.8	6.15
48100	39.1	41.9	6.31	32.4	34.2	6.29
48200	40.5	41.5	6.49	33.2	34.3	6.3
48300	40	41	6.62	34.3	33.6	6.23
48400	37	44.1	6.71	32	34.5	5.95
48500	36	45.9	6.92	30.7	35.7	5.7
48600	37.9	43.9	6.87	31.2	36.7	5.92
48700	38.4	41.8	6.92	31.3	37.4	6.07
48800	36.8	41.8	6.56	30.1	38	5.96
48900	36.9	40.6	6.3	30.3	37.8	6.05
49000	38.5	39.6	6.07	31.1	37.8	5.97
49100	38.7	40.8	6.09	31.4	38.3	6.2
49200	36.5	43.6	6.02	31.8	37.5	6.21
49300	35.5	45.7	5.96	32.2	36.6	6.46
49400	36.1	47.3	6.37	32.5	35.9	6.59
49500	35.8	48.5	6.71	33.3	34.8	6.44
49600	34.9	49.2	6.5	33.7	34	6.46
49700	35.4	48.1	6.67	32.7	34.2	6.4
49800	36.2	46	6.82	31.8	33.8	6.57
49900	36.6	44.3	6.7	31.9	33	6.52
50000	36.3	44	6.76	31.7	33.5	6.41

Comments:

T-Data information for the Q-Band receiver (Q#30) on Antenna 14.

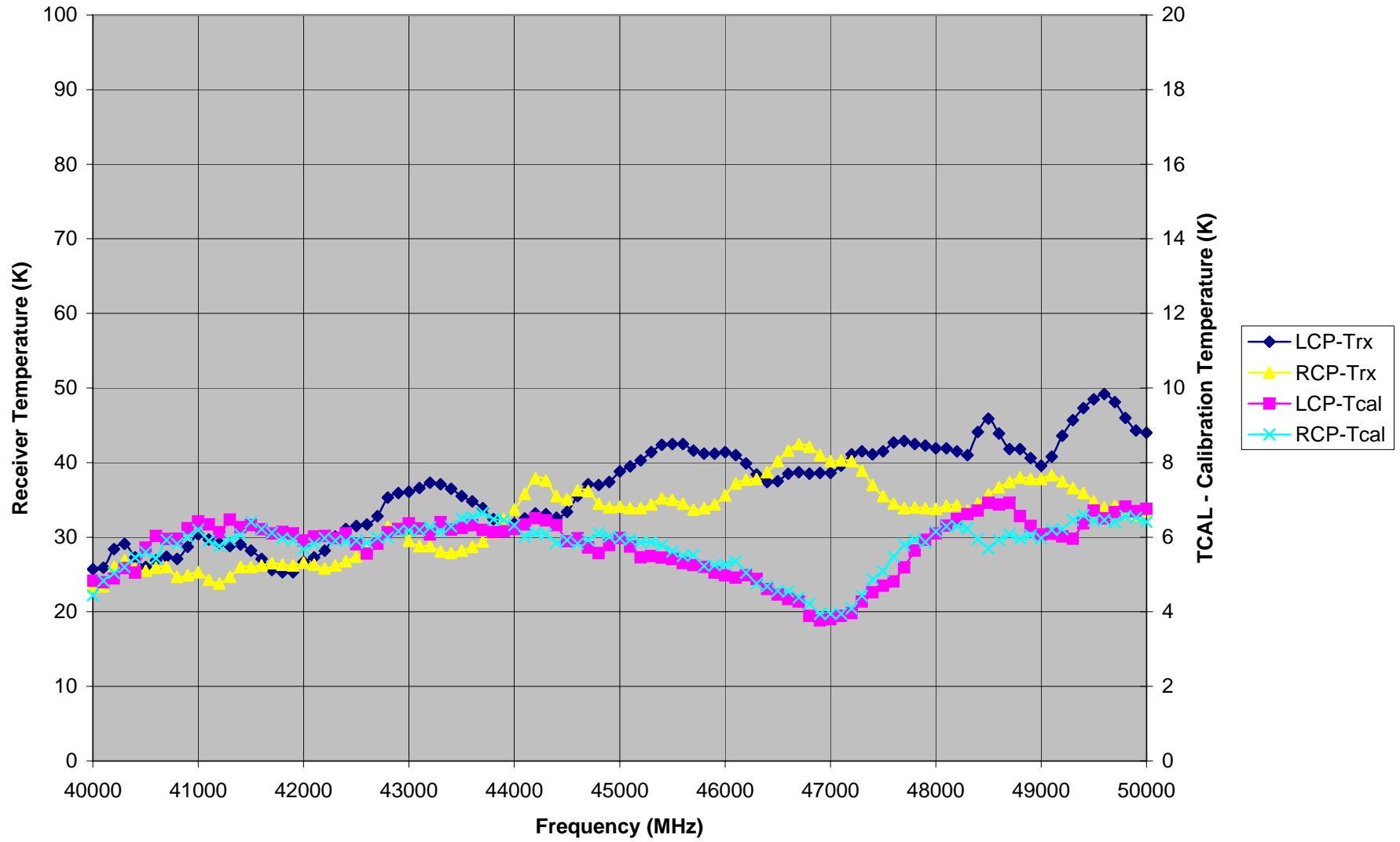
This is an "interim" receiver with an old style Card Cage. It is the first Q-Band to have an RF post-amp (rather than an IFpost-amp) as well as to utilize the new EVLA Block Converter mode.

It was originally on EVLA Antenna 13 but later removed to have the first of the new LO limiting amps installed.

It was then placed on Antenna 14 which was further along in its EVLA outfitting.

Note that the T-data is taken from the "Swept LO1" data set rather than the "Block Converter Mode" data (the Trx of the former is usually slightly better and this measurement scheme avoids the spikes in Trx arising from the SOIDA/SOS Rack during the 8-18 GHz IF baseband conversion).

Q-Band : Receiver & Calibration Temperature Plots



Q-Band : Receiver Gain & Solar Calibration Temperature Plots

