

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4482 - L2 Version 001
Chandra X-Ray Center

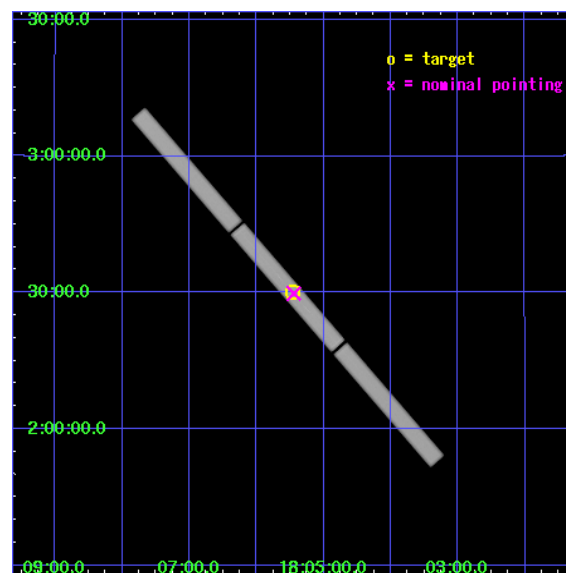
L2 Processing Date : Apr 28 2006

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1 Front

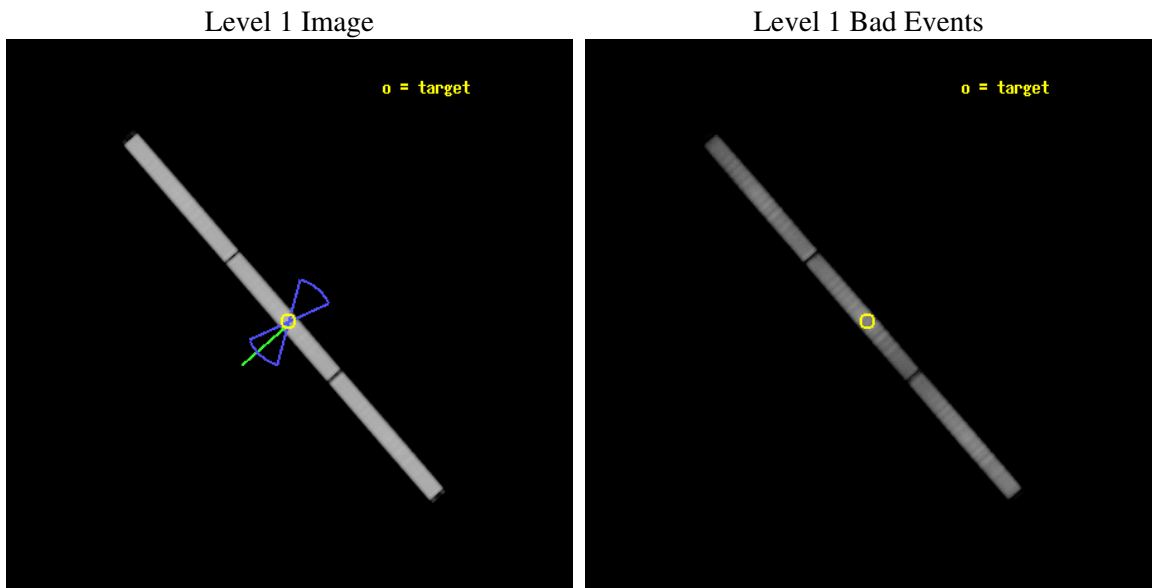
seq_num	200251
obs_id	4482
title	Resolving the 36 Oph and 70 Oph Binary Systems and Correlating Their Coronal Properties with Their Winds
observer	Dr. Brian Wood
object	70 Oph
ra_targ	271.36375
dec_targ	2.500111
ra_nom	271.36057174045
dec_nom	2.4966784086829
roll_nom	228.78774384998
revision	2
ontime	78940.634755909
livetime	78305.961931397
l2events	4425074



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.1
date	2006-04-28T06:17:17
revision	2

sched_exp_time	78771.000000
ontime	78940.634755909
l1events	6378783

2.1.3 Events

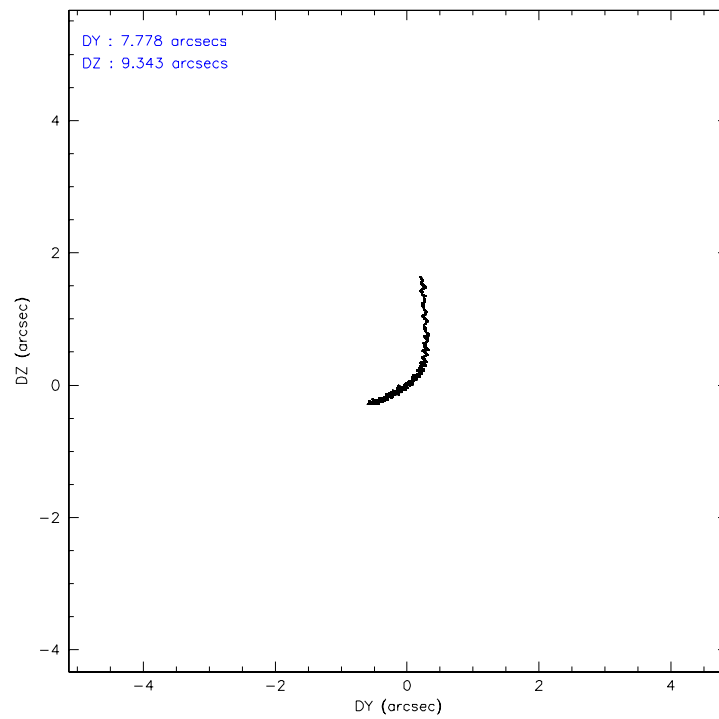
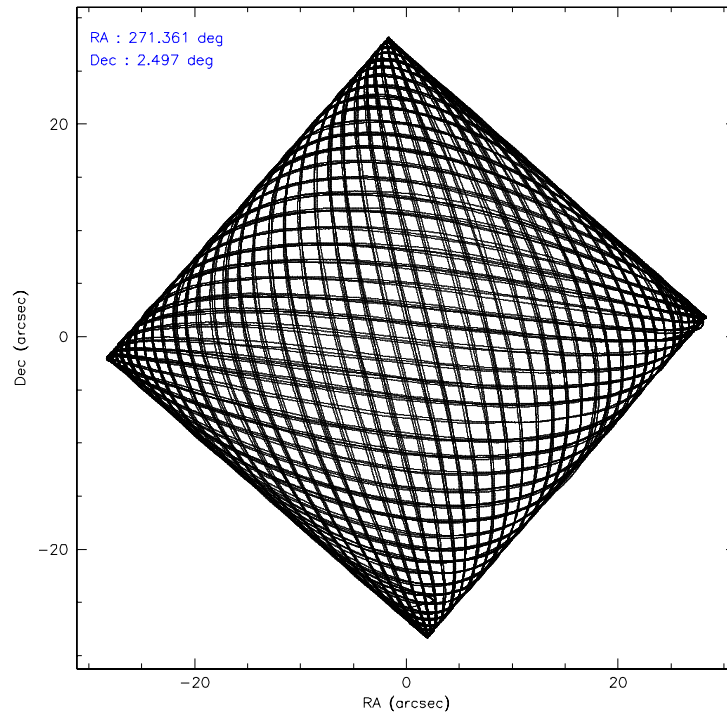
Level 1 Events

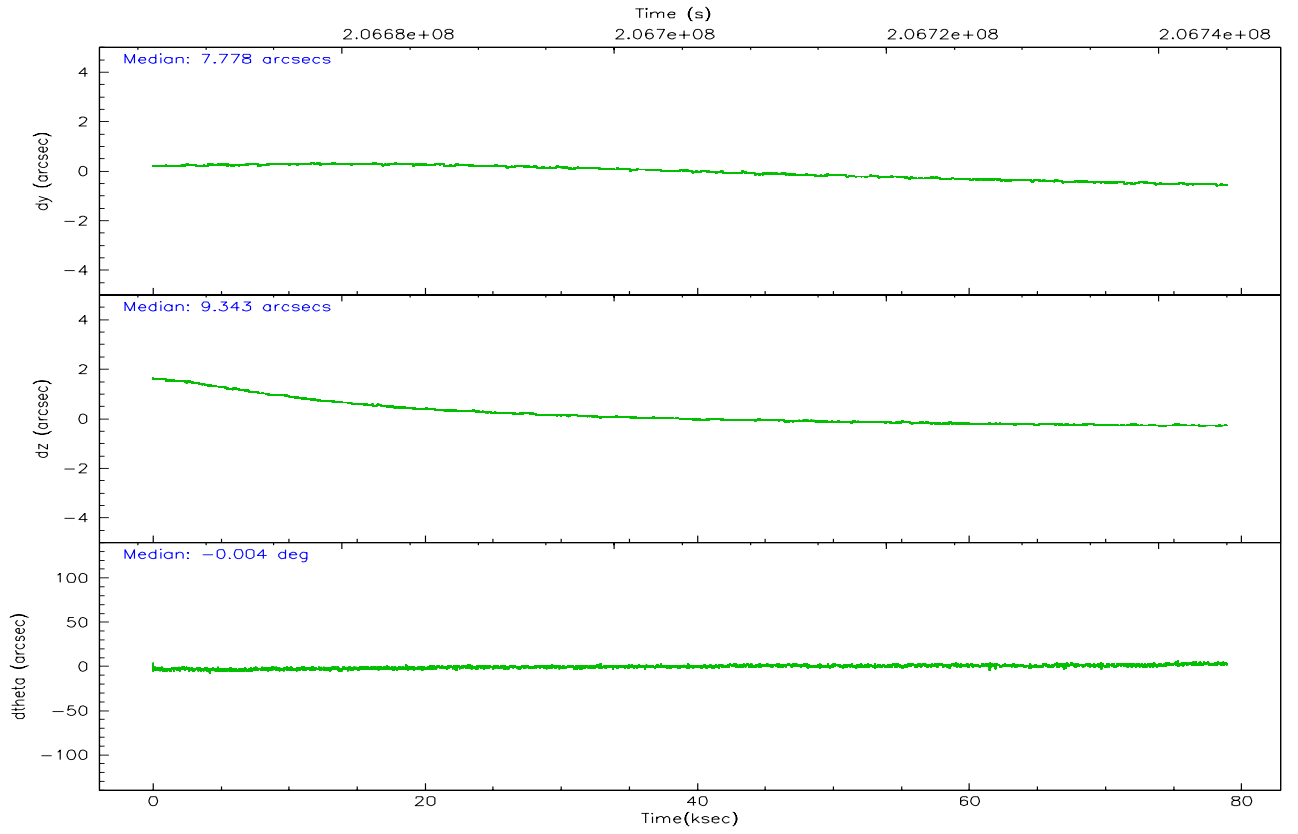
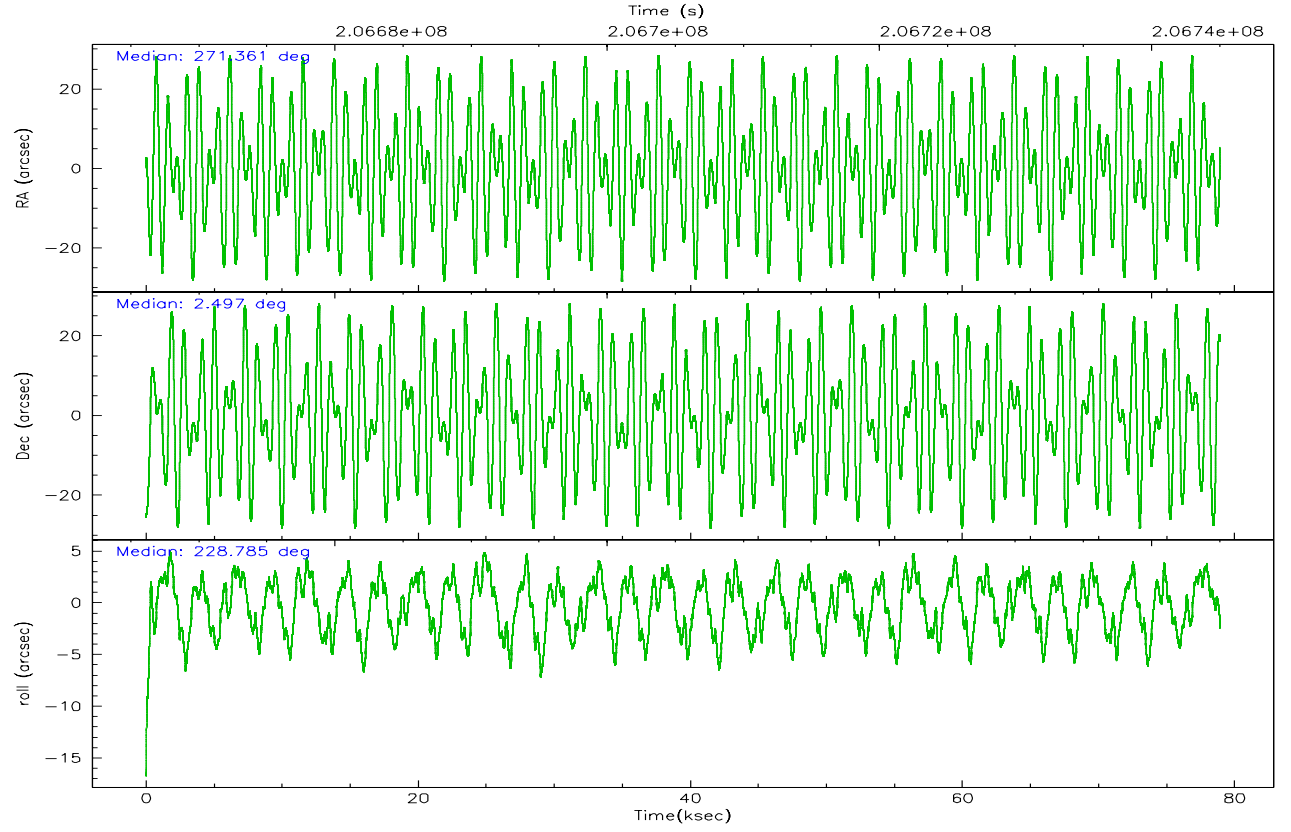
	segment 1	segment 2	segment 3
level 1 events	2152556	2110113	2116114
rejected events	415269	454740	507608
rejected %	19%	21%	23%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	271.364728	271.3605717404504			
Pointing Dec	2.524977	2.496678408682855			
Pointing Roll	228.720221	228.7877438499804			
Roll angle	40.000000	40.000000			
Roll tolerance	25.000000	25.000000			
Roll constraint allows 180D rotation	Y	Y			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.4635187648994			
SIM translation stage offset (mm)	0	-0.007540371344731511			
Observation start time	206666280.184000	206665204.97412			
Observation start date	2004-07-19T23:16:56	2004-07-19T23:00:04			
Observation end time	206745051.184000	206745751.5277			
Observation end date	2004-07-20T21:09:47	2004-07-20T21:22:31			

2.3 Aspect



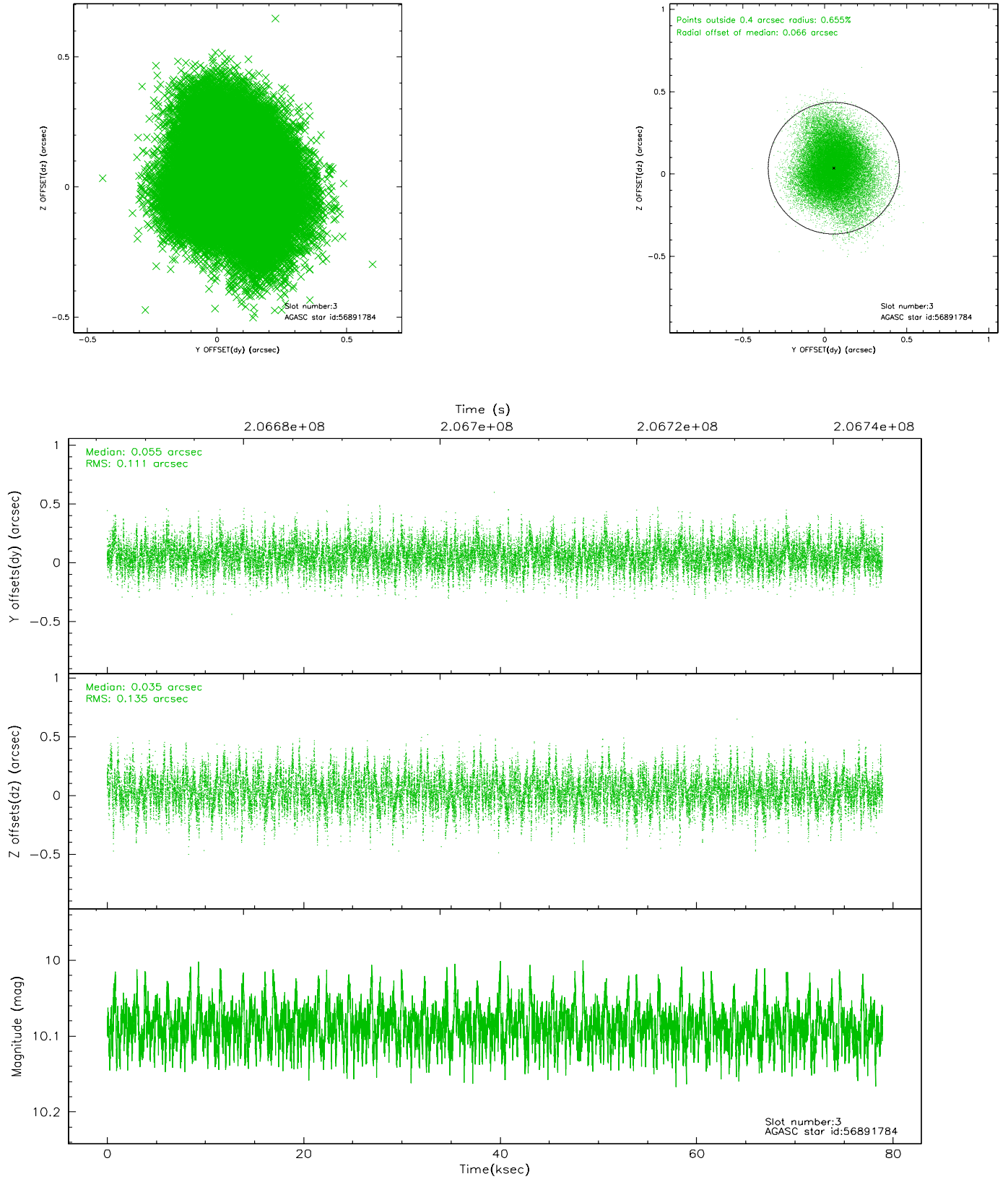


Slot Statistics

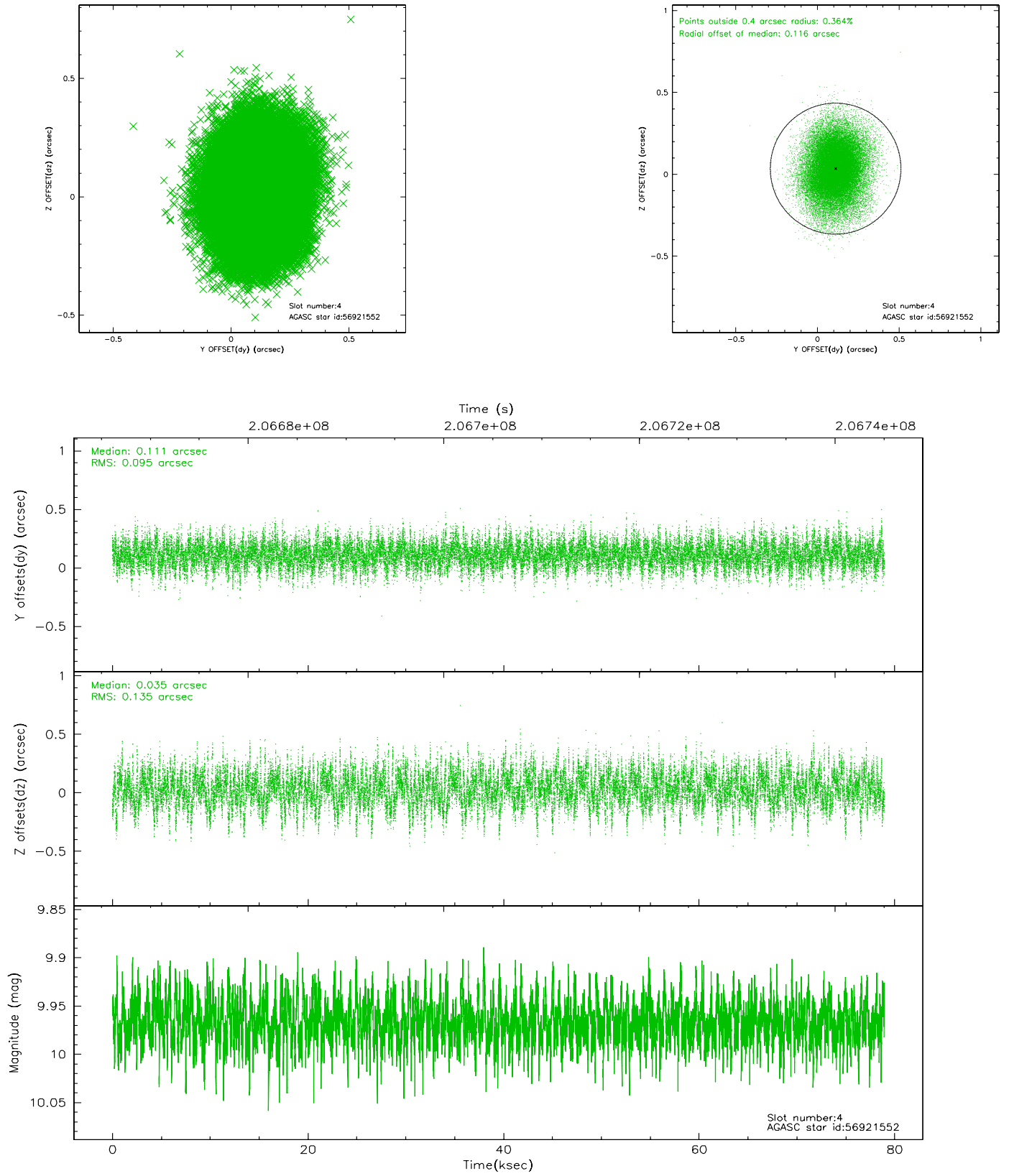
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	19254	0.098	-0.133	0.007	0.012	0.000000	0.000000	-1161.93	-458.14
1	FID	HRC-S-2	6.99	19254	0.097	-0.098	0.020	0.051	0.000000	0.000000	1237.69	-450.76
2	FID	HRC-S-4	6.96	19254	0.207	-0.072	0.019	0.050	0.000000	0.000000	1236.50	574.00
3	GUIDE	56891784	10.09	38471	0.055	0.035	0.185	0.309	271.614285	3.109858	-2173.93	-714.93
4	GUIDE	56921552	9.97	38451	0.111	0.035	0.173	0.295	271.339827	2.062406	1310.92	1031.48
5	GUIDE	56923480	6.84	38507	-0.096	-0.015	0.071	0.120	271.448186	1.985601	1261.42	1506.99
6	GUIDE	56926856	6.61	38508	0.011	0.015	0.091	0.150	271.155660	1.918993	2135.84	874.22
7	GUIDE	56891296	9.85	38400	-0.095	-0.071	0.139	0.234	271.348171	3.413170	-2363.57	-2154.26

2.4 Star Slots

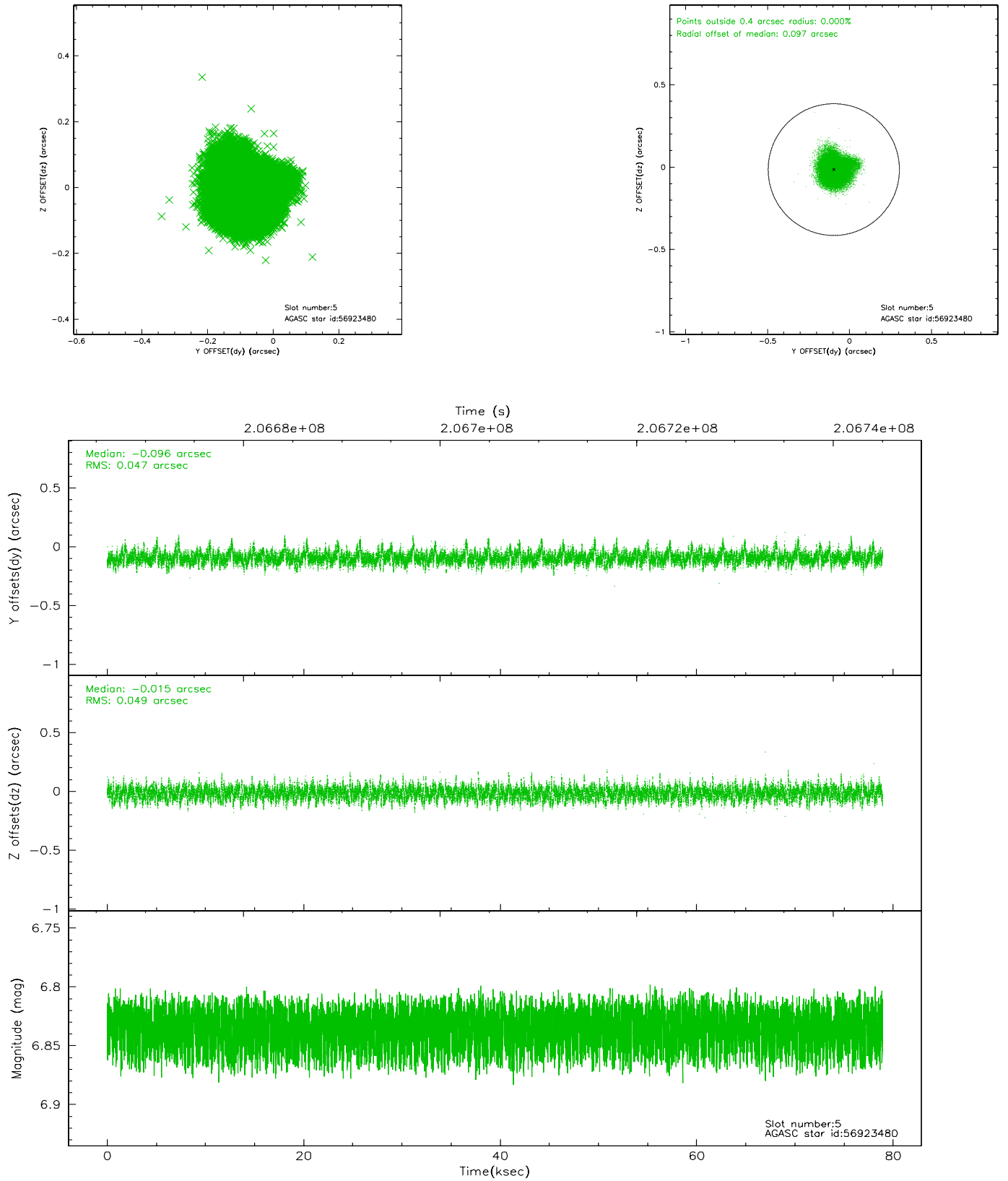
2.4.1 Slot 3



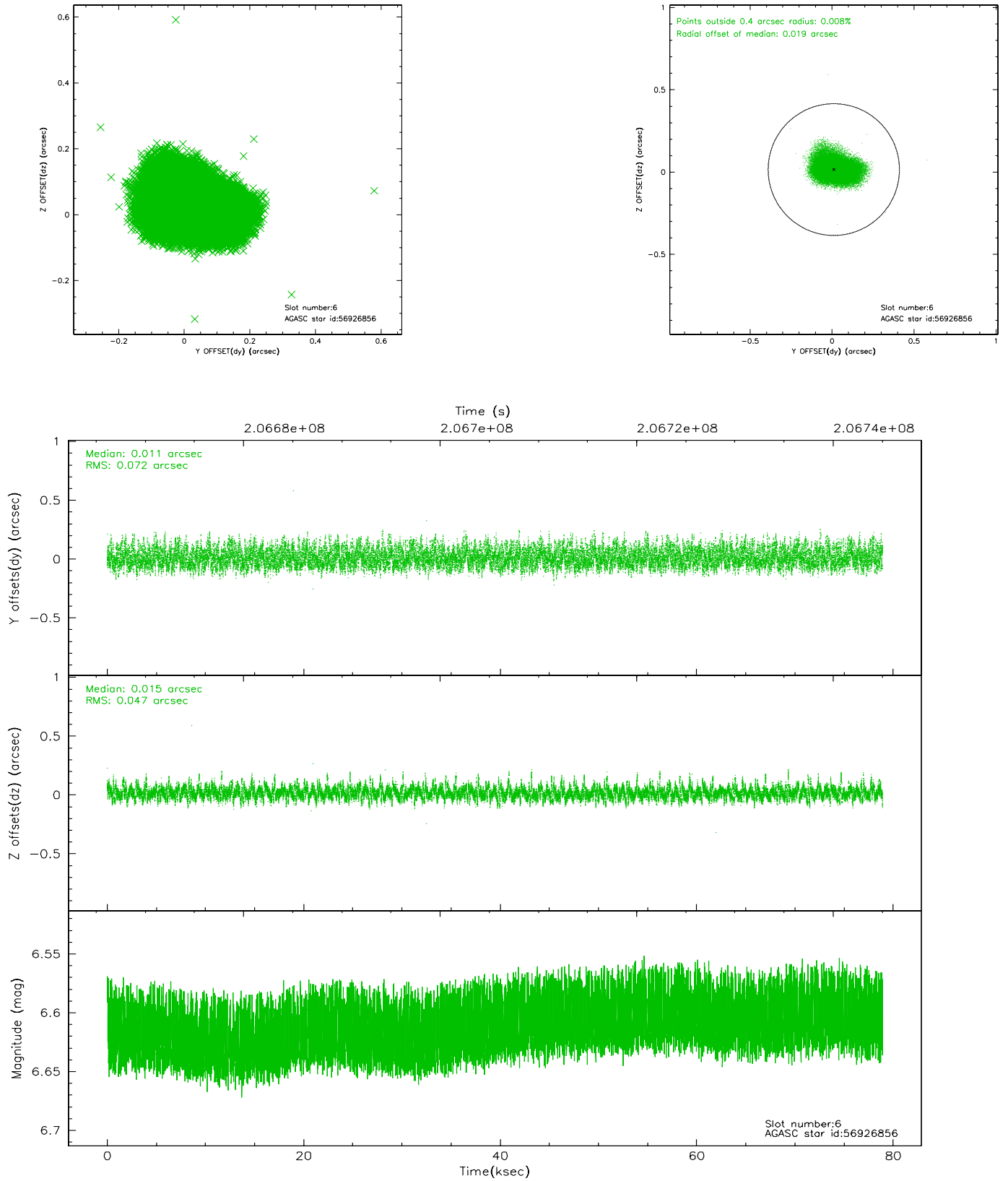
2.4.2 Slot 4



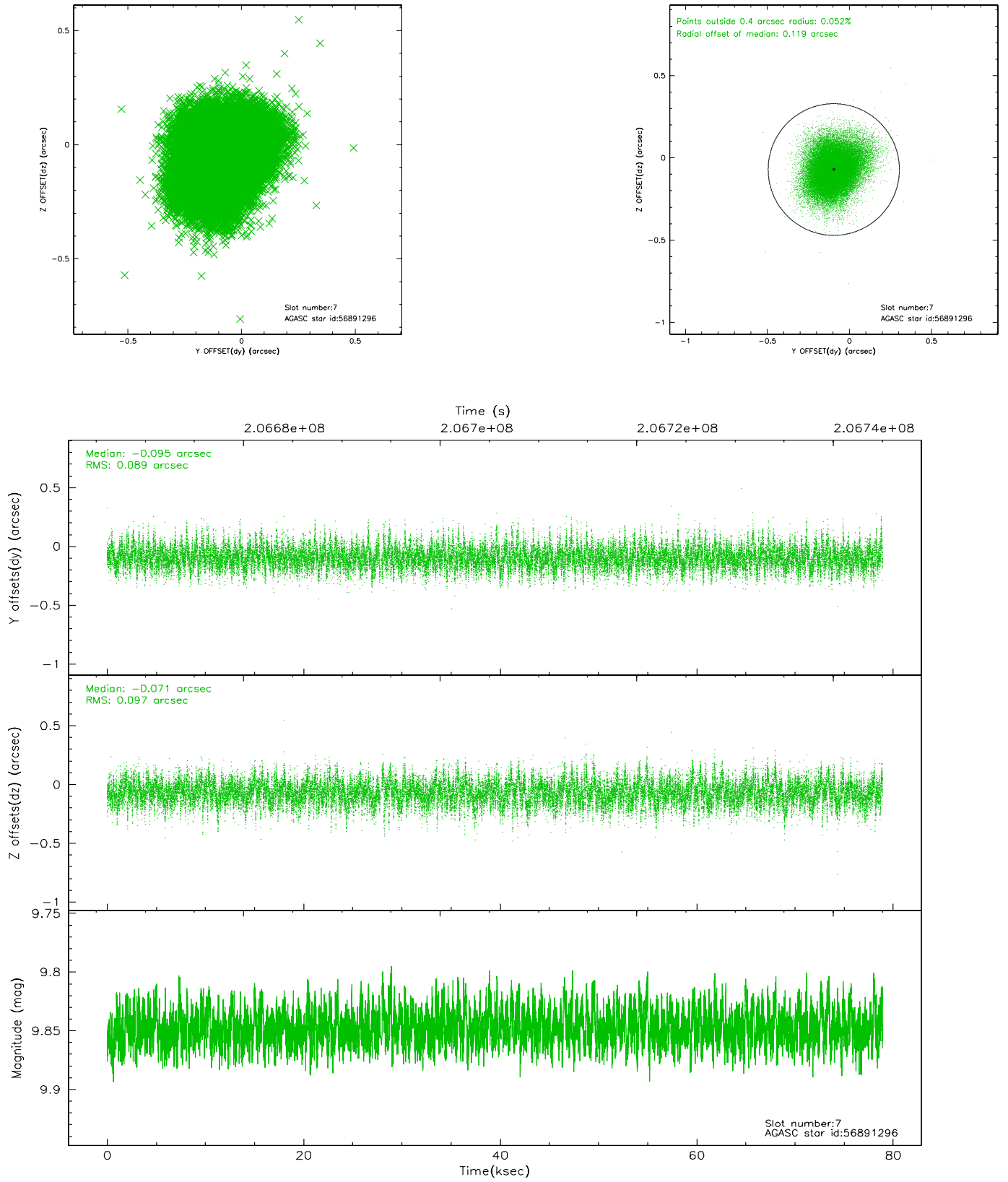
2.4.3 Slot 5



2.4.4 Slot 6

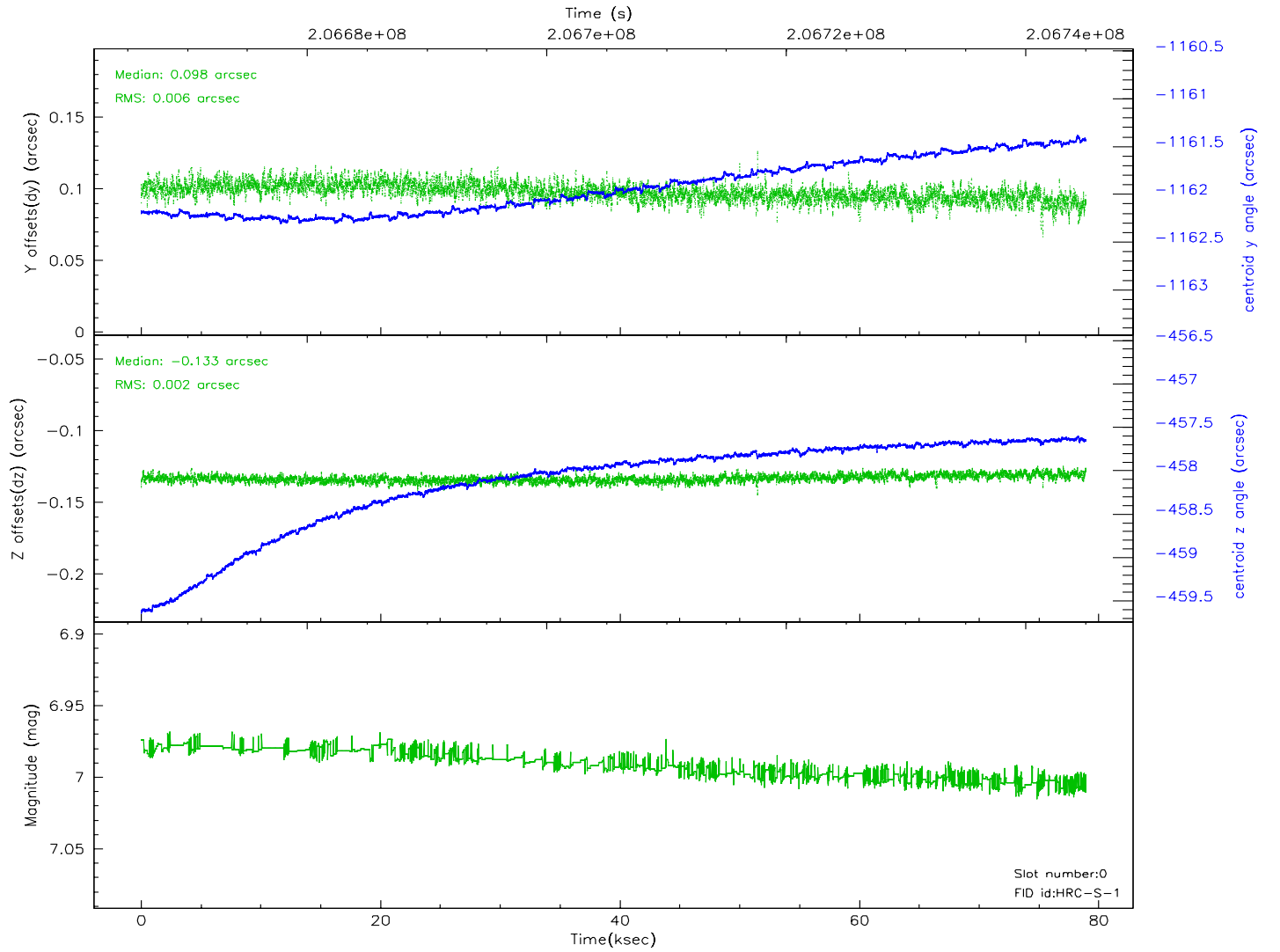
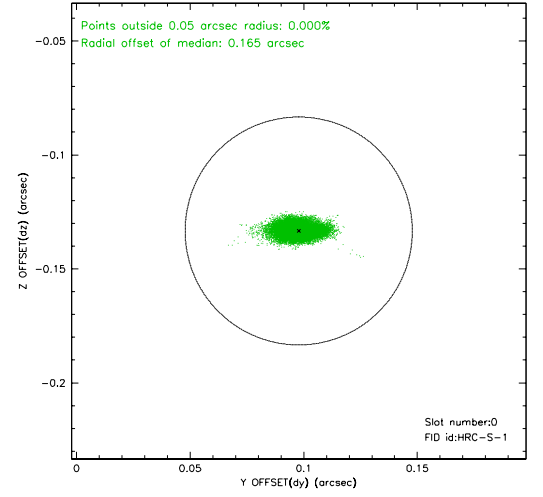
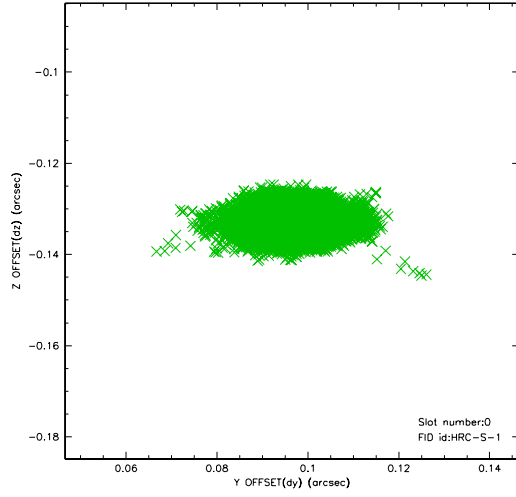


2.4.5 Slot 7

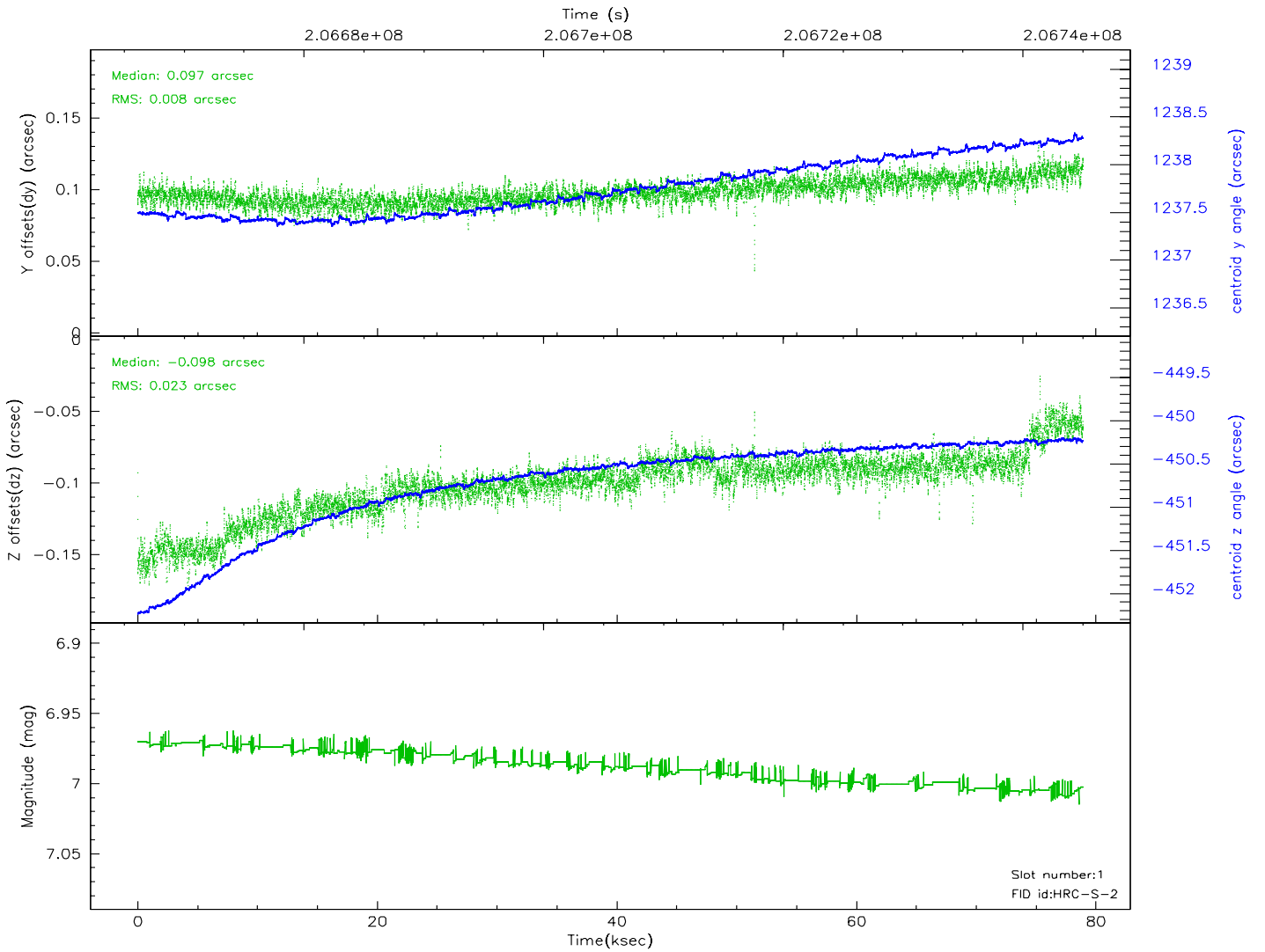
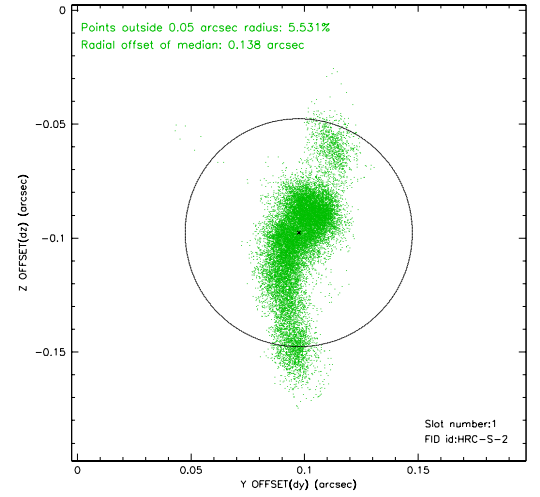
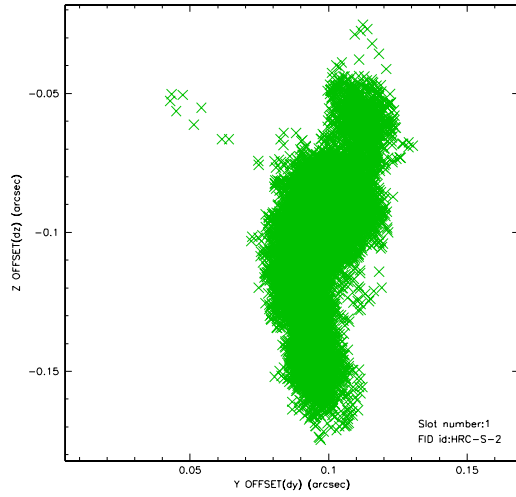


2.5 FID Slots

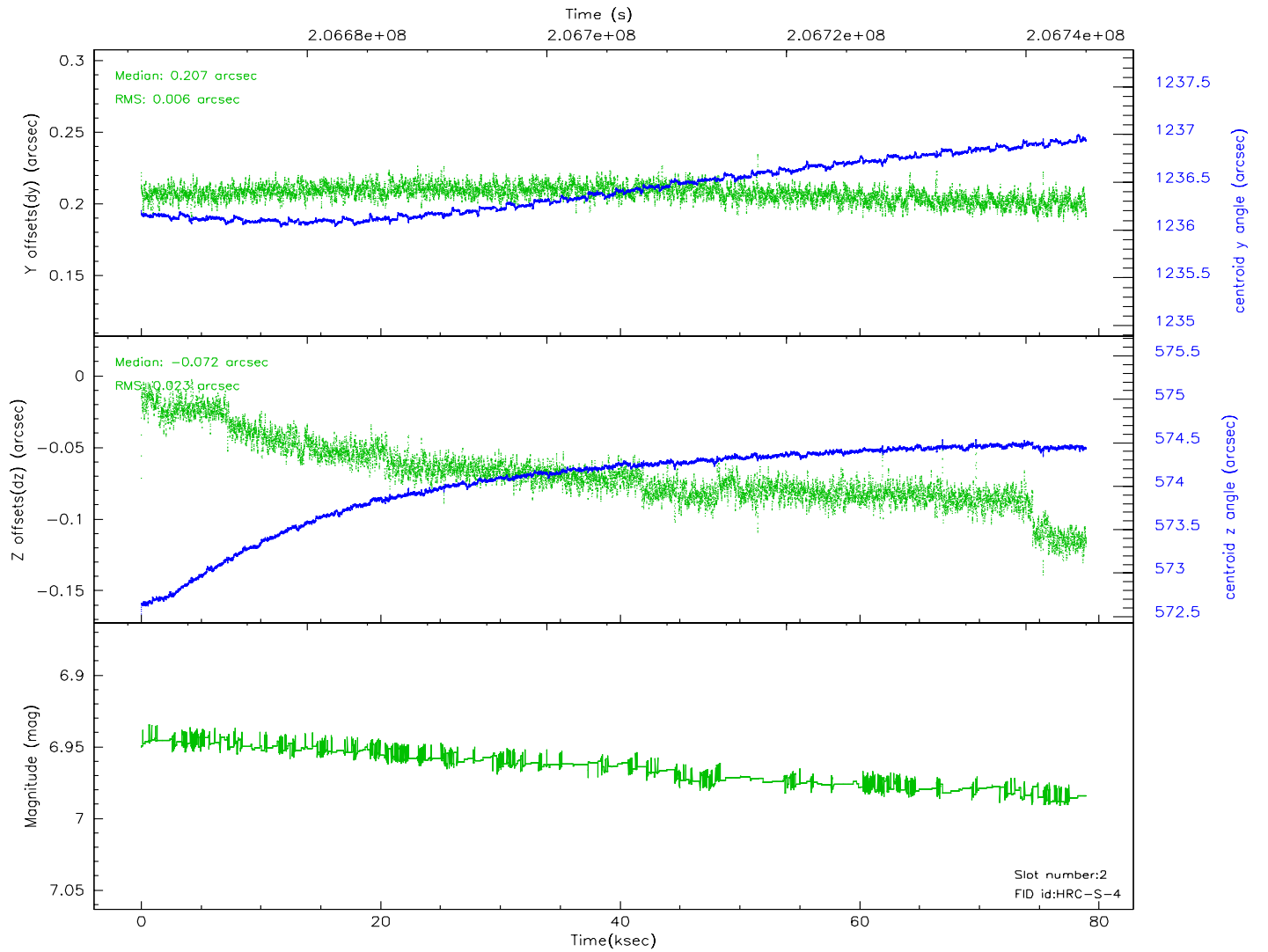
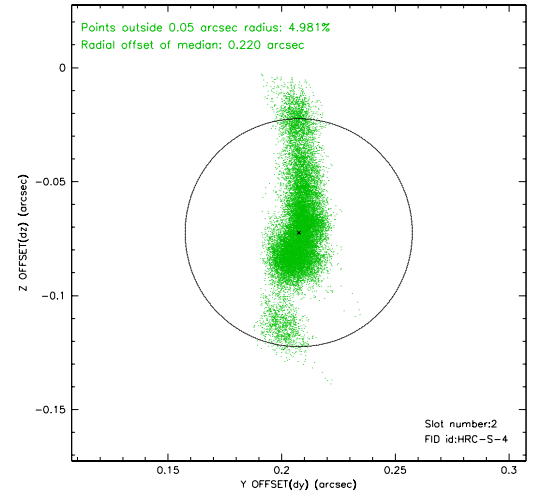
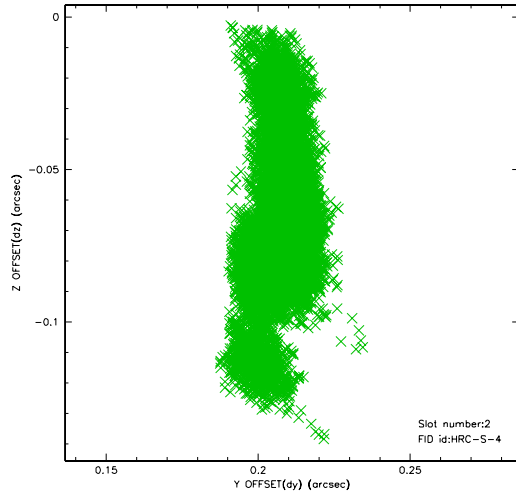
2.5.1 Slot 0



2.5.2 Slot 1

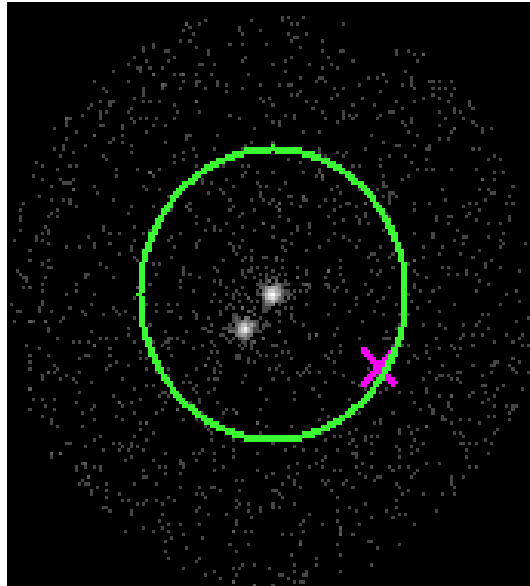


2.5.3 Slot 2



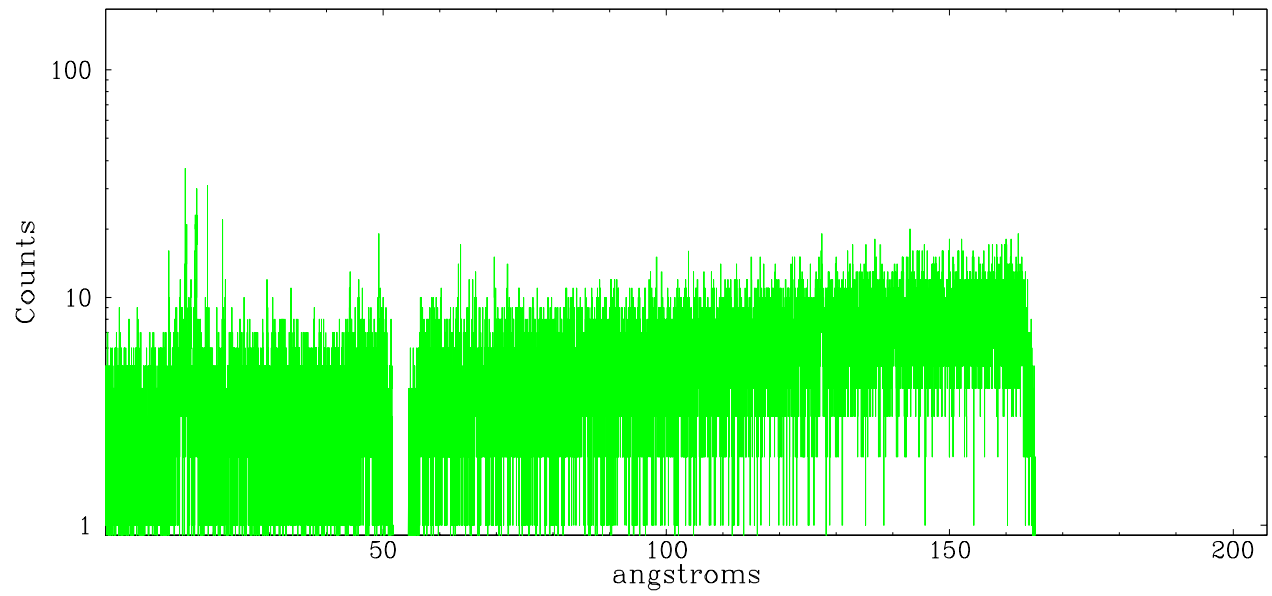
3 Gratings

3.1 LETG Arm

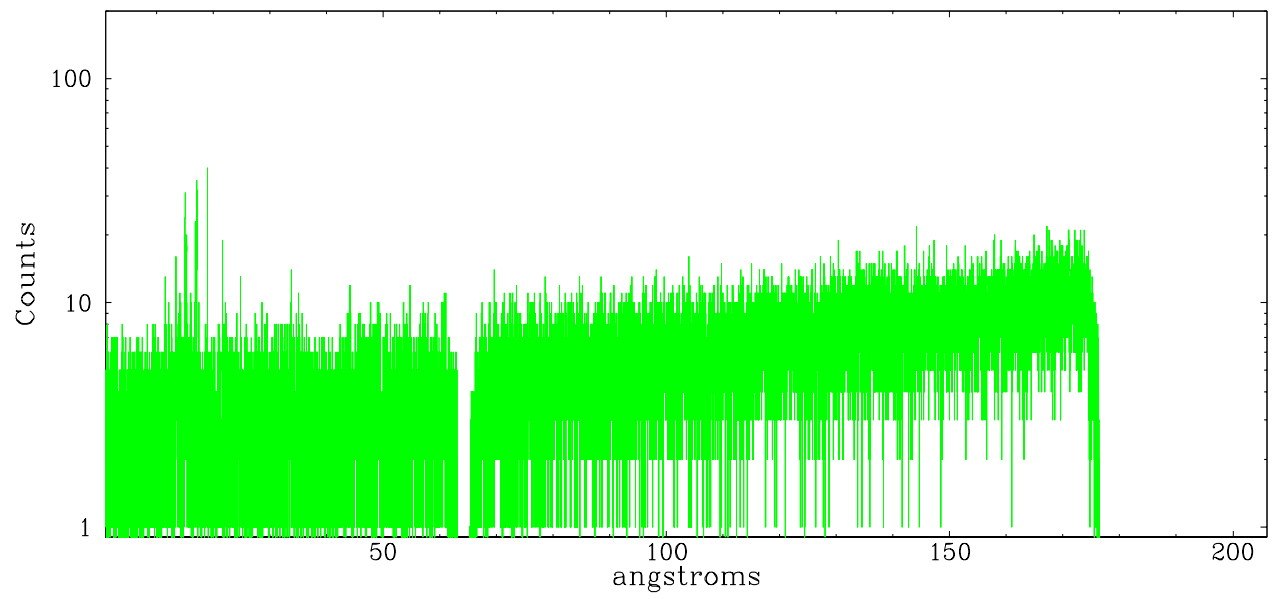


LETG Zero Order

leg order -1



leg order $+1$



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	78.94

A.2 Comments

Roll constraint met.

Both sources are within the zeroth order, and the spectrum will therefore contain contributions from both.

The keywords DTCOR, EXPOSURE, and LIVETIME in the Level 2 event file and the

keyword DTCOR in the Level 1 event file have been incorrectly determined due to a software bug. The correct value of DTCOR can be found in the file DTFSTATS file that can be obtained by downloading the Secondary Data Products. In most cases, the difference between the correct DTCOR value and the incorrect DTCOR value in the Level 2 event file is very small and does not affect the data analysis. However, there are cases of significant differences and the user is advised to use the DTCOR in the DTFSTATS file for analysis. Corrected data products will be made available in the archive as soon as feasible.