

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8937 - L2 Version 3
Chandra X-Ray Center

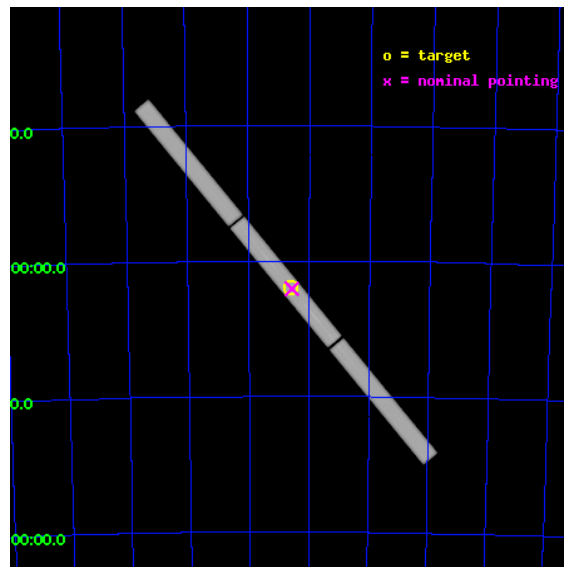
L2 Processing Date : Aug 12 2012

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1 Front

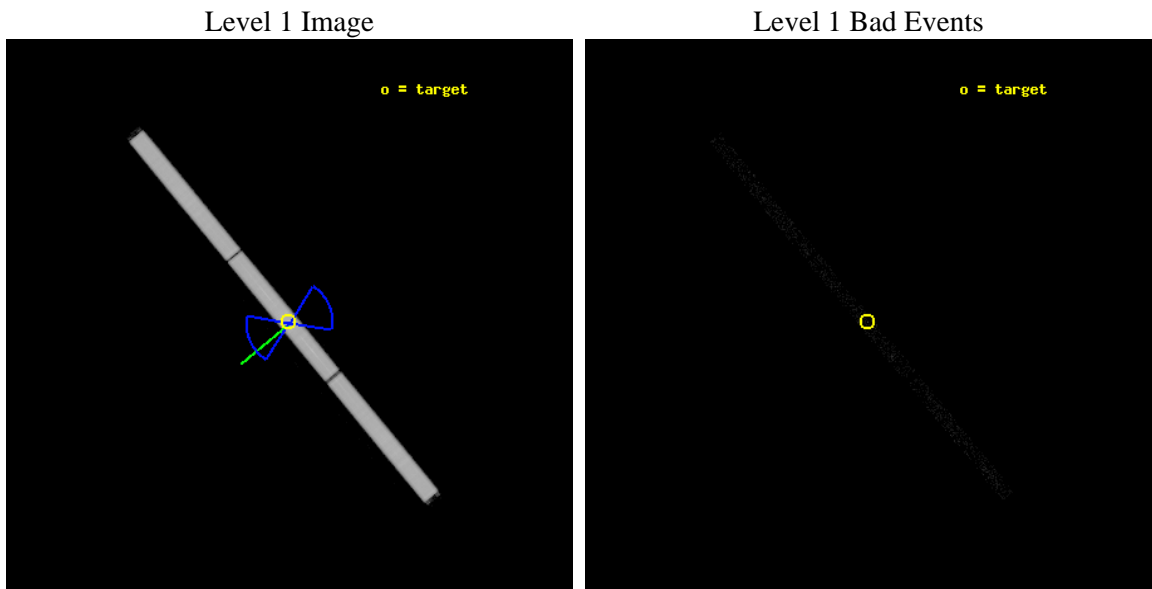
seq_num	200518	Sequence number
obs_id	8937	Observation id
title	Can different elements move with different velocities in a radiatively driven stellar wind?	Proposal title
observer	Dr. Lidia Oskinova	Principal investigator
object	HD 108248	Source name
ra_targ	186.649583	Observer's specified target RA [deg]
dec_targ	-63.099028	Observer's specified target Dec [deg]
ra_nom	186.64275457717	Nominal RA [deg]
dec_nom	-63.102700281798	Nominal Dec [deg]
roll_nom	230.29842867394	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30181.126479328	[s]
livetime	29875.731178934	Ontime multiplied by DTCOR
l2events	2597432	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30181.126479328	[s]
caldbver	4.5.1.1	 	l1events	3469686	Number of level 1 events
date	2012-08-12T15:57:08	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

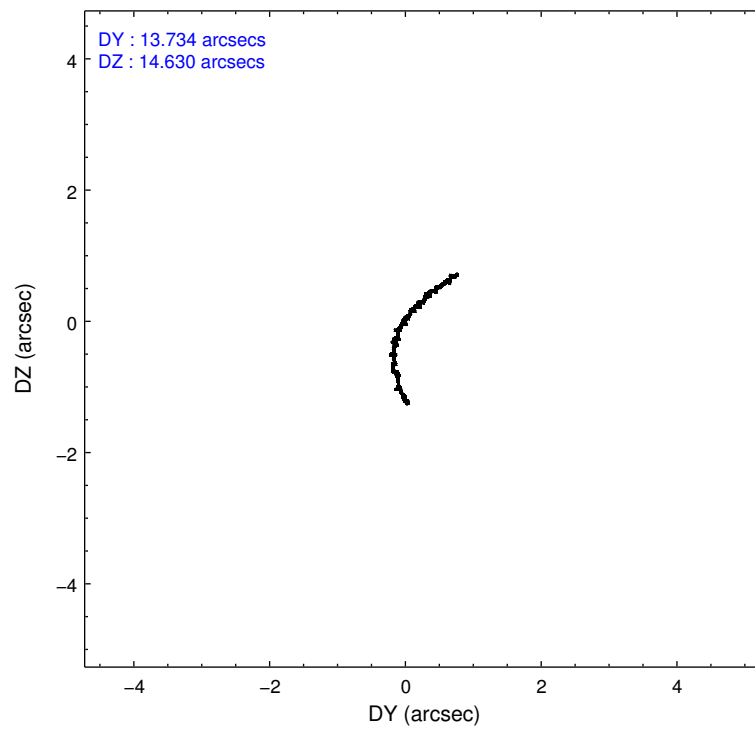
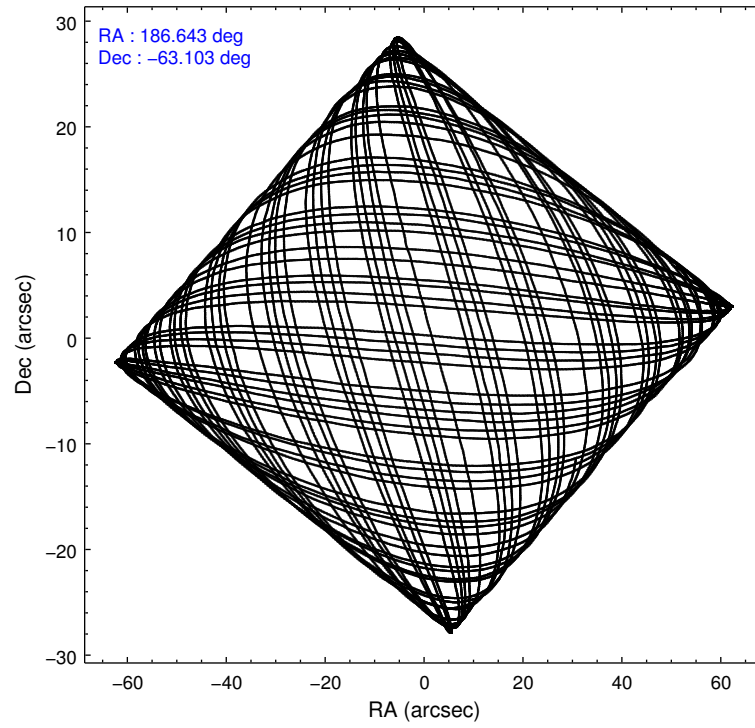
Level 1 Events

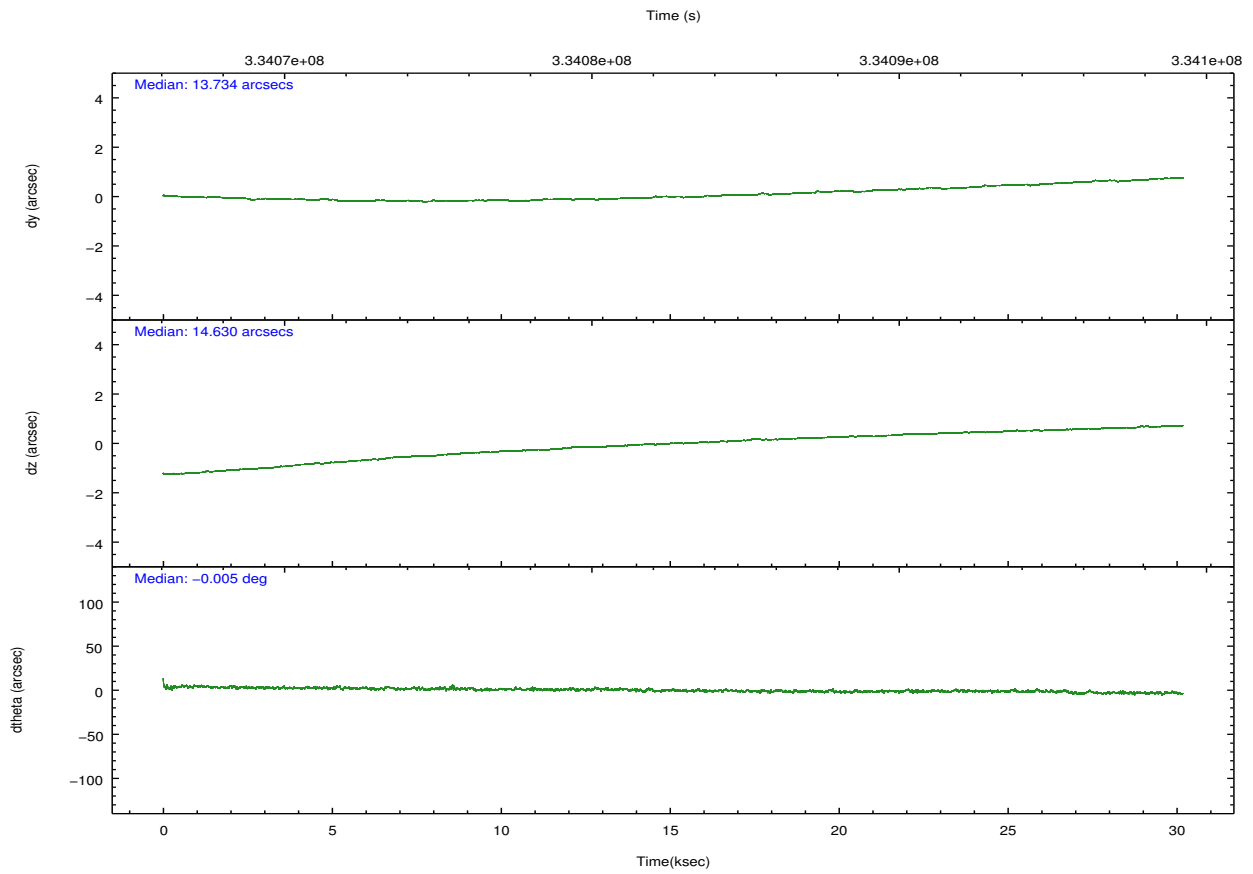
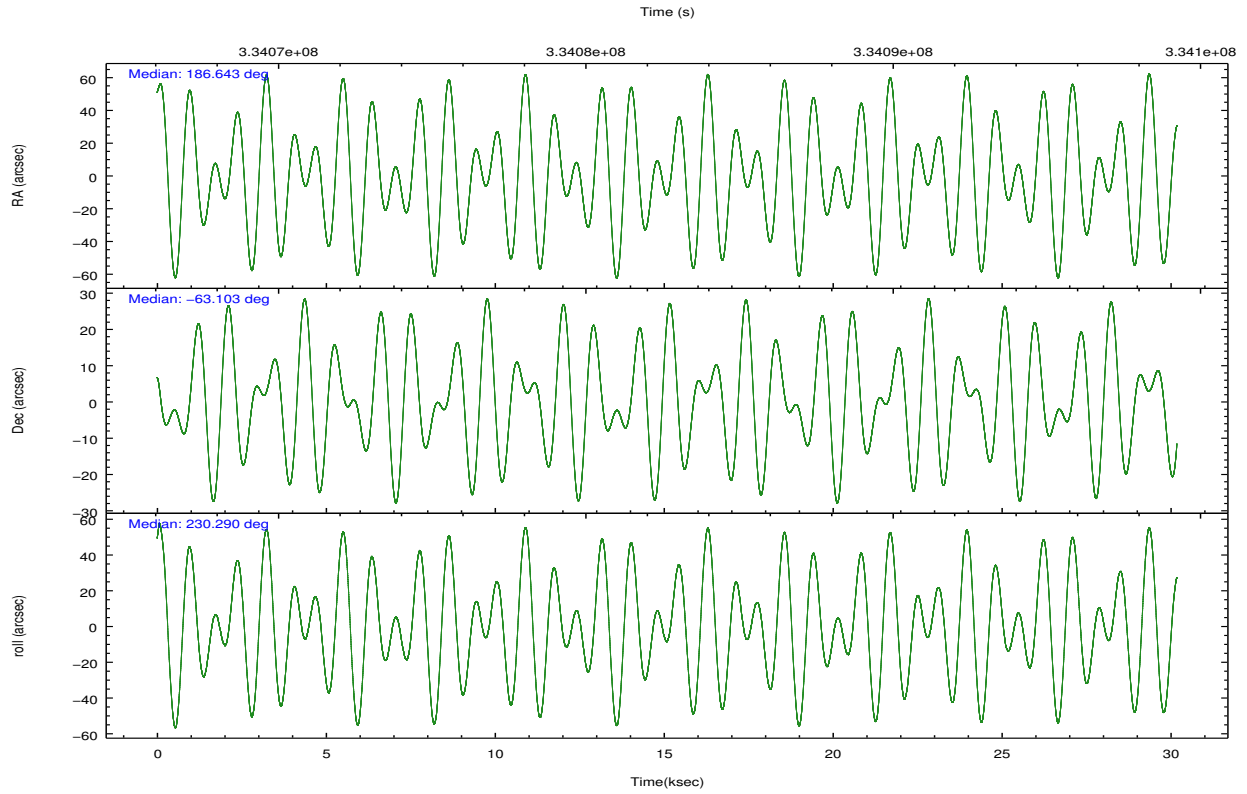
	segment 1	segment 2	segment 3
level 1 events	1145786	1167704	1156196
rejected events	33743	32945	33843
rejected %	2%	2%	2%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	186.650288	186.6427545771653			
[deg] Pointing Dec	-63.074151	-63.10270028179814			
[deg] Pointing Roll	230.237813	230.2984286739428			
[deg] Roll angle	66.000000	66.000000			
[deg] Roll tolerance	33.000000	33.000000			
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	334067726.184000	334066680.35564			
Observation start date	2008-08-02T12:34:21	2008-08-02T12:18:00			
[s] Observation end time (MET)	334097726.184000	334098491.7447			
Observation end date	2008-08-02T20:54:21	2008-08-02T21:08:11			

2.3 Aspect



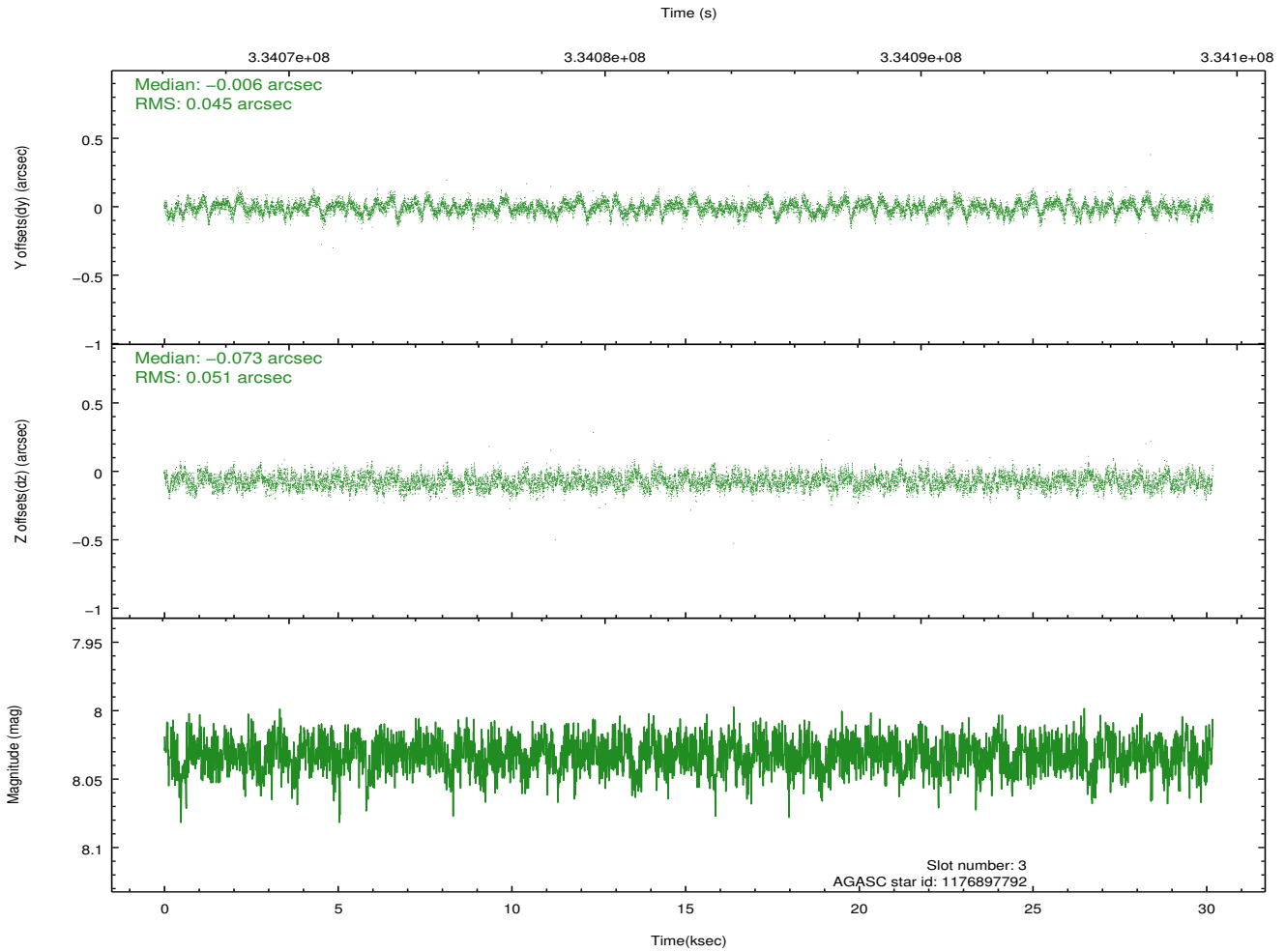
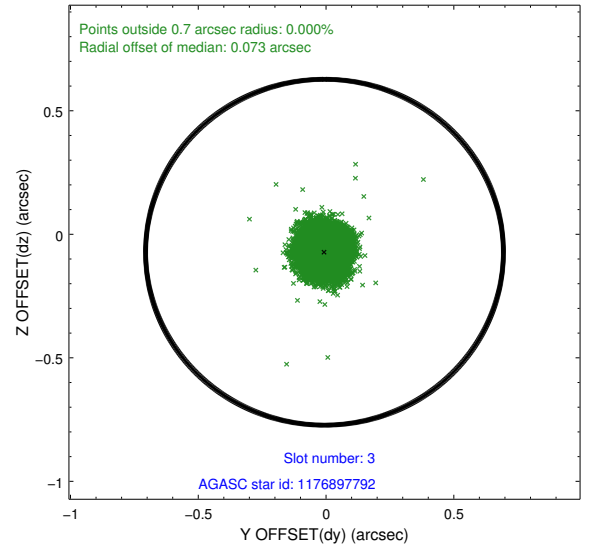
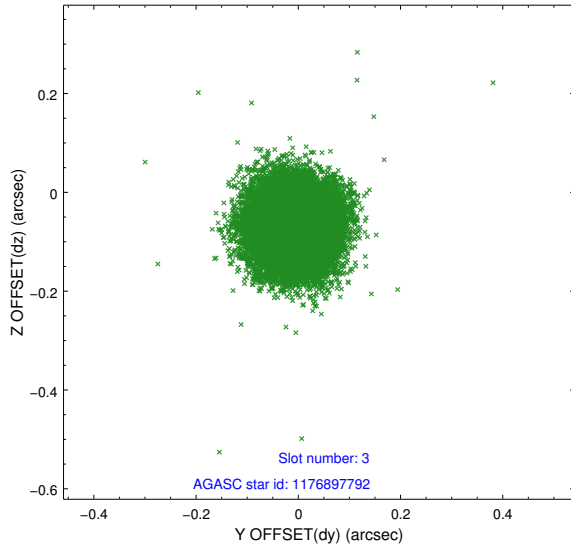


Slot Statistics

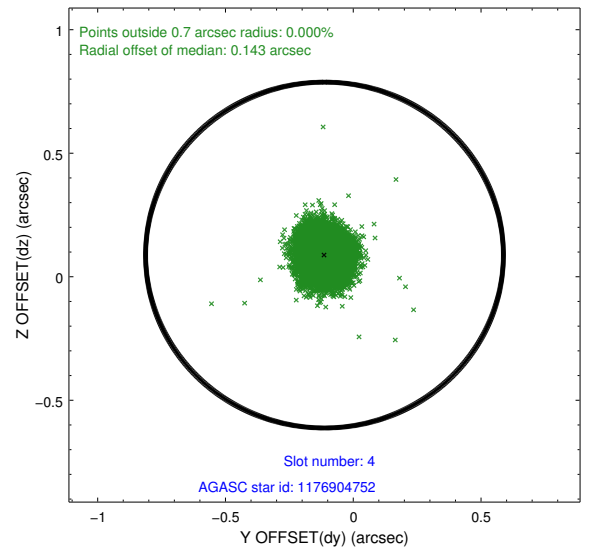
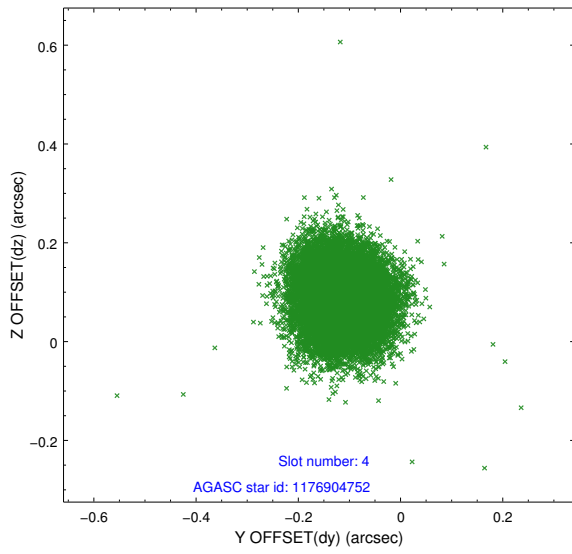
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	7361	0.048	-0.140	0.008	0.015	0.000000	0.000000	-1168.24	-463.38
1	FID	HRC-S-2	6.99	7360	0.133	-0.101	0.031	0.053	0.000000	0.000000	1231.37	-455.98
2	FID	HRC-S-4	6.95	7361	0.223	-0.063	0.027	0.050	0.000000	0.000000	1230.33	568.78
3	GUIDE	1176897792	8.03	14717	-0.006	-0.073	0.072	0.114	186.172975	-62.856270	-99.04	-1102.52
4	GUIDE	1176904752	8.82	14721	-0.113	0.088	0.076	0.124	187.035955	-62.645951	-1591.48	-494.57
5	GUIDE	1176903624	8.96	14707	-0.025	0.084	0.097	0.158	186.173402	-62.637489	-701.24	-1610.19
6	GUIDE	1176911752	7.90	14721	-0.070	-0.344	0.073	0.115	187.933962	-63.406025	-389.19	2367.06
7	GUIDE	1177422896	9.18	14690	0.219	0.244	0.099	0.159	186.940809	-63.884669	1949.50	2221.53

2.4 Star Slots

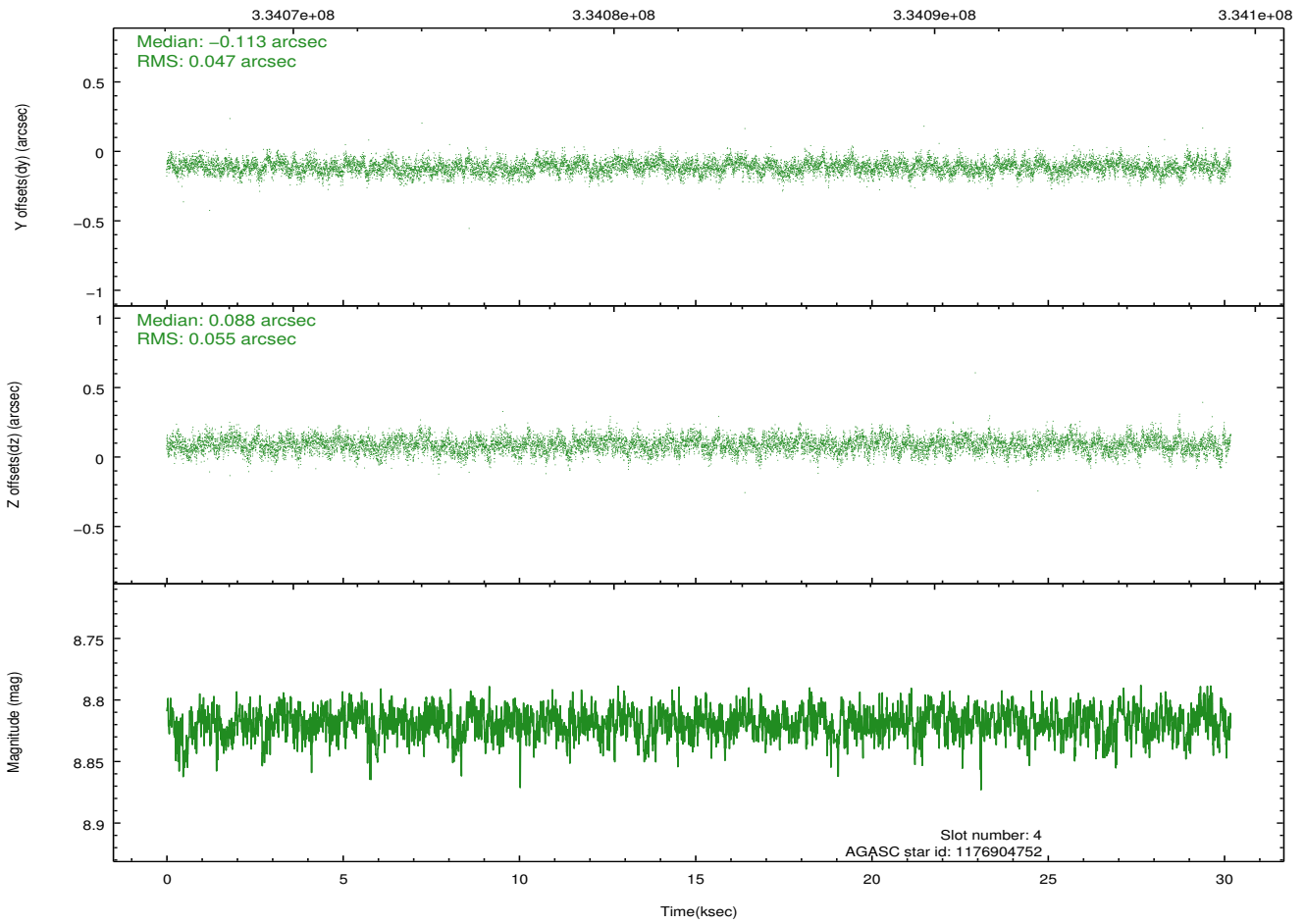
2.4.1 Slot 3



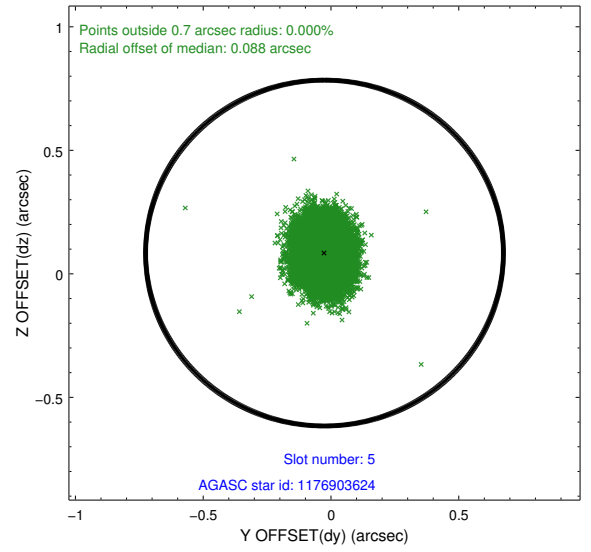
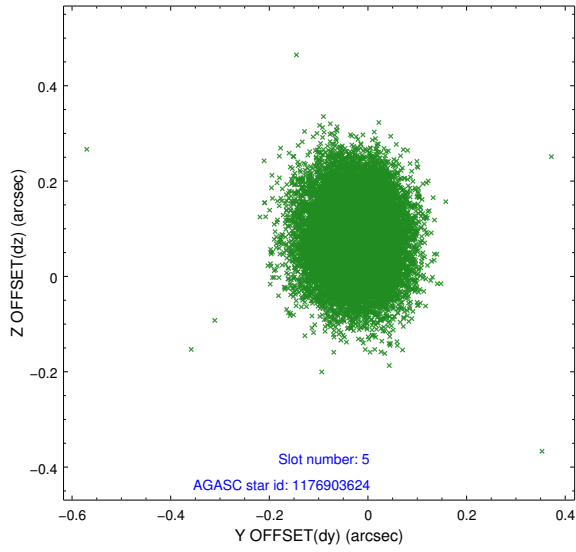
2.4.2 Slot 4



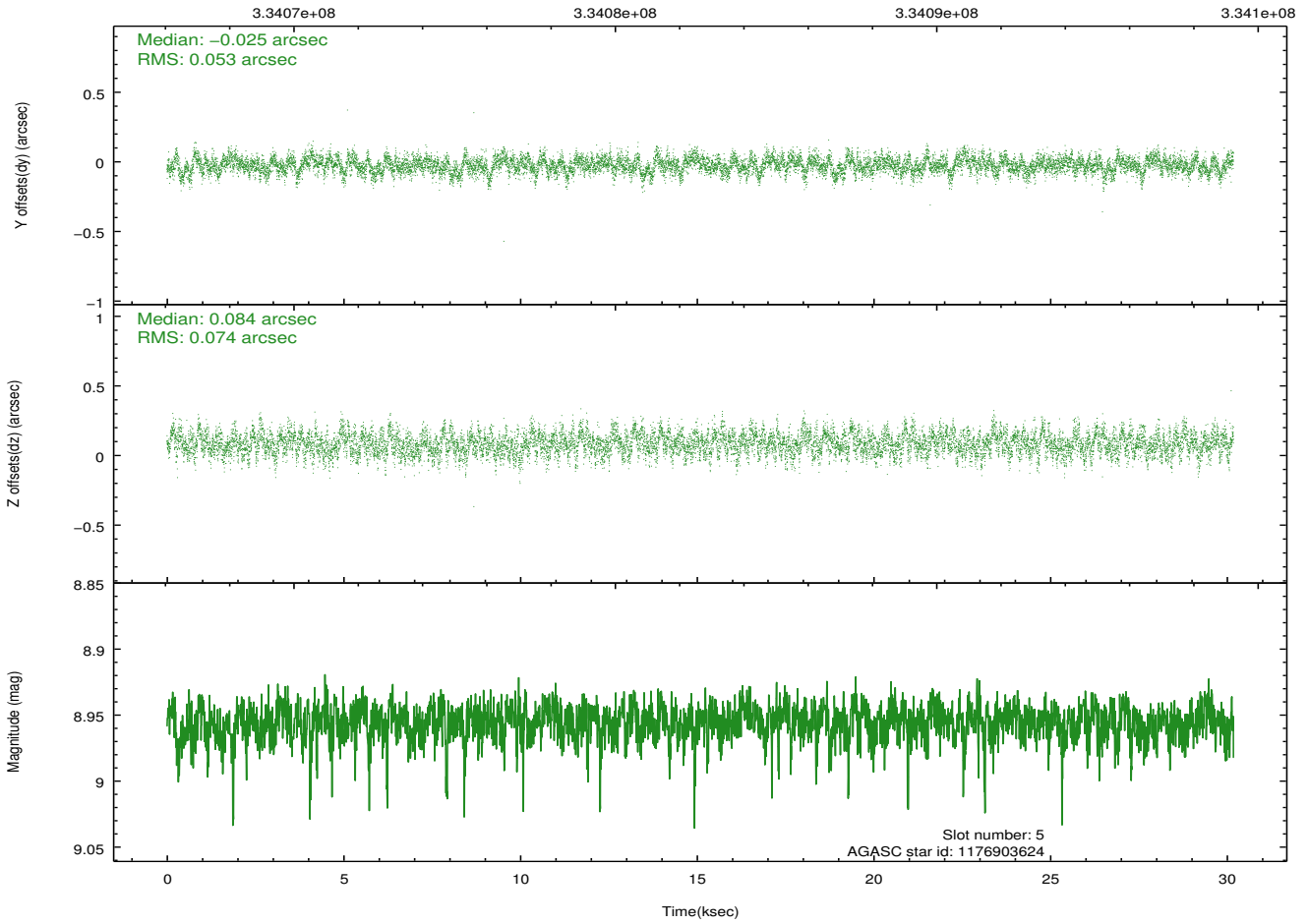
Time (s)



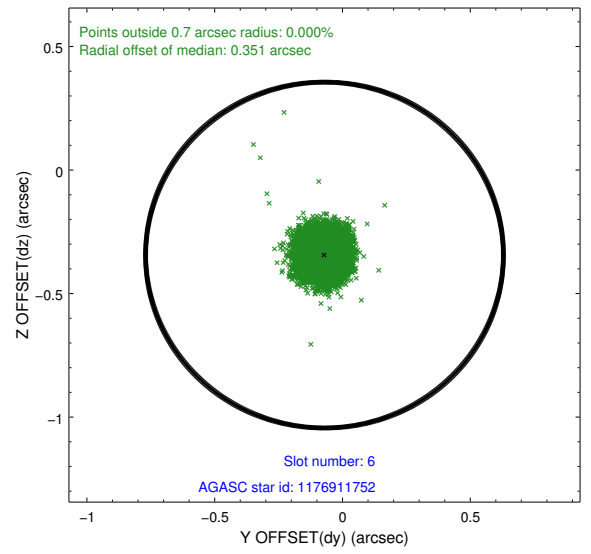
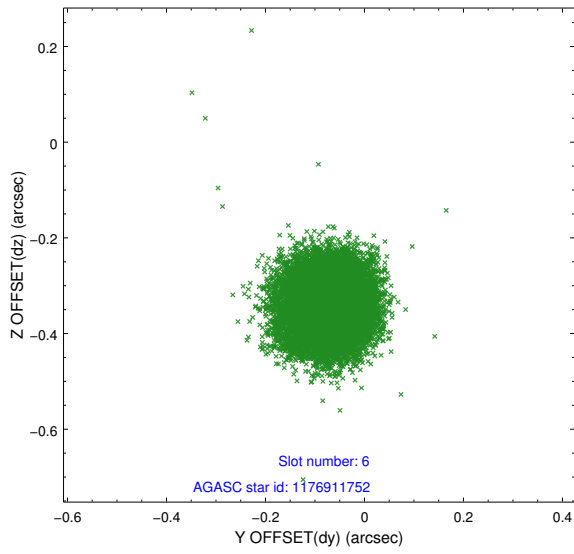
2.4.3 Slot 5



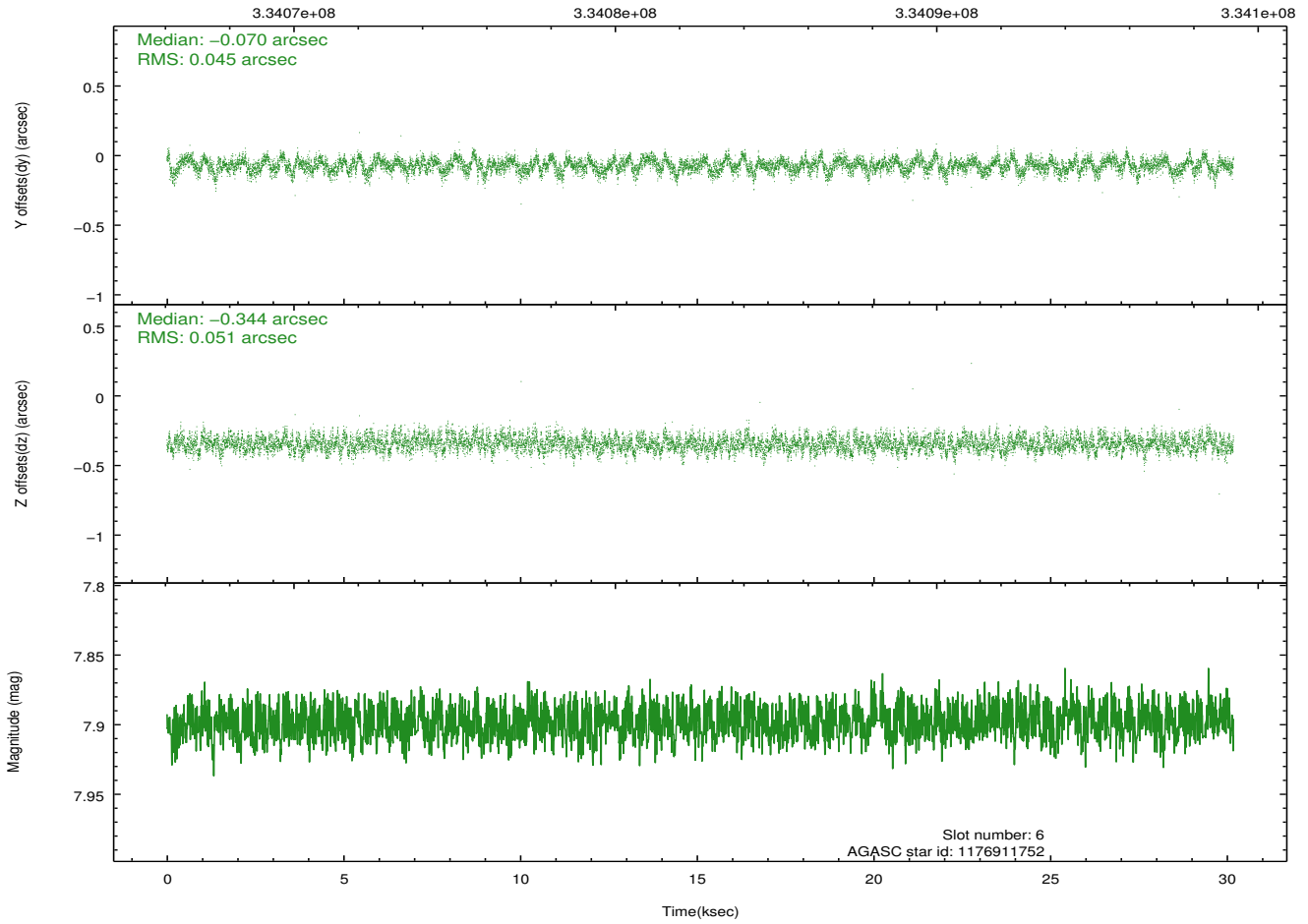
Time (s)



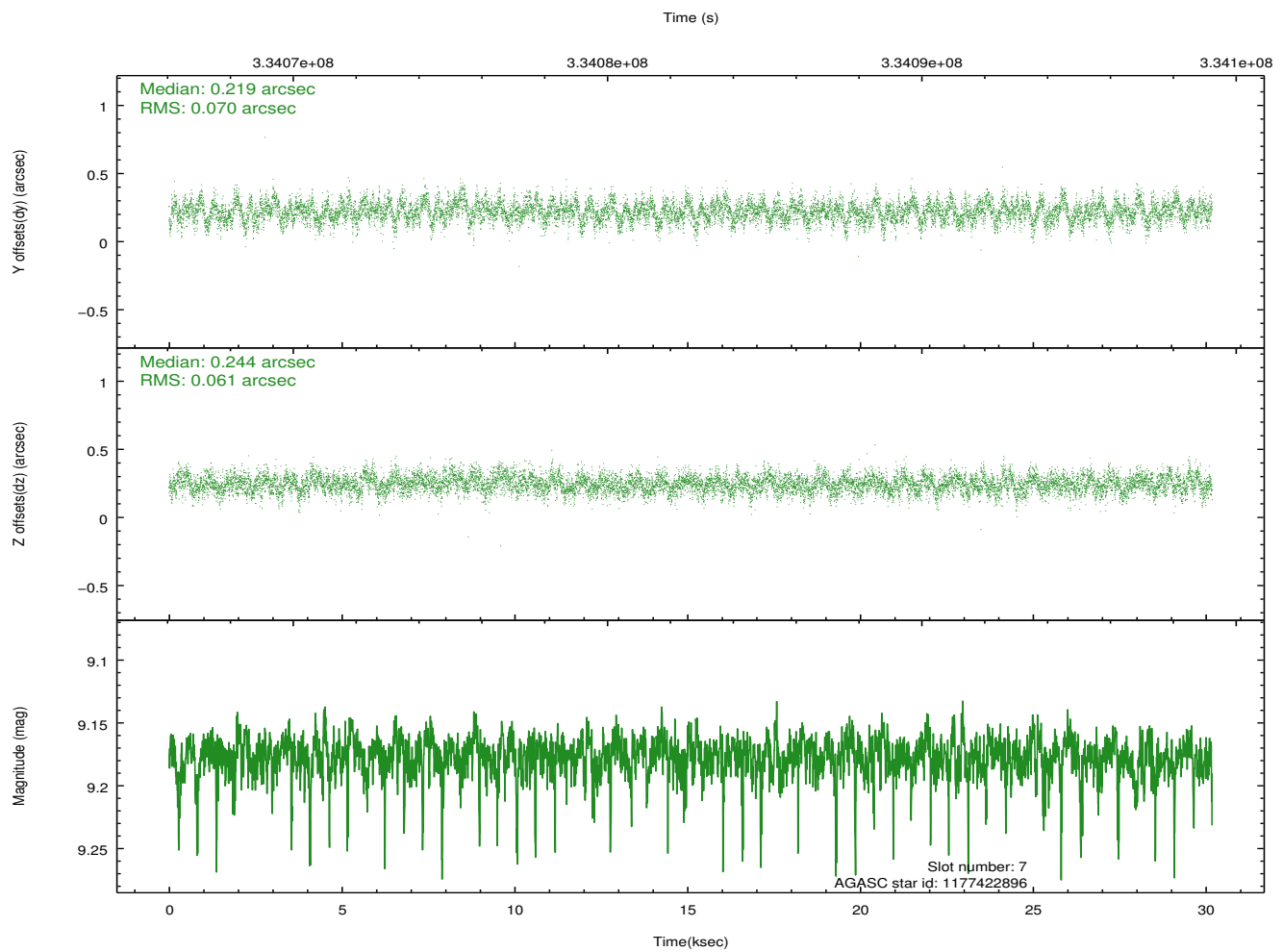
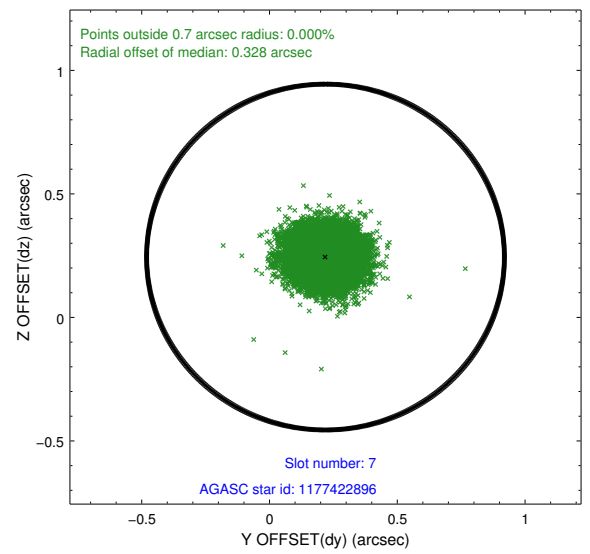
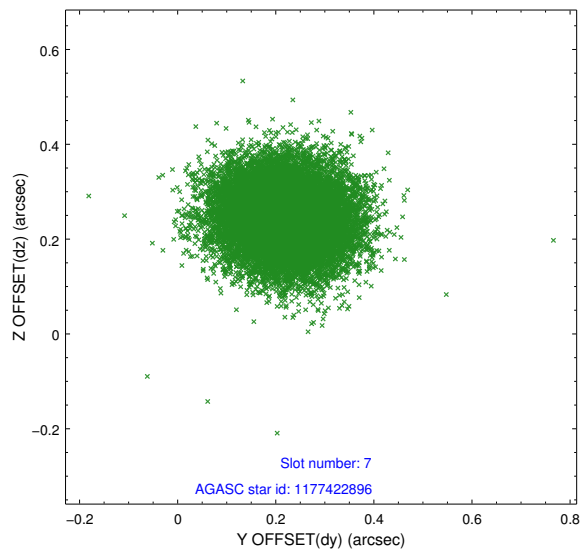
2.4.4 Slot 6



Time (s)

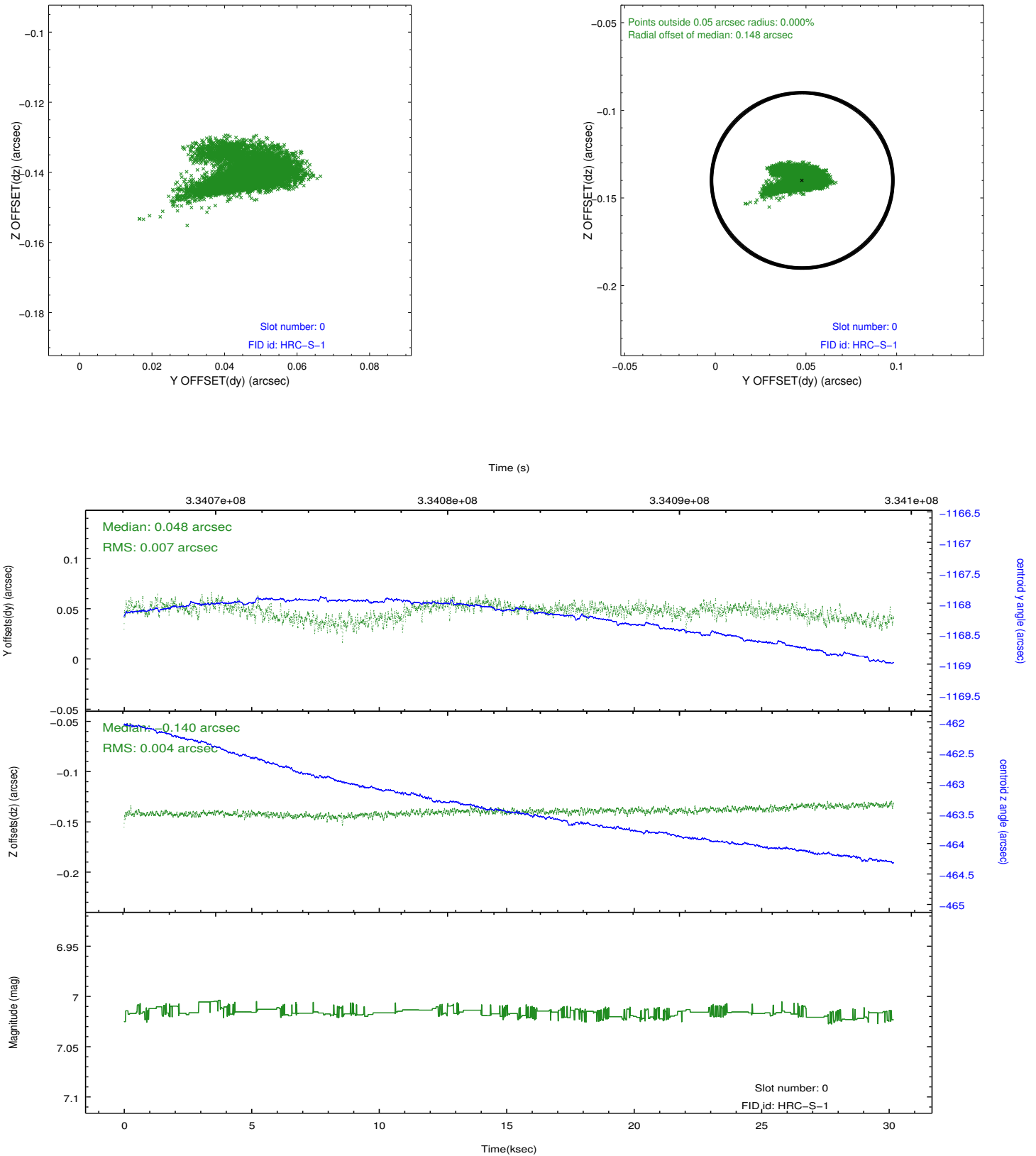


2.4.5 Slot 7

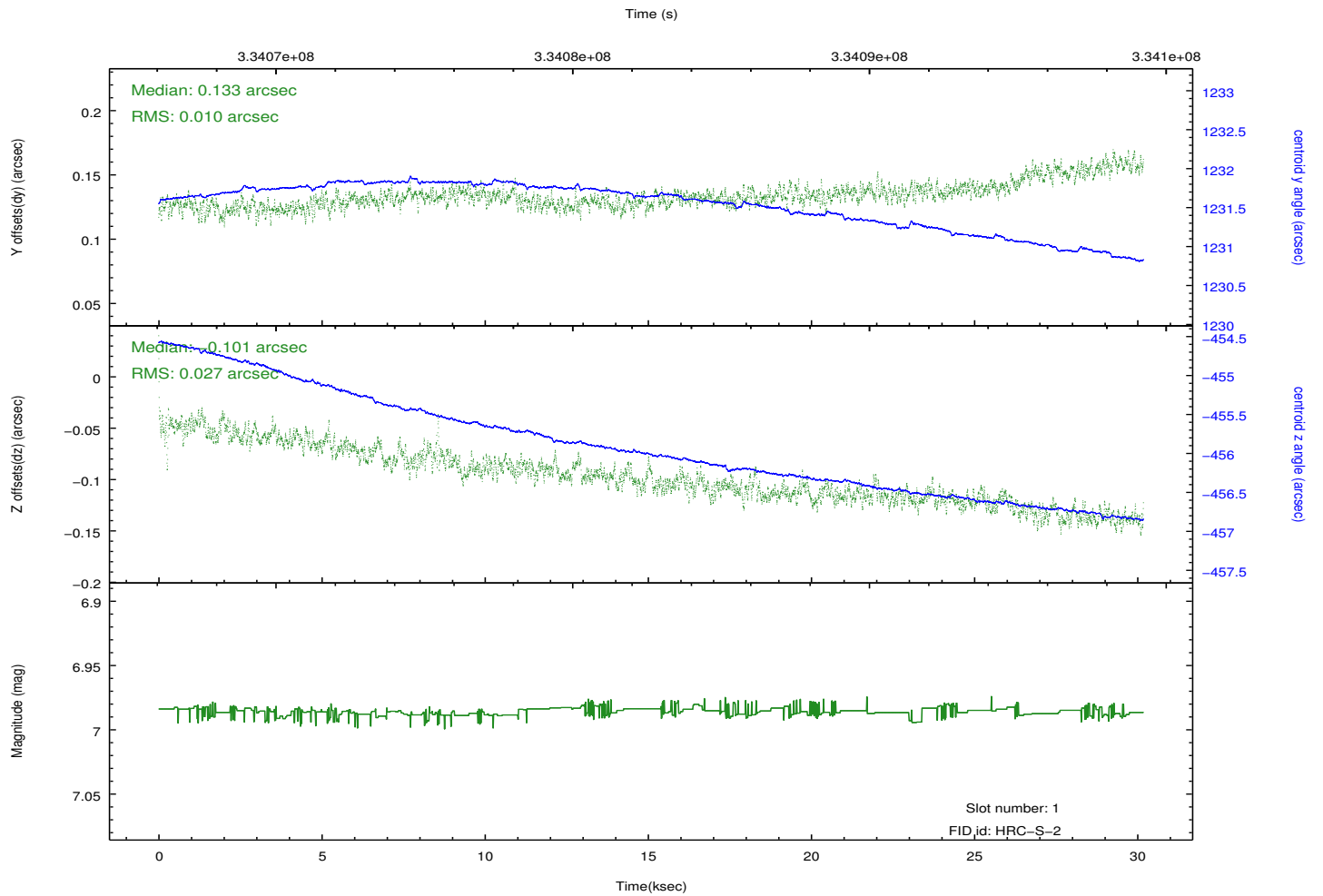
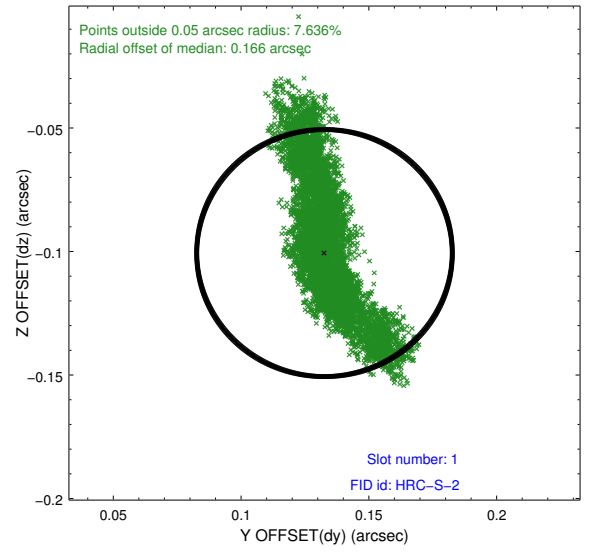
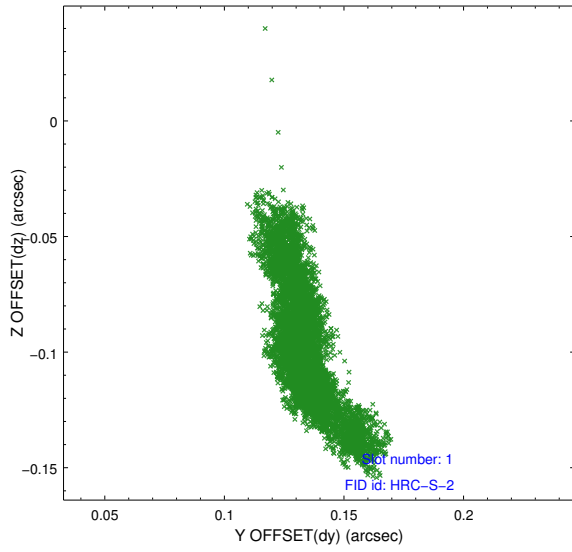


2.5 FID Slots

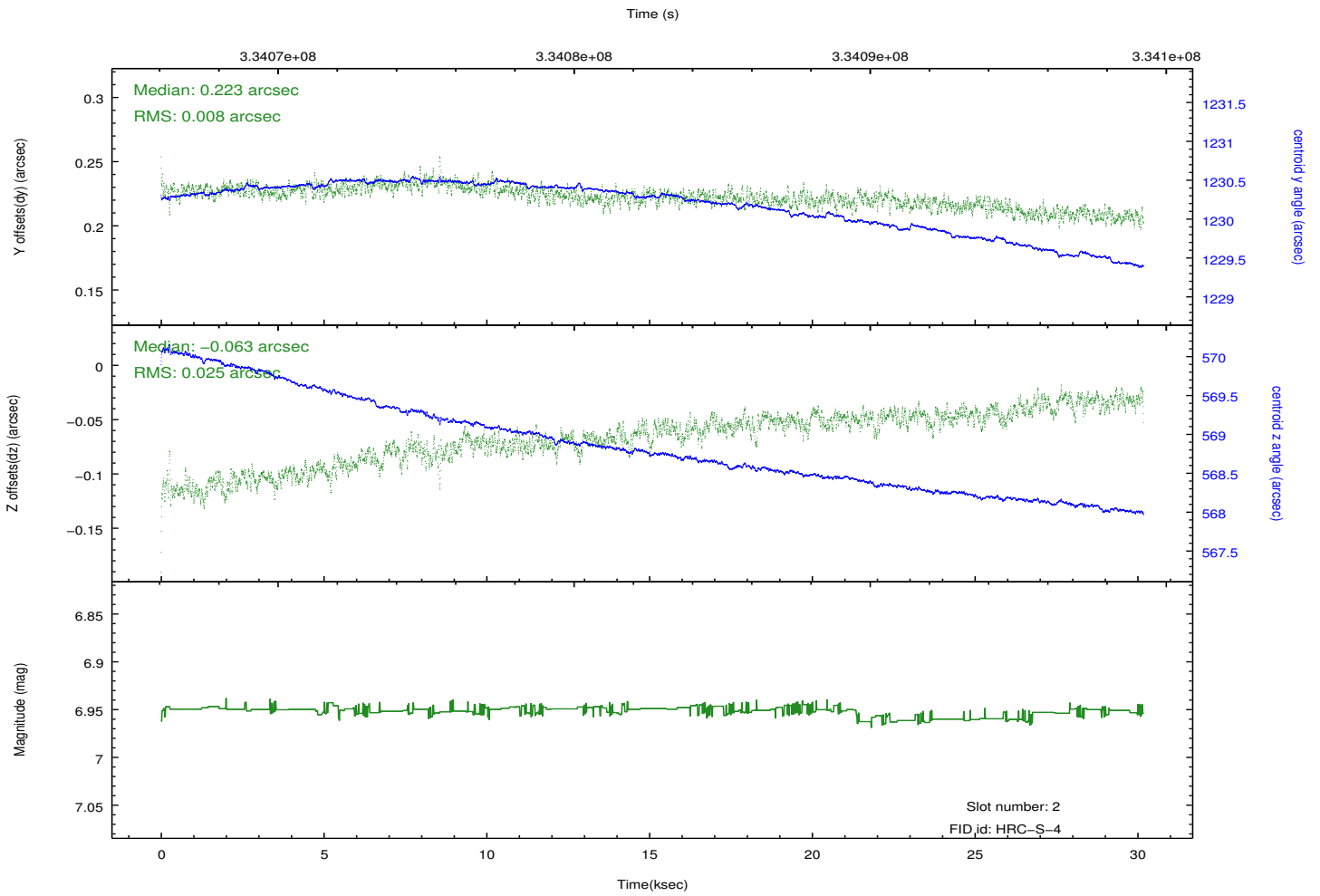
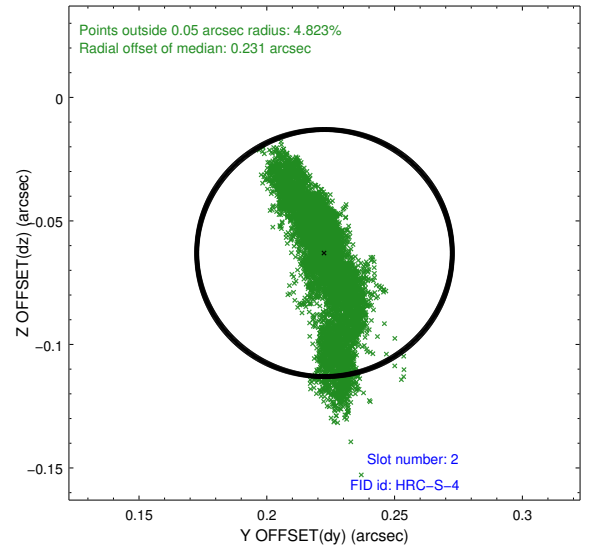
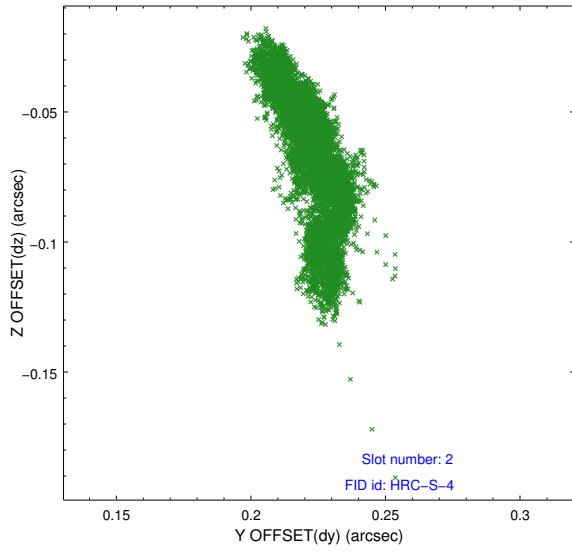
2.5.1 Slot 0



2.5.2 Slot 1

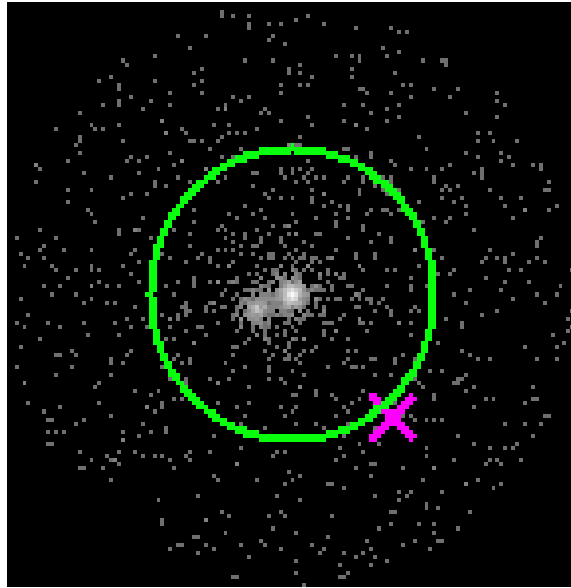


2.5.3 Slot 2

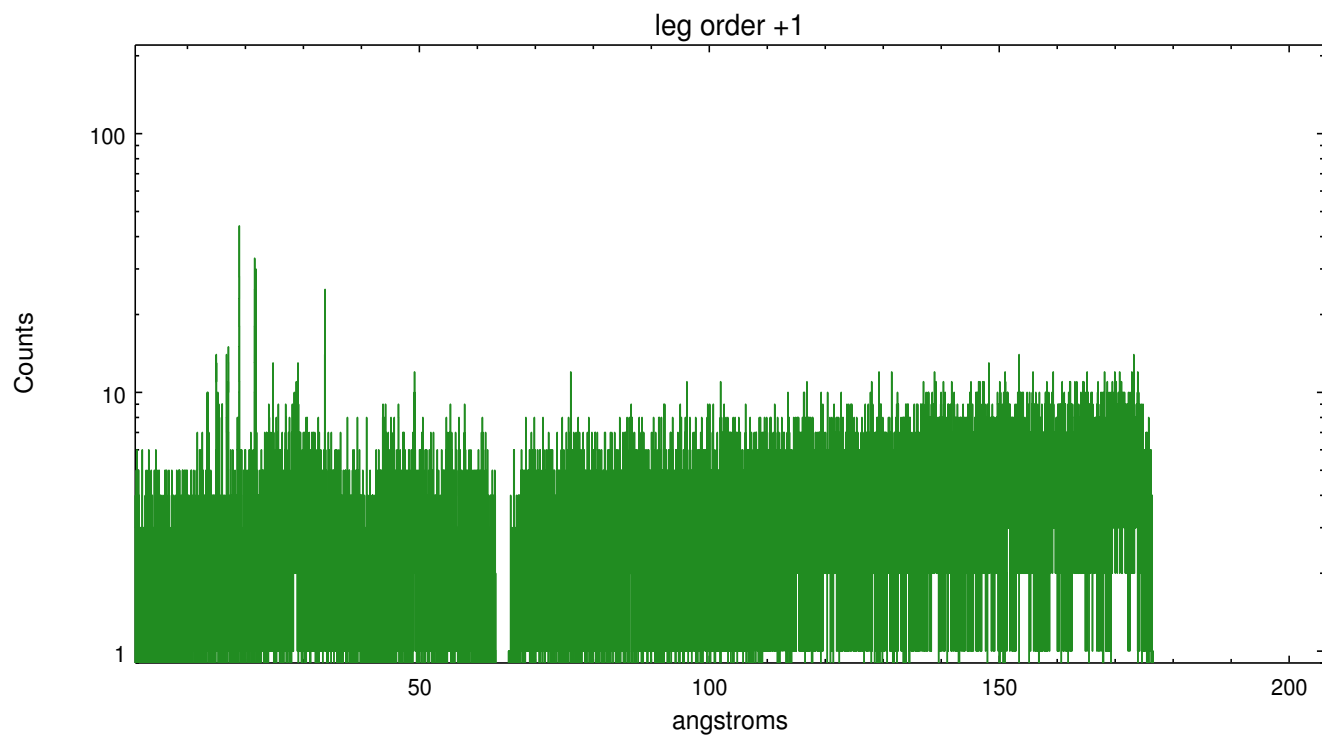
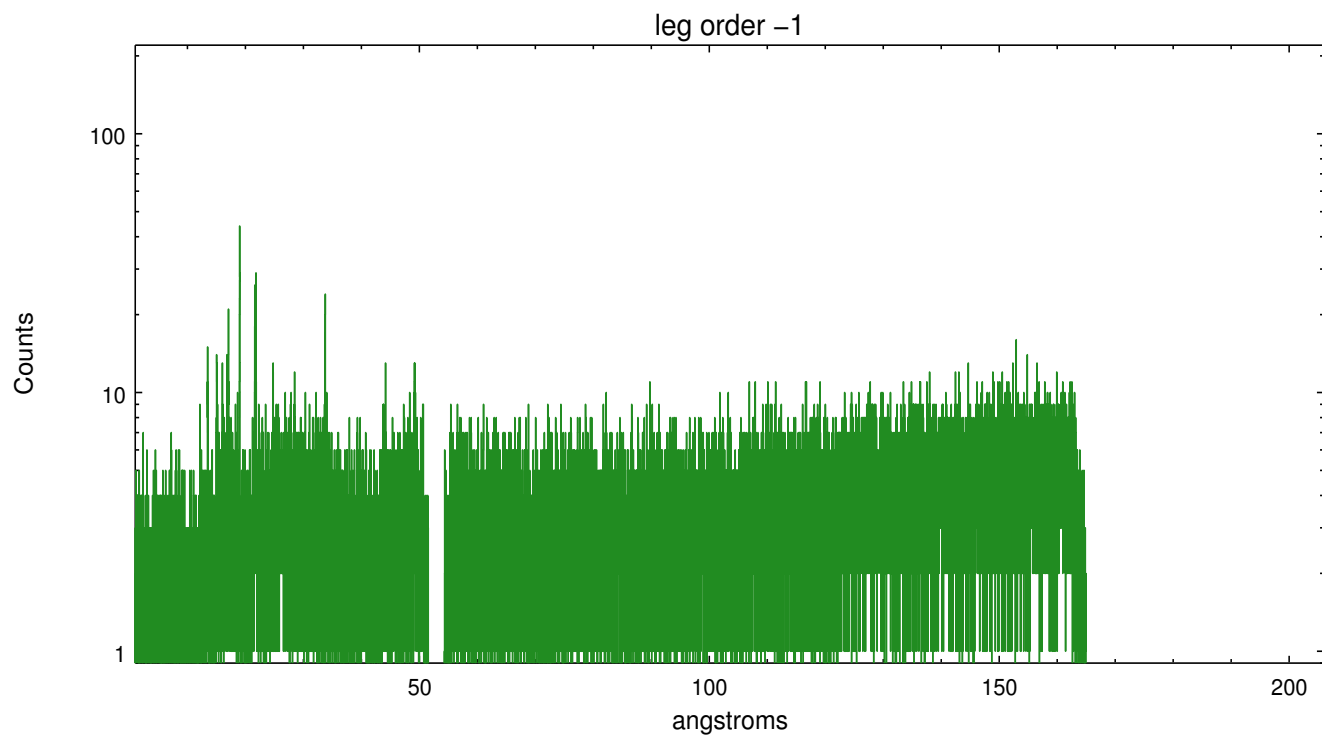


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.1813827

A.2 Comments

Roll constraint met. Additional source approximately 4 arcsec away from primary source. The additional source is apparently HD 108249. The roll angle was specified to place this additional source in the cross-dispersion direction to allow the spectra to be separated.===== The default source spectral extraction region (the 'bow-tie') will include events from the neighbor beyond about 60A, where the spectra expand due to astigmatism, a widening of the spectrum in the cross-dispersion direction. Background regions will also have to be taken from only one side ('up' or 'down') to avoid contamination by the neighboring source.