

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7456 - L2 Version 4  
Chandra X-Ray Center

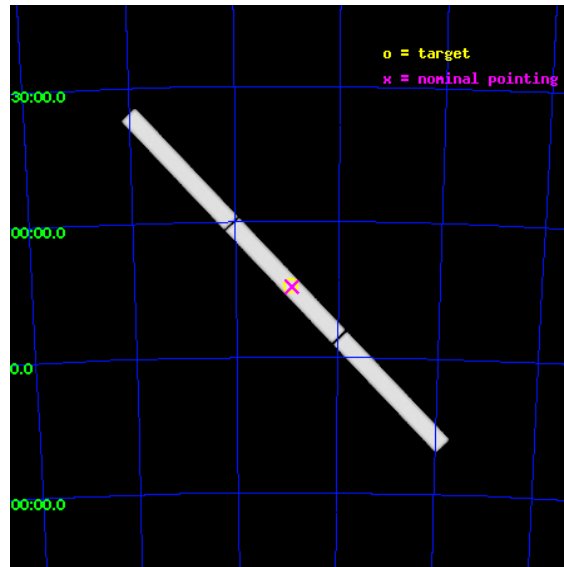
L2 Processing Date : Aug 11 2012

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# 1 Front

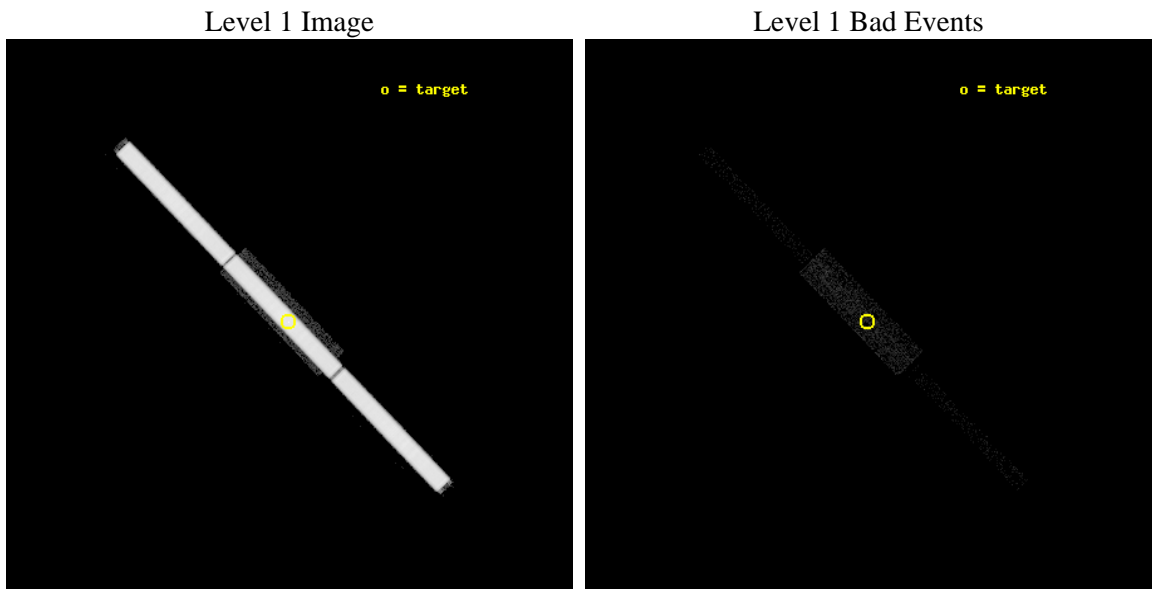
seq_num	300190	Sequence number
obs_id	7456	Observation id
title	Supersoft Sources at Low Metallicity: SMC 13	Proposal title
observer	Dr. Thierry Lanz	Principal investigator
object	SMC 13	Source name
ra_targ	9.329167	Observer's specified target RA [deg]
dec_targ	-72.237222	Observer's specified target Dec [deg]
ra_nom	9.3181267991131	Nominal RA [deg]
dec_nom	-72.240592631211	Nominal Dec [deg]
roll_nom	226.05681660774	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40185.126909018	[s]
livetime	39828.725542235	Ontime multiplied by DTCOR
l2events	2952038	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	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40185.126909018	[s]
caldbver	4.5.1.1	&#160	l1events	4018902	Number of level 1 events
date	2012-08-11T19:18:32	Date and time of file creation			
revision	4	Processing version of data			

## 2.1.3 Events

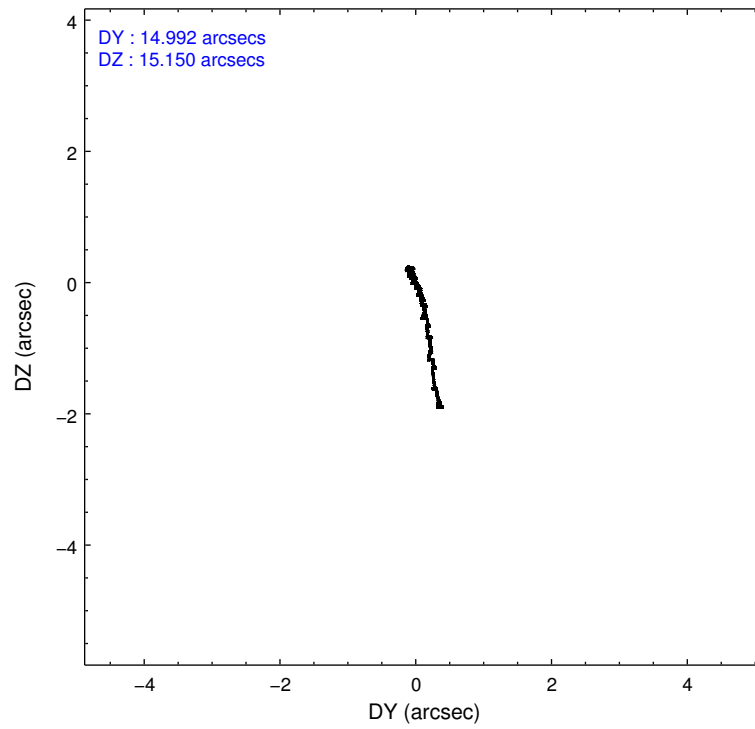
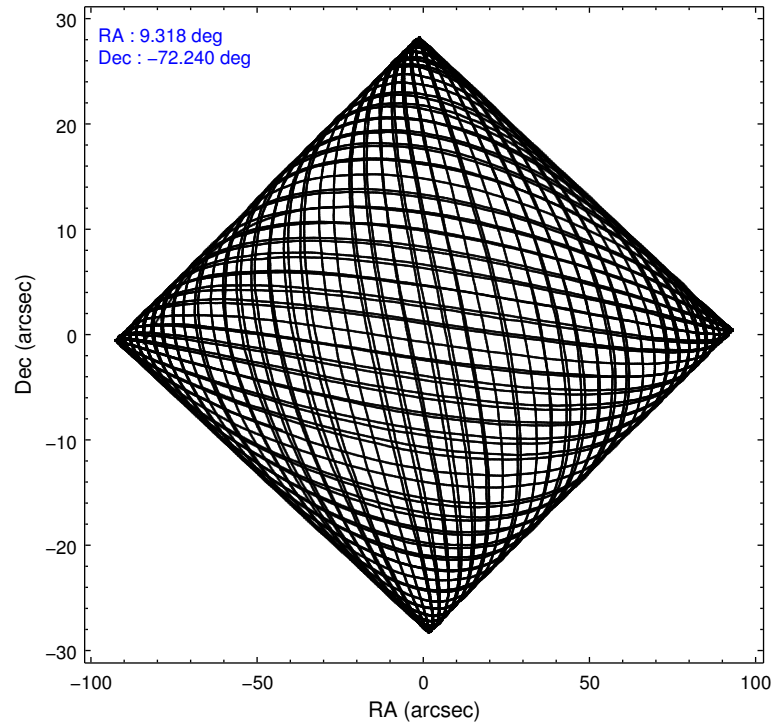
### Level 1 Events

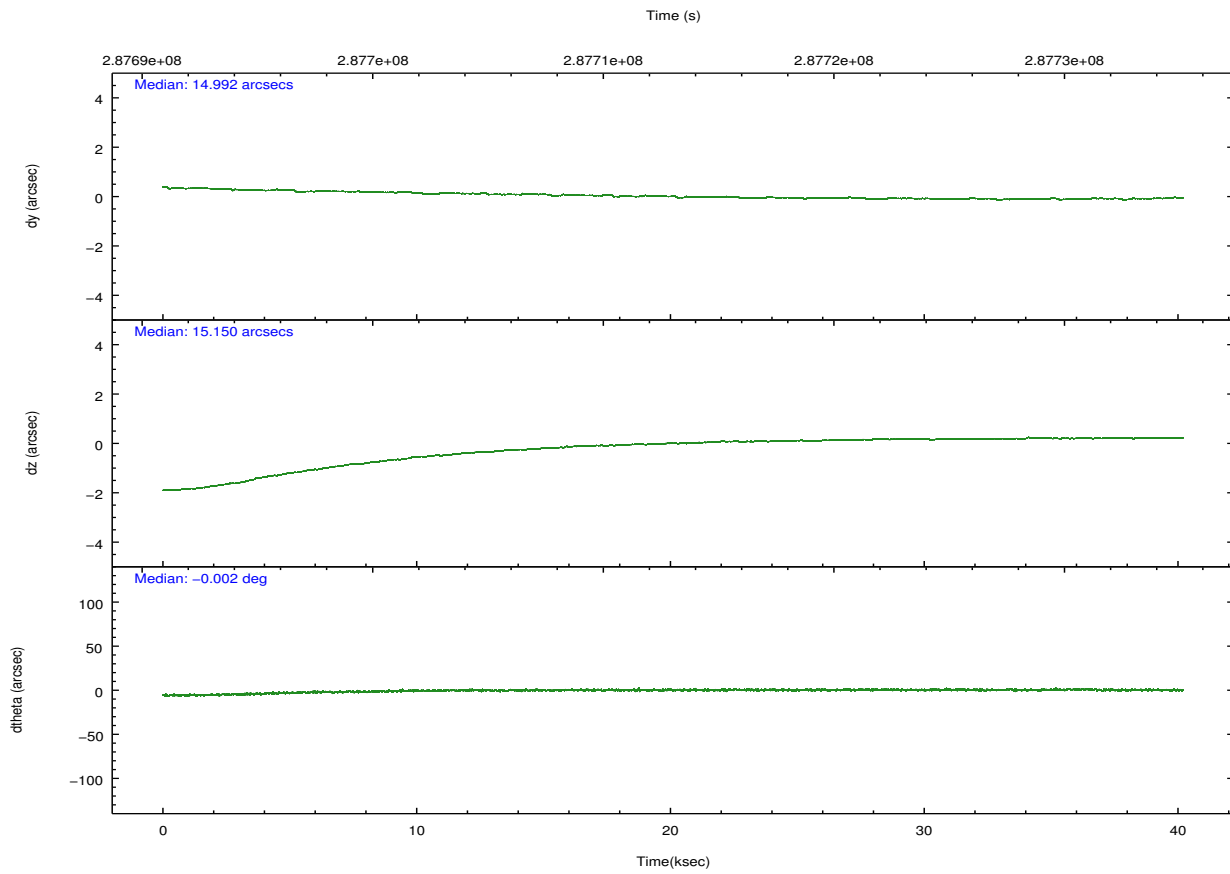
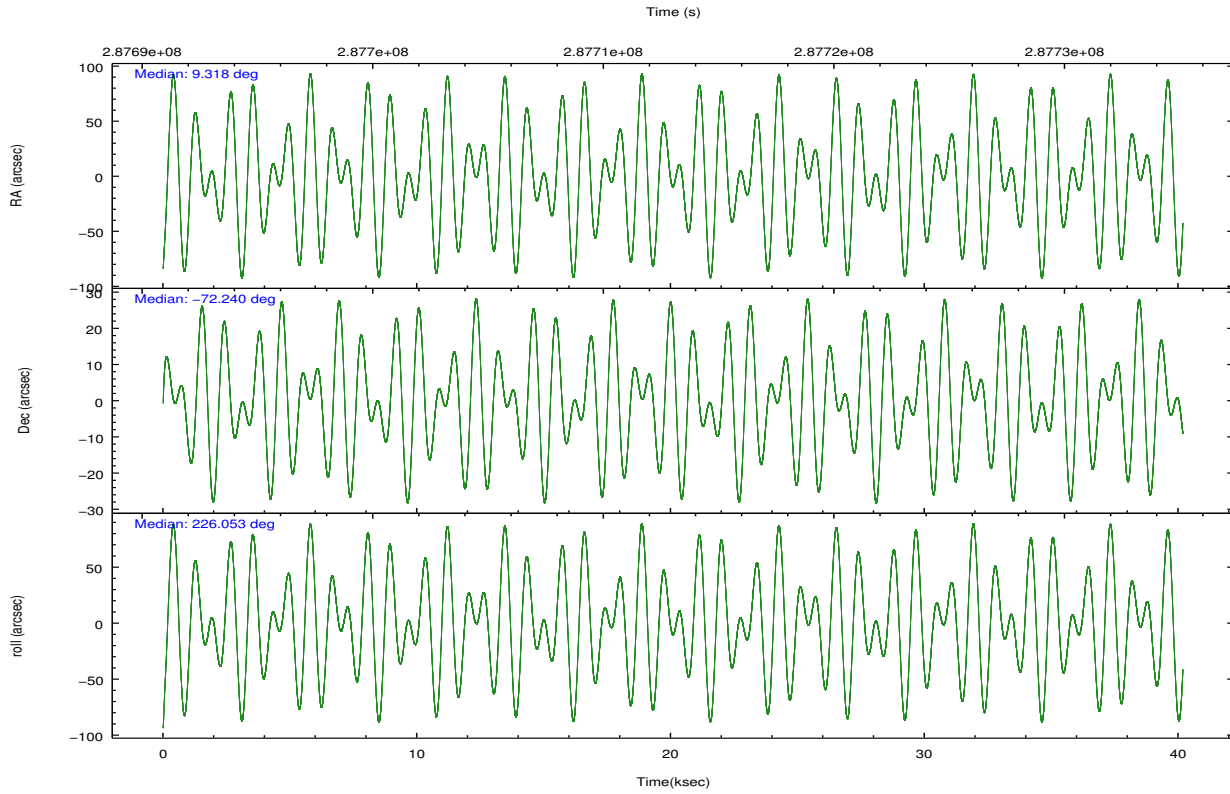
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1342240	1327640	1349022
rejected events	32193	37534	32309
rejected %	2%	2%	2%

## 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	9.336226	9.318126799113145			
[deg] Pointing Dec	-72.212431	-72.24059263121076			
[deg] Pointing Roll	226.006723	226.0568166077388			
[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)	287693123.184000	287691981.4553			
Observation start date	2007-02-12T18:44:18	2007-02-12T18:26:21			
[s] Observation end time (MET)	287733123.184000	287733984.93229			
Observation end date	2007-02-13T05:50:58	2007-02-13T06:06:24			

## 2.3 Aspect



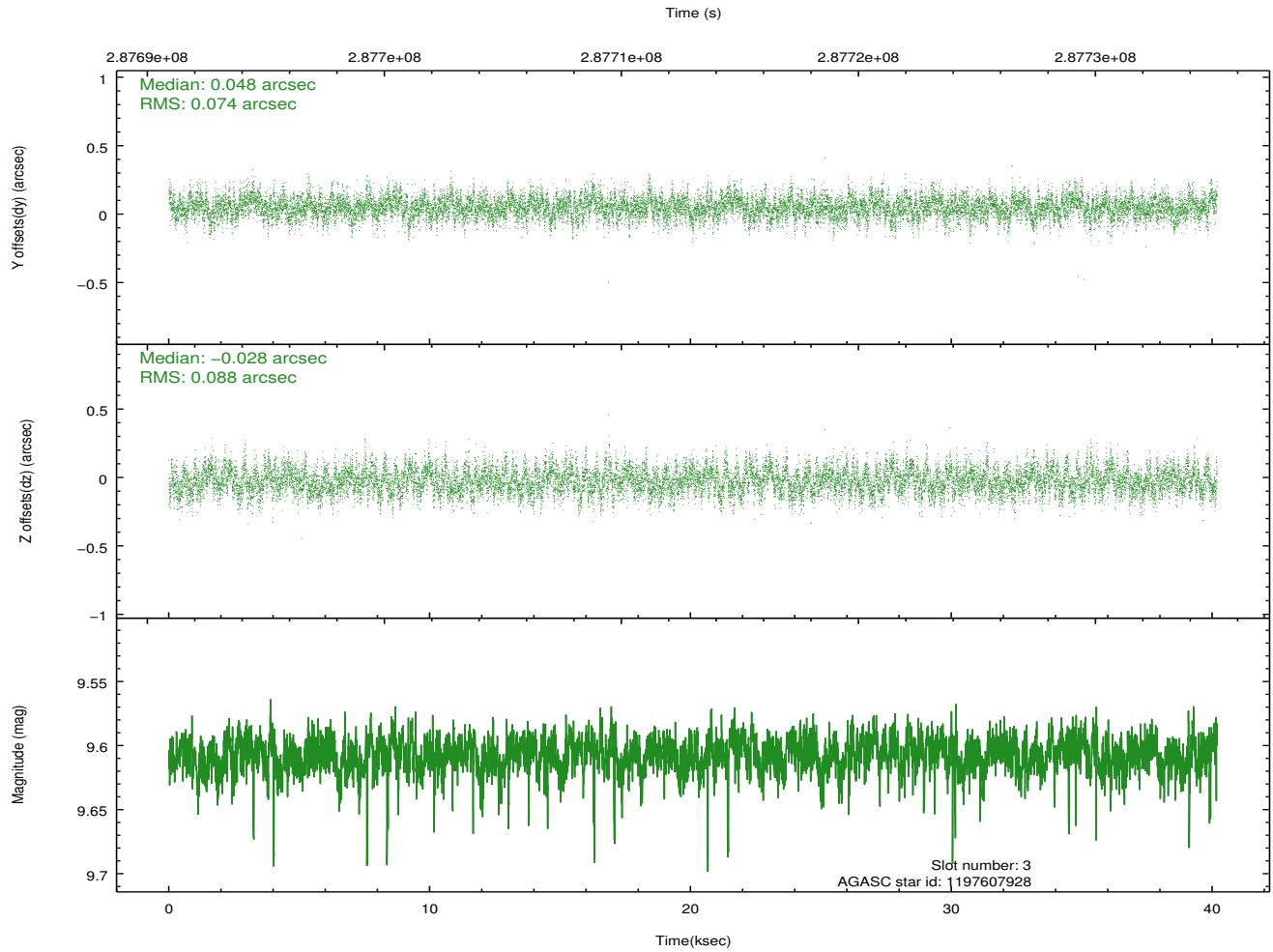
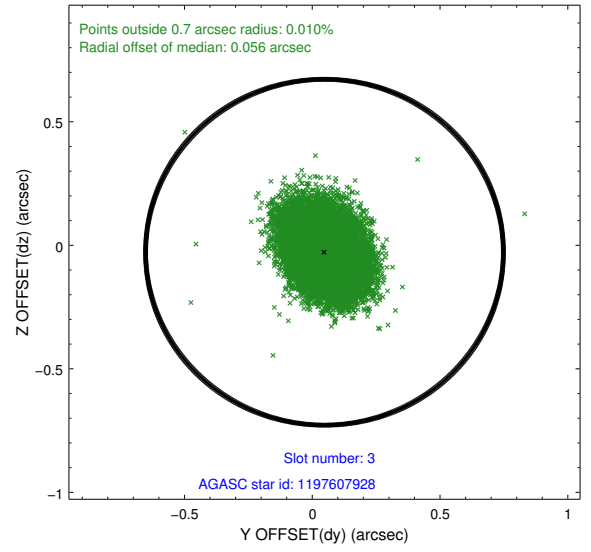
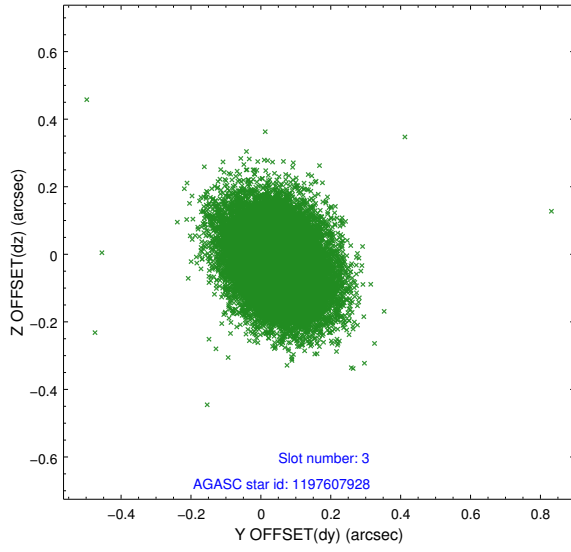


### Slot Statistics

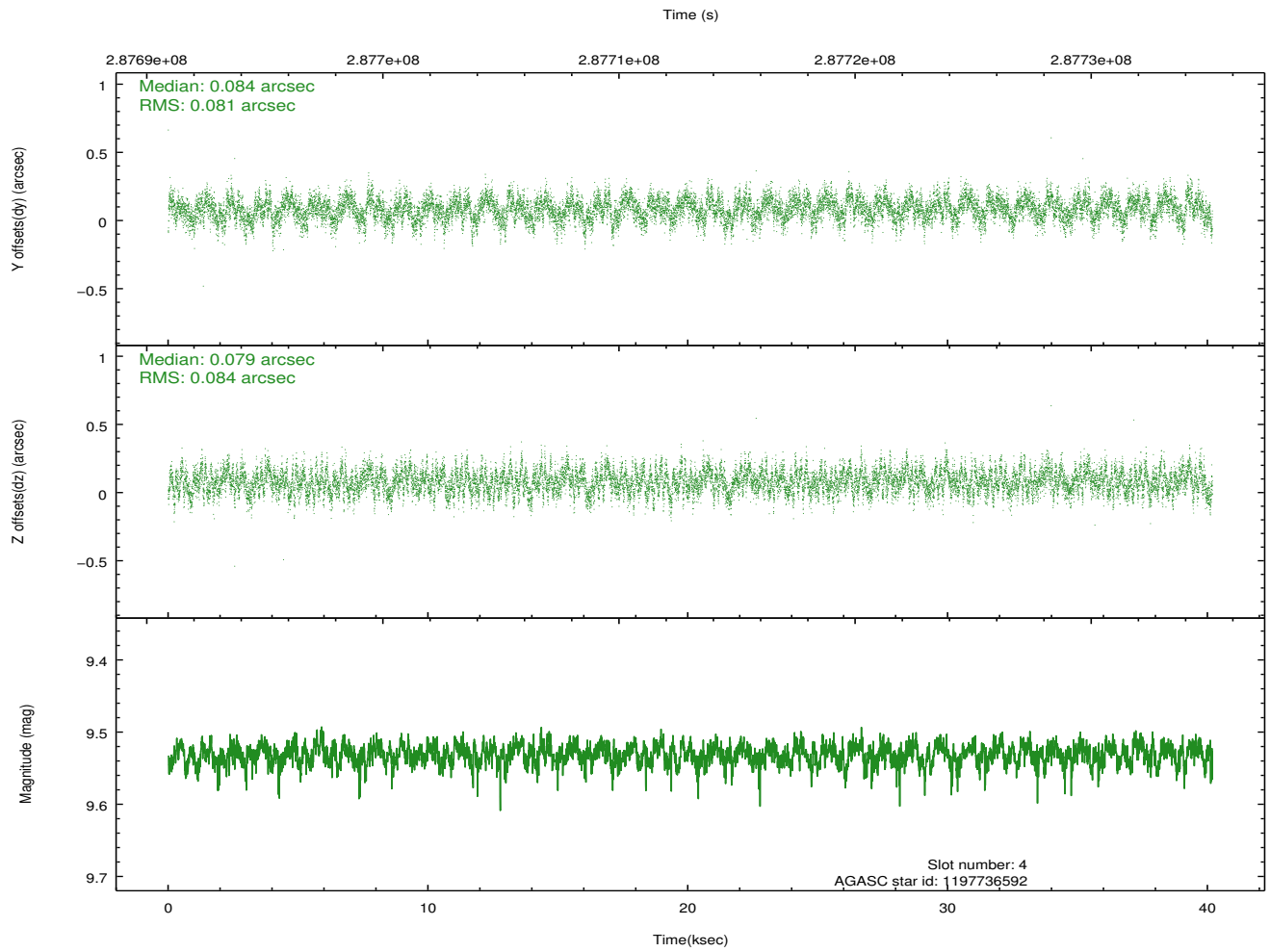
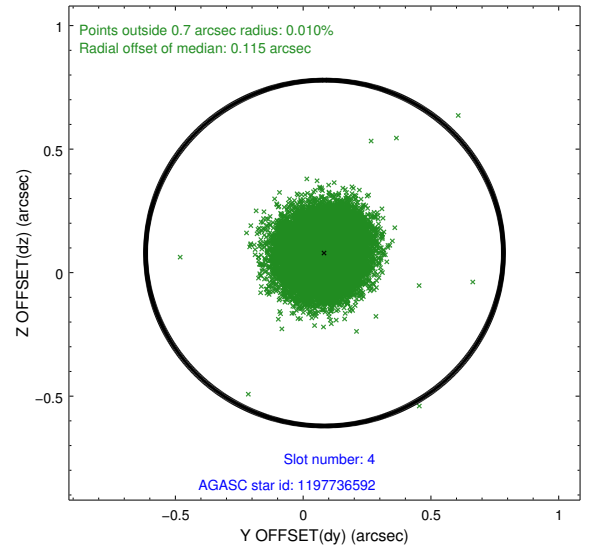
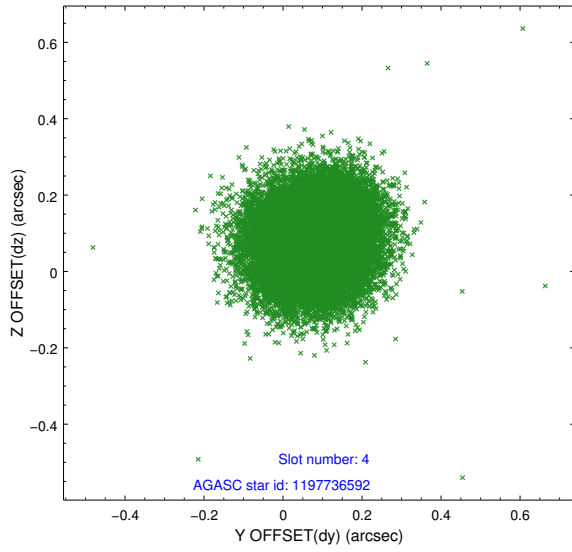
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	9802	0.090	-0.219	0.011	0.042	0.000000	0.000000	-1169.44	-463.75
1	FID	HRC-S-2	7.02	9802	0.185	-0.107	0.008	0.015	0.000000	0.000000	1230.22	-456.37
2	FID	HRC-S-3	7.04	9802	0.115	0.023	0.013	0.039	0.000000	0.000000	-1171.99	565.97
3	GUIDE	1197607928	9.61	19577	0.048	-0.028	0.122	0.199	7.837743	-72.165759	1041.78	-1290.49
4	GUIDE	1197736592	9.53	19582	0.084	0.079	0.125	0.197	9.930334	-71.623113	-1991.56	-986.05
5	GUIDE	1197739496	9.79	19582	0.084	0.096	0.160	0.265	8.930155	-71.541204	-1415.53	-2009.97
6	GUIDE	1198135560	9.43	19585	0.008	-0.070	0.113	0.186	8.700395	-72.843436	2105.96	1094.90
7	GUIDE	1198150512	8.36	19590	-0.224	-0.078	0.071	0.114	9.044301	-72.846944	1859.45	1364.55

## 2.4 Star Slots

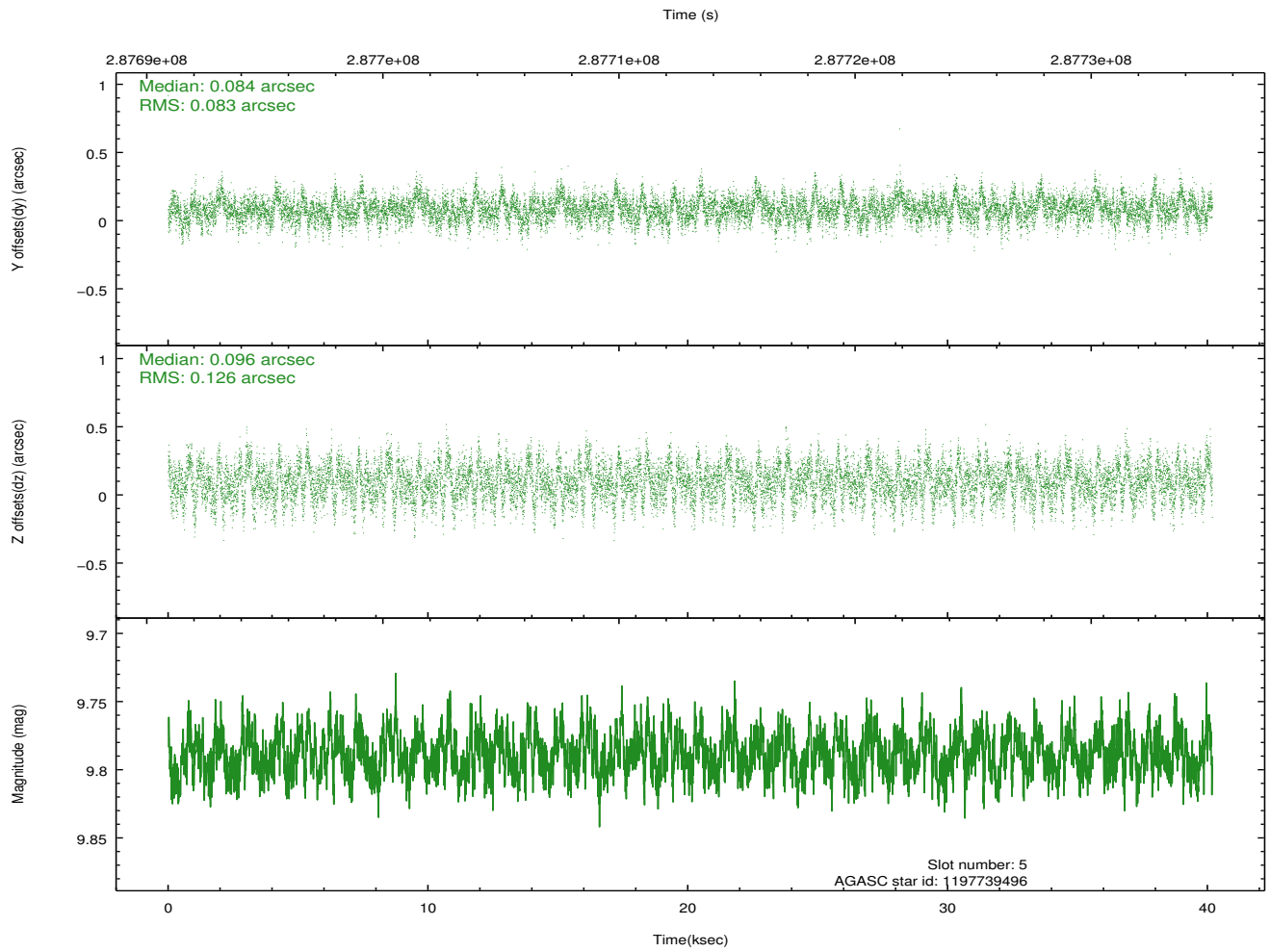
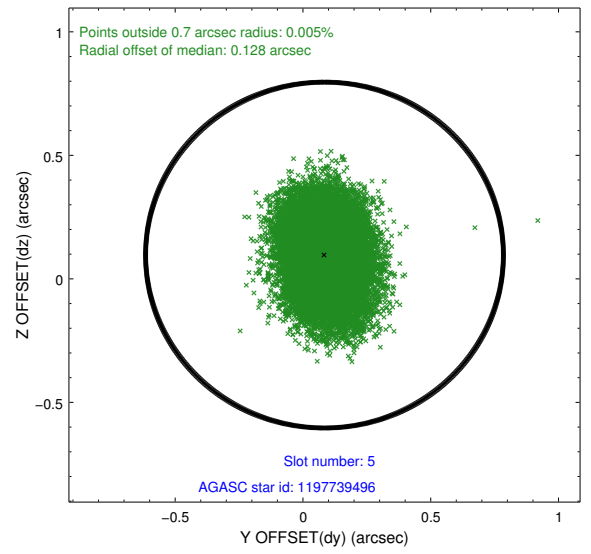
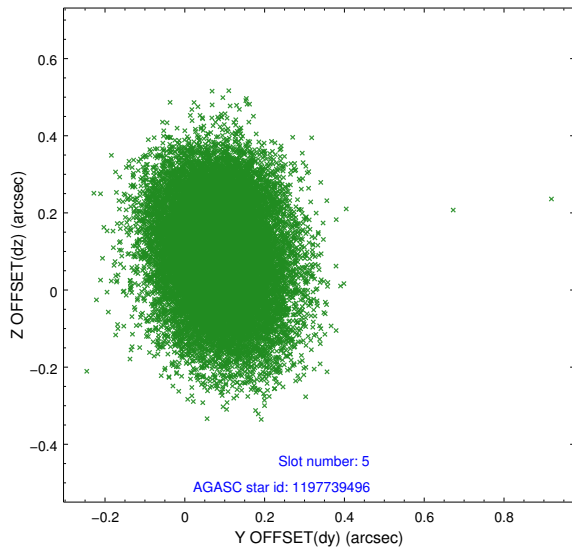
### 2.4.1 Slot 3



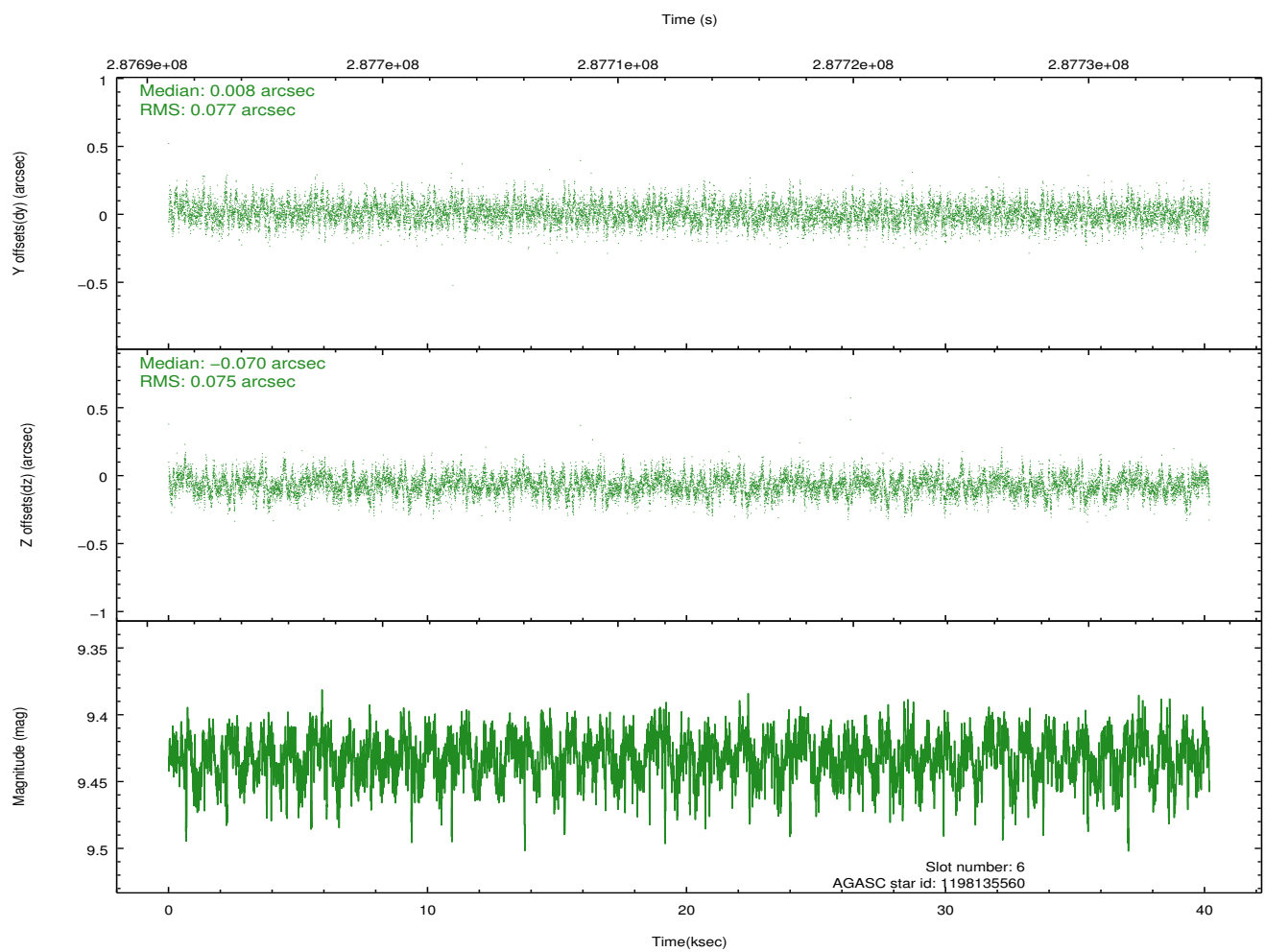
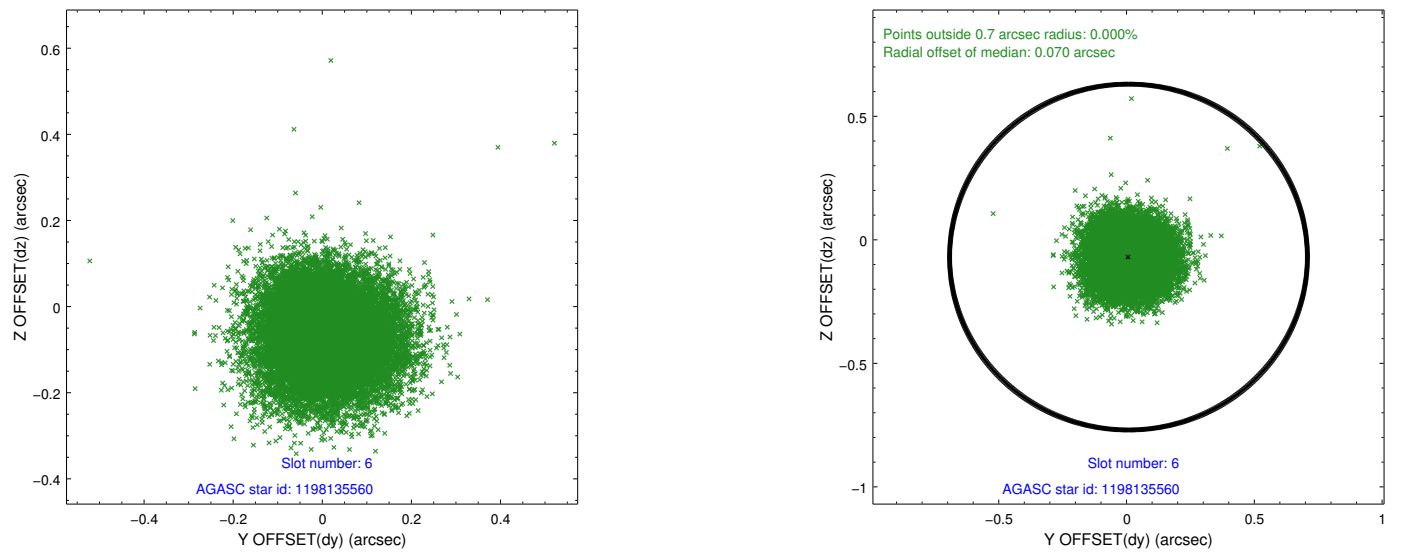
### 2.4.2 Slot 4



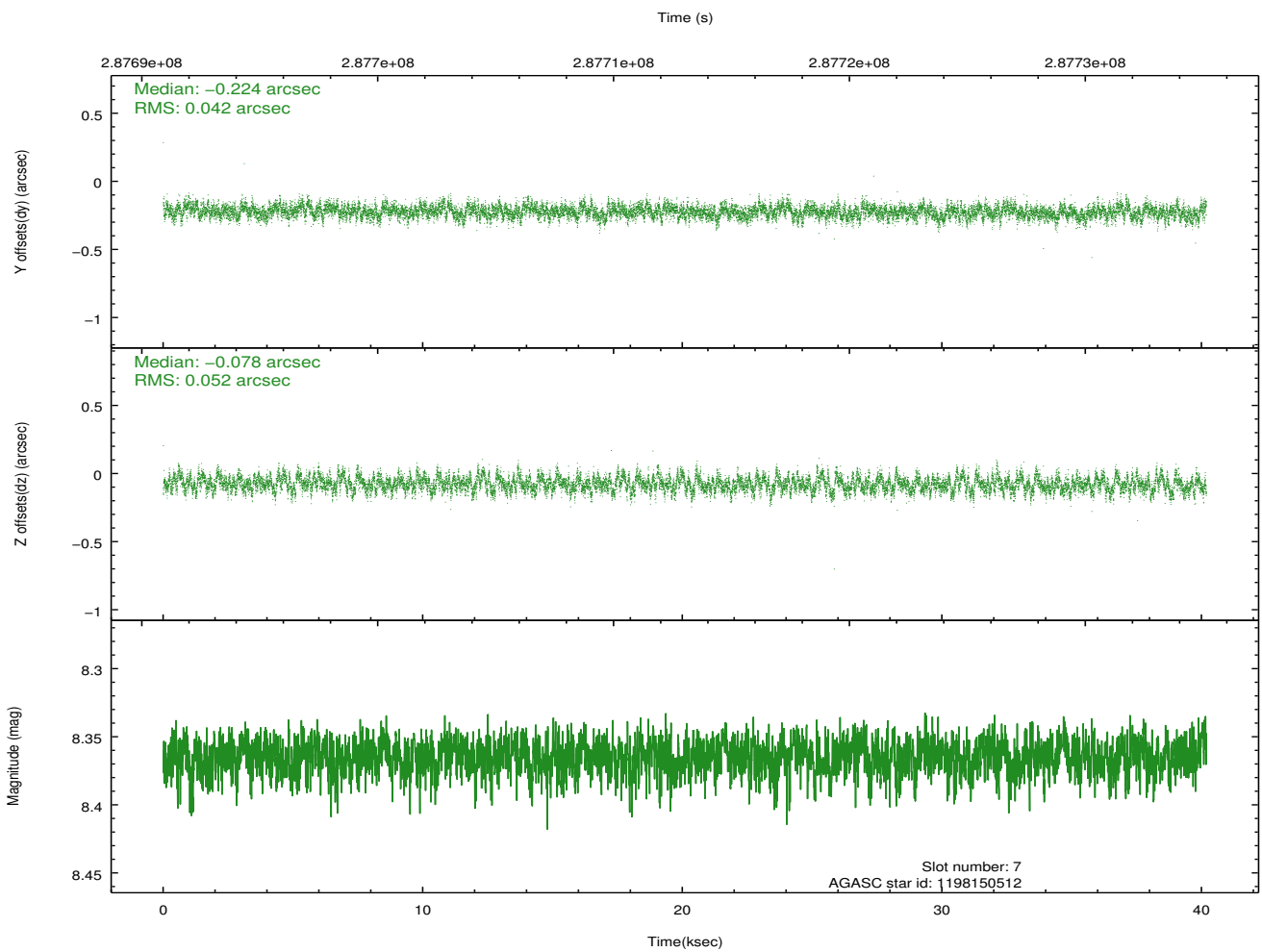
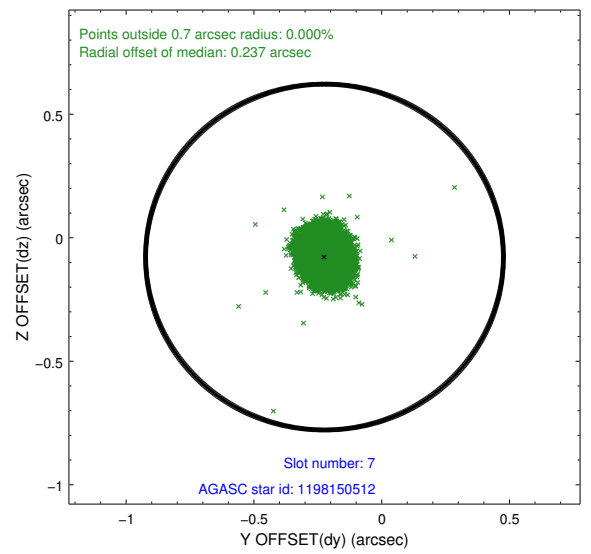
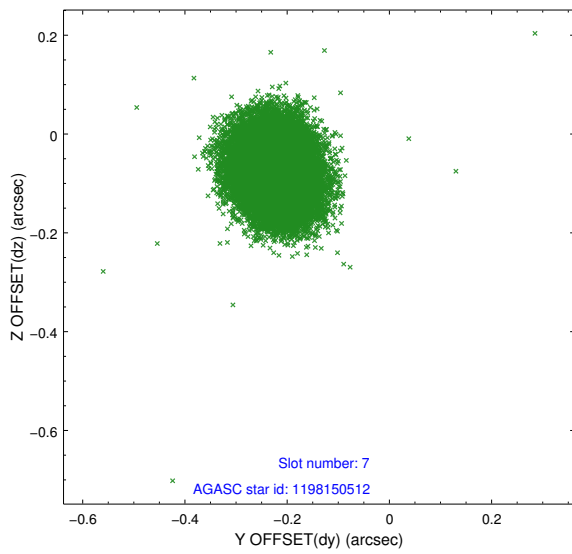
### 2.4.3 Slot 5



## 2.4.4 Slot 6

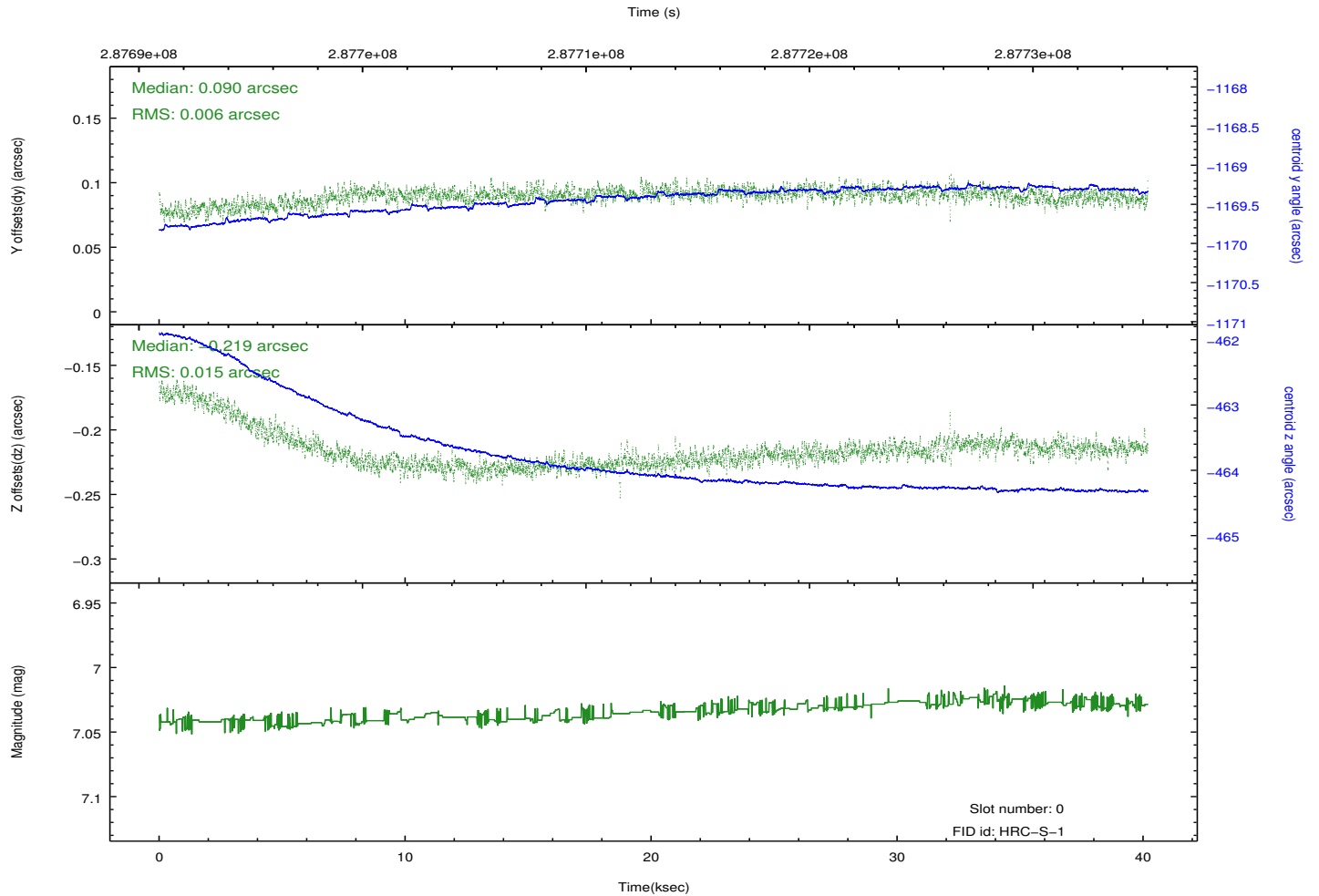
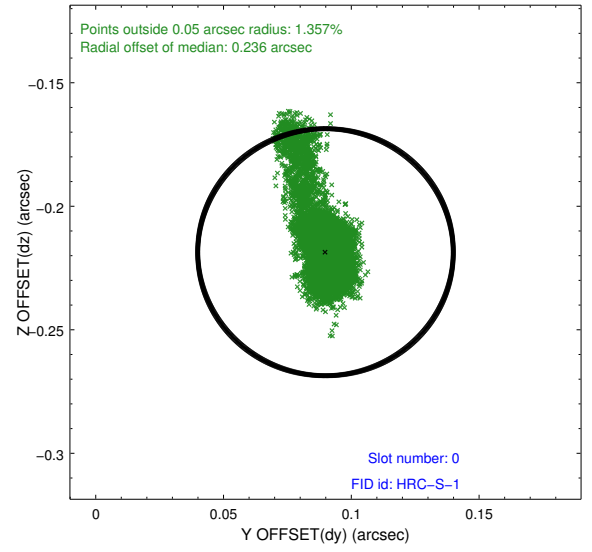
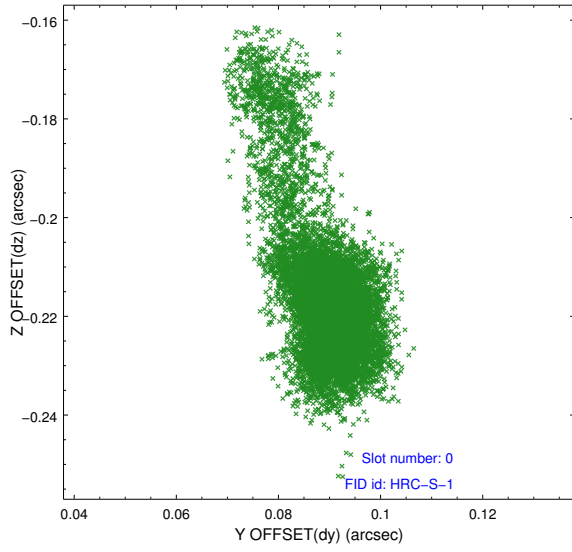


### 2.4.5 Slot 7

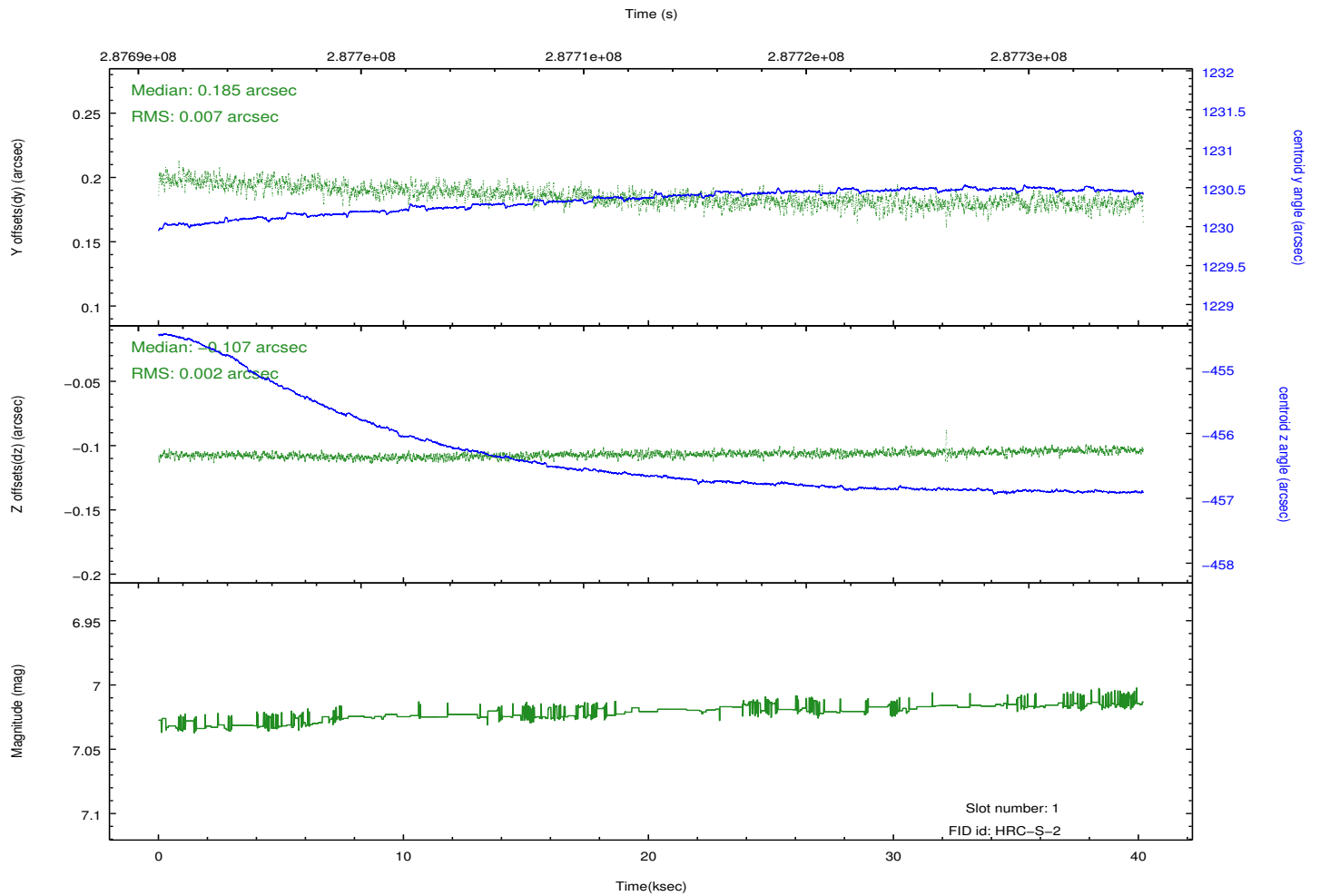
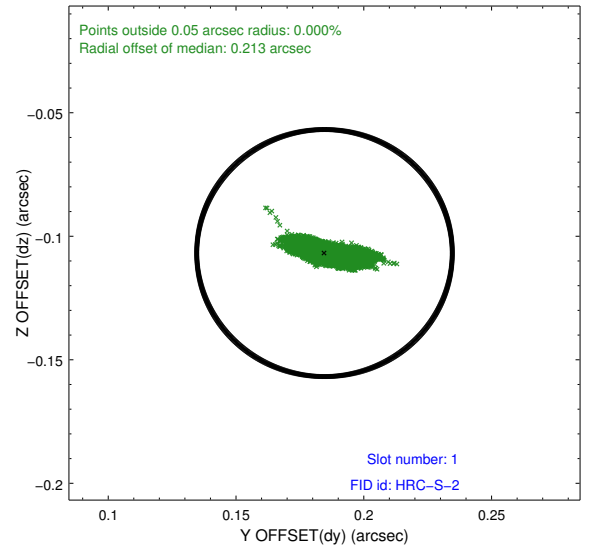
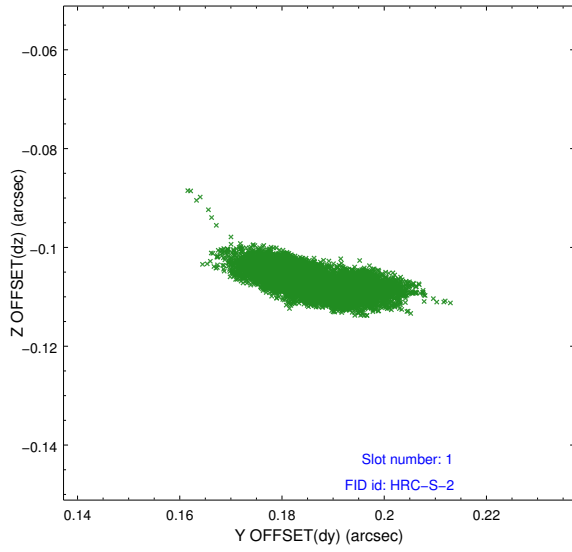


## 2.5 FID Slots

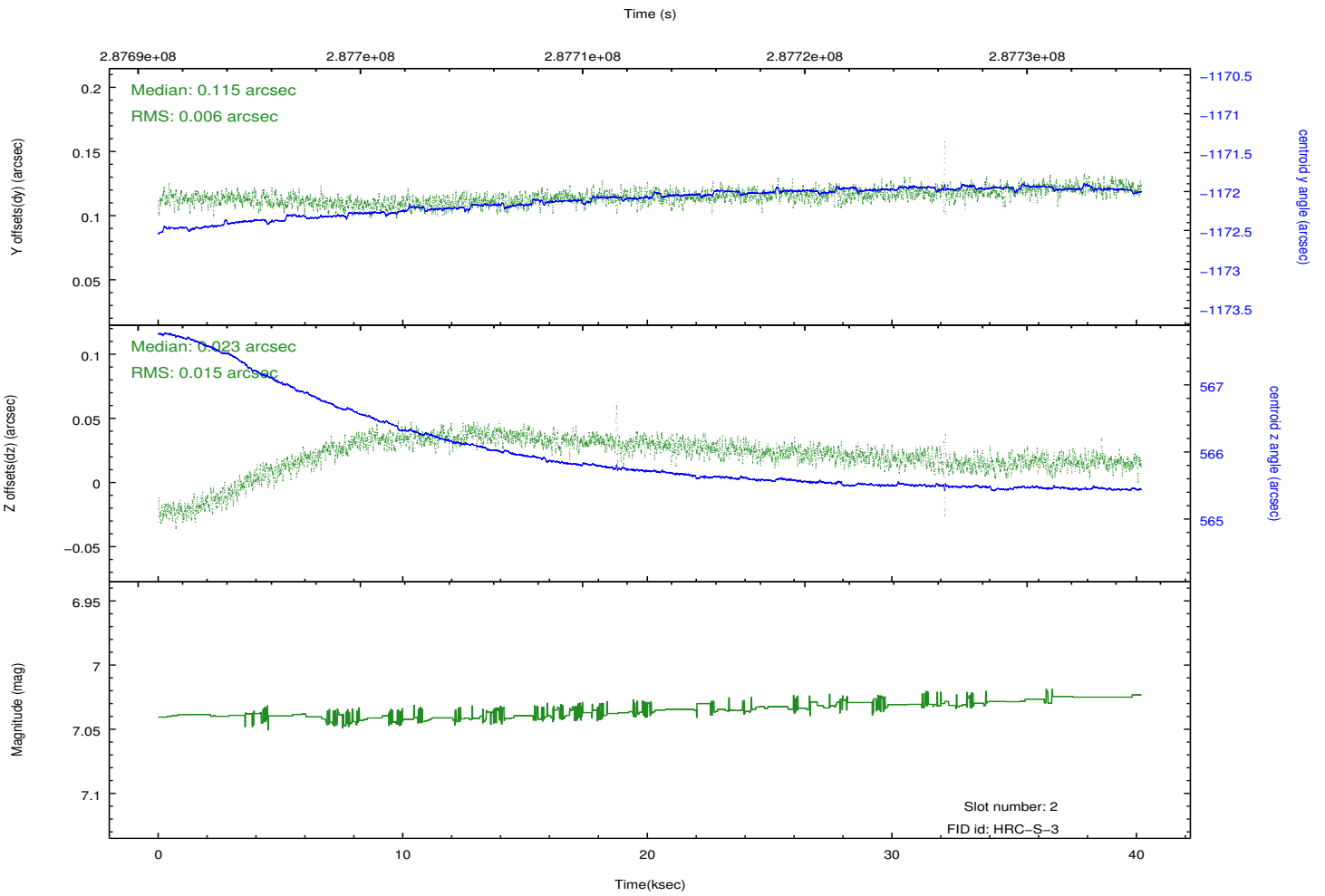
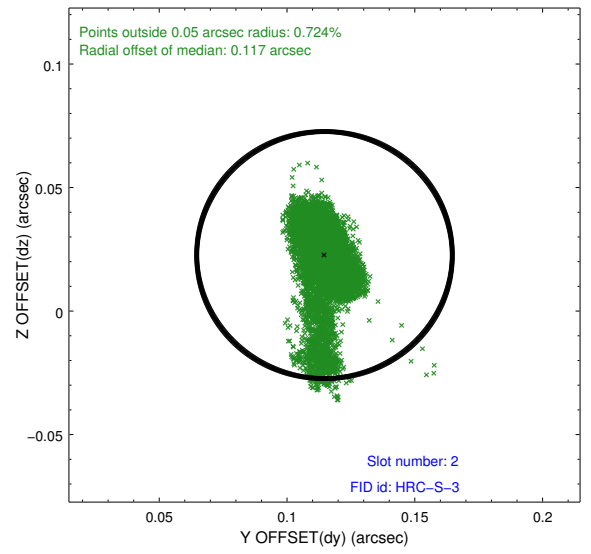
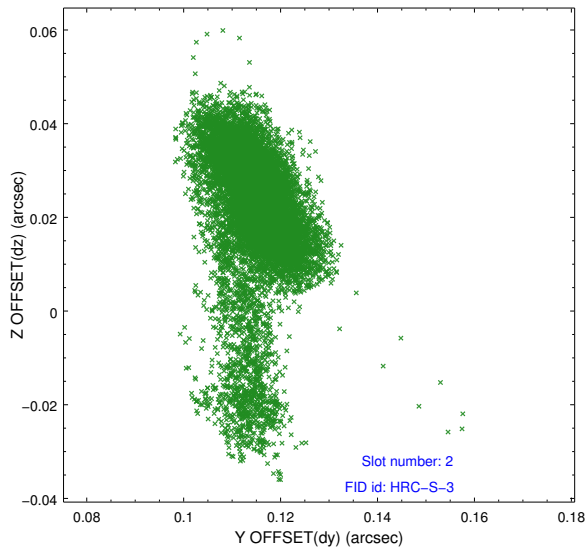
### 2.5.1 Slot 0



## 2.5.2 Slot 1

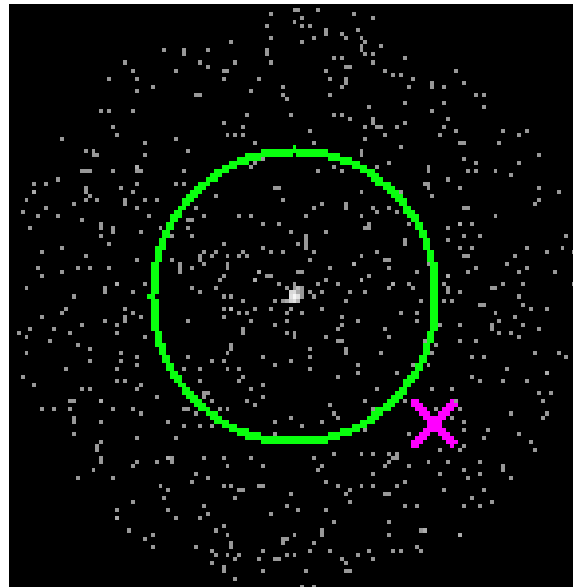


### 2.5.3 Slot 2

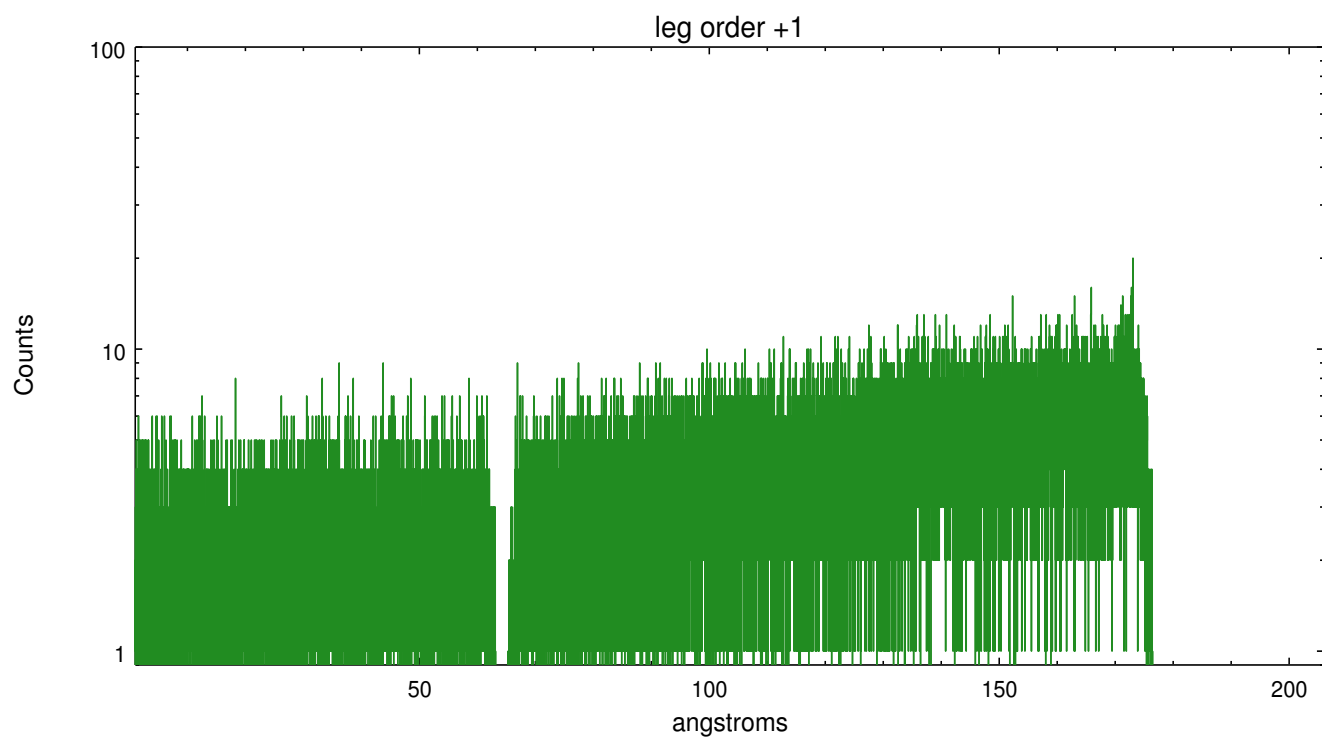
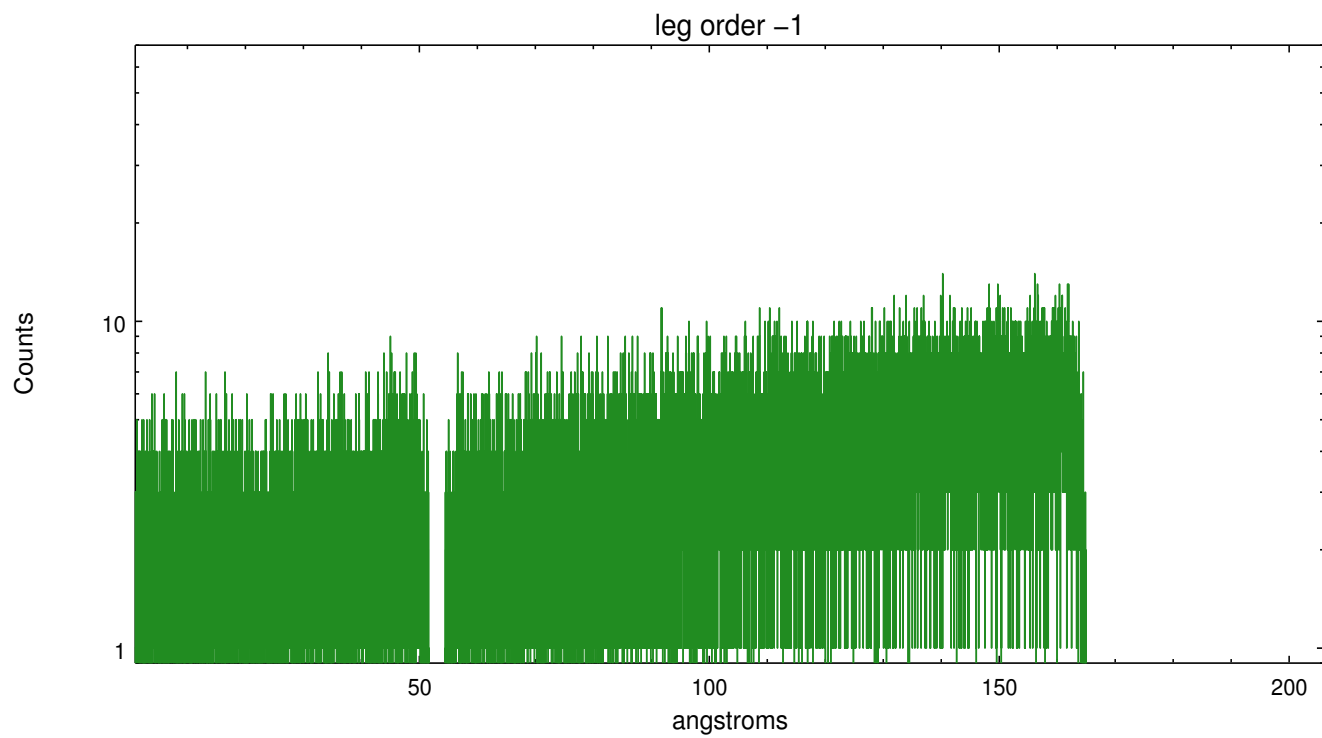


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# 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	40.1851269

## A.2 Comments

Event 1 data file contains some events recorded during movement of the HRC instrument to another position. These events occur at the end of the observation and are not included in the event 2 data. The charge time does not include these spurious events.