

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6474 - L2 Version 4  
Chandra X-Ray Center

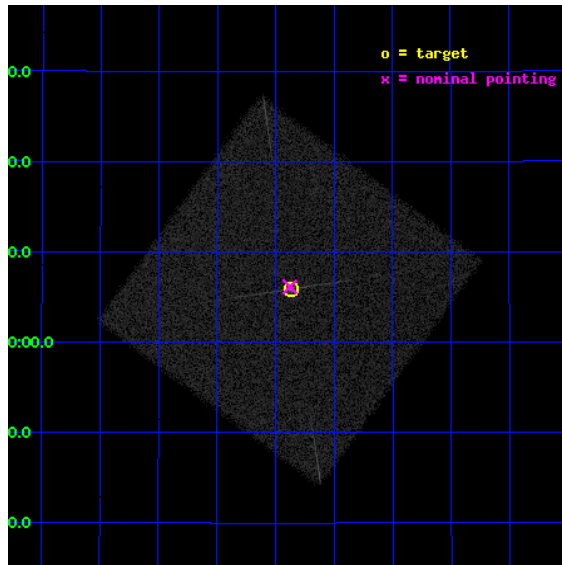
L2 Processing Date : Aug 10 2012

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# 1 Front

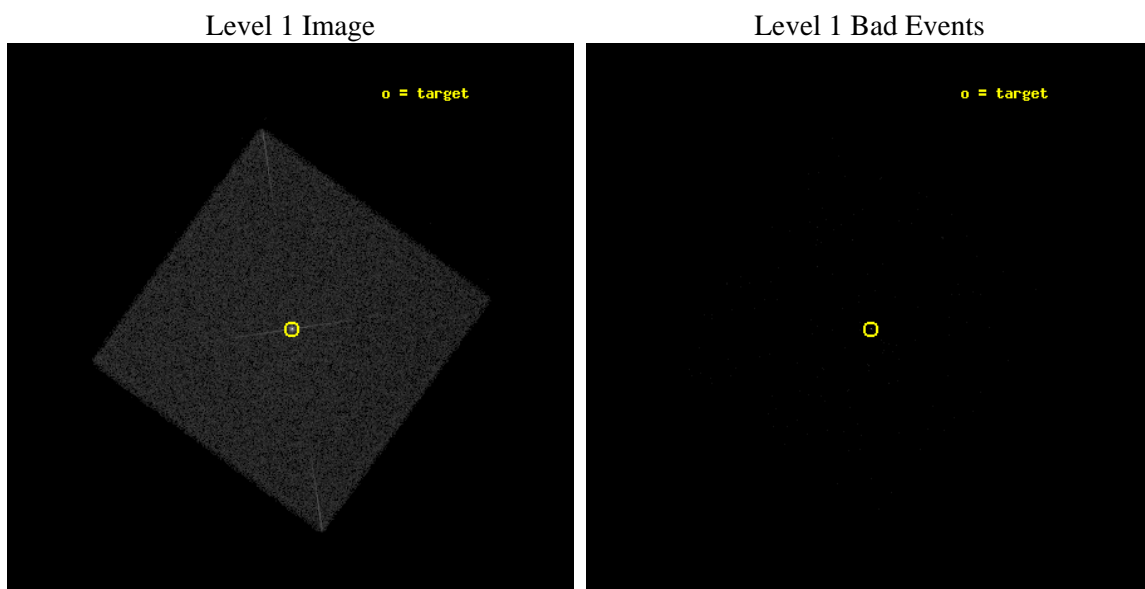
seq_num	290567	Sequence number
obs_id	6474	Observation id
title	AO7 Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.092083	Observer's specified target RA [deg]
dec_targ	29.099	Observer's specified target Dec [deg]
ra_nom	199.09439915987	Nominal RA [deg]
dec_nom	29.10254601856	Nominal Dec [deg]
roll_nom	81.204554668977	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2161.9813502729	[s]
livetime	2144.9175420104	Ontime multiplied by DTCOR
l2events	99074	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2161.9813502729	[s]
caldbver	4.5.1.1	&#160	l1events	187237	Number of level 1 events
date	2012-08-11T00:48:02	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

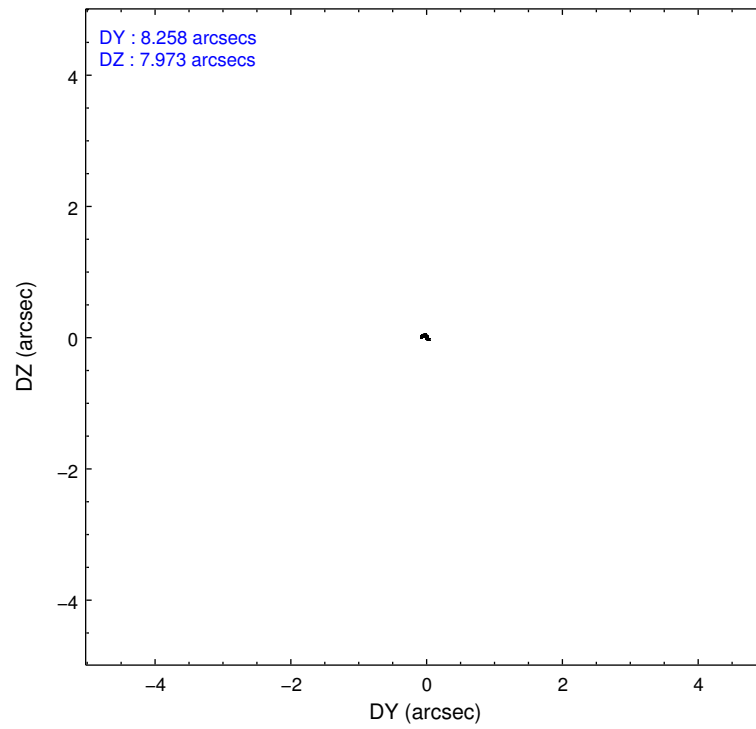
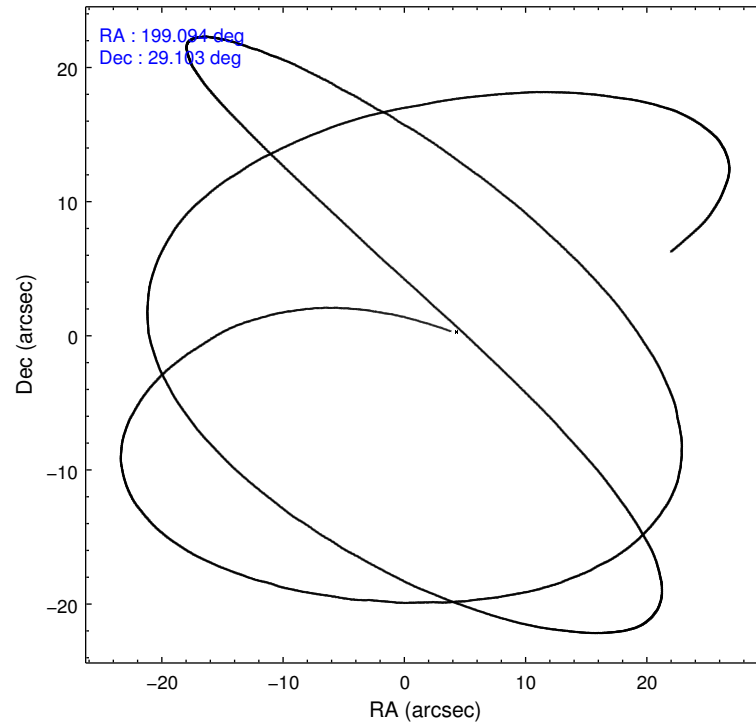
#### Level 1 Events

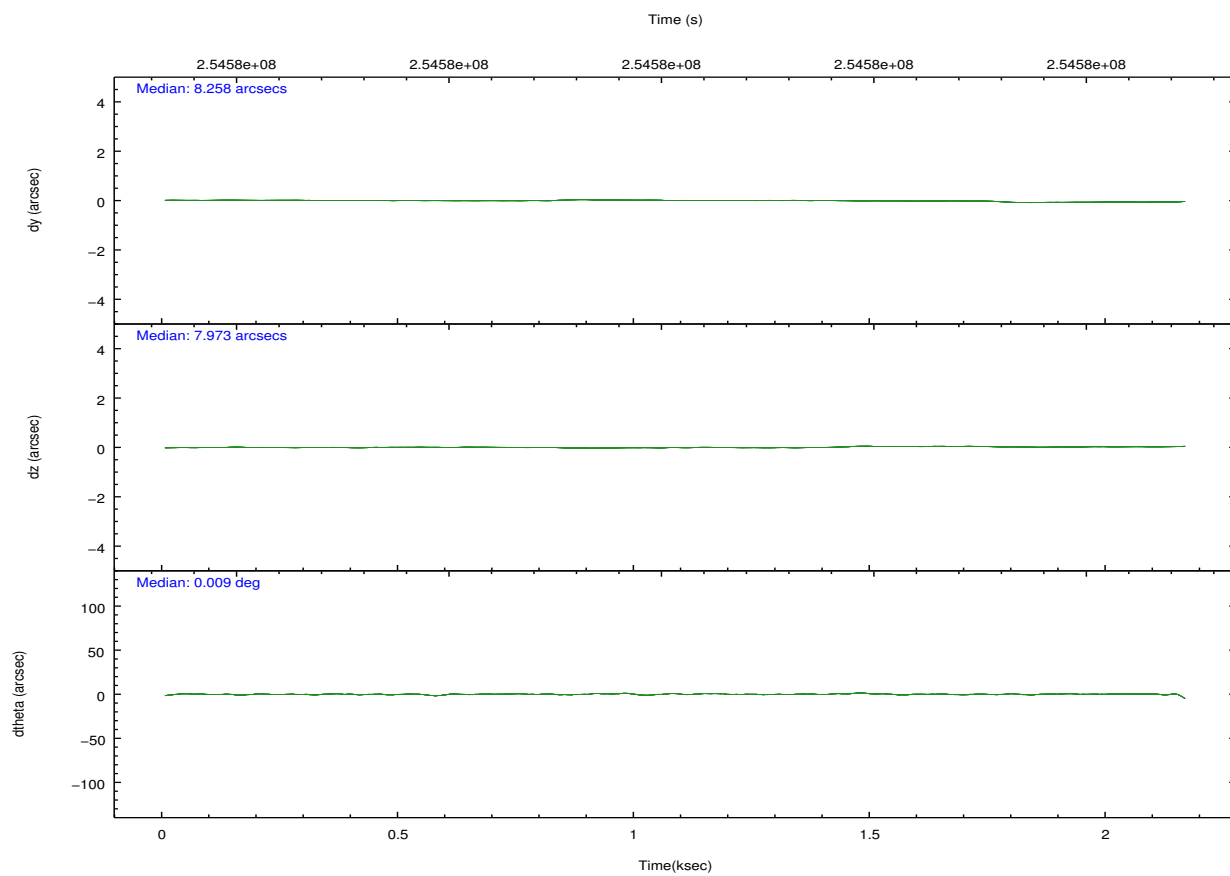
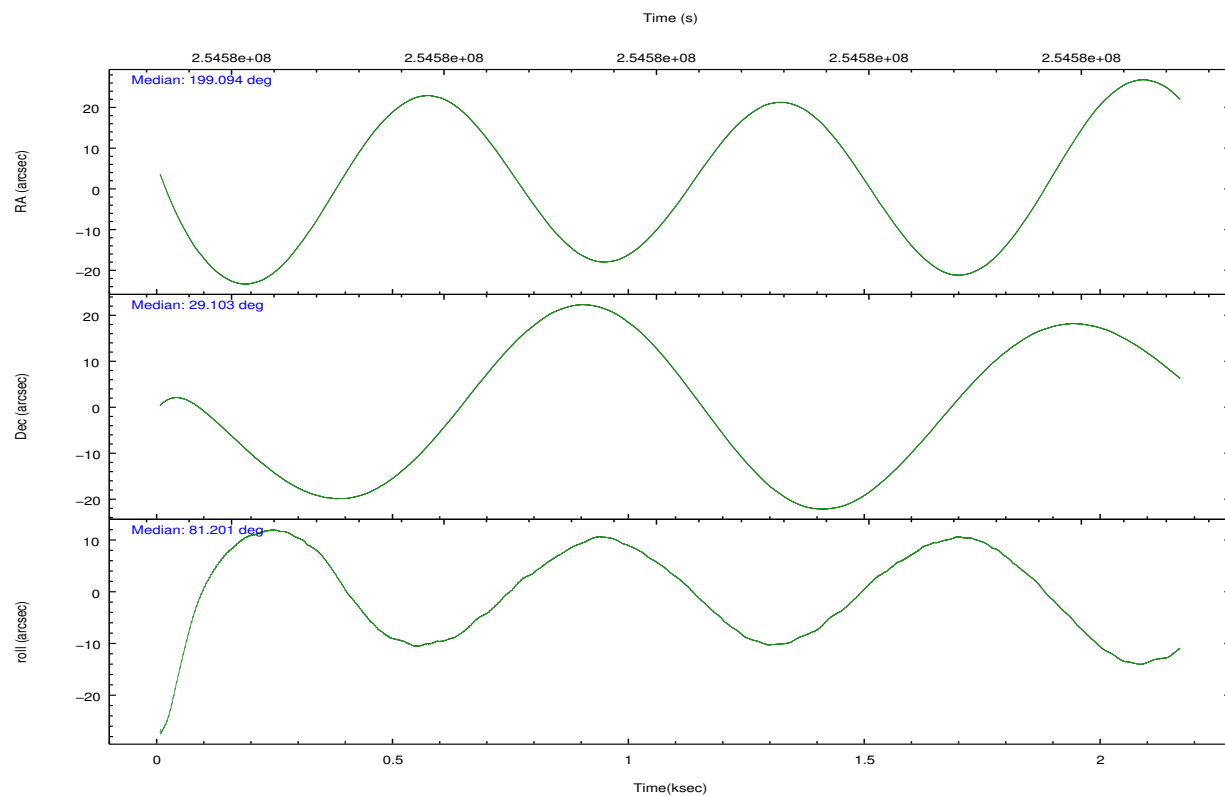
	<b>segment 0</b>
level 1 events	187237
rejected events	44281
rejected %	23%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	199.106458	199.0943991598705			
[deg] Pointing Dec	29.077522	29.10254601855975			
[deg] Pointing Roll	81.294279	81.2045546689771			
[s] Window start time (MET)	249782464.184000	249782464.184000			
[s] Window stop time (MET)	255052865.184000	255052865.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	254583115.184000	254582301.26427			
Observation start date	2006-01-25T13:30:50	2006-01-25T13:18:21			
[s] Observation end time (MET)	254585115.184000	254586018.93944			
Observation end date	2006-01-25T14:04:10	2006-01-25T14:20:18			

## 2.3 Aspect





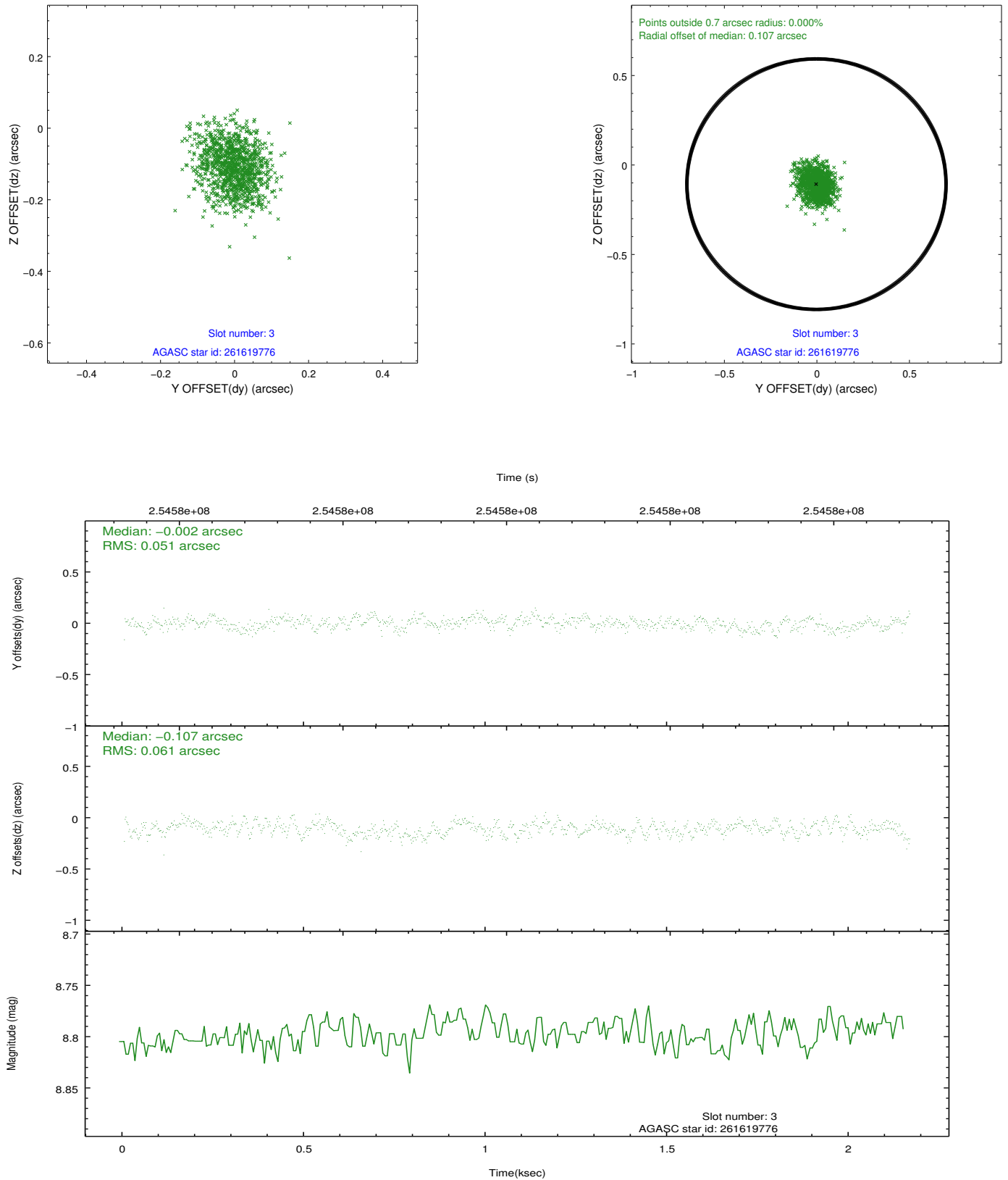
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	528	-0.005	0.046	0.007	0.011	0.000000	0.000000	-763.88	-1295.80
1	FID	HRC-I-2	7.02	528	0.155	-0.127	0.006	0.011	0.000000	0.000000	847.46	-1300.01
2	FID	HRC-I-3	7.07	528	-0.032	-0.008	0.006	0.010	0.000000	0.000000	-1190.77	1006.25
3	GUIDE	261619776	8.80	1055	-0.002	-0.107	0.085	0.132	198.654383	29.401174	939.80	1577.46
4	GUIDE	261621400	6.96	1056	0.072	-0.168	0.061	0.098	198.901600	28.741982	-1290.15	457.43
5	GUIDE	261623040	9.14	1055	-0.226	-0.098	0.080	0.131	198.792686	29.757643	2271.85	1340.23
6	GUIDE	261624456	7.31	1056	0.044	0.197	0.067	0.102	199.758056	28.567828	-1493.16	-2311.92
7	GUIDE	261629720	8.12	1055	0.109	0.187	0.068	0.111	199.236176	29.044452	-56.67	-424.02

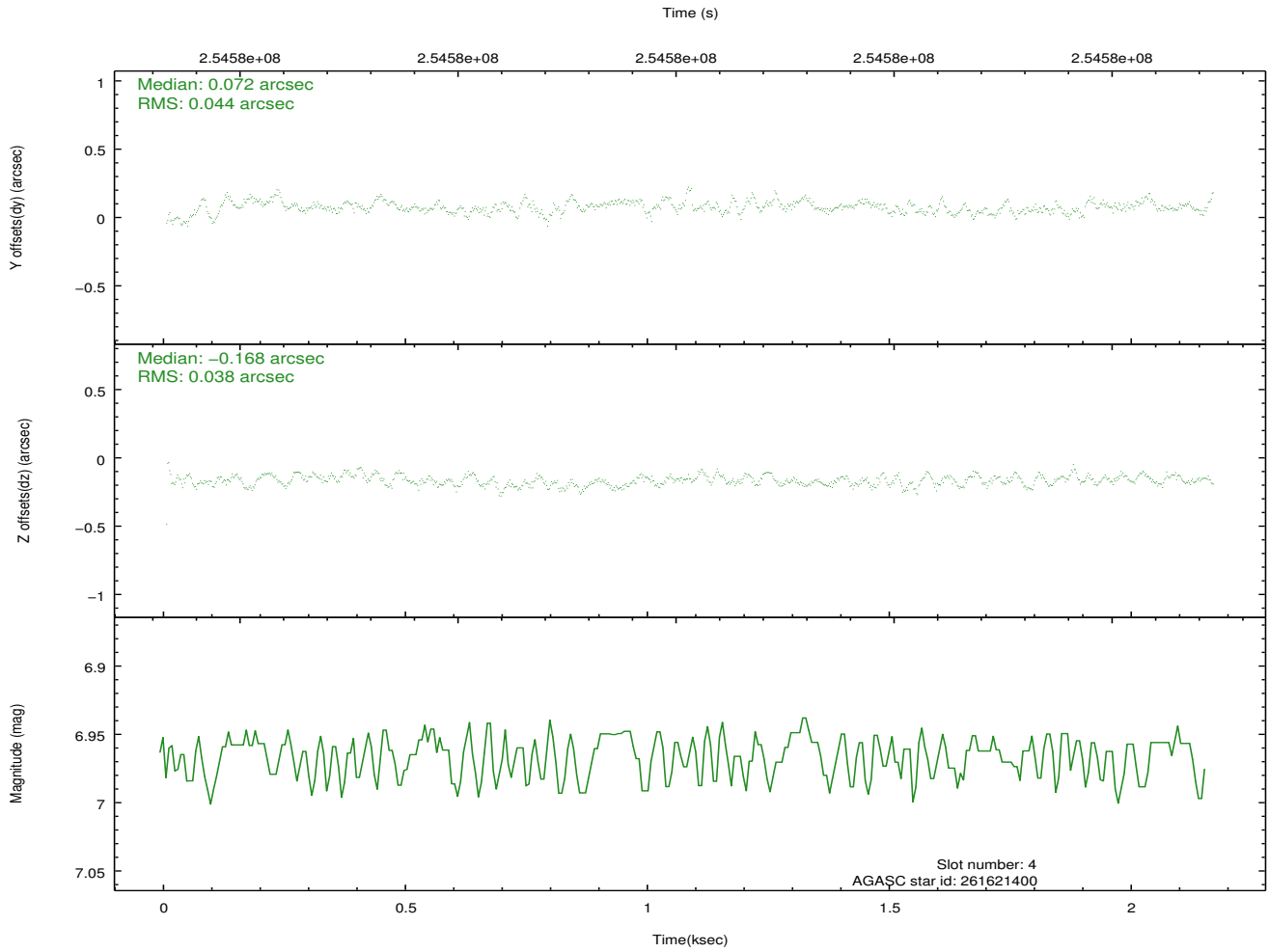
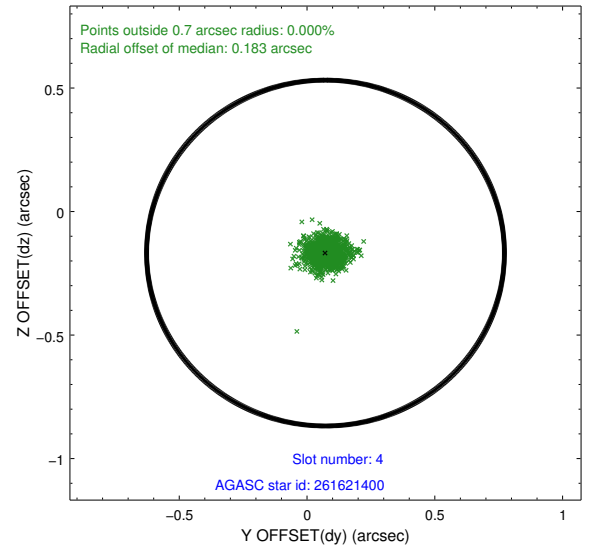
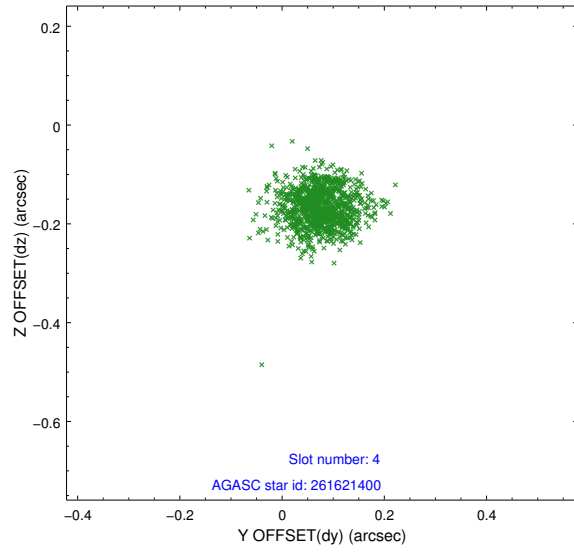


## 2.4 Star Slots

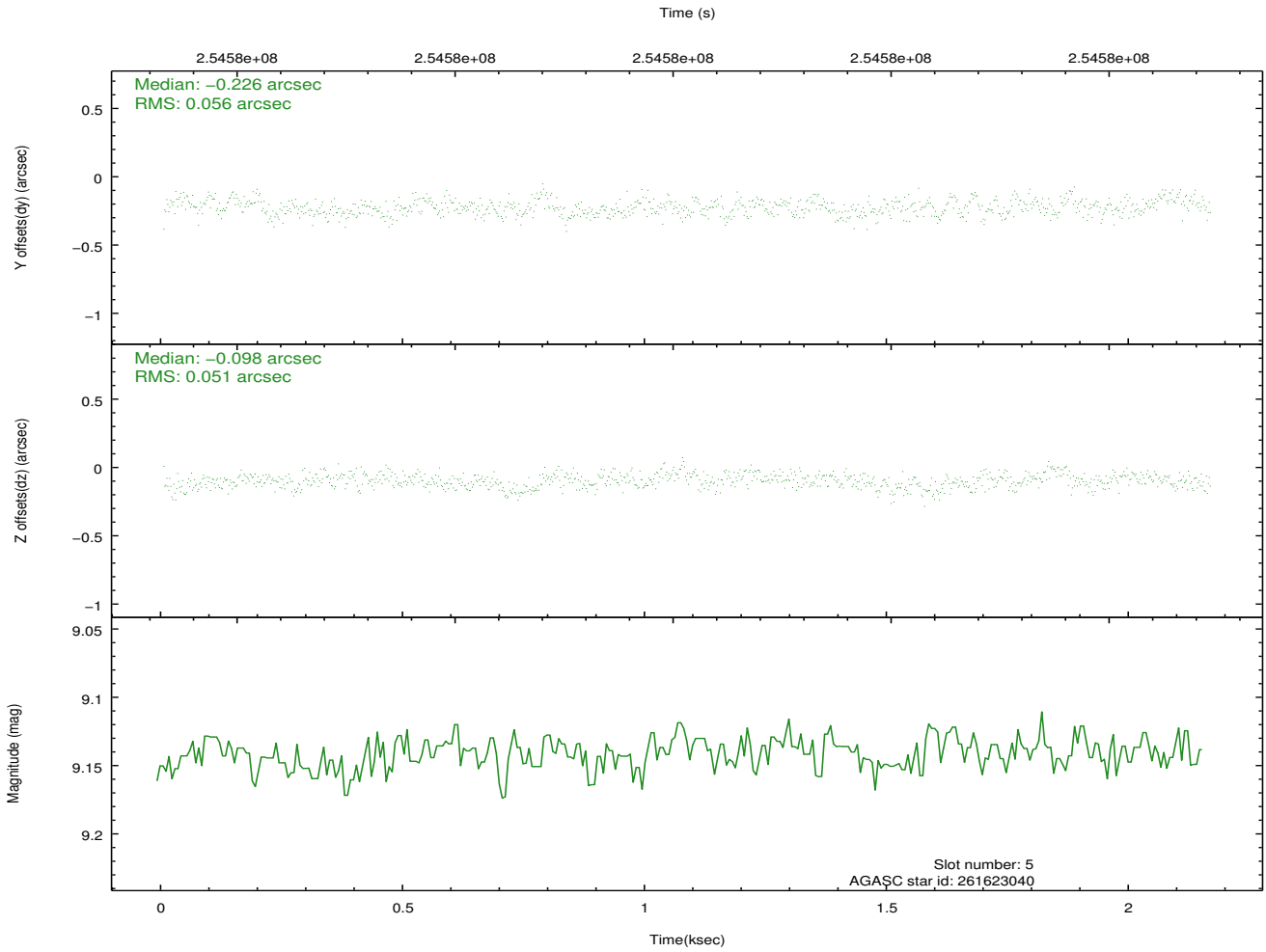
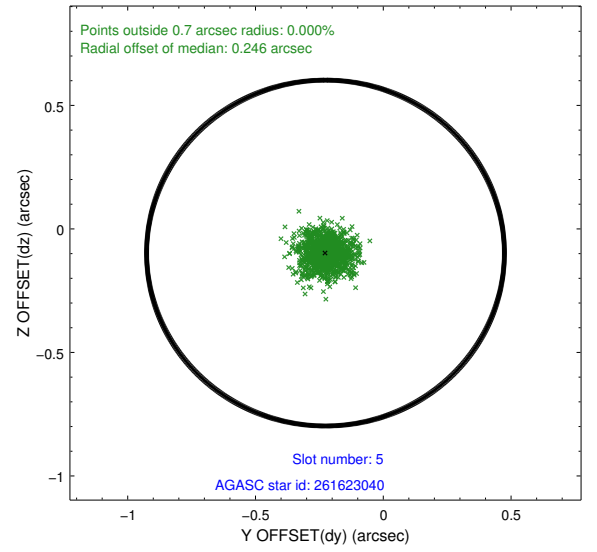
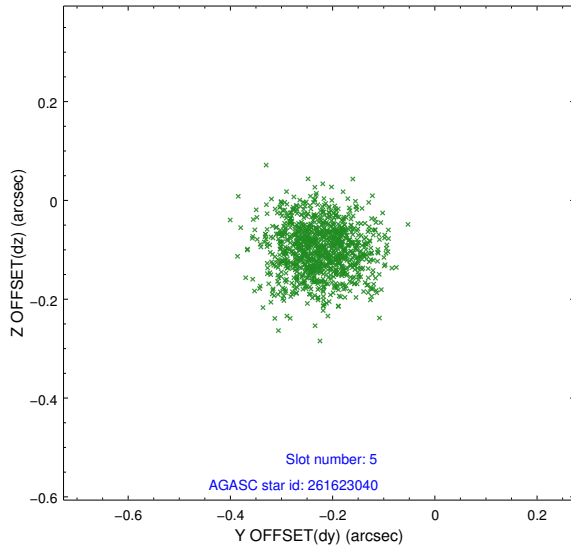
### 2.4.1 Slot 3



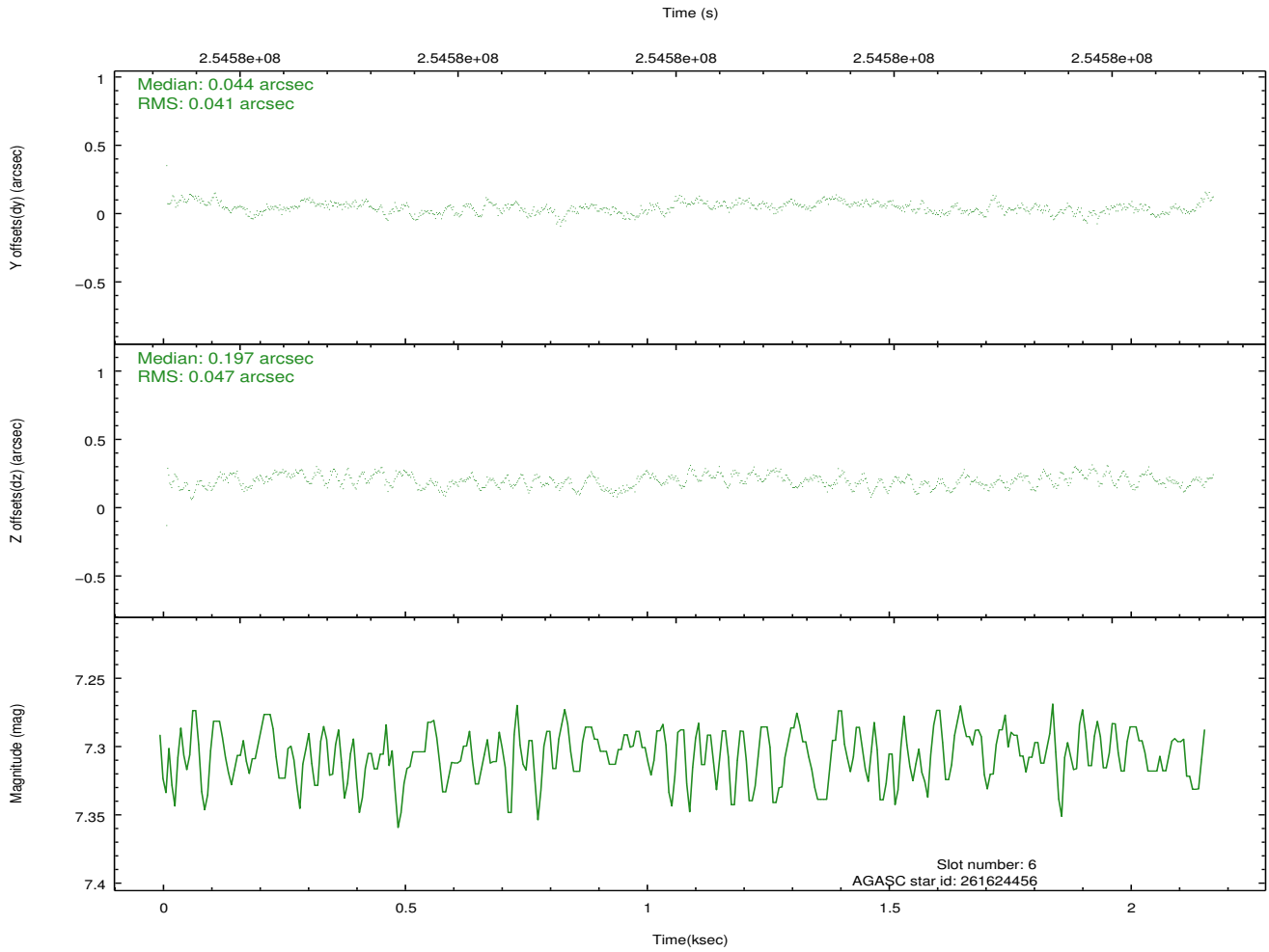
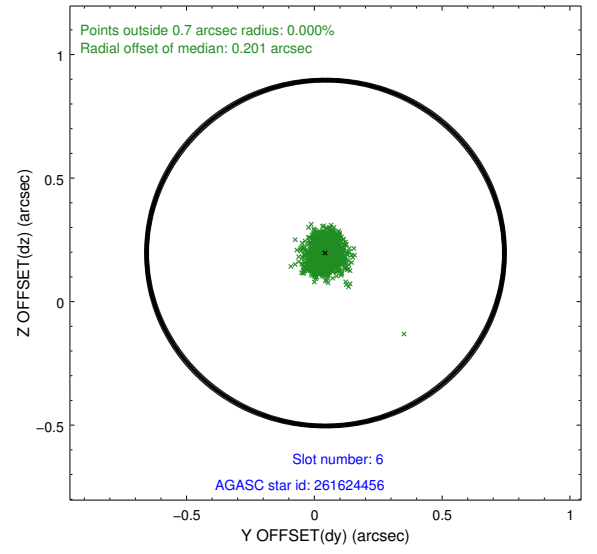
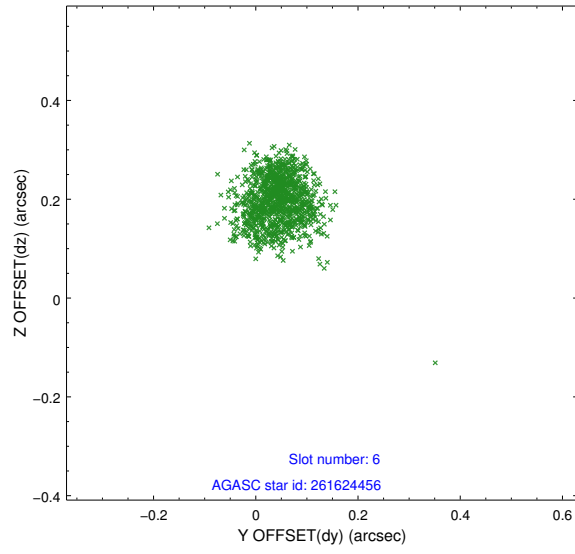
## 2.4.2 Slot 4



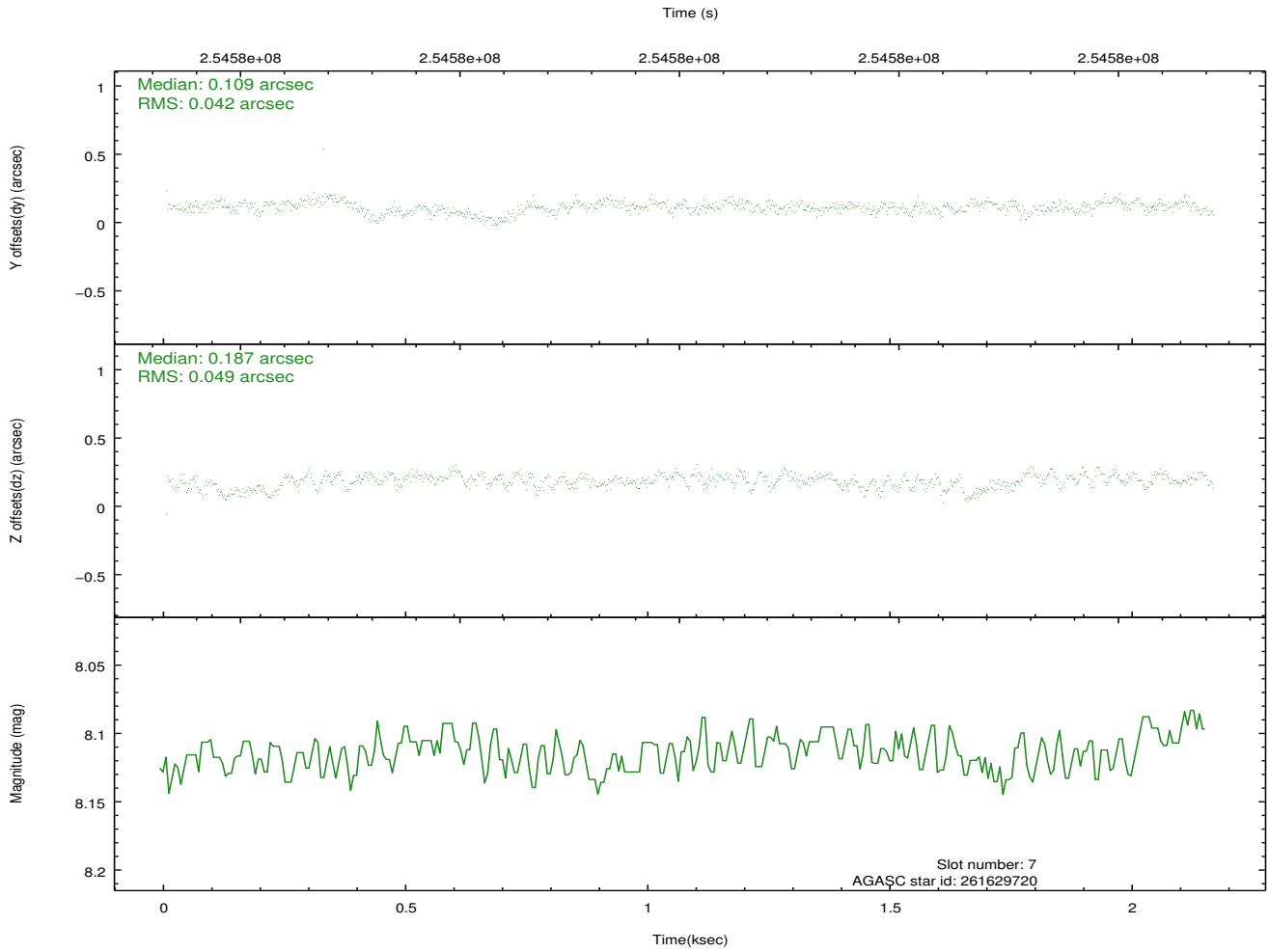
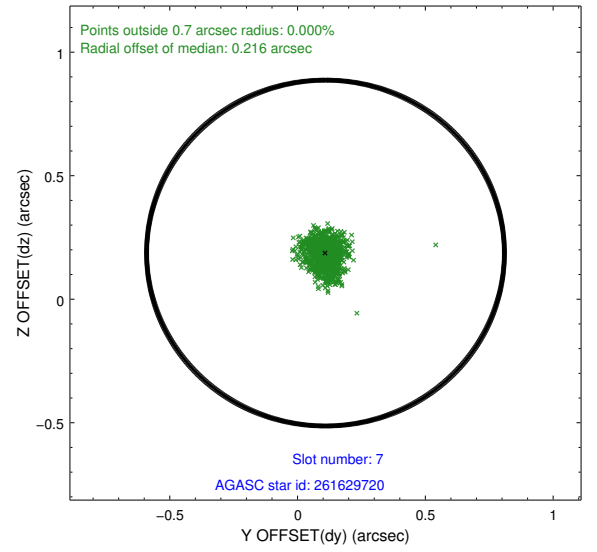
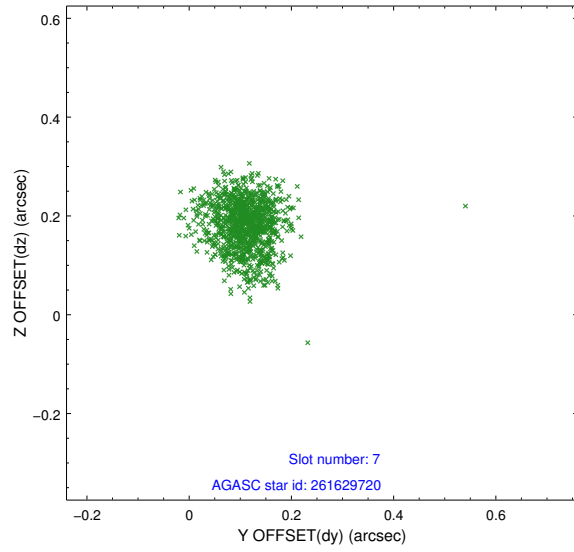
### 2.4.3 Slot 5



## 2.4.4 Slot 6

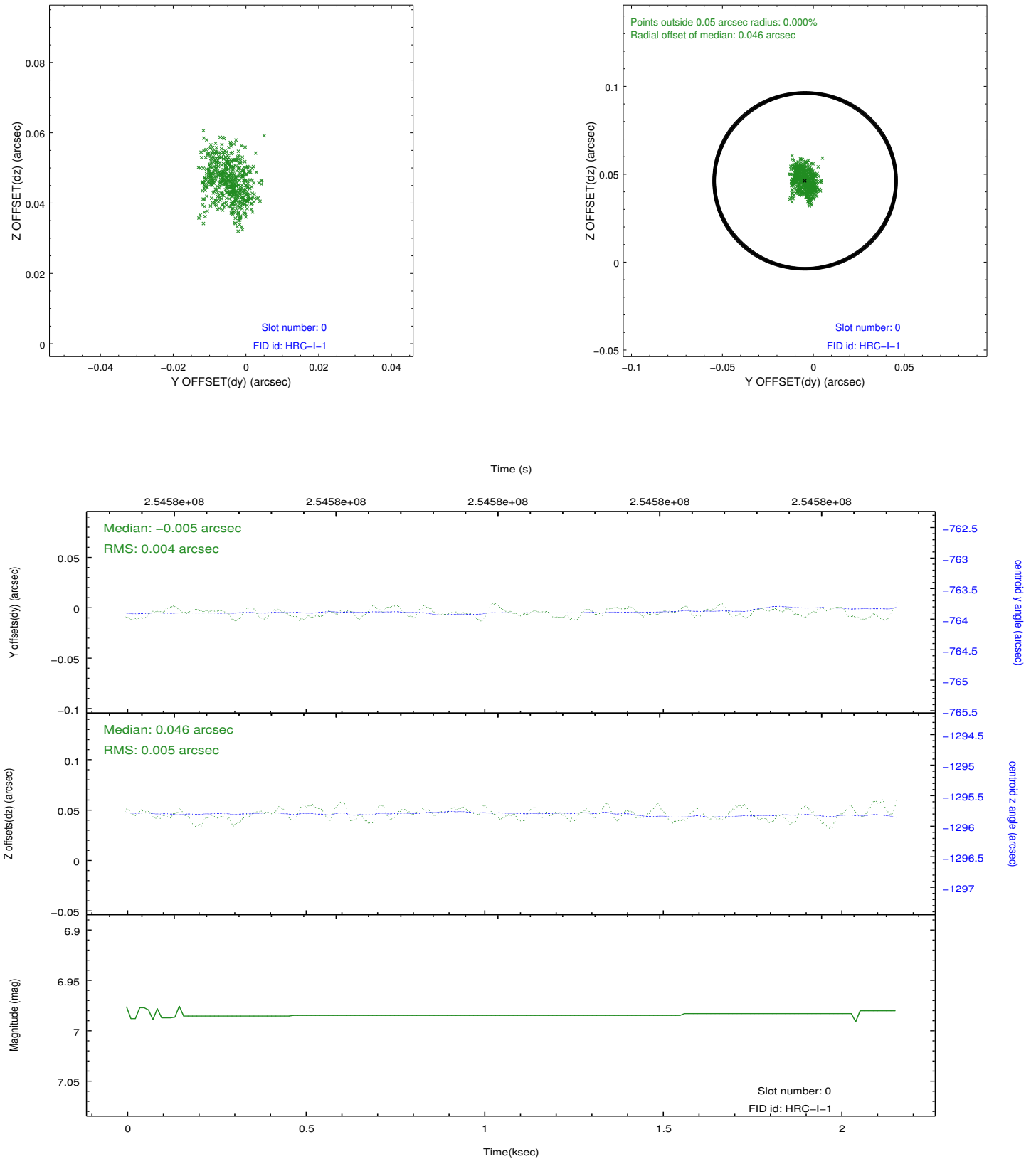


## 2.4.5 Slot 7

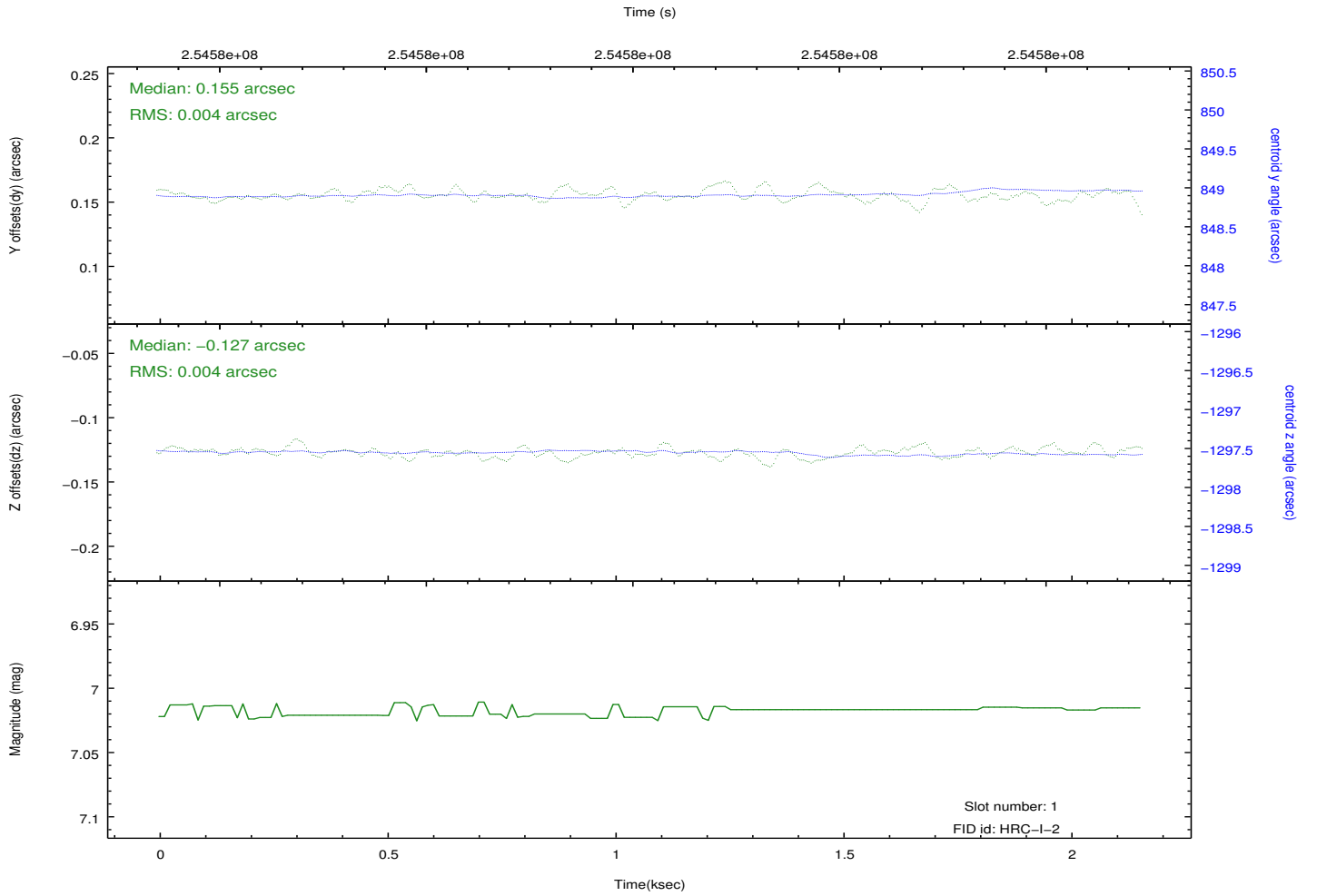
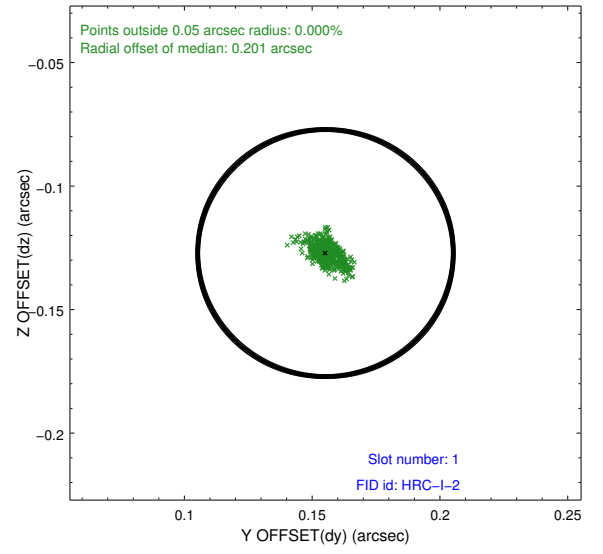
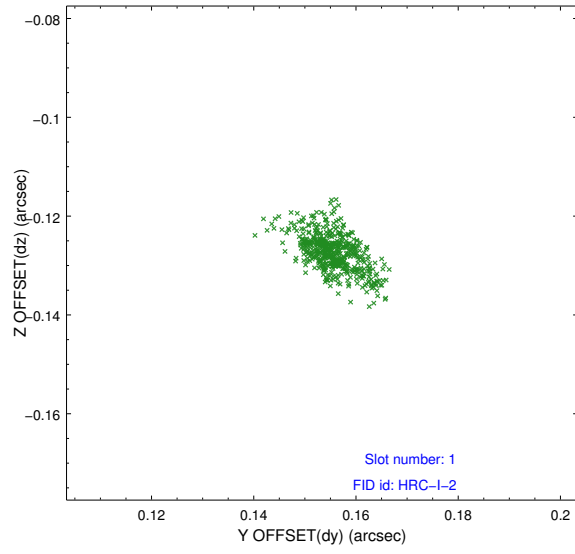


## 2.5 FID Slots

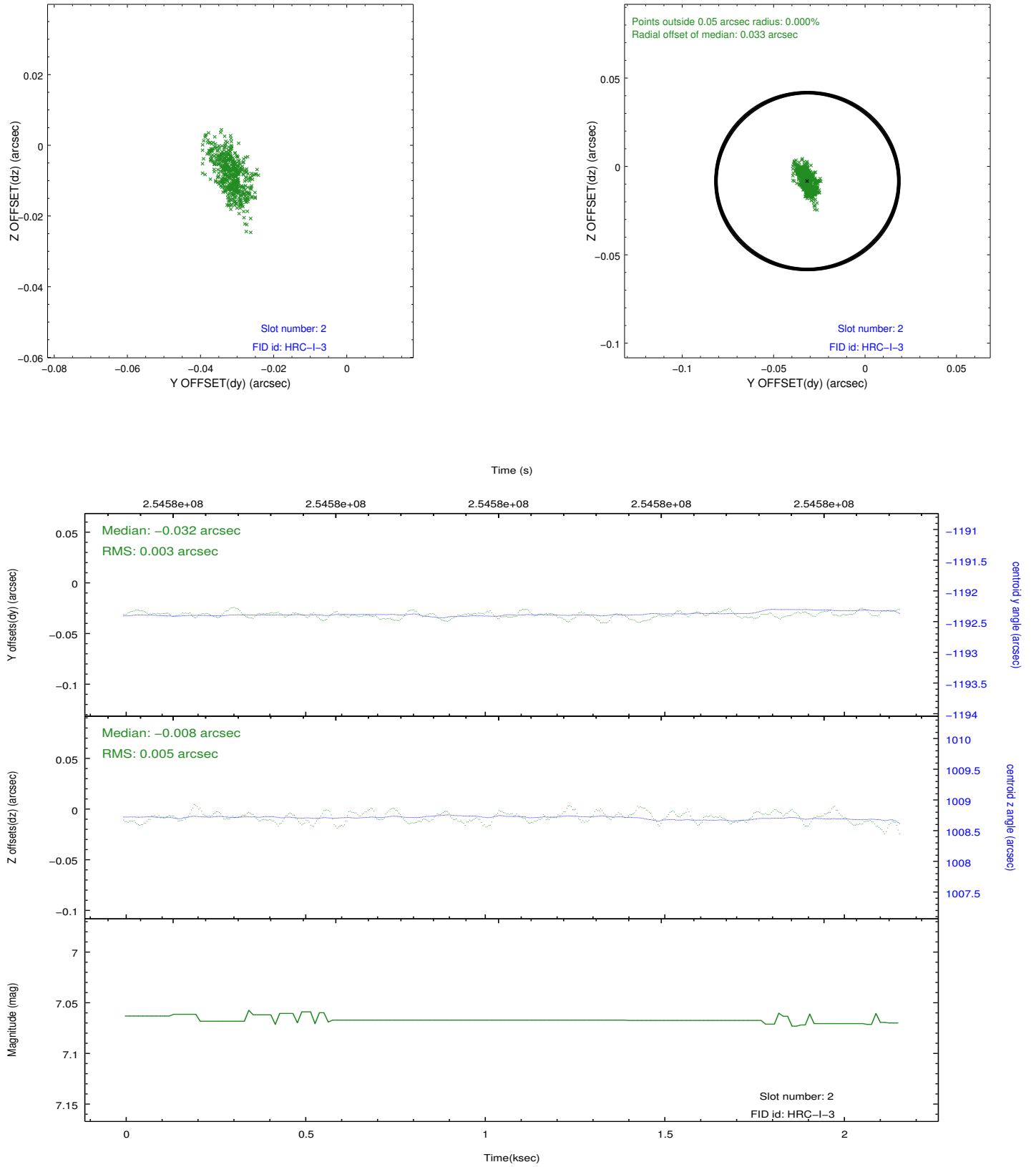
### 2.5.1 Slot 0



## 2.5.2 Slot 1



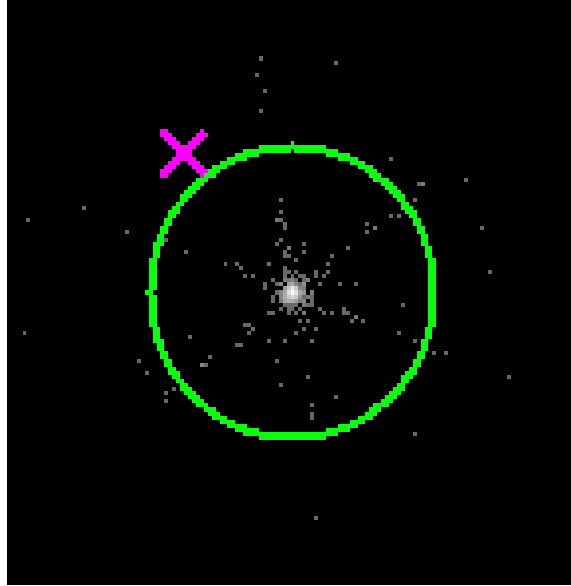
### 2.5.3 Slot 2



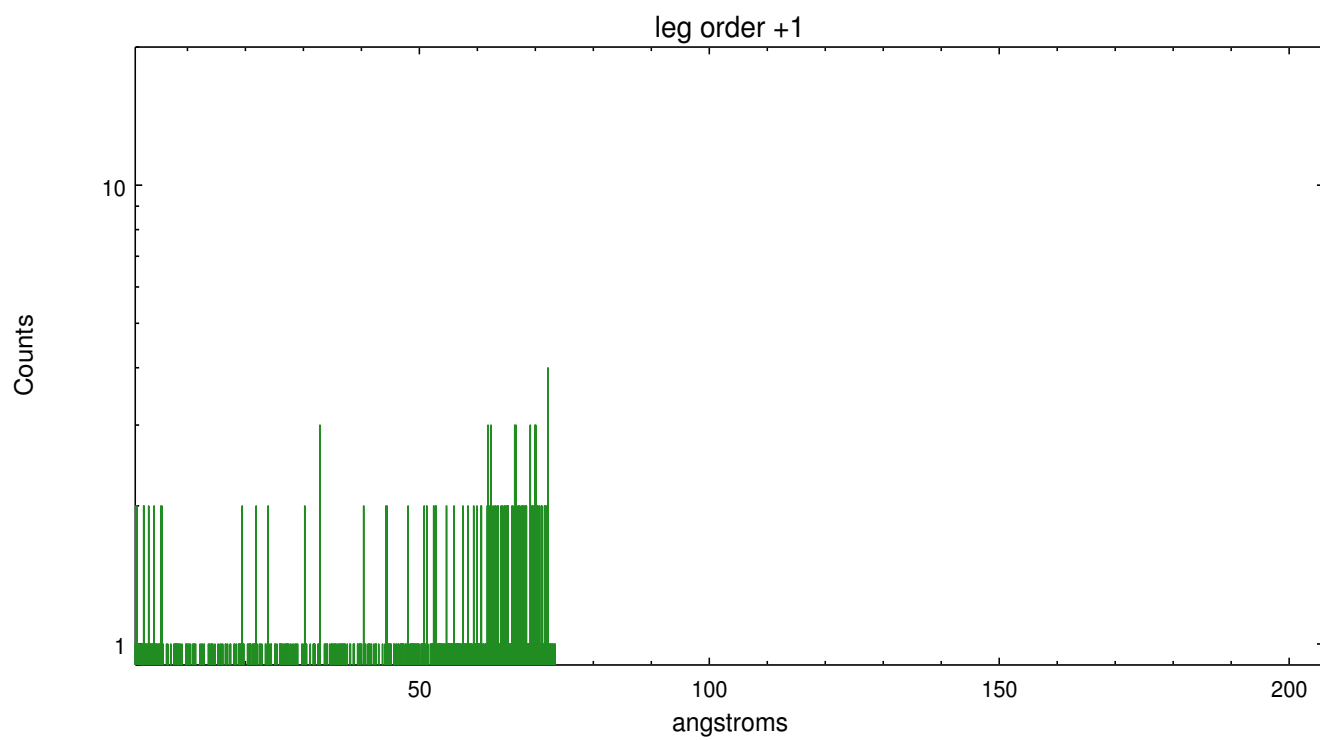
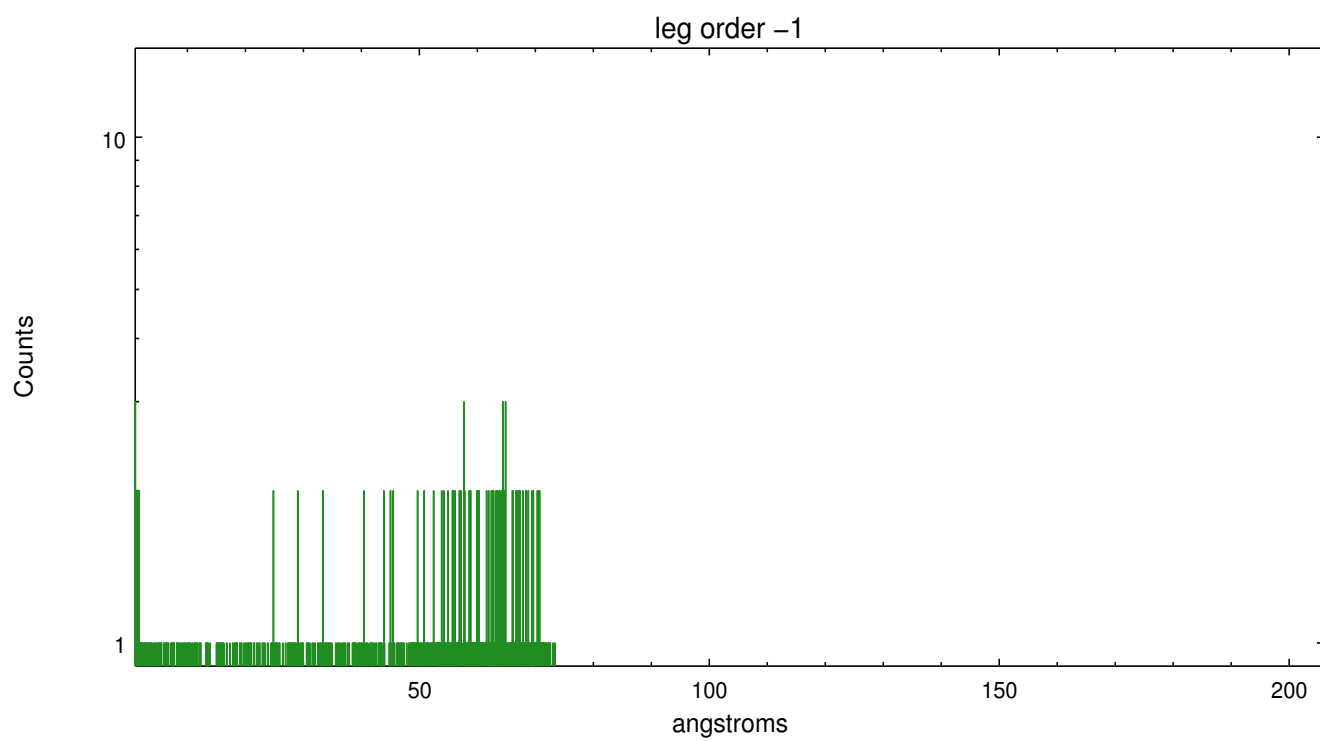


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.16198135

### A.2 Comments

Target is not at requested coordinates. It's possible the proper motion correction has been applied incorrectly.