

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13046 - L2 Version 3  
Chandra X-Ray Center

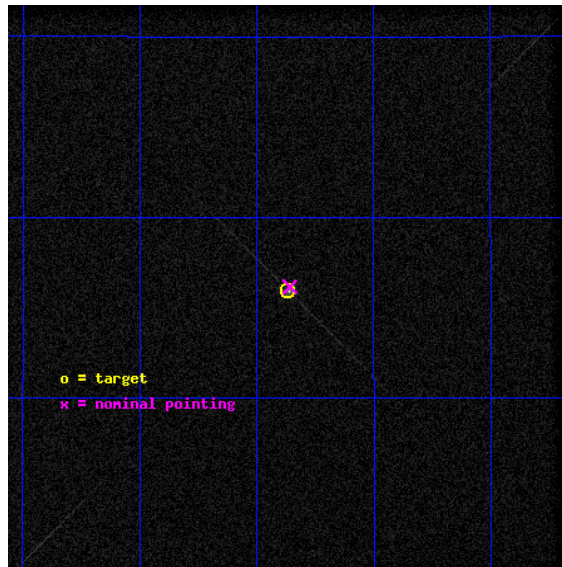
L2 Processing Date : Jul 27 2012

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# 1 Front

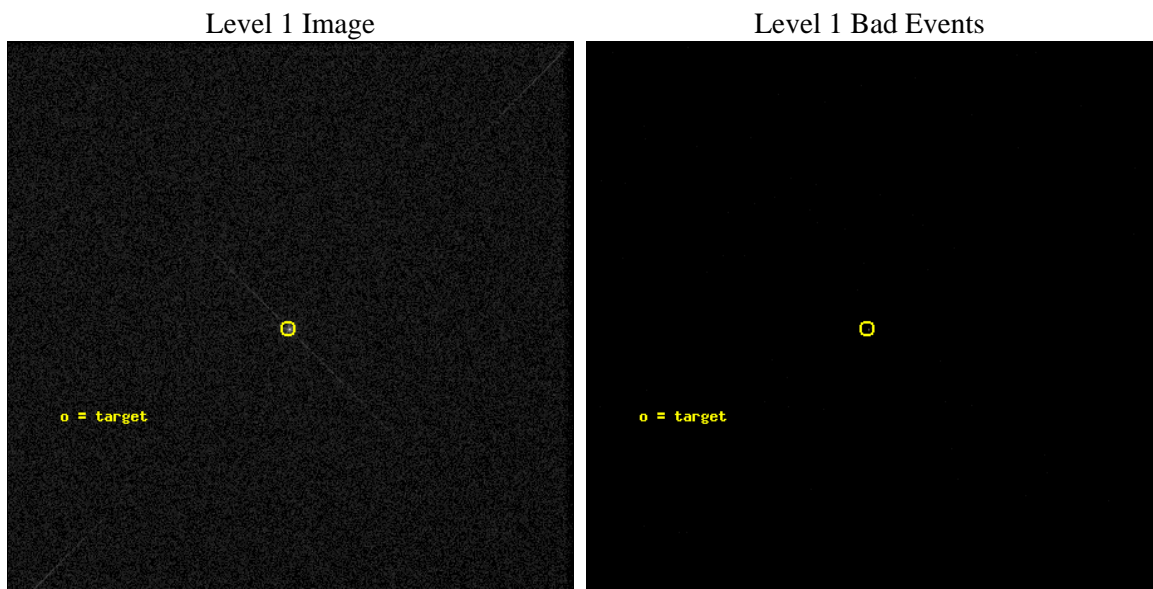
seq_num	290965	Sequence number
obs_id	13046	Observation id
title	AO-12 Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.092083	Observer's specified target RA [deg]
dec_targ	29.099	Observer's specified target Dec [deg]
ra_nom	199.08974905028	Nominal RA [deg]
dec_nom	29.102650274893	Nominal Dec [deg]
roll_nom	134.65237726046	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2143.5313610435	[s]
livetime	2121.35994718	Ontime multiplied by DTCOR
l2events	156545	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	2143.5313610435	[s]
caldbver	4.5.1	&#160	l1events	307910	Number of level 1 events
date	2012-07-27T23:17:42	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

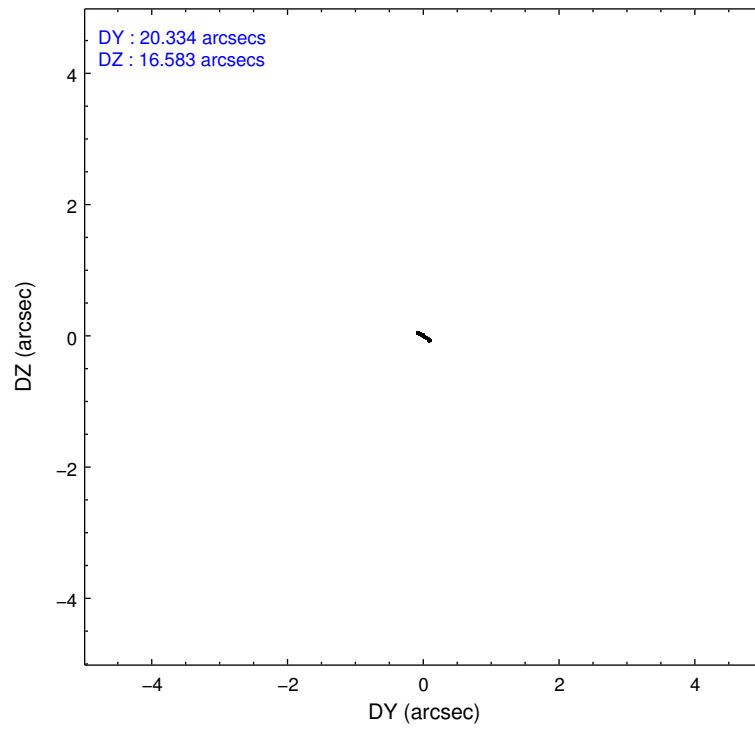
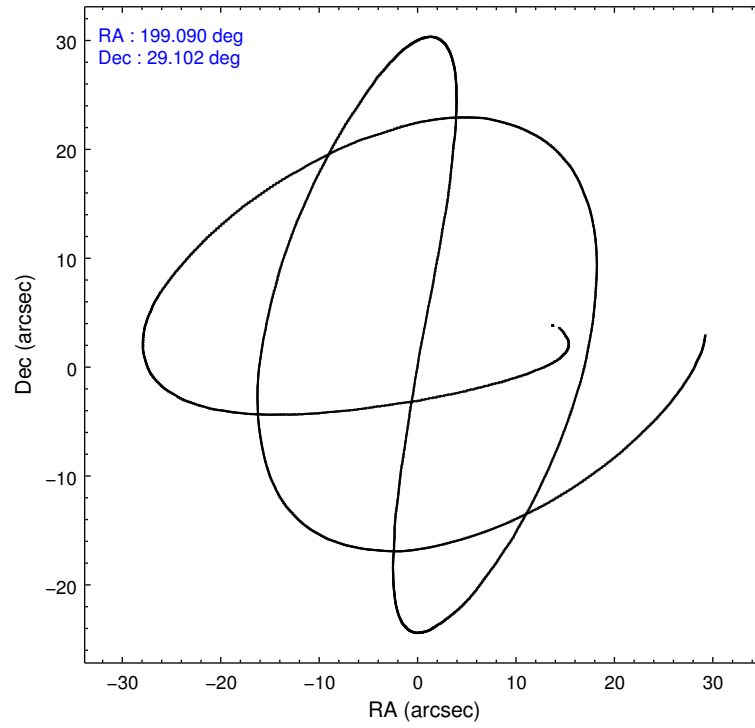
#### Level 1 Events

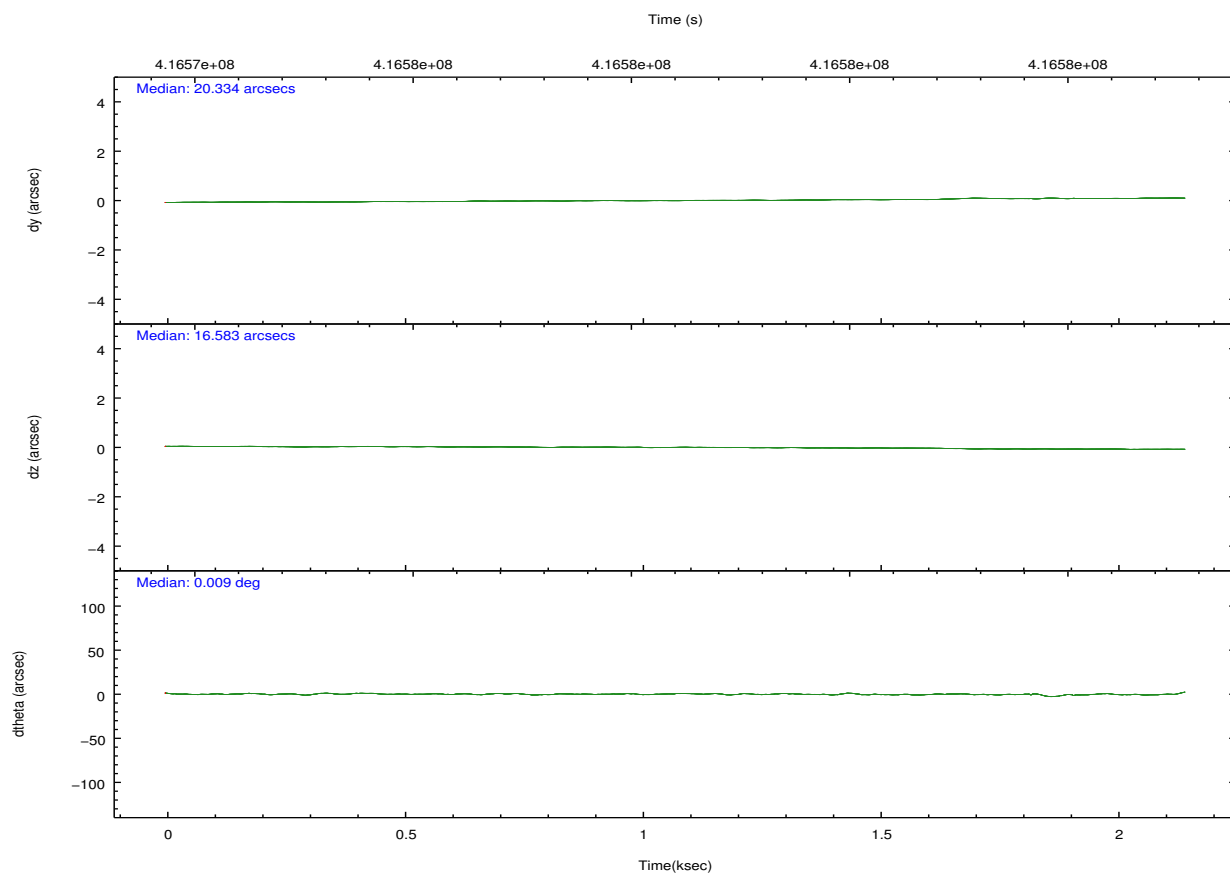
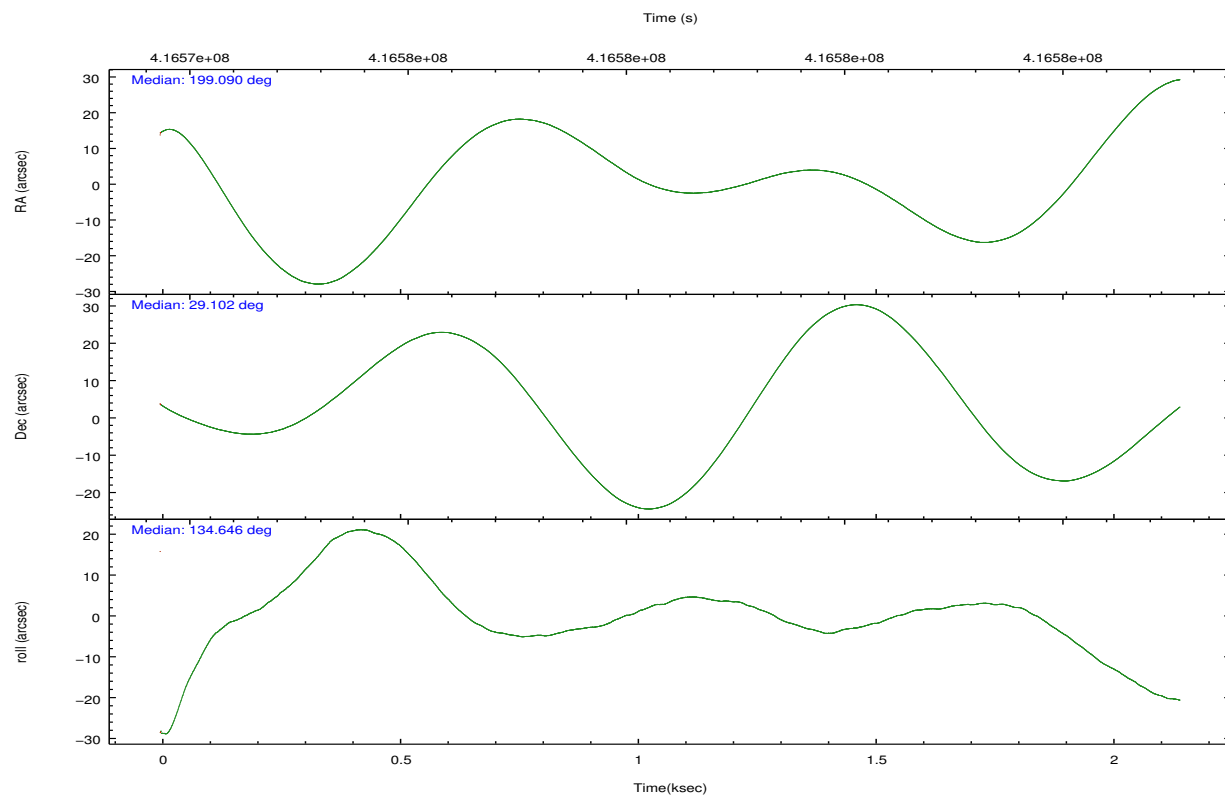
	<b>segment 0</b>
level 1 events	307910
rejected events	90672
rejected %	29%

## 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	199.120391	199.089749050277			
[deg] Pointing Dec	29.096289	29.1026502748929			
[deg] Pointing Roll	134.733039	134.6523772604565			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	416574667.184000	416573645.70093			
Observation start date	2011-03-15T11:10:01	2011-03-15T10:54:05			
[s] Observation end time (MET)	416576667.184000	416577720.07614			
Observation end date	2011-03-15T11:43:21	2011-03-15T12:02:00			

## 2.3 Aspect





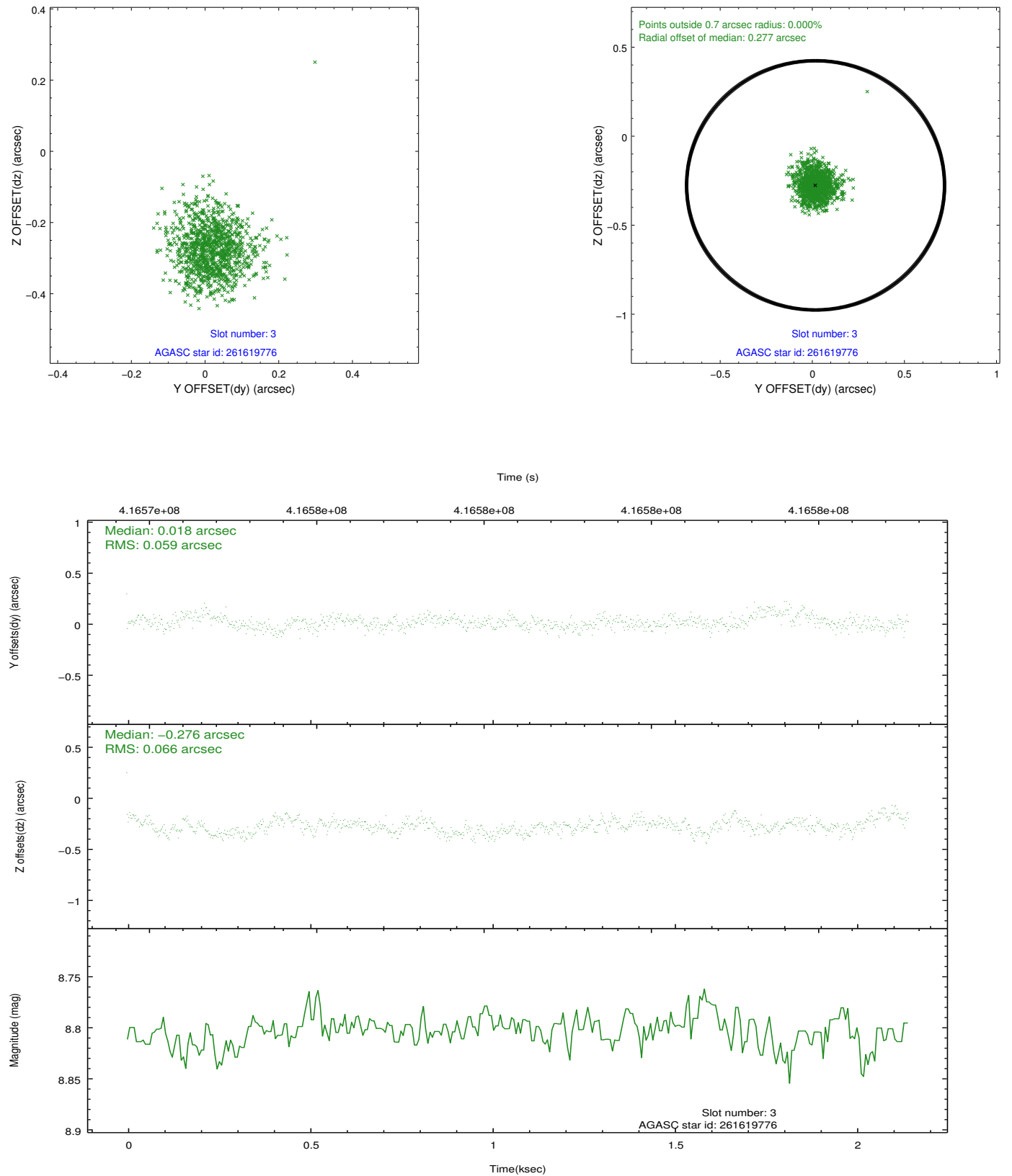
### Slot Statistics

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	524	-0.056	0.028	0.007	0.012	0.000000	0.000000	-776.35	-1304.73
1	FID	HRC-I-2	7.00	524	0.206	-0.124	0.007	0.013	0.000000	0.000000	835.06	-1308.94
2	FID	HRC-I-3	7.06	524	-0.032	0.005	0.007	0.017	0.000000	0.000000	-1203.21	997.32
3	GUIDE	261619776	8.80	1046	0.018	-0.276	0.092	0.149	198.654383	29.401174	1809.60	262.19
4	GUIDE	261621400	6.98	1047	-0.116	-0.221	0.083	0.132	198.901600	28.741982	-417.89	1386.65
5	GUIDE	261626376	9.68	1034	0.109	0.054	0.181	0.293	198.947288	29.347445	1024.86	-250.41
6	GUIDE	261629720	8.12	1047	0.180	0.264	0.083	0.136	199.236176	29.044452	-387.79	-129.10
7	GUIDE	261623040	9.13	1046	-0.197	0.180	0.116	0.178	198.792686	29.757643	2412.70	-950.24

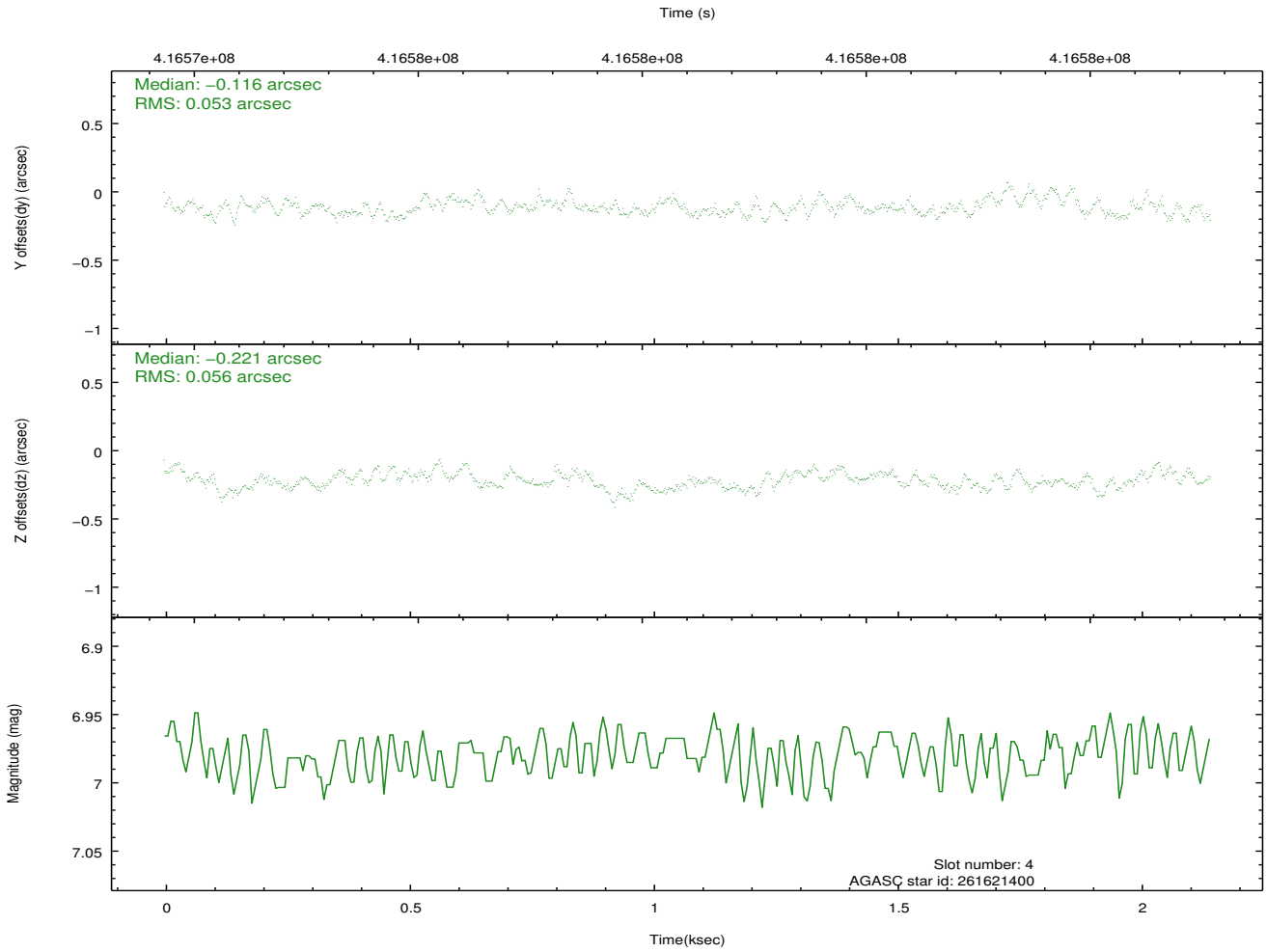
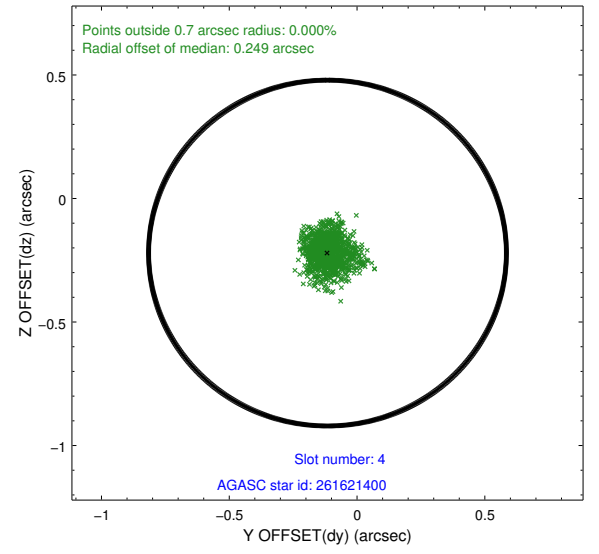
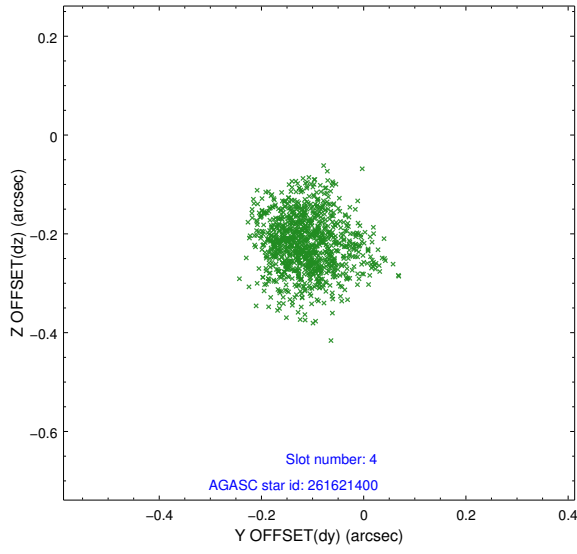


## 2.4 Star Slots

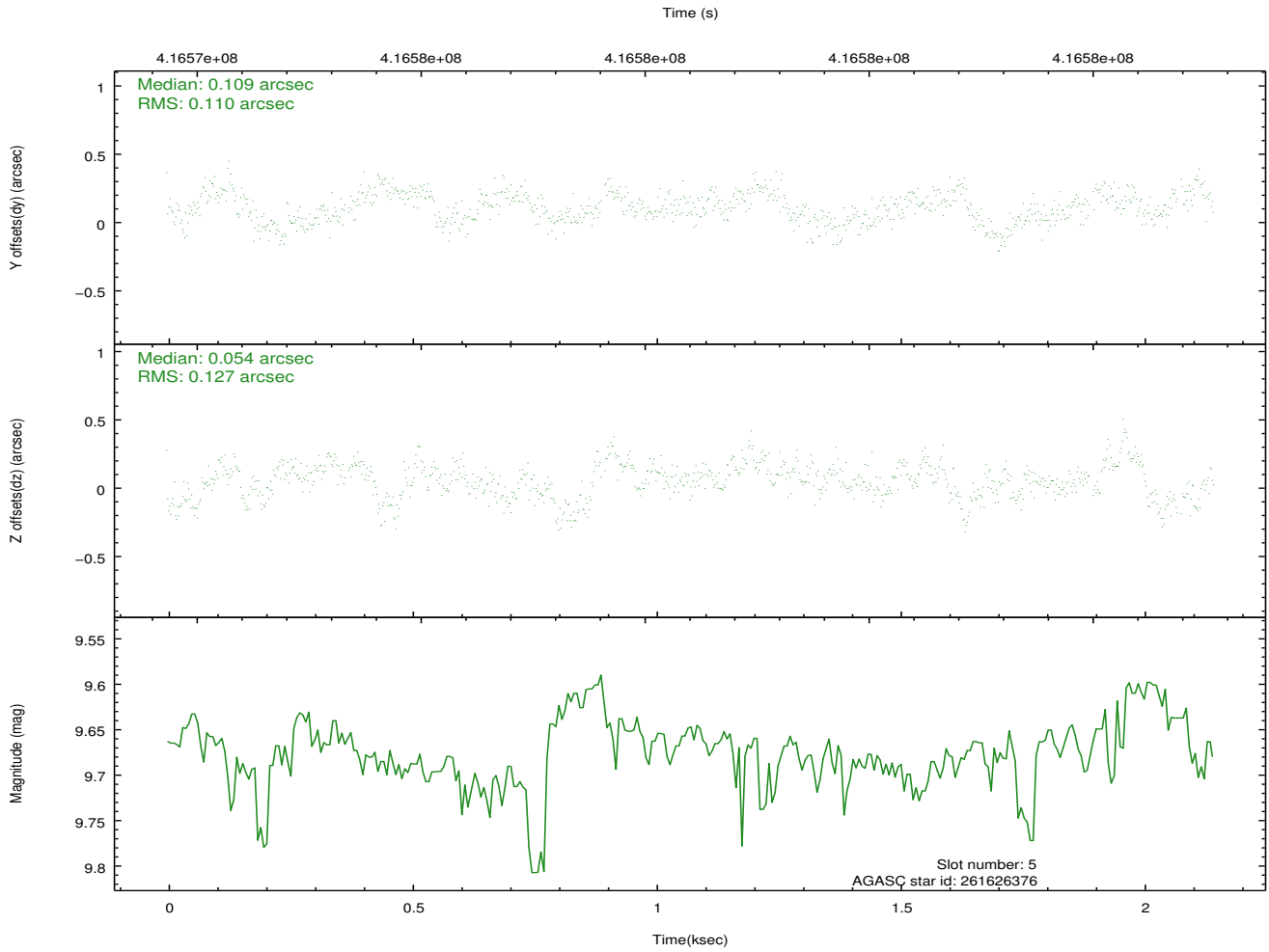
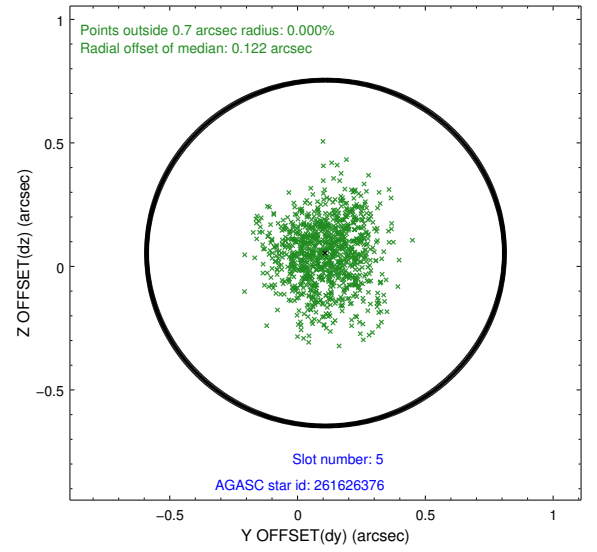
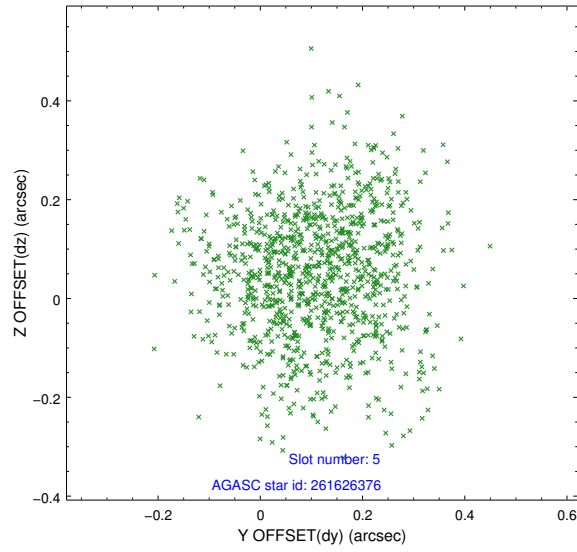
### 2.4.1 Slot 3



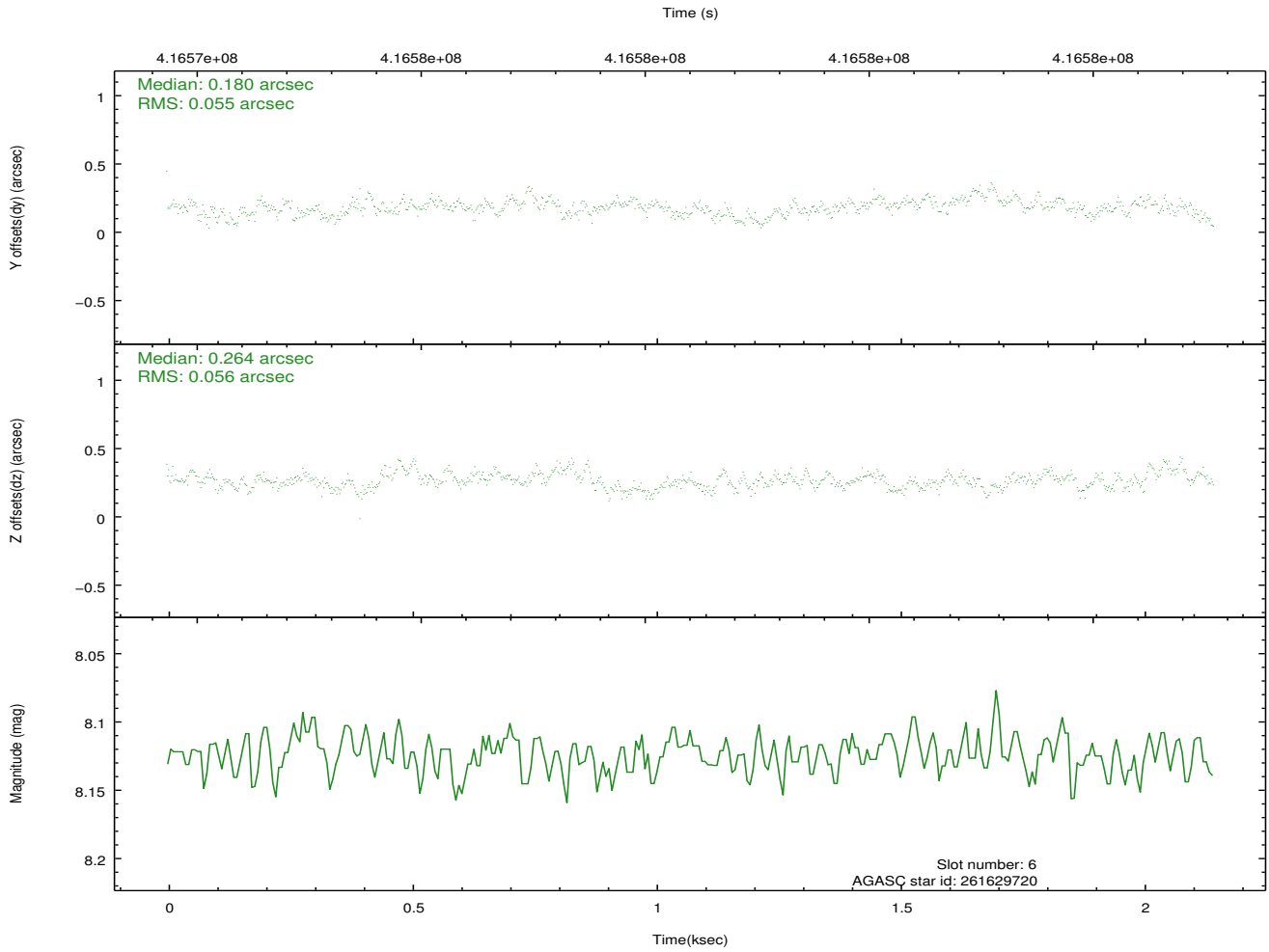
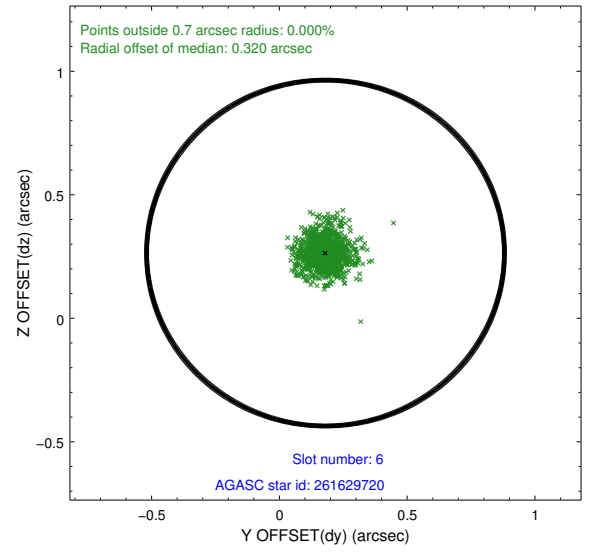
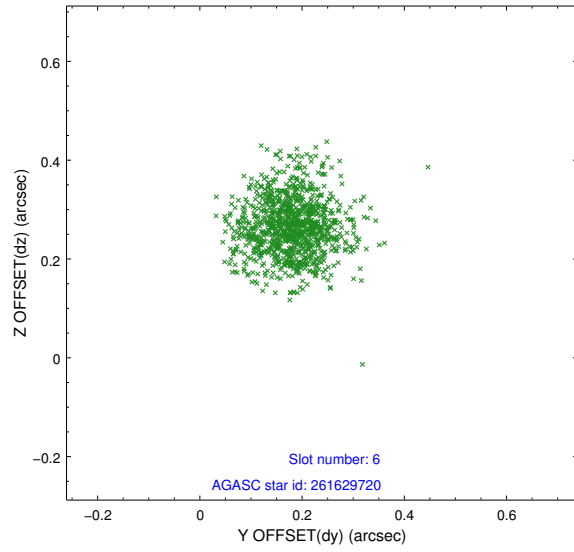
## 2.4.2 Slot 4



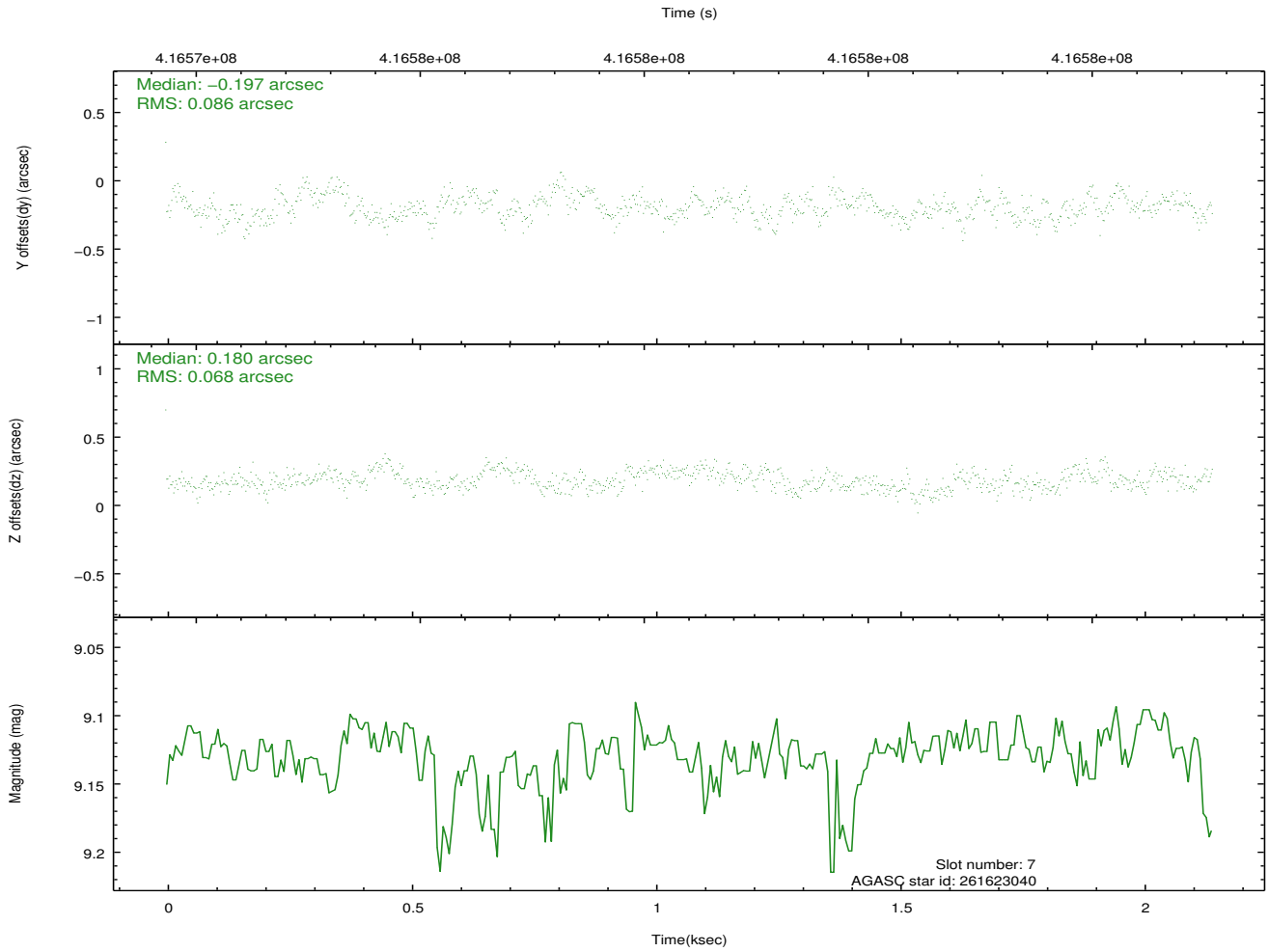
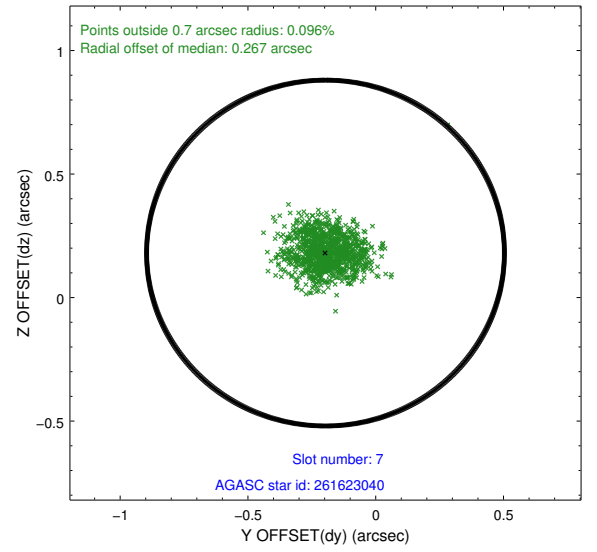
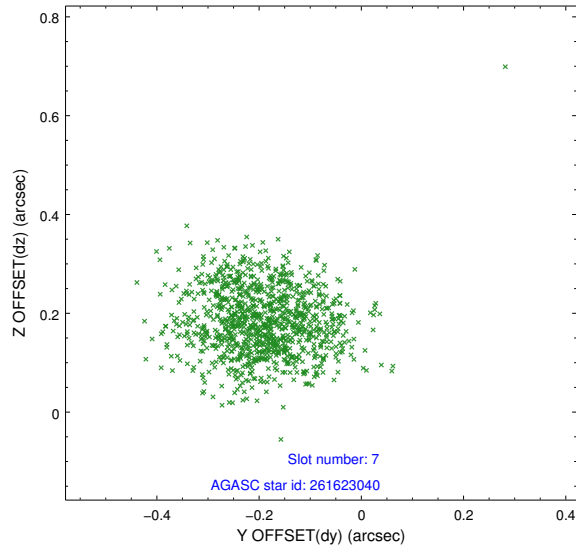
### 2.4.3 Slot 5



## 2.4.4 Slot 6

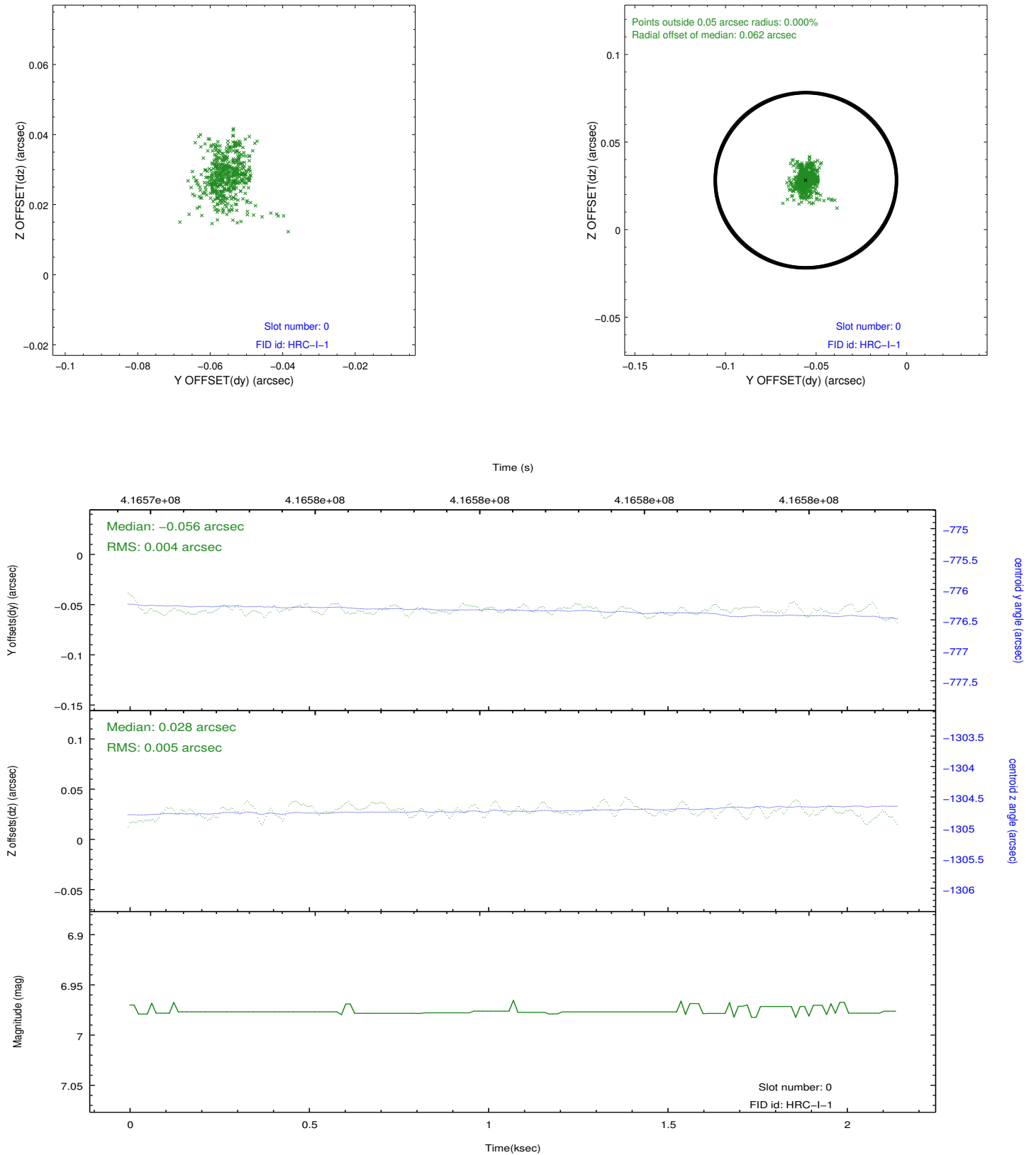


## 2.4.5 Slot 7

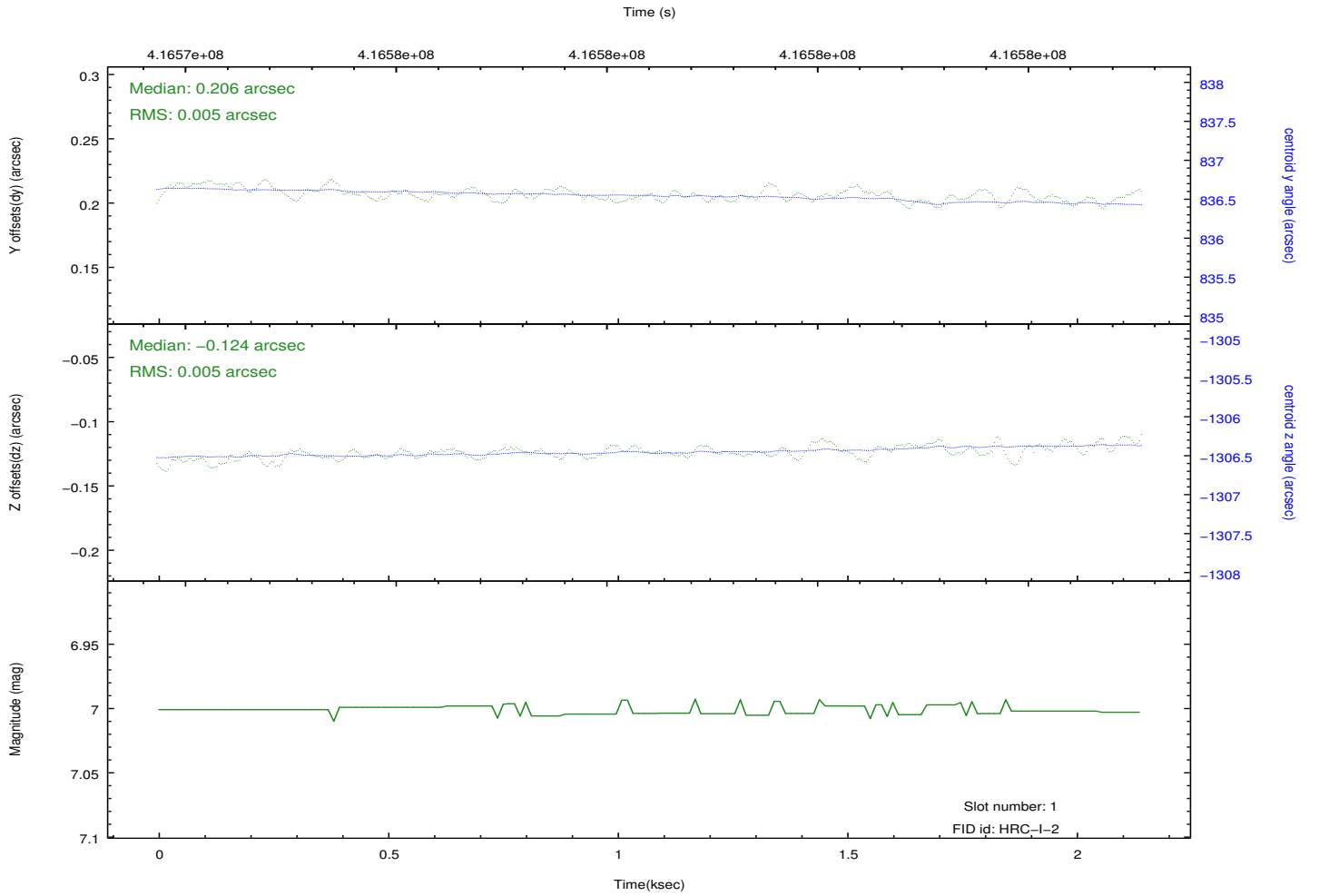
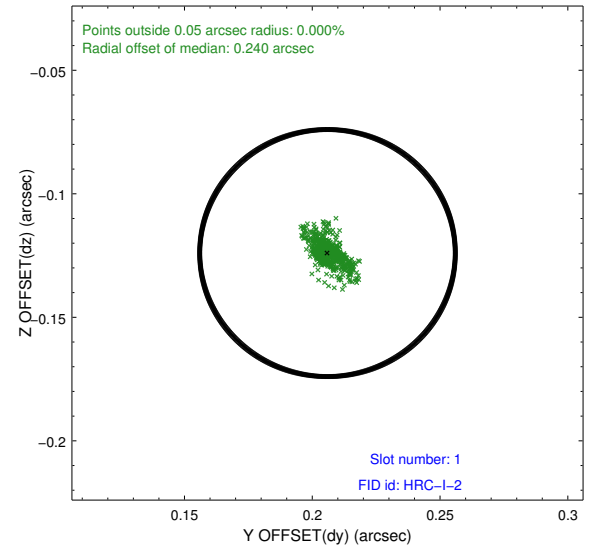
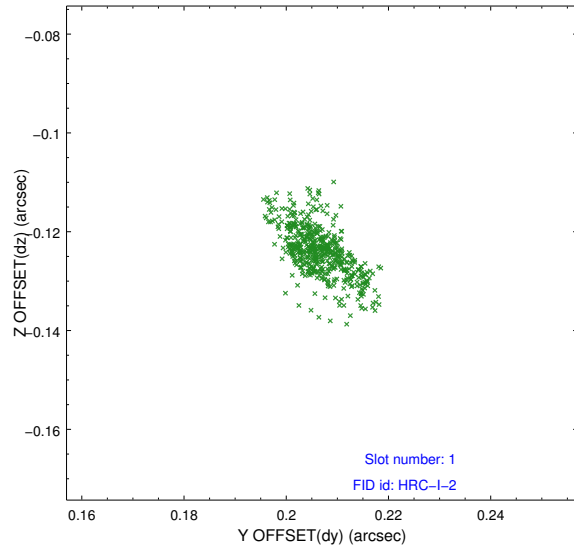


## 2.5 FID Slots

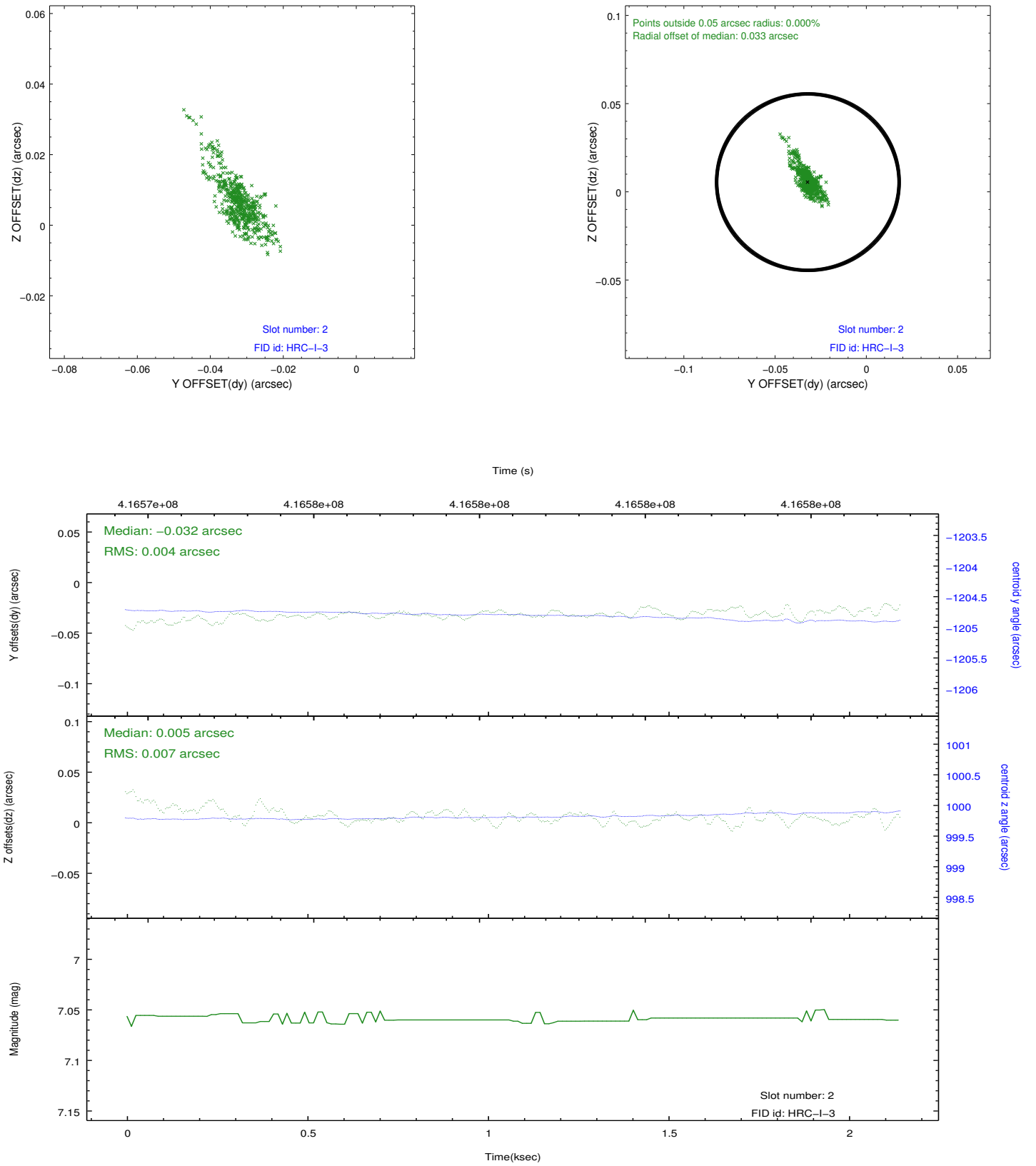
### 2.5.1 Slot 0



## 2.5.2 Slot 1



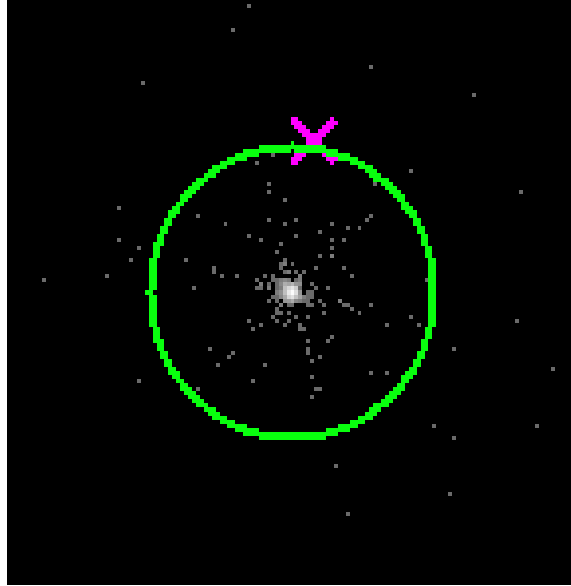
### 2.5.3 Slot 2



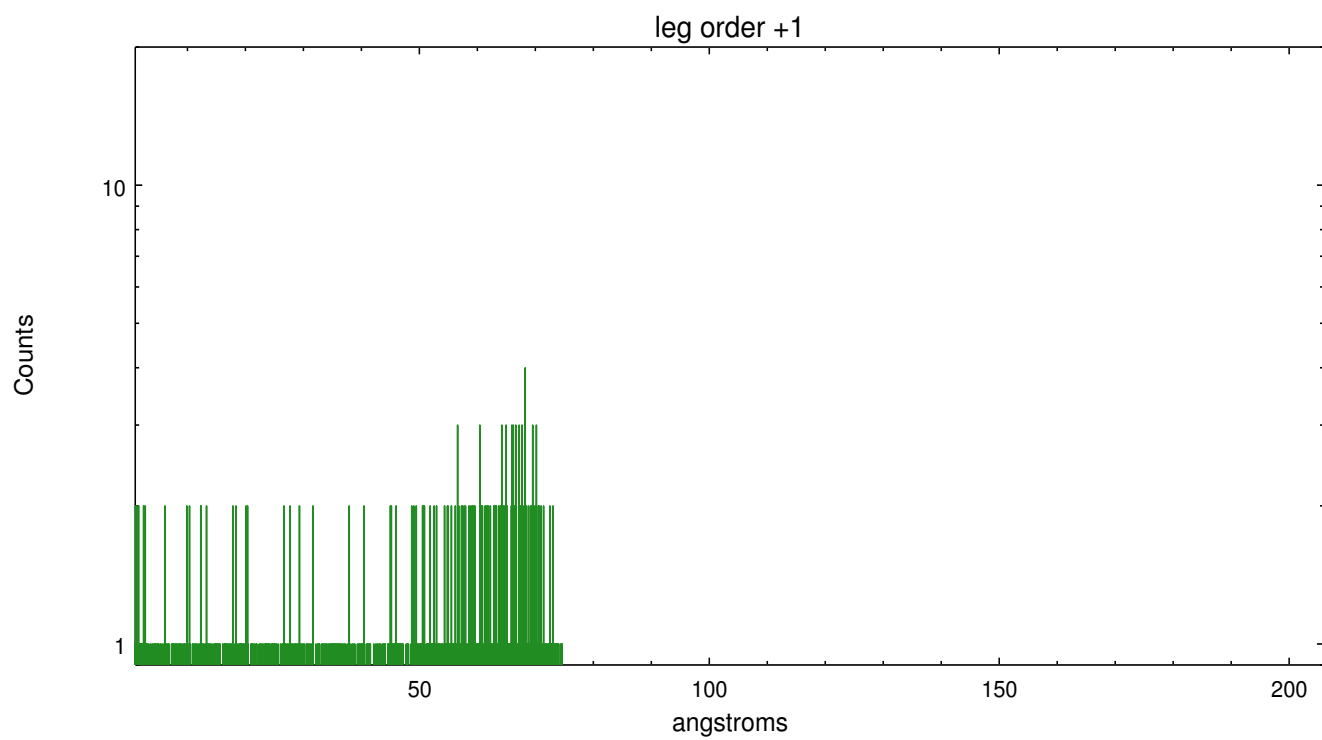
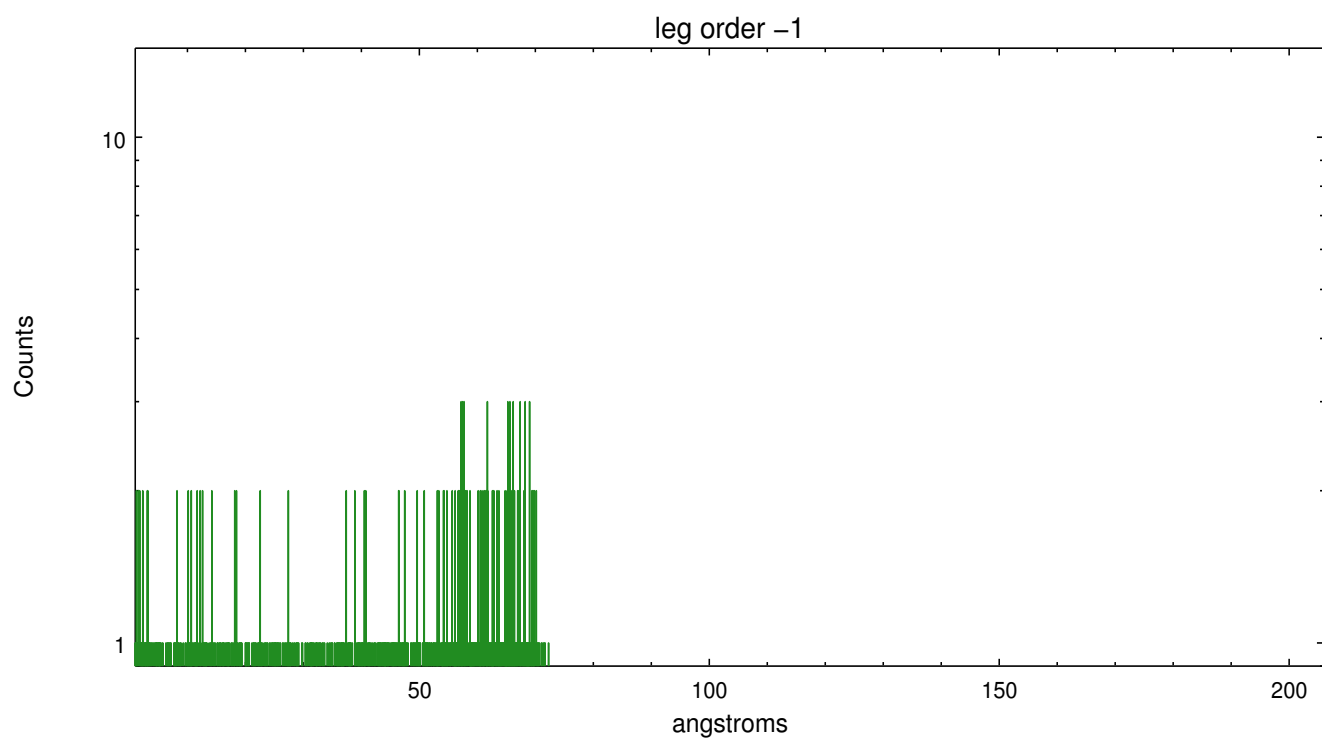


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1435313610435

### A.2 Comments

Warning: non-standard grating/detector combination. Standard processing programs may not work, calibrations may not exist.