

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5959 - L2 Version 002  
Chandra X-Ray Center

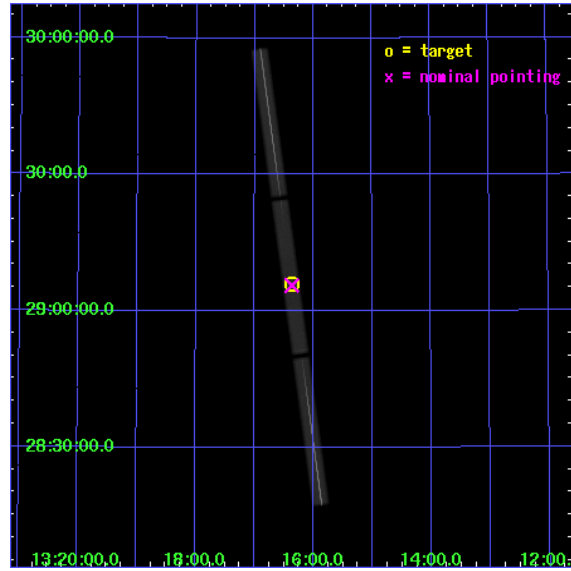
L2 Processing Date : Mar 15 2006

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# 1 Front

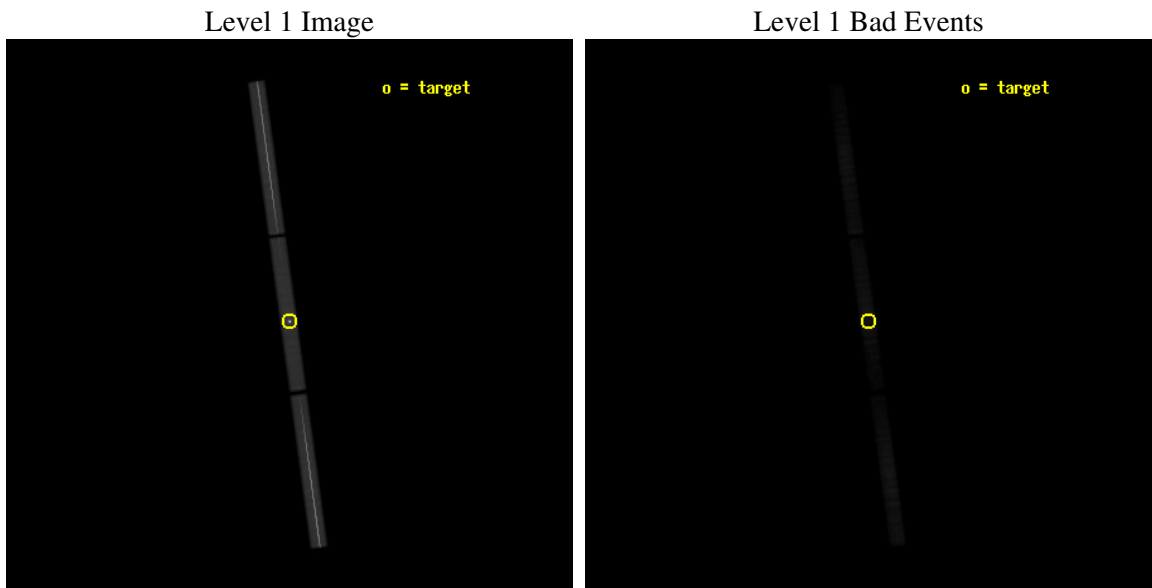
seq_num	290451
obs_id	5959
title	AO6 Calibration Observations of HZ43
observer	Dr. CXC Calibration
object	HZ43
ra_targ	199.092083
dec_targ	29.099
ra_nom	199.0912178105
dec_nom	29.094446554325
roll_nom	262.14359123673
revision	2
ontime	18182.732082427
livetime	17921.448231321
l2events	1987814



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-15T23:38:59
revision	2

sched_exp_time	18000.000000
ontime	18182.732082427
l1events	2617168

### 2.1.3 Events

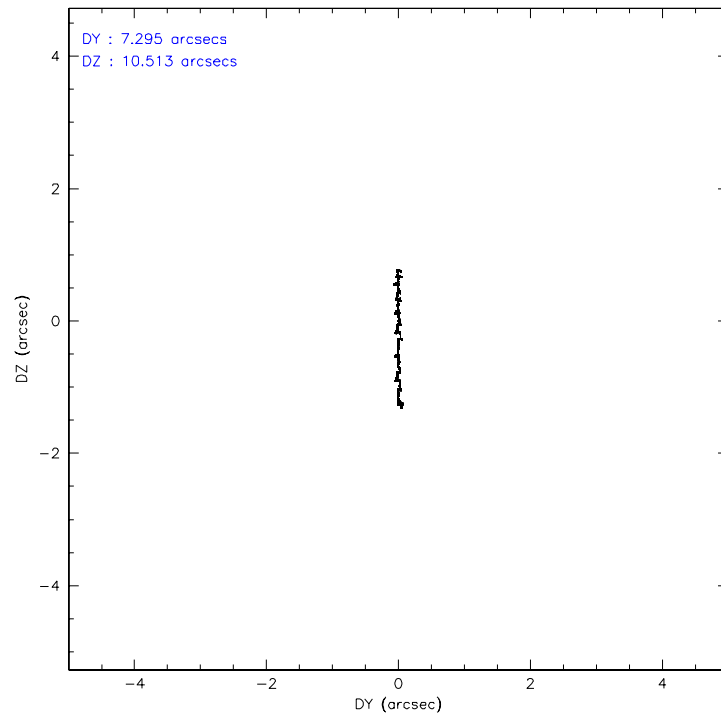
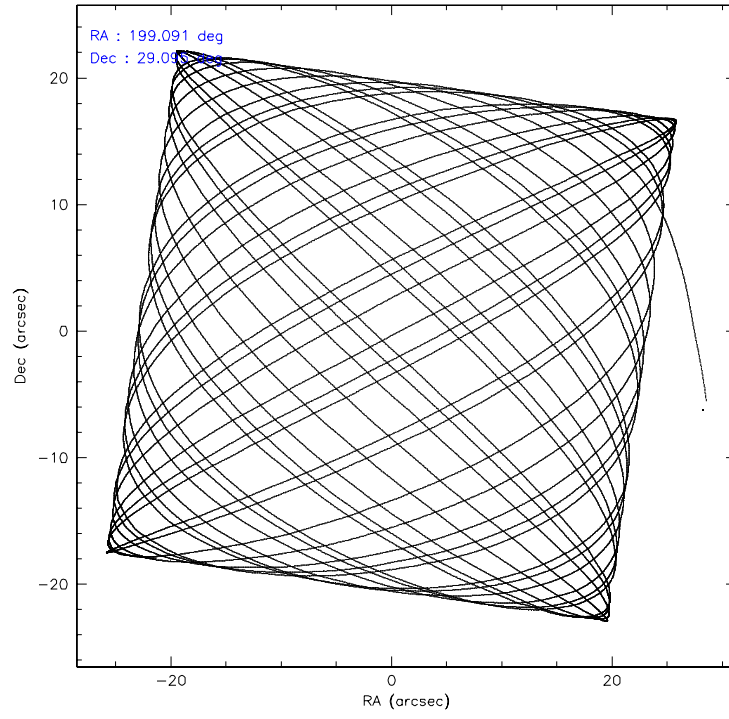
Level 1 Events

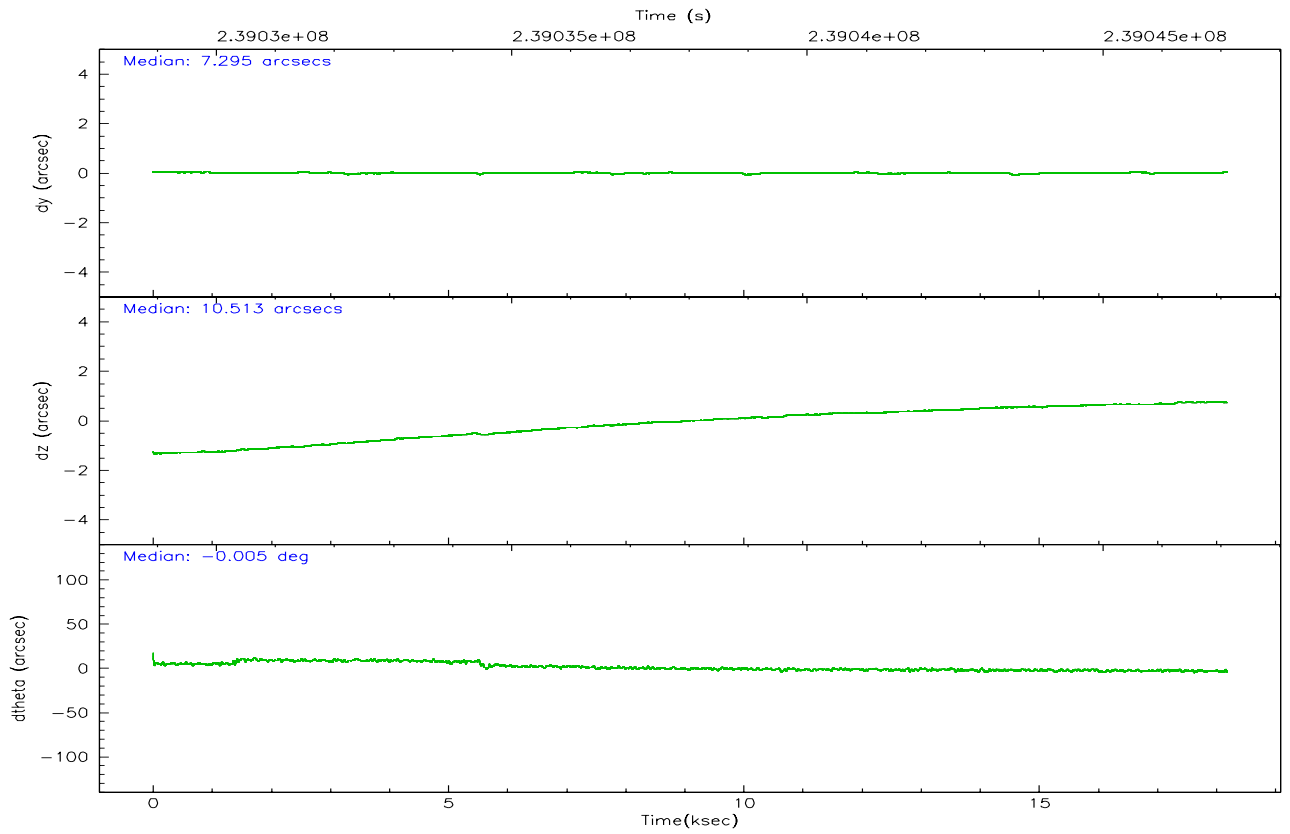
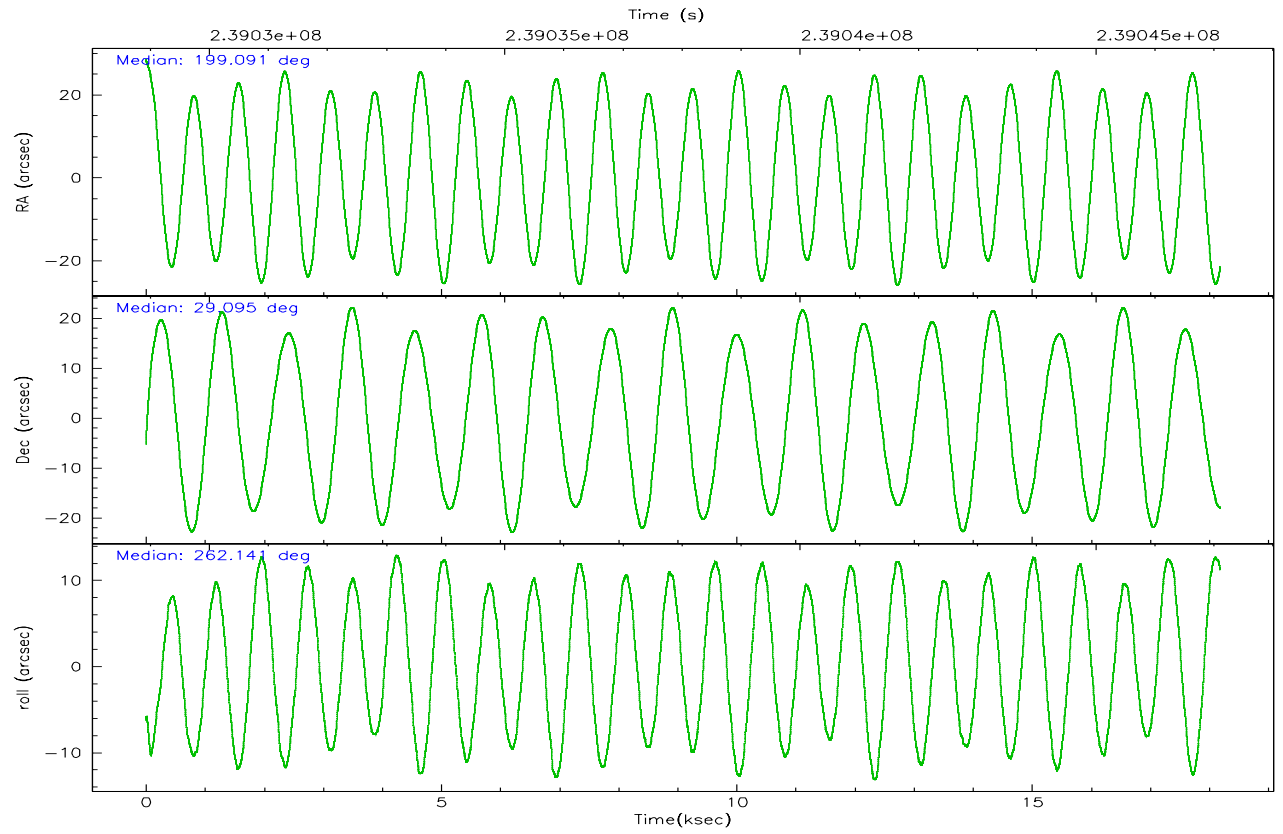
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	913185	795382	908601
rejected events	127884	136810	151423
rejected %	14%	17%	16%

## 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	199.077371	199.0912178105002			
Pointing Dec	29.120310	29.09444655432452			
Pointing Roll	262.082996	262.1435912367272			
Window start time	233971264.184000	233971264.184000			
Window stop time	241833664.184000	241833664.184000			
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	239029106.184000	239027947.07225			
Observation start date	2005-07-29T12:57:22	2005-07-29T12:39:07			
Observation end time	239047106.184000	239047415.41064			
Observation end date	2005-07-29T17:57:22	2005-07-29T18:03:35			

## 2.3 Aspect





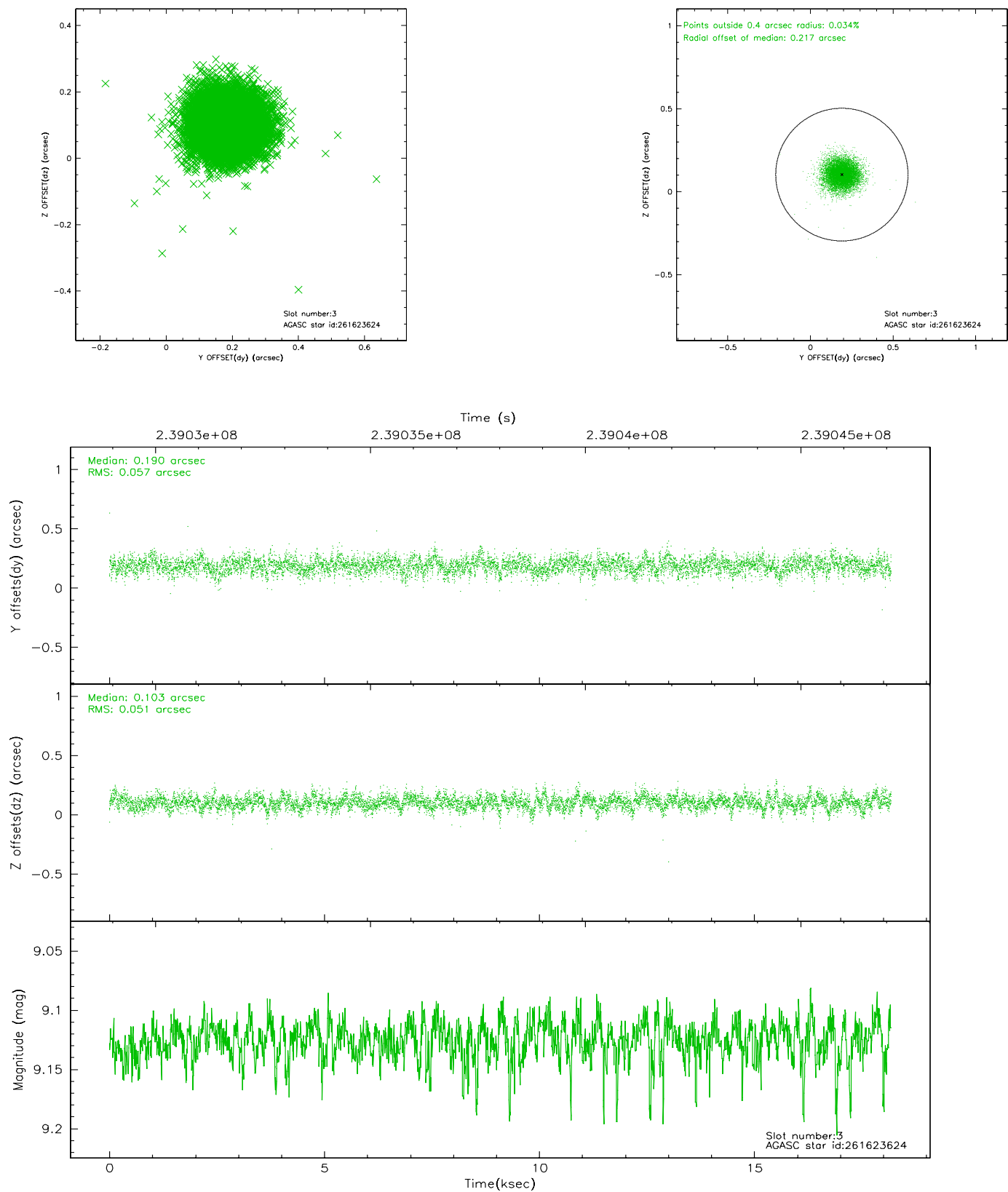
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	4435	0.085	-0.184	0.023	0.031	0.000000	0.000000	-1161.48	-459.09
1	FID	HRC-S-3	7.01	4435	0.089	-0.029	0.026	0.037	0.000000	0.000000	-1164.49	570.49
2	FID	HRC-S-4	6.96	4435	0.215	-0.081	0.009	0.014	0.000000	0.000000	1236.62	573.29
3	GUIDE	261623624	9.12	8865	0.190	0.103	0.080	0.132	199.611555	28.454113	2139.23	2004.81
4	GUIDE	261629720	8.10	8869	0.047	-0.042	0.063	0.097	199.236176	29.044452	201.85	532.85
5	GUIDE	261626352	8.60	8869	-0.075	-0.090	0.078	0.129	198.417097	29.781420	-2079.00	-2372.97
6	GUIDE	261624080	7.08	8871	-0.213	-0.198	0.057	0.092	198.424651	29.817768	-2211.80	-2366.60
7	GUIDE	261624456	7.31	8869	0.053	0.230	0.060	0.098	199.758056	28.567828	1666.90	2404.40

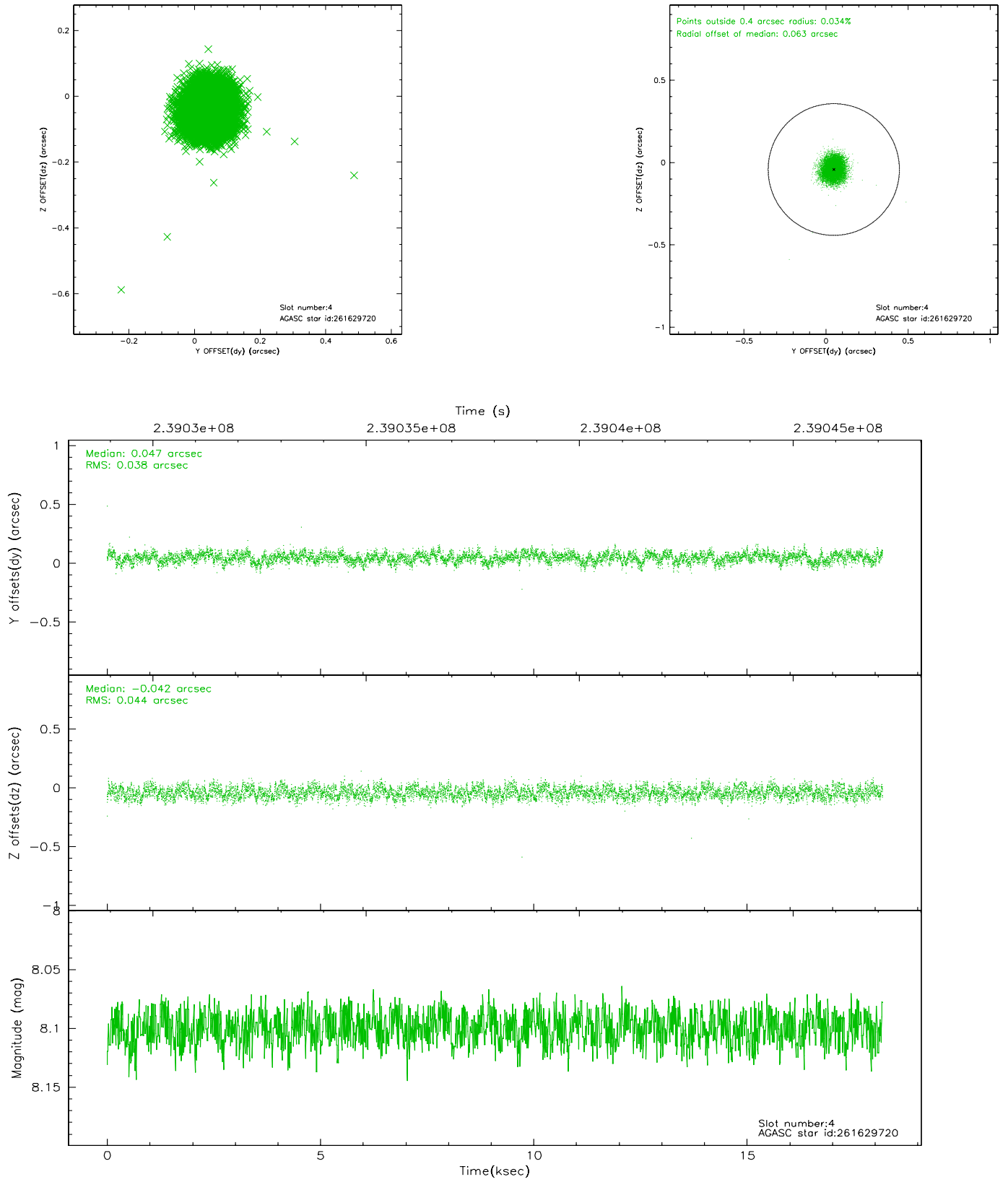


## 2.4 Star Slots

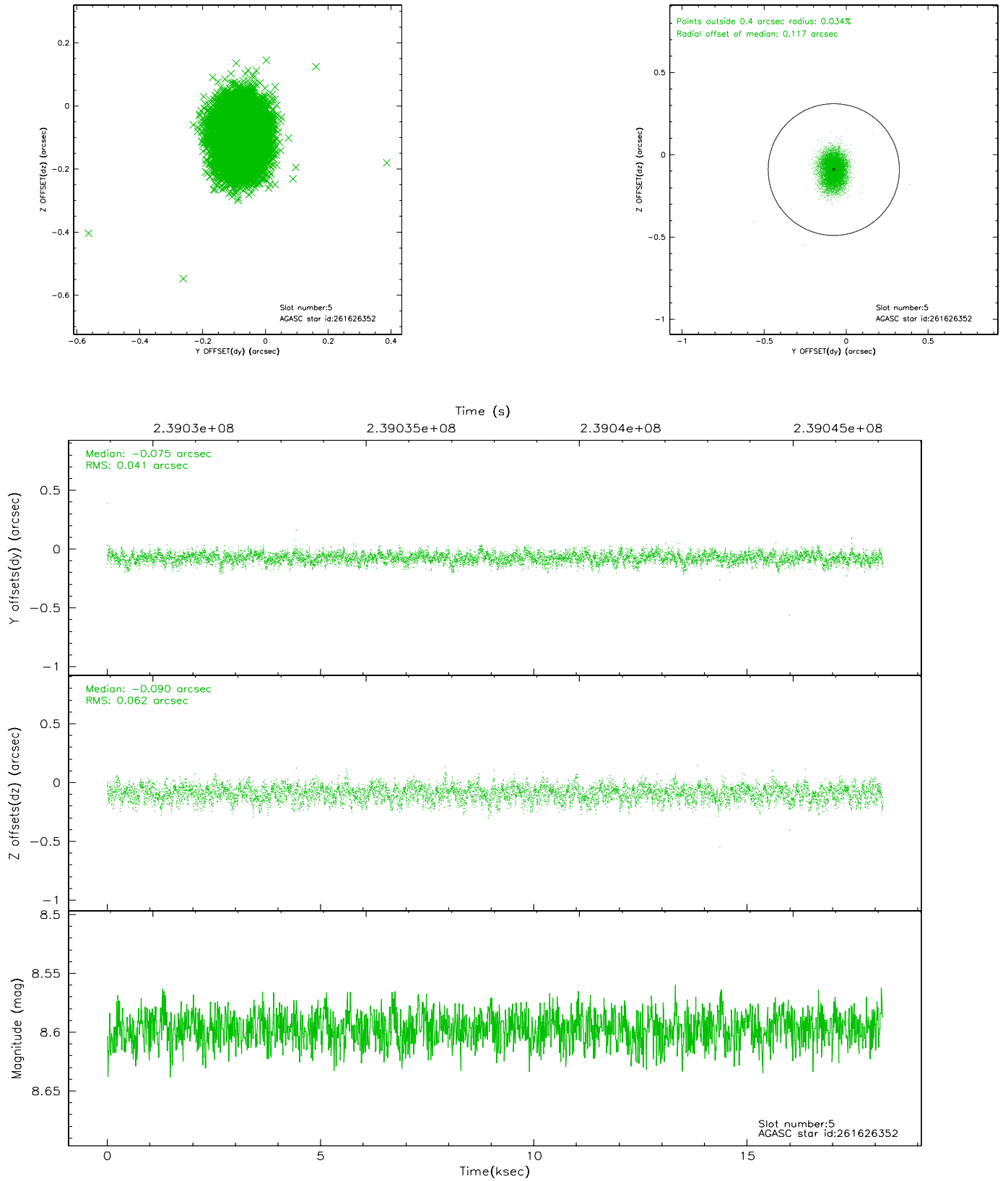
### 2.4.1 Slot 3



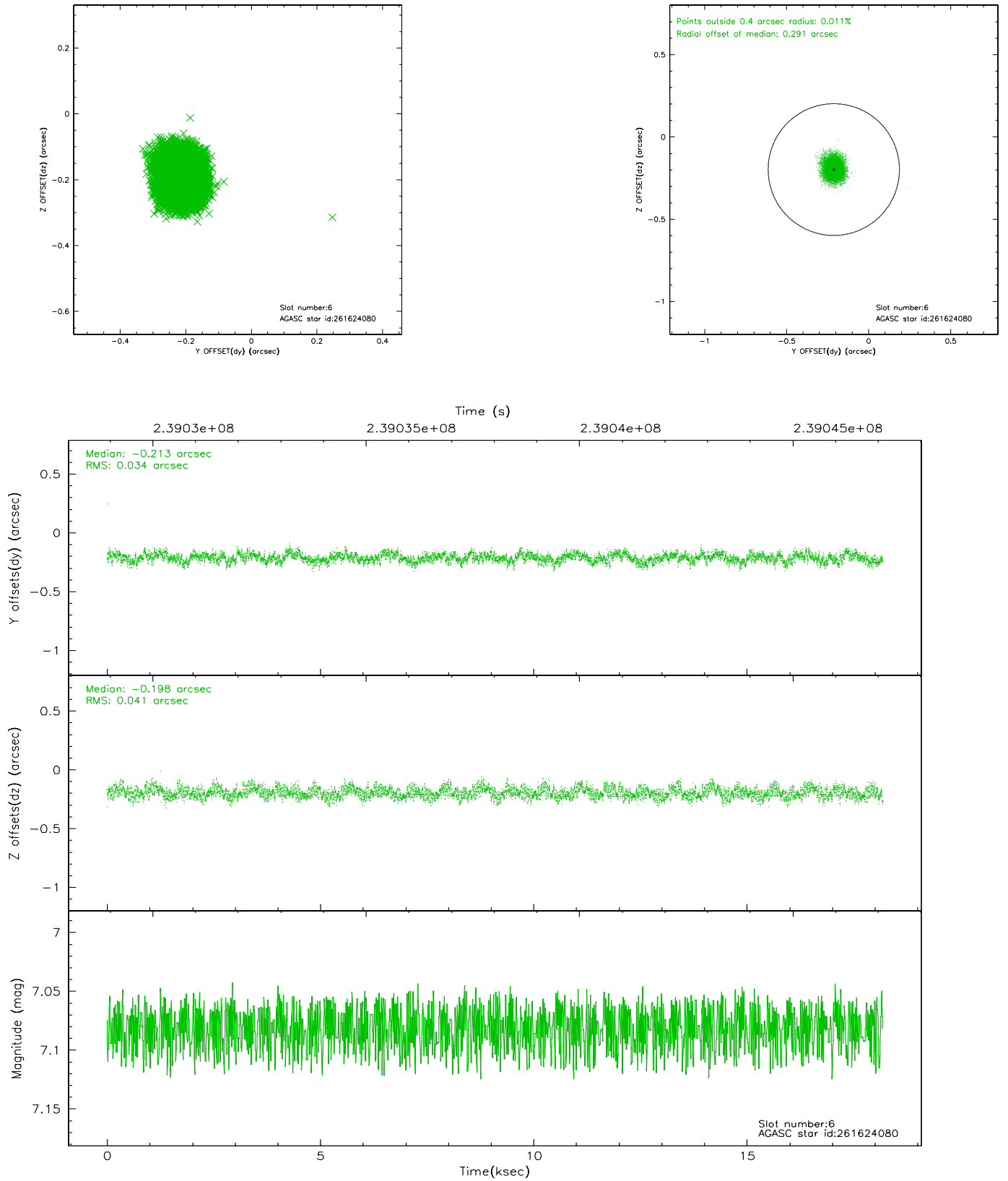
## 2.4.2 Slot 4



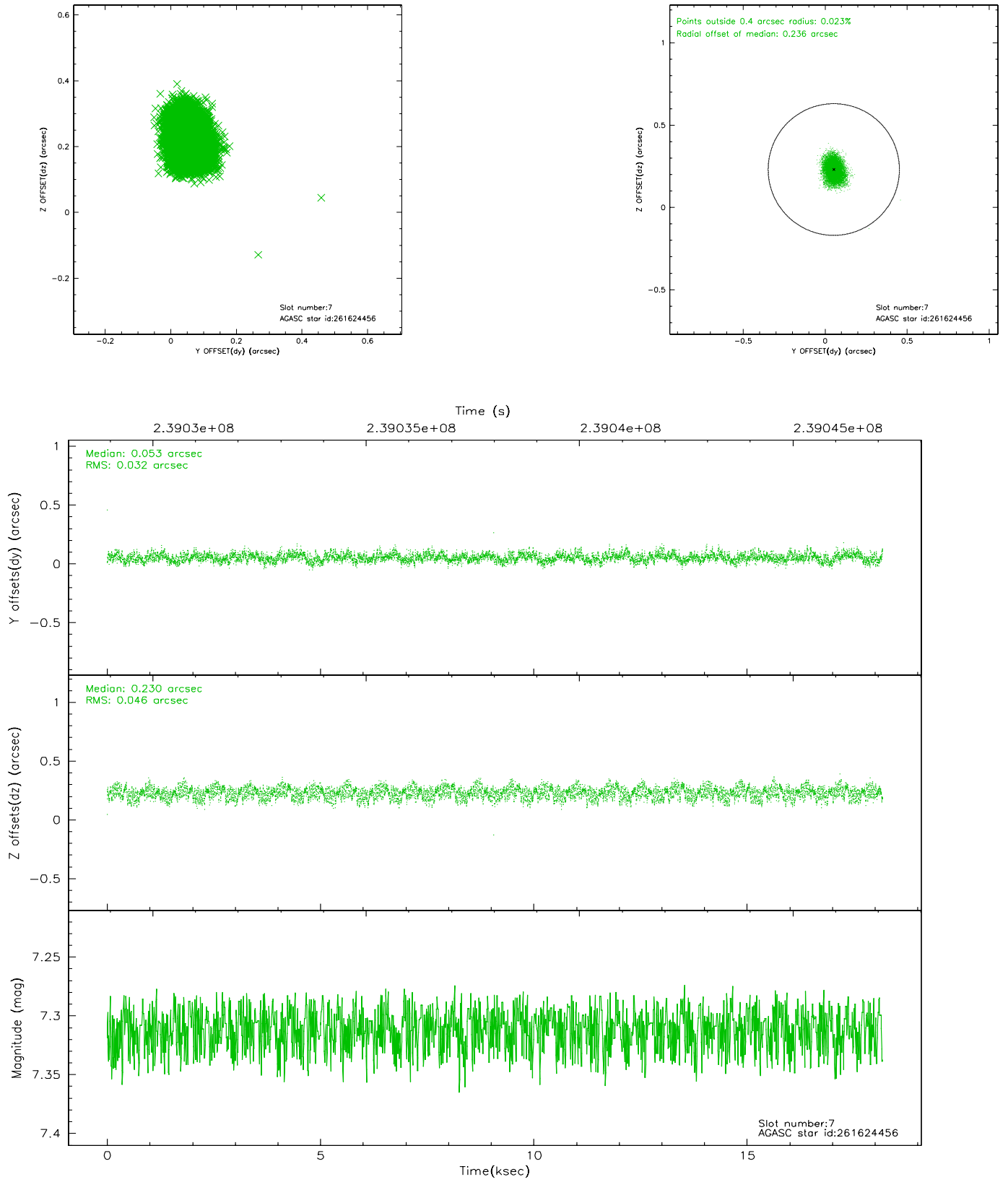
### 2.4.3 Slot 5



## 2.4.4 Slot 6

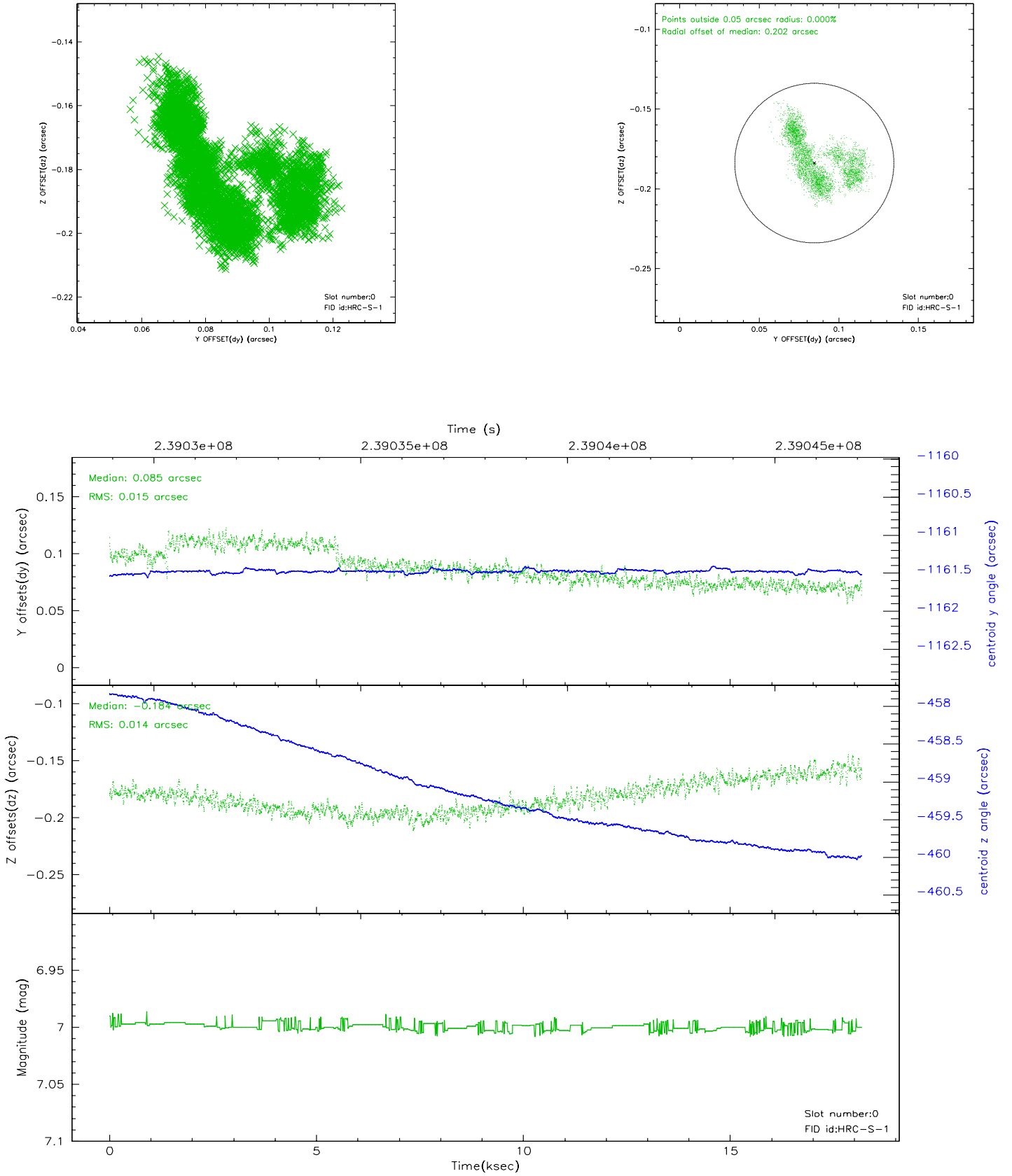


## 2.4.5 Slot 7

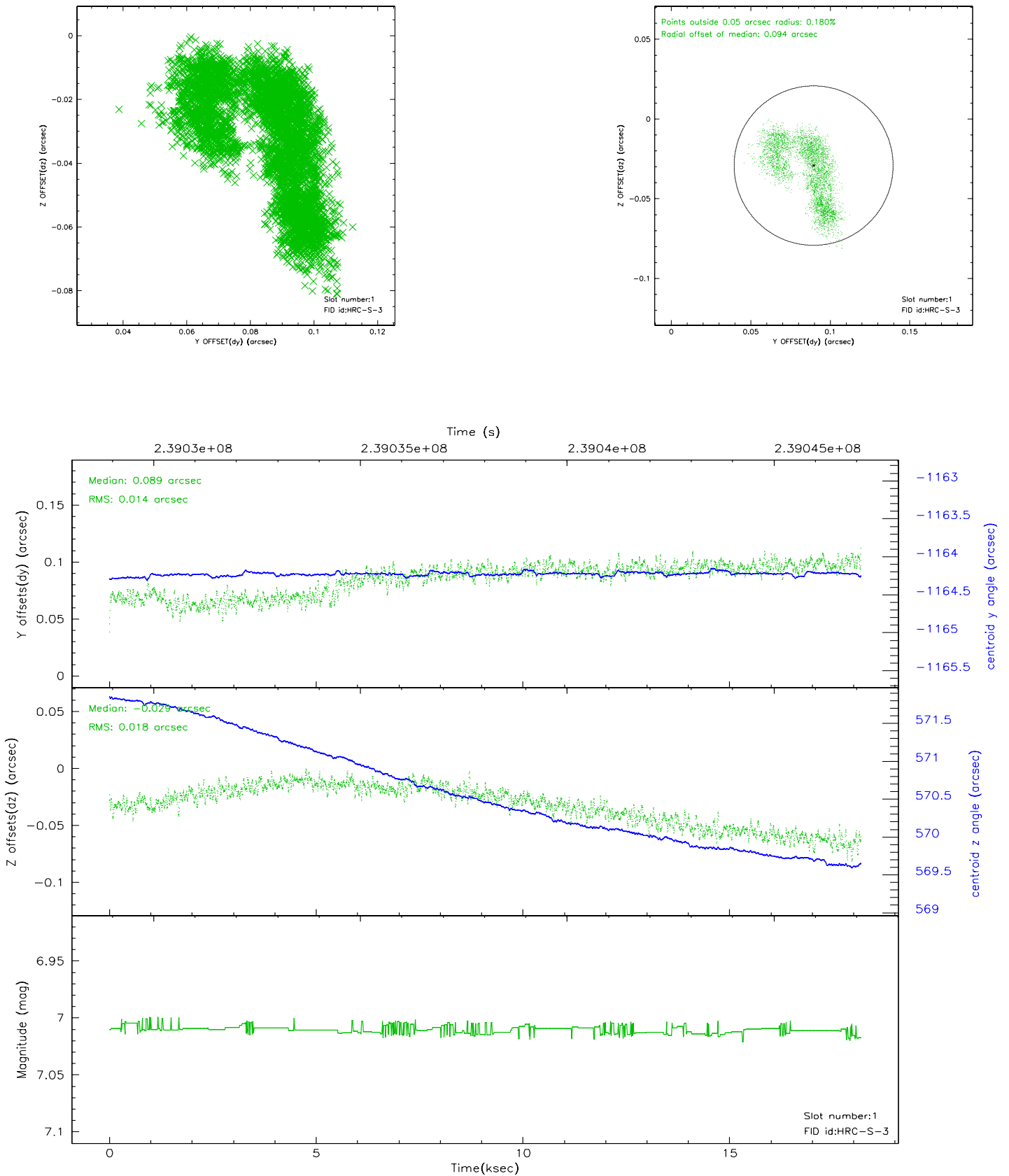


## 2.5 FID Slots

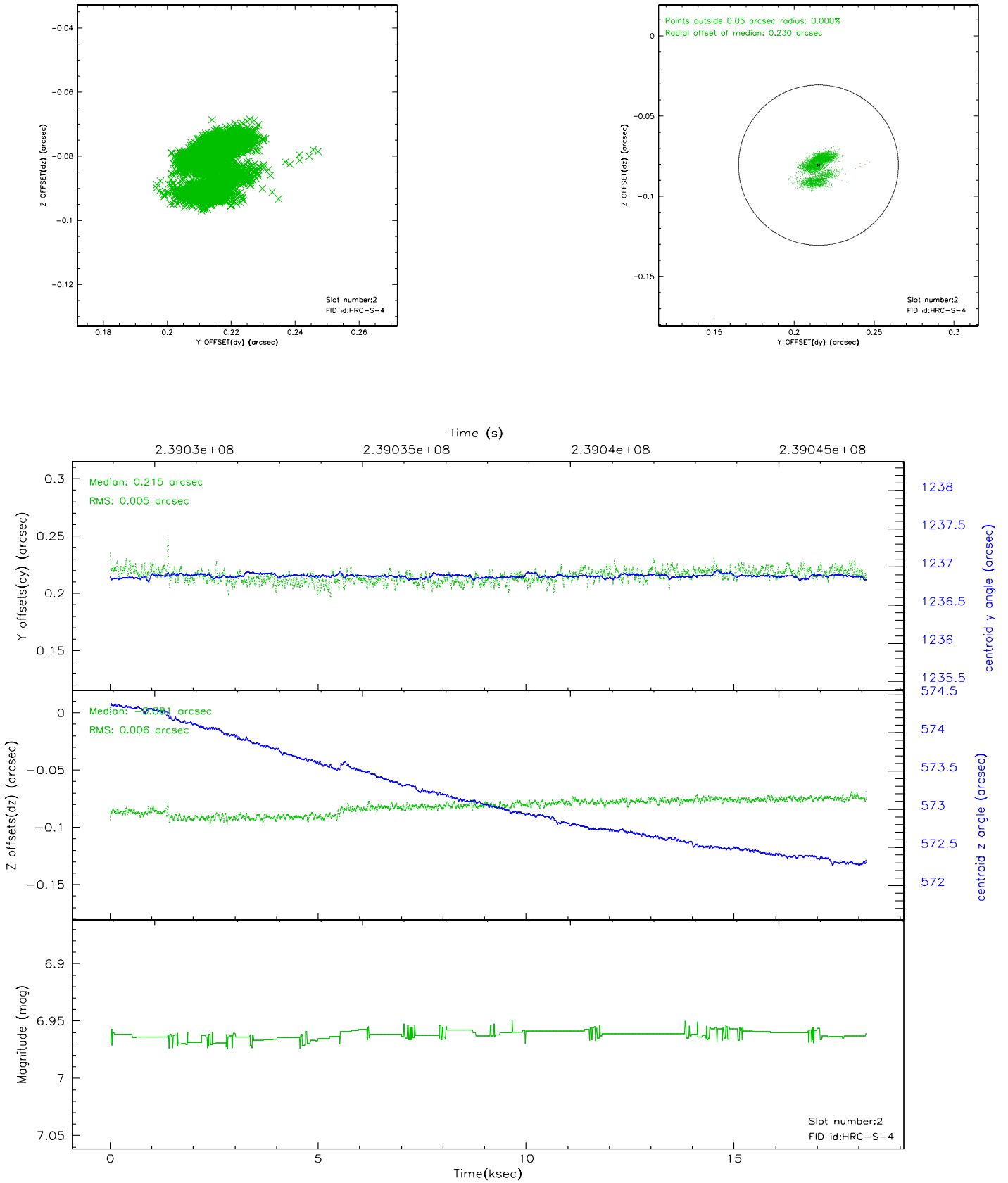
### 2.5.1 Slot 0



## 2.5.2 Slot 1



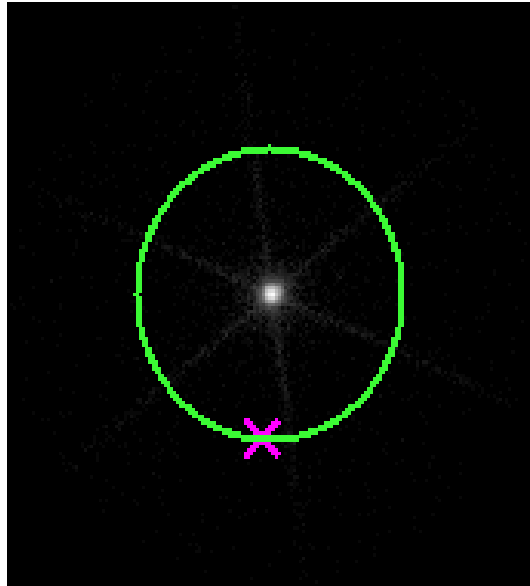
### 2.5.3 Slot 2





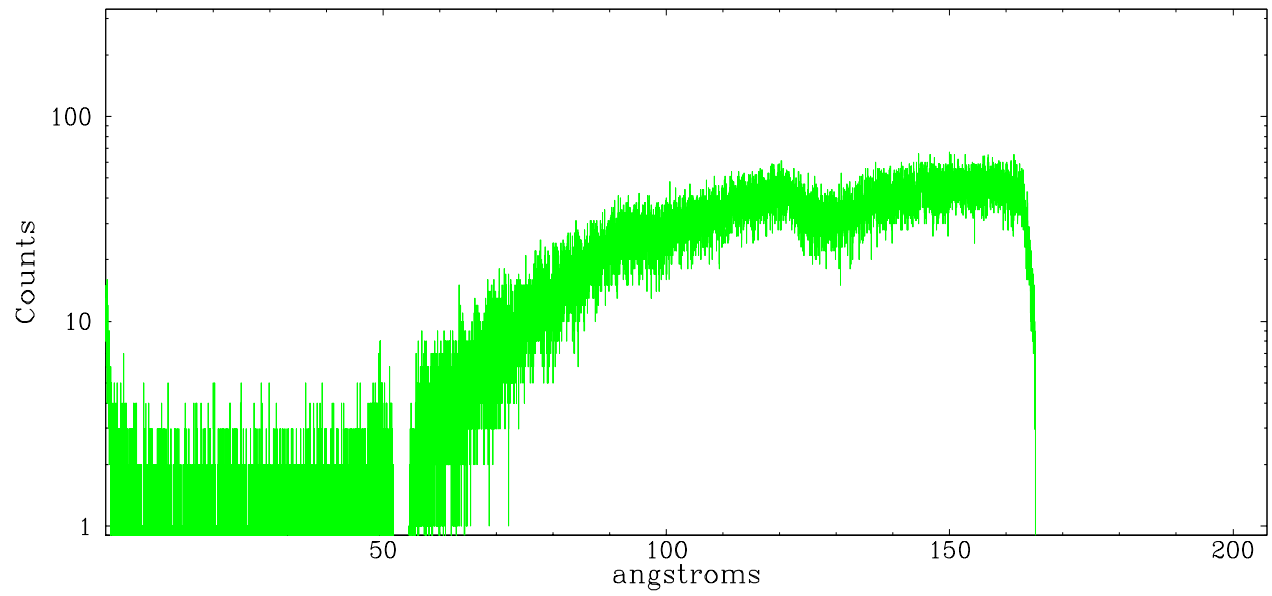
## 3 Gratings

### 3.1 LETG Arm

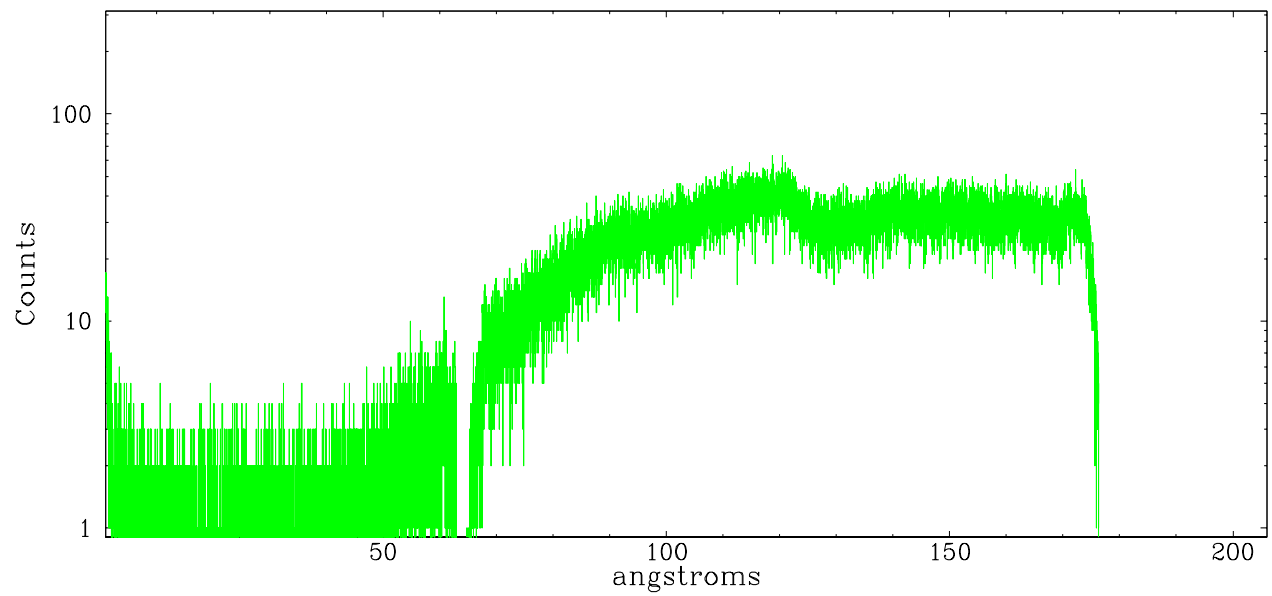


LETG Zero Order

leg order -1



leg order +1



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.03.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.18273

### A.2 Comments