

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 5934 - L2 Version 4  
Chandra X-Ray Center

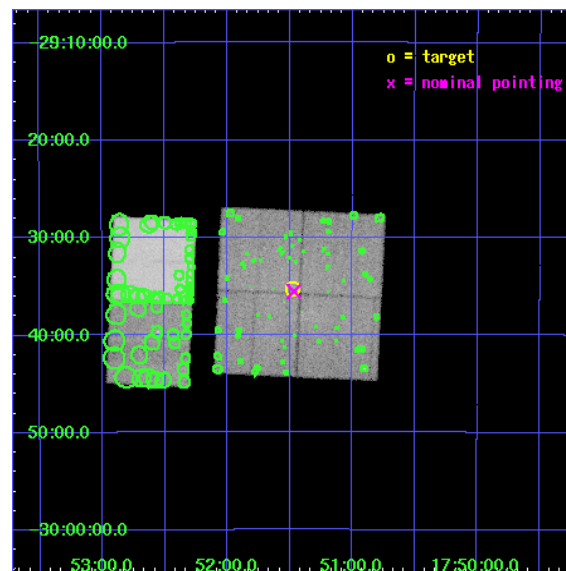
L2 Processing Date : Jan 14 2009

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# 1 Front

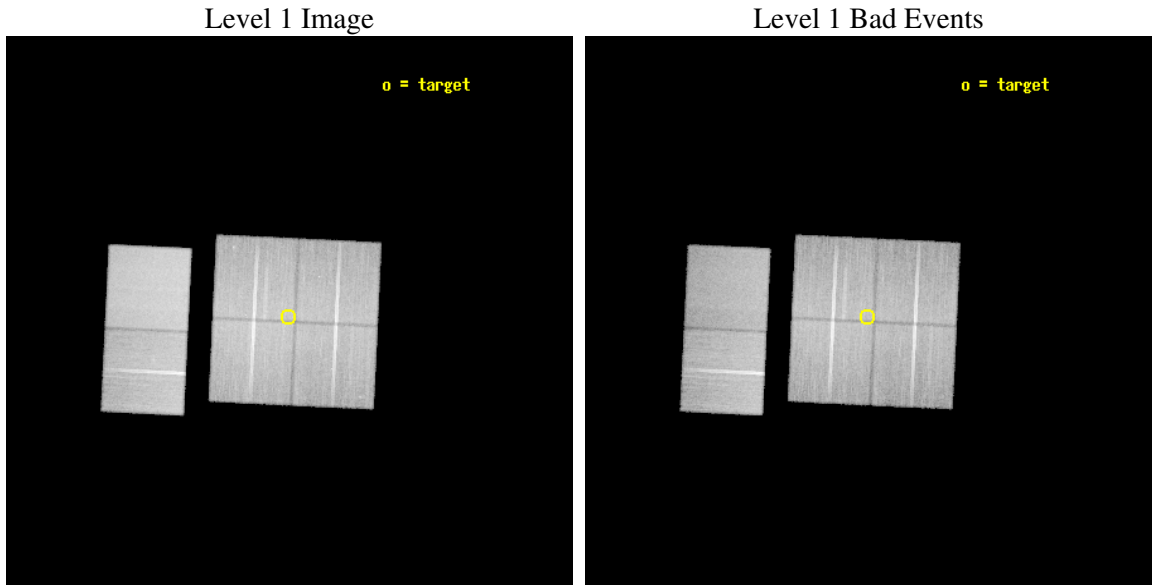
seq_num	600453
obs_id	5934
title	Galactic Bulge Chandra-HST Survey
observer	Prof. Jonathan Grindlay
object	Limiting Window
dtcycle	0
cycle	P
ra_targ	267.86875
dec_targ	-29.588
ra_nom	267.86691942491
dec_nom	-29.592332783384
roll_nom	272.7474160136
revision	4
ontime	41055.999847054
livetime	40536.124056036
ontime0	41055.999847054
ontime1	41055.999847054
ontime2	41052.758946419
ontime3	41055.999847054
ontime6	41052.758866757
ontime7	41055.999847054
l2events	480463



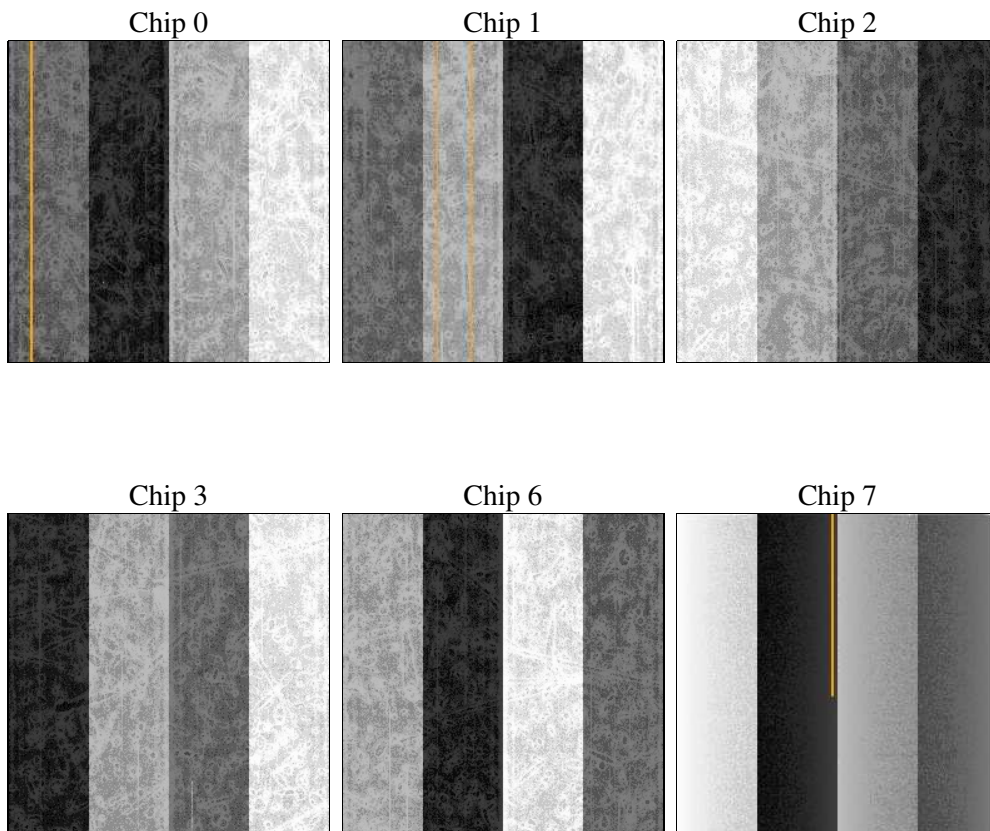
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldsver	3.5.1
date	2009-01-14T09:11:47
revision	4

sched_exp_time	56000.000000
ontime	41055.999847054
ontime0	41055.999847054
ontime1	41055.999847054
ontime2	41052.758946419
ontime3	41055.999847054
ontime6	41052.758866757
ontime7	41055.999847054
l1events	2212580

### 2.1.4 Events

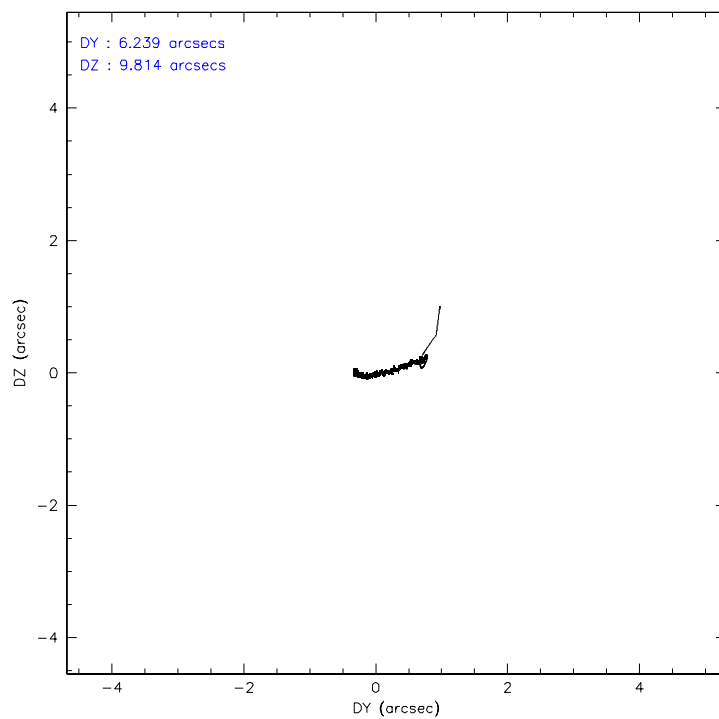
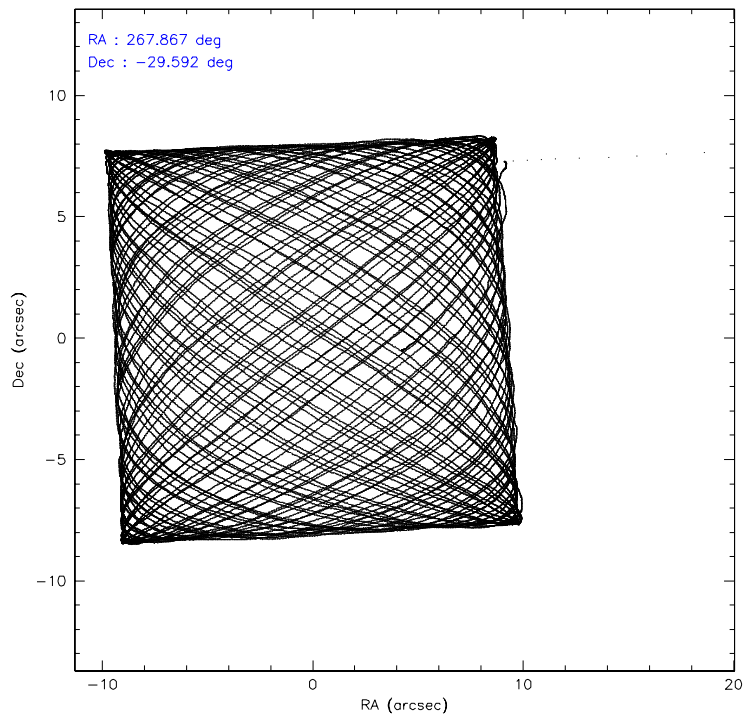
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	326170	332142	364849	354930	373892	460597
rejected events	261307	268346	298431	292655	312852	254544
rejected %	80%	80%	81%	82%	83%	55%

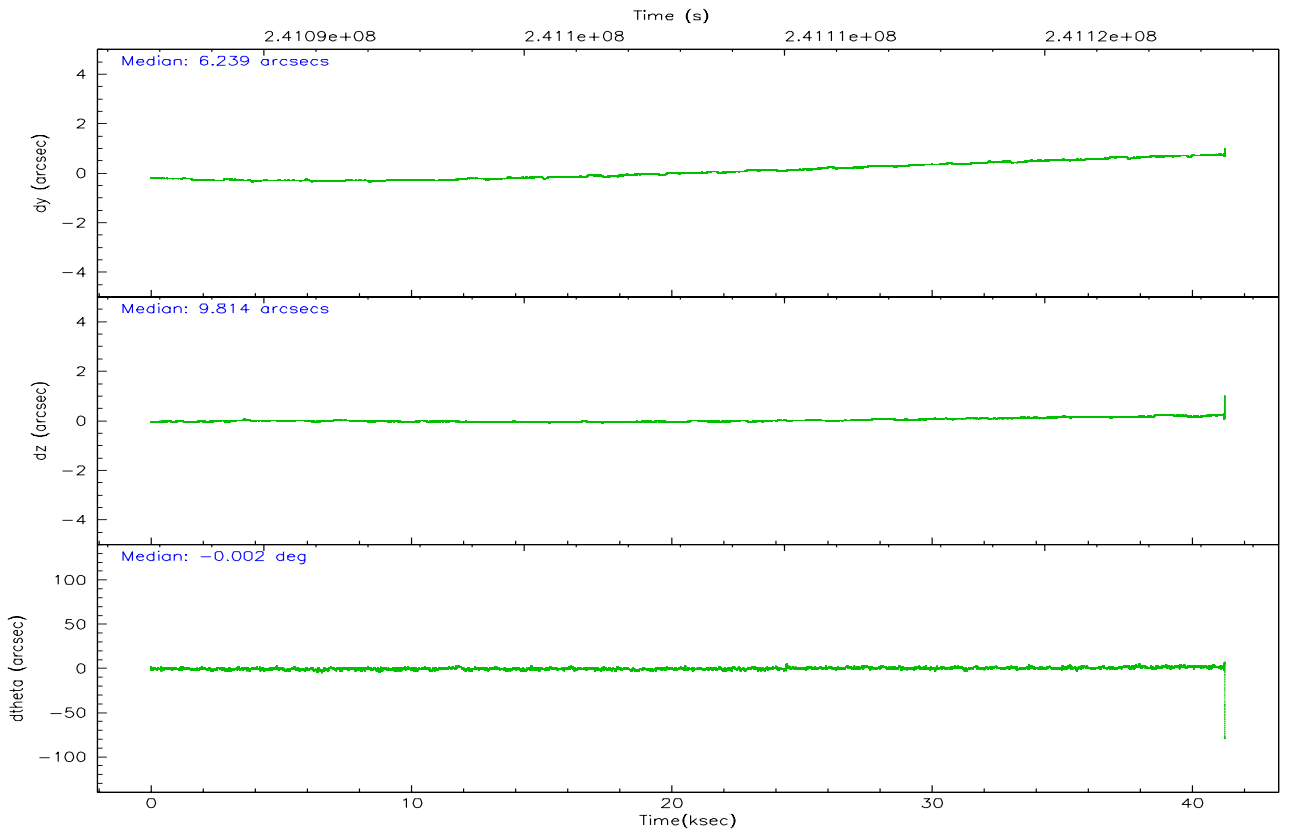
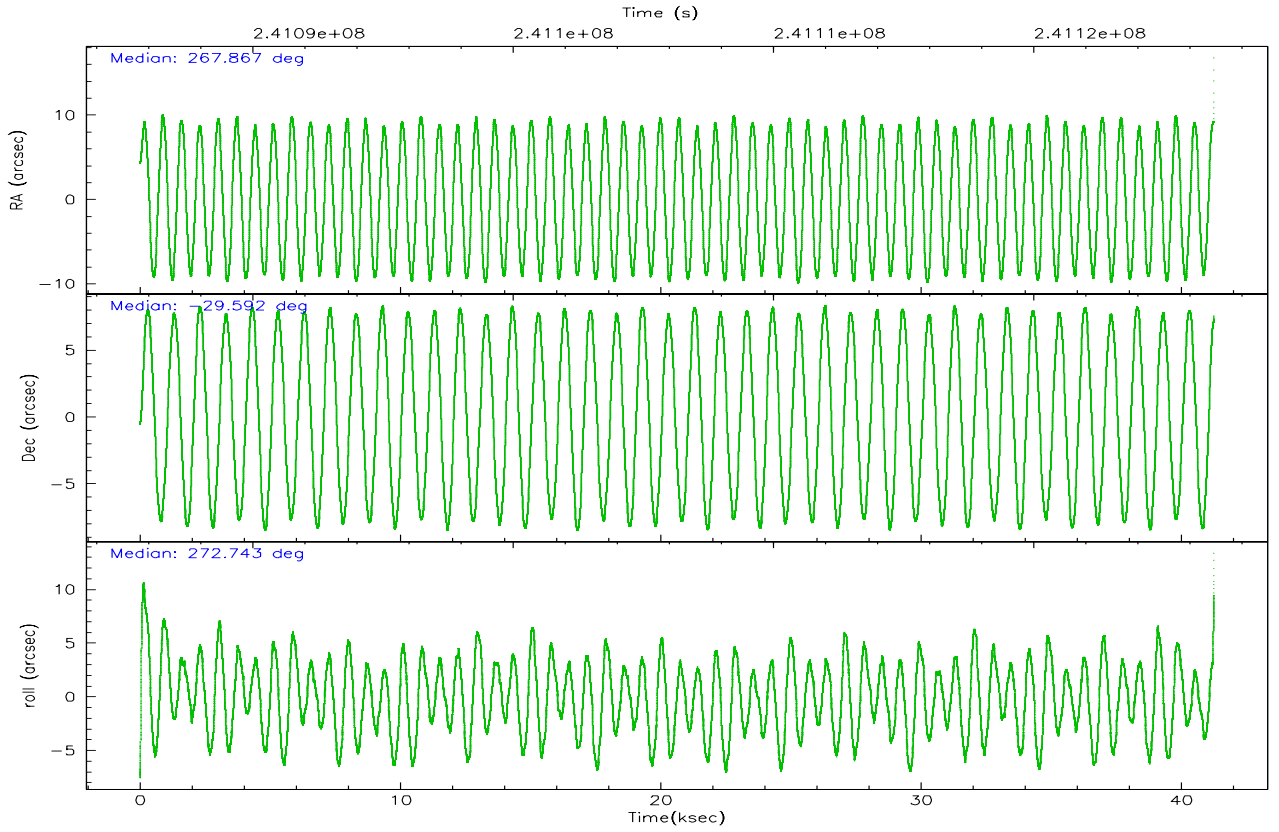
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	34389	30923	36983	33441	29967	22207
	10%	9%	10%	9%	8%	4%
grade 1 events	275	204	288	281	260	466
	0%	0%	0%	0%	0%	0%
grade 2 events	12506	13114	11971	10937	12509	42634
	3%	3%	3%	3%	3%	9%
grade 3 events	4550	4538	4335	4388	4226	18510
	1%	1%	1%	1%	1%	4%
grade 4 events	4290	4548	4752	4266	4203	18630
	1%	1%	1%	1%	1%	4%
grade 5 events	12291	13483	12020	14082	14932	41434
	3%	4%	3%	3%	3%	8%
grade 6 events	9180	10734	8429	9293	10204	104240
	2%	3%	2%	2%	2%	22%
grade 7 events	248689	254598	286071	278242	297591	212476
	76%	76%	78%	78%	79%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	267.849772	267.8669194249106	Subarray requested	NONE	NONE
Pointing Dec	-29.569375	-29.59233278338385	Alternating exposures requested	N	N
Pointing Roll	272.530261	272.7474160136031	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	241085856.184000	241085049.90405			
Observation start date	2005-08-22T08:16:32	2005-08-22T08:04:09			
Observation end time	241141856.184000	241126957.03097			
Observation end date	2005-08-22T23:49:52	2005-08-22T19:42:37			
Read mode	TIMED	TIMED			

## 2.3 Aspect



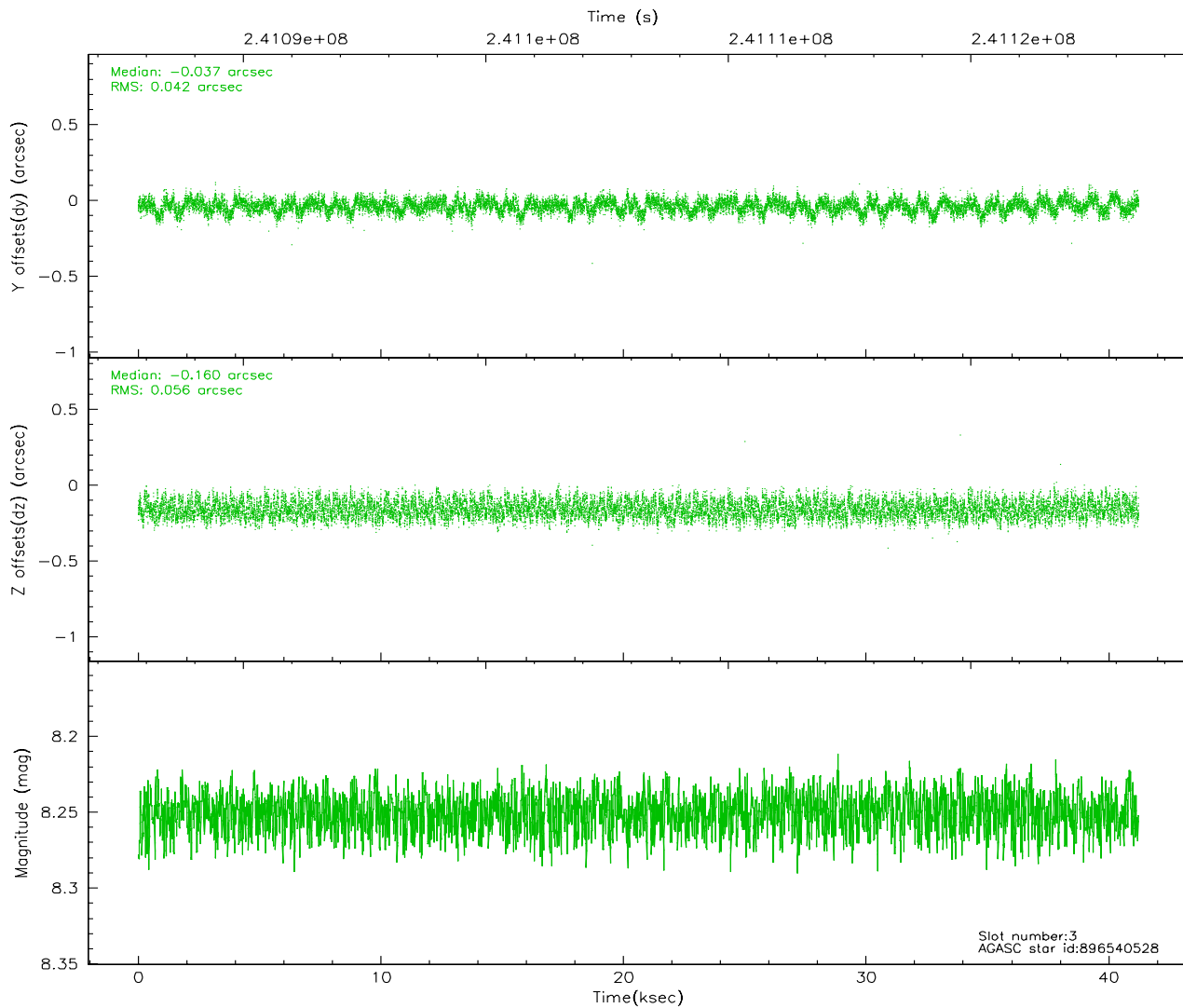
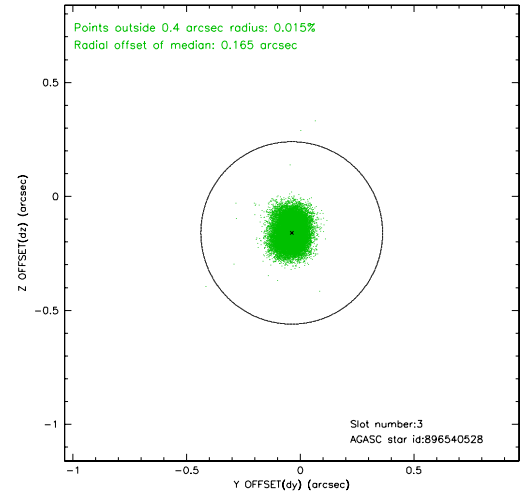
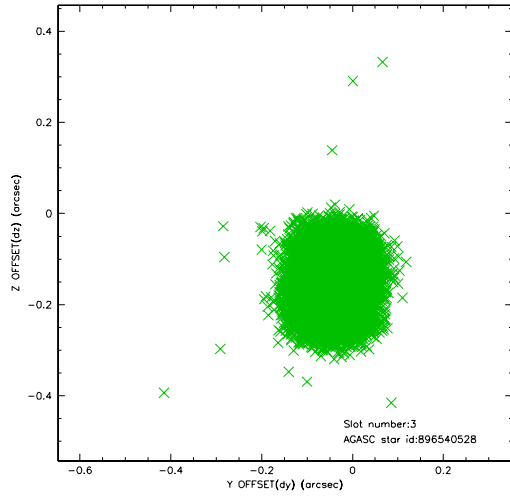


### Slot Statistics

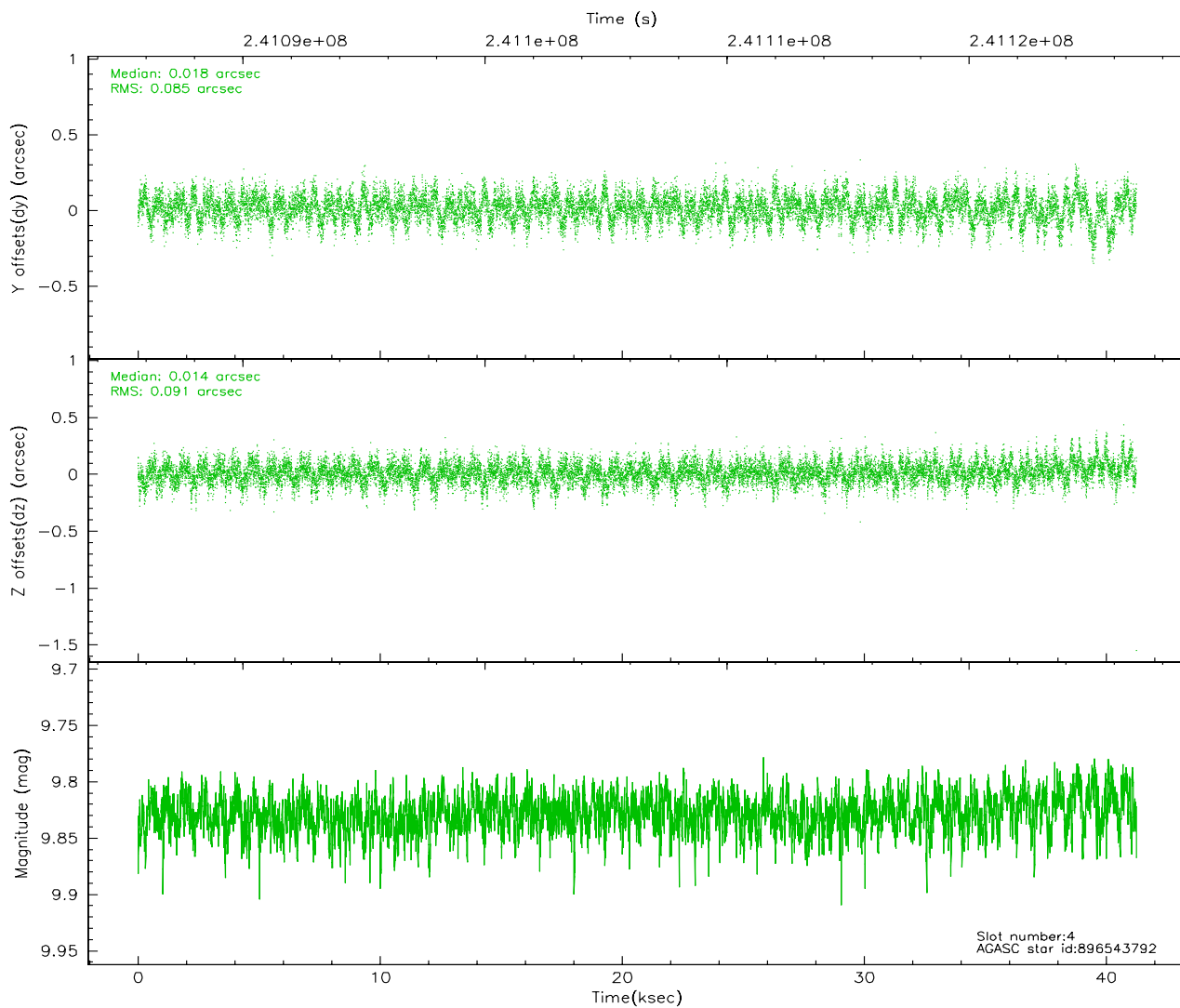
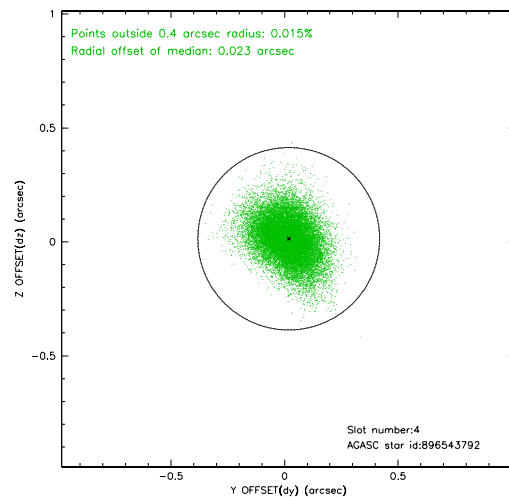
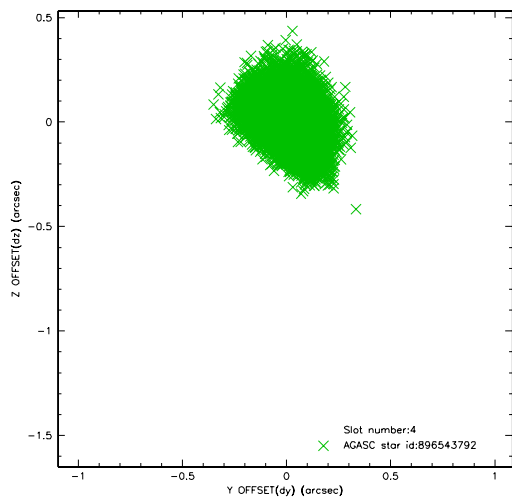
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	10058	-0.049	0.070	0.013	0.020	0.000000	0.000000	933.33	-833.24
1	FID	ACIS-I-2	7.14	10062	-0.117	-0.066	0.009	0.015	0.000000	0.000000	-760.82	-839.82
2	FID	ACIS-I-4	7.18	10059	0.067	0.062	0.011	0.024	0.000000	0.000000	2153.33	1066.54
3	GUIDE	896540528	8.25	20116	-0.037	-0.160	0.076	0.117	267.368305	-29.314773	-978.72	-1469.44
4	GUIDE	896543792	9.83	20106	0.018	0.014	0.131	0.219	267.148052	-29.957989	1308.25	-2248.50
5	GUIDE	898247688	8.66	20116	-0.204	0.167	0.078	0.127	268.426687	-29.012154	-1919.32	1902.93
6	GUIDE	898248800	8.22	20116	-0.028	-0.108	0.060	0.095	267.977609	-29.931731	1321.28	341.03
7	GUIDE	967053960	9.24	20109	0.257	0.085	0.084	0.138	268.185736	-30.091336	1925.60	962.81

## 2.4 Star Slots

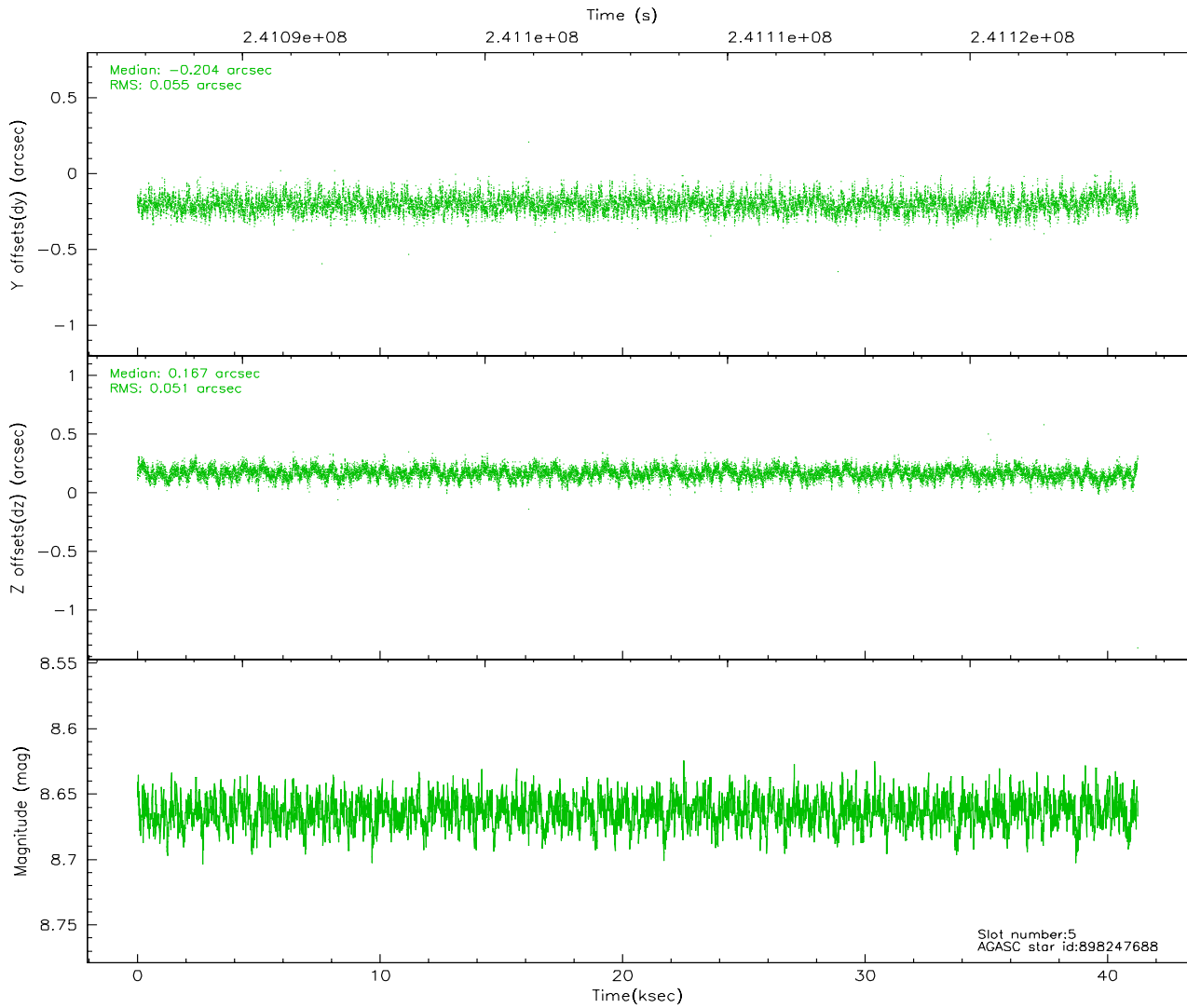
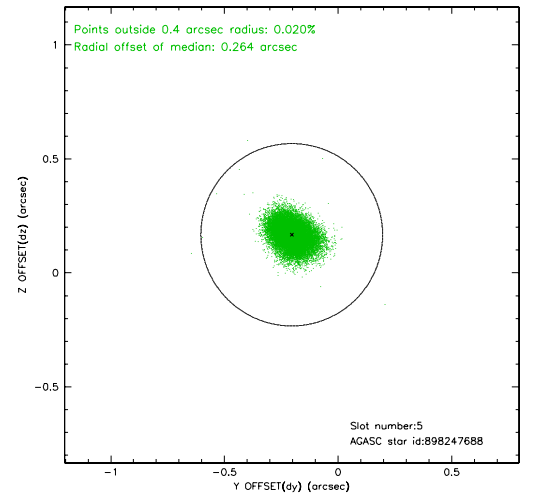
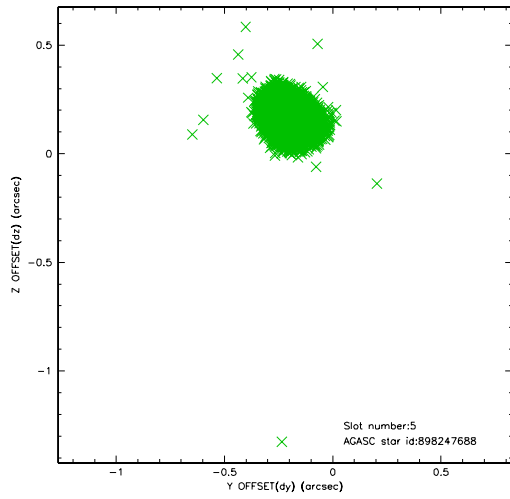
### 2.4.1 Slot 3



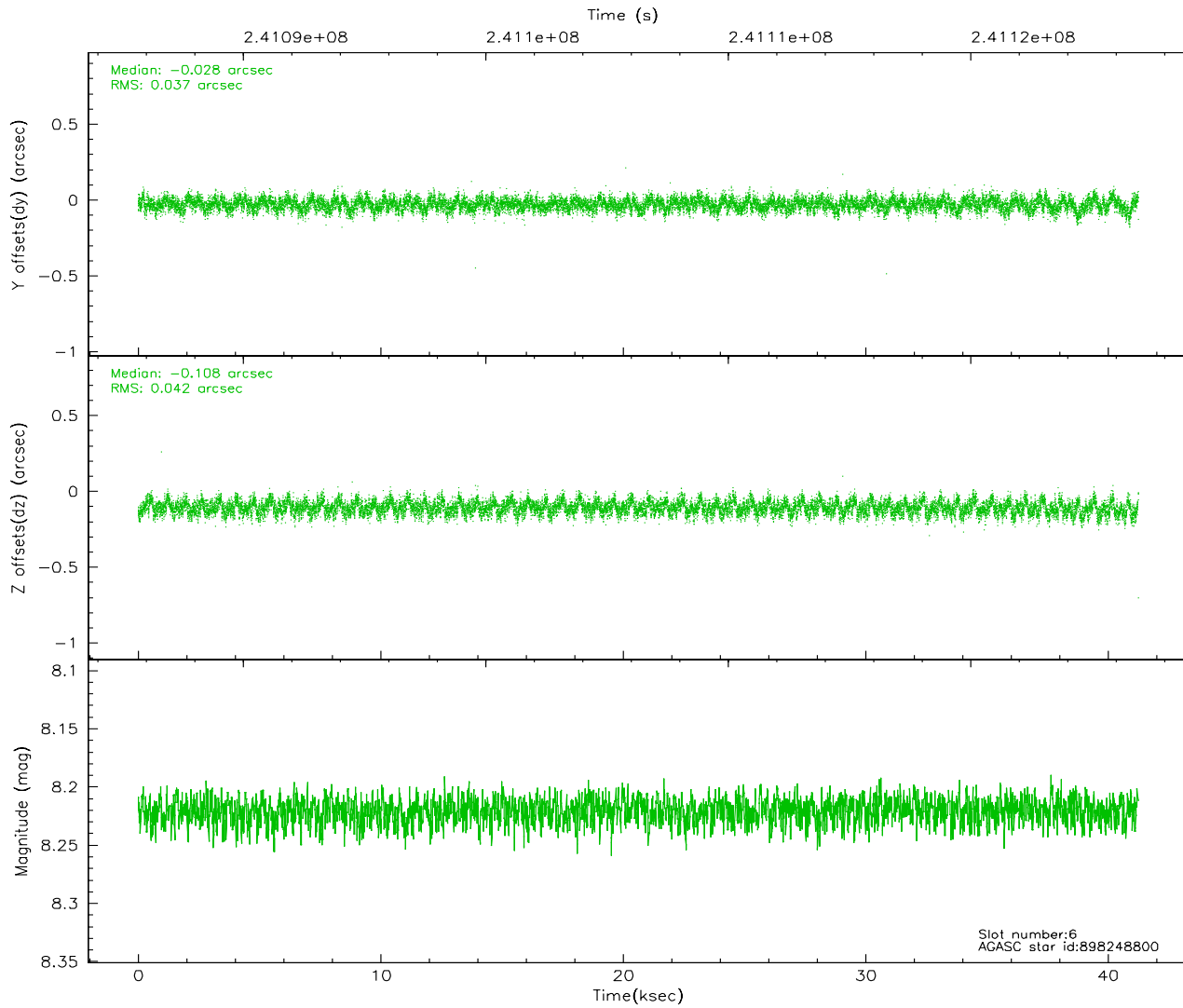
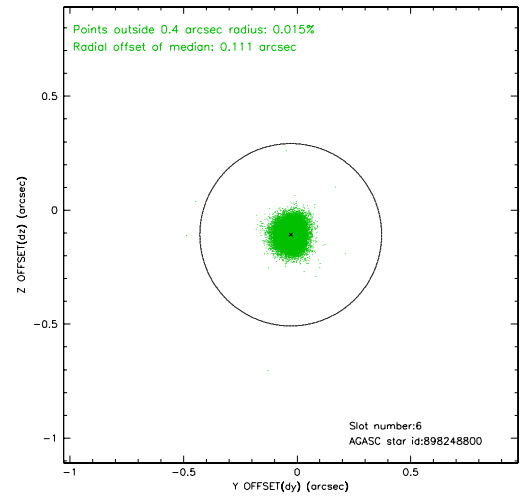
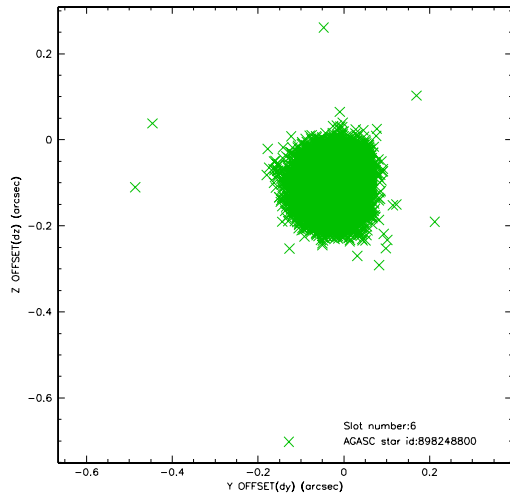
## 2.4.2 Slot 4



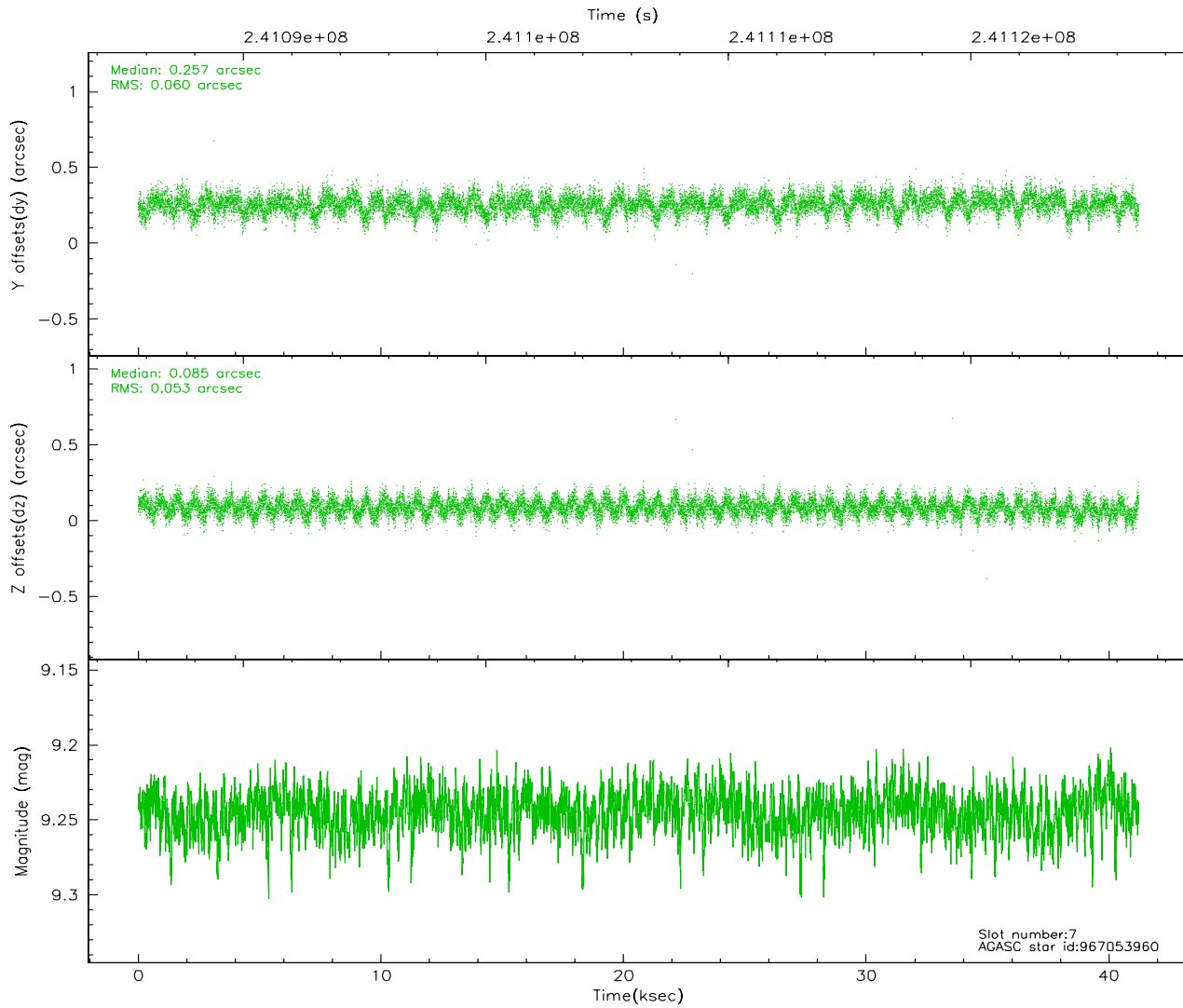
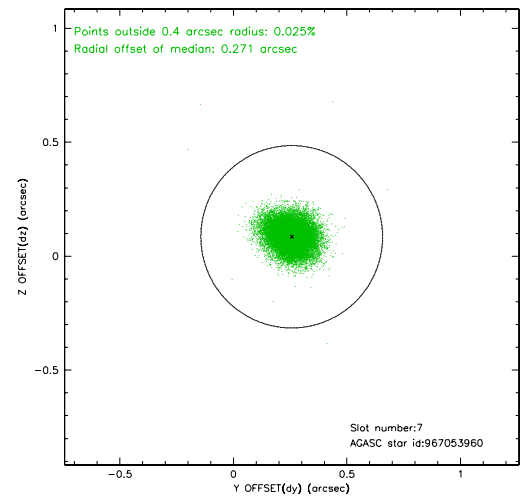
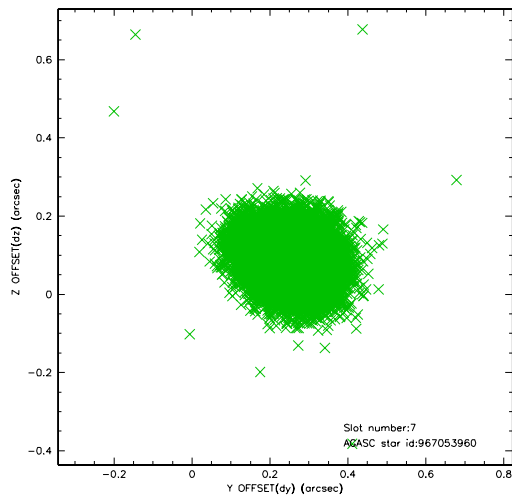
### 2.4.3 Slot 5



### 2.4.4 Slot 6

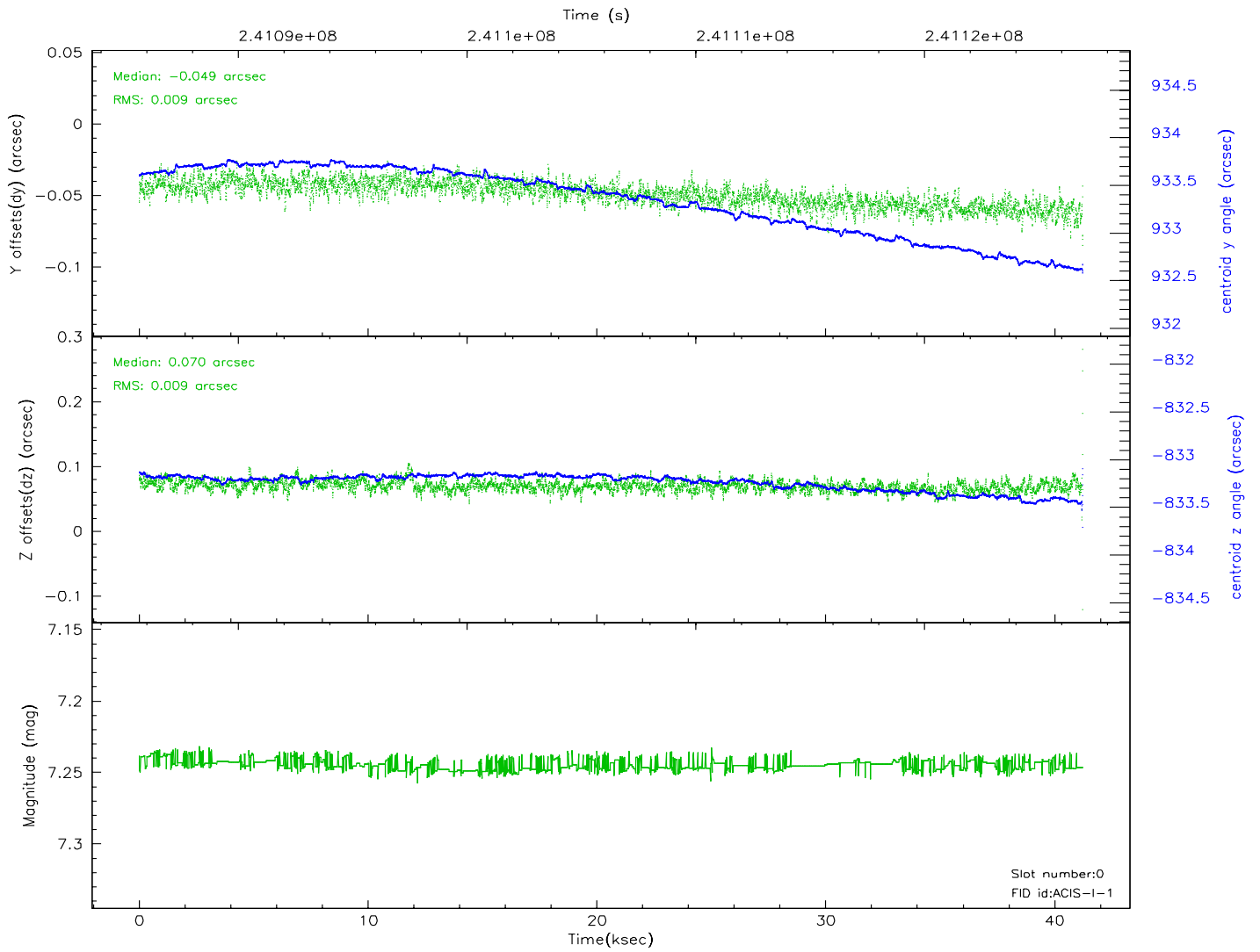
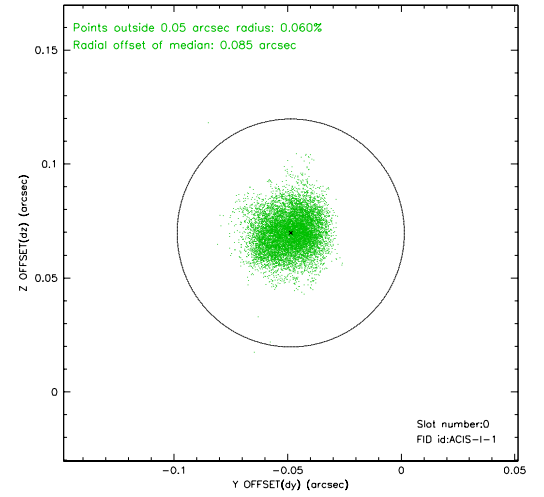
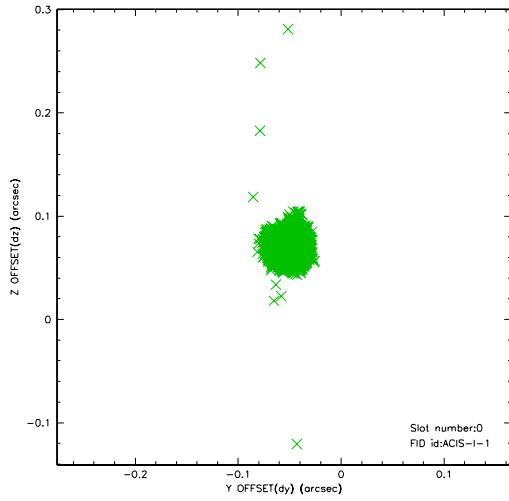


## 2.4.5 Slot 7

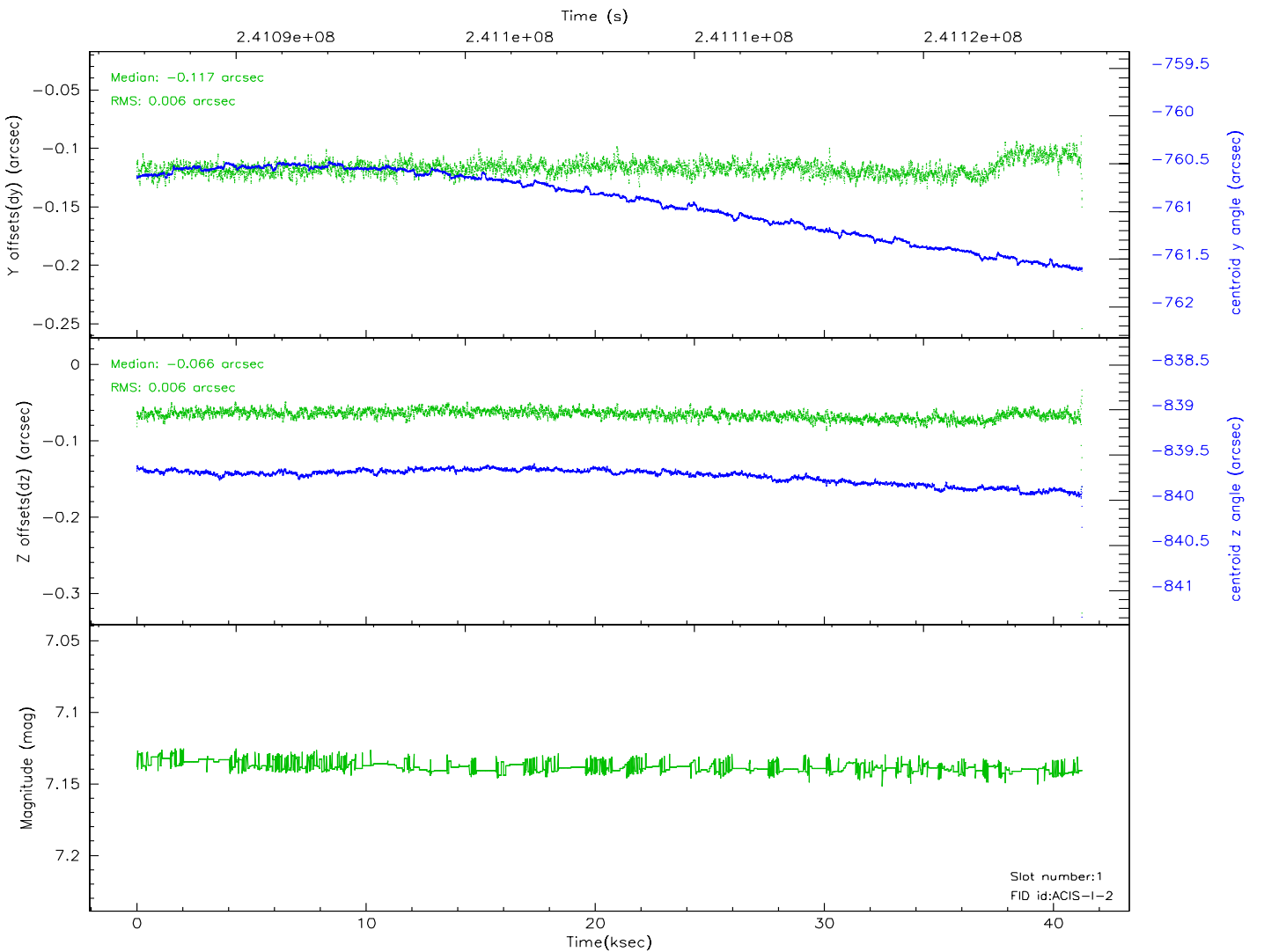
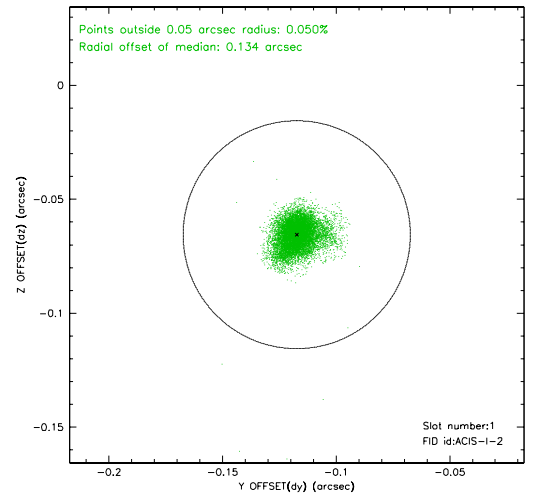
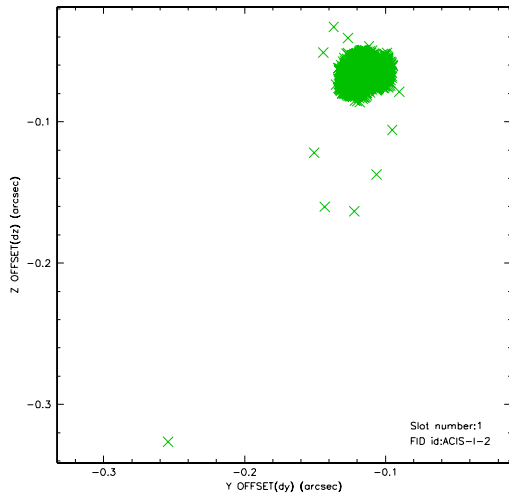


## 2.5 FID Slots

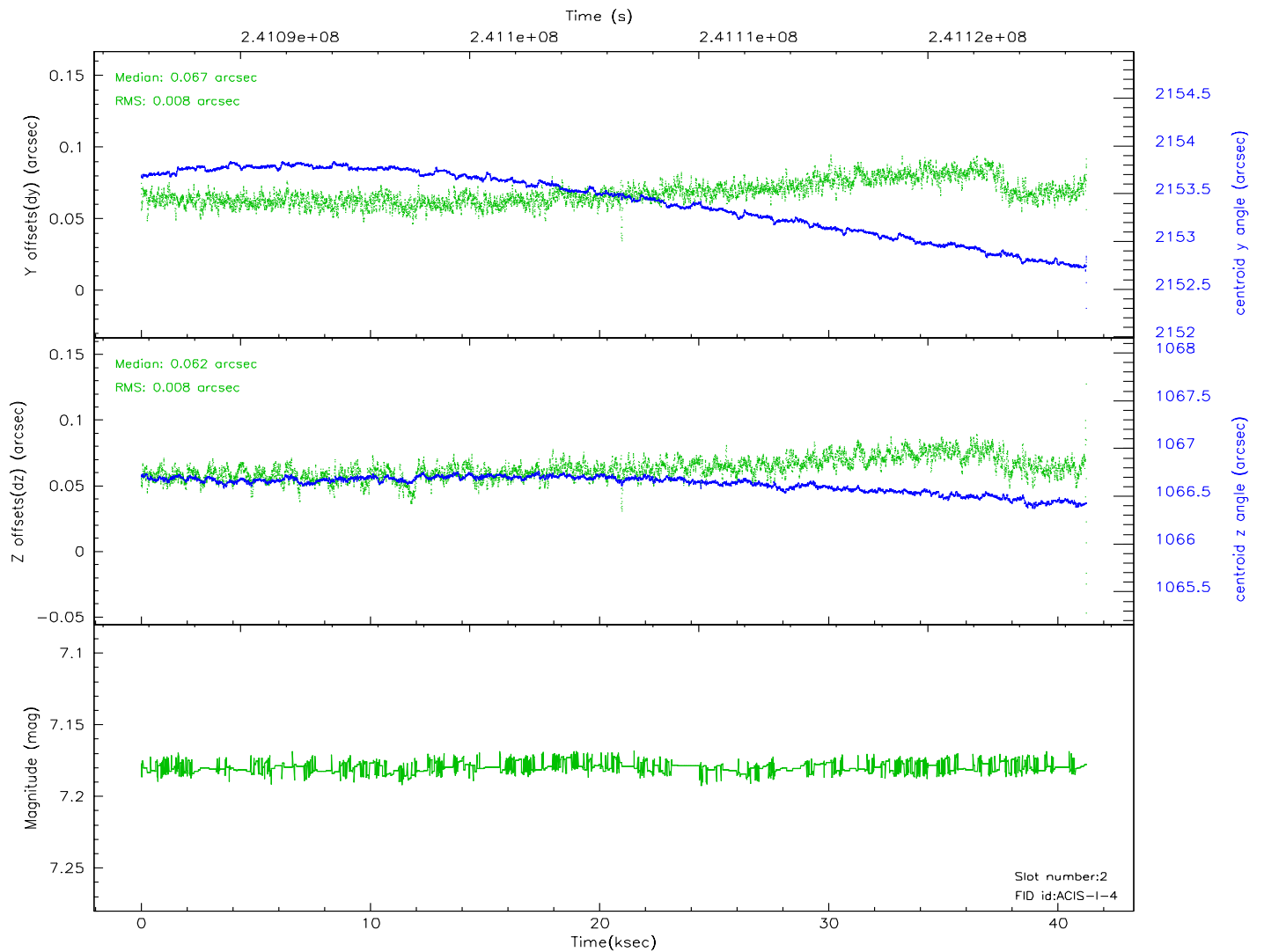
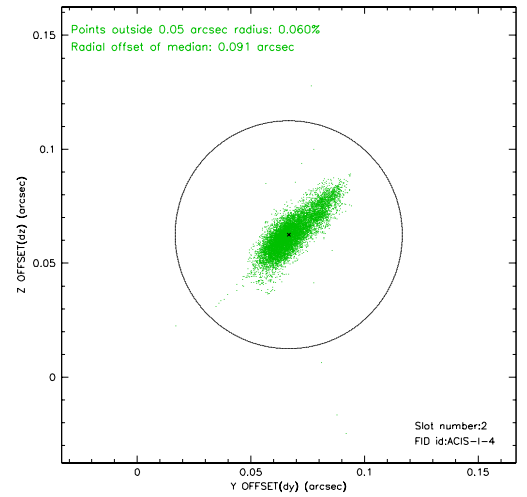
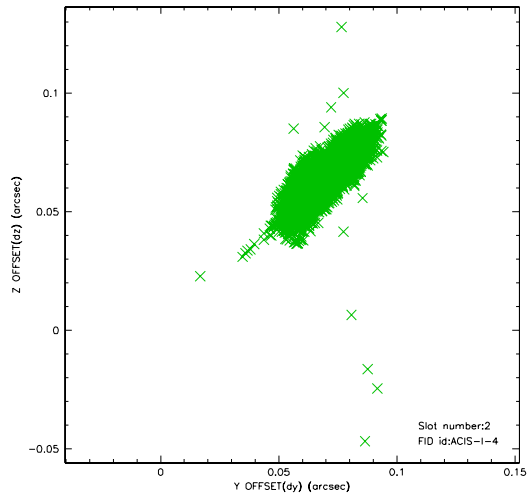
### 2.5.1 Slot 0



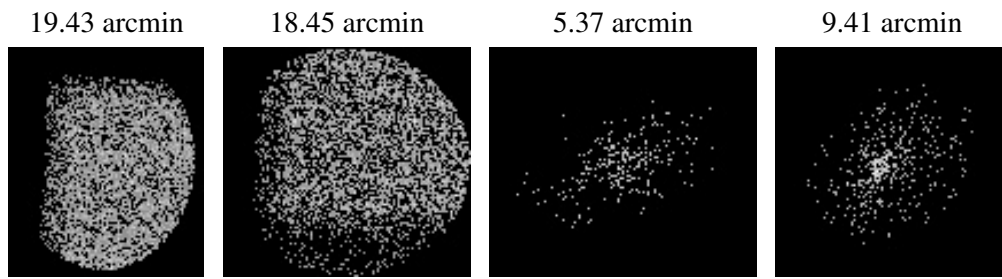
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2009.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.0528

## A.2 Comments

Joint Proposal:HST

Focal plane temperature is warmer than -118.7 C degrees during the first 28 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 19:40:20 GMT.