

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 2838 - L2 Version 001  
Chandra X-Ray Center

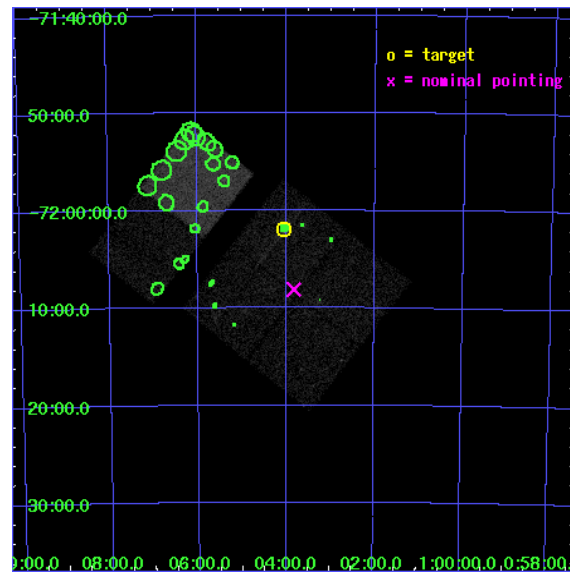
L2 Processing Date : Jan 21 2007

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# 1 Front

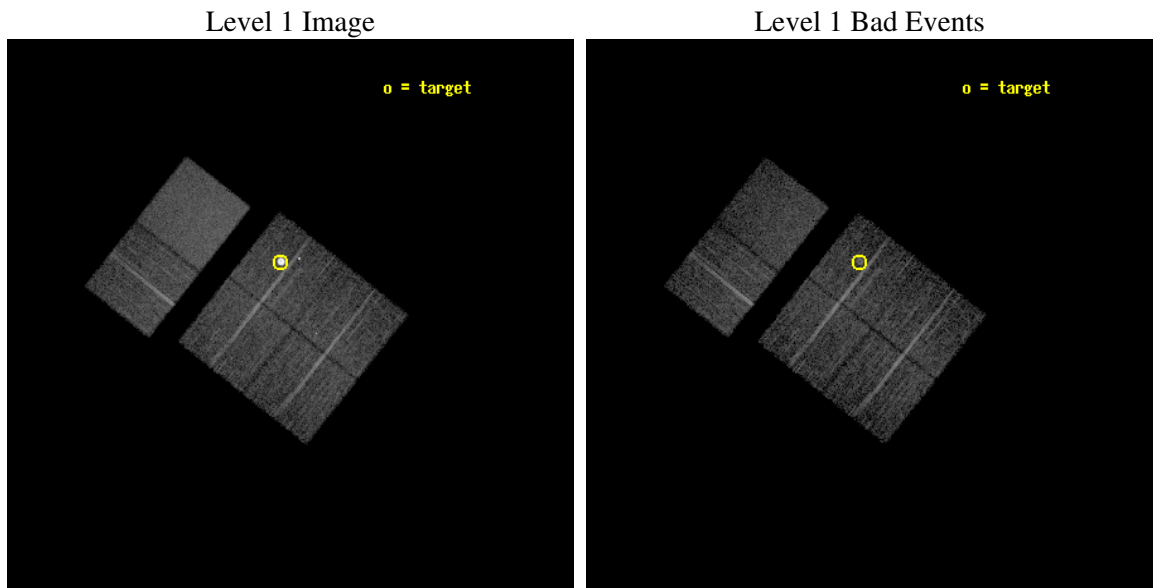
seq_num	590227
obs_id	2838
title	AO3A ACIS-I CALIBRATION OBSERVATIONS OF E0102-72
observer	Dr. CXC Calibration
object	E0102-72.3 [Chip I3, T=120, Offsets=-4,4,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	15.956446019289
dec_nom	-72.135339247231
roll_nom	308.38511592693
revision	2
ontime	7558.4000070393
livetime	7462.6909950281
ontime0	7555.1590467691
ontime1	7555.1590467691
ontime2	7558.4000070393
ontime3	7558.4000070393
ontime6	7558.4000070393
ontime7	7558.4000070393
l2events	78776



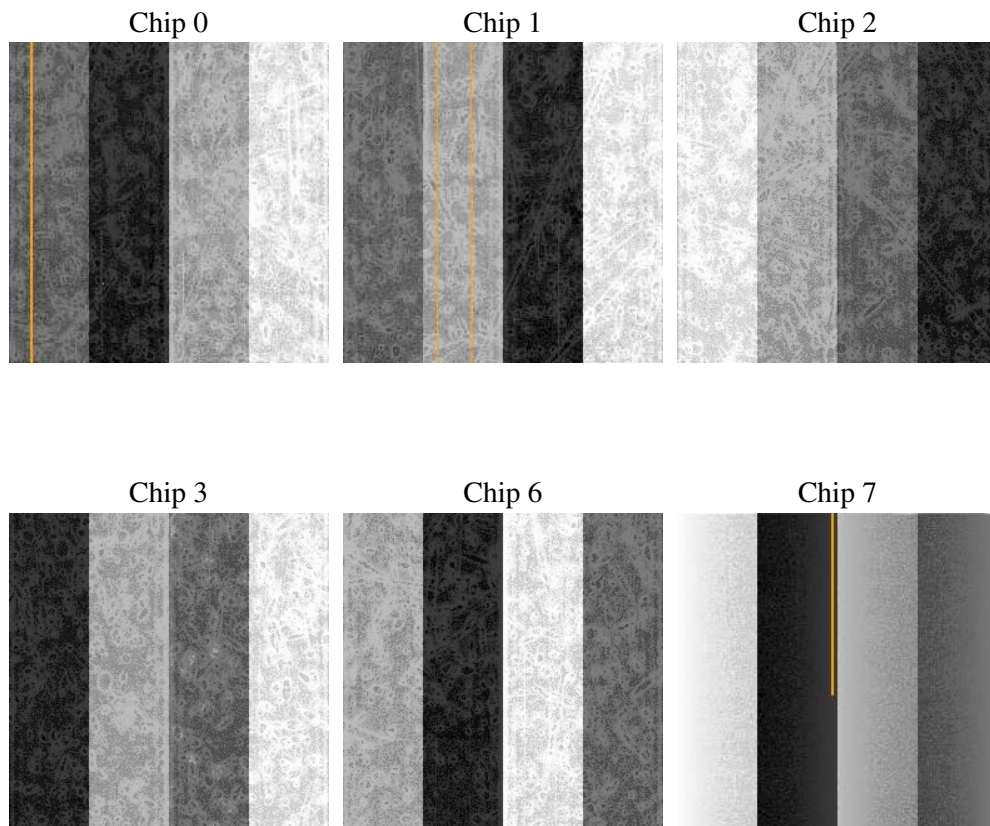
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldbver	3.3.0
date	2007-01-20T12:45:59
revision	2

sched_exp_time	7800.000000
ontime	7558.4000070393
ontime0	7555.1590467691
ontime1	7555.1590467691
ontime2	7558.4000070393
ontime3	7558.4000070393
ontime6	7558.4000070393
ontime7	7558.4000070393
l1events	322858

### 2.1.4 Events

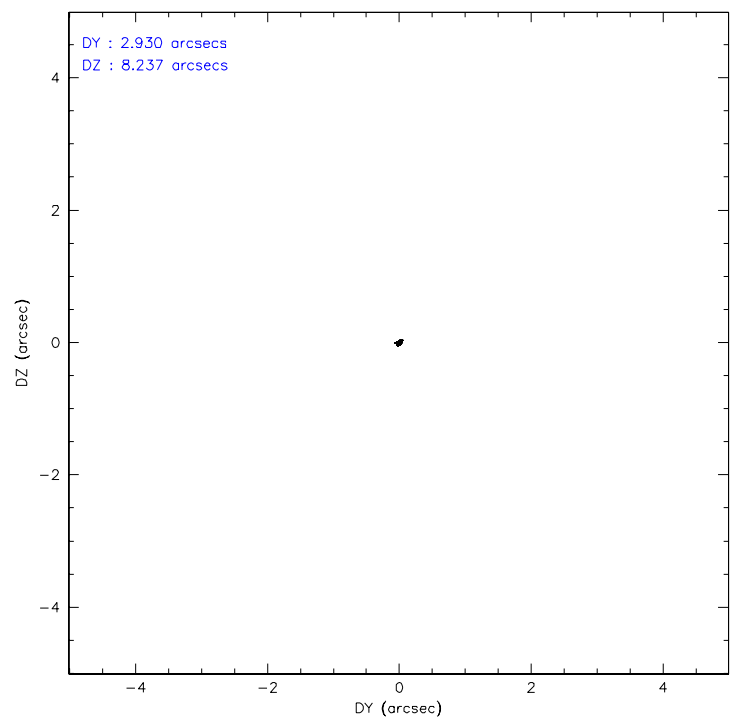
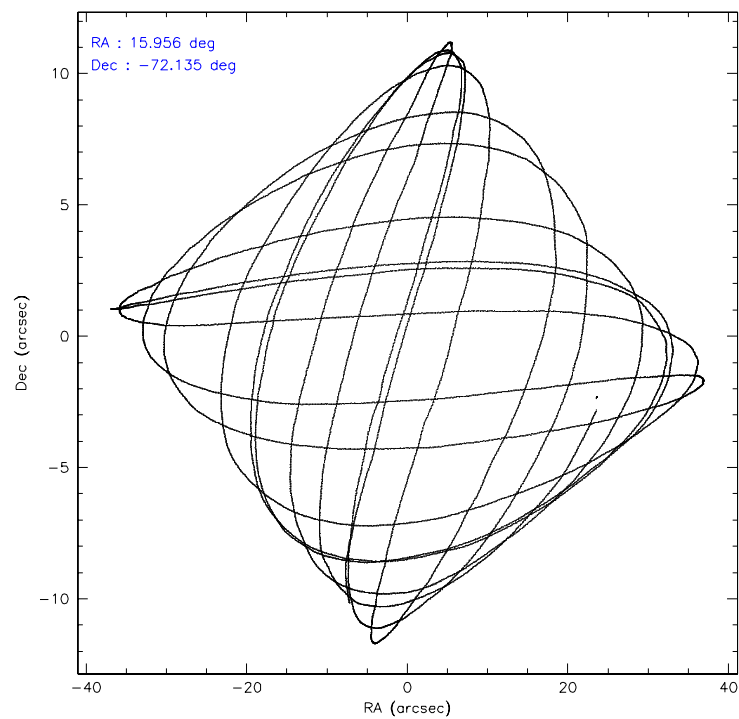
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	43993	44899	48236	71874	49344	64512
rejected events	38189	38295	41947	40452	43521	36990
rejected %	86%	85%	86%	56%	88%	57%

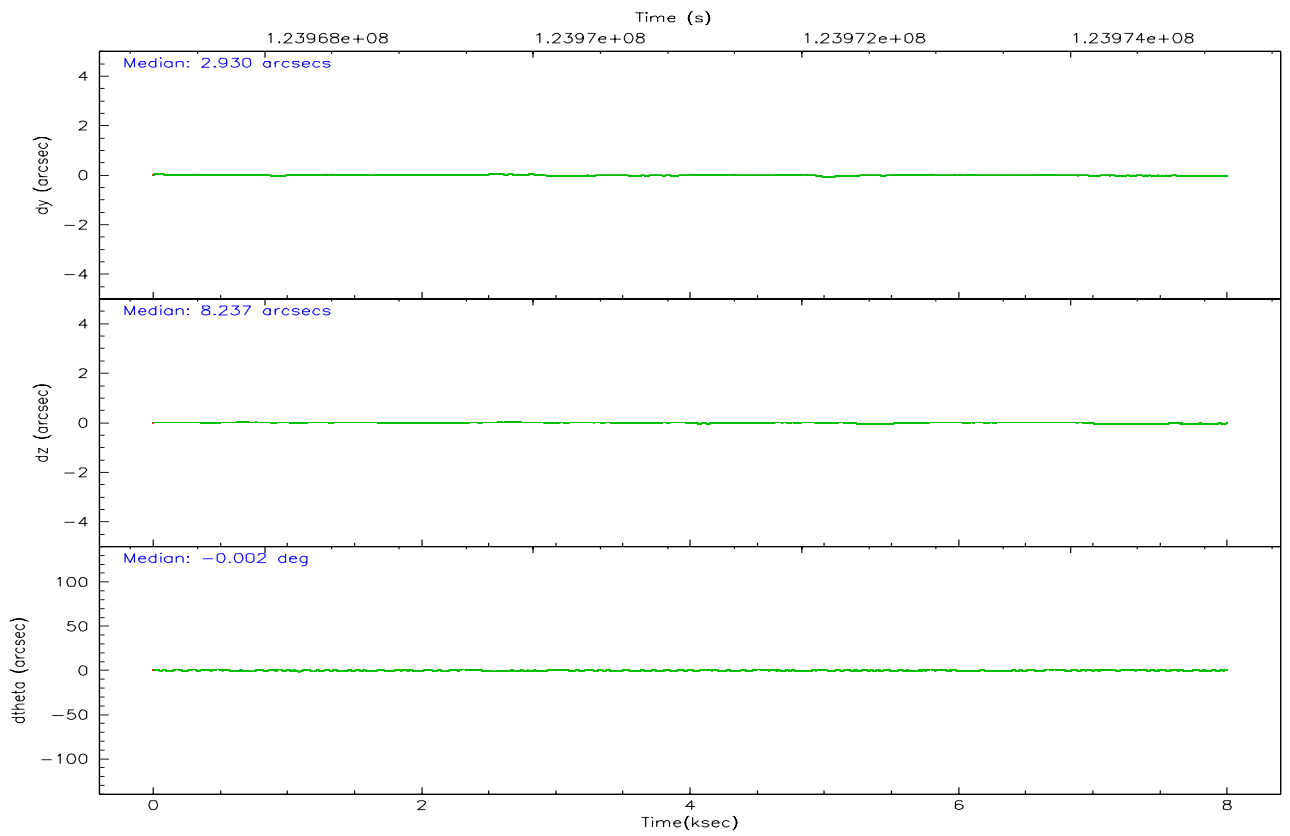
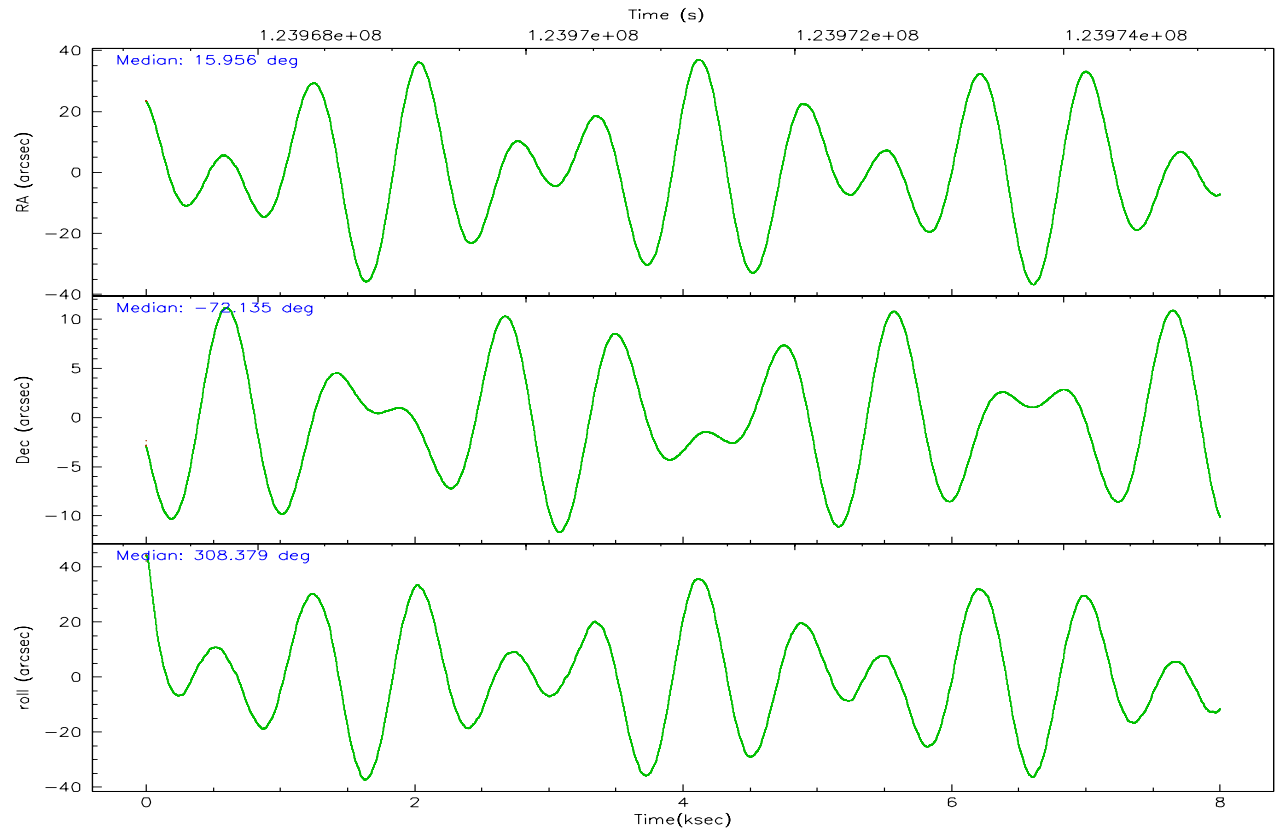
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2583	2942	3049	25208	2421	2650
	5%	6%	6%	35%	4%	4%
grade 1 events	29	23	24	195	31	56
	0%	0%	0%	0%	0%	0%
grade 2 events	1264	1229	1246	2983	1164	5438
	2%	2%	2%	4%	2%	8%
grade 3 events	536	635	517	1022	548	2368
	1%	1%	1%	1%	1%	3%
grade 4 events	483	615	512	983	541	2440
	1%	1%	1%	1%	1%	3%
grade 5 events	1818	1834	1723	1936	1992	5966
	4%	4%	3%	2%	4%	9%
grade 6 events	941	1187	969	1261	1154	14655
	2%	2%	2%	1%	2%	22%
grade 7 events	36339	36434	40196	38286	41493	30939
	82%	81%	83%	53%	84%	47%

## 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	15.873396	15.95644601928901	Subarray requested	NONE	NONE
Pointing Dec	-72.125281	-72.1353392472308	Alternating exposures requested	N	N
Pointing Roll	308.097356	308.3851159269303	Primary exposure time	0.000000	3.2
Window start time	123552064.184000	123552064.184000			
Window stop time	126144064.184000	126144064.184000			
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	123967369.184000	123966993.00864			
Observation start date	2001-12-05T19:21:45	2001-12-05T19:16:33			
Observation end time	123975169.184000	123975303.19647			
Observation end date	2001-12-05T21:31:45	2001-12-05T21:35:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect





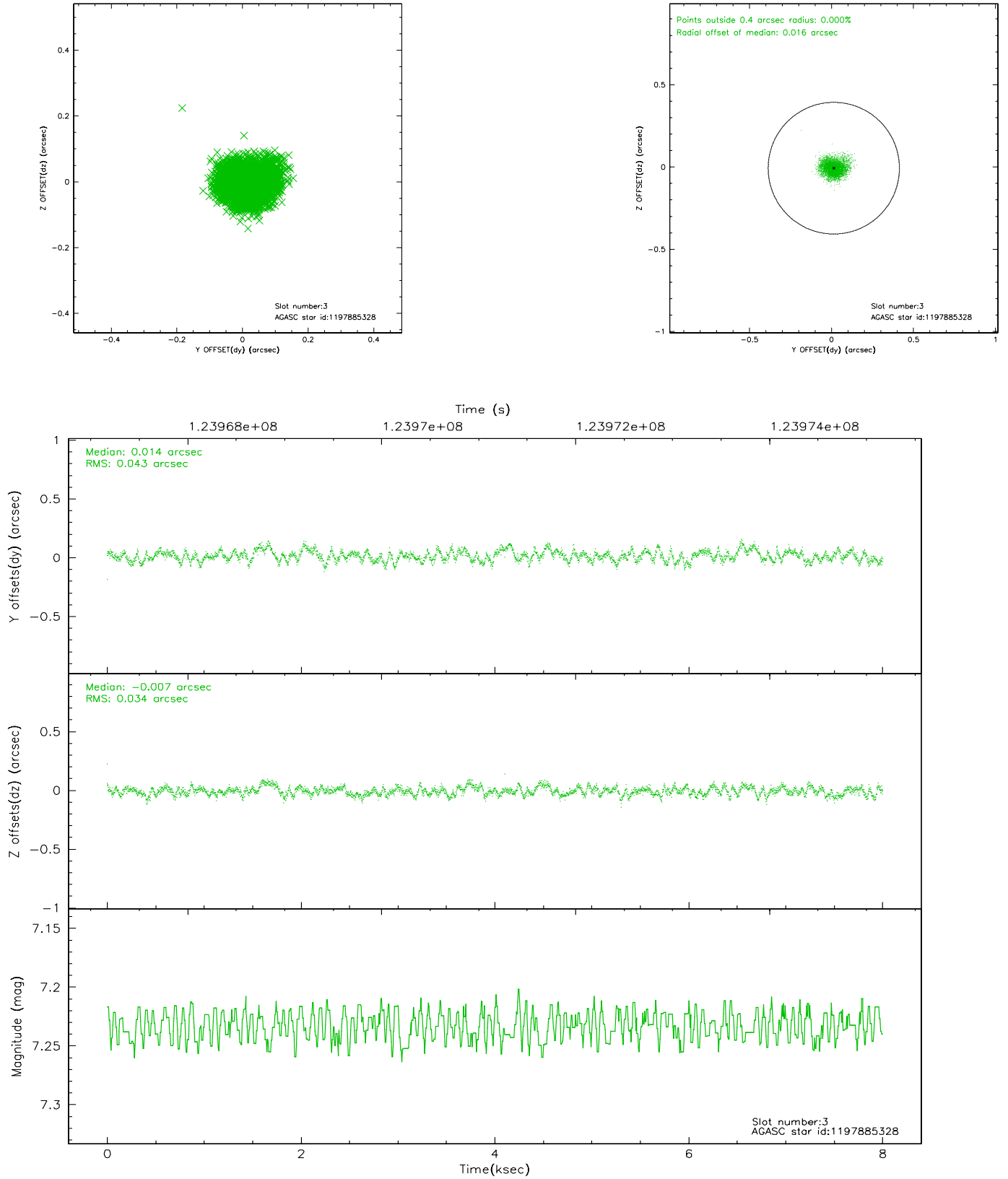
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1952	-0.044	0.088	0.006	0.011	0.000000	0.000000	936.82	-831.58
1	FID	ACIS-I-5	7.24	1952	-0.014	0.030	0.006	0.010	0.000000	0.000000	-1810.85	1065.52
2	FID	ACIS-I-6	7.26	1952	-0.034	-0.048	0.007	0.011	0.000000	0.000000	401.63	1710.73
3	GUIDE	1197885328	7.23	3902	0.014	-0.007	0.058	0.095	16.283090	-71.733943	-822.45	1232.43
4	GUIDE	1198189696	7.37	3901	-0.023	0.087	0.059	0.092	15.223750	-72.697522	1194.85	-1820.02
5	GUIDE	1197750936	7.56	3902	0.016	-0.013	0.061	0.100	15.387940	-71.549550	-1970.46	841.72
6	GUIDE	1198283128	8.01	3904	-0.111	-0.080	0.050	0.081	17.272580	-72.642428	2405.20	23.64
7	GUIDE	1197749416	10.25	3899	0.104	0.013	0.165	0.296	13.610513	-71.871242	-2245.15	-1459.28

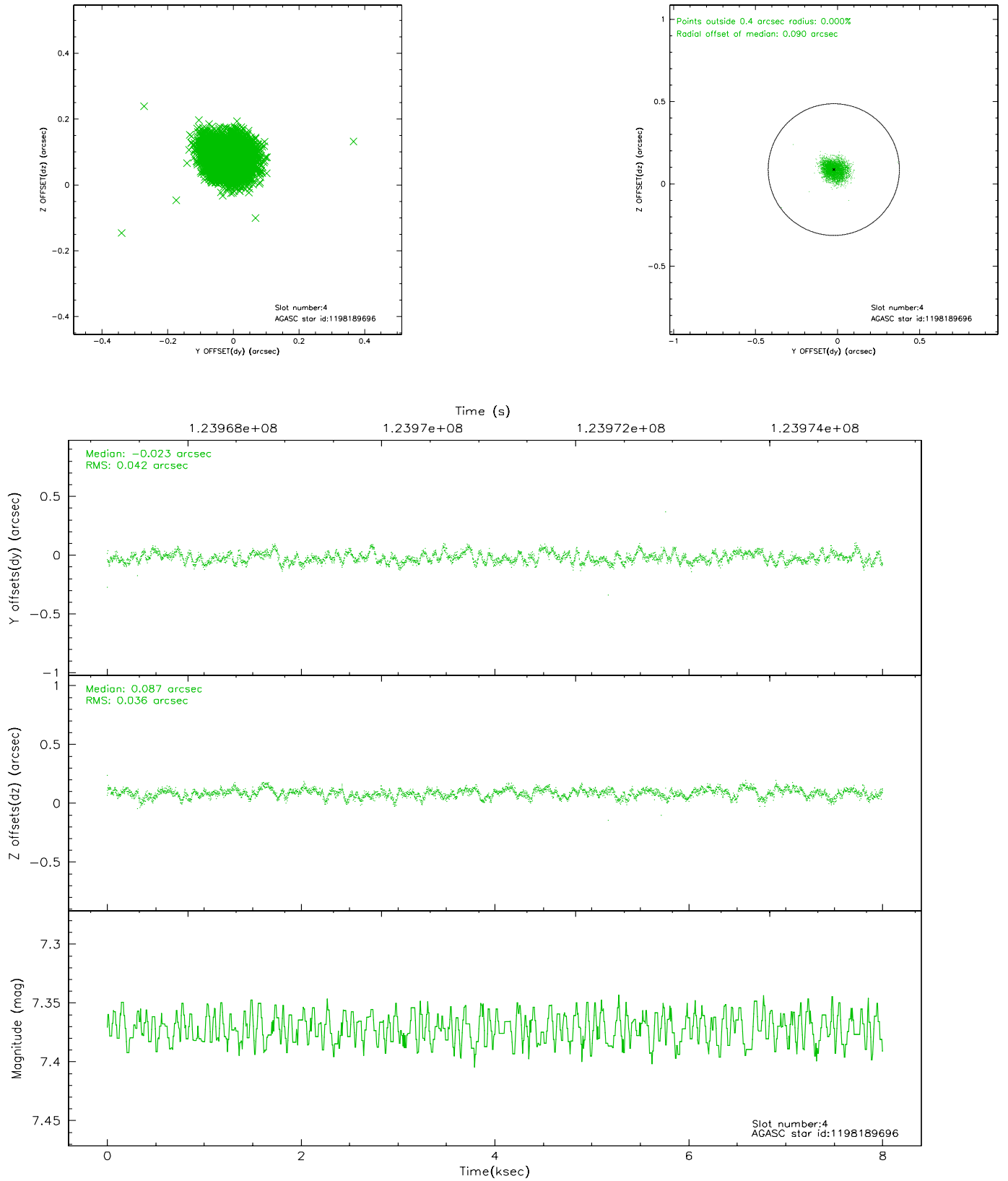


## 2.4 Star Slots

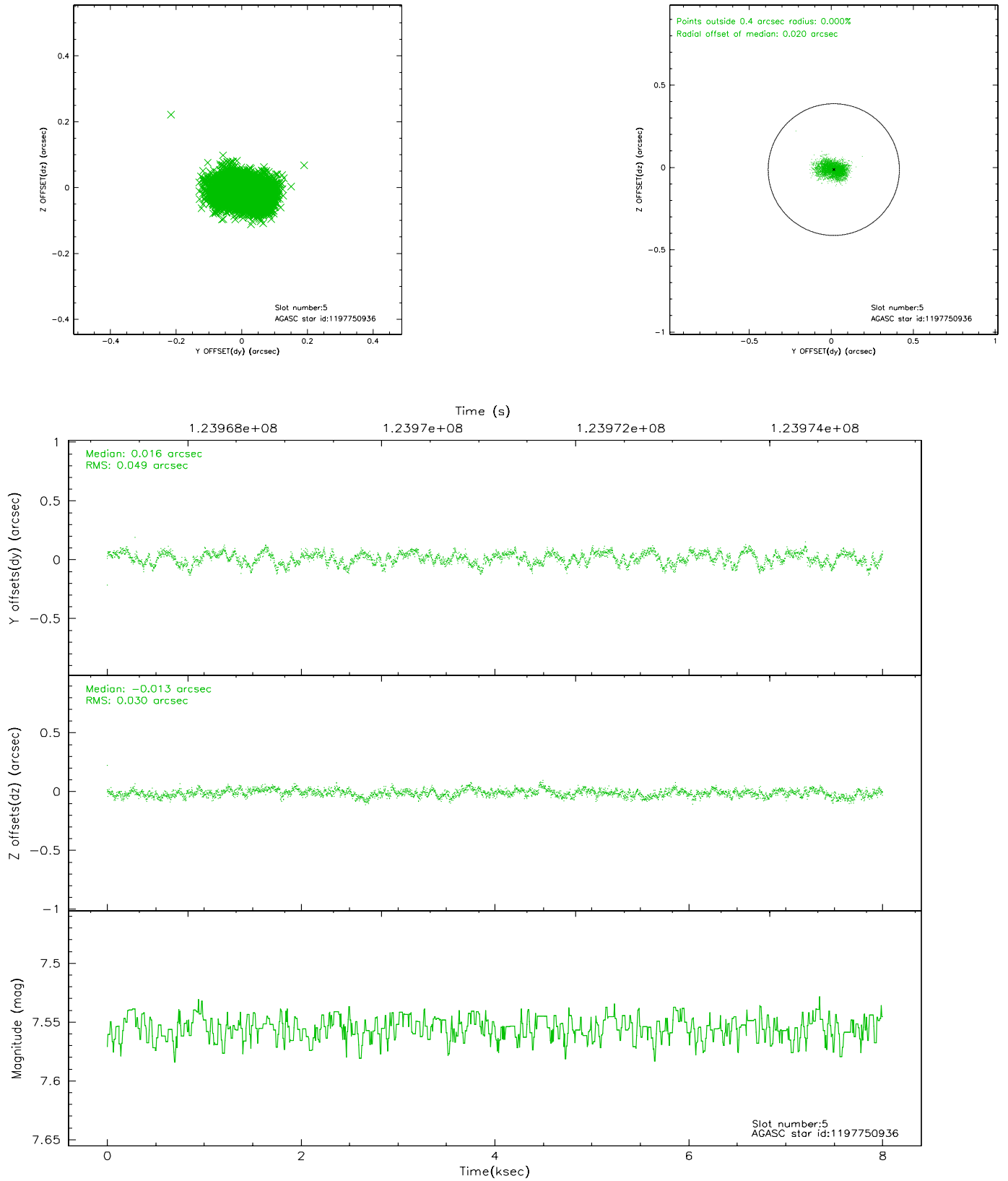
### 2.4.1 Slot 3



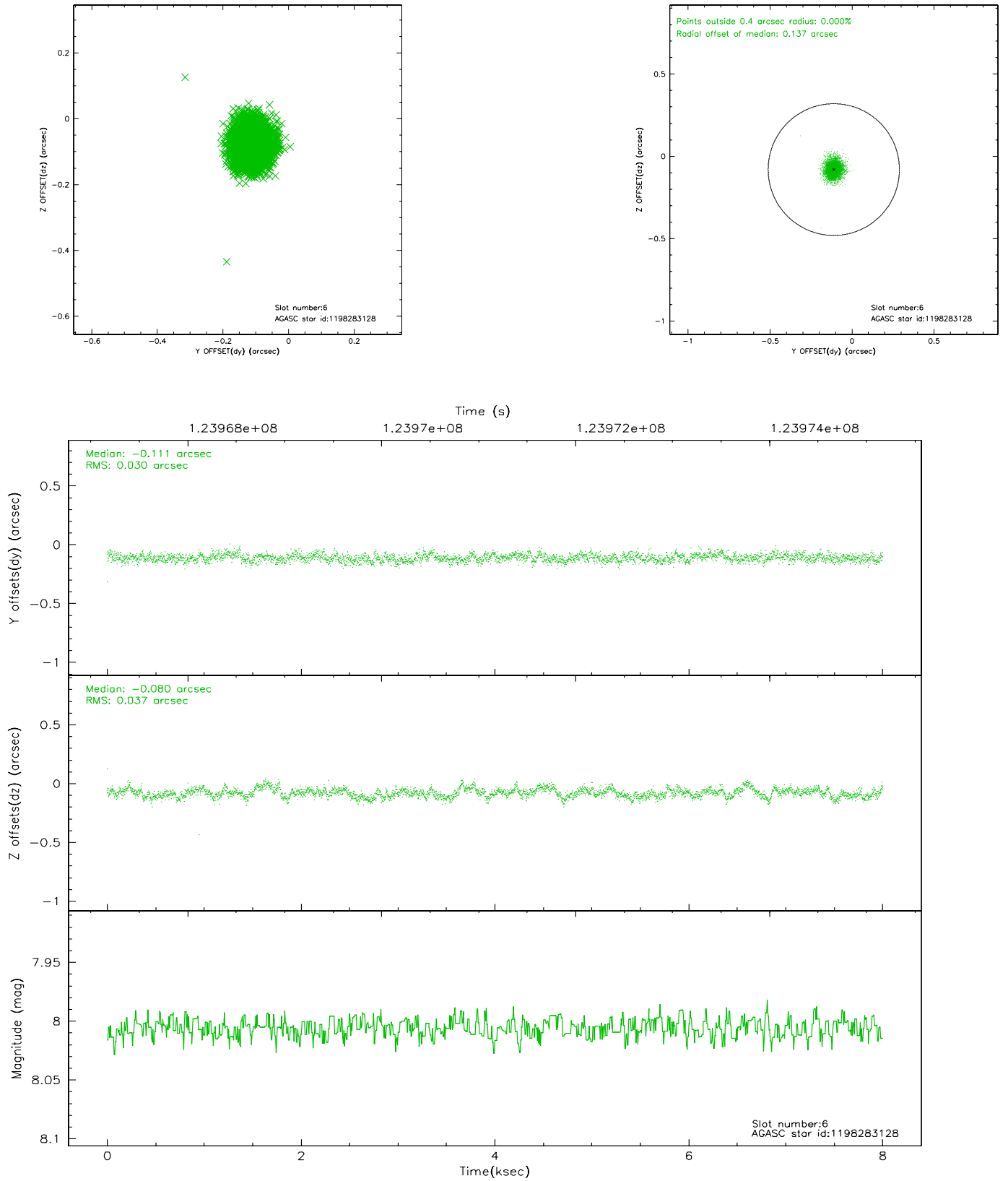
## 2.4.2 Slot 4



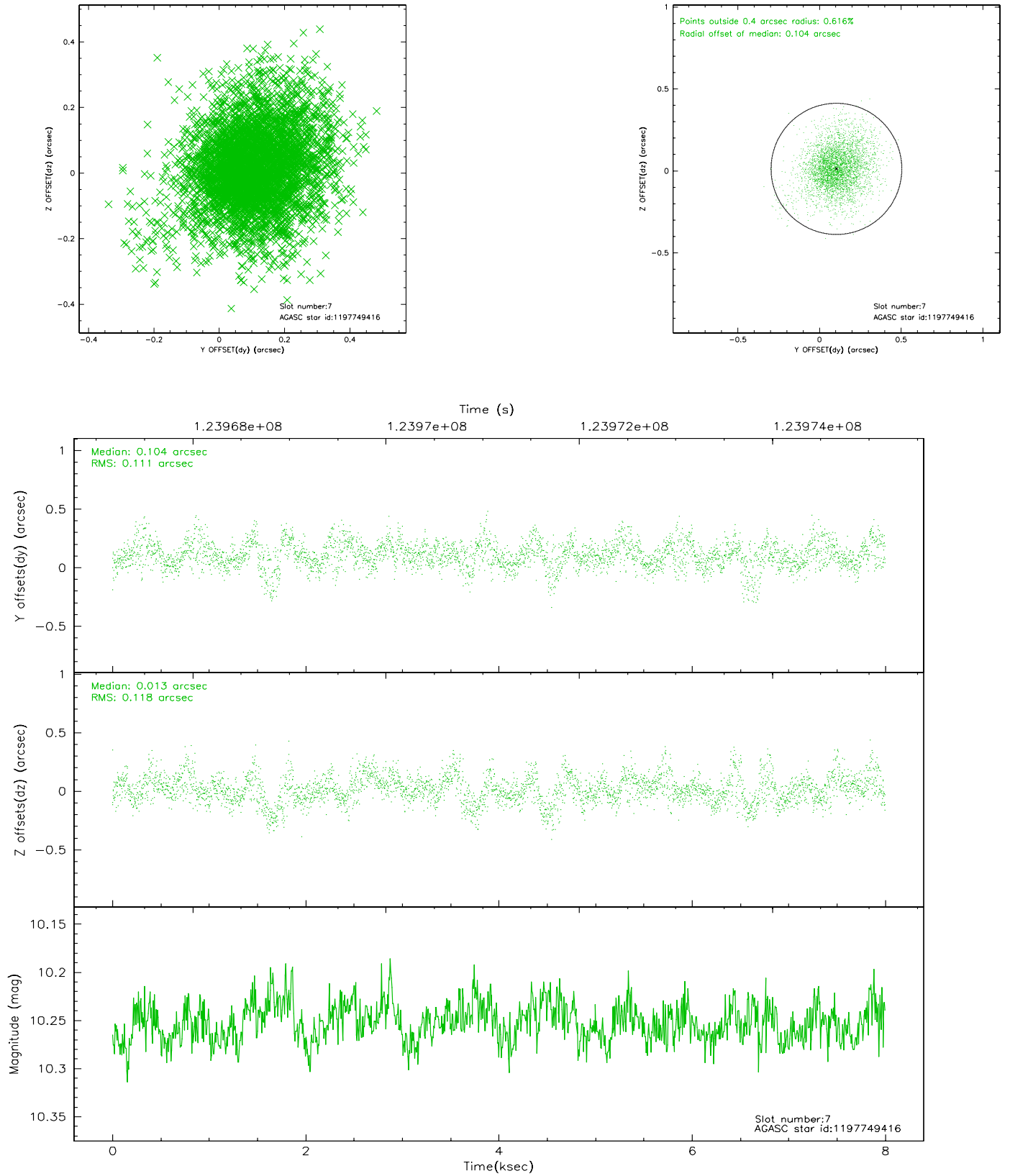
### 2.4.3 Slot 5



## 2.4.4 Slot 6

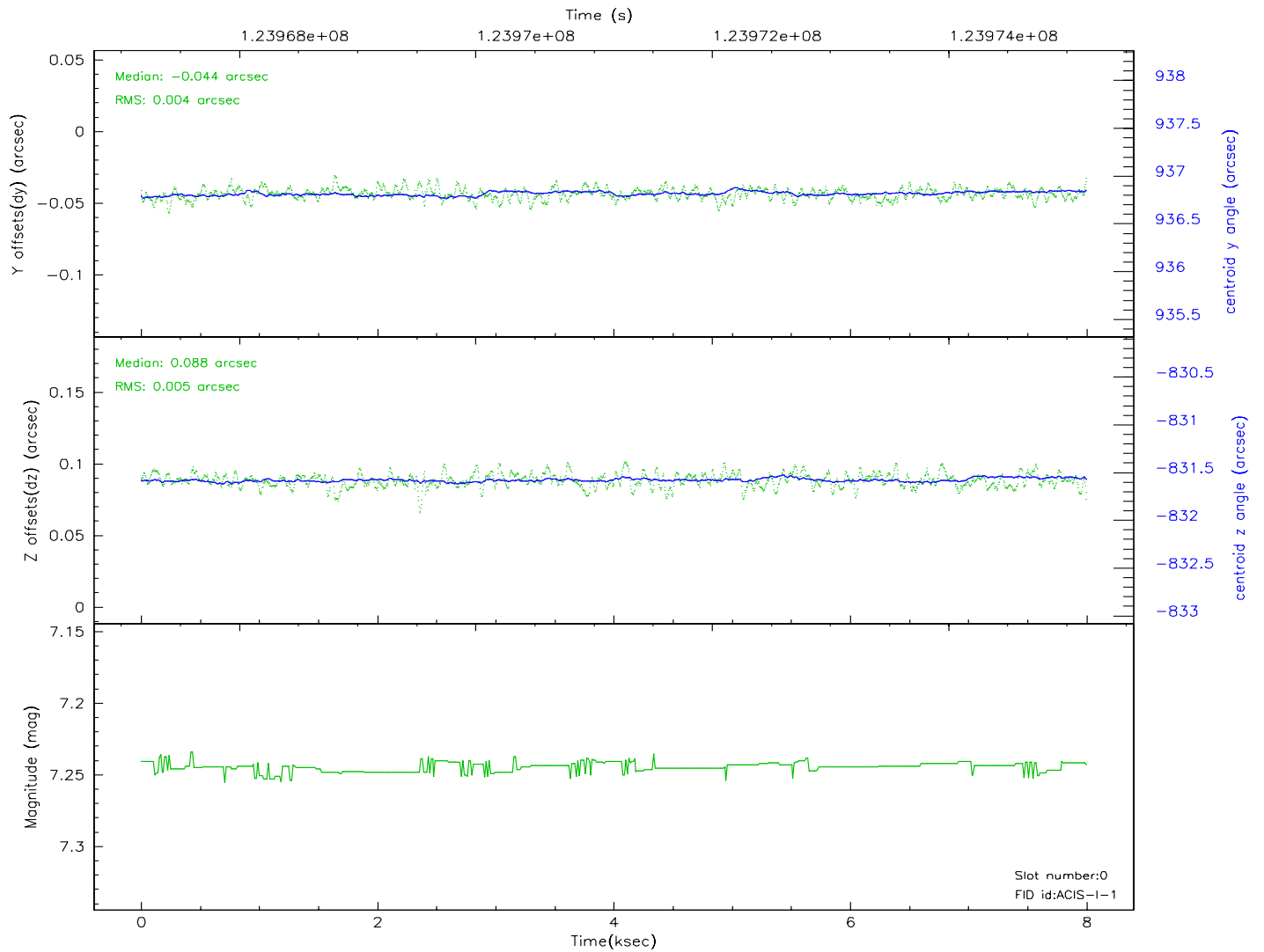
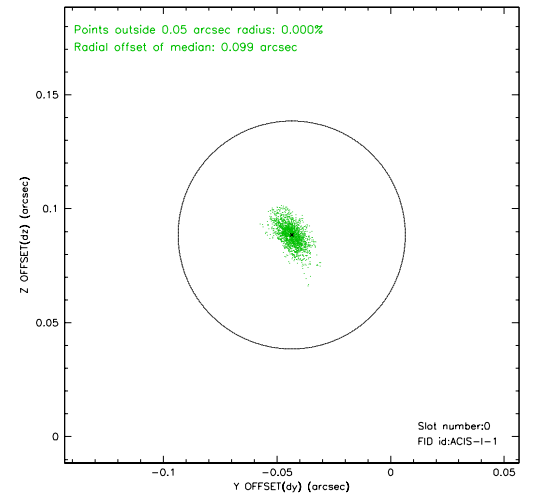
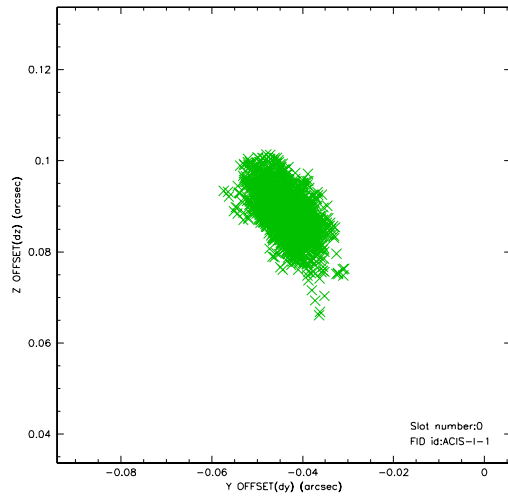


## 2.4.5 Slot 7

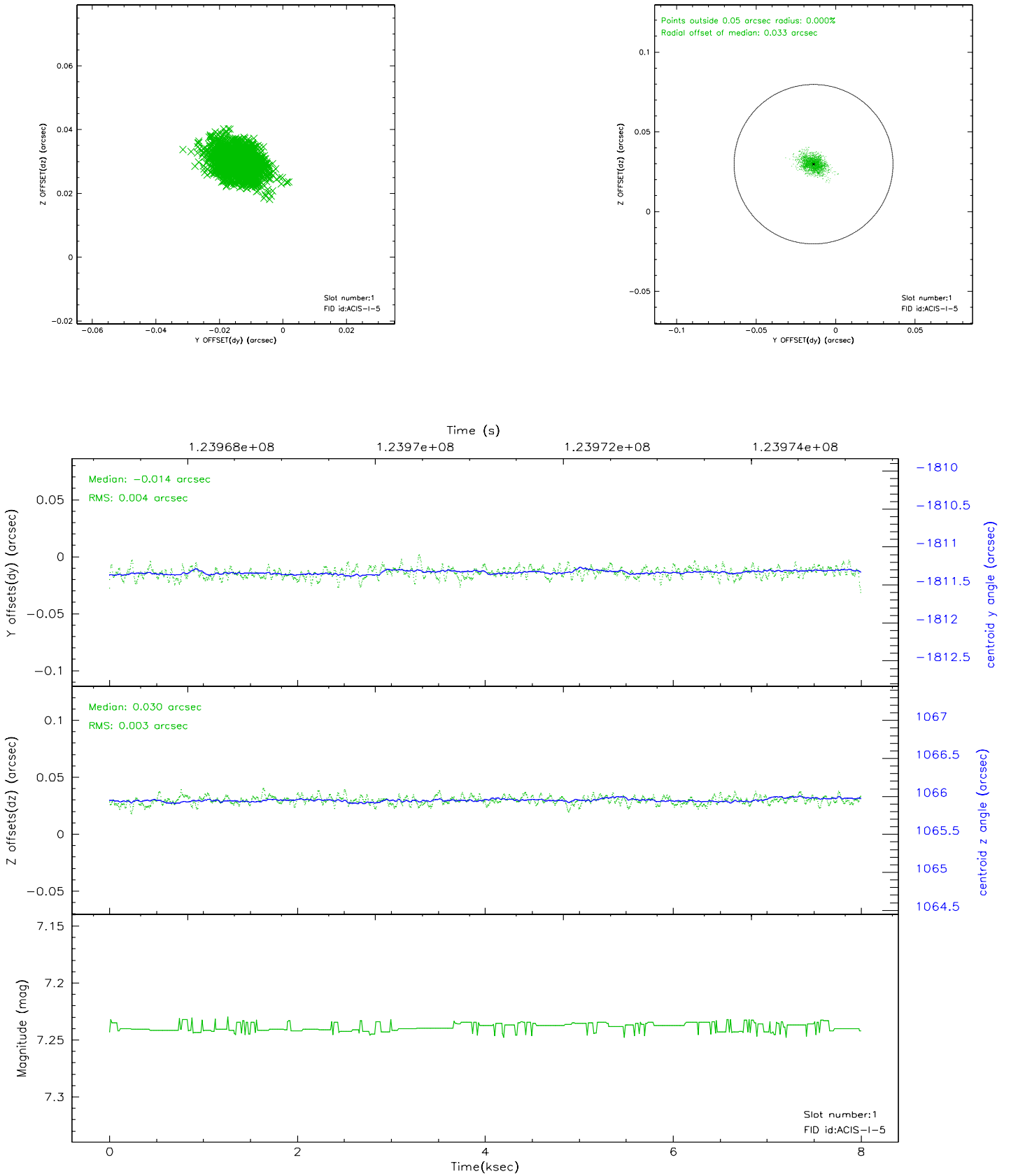


## 2.5 FID Slots

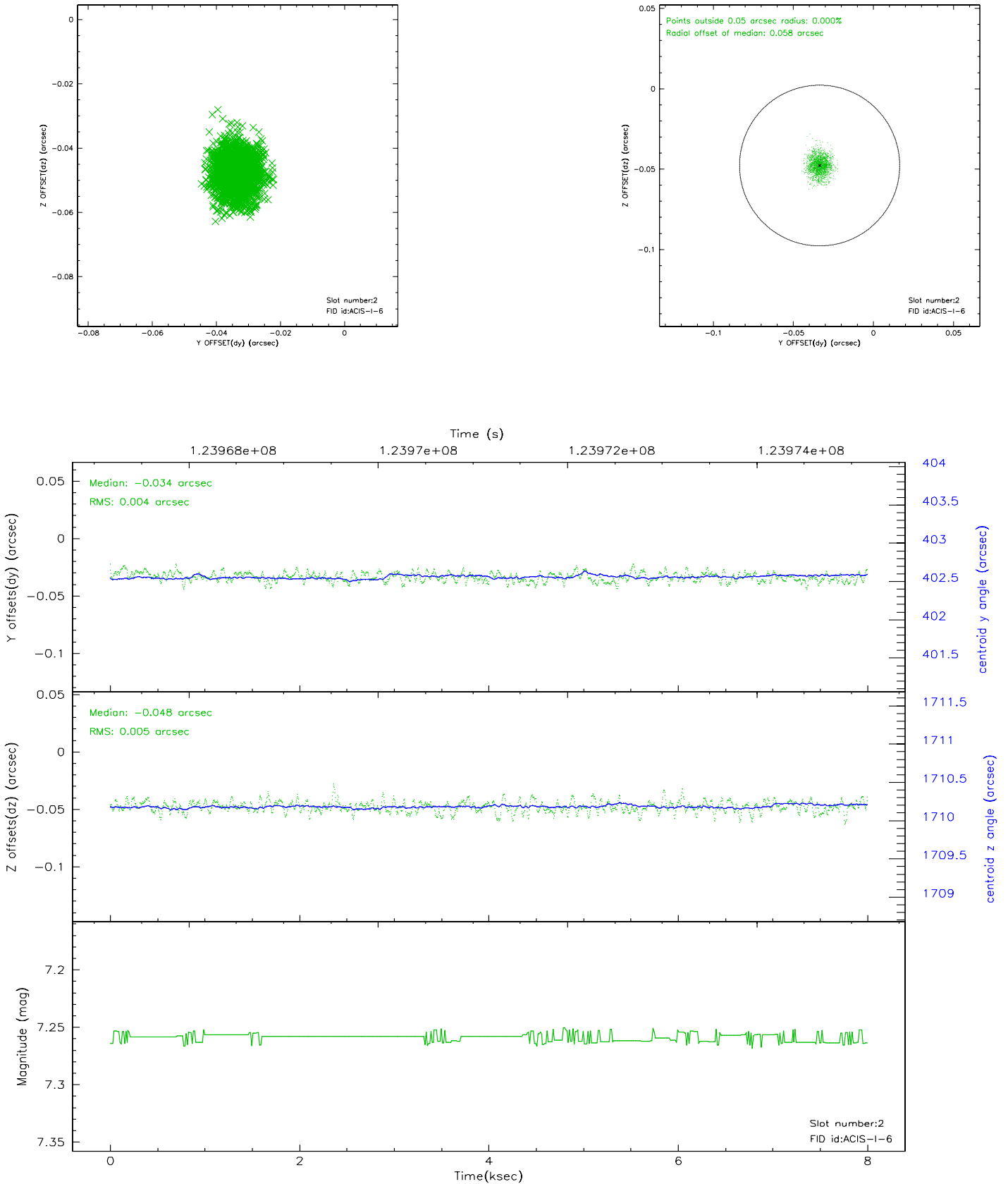
### 2.5.1 Slot 0



## 2.5.2 Slot 1

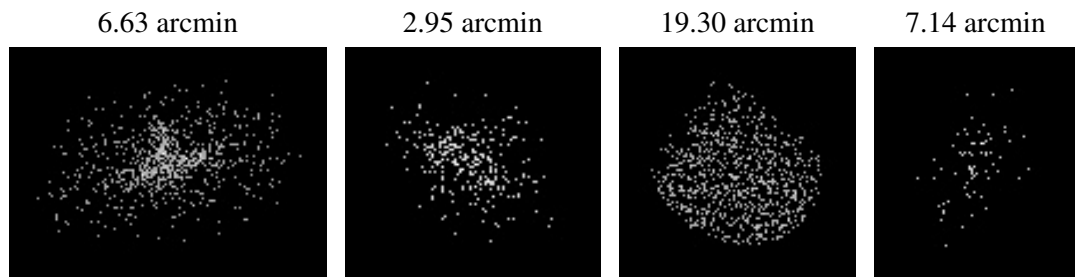


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.01.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.561

### A.2 Comments