

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 3365 - L2 Version 001  
Chandra X-Ray Center

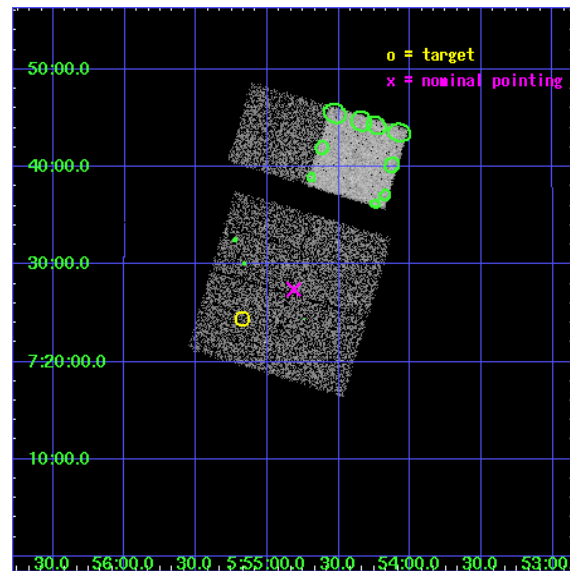
L2 Processing Date : Jan 18 2007

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# 1 Front

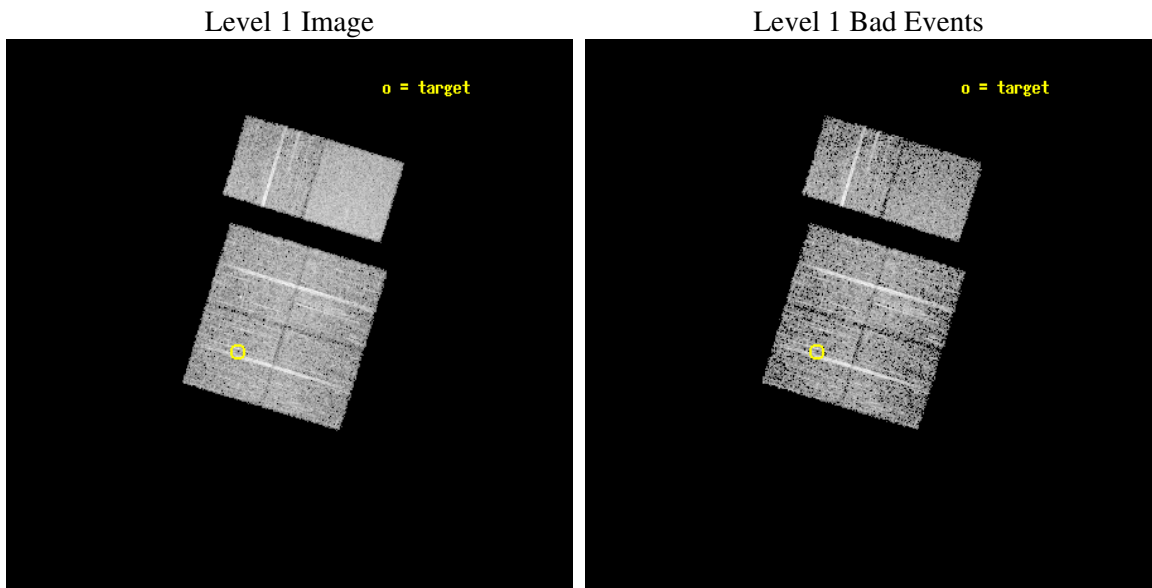
seq_num	290224
obs_id	3365
title	AO3 CALIBRATION OBSERVATIONS OF BETELGEUSE
observer	Dr. CXC Calibration
object	BETELGEUSE
dtcycle	0
cycle	P
ra_targ	88.792917
dec_targ	7.407056
ra_nom	88.703445024567
dec_nom	7.4571236086273
roll_nom	16.794475286681
revision	2
ontime	4960.0000046194
livetime	4897.1934980074
ontime0	4960.0000046194
ontime1	4960.0000046194
ontime2	4960.0000046194
ontime3	4960.0000046194
ontime6	4960.0000046194
ontime7	4960.0000046194
l2events	34119



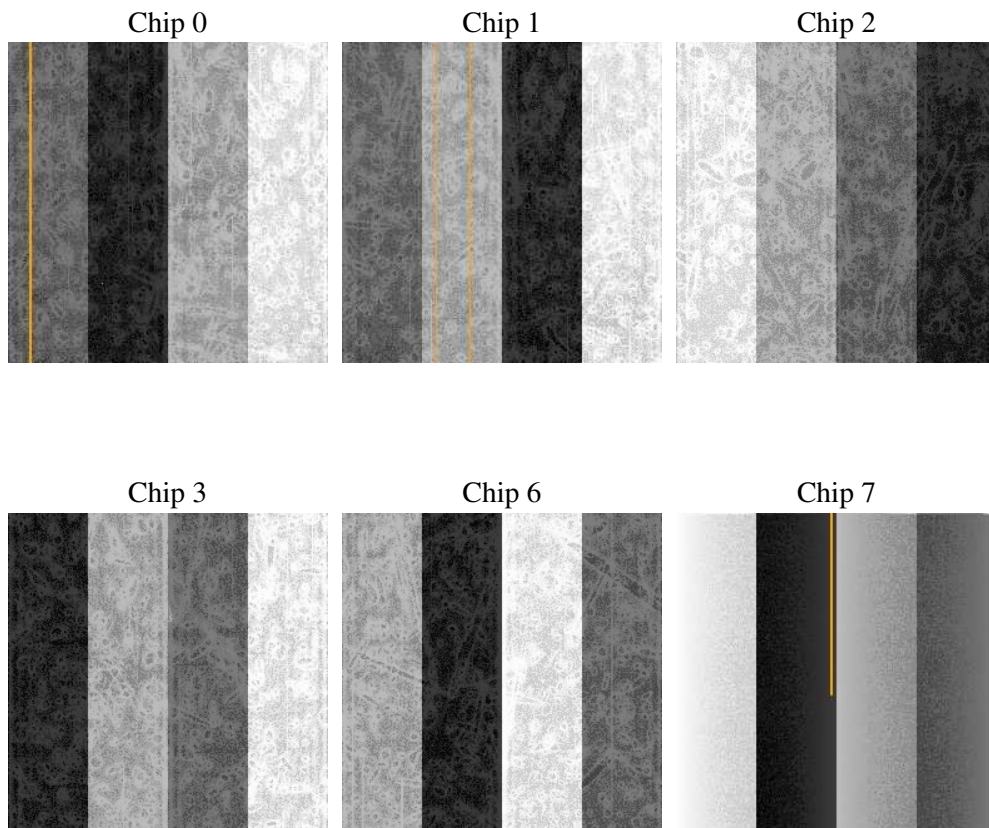
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.3.0
date	2007-01-18T03:56:27
revision	2

sched_exp_time	5000.000000
ontime	4960.0000046194
ontime0	4960.0000046194
ontime1	4960.0000046194
ontime2	4960.0000046194
ontime3	4960.0000046194
ontime6	4960.0000046194
ontime7	4960.0000046194
l1events	202650

### 2.1.4 Events

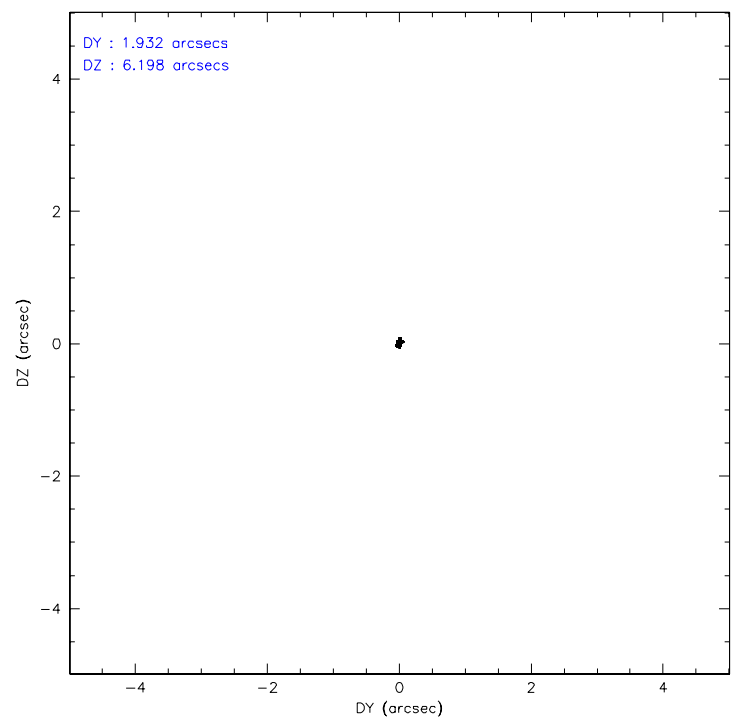
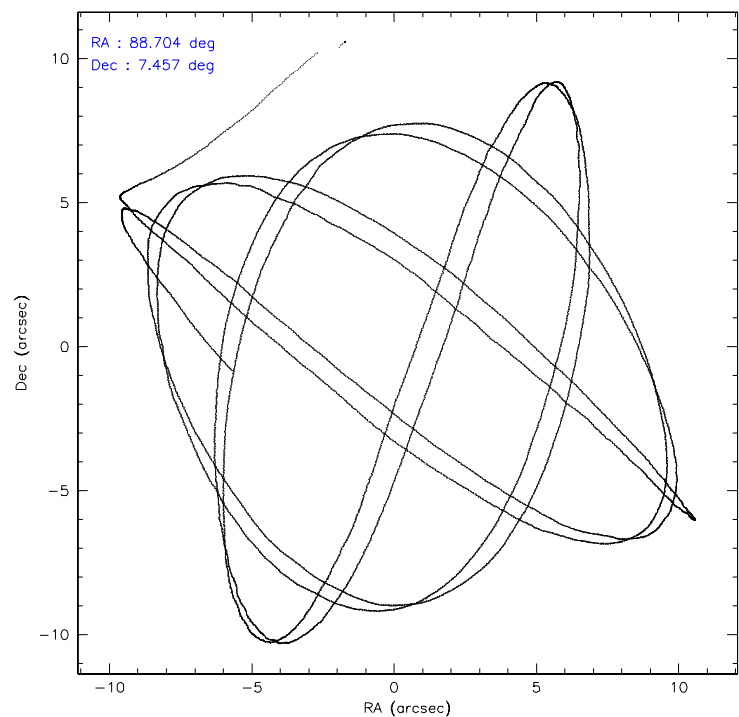
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30647	29597	32685	33043	33660	43018
rejected events	26794	25554	28953	29317	29818	24912
rejected %	87%	86%	88%	88%	88%	57%

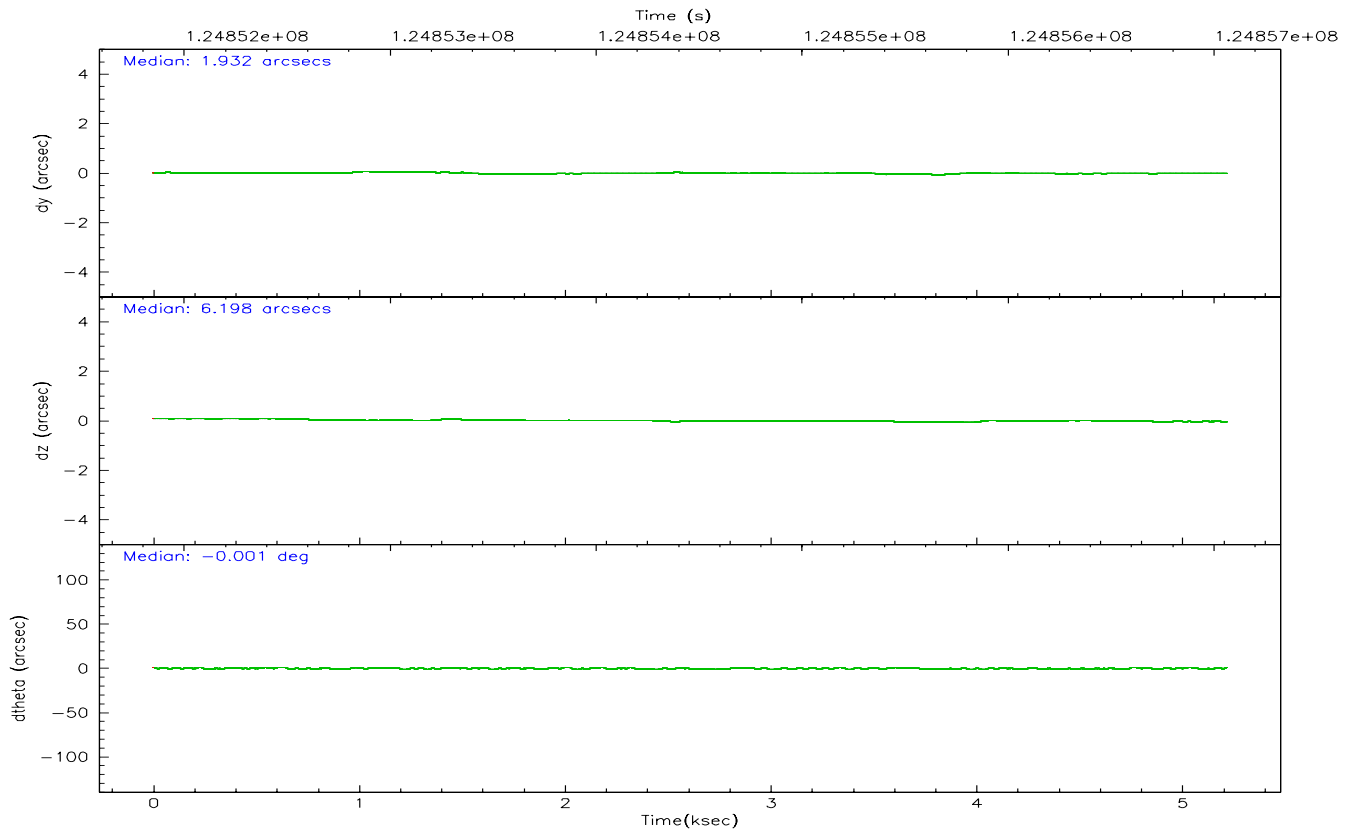
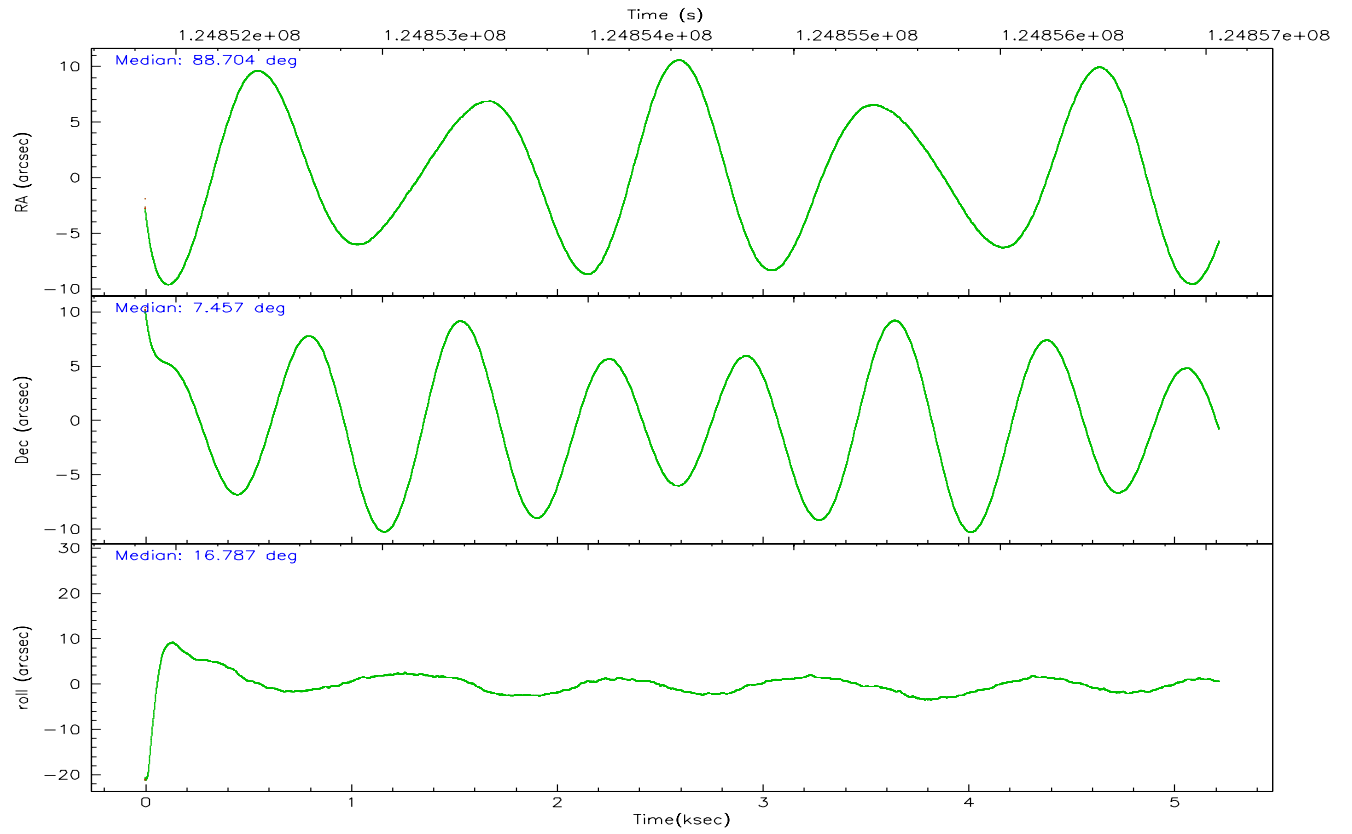
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1583	1627	1567	1521	1508	1572
	5%	5%	4%	4%	4%	3%
grade 1 events	20	14	16	18	18	35
	0%	0%	0%	0%	0%	0%
grade 2 events	871	795	769	777	771	3627
	2%	2%	2%	2%	2%	8%
grade 3 events	386	423	364	381	403	1655
	1%	1%	1%	1%	1%	3%
grade 4 events	332	391	372	363	384	1621
	1%	1%	1%	1%	1%	3%
grade 5 events	1246	1309	1116	1316	1391	4234
	4%	4%	3%	3%	4%	9%
grade 6 events	683	810	661	690	780	9642
	2%	2%	2%	2%	2%	22%
grade 7 events	25526	24228	27820	27977	28405	20632
	83%	81%	85%	84%	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	88.684665	88.70344502456668	Subarray requested	NONE	NONE
Pointing Dec	7.437004	7.457123608627301	Alternating exposures requested	N	N
Pointing Roll	16.588287	16.79447528668121	Primary exposure time	0.000000	3.2
Window start time	123552064.184000	123552064.184000			
Window stop time	128822464.184000	128822464.184000			
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	124852064.184000	124851074.50653			
Observation start date	2001-12-16T01:06:40	2001-12-16T00:51:14			
Observation end time	124857064.184000	124857972.7568			
Observation end date	2001-12-16T02:30:00	2001-12-16T02:46:12			
Read mode	TIMED	TIMED			

2.3 Aspect





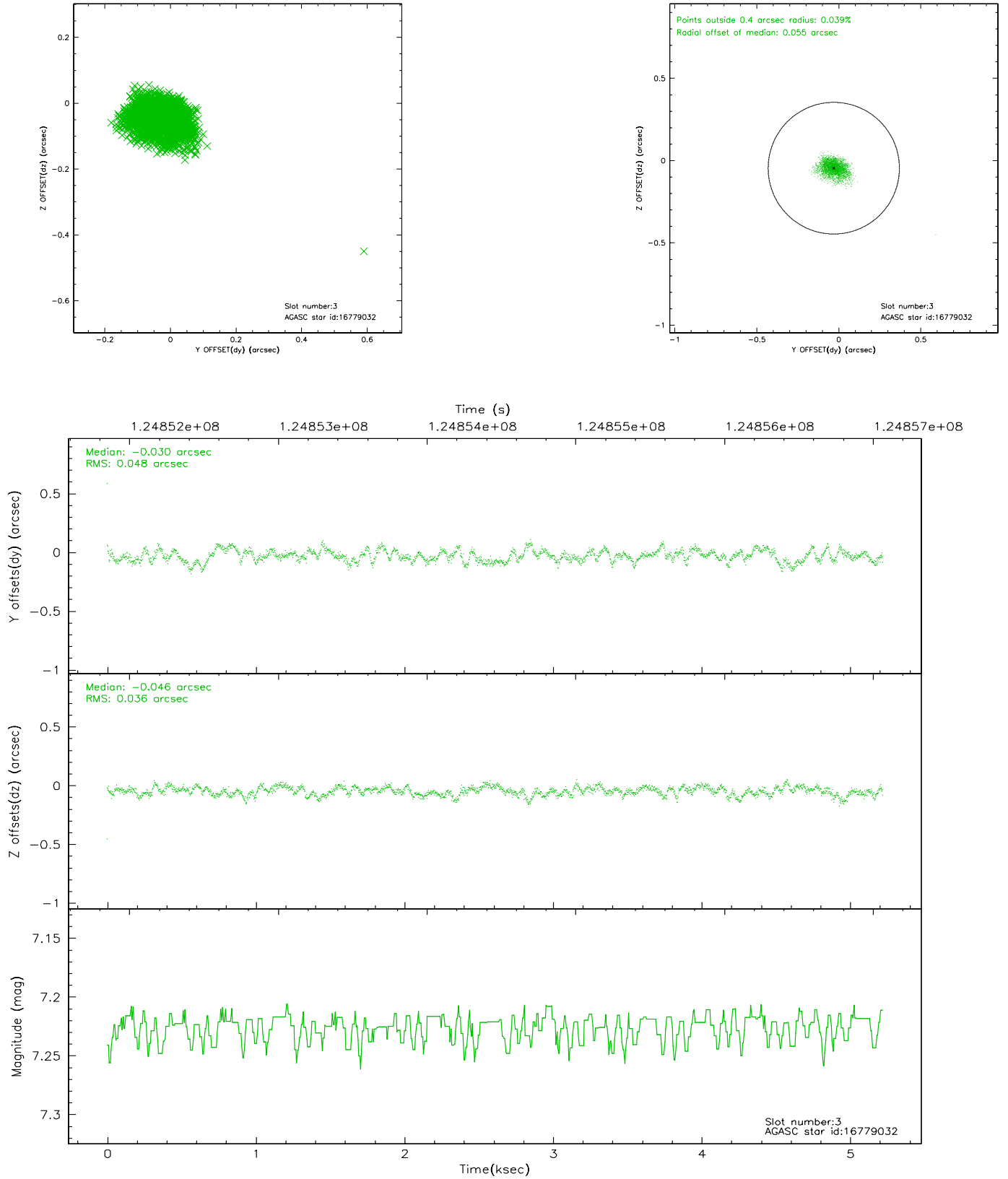
### Slot Statistics

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	1274	-0.030	0.032	0.006	0.010	0.000000	0.000000	937.85	-829.57
1	FID	ACIS-I-5	7.24	1274	-0.019	0.031	0.006	0.009	0.000000	0.000000	-1809.57	1067.40
2	FID	ACIS-I-6	7.27	1274	-0.043	0.008	0.006	0.011	0.000000	0.000000	402.17	1713.15
3	GUIDE	16779032	7.22	2547	-0.030	-0.046	0.063	0.102	88.070651	7.329382	-2211.41	255.68
4	GUIDE	93727304	8.28	2547	0.021	-0.014	0.058	0.092	88.040179	7.731431	-1901.48	1673.72
5	GUIDE	16913360	8.35	2547	-0.075	0.050	0.049	0.084	89.178373	7.247125	1494.19	-1156.62
6	GUIDE	16918912	8.67	2546	-0.003	0.042	0.077	0.122	89.257075	6.922287	1432.81	-2358.87
7	GUIDE	93855168	9.05	2544	0.088	-0.029	0.072	0.116	89.021483	7.846508	1572.68	1069.69

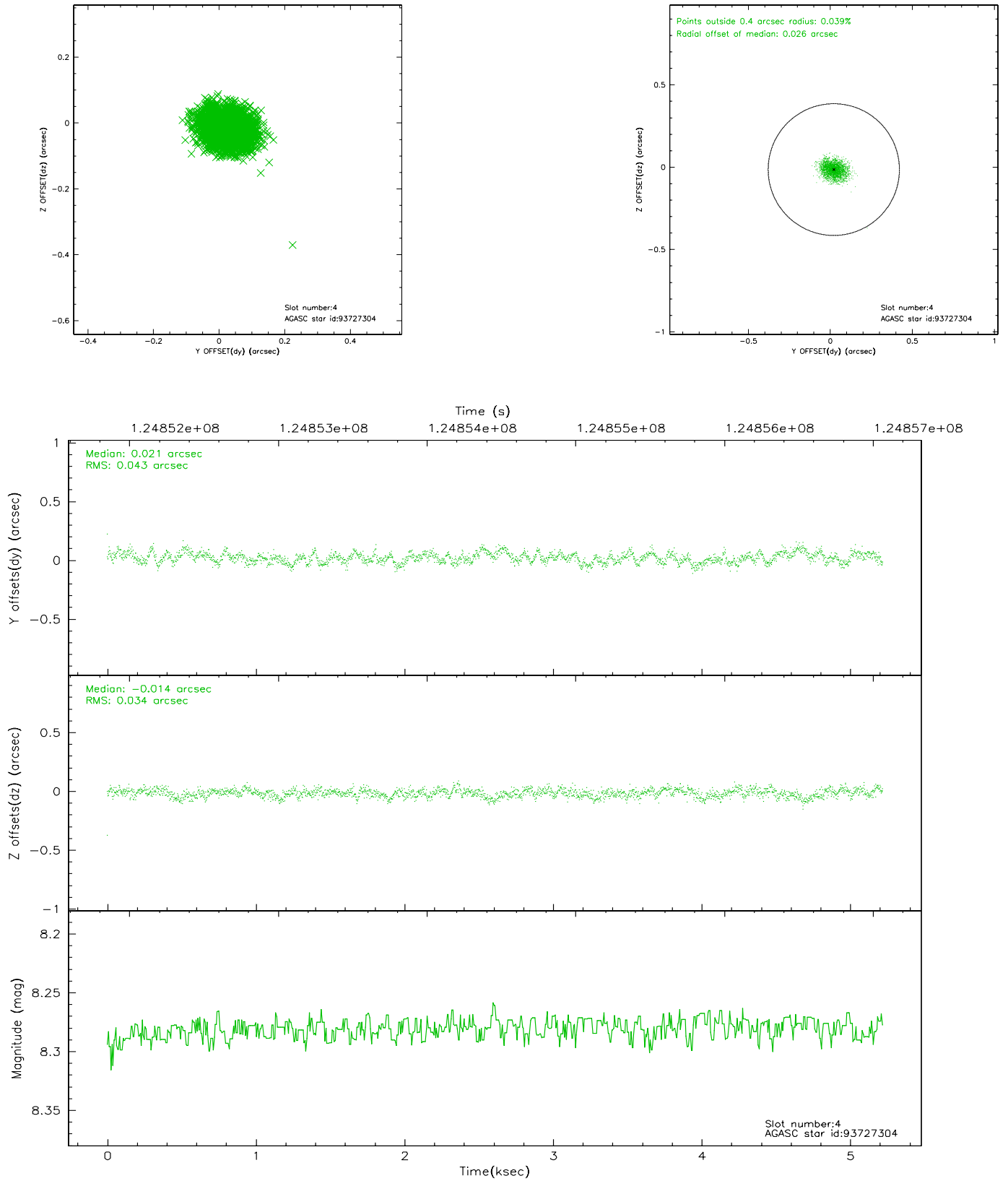


## 2.4 Star Slots

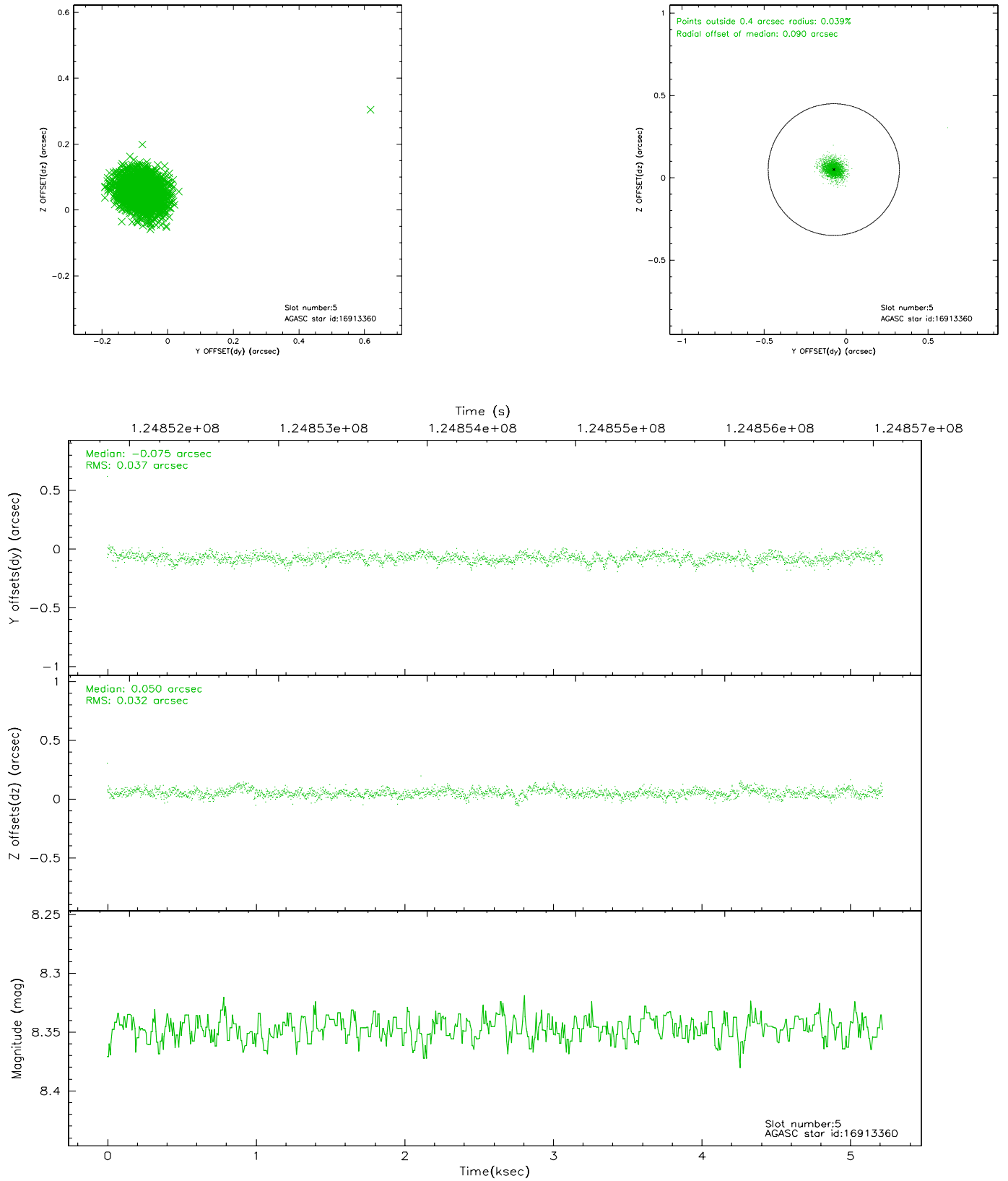
### 2.4.1 Slot 3



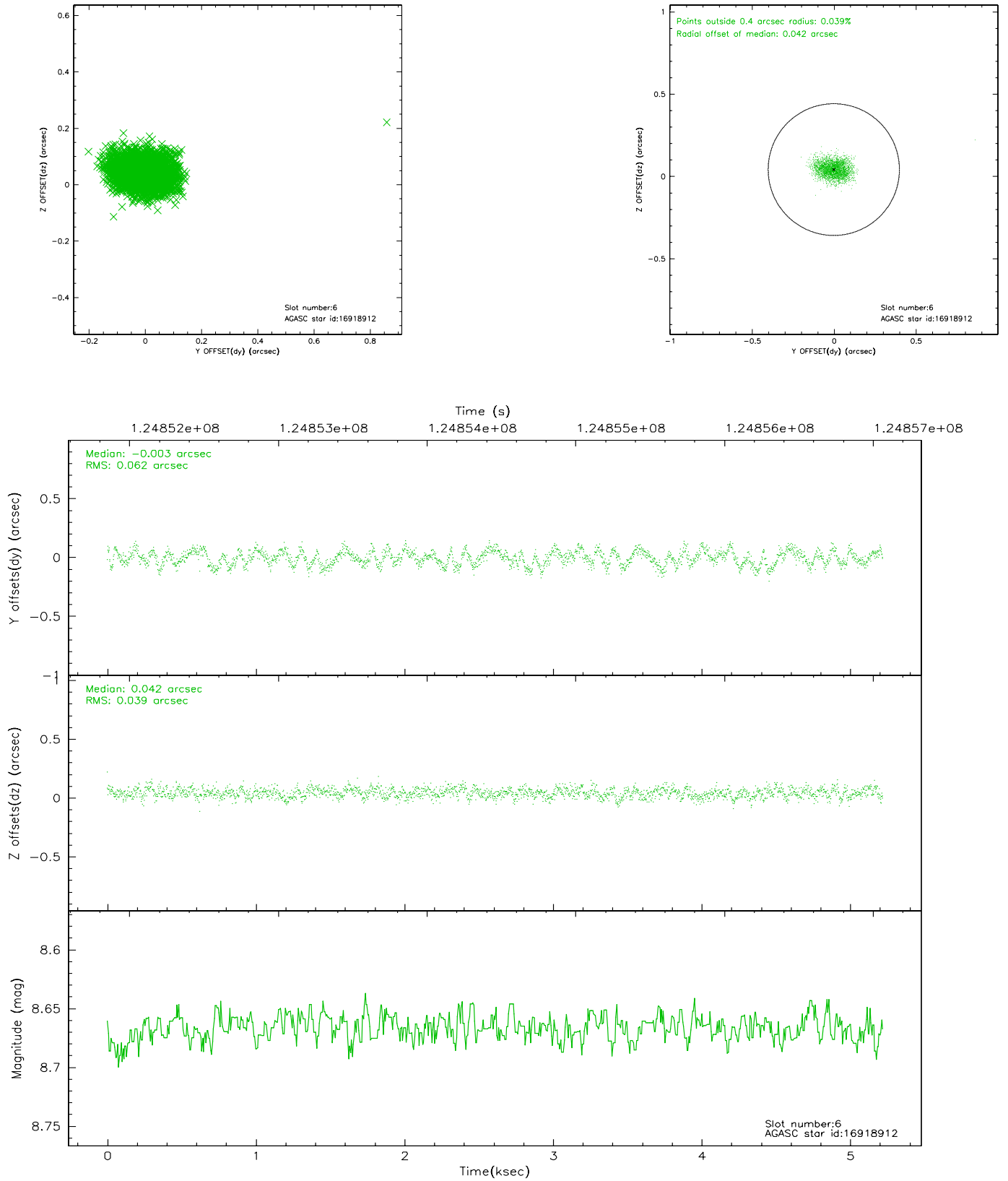
## 2.4.2 Slot 4



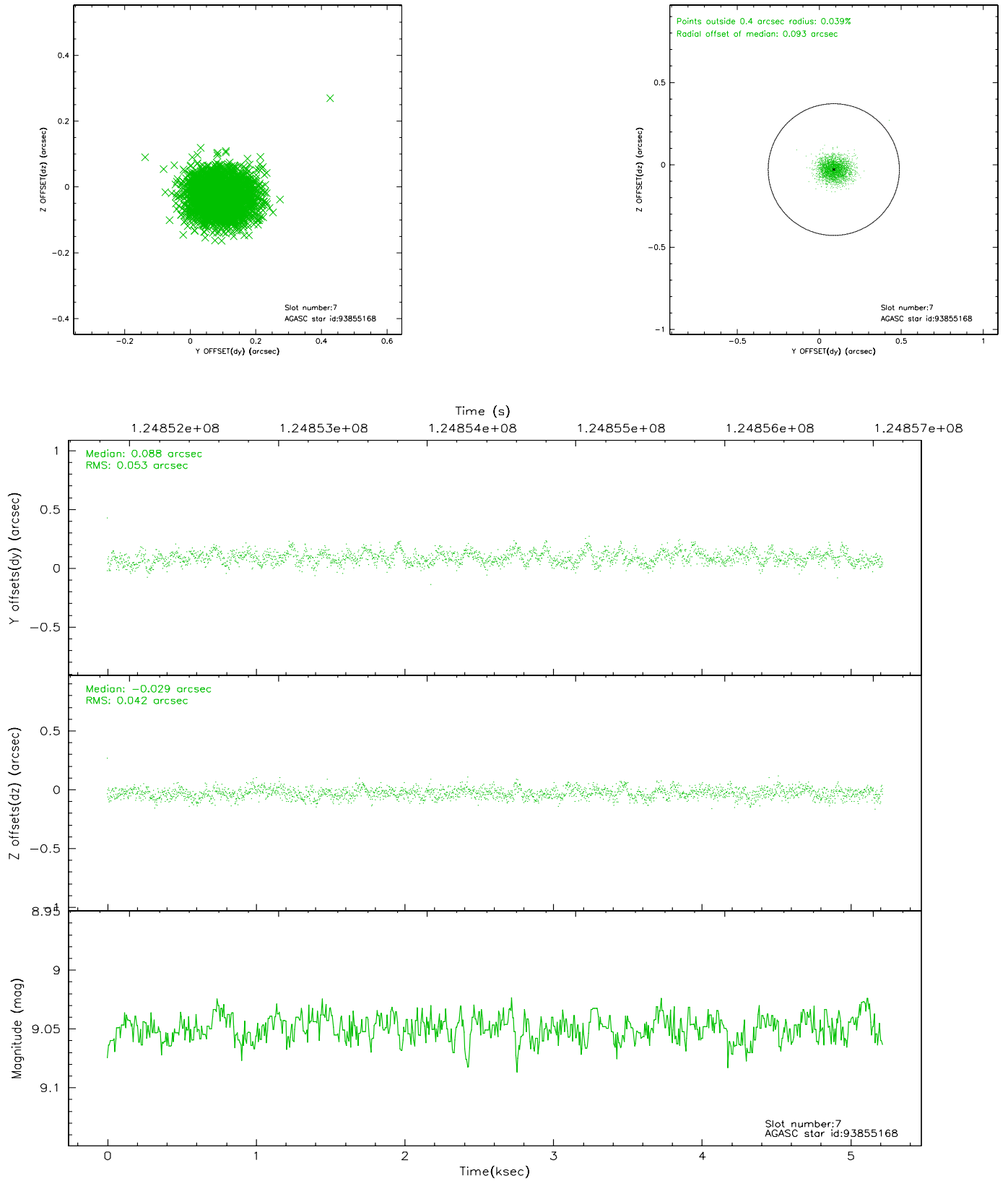
### 2.4.3 Slot 5



## 2.4.4 Slot 6

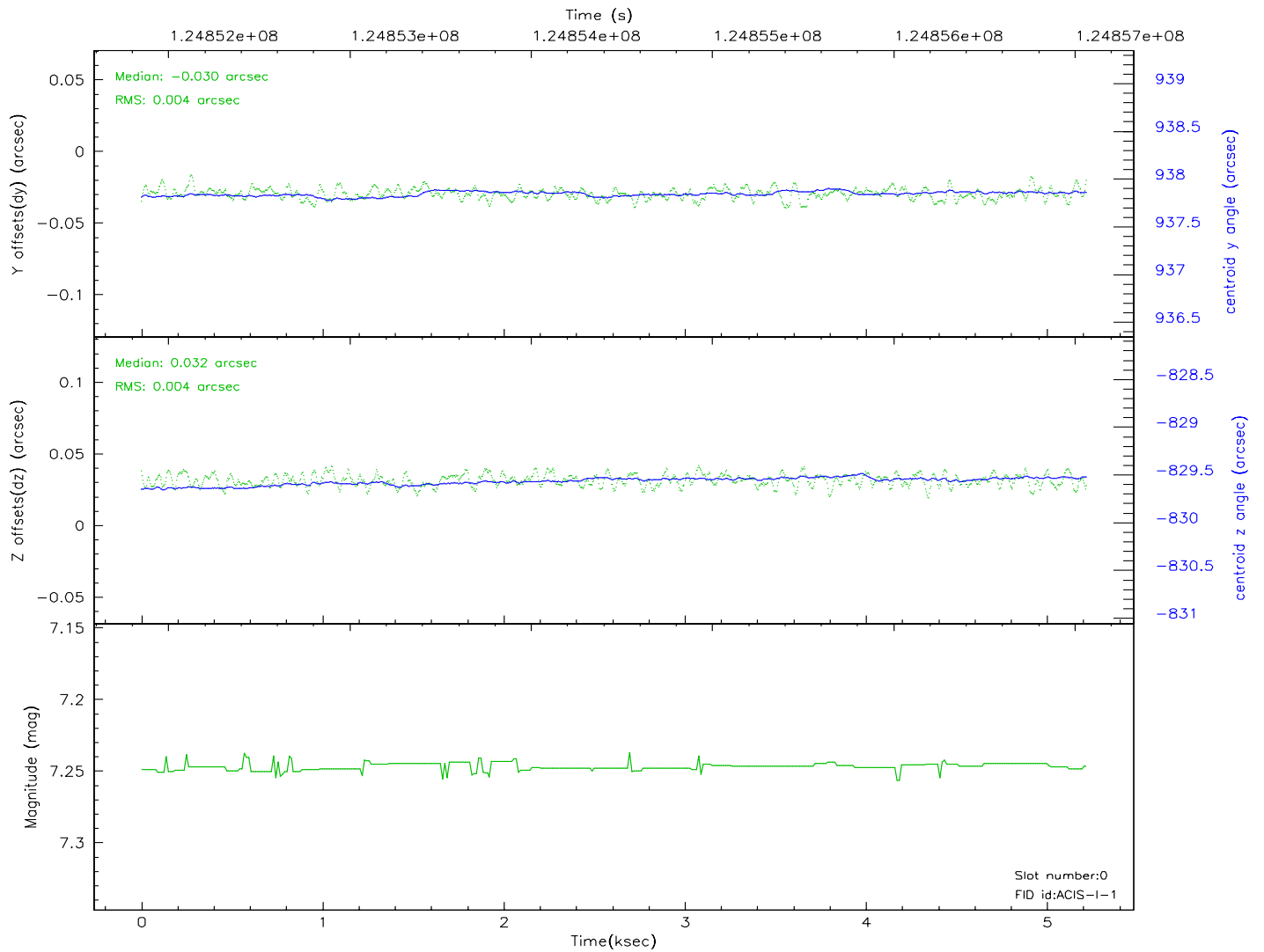
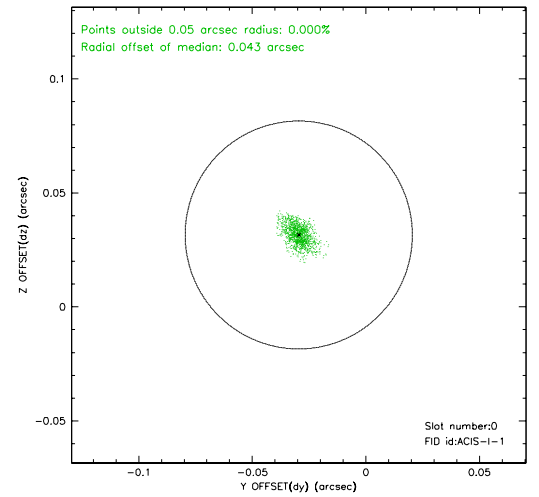
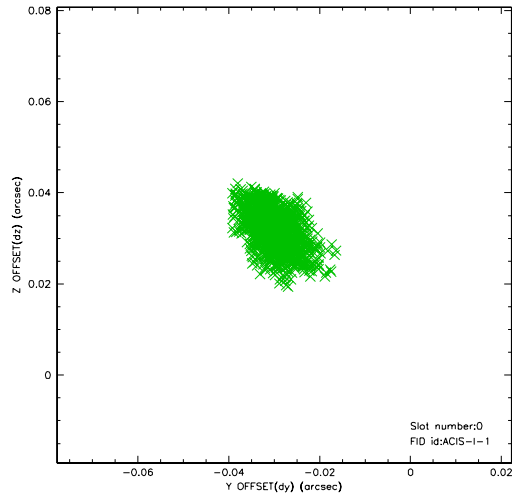


## 2.4.5 Slot 7

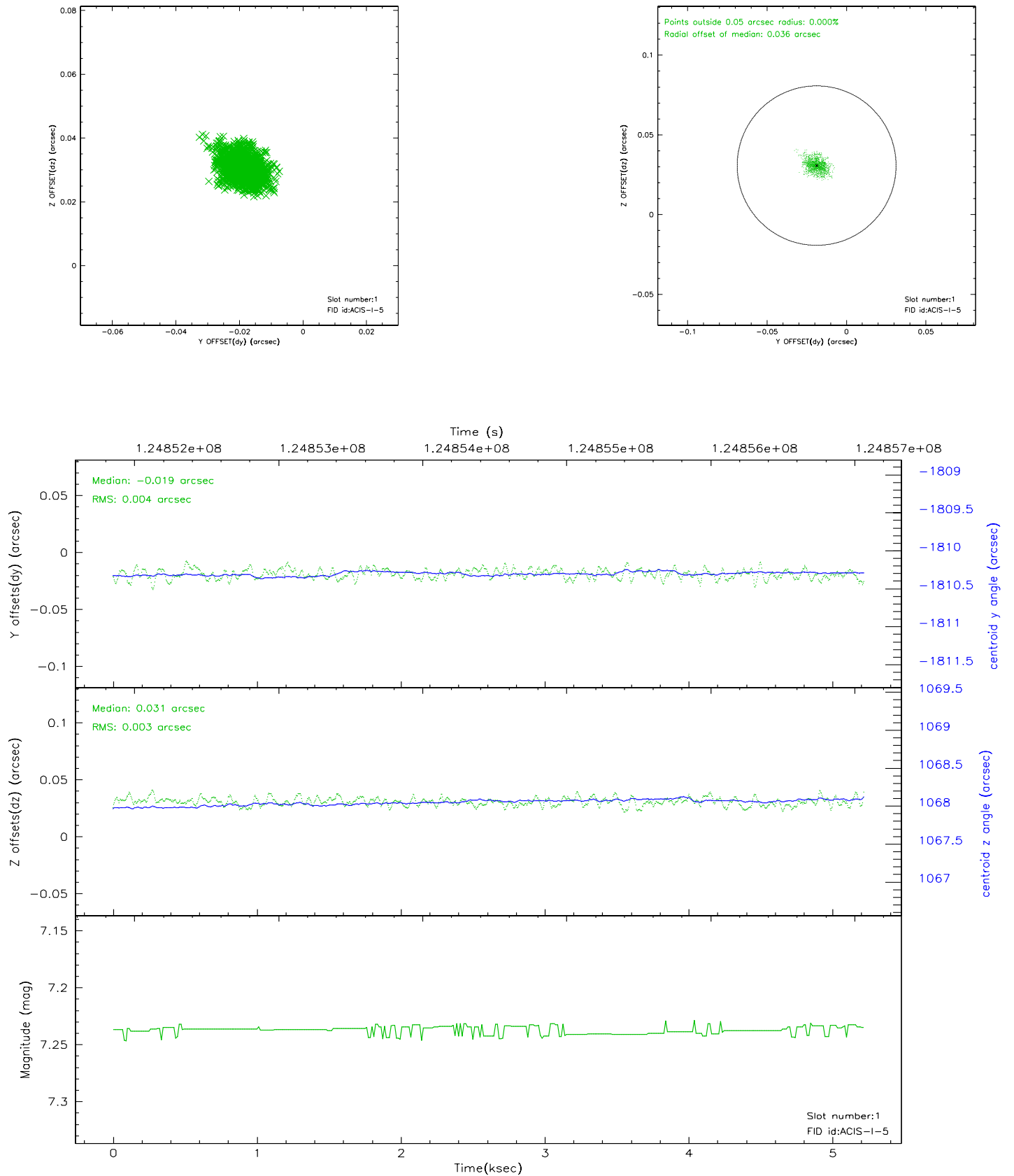


## 2.5 FID Slots

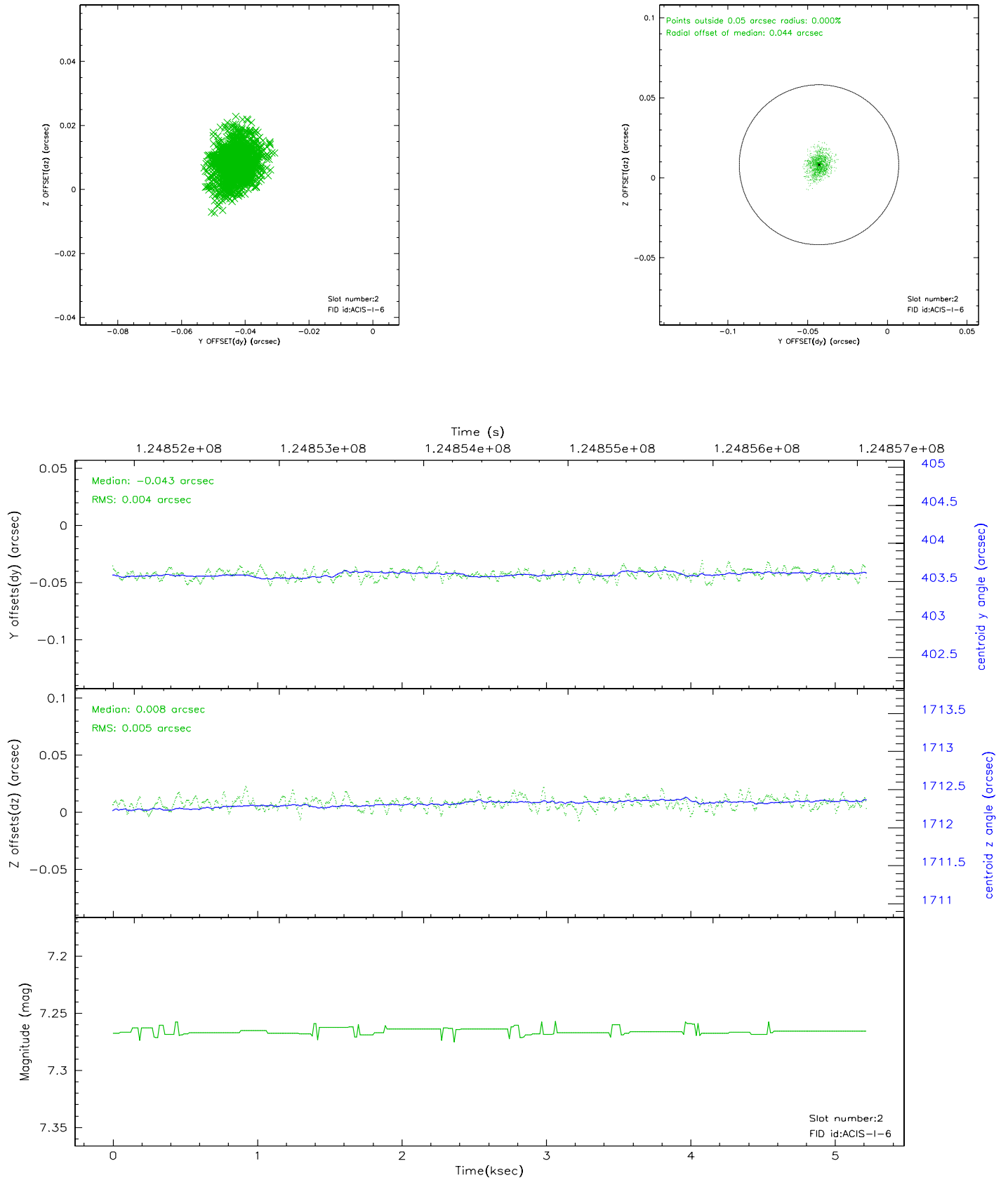
### 2.5.1 Slot 0



## 2.5.2 Slot 1

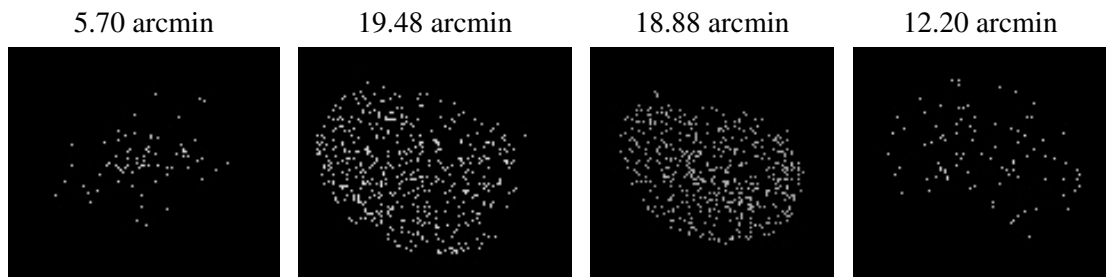


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.96

### A.2 Comments