

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3703 - L2 Version 001  
Chandra X-Ray Center

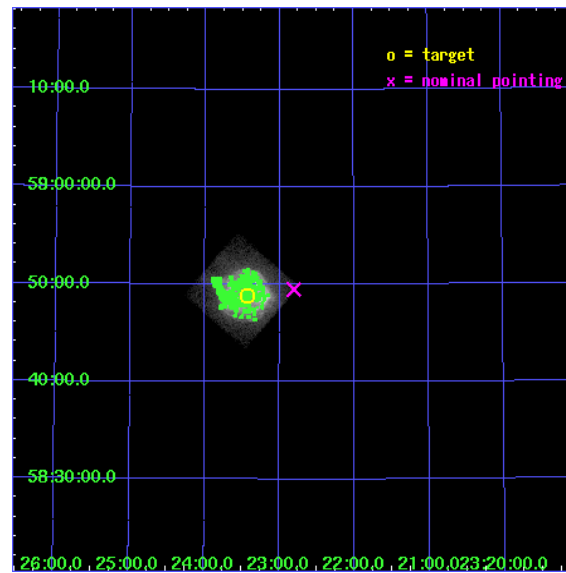
L2 Processing Date : Jun 29 2006

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# 1 Front

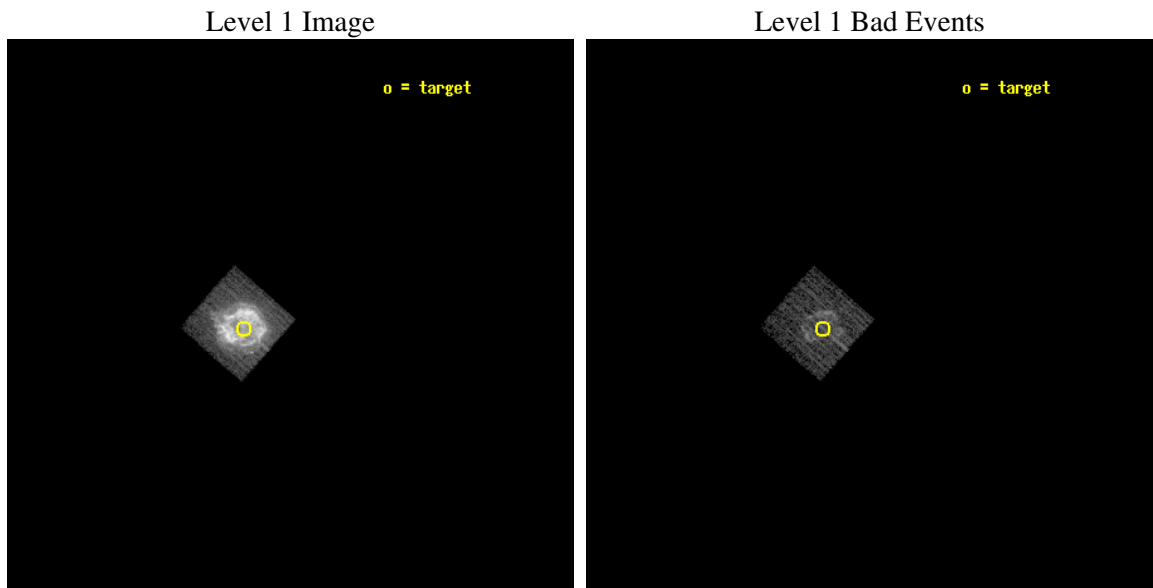
seq_num	590315
obs_id	3703
title	AO4B OBSERVATIONS OF THE STANDARD CANDLES CAS A AND G21.5-09
observer	Dr. CXC Calibration
object	CAS A[I3,-120,-3.0,3.5,0]
dtcycle	0
cycle	P
ra_targ	350.8575
dec_targ	58.814833
ra_nom	350.70178808395
dec_nom	58.82480416218
roll_nom	221.03185567971
revision	2
ontime	1539.0456883013
livetime	1519.557365094
ontime0	2057.5999923348
ontime1	2057.5999923348
ontime2	2057.5999923348
ontime3	1539.0456883013
ontime6	2057.5999923348
ontime7	2057.5999923348
l2events	327490



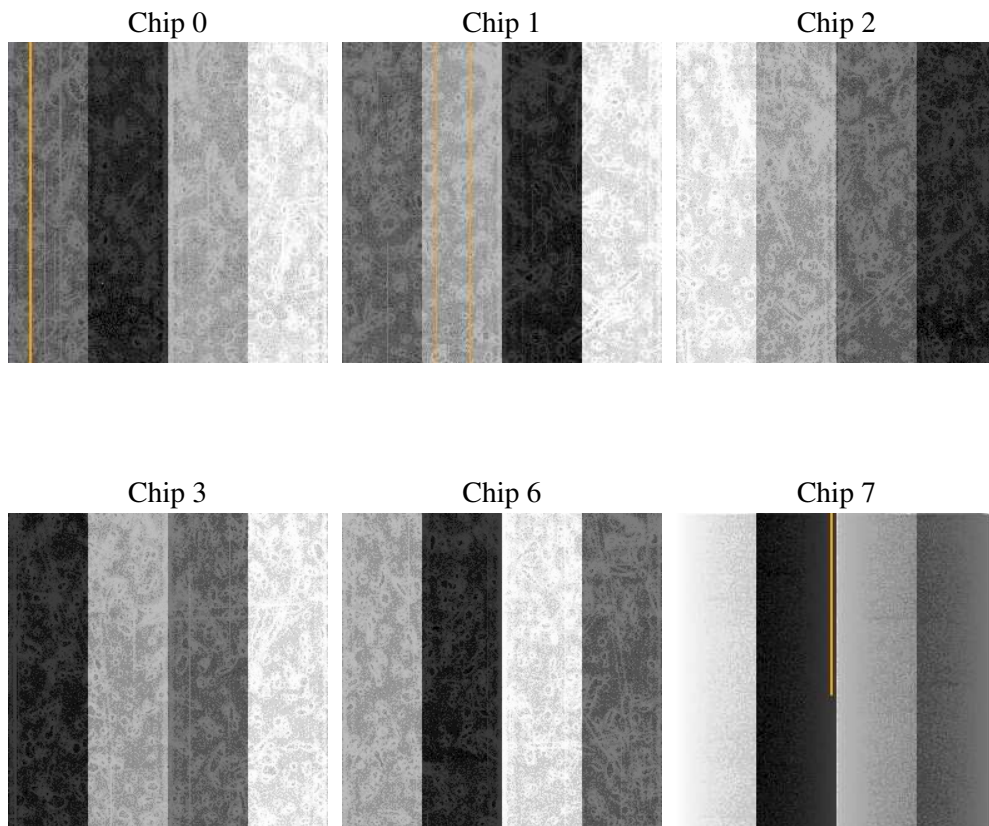
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldsver	3.2.2
date	2006-06-29T09:57:57
revision	2

sched_exp_time	2105.000000
ontime	1542.7222644389
ontime0	2064.5175586641
ontime1	2064.5175586641
ontime2	2064.5175586641
ontime3	1542.7222644389
ontime6	2064.5175586641
ontime7	2064.5175586641
l1events	391502

### 2.1.4 Events

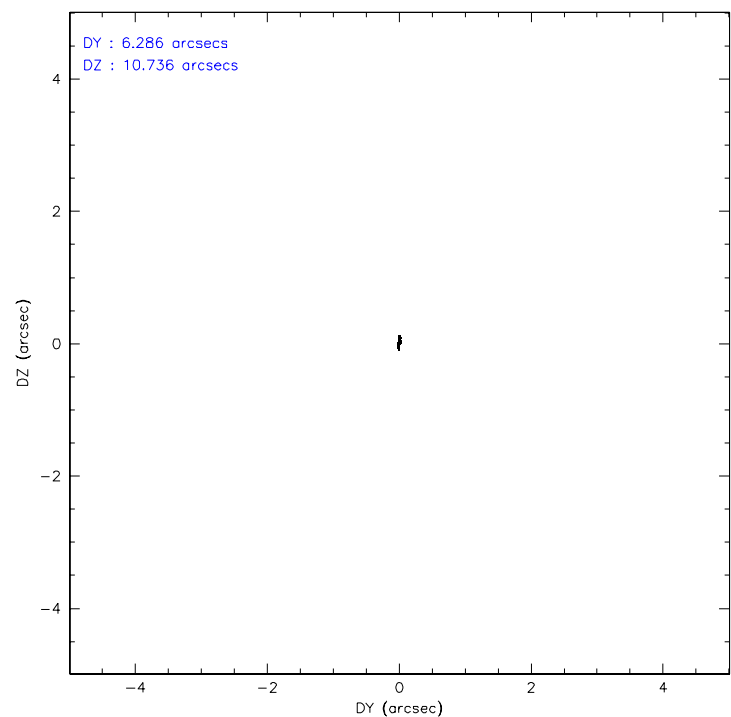
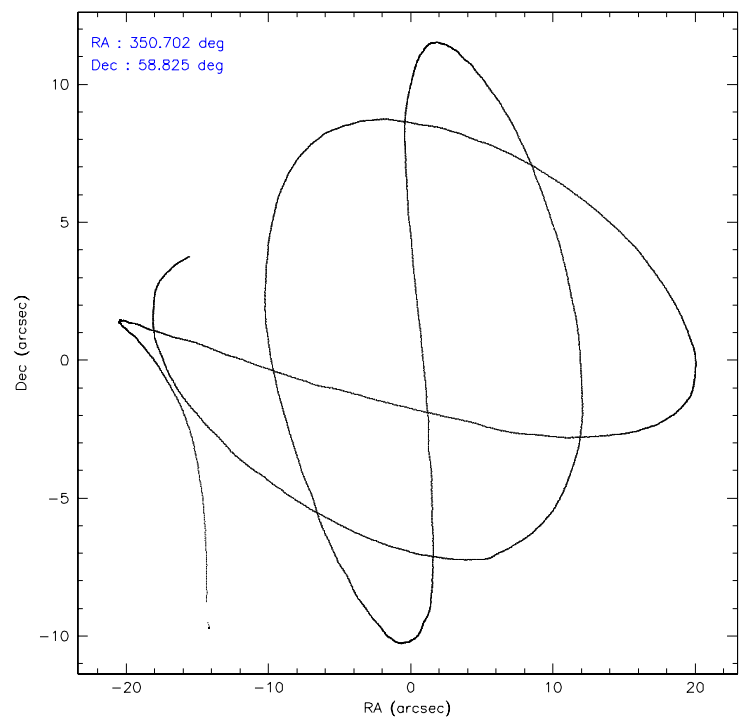
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	391502	0	0
rejected events	0	0	0	54432	0	0
rejected %	0%	0%	0%	13%	0%	0%

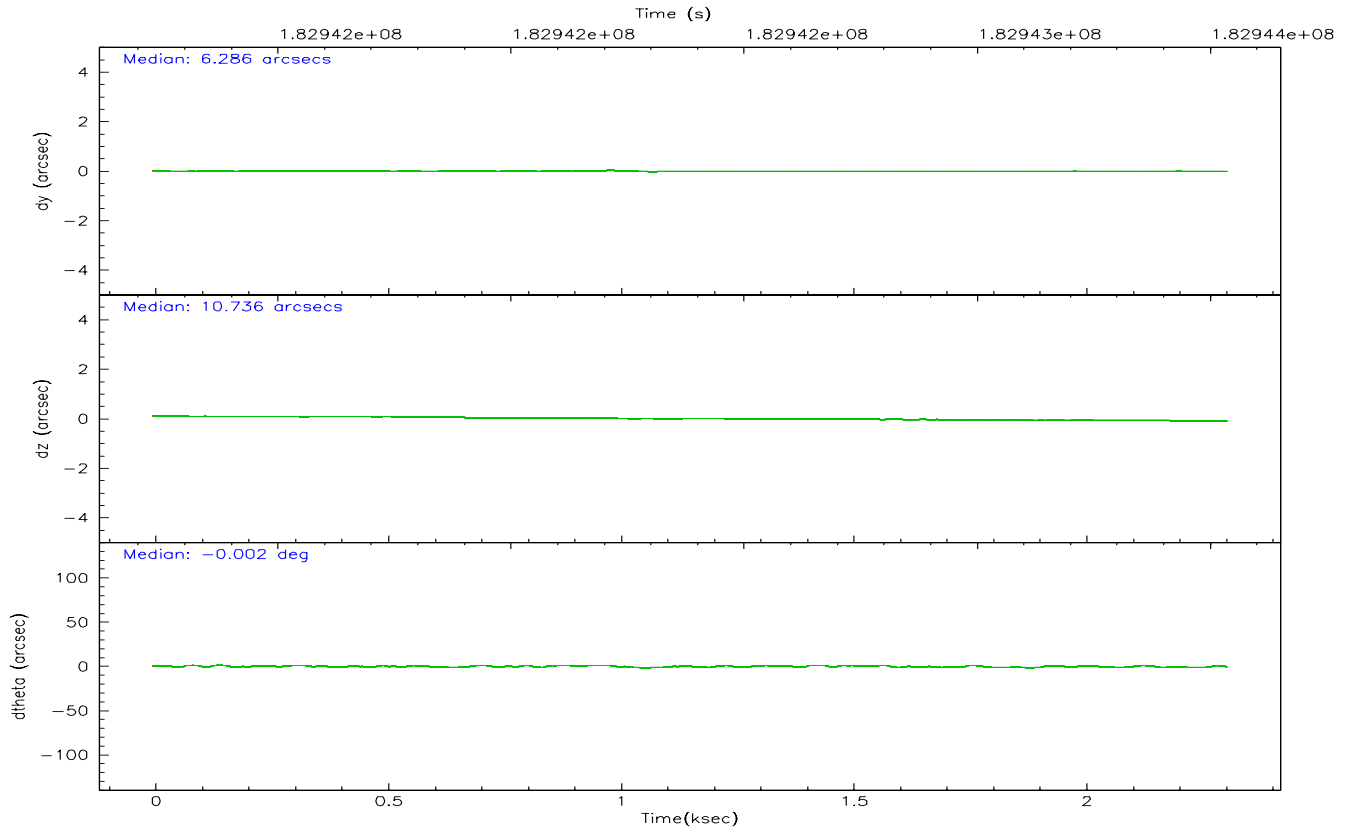
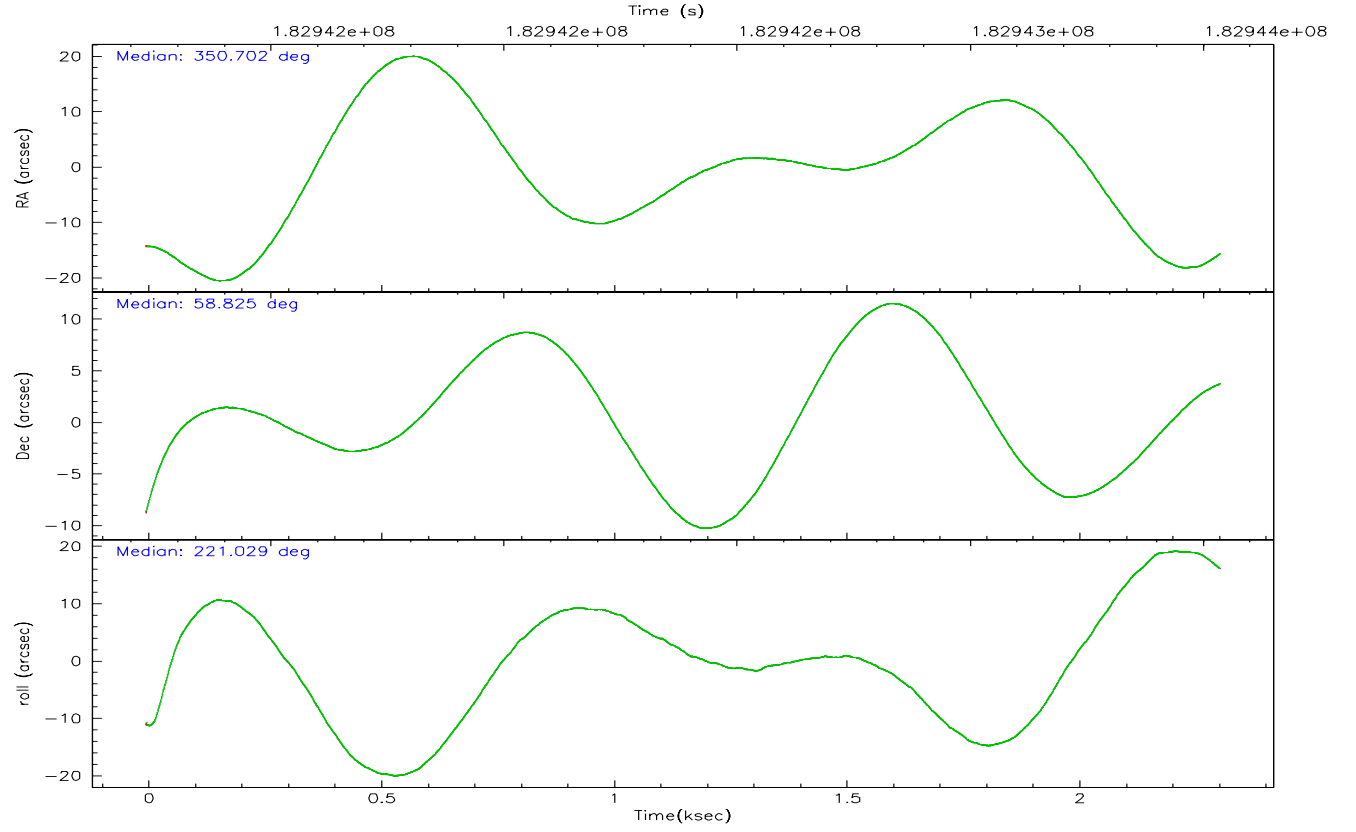
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	273834	0	0
	0%	0%	0%	69%	0%	0%
grade 1 events	0	0	0	4327	0	0
	0%	0%	0%	1%	0%	0%
grade 2 events	0	0	0	34652	0	0
	0%	0%	0%	8%	0%	0%
grade 3 events	0	0	0	10902	0	0
	0%	0%	0%	2%	0%	0%
grade 4 events	0	0	0	10927	0	0
	0%	0%	0%	2%	0%	0%
grade 5 events	0	0	0	3008	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	0	7439	0	0
	0%	0%	0%	1%	0%	0%
grade 7 events	0	0	0	46413	0	0
	0%	0%	0%	11%	0%	0%

## 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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	350.719285	350.7017880839486	Alternating exposures requested	N	N
Pointing Dec	58.850866	58.82480416218031	Primary exposure time	0.000000	3.2
Pointing Roll	220.808283	221.0318556797063			
Window start time	181353664.184000	181353664.184000			
Window stop time	183859264.184000	183859264.184000			
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	182941429.184000	182940459.12234			
Observation start date	2003-10-19T09:02:45	2003-10-19T08:47:39			
Observation end time	182943534.184000	182943683.25998			
Observation end date	2003-10-19T09:37:50	2003-10-19T09:41:23			
Read mode	TIMED	TIMED			

2.3 Aspect





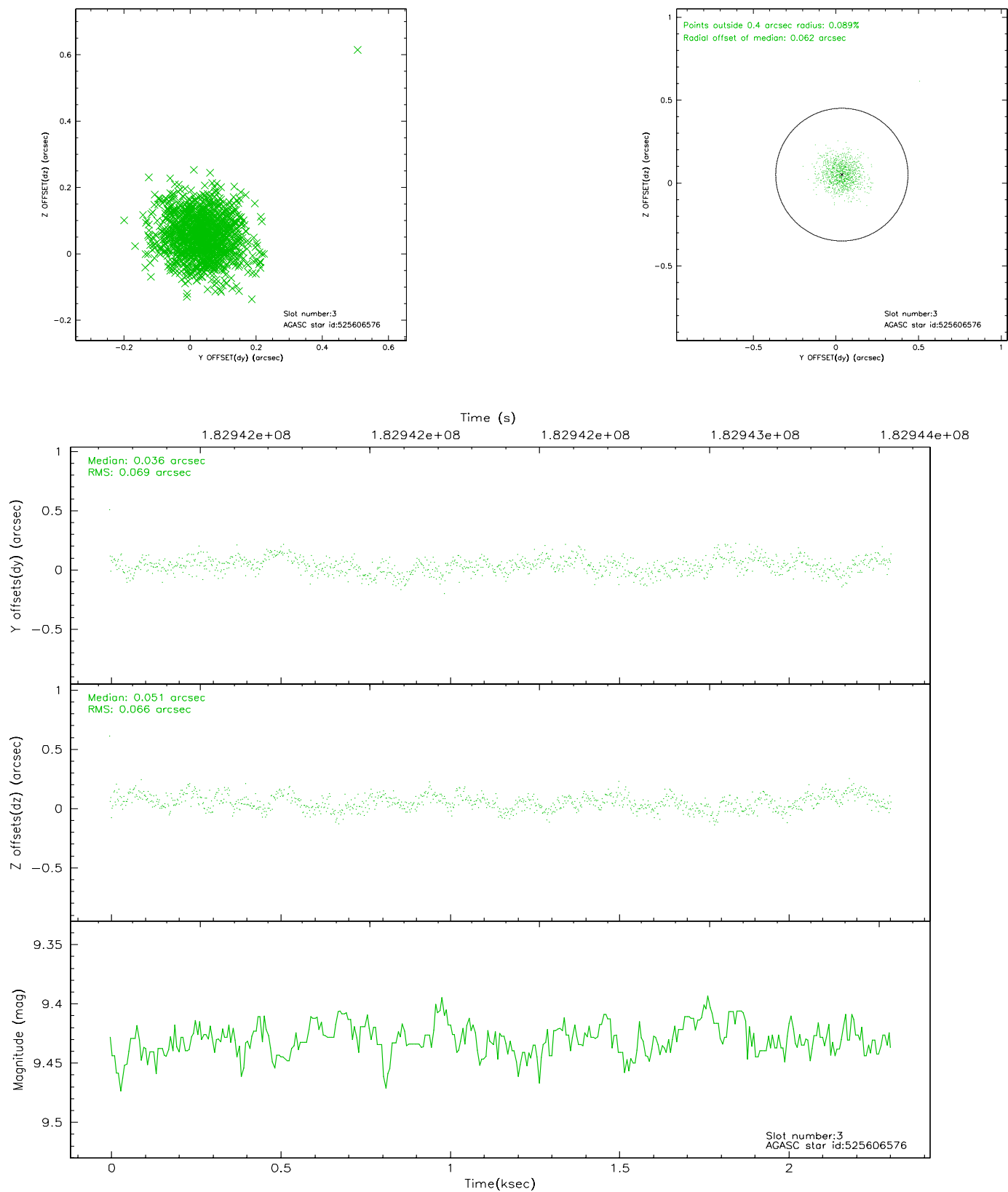
### Slot Statistics

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	564	-0.033	0.052	0.007	0.012	0.000000	0.000000	933.38	-834.19
1	FID	ACIS-I-2	7.14	563	-0.063	-0.040	0.007	0.012	0.000000	0.000000	-759.17	-842.12
2	FID	ACIS-I-6	7.25	562	0.004	0.056	0.007	0.011	0.000000	0.000000	397.79	1706.21
3	GUIDE	525606576	9.43	1121	0.036	0.051	0.101	0.165	349.543555	58.678895	2056.70	-983.07
4	GUIDE	525731480	9.51	1122	0.013	-0.001	0.098	0.158	351.647209	58.687294	-936.11	1570.79
5	GUIDE	525732232	9.12	1123	-0.005	-0.015	0.086	0.148	351.669550	58.757012	-1132.24	1408.26
6	GUIDE	525609504	9.08	1127	-0.173	-0.062	0.081	0.128	349.896632	58.356658	2330.54	325.86
7	GUIDE	525732528	9.36	1125	0.121	0.030	0.091	0.146	351.607241	59.298932	-2295.14	-161.81

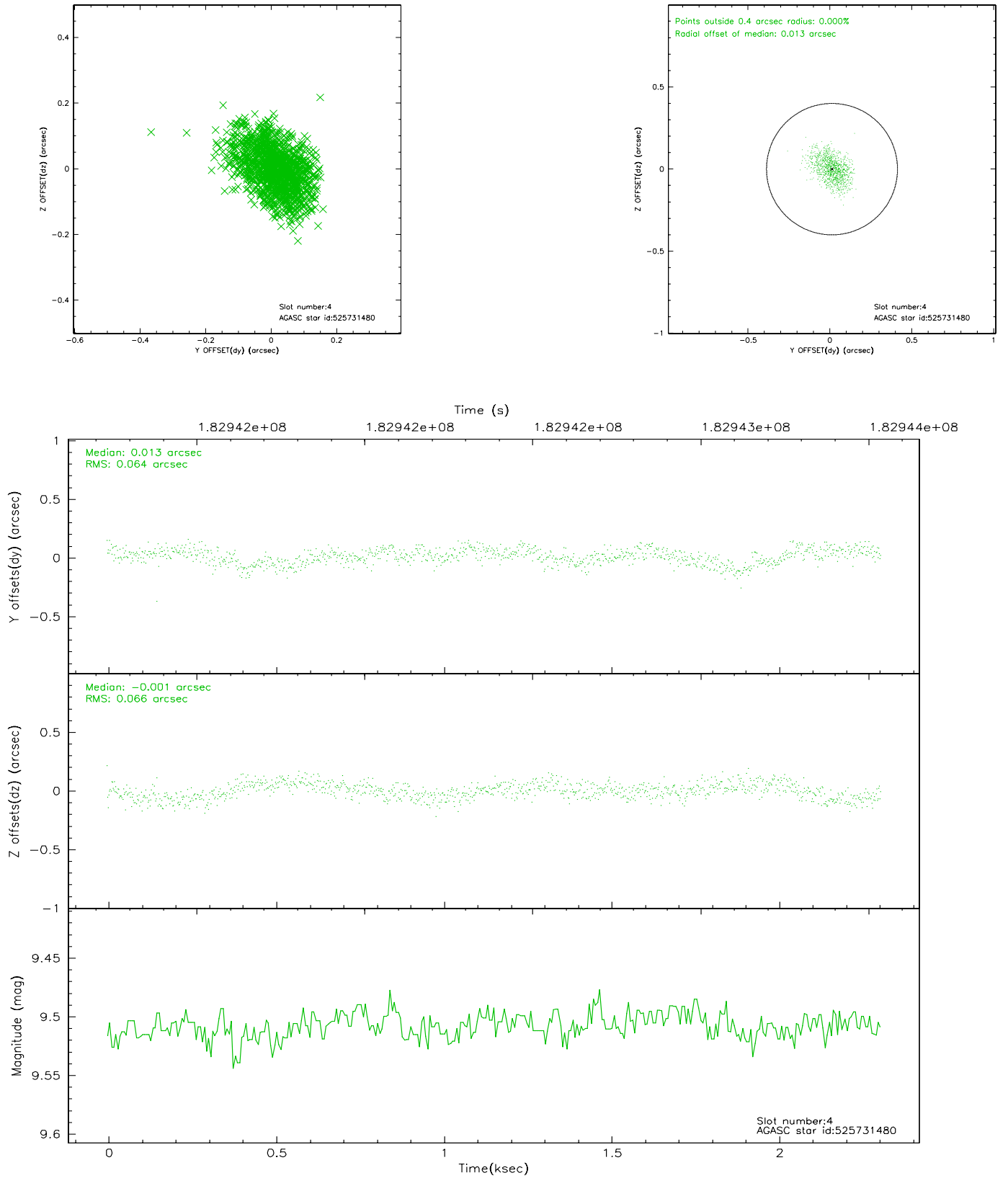


## 2.4 Star Slots

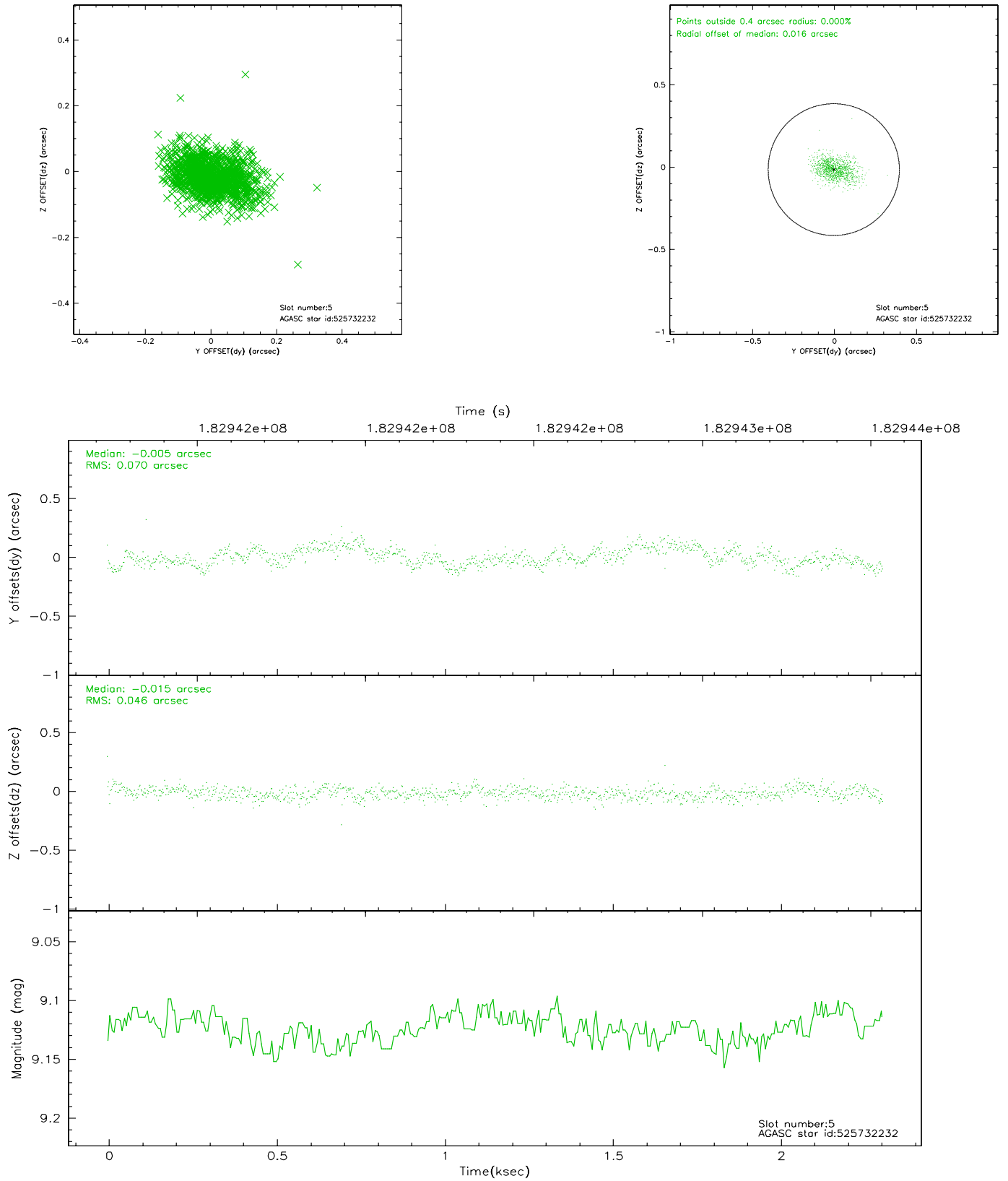
### 2.4.1 Slot 3



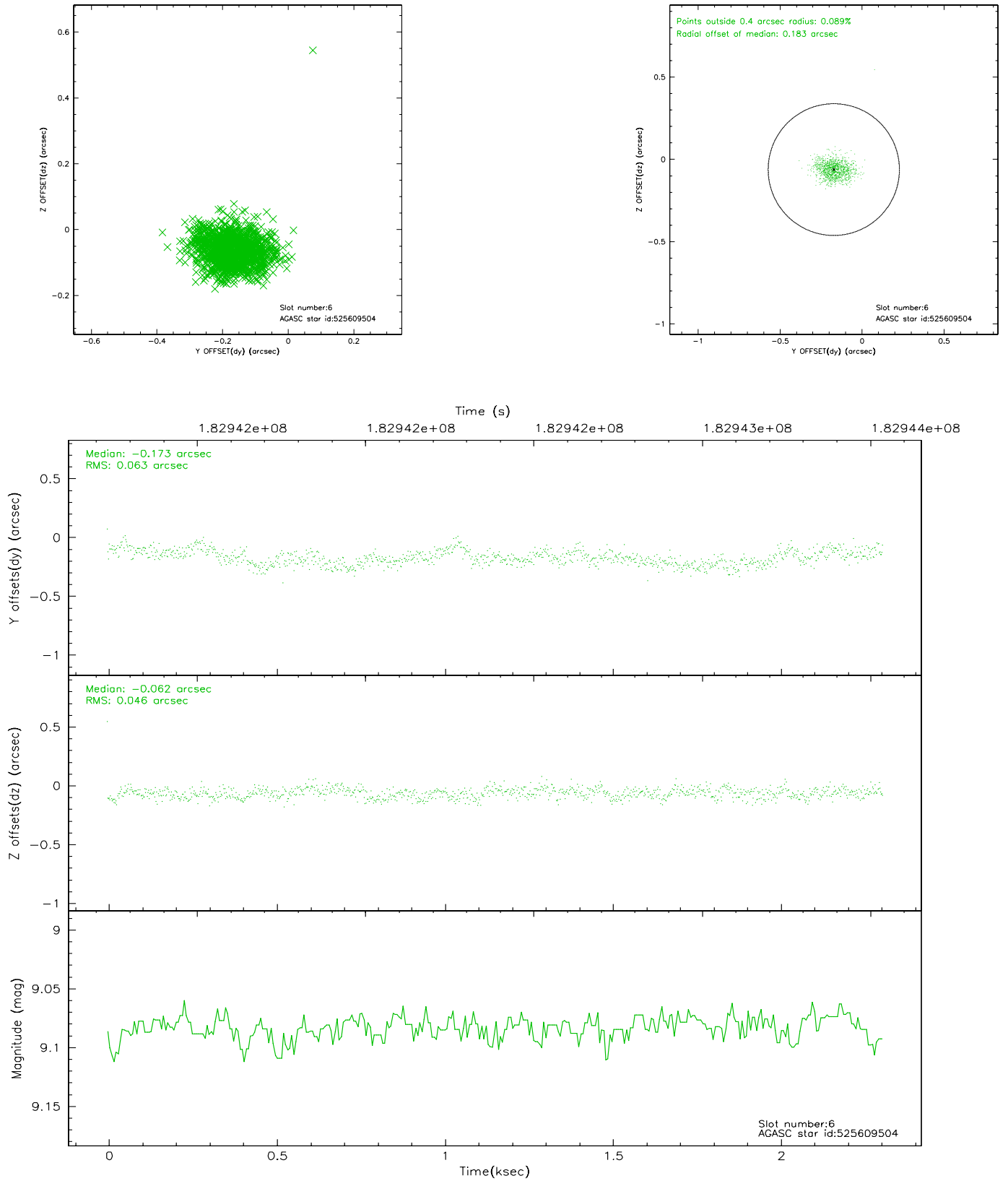
## 2.4.2 Slot 4



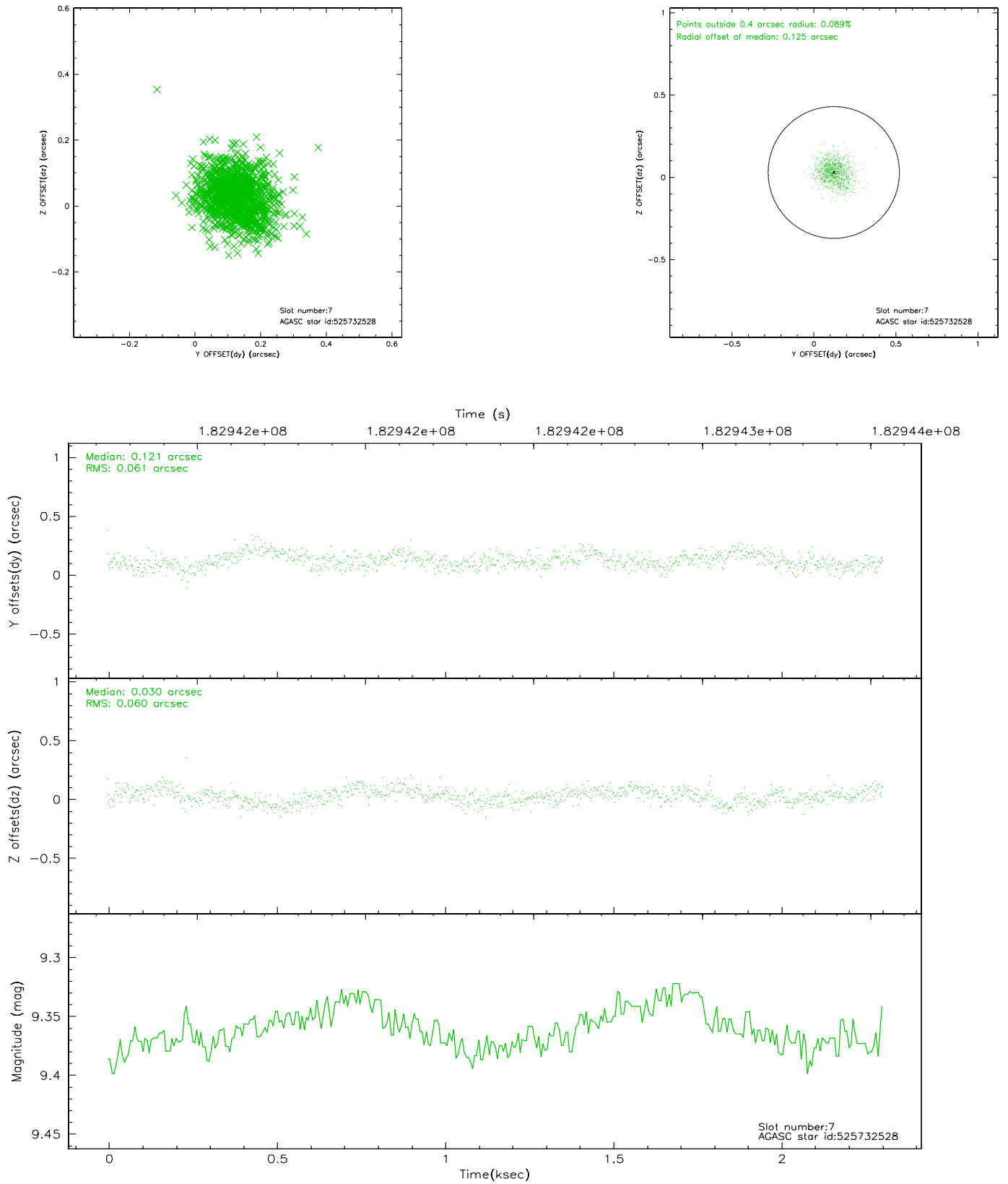
### 2.4.3 Slot 5



## 2.4.4 Slot 6

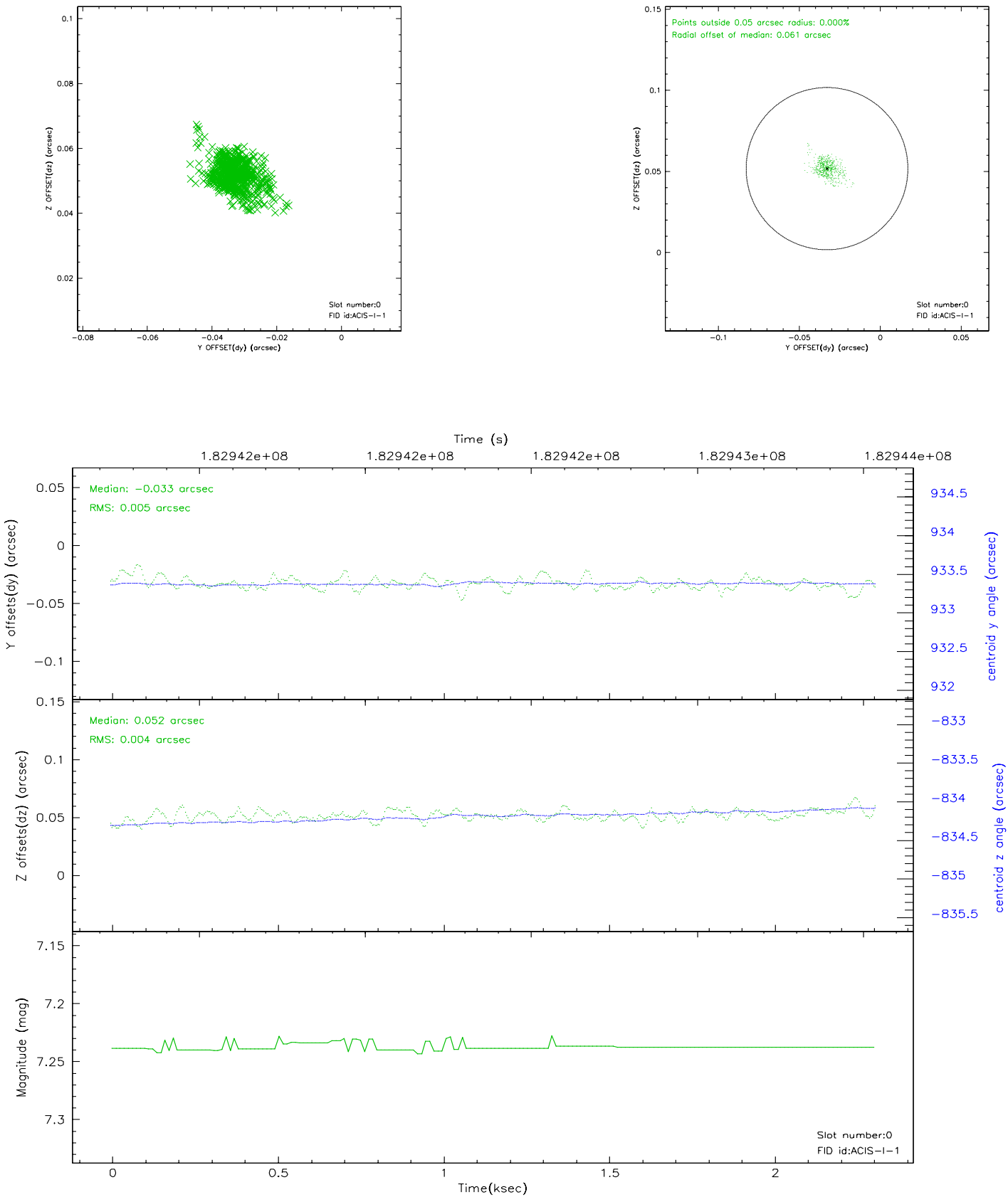


## 2.4.5 Slot 7

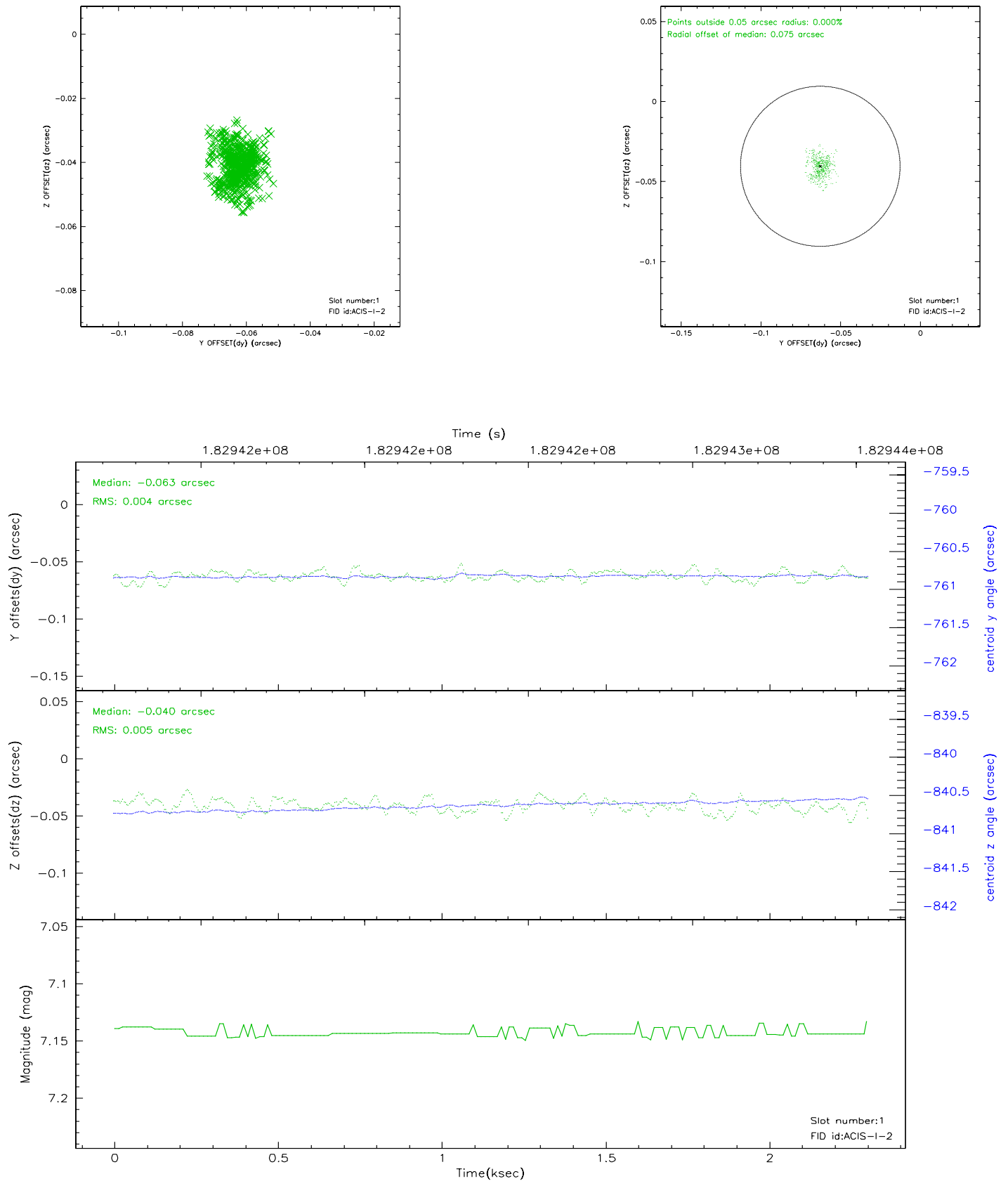


## 2.5 FID Slots

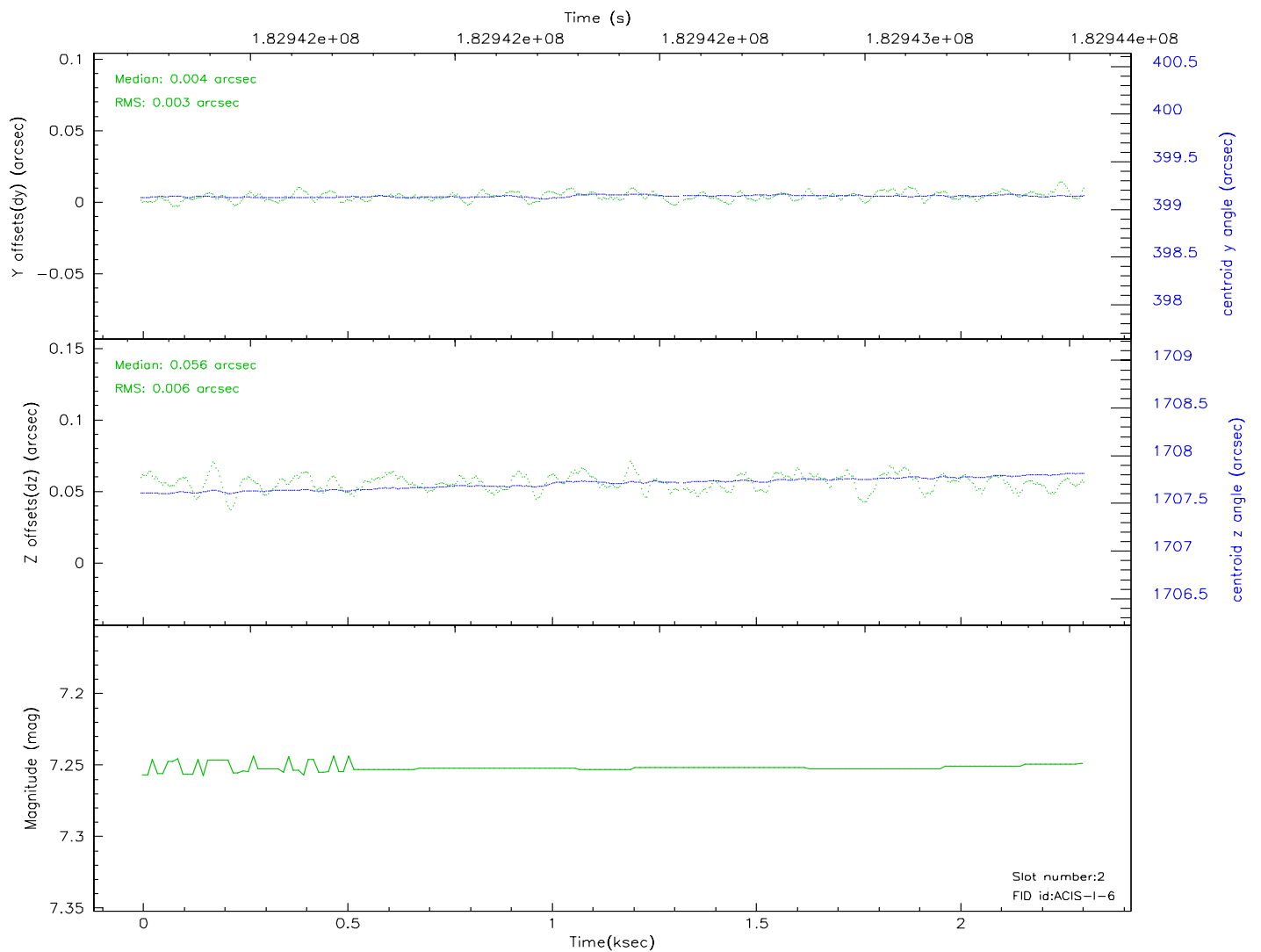
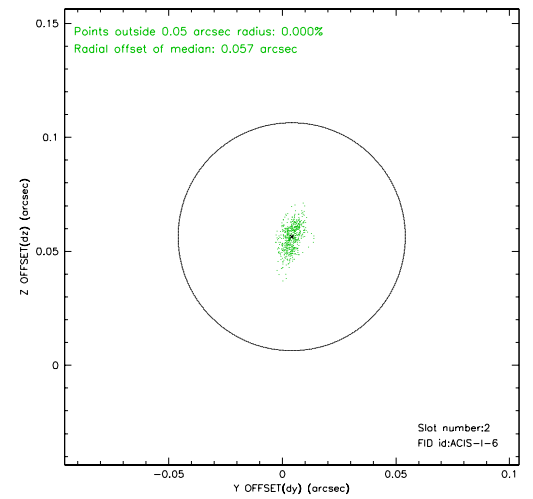
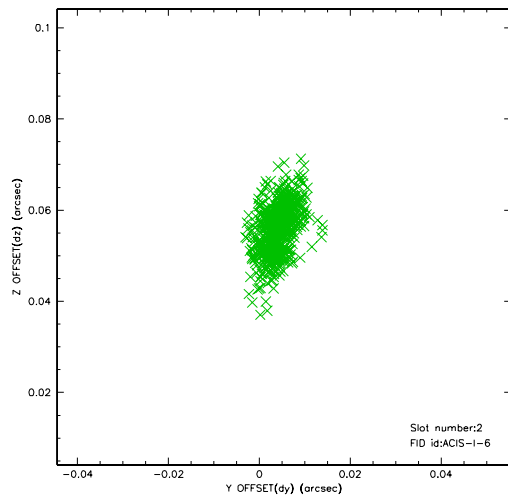
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2





### 3 Point Sources

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.539

### A.2 Comments

Window constraint satisfied.