

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 89 - L2 Version 5  
Chandra X-Ray Center

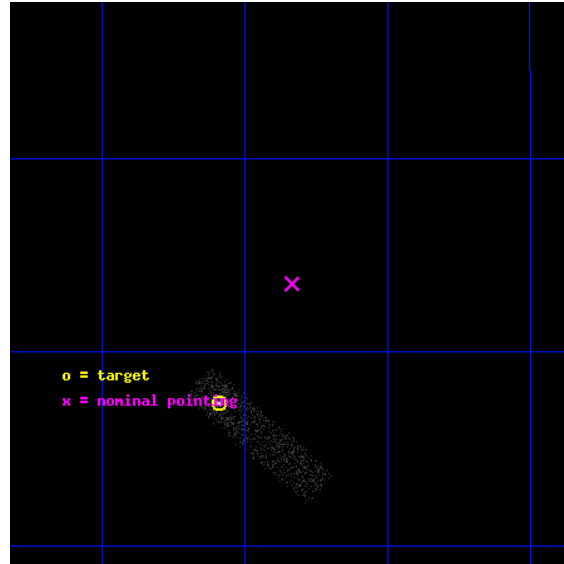
L2 Processing Date : Sep 4 2012

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# 1 Front

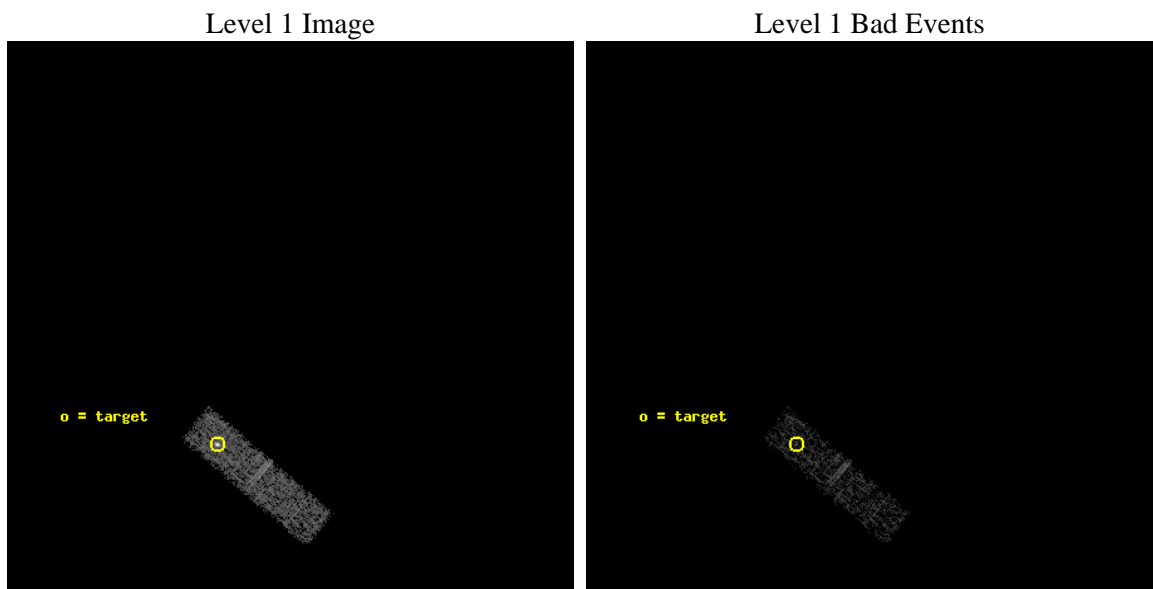
seq_num	300036	Sequence number
obs_id	89	Observation id
title	MULTIWAVELENGTH TOO OBSERVATIONS OF BRIGHT NOVAE IN OUTBURST	Propo
observer	Regents' Professor Sumner Starrfield	Principal investigator
object	V1494AQL	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	290.772	Observer's specified target RA [deg]
dec_targ	4.95585	Observer's specified target Dec [deg]
ra_nom	290.70866488521	Nominal RA [deg]
dec_nom	5.0586506891161	Nominal Dec [deg]
roll_nom	130.56150632268	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5186.3589406908	Sum of GTIs [s]
livetime	4933.2815948738	Livetime [s]
ontime3	5186.3589406908	Sum of GTIs [s]
l2events	5013	Number of level 2 events



## 2 OBI

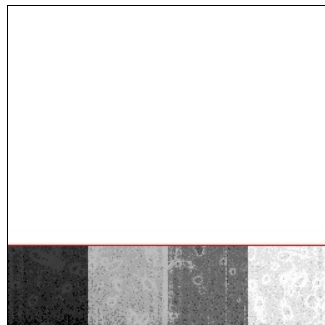
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5186.3589406908	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime3	5186.3589406908	Sum of GTIs [s]
date	2012-09-04T17:59:55	Date and time of file creation	l1events	17535	Number of level 1 events
revision	5	Processing version of data			

### 2.1.4 Events

	<b>ccd 3</b>
level 1 events	17535
rejected events	12279
rejected %	70%

	<b>ccd 3</b>
grade 0 events	3901
	22%
grade 1 events	33
	0%
grade 2 events	636
	3%
grade 3 events	321
	1%
grade 4 events	350
	1%
grade 5 events	273
	1%
grade 6 events	385
	2%
grade 7 events	11636
	66%

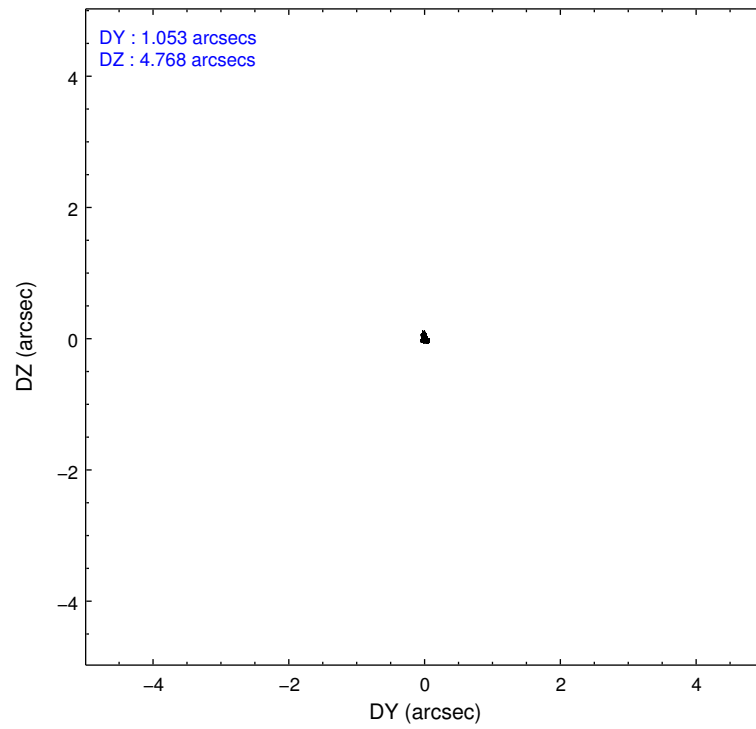
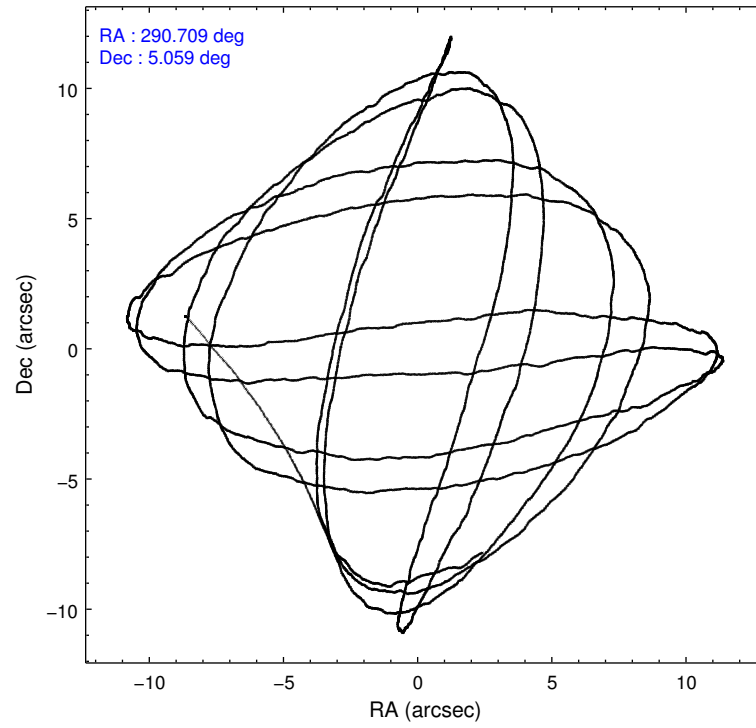


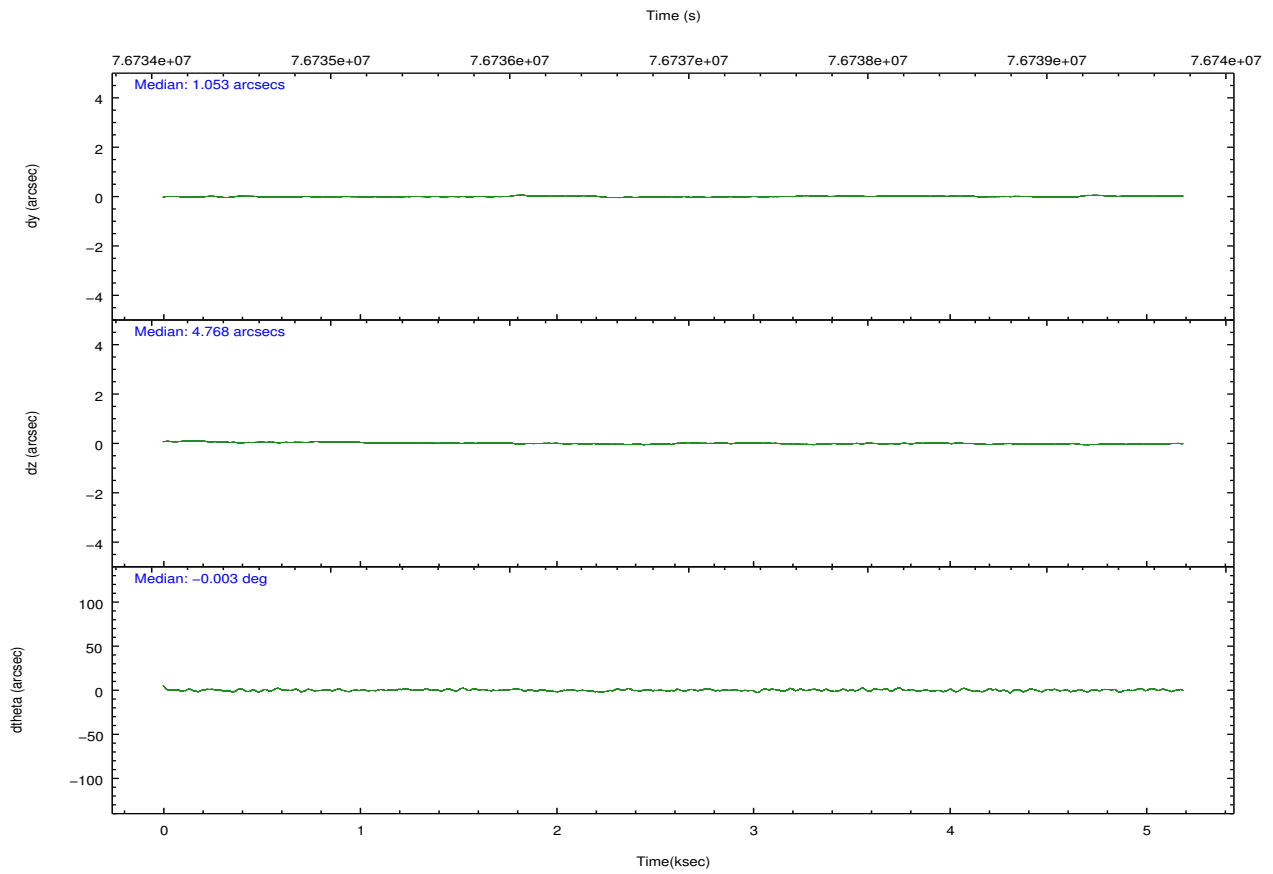
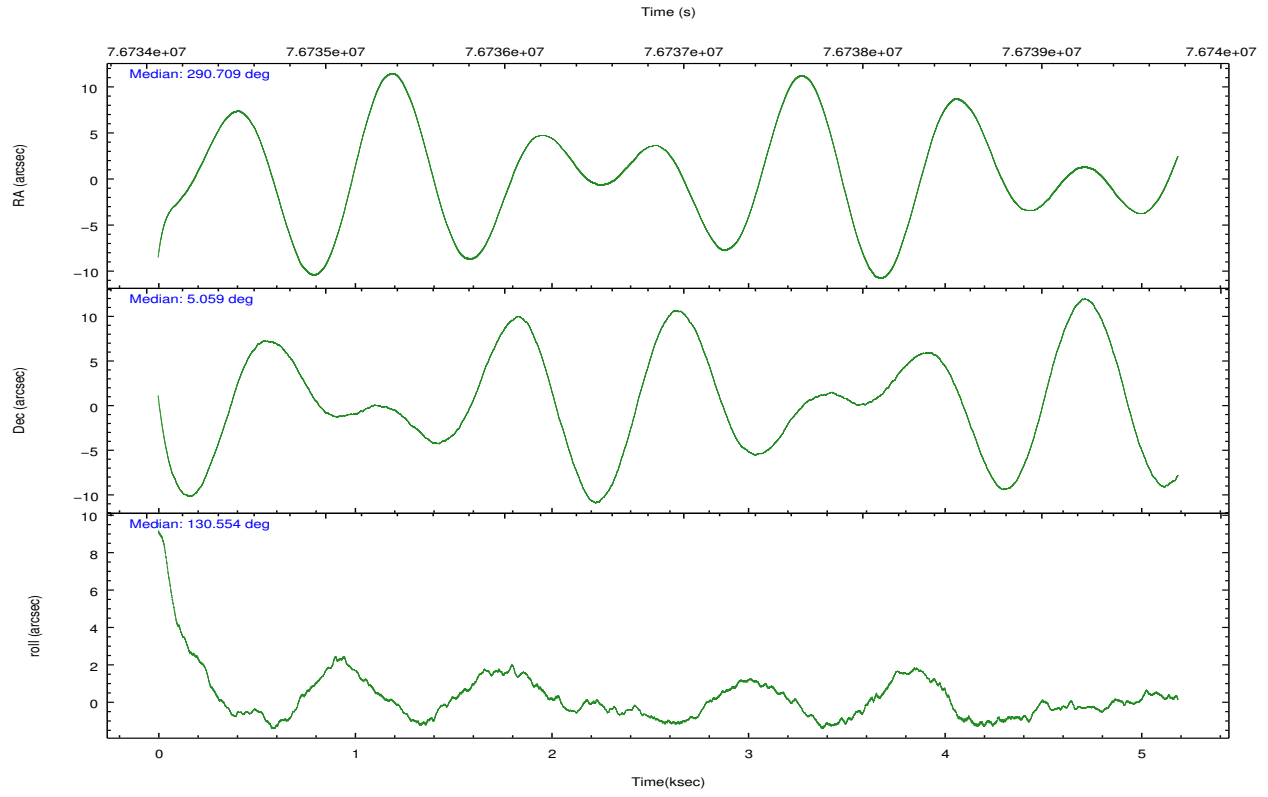
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3	ACIS-3
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	290.734773	290.7086648852143
[deg] Pointing Dec	5.049437	5.058650689116086
[deg] Pointing Roll	130.350507	130.5615063226846
[s] Window start time (MET)	76204864.184000	76204864.184000
[s] Window stop time (MET)	78796864.184000	78796864.184000
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	76734504.184000	76733357.851215
Observation start date	2000-06-07T03:07:20	2000-06-07T02:49:17
[s] Observation end time (MET)	76739504.184000	76740121.826464
Observation end date	2000-06-07T04:30:40	2000-06-07T04:42:01
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	1	1
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

## 2.3 Aspect



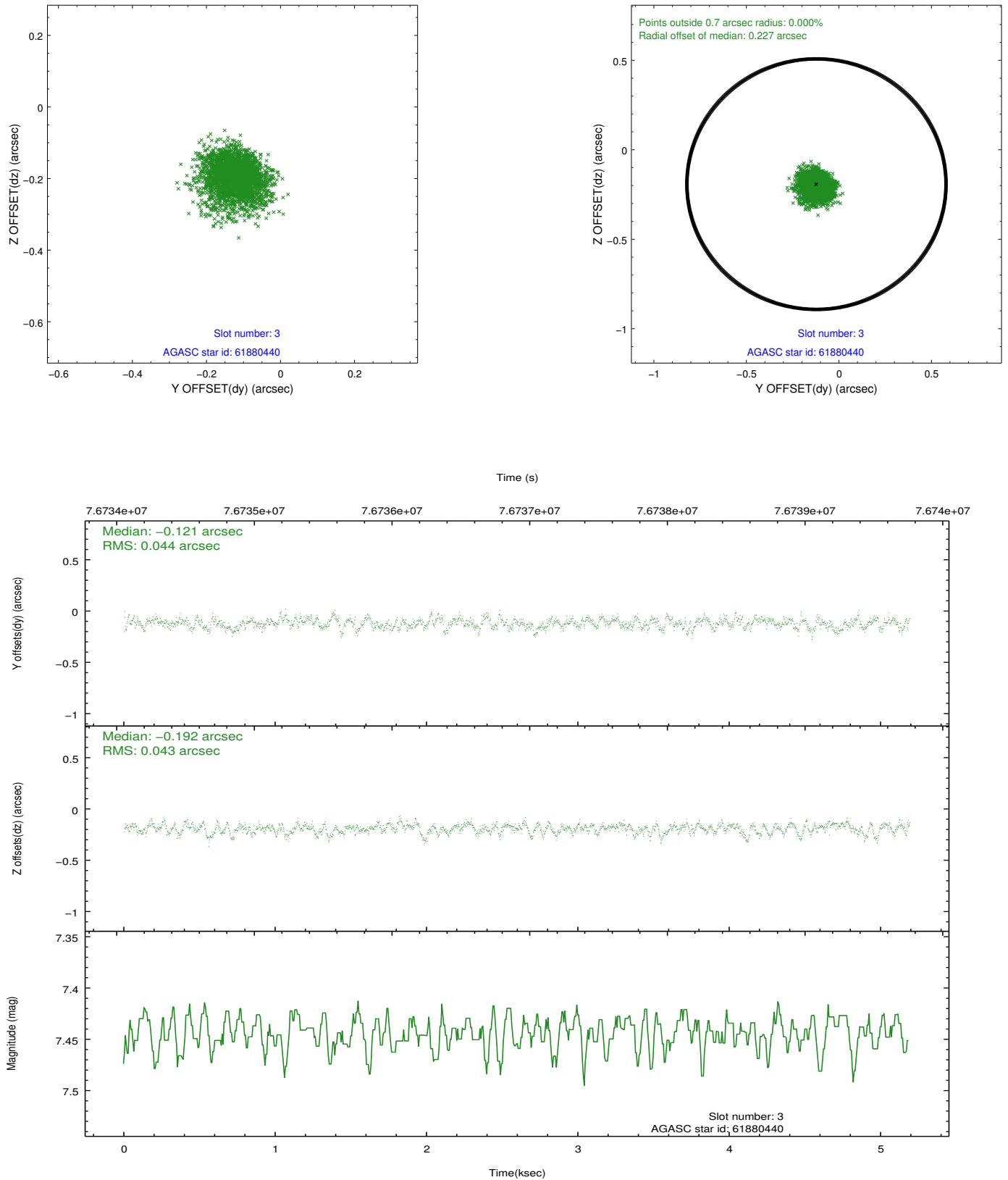


### Slot Statistics

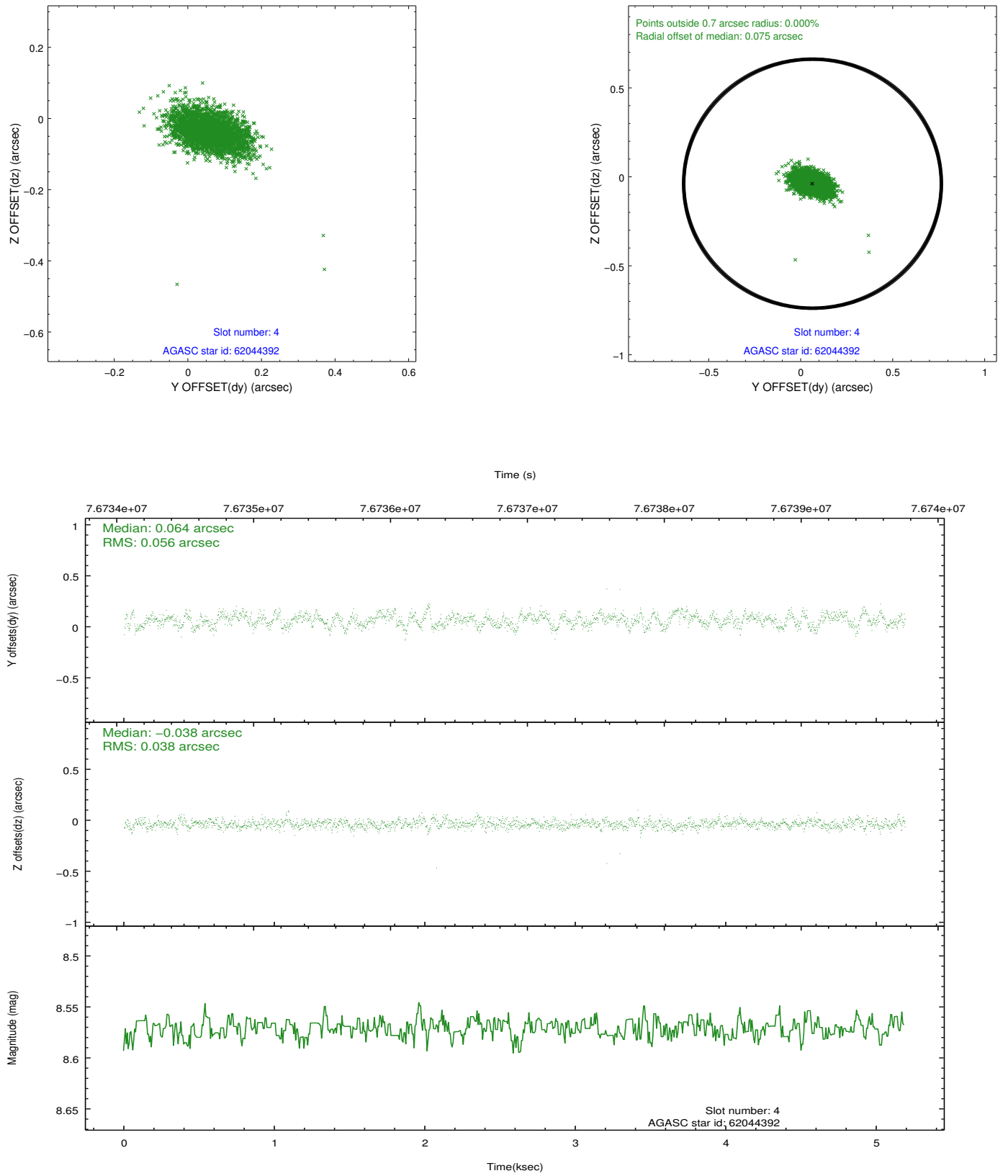
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1266	-0.047	0.012	0.004	0.007	0.000000	0.000000	-755.42	-834.47
1	FID	ACIS-I-4	7.19	1266	-0.022	0.031	0.004	0.007	0.000000	0.000000	2158.12	1071.18
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	61880440	7.44	2532	-0.121	-0.192	0.065	0.111	290.081203	4.777895	773.24	2418.75
4	GUIDE	62044392	8.57	2532	0.064	-0.038	0.069	0.117	290.763860	4.614406	-1261.20	934.97
5	GUIDE	61871112	8.69	2531	0.023	-0.000	0.063	0.105	290.340849	5.123147	1116.16	904.61
6	GUIDE	62013672	8.56	2531	-0.004	0.167	0.064	0.104	291.398358	5.180057	-1180.79	-2118.29
7	GUIDE	62021832	9.23	2530	0.041	0.069	0.084	0.132	290.889874	5.387344	566.59	-1212.26

## 2.4 Star Slots

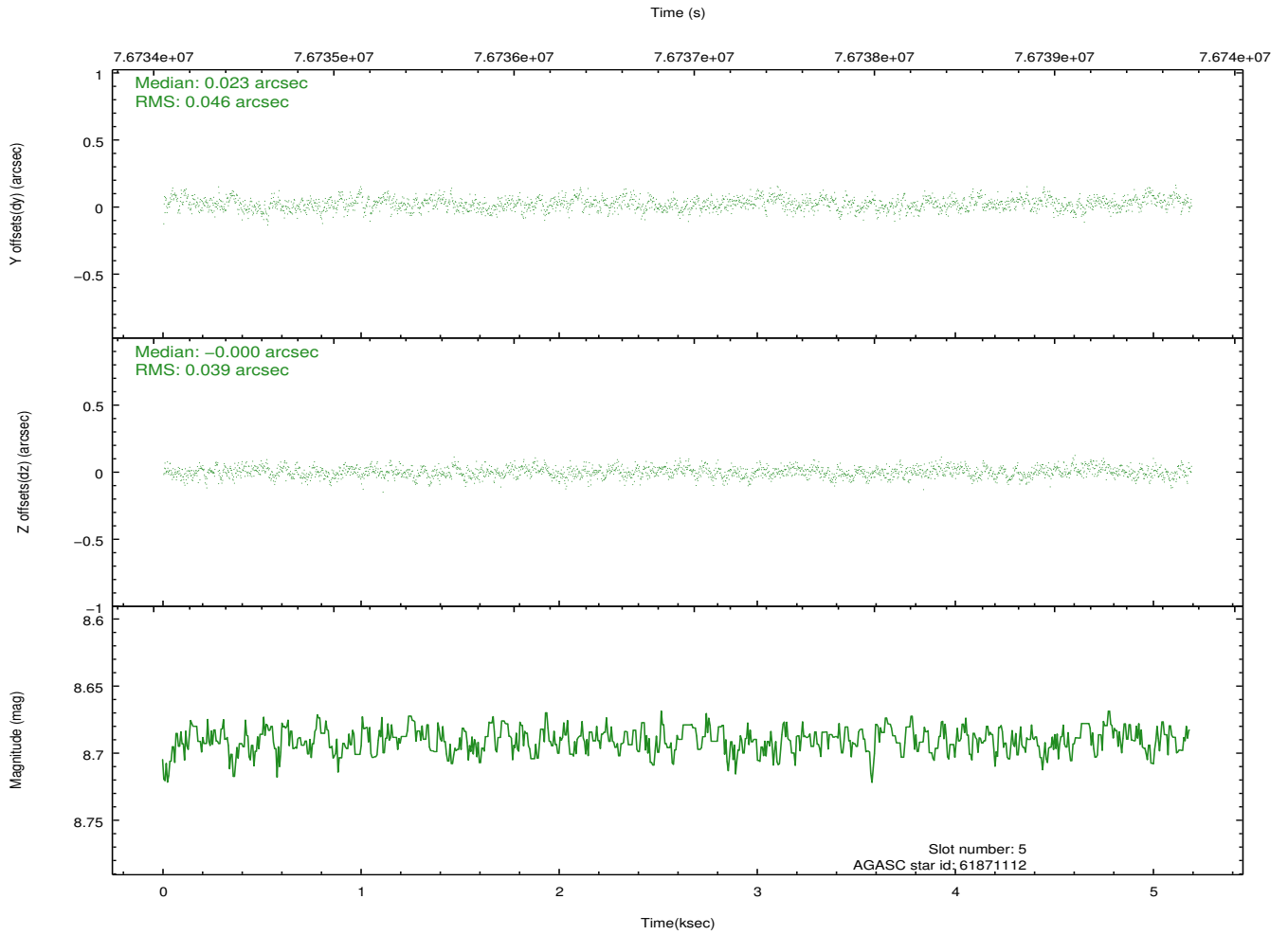
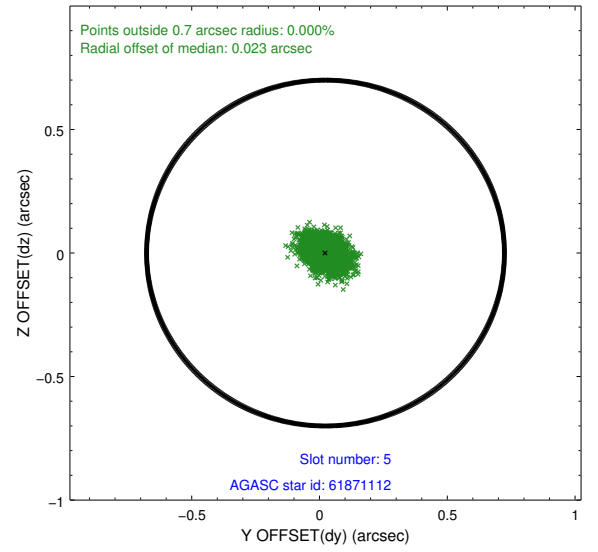
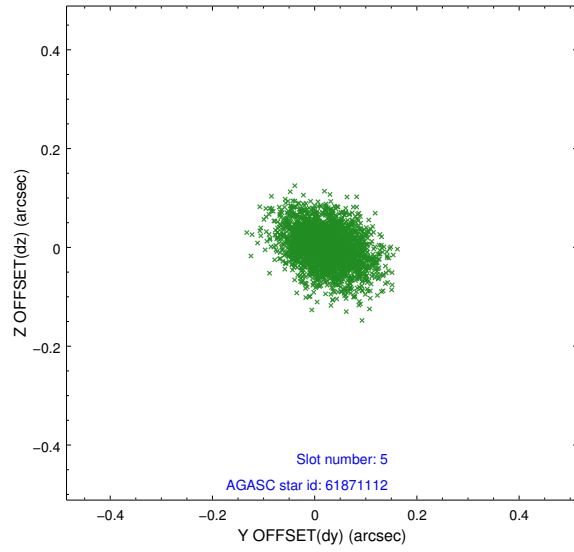
### 2.4.1 Slot 3



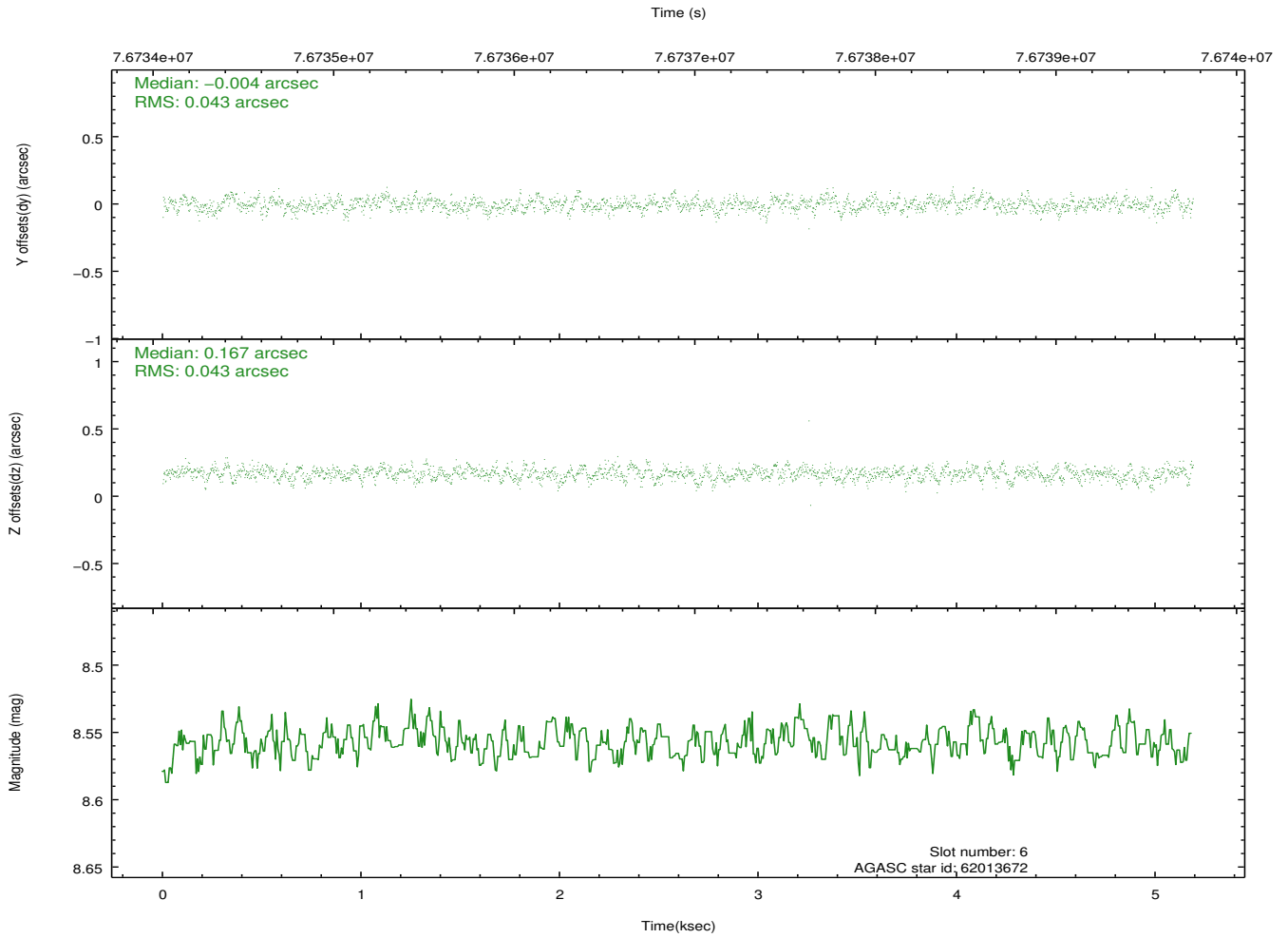
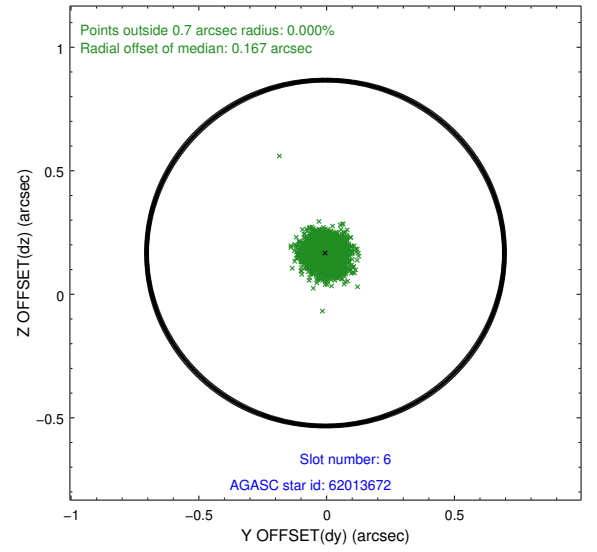
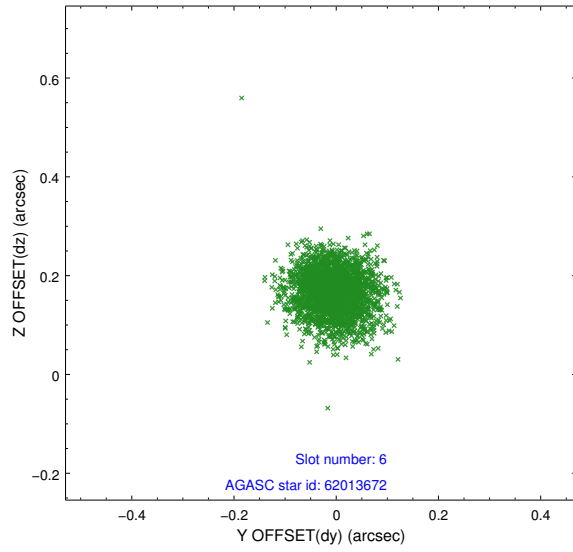
## 2.4.2 Slot 4



### 2.4.3 Slot 5

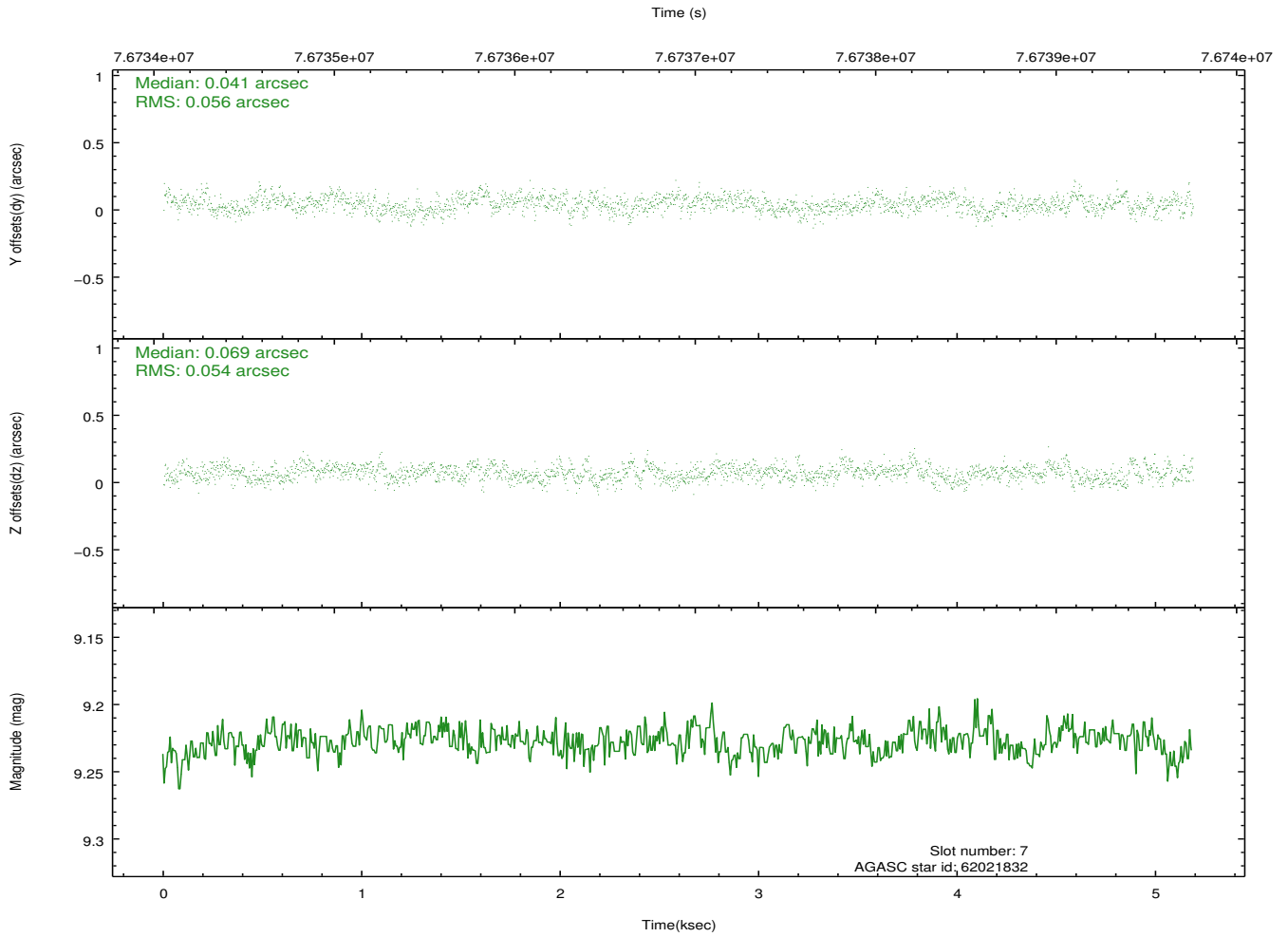
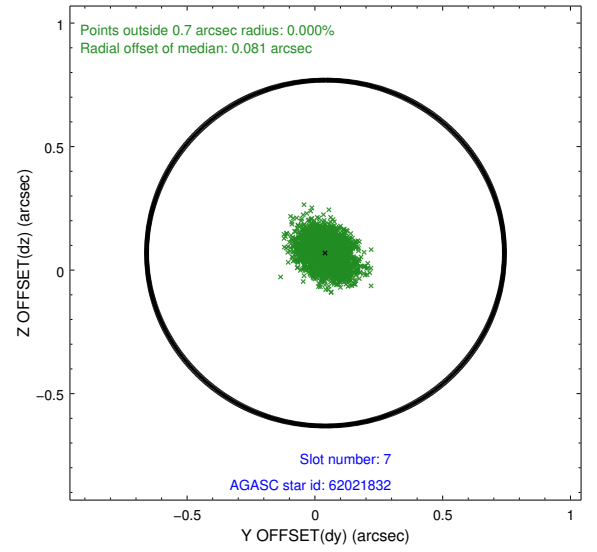
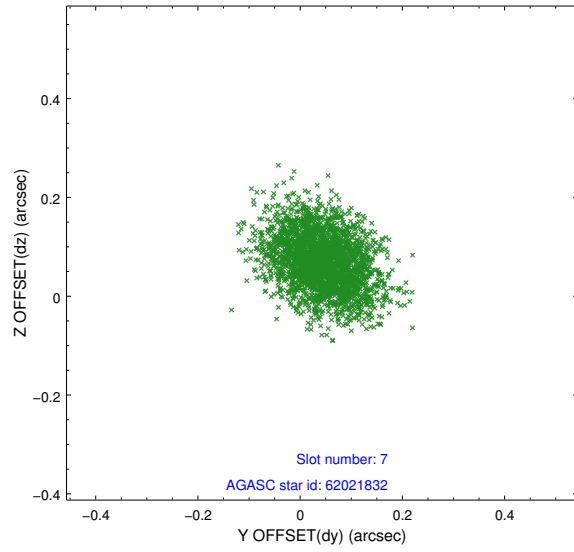


## 2.4.4 Slot 6



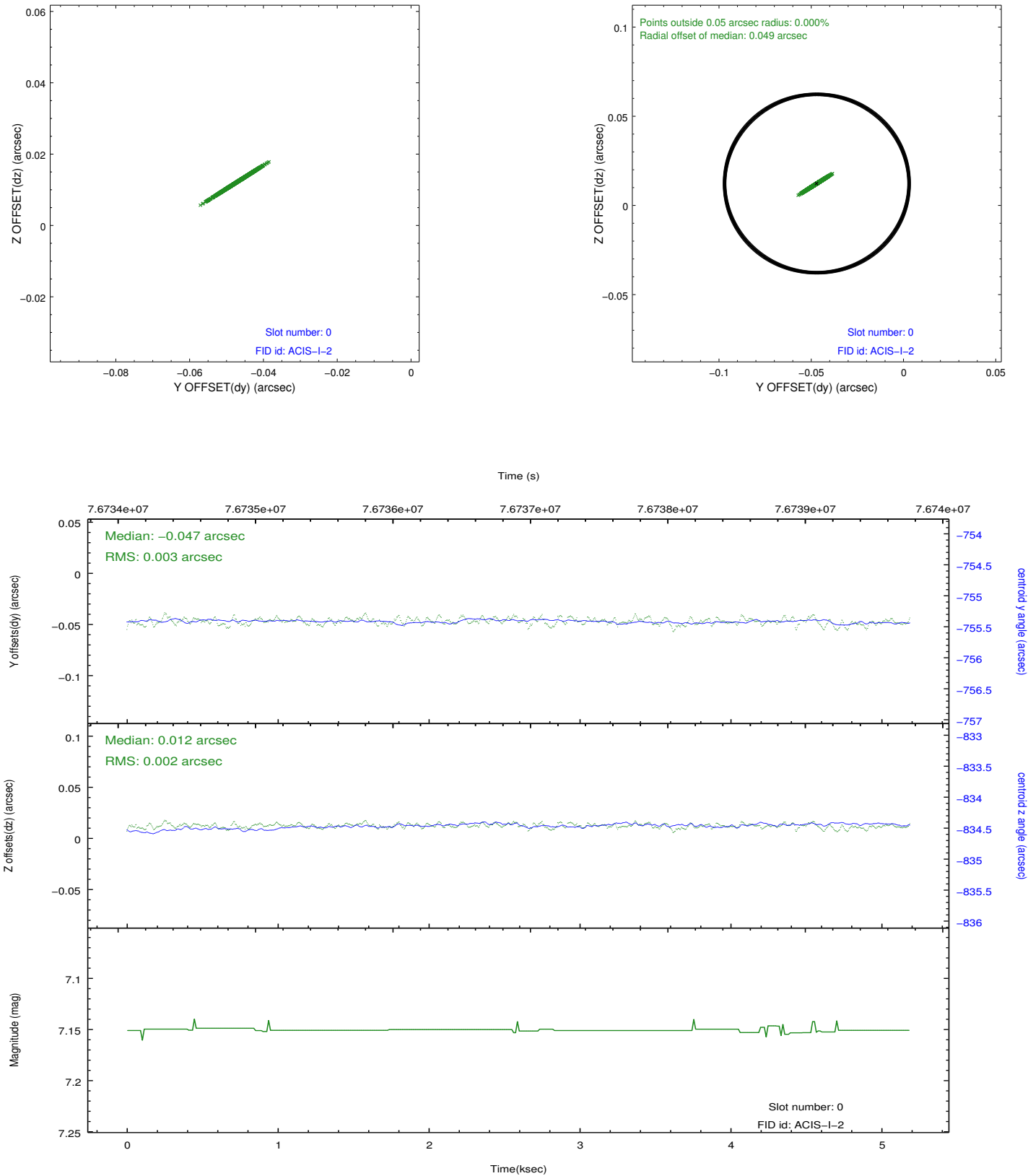


## 2.4.5 Slot 7

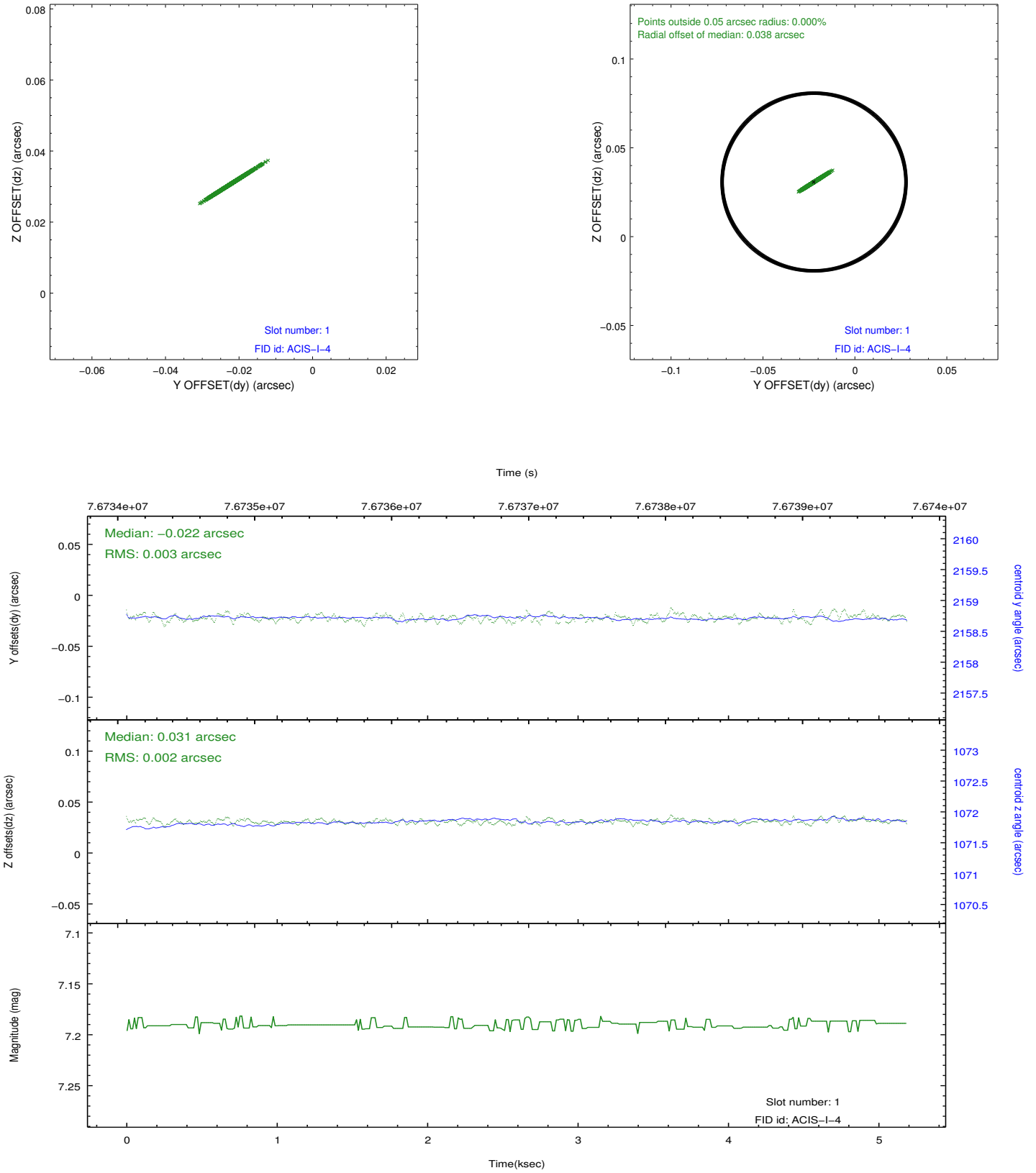


## 2.5 FID Slots

### 2.5.1 Slot 0



## 2.5.2 Slot 1



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.186

### A.2 Comments

Window constraint met. The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.