

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 83 - L2 Version 6  
Chandra X-Ray Center

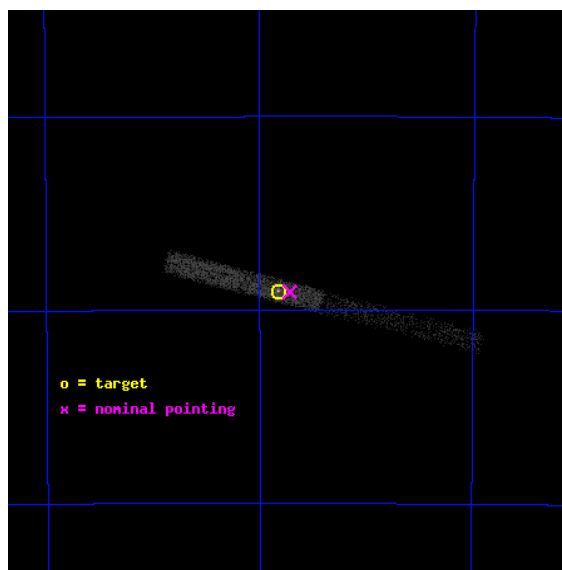
L2 Processing Date : Sep 4 2012

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# 1 Front

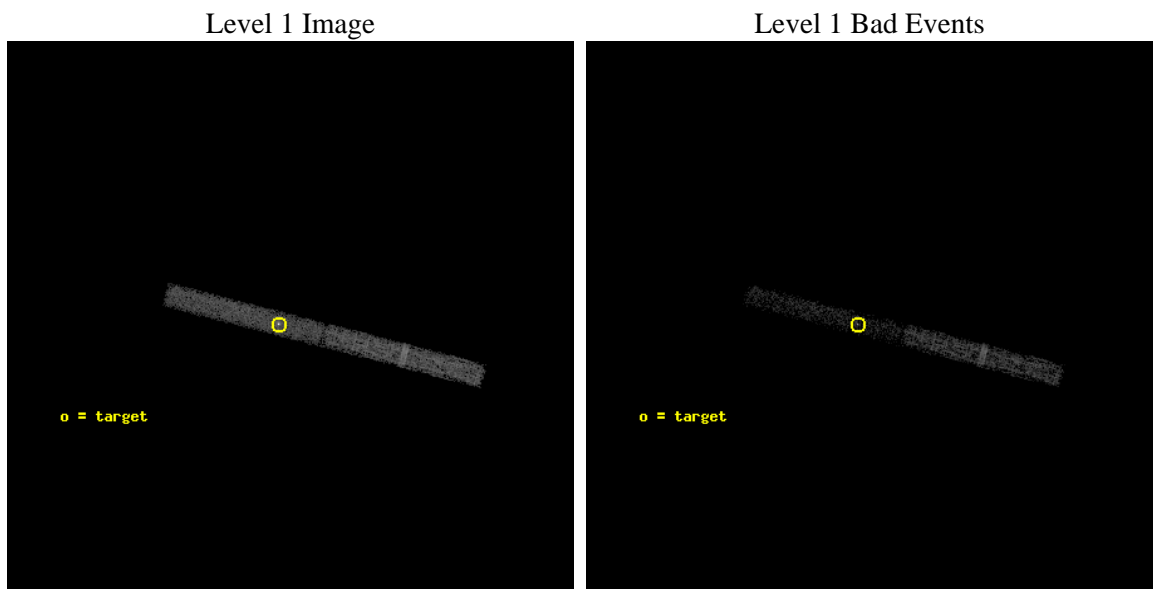
seq_num	300008	Sequence number
obs_id	83	Observation id
title	SUPER-SOFT X-RAY SOURCES	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	RX J0439.8-6809	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.956667	Observer's specified target RA [deg]
dec_targ	-68.150556	Observer's specified target Dec [deg]
ra_nom	69.929750728464	Nominal RA [deg]
dec_nom	-68.151164618128	Nominal Dec [deg]
roll_nom	194.2830190218	Nominal Roll [deg]
revision	6	Processing version of data
ontime	8108.0	Sum of GTIs [s]
livetime	7492.9764897235	Livetime [s]
ontime6	8107.4589600116	Sum of GTIs [s]
ontime7	8108.0	Sum of GTIs [s]
l2events	8346	Number of level 2 events



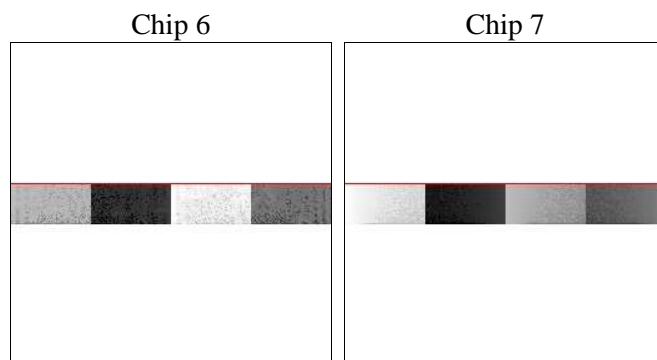
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	7500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8108.0	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime6	8107.4589600116	Sum of GTIs [s]
date	2012-09-04T23:41:42	Date and time of file creation	ontime7	8108.0	Sum of GTIs [s]
revision	6	Processing version of data	l1events	24997	Number of level 1 events

### 2.1.4 Events

	ccd 6	ccd 7
level 1 events	12517	12480
rejected events	11320	4835
rejected %	90%	38%

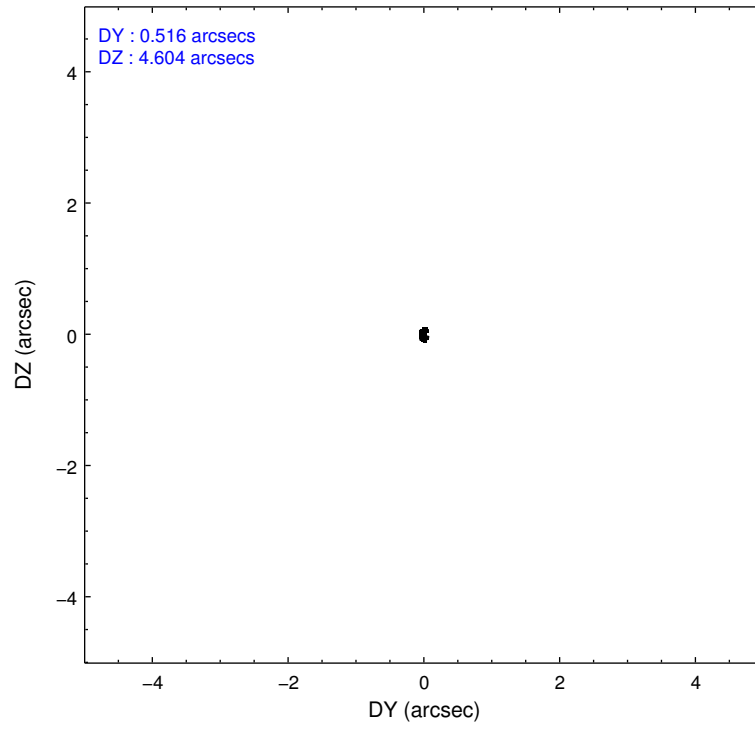
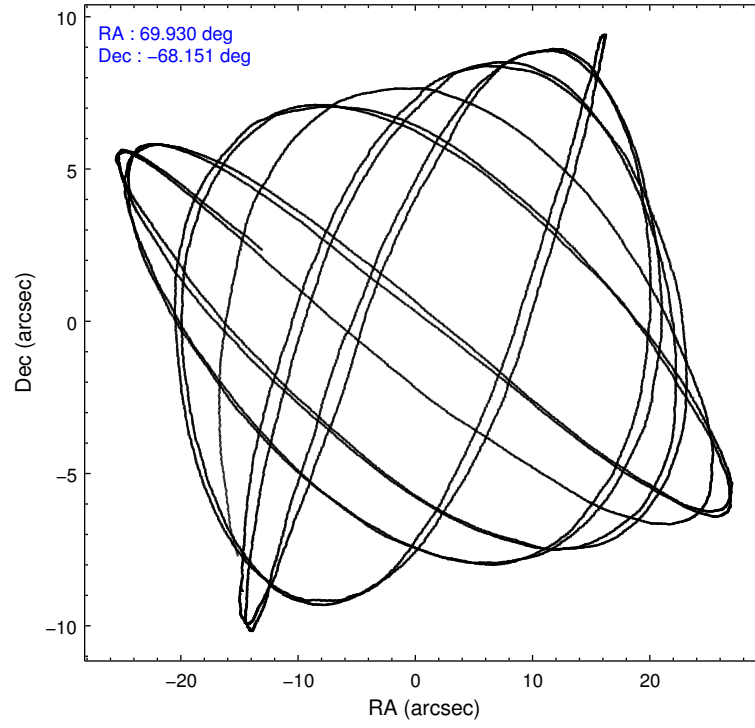
	ccd 6	ccd 7
grade 0 events	395	3324
	3%	26%
grade 1 events	2	103
	0%	0%
grade 2 events	176	1165
	1%	9%
grade 3 events	242	633
	1%	5%
grade 4 events	206	641
	1%	5%
grade 5 events	274	856
	2%	6%
grade 6 events	191	1951
	1%	15%
grade 7 events	11031	3807
	88%	30%

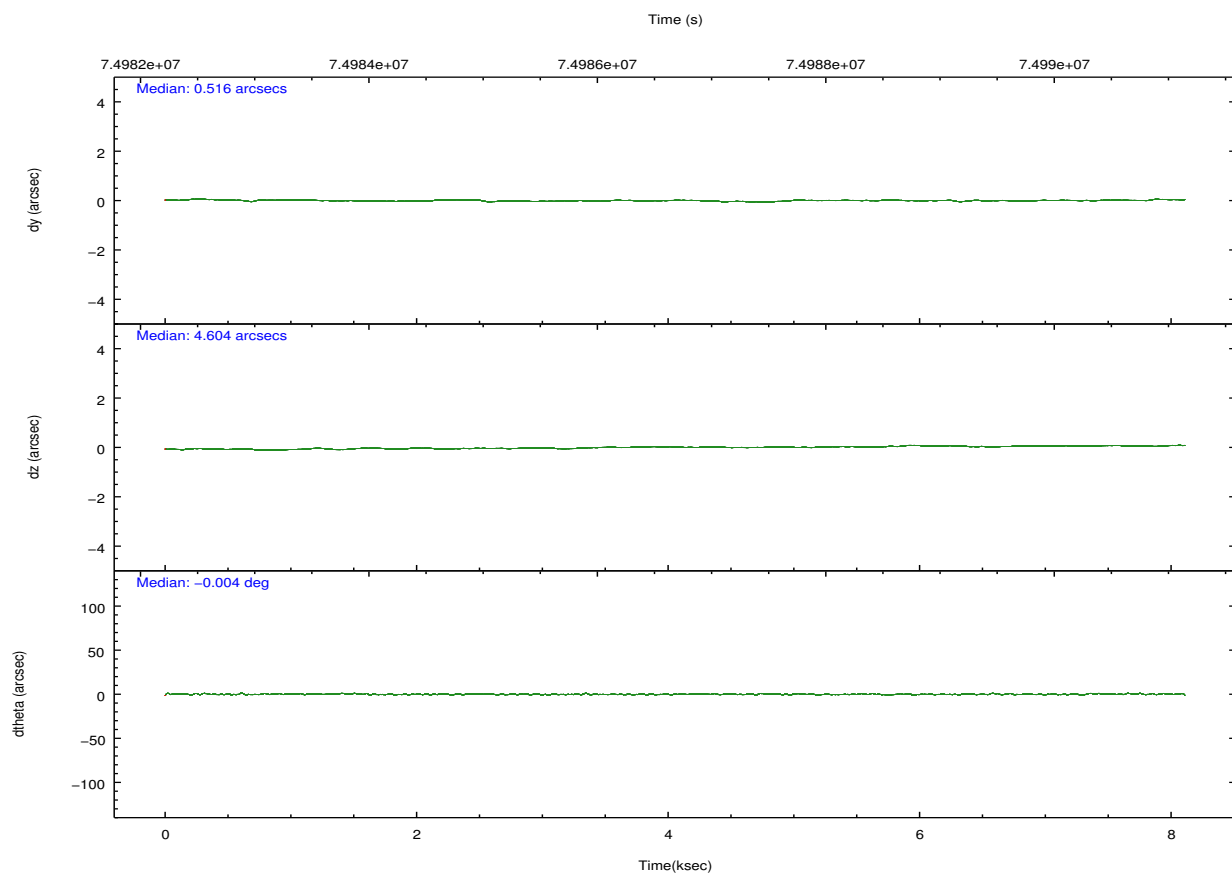
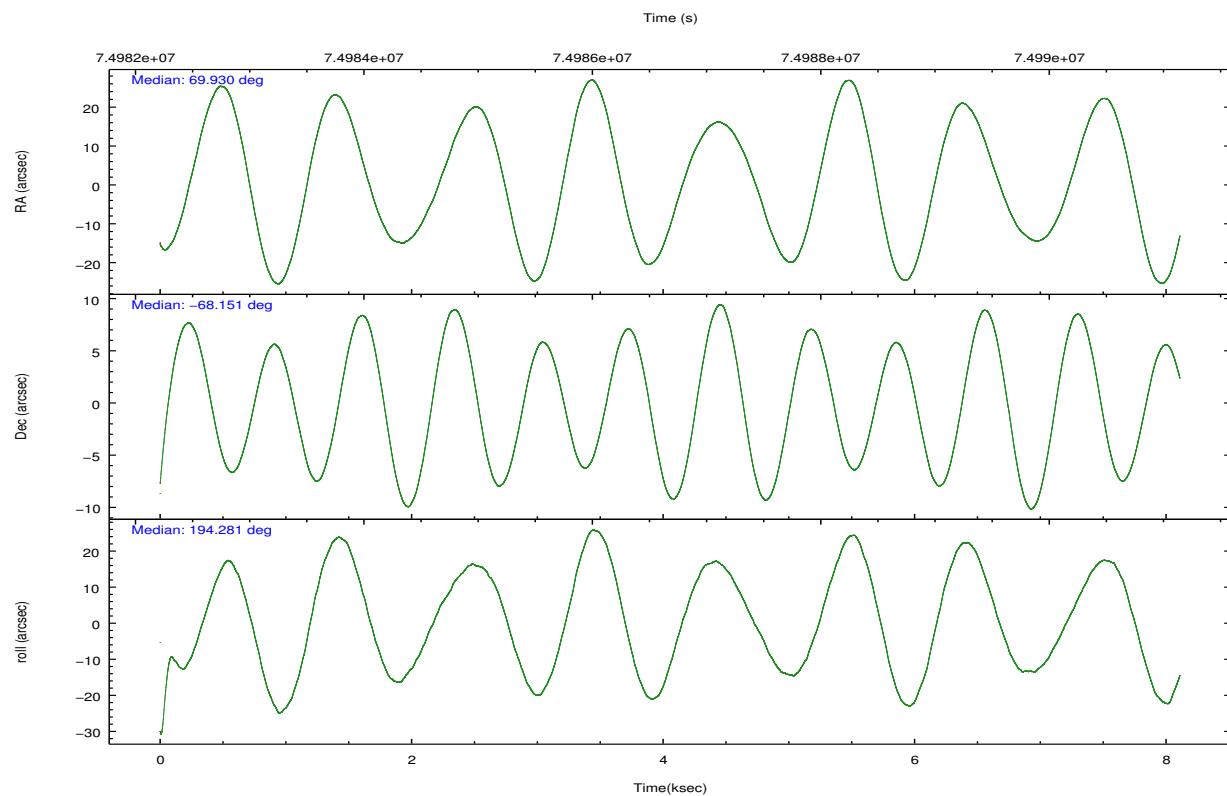


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	69.982393	69.92975072846437	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-68.131984	-68.15116461812848	Subarray start row	448	448
[deg] Pointing Roll	194.175280	194.2830190218007	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.5
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	74983234.184000	74982065.336806			
Observation start date	2000-05-17T20:39:30	2000-05-17T20:21:05			
[s] Observation end time (MET)	74990734.184000	74991506.09965301			
Observation end date	2000-05-17T22:44:30	2000-05-17T22:58:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect



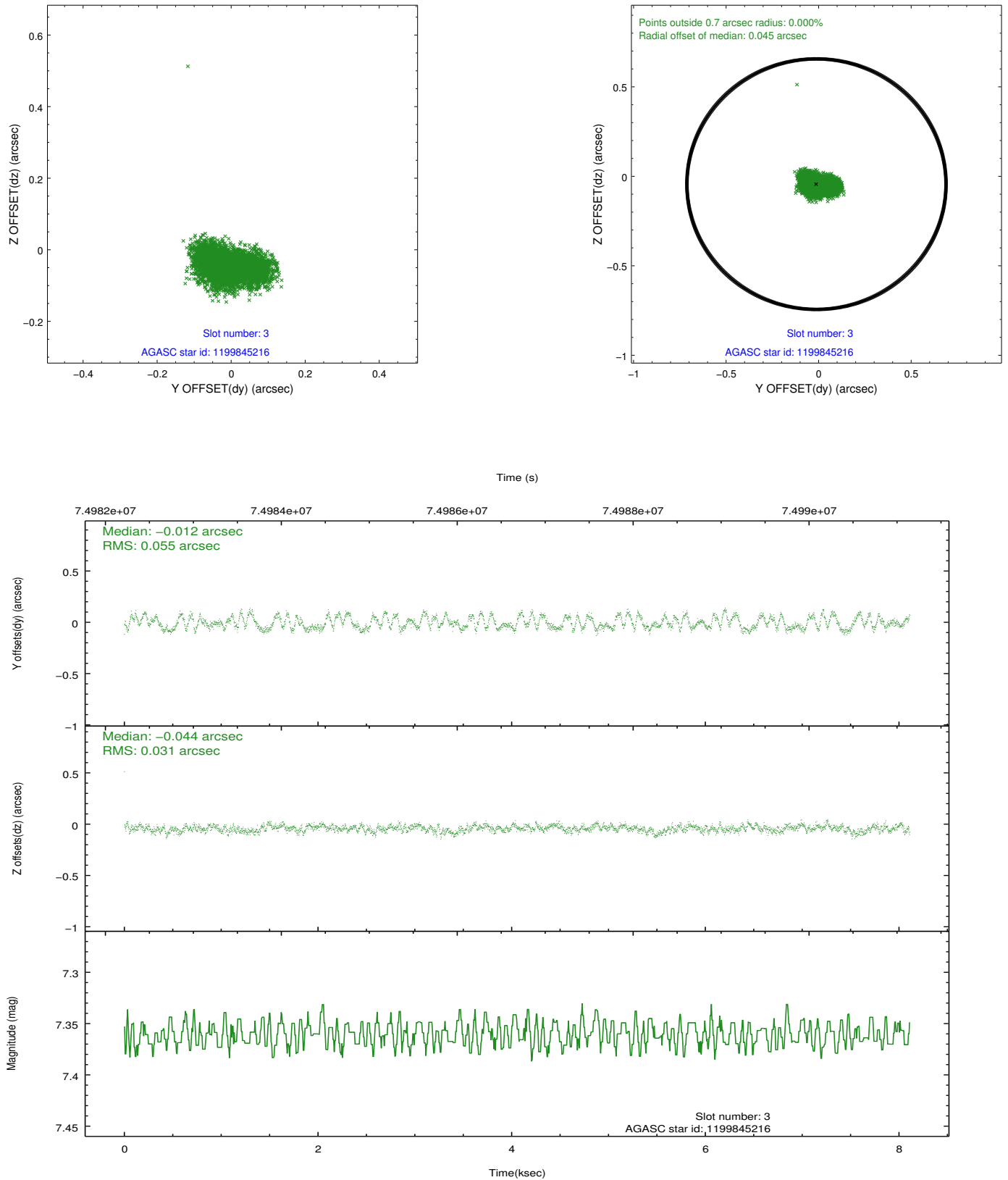


### Slot Statistics

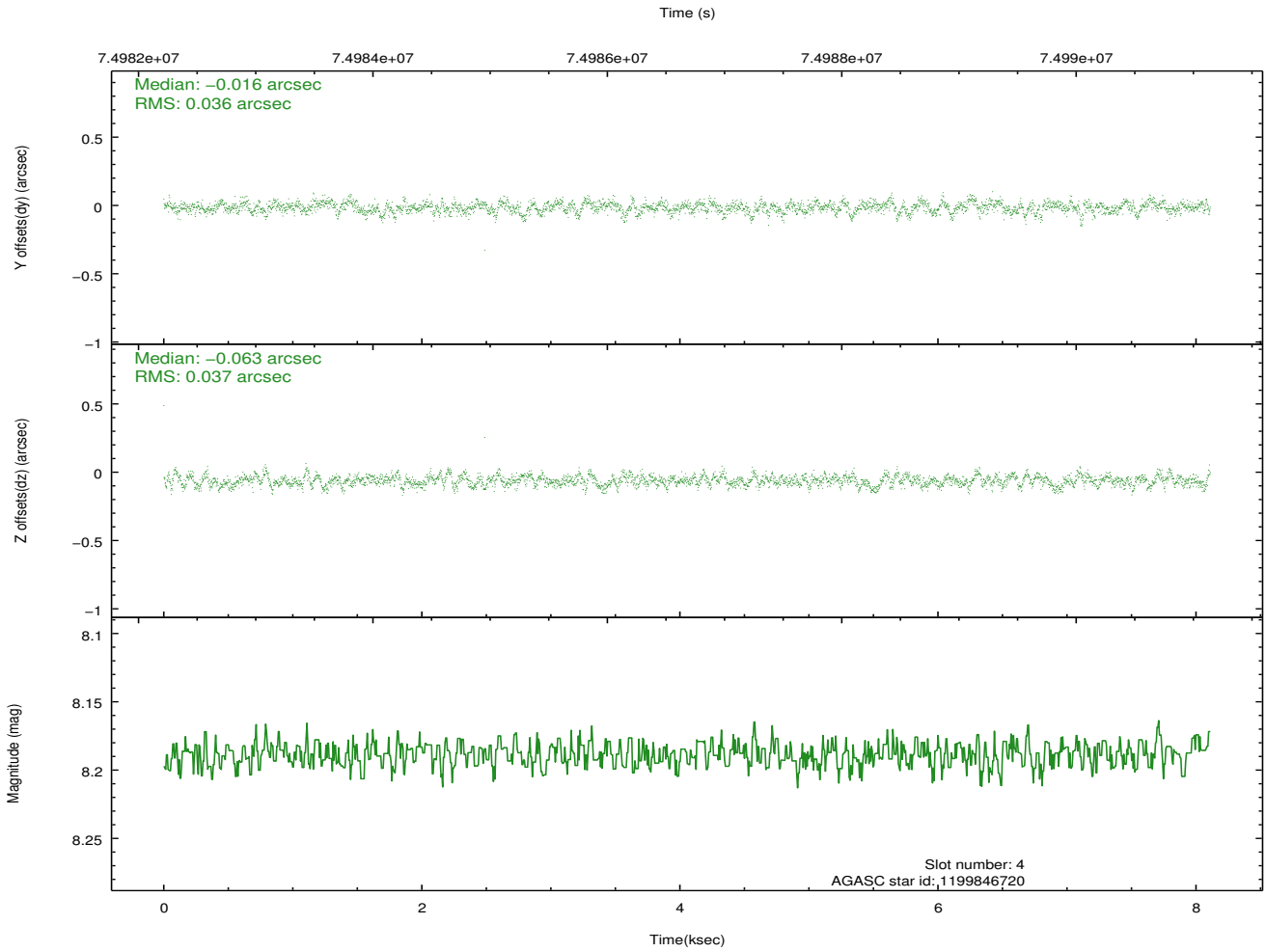
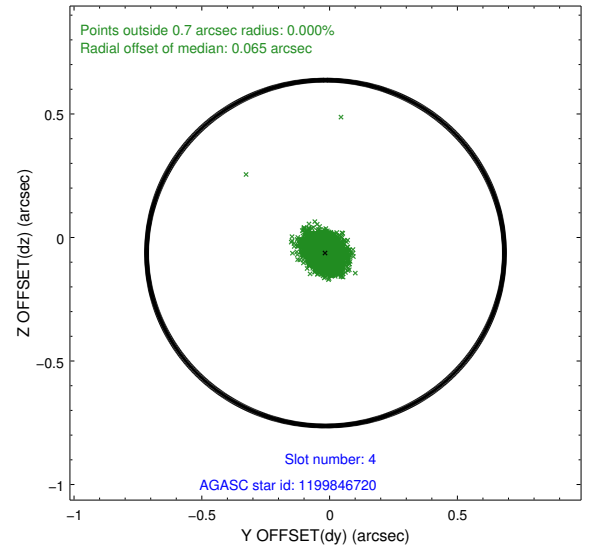
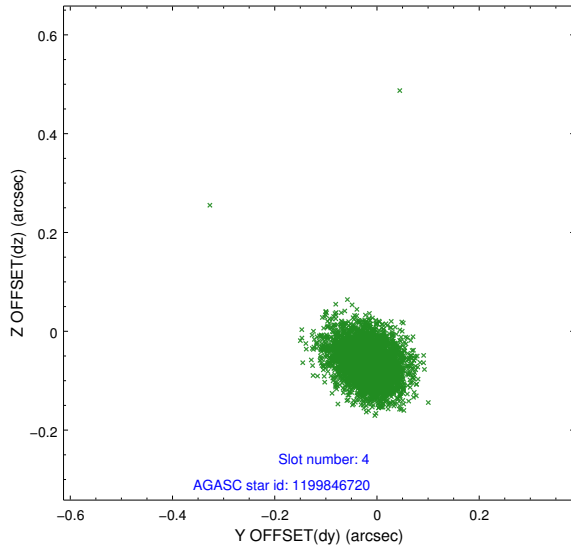
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1979	-0.043	-0.041	0.005	0.010	0.000000	0.000000	-753.15	-1725.73
1	FID	ACIS-S-4	7.21	1979	0.015	0.017	0.006	0.010	0.000000	0.000000	2159.89	182.07
2	FID	ACIS-S-6	7.35	1979	-0.000	0.031	0.007	0.011	0.000000	0.000000	409.79	820.28
3	GUIDE	1199845216	7.36	3956	-0.012	-0.044	0.069	0.105	71.656273	-68.546034	-1763.47	2014.56
4	GUIDE	1199846720	8.19	3956	-0.016	-0.063	0.054	0.089	71.282393	-68.021166	-1790.78	61.11
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	1199836424	10.10	3948	0.093	-0.006	0.115	0.191	71.350380	-67.589287	-2292.94	-1413.70
7	GUIDE	1164974200	9.34	3955	-0.071	0.118	0.096	0.152	70.698989	-67.406913	-1598.36	-2282.07

## 2.4 Star Slots

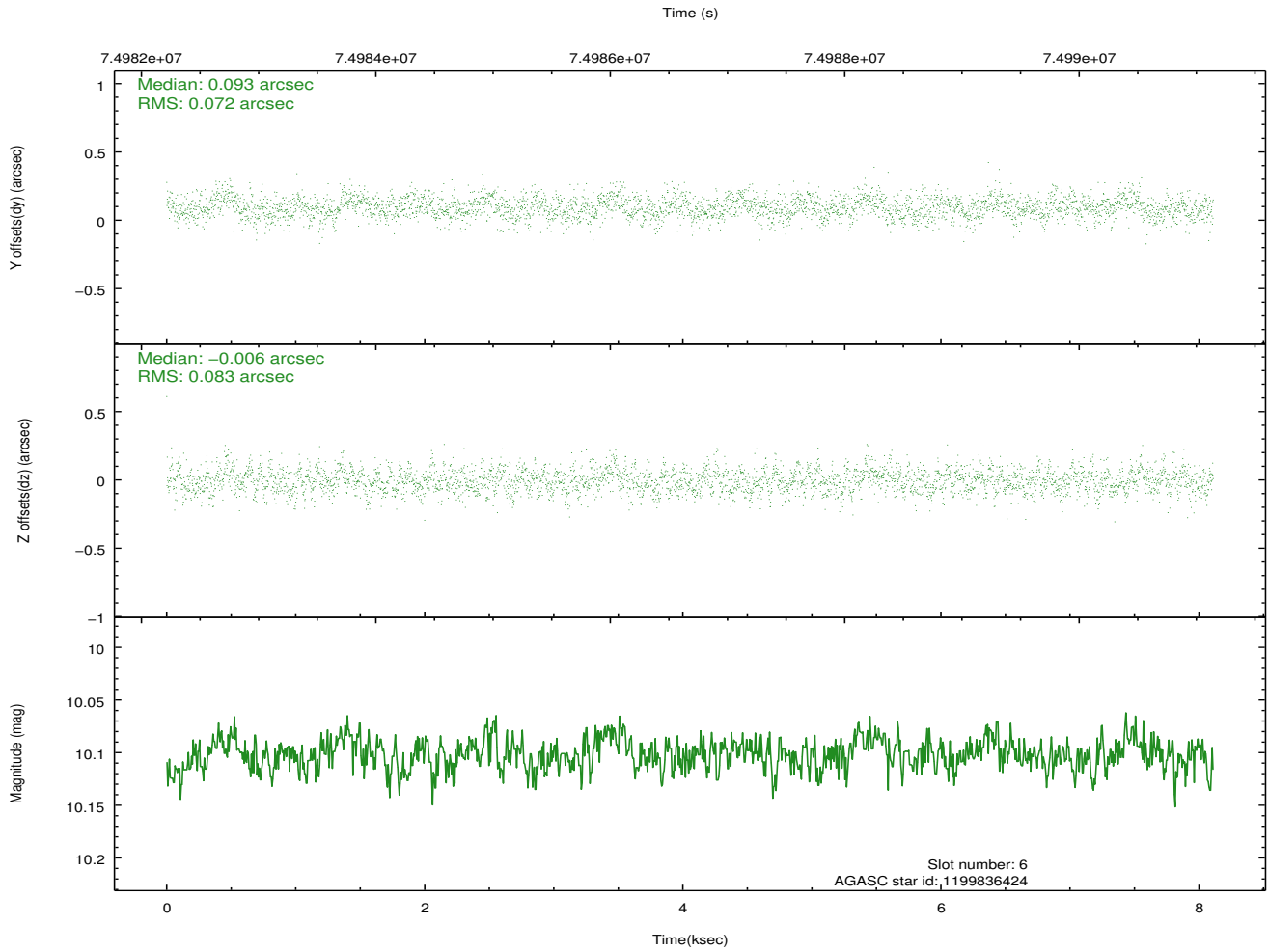
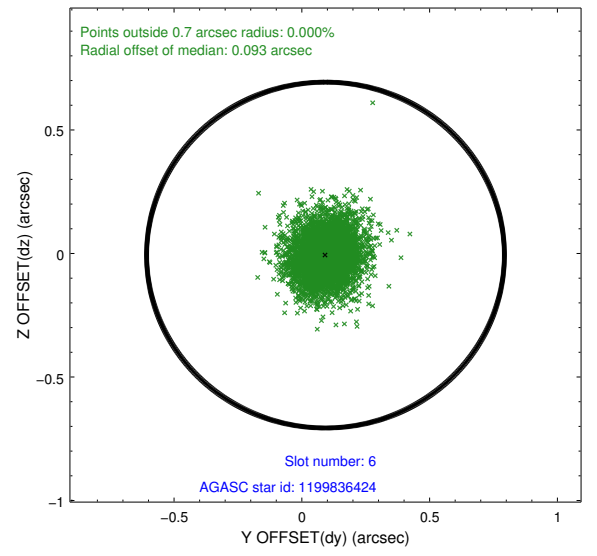
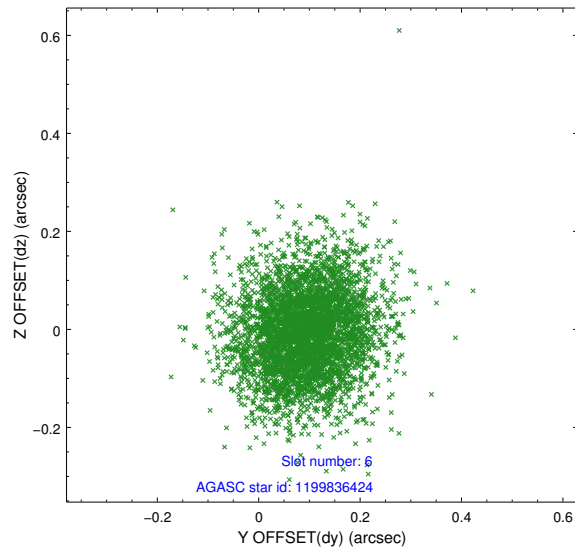
### 2.4.1 Slot 3



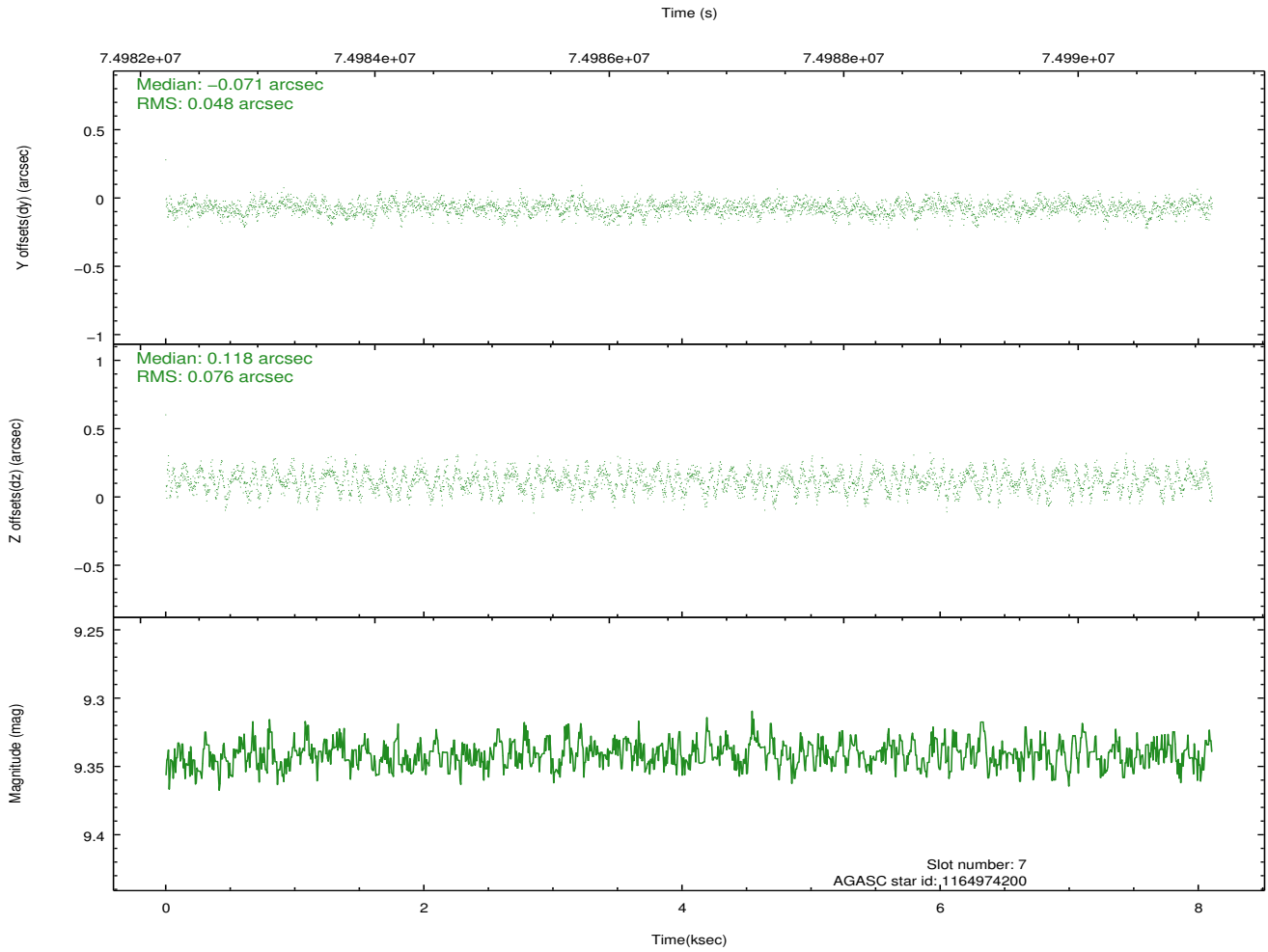
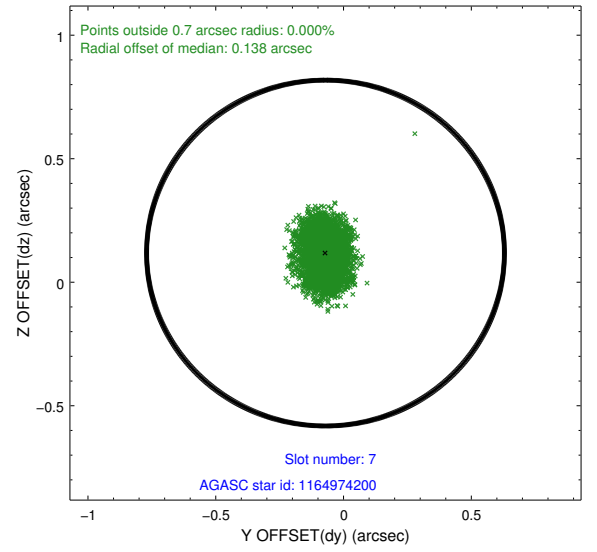
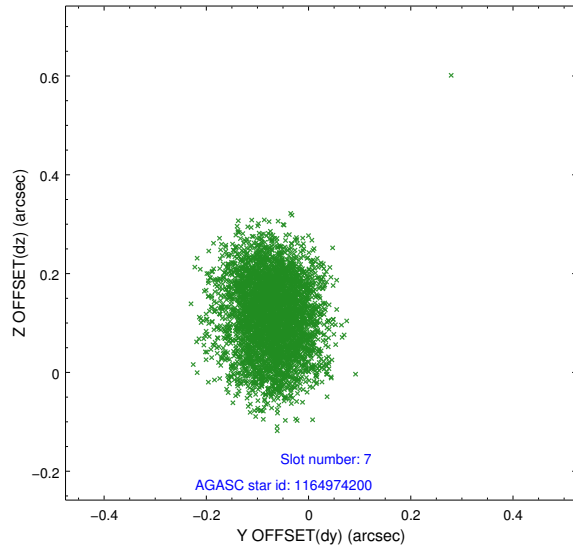
## 2.4.2 Slot 4



### 2.4.3 Slot 6



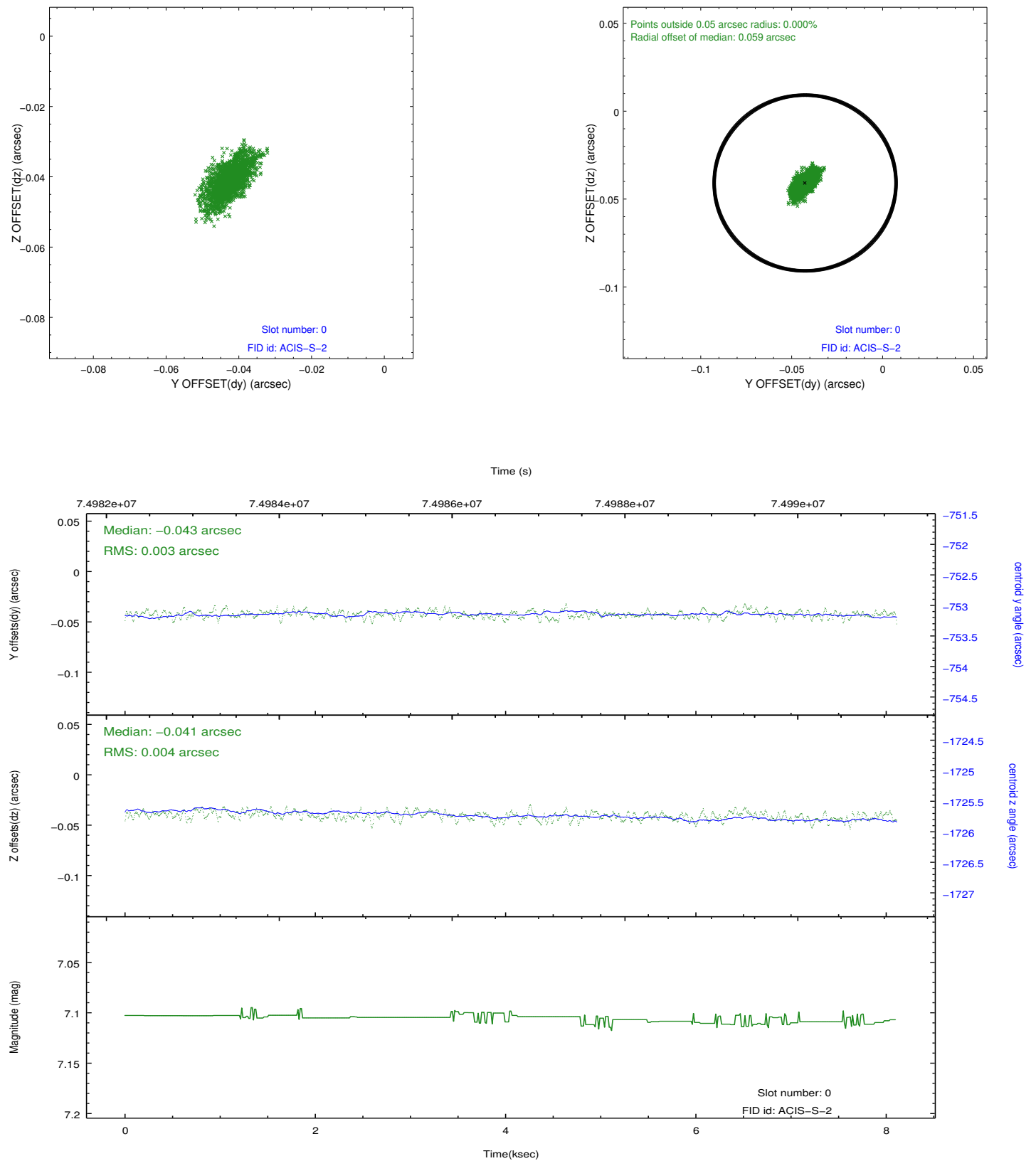
## 2.4.4 Slot 7



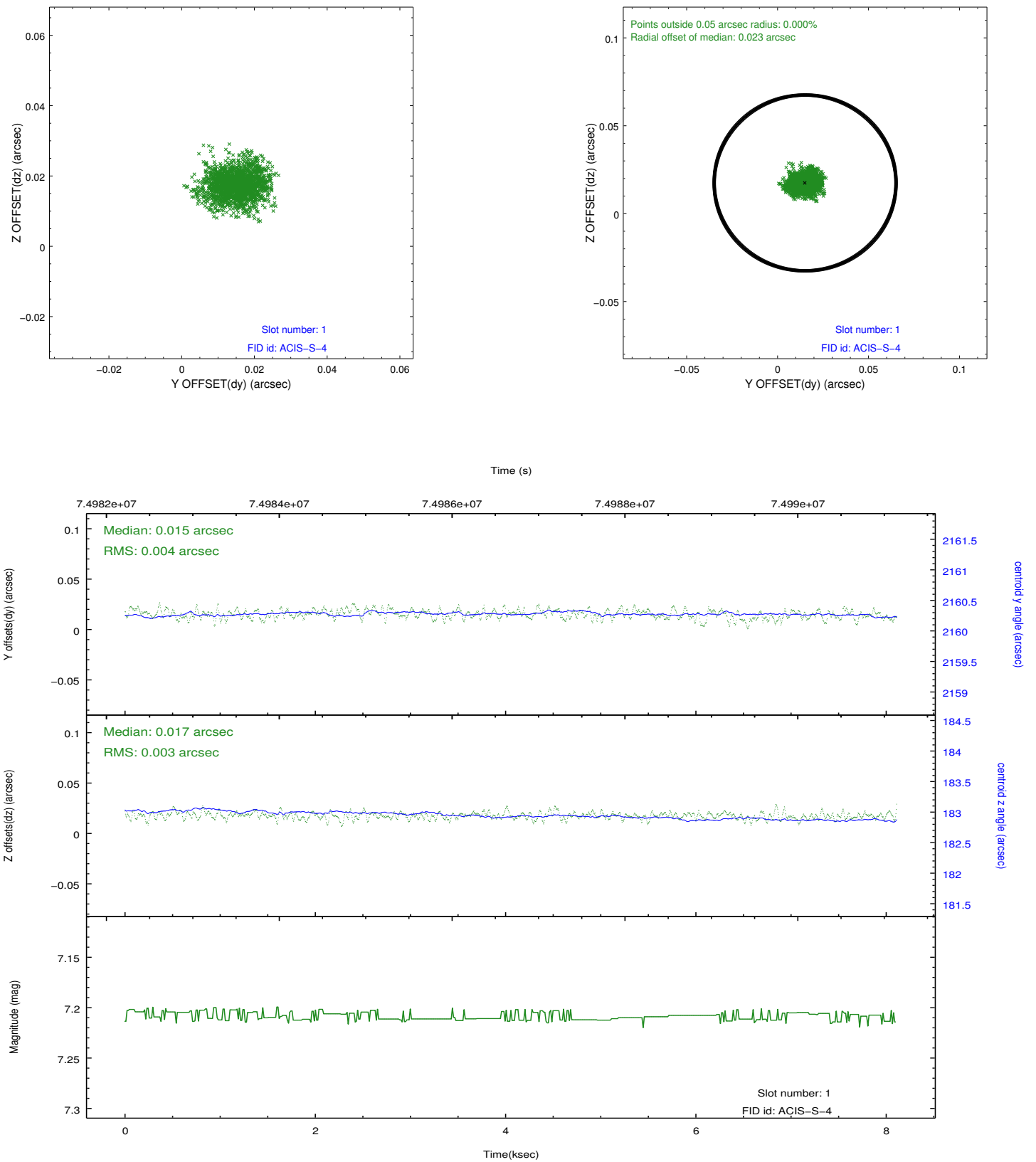


## 2.5 FID Slots

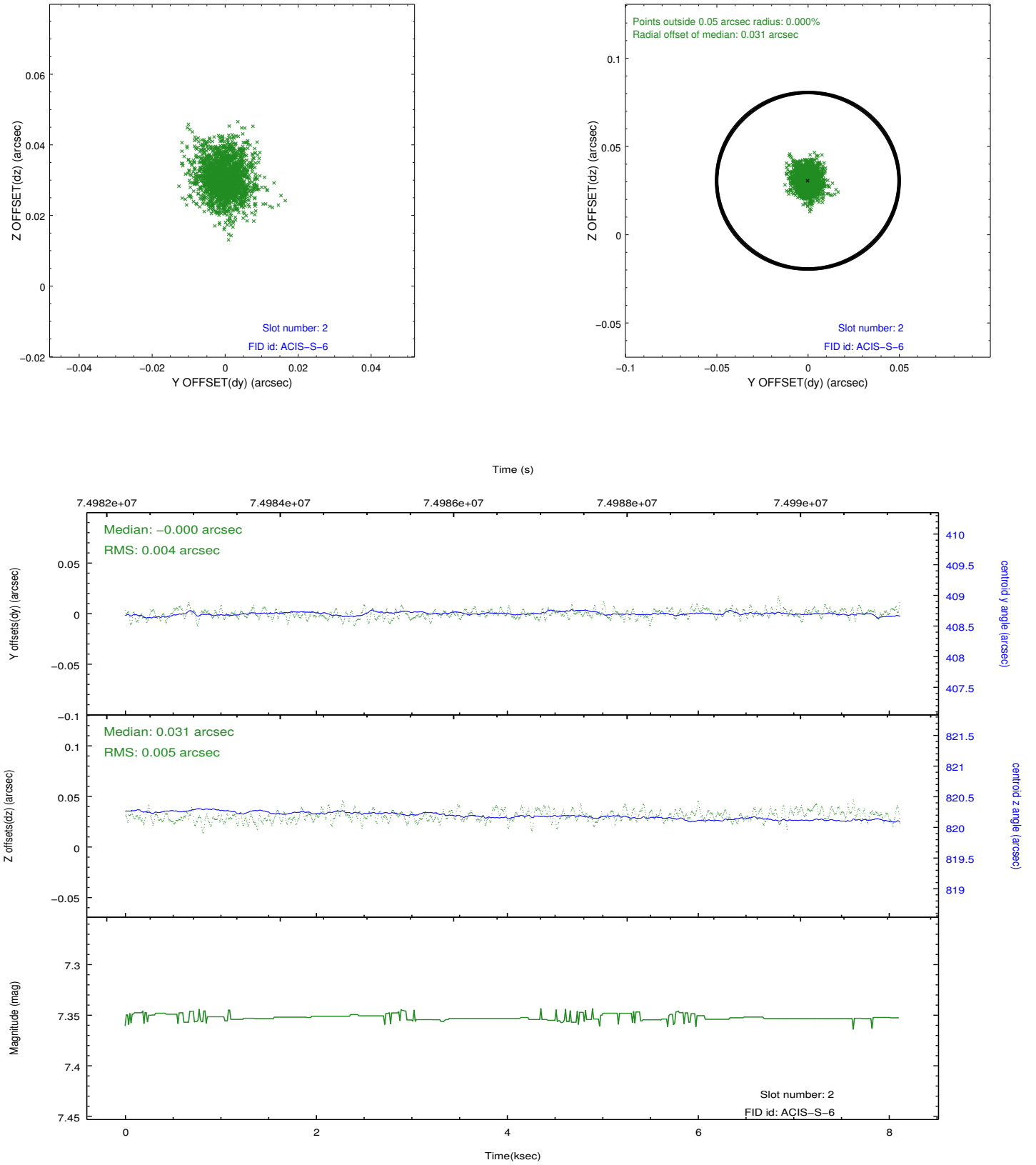
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## 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	8.108

### A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.