

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4082 - L2 Version 3  
Chandra X-Ray Center

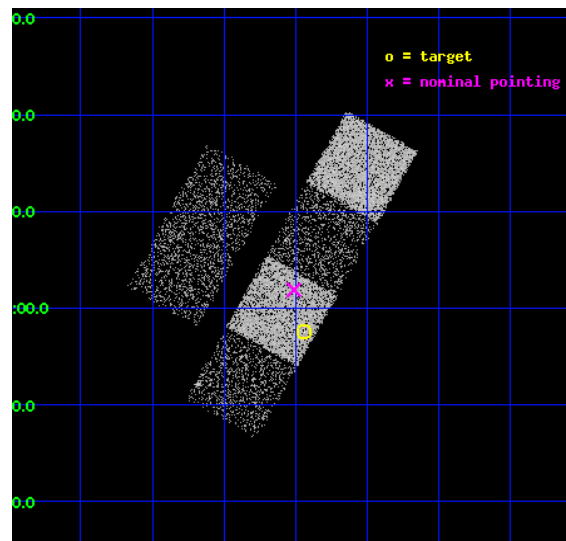
L2 Processing Date : Oct 29 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

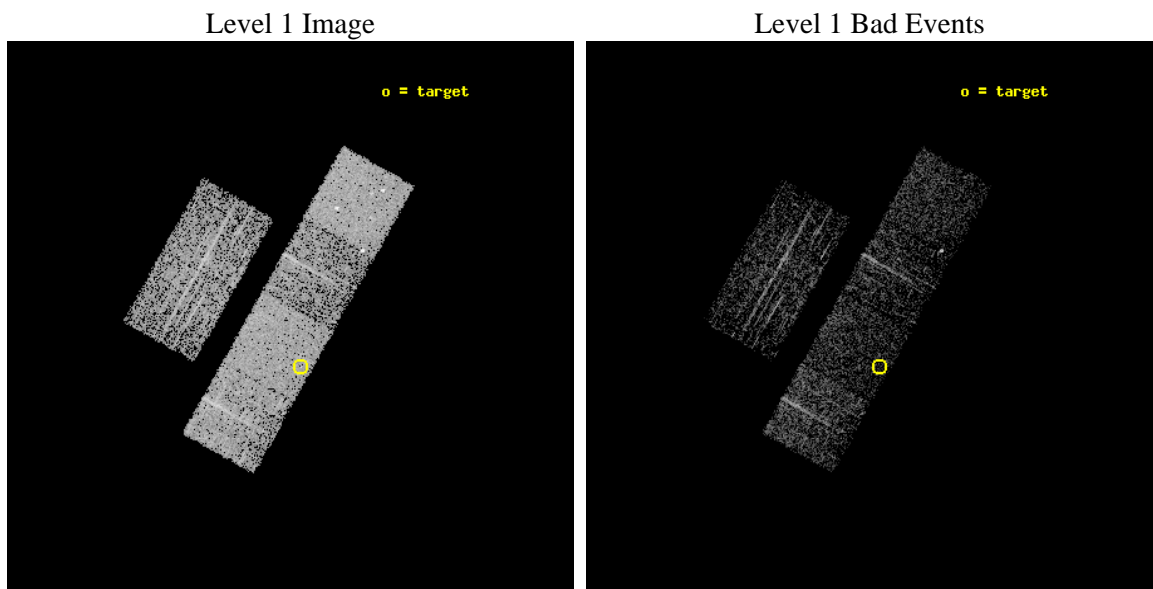
seq_num	700761	Sequence number
obs_id	4082	Observation id
title	ARE ALL NARROW-LINE SEYFERT 1S ULTRASOFT X-RAY SOURCES?	Proposal t
observer	Prof RICHARD POGGE	Principal investigator
object	SDSS J022756.28+005733.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.984583	Observer's specified target RA [deg]
dec_targ	0.959194	Observer's specified target Dec [deg]
ra_nom	37.003147660592	Nominal RA [deg]
dec_nom	1.0316208086368	Nominal Dec [deg]
roll_nom	119.43566093095	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1747.1999934912	Sum of GTIs [s]
livetime	1725.0758951361	Livetime [s]
ontime2	1747.1999934912	Sum of GTIs [s]
ontime3	1747.1999934912	Sum of GTIs [s]
ontime5	1747.1999934912	Sum of GTIs [s]
ontime6	1747.1999934912	Sum of GTIs [s]
ontime7	1747.1999934912	Sum of GTIs [s]
ontime8	1743.9591527581	Sum of GTIs [s]
l2events	21481	Number of level 2 events



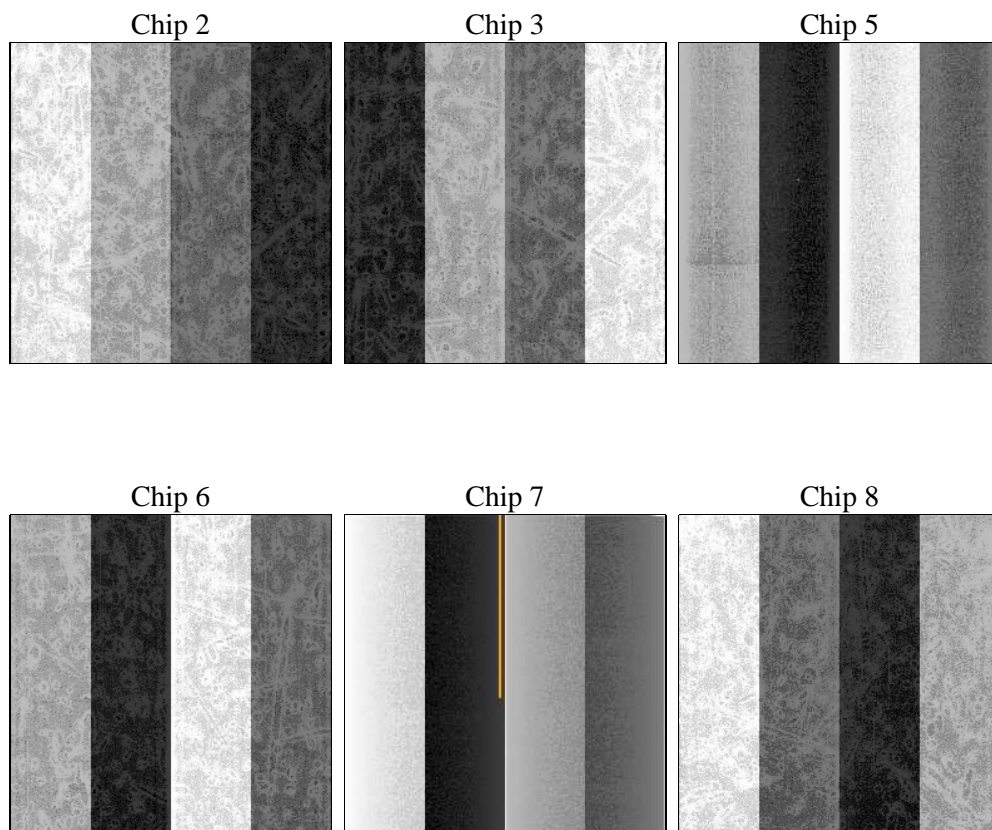
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1991.098000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1747.1999934912	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	1747.1999934912	Sum of GTIs [s]
date	2012-10-29T17:41:34	Date and time of file creation	ontime3	1747.1999934912	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1747.1999934912	Sum of GTIs [s]
			ontime6	1747.1999934912	Sum of GTIs [s]
			ontime7	1747.1999934912	Sum of GTIs [s]
			ontime8	1743.9591527581	Sum of GTIs [s]
			l1events	82967	Number of level 1 events

### 2.1.4 Events

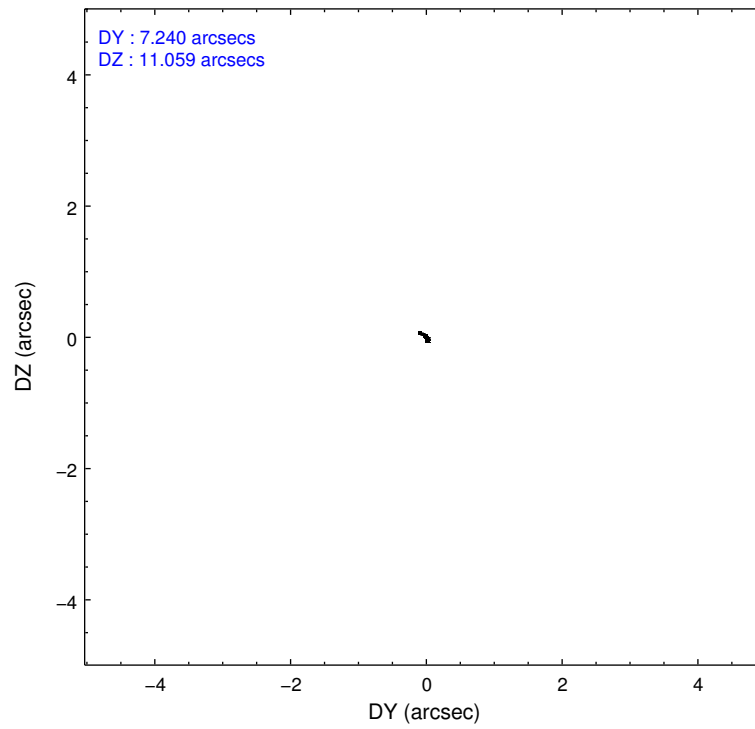
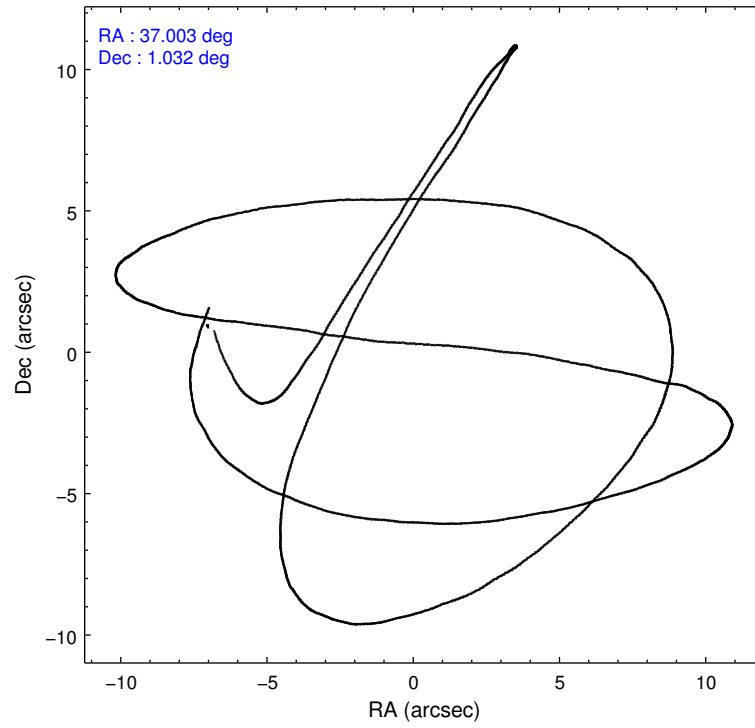
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	10841	10657	18778	10505	16539	15647
rejected events	9527	9348	8784	9116	8490	12712
rejected %	87%	87%	46%	86%	51%	81%

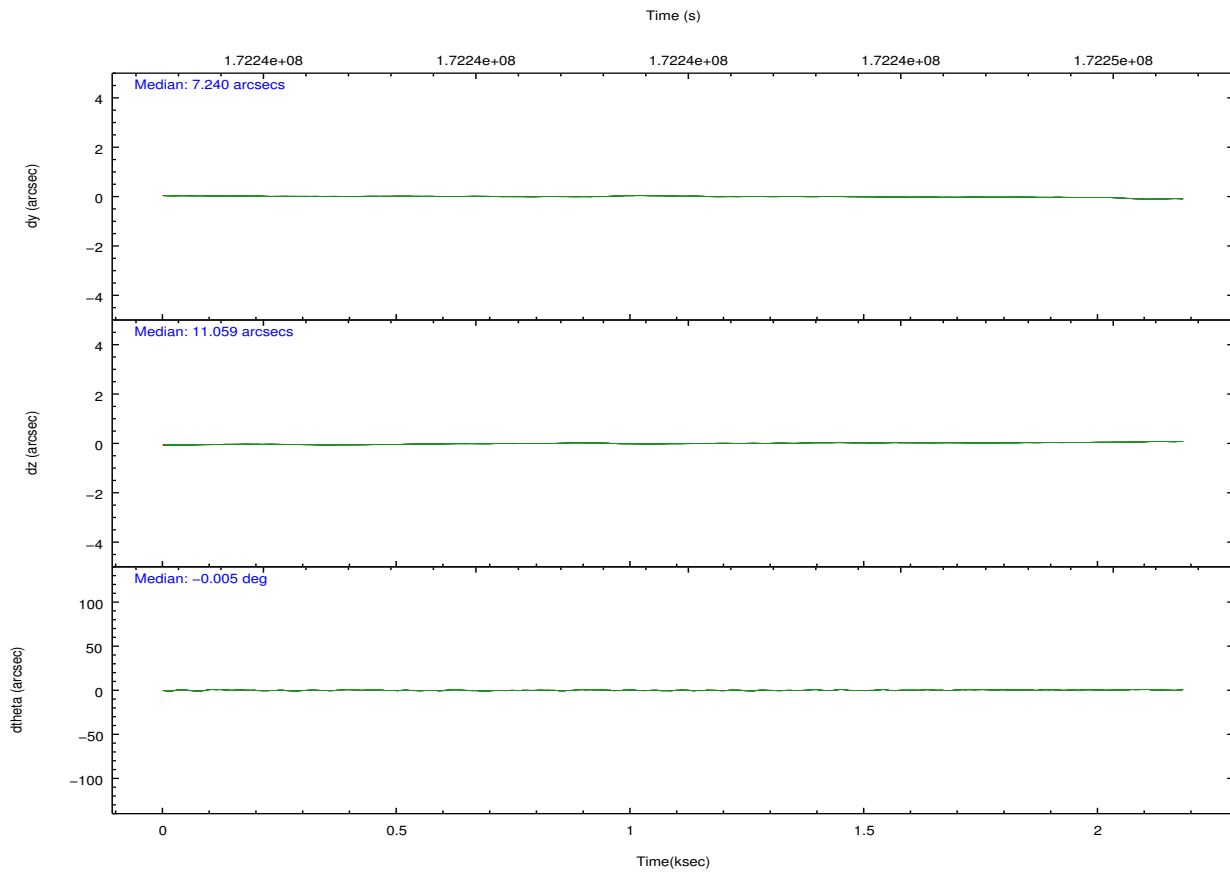
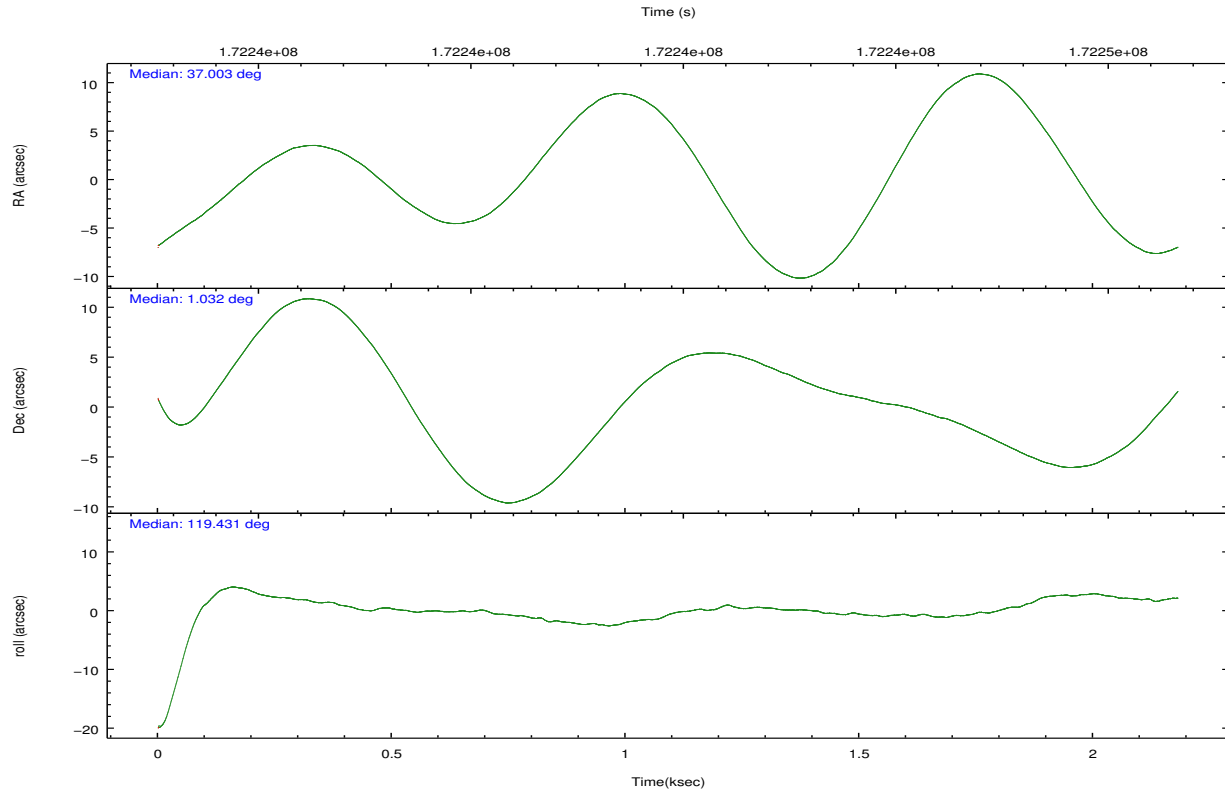
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	584	615	1629	650	887	952
	5%	5%	8%	6%	5%	6%
grade 1 events	1	8	141	2	15	17
	0%	0%	0%	0%	0%	0%
grade 2 events	252	239	2688	259	1606	658
	2%	2%	14%	2%	9%	4%
grade 3 events	118	122	481	115	707	286
	1%	1%	2%	1%	4%	1%
grade 4 events	132	127	452	127	690	295
	1%	1%	2%	1%	4%	1%
grade 5 events	420	453	1227	474	1359	606
	3%	4%	6%	4%	8%	3%
grade 6 events	228	208	4758	242	4167	745
	2%	1%	25%	2%	25%	4%
grade 7 events	9106	8885	7402	8636	7108	12088
	83%	83%	39%	82%	42%	77%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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
[deg] Pointing RA	37.026870	37.00314766059208	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.018061	1.0316208086368	Alternating exposures requested	N	N
[deg] Pointing Roll	119.278742	119.43566093095	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	172243568.184000	172242785.81498			
Observation start date	2003-06-17T13:25:04	2003-06-17T13:13:05			
[s] Observation end time (MET)	172245559.184000	172245873.11511			
Observation end date	2003-06-17T13:58:15	2003-06-17T14:04:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect





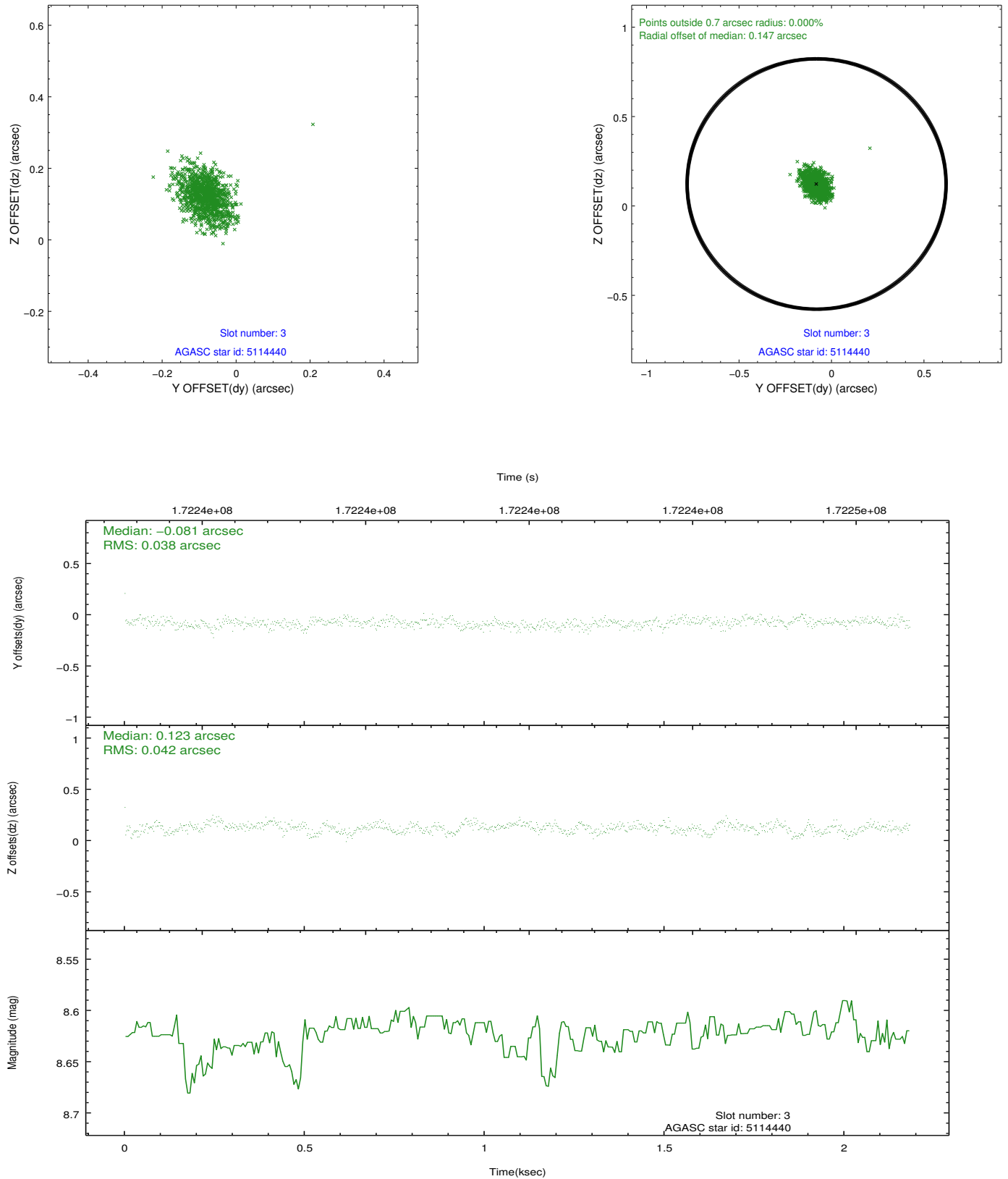
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.35	533	-0.033	-0.003	0.006	0.010	0.000000	0.000000	-760.00	-1732.35
1	FID	ACIS-S-4	7.20	533	0.033	0.017	0.005	0.009	0.000000	0.000000	2151.96	173.11
2	FID	ACIS-S-5	7.23	533	-0.031	-0.005	0.006	0.010	0.000000	0.000000	-1809.03	170.09
3	GUIDE	5114440	8.62	1065	-0.081	0.123	0.059	0.099	37.095498	1.481540	1334.22	-1030.98
4	GUIDE	5115264	8.58	1065	-0.245	-0.080	0.059	0.094	36.340664	1.374130	2326.82	1526.30
5	GUIDE	5116480	9.30	1064	0.152	-0.240	0.084	0.152	36.624607	0.603451	-591.72	1994.10
6	GUIDE	6034024	9.70	1064	0.071	0.233	0.115	0.188	37.505848	1.160303	-396.83	-1752.12
7	GUIDE	5119056	9.56	1063	0.102	-0.043	0.105	0.179	36.799344	0.156256	-2306.19	2230.02

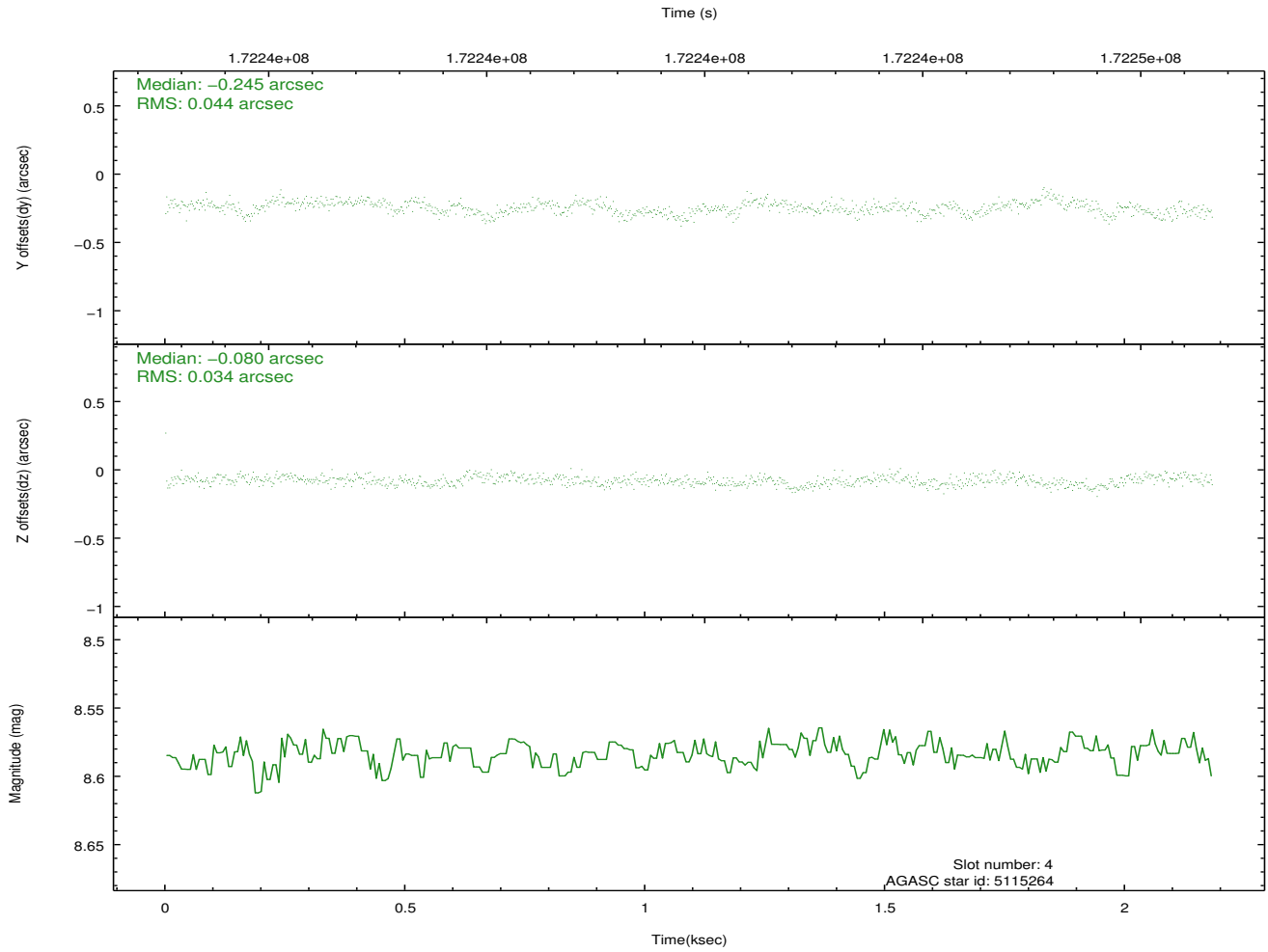
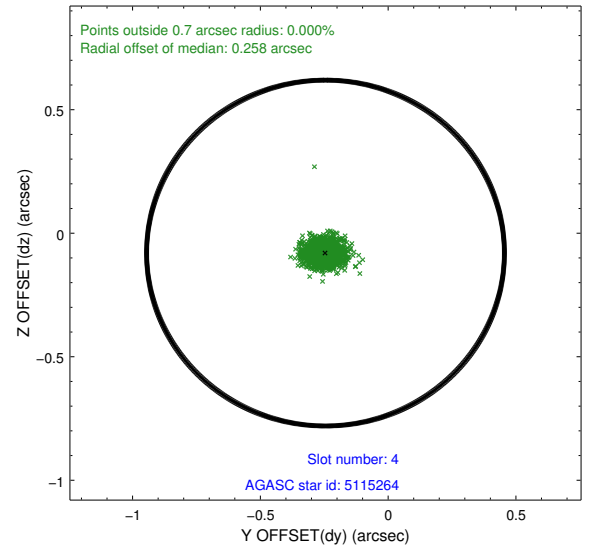
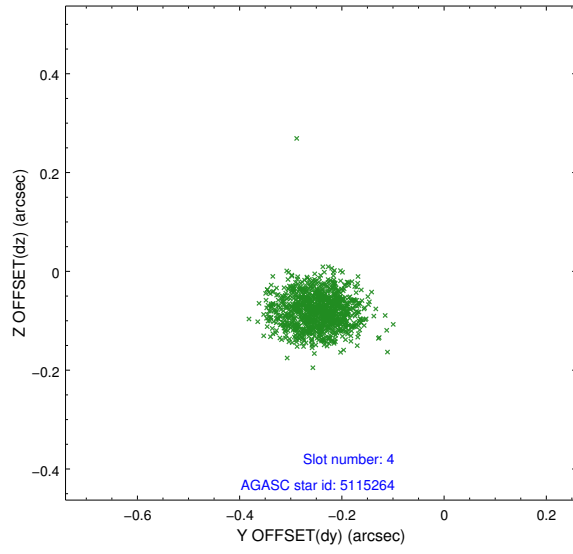


## 2.4 Star Slots

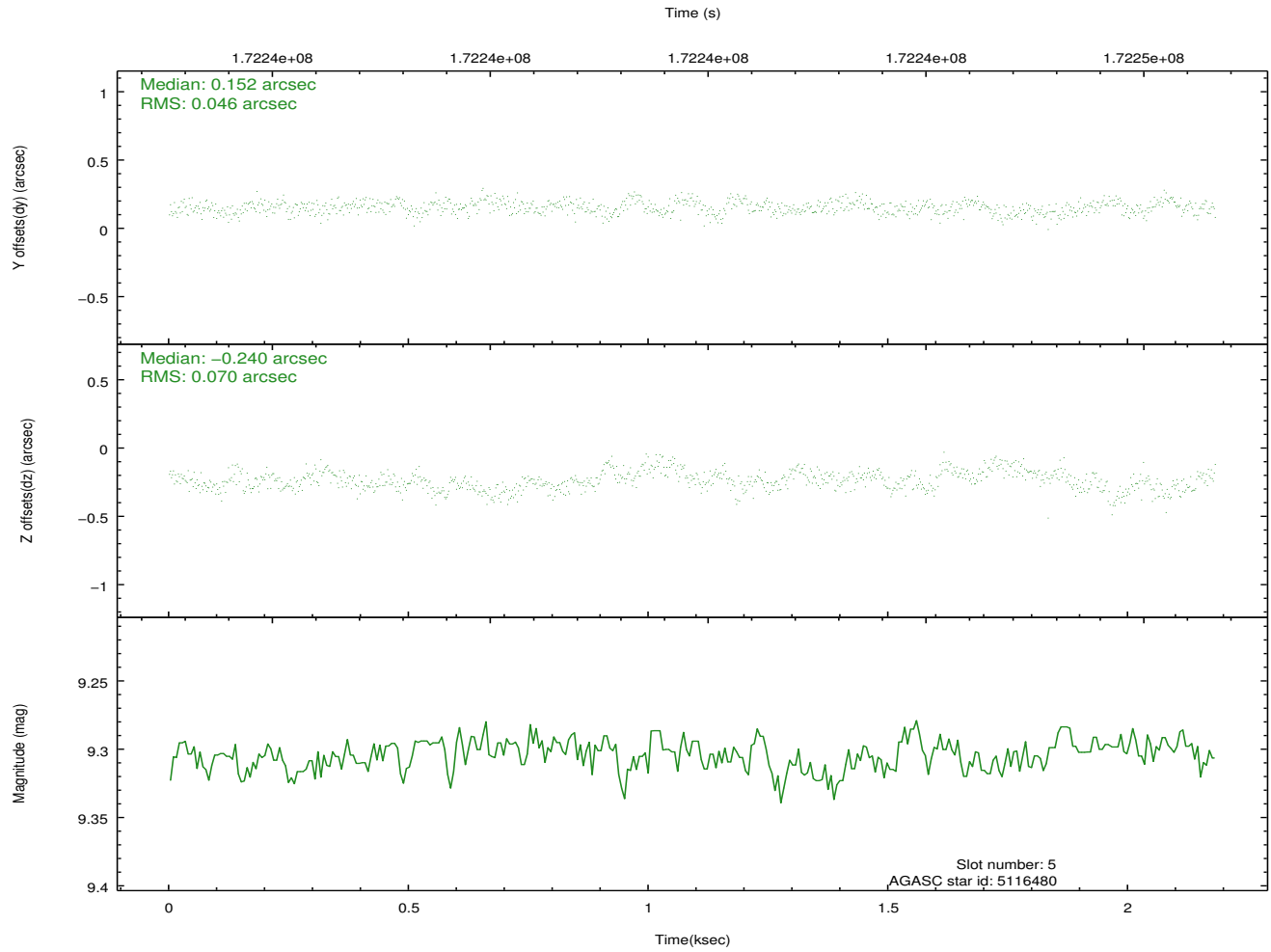
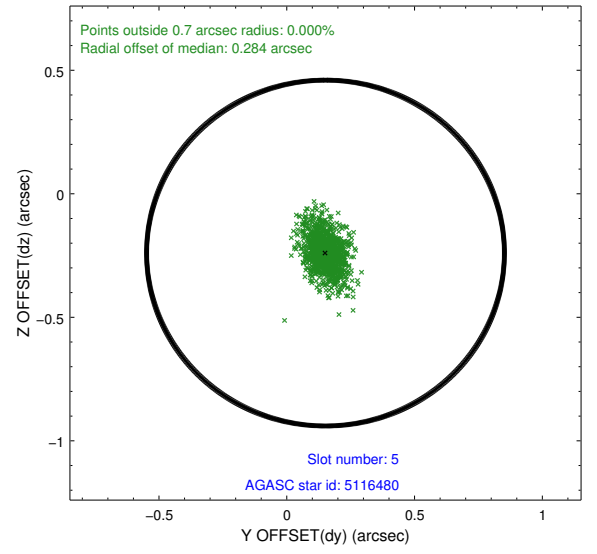
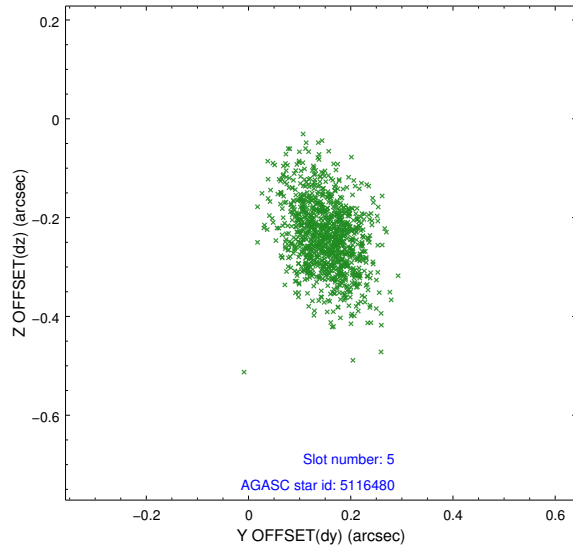
### 2.4.1 Slot 3



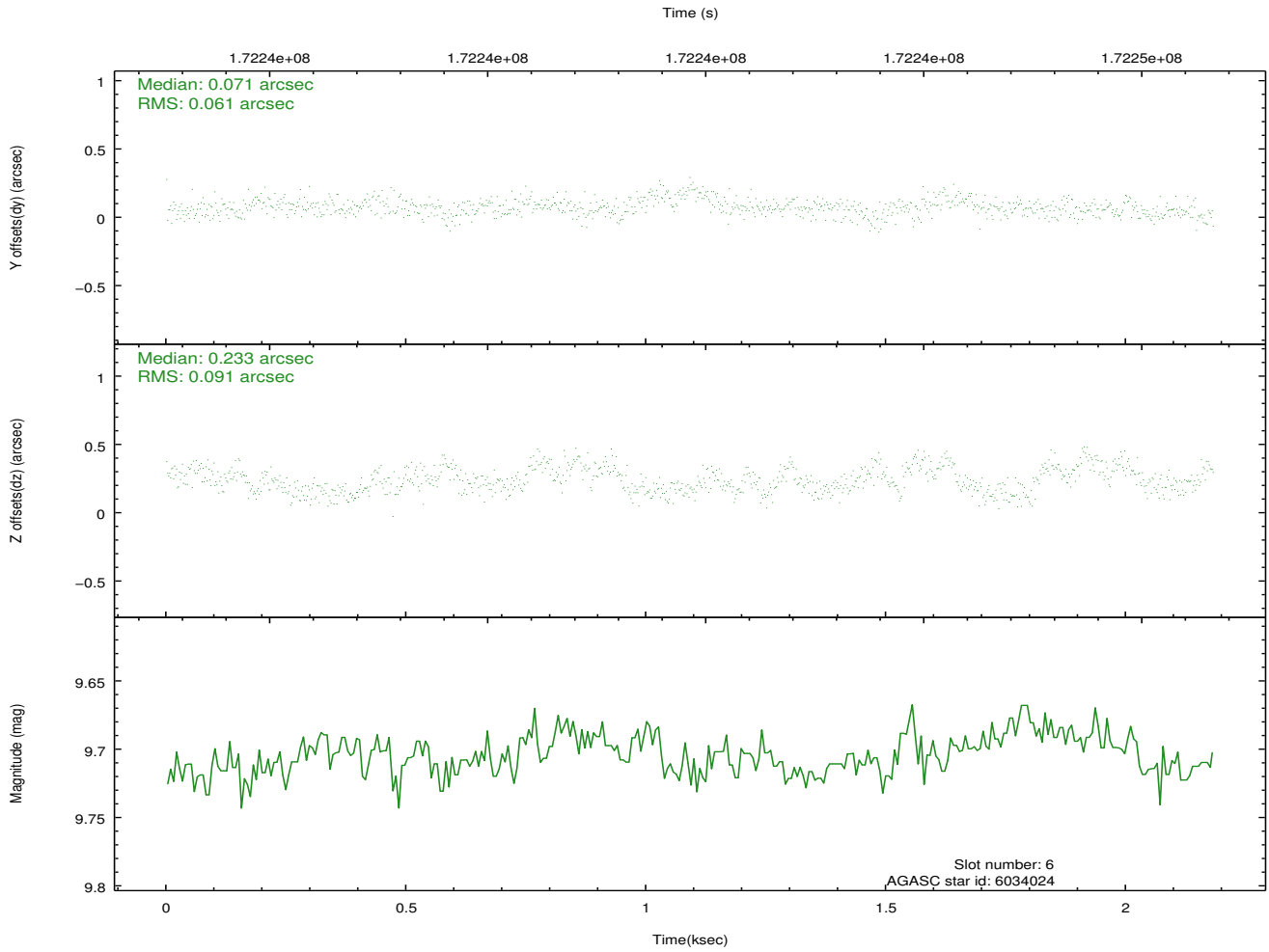
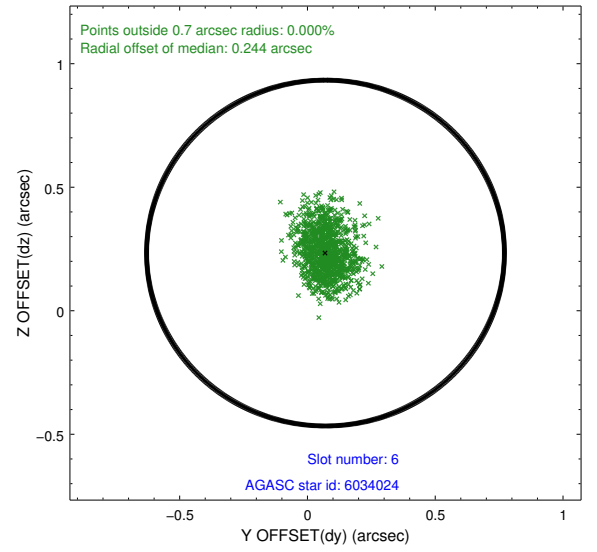
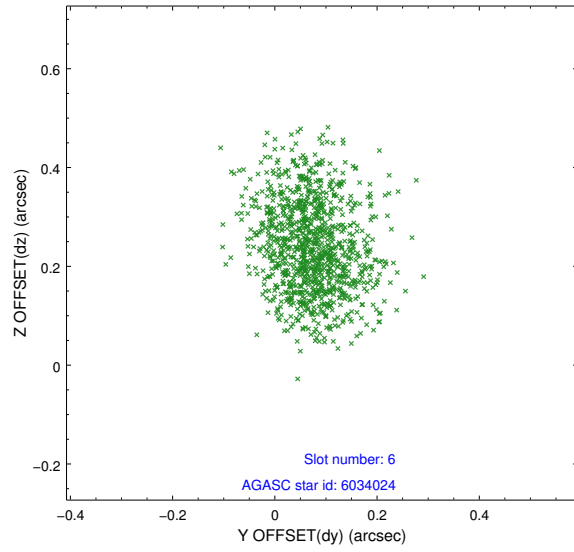
## 2.4.2 Slot 4



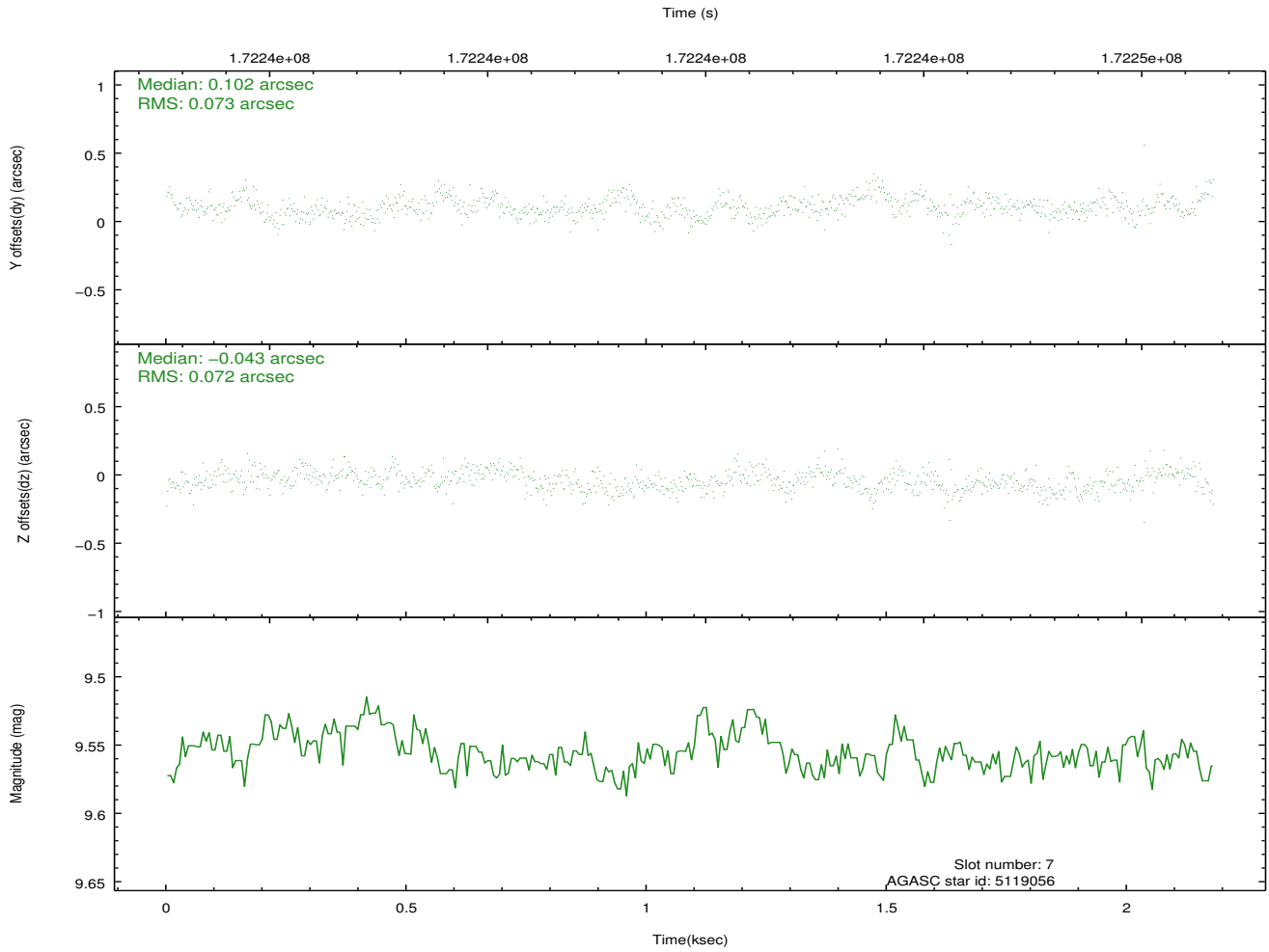
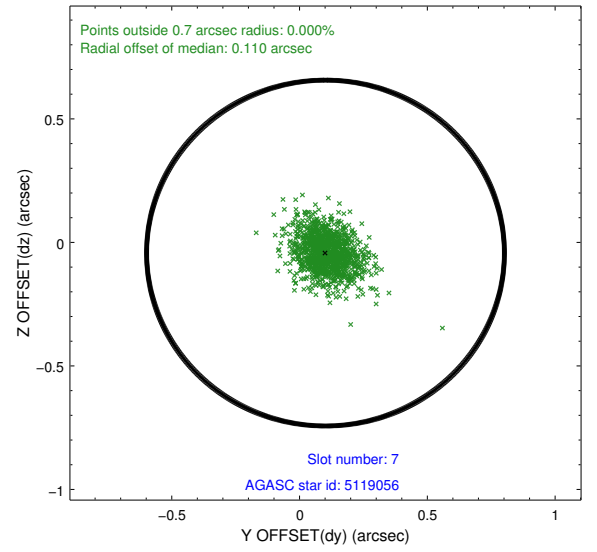
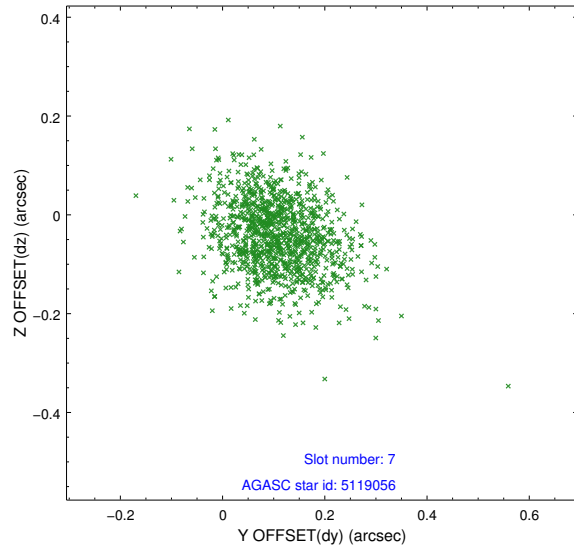
### 2.4.3 Slot 5



## 2.4.4 Slot 6

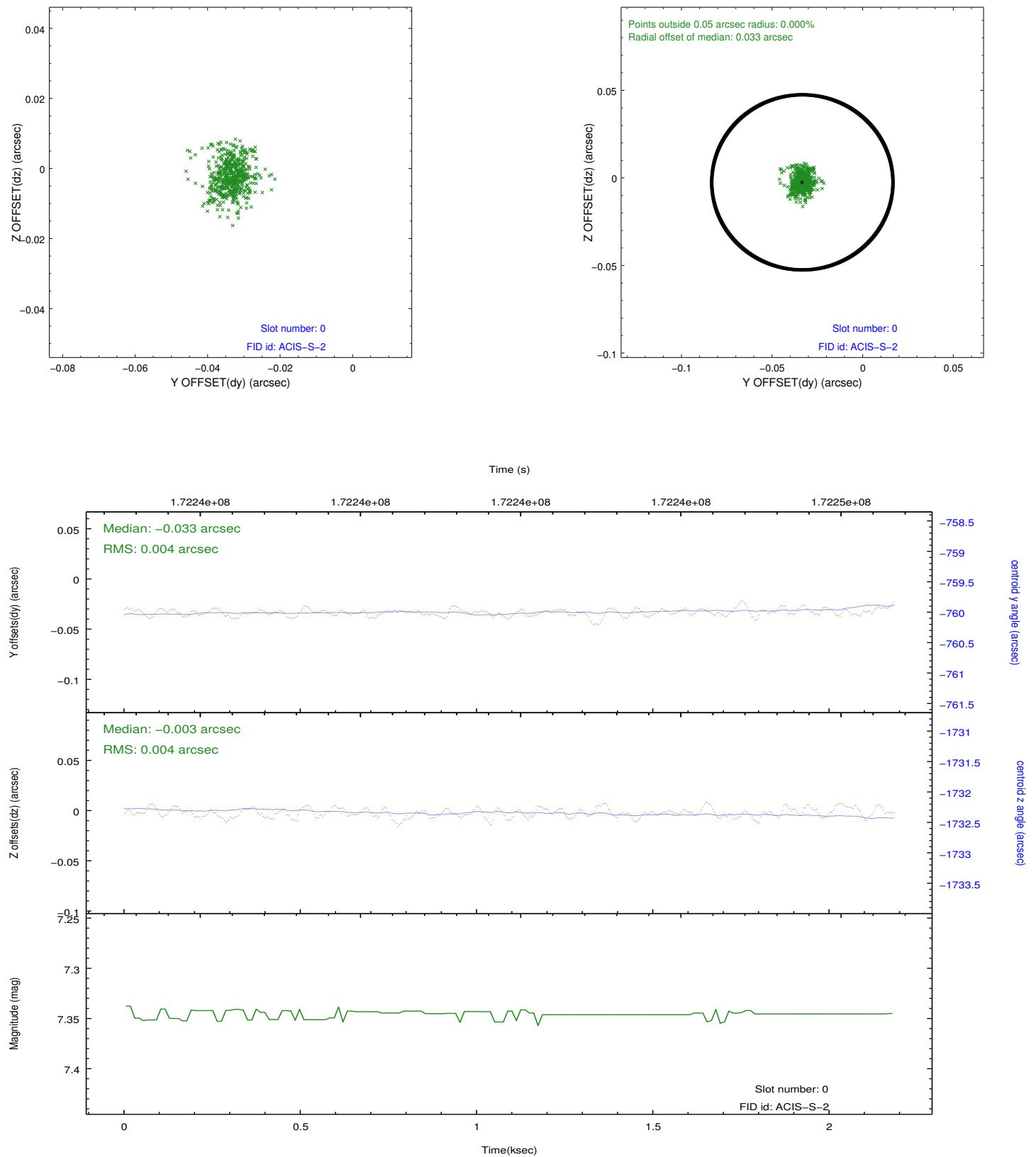


## 2.4.5 Slot 7

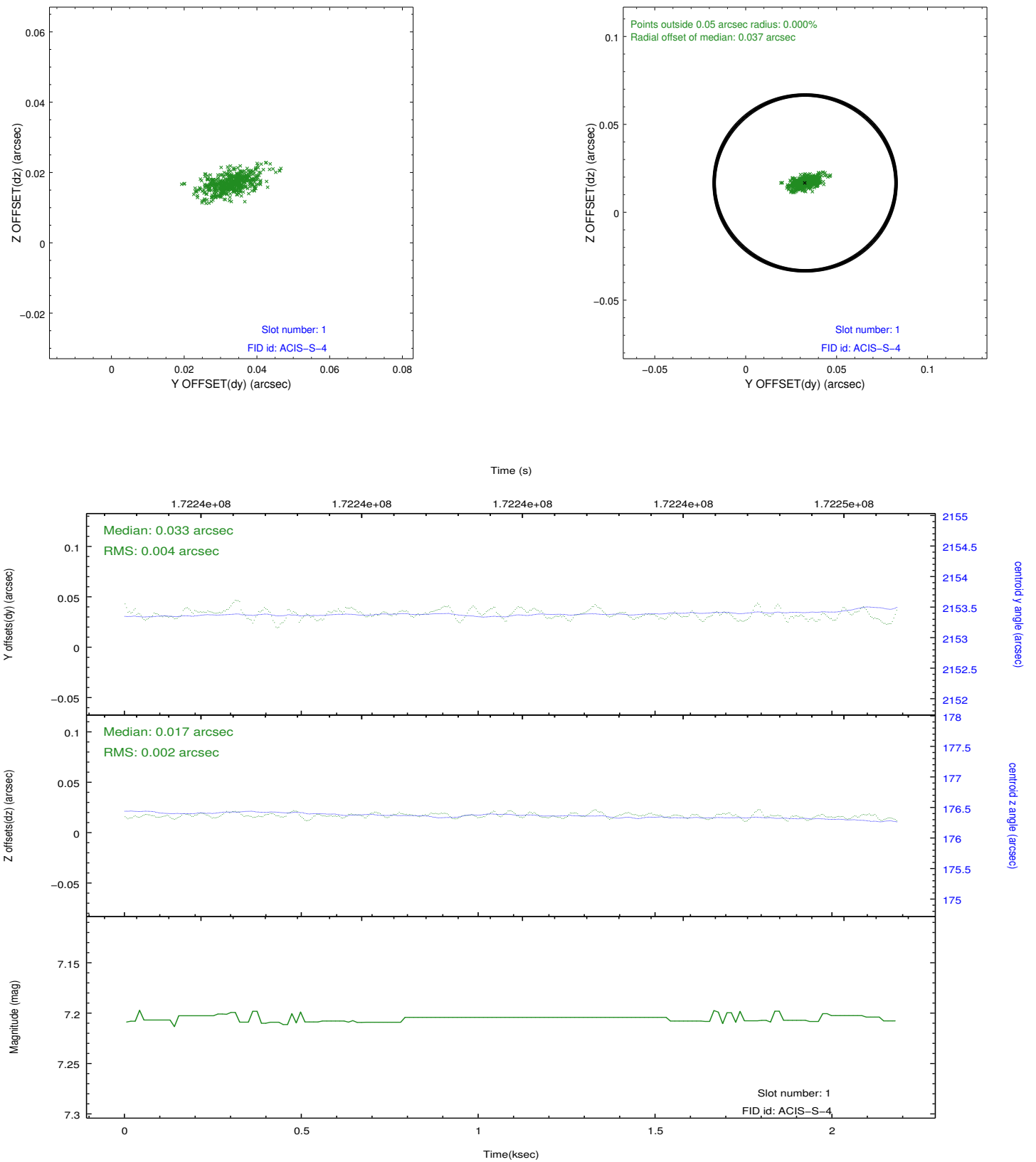


## 2.5 FID Slots

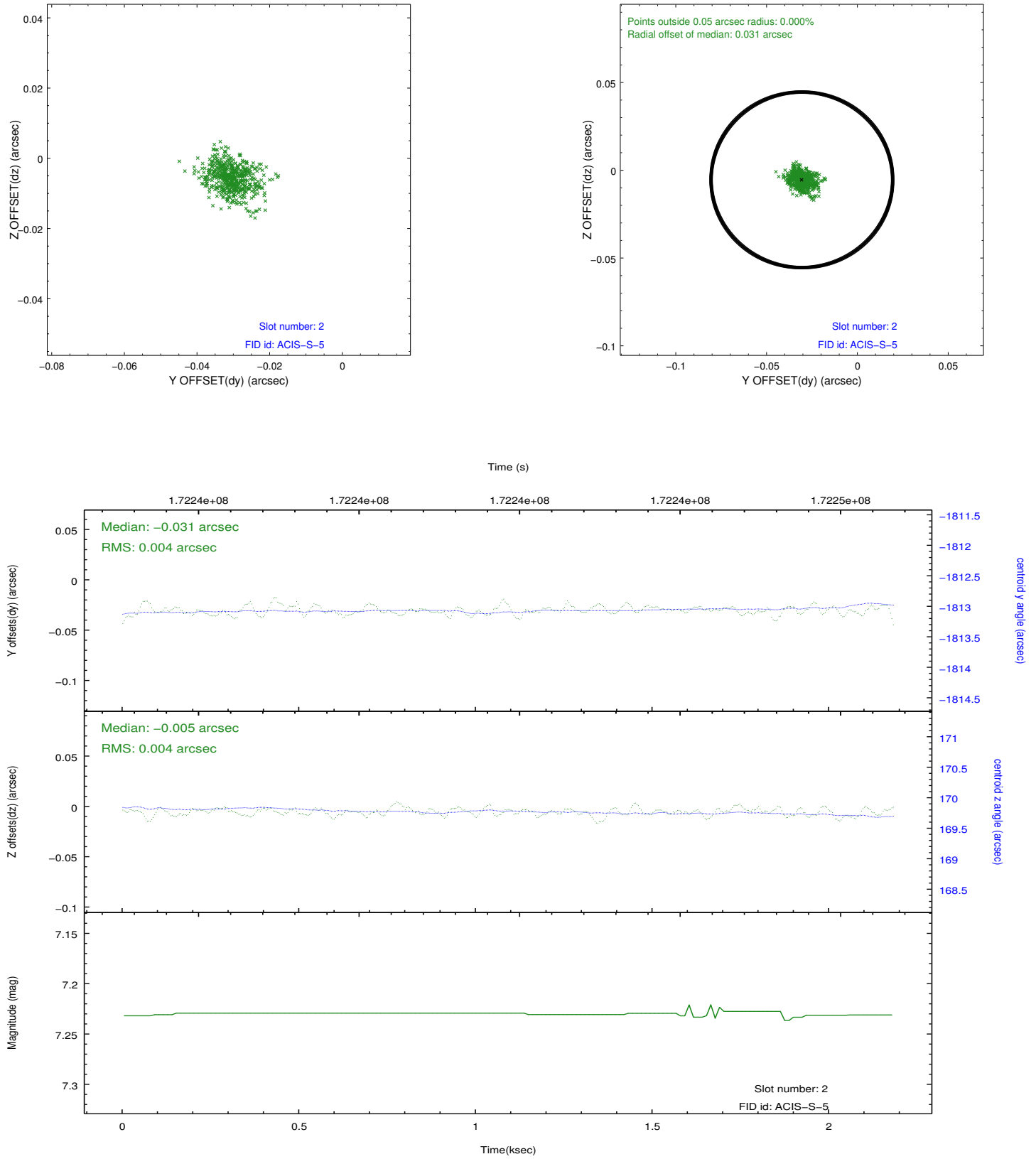
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.75

### A.2 Comments

Charge time for this observation remains at previous value of 1.75 ksec.