

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6876 - L2 Version 2  
Chandra X-Ray Center

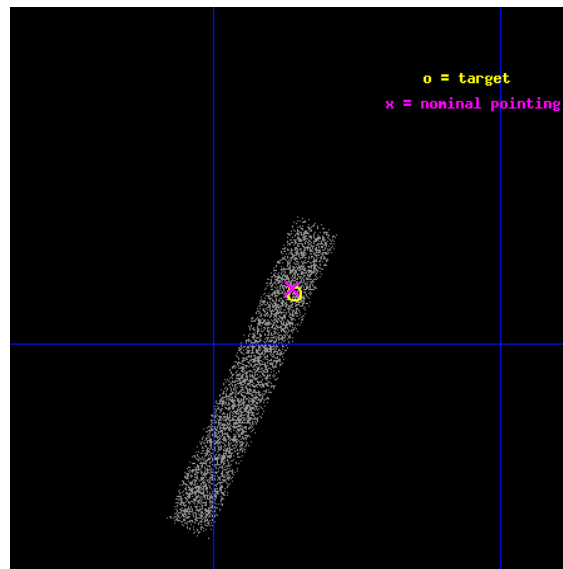
L2 Processing Date : Apr 1 2012

## 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

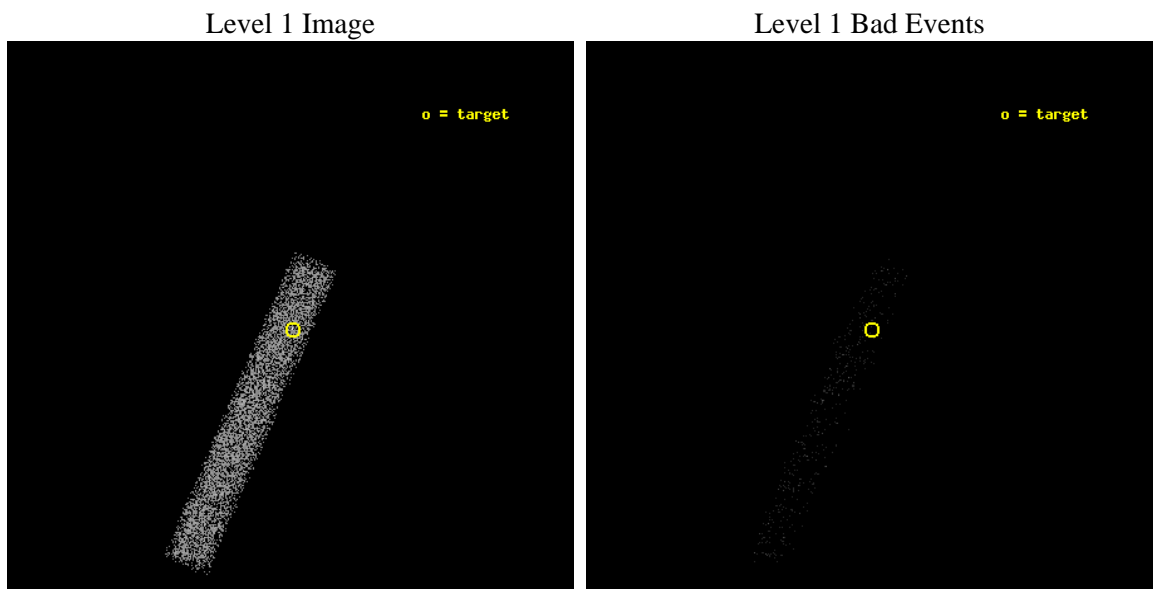
seq_num	701294	Sequence number
obs_id	6876	Observation id
title	Alpha Element Enrichment in Damped Lyman Alpha Absorbers: Survey for New Targets	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	Q2353-0028	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	358.34	Observer's specified target RA [deg]
dec_targ	-0.47825	Observer's specified target Dec [deg]
ra_nom	358.34102290132	Nominal RA [deg]
dec_nom	-0.47633615874048	Nominal Dec [deg]
roll_nom	113.41618546859	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3144.8000468314	Sum of GTIs [s]
liveltime	2852.167646319	Livetime [s]
ontime7	3144.8000468314	Sum of GTIs [s]
l2events	5415	Number of level 2 events



## 2 OBI

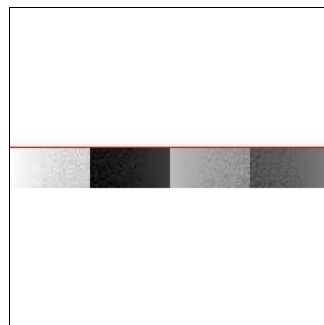
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3144.8000468314	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	3144.8000468314	Sum of GTIs [s]
date	2012-04-01T04:29:27	Date and time of file creation	l1events	10909	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

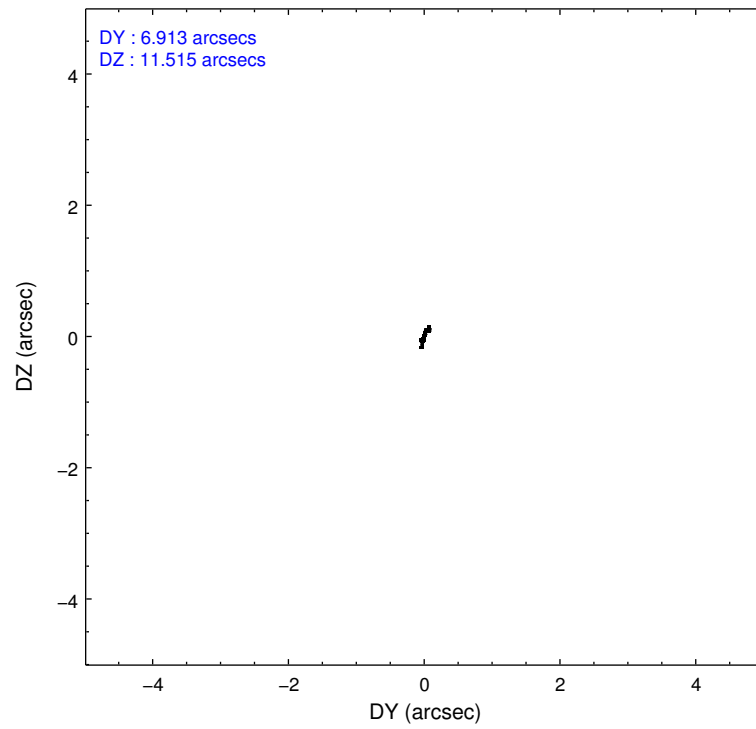
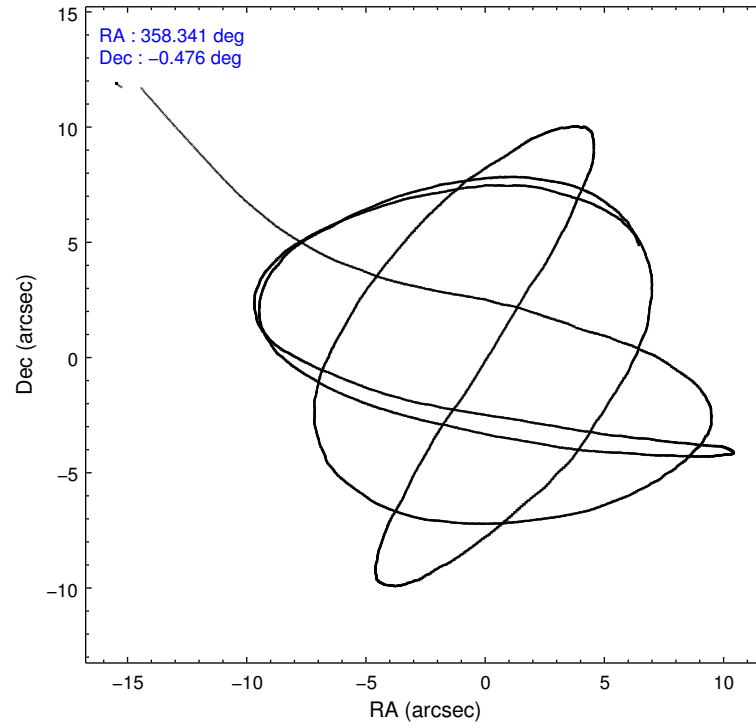
	<b>ccd 7</b>
level 1 events	10909
rejected events	5368
rejected %	49%

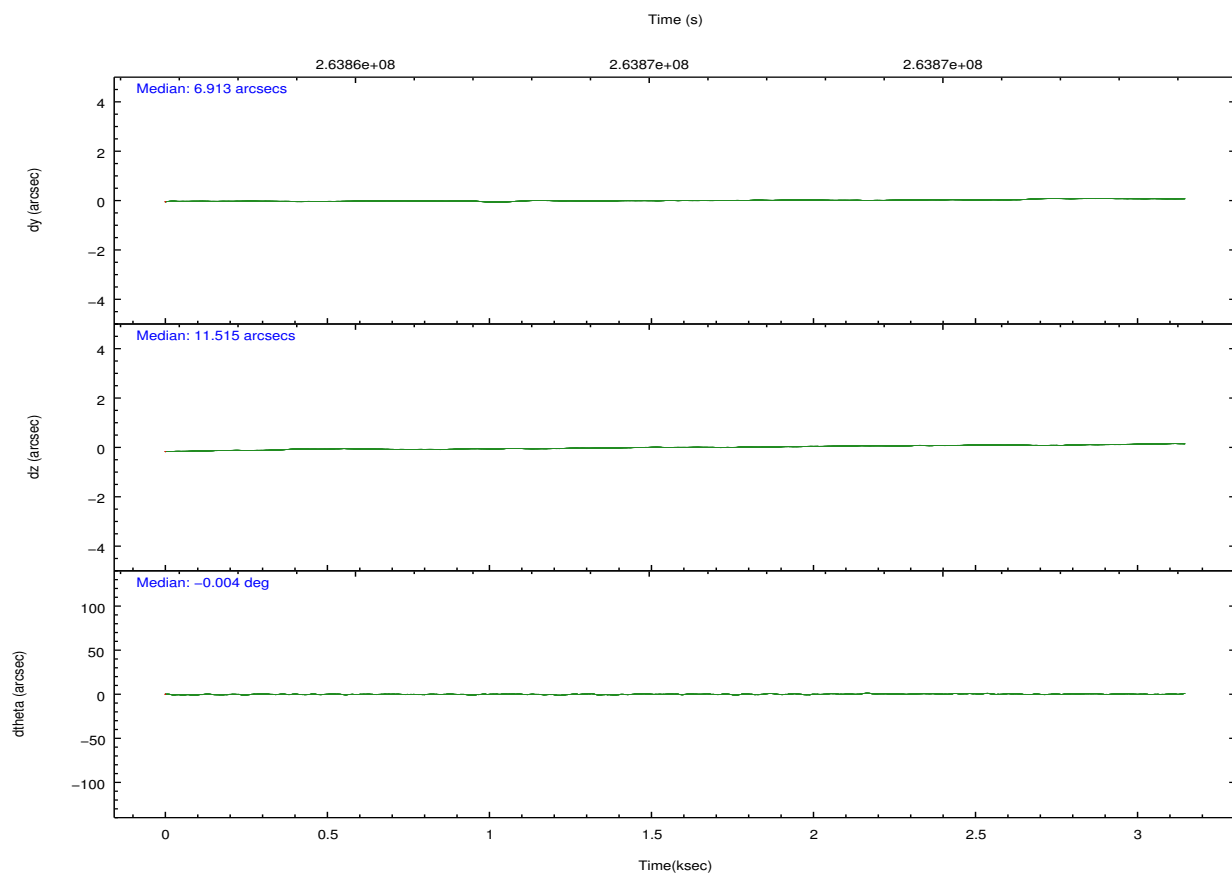
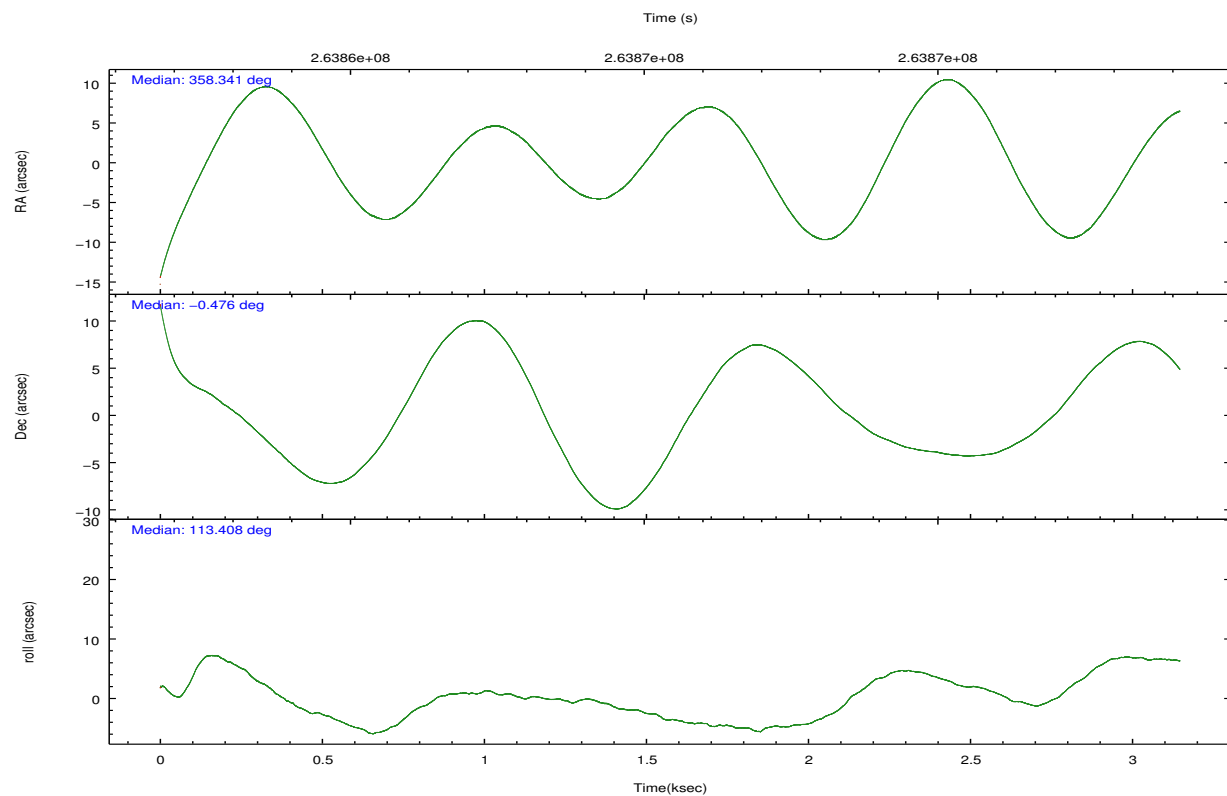
	<b>ccd 7</b>
grade 0 events	655
	6%
grade 1 events	8
	0%
grade 2 events	1161
	10%
grade 3 events	624
	5%
grade 4 events	597
	5%
grade 5 events	653
	5%
grade 6 events	4151
	38%
grade 7 events	3060
	28%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	358.363126	358.3410229013172	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-0.492381	-0.4763361587404764	Subarray start row	449	449
[deg] Pointing Roll	113.259756	113.4161854685864	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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	263864657.184000	263863551.64612			
Observation start date	2006-05-12T23:43:12	2006-05-12T23:25:51			
[s] Observation end time (MET)	263867657.184000	263867885.85882			
Observation end date	2006-05-13T00:33:12	2006-05-13T00:38:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect





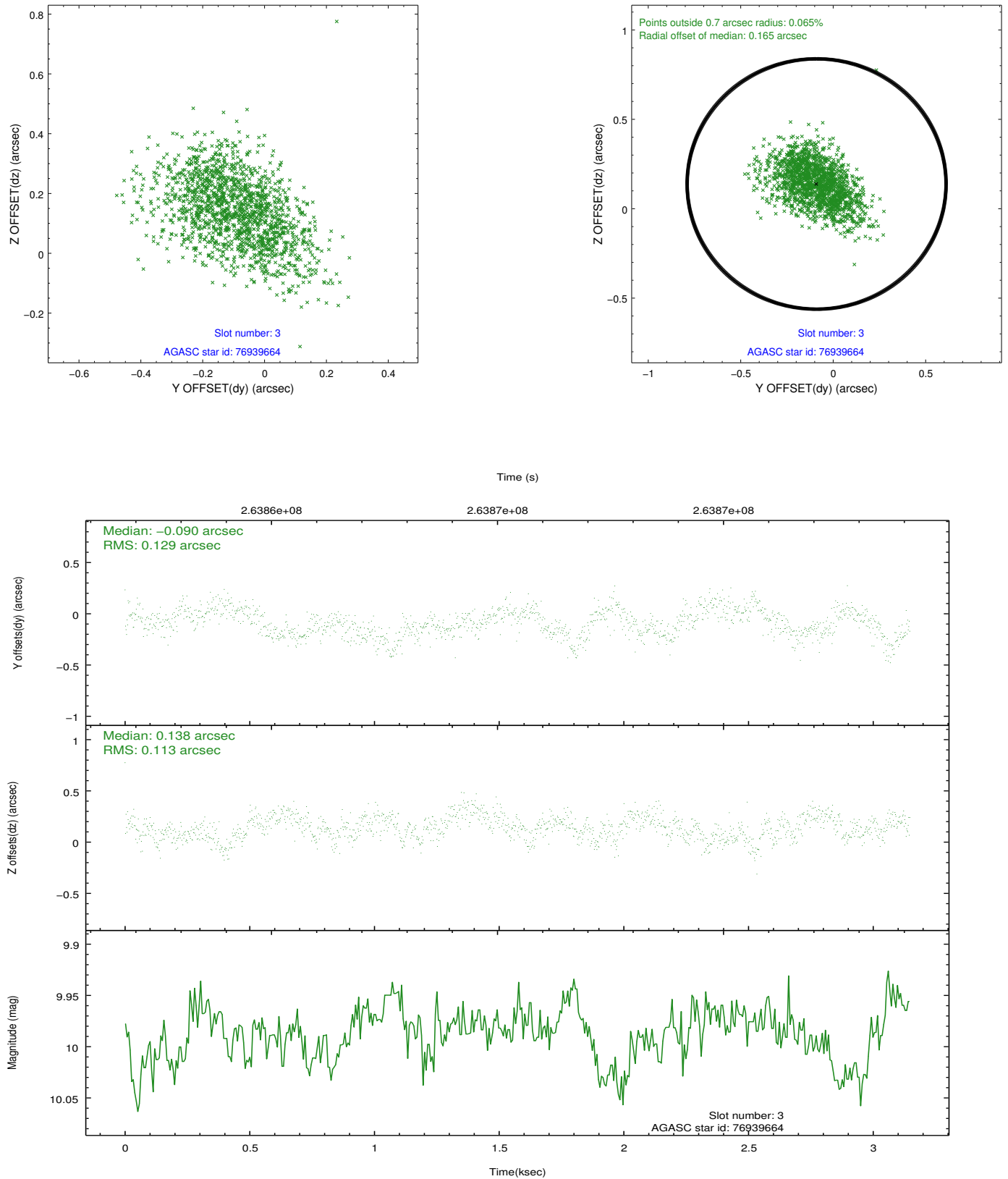
### Slot Statistics

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	768	-0.051	-0.032	0.008	0.012	0.000000	0.000000	-759.71	-1732.84
1	FID	ACIS-S-4	7.21	768	0.108	0.033	0.006	0.010	0.000000	0.000000	2152.80	173.64
2	FID	ACIS-S-5	7.23	768	-0.088	0.007	0.007	0.012	0.000000	0.000000	-1810.00	169.55
3	GUIDE	76939664	9.99	1535	-0.090	0.138	0.178	0.304	358.521033	0.226751	2153.78	-1543.90
4	GUIDE	688522200	9.92	1533	0.125	0.040	0.153	0.285	358.964663	-0.559880	-1076.83	-1894.23
5	GUIDE	688524272	10.35	1529	0.108	-0.199	0.222	0.353	358.178465	-0.808263	-783.19	1058.62
6	GUIDE	688526336	9.71	1535	0.148	-0.229	0.117	0.195	358.185662	-1.015243	-1477.82	1330.96
7	GUIDE	688526800	10.19	1535	-0.269	0.240	0.151	0.256	358.896424	-0.178986	277.22	-2207.83

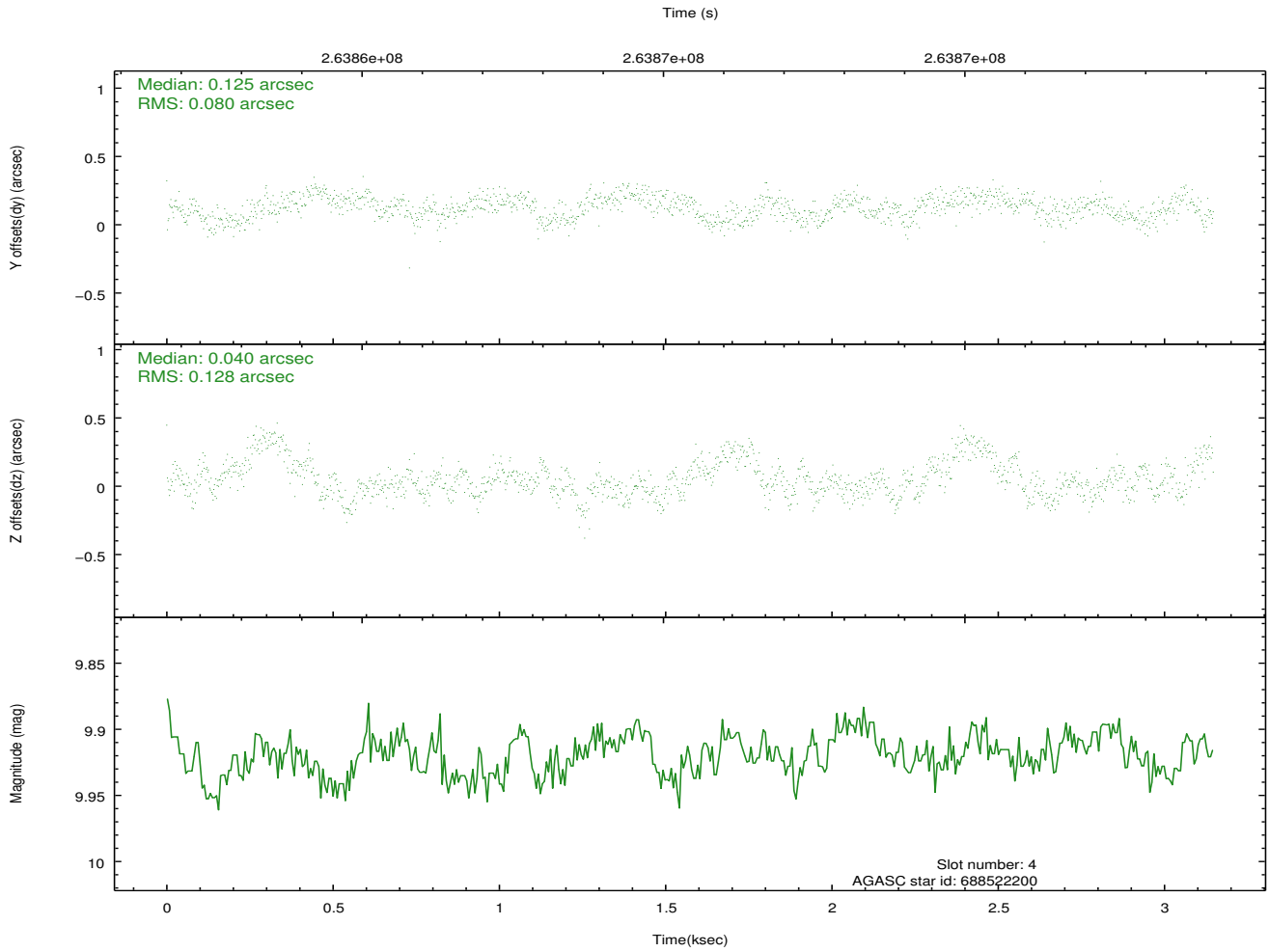
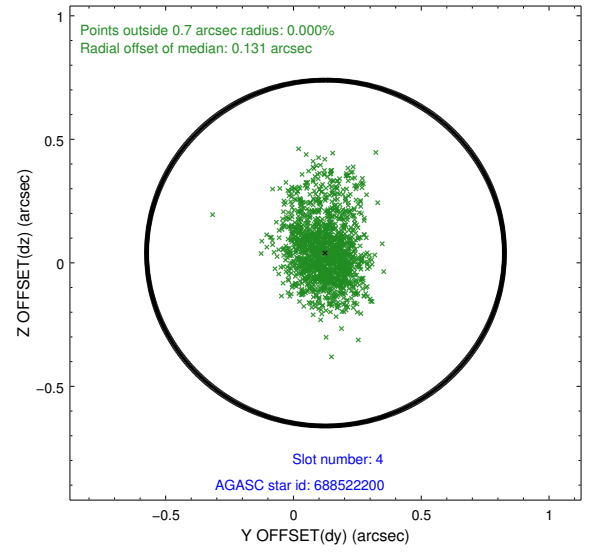
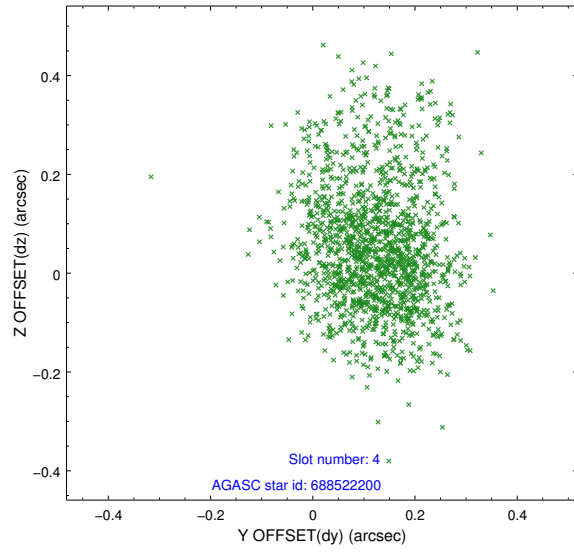


## 2.4 Star Slots

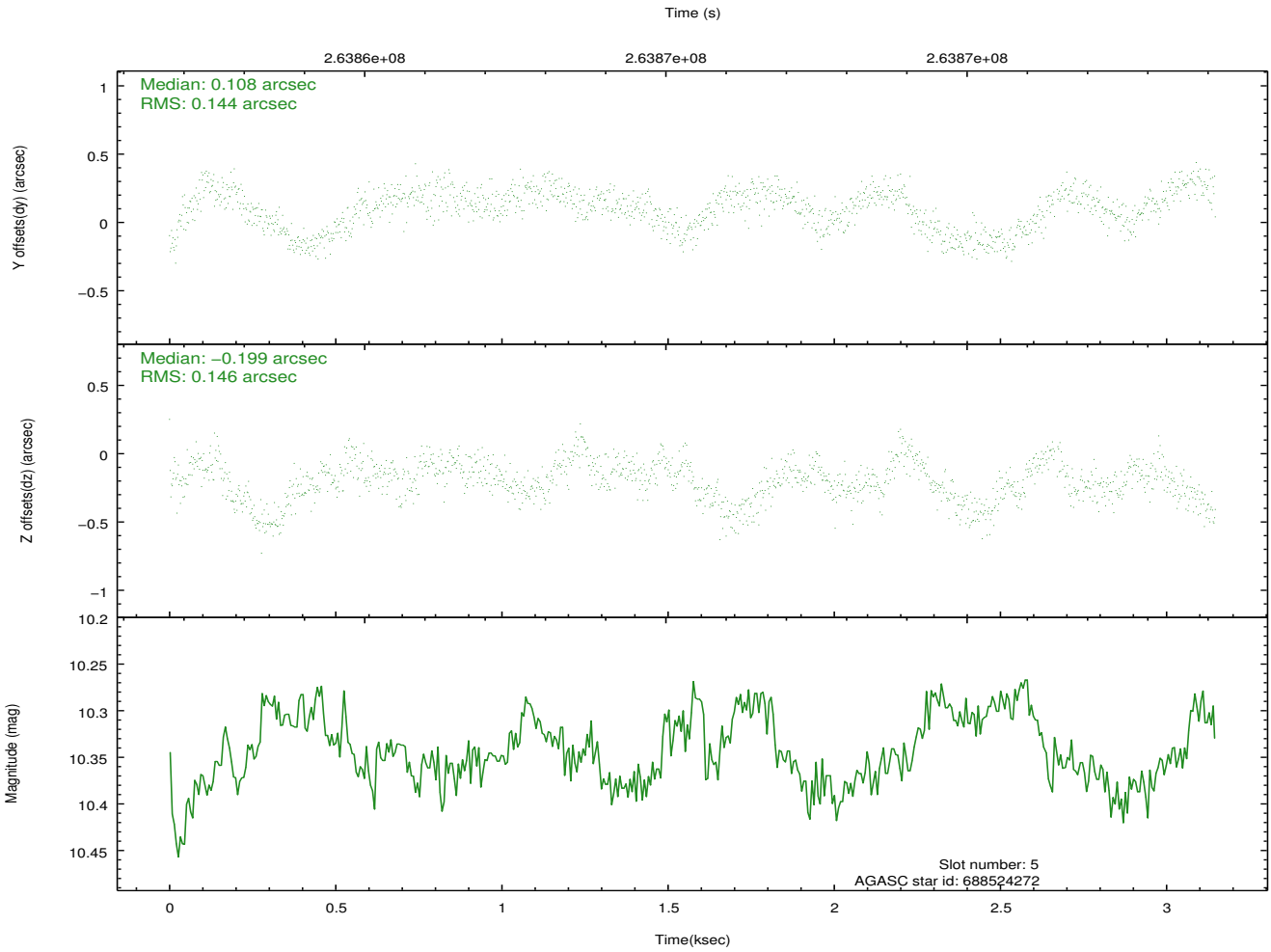
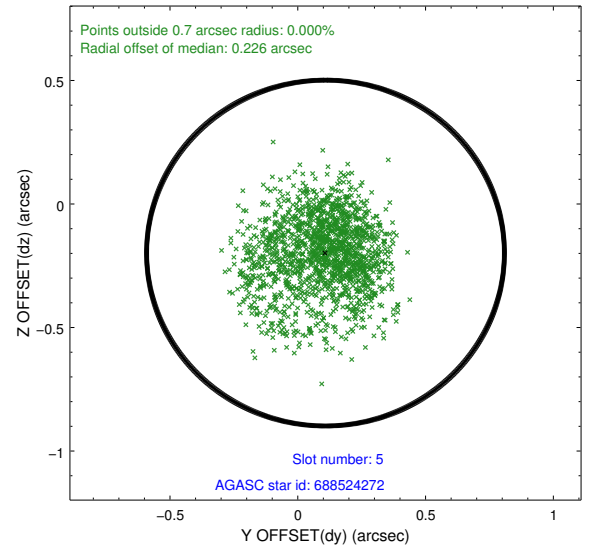
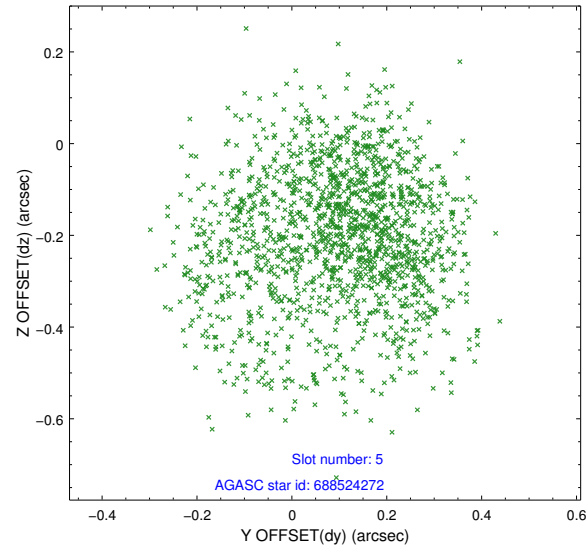
### 2.4.1 Slot 3



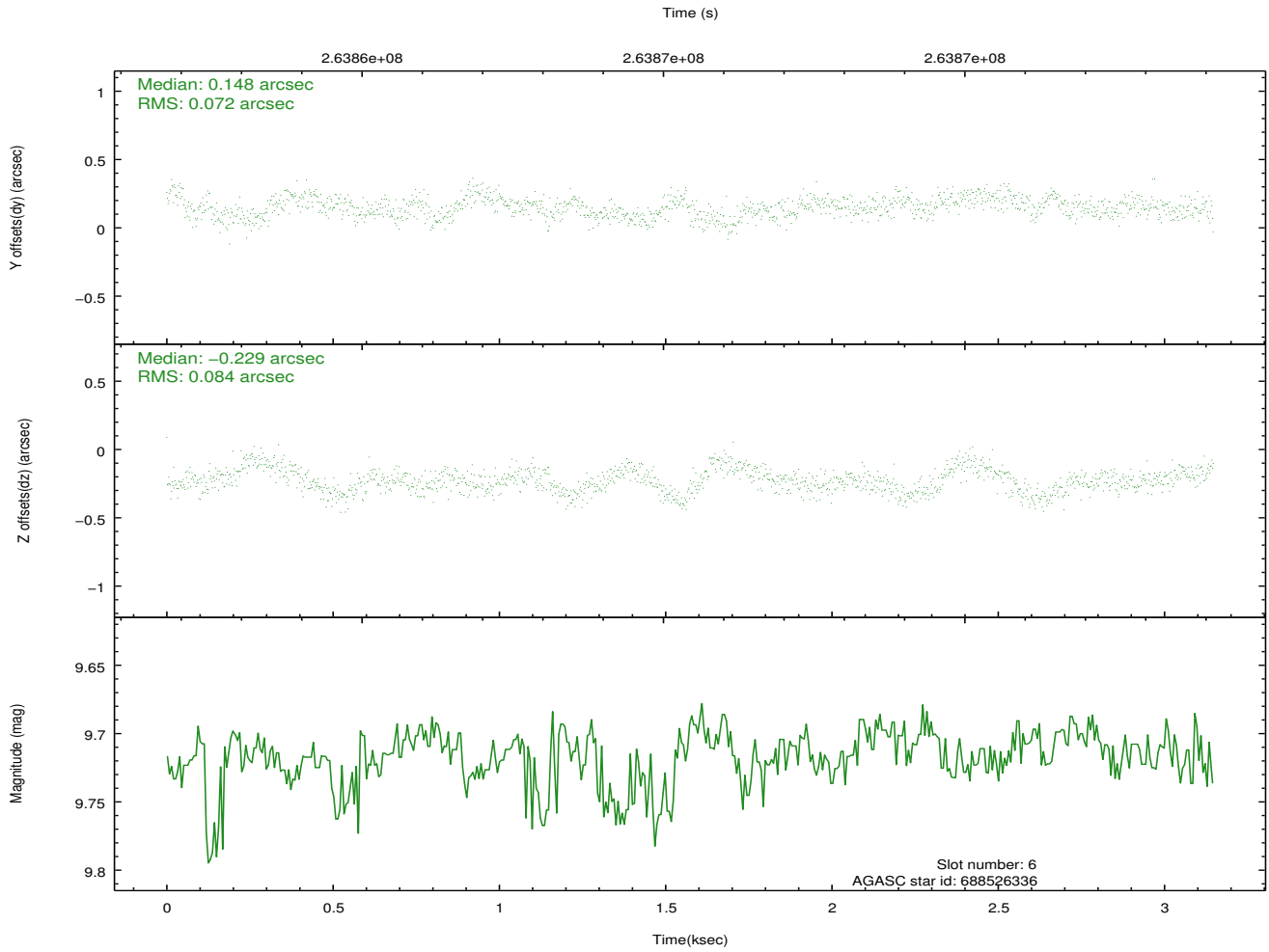
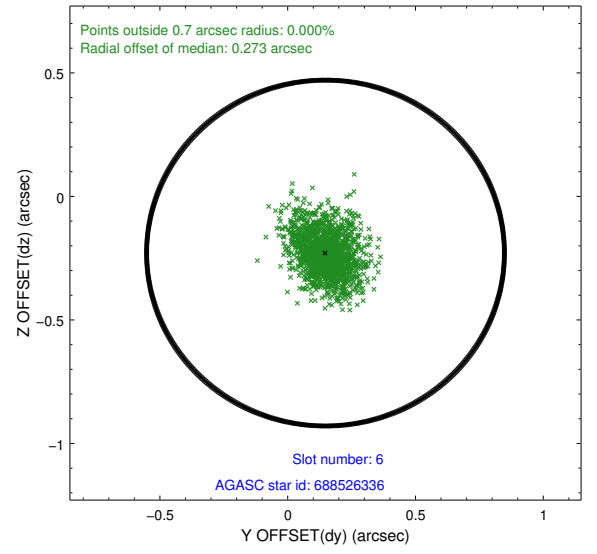
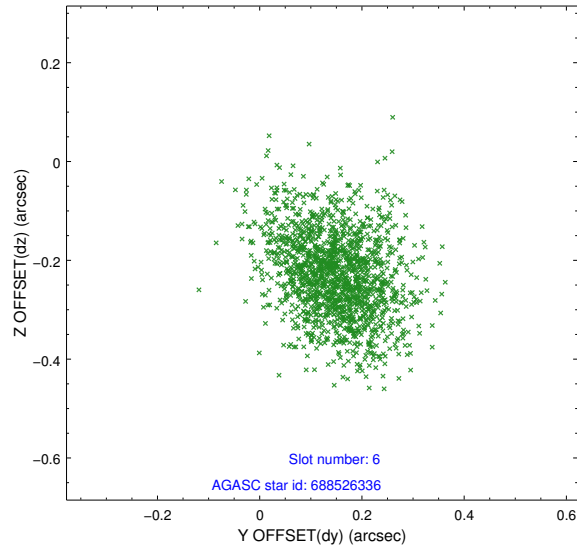
## 2.4.2 Slot 4



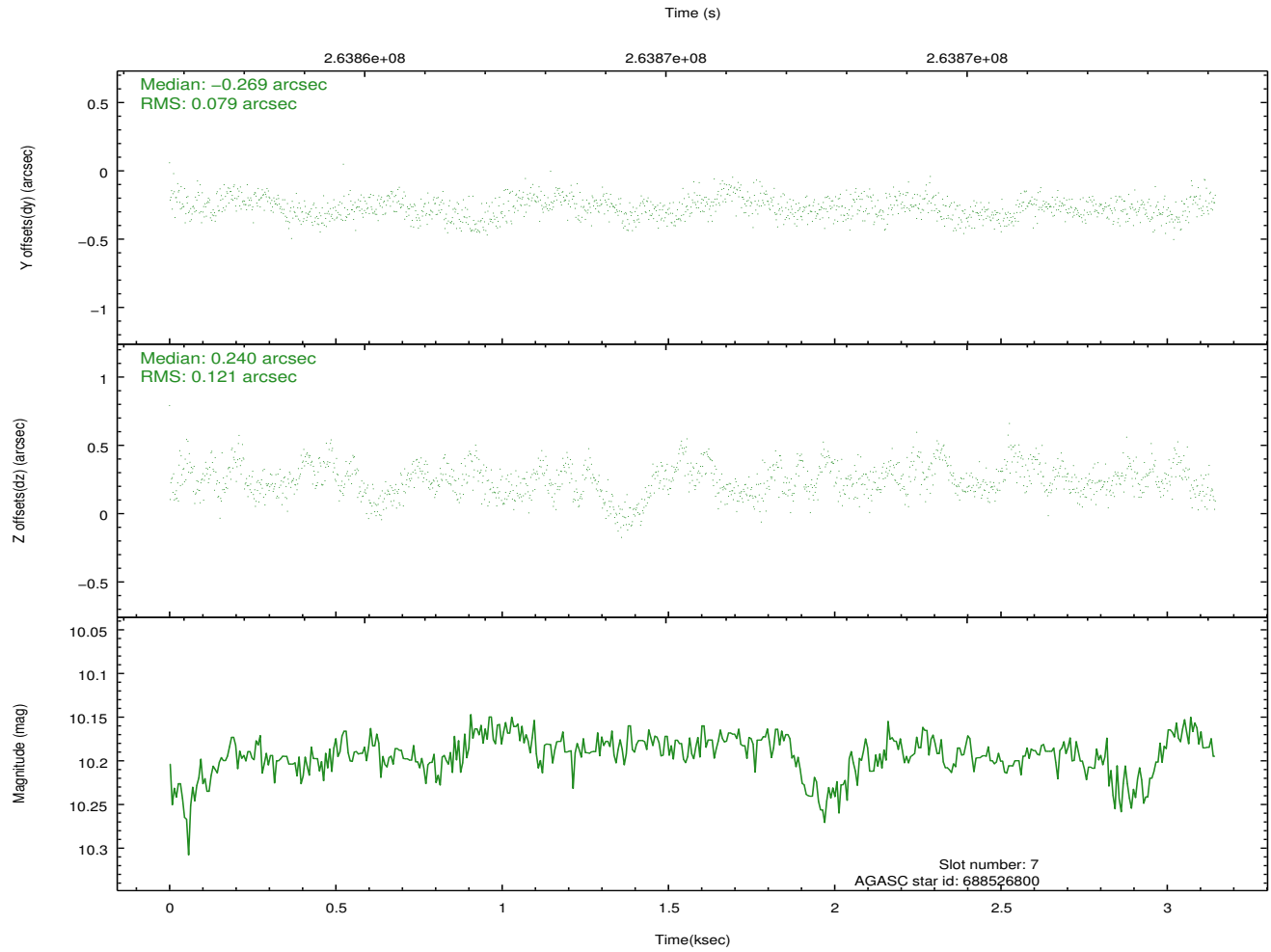
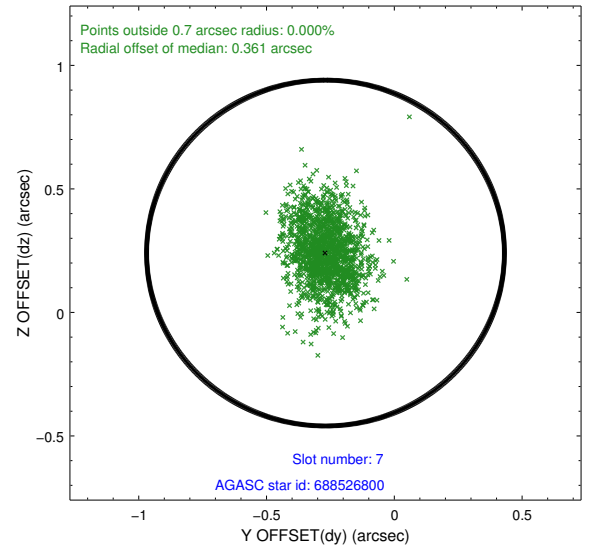
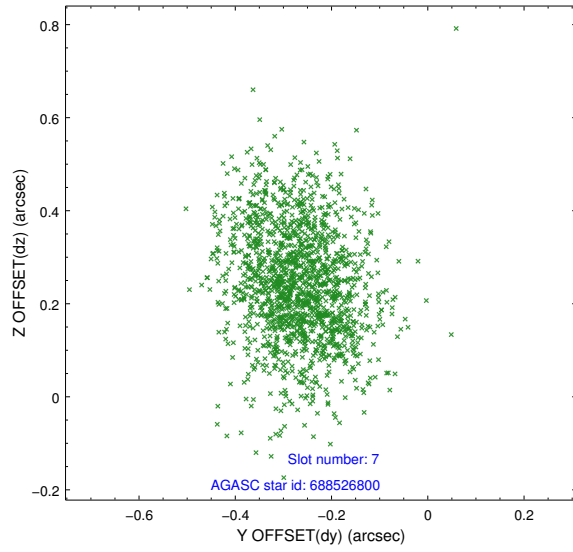
### 2.4.3 Slot 5



## 2.4.4 Slot 6

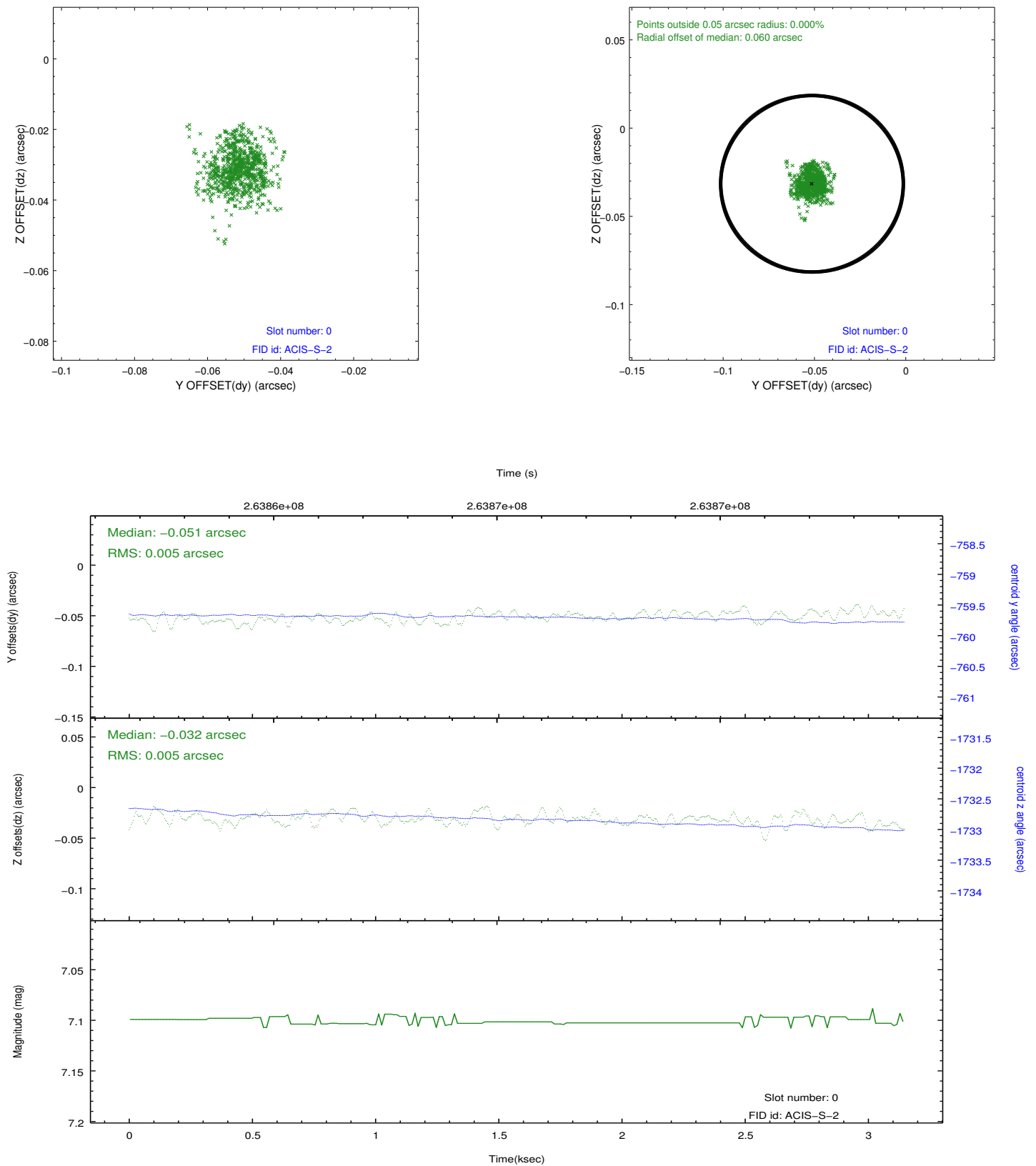


## 2.4.5 Slot 7

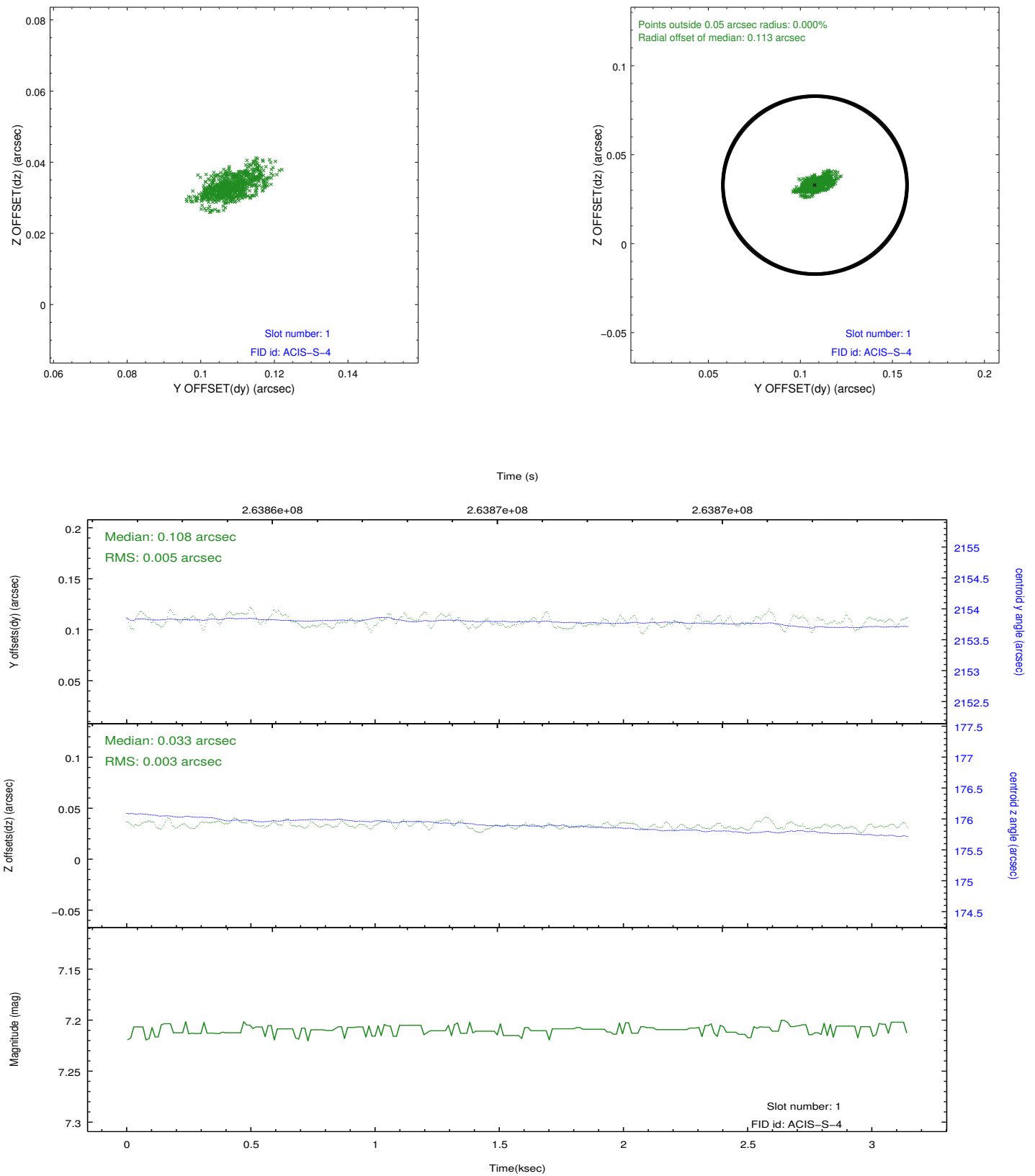


## 2.5 FID Slots

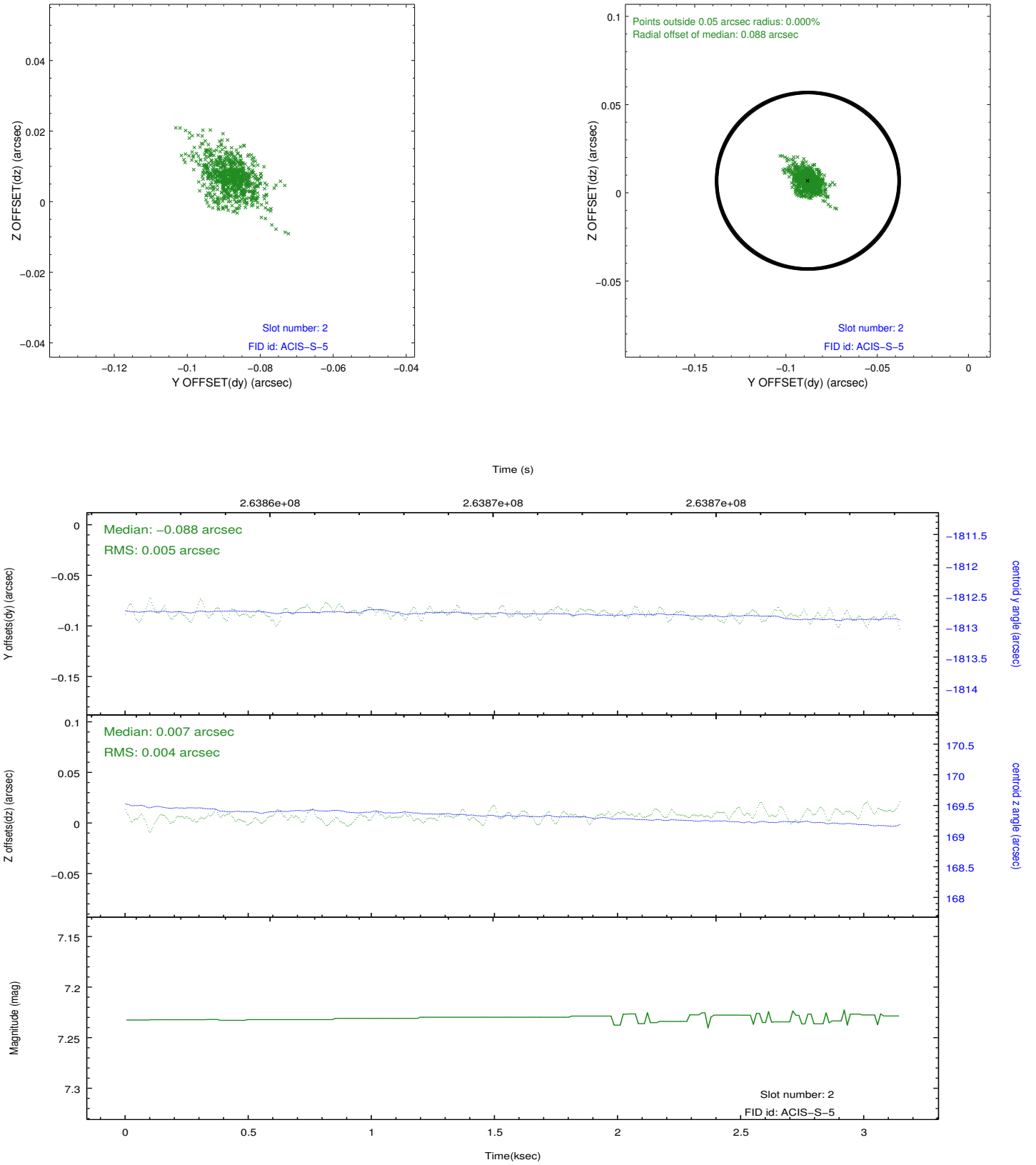
### 2.5.1 Slot 0



## 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)	2012.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.14480004

### A.2 Comments