

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7419 - L2 Version 2  
Chandra X-Ray Center

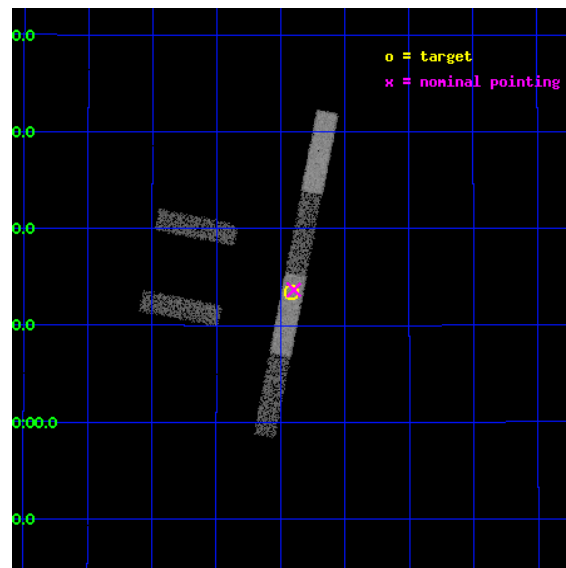
L2 Processing Date : Apr 29 2012

## 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

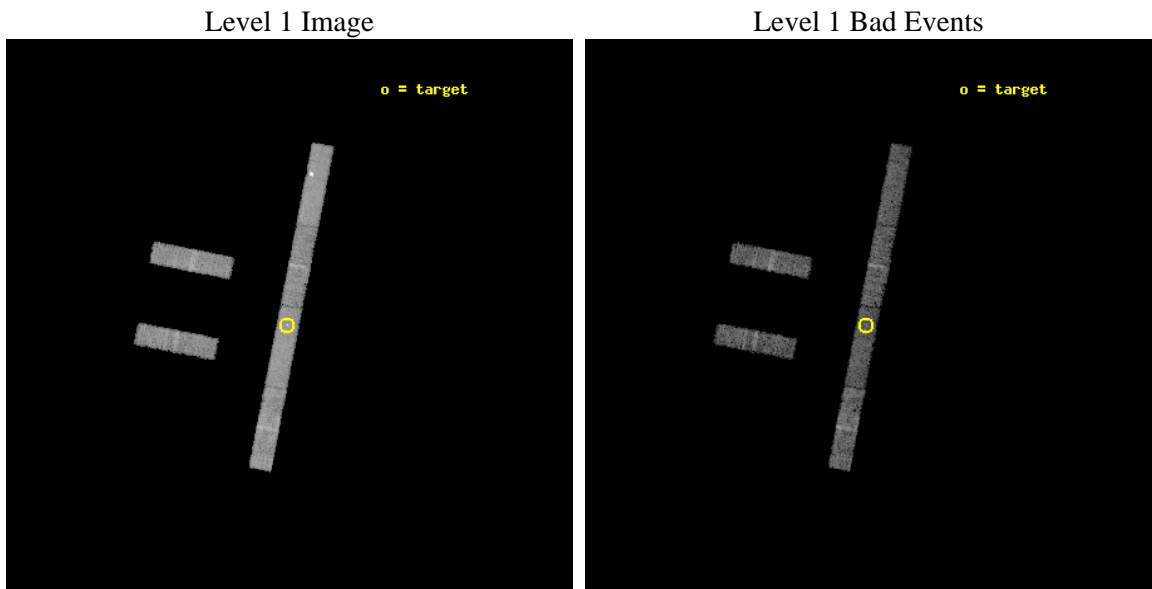
seq_num	200432	Sequence number
obs_id	7419	Observation id
title	Evolution of Magnetic Activity and the Accretion History in Taurus-Auriga Multiple Systems	Proposal title
observer	Prof. Manuel Guedel	Principal investigator
object	IT Tau	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.477917	Observer's specified target RA [deg]
dec_targ	26.224444	Observer's specified target Dec [deg]
ra_nom	68.474272429432	Nominal RA [deg]
dec_nom	26.228038243262	Nominal Dec [deg]
roll_nom	101.15824294833	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5160.1001118422	Sum of GTIs [s]
livetime	4974.5058219049	Livetime [s]
ontime2	5160.1001118422	Sum of GTIs [s]
ontime3	5160.1001118422	Sum of GTIs [s]
ontime5	5160.1001118422	Sum of GTIs [s]
ontime6	5160.1001118422	Sum of GTIs [s]
ontime7	5160.1001118422	Sum of GTIs [s]
ontime8	5160.1001118422	Sum of GTIs [s]
l2events	23381	Number of level 2 events



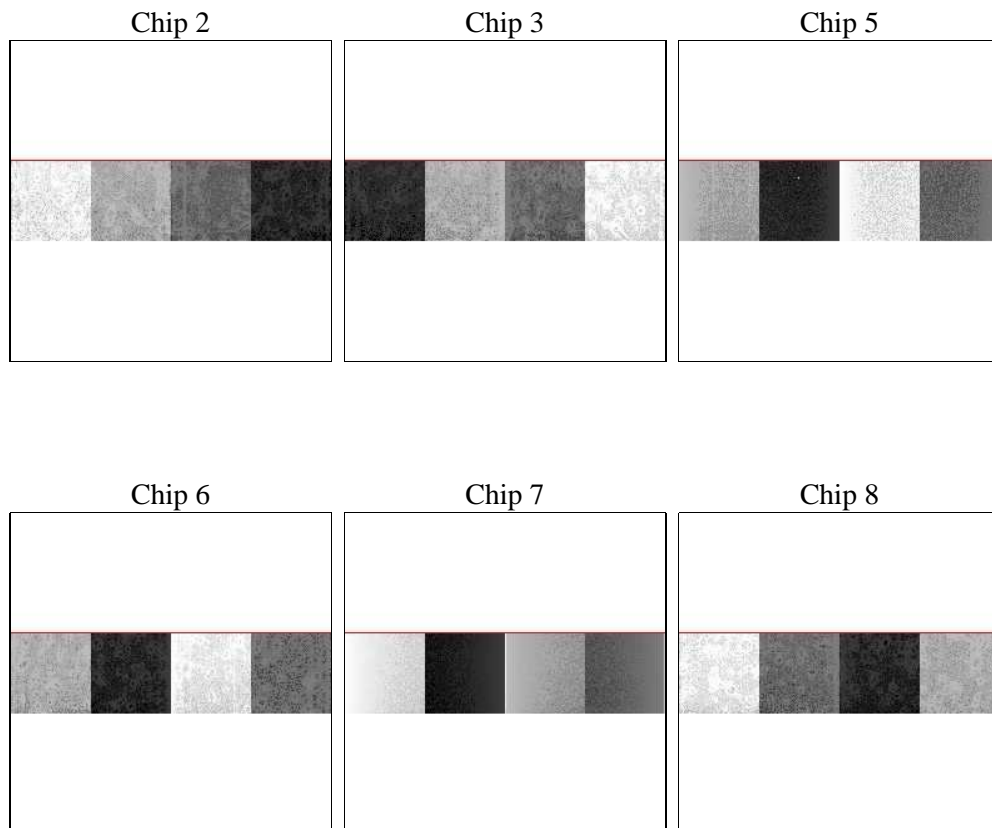
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5160.1001118422	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5160.1001118422	Sum of GTIs [s]
date	2012-04-30T01:21:17	Date and time of file creation	ontime3	5160.1001118422	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5160.1001118422	Sum of GTIs [s]
			ontime6	5160.1001118422	Sum of GTIs [s]
			ontime7	5160.1001118422	Sum of GTIs [s]
			ontime8	5160.1001118422	Sum of GTIs [s]
			l1events	125151	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18500	16263	27448	16630	22451	23859
rejected events	16595	14565	14600	14884	13765	19615
rejected %	89%	89%	53%	89%	61%	82%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	897	838	5088	741	1051	1467
	4%	5%	18%	4%	4%	6%
grade 1 events	7	8	39	4	18	8
	0%	0%	0%	0%	0%	0%
grade 2 events	479	366	3217	379	2122	1029
	2%	2%	11%	2%	9%	4%
grade 3 events	259	261	594	266	1053	617
	1%	1%	2%	1%	4%	2%
grade 4 events	261	261	588	282	947	559
	1%	1%	2%	1%	4%	2%
grade 5 events	601	669	1968	667	2071	909
	3%	4%	7%	4%	9%	3%
grade 6 events	330	306	5356	377	4763	1190
	1%	1%	19%	2%	21%	4%
grade 7 events	15666	13554	10598	13914	10426	18080
	84%	83%	38%	83%	46%	75%

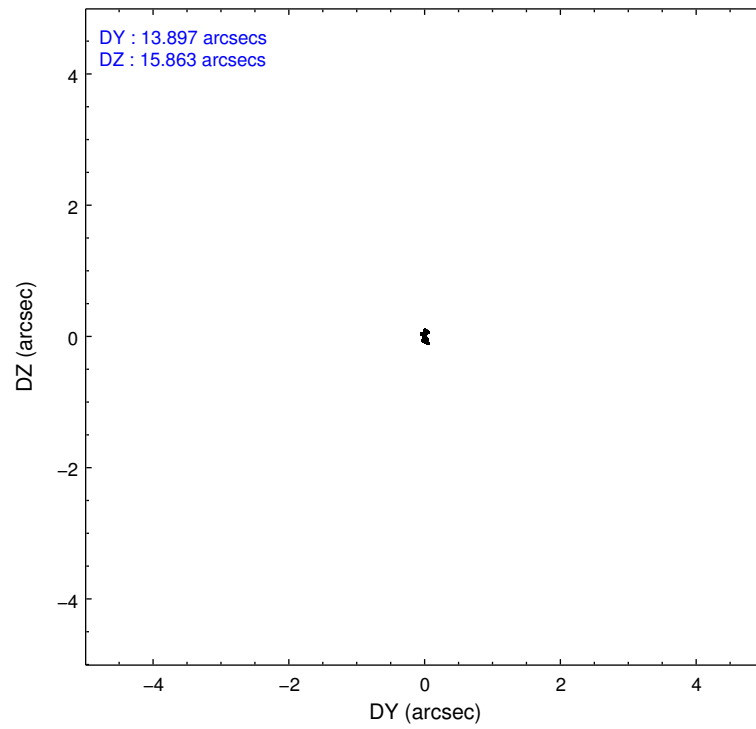
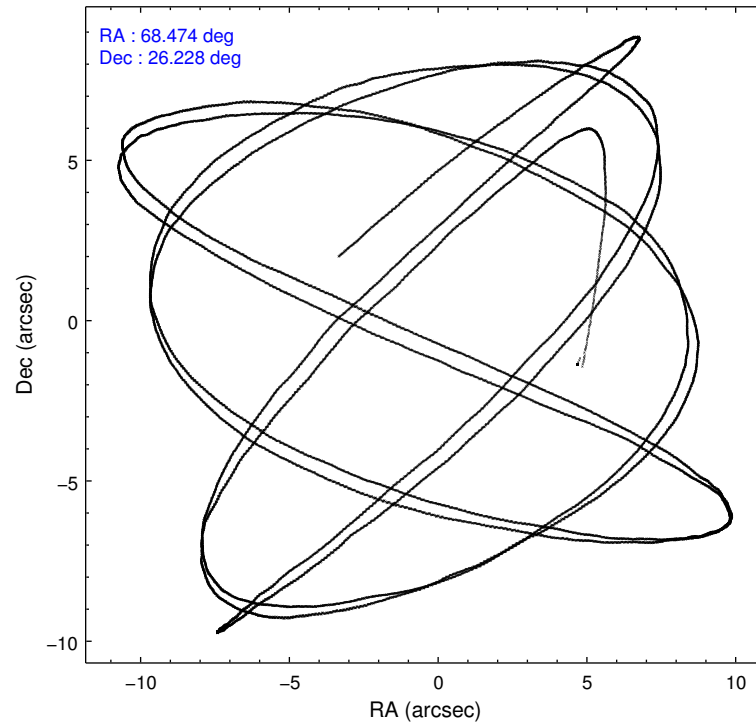


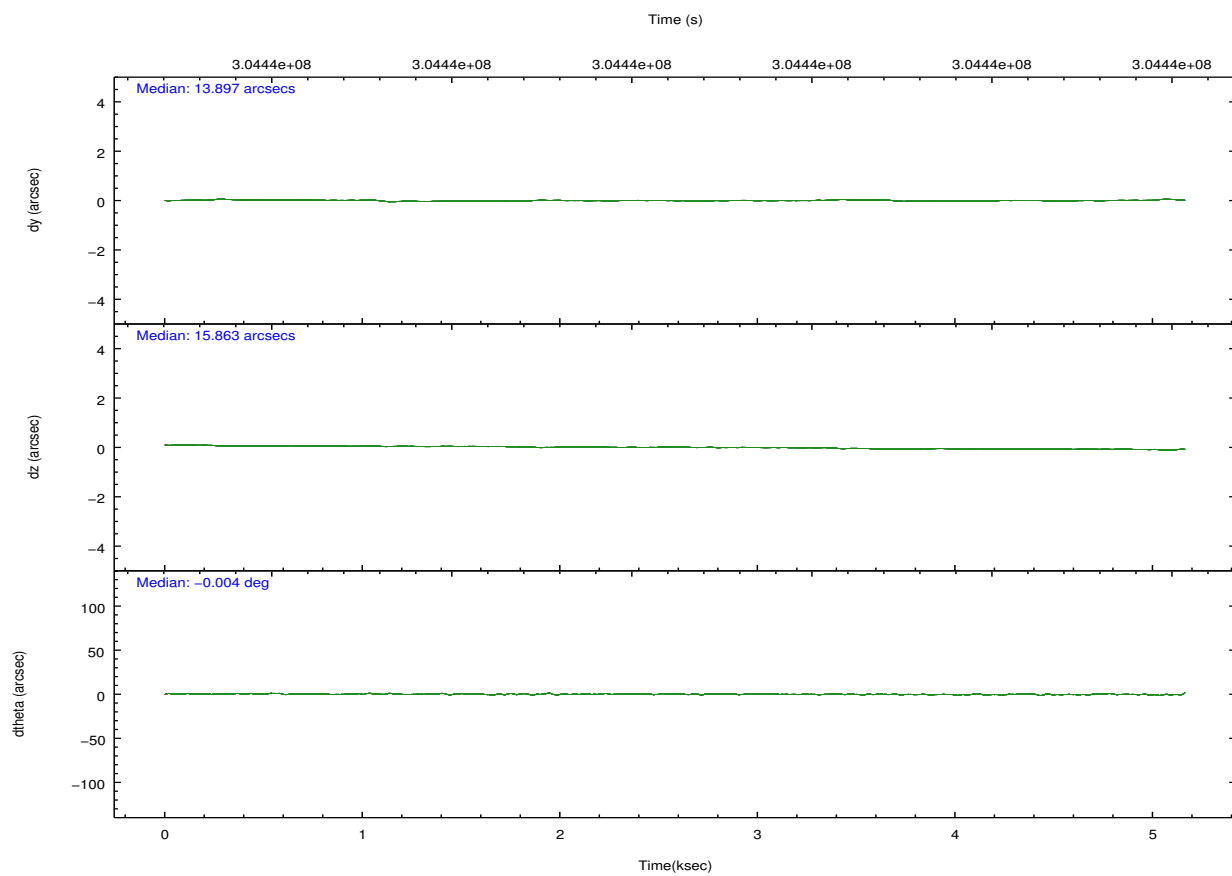
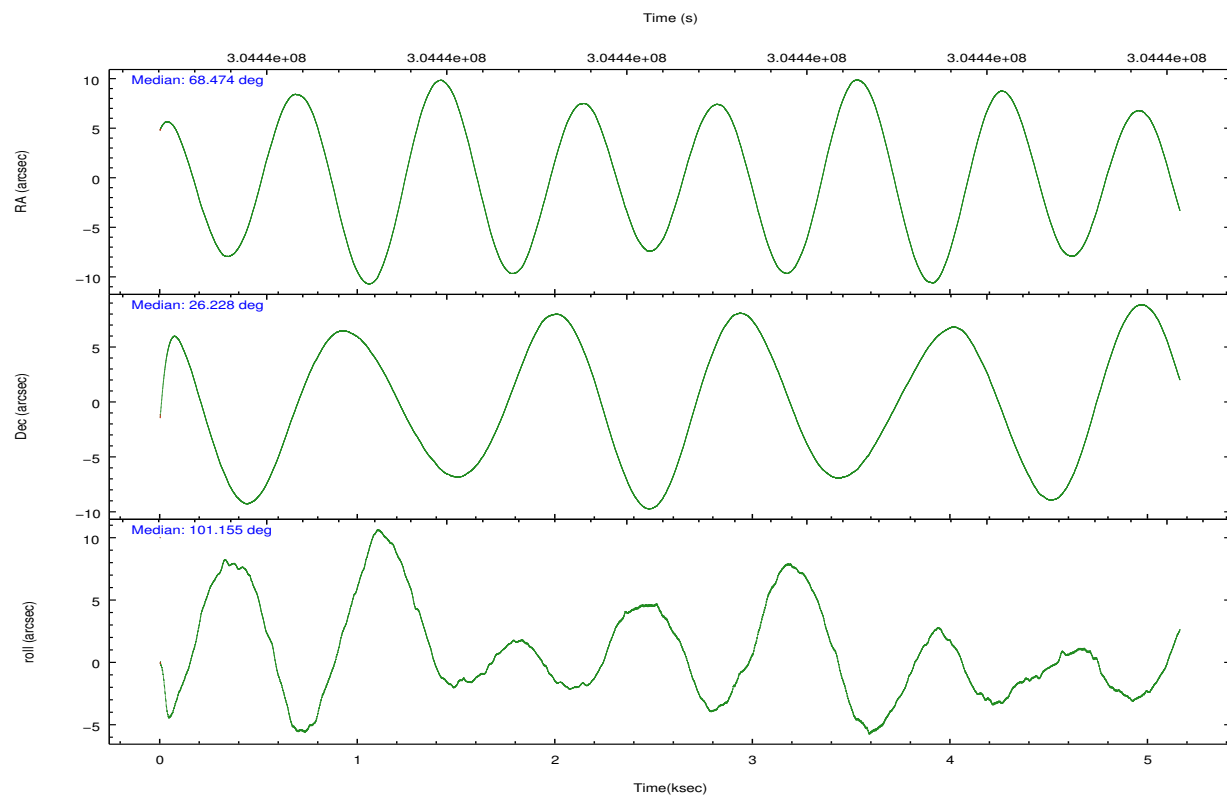
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	68.494605	68.47427242943242
[deg] Pointing Dec	26.207663	26.22803824326179
[deg] Pointing Roll	100.992630	101.1582429483336
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	304437829.184000	304436651.8301
Observation start date	2007-08-25T14:02:44	2007-08-25T13:44:11
[s] Observation end time (MET)	304442829.184000	304443701.26794
Observation end date	2007-08-25T15:26:04	2007-08-25T15:41:41
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	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1.1

## 2.3 Aspect



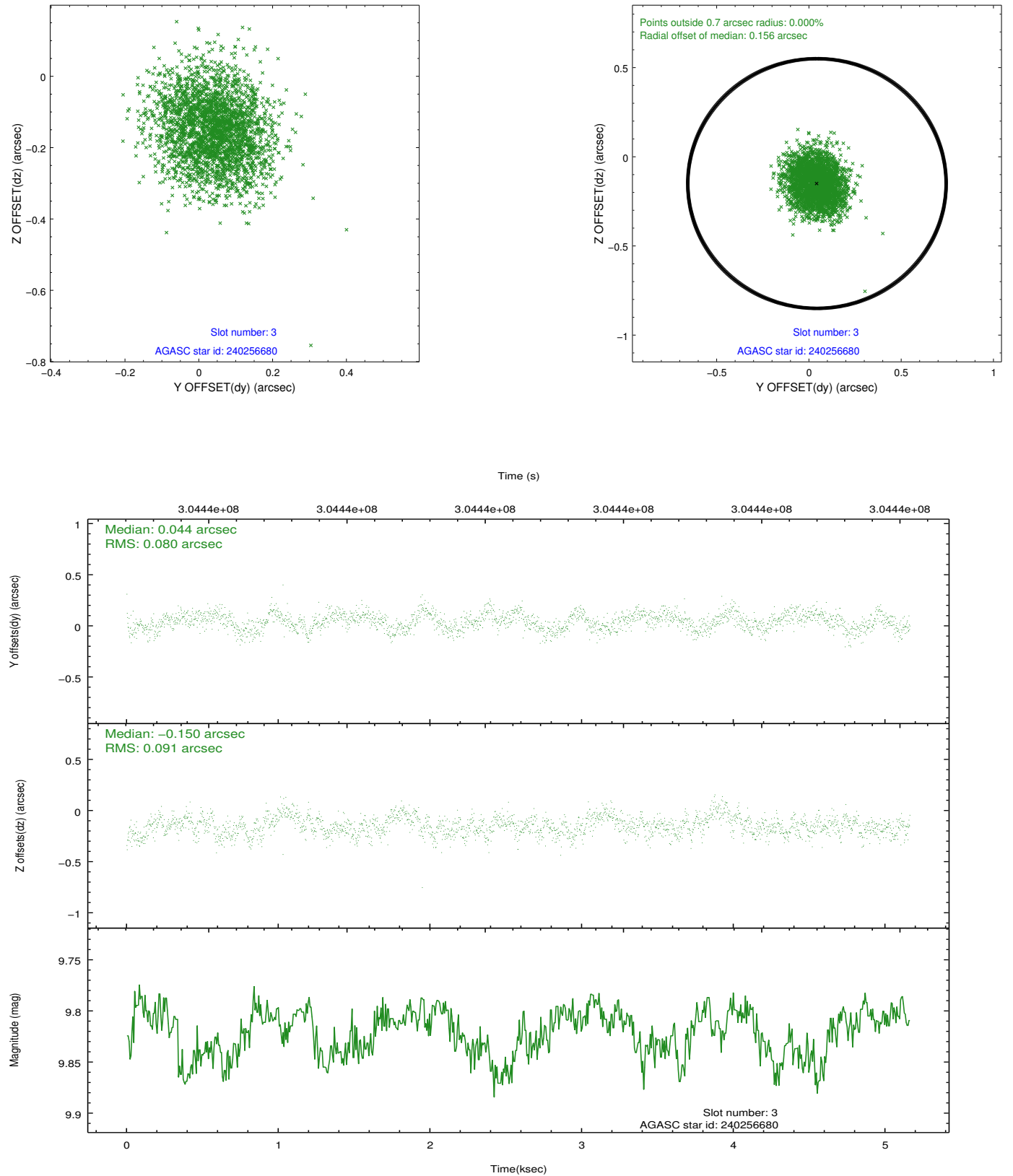


### Slot Statistics

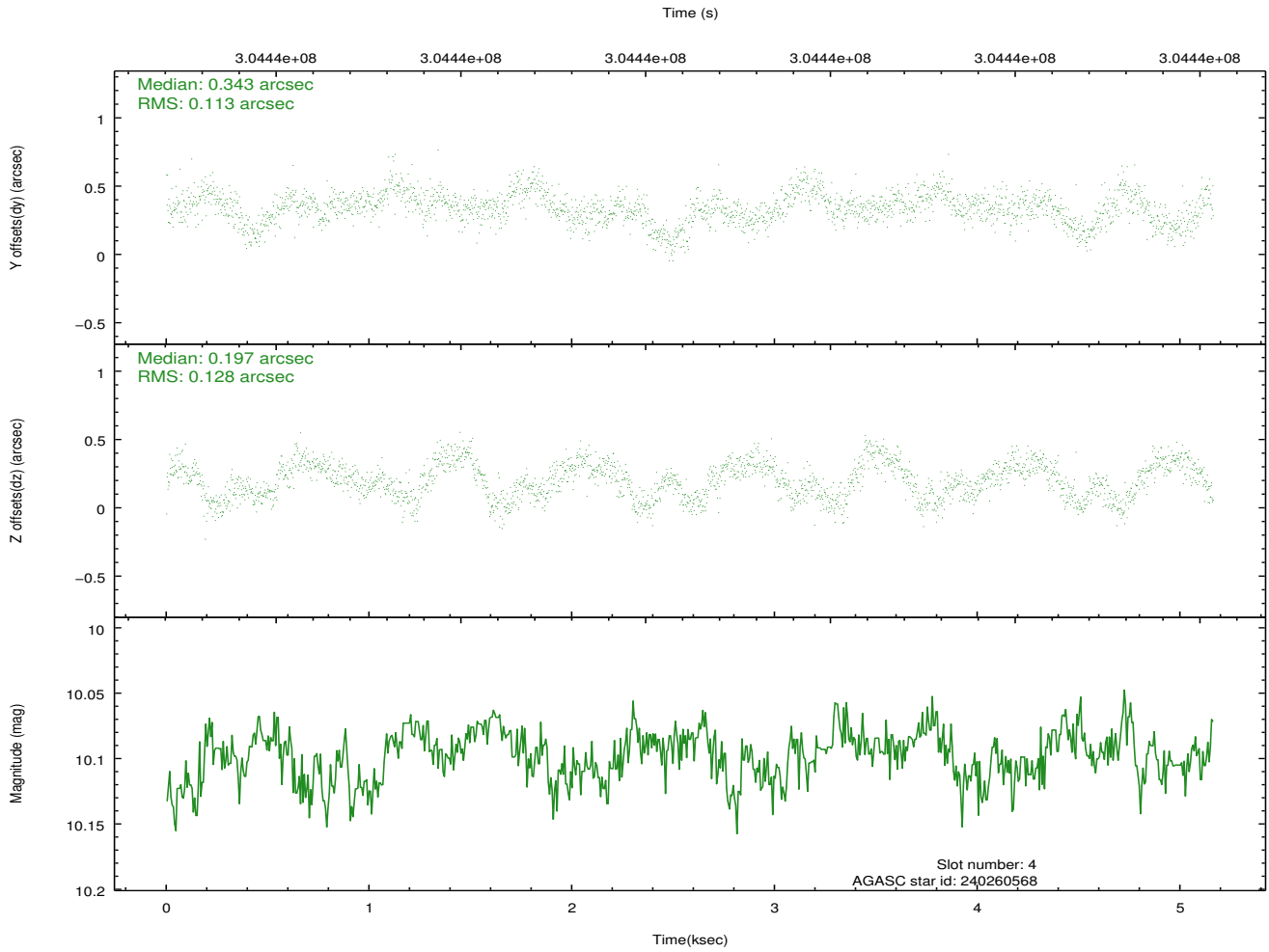
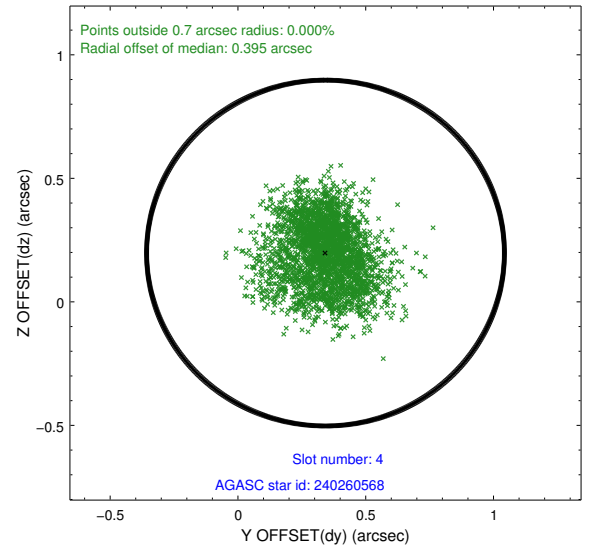
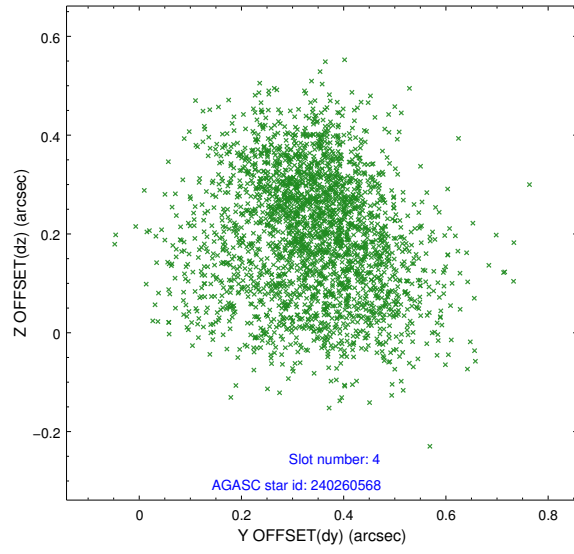
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1260	-0.066	-0.034	0.009	0.015	0.000000	0.000000	-766.89	-1737.25
1	FID	ACIS-S-4	7.19	1260	0.209	0.041	0.012	0.020	0.000000	0.000000	2146.11	170.11
2	FID	ACIS-S-5	7.22	1260	-0.174	0.001	0.010	0.018	0.000000	0.000000	-1818.35	165.05
3	GUIDE	240256680	9.82	2516	0.044	-0.150	0.130	0.206	67.956850	25.885203	-804.35	1930.61
4	GUIDE	240260568	10.10	2514	0.343	0.197	0.186	0.290	68.738938	25.619304	-2229.70	-373.63
5	GUIDE	240780704	9.33	2514	-0.248	-0.206	0.132	0.211	67.945198	26.407108	1045.11	1601.45
6	GUIDE	240256840	10.43	2513	-0.271	-0.155	0.224	0.352	67.925620	26.123990	58.99	1862.89
7	GUIDE	240387864	7.12	2517	0.136	0.322	0.062	0.103	69.352478	25.727369	-2218.95	-2402.12

## 2.4 Star Slots

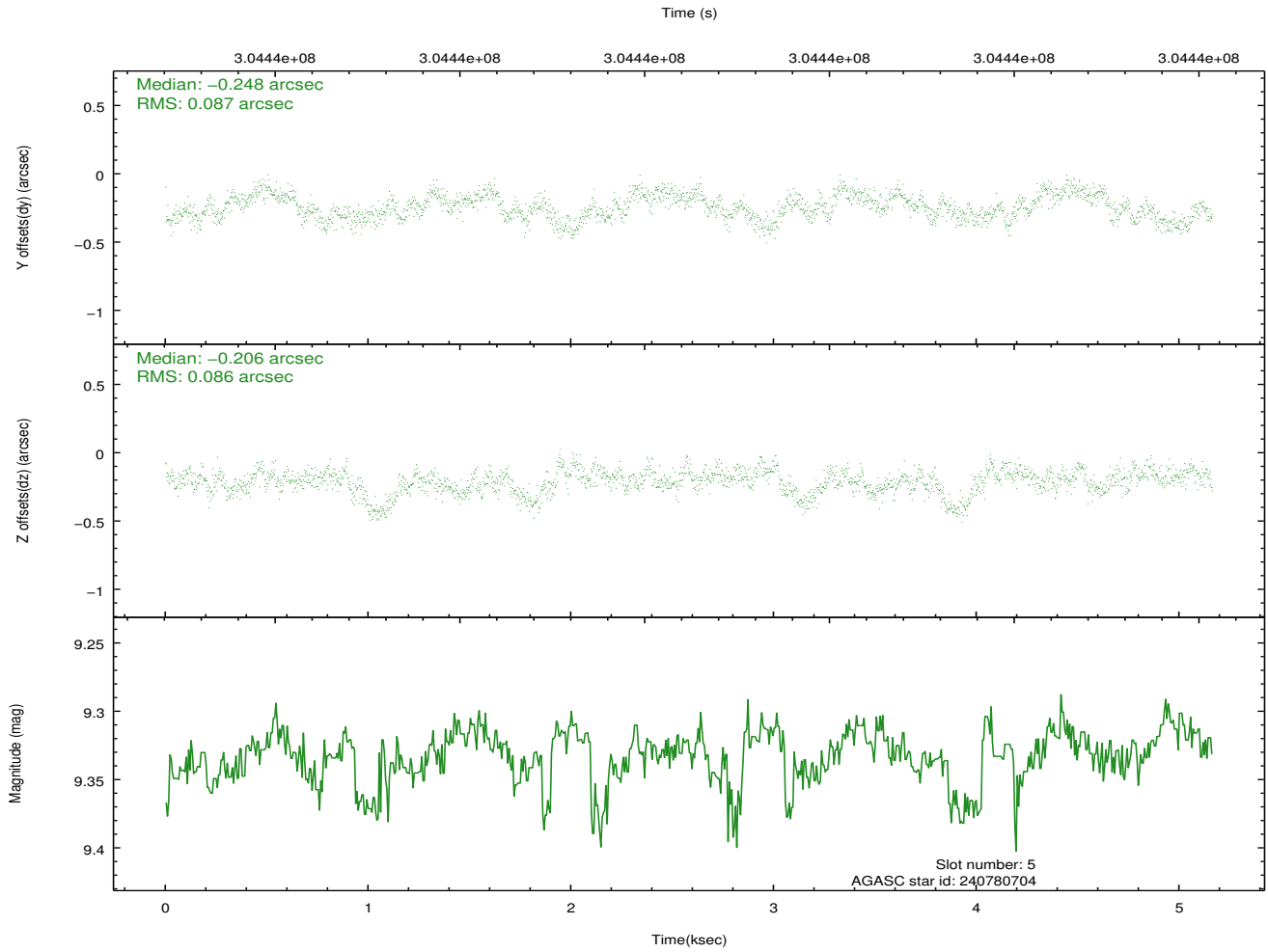
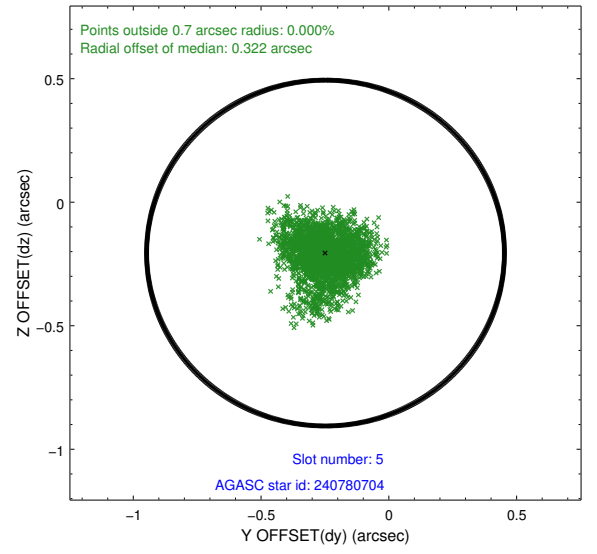
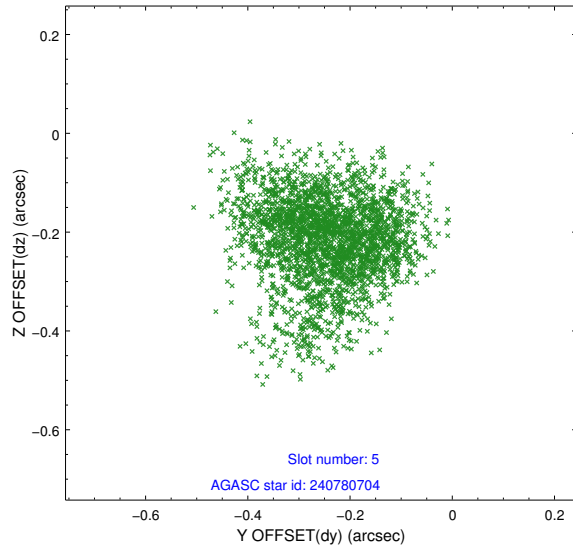
### 2.4.1 Slot 3



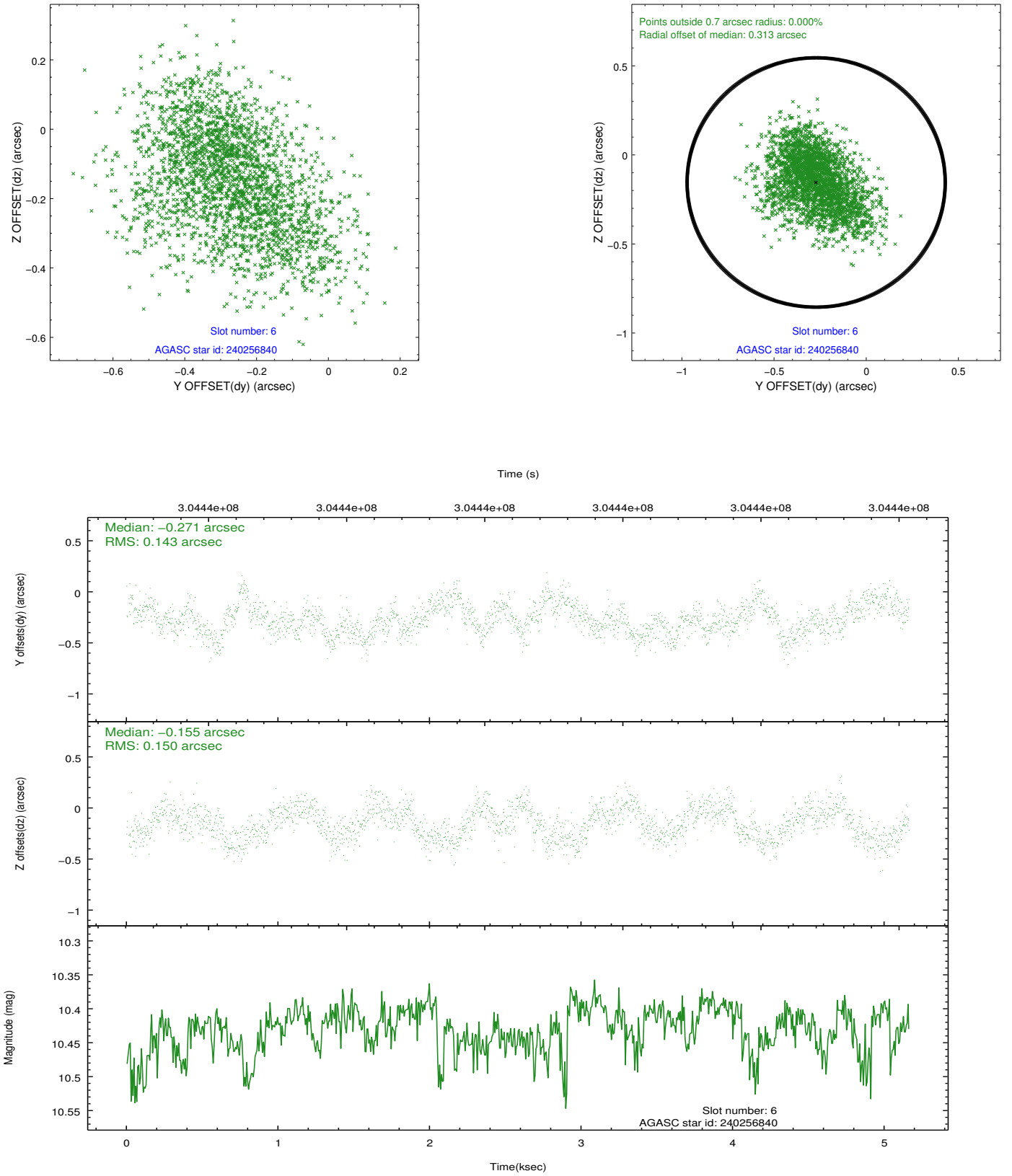
## 2.4.2 Slot 4



### 2.4.3 Slot 5

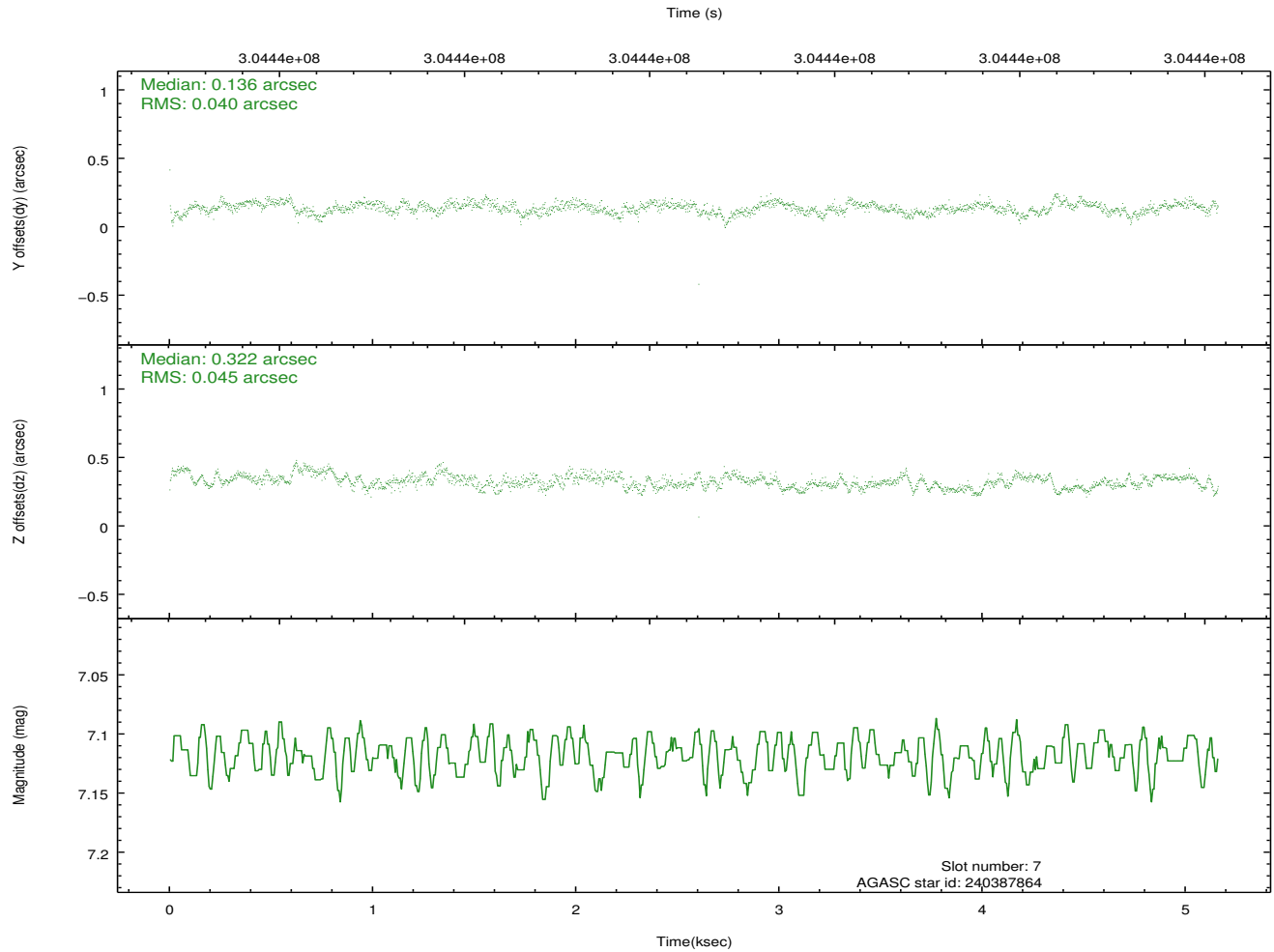
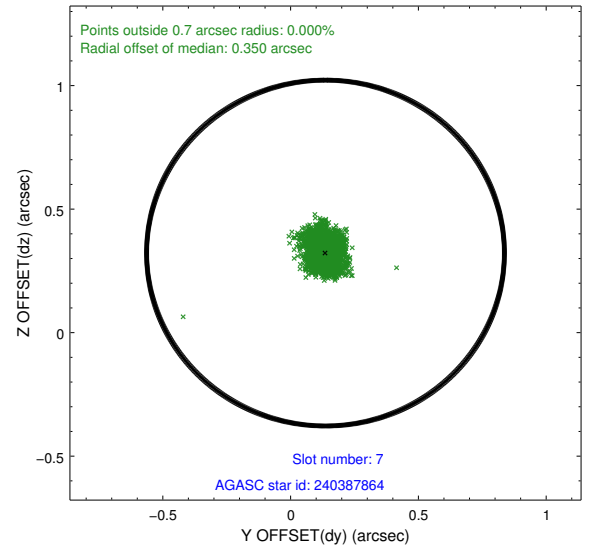
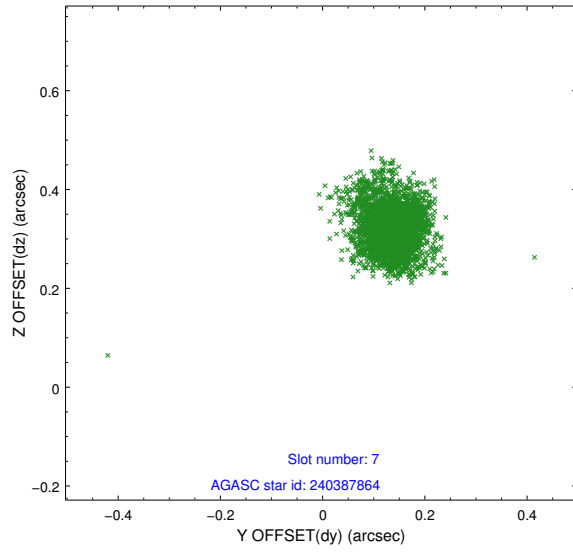


## 2.4.4 Slot 6



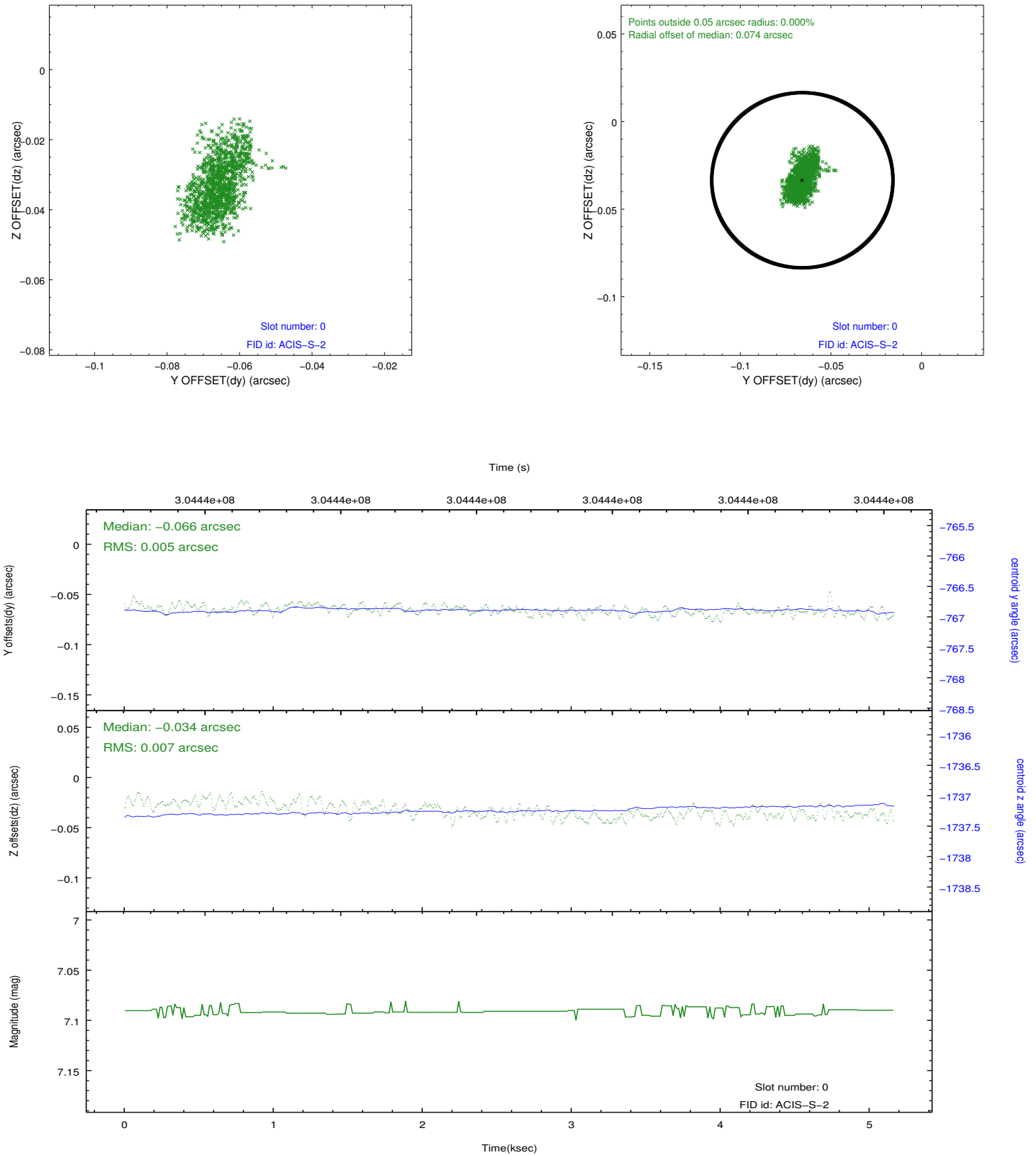


## 2.4.5 Slot 7

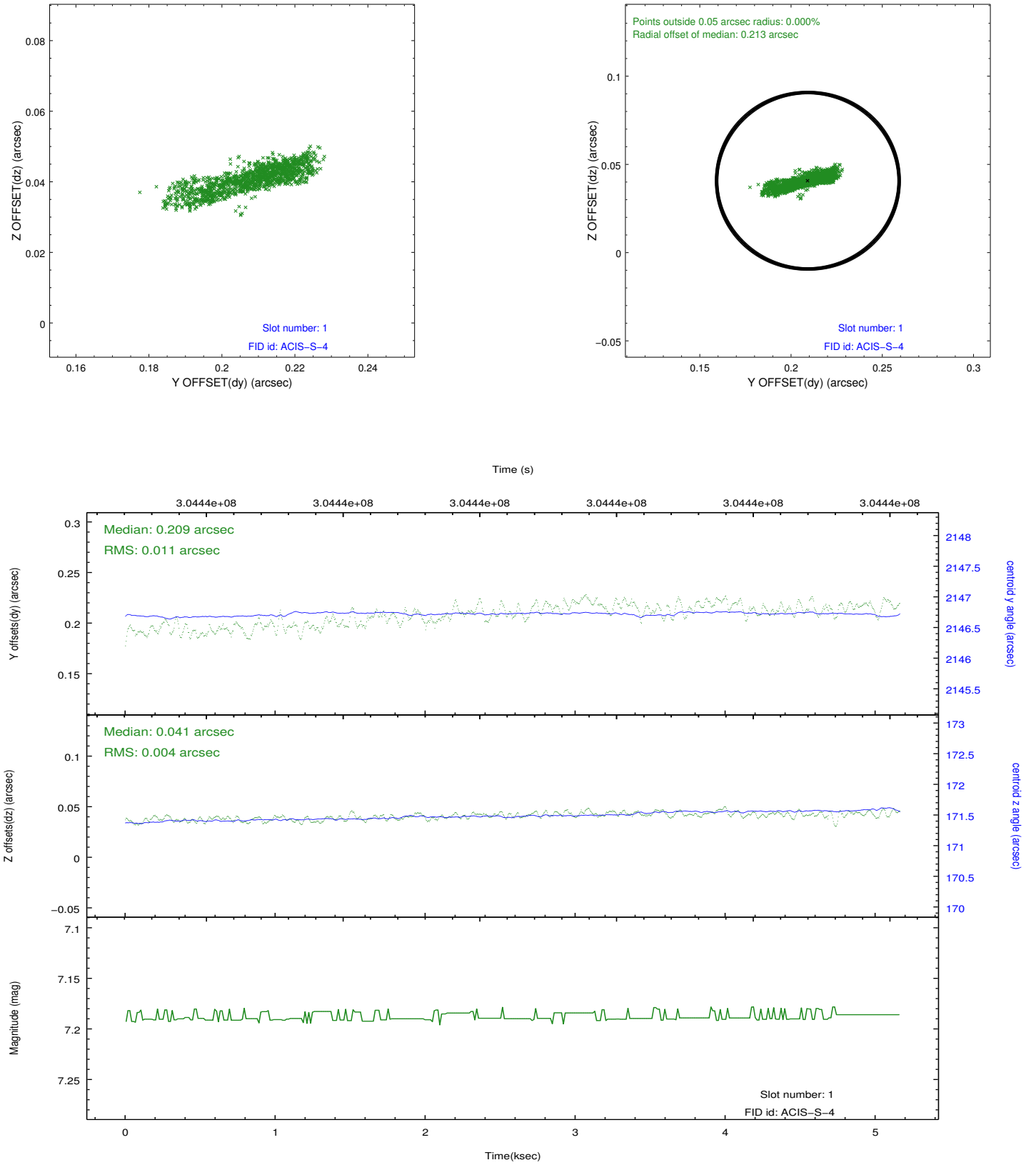


## 2.5 FID Slots

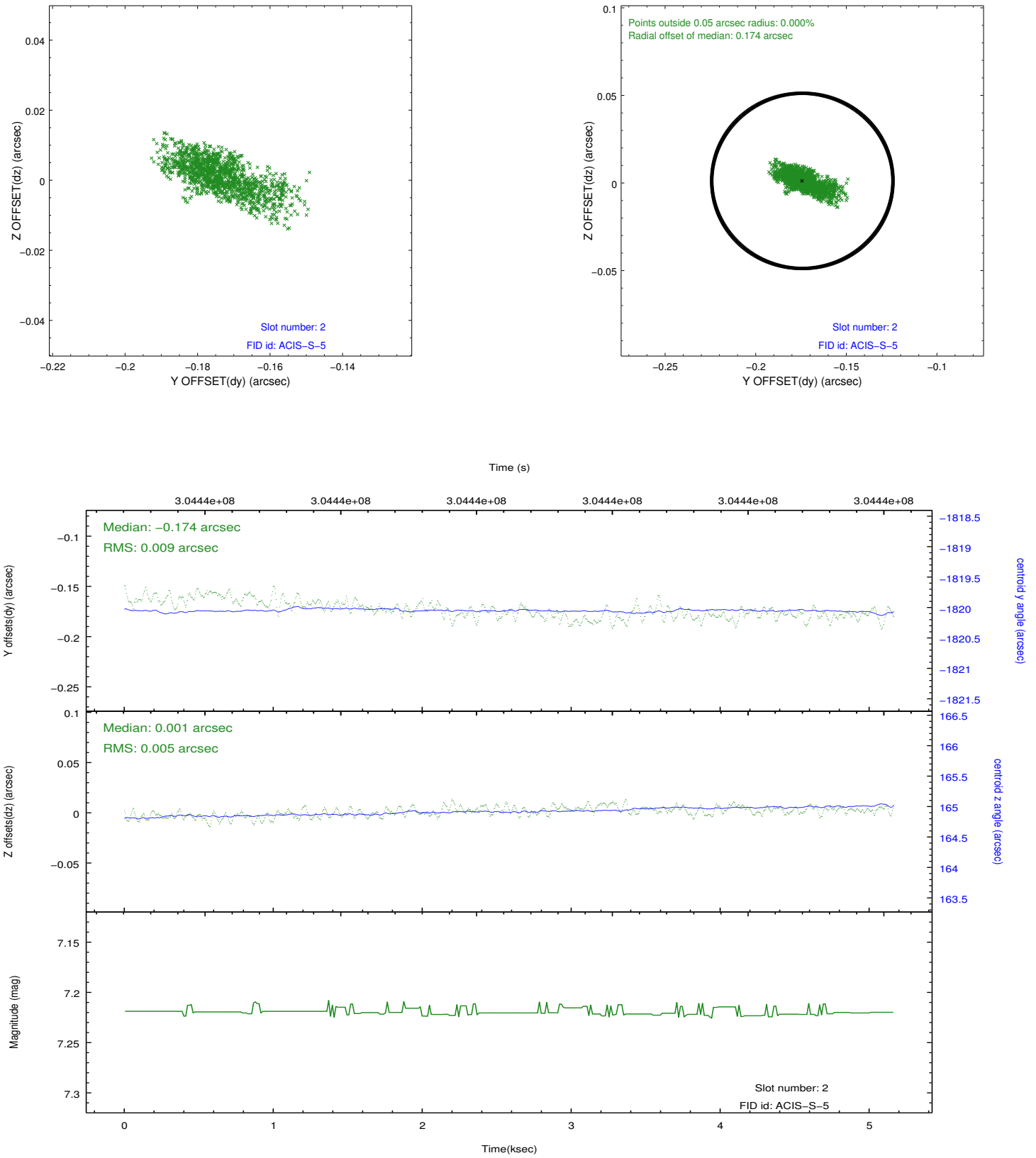
### 2.5.1 Slot 0



## 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)	2012.05.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.16010011

### A.2 Comments