

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5669 - L2 Version 4  
Chandra X-Ray Center

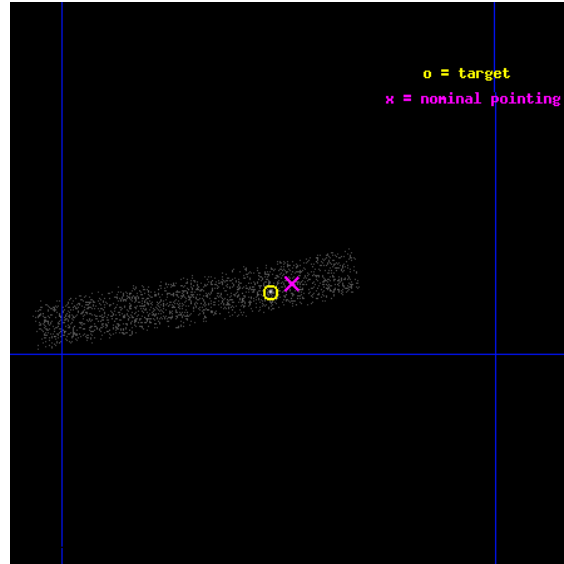
L2 Processing Date : Mar 7 2013

## 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

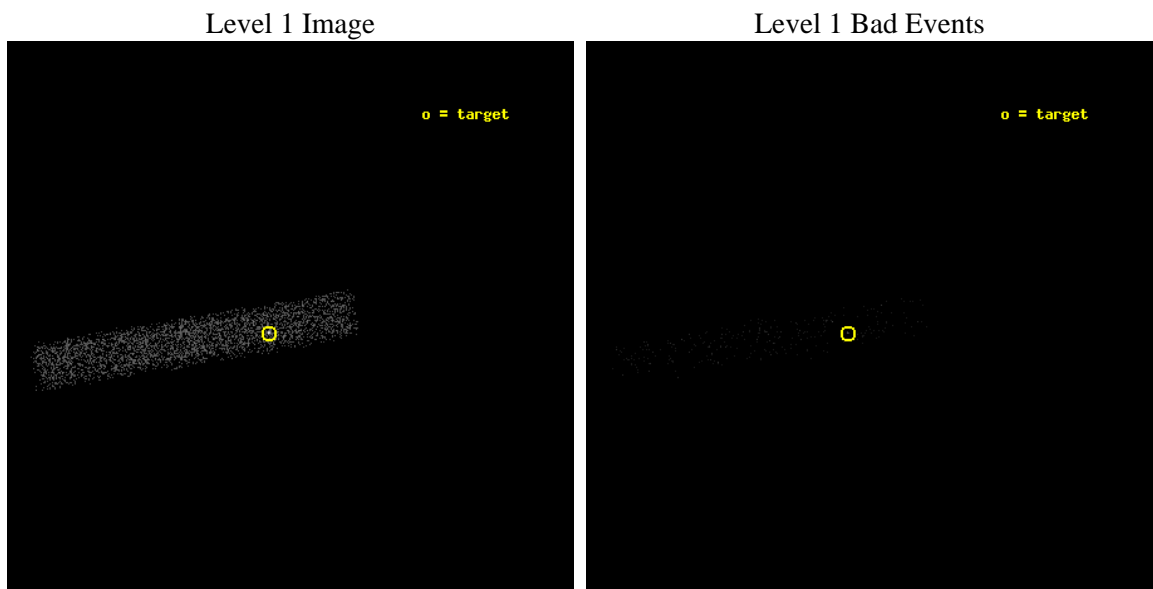
seq_num	701092	Sequence number
obs_id	5669	Observation id
title	Gems in the Chandra Deep Fields: The Nature of Optically Passive X-ray Galaxies (aka XBONGs)	Proposal title
observer	Dr. Sally Laurent-Muehleisen	Principal investigator
object	RGB0013+408	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	3.379583	Observer's specified target RA [deg]
dec_targ	40.860306	Observer's specified target Dec [deg]
ra_nom	3.3673984818579	Nominal RA [deg]
dec_nom	40.863688923494	Nominal Dec [deg]
roll_nom	170.51053397649	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3131.6000466347	Sum of GTIs [s]
livetime	2840.1959428938	Livetime [s]
ontime7	3131.6000466347	Sum of GTIs [s]
l2events	2795	Number of level 2 events



## 2 OBI

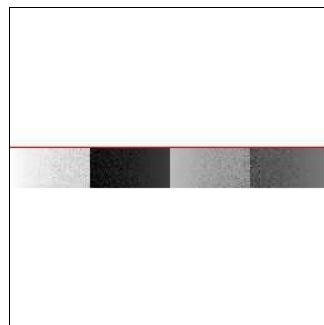
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2969.993000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	3131.6000466347	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime7	3131.6000466347	Sum of GTIs [s]
date	2013-03-07T12:09:51	Date and time of file creation	l1events	6982	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

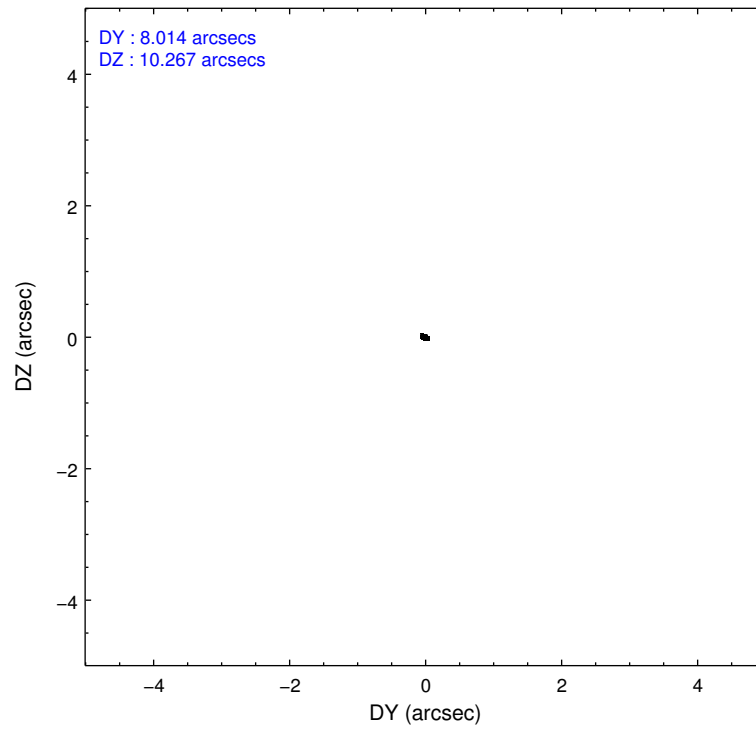
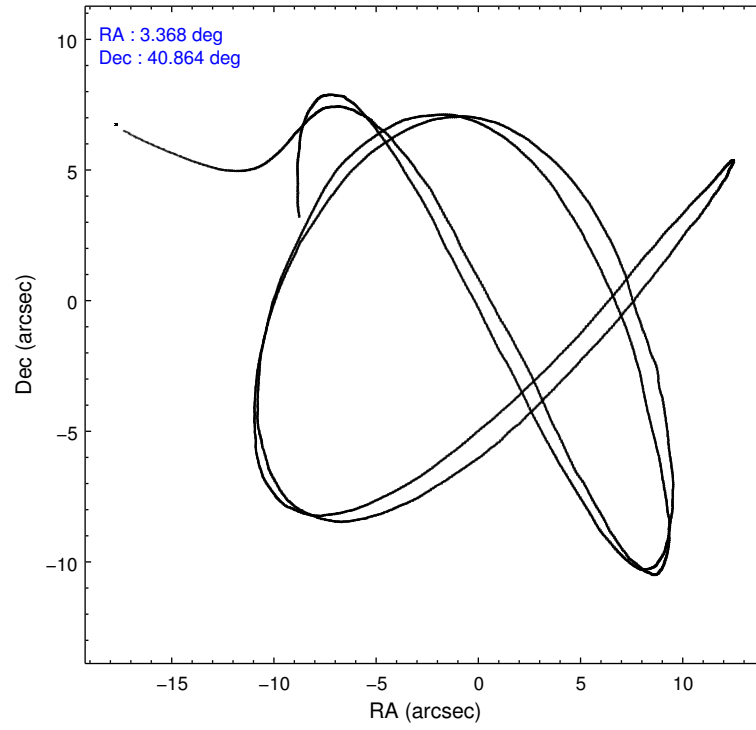
	<b>ccd 7</b>
level 1 events	6982
rejected events	4084
rejected %	58%

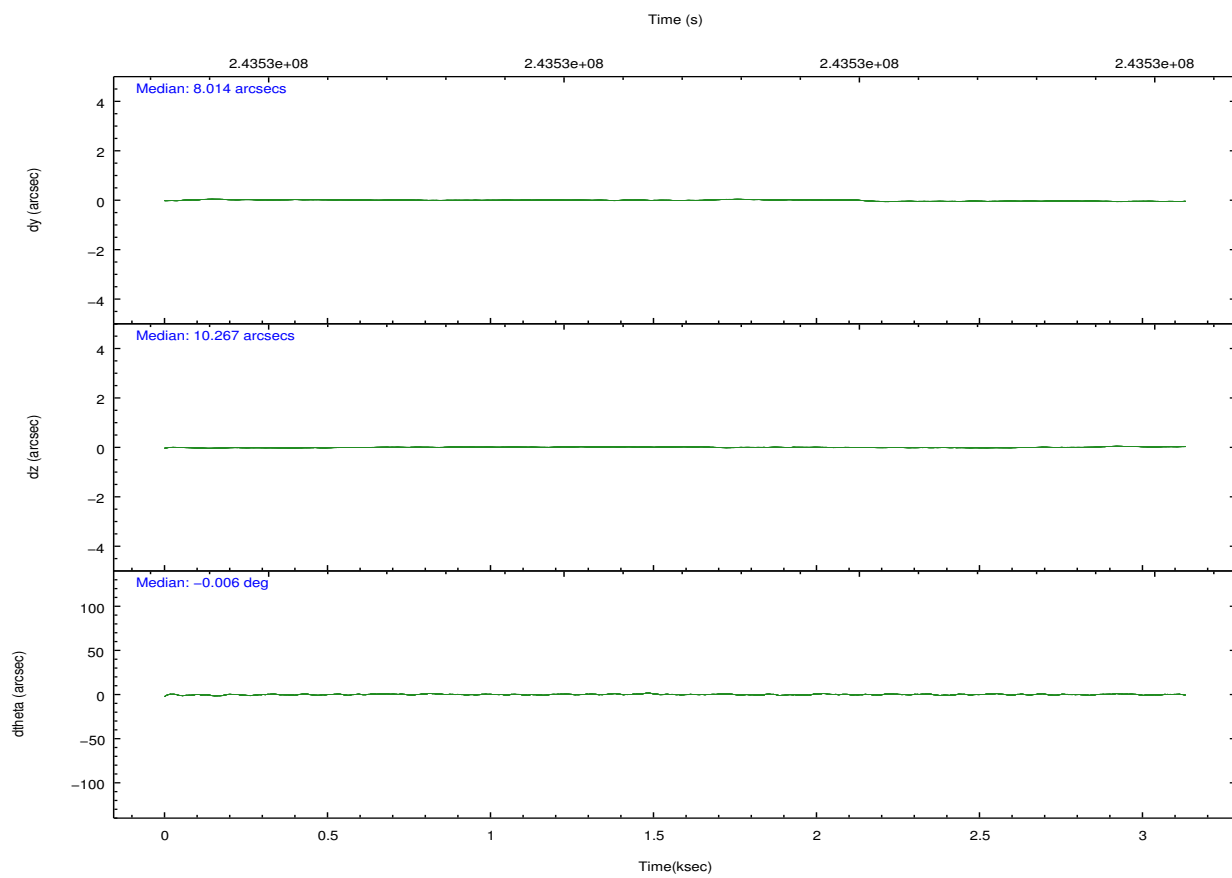
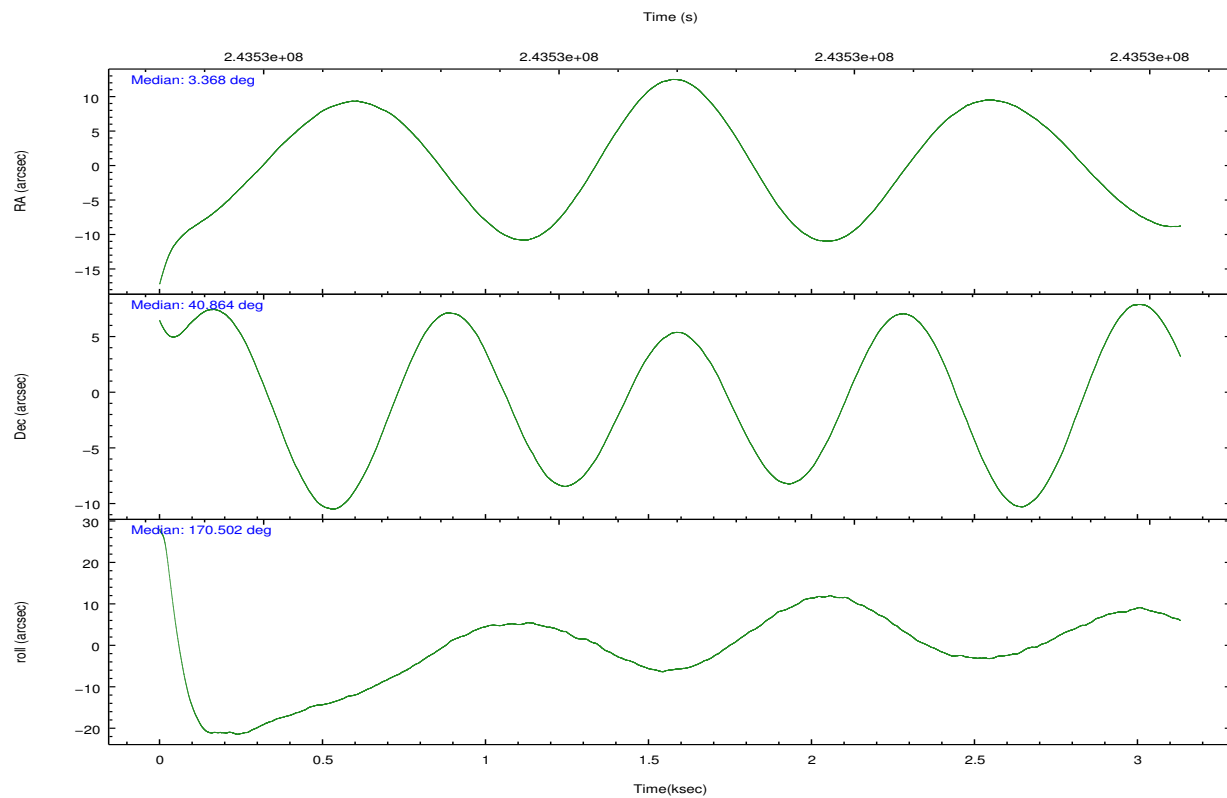
	<b>ccd 7</b>
grade 0 events	619
	8%
grade 1 events	6
	0%
grade 2 events	800
	11%
grade 3 events	464
	6%
grade 4 events	435
	6%
grade 5 events	544
	7%
grade 6 events	1589
	22%
grade 7 events	2525
	36%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	3.401088	3.36739848185789	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	40.873431	40.86368892349371	Subarray start row	449	449
[deg] Pointing Roll	170.331651	170.5105339764894	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)	243525970.184000	243524395.75356			
Observation start date	2005-09-19T14:05:06	2005-09-19T13:39:55			
[s] Observation end time (MET)	243528940.184000	243529154.31628			
Observation end date	2005-09-19T14:54:36	2005-09-19T14:59:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect





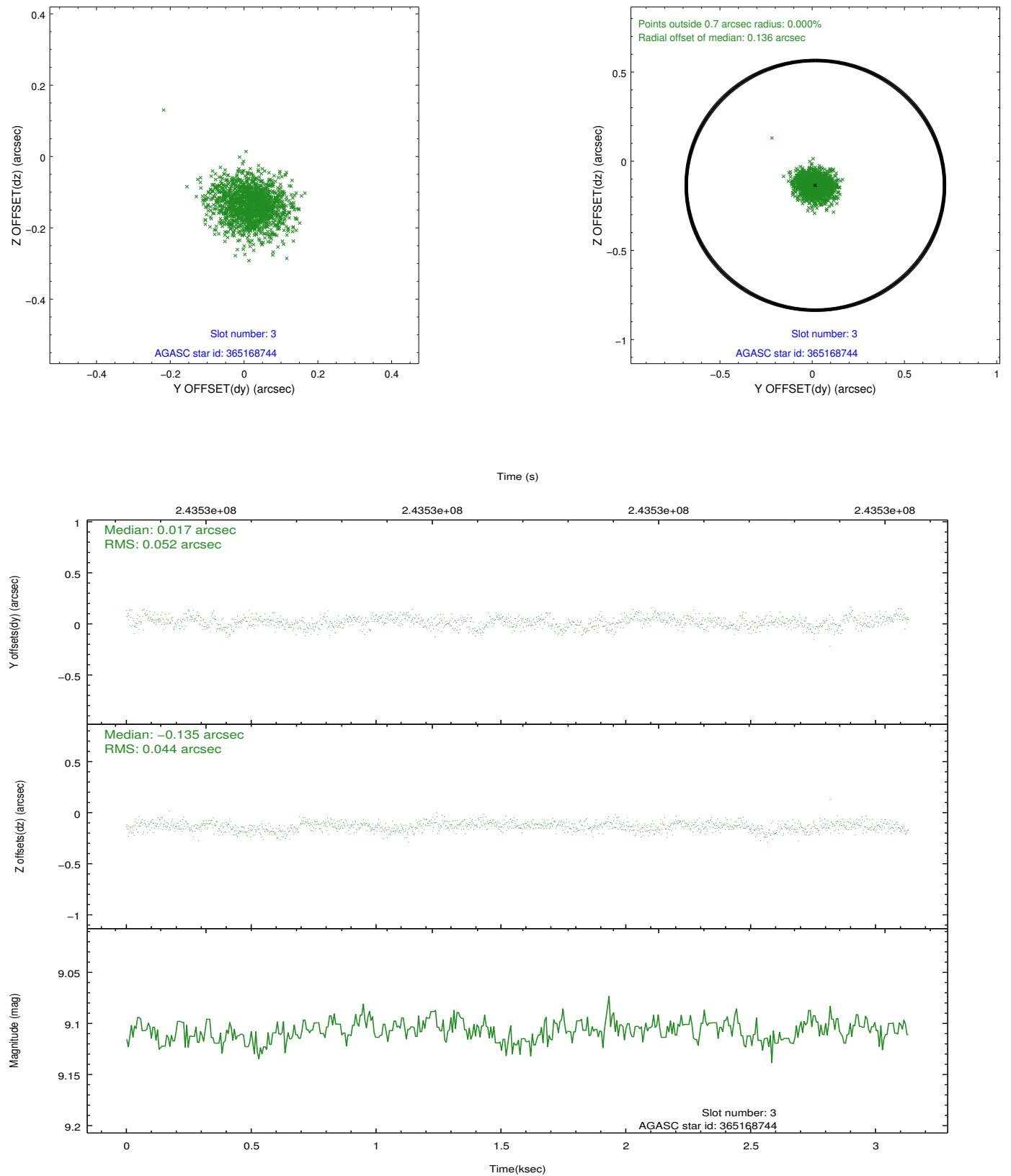
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.20	764	0.077	-0.043	0.005	0.011	0.000000	0.000000	935.35	-1727.18
1	FID	ACIS-S-2	7.11	764	-0.028	0.006	0.006	0.011	0.000000	0.000000	-759.52	-1733.80
2	FID	ACIS-S-5	7.23	764	-0.072	0.044	0.006	0.012	0.000000	0.000000	-1814.90	168.32
3	GUIDE	365168744	9.11	1529	0.017	-0.135	0.073	0.118	2.586496	40.812790	2152.78	578.54
4	GUIDE	365169736	7.60	1529	-0.137	-0.126	0.057	0.089	2.873744	40.553668	1230.31	1373.88
5	GUIDE	365171216	7.83	1529	-0.012	-0.108	0.046	0.077	3.489835	40.420221	-513.37	1568.68
6	GUIDE	365699840	8.74	1529	-0.050	0.260	0.072	0.113	3.337232	41.515989	558.03	-2249.54
7	GUIDE	365705576	9.35	1527	0.185	0.107	0.086	0.142	4.107749	41.278690	-1637.92	-1767.96

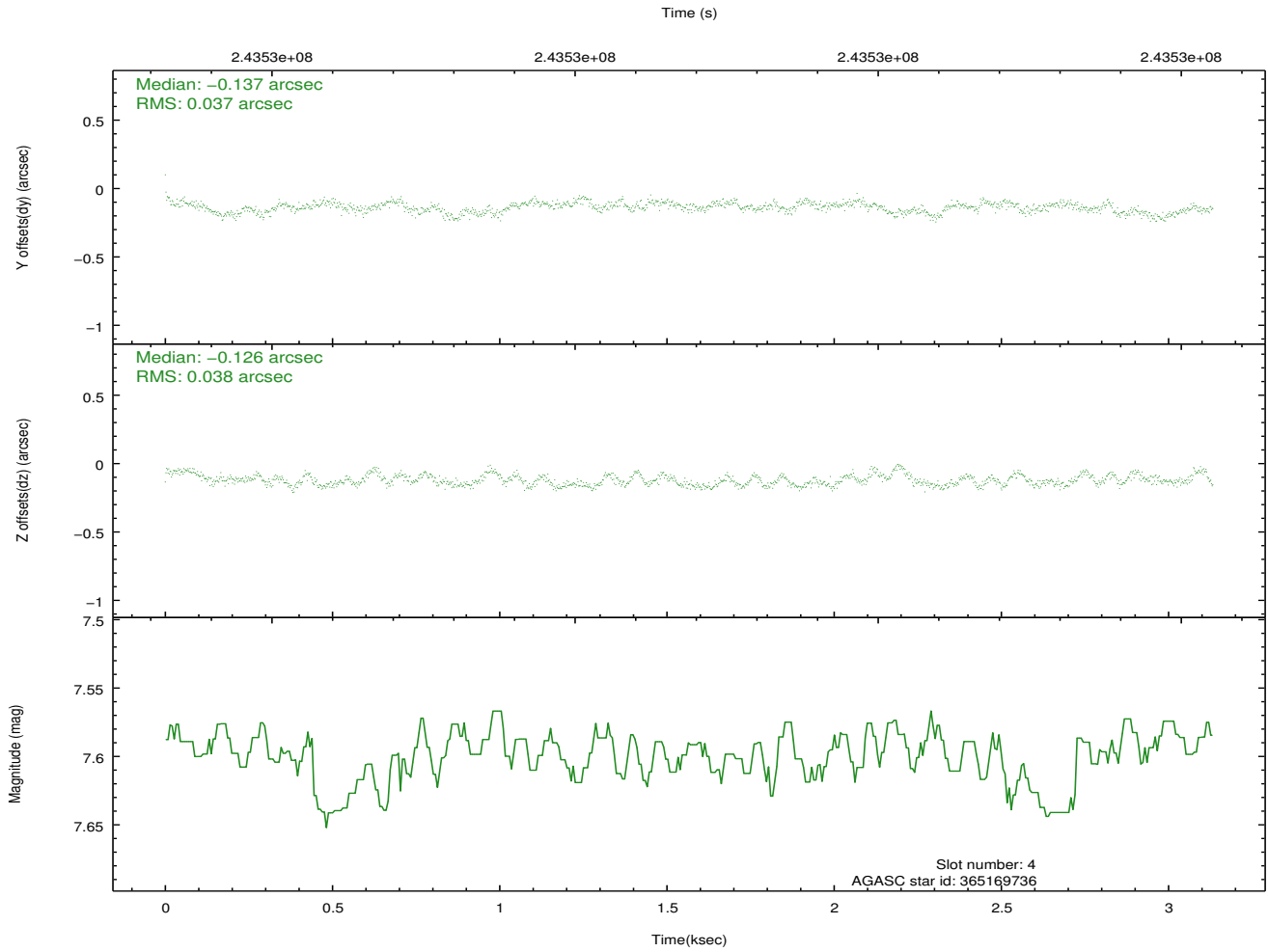
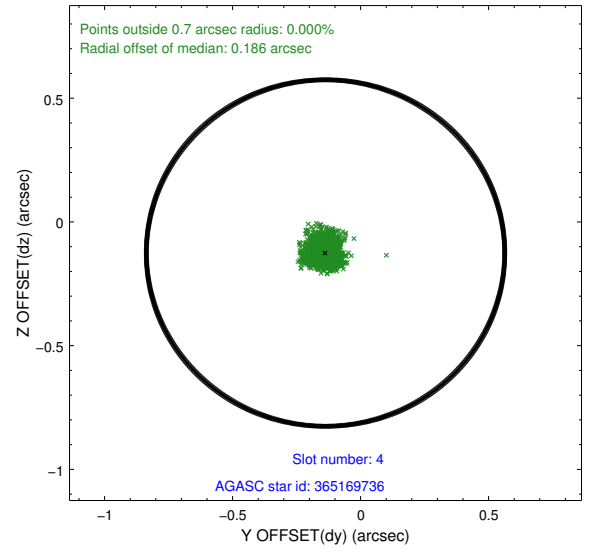
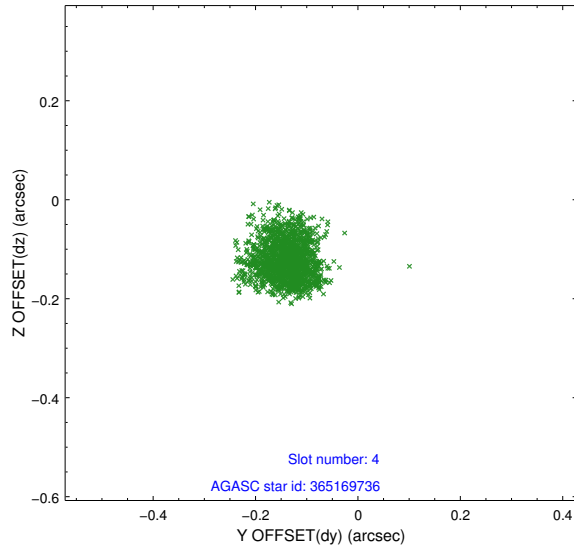


## 2.4 Star Slots

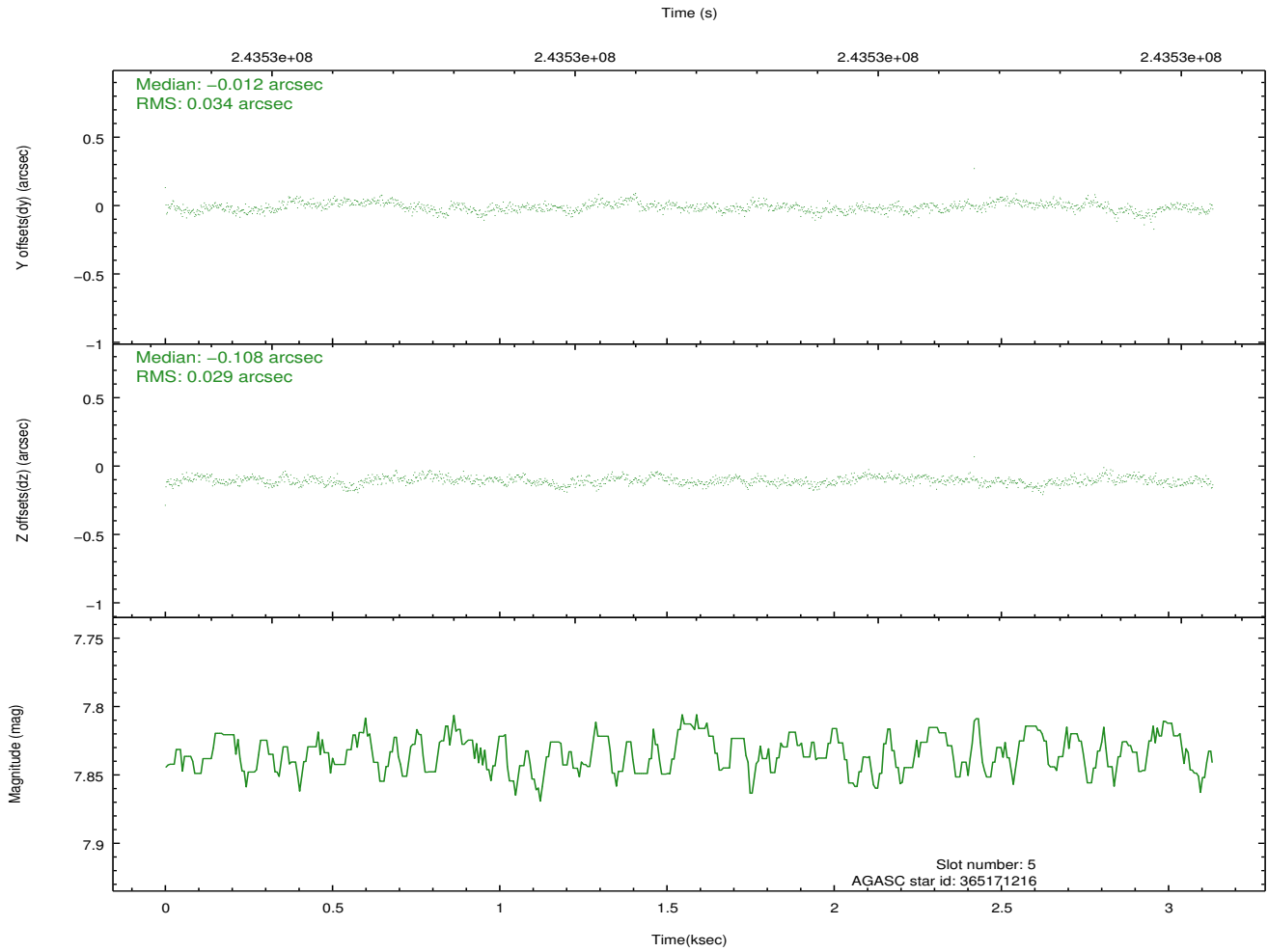
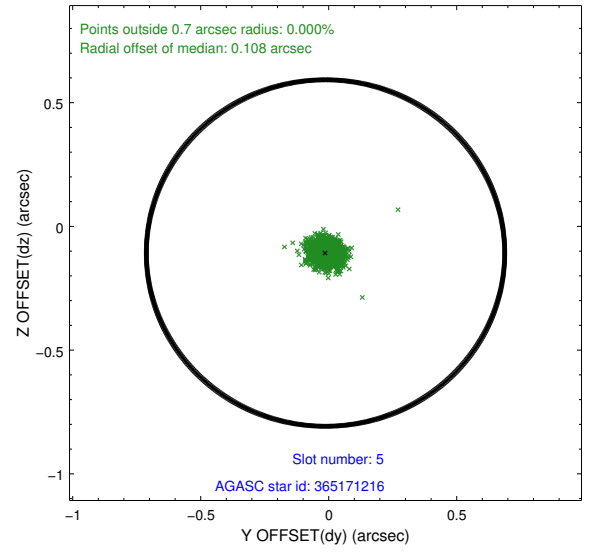
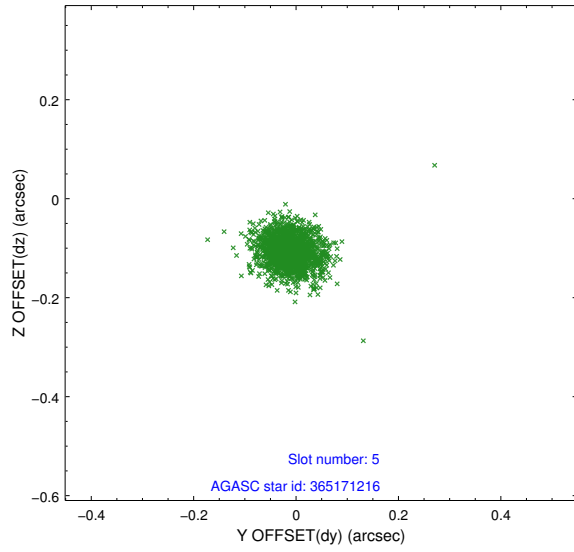
### 2.4.1 Slot 3



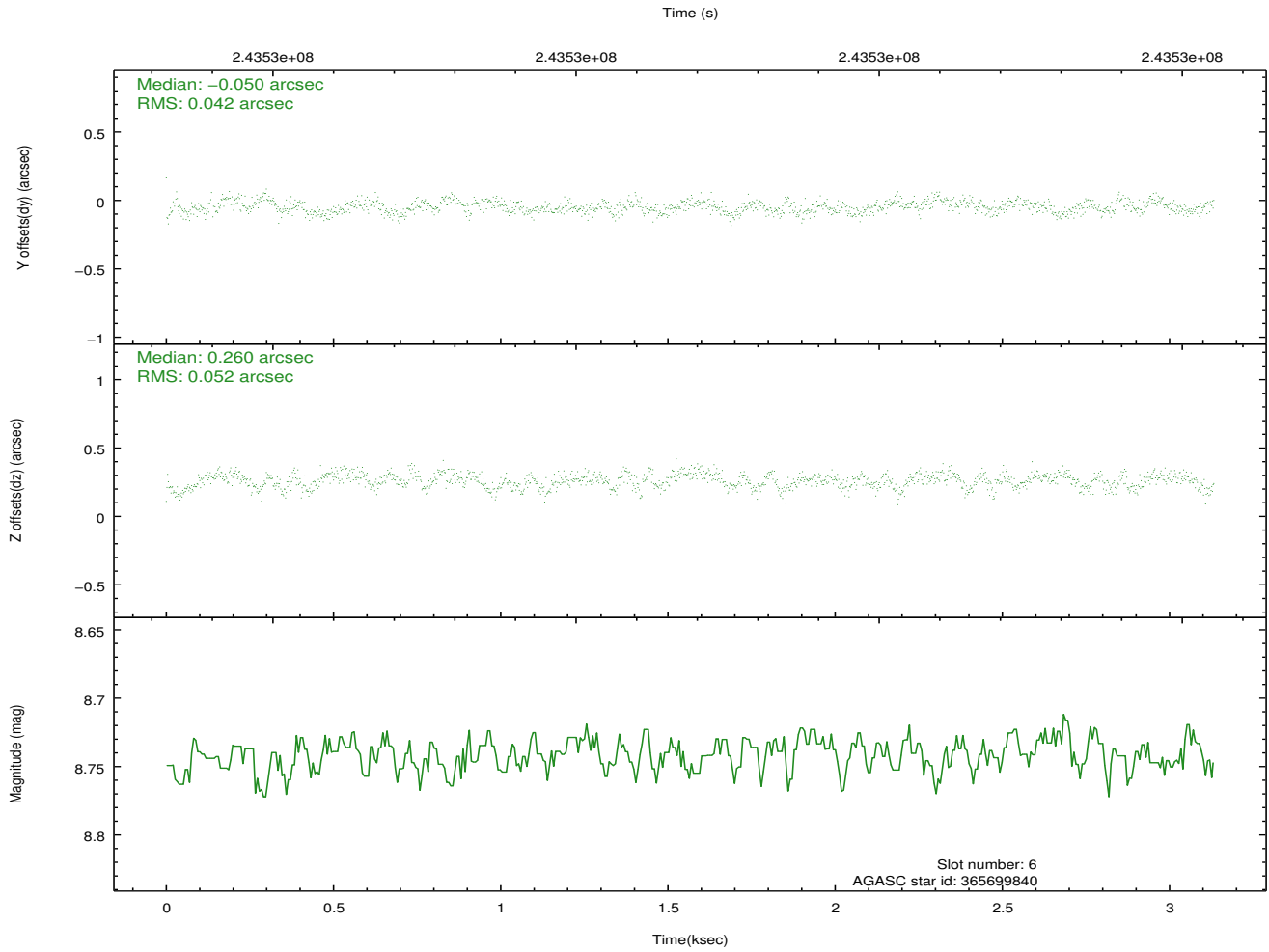
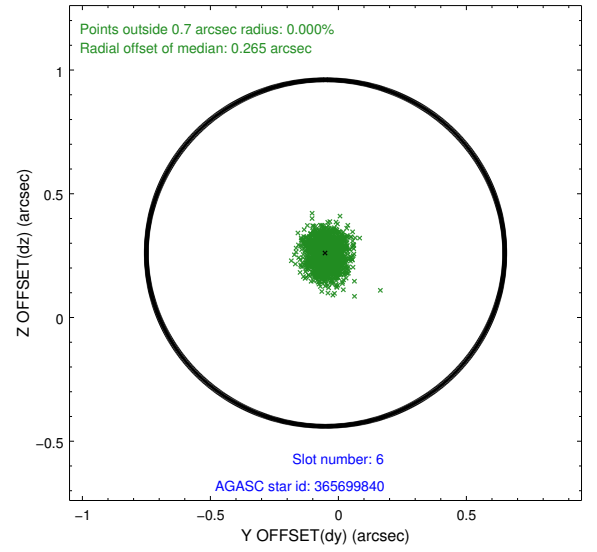
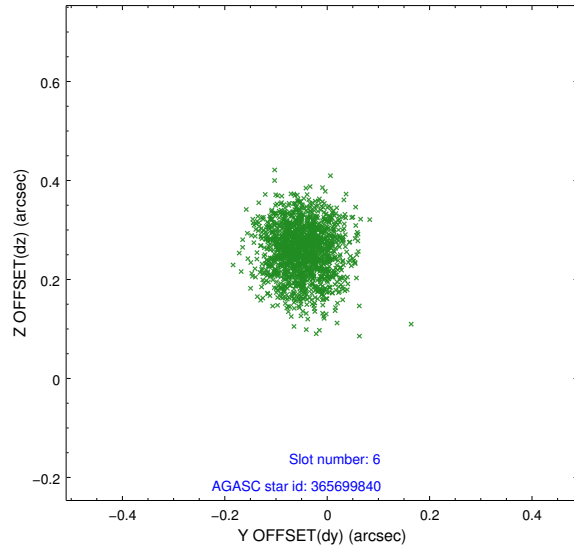
## 2.4.2 Slot 4



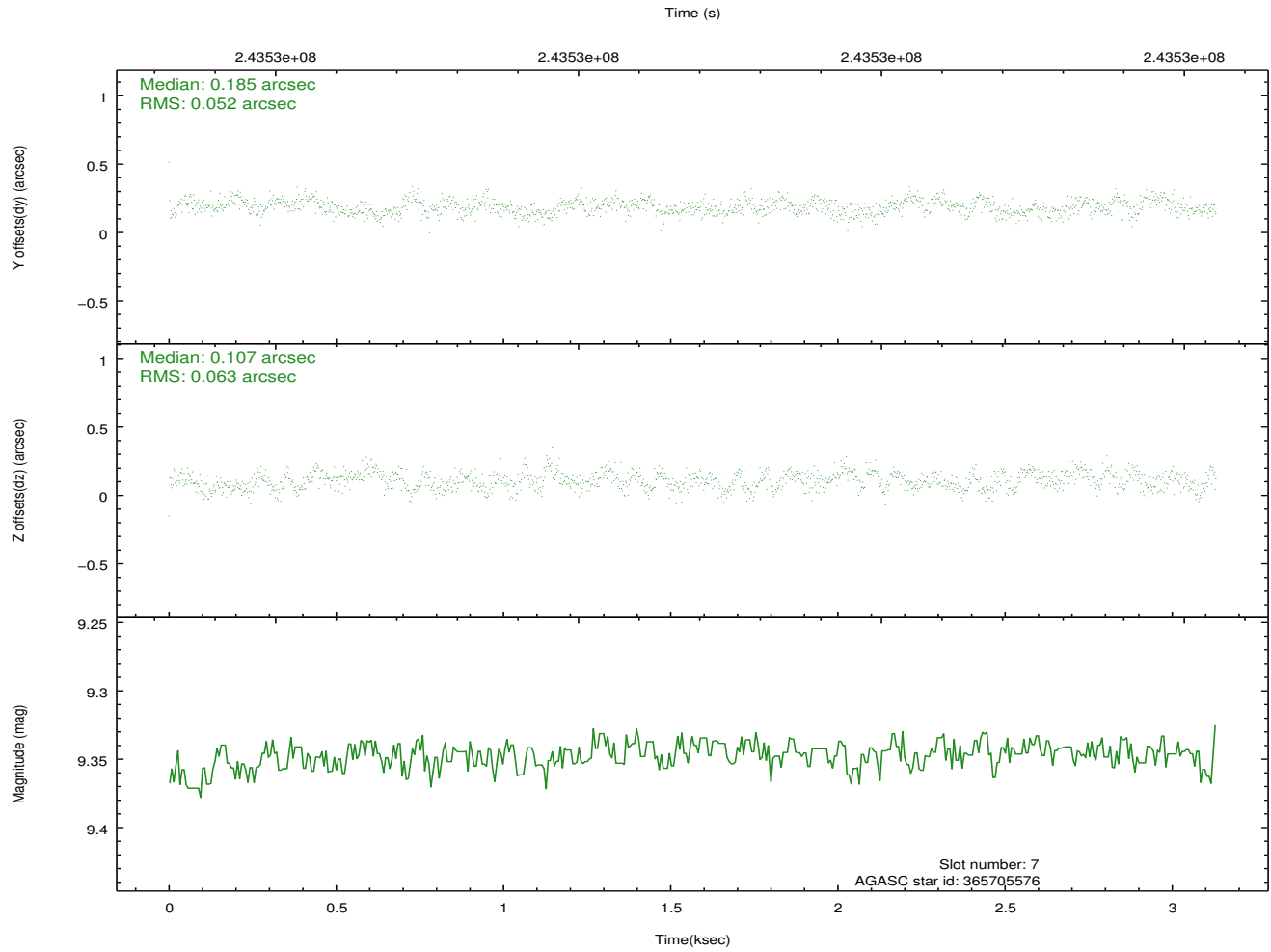
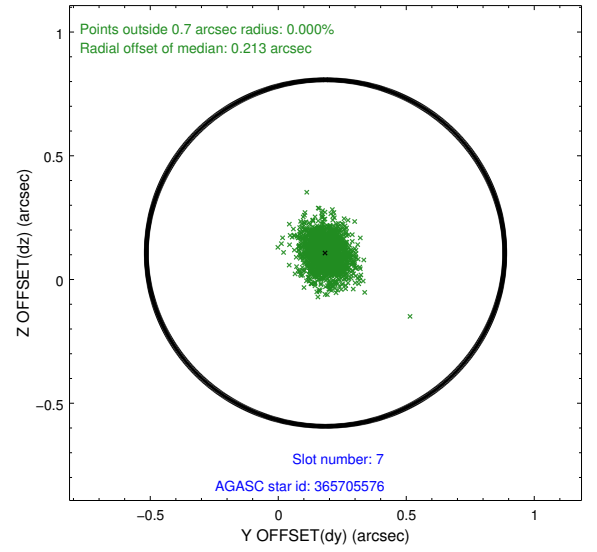
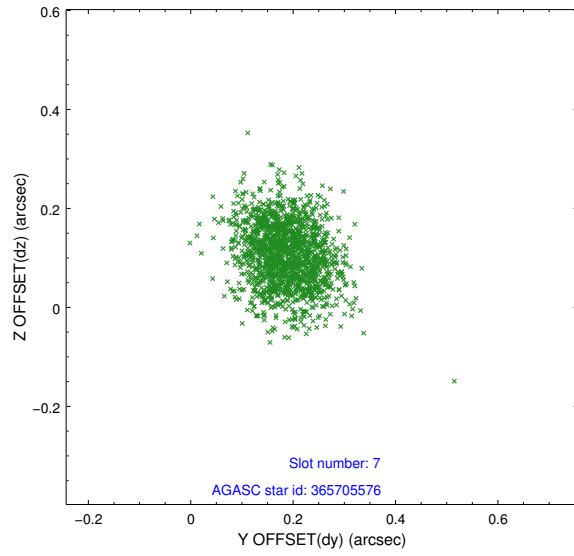
### 2.4.3 Slot 5



## 2.4.4 Slot 6

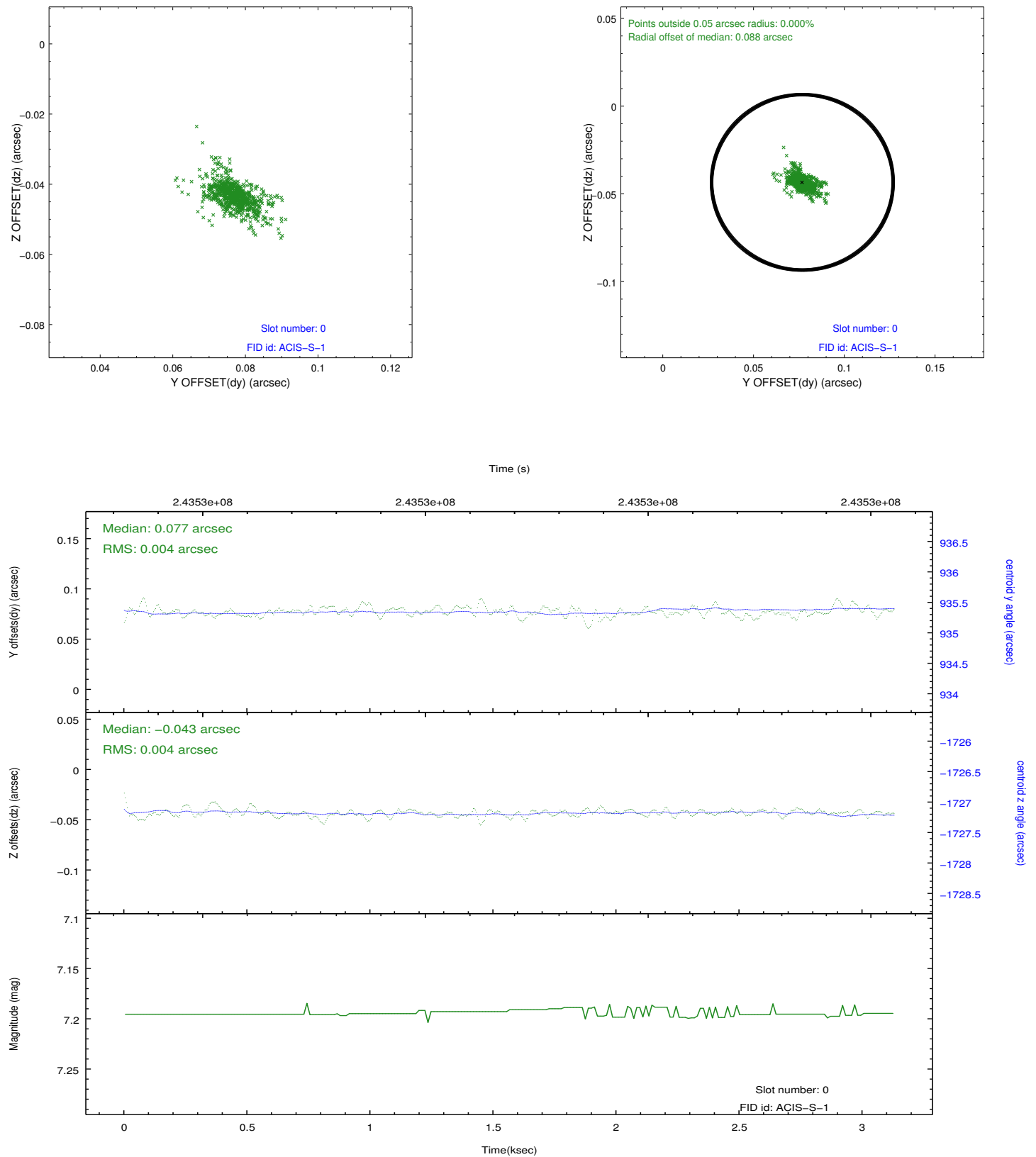


## 2.4.5 Slot 7

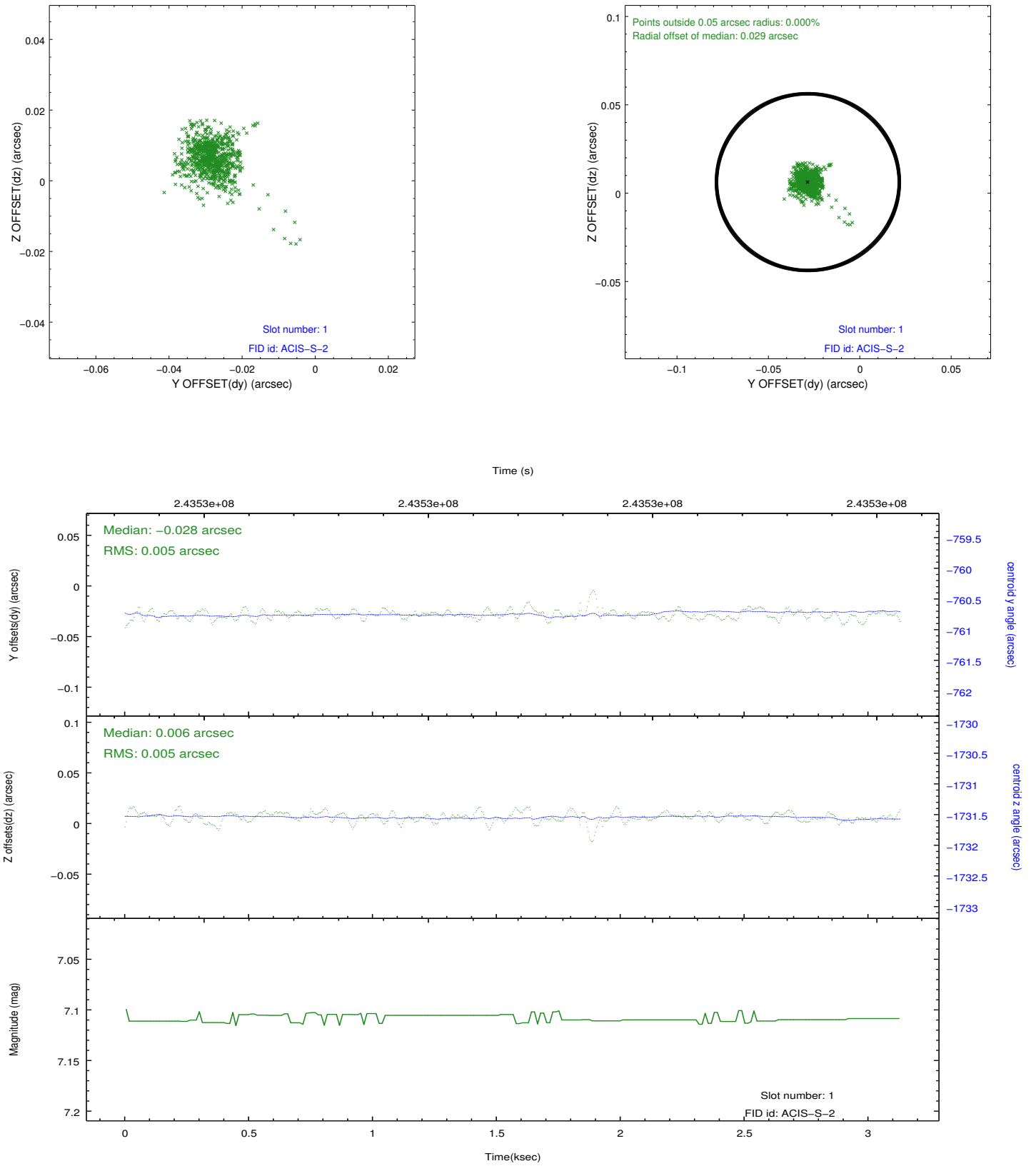


## 2.5 FID Slots

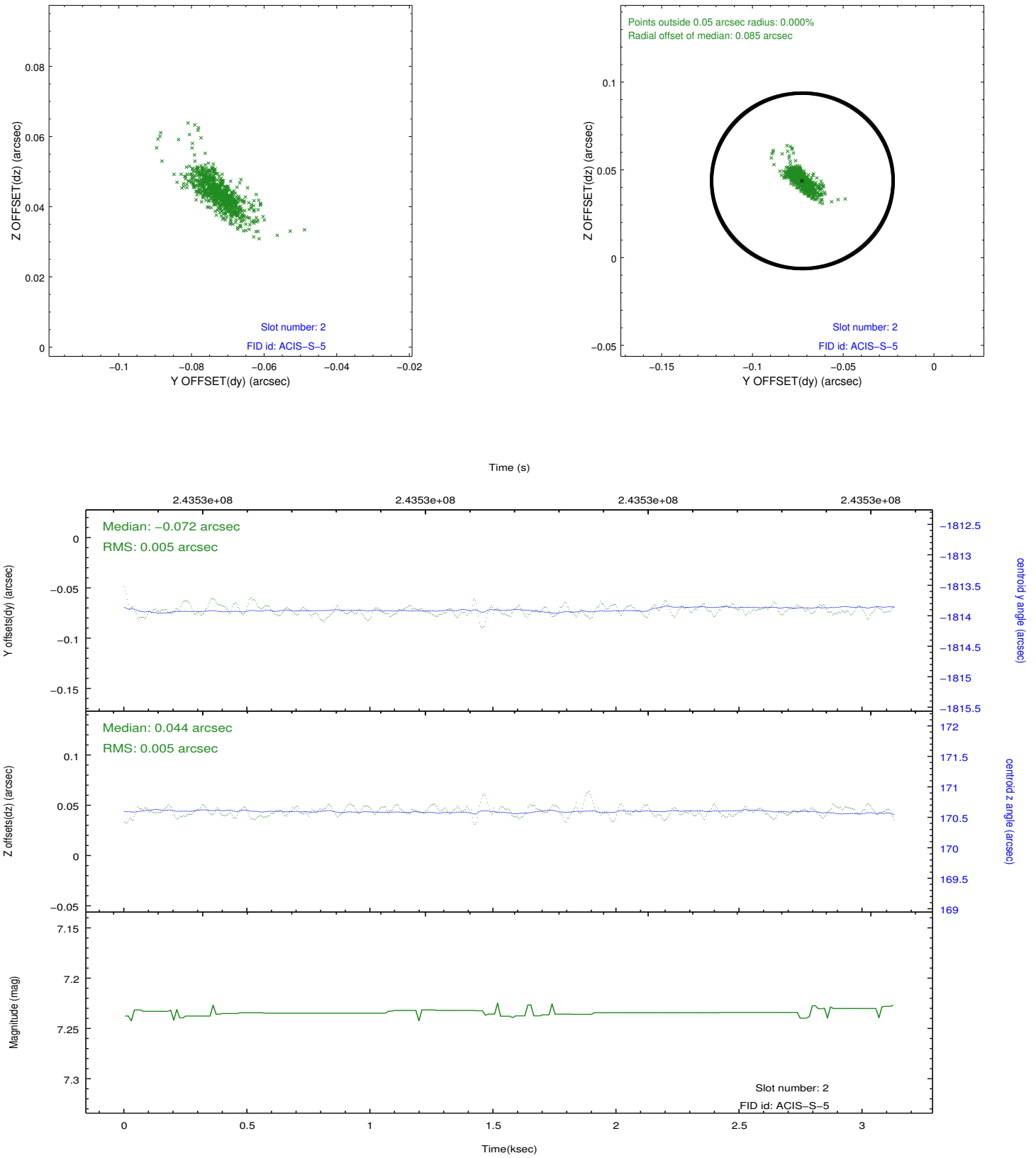
### 2.5.1 Slot 0



## 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)	2013.03.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1316

## A.2 Comments

Joint proposal with NRAO.

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files are incorrect by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct. If using the FP temp values in the headers of data files (some CIAO tools require this information), investigators should subtract 1.3 degrees from the reported temperature to determine the true temperature.