

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6303 - L2 Version 2  
Chandra X-Ray Center

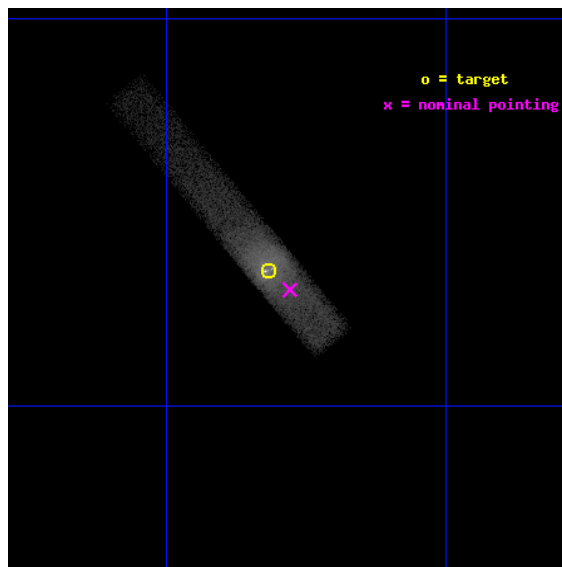
L2 Processing Date : Apr 2 2012

## 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

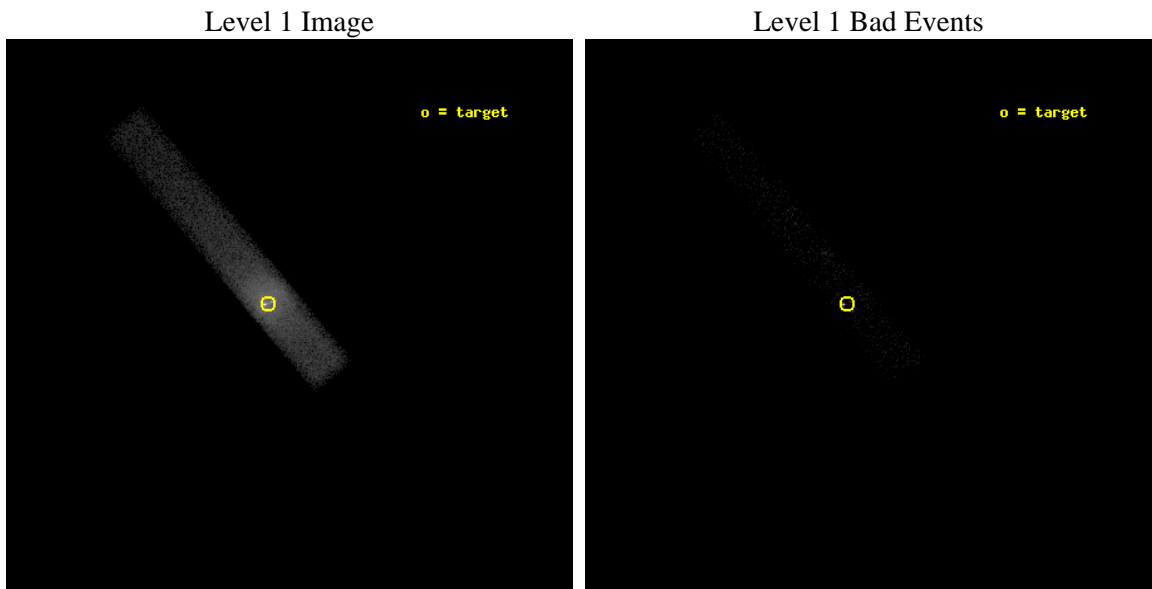
seq_num	701185	Sequence number
obs_id	6303	Observation id
title	HST / Chandra Monitoring of a Dramatic Flare in the M87 Jet	Propos
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69475589585	Nominal RA [deg]
dec_nom	12.383239141019	Nominal Dec [deg]
roll_nom	230.15864288108	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5181.6000771821	Sum of GTIs [s]
livetime	4699.4377627263	Livetime [s]
ontime7	5181.6000771821	Sum of GTIs [s]
l2events	57957	Number of level 2 events



## 2 OBI

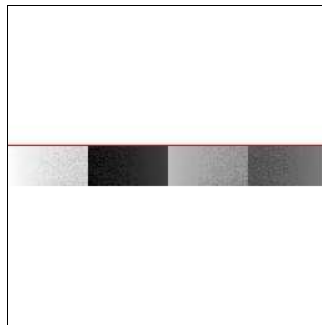
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5181.6000771821	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	5181.6000771821	Sum of GTIs [s]
date	2012-04-02T03:10:00	Date and time of file creation	l1events	67297	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	67297
rejected events	8702
rejected %	12%

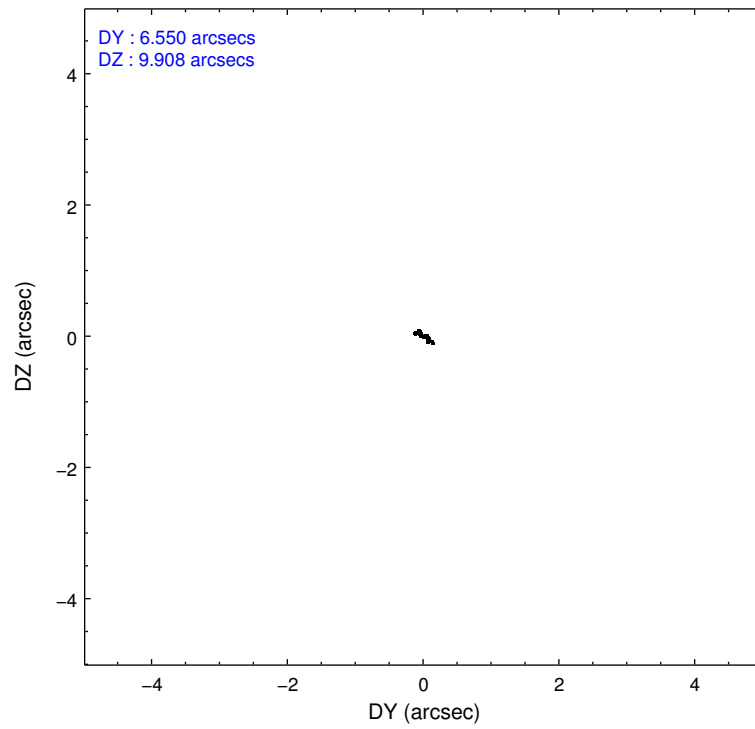
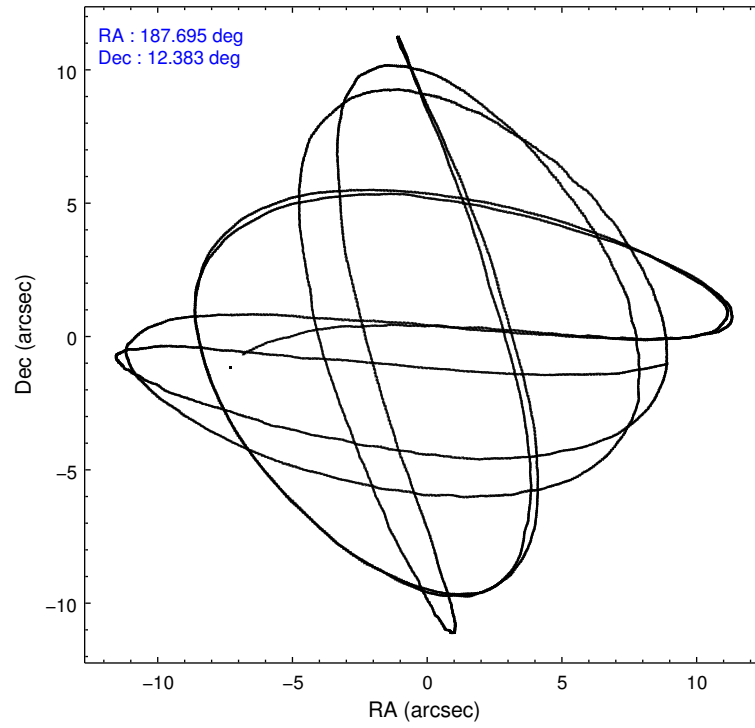
	<b>ccd 7</b>
grade 0 events	18248
	27%
grade 1 events	311
	0%
grade 2 events	15510
	23%
grade 3 events	6995
	10%
grade 4 events	6774
	10%
grade 5 events	1924
	2%
grade 6 events	12572
	18%
grade 7 events	4963
	7%

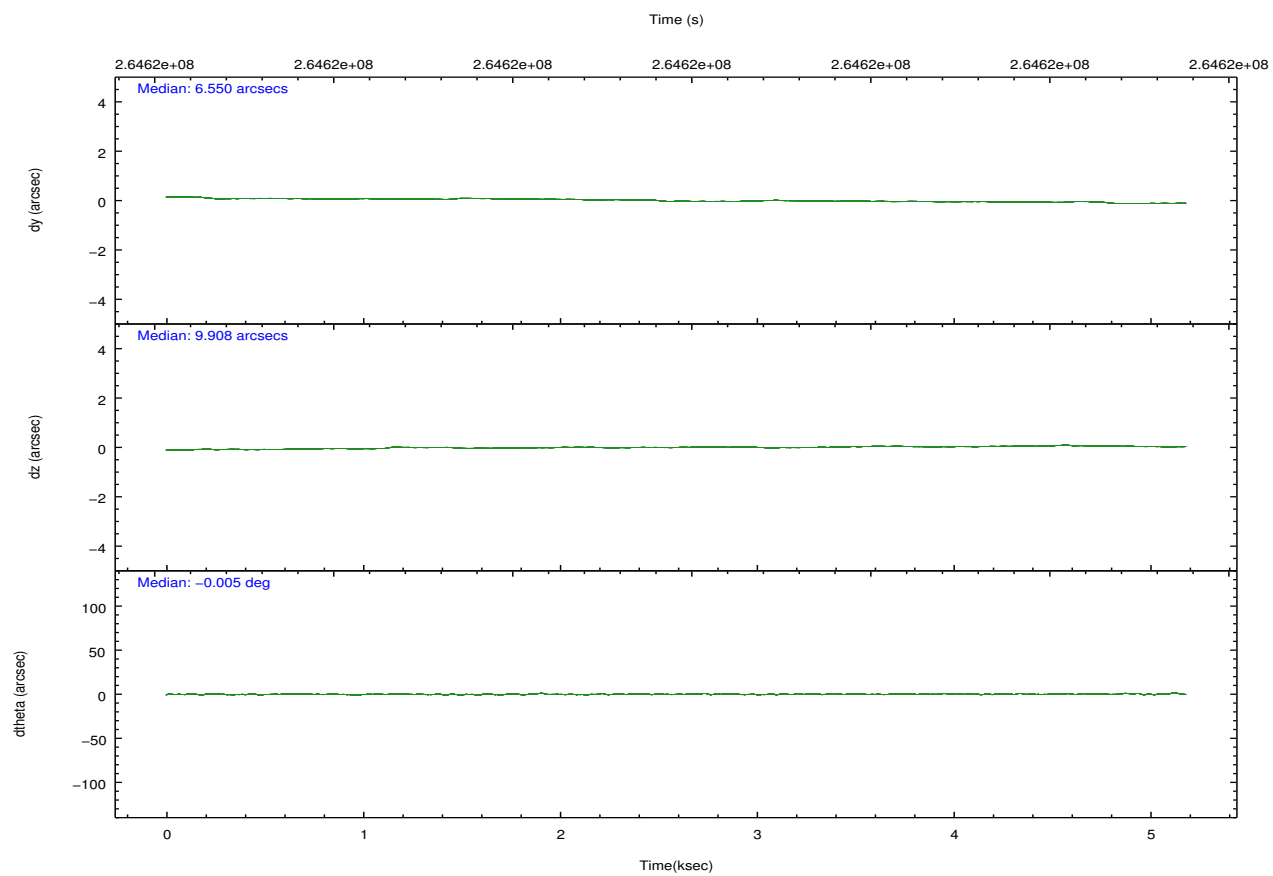
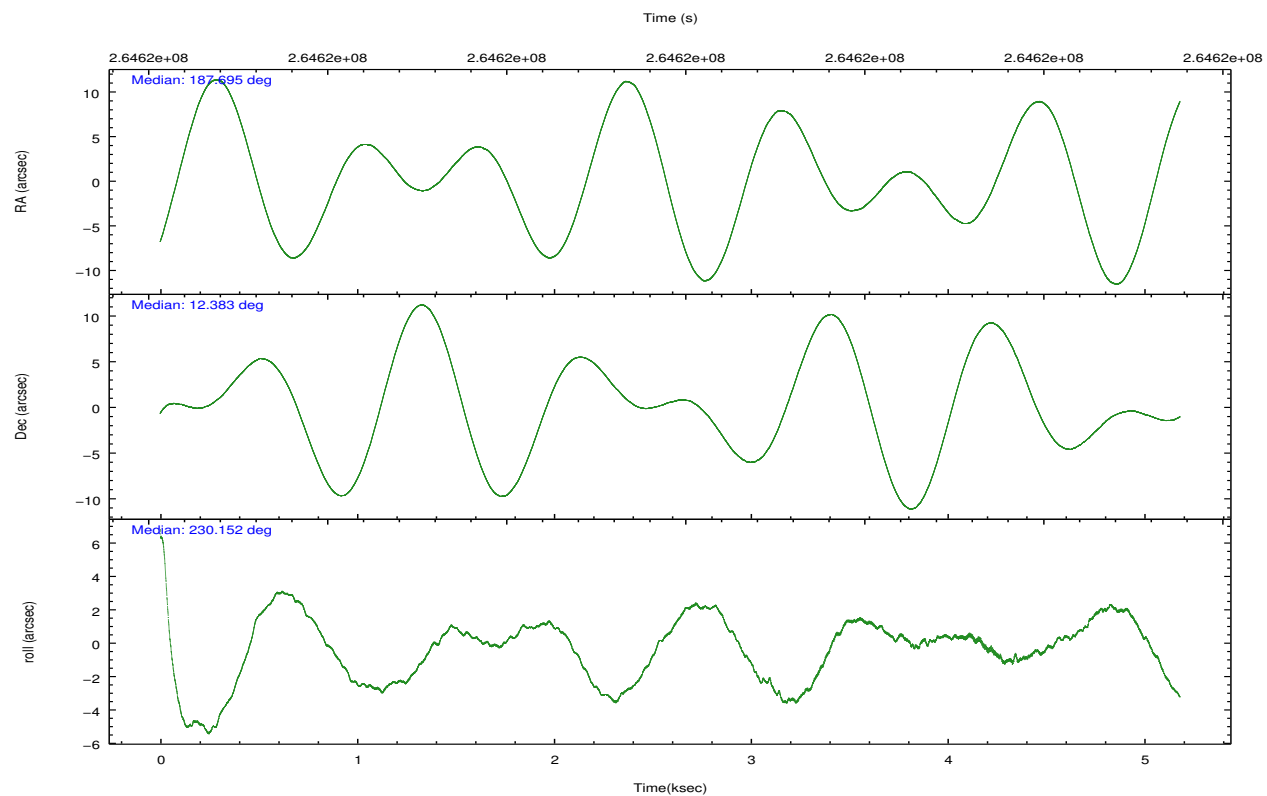


## 2.2 Compared Parameters

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	187.699116	187.6947558958542	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.410165	12.38323914101931	Subarray start row	449	449
[deg] Pointing Roll	230.001082	230.1586428810808	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)	264616498.184000	264615762.79371			
Observation start date	2006-05-21T16:33:53	2006-05-21T16:22:42			
[s] Observation end time (MET)	264621498.184000	264622051.6815			
Observation end date	2006-05-21T17:57:13	2006-05-21T18:07:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect



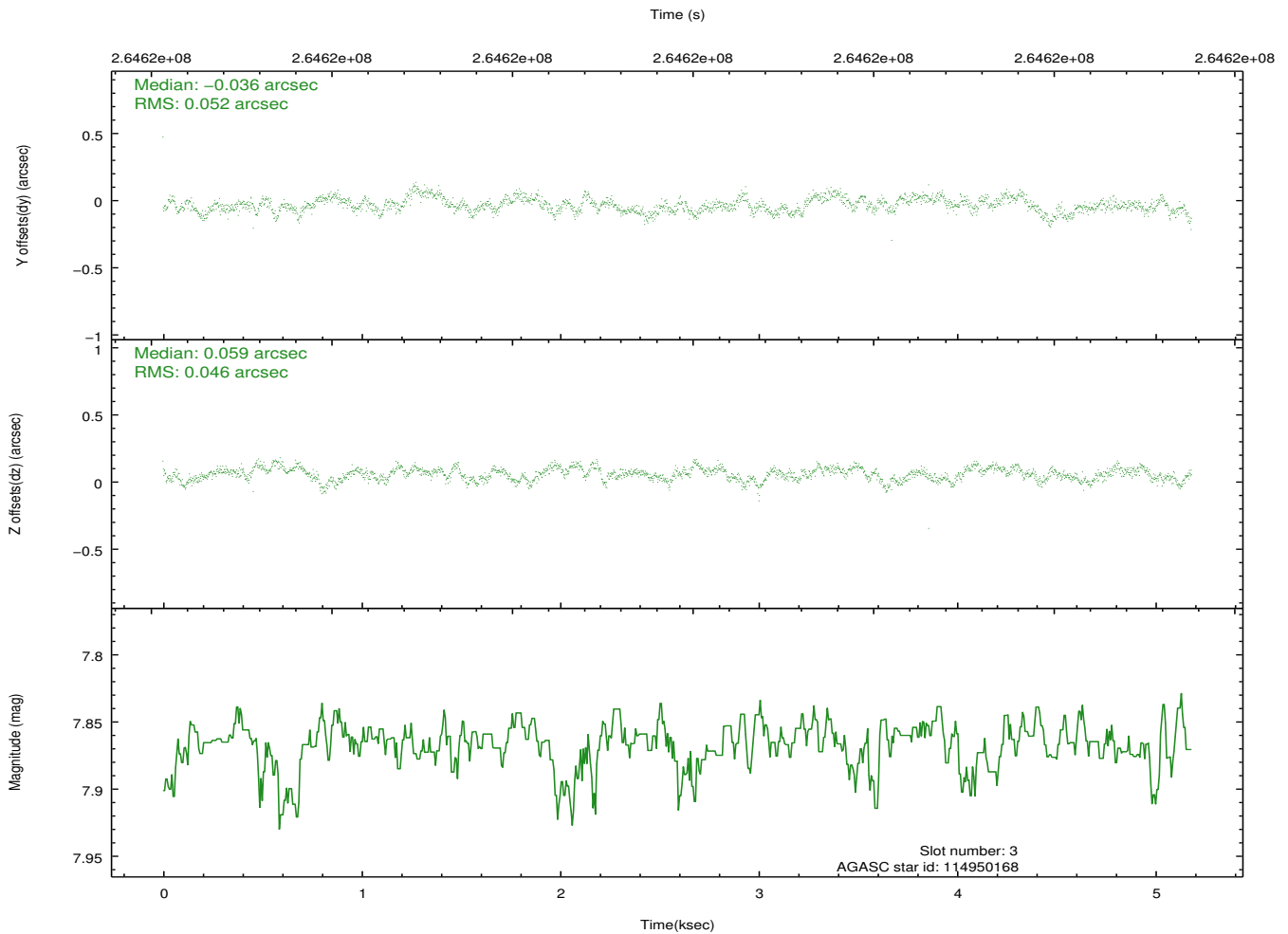
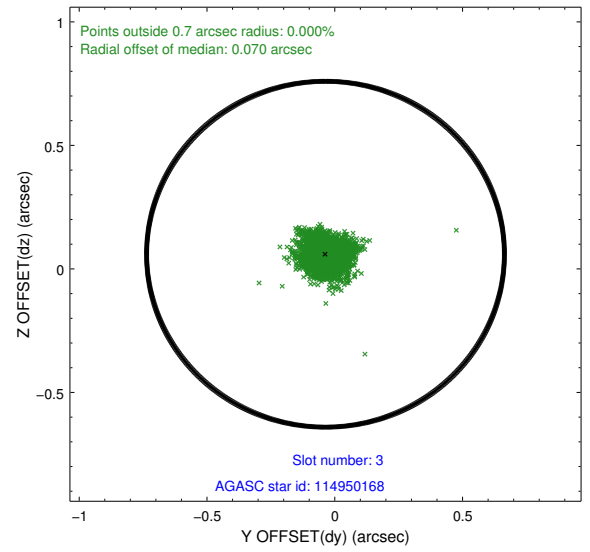
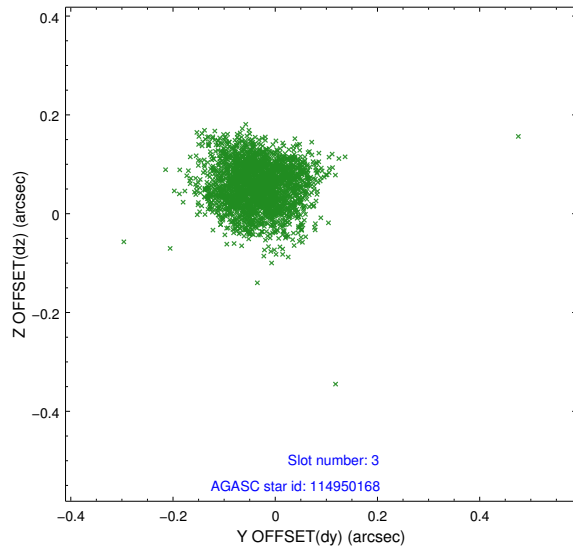


### Slot Statistics

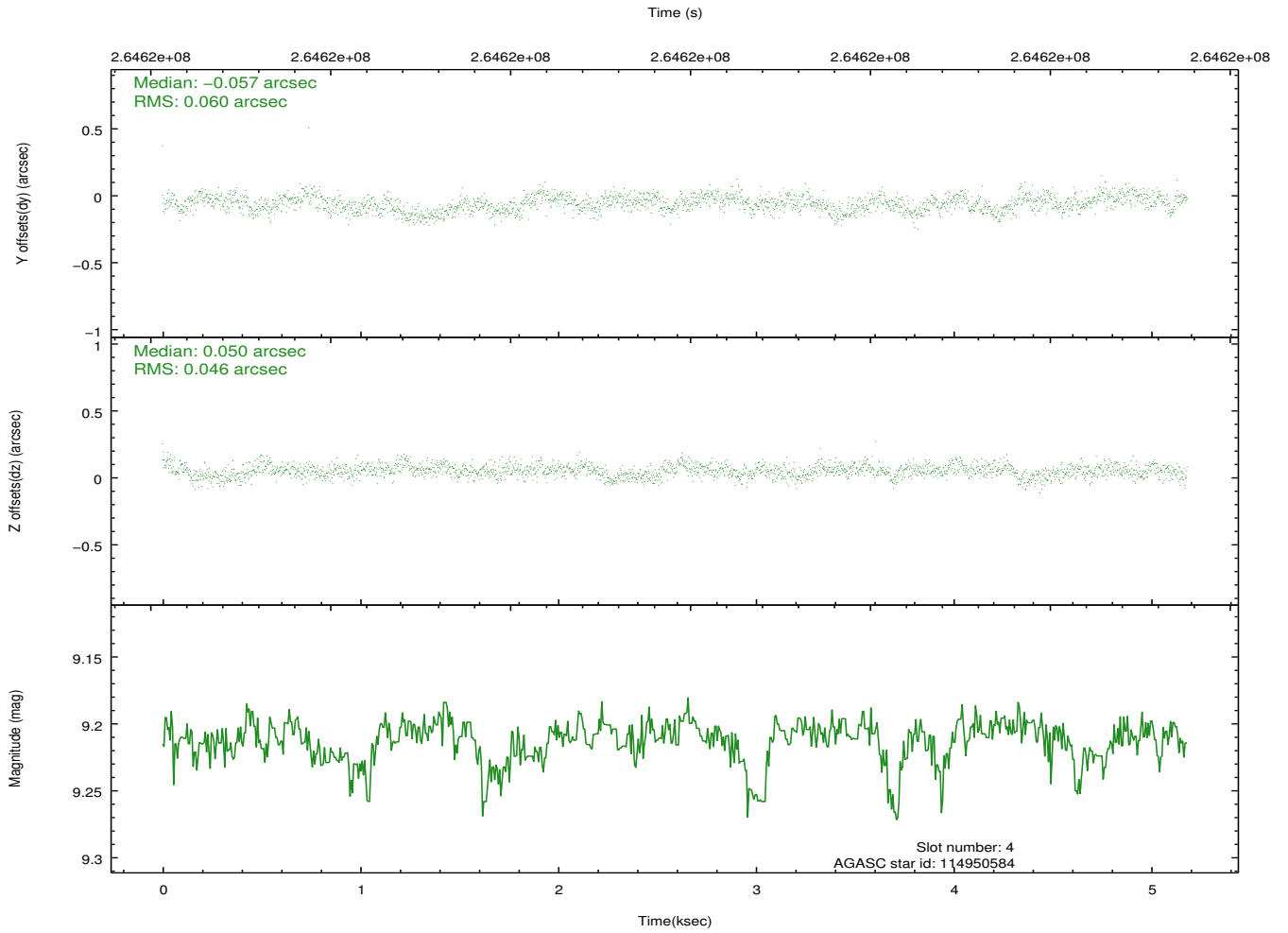
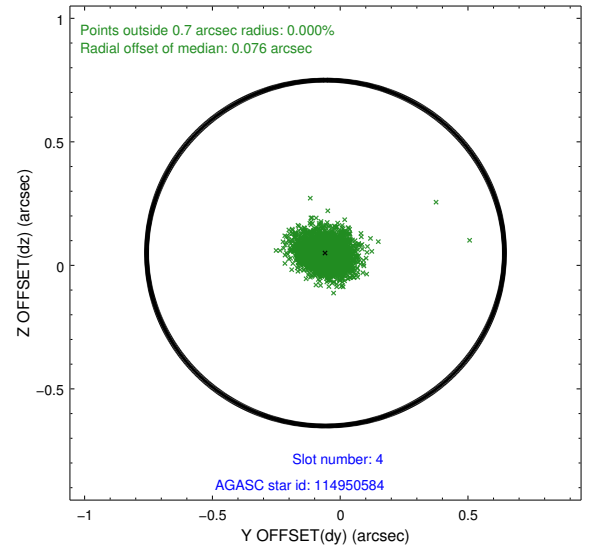
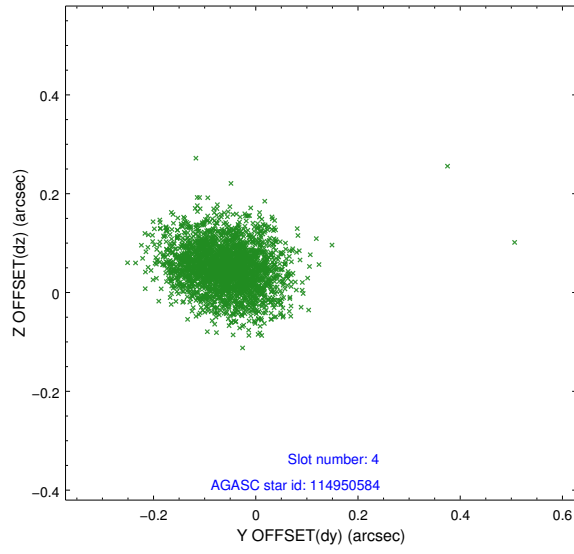
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1264	-0.072	-0.044	0.007	0.011	0.000000	0.000000	-759.33	-1731.21
1	FID	ACIS-S-4	7.21	1264	0.129	0.047	0.006	0.011	0.000000	0.000000	2153.58	176.22
2	FID	ACIS-S-5	7.23	1264	-0.088	0.006	0.006	0.011	0.000000	0.000000	-1810.73	171.10
3	GUIDE	114950168	7.87	2529	-0.036	0.059	0.073	0.118	187.143398	12.117441	2063.53	-822.08
4	GUIDE	114950584	9.21	2524	-0.057	0.050	0.080	0.127	187.487323	11.827248	2088.26	776.75
5	GUIDE	114952824	8.57	2528	-0.040	0.138	0.078	0.128	187.703904	12.486727	-220.58	-164.12
6	GUIDE	114954440	9.18	2527	0.082	-0.112	0.100	0.163	186.915066	12.219118	2297.33	-1673.29
7	GUIDE	114955056	8.32	2528	0.048	-0.136	0.068	0.106	187.914001	12.127854	293.40	1231.52

## 2.4 Star Slots

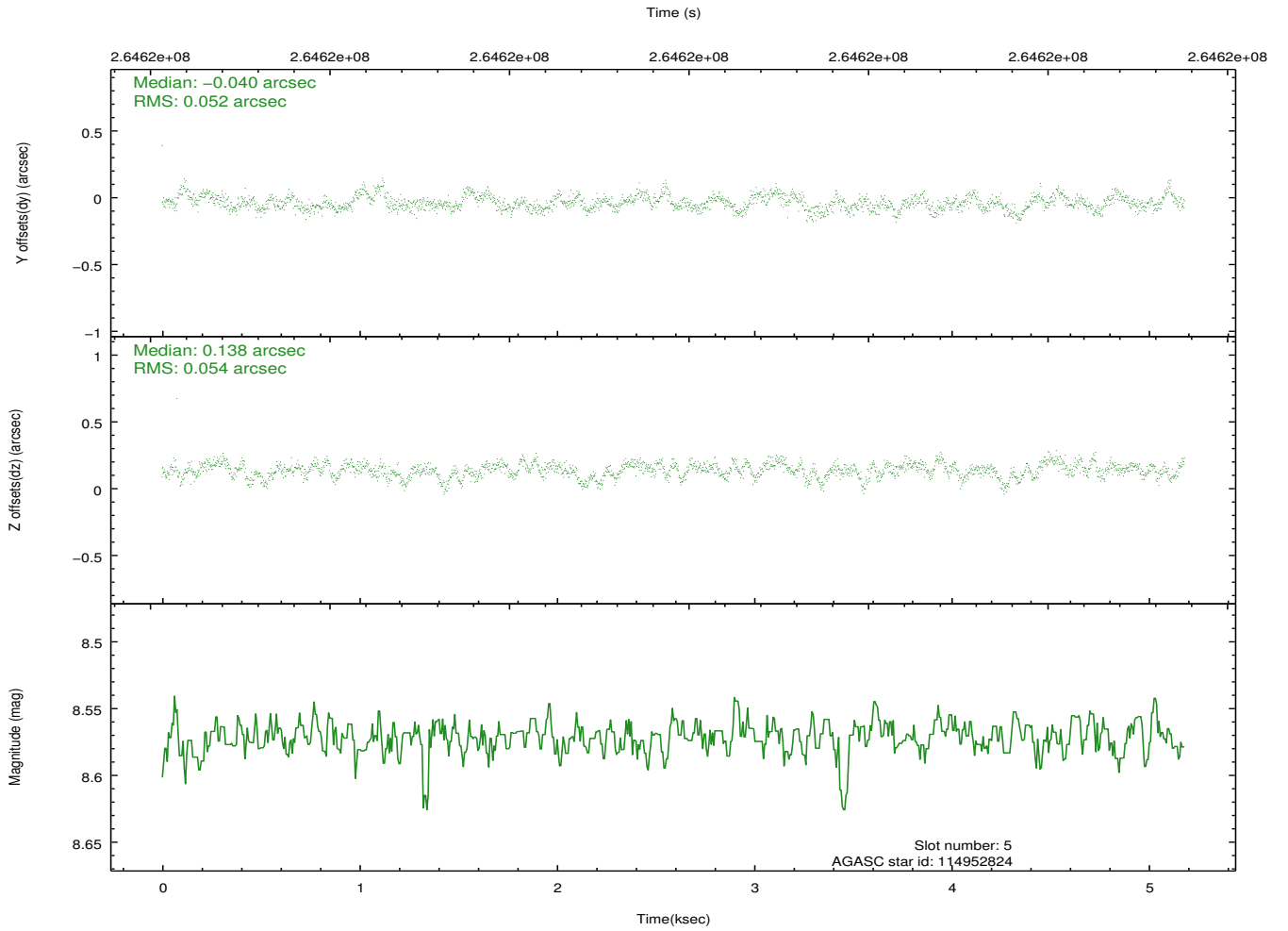
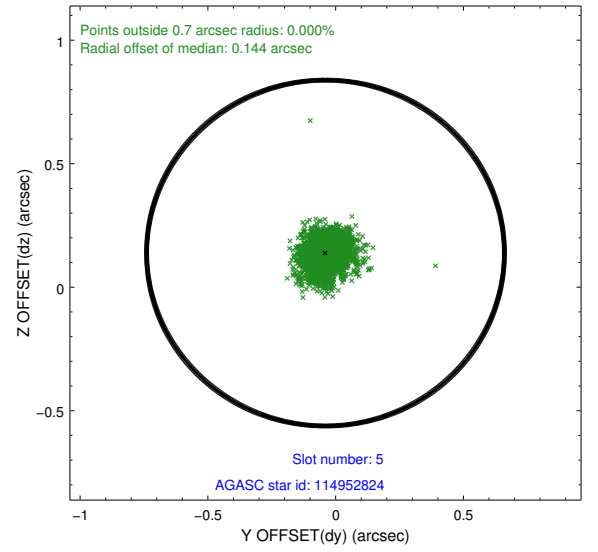
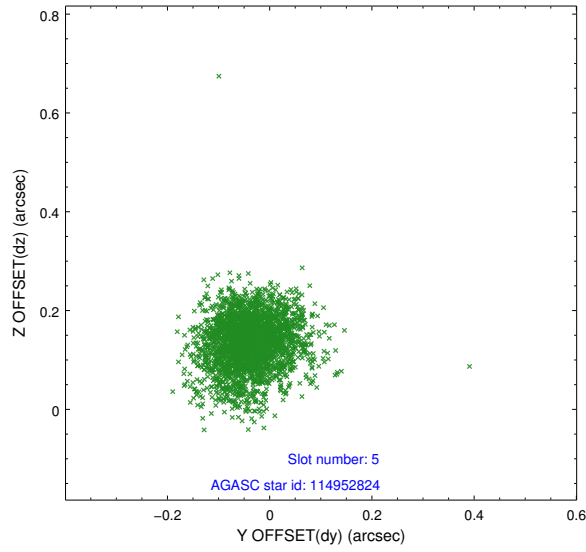
### 2.4.1 Slot 3



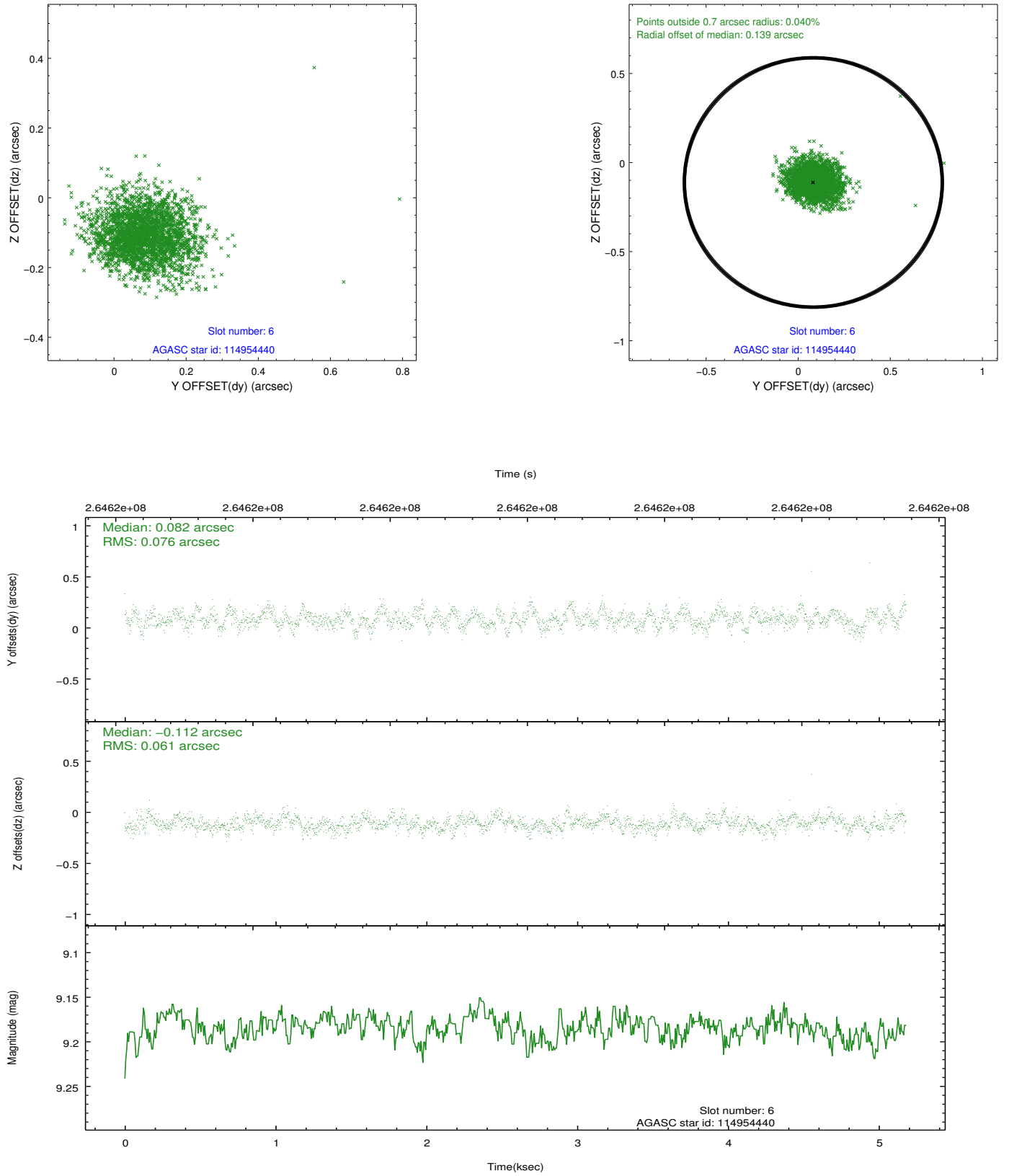
## 2.4.2 Slot 4



### 2.4.3 Slot 5

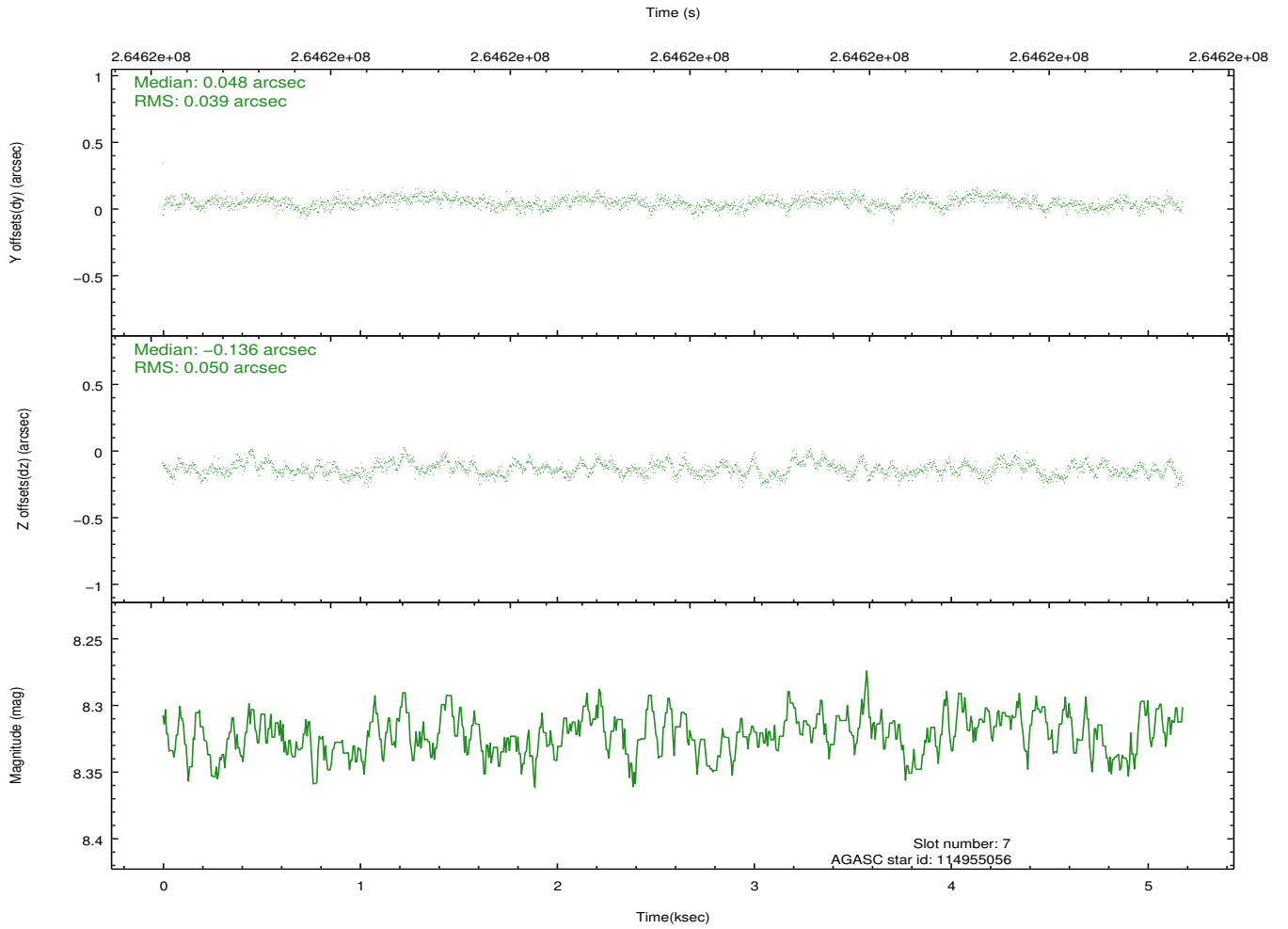
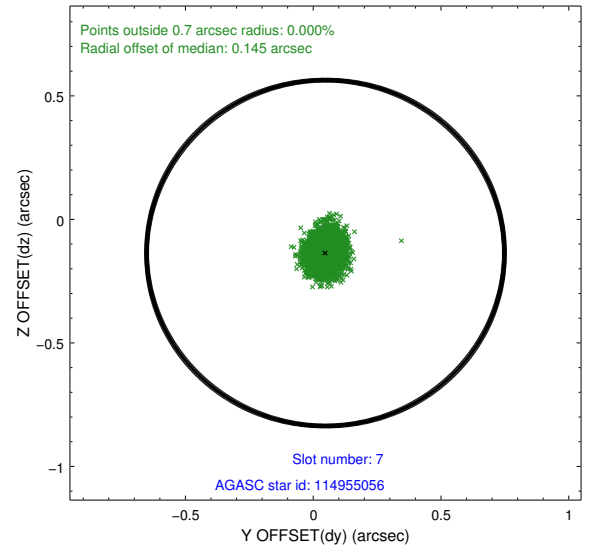
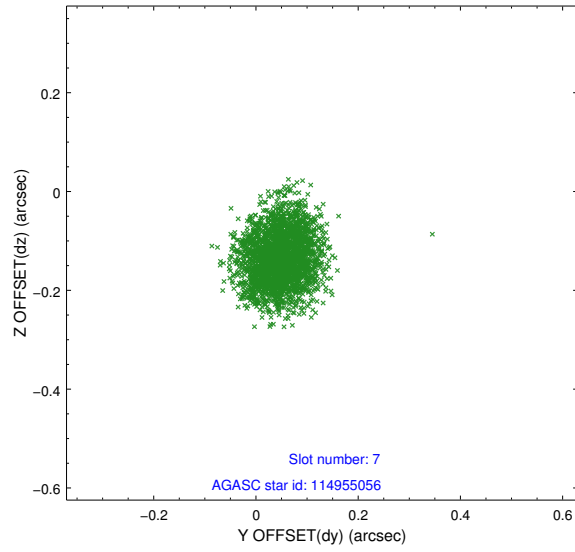


## 2.4.4 Slot 6



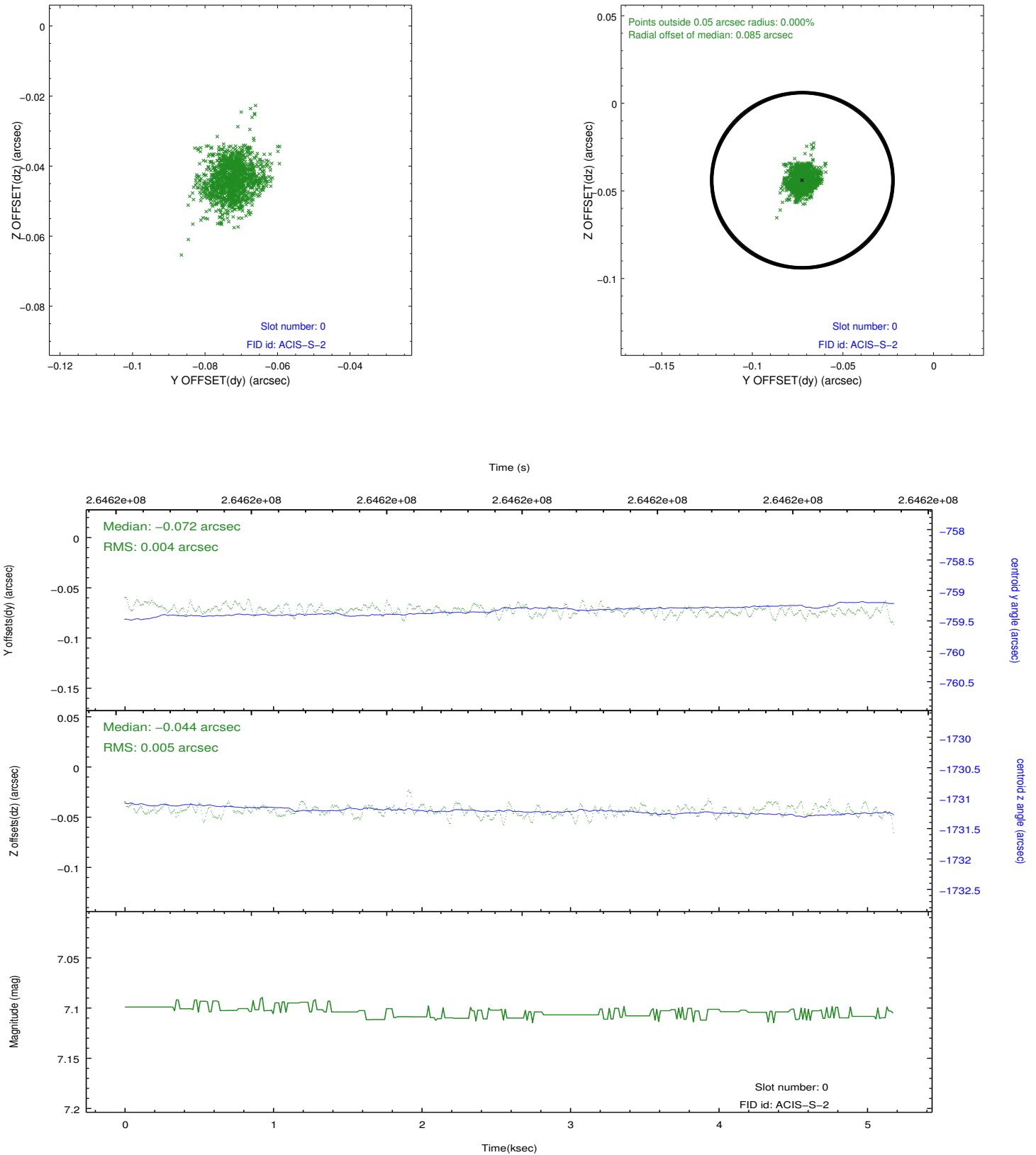


## 2.4.5 Slot 7

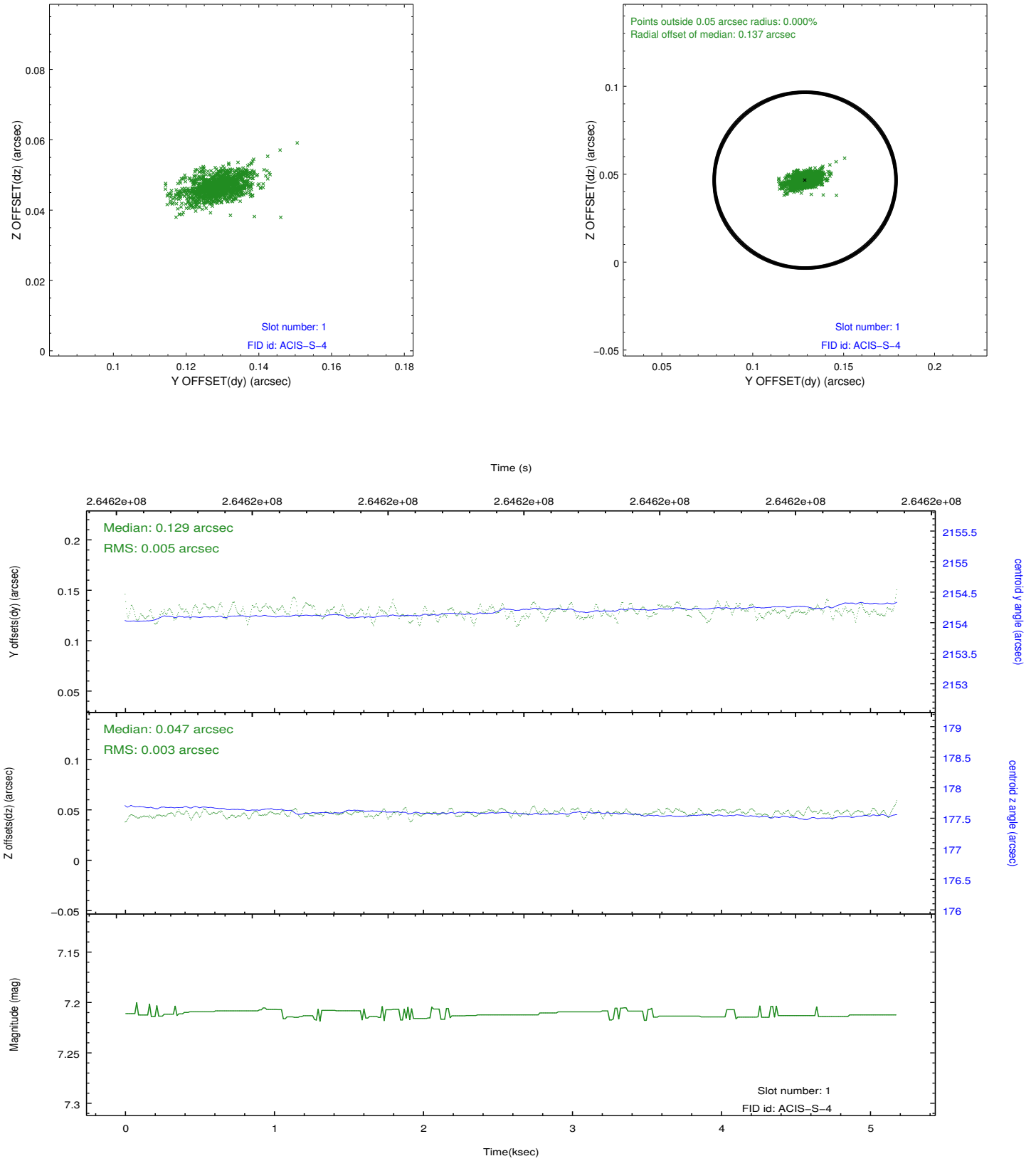


## 2.5 FID Slots

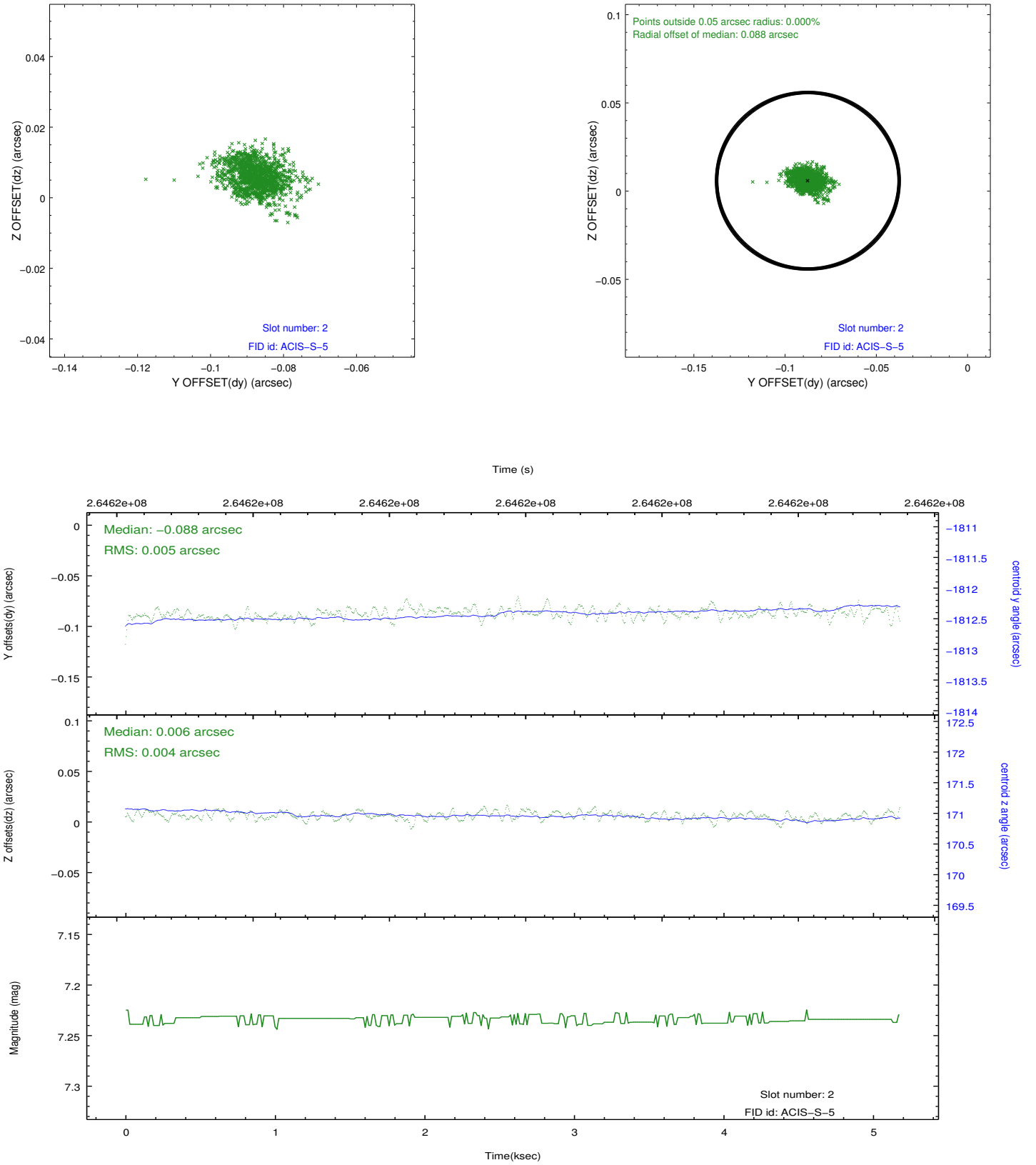
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18160007

## A.2 Comments

Joint Proposal: CX0-HST