

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8580 - L2 Version 2  
Chandra X-Ray Center

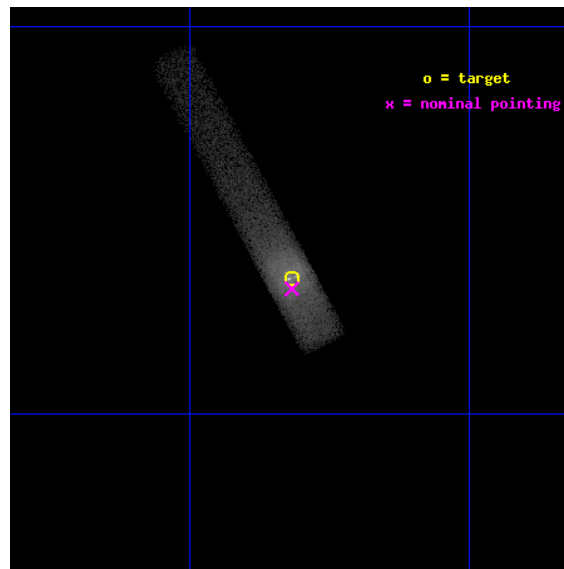
L2 Processing Date : May 16 2012

## 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

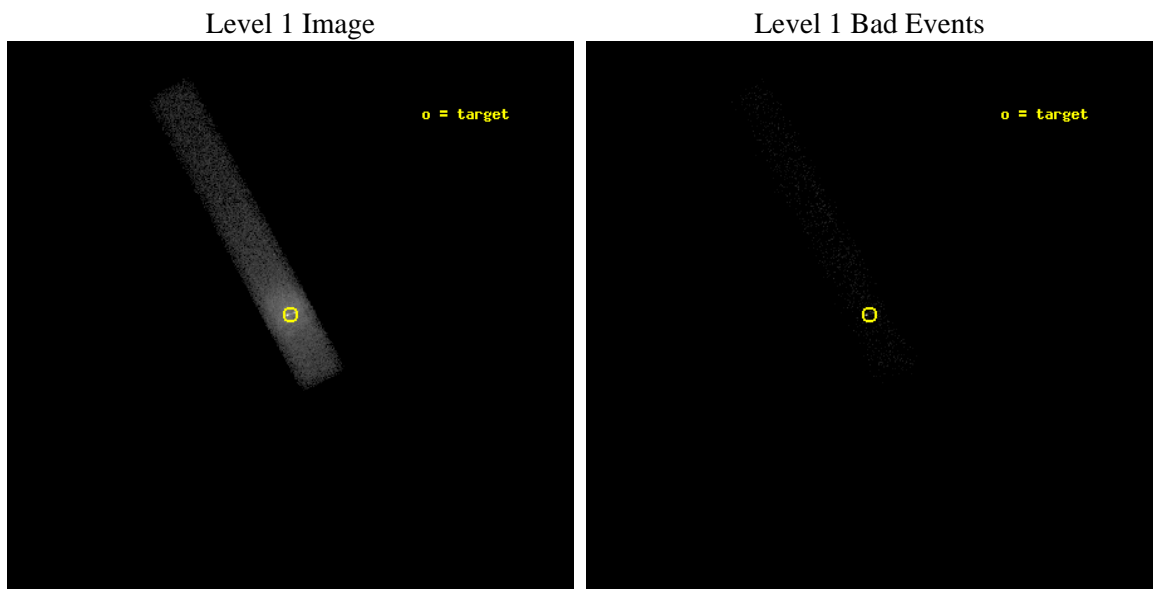
seq_num	701589	Sequence number
obs_id	8580	Observation id
title	Monitoring the Giant Flare of HST-1 in the M87 Jet	Proposal title
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70445815899	Nominal RA [deg]
dec_nom	12.386929547391	Nominal Dec [deg]
roll_nom	241.65656581556	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5187.1996908188	Sum of GTIs [s]
livetime	4704.516316723	Livetime [s]
ontime7	5187.1996908188	Sum of GTIs [s]
l2events	53736	Number of level 2 events



## 2 OBI

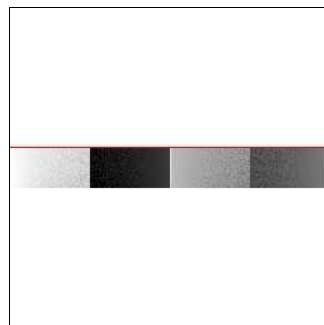
### 2.1 OBI

#### 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	8.4.4	Processing system revision	ontime	5187.1996908188	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	5187.1996908188	Sum of GTIs [s]
date	2012-05-17T02:21:04	Date and time of file creation	l1events	62737	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	62737
rejected events	8367
rejected %	13%

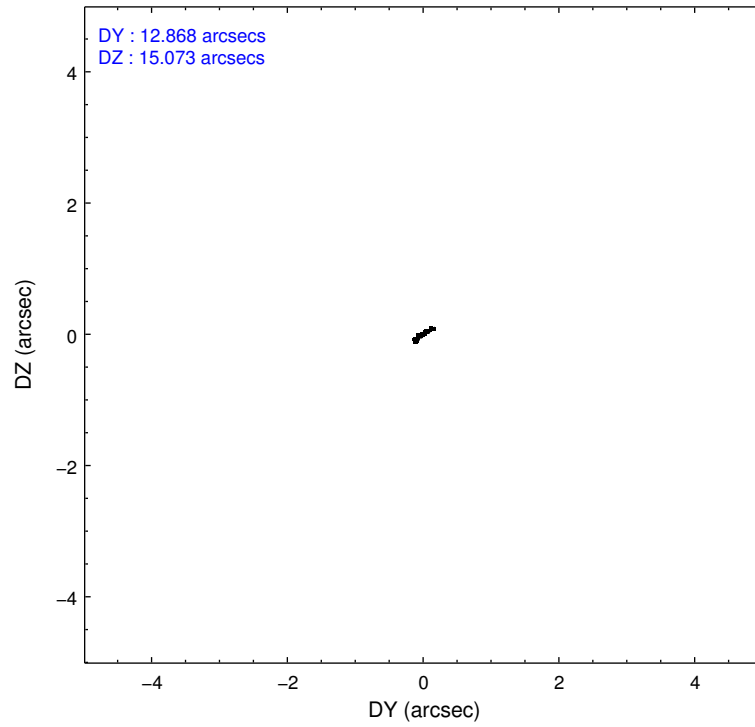
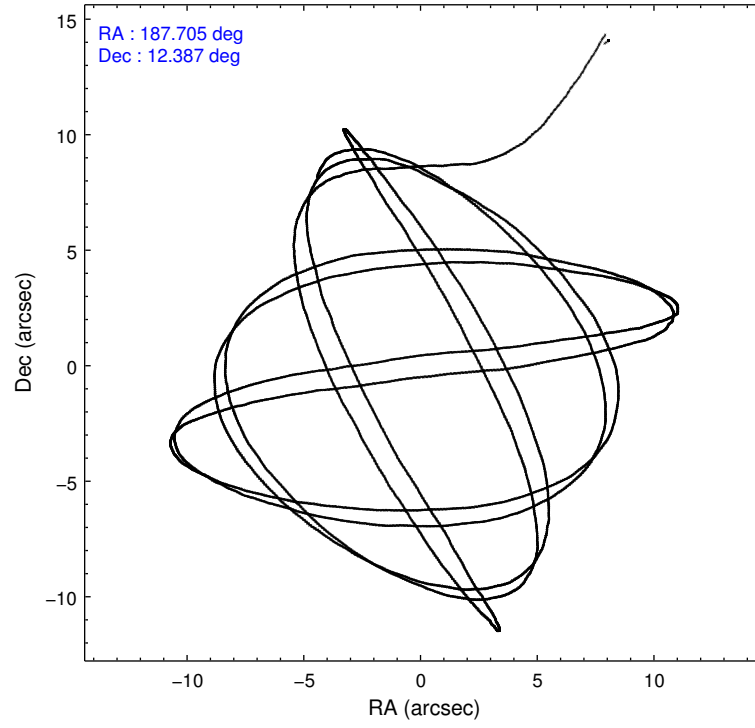
	<b>ccd 7</b>
grade 0 events	16483
	26%
grade 1 events	169
	0%
grade 2 events	14510
	23%
grade 3 events	6688
	10%
grade 4 events	6481
	10%
grade 5 events	1653
	2%
grade 6 events	11809
	18%
grade 7 events	4944
	7%

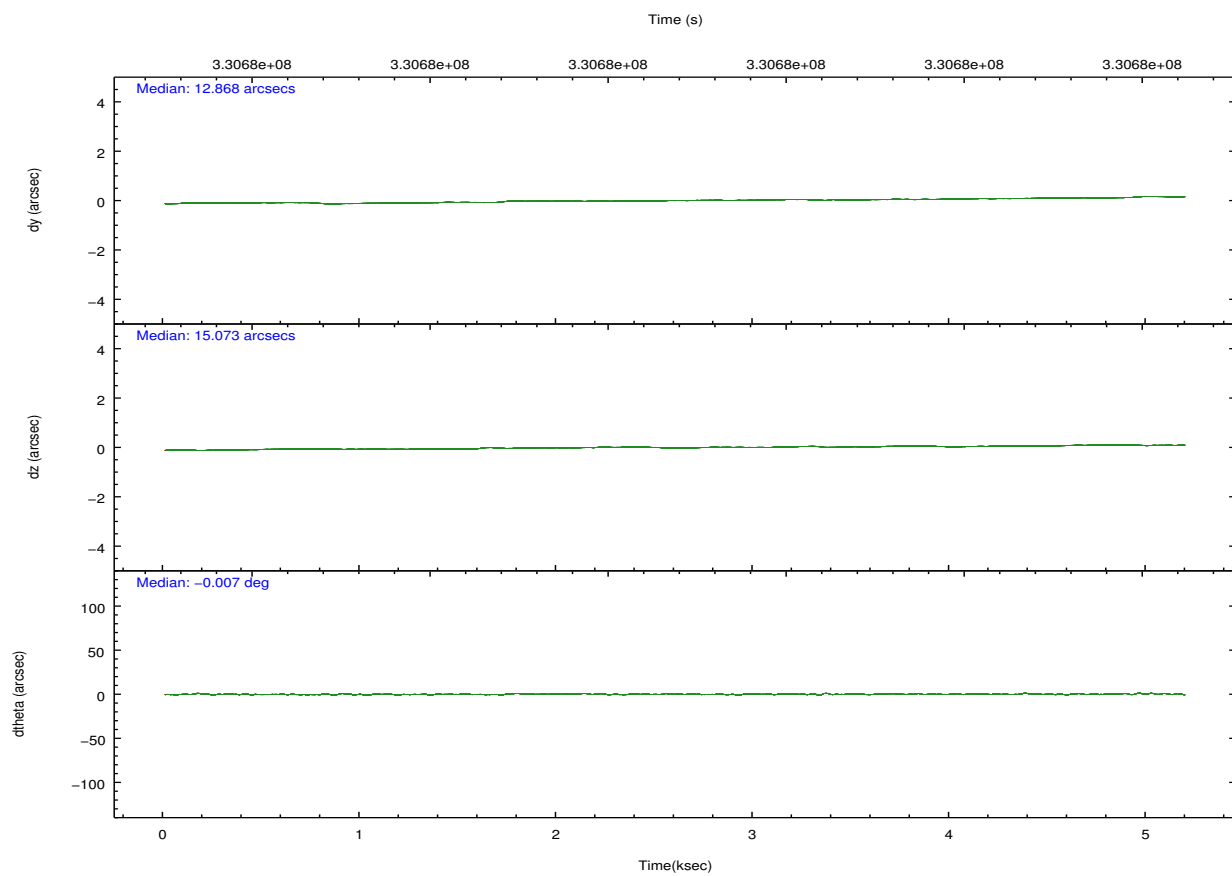
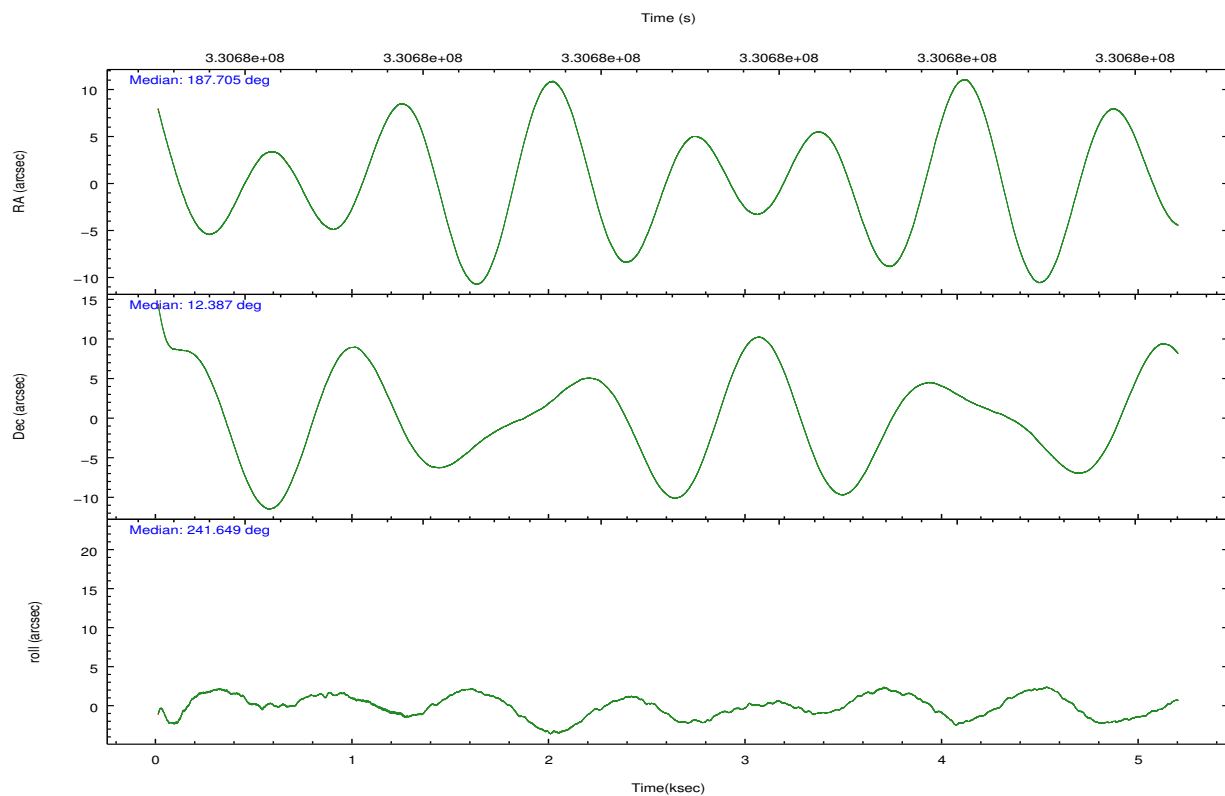


## 2.2 Compared Parameters

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	187.703261	187.7044581589915	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.414147	12.38692954739112	Subarray start row	449	449
[deg] Pointing Roll	241.500190	241.6565658155587	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	330676970.184000	330676074.48964			
Observation start date	2008-06-24T06:41:45	2008-06-24T06:27:54			
[s] Observation end time (MET)	330681970.184000	330682822.06497			
Observation end date	2008-06-24T08:05:05	2008-06-24T08:20:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect



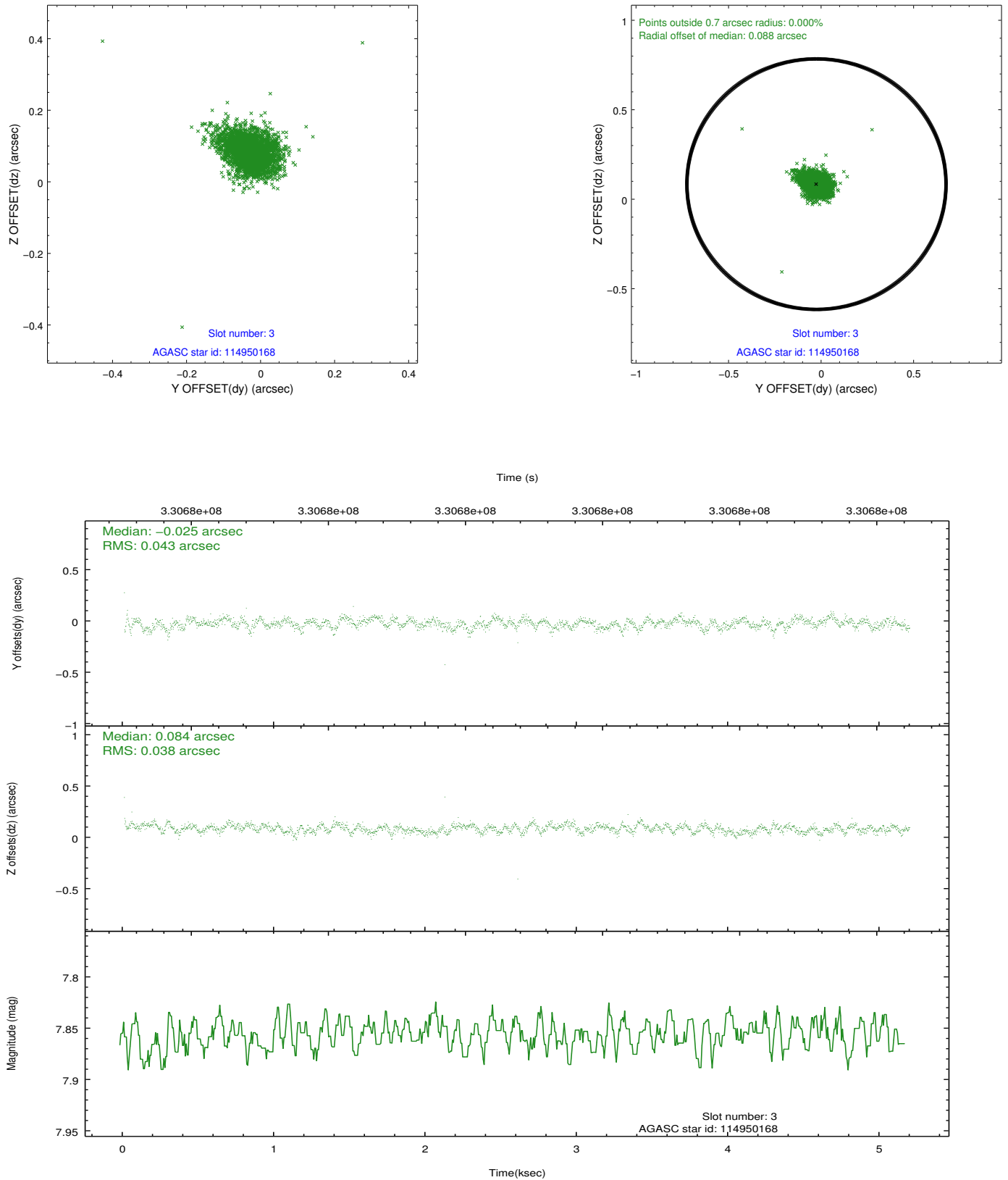


### Slot Statistics

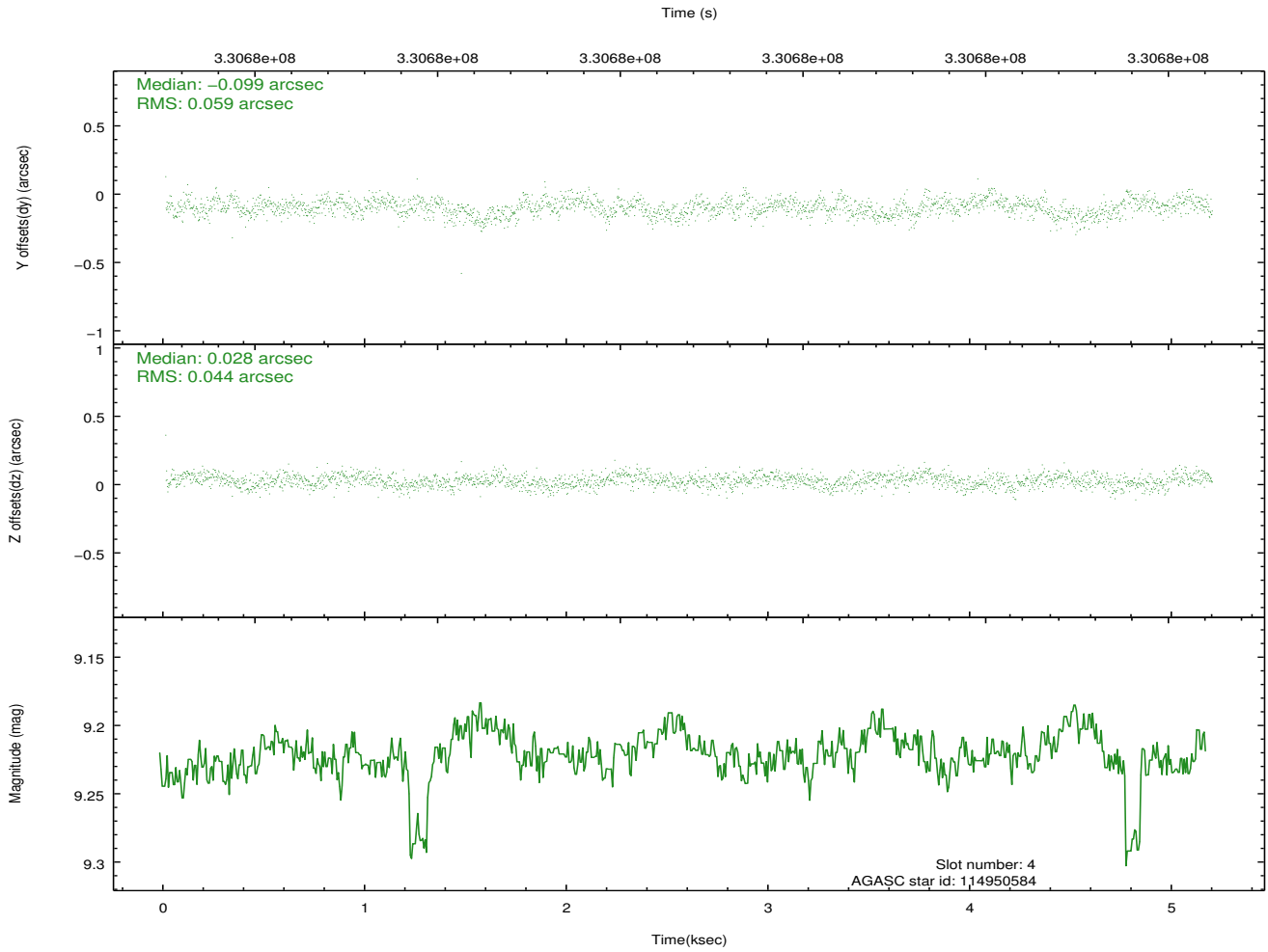
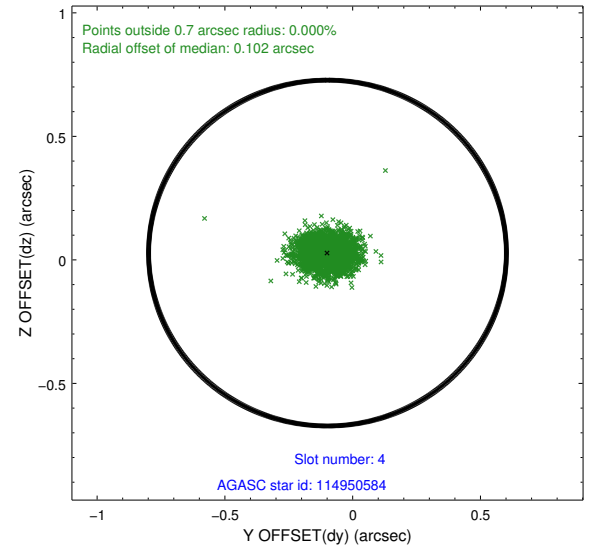
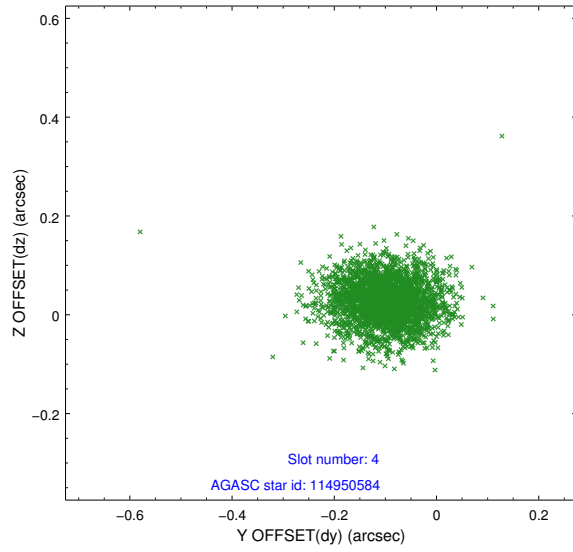
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.96	1266	0.046	-0.030	0.007	0.013	0.000000	0.000000	930.34	-1732.04
1	FID	ACIS-S-5	6.99	1266	-0.092	0.032	0.007	0.013	0.000000	0.000000	-1818.18	164.32
2	FID	ACIS-S-6	7.08	1266	0.025	0.010	0.009	0.014	0.000000	0.000000	394.56	809.62
3	GUIDE	114950168	7.86	2531	-0.025	0.084	0.057	0.095	187.143398	12.117441	1878.18	-1222.51
4	GUIDE	114950584	9.22	2529	-0.099	0.028	0.078	0.126	187.487323	11.827248	2221.10	339.16
5	GUIDE	114952824	8.58	2531	-0.034	0.213	0.063	0.101	187.703904	12.486727	-228.92	-122.42
6	GUIDE	114955056	8.29	2532	0.034	-0.216	0.057	0.097	187.914001	12.127854	552.15	1143.42
7	GUIDE	114957008	8.25	2531	0.124	-0.109	0.081	0.134	186.894794	12.099160	2352.40	-1961.60

## 2.4 Star Slots

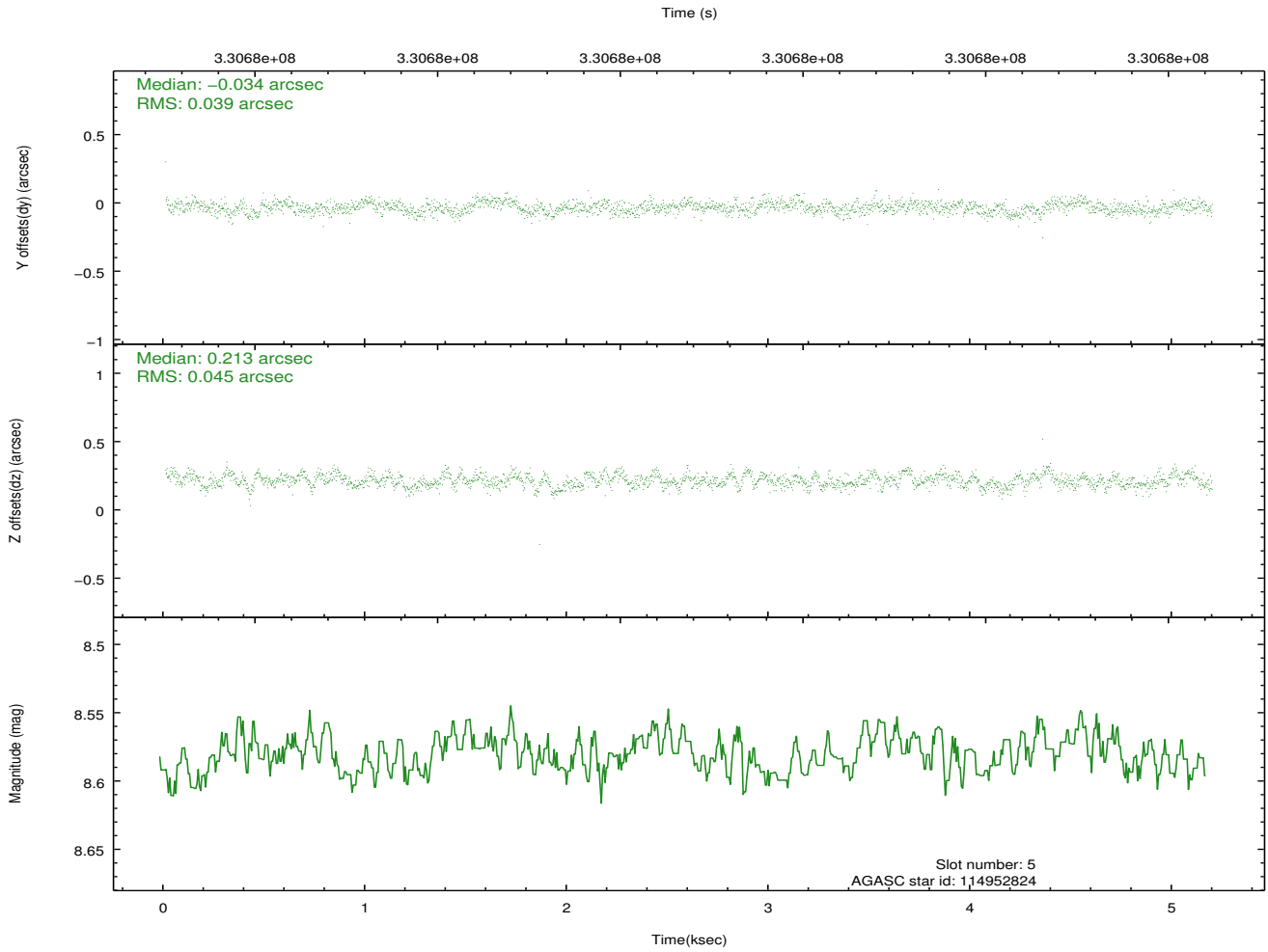
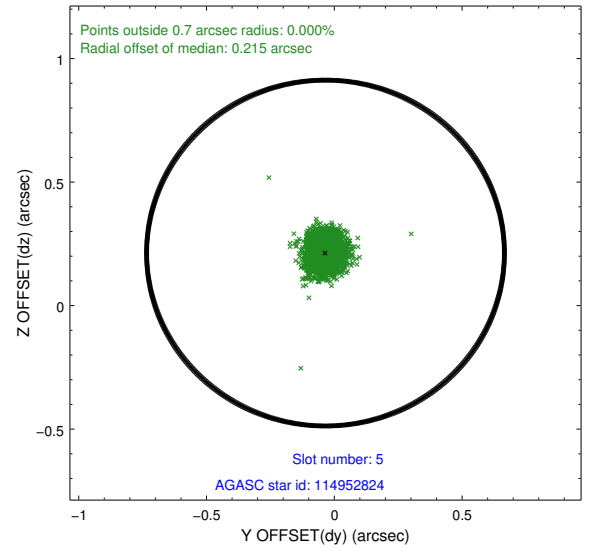
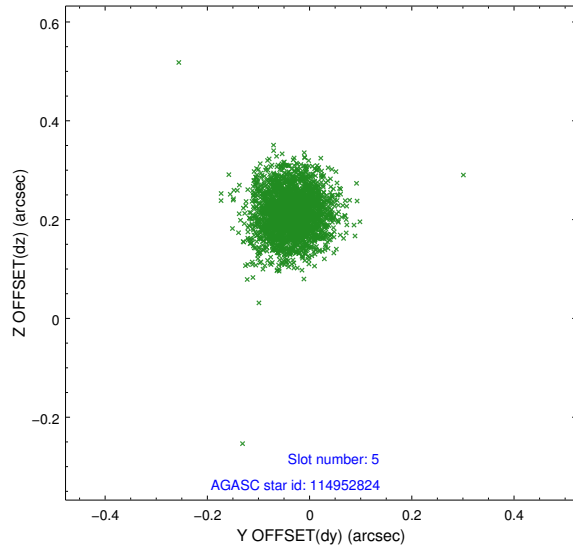
### 2.4.1 Slot 3



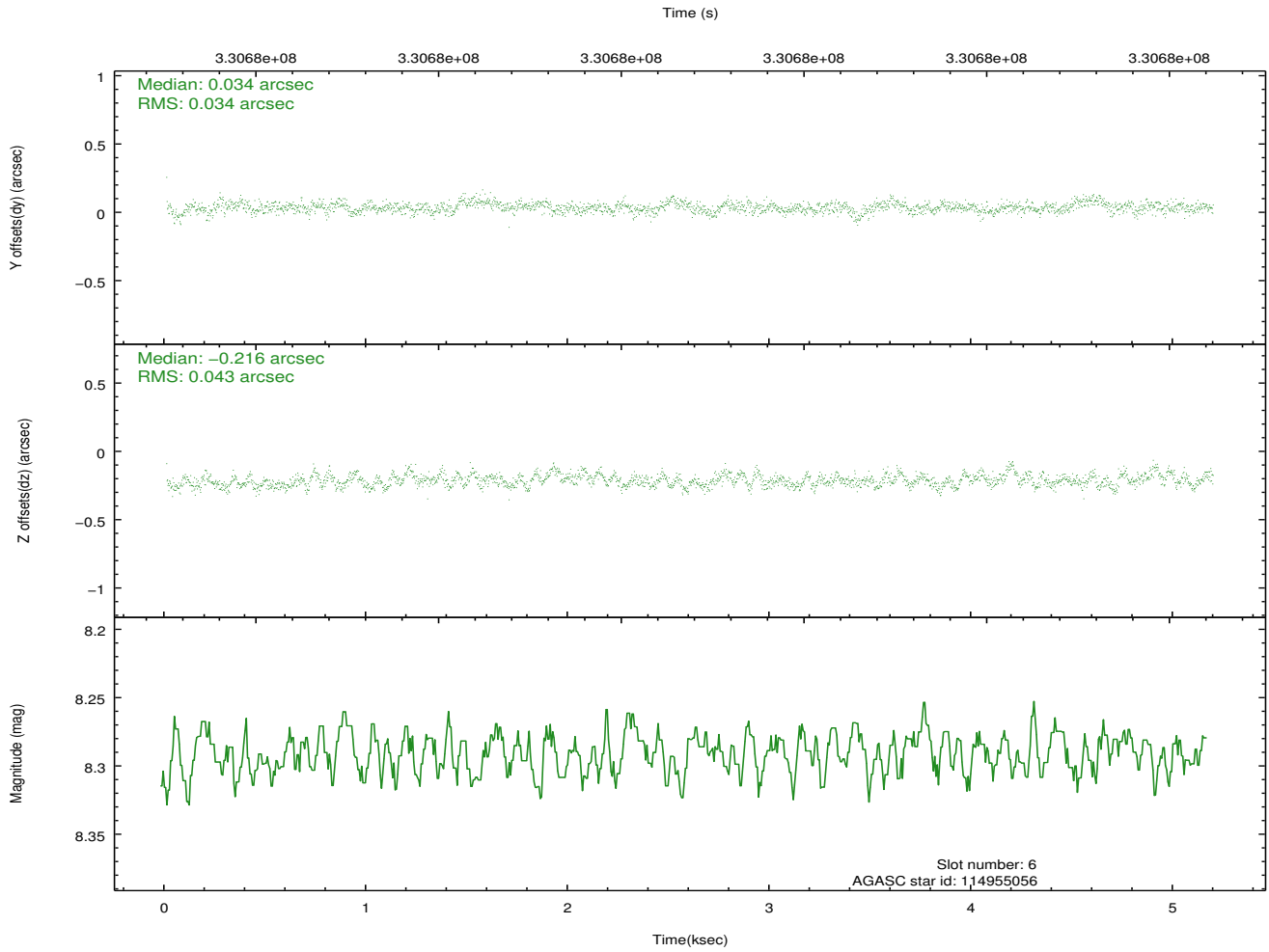
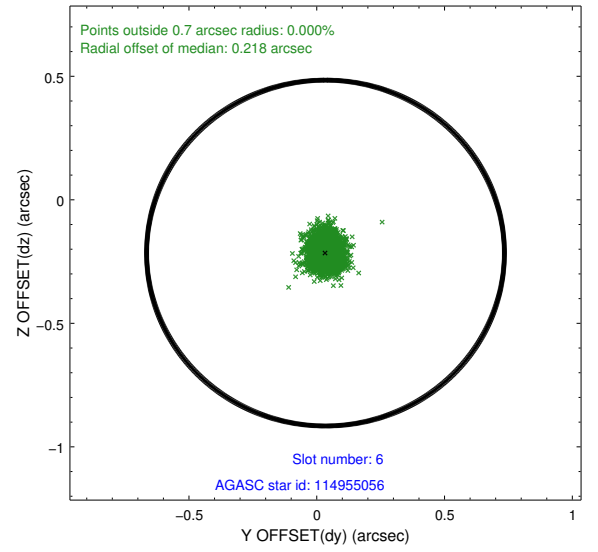
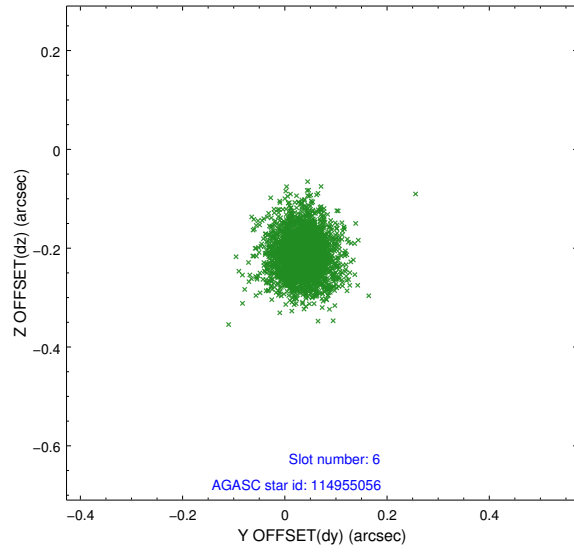
## 2.4.2 Slot 4



### 2.4.3 Slot 5

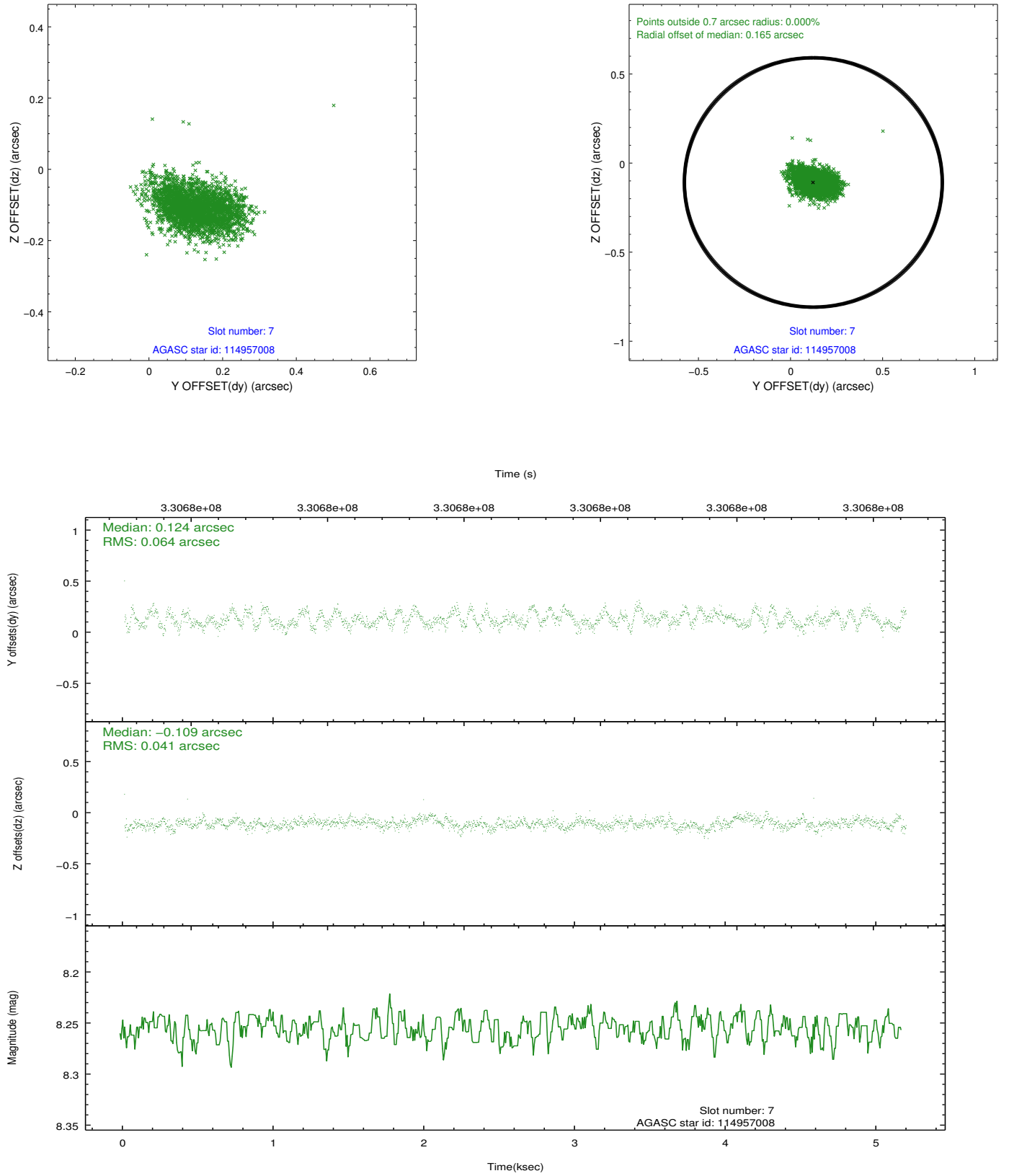


## 2.4.4 Slot 6



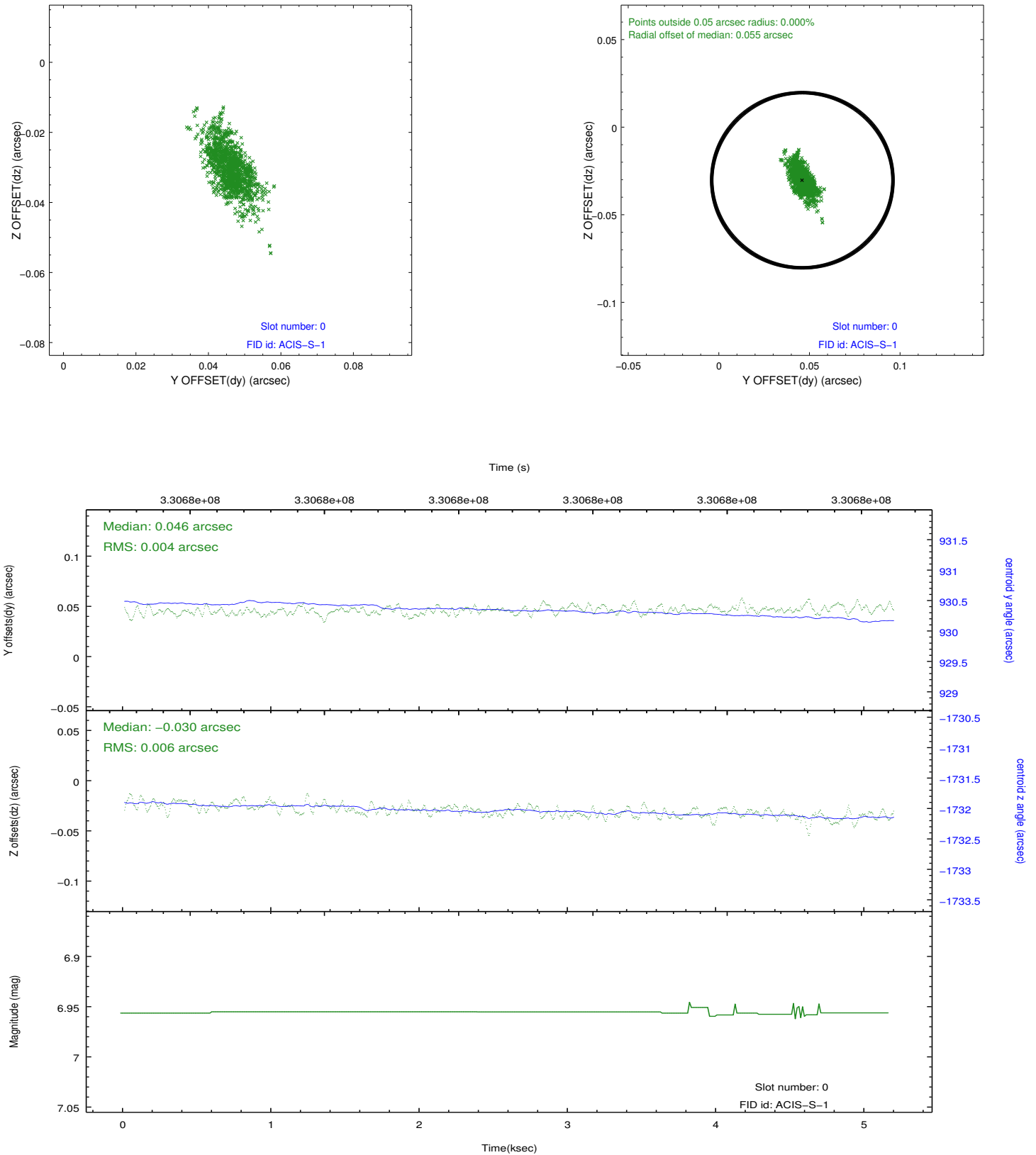


## 2.4.5 Slot 7

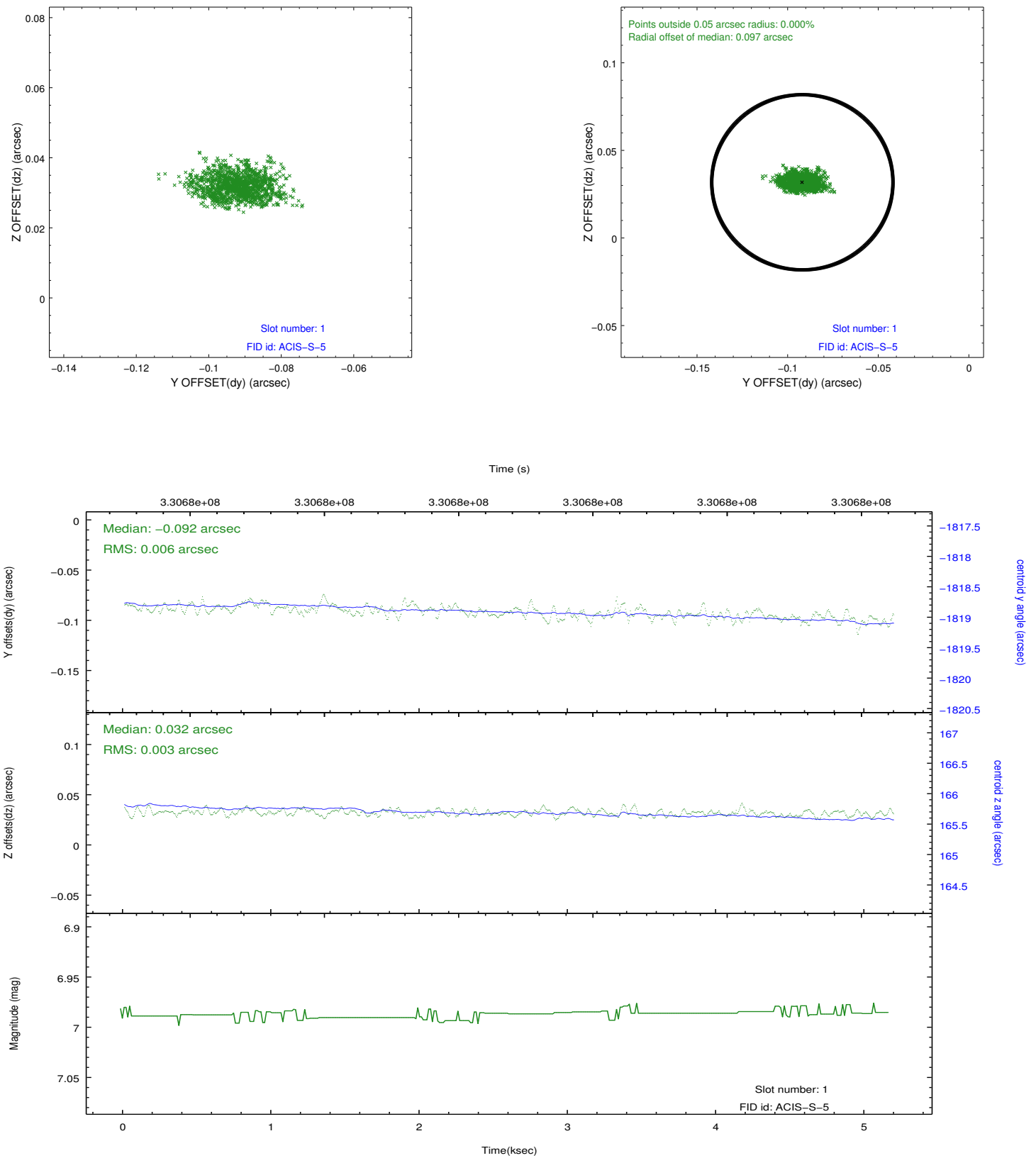


## 2.5 FID Slots

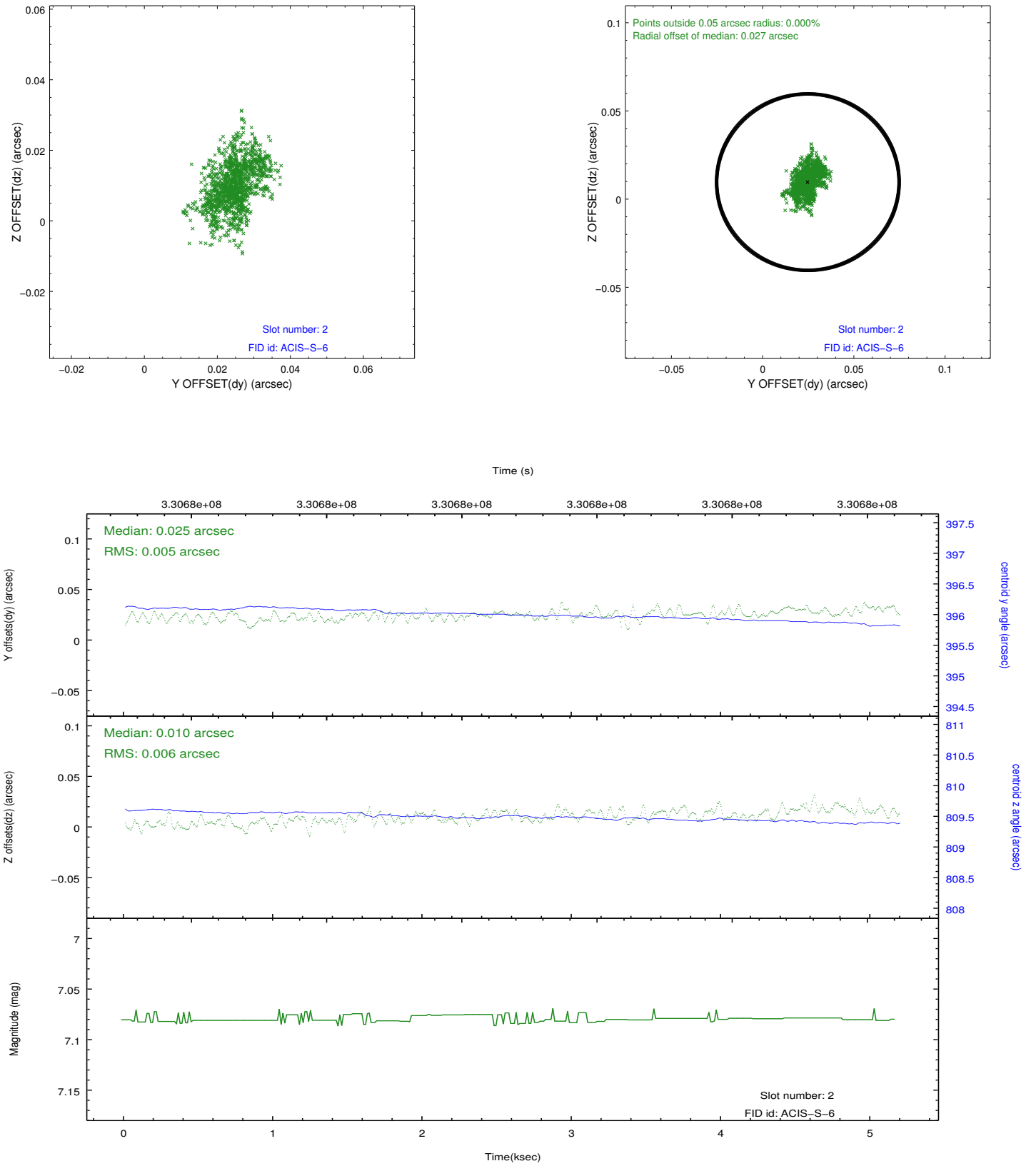
### 2.5.1 Slot 0



## 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)	2012.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18719969

### A.2 Comments

Joint Proposal: CX0-HST. Monitor constraint met, follows obs8579 by 40 days.