

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11645 - L2 Version 2  
Chandra X-Ray Center

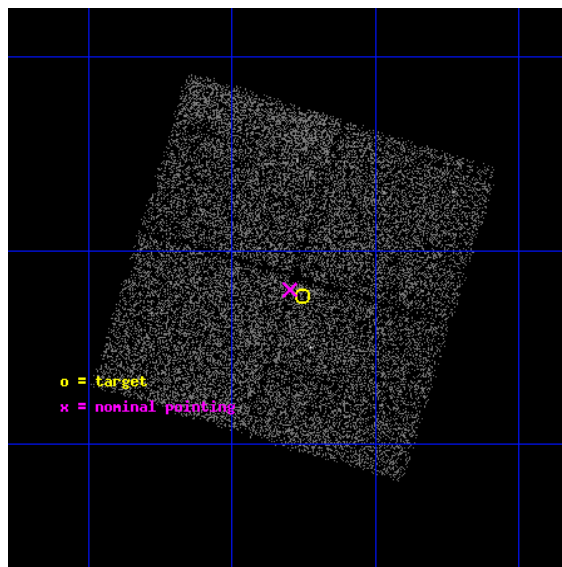
L2 Processing Date : Jun 25 2012

## 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

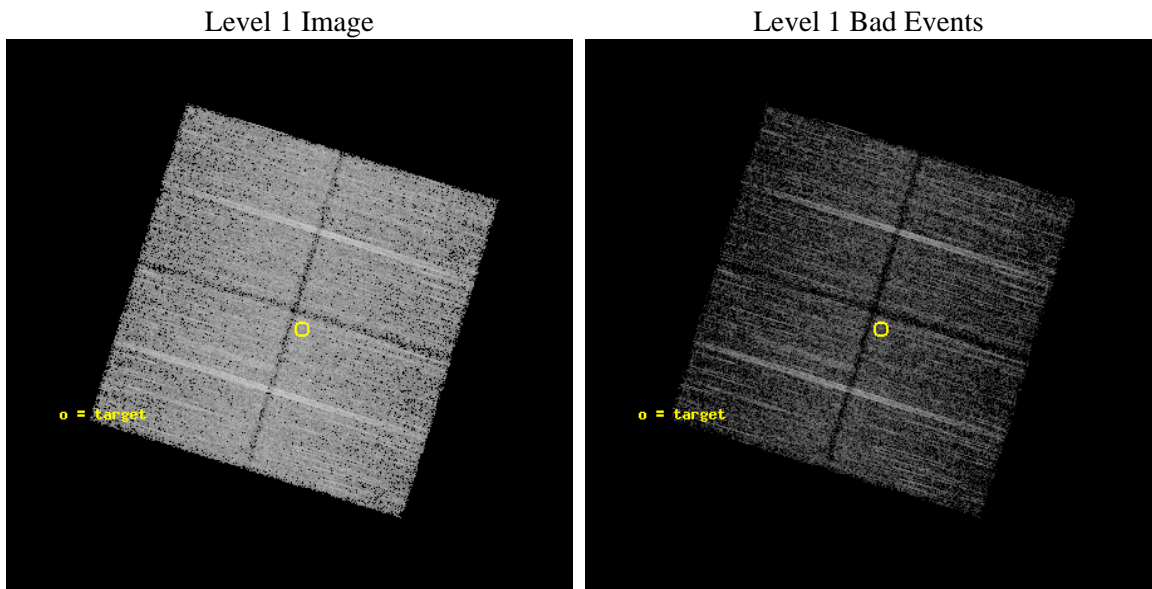
seq_num	702231	Sequence number
obs_id	11645	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1598	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.938333	Observer's specified target RA [deg]
dec_targ	-1.372472	Observer's specified target Dec [deg]
ra_nom	218.9495817903	Nominal RA [deg]
dec_nom	-1.3672307290767	Nominal Dec [deg]
roll_nom	197.16267969556	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9786.7000752687	Sum of GTIs [s]
livetime	9658.8296339216	Livetime [s]
ontime0	9786.7000752687	Sum of GTIs [s]
ontime1	9783.5590749979	Sum of GTIs [s]
ontime2	9786.7000752687	Sum of GTIs [s]
ontime3	9786.7000752687	Sum of GTIs [s]
l2events	26785	Number of level 2 events



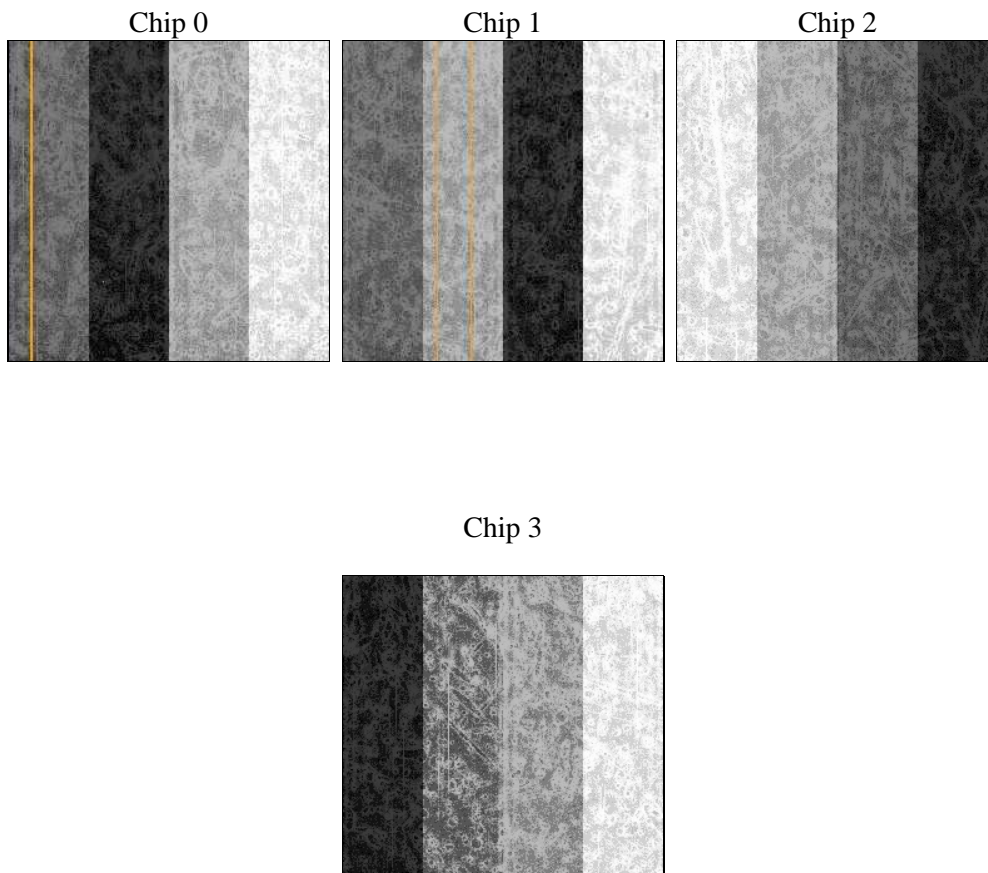
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9786.7000752687	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	9786.7000752687	Sum of GTIs [s]
date	2012-06-25T10:07:44	Date and time of file creation	ontime1	9783.5590749979	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	9786.7000752687	Sum of GTIs [s]
			ontime3	9786.7000752687	Sum of GTIs [s]
			l1events	283504	Number of level 1 events

### 2.1.4 Events

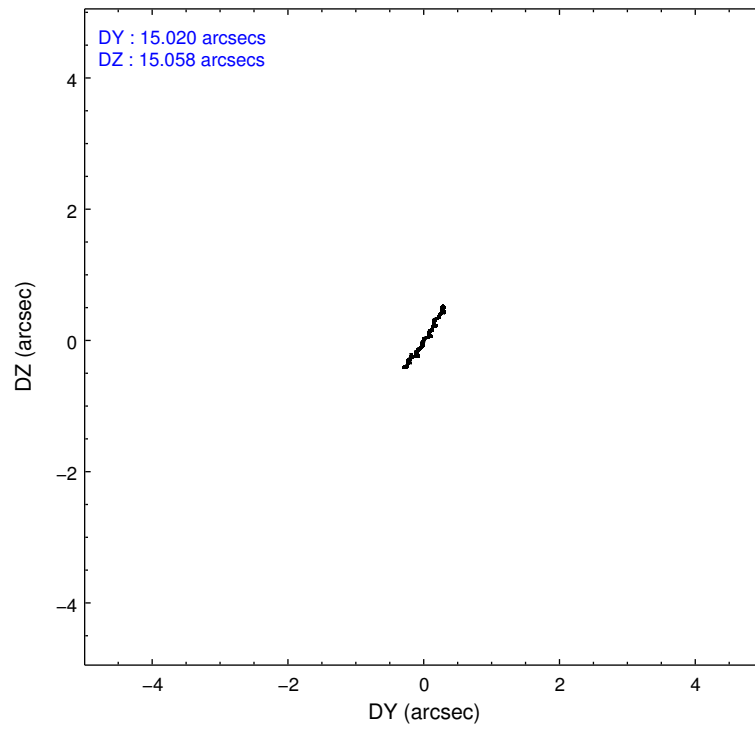
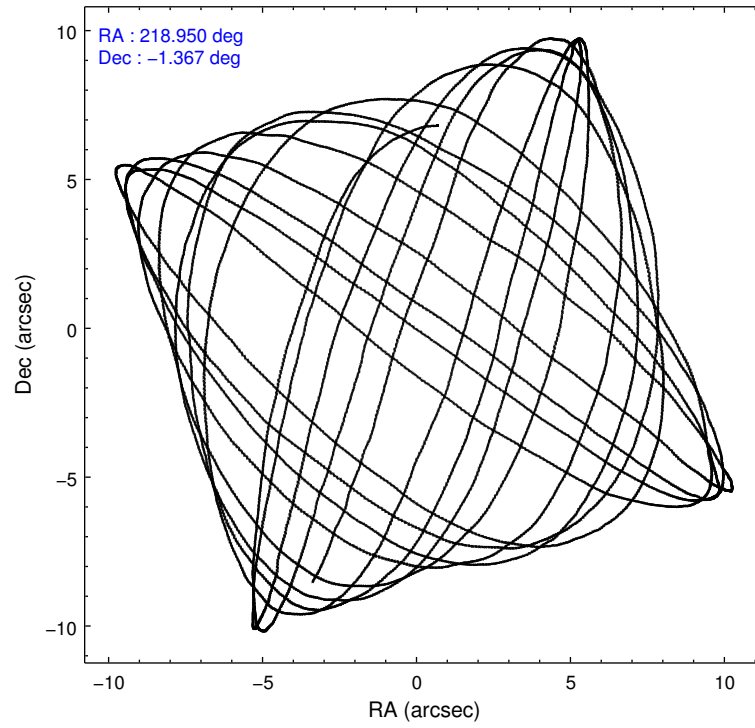
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	69476	67816	73632	72580
rejected events	61527	59050	65551	65137
rejected %	88%	87%	89%	89%

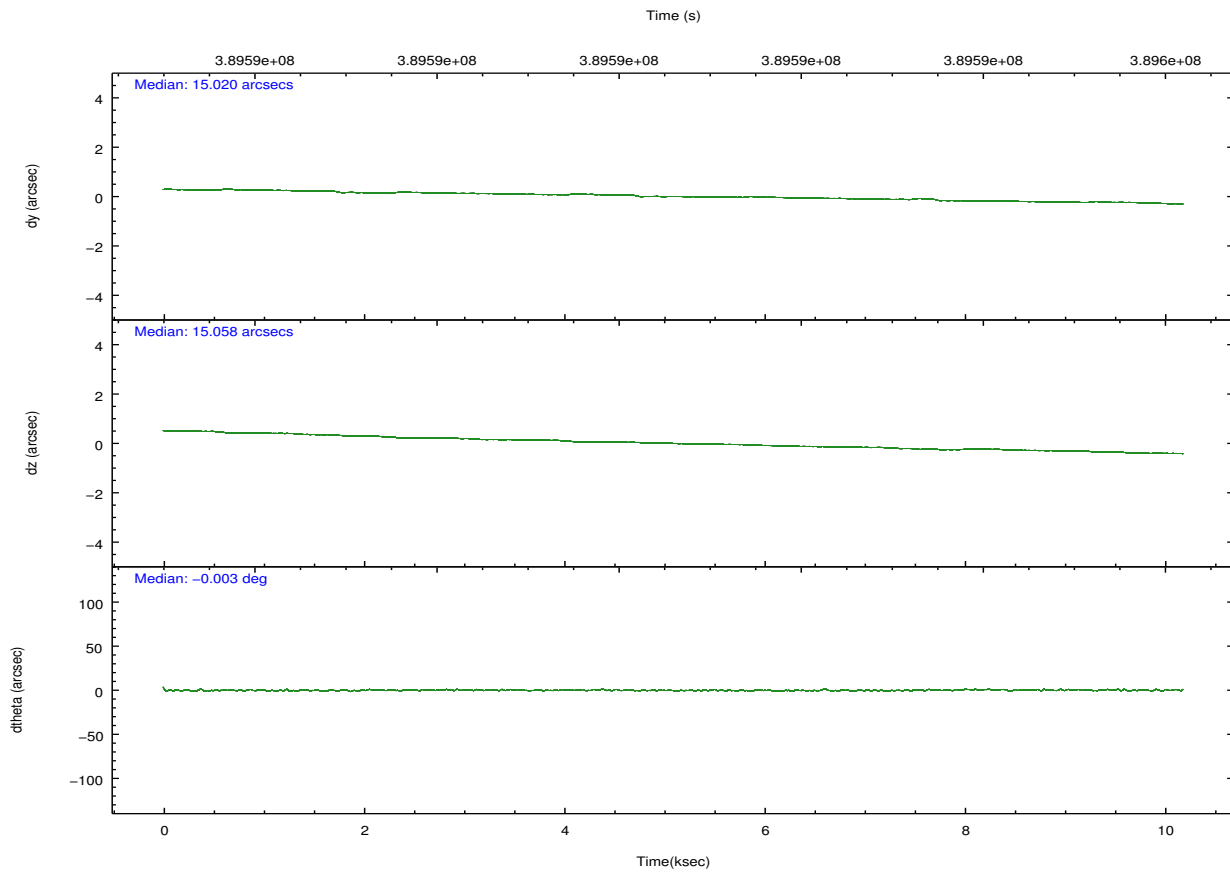
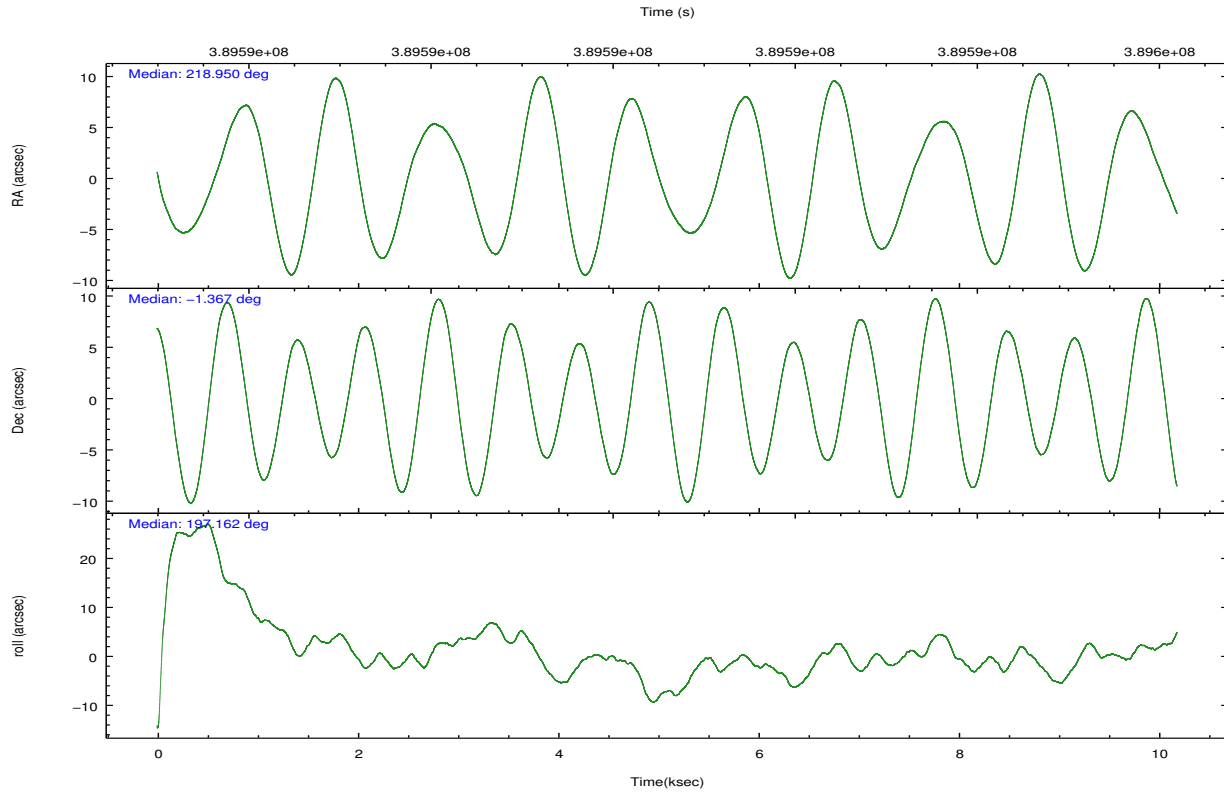
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2744	3217	3009	2636
	3%	4%	4%	3%
grade 1 events	33	47	47	39
	0%	0%	0%	0%
grade 2 events	1920	1994	1924	1711
	2%	2%	2%	2%
grade 3 events	877	911	857	779
	1%	1%	1%	1%
grade 4 events	825	888	811	820
	1%	1%	1%	1%
grade 5 events	2895	3054	2917	3220
	4%	4%	3%	4%
grade 6 events	1585	1763	1483	1501
	2%	2%	2%	2%
grade 7 events	58597	55942	62584	61874
	84%	82%	84%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	218.968205	218.9495817903	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.346990	-1.367230729076687	Alternating exposures requested	N	N
[deg] Pointing Roll	196.954434	197.1626796955608	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	389585675.184000	389585134.98929			
Observation start date	2010-05-07T02:13:29	2010-05-07T02:05:34			
[s] Observation end time (MET)	389595675.184000	389596313.63986			
Observation end date	2010-05-07T05:00:09	2010-05-07T05:11:53			
Read mode	TIMED	TIMED			

## 2.3 Aspect



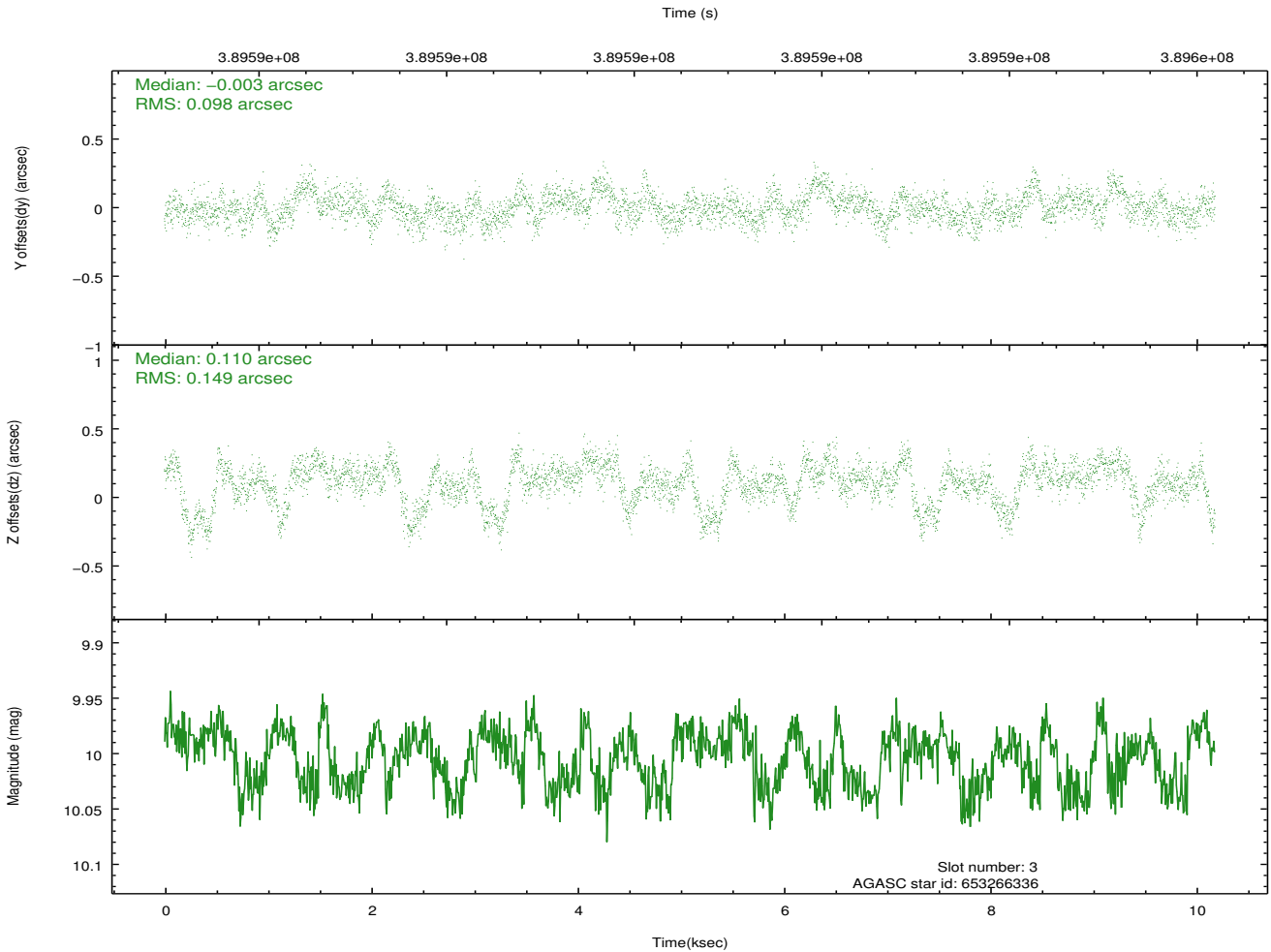
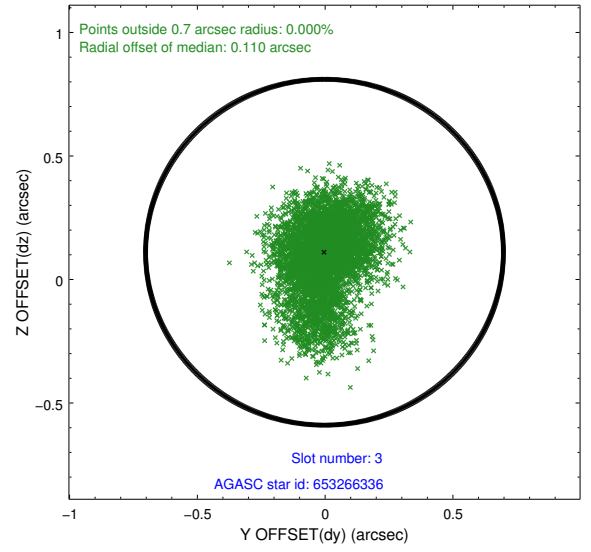
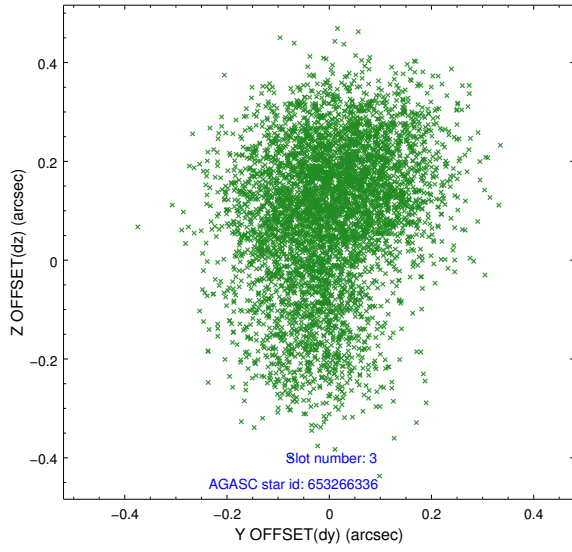


### Slot Statistics

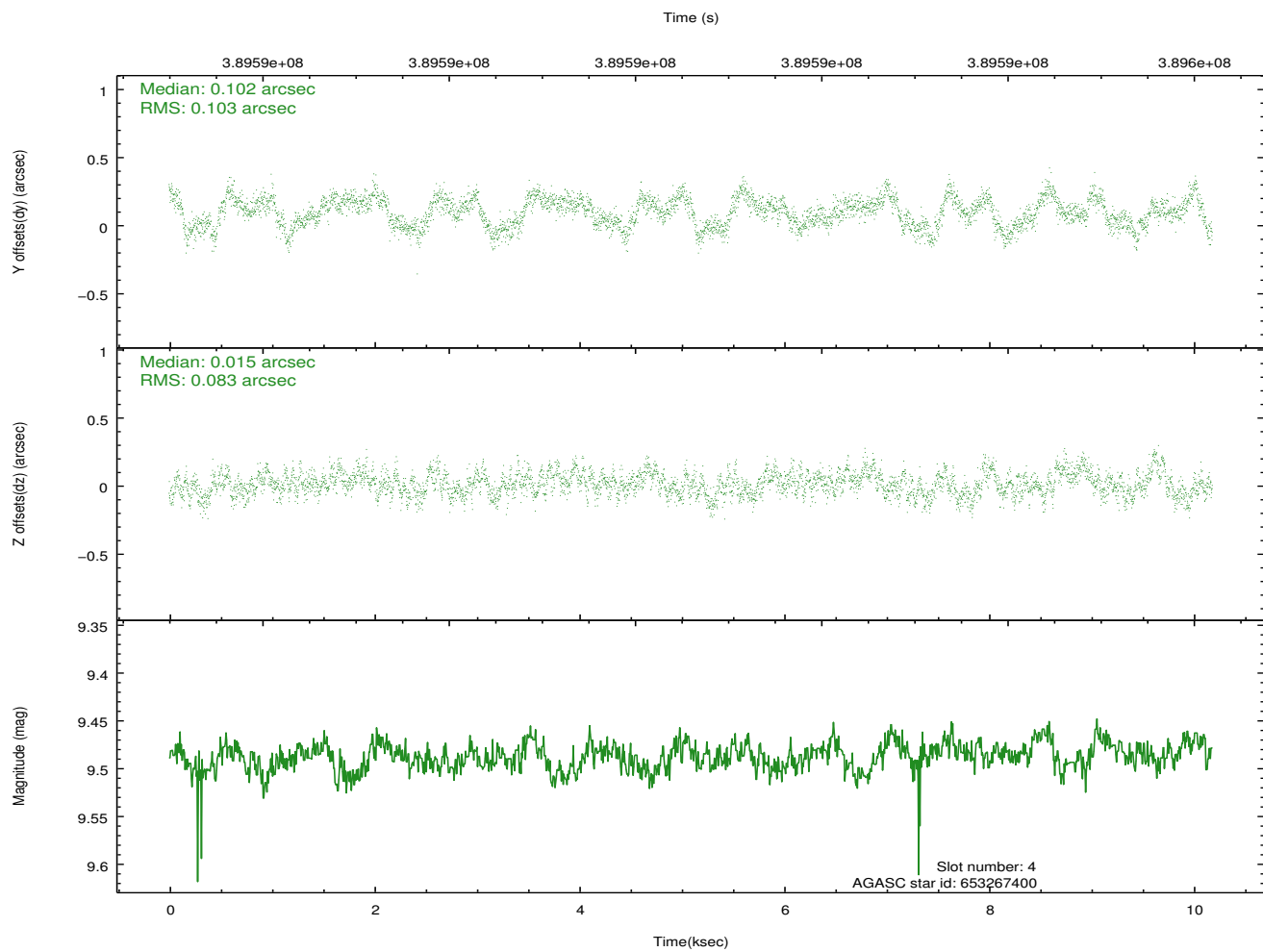
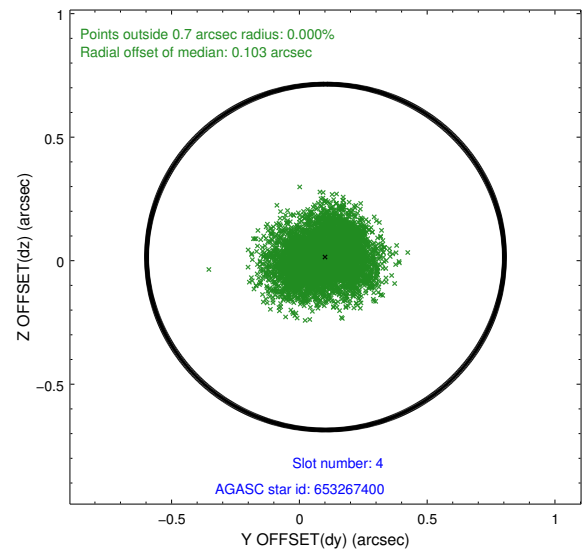
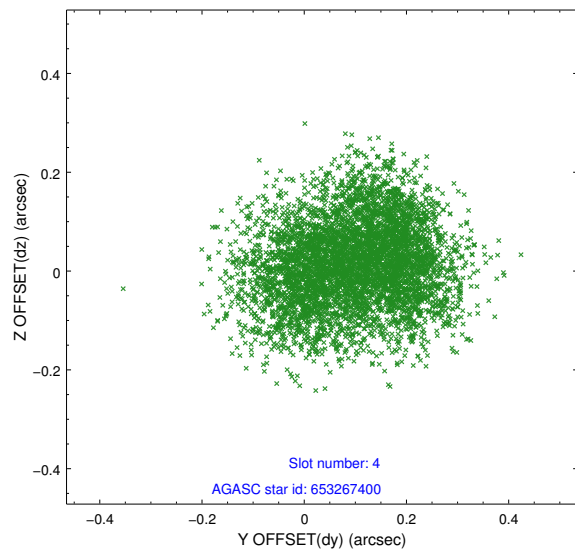
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	2483	-0.003	-0.012	0.017	0.042	0.000000	0.000000	924.44	-838.68
1	FID	ACIS-I-4	6.94	2484	0.125	0.034	0.023	0.032	0.000000	0.000000	2144.87	1060.94
2	FID	ACIS-I-5	7.00	2485	-0.219	0.050	0.017	0.033	0.000000	0.000000	-1823.15	1059.33
3	GUIDE	653266336	10.00	4967	-0.003	0.110	0.183	0.327	218.608555	-1.292893	1182.10	-563.18
4	GUIDE	653267400	9.49	4958	0.102	0.015	0.143	0.221	219.110054	-0.918702	-937.18	-1325.46
5	GUIDE	653267872	10.29	4803	-0.171	0.017	0.303	0.453	218.440976	-0.947350	1396.53	-1929.26
6	GUIDE	653268536	8.82	4968	-0.041	-0.118	0.103	0.173	218.536180	-1.482480	1630.42	13.58
7	GUIDE	653267680	10.09	4957	0.103	-0.005	0.195	0.303	219.032539	-0.611302	-992.47	-2465.37

## 2.4 Star Slots

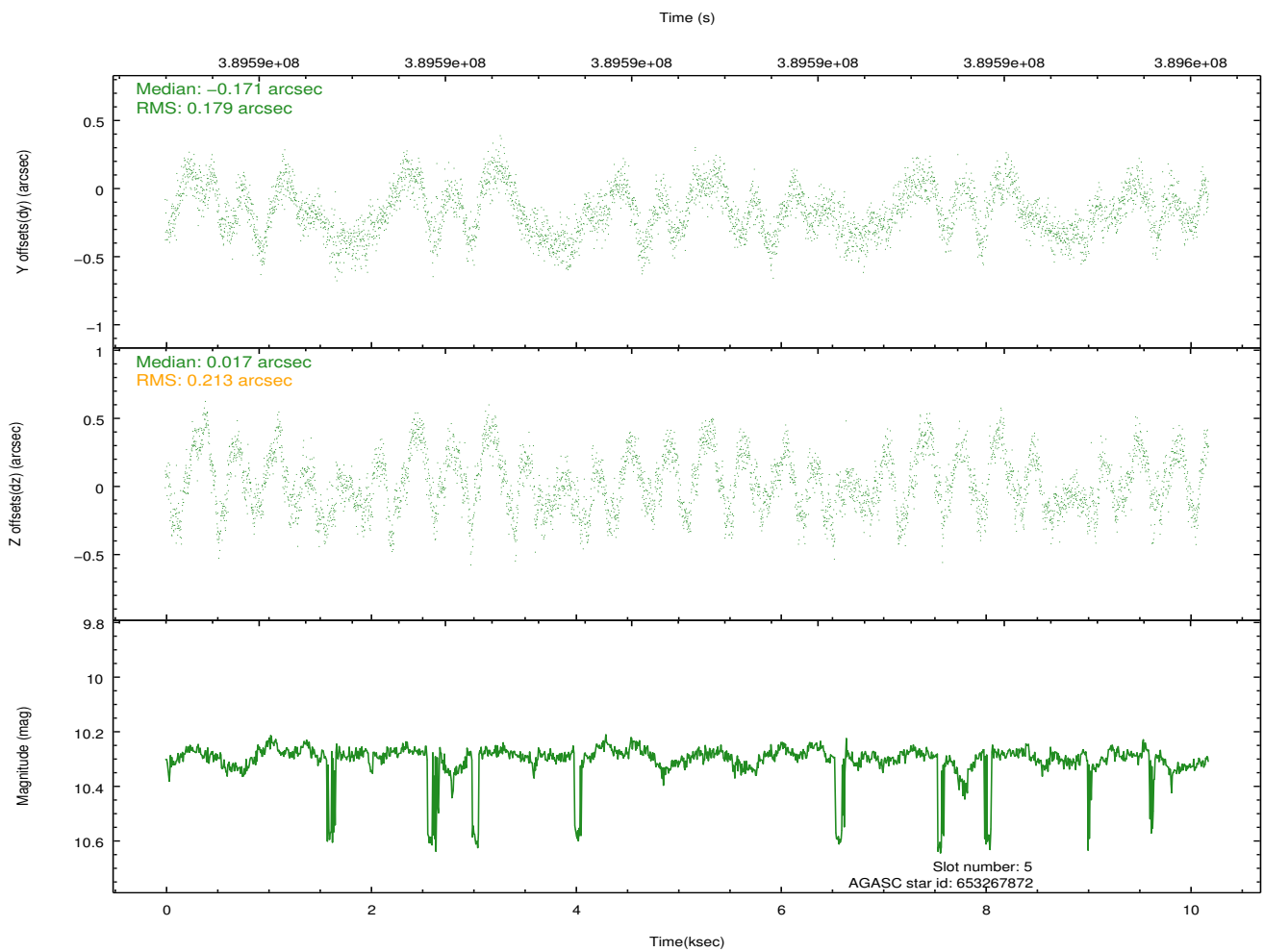
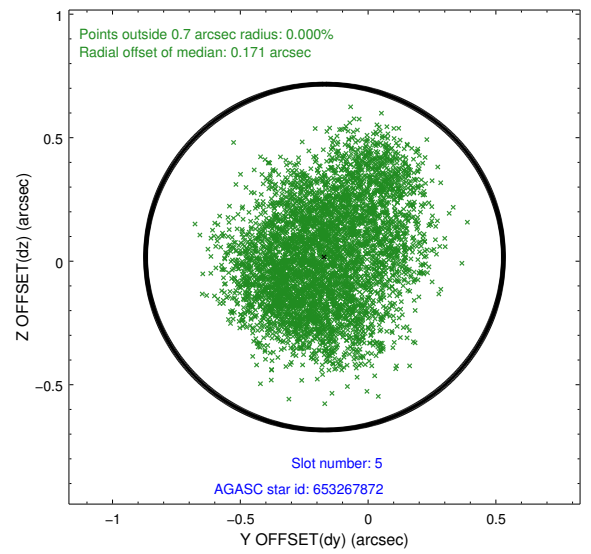
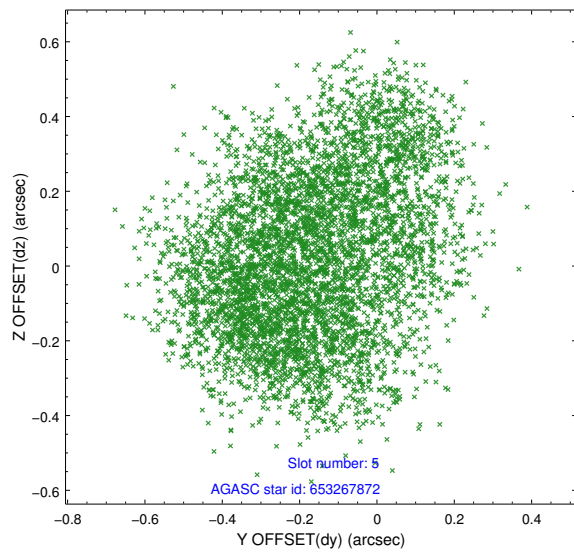
### 2.4.1 Slot 3



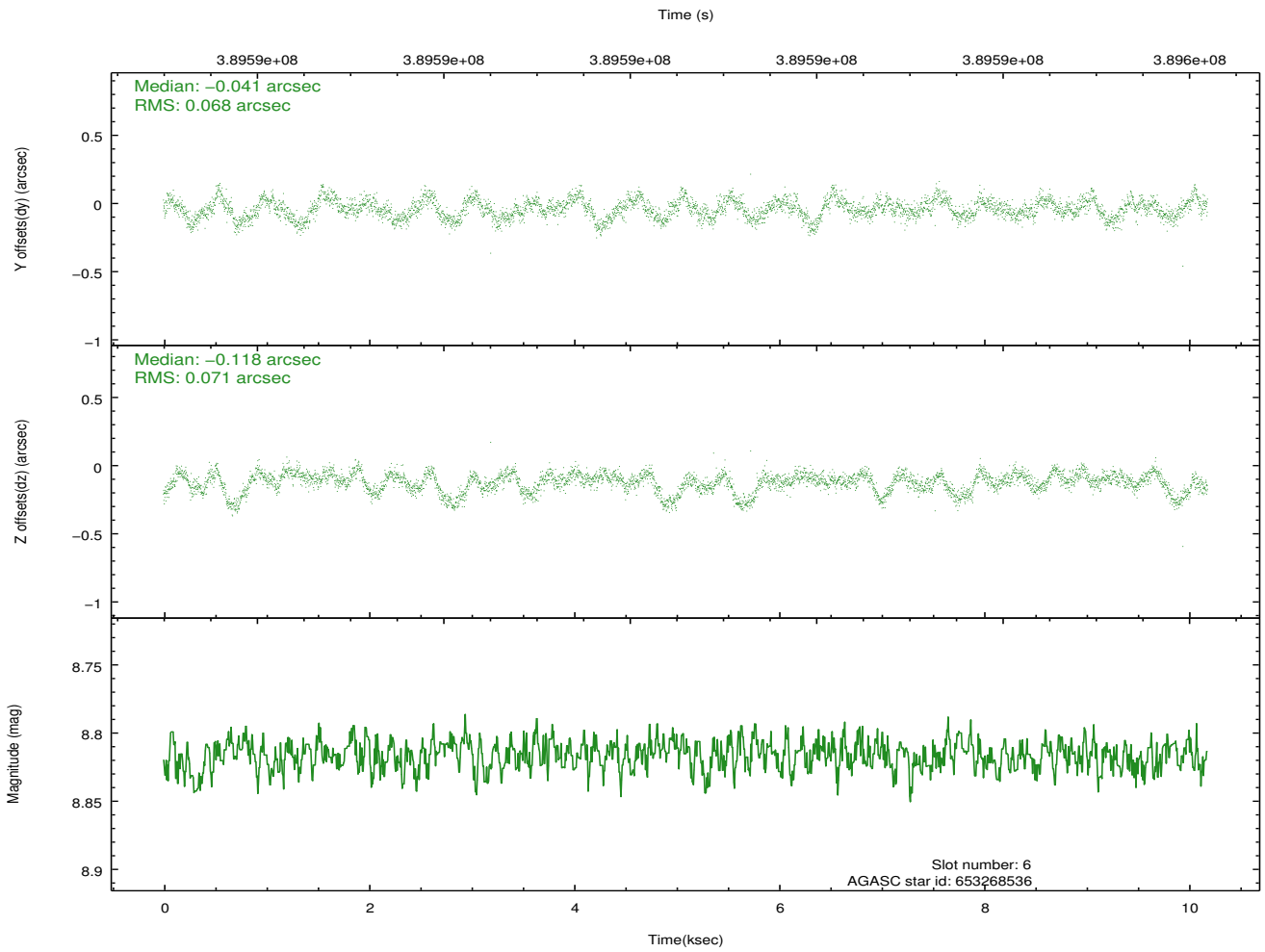
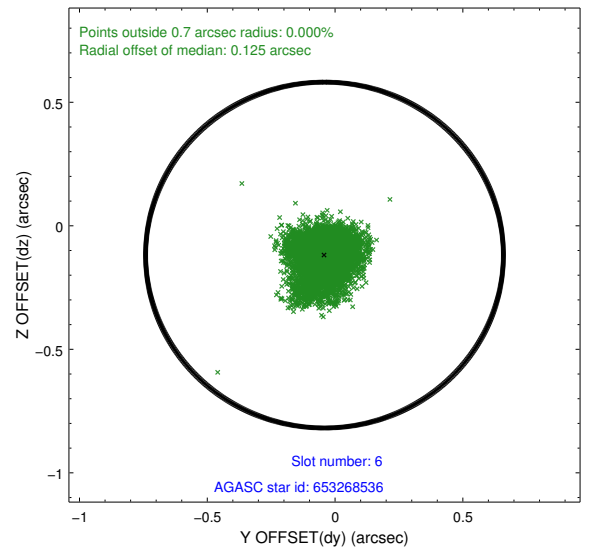
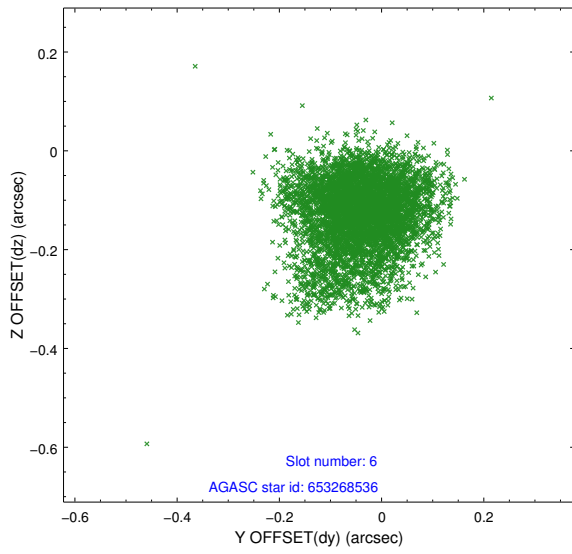
## 2.4.2 Slot 4



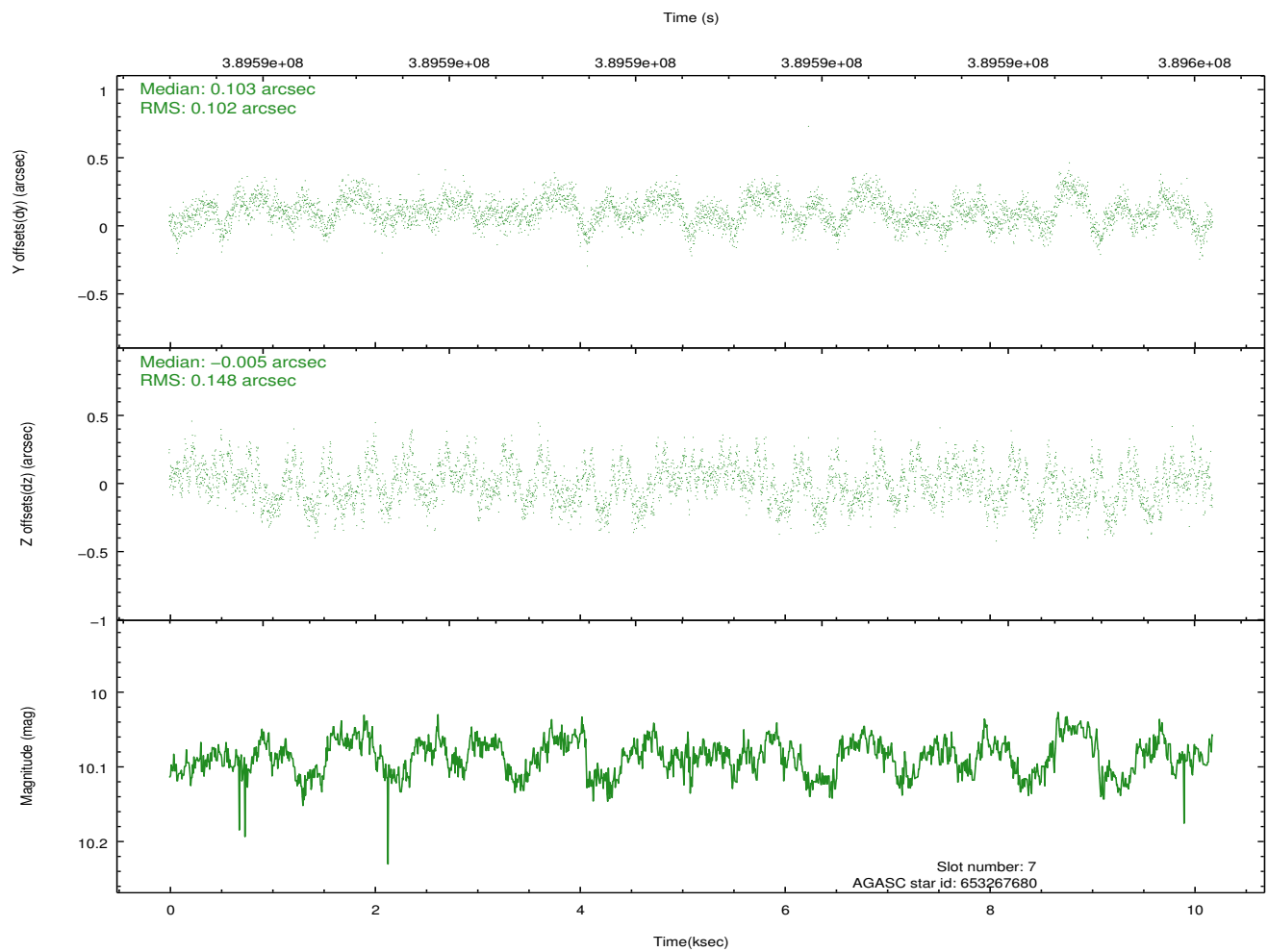
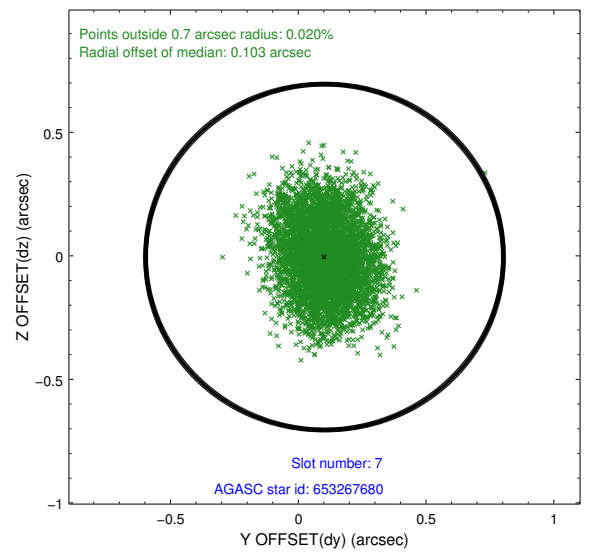
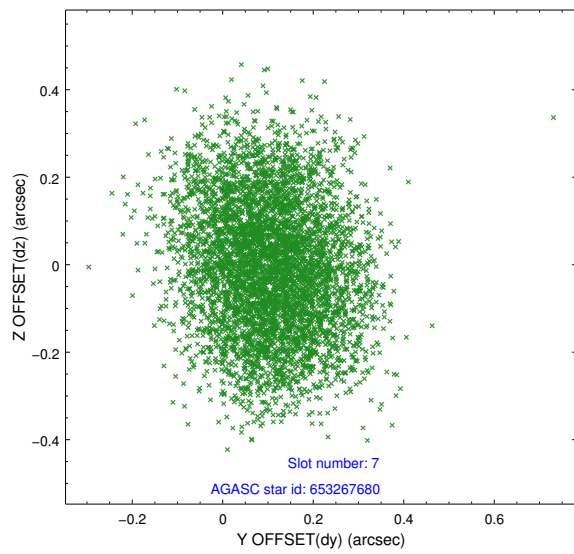
### 2.4.3 Slot 5



### 2.4.4 Slot 6

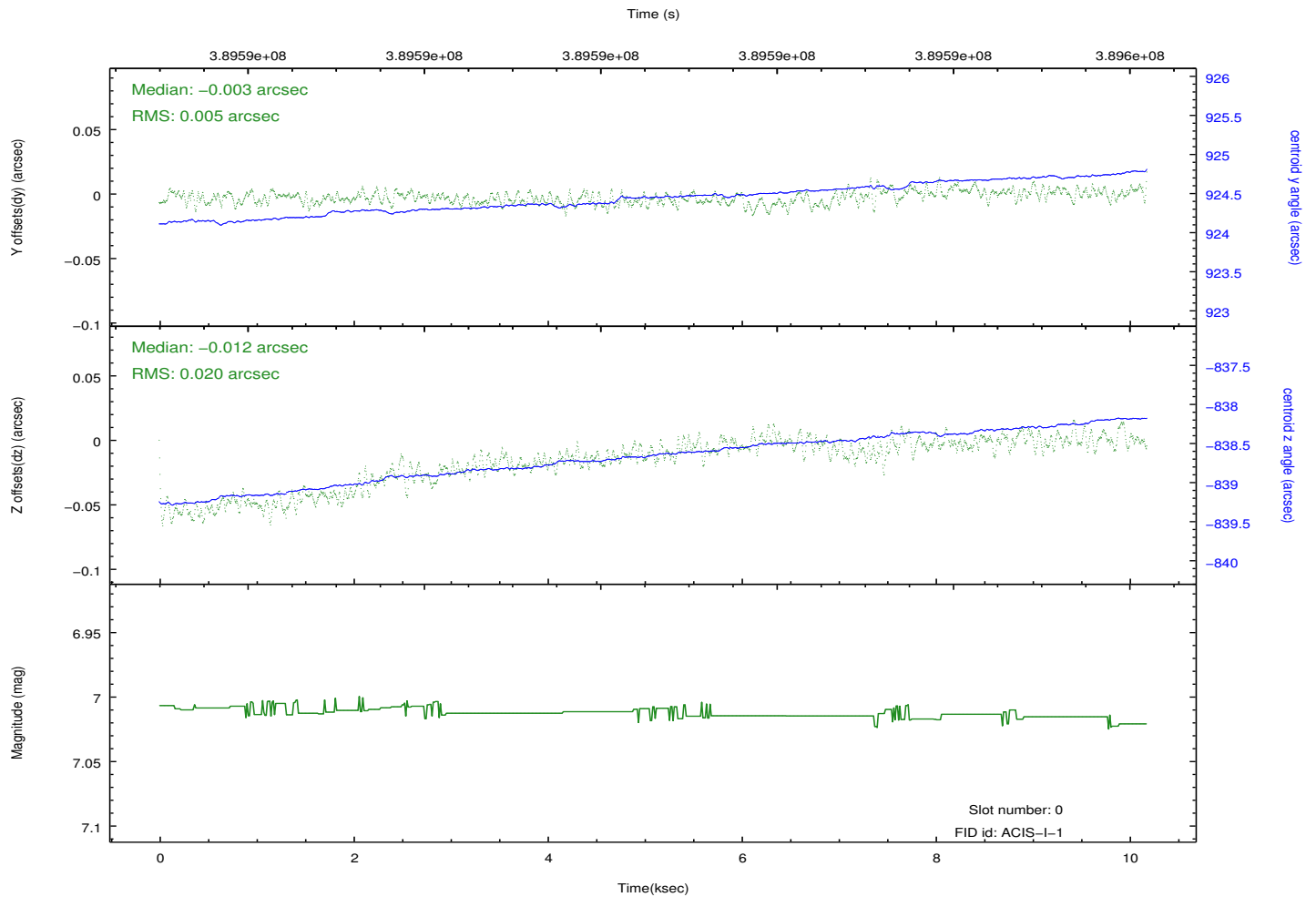
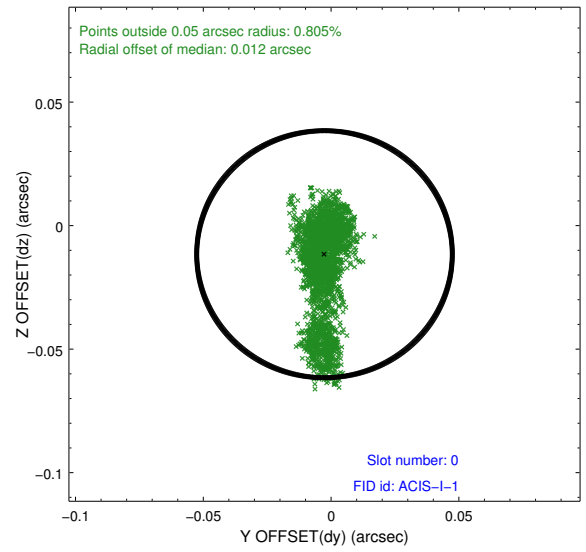
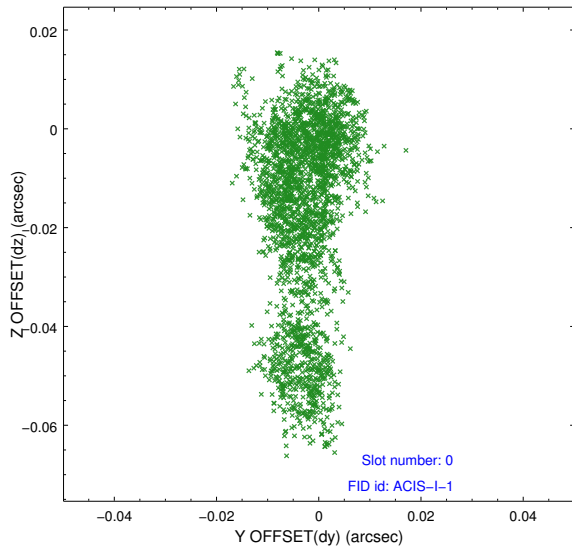


## 2.4.5 Slot 7

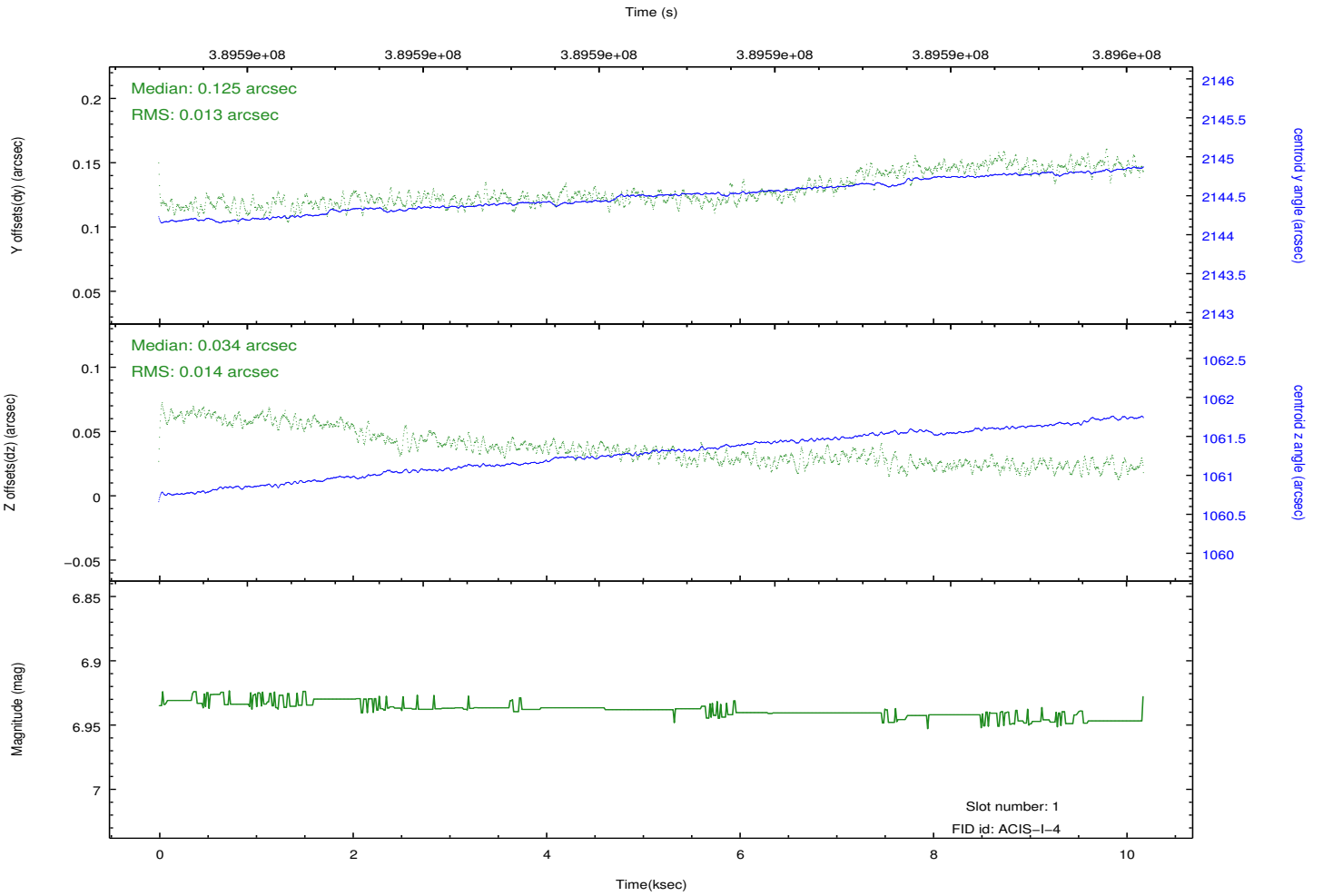
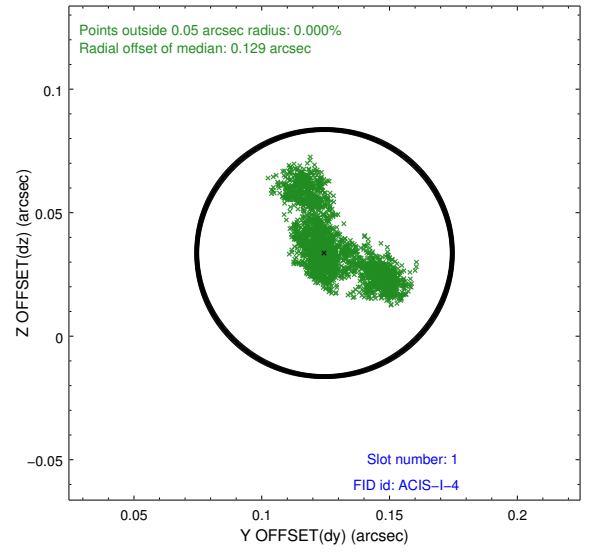
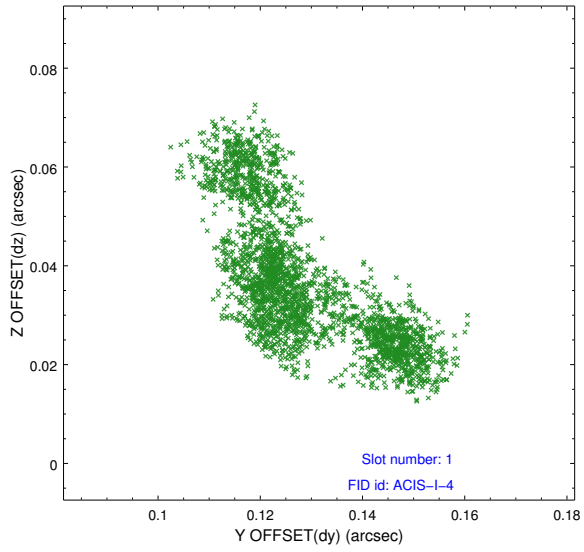


## 2.5 FID Slots

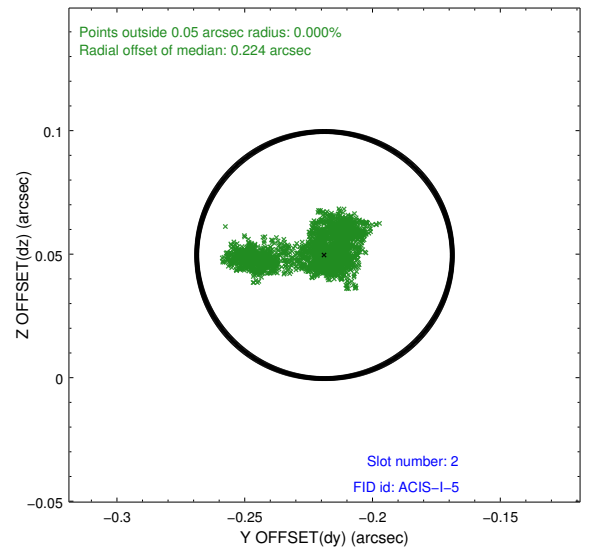
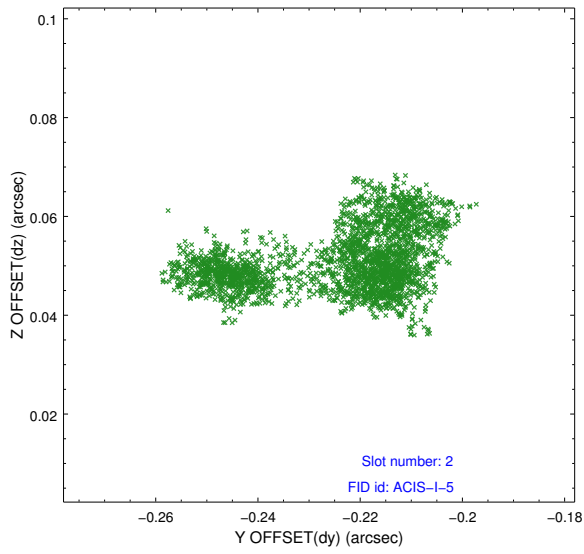
### 2.5.1 Slot 0



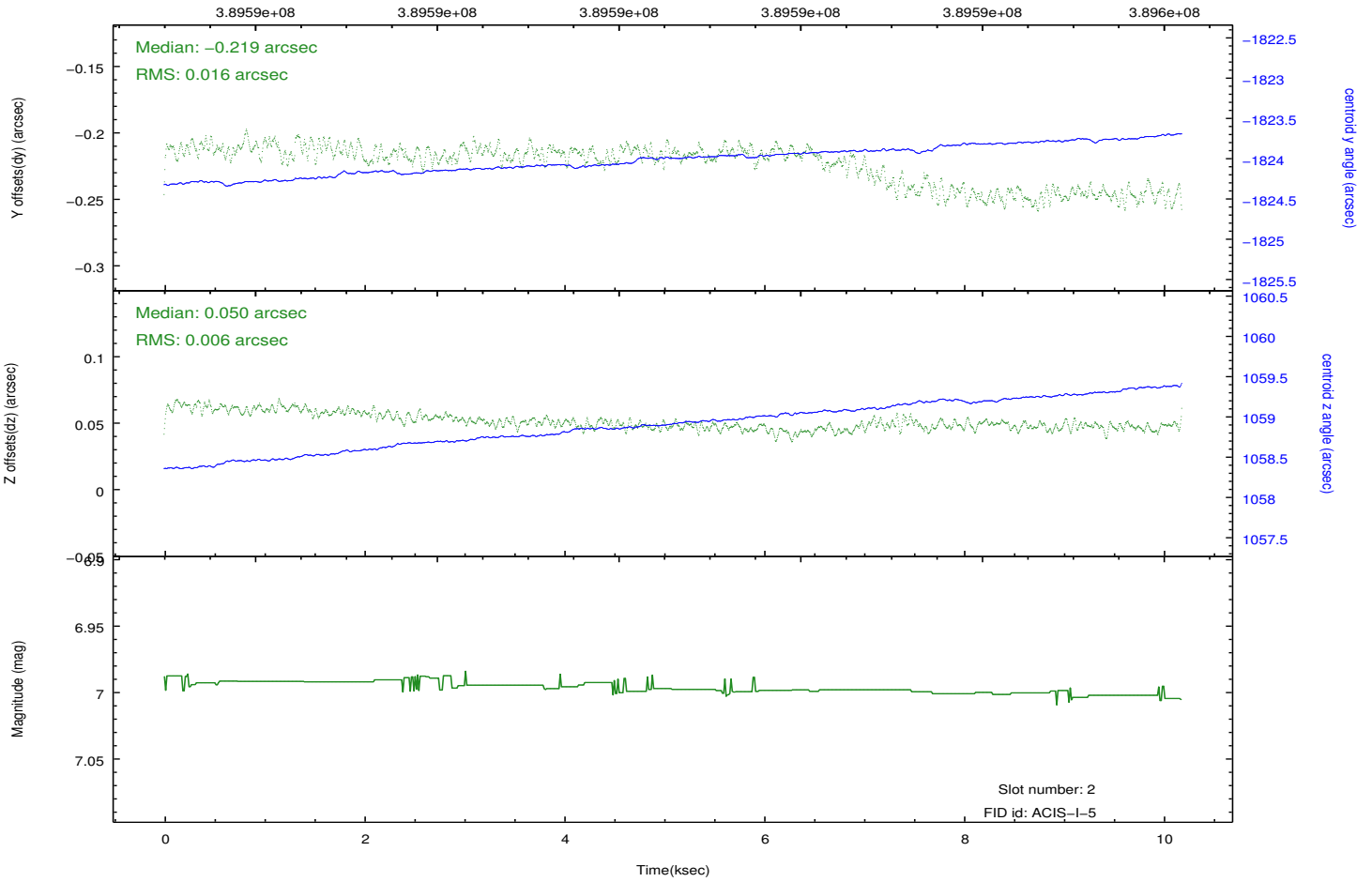
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.7867000752687

### **A.2 Comments**