

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8661 - L2 Version 2  
Chandra X-Ray Center

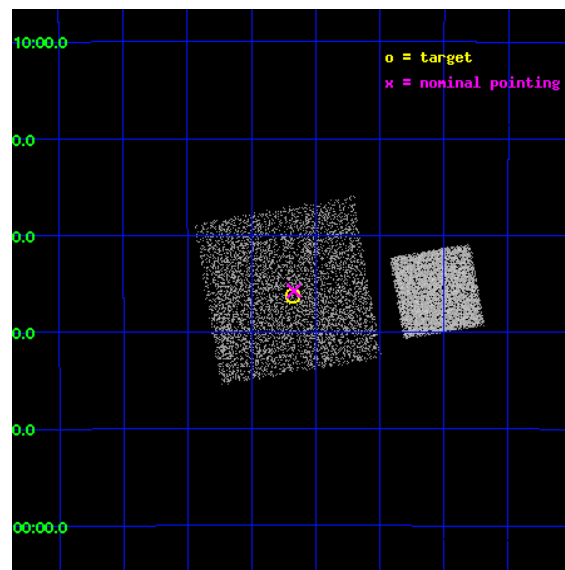
L2 Processing Date : May 14 2012

## 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

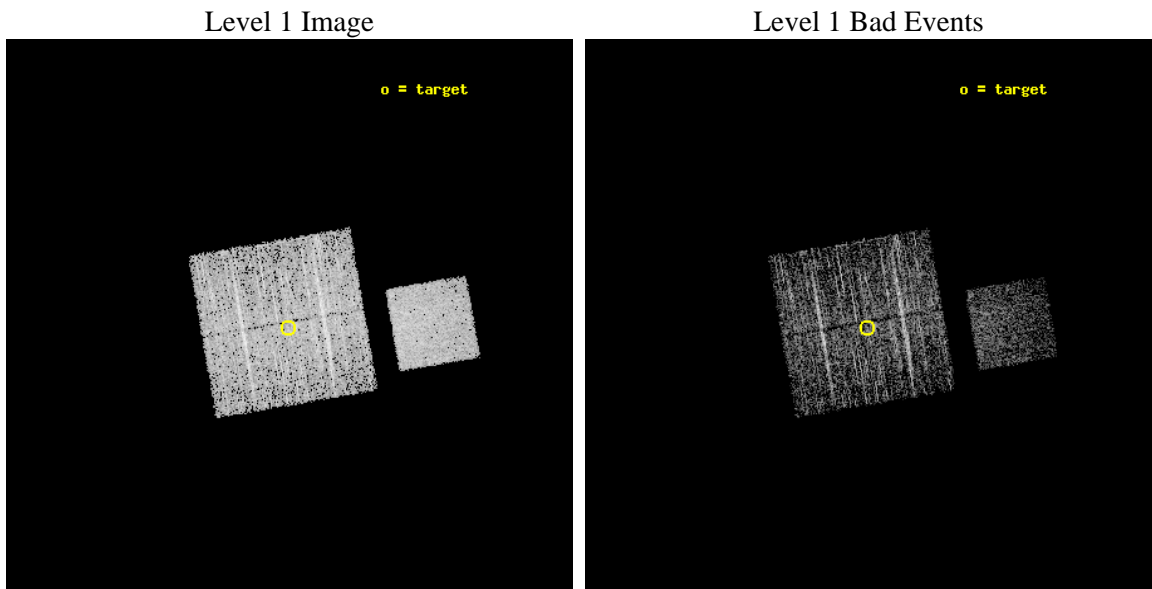
seq_num	400712	Sequence number
obs_id	8661	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.293705	Observer's specified target RA [deg]
dec_targ	-26.603647	Observer's specified target Dec [deg]
ra_nom	266.29237828693	Nominal RA [deg]
dec_nom	-26.595734052994	Nominal Dec [deg]
roll_nom	80.208094866216	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	15952	Number of level 2 events



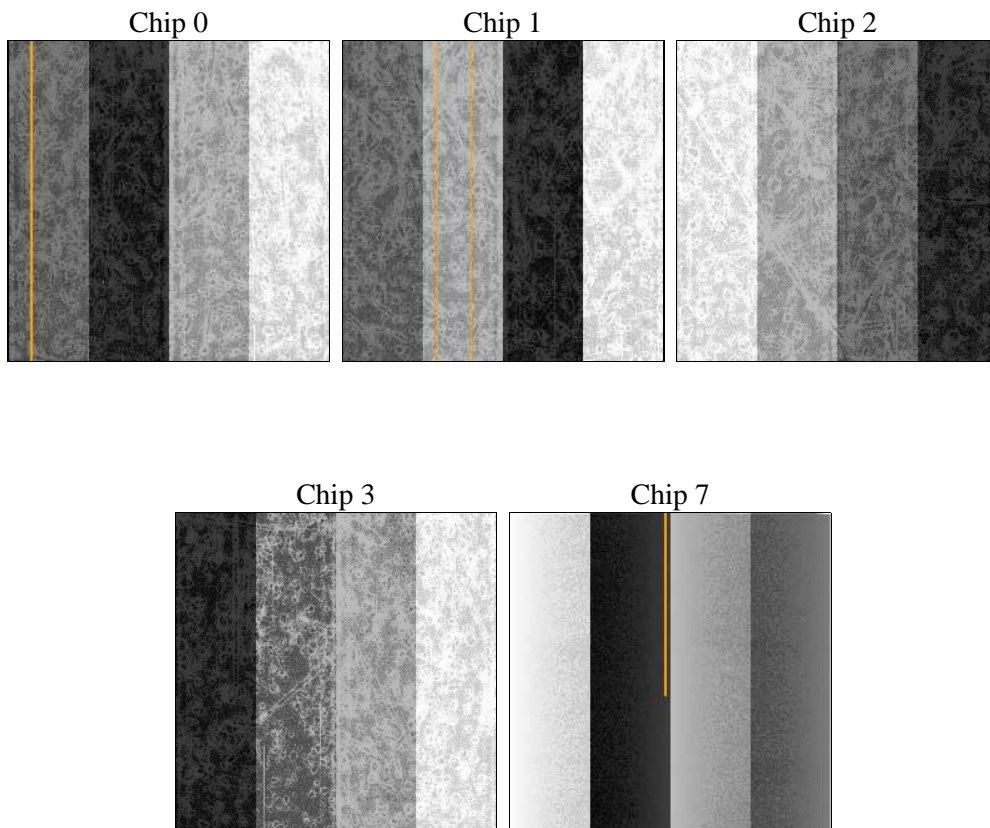
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-05-15T00:15:47	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	102025	Number of level 1 events

### 2.1.4 Events

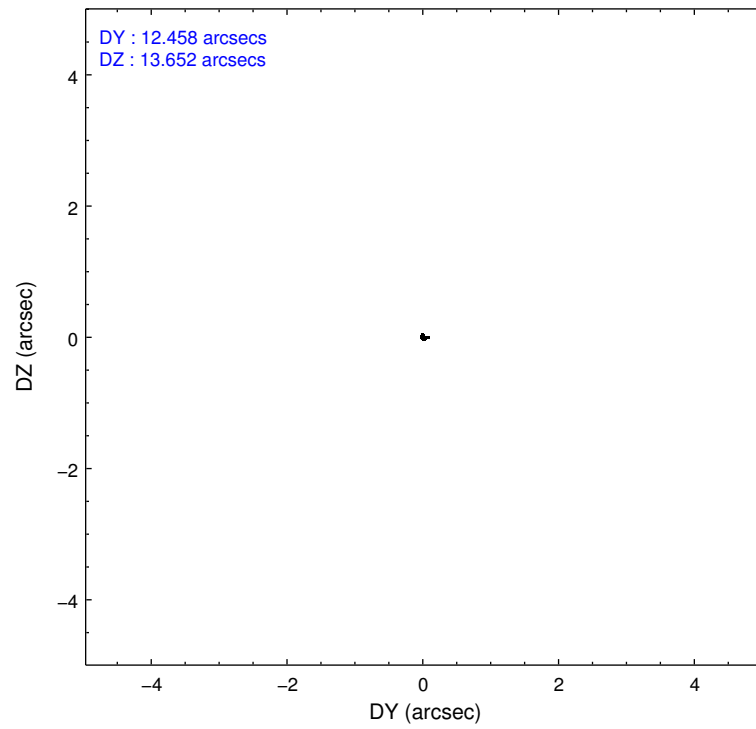
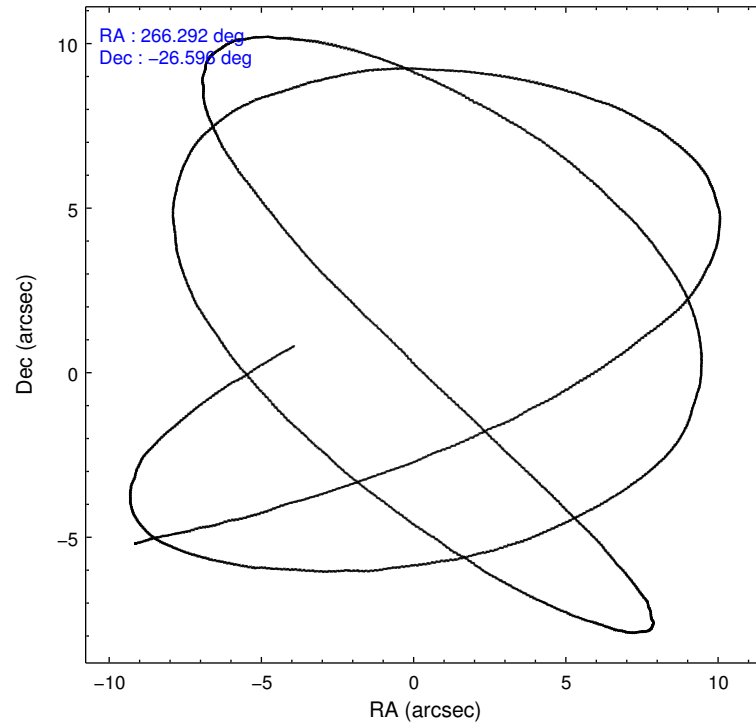
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19458	18840	20962	20185	22580
rejected events	17438	16583	19067	18117	13320
rejected %	89%	88%	90%	89%	58%

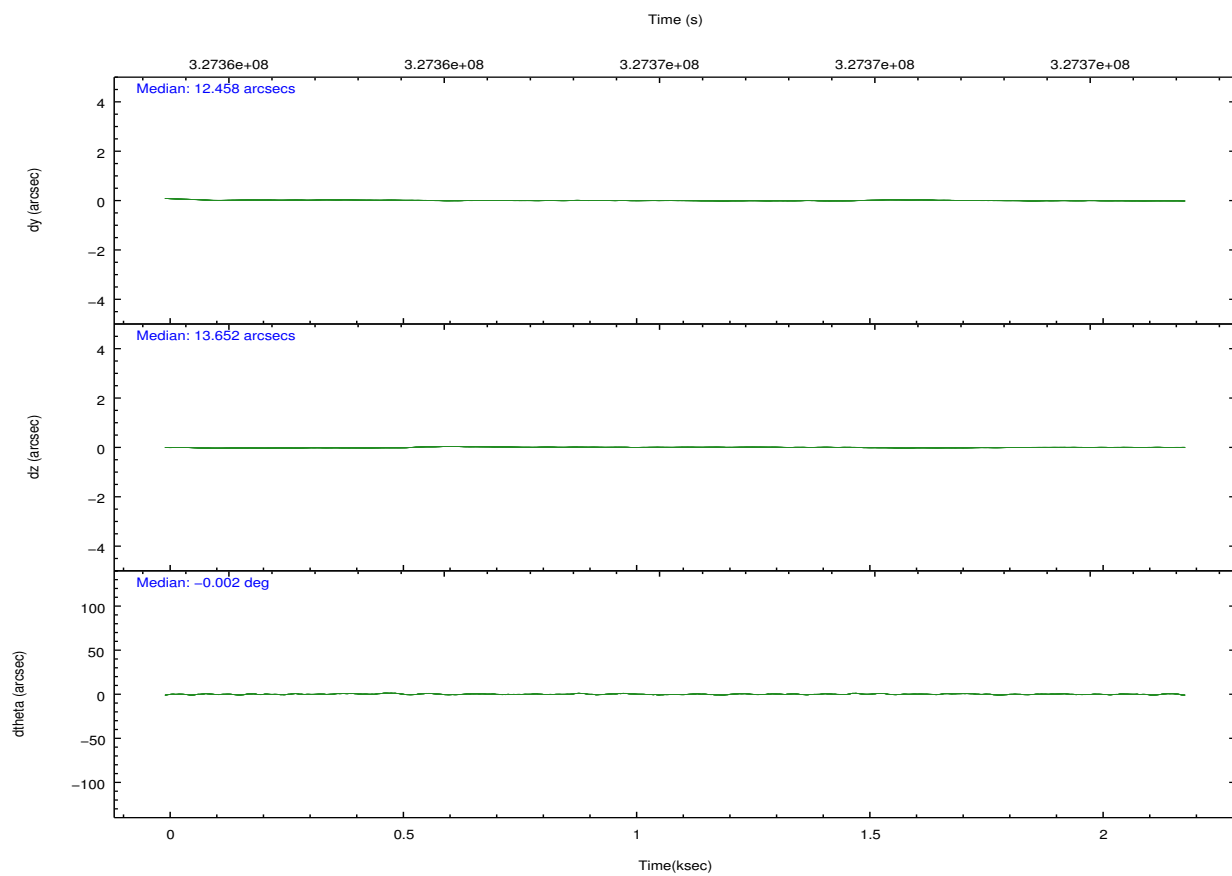
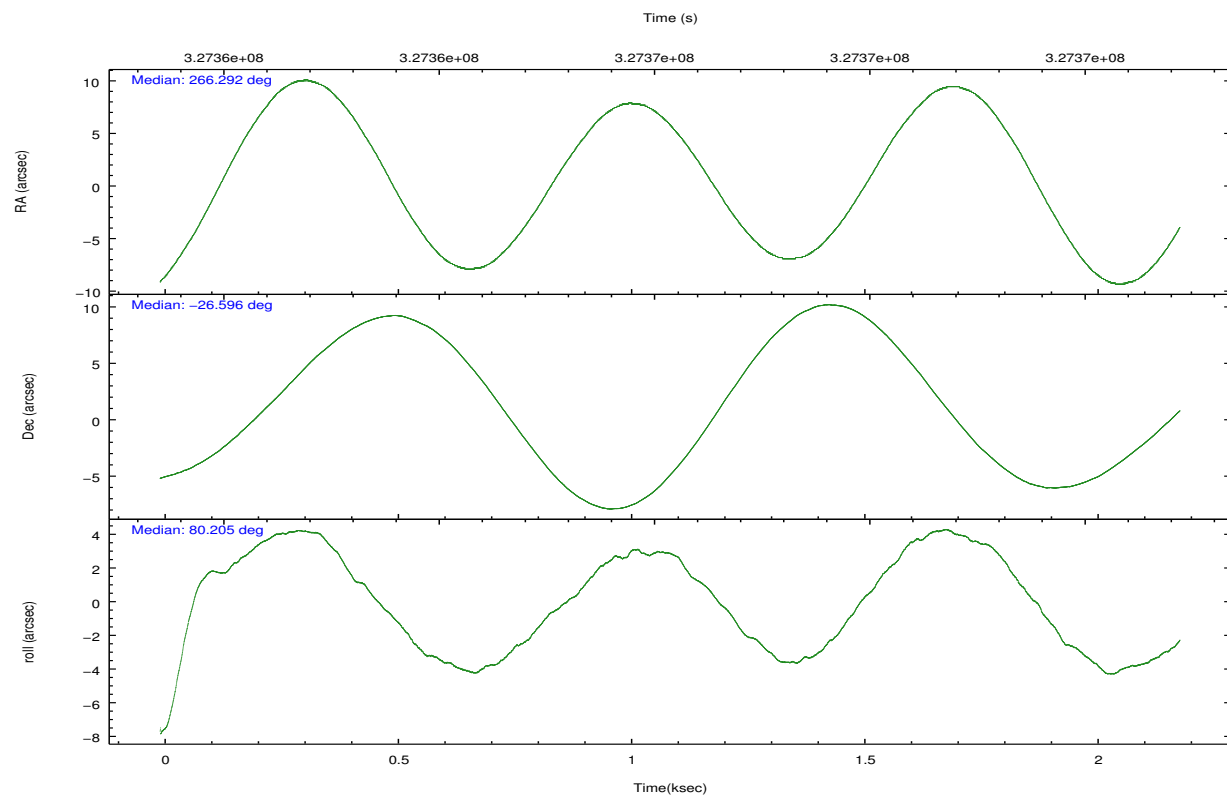
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	967	1085	950	982	1071
	4%	5%	4%	4%	4%
grade 1 events	7	11	16	12	32
	0%	0%	0%	0%	0%
grade 2 events	516	566	471	511	2137
	2%	3%	2%	2%	9%
grade 3 events	254	241	222	238	965
	1%	1%	1%	1%	4%
grade 4 events	199	237	222	210	975
	1%	1%	1%	1%	4%
grade 5 events	721	815	674	813	2333
	3%	4%	3%	4%	10%
grade 6 events	367	474	359	411	5521
	1%	2%	1%	2%	24%
grade 7 events	16427	15411	18048	17008	9546
	84%	81%	86%	84%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	266.303262	266.2923782869279	CCD I2 on	Y	Y
[deg] Pointing Dec	-26.621404	-26.59573405299447	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004278	80.20809486621604	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327364623.184000	327364247.05288	CCD S5 on	N	N
Observation start date	2008-05-16T22:35:58	2008-05-16T22:30:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327366623.184000	327366757.27801	On-chip summing requested	N	N
Observation end date	2008-05-16T23:09:18	2008-05-16T23:12:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



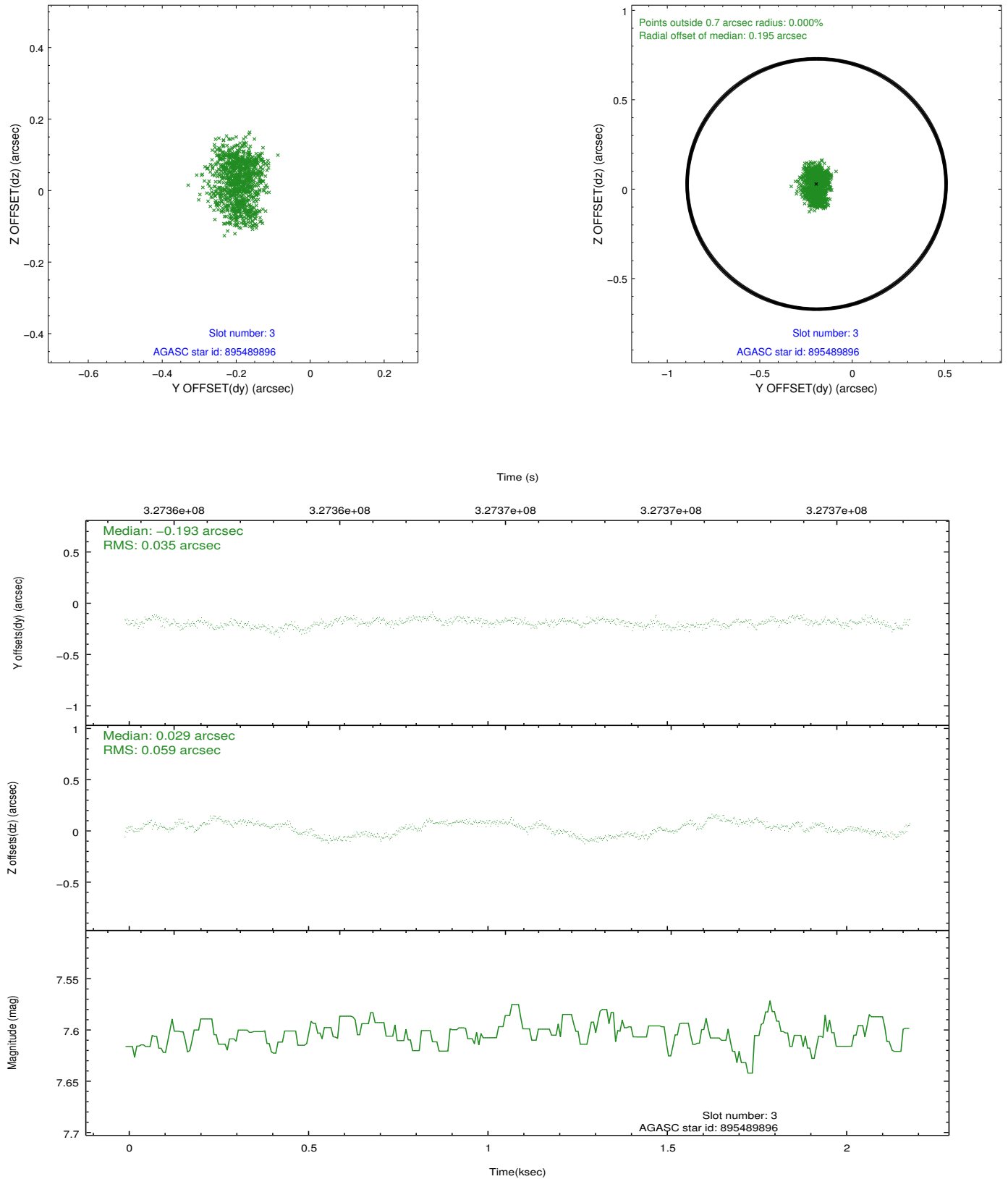


### Slot Statistics

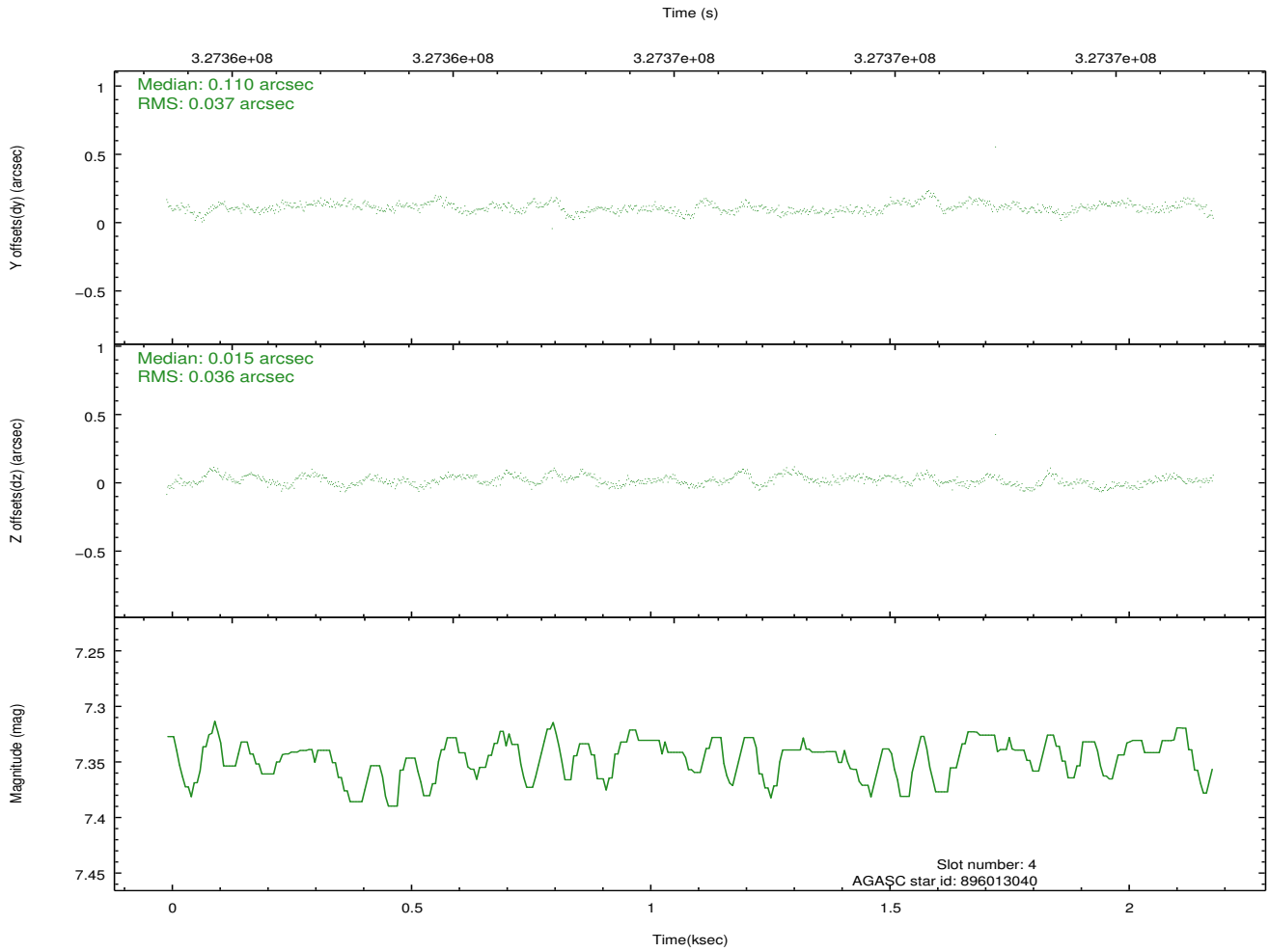
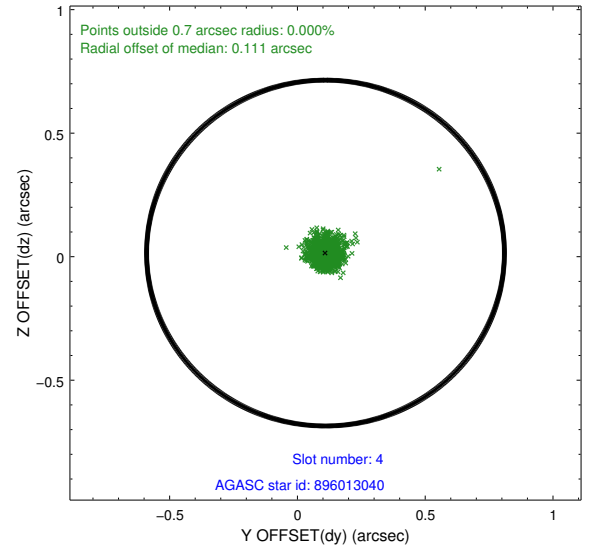
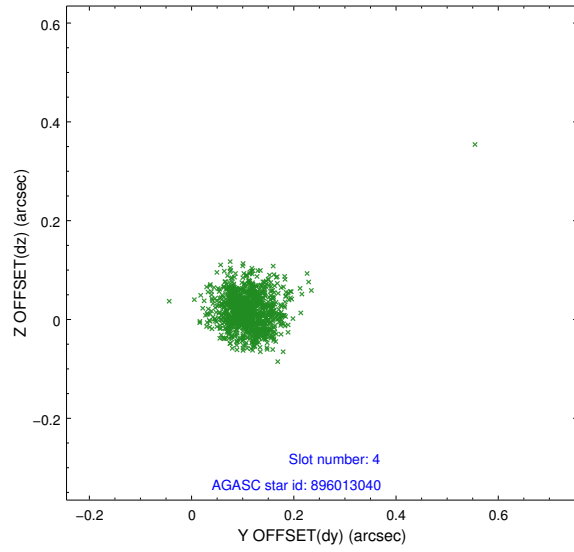
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	534	0.012	0.035	0.006	0.010	0.000000	0.000000	927.09	-837.17
1	FID	ACIS-I-5	7.05	534	-0.168	0.036	0.006	0.011	0.000000	0.000000	-1819.57	1058.81
2	FID	ACIS-I-6	7.06	534	0.065	0.001	0.007	0.011	0.000000	0.000000	389.42	1706.67
3	GUIDE	895489896	7.60	1067	-0.193	0.029	0.076	0.119	266.605795	-26.200300	1661.98	-699.56
4	GUIDE	896013040	7.34	1068	0.110	0.015	0.052	0.084	266.506589	-26.972299	-1128.94	-862.74
5	GUIDE	896013056	8.53	1068	0.093	0.108	0.087	0.143	266.762141	-26.954413	-927.87	-1659.69
6	GUIDE	896014680	8.76	1067	0.210	0.115	0.069	0.109	266.460330	-27.216583	-2023.09	-868.98
7	GUIDE	896015880	8.48	1066	-0.219	-0.258	0.059	0.099	265.986633	-26.306686	935.69	1201.51

## 2.4 Star Slots

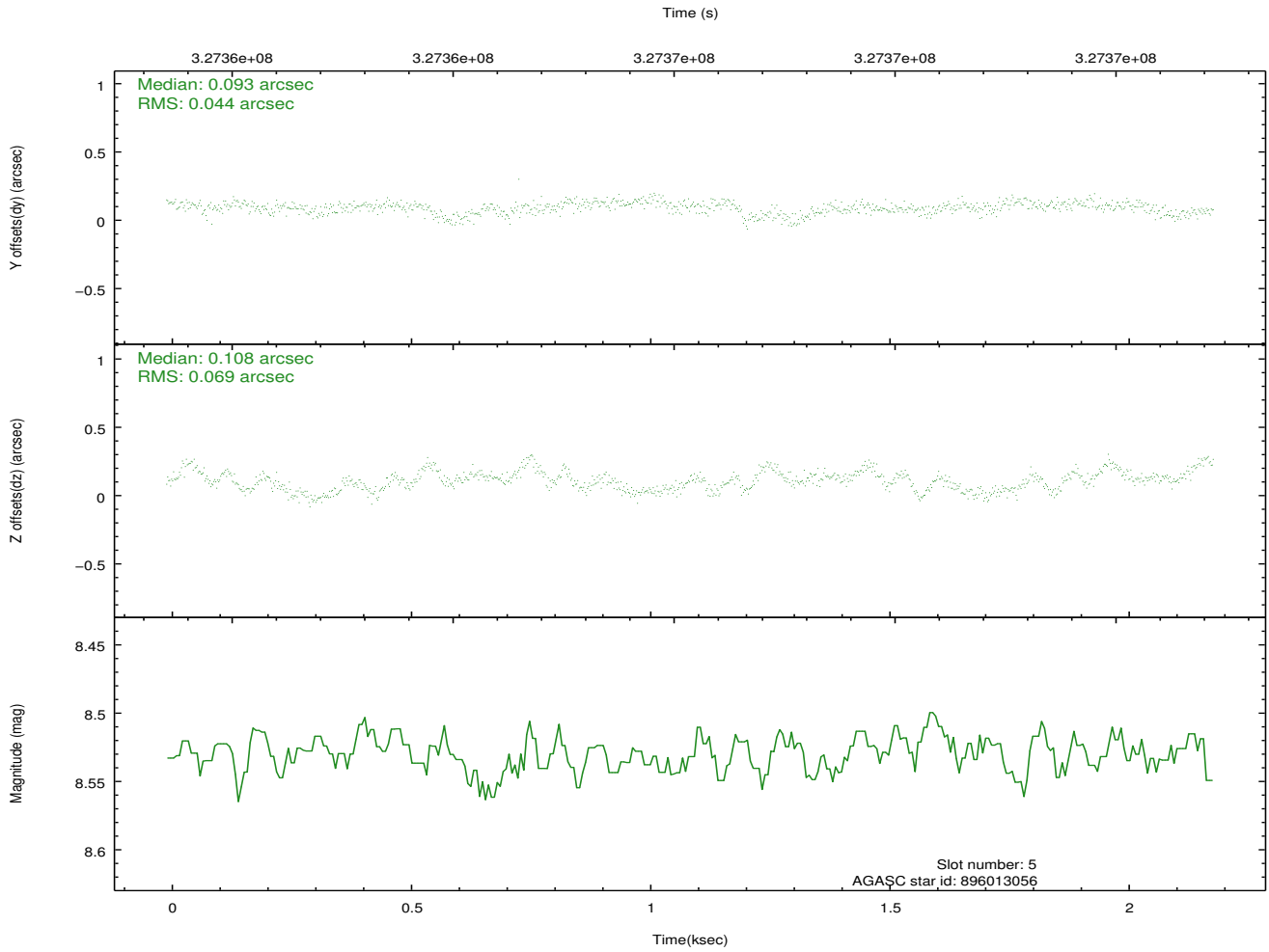
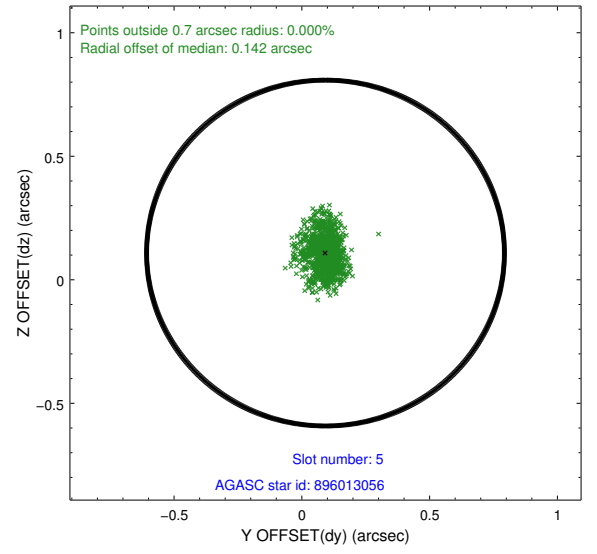
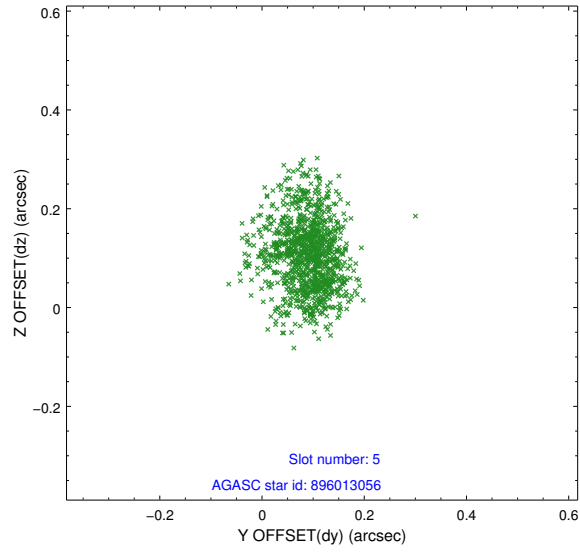
### 2.4.1 Slot 3



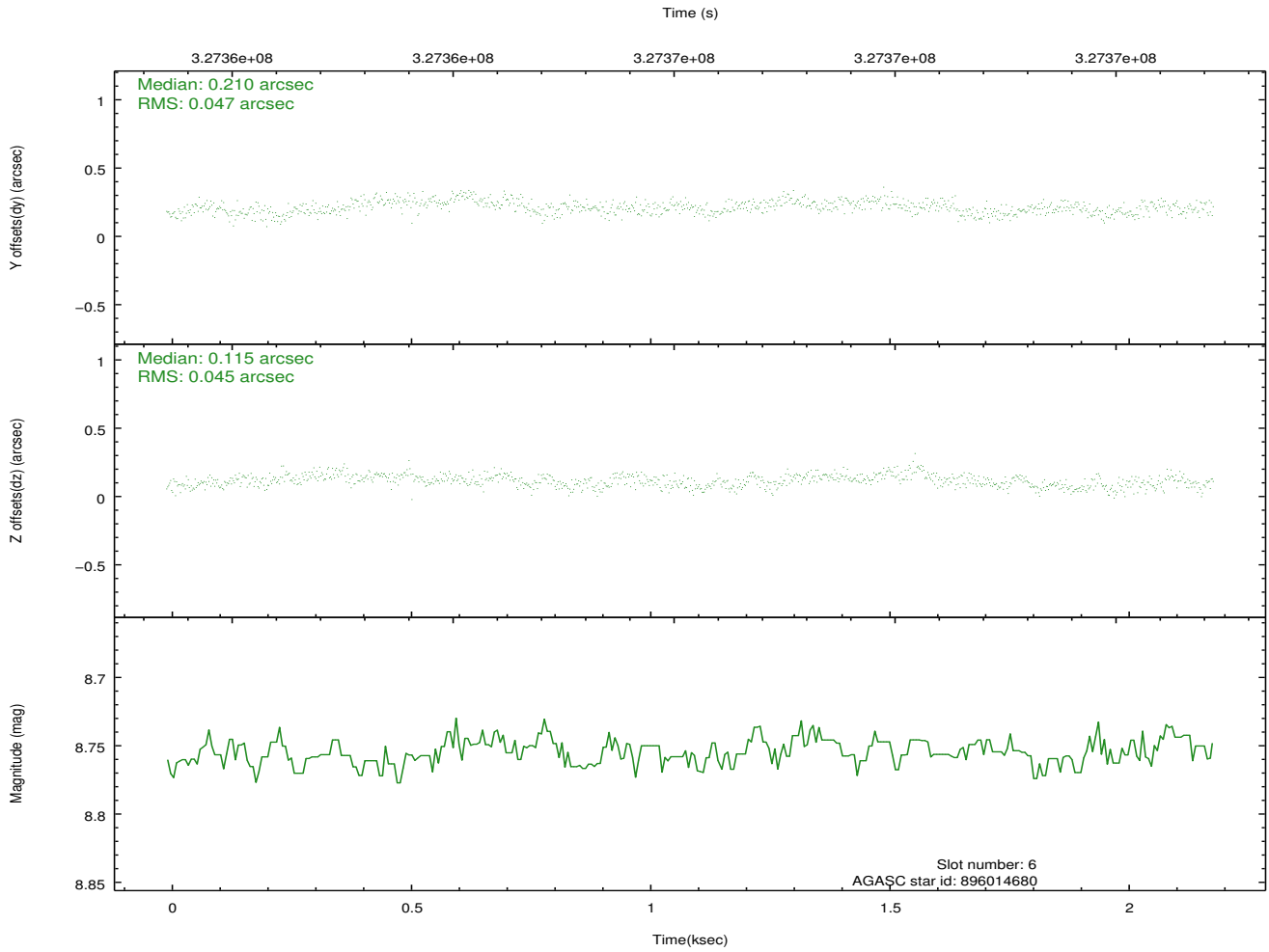
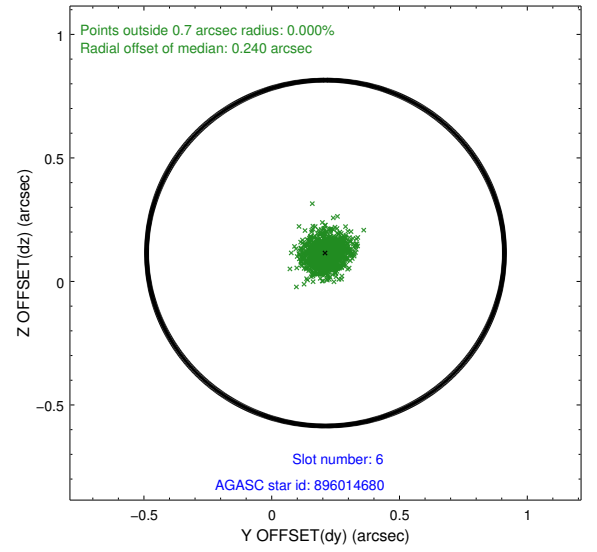
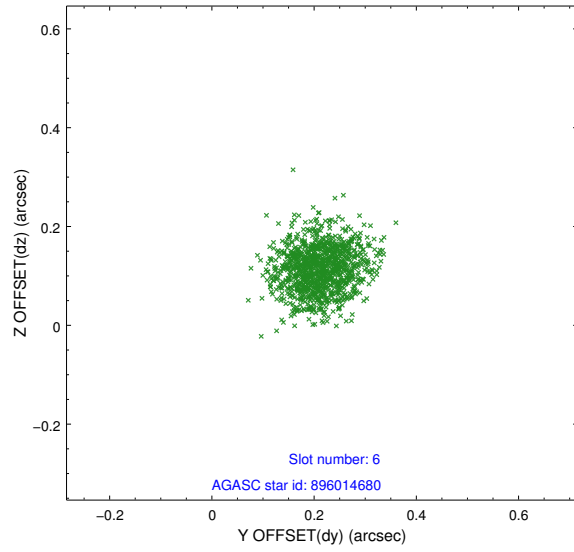
## 2.4.2 Slot 4



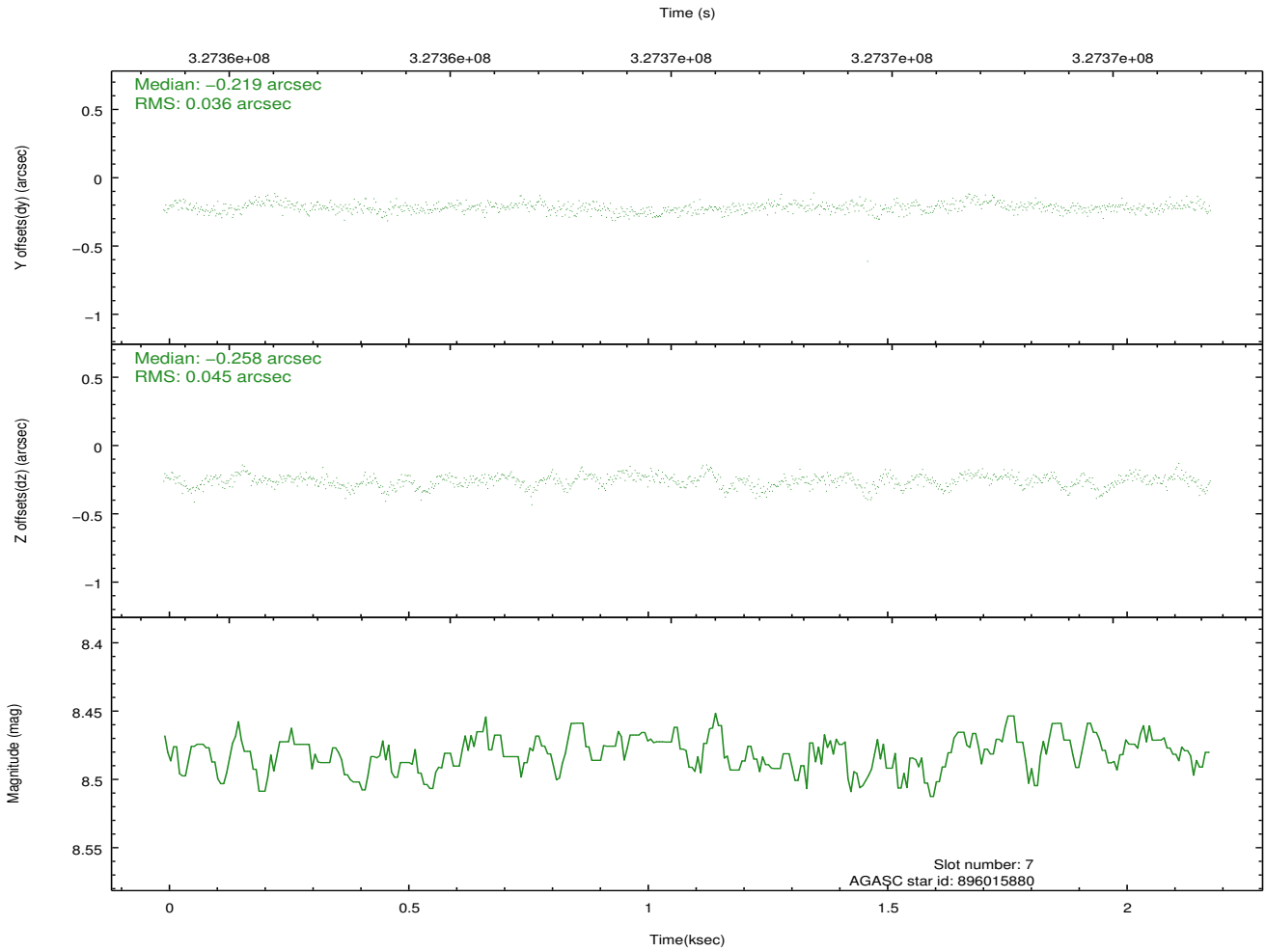
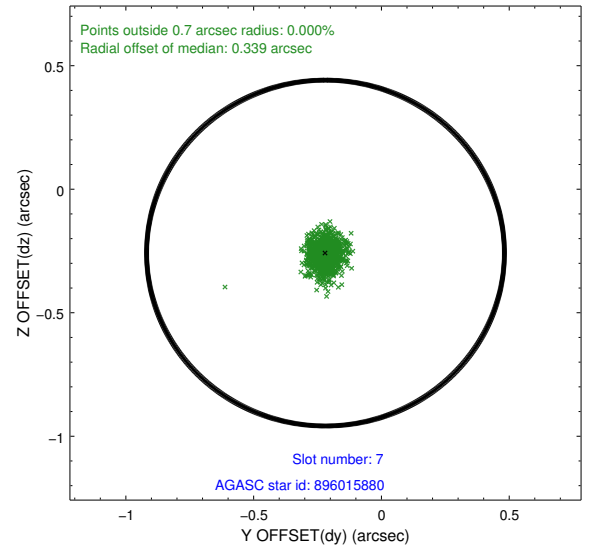
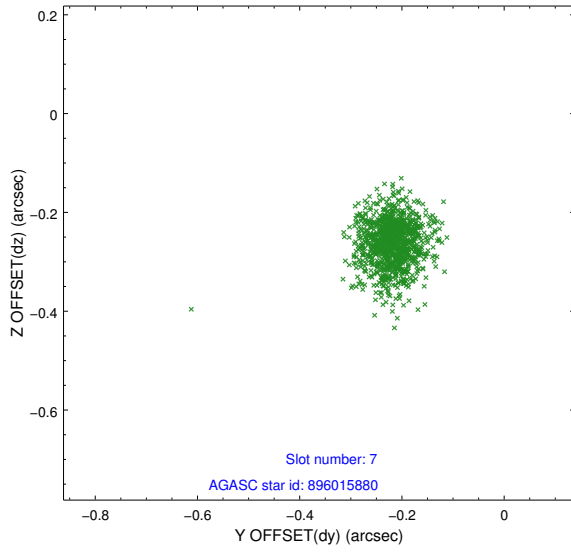
### 2.4.3 Slot 5



## 2.4.4 Slot 6

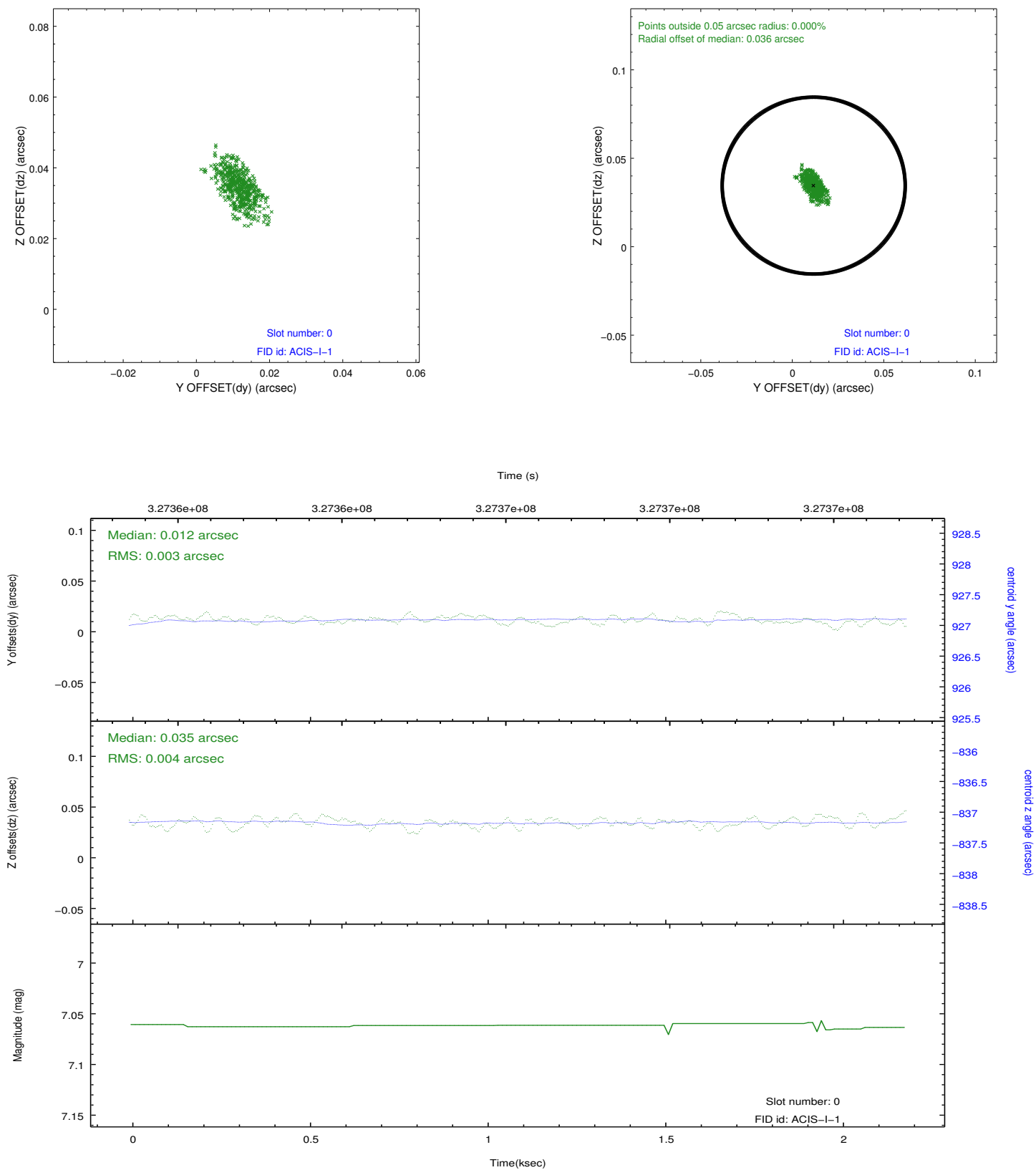


## 2.4.5 Slot 7

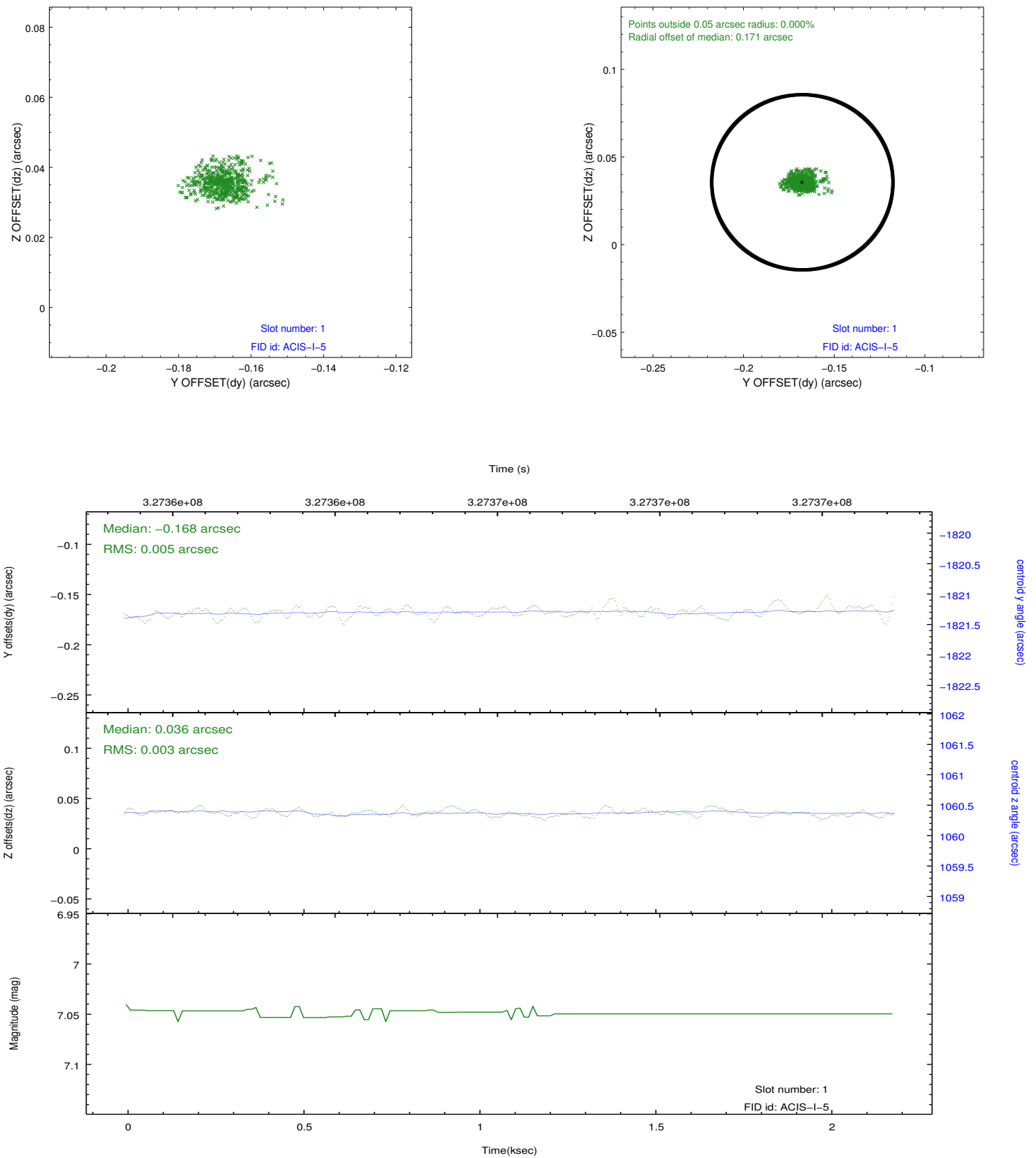


## 2.5 FID Slots

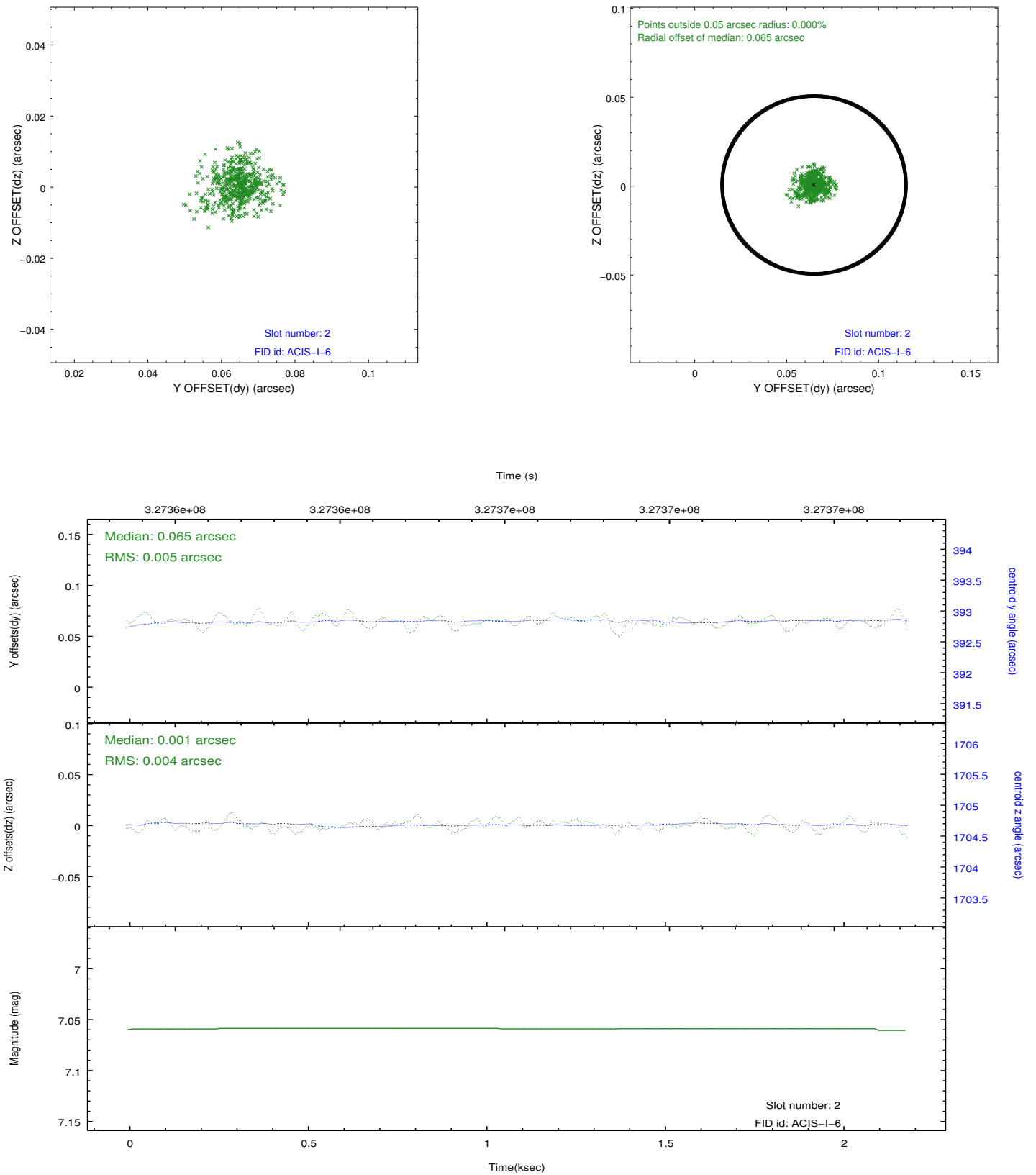
### 2.5.1 Slot 0



## 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)	2012.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments