

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8682 - L2 Version 2  
Chandra X-Ray Center

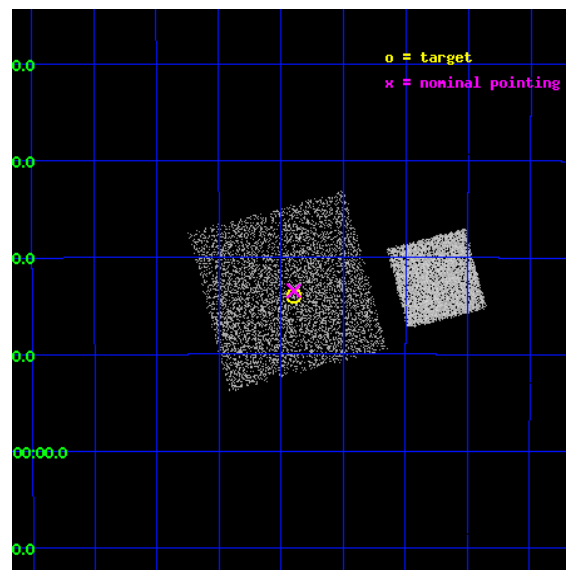
L2 Processing Date : May 15 2012

## 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

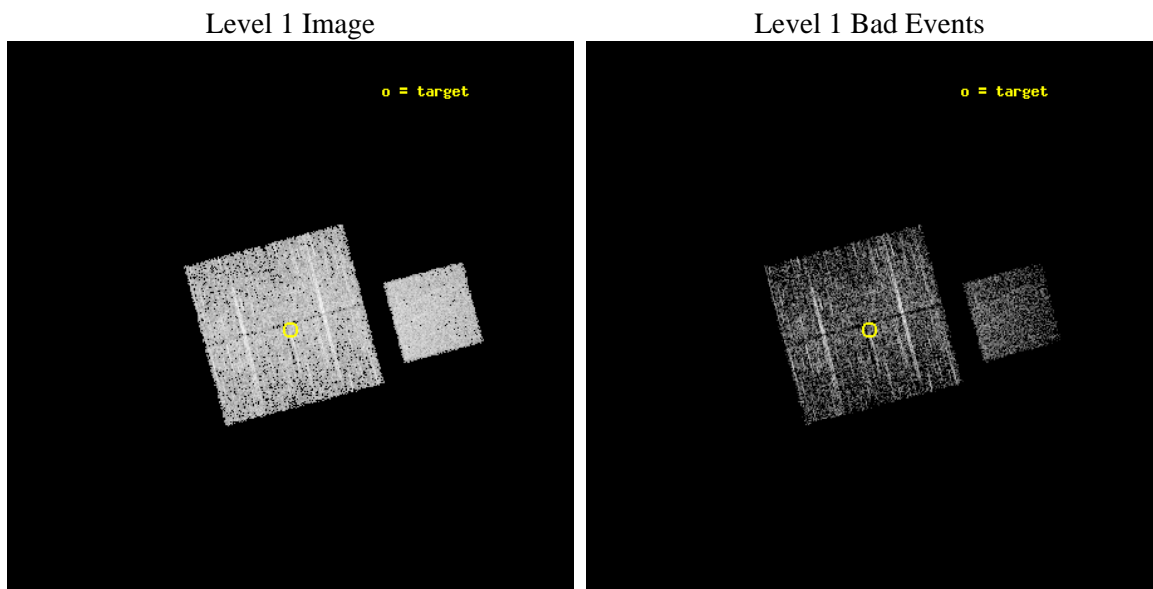
seq_num	400733	Sequence number
obs_id	8682	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.349859	Observer's specified target RA [deg]
dec_targ	-29.732469	Observer's specified target Dec [deg]
ra_nom	264.34935060493	Nominal RA [deg]
dec_nom	-29.724283736638	Nominal Dec [deg]
roll_nom	75.208439998891	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.6000168324	Sum of GTIs [s]
livetime	2160.0043463885	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2188.6000168324	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	16012	Number of level 2 events



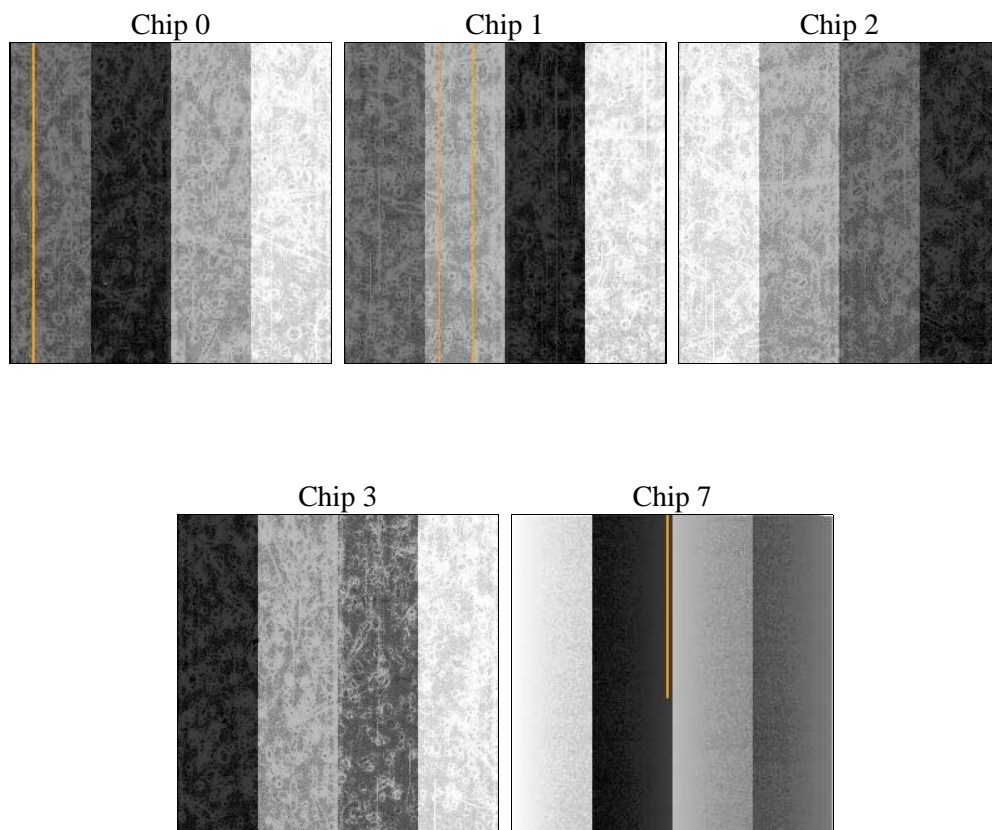
## 2 OBI

### 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	2188.6000168324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-15T05:03:19	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2188.6000168324	Sum of GTIs [s]
			ontime3	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	99641	Number of level 1 events

### 2.1.4 Events

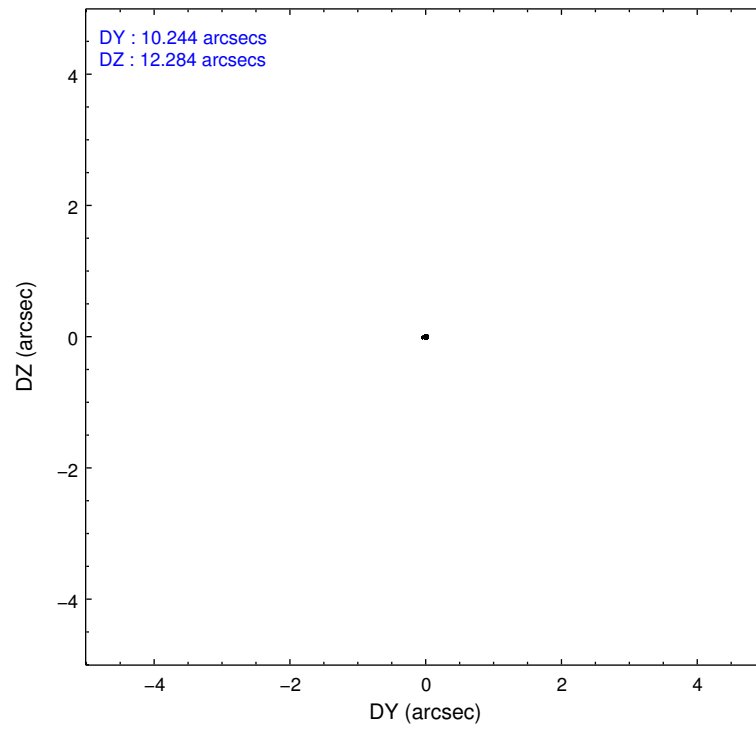
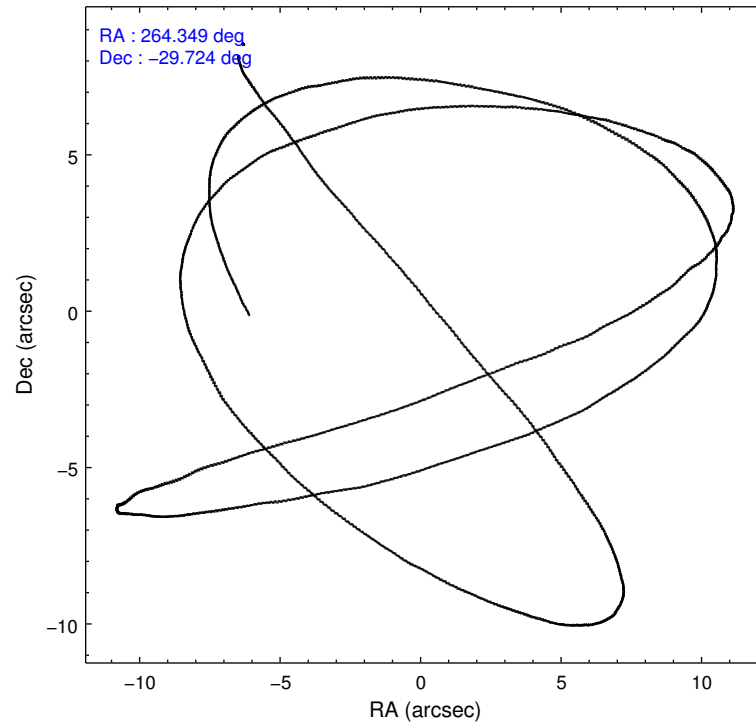
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18009	18507	20697	19107	23321
rejected events	16003	16262	18693	17167	13916
rejected %	88%	87%	90%	89%	59%

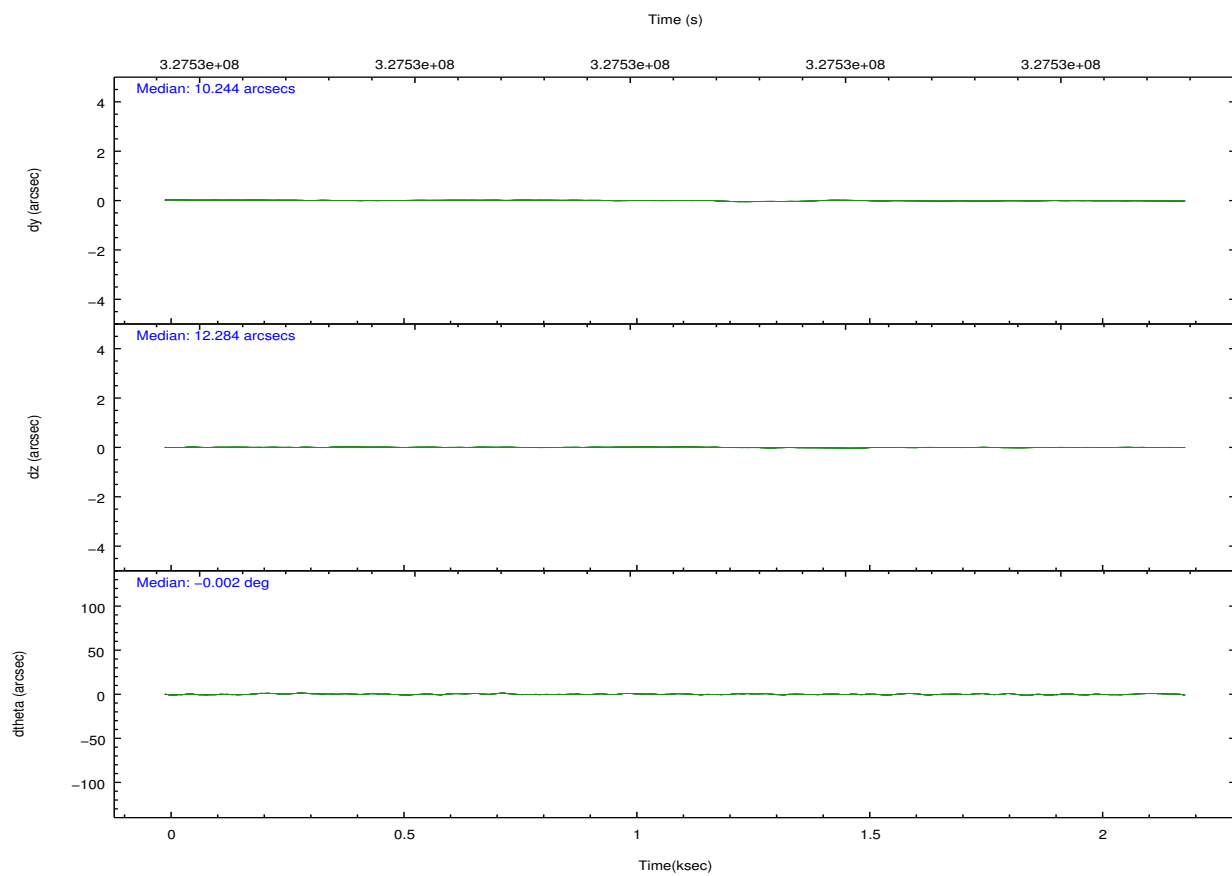
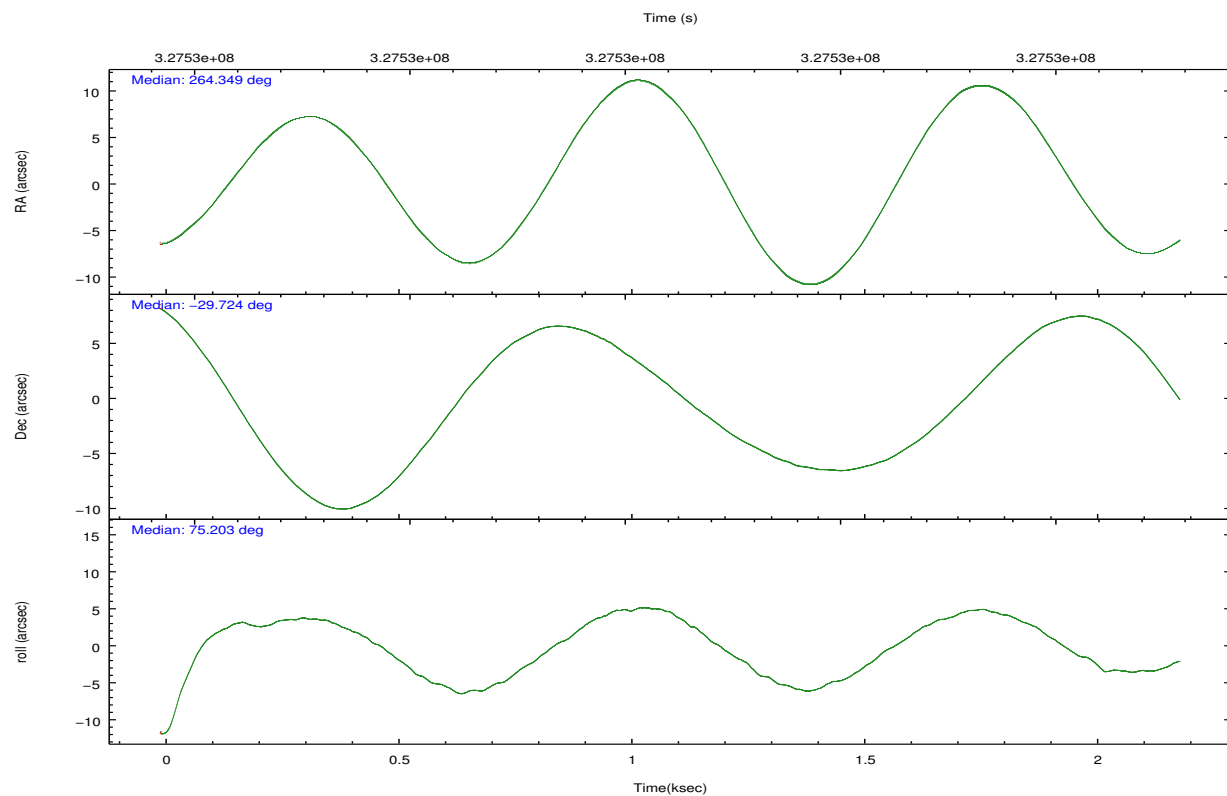
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	949	979	945	920	1041
	5%	5%	4%	4%	4%
grade 1 events	7	12	14	12	43
	0%	0%	0%	0%	0%
grade 2 events	537	571	504	456	2213
	2%	3%	2%	2%	9%
grade 3 events	234	263	245	236	979
	1%	1%	1%	1%	4%
grade 4 events	231	270	222	223	1037
	1%	1%	1%	1%	4%
grade 5 events	749	782	680	866	2404
	4%	4%	3%	4%	10%
grade 6 events	366	467	360	377	5549
	2%	2%	1%	1%	23%
grade 7 events	14936	15163	17727	16017	10055
	82%	81%	85%	83%	43%

## 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	264.357887	264.3493506049332	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.750900	-29.72428373663772	CCD I3 on	Y	Y
[deg] Pointing Roll	75.003991	75.20843999889074	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)	327530193.184000	327529817.36095	CCD S5 on	N	N
Observation start date	2008-05-18T20:35:28	2008-05-18T20:30:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327532193.184000	327532327.58608	On-chip summing requested	N	N
Observation end date	2008-05-18T21:08:48	2008-05-18T21:12:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





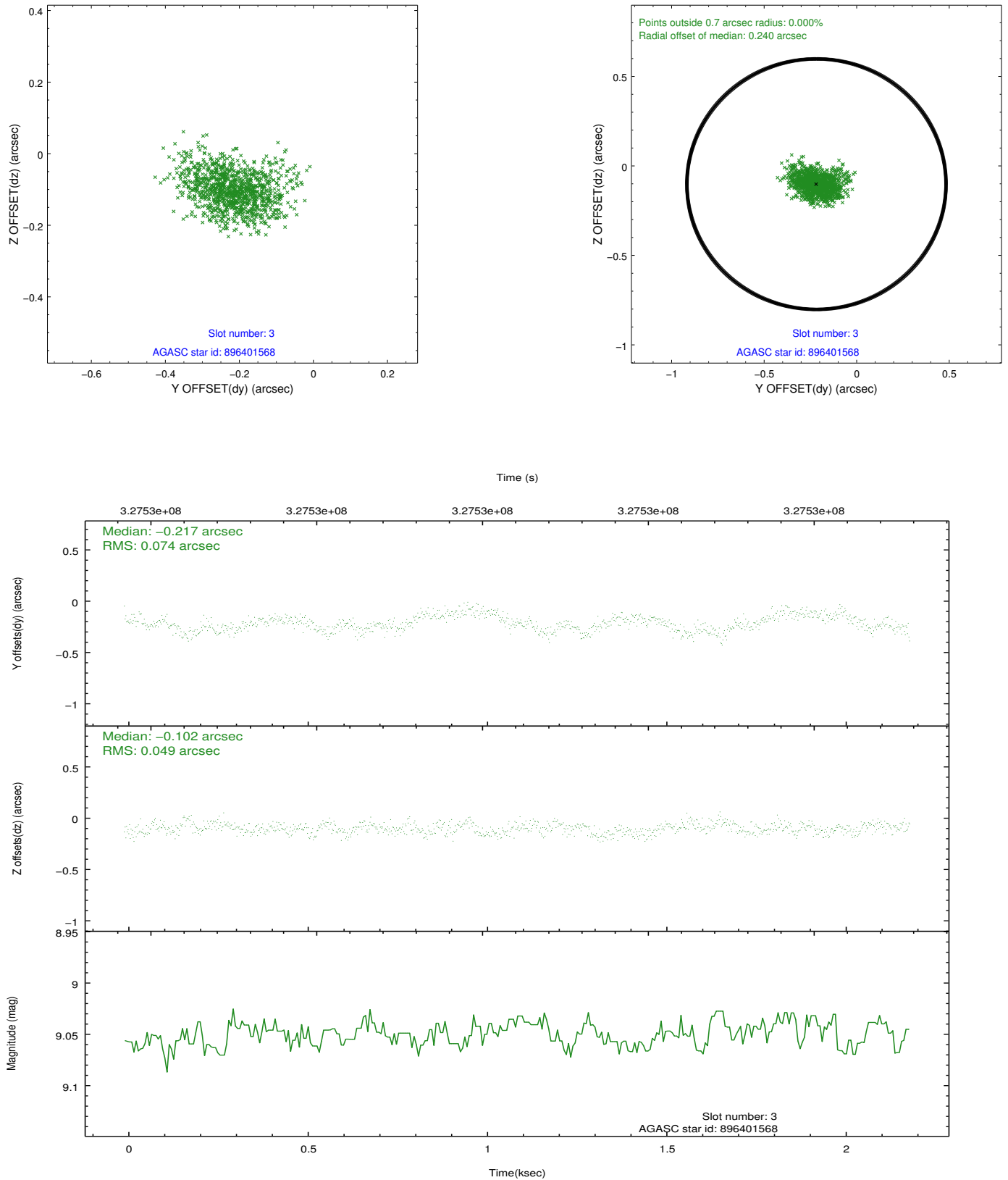
### Slot Statistics

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	535	0.005	-0.033	0.009	0.015	0.000000	0.000000	929.36	-835.84
1	FID	ACIS-I-4	6.99	535	0.073	0.044	0.008	0.013	0.000000	0.000000	2151.11	1062.56
2	FID	ACIS-I-5	7.04	535	-0.176	0.060	0.007	0.013	0.000000	0.000000	-1815.01	1063.79
3	GUIDE	896401568	9.05	1069	-0.217	-0.102	0.094	0.158	263.971355	-29.230315	1493.63	1657.22
4	GUIDE	896401864	7.87	1069	0.125	0.051	0.067	0.108	264.861768	-29.959752	-321.41	-1712.15
5	GUIDE	896404376	6.68	1069	-0.179	0.117	0.081	0.123	264.835179	-29.530972	1148.14	-1241.67
6	GUIDE	966790736	9.60	1069	0.201	-0.009	0.127	0.202	263.676115	-30.229924	-2219.61	1599.03
7	GUIDE	966794640	9.33	1065	0.070	-0.059	0.093	0.150	263.854004	-30.029028	-1379.13	1258.13

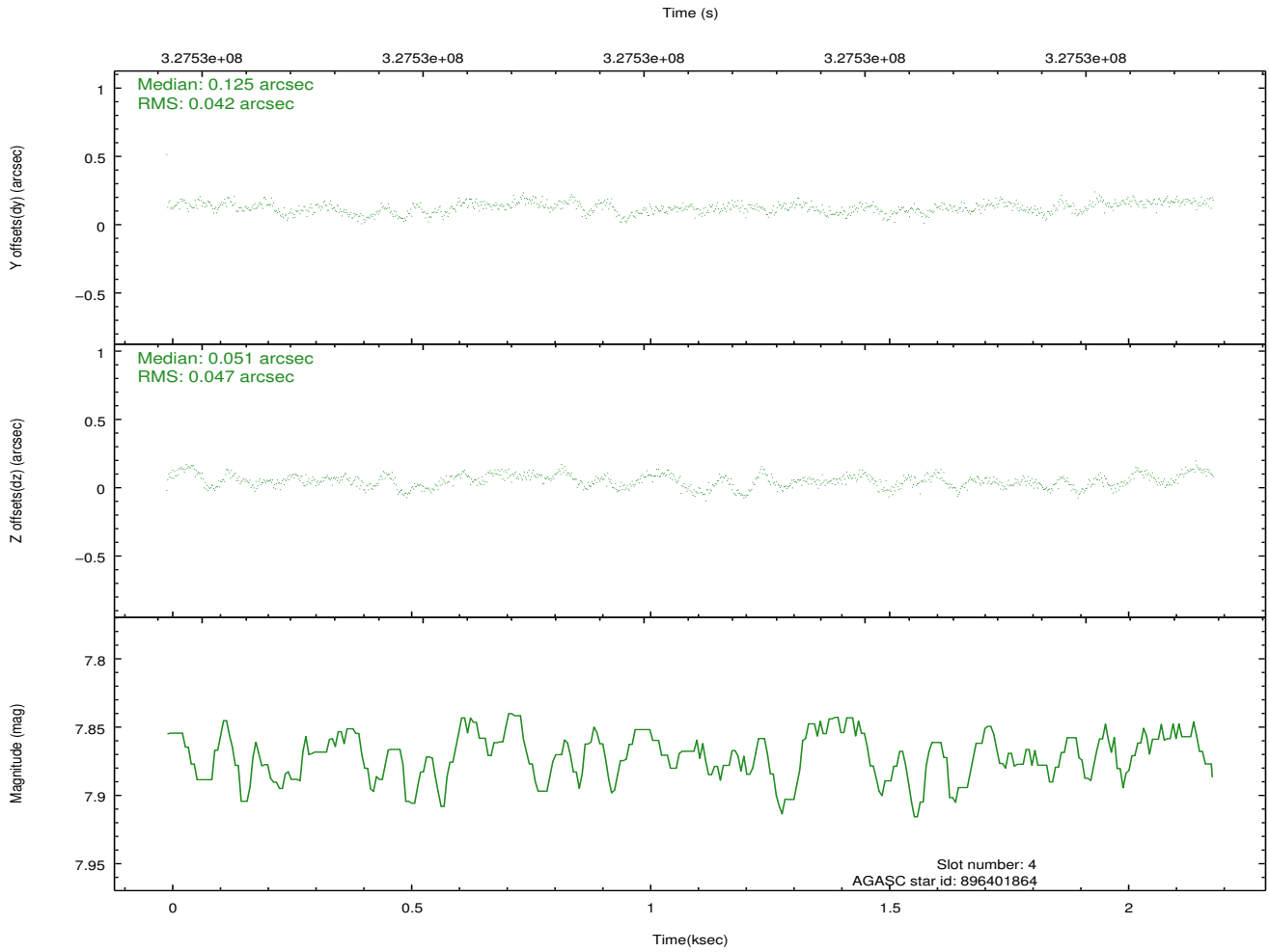
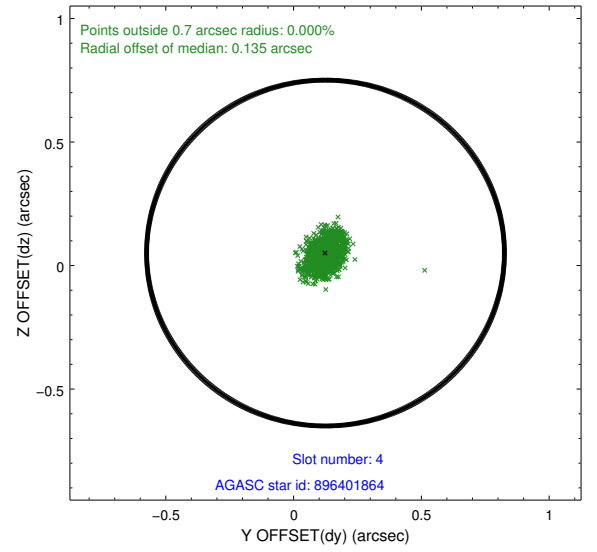
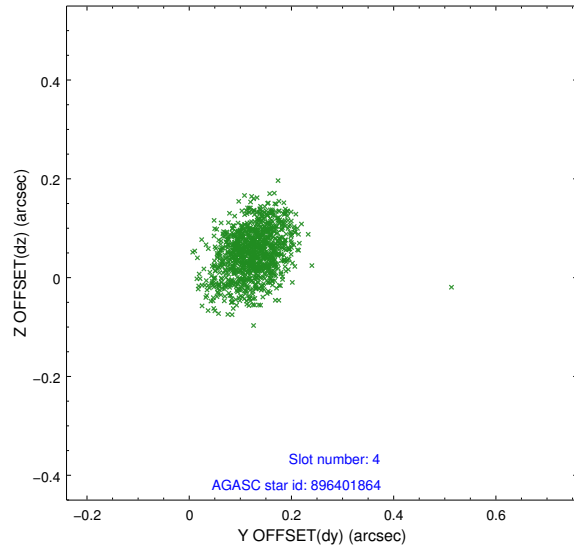


## 2.4 Star Slots

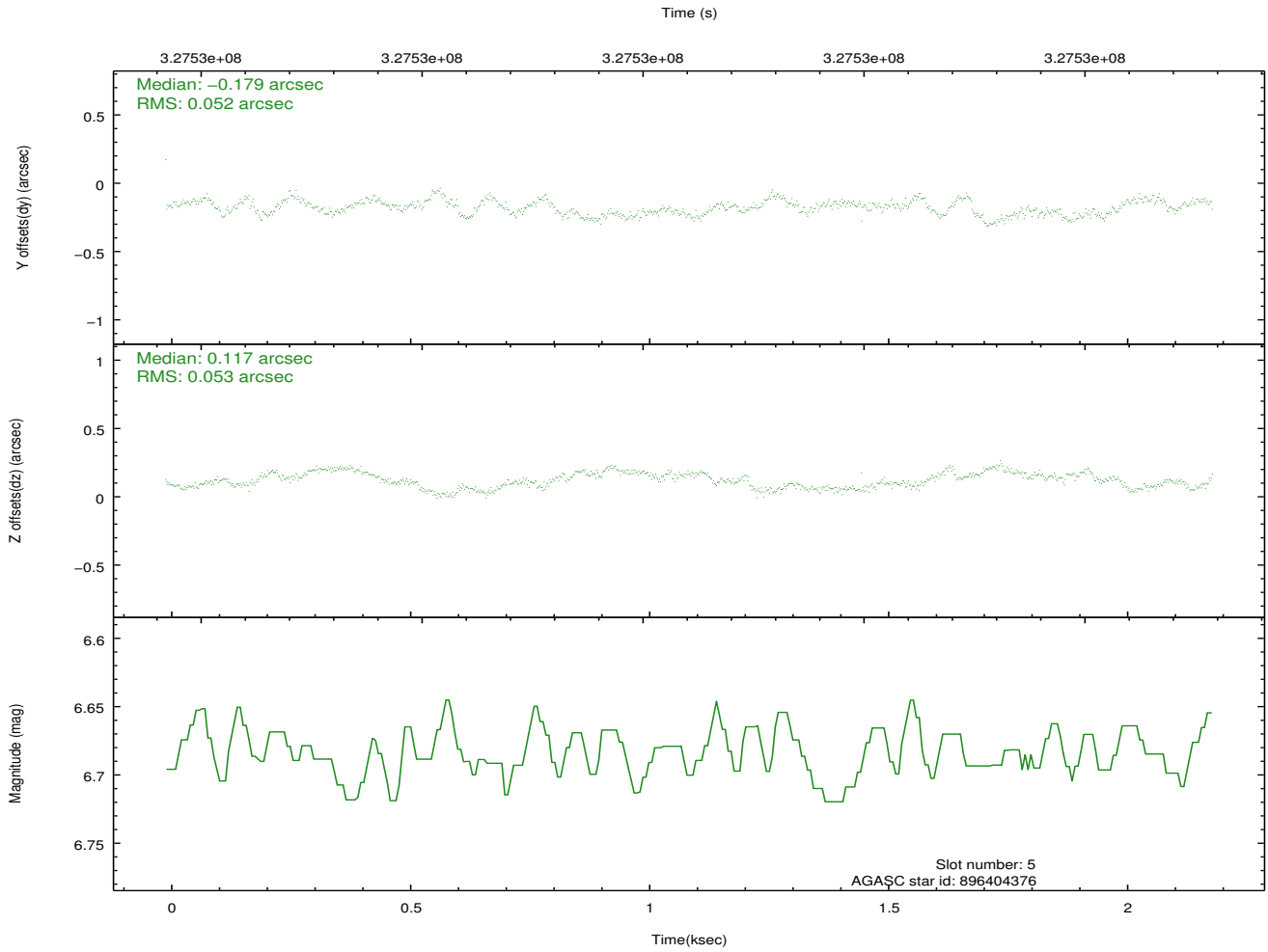
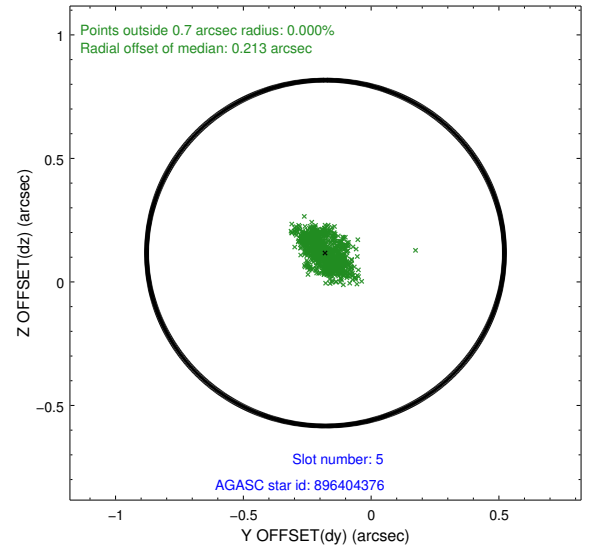
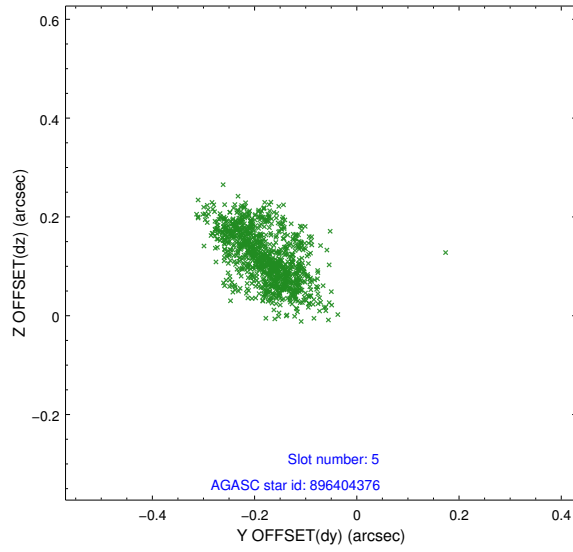
### 2.4.1 Slot 3



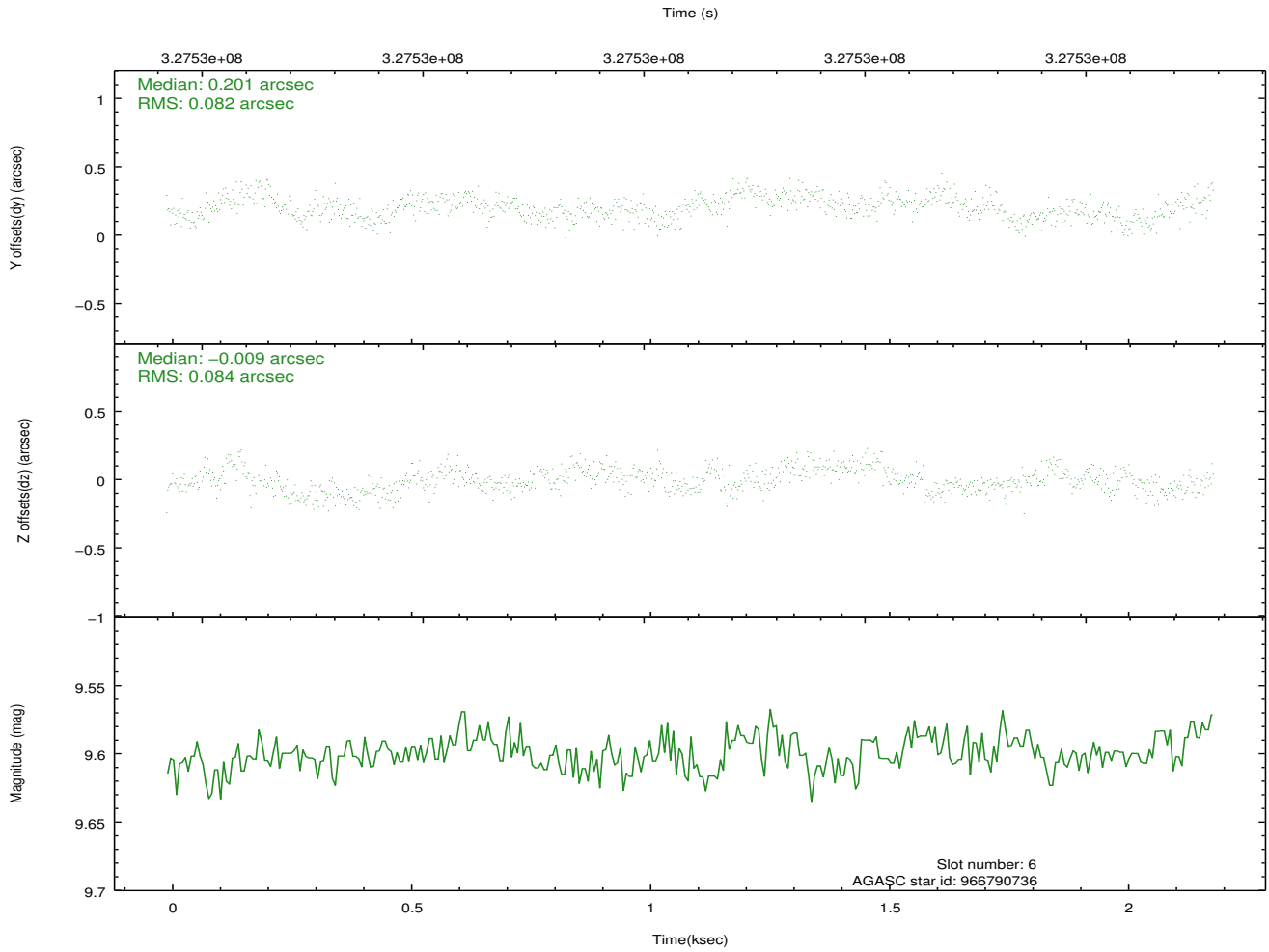
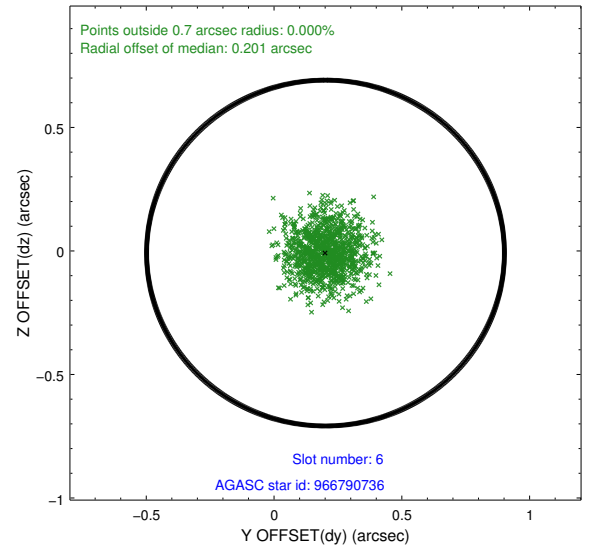
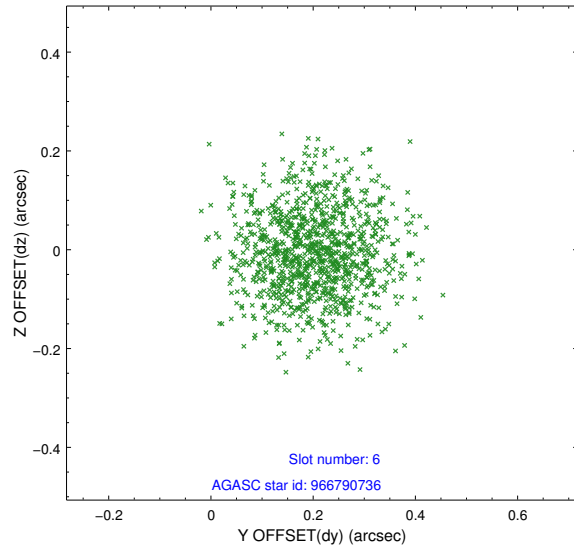
## 2.4.2 Slot 4



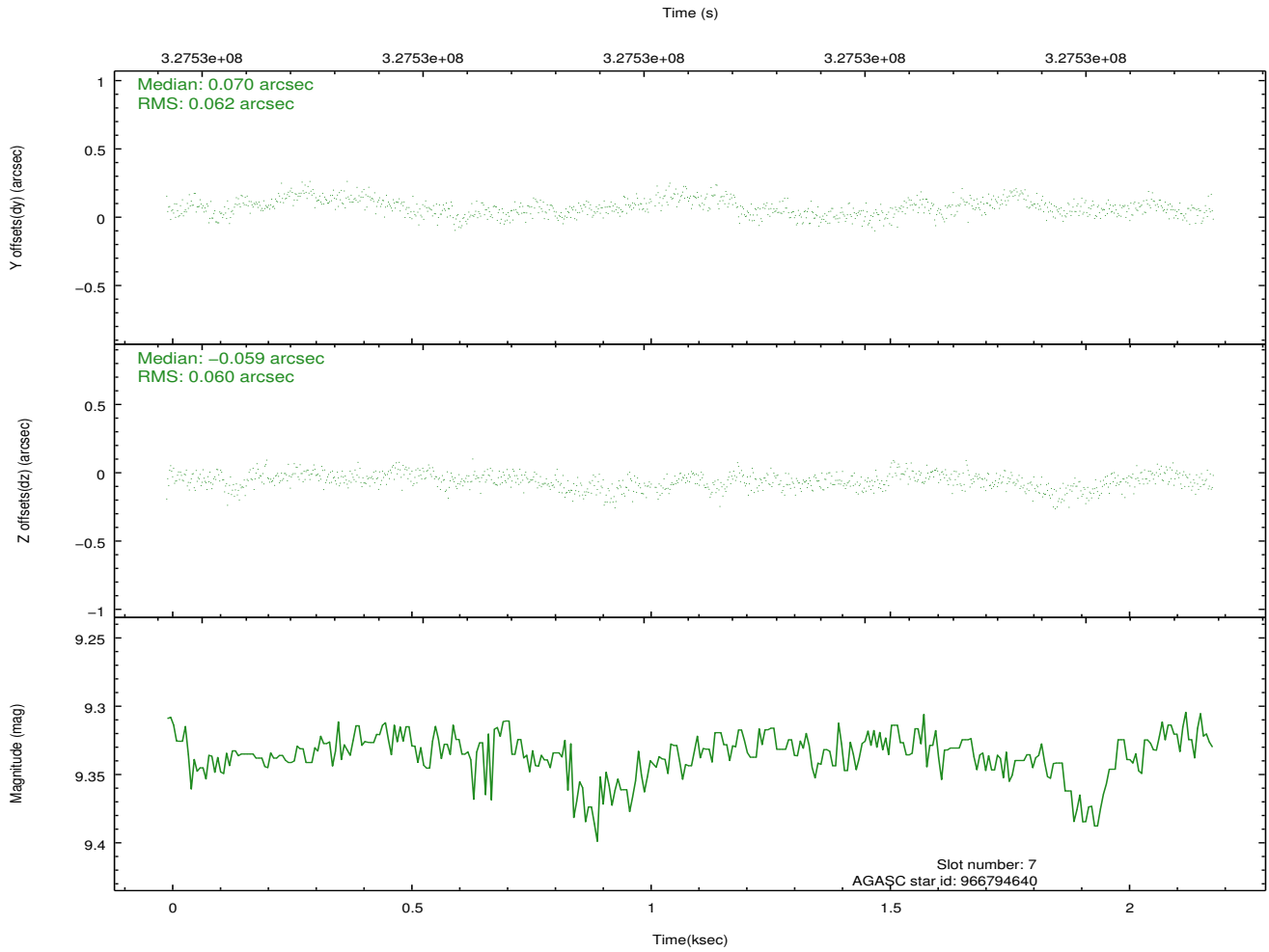
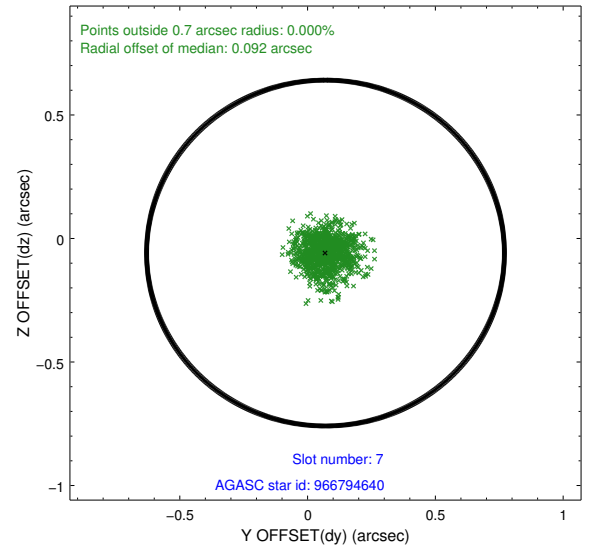
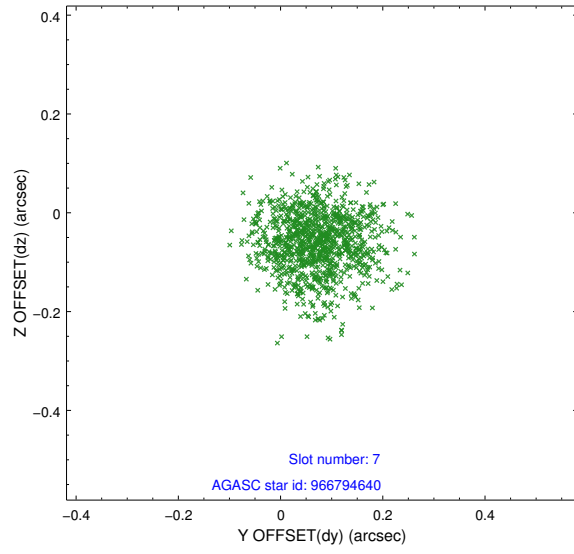
### 2.4.3 Slot 5



## 2.4.4 Slot 6

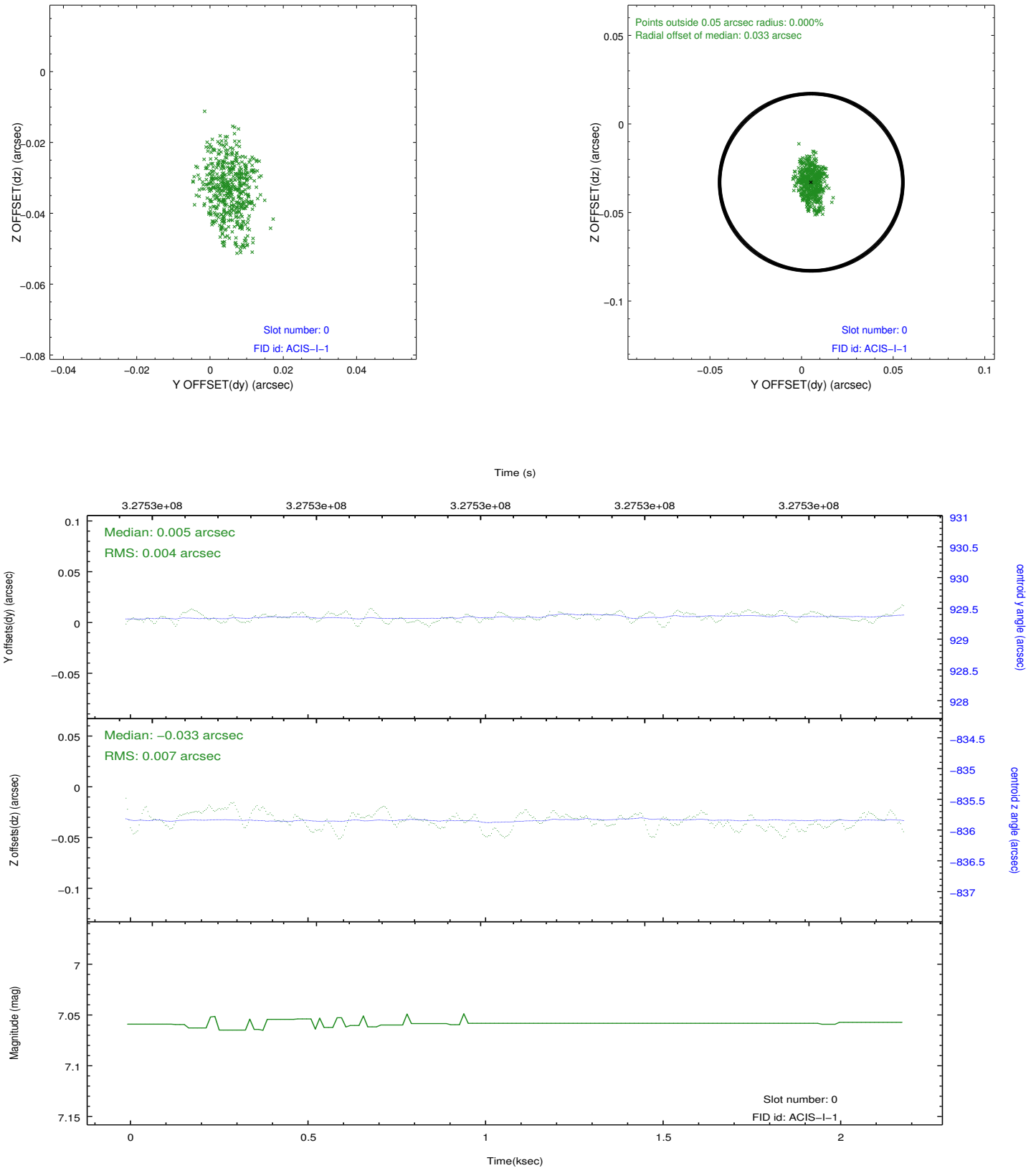


## 2.4.5 Slot 7

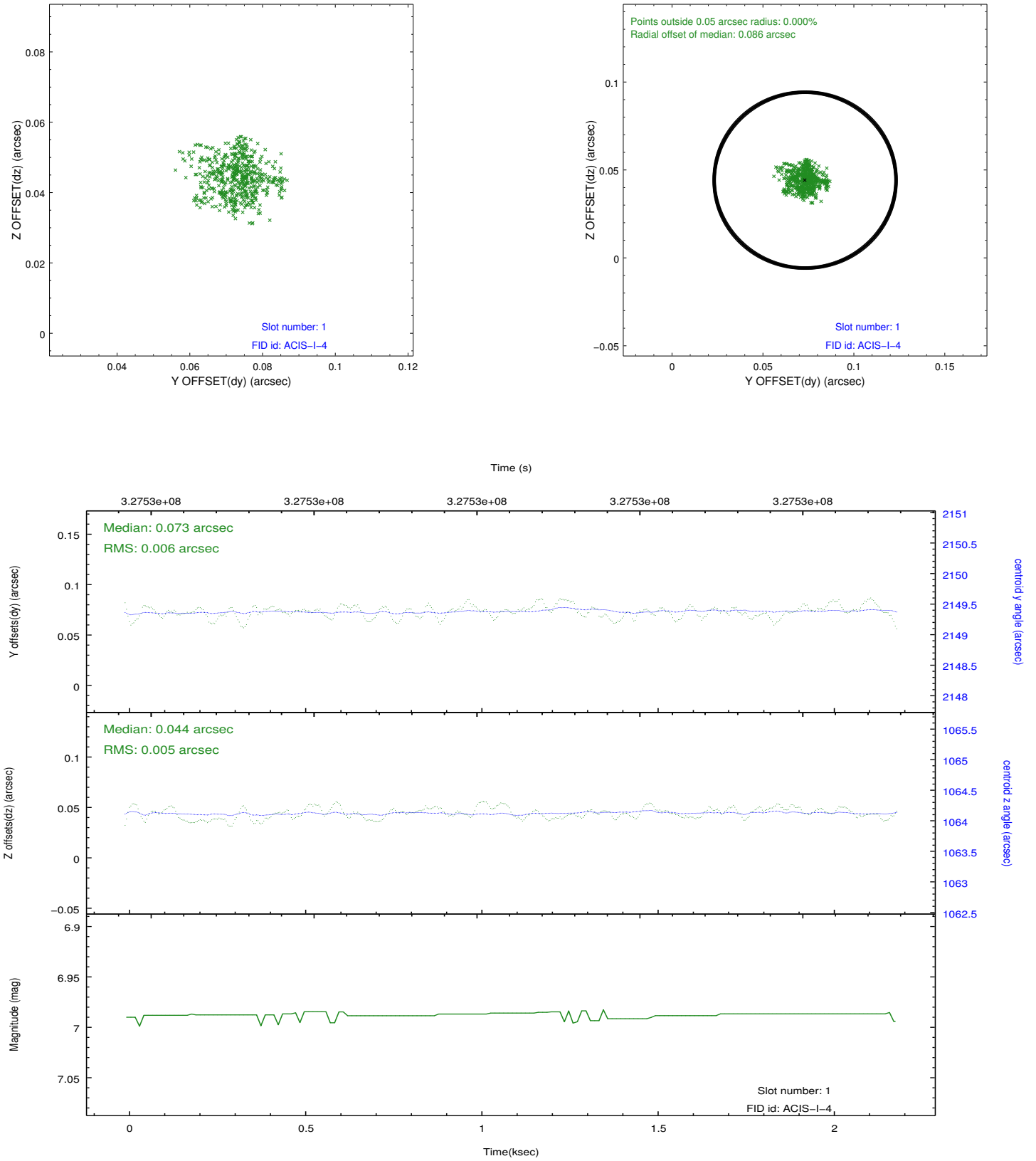


## 2.5 FID Slots

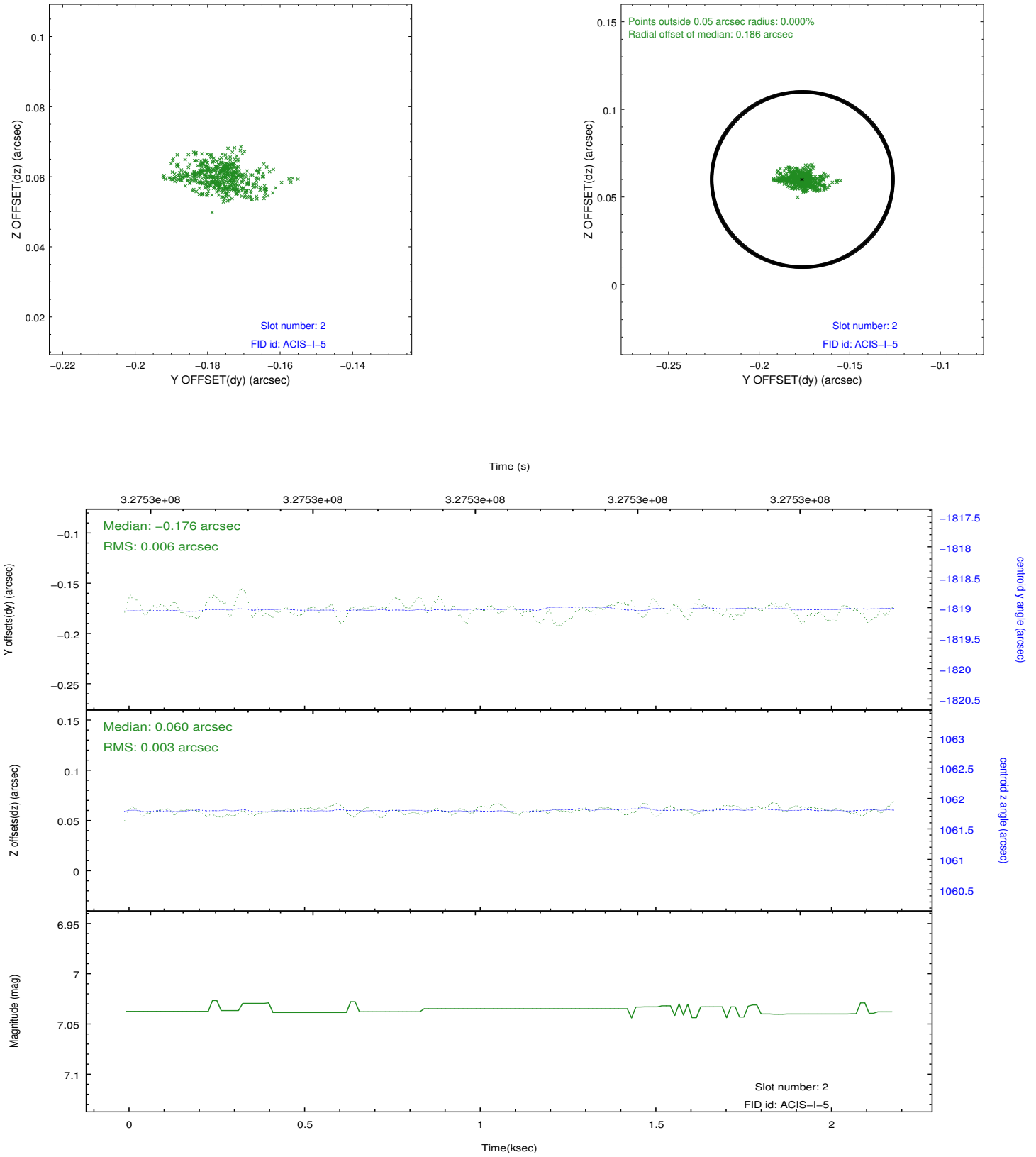
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18860001

### A.2 Comments