

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10237 - L2 Version 2  
Chandra X-Ray Center

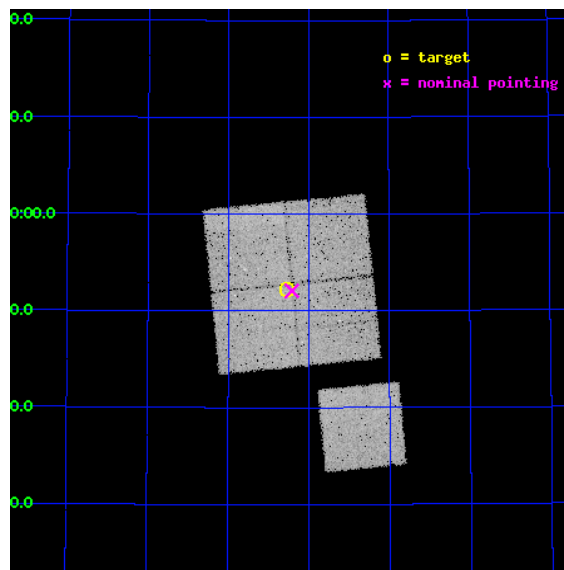
L2 Processing Date : May 29 2012

## 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

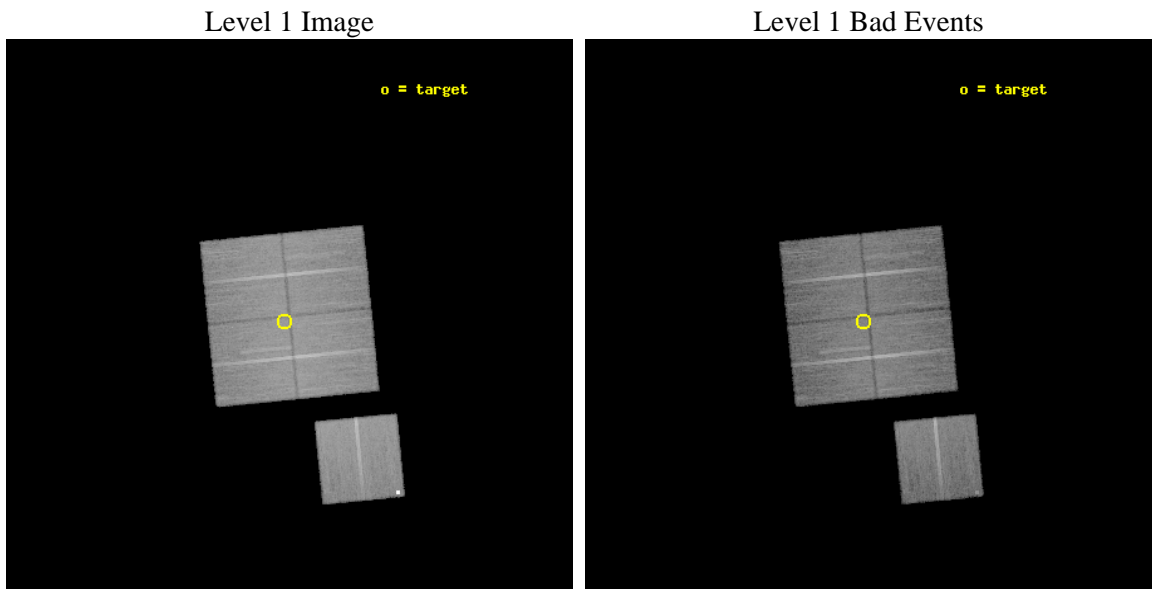
seq_num	701780	Sequence number
obs_id	10237	Observation id
title	The multi-faceted X-ray activity of low-redshift active galaxies	P
observer	Prof Mark Birkinshaw	Principal investigator
object	DA 240 E	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	117.31625	Observer's specified target RA [deg]
dec_targ	55.869528	Observer's specified target Dec [deg]
ra_nom	117.30215877161	Nominal RA [deg]
dec_nom	55.867903307475	Nominal Dec [deg]
roll_nom	174.31044021917	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24402.201081932	Sum of GTIs [s]
livetime	24083.368360157	Livetime [s]
ontime0	24402.077961922	Sum of GTIs [s]
ontime1	24398.978001535	Sum of GTIs [s]
ontime2	24399.019061565	Sum of GTIs [s]
ontime3	24402.201081932	Sum of GTIs [s]
ontime6	24402.036921918	Sum of GTIs [s]
l2events	89197	Number of level 2 events



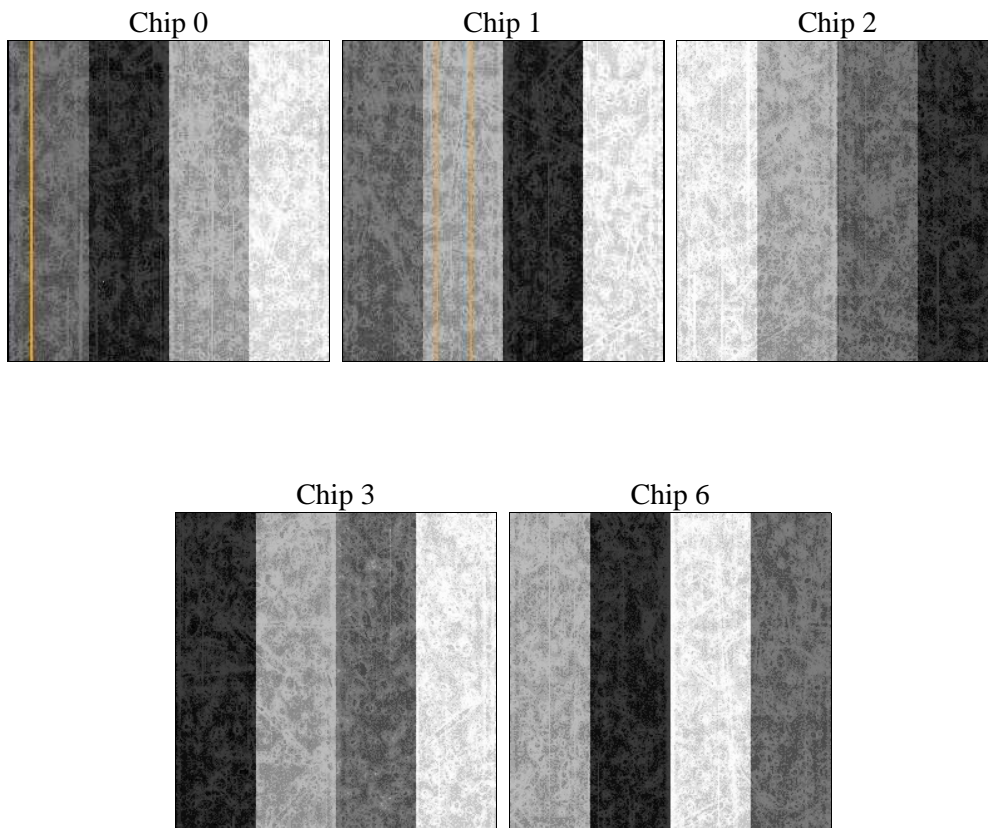
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24358.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	24402.201081932	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	24402.077961922	Sum of GTIs [s]
date	2012-05-29T01:48:05	Date and time of file creation	ontime1	24398.978001535	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	24399.019061565	Sum of GTIs [s]
			ontime3	24402.201081932	Sum of GTIs [s]
			ontime6	24402.036921918	Sum of GTIs [s]
			l1events	1035634	Number of level 1 events

### 2.1.4 Events

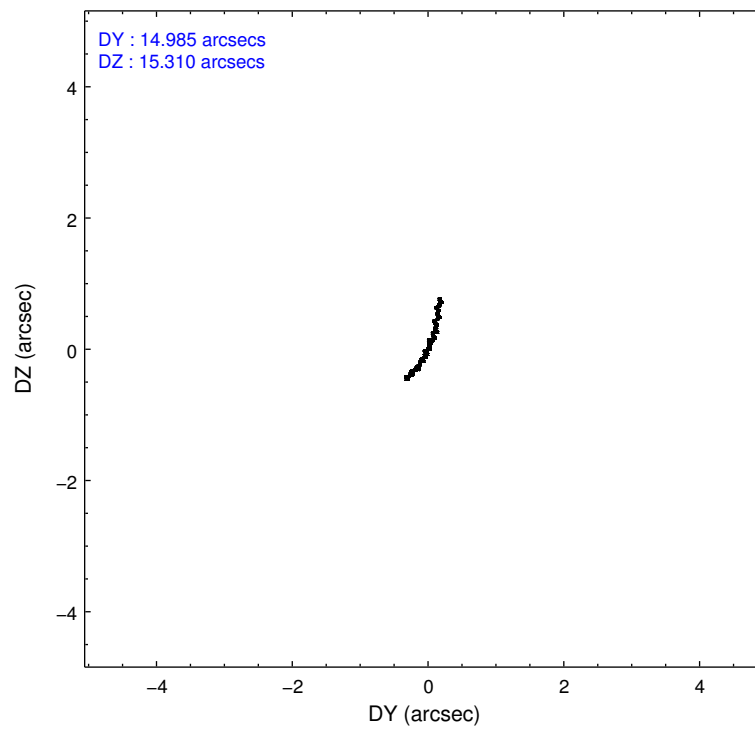
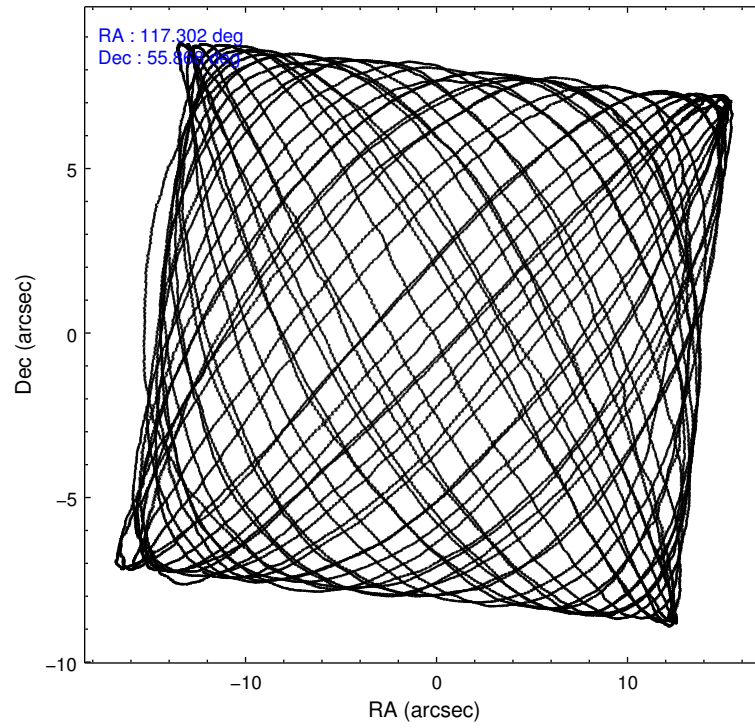
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	191808	195457	216368	205398	226603
rejected events	170751	171781	195357	185317	188196
rejected %	89%	87%	90%	90%	83%

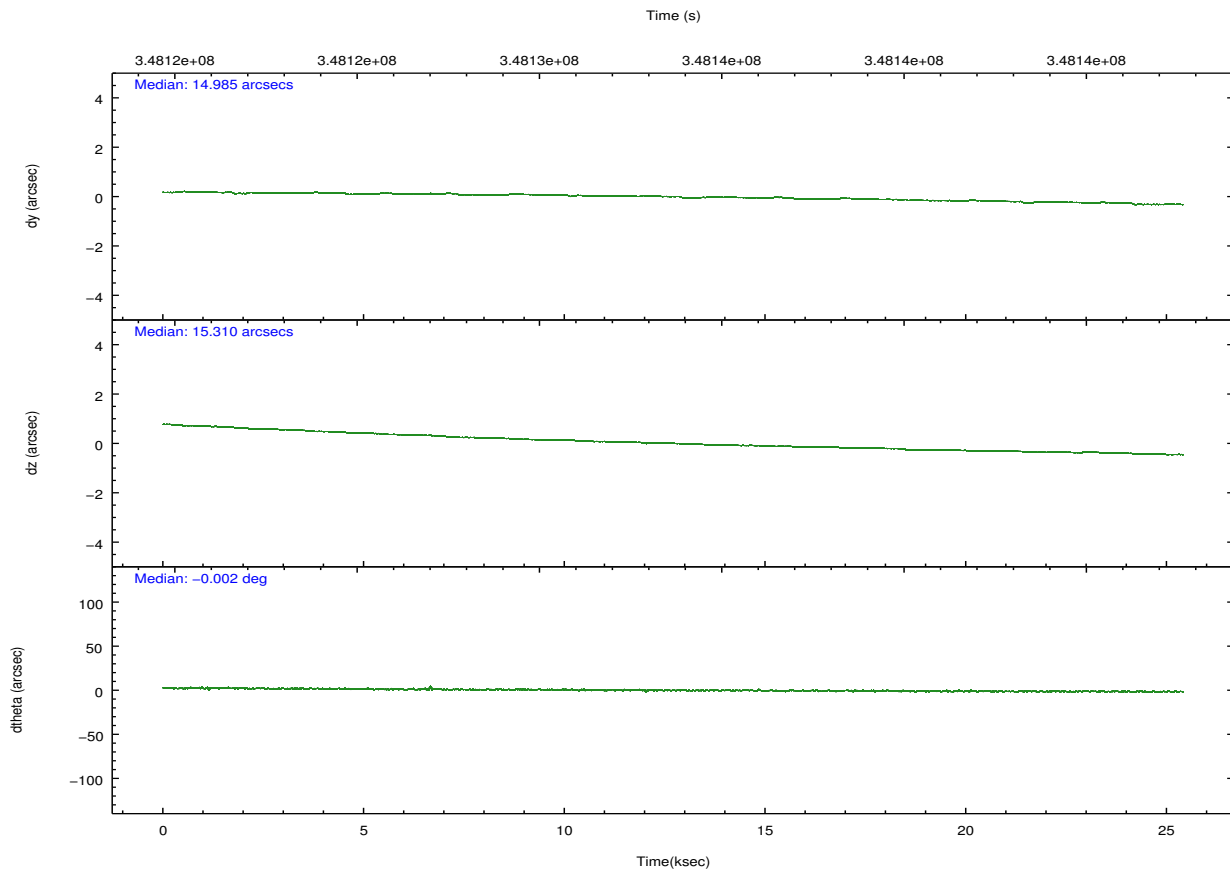
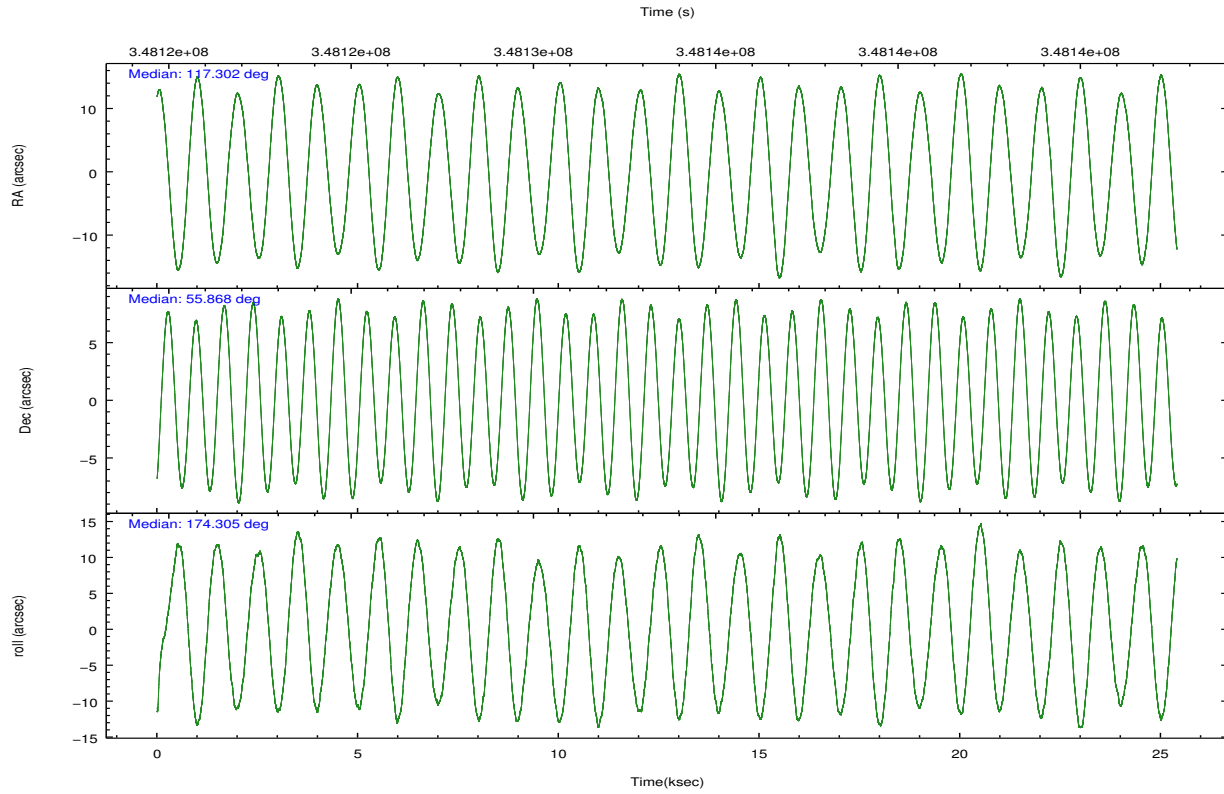
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7281	8617	7508	7131	13262
	3%	4%	3%	3%	5%
grade 1 events	105	121	124	138	148
	0%	0%	0%	0%	0%
grade 2 events	5122	5380	5111	4524	15781
	2%	2%	2%	2%	6%
grade 3 events	2296	2390	2109	2221	2340
	1%	1%	0%	1%	1%
grade 4 events	2174	2478	2264	2228	2250
	1%	1%	1%	1%	0%
grade 5 events	7625	8277	7230	8535	8528
	3%	4%	3%	4%	3%
grade 6 events	4185	4813	4022	3979	4781
	2%	2%	1%	1%	2%
grade 7 events	163020	163381	188000	176642	179513
	84%	83%	86%	85%	79%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	117.346732	117.3021587716137	CCD I2 on	Y	Y
[deg] Pointing Dec	55.879315	55.8679033074754	CCD I3 on	Y	Y
[deg] Pointing Roll	174.064851	174.3104402191696	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	348122014.184000	348120654.67042	CCD S5 on	N	N
Observation start date	2009-01-12T04:32:28	2009-01-12T04:10:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	348146372.184000	348147850.48427	On-chip summing requested	N	N
Observation end date	2009-01-12T11:18:26	2009-01-12T11:44:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





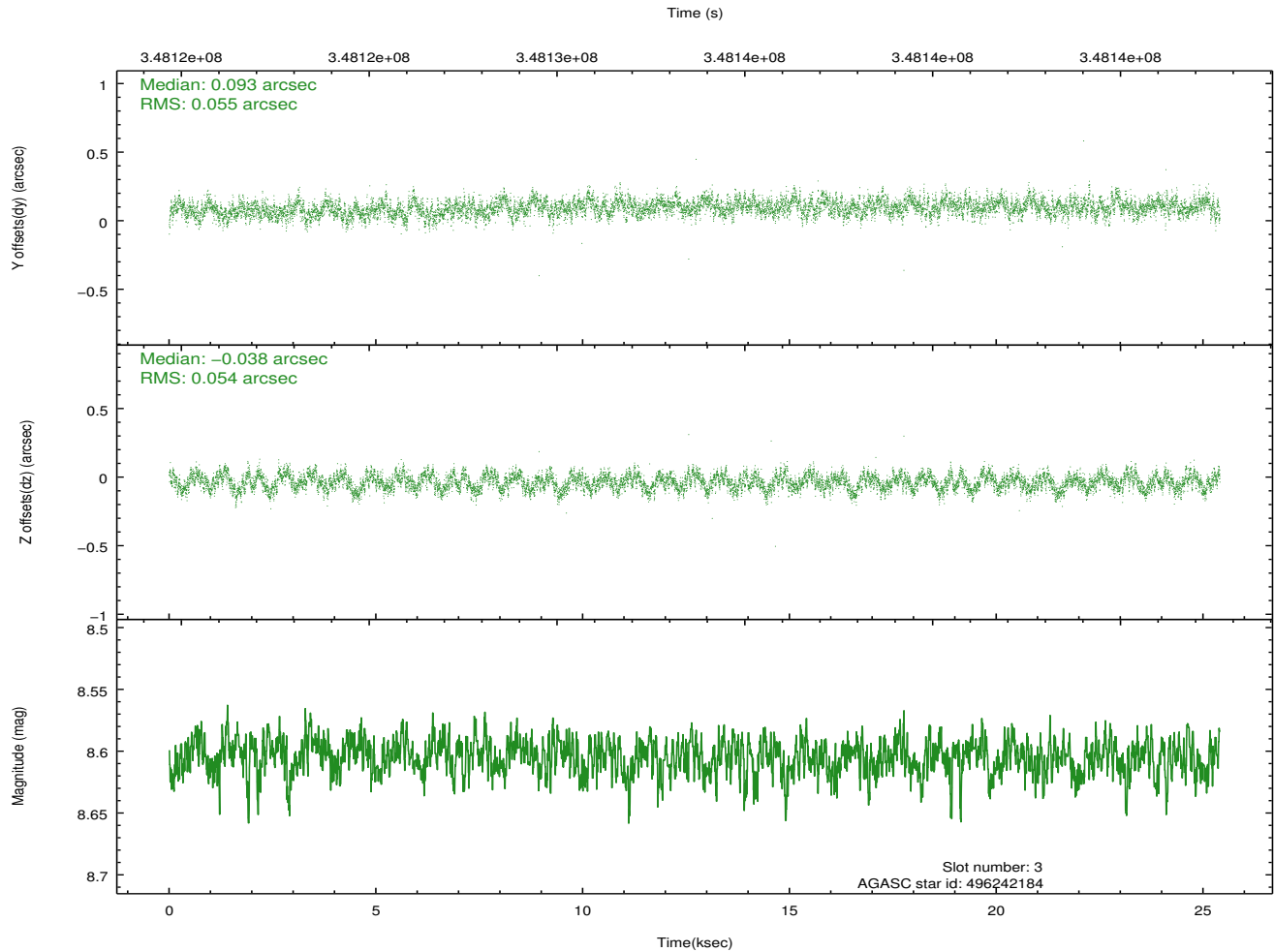
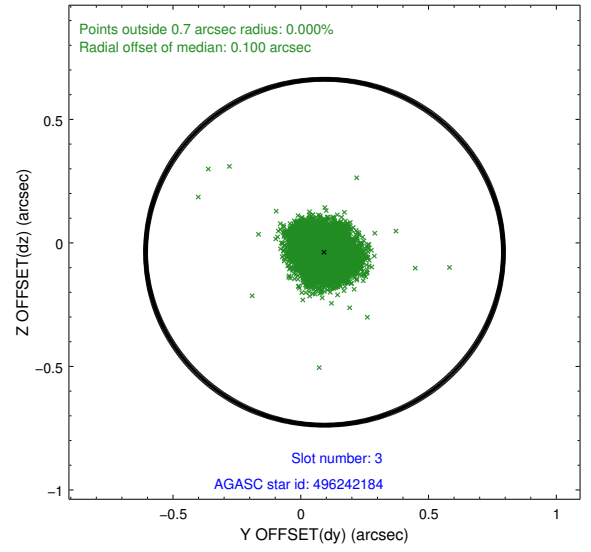
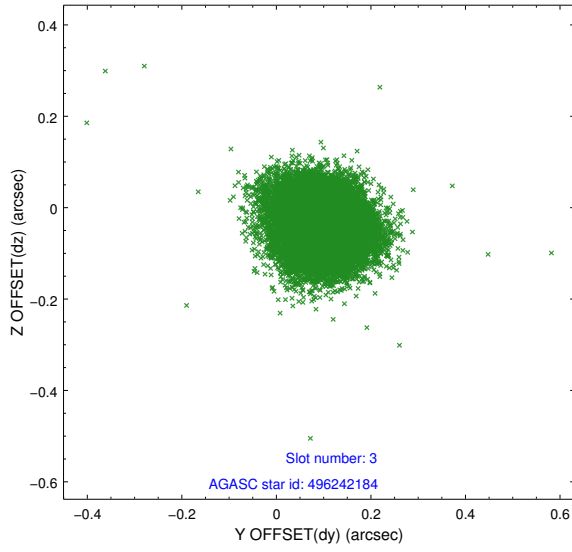
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	6196	0.037	-0.010	0.014	0.022	0.000000	0.000000	924.54	-838.98
1	FID	ACIS-I-5	7.02	6196	-0.216	0.041	0.009	0.014	0.000000	0.000000	-1823.76	1058.50
2	FID	ACIS-I-6	7.04	6196	0.088	0.038	0.012	0.018	0.000000	0.000000	390.00	1703.13
3	GUIDE	496242184	8.60	12384	0.093	-0.038	0.083	0.129	116.337982	56.137867	2111.05	-730.42
4	GUIDE	496370120	7.74	12392	0.012	0.081	0.056	0.090	118.444990	55.941218	-2177.10	-467.88
5	GUIDE	496373208	7.79	12383	-0.032	0.028	0.061	0.096	116.744717	55.493518	1077.82	1503.49
6	GUIDE	496379192	6.87	12387	-0.032	-0.075	0.071	0.117	118.151794	55.209446	-1893.20	2218.68
7	GUIDE	496909824	7.71	12392	-0.046	-0.001	0.058	0.094	117.782362	56.375378	-678.81	-1868.37

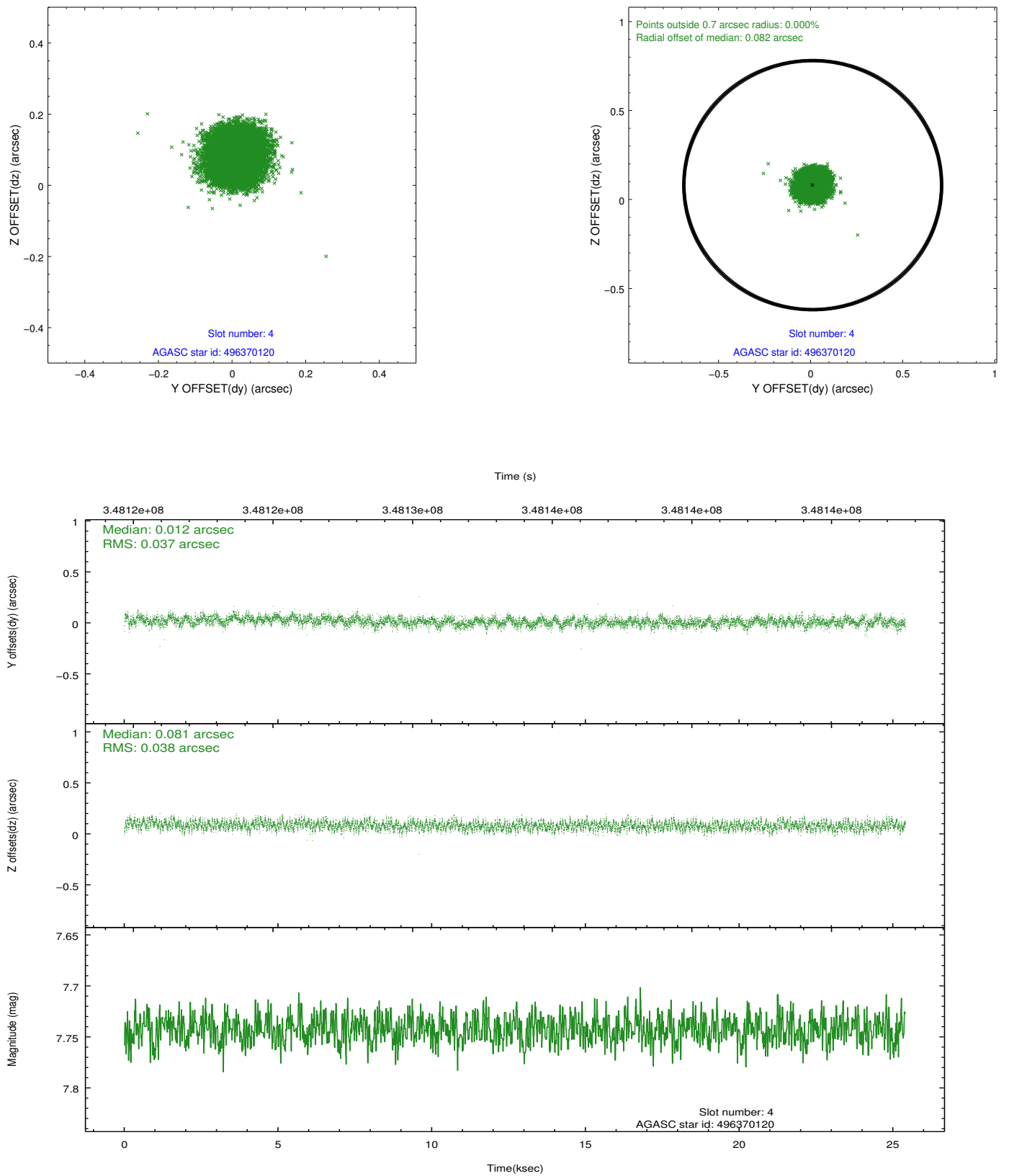
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## 2.4 Star Slots

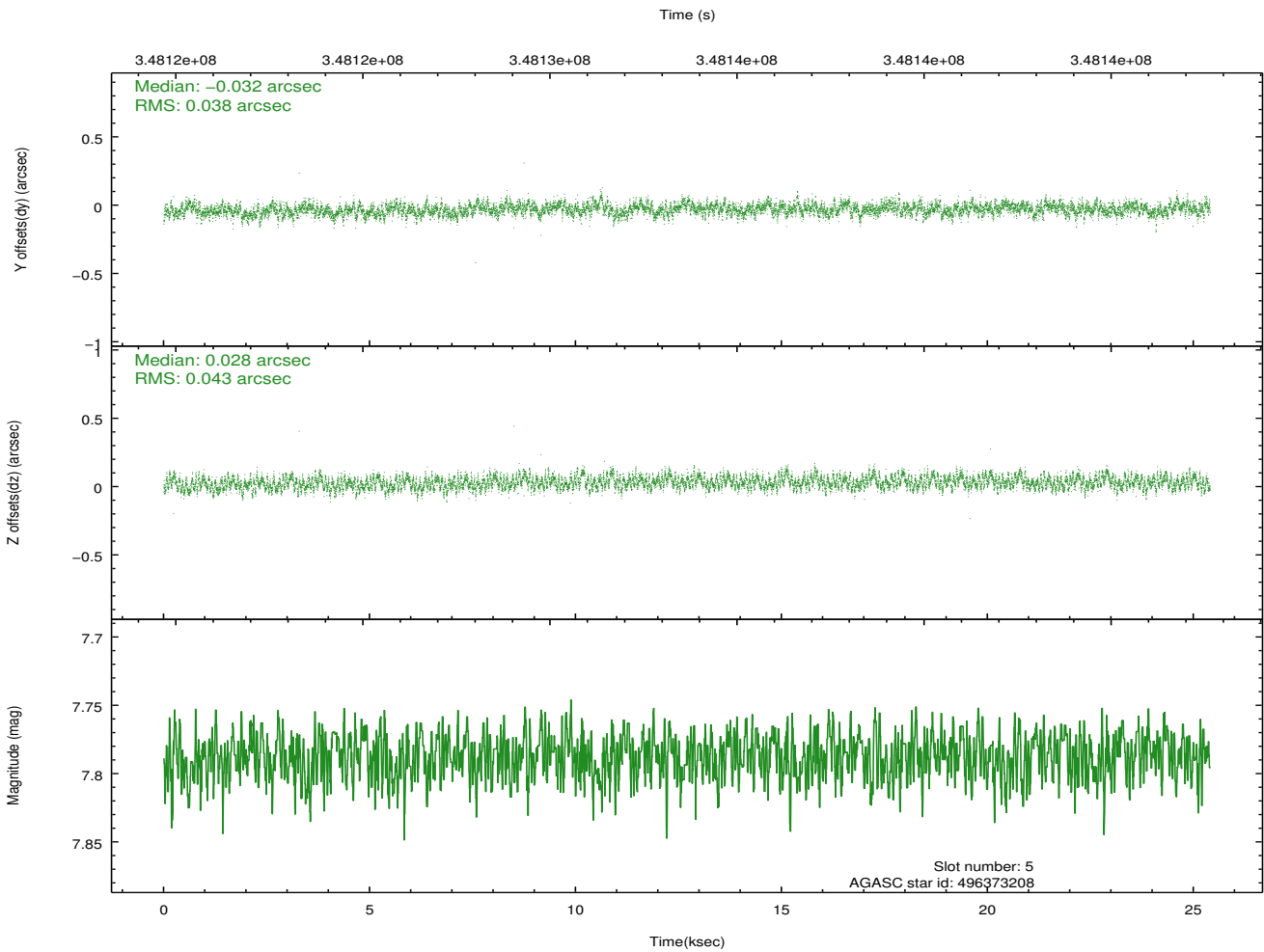
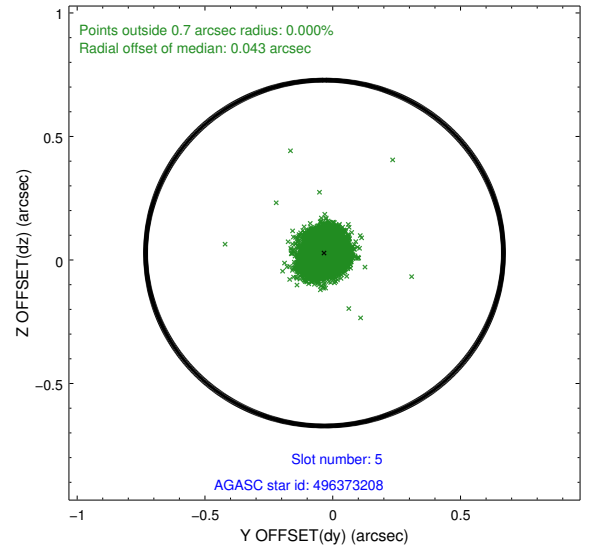
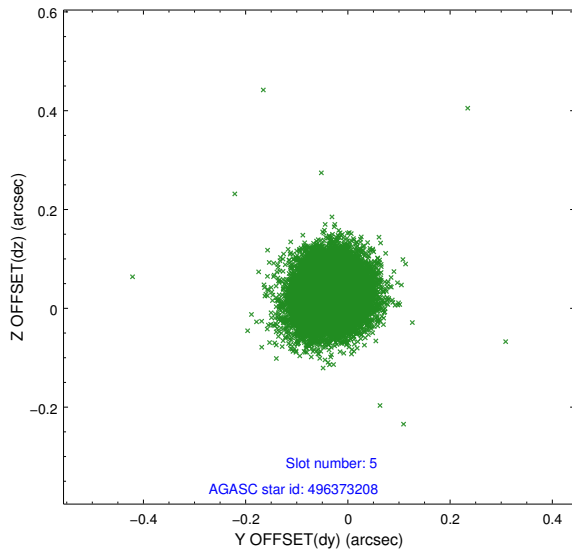
### 2.4.1 Slot 3



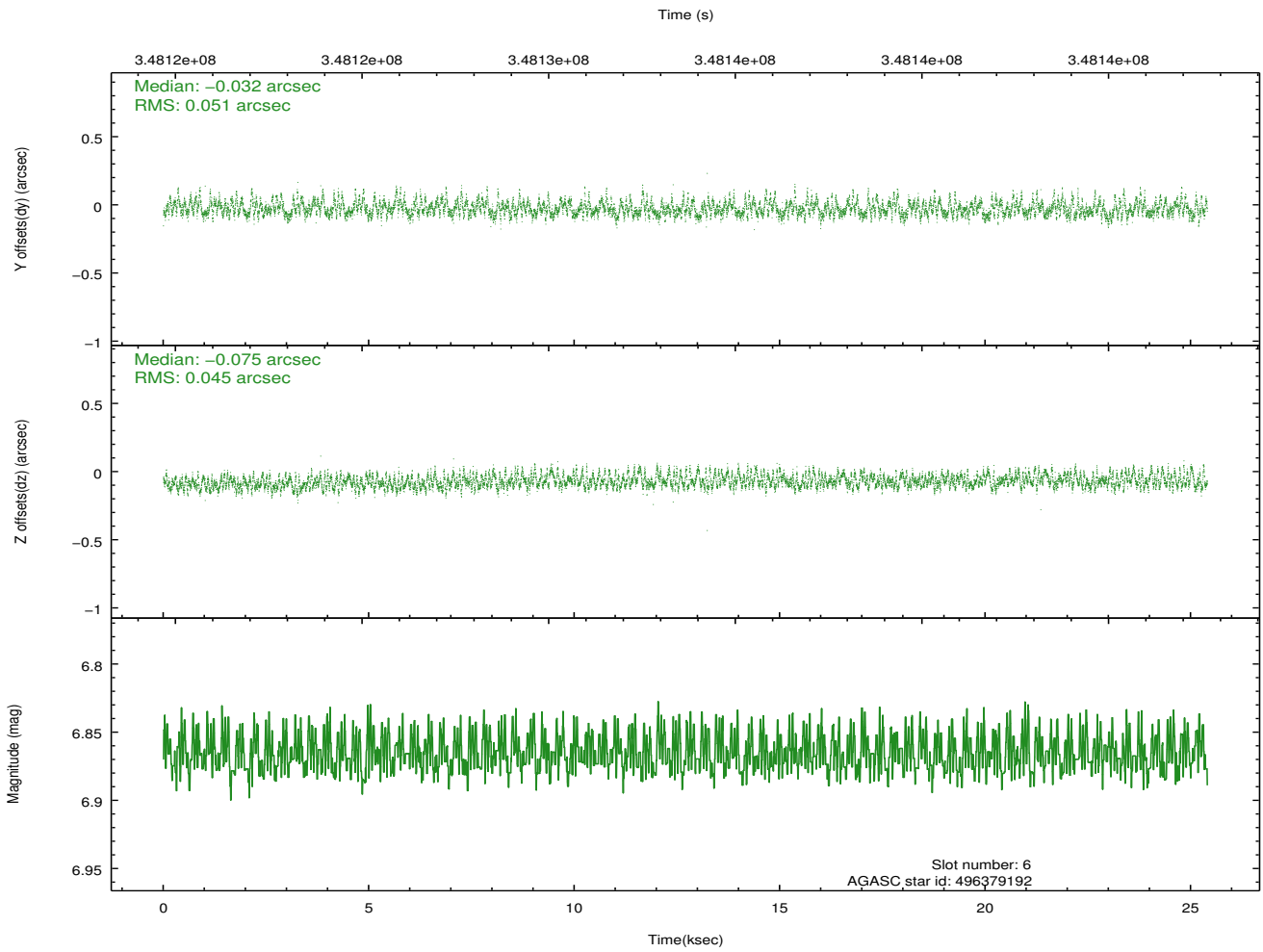
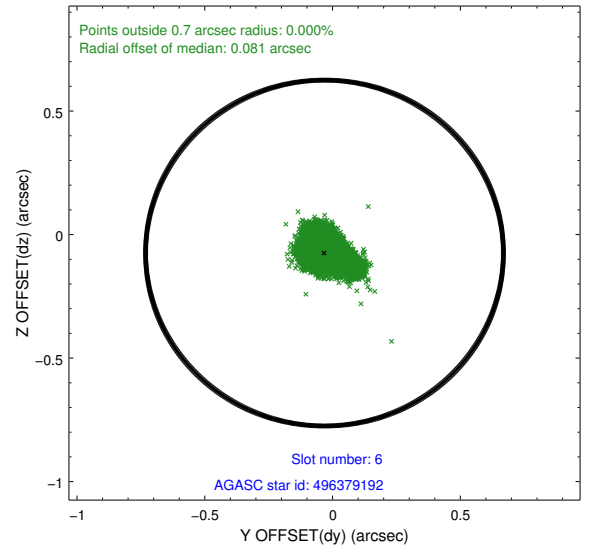
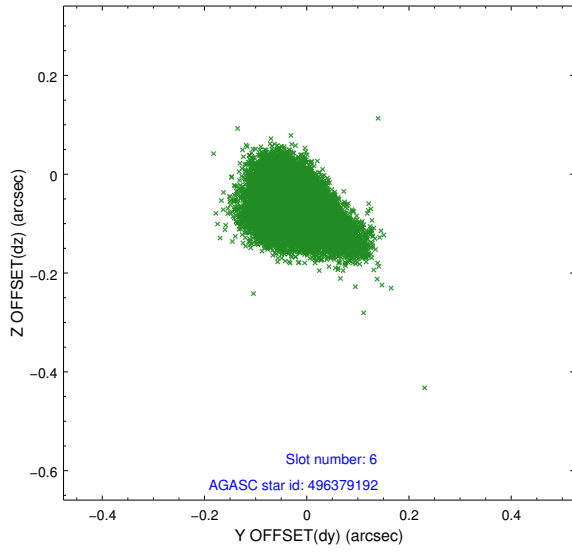
## 2.4.2 Slot 4



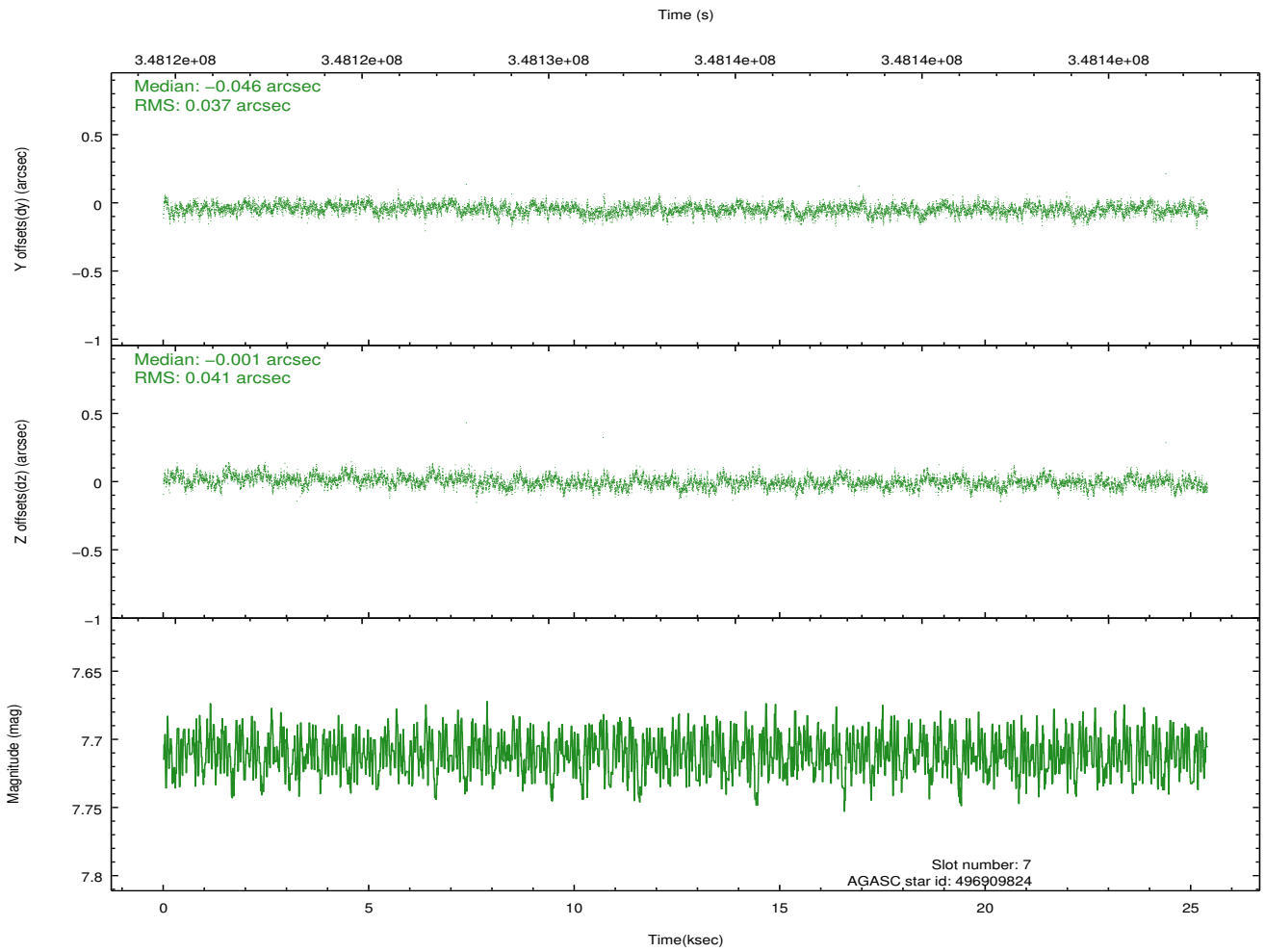
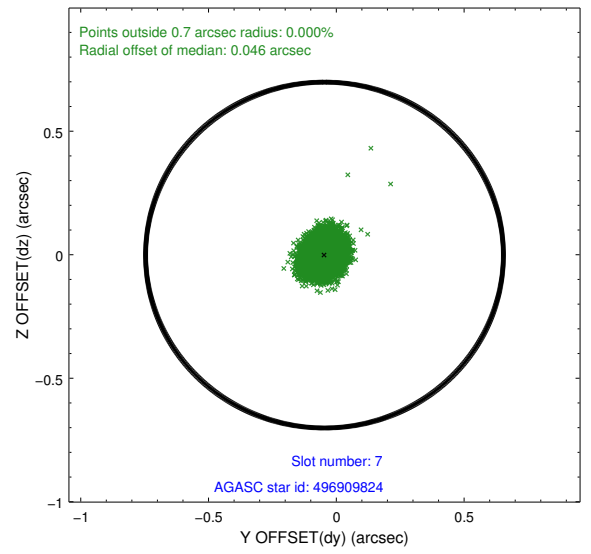
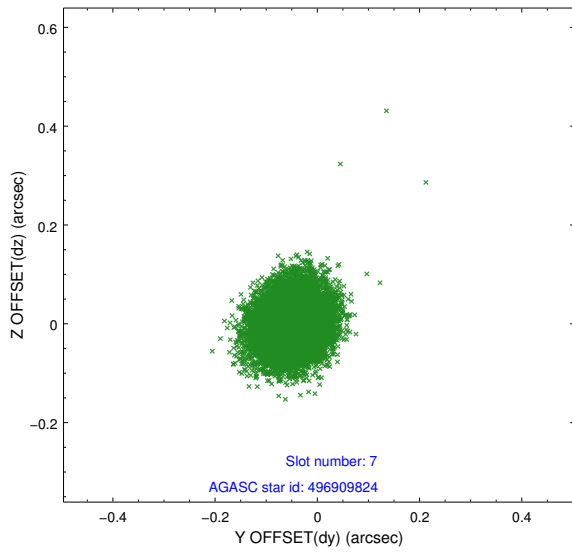
### 2.4.3 Slot 5



## 2.4.4 Slot 6

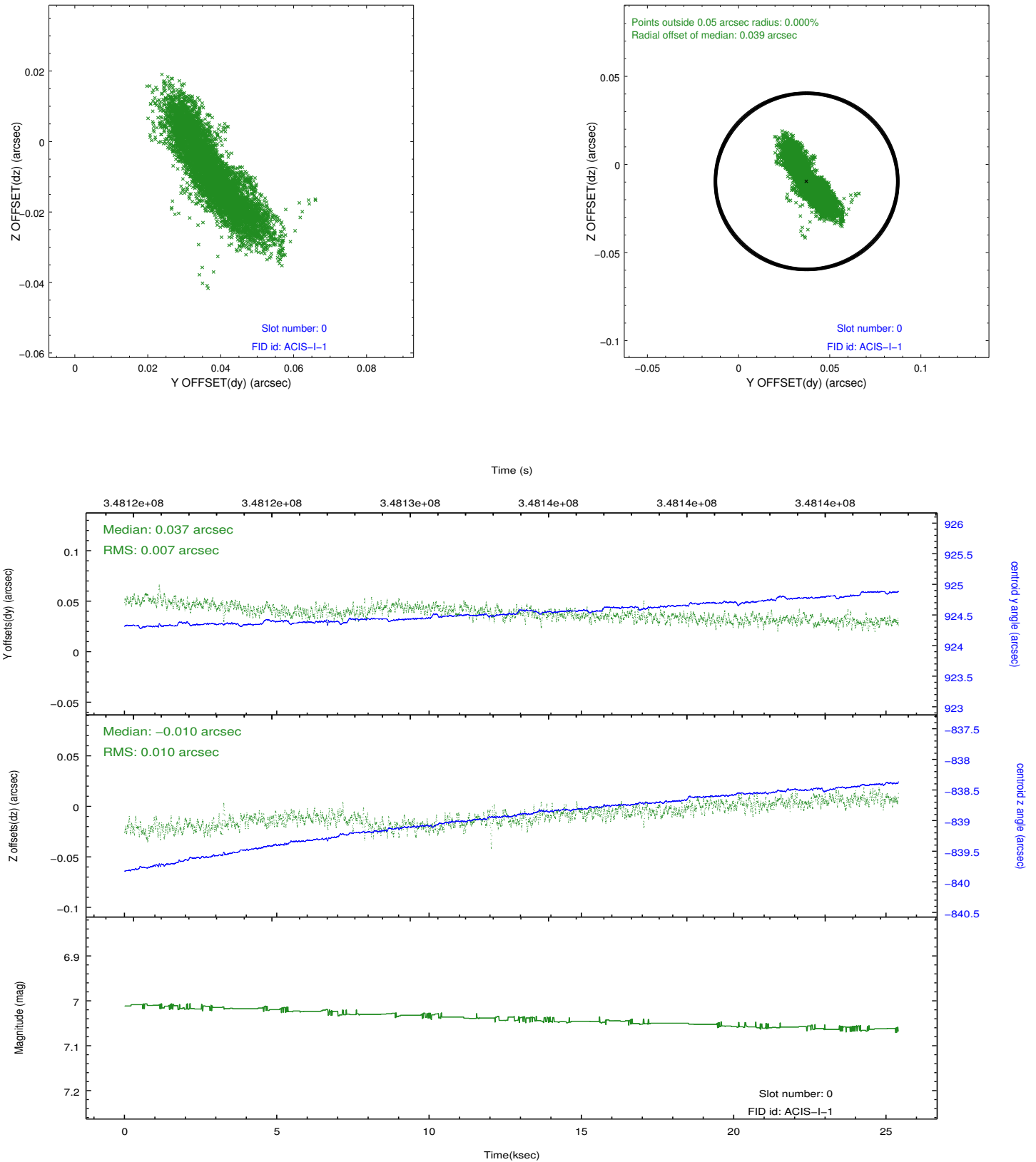


### 2.4.5 Slot 7

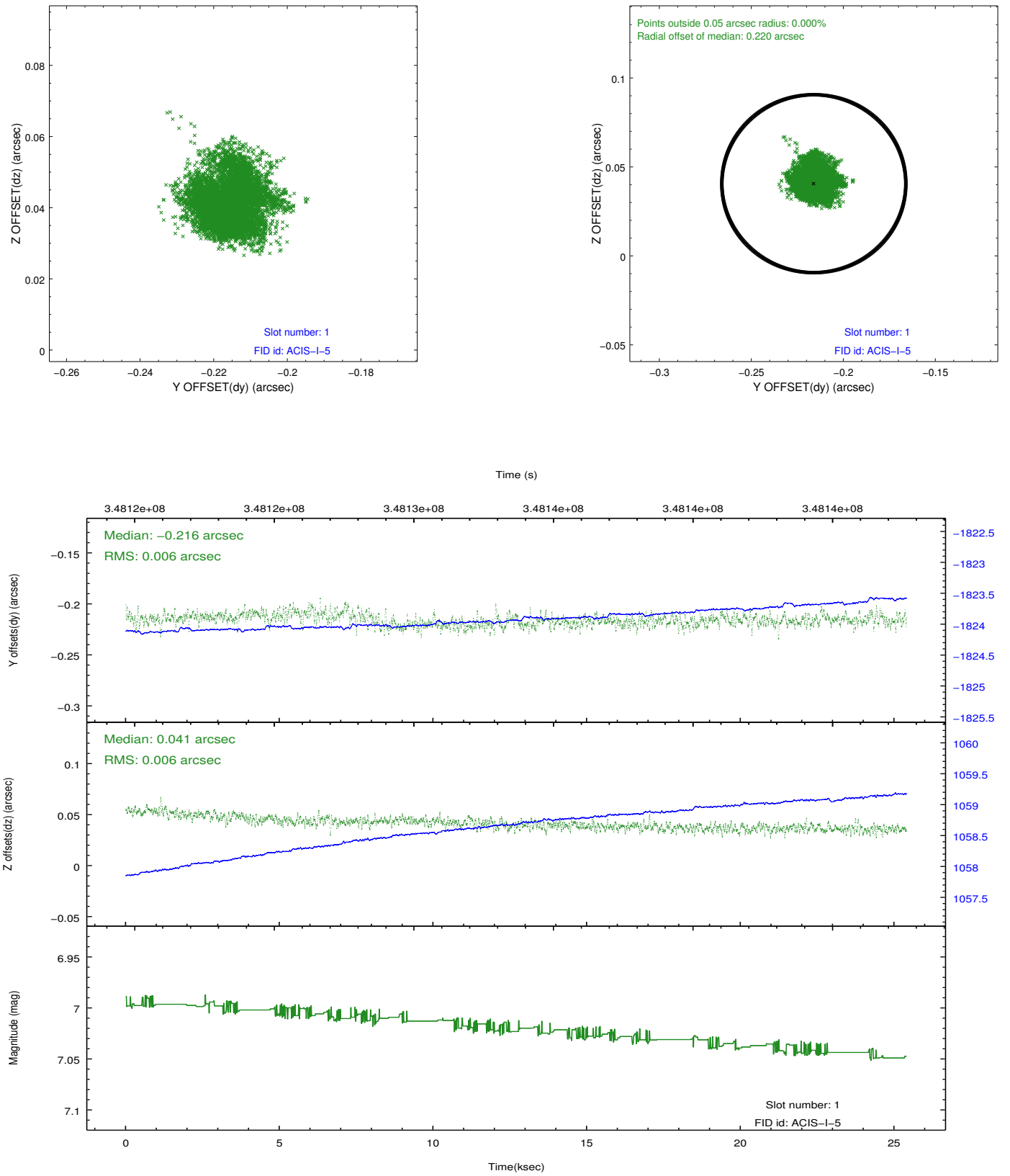


## 2.5 FID Slots

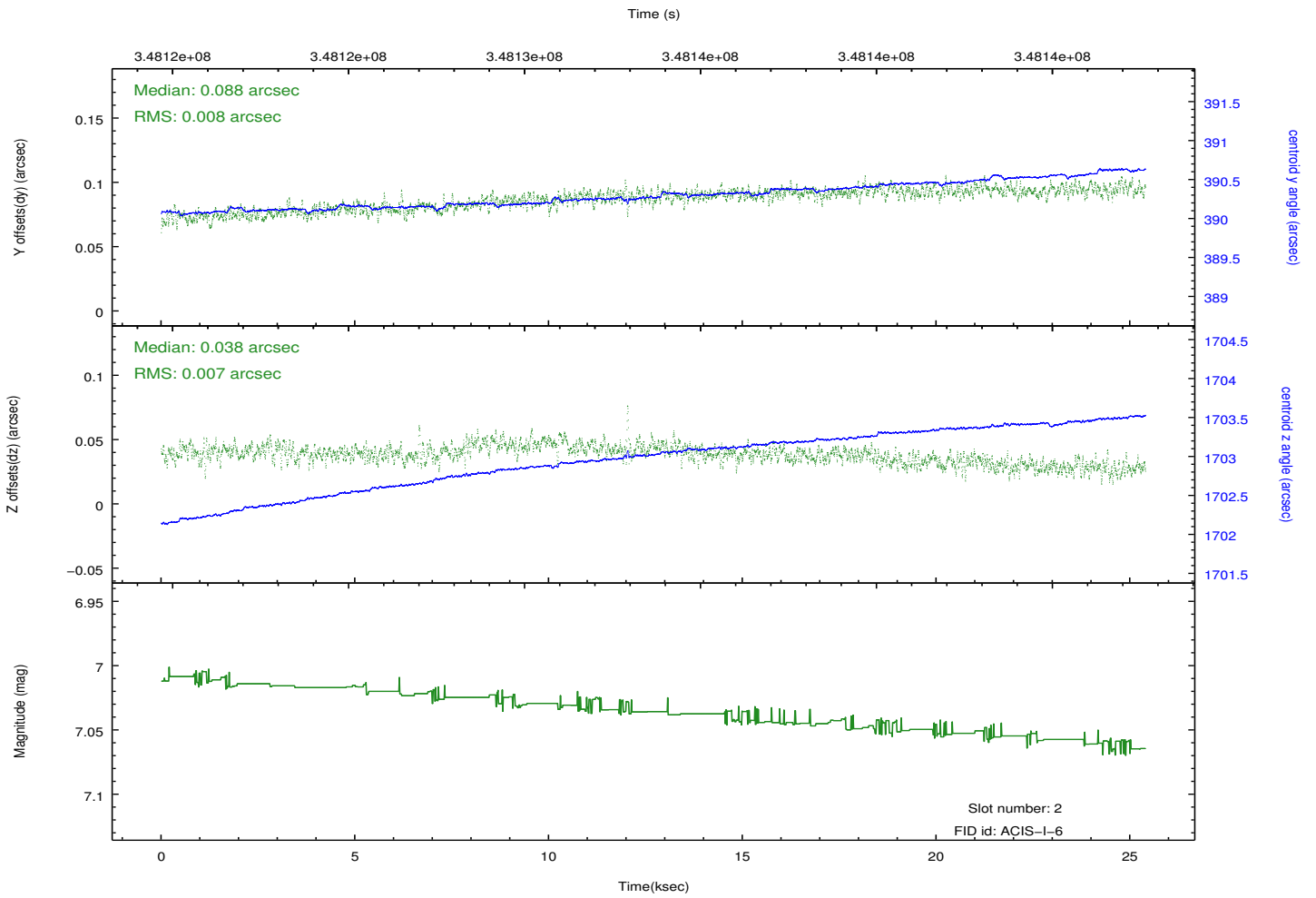
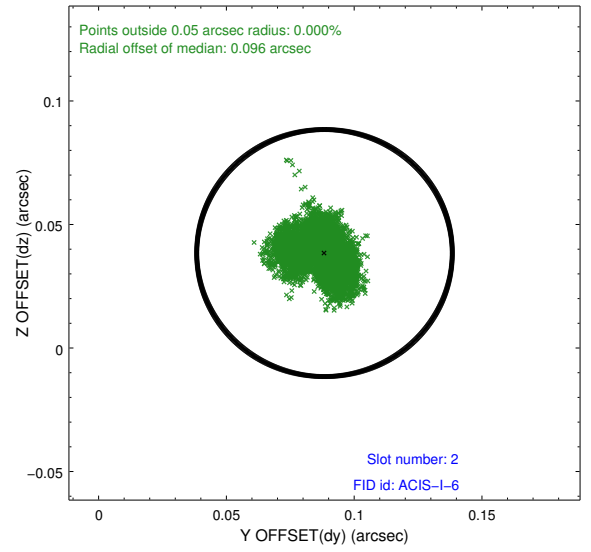
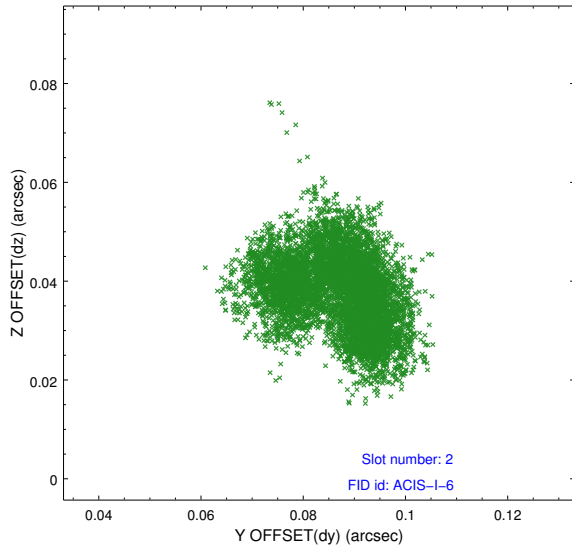
### 2.5.1 Slot 0



## 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)	2012.06.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.4032001

## A.2 Comments

Joint Proposal: HST