

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5372 - L2 Version 3  
Chandra X-Ray Center

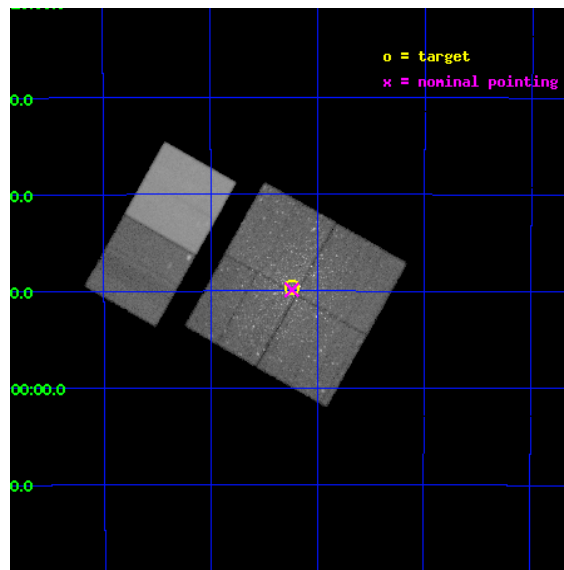
L2 Processing Date : Dec 26 2012

## 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

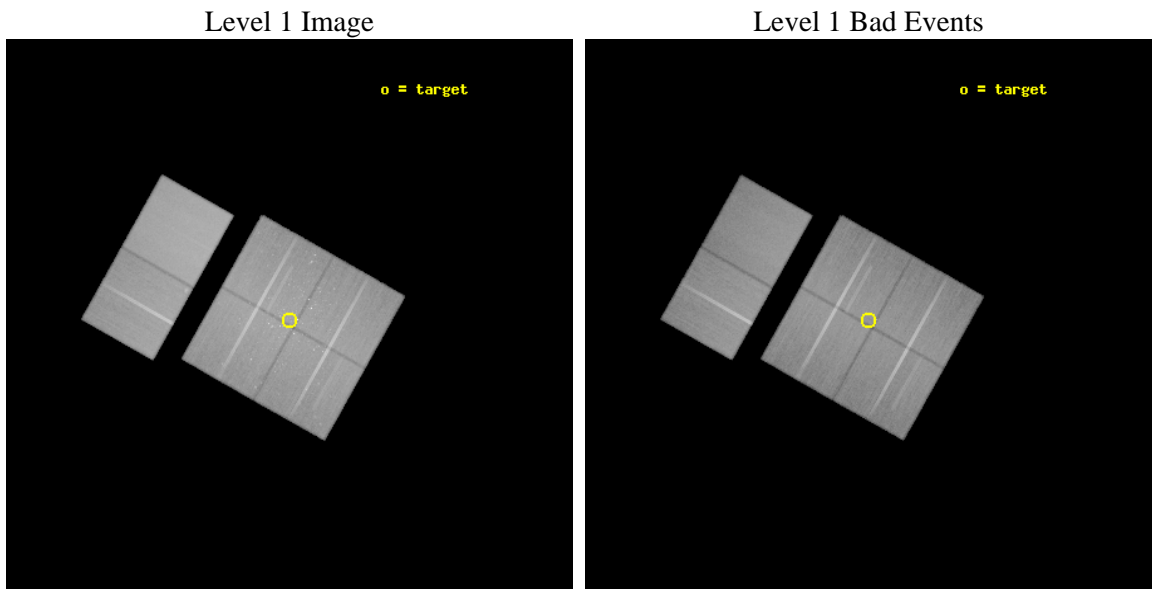
seq_num	200307	Sequence number
obs_id	5372	Observation id
title	Star formation in the young star cluster NGC 6231	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	NGC 6231	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	253.559167	Observer's specified target RA [deg]
dec_targ	-41.826806	Observer's specified target Dec [deg]
ra_nom	253.55988167472	Nominal RA [deg]
dec_nom	-41.831430135841	Nominal Dec [deg]
roll_nom	299.42328564035	Nominal Roll [deg]
revision	3	Processing version of data
ontime	77164.594851077	Sum of GTIs [s]
liveltime	76187.490288131	Livetime [s]
ontime0	77177.558722198	Sum of GTIs [s]
ontime1	77180.799712479	Sum of GTIs [s]
ontime2	77180.799712479	Sum of GTIs [s]
ontime3	77164.594851077	Sum of GTIs [s]
ontime6	77180.799712479	Sum of GTIs [s]
ontime7	77180.799712479	Sum of GTIs [s]
l2events	738701	Number of level 2 events



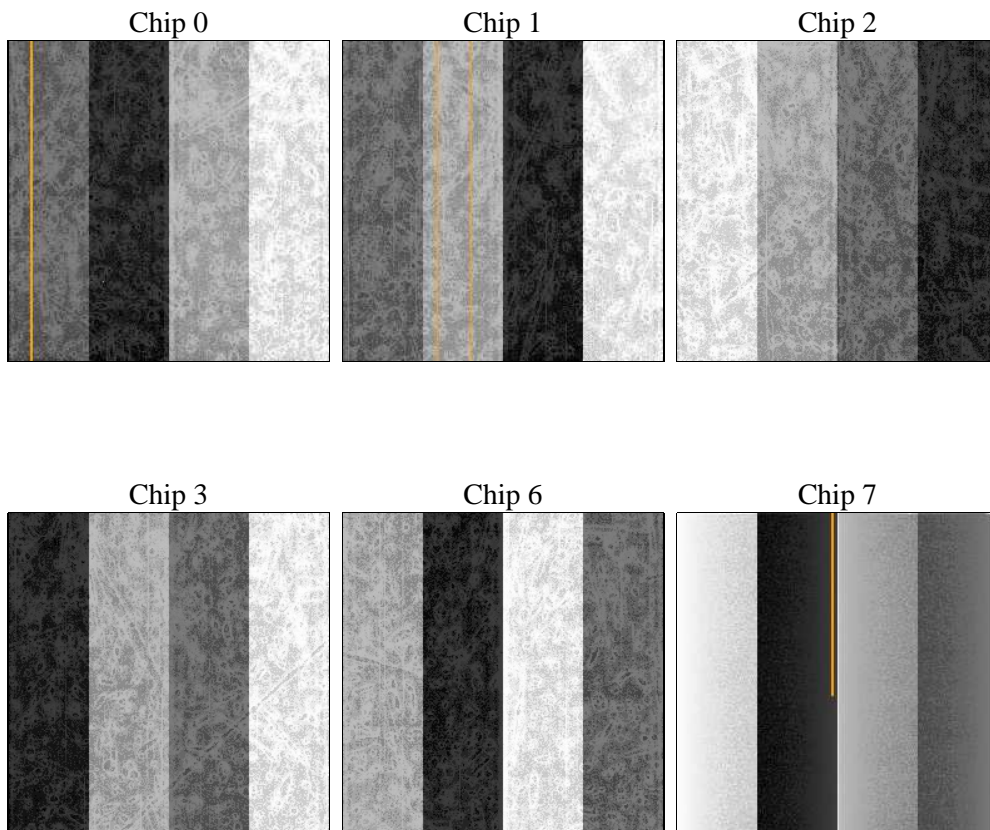
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	77000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	77164.594851077	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime0	77177.558722198	Sum of GTIs [s]
date	2012-12-26T00:47:40	Date and time of file creation	ontime1	77180.799712479	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	77180.799712479	Sum of GTIs [s]
			ontime3	77164.594851077	Sum of GTIs [s]
			ontime6	77180.799712479	Sum of GTIs [s]
			ontime7	77180.799712479	Sum of GTIs [s]
			l1events	3877645	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	581645	582381	631037	621678	631487	829417	grade 0 events	47348	45594	51883	55762	30691	31170
rejected events	489097	487711	536085	520911	556124	486129		8%	7%	8%	8%	4%	3%
rejected %	84%	83%	84%	83%	88%	58%	grade 1 events	444	412	472	723	366	859
								0%	0%	0%	0%	0%	0%
							grade 2 events	17402	18386	16525	16517	15988	68526
								2%	3%	2%	2%	2%	8%
							grade 3 events	7729	7876	7336	7864	6937	30731
								1%	1%	1%	1%	1%	3%
							grade 4 events	7180	7968	7323	7778	7029	30183
								1%	1%	1%	1%	1%	3%
							grade 5 events	25045	26210	23774	27746	29312	79156
								4%	4%	3%	4%	4%	9%
							grade 6 events	13084	15017	12073	13029	14885	183373
								2%	2%	1%	2%	2%	22%
							grade 7 events	463413	460918	511651	492259	526279	405419
								79%	79%	81%	79%	83%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	253.528160	253.5598816747245	Subarray requested	NONE	NONE
[deg] Pointing Dec	-41.817582	-41.83143013584091	Alternating exposures requested	N	N
[deg] Pointing Roll	299.193440	299.4232856403458	[s] Primary exposure time	0.000000	3.2
[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)	236759798.184000	236758650.7809			
Observation start date	2005-07-03T06:35:34	2005-07-03T06:17:30			
[s] Observation end time (MET)	236836798.184000	236837539.90951			
Observation end date	2005-07-04T03:58:54	2005-07-04T04:12:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect

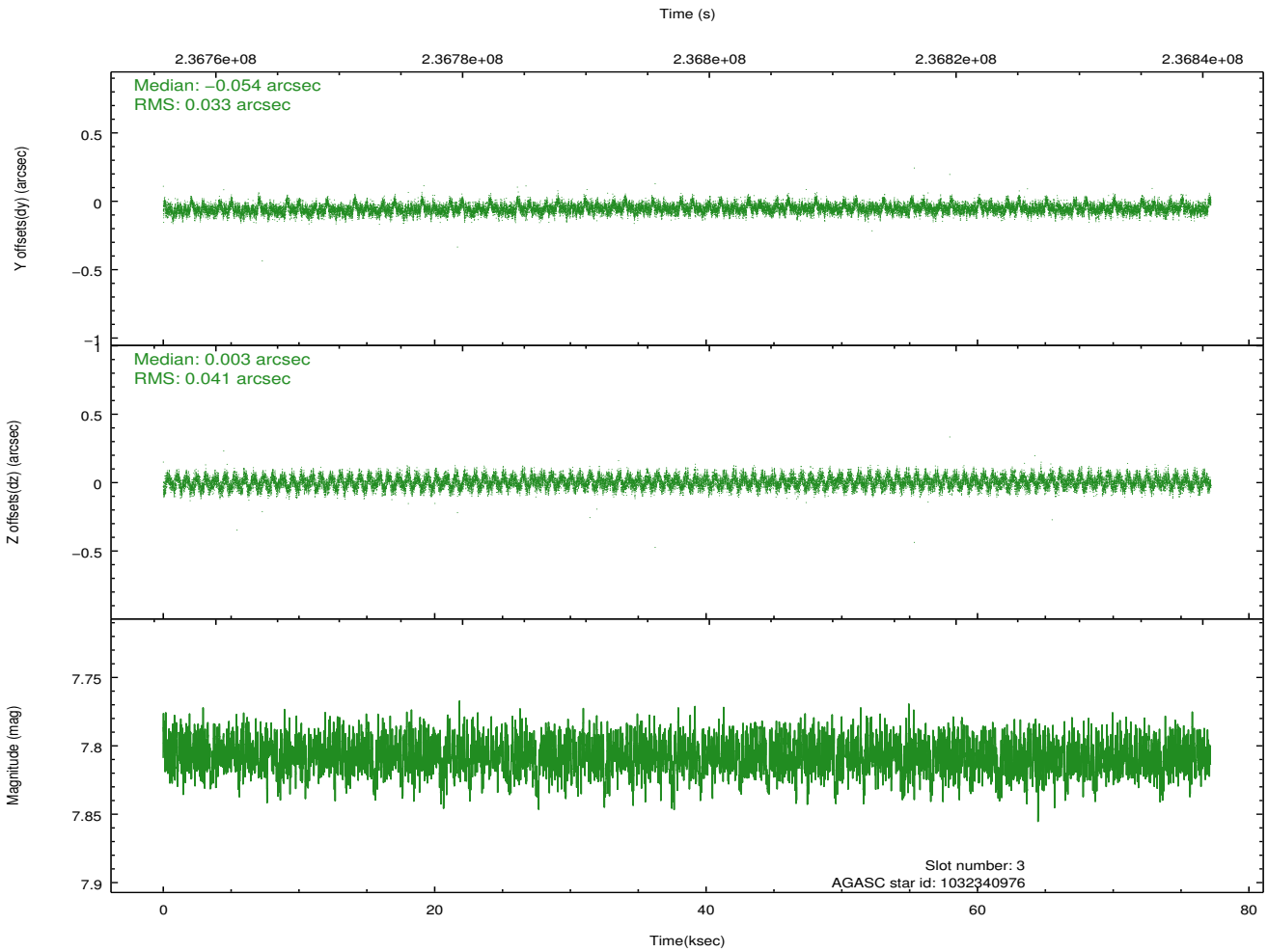
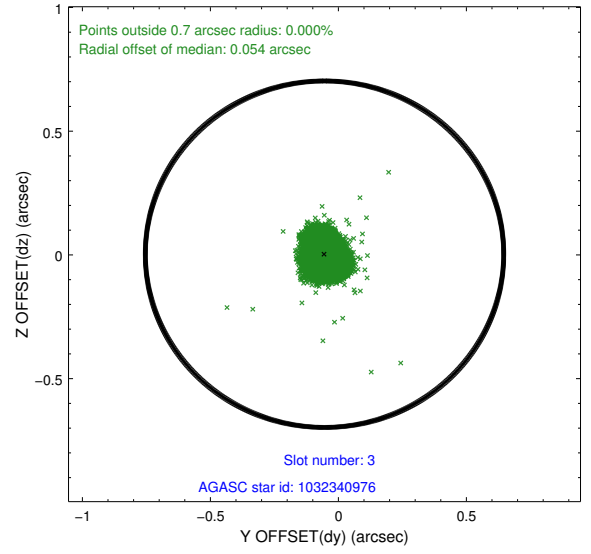
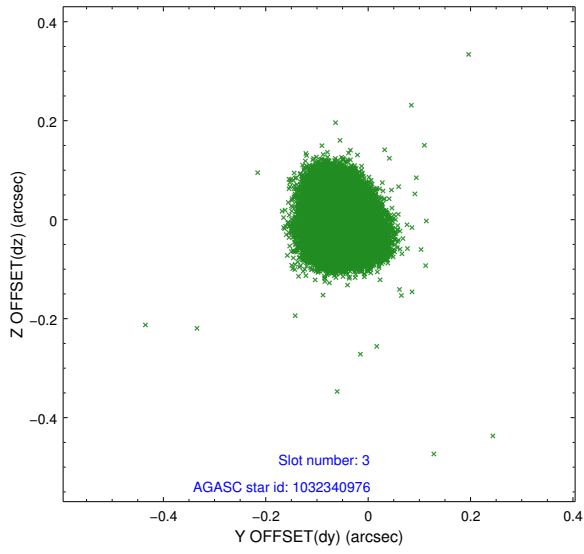


### Slot Statistics

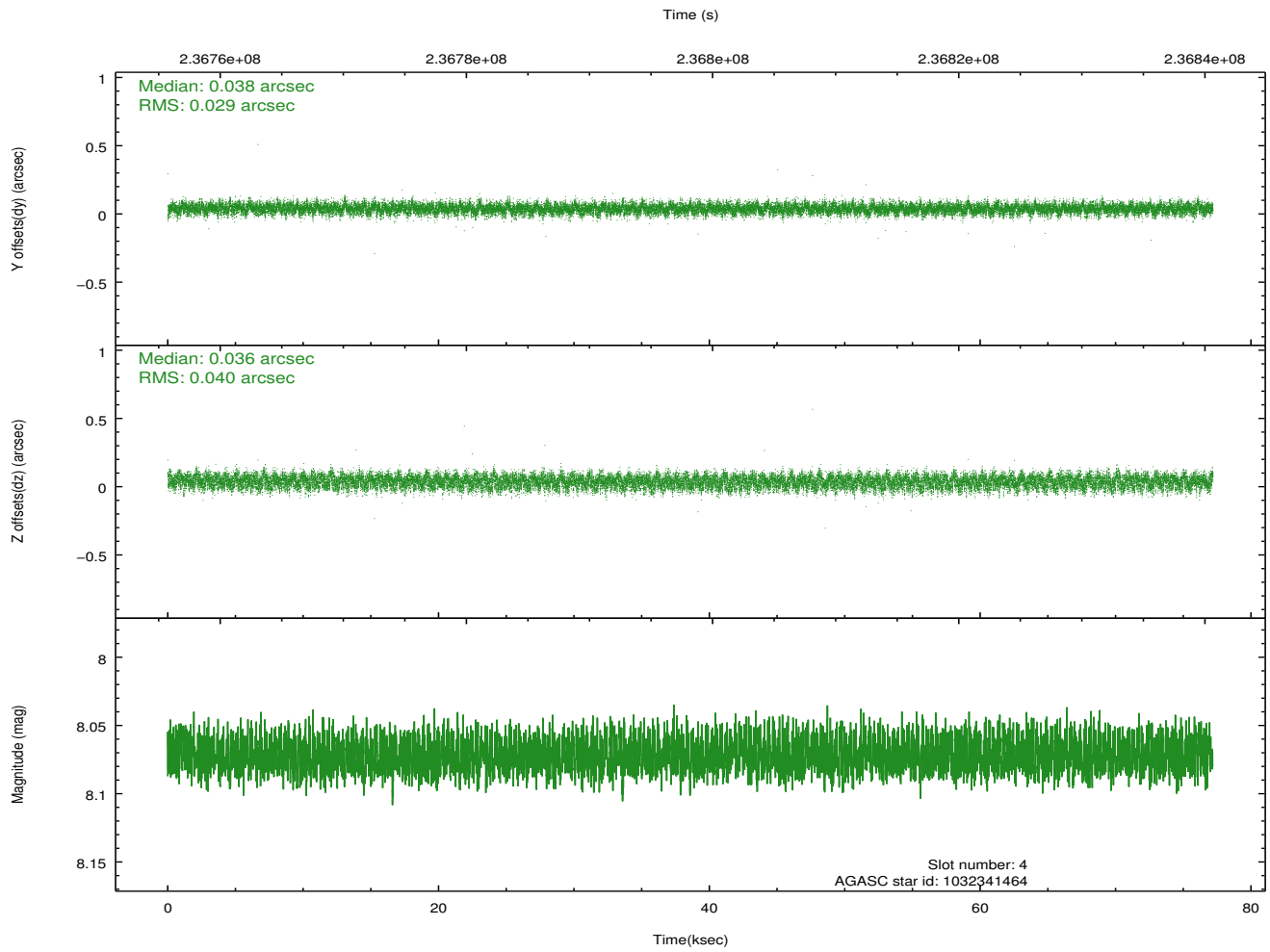
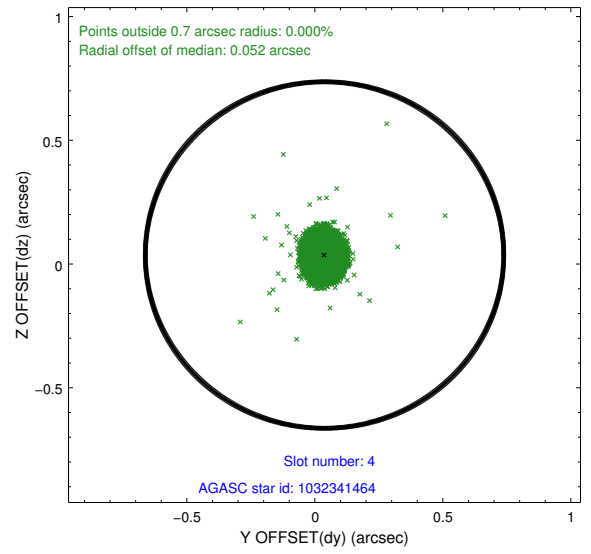
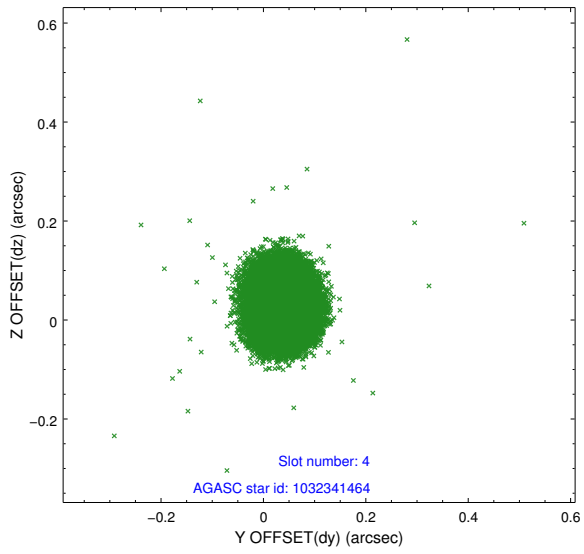
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	18828	-0.026	0.046	0.014	0.051	0.000000	0.000000	933.13	-832.76
1	FID	ACIS-I-4	7.19	18826	0.132	0.005	0.019	0.056	0.000000	0.000000	2153.29	1067.04
2	FID	ACIS-I-5	7.22	18827	-0.201	0.020	0.018	0.039	0.000000	0.000000	-1815.13	1064.84
3	GUIDE	1032340976	7.81	37646	-0.054	0.003	0.056	0.090	254.202894	-41.913283	1188.63	1406.81
4	GUIDE	1032341464	8.07	37634	0.038	0.036	0.053	0.083	252.786853	-41.567991	-1750.37	-1308.85
5	GUIDE	1032343488	6.96	37653	-0.043	-0.042	0.047	0.073	252.725884	-41.830381	-1000.35	-1906.05
6	GUIDE	1032344344	6.60	37655	0.070	-0.079	0.059	0.094	253.080192	-41.854515	-466.72	-1114.92
7	GUIDE	1031810224	8.10	37648	-0.024	0.078	0.084	0.138	253.873086	-40.978796	-2177.31	2290.30

## 2.4 Star Slots

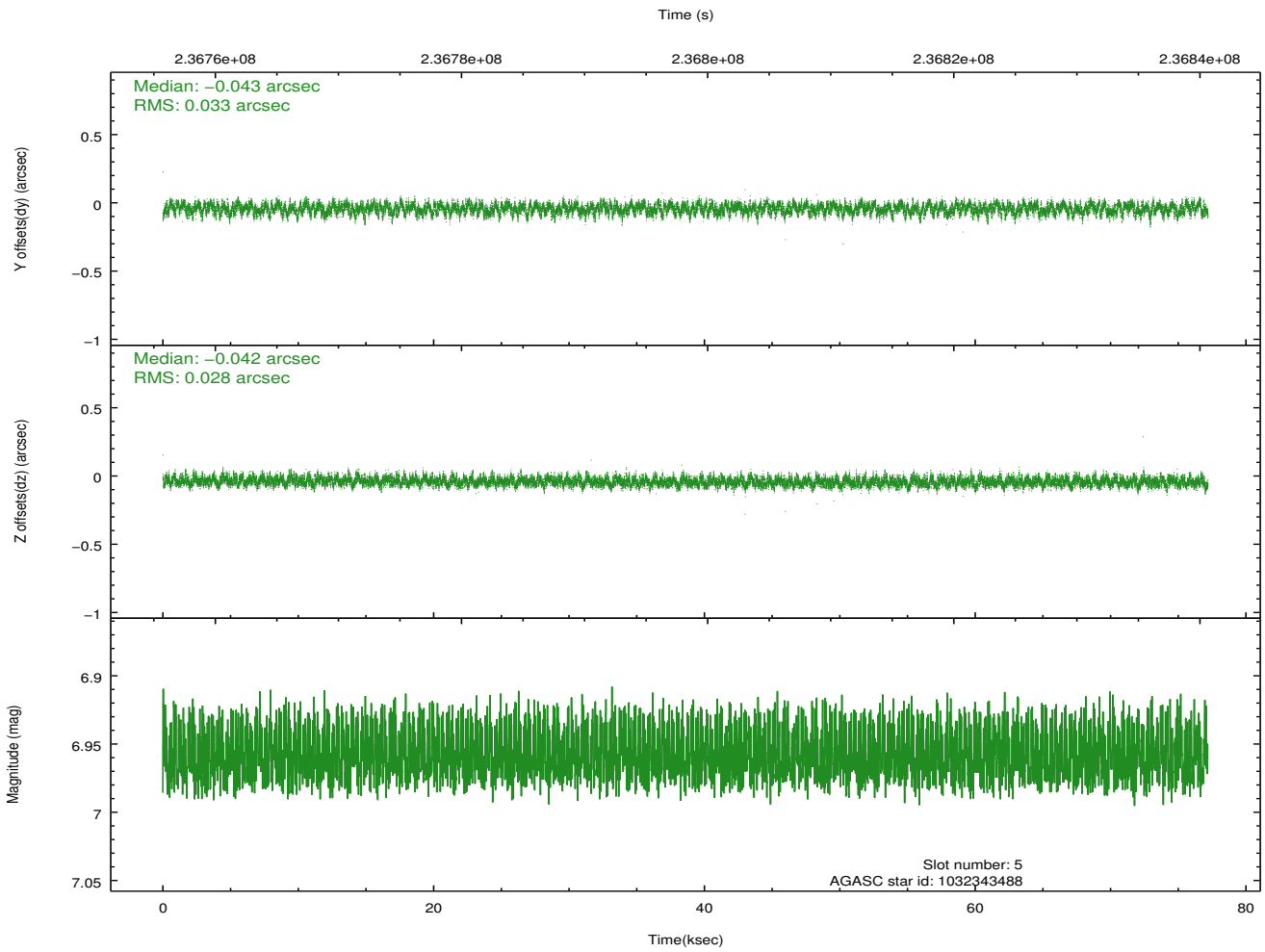
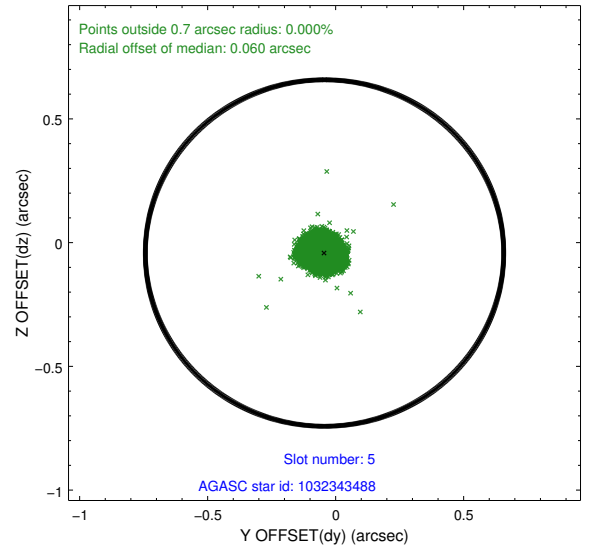
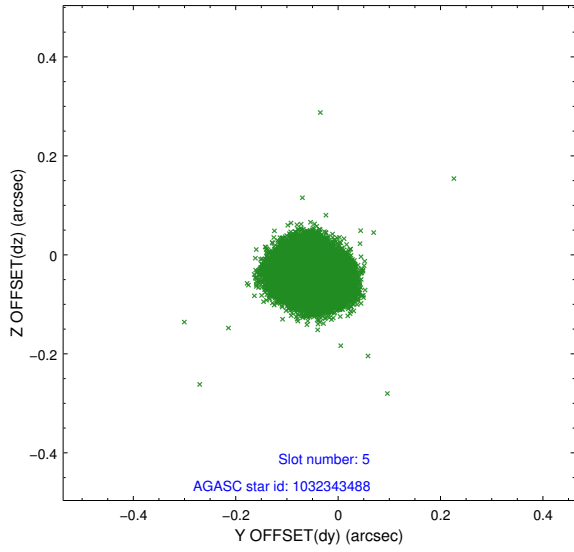
### 2.4.1 Slot 3



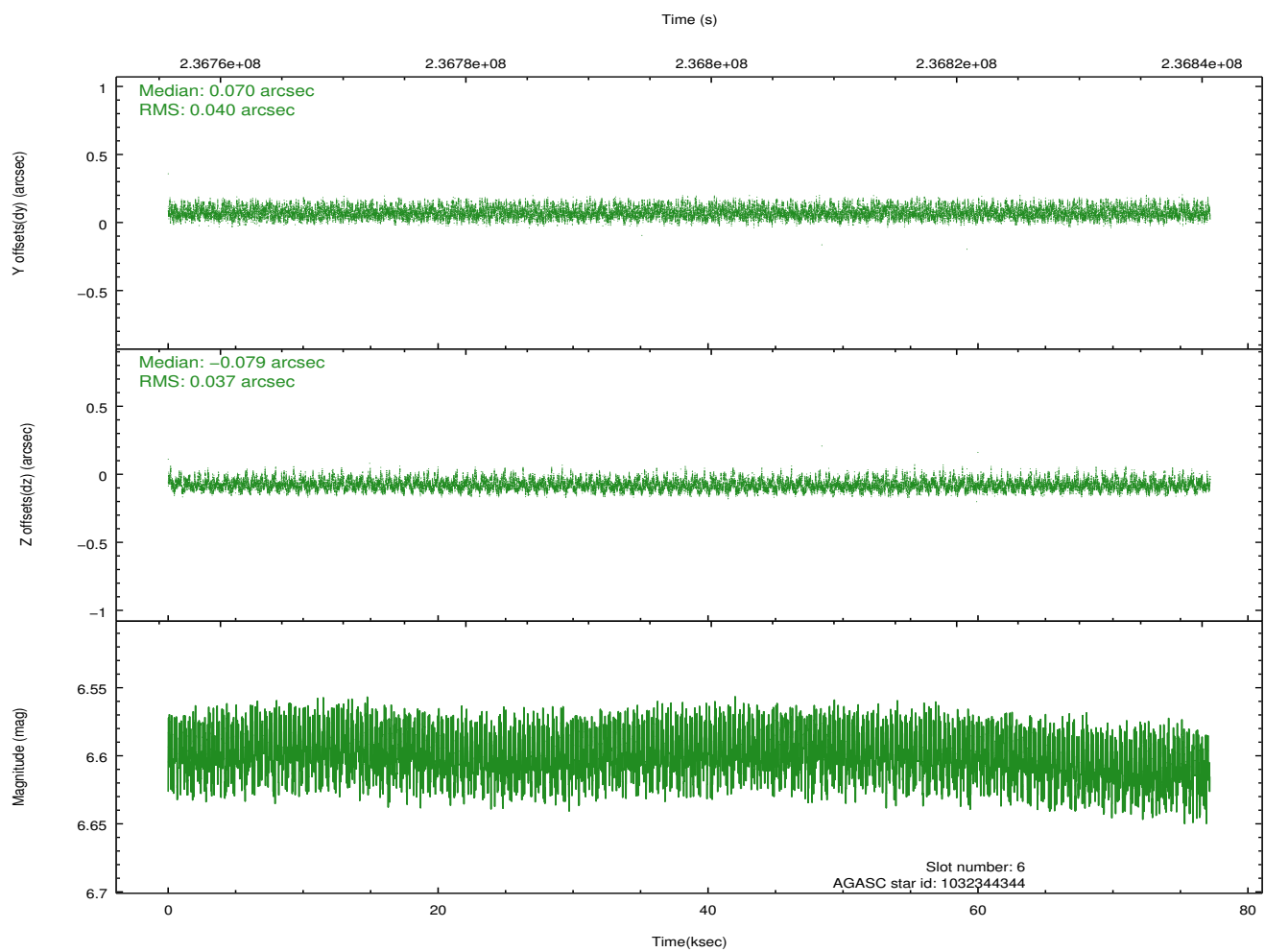
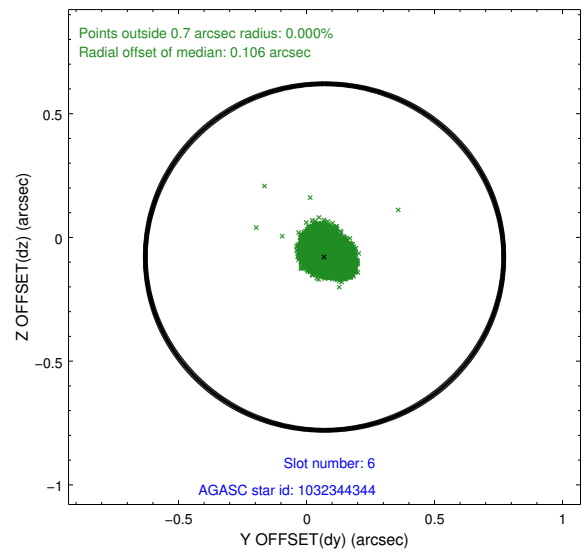
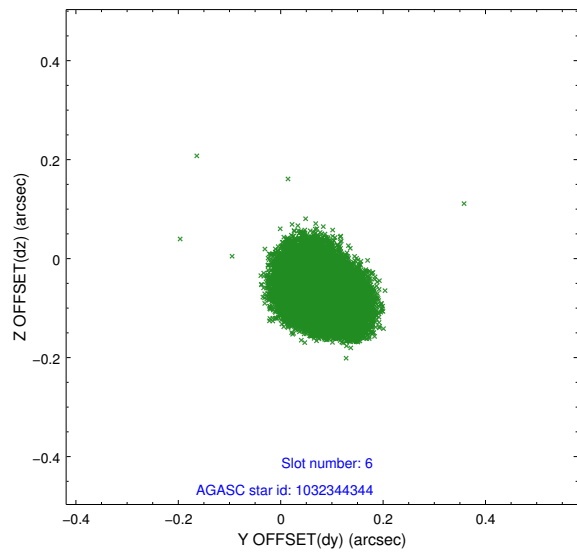
### 2.4.2 Slot 4



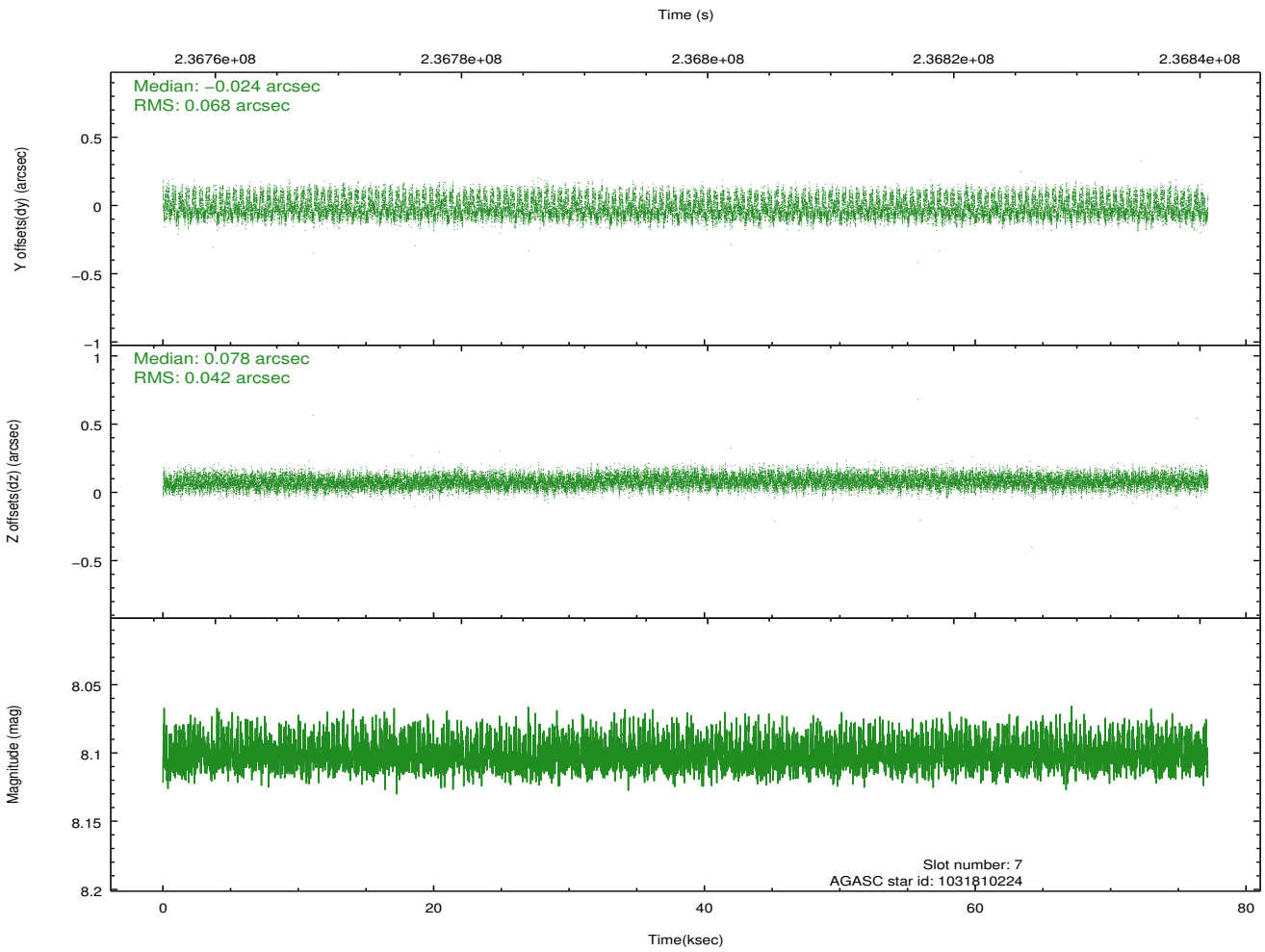
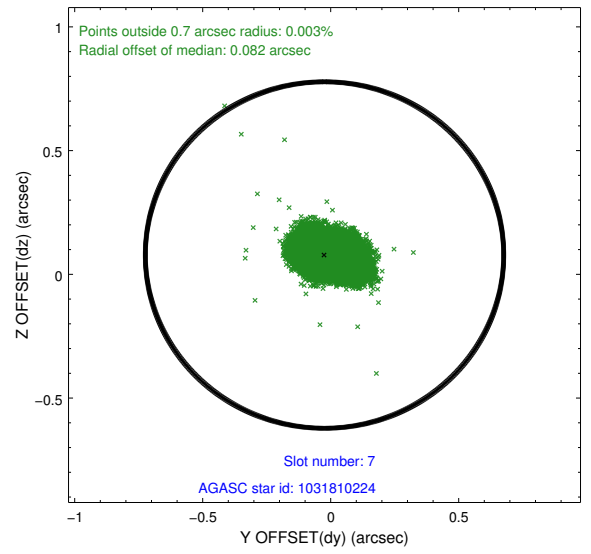
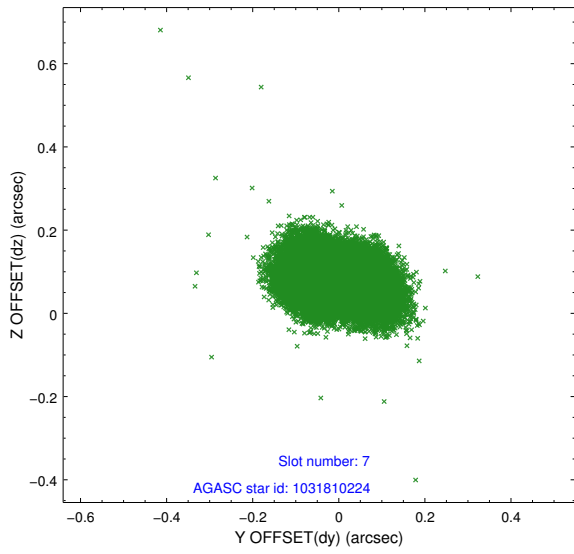
### 2.4.3 Slot 5



## 2.4.4 Slot 6

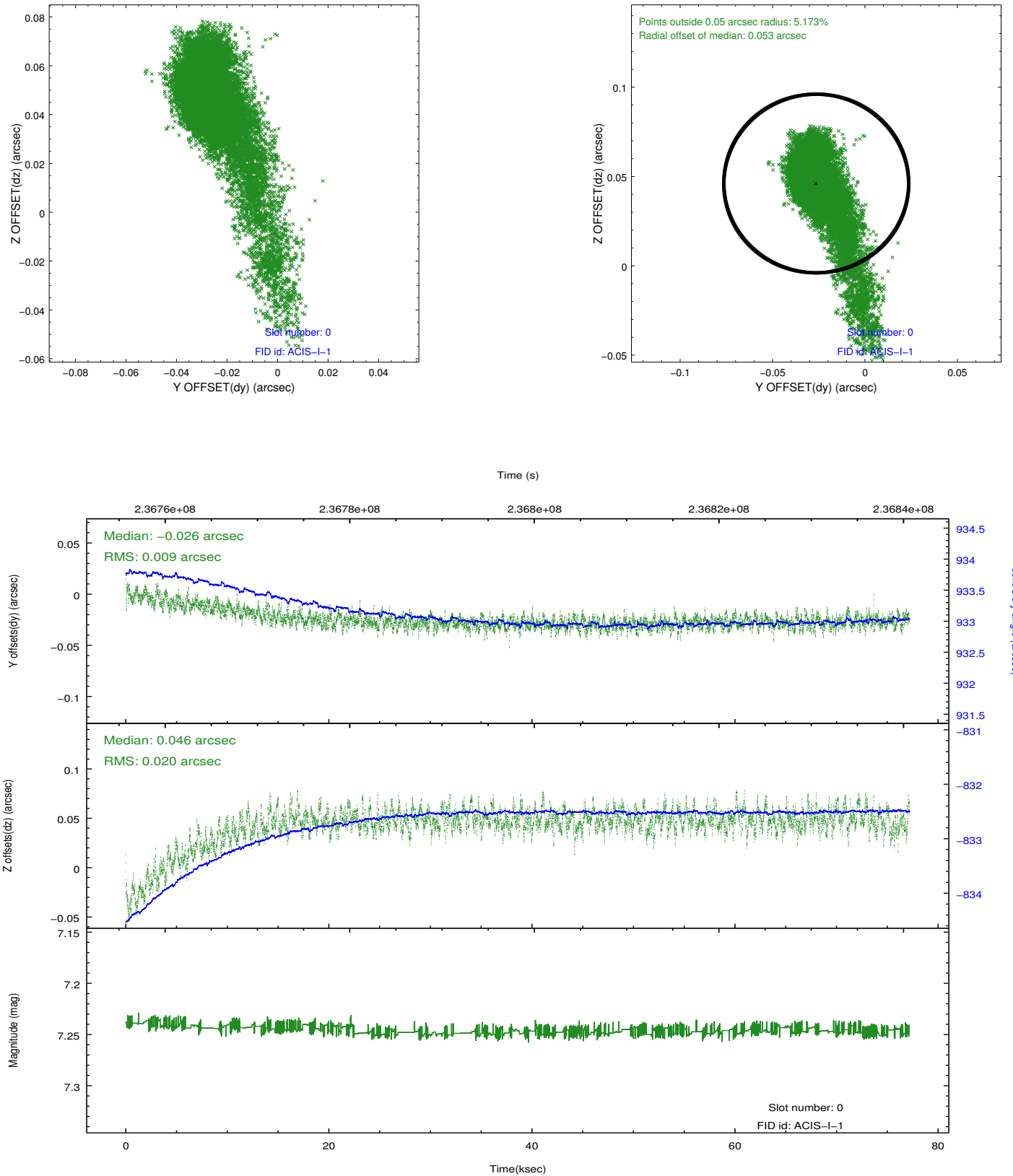


### 2.4.5 Slot 7

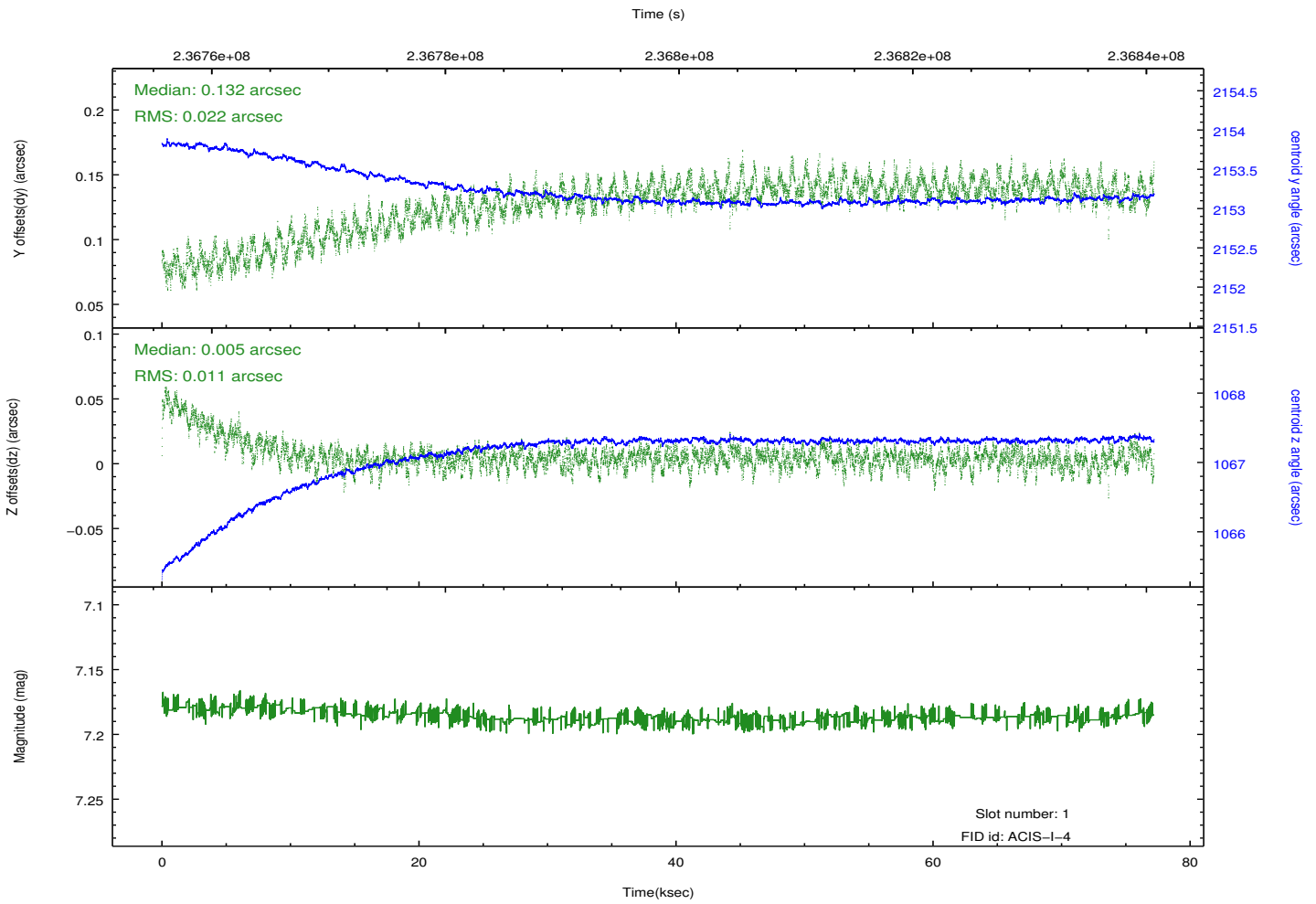
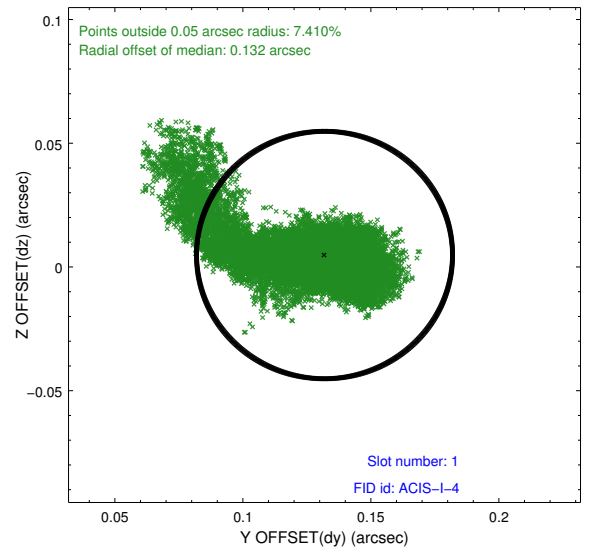
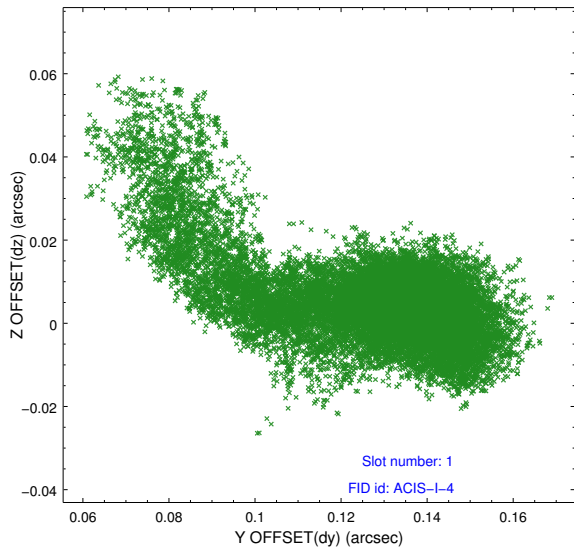


## 2.5 FID Slots

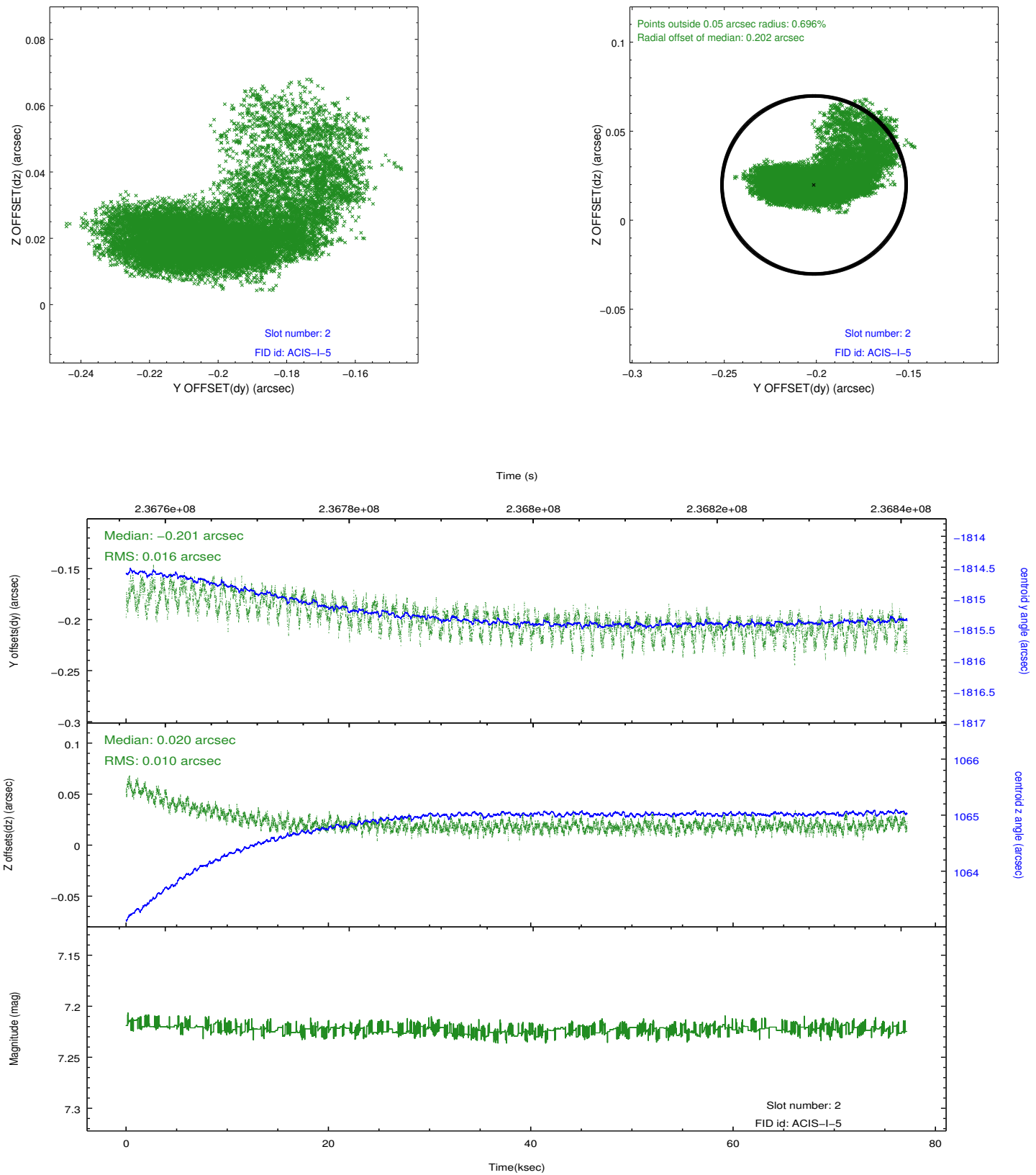
### 2.5.1 Slot 0



## 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)	2013.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	77.16459

## A.2 Comments