

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 4275 - L2 Version 001  
Chandra X-Ray Center

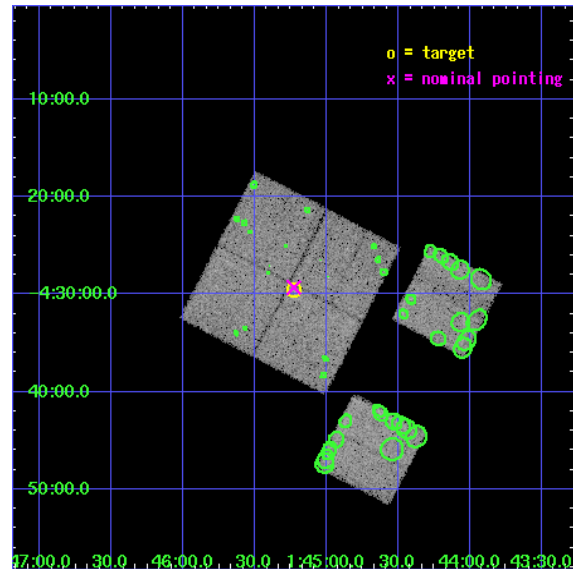
L2 Processing Date : Aug 6 2006

## 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>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

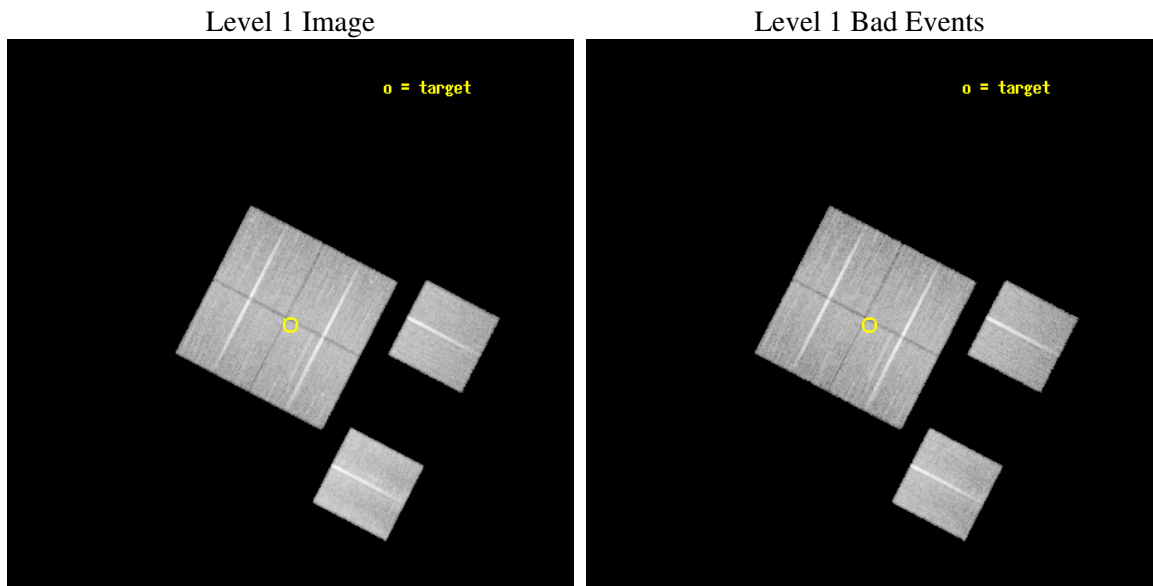
seq_num	900318
obs_id	4275
title	A CHANDRA/XMM ATTACK ON THE ASTROPHYSICS OF THE HARD X-RAY BACKGROUND.
observer	Prof Ian McHardy
object	XMM 1HR - FIELD 4
dtcycle	0
cycle	P
ra_targ	26.307425
dec_targ	-4.49298
ra_nom	26.307058090354
dec_nom	-4.4883638443049
roll_nom	117.40863415239
revision	2
ontime	30111.999887824
livetime	29730.703613975
ontime0	30111.999887824
ontime1	30102.2770468
ontime2	30111.999887824
ontime3	30111.999887824
ontime6	30108.75891754
ontime8	30111.999887824
l2events	115762



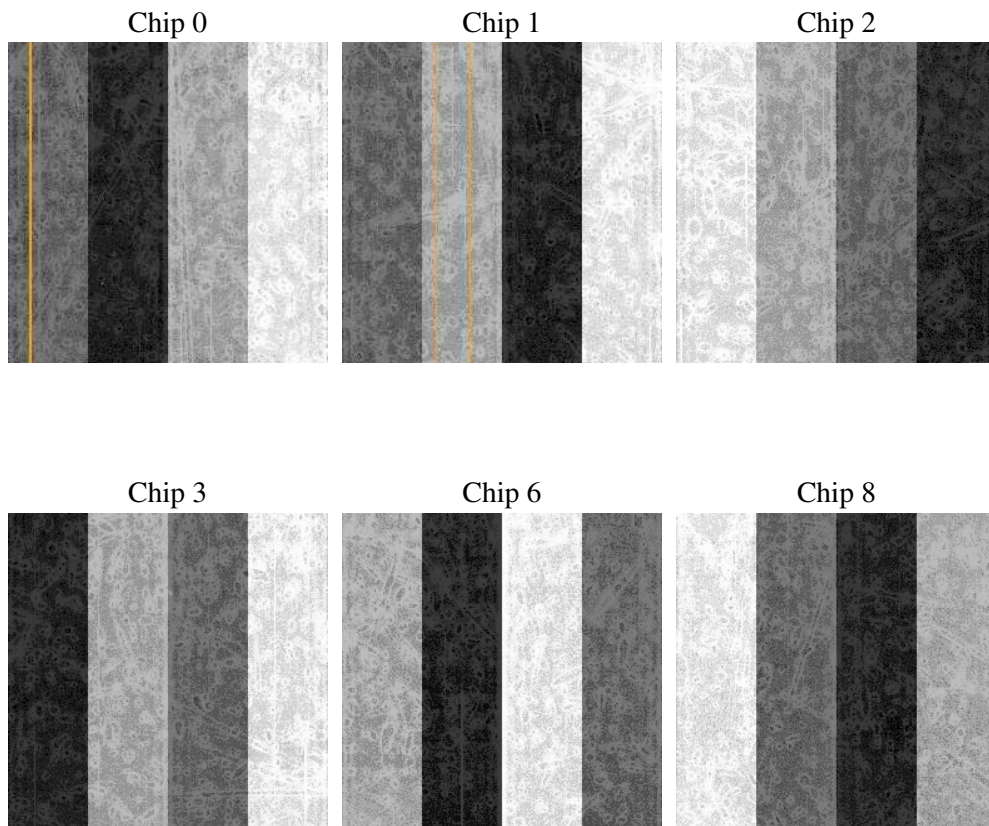
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2
ascdsver	7.6.8.1
caldsver	3.2.2
date	2006-08-06T22:30:31
revision	2

sched_exp_time	30000.000000
ontime	30232.048273683
ontime0	30235.289293796
ontime1	30225.56647265
ontime2	30232.048303604
ontime3	30232.048273683
ontime6	30232.04834339
ontime8	30232.048403263
l1events	1107726

### 2.1.4 Events

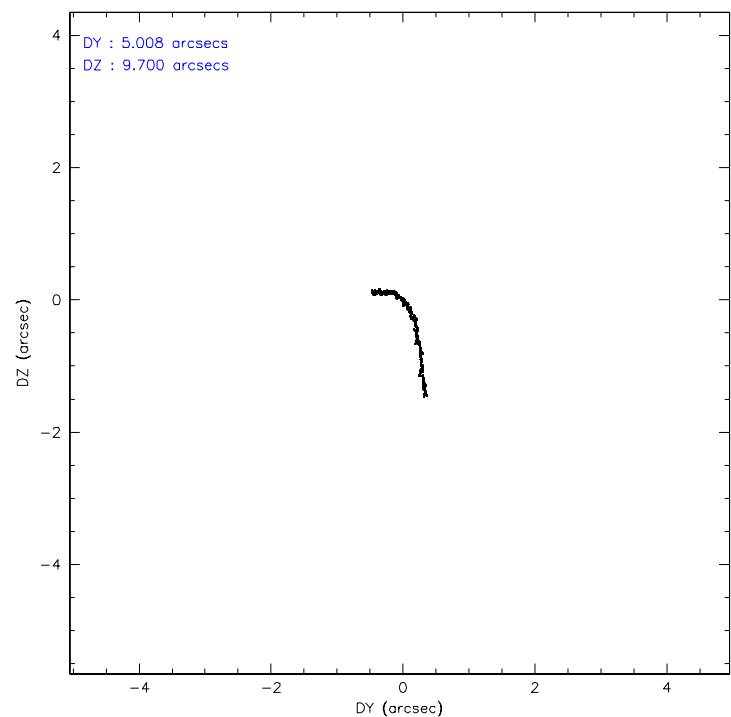
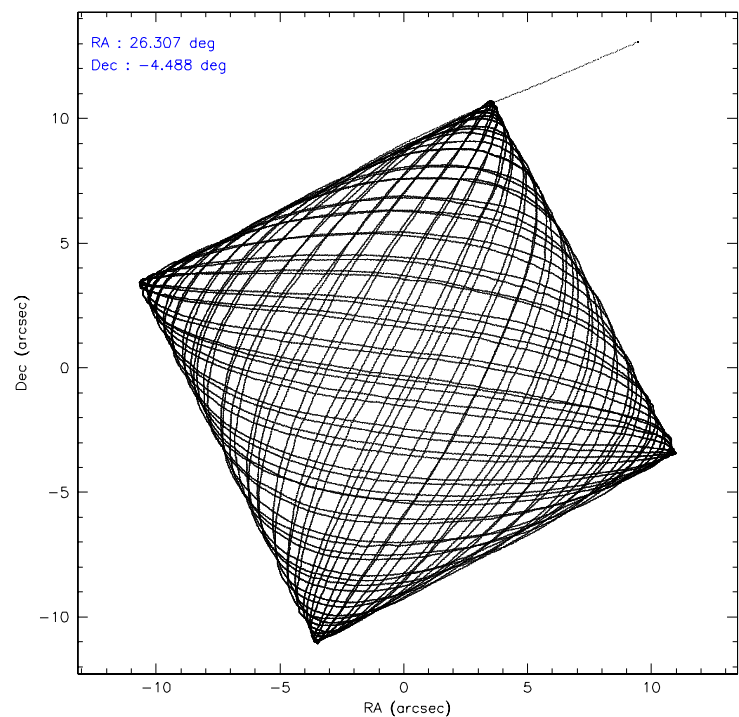
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 8
level 1 events	165912	167895	179697	179222	179761	235239
rejected events	144070	144706	158352	157891	158429	187817
rejected %	86%	86%	88%	88%	88%	79%

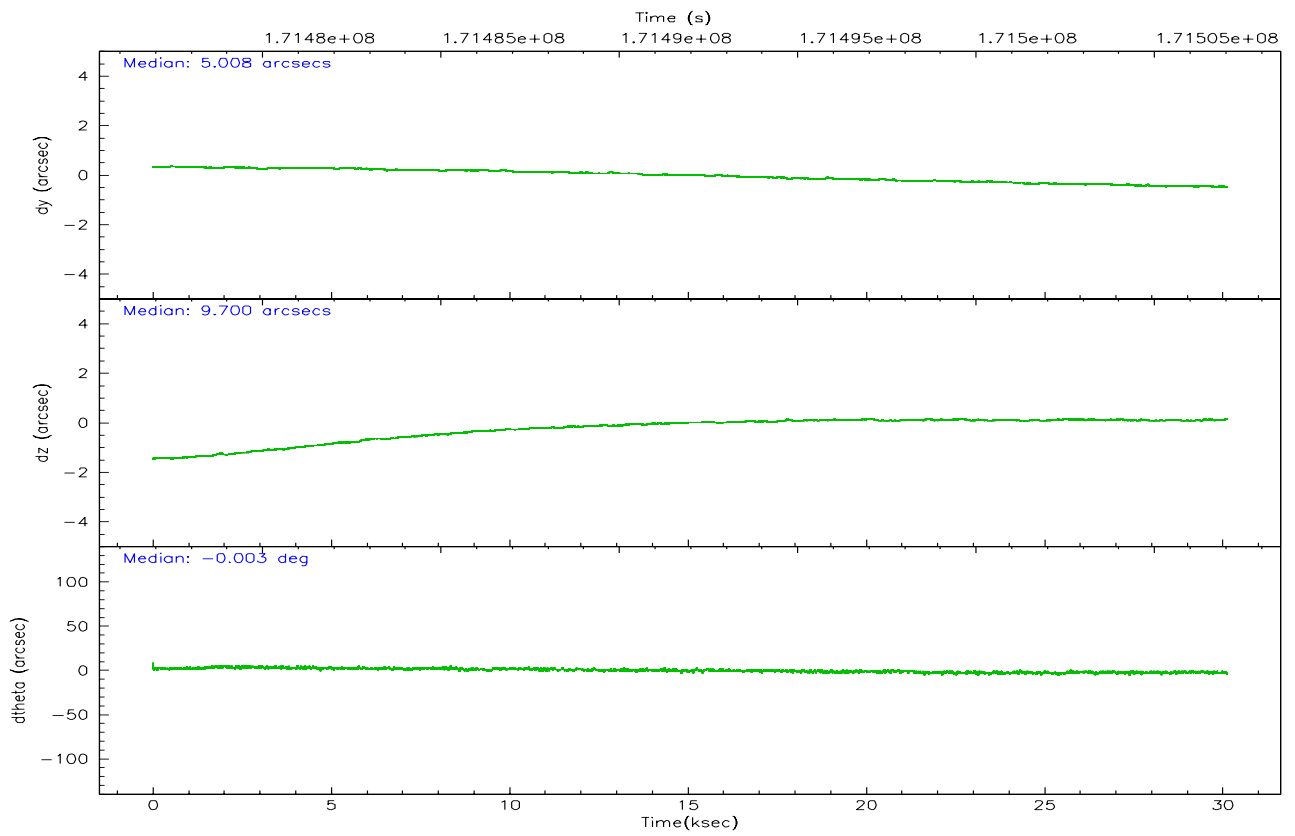
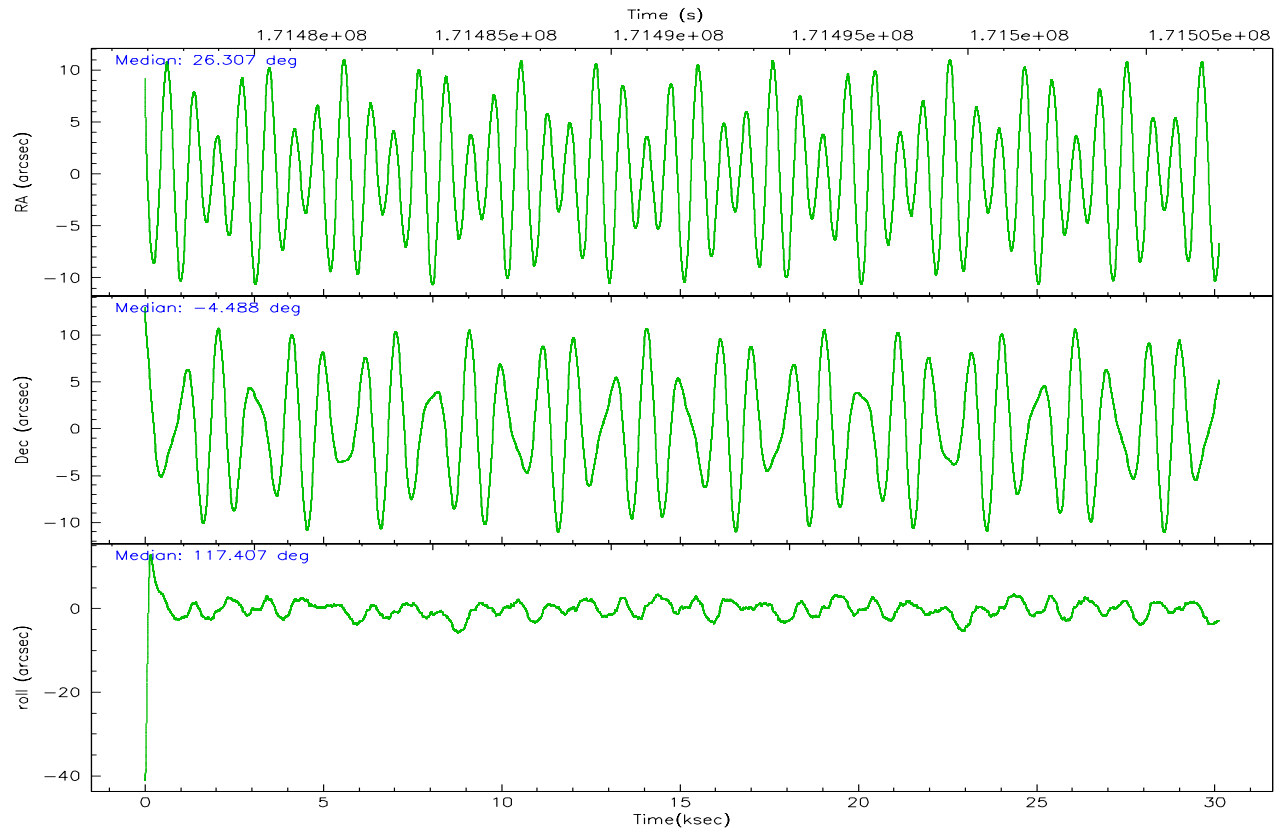
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 8
grade 0 events	9423	9334	9788	9478	8591	15273
	5%	5%	5%	5%	4%	6%
grade 1 events	88	80	86	78	69	147
	0%	0%	0%	0%	0%	0%
grade 2 events	4475	4931	4192	3944	4286	10185
	2%	2%	2%	2%	2%	4%
grade 3 events	2160	2325	2025	2124	2182	5078
	1%	1%	1%	1%	1%	2%
grade 4 events	2023	2251	2000	2178	2123	4794
	1%	1%	1%	1%	1%	2%
grade 5 events	7314	7624	7050	7916	8065	11038
	4%	4%	3%	4%	4%	4%
grade 6 events	3843	4420	3409	3684	4241	12313
	2%	2%	1%	2%	2%	5%
grade 7 events	136586	136930	151147	149820	150204	176411
	82%	81%	84%	83%	83%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012368	ACIS-012368	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	26.330269	26.30705809035372	Alternating exposures requested	N	N
Pointing Dec	-4.503014	-4.488363844304915	Primary exposure time	0.000000	3.2
Pointing Roll	117.201792	117.4086341523901			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	171477046.184000	171475827.99489			
Observation start date	2003-06-08T16:29:42	2003-06-08T16:10:27			
Observation end time	171507046.184000	171507572.75874			
Observation end date	2003-06-09T00:49:42	2003-06-09T00:59:32			
Read mode	TIMED	TIMED			

2.3 Aspect





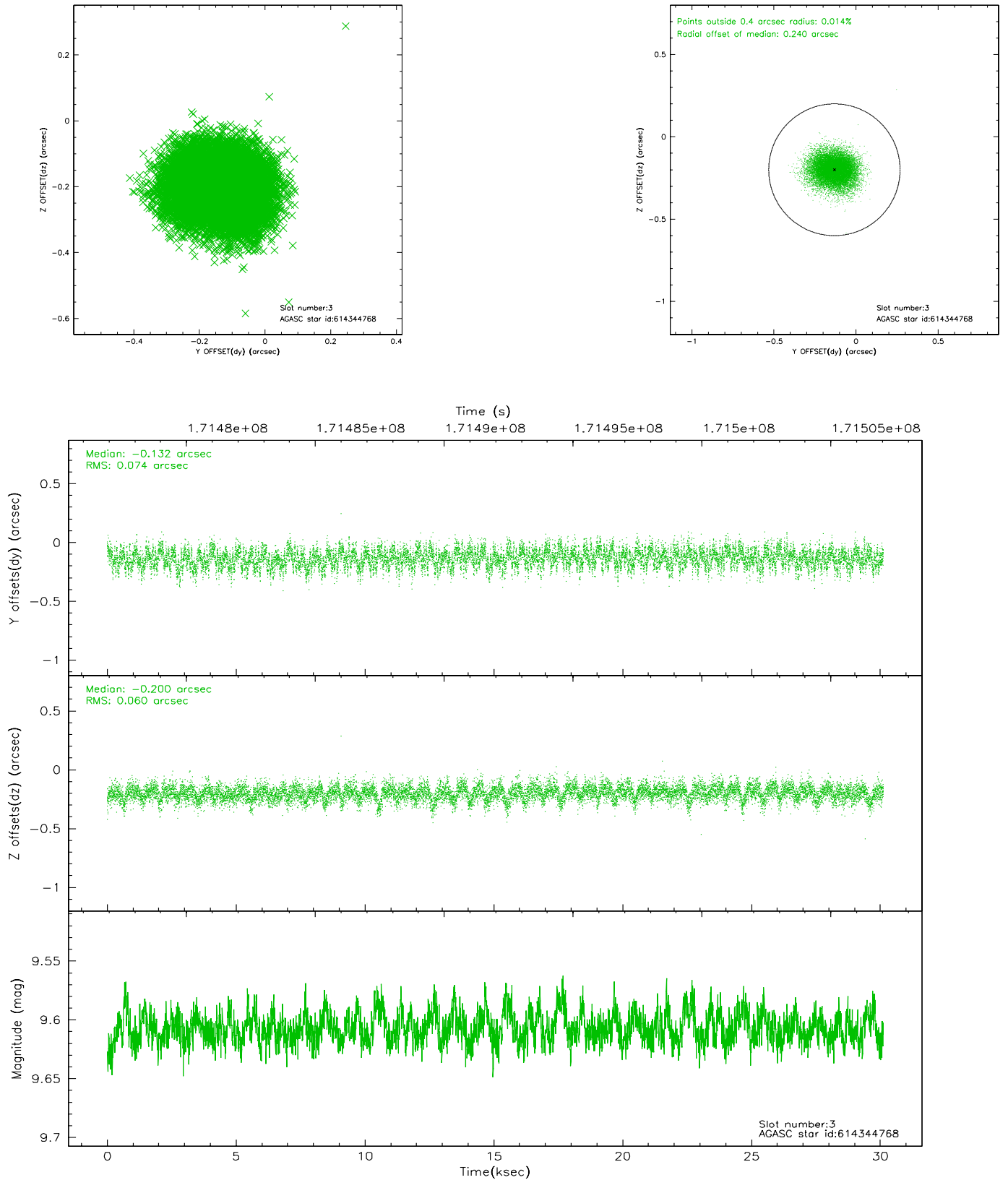
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	7347	-0.035	0.082	0.015	0.022	0.000000	0.000000	934.73	-832.81
1	FID	ACIS-I-2	7.15	7345	-0.062	-0.026	0.011	0.019	0.000000	0.000000	-759.34	-839.41
2	FID	ACIS-I-4	7.18	7346	-0.000	0.008	0.019	0.025	0.000000	0.000000	2154.60	1066.90
3	GUIDE	614344768	9.61	14685	-0.132	-0.200	0.102	0.165	25.572186	-4.331089	1793.12	2137.97
4	GUIDE	614345176	9.73	14681	-0.044	0.011	0.113	0.180	25.877982	-4.292809	1414.93	1098.39
5	GUIDE	614345376	9.28	14688	-0.162	-0.112	0.085	0.135	25.702118	-4.344424	1537.63	1744.98
6	GUIDE	614482496	8.04	14693	0.041	0.135	0.056	0.093	26.490453	-4.228669	615.58	-962.54
7	GUIDE	614483944	10.03	14681	0.299	0.168	0.131	0.211	26.708180	-4.967254	-2105.95	-441.27

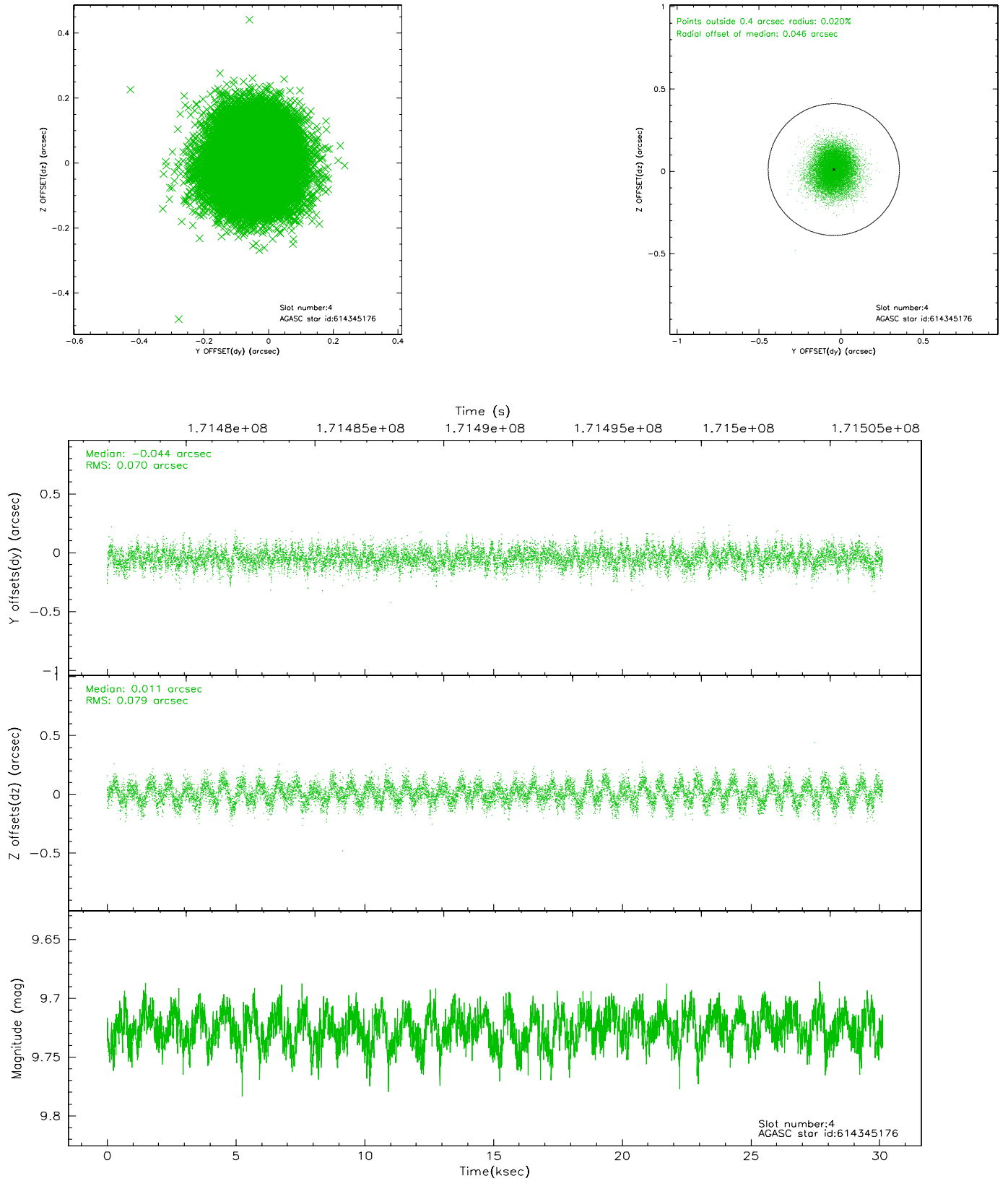


## 2.4 Star Slots

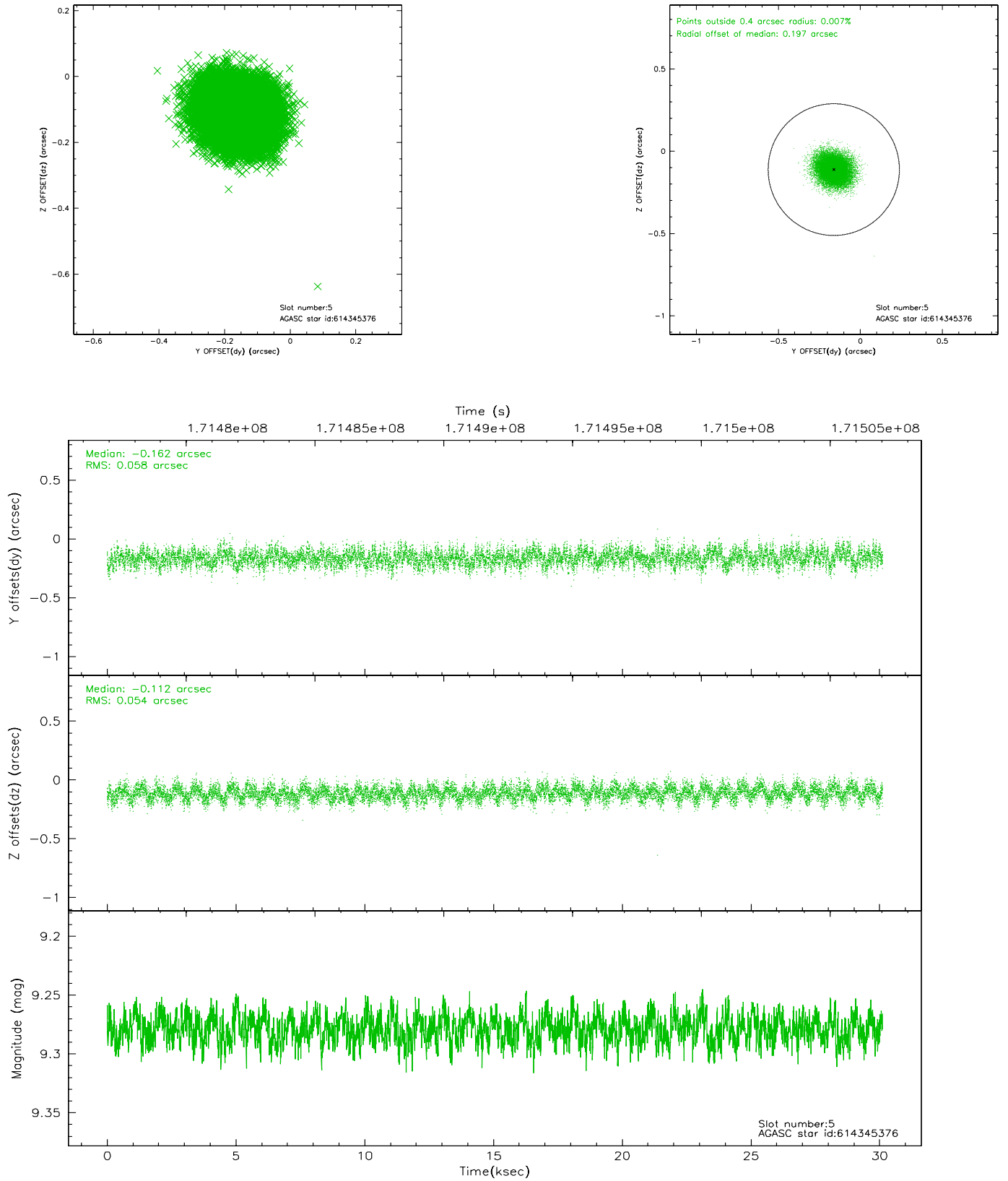
### 2.4.1 Slot 3



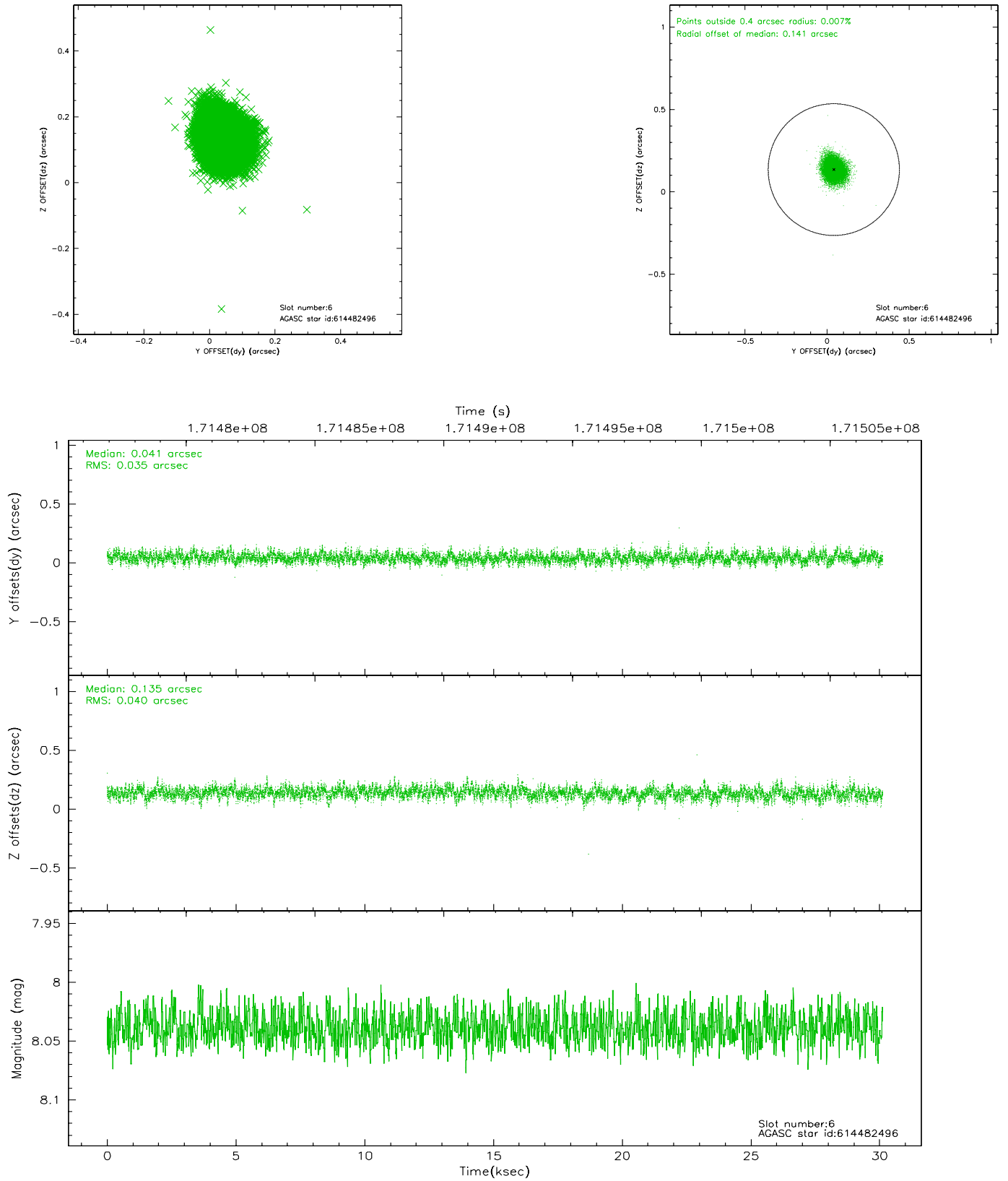
## 2.4.2 Slot 4



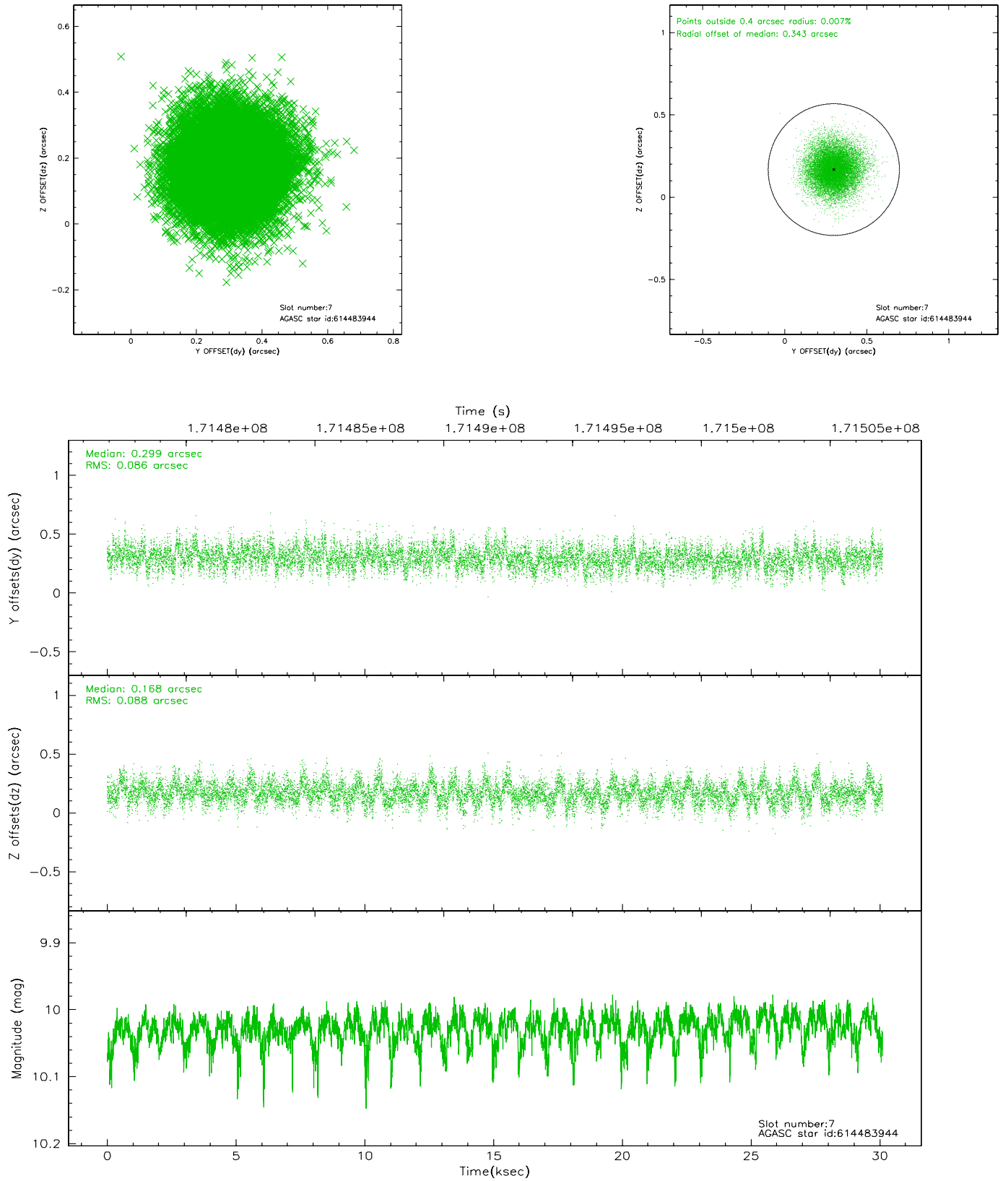
### 2.4.3 Slot 5



## 2.4.4 Slot 6

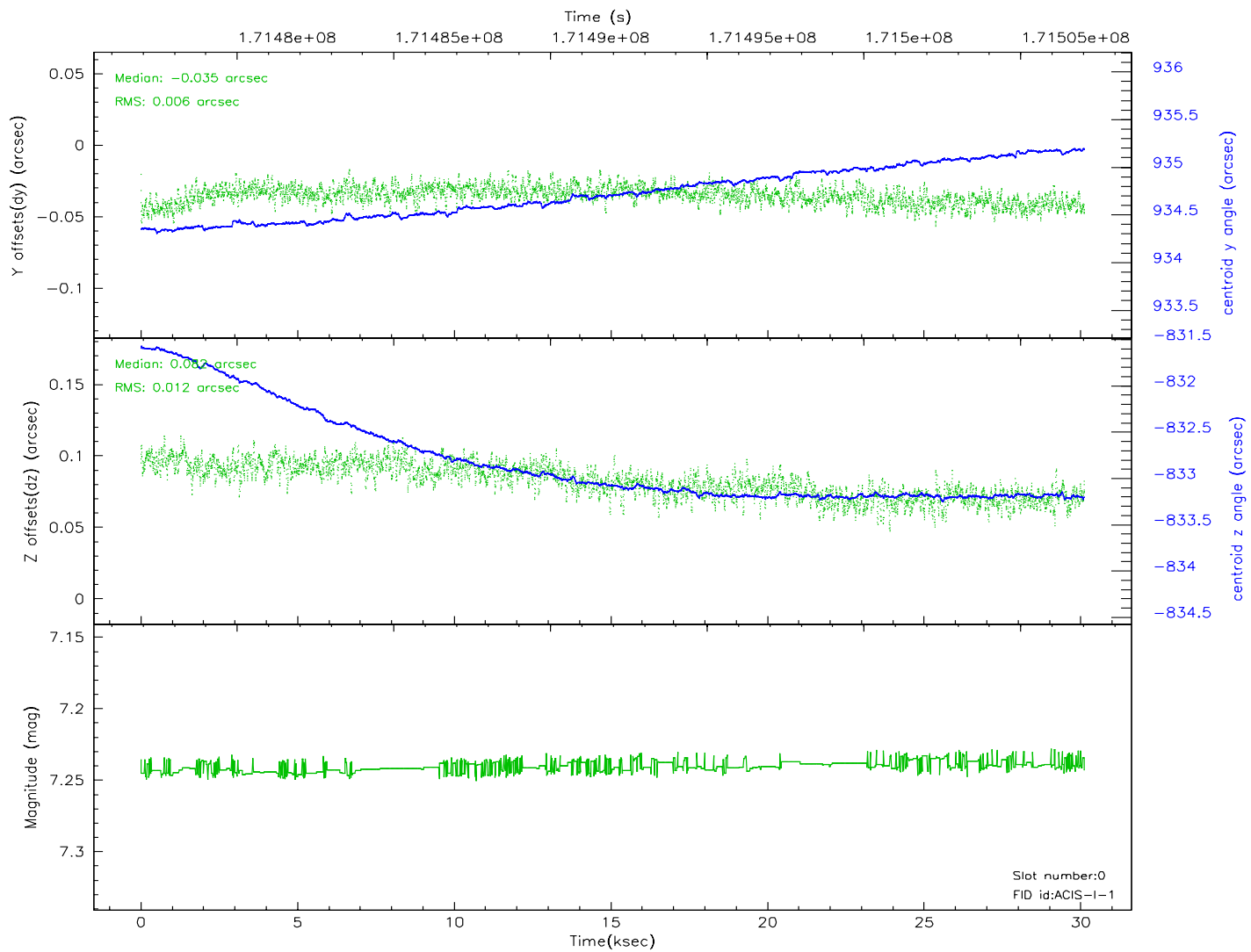
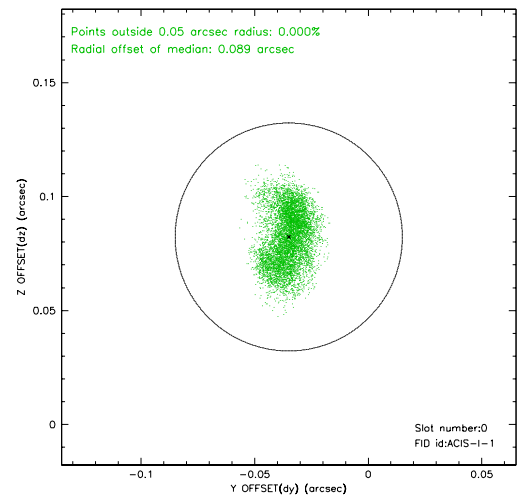
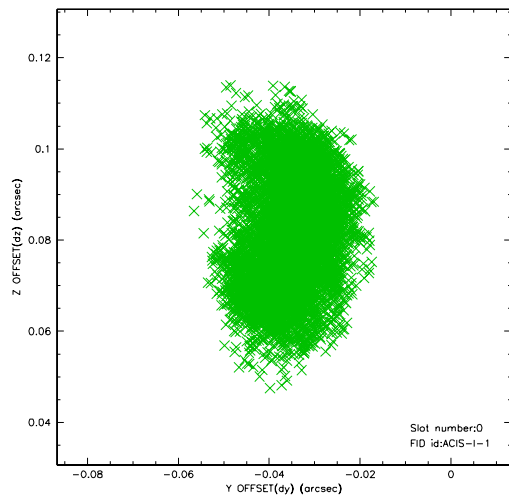


## 2.4.5 Slot 7

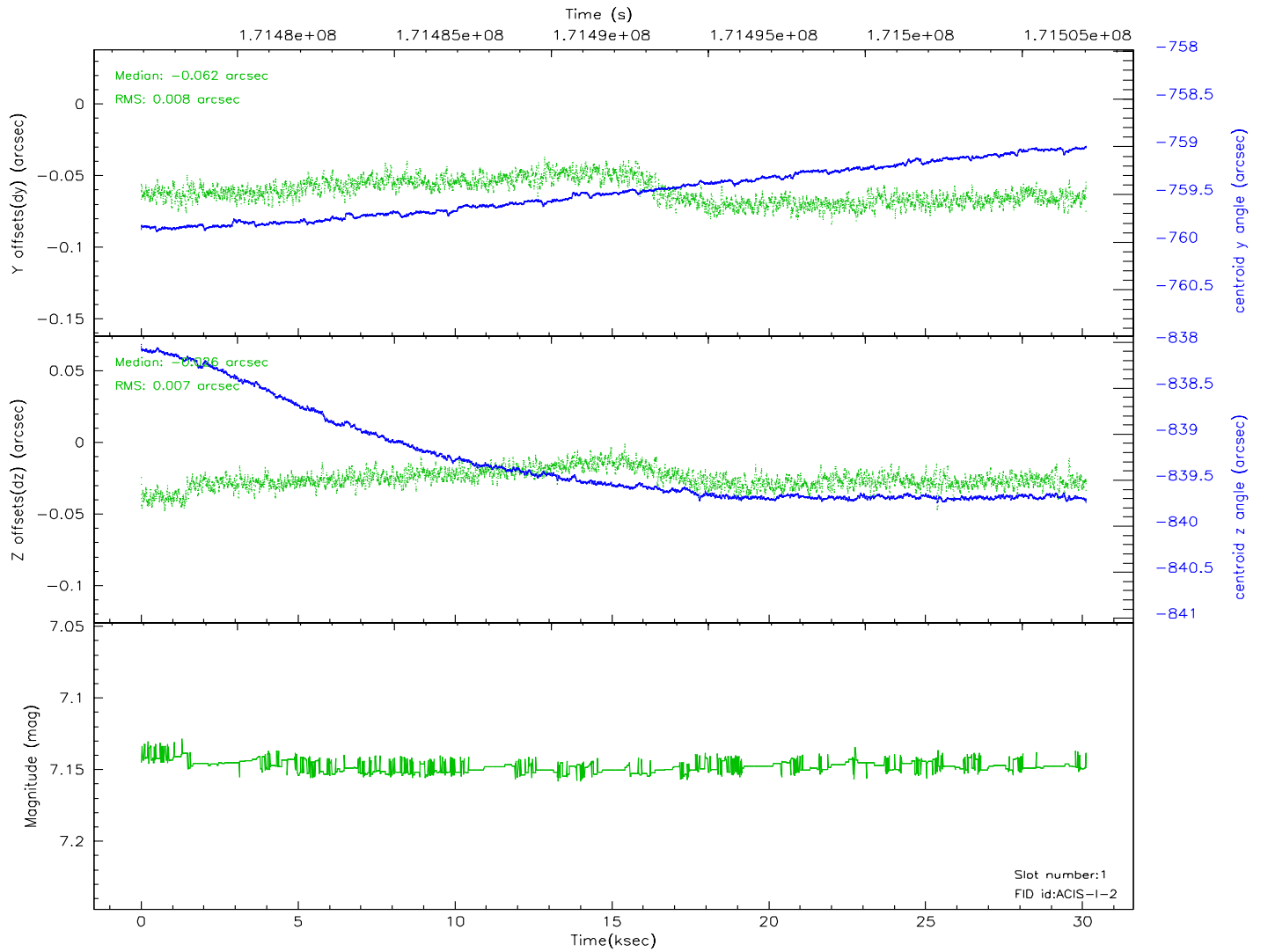
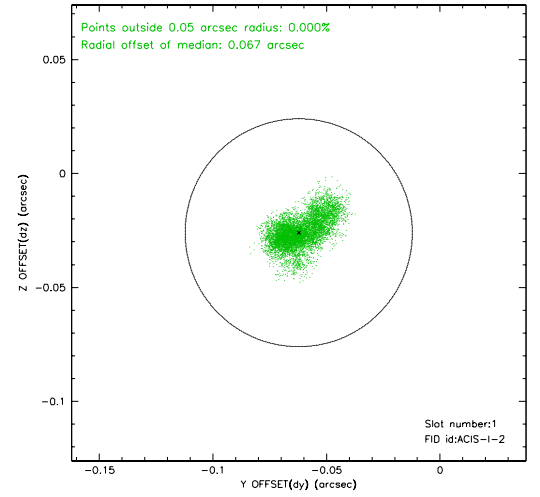
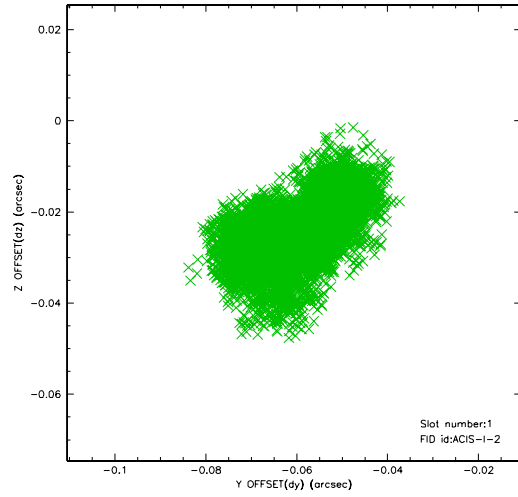


## 2.5 FID Slots

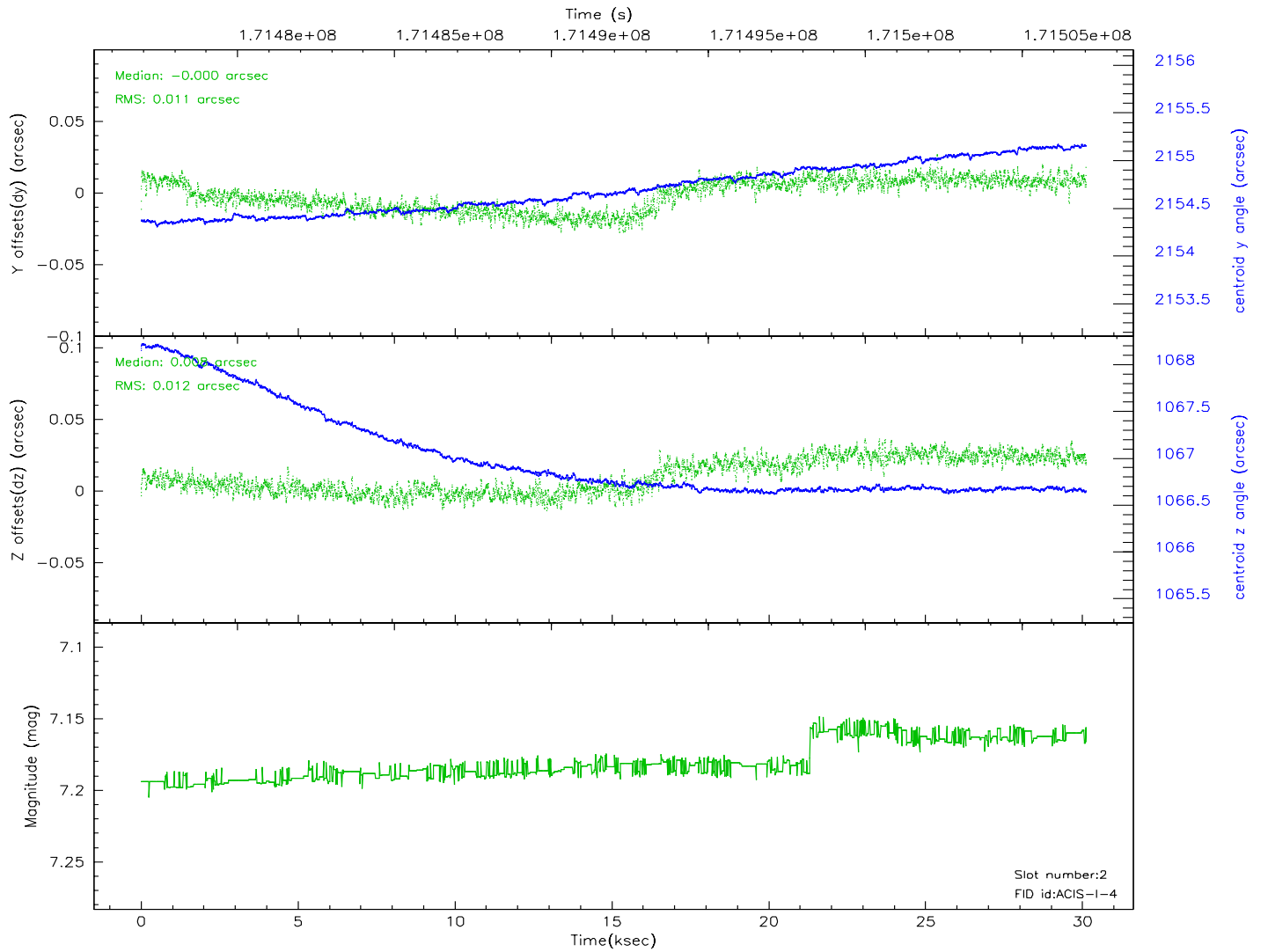
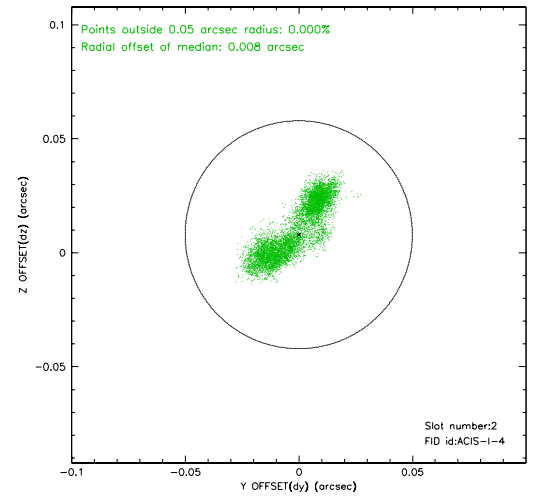
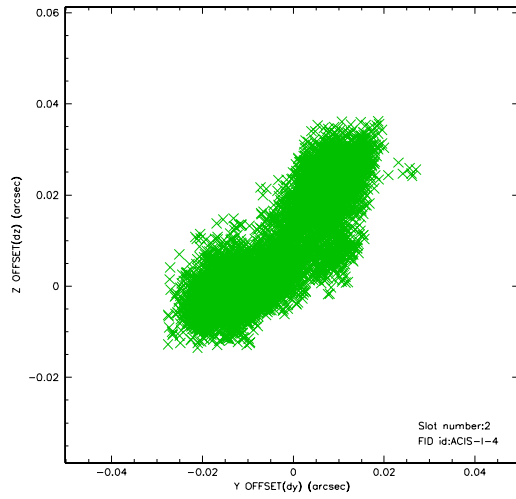
### 2.5.1 Slot 0



## 2.5.2 Slot 1

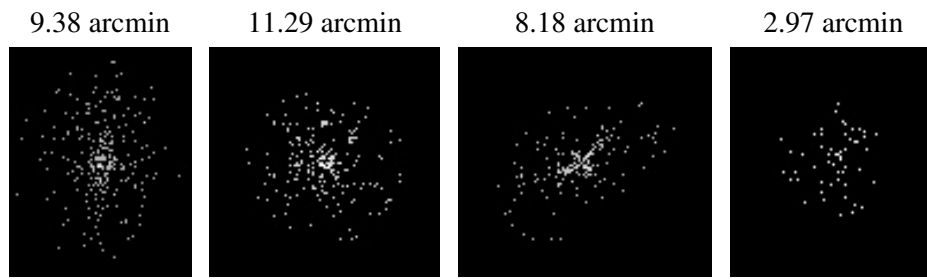


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.111

### A.2 Comments