

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2931 - L2 Version 001  
Chandra X-Ray Center

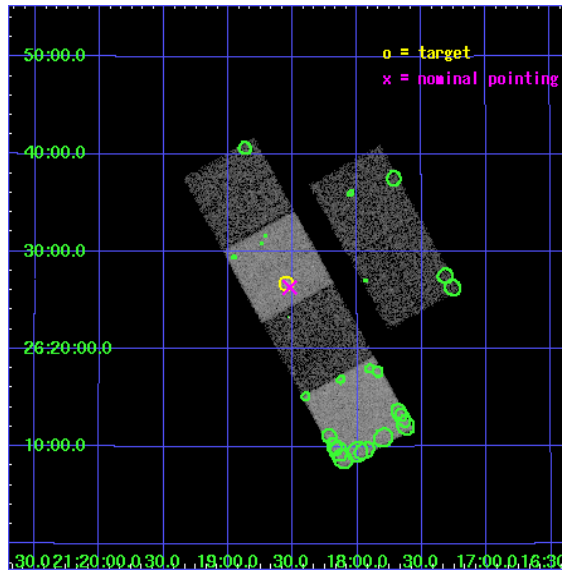
L2 Processing Date : Oct 4 2006

## 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

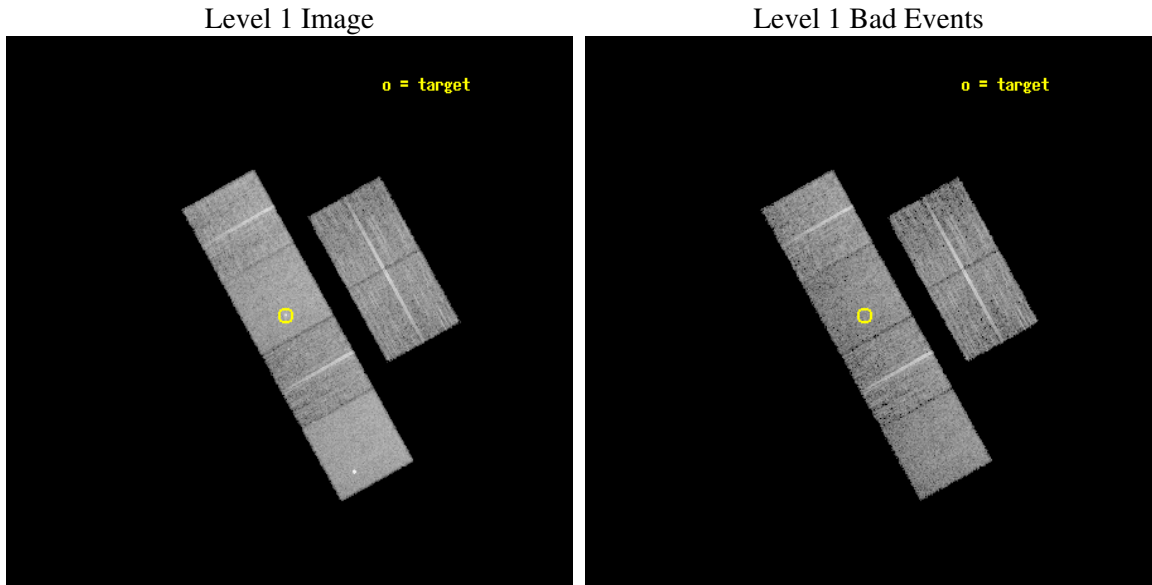
seq_num	600268
obs_id	2931
title	CHANDRA SURVEY OF GALAXIES WITH KNOWN BLACK HOLE MASSES
observer	Dr. Andrew Ptak
object	NGC7052
dtcycle	0
cycle	P
ra_targ	319.6375
dec_targ	26.446667
ra_nom	319.6307077323
dec_nom	26.439121812593
roll_nom	240.94294397746
revision	2
ontime	9753.599963665
livetime	9630.0940080123
ontime2	9753.599963665
ontime3	9753.599963665
ontime5	9753.599963665
ontime6	9753.599963665
ontime7	9753.599963665
ontime8	9750.3589933813
l2events	90545



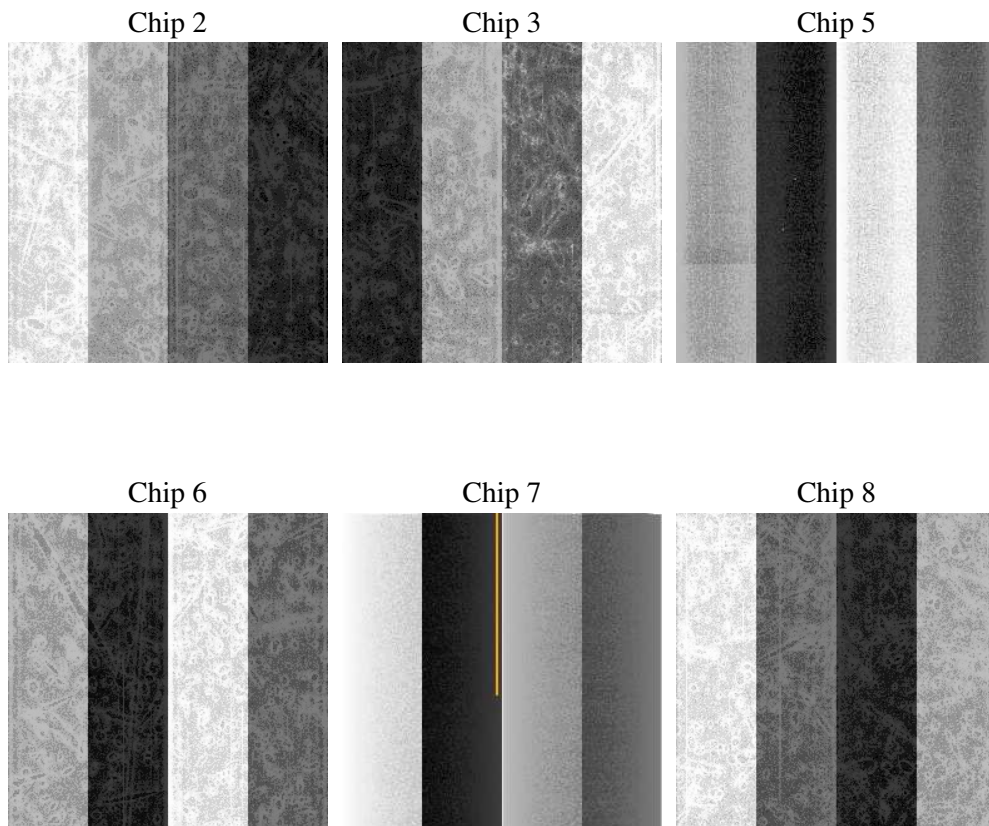
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-04T14:34:14
revision	2

sched_exp_time	10000.000000
ontime	9758.6614335179
ontime2	9758.6614036262
ontime3	9758.6614036262
ontime5	9758.6614335179
ontime6	9758.6614036262
ontime7	9758.6614335179
ontime8	9755.4203137755
l1events	425389

### 2.1.4 Events

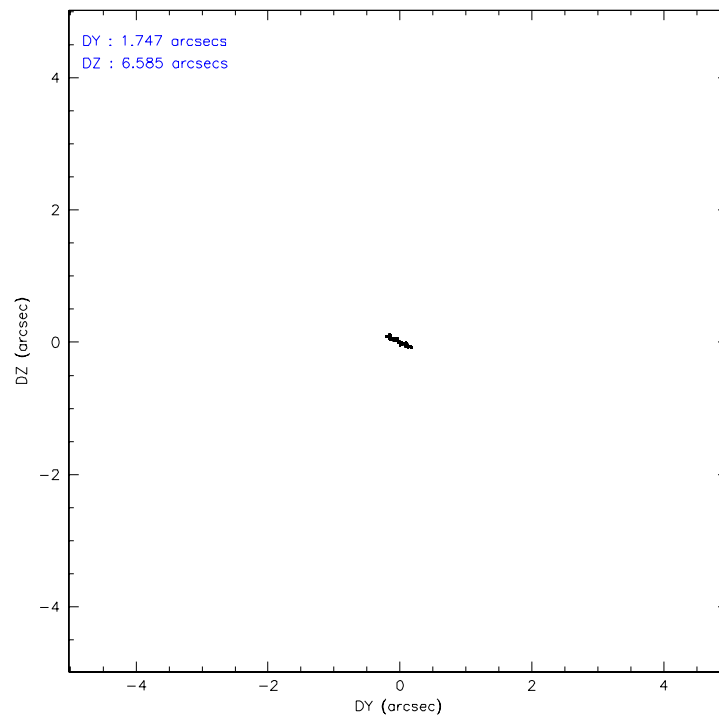
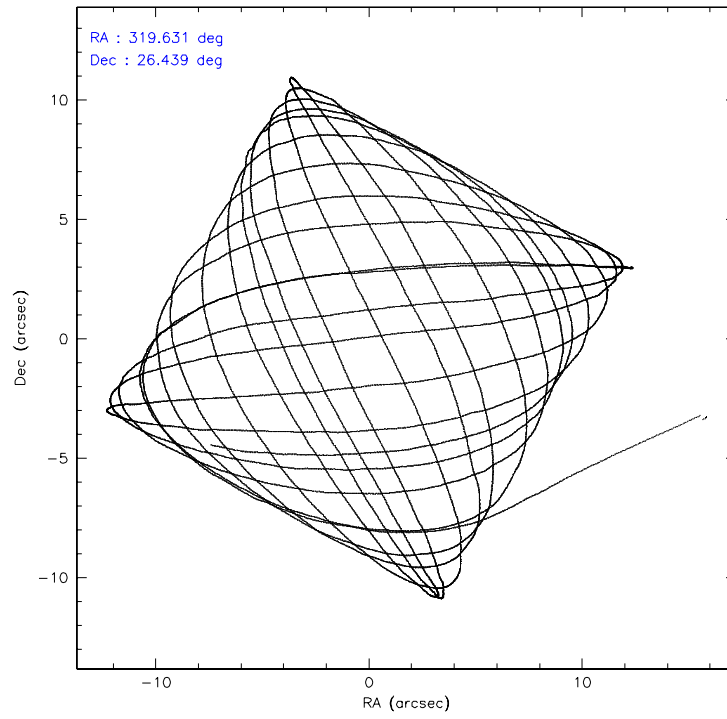
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	62443	57748	86198	60700	79822	78478
rejected events	55679	50888	48910	53738	48723	63295
rejected %	89%	88%	56%	88%	61%	80%

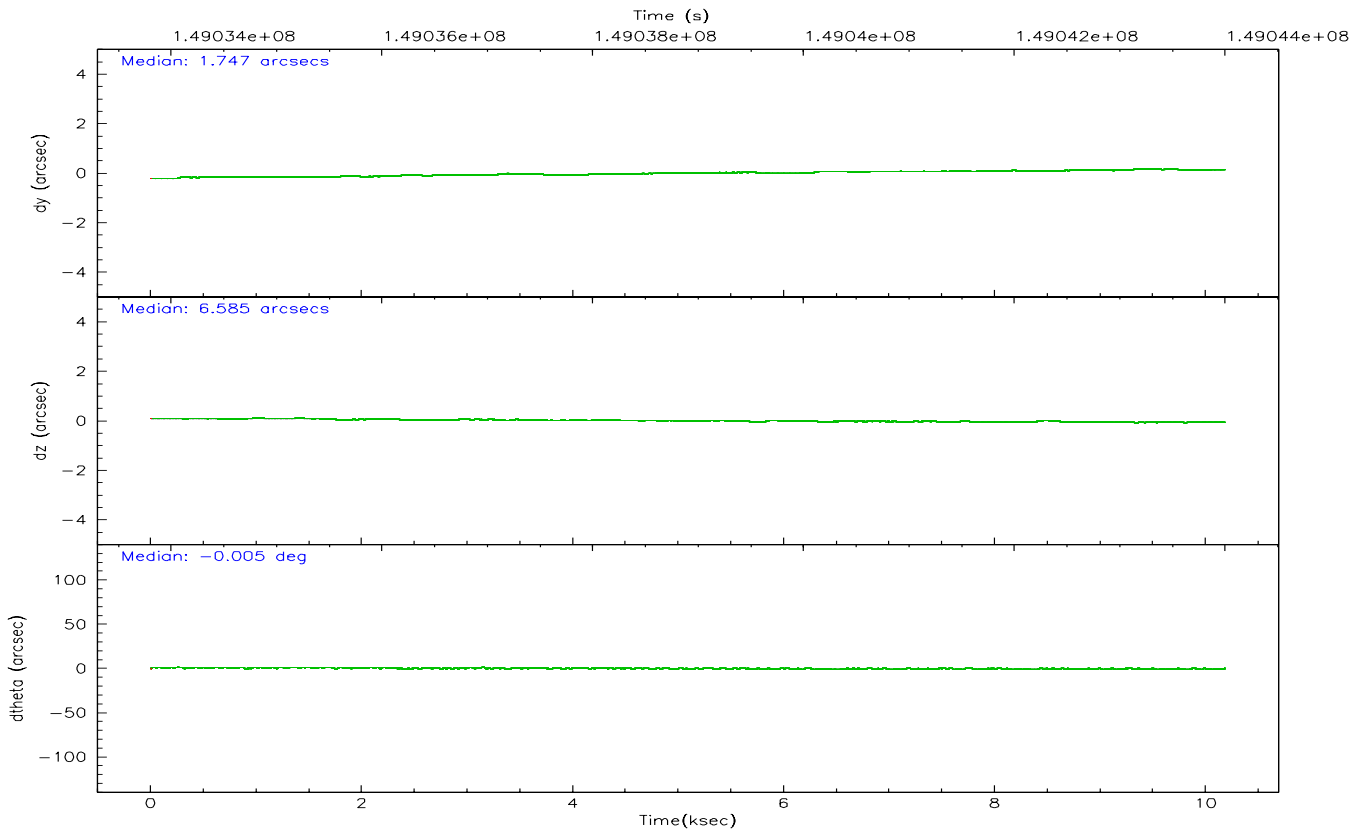
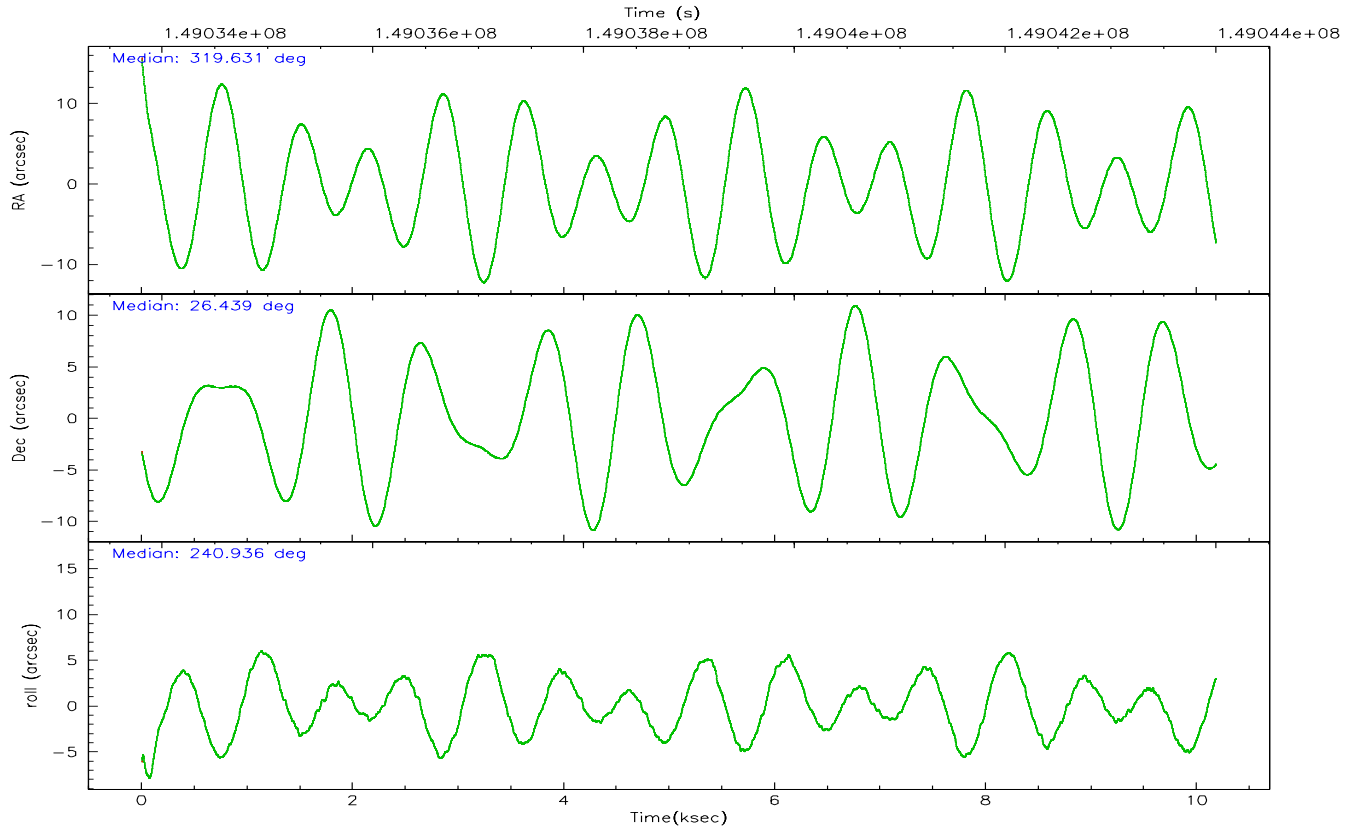
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2848	3007	2614	2788	2047	4902
	4%	5%	3%	4%	2%	6%
grade 1 events	41	25	62	46	45	62
	0%	0%	0%	0%	0%	0%
grade 2 events	1404	1247	11538	1398	7692	3189
	2%	2%	13%	2%	9%	4%
grade 3 events	697	707	871	715	1666	1805
	1%	1%	1%	1%	2%	2%
grade 4 events	679	650	802	673	1612	1616
	1%	1%	0%	1%	2%	2%
grade 5 events	2352	2502	4169	2637	5218	3453
	3%	4%	4%	4%	6%	4%
grade 6 events	1138	1255	21477	1391	18093	3681
	1%	2%	24%	2%	22%	4%
grade 7 events	53284	48355	44665	51052	43449	59770
	85%	83%	51%	84%	54%	76%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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
Pointing RA	319.629771	319.6307077322992	Subarray requested	NONE	NONE
Pointing Dec	26.466383	26.43912181259332	Alternating exposures requested	N	N
Pointing Roll	240.786727	240.9429439774634	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	149033997.184000	149033142.50403			
Observation start date	2002-09-21T22:18:53	2002-09-21T22:05:42			
Observation end time	149043997.184000	149044769.07951			
Observation end date	2002-09-22T01:05:33	2002-09-22T01:19:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



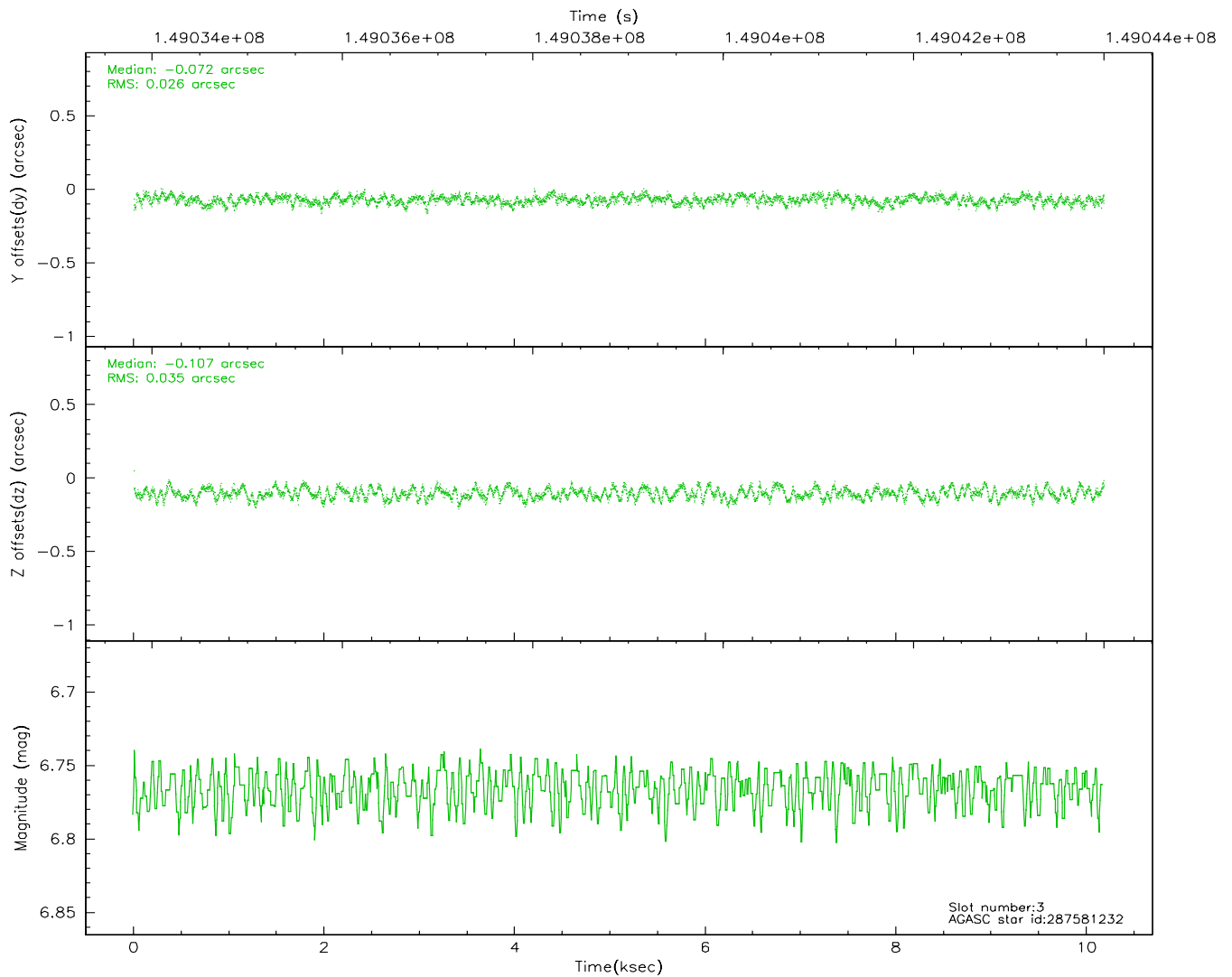
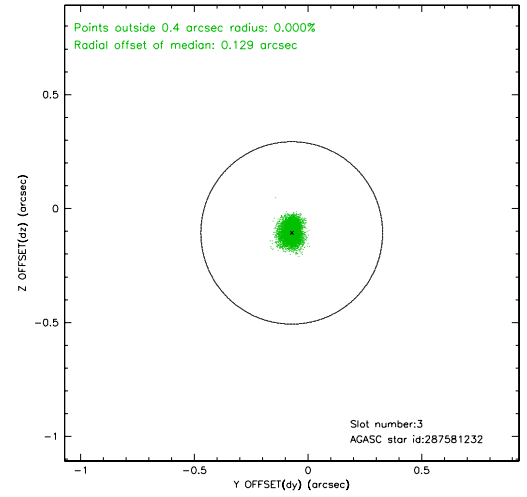
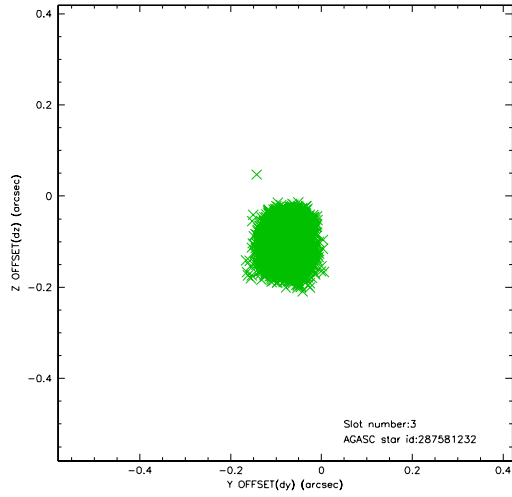


### Slot Statistics

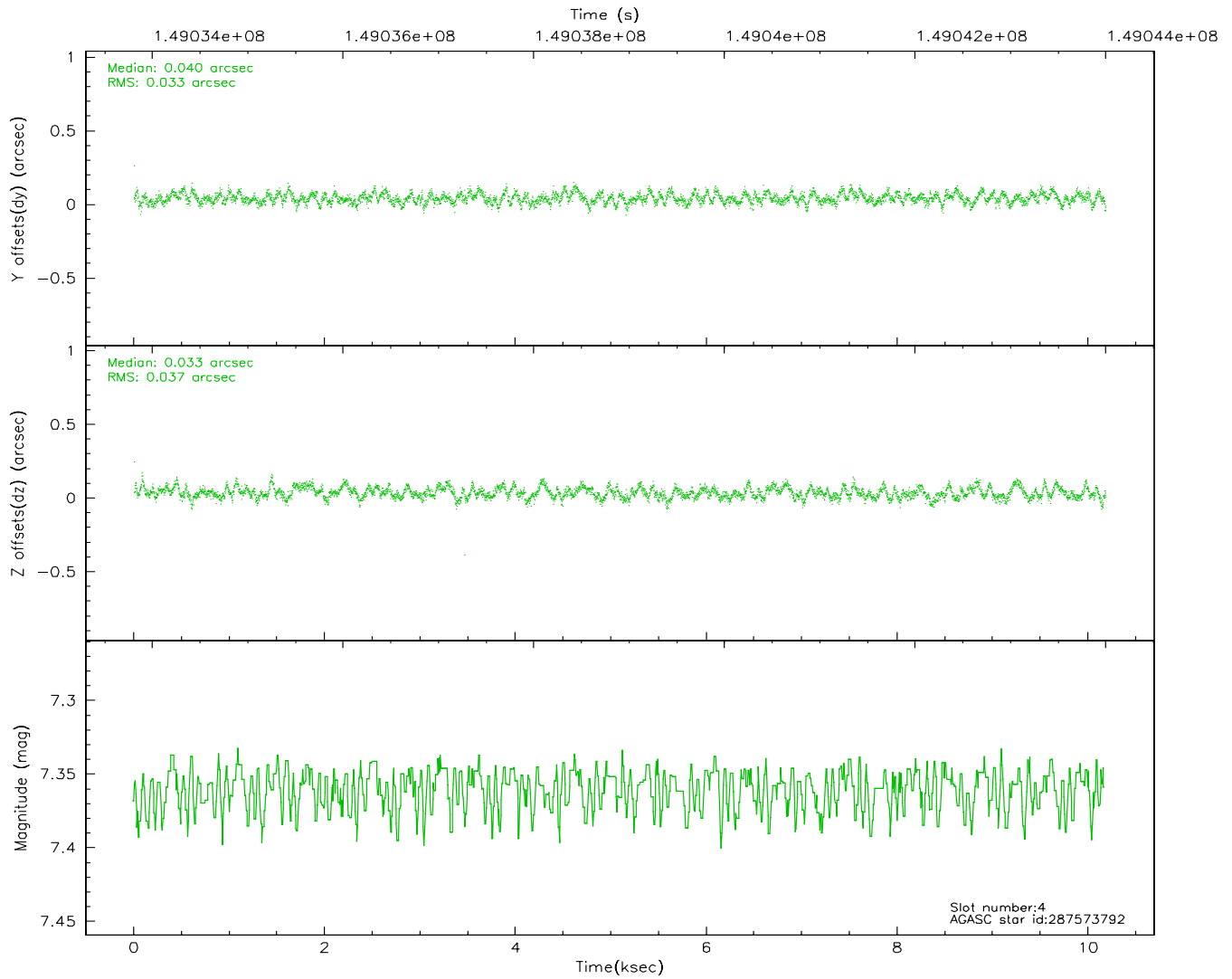
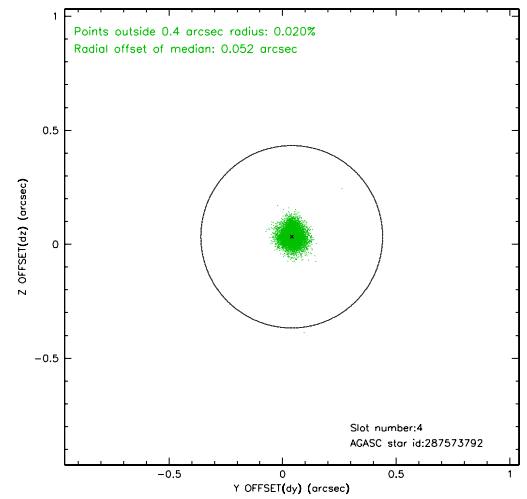
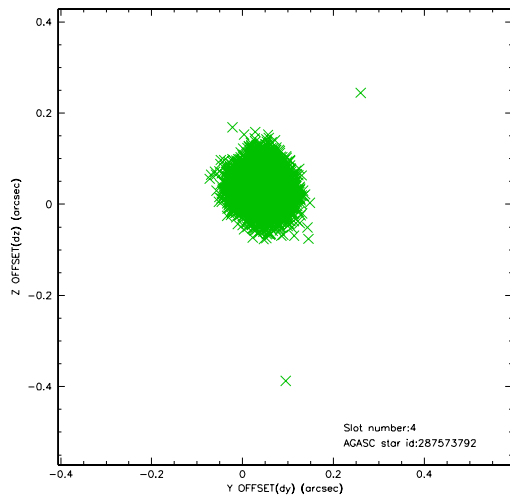
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	2484	-0.036	0.019	0.006	0.011	0.000000	0.000000	-754.37	-1727.74
1	FID	ACIS-S-4	7.21	2483	-0.039	0.012	0.005	0.009	0.000000	0.000000	2158.66	180.23
2	FID	ACIS-S-5	7.24	2484	0.044	-0.023	0.006	0.010	0.000000	0.000000	-1806.48	174.42
3	GUIDE	287581232	6.77	4968	-0.072	-0.107	0.048	0.074	320.158943	26.250130	-156.88	1868.99
4	GUIDE	287573792	7.36	4968	0.040	0.033	0.053	0.082	319.070855	26.350284	1242.32	-1371.47
5	GUIDE	287055368	8.58	4965	0.099	0.008	0.055	0.089	319.750759	26.090042	992.50	1002.03
6	GUIDE	287582424	9.06	4967	-0.067	-0.003	0.068	0.111	319.414036	27.272223	-2194.57	-2019.21
7	GUIDE	287586176	9.39	4963	0.002	0.065	0.090	0.146	319.090977	26.915299	-569.03	-2300.90

## 2.4 Star Slots

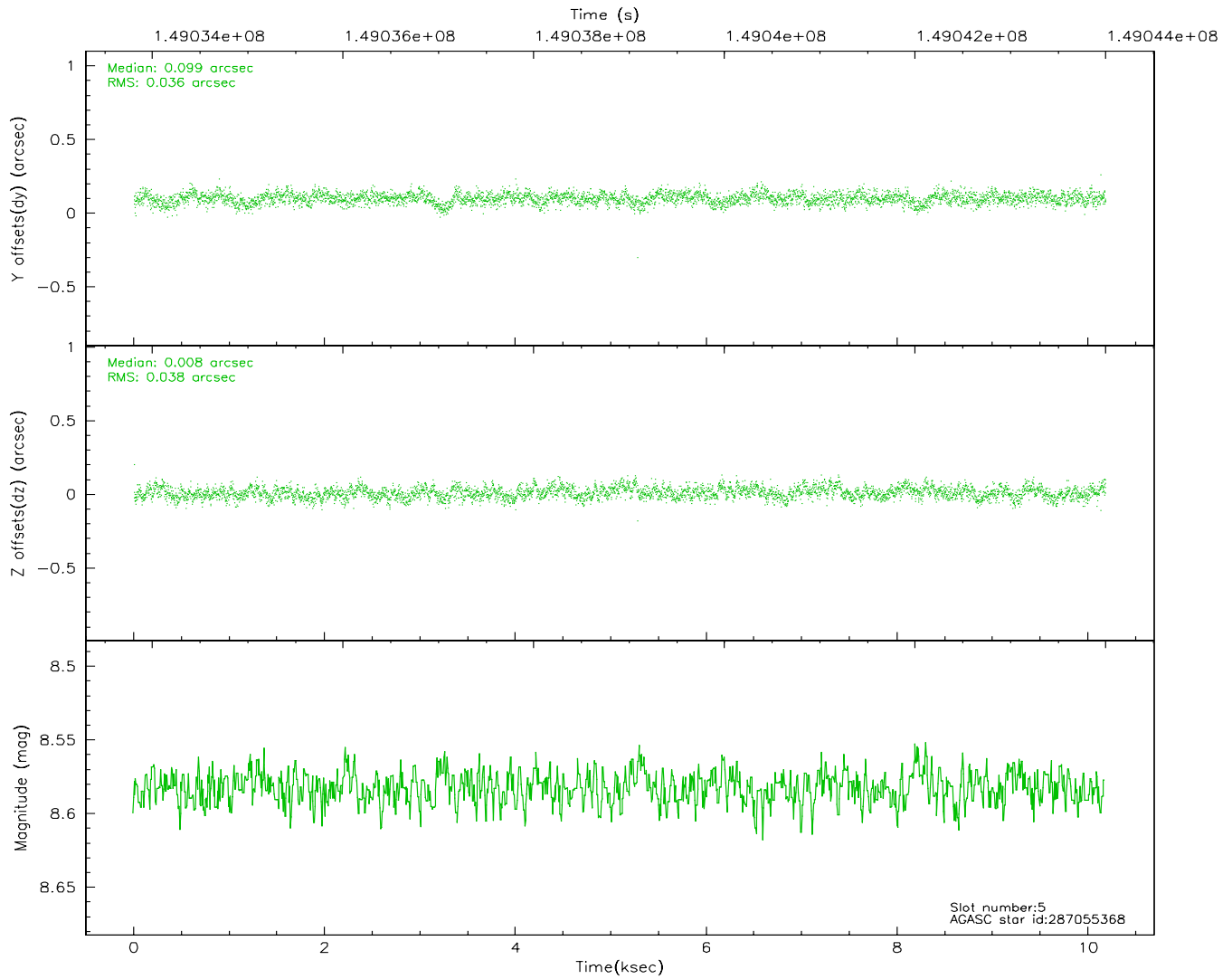
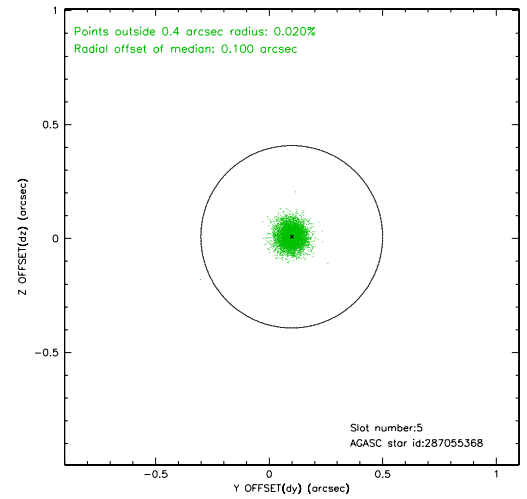
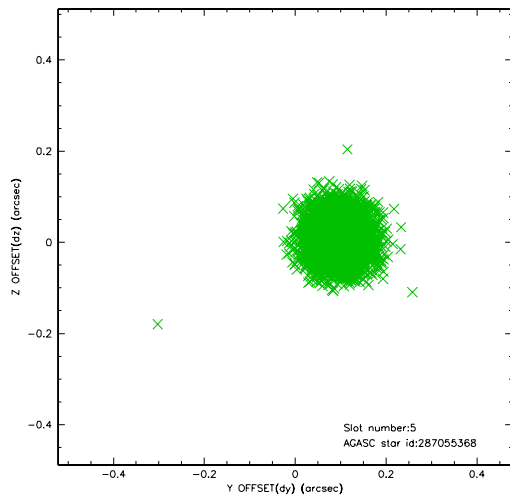
### 2.4.1 Slot 3



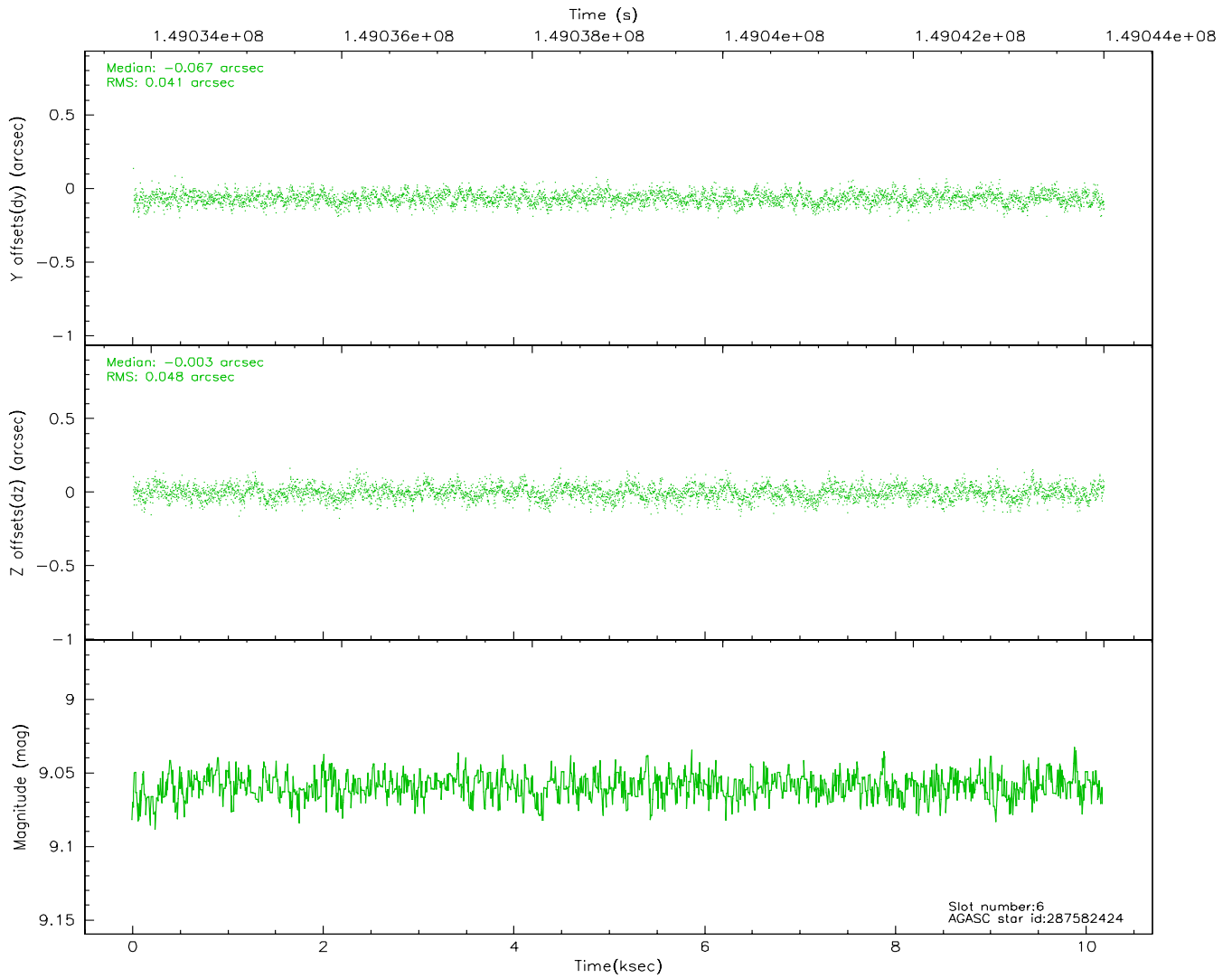
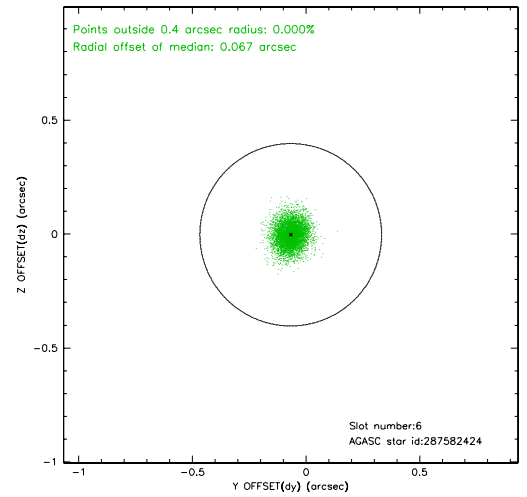
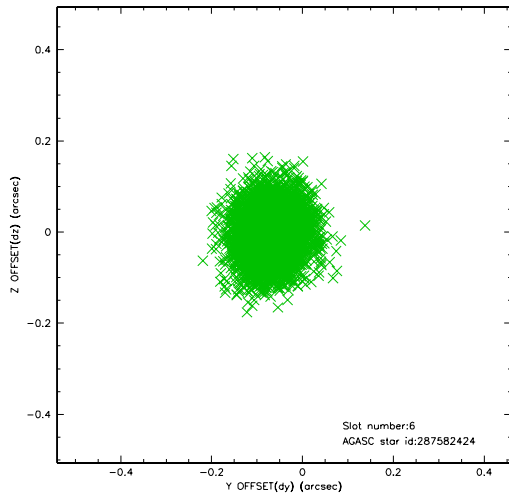
## 2.4.2 Slot 4



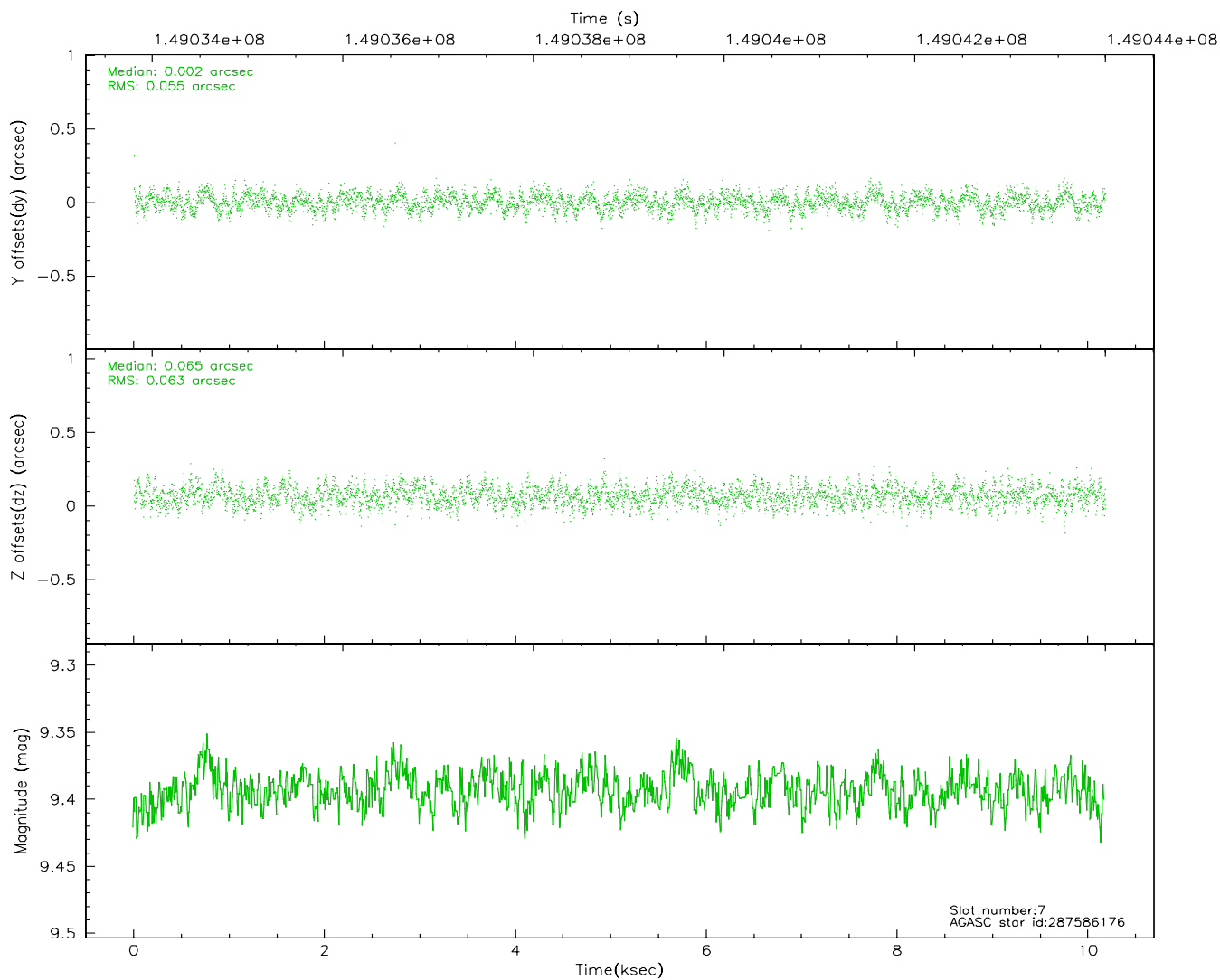
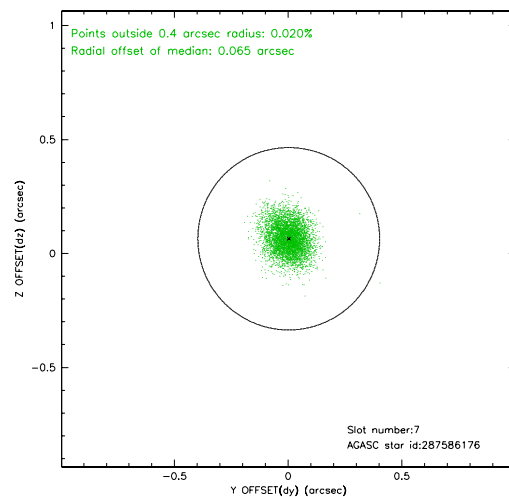
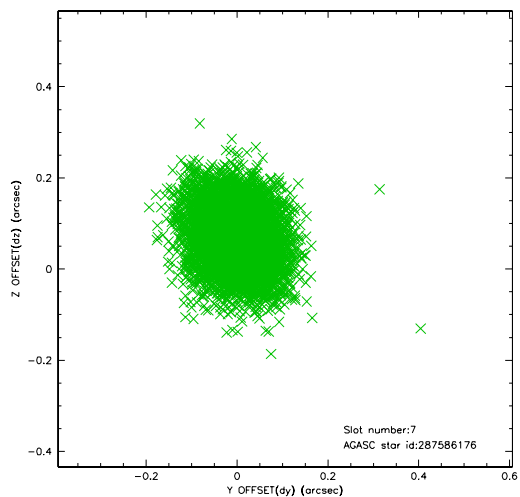
### 2.4.3 Slot 5



### 2.4.4 Slot 6

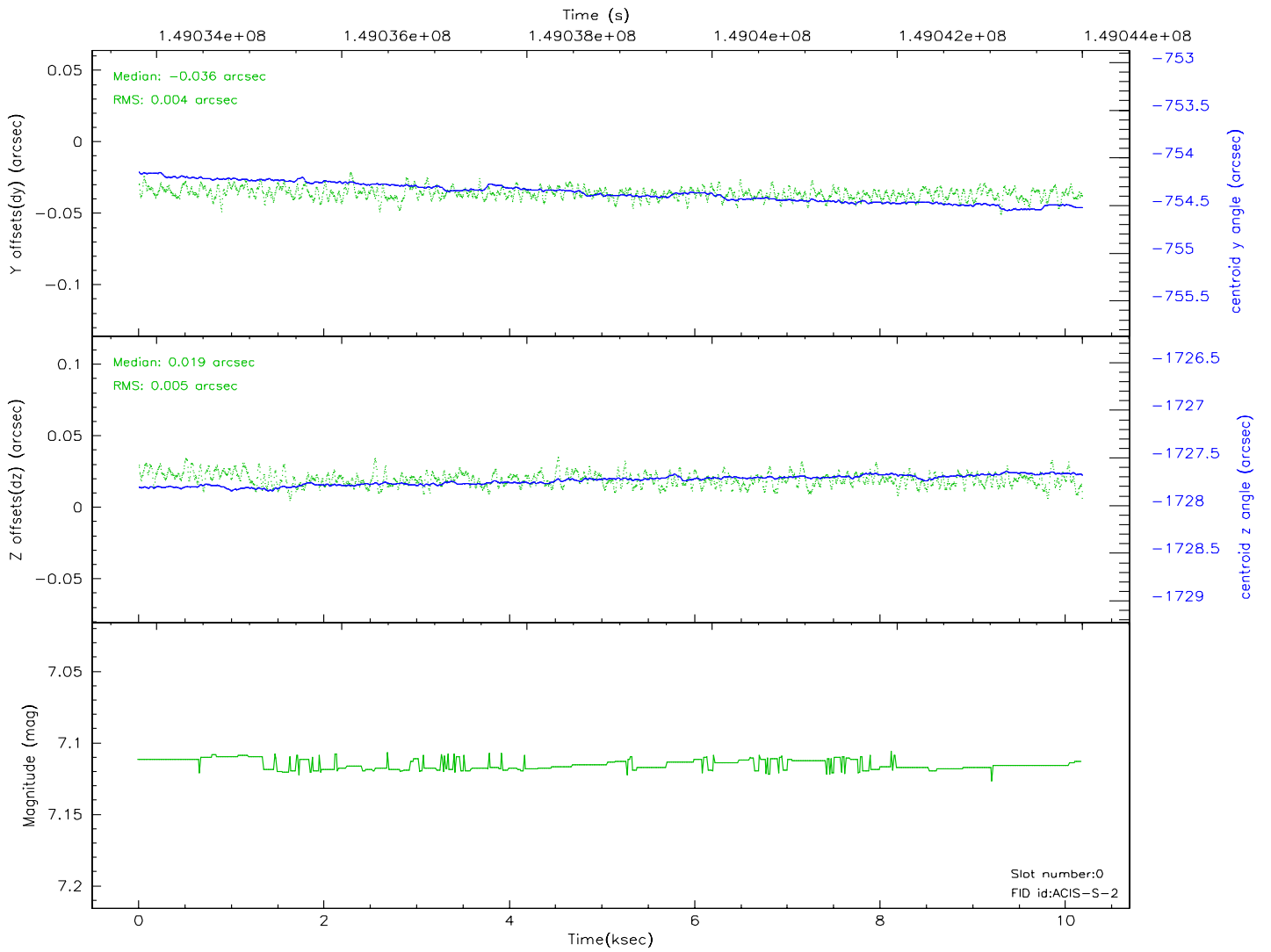
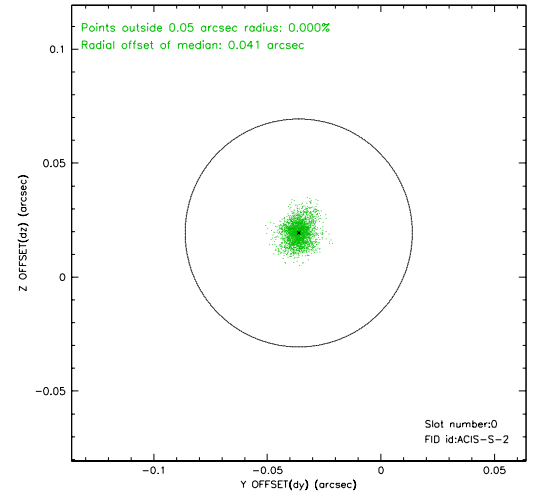
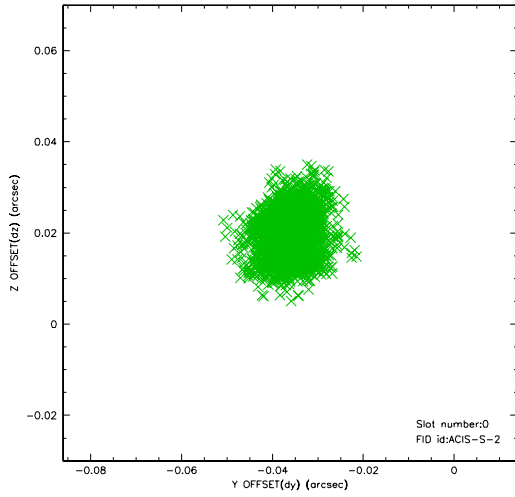


## 2.4.5 Slot 7

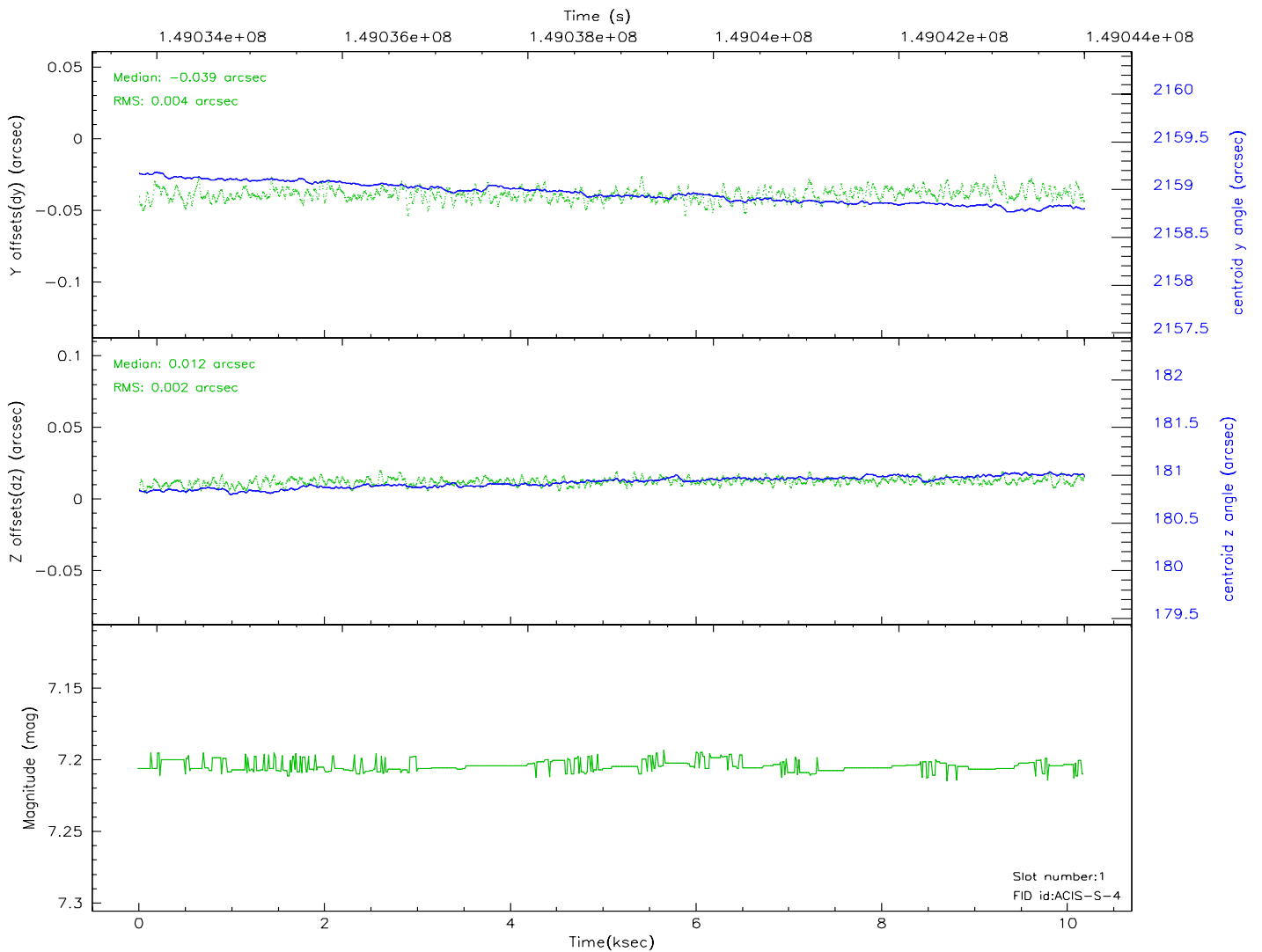
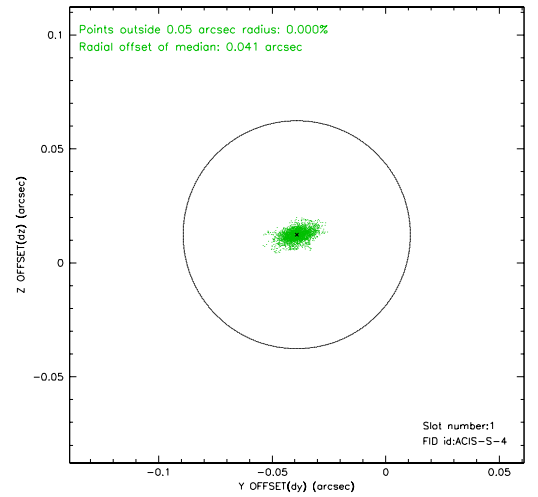
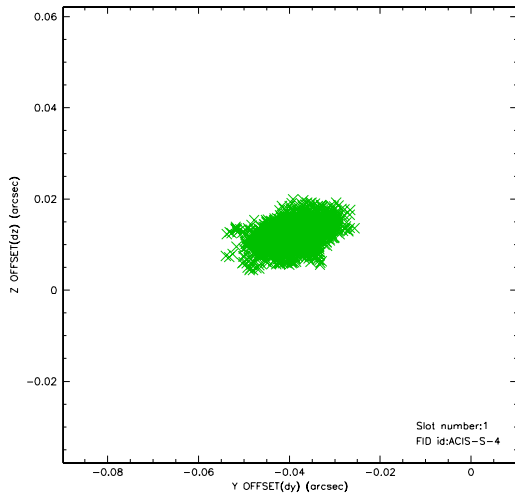


## 2.5 FID Slots

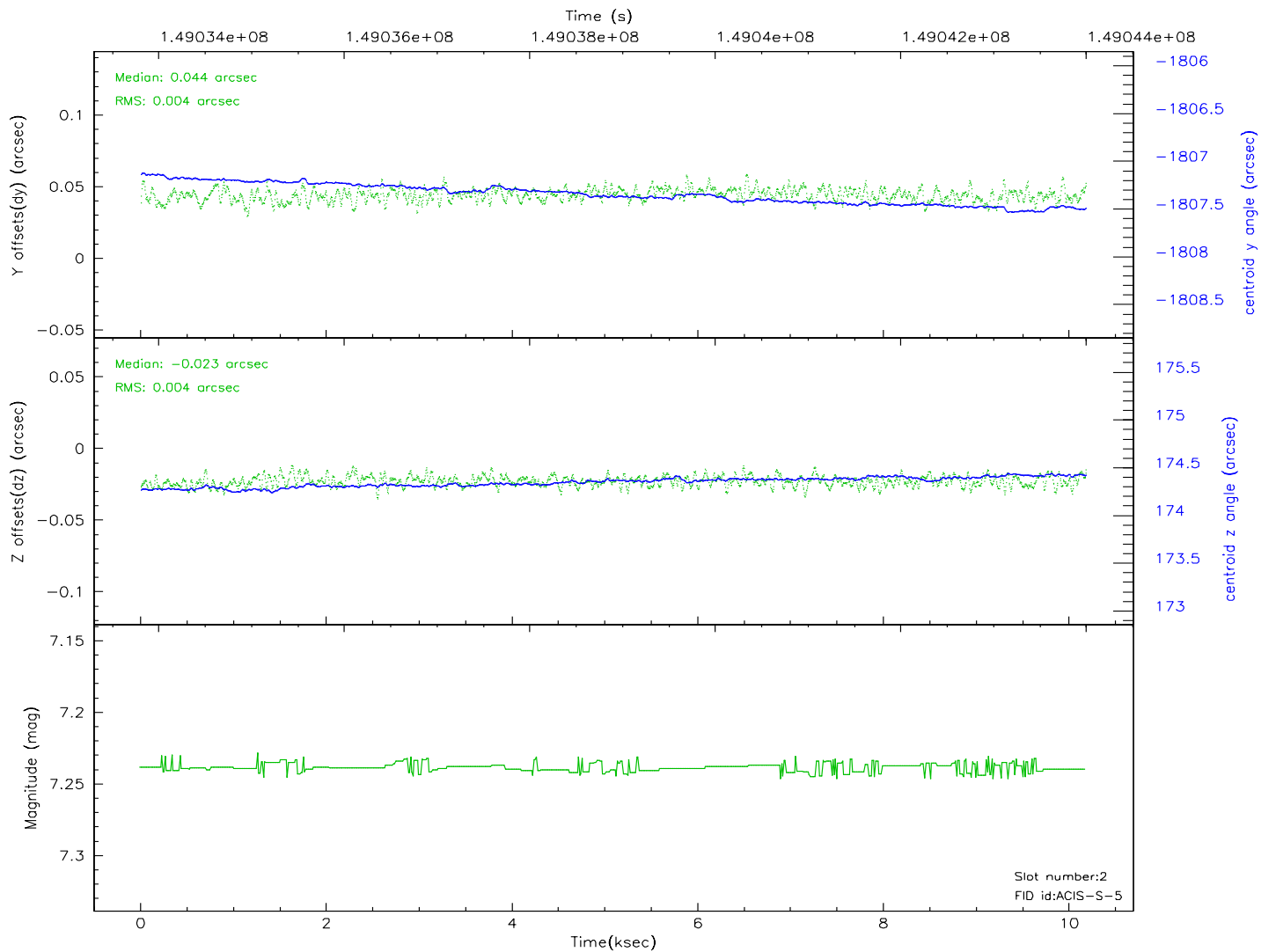
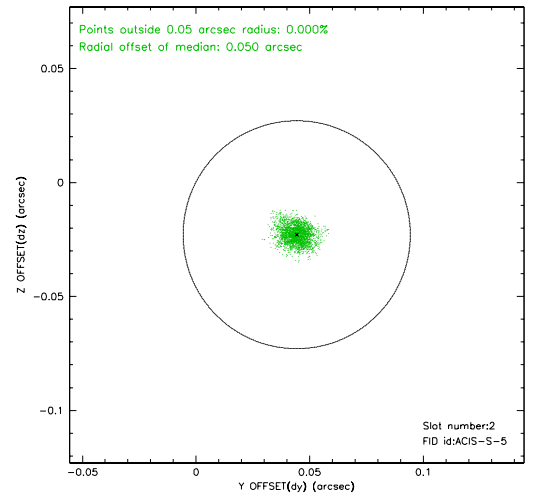
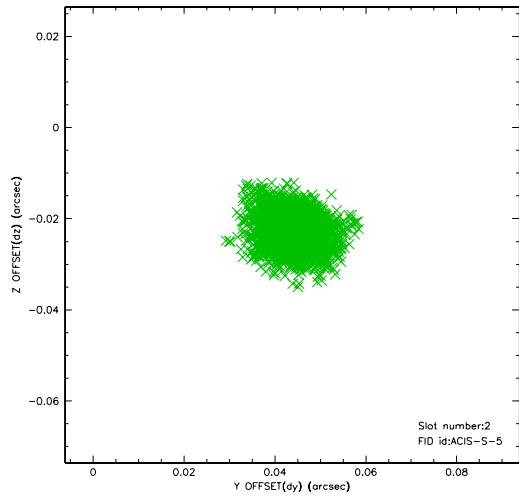
### 2.5.1 Slot 0



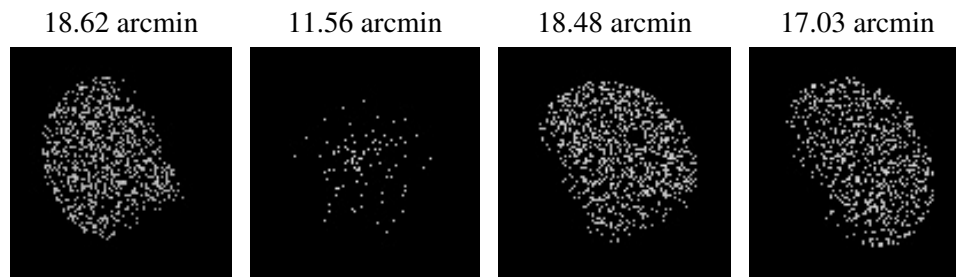
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.753

## A.2 Comments