

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 2979 - L2 Version 001  
Chandra X-Ray Center

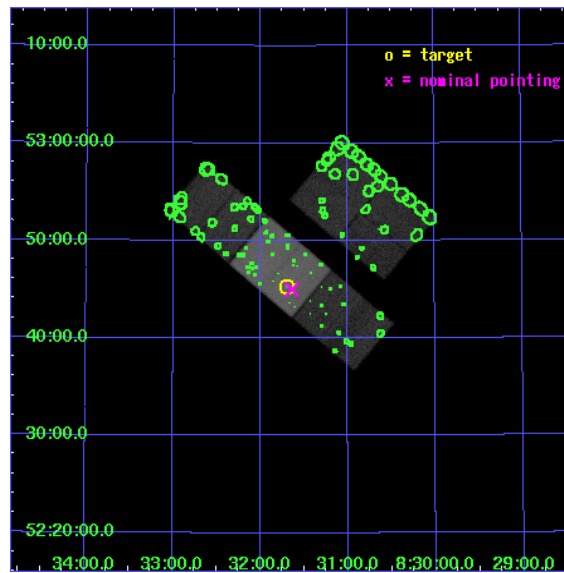
L2 Processing Date : Sep 2 2006

## 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

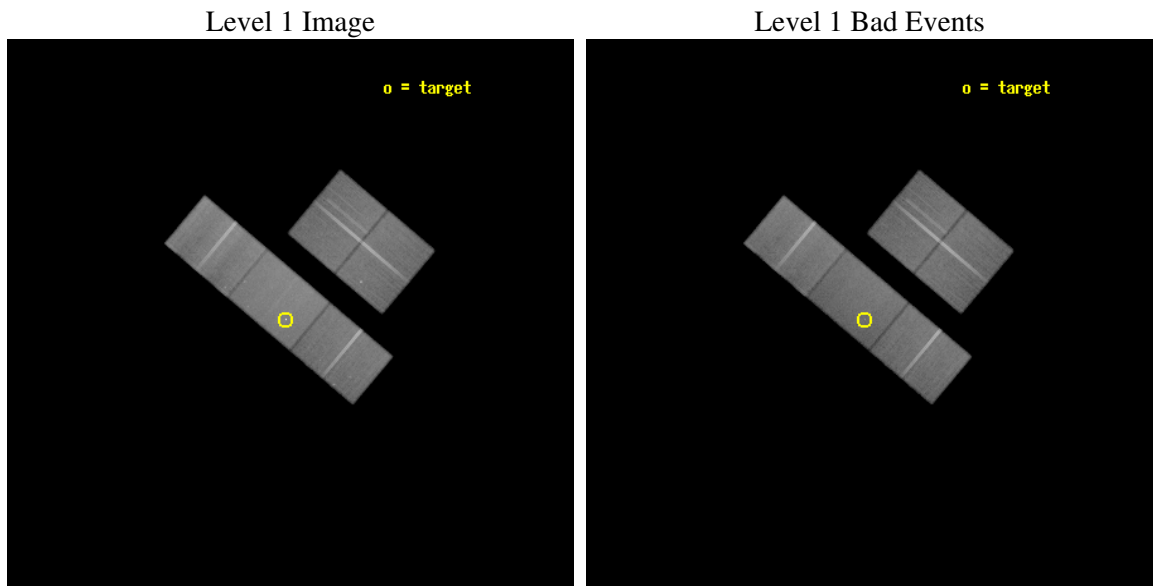
seq_num	700418
obs_id	2979
title	FOLLOW-UP TO CHANDRA GL SURVEY OF GRAVITATIONAL LENSES
observer	Professor Gordon Garmire
object	APM08279+5255
dtcycle	0
cycle	P
ra_targ	127.923333
dec_targ	52.754667
ra_nom	127.91008041201
dec_nom	52.750136487779
roll_nom	220.17979289265
revision	2
ontime	90272.5
livetime	88814.520826118
ontime2	90267.418019667
ontime3	90272.5
ontime6	90272.5
ontime7	90272.5
ontime8	90269.959009826
l2events	417601



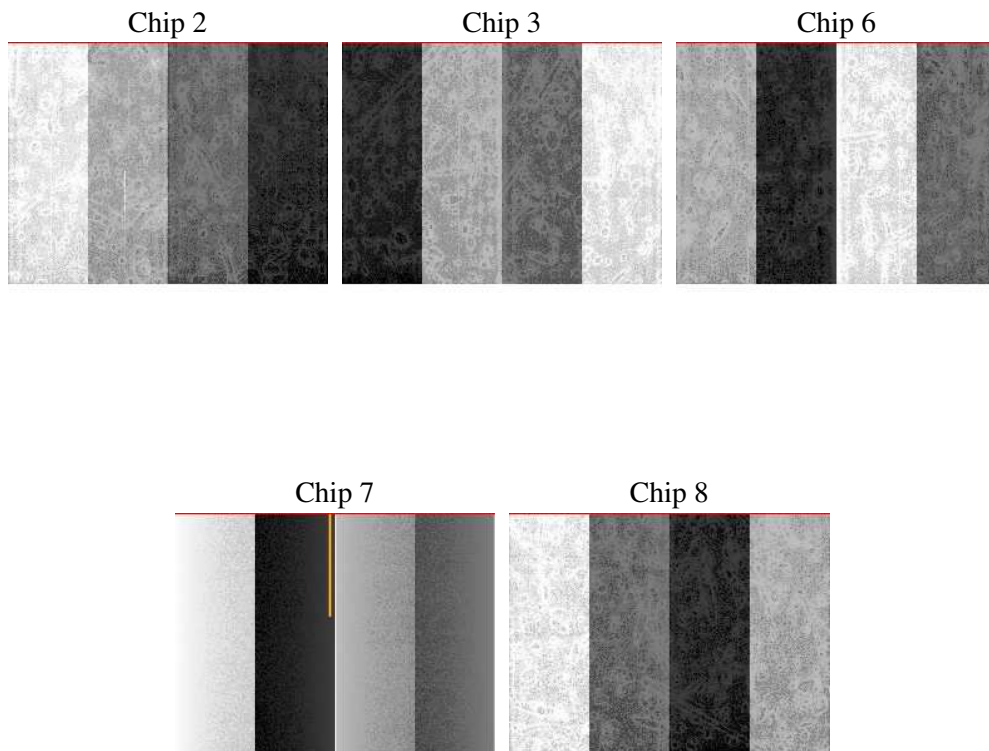
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldbver	3.2.3
date	2006-09-02T20:29:13
revision	2

sched_exp_time	90000.000000
ontime	90277.057889119
ontime2	90271.975908786
ontime3	90277.057889119
ontime6	90277.057889119
ontime7	90277.057889119
ontime8	90274.516898945
l1events	2617142

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	461204	467267	486037	602184	600450
rejected events	407982	414366	431489	370425	483472
rejected %	88%	88%	88%	61%	80%

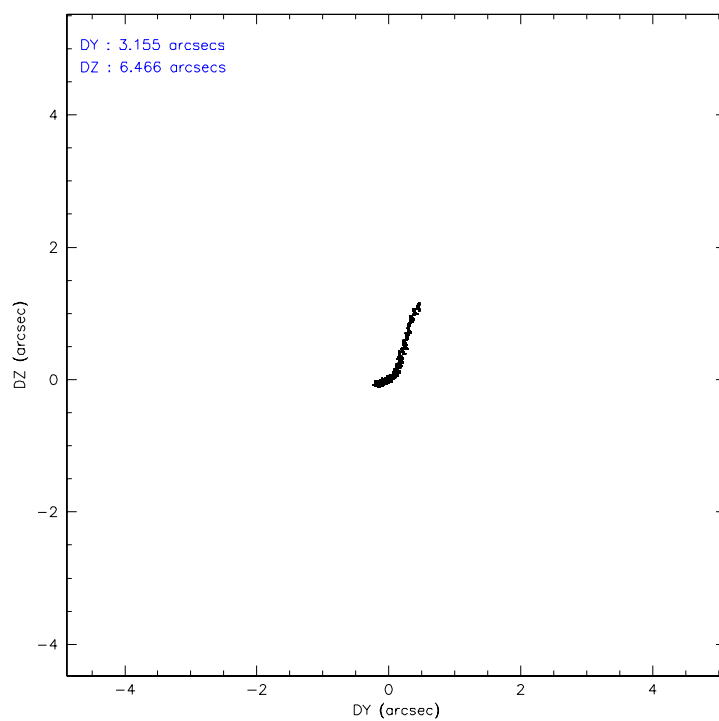
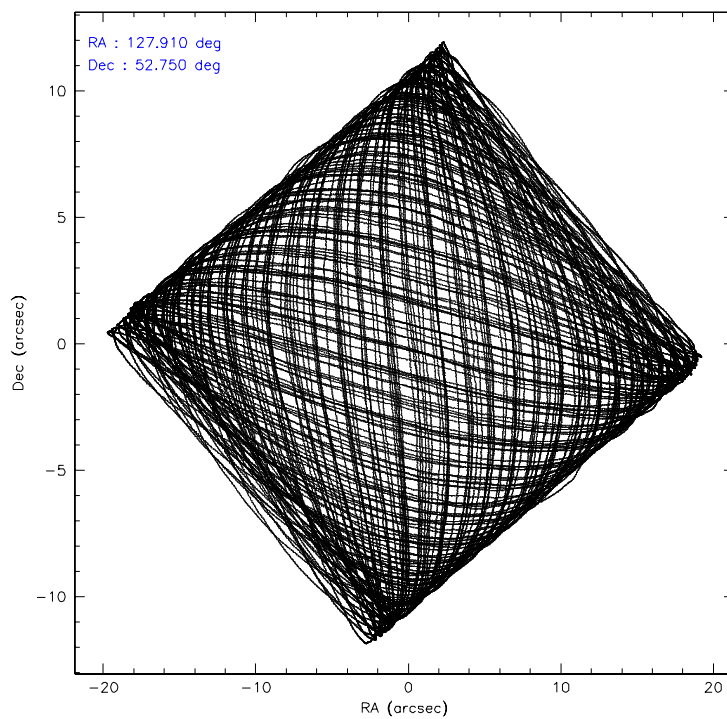
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	22321	21672	21251	14608	36200
	4%	4%	4%	2%	6%
grade 1 events	163	205	202	381	300
	0%	0%	0%	0%	0%
grade 2 events	11334	10610	11032	58795	25857
	2%	2%	2%	9%	4%
grade 3 events	5199	5456	5881	12298	12369
	1%	1%	1%	2%	2%
grade 4 events	5238	5490	5662	11920	11527
	1%	1%	1%	1%	1%
grade 5 events	15584	18391	20220	38611	25347
	3%	3%	4%	6%	4%
grade 6 events	9132	9678	10724	134153	31027
	1%	2%	2%	22%	5%
grade 7 events	392233	395765	411065	331418	457823
	85%	84%	84%	55%	76%

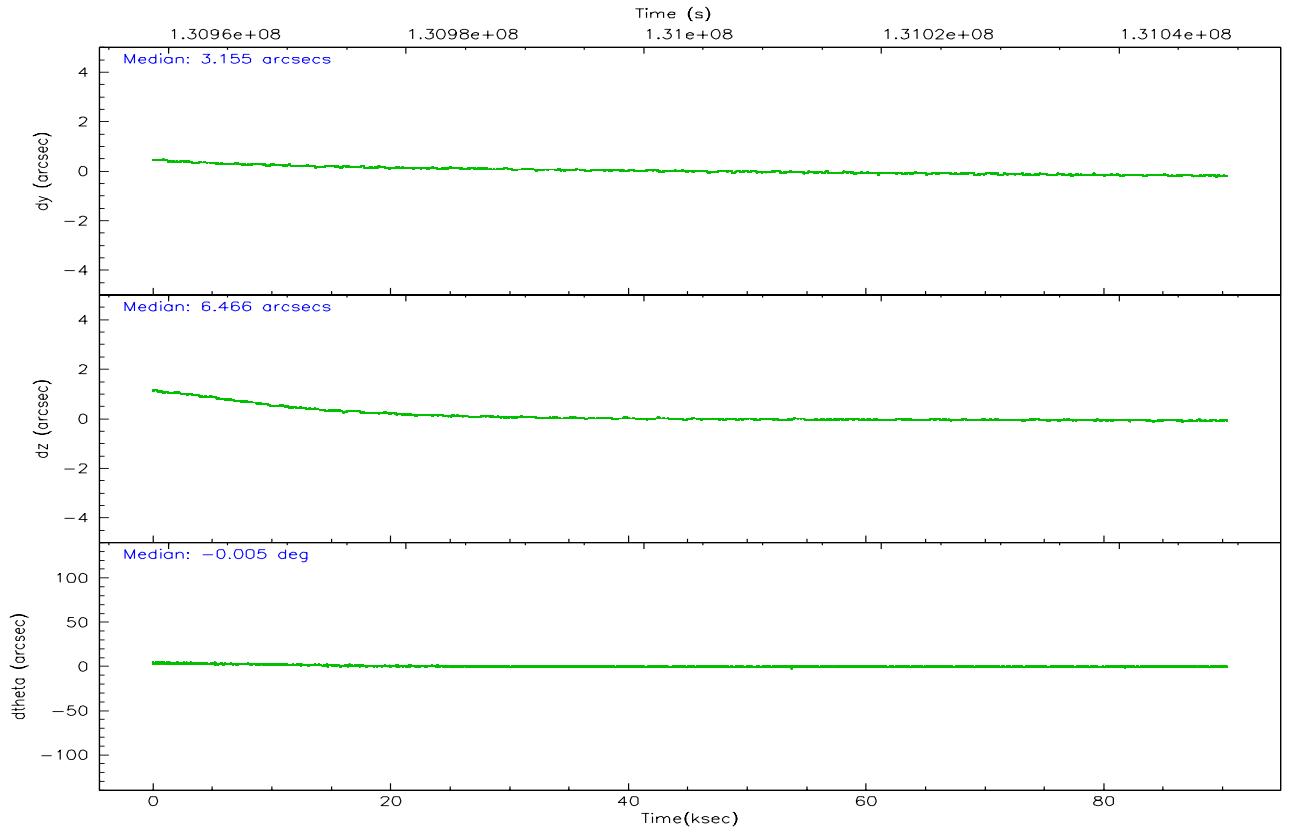
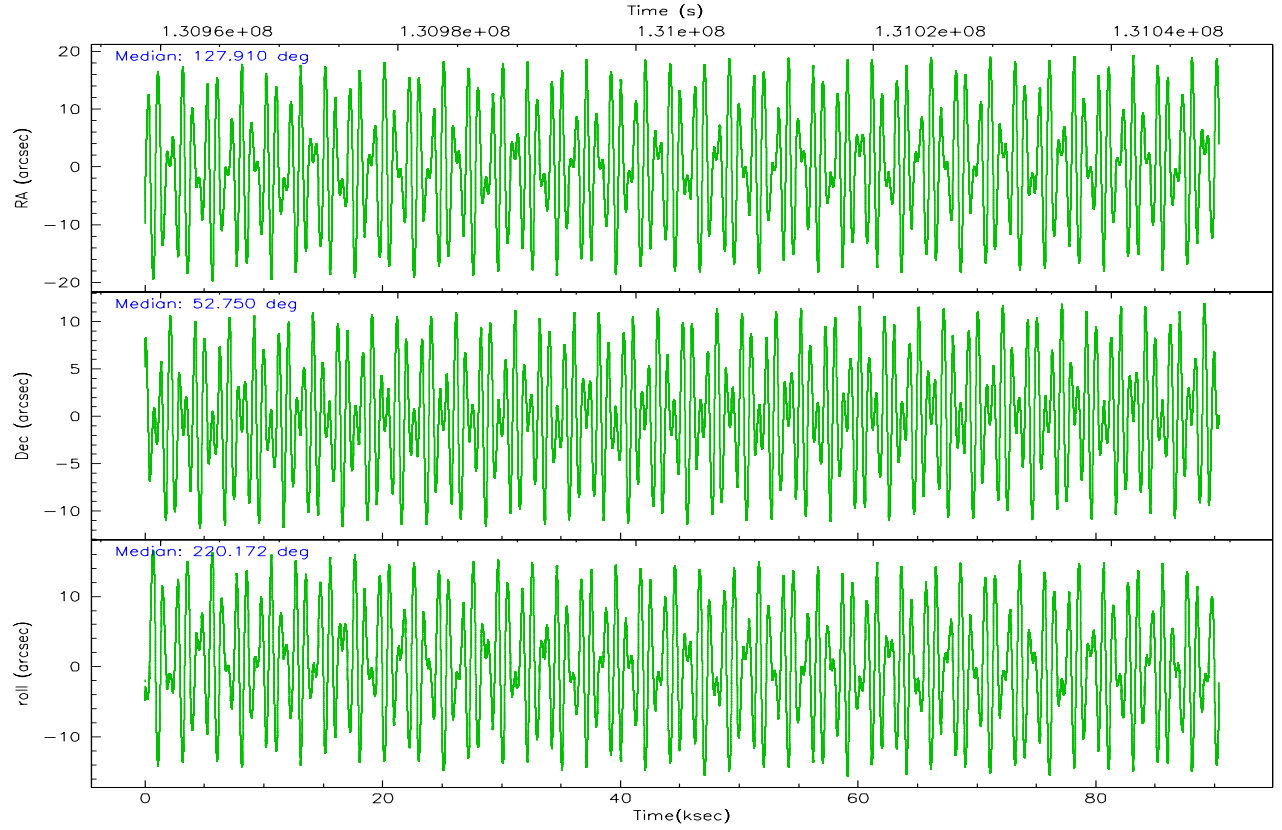


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	127.924828	127.9100804120112	Subarray start row	256	256
Pointing Dec	52.775884	52.75013648777851	Subarray row count	768	768
Pointing Roll	220.011429	220.1797928926549	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	2.5
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	130959085.184000	130958029.87732			
Observation start date	2002-02-24T17:30:21	2002-02-24T17:13:49			
Observation end time	131049085.184000	131049945.73104			
Observation end date	2002-02-25T18:30:21	2002-02-25T18:45:45			
Read mode	TIMED	TIMED			

## 2.3 Aspect



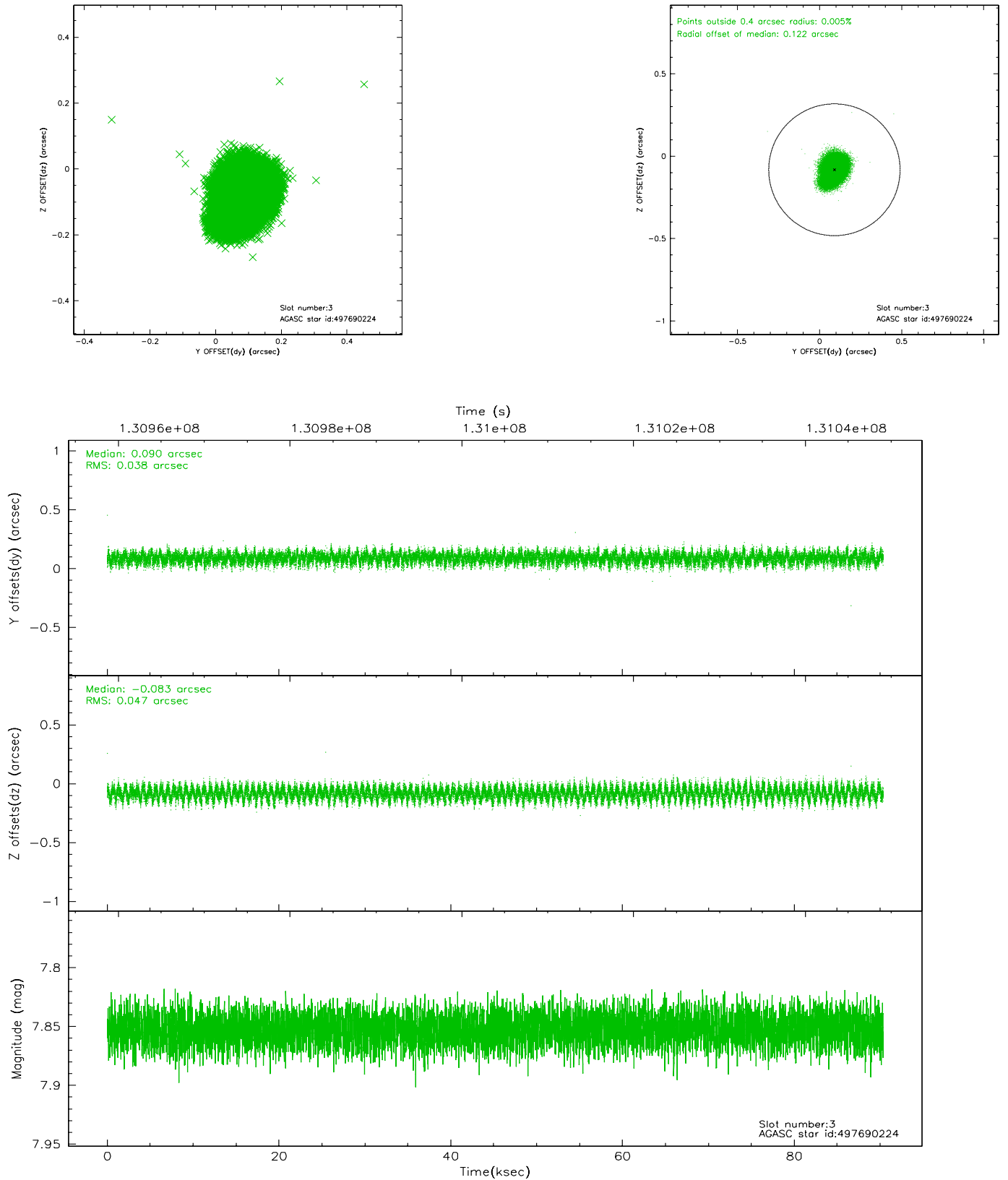


### Slot Statistics

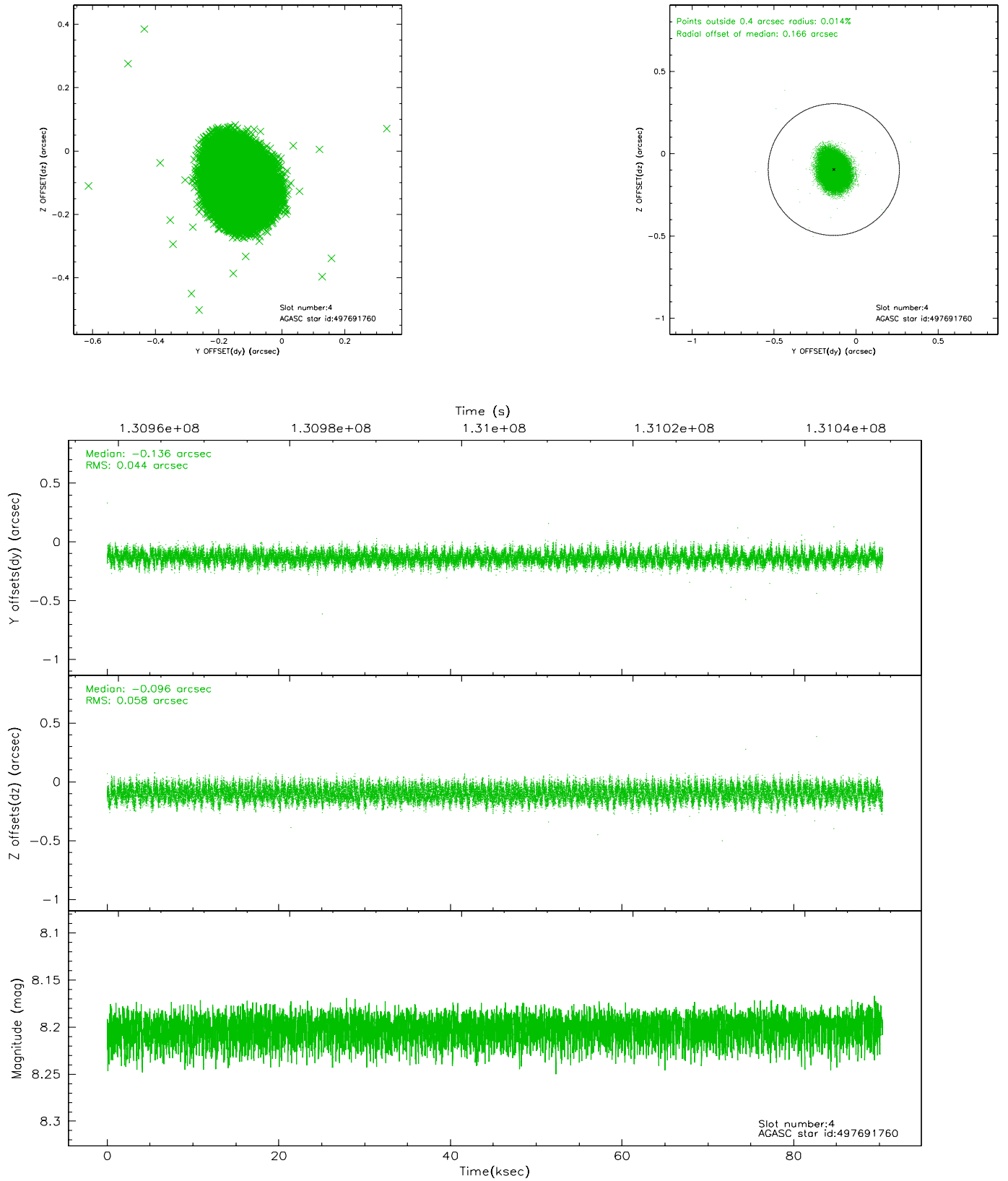
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	22044	-0.019	0.028	0.009	0.022	0.000000	0.000000	-755.82	-1727.74
1	FID	ACIS-S-4	7.20	22045	-0.055	0.001	0.007	0.011	0.000000	0.000000	2157.43	180.84
2	FID	ACIS-S-5	7.24	22045	0.042	-0.021	0.010	0.024	0.000000	0.000000	-1808.74	174.35
3	GUIDE	497690224	7.85	44082	0.090	-0.083	0.065	0.104	127.850163	53.122165	-678.28	-1058.83
4	GUIDE	497691760	8.20	44082	-0.136	-0.096	0.079	0.122	127.920527	53.560560	-1809.36	-2169.95
5	GUIDE	497811928	8.70	44072	-0.074	0.031	0.084	0.136	129.272866	52.607871	-1886.87	2336.49
6	GUIDE	497694904	9.26	44064	0.102	0.016	0.071	0.118	127.234002	52.830882	1018.59	-1123.12
7	GUIDE	497691032	9.37	44065	0.012	0.134	0.083	0.133	128.584665	53.177597	-2024.71	-197.54

## 2.4 Star Slots

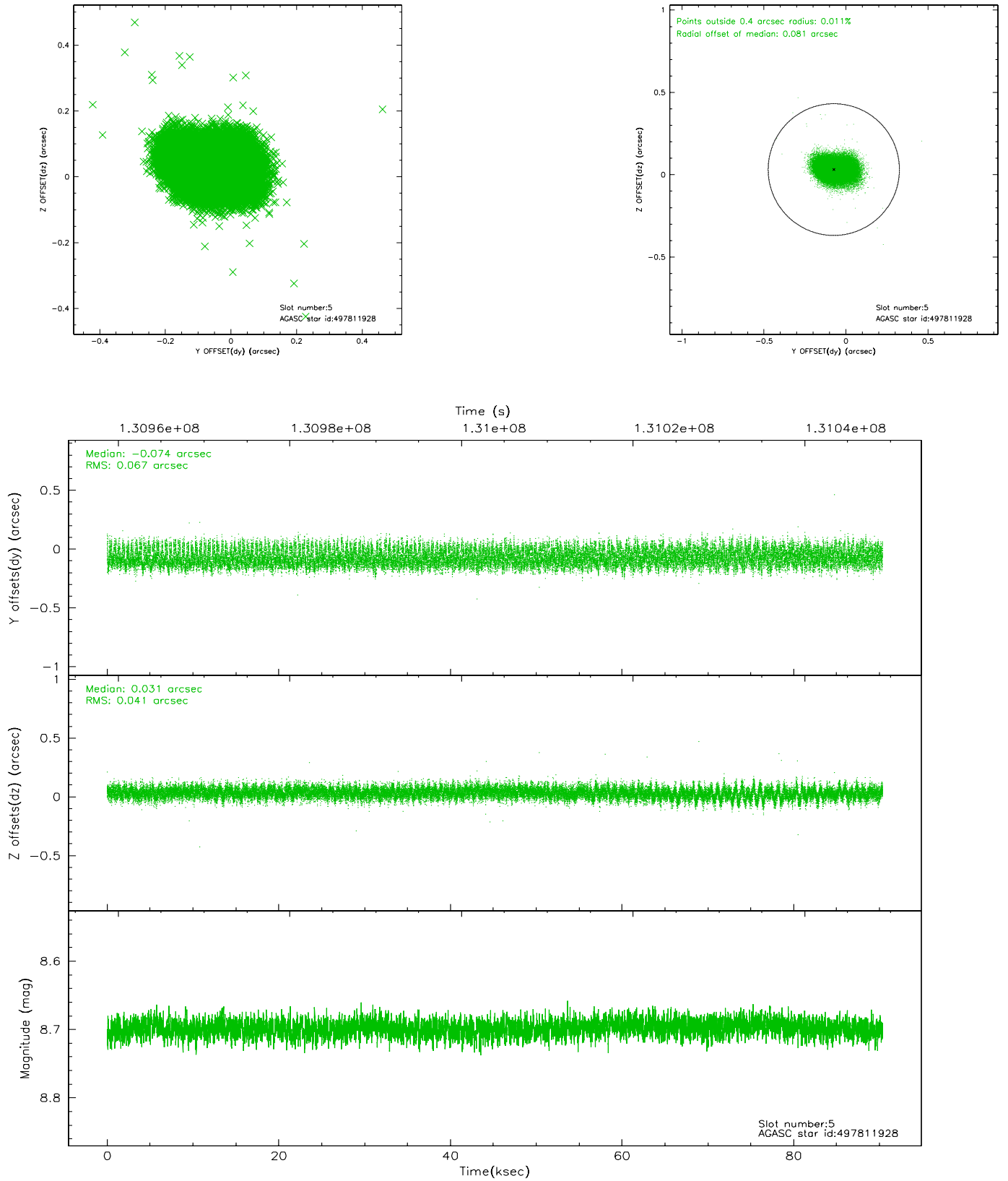
### 2.4.1 Slot 3



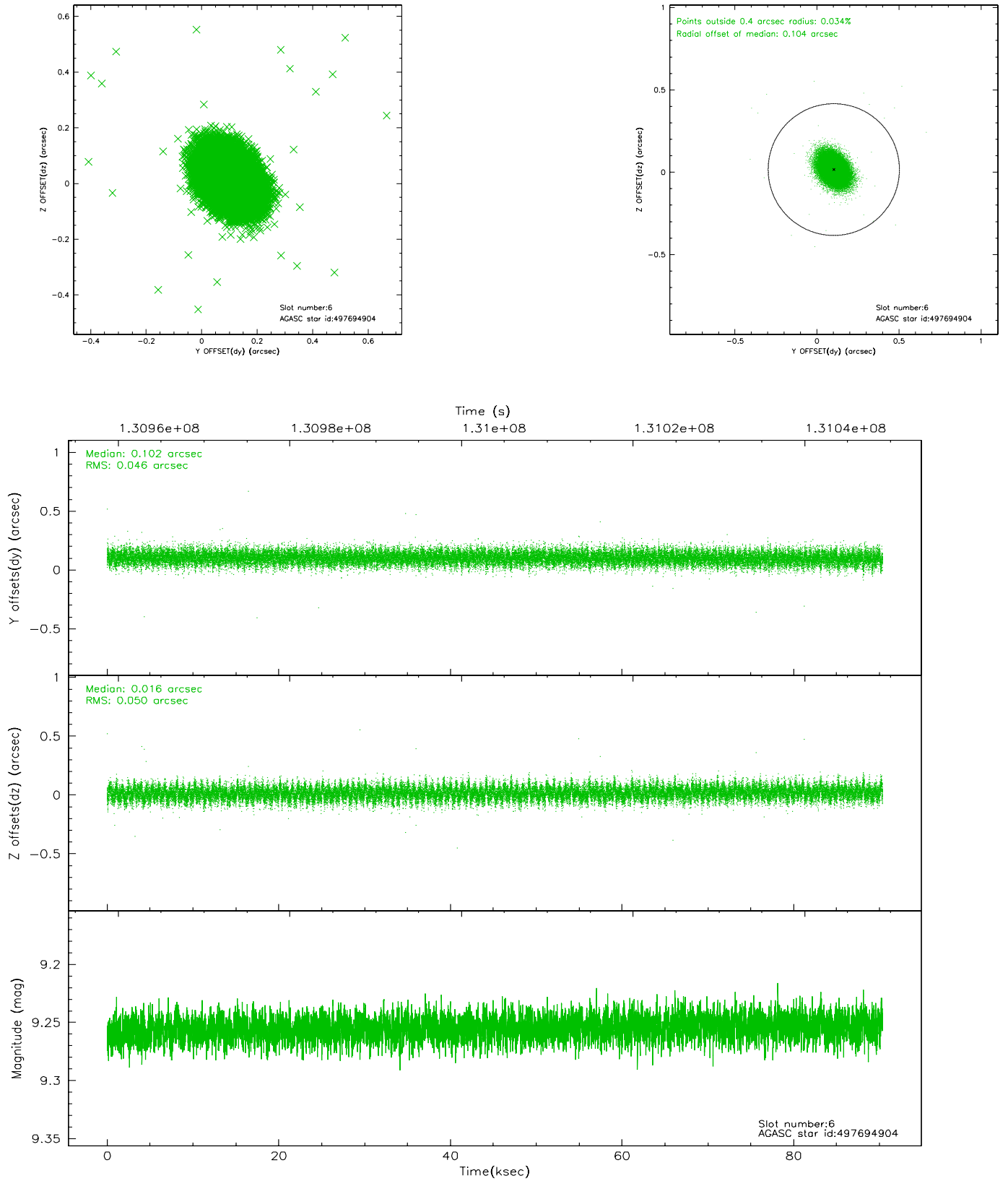
## 2.4.2 Slot 4



### 2.4.3 Slot 5

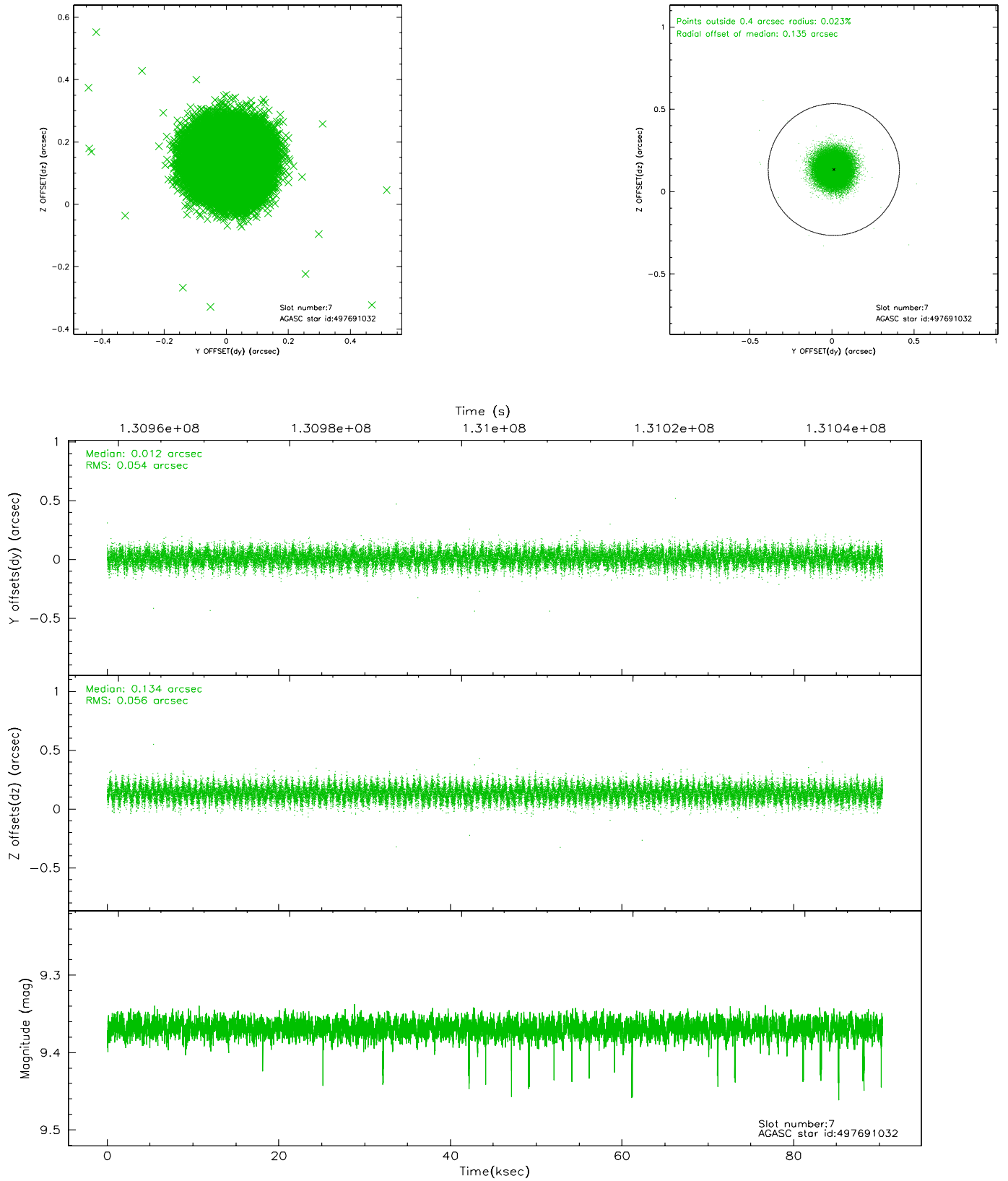


## 2.4.4 Slot 6



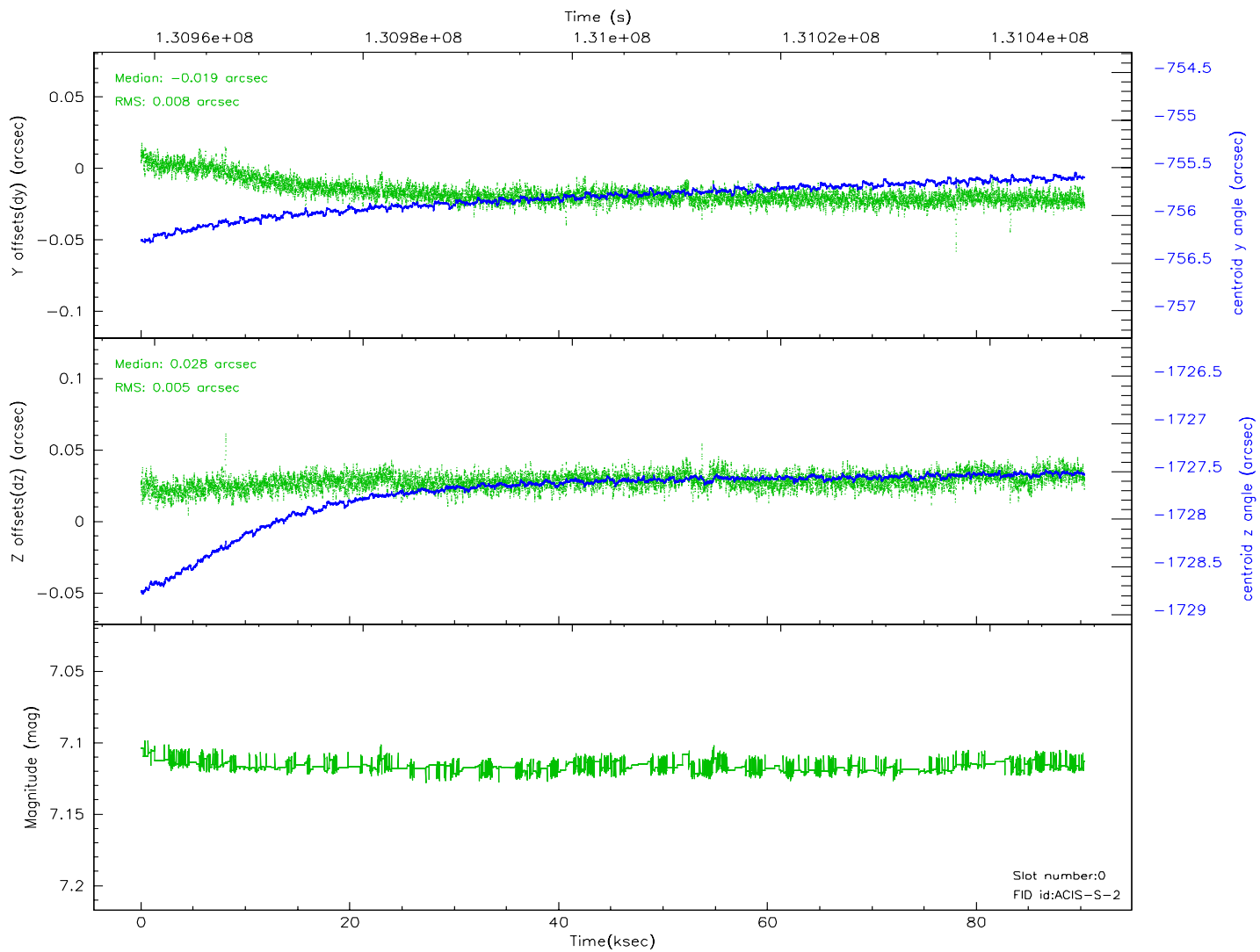
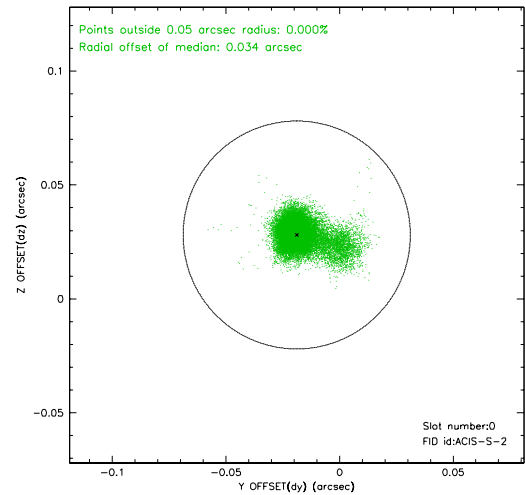
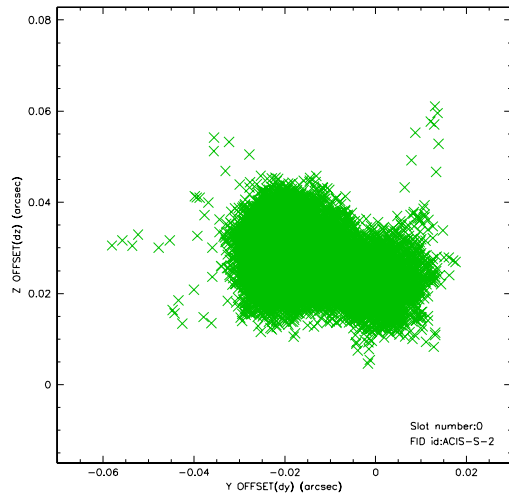


## 2.4.5 Slot 7

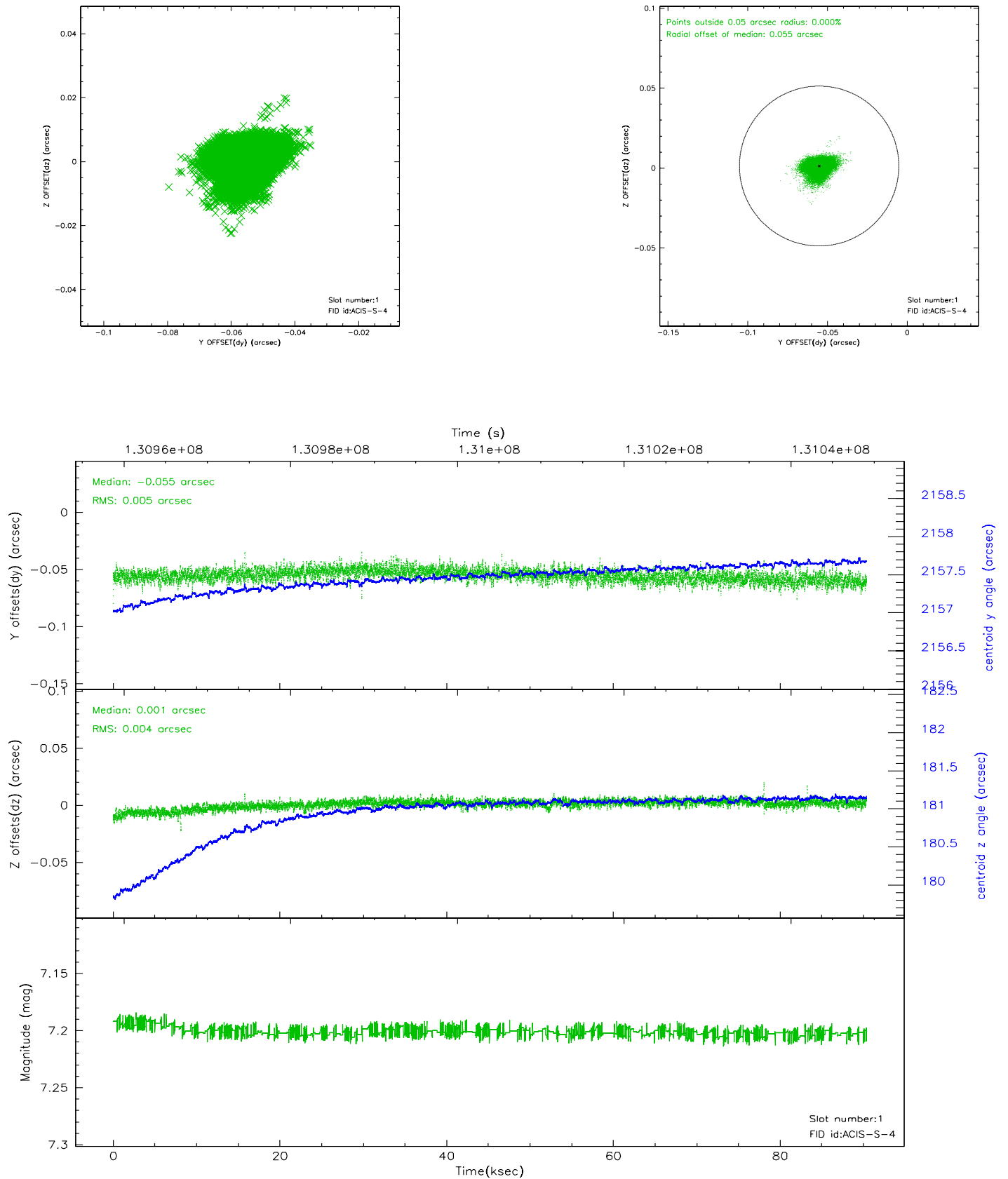


## 2.5 FID Slots

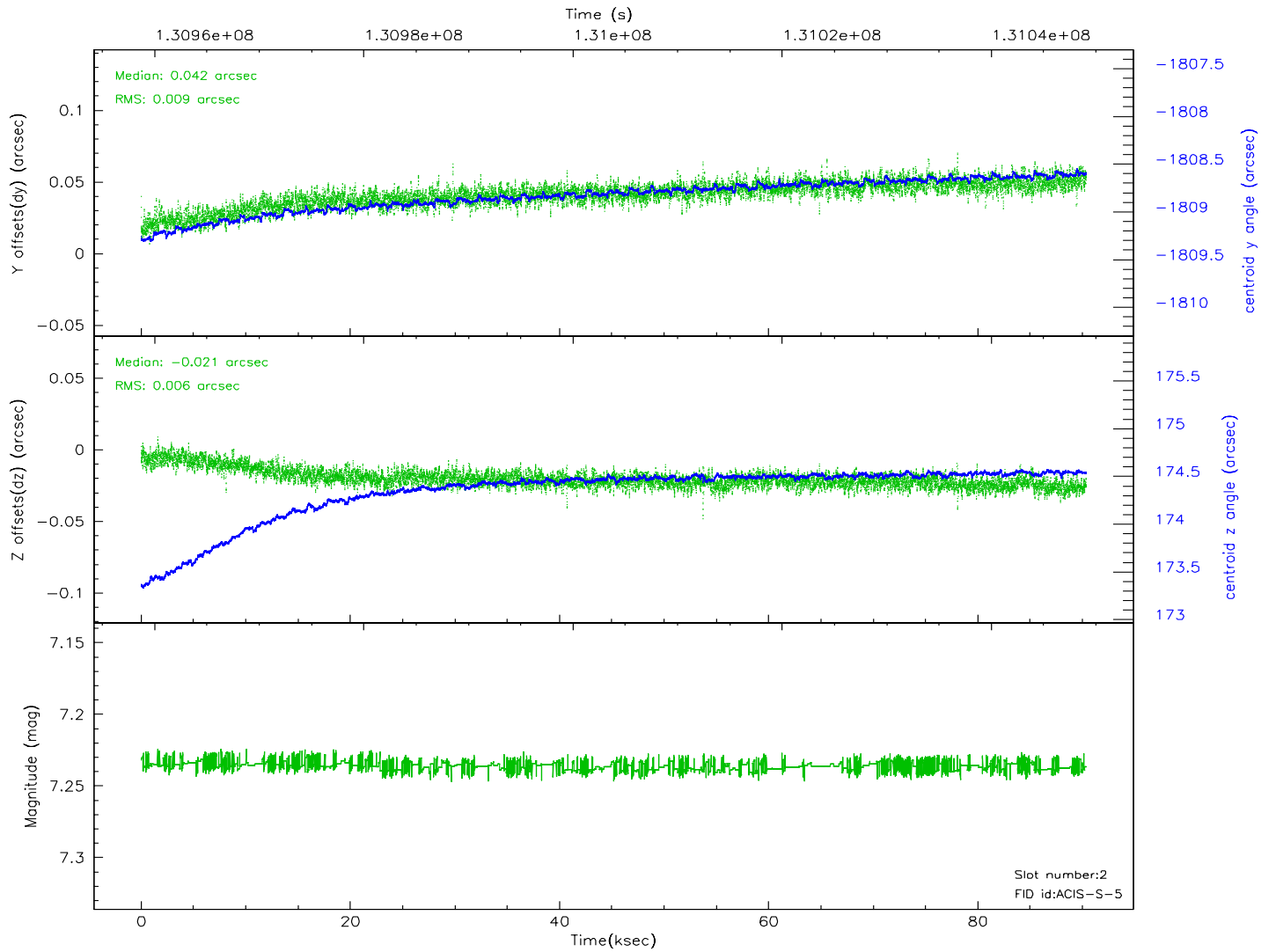
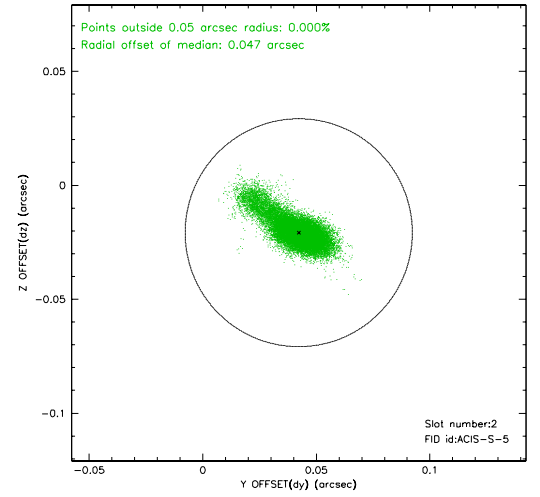
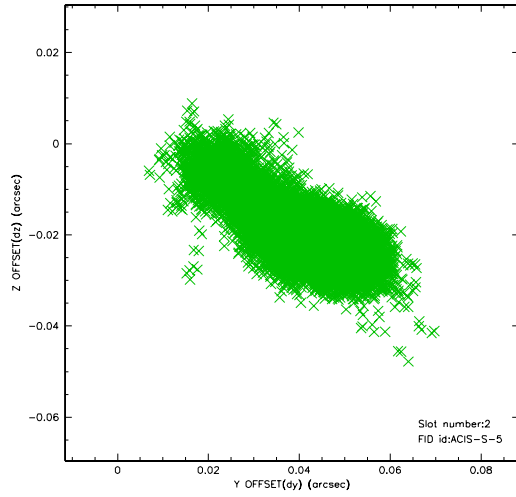
### 2.5.1 Slot 0



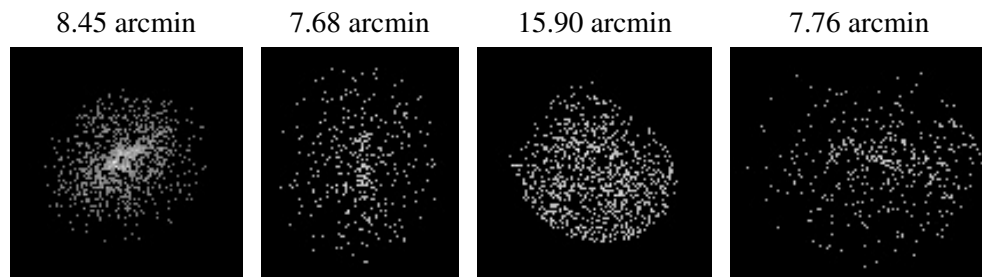
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	90.269

### A.2 Comments