

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3710 - L2 Version 001  
Chandra X-Ray Center

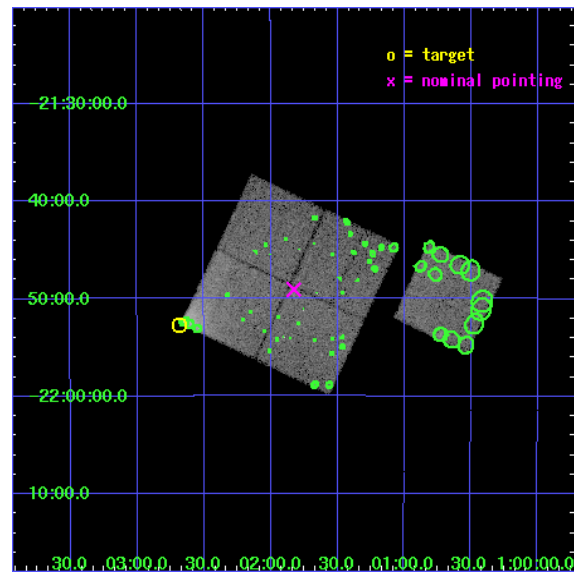
L2 Processing Date : Sep 21 2006

## 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

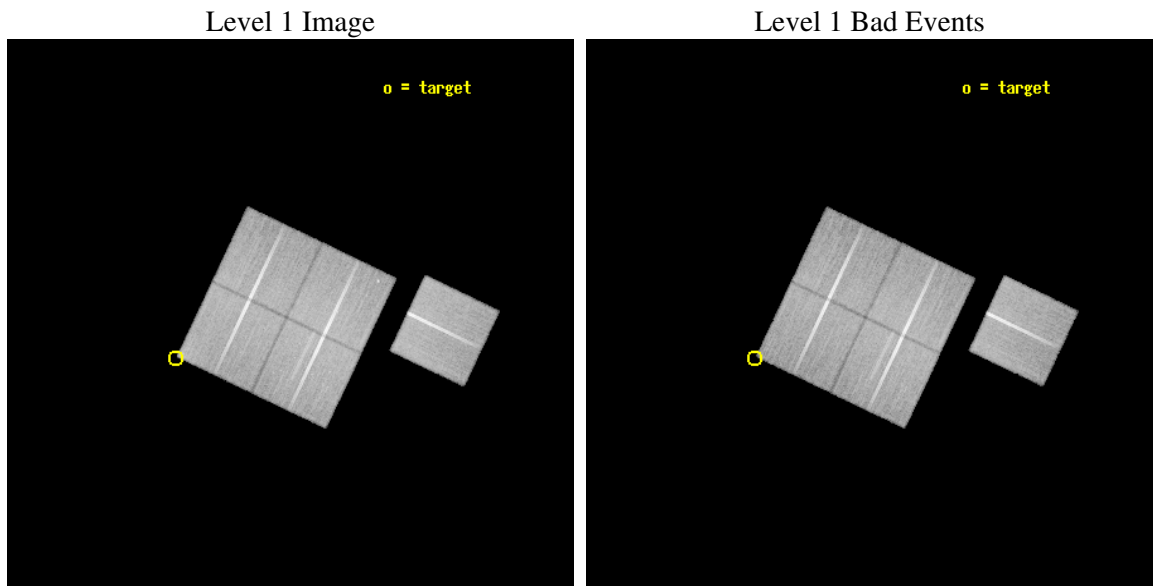
seq_num	800183
obs_id	3710
title	DEEP X-RAY IMAGE OF A133
observer	Dr. Stephen Murray
object	A133 OFFSET
dtcycle	0
cycle	P
ra_targ	15.67
dec_targ	-21.878
ra_nom	15.456633719756
dec_nom	-21.817556141683
roll_nom	115.47909951559
revision	2
ontime	45182.458922982
livetime	44592.116834311
ontime0	45185.59991312
ontime1	45179.317992687
ontime2	45179.317992657
ontime3	45182.458922982
ontime6	45176.177022457
l2events	117105



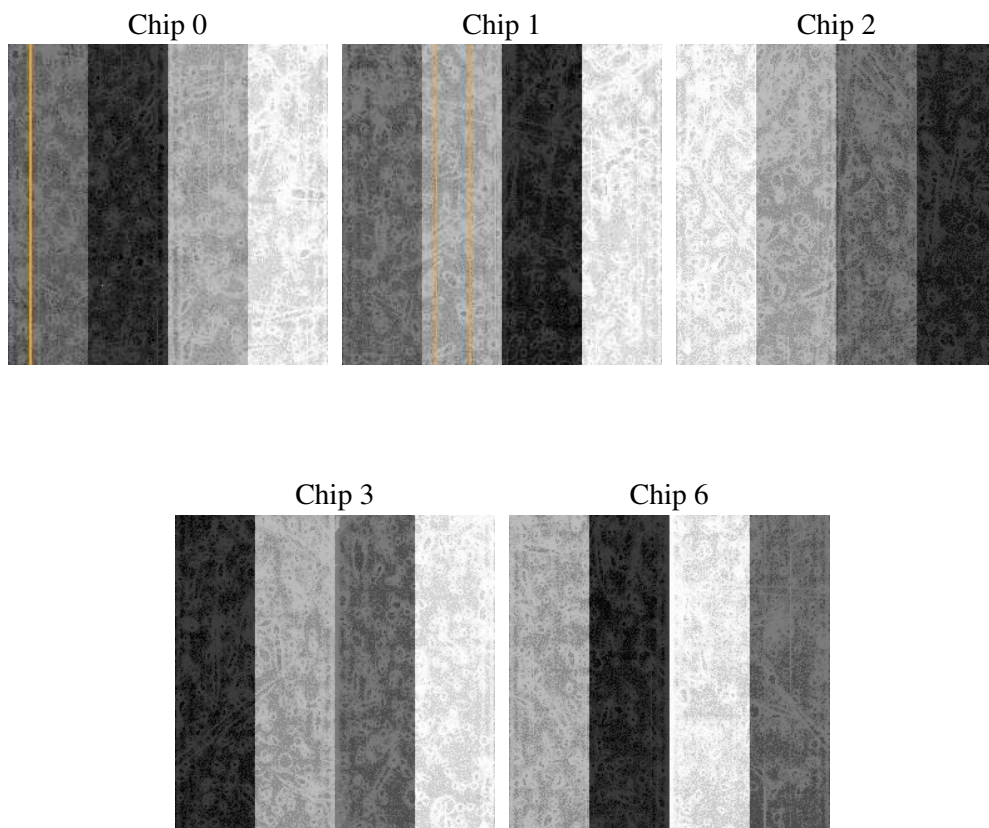
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-21T05:05:40
revision	2

sched_exp_time	45000.000000
ontime	45208.426813215
ontime0	45214.708793521
ontime1	45208.426873088
ontime2	45208.426873058
ontime3	45208.426813215
ontime6	45205.285932779
l1events	1267252

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	234608	250881	264230	263375	254158
rejected events	209917	210618	239169	239071	229124
rejected %	89%	83%	90%	90%	90%

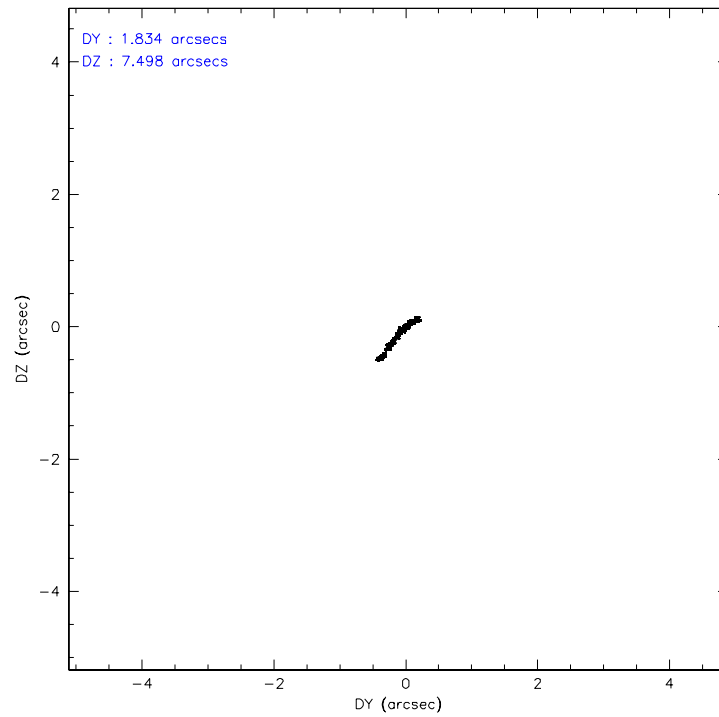
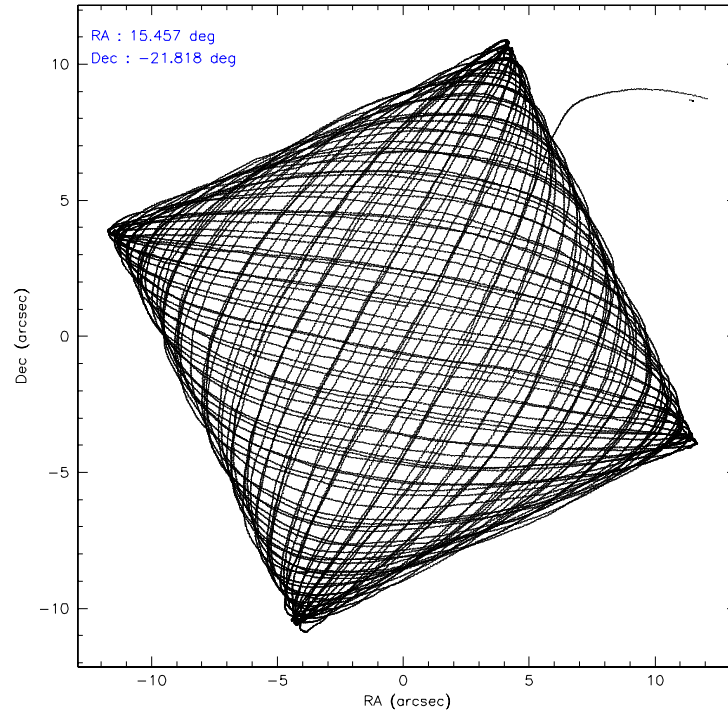
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8694	20588	9473	9052	8823
	3%	8%	3%	3%	3%
grade 1 events	109	148	103	110	97
	0%	0%	0%	0%	0%
grade 2 events	5648	7080	5781	5108	5262
	2%	2%	2%	1%	2%
grade 3 events	2937	3468	2659	2722	2934
	1%	1%	1%	1%	1%
grade 4 events	2668	3485	2627	2726	2946
	1%	1%	0%	1%	1%
grade 5 events	7770	8931	7690	8950	9192
	3%	3%	2%	3%	3%
grade 6 events	4767	5662	4540	4708	5093
	2%	2%	1%	1%	2%
grade 7 events	202015	201519	231357	229999	219811
	86%	80%	87%	87%	86%

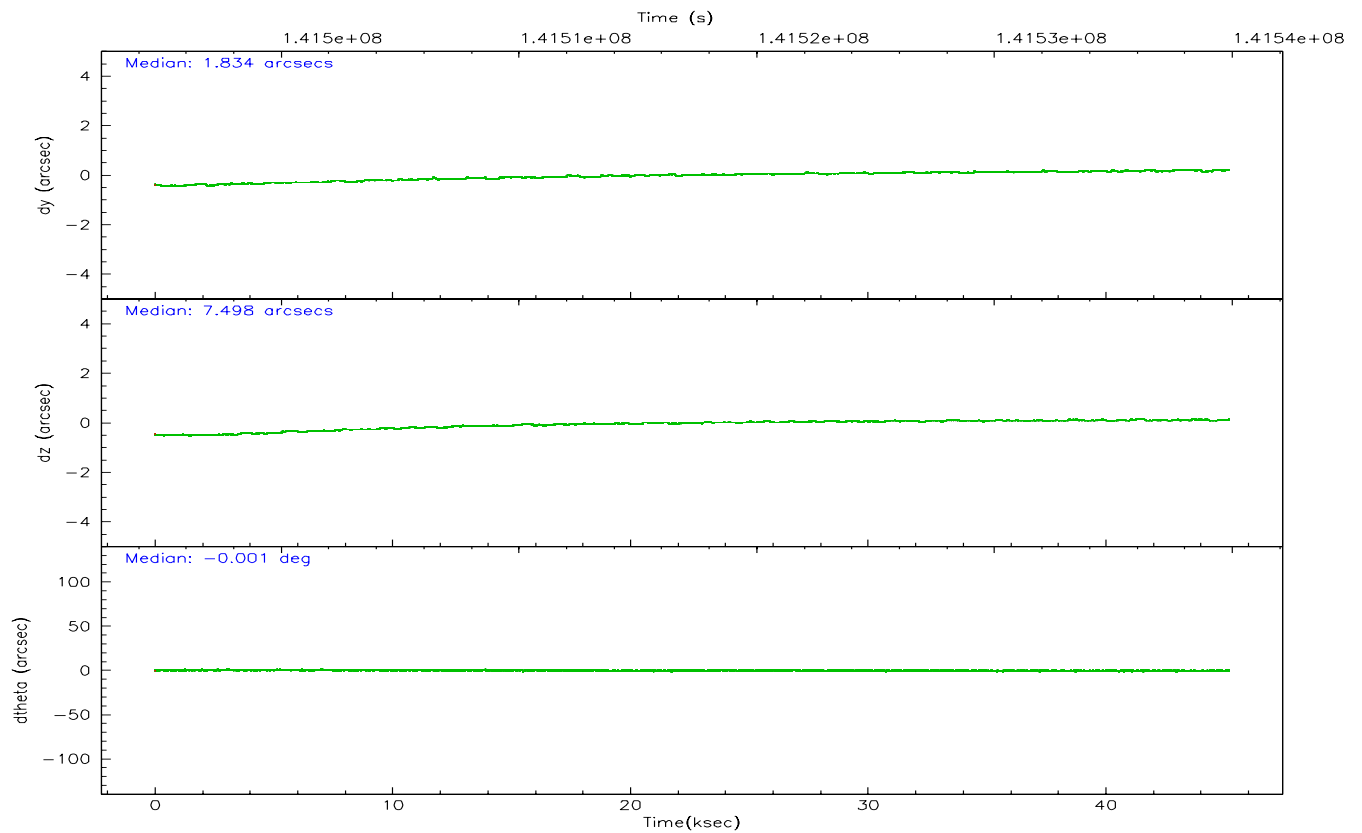
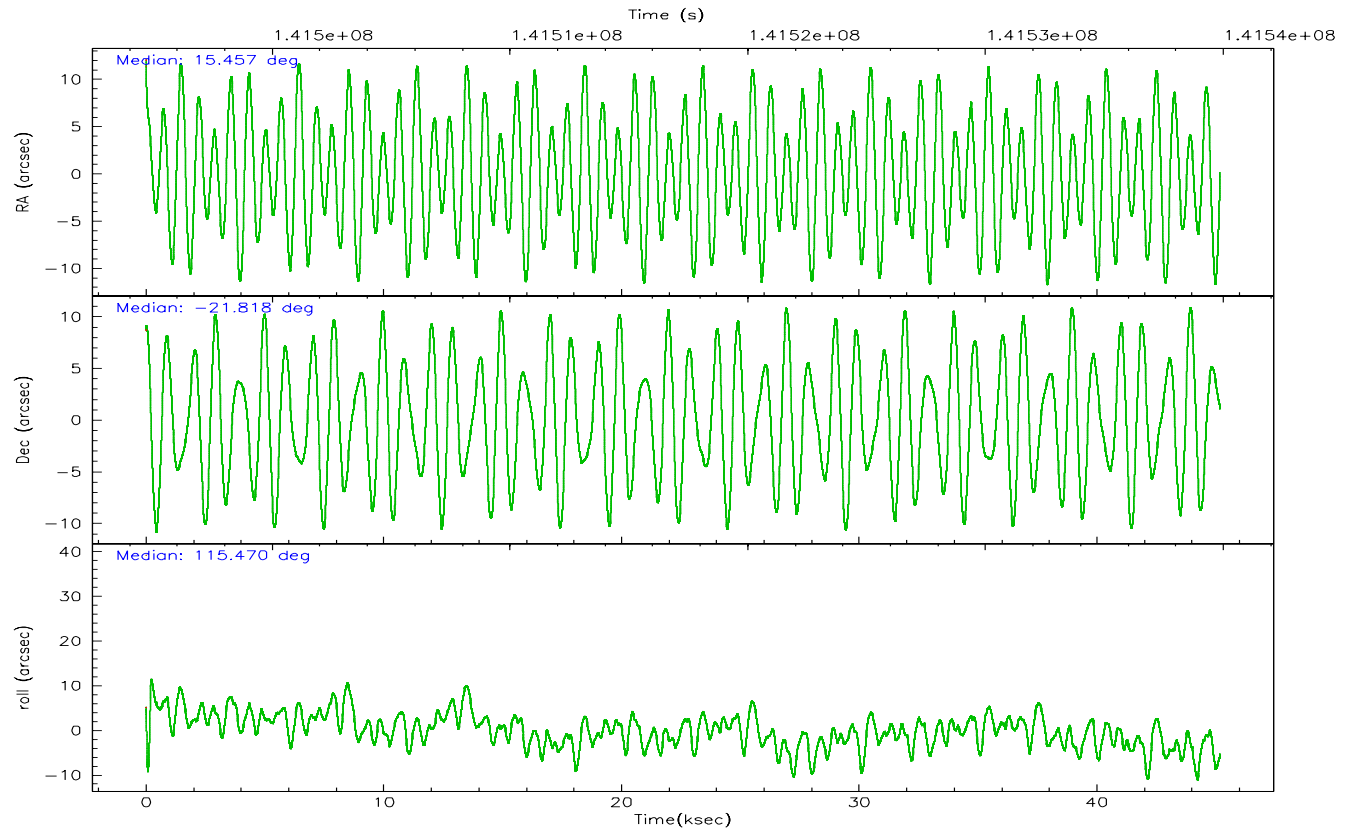


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	15.481004	15.45663371975595	Subarray requested	NONE	NONE
Pointing Dec	-21.833022	-21.81755614168275	Alternating exposures requested	N	N
Pointing Roll	115.279468	115.479099515588	Primary exposure time	0.000000	3.1
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	141494877.184000	141493870.5186			
Observation start date	2002-06-26T16:06:53	2002-06-26T15:51:10			
Observation end time	141539877.184000	141540602.83301			
Observation end date	2002-06-27T04:36:53	2002-06-27T04:50:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect



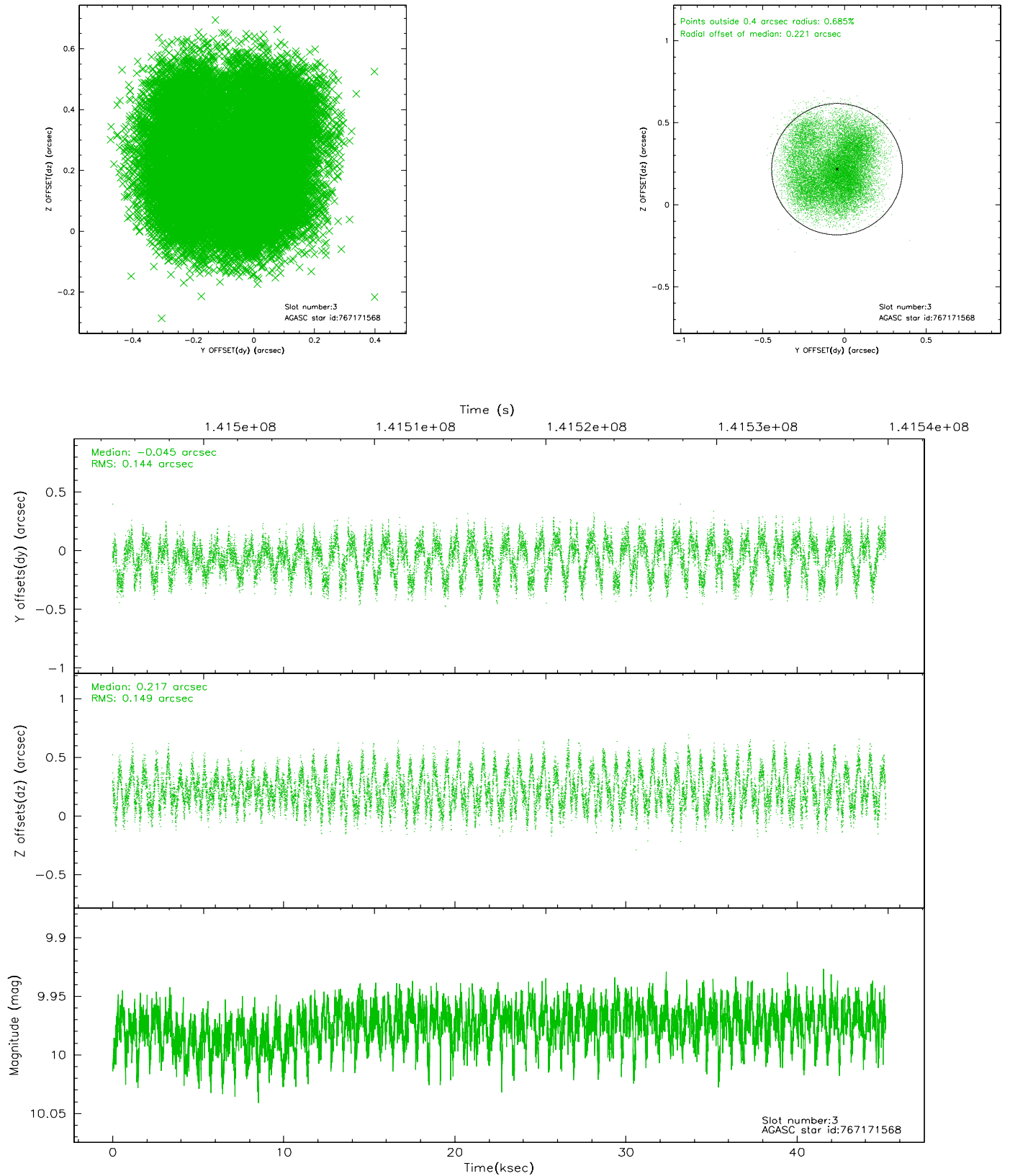


### Slot Statistics

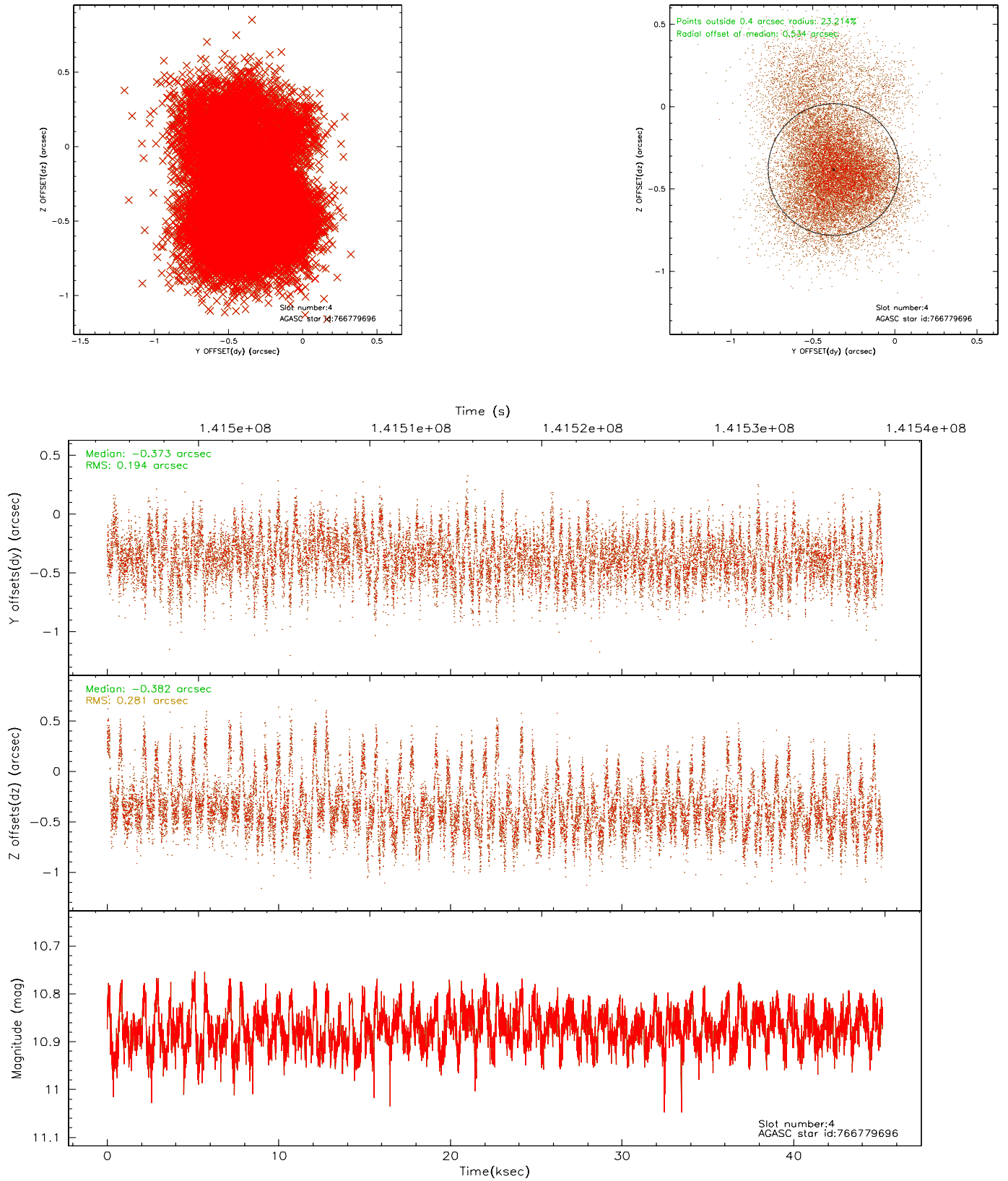
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	11022	-0.030	0.063	0.018	0.026	0.000000	0.000000	937.98	-830.79
1	FID	ACIS-I-5	7.24	11023	-0.021	0.038	0.015	0.021	0.000000	0.000000	-1810.08	1066.74
2	FID	ACIS-I-6	7.26	11023	-0.042	-0.032	0.015	0.021	0.000000	0.000000	403.57	1711.12
3	GUIDE	767171568	9.97	22035	-0.045	0.217	0.232	0.337	16.035890	-22.108834	-1690.31	-1247.11
4	BAD	766779696	10.87	20957	-0.373	-0.382	0.344	0.643	15.056781	-21.415428	1964.66	645.23
5	GUIDE	766783464	9.20	22034	-0.075	-0.314	0.089	0.140	15.041422	-22.197983	-563.80	1887.50
6	GUIDE	766777184	7.87	22040	0.406	0.240	0.093	0.138	15.615560	-21.610598	532.45	-748.18
7	GUIDE	766779344	10.03	22009	-0.269	-0.149	0.130	0.207	15.380905	-21.452302	1383.02	-280.93

## 2.4 Star Slots

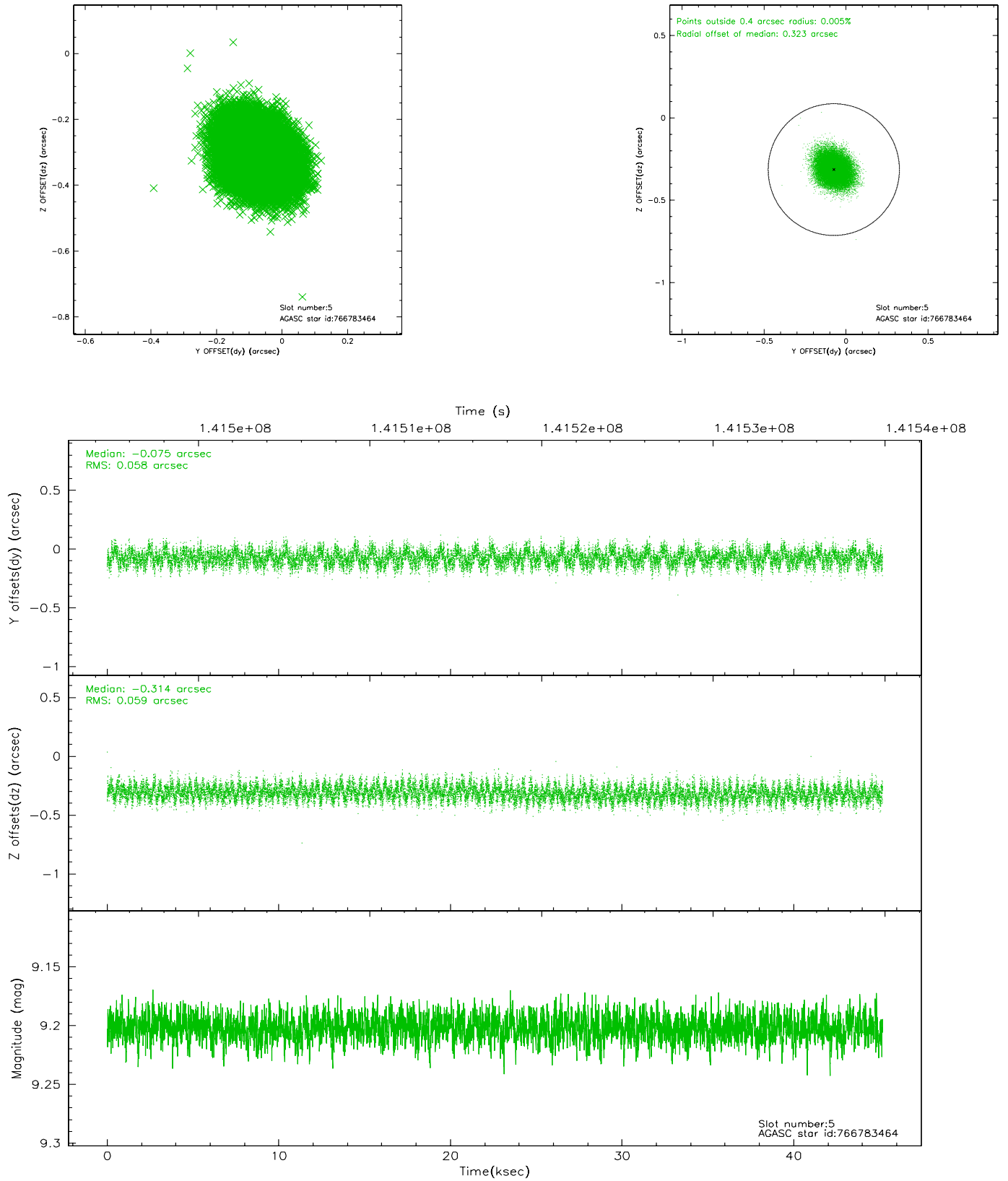
### 2.4.1 Slot 3



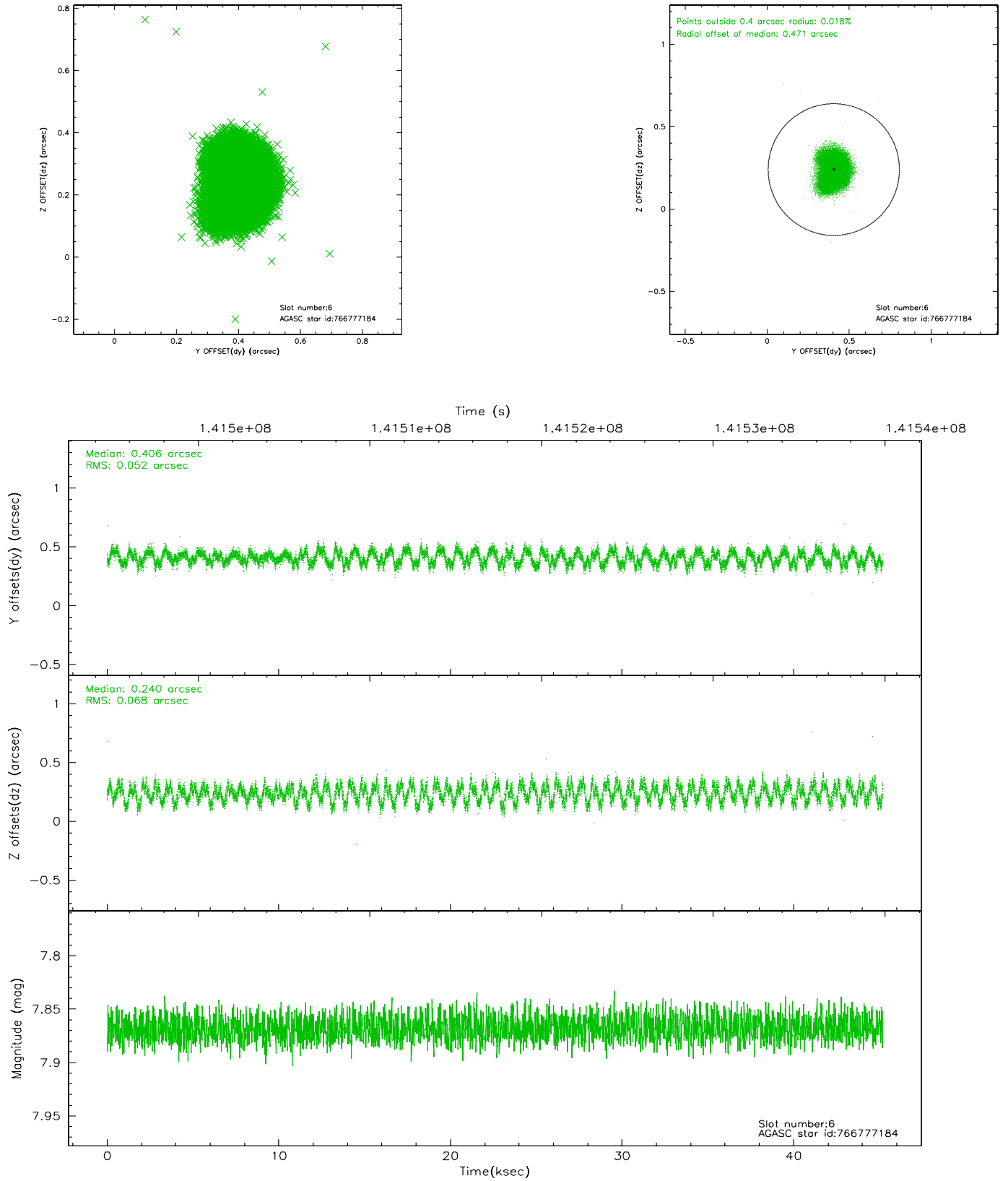
## 2.4.2 Slot 4



### 2.4.3 Slot 5

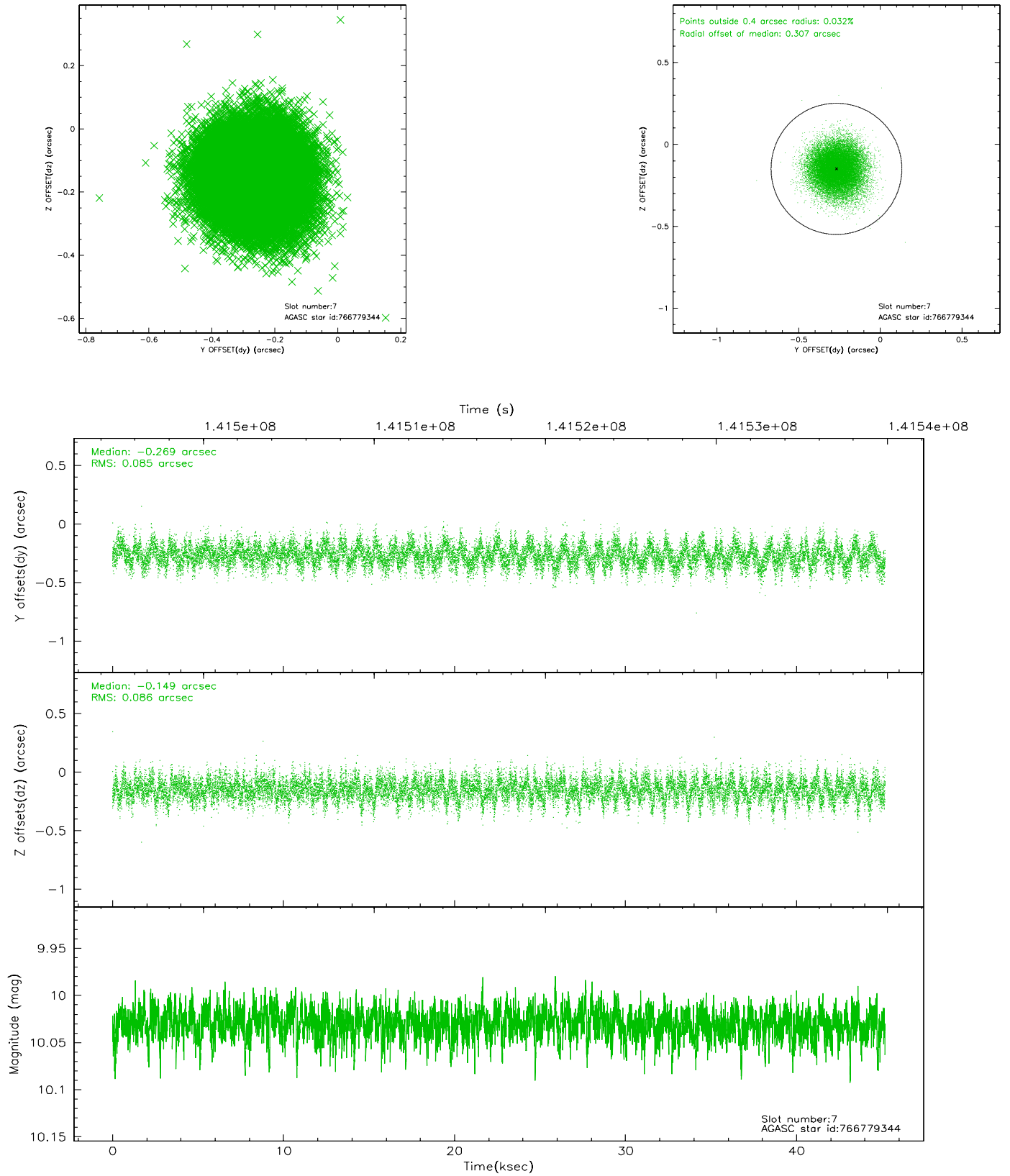


## 2.4.4 Slot 6



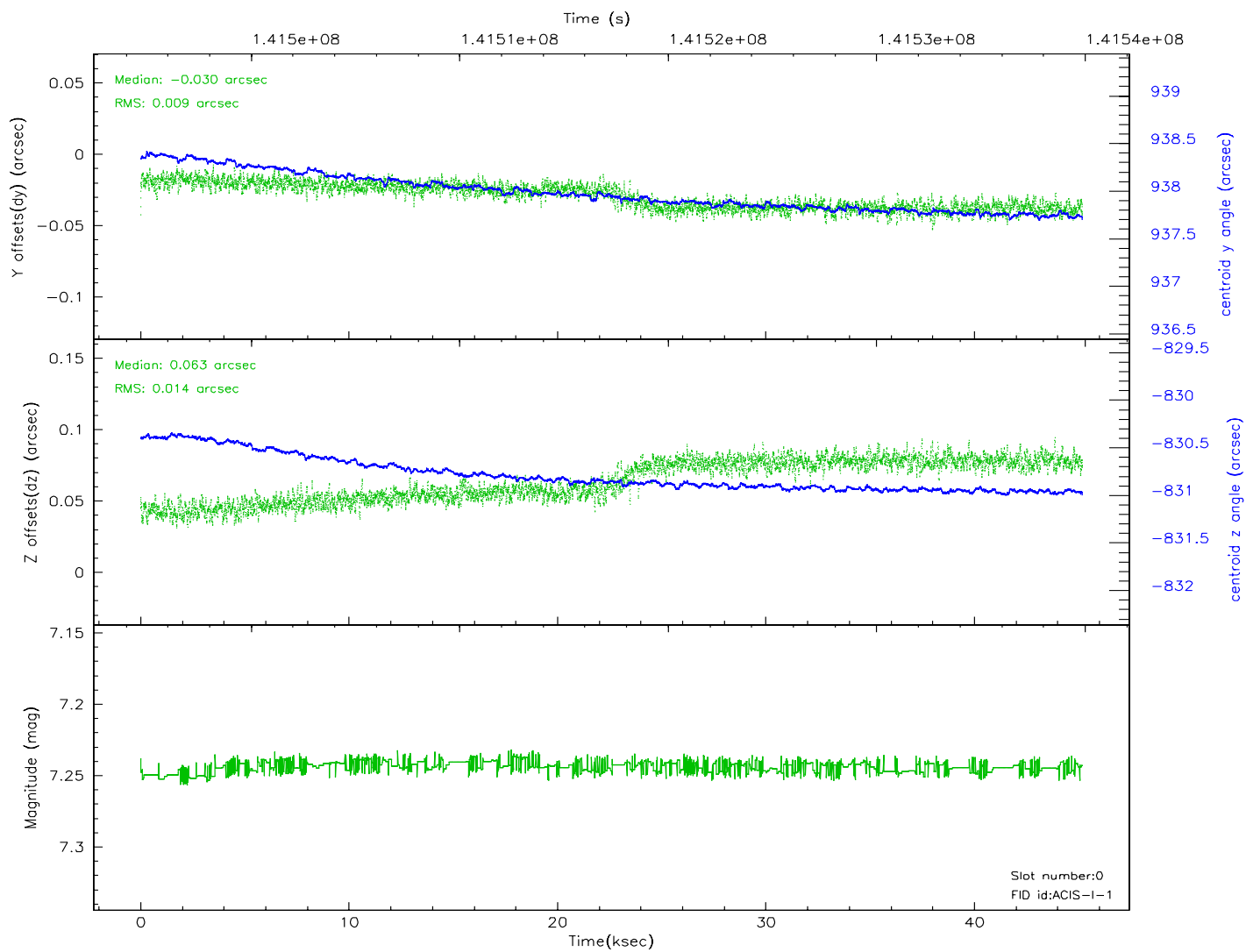
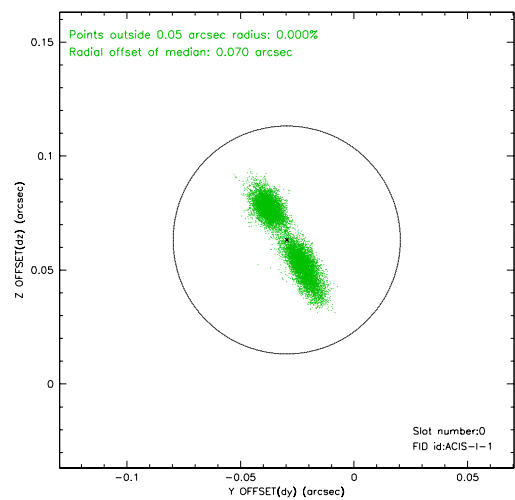
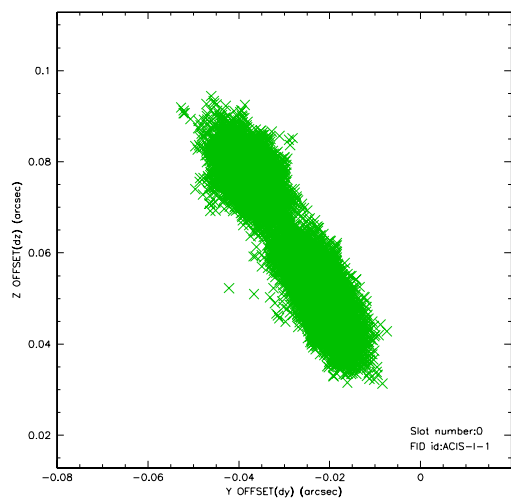


## 2.4.5 Slot 7

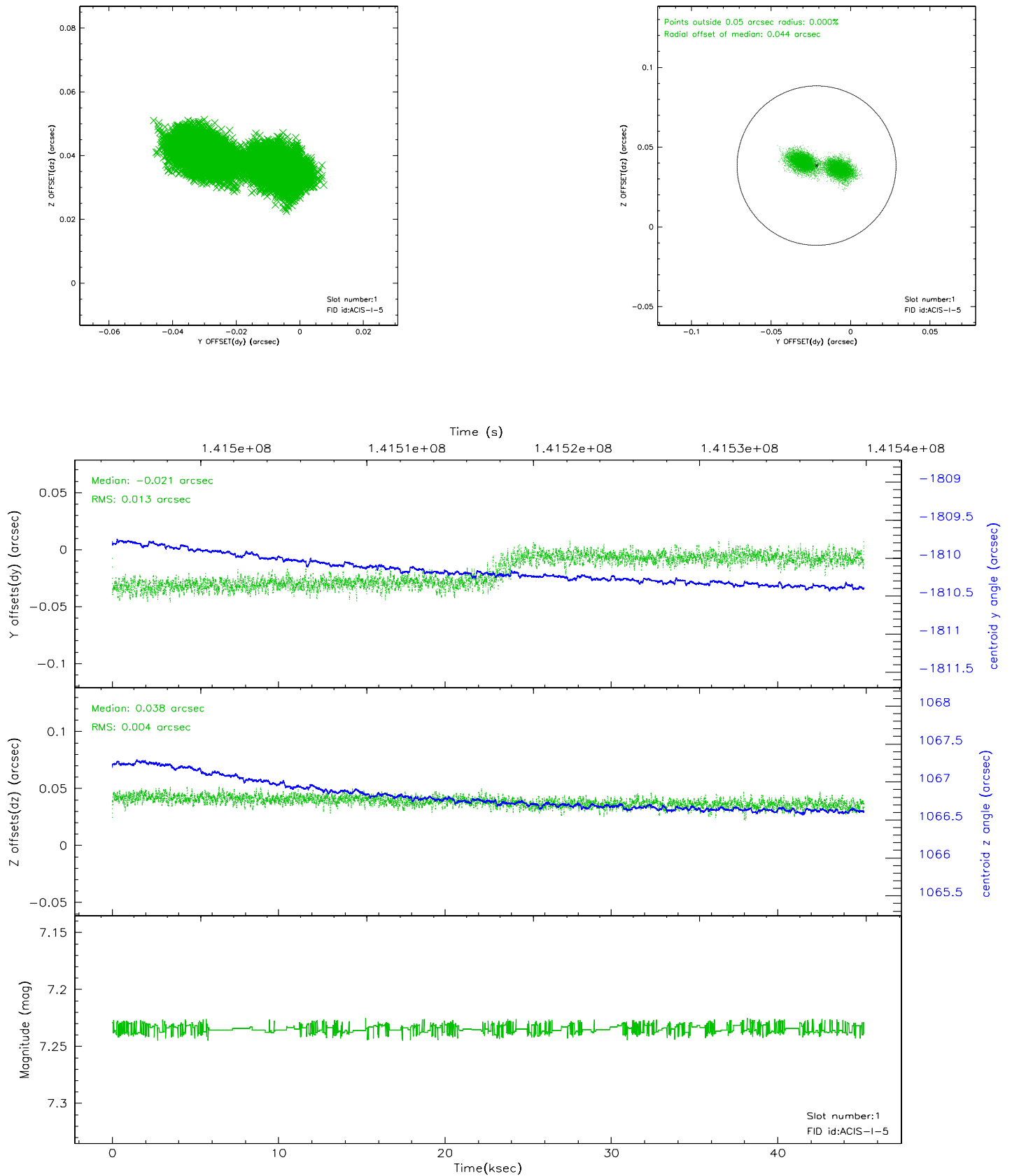


## 2.5 FID Slots

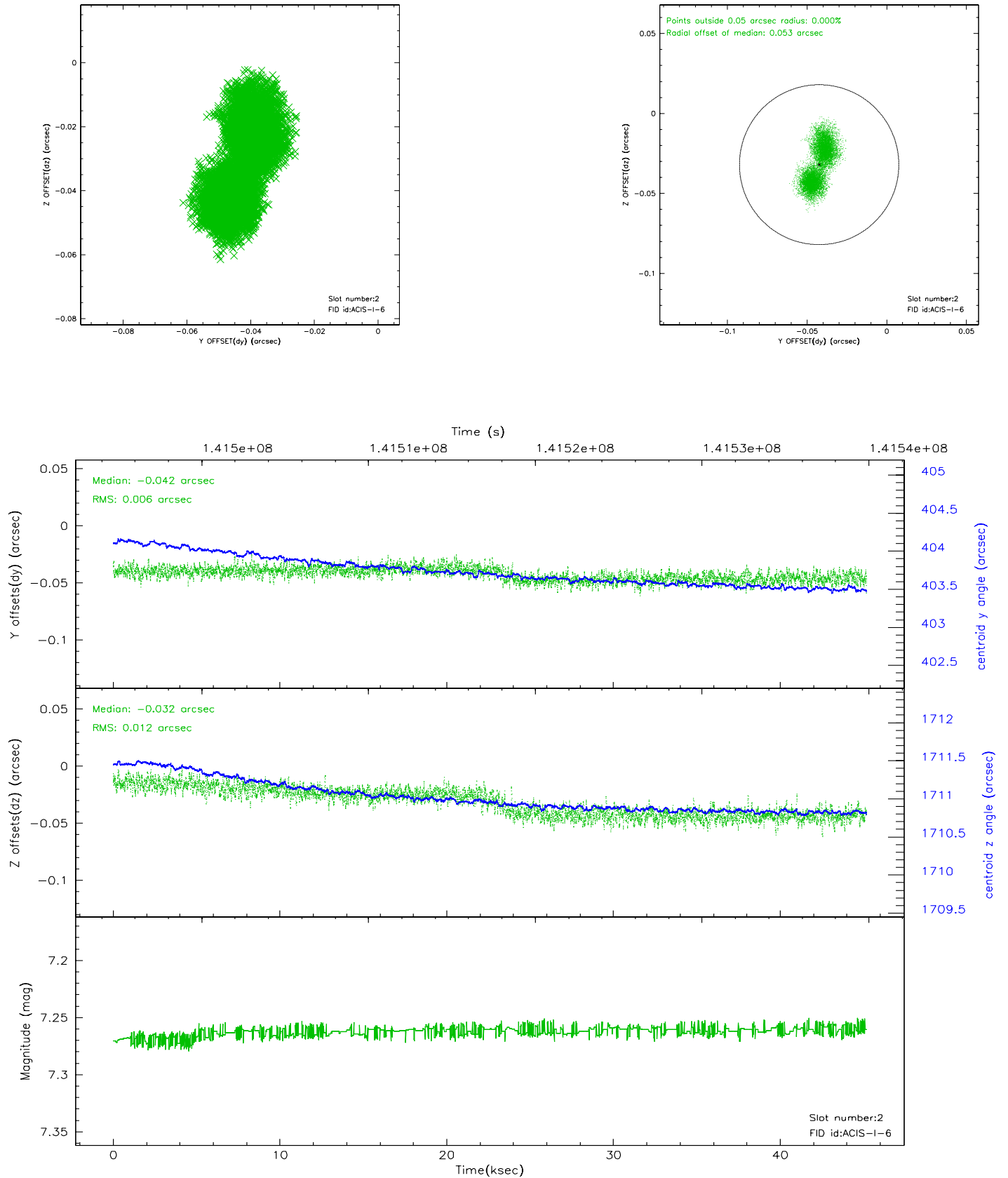
### 2.5.1 Slot 0



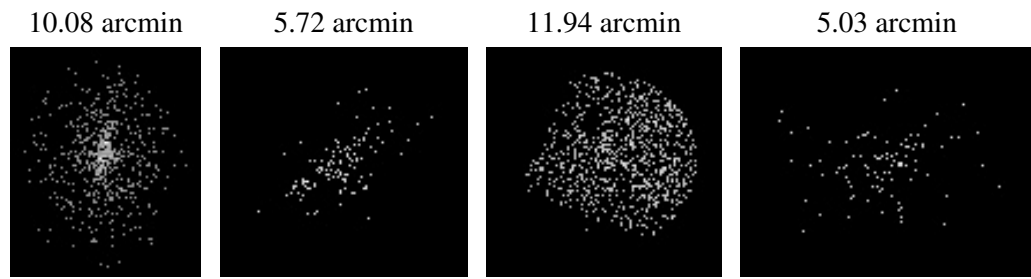
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.176

### A.2 Comments

Slot 4 was excluded from aspect solution.