

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5323 - L2 Version 001  
Chandra X-Ray Center

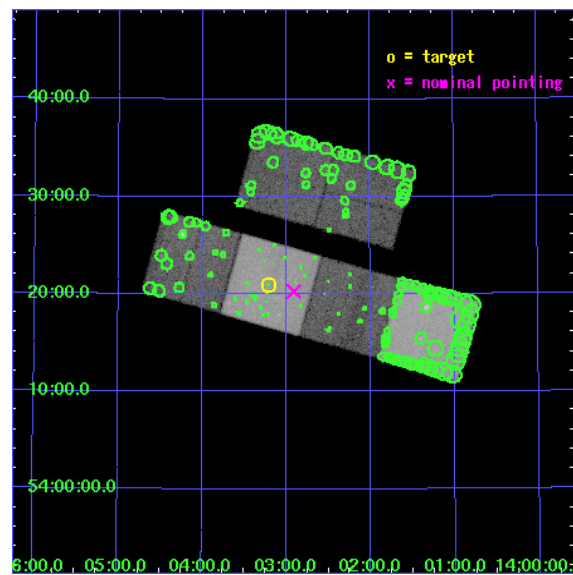
L2 Processing Date : May 18 2006

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# 1 Front

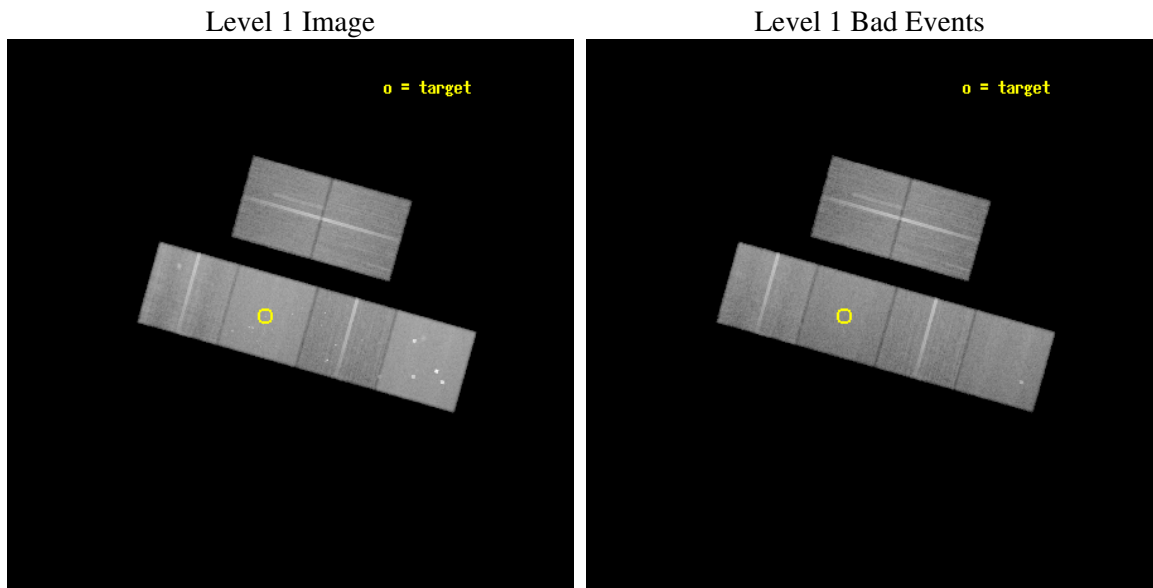
seq_num	600388
obs_id	5323
title	An Ultra-Deep Study of M101
observer	Dr. K. Kuntz
object	M101
dtcycle	0
cycle	P
ra_targ	210.80375
dec_targ	54.348778
ra_nom	210.72748796436
dec_nom	54.338164619185
roll_nom	195.70552461387
revision	2
ontime	43161.599839211
livetime	42615.061673251
ontime2	42950.93599546
ontime3	42954.445781738
ontime5	43161.599839211
ontime6	42973.932673126
ontime7	43161.599839211
ontime8	42967.368602842
l2events	486710



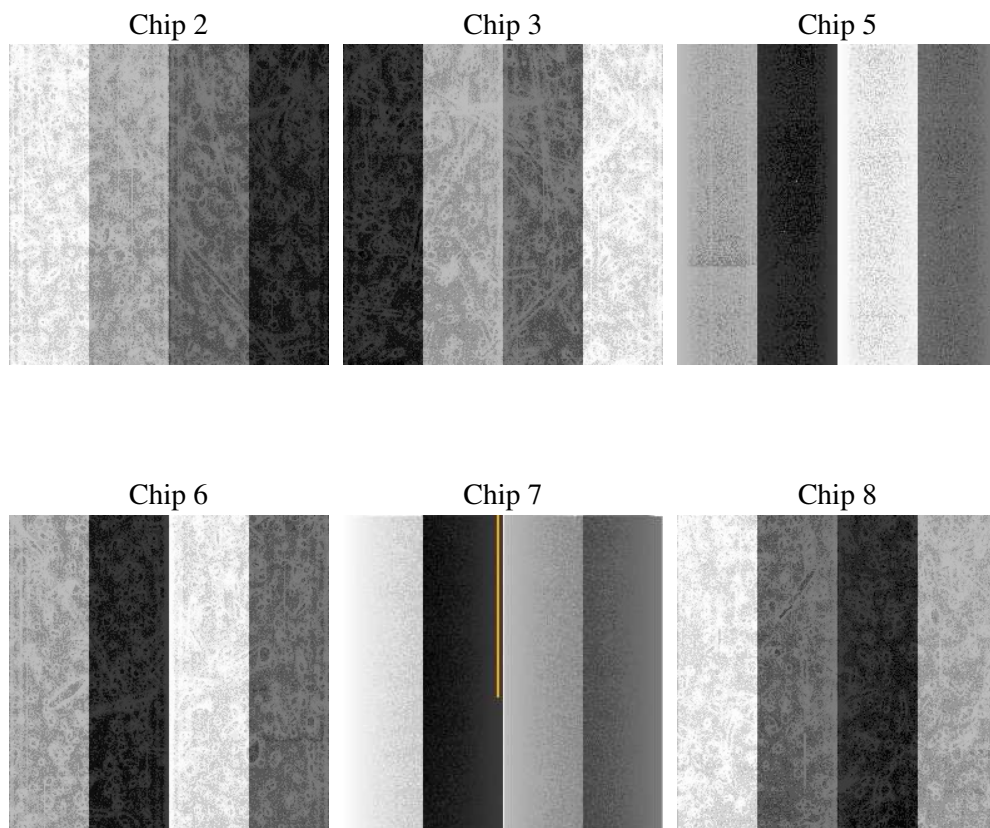
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.2
date	2006-05-18T21:34:37
revision	2

sched_exp_time	43000.000000
ontime	43902.613241822
ontime2	43186.353395581
ontime3	43218.763785452
ontime5	43941.505323172
ontime6	43254.414577752
ontime7	43902.613241822
ontime8	43241.450766504
l1events	2292308

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	323403	305446	493463	323111	447464	399421
rejected events	287066	270516	281037	284352	281317	317181
rejected %	88%	88%	56%	88%	62%	79%

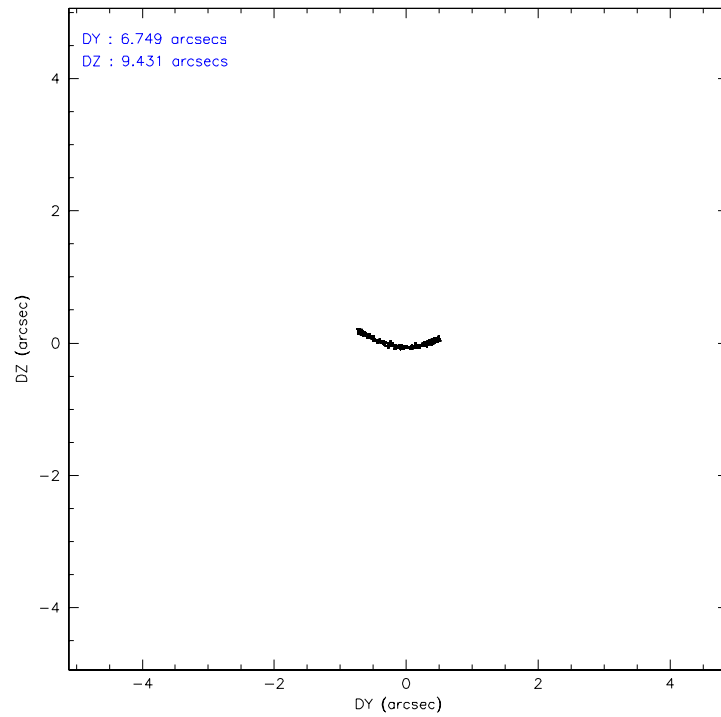
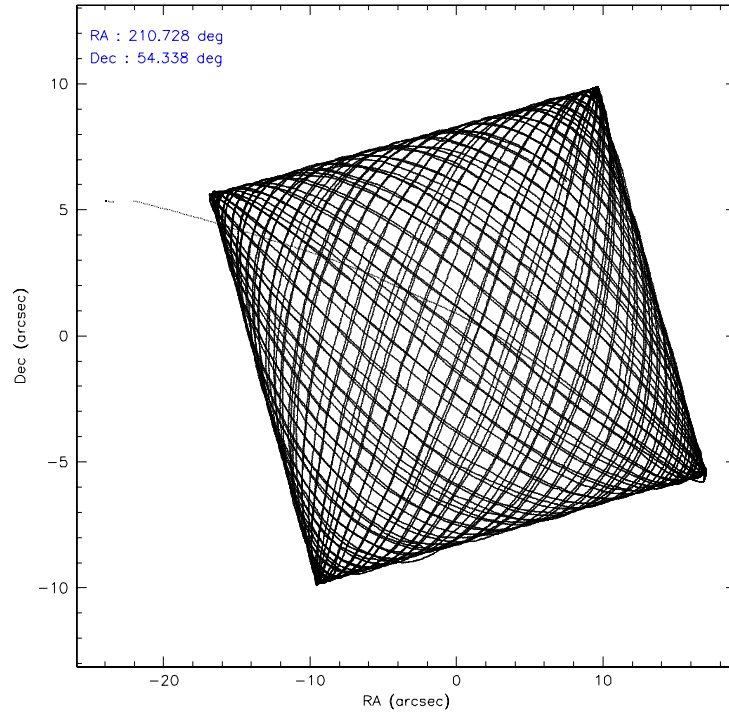
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	19524	19115	26086	20563	14909	31044
	6%	6%	5%	6%	3%	7%
grade 1 events	217	211	380	193	275	314
	0%	0%	0%	0%	0%	0%
grade 2 events	8691	7852	72087	8970	46570	19254
	2%	2%	14%	2%	10%	4%
grade 3 events	3823	3973	5260	4136	10296	8957
	1%	1%	1%	1%	2%	2%
grade 4 events	3813	3783	4723	3946	9987	8477
	1%	1%	0%	1%	2%	2%
grade 5 events	12576	13729	23279	14429	28391	18906
	3%	4%	4%	4%	6%	4%
grade 6 events	6851	7089	121658	8575	102388	21830
	2%	2%	24%	2%	22%	5%
grade 7 events	267908	249694	239990	262299	234648	290639
	82%	81%	48%	81%	52%	72%

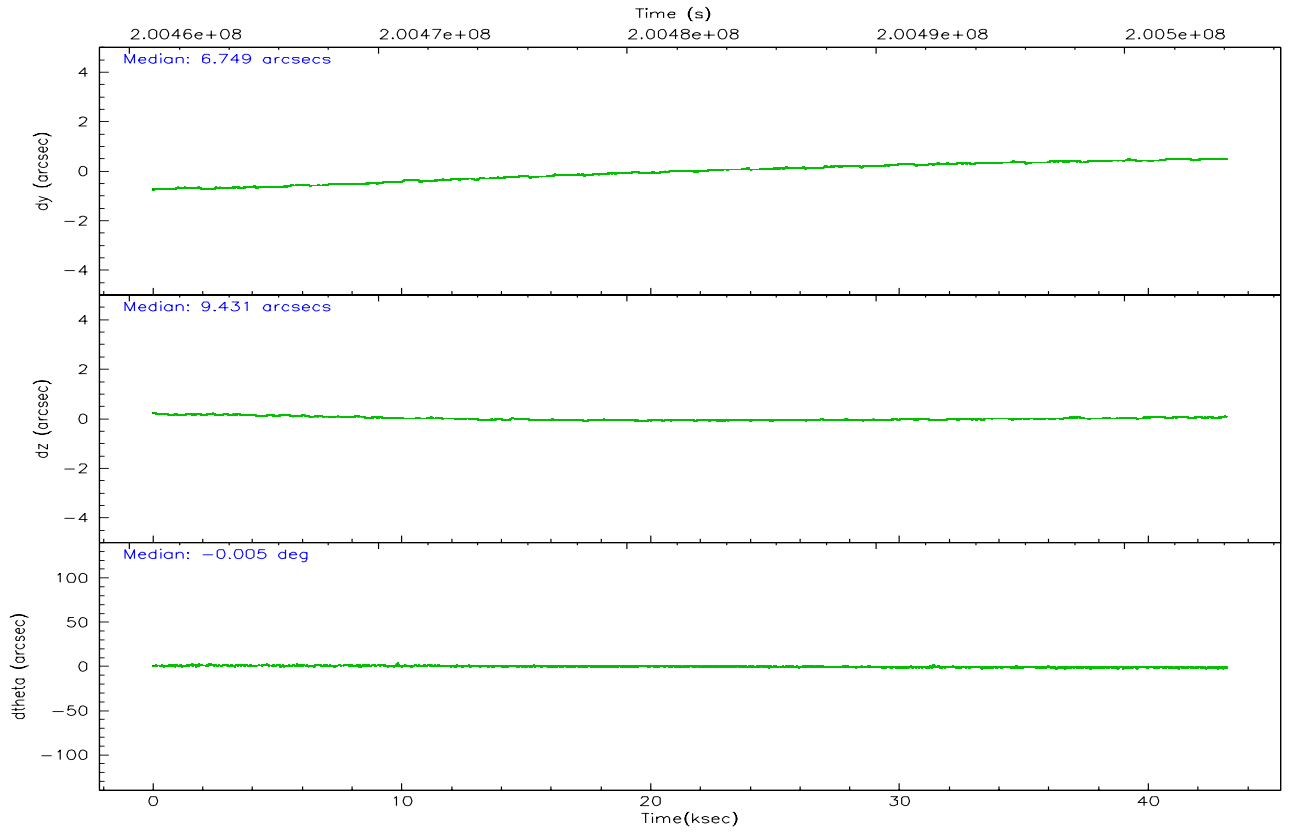
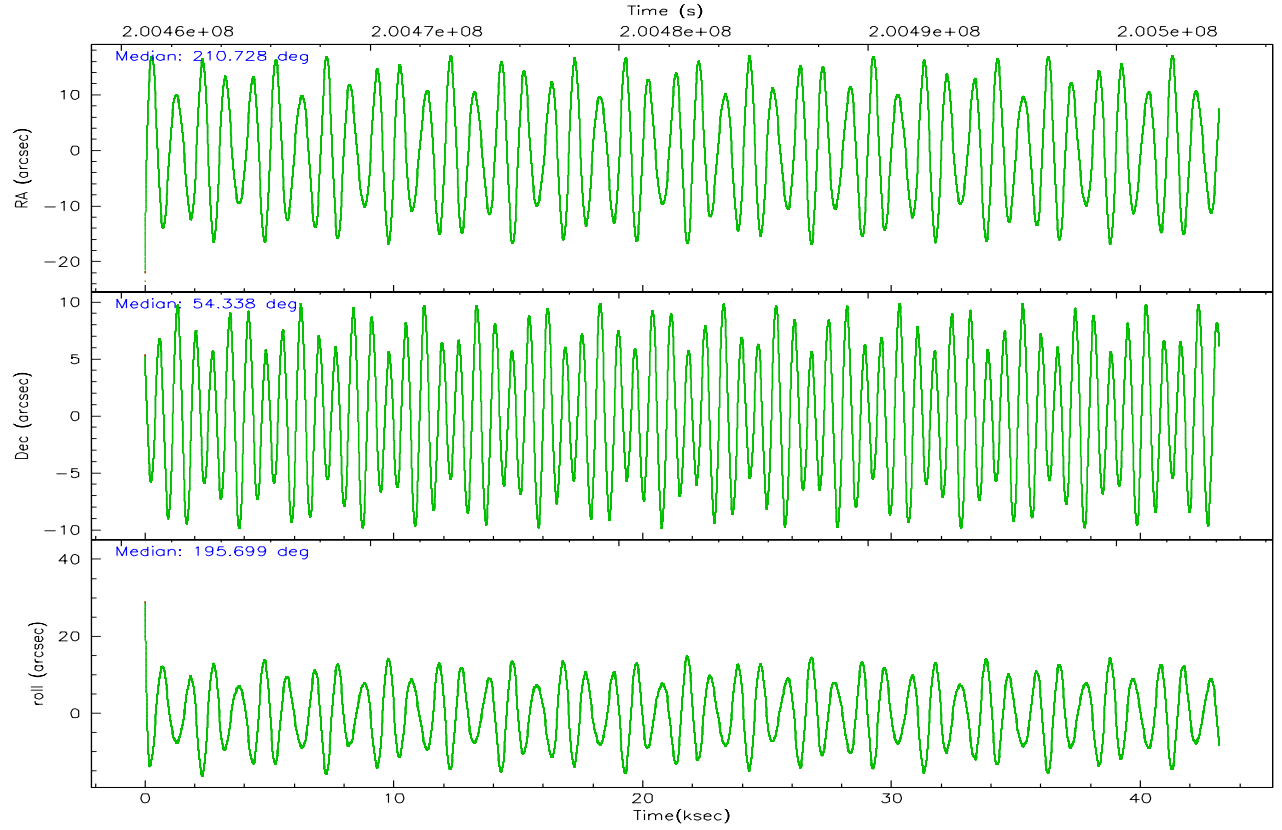


## 2.2 Compared Parameters

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	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	210.759638	210.7274879643564	Alternating exposures requested	N	N
Pointing Dec	54.357901	54.33816461918462	Primary exposure time	0.000000	3.2
Pointing Roll	195.522775	195.7055246138711			
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	200461113.184000	200459492.36198			
Observation start date	2004-05-09T03:37:29	2004-05-09T03:11:32			
Observation end time	200504113.184000	200504885.51399			
Observation end date	2004-05-09T15:34:09	2004-05-09T15:48:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect



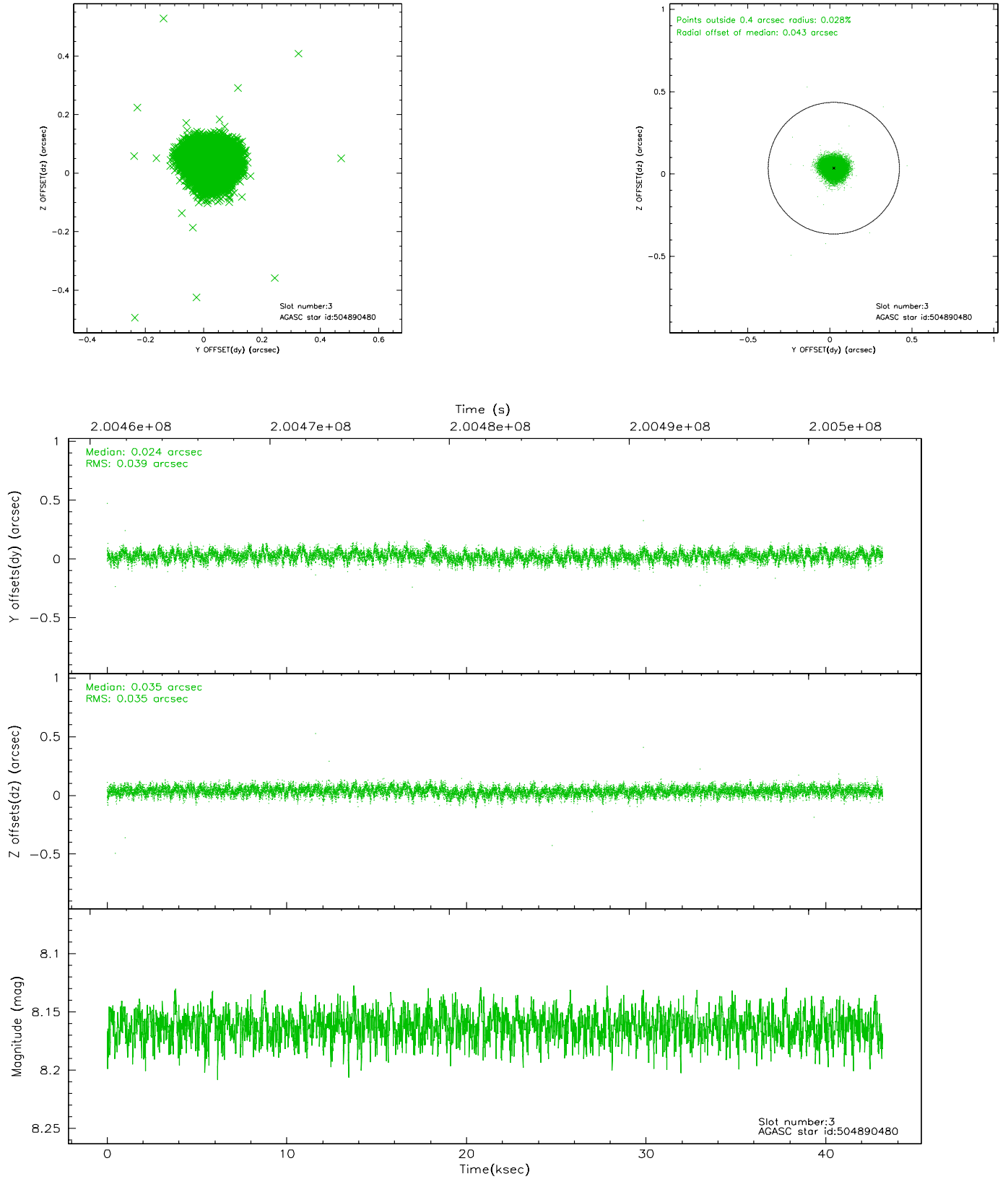


### Slot Statistics

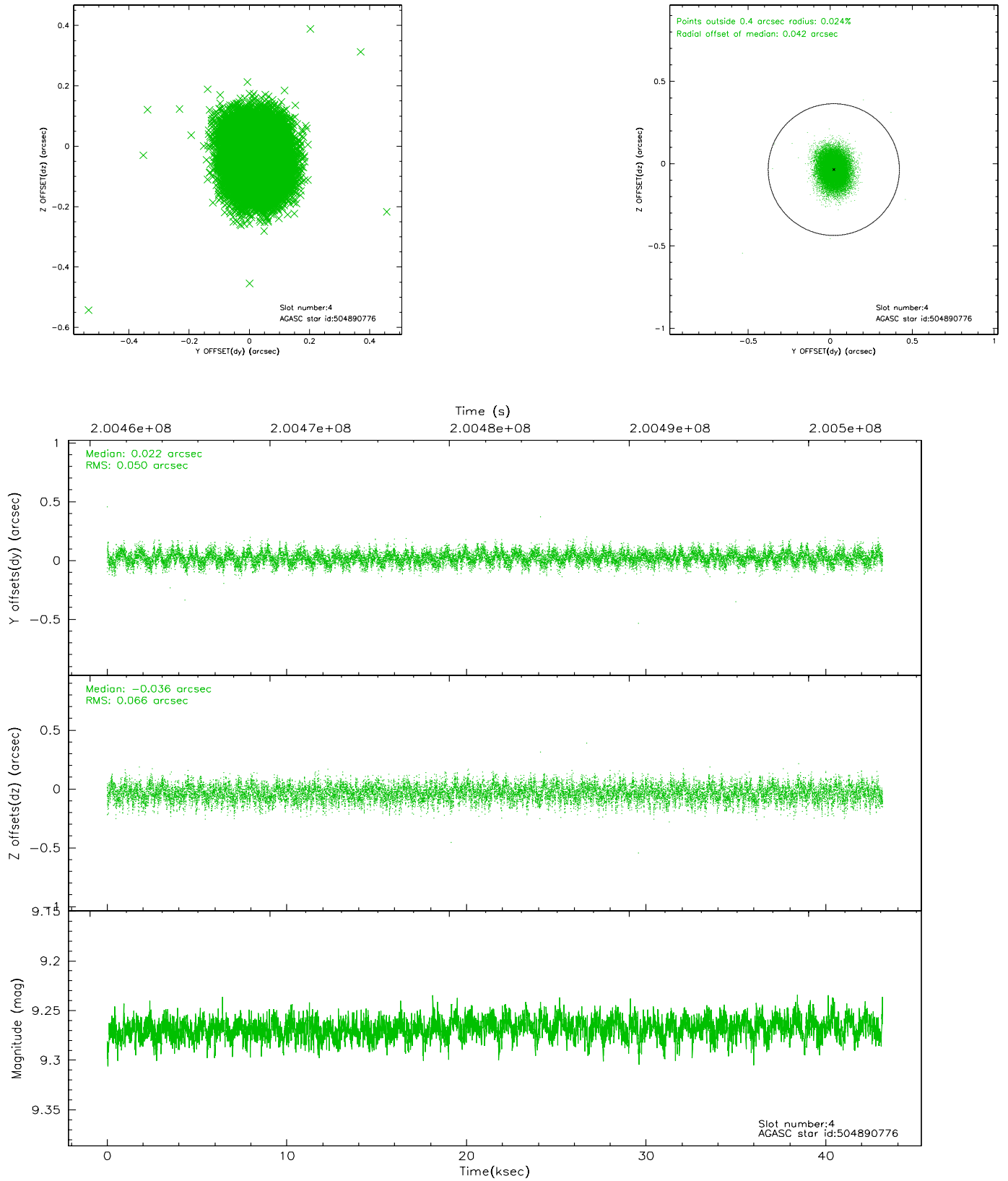
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	10530	0.006	0.017	0.011	0.020	0.000000	0.000000	936.59	-1726.29
1	FID	ACIS-S-5	7.24	10530	-0.030	0.016	0.012	0.021	0.000000	0.000000	-1812.43	171.27
2	FID	ACIS-S-6	7.35	10529	0.001	-0.020	0.015	0.026	0.000000	0.000000	402.16	815.19
3	GUIDE	504890480	8.16	21058	0.024	0.035	0.056	0.089	210.132463	53.768436	1852.76	1682.80
4	GUIDE	504890776	9.27	21047	0.022	-0.036	0.088	0.143	211.095934	54.816966	-1114.39	-1406.98
5	GUIDE	504891480	8.07	21056	0.118	-0.103	0.066	0.109	210.708012	54.666096	-192.97	-1097.64
6	GUIDE	504894408	9.26	21046	-0.084	0.102	0.095	0.157	211.942794	54.047749	-2116.27	1725.05
7	GUIDE	505292416	9.29	20995	-0.076	-0.008	0.108	0.178	210.920759	55.040479	-977.52	-2279.07

## 2.4 Star Slots

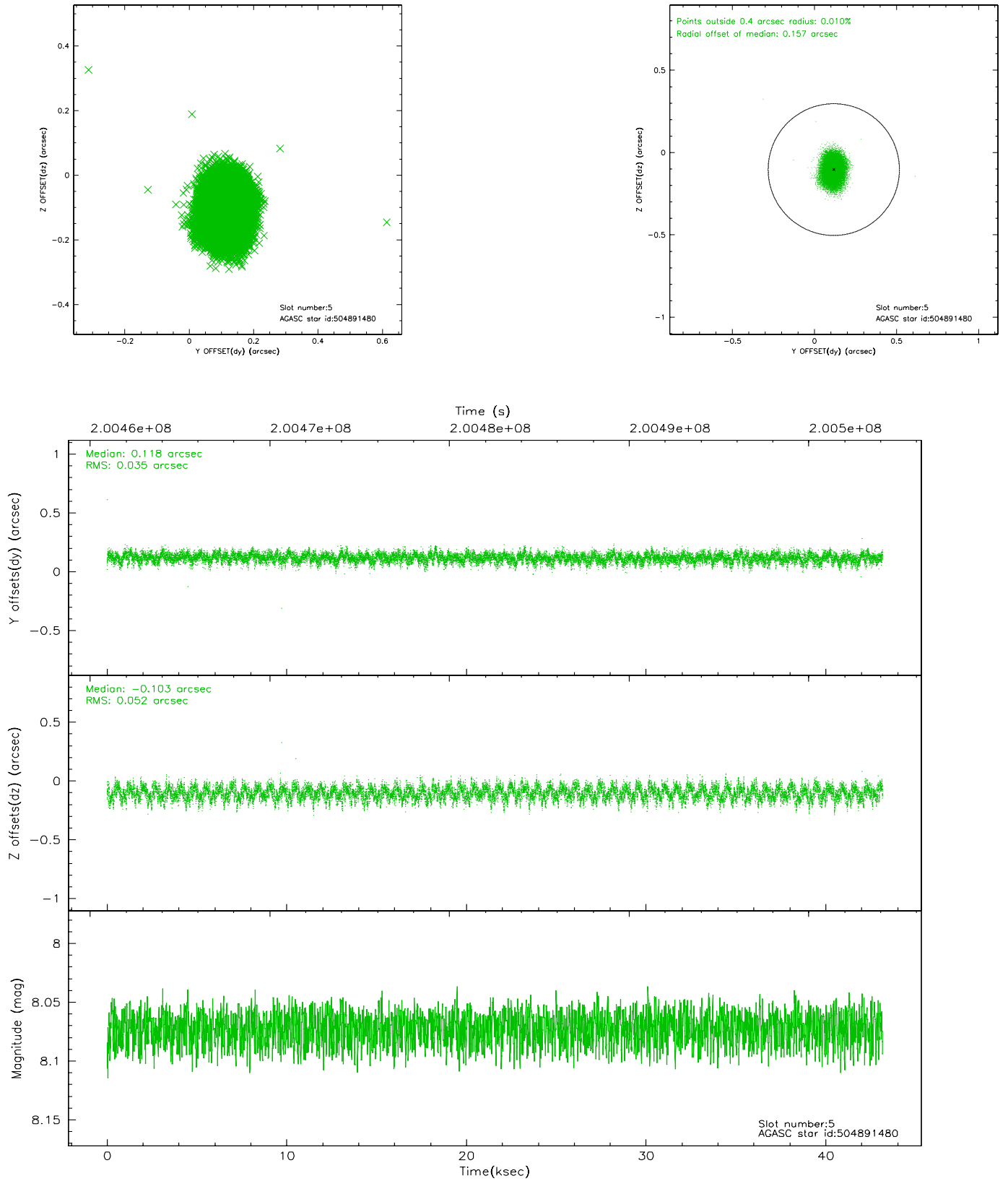
### 2.4.1 Slot 3



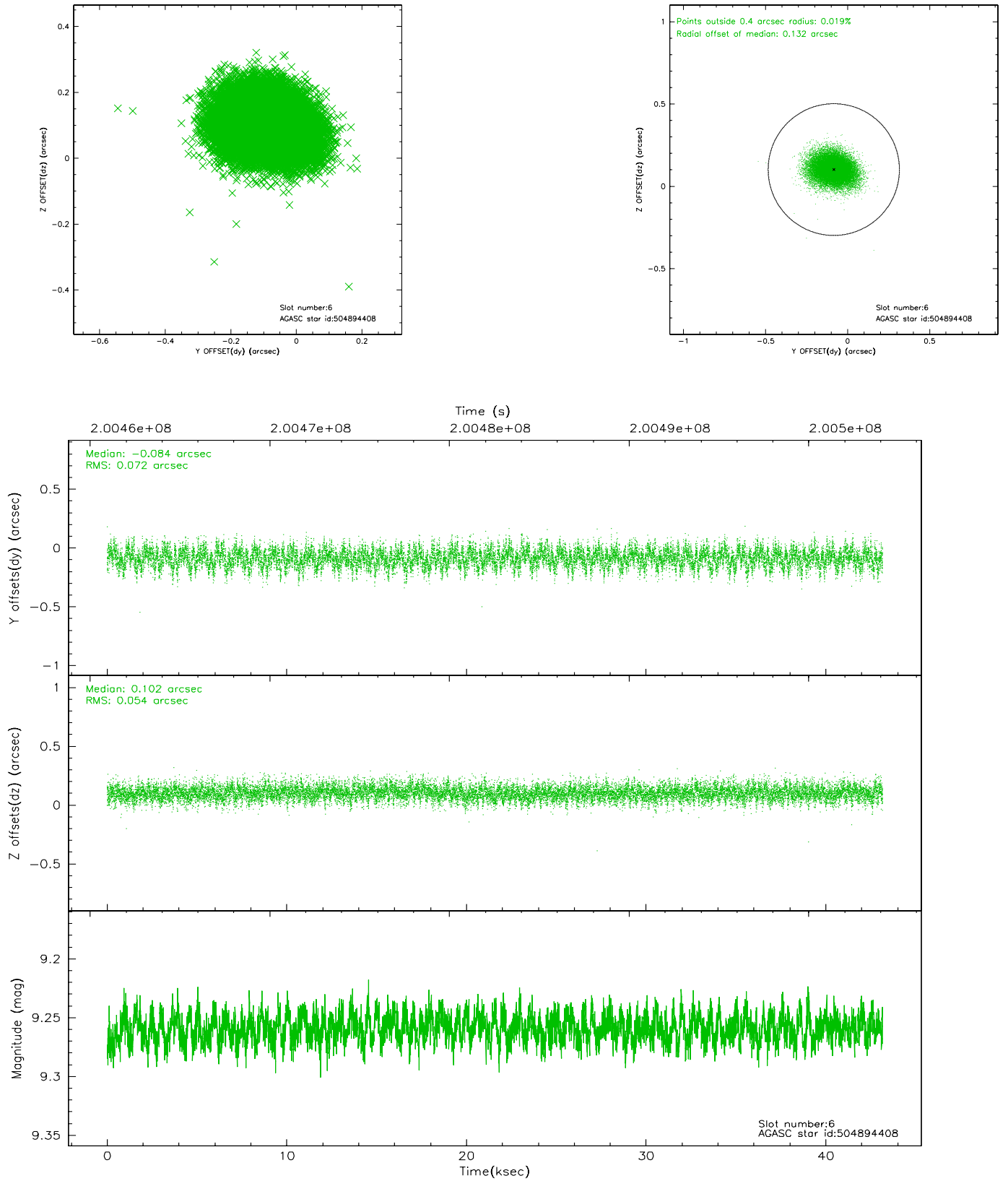
## 2.4.2 Slot 4



### 2.4.3 Slot 5

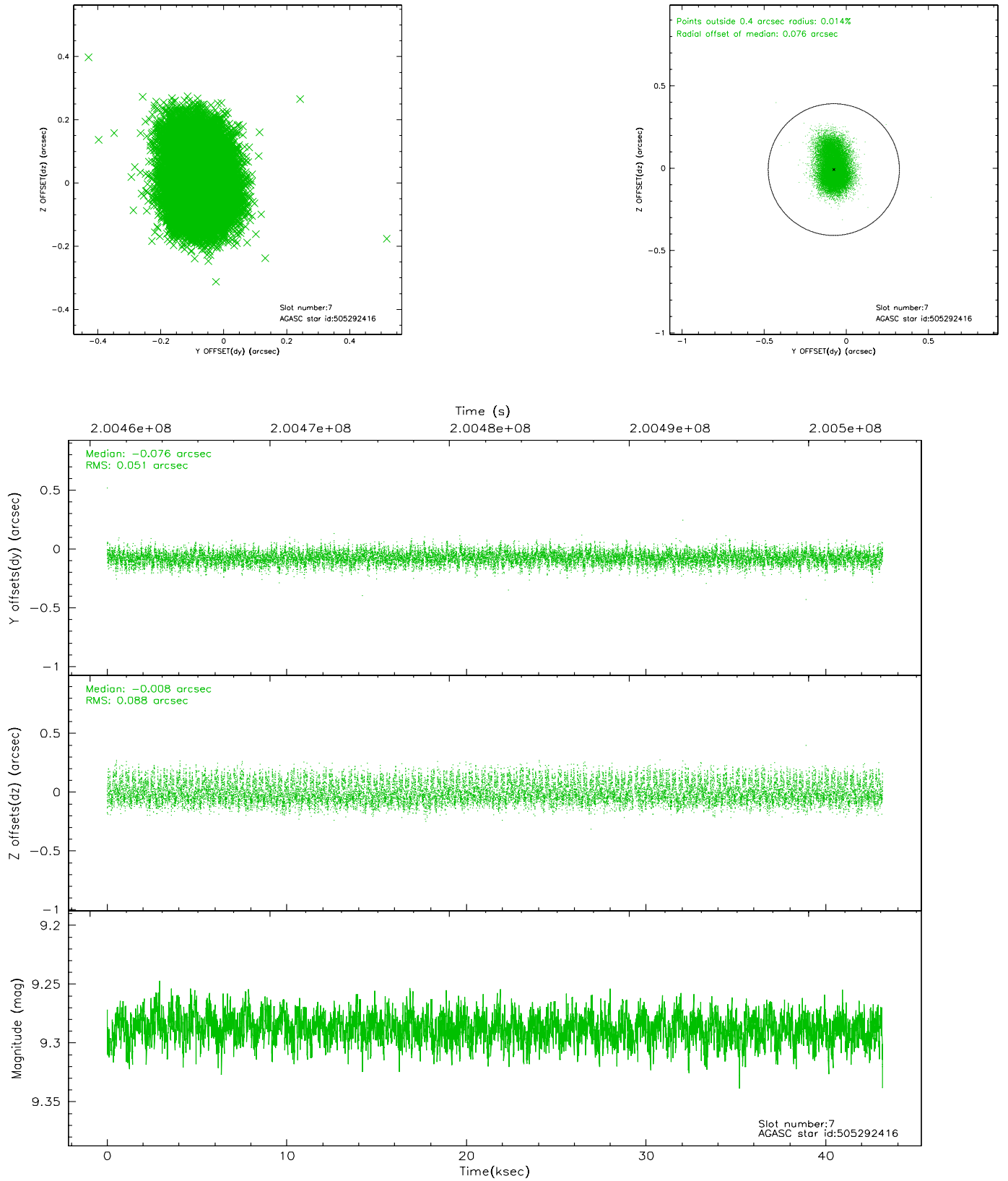


## 2.4.4 Slot 6



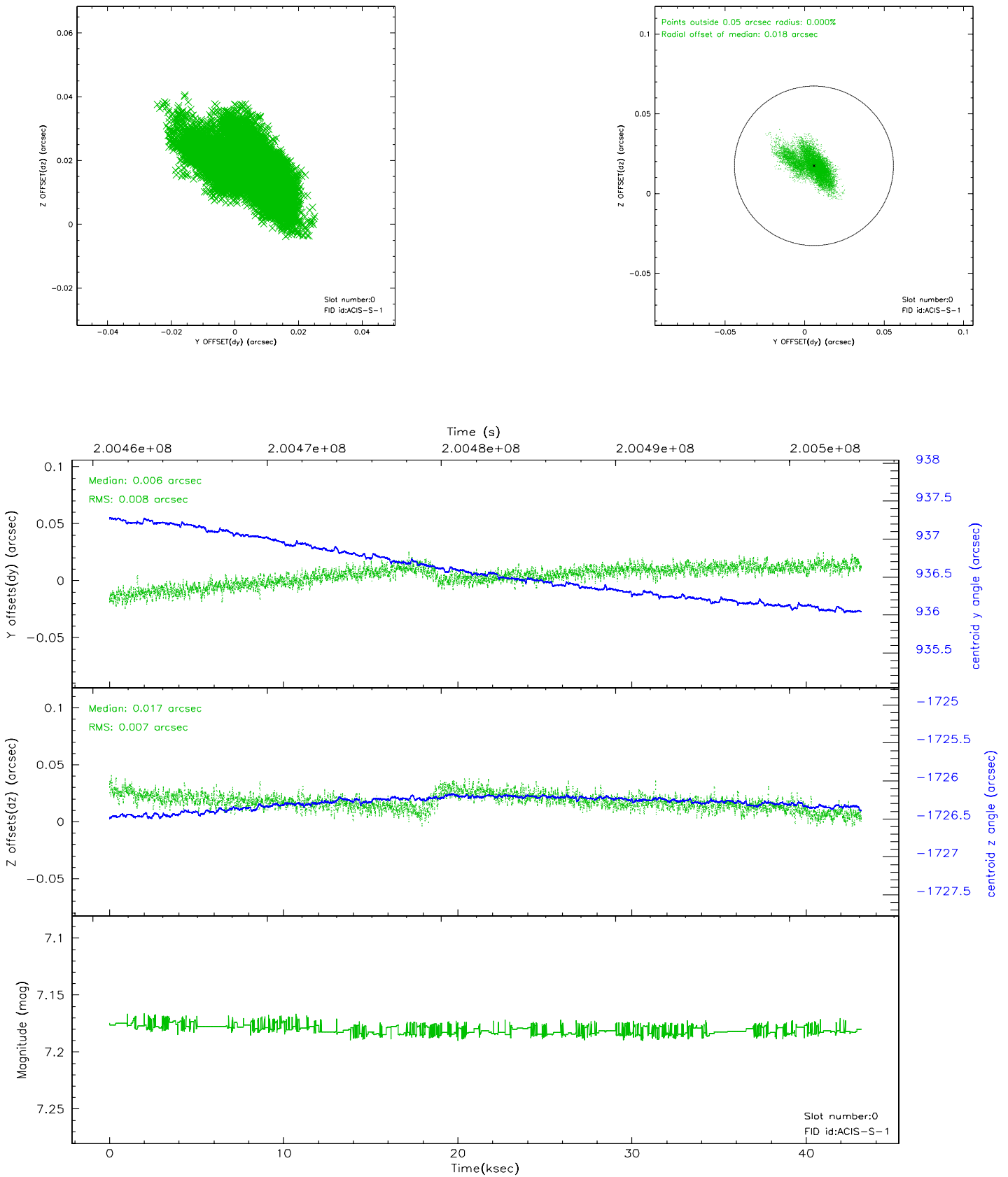


## 2.4.5 Slot 7

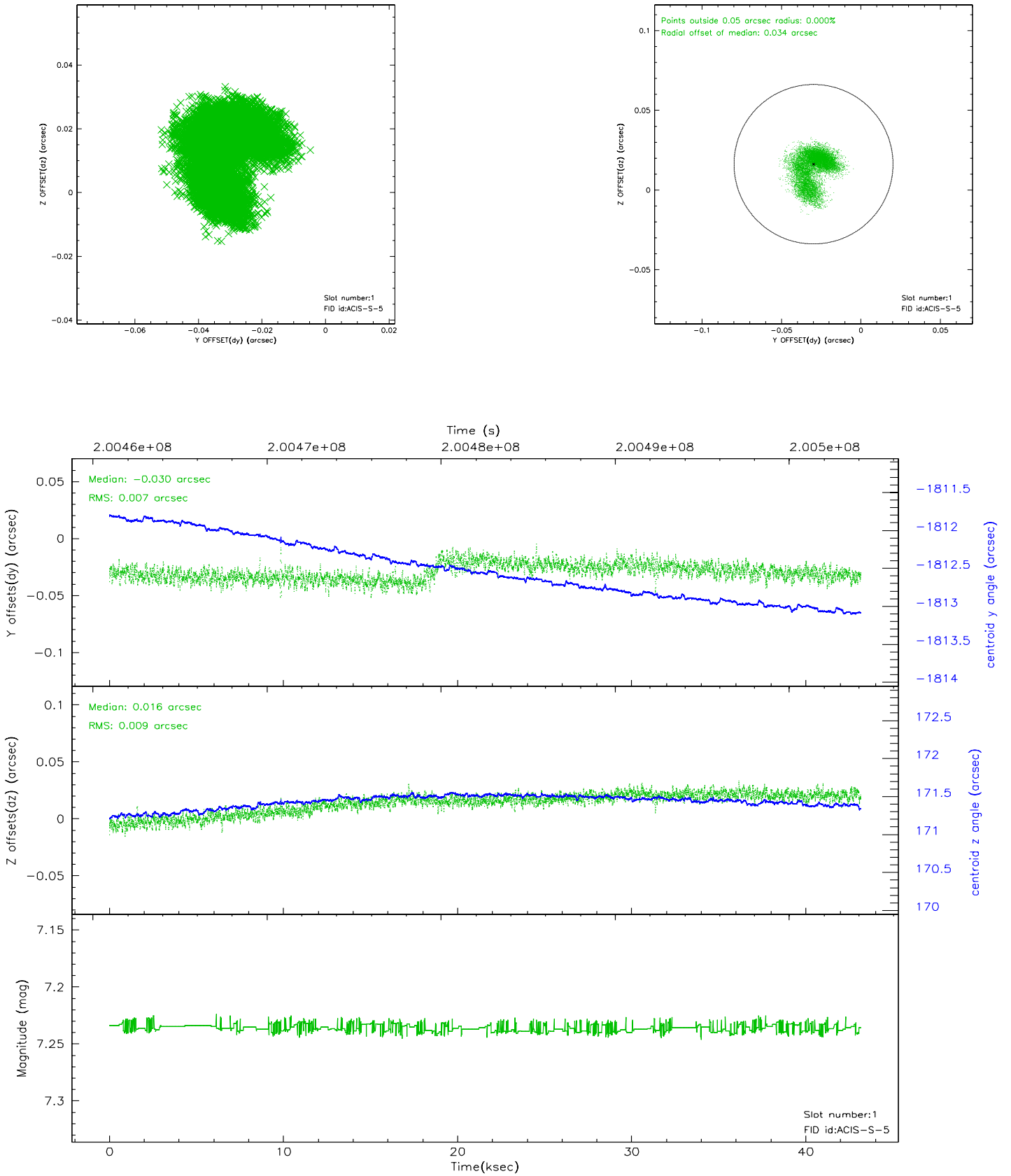


## 2.5 FID Slots

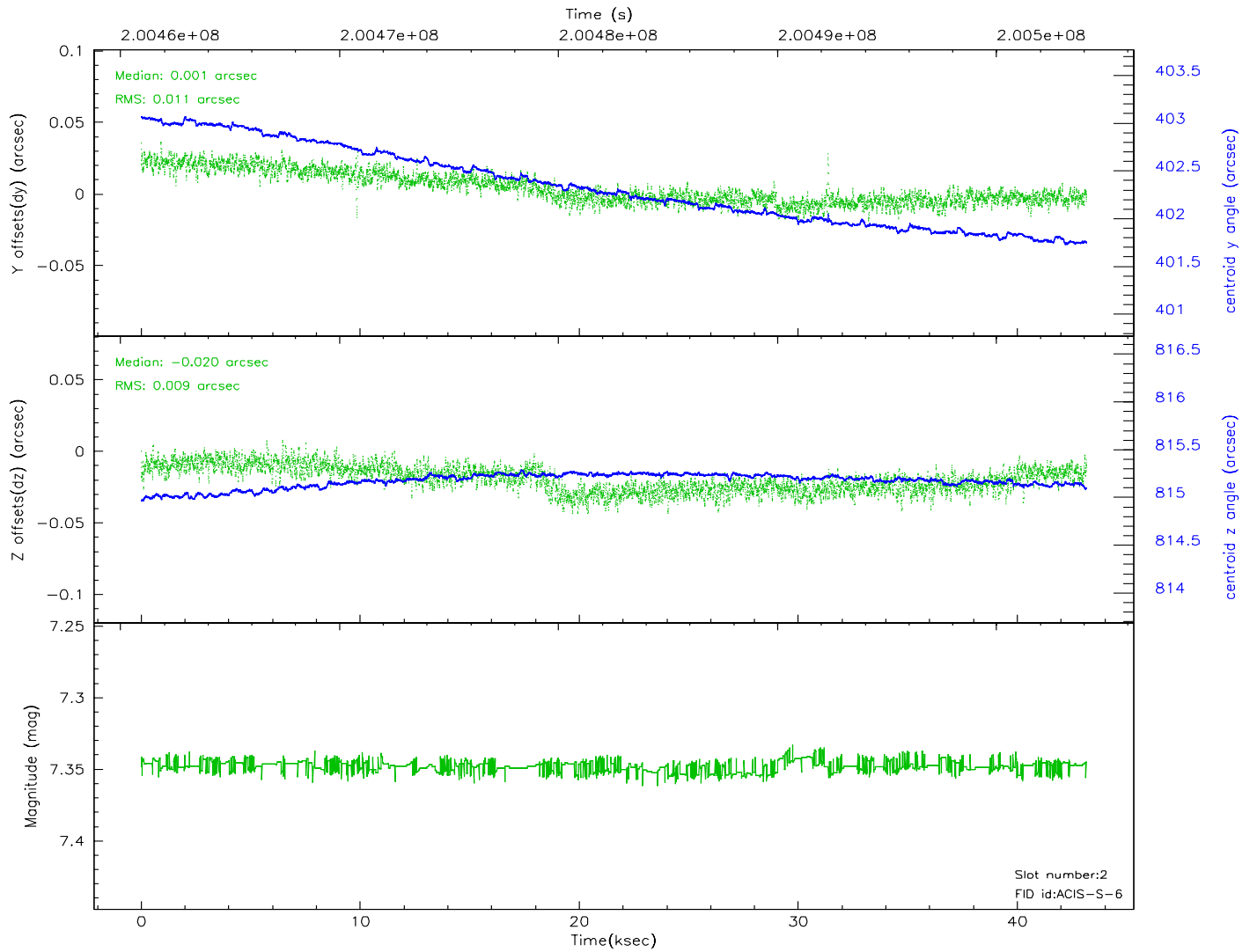
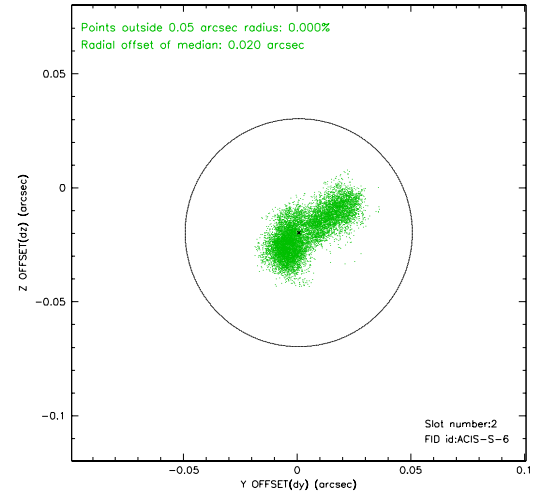
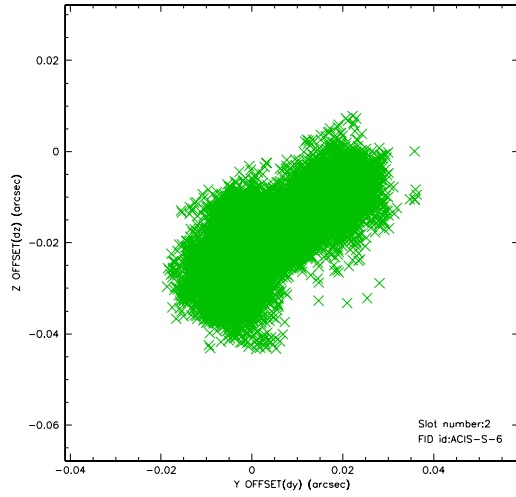
### 2.5.1 Slot 0



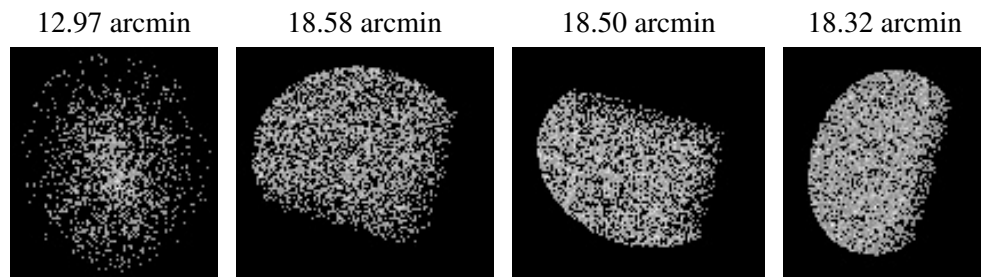
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.161

### A.2 Comments

Monitor constraint met.