

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 5535 - L2 Version 002  
Chandra X-Ray Center

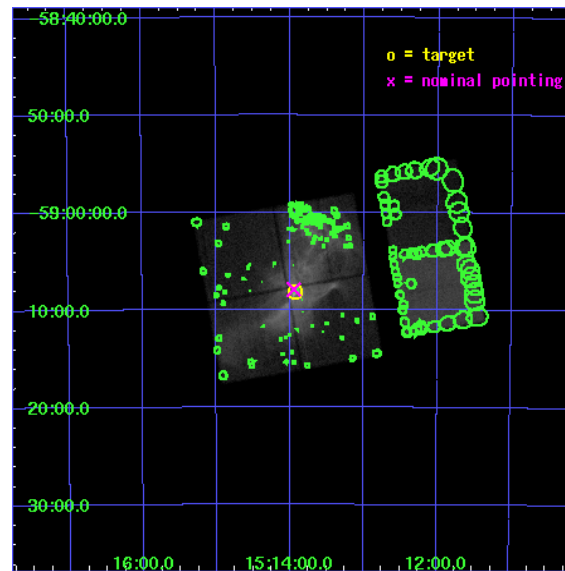
L2 Processing Date: Feb 22 2006

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# 1 Front

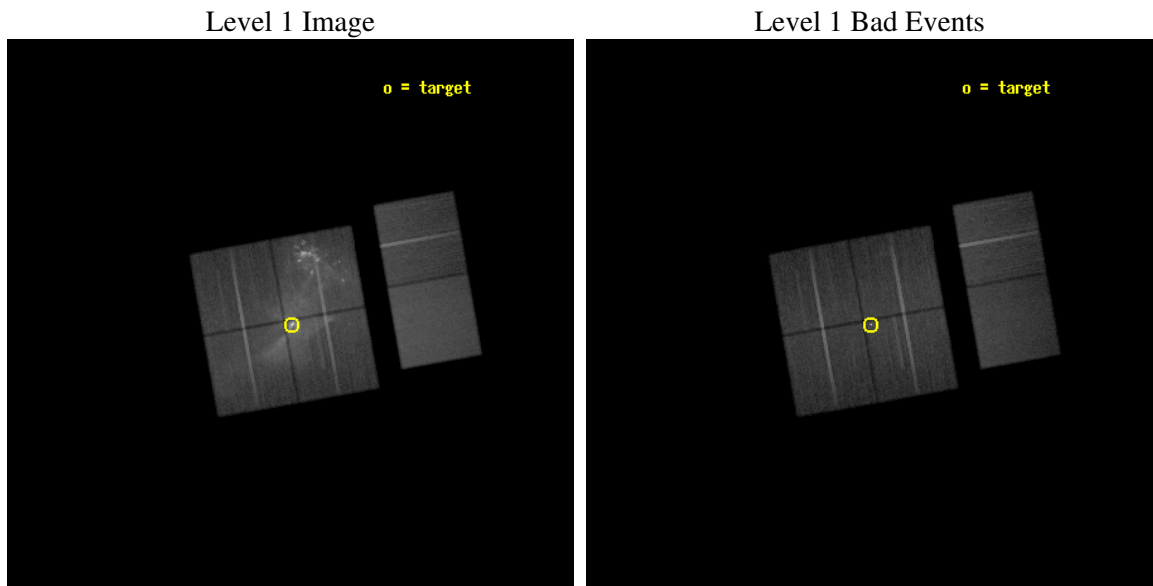
seq_num	500528
obs_id	5535
title	The Structure and Composition of Pulsar Winds and their Nebulae
observer	Dr. Patrick Slane
object	PSR B1509-58
dtcycle	0
cycle	P
ra_targ	228.481667
dec_targ	-59.135806
ra_nom	228.48659385036
dec_nom	-59.131927774975
roll_nom	79.92056121648
revision	2
ontime	43132.758879036
livetime	42586.58591468
ontime0	43129.51792866
ontime1	43135.999839306
ontime2	43132.758868992
ontime3	43132.758879036
ontime6	43132.758898944
ontime7	43132.758869022
l2events	780490



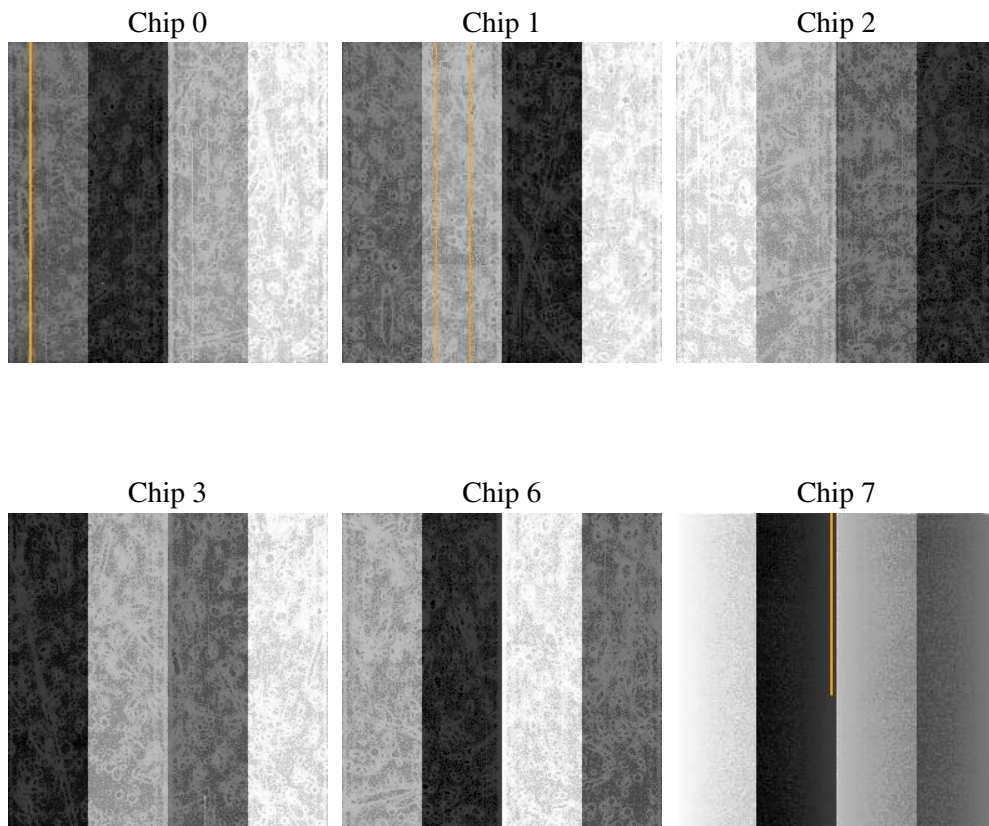
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7
caldsver	3.2.1
date	2006-02-22T02:39:56
revision	2

sched_exp_time	43000.000000
ontime	43413.222683609
ontime0	43409.981733233
ontime1	43416.463643879
ontime2	43413.222673565
ontime3	43413.222683609
ontime6	43413.222703516
ontime7	43413.222693473
l1events	2426364

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	317230	385310	522199	428783	332748	440094
rejected events	247589	245435	272215	274016	285995	265718
rejected %	78%	63%	52%	63%	85%	60%

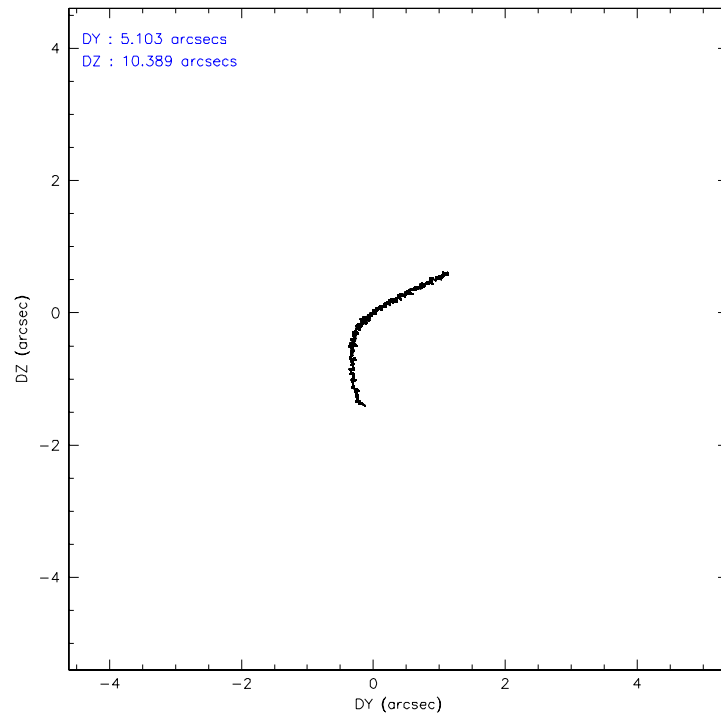
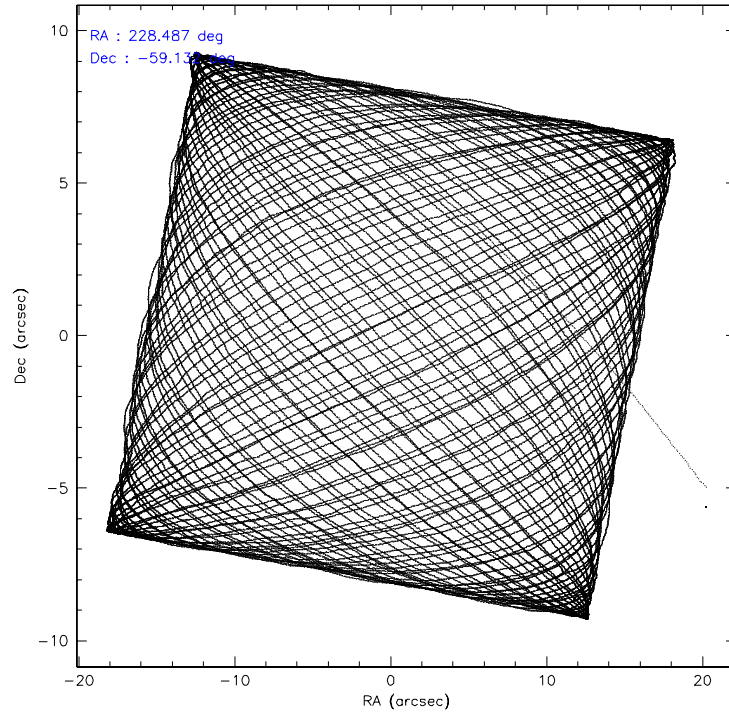
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	41766	93459	190668	104493	22280	10831
	13%	24%	36%	24%	6%	2%
grade 1 events	284	474	1056	2138	191	287
	0%	0%	0%	0%	0%	0%
grade 2 events	11537	20651	28929	21124	9036	43450
	3%	5%	5%	4%	2%	9%
grade 3 events	4642	7494	10091	8535	3969	9184
	1%	1%	1%	1%	1%	2%
grade 4 events	4588	7501	10240	8411	3787	8801
	1%	1%	1%	1%	1%	1%
grade 5 events	12941	13793	12925	16661	15163	28276
	4%	3%	2%	3%	4%	6%
grade 6 events	7608	11541	11207	12892	7960	103122
	2%	2%	2%	3%	2%	23%
grade 7 events	233864	230397	257083	254529	270362	236143
	73%	59%	49%	59%	81%	53%

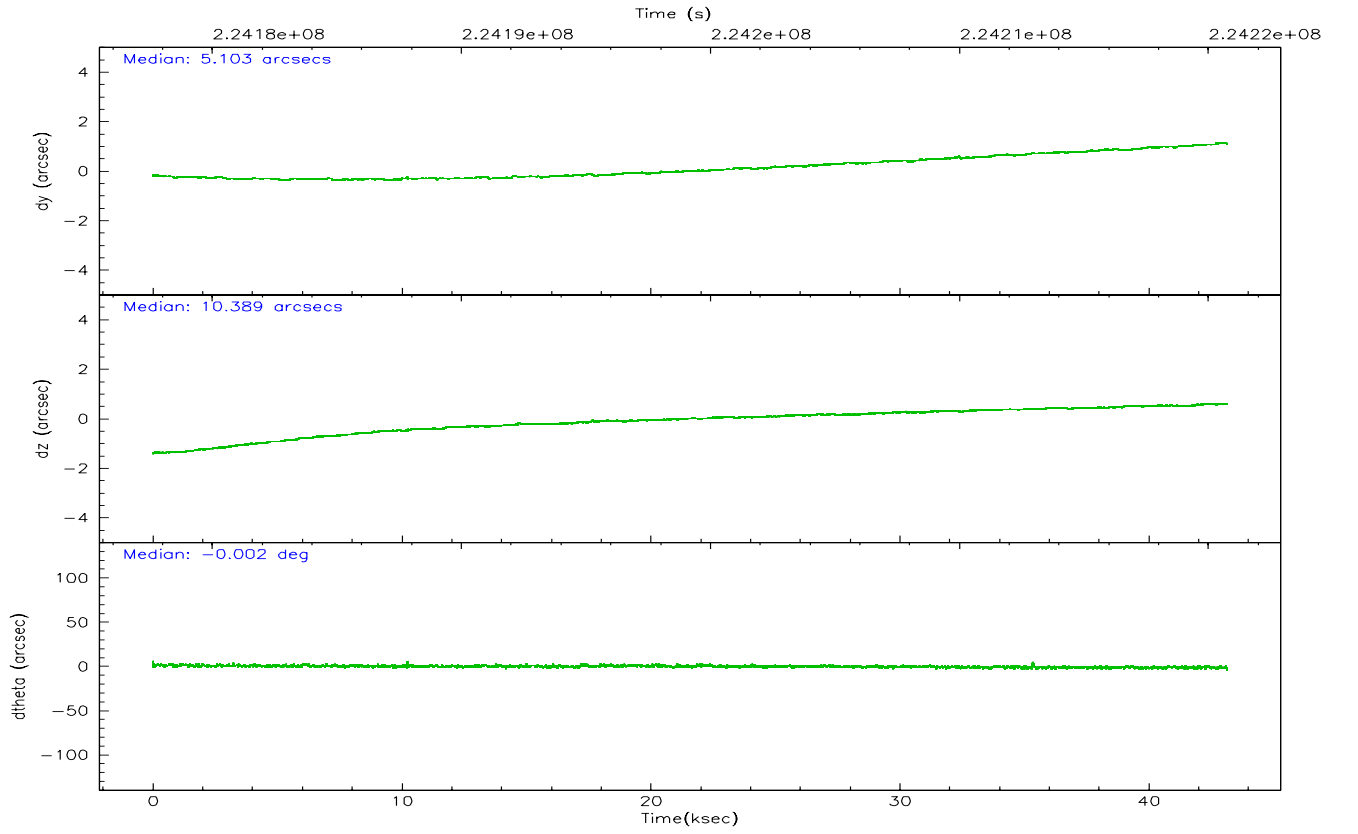
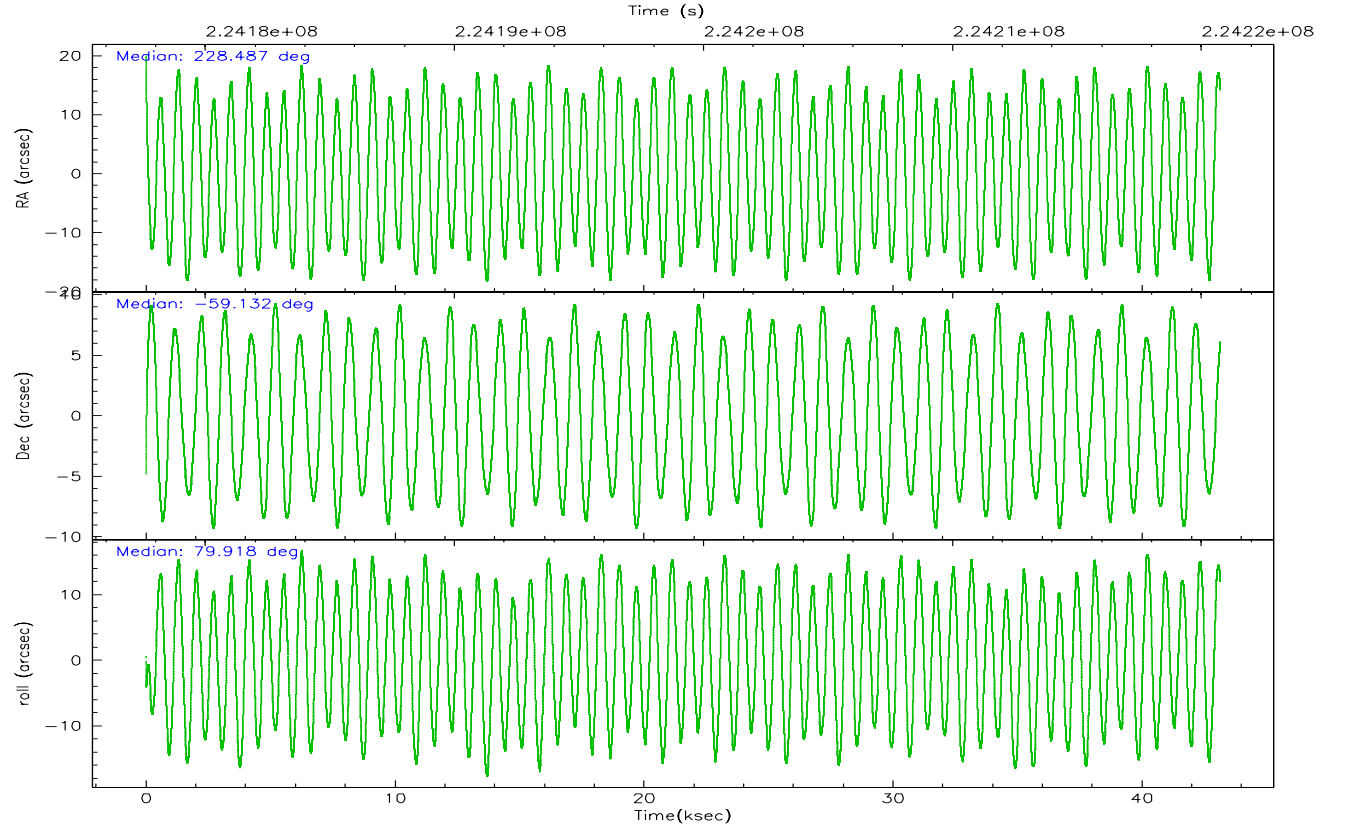


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	228.505001	228.4865938503644	Alternating exposures requested	N	N
Pointing Dec	-59.157616	-59.13192777497508	Primary exposure time	0.000000	3.2
Pointing Roll	79.727684	79.92056121647998			
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	224177757.184000	224176571.23378			
Observation start date	2005-02-07T15:34:53	2005-02-07T15:16:11			
Observation end time	224220757.184000	224221659.96082			
Observation end date	2005-02-08T03:31:33	2005-02-08T03:47:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect



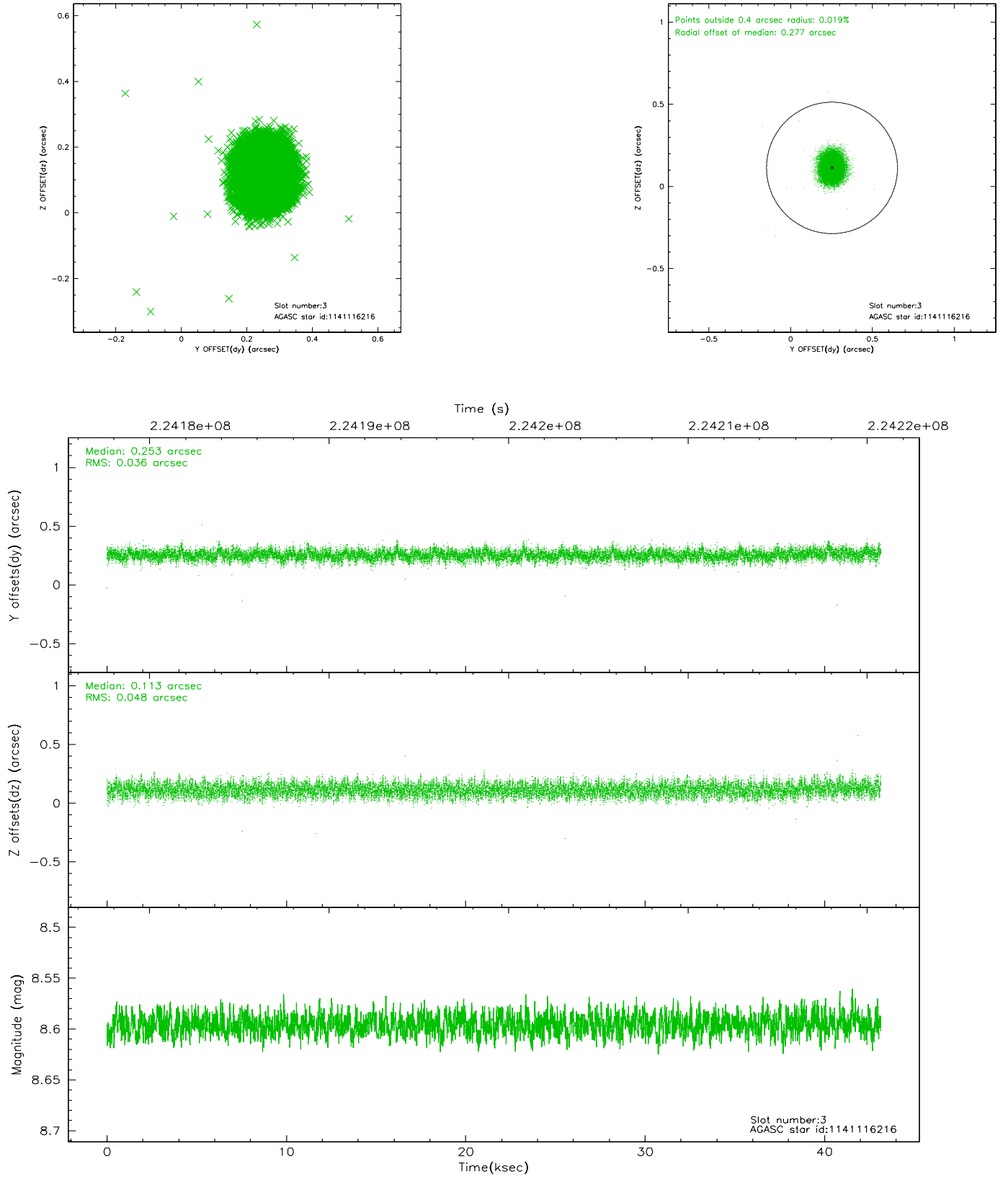


# Slot Statistics

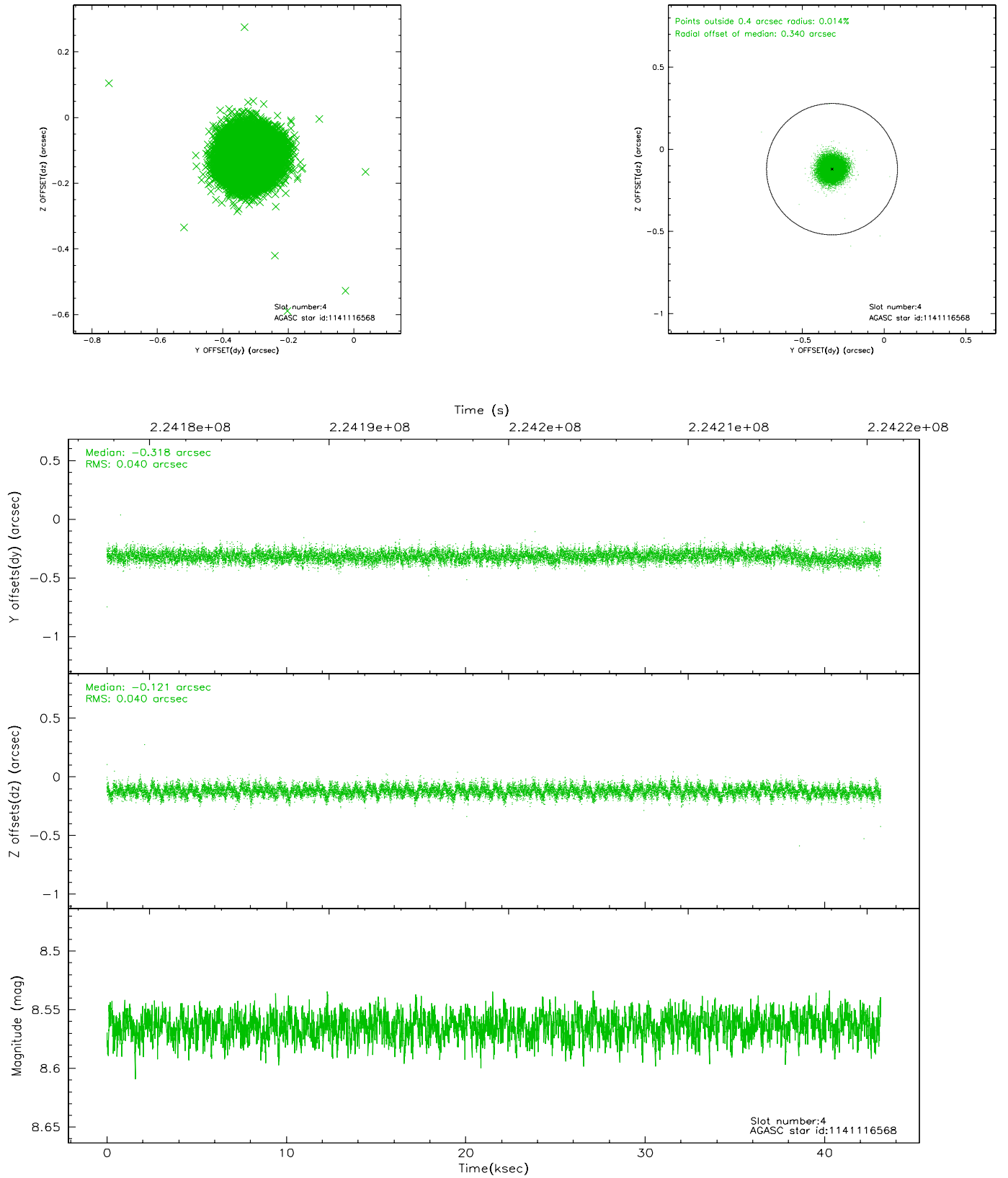
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	10521	-0.109	-0.052	0.013	0.021	0.000000	0.000000	-759.81	-840.17
1	FID	ACIS-I-4	7.18	10518	-0.003	0.073	0.011	0.025	0.000000	0.000000	2154.35	1066.13
2	FID	ACIS-I-6	7.25	10520	0.015	0.043	0.015	0.032	0.000000	0.000000	400.39	1708.28
3	GUIDE	1141116216	8.60	21038	0.253	0.113	0.064	0.103	229.040455	-59.767767	-1991.65	-1347.09
4	GUIDE	1141116568	8.56	21035	-0.318	-0.121	0.060	0.097	228.578452	-58.520066	2282.79	273.58
5	GUIDE	1141120488	8.76	21037	-0.055	-0.193	0.061	0.101	228.236450	-59.504731	-1317.73	259.75
6	GUIDE	1141121072	9.08	21029	0.052	-0.064	0.072	0.121	227.898628	-59.420815	-1135.33	923.23
7	GUIDE	1141119088	8.12	21039	0.069	0.270	0.067	0.110	229.638476	-59.667928	-1457.14	-2357.88

## 2.4 Star Slots

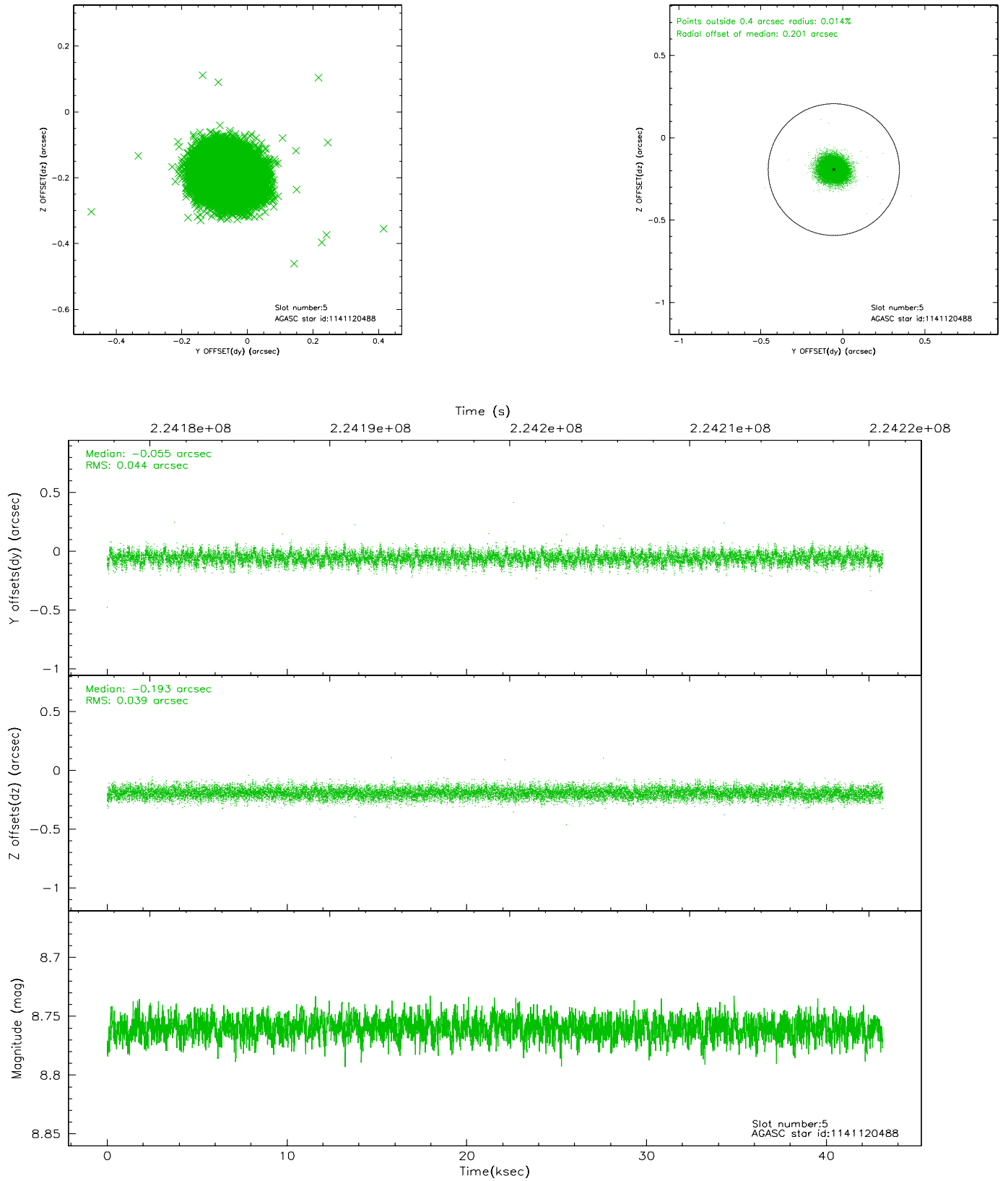
### 2.4.1 Slot 3



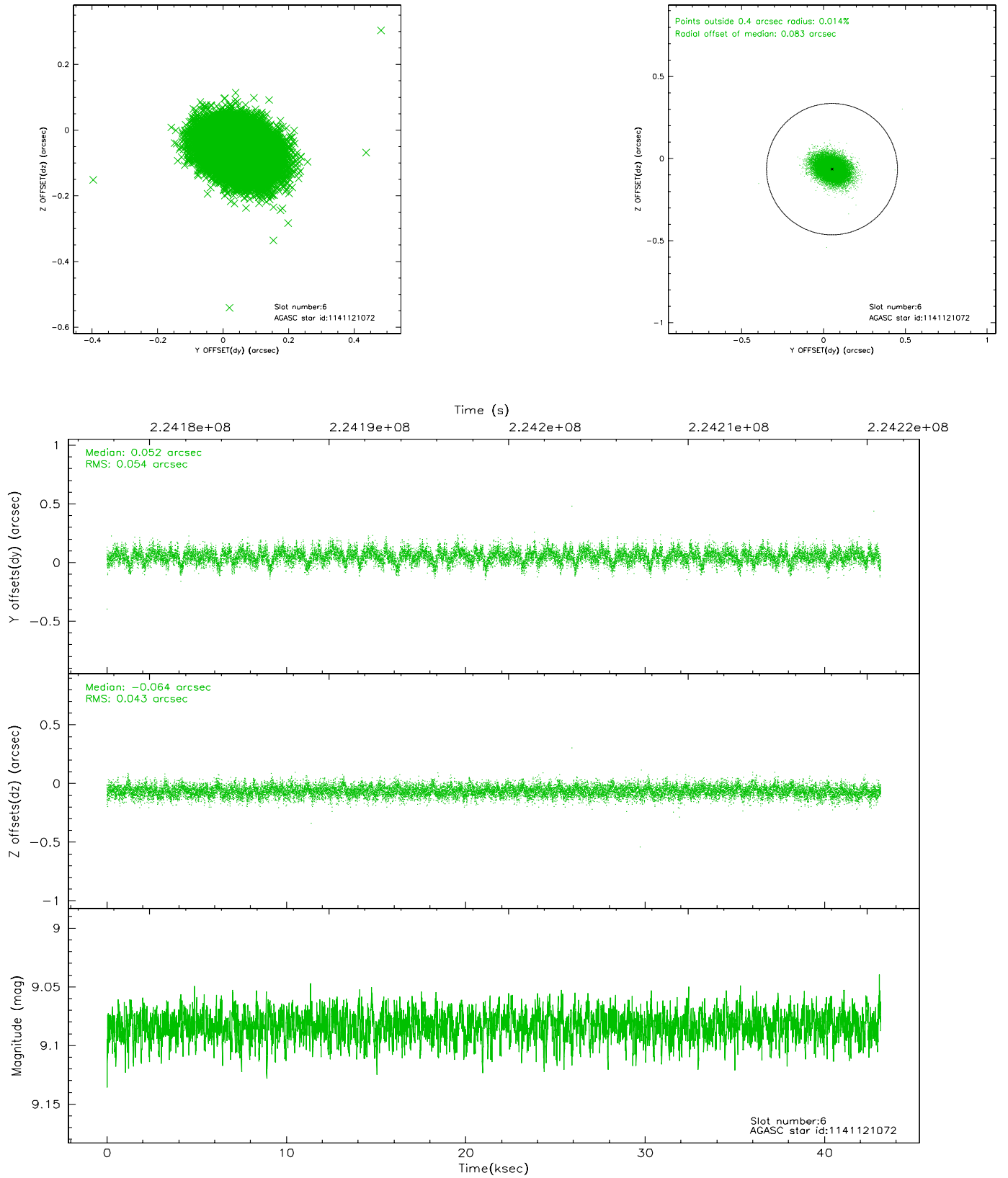
## 2.4.2 Slot 4



### 2.4.3 Slot 5

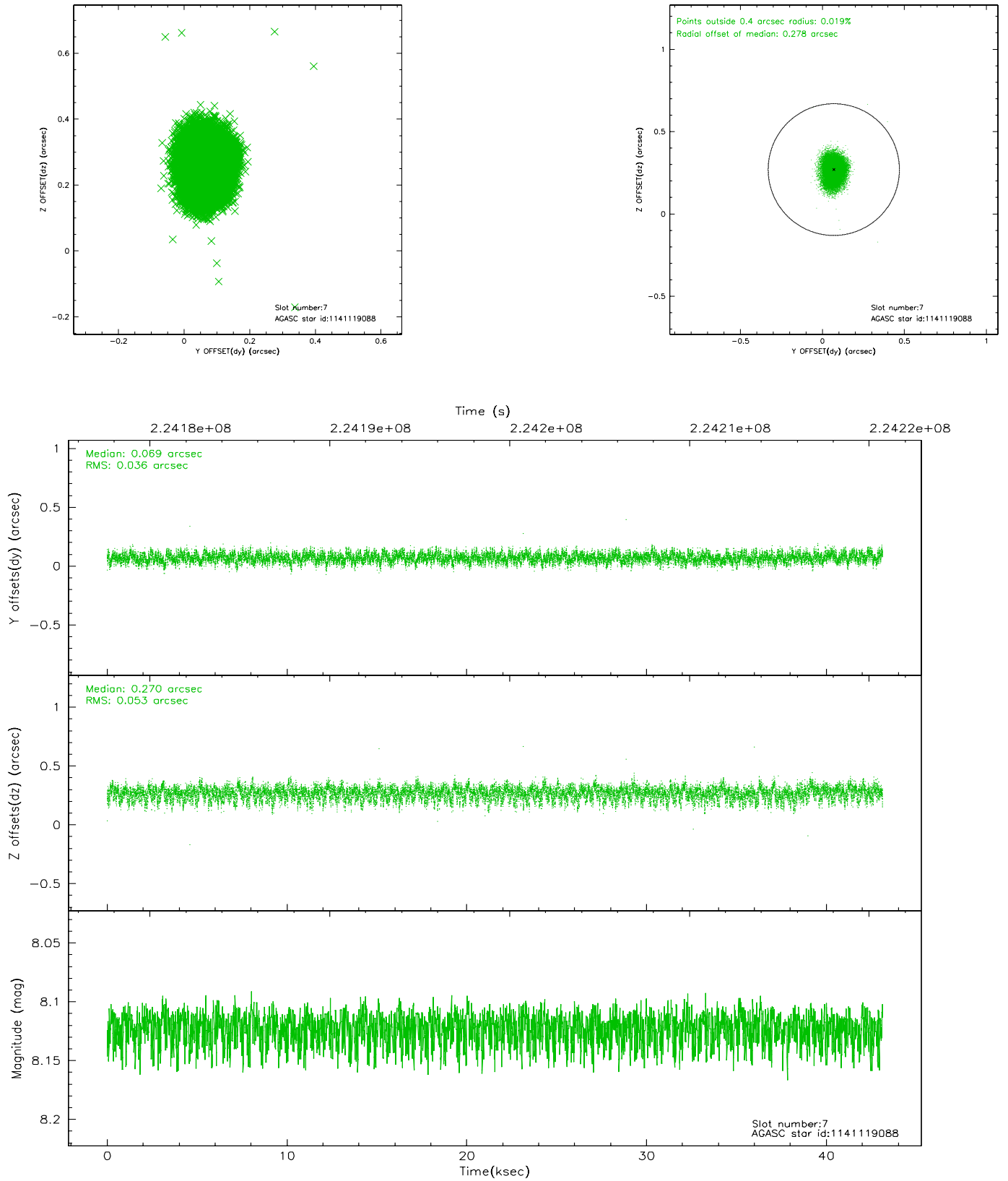


## 2.4.4 Slot 6



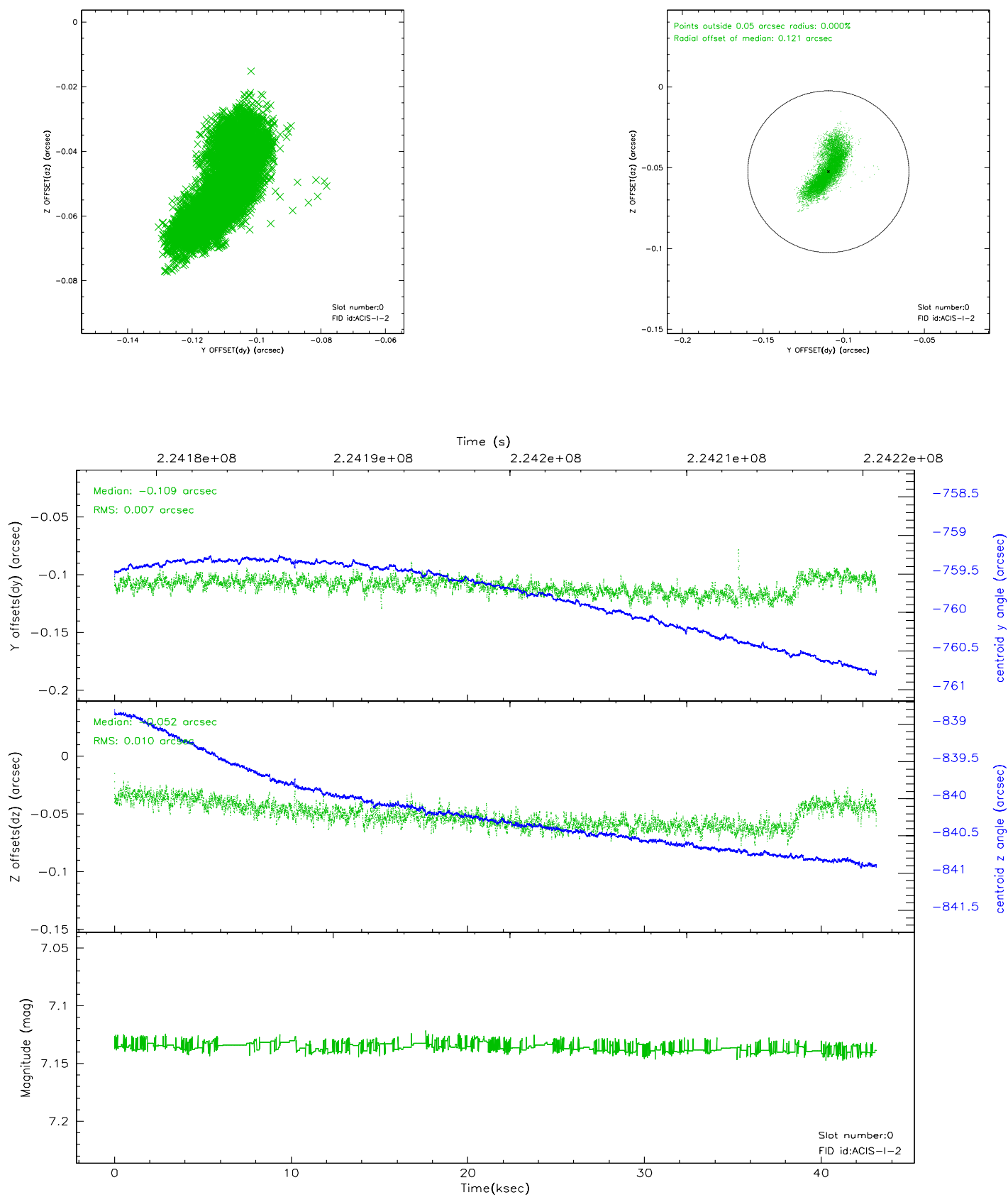


## 2.4.5 Slot 7

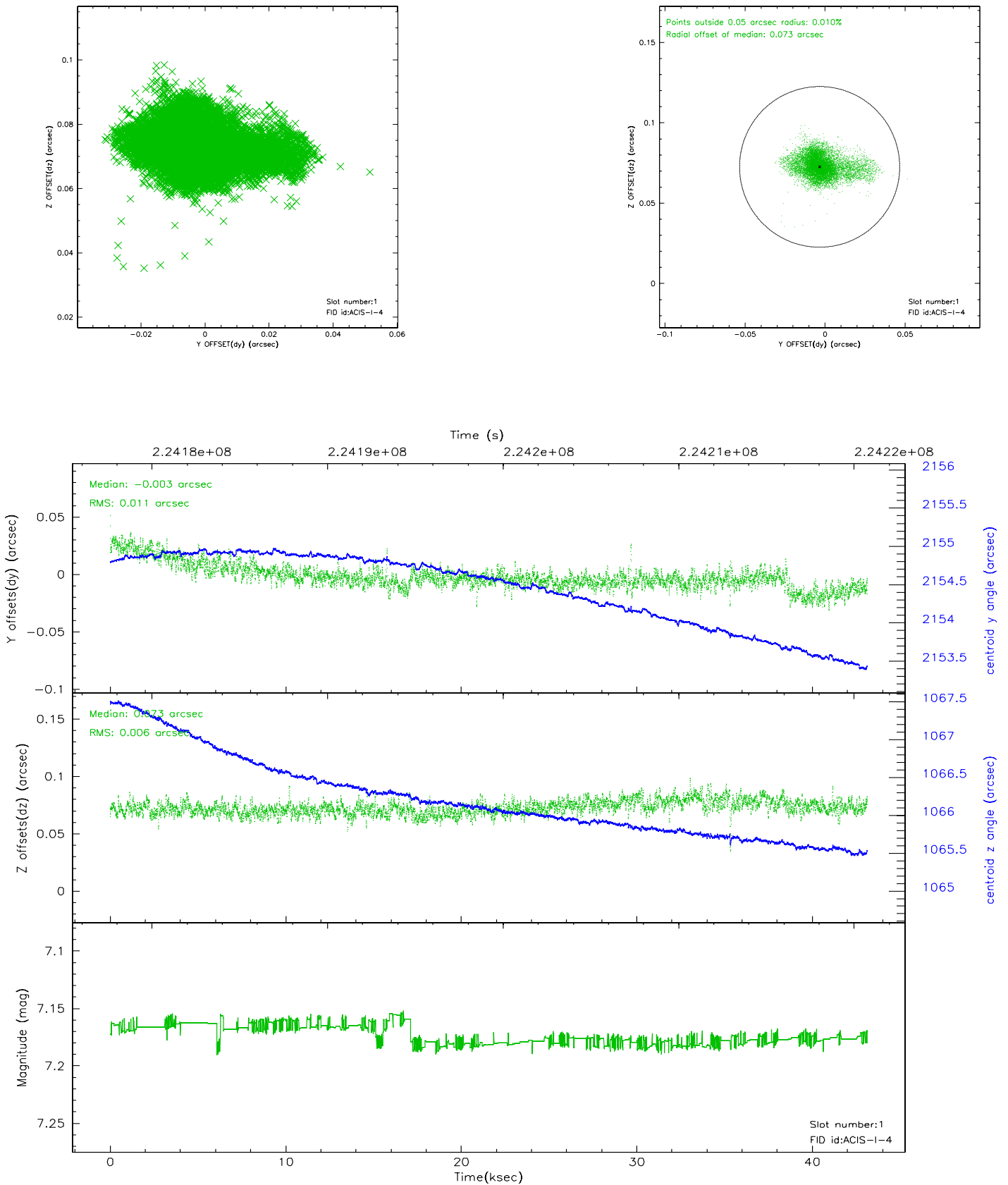


## 2.5 FID Slots

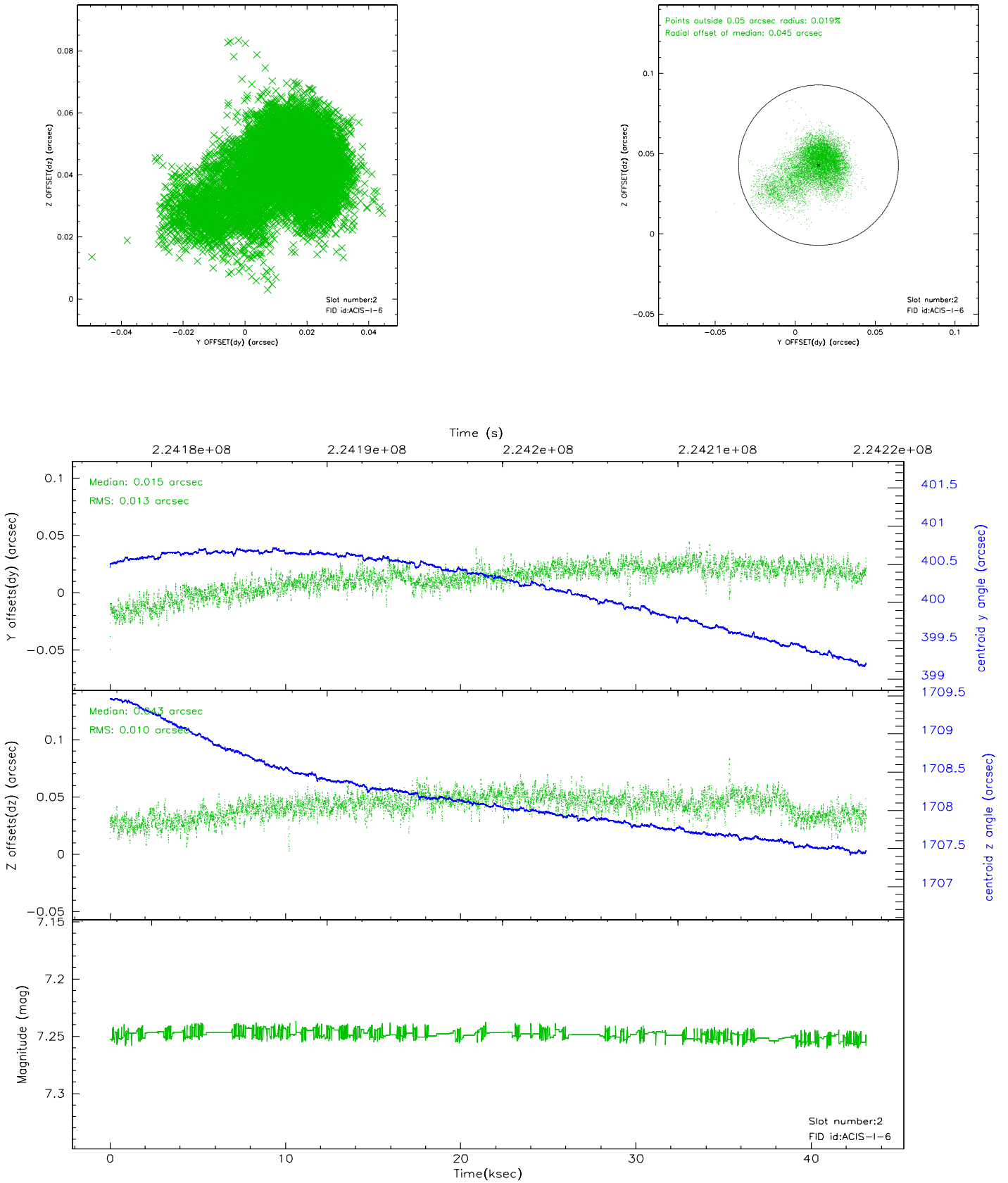
### 2.5.1 Slot 0



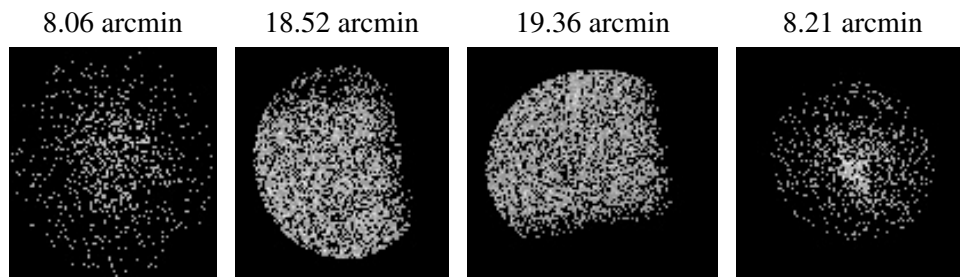
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.13275

### A.2 Comments