

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 2452 - L2 Version 001  
Chandra X-Ray Center

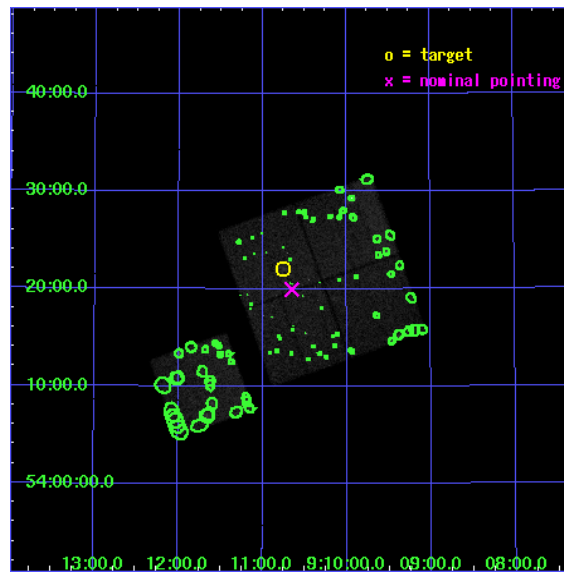
L2 Processing Date : Jul 3 2006

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# 1 Front

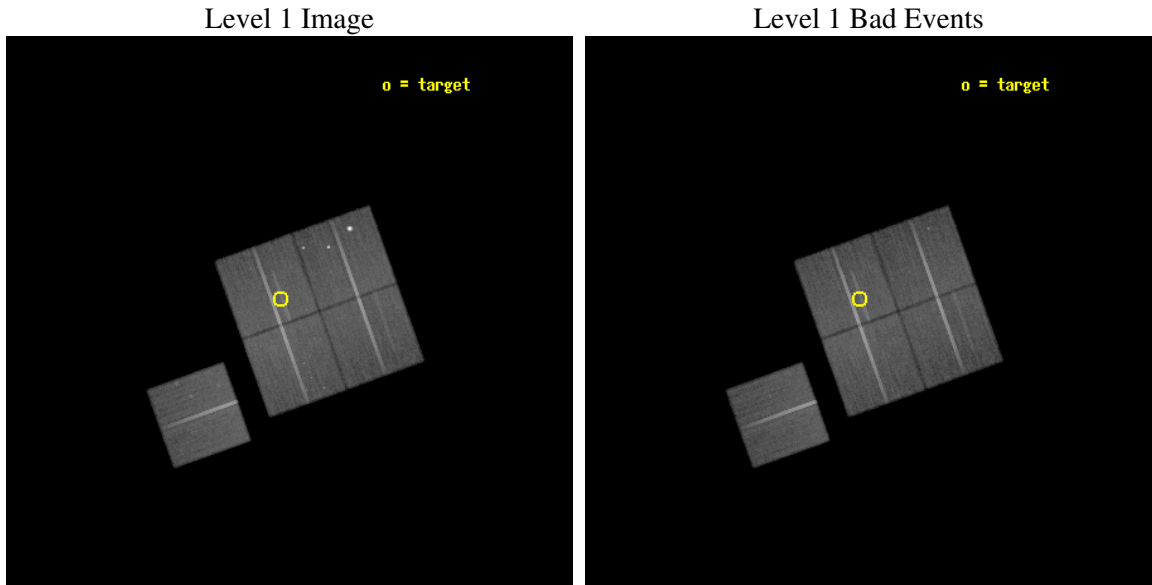
seq_num	800166
obs_id	2452
title	A COMPLETE X-RAY CLUSTER SAMPLE AT $Z > 0.8$
observer	Dr. Spencer Stanford
object	RX J0910+5422
dtcycle	0
cycle	P
ra_targ	137.689208
dec_targ	54.368056
ra_nom	137.66292364891
dec_nom	54.332525075954
roll_nom	250.3466672313
revision	2
ontime	66175.658882588
livetime	65311.025181476
ontime0	59727.189521626
ontime1	66166.235971957
ontime2	66172.517962262
ontime3	66175.658882588
ontime6	66166.236081704
l2events	174508



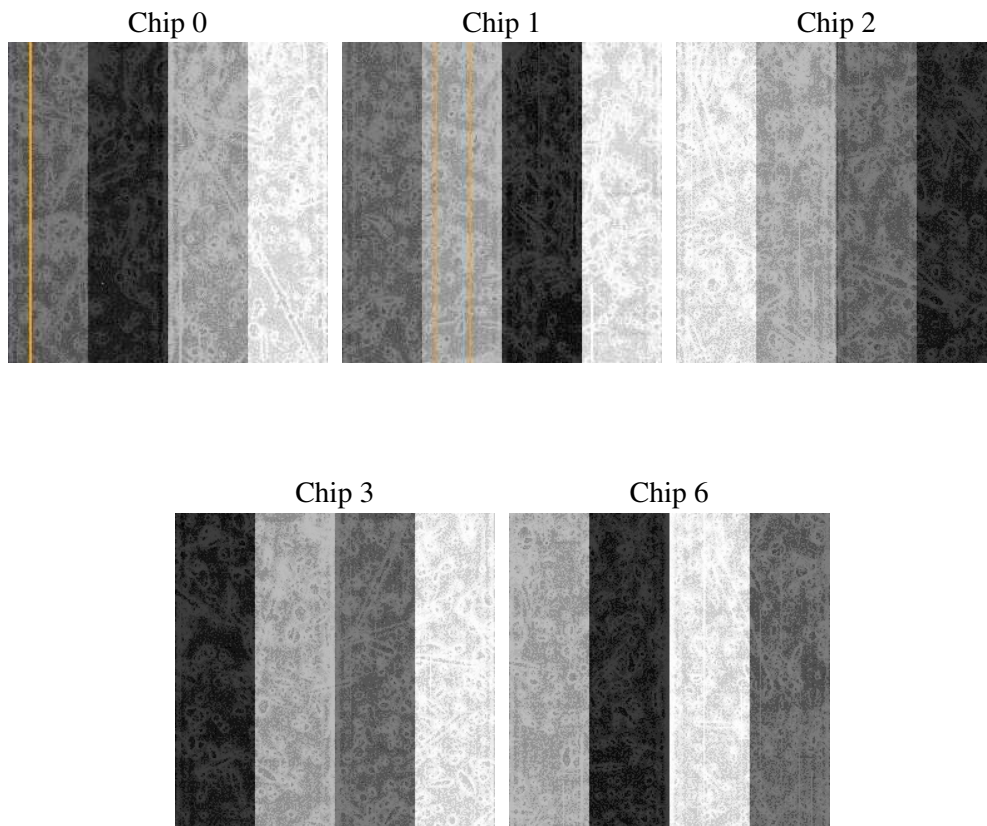
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.8
caldsver	3.2.2
date	2006-07-02T19:58:28
revision	2

sched_exp_time	66070.597000
ontime	66180.839390188
ontime0	59732.370029226
ontime1	66171.416479558
ontime2	66177.698469862
ontime3	66180.839390188
ontime6	66171.416589305
l1events	1841434

### 2.1.4 Events

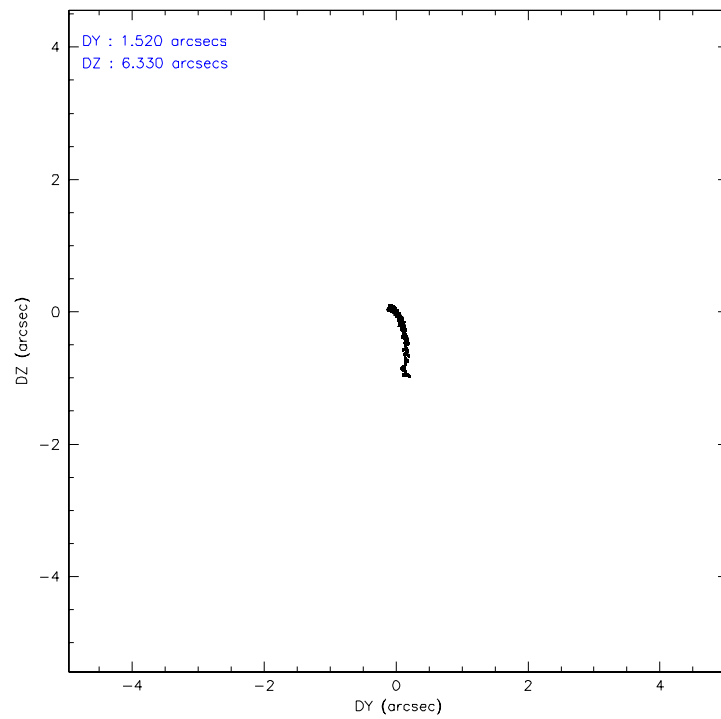
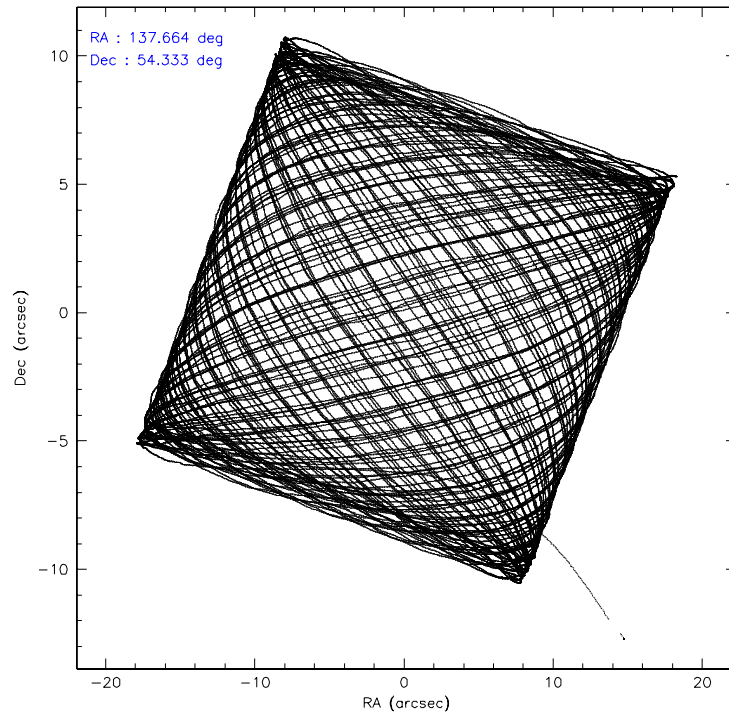
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	342208	378423	380734	376292	363777
rejected events	311445	304572	345060	343453	327189
rejected %	91%	80%	90%	91%	89%

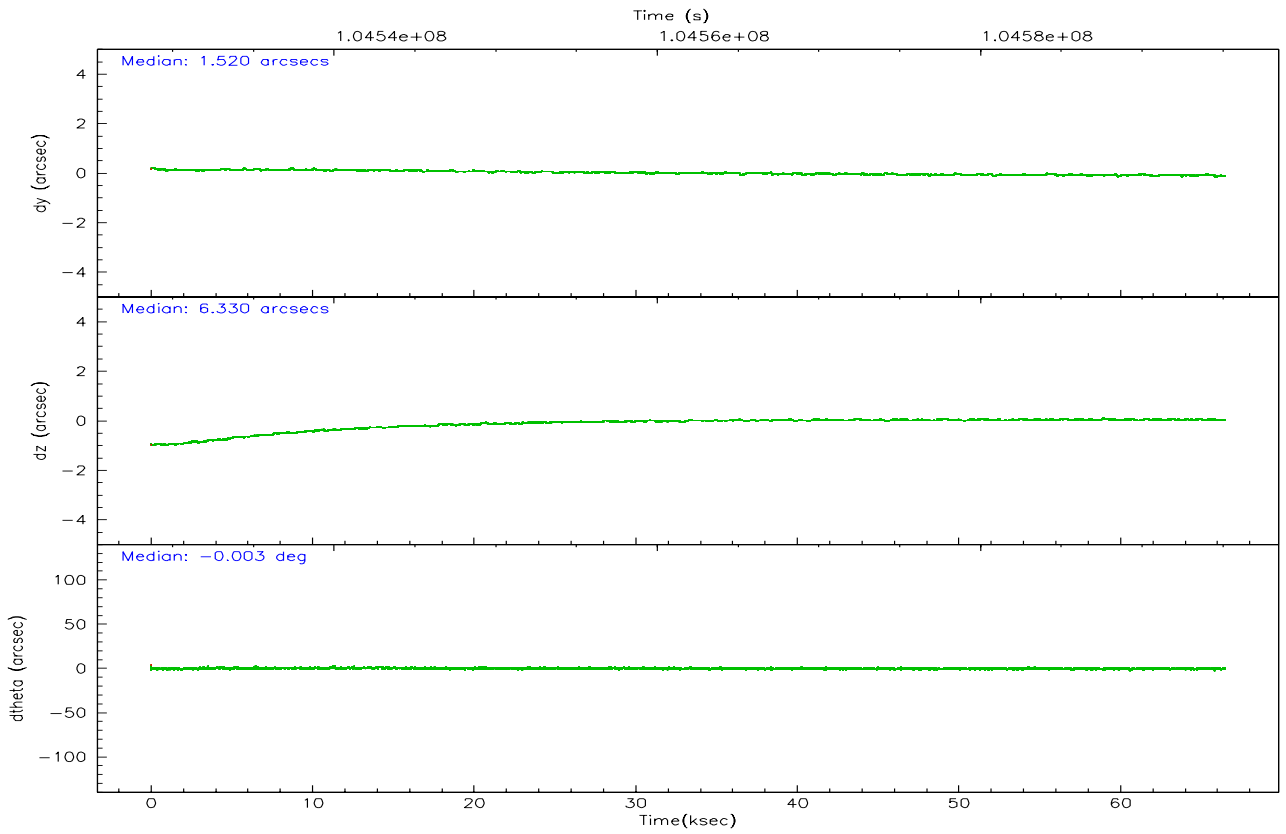
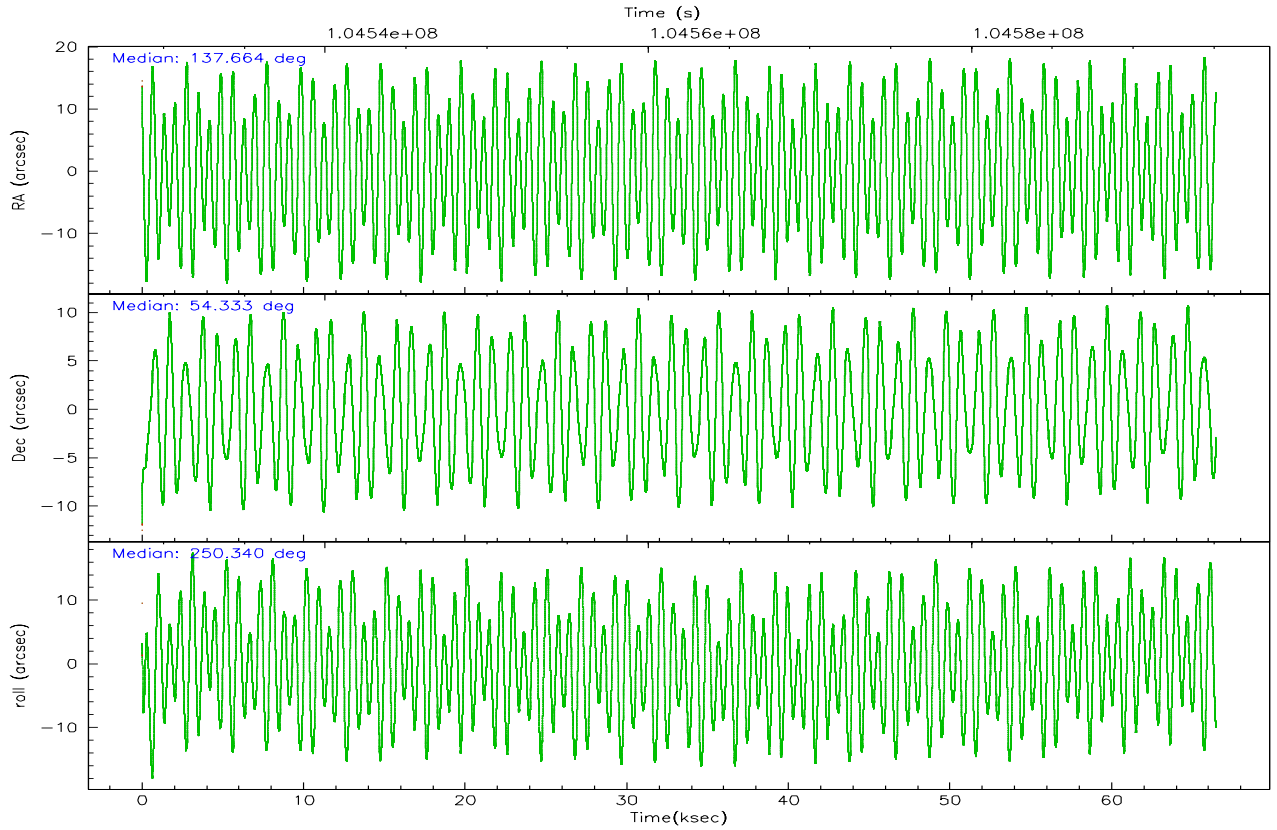
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11021	44388	13445	12026	13591
	3%	11%	3%	3%	3%
grade 1 events	198	373	150	157	131
	0%	0%	0%	0%	0%
grade 2 events	7533	10923	8045	6818	7389
	2%	2%	2%	1%	2%
grade 3 events	4046	5375	3727	3749	4243
	1%	1%	0%	0%	1%
grade 4 events	3640	5359	3888	3667	4107
	1%	1%	1%	0%	1%
grade 5 events	10610	12413	10675	12359	12790
	3%	3%	2%	3%	3%
grade 6 events	6447	7812	6571	6581	7258
	1%	2%	1%	1%	1%
grade 7 events	298713	291780	334233	330935	314268
	87%	77%	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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	137.655748	137.6629236489117	Alternating exposures requested	N	N
Pointing Dec	54.360212	54.33252507595397	Primary exposure time	0.000000	3.1
Pointing Roll	250.143803	250.346667231302			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-225.592463	-225.5843688559632			
SIM translation stage offset (mm)	-8	-8.008084146966468			
Observation start time	104529069.184000	104528030.21796			
Observation start date	2001-04-24T19:50:05	2001-04-24T19:33:50			
Observation end time	104595140.184000	104596480.74562			
Observation end date	2001-04-25T14:11:16	2001-04-25T14:34:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



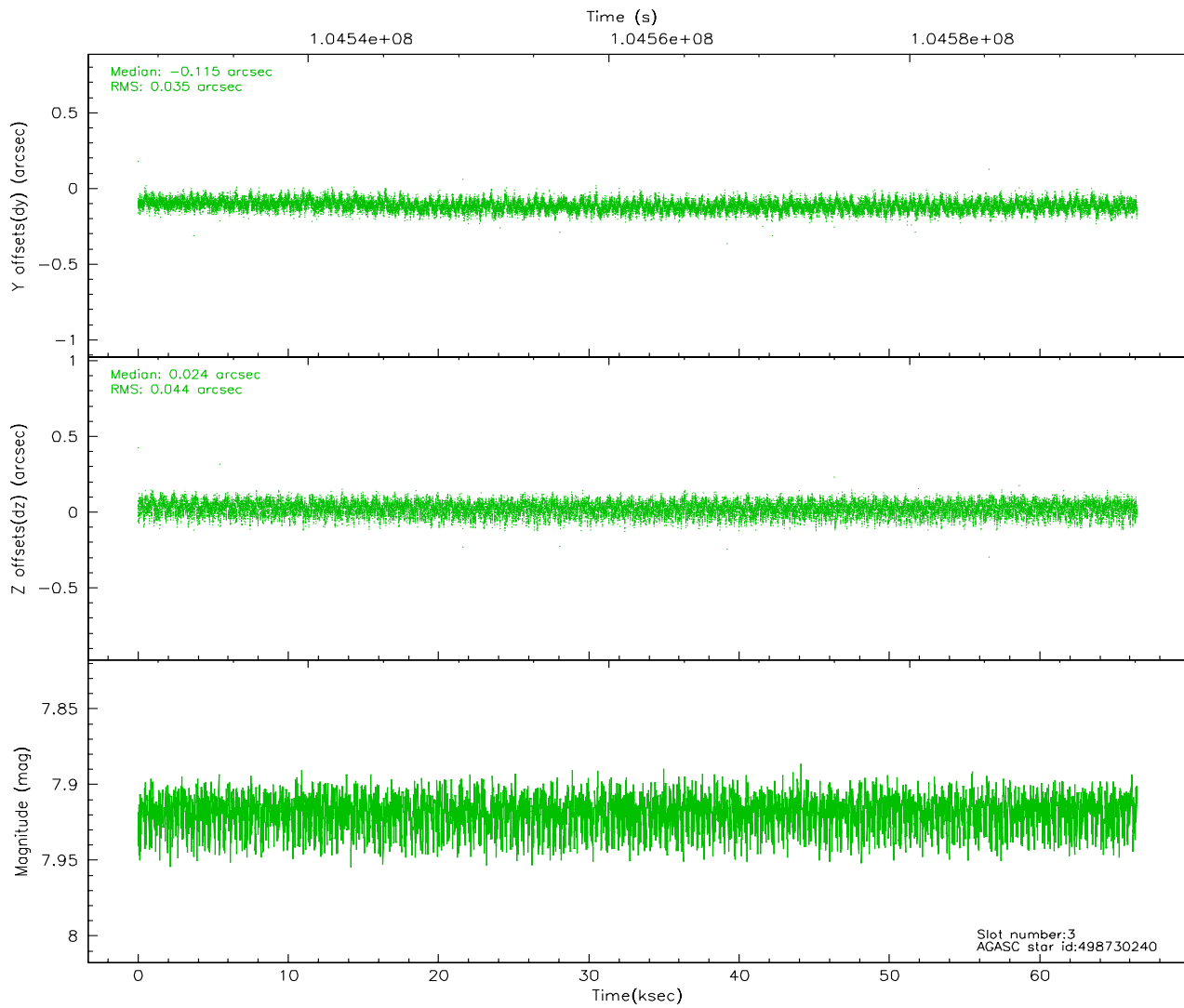
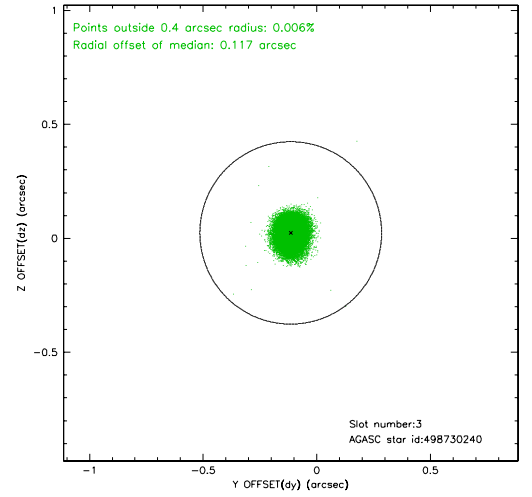
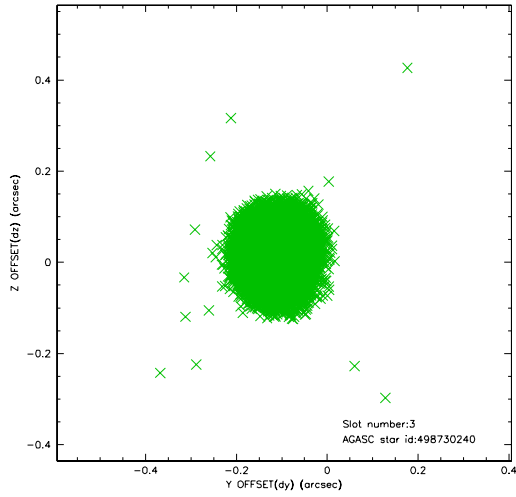


### Slot Statistics

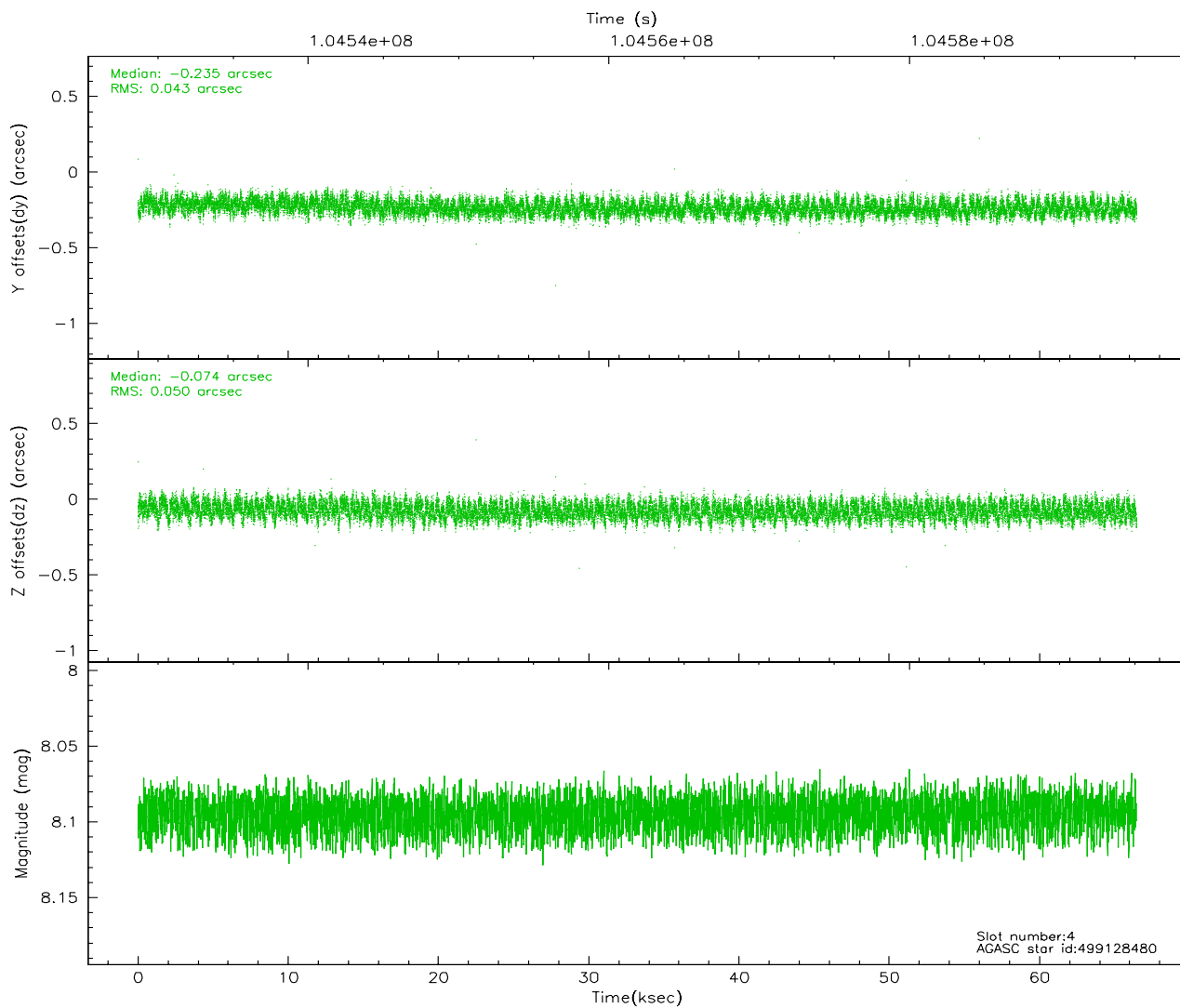
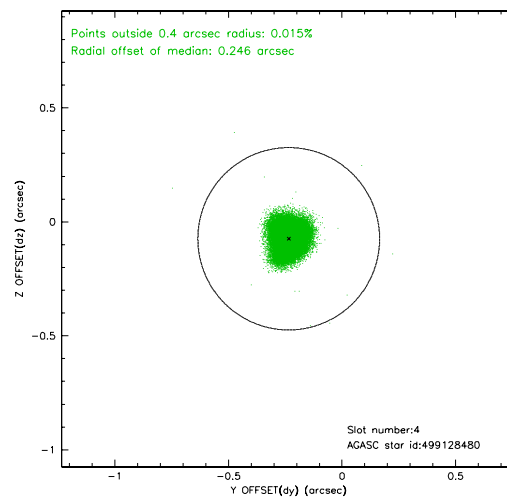
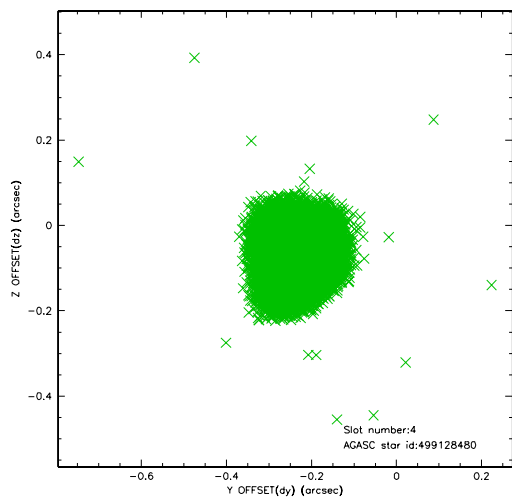
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.18	16212	-0.046	-0.019	0.011	0.019	0.000000	0.000000	-756.48	-999.29
1	FID	ACIS-I-4	7.16	16211	-0.064	0.039	0.010	0.032	0.000000	0.000000	2157.53	906.92
2	FID	ACIS-I-5	7.22	16212	0.011	0.049	0.011	0.020	0.000000	0.000000	-1809.91	903.68
3	GUIDE	498730240	7.92	32419	-0.115	0.024	0.061	0.095	137.555130	54.978650	-2023.10	-952.37
4	GUIDE	499128480	8.09	32424	-0.235	-0.074	0.071	0.109	137.142448	55.084845	-2097.73	-1882.75
5	GUIDE	498736832	9.17	32407	0.174	-0.057	0.084	0.134	136.584577	54.003311	1962.79	-1701.20
6	GUIDE	498862256	9.39	32414	0.032	0.116	0.120	0.189	138.592031	54.068839	302.76	2212.02
7	GUIDE	498733648	9.53	32404	0.144	-0.001	0.109	0.178	136.625659	54.306009	904.28	-1974.04

## 2.4 Star Slots

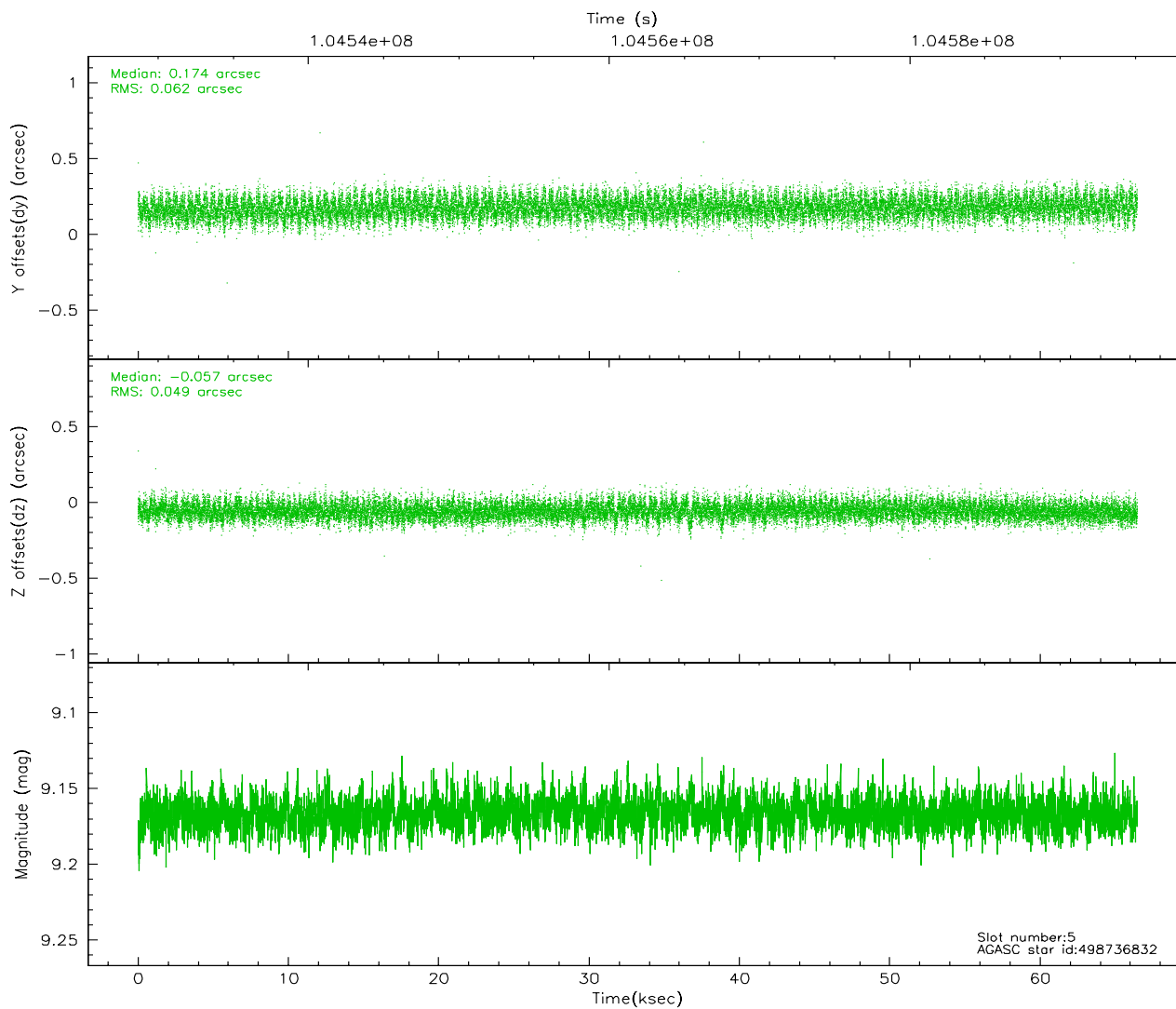
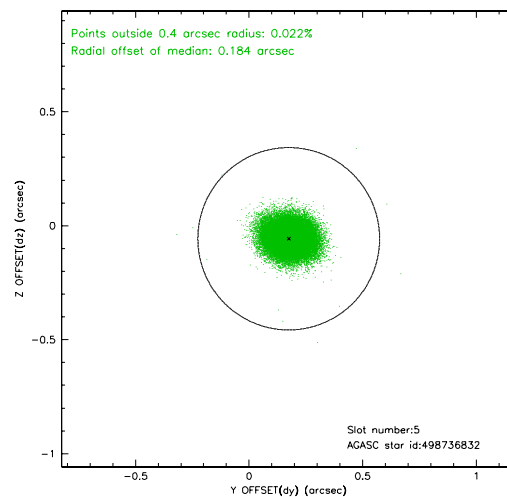
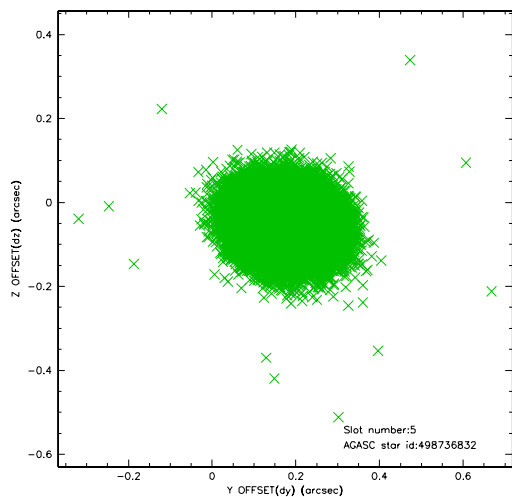
### 2.4.1 Slot 3



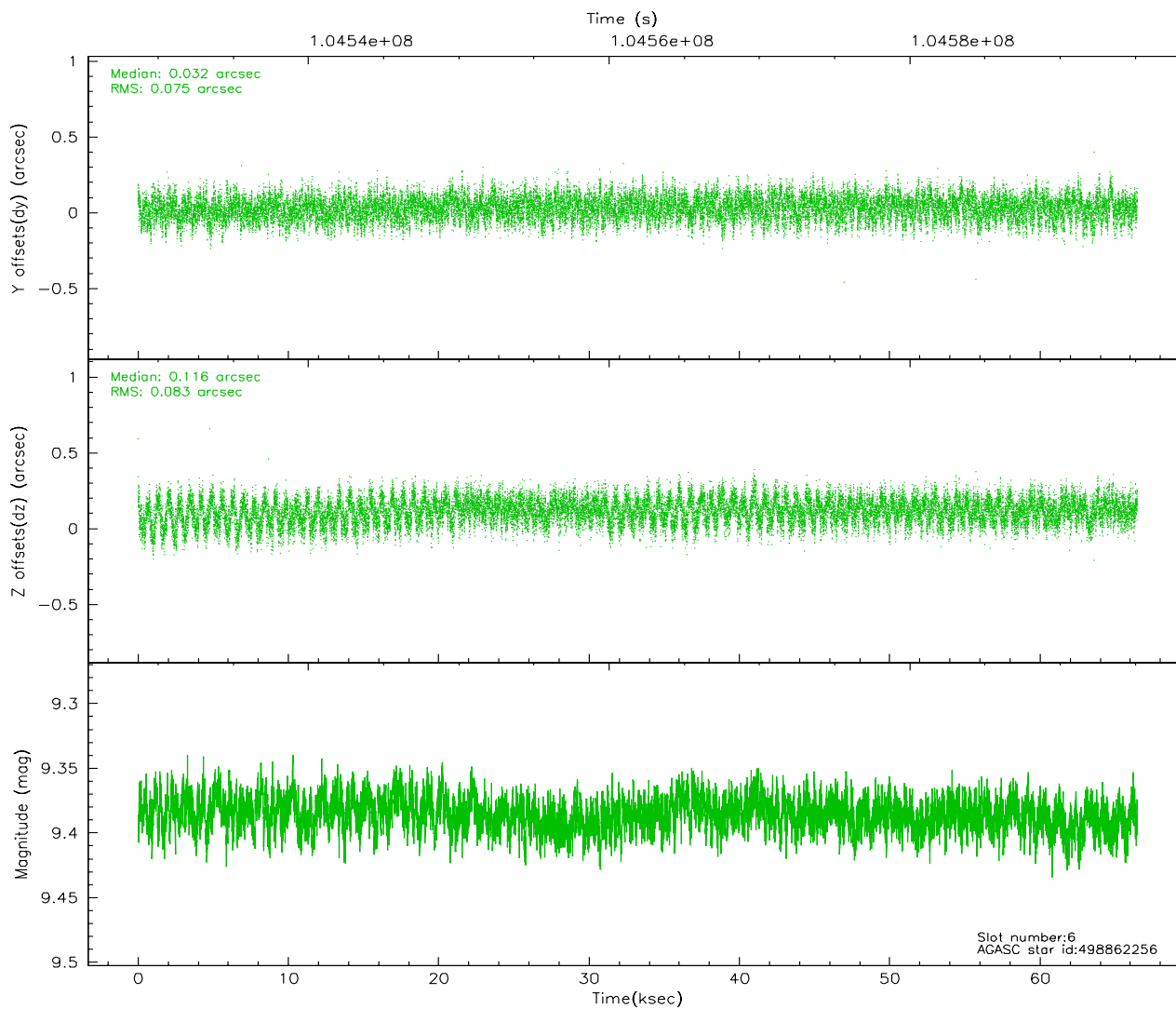
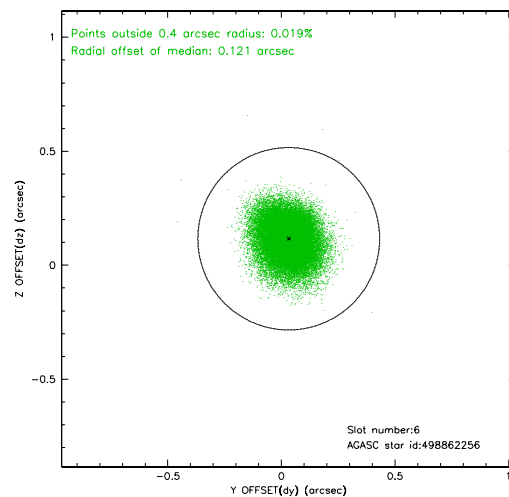
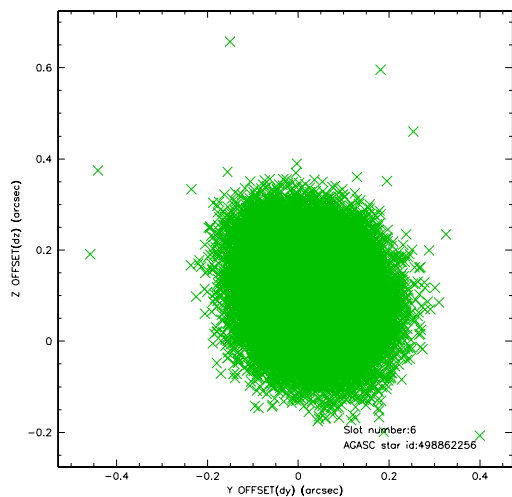
## 2.4.2 Slot 4



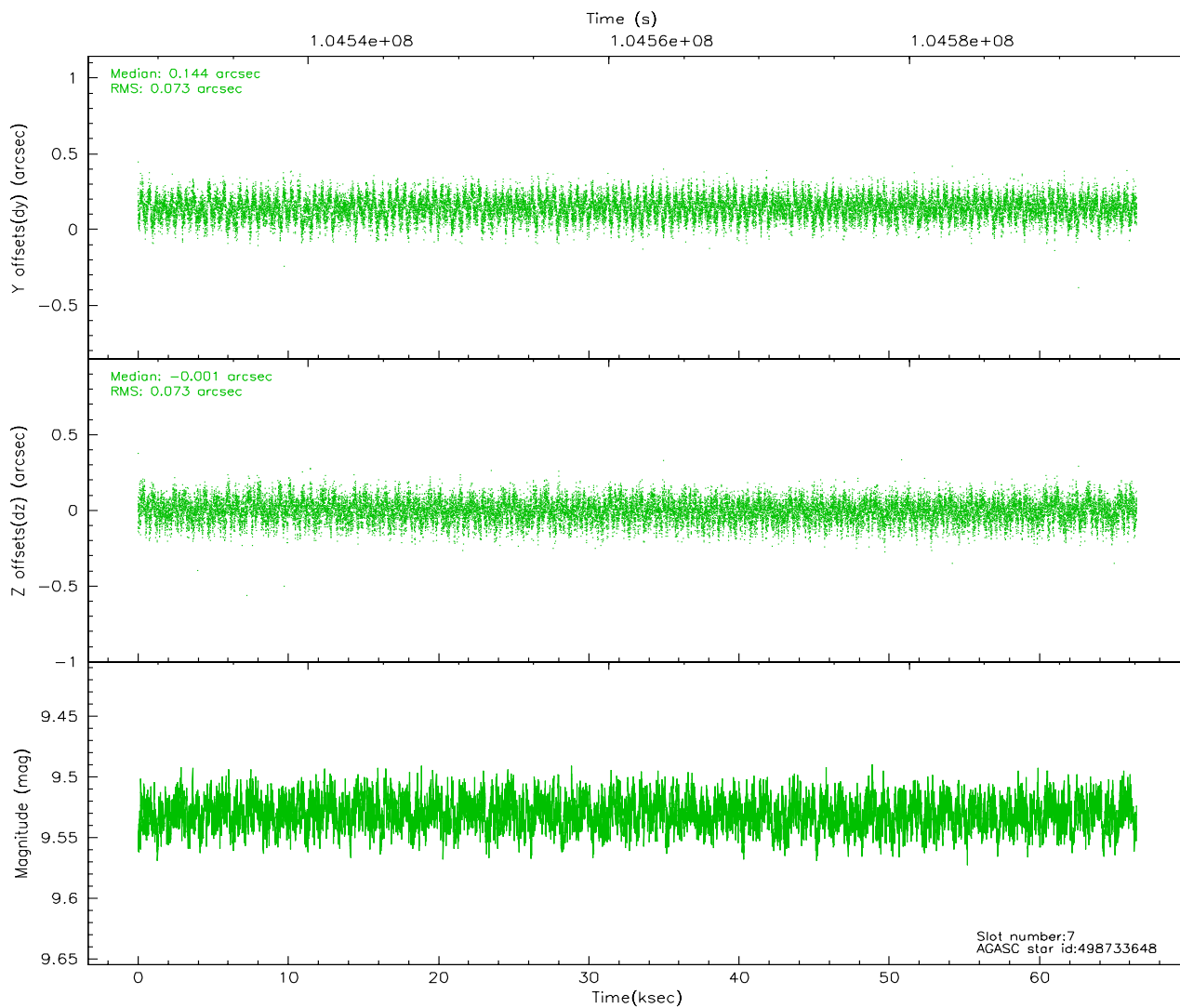
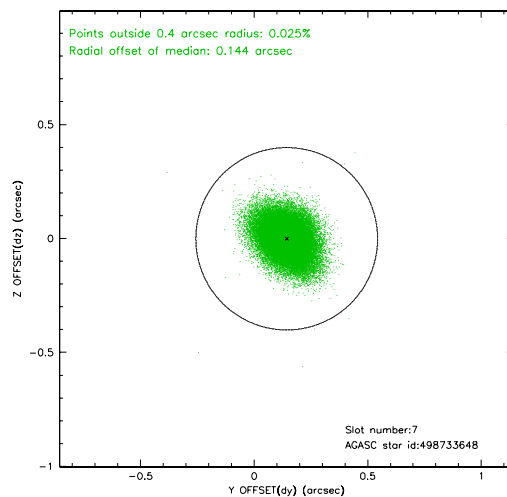
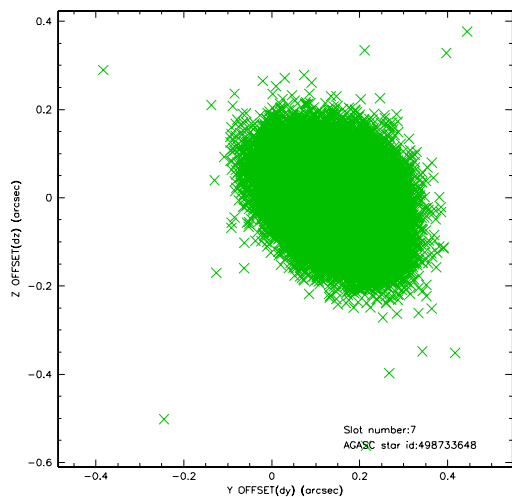
### 2.4.3 Slot 5



### 2.4.4 Slot 6

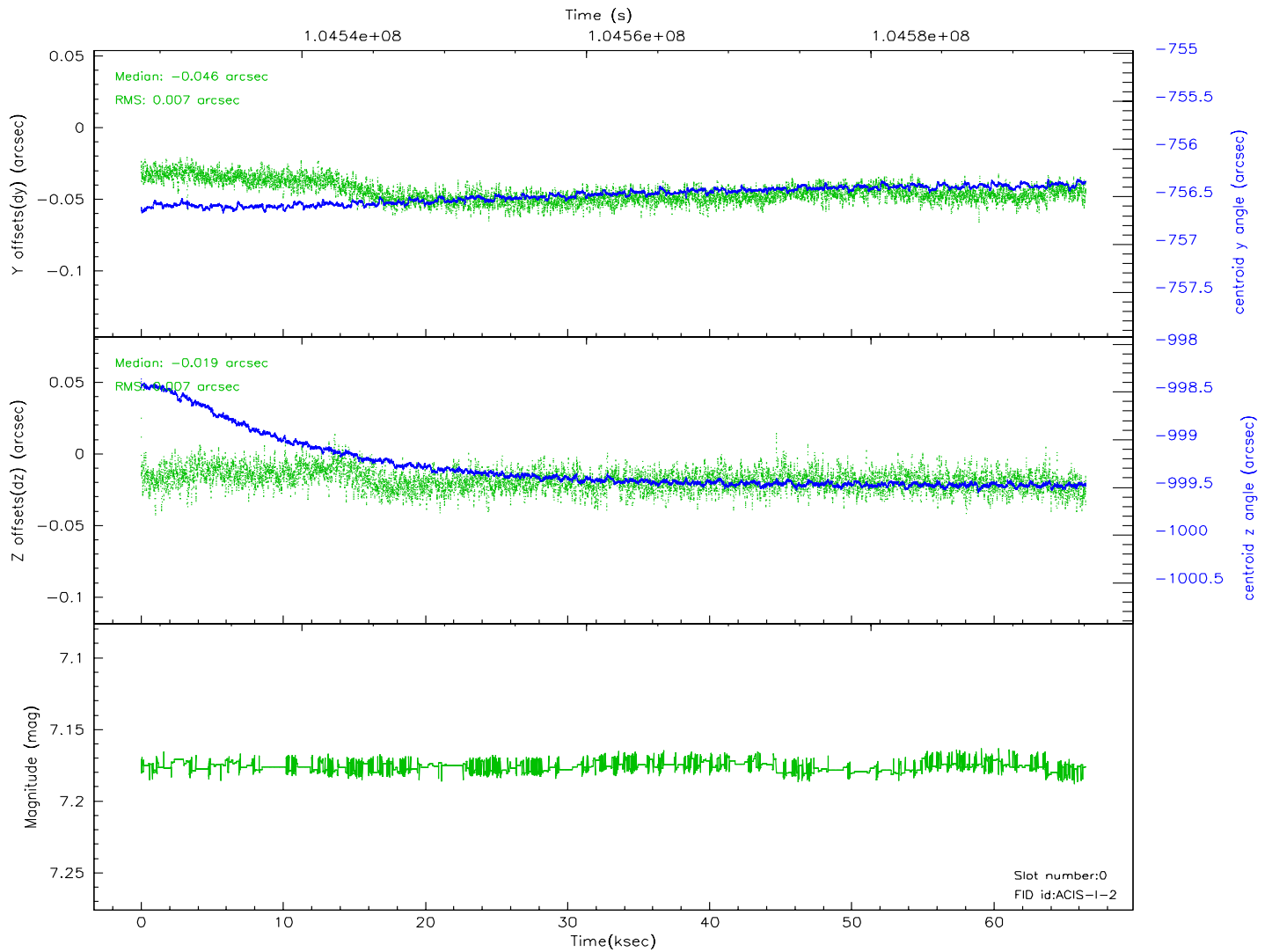
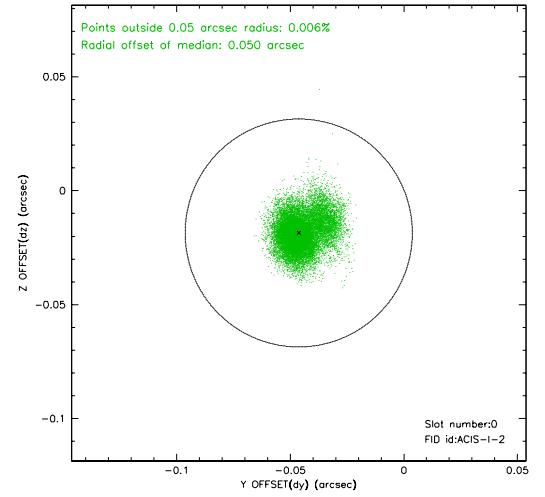
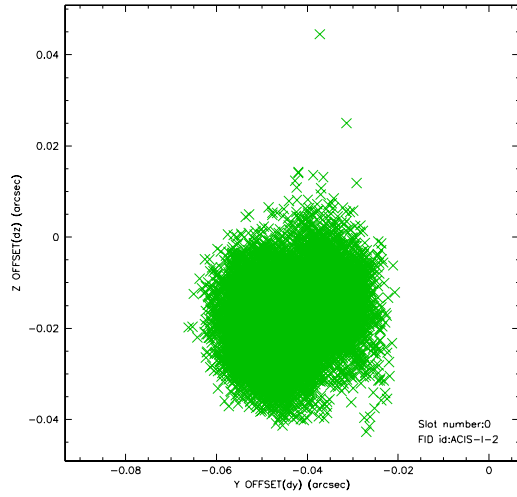


## 2.4.5 Slot 7

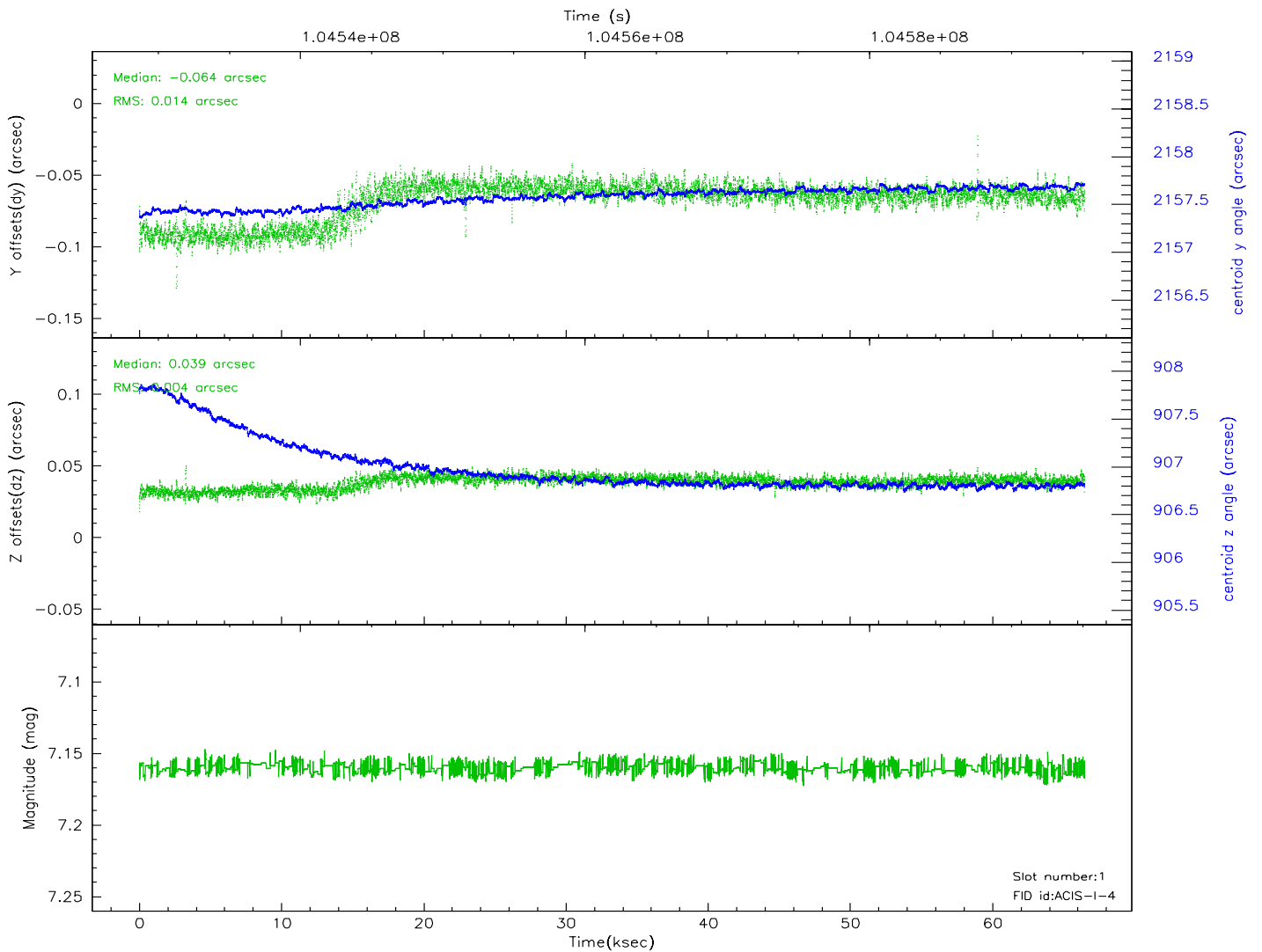
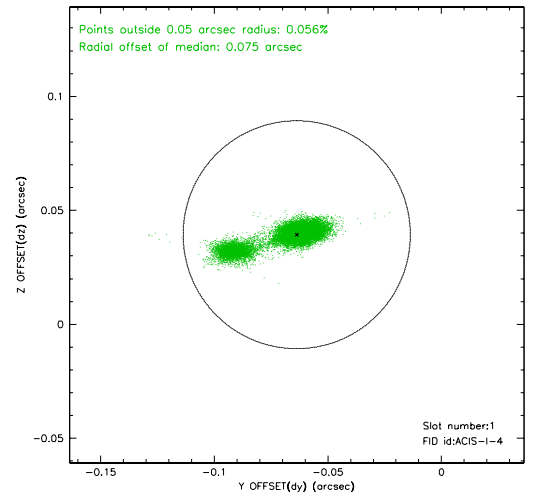
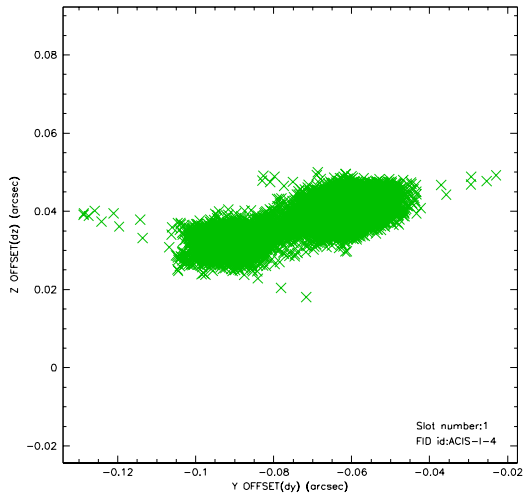


## 2.5 FID Slots

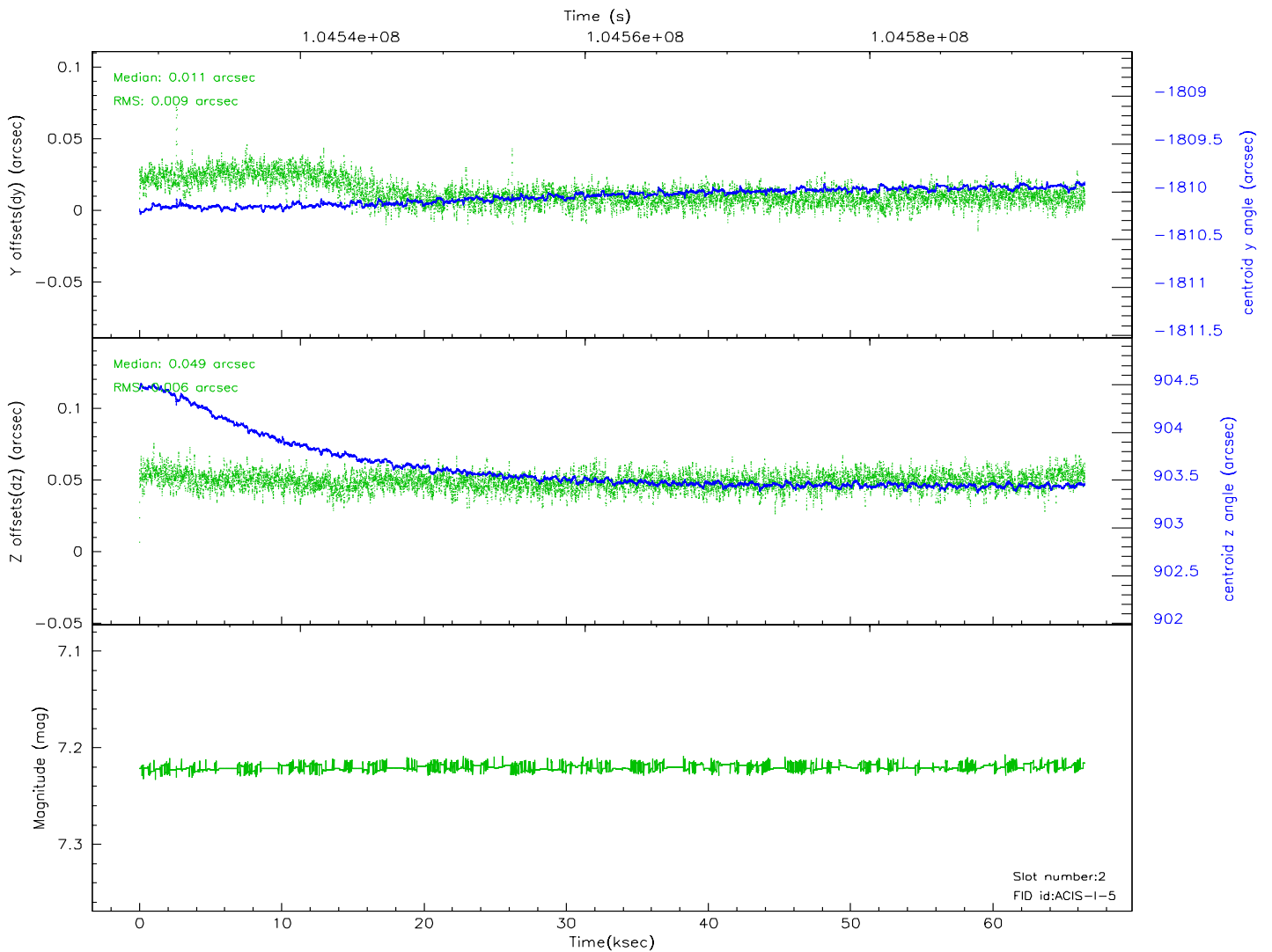
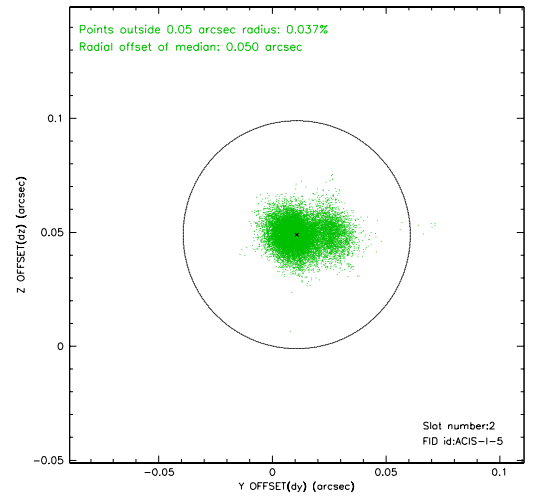
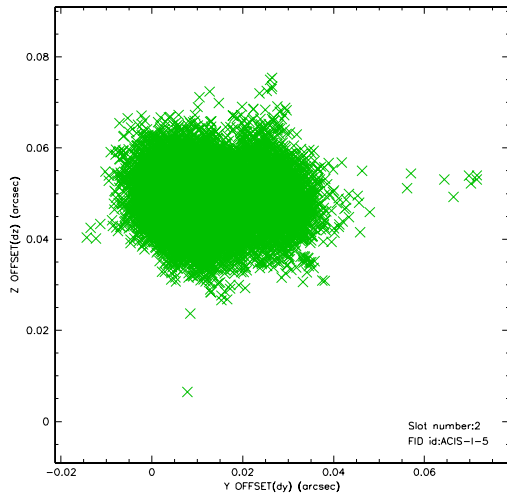
### 2.5.1 Slot 0



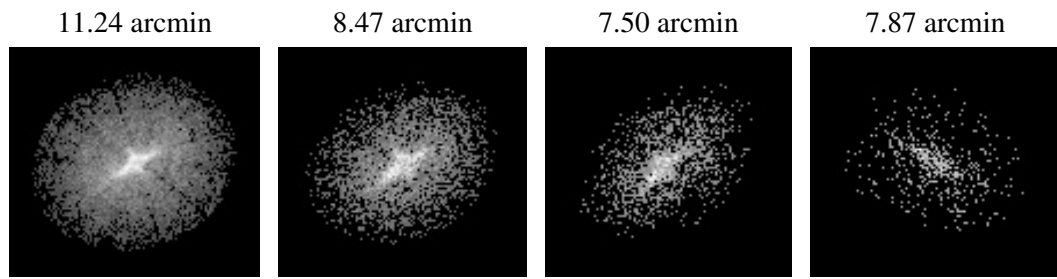
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	66.169

## A.2 Comments

In the raw telemetry data, a bit was flipped, mostly likely due to a SSR

double bit error. This caused a jump in exposure number (expno) in `exr0.fits` and in turn resulted in incorrect and unnecessary non-GTIs in higher level data.

In this re-processing, the expno was manually corrected. The GTIs for approximately 6 ksec for chip 0 are still marked bad.