

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2254 - L2 Version 001  
Chandra X-Ray Center

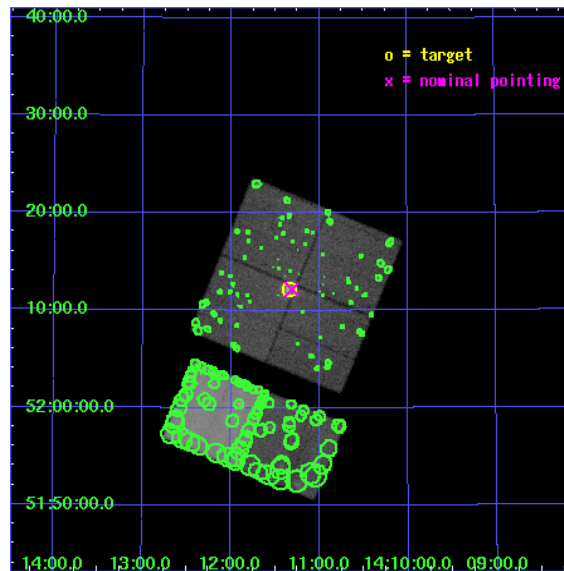
L2 Processing Date : Nov 21 2006

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# 1 Front

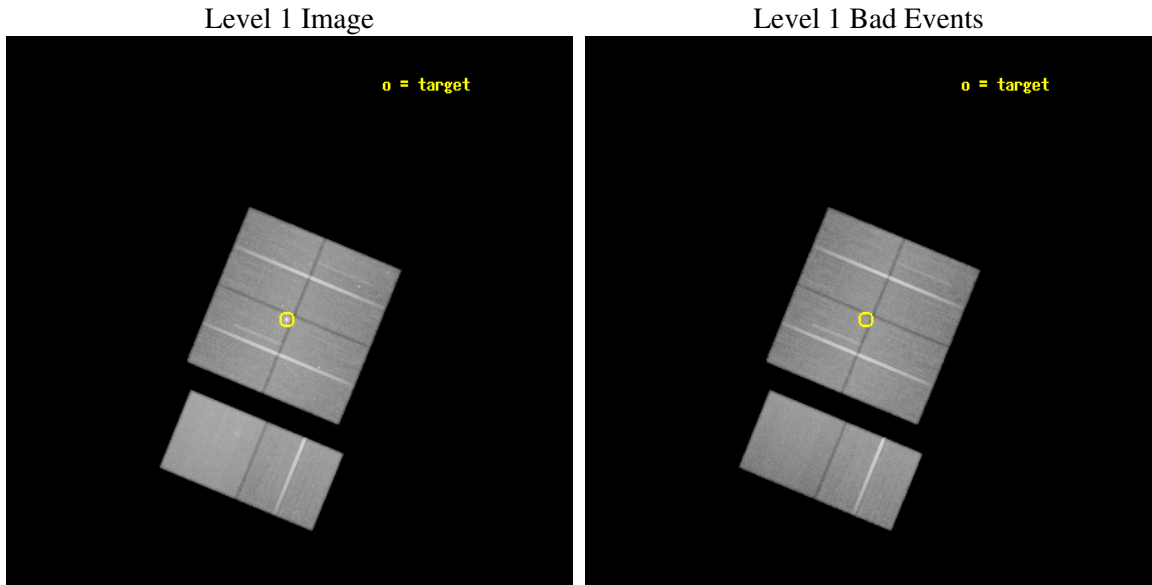
seq_num	900081
obs_id	2254
title	USING HIGH Z CLUSTERS AS LENSES FOR VERY FAINT SOURCE STUDIES WITH CHANDRA
observer	Dr. Martin Elvis
object	3C295
dtcycle	0
cycle	P
ra_targ	212.835542
dec_targ	52.202692
ra_nom	212.82778965158
dec_nom	52.202754242471
roll_nom	202.32750568381
revision	2
ontime	92121.51816532
livetime	90955.020033392
ontime0	92121.518145397
ontime1	92115.036294669
ontime2	92111.795234725
ontime3	92121.51816532
ontime6	92115.036214873
ontime7	92128.000085801
l2events	598606



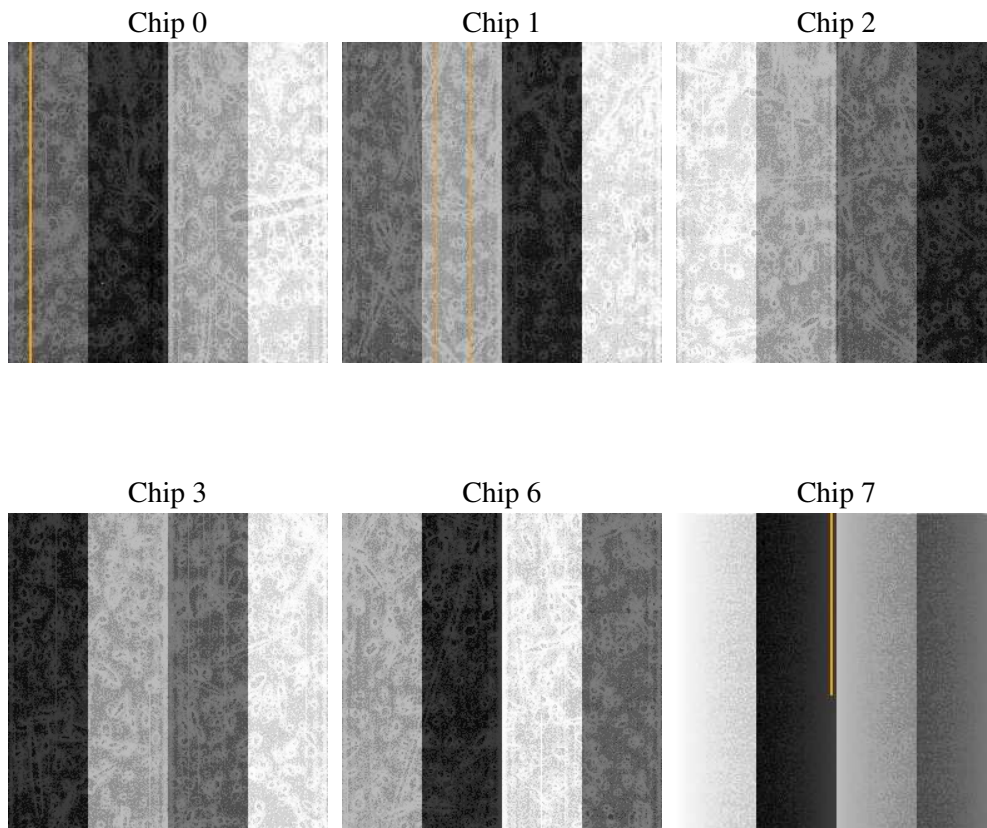
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-21T22:11:24
revision	2

sched_exp_time	92173.016000
ontime	92125.381782666
ontime0	92125.381762743
ontime1	92118.899912015
ontime2	92115.658852071
ontime3	92125.381782666
ontime6	92118.899832219
ontime7	92131.863733053
l1events	3710229

### 2.1.4 Events

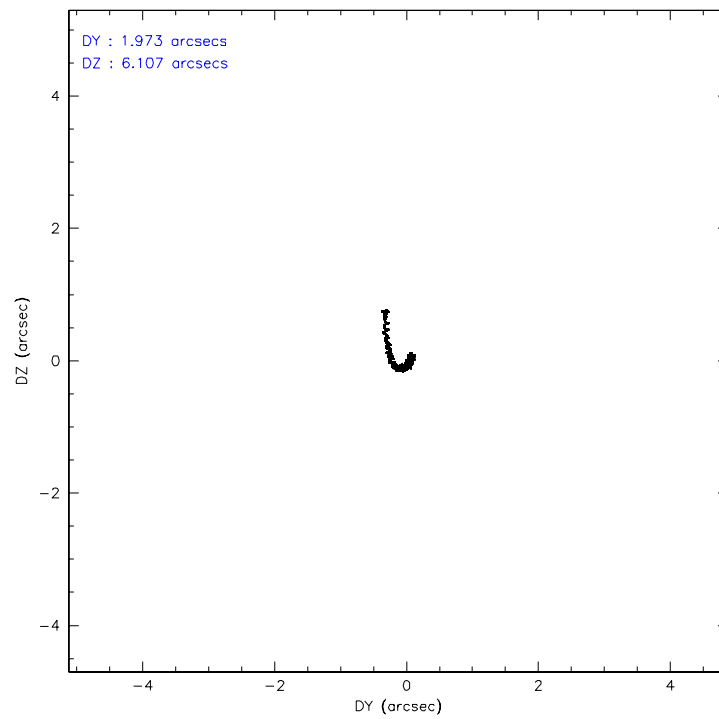
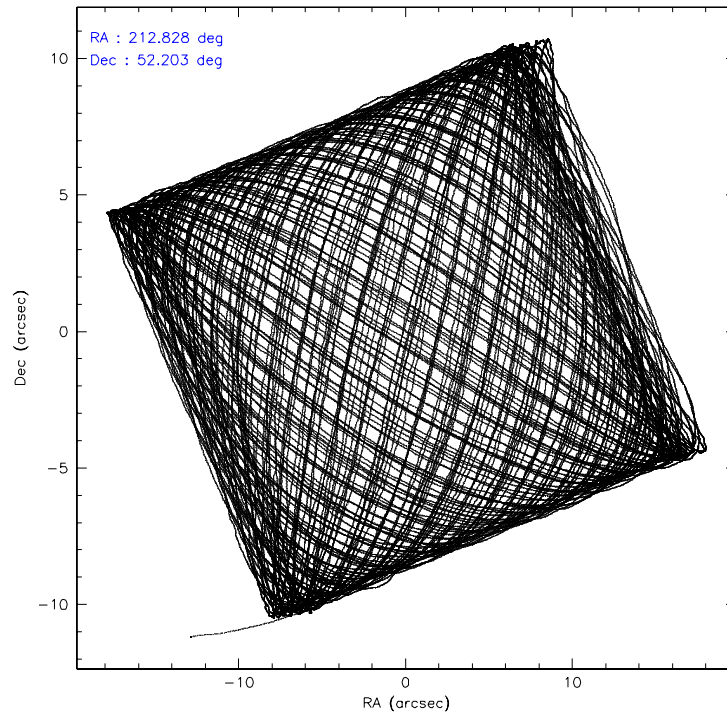
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	548177	559918	606526	606570	626021	763017
rejected events	478333	484998	538919	526812	555821	469646
rejected %	87%	86%	88%	86%	88%	61%

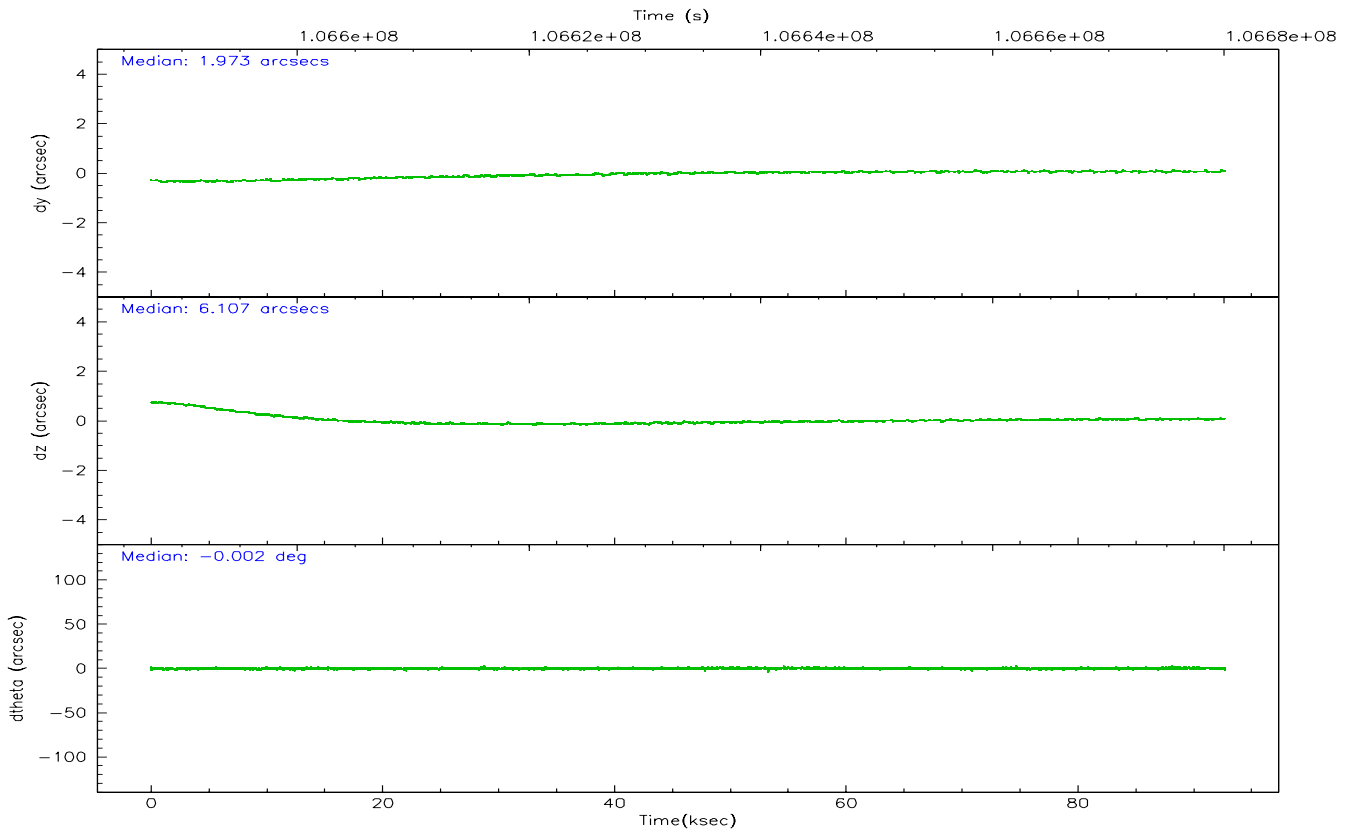
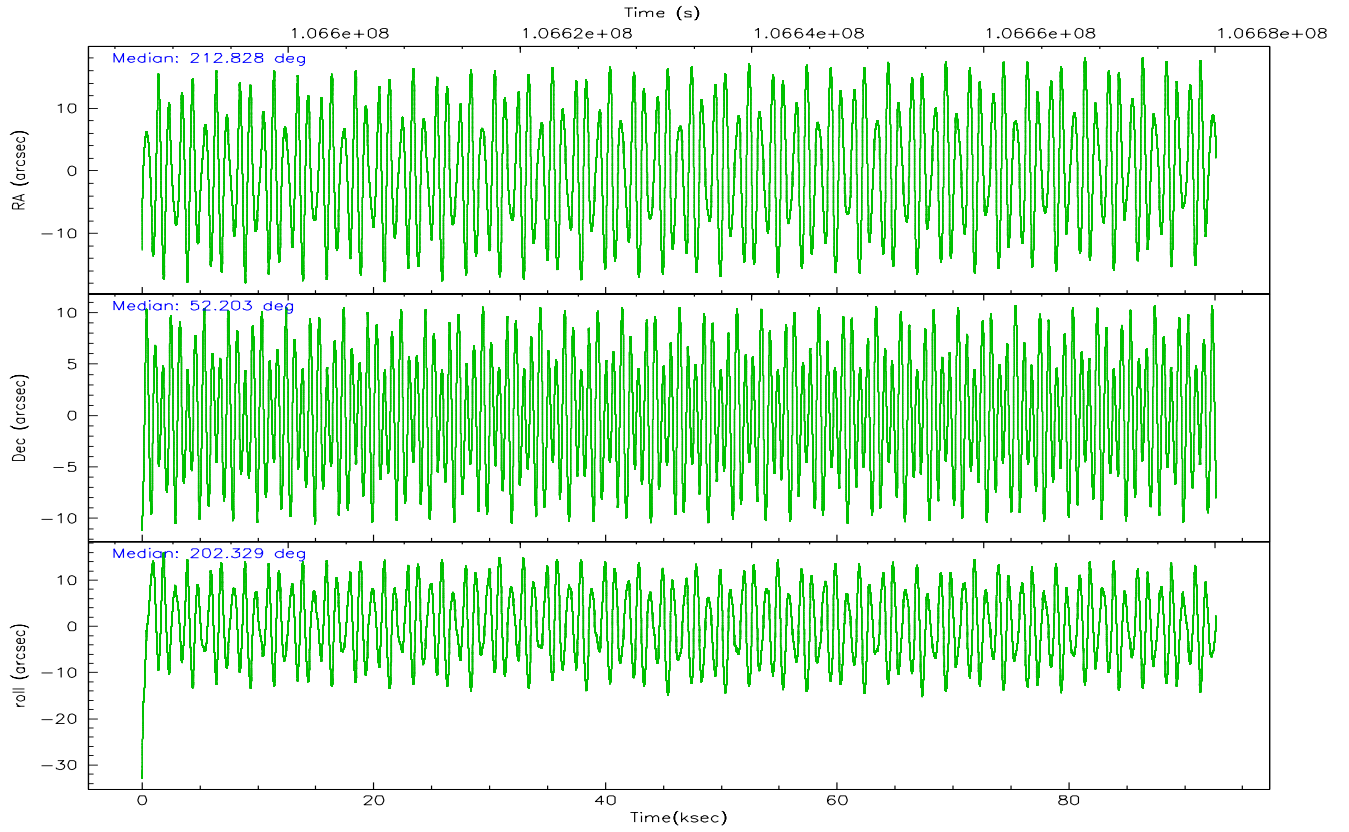
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	30041	31581	29214	39429	28658	18470
	5%	5%	4%	6%	4%	2%
grade 1 events	290	254	272	344	297	444
	0%	0%	0%	0%	0%	0%
grade 2 events	14294	14975	14451	14508	14274	71624
	2%	2%	2%	2%	2%	9%
grade 3 events	6947	7503	6330	6861	6795	15810
	1%	1%	1%	1%	1%	2%
grade 4 events	6478	7503	6089	6710	6808	15279
	1%	1%	1%	1%	1%	2%
grade 5 events	21113	23001	20200	23076	25767	51181
	3%	4%	3%	3%	4%	6%
grade 6 events	12089	13361	11524	12250	13666	172202
	2%	2%	1%	2%	2%	22%
grade 7 events	456925	461740	518446	503392	529756	418007
	83%	82%	85%	82%	84%	54%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	212.855141	212.8277896515806	Subarray requested	NONE	NONE
Pointing Dec	52.224483	52.20275424247095	Alternating exposures requested	N	N
Pointing Roll	202.097210	202.3275056838053	Primary exposure time	0.000000	3.2
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	106587898.184000	106586759.19819			
Observation start date	2001-05-18T15:43:54	2001-05-18T15:25:59			
Observation end time	106680071.184000	106680385.26433			
Observation end date	2001-05-19T17:20:07	2001-05-19T17:26:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect



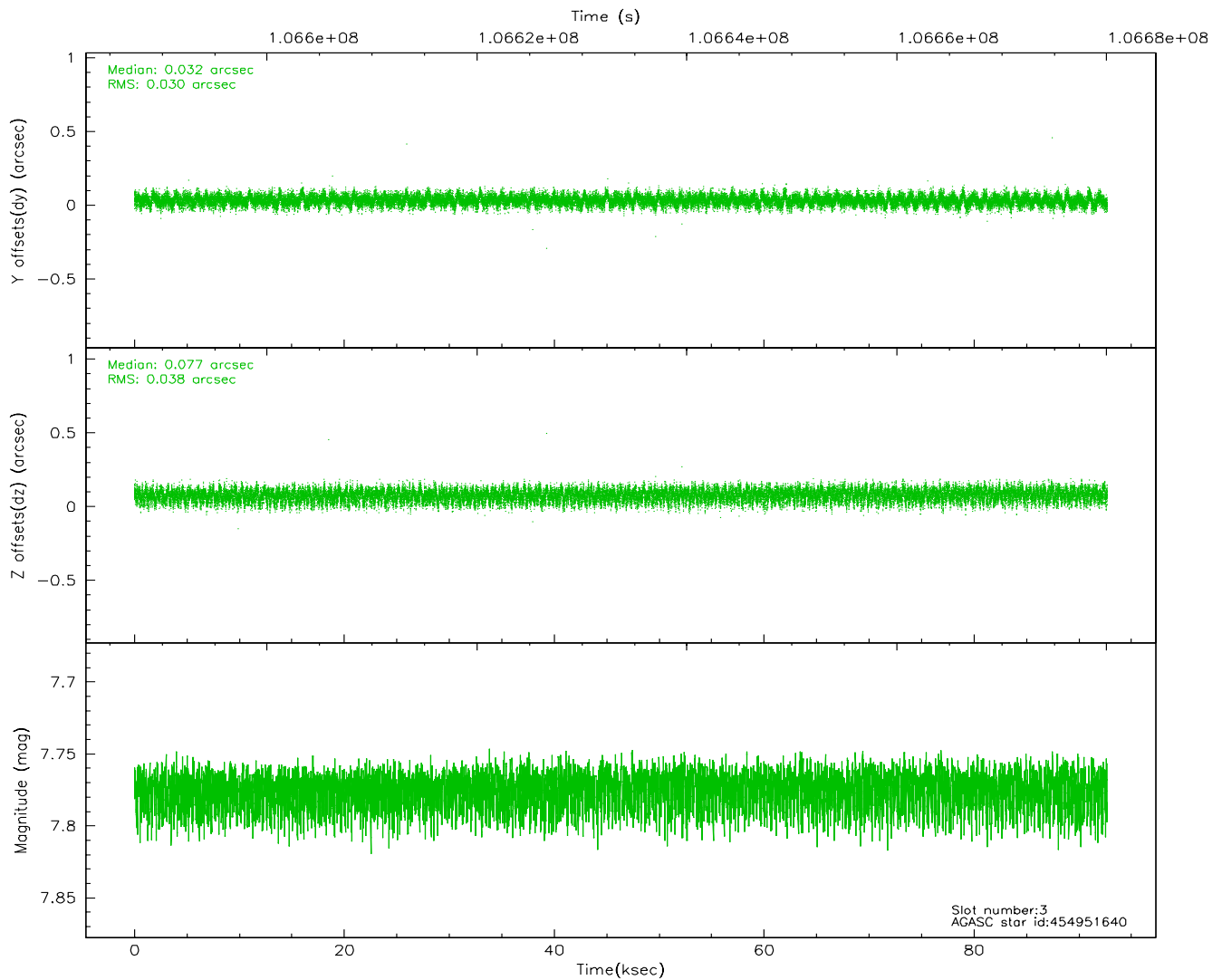
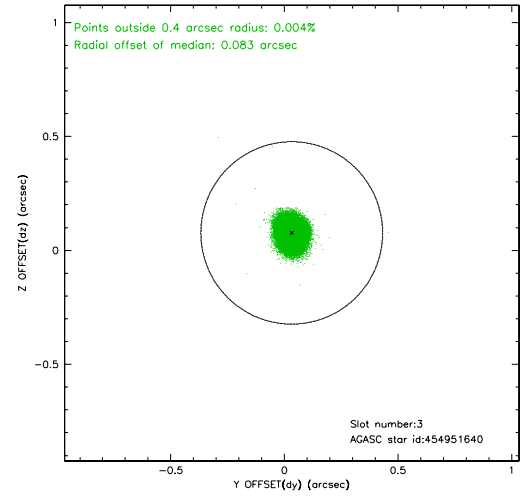
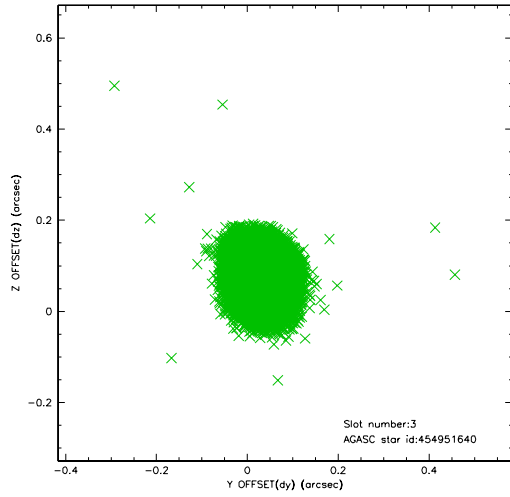


### Slot Statistics

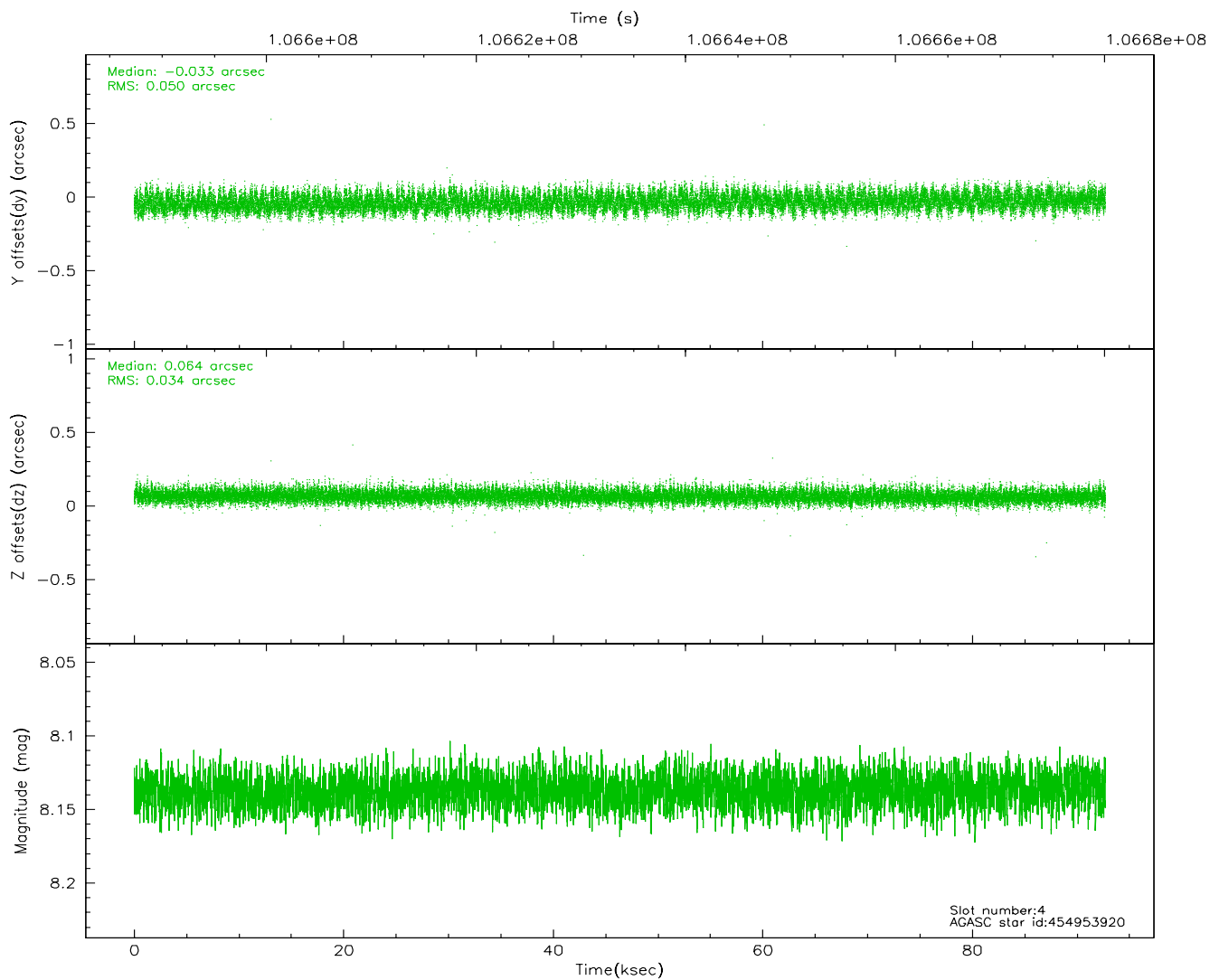
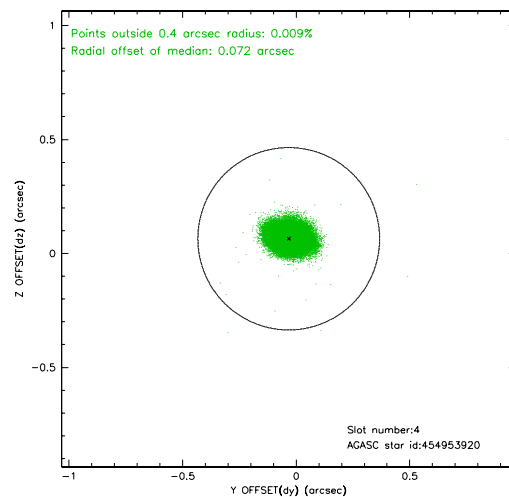
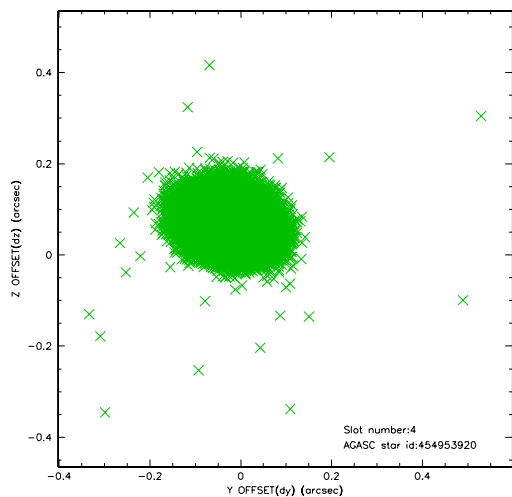
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	22614	-0.028	-0.046	0.009	0.015	0.000000	0.000000	-756.29	-835.93
1	FID	ACIS-I-4	7.18	22610	-0.055	0.037	0.010	0.017	0.000000	0.000000	2157.77	1070.38
2	FID	ACIS-I-5	7.23	22611	-0.018	0.078	0.012	0.021	0.000000	0.000000	-1810.22	1068.16
3	GUIDE	454951640	7.78	45222	0.032	0.077	0.052	0.083	212.500101	52.252965	686.34	-391.05
4	GUIDE	454953920	8.14	45226	-0.033	0.064	0.064	0.104	211.762292	52.212324	2243.70	-883.08
5	GUIDE	504894728	8.81	45211	-0.093	-0.004	0.062	0.099	213.220892	52.722550	-1413.70	-1363.13
6	GUIDE	454958240	9.06	45210	0.089	-0.099	0.073	0.120	212.550018	52.097330	797.55	168.90
7	GUIDE	504899792	9.46	45206	0.005	-0.038	0.083	0.136	212.857278	52.739967	-701.85	-1717.61

## 2.4 Star Slots

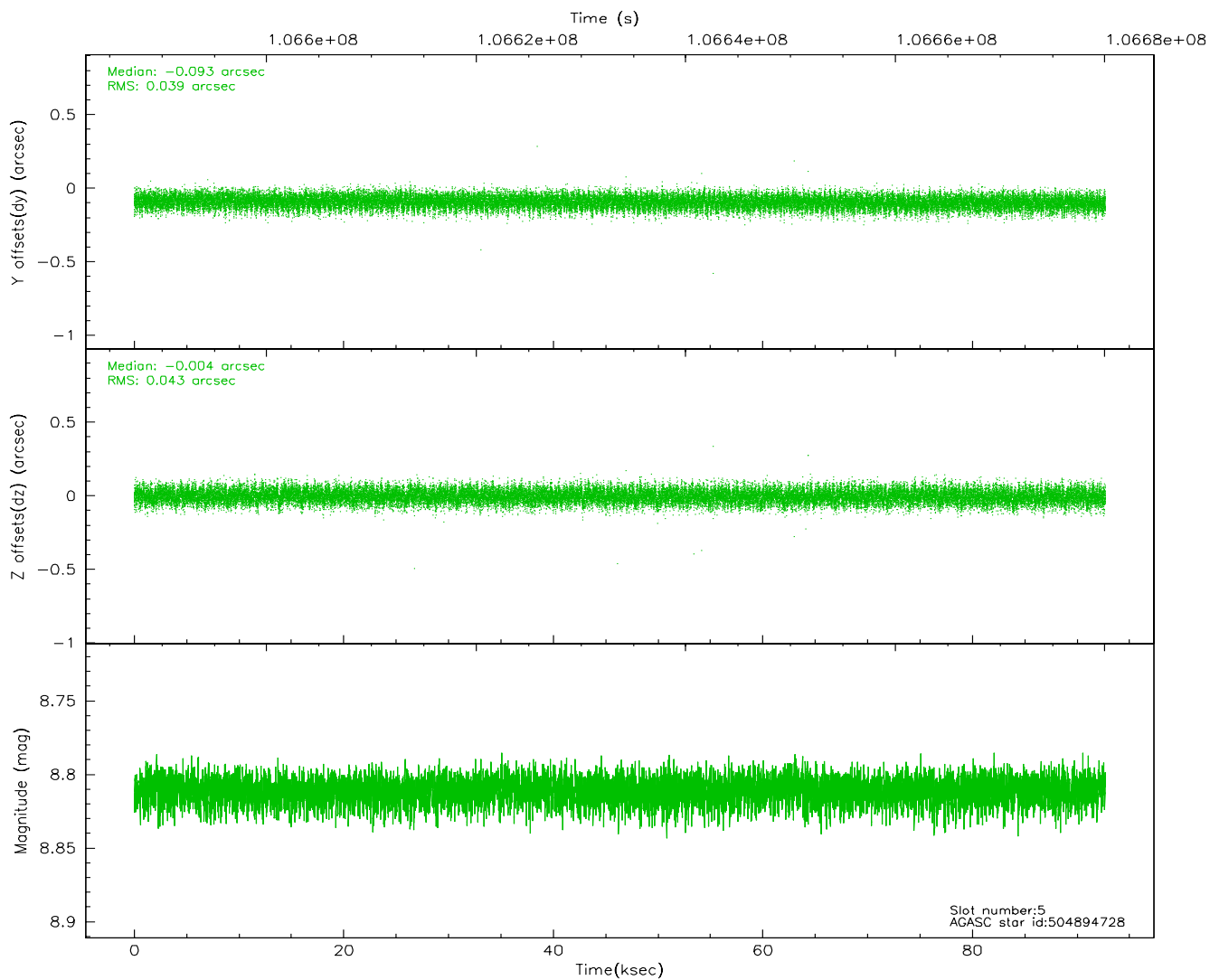
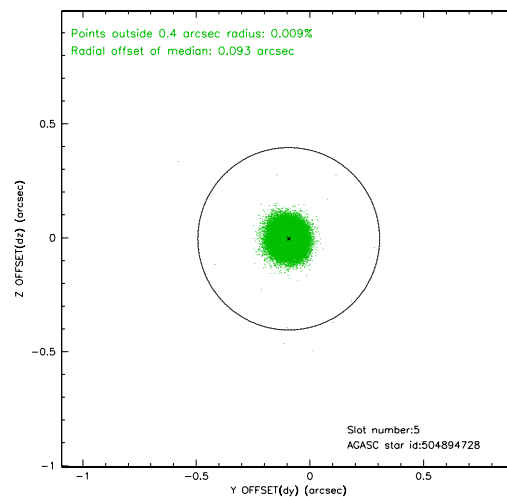
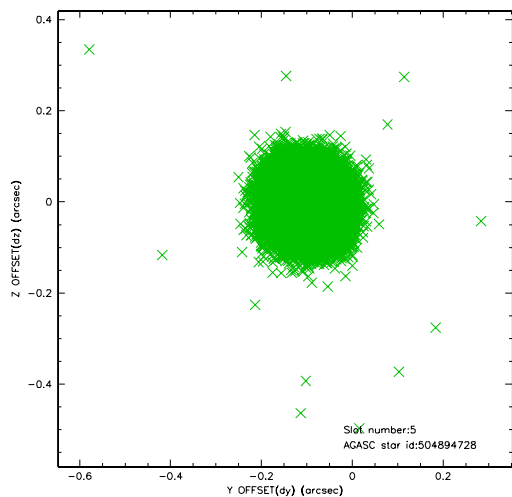
### 2.4.1 Slot 3



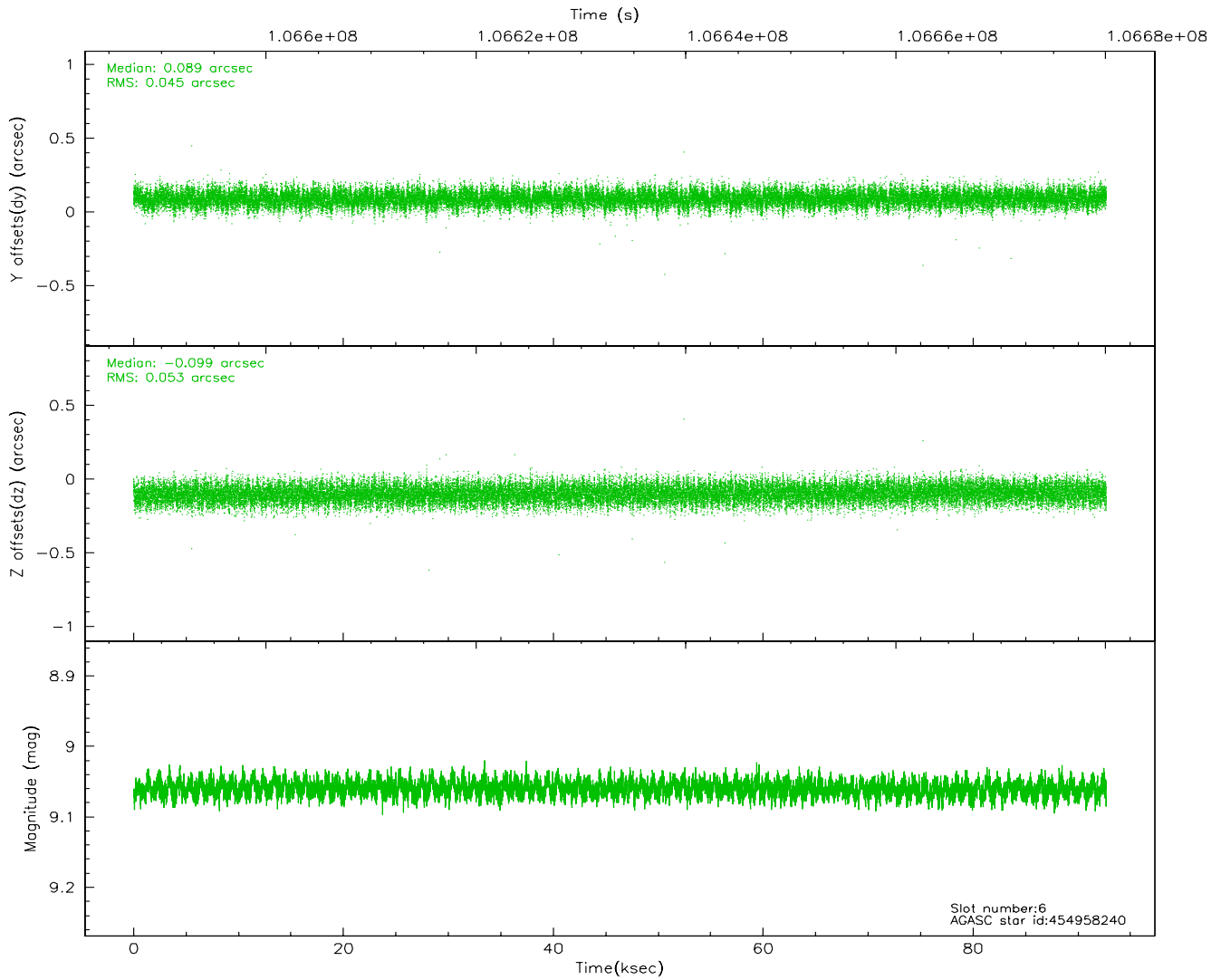
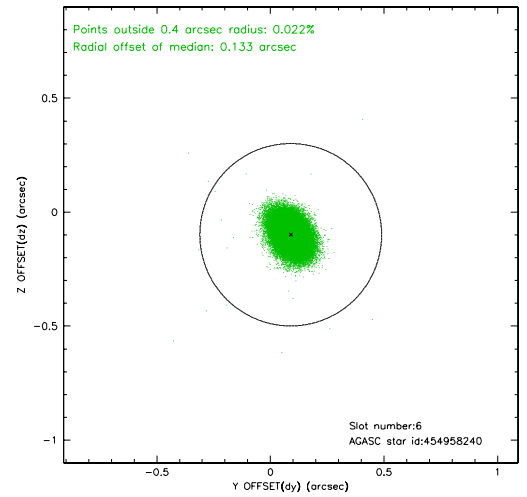
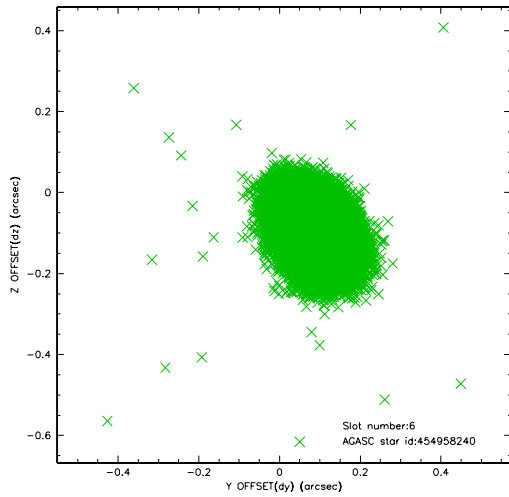
## 2.4.2 Slot 4



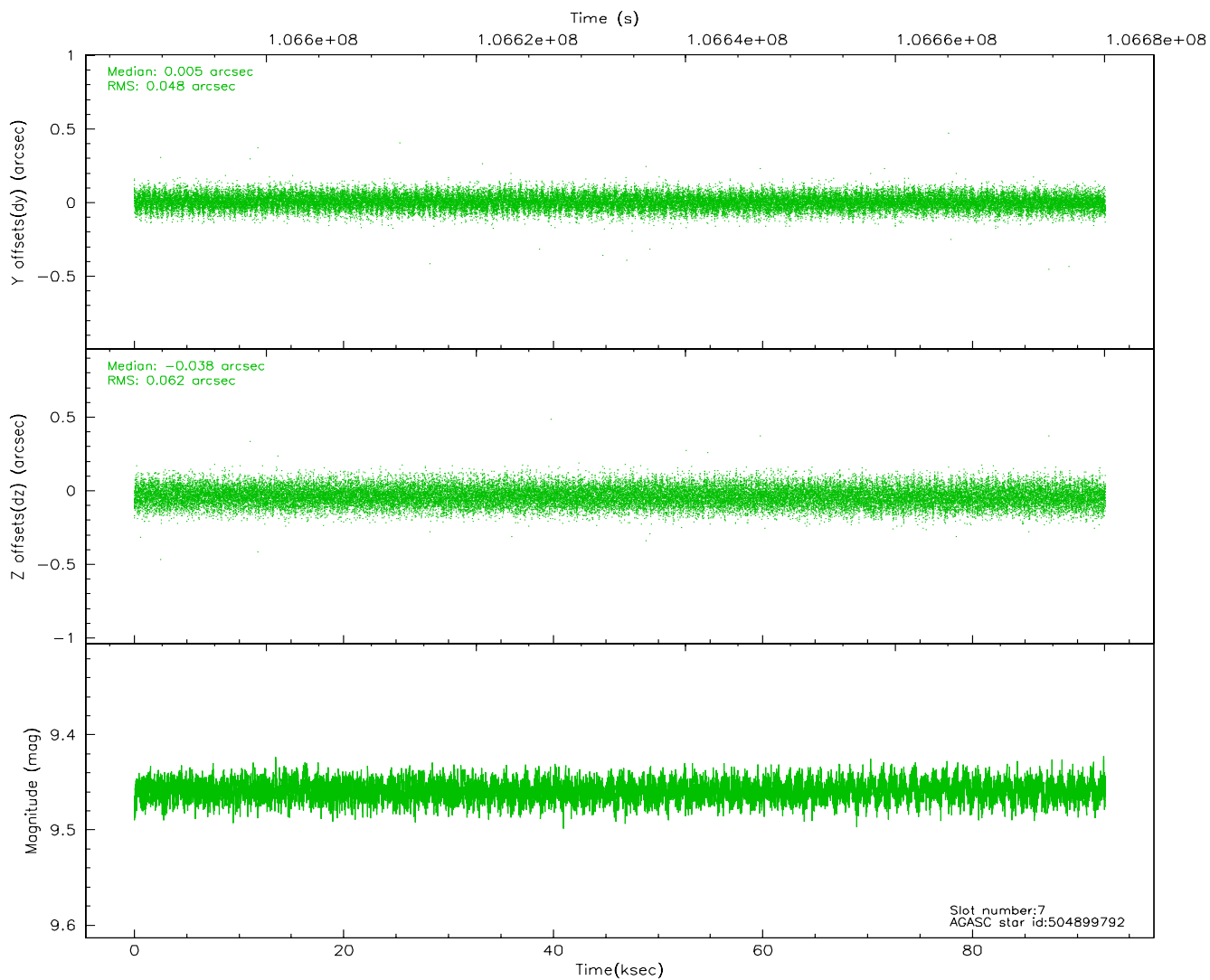
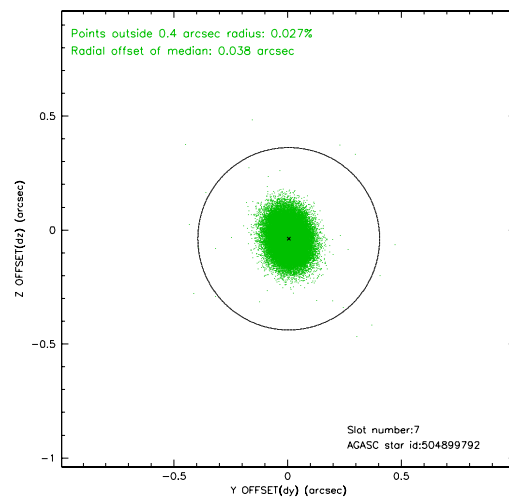
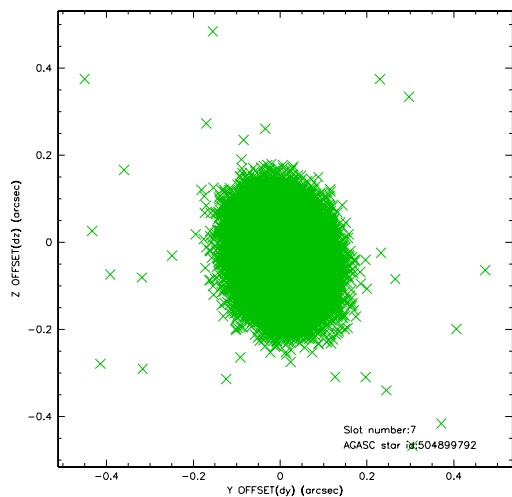
### 2.4.3 Slot 5



### 2.4.4 Slot 6

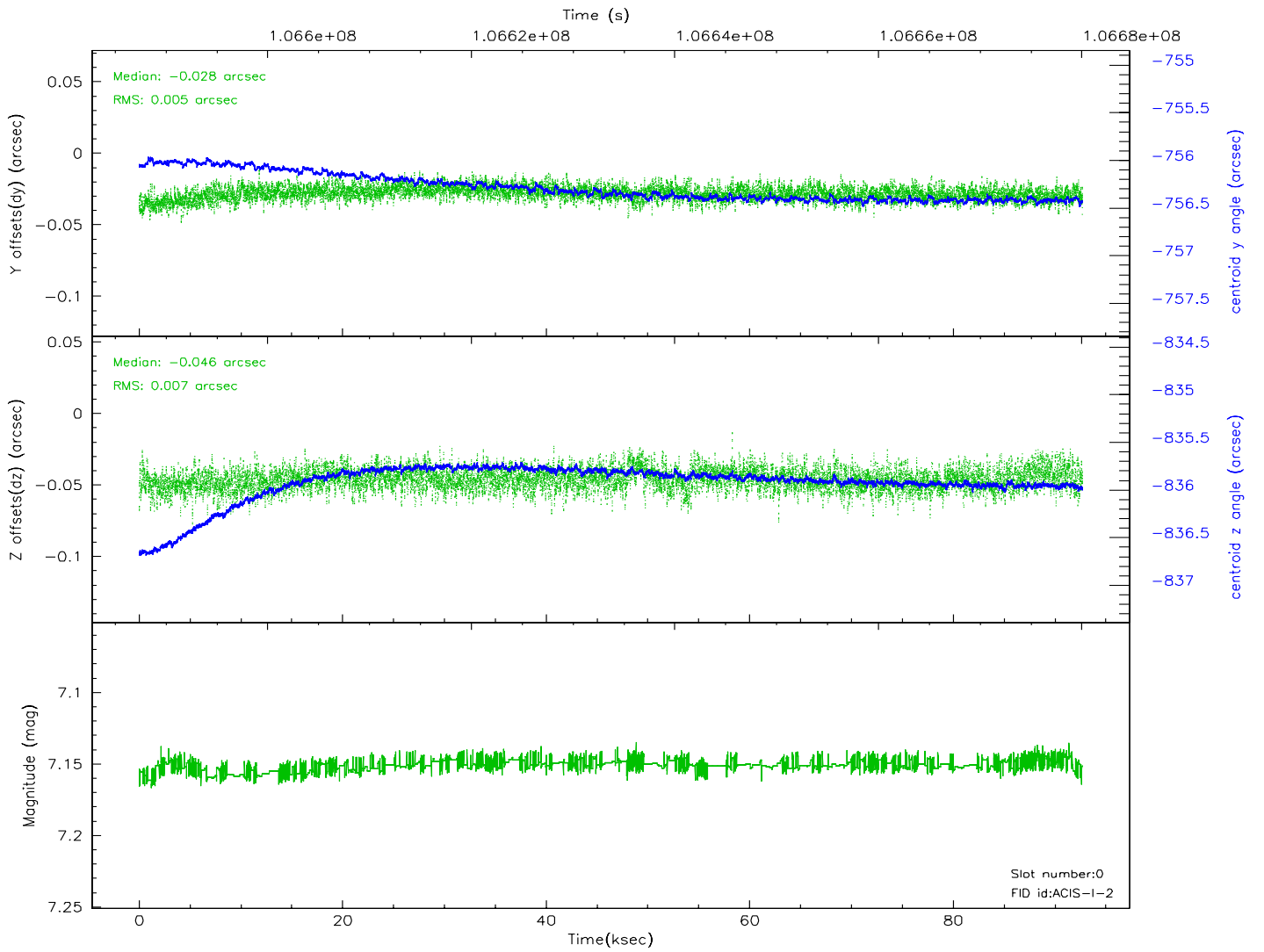
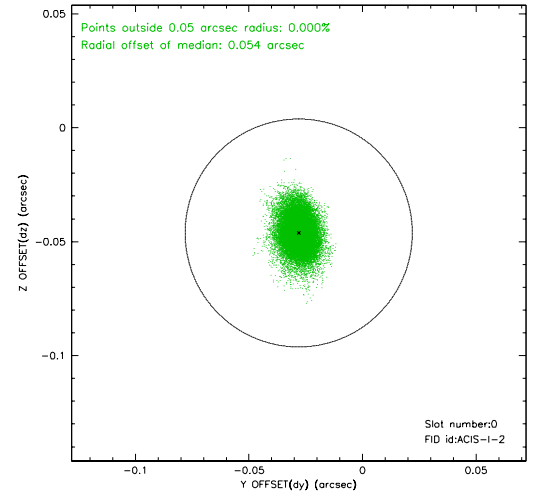
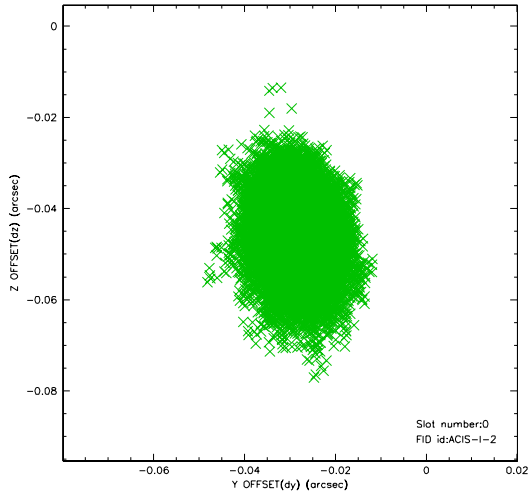


### 2.4.5 Slot 7

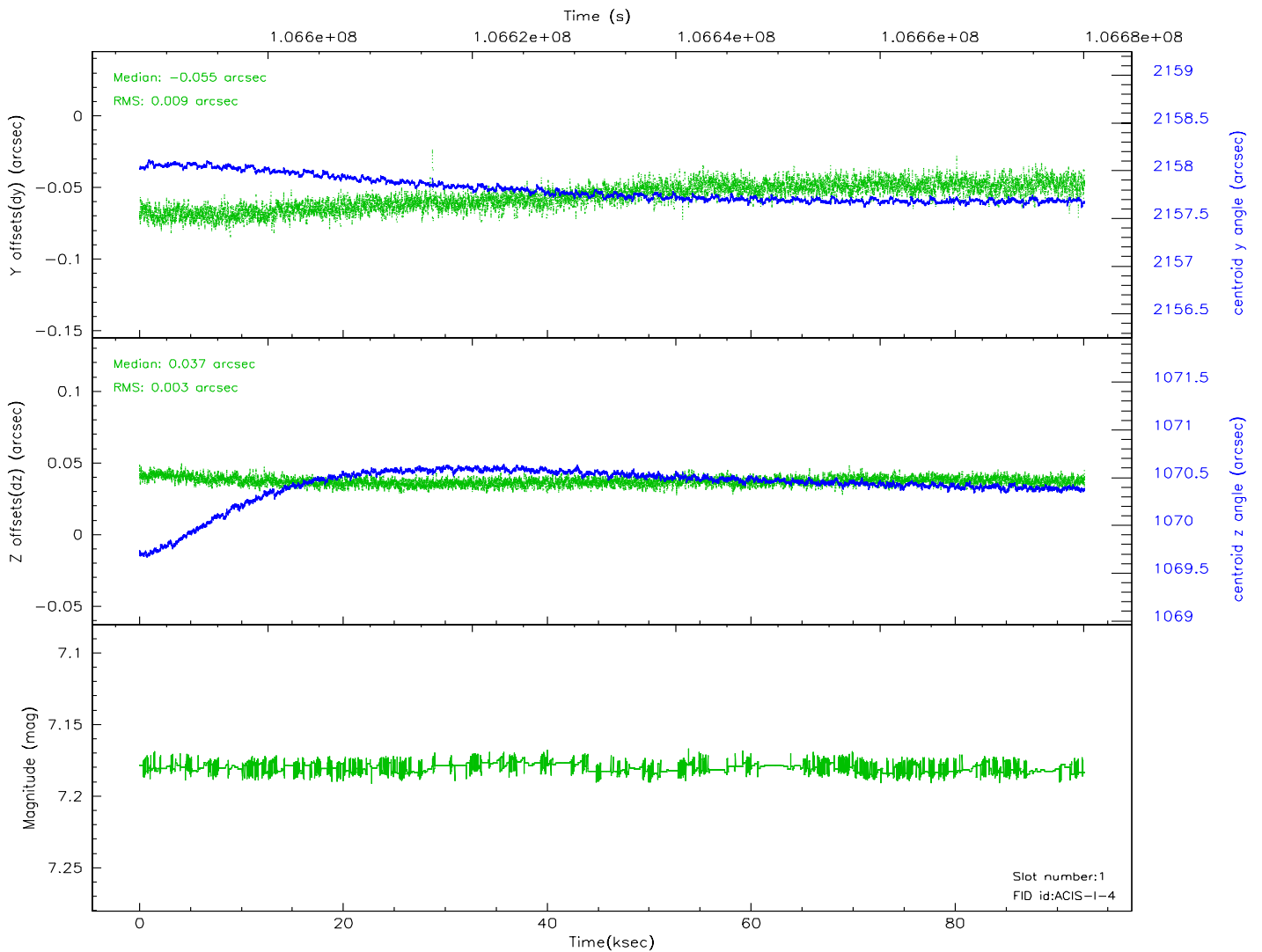
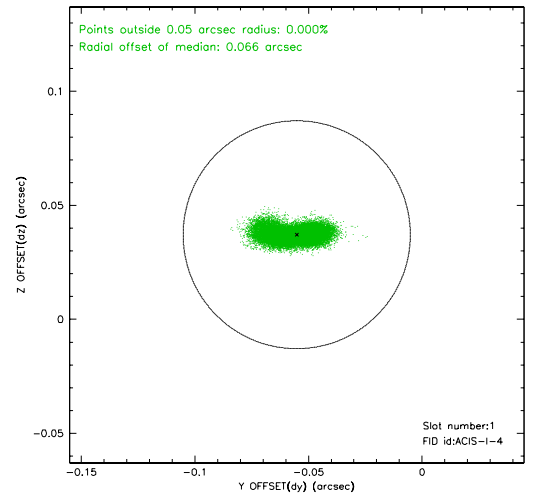
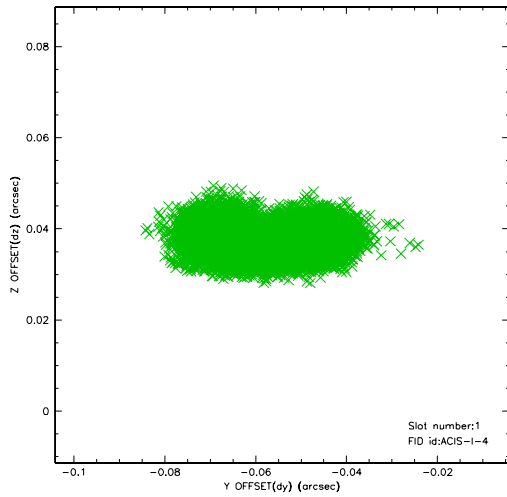


## 2.5 FID Slots

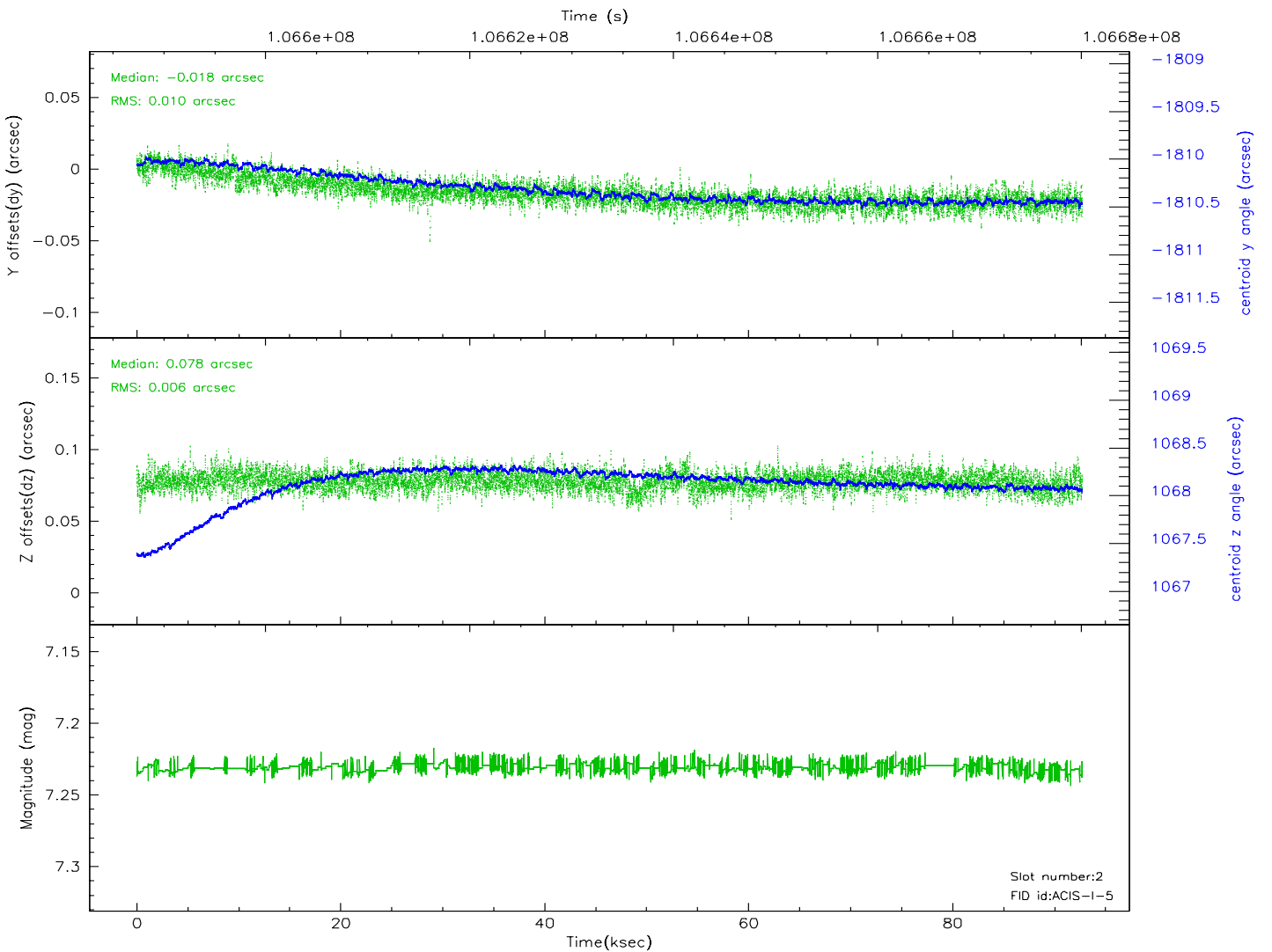
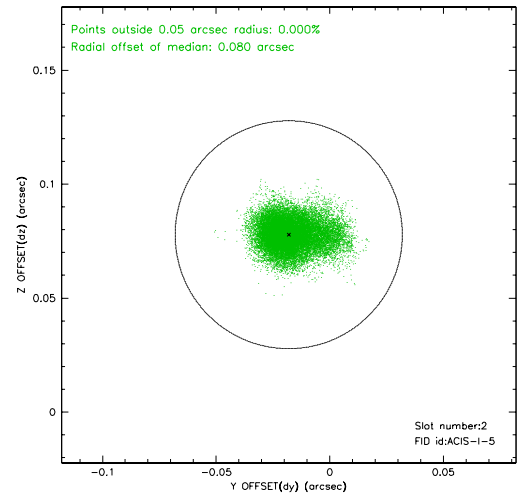
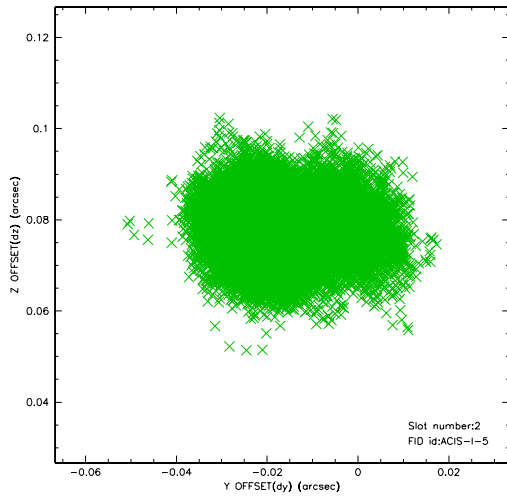
### 2.5.1 Slot 0



## 2.5.2 Slot 1

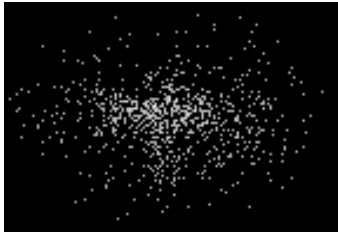


### 2.5.3 Slot 2

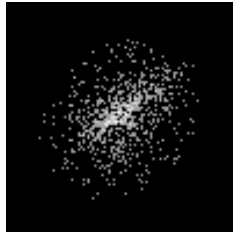


### 3 Point Sources

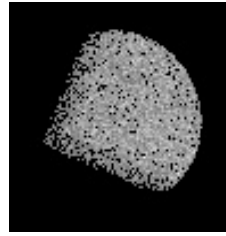
5.82 arcmin



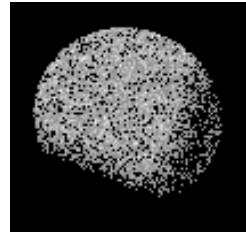
7.99 arcmin



19.50 arcmin



18.58 arcmin



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.11.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	92.102

## A.2 Comments