

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5949 - L2 Version 002  
Chandra X-Ray Center

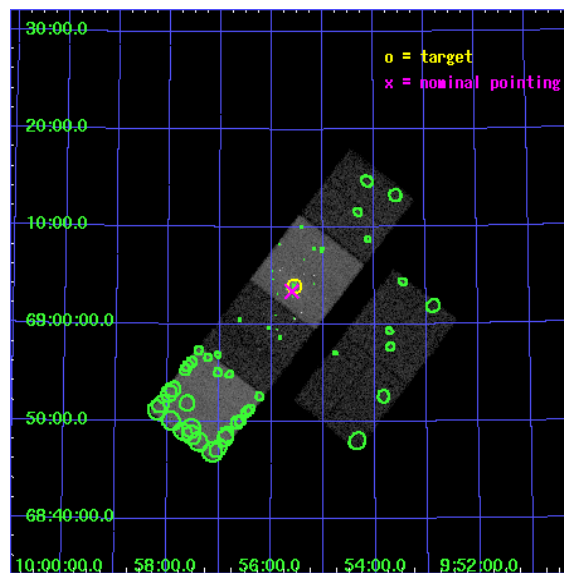
L2 Processing Date : Mar 14 2006

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# 1 Front

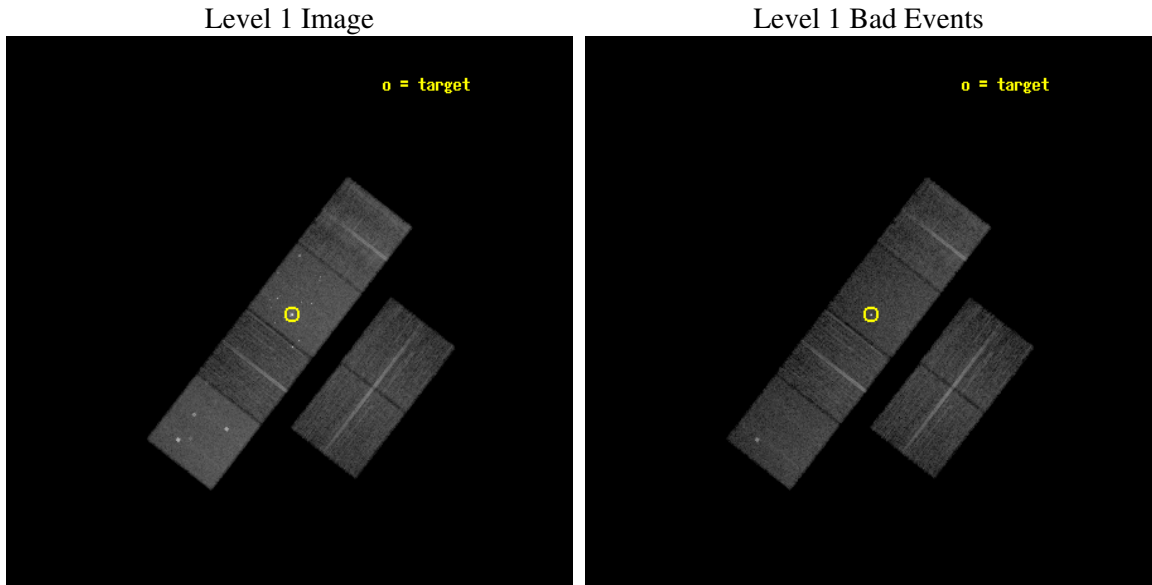
seq_num	600468
obs_id	5949
title	An Unprecedented View of a Galaxy's Dynamic X-ray Source Population
observer	Dr. David Pooley
object	M81
dtcycle	0
cycle	P
ra_targ	148.888333
dec_targ	69.065306
ra_nom	148.90088599365
dec_nom	69.056736432763
roll_nom	307.75269205232
revision	2
ontime	12175.999954641
livetime	12021.820111708
ontime2	12175.999954641
ontime3	12175.999954641
ontime5	12175.999954641
ontime6	12175.999954641
ontime7	12175.999954641
ontime8	12175.999954641
l2events	162837



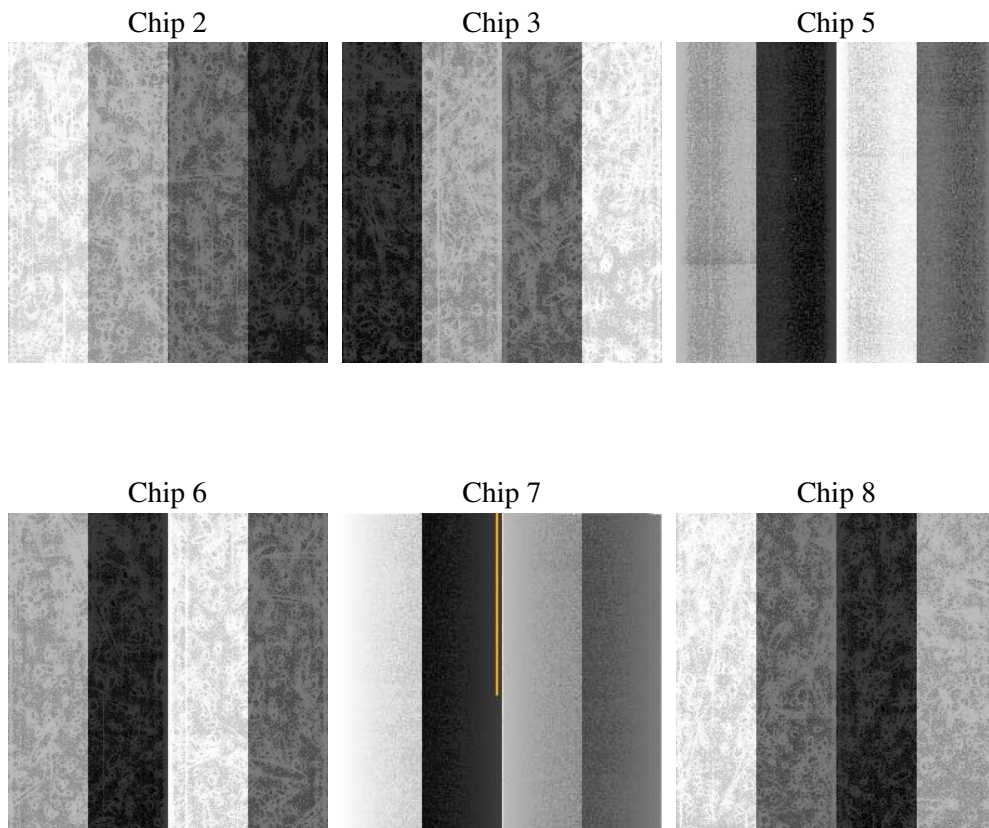
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-03-14T09:34:00
revision	2

sched_exp_time	12000.000000
ontime	12416.275678188
ontime2	12416.275678188
ontime3	12416.275678188
ontime5	12416.275678188
ontime6	12416.275678188
ontime7	12416.275678188
ontime8	12416.275678188
l1events	728028

### 2.1.4 Events

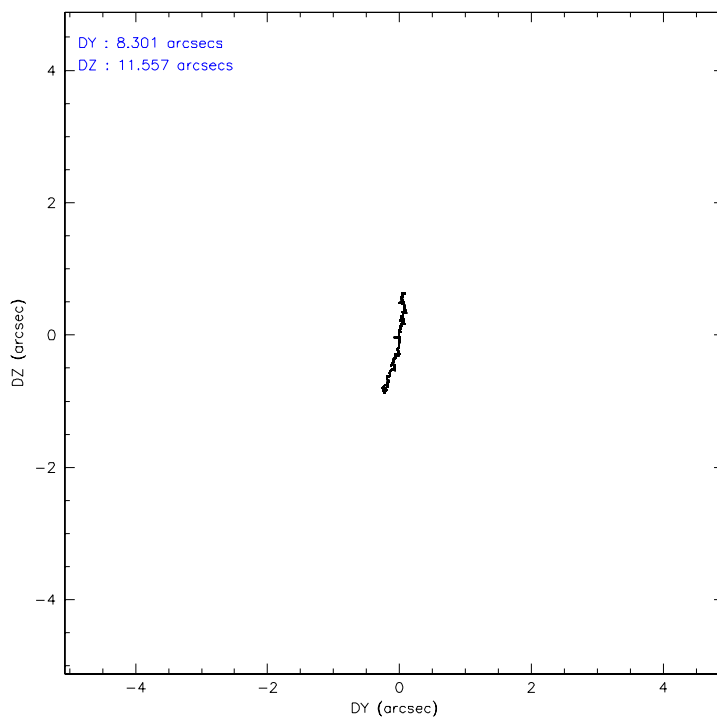
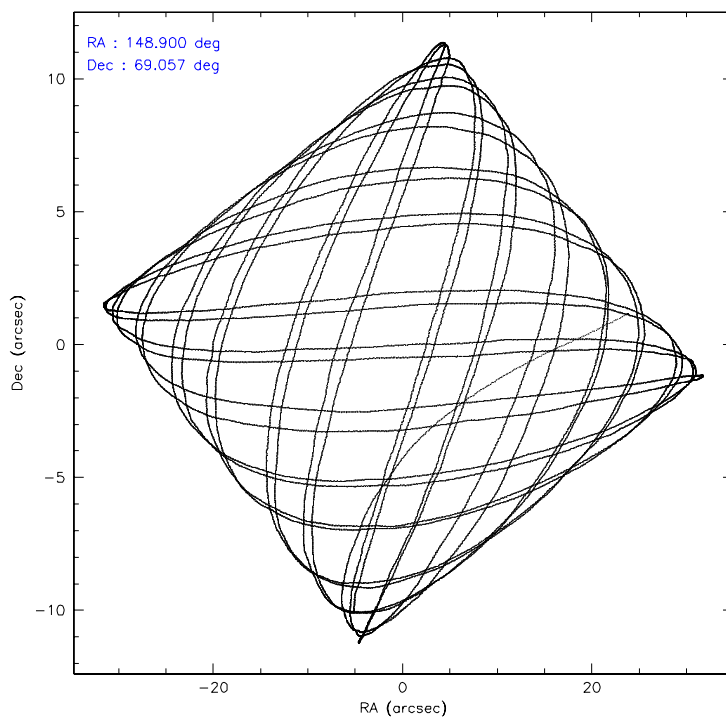
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	100509	96288	154358	103257	147278	126338
rejected events	88922	85067	85700	89702	87889	99757
rejected %	88%	88%	55%	86%	59%	78%

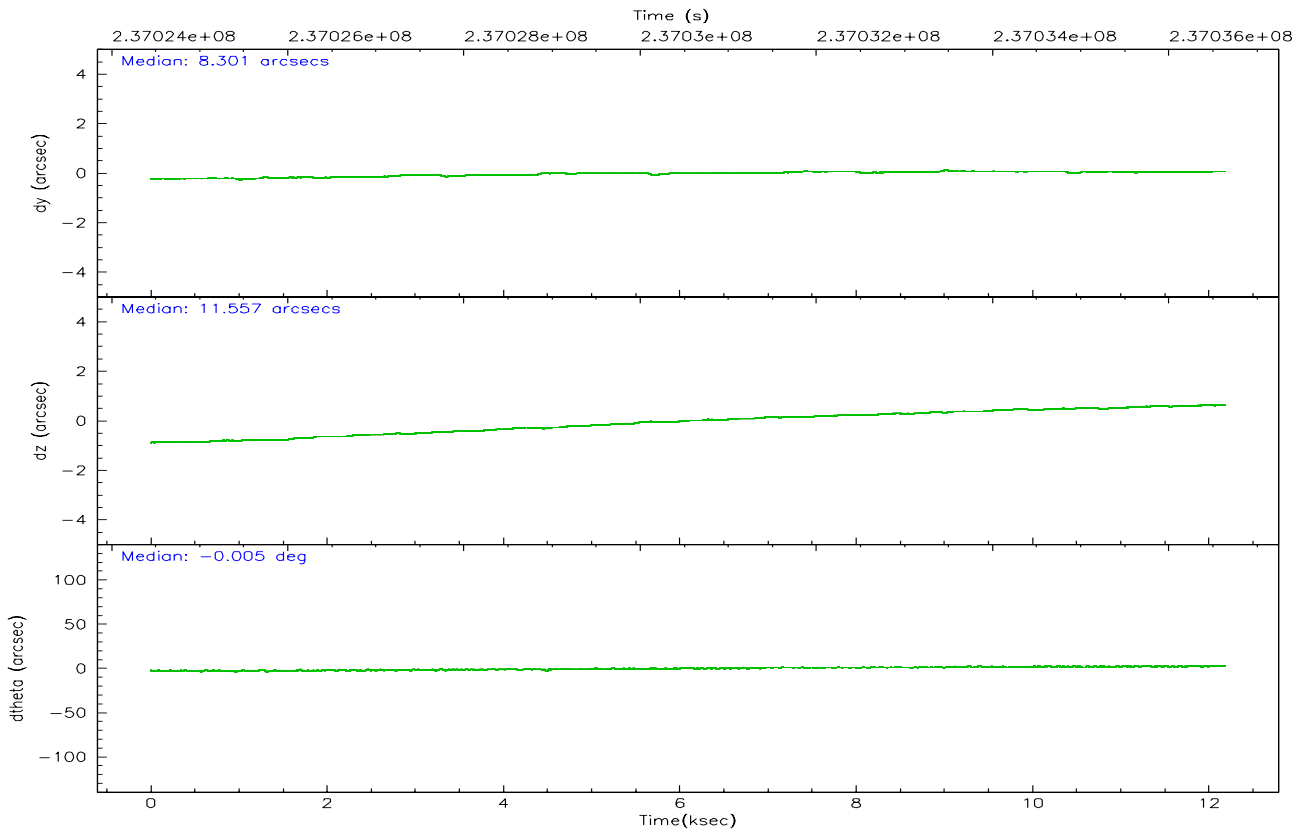
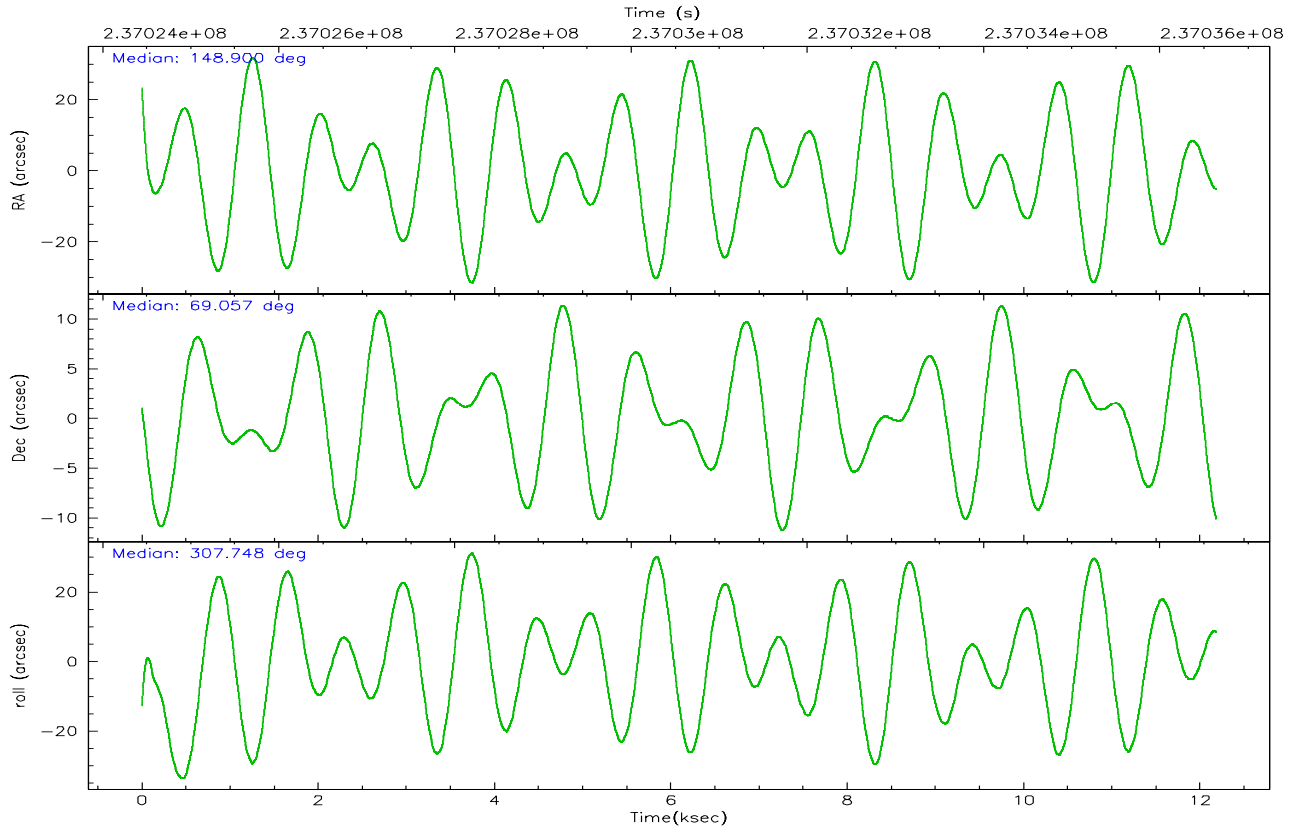
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5339	4971	8333	6164	5061	8245
	5%	5%	5%	5%	3%	6%
grade 1 events	67	64	1088	76	183	89
	0%	0%	0%	0%	0%	0%
grade 2 events	2374	2253	20801	2785	15306	6162
	2%	2%	13%	2%	10%	4%
grade 3 events	1081	1109	1343	1220	3529	2904
	1%	1%	0%	1%	2%	2%
grade 4 events	1082	1077	1365	1193	3367	2641
	1%	1%	0%	1%	2%	2%
grade 5 events	3785	4537	6955	4619	9397	6183
	3%	4%	4%	4%	6%	4%
grade 6 events	1930	2011	38203	2450	33348	7158
	1%	2%	24%	2%	22%	5%
grade 7 events	84851	80266	76270	84750	77087	92956
	84%	83%	49%	82%	52%	73%

## 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	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	148.829968	148.9008859936461	Alternating exposures requested	N	N
Pointing Dec	69.066696	69.0567364327629	Primary exposure time	0.000000	3.2
Pointing Roll	307.662297	307.7526920523155			
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	237024633.184000	237023443.14301			
Observation start date	2005-07-06T08:09:29	2005-07-06T07:50:43			
Observation end time	237036633.184000	237036966.99363			
Observation end date	2005-07-06T11:29:29	2005-07-06T11:36:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect



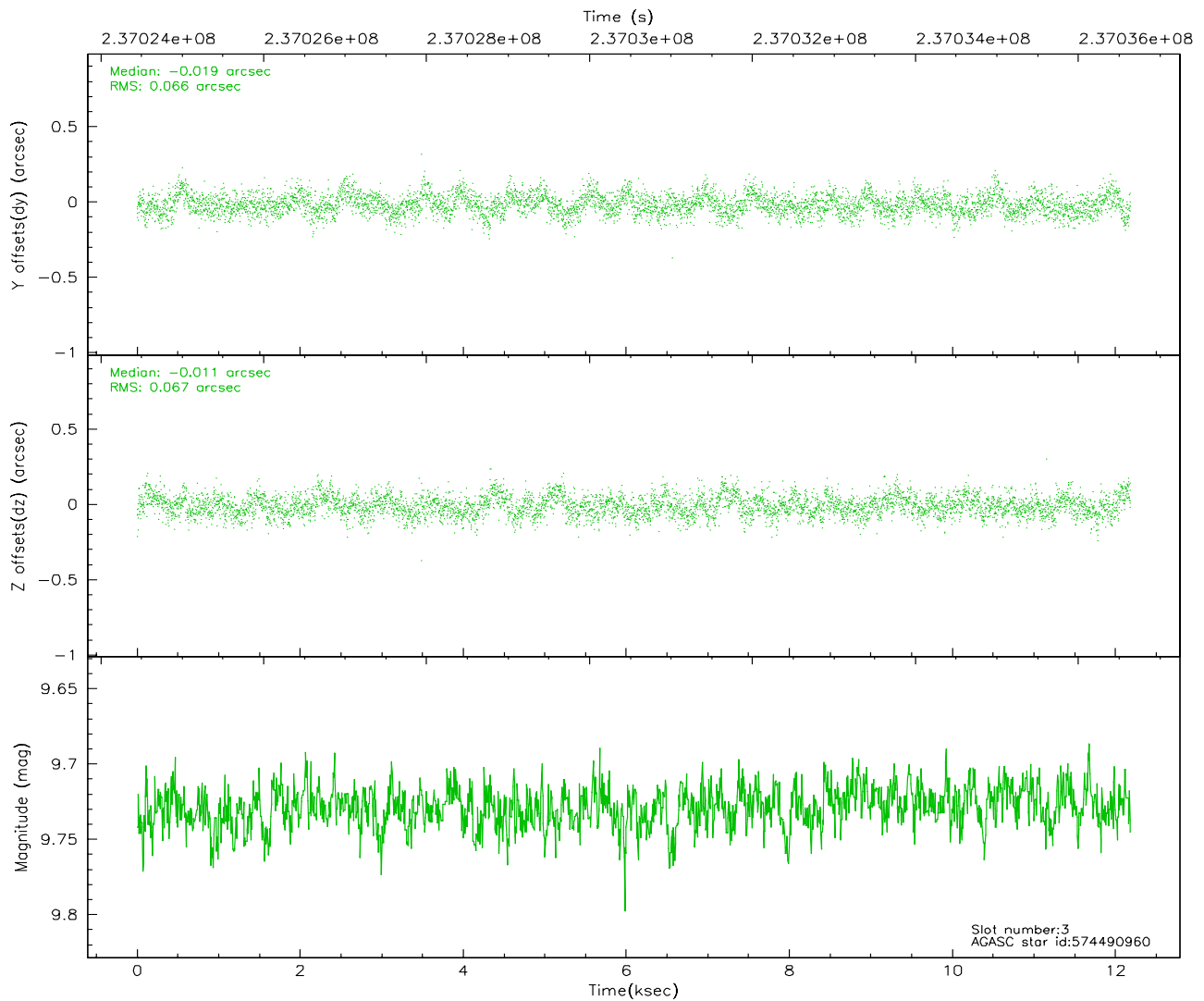
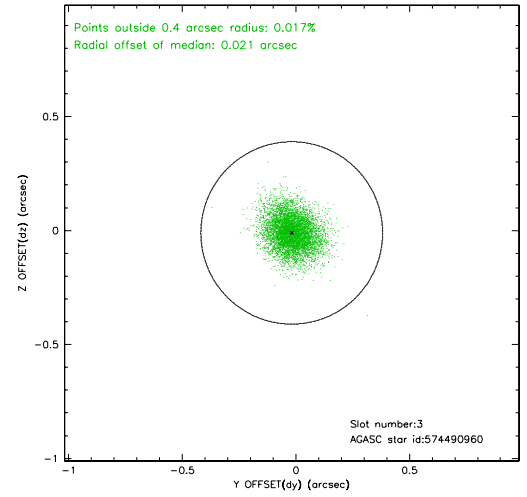
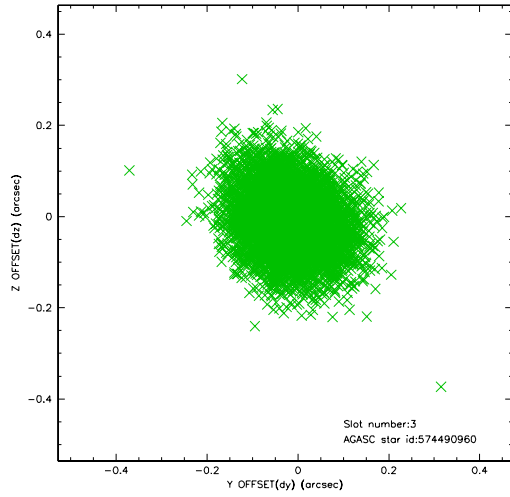


### Slot Statistics

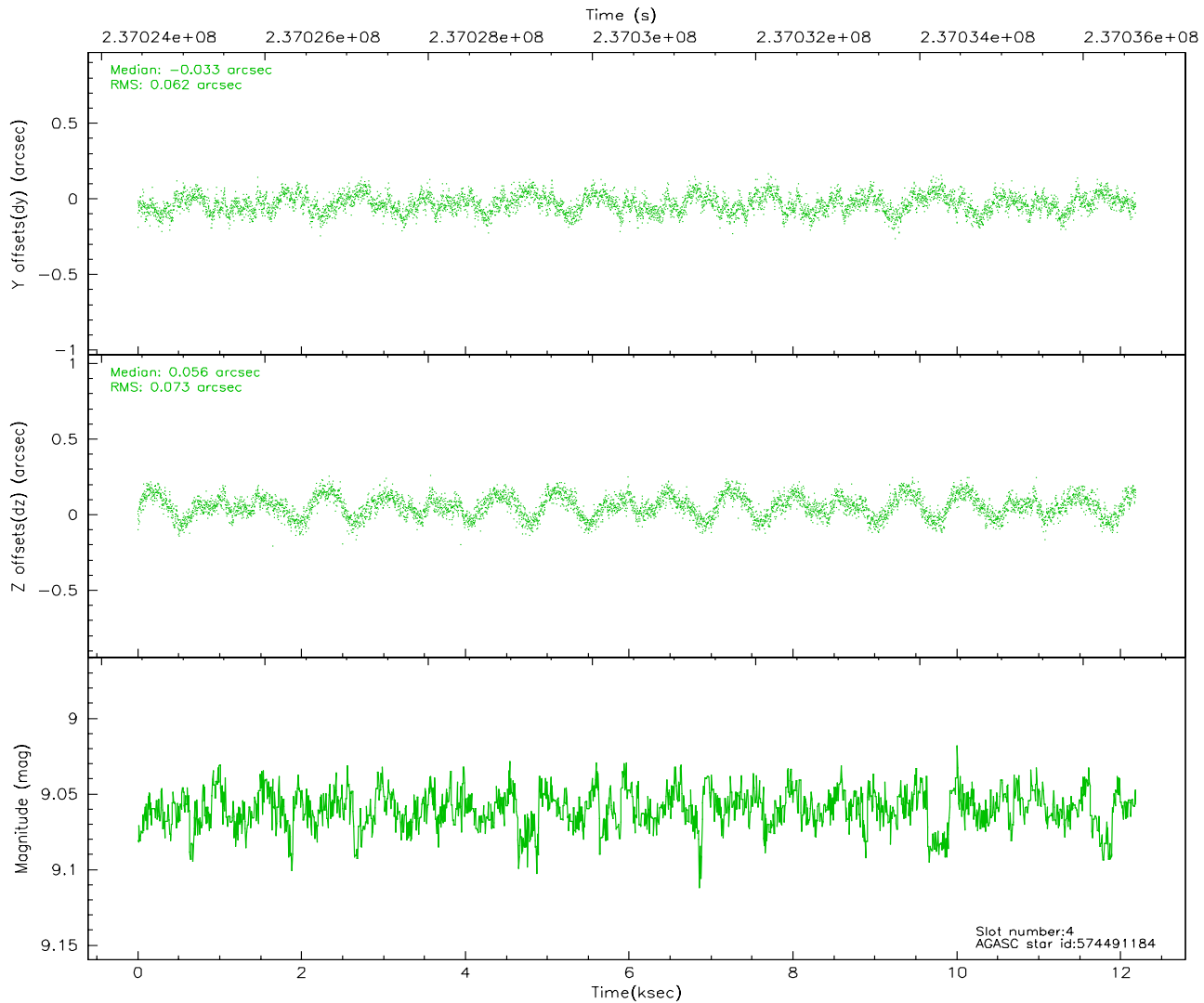
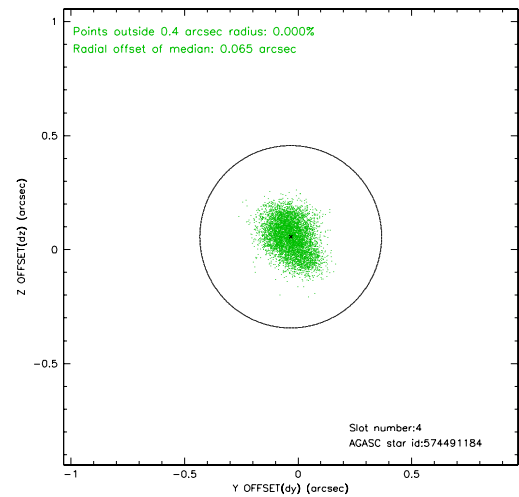
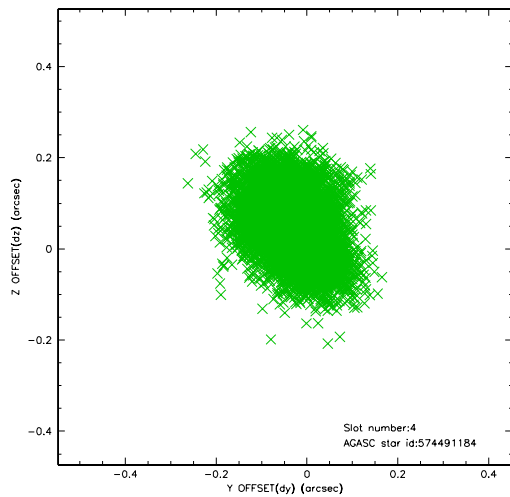
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2972	-0.013	0.003	0.016	0.024	0.000000	0.000000	-761.05	-1732.78
1	FID	ACIS-S-4	7.20	2972	0.067	0.006	0.009	0.014	0.000000	0.000000	2152.10	175.31
2	FID	ACIS-S-5	7.23	2971	-0.085	0.000	0.015	0.022	0.000000	0.000000	-1813.46	169.40
3	GUIDE	574490960	9.73	5940	-0.019	-0.011	0.100	0.162	148.185918	69.658768	-2182.83	667.04
4	GUIDE	574491184	9.06	5940	-0.033	0.056	0.104	0.161	148.582453	69.768699	-2189.60	1301.12
5	GUIDE	574491280	9.32	5939	-0.061	-0.030	0.130	0.212	148.611567	69.450135	-1261.91	624.95
6	GUIDE	574489568	9.78	5934	0.002	0.066	0.124	0.197	147.223974	69.438157	-2320.08	-773.52
7	GUIDE	574490584	9.54	5931	0.102	-0.065	0.126	0.198	148.421828	68.168920	2223.78	-2405.37

## 2.4 Star Slots

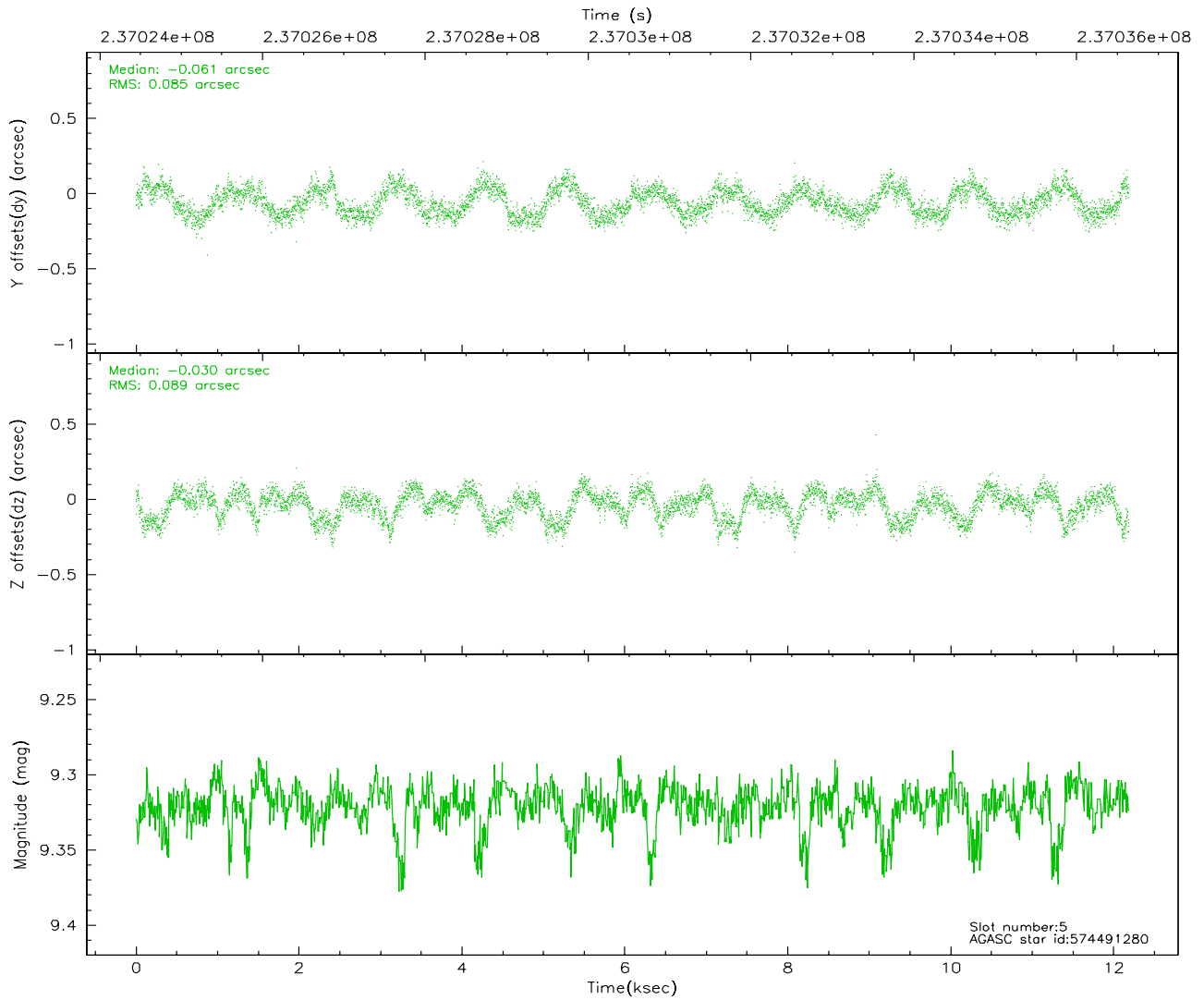
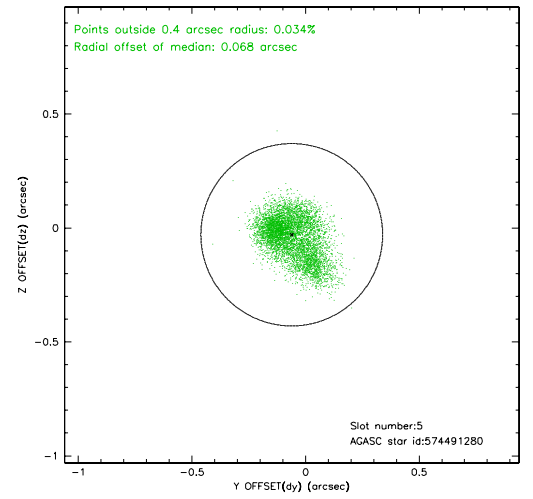
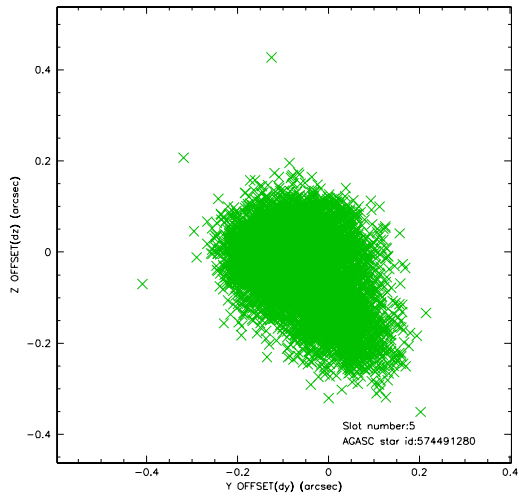
### 2.4.1 Slot 3



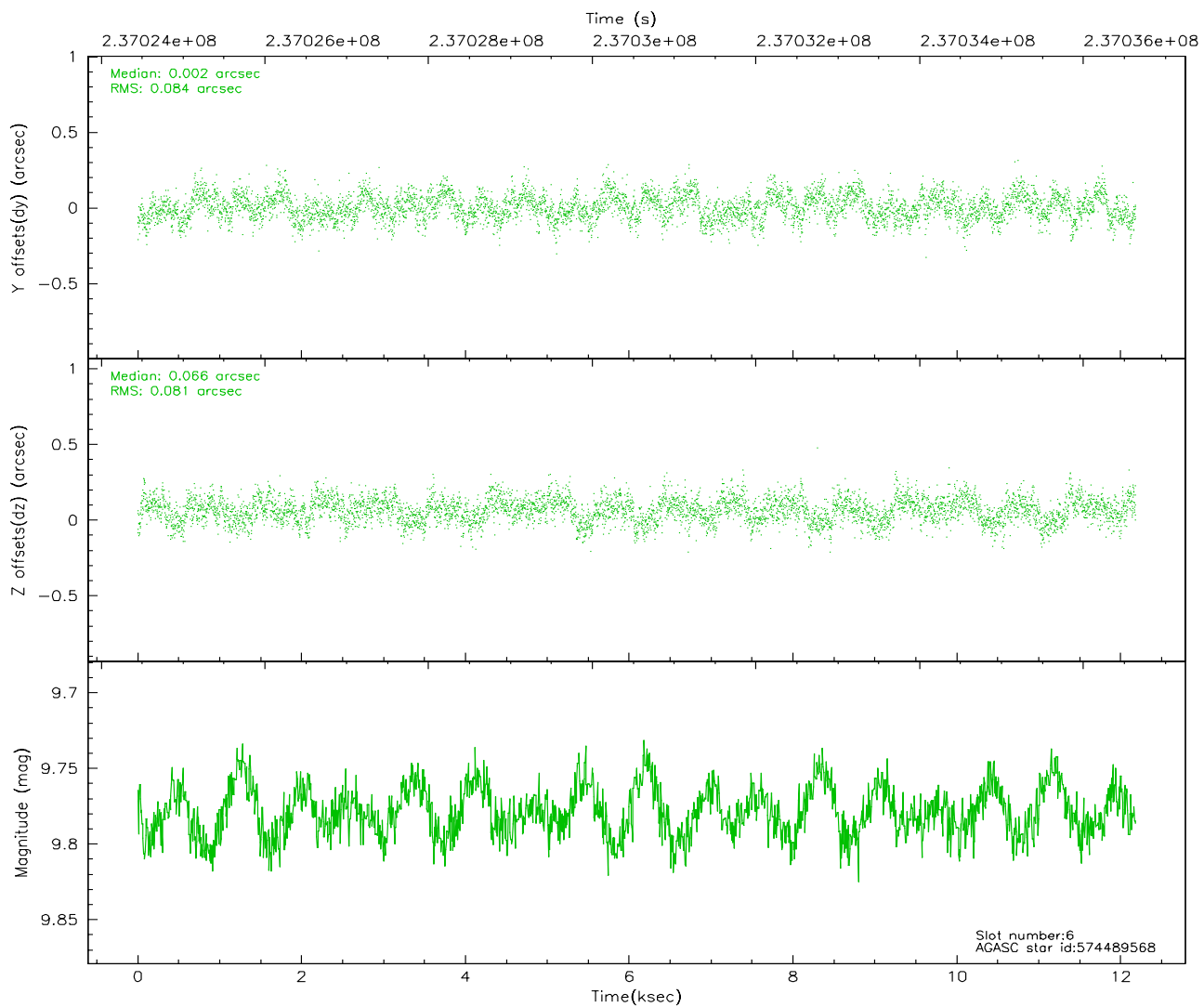
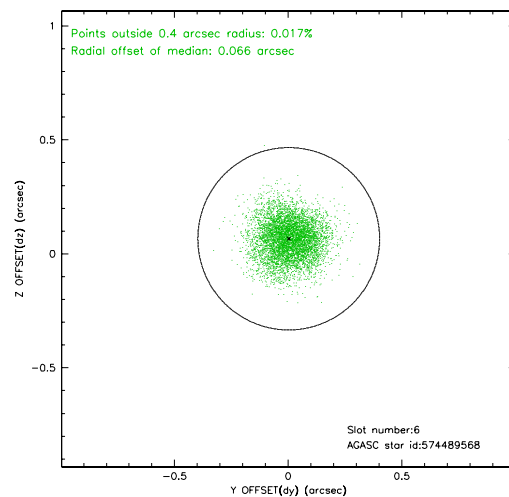
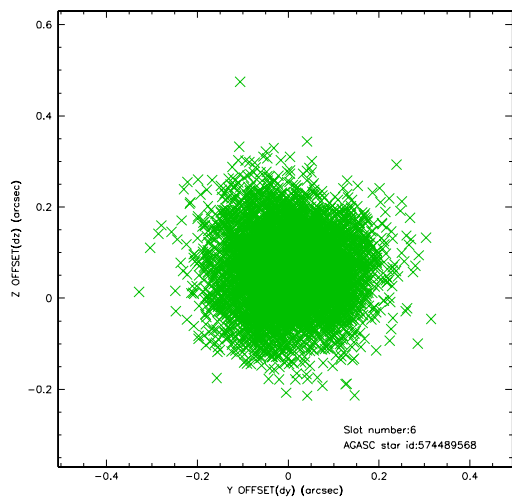
## 2.4.2 Slot 4



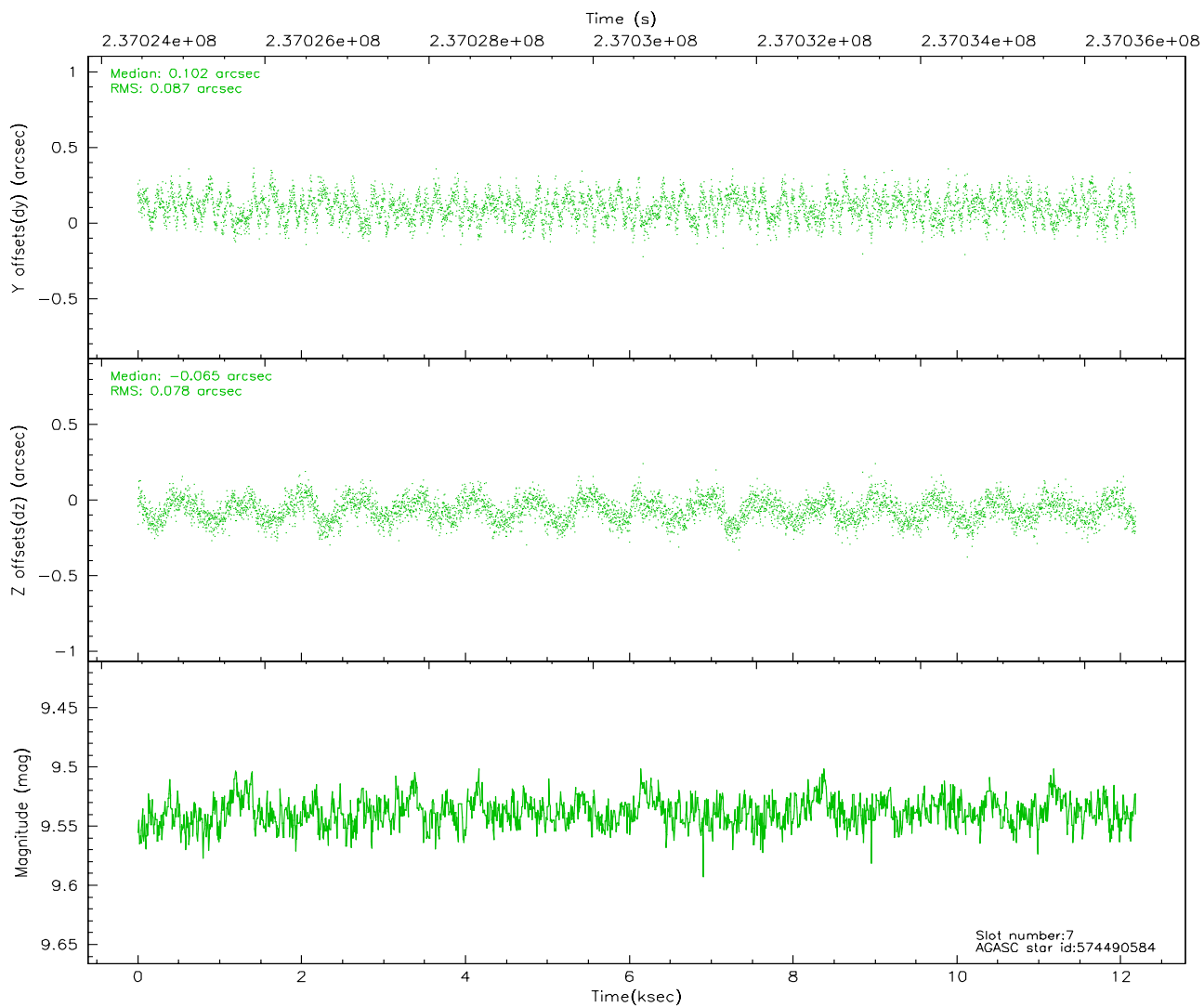
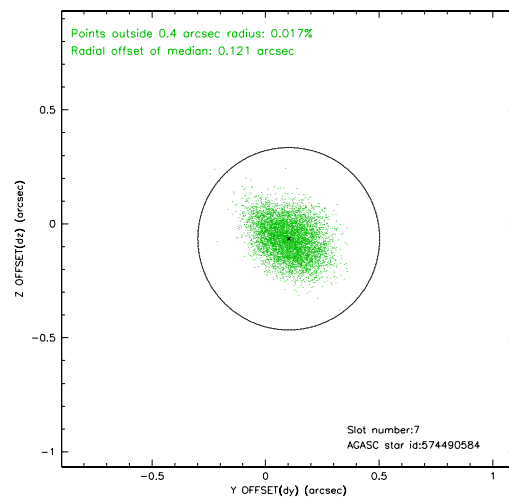
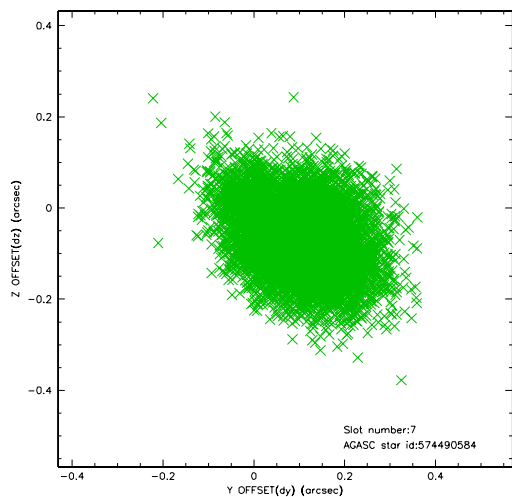
### 2.4.3 Slot 5



## 2.4.4 Slot 6

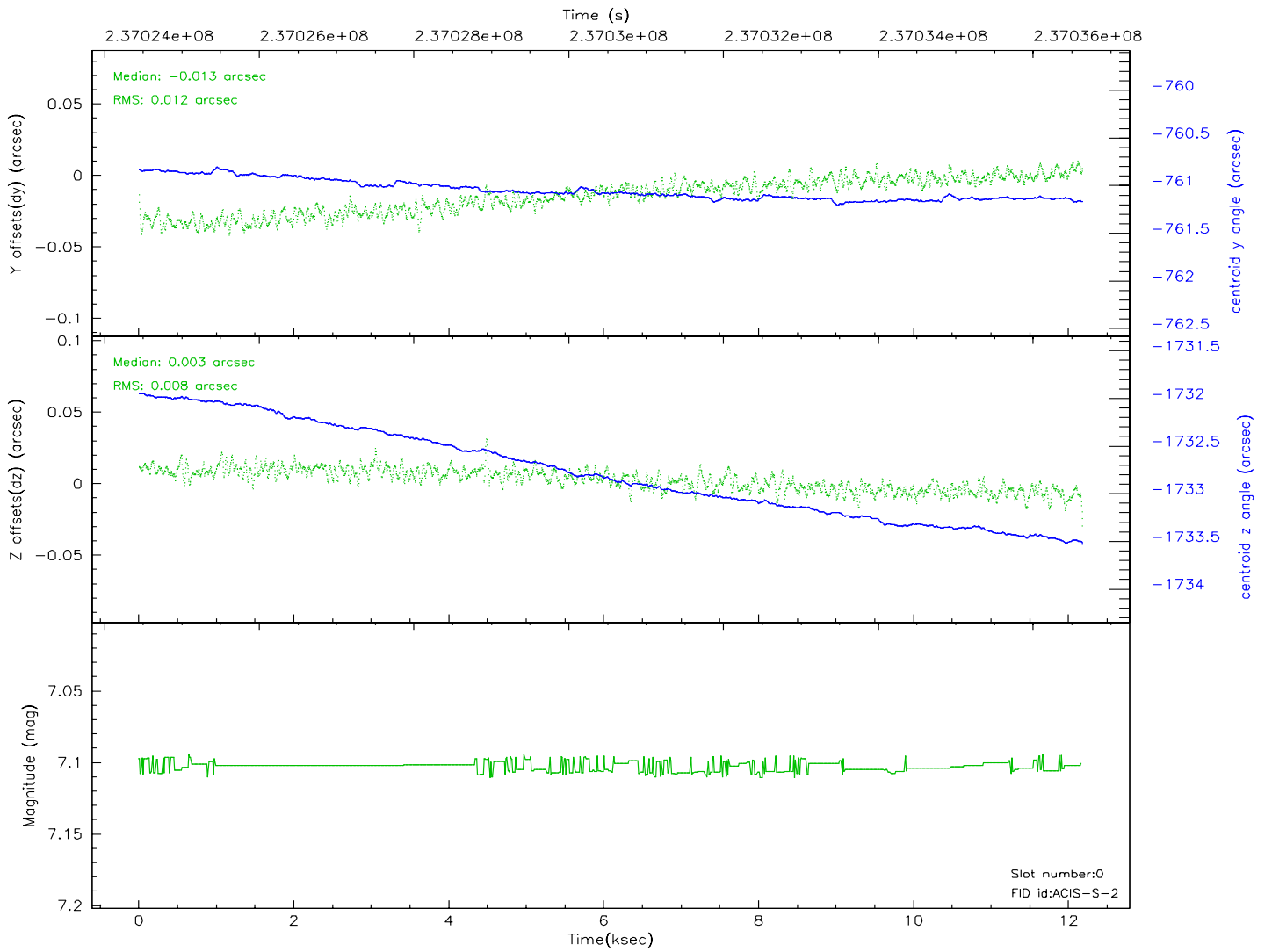
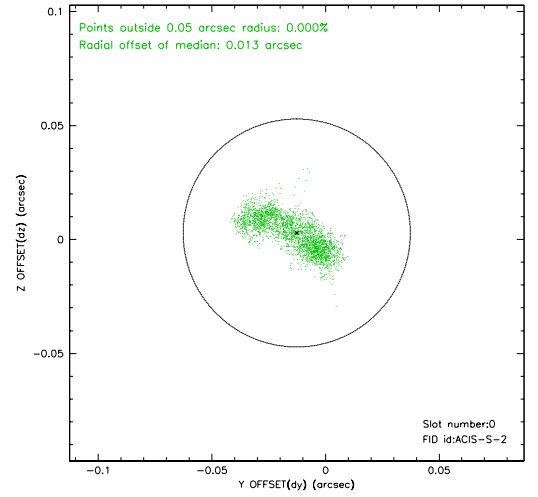
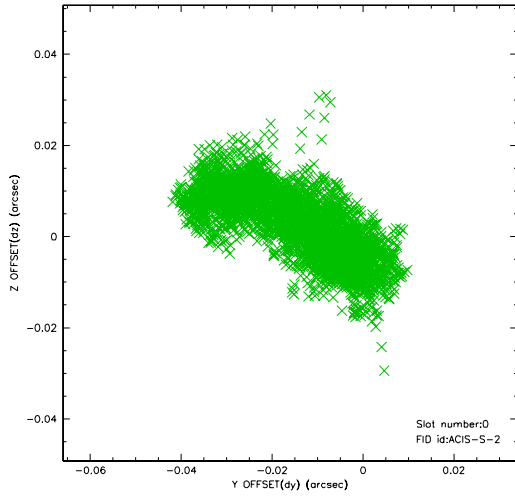


## 2.4.5 Slot 7

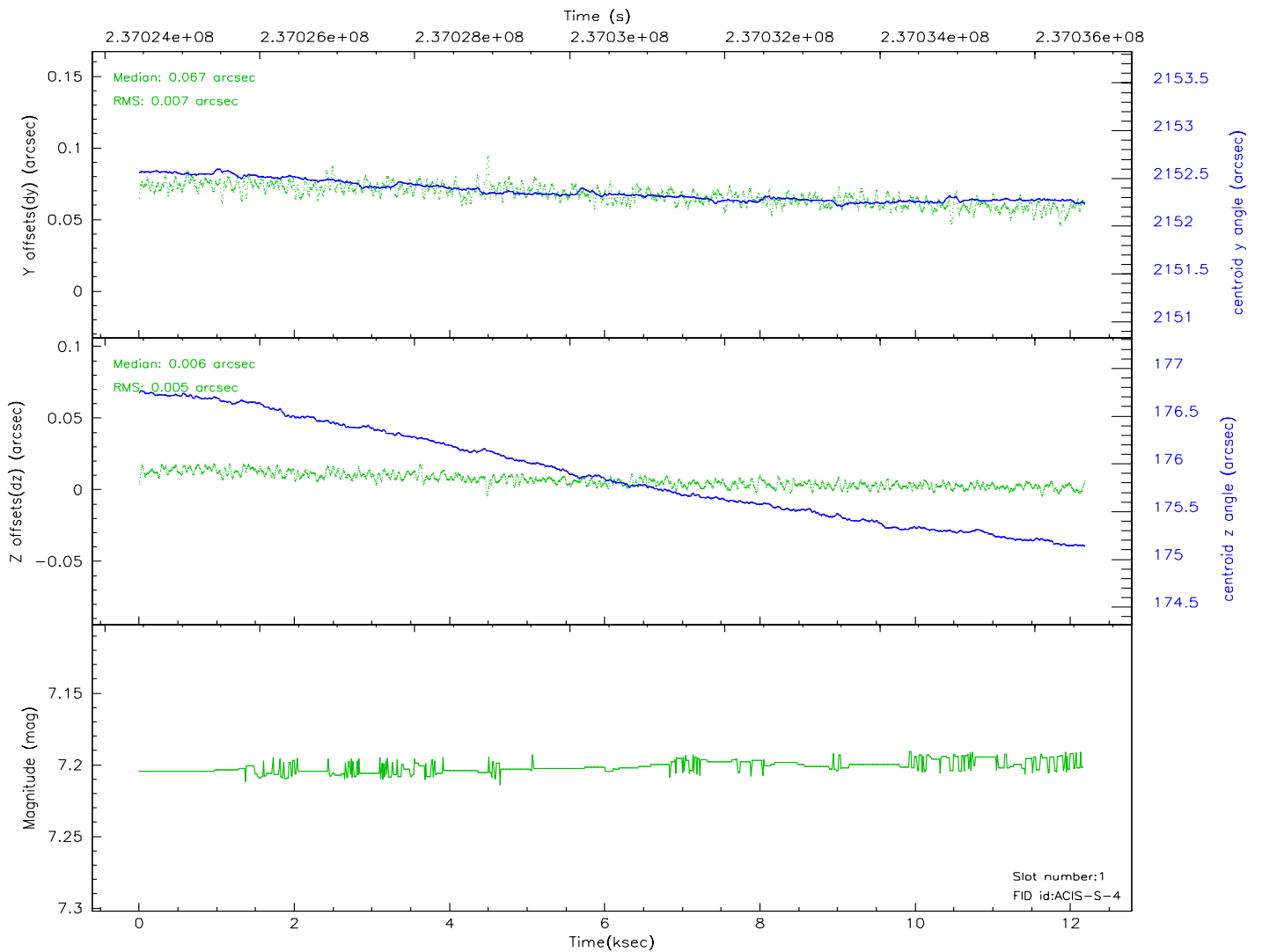
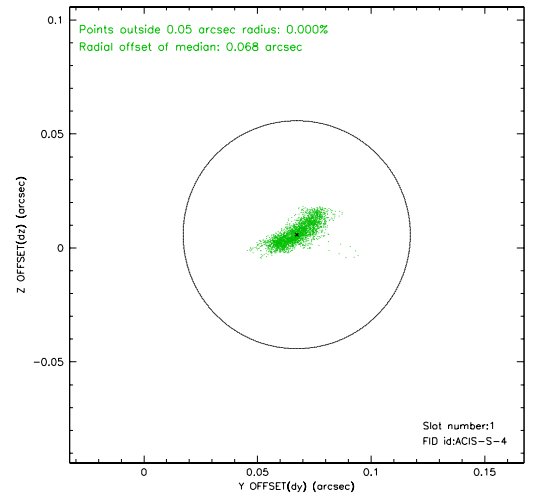
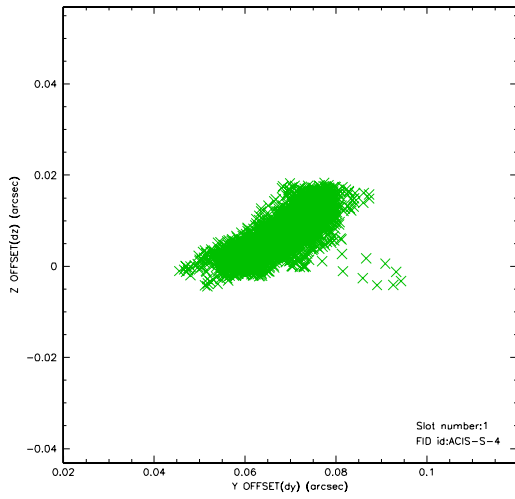


## 2.5 FID Slots

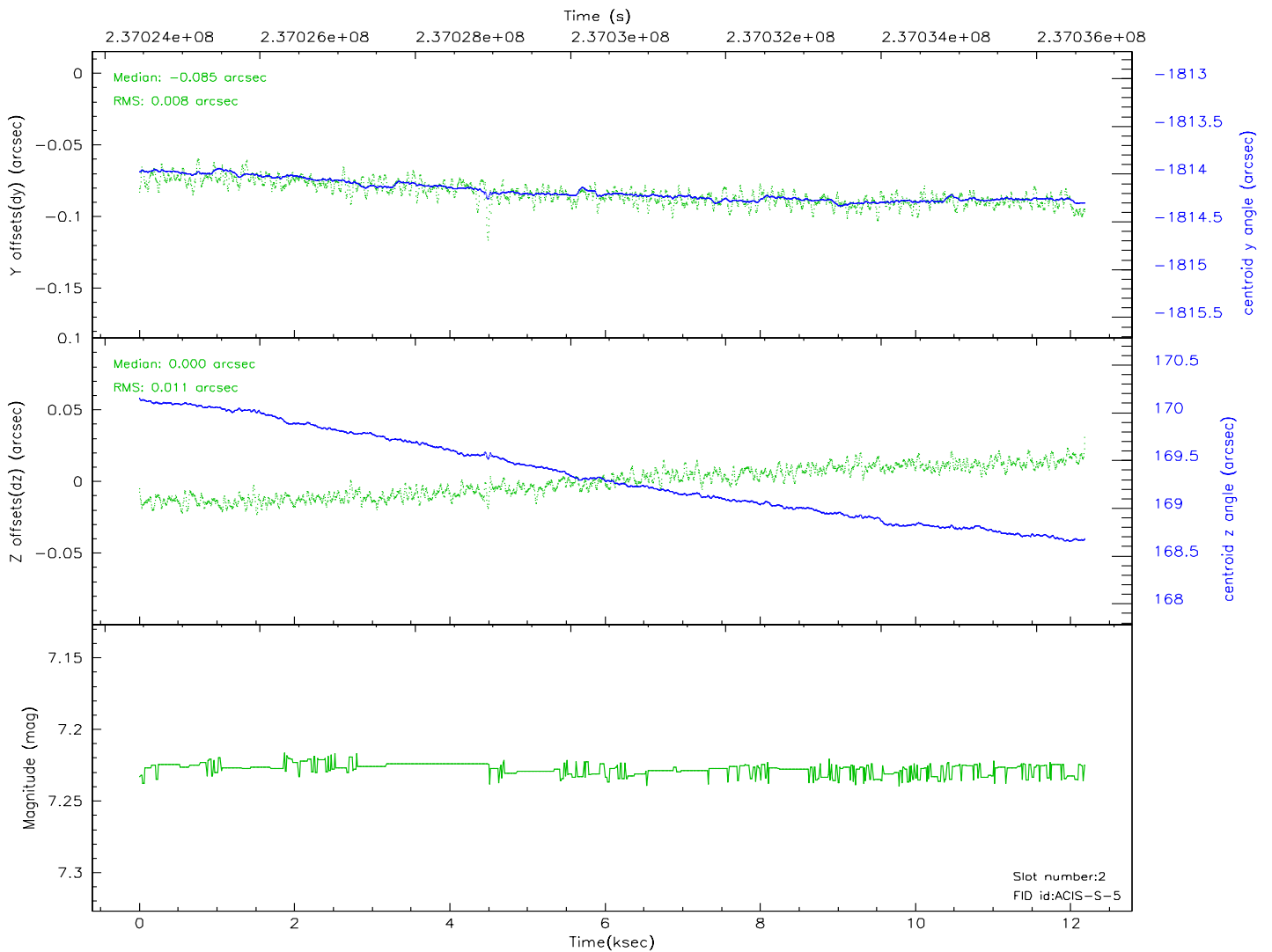
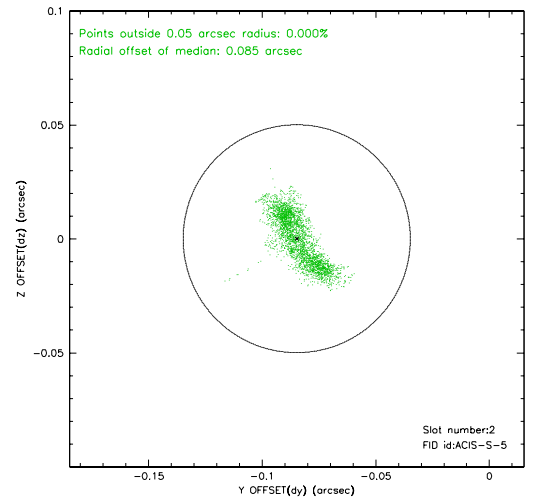
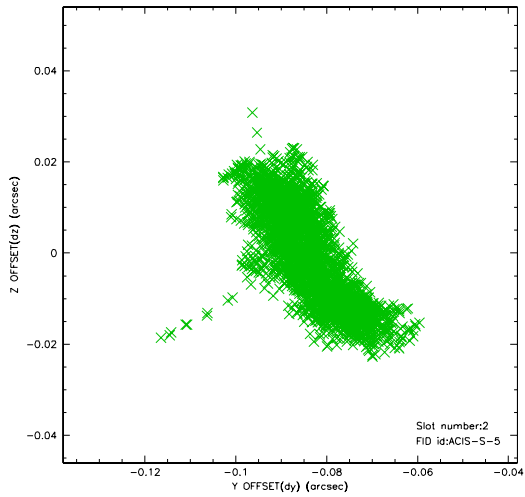
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources

6.64 arcmin



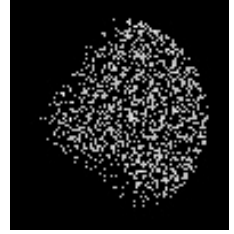
2.83 arcmin



5.40 arcmin



18.60 arcmin



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.17599

## A.2 Comments

Roll preference not met. Monitor constraint met.