

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 4365 - L2 Version 001  
Chandra X-Ray Center

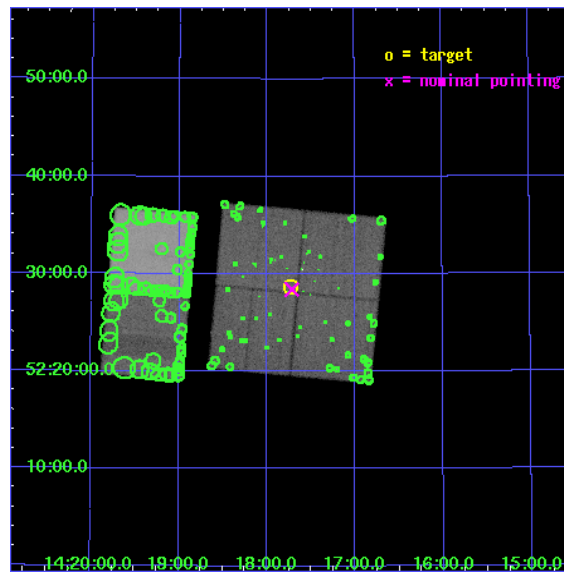
L2 Processing Date : Sep 28 2006

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# 1 Front

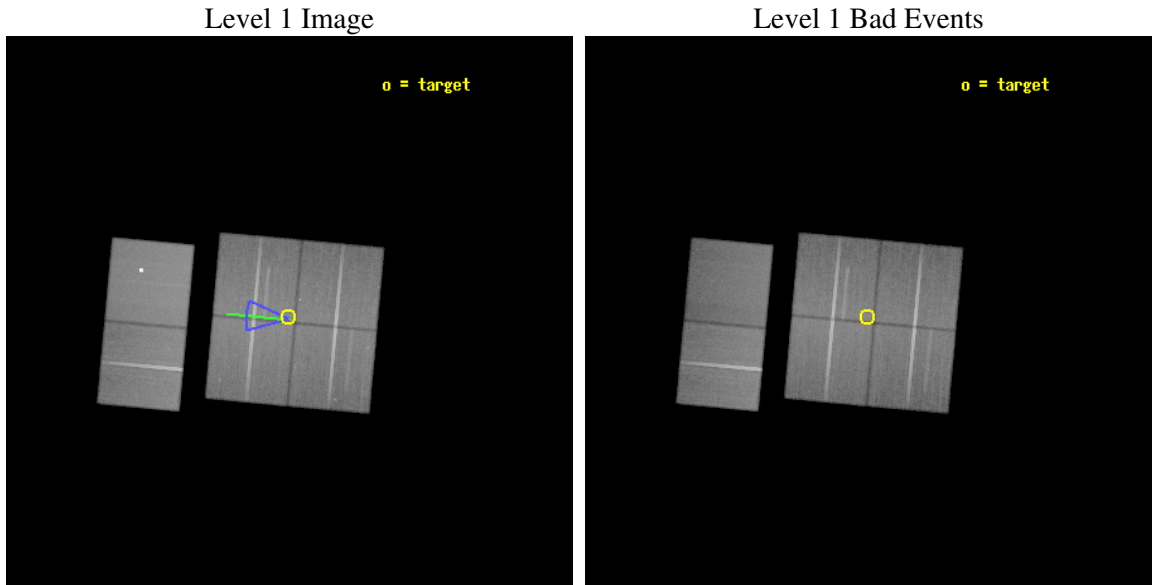
seq_num	900144
obs_id	4365
title	THE X-RAY UNIVERSE AT HIGH REDSHIFT
observer	Professor Kirpal Nandra
object	GROTH-WESTPHAL FIELD
dtcycle	0
cycle	P
ra_targ	214.431667
dec_targ	52.478111
ra_nom	214.42932716597
dec_nom	52.473668001259
roll_nom	275.25625845147
revision	2
ontime	84828.758803457
livetime	83754.605981741
ontime0	84831.999683976
ontime1	84828.758693784
ontime2	84825.517713577
ontime3	84828.758803457
ontime6	84828.758803427
ontime7	84831.999683976
l2events	628843



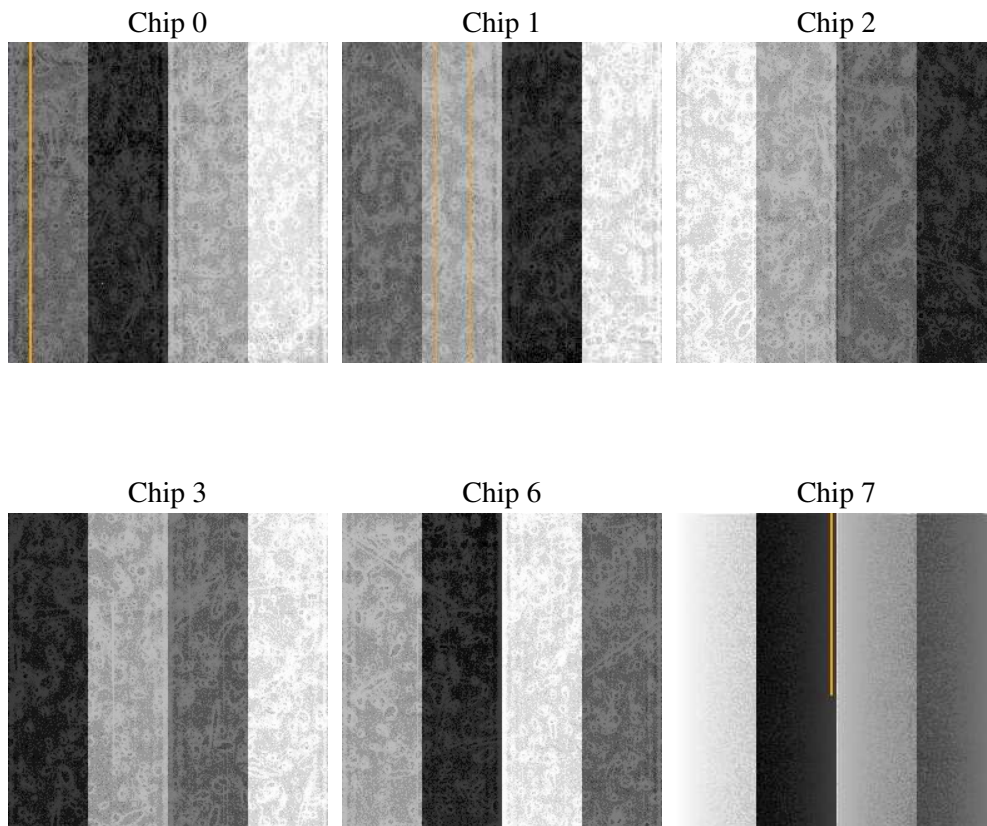
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-28T20:53:28
revision	2

sched_exp_time	84680.000000
ontime	85296.584927082
ontime0	85299.825787693
ontime1	85296.584797502
ontime2	85293.343817294
ontime3	85296.584927082
ontime6	85296.584907144
ontime7	85299.825807601
l1events	3749184

### 2.1.4 Events

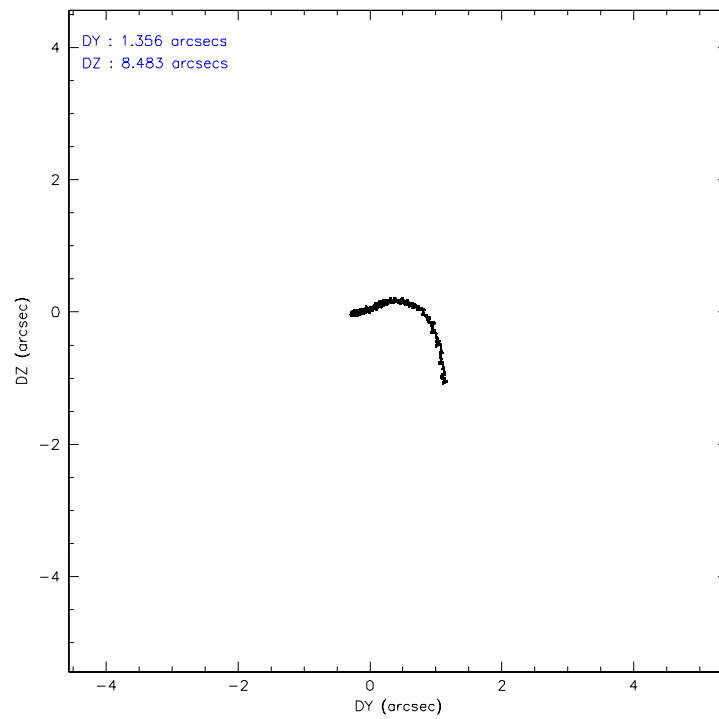
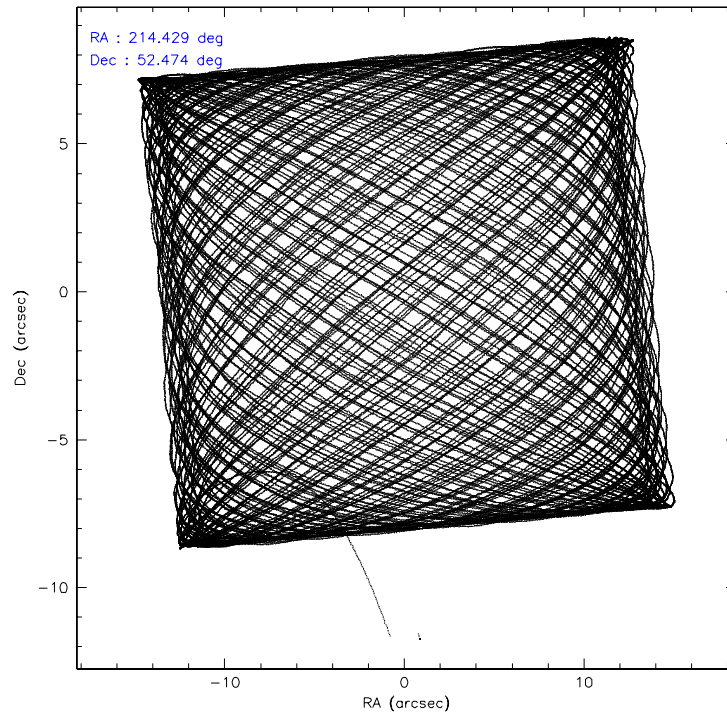
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	565812	564629	626127	606030	642839	743747
rejected events	485178	481432	547169	529559	563979	422521
rejected %	85%	85%	87%	87%	87%	56%

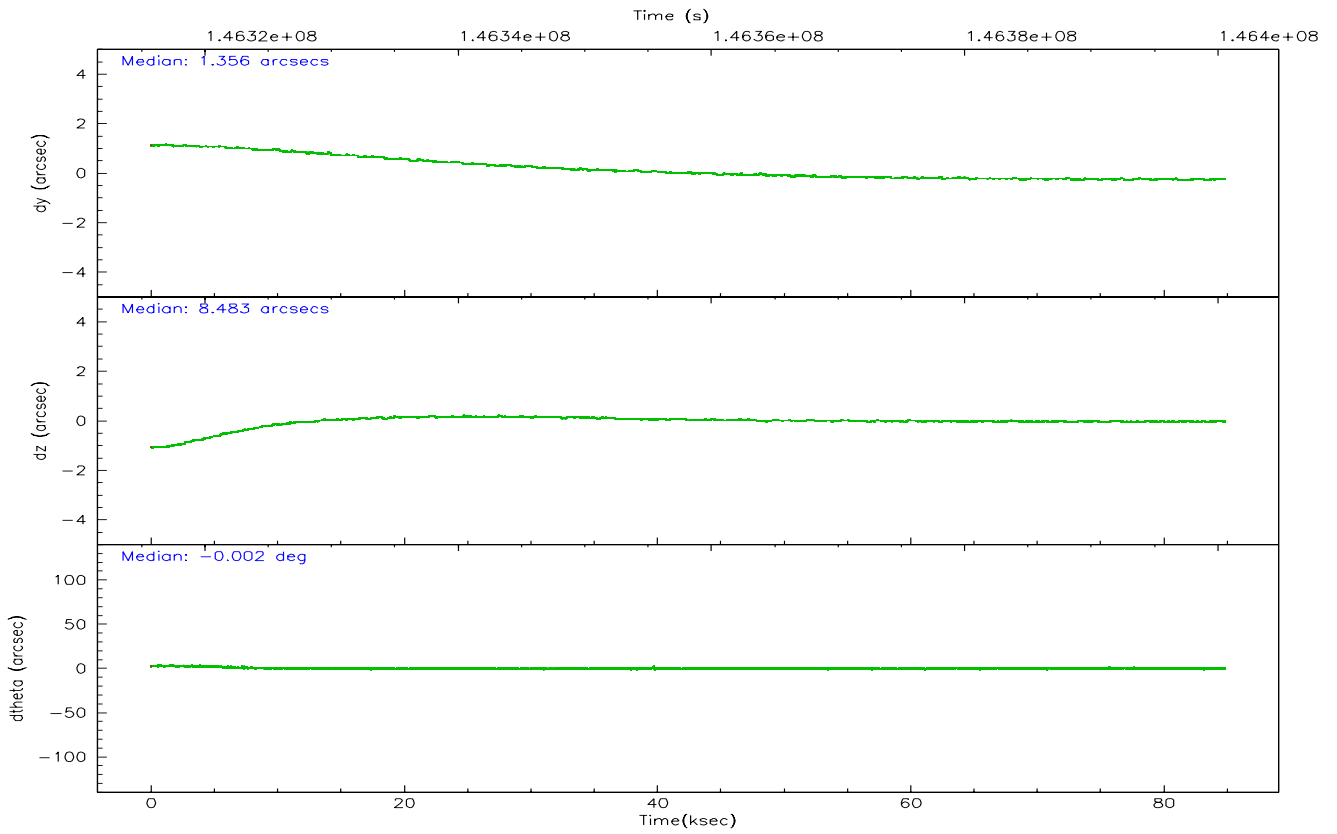
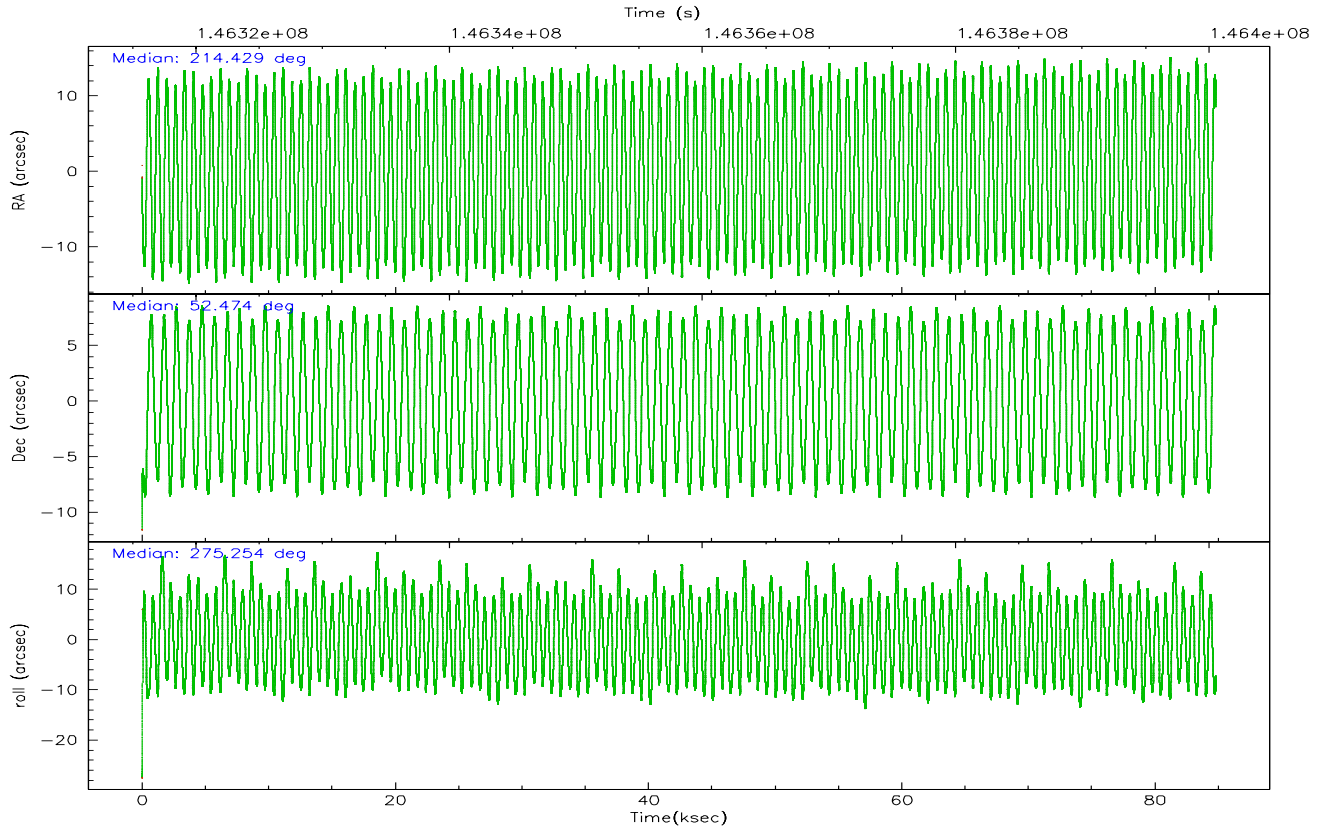
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	38673	37261	39271	37119	35138	45379
	6%	6%	6%	6%	5%	6%
grade 1 events	389	314	418	372	319	469
	0%	0%	0%	0%	0%	0%
grade 2 events	16085	16824	14768	13992	16084	75623
	2%	2%	2%	2%	2%	10%
grade 3 events	7219	7742	6787	6868	7004	15602
	1%	1%	1%	1%	1%	2%
grade 4 events	6663	7419	6905	6827	6768	15115
	1%	1%	1%	1%	1%	2%
grade 5 events	19478	20319	19289	21588	22952	45873
	3%	3%	3%	3%	3%	6%
grade 6 events	12396	14338	11535	11988	14260	171126
	2%	2%	1%	1%	2%	23%
grade 7 events	464909	460412	527154	507276	540314	374560
	82%	81%	84%	83%	84%	50%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	214.403240	214.4293271659715	Subarray requested	NONE	NONE
Pointing Dec	52.495987	52.4736680012589	Alternating exposures requested	N	N
Pointing Roll	275.068273	275.2562584514711	Primary exposure time	0.000000	3.2
Roll angle	275.070000	275.070000			
Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	N	N			
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	146315898.184000	146314613.81678			
Observation start date	2002-08-21T11:17:14	2002-08-21T10:56:53			
Observation end time	146400578.184000	146401076.15784			
Observation end date	2002-08-22T10:48:34	2002-08-22T10:57:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



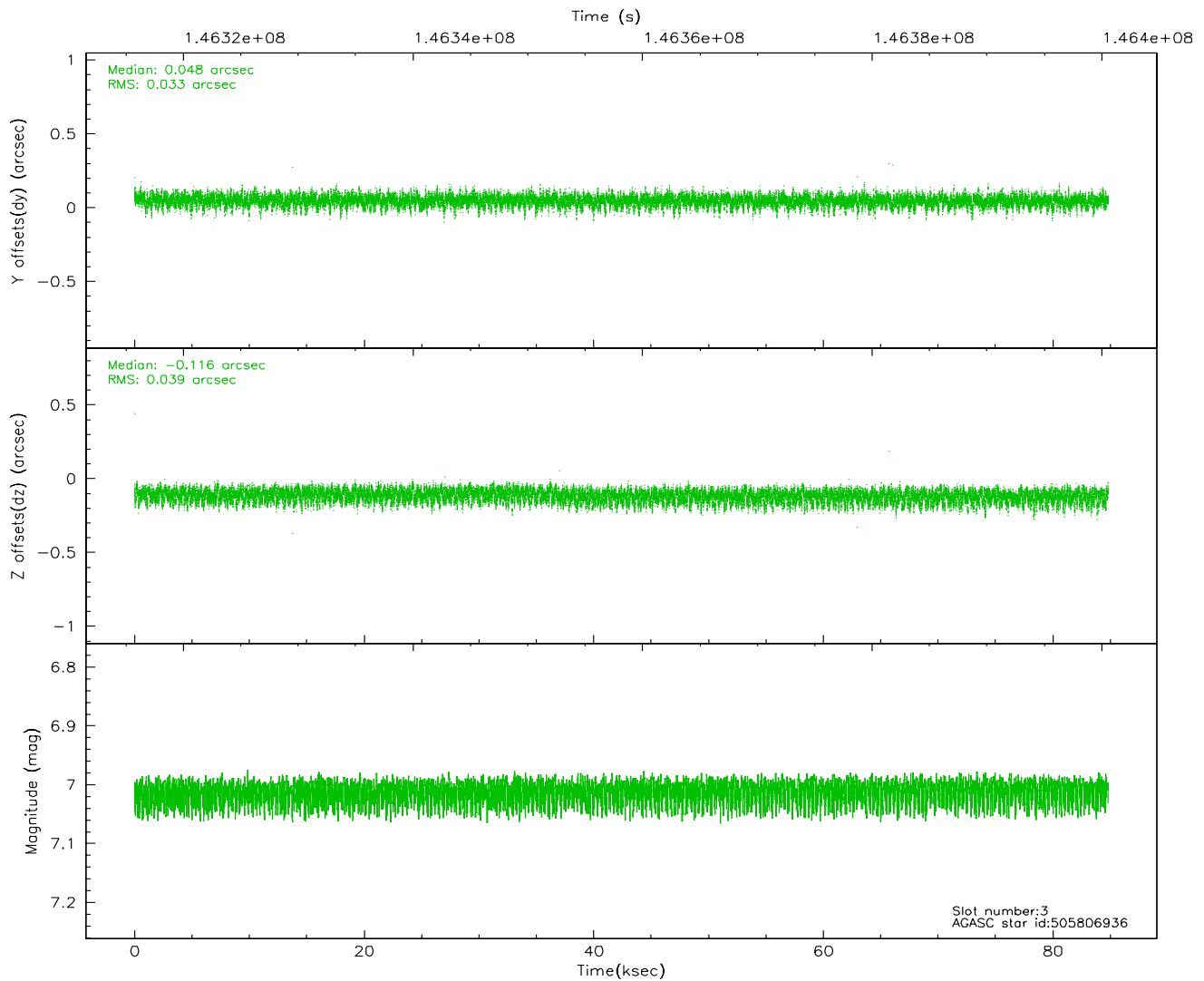
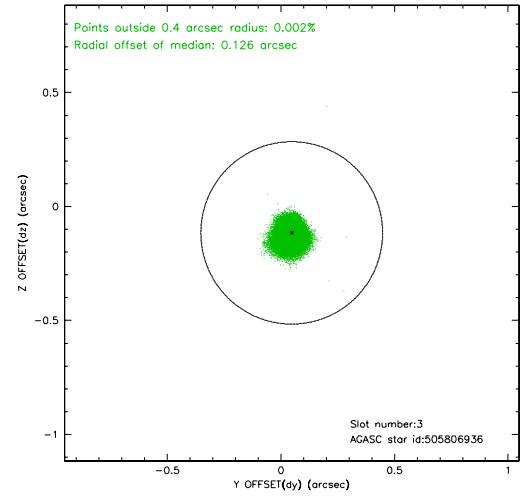
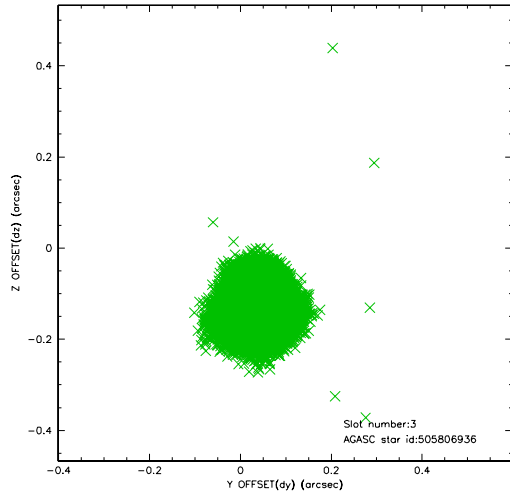


### Slot Statistics

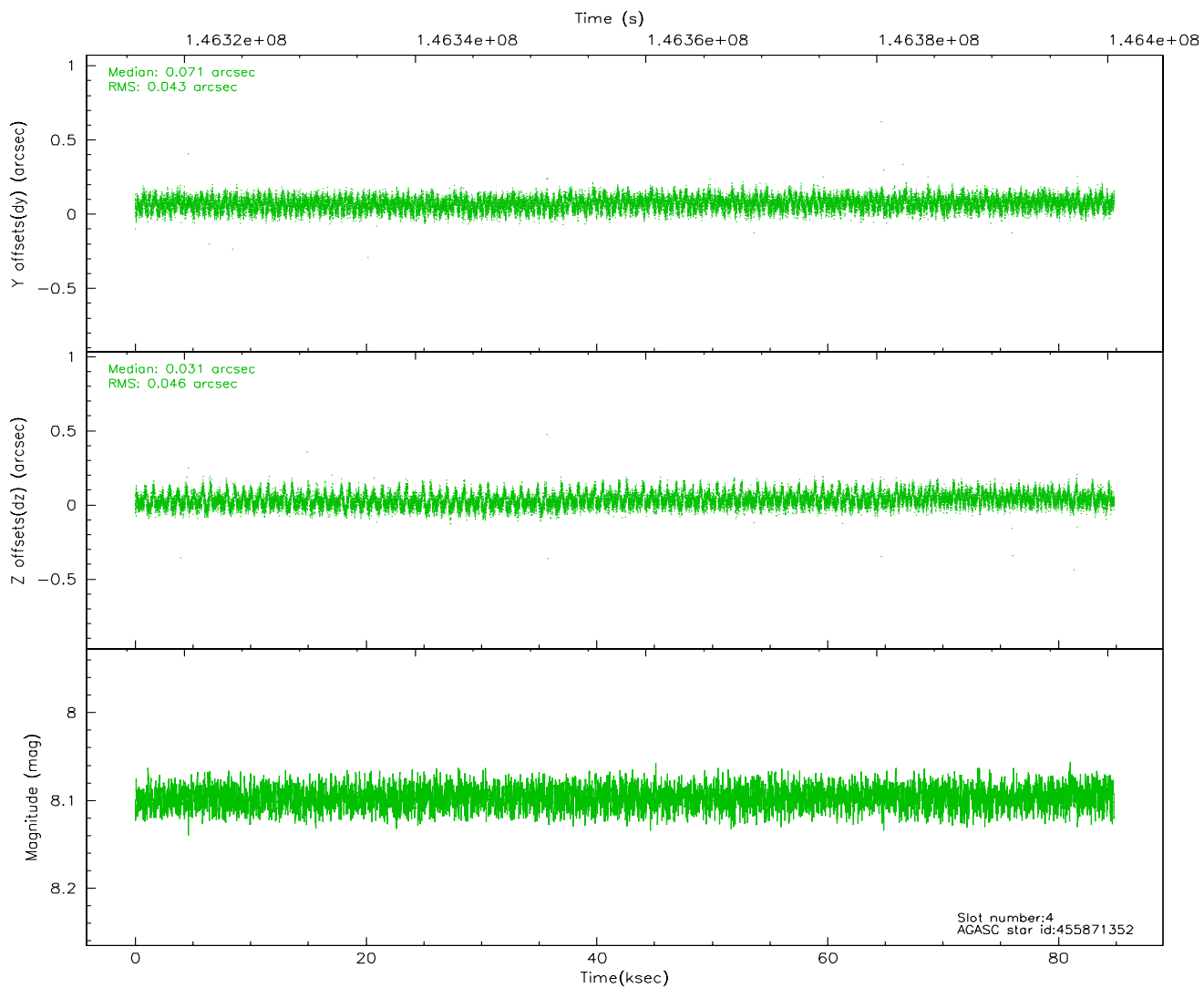
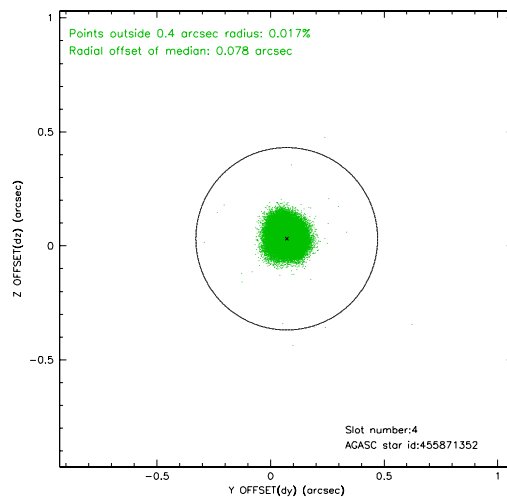
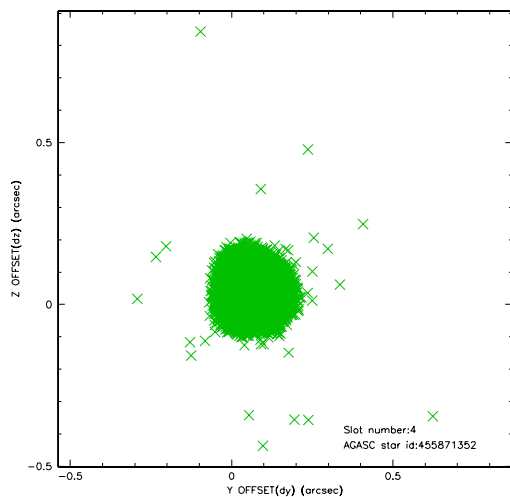
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	20691	-0.055	0.098	0.013	0.034	0.000000	0.000000	938.23	-831.79
1	FID	ACIS-I-5	7.23	20692	-0.024	0.016	0.017	0.027	0.000000	0.000000	-1809.87	1065.68
2	FID	ACIS-I-6	7.26	20691	-0.013	-0.044	0.012	0.025	0.000000	0.000000	403.91	1710.02
3	GUIDE	505806936	7.01	41382	0.048	-0.116	0.054	0.090	213.820815	52.535927	-260.61	-1256.86
4	GUIDE	455871352	8.10	41381	0.071	0.031	0.068	0.106	215.099961	52.172669	1288.26	1430.58
5	GUIDE	505812376	7.55	41312	-0.148	0.015	0.057	0.090	214.039537	52.937930	-1656.24	-644.84
6	GUIDE	505808024	9.05	41369	0.009	0.008	0.063	0.103	213.832794	52.669095	-735.35	-1184.53
7	GUIDE	455872024	9.34	41361	0.021	0.070	0.105	0.168	215.329595	52.026605	1851.67	1896.39

## 2.4 Star Slots

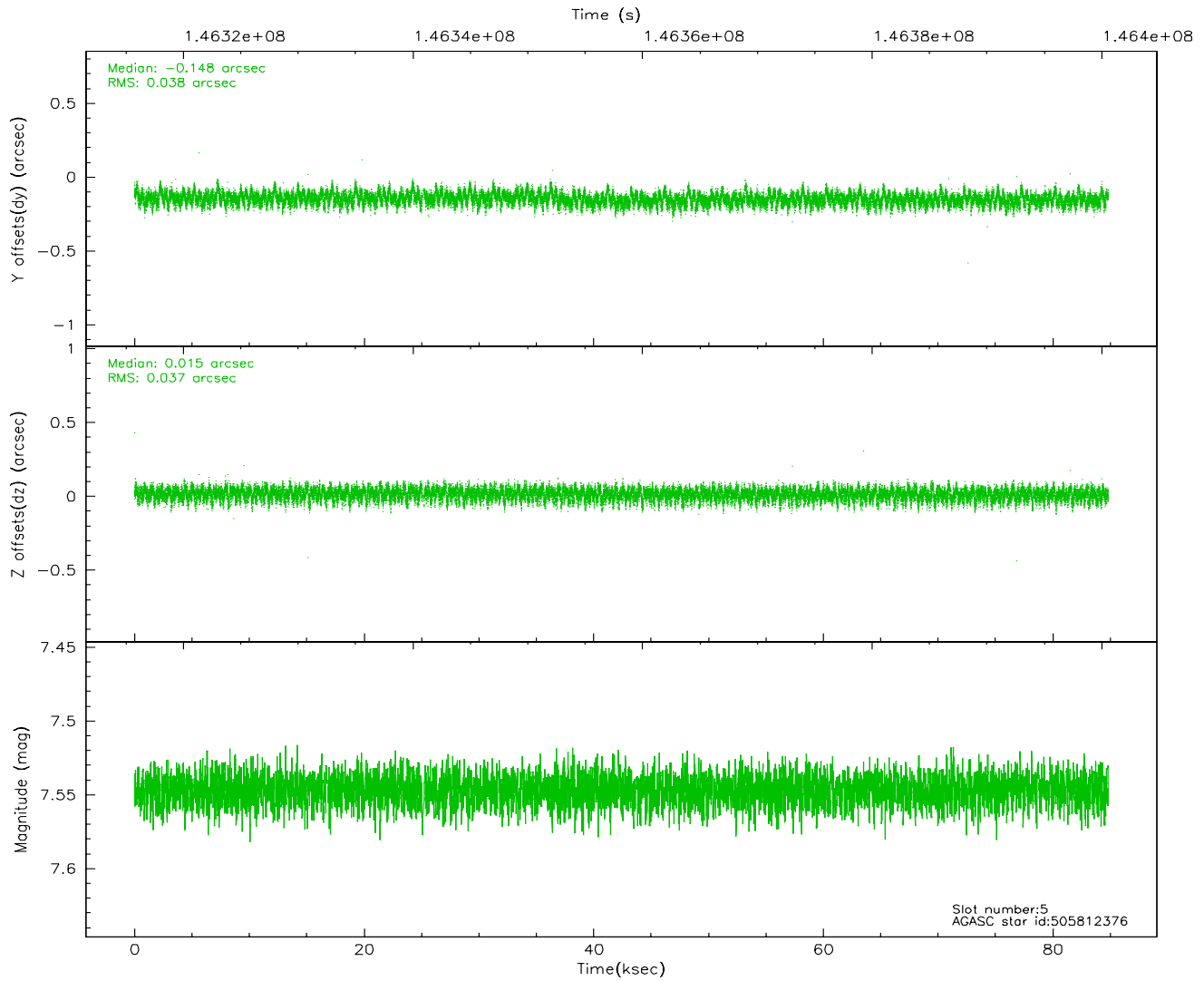
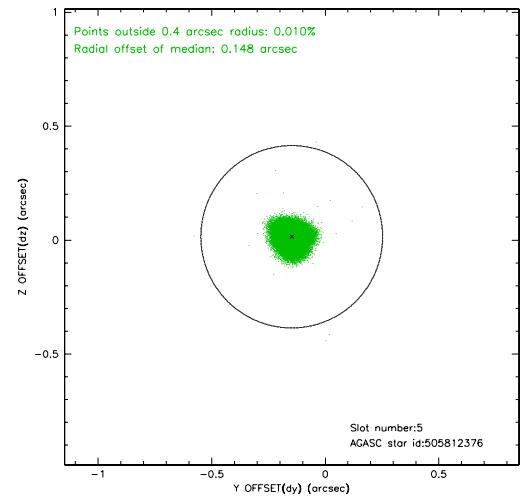
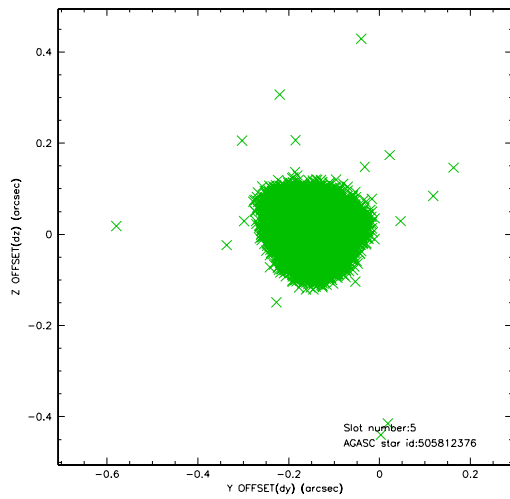
### 2.4.1 Slot 3



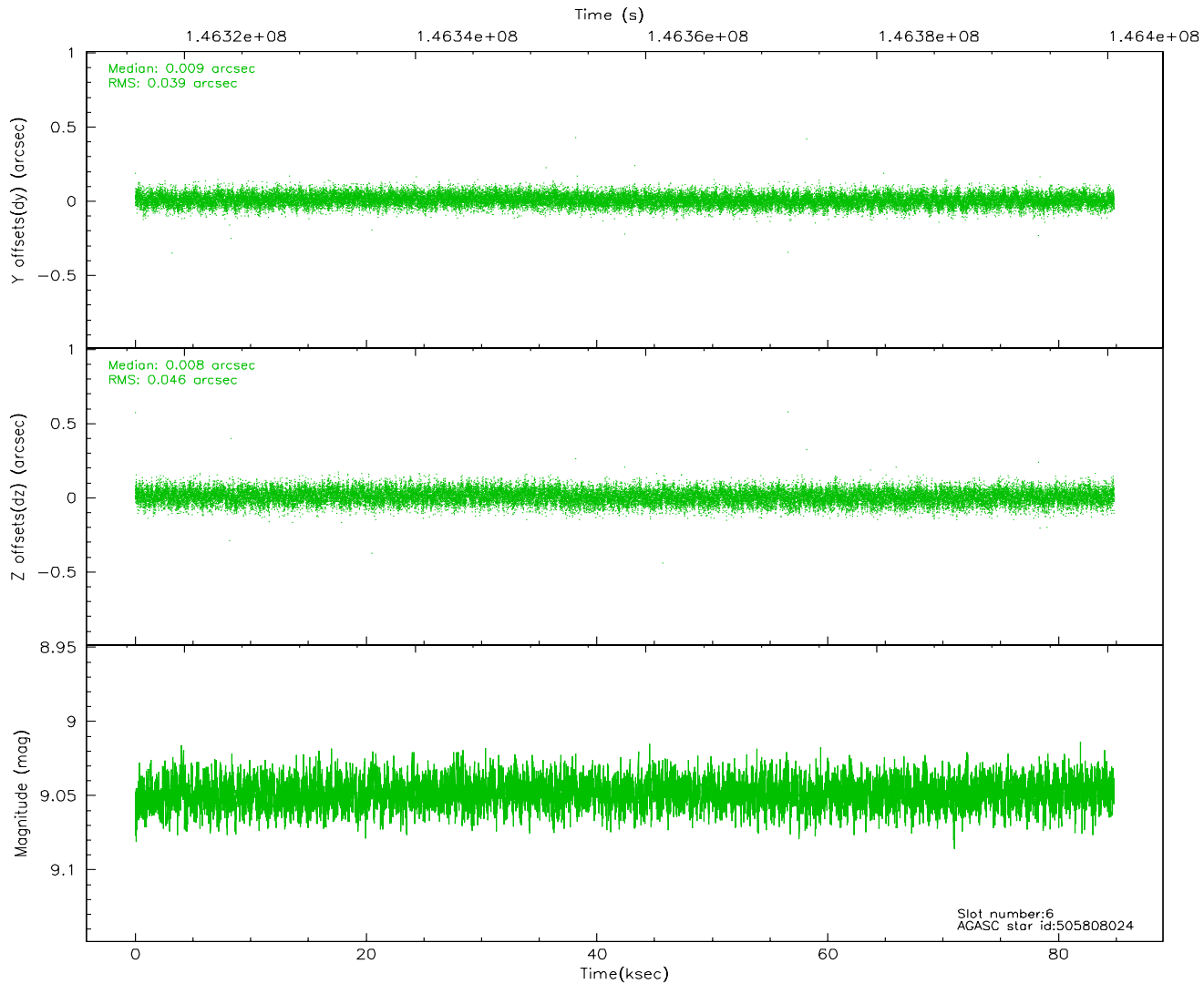
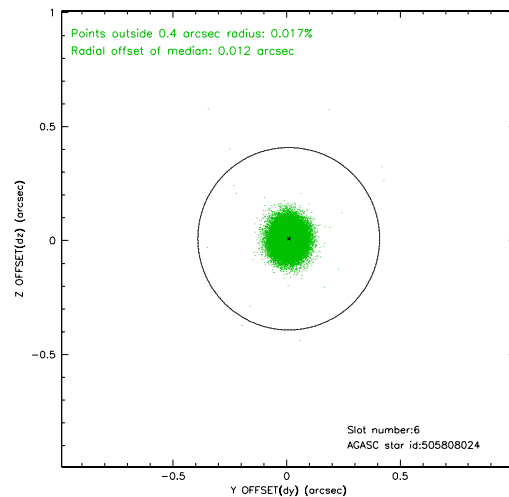
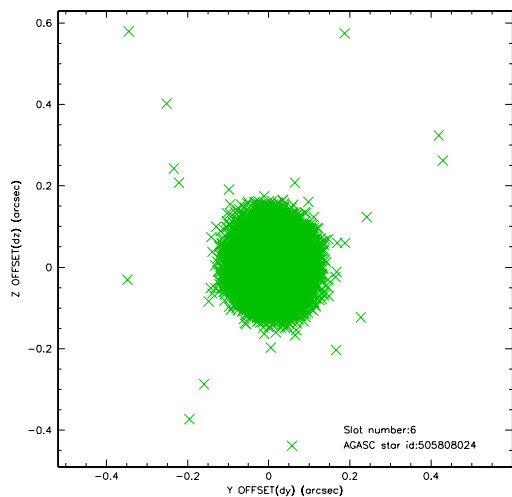
## 2.4.2 Slot 4



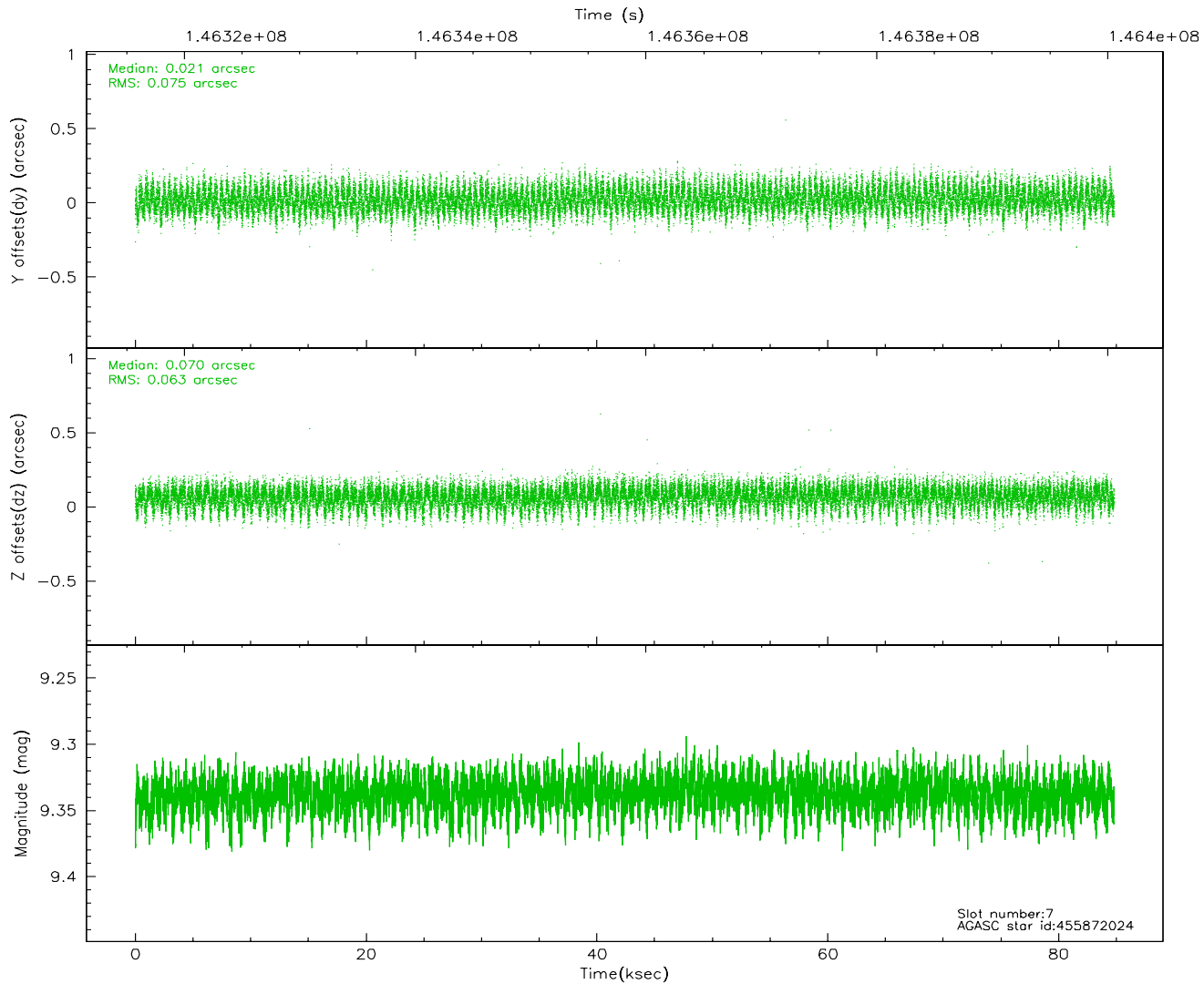
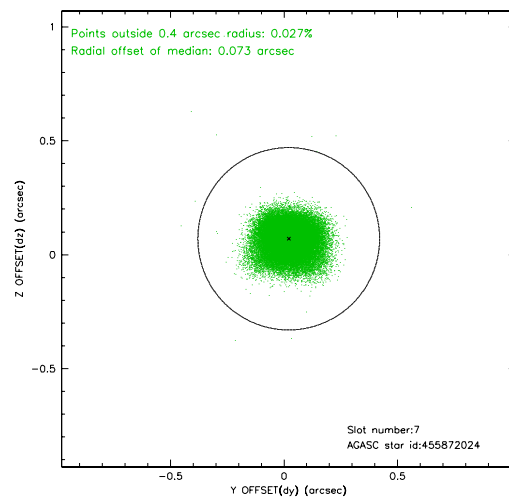
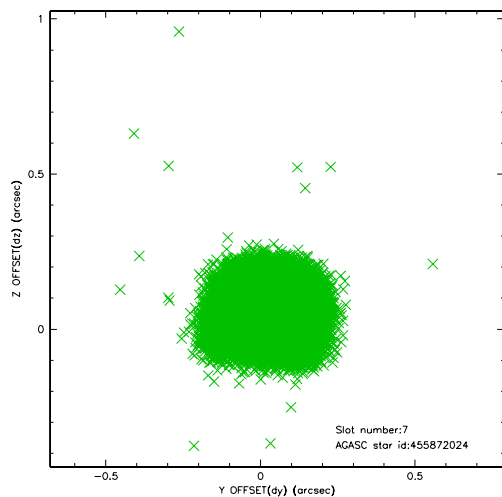
### 2.4.3 Slot 5



## 2.4.4 Slot 6

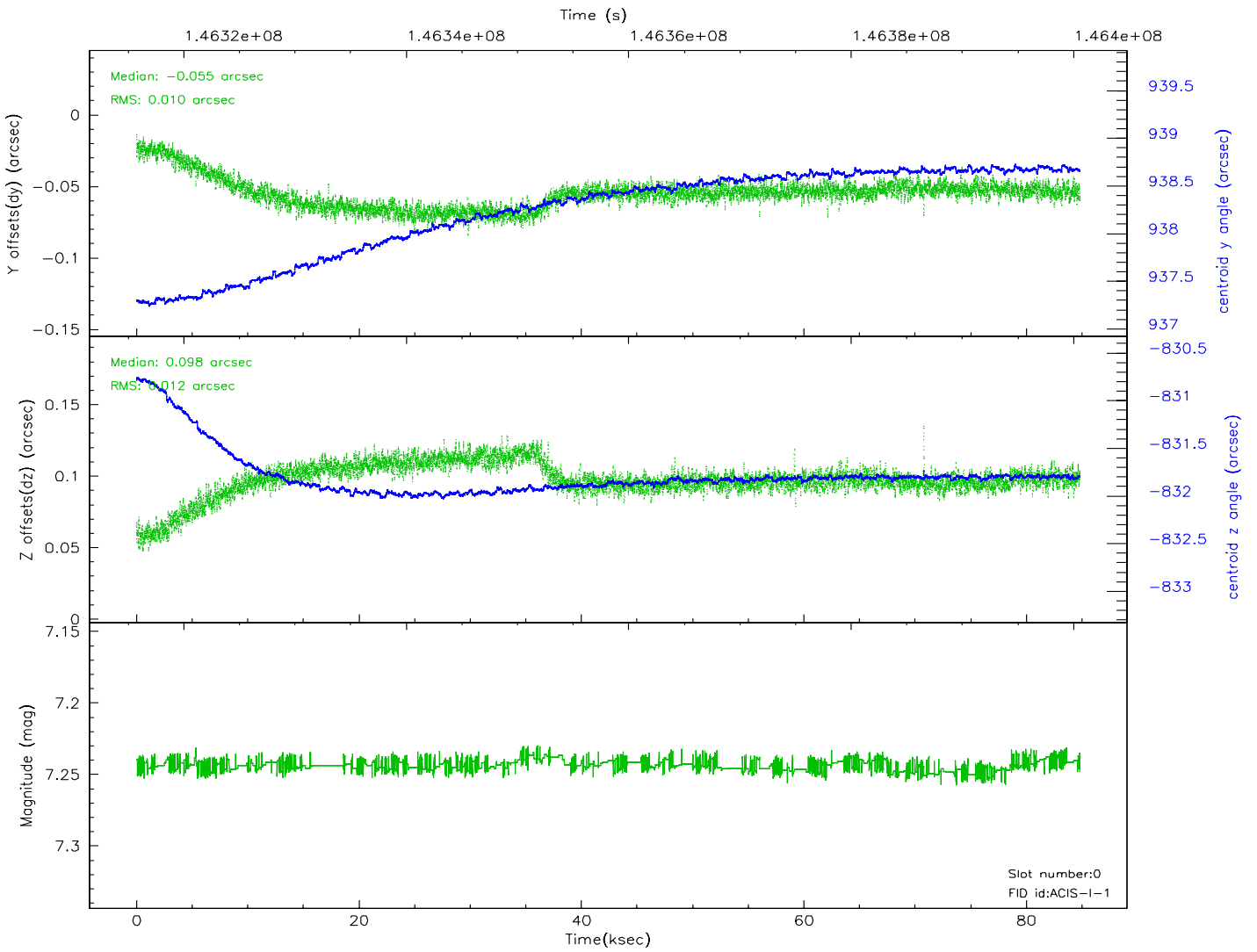
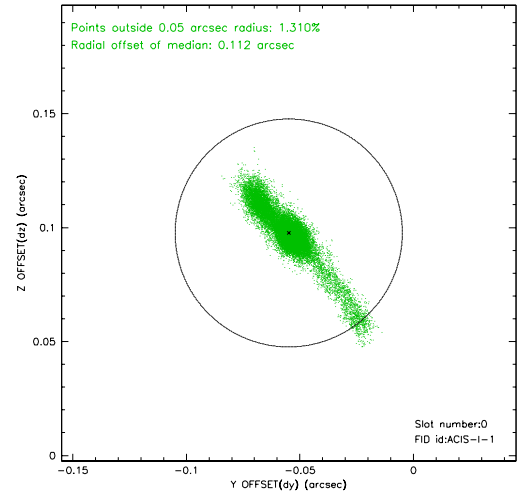
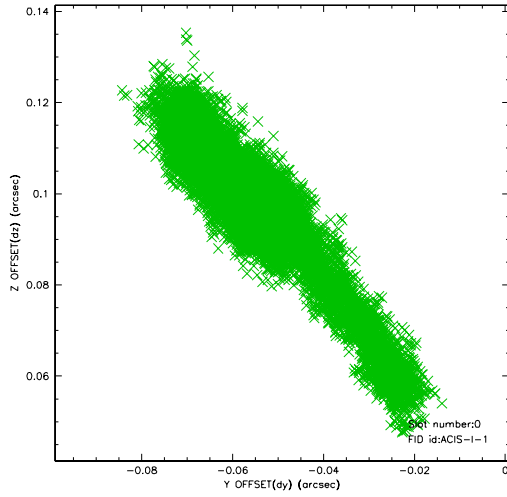


## 2.4.5 Slot 7

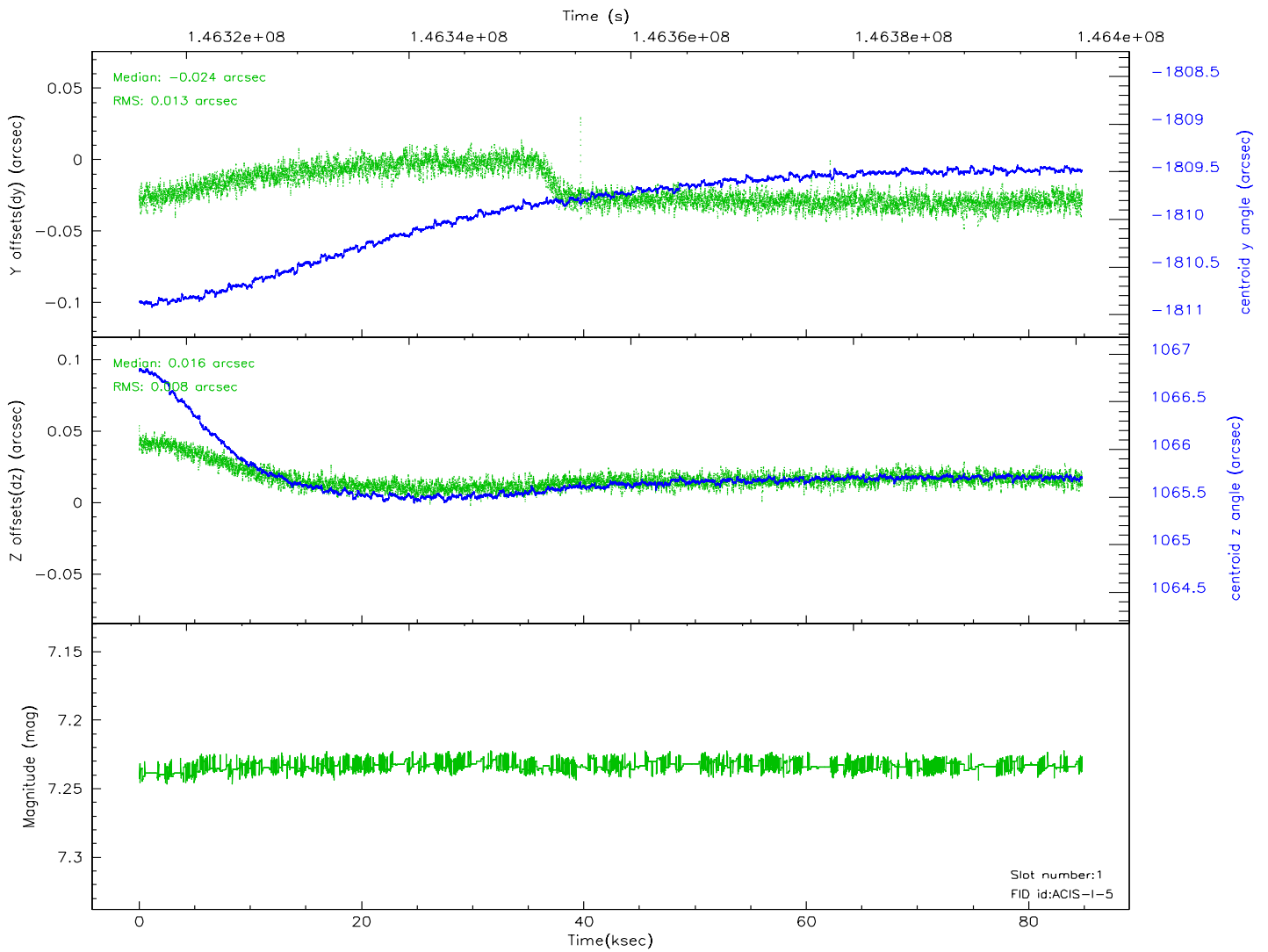
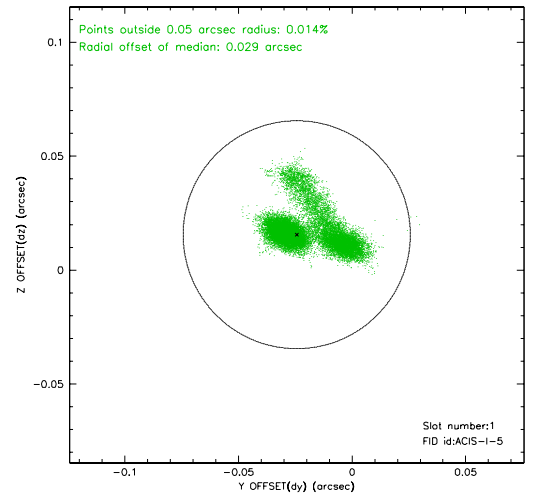
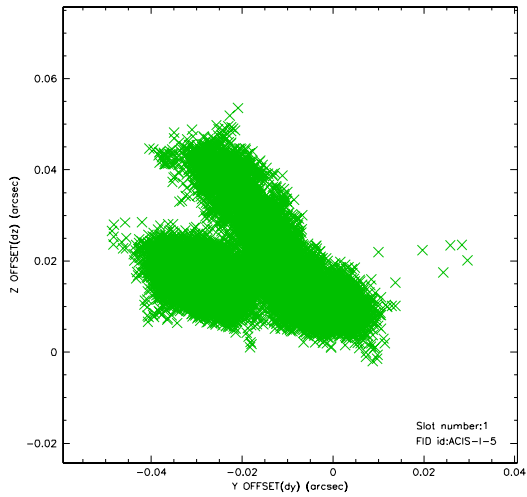


## 2.5 FID Slots

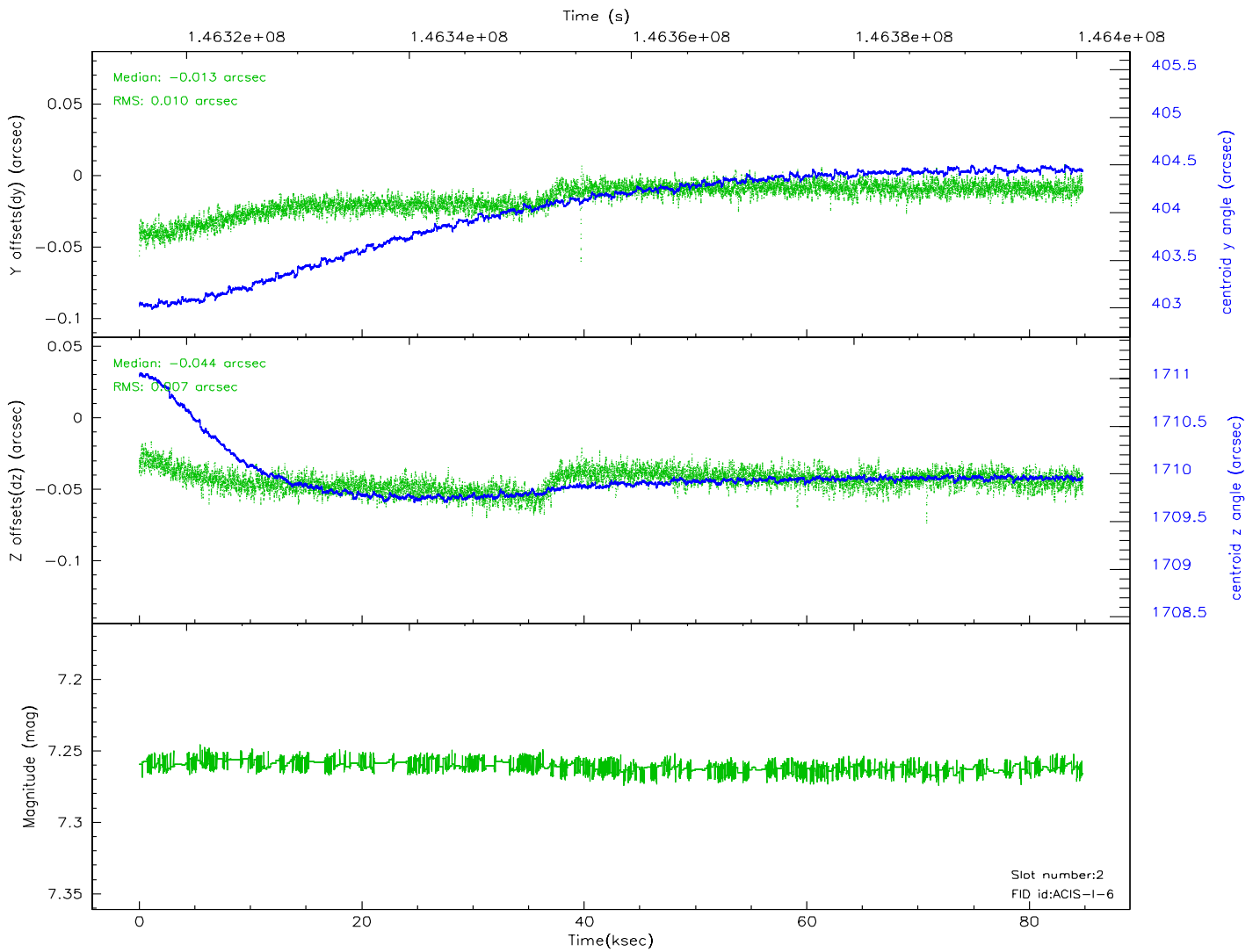
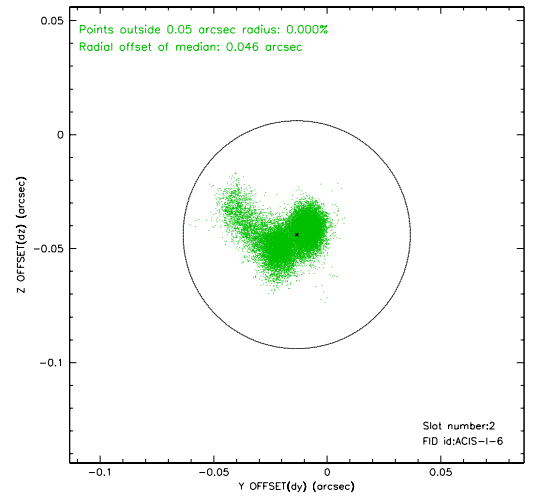
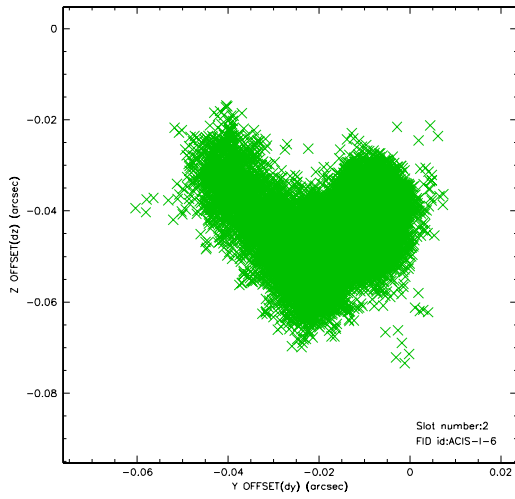
### 2.5.1 Slot 0



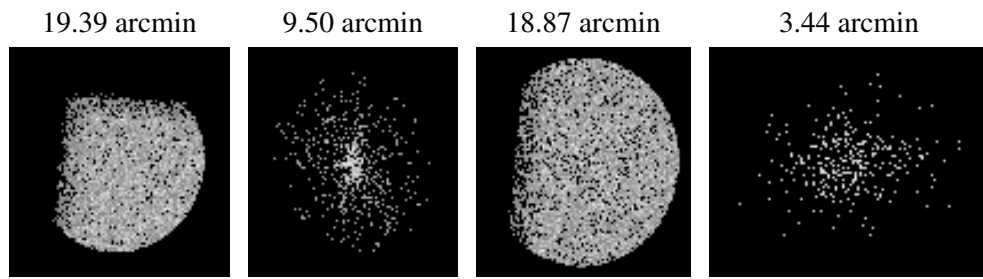
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	84.828

## A.2 Comments

Roll constraint met.