

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2857 - L2 Version 001  
Chandra X-Ray Center

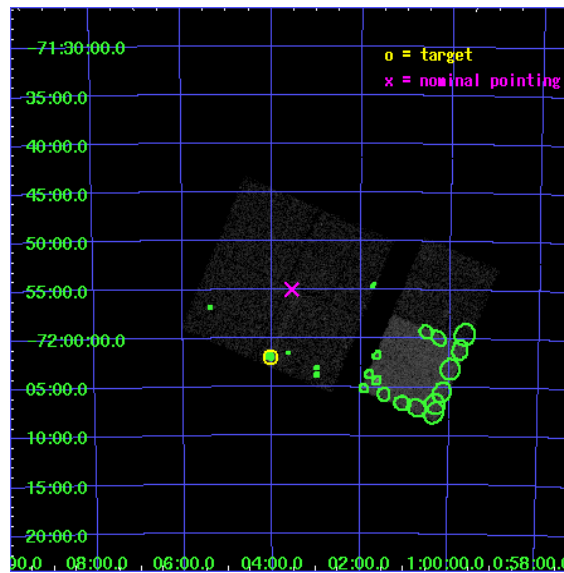
L2 Processing Date : Sep 20 2006

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# 1 Front

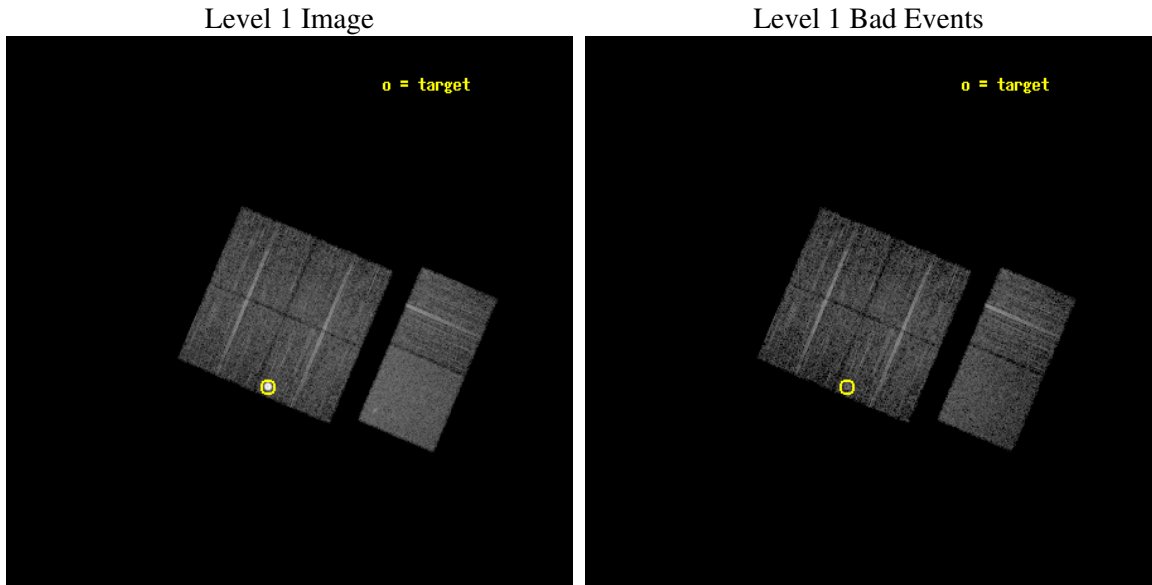
seq_num	590246
obs_id	2857
title	AO3B ACIS-I CALIBRATION OBSERVATIONS OF E0102-72
observer	Dr. CXC Calibration
object	E0102-72.3 [Chip I3, T=120, Offsets=-7,0,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	15.888324642969
dec_nom	-71.91663591589
roll_nom	113.00709019285
revision	2
ontime	7651.1999714971
livetime	7554.3158704584
ontime0	7651.1999714971
ontime1	7651.1999714971
ontime2	7651.1999714971
ontime3	7651.1999714971
ontime6	7651.1999714971
ontime7	7651.1999714971
l2events	72172



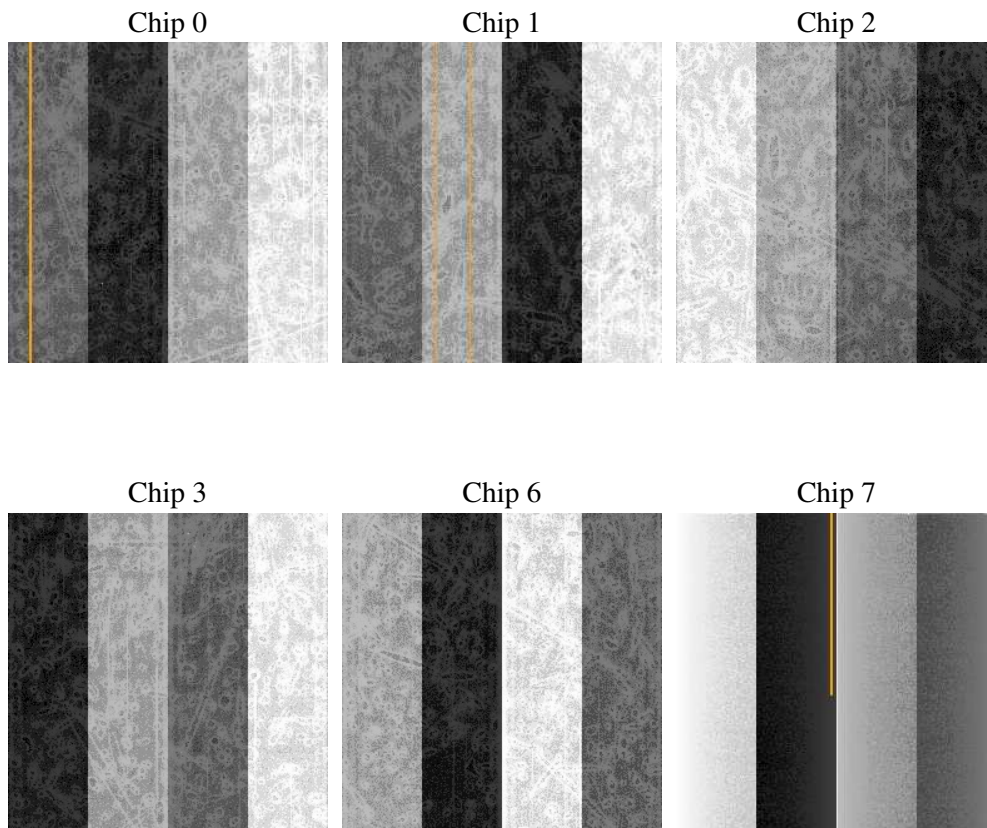
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-20T22:36:39
revision	2

sched_exp_time	7900.000000
ontime	7658.4849434793
ontime0	7658.4849235713
ontime1	7658.4849235713
ontime2	7658.4849434793
ontime3	7658.4849434793
ontime6	7658.4849235713
ontime7	7658.4849235713
l1events	327409

### 2.1.4 Events

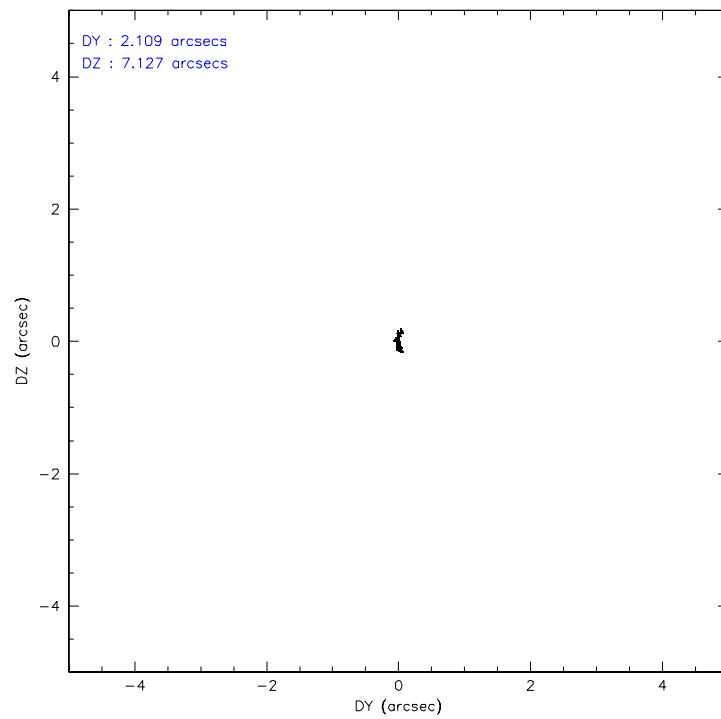
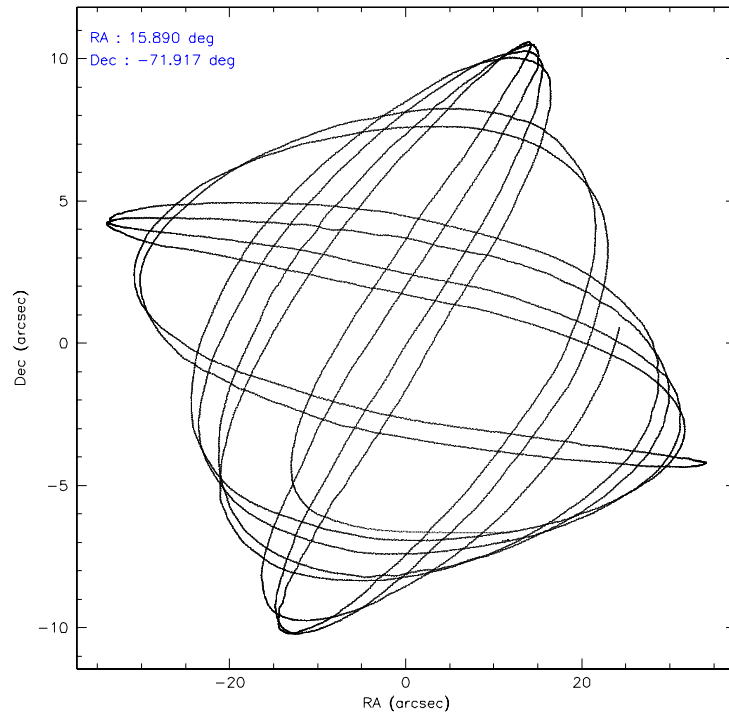
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	44289	44976	48868	71160	52523	65593
rejected events	38539	38744	42949	43543	46619	40052
rejected %	87%	86%	87%	61%	88%	61%

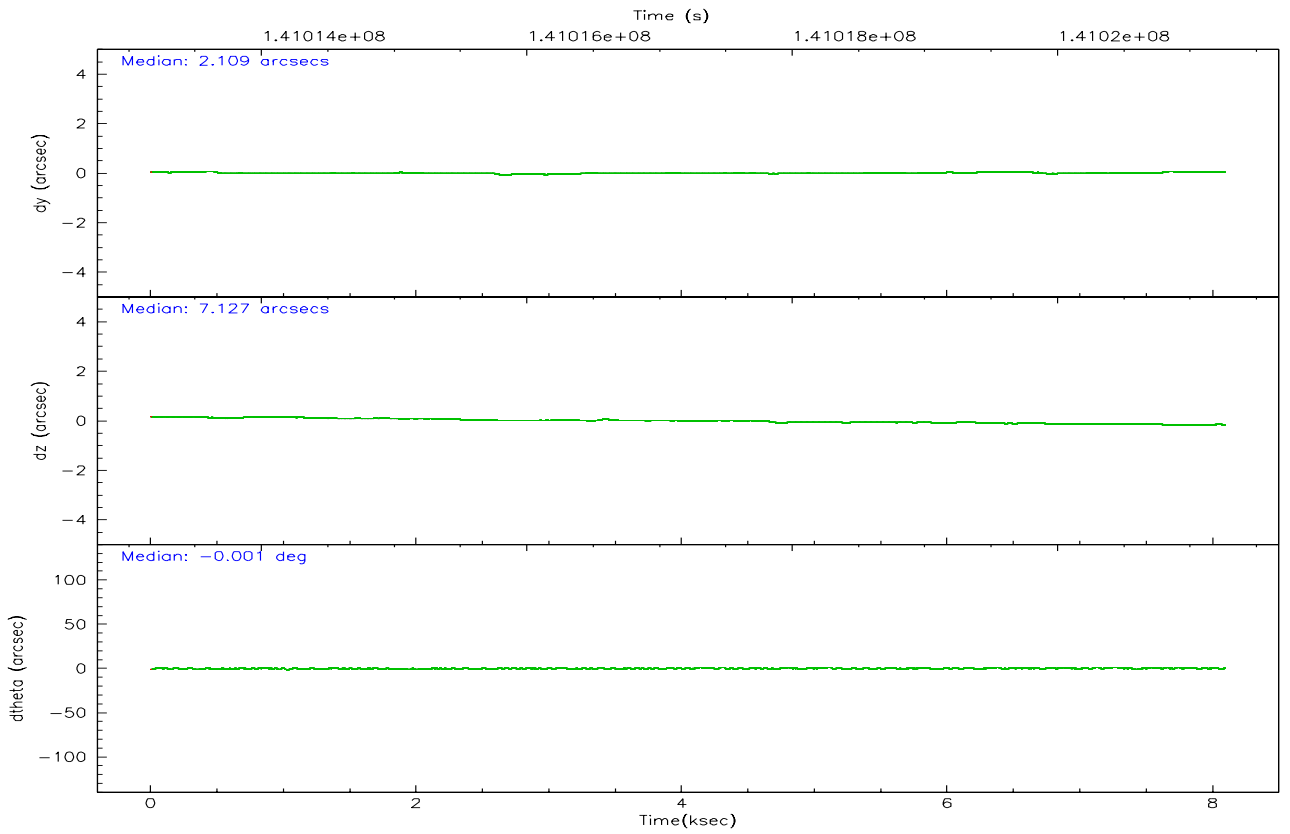
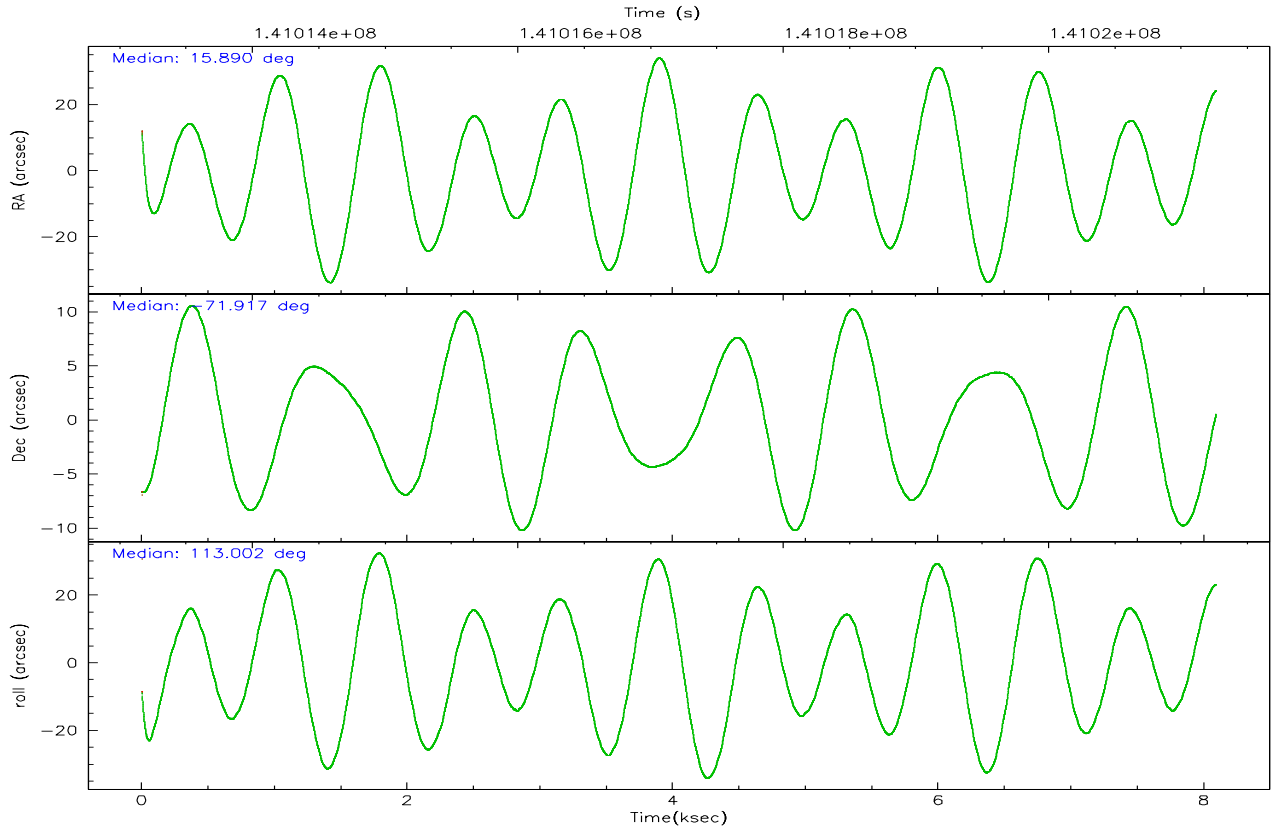
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2420	2565	2564	21680	2384	1802
	5%	5%	5%	30%	4%	2%
grade 1 events	22	26	28	153	28	34
	0%	0%	0%	0%	0%	0%
grade 2 events	1180	1302	1266	2843	1226	6329
	2%	2%	2%	3%	2%	9%
grade 3 events	551	620	523	981	569	1354
	1%	1%	1%	1%	1%	2%
grade 4 events	537	590	531	928	585	1299
	1%	1%	1%	1%	1%	1%
grade 5 events	1912	1992	1668	2011	2178	4389
	4%	4%	3%	2%	4%	6%
grade 6 events	1064	1158	1038	1212	1142	14784
	2%	2%	2%	1%	2%	22%
grade 7 events	36603	36723	41250	41352	44411	35602
	82%	81%	84%	58%	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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	15.959066	15.88832464296885	Subarray requested	NONE	NONE
Pointing Dec	-71.933010	-71.91663591588977	Alternating exposures requested	N	N
Pointing Roll	112.865665	113.0070901928522	Primary exposure time	0.000000	3.2
Window start time	139276864.184000	139276864.184000			
Window stop time	141782464.184000	141782464.184000			
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	141013363.184000	141012543.82388			
Observation start date	2002-06-21T02:21:39	2002-06-21T02:09:03			
Observation end time	141021263.184000	141021397.26174			
Observation end date	2002-06-21T04:33:19	2002-06-21T04:36:37			
Read mode	TIMED	TIMED			

## 2.3 Aspect



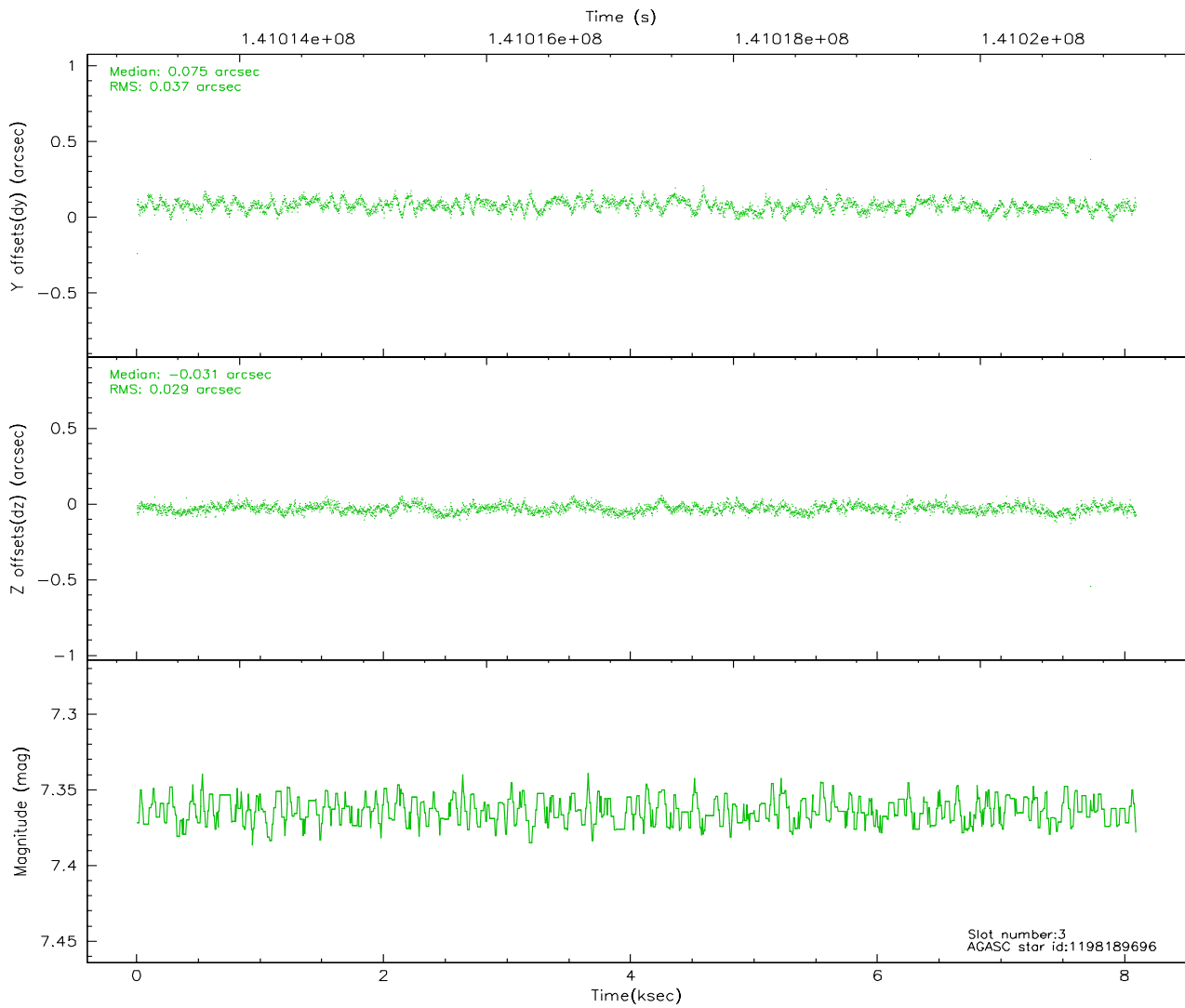
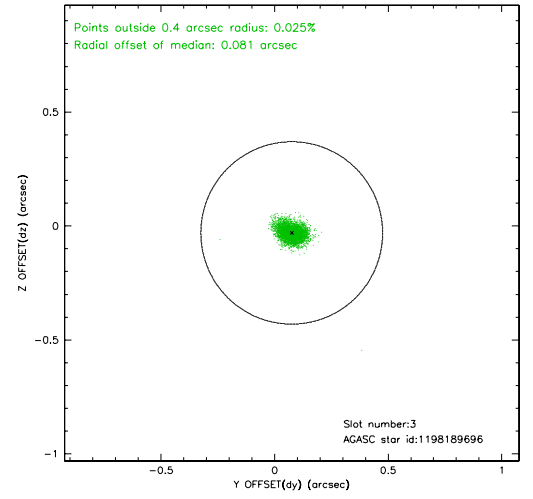
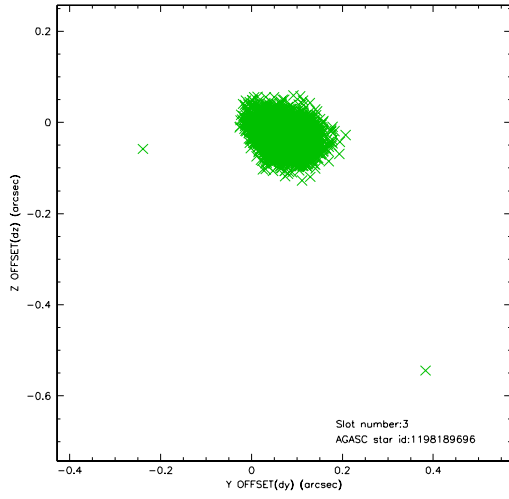


### Slot Statistics

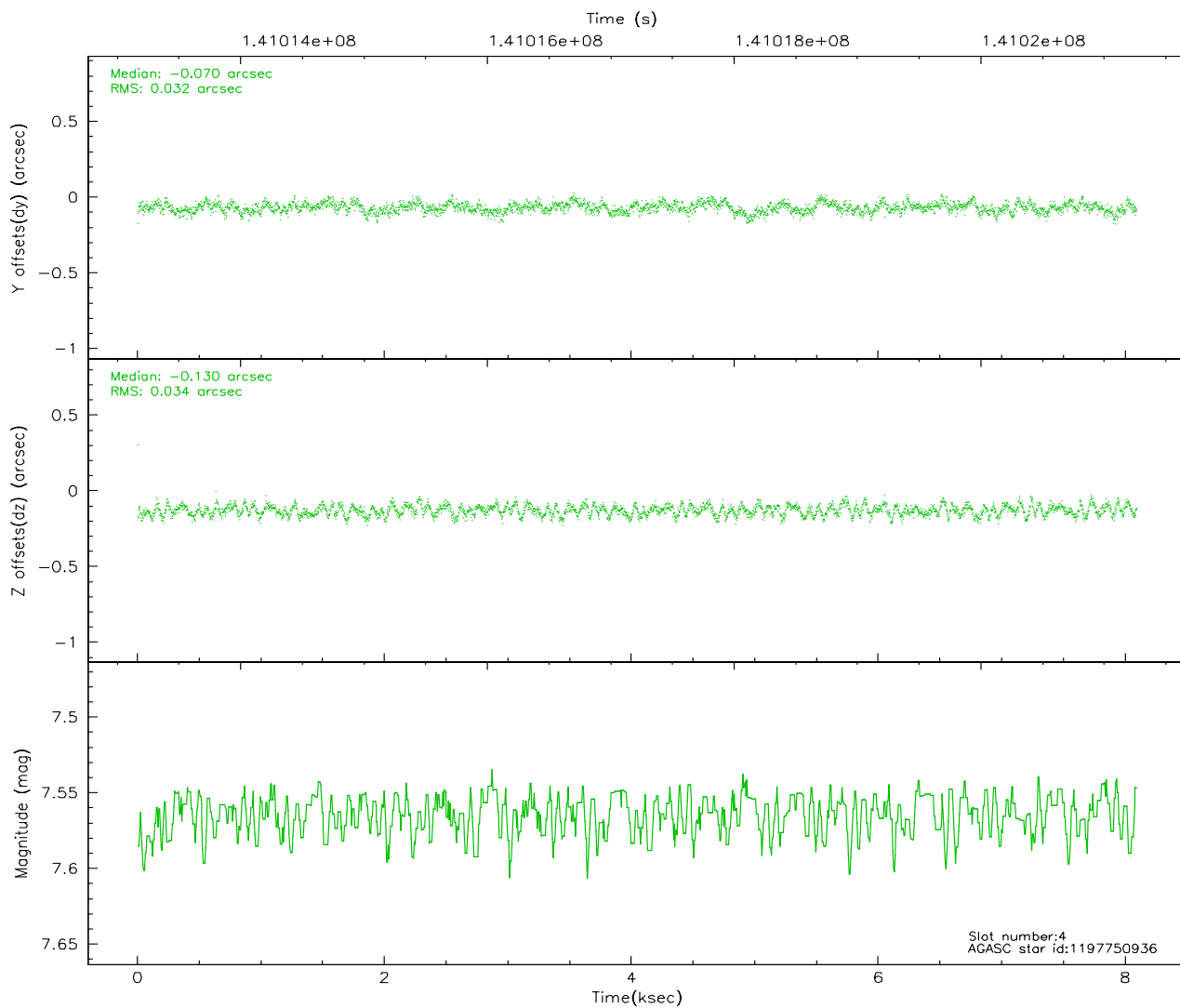
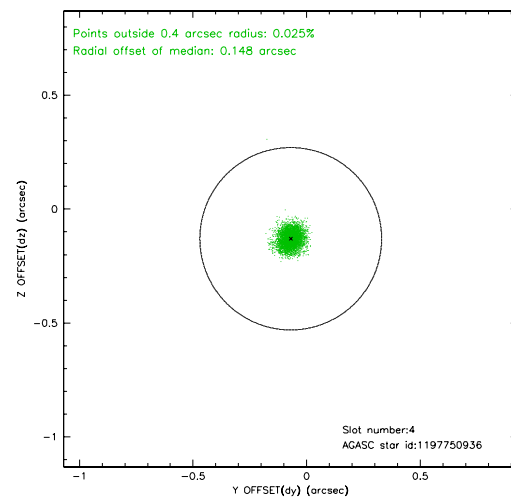
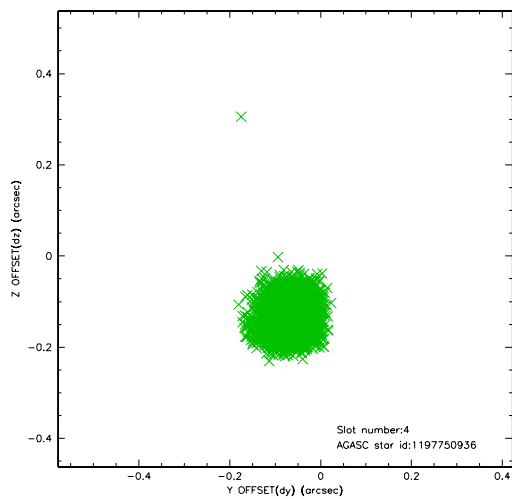
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1974	-0.030	0.059	0.007	0.013	0.000000	0.000000	937.65	-830.48
1	FID	ACIS-I-5	7.23	1974	-0.010	0.040	0.006	0.010	0.000000	0.000000	-1810.00	1066.71
2	FID	ACIS-I-6	7.26	1974	-0.051	-0.028	0.007	0.013	0.000000	0.000000	402.49	1711.88
3	GUIDE	1198189696	7.36	3947	0.075	-0.031	0.049	0.078	15.223750	-72.697522	-2233.92	1797.75
4	GUIDE	1197750936	7.56	3947	-0.070	-0.130	0.050	0.079	15.387940	-71.549550	1522.00	66.08
5	GUIDE	1197884536	8.51	3945	0.073	0.045	0.073	0.113	17.160729	-71.835289	-210.87	-1372.78
6	GUIDE	1197878768	9.62	3940	-0.059	0.131	0.099	0.161	16.656786	-71.304581	1768.37	-1618.08
7	GUIDE	1197749416	10.28	3943	-0.023	-0.012	0.162	0.269	13.610513	-71.871242	1180.69	2357.64

## 2.4 Star Slots

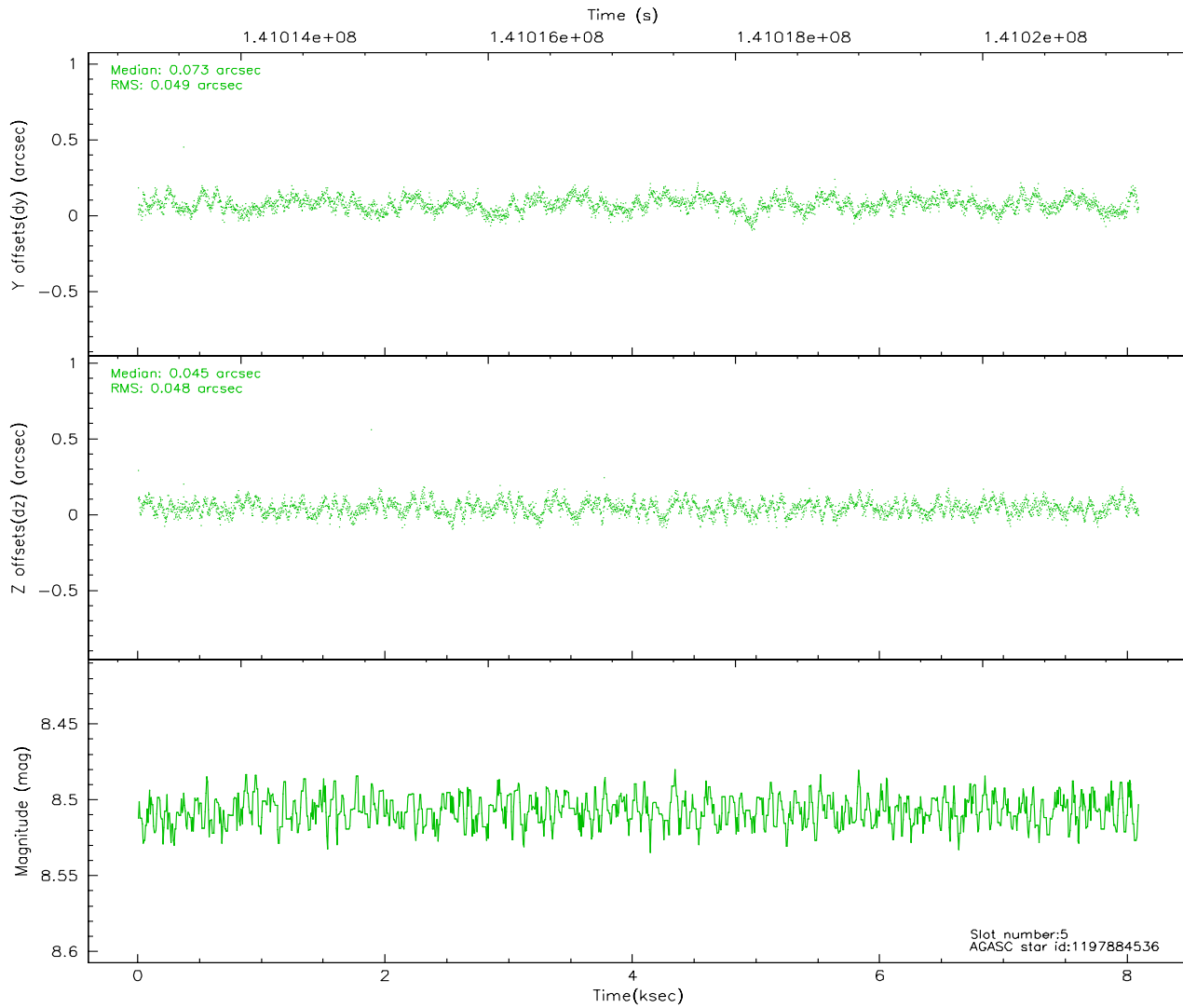
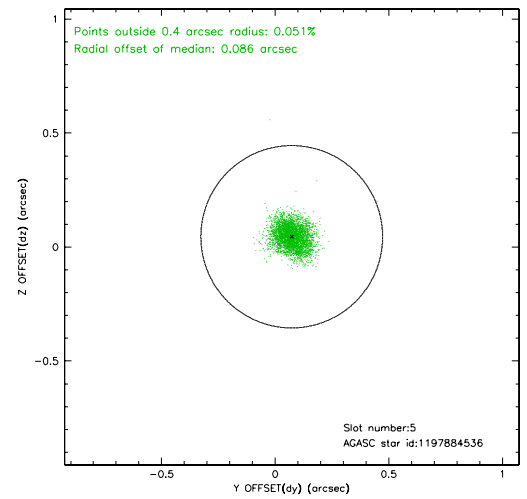
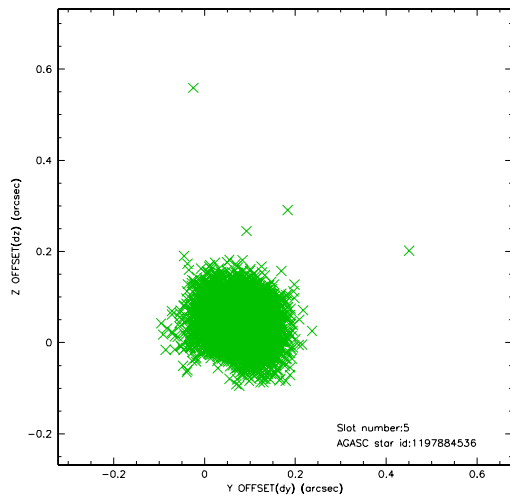
### 2.4.1 Slot 3



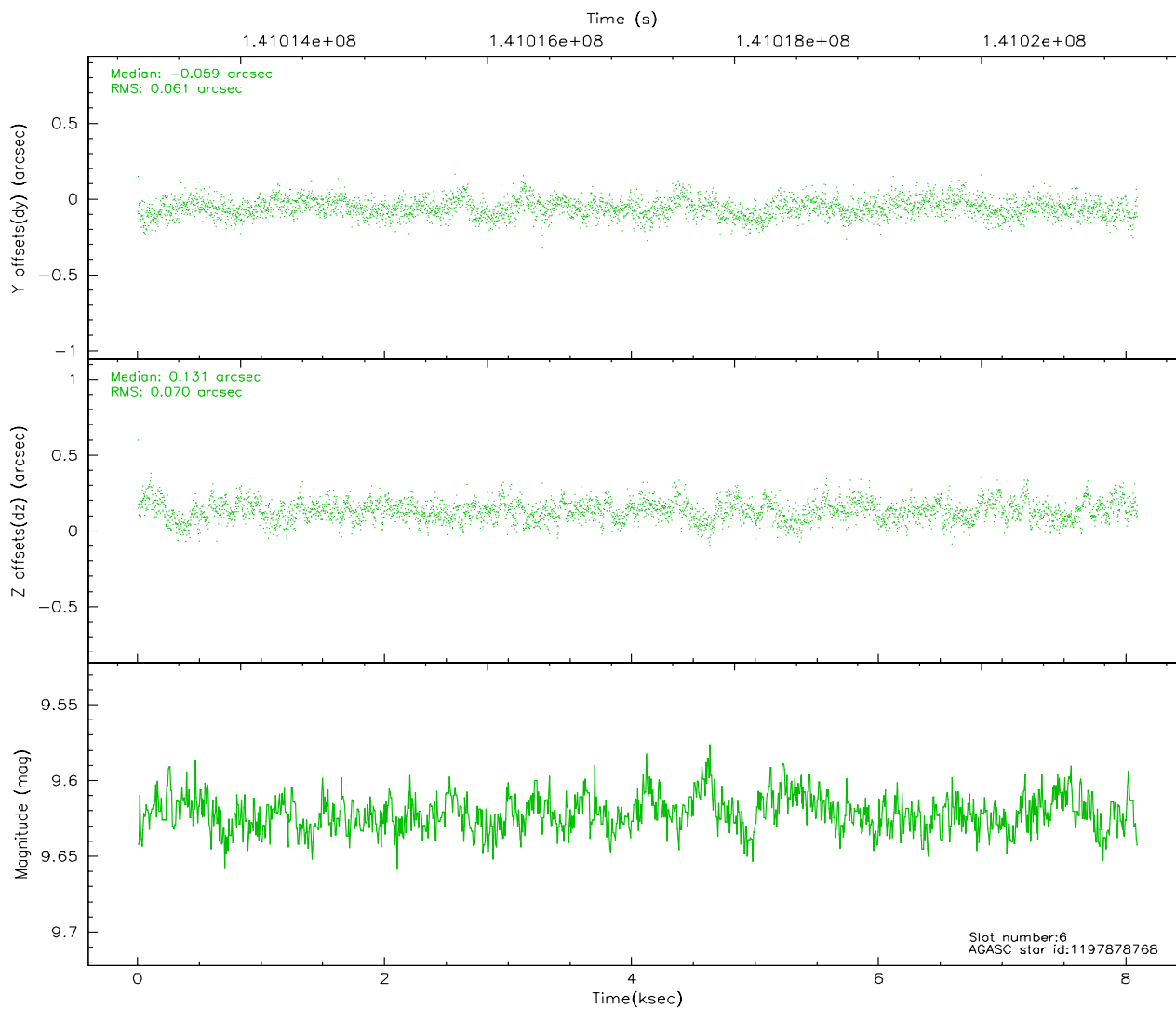
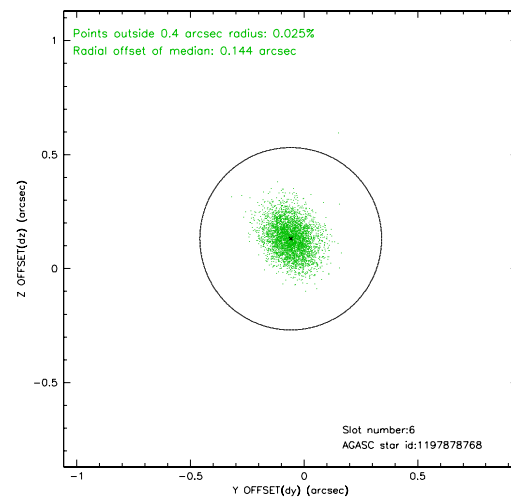
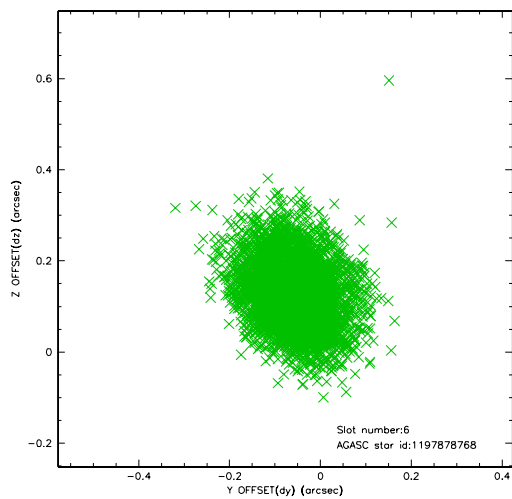
## 2.4.2 Slot 4



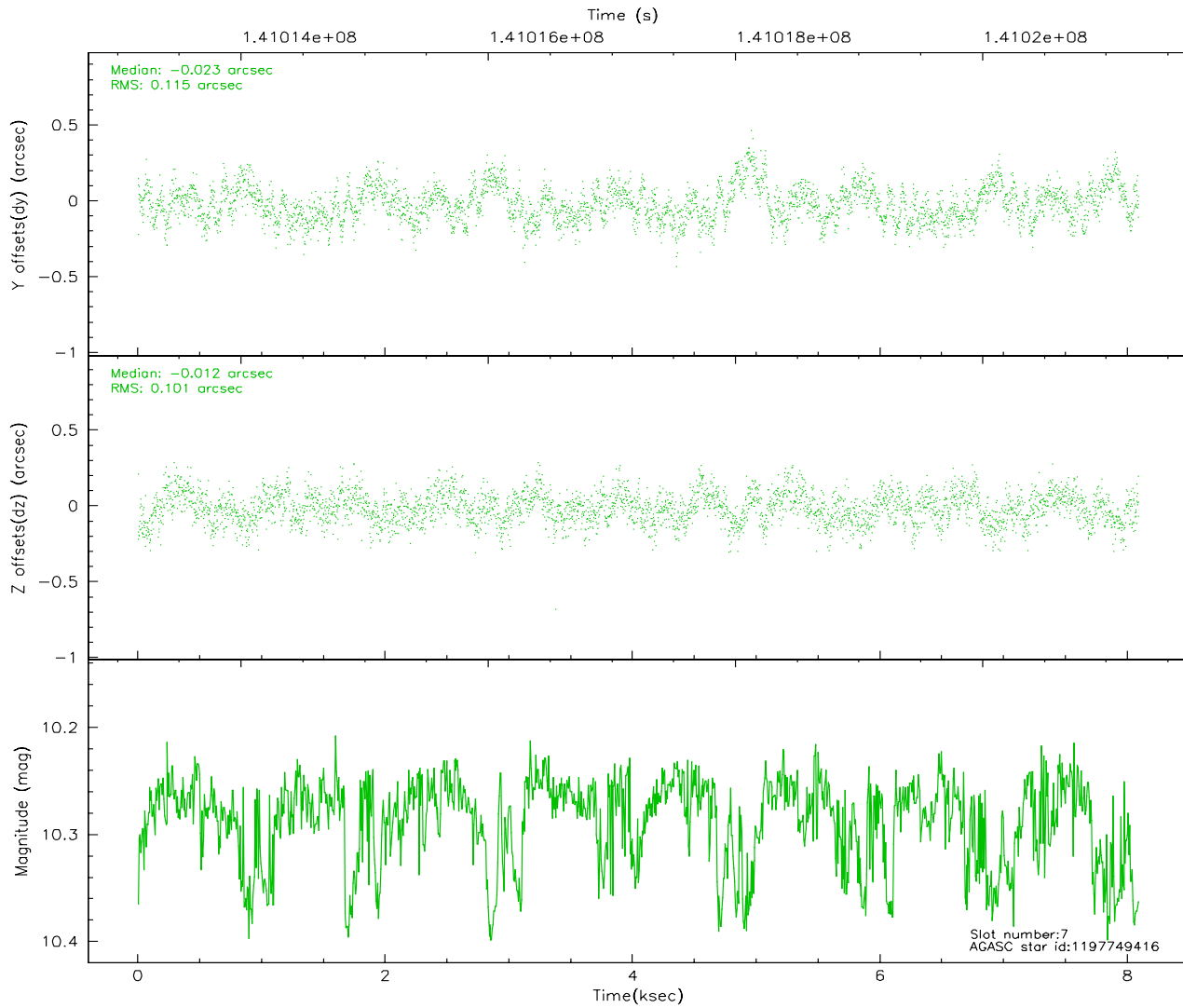
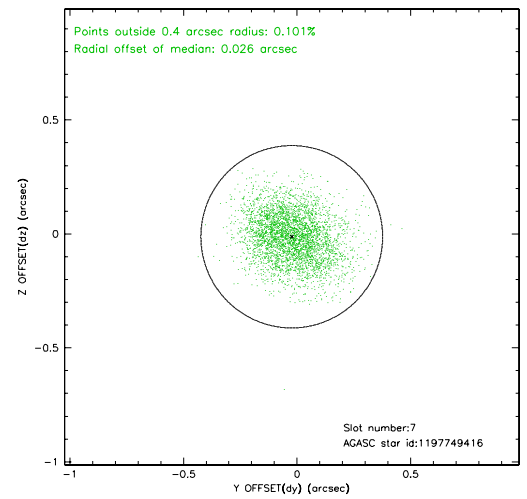
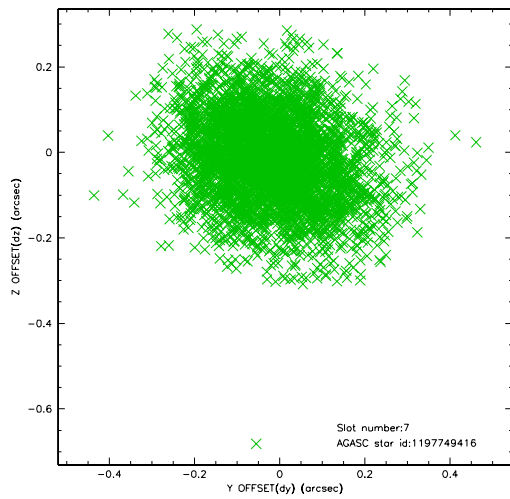
### 2.4.3 Slot 5



## 2.4.4 Slot 6

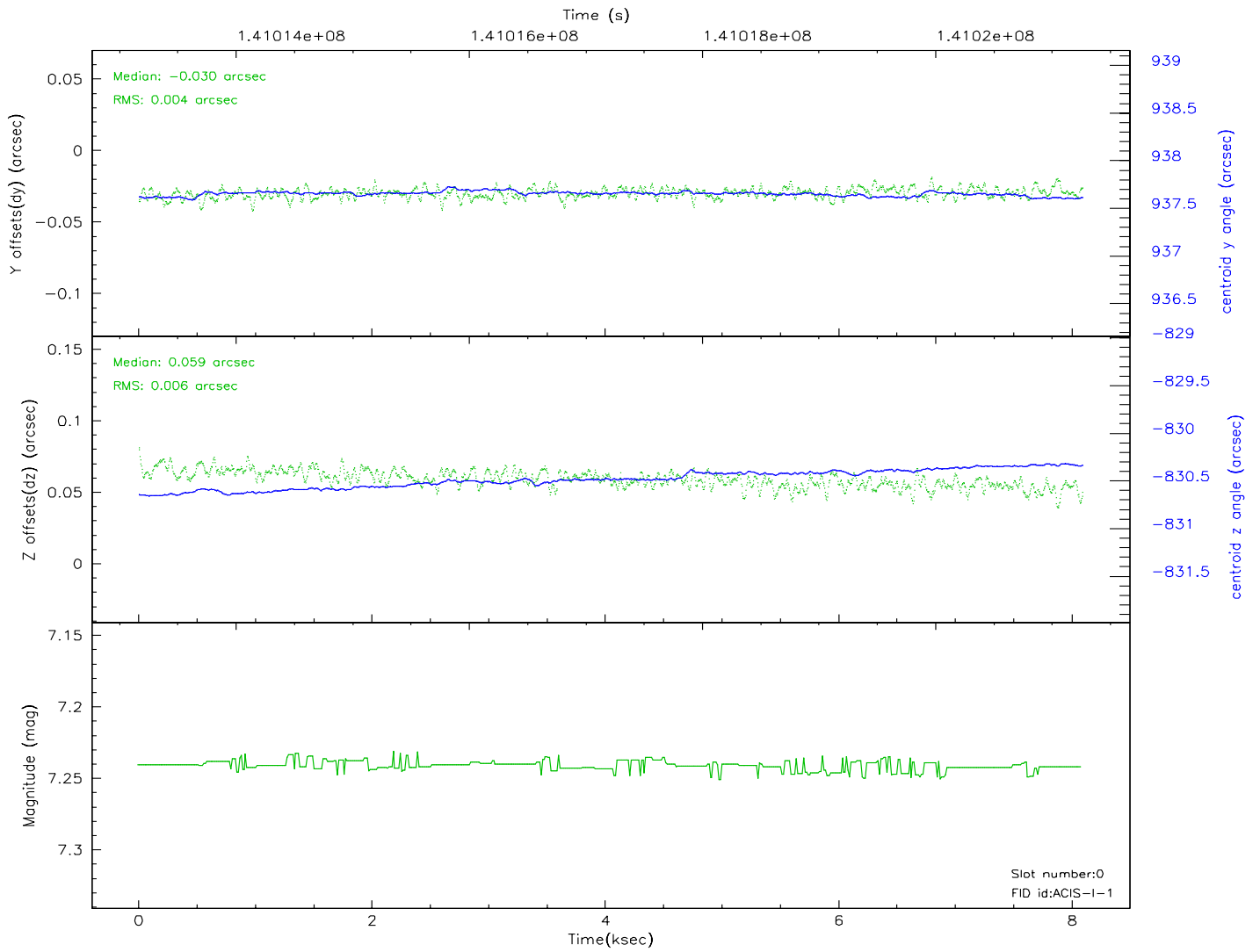
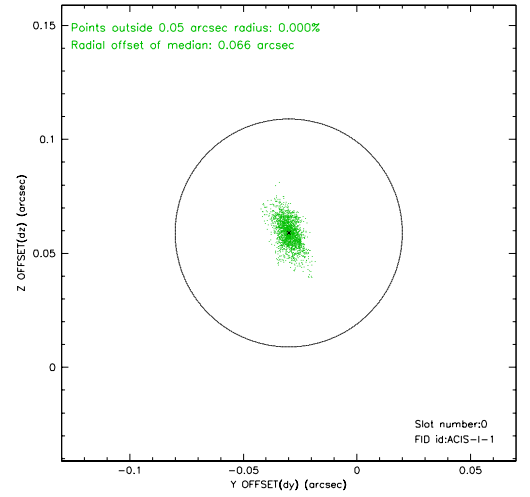
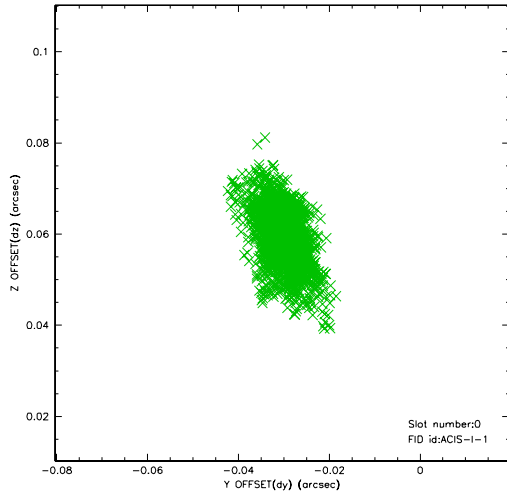


## 2.4.5 Slot 7

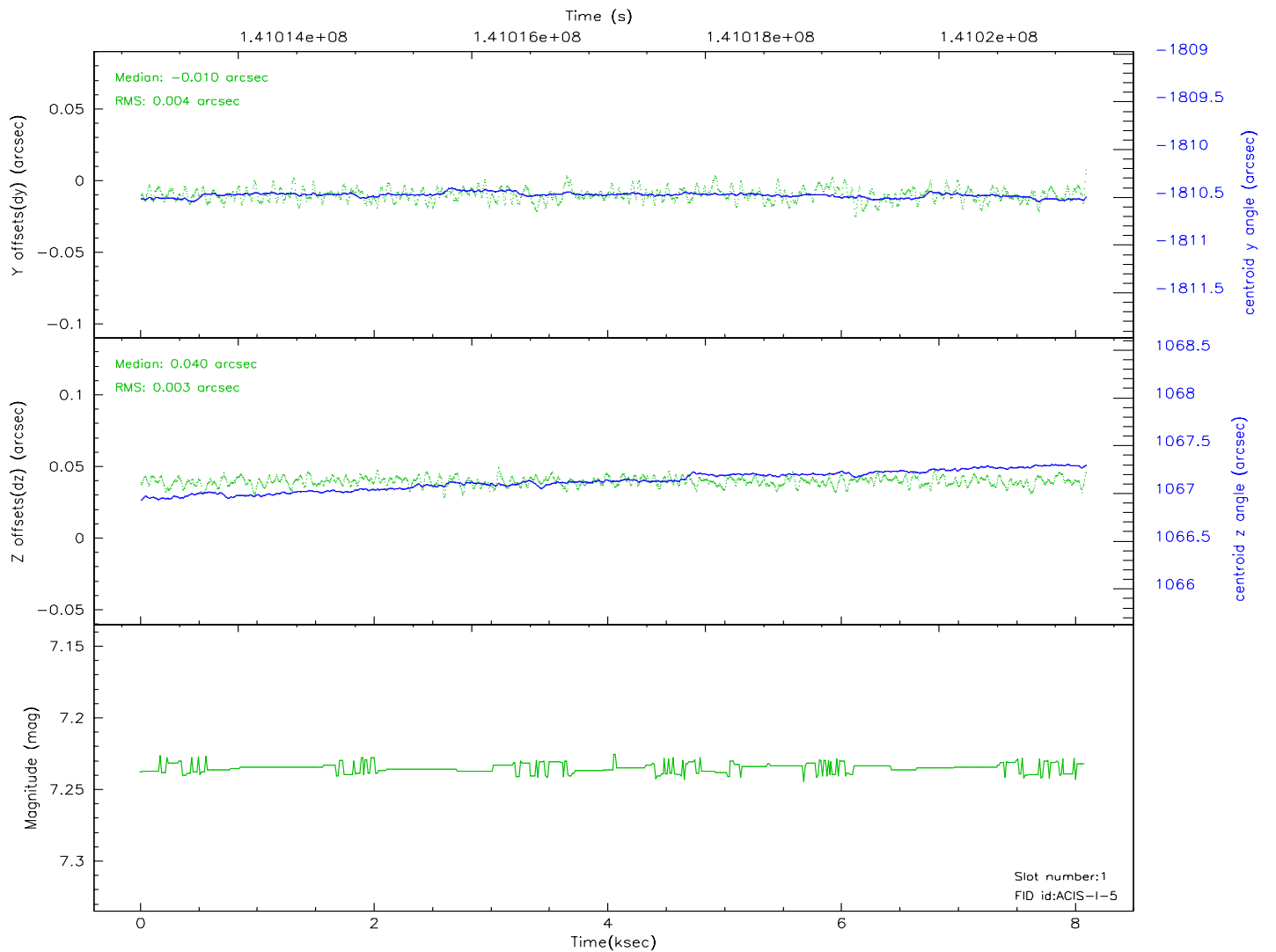
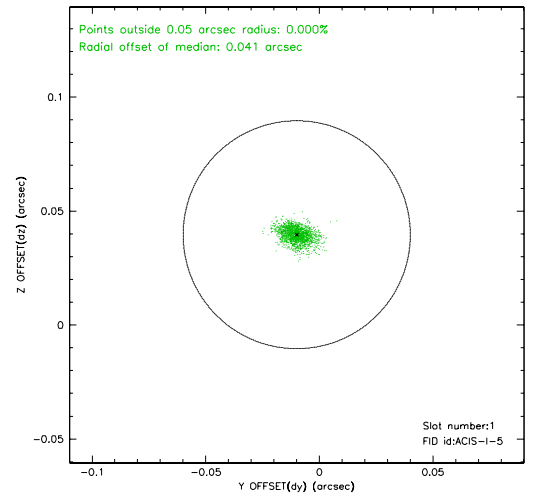
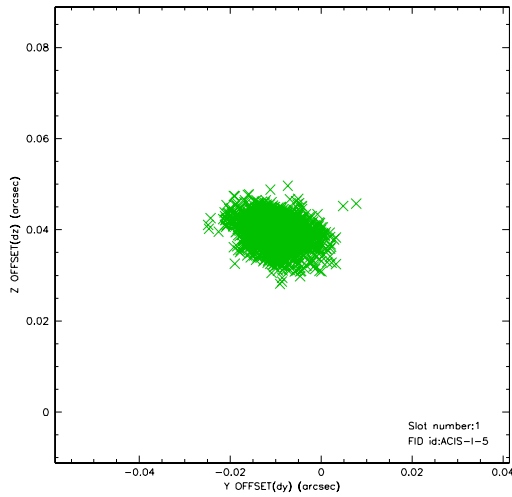


## 2.5 FID Slots

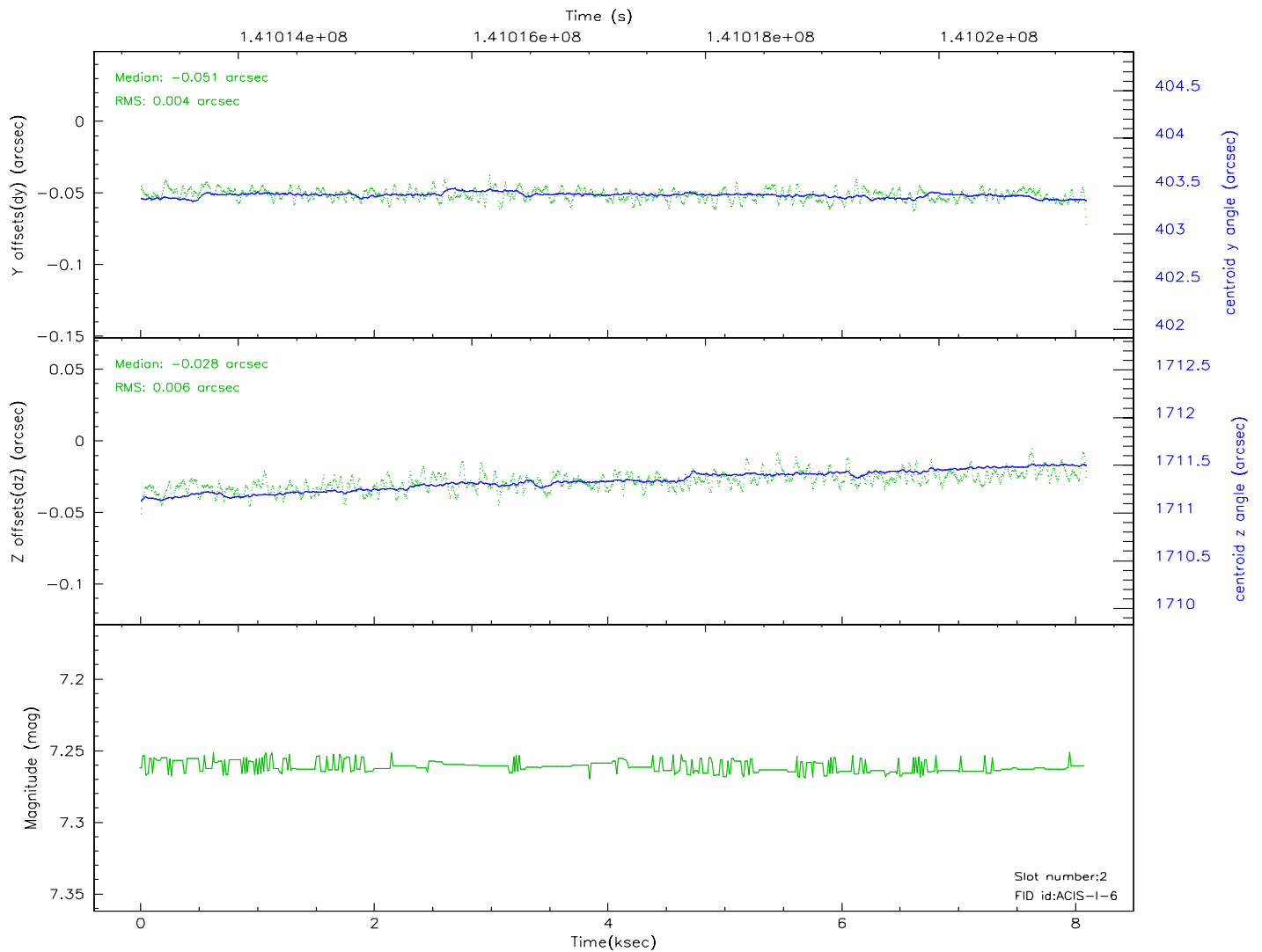
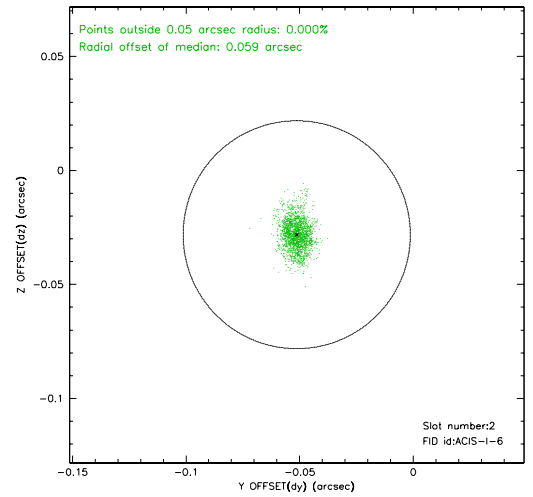
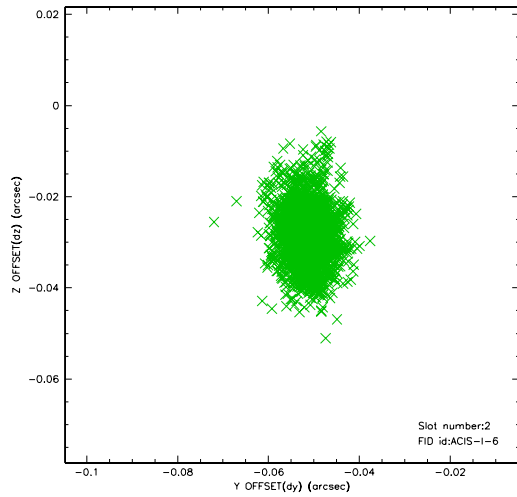
### 2.5.1 Slot 0



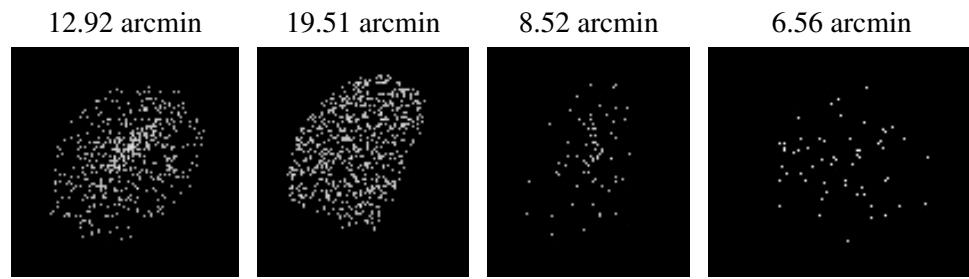
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.654

## A.2 Comments

Window constraint satisfied.