

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6422 - L2 Version 2  
Chandra X-Ray Center

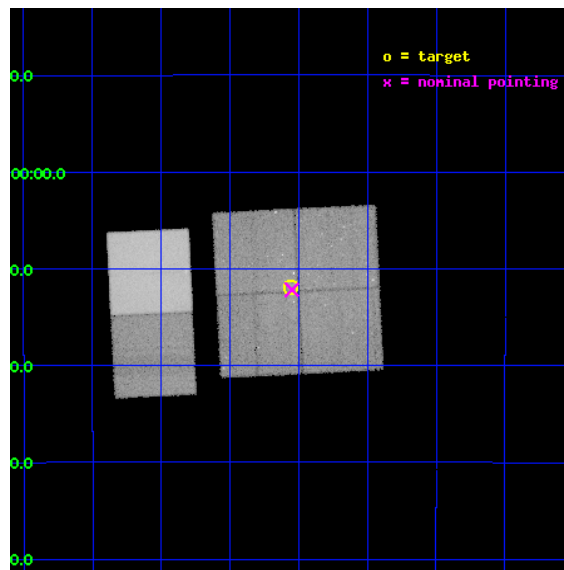
L2 Processing Date : Apr 7 2012

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# 1 Front

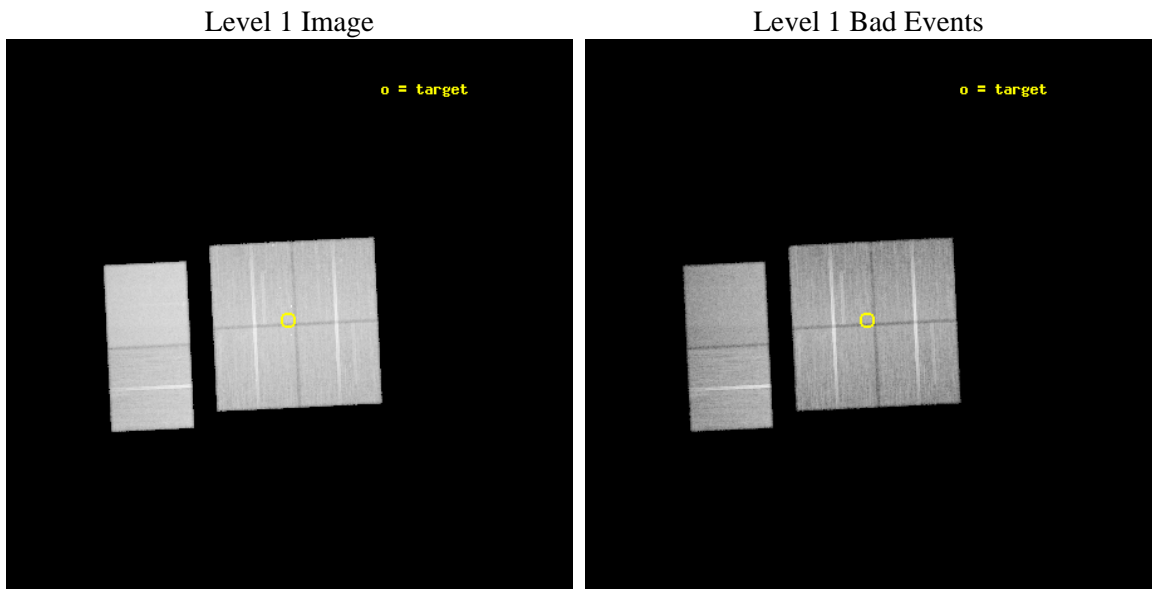
seq_num	200396	Sequence number
obs_id	6422	Observation id
title	Winds, OB Populations, and Young Stars: New Science from M17	Propo
observer	Dr. Leisa Townsley	Principal investigator
object	M17 Pointing II	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	275.389583	Observer's specified target RA [deg]
dec_targ	-16.198861	Observer's specified target Dec [deg]
ra_nom	275.3874855783	Nominal RA [deg]
dec_nom	-16.203067204199	Nominal Dec [deg]
roll_nom	267.2081019479	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34547.158871174	Sum of GTIs [s]
livetime	34109.701943745	Livetime [s]
ontime0	34543.917890847	Sum of GTIs [s]
ontime1	34543.918000281	Sum of GTIs [s]
ontime2	34550.399871349	Sum of GTIs [s]
ontime3	34547.158871174	Sum of GTIs [s]
ontime6	34543.917870879	Sum of GTIs [s]
ontime7	34550.399871349	Sum of GTIs [s]
l2events	402833	Number of level 2 events



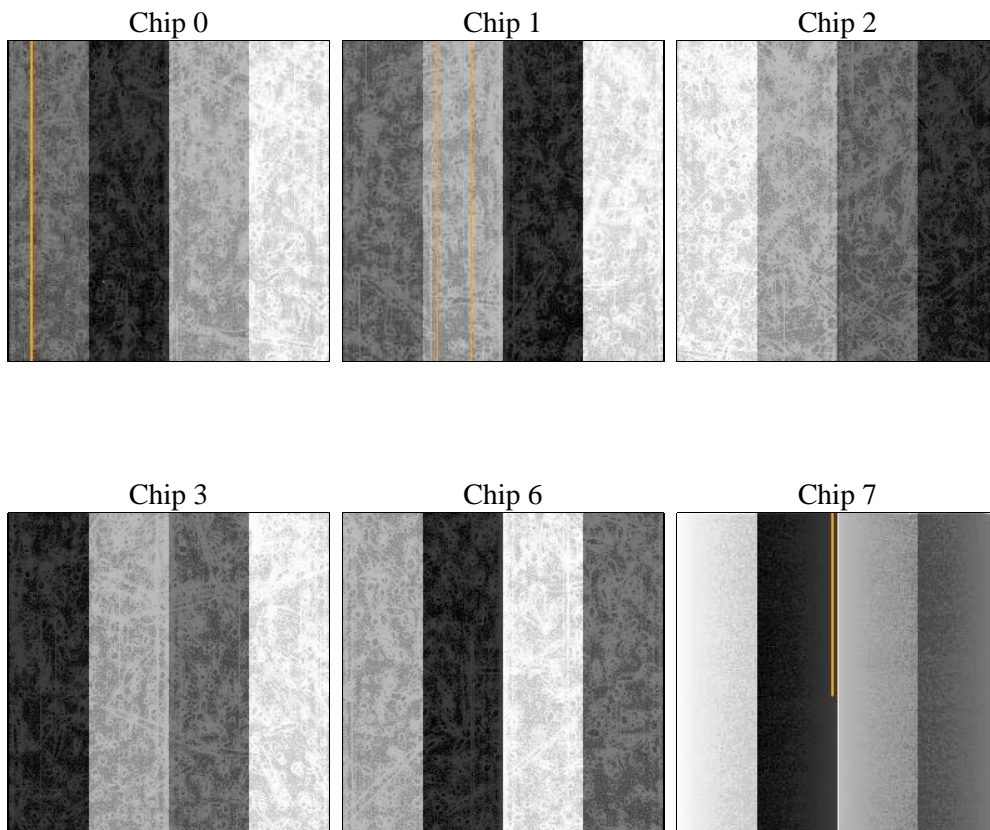
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34469.665000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	34547.158871174	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	34543.917890847	Sum of GTIs [s]
date	2012-04-08T00:52:31	Date and time of file creation	ontime1	34543.918000281	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	34550.399871349	Sum of GTIs [s]
			ontime3	34547.158871174	Sum of GTIs [s]
			ontime6	34543.917870879	Sum of GTIs [s]
			ontime7	34550.399871349	Sum of GTIs [s]
			l1events	1929110	Number of level 1 events

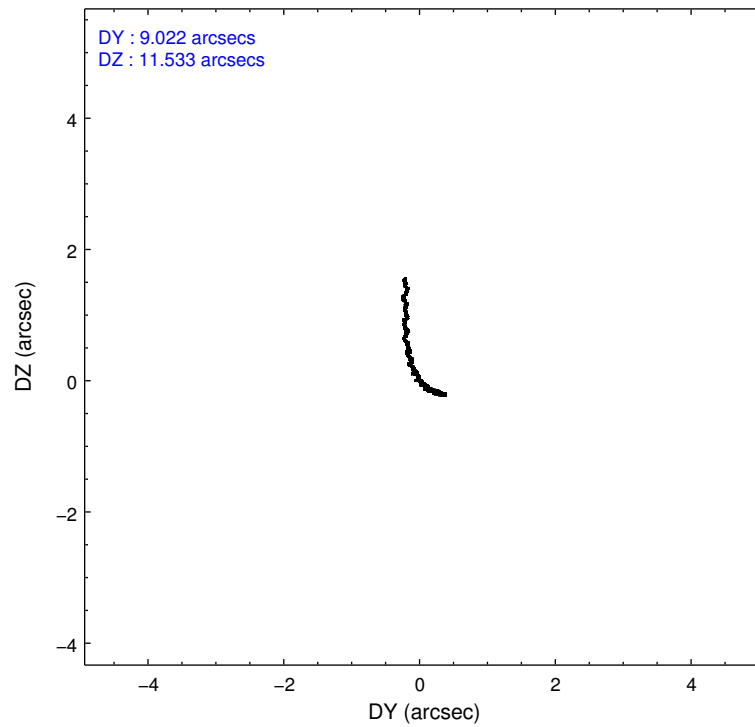
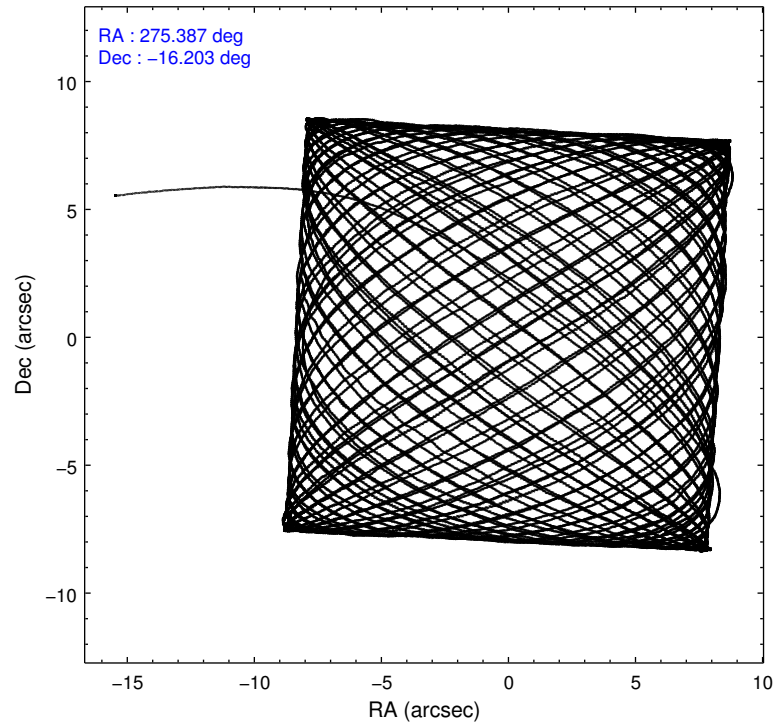
### 2.1.4 Events

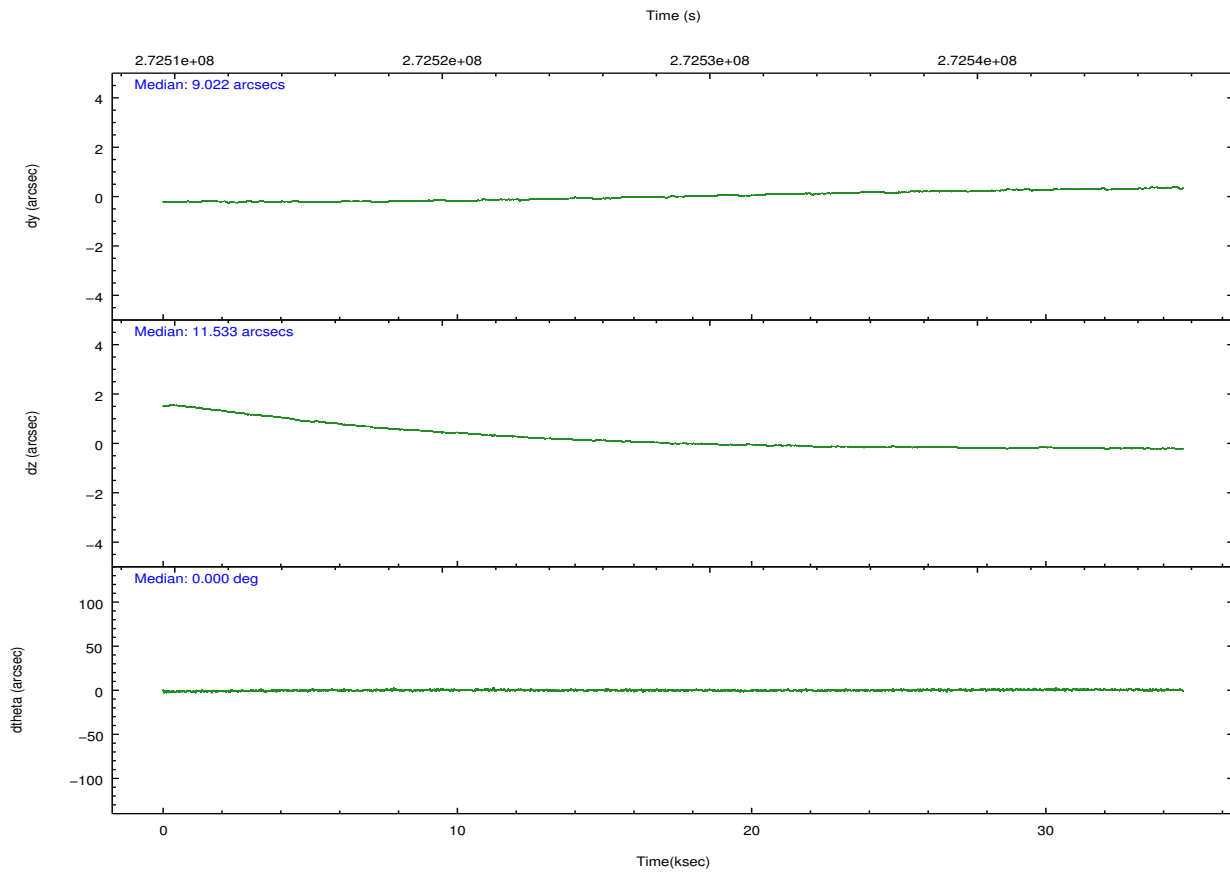
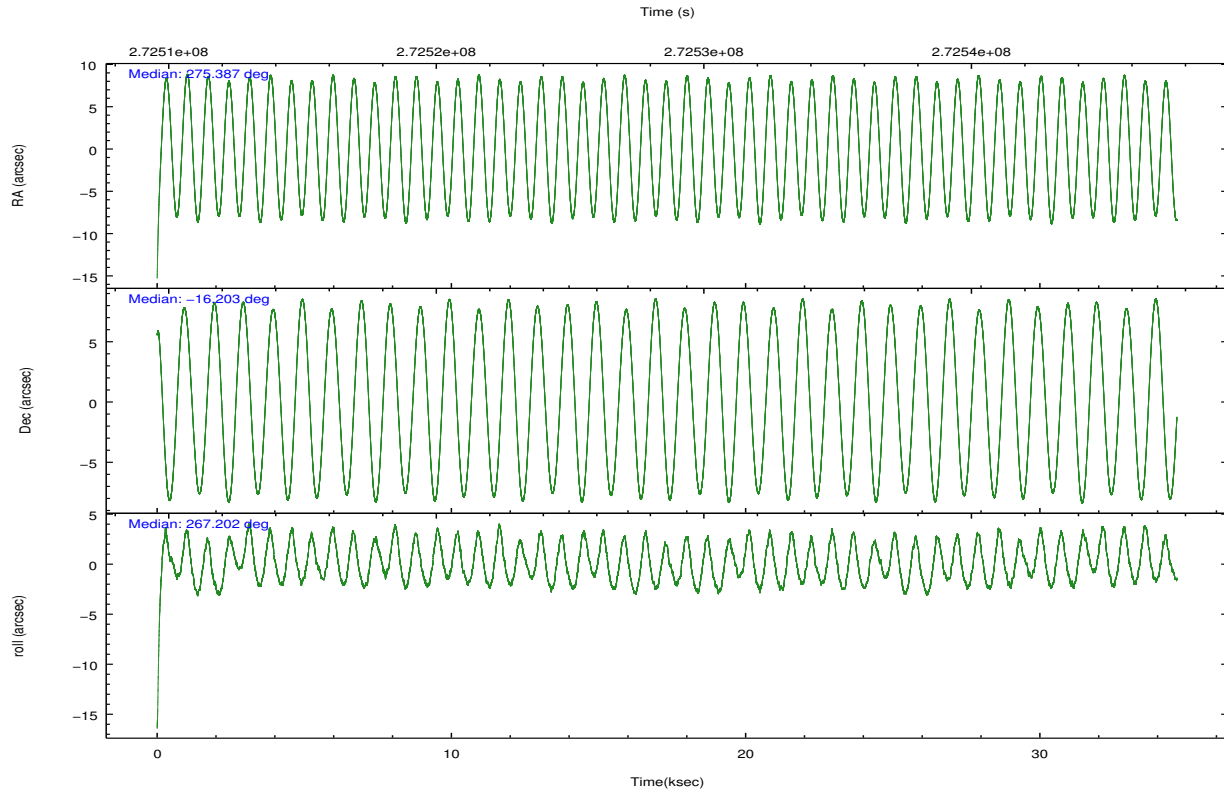
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	286046	291041	308759	302985	314563	425716	grade 0 events	25974	27715	25747	26032	21786	17228
rejected events	236714	236840	261027	254479	268186	236669		9%	9%	8%	8%	6%	4%
rejected %	82%	81%	84%	83%	85%	55%	grade 1 events	243	207	246	261	197	421
								0%	0%	0%	0%	0%	0%
							grade 2 events	9265	10464	8516	8342	9336	37037
								3%	3%	2%	2%	2%	8%
							grade 3 events	3836	4145	3600	3820	3686	15993
								1%	1%	1%	1%	1%	3%
							grade 4 events	3561	4006	3673	3756	3591	16104
								1%	1%	1%	1%	1%	3%
							grade 5 events	11715	12905	11254	13342	13933	38326
								4%	4%	3%	4%	4%	9%
							grade 6 events	6711	7887	6222	6573	7983	102719
								2%	2%	2%	2%	2%	24%
							grade 7 events	224741	223712	249501	240859	254051	197888
								78%	76%	80%	79%	80%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	275.374342	275.387485578304	Subarray requested	NONE	NONE
[deg] Pointing Dec	-16.178739	-16.20306720419946	Alternating exposures requested	N	N
[deg] Pointing Roll	266.995757	267.208101947905	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	272511483.184000	272510458.20083			
Observation start date	2006-08-21T01:36:58	2006-08-21T01:20:58			
[s] Observation end time (MET)	272545953.184000	272546186.11501			
Observation end date	2006-08-21T11:11:28	2006-08-21T11:16:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect



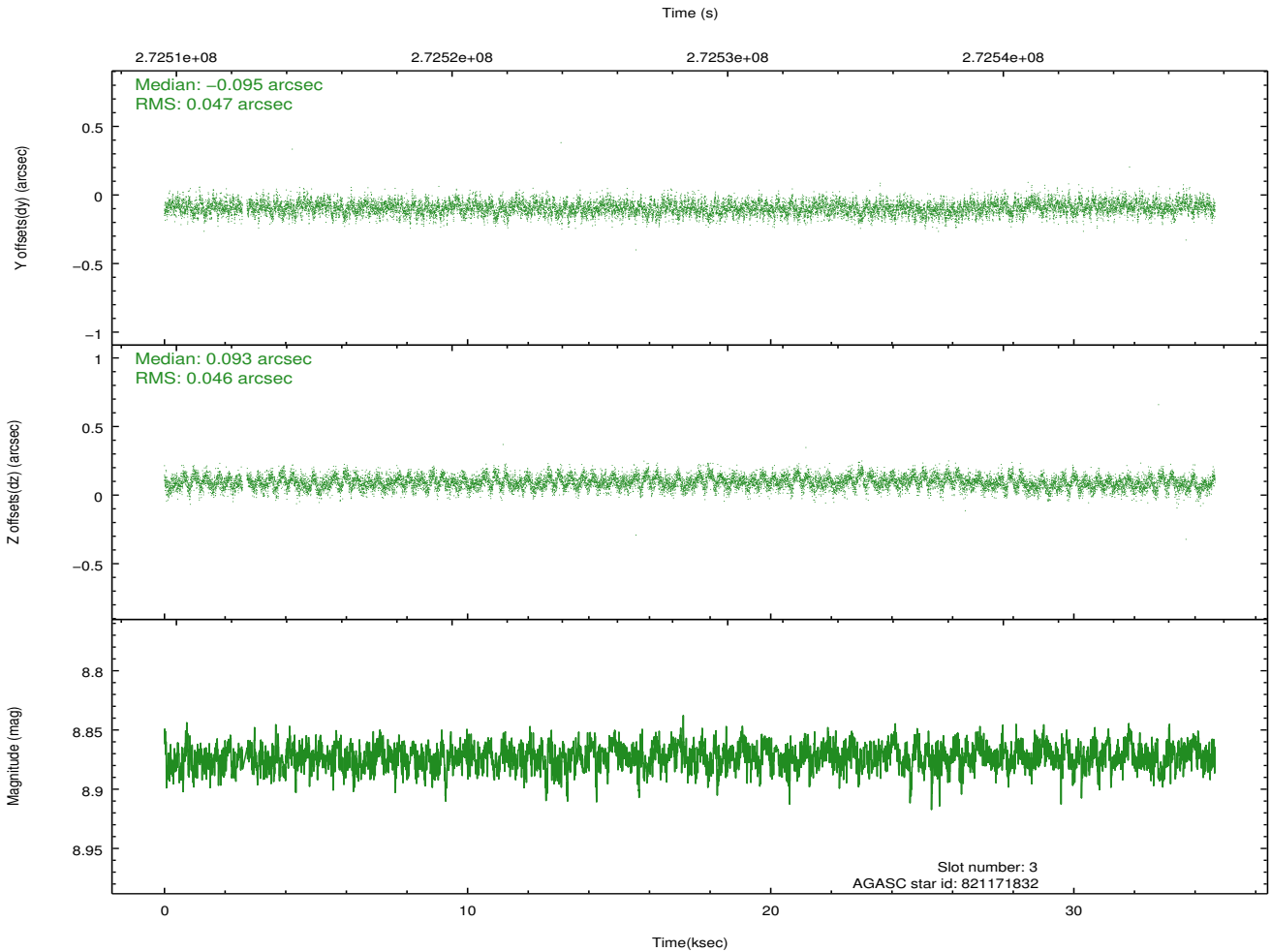
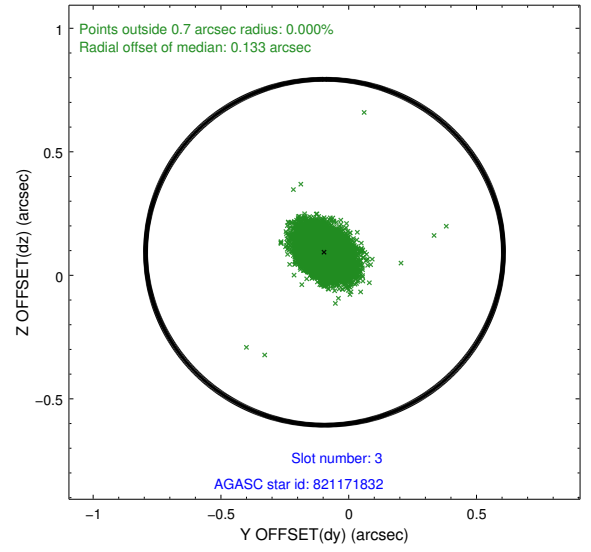
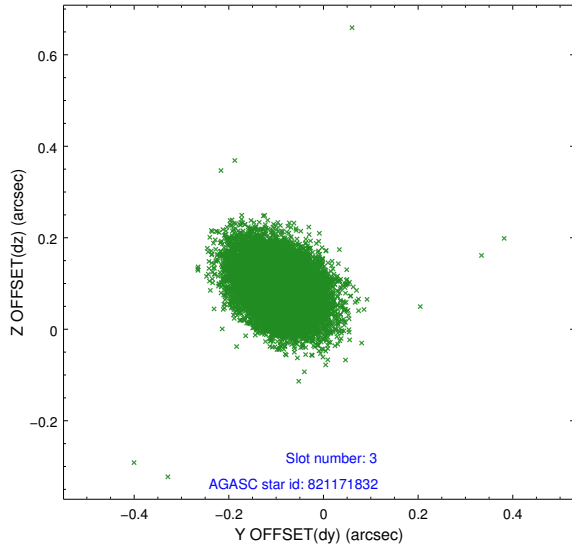


### Slot Statistics

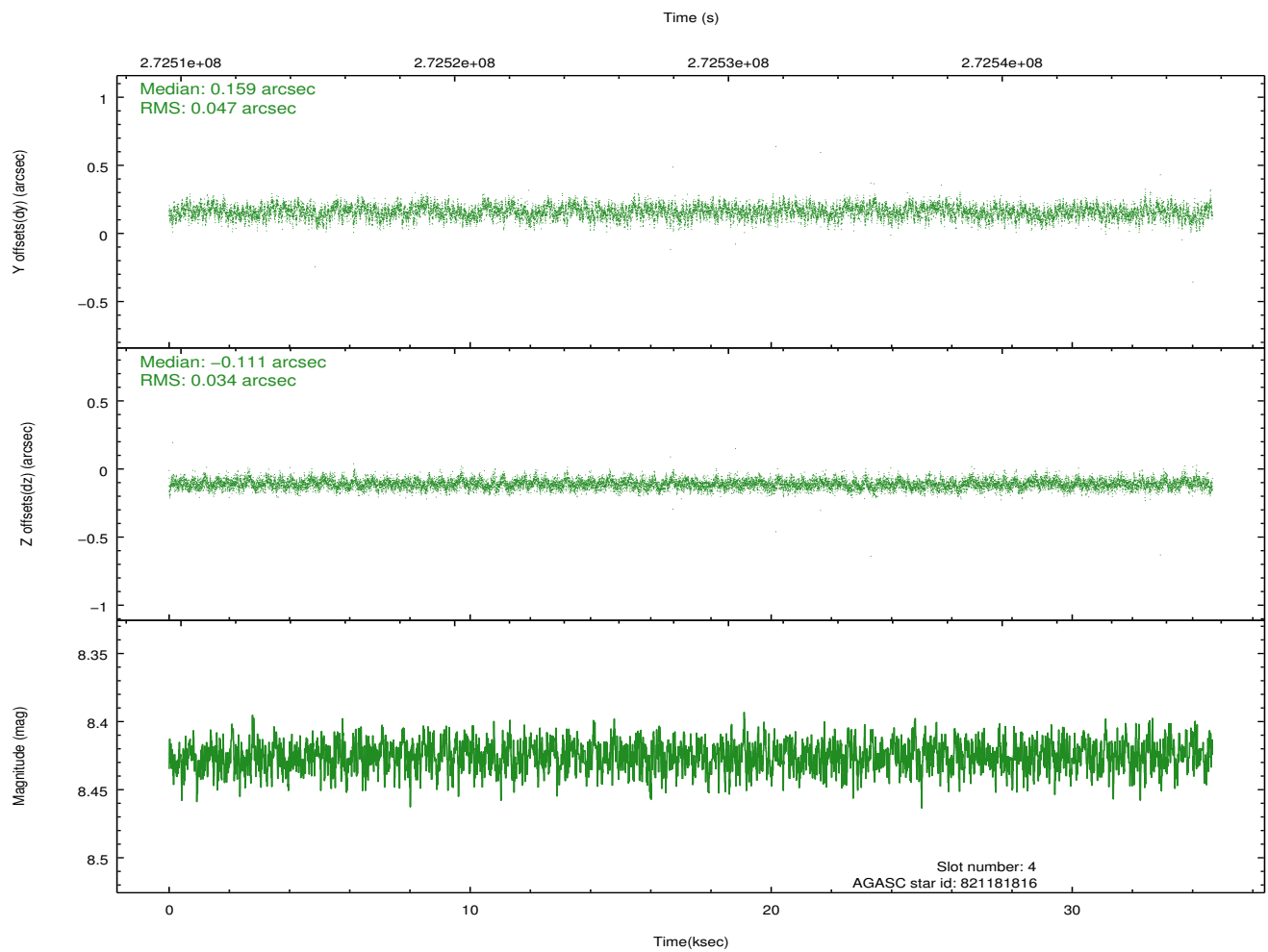
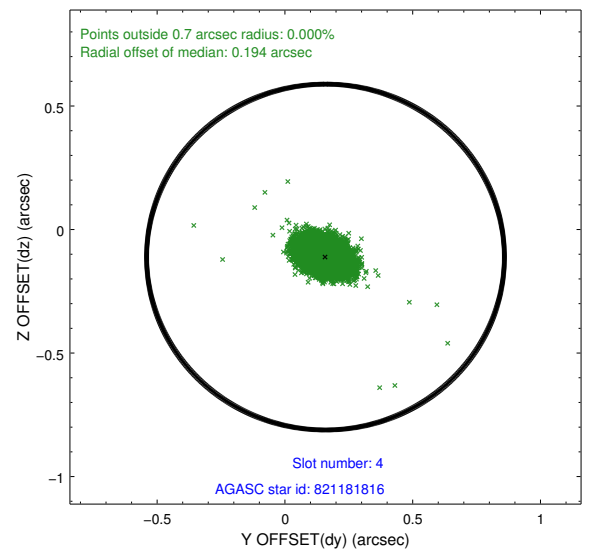
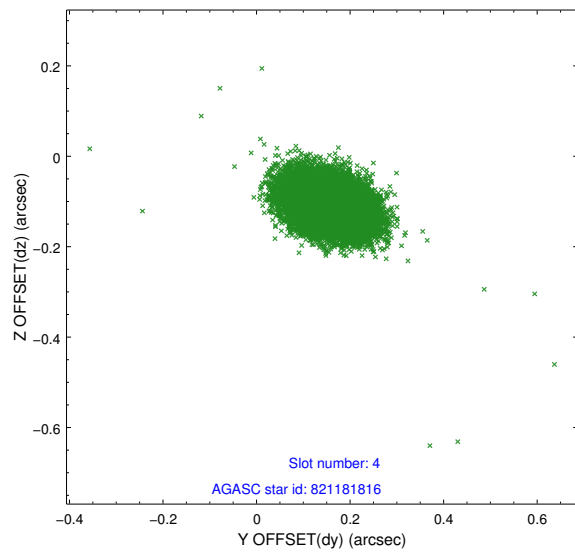
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	8453	-0.016	-0.107	0.015	0.025	0.000000	0.000000	-763.64	-841.73
1	FID	ACIS-I-5	7.23	8454	-0.166	0.073	0.011	0.018	0.000000	0.000000	-1817.83	1062.31
2	FID	ACIS-I-6	7.24	8453	0.088	0.103	0.016	0.024	0.000000	0.000000	396.23	1706.82
3	GUIDE	821171832	8.87	16827	-0.095	0.093	0.069	0.114	275.792275	-15.610164	-2118.50	1340.02
4	GUIDE	821181816	8.43	16899	0.159	-0.111	0.060	0.100	274.847938	-16.750455	2153.35	-1703.86
5	GUIDE	821186736	7.96	16904	0.137	0.004	0.066	0.107	274.765126	-16.656680	1832.31	-2007.70
6	GUIDE	821179256	7.38	16906	-0.215	-0.064	0.048	0.076	274.840900	-15.612800	-1934.94	-1953.90
7	GUIDE	821169272	7.21	16904	0.015	0.079	0.044	0.072	275.312025	-16.375484	718.84	-177.58

## 2.4 Star Slots

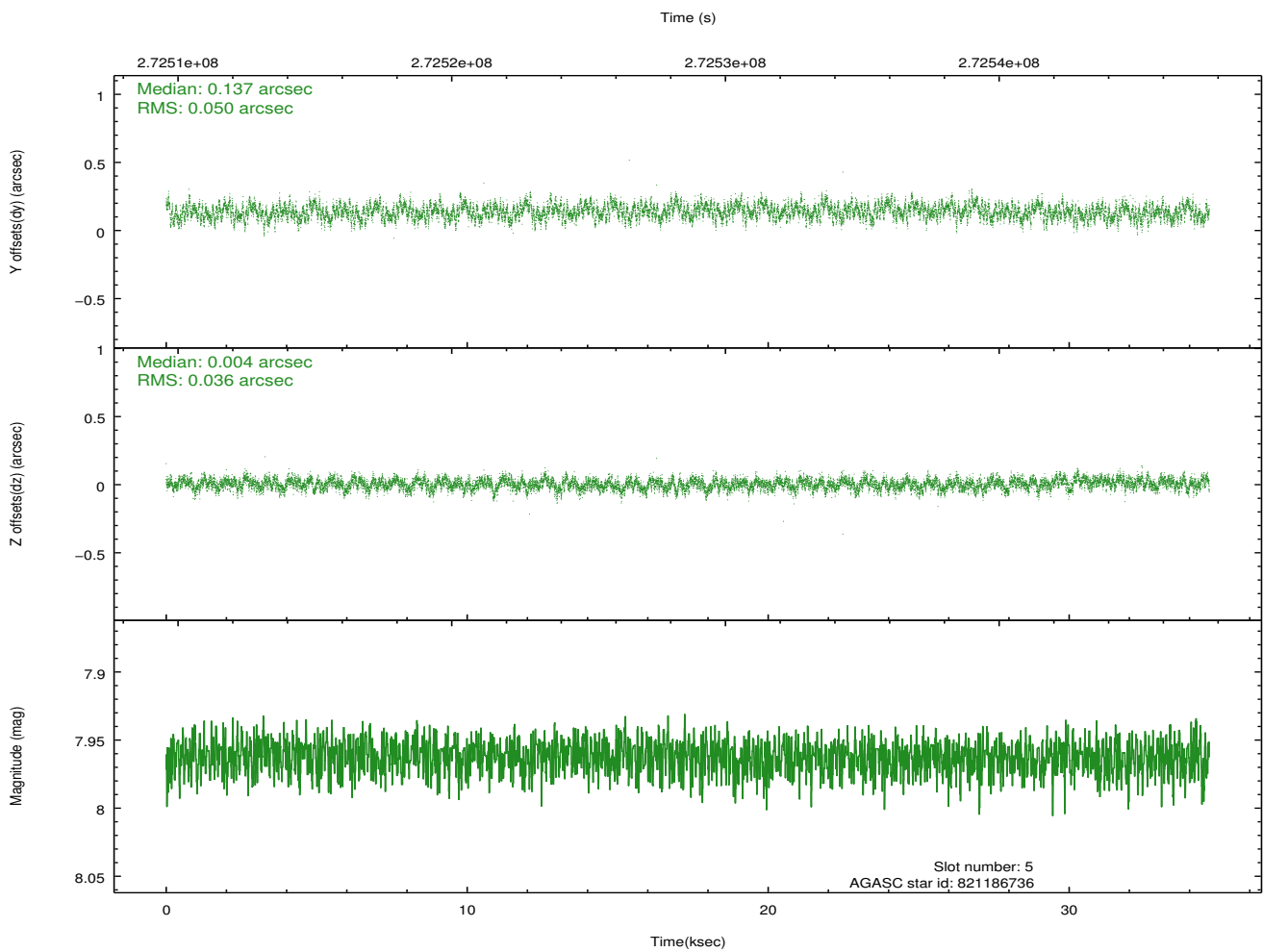
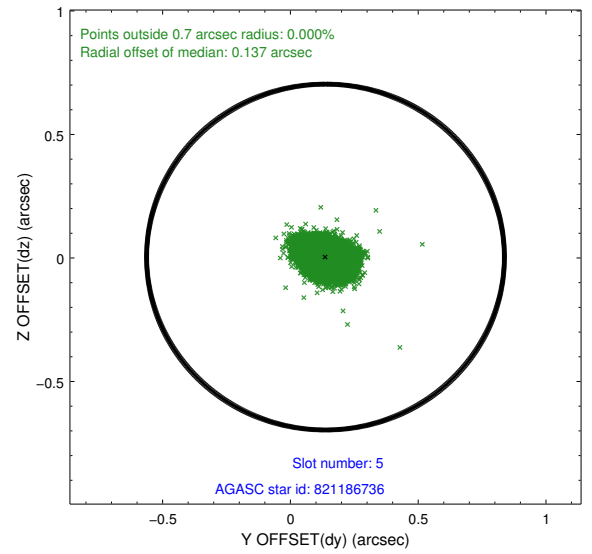
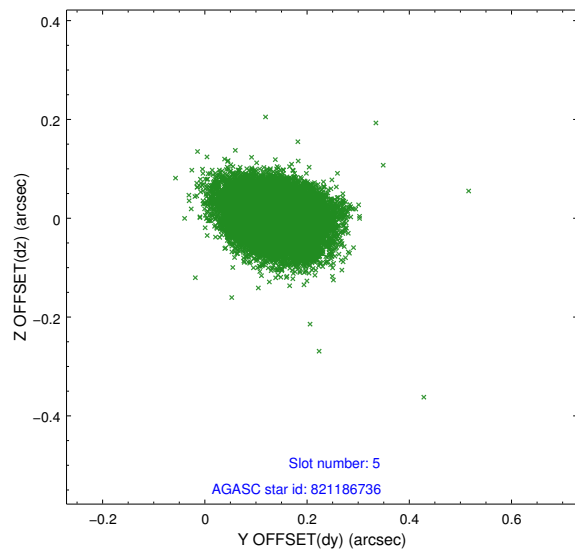
### 2.4.1 Slot 3



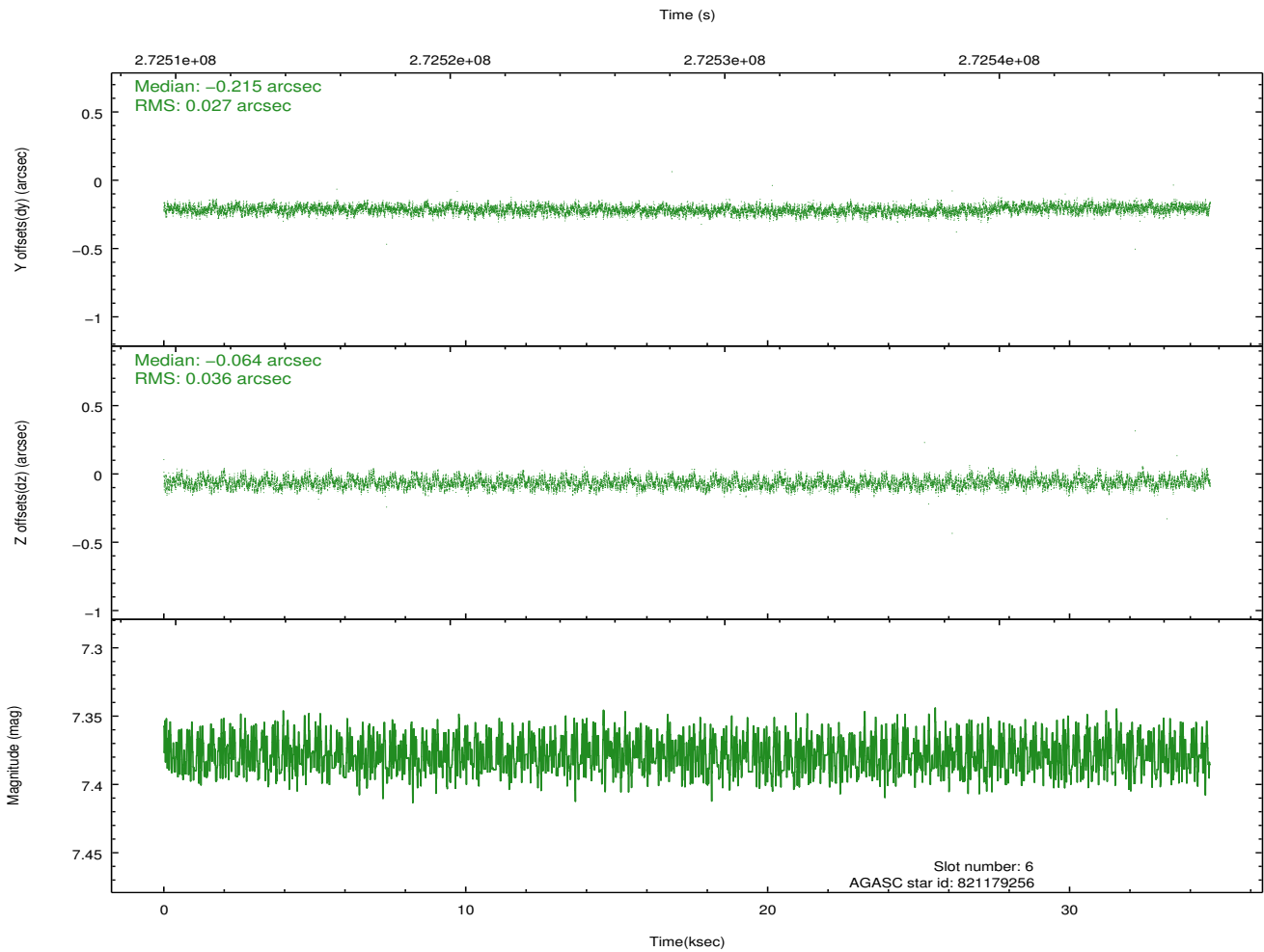
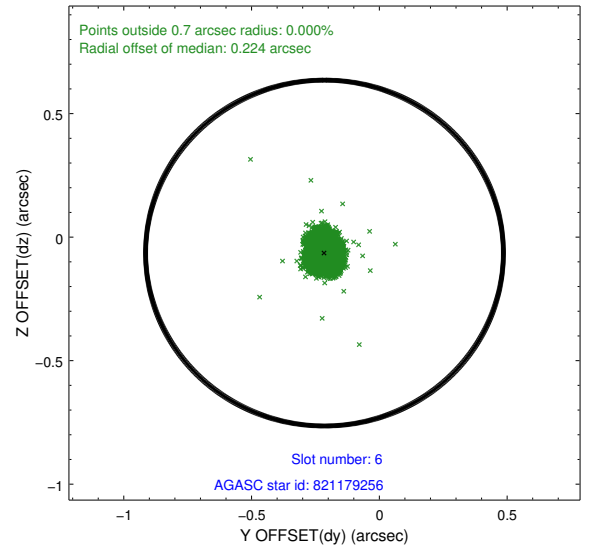
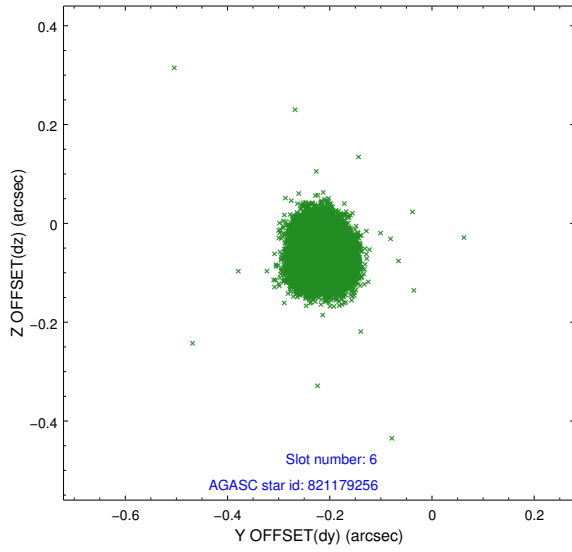
## 2.4.2 Slot 4



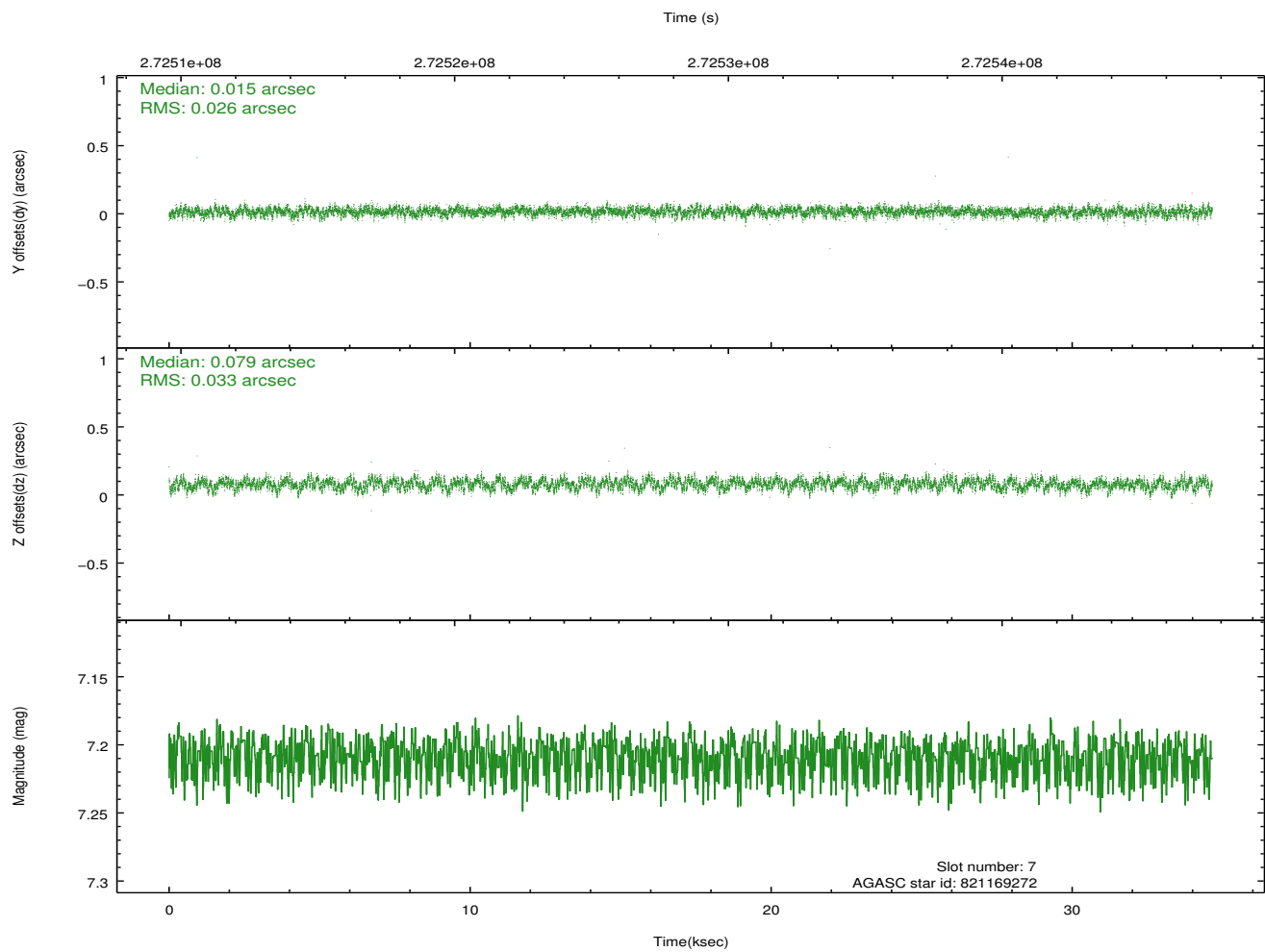
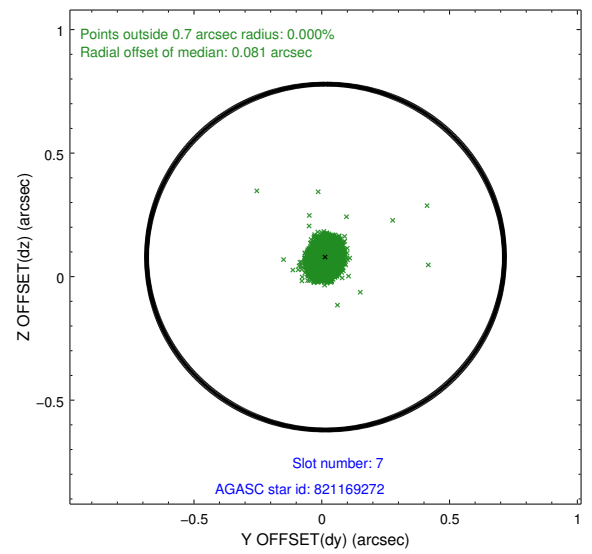
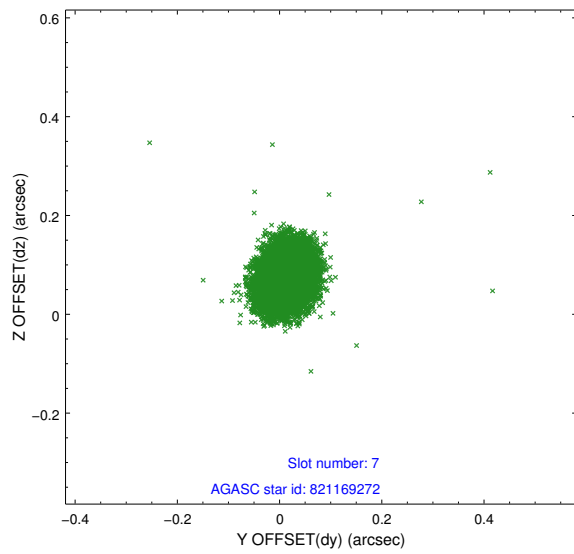
### 2.4.3 Slot 5



### 2.4.4 Slot 6

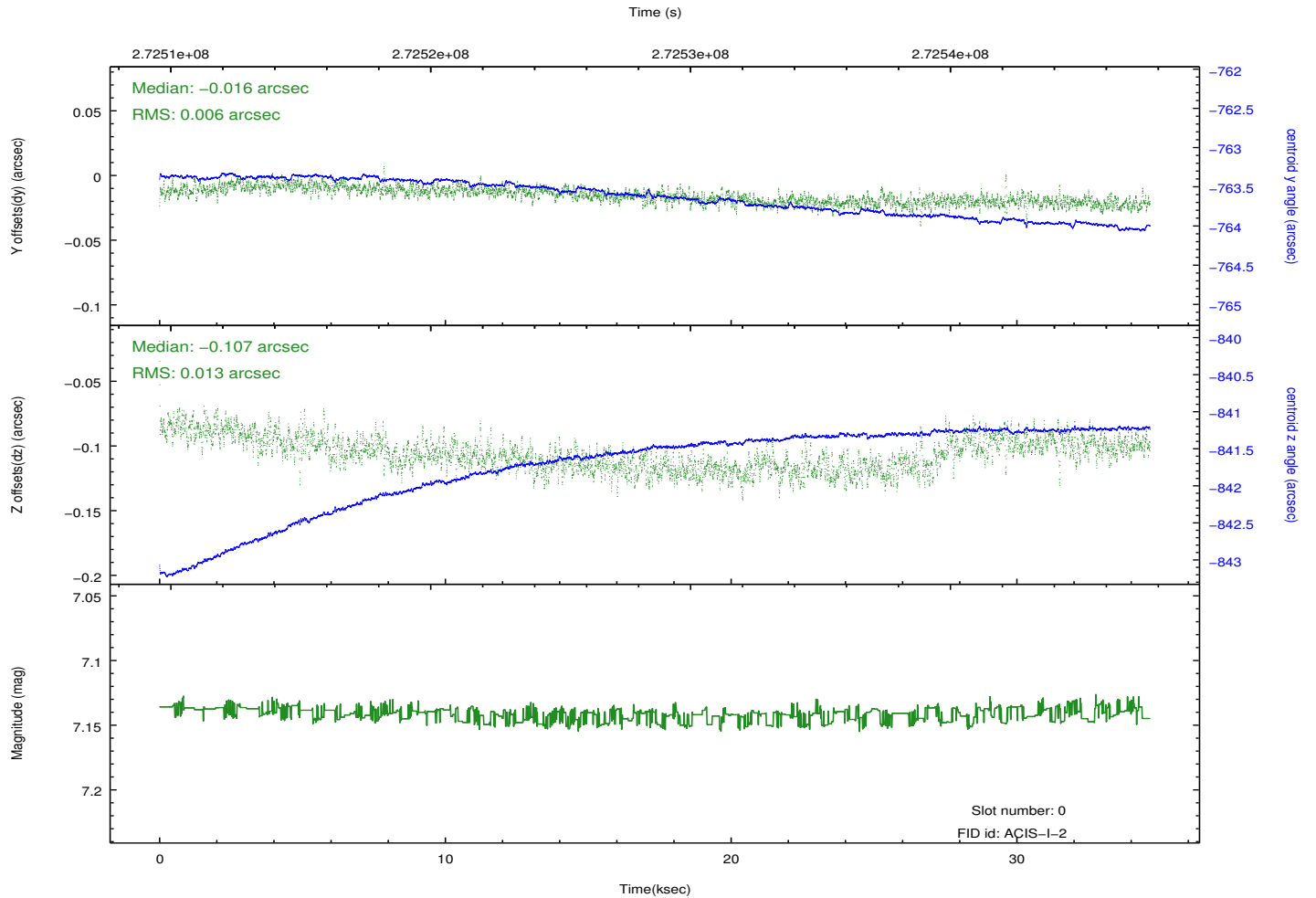
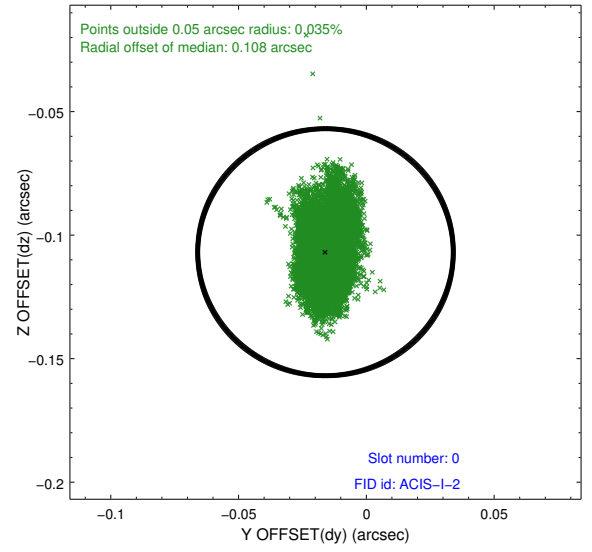
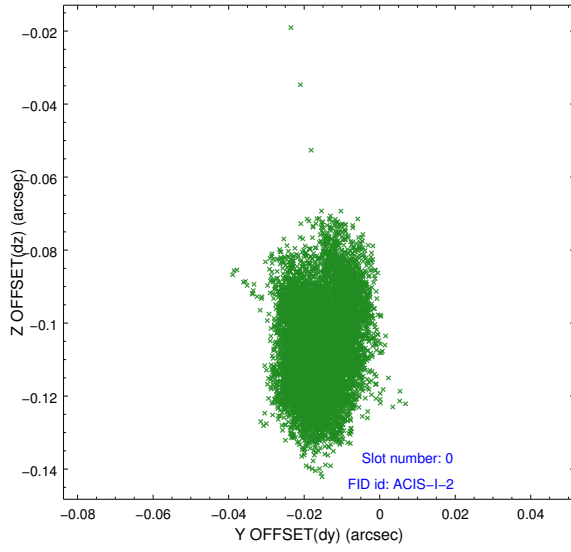


### 2.4.5 Slot 7

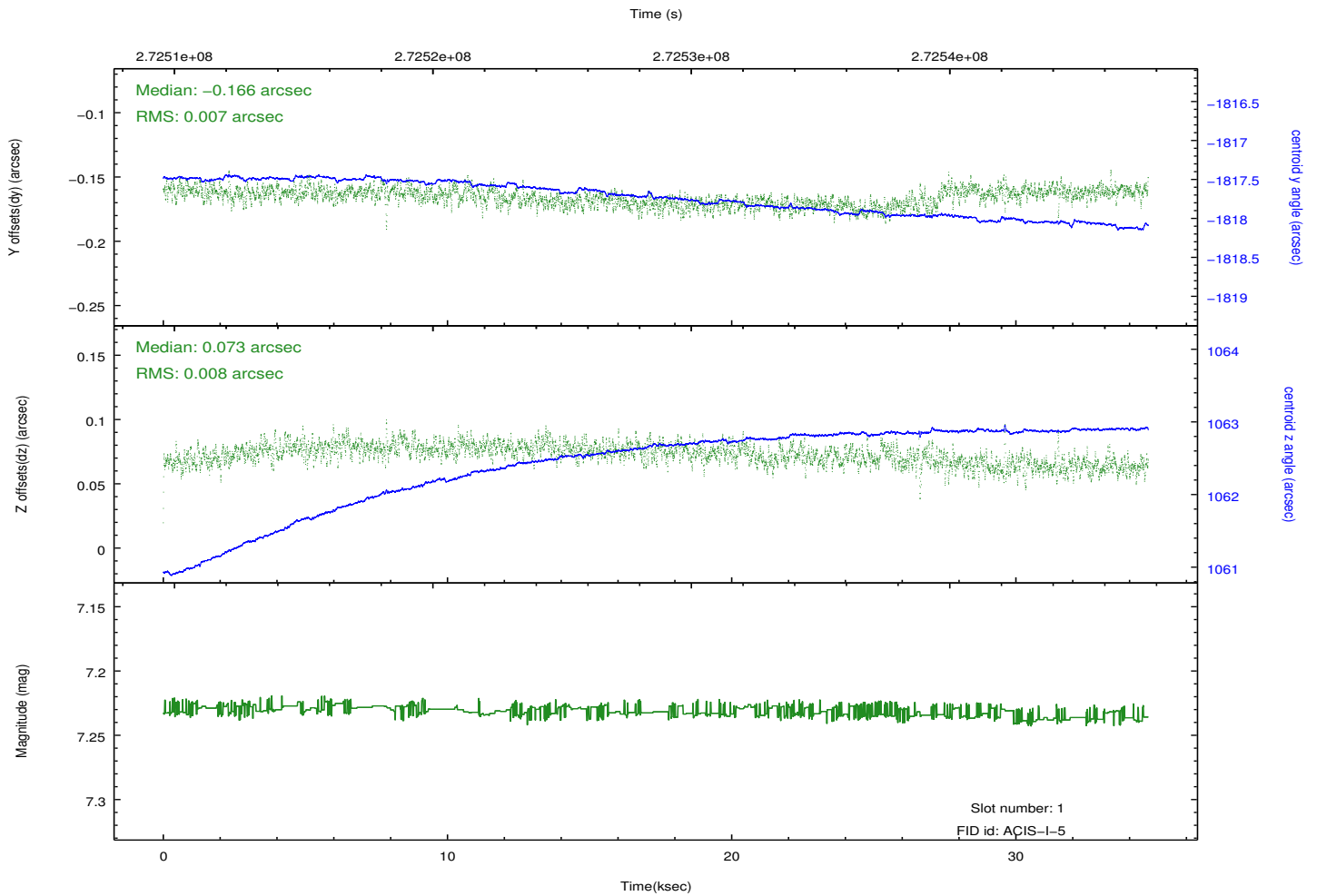
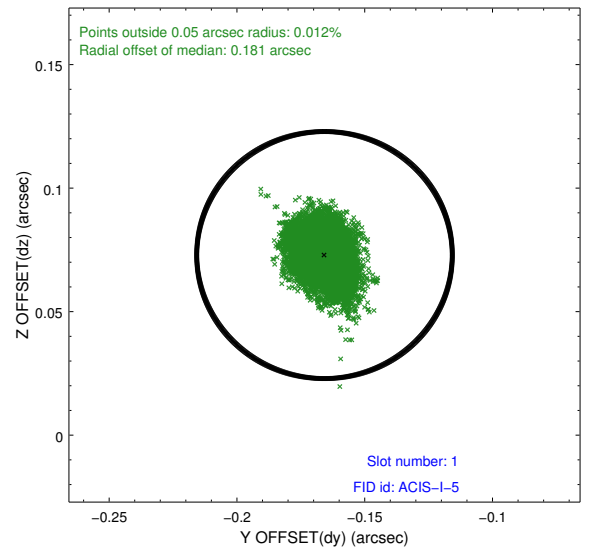
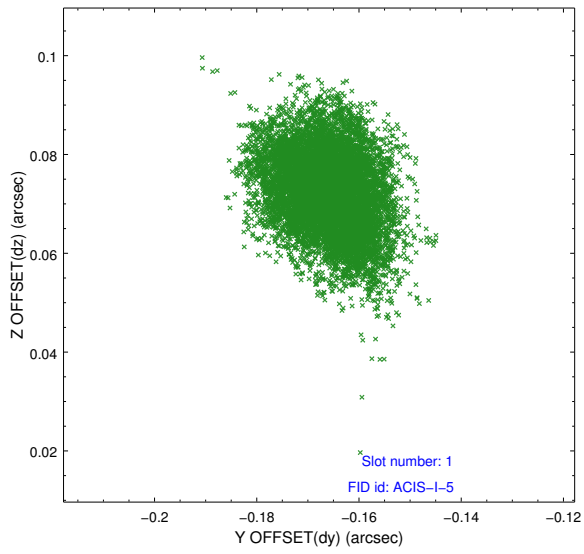


## 2.5 FID Slots

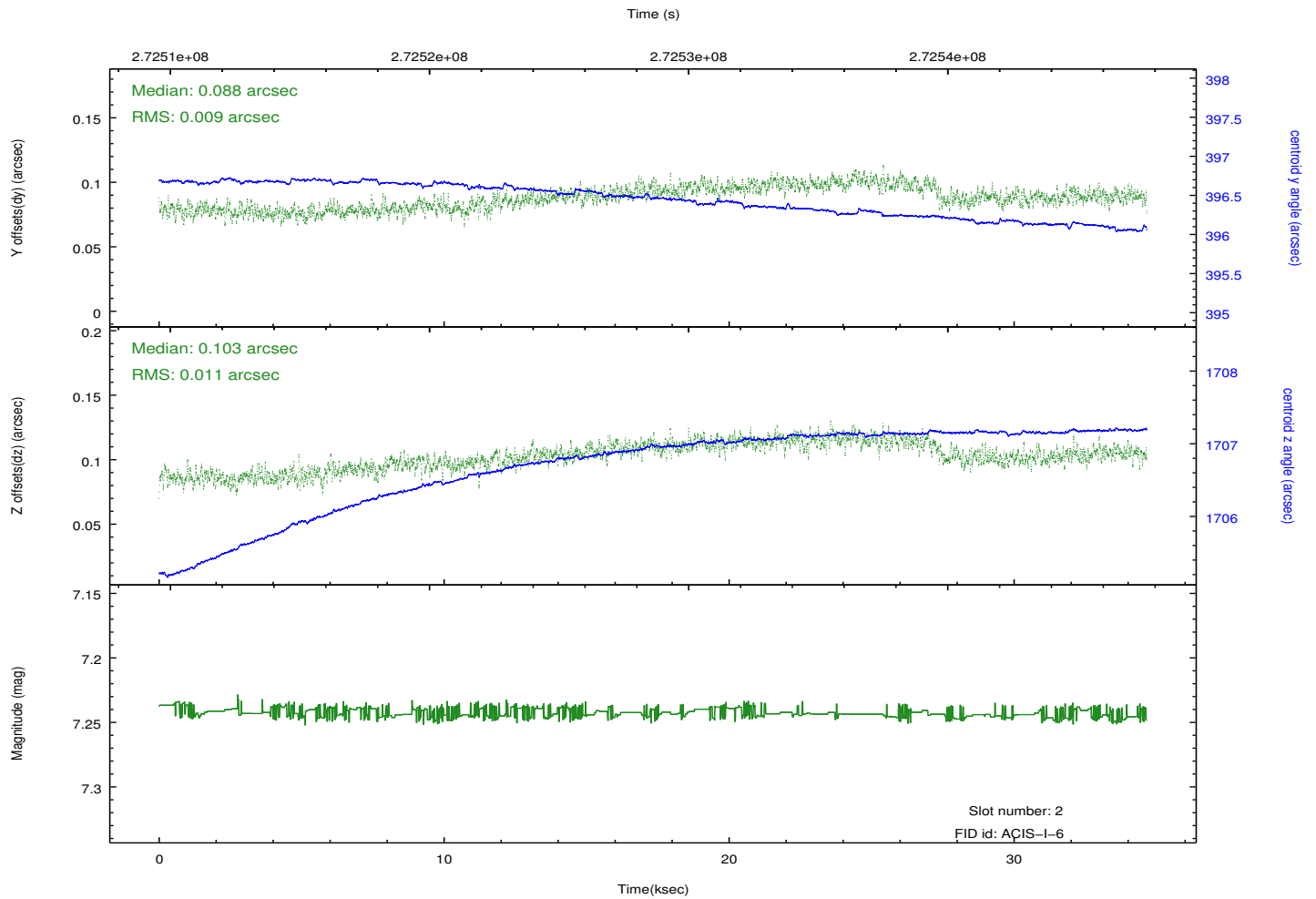
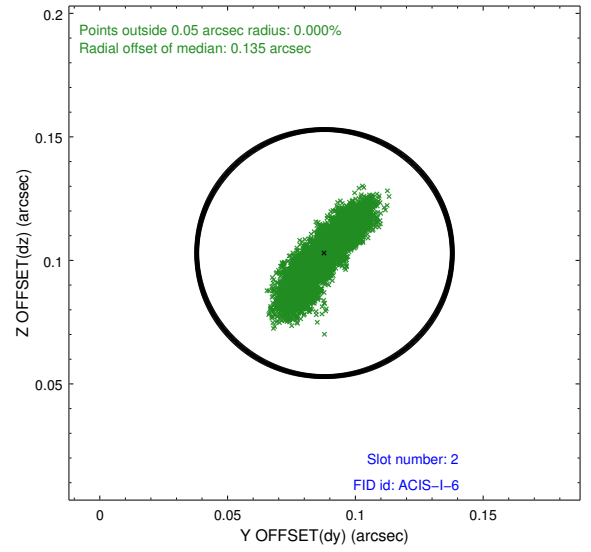
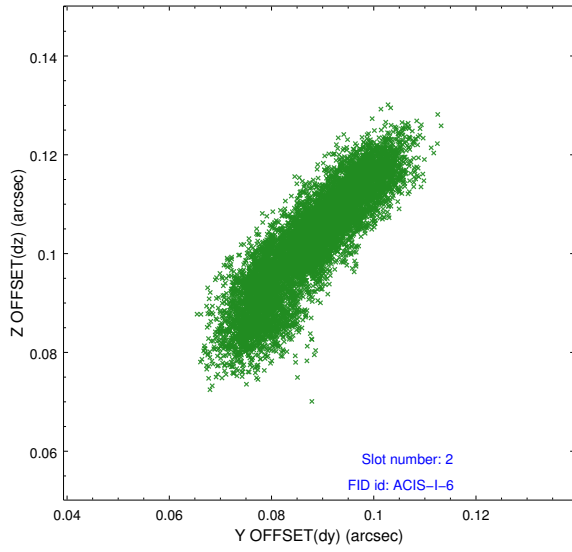
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.5471588

## A.2 Comments