

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11828 - L2 Version 2  
Chandra X-Ray Center

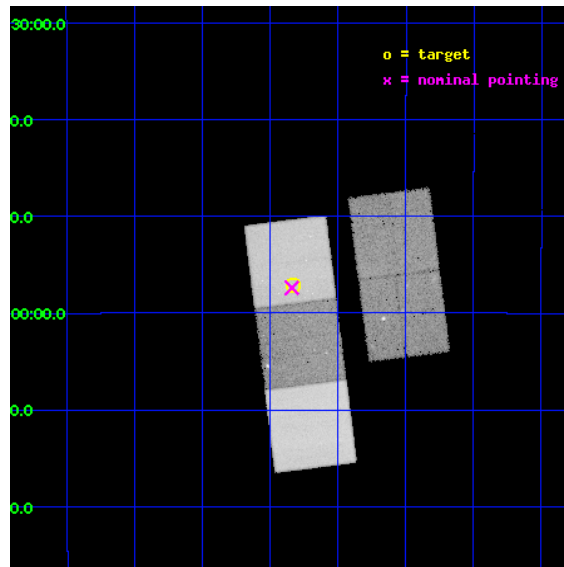
L2 Processing Date : Jun 22 2012

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# 1 Front

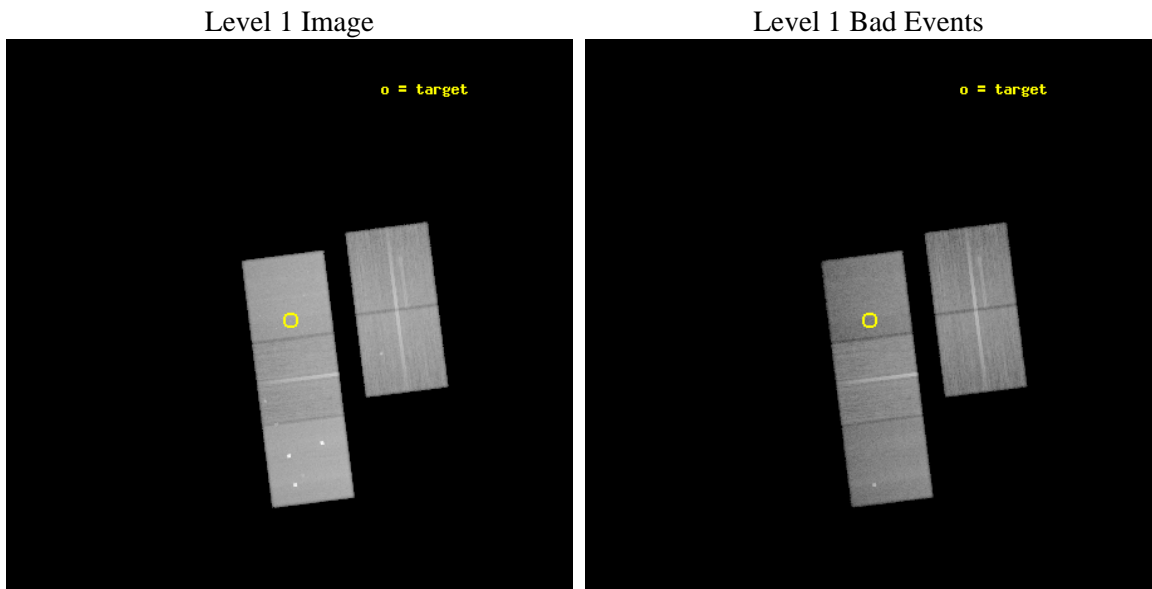
seq_num	501345	Sequence number
obs_id	11828	Observation id
title	Search for Long GRB Jet Breaks	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	GRB 091127	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.58288	Observer's specified target RA [deg]
dec_targ	-18.95239	Observer's specified target Dec [deg]
ra_nom	36.584996641261	Nominal RA [deg]
dec_nom	-18.956788729163	Nominal Dec [deg]
roll_nom	262.79243351439	Nominal Roll [deg]
revision	2	Processing version of data
ontime	38278.800294399	Sum of GTIs [s]
livetime	37778.65958811	Livetime [s]
ontime2	38275.659334064	Sum of GTIs [s]
ontime3	38269.377363622	Sum of GTIs [s]
ontime5	38278.800294399	Sum of GTIs [s]
ontime6	38278.800294399	Sum of GTIs [s]
ontime7	38278.800294399	Sum of GTIs [s]
l2events	458352	Number of level 2 events



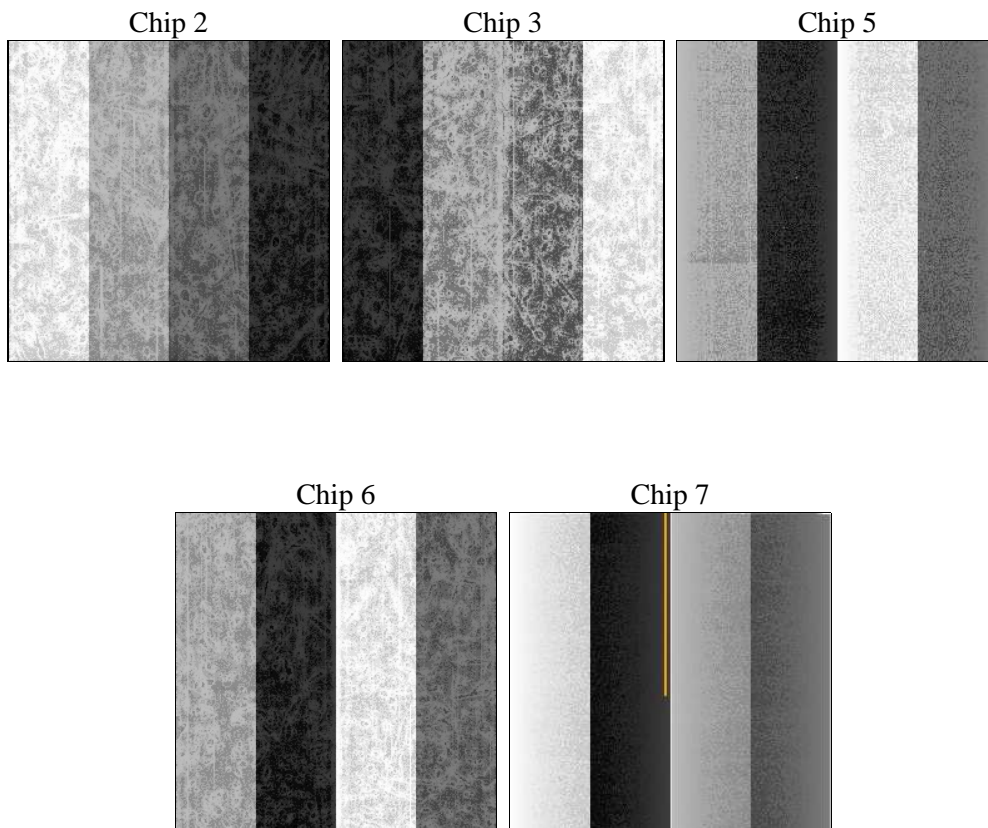
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38097.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	38278.800294399	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime2	38275.659334064	Sum of GTIs [s]
date	2012-06-22T06:55:15	Date and time of file creation	ontime3	38269.377363622	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	38278.800294399	Sum of GTIs [s]
			ontime6	38278.800294399	Sum of GTIs [s]
			ontime7	38278.800294399	Sum of GTIs [s]
			l1events	1780888	Number of level 1 events

### 2.1.4 Events

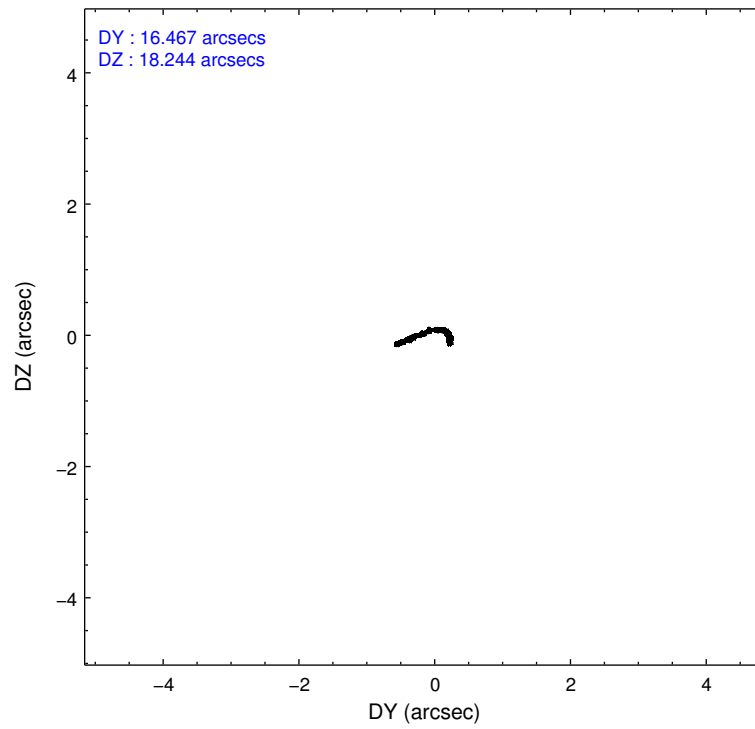
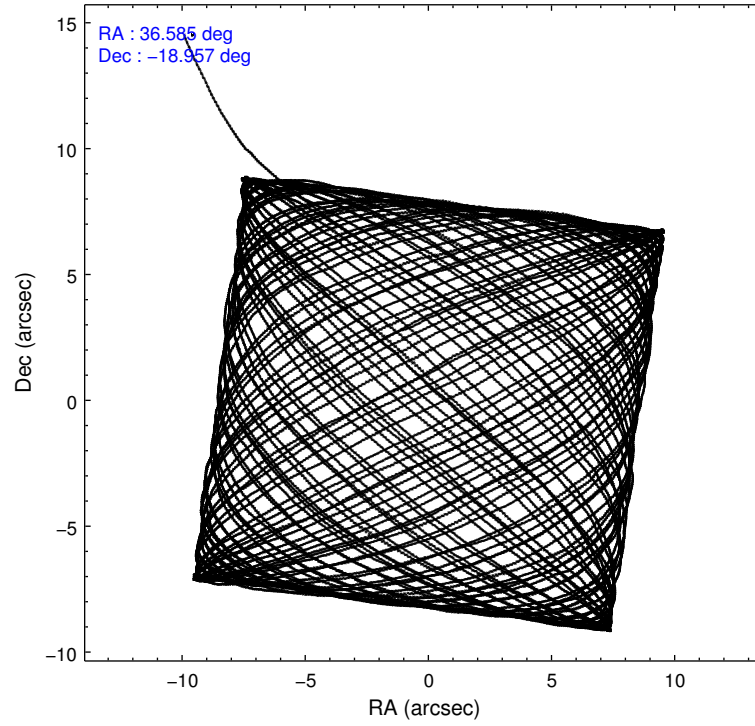
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	318665	299526	477790	317160	367747
rejected events	285825	269372	230846	283069	201226
rejected %	89%	89%	48%	89%	54%

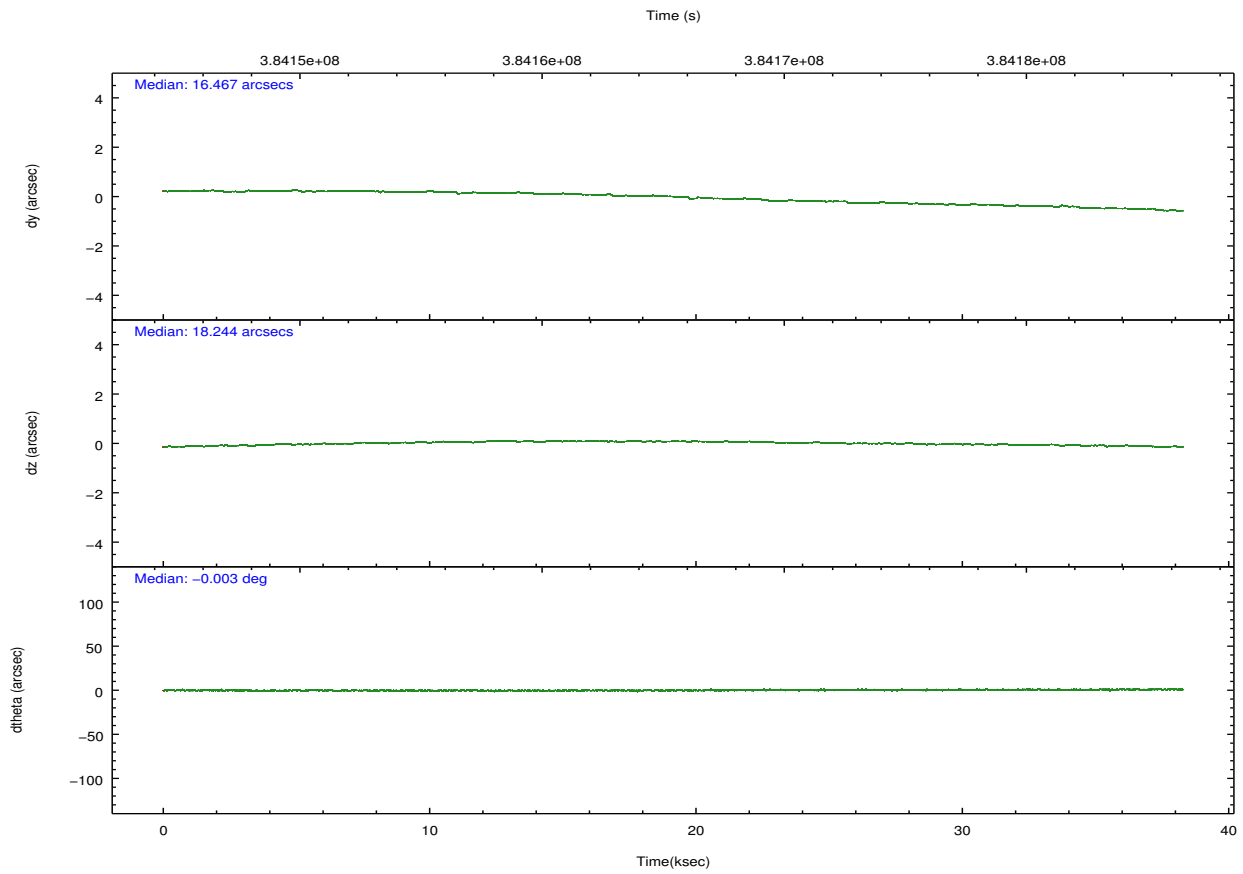
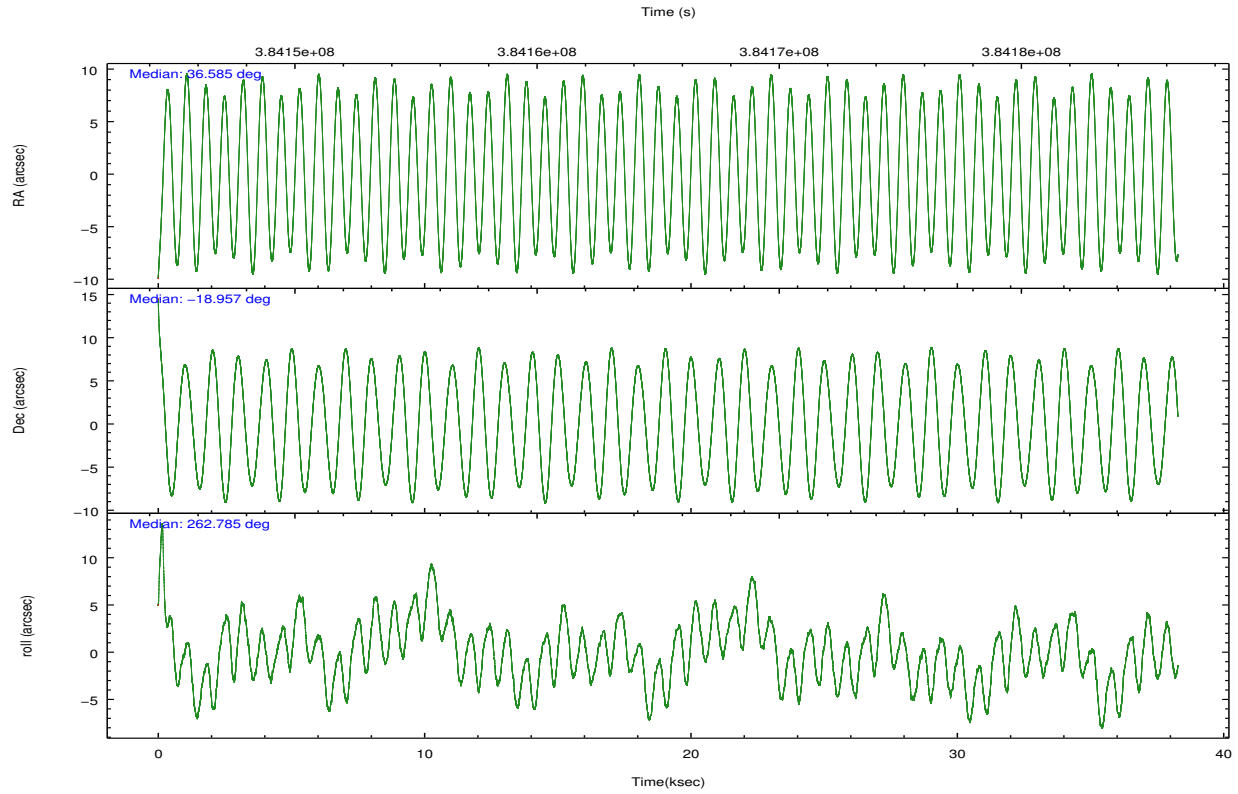
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	11963	10418	41212	12019	15317
	3%	3%	8%	3%	4%
grade 1 events	185	181	2273	158	448
	0%	0%	0%	0%	0%
grade 2 events	7882	6642	69106	7700	33859
	2%	2%	14%	2%	9%
grade 3 events	3376	3504	9235	3711	14970
	1%	1%	1%	1%	4%
grade 4 events	3448	3448	8653	3567	14923
	1%	1%	1%	1%	4%
grade 5 events	11186	13201	35399	13394	38551
	3%	4%	7%	4%	10%
grade 6 events	6178	6151	118798	7102	87504
	1%	2%	24%	2%	23%
grade 7 events	274447	255981	193114	269509	162175
	86%	85%	40%	84%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	36.573440	36.5849966412605	Subarray requested	NONE	NONE
[deg] Pointing Dec	-18.931739	-18.95678872916281	Alternating exposures requested	N	N
[deg] Pointing Roll	262.632056	262.792433514388	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	384146457.184000	384145456.12544			
Observation start date	2010-03-05T03:19:51	2010-03-05T03:04:16			
[s] Observation end time (MET)	384184554.184000	384185471.10247			
Observation end date	2010-03-05T13:54:48	2010-03-05T14:11:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



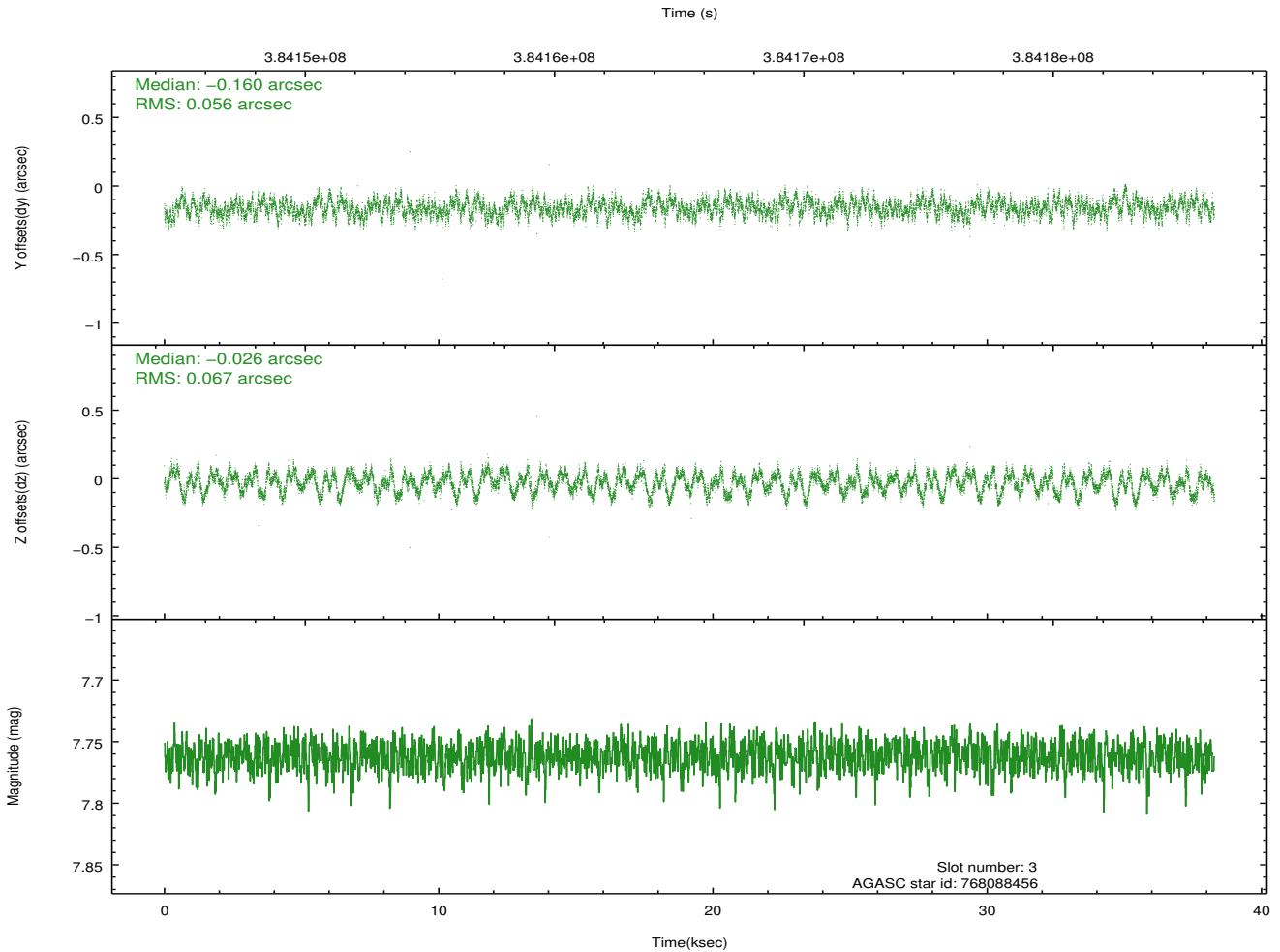
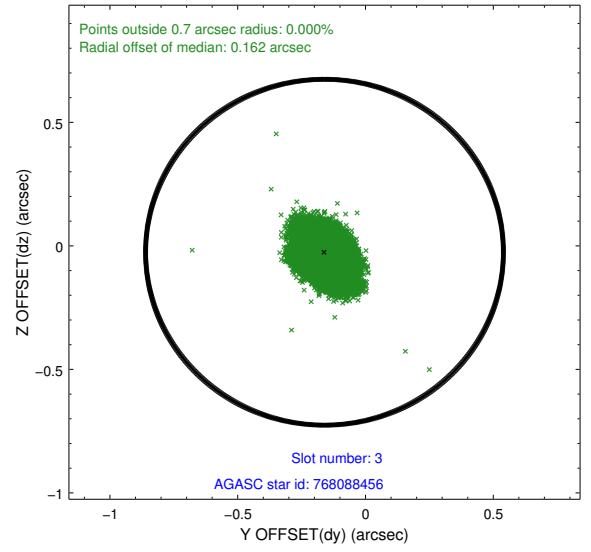
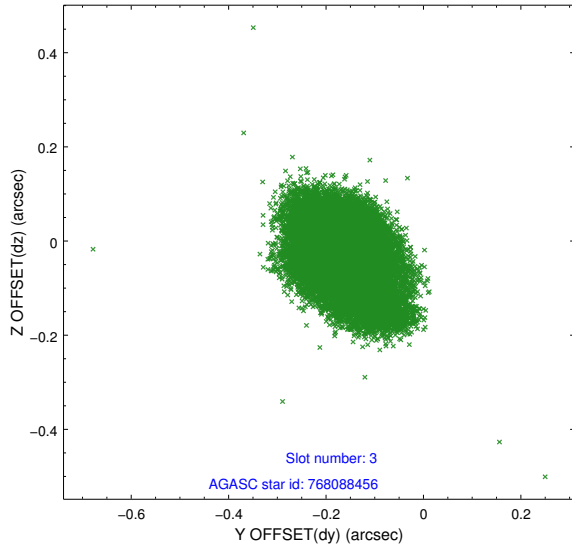


### Slot Statistics

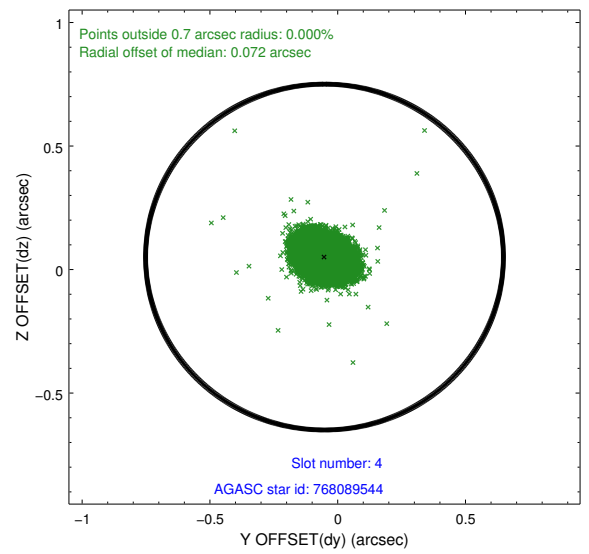
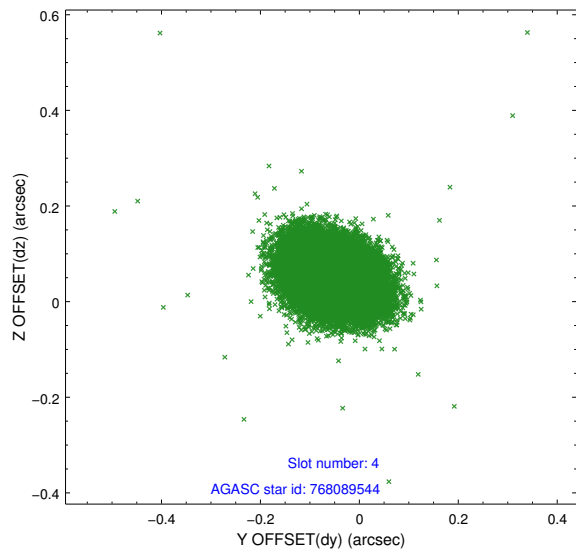
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.85	9339	-0.054	-0.020	0.007	0.012	0.000000	0.000000	-769.50	-1739.71
1	FID	ACIS-S-4	6.93	9339	0.112	0.031	0.009	0.015	0.000000	0.000000	2143.97	168.73
2	FID	ACIS-S-5	6.96	9337	-0.089	-0.003	0.010	0.016	0.000000	0.000000	-1822.31	162.49
3	GUIDE	768088456	7.76	18671	-0.160	-0.026	0.093	0.150	37.279956	-18.532847	-1728.94	2208.40
4	GUIDE	768089544	8.20	18674	-0.052	0.051	0.074	0.116	37.215180	-18.619050	-1393.54	2027.37
5	GUIDE	768358344	9.66	18653	-0.048	-0.195	0.164	0.259	36.628826	-19.091249	545.92	262.56
6	GUIDE	768361776	10.24	18595	0.138	0.113	0.255	0.445	37.108064	-18.909815	-309.32	1796.84
7	GUIDE	768363168	9.93	18643	0.145	0.037	0.162	0.256	36.784575	-19.287604	1179.48	876.63

## 2.4 Star Slots

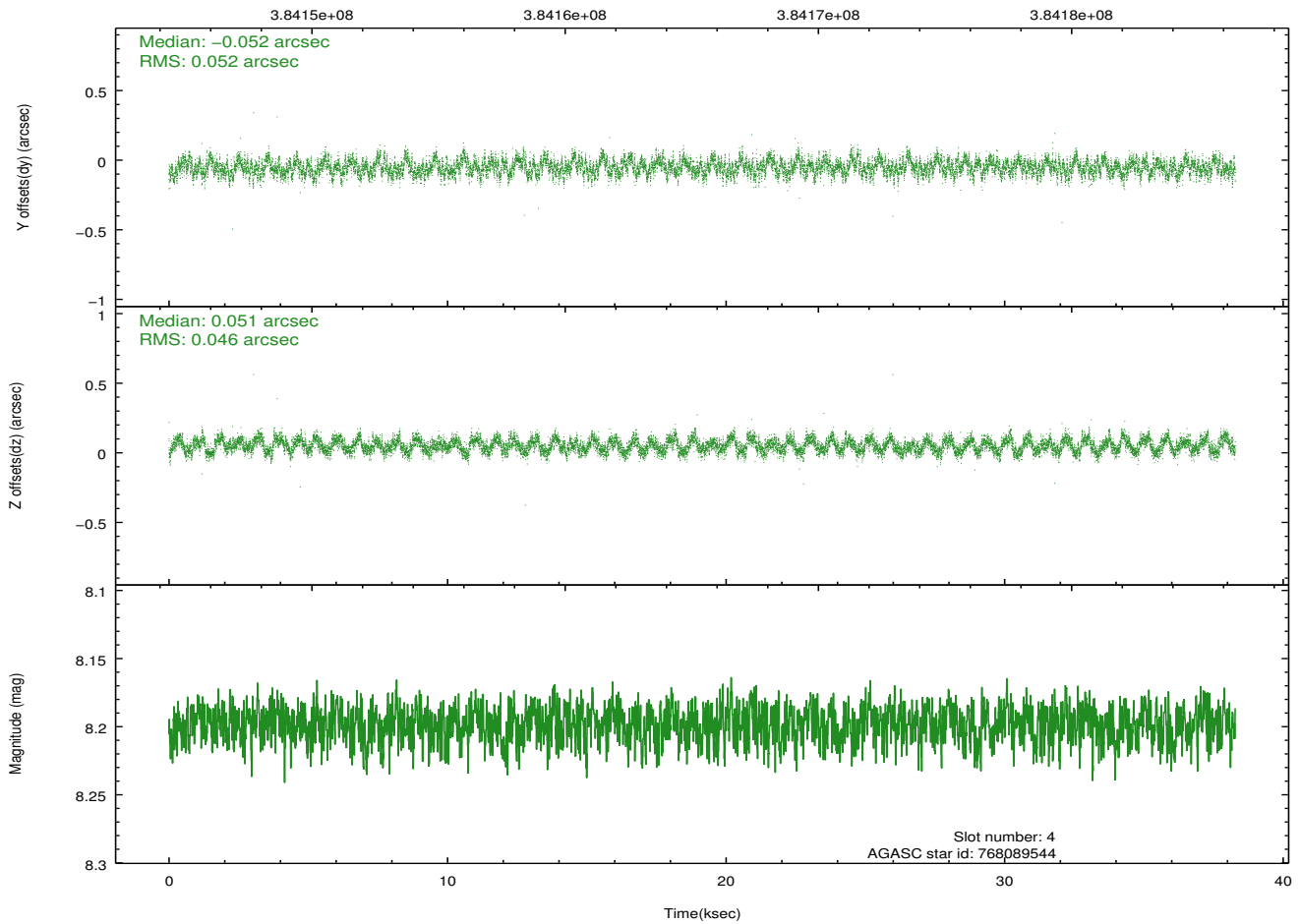
### 2.4.1 Slot 3



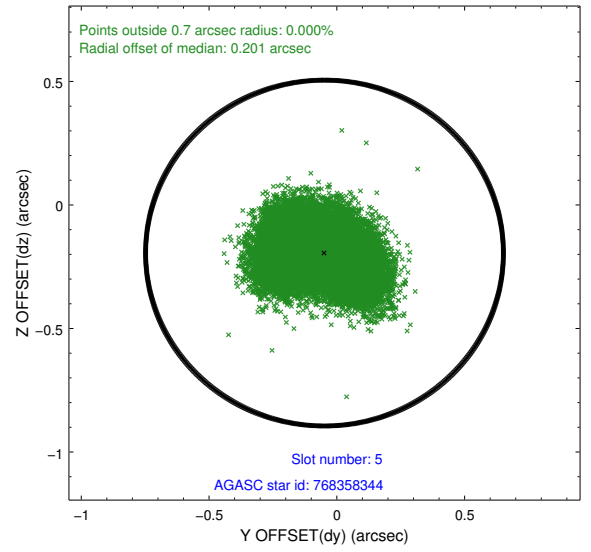
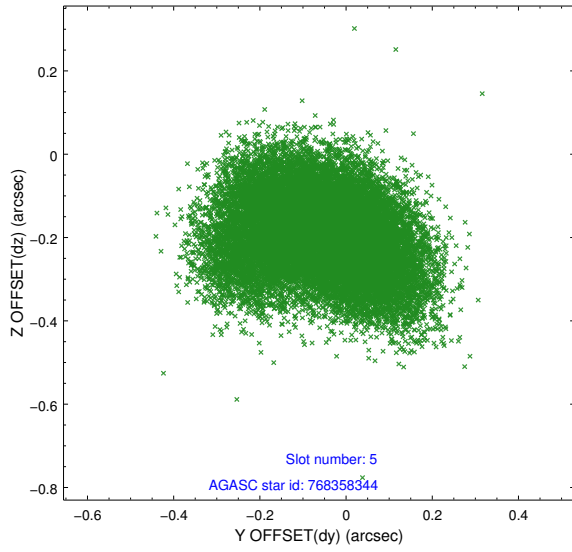
## 2.4.2 Slot 4



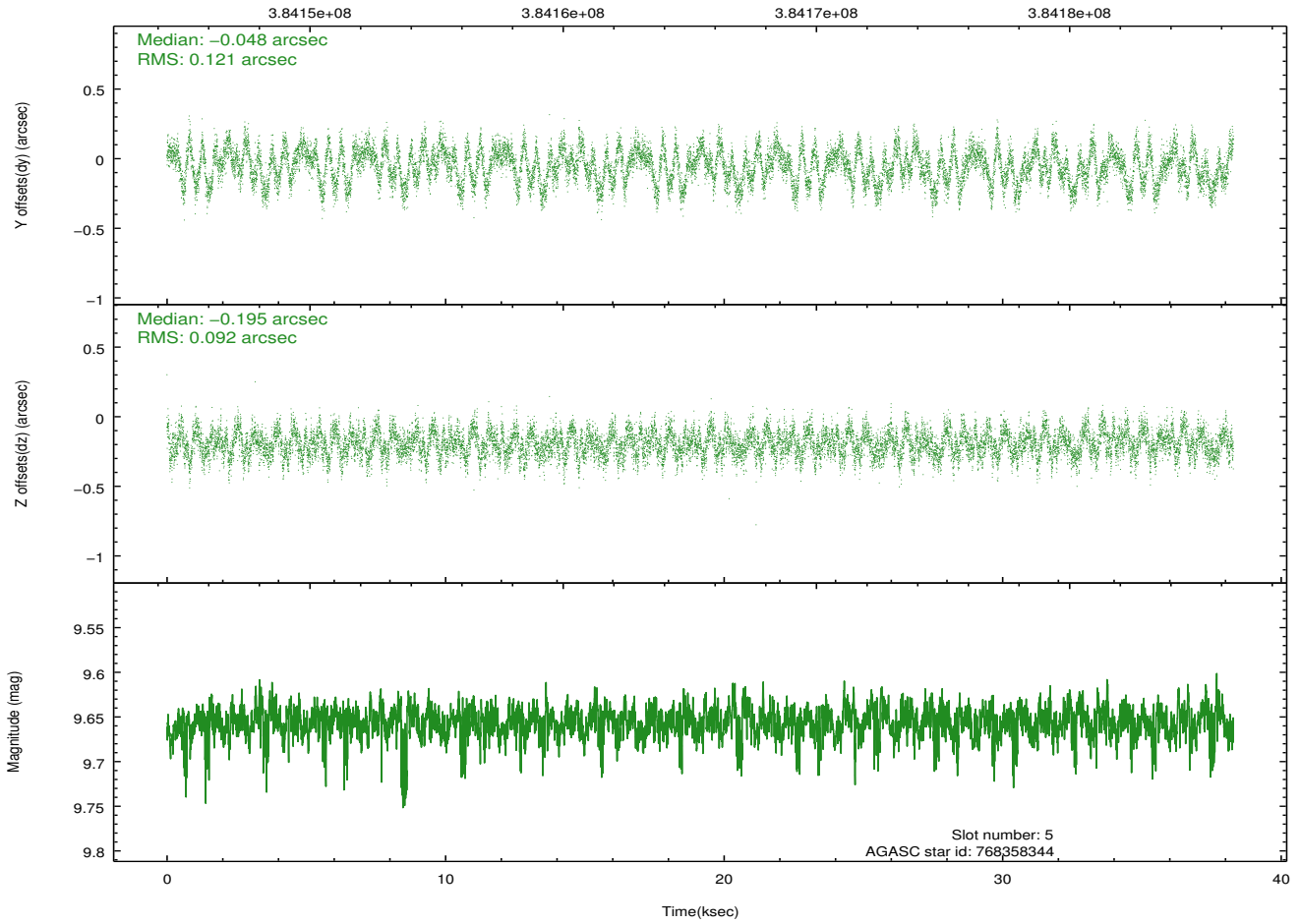
Time (s)



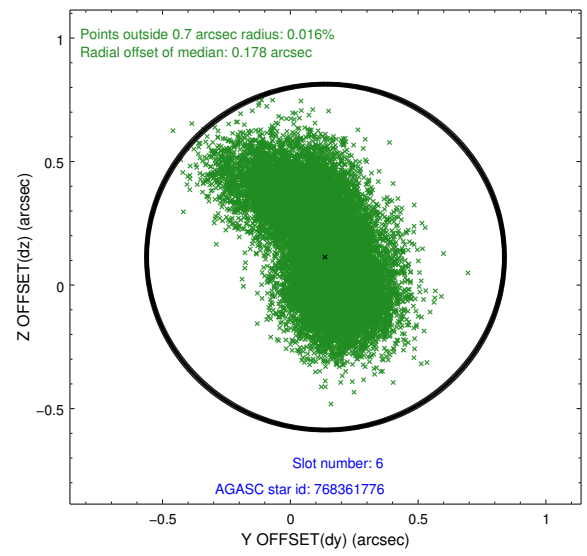
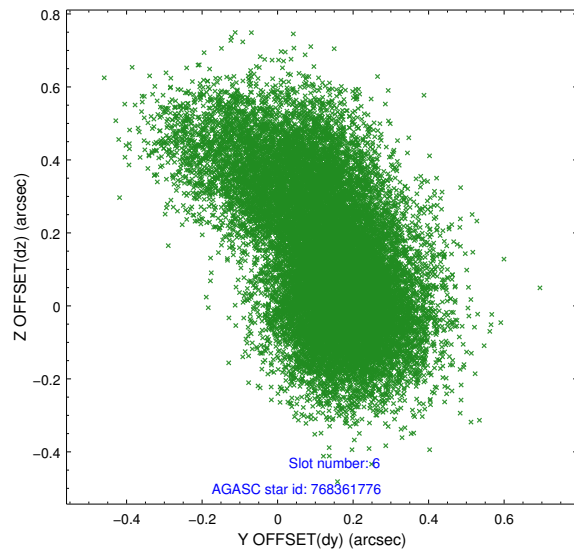
### 2.4.3 Slot 5



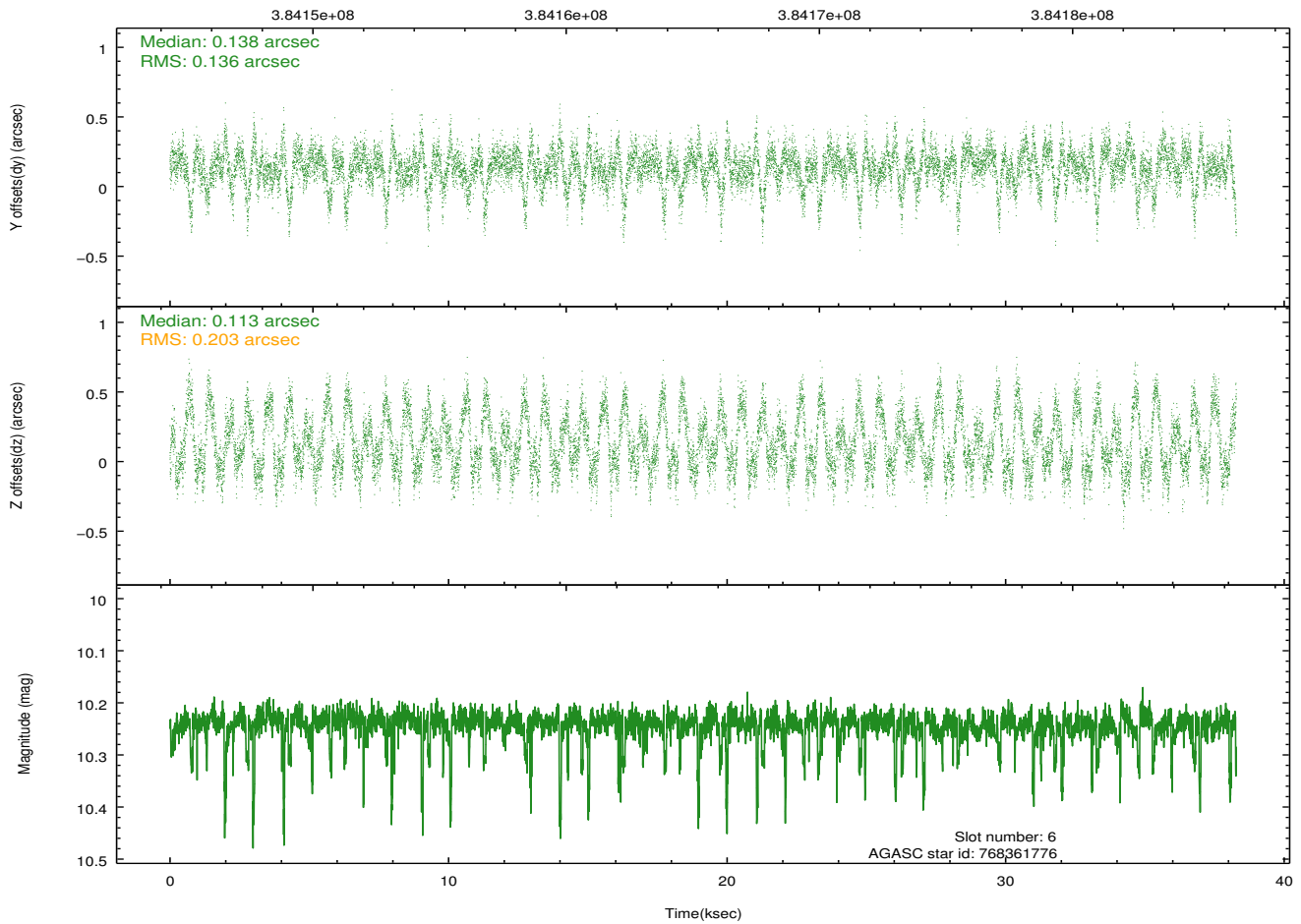
Time (s)



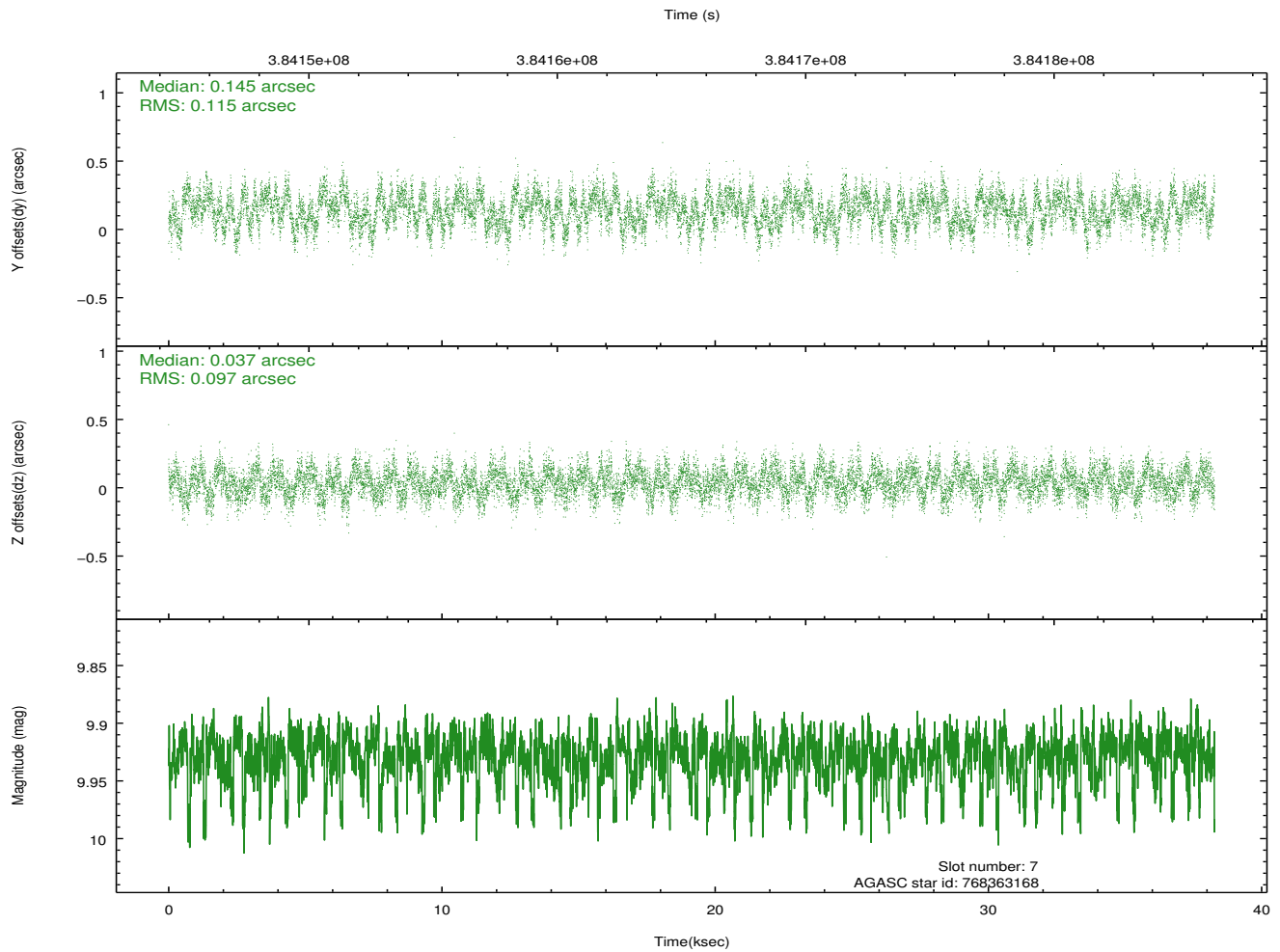
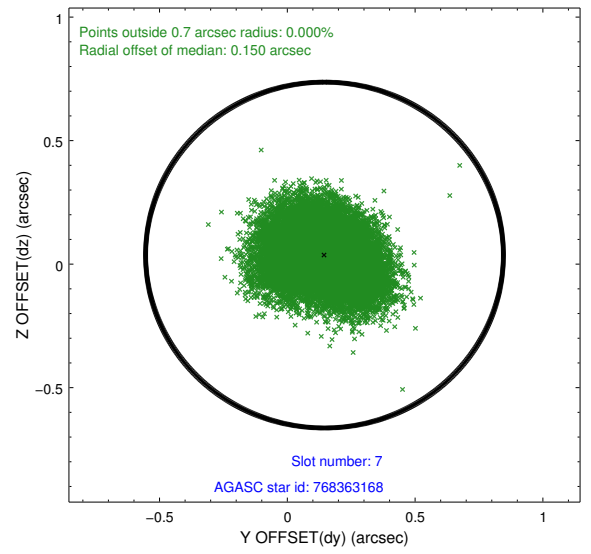
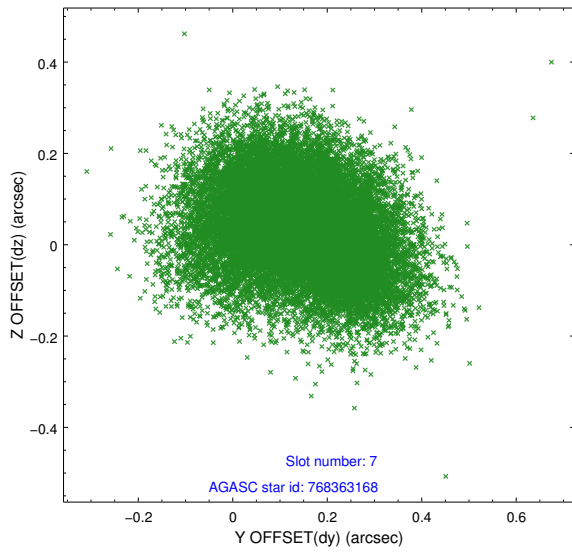
## 2.4.4 Slot 6



Time (s)

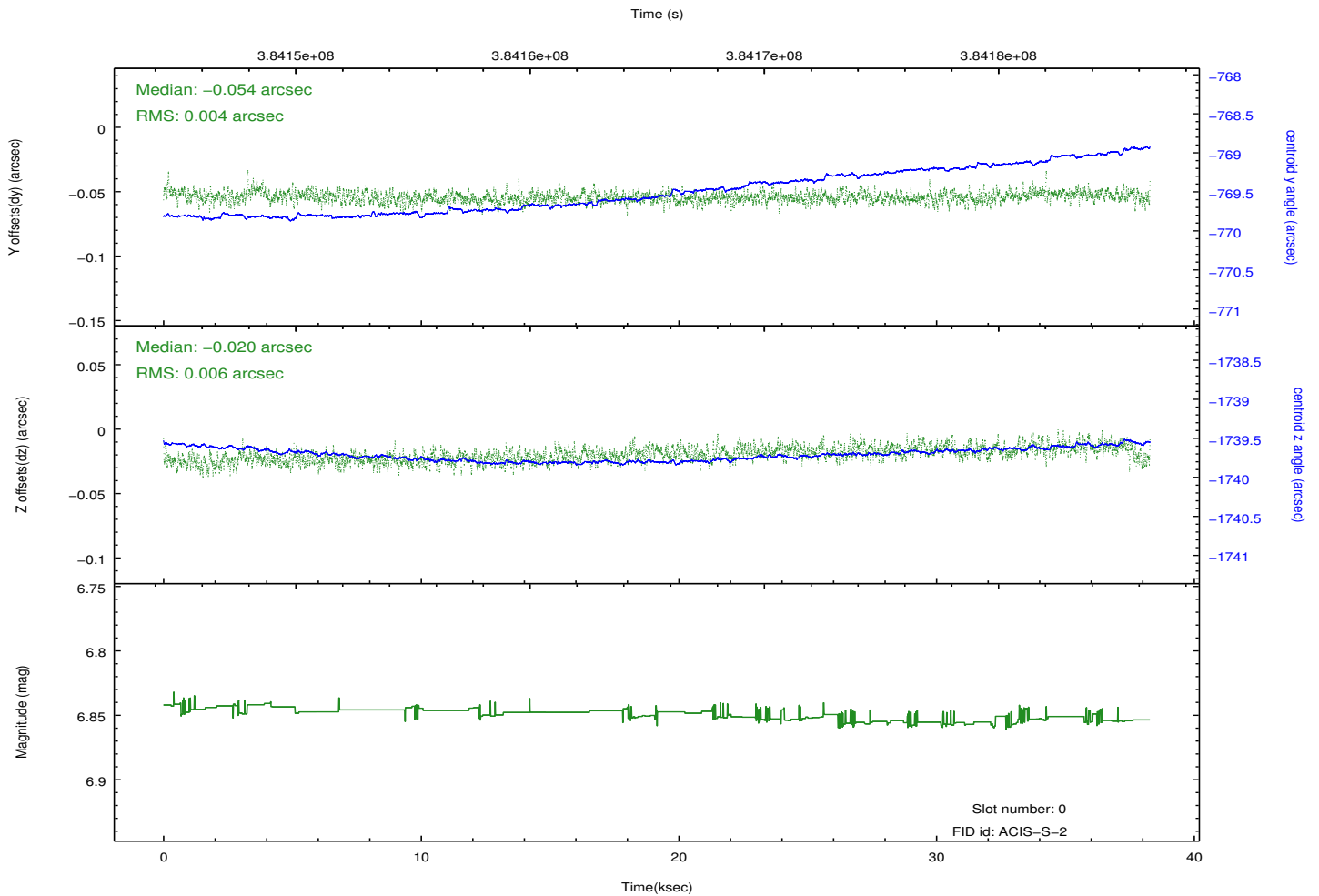
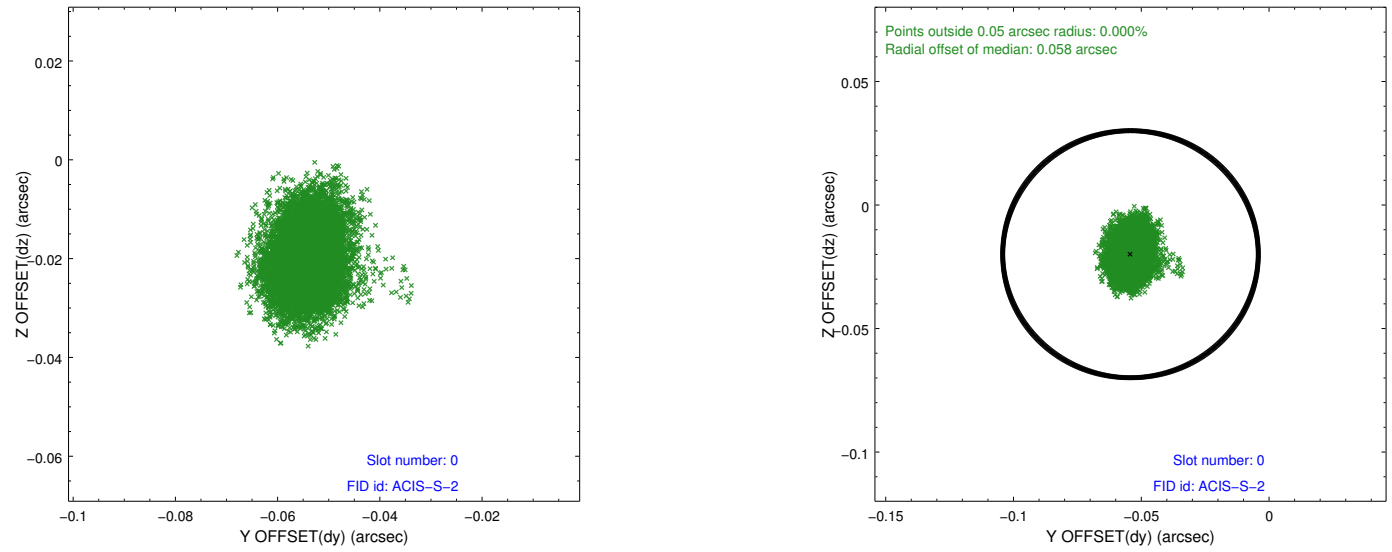


## 2.4.5 Slot 7

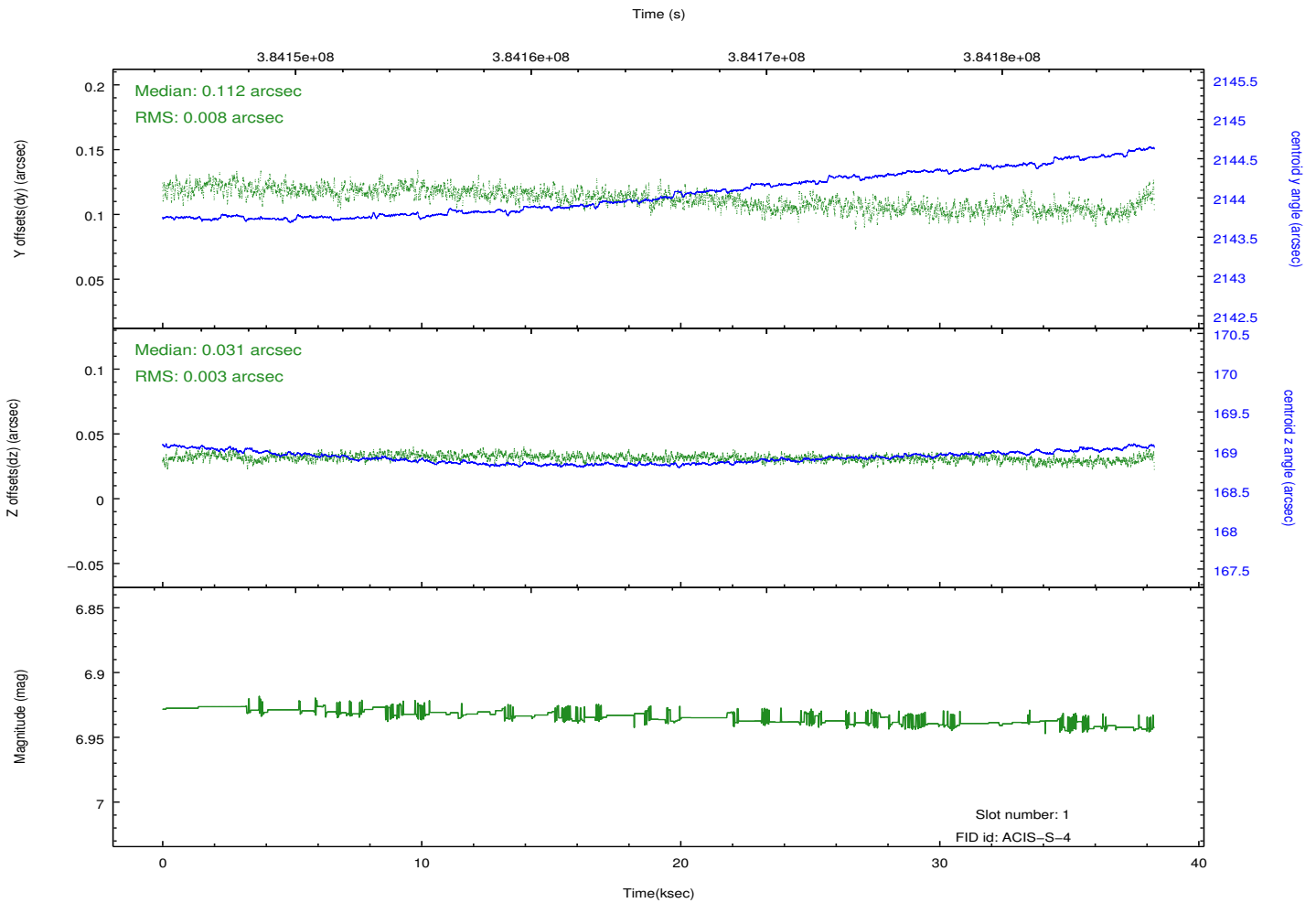
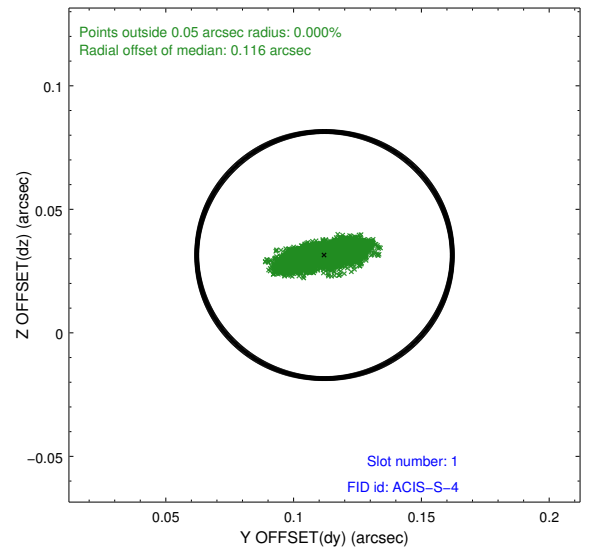
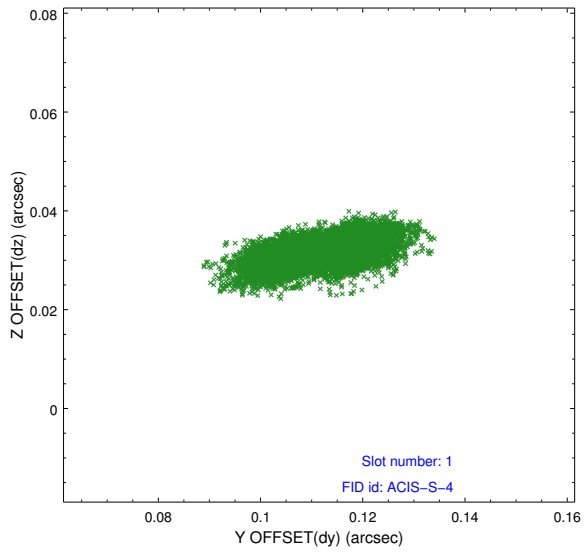


## 2.5 FID Slots

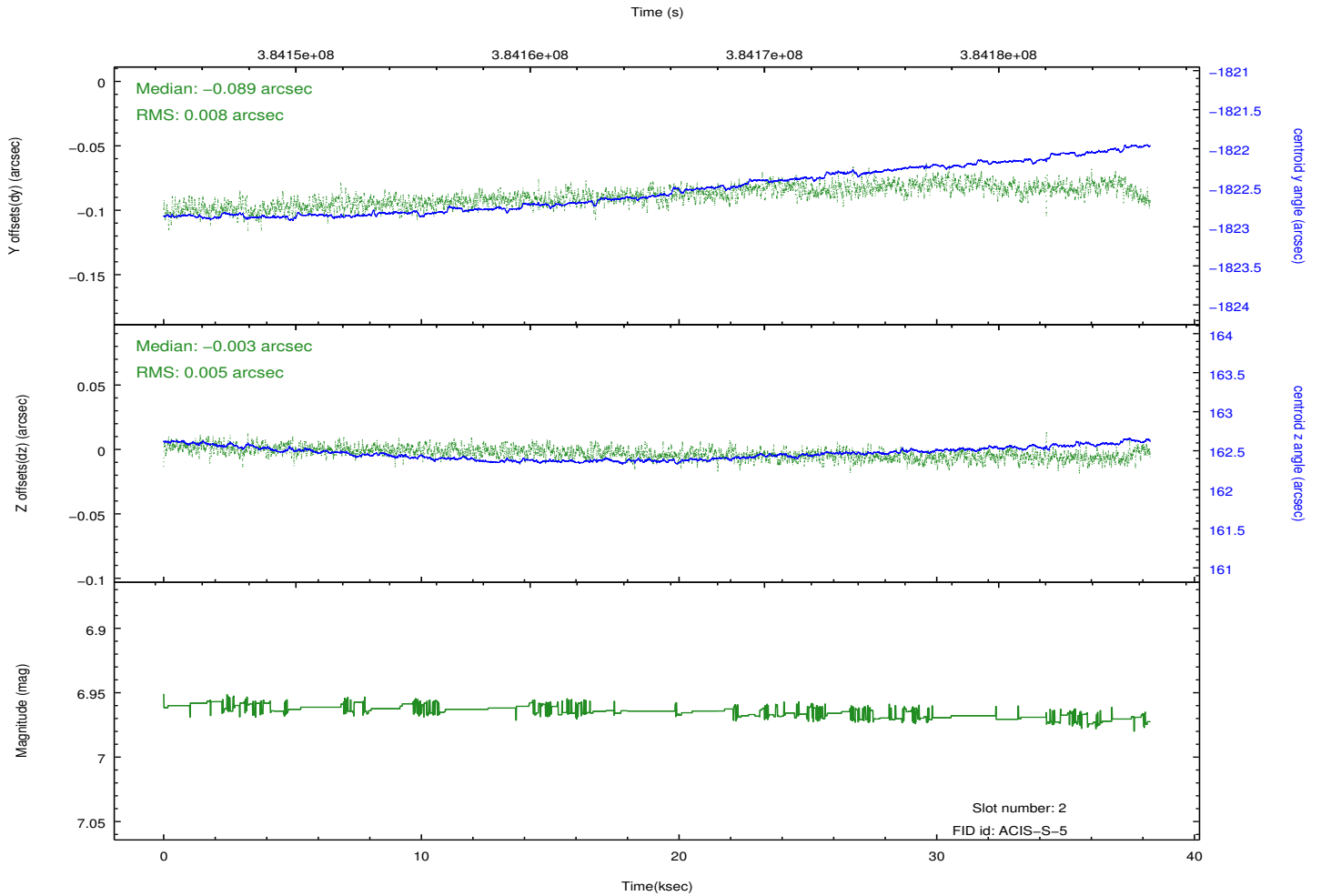
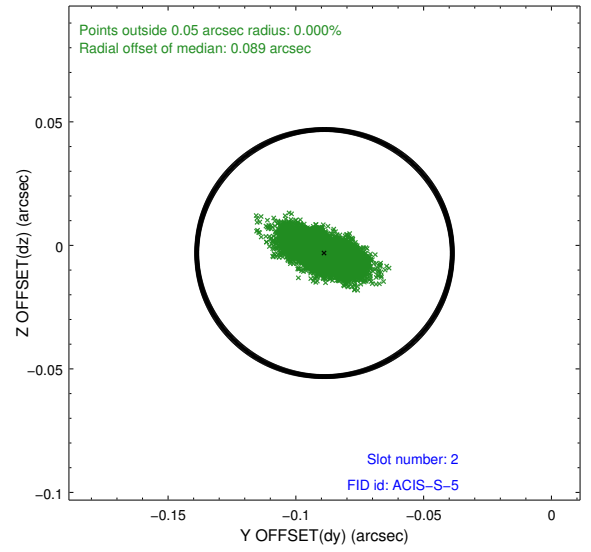
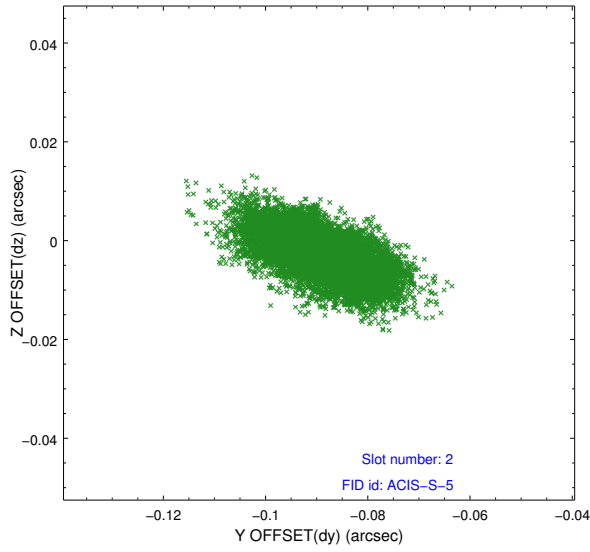
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.278800294399

## A.2 Comments