

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7157 - L2 Version 2  
Chandra X-Ray Center

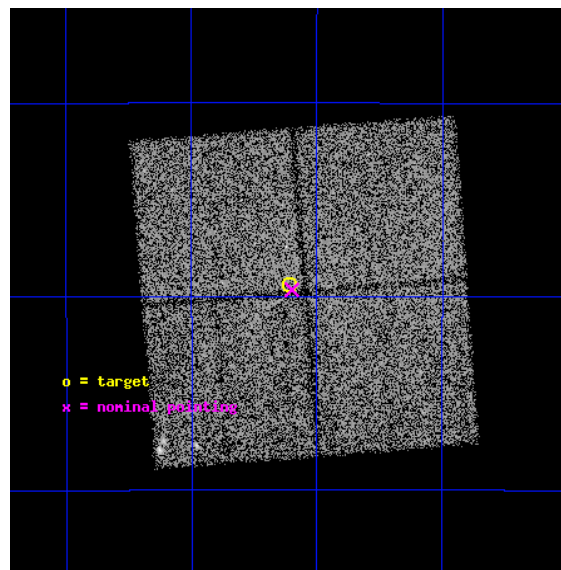
L2 Processing Date : Apr 12 2012

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# 1 Front

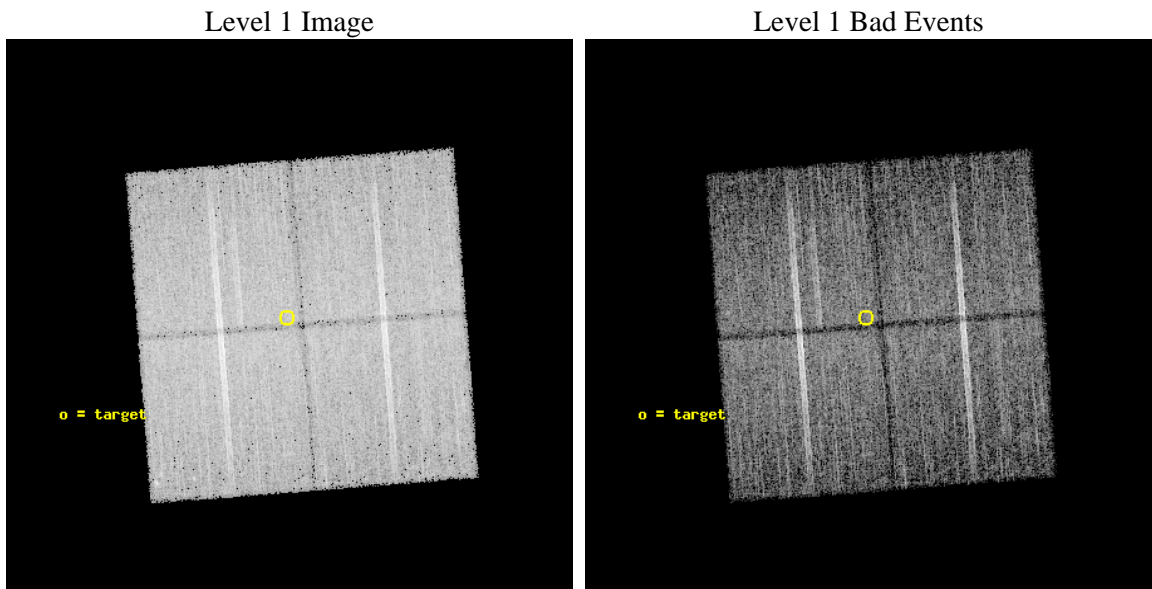
seq_num	600595	Sequence number
obs_id	7157	Observation id
title	Galactic Bulge Latitude Survey	Proposal title
observer	Professor Johnathan Grindlay	Principal investigator
object	GBW1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.9025	Observer's specified target RA [deg]
dec_targ	-28.990028	Observer's specified target Dec [deg]
ra_nom	266.90002694187	Nominal RA [deg]
dec_nom	-28.994173272475	Nominal Dec [deg]
roll_nom	265.60049639284	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15121.800116301	Sum of GTIs [s]
livetime	14924.222665274	Livetime [s]
ontime0	15118.659146011	Sum of GTIs [s]
ontime1	15115.518155694	Sum of GTIs [s]
ontime2	15121.800116301	Sum of GTIs [s]
ontime3	15121.800116301	Sum of GTIs [s]
l2events	68335	Number of level 2 events



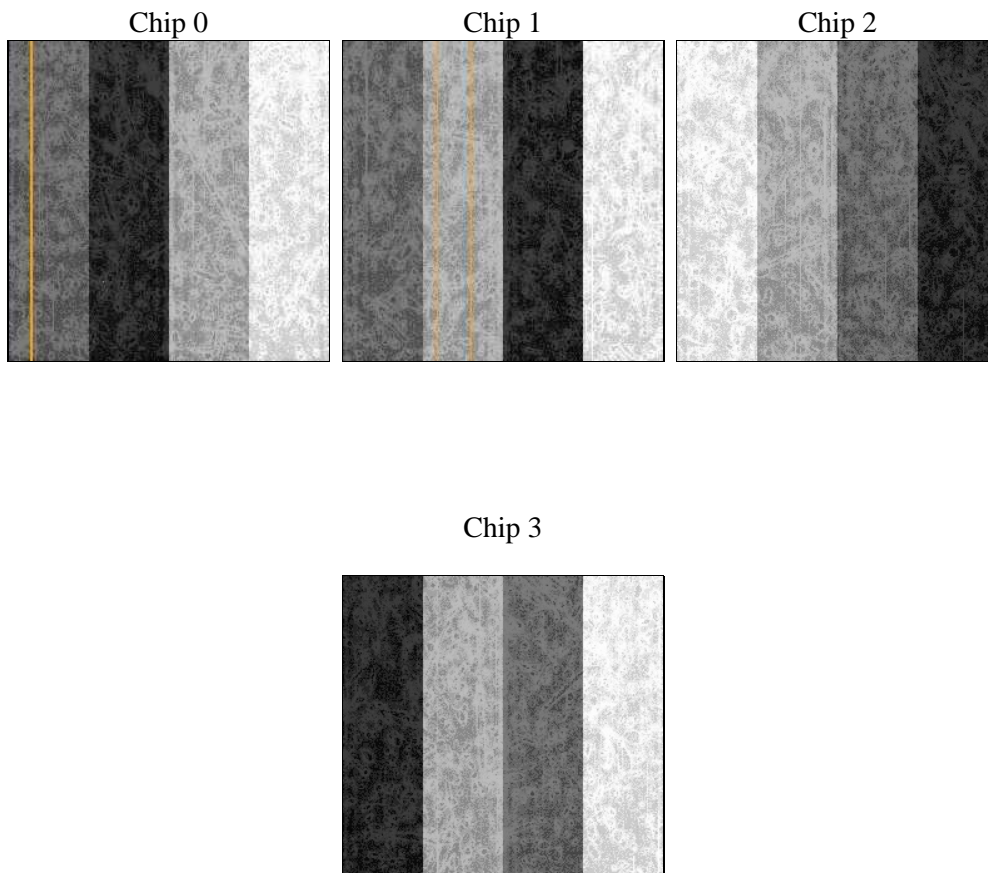
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	15121.800116301	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	15118.659146011	Sum of GTIs [s]
date	2012-04-12T07:52:20	Date and time of file creation	ontime1	15115.518155694	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	15121.800116301	Sum of GTIs [s]
			ontime3	15121.800116301	Sum of GTIs [s]
			l1events	614163	Number of level 1 events

### 2.1.4 Events

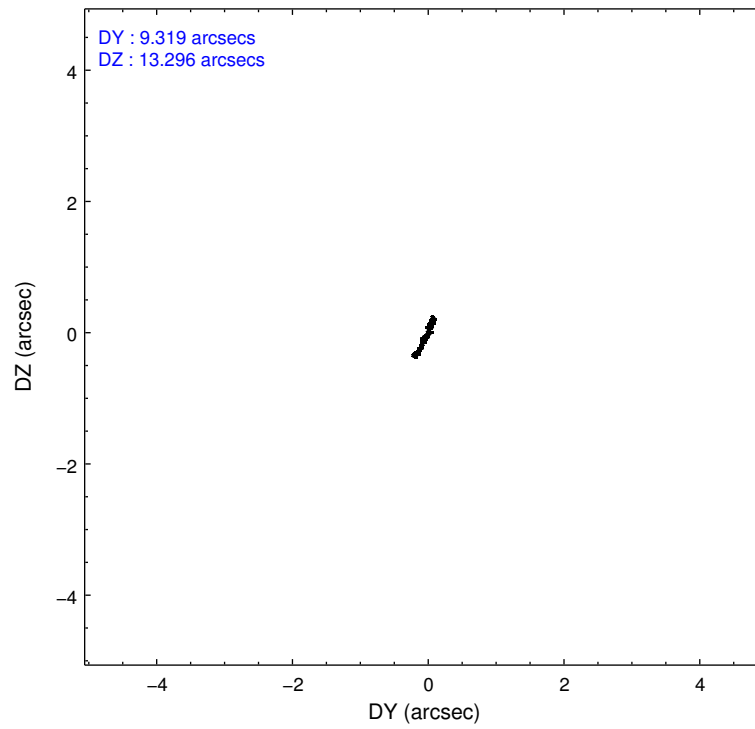
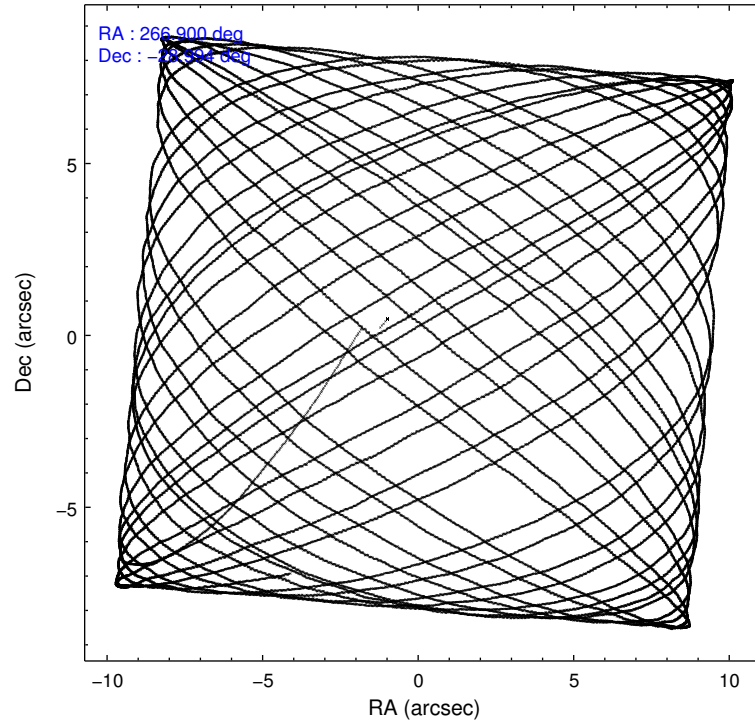
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	146364	148077	161569	158153
rejected events	126512	127360	142439	139274
rejected %	86%	86%	88%	88%

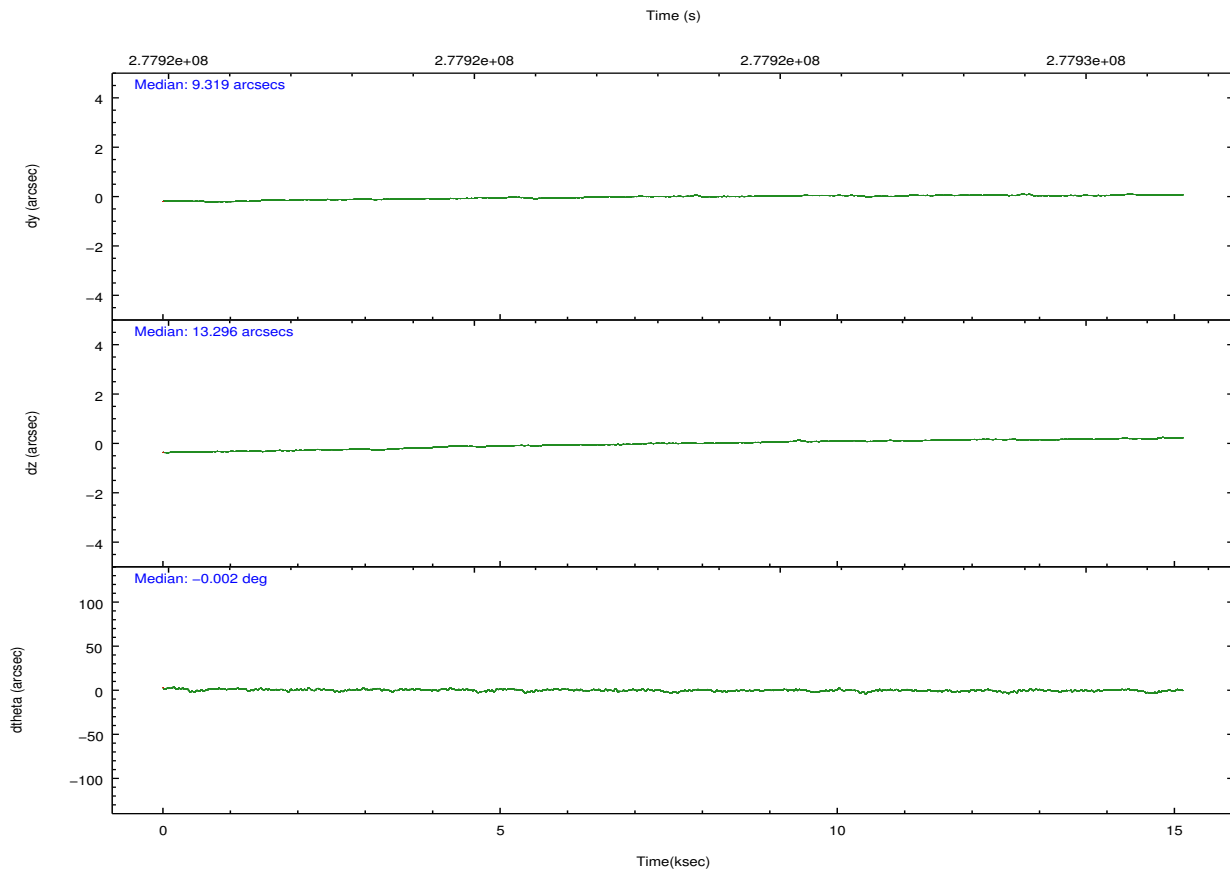
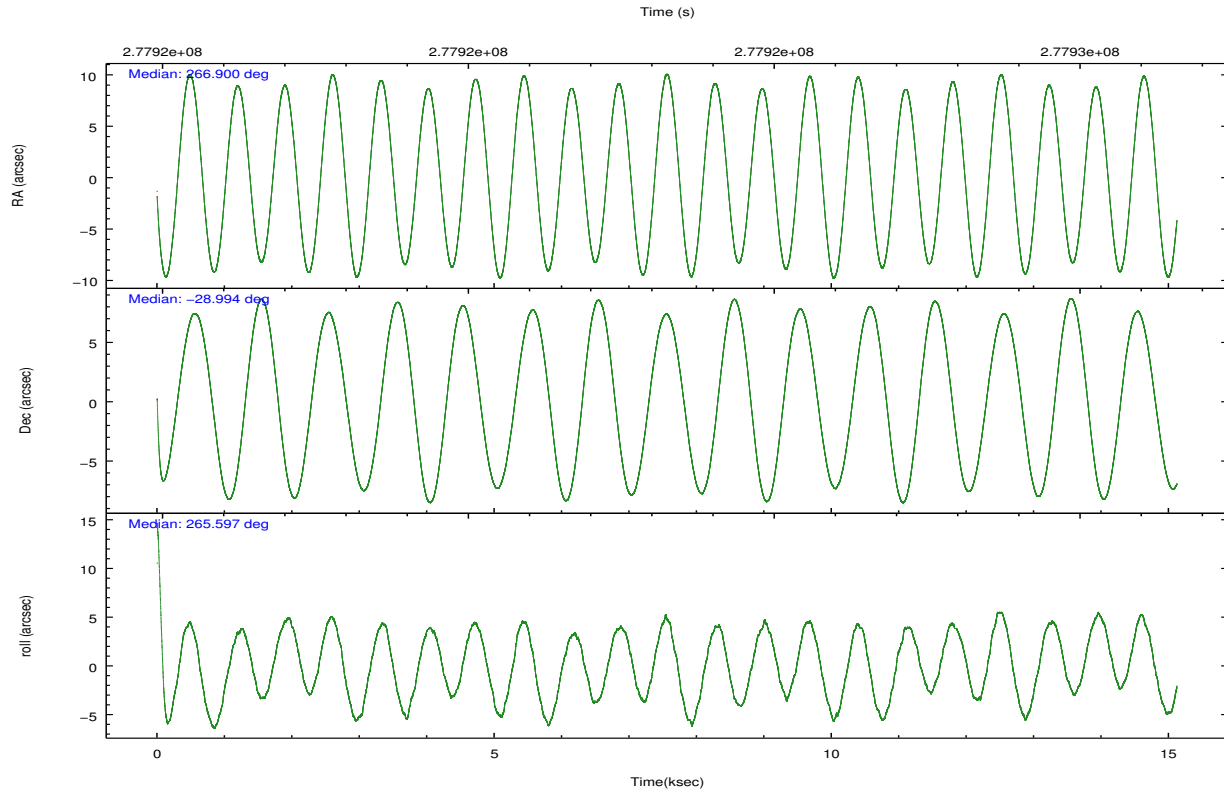
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	10325	10126	10623	10268
	7%	6%	6%	6%
grade 1 events	120	125	117	130
	0%	0%	0%	0%
grade 2 events	4601	4912	4274	4010
	3%	3%	2%	2%
grade 3 events	1893	1985	1850	1851
	1%	1%	1%	1%
grade 4 events	1850	1941	1789	1903
	1%	1%	1%	1%
grade 5 events	6058	6710	5895	7156
	4%	4%	3%	4%
grade 6 events	3492	4148	3138	3495
	2%	2%	1%	2%
grade 7 events	118025	118130	133883	129340
	80%	79%	82%	81%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	266.886419	266.9000269418684	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.969500	-28.99417327247512	Alternating exposures requested	N	N
[deg] Pointing Roll	265.385209	265.6004963928443	[s] Primary exposure time	0.000000	3.1
[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)	277915807.184000	277914063.19261			
Observation start date	2006-10-22T14:49:02	2006-10-22T14:21:03			
[s] Observation end time (MET)	277930807.184000	277932042.71846			
Observation end date	2006-10-22T18:59:02	2006-10-22T19:20:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect



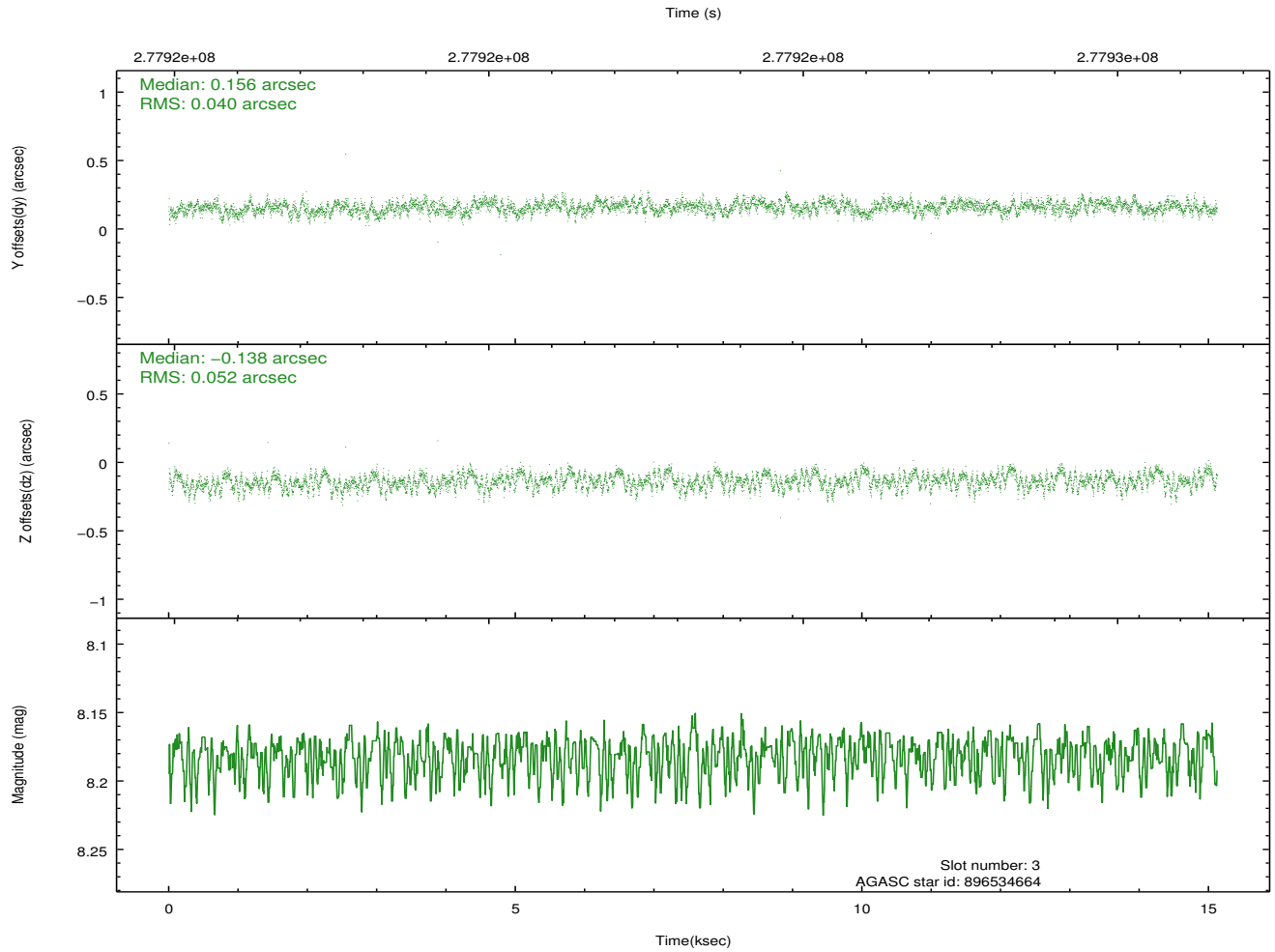
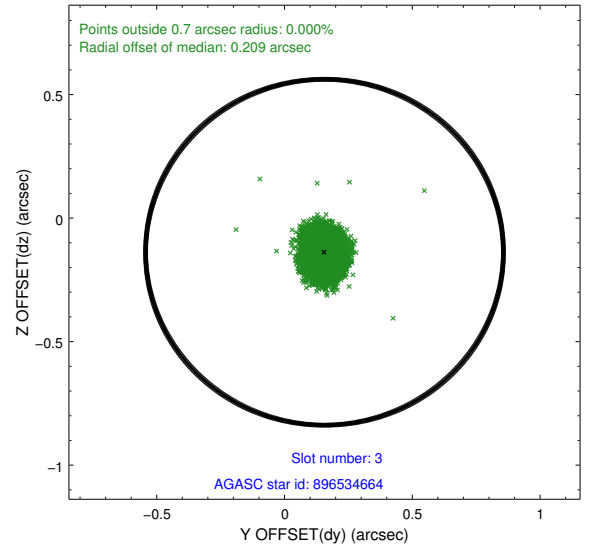
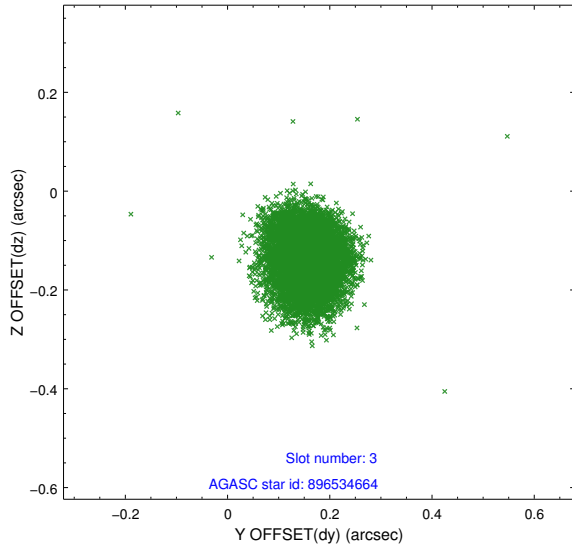


### Slot Statistics

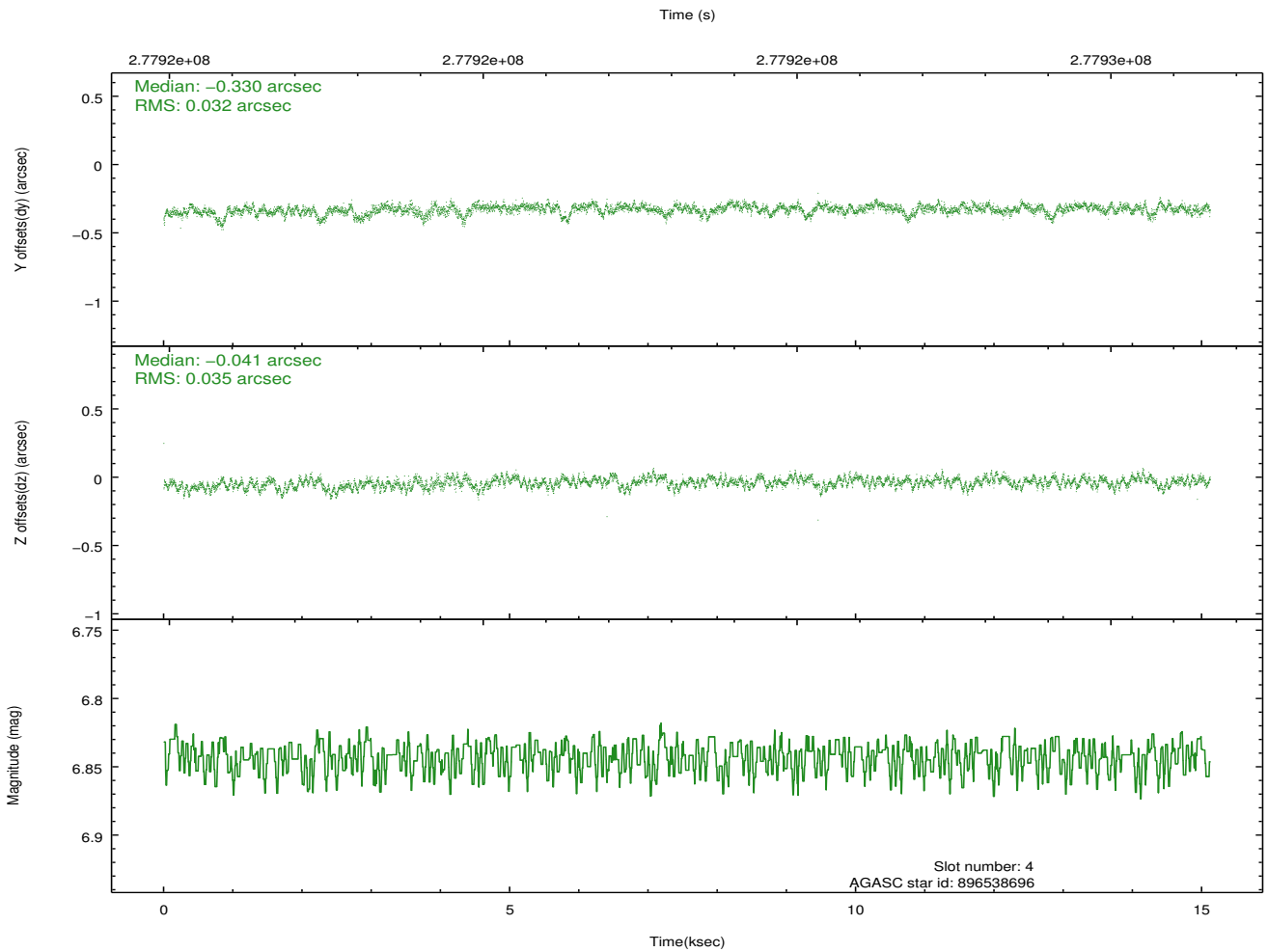
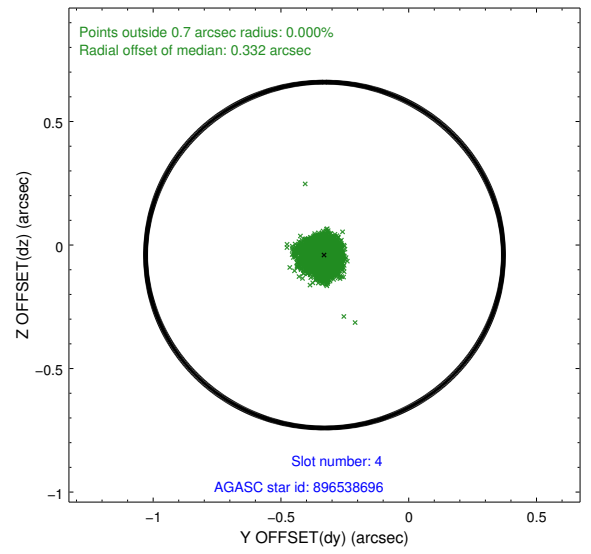
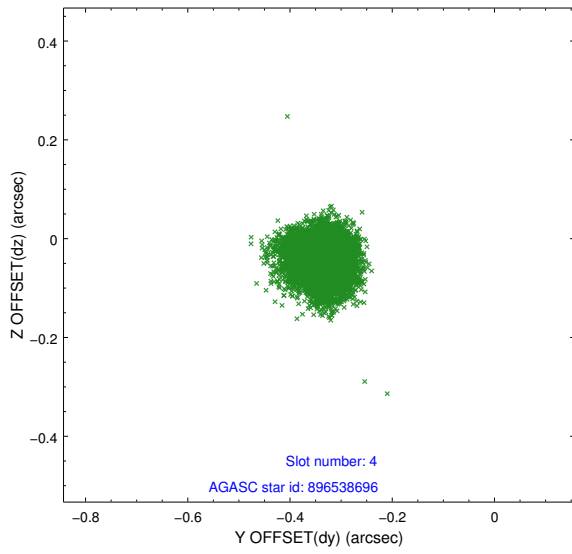
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	7.18	3689	0.142	0.041	0.016	0.034	0.000000	0.000000	2150.44	1063.09
1	FID	ACIS-I-5	7.23	3689	-0.250	0.031	0.012	0.025	0.000000	0.000000	-1817.53	1061.07
2	FID	ACIS-I-6	7.24	3689	0.007	-0.004	0.012	0.019	0.000000	0.000000	395.56	1705.36
3	GUIDE	896534664	8.18	7377	0.156	-0.138	0.070	0.109	266.405570	-28.407461	-1890.70	-1680.28
4	GUIDE	896538696	6.84	7376	-0.330	-0.041	0.050	0.084	266.298470	-28.325572	-2156.38	-2043.52
5	GUIDE	896541360	7.73	7372	0.050	0.036	0.053	0.085	266.684478	-29.453744	1789.18	-490.57
6	GUIDE	896536400	8.54	7375	0.240	0.130	0.067	0.109	267.359146	-29.438655	1567.93	1613.86
7	GUIDE	896537488	8.84	7366	-0.114	0.011	0.078	0.127	267.422655	-28.504114	-1802.35	1556.90

## 2.4 Star Slots

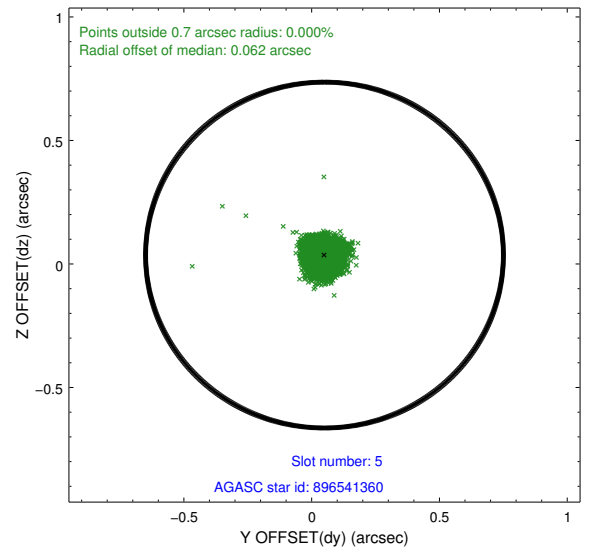
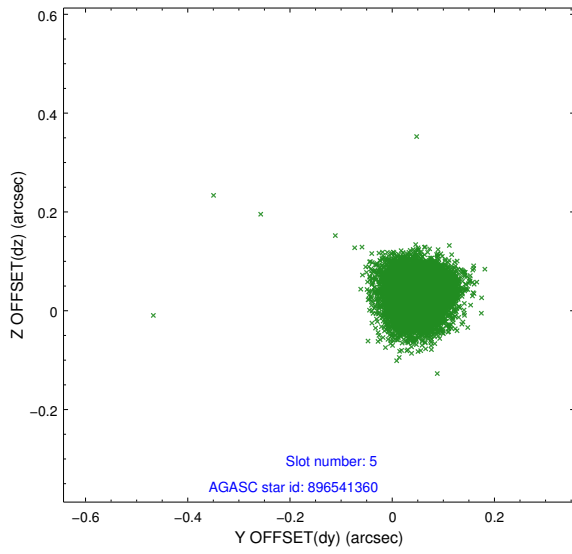
### 2.4.1 Slot 3



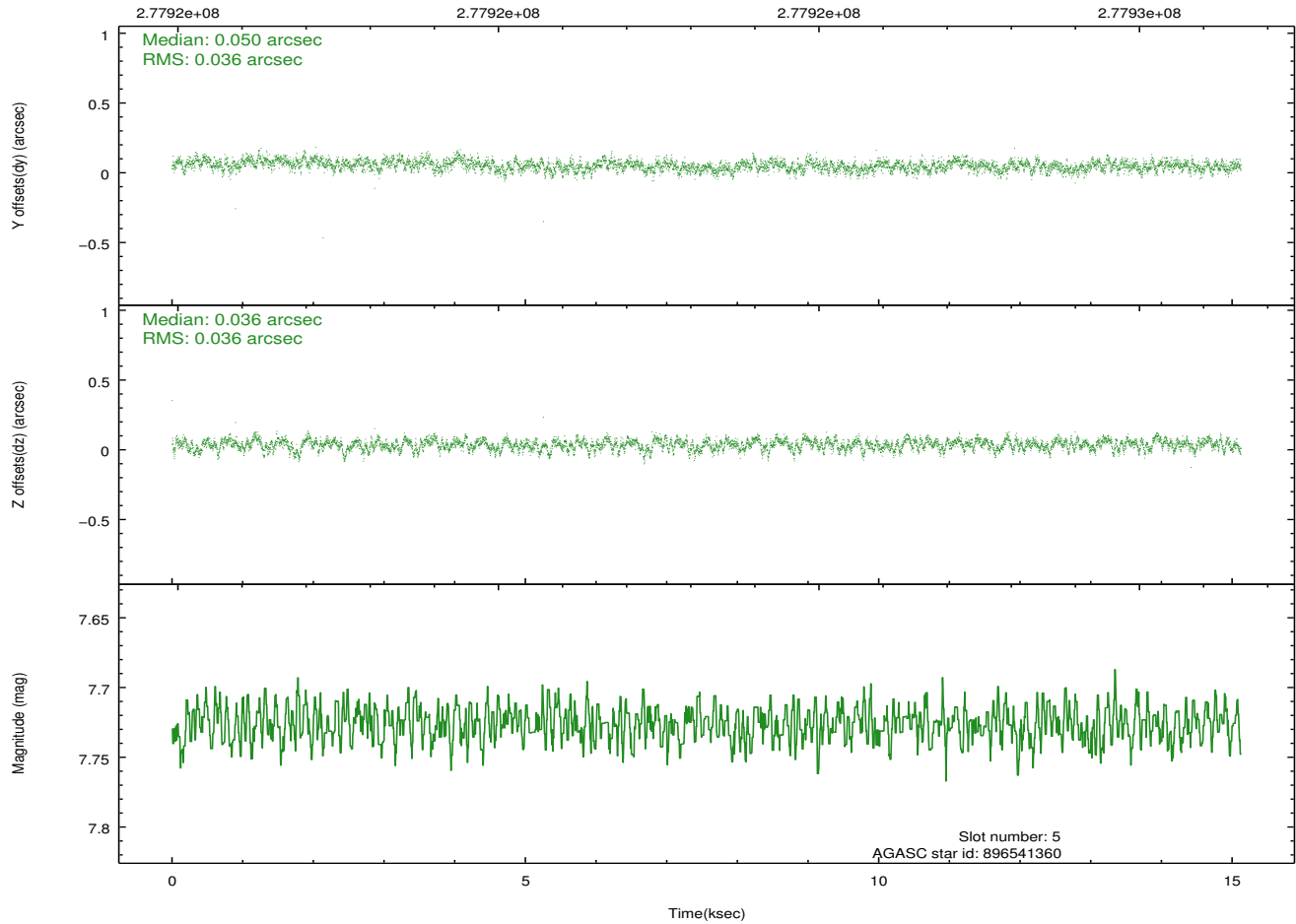
## 2.4.2 Slot 4



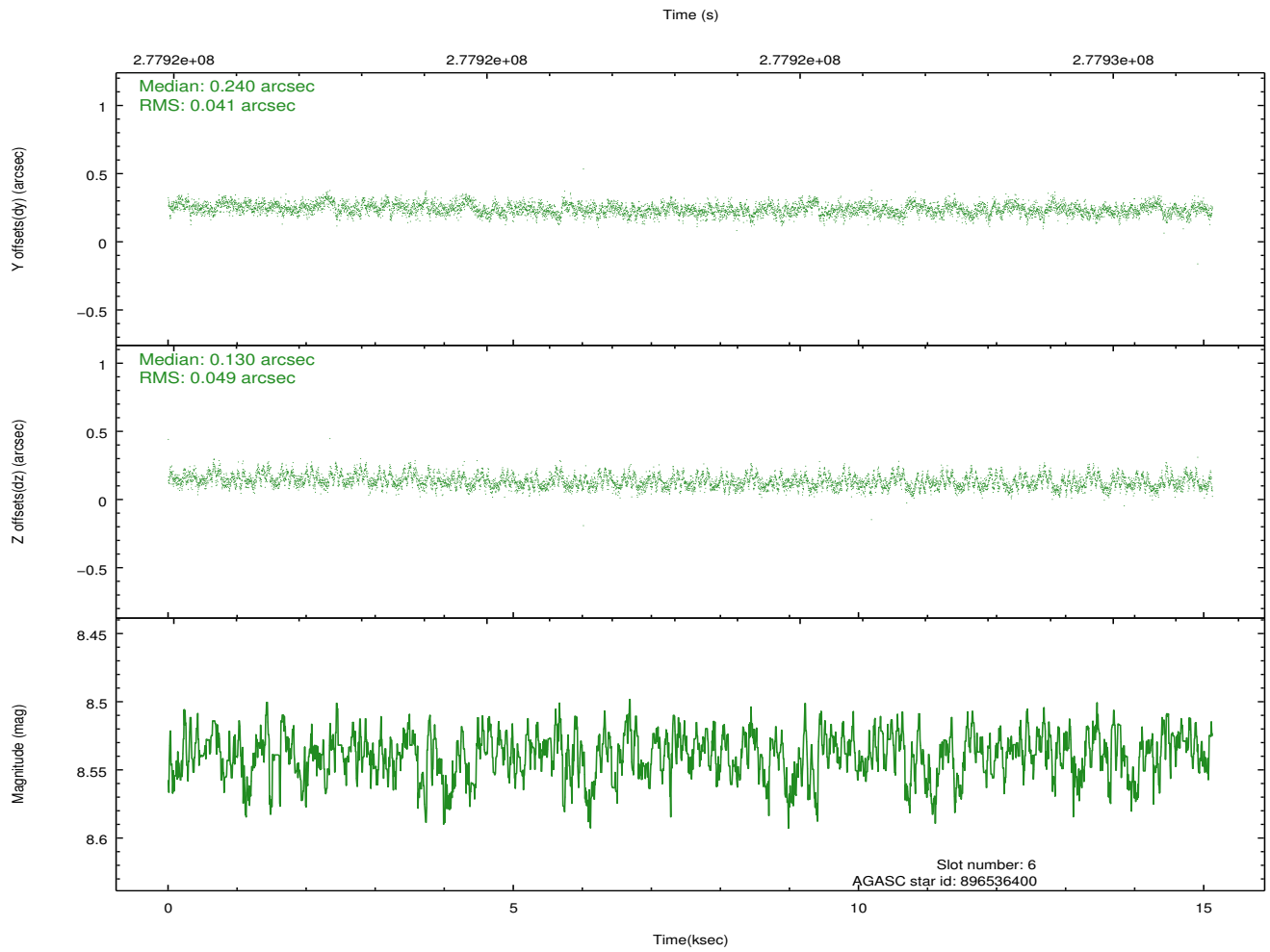
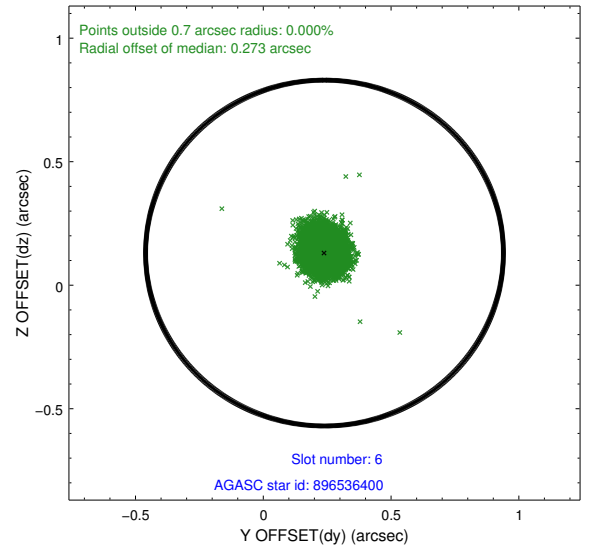
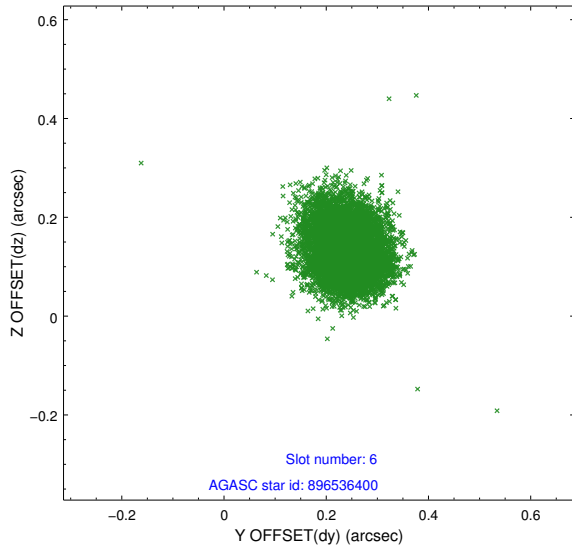
### 2.4.3 Slot 5



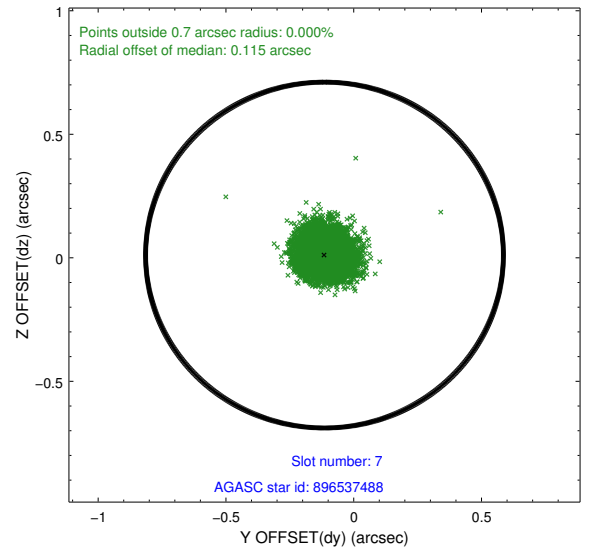
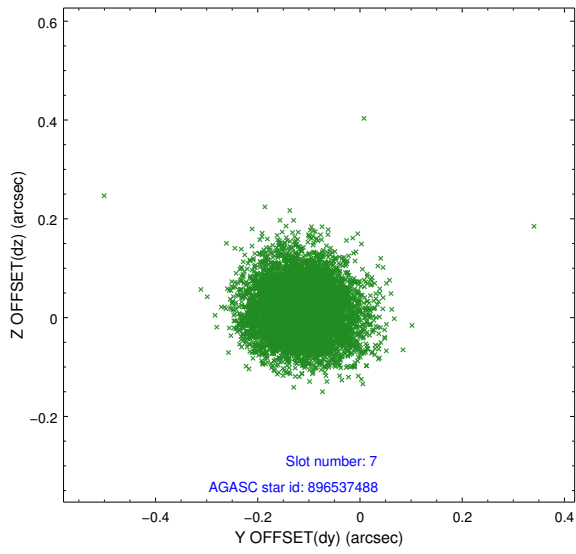
Time (s)



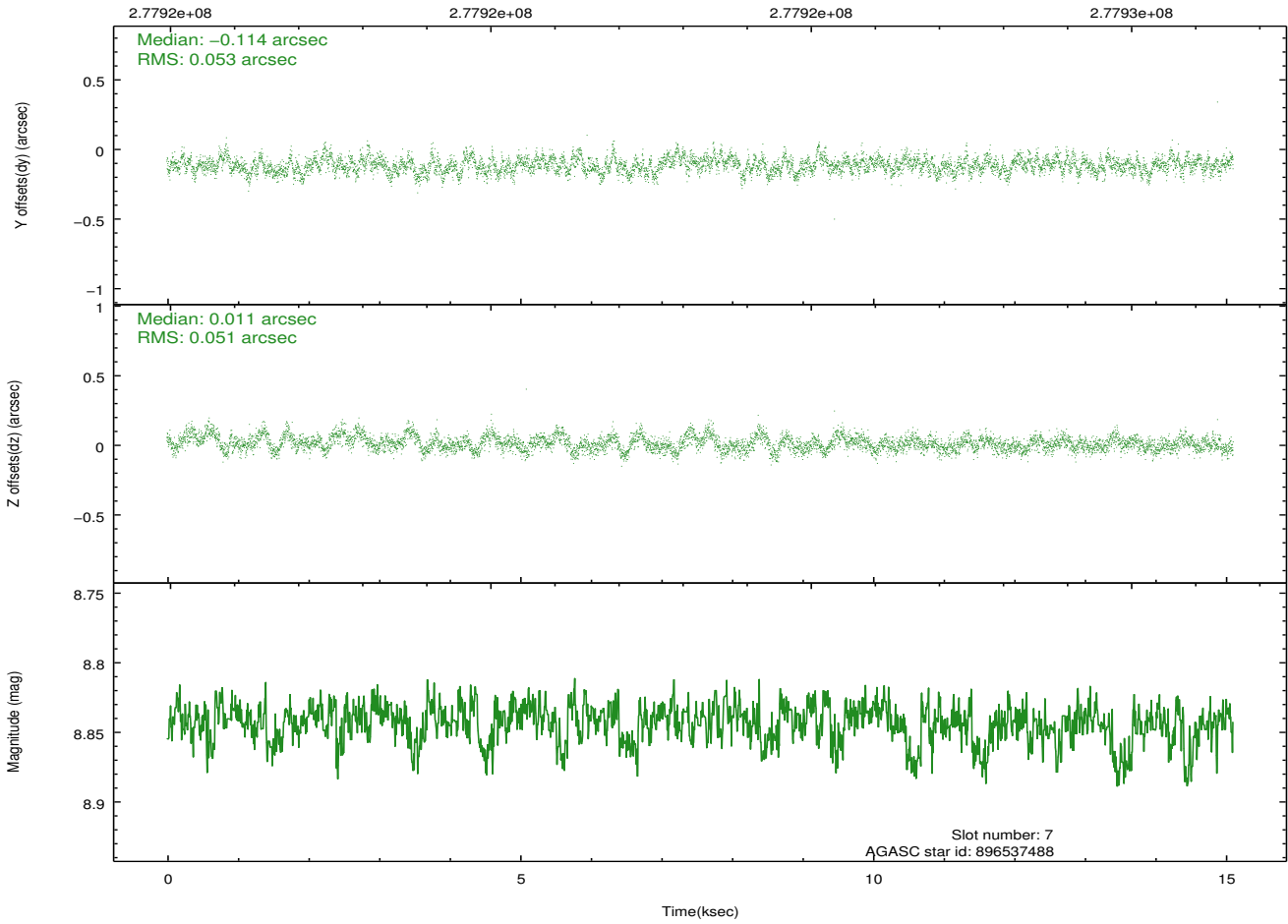
## 2.4.4 Slot 6



## 2.4.5 Slot 7

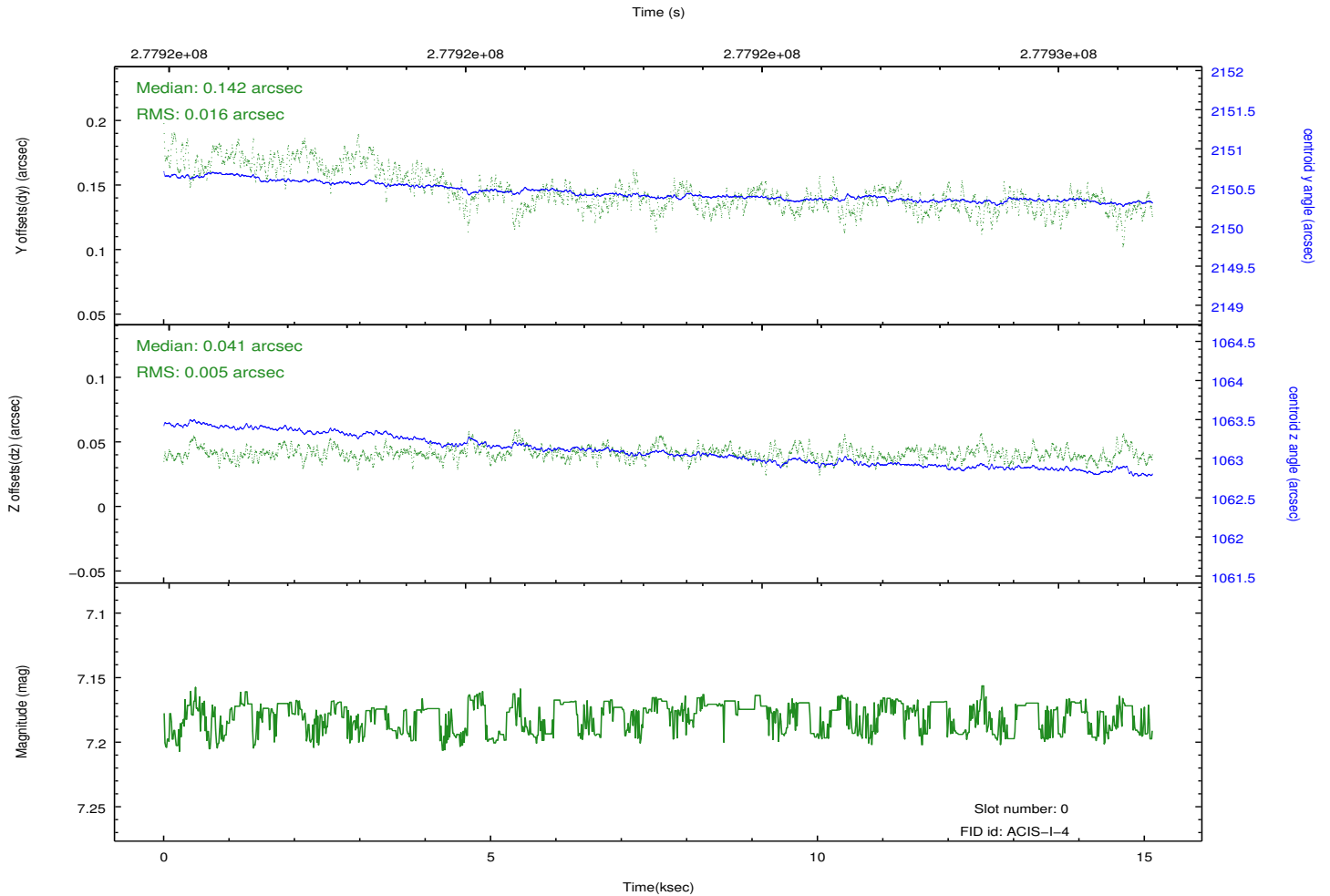
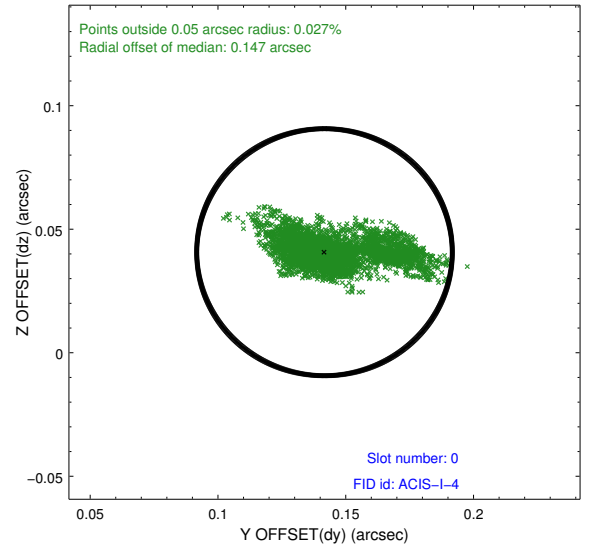
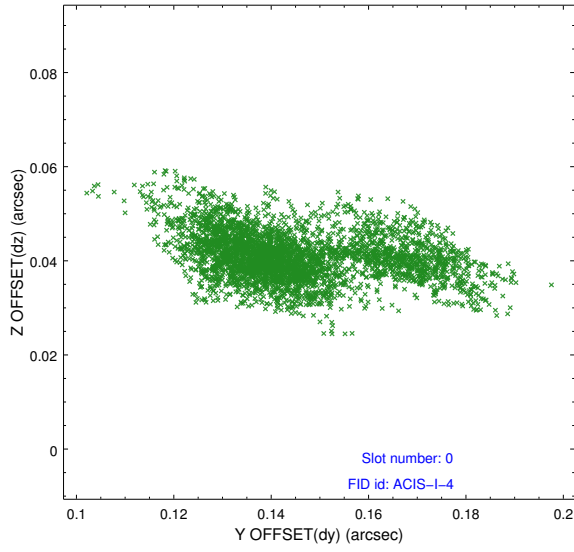


Time (s)

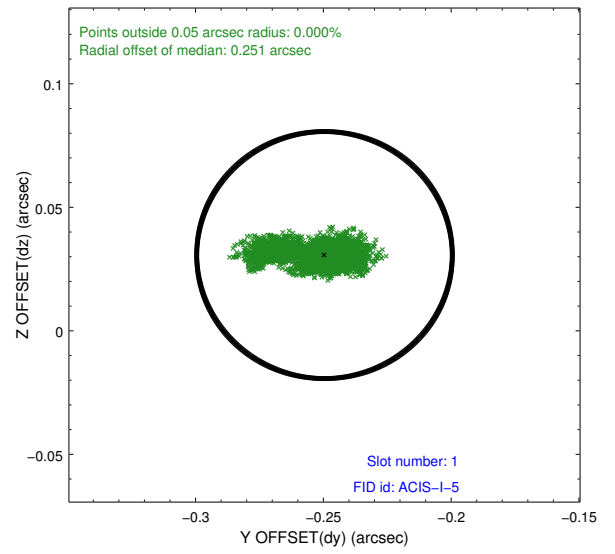
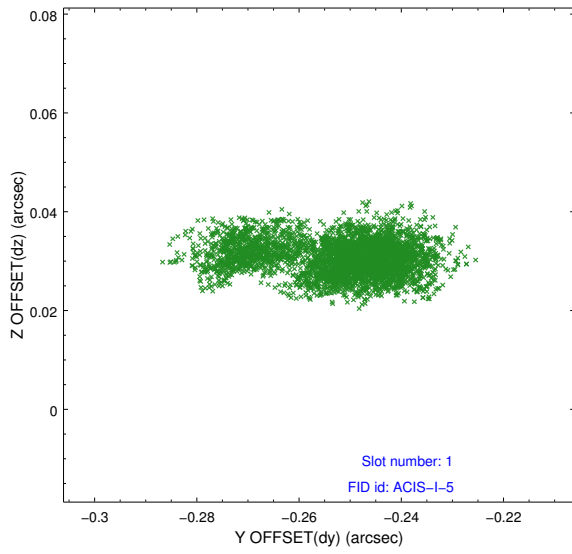


## 2.5 FID Slots

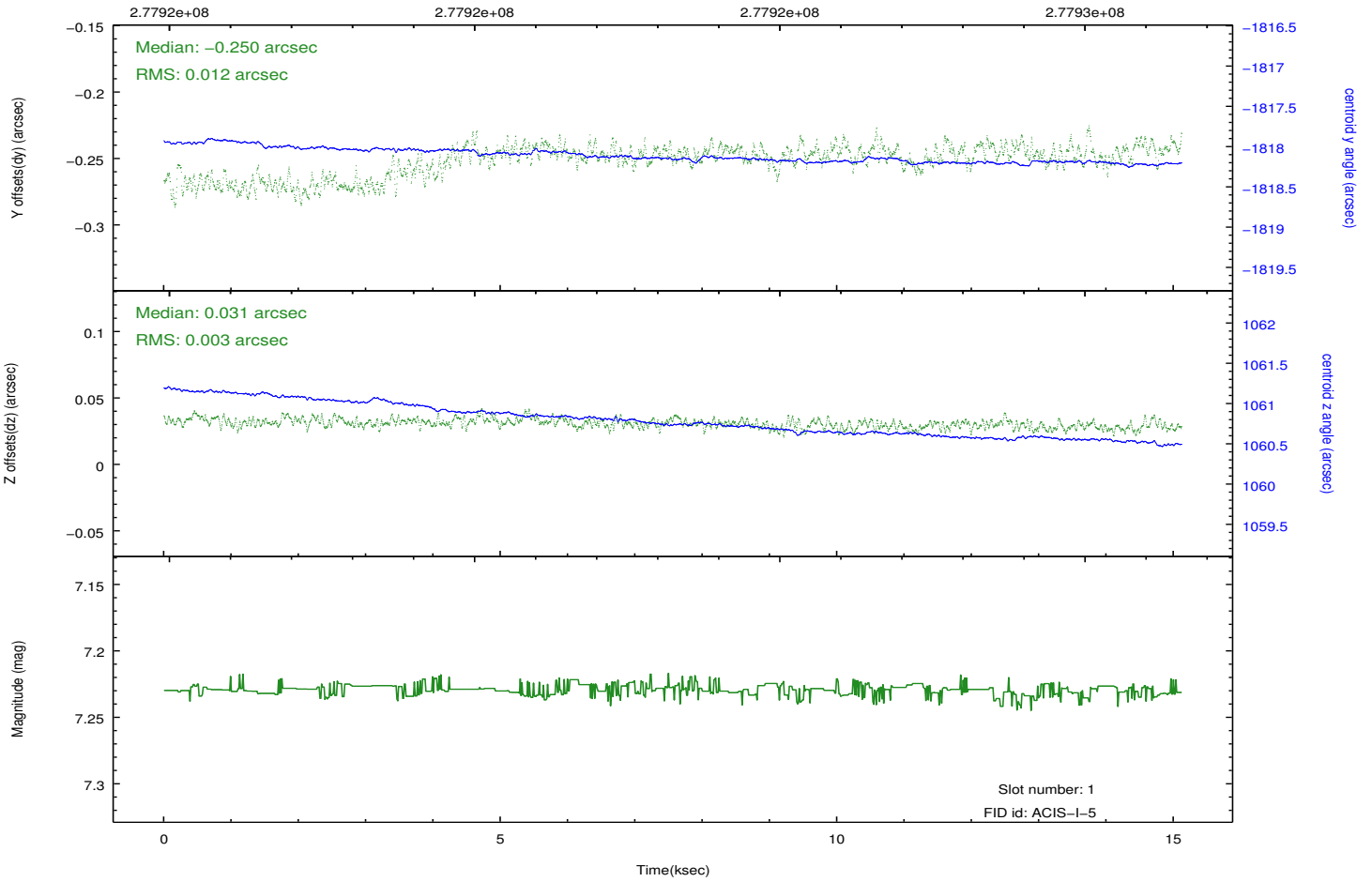
### 2.5.1 Slot 0



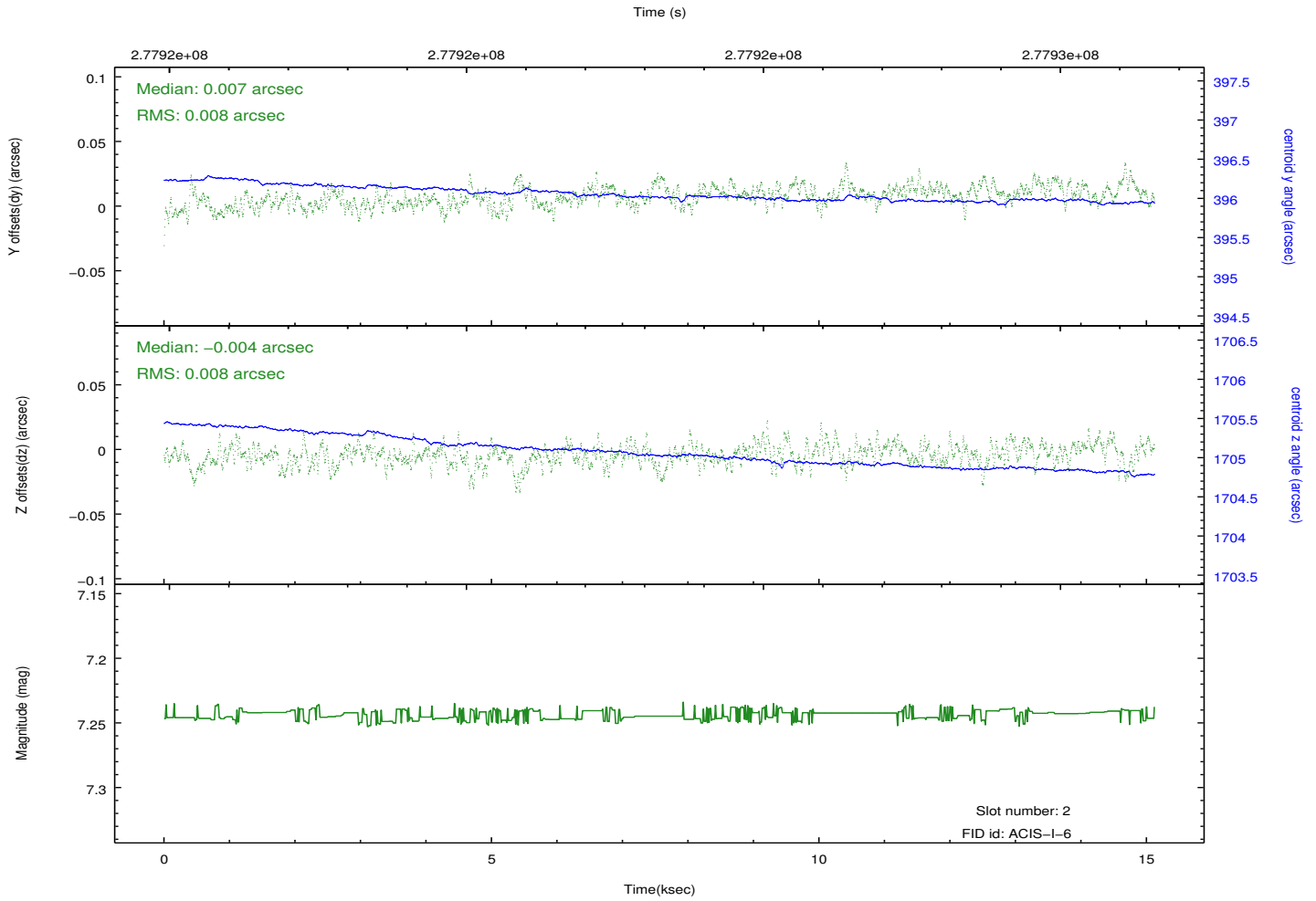
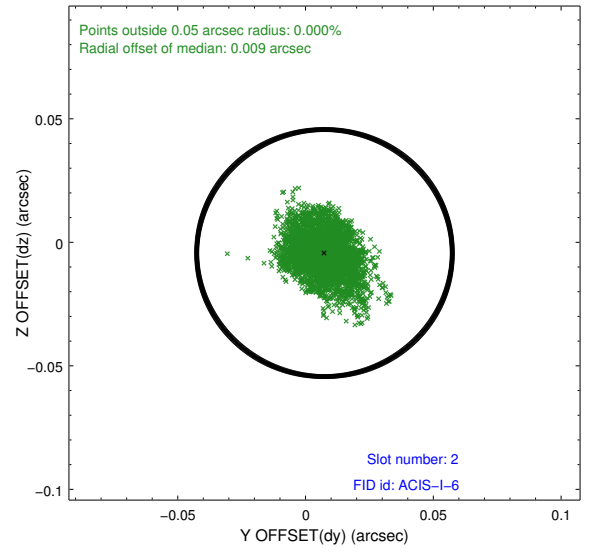
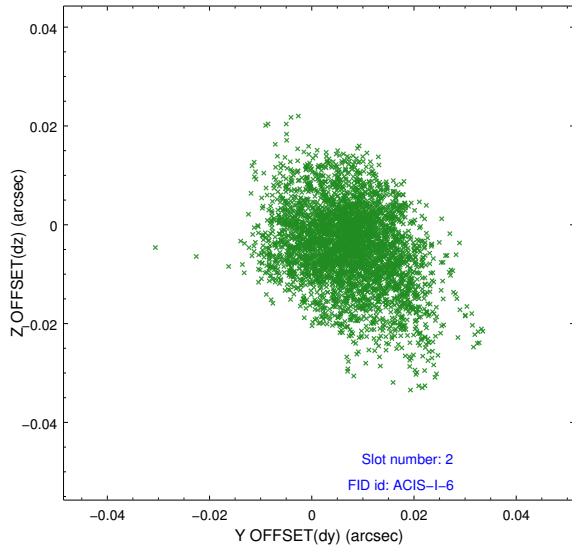
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.1218001

## A.2 Comments

Roll preference not met.