

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9070 - L2 Version 2  
Chandra X-Ray Center

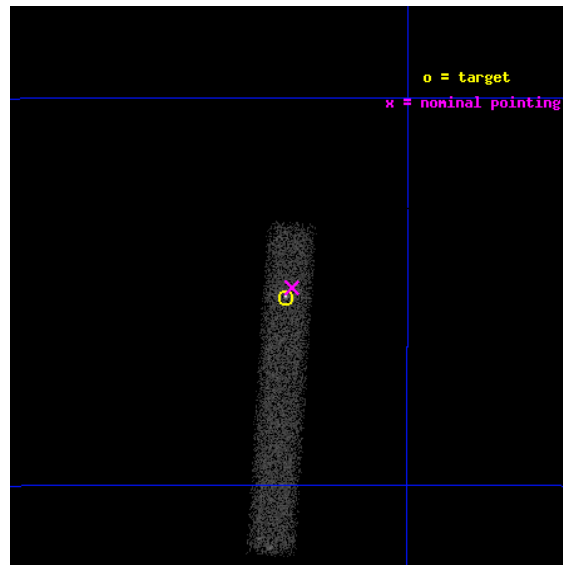
L2 Processing Date : May 22 2012

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# 1 Front

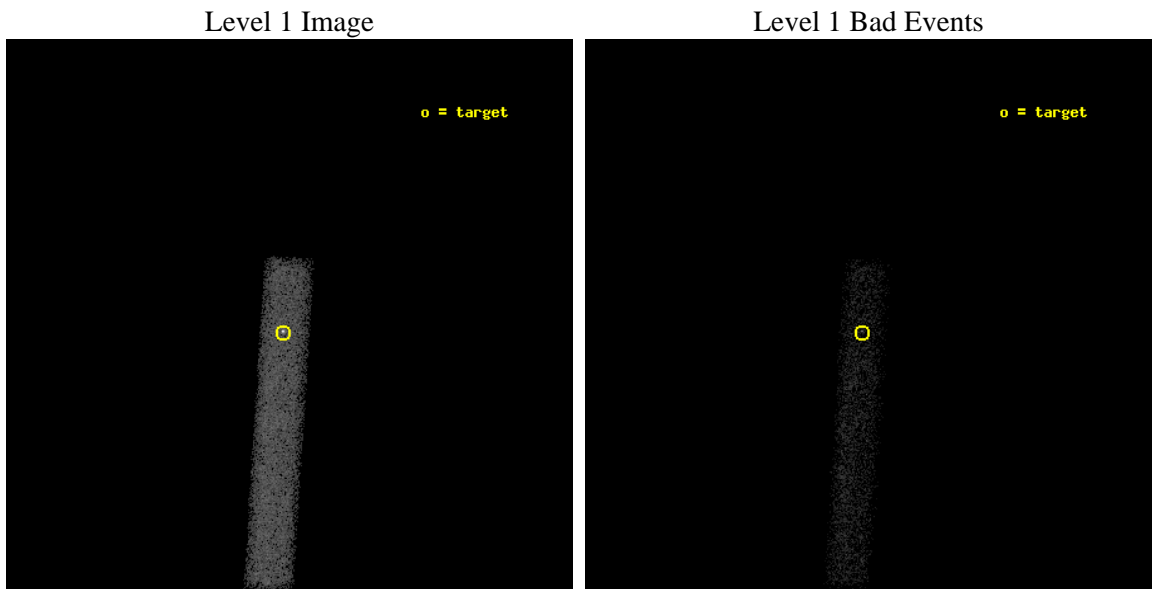
seq_num	400921	Sequence number
obs_id	9070	Observation id
title	Quasi-persistent neutron-star X-ray binaries in quiescence	Proposa
observer	Dr. Rudy Wijnands	Principal investigator
object	EXO 0748-676	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	117.140833	Observer's specified target RA [deg]
dec_targ	-67.7524	Observer's specified target Dec [deg]
ra_nom	117.13345204865	Nominal RA [deg]
dec_nom	-67.748430089168	Nominal Dec [deg]
roll_nom	93.649766749047	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15183.599094987	Sum of GTIs [s]
livetime	13770.722923079	Livetime [s]
ontime7	15183.599094987	Sum of GTIs [s]
l2events	15946	Number of level 2 events



## 2 OBI

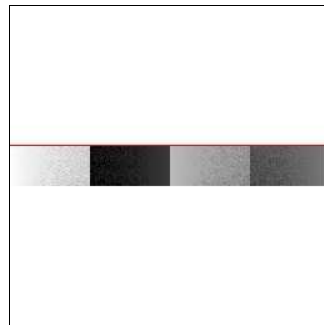
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	15183.599094987	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime7	15183.599094987	Sum of GTIs [s]
date	2012-05-22T21:34:56	Date and time of file creation	l1events	33790	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

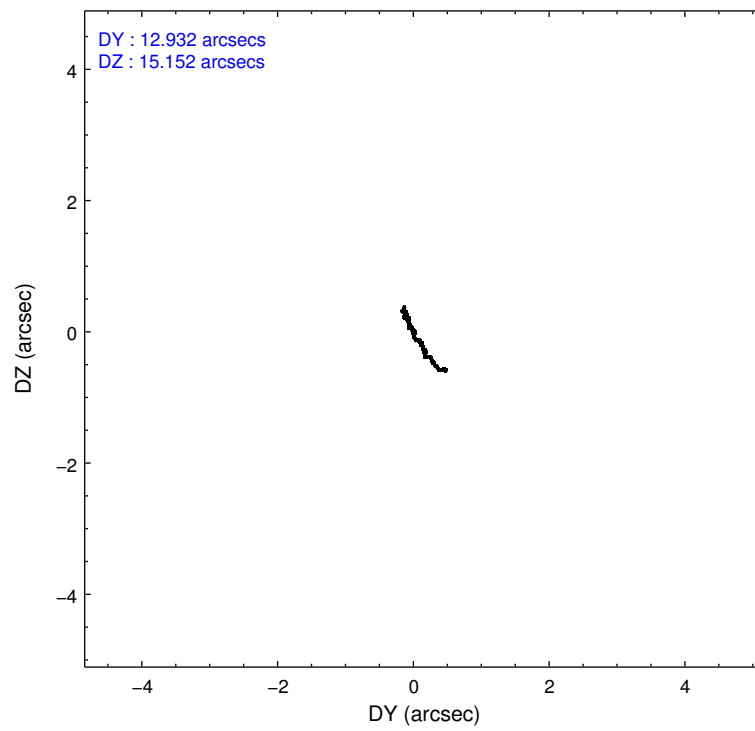
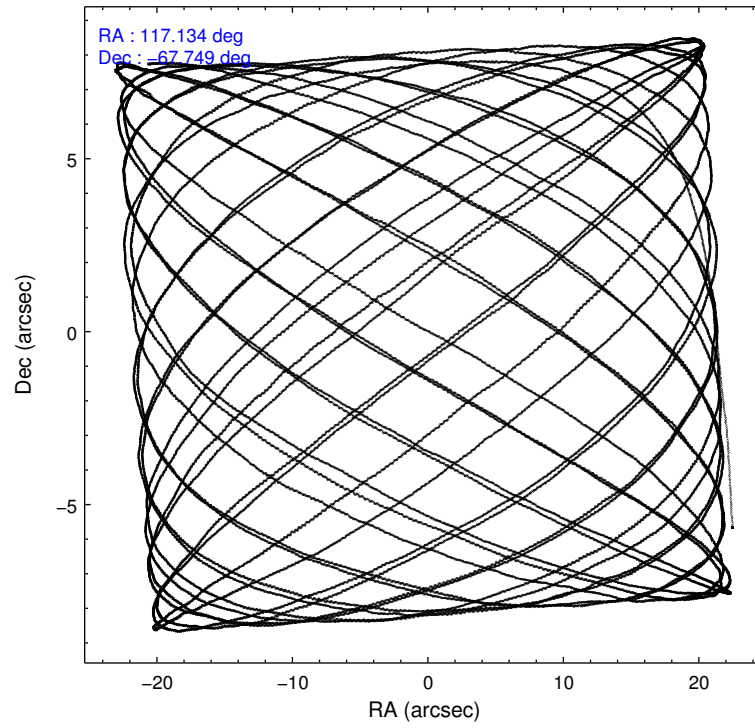
	<b>ccd 7</b>
level 1 events	33790
rejected events	17395
rejected %	<b>51%</b>

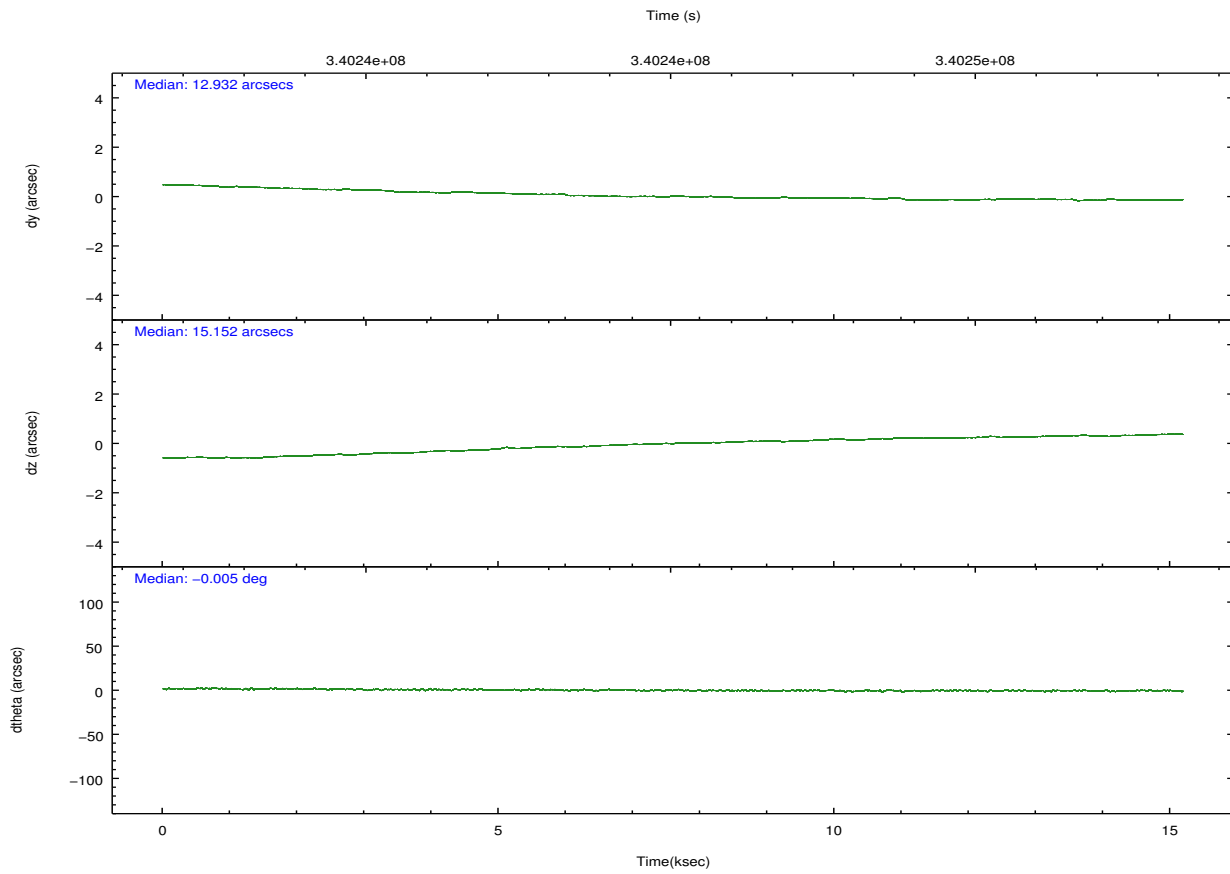
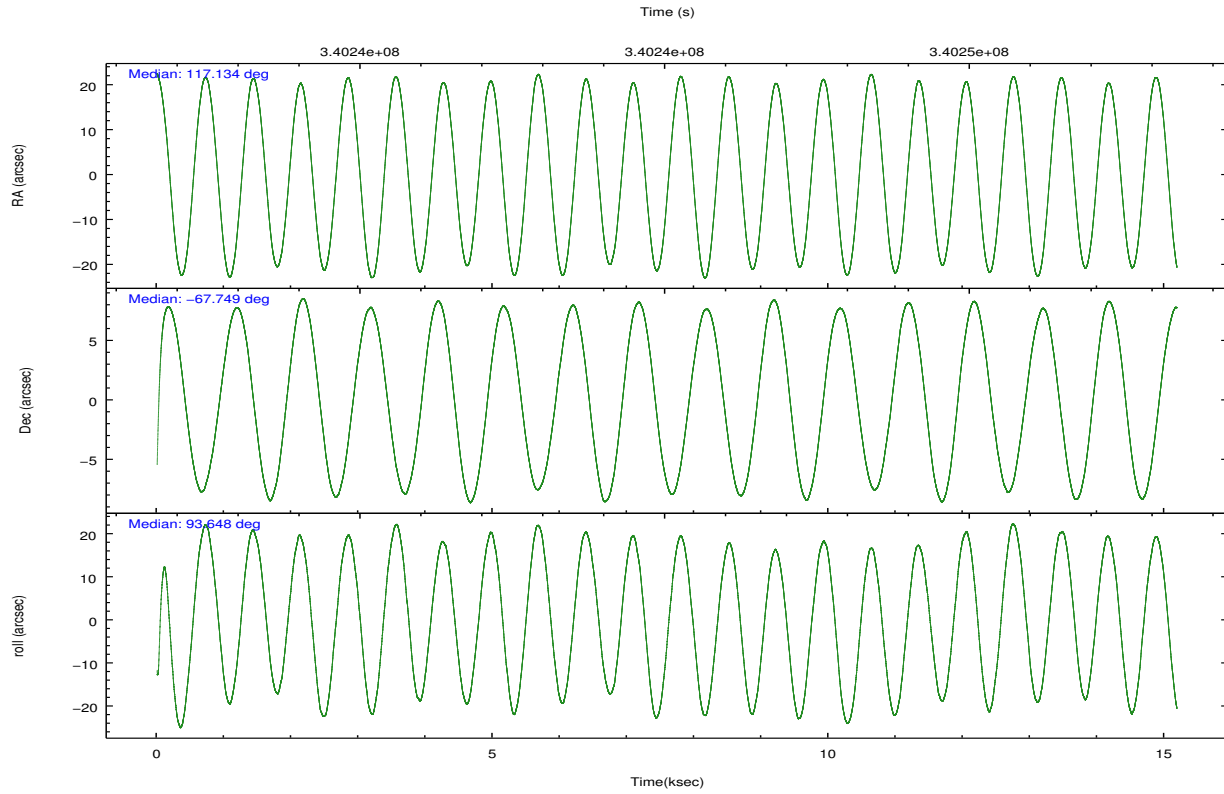
	<b>ccd 7</b>
grade 0 events	2390
	7%
grade 1 events	40
	0%
grade 2 events	3695
	10%
grade 3 events	2138
	6%
grade 4 events	2079
	6%
grade 5 events	2864
	8%
grade 6 events	7165
	21%
grade 7 events	13419
	39%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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
[deg] Pointing RA	117.174298	117.1334520486525	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-67.771001	-67.74843008916835	Subarray start row	449	449
[deg] Pointing Roll	93.530979	93.6497667490474	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	340237640.184000	340236542.8811			
Observation start date	2008-10-12T22:26:15	2008-10-12T22:09:02			
[s] Observation end time (MET)	340252640.184000	340253452.81943			
Observation end date	2008-10-13T02:36:15	2008-10-13T02:50:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



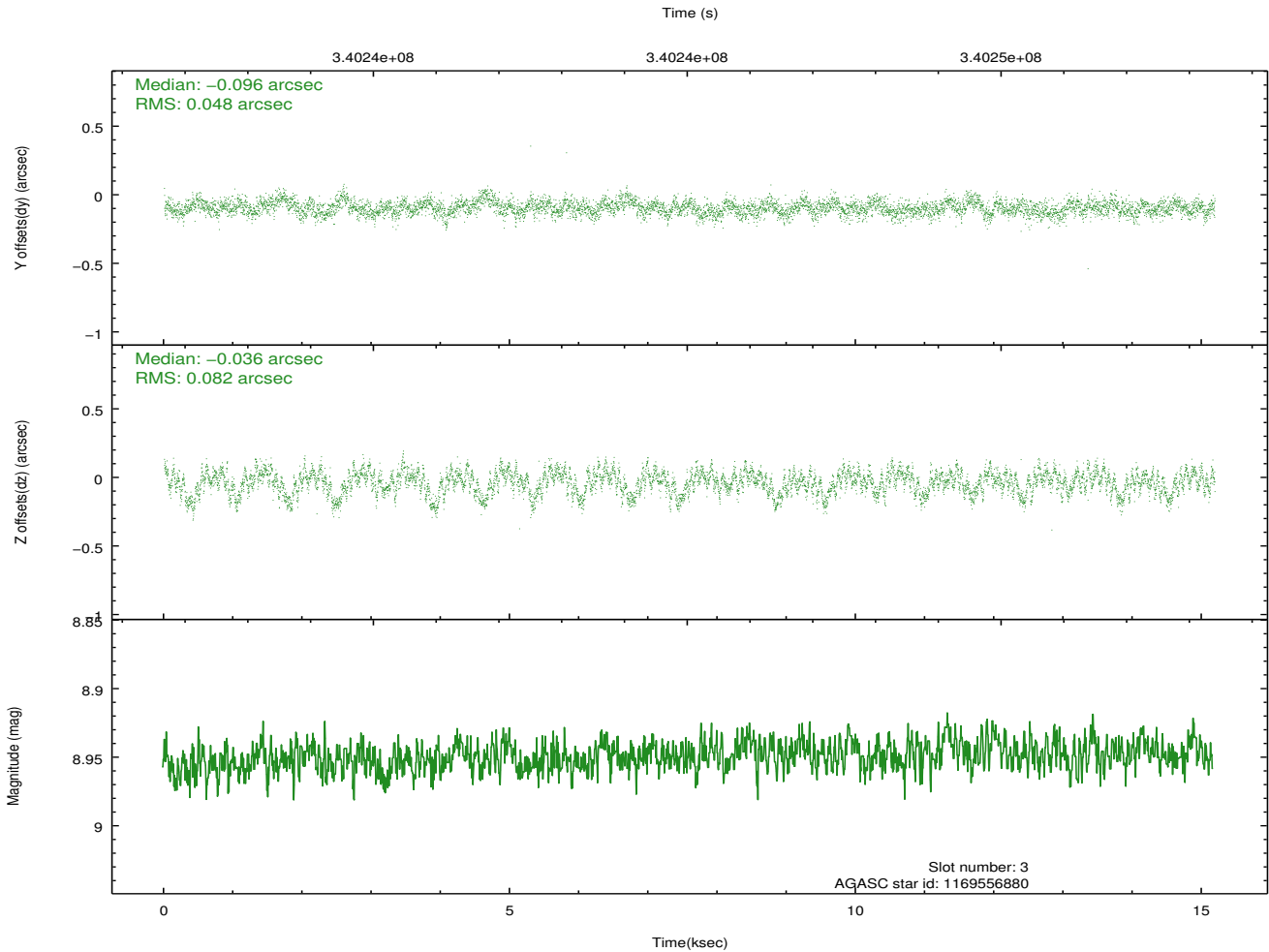
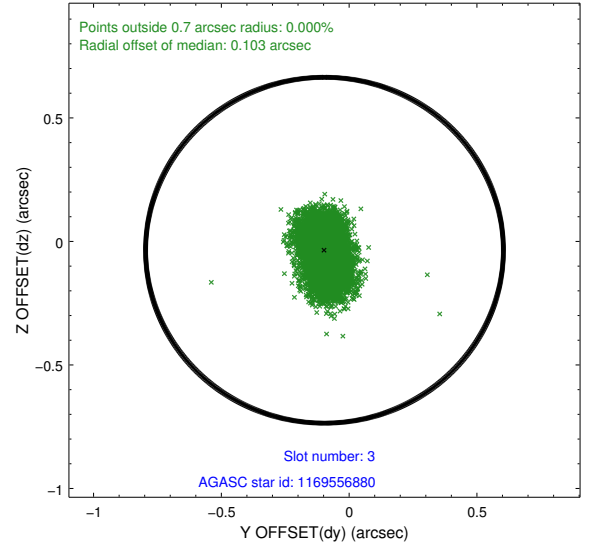
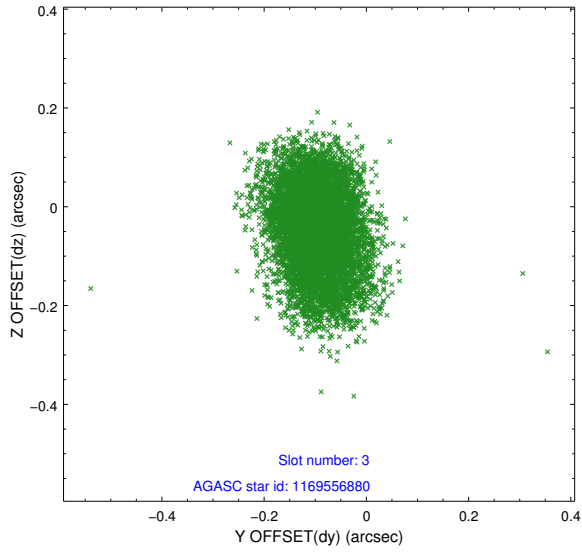


### Slot Statistics

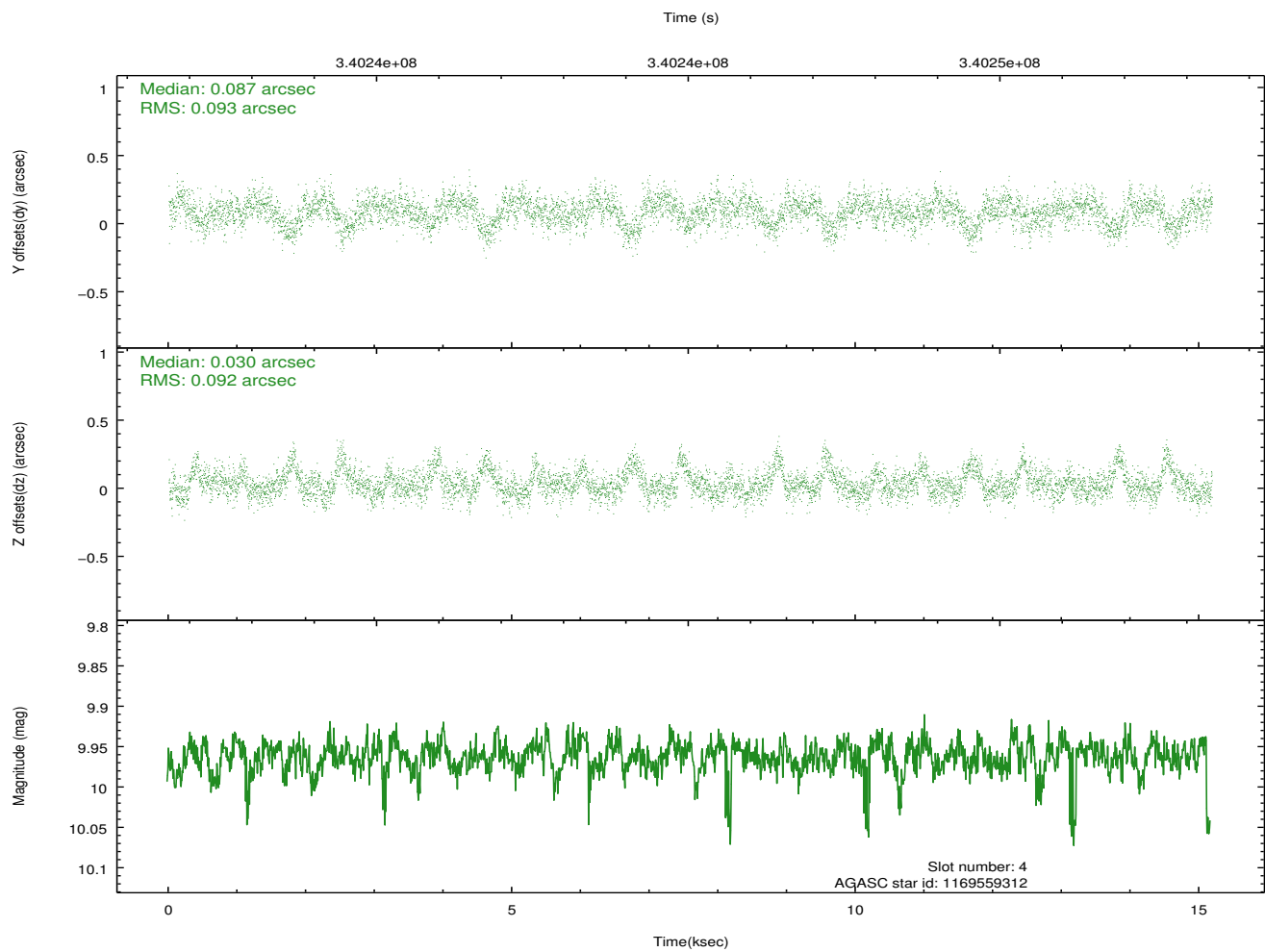
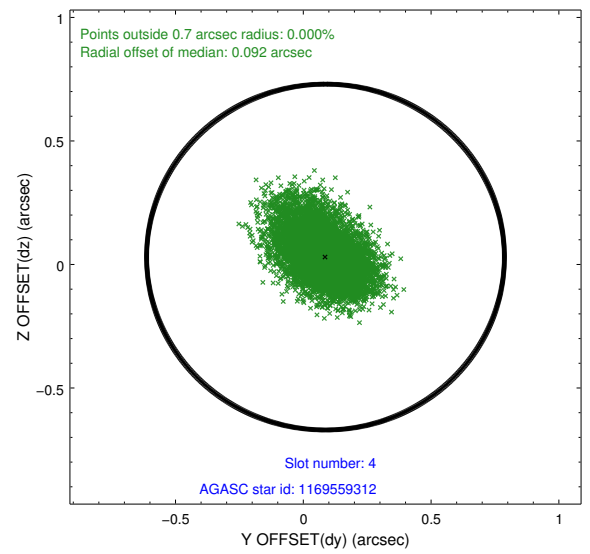
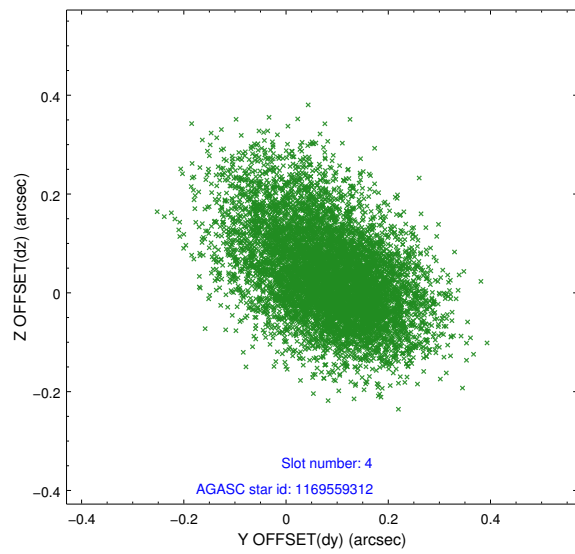
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	3704	-0.008	-0.010	0.008	0.015	0.000000	0.000000	-765.87	-1736.49
1	FID	ACIS-S-5	6.99	3704	-0.073	-0.007	0.012	0.022	0.000000	0.000000	-1819.23	165.15
2	FID	ACIS-S-6	7.09	3704	0.056	0.025	0.009	0.015	0.000000	0.000000	395.42	809.47
3	GUIDE	1169556880	8.95	7404	-0.096	-0.036	0.098	0.170	118.476472	-67.455164	1005.86	-1862.57
4	GUIDE	1169559312	9.96	7389	0.087	0.030	0.136	0.235	117.264973	-67.339053	1544.41	-220.89
5	GUIDE	1203258824	9.87	7393	-0.033	0.080	0.125	0.200	118.613315	-67.511932	786.64	-2033.17
6	GUIDE	1203245384	8.54	7401	-0.026	-0.024	0.065	0.105	117.096059	-68.354351	-2089.19	233.01
7	GUIDE	1203248984	9.66	7396	0.076	-0.051	0.117	0.183	117.212023	-68.341440	-2052.42	76.25

## 2.4 Star Slots

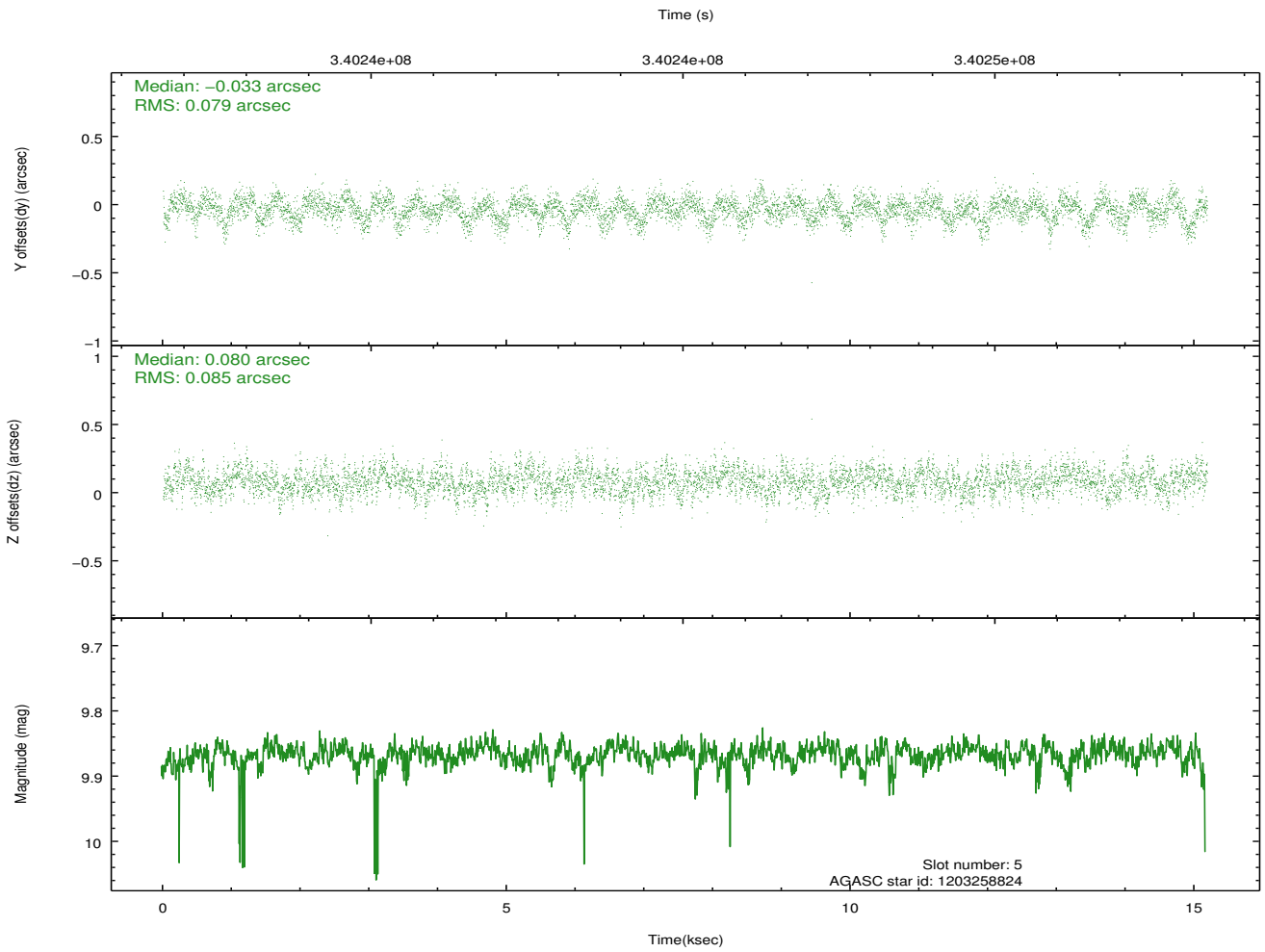
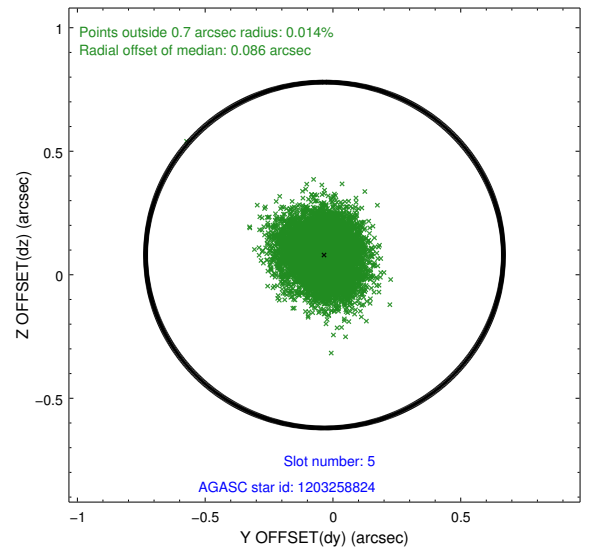
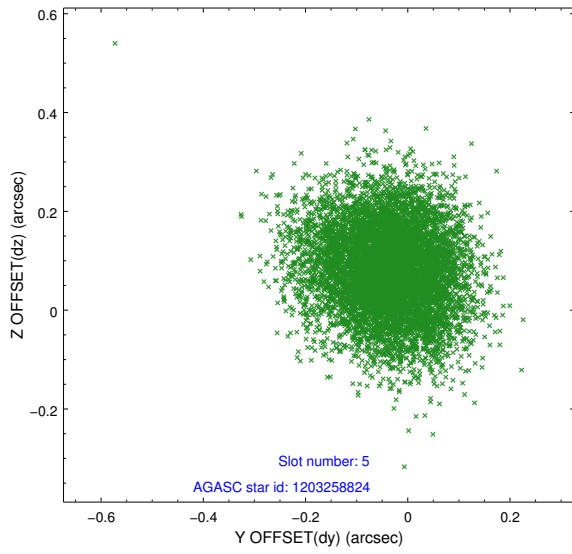
### 2.4.1 Slot 3



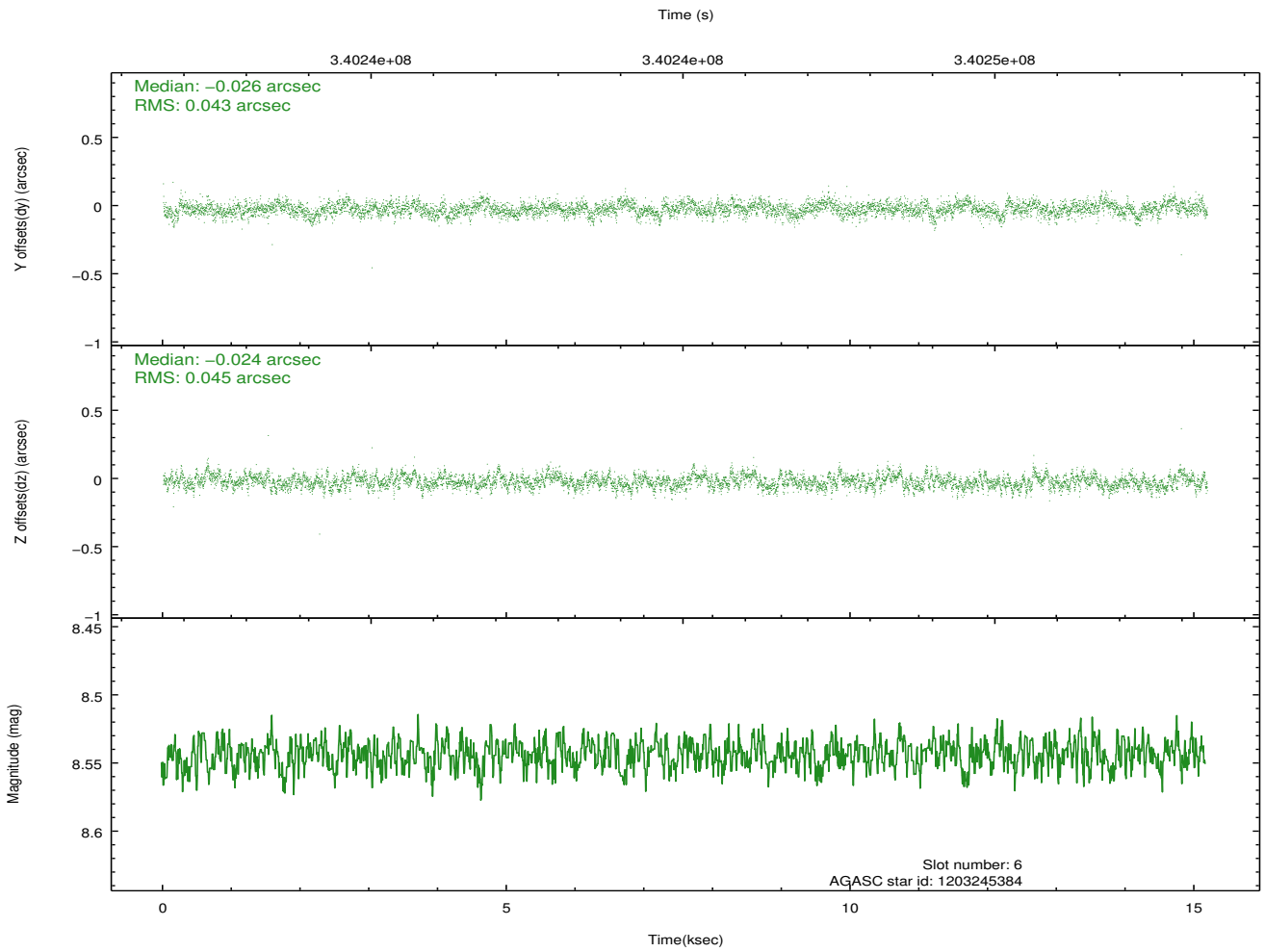
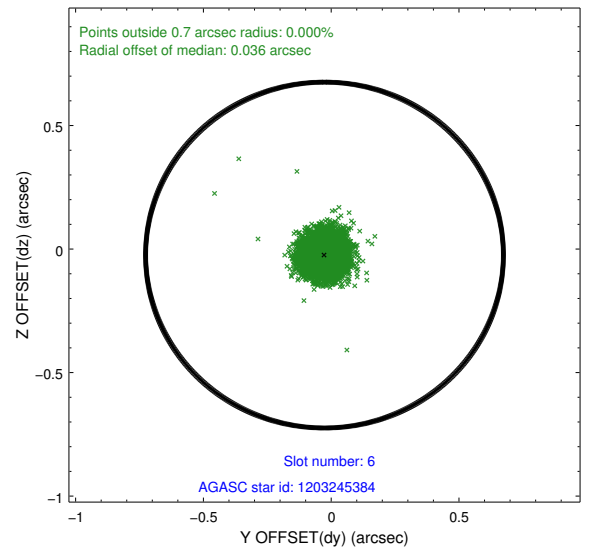
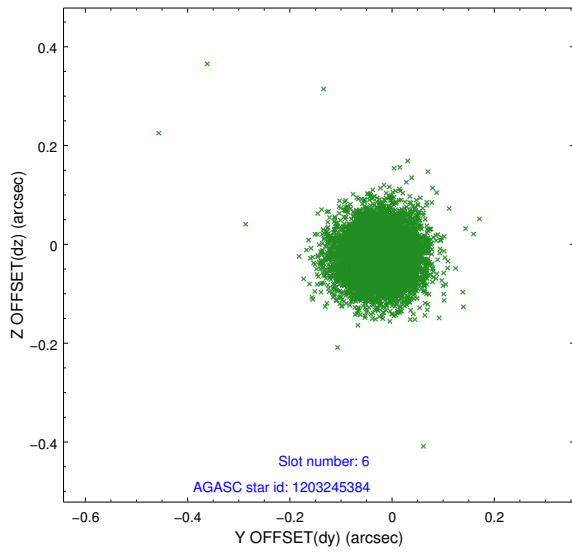
## 2.4.2 Slot 4



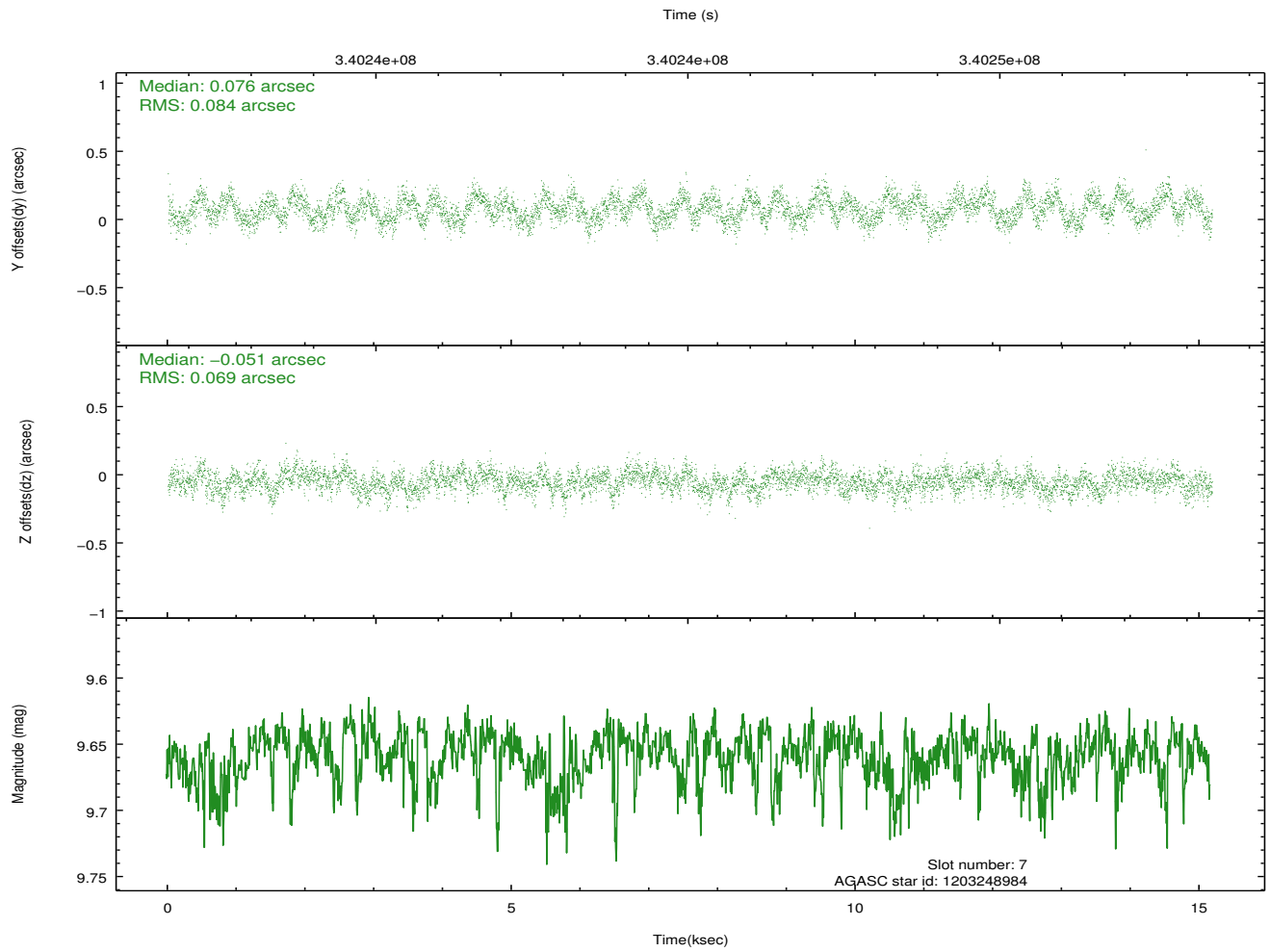
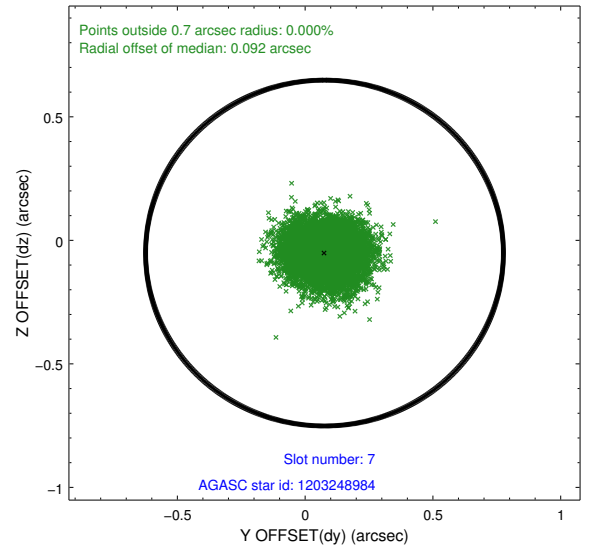
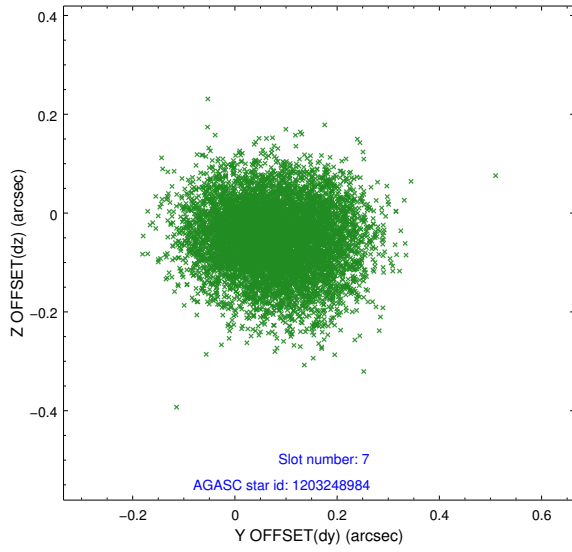
### 2.4.3 Slot 5



### 2.4.4 Slot 6

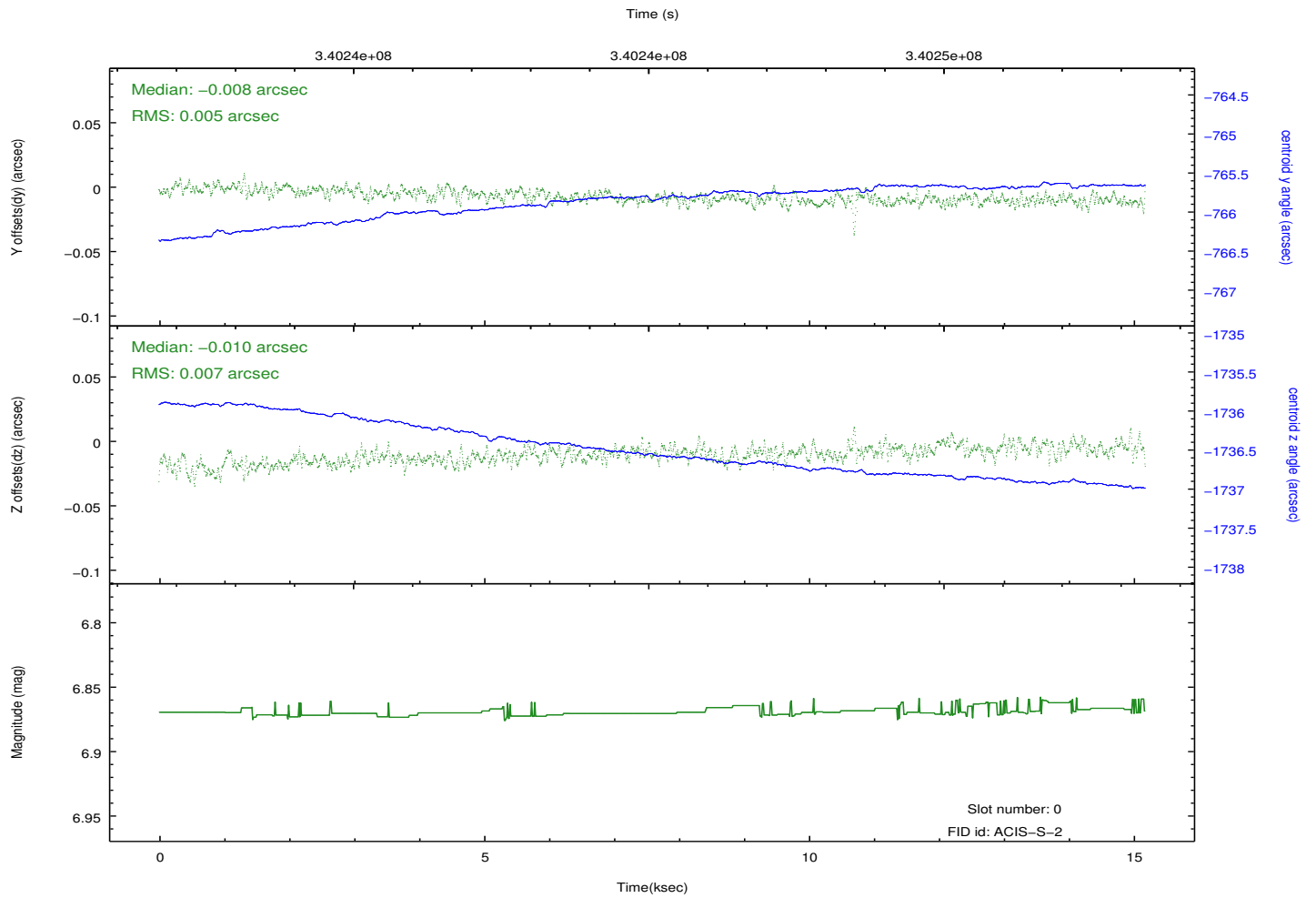
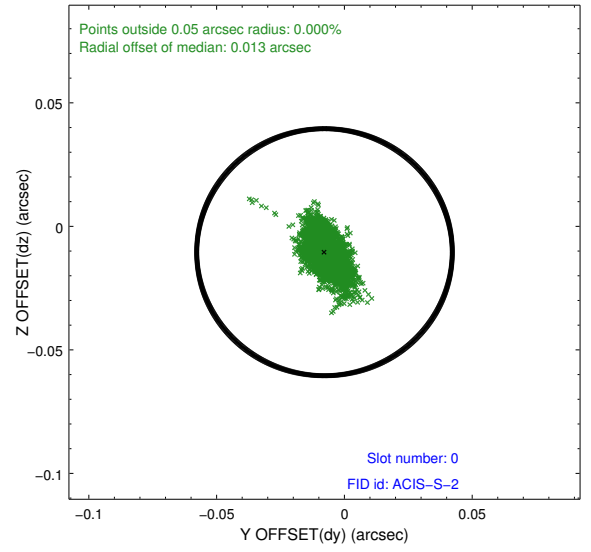
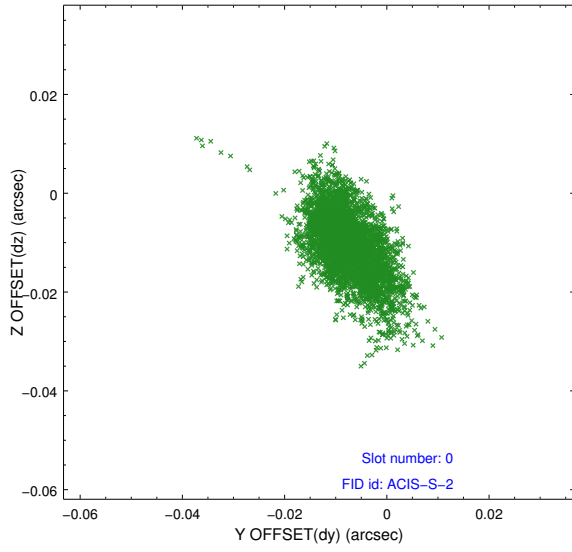


### 2.4.5 Slot 7

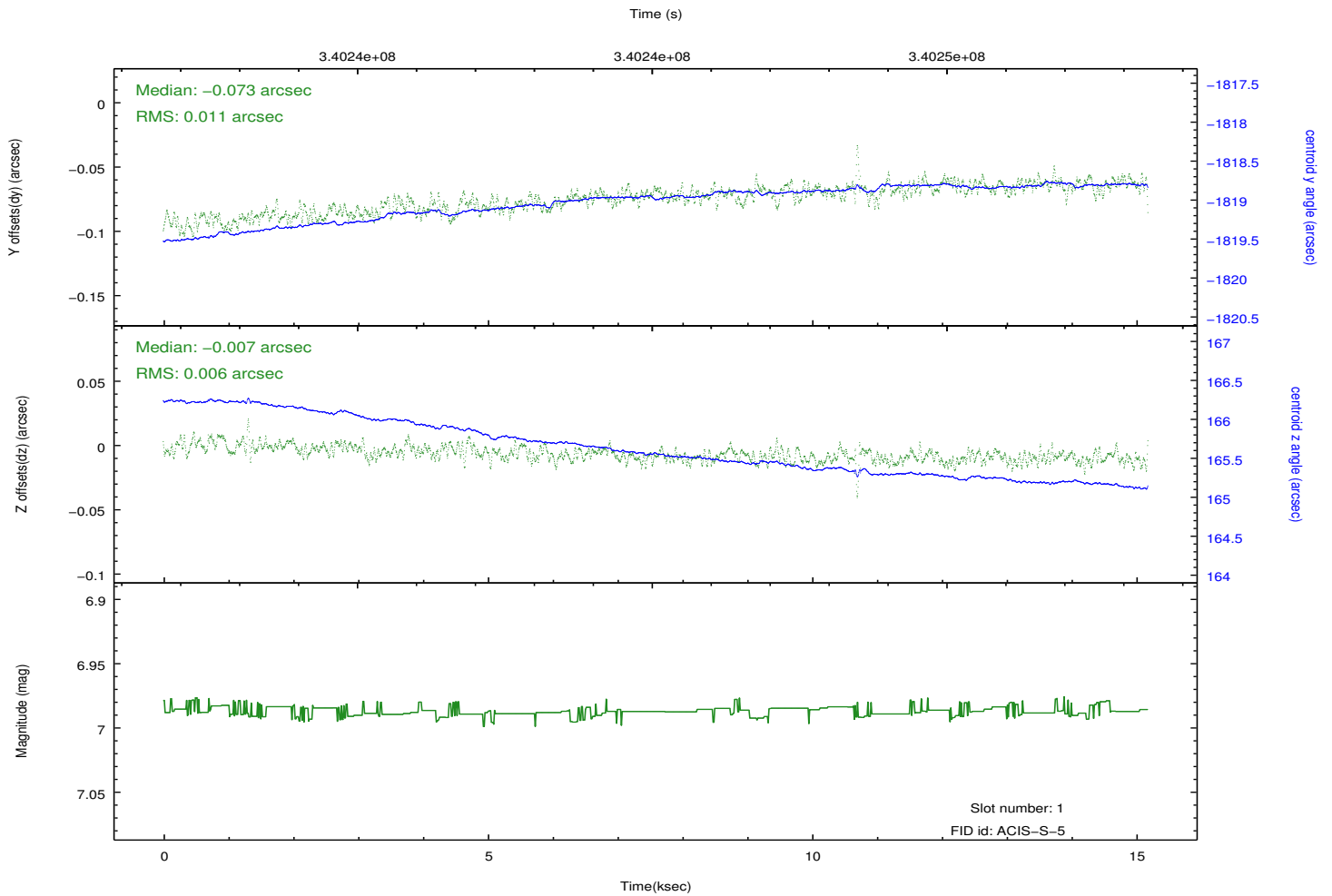
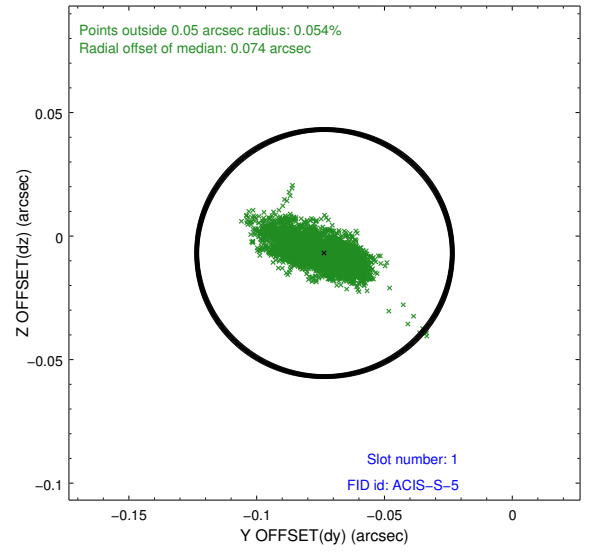
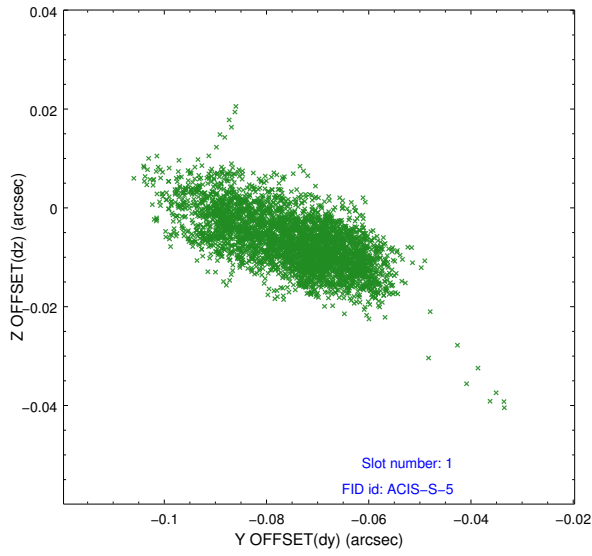


## 2.5 FID Slots

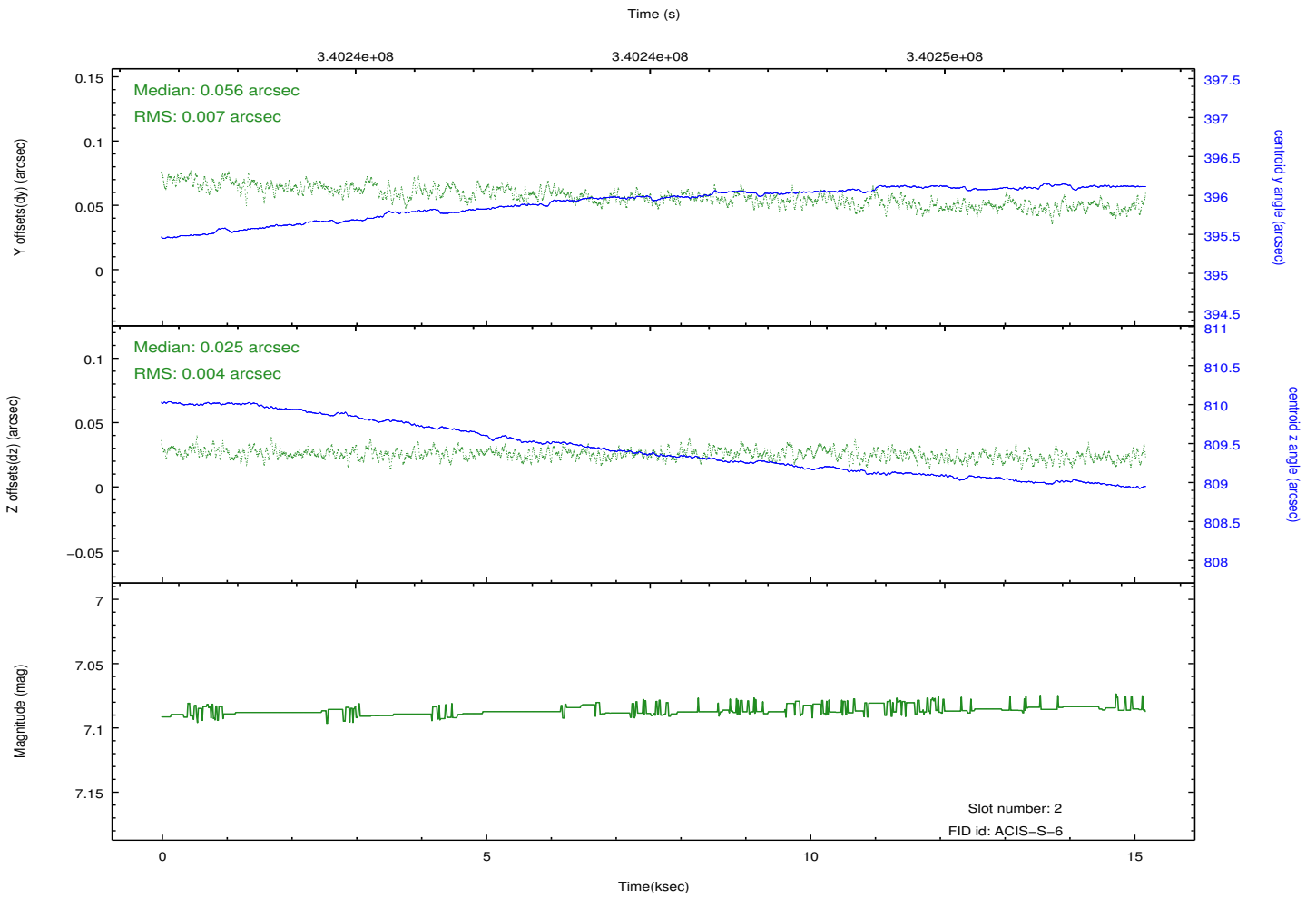
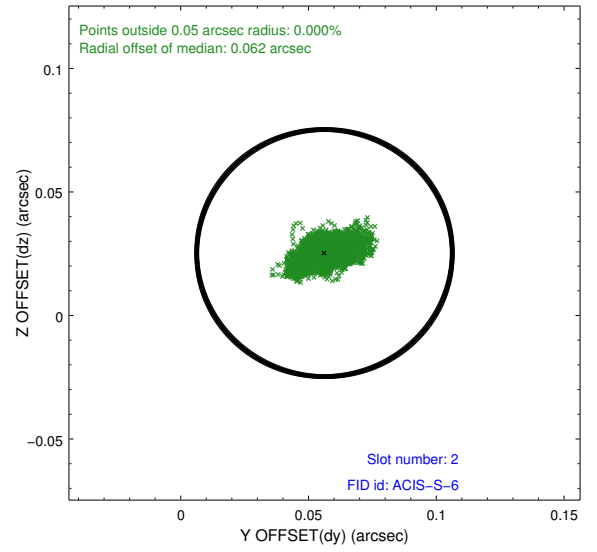
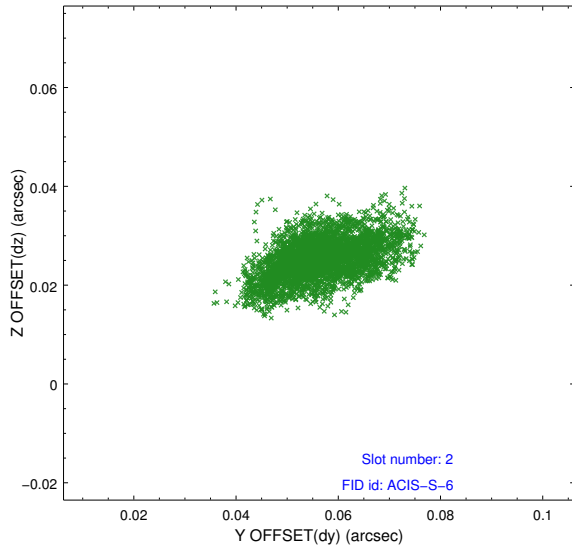
### 2.5.1 Slot 0



## 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)	2012.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.183599

## A.2 Comments