

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4873 - L2 Version 4  
Chandra X-Ray Center

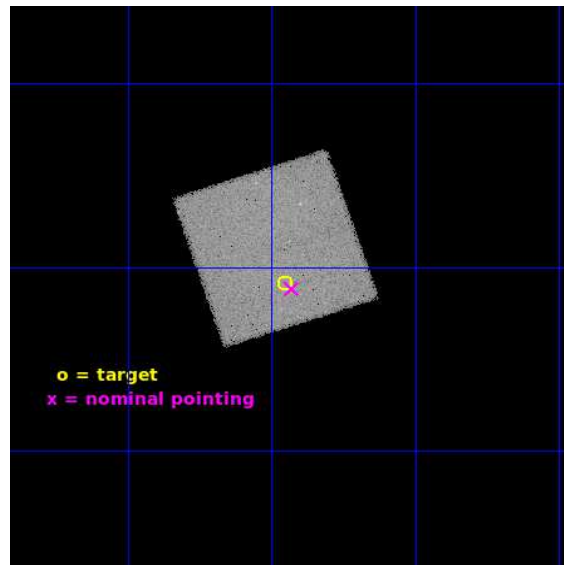
L2 Processing Date : Oct 7 2020

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# 1 Front

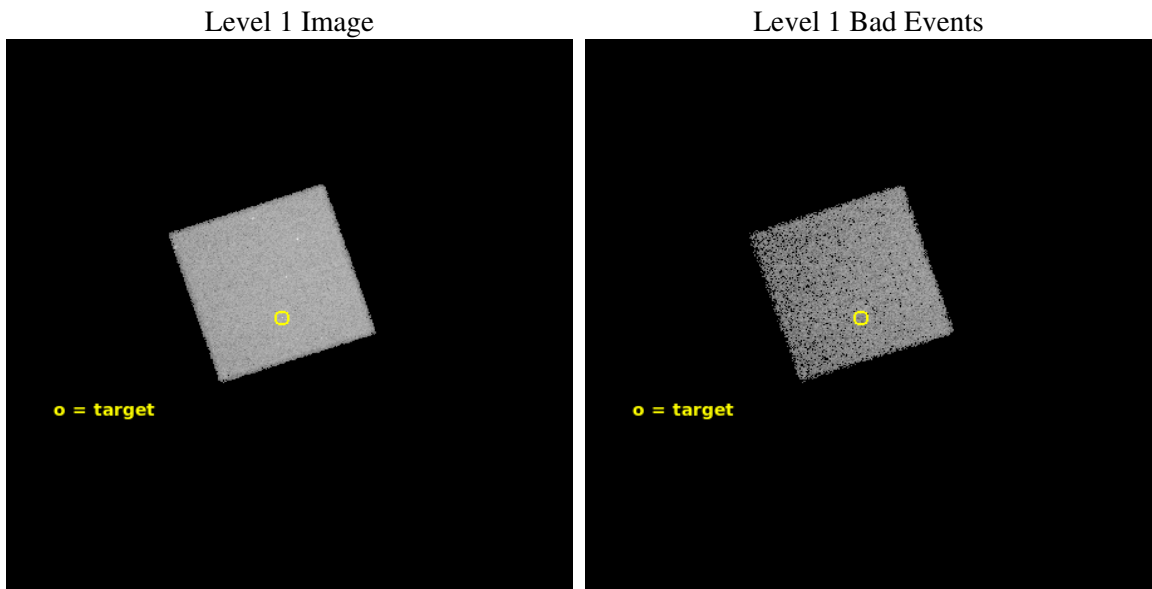
seq_num	700955	Sequence number
obs_id	4873	Observation id
title	UNCOVERING THE HIDDEN POPULATION OF BL LACS	Proposal title
observer	Dr Nicola Loaring	Principal investigator
object	2QZ J114327.3-005050	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	175.86375	Observer's specified target RA [deg]
dec_targ	-0.847389	Observer's specified target Dec [deg]
ra_nom	175.85737971943	Nominal RA [deg]
dec_nom	-0.8528812342416	Nominal Dec [deg]
roll_nom	251.47070221882	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14330.959009707	Sum of GTIs [s]
livetime	14137.557226844	Livetime [s]
ontime7	14330.959009707	Sum of GTIs [s]
l2events	102505	Number of level 2 events



## 2 OBI

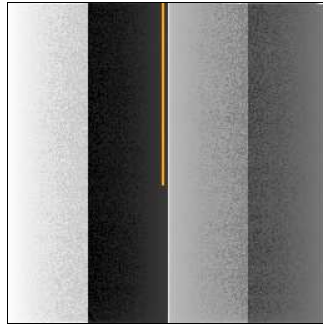
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14161.250000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14330.959009707	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	14330.959009707	Sum of GTIs [s]
date	2020-10-07T18:53:31	Date and time of file creation	l1events	204378	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

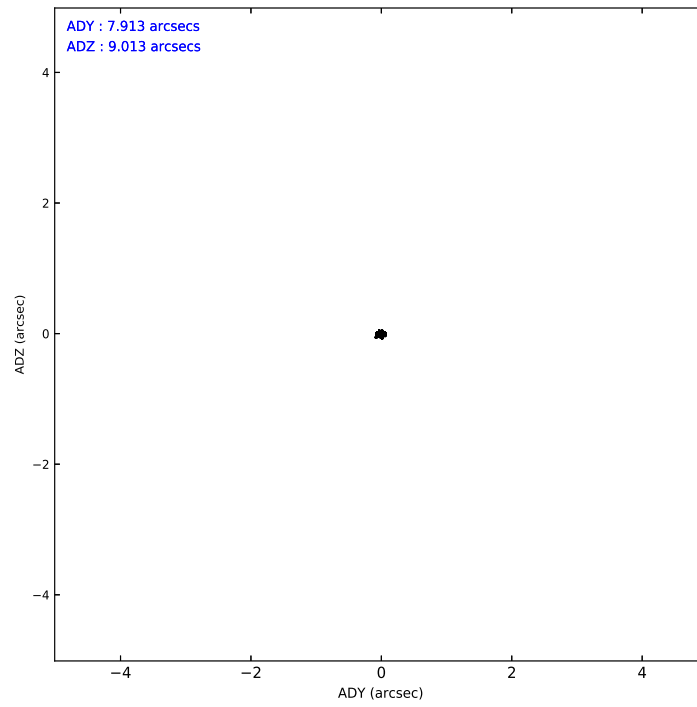
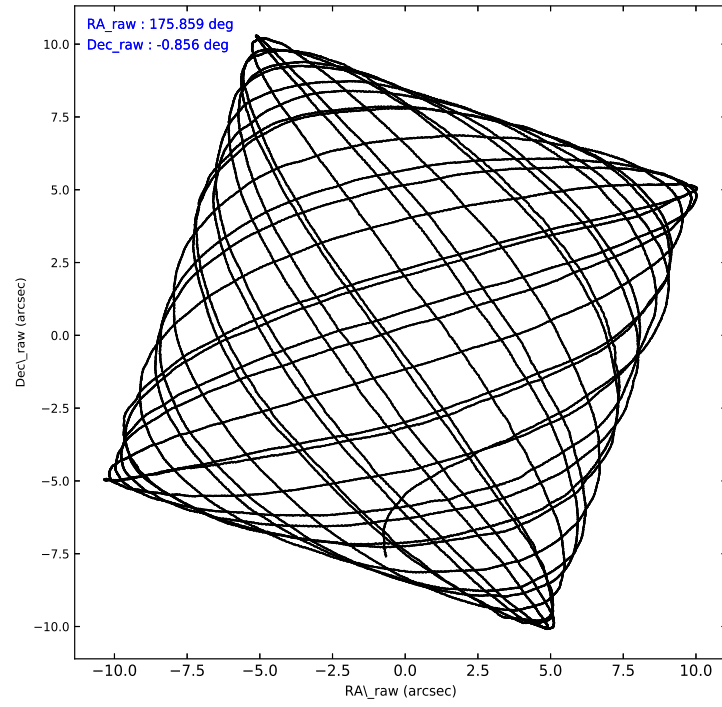
	<b>ccd 7</b>
level 1 events	204378
rejected events	99429
rejected %	48%

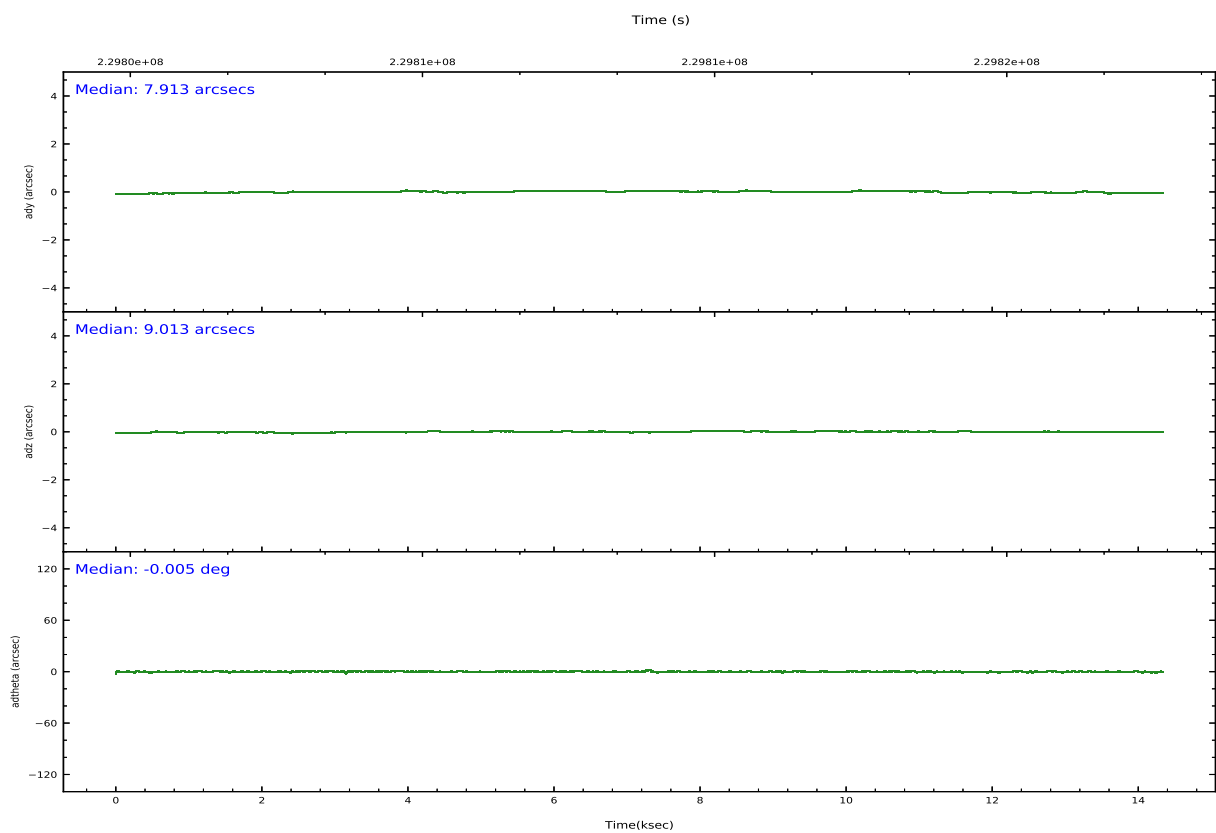
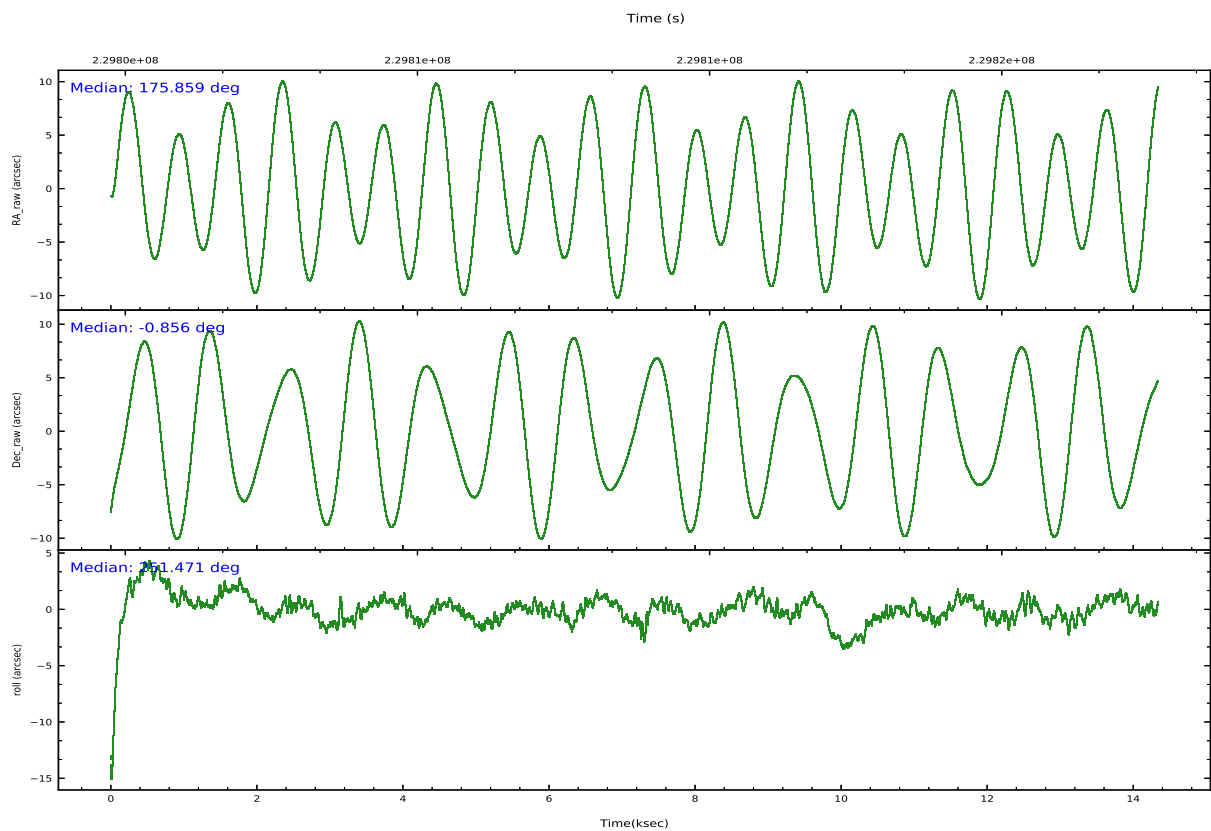
	<b>ccd 7</b>
grade 0 events	10902
	5%
grade 1 events	151
	0%
grade 2 events	19885
	9%
grade 3 events	8547
	4%
grade 4 events	8391
	4%
grade 5 events	15064
	7%
grade 6 events	62755
	30%
grade 7 events	78683
	38%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	175.853335	175.85737971943	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.829262	-0.8528812342416	Alternating exposures requested	N	N
[deg] Pointing Roll	251.313894	251.47070221882	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	229803981.184000	229802609.42634			
Observation start date	2005-04-13T18:25:17	2005-04-13T18:03:29			
[s] Observation end time (MET)	229818142.184000	229818366.75205			
Observation end date	2005-04-13T22:21:18	2005-04-13T22:26:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect



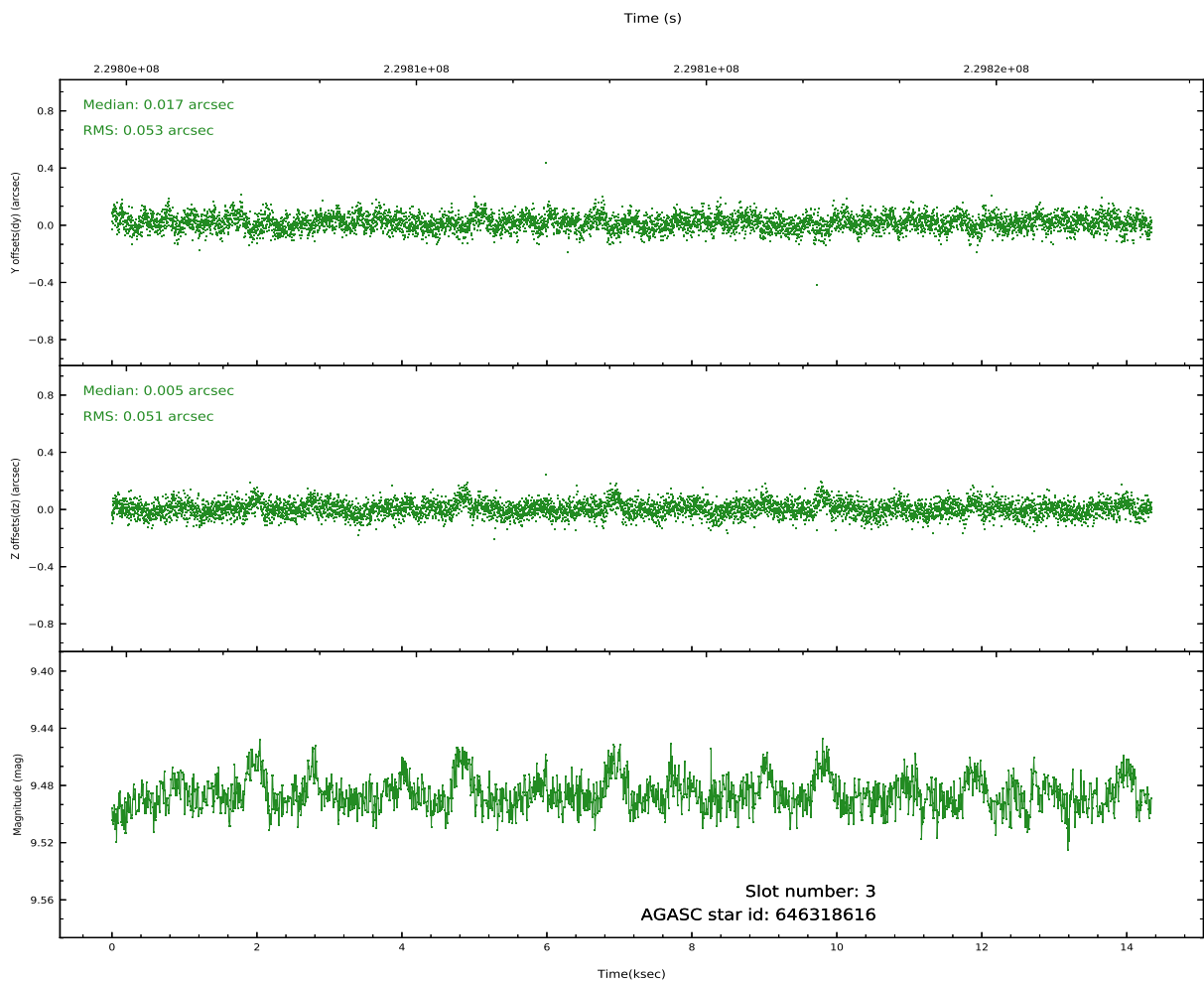
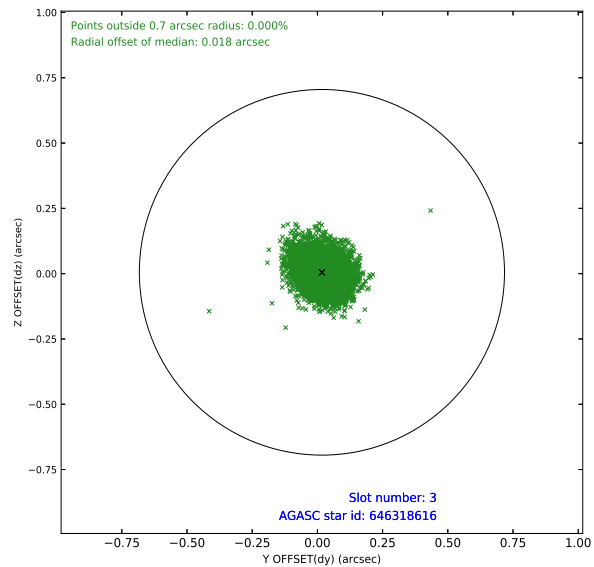
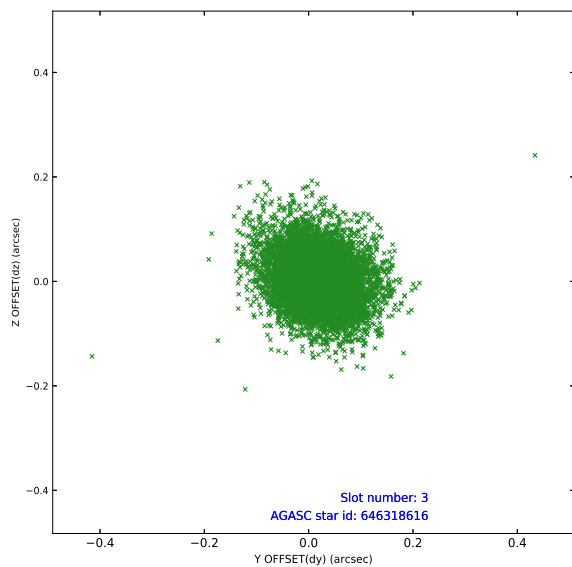


Slot Statistics

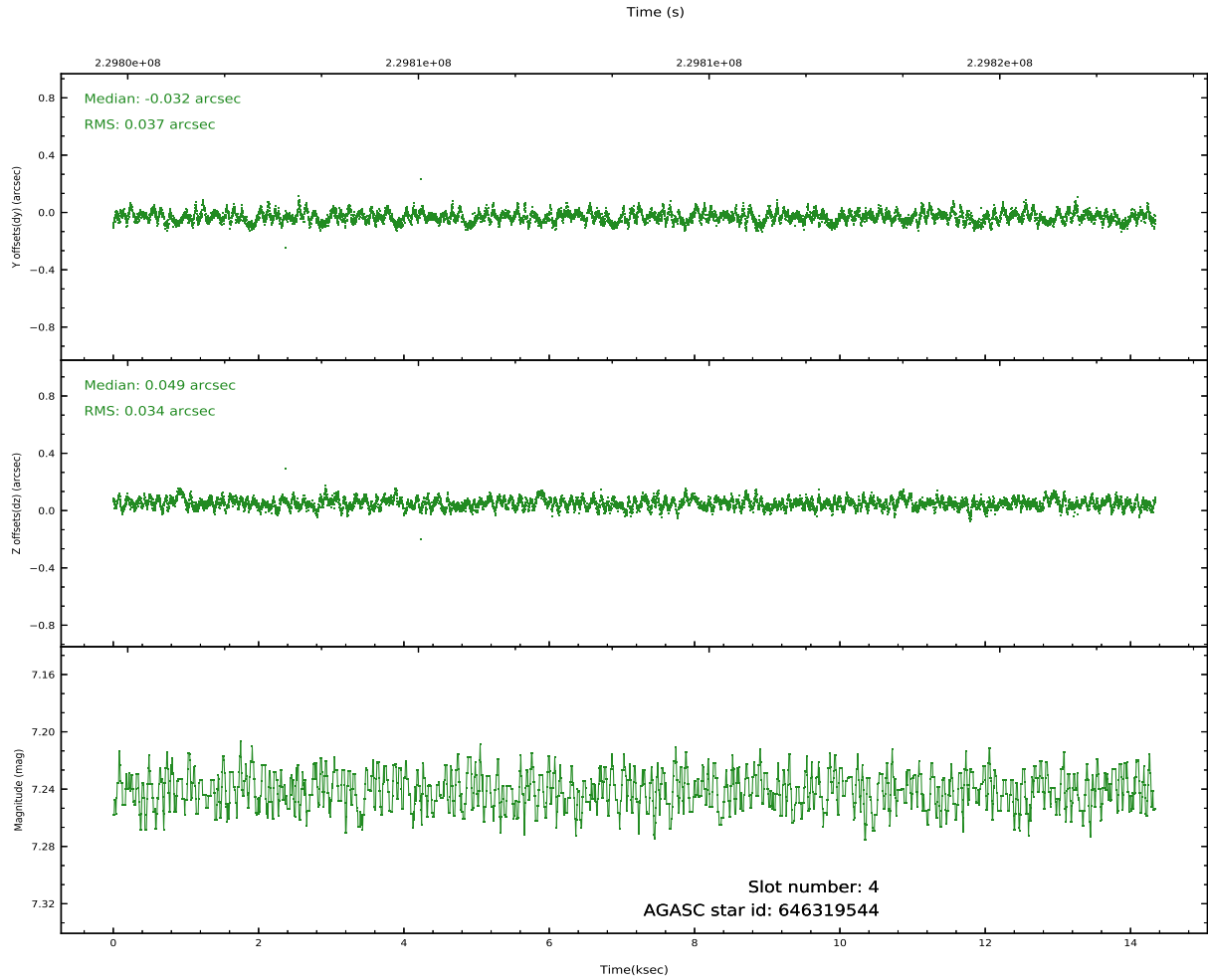
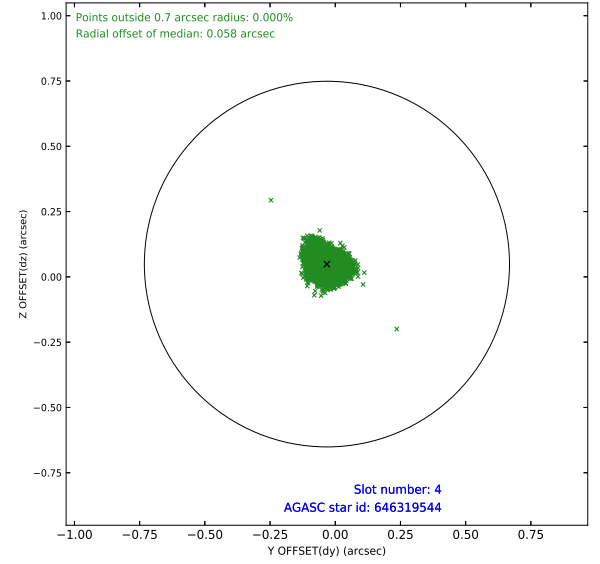
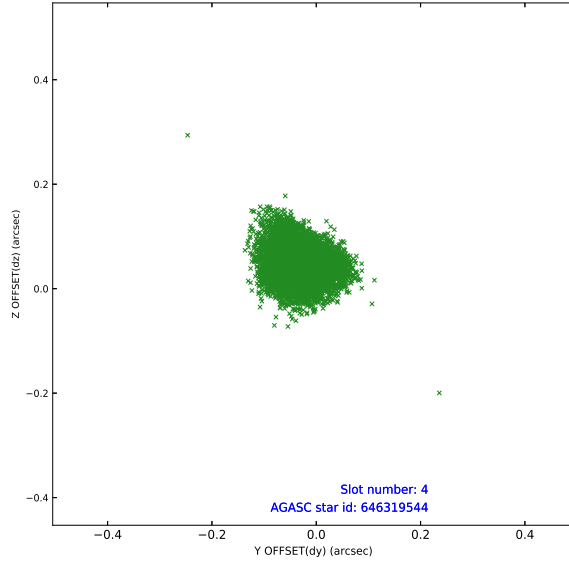
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	3492	1.000	-0.111	-0.084	0.006	0.011	0.000000	0.000000	-760.76	-1730
1	FID		ACIS-S-4	7.21	3495	1.000	0.099	0.058	0.006	0.010	0.000000	0.000000	2152.54	178
2	FID		ACIS-S-6	7.35	3495	1.000	-0.015	0.033	0.007	0.011	0.000000	0.000000	401.68	815
3	GUIDE	used	646318616	9.49	6990	1.000	0.017	0.005	0.077	0.129	176.109395	-0.378794	-1831.38	353
4	GUIDE	used	646319544	7.24	6993	1.000	-0.032	0.049	0.053	0.085	176.255766	-0.517844	-1525.78	1013
5	GUIDE	used	646321952	6.89	6994	1.000	-0.039	0.015	0.062	0.101	175.232908	-0.674327	187.53	-2293
6	GUIDE	used	646322304	9.52	6985	1.000	0.110	-0.157	0.094	0.157	175.858610	-0.945056	389.15	151
7	GUIDE	used	646323360	7.20	6929	1.000	-0.055	0.089	0.051	0.078	176.150253	-1.384836	1552.40	1653

## 2.4 Star Slots

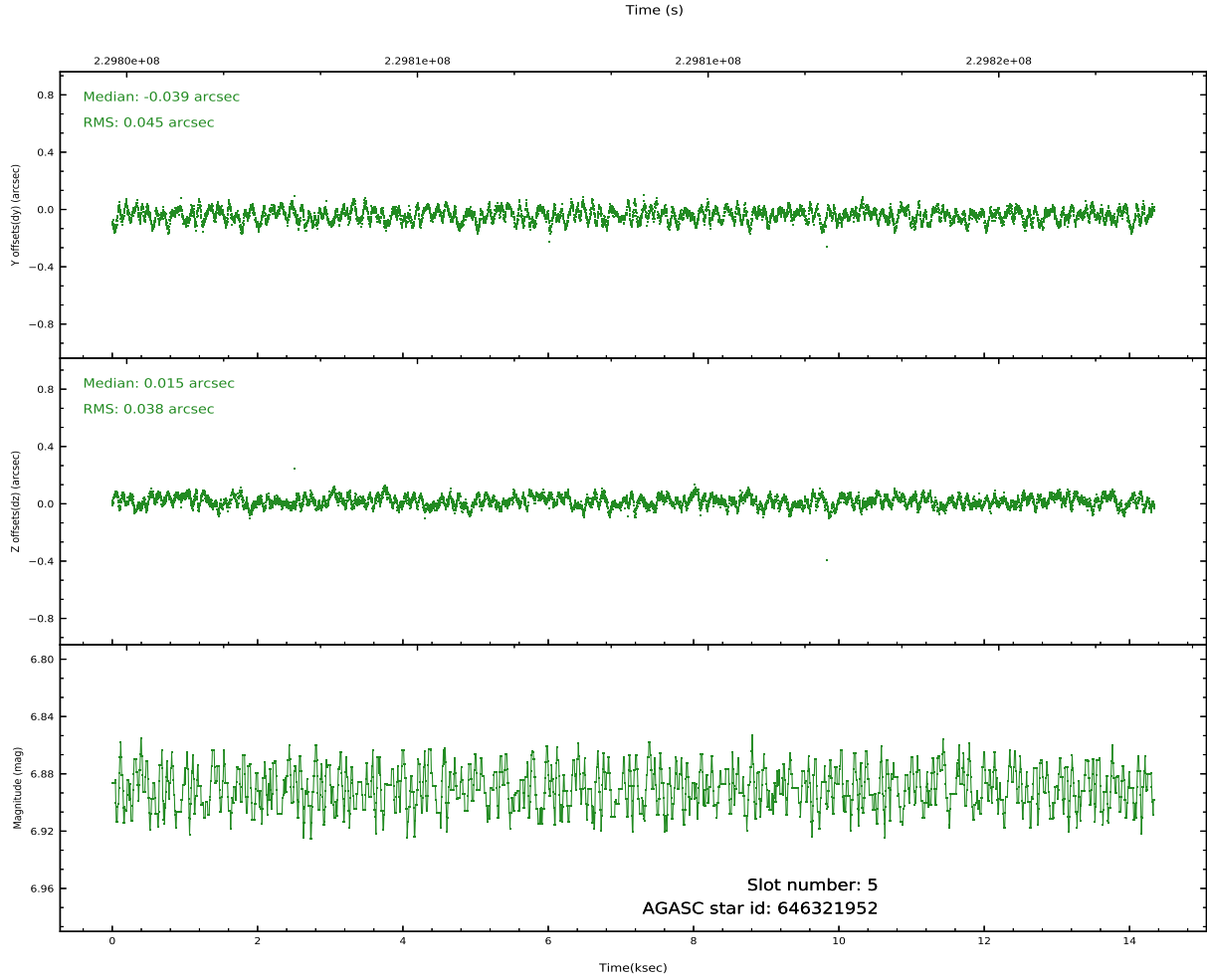
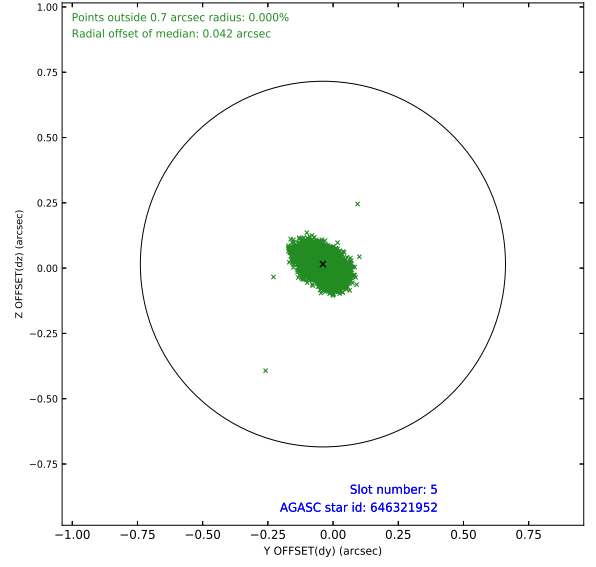
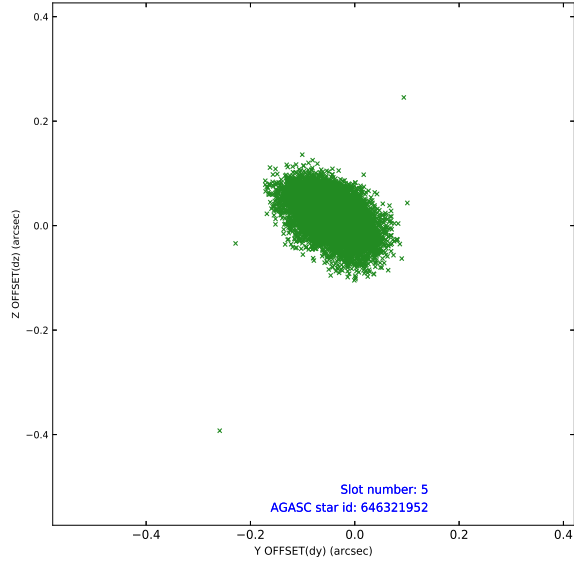
### 2.4.1 Slot 3



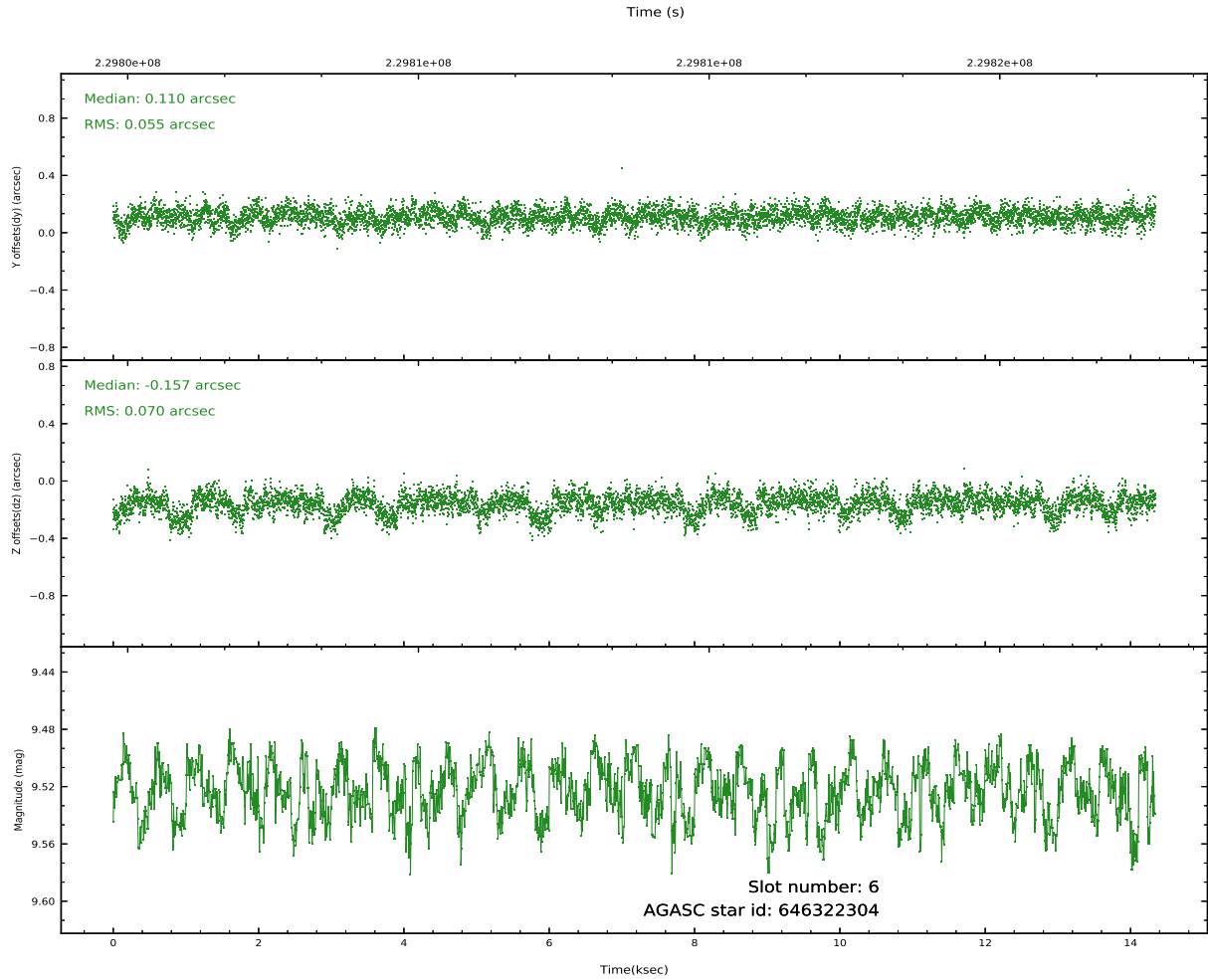
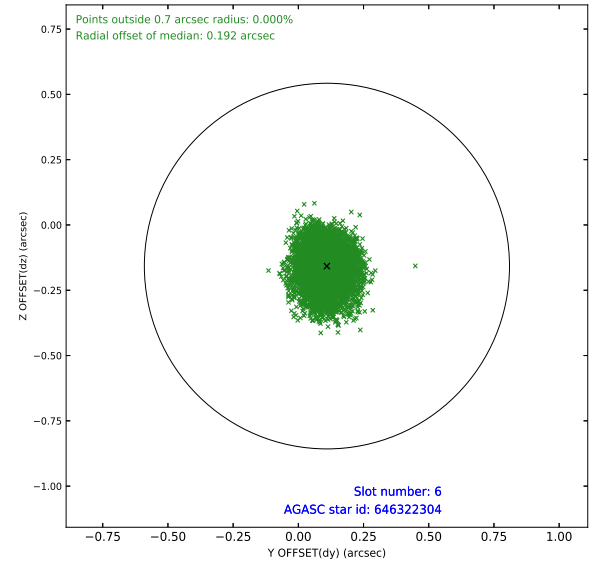
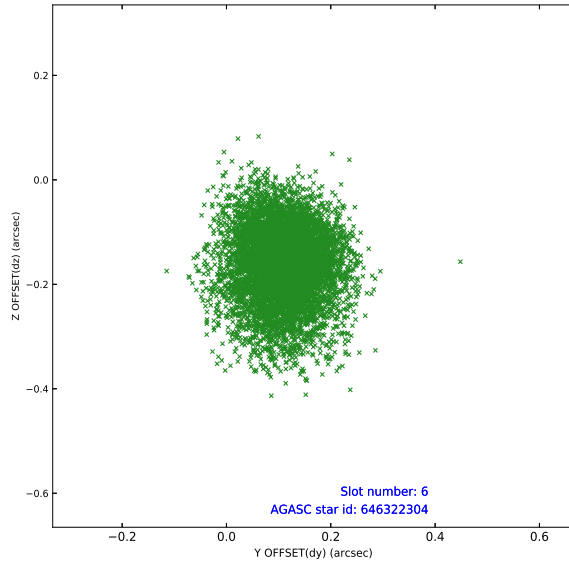
## 2.4.2 Slot 4



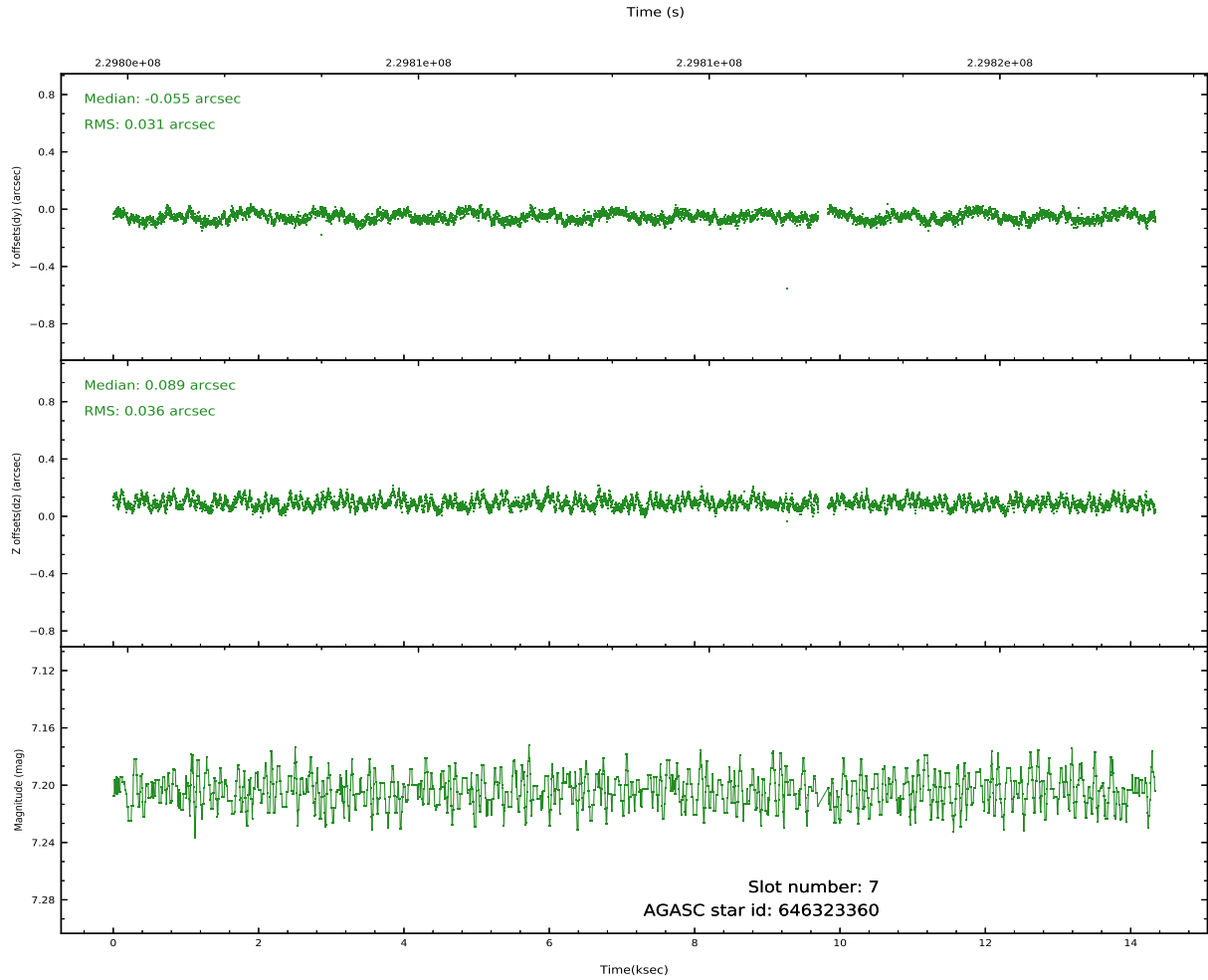
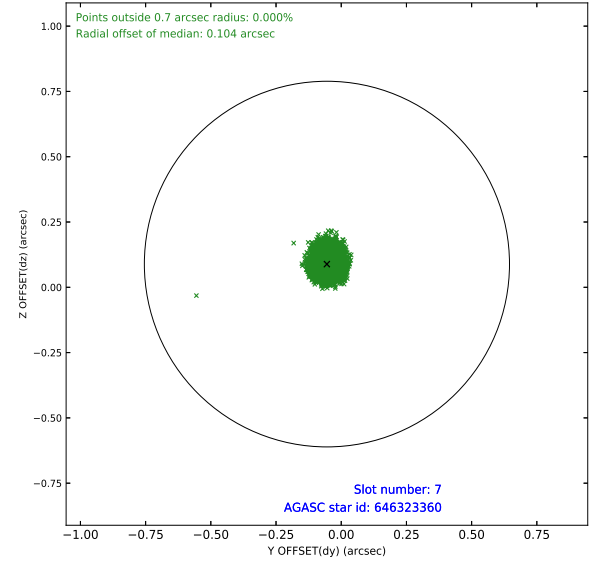
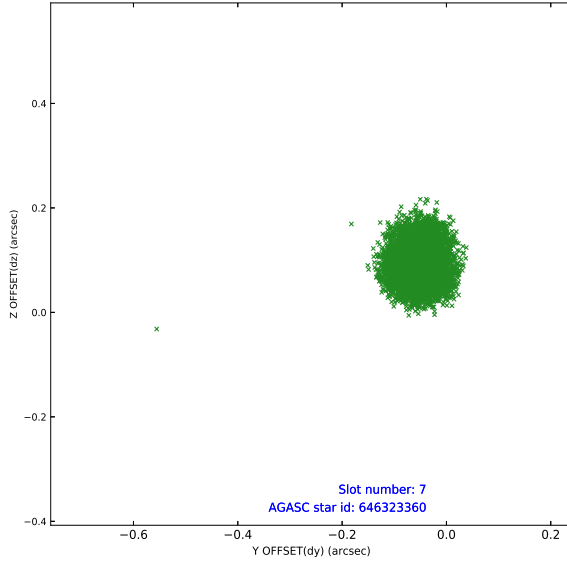
### 2.4.3 Slot 5



## 2.4.4 Slot 6

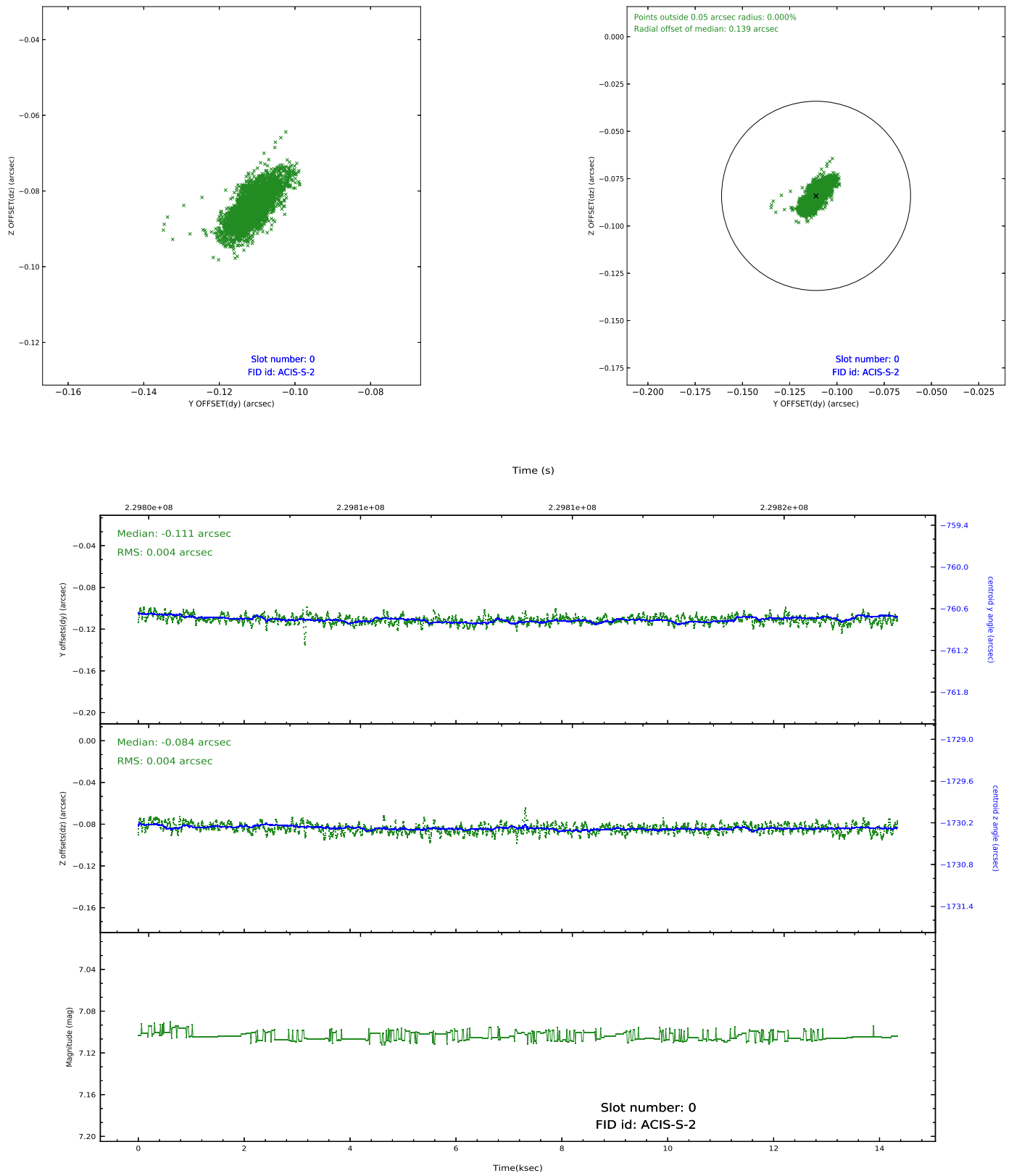


## 2.4.5 Slot 7

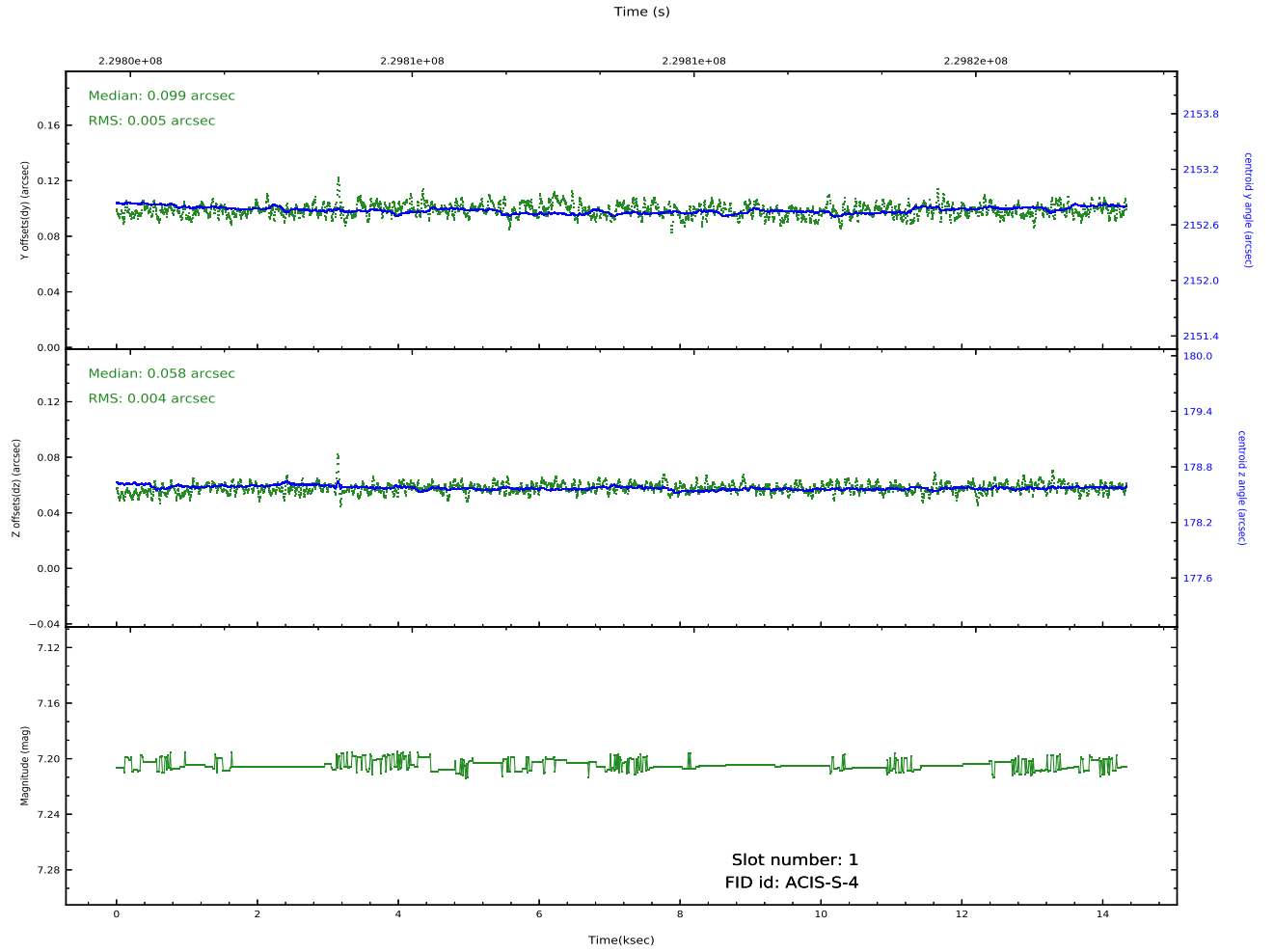
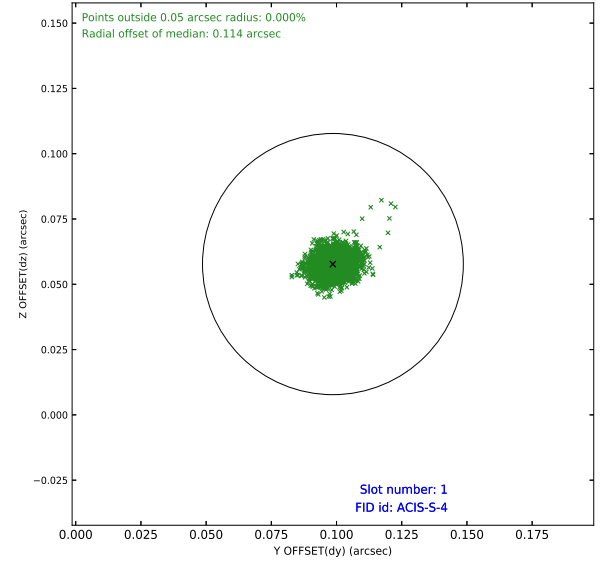
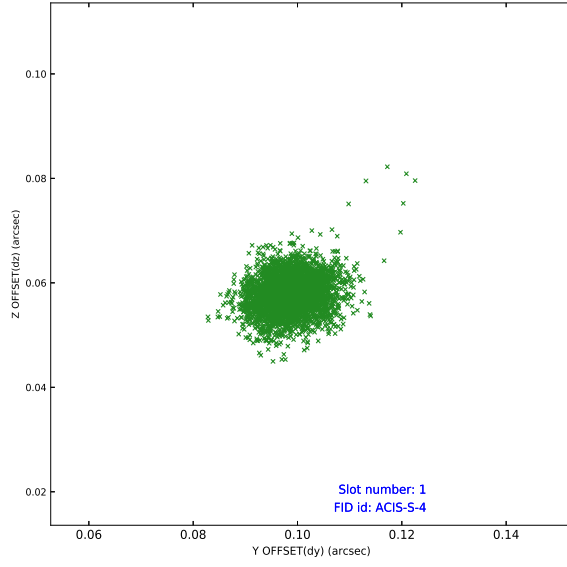


## 2.5 FID Slots

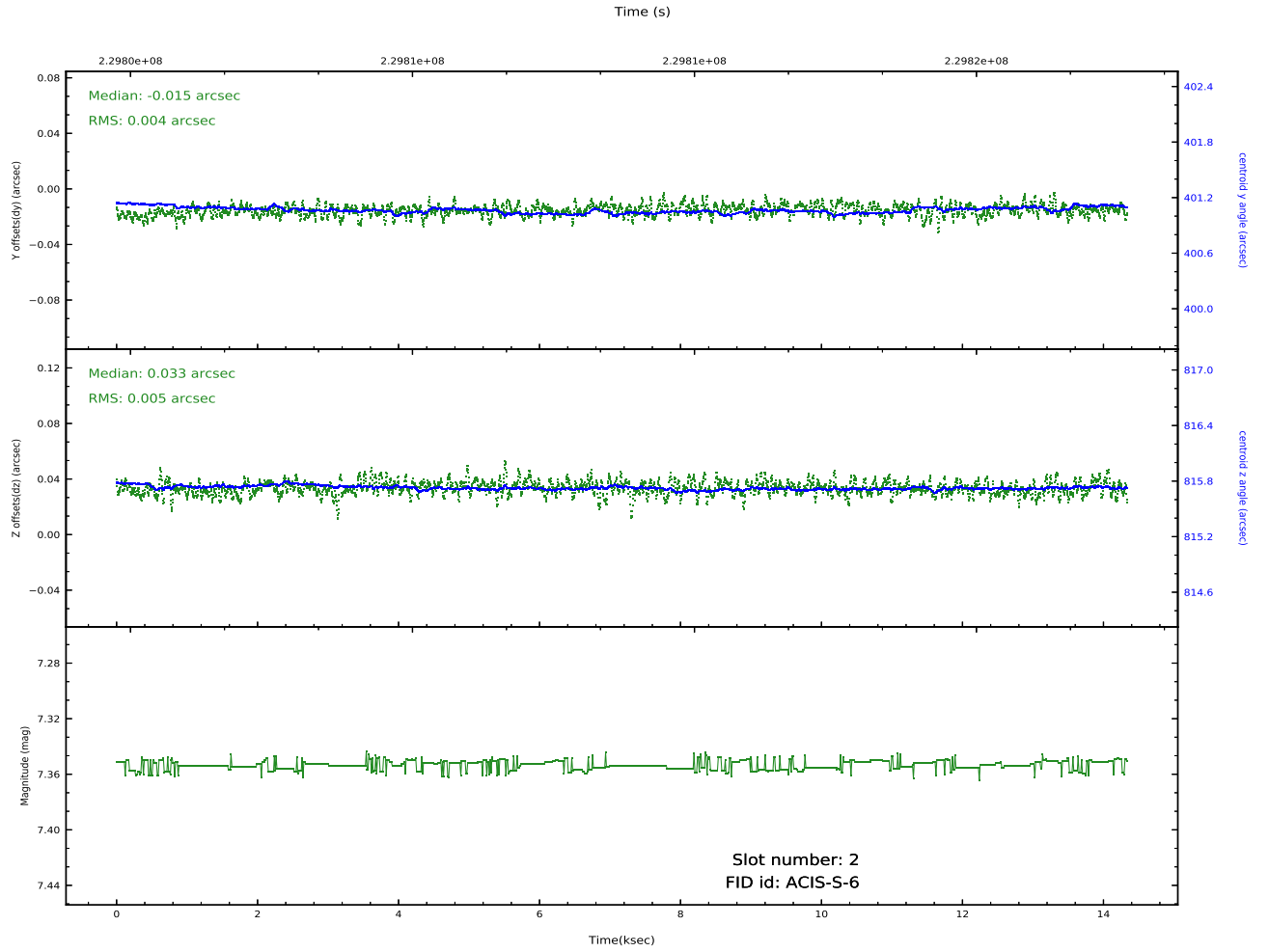
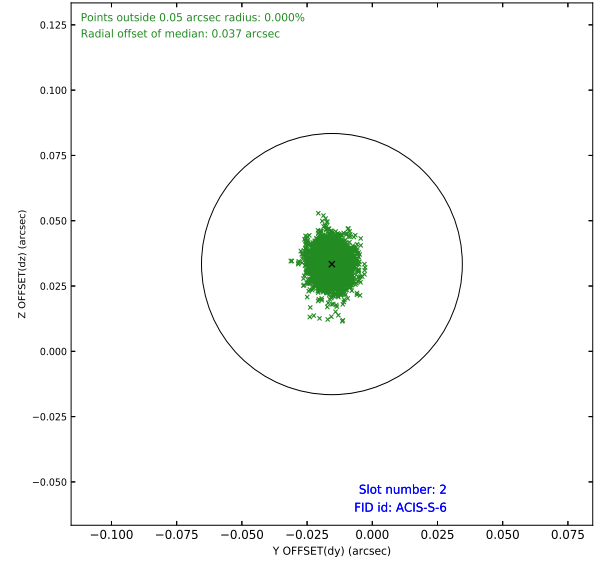
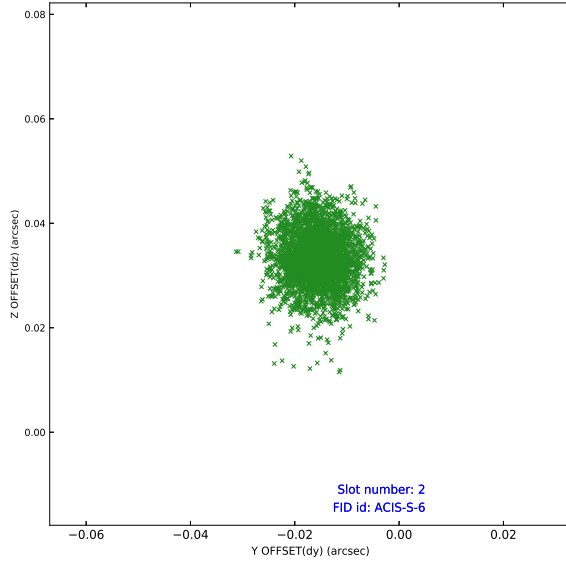
### 2.5.1 Slot 0



## 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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.33095

### A.2 Comments