

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5638 - L2 Version 6  
Chandra X-Ray Center

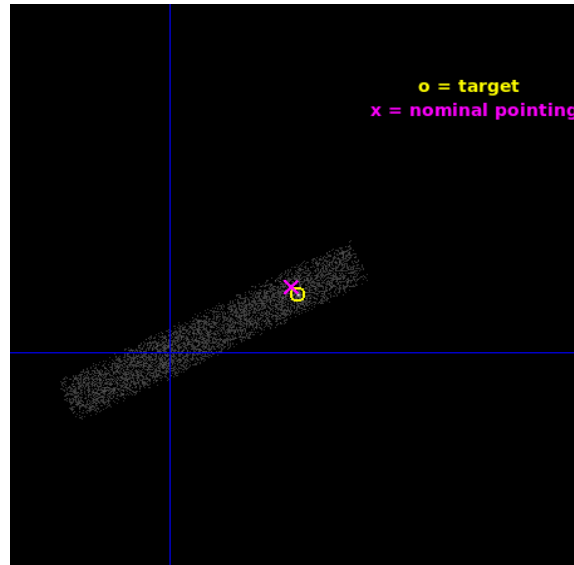
L2 Processing Date : Oct 11 2020

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# 1 Front

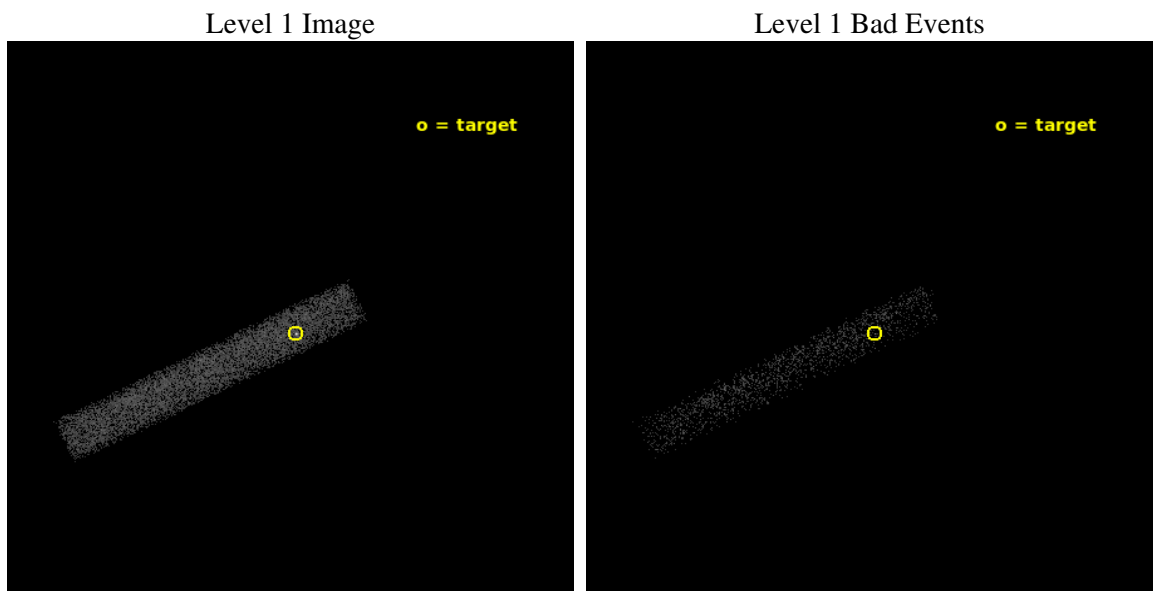
seq_num	701061	Sequence number
obs_id	5638	Observation id
title	The Extended X-ray Structure of a New Population of Blazars	Propos
observer	Dr. Hermine Landt	Principal investigator
object	RGB J0254.7+3931	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	43.6775	Observer's specified target RA [deg]
dec_targ	39.526333	Observer's specified target Dec [deg]
ra_nom	43.681020115924	Nominal RA [deg]
dec_nom	39.529943437108	Nominal Dec [deg]
roll_nom	153.21298430181	Nominal Roll [deg]
revision	6	Processing version of data
ontime	9687.2001443207	Sum of GTIs [s]
livetime	8785.7791985496	Livetime [s]
ontime7	9687.2001443207	Sum of GTIs [s]
l2events	7741	Number of level 2 events



## 2 OBI

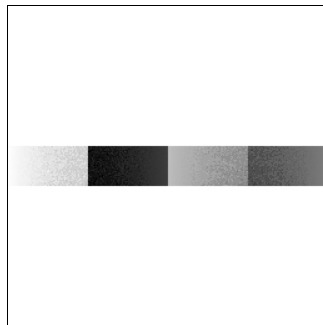
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9687.2001443207	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	9687.2001443207	Sum of GTIs [s]
date	2020-10-11T04:10:10	Date and time of file creation	l1events	16995	Number of level 1 events
revision	6	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	16995
rejected events	8979
rejected %	52%

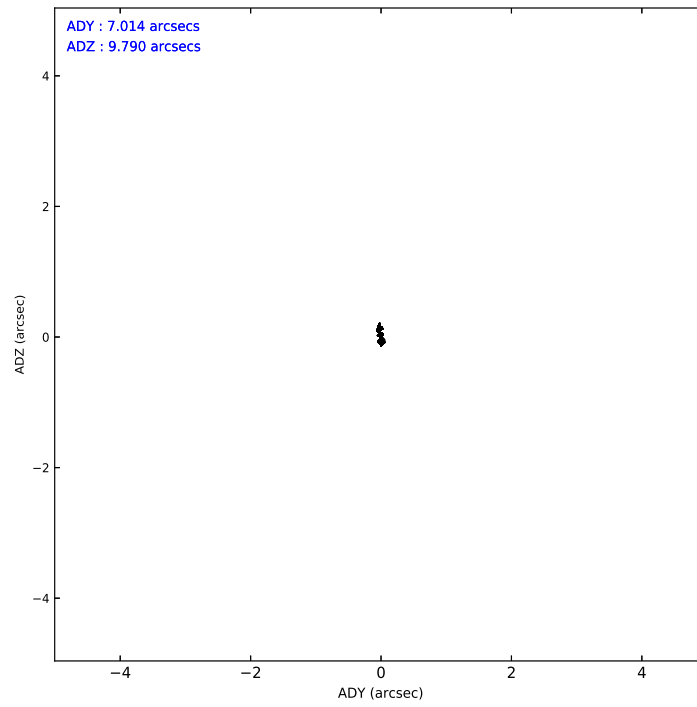
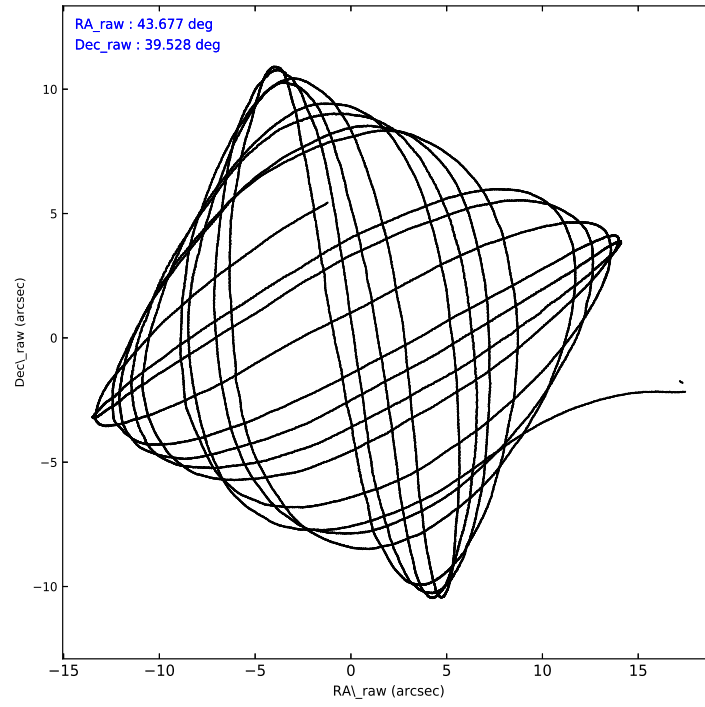
	<b>ccd 7</b>
grade 0 events	1195
	7%
grade 1 events	19
	0%
grade 2 events	1798
	10%
grade 3 events	1157
	6%
grade 4 events	1071
	6%
grade 5 events	1480
	8%
grade 6 events	3504
	20%
grade 7 events	6771
	39%

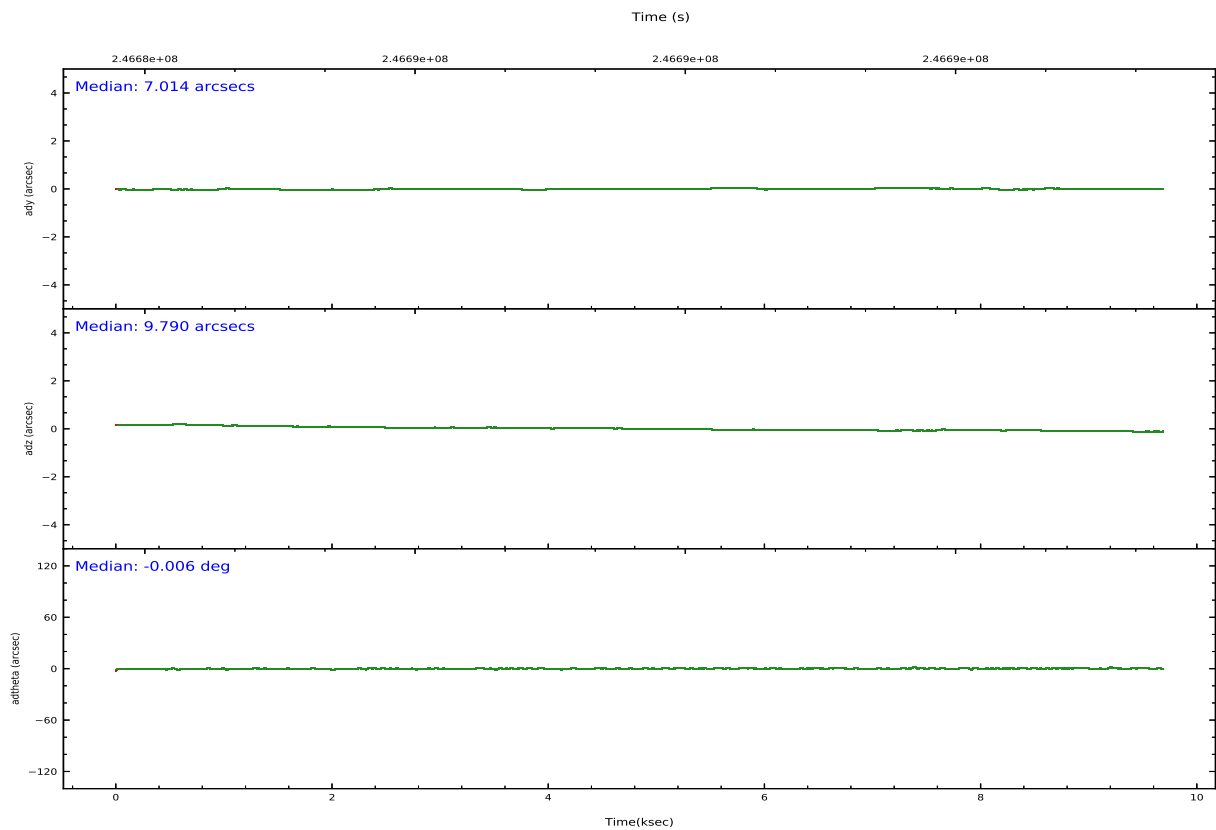
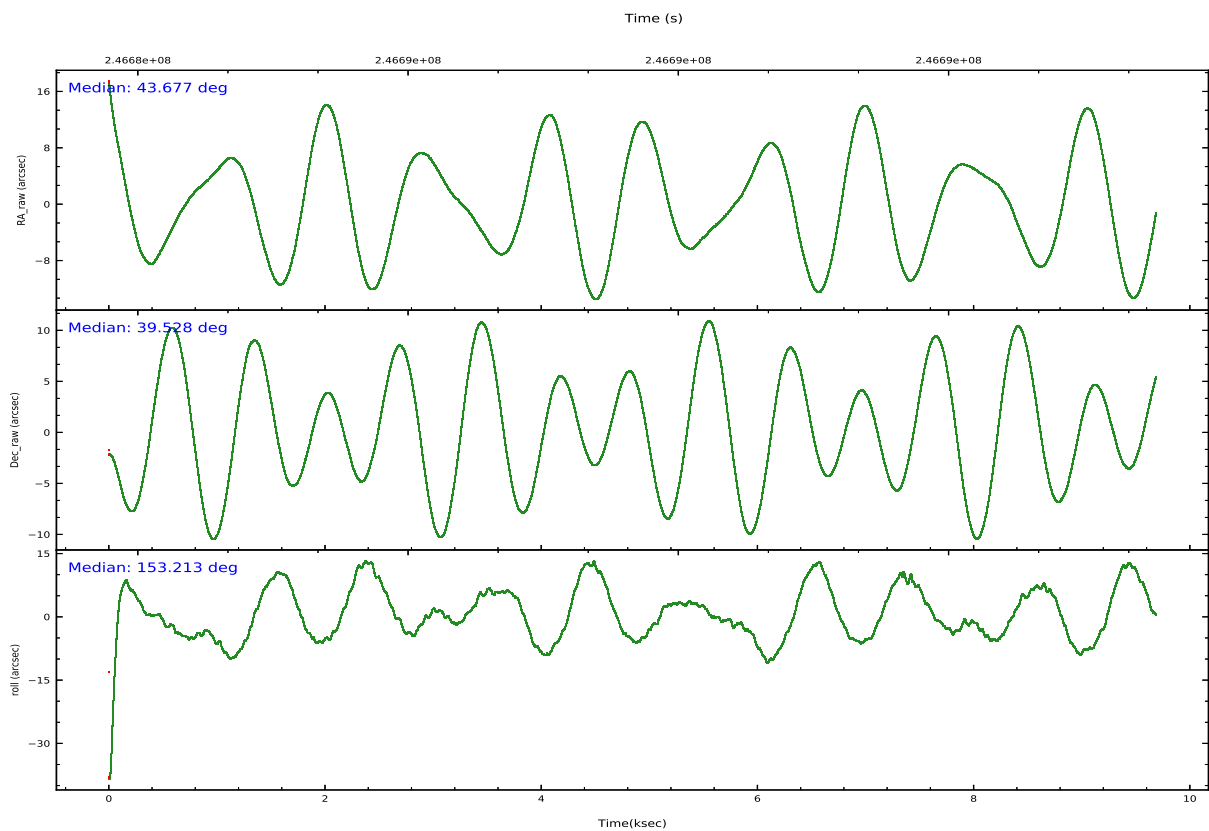


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	43.712271	43.681020115924	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	39.530275	39.529943437108	Subarray start row	449	449
[deg] Pointing Roll	153.026221	153.21298430181	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	246684920.184000	246683711.8865			
Observation start date	2005-10-26T03:34:16	2005-10-26T03:15:11			
[s] Observation end time (MET)	246694420.184000	246695816.62455			
Observation end date	2005-10-26T06:12:36	2005-10-26T06:36:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



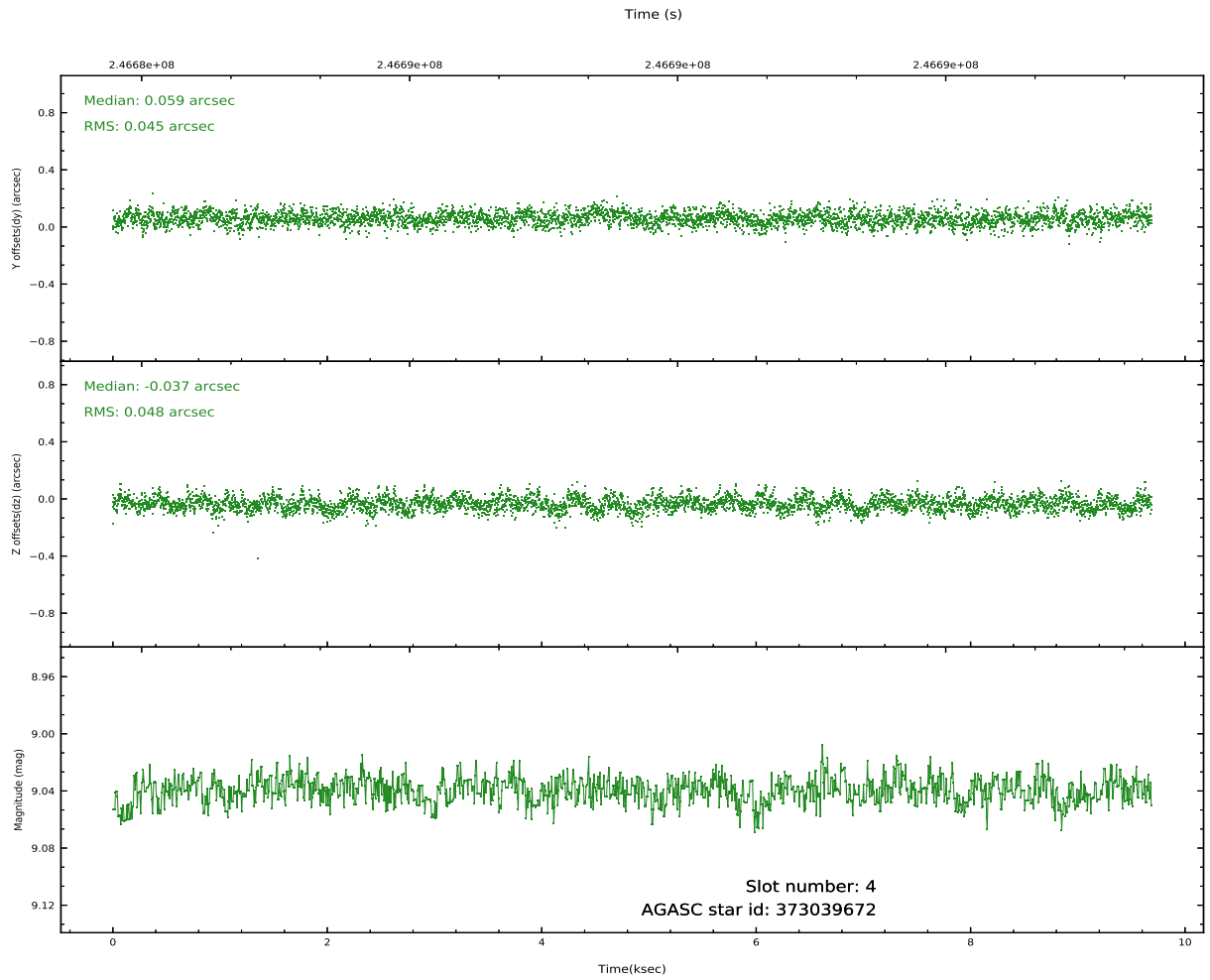
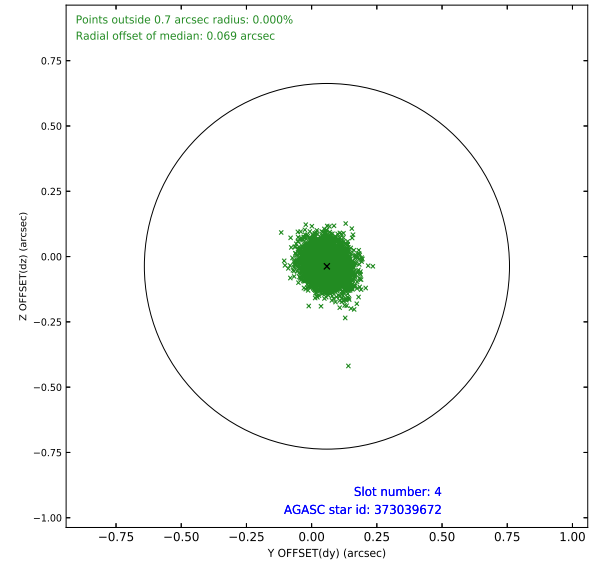
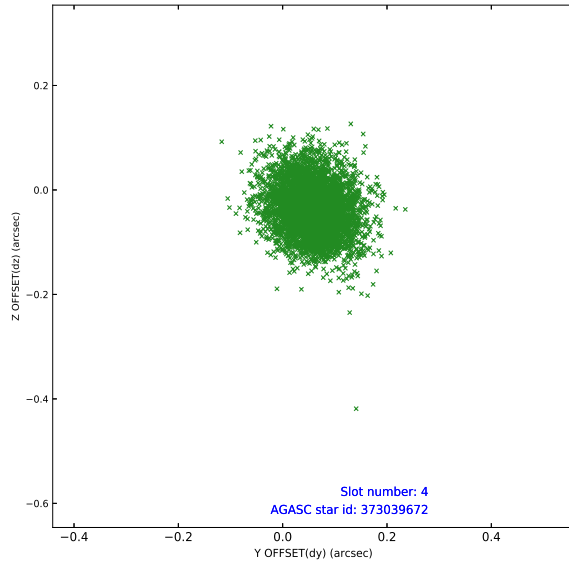


Slot Statistics

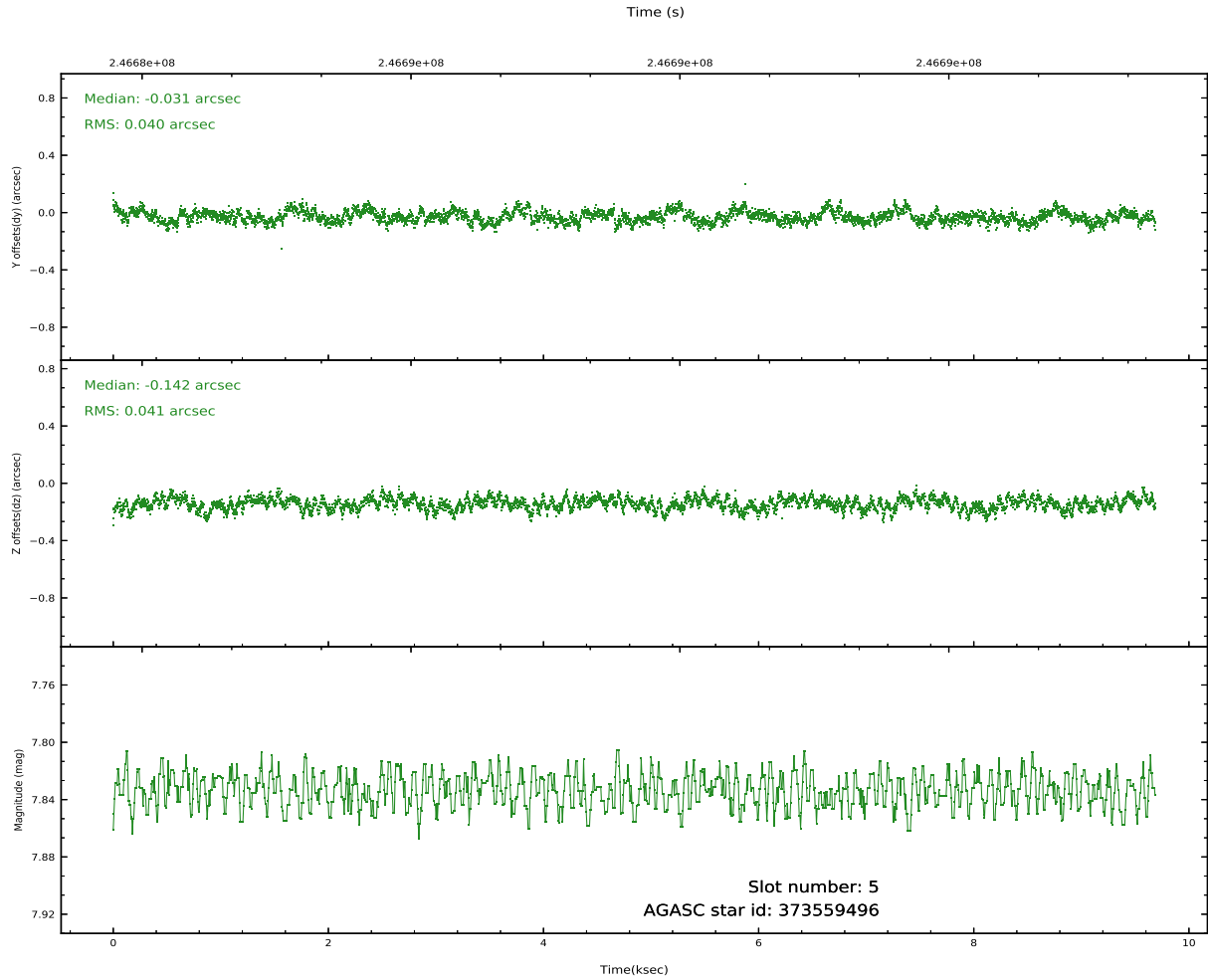
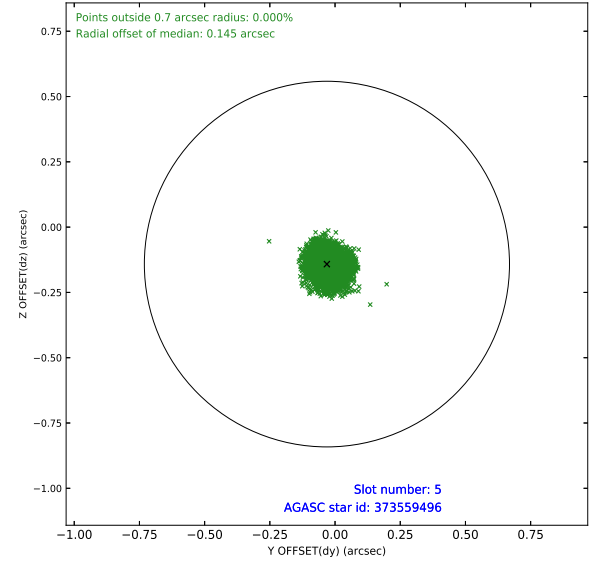
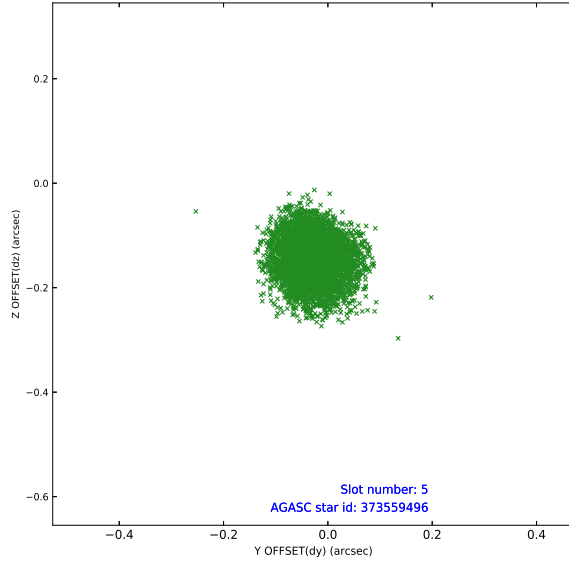
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2364	1.000	-0.085	-0.073	0.007	0.012	0.000000	0.000000	-759.78	-1731
1	FID		ACIS-S-4	7.21	2364	1.000	0.166	0.061	0.006	0.011	0.000000	0.000000	2153.43	177
2	FID		ACIS-S-5	7.24	2364	1.000	-0.111	0.021	0.008	0.013	0.000000	0.000000	-1812.01	171
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	373039672	9.04	4721	1.000	0.059	-0.037	0.069	0.114	44.268009	39.065075	-2141.61	783
5	GUIDE	used	373559496	7.83	4727	1.000	-0.031	-0.142	0.061	0.098	43.732078	39.429120	-214.59	299
6	GUIDE	used	373563072	9.54	4710	1.000	-0.082	0.082	0.103	0.174	43.351972	40.159563	1911.98	-1571
7	GUIDE	used	373569328	9.54	4710	1.000	0.057	0.100	0.091	0.144	44.573606	39.682823	-1871.89	-1582

## 2.4 Star Slots

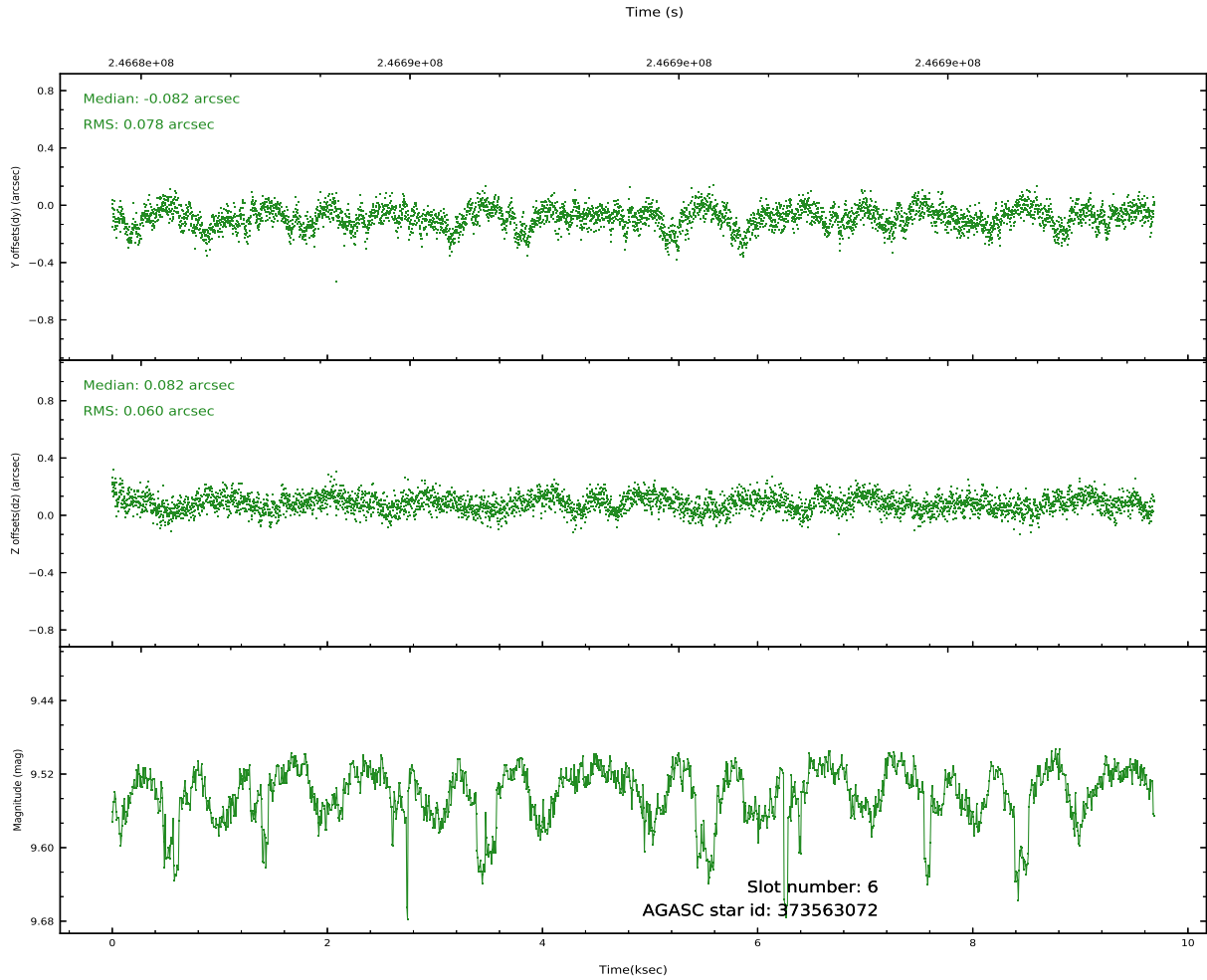
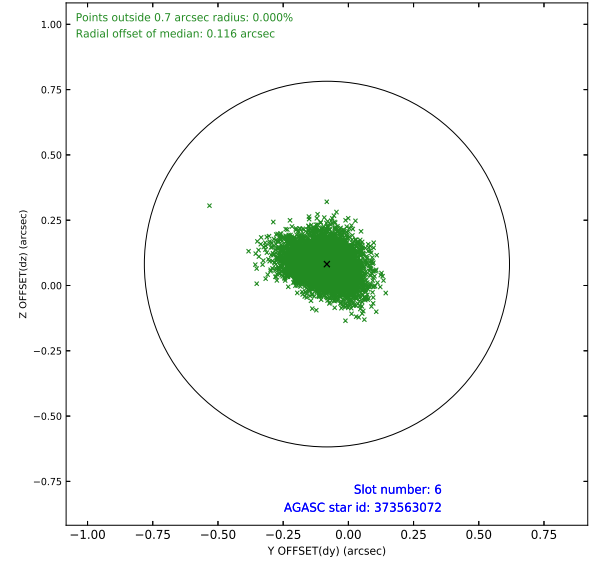
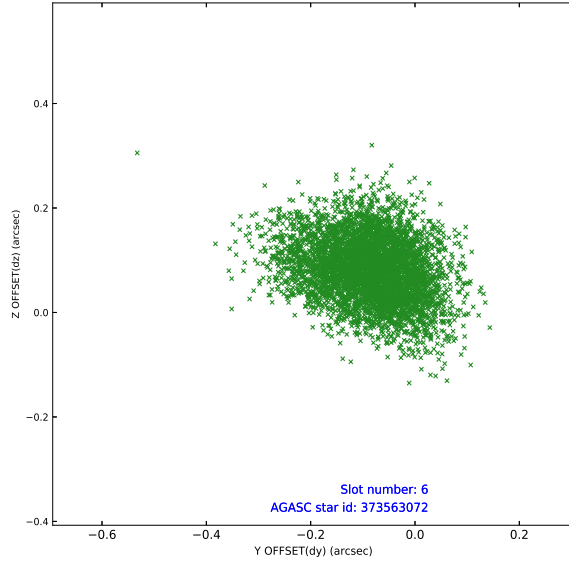
### 2.4.1 Slot 4



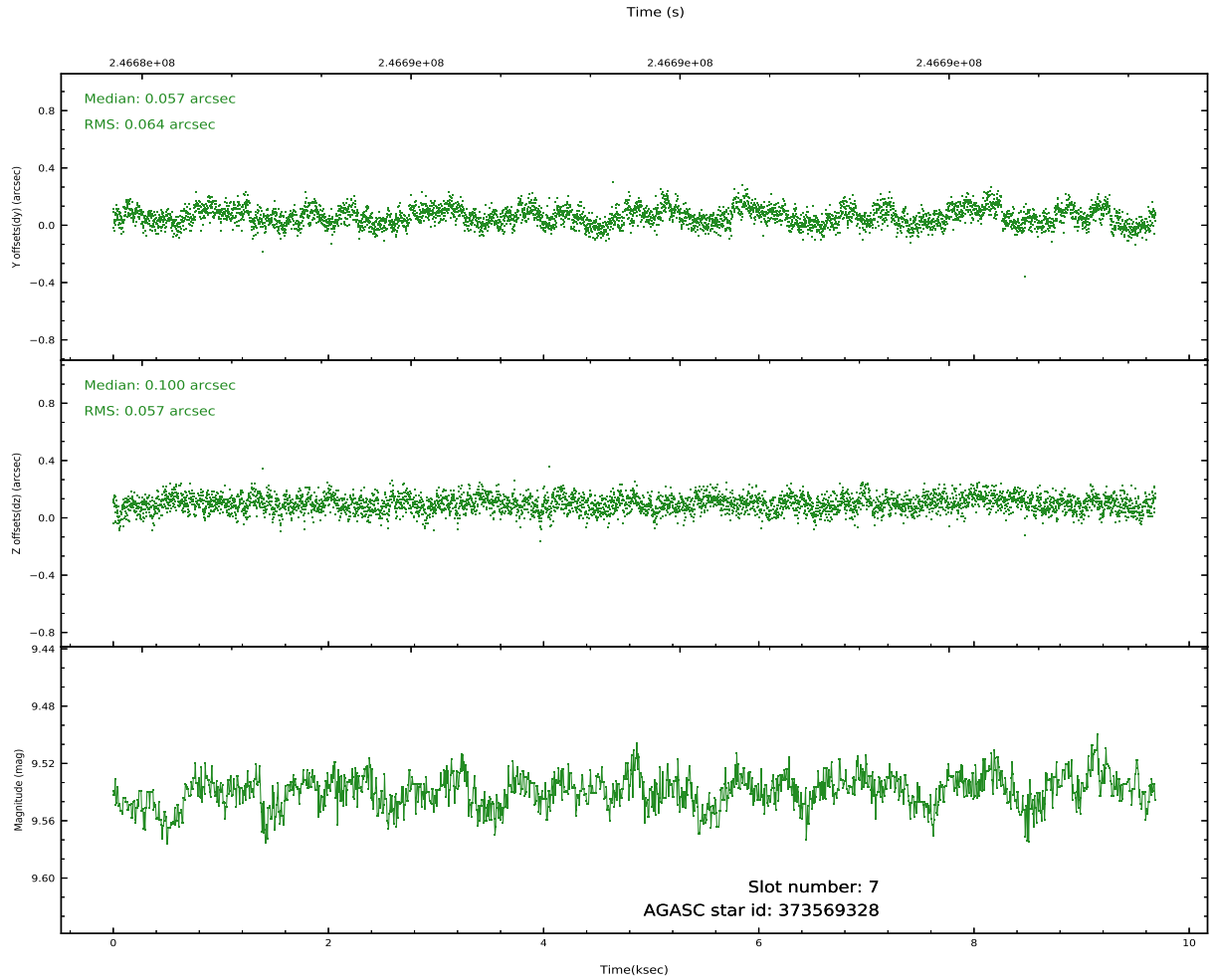
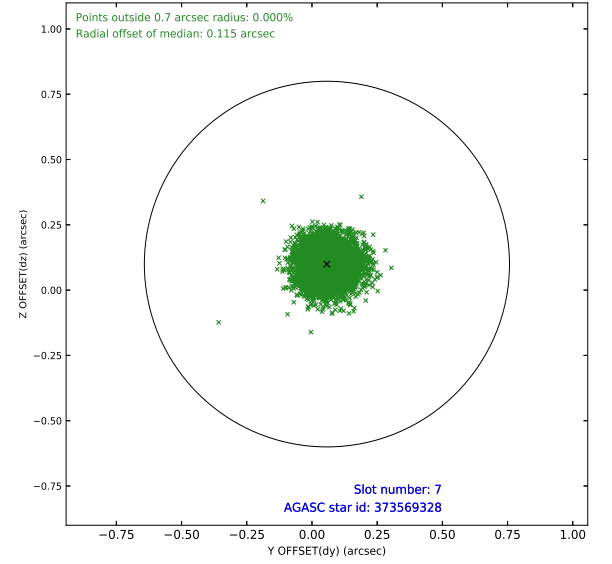
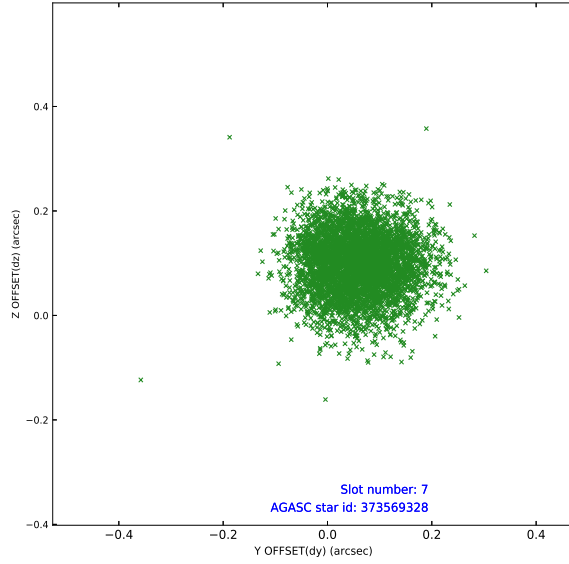
## 2.4.2 Slot 5



### 2.4.3 Slot 6



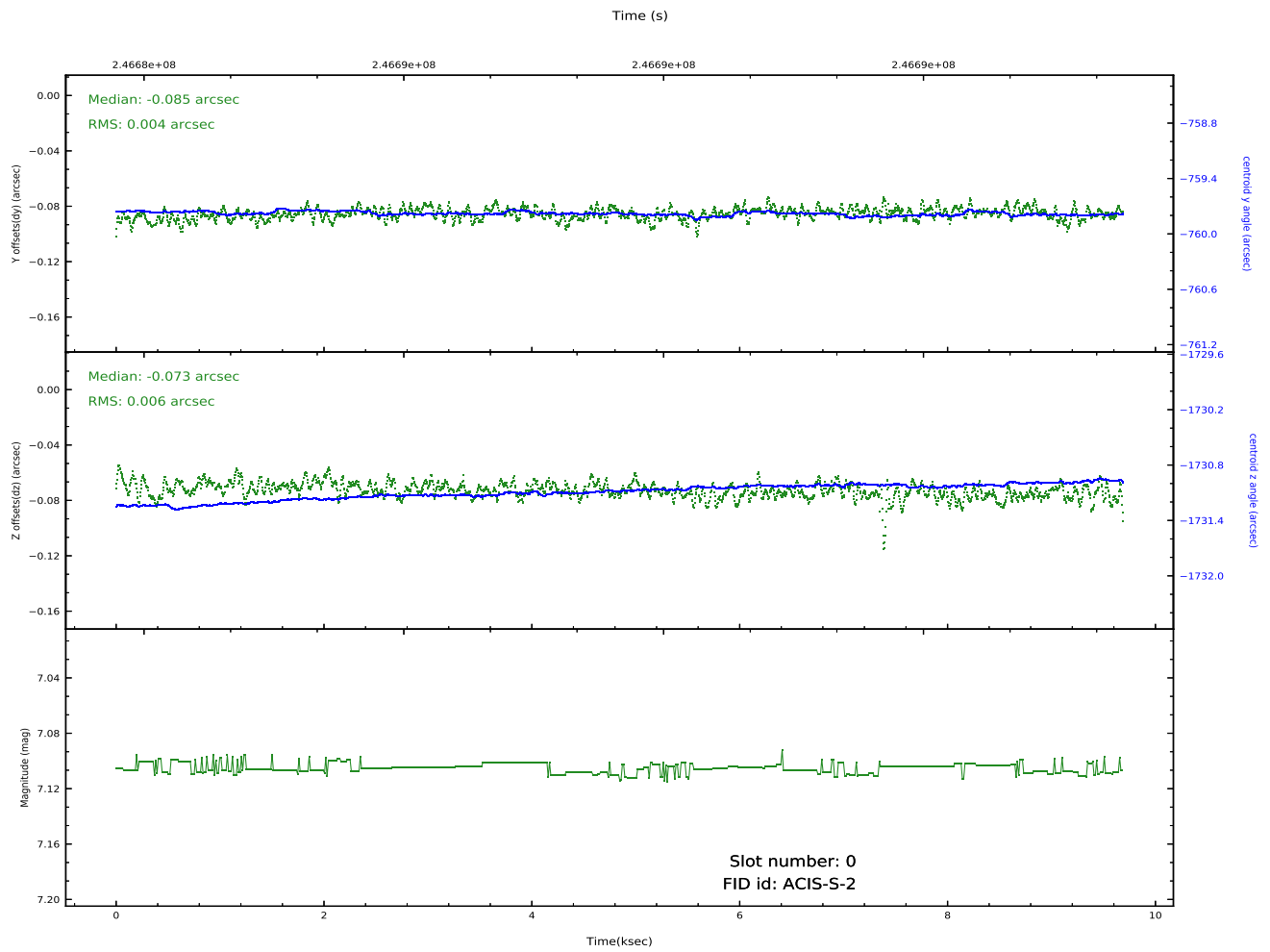
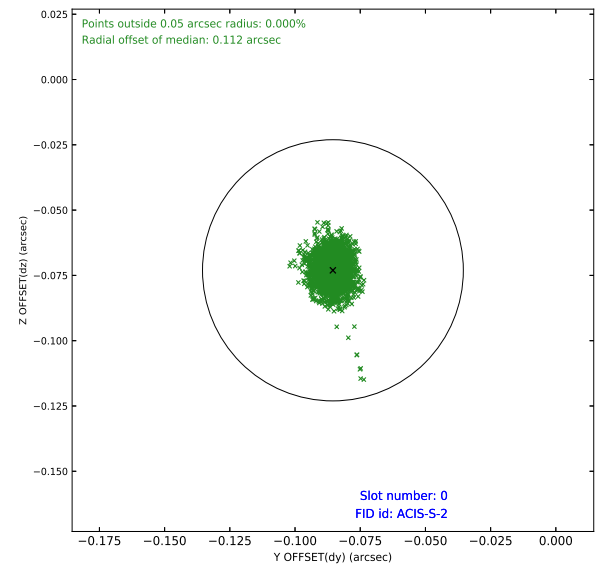
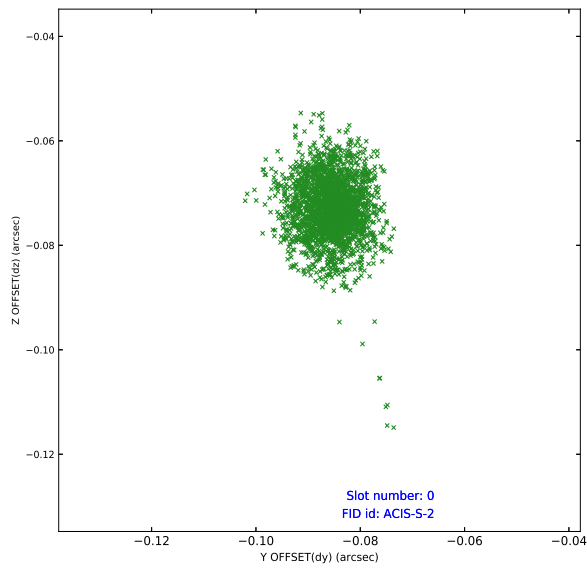
## 2.4.4 Slot 7



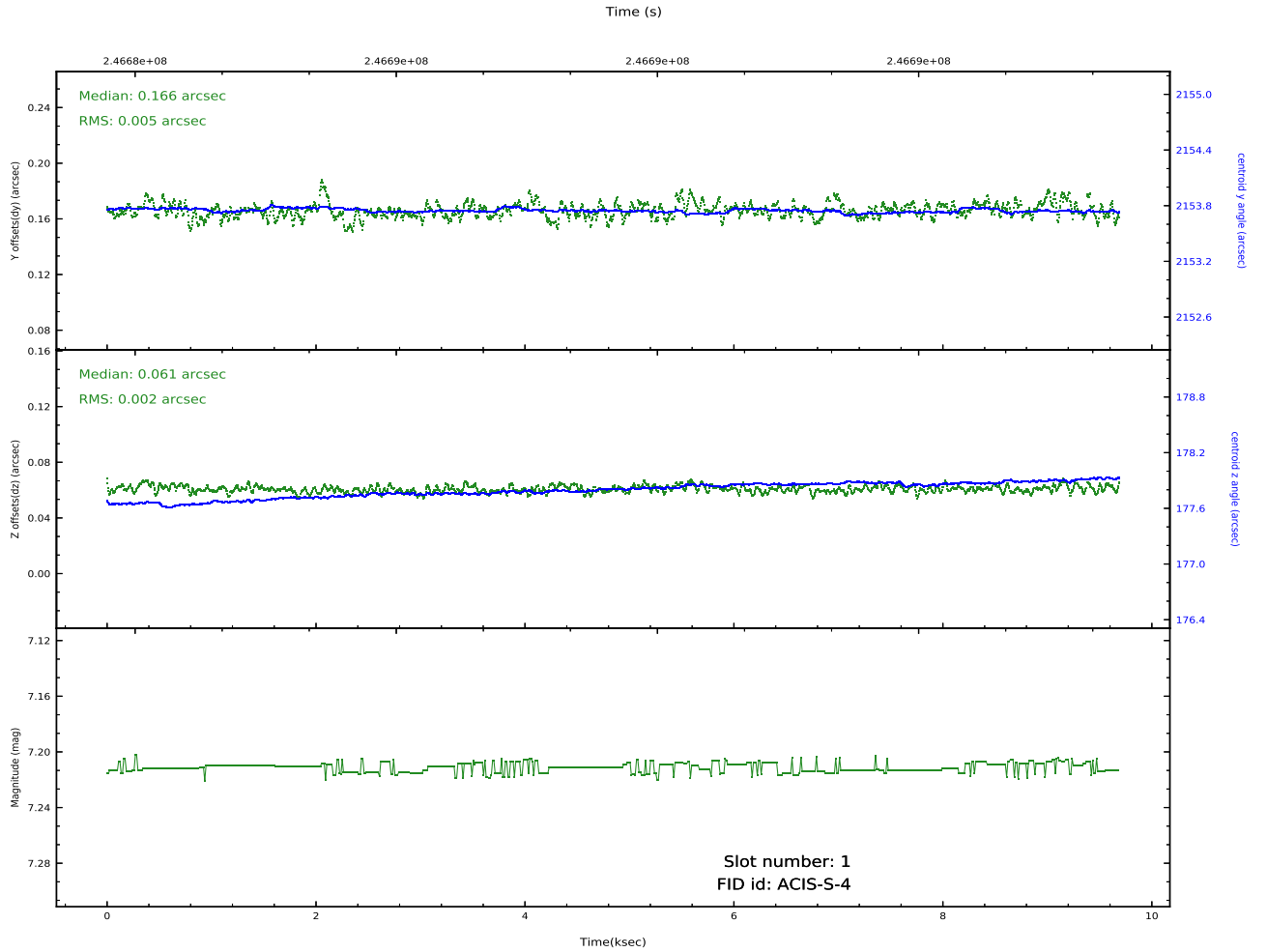
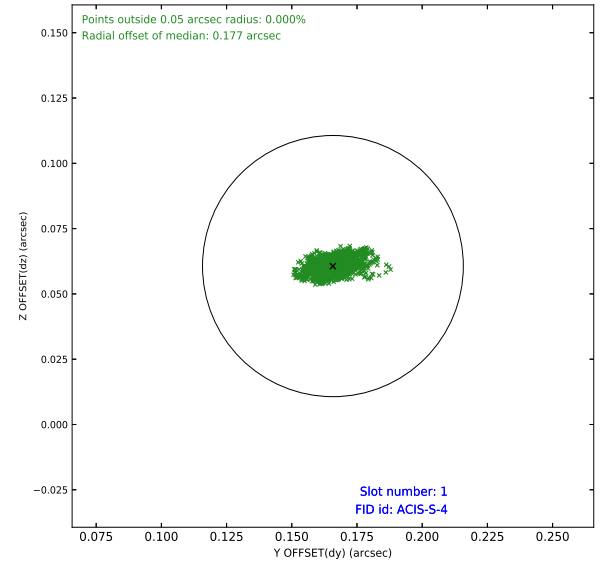
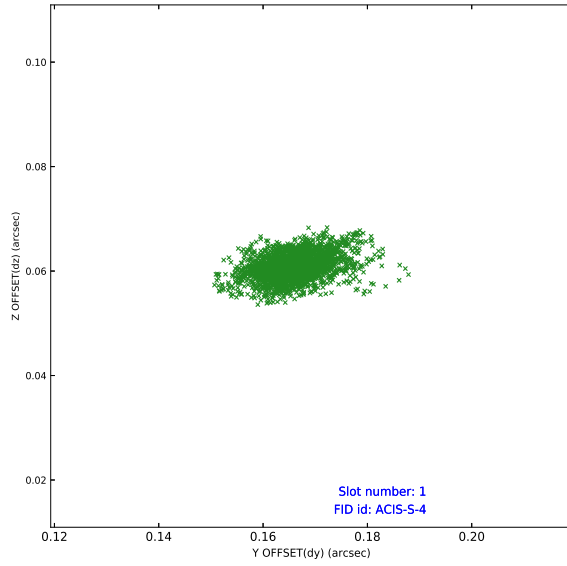


## 2.5 FID Slots

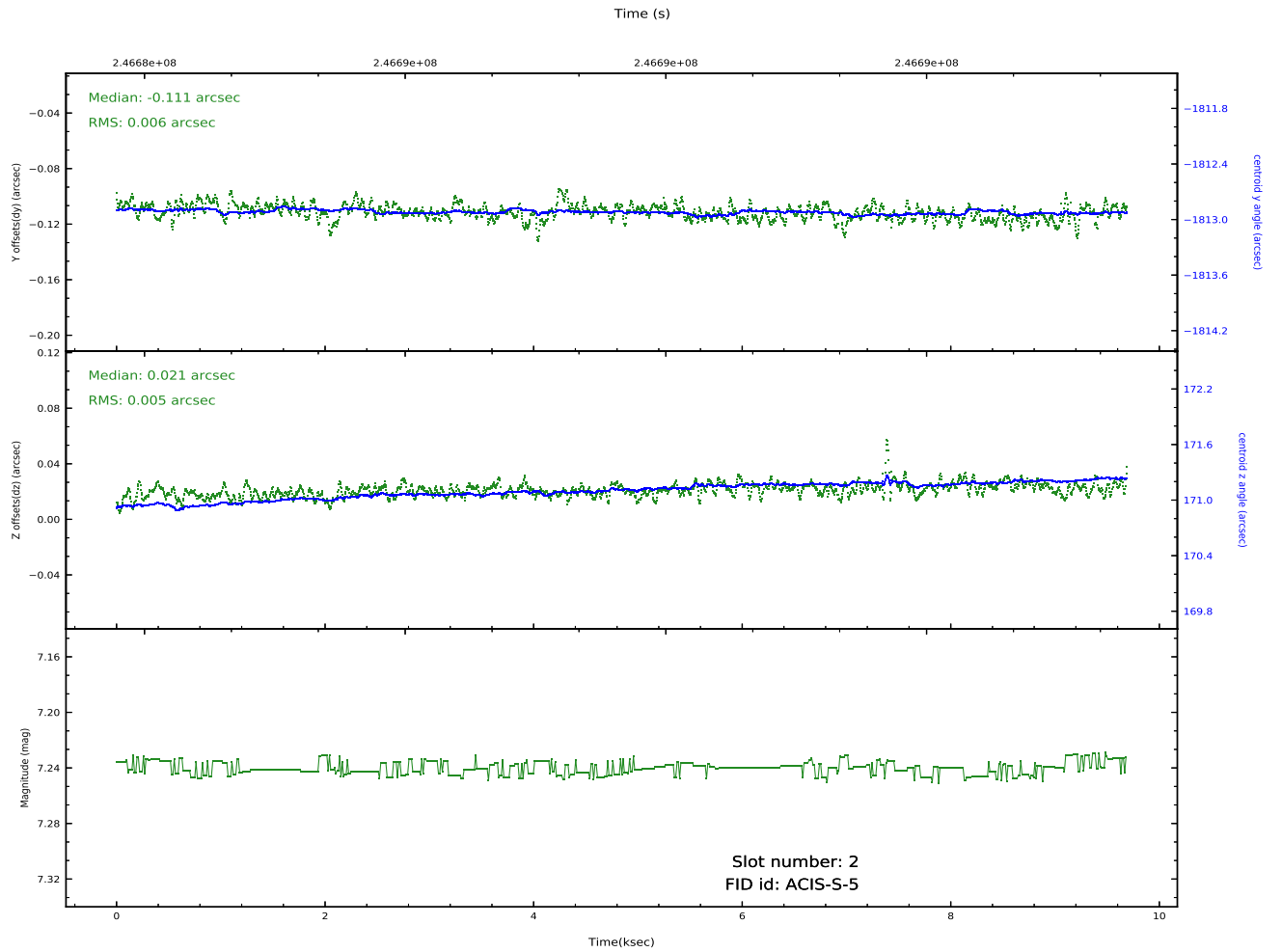
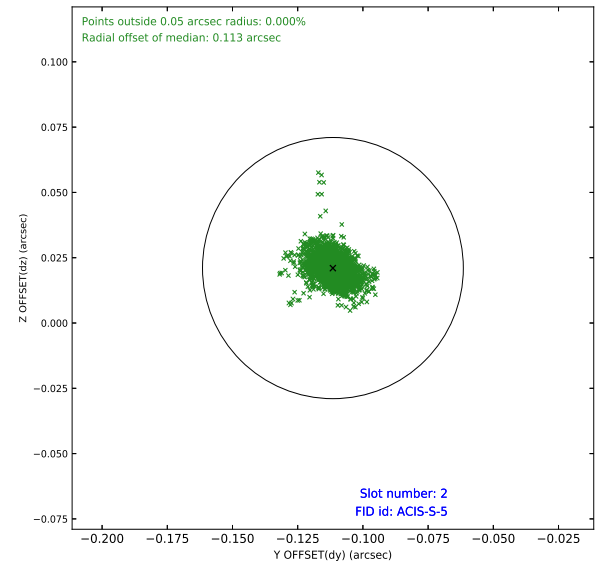
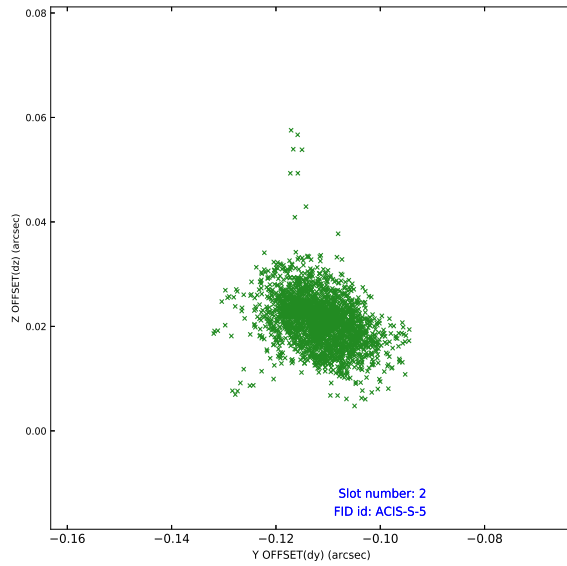
### 2.5.1 Slot 0



## 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)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.4968

## A.2 Comments

Charge time for this ObsId remains at previous value of 9.4968 ks, although with the current processing the charge time would have been 9.69 ksec.

=====

Roll preference met.

=====

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.