

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4772 - L2 Version 6  
Chandra X-Ray Center

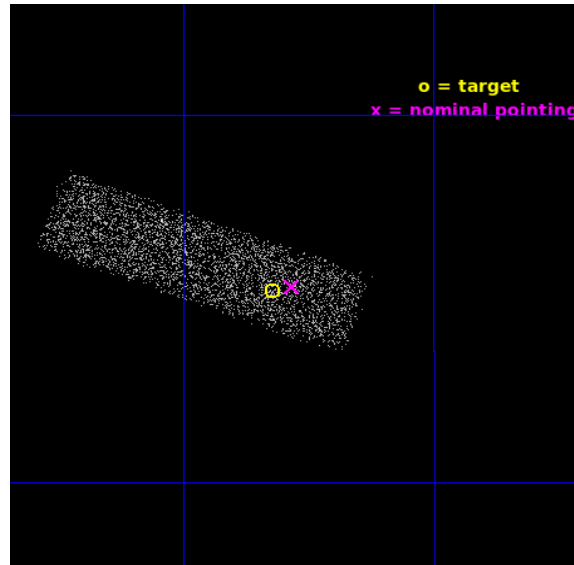
L2 Processing Date : Sep 24 2020

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# 1 Front

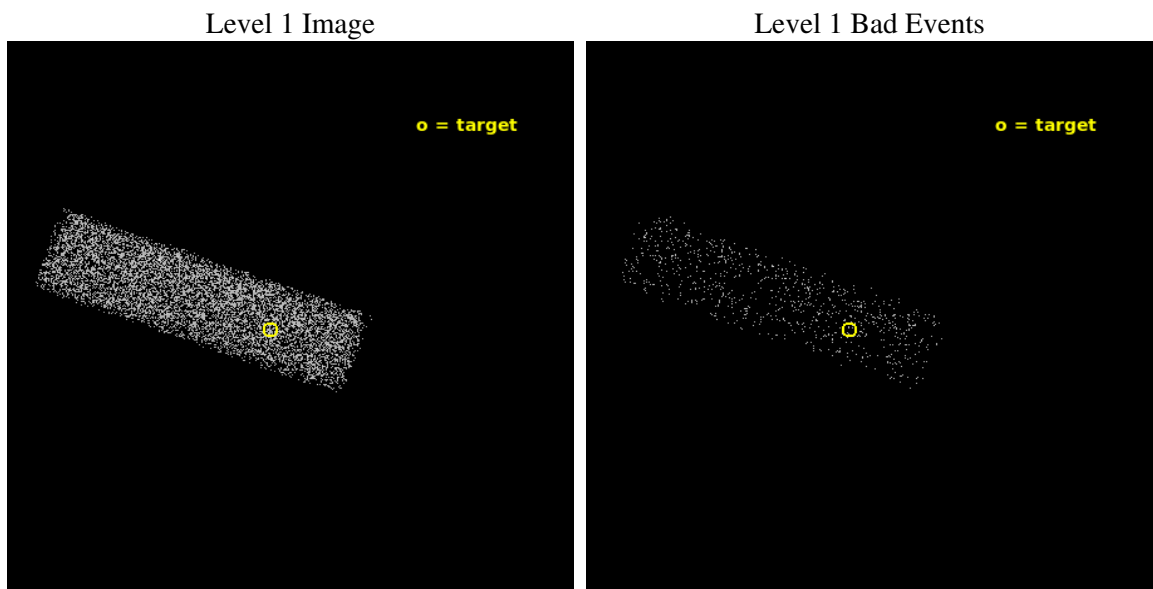
seq_num	700855	Sequence number
obs_id	4772	Observation id
title	Anchoring the AGN X-ray Luminosity Function	Proposal title
observer	Dr. JOHN SALZER	Principal investigator
object	KISS F1215-1639	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.580417	Observer's specified target RA [deg]
dec_targ	29.253694	Observer's specified target Dec [deg]
ra_nom	184.57075520242	Nominal RA [deg]
dec_nom	29.255444143616	Nominal Dec [deg]
roll_nom	200.00124258554	Nominal Roll [deg]
revision	6	Processing version of data
ontime	4568.0000680685	Sum of GTIs [s]
livetime	4345.0966118791	Livetime [s]
ontime7	4568.0000680685	Sum of GTIs [s]
l2events	4589	Number of level 2 events



## 2 OBI

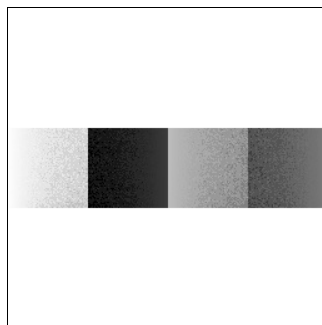
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4568.0000680685	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	4568.0000680685	Sum of GTIs [s]
date	2020-09-25T01:15:56	Date and time of file creation	l1events	11055	Number of level 1 events
revision	6	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	11055
rejected events	6321
rejected %	57%

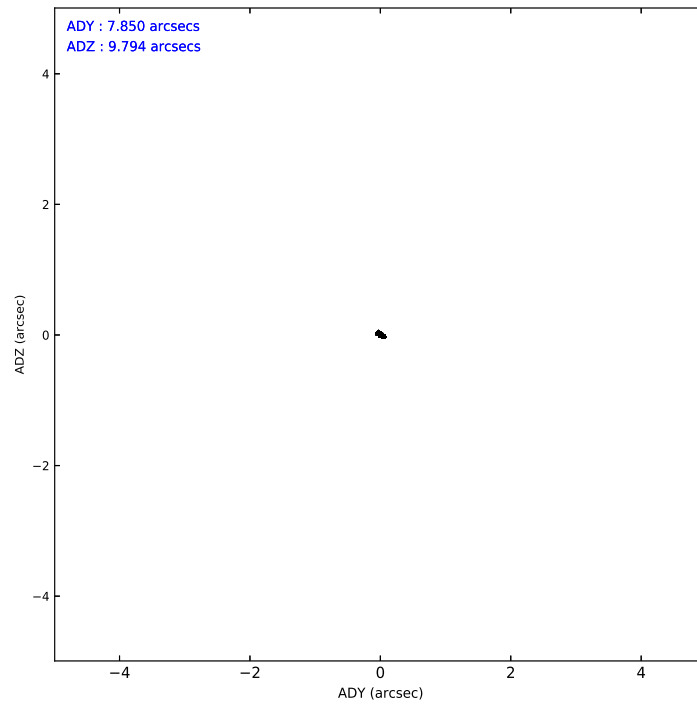
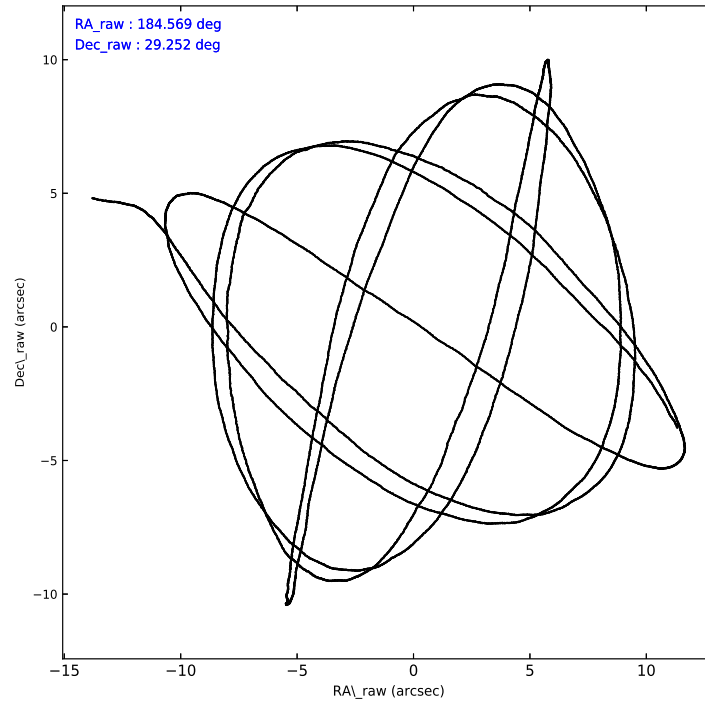
	<b>ccd 7</b>
grade 0 events	533
	4%
grade 1 events	12
	0%
grade 2 events	971
	8%
grade 3 events	556
	5%
grade 4 events	500
	4%
grade 5 events	1056
	9%
grade 6 events	2435
	22%
grade 7 events	4992
	45%

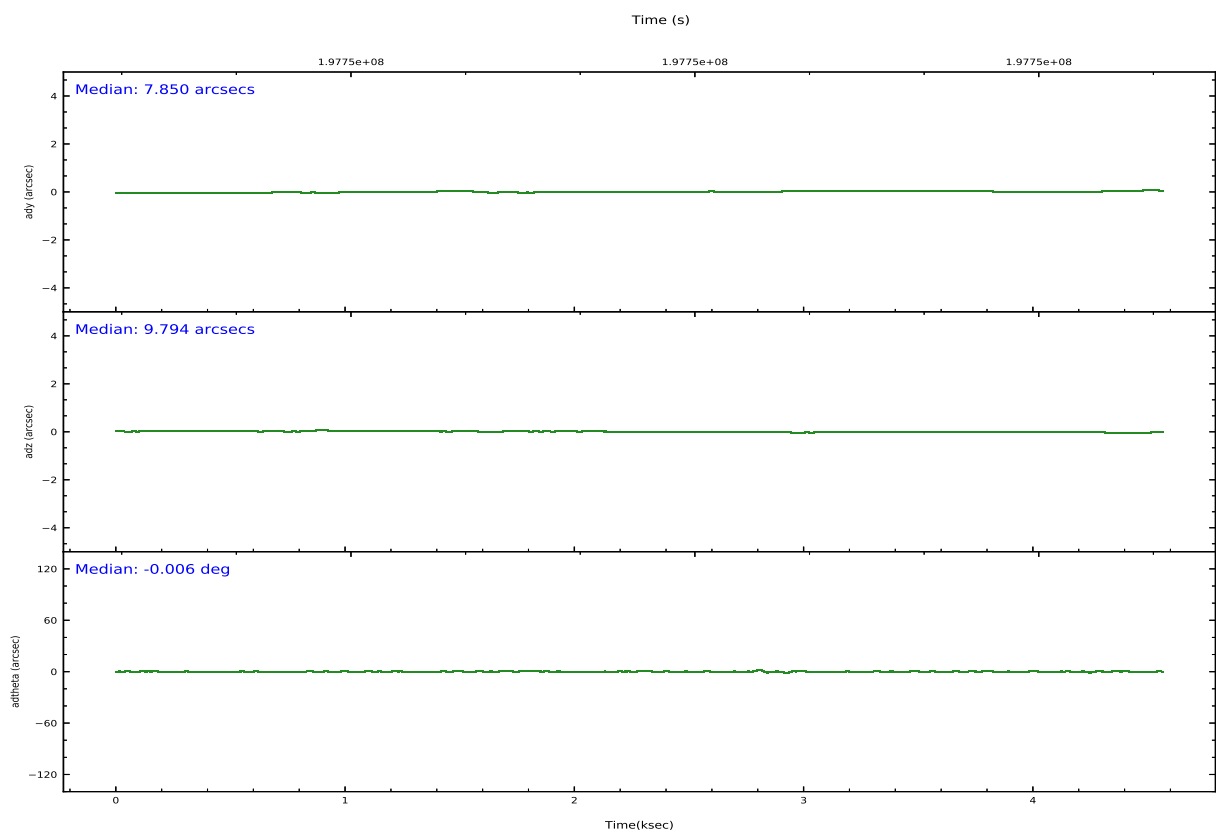
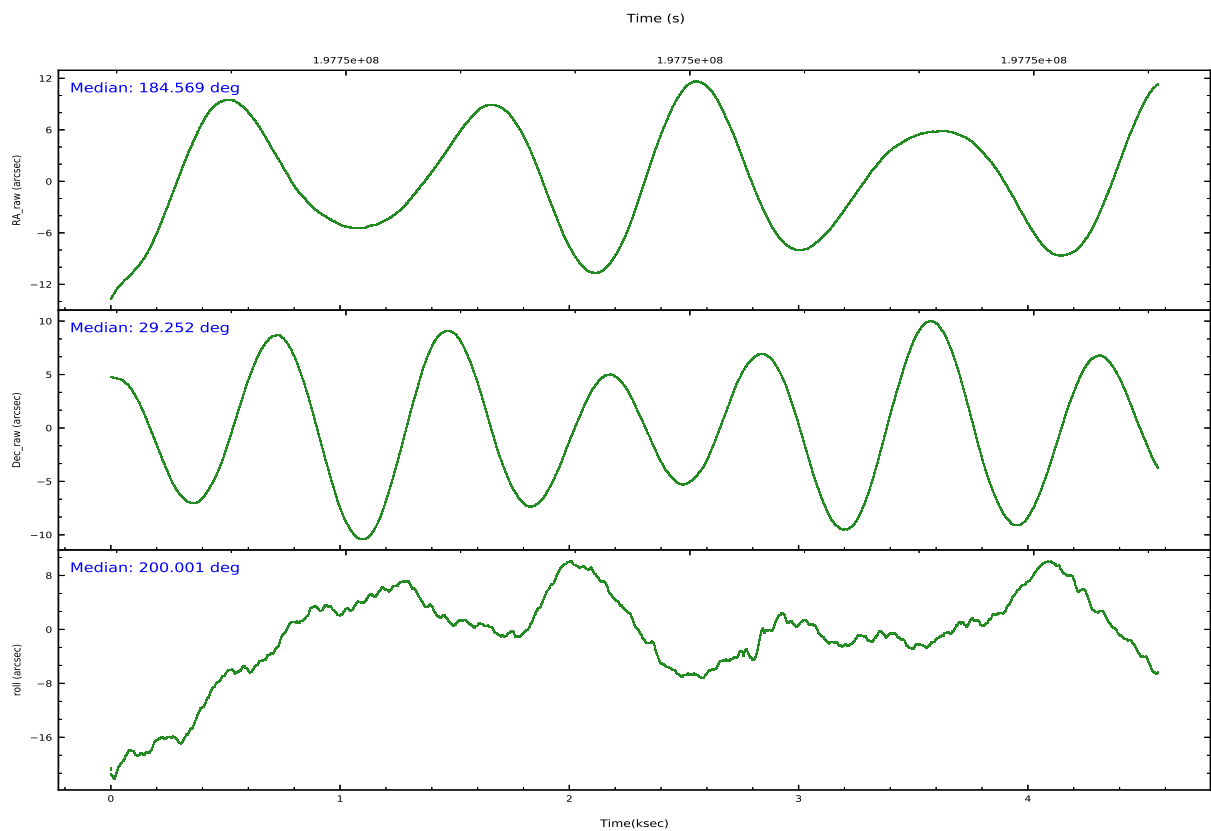


## 2.2 Compared Parameters

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	184.589239	184.57075520242	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	29.273127	29.255444143616	Subarray start row	384	385
[deg] Pointing Roll	199.830015	200.00124258554	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	197748543.184000	197747391.44248			
Observation start date	2004-04-07T18:07:59	2004-04-07T17:49:51			
[s] Observation end time (MET)	197752543.184000	197753100.18023			
Observation end date	2004-04-07T19:14:39	2004-04-07T19:25:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect



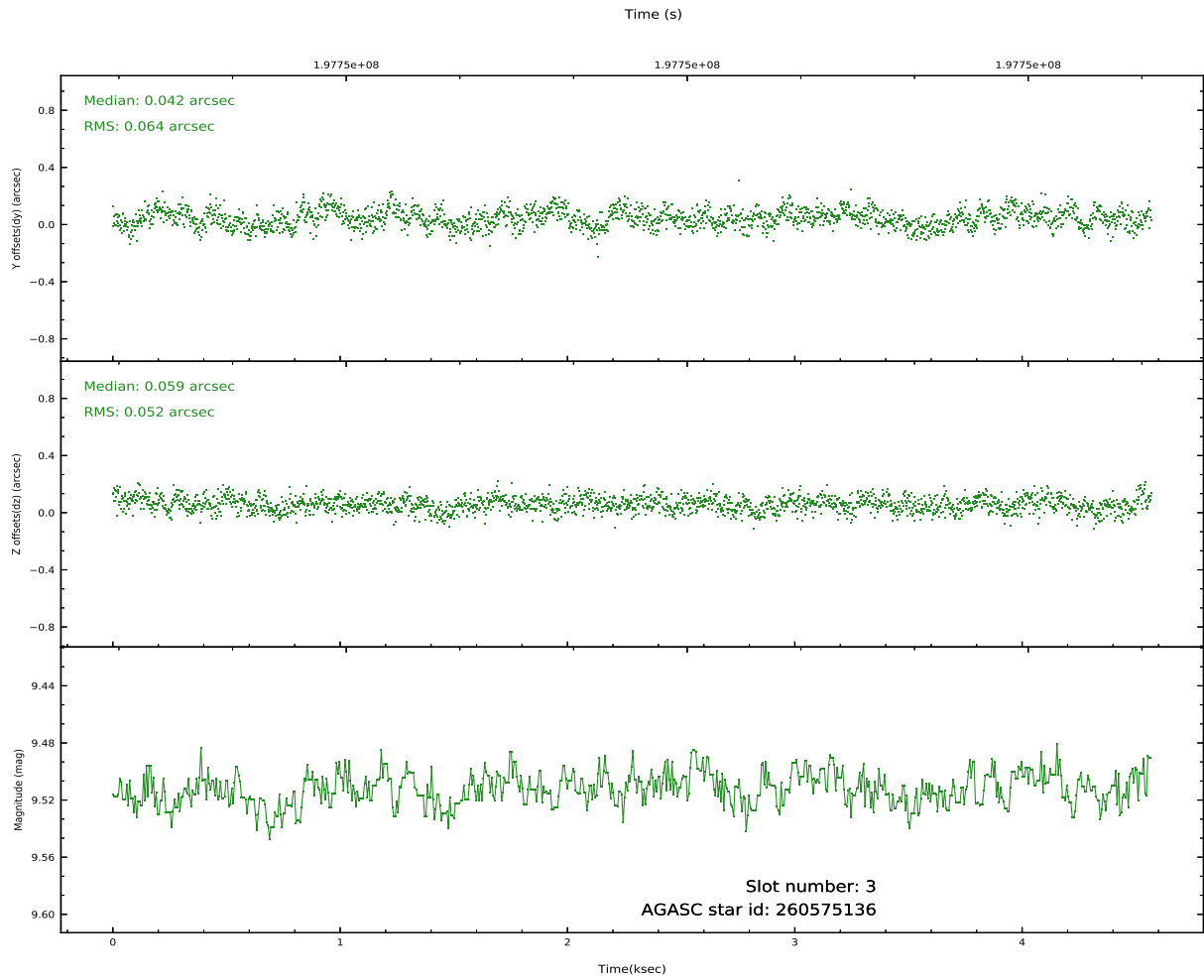
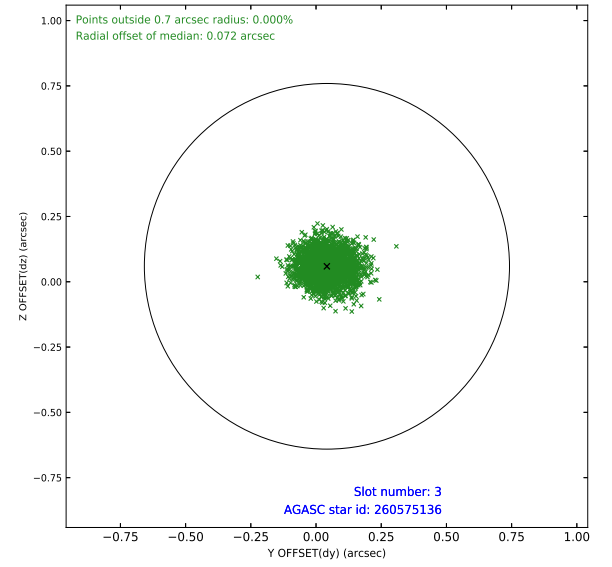
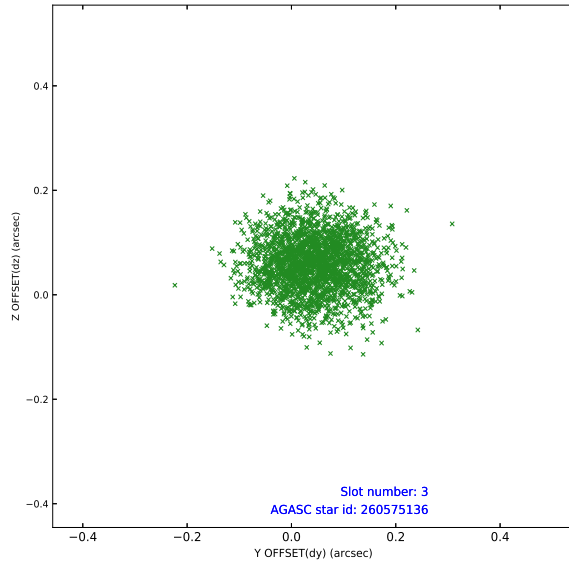


Slot Statistics

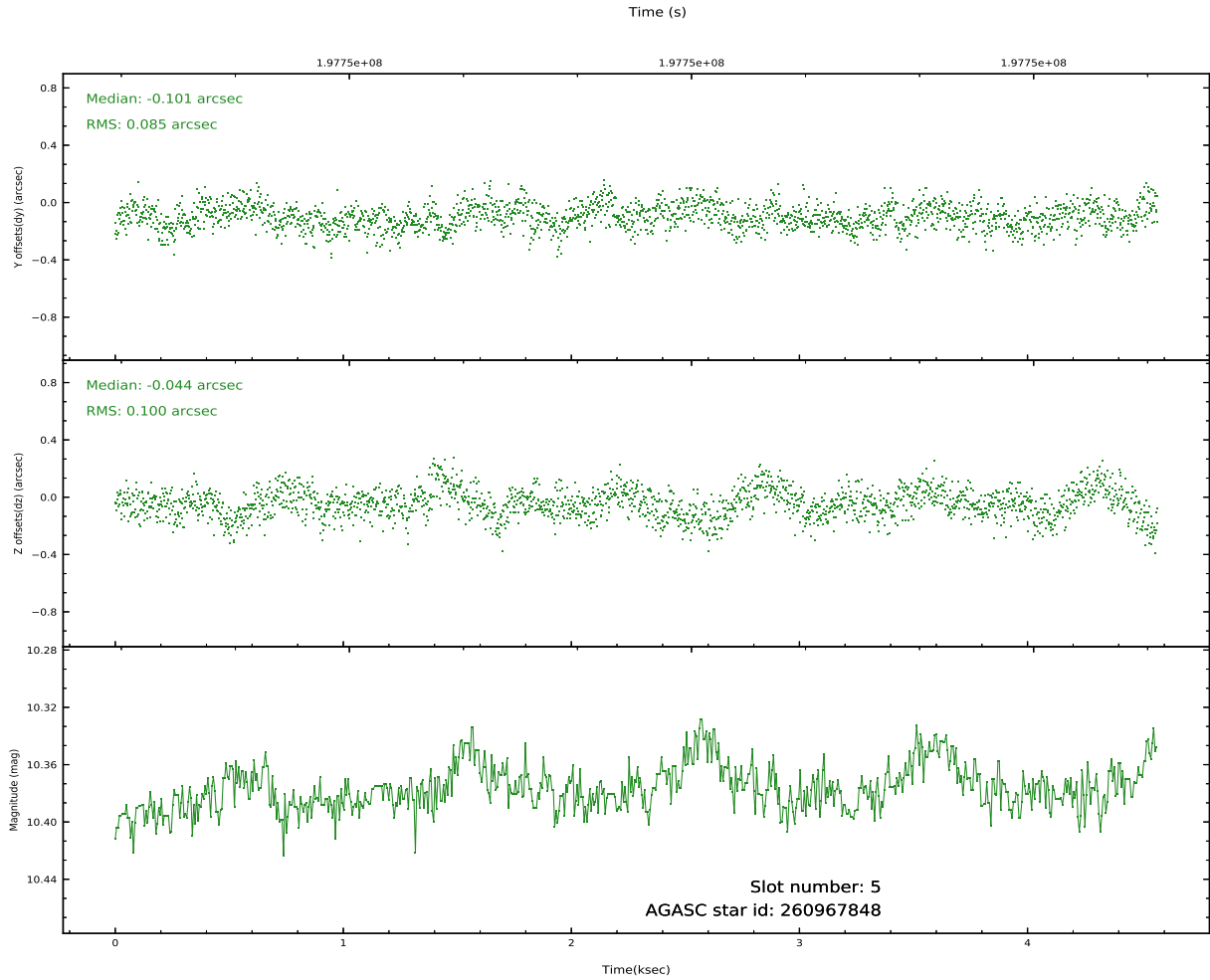
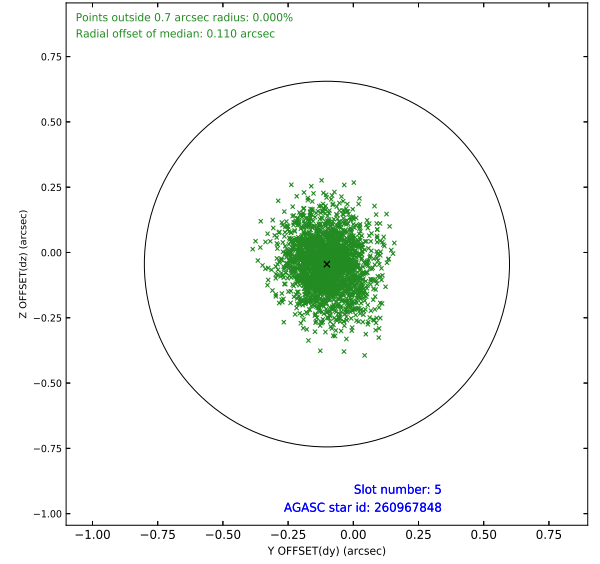
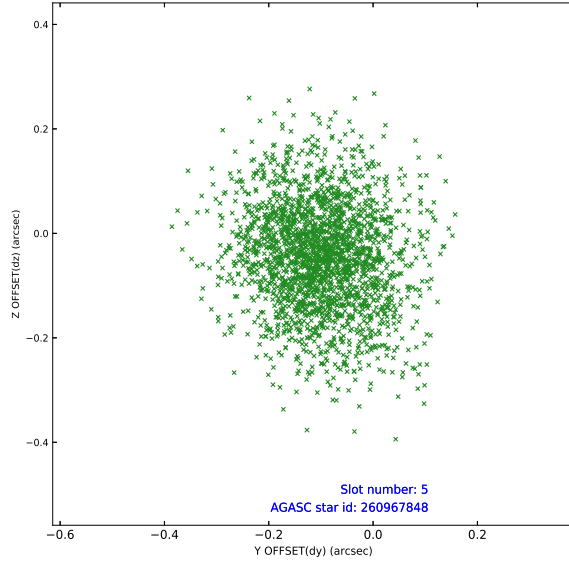
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1115	1.000	-0.067	-0.066	0.006	0.010	0.000000	0.000000	-760.63	-1731
1	FID		ACIS-S-4	7.20	1115	1.000	0.153	0.050	0.005	0.009	0.000000	0.000000	2152.19	176
2	FID		ACIS-S-5	7.23	1115	1.000	-0.117	0.025	0.007	0.011	0.000000	0.000000	-1811.86	171
3	GUIDE	used	260575136	9.51	2229	1.000	0.042	0.059	0.089	0.141	184.065390	28.836709	2085.66	914
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	260967848	10.38	2229	1.000	-0.101	-0.044	0.138	0.229	184.894103	29.822741	-1566.59	-1538
6	GUIDE	used	260969480	9.07	2230	1.000	0.010	0.177	0.082	0.133	184.329513	28.726397	1438.16	1572
7	GUIDE	used	260979504	6.11	2229	1.000	0.045	-0.195	0.081	0.133	184.377399	28.937186	1038.56	911

## 2.4 Star Slots

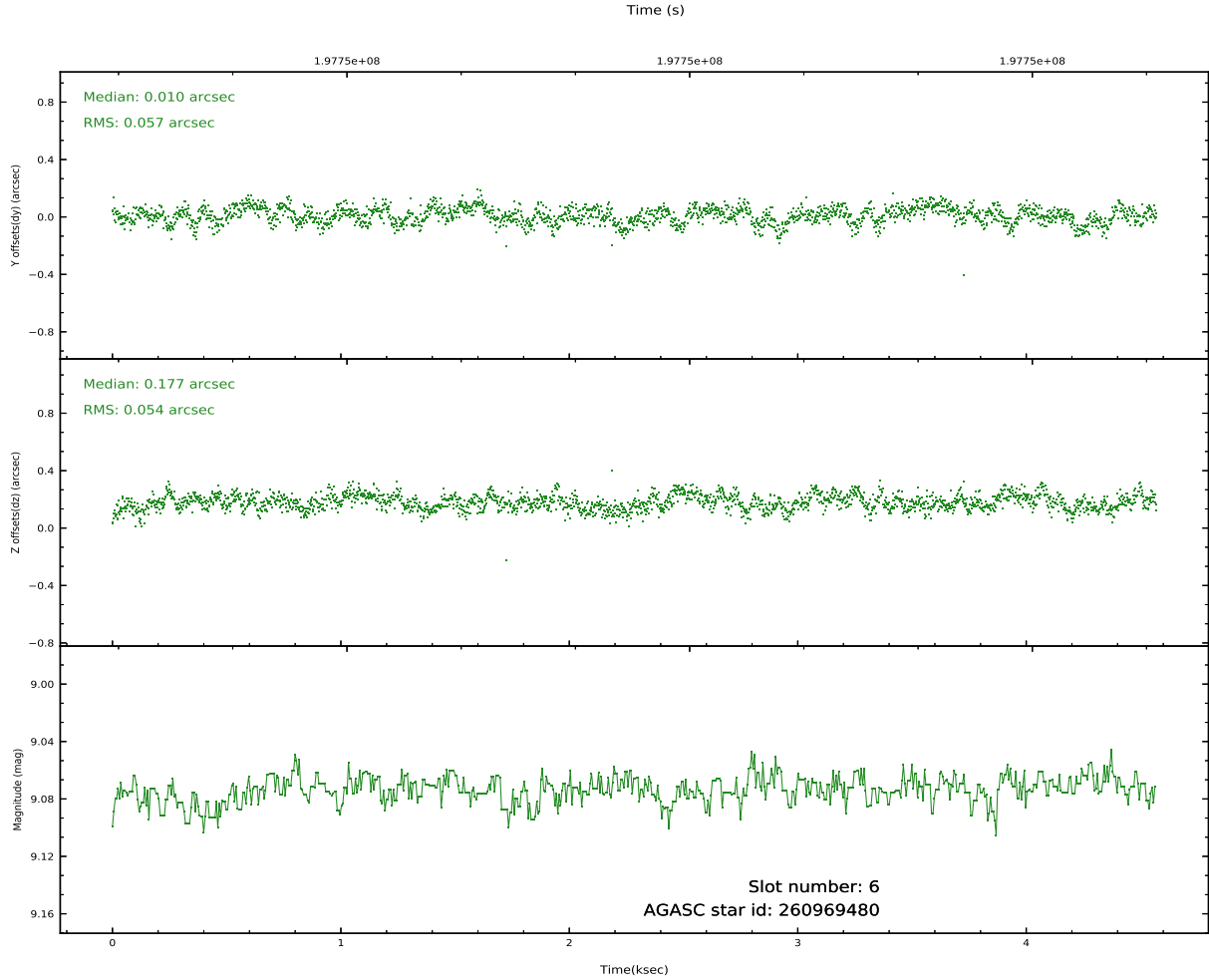
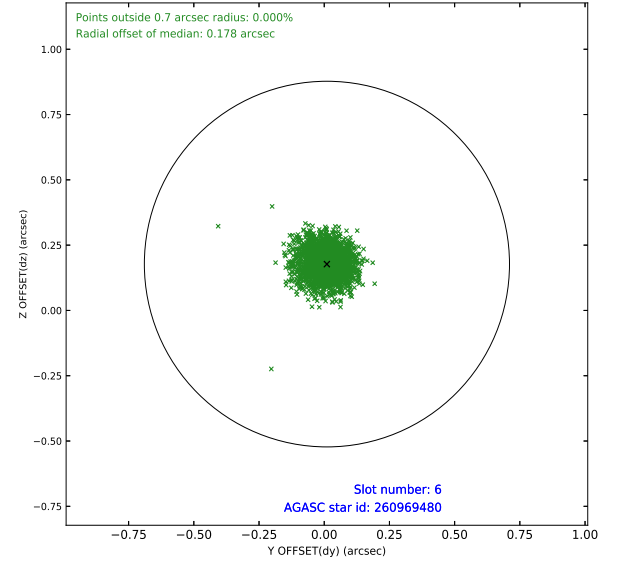
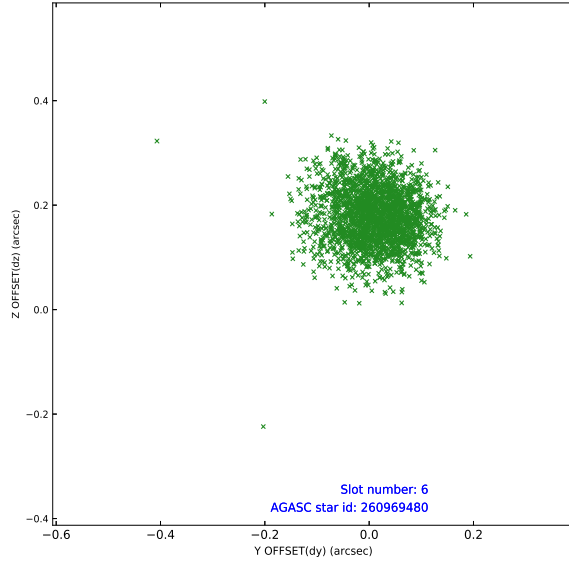
### 2.4.1 Slot 3



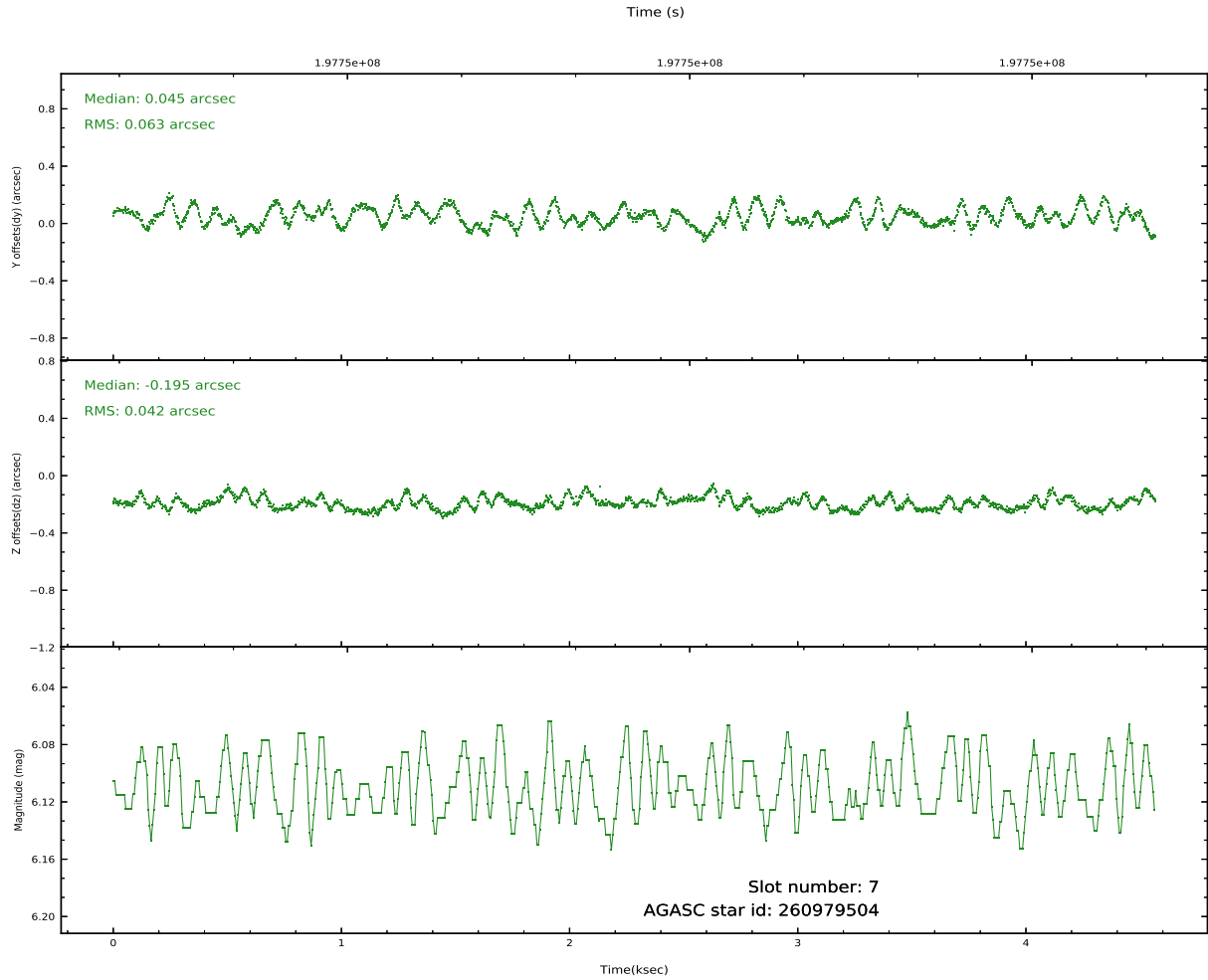
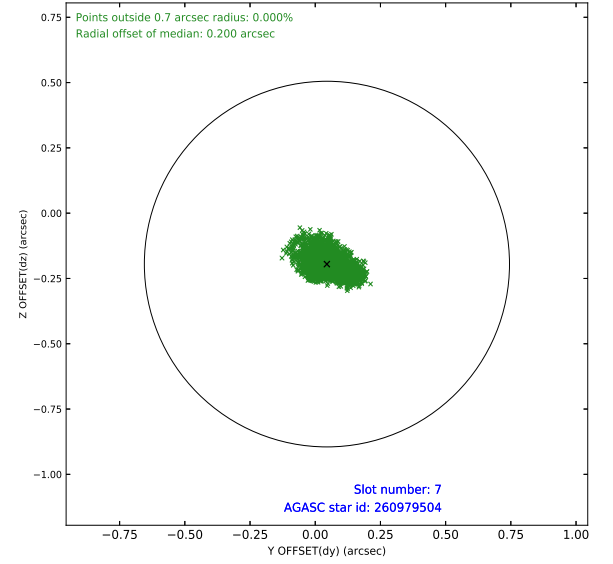
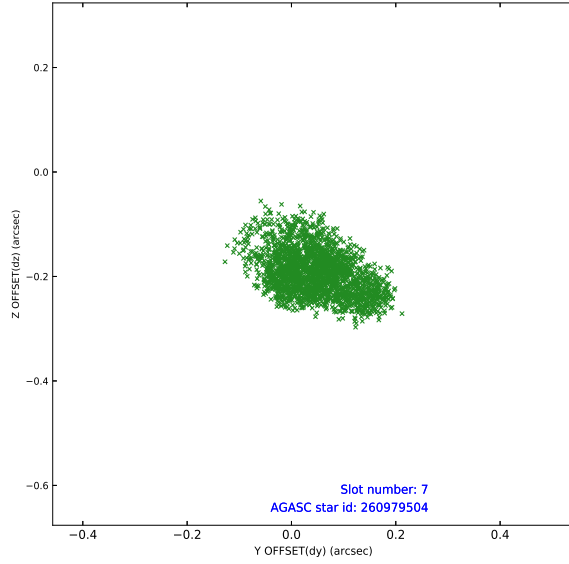
## 2.4.2 Slot 5



### 2.4.3 Slot 6



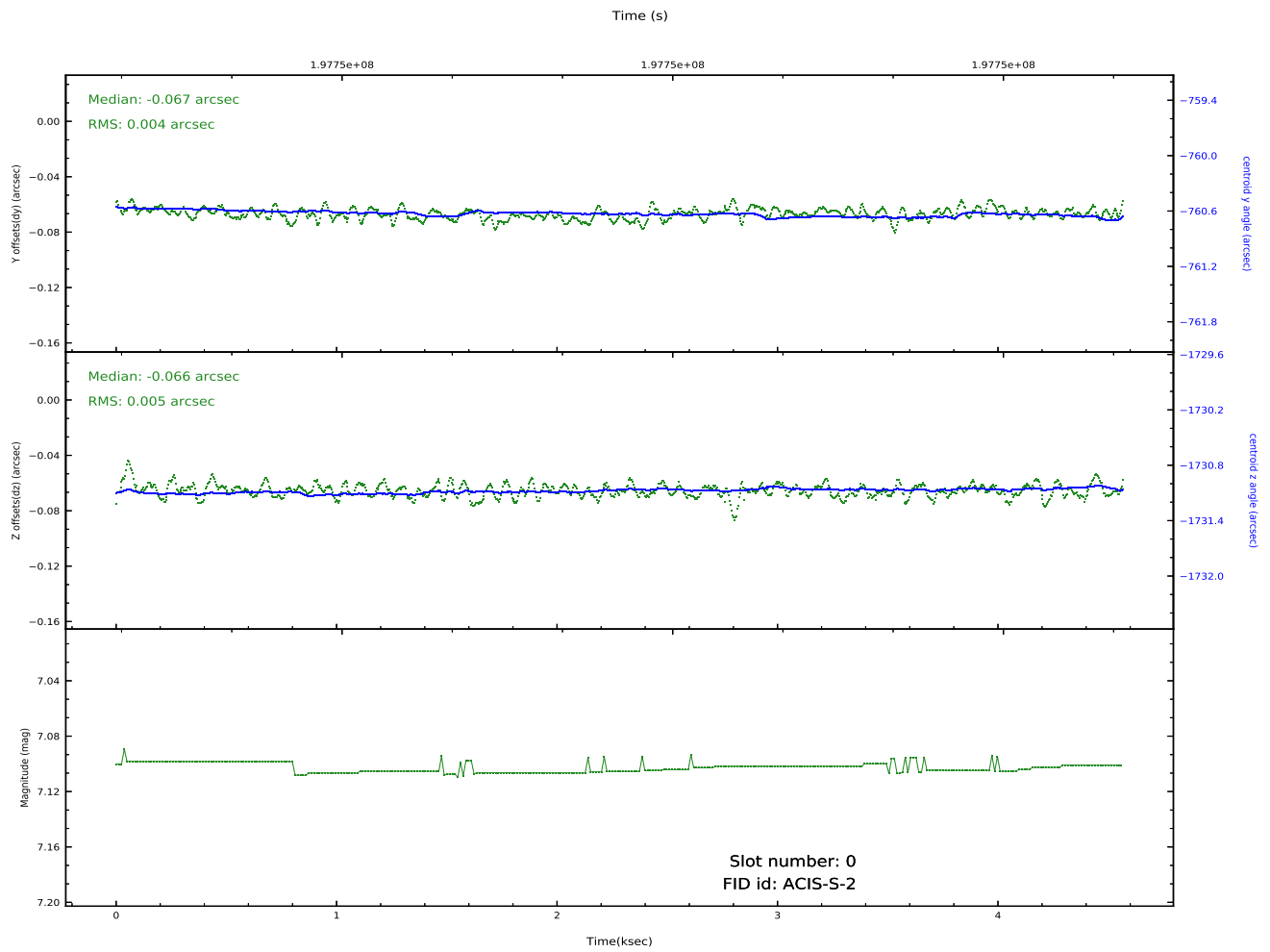
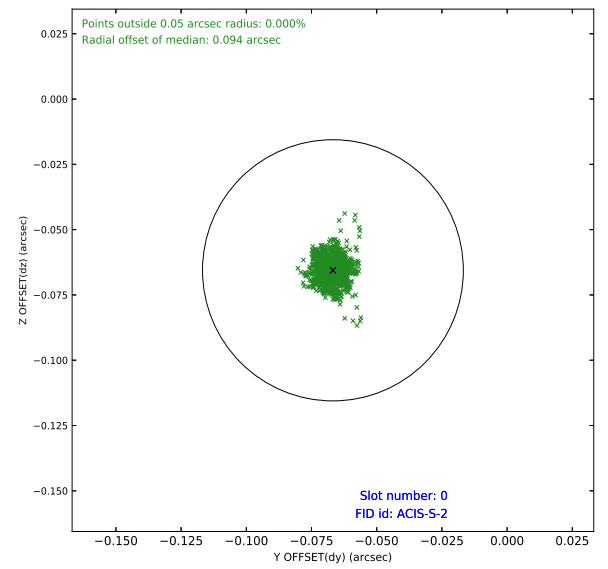
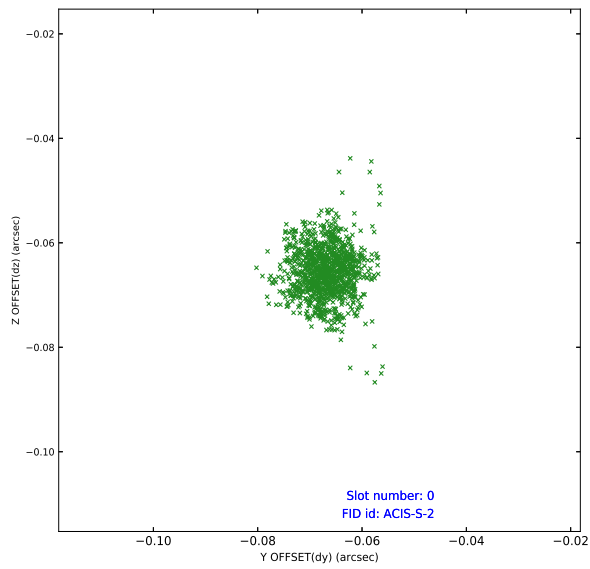
## 2.4.4 Slot 7



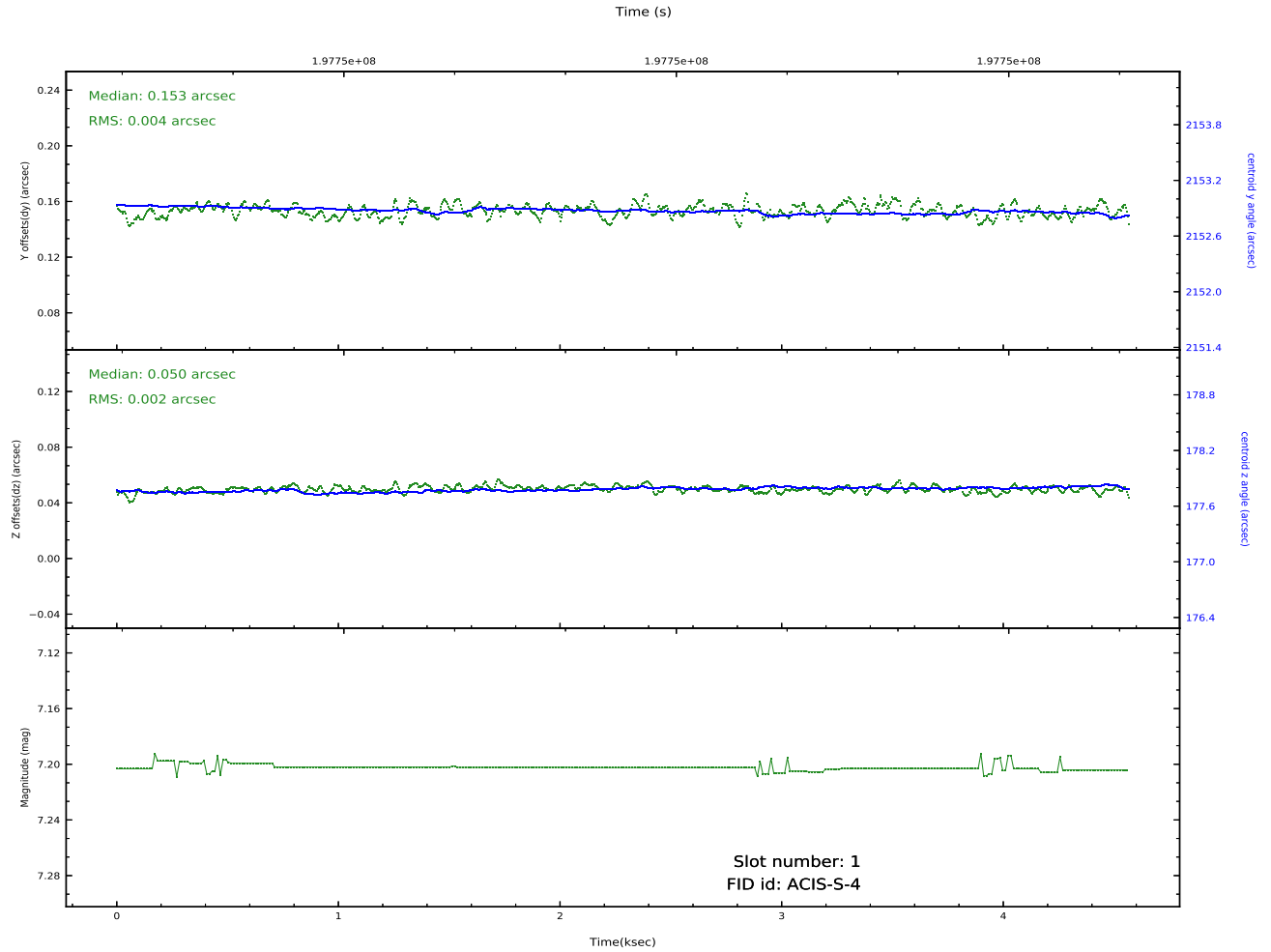
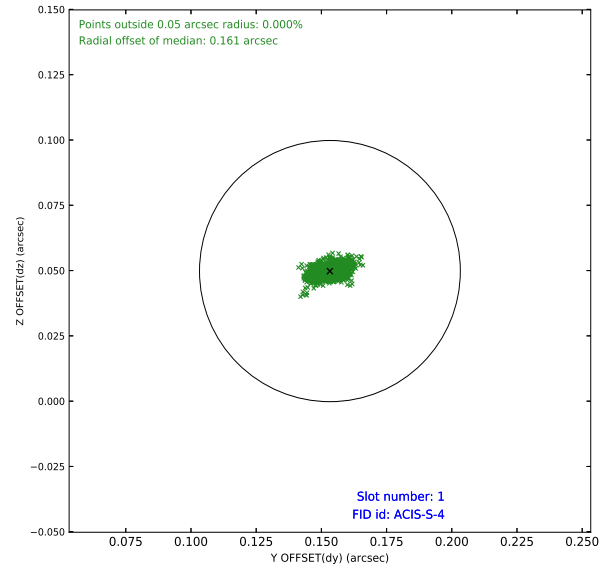
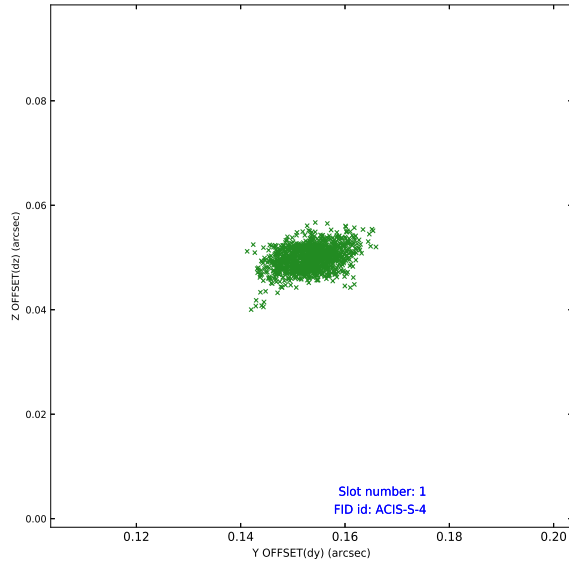


## 2.5 FID Slots

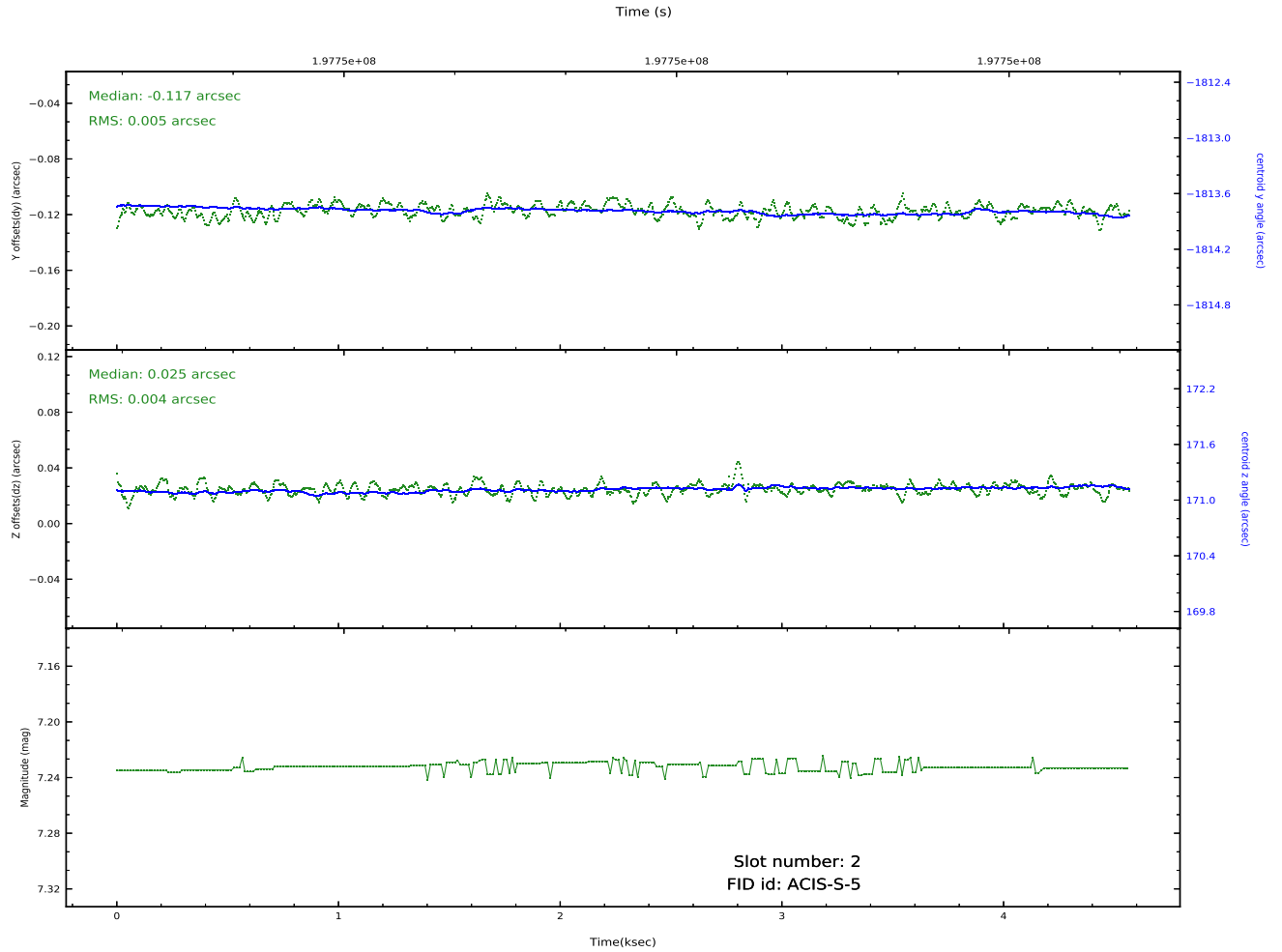
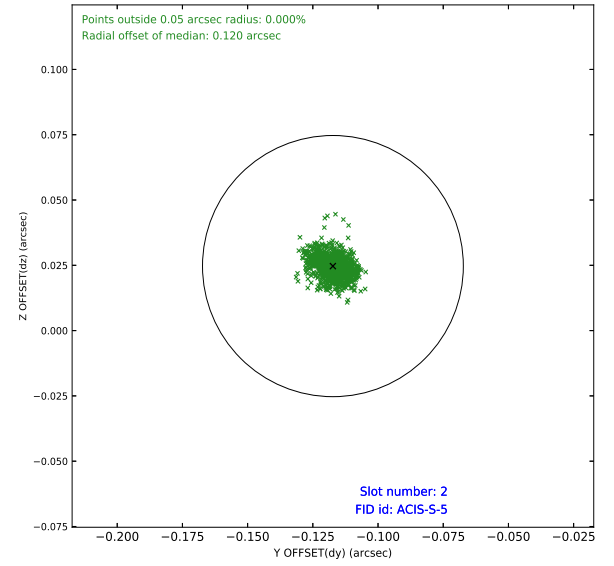
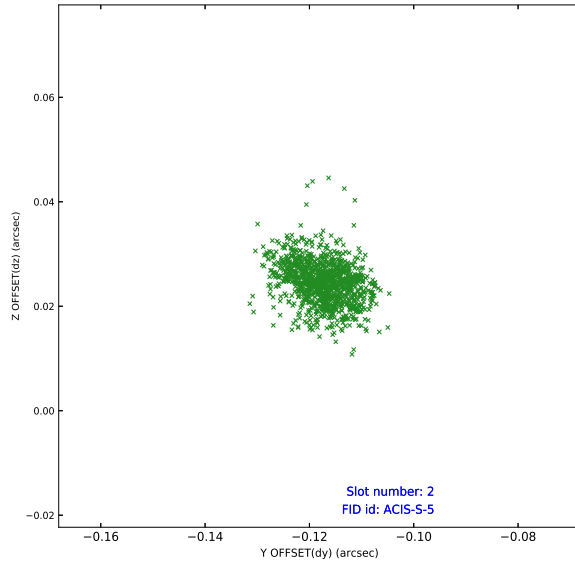
### 2.5.1 Slot 0



## 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)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.568

## A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.