

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20407 - L2 Version 3
Chandra X-Ray Center

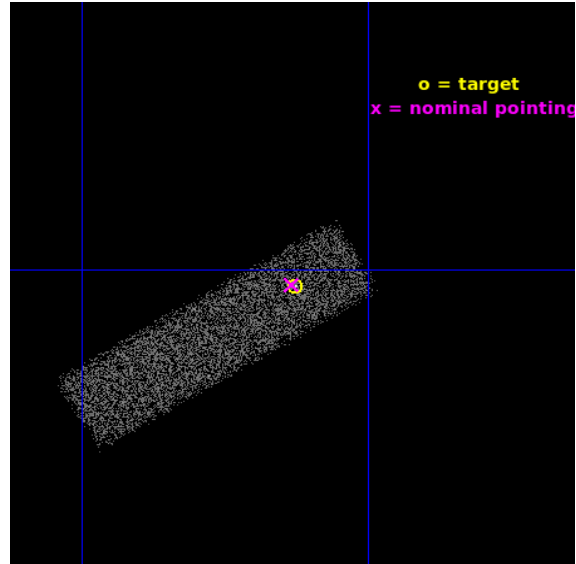
L2 Processing Date : Oct 25 2020

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1 Front

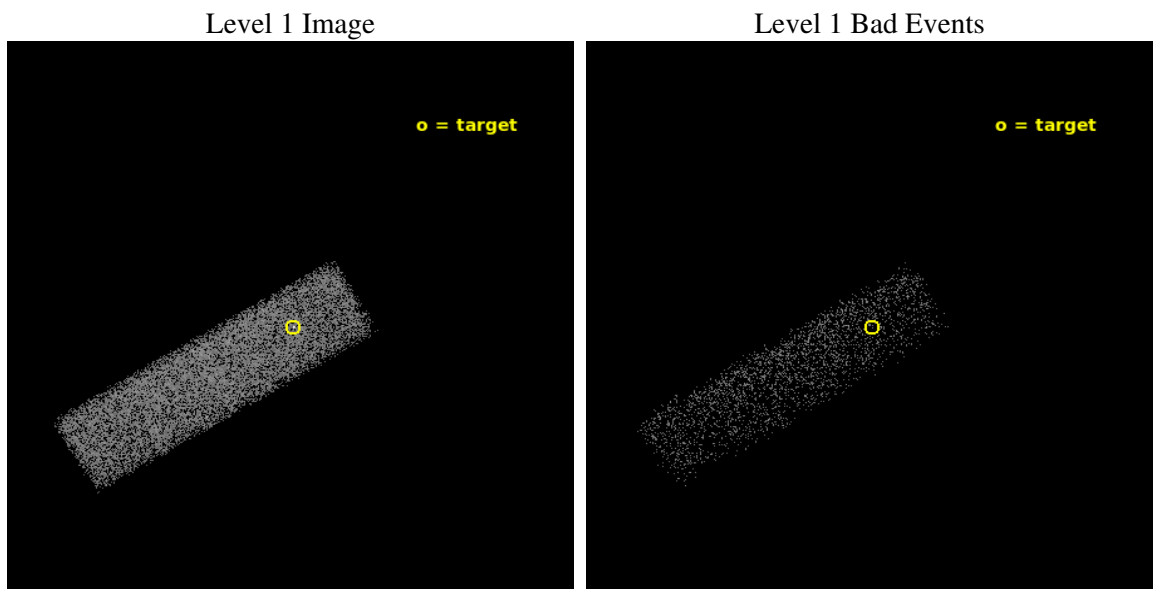
seq_num	703512	Sequence number
obs_id	20407	Observation id
title	A SEARCH FOR BEACONS IN THE EARLY UNIVERSE: A SURVEY OF HIGH REDSHIFT RADIO JETS	Proposal title
observer	Daniel Schwartz	Principal investigator
object	J1616+0459	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.156667	Observer's specified target RA [deg]
dec_targ	4.992444	Observer's specified target Dec [deg]
ra_nom	244.15823345846	Nominal RA [deg]
dec_nom	4.9929688732393	Nominal Dec [deg]
roll_nom	149.1390441658	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9970.3994057178	Sum of GTIs [s]
livetime	9483.8765392542	Livetime [s]
ontime7	9970.3994057178	Sum of GTIs [s]
l2events	11576	Number of level 2 events



2 OBI

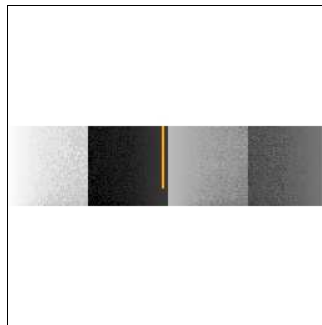
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9970.3994057178	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	9970.3994057178	Sum of GTIs [s]
date	2020-10-25T21:38:16	Date and time of file creation	l1events	24495	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

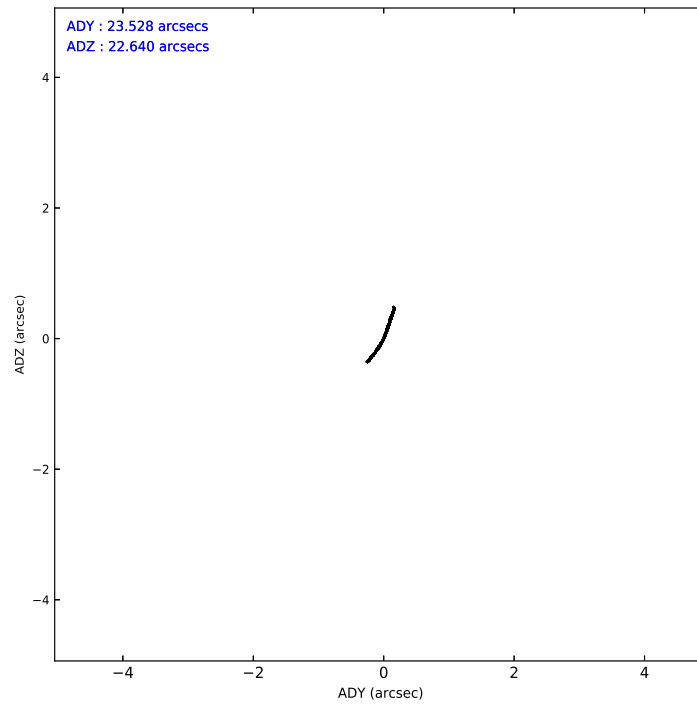
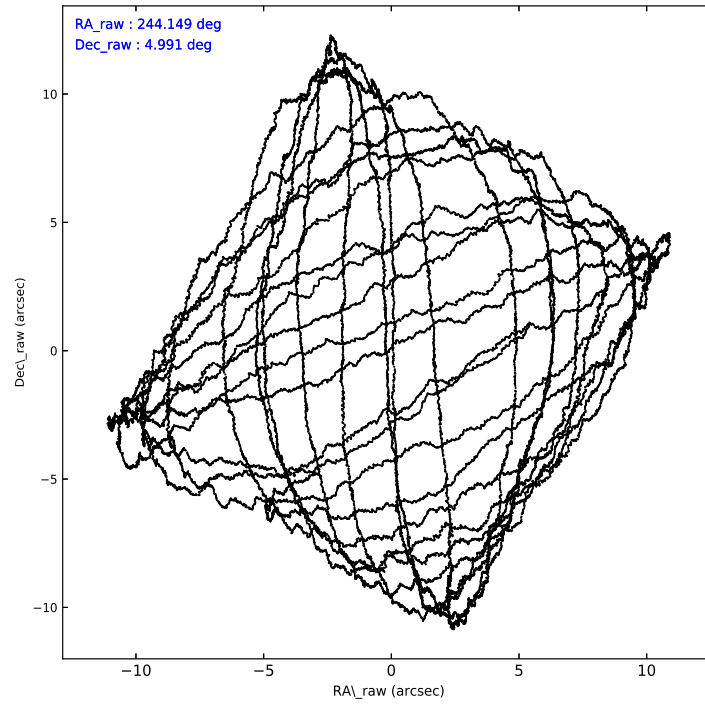
	ccd 7
level 1 events	24495
rejected events	12523
rejected %	51%

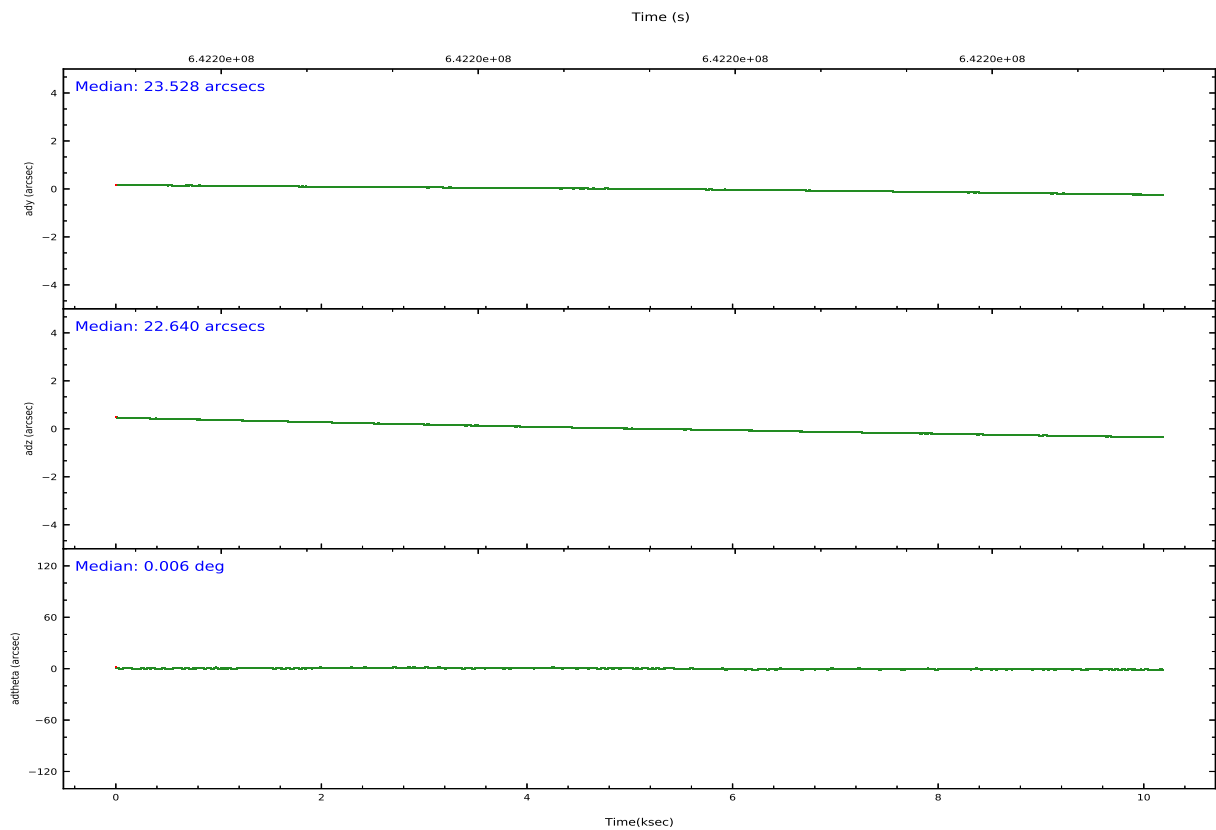
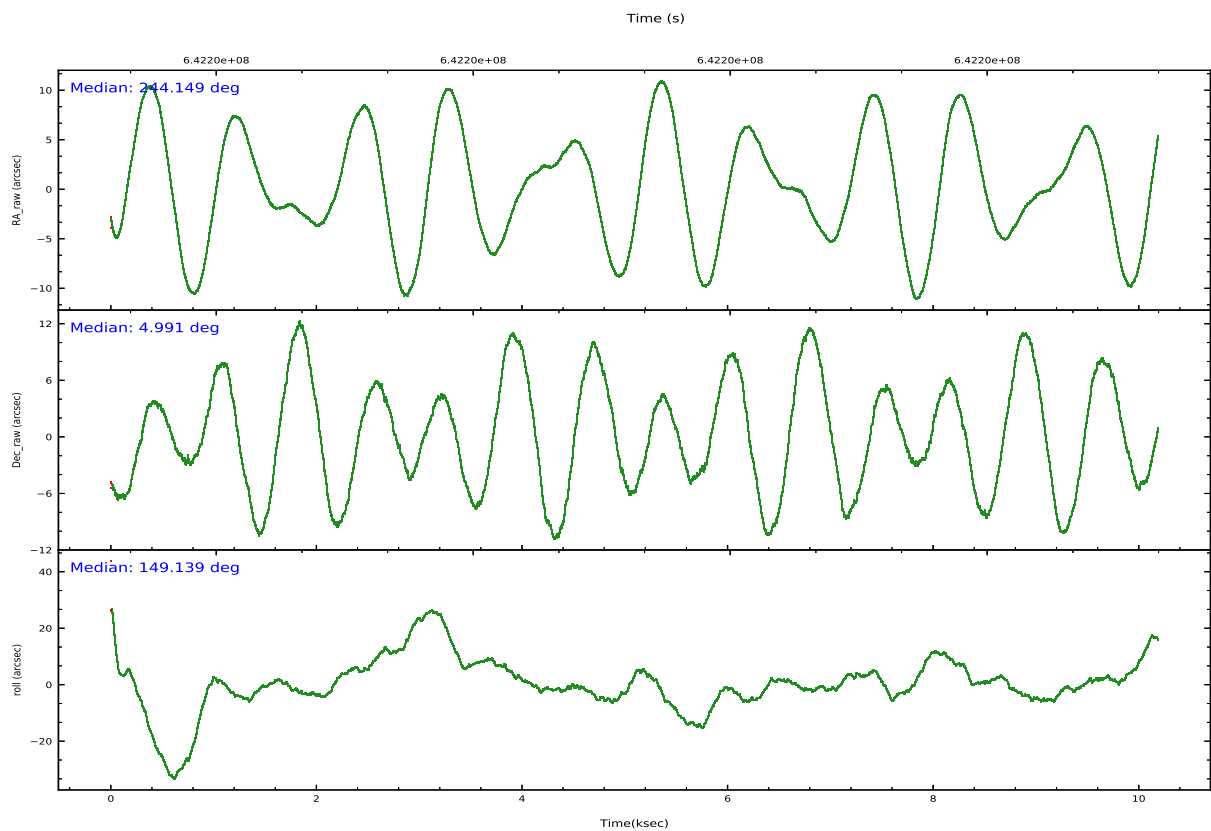
	ccd 7
grade 0 events	1227
	5%
grade 1 events	42
	0%
grade 2 events	2456
	10%
grade 3 events	1421
	5%
grade 4 events	1325
	5%
grade 5 events	2515
	10%
grade 6 events	5543
	22%
grade 7 events	9966
	40%

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	244.176541	244.15823345846	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	4.990799	4.9929688732393	Subarray start row	385	385
[deg] Pointing Roll	148.998276	149.1390441658	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)	642196664.184000	642195621.5905499			
Observation start date	2018-05-08T19:56:35	2018-05-08T19:40:21			
[s] Observation end time (MET)	642206664.184000	642207411.65374			
Observation end date	2018-05-08T22:43:15	2018-05-08T22:56:51			
Read mode	TIMED	TIMED			

2.3 Aspect



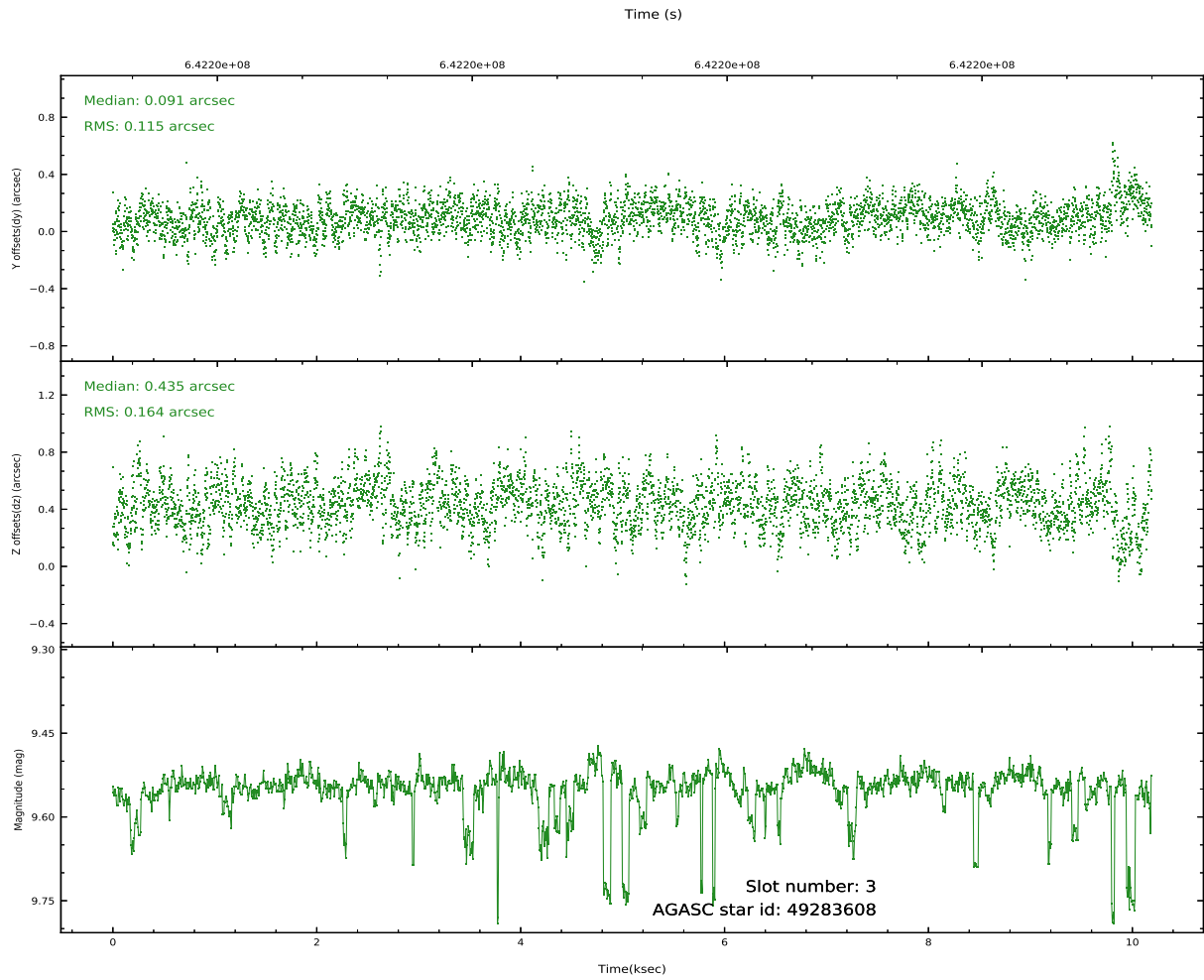
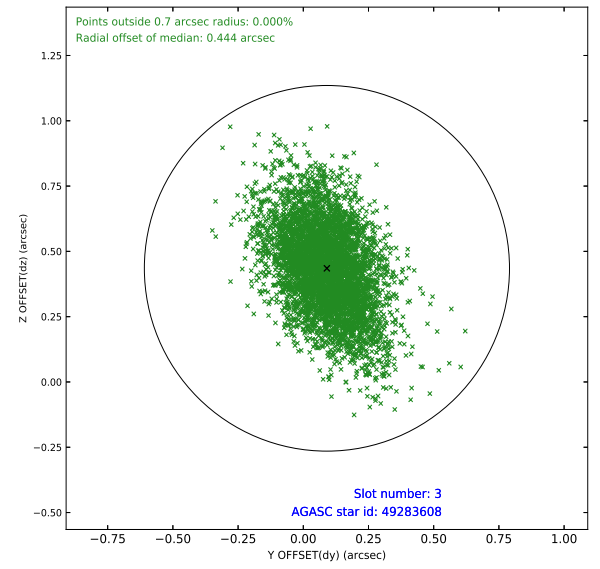
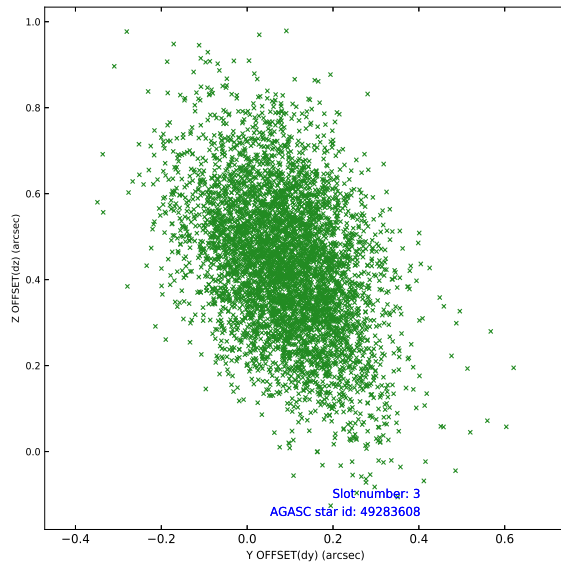


Slot Statistics

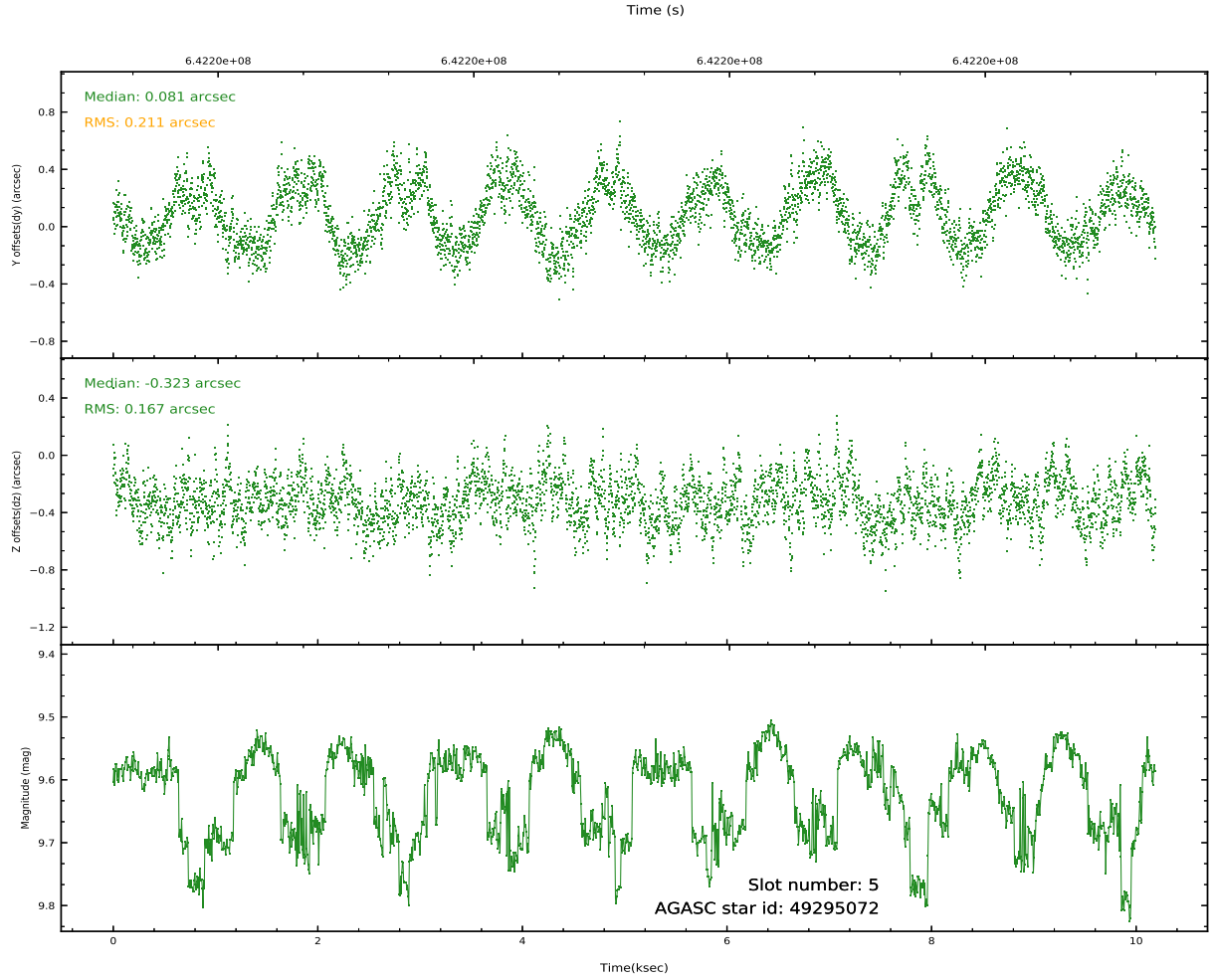
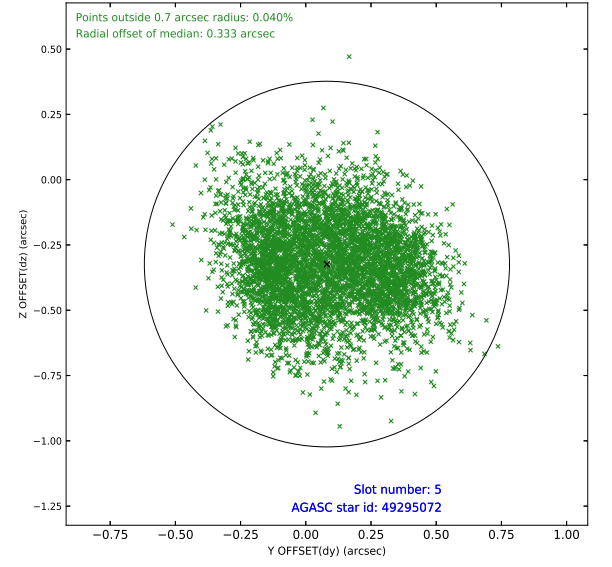
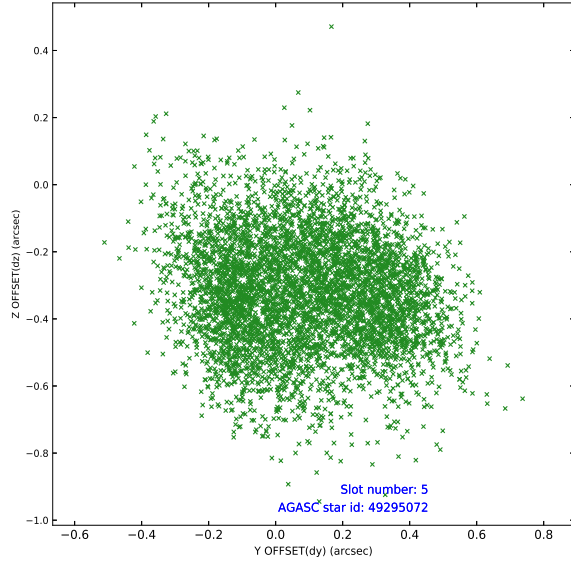
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	2486	1.000	0.167	-0.104	0.015	0.023	0.000000	0.000000	-776.85	-1744
1	FID		ACIS-S-4	7.13	2485	1.000	0.096	-0.052	0.011	0.019	0.000000	0.000000	2136.44	163
2	FID		ACIS-S-5	7.14	2483	1.000	-0.294	0.166	0.012	0.020	0.000000	0.000000	-1829.17	158
3	GUIDE	used	49283608	9.54	4959	1.000	0.091	0.435	0.206	0.359	244.765921	5.392534	-1064.48	-2328
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	49295072	9.61	4963	1.000	0.081	-0.323	0.292	0.442	244.485964	4.655001	-1573.78	463
6	GUIDE	used	49295648	8.72	4970	1.000	-0.054	0.013	0.191	0.340	244.294111	4.463489	-1339.59	1409
7	GUIDE	used	49290056	9.39	4966	1.000	-0.130	-0.121	0.292	0.451	244.216469	5.419076	671.78	-1394

2.4 Star Slots

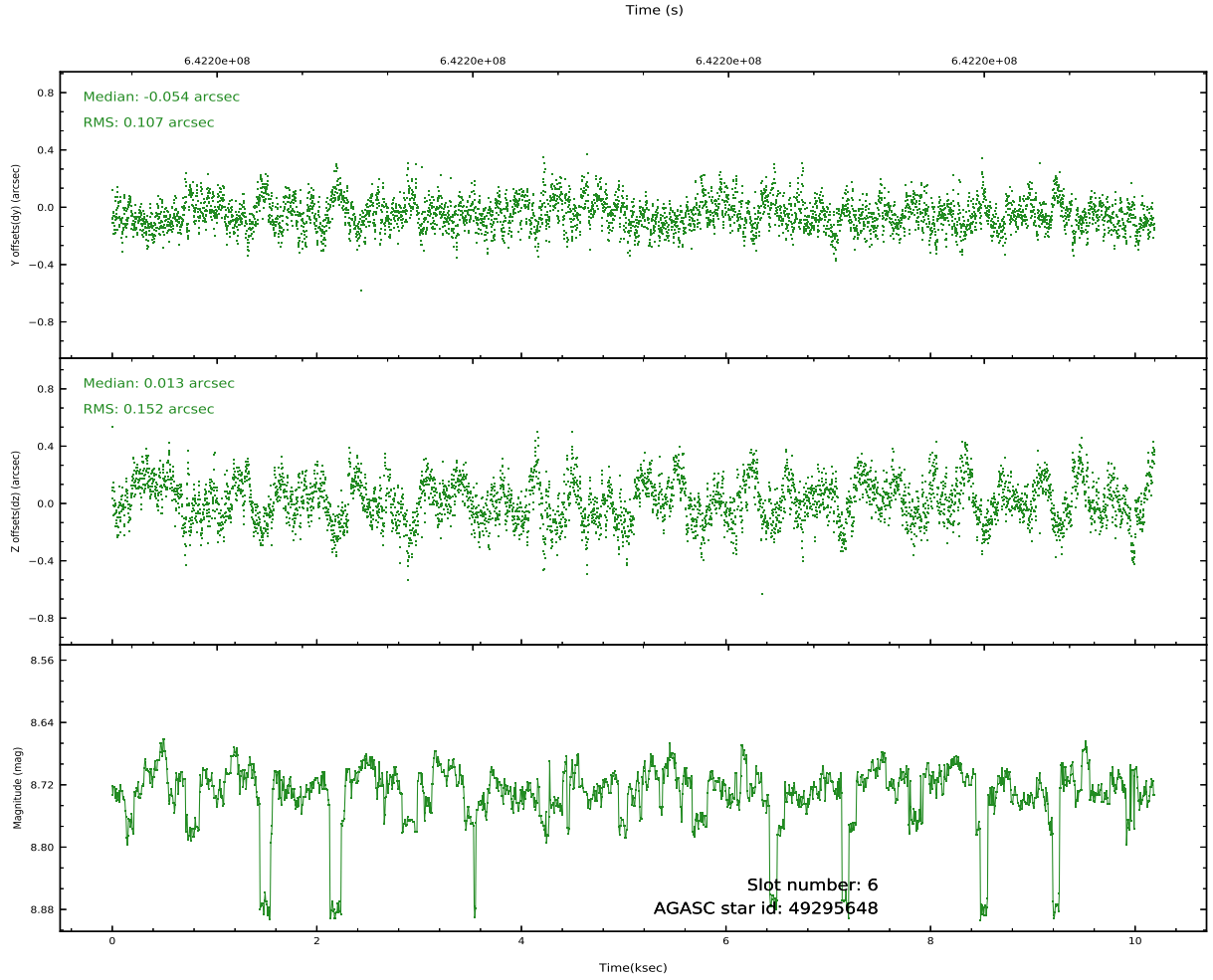
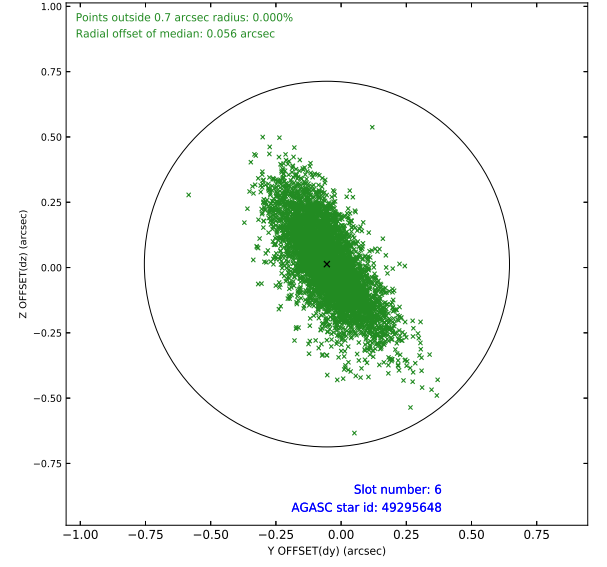
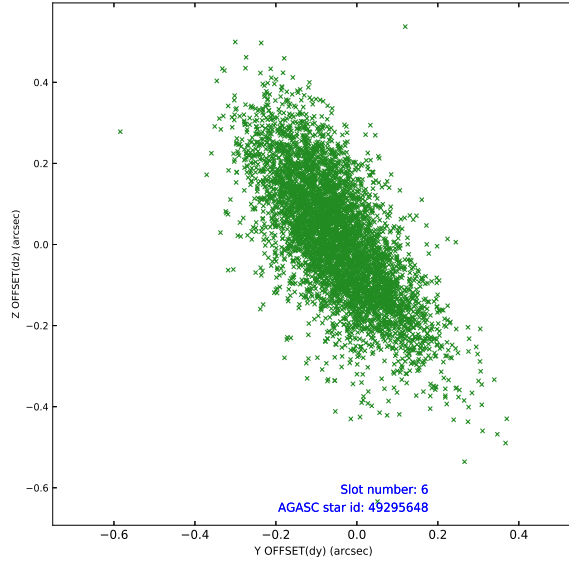
2.4.1 Slot 3



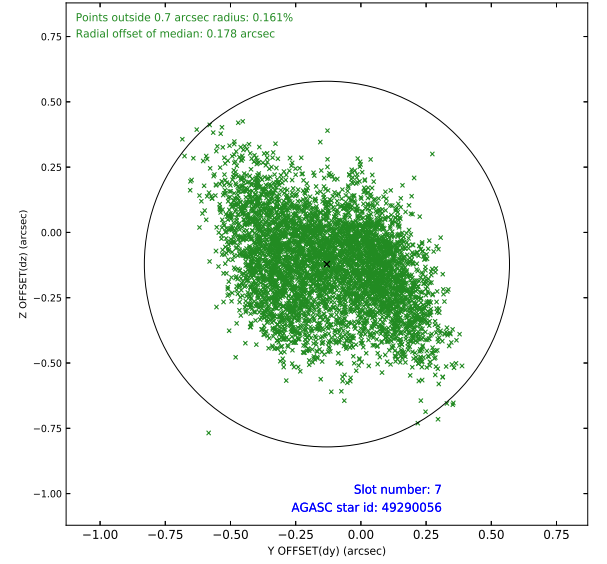
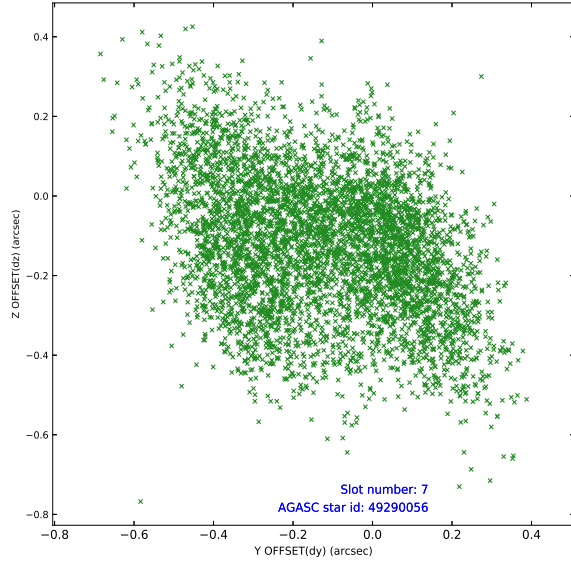
2.4.2 Slot 5



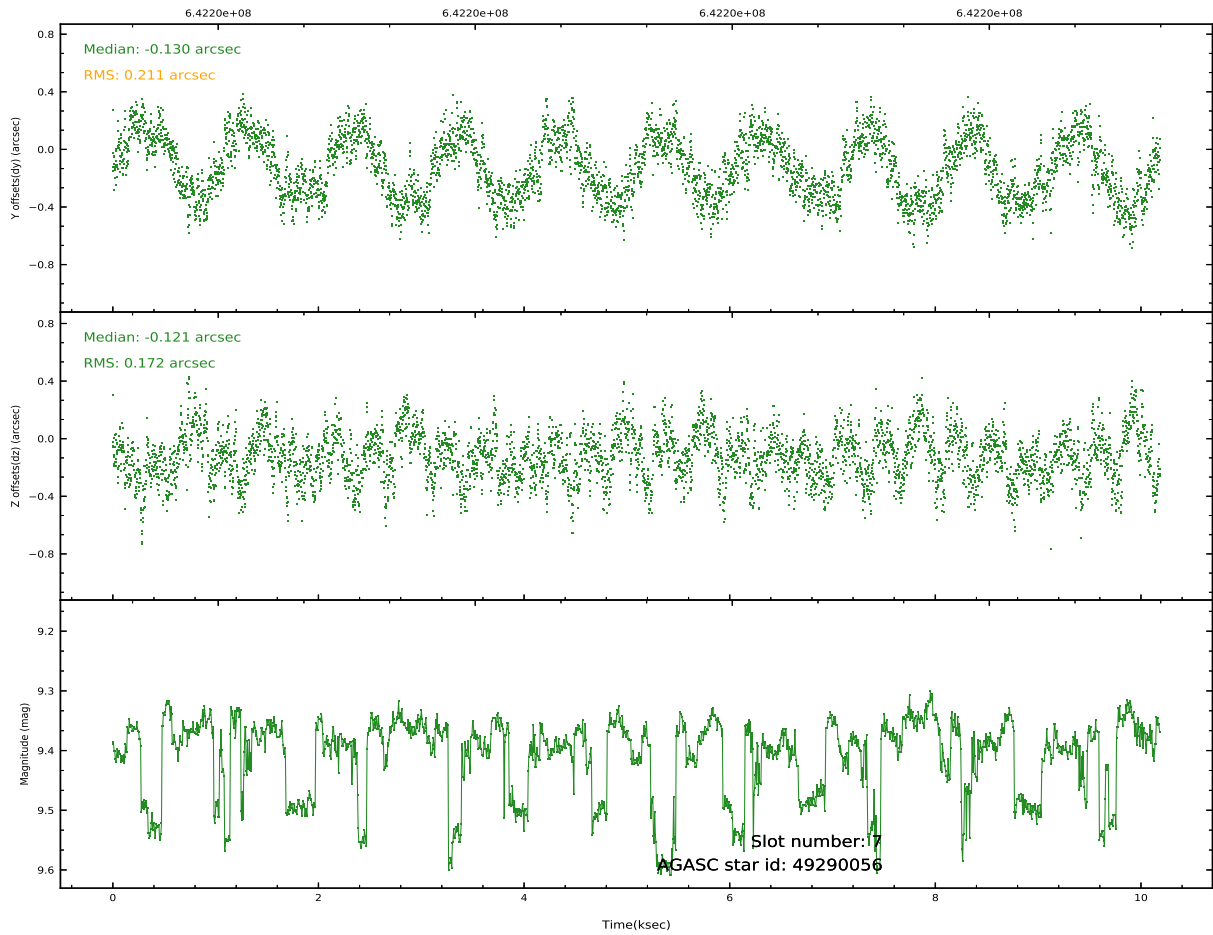
2.4.3 Slot 6



2.4.4 Slot 7

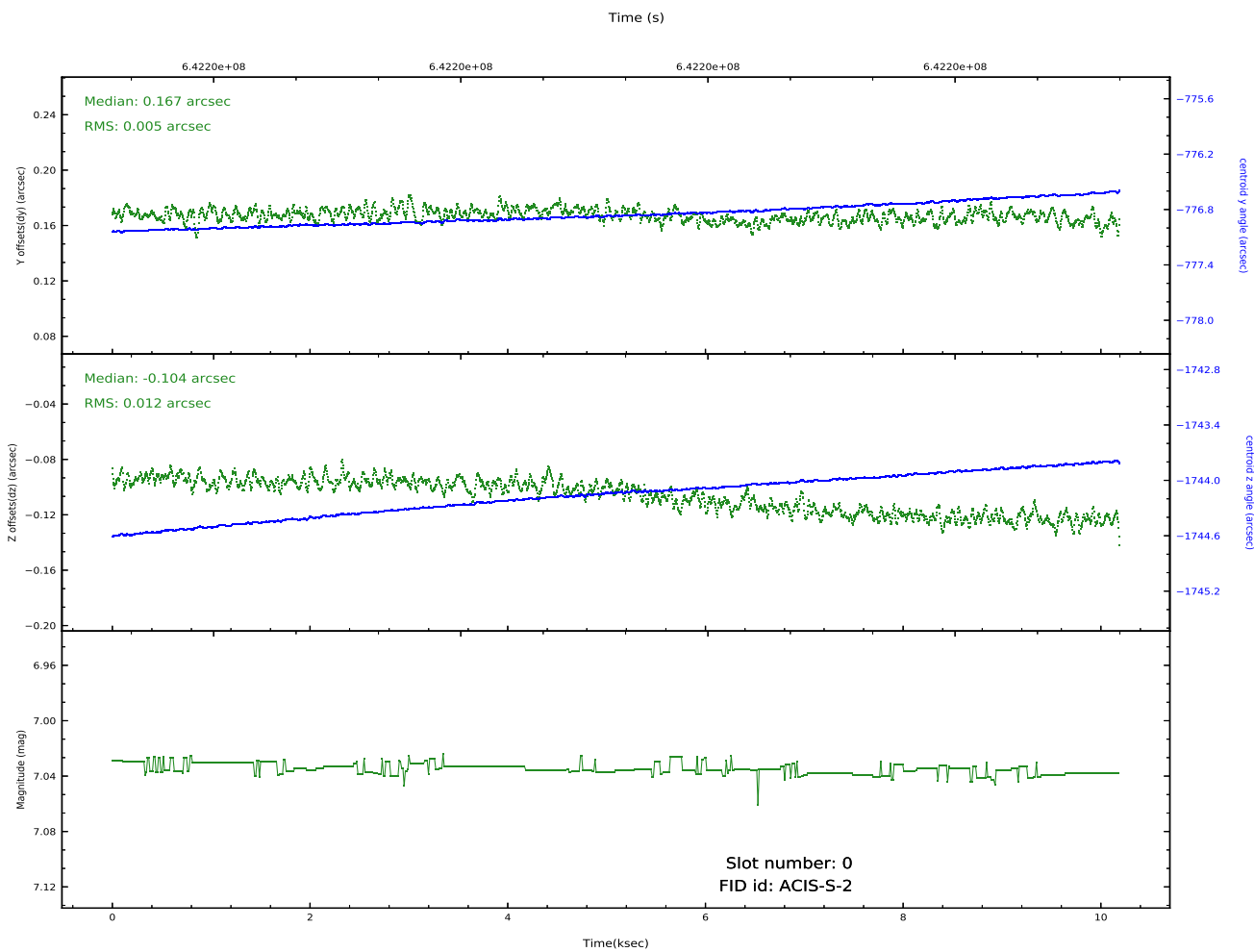
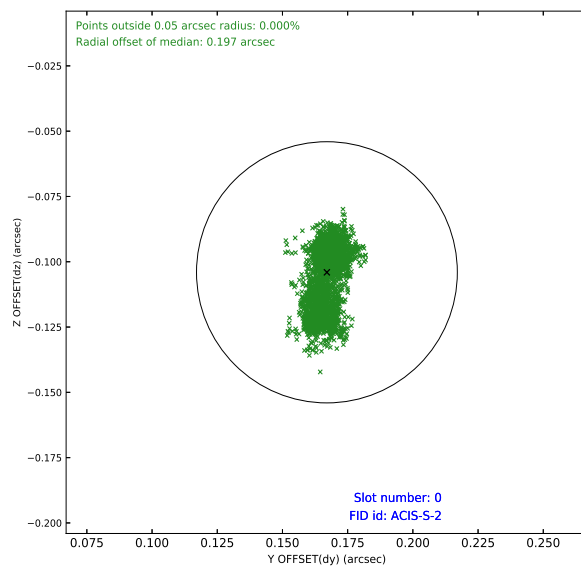
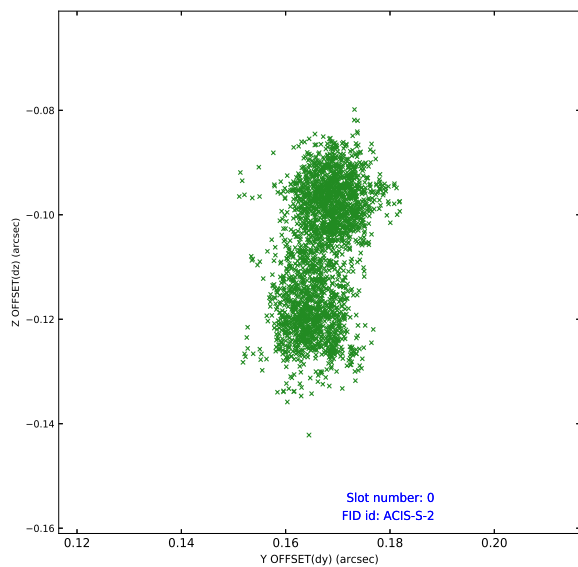


Time (s)

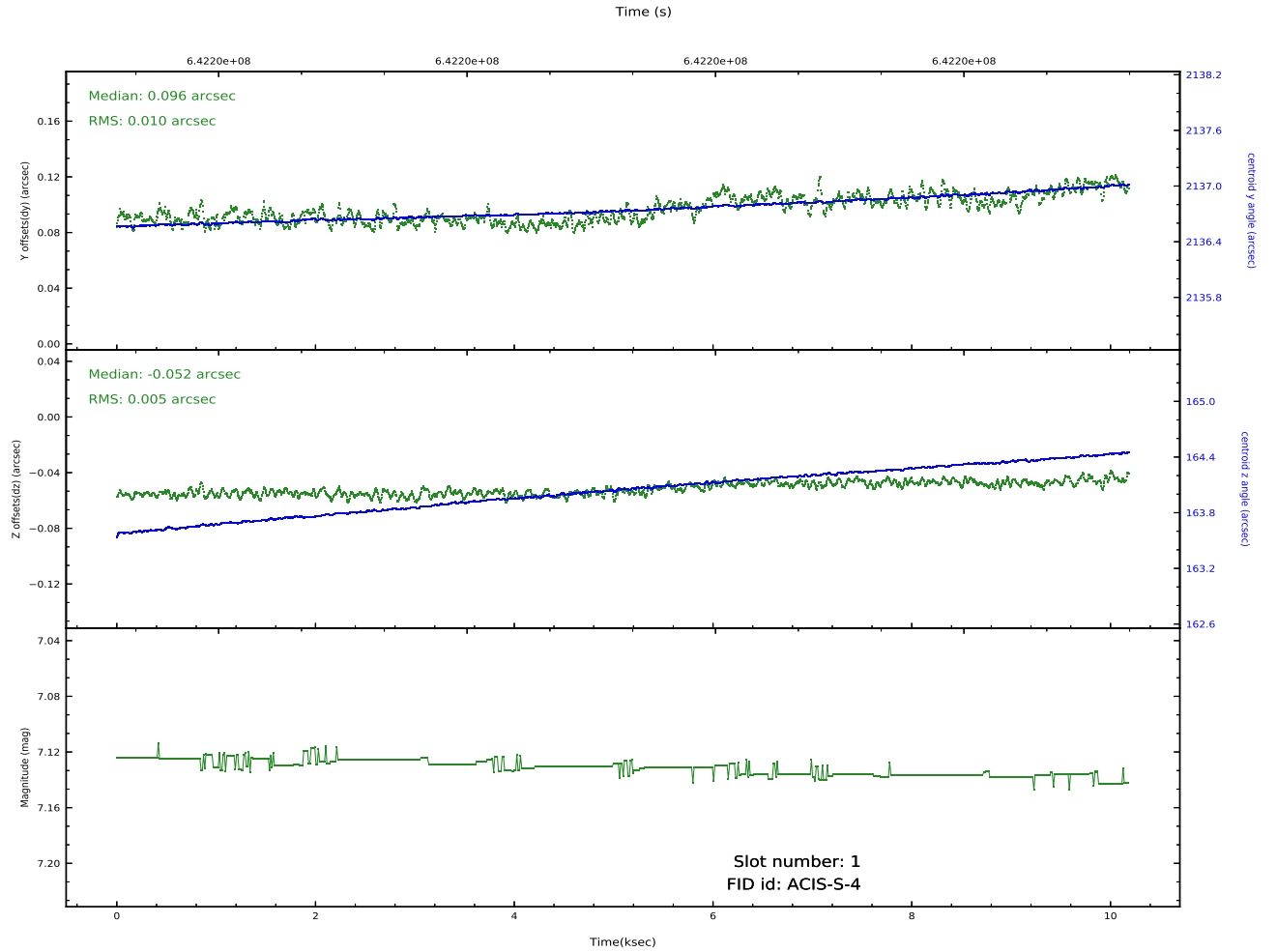
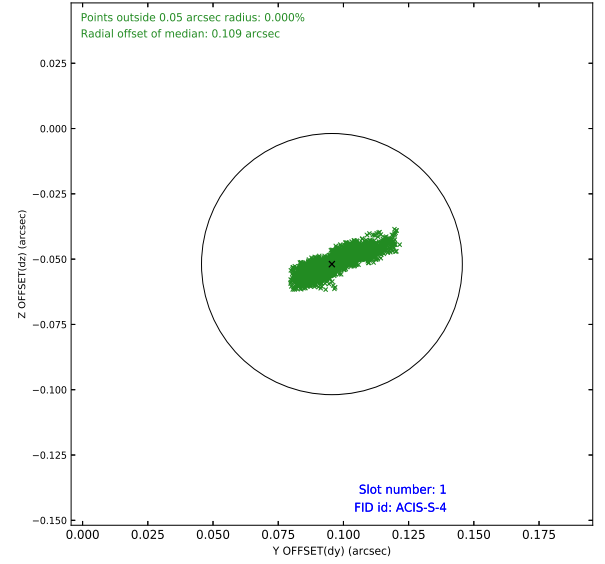
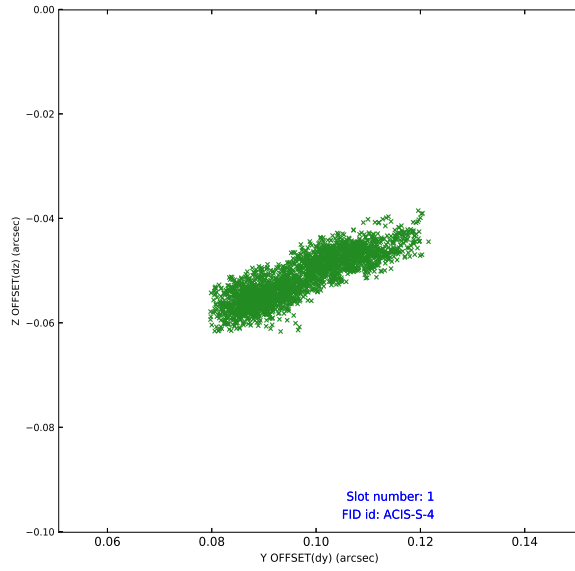


2.5 FID Slots

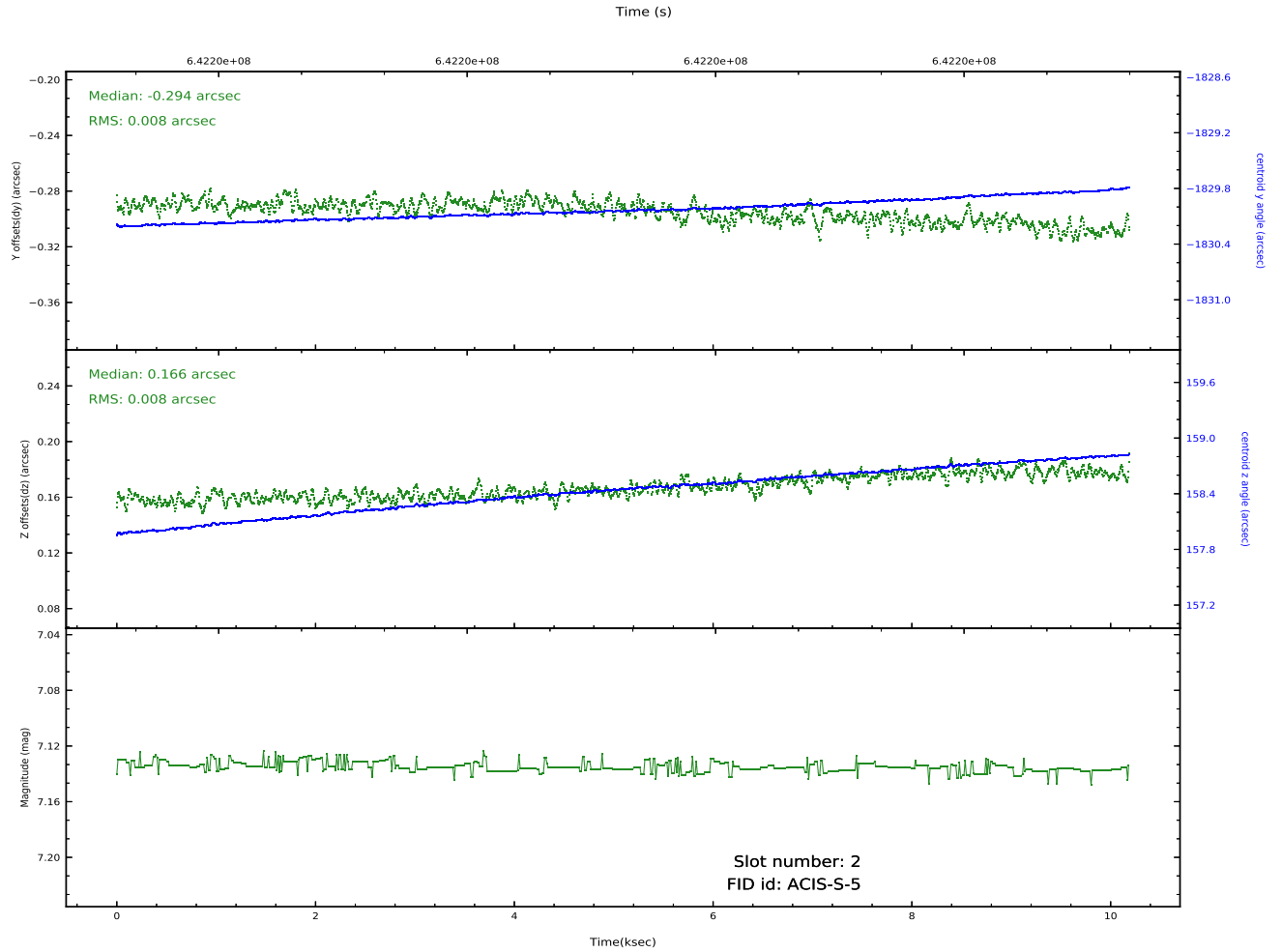
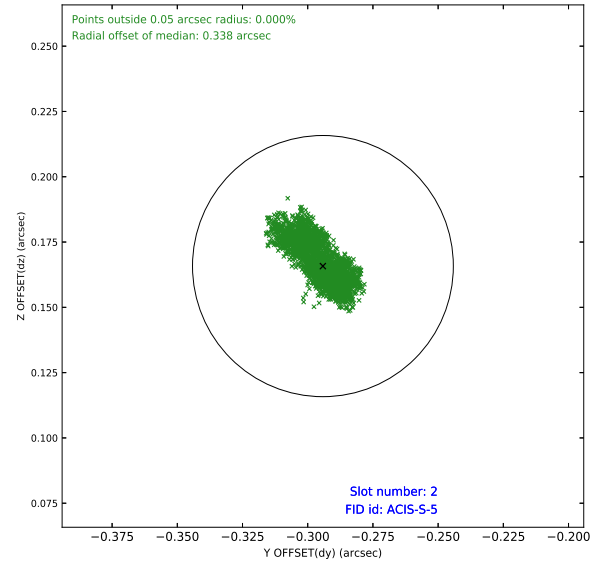
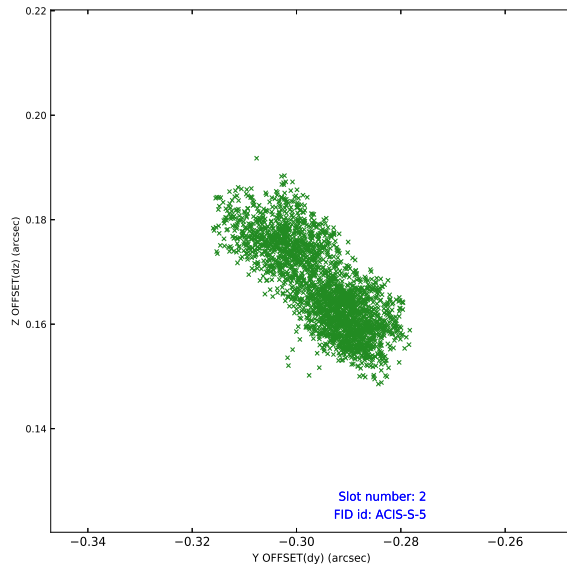
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9703994057178

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 slot from the solution.