

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19608 - L2 Version 2
Chandra X-Ray Center

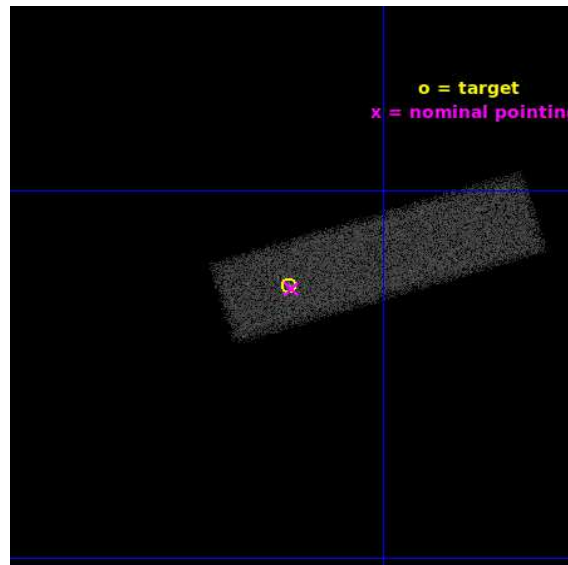
L2 Processing Date : Oct 24 2020

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1 Front

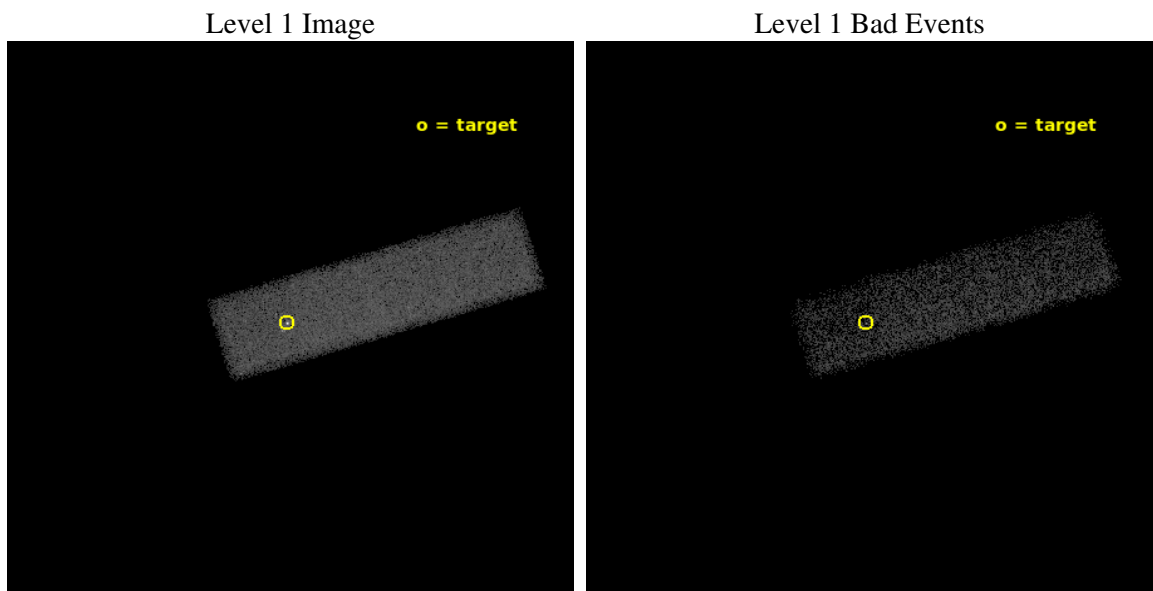
seq_num	502956	Sequence number
obs_id	19608	Observation id
title	PSR J2032+4127: A Be/Gamma-ray Pulsar Binary Heading Toward Periastron	Proposal title
observer	Jules Halpern	Principal investigator
object	PSR J2032+4127	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.054583	Observer's specified target RA [deg]
dec_targ	41.456806	Observer's specified target Dec [deg]
ra_nom	308.0530345971	Nominal RA [deg]
dec_nom	41.455513196699	Nominal Dec [deg]
roll_nom	342.79983213543	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30523.998180628	Sum of GTIs [s]
livetime	29034.526948186	Livetime [s]
ontime7	30523.998180628	Sum of GTIs [s]
l2events	38721	Number of level 2 events



2 OBI

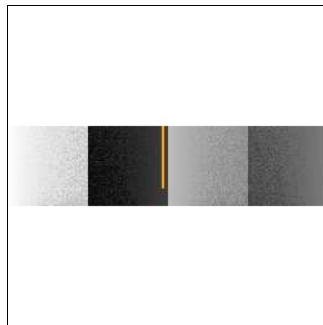
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30464.096000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	30523.998180628	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	30523.998180628	Sum of GTIs [s]
date	2020-10-24T06:31:16	Date and time of file creation	l1events	77441	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

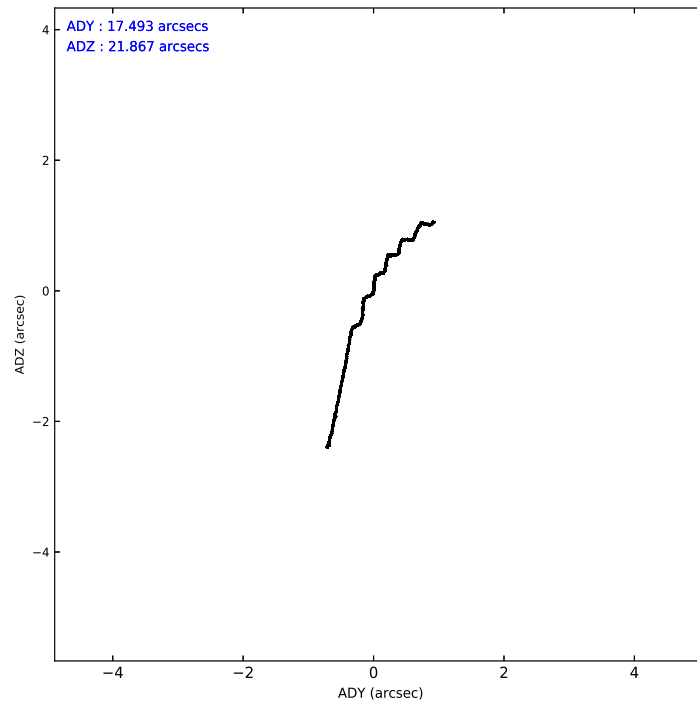
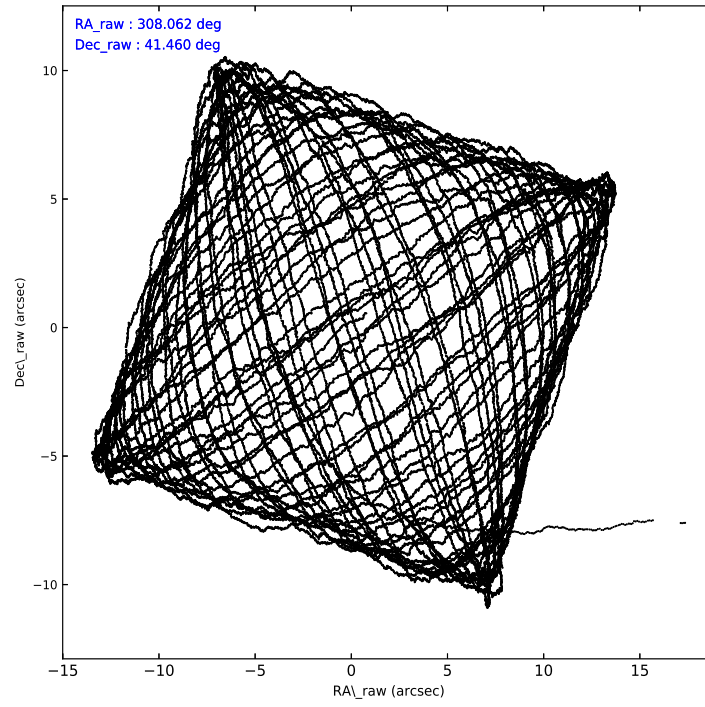
	ccd 7
level 1 events	77441
rejected events	37552
rejected %	48%

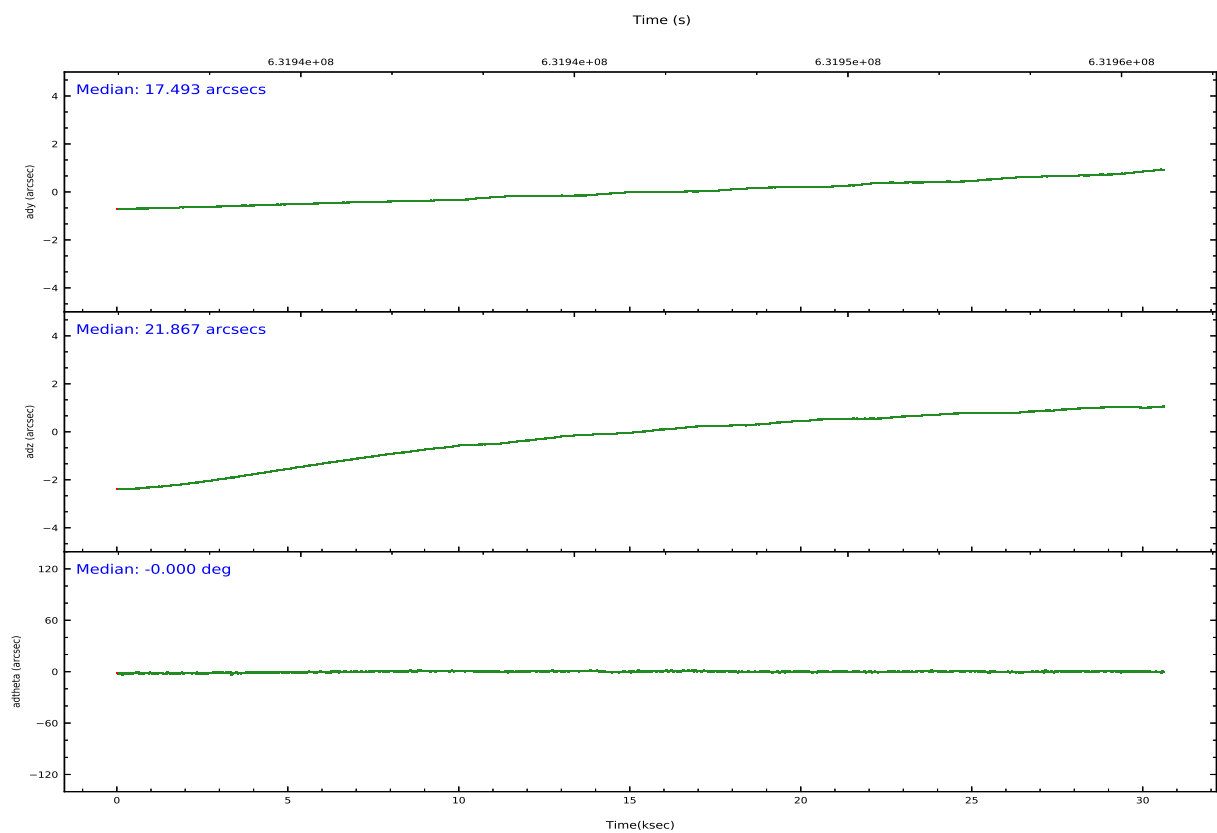
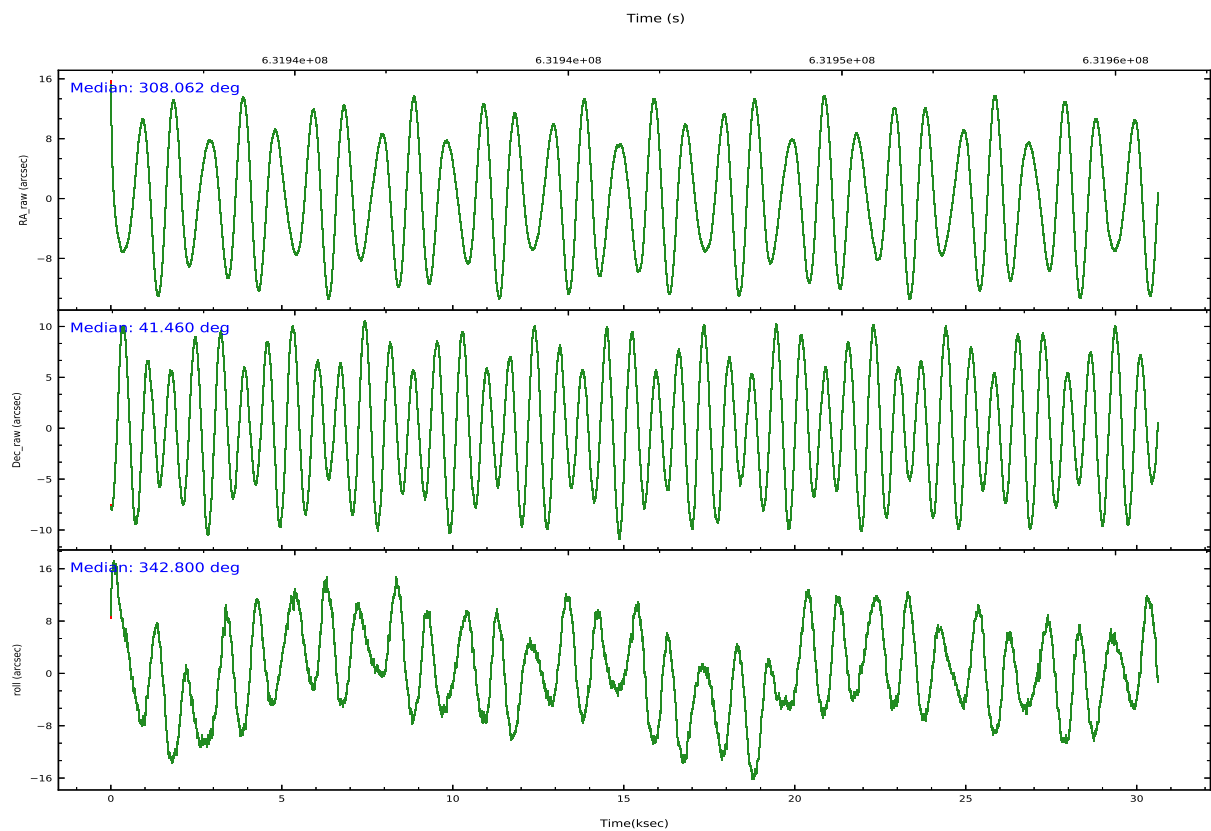
	ccd 7
grade 0 events	4733
	6%
grade 1 events	121
	0%
grade 2 events	8366
	10%
grade 3 events	4550
	5%
grade 4 events	4215
	5%
grade 5 events	7482
	9%
grade 6 events	18025
	23%
grade 7 events	29949
	38%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	308.026389	308.0530345971	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	41.453480	41.455513196699	Subarray start row	385	385
[deg] Pointing Roll	342.671952	342.79983213543	Subarray row count	256	256
[s] Window start time (MET)	630028869.184000	630028869.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	632620869.184000	632620869.184000	[s] Primary exposure time	0.000000	0.8
[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)	631930783.184000	631929524.89777			
Observation start date	2018-01-10T00:18:34	2018-01-09T23:58:44			
[s] Observation end time (MET)	631961247.184000	631962287.4872			
Observation end date	2018-01-10T08:46:18	2018-01-10T09:04:47			
Read mode	TIMED	TIMED			

2.3 Aspect



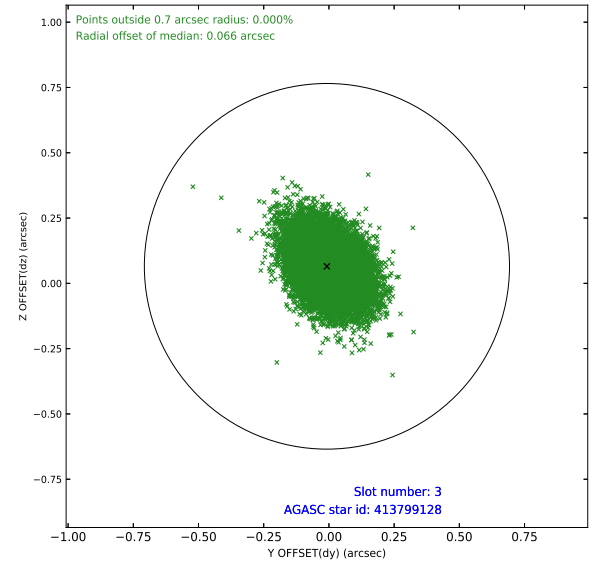
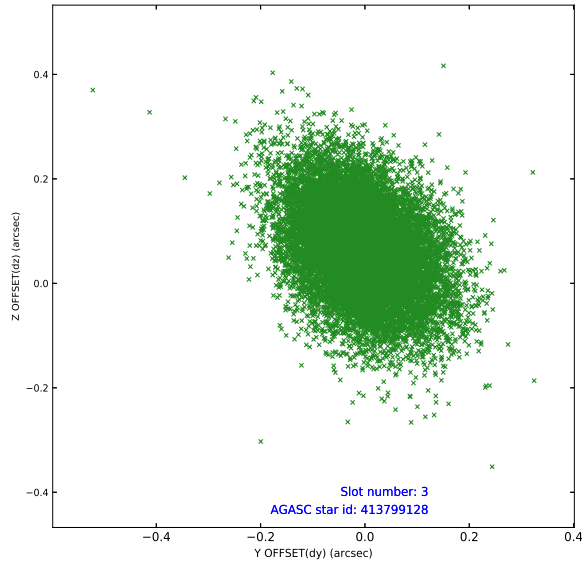


Slot Statistics

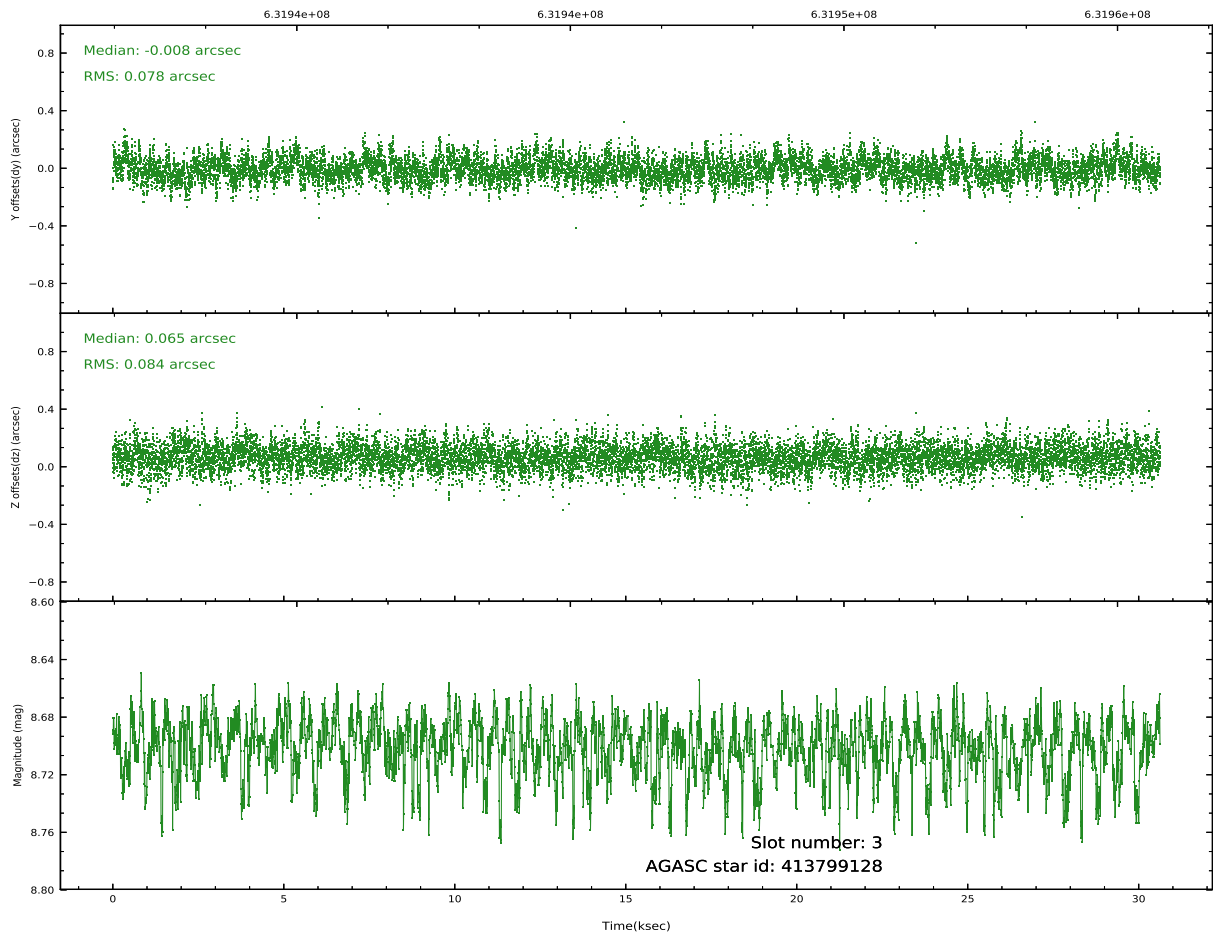
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.20	7471	1.000	0.308	-0.199	0.037	0.052	0.000000	0.000000	925.66	-1739
1	FID		ACIS-S-5	7.22	7469	1.000	-0.258	0.243	0.012	0.022	0.000000	0.000000	-1823.70	159
2	FID		ACIS-S-6	7.38	7470	1.000	-0.070	-0.035	0.038	0.050	0.000000	0.000000	390.99	802
3	GUIDE	used	413799128	8.70	14926	1.000	-0.008	0.065	0.120	0.201	307.948219	41.110579	166.20	-1240
4	GUIDE	used	414326136	7.35	14939	1.000	-0.073	-0.220	0.117	0.194	308.256176	41.473642	570.29	255
5	GUIDE	used	413803744	8.82	14921	1.000	0.191	-0.124	0.150	0.261	308.586342	40.704904	2261.14	-2112
6	GUIDE	used	414322472	8.51	14929	1.000	-0.161	0.203	0.106	0.190	307.661586	42.199898	-1729.52	2277
7	GUIDE	used	414324232	8.30	14932	1.000	0.049	0.077	0.114	0.197	308.637806	41.996627	977.61	2359

2.4 Star Slots

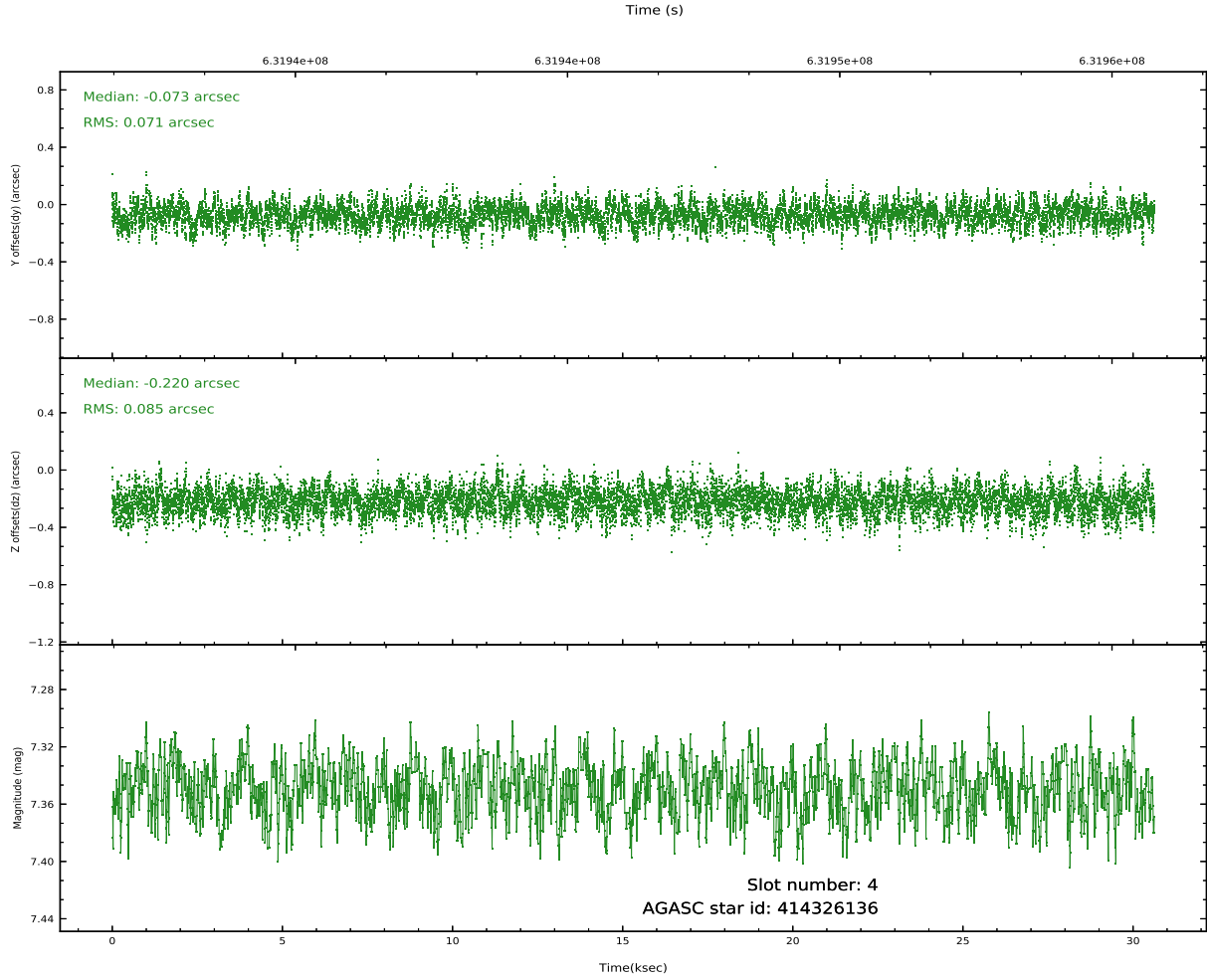
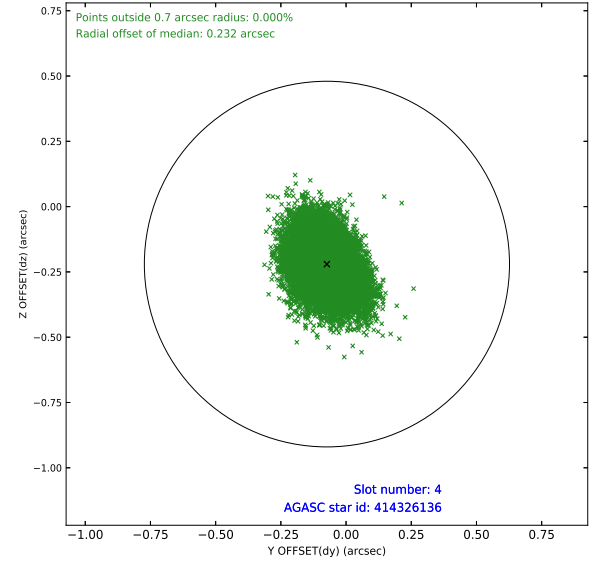
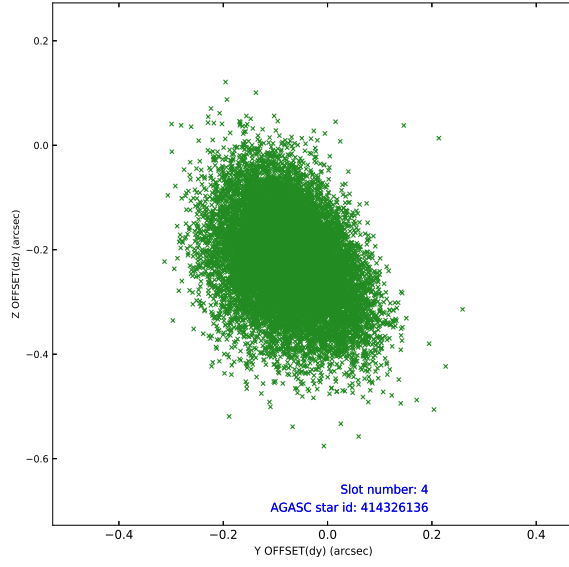
2.4.1 Slot 3



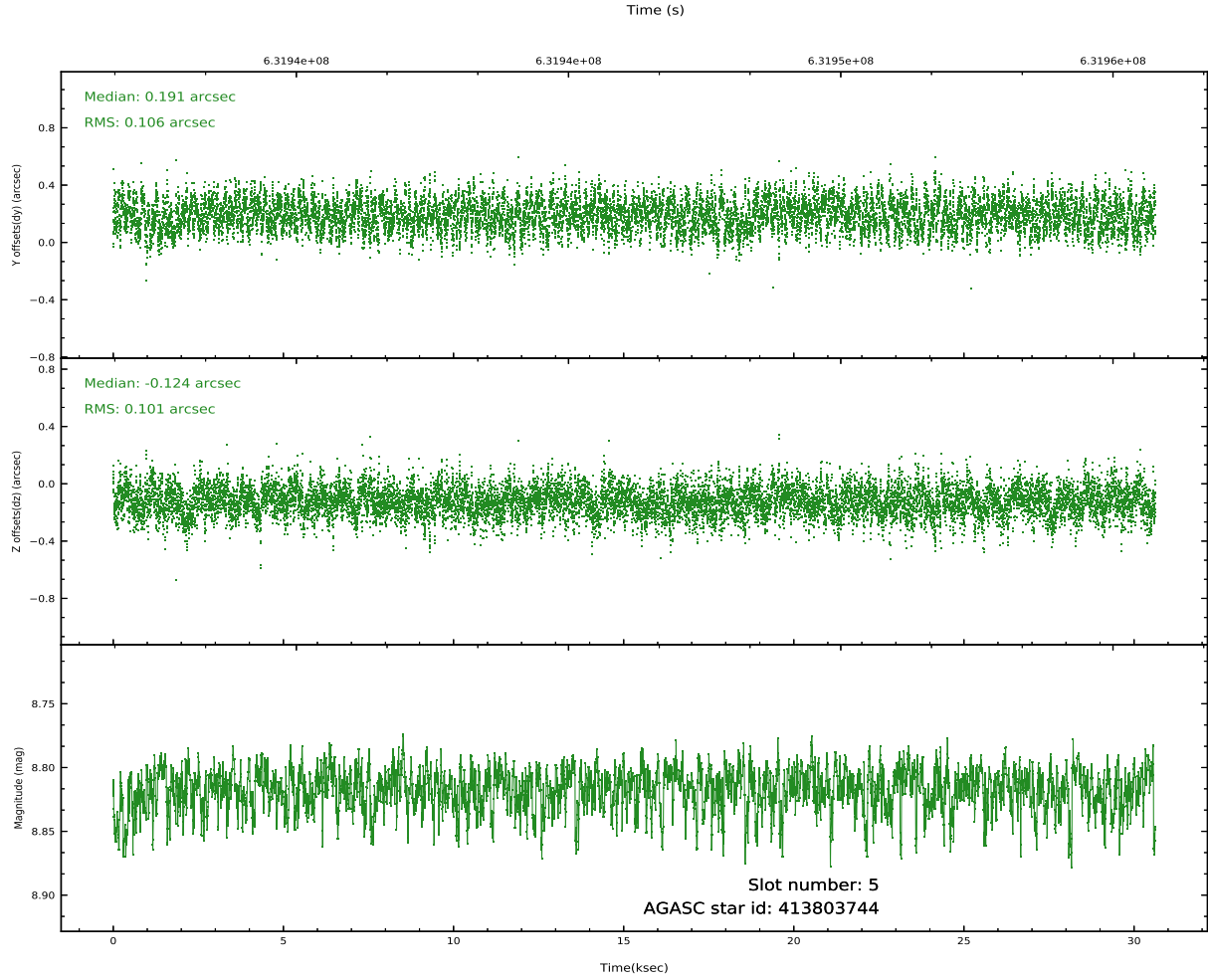
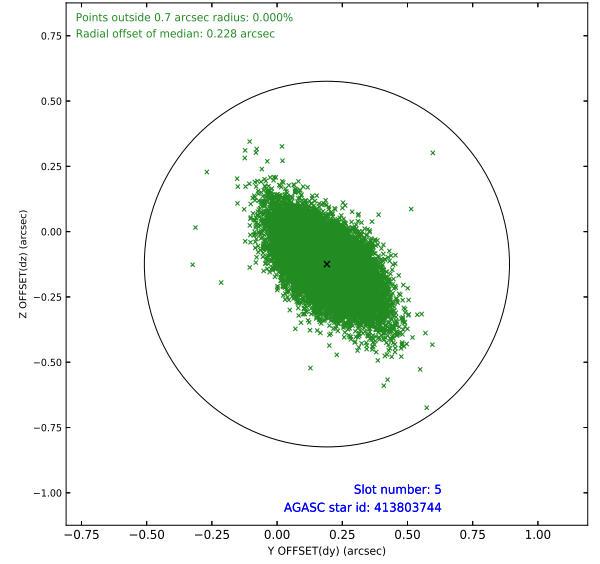
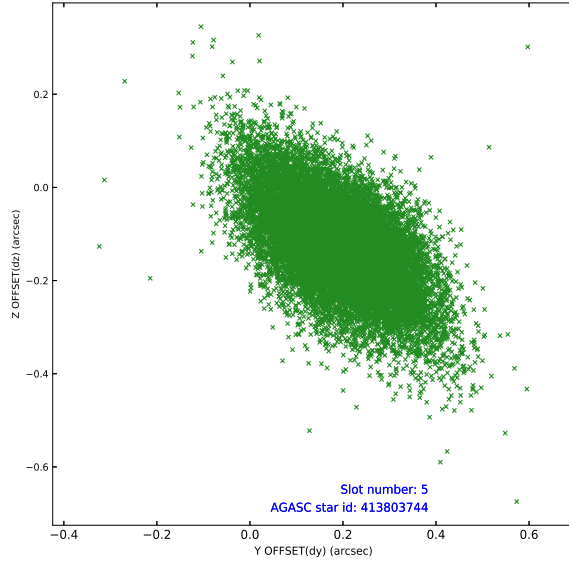
Time (s)



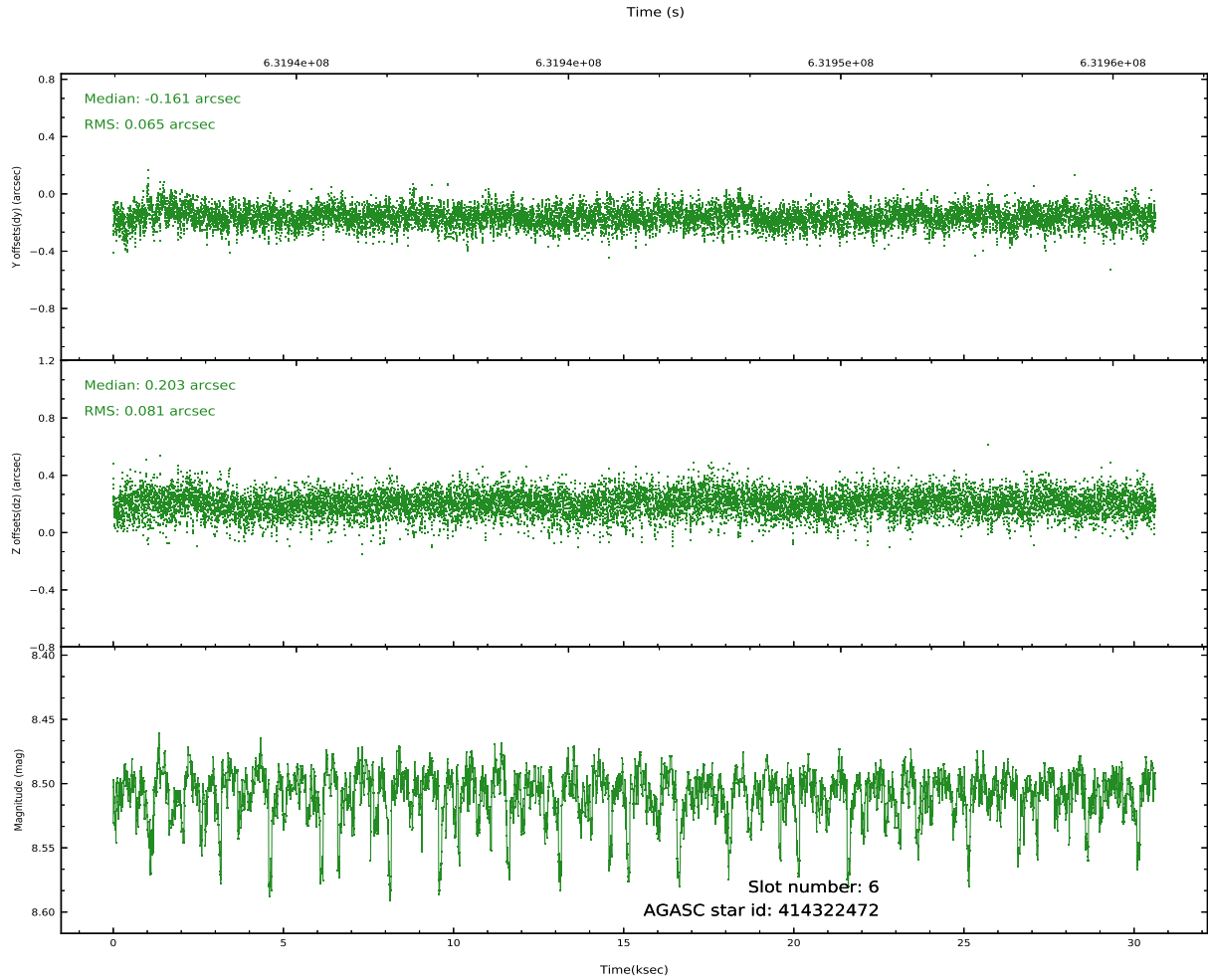
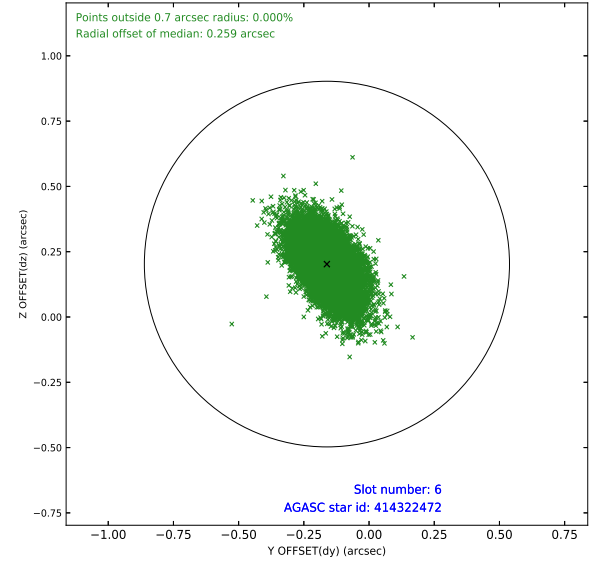
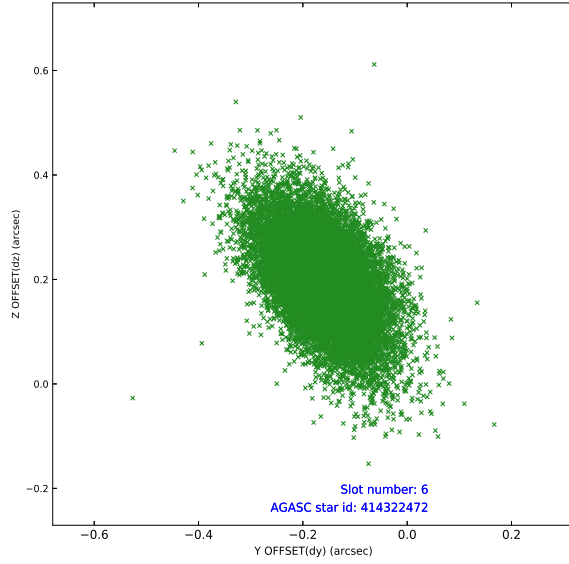
2.4.2 Slot 4



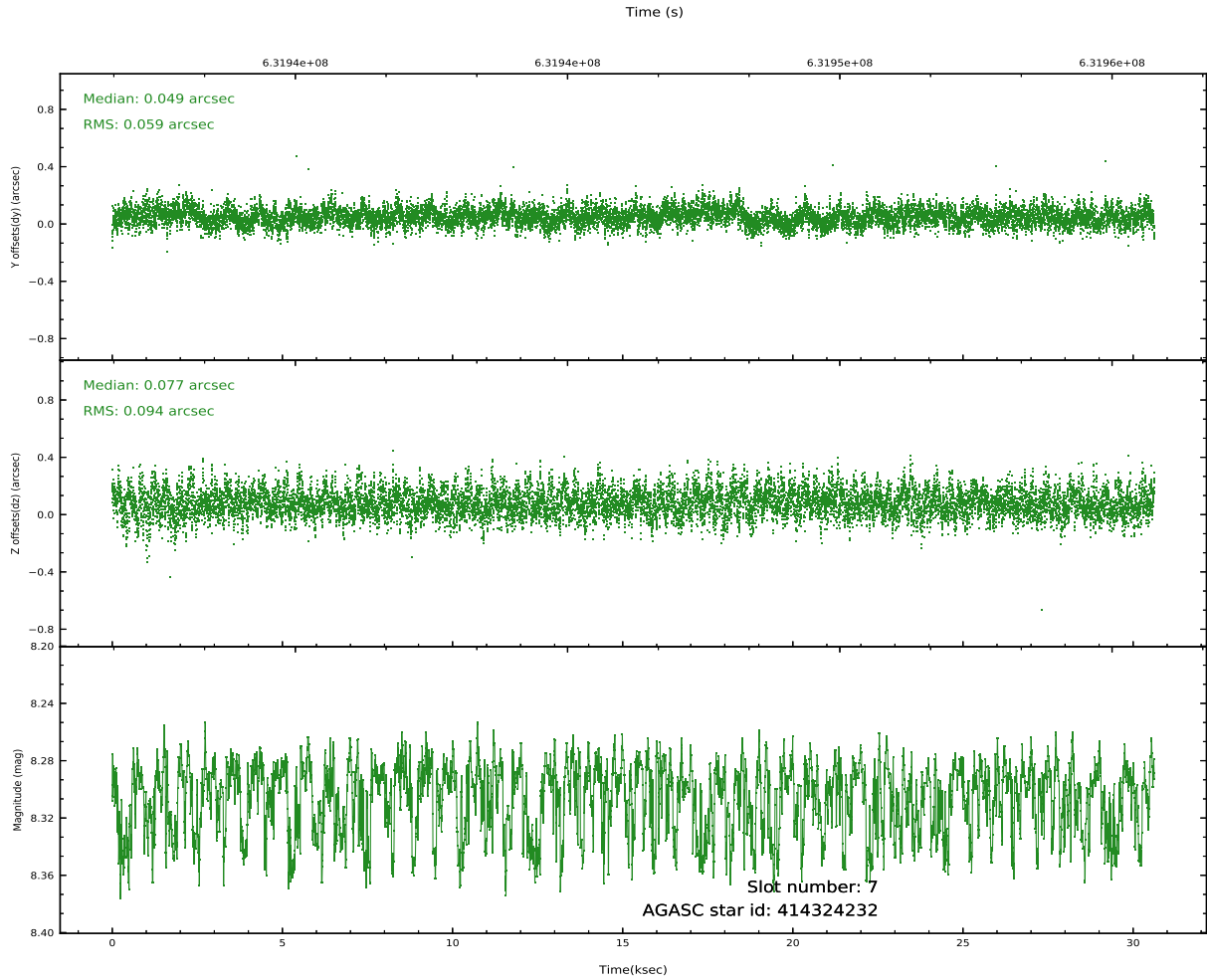
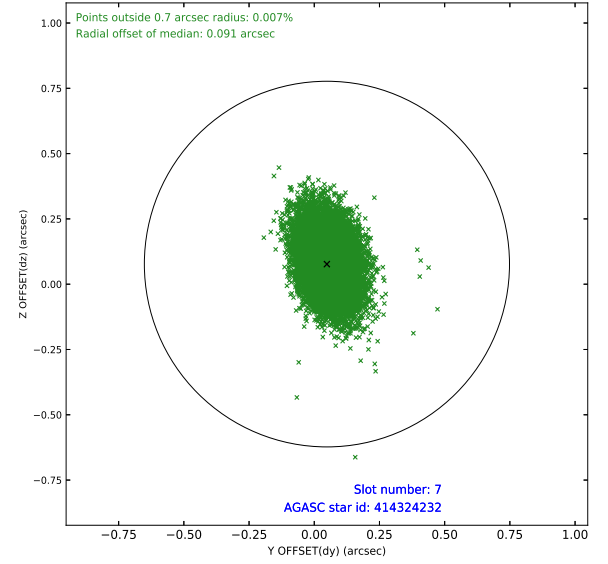
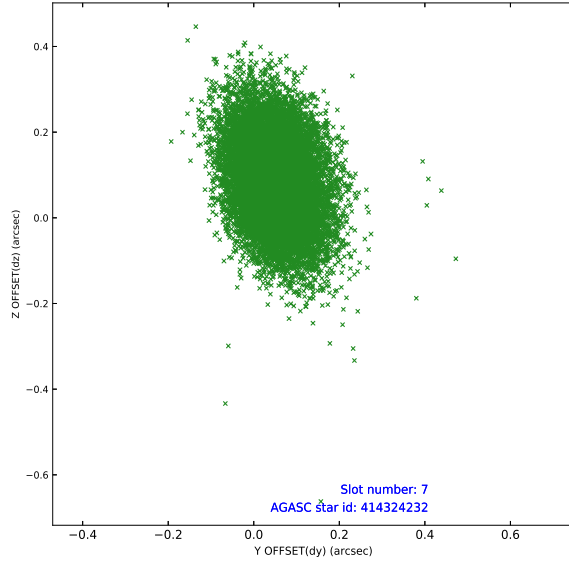
2.4.3 Slot 5



2.4.4 Slot 6

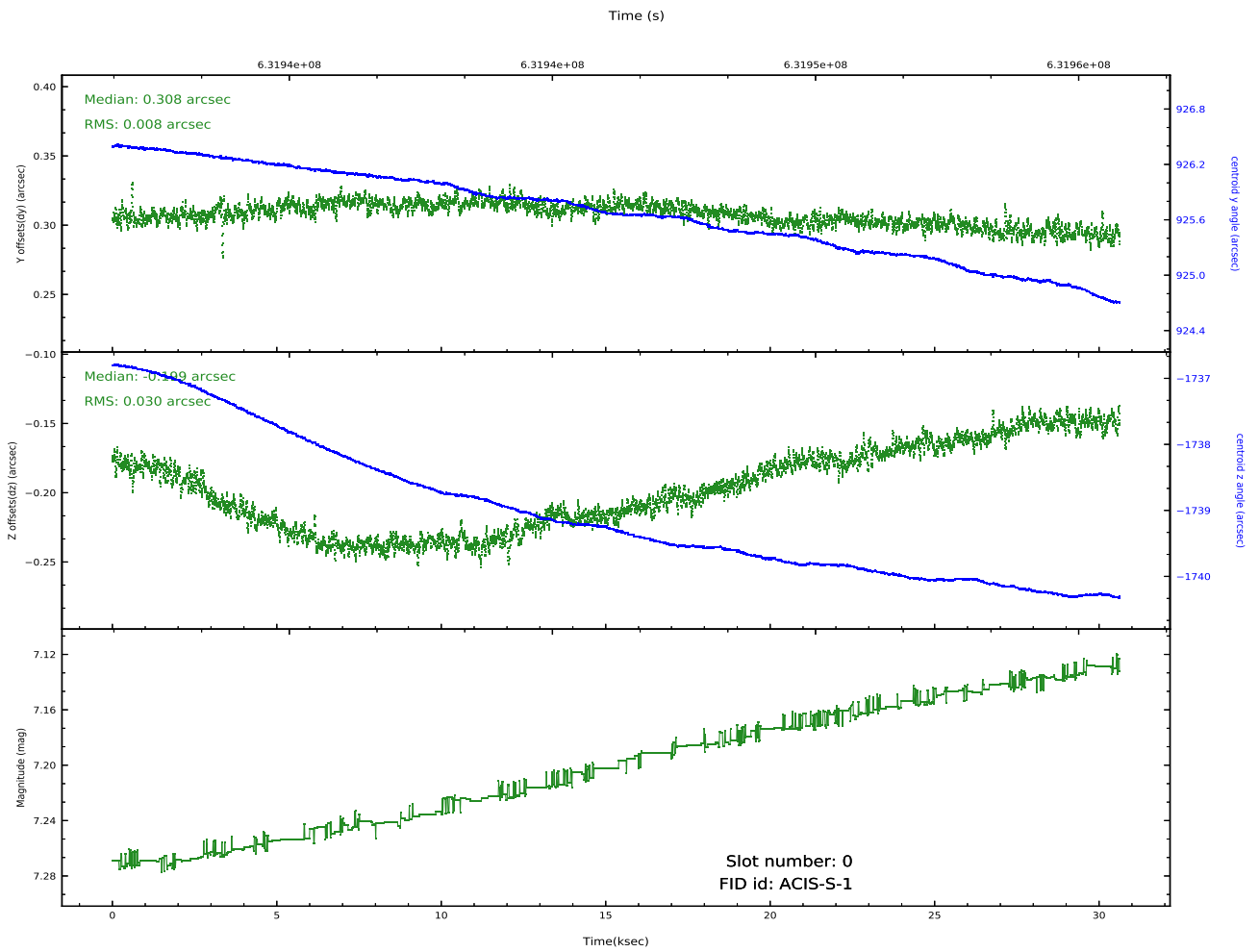
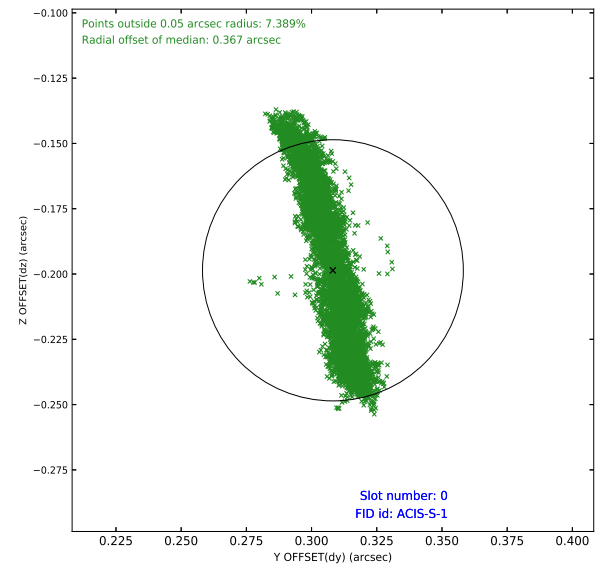
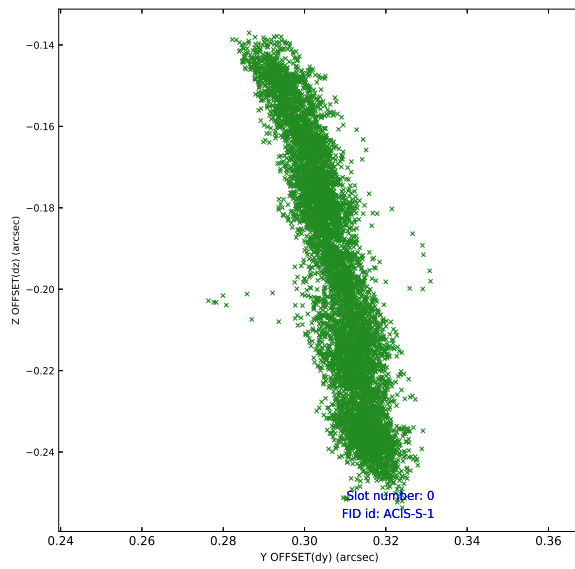


2.4.5 Slot 7

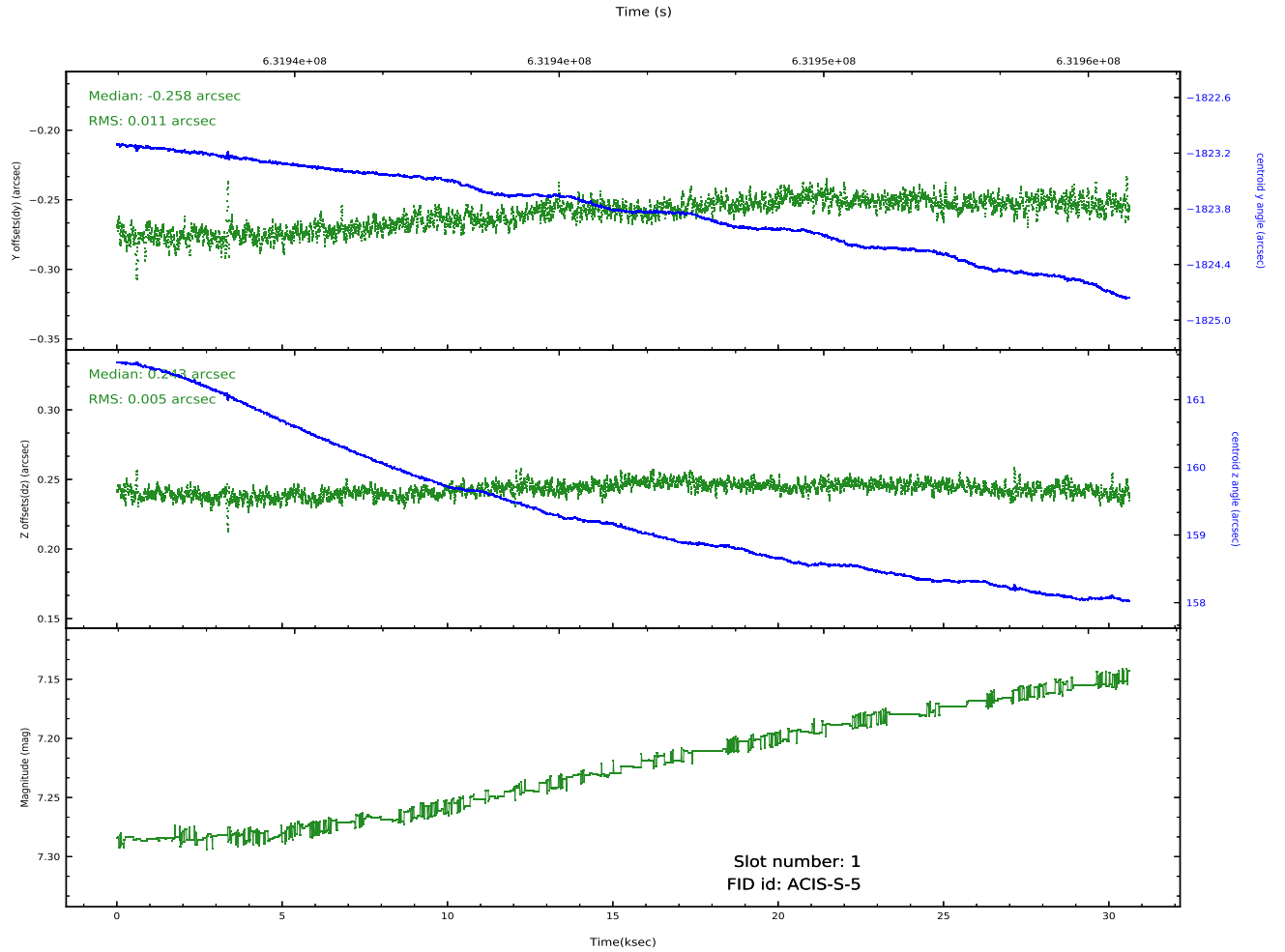
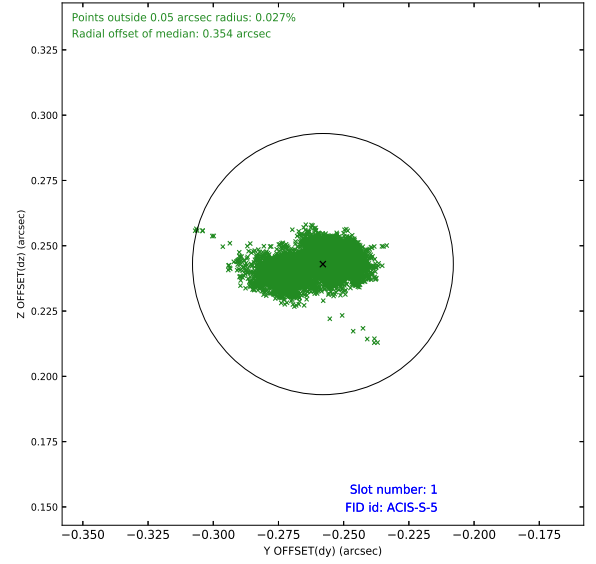
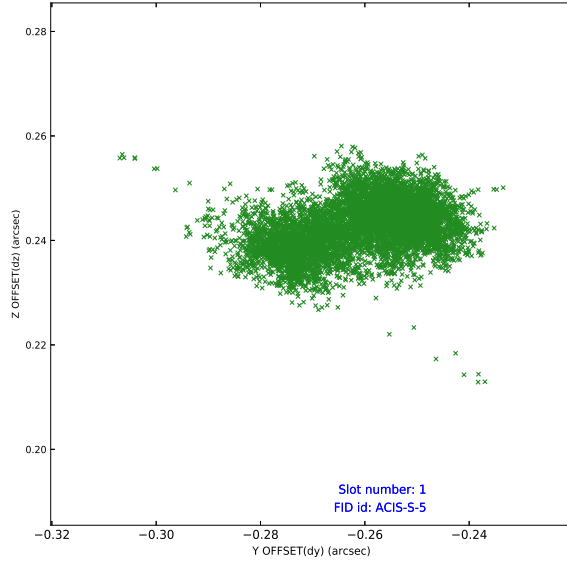


2.5 FID Slots

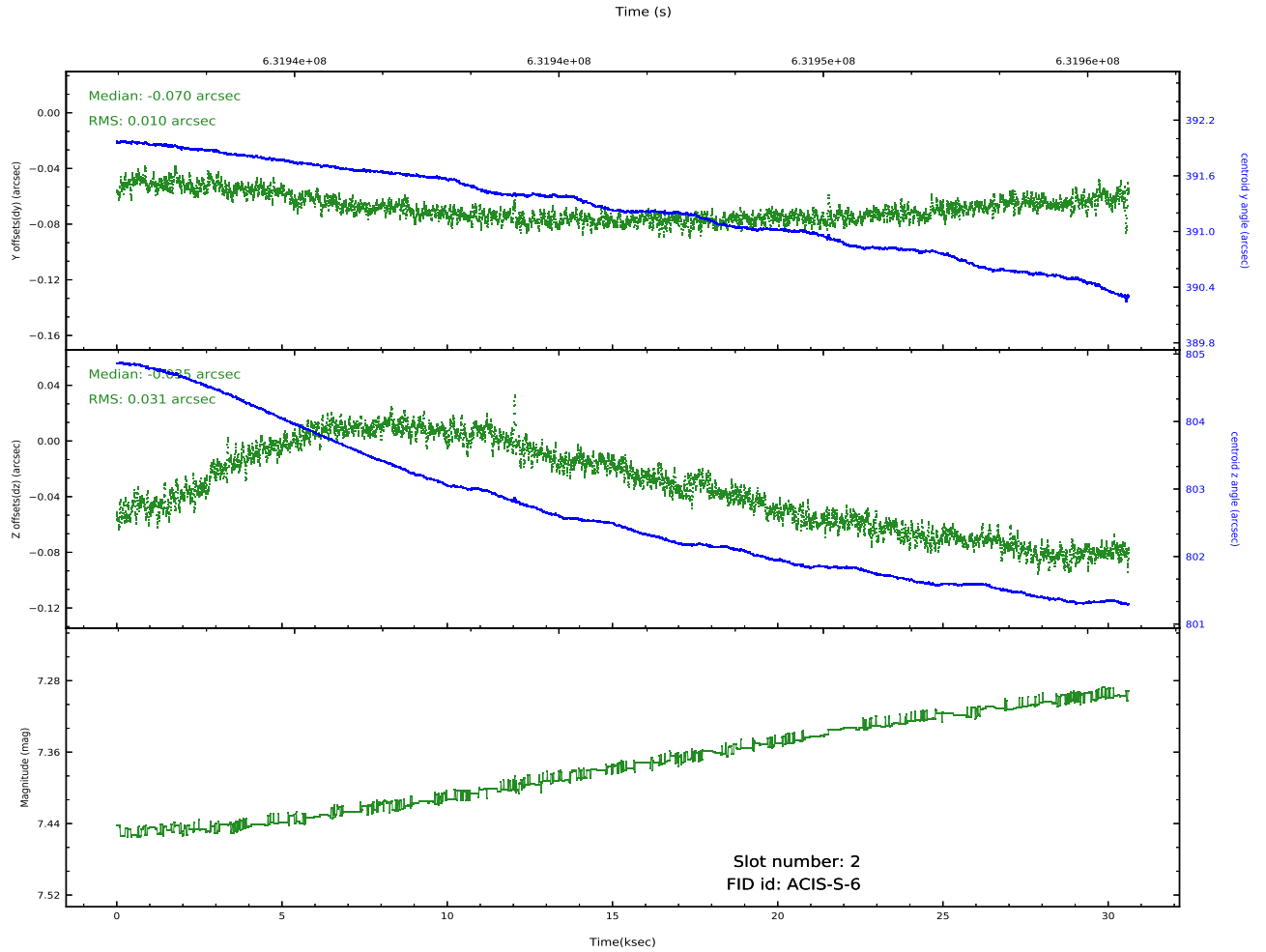
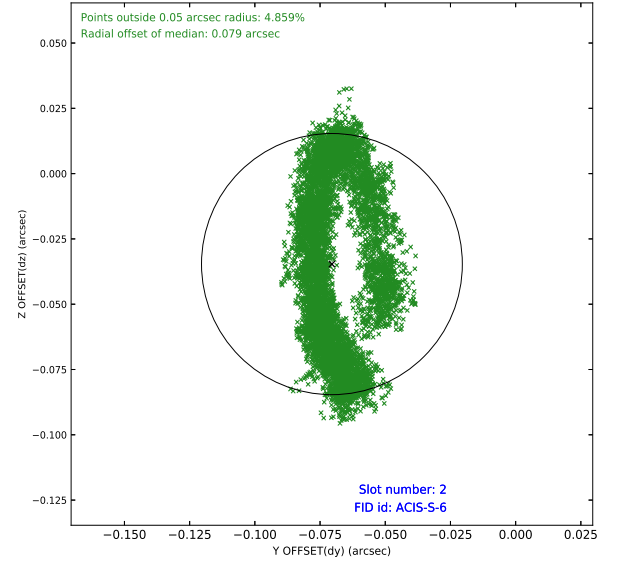
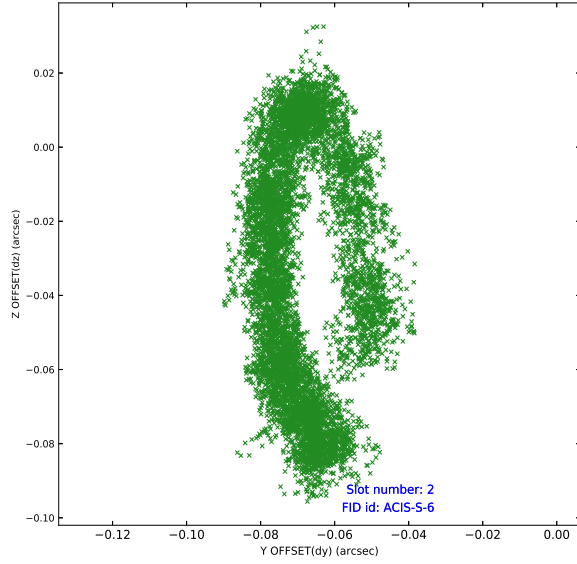
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.523998180628

A.2 Comments

Window constraint was met.