

V&V Reference Report

L2 ASCDS Version : 10.9

Observation 23316 - L2 Version 1
Chandra X-Ray Center

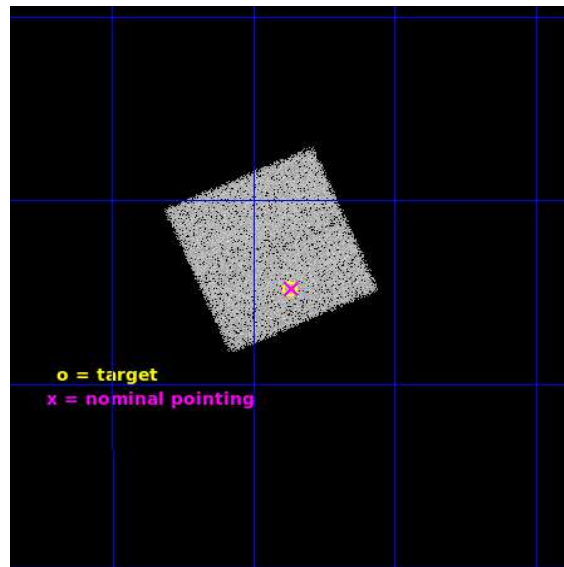
L2 Processing Date : Jul 23 2020

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1 Front

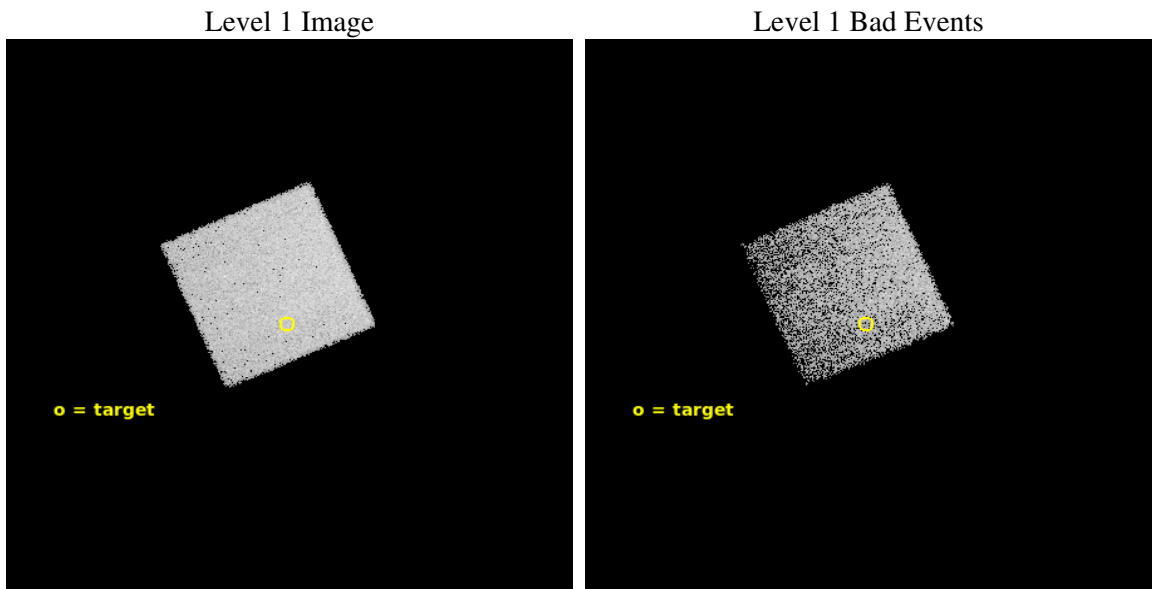
seq_num	503207	Sequence number
obs_id	23316	Observation id
title	X-ray observations of a candidate Pulsar Wind Nebula	Proposal titl
observer	RAFFAELLA MARGUTTI	Principal investigator
object	SN2012au	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.717417	Observer's specified target RA [deg]
dec_targ	-10.247281	Observer's specified target Dec [deg]
ra_nom	193.71600655315	Nominal RA [deg]
dec_nom	-10.24672874043	Nominal Dec [deg]
roll_nom	246.15746636801	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9912.0	Sum of GTIs [s]
livetime	9778.233762134	Livetime [s]
ontime7	9912.0	Sum of GTIs [s]
l2events	41215	Number of level 2 events



2 OBI

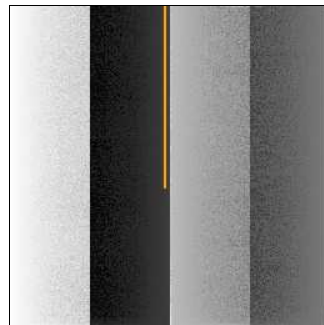
2.1 OBI

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	Processing system revision	ontime	9912.0	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	9912.0	Sum of GTIs [s]
date	2020-07-23T05:37:38	Date and time of file creation	l1events	97517	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

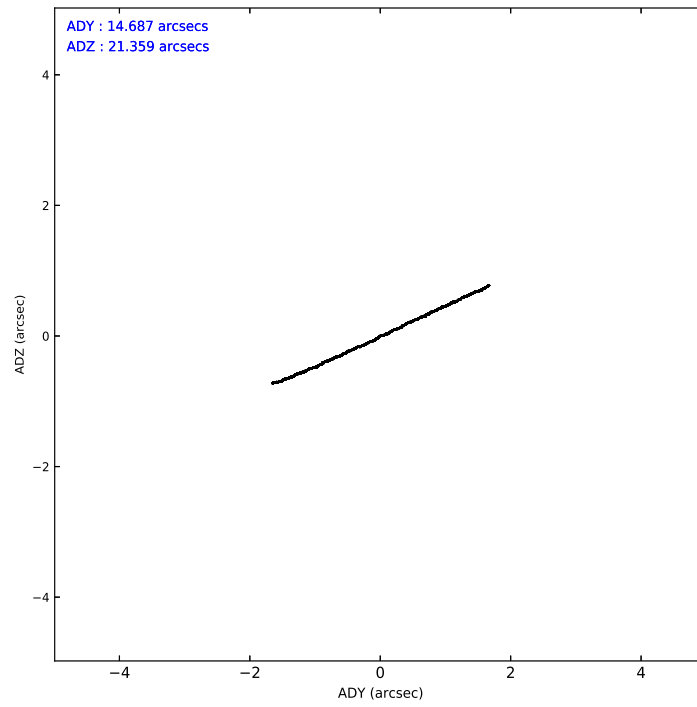
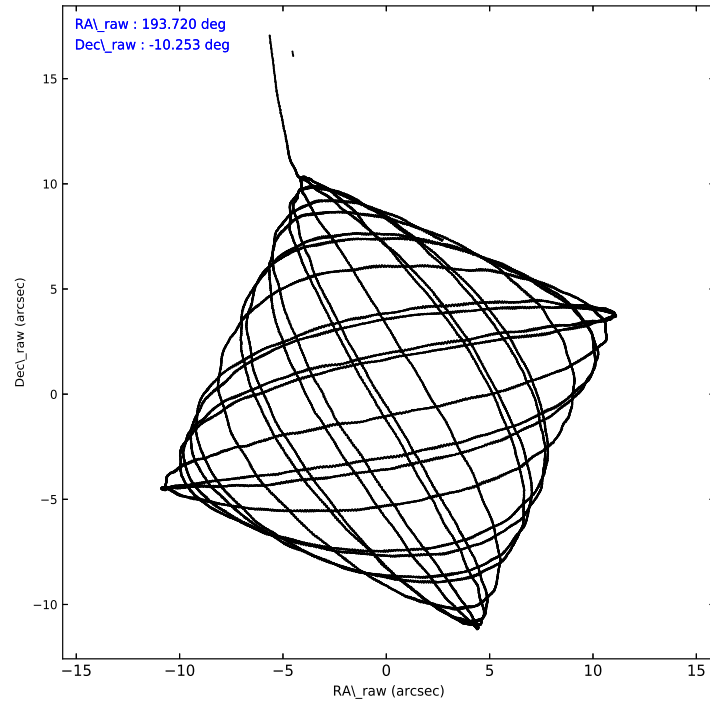
	ccd 7
level 1 events	97517
rejected events	55017
rejected %	56%

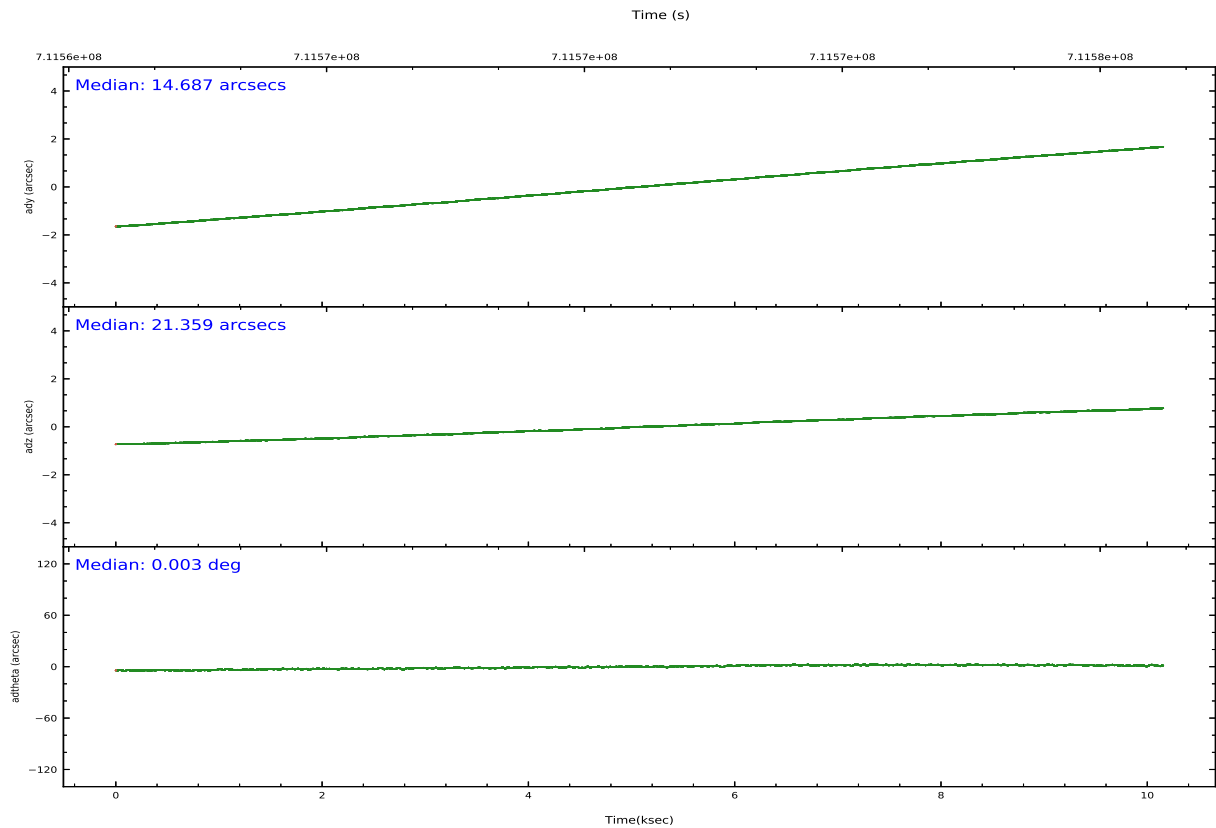
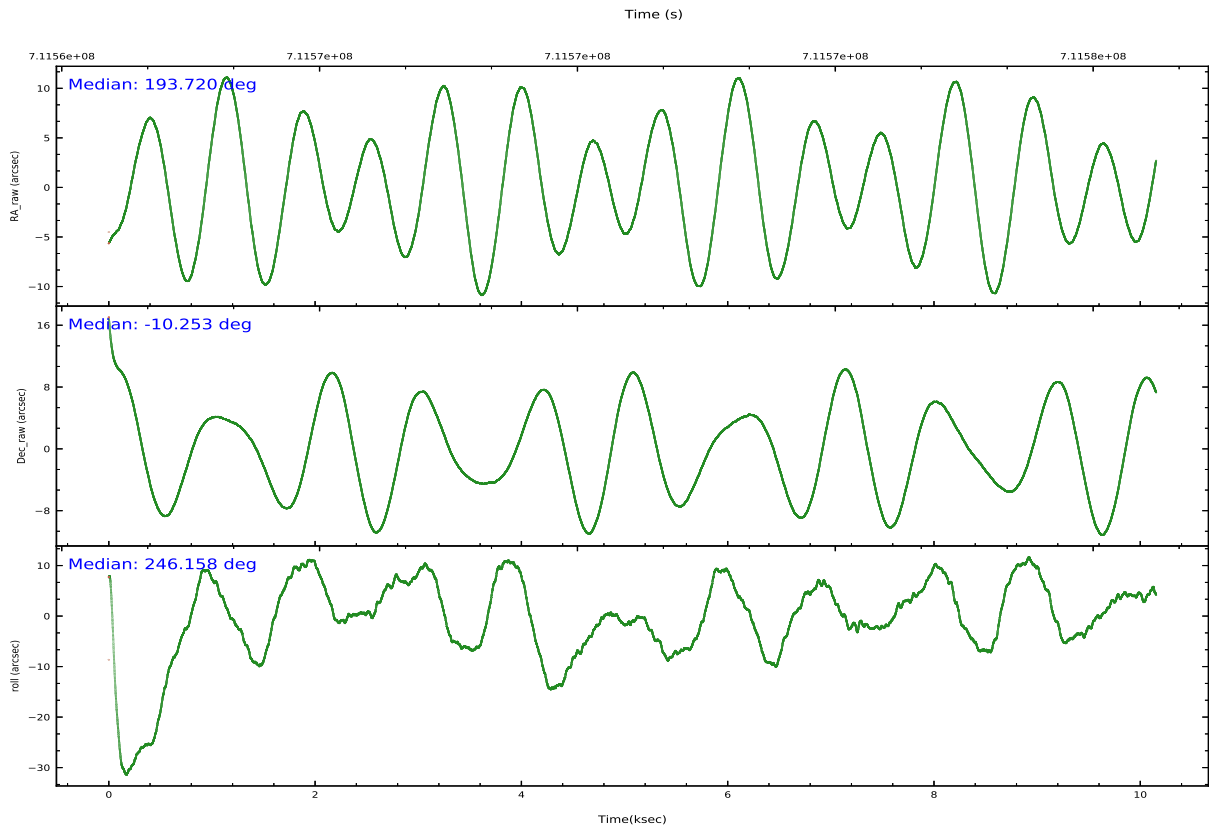
	ccd 7
grade 0 events	3559
	3%
grade 1 events	153
	0%
grade 2 events	9349
	9%
grade 3 events	3318
	3%
grade 4 events	3211
	3%
grade 5 events	9520
	9%
grade 6 events	23076
	23%
grade 7 events	45331
	46%

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	193.716750	193.71600655315	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.226060	-10.24672874043	Alternating exposures requested	N	N
[deg] Pointing Roll	245.999888	246.15746636801	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	711565611.184000	711564457.33053			
Observation start date	2020-07-19T17:05:42	2020-07-19T16:47:37			
[s] Observation end time (MET)	711575611.184000	711576528.24377			
Observation end date	2020-07-19T19:52:22	2020-07-19T20:08:48			
Read mode	TIMED	TIMED			

2.3 Aspect





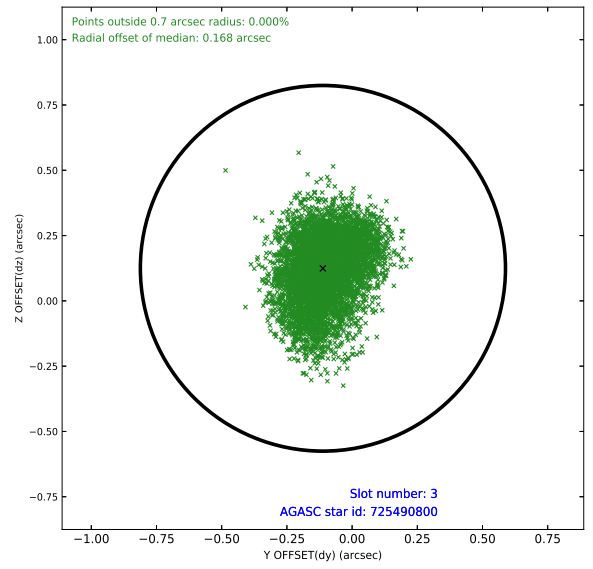
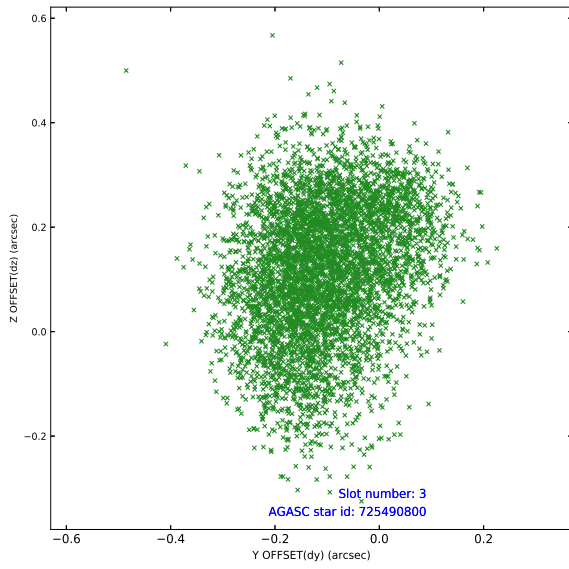
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.08	2477	1.000	0.364	-0.229	0.014	0.021	0.000000	0.000000	928.49	-1738
1	FID		ACIS-S-5	7.10	2476	1.000	-0.311	0.286	0.031	0.044	0.000000	0.000000	-1820.60	159
2	FID		ACIS-S-6	7.25	2477	1.000	-0.073	-0.042	0.032	0.061	0.000000	0.000000	393.40	802
3	GUIDE	used	725490800	9.16	4942	1.000	-0.112	0.125	0.175	0.274	193.423936	-9.618178	-1575.75	-1838
4	GUIDE	used	725877536	9.17	4946	1.000	0.377	0.028	0.194	0.309	193.233989	-10.560716	1797.71	-1070
5	GUIDE	used	725878176	8.69	4949	1.000	-0.255	-0.098	0.147	0.246	193.713230	-10.434131	690.54	293
6	GUIDE	used	725878456	8.80	4949	1.000	-0.101	-0.044	0.164	0.269	193.306402	-10.183063	451.88	-1390
7	GUIDE	used	725879064	8.52	4952	1.000	0.077	-0.006	0.107	0.178	193.520036	-10.106145	-109.57	-812

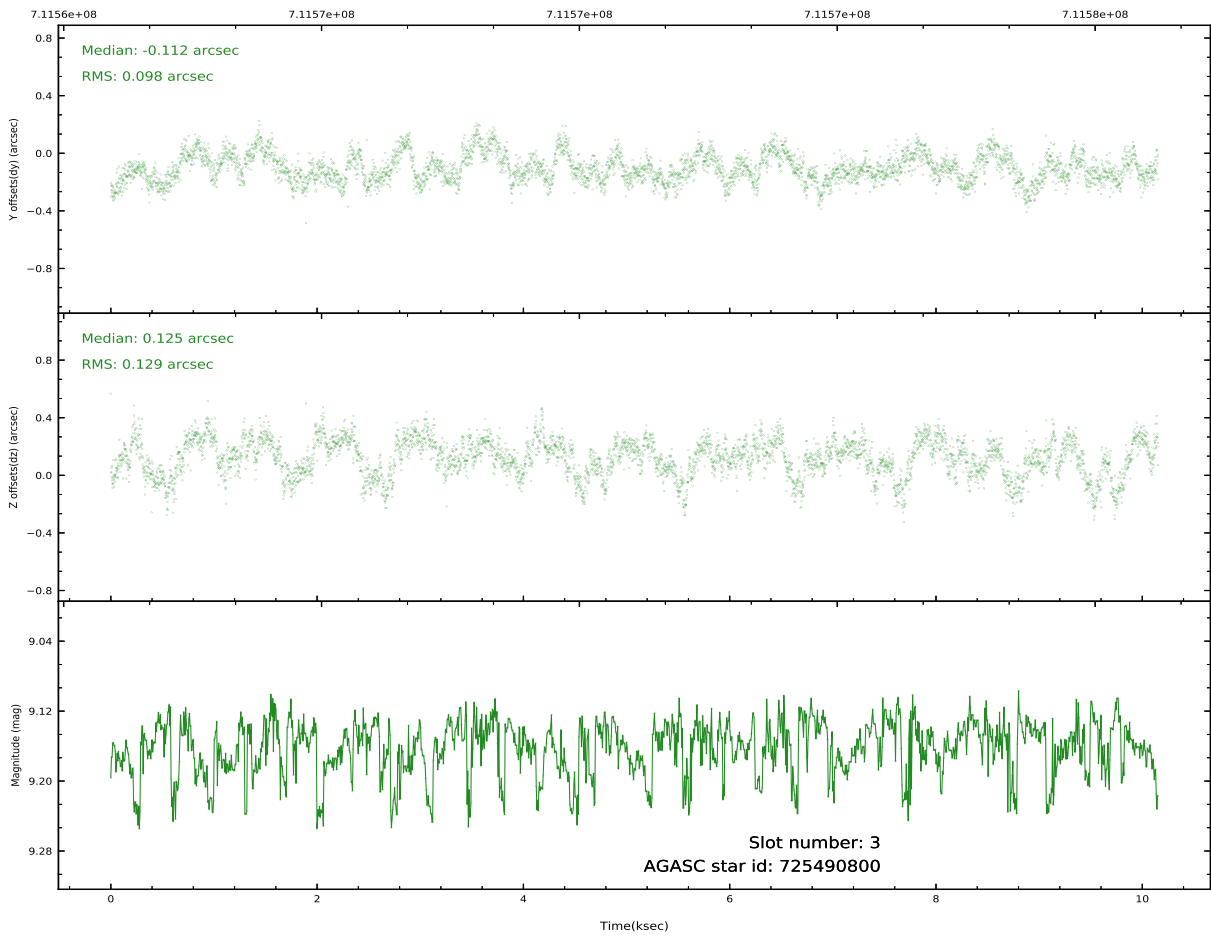
∞

2.4 Star Slots

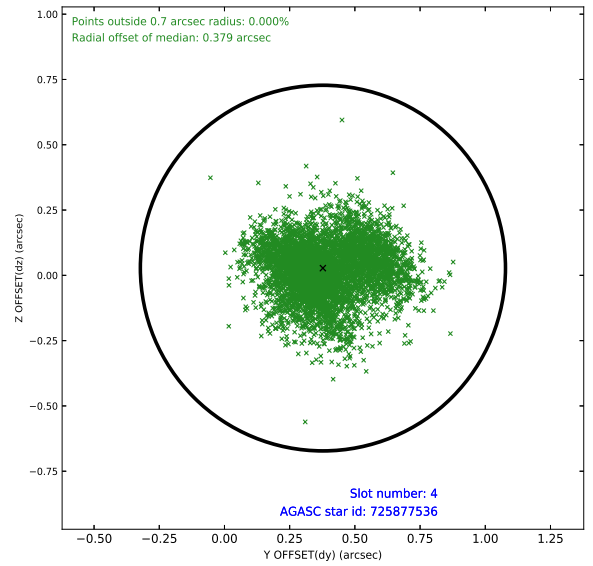
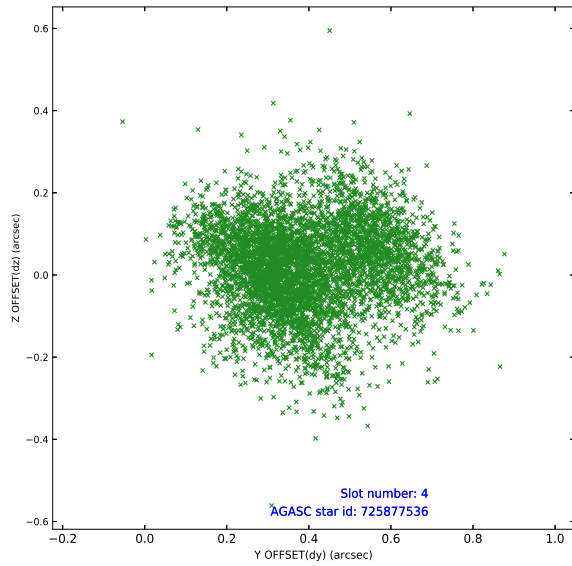
2.4.1 Slot 3



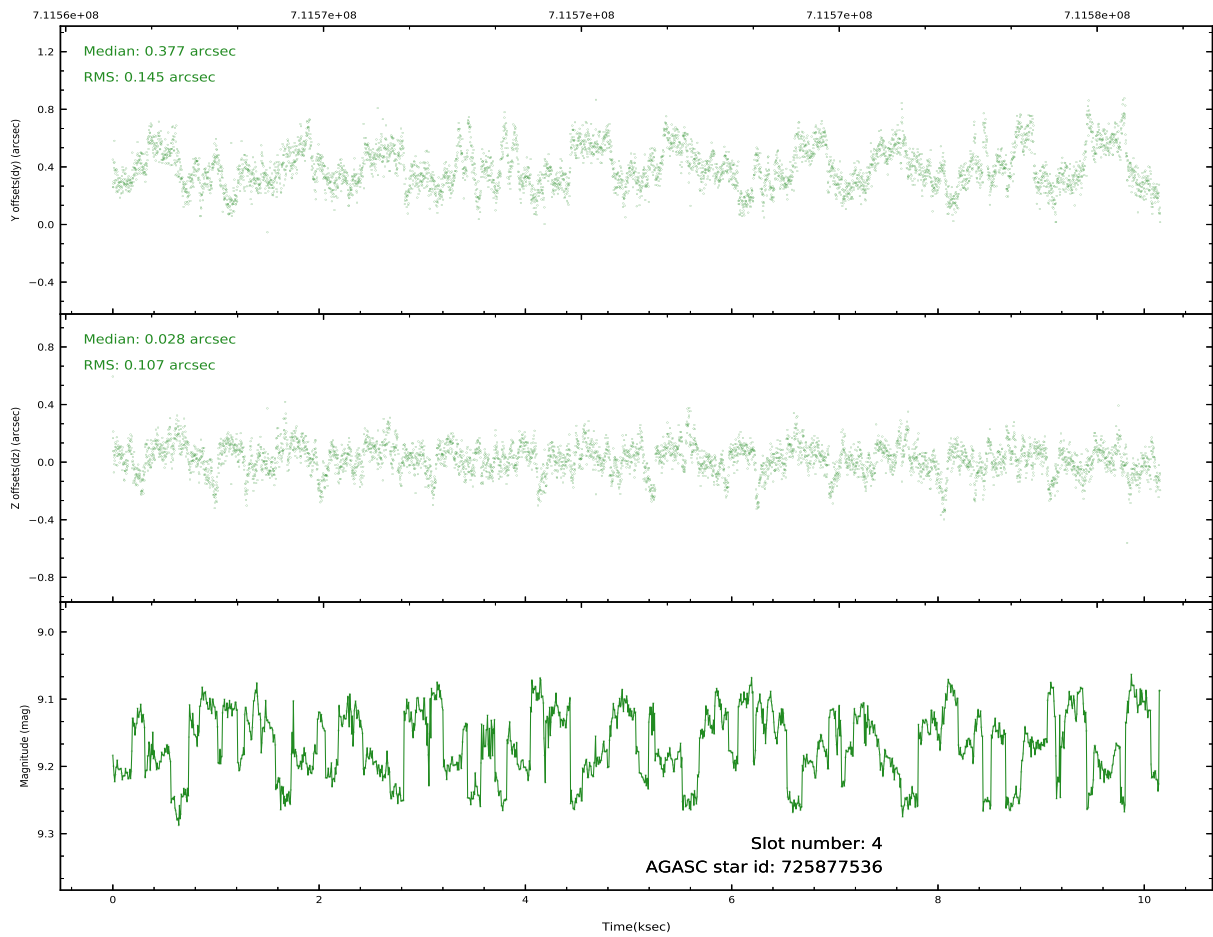
Time (s)



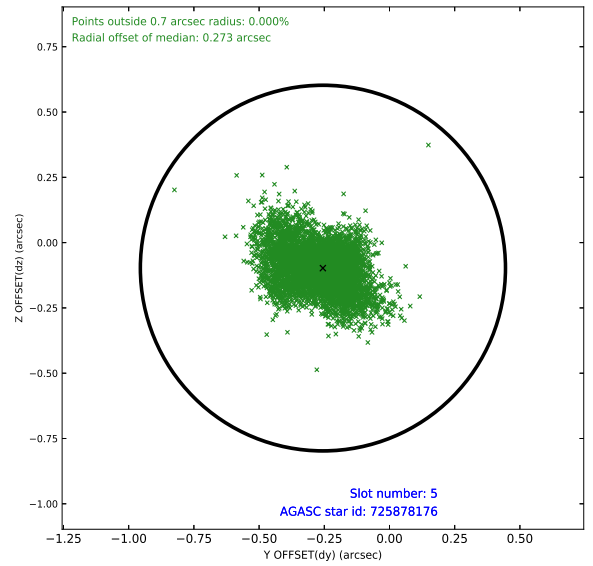
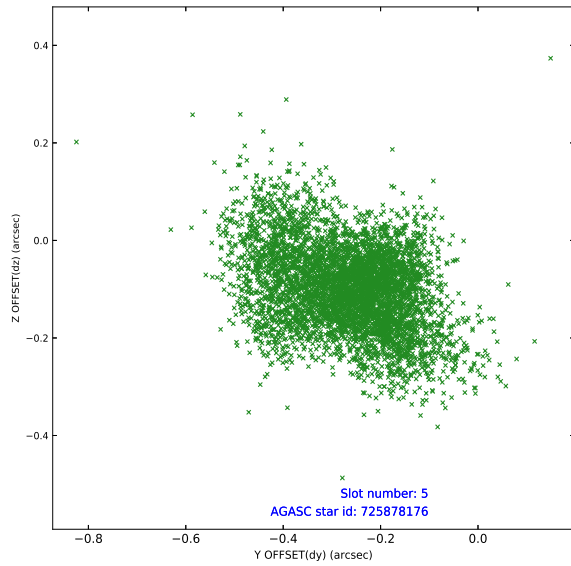
2.4.2 Slot 4



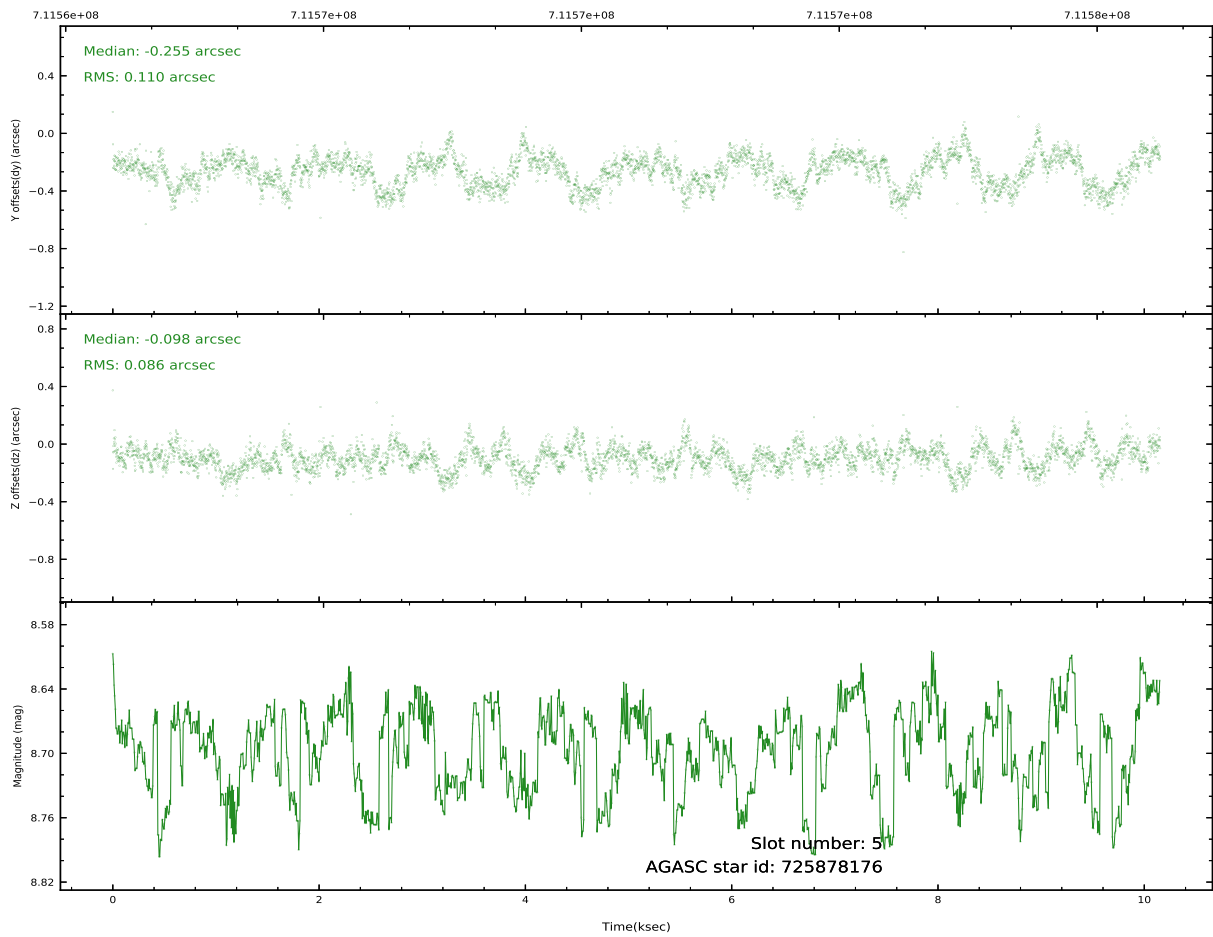
Time (s)



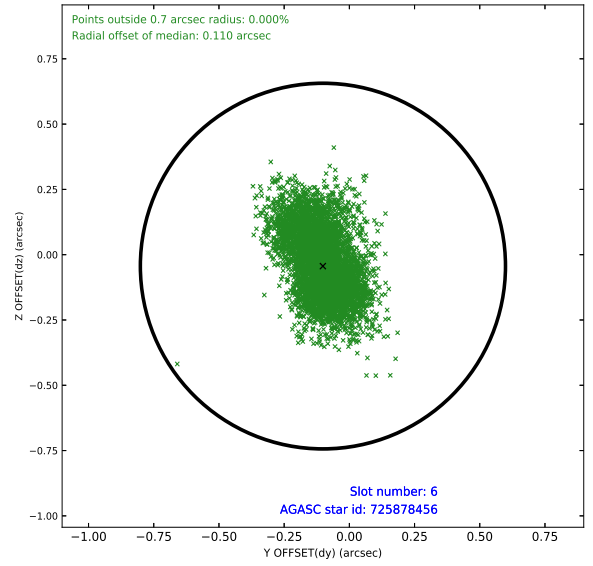
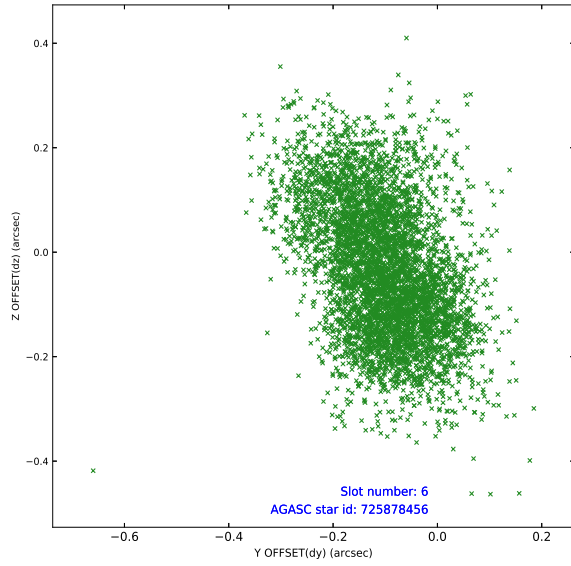
2.4.3 Slot 5



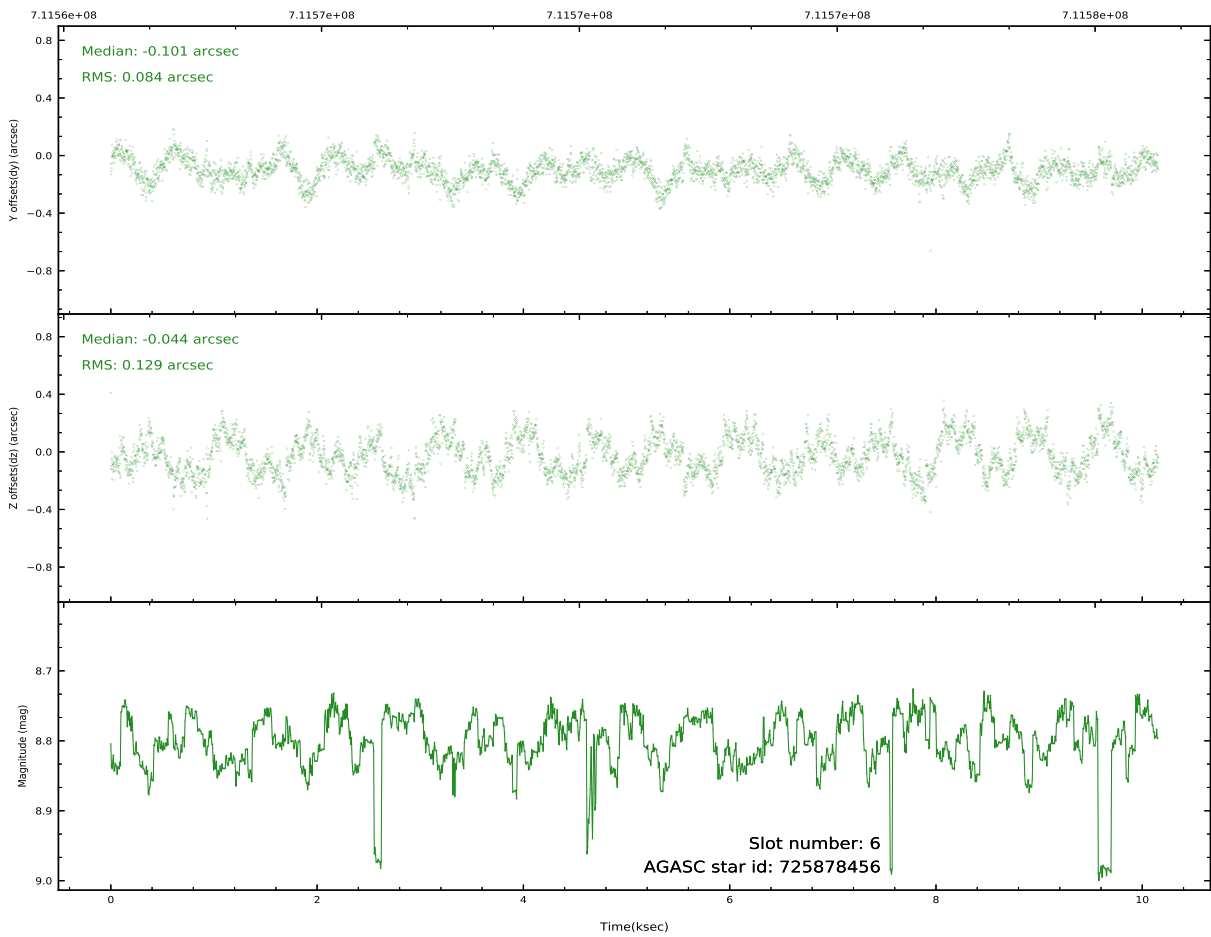
Time (s)



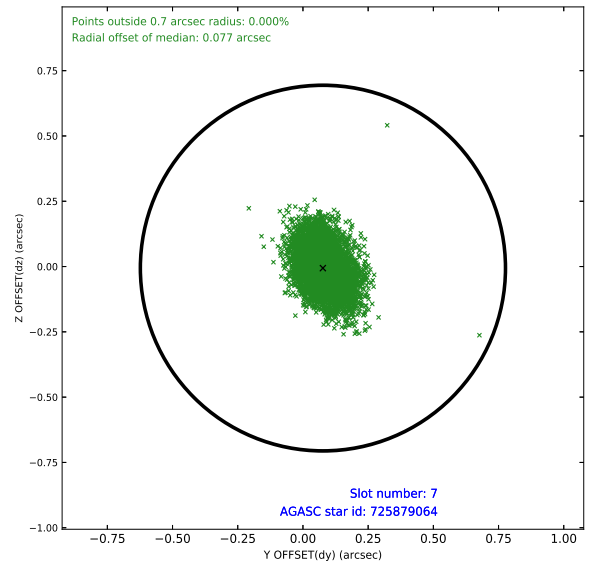
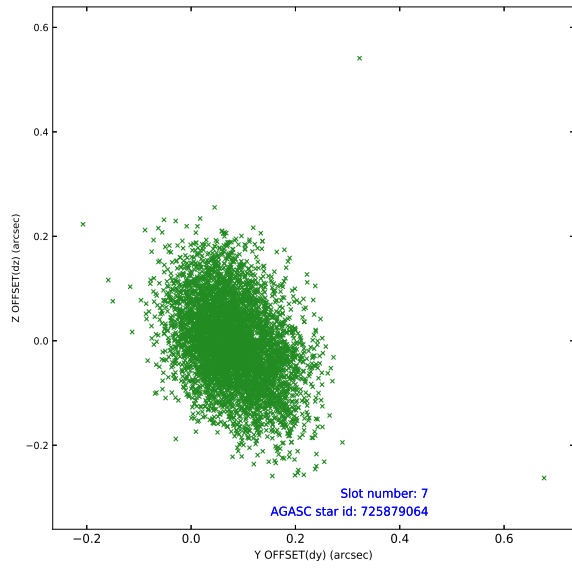
2.4.4 Slot 6



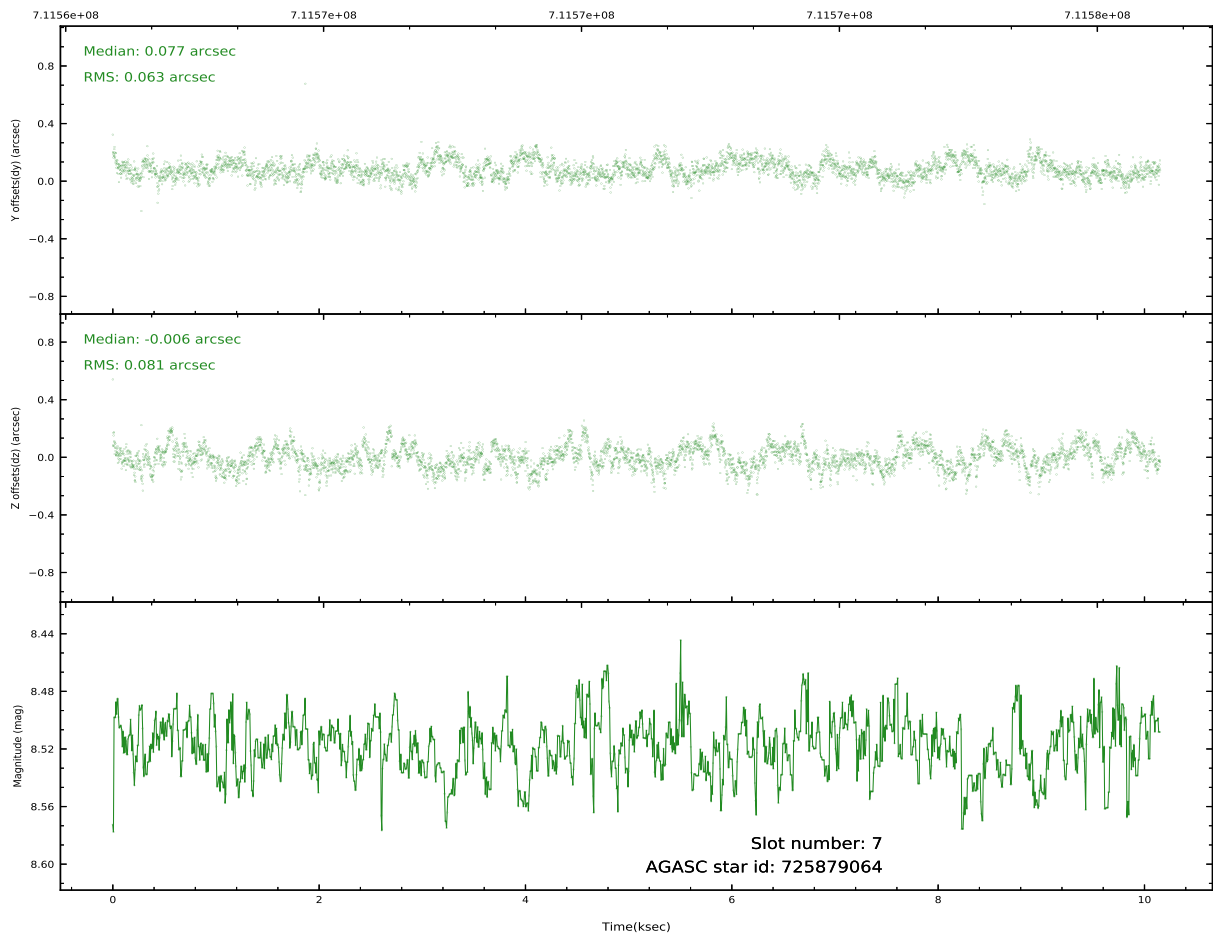
Time (s)



2.4.5 Slot 7

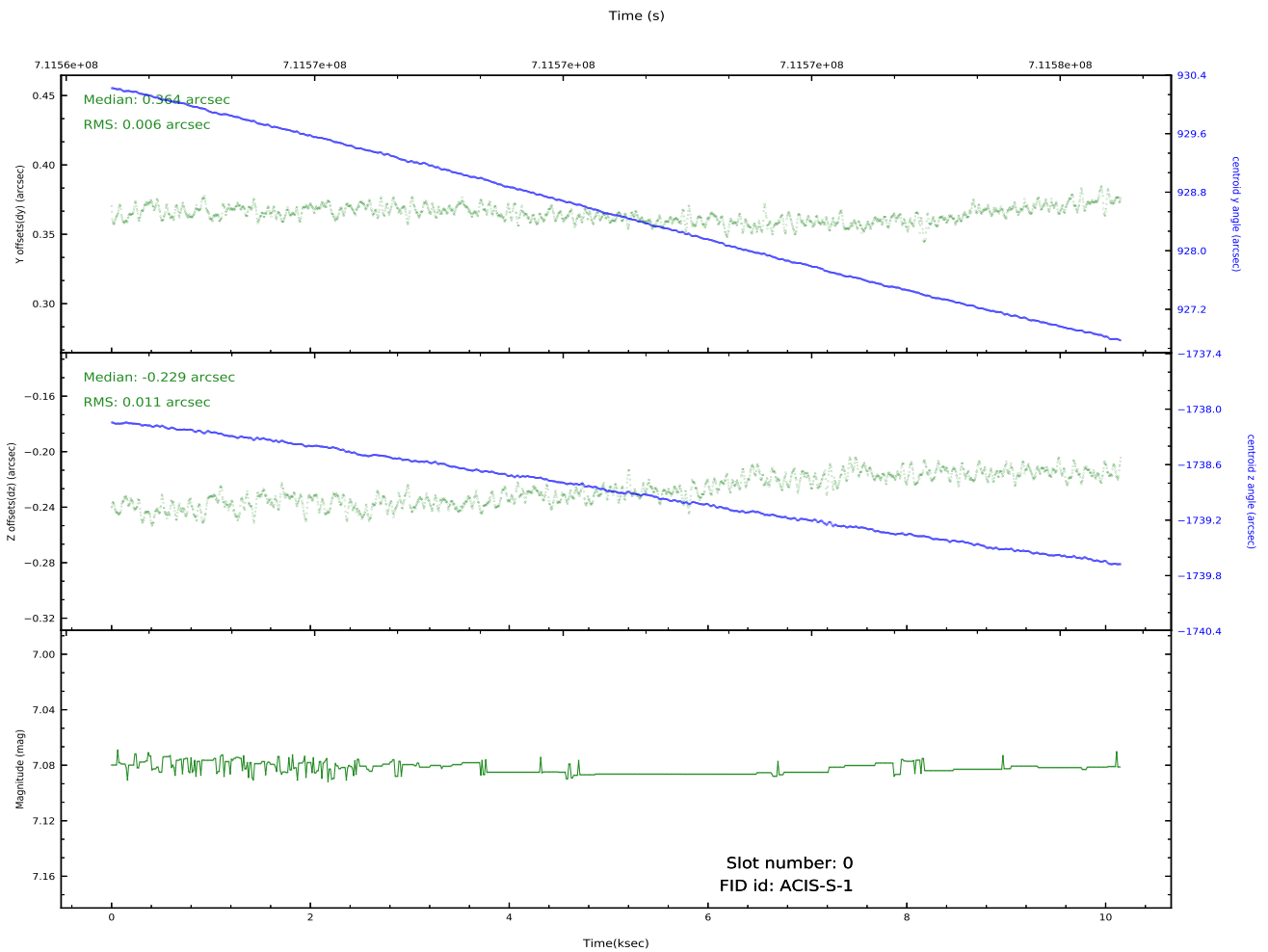
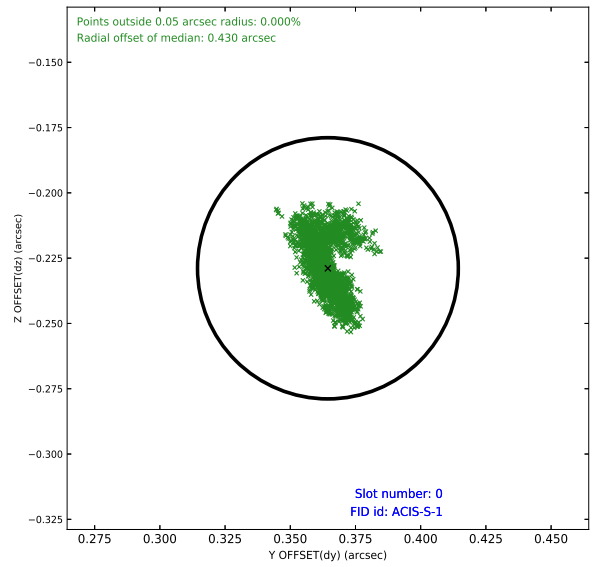
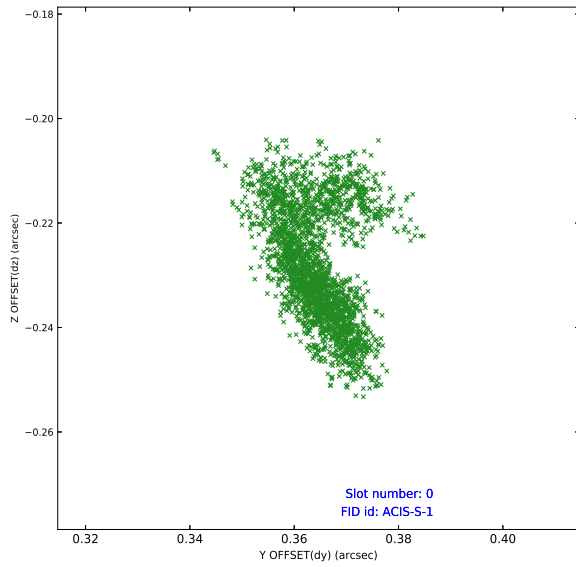


Time (s)

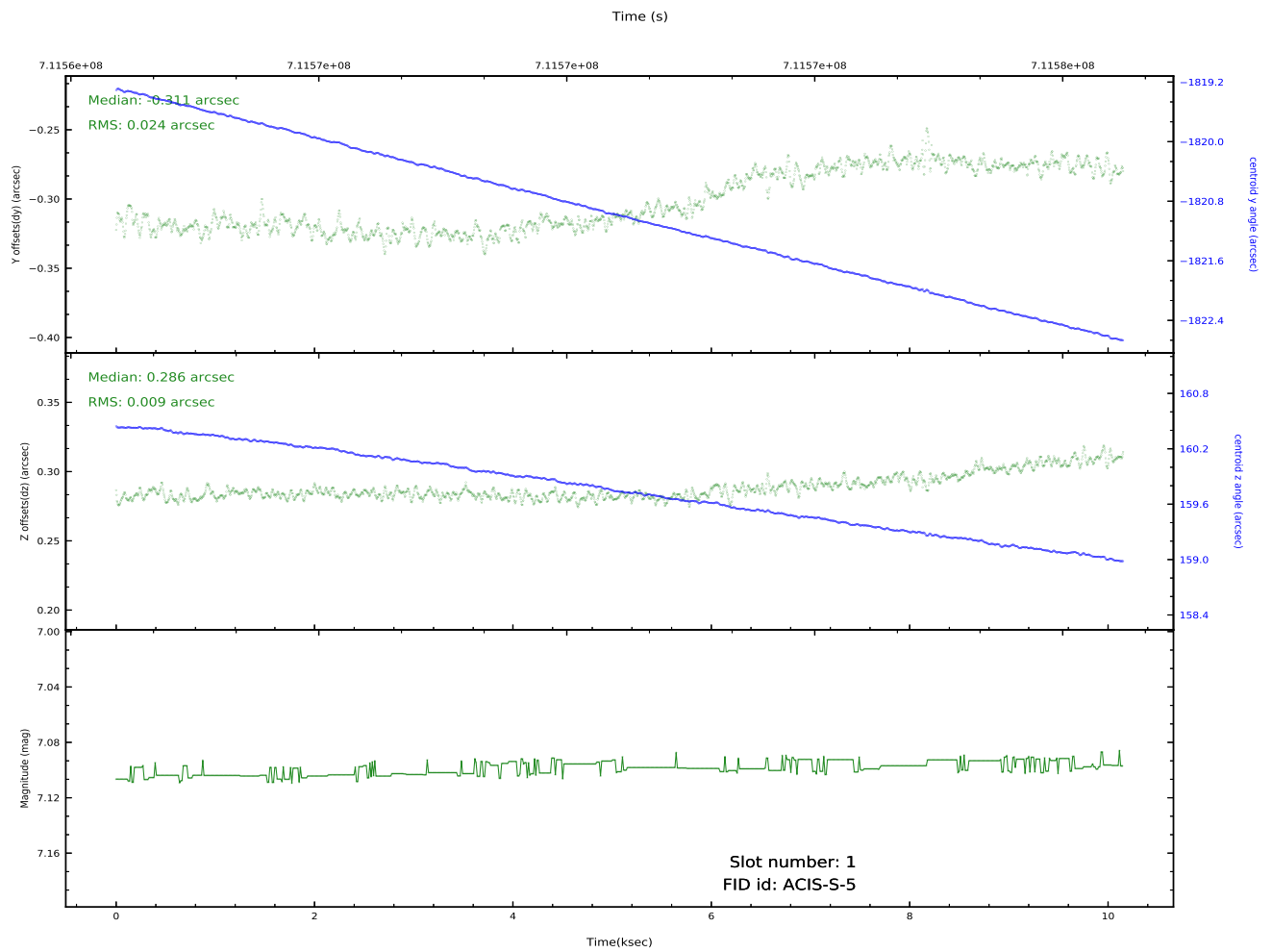
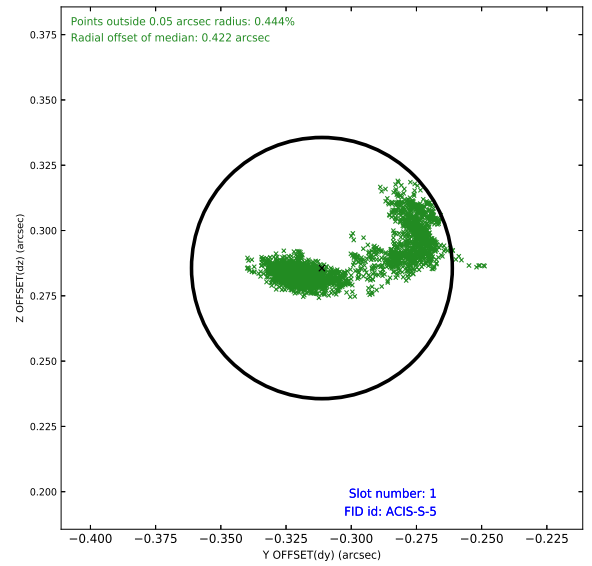
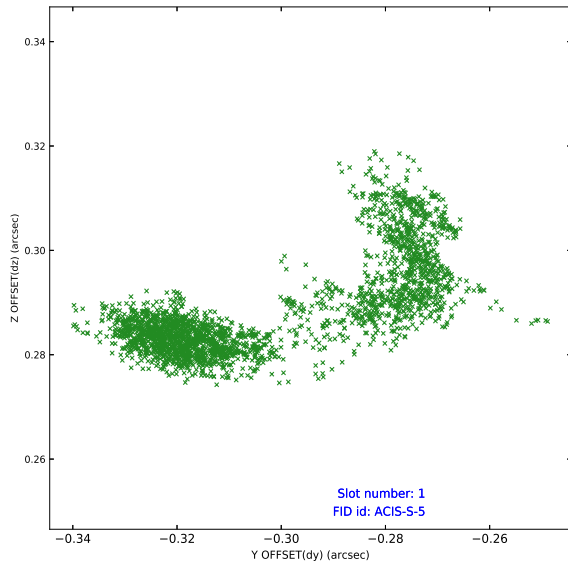


2.5 FID Slots

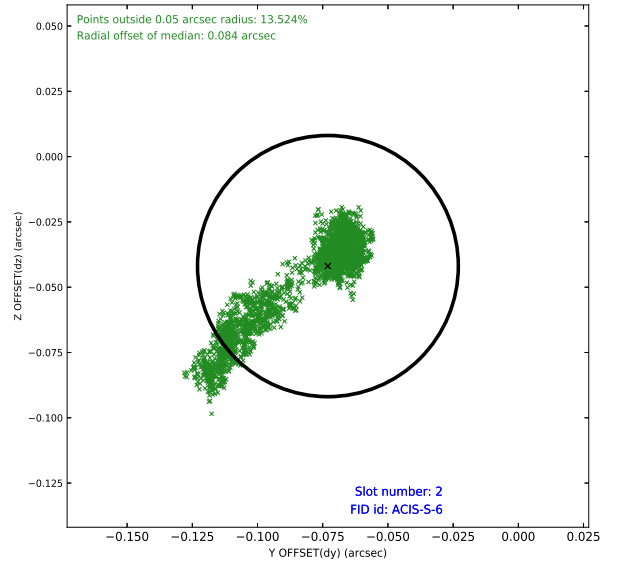
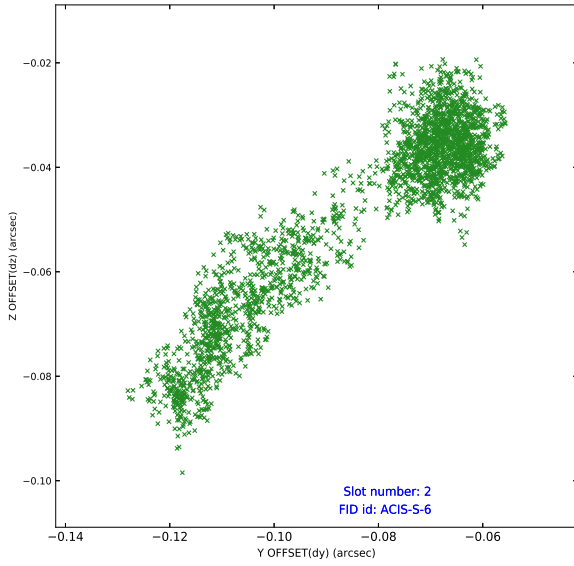
2.5.1 Slot 0



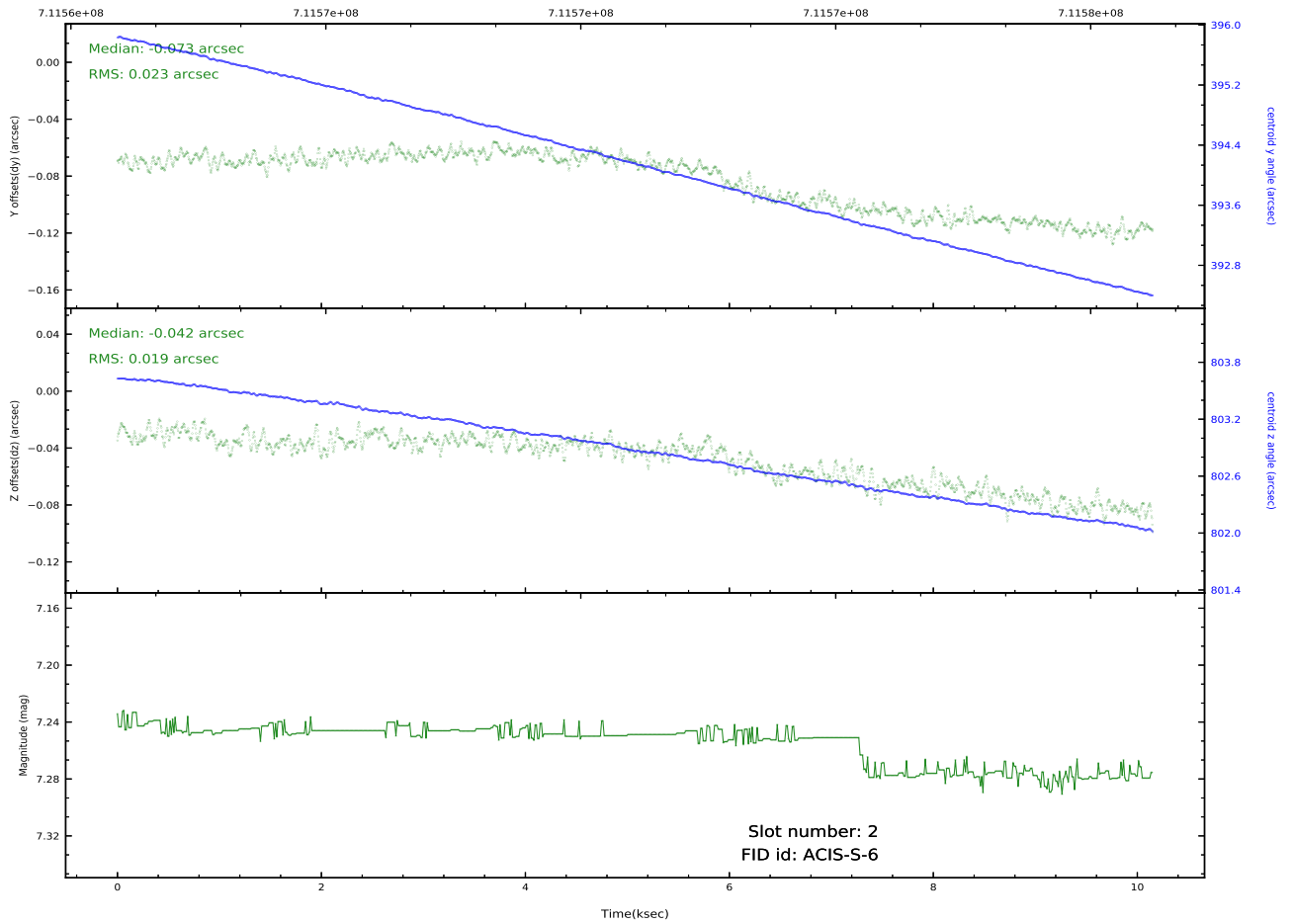
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2020.07.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.912

A.2 Comments