

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6113 - L2 Version 4
Chandra X-Ray Center

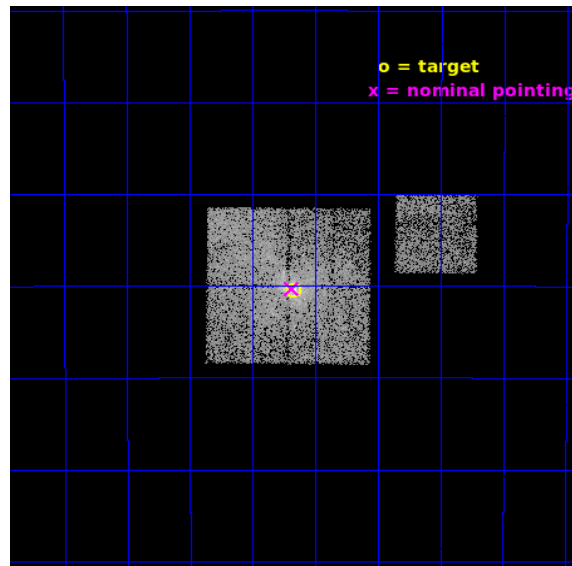
L2 Processing Date : Oct 6 2020

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1 Front

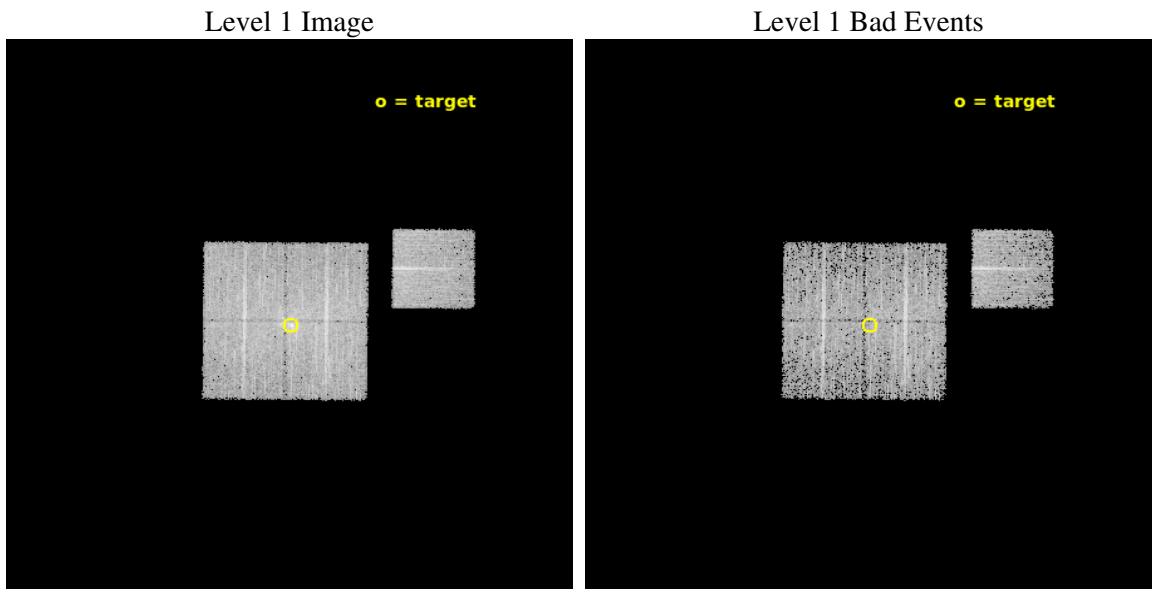
seq_num	600476	Sequence number
obs_id	6113	Observation id
title	Simultaneous Gamma-Ray to Sub-Millimeter Monitoring of Sagittarius A*	Proposal title
observer	Frederick Baganoff	Principal investigator
object	Sgr A*	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007778	Observer's specified target Dec [deg]
ra_nom	266.42157874248	Nominal RA [deg]
dec_nom	-29.005207962596	Nominal Dec [deg]
roll_nom	90.574171748641	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4919.6999905109	Sum of GTIs [s]
livetime	4855.4204883045	Livetime [s]
ontime0	4919.6999905109	Sum of GTIs [s]
ontime1	4919.6999905109	Sum of GTIs [s]
ontime2	4919.6999905109	Sum of GTIs [s]
ontime3	4919.6999905109	Sum of GTIs [s]
ontime6	4919.6999905109	Sum of GTIs [s]
l2events	39516	Number of level 2 events



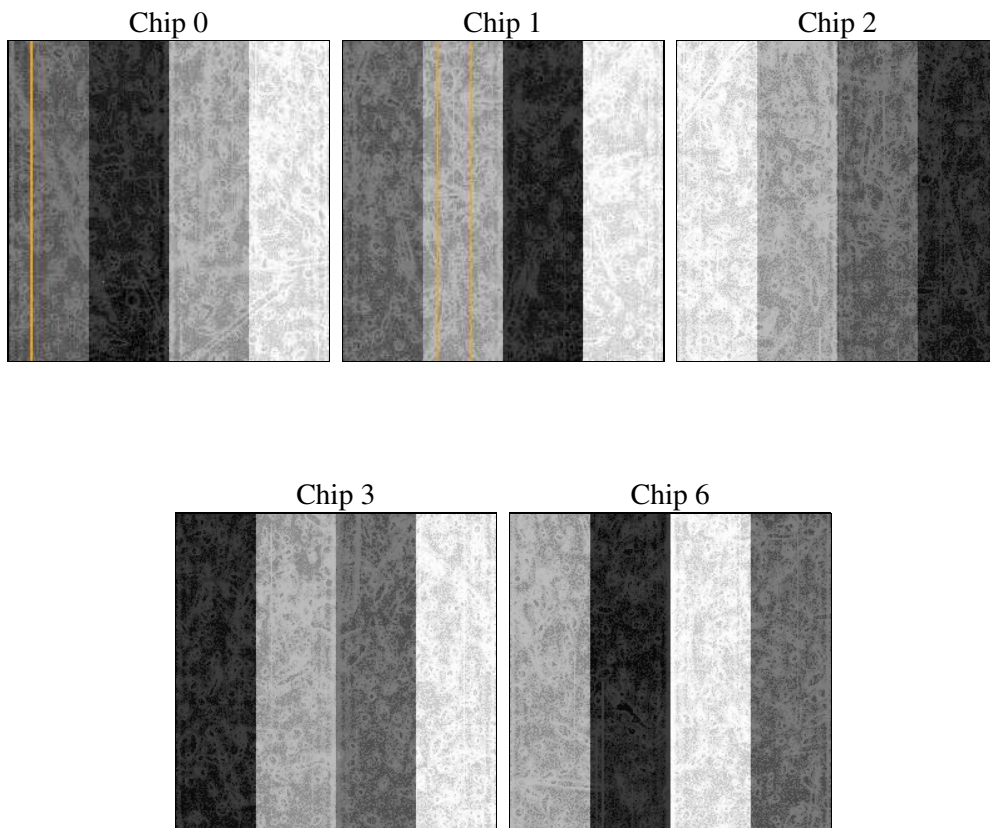
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4919.6999905109	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	4919.6999905109	Sum of GTIs [s]
date	2020-10-06T22:47:48	Date and time of file creation	ontime1	4919.6999905109	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4919.6999905109	Sum of GTIs [s]
			ontime3	4919.6999905109	Sum of GTIs [s]
			ontime6	4919.6999905109	Sum of GTIs [s]
			l1events	260052	Number of level 1 events

2.1.4 Events

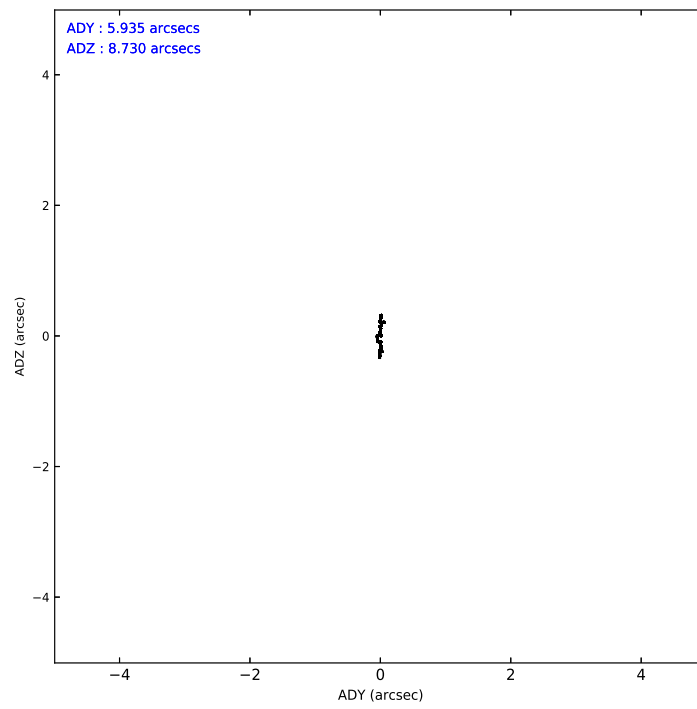
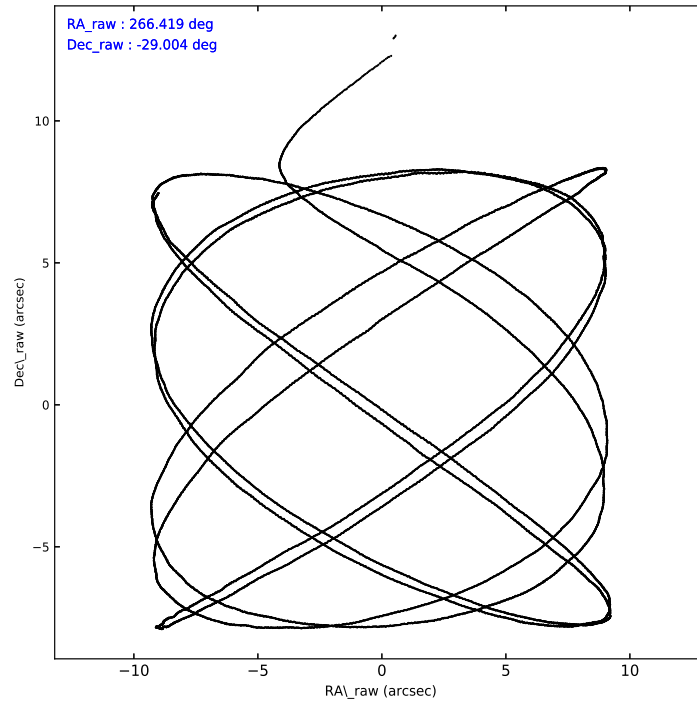
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	52328	49118	53361	54362	50883
rejected events	40872	39988	45243	44623	45495
rejected %	78%	81%	84%	82%	89%

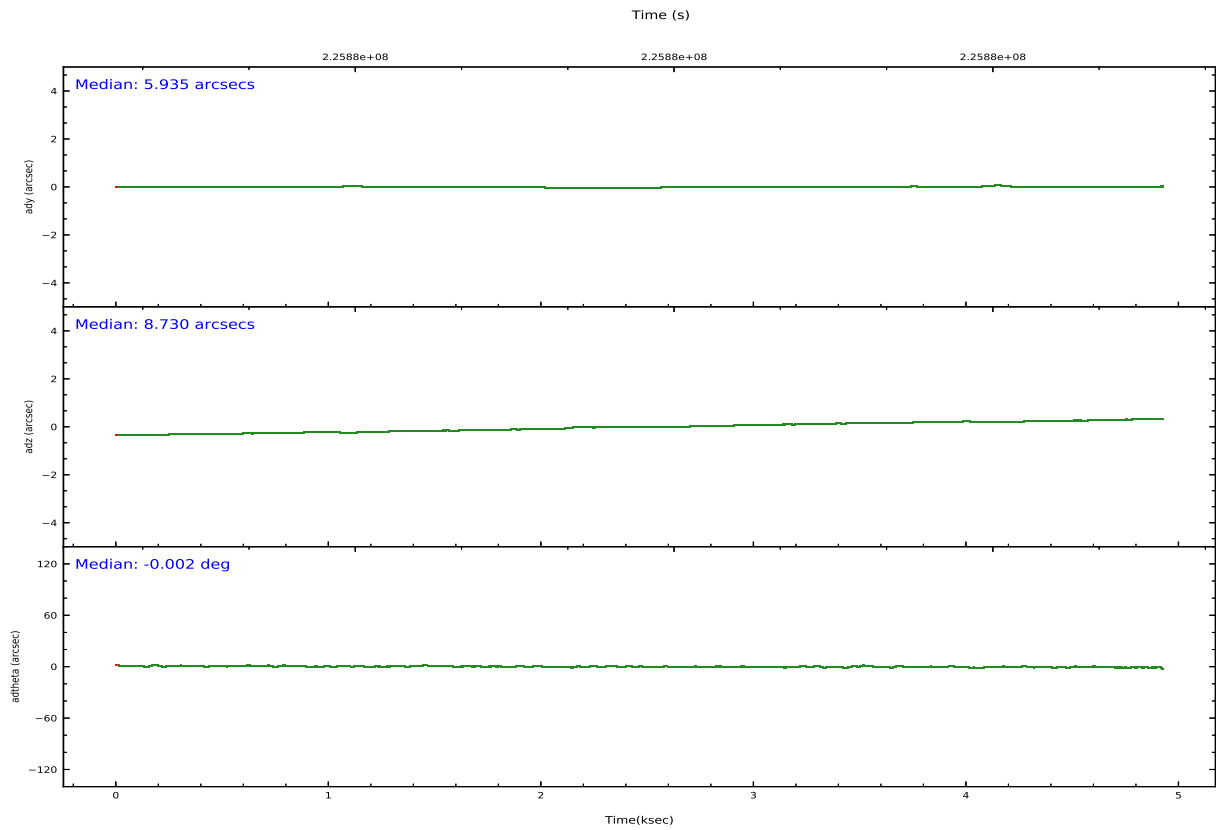
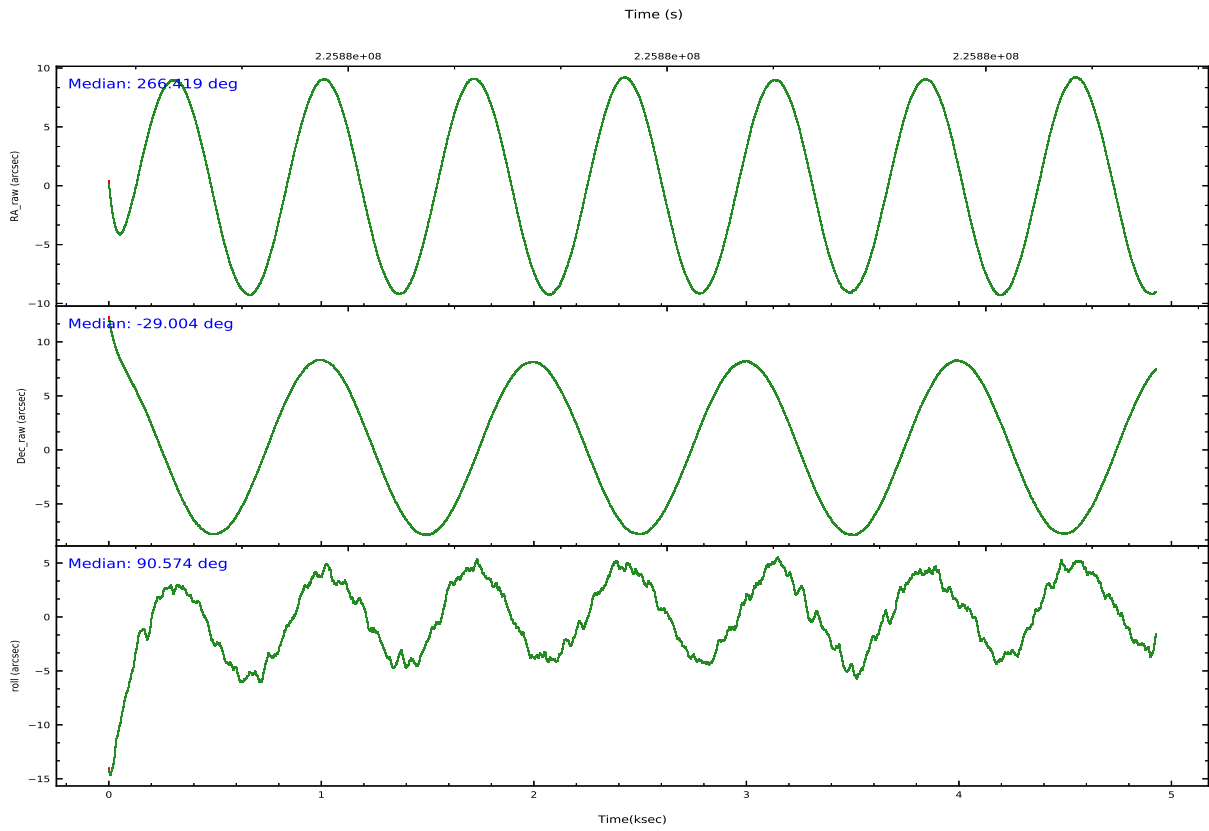
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7667	5933	5392	6438	3021
	14%	12%	10%	11%	5%
grade 1 events	66	42	44	48	26
	0%	0%	0%	0%	0%
grade 2 events	2256	1989	1667	1875	1364
	4%	4%	3%	3%	2%
grade 3 events	941	807	708	811	618
	1%	1%	1%	1%	1%
grade 4 events	915	766	713	844	604
	1%	1%	1%	1%	1%
grade 5 events	2029	2101	1964	2264	2277
	3%	4%	3%	4%	4%
grade 6 events	1512	1526	1236	1439	1264
	2%	3%	2%	2%	2%
grade 7 events	36942	35954	41637	40643	41709
	70%	73%	78%	74%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	266.434723	266.42157874248	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.027008	-29.005207962596	Alternating exposures requested	N	N
[deg] Pointing Roll	90.373878	90.57417174864101	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	225874502.184000	225872764.88554			
Observation start date	2005-02-27T06:53:58	2005-02-27T06:26:04			
[s] Observation end time (MET)	225879302.184000	225880165.89837			
Observation end date	2005-02-27T08:13:58	2005-02-27T08:29:25			
Read mode	TIMED	TIMED			

2.3 Aspect





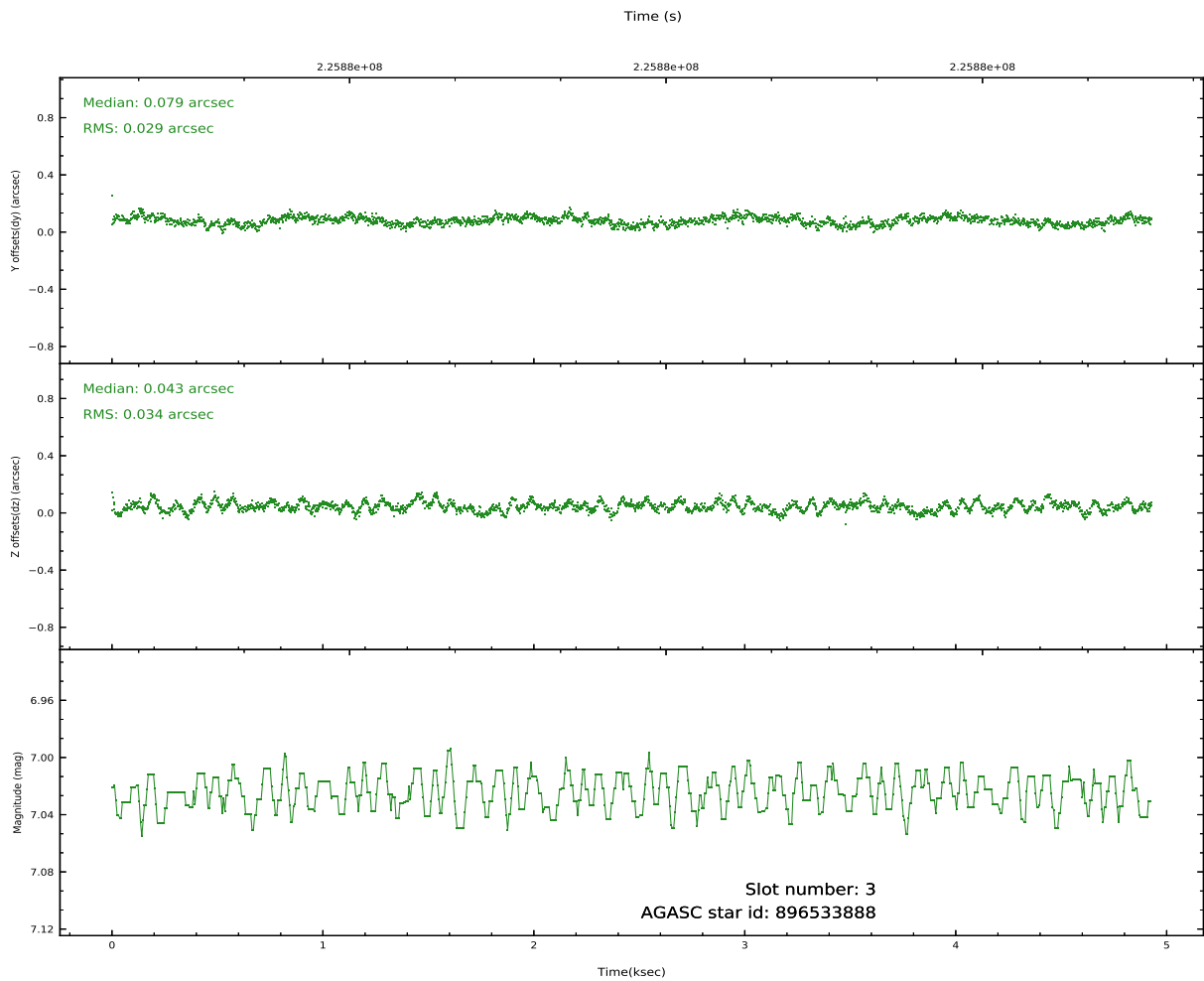
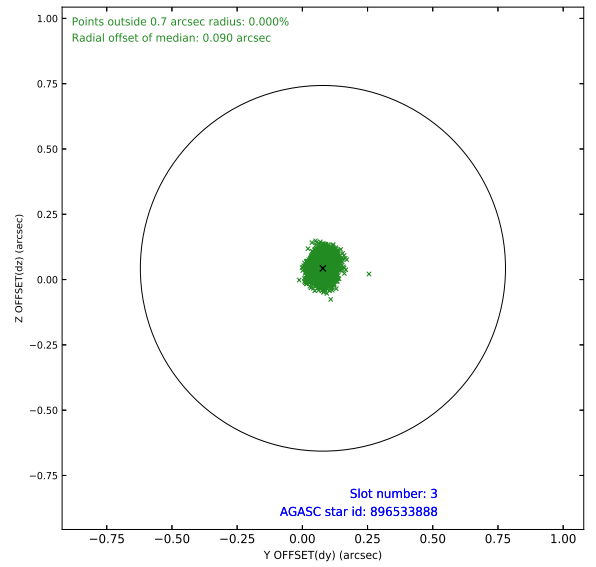
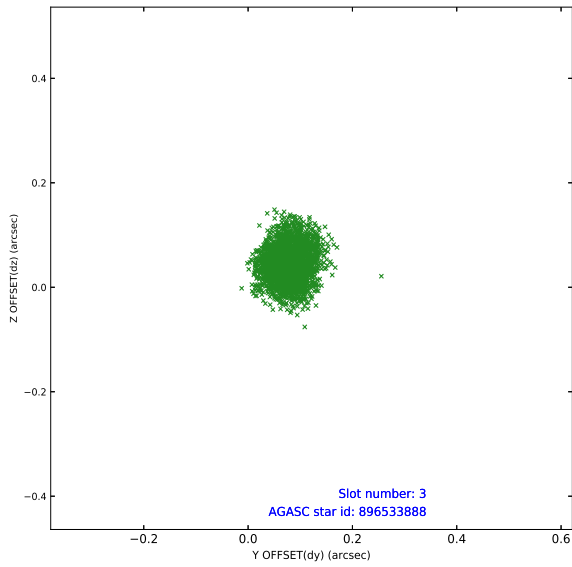
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.25	1202	1.000	-0.018	0.022	0.010	0.015	0.000000	0.000000	933.77	-832
1	FID		ACIS-I-4	7.19	1203	1.000	0.153	0.017	0.008	0.012	0.000000	0.000000	2154.66	1067
2	FID		ACIS-I-5	7.23	1202	1.000	-0.234	0.032	0.008	0.015	0.000000	0.000000	-1812.86	1066
3	GUIDE	used	896533888	7.02	2405	1.000	0.079	0.043	0.048	0.075	266.666434	-29.392757	-1321.81	-718
4	GUIDE	used	896537176	8.03	2405	1.000	-0.043	0.010	0.050	0.082	266.498272	-28.678259	1253.71	-209
5	GUIDE	used	896404568	7.86	2405	1.000	-0.177	-0.309	0.051	0.081	265.687293	-28.431080	2153.87	2352
6	GUIDE	used	896537776	7.52	2405	1.000	0.227	0.069	0.054	0.087	266.655684	-29.665673	-2302.90	-675
7	GUIDE	used	896538840	8.92	2403	1.000	-0.086	0.186	0.074	0.118	266.920426	-28.466925	2001.95	-1550

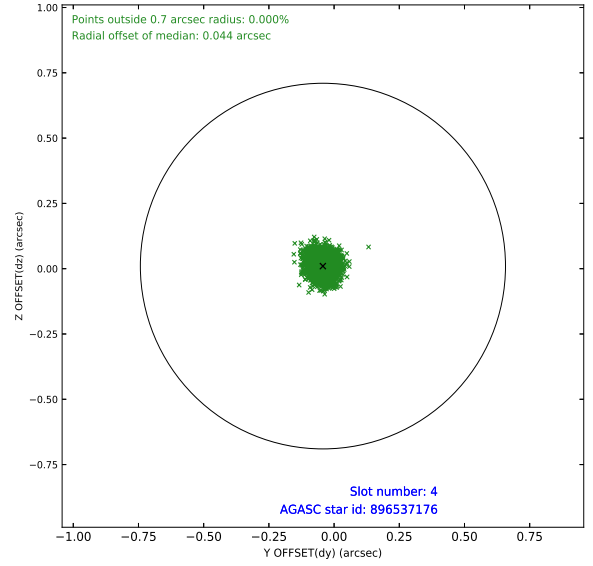
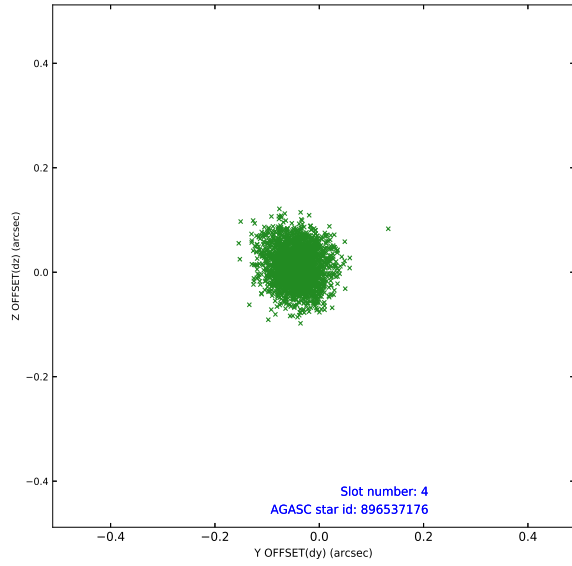
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2.4 Star Slots

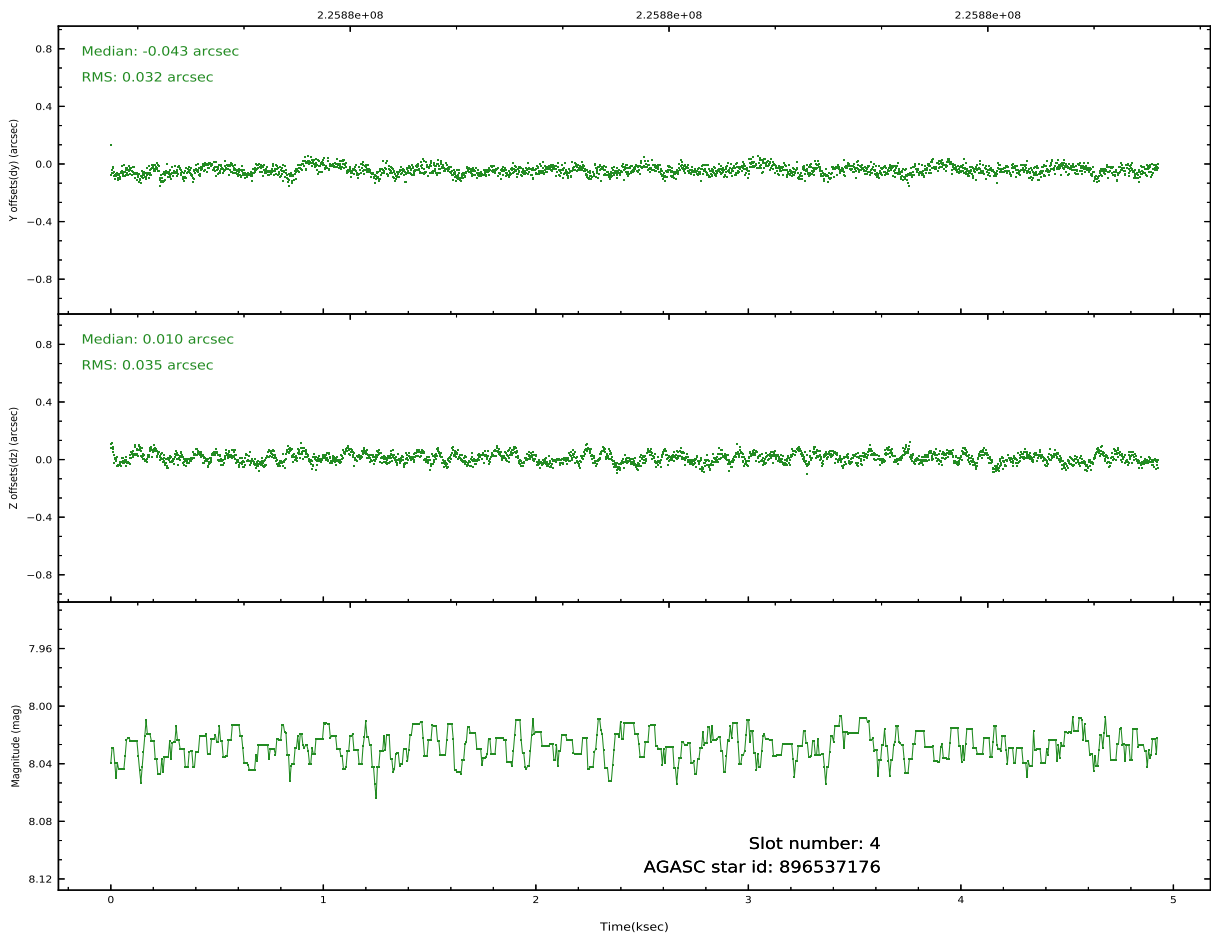
2.4.1 Slot 3



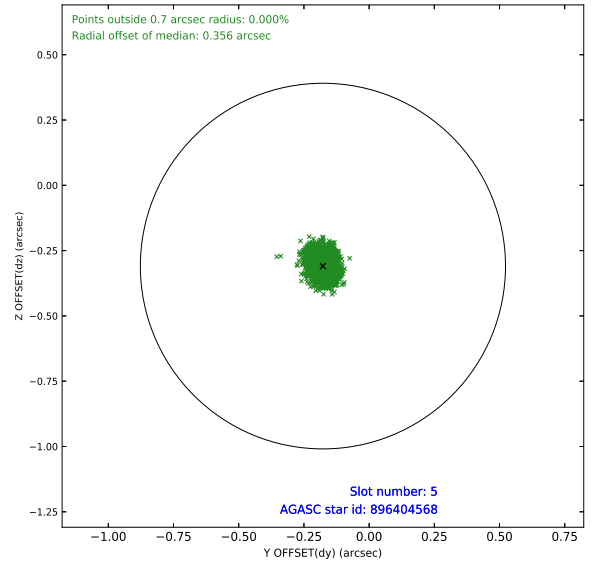
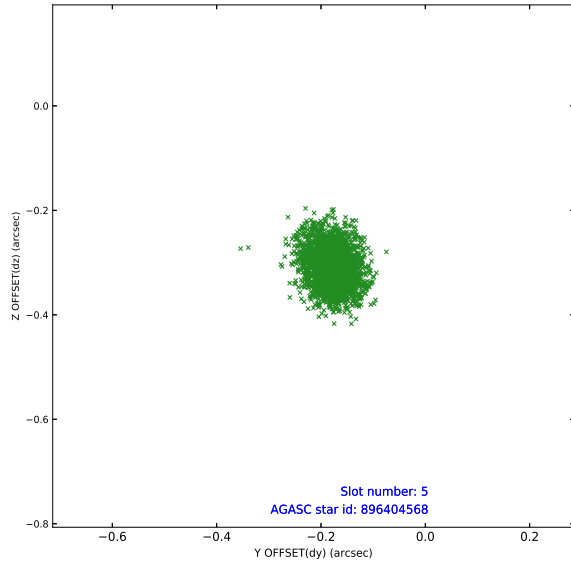
2.4.2 Slot 4



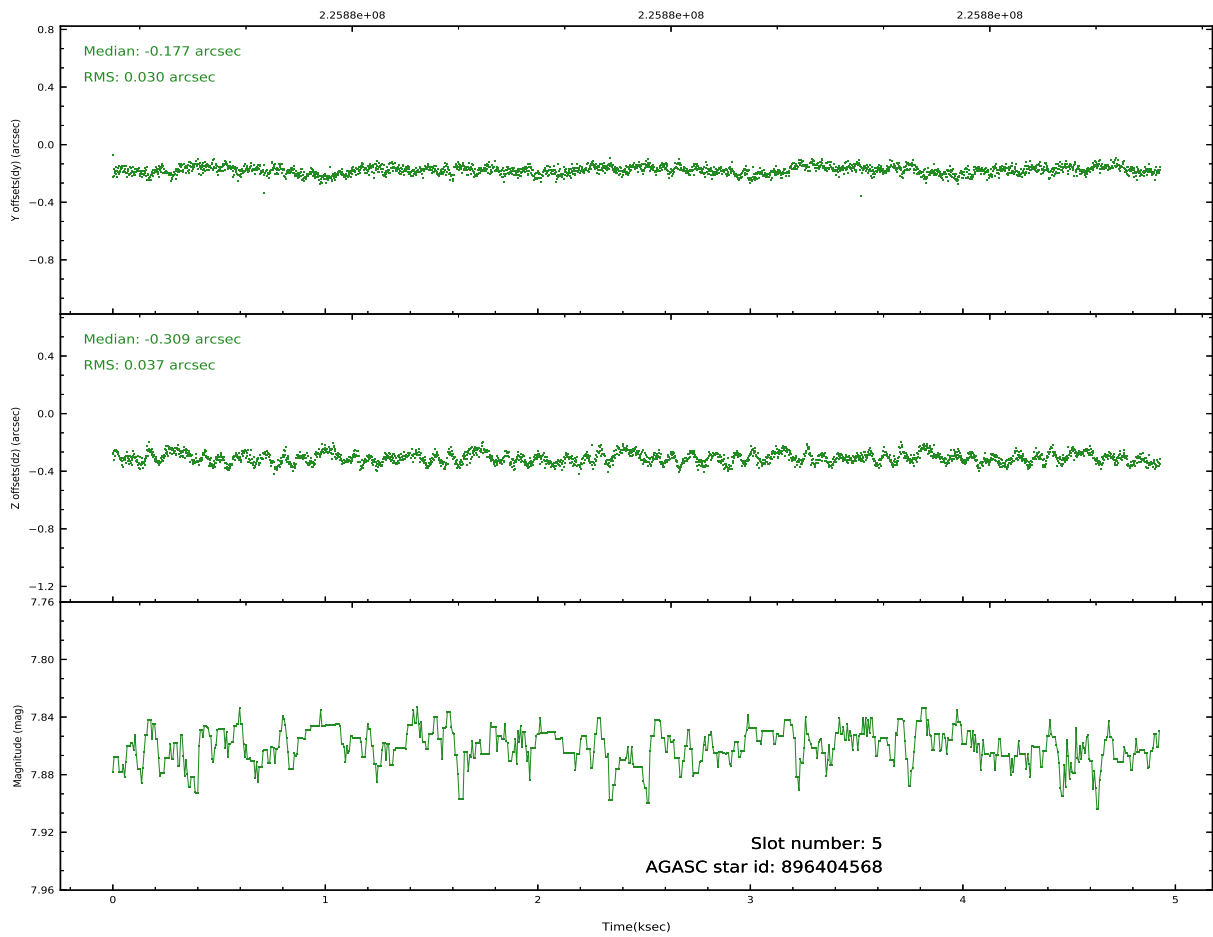
Time (s)



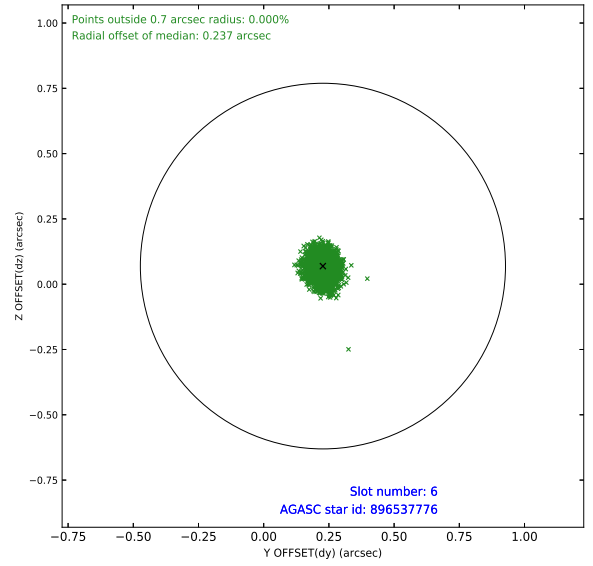
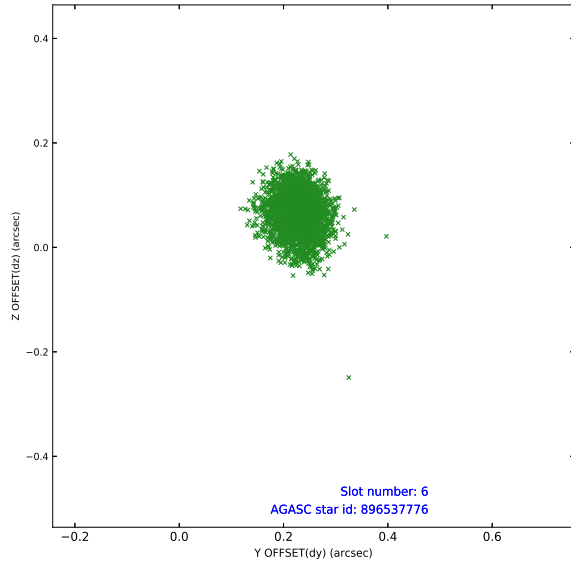
2.4.3 Slot 5



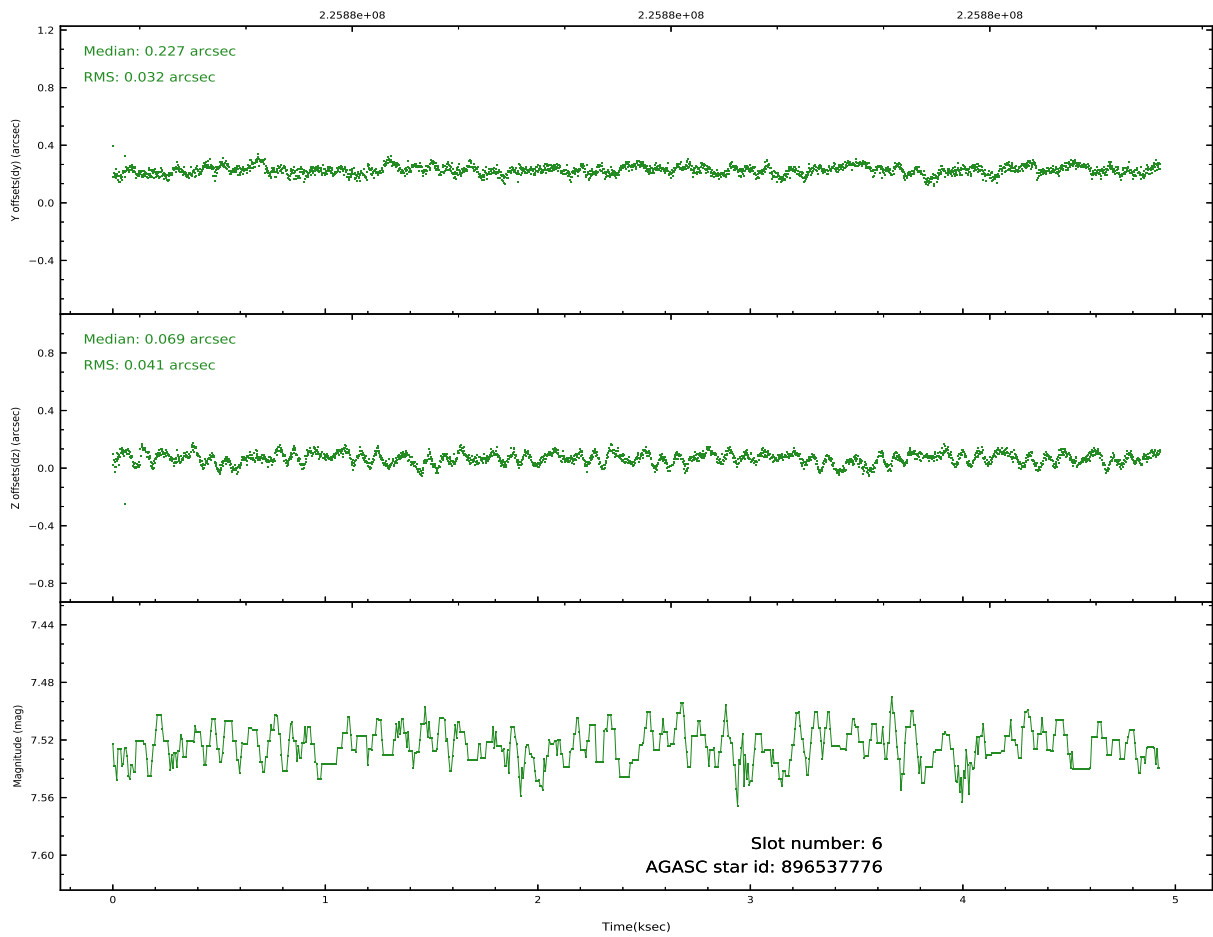
Time (s)



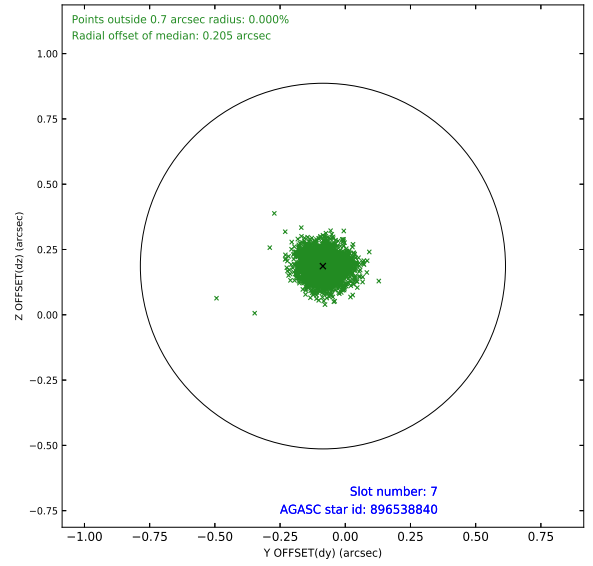
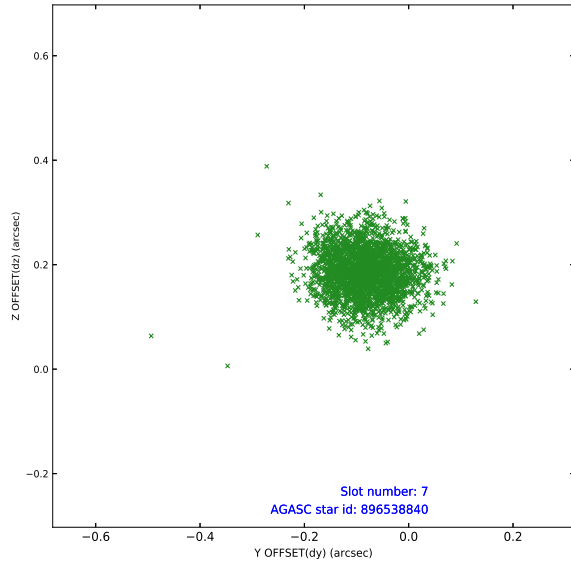
2.4.4 Slot 6



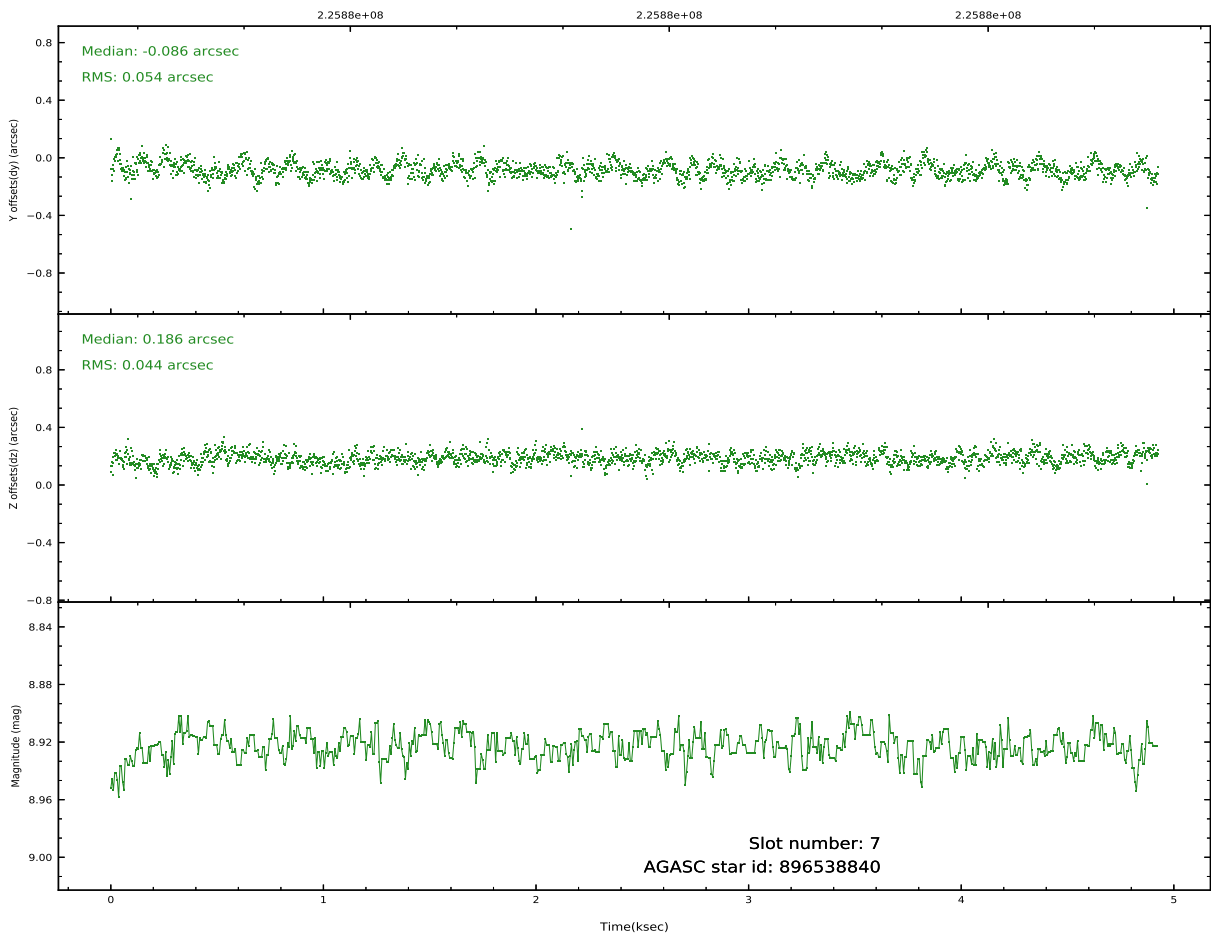
Time (s)



2.4.5 Slot 7

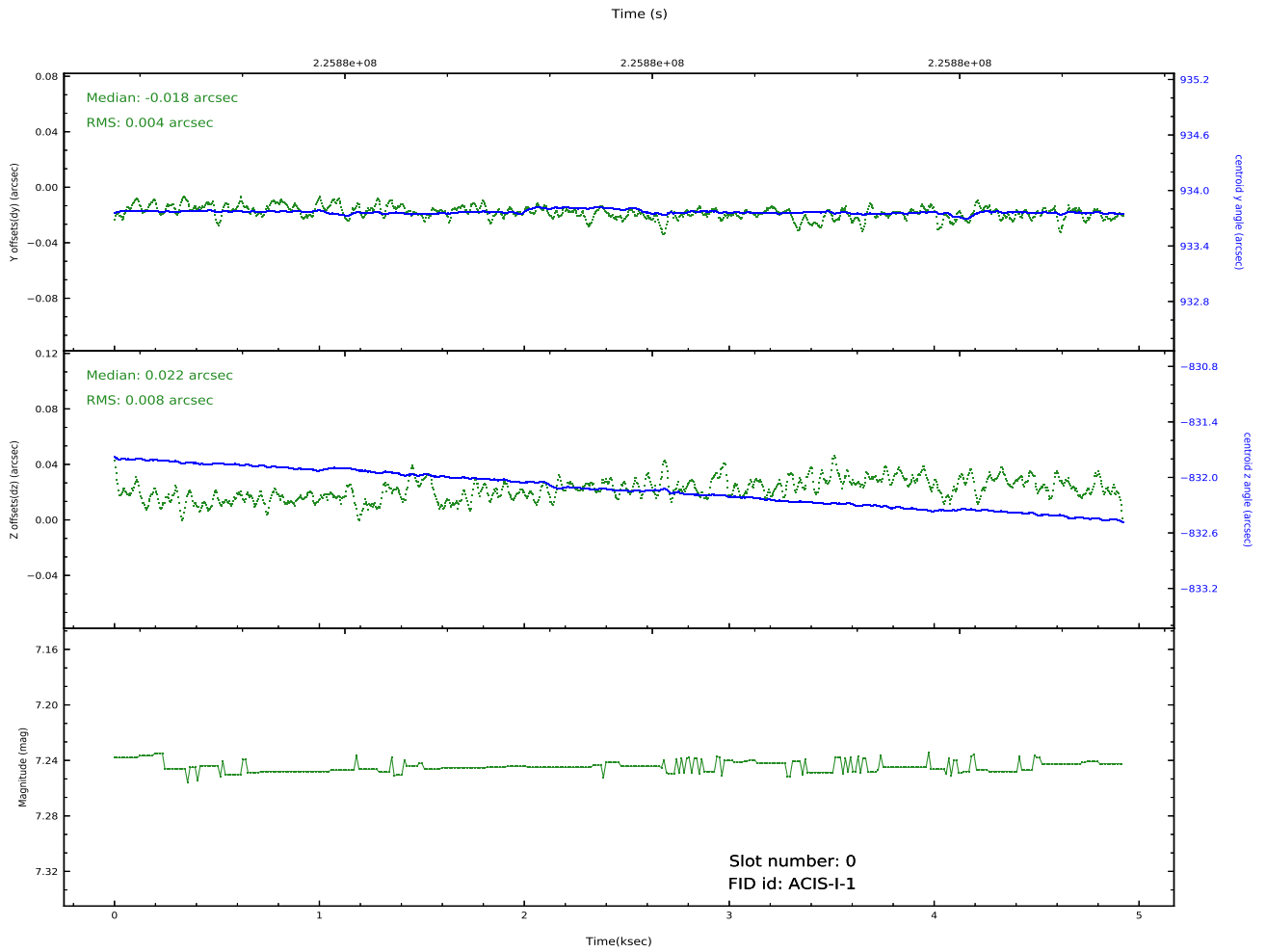
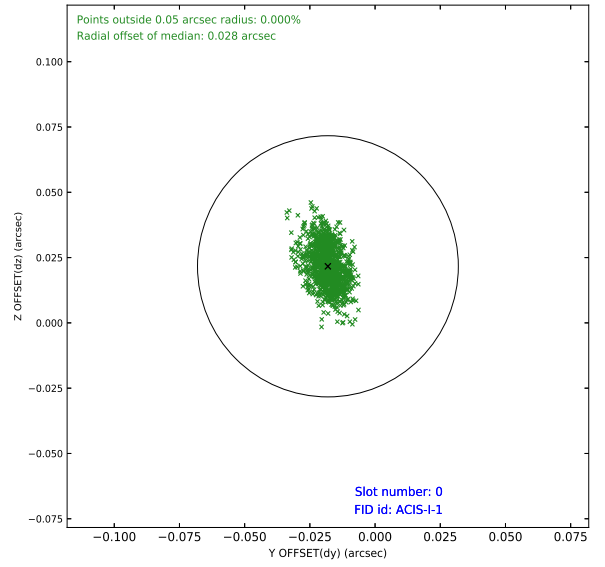
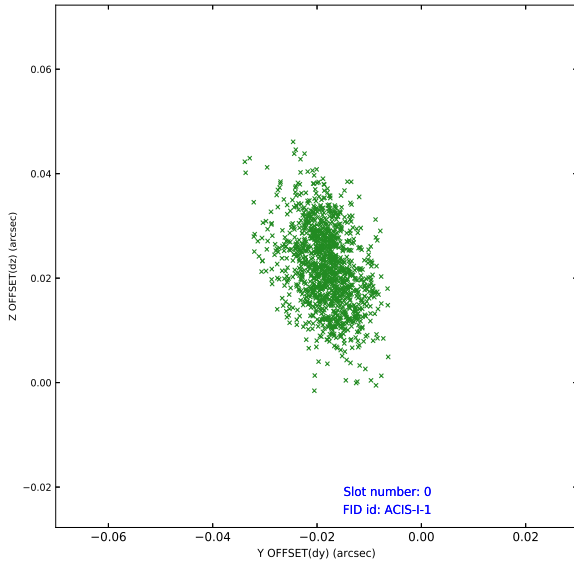


Time (s)

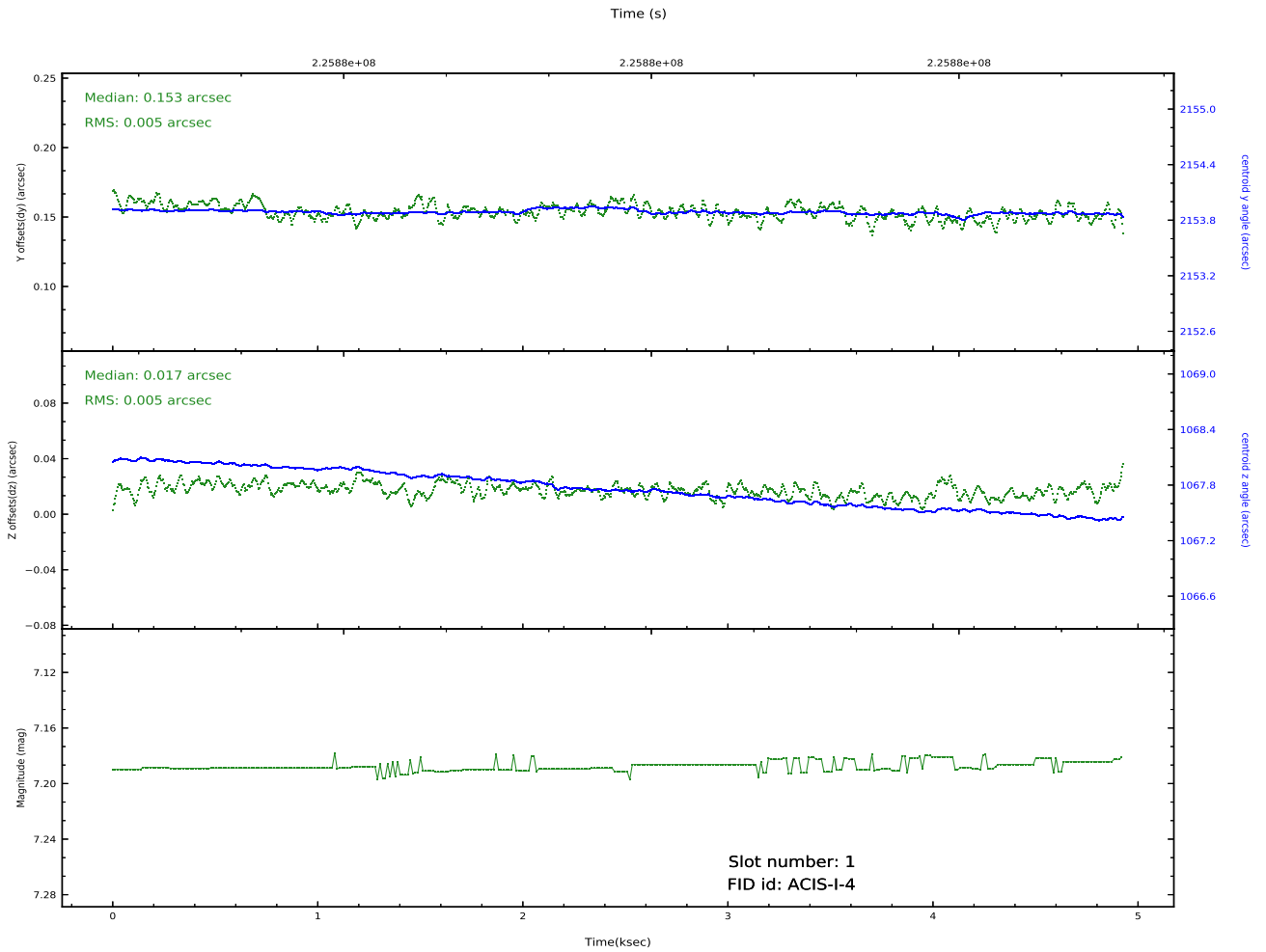
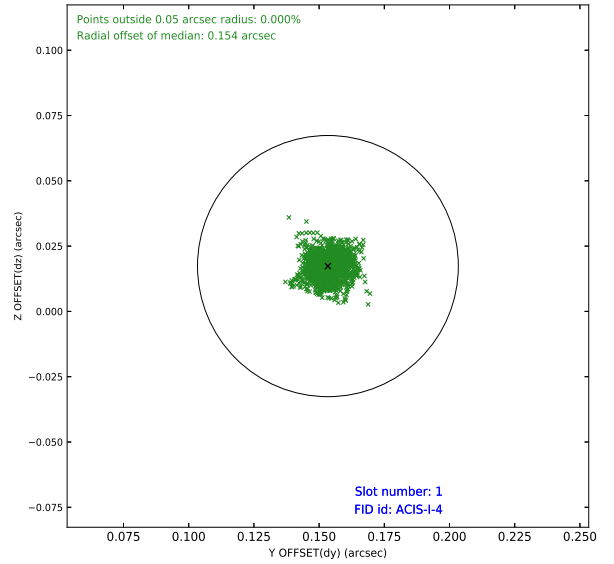
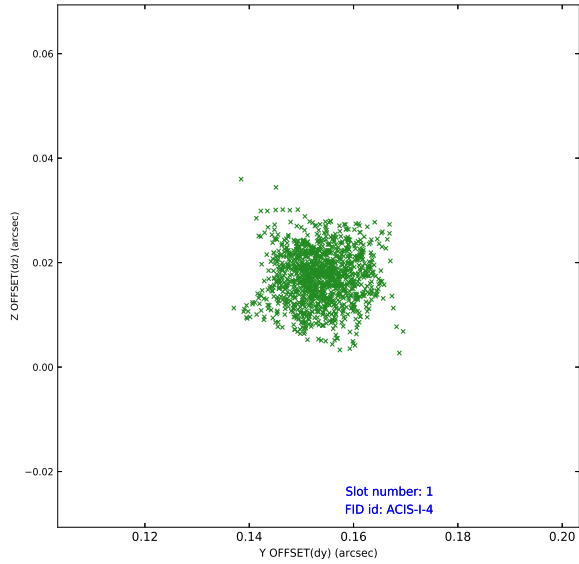


2.5 FID Slots

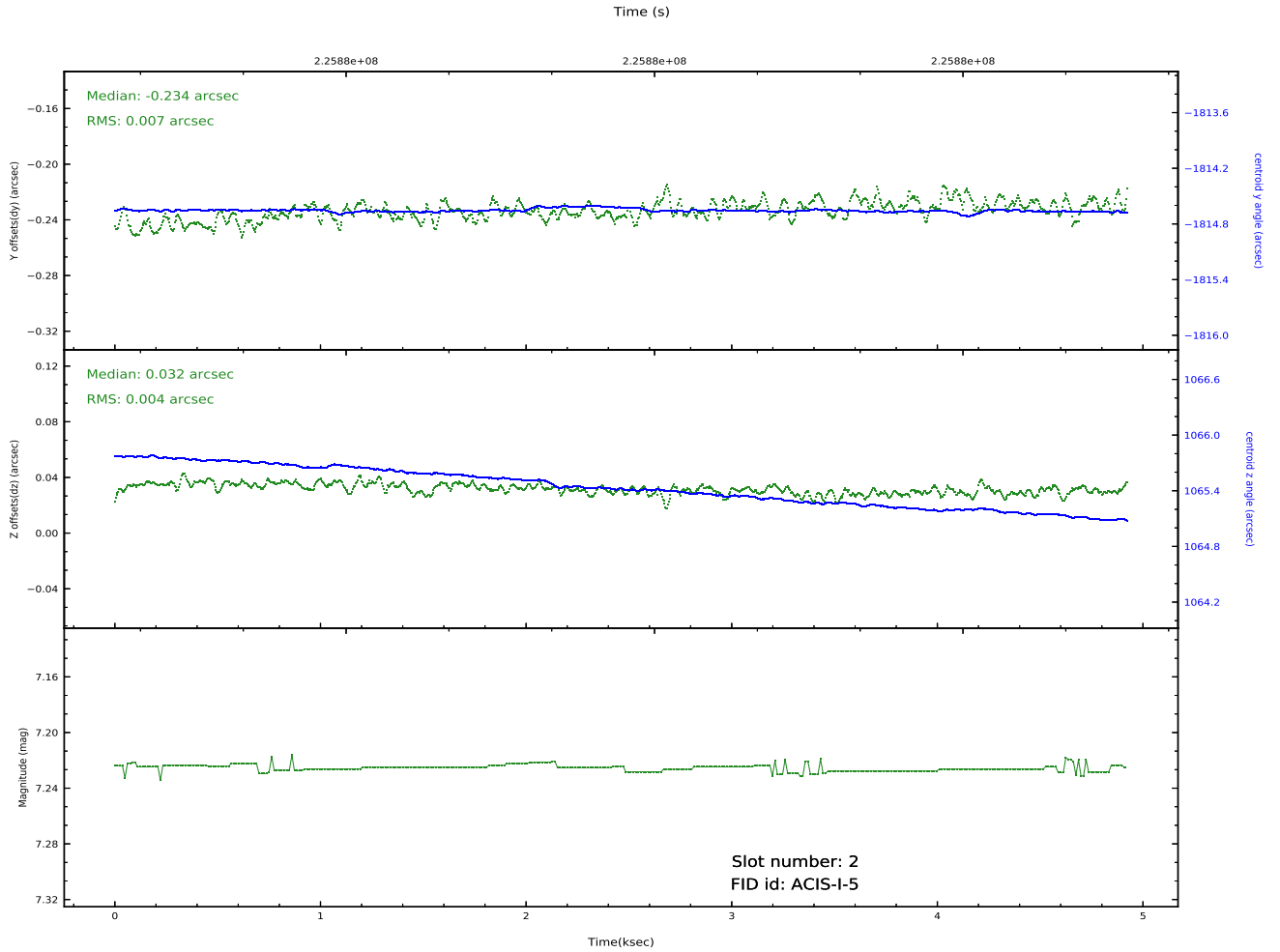
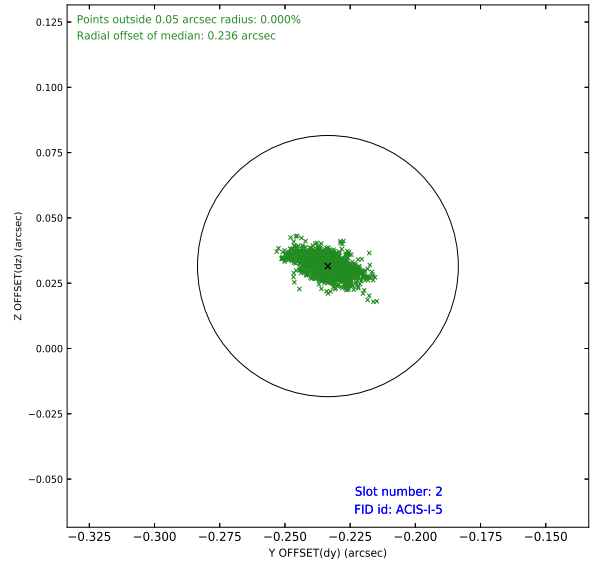
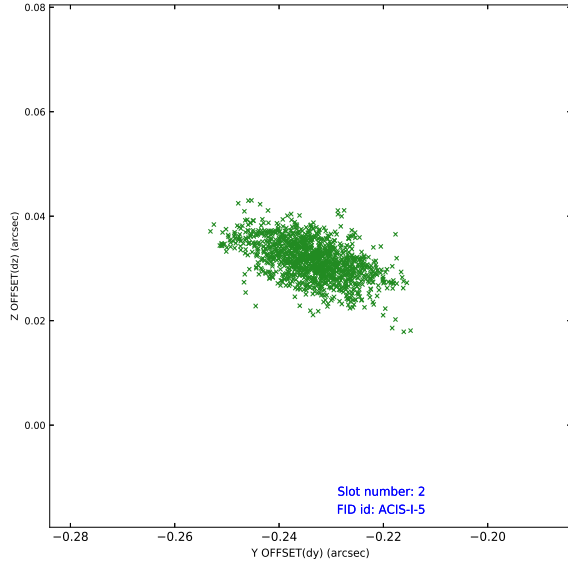
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.919699

A.2 Comments

Window constraint met.