

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6051 - L2 Version 4
Chandra X-Ray Center

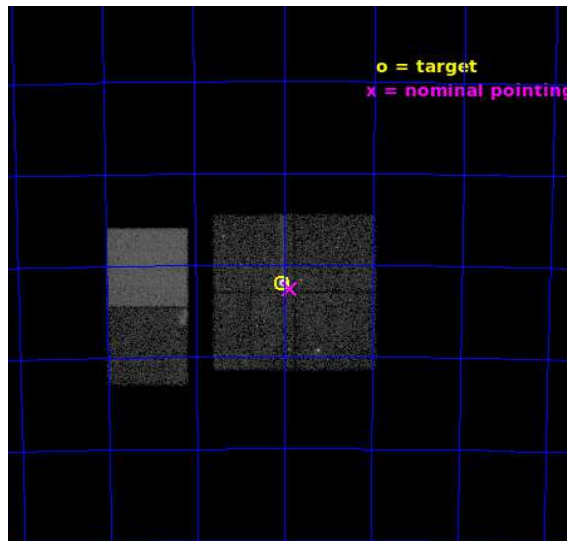
L2 Processing Date : Oct 6 2020

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1 Front

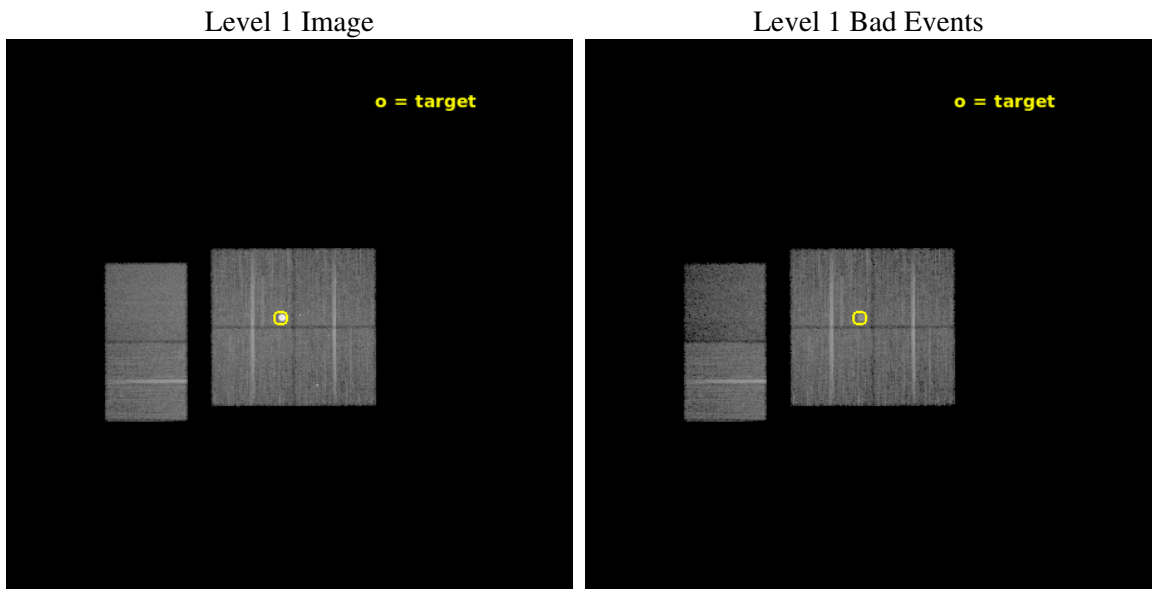
seq_num	590378	Sequence number
obs_id	6051	Observation id
title	AO6A ACIS-I Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72.3	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.967297820411	Nominal RA [deg]
dec_nom	-72.043025613634	Nominal Dec [deg]
roll_nom	269.80325901966	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18150.399932384	Sum of GTIs [s]
livetime	17920.568639582	Livetime [s]
ontime0	18147.158962101	Sum of GTIs [s]
ontime1	18150.399932384	Sum of GTIs [s]
ontime2	18147.158942163	Sum of GTIs [s]
ontime3	18150.399932384	Sum of GTIs [s]
ontime6	18147.158991992	Sum of GTIs [s]
ontime7	18150.399932384	Sum of GTIs [s]
l2events	151100	Number of level 2 events



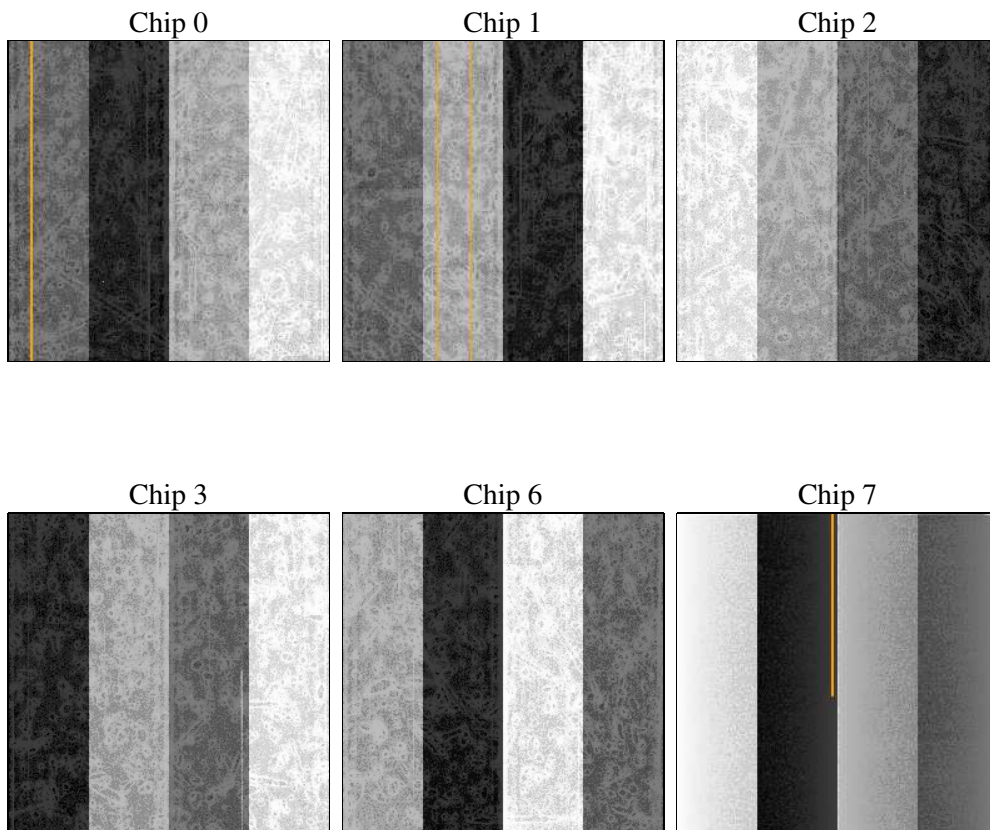
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18150.399932384	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	18147.158962101	Sum of GTIs [s]
date	2020-10-06T03:54:23	Date and time of file creation	ontime1	18150.399932384	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	18147.158942163	Sum of GTIs [s]
			ontime3	18150.399932384	Sum of GTIs [s]
			ontime6	18147.158991992	Sum of GTIs [s]
			ontime7	18150.399932384	Sum of GTIs [s]
			l1events	686077	Number of level 1 events

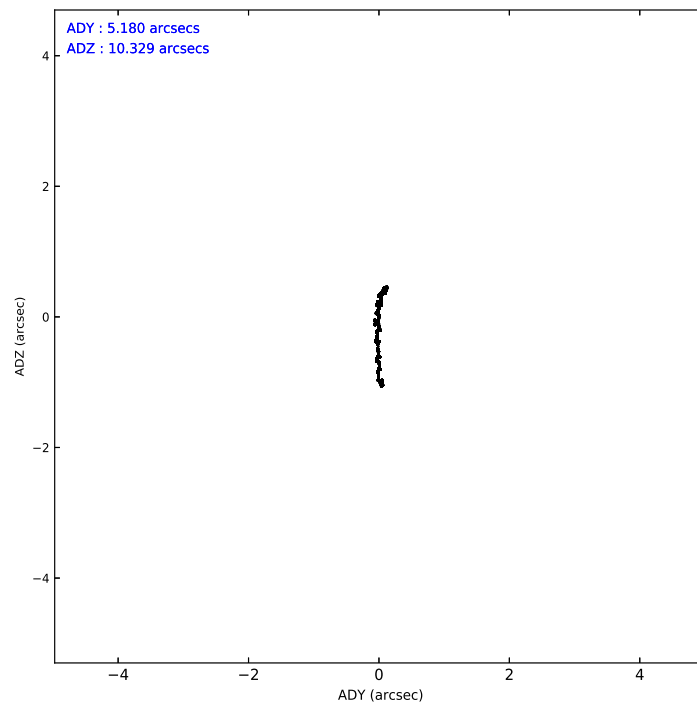
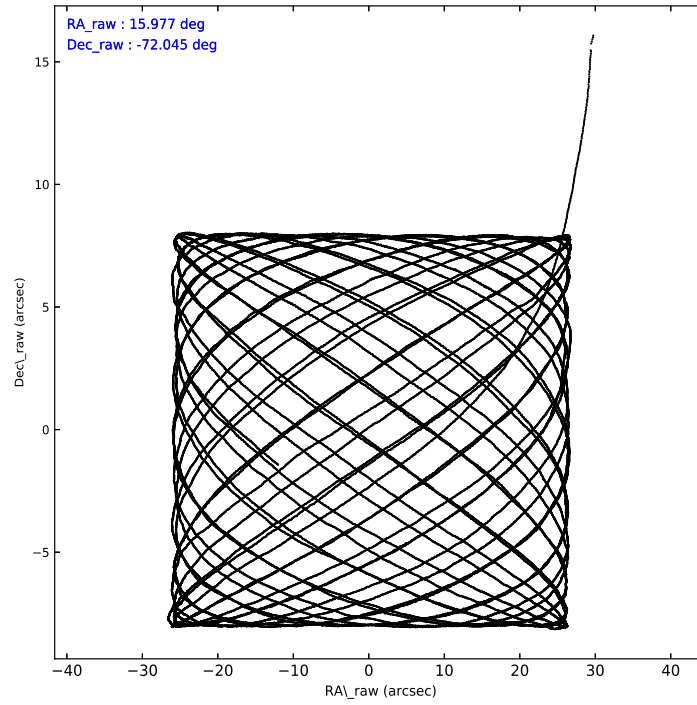
2.1.4 Events

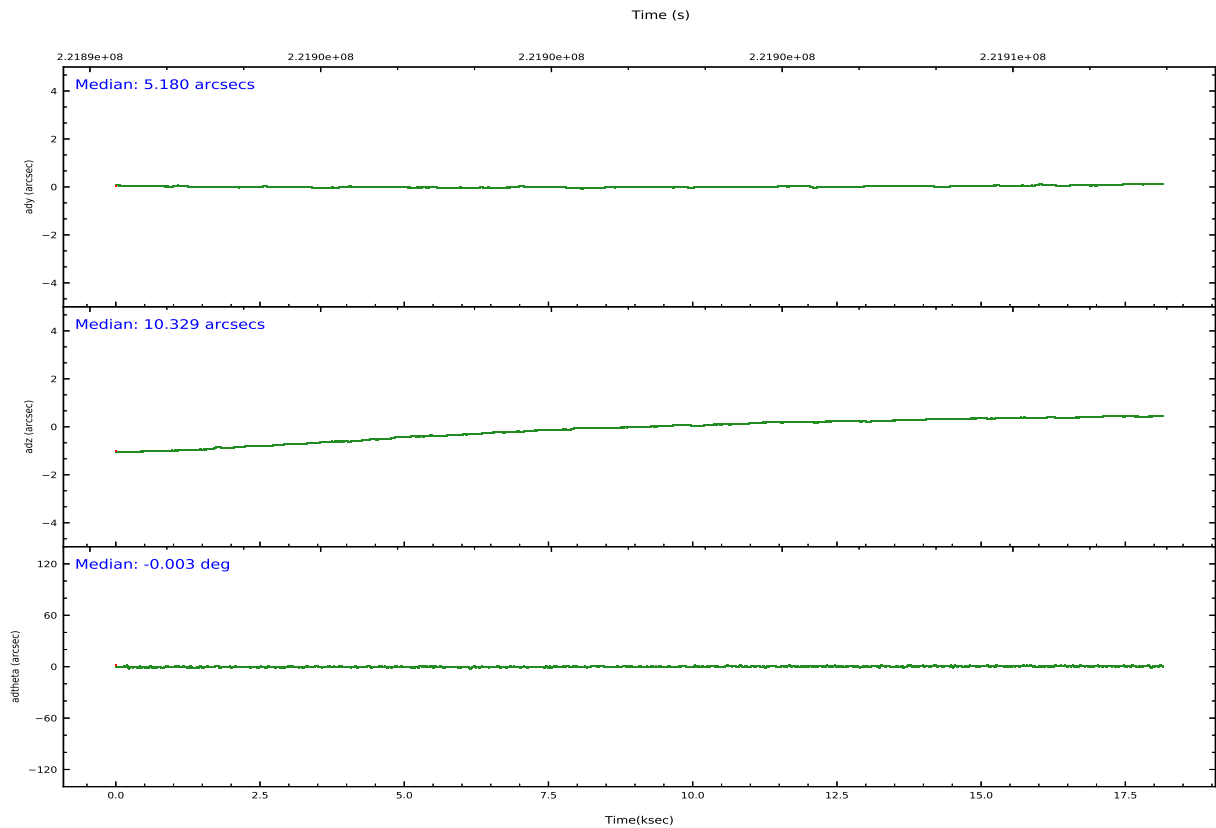
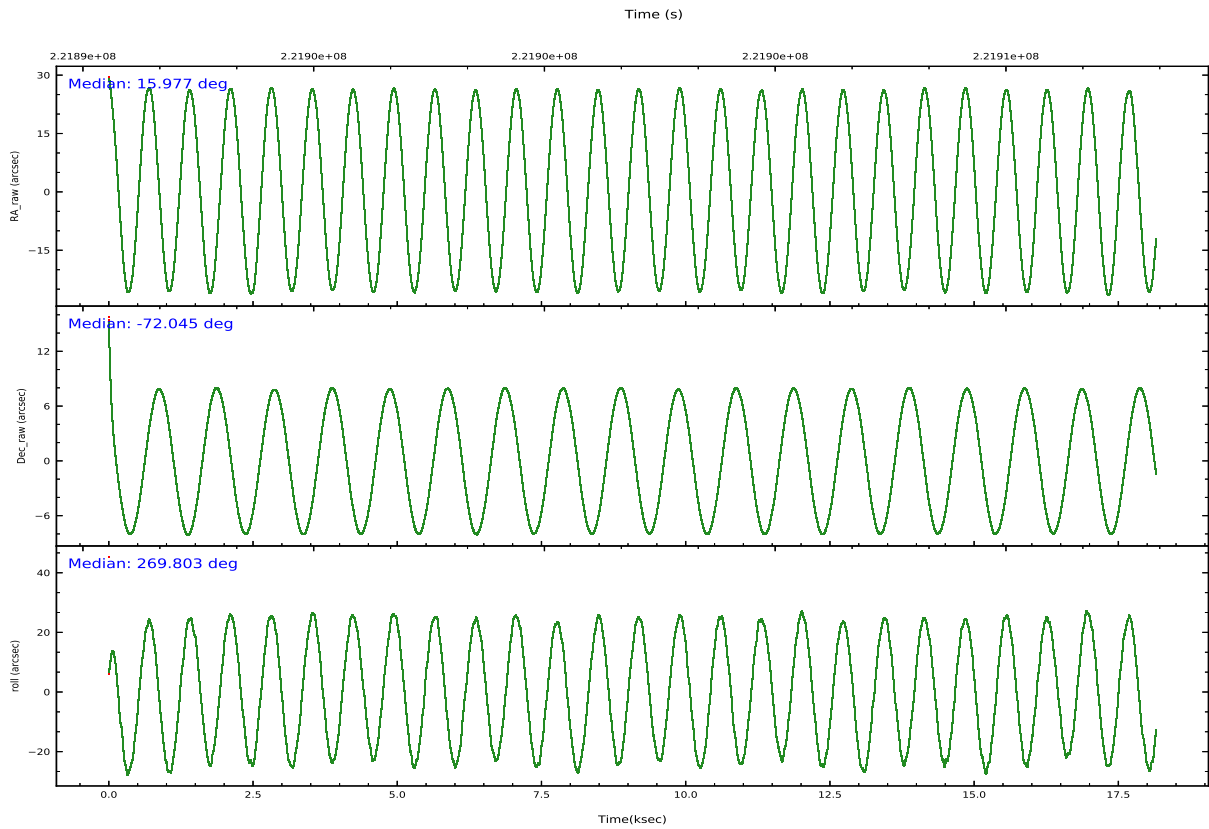
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	100693	95129	111254	167863	110915	100223	grade 0 events	4902	4602	5075	57033	4382	4914
rejected events	89075	83785	99846	99196	99803	51937		4%	4%	4%	33%	3%	4%
rejected %	88%	88%	89%	59%	89%	51%	grade 1 events	53	53	61	721	51	121
								0%	0%	0%	0%	0%	0%
							grade 2 events	2596	2446	2493	6092	2394	10440
								2%	2%	2%	3%	2%	10%
							grade 3 events	1255	1292	1169	2085	1171	4832
								1%	1%	1%	1%	1%	4%
							grade 4 events	1150	1232	1166	2032	1245	4729
								1%	1%	1%	1%	1%	4%
							grade 5 events	3099	3387	2966	3809	3691	10899
								3%	3%	2%	2%	3%	10%
							grade 6 events	1957	2139	1741	2093	2158	24526
								1%	2%	1%	1%	1%	24%
							grade 7 events	85681	79978	96583	93998	95823	39762
								85%	84%	86%	55%	86%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	15.932488	15.967297820411	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.020863	-72.043025613634	Alternating exposures requested	N	N
[deg] Pointing Roll	269.554974	269.80325901966	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	215654464.184000	215654464.184000			
[s] Window stop time (MET)	223516864.184000	223516864.184000			
[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)	221892604.184000	221891346.44307			
Observation start date	2005-01-12T04:49:00	2005-01-12T04:29:06			
[s] Observation end time (MET)	221910604.184000	221910737.39394			
Observation end date	2005-01-12T09:49:00	2005-01-12T09:52:17			
Read mode	TIMED	TIMED			

2.3 Aspect





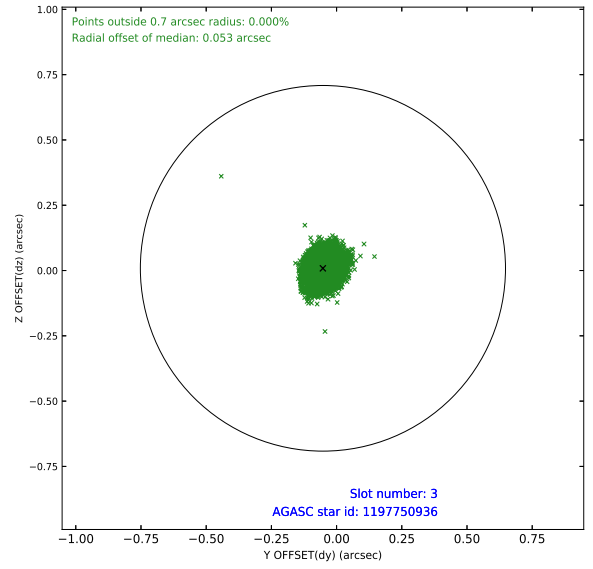
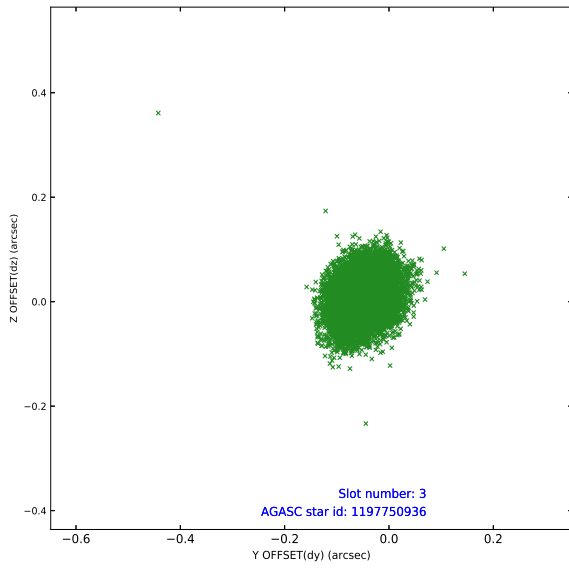
Slot Statistics

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	7.24	4429	1.000	-0.002	-0.047	0.033	0.064	0.000000	0.000000	934.55	-833
1	FID		ACIS-I-4	7.18	4429	1.000	0.127	0.057	0.024	0.043	0.000000	0.000000	2154.82	1066
2	FID		ACIS-I-5	7.22	4429	1.000	-0.224	0.061	0.016	0.026	0.000000	0.000000	-1813.41	1064
3	GUIDE	used	1197750936	7.57	8856	1.000	-0.052	0.009	0.057	0.089	15.387940	-71.549550	-1688.56	-633
4	GUIDE	used	1197884536	8.49	8856	1.000	0.008	0.112	0.062	0.099	17.160729	-71.835289	-664.81	1373
5	GUIDE	used	1197884712	8.30	8854	1.000	0.105	-0.062	0.066	0.101	16.087398	-72.252690	833.77	176
6	GUIDE	used	1197885328	7.23	8857	1.000	-0.033	-0.102	0.063	0.096	16.283090	-71.733943	-1034.75	388
7	GUIDE	used	1197885104	9.38	8850	1.000	-0.020	0.039	0.134	0.199	17.845067	-72.189368	623.97	2110

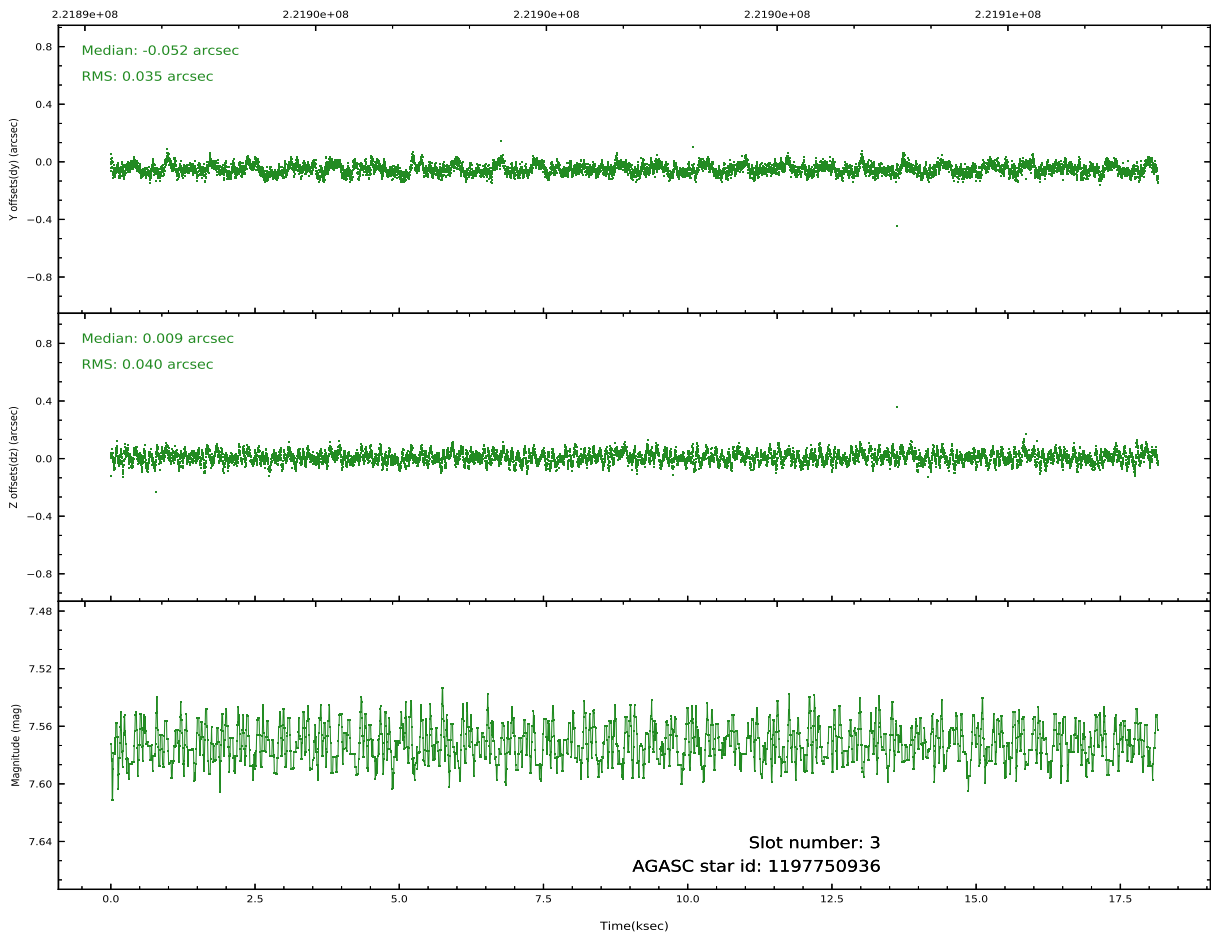
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2.4 Star Slots

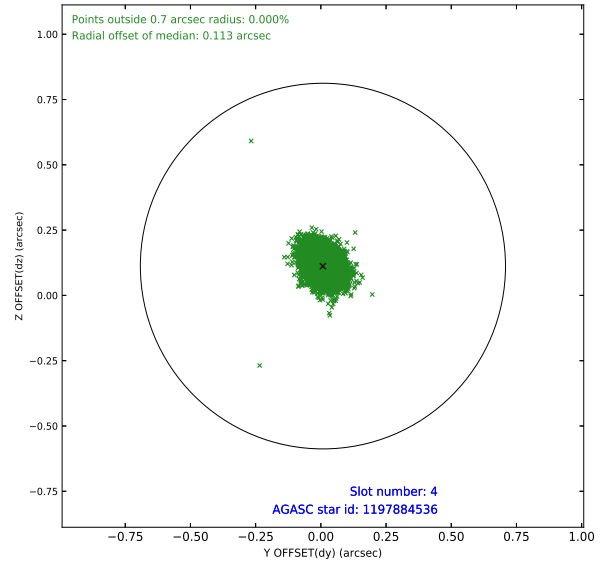
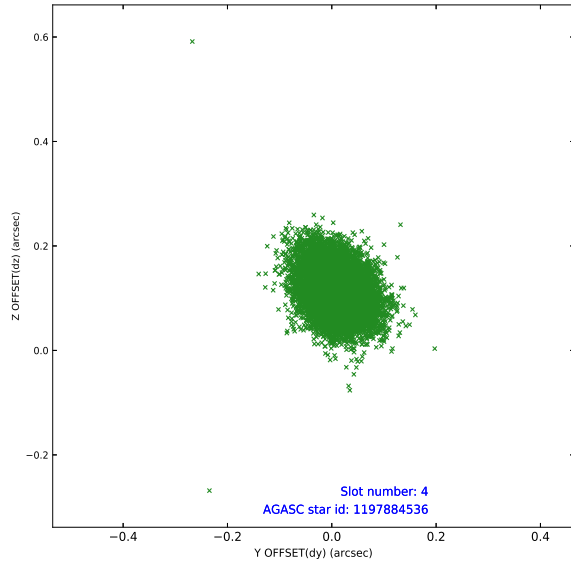
2.4.1 Slot 3



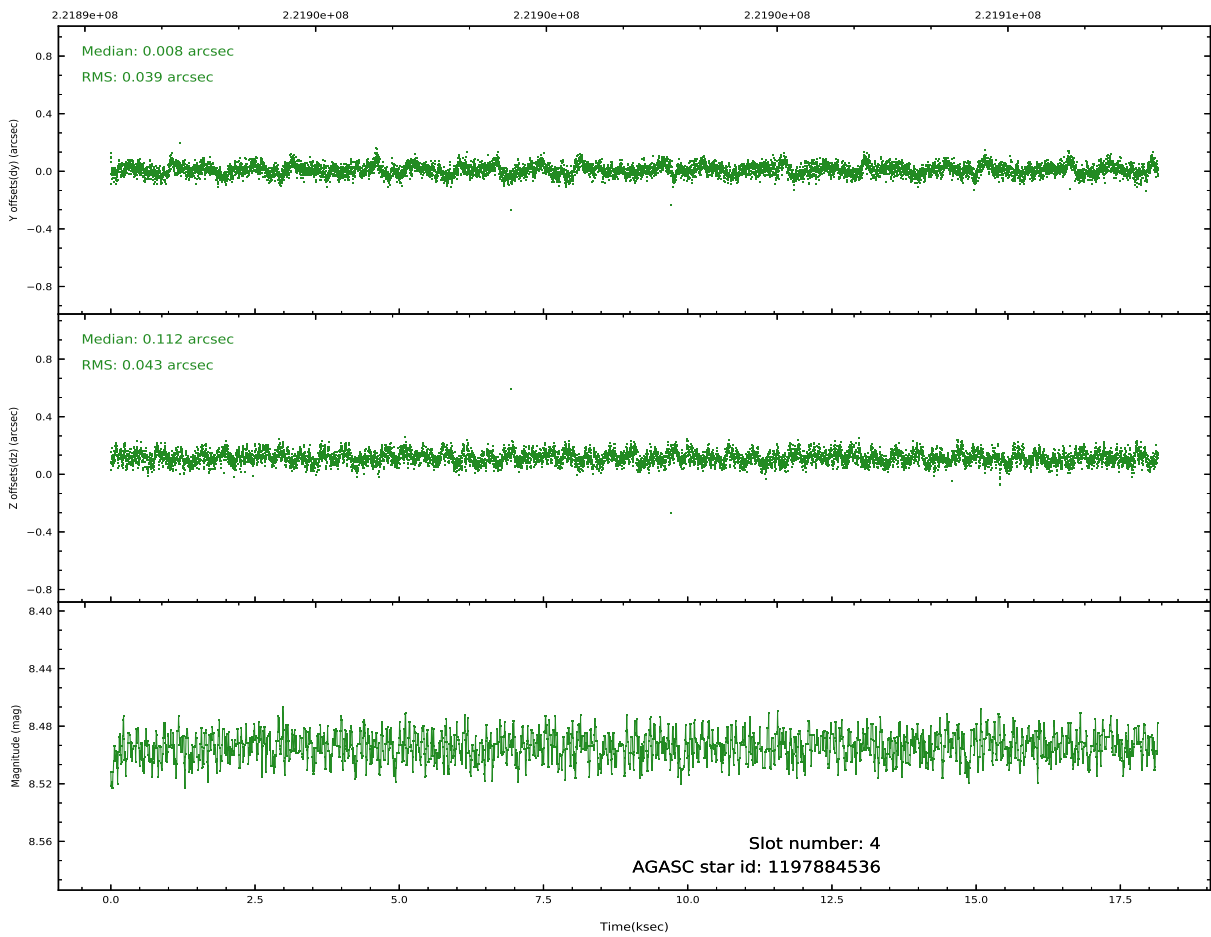
Time (s)



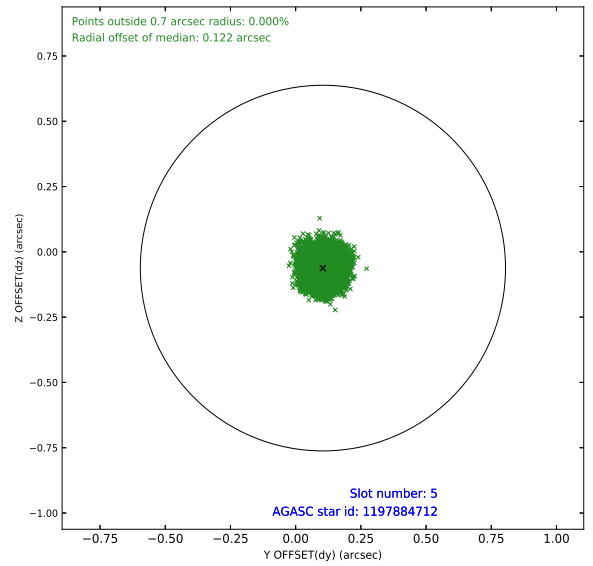
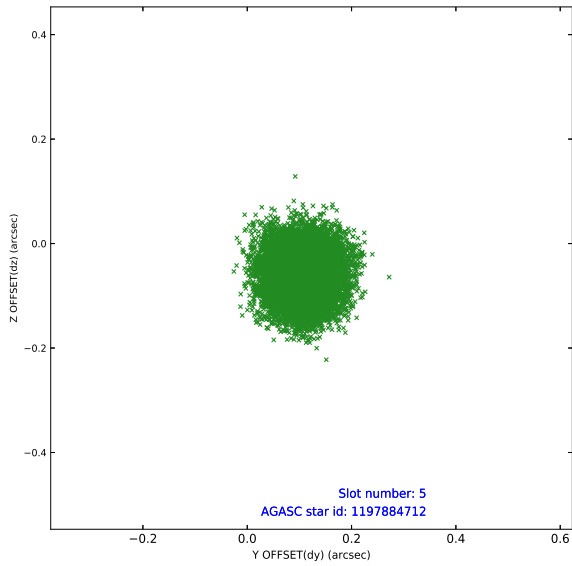
2.4.2 Slot 4



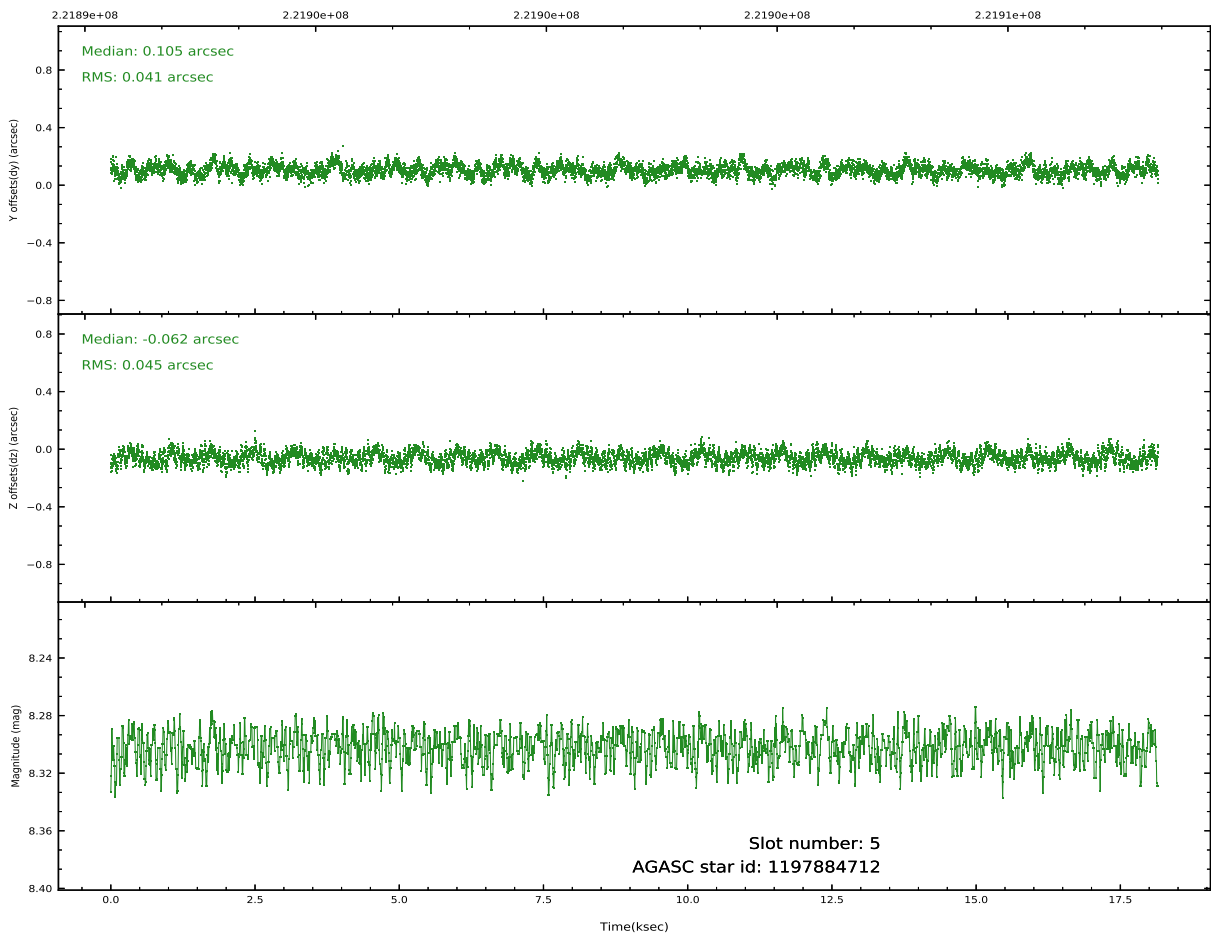
Time (s)



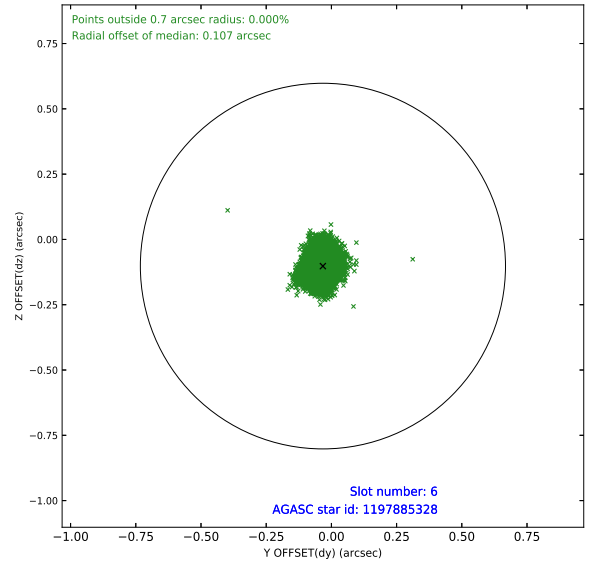
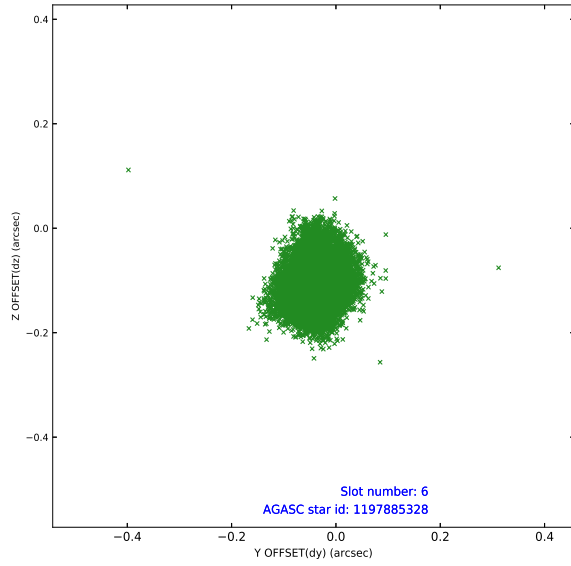
2.4.3 Slot 5



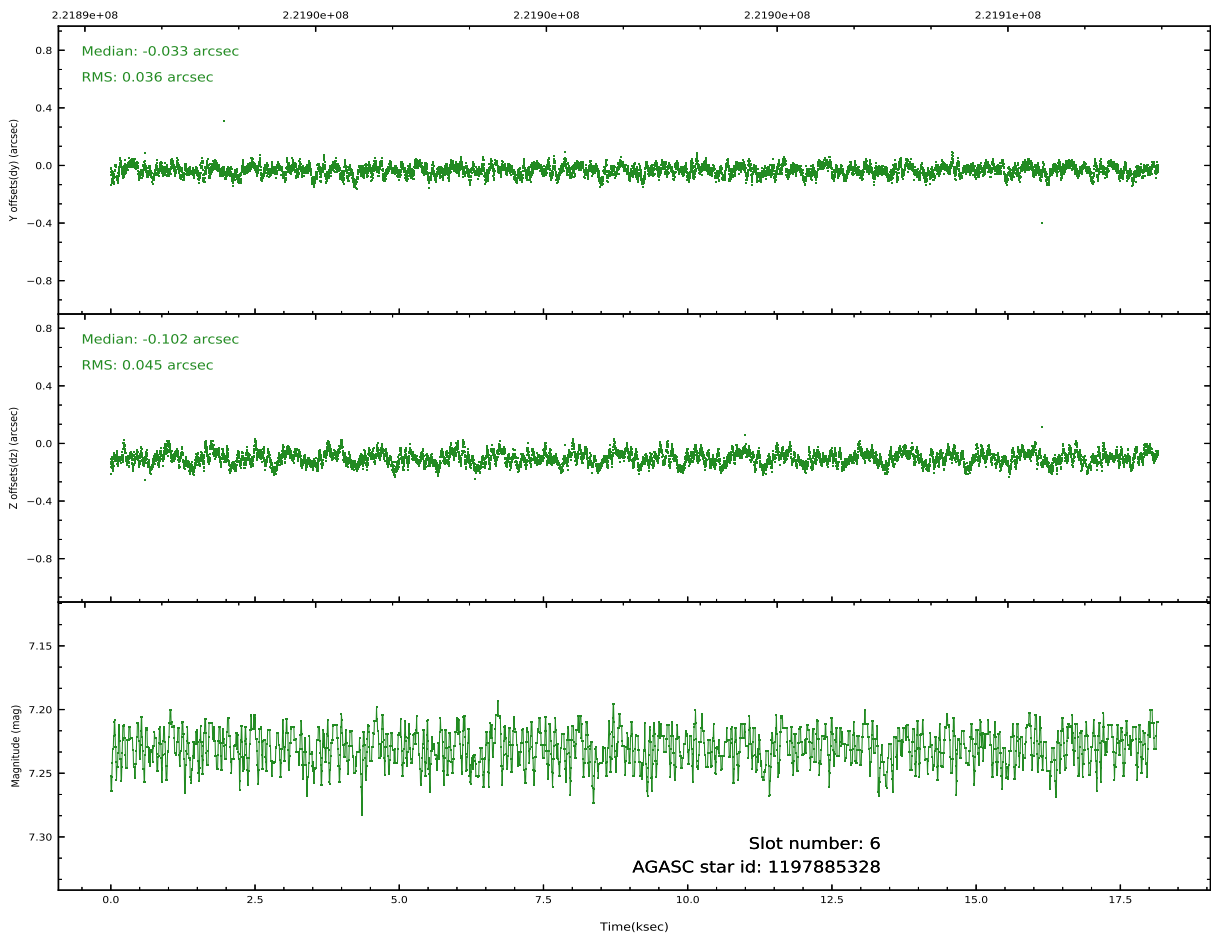
Time (s)



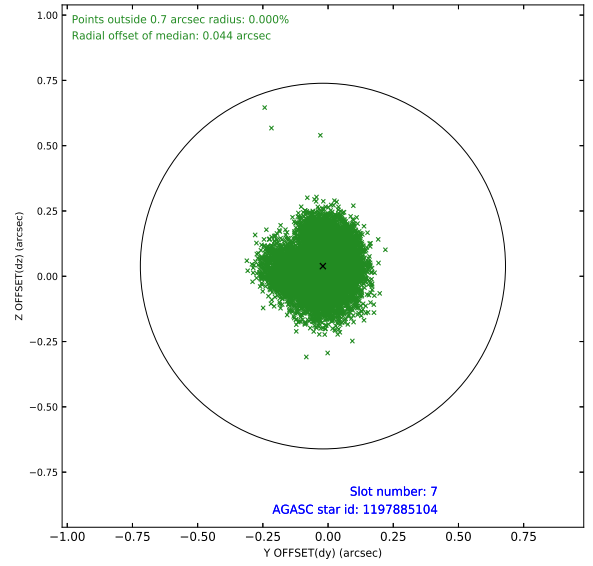
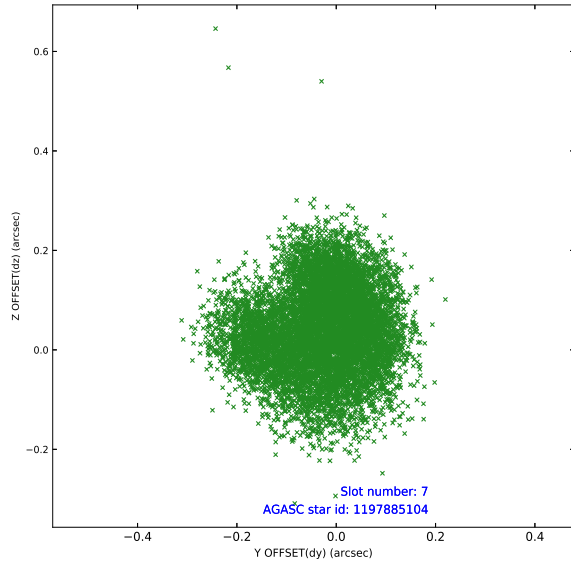
2.4.4 Slot 6



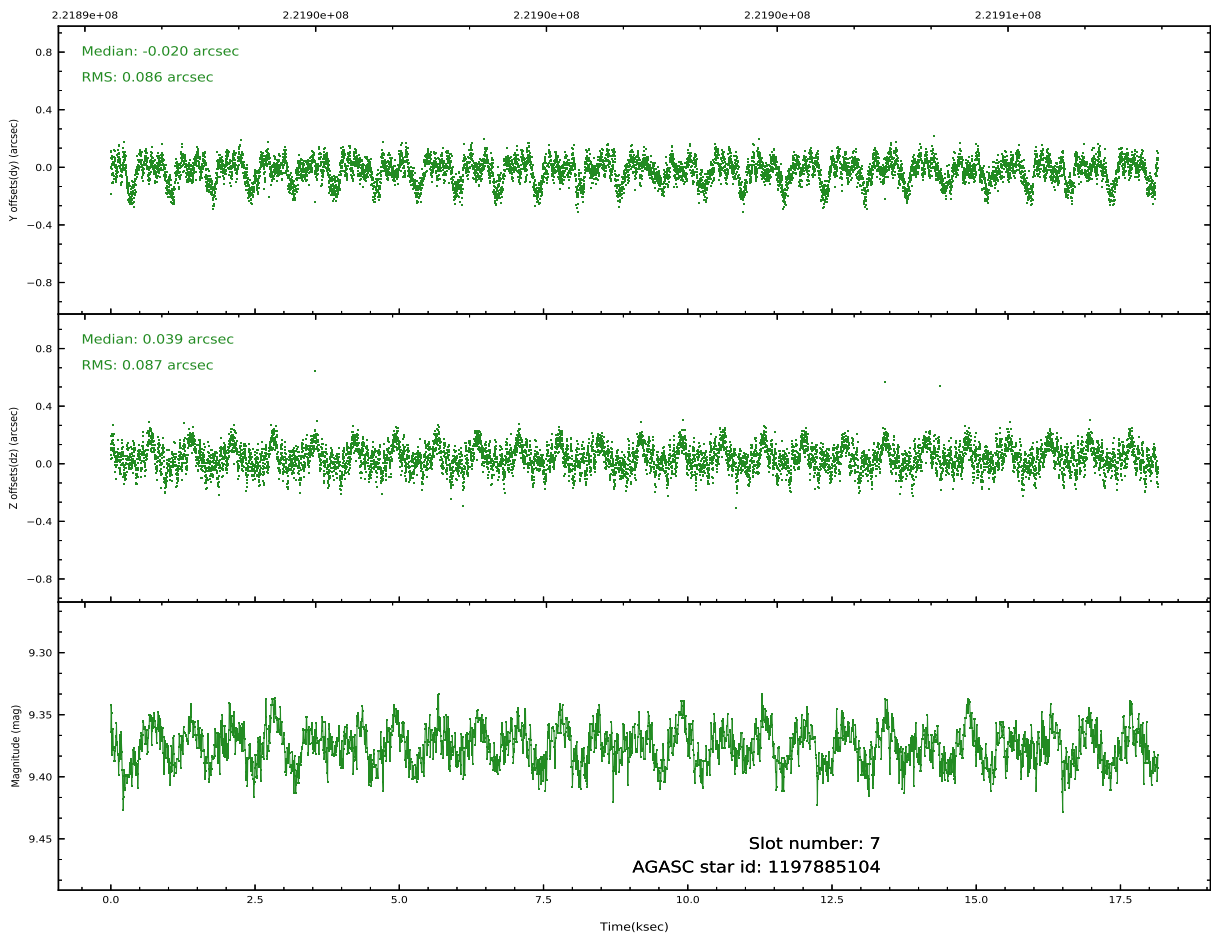
Time (s)



2.4.5 Slot 7

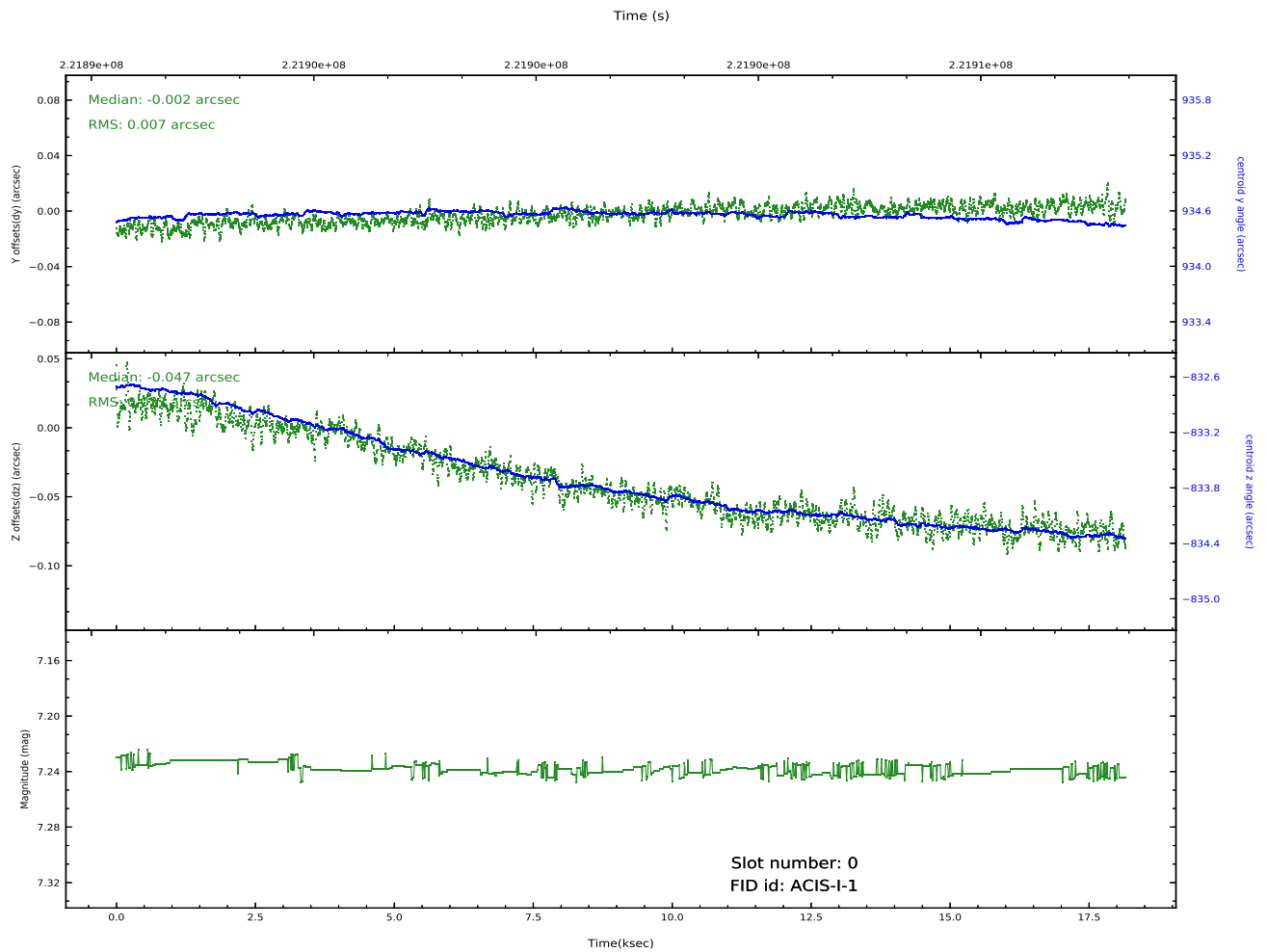
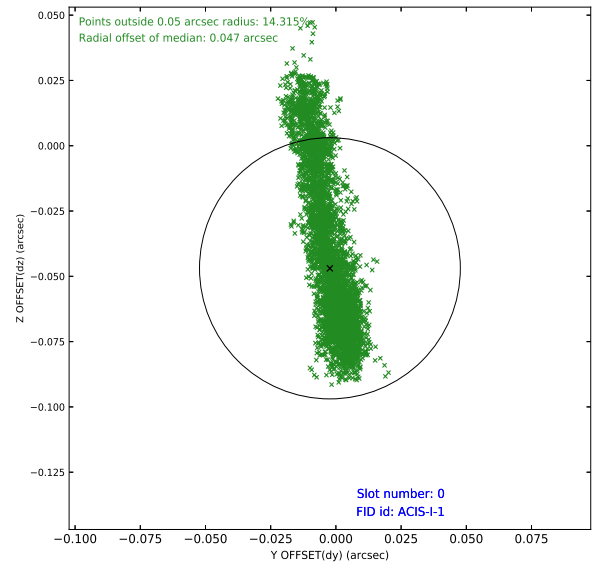
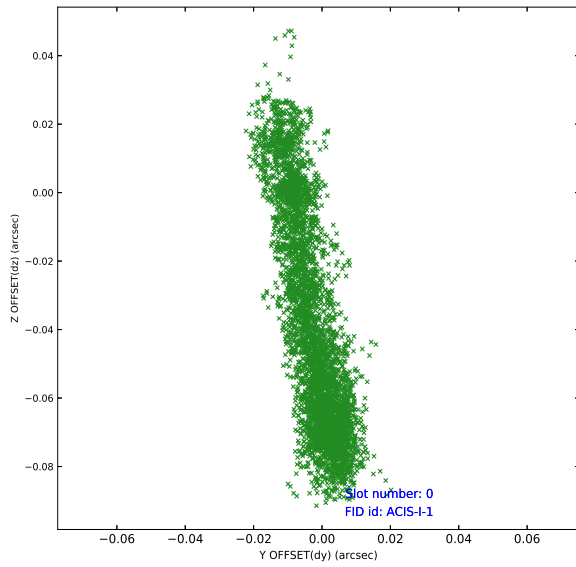


Time (s)

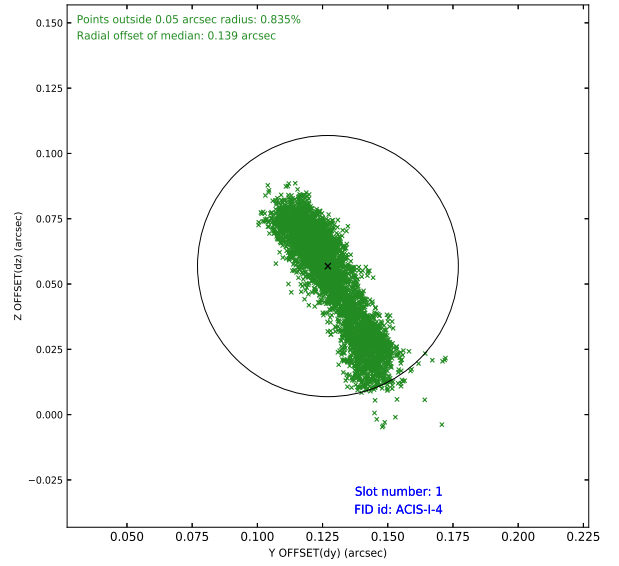
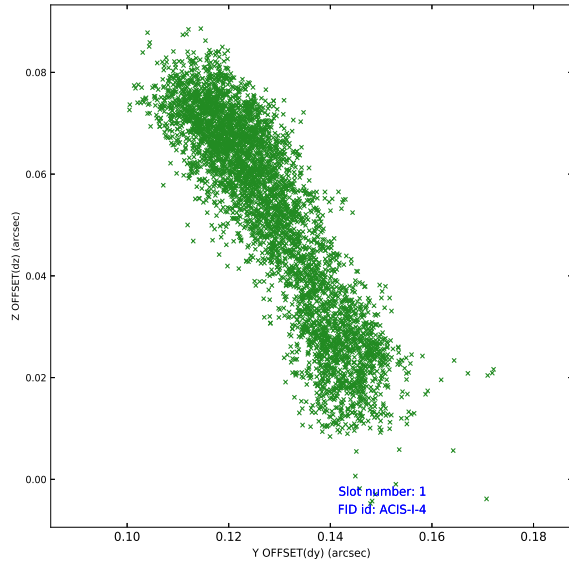


2.5 FID Slots

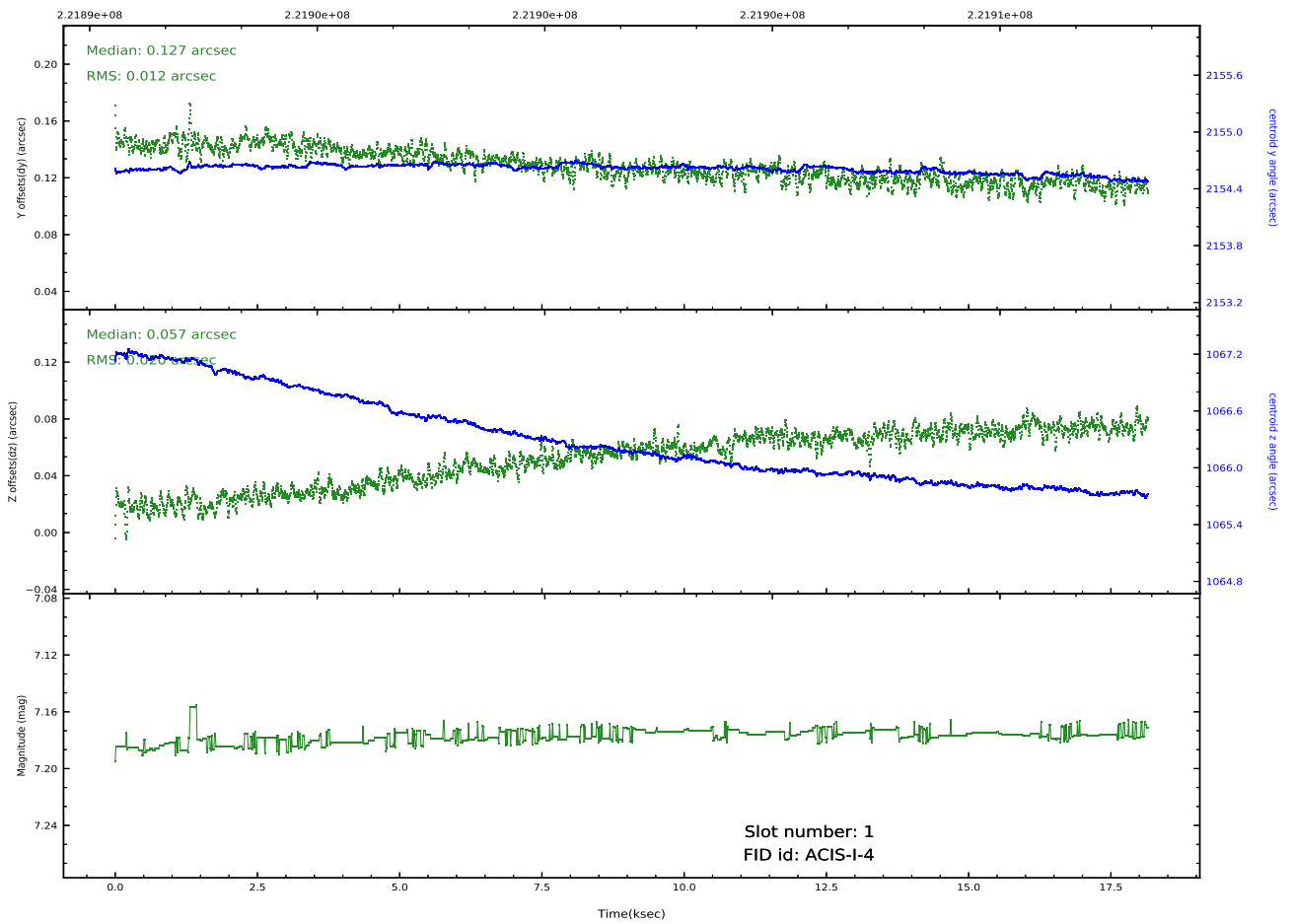
2.5.1 Slot 0



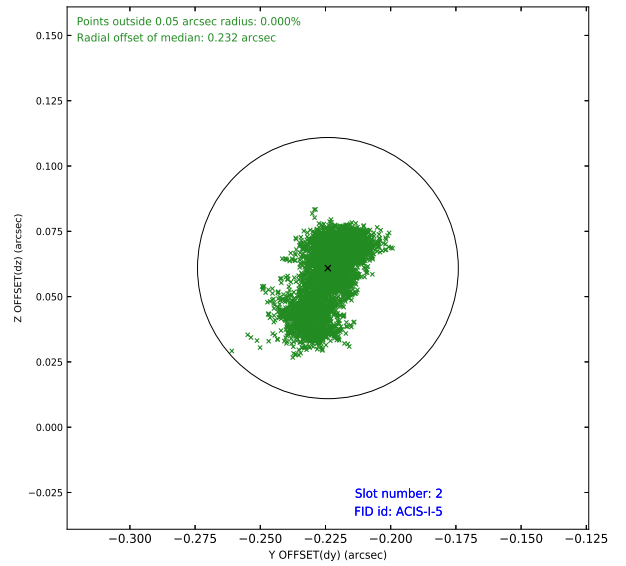
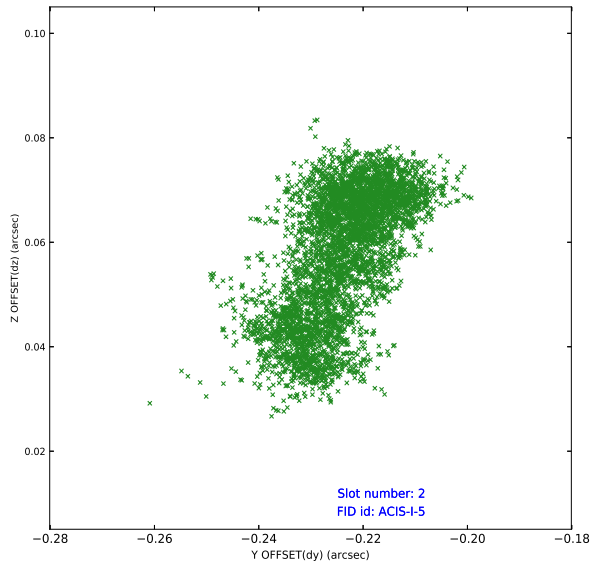
2.5.2 Slot 1



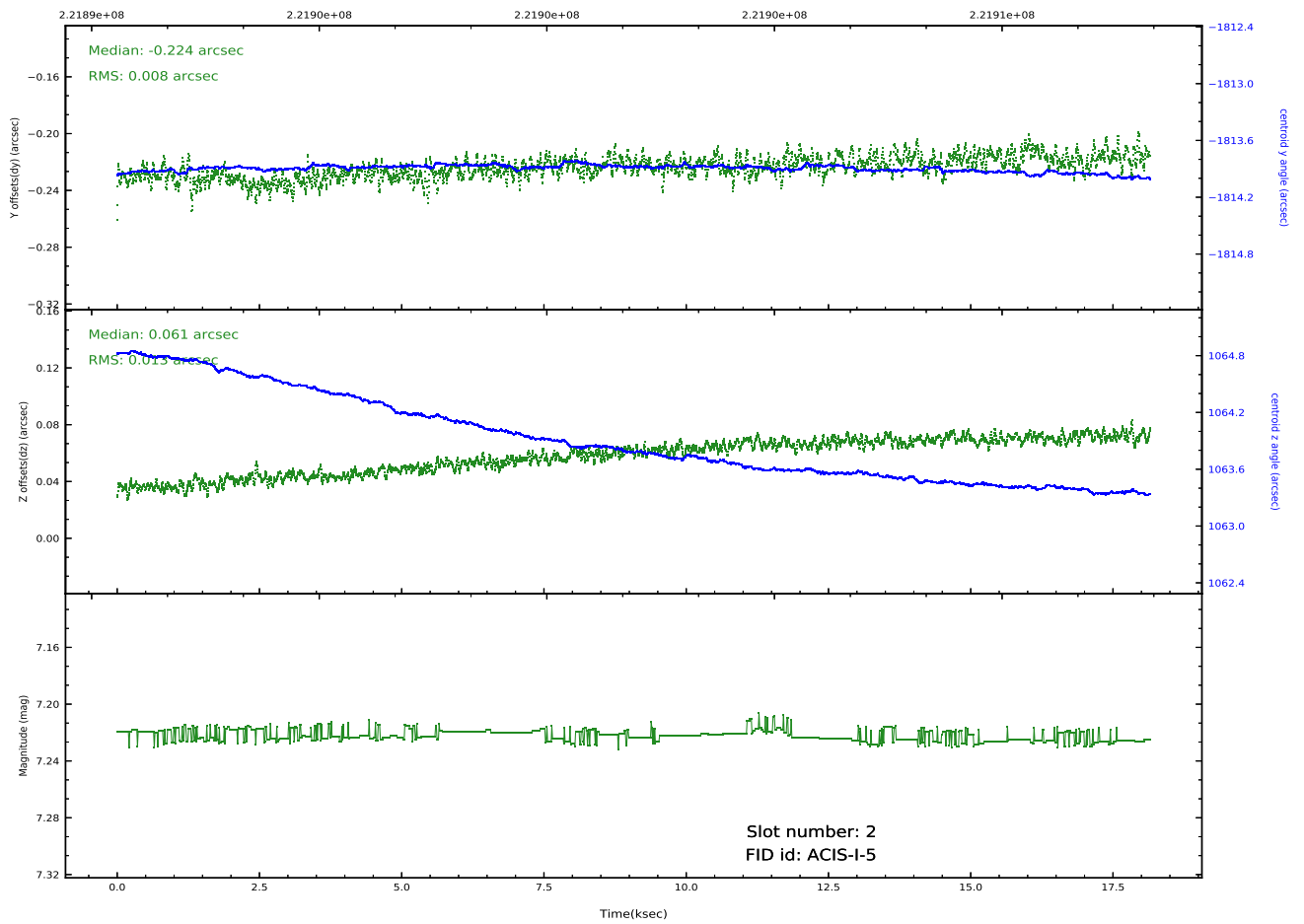
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.15039

A.2 Comments

Window constraint met.