

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6057 - L2 Version 4
Chandra X-Ray Center

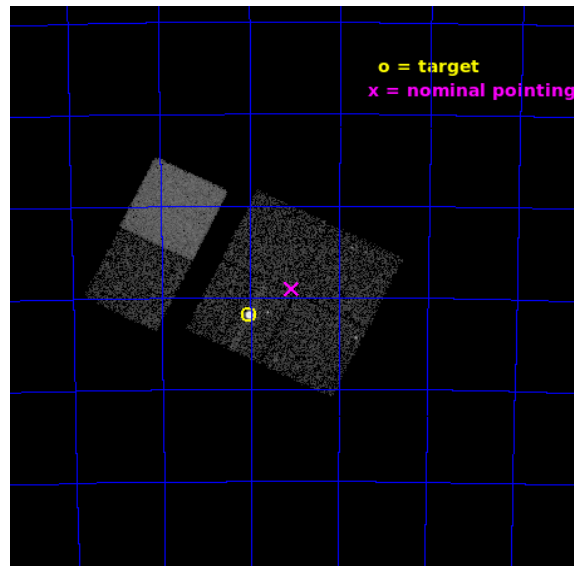
L2 Processing Date : Oct 5 2020

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1 Front

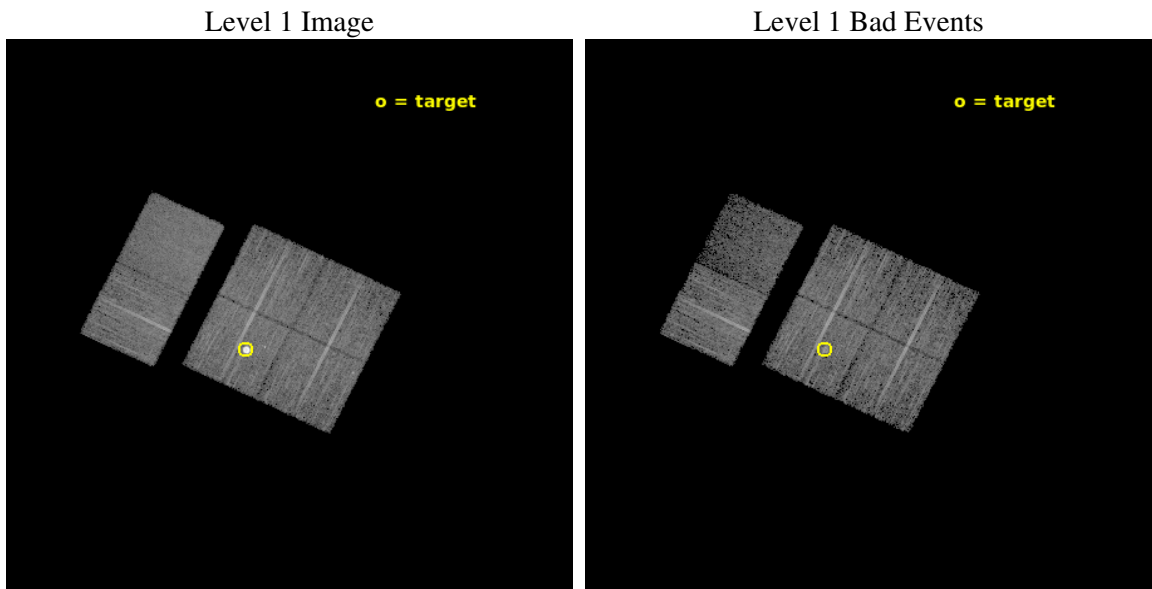
seq_num	590384	Sequence number
obs_id	6057	Observation id
title	AO6A ACIS-I Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.766259715474	Nominal RA [deg]
dec_nom	-71.9842689265	Nominal Dec [deg]
roll_nom	296.08791200977	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7955.1999703646	Sum of GTIs [s]
livetime	7854.4664382935	Livetime [s]
ontime0	7955.1999703646	Sum of GTIs [s]
ontime1	7955.1999703646	Sum of GTIs [s]
ontime2	7955.1999703646	Sum of GTIs [s]
ontime3	7955.1999703646	Sum of GTIs [s]
ontime6	7955.1999703646	Sum of GTIs [s]
ontime7	7955.1999703646	Sum of GTIs [s]
l2events	67586	Number of level 2 events



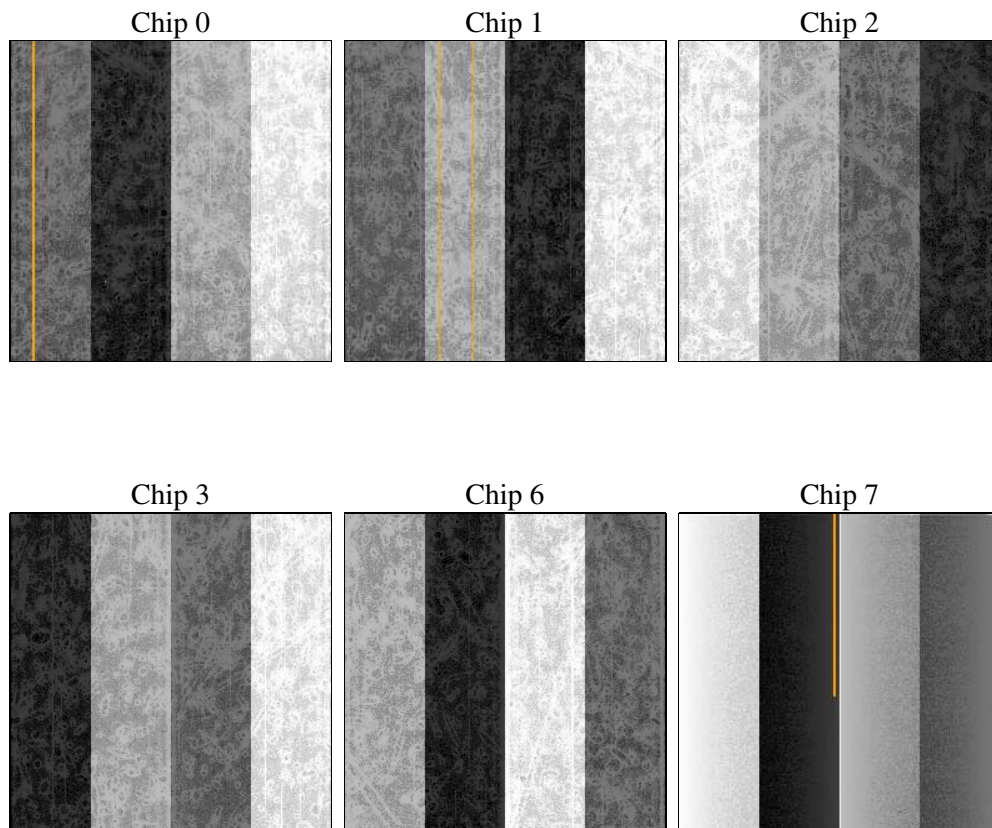
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	7955.1999703646	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	7955.1999703646	Sum of GTIs [s]
date	2020-10-05T17:59:15	Date and time of file creation	ontime1	7955.1999703646	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	7955.1999703646	Sum of GTIs [s]
			ontime3	7955.1999703646	Sum of GTIs [s]
			ontime6	7955.1999703646	Sum of GTIs [s]
			ontime7	7955.1999703646	Sum of GTIs [s]
			l1events	310716	Number of level 1 events

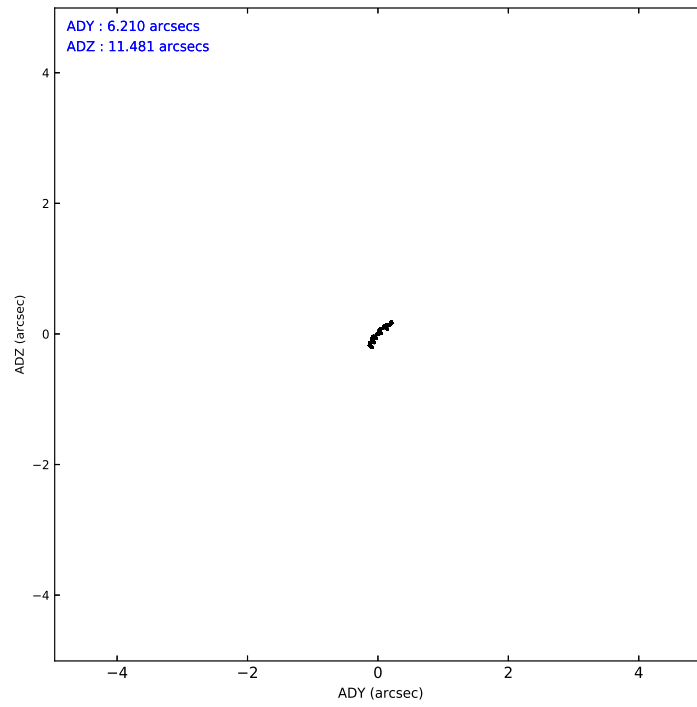
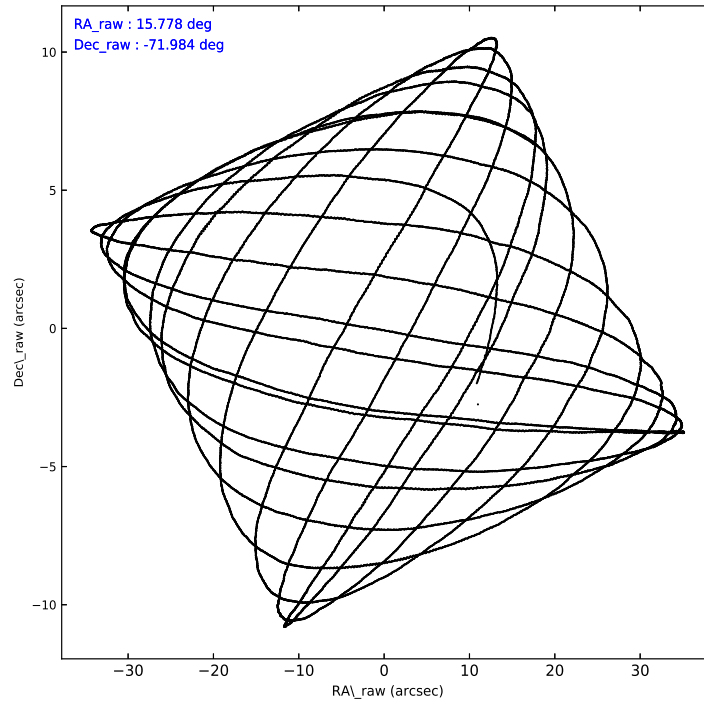
2.1.4 Events

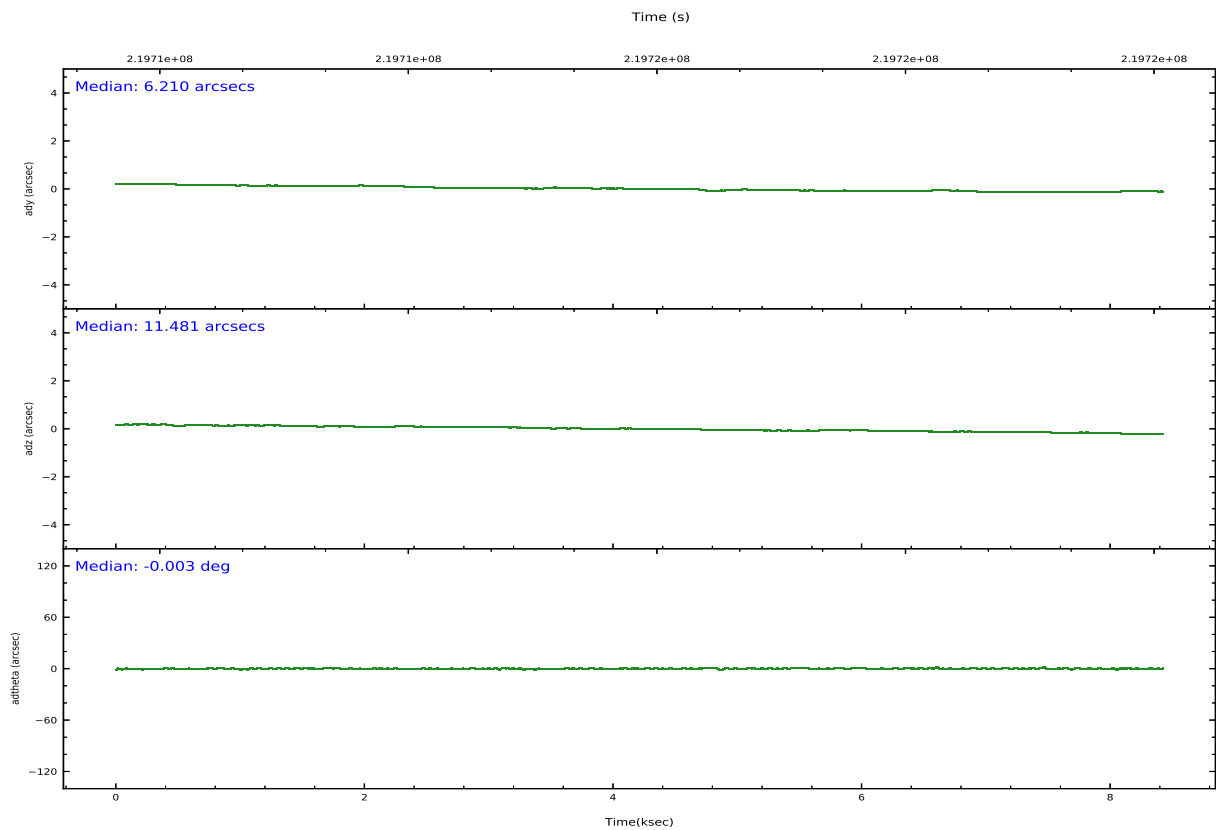
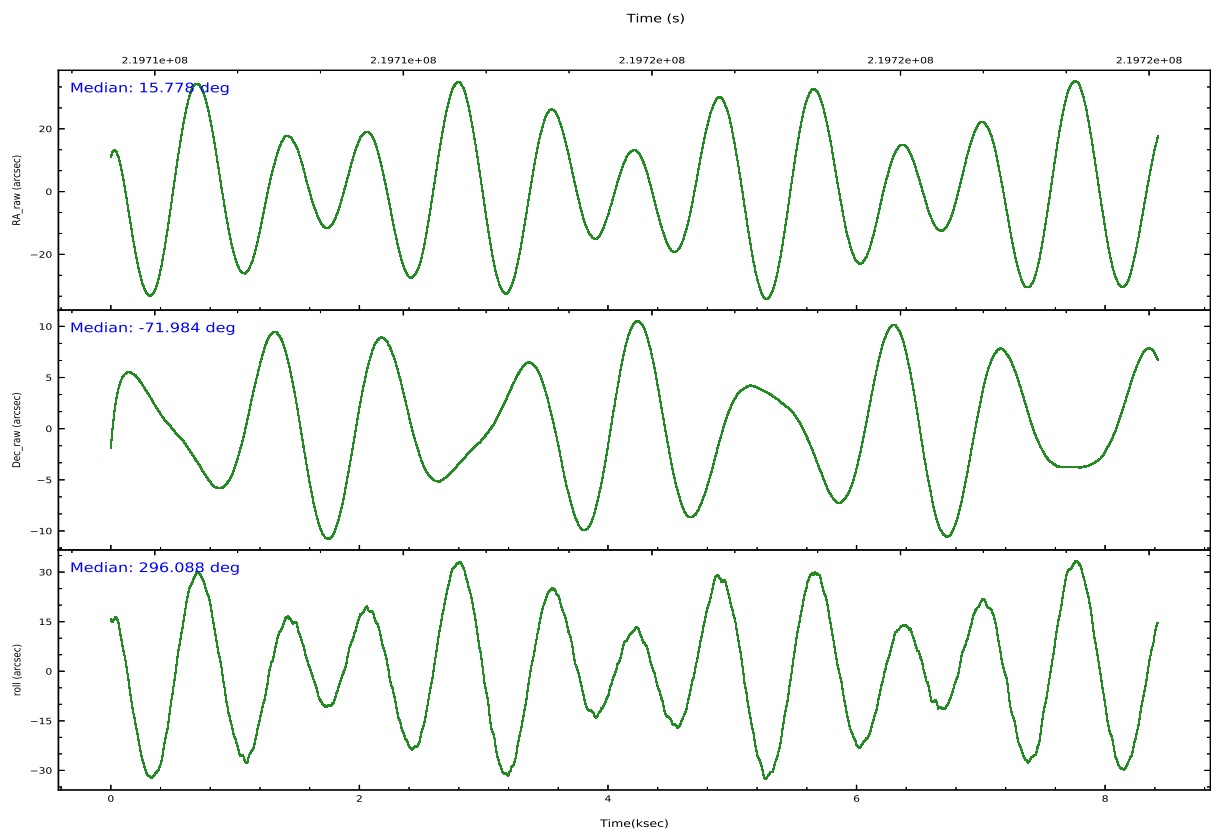
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	45214	43688	76159	48195	50252	47208	grade 0 events	2079	1802	23743	1651	1843	2487
rejected events	39995	38709	46736	43744	45356	23264		4%	4%	31%	3%	3%	5%
rejected %	88%	88%	61%	90%	90%	49%	grade 1 events	24	32	239	21	32	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	1168	1045	2821	950	1070	5038
								2%	2%	3%	1%	2%	10%
							grade 3 events	593	589	947	496	547	2311
								1%	1%	1%	1%	1%	4%
							grade 4 events	529	631	961	511	517	2197
								1%	1%	1%	1%	1%	4%
							grade 5 events	1436	1533	1428	1549	1630	4956
								3%	3%	1%	3%	3%	10%
							grade 6 events	854	915	962	845	921	11924
								1%	2%	1%	1%	1%	25%
							grade 7 events	38531	37141	45058	42172	43692	18250
								85%	85%	59%	87%	86%	38%

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	15.704817	15.766259715474	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.969309	-71.98426892649999	Alternating exposures requested	N	N
[deg] Pointing Roll	295.815250	296.08791200977	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	215654464.184000	215654464.184000			
[s] Window stop time (MET)	220838464.184000	220838464.184000			
[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)	219712073.184000	219710986.84482			
Observation start date	2004-12-17T23:06:49	2004-12-17T22:49:46			
[s] Observation end time (MET)	219720073.184000	219720222.60774			
Observation end date	2004-12-18T01:20:09	2004-12-18T01:23:42			
Read mode	TIMED	TIMED			

2.3 Aspect



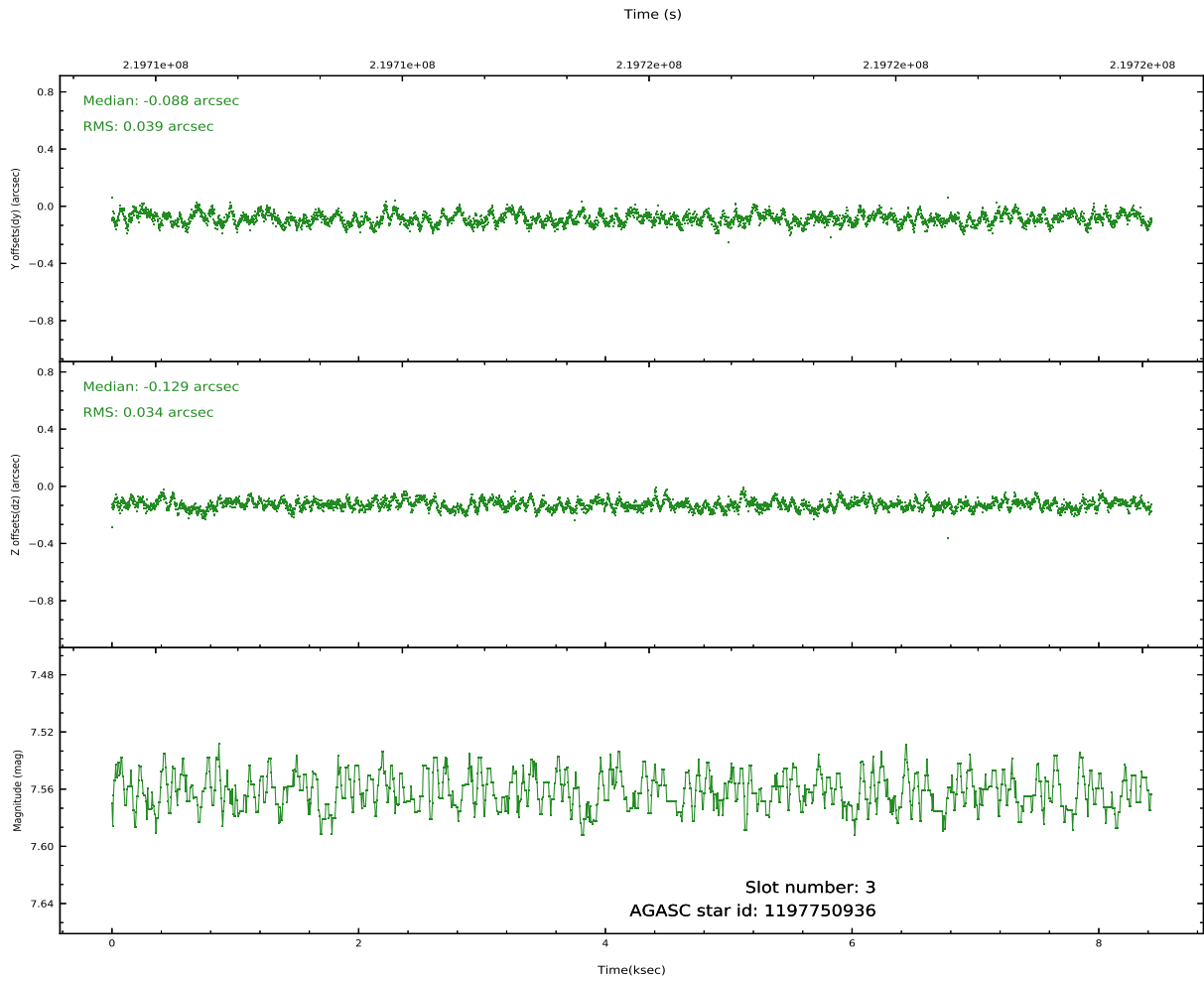
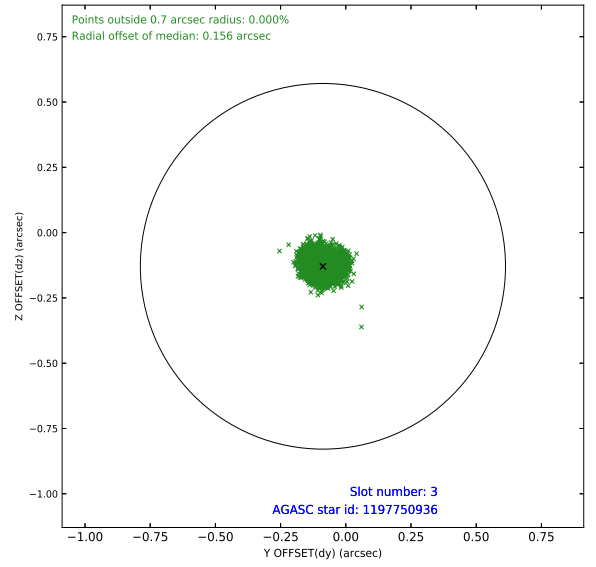
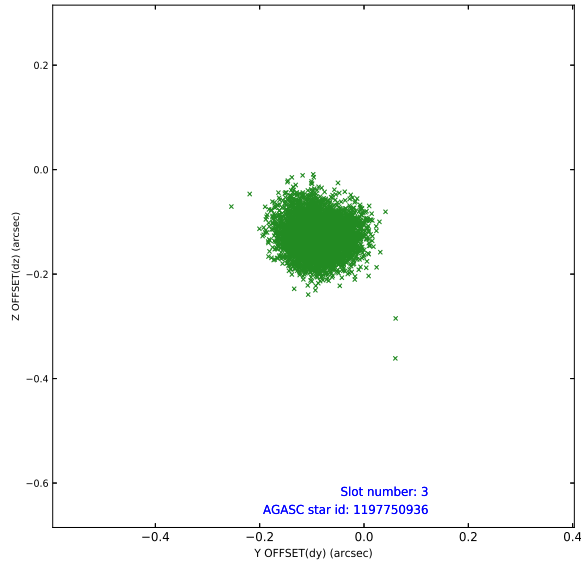


Slot Statistics

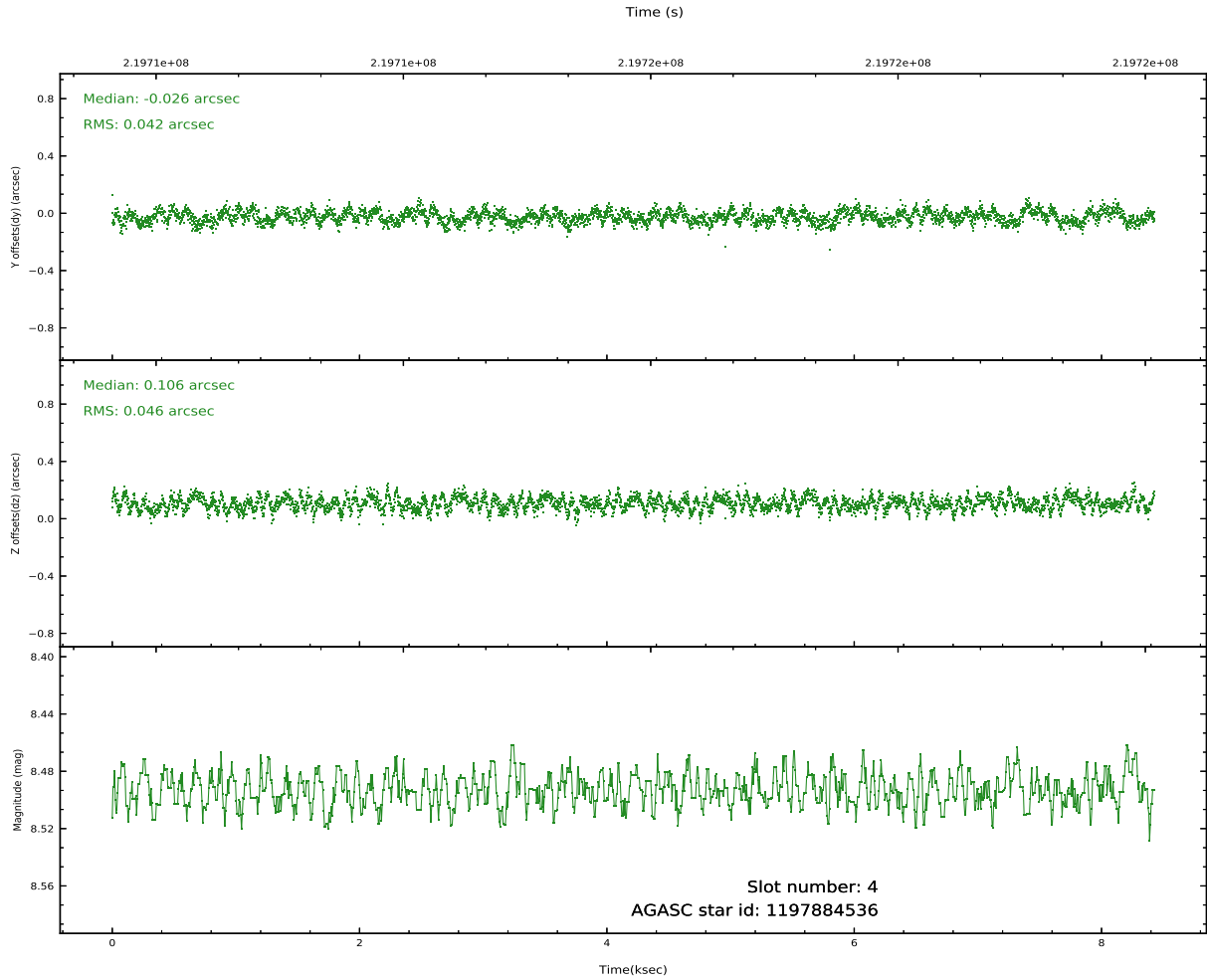
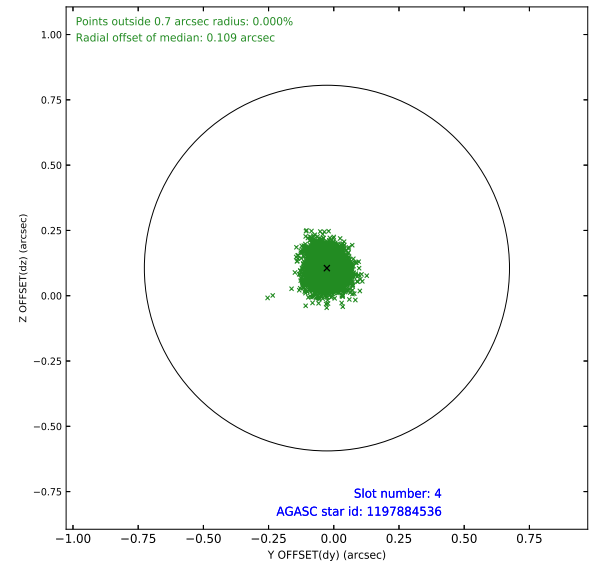
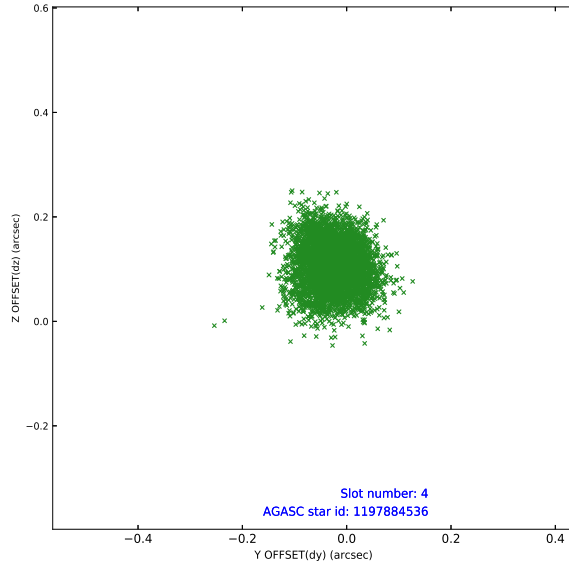
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2055	1.000	-0.011	-0.105	0.008	0.014	0.000000	0.000000	933.48	-835
1	FID		ACIS-I-4	7.18	2056	1.000	0.107	0.102	0.009	0.014	0.000000	0.000000	2153.99	1064
2	FID		ACIS-I-5	7.22	2056	1.000	-0.195	0.074	0.007	0.012	0.000000	0.000000	-1813.88	1063
3	GUIDE	used	1197750936	7.56	4111	1.000	-0.088	-0.129	0.056	0.087	15.387940	-71.549550	-1516.19	332
4	GUIDE	used	1197884536	8.49	4112	1.000	-0.026	0.106	0.067	0.104	17.160729	-71.835289	294.65	1672
5	GUIDE	used	1197885104	9.35	4112	1.000	0.155	0.063	0.088	0.144	17.845067	-72.189368	1777.53	1758
6	GUIDE	used	1197885328	7.24	4112	1.000	0.006	-0.014	0.057	0.087	16.283090	-71.733943	-475.07	955
7	GUIDE	used	1198189696	7.37	4111	1.000	-0.045	-0.025	0.055	0.088	15.223750	-72.697522	2138.12	-1605

2.4 Star Slots

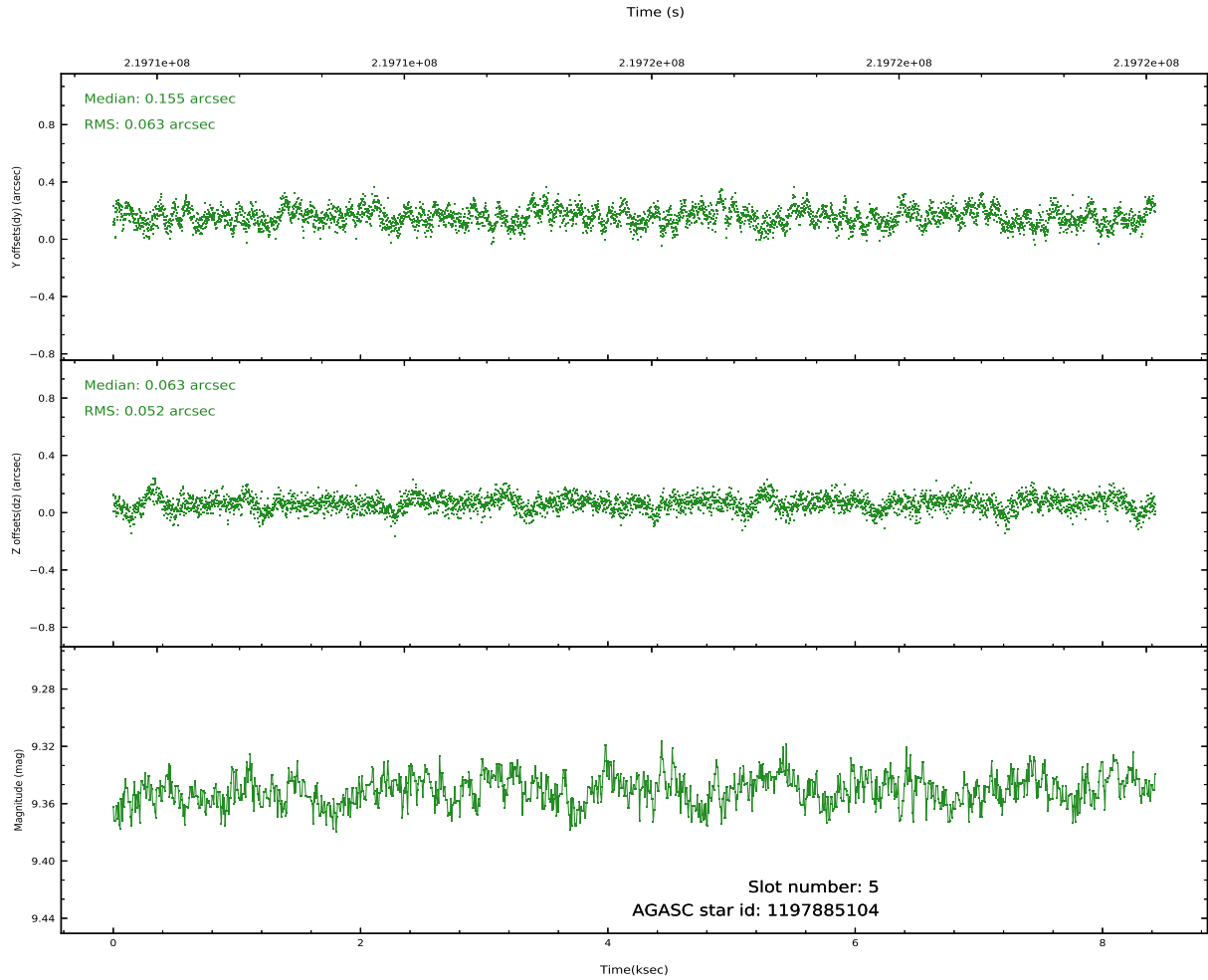
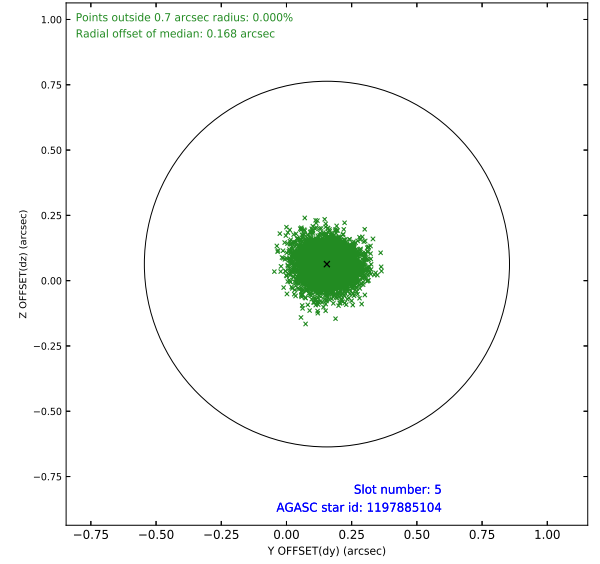
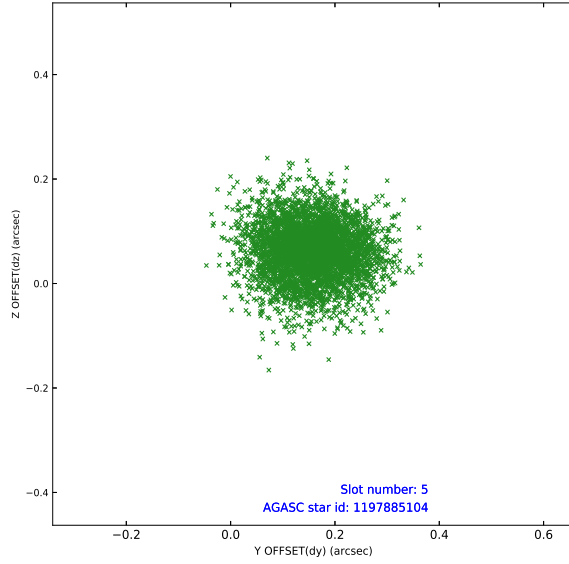
2.4.1 Slot 3



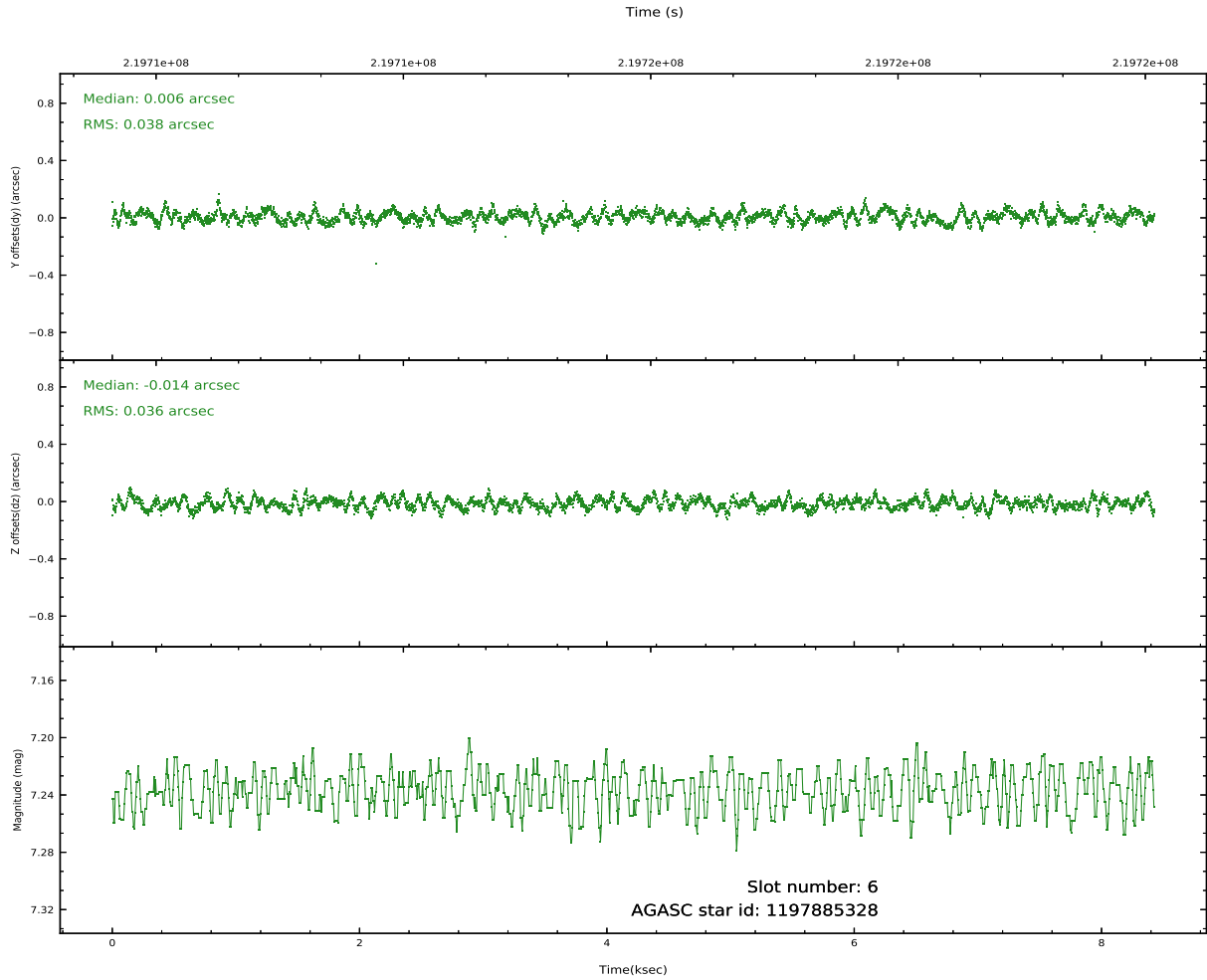
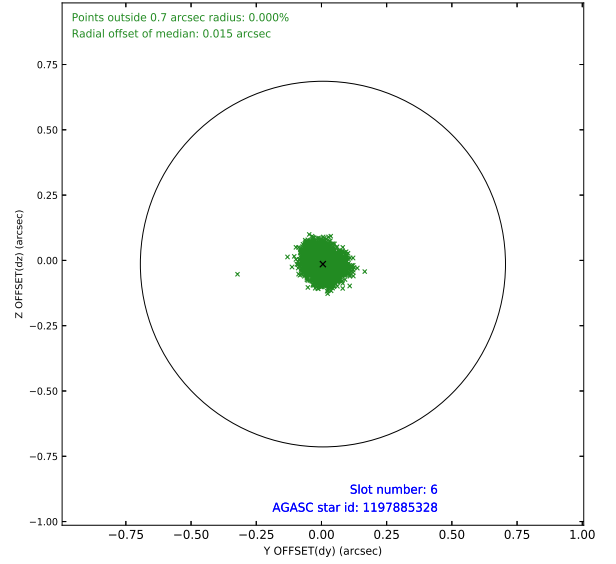
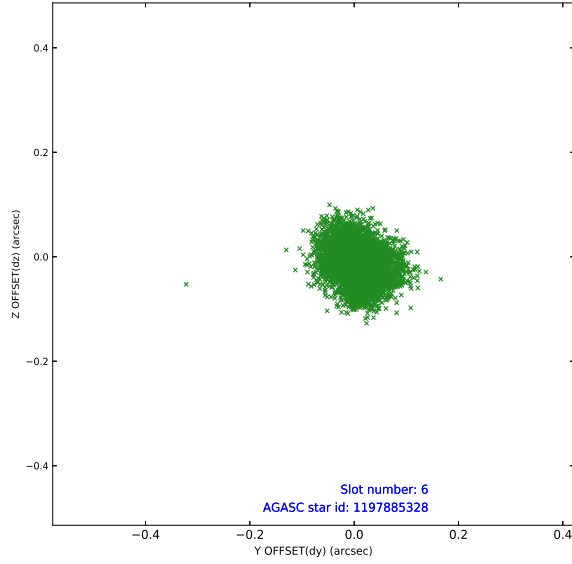
2.4.2 Slot 4



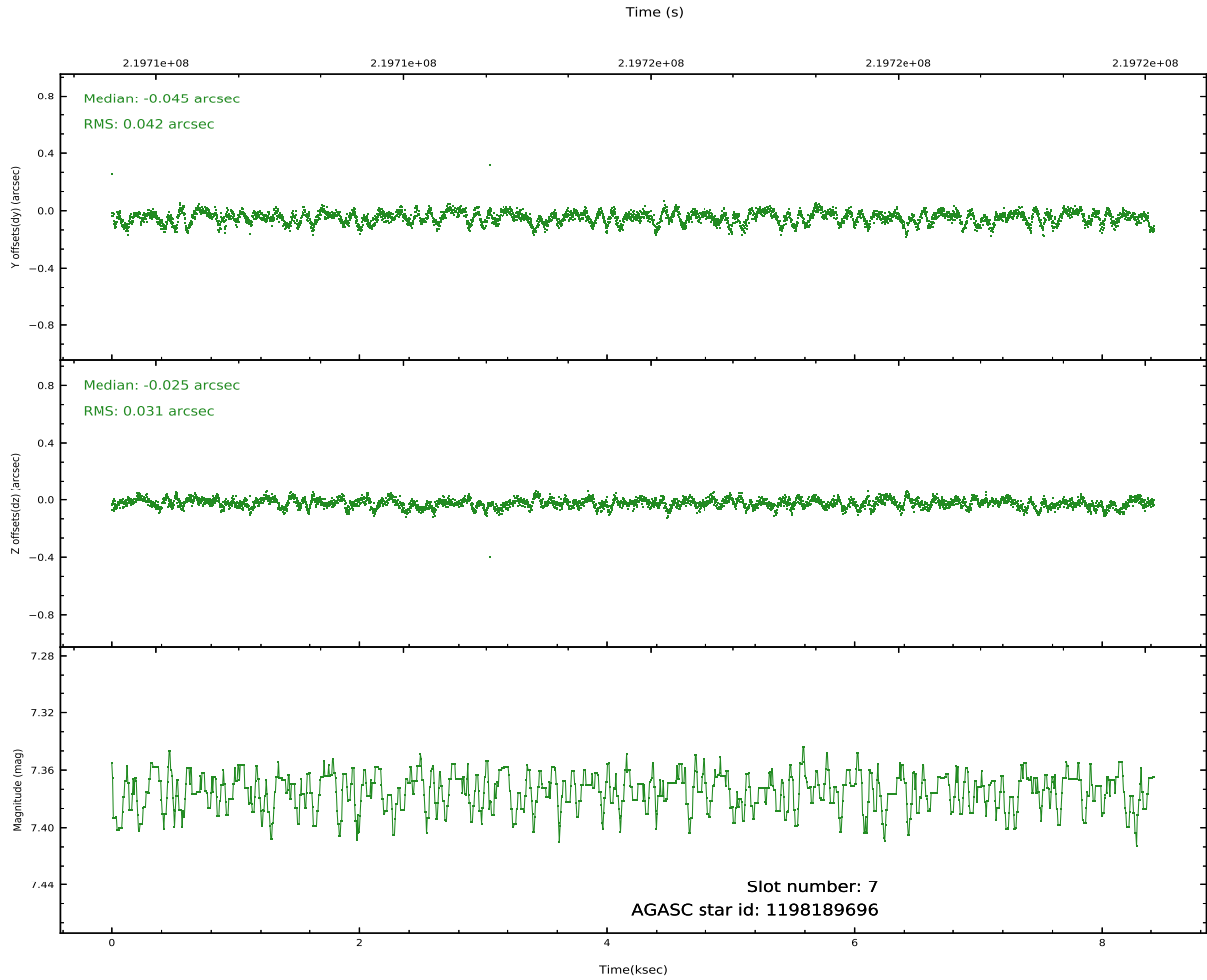
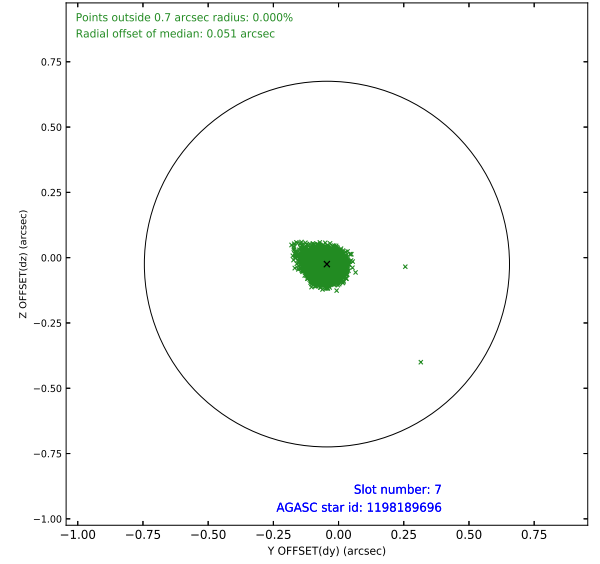
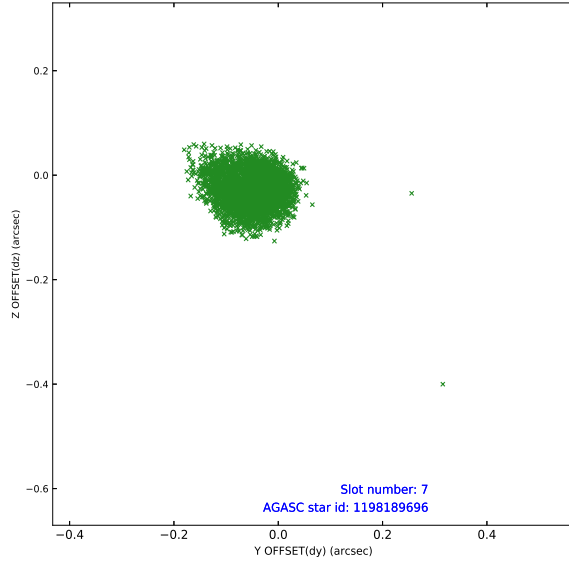
2.4.3 Slot 5



2.4.4 Slot 6

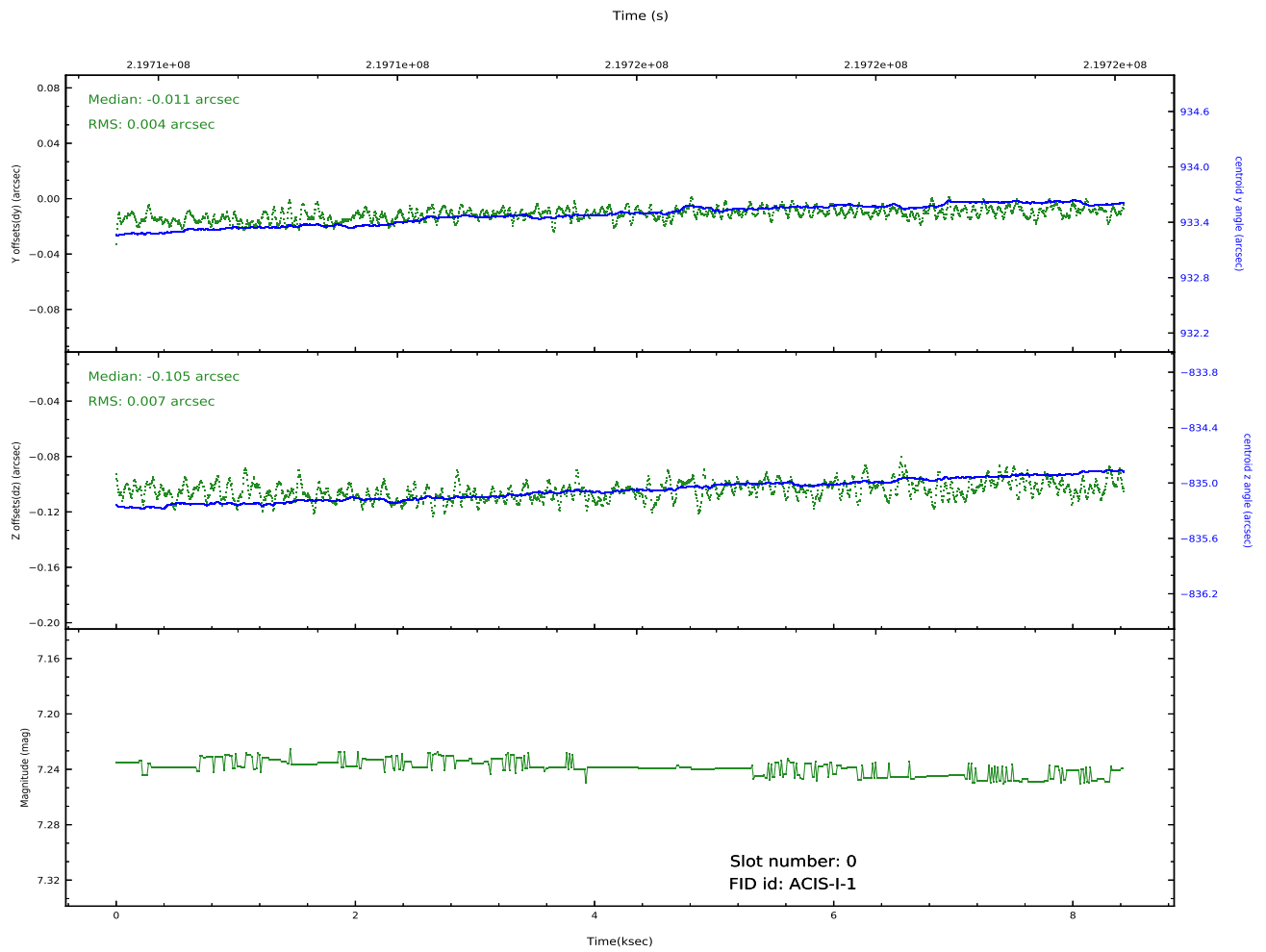
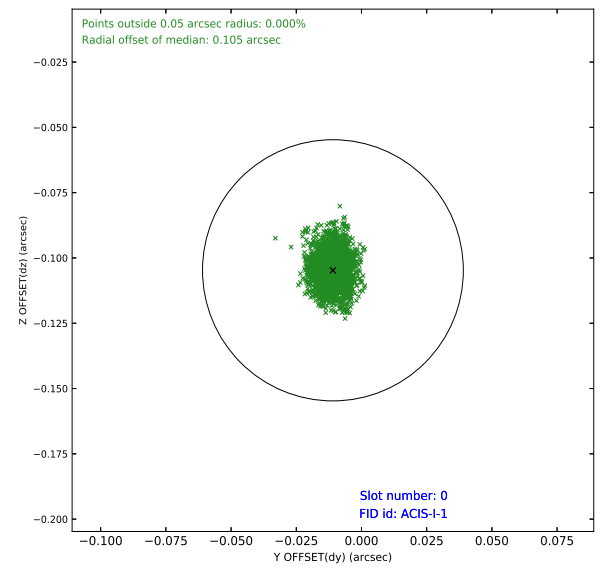
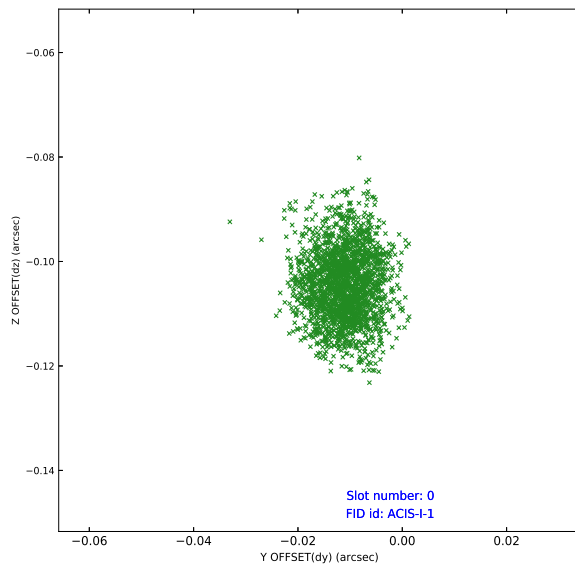


2.4.5 Slot 7

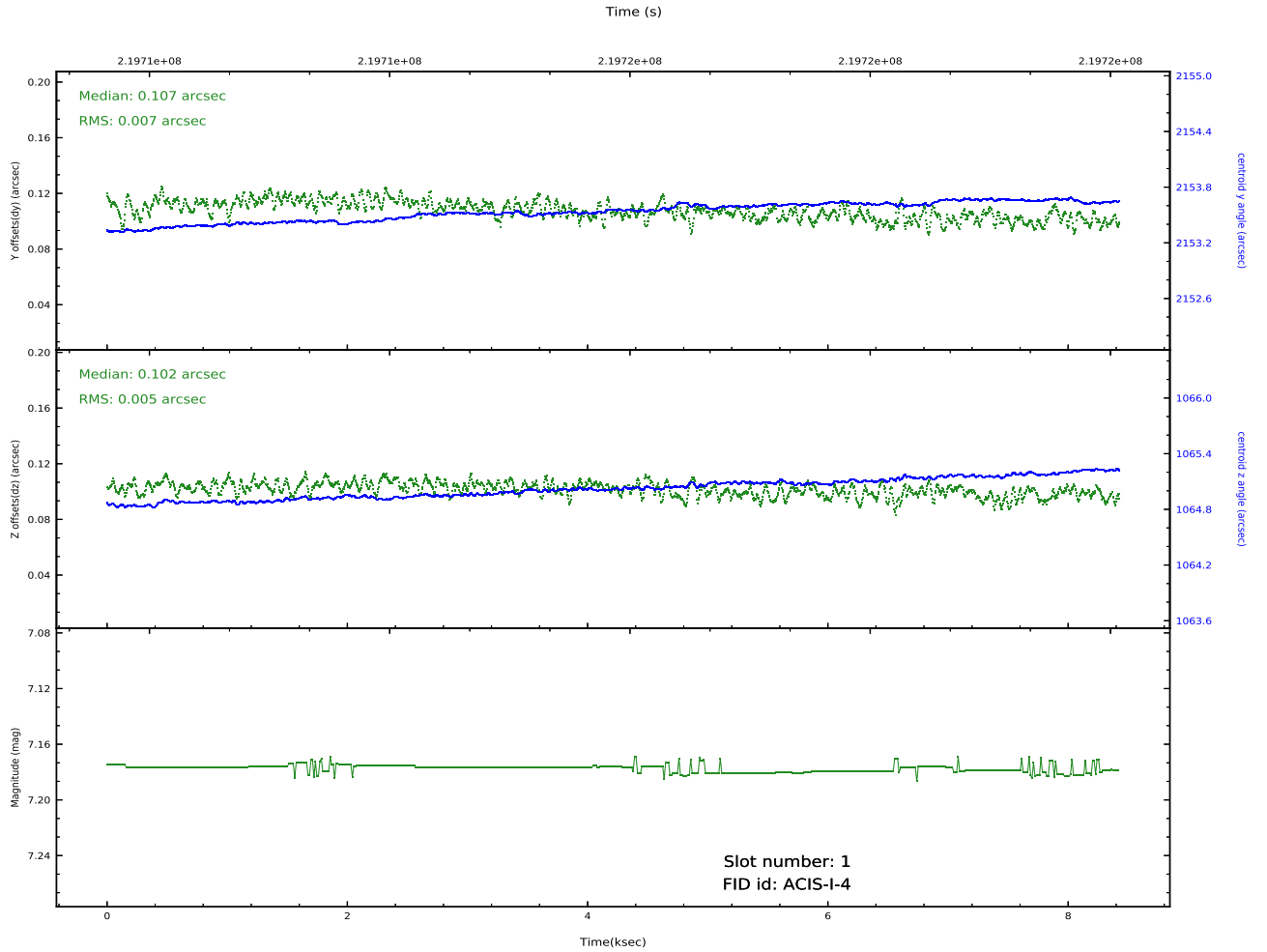
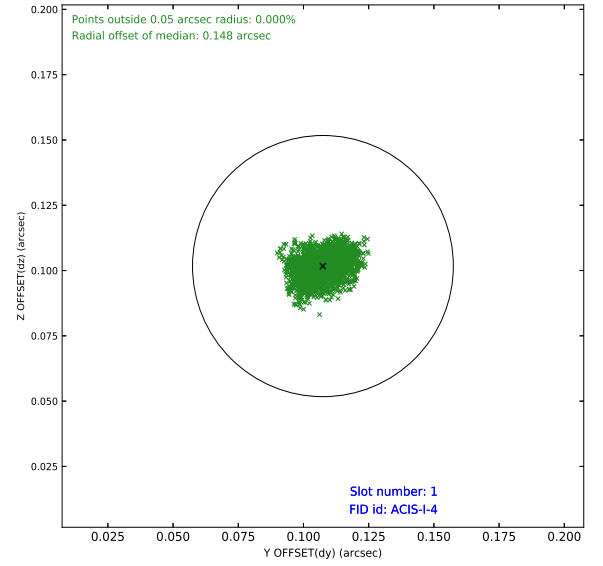
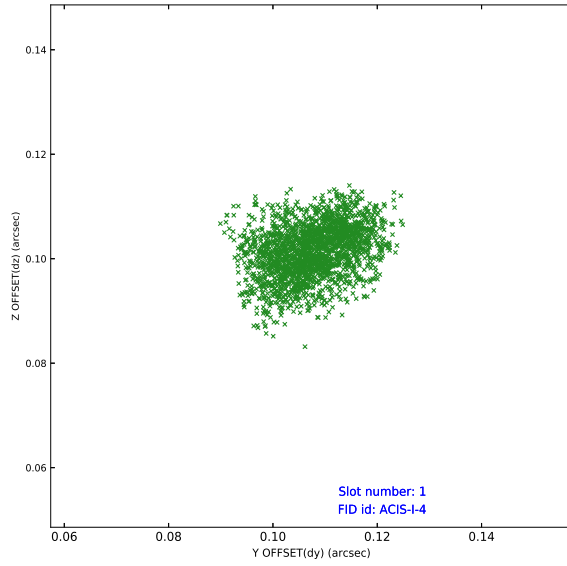


2.5 FID Slots

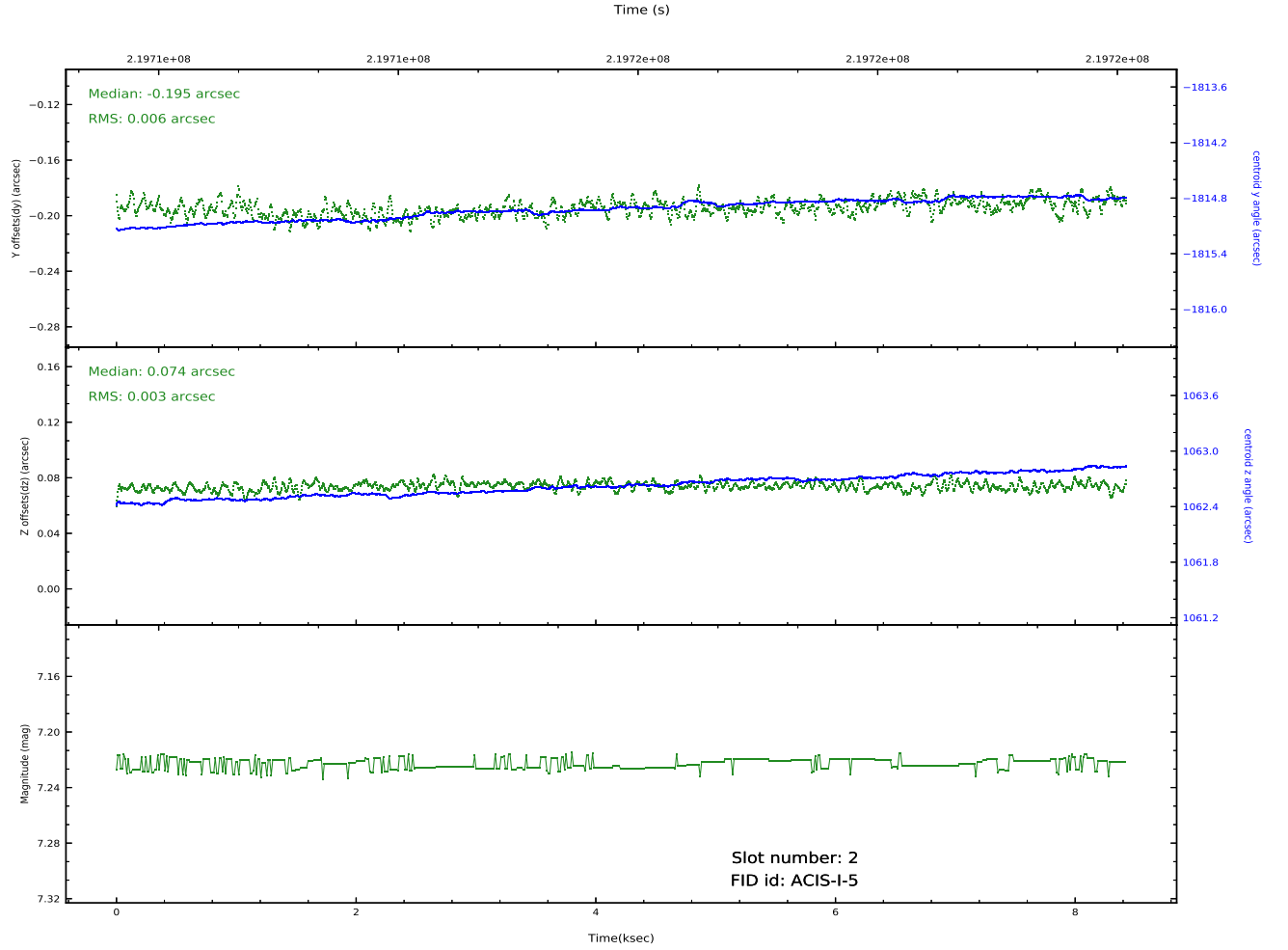
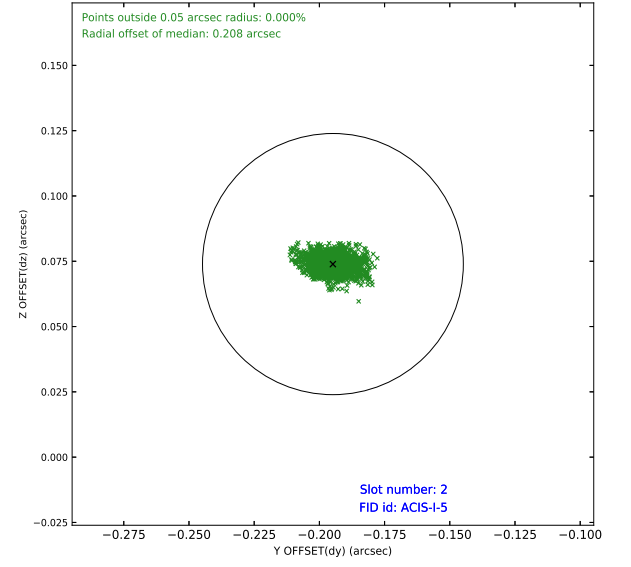
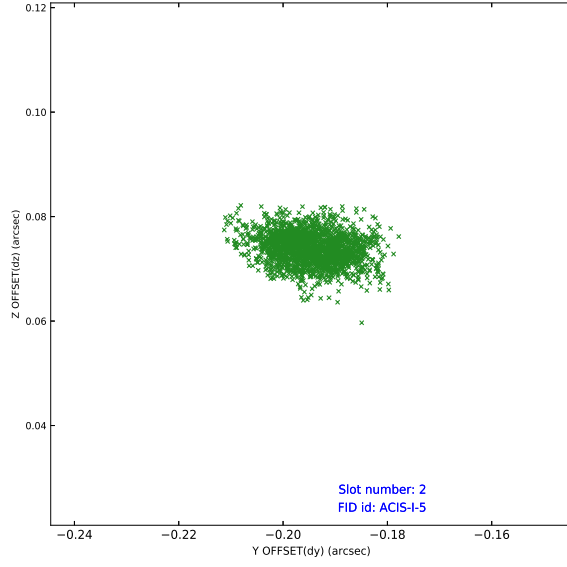
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	7.955199

A.2 Comments

Window constraint met.