

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20578 - L2 Version 2
Chandra X-Ray Center

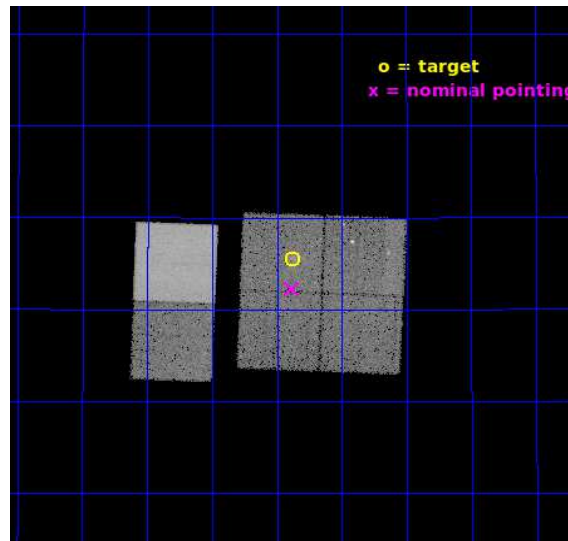
L2 Processing Date : Oct 27 2020

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1 Front

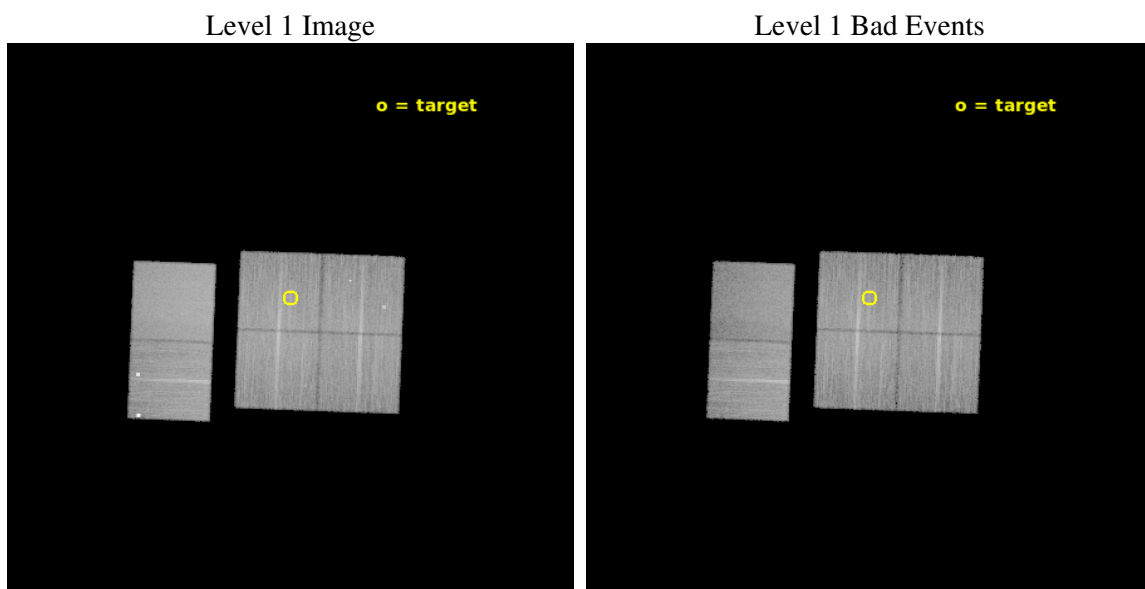
seq_num	801777	Sequence number
obs_id	20578	Observation id
title	The Chandra Strong Lens Sample: Revealing Baryonic Physics In Strong Lensing Selected Clusters	Proposal title
observer	Matthew Bayliss	Principal investigator
object	SDSSJ1522+2535	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.720833	Observer's specified target RA [deg]
dec_targ	25.591667	Observer's specified target Dec [deg]
ra_nom	230.72105272633	Nominal RA [deg]
dec_nom	25.537846245735	Nominal Dec [deg]
roll_nom	272.20397484117	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23775.130754828	Sum of GTIs [s]
livetime	23474.075733546	Livetime [s]
ontime0	23771.766654491	Sum of GTIs [s]
ontime1	23775.048674822	Sum of GTIs [s]
ontime2	23775.089714885	Sum of GTIs [s]
ontime3	23775.130754828	Sum of GTIs [s]
ontime6	23775.212834835	Sum of GTIs [s]
ontime7	23775.171794891	Sum of GTIs [s]
l2events	181979	Number of level 2 events



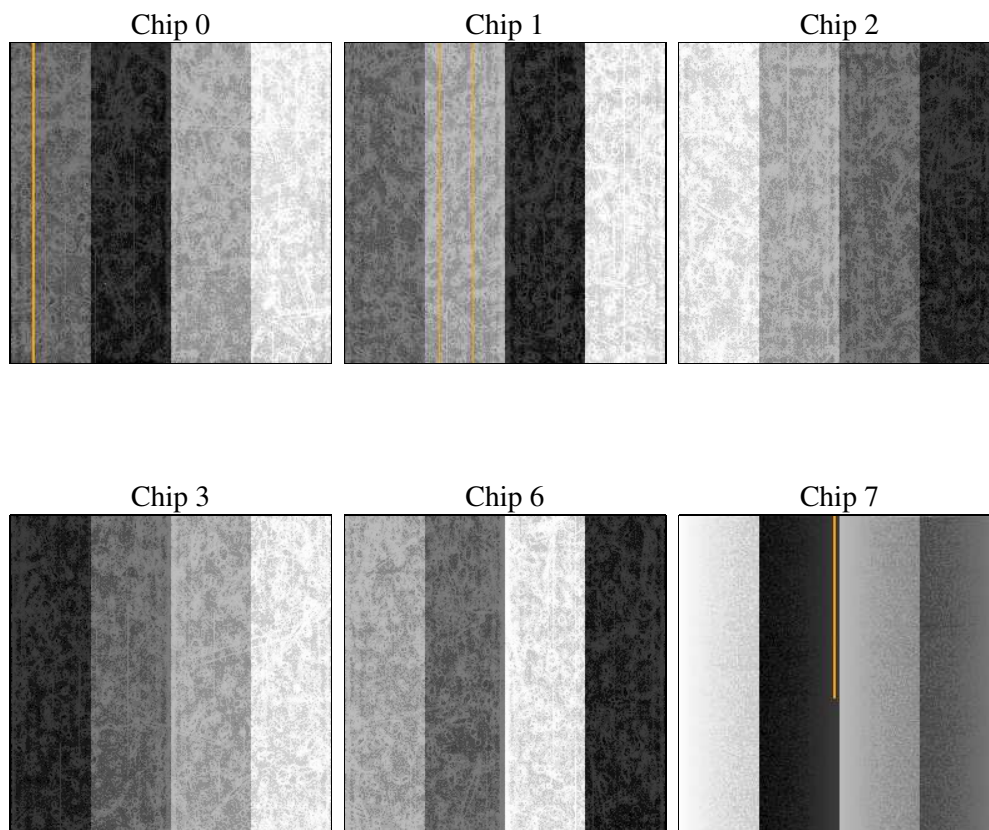
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23822.048000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	23775.130754828	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	23771.766654491	Sum of GTIs [s]
date	2020-10-27T16:10:36	Date and time of file creation	ontime1	23775.048674822	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	23775.089714885	Sum of GTIs [s]
			ontime3	23775.130754828	Sum of GTIs [s]
			ontime6	23775.212834835	Sum of GTIs [s]
			ontime7	23775.171794891	Sum of GTIs [s]
			l1events	1127881	Number of level 1 events

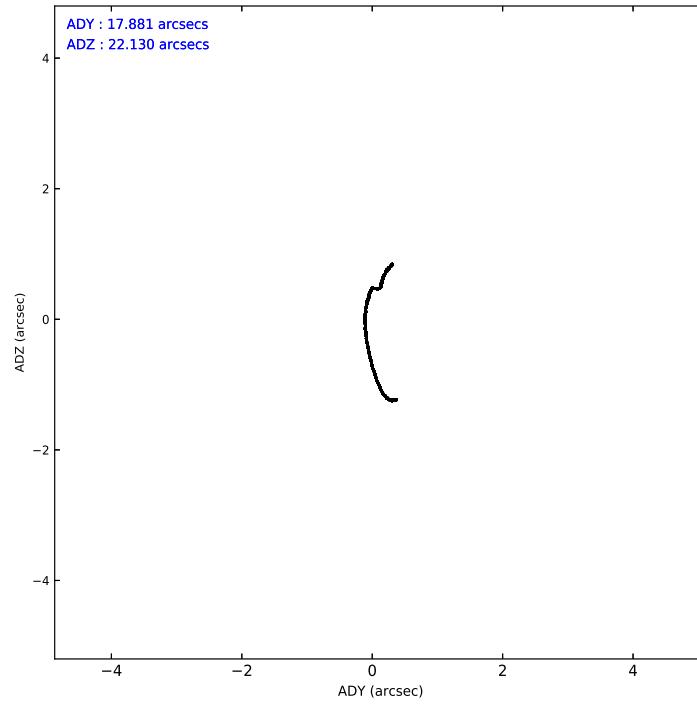
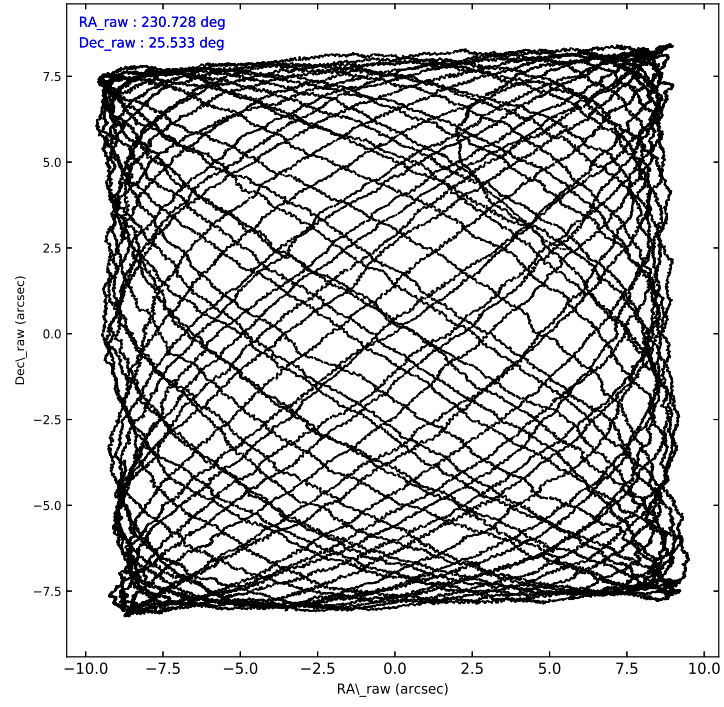
2.1.4 Events

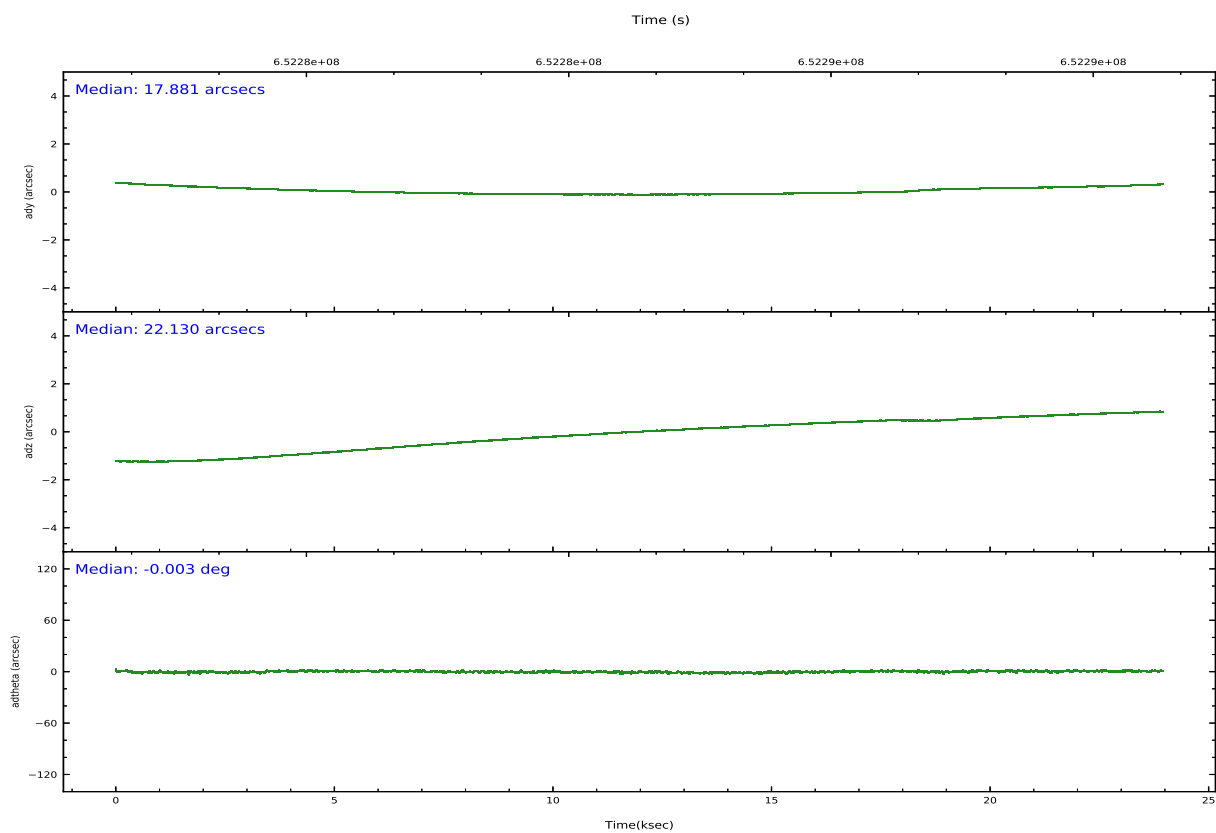
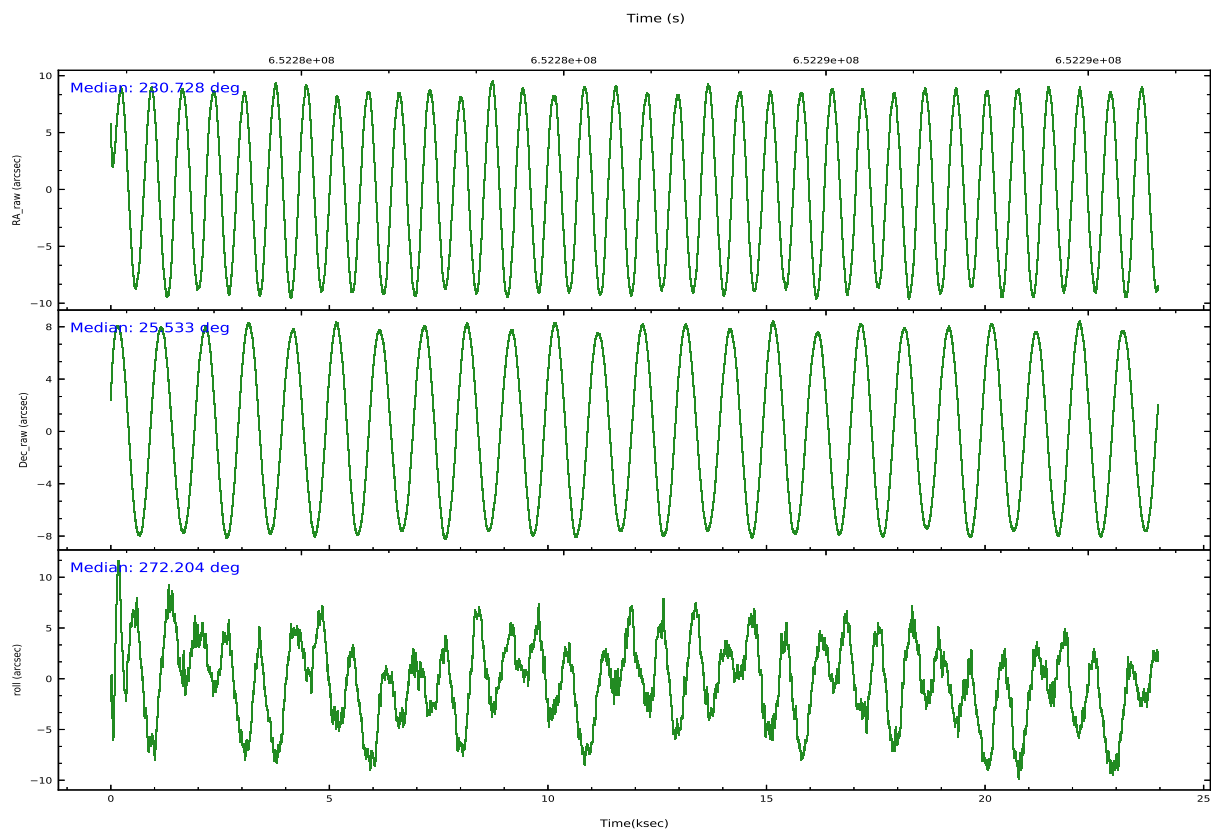
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	165379	172341	179334	178413	202011	230403	grade 0 events	6644	9335	6669	7196	18355	8308
rejected events	145610	148302	160475	159106	169699	130476		4%	5%	3%	4%	9%	3%
rejected %	88%	86%	89%	89%	84%	56%	grade 1 events	97	105	149	113	159	315
								0%	0%	0%	0%	0%	0%
							grade 2 events	5082	5814	4566	4234	5057	21191
								3%	3%	2%	2%	2%	9%
							grade 3 events	1951	1967	1922	1935	2006	7950
								1%	1%	1%	1%	0%	3%
							grade 4 events	1896	1989	1881	1965	1927	7879
								1%	1%	1%	1%	0%	3%
							grade 5 events	7247	7620	7230	8388	8477	22987
								4%	4%	4%	4%	4%	9%
							grade 6 events	4201	4938	3828	3978	4975	54618
								2%	2%	2%	2%	2%	23%
							grade 7 events	138261	140573	153089	150604	161055	107155
								83%	81%	85%	84%	79%	46%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	230.711864	230.72105272633	CCD I2 on	Y	Y
[deg] Pointing Dec	25.556191	25.537846245735	CCD I3 on	Y	Y
[deg] Pointing Roll	272.003863	272.20397484117	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.840463	-225.8433433320239	CCD S3 on	O2	Y
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	652271777.184000	652270619.83728	CCD S5 on	N	N
Observation start date	2018-09-02T10:35:08	2018-09-02T10:16:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	652295599.184000	652296541.06382	On-chip summing requested	N	N
Observation end date	2018-09-02T17:12:10	2018-09-02T17:29:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



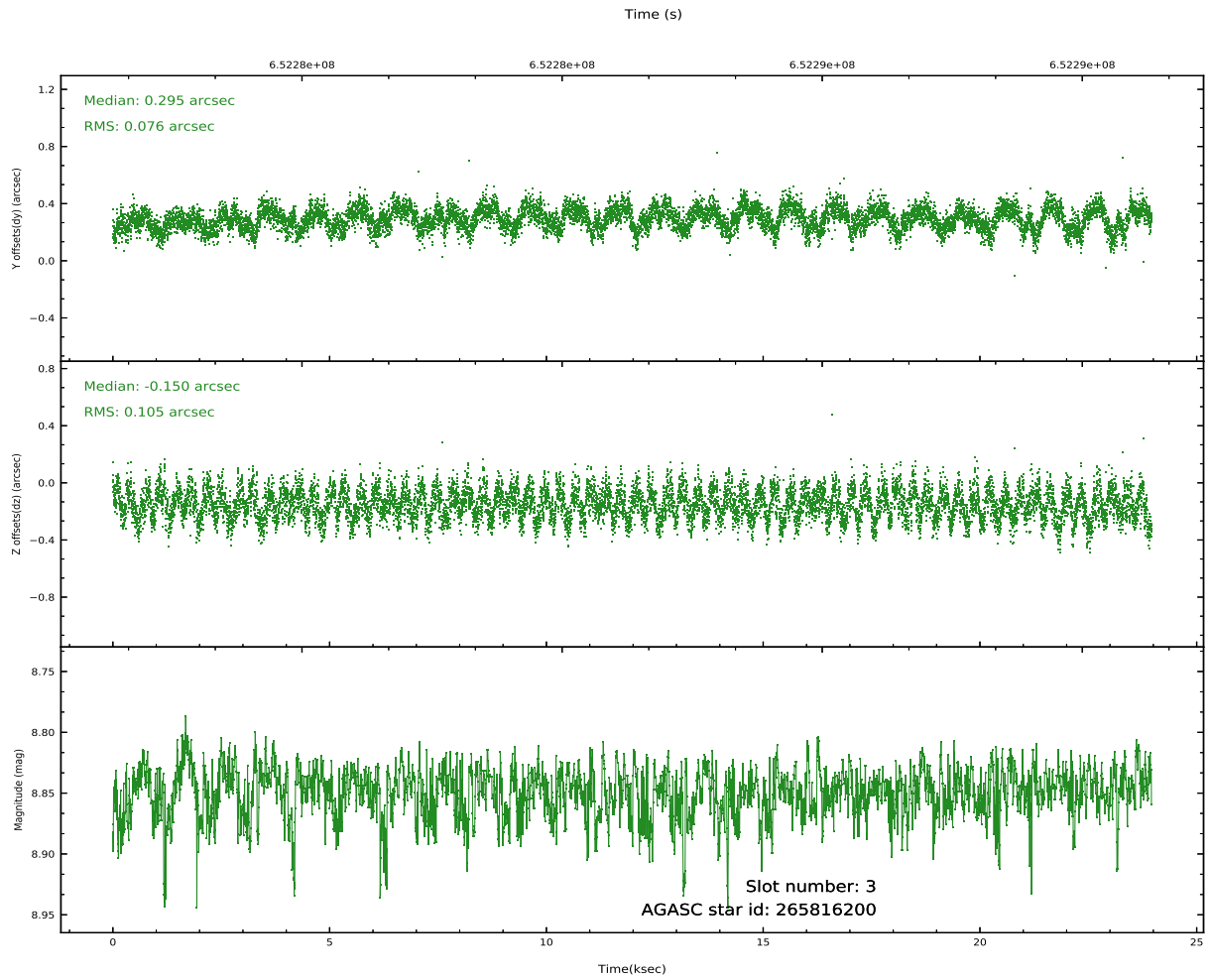
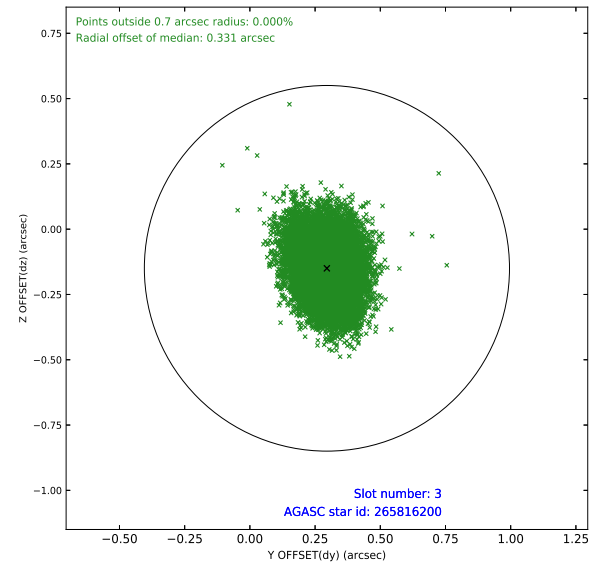
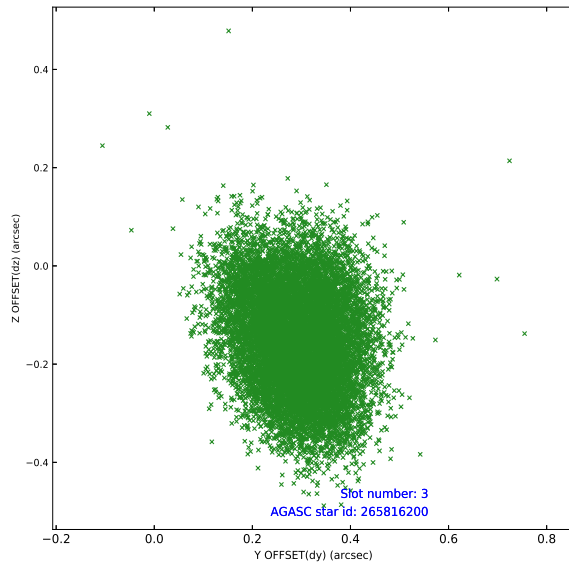


Slot Statistics

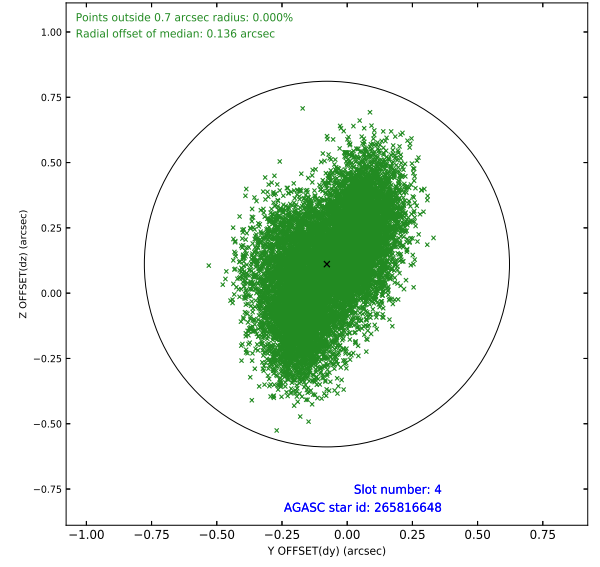
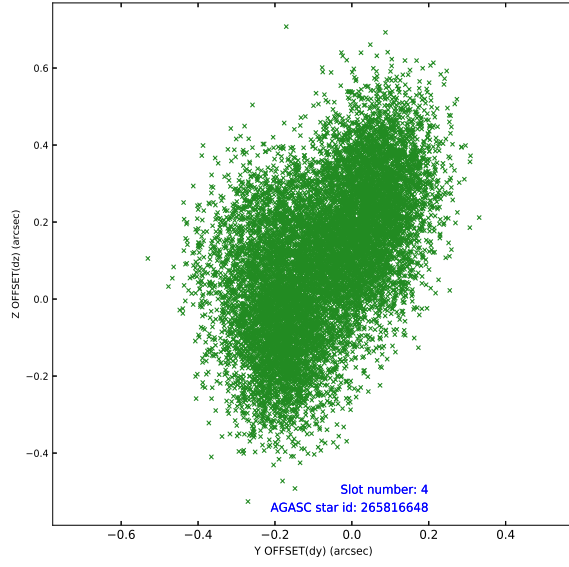
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	5842	1.000	0.039	-0.103	0.031	0.043	0.000000	0.000000	921.36	-1004
1	FID		ACIS-I-4	7.09	5843	1.000	-0.066	-0.030	0.011	0.018	0.000000	0.000000	2140.90	895
2	FID		ACIS-I-6	7.19	5844	1.000	-0.070	0.190	0.031	0.045	0.000000	0.000000	387.29	1537
3	GUIDE	used	265816200	8.85	11678	1.000	0.295	-0.150	0.140	0.220	230.288951	25.567154	-86.81	-1372
4	GUIDE	used	265816648	9.32	11675	1.000	-0.078	0.111	0.257	0.399	230.068252	26.004351	-1689.89	-2024
5	GUIDE	used	265816824	7.05	11687	1.000	-0.110	0.172	0.126	0.199	230.605524	25.624151	-256.40	-336
6	GUIDE	used	265820544	7.93	11684	1.000	0.030	-0.033	0.140	0.219	230.555543	25.244143	1104.99	-548
7	GUIDE	used	265820776	8.43	11622	1.000	-0.125	-0.087	0.186	0.280	230.965888	25.285054	1004.08	792

2.4 Star Slots

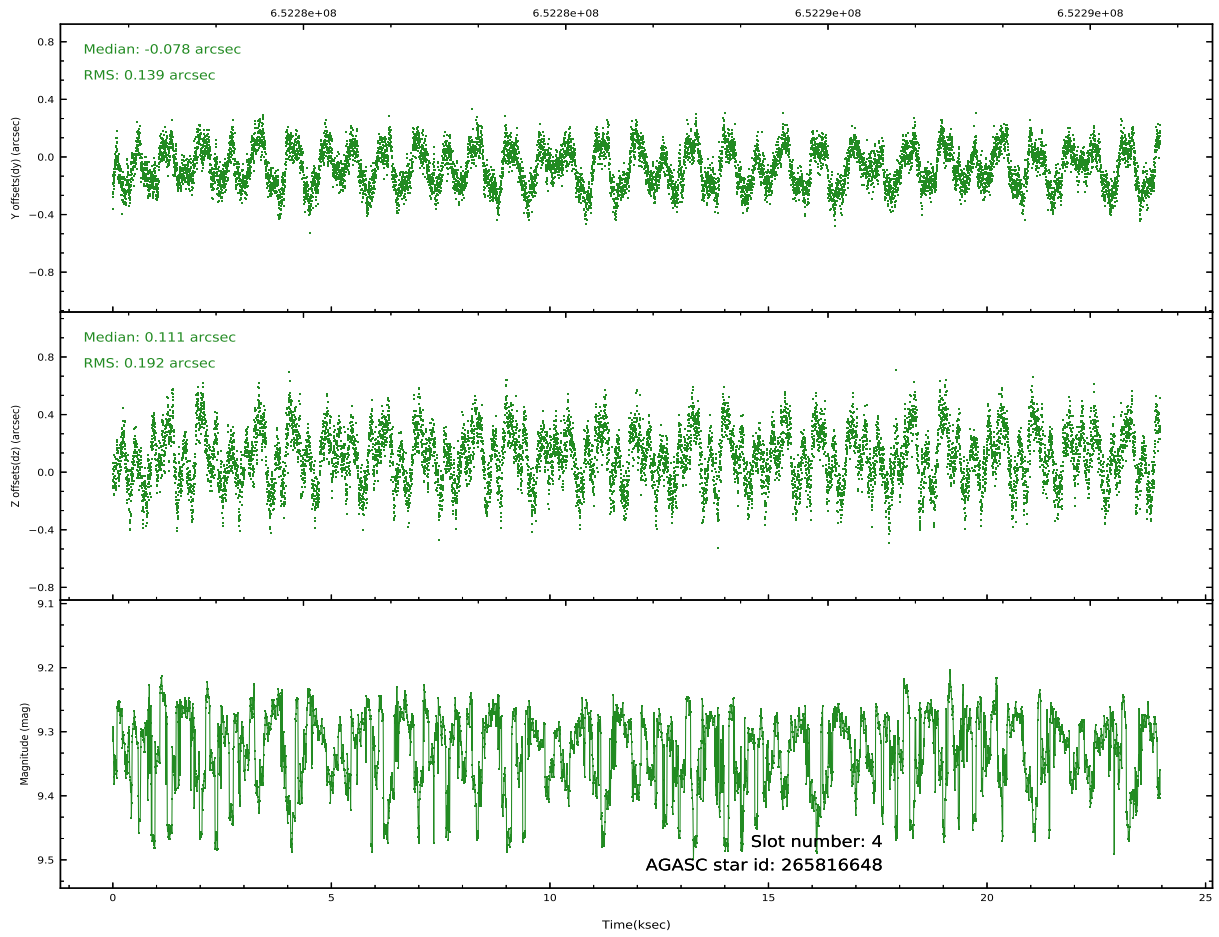
2.4.1 Slot 3



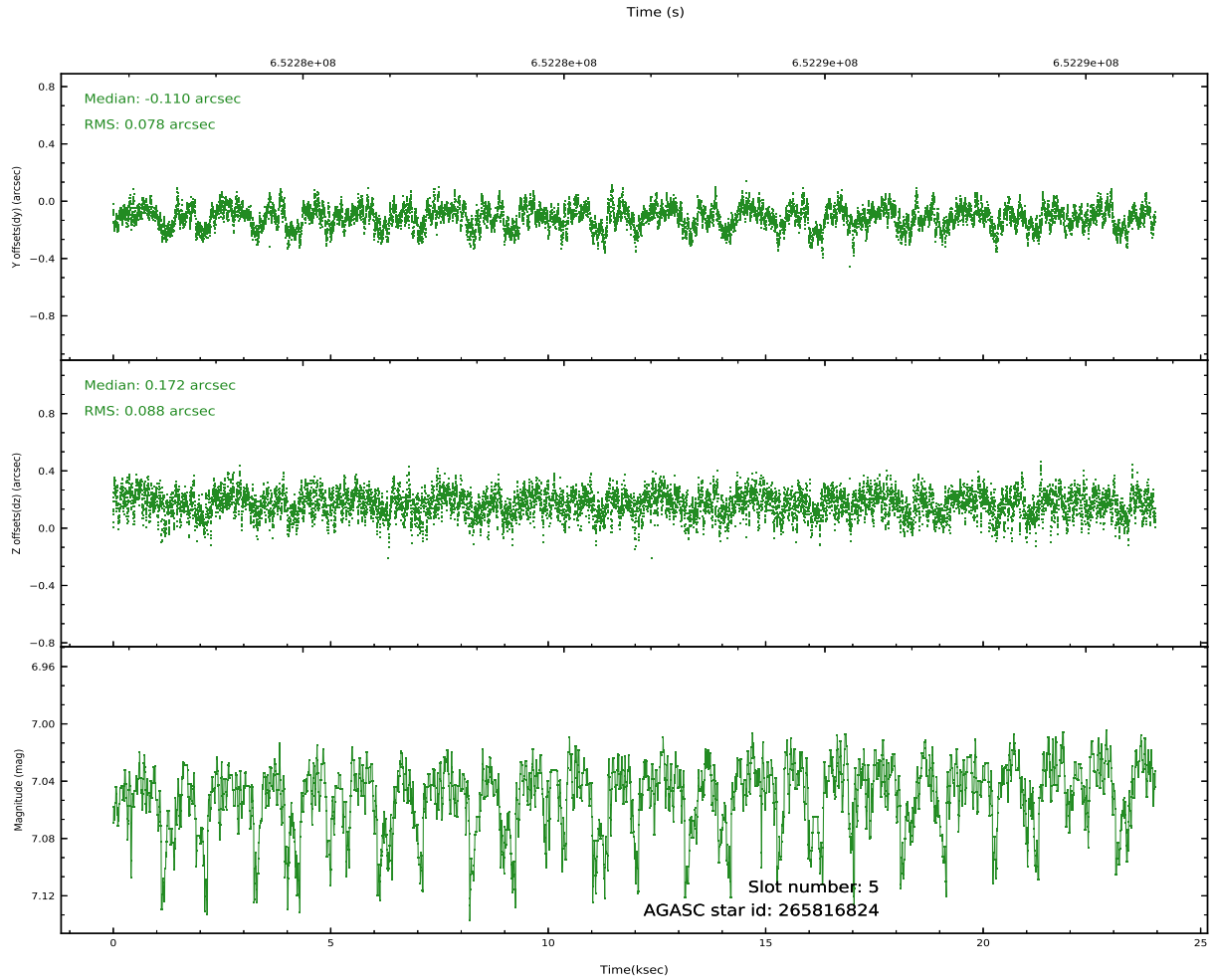
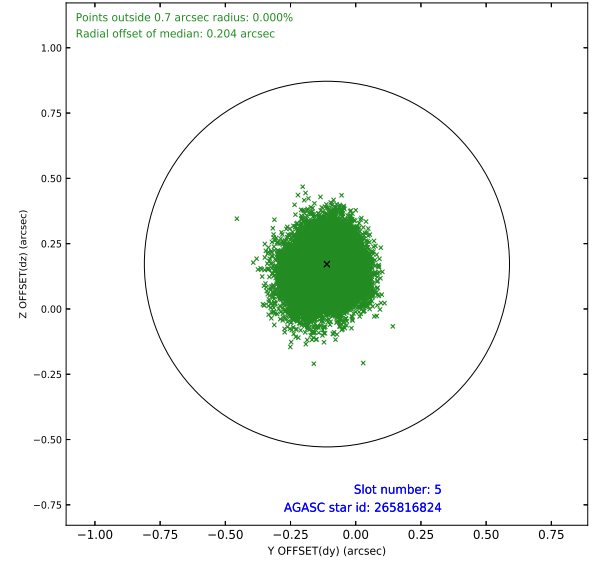
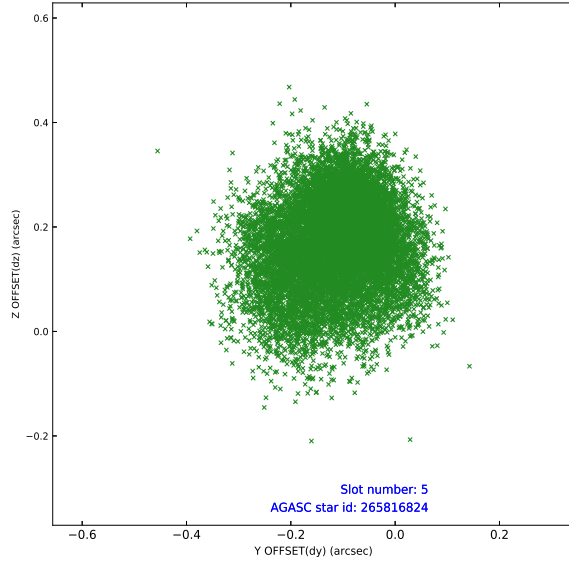
2.4.2 Slot 4



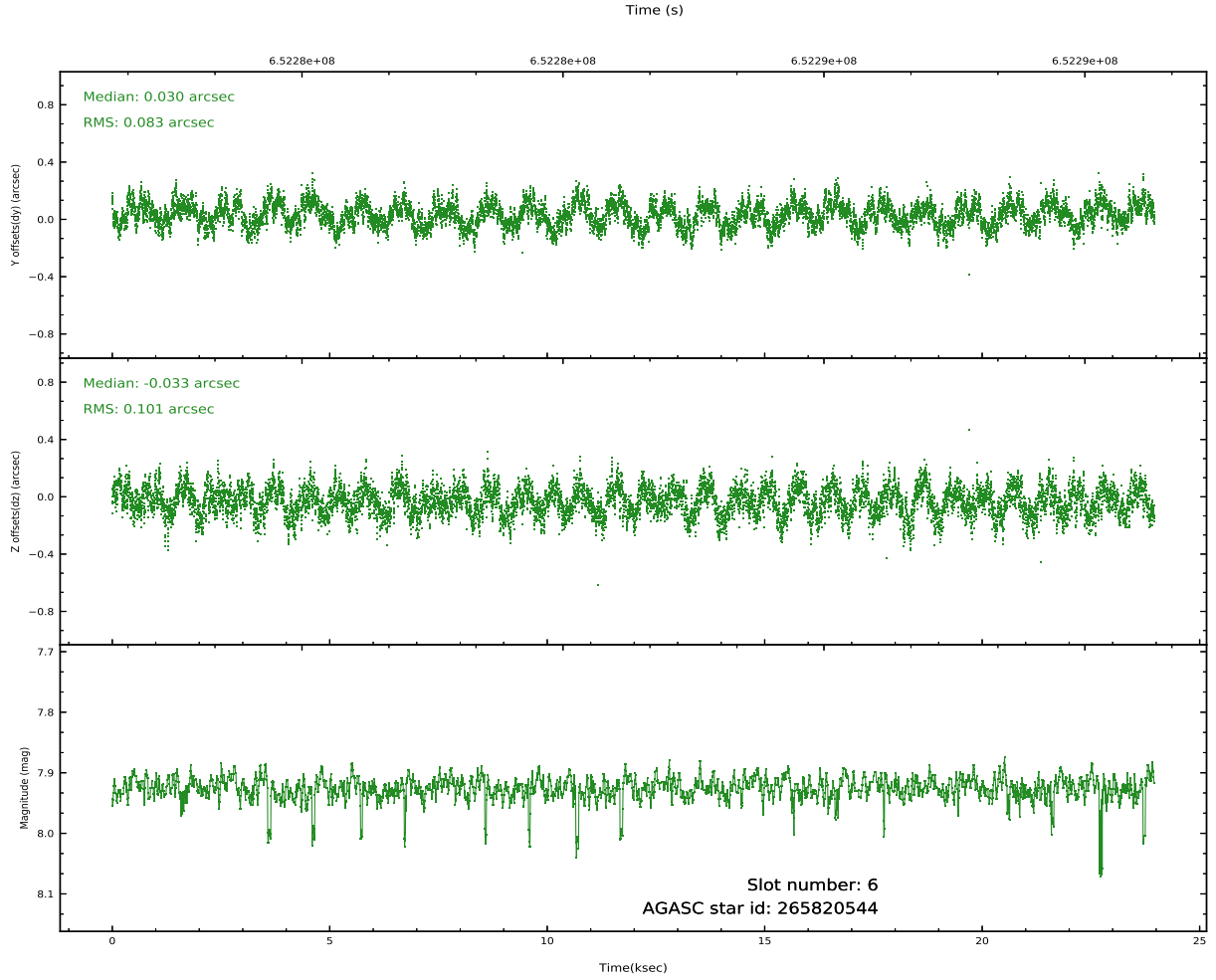
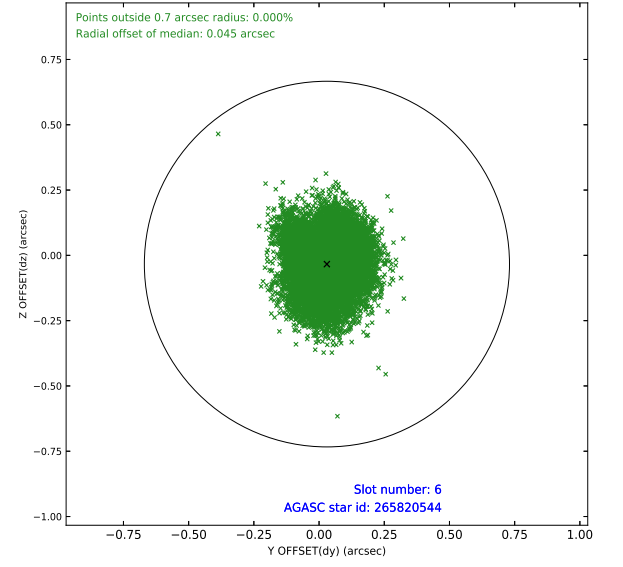
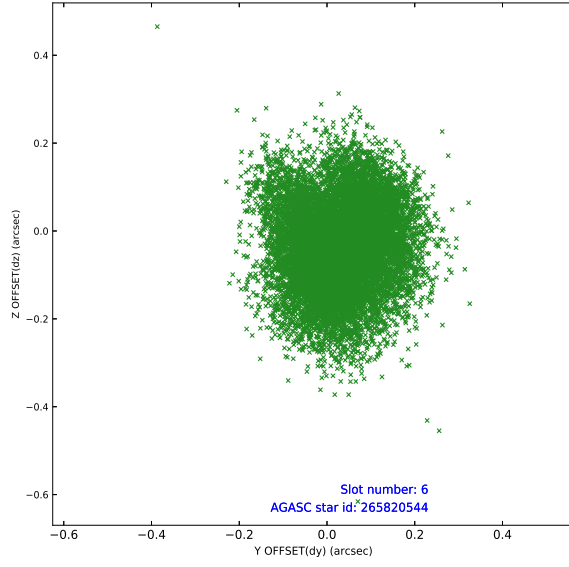
Time (s)



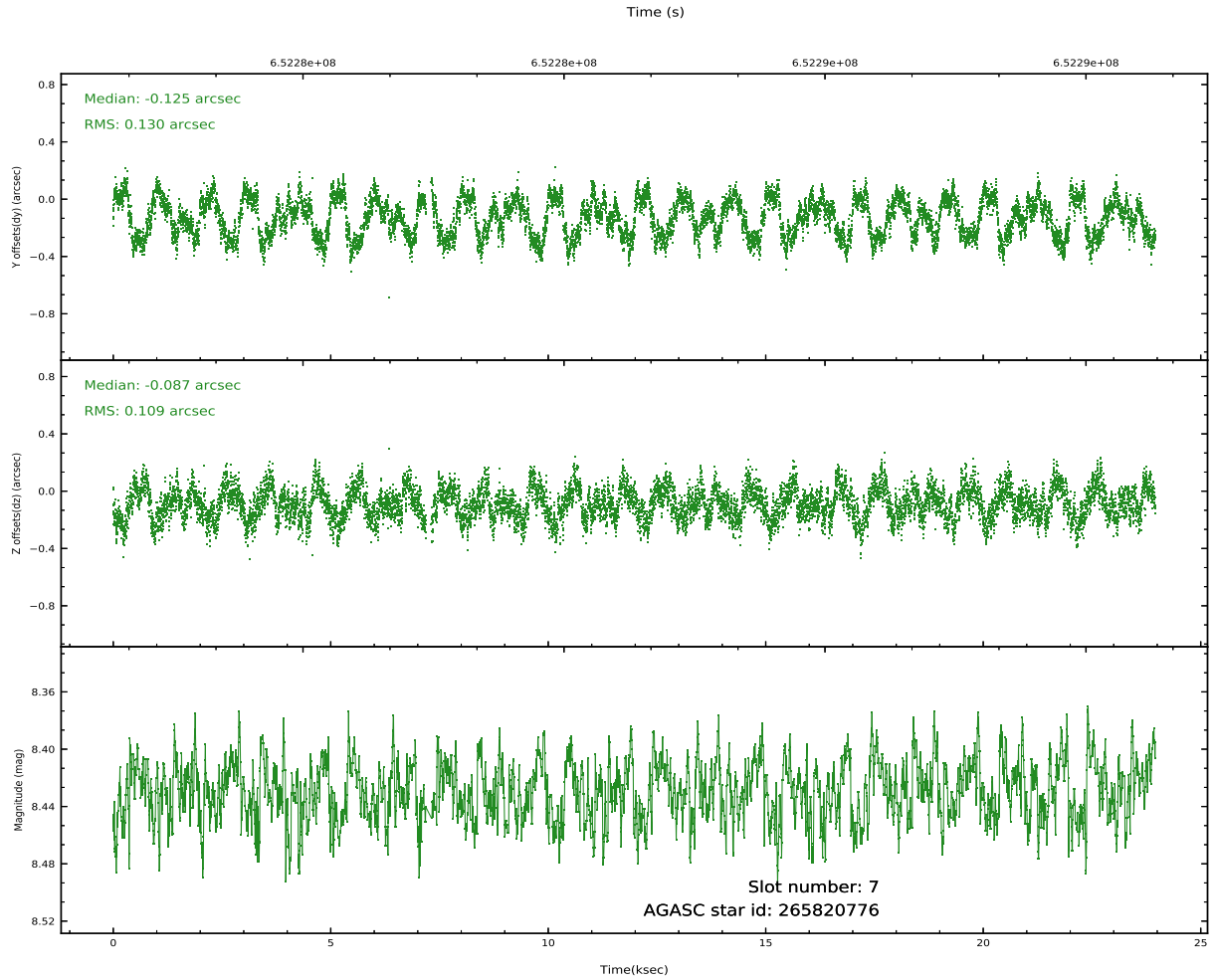
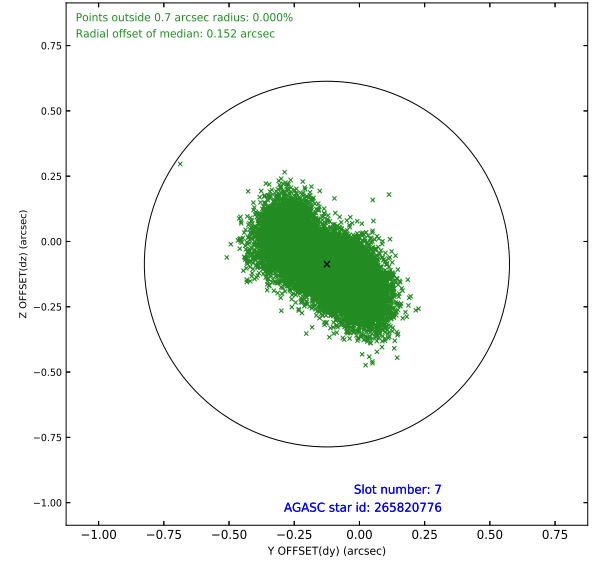
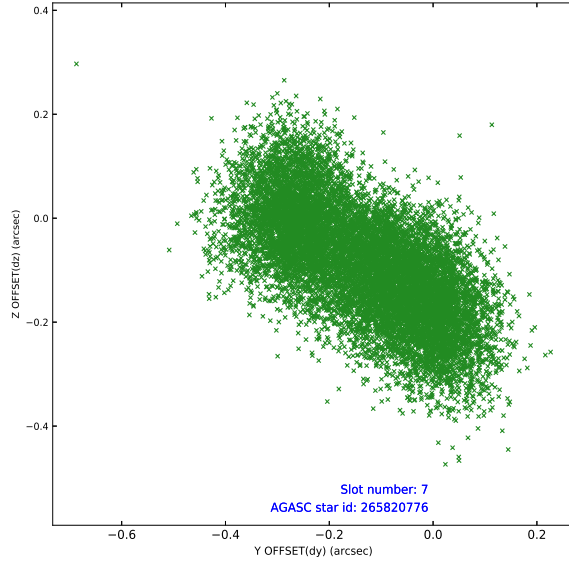
2.4.3 Slot 5



2.4.4 Slot 6

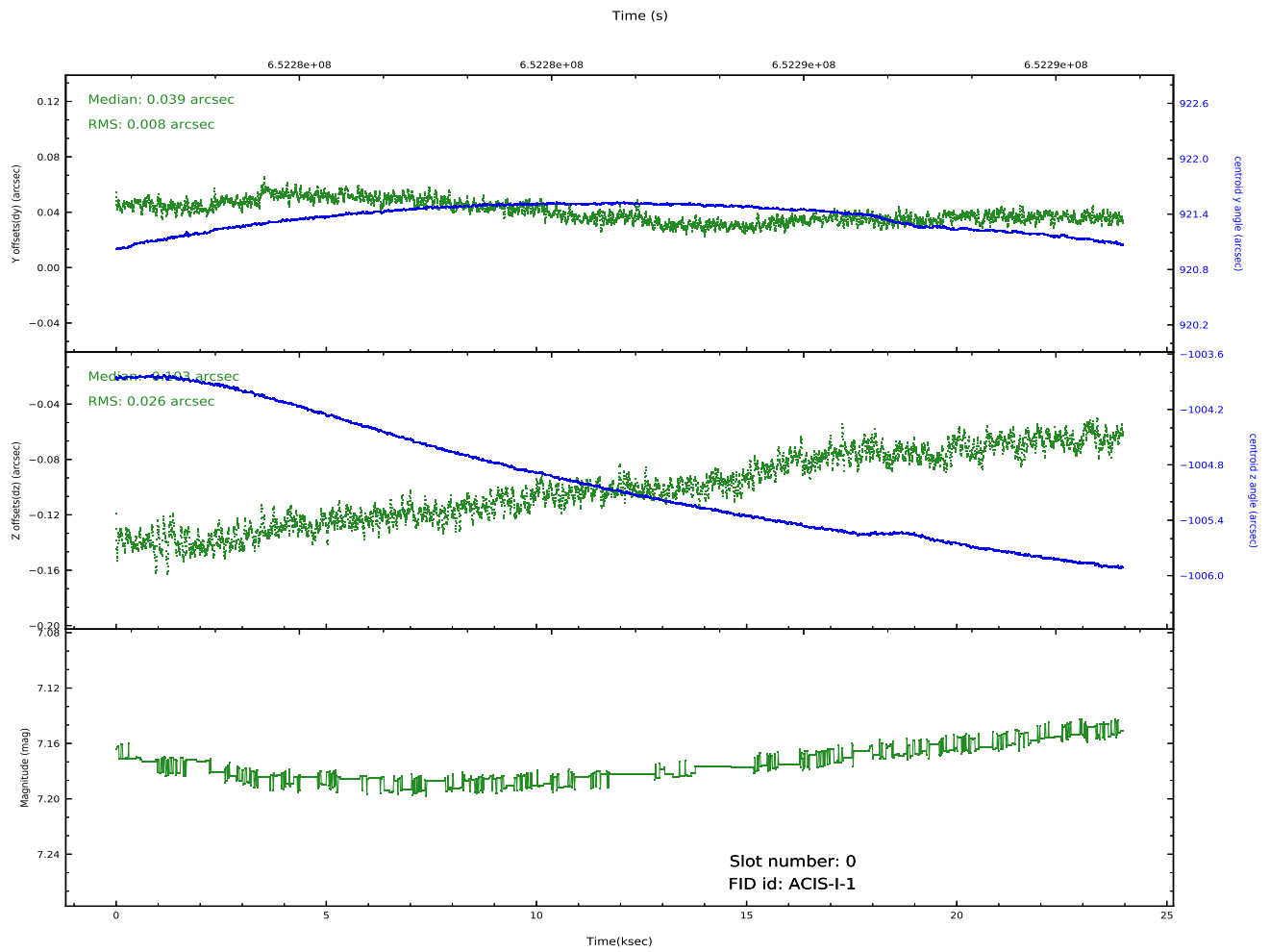
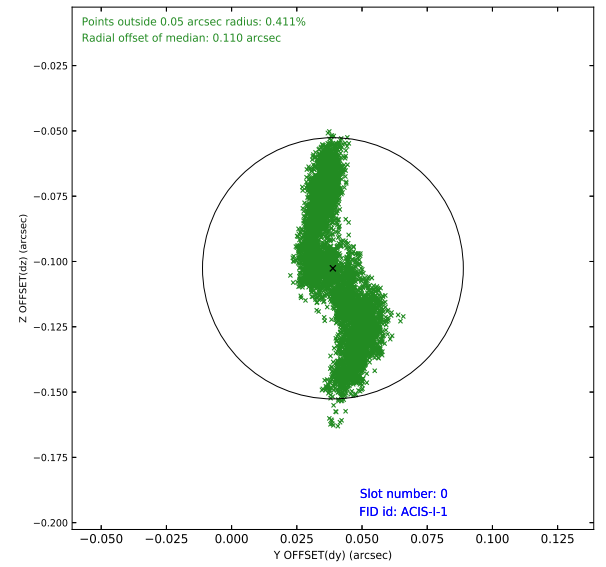
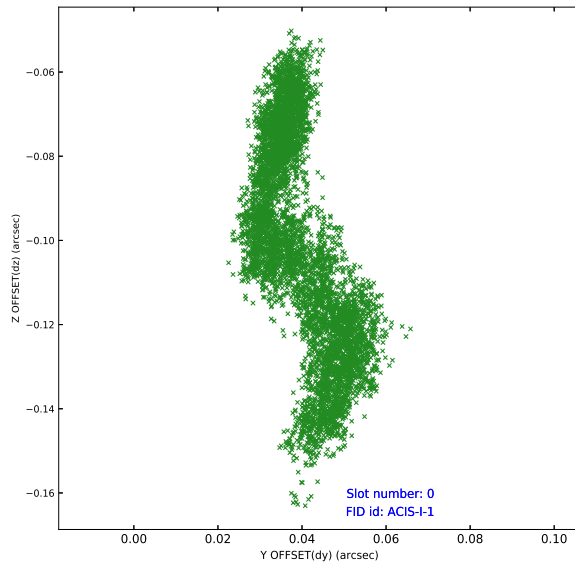


2.4.5 Slot 7

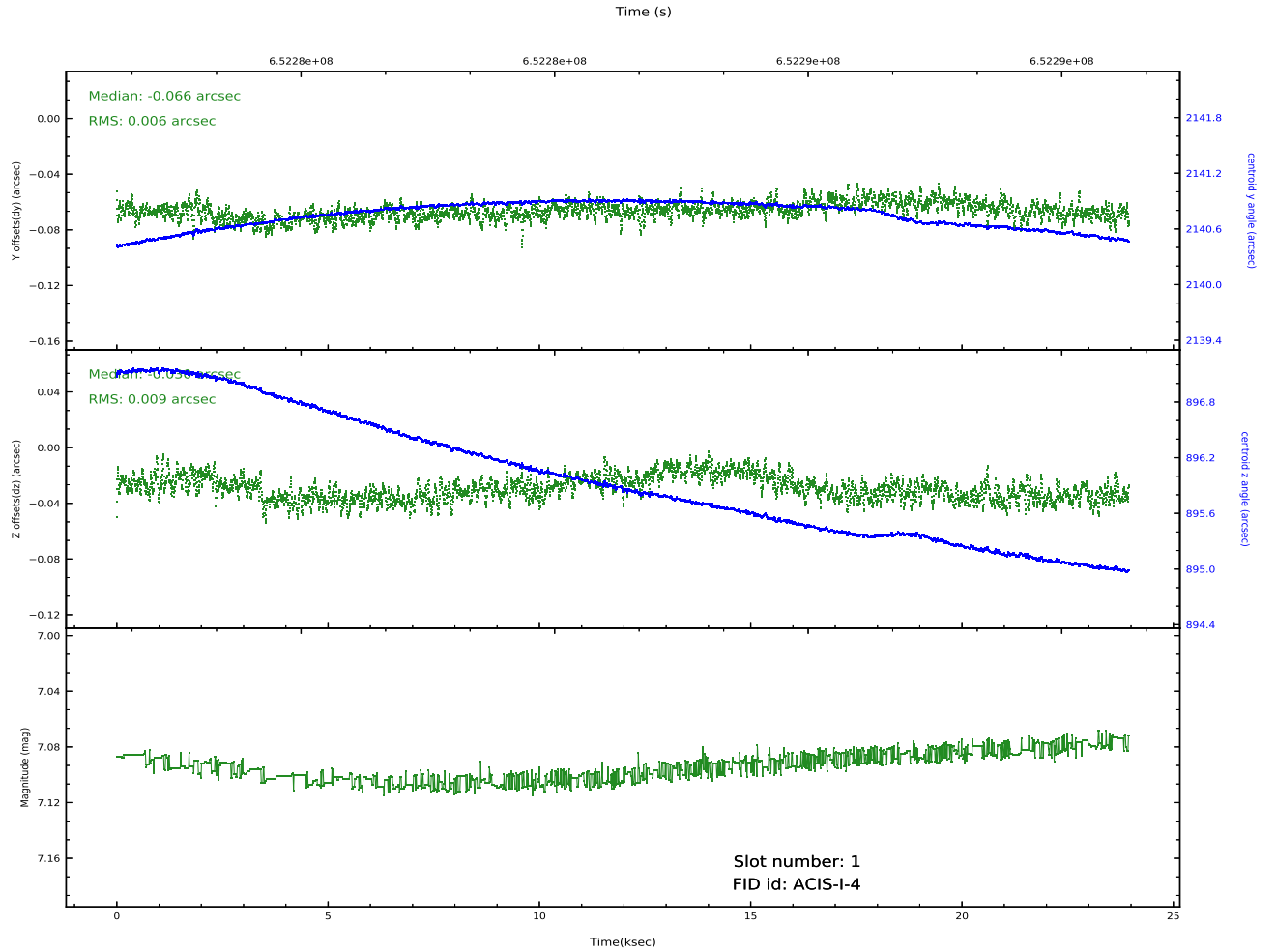
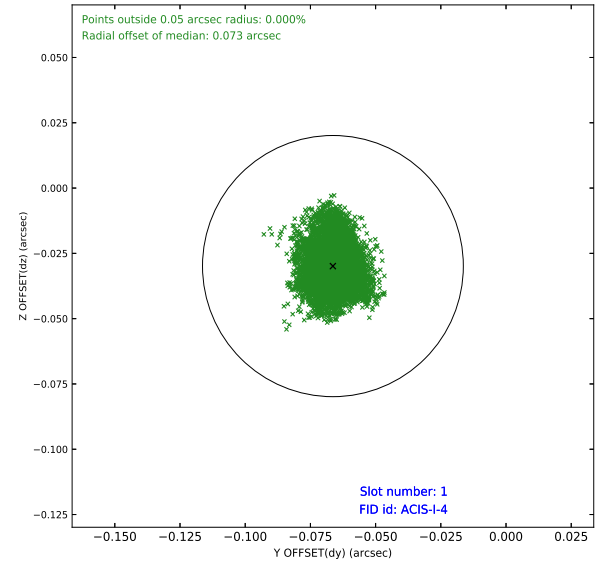
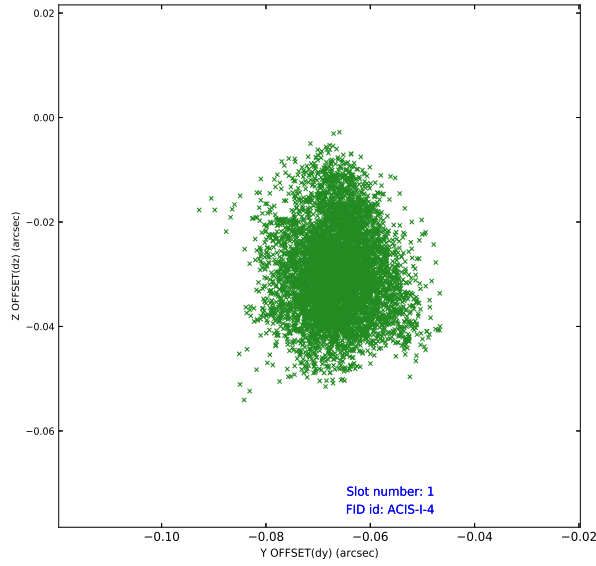


2.5 FID Slots

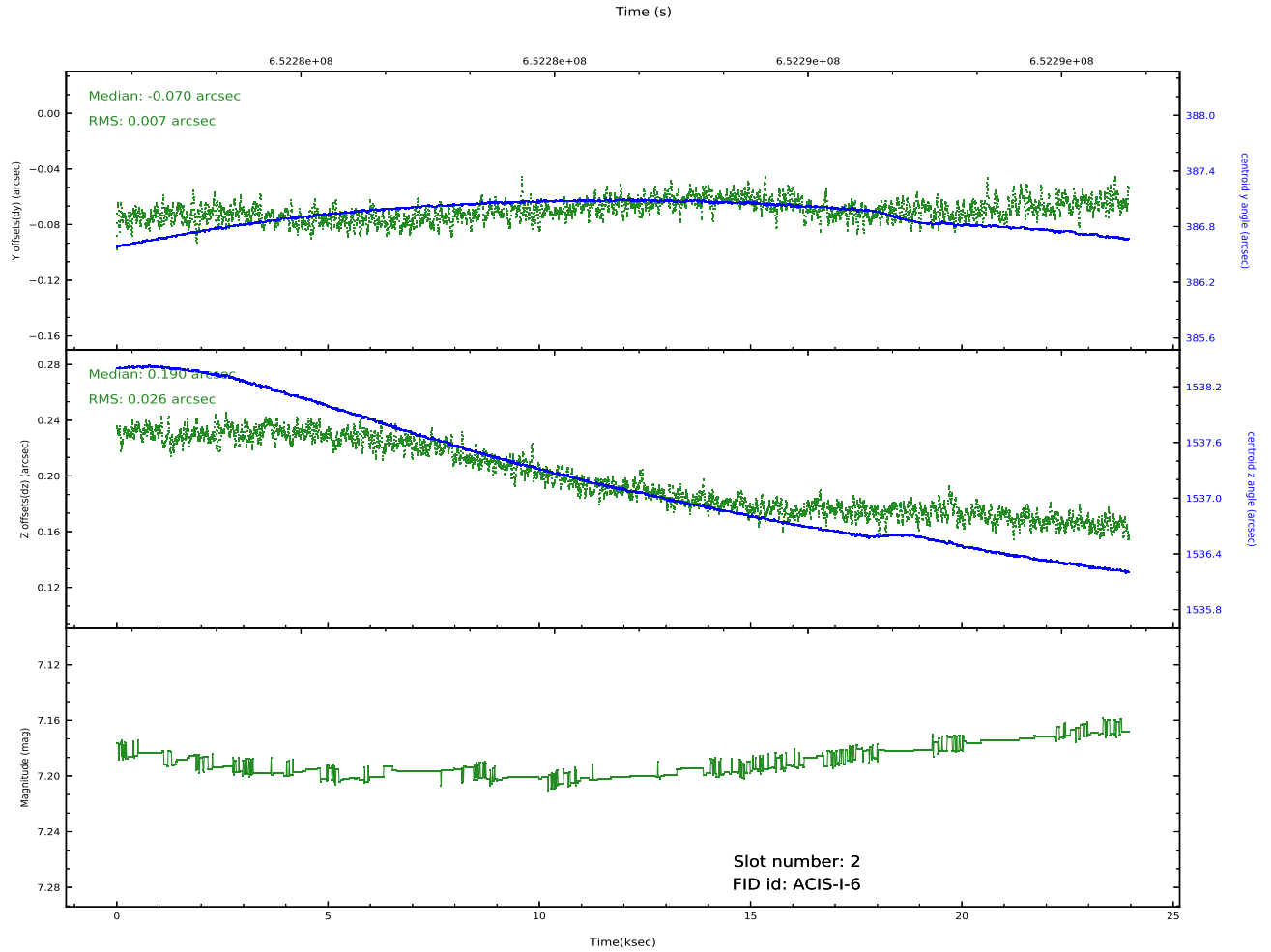
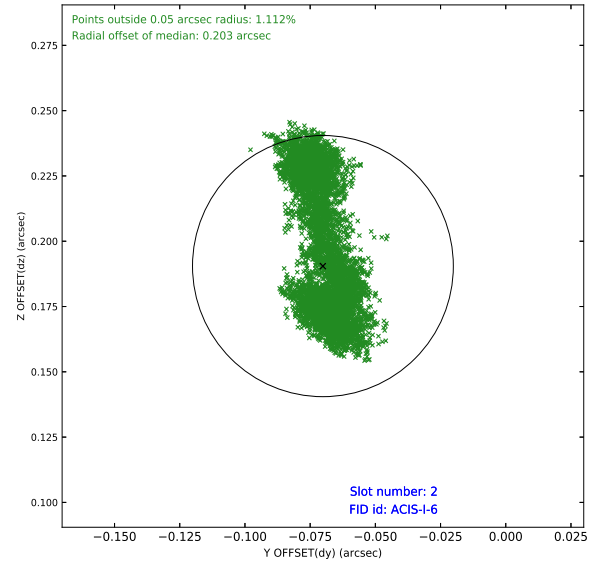
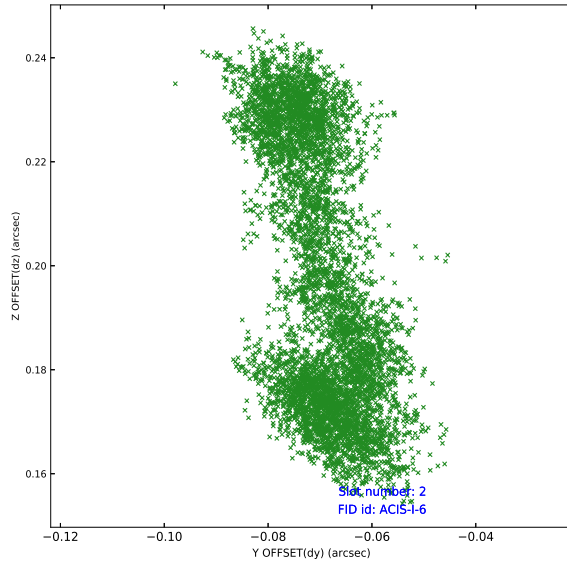
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.77513074851

A.2 Comments

Joint proposal with HST.