

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20981 - L2 Version 2
Chandra X-Ray Center

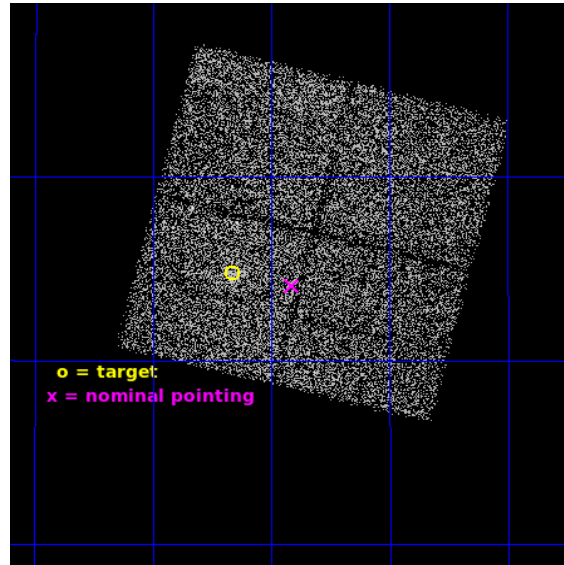
L2 Processing Date : Oct 24 2020

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1 Front

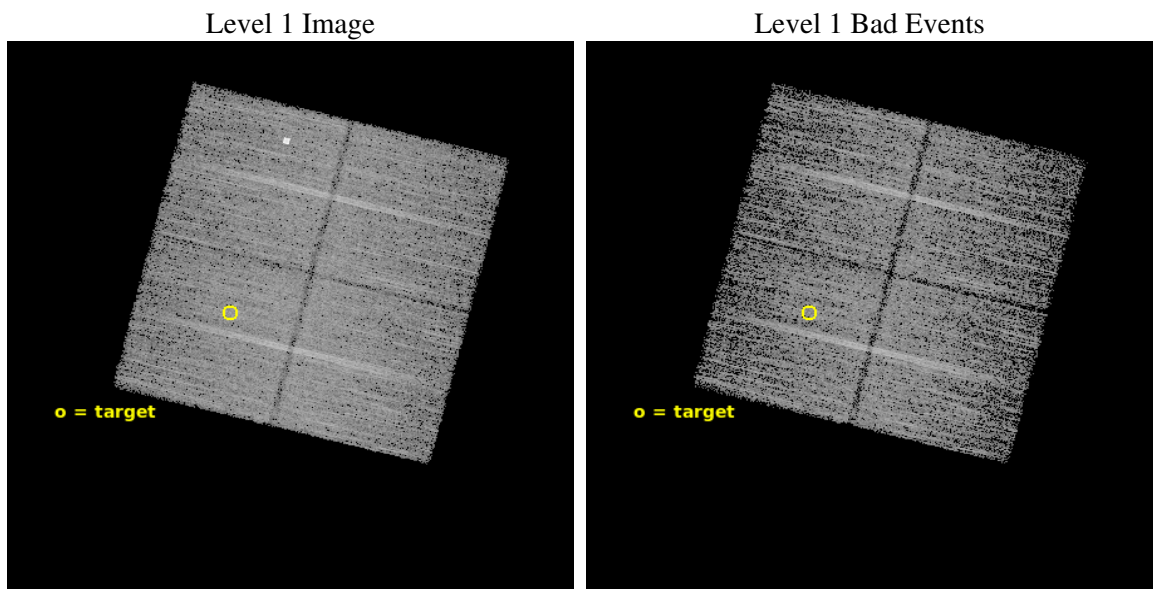
seq_num	801763	Sequence number
obs_id	20981	Observation id
title	The Chandra Strong Lens Sample: Revealing Baryonic Physics In Strong Lensing Selected Clusters	Proposal title
observer	Matthew Bayliss	Principal investigator
object	SDSSJ0952+3434	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.166667	Observer's specified target RA [deg]
dec_targ	34.579722	Observer's specified target Dec [deg]
ra_nom	148.10341456953	Nominal RA [deg]
dec_nom	34.568232773503	Nominal Dec [deg]
roll_nom	194.23330366042	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11908.992893815	Sum of GTIs [s]
livetime	11753.393134384	Livetime [s]
ontime0	11908.869773865	Sum of GTIs [s]
ontime1	11908.910813808	Sum of GTIs [s]
ontime2	11908.951853871	Sum of GTIs [s]
ontime3	11908.992893815	Sum of GTIs [s]
l2events	31212	Number of level 2 events



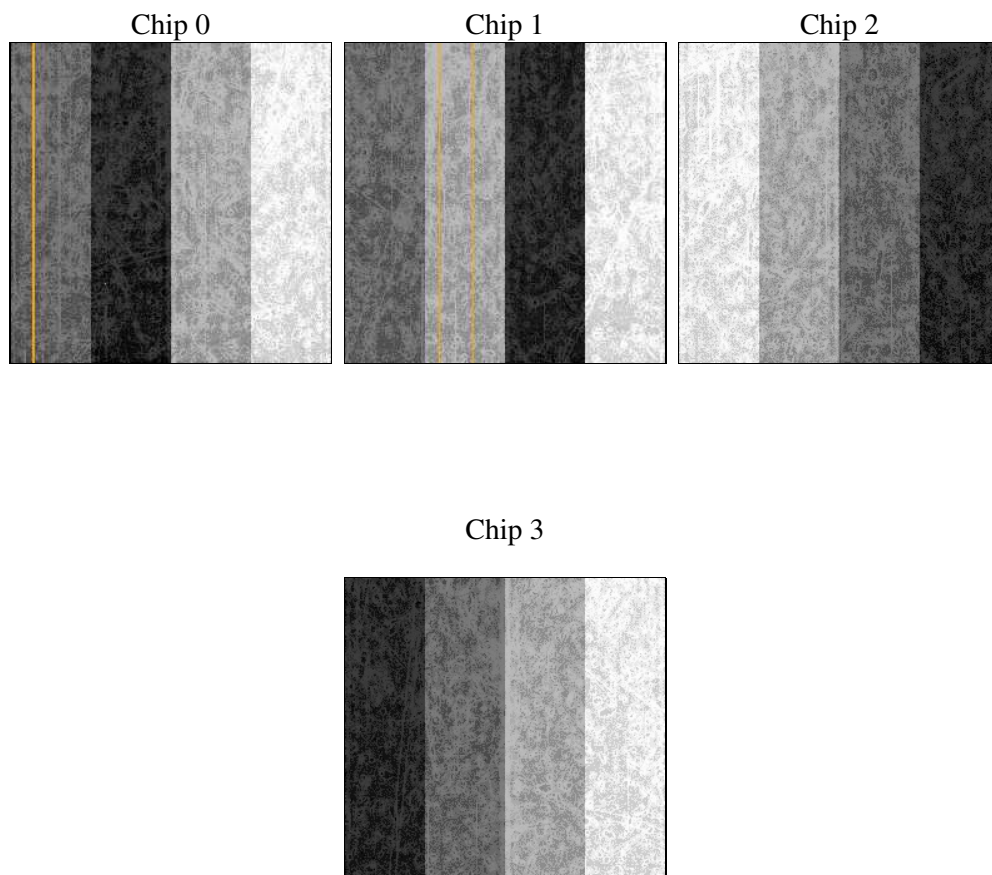
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	11908.992893815	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	11908.869773865	Sum of GTIs [s]
date	2020-10-24T18:35:45	Date and time of file creation	ontime1	11908.910813808	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	11908.951853871	Sum of GTIs [s]
			ontime3	11908.992893815	Sum of GTIs [s]
			l1events	344367	Number of level 1 events

2.1.4 Events

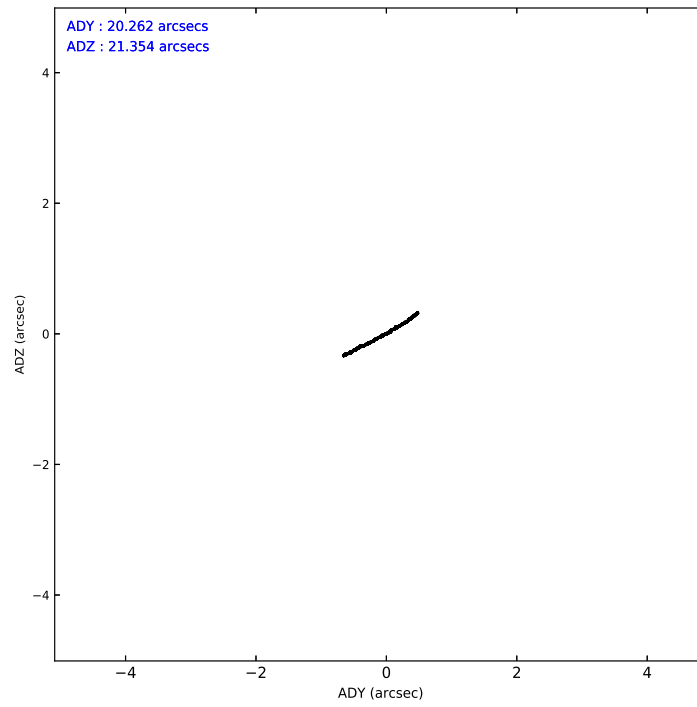
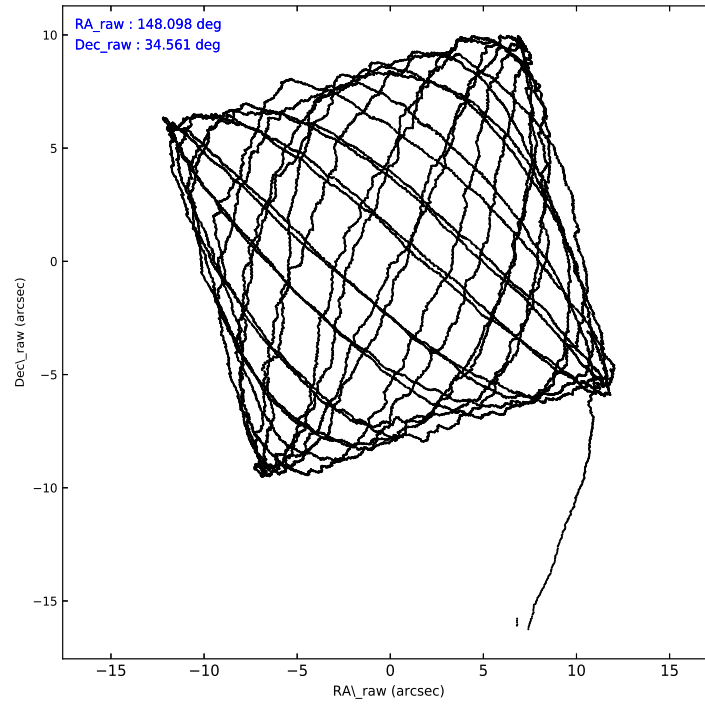
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	79557	88130	90568	86112
rejected events	70386	74815	81606	76998
rejected %	88%	84%	90%	89%

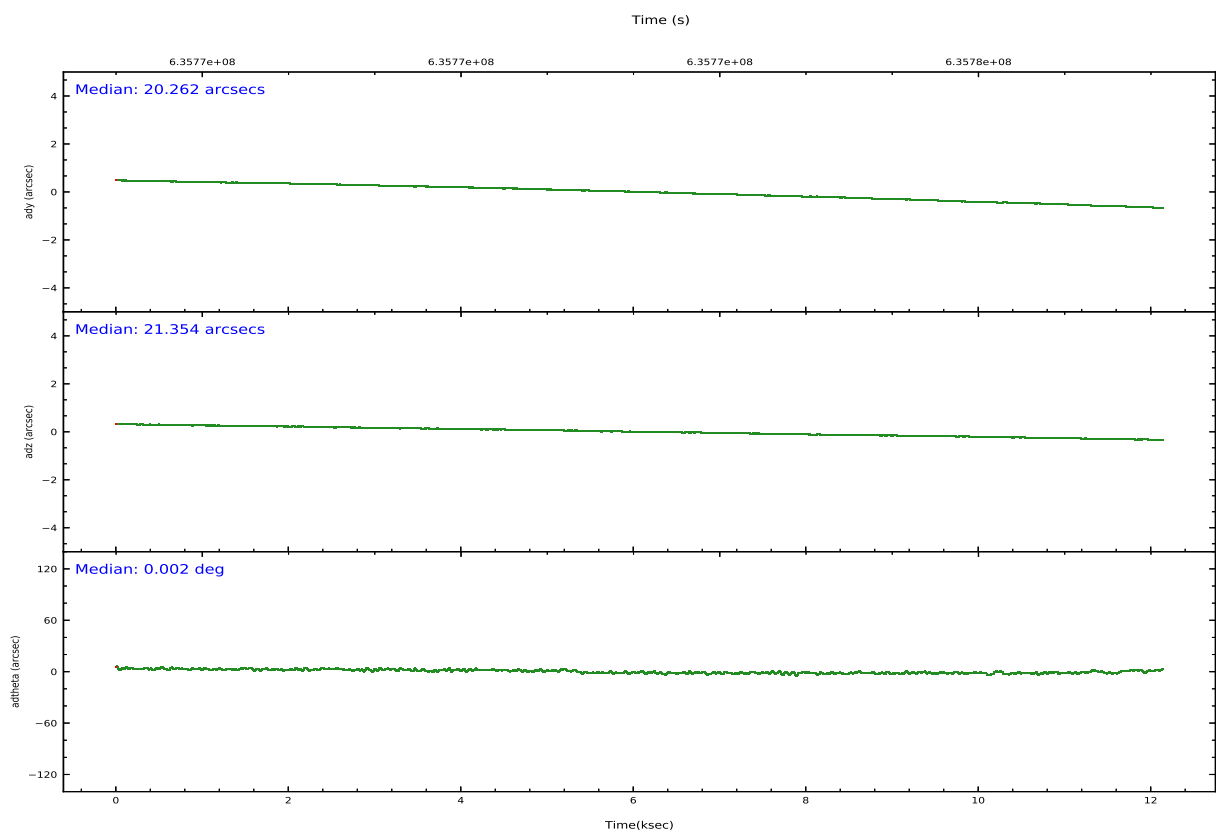
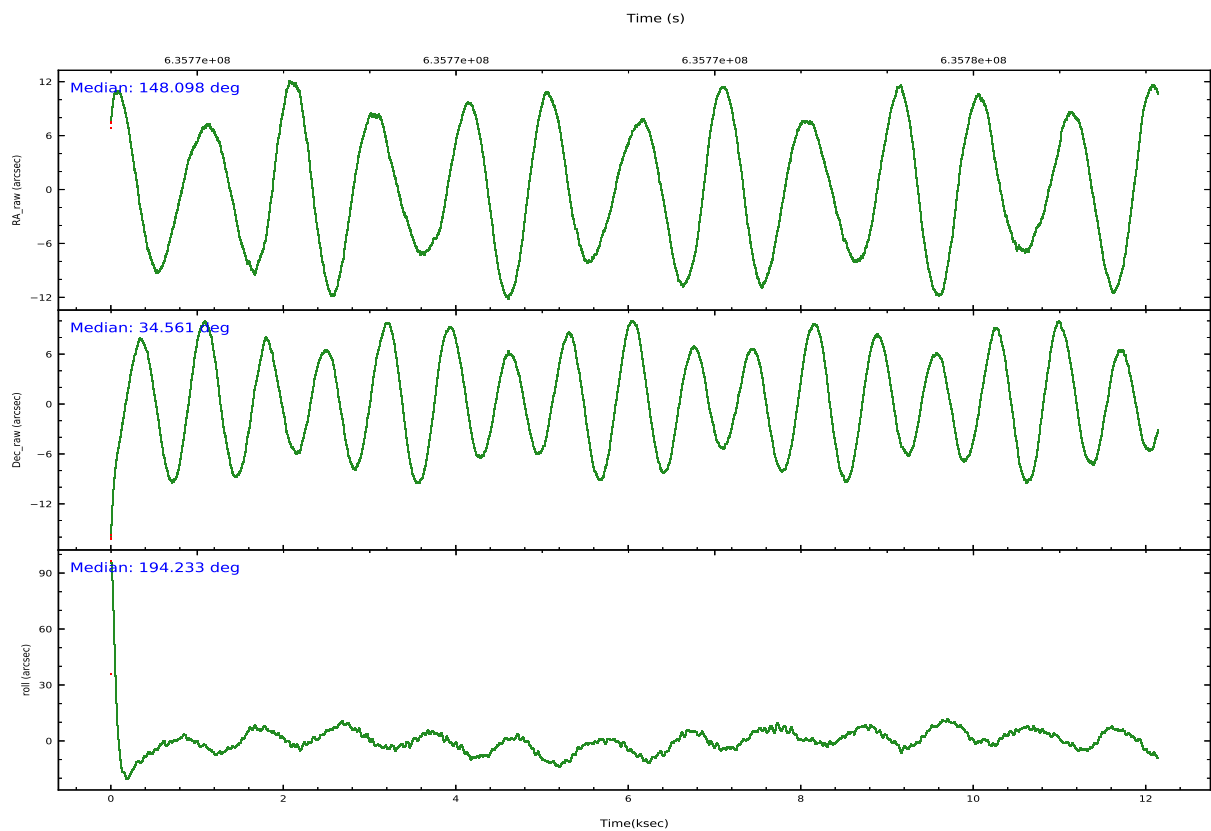
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3084	6589	3264	3345
	3%	7%	3%	3%
grade 1 events	46	61	49	42
	0%	0%	0%	0%
grade 2 events	2359	2429	2114	1973
	2%	2%	2%	2%
grade 3 events	913	949	851	987
	1%	1%	0%	1%
grade 4 events	822	973	908	889
	1%	1%	1%	1%
grade 5 events	3608	3723	3316	4048
	4%	4%	3%	4%
grade 6 events	2000	2381	1830	1925
	2%	2%	2%	2%
grade 7 events	66725	71025	78236	72903
	83%	80%	86%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	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	148.122284	148.10341456953	CCD I2 on	Y	Y
[deg] Pointing Dec	34.580173	34.568232773503	CCD I3 on	Y	Y
[deg] Pointing Roll	194.025186	194.23330366042	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	N
[mm] SIM translation stage pos	-225.840463	-225.8458576473255	CCD S3 on	O2	N
[mm] SIM translation stage offset	-7.752	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	635766142.184000	635765254.49863	CCD S5 on	N	N
Observation start date	2018-02-23T09:41:13	2018-02-23T09:27:34	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	635778142.184000	635779214.48695	On-chip summing requested	N	N
Observation end date	2018-02-23T13:01:13	2018-02-23T13:20:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



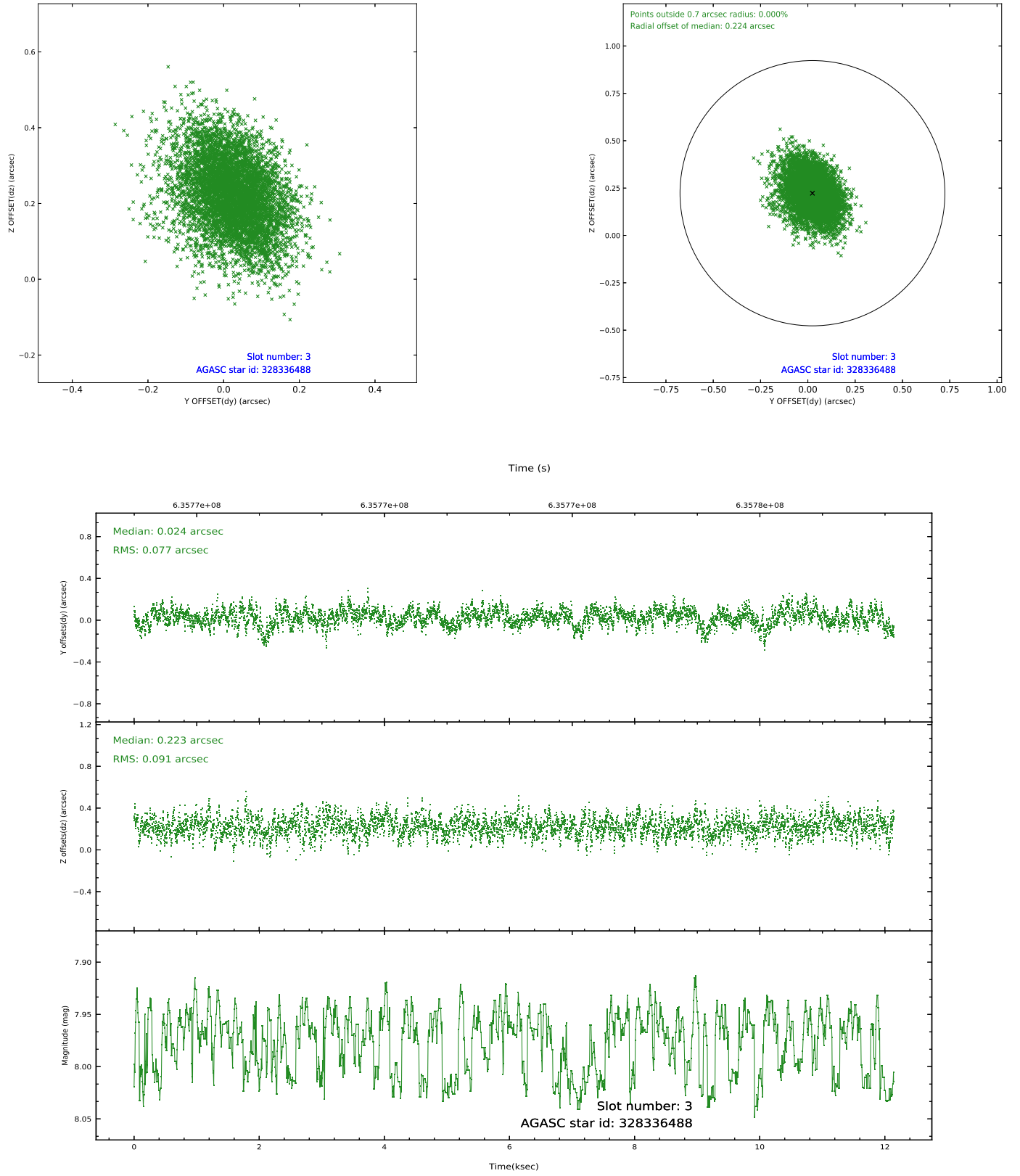


Slot Statistics

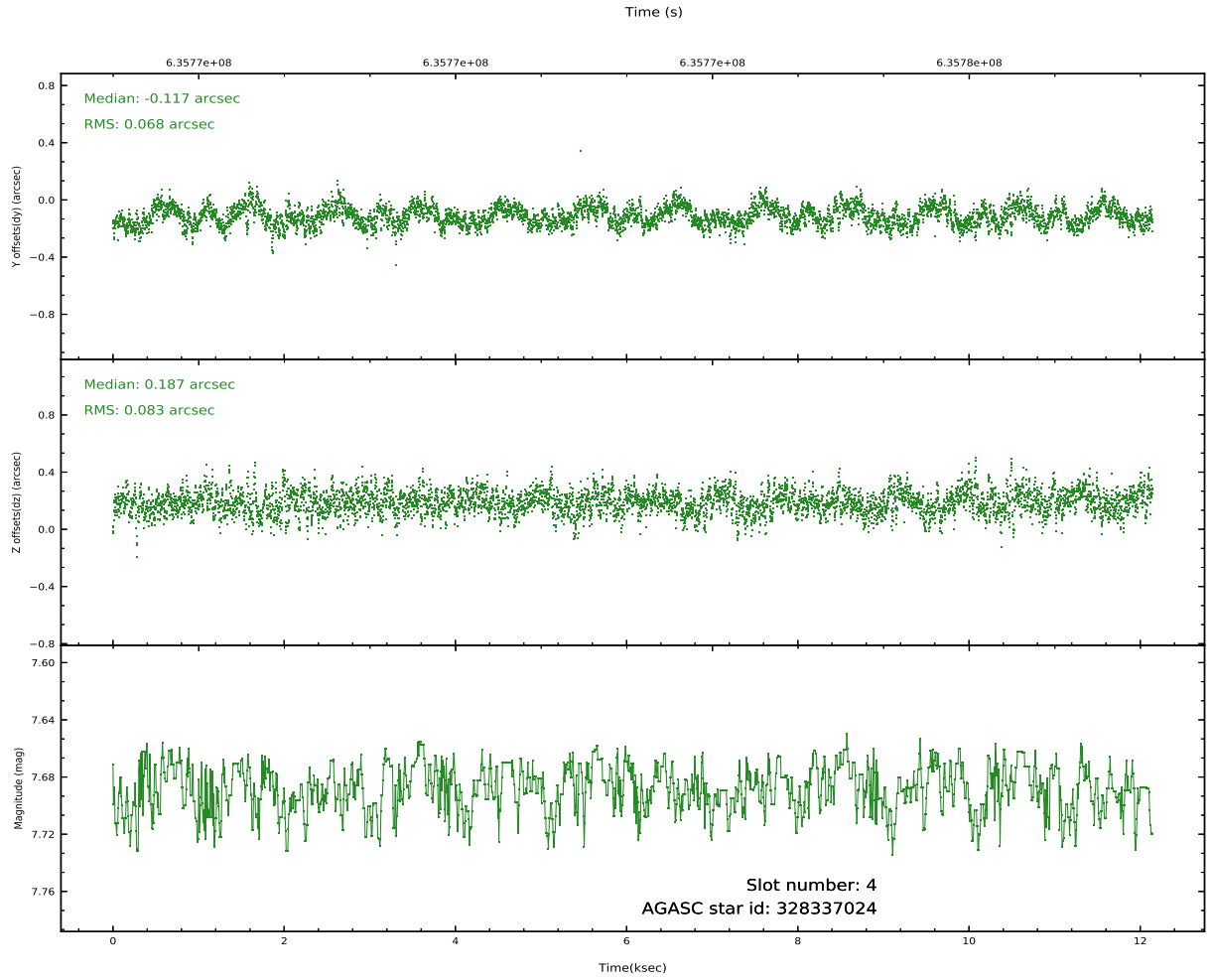
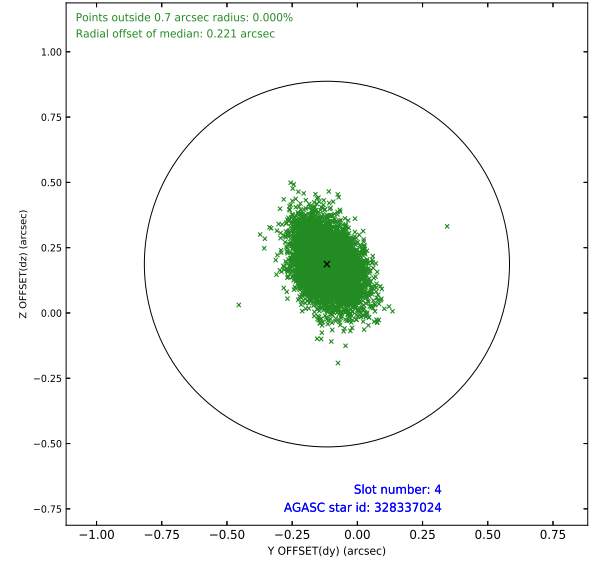
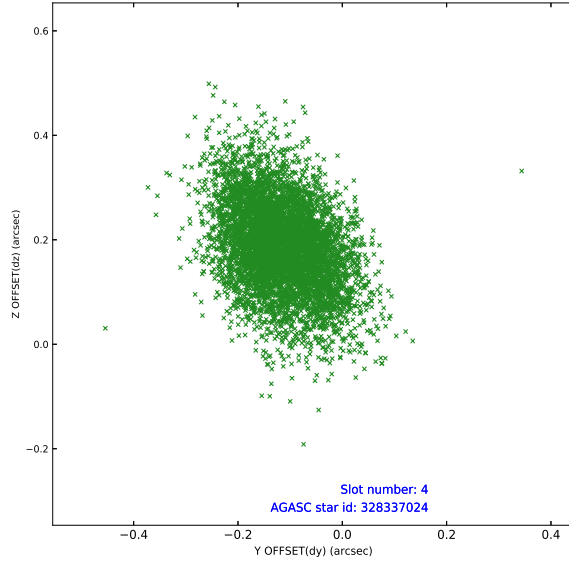
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	2963	1.000	0.222	-0.133	0.026	0.041	0.000000	0.000000	919.08	-1004
1	FID		ACIS-I-2	7.18	2962	1.000	-0.206	0.134	0.010	0.015	0.000000	0.000000	-775.62	-1009
2	FID		ACIS-I-4	7.13	2963	1.000	-0.109	0.068	0.035	0.048	0.000000	0.000000	2138.14	896
3	GUIDE	used	328336488	7.97	5923	1.000	0.024	0.223	0.126	0.211	148.615981	34.772004	-1584.04	-319
4	GUIDE	used	328337024	7.69	5925	1.000	-0.117	0.187	0.113	0.189	148.429866	34.926488	-1183.09	-990
5	GUIDE	used	328337336	6.49	5924	1.000	0.007	-0.056	0.118	0.204	148.404202	34.983812	-1158.41	-1209
6	GUIDE	used	328339200	8.79	5917	1.000	-0.127	-0.163	0.193	0.296	148.038611	34.083152	675.35	1675
7	GUIDE	used	328738624	8.30	5918	1.000	0.217	-0.182	0.130	0.220	148.160528	35.111650	-575.86	-1825

2.4 Star Slots

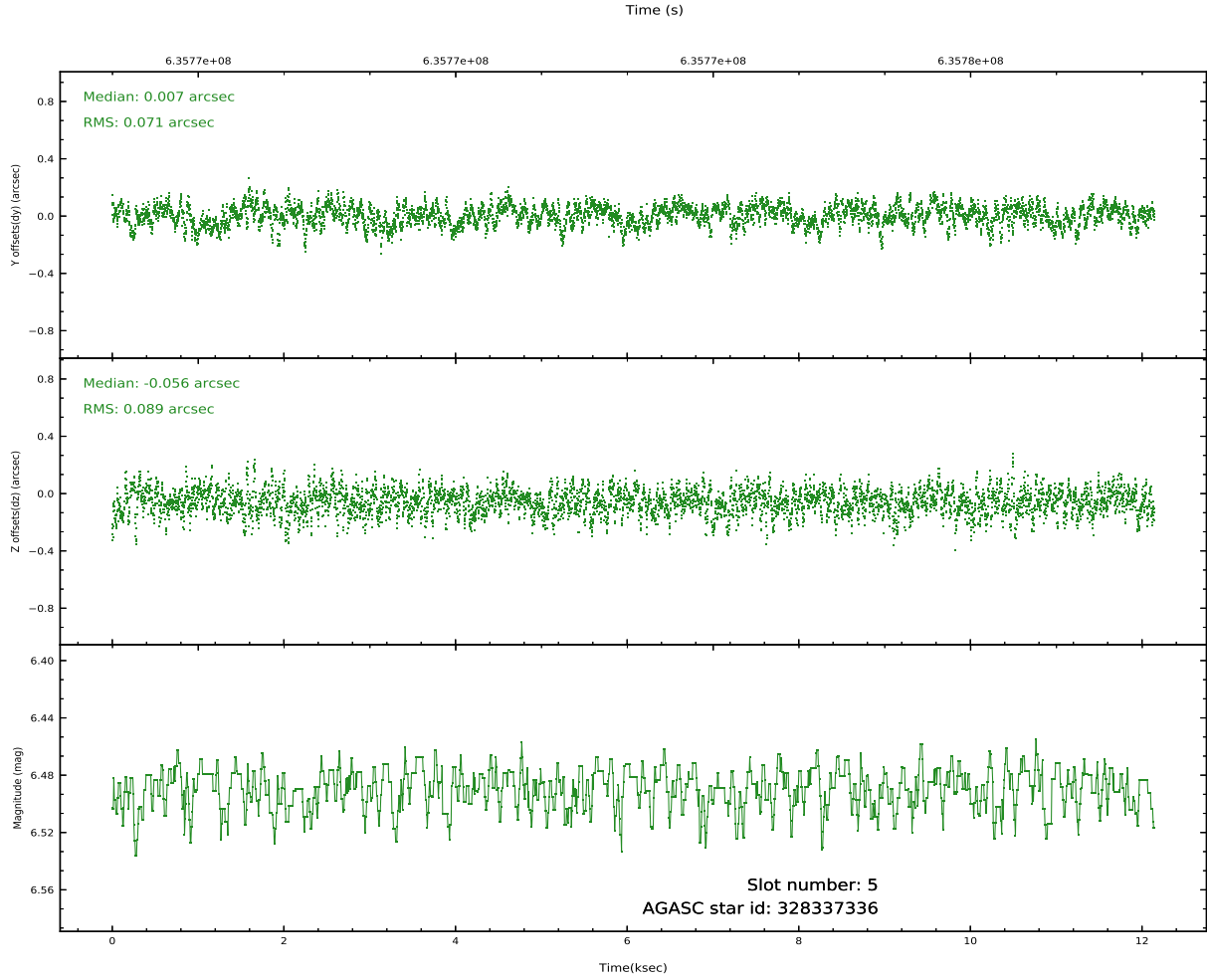
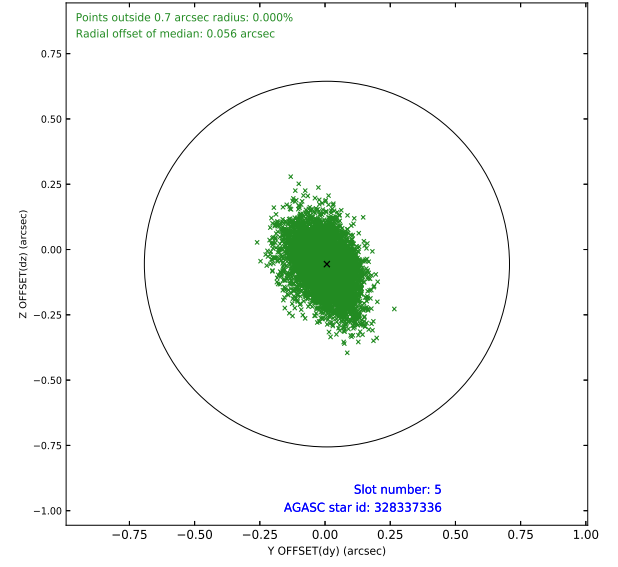
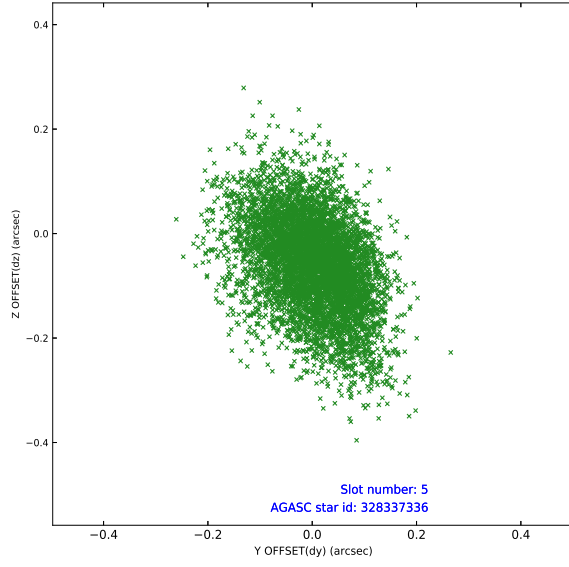
2.4.1 Slot 3



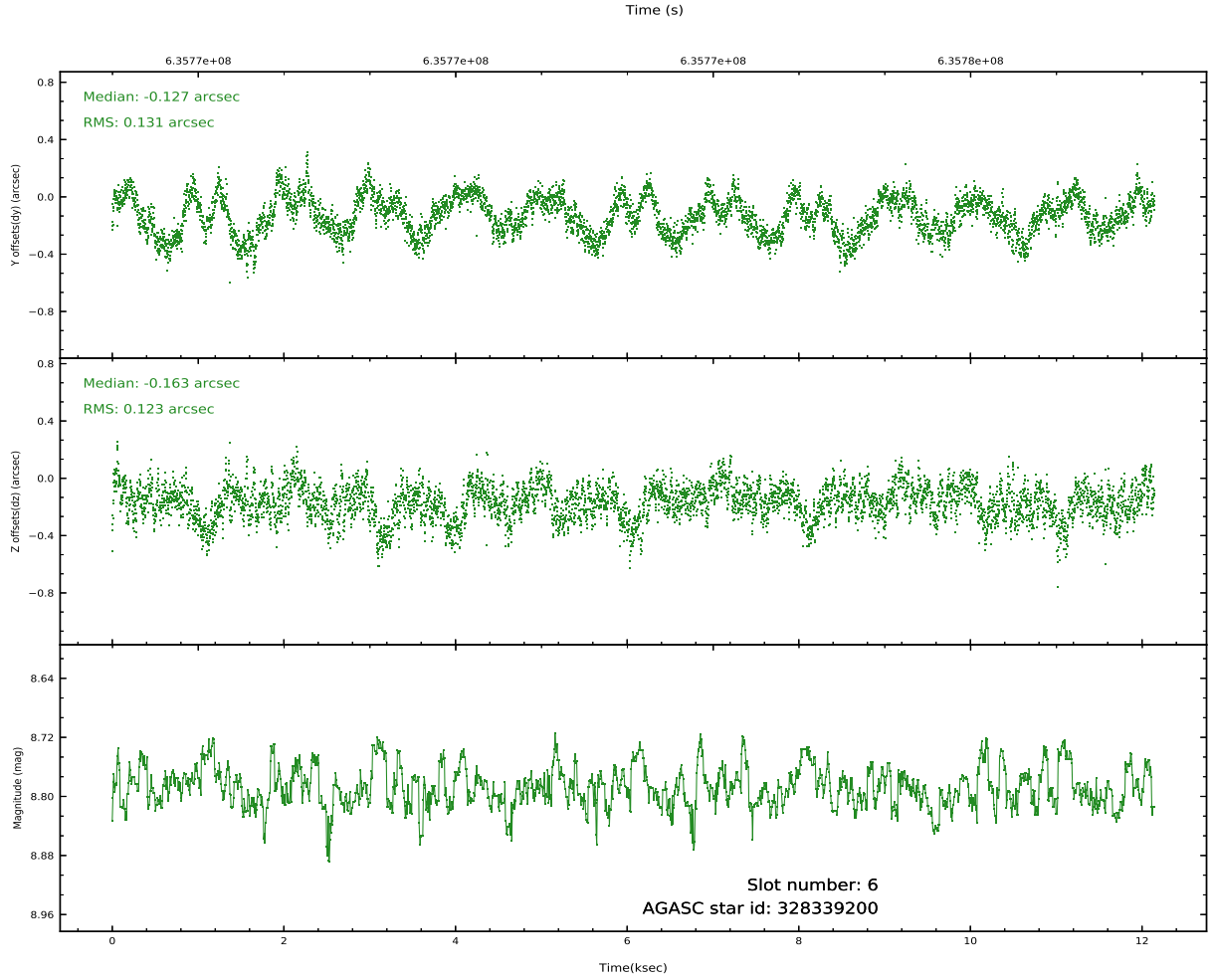
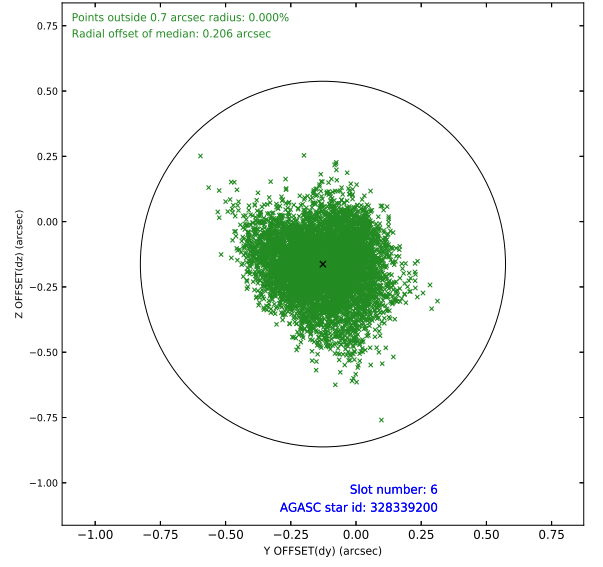
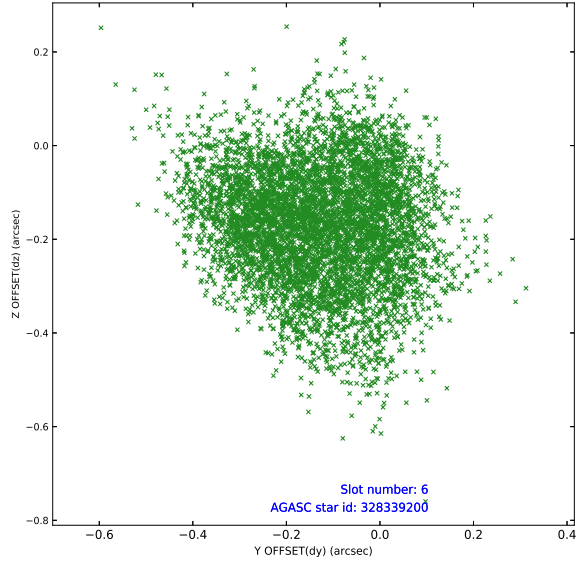
2.4.2 Slot 4



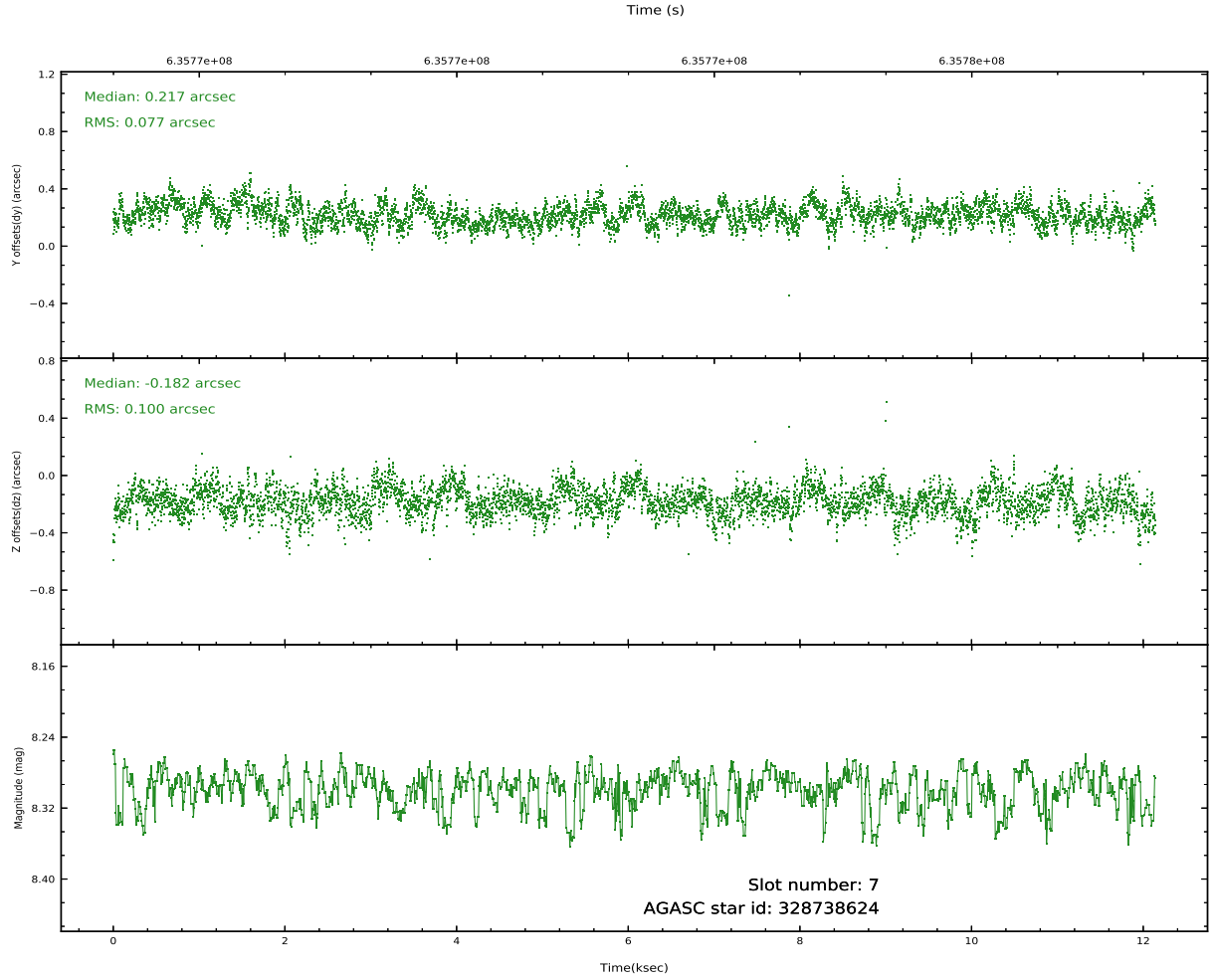
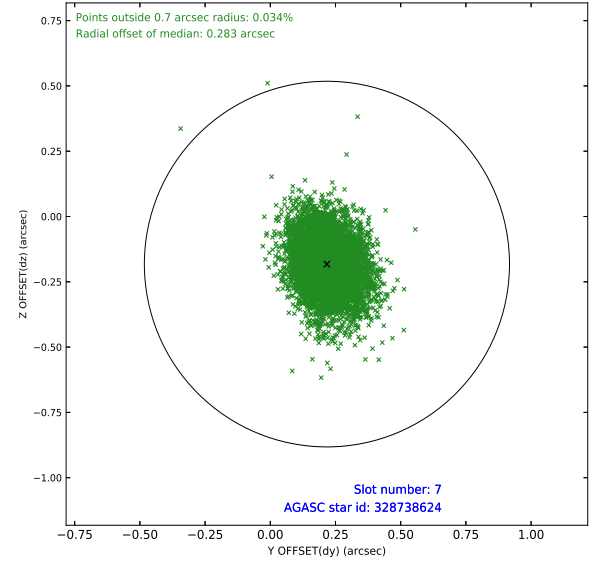
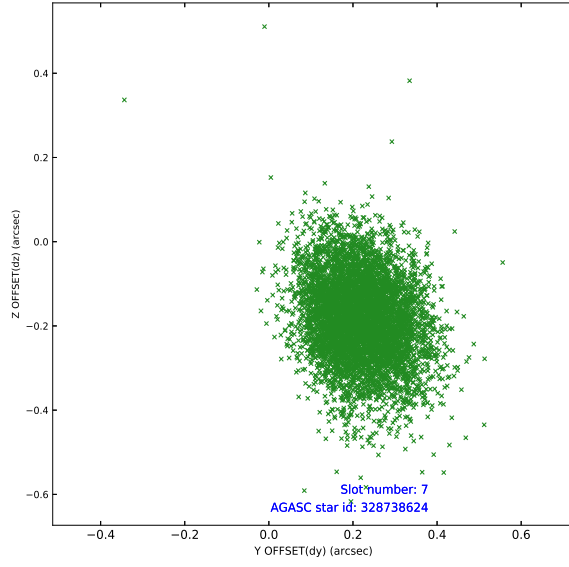
2.4.3 Slot 5



2.4.4 Slot 6

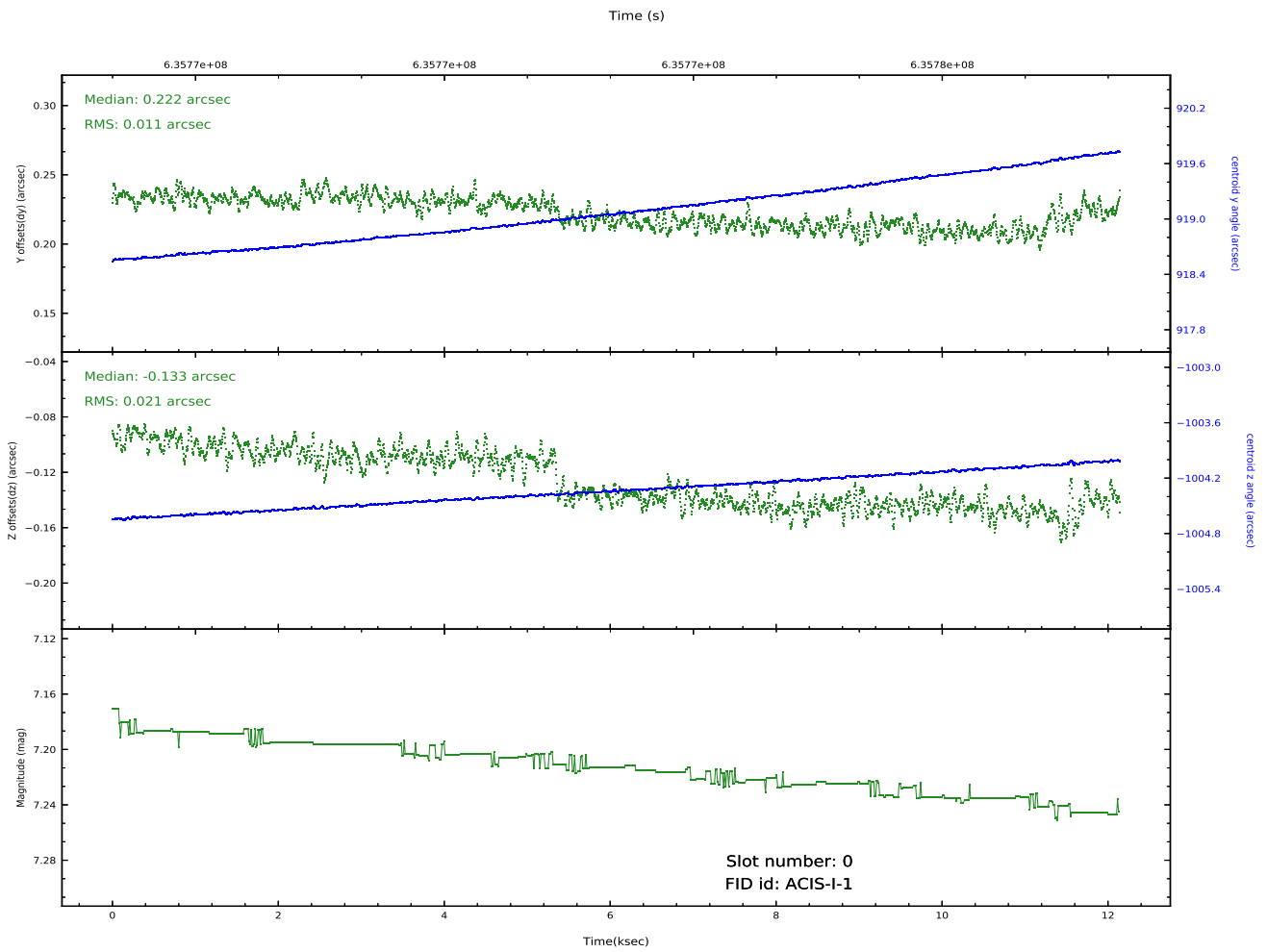
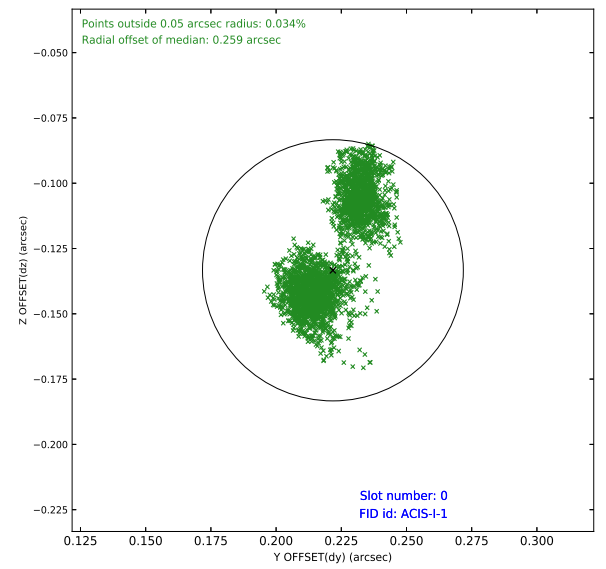
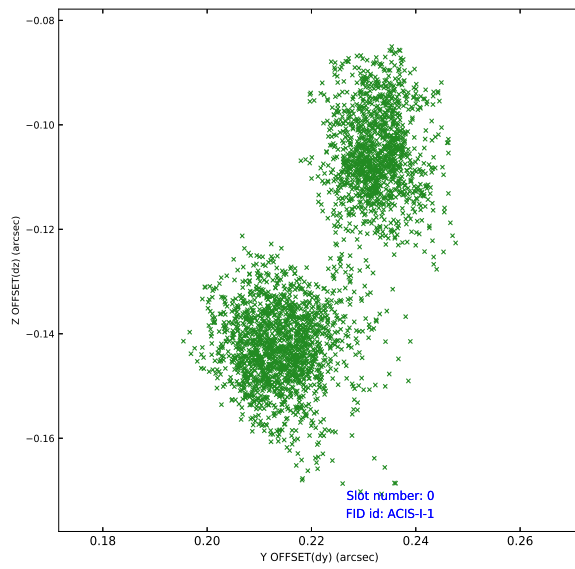


2.4.5 Slot 7

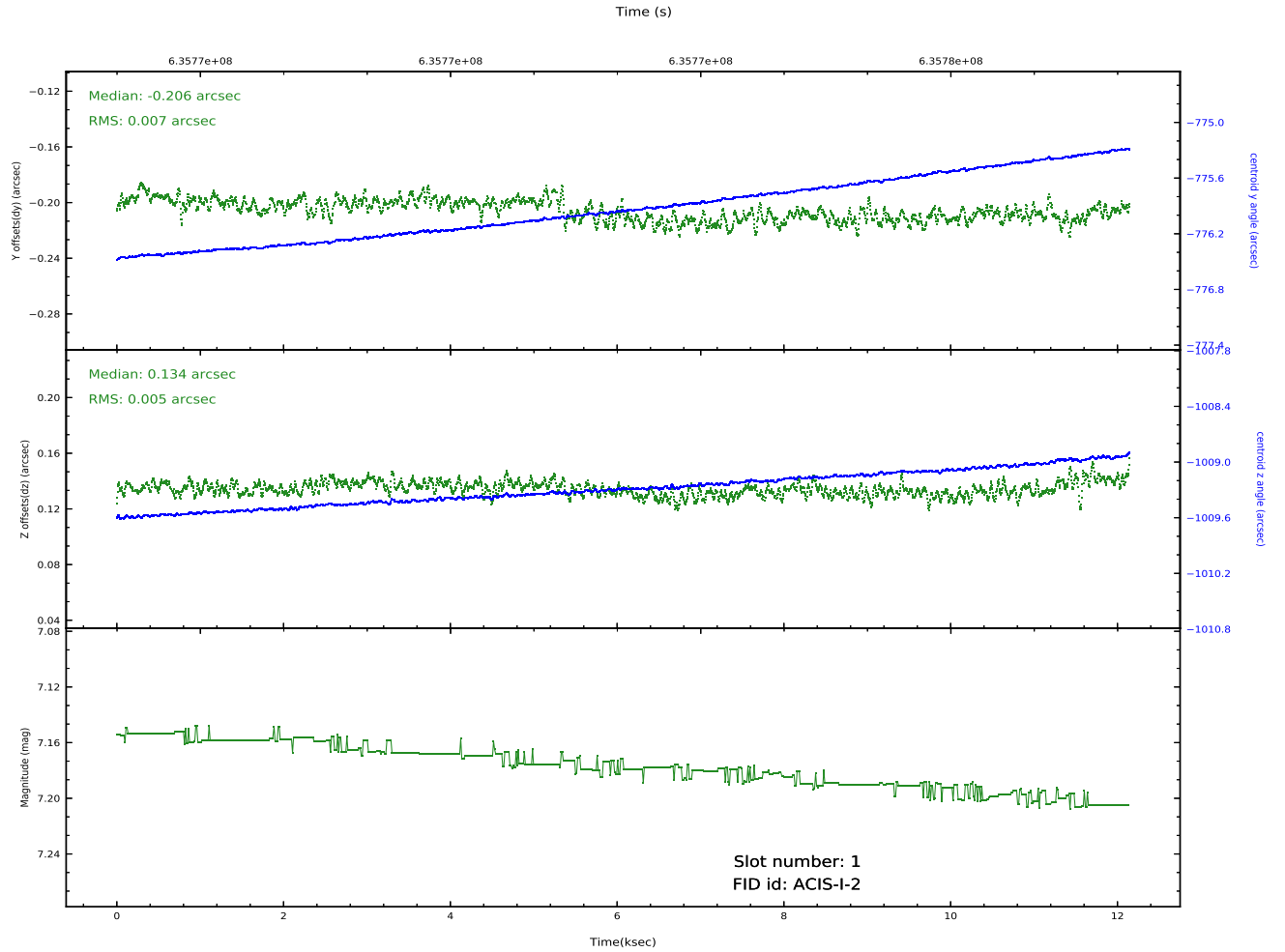
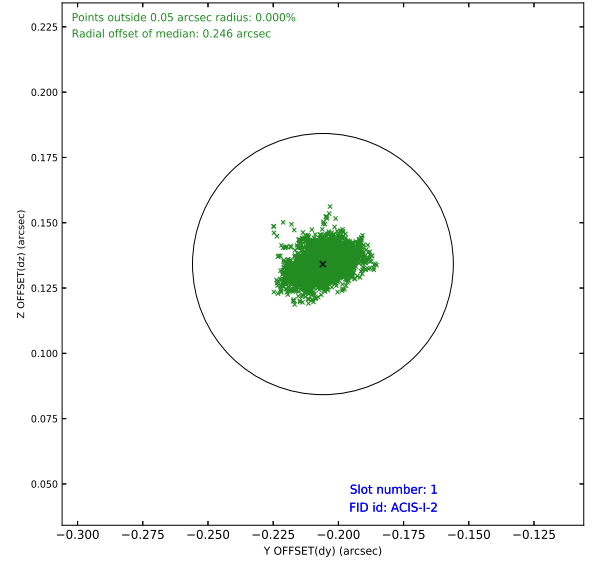
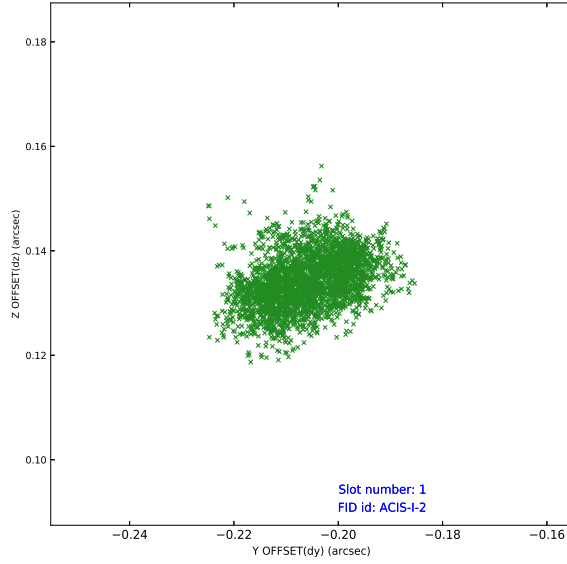


2.5 FID Slots

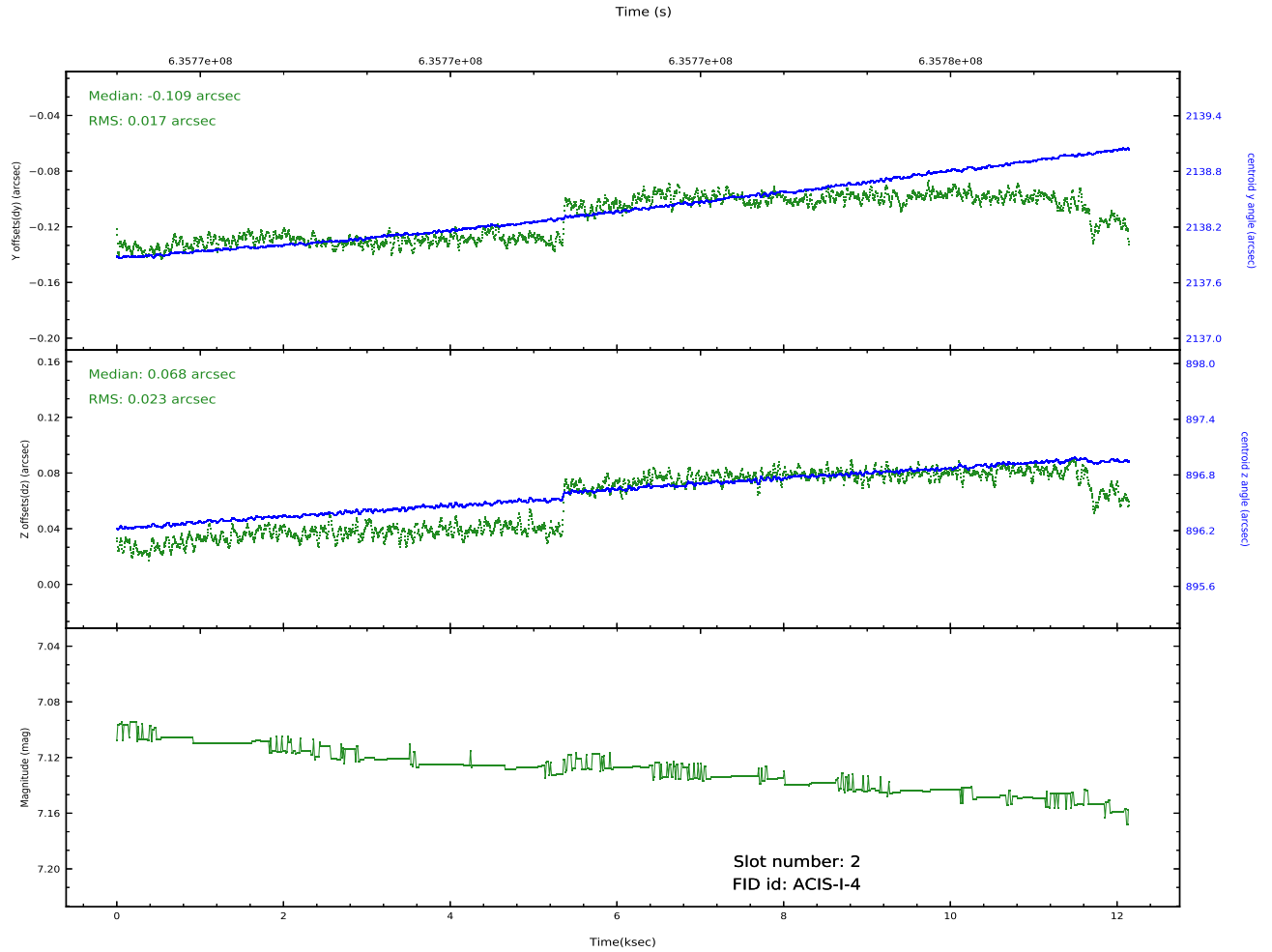
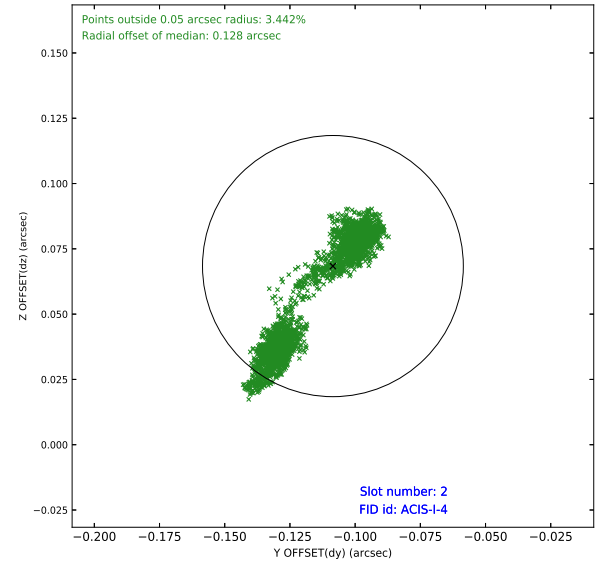
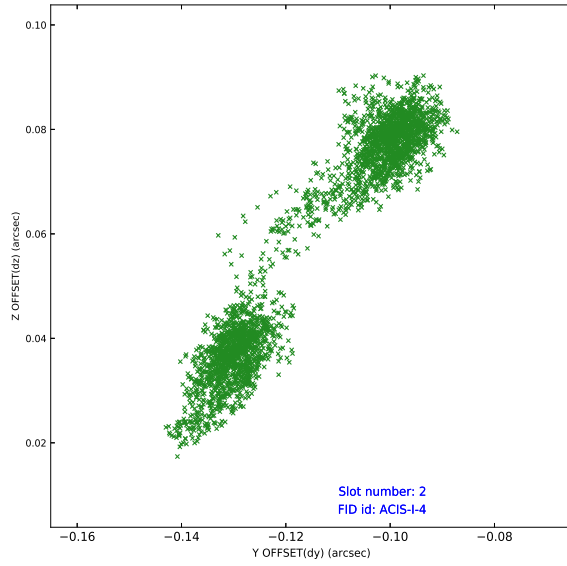
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.908992896318

A.2 Comments

Joint proposal with HST.

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Two optional chips were dropped.