

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19305 - L2 Version 2
Chandra X-Ray Center

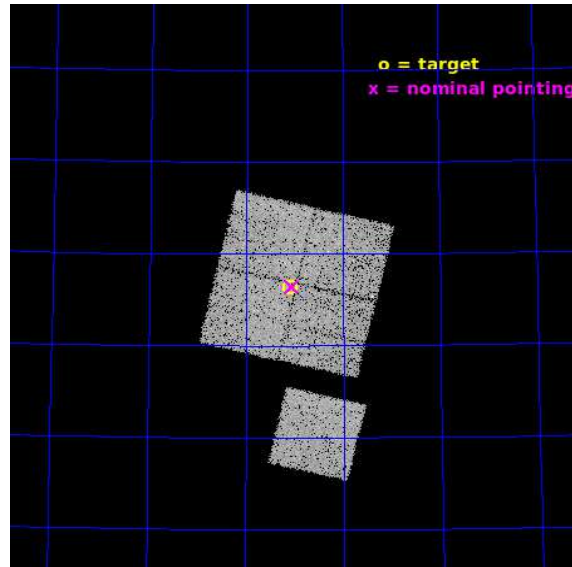
L2 Processing Date : Oct 24 2020

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1 Front

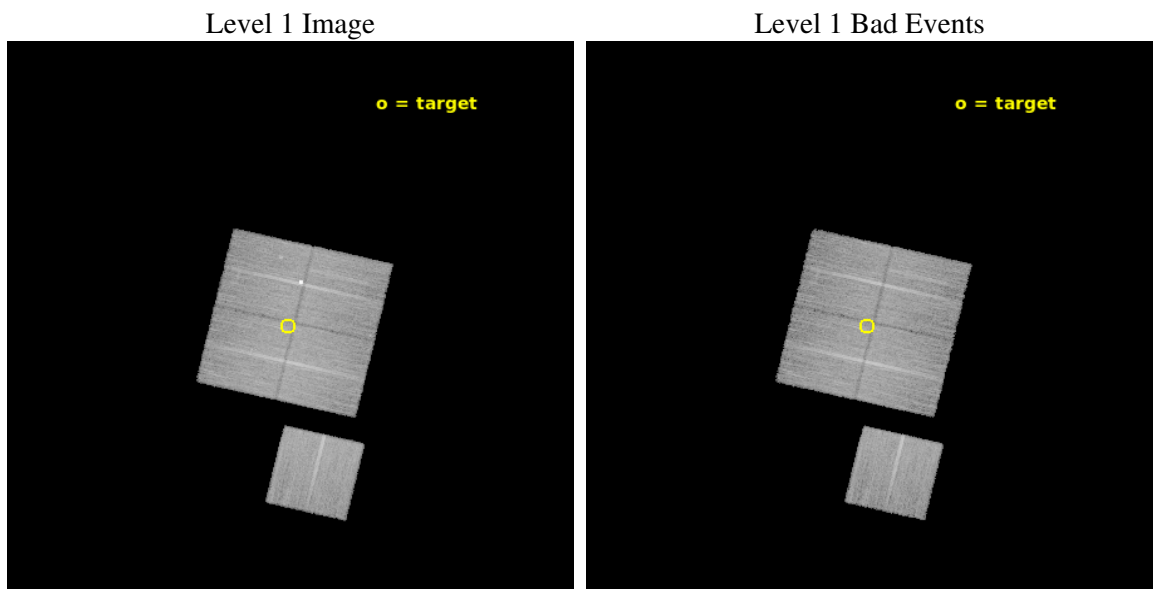
seq_num	601262	Sequence number
obs_id	19305	Observation id
title	Search for the outer boundary of the starburst galaxy: M82	Proposa
observer	KA-WAH WONG	Principal investigator
object	M82	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.27375	Observer's specified target RA [deg]
dec_targ	70.273	Observer's specified target Dec [deg]
ra_nom	148.26443861288	Nominal RA [deg]
dec_nom	70.273999246177	Nominal Dec [deg]
roll_nom	193.22457768951	Nominal Roll [deg]
revision	2	Processing version of data
ontime	16061.043633699	Sum of GTIs [s]
liveltime	15851.194274657	Livetime [s]
ontime0	16060.920513749	Sum of GTIs [s]
ontime1	16060.961553693	Sum of GTIs [s]
ontime2	16061.002593756	Sum of GTIs [s]
ontime3	16061.043633699	Sum of GTIs [s]
ontime6	16060.879473686	Sum of GTIs [s]
l2events	54859	Number of level 2 events



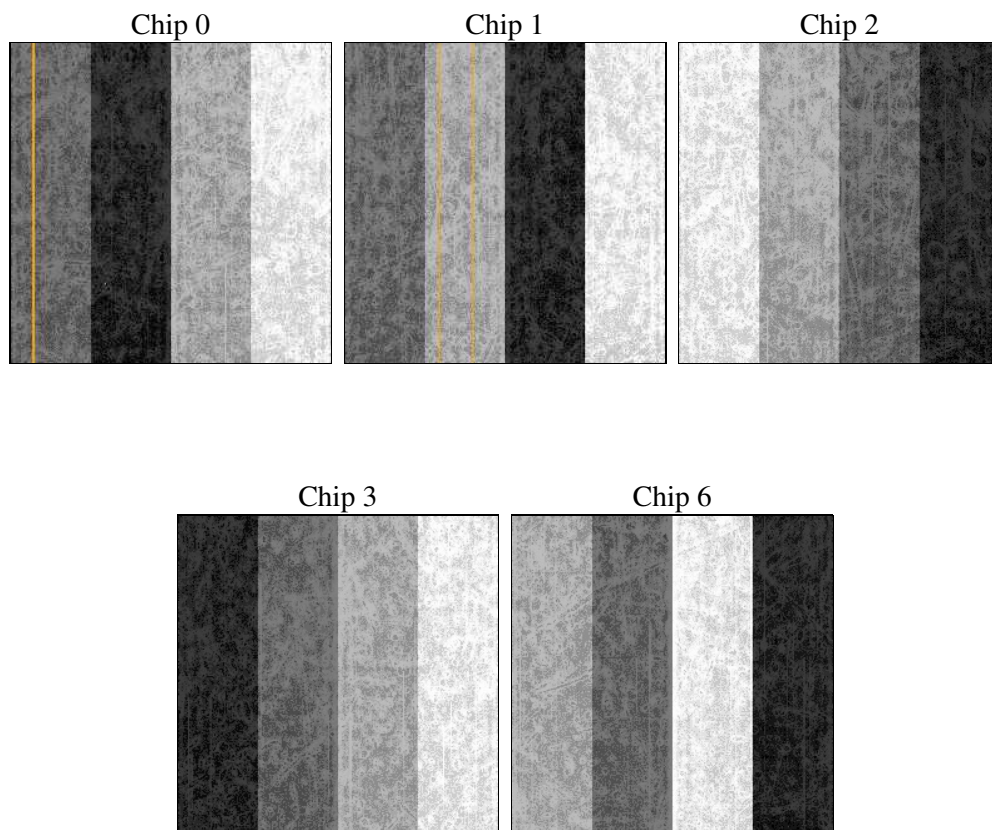
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	16061.043633699	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	16060.920513749	Sum of GTIs [s]
date	2020-10-24T17:45:36	Date and time of file creation	ontime1	16060.961553693	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	16061.002593756	Sum of GTIs [s]
			ontime3	16061.043633699	Sum of GTIs [s]
			ontime6	16060.879473686	Sum of GTIs [s]
			l1events	617453	Number of level 1 events

2.1.4 Events

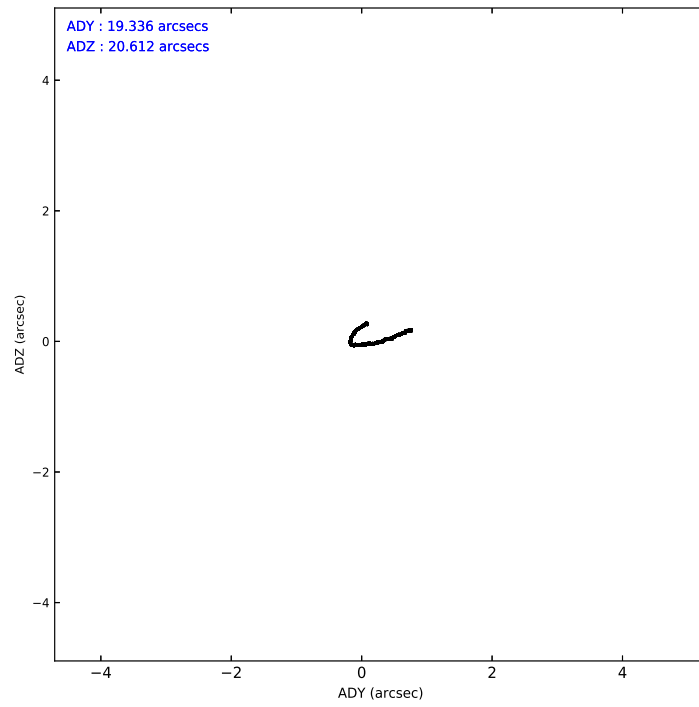
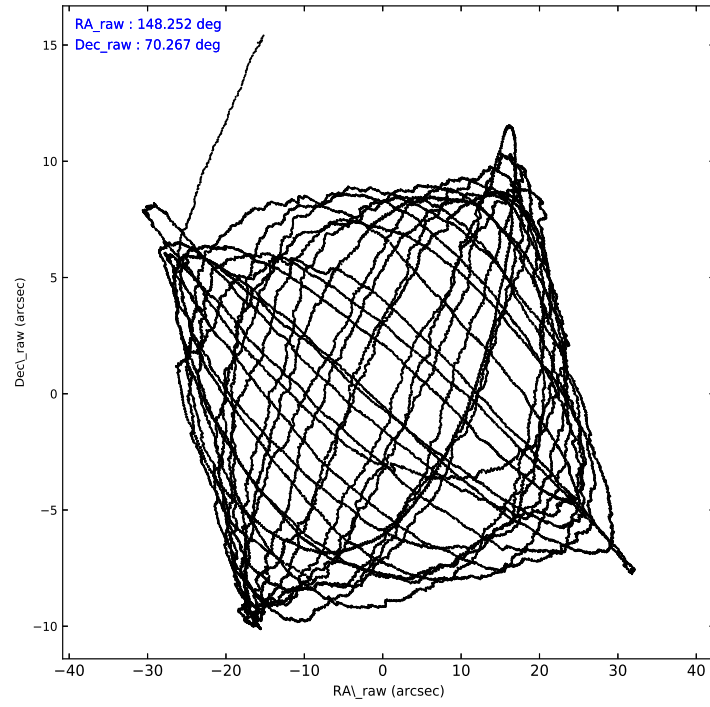
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	116743	118630	130689	121155	130236
rejected events	103649	99479	118471	108851	116955
rejected %	88%	83%	90%	89%	89%

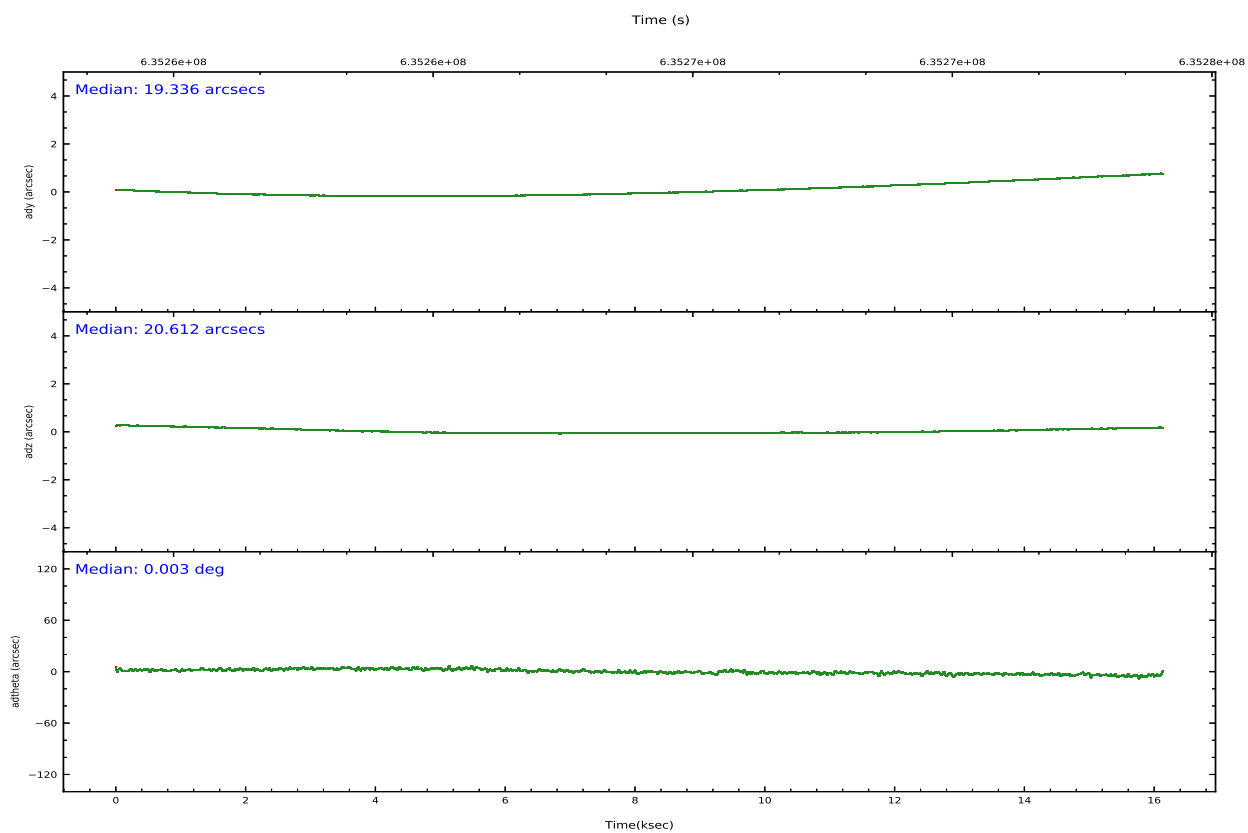
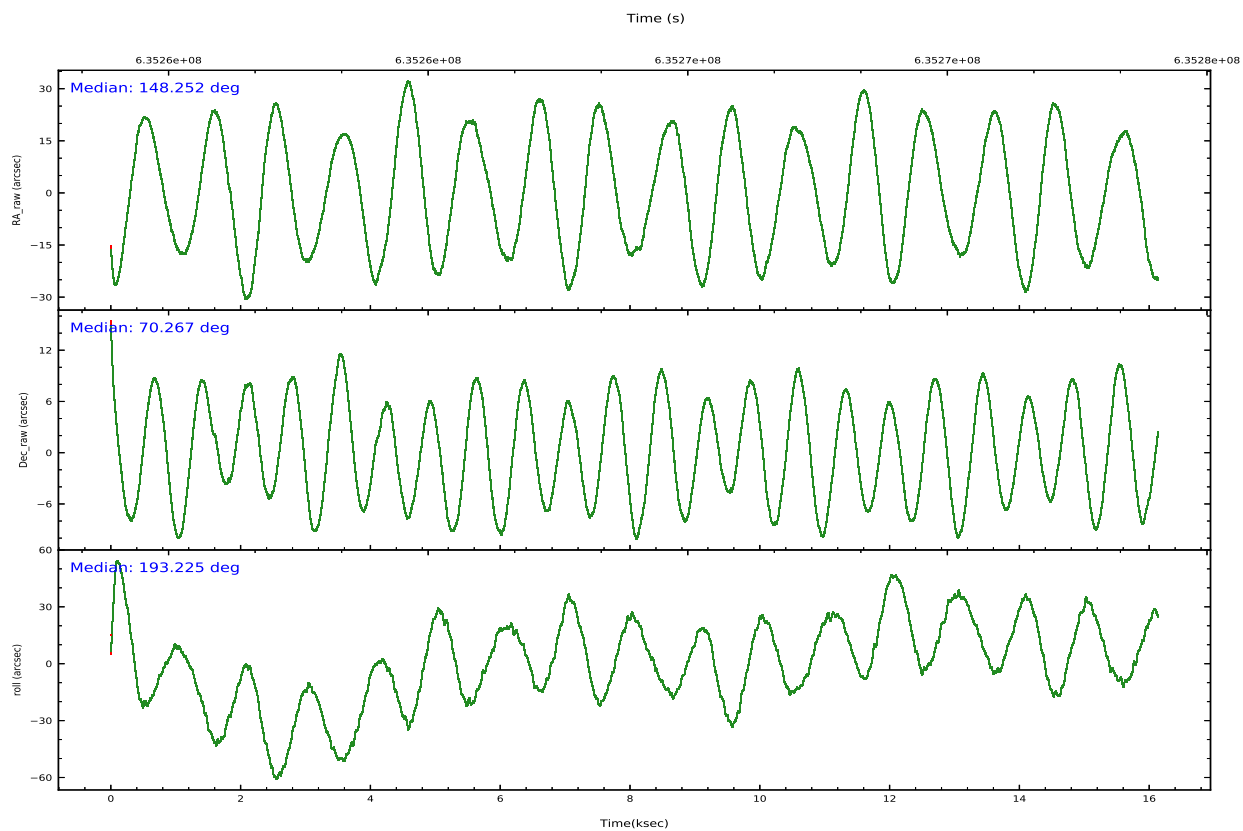
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4403	9400	4220	4240	3937
	3%	7%	3%	3%	3%
grade 1 events	57	102	61	60	56
	0%	0%	0%	0%	0%
grade 2 events	3320	3700	3038	2712	3488
	2%	3%	2%	2%	2%
grade 3 events	1301	1229	1260	1330	1191
	1%	1%	0%	1%	0%
grade 4 events	1158	1219	1217	1296	1140
	0%	1%	0%	1%	0%
grade 5 events	4764	4829	4558	5485	5090
	4%	4%	3%	4%	3%
grade 6 events	2917	3611	2486	2729	3527
	2%	3%	1%	2%	2%
grade 7 events	98823	94540	113849	103303	111807
	84%	79%	87%	85%	85%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	148.311890	148.26443861288	CCD I2 on	Y	Y
[deg] Pointing Dec	70.285879	70.273999246177	CCD I3 on	Y	Y
[deg] Pointing Roll	192.964096	193.22457768951	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	635259247.184000	635257959.41874	CCD S5 on	N	N
Observation start date	2018-02-17T12:52:58	2018-02-17T12:32:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	635275247.184000	635276013.2573	On-chip summing requested	N	N
Observation end date	2018-02-17T17:19:38	2018-02-17T17:33:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



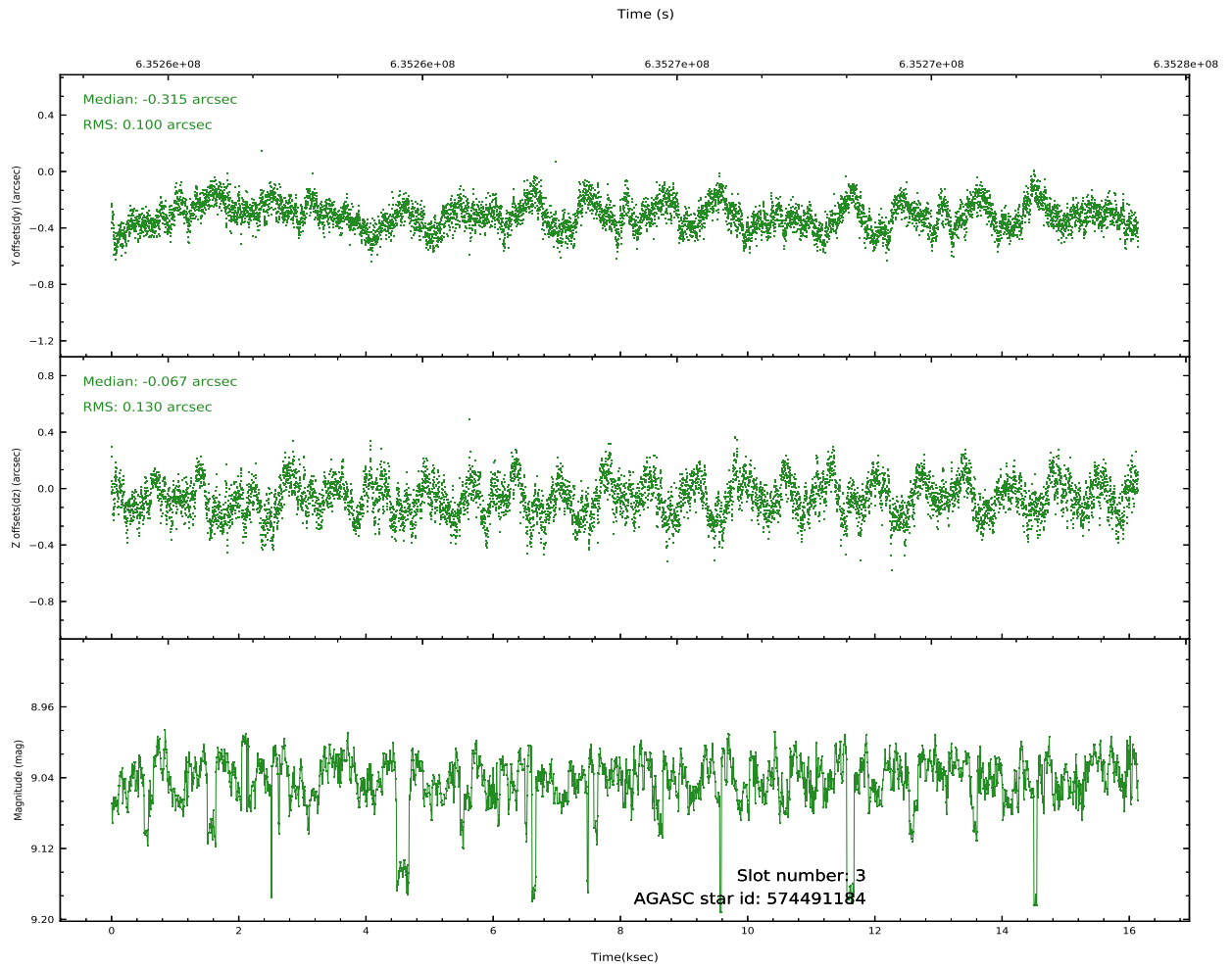
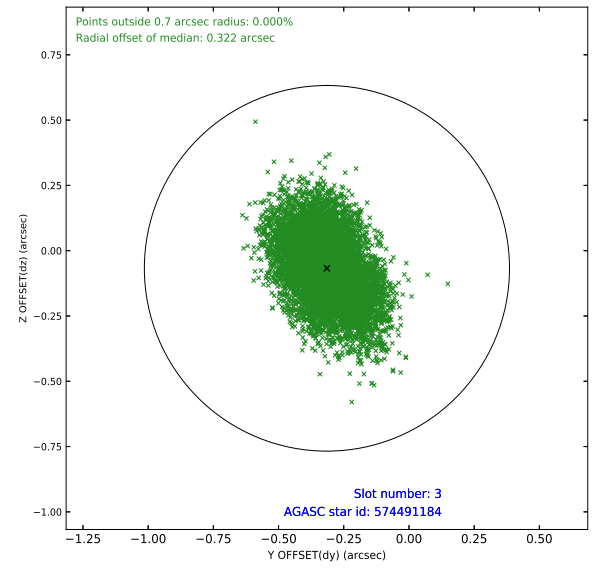
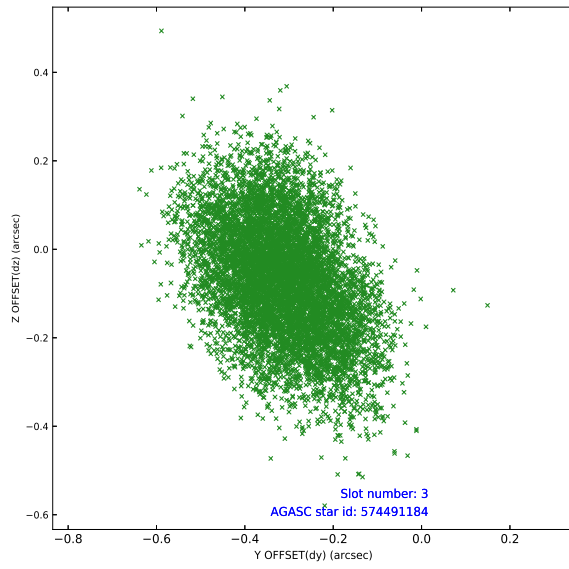


Slot Statistics

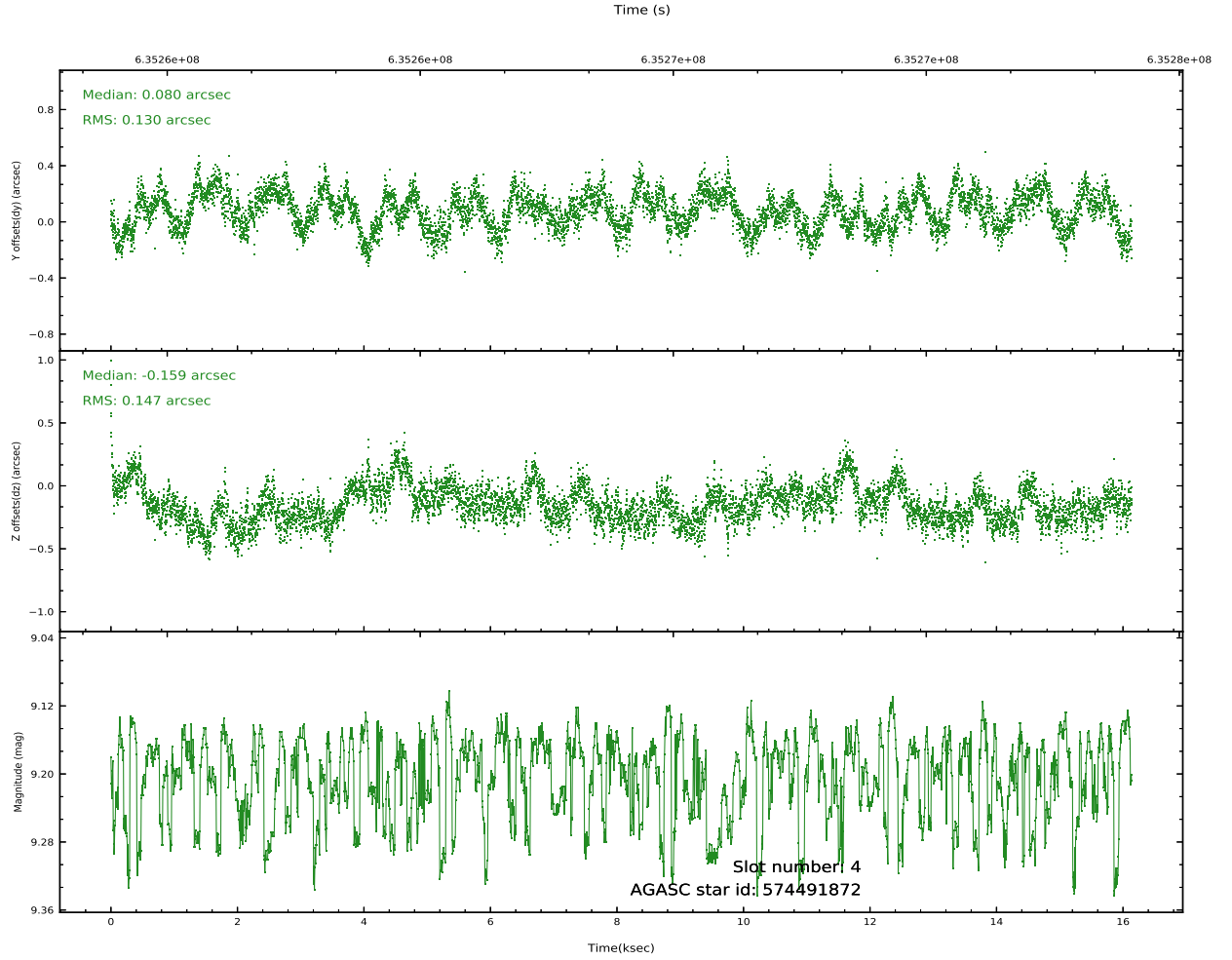
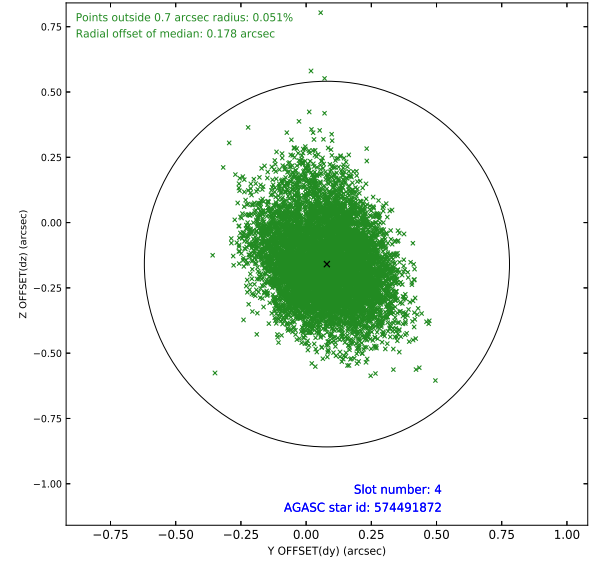
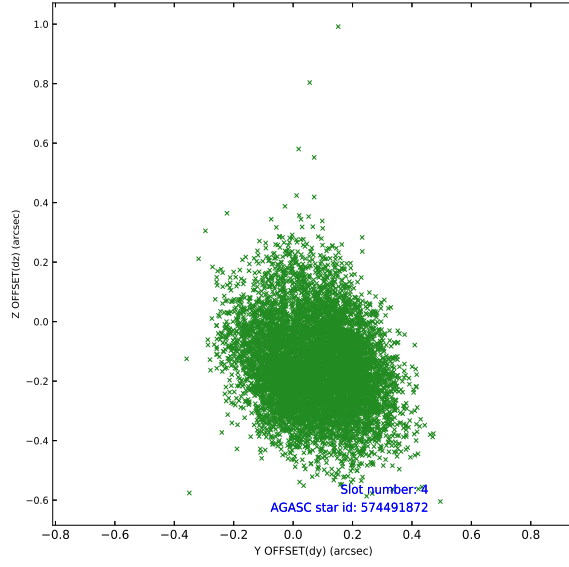
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	3937	1.000	0.005	-0.101	0.013	0.023	0.000000	0.000000	919.83	-844
1	FID		ACIS-I-2	7.13	3937	1.000	-0.084	0.063	0.010	0.016	0.000000	0.000000	-774.20	-850
2	FID		ACIS-I-4	7.17	3936	1.000	-0.019	0.105	0.009	0.015	0.000000	0.000000	2139.73	1055
3	GUIDE	used	574491184	9.04	7864	1.000	-0.315	-0.067	0.177	0.285	148.582453	69.768699	89.00	1889
4	GUIDE	used	574491872	9.20	7862	1.000	0.080	-0.159	0.208	0.337	147.207613	69.765453	1759.43	1511
5	GUIDE	used	574885216	8.47	7869	1.000	0.109	0.140	0.150	0.254	147.834547	70.411352	460.22	-570
6	GUIDE	used	574886464	9.71	7858	1.000	-0.170	0.076	0.240	0.391	149.898674	70.203982	-1824.68	697
7	GUIDE	used	574886496	8.46	7865	1.000	0.303	0.005	0.119	0.210	148.945563	70.041136	-561.89	1029

2.4 Star Slots

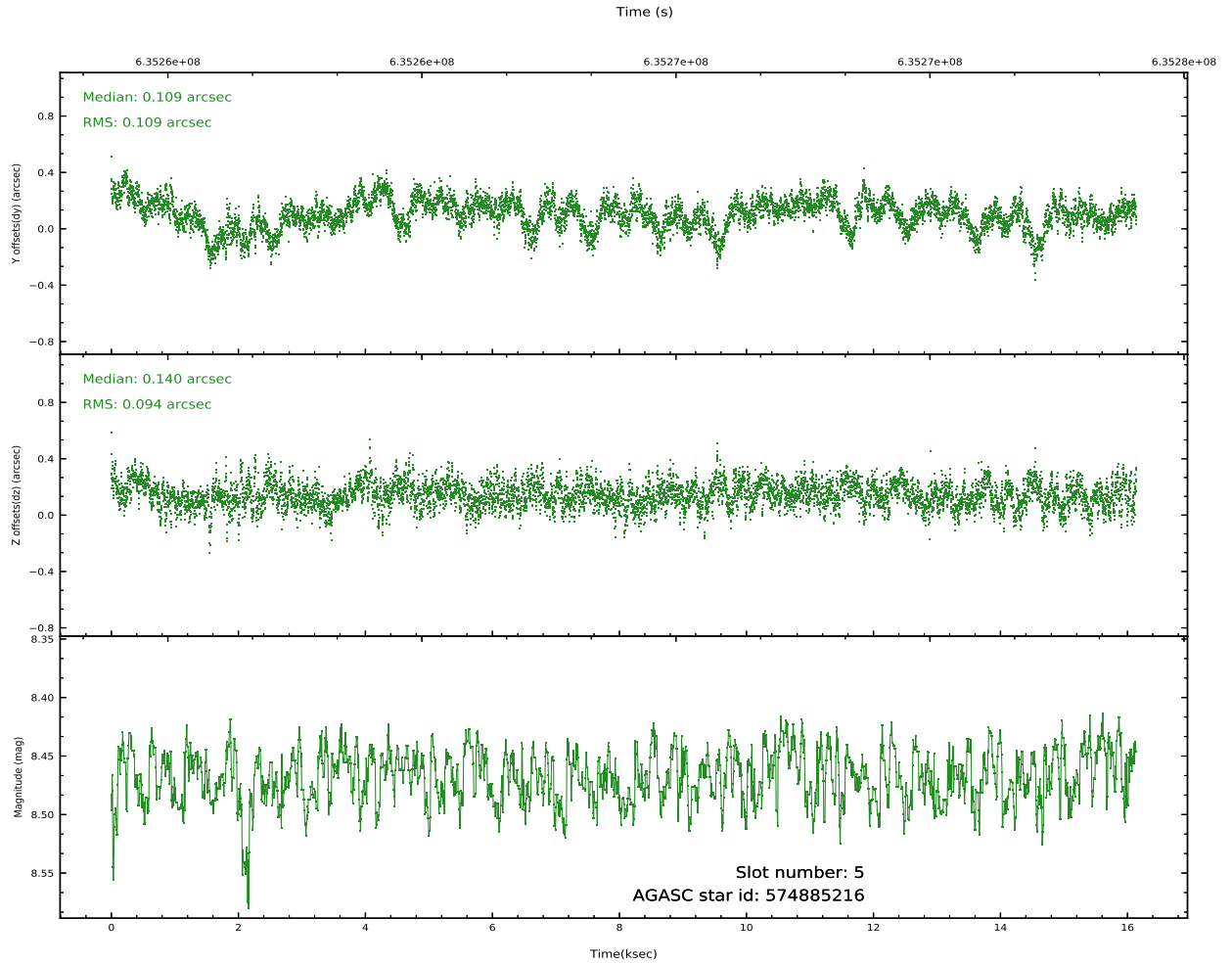
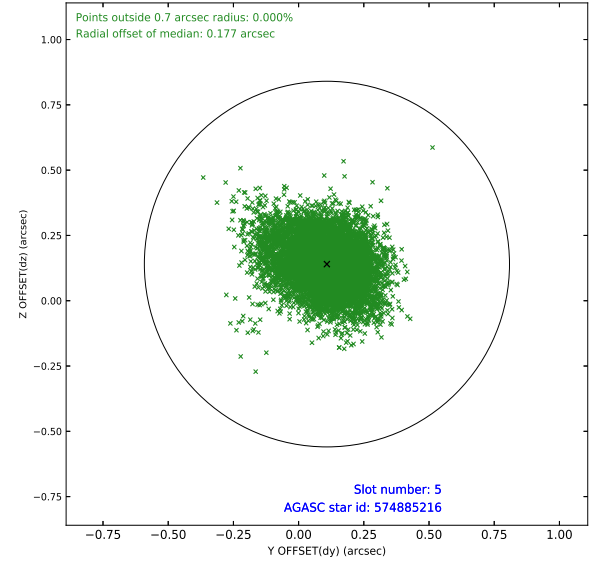
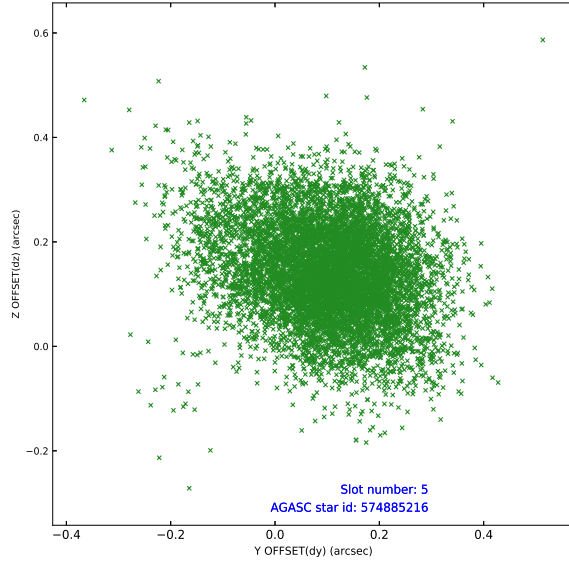
2.4.1 Slot 3



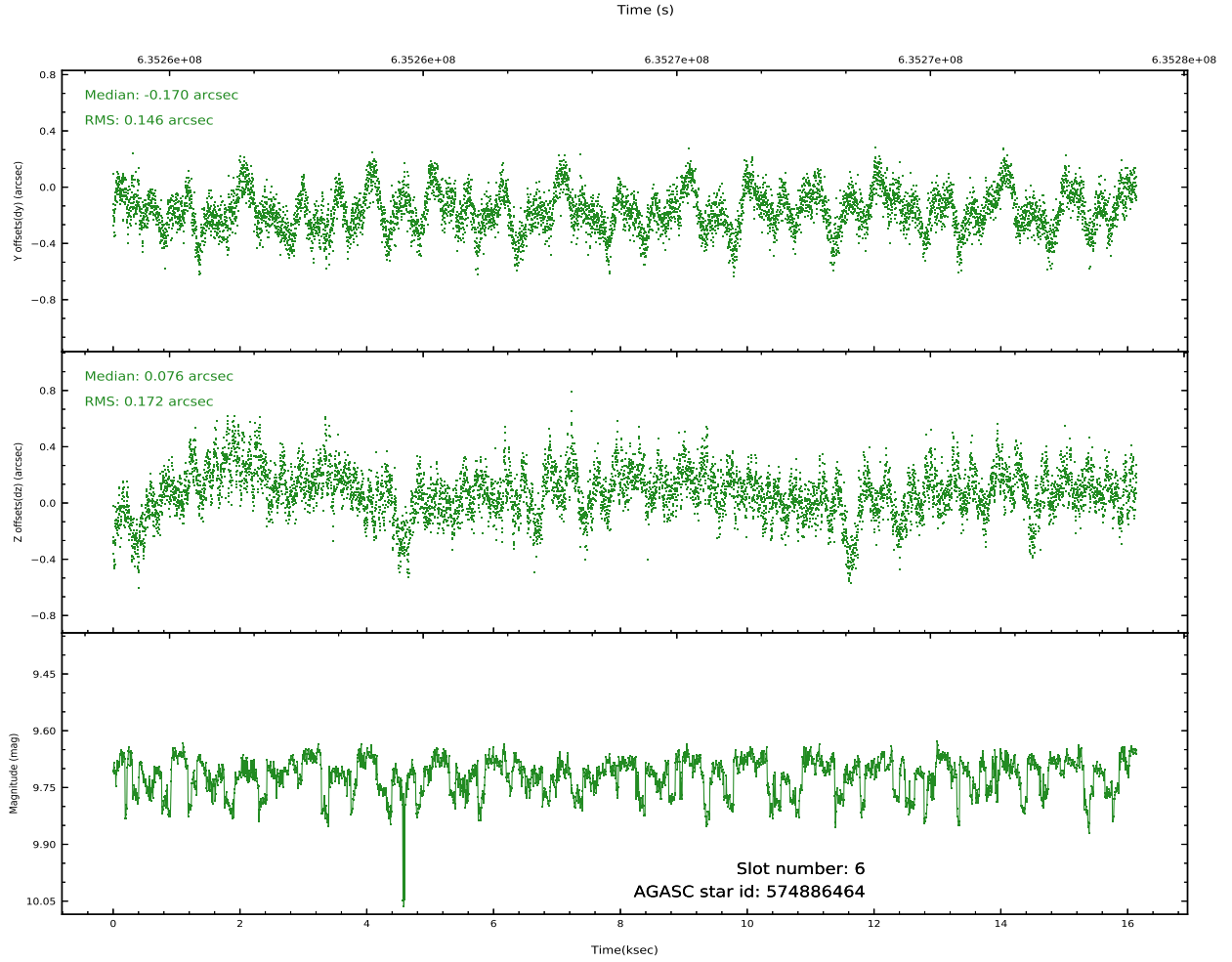
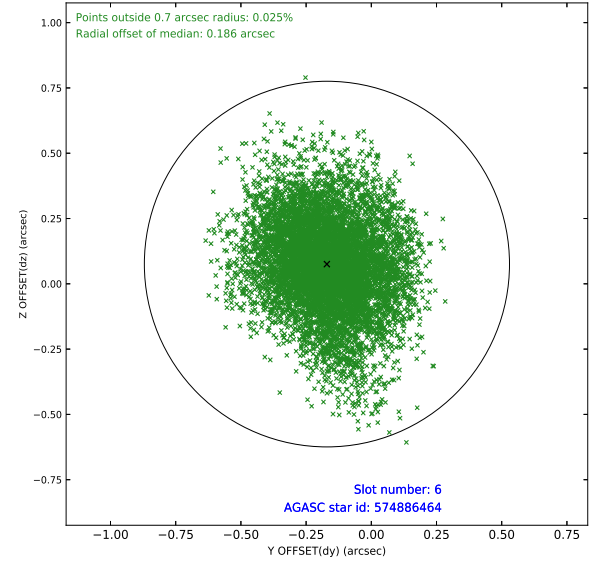
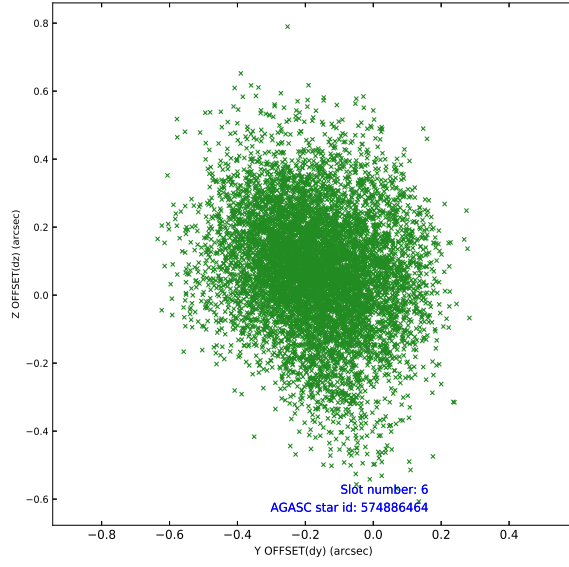
2.4.2 Slot 4



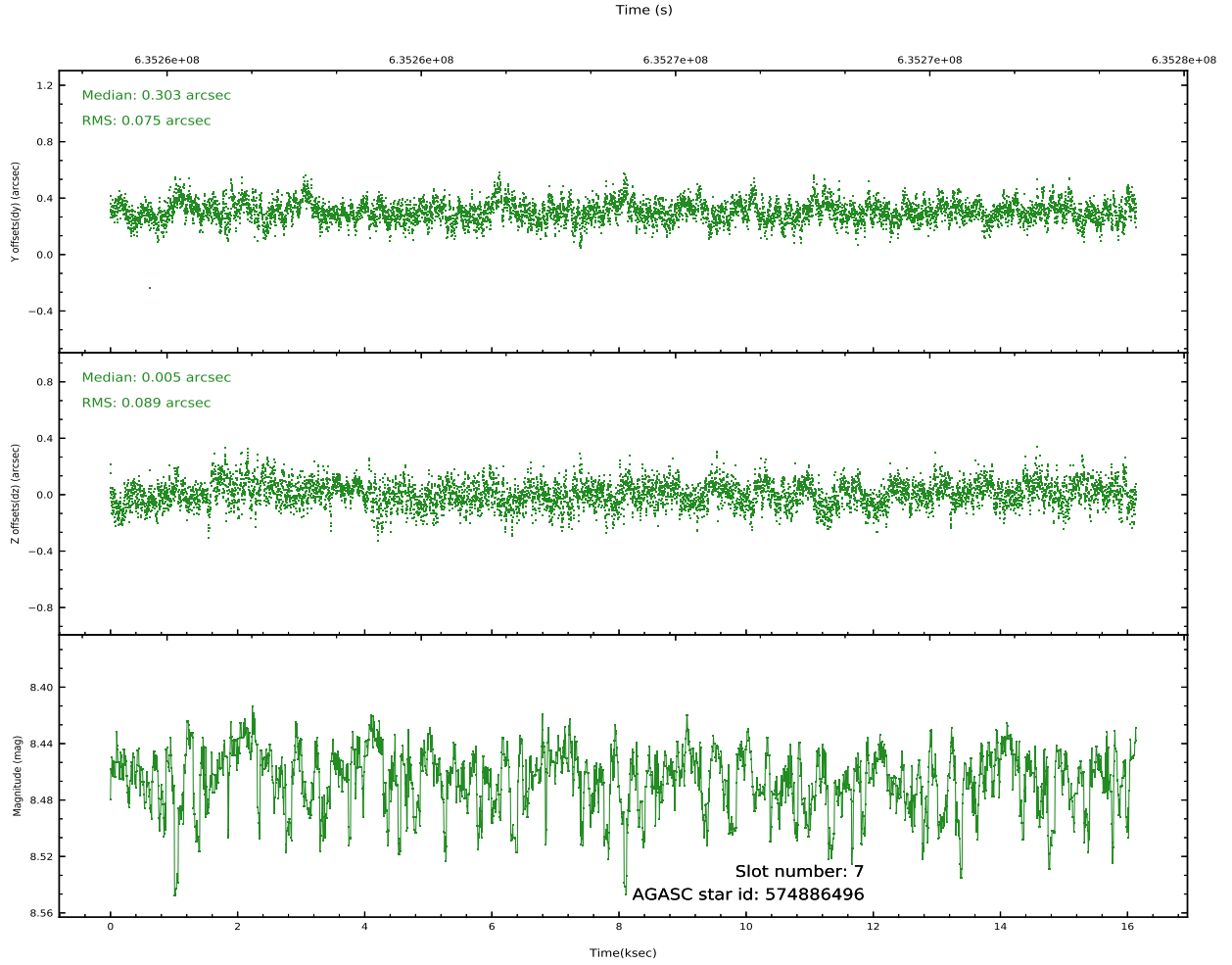
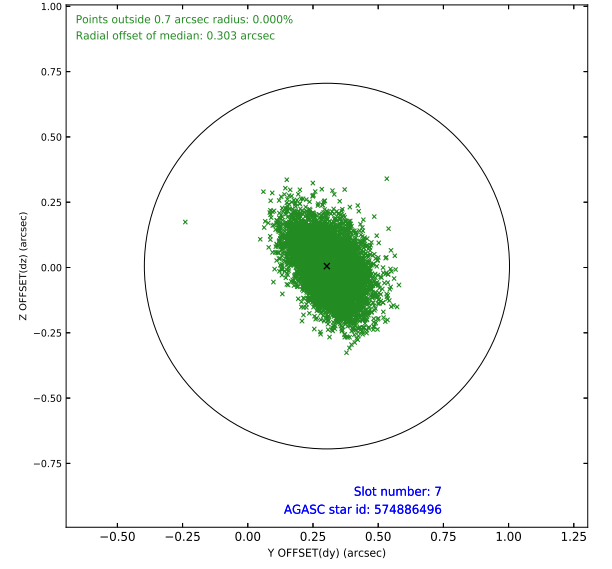
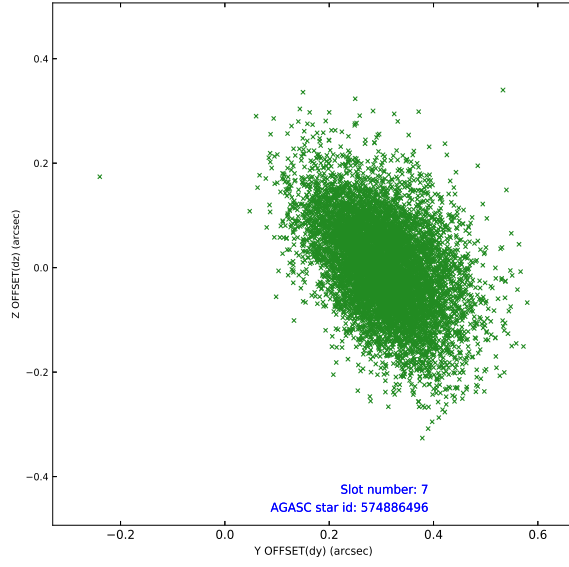
2.4.3 Slot 5



2.4.4 Slot 6

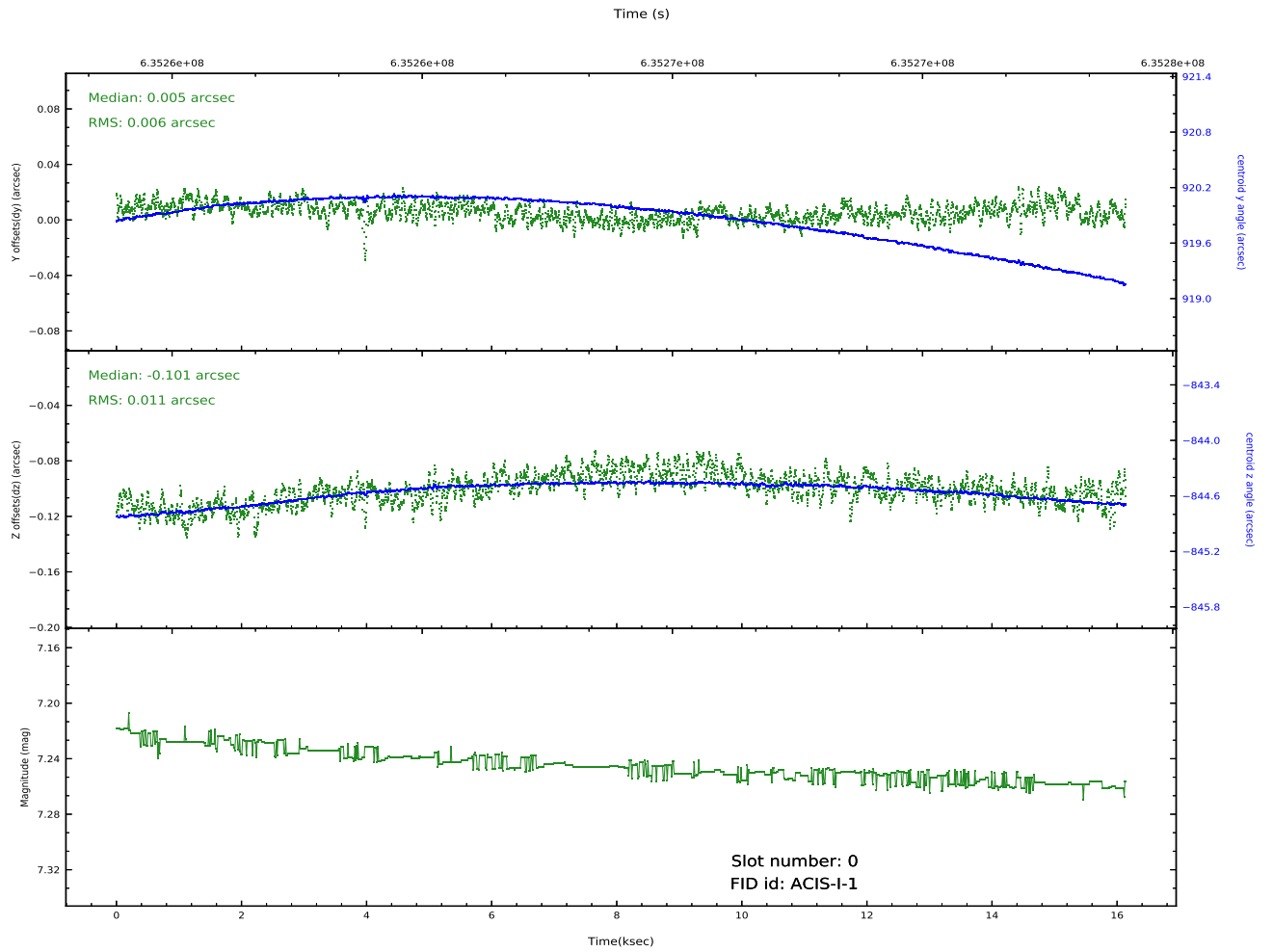
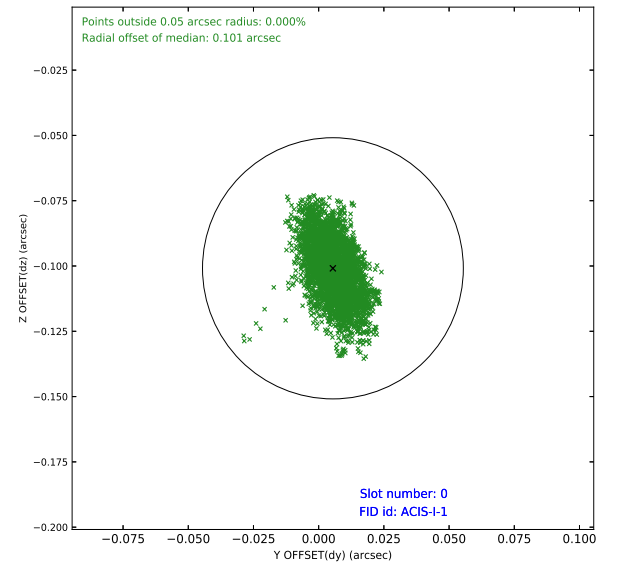
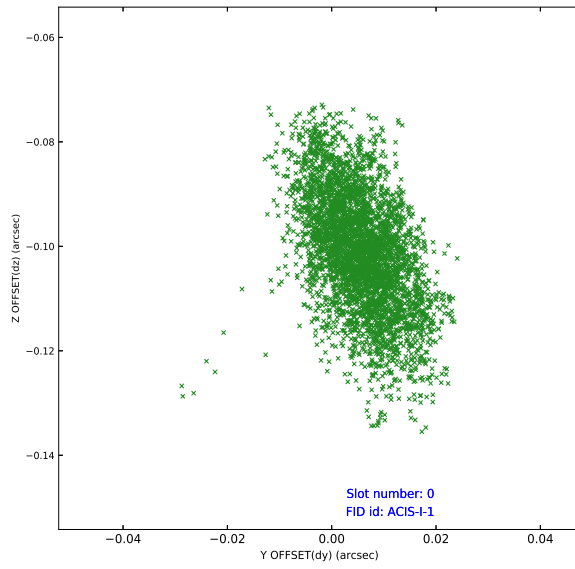


2.4.5 Slot 7

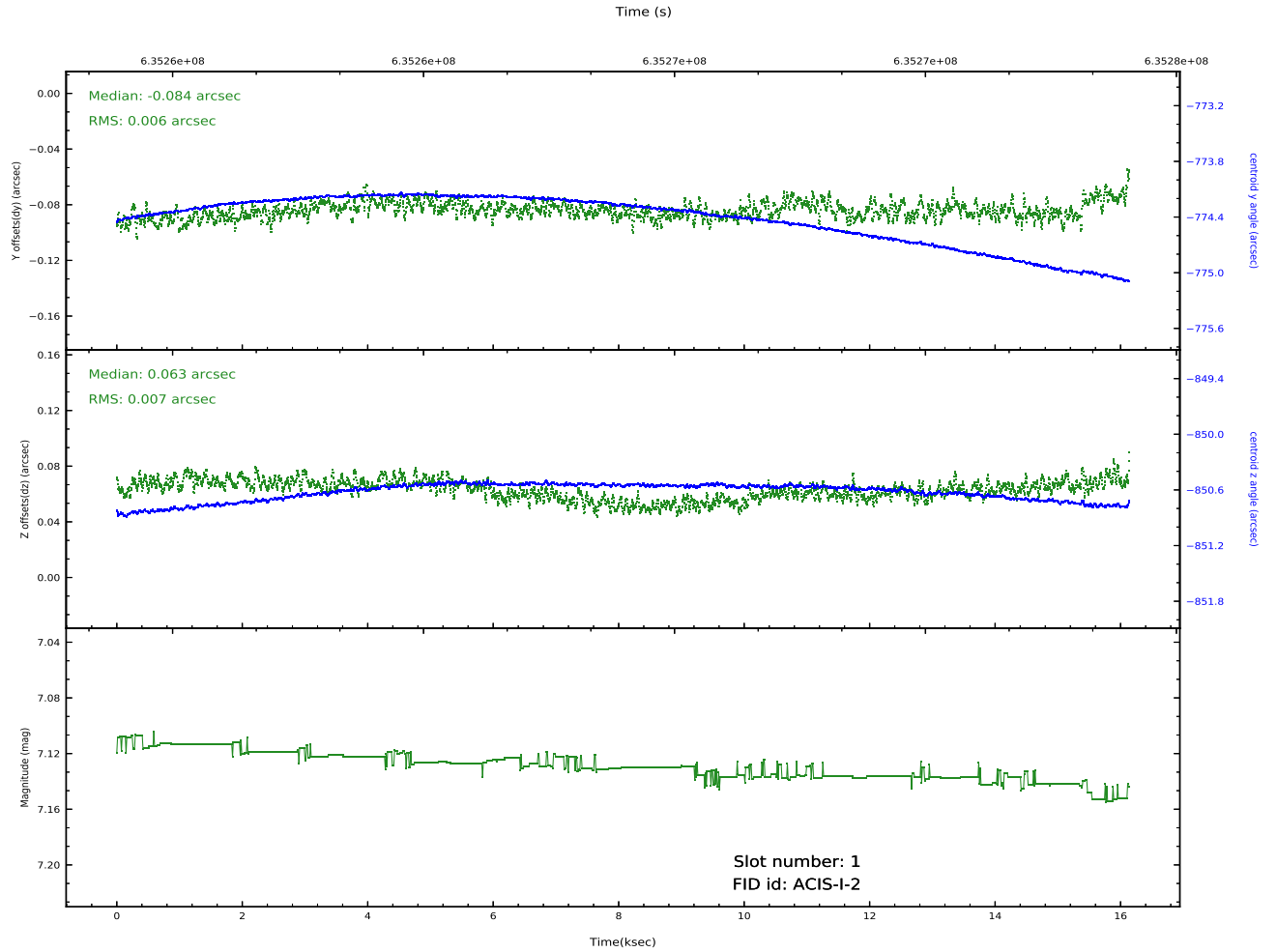
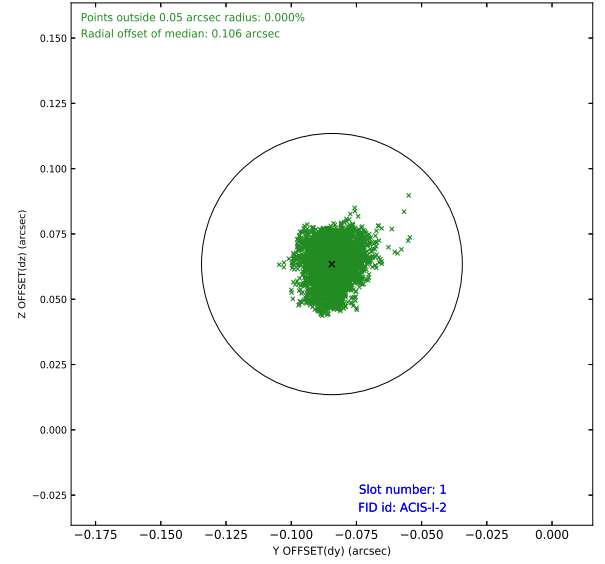
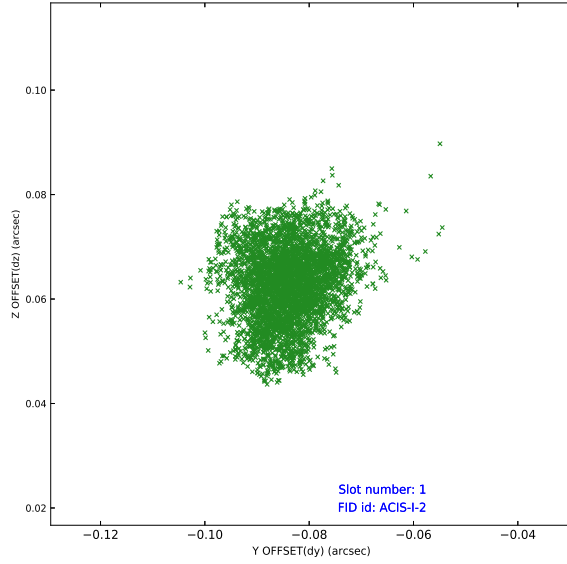


2.5 FID Slots

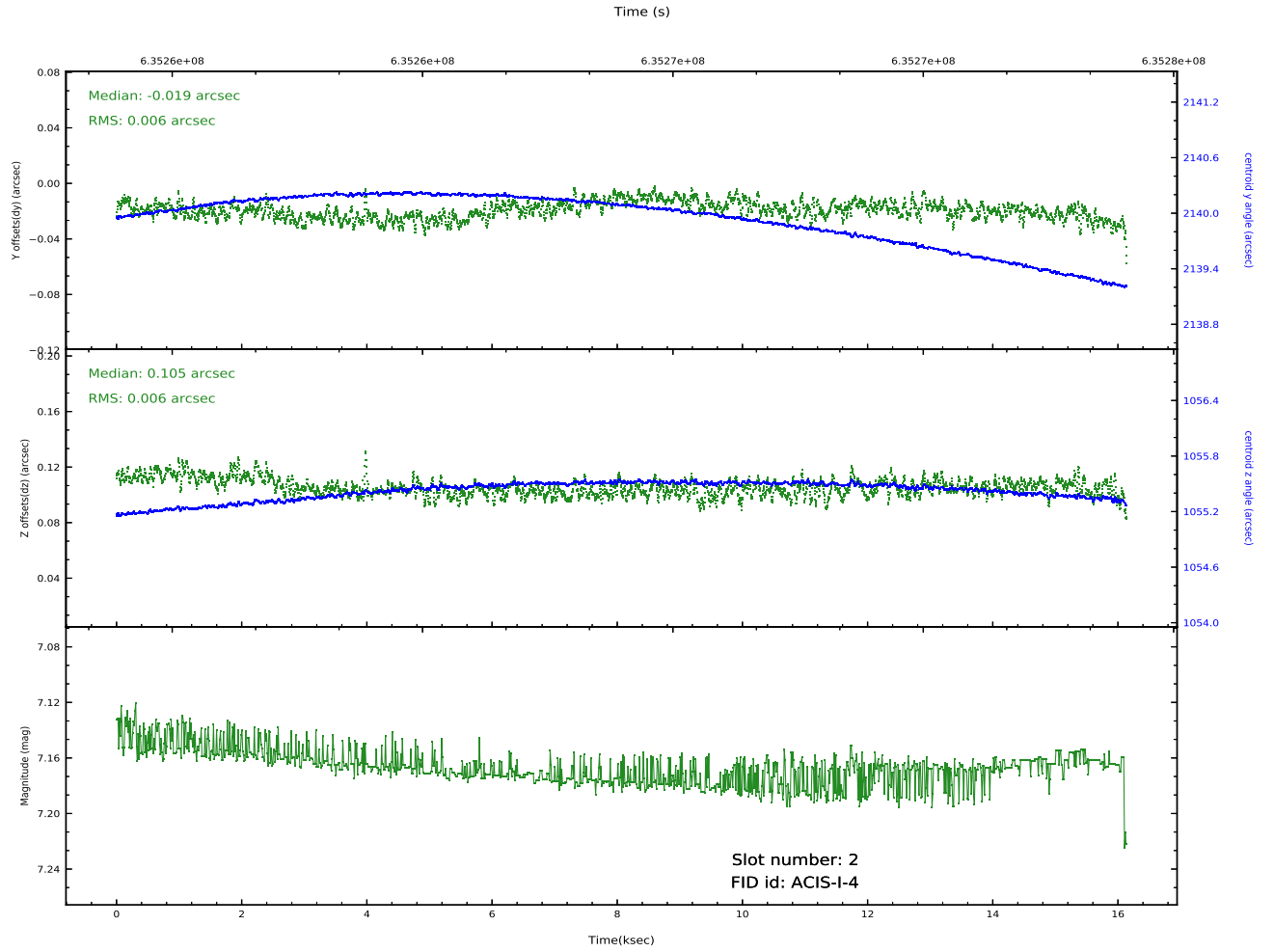
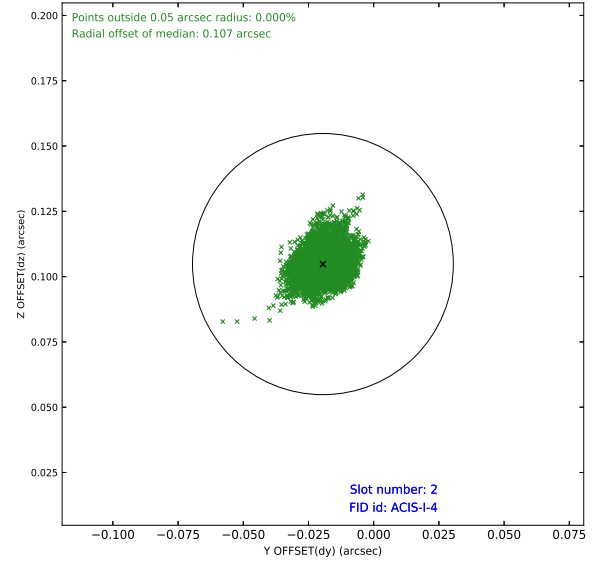
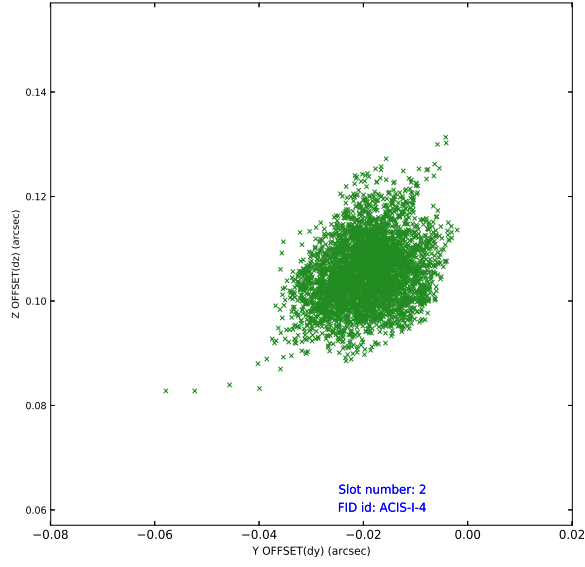
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.061043636084

A.2 Comments

Roll preference met.