

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20281 - L2 Version 2
Chandra X-Ray Center

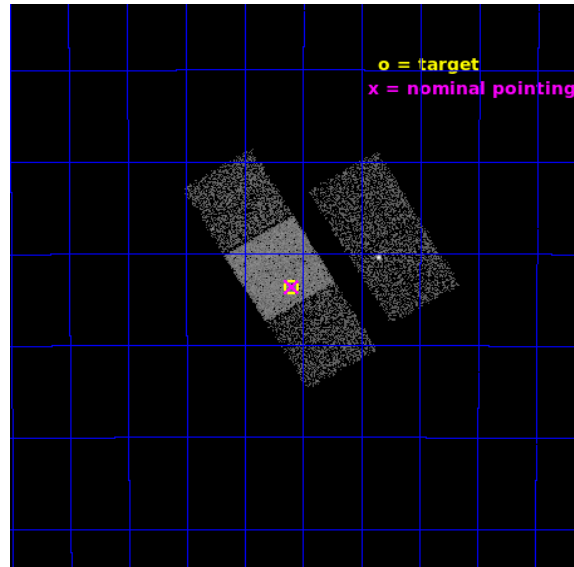
L2 Processing Date : Oct 25 2020

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1 Front

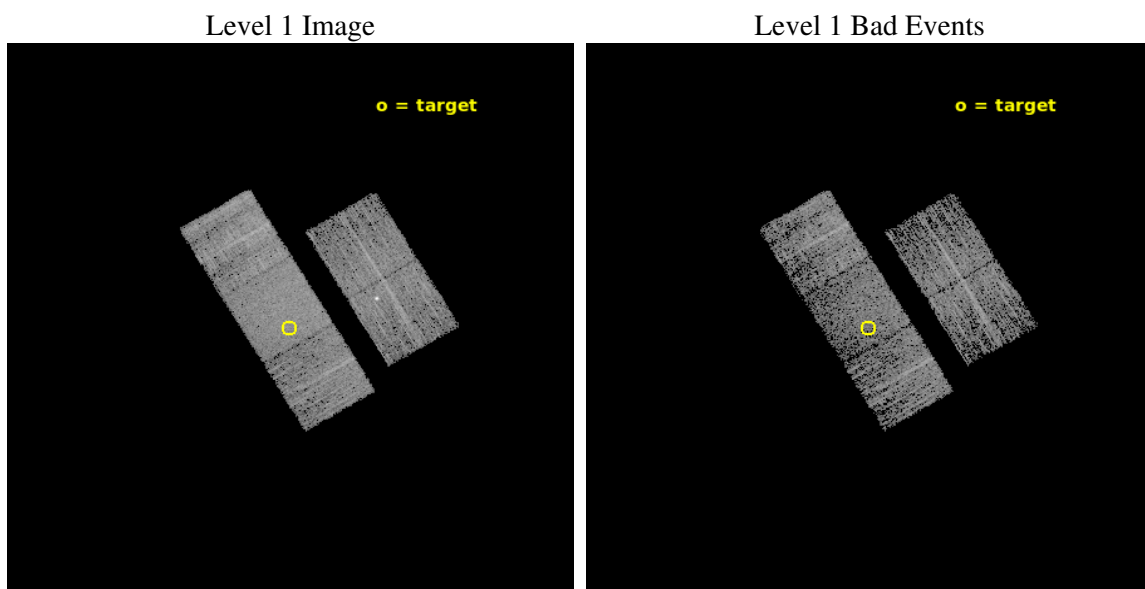
seq_num	502980	Sequence number
obs_id	20281	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J0846-3533	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.525	Observer's specified target RA [deg]
dec_targ	-35.561306	Observer's specified target Dec [deg]
ra_nom	131.5240383537	Nominal RA [deg]
dec_nom	-35.560428907038	Nominal Dec [deg]
roll_nom	239.04000311685	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3557.9773690701	Sum of GTIs [s]
livetime	3511.4897753983	Livetime [s]
ontime2	3557.8132090569	Sum of GTIs [s]
ontime3	3557.8952890635	Sum of GTIs [s]
ontime6	3557.9363291264	Sum of GTIs [s]
ontime7	3557.9773690701	Sum of GTIs [s]
ontime8	3557.8542491198	Sum of GTIs [s]
l2events	25836	Number of level 2 events



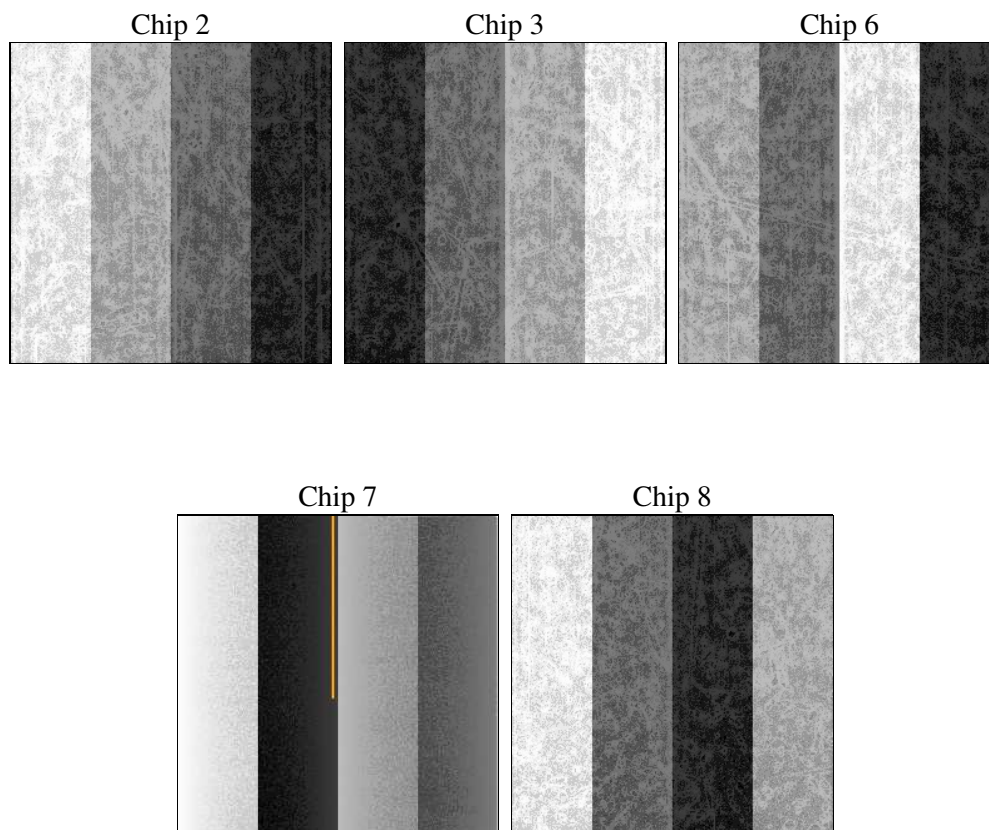
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	3557.9773690701	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	3557.8132090569	Sum of GTIs [s]
date	2020-10-26T02:38:31	Date and time of file creation	ontime3	3557.8952890635	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3557.9363291264	Sum of GTIs [s]
			ontime7	3557.9773690701	Sum of GTIs [s]
			ontime8	3557.8542491198	Sum of GTIs [s]
			l1events	145577	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	26765	24308	25566	33492	35446
rejected events	22555	21587	22562	19044	25970
rejected %	84%	88%	88%	56%	73%

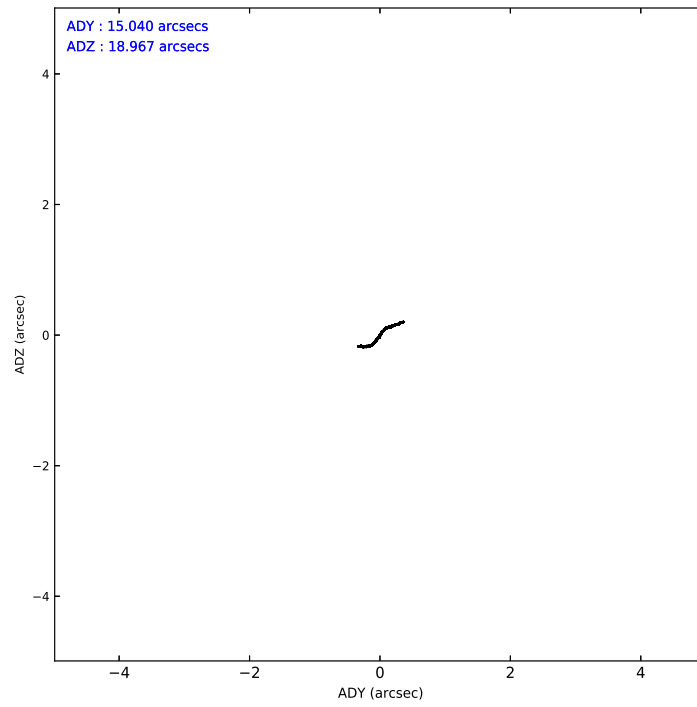
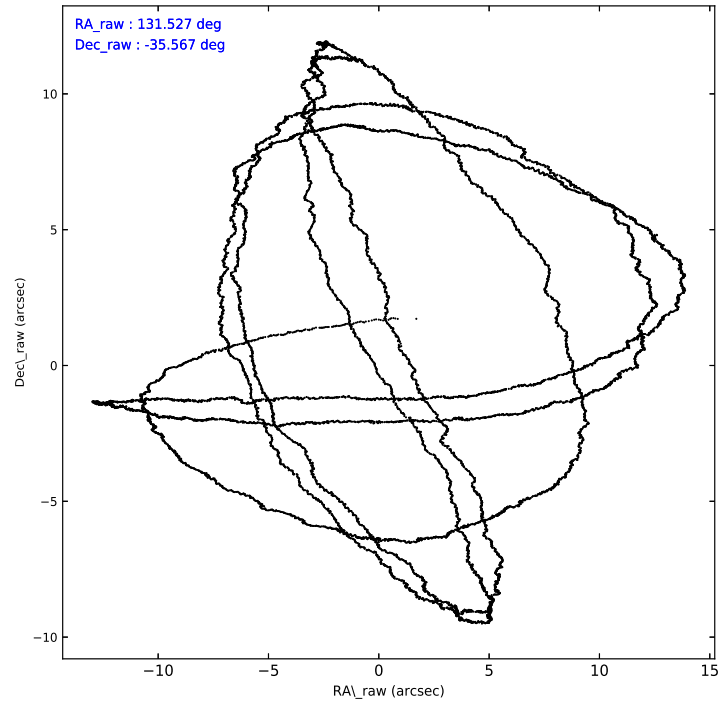
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2059	1025	1006	1218	2846
	7%	4%	3%	3%	8%
grade 1 events	22	10	13	40	35
	0%	0%	0%	0%	0%
grade 2 events	866	566	727	3060	2330
	3%	2%	2%	9%	6%
grade 3 events	334	304	309	1157	932
	1%	1%	1%	3%	2%
grade 4 events	366	270	296	1103	841
	1%	1%	1%	3%	2%
grade 5 events	1055	1230	1241	3371	1855
	3%	5%	4%	10%	5%
grade 6 events	592	557	670	7929	2593
	2%	2%	2%	23%	7%
grade 7 events	21471	20346	21304	15614	24014
	80%	83%	83%	46%	67%

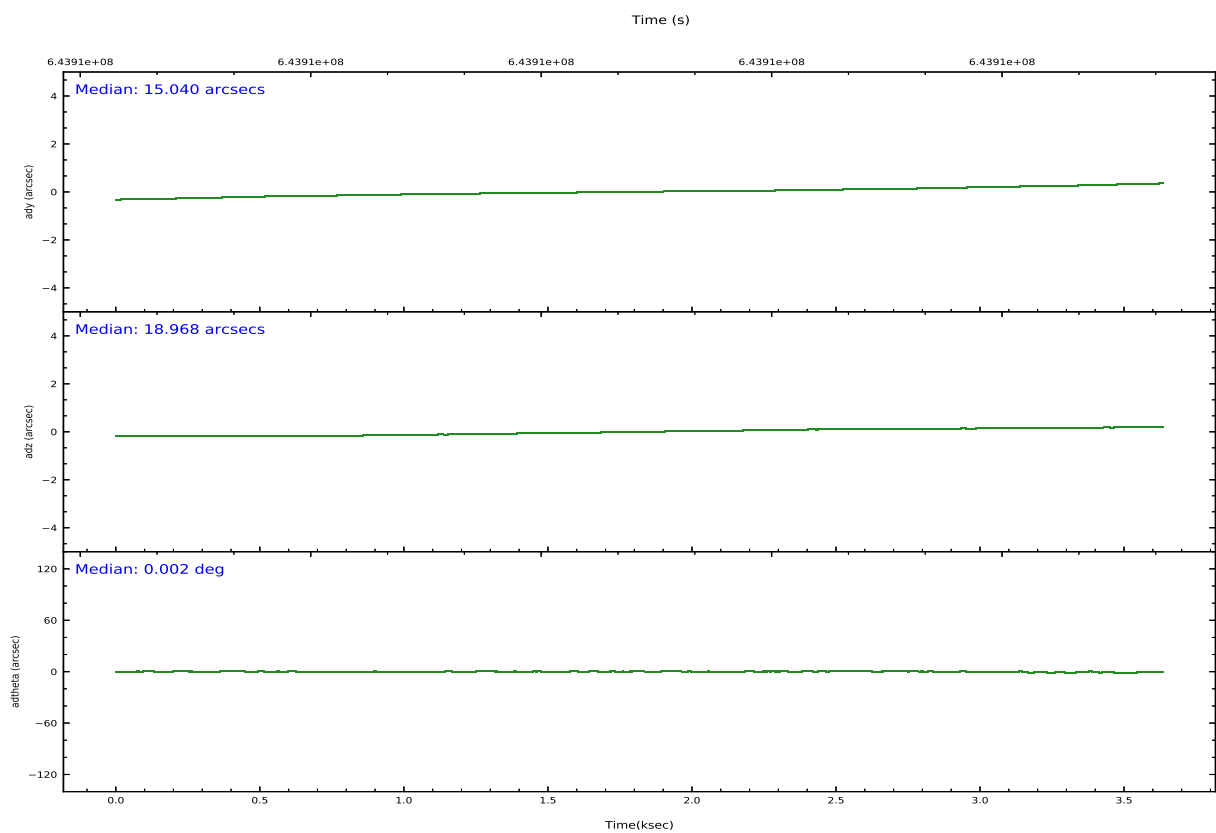
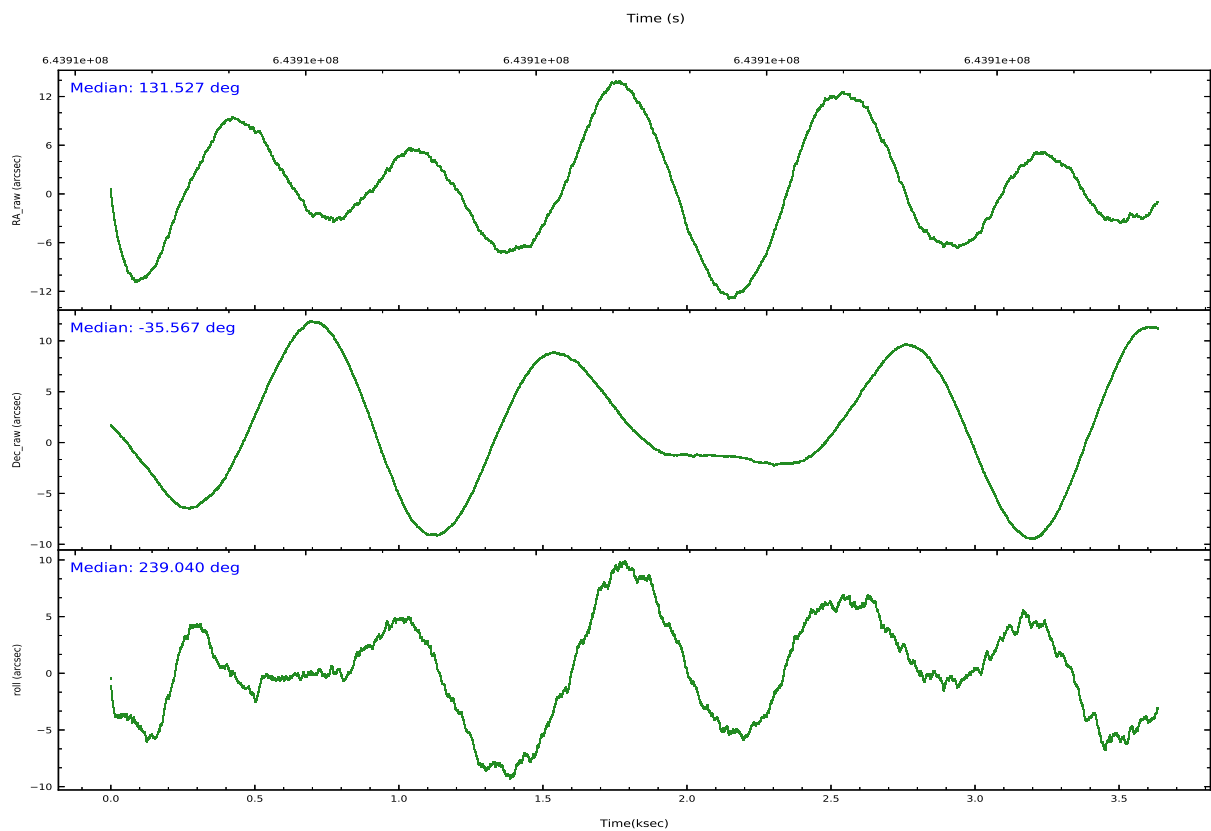
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	131.527304	131.5240383537
[deg] Pointing Dec	-35.539437	-35.560428907038
[deg] Pointing Roll	238.891753	239.04000311685
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	643905859.184000	643904769.7290699
Observation start date	2018-05-28T14:43:10	2018-05-28T14:26:09
[s] Observation end time (MET)	643909359.184000	643910179.16689
Observation end date	2018-05-28T15:41:30	2018-05-28T15:56:19
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



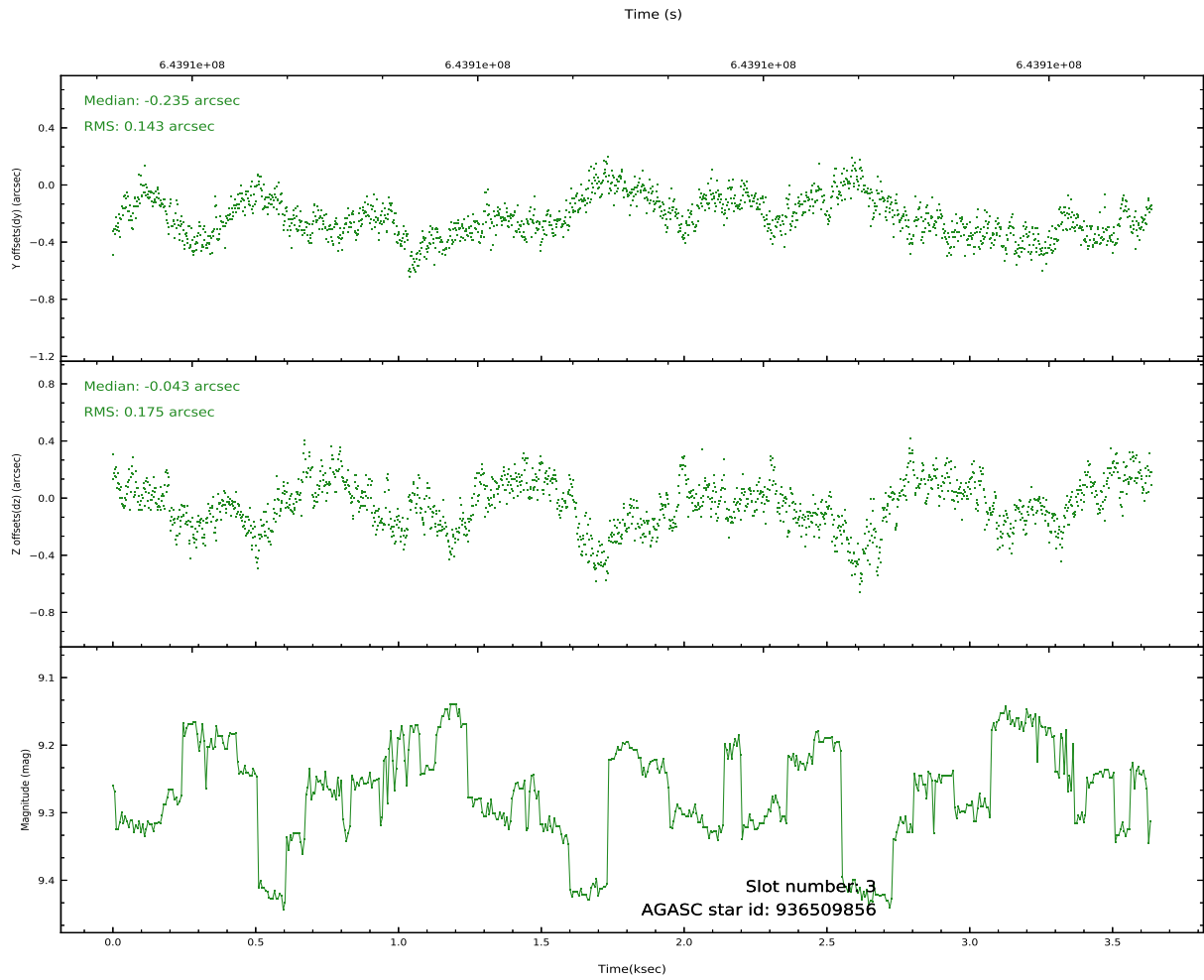
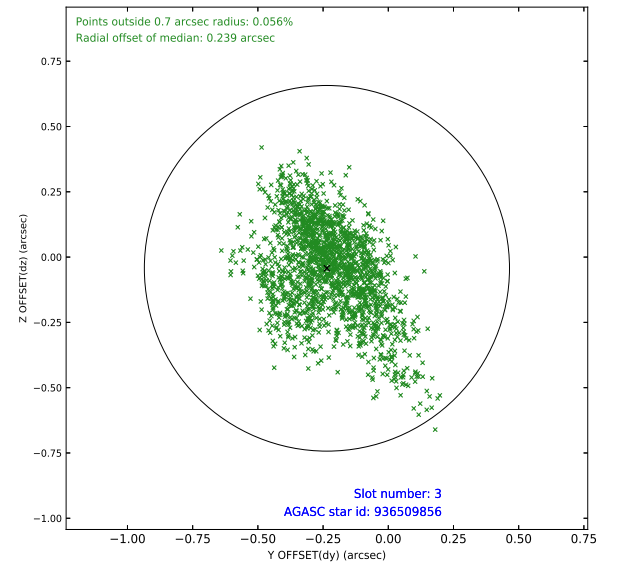
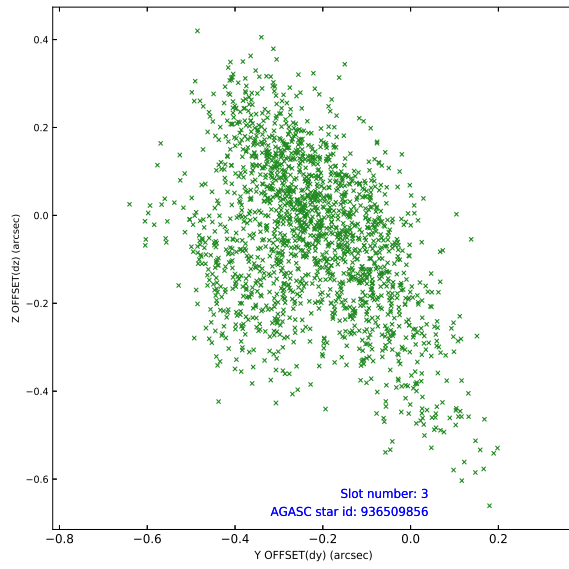


Slot Statistics

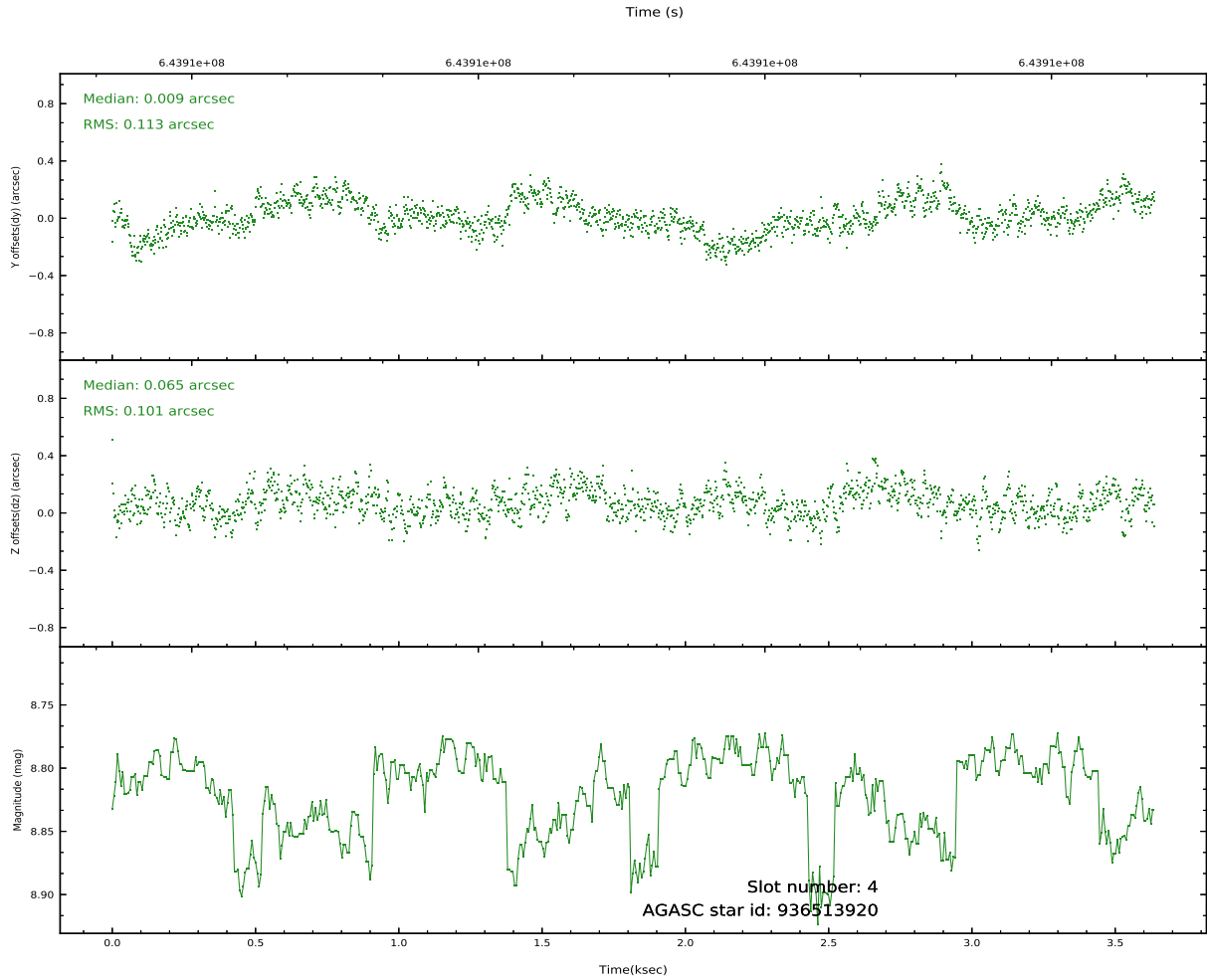
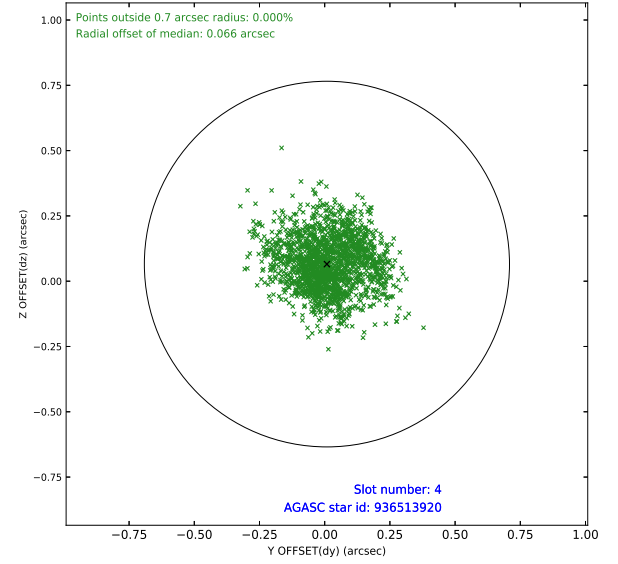
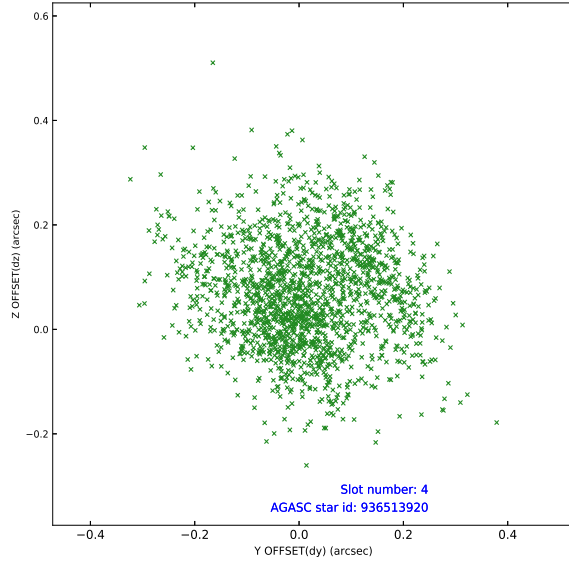
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.95	887	1.000	0.075	-0.084	0.011	0.017	0.000000	0.000000	-768.12	-1740
1	FID		ACIS-S-4	7.05	886	1.000	0.147	-0.014	0.008	0.016	0.000000	0.000000	2144.62	166
2	FID		ACIS-S-5	7.03	887	1.000	-0.253	0.106	0.012	0.021	0.000000	0.000000	-1818.88	162
3	GUIDE	used	936509856	9.27	1773	1.000	-0.235	-0.043	0.234	0.397	132.030419	-35.306703	-1478.29	834
4	GUIDE	used	936513920	8.81	1774	1.000	0.009	0.065	0.163	0.254	131.513526	-34.993858	-1661.68	-1048
5	GUIDE	used	936522304	8.50	1774	1.000	-0.089	0.102	0.146	0.255	132.290583	-35.392442	-1604.66	1647
6	GUIDE	used	936525200	9.20	1773	1.000	0.267	-0.123	0.157	0.266	131.658606	-35.588556	-47.54	421
7	GUIDE	used	937035160	8.53	1773	1.000	0.033	0.007	0.141	0.235	131.992072	-35.727547	-120.24	1517

2.4 Star Slots

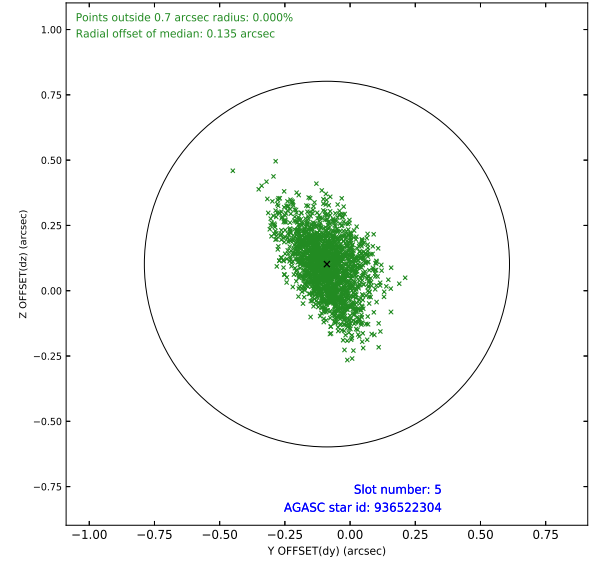
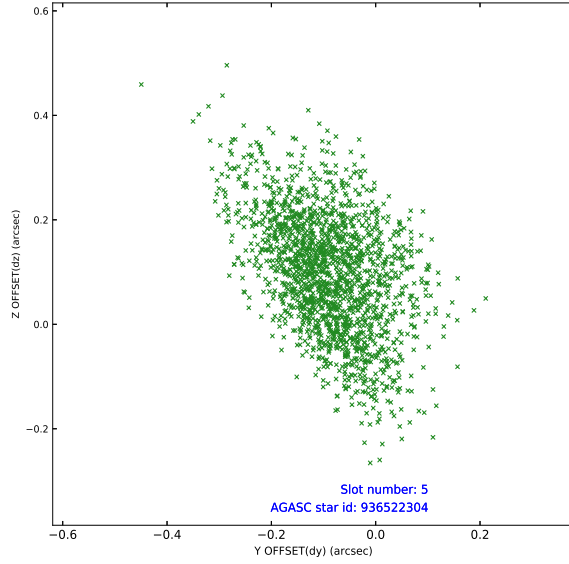
2.4.1 Slot 3



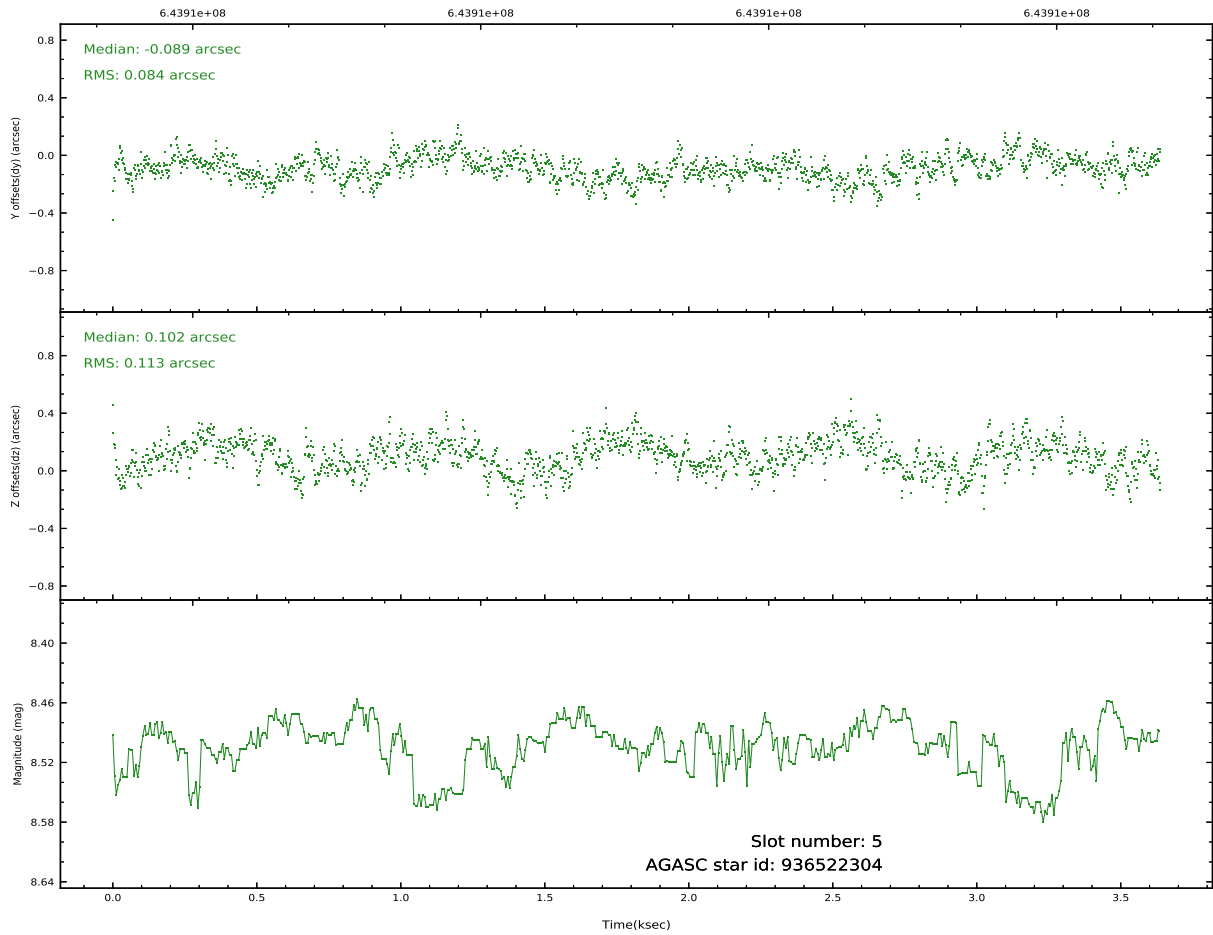
2.4.2 Slot 4



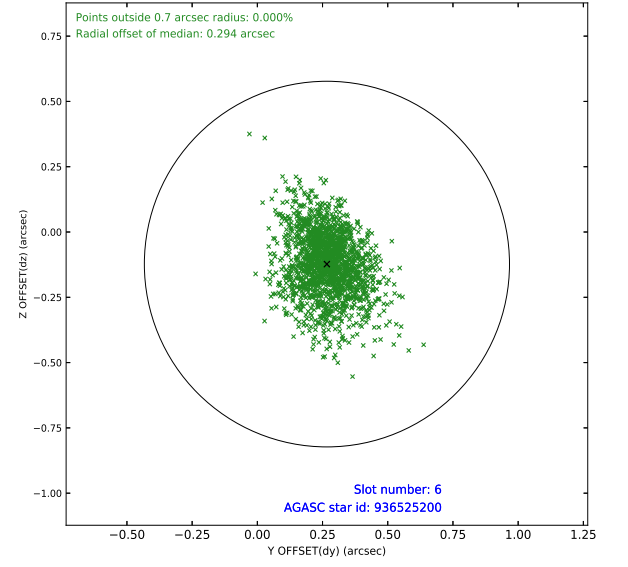
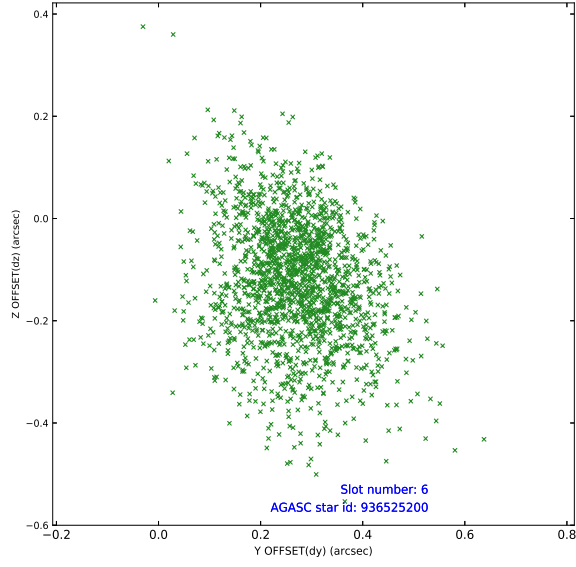
2.4.3 Slot 5



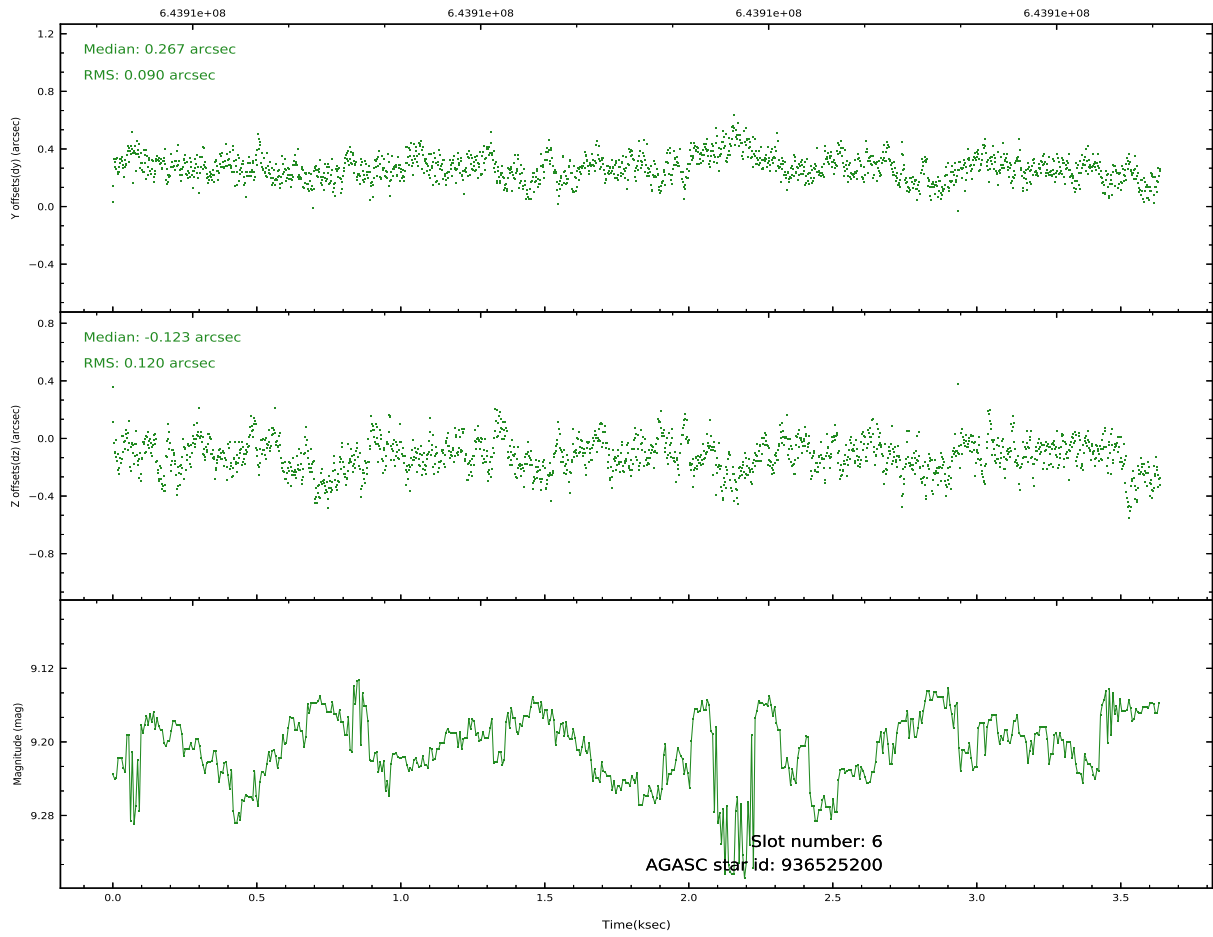
Time (s)



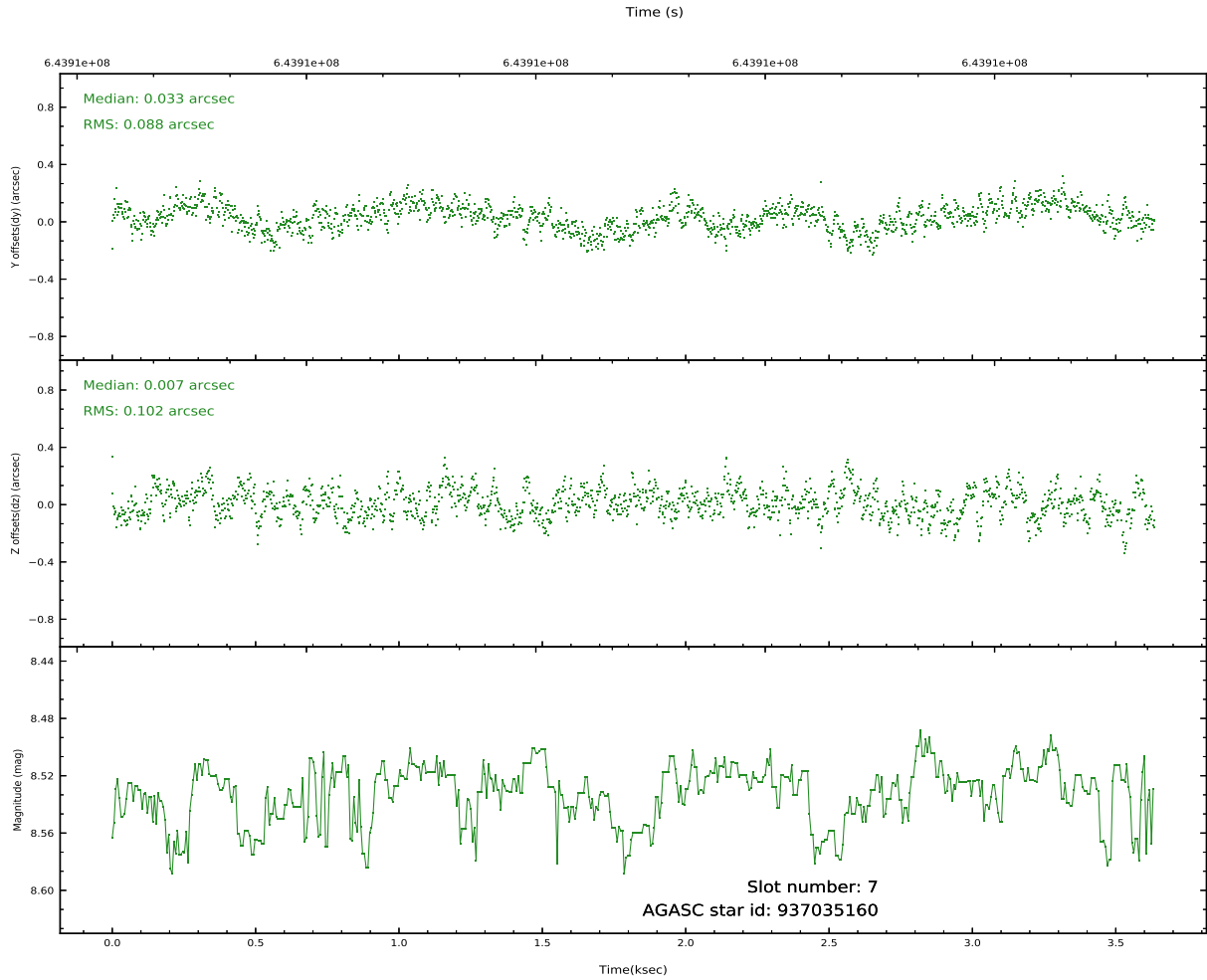
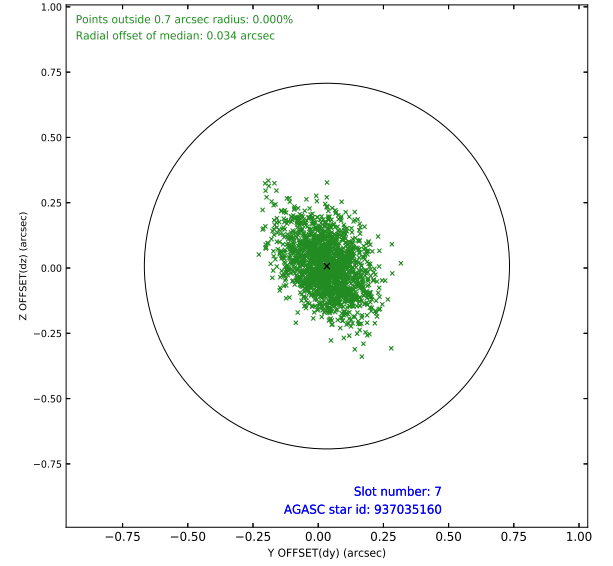
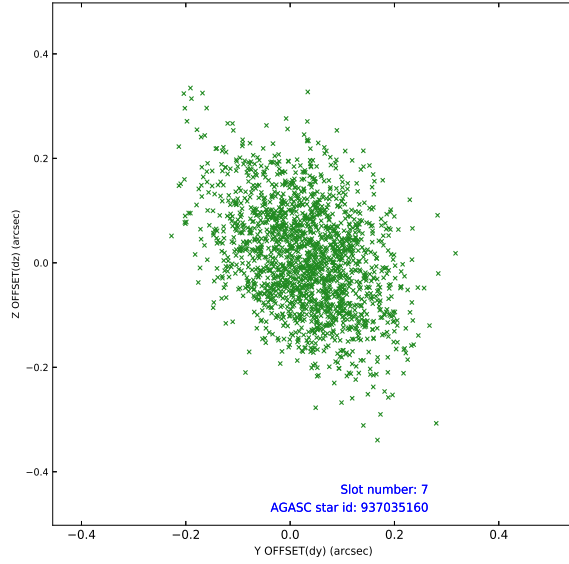
2.4.4 Slot 6



Time (s)

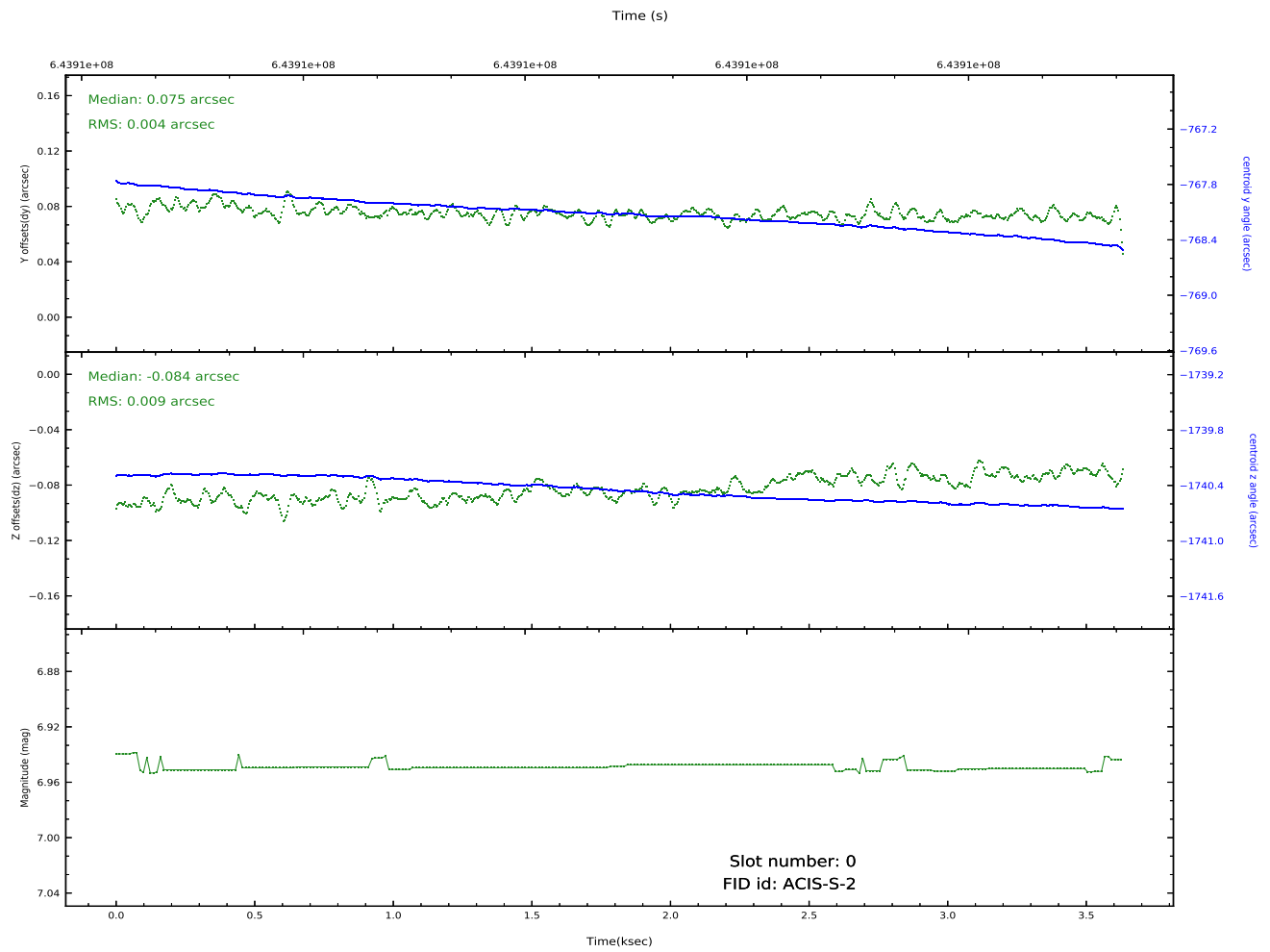
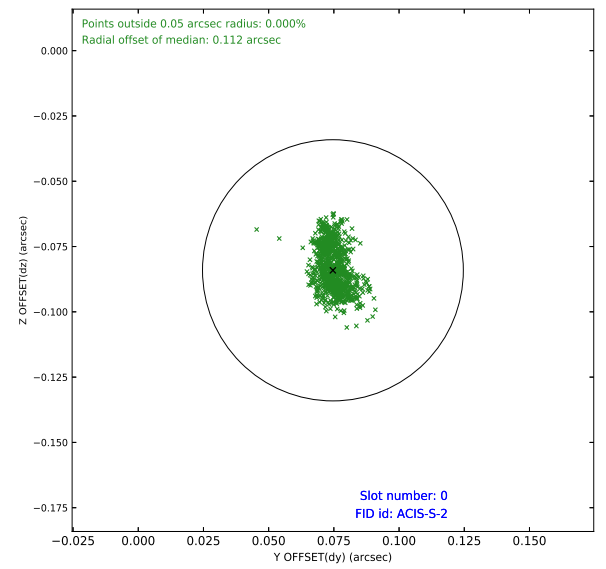
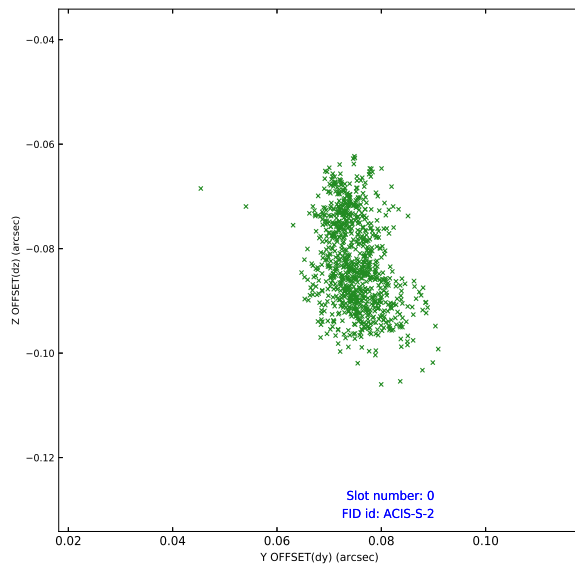


2.4.5 Slot 7

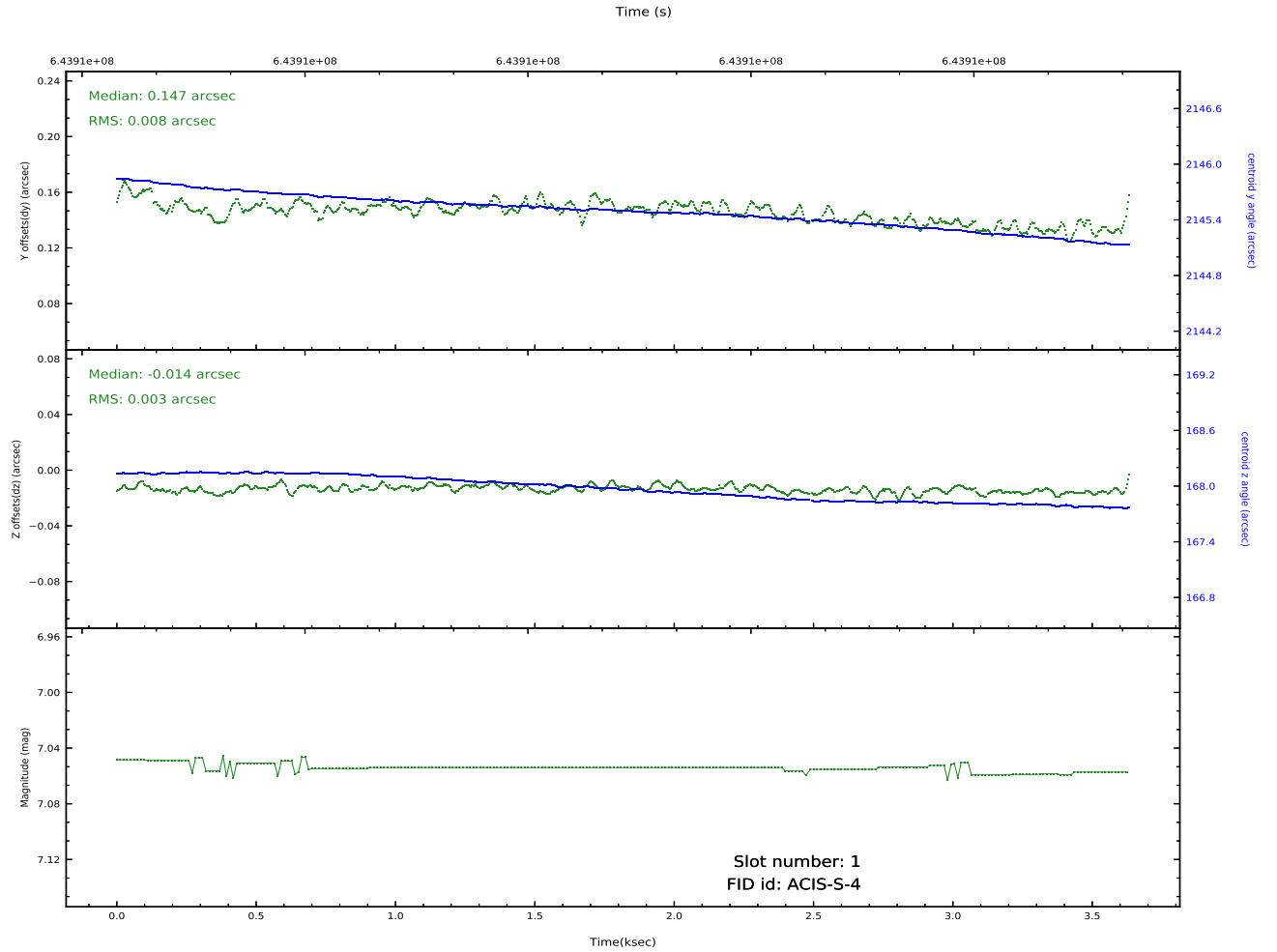
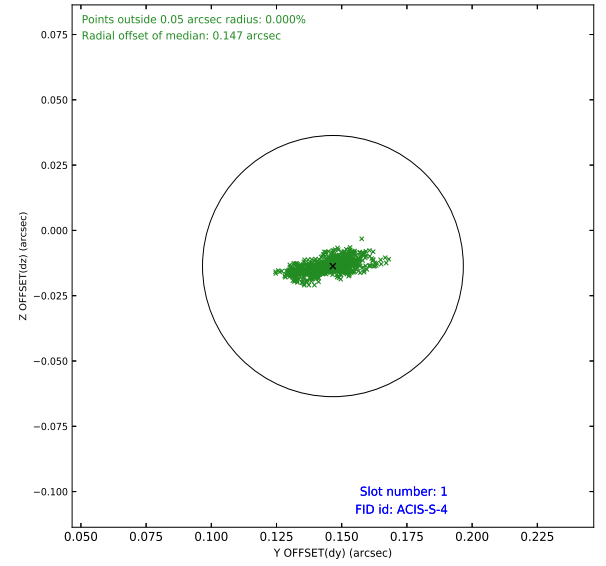
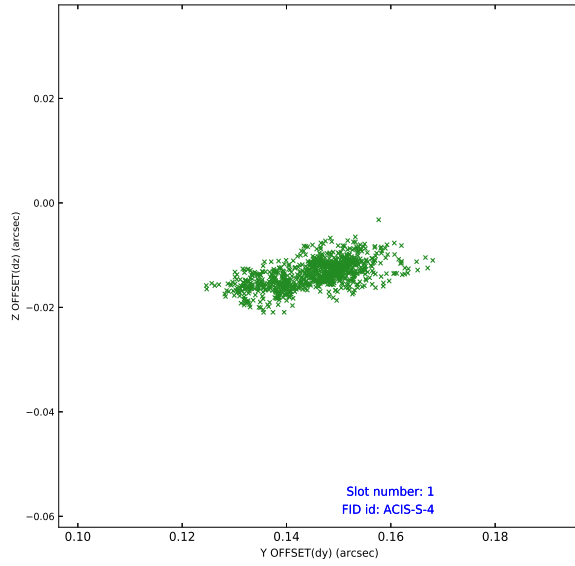


2.5 FID Slots

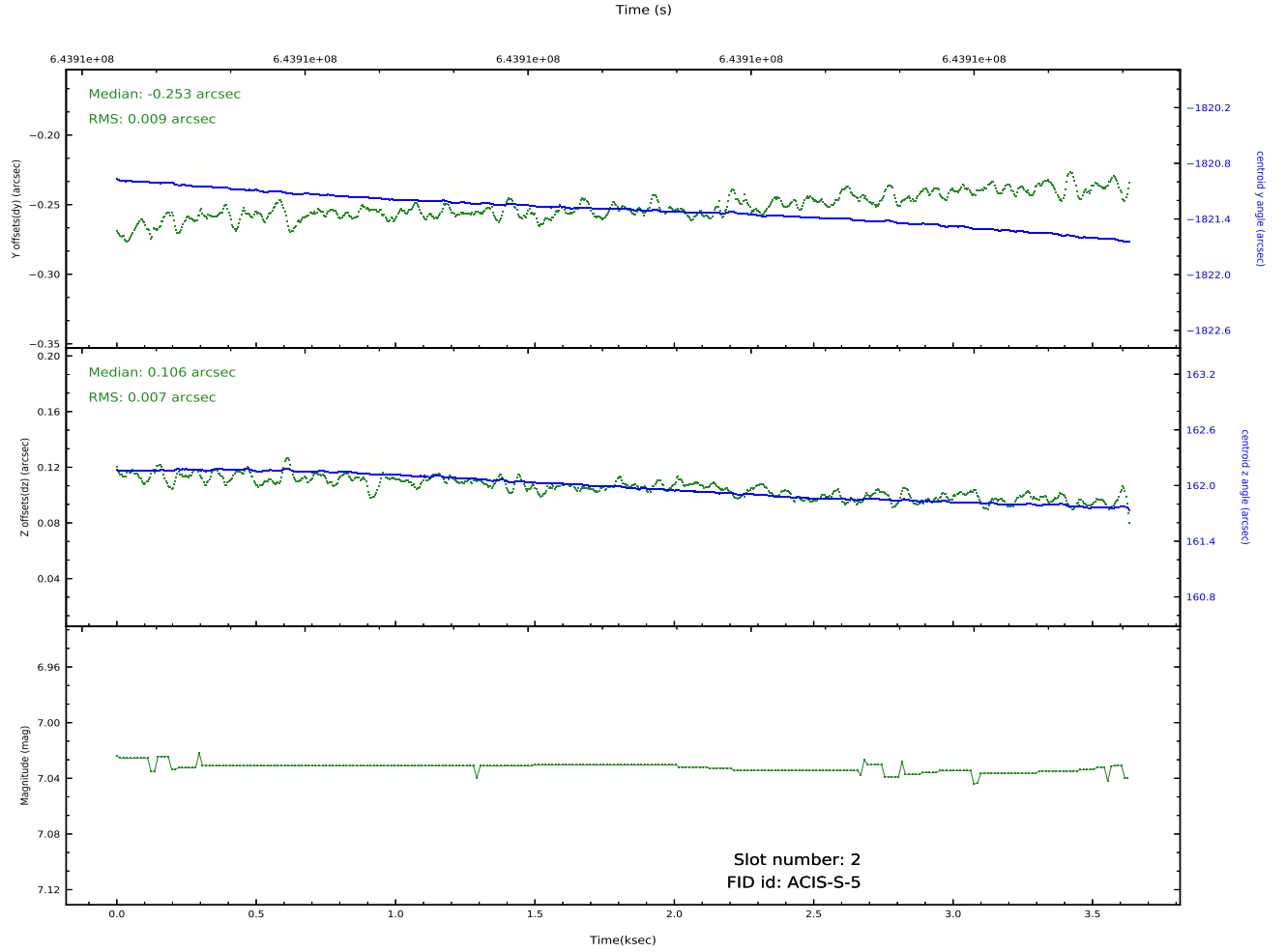
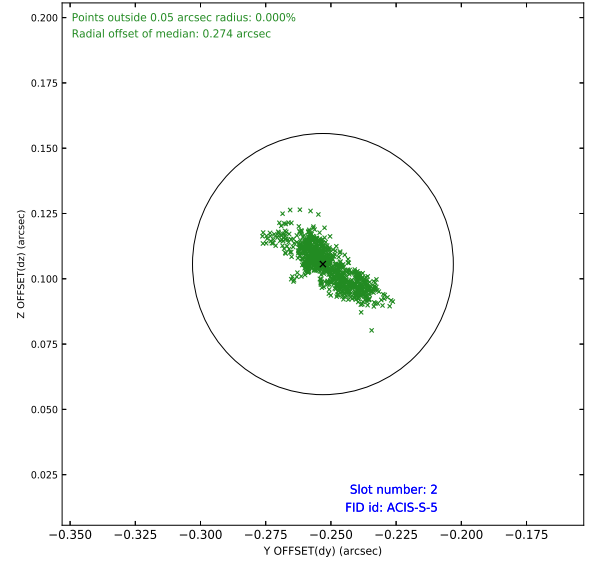
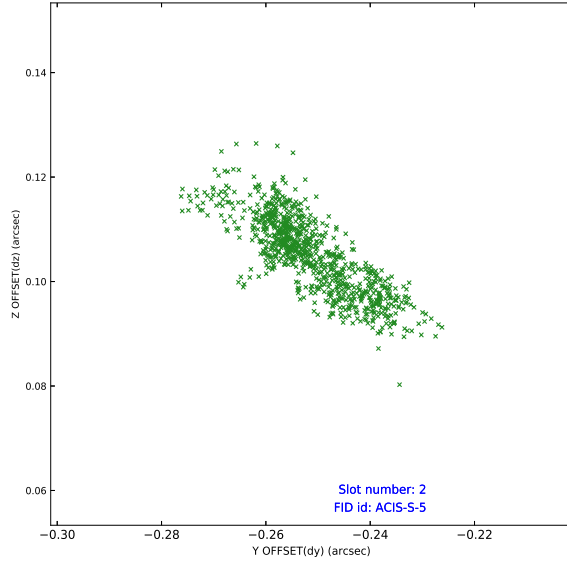
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5579773623943

A.2 Comments