

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20388 - L2 Version 2
Chandra X-Ray Center

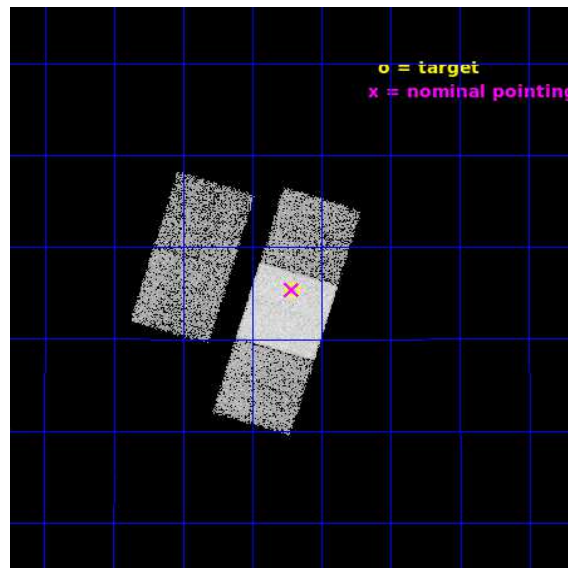
L2 Processing Date : Oct 26 2020

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1 Front

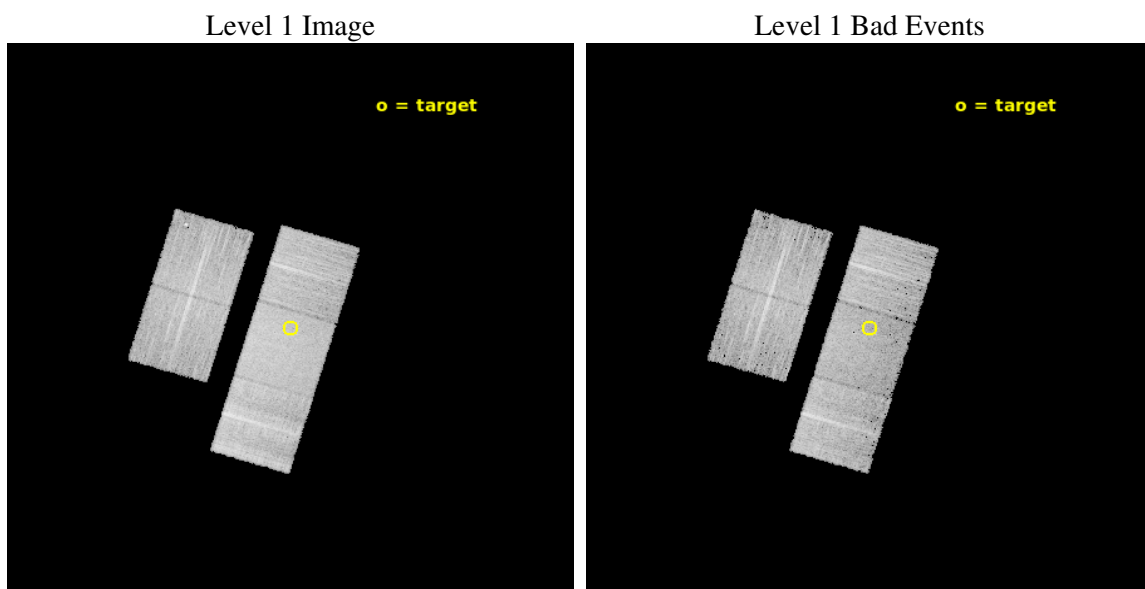
seq_num	703493	Sequence number
obs_id	20388	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	ULASJ0123+1525	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	20.802083	Observer's specified target RA [deg]
dec_targ	15.423	Observer's specified target Dec [deg]
ra_nom	20.803497661313	Nominal RA [deg]
dec_nom	15.423190365276	Nominal Dec [deg]
roll_nom	106.90818654748	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9055.1000697613	Sum of GTIs [s]
livetime	8936.7885210822	Livetime [s]
ontime2	9055.1000697613	Sum of GTIs [s]
ontime3	9055.1000697613	Sum of GTIs [s]
ontime6	9055.1000697613	Sum of GTIs [s]
ontime7	9055.1000697613	Sum of GTIs [s]
ontime8	9051.9591989517	Sum of GTIs [s]
l2events	64068	Number of level 2 events



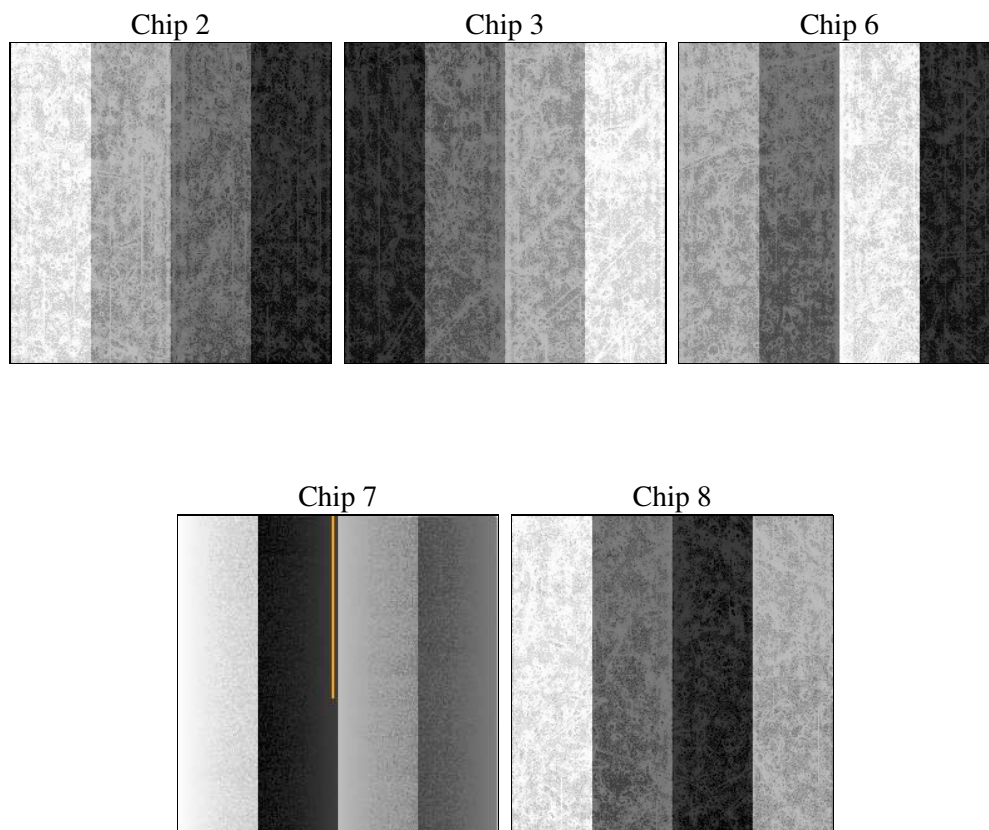
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9055.1000697613	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9055.1000697613	Sum of GTIs [s]
date	2020-10-26T06:42:31	Date and time of file creation	ontime3	9055.1000697613	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9055.1000697613	Sum of GTIs [s]
			ontime7	9055.1000697613	Sum of GTIs [s]
			ontime8	9051.9591989517	Sum of GTIs [s]
			l1events	377692	Number of level 1 events

2.1.4 Events

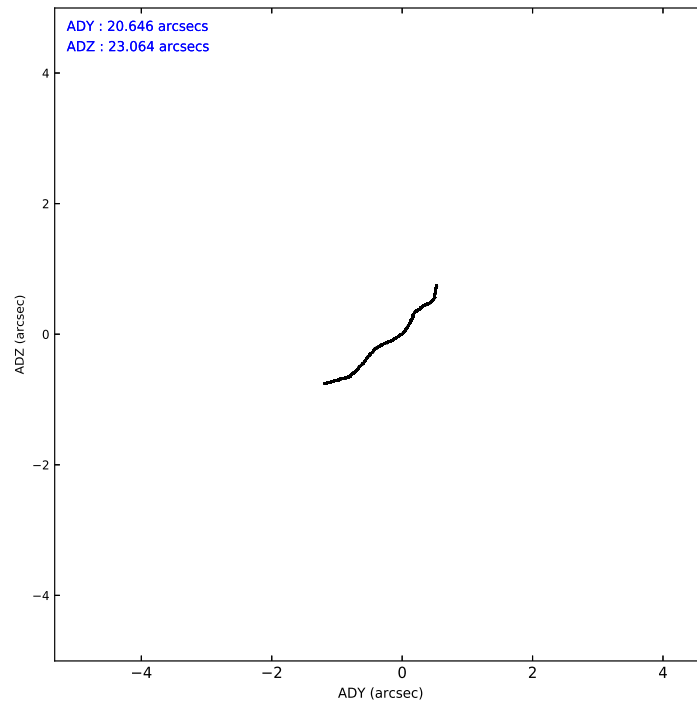
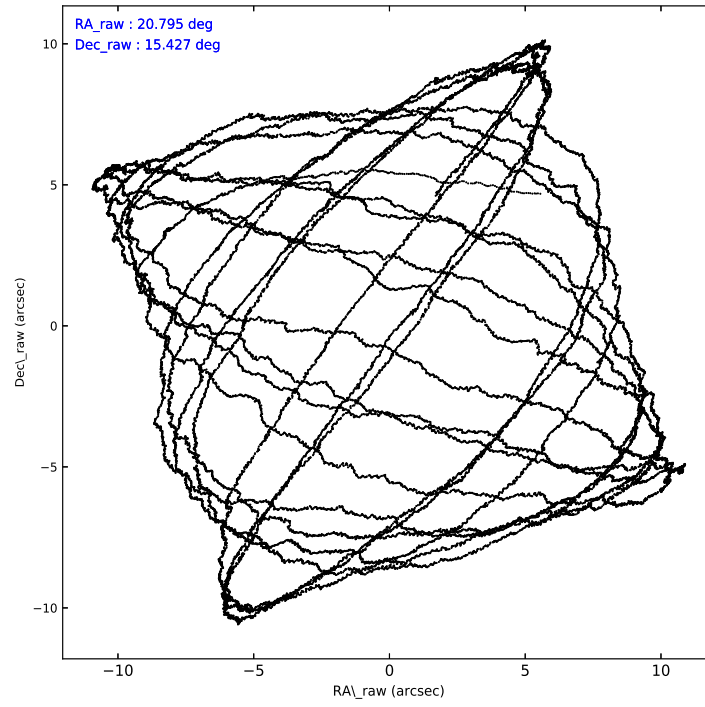
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	66983	63493	70399	86801	90016
rejected events	59276	56096	62633	49069	64501
rejected %	88%	88%	88%	56%	71%

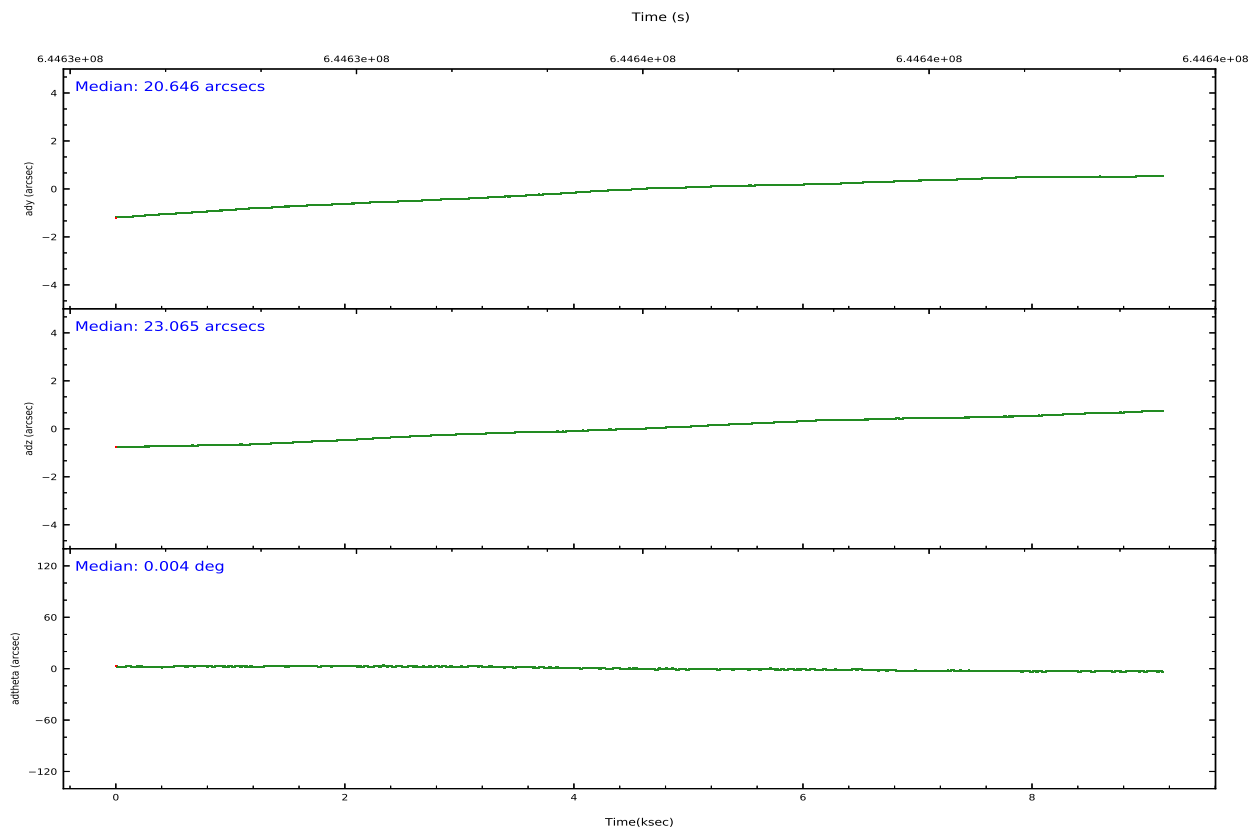
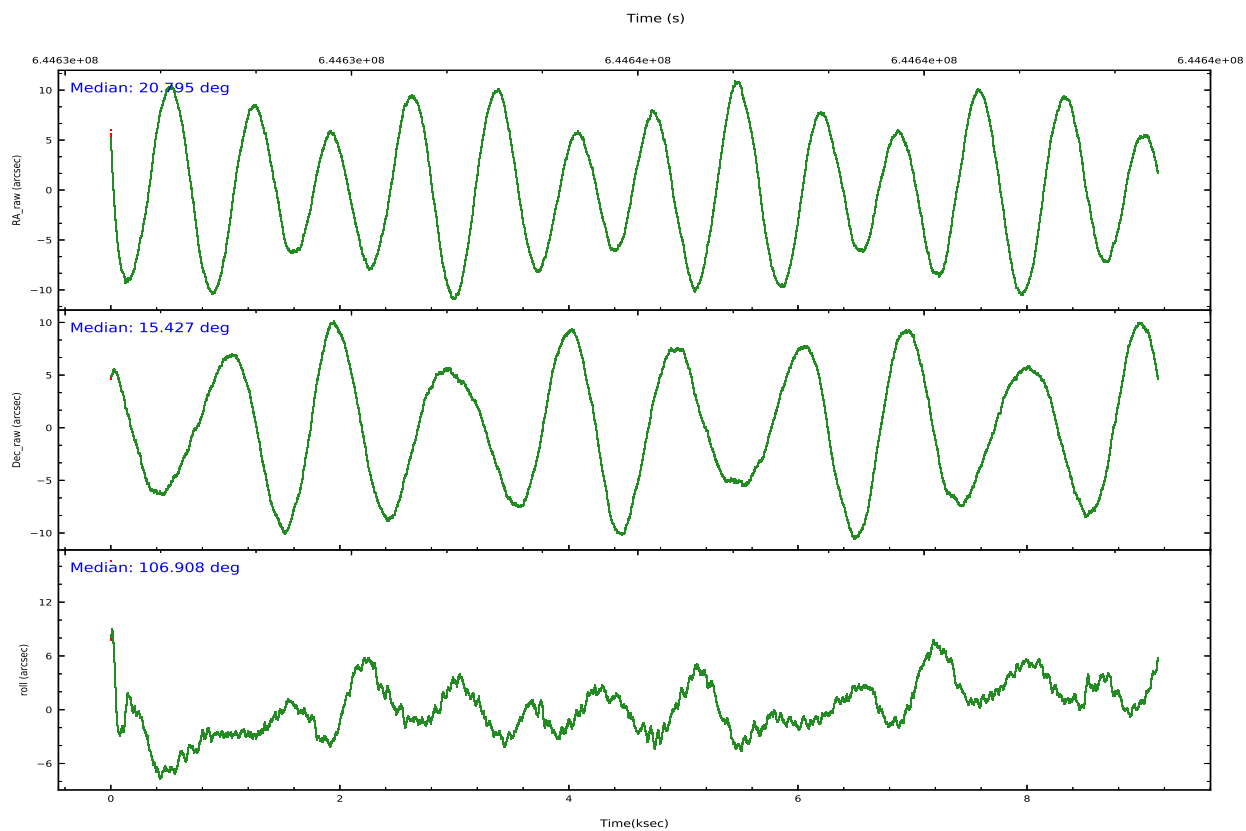
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3006	2782	2624	3145	7527
	4%	4%	3%	3%	8%
grade 1 events	47	30	50	116	82
	0%	0%	0%	0%	0%
grade 2 events	1828	1573	1790	8099	6007
	2%	2%	2%	9%	6%
grade 3 events	751	752	747	2958	2661
	1%	1%	1%	3%	2%
grade 4 events	730	733	730	3054	2524
	1%	1%	1%	3%	2%
grade 5 events	2671	3224	3323	8494	4813
	3%	5%	4%	9%	5%
grade 6 events	1393	1563	1881	20495	6805
	2%	2%	2%	23%	7%
grade 7 events	56557	52836	59254	40440	59597
	84%	83%	84%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	20.816203	20.803497661313	CCD I2 on	O1	Y
[deg] Pointing Dec	15.408394	15.423190365276	CCD I3 on	O2	Y
[deg] Pointing Roll	106.755980	106.90818654748	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	644630544.184000	644629277.69692	CCD S5 on	N	N
Observation start date	2018-06-06T00:01:15	2018-06-05T23:41:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	644639544.184000	644640602.41009	On-chip summing requested	N	N
Observation end date	2018-06-06T02:31:15	2018-06-06T02:50:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



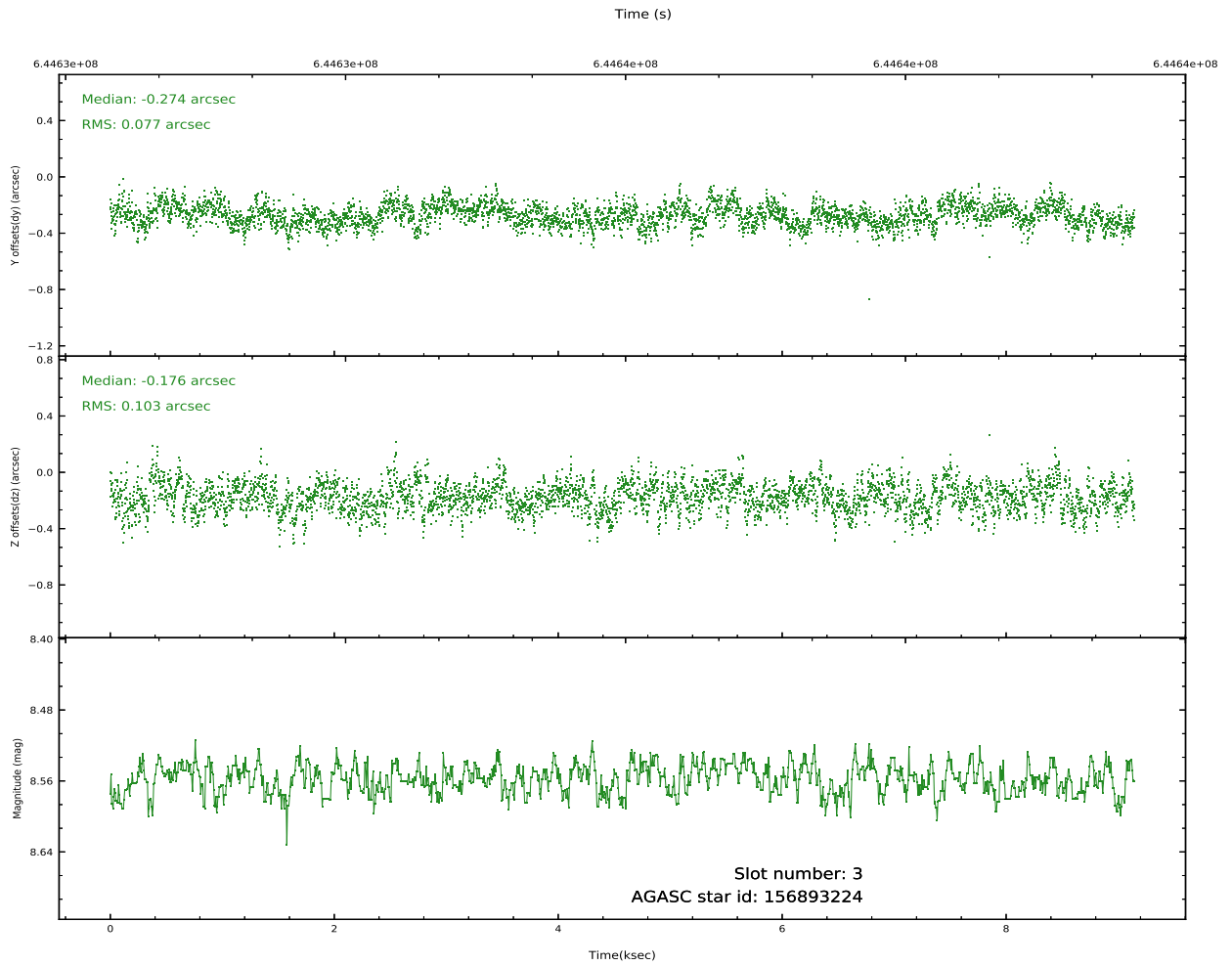
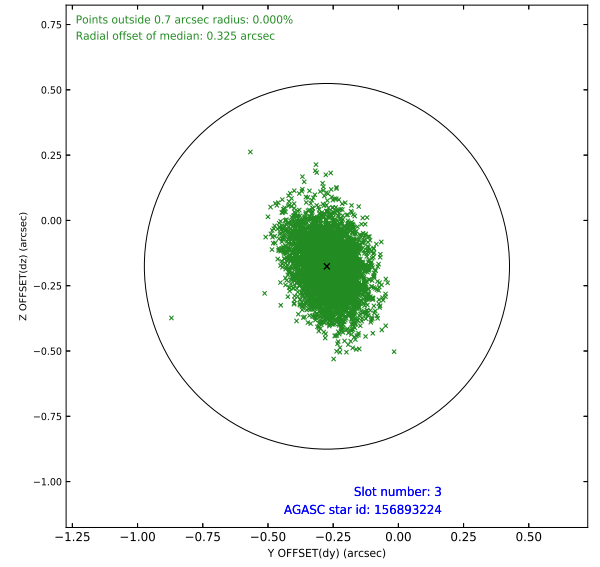
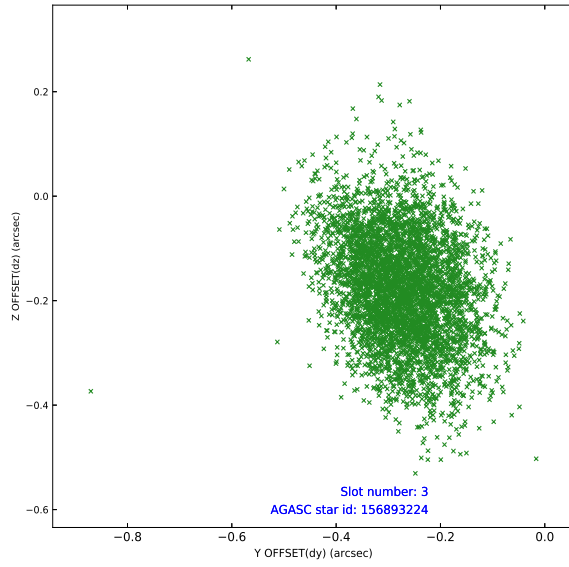


Slot Statistics

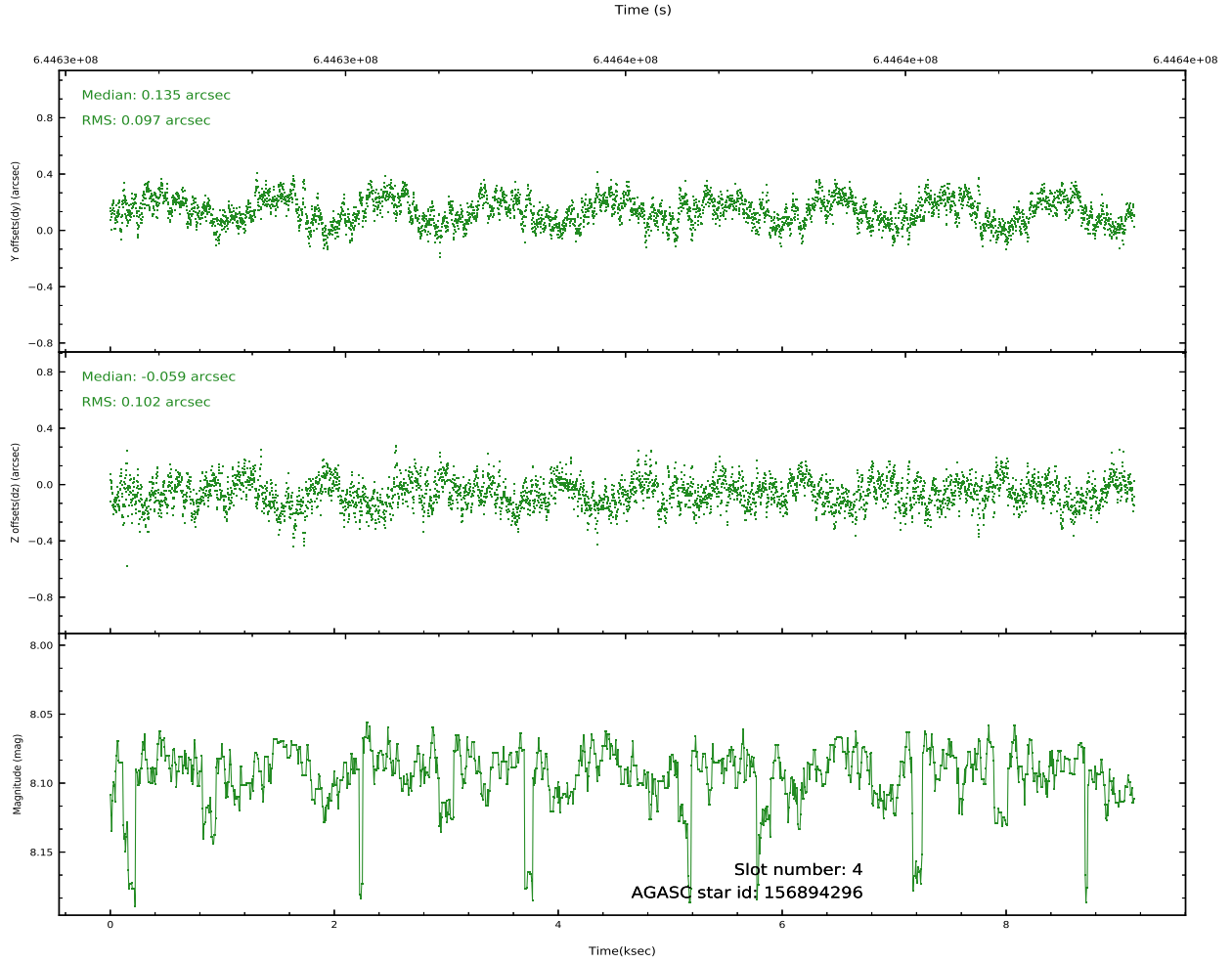
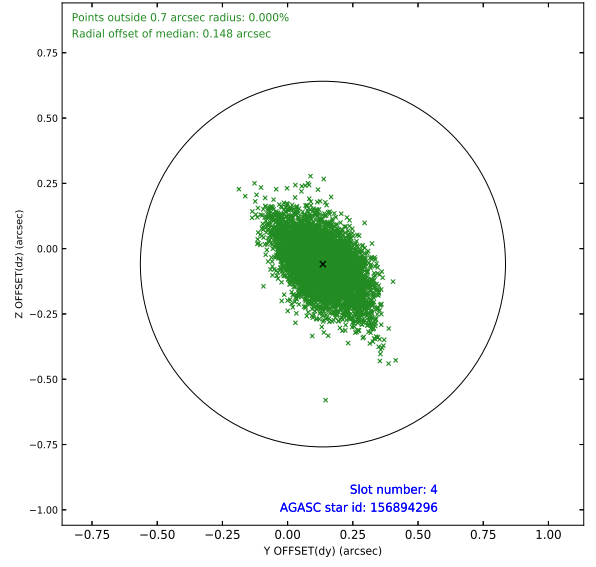
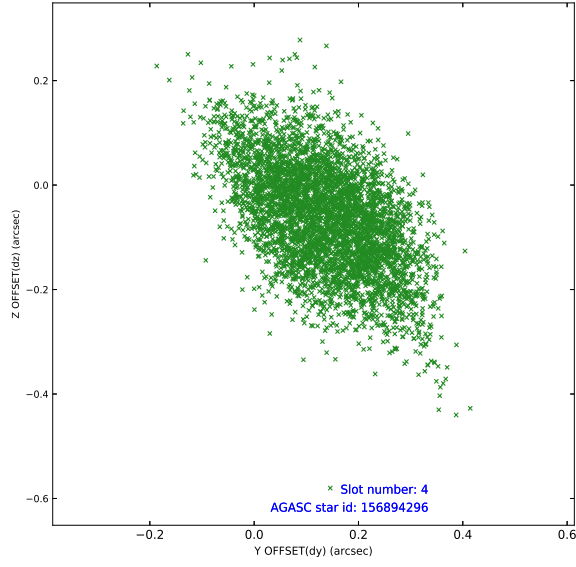
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.96	2231	1.000	0.128	-0.114	0.014	0.032	0.000000	0.000000	-773.77	-1744
1	FID		ACIS-S-4	7.07	2231	1.000	0.078	-0.031	0.011	0.032	0.000000	0.000000	2139.47	162
2	FID		ACIS-S-5	7.07	2231	1.000	-0.238	0.154	0.015	0.027	0.000000	0.000000	-1825.94	158
3	GUIDE	used	156893224	8.56	4459	1.000	-0.274	-0.176	0.135	0.224	20.291131	15.316313	209.82	1840
4	GUIDE	used	156894296	8.09	4457	1.000	0.135	-0.059	0.145	0.244	20.498838	15.177117	-479.55	1291
5	GUIDE	used	156894816	9.02	4457	1.000	0.159	0.050	0.221	0.359	20.438571	15.199238	-341.75	1473
6	GUIDE	used	156896112	8.77	4461	1.000	0.222	0.427	0.144	0.245	21.004026	15.305297	-543.02	-516
7	GUIDE	used	156896960	7.18	4461	1.000	-0.241	-0.245	0.133	0.224	20.171257	15.696039	1638.37	1840

2.4 Star Slots

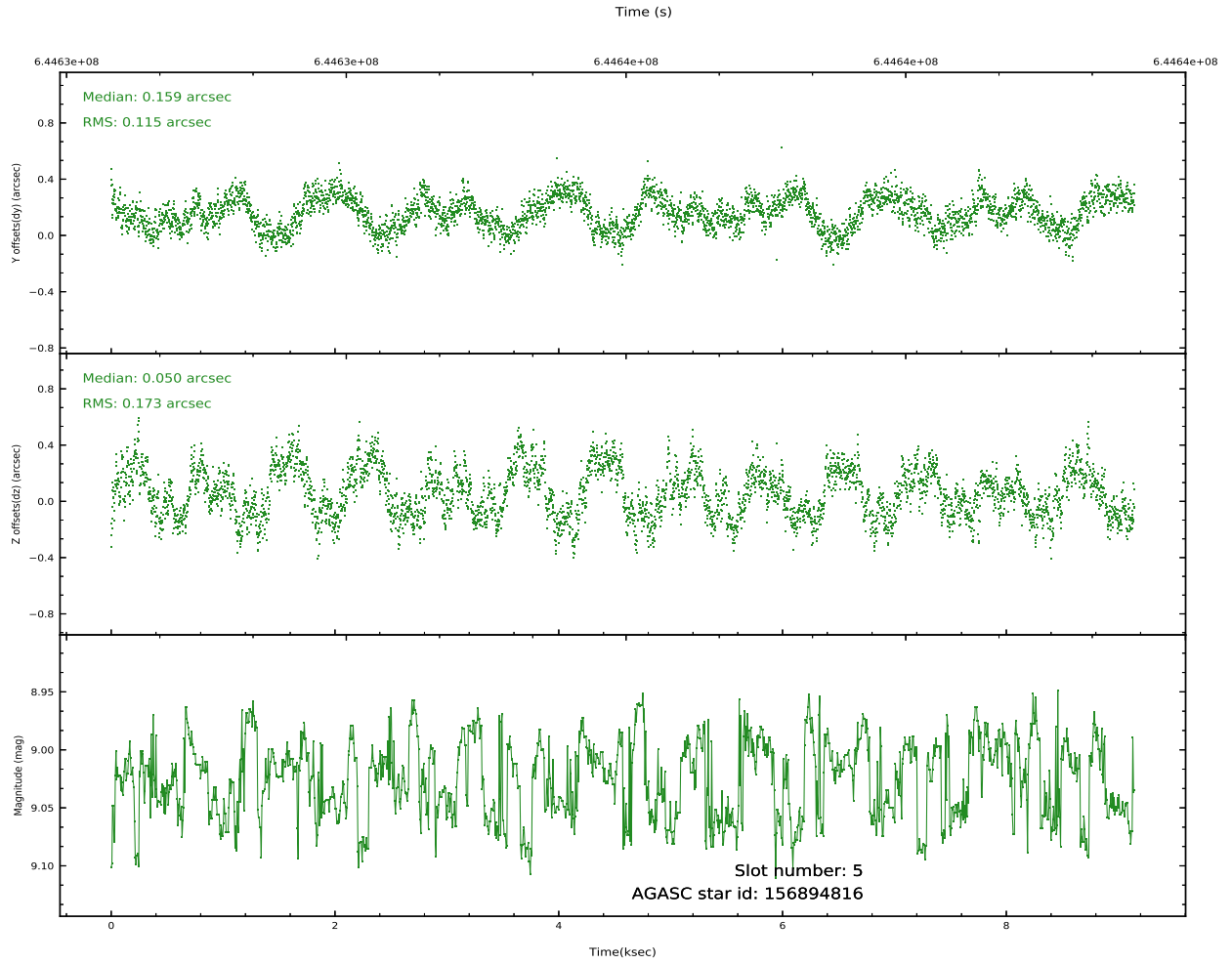
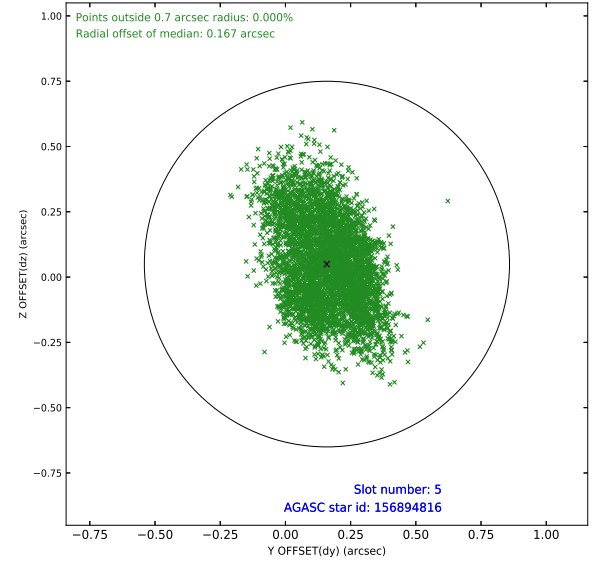
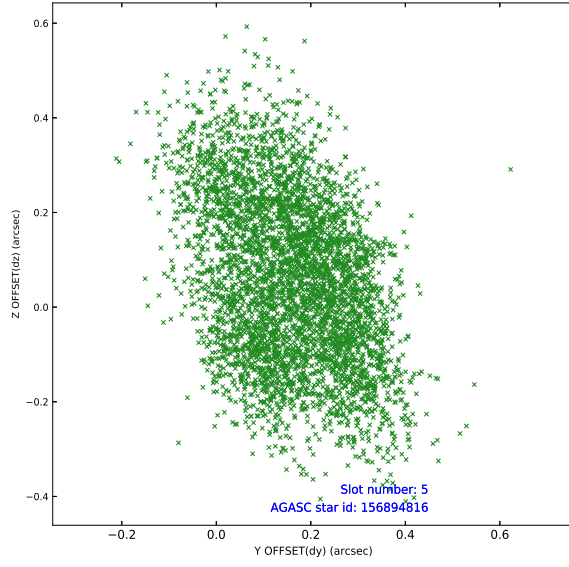
2.4.1 Slot 3



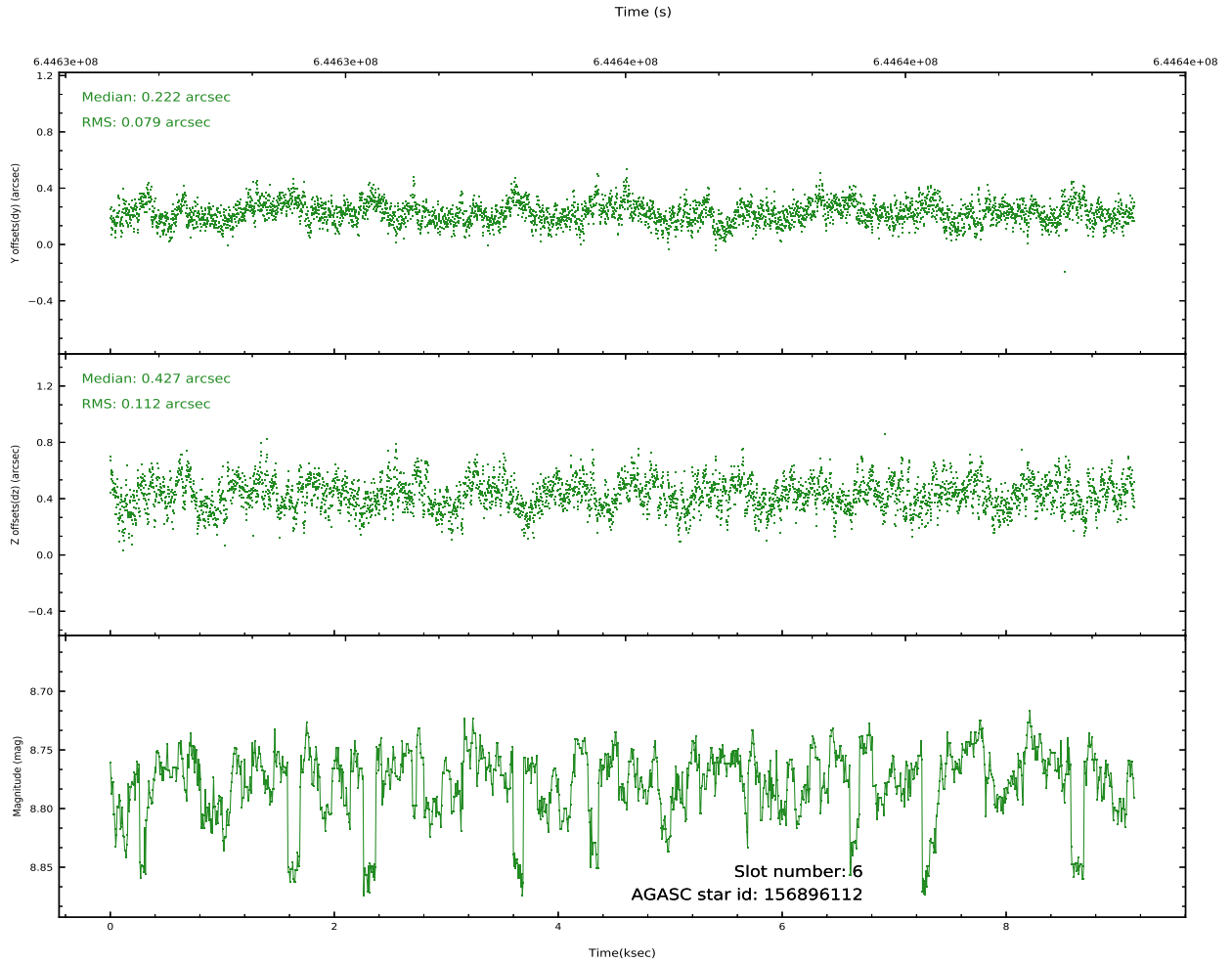
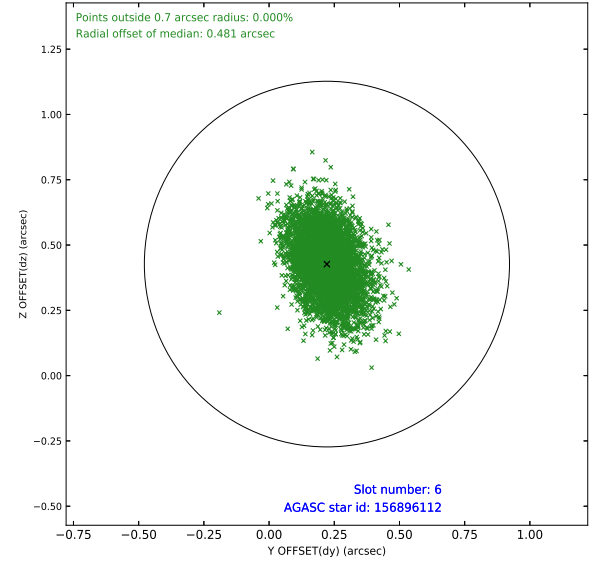
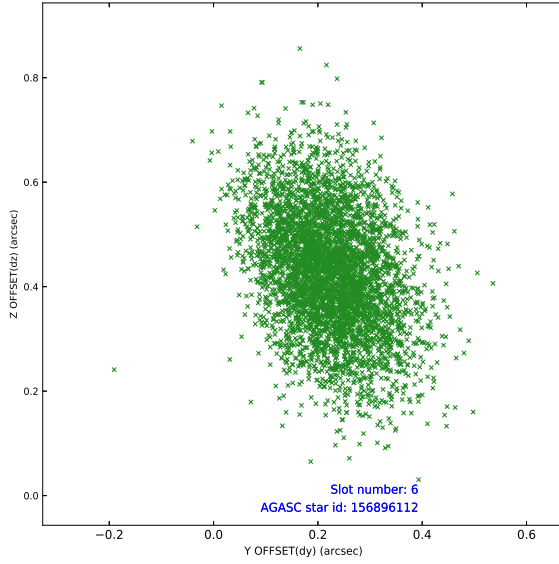
2.4.2 Slot 4



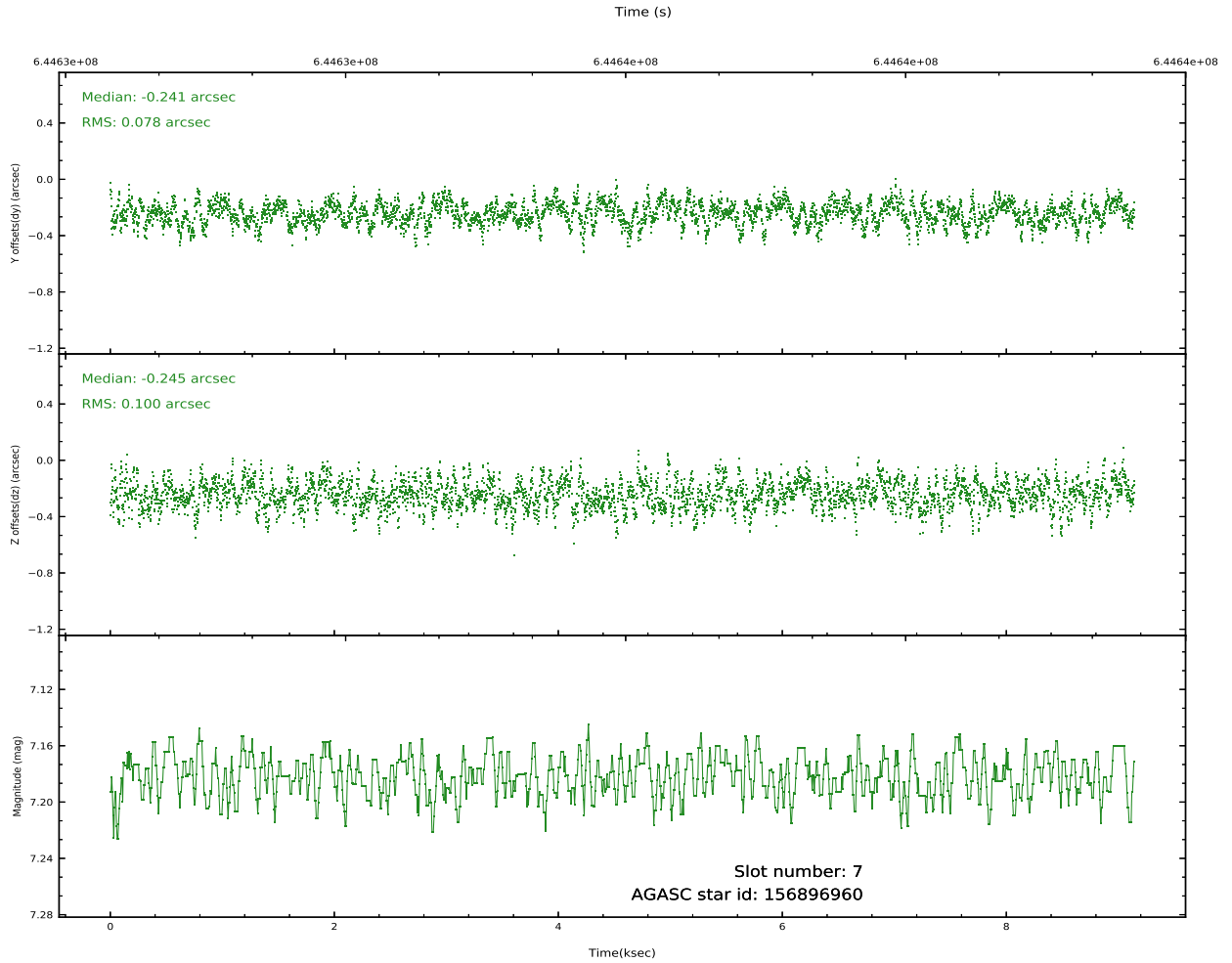
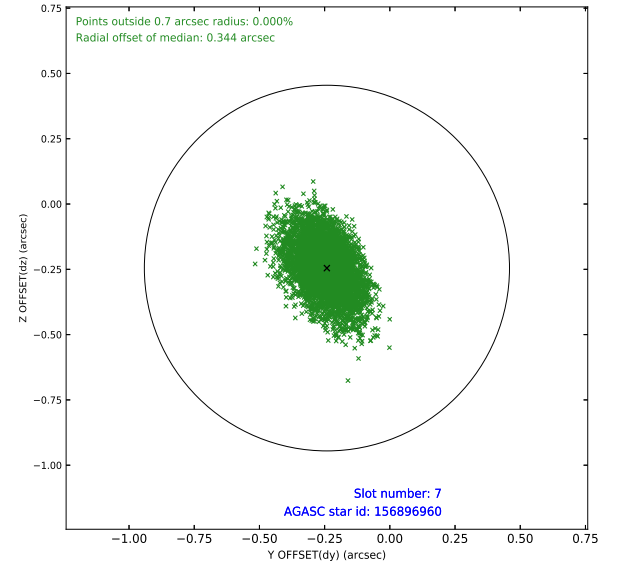
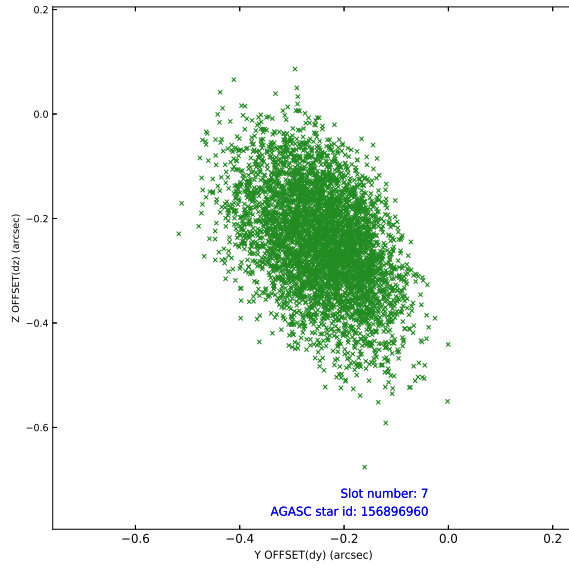
2.4.3 Slot 5



2.4.4 Slot 6

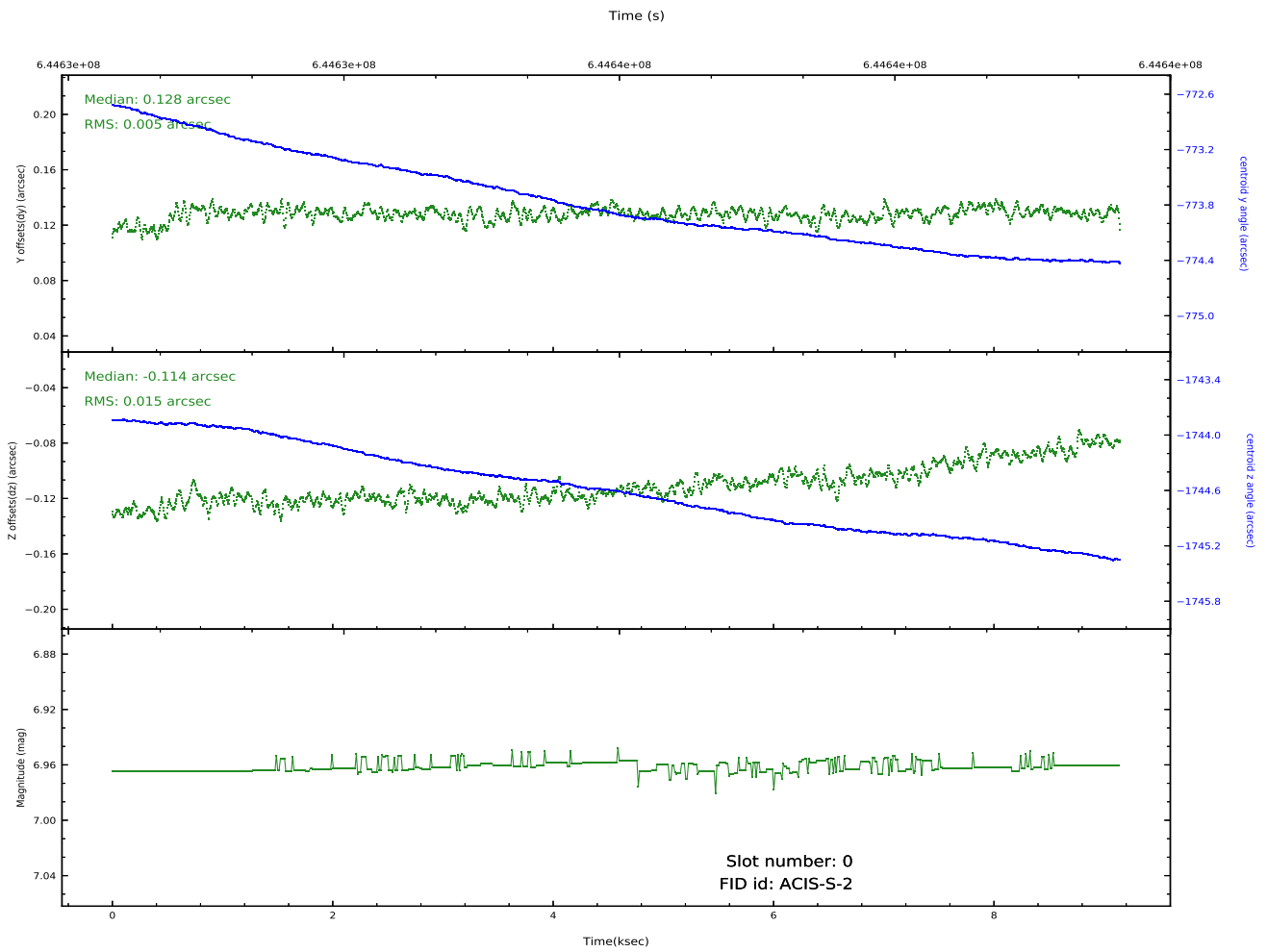
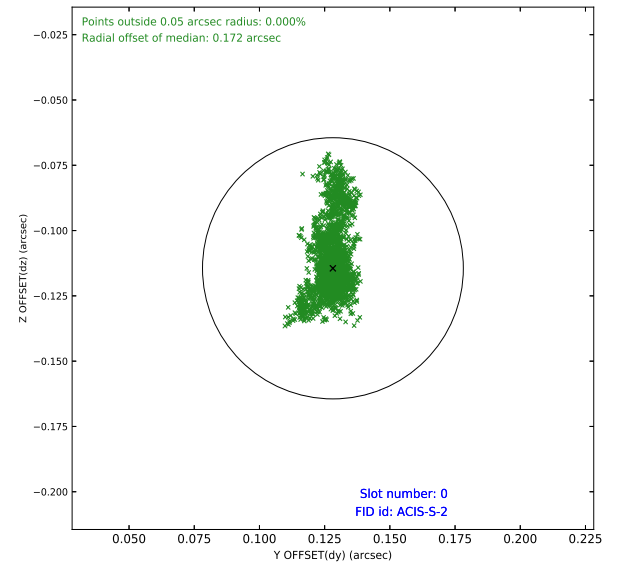
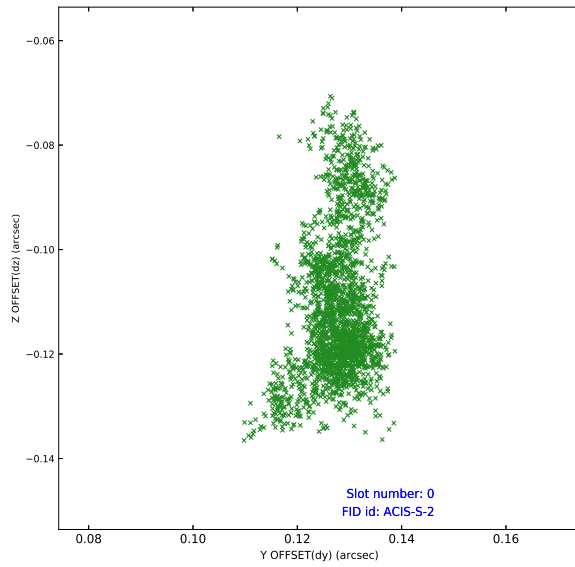


2.4.5 Slot 7

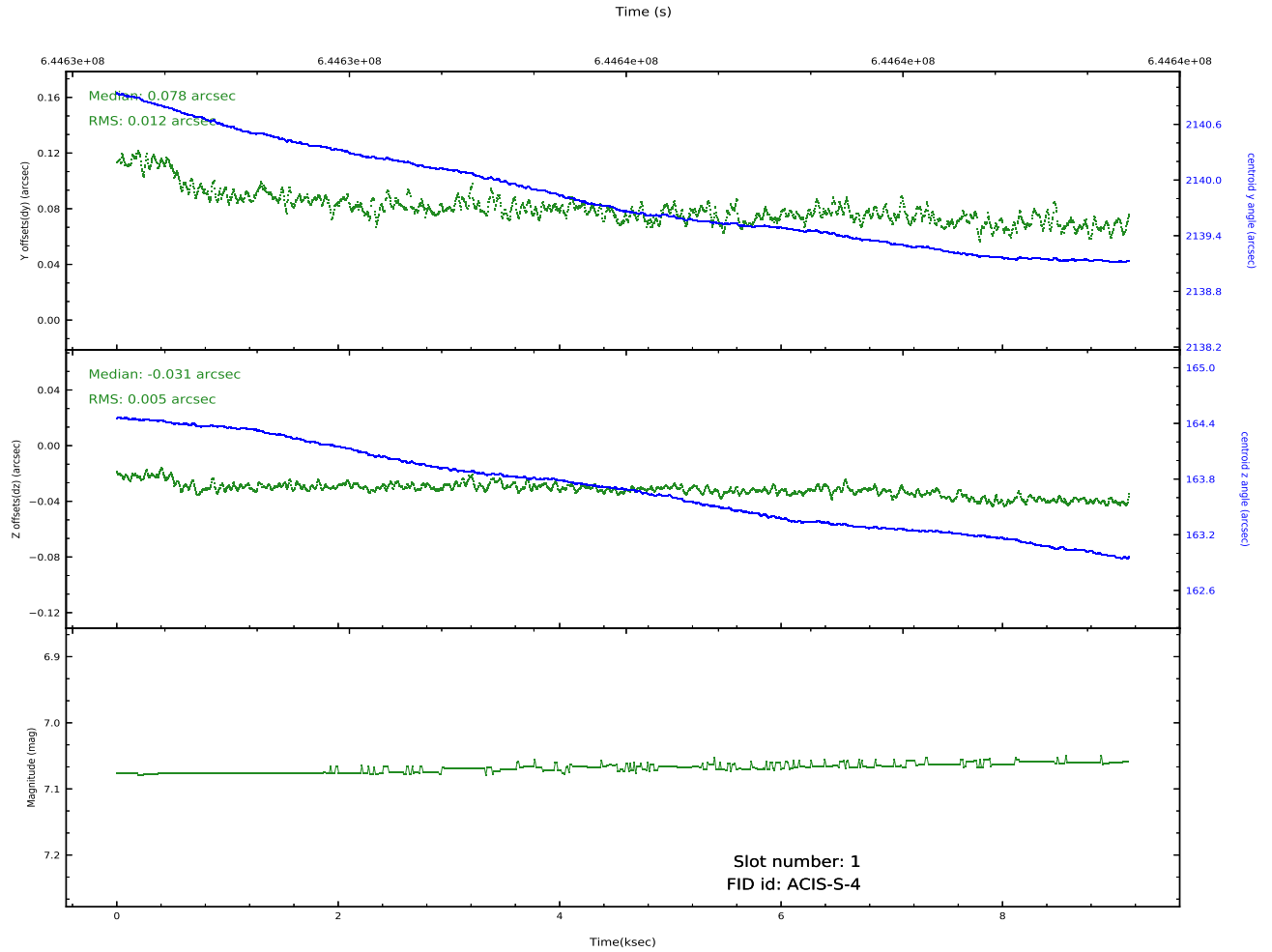
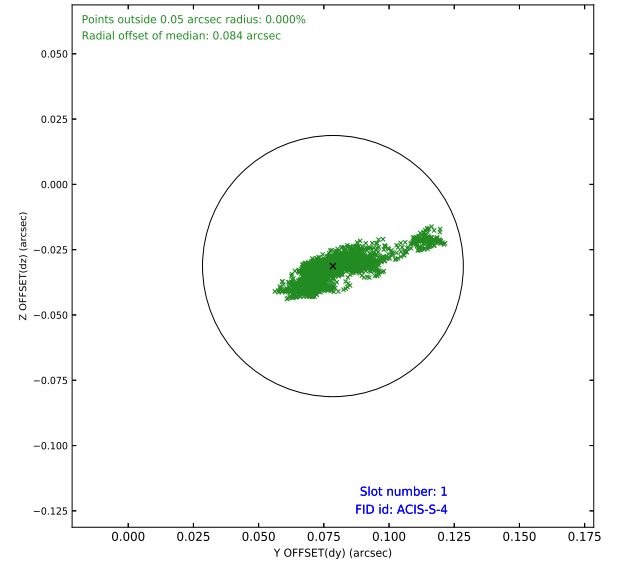
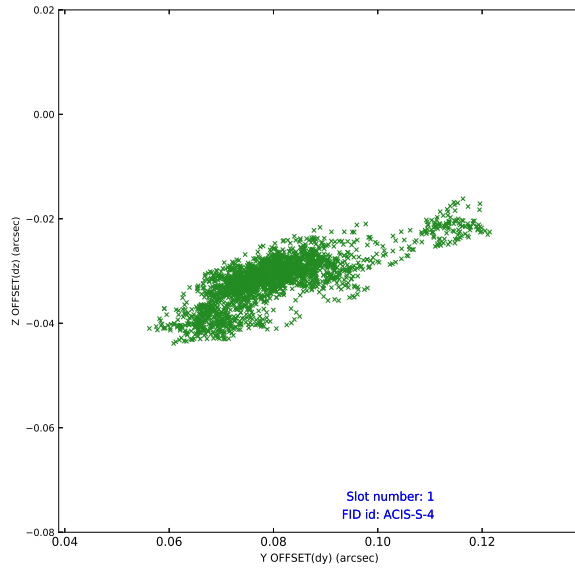


2.5 FID Slots

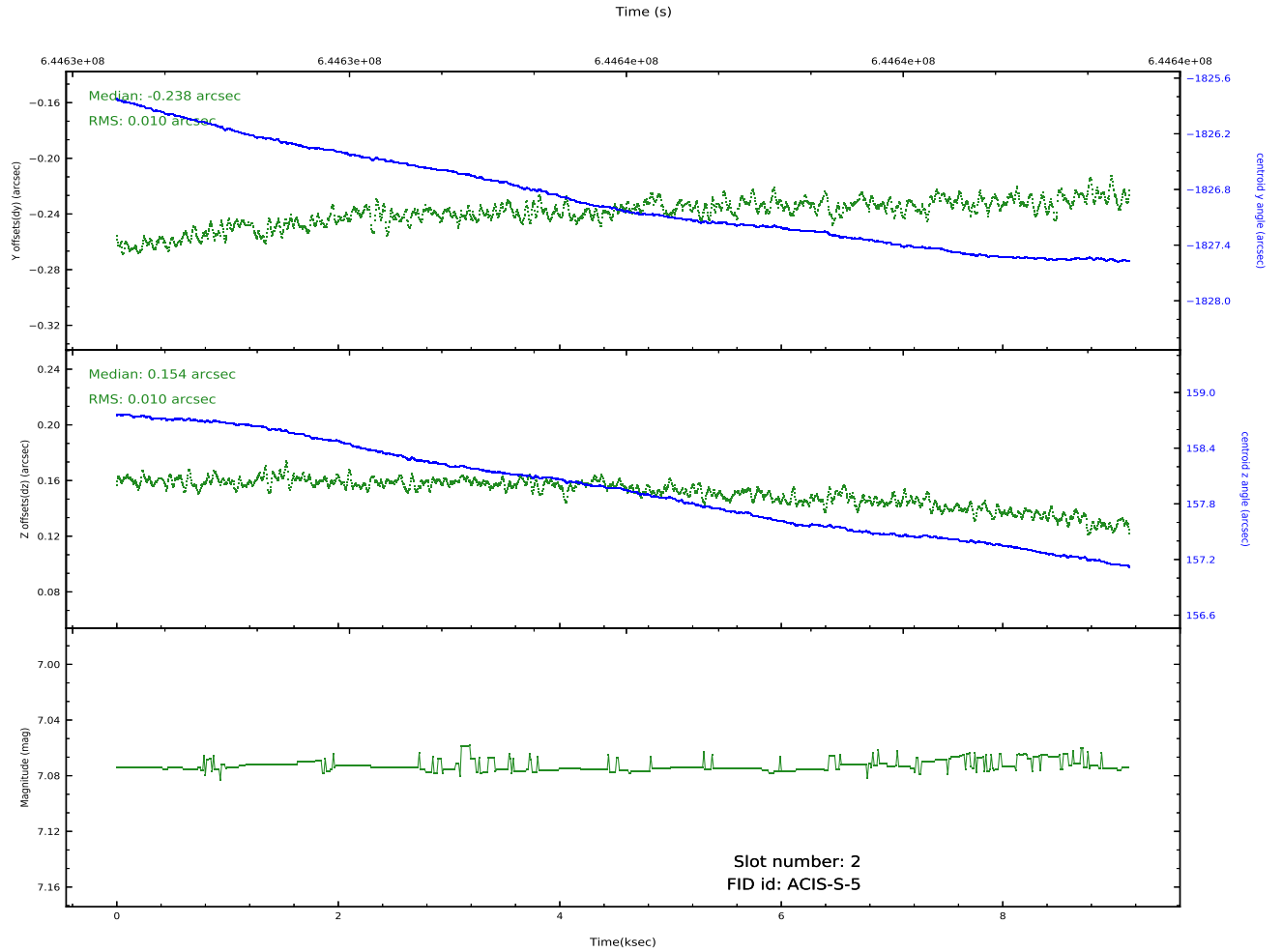
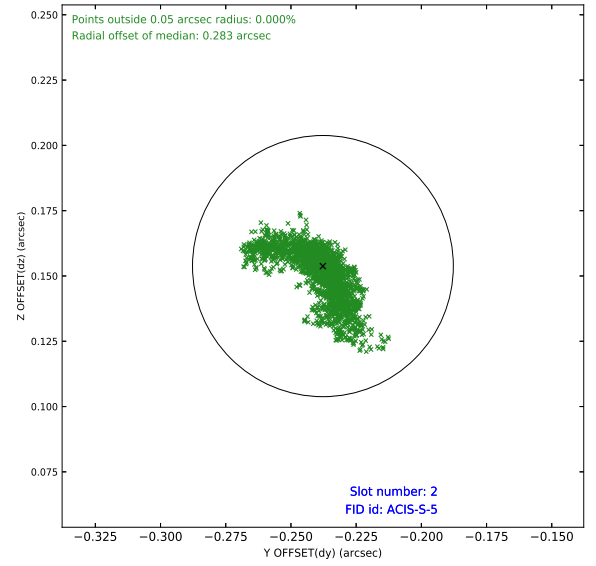
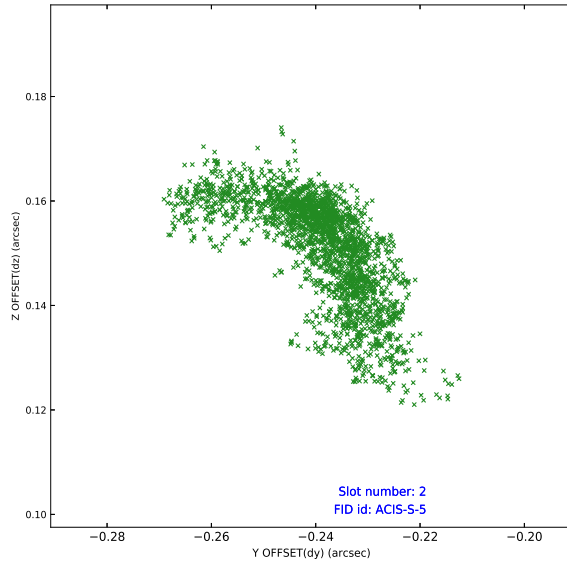
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0551000697613

A.2 Comments