

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19299 - L2 Version 2
Chandra X-Ray Center

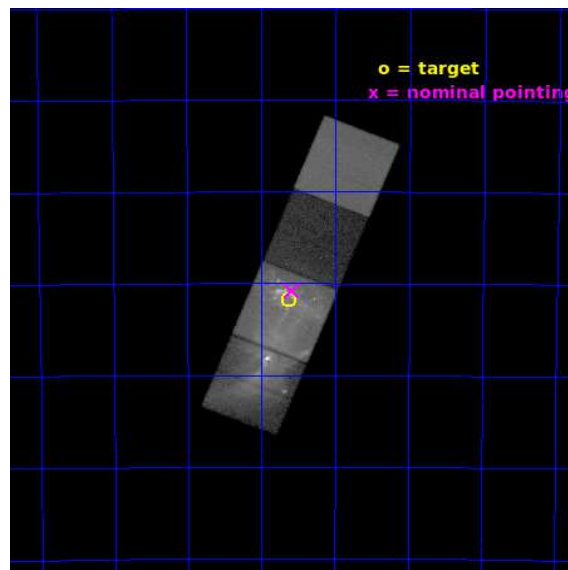
L2 Processing Date : Oct 24 2020

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1 Front

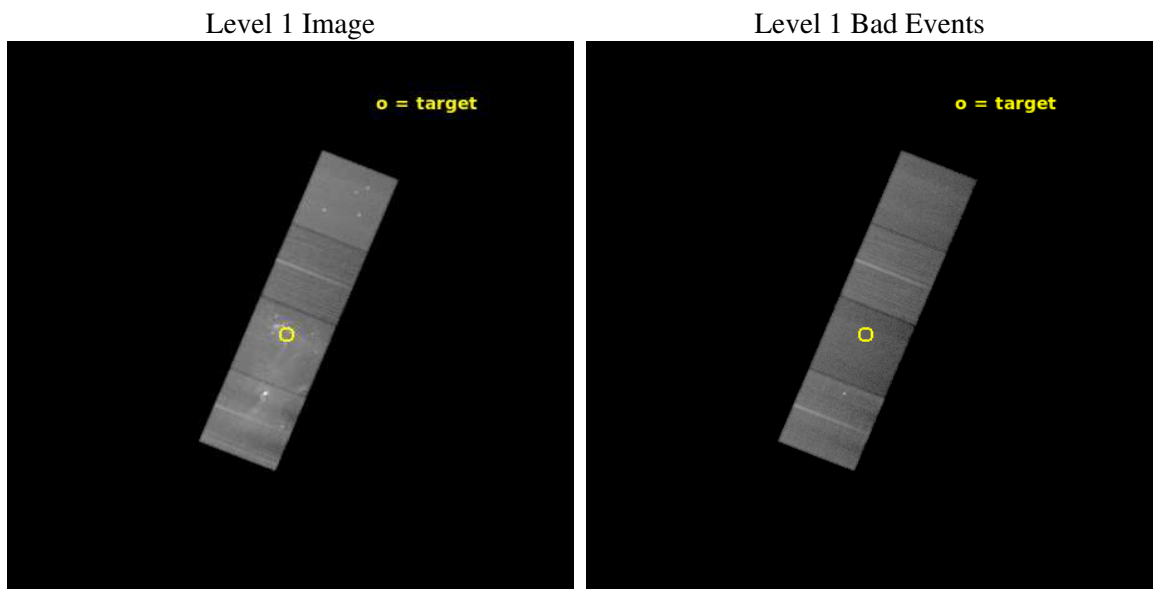
seq_num	502947	Sequence number
obs_id	19299	Observation id
title	RCW 89: The key to a puzzling young supernova remnant	Proposal tit
observer	Kazimierz Borkowski	Principal investigator
object	RCW 89	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.4053	Observer's specified target RA [deg]
dec_targ	-59.0295	Observer's specified target Dec [deg]
ra_nom	228.39635263084	Nominal RA [deg]
dec_nom	-59.013323506086	Nominal Dec [deg]
roll_nom	112.12719044982	Nominal Roll [deg]
revision	2	Processing version of data
ontime	44114.814378977	Sum of GTIs [s]
livetime	43538.421852262	Livetime [s]
ontime5	44114.773339033	Sum of GTIs [s]
ontime6	44108.450358391	Sum of GTIs [s]
ontime7	44114.814378977	Sum of GTIs [s]
ontime8	44108.409417868	Sum of GTIs [s]
l2events	786939	Number of level 2 events



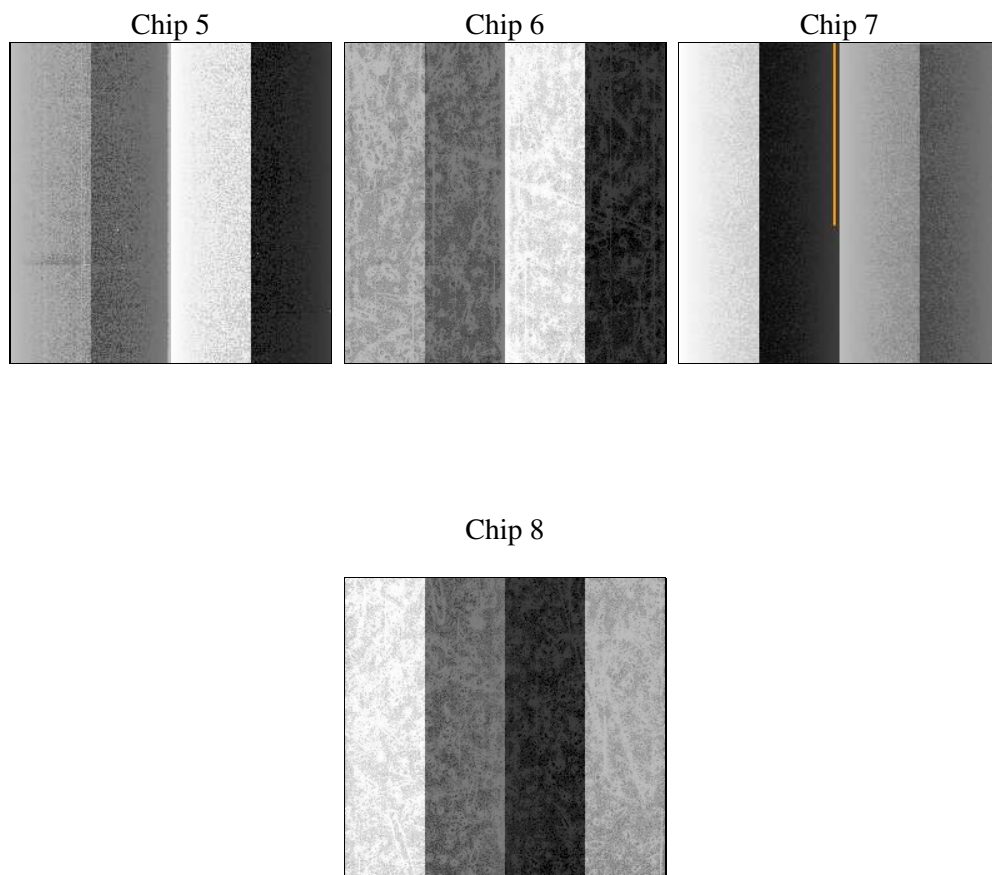
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	44114.814378977	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	44114.773339033	Sum of GTIs [s]
date	2020-10-24T05:28:18	Date and time of file creation	ontime6	44108.450358391	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	44114.814378977	Sum of GTIs [s]
			ontime8	44108.409417868	Sum of GTIs [s]
			l1events	1813194	Number of level 1 events

2.1.4 Events

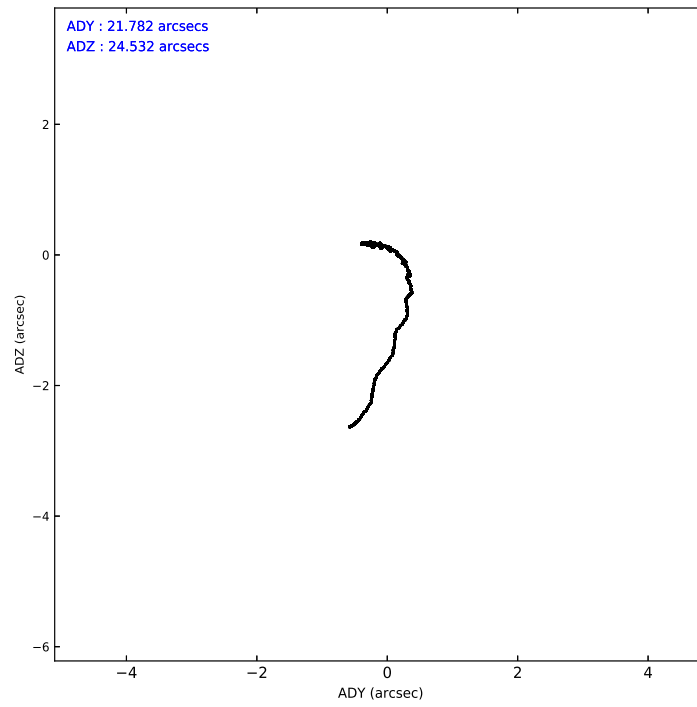
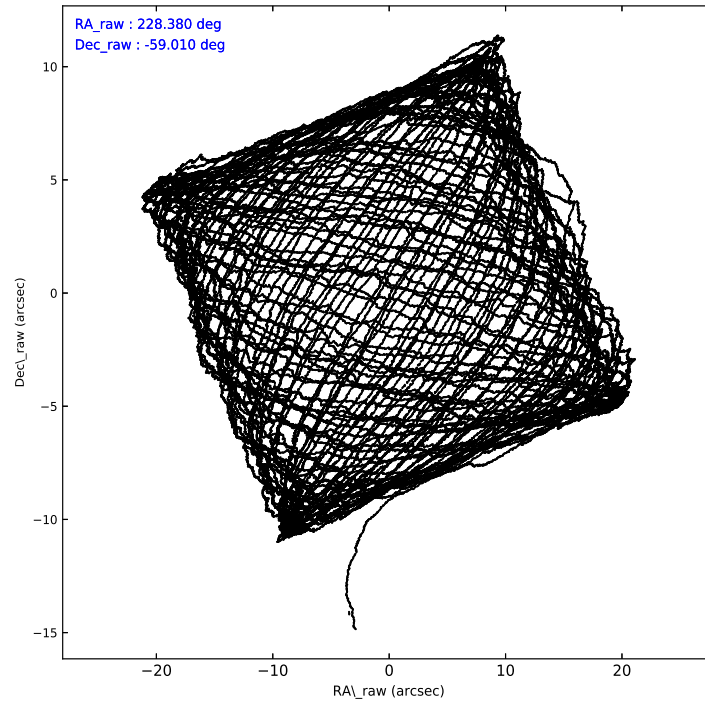
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	421906	298843	519274	573171
rejected events	202428	260311	167356	277237
rejected %	47%	87%	32%	48%

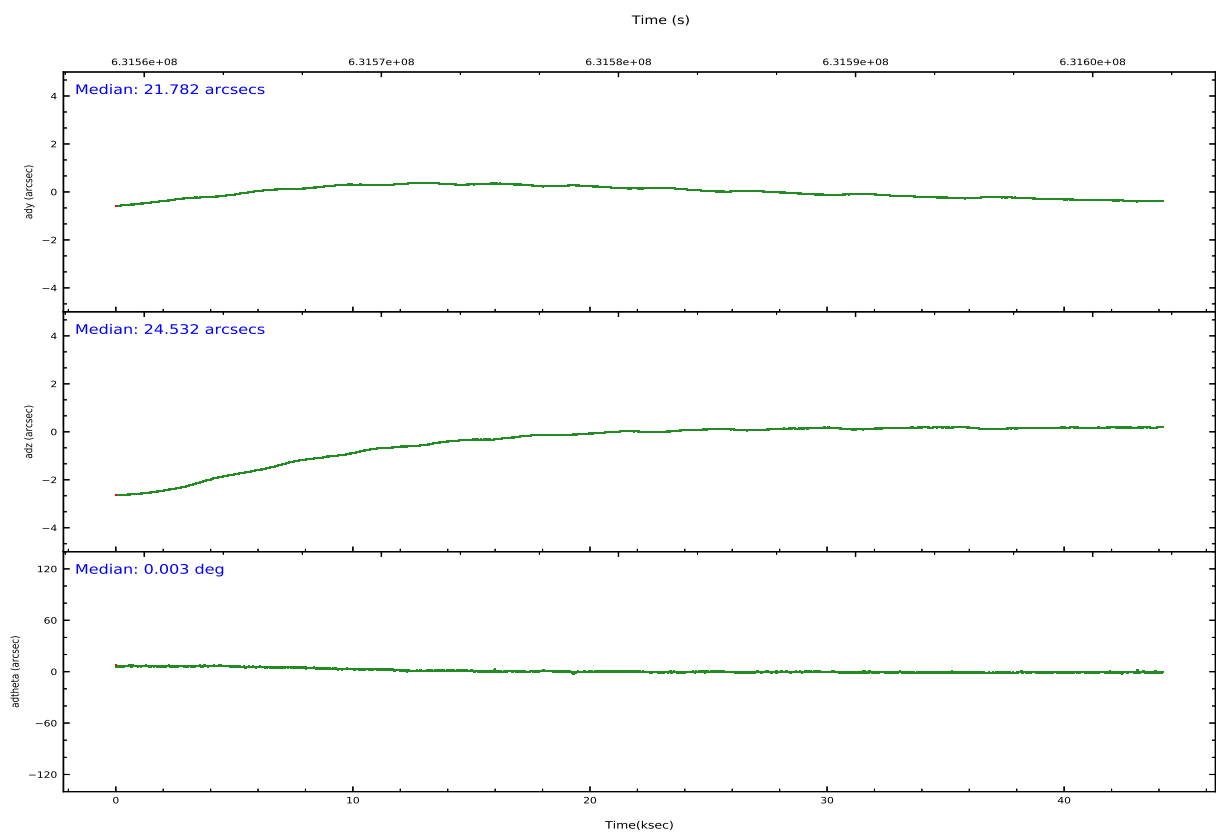
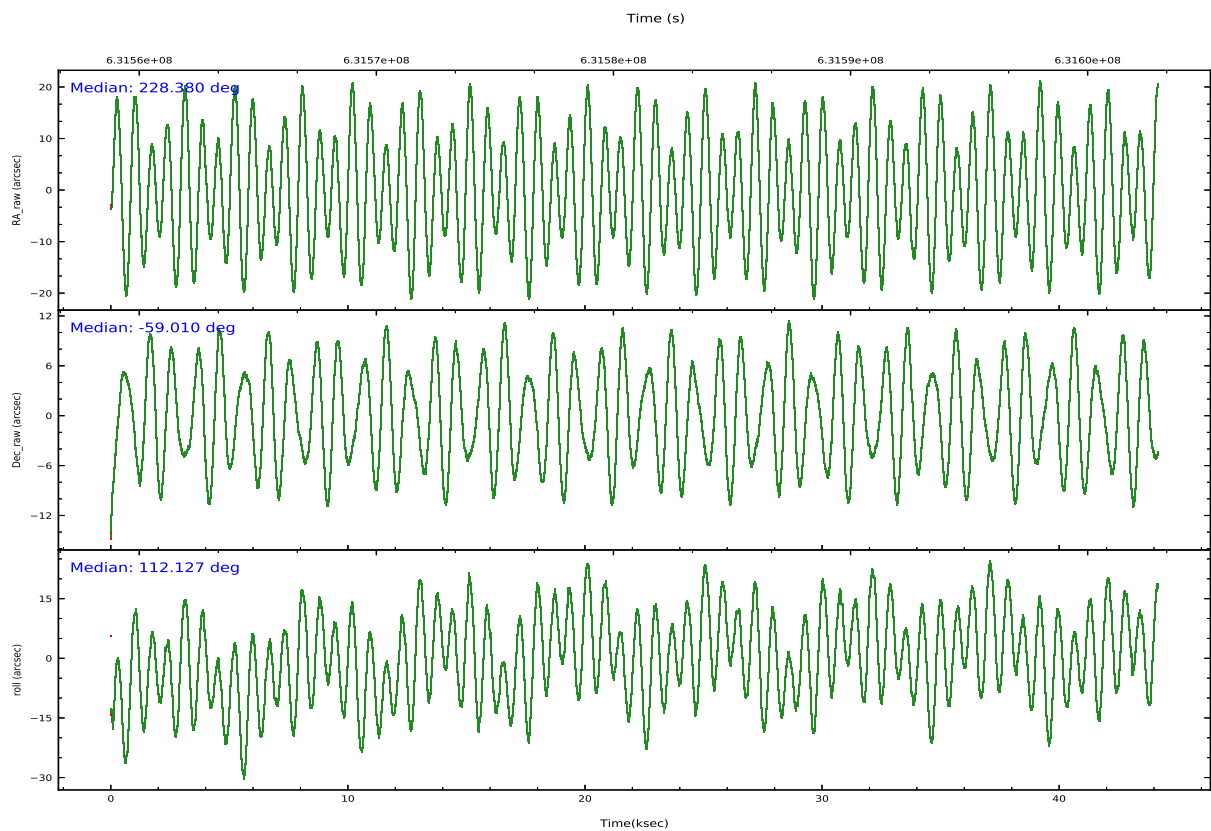
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	19485	16188	66961	170003
	4%	5%	12%	29%
grade 1 events	1257	162	626	1409
	0%	0%	0%	0%
grade 2 events	70324	8296	87779	49677
	16%	2%	16%	8%
grade 3 events	7752	3410	35820	19312
	1%	1%	6%	3%
grade 4 events	7461	3453	35292	18552
	1%	1%	6%	3%
grade 5 events	31289	11645	34446	19502
	7%	3%	6%	3%
grade 6 events	114466	7189	126094	38411
	27%	2%	24%	6%
grade 7 events	169872	248500	132256	256305
	40%	83%	25%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	228.421760	228.39635263084	Subarray requested	NONE	NONE
[deg] Pointing Dec	-59.026662	-59.013323506086	Alternating exposures requested	N	N
[deg] Pointing Roll	112.014108	112.12719044982	[s] Primary exposure time	0.000000	3.1
[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)	631558975.184000	631557970.0634201			
Observation start date	2018-01-05T17:01:46	2018-01-05T16:46:10			
[s] Observation end time (MET)	631602975.184000	631603876.74112			
Observation end date	2018-01-06T05:15:06	2018-01-06T05:31:16			
Read mode	TIMED	TIMED			

2.3 Aspect



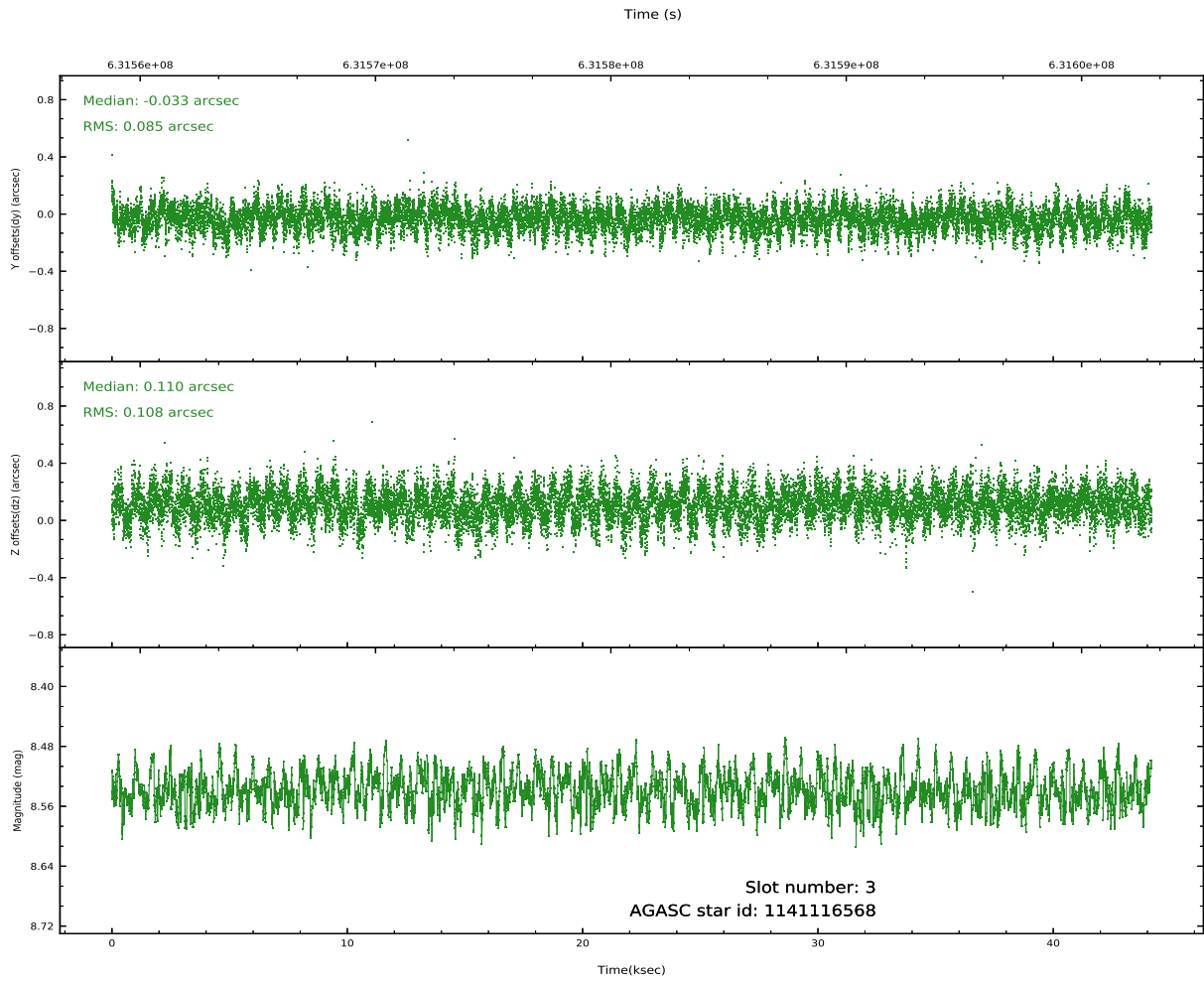
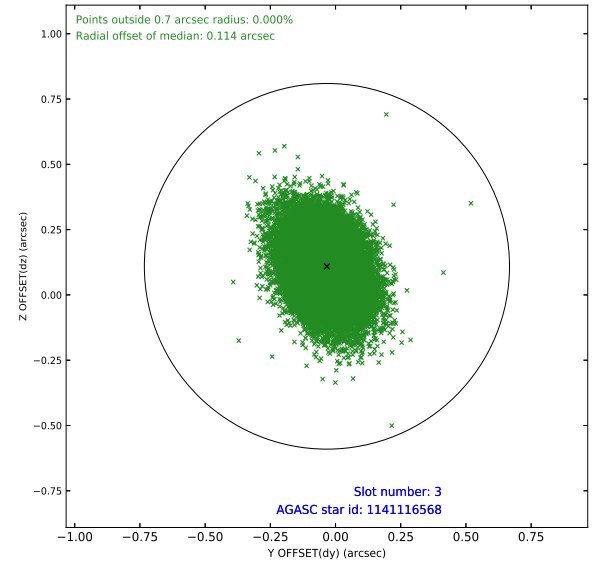
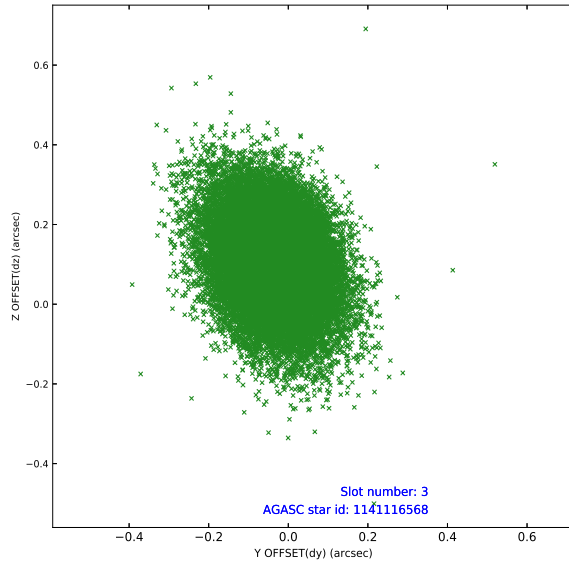


Slot Statistics

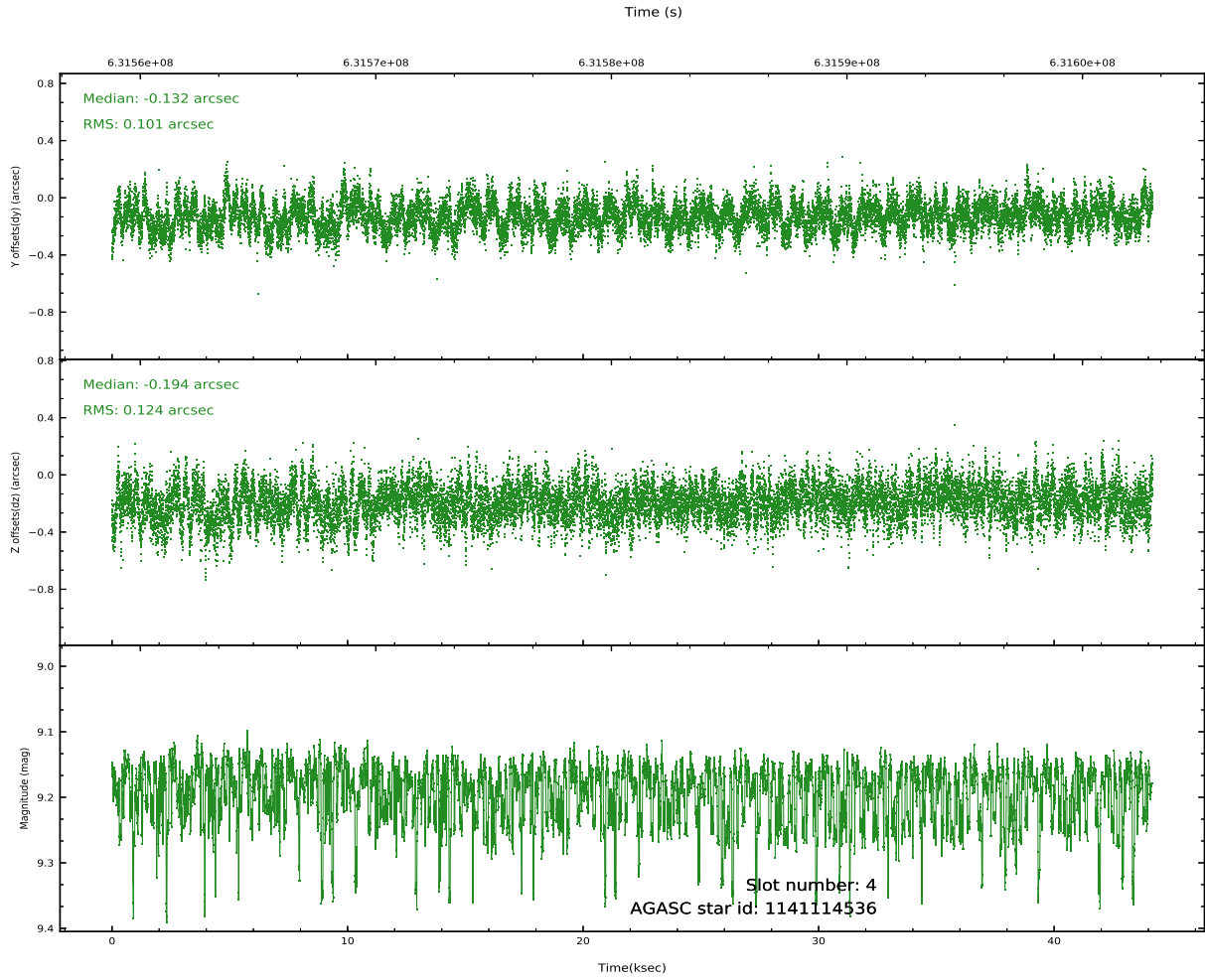
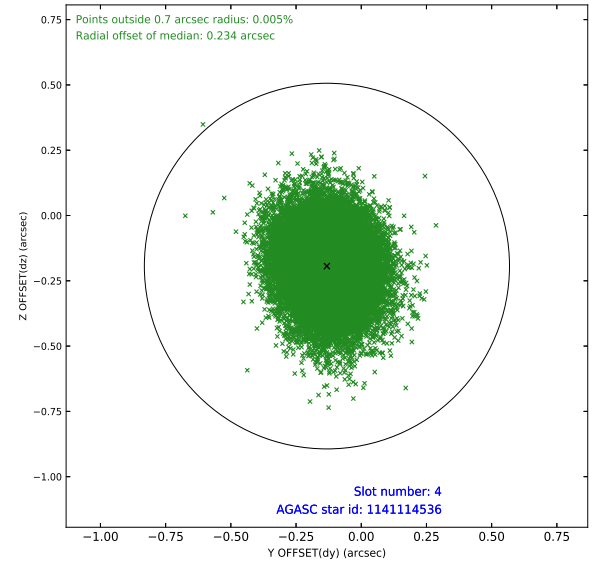
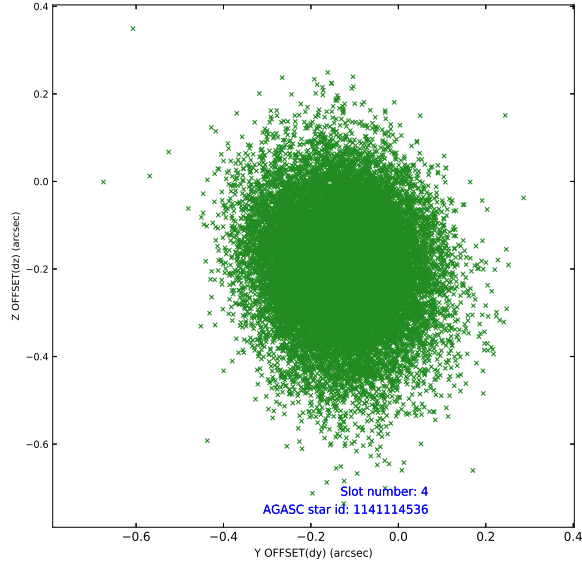
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.96	10774	1.000	0.128	-0.032	0.028	0.083	0.000000	0.000000	-775.00	-1745
1	FID		ACIS-S-4	7.05	10774	1.000	0.067	-0.049	0.010	0.019	0.000000	0.000000	2138.44	162
2	FID		ACIS-S-5	7.07	10774	1.000	-0.228	0.091	0.031	0.077	0.000000	0.000000	-1827.97	156
3	GUIDE	used	1141116568	8.54	21525	1.000	-0.033	0.110	0.144	0.239	228.578452	-58.520066	1580.29	-956
4	GUIDE	used	1141114536	9.18	21515	1.000	-0.132	-0.194	0.170	0.276	227.067565	-58.699394	2018.04	1916
5	GUIDE	used	1141114296	9.11	21514	1.000	-0.106	-0.089	0.194	0.311	227.097332	-58.697525	2004.55	1862
6	GUIDE	used	1141120488	8.72	21538	1.000	0.012	-0.011	0.135	0.224	228.236450	-59.504731	-1468.91	959
7	GUIDE	used	1141119896	8.33	21537	1.000	0.256	0.188	0.136	0.226	229.637327	-59.405643	-2118.06	-1545

2.4 Star Slots

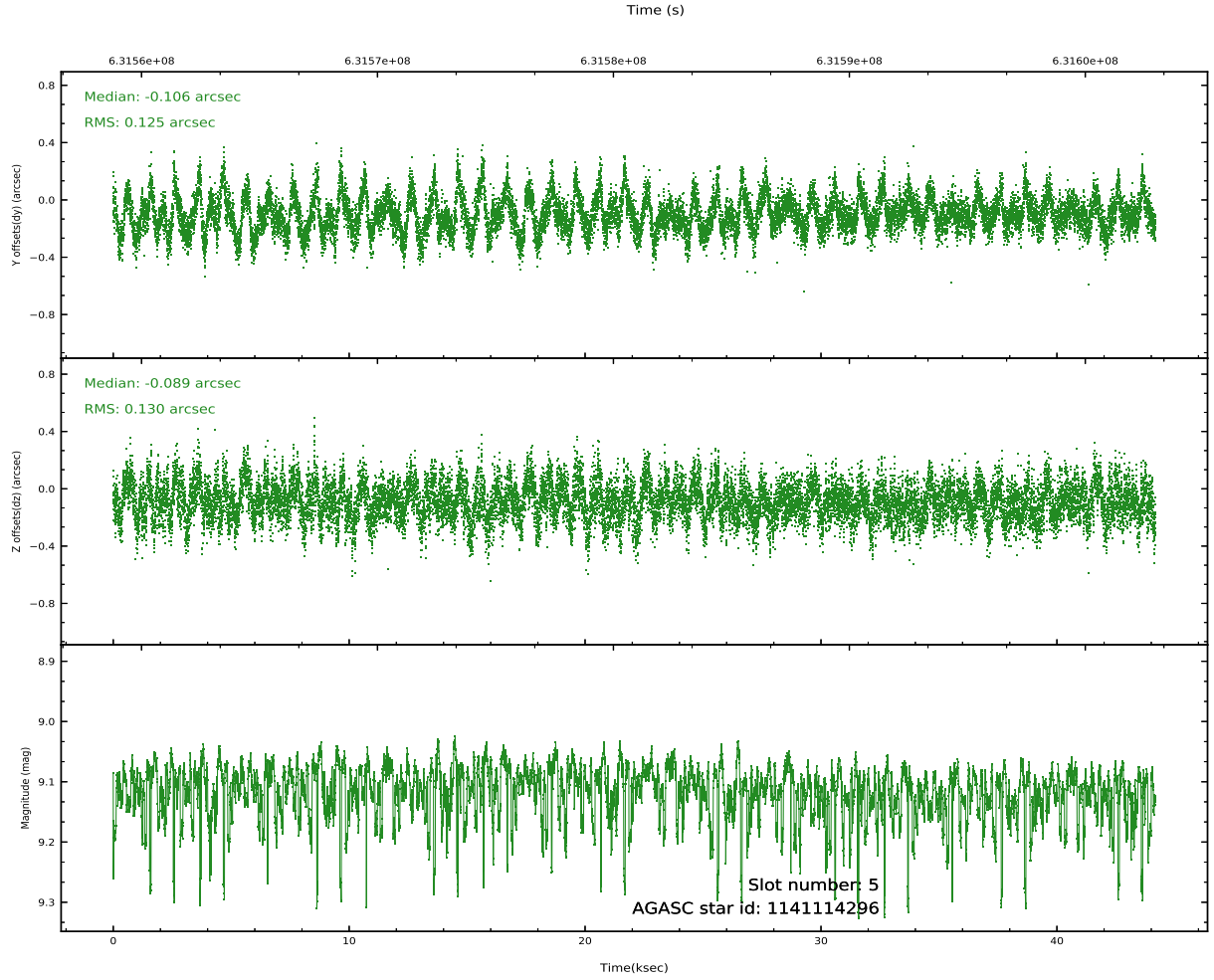
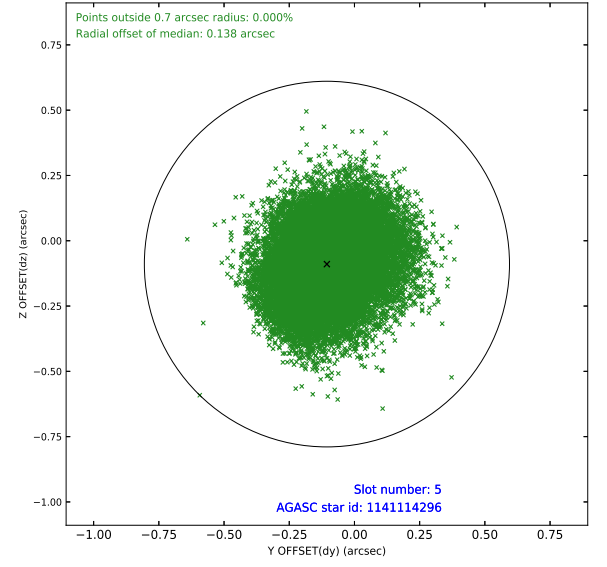
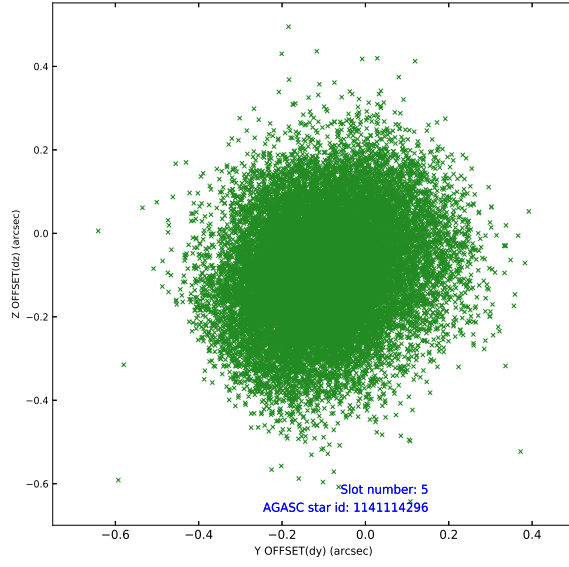
2.4.1 Slot 3



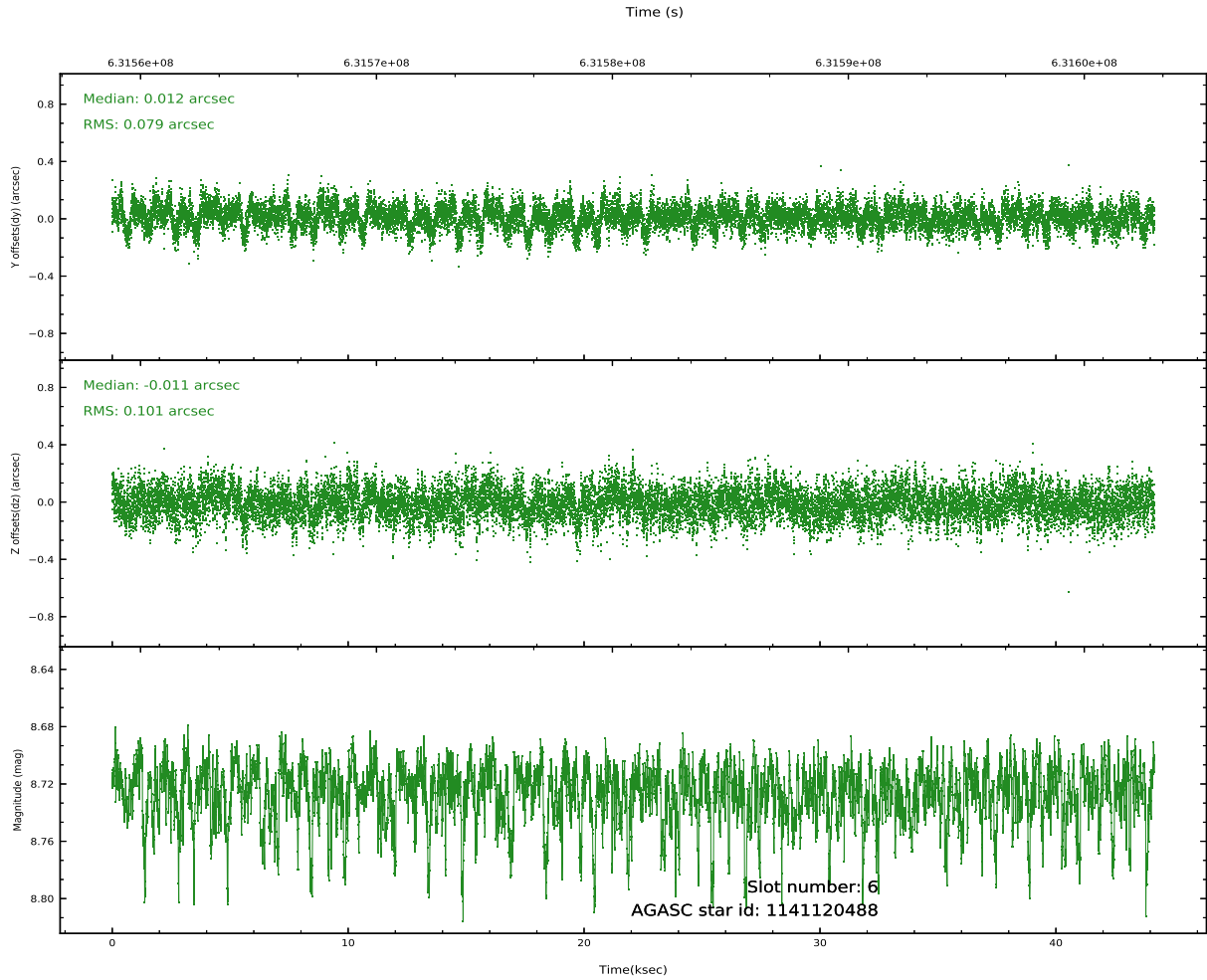
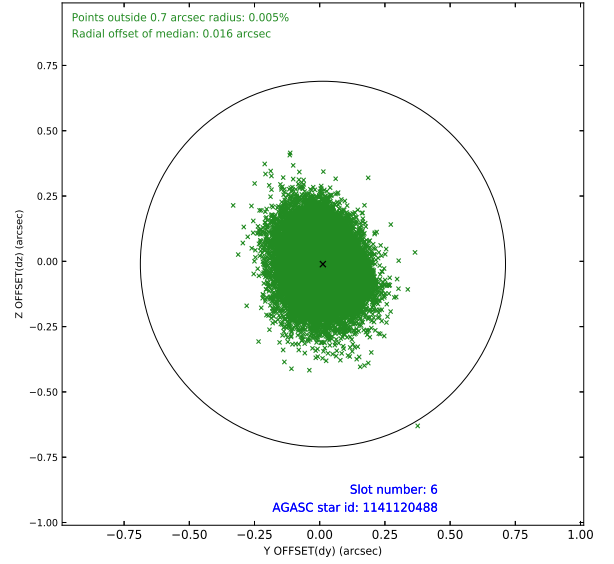
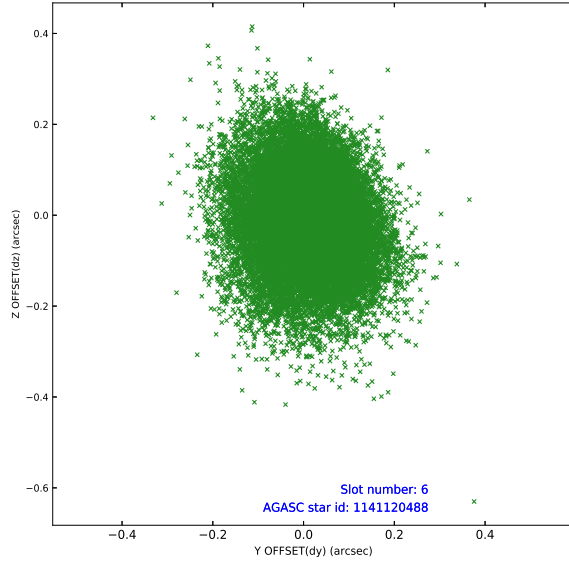
2.4.2 Slot 4



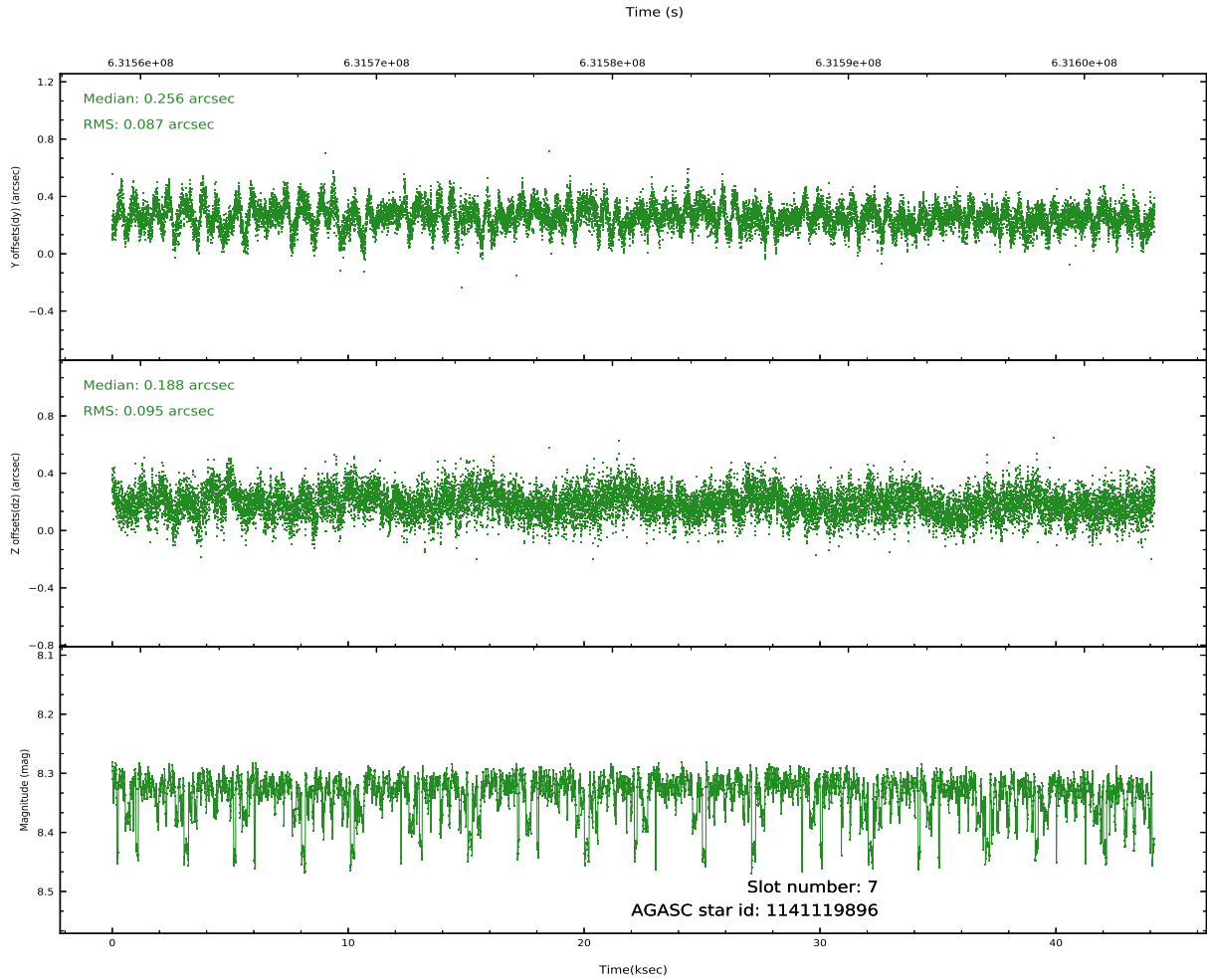
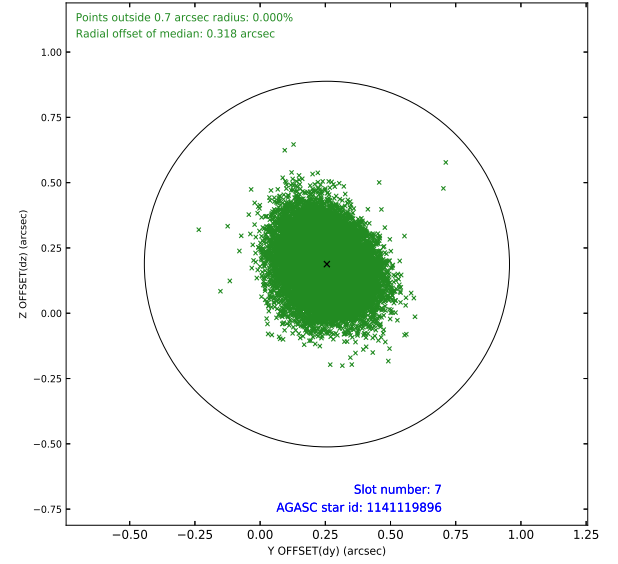
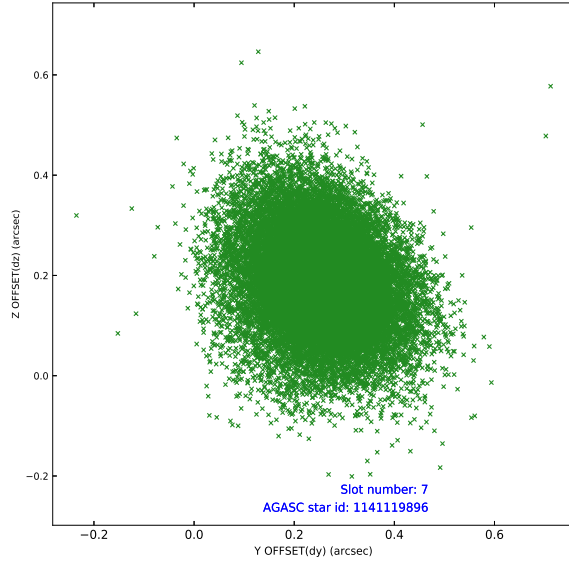
2.4.3 Slot 5



2.4.4 Slot 6

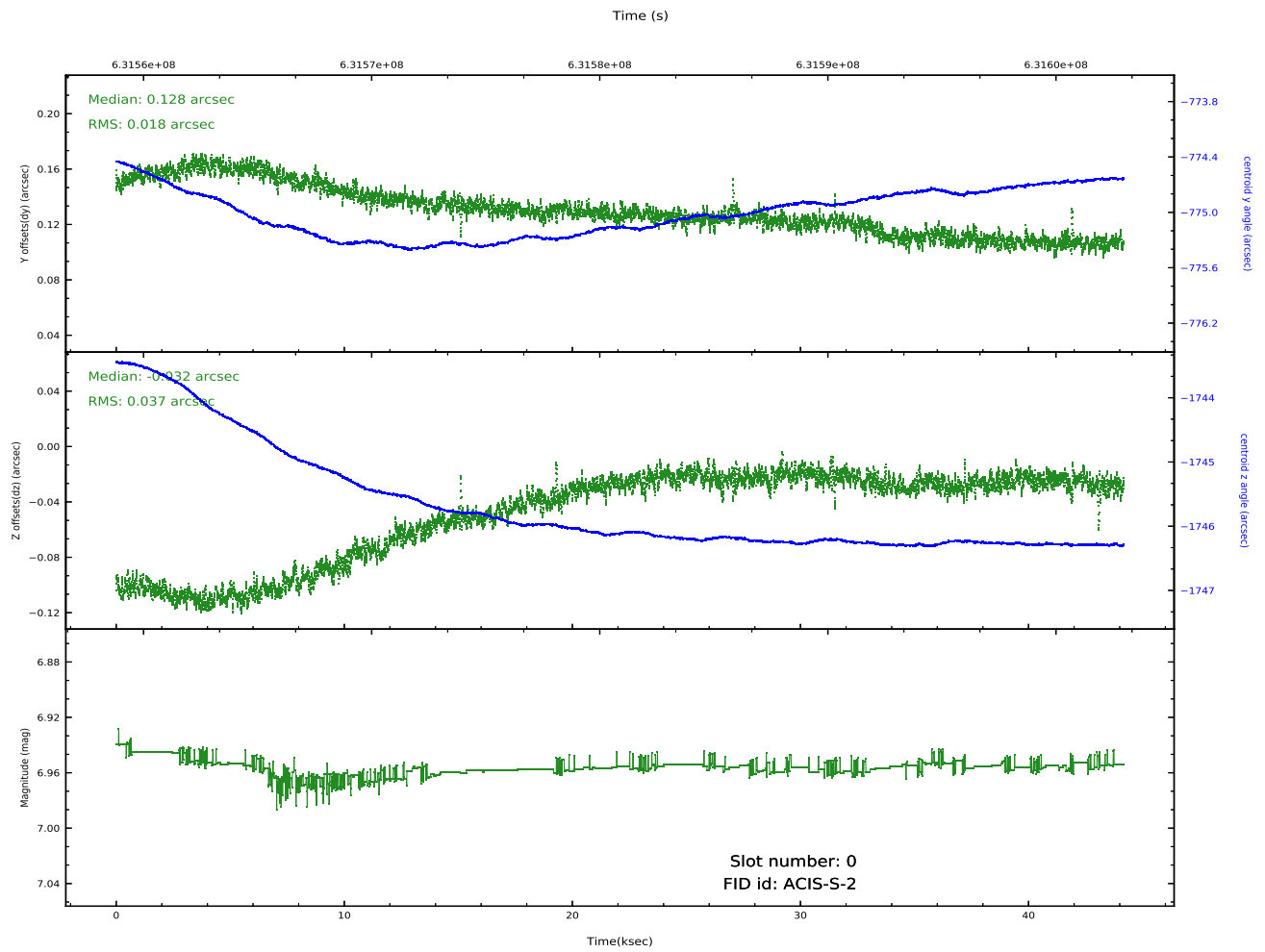
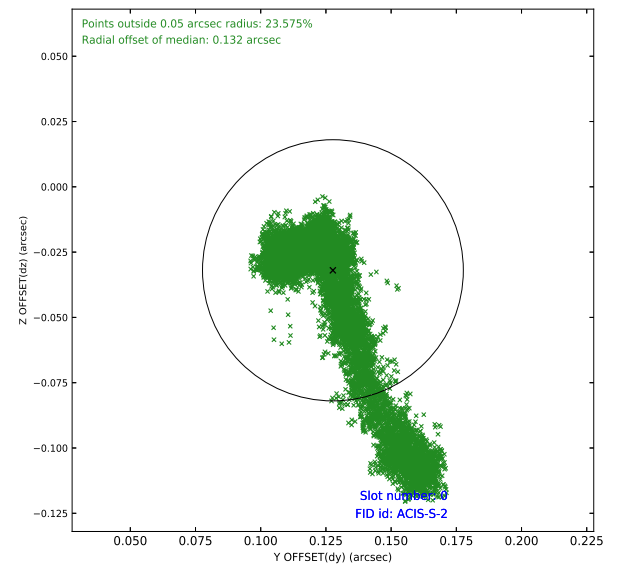
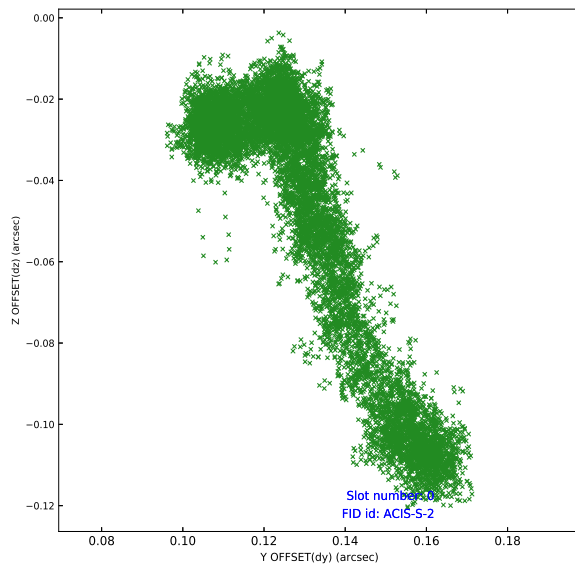


2.4.5 Slot 7

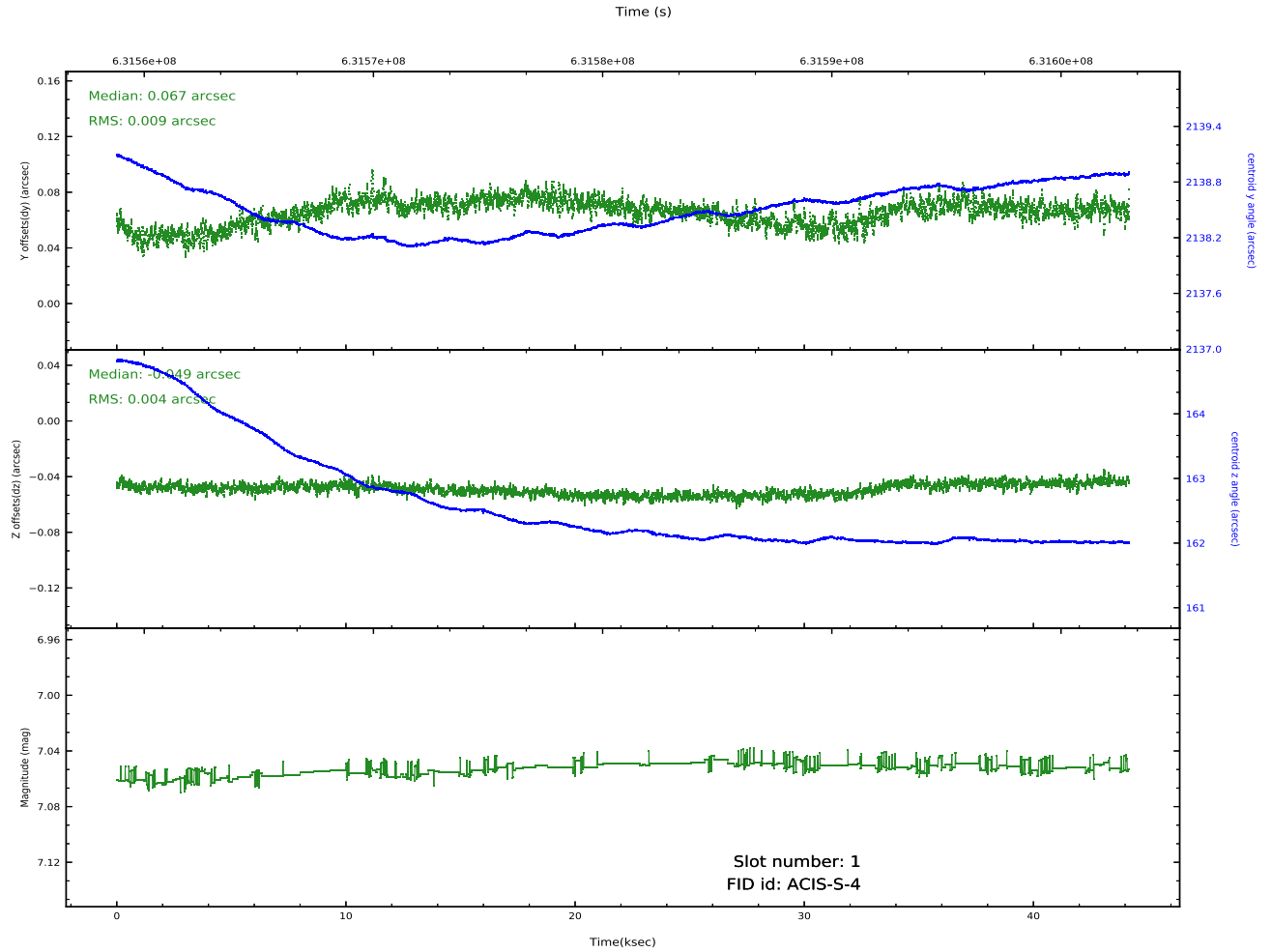
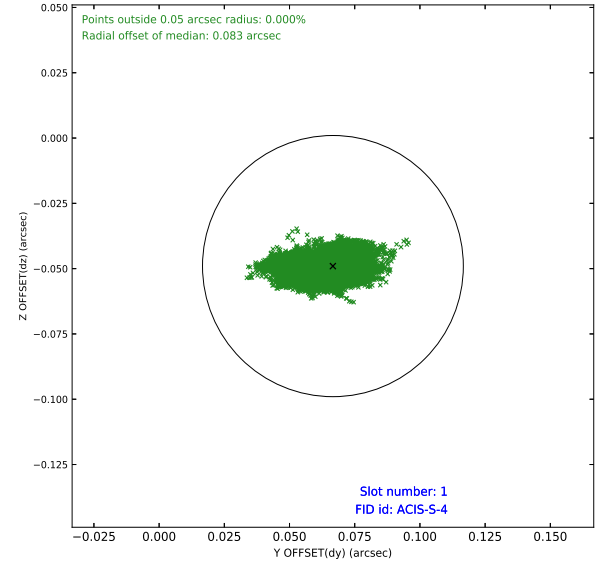
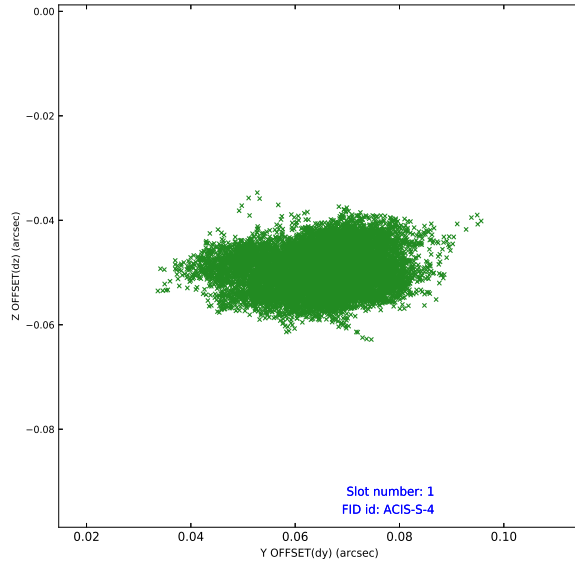


2.5 FID Slots

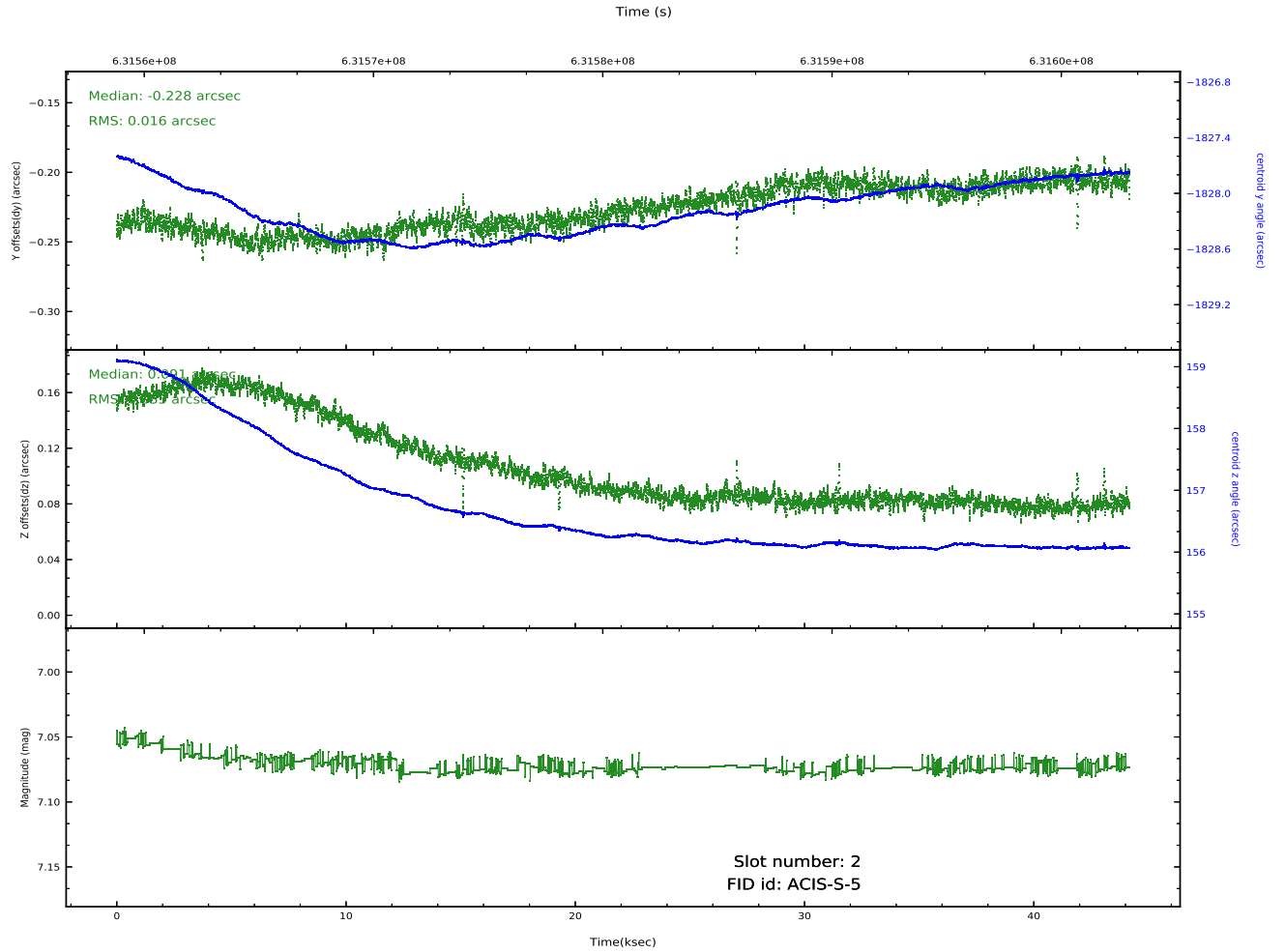
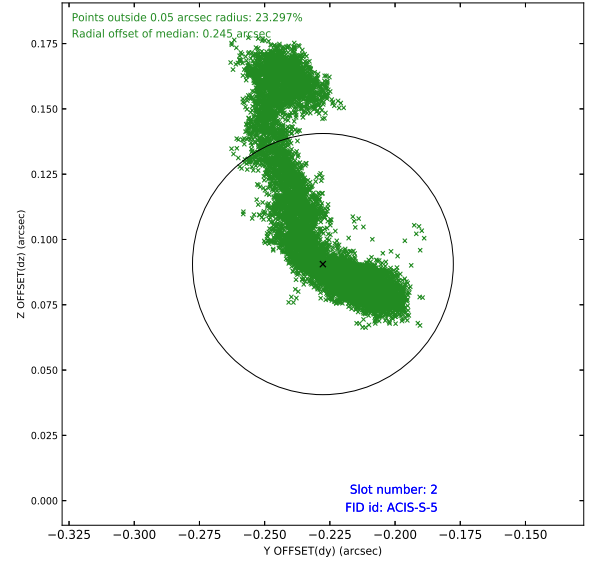
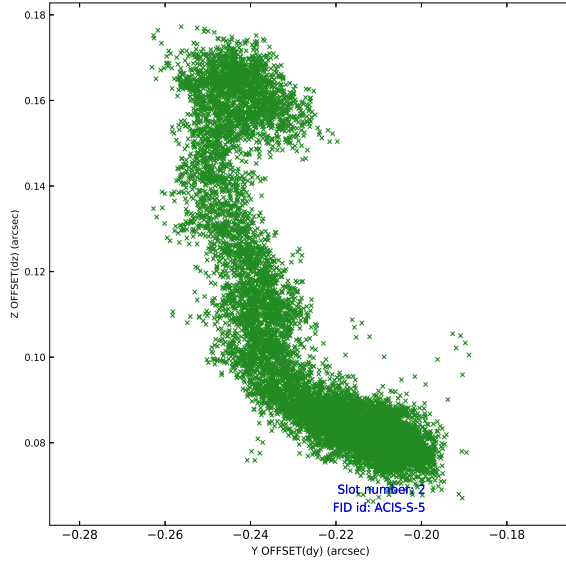
2.5.1 Slot 0



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)	2020.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	44.114814374804

A.2 Comments