

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19426 - L2 Version 2
Chandra X-Ray Center

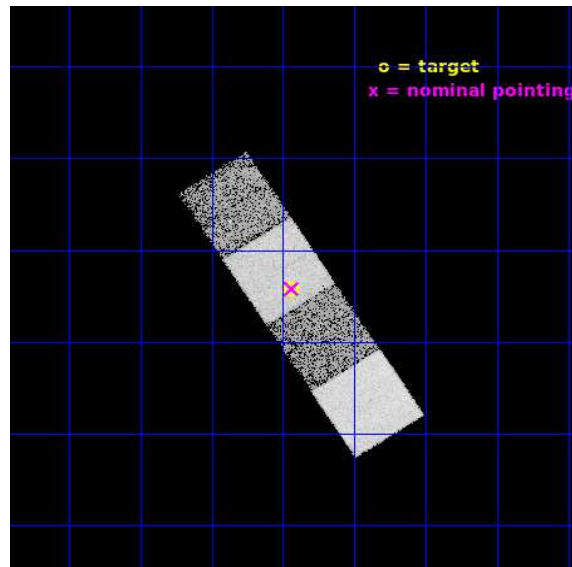
L2 Processing Date : Oct 25 2020

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1 Front

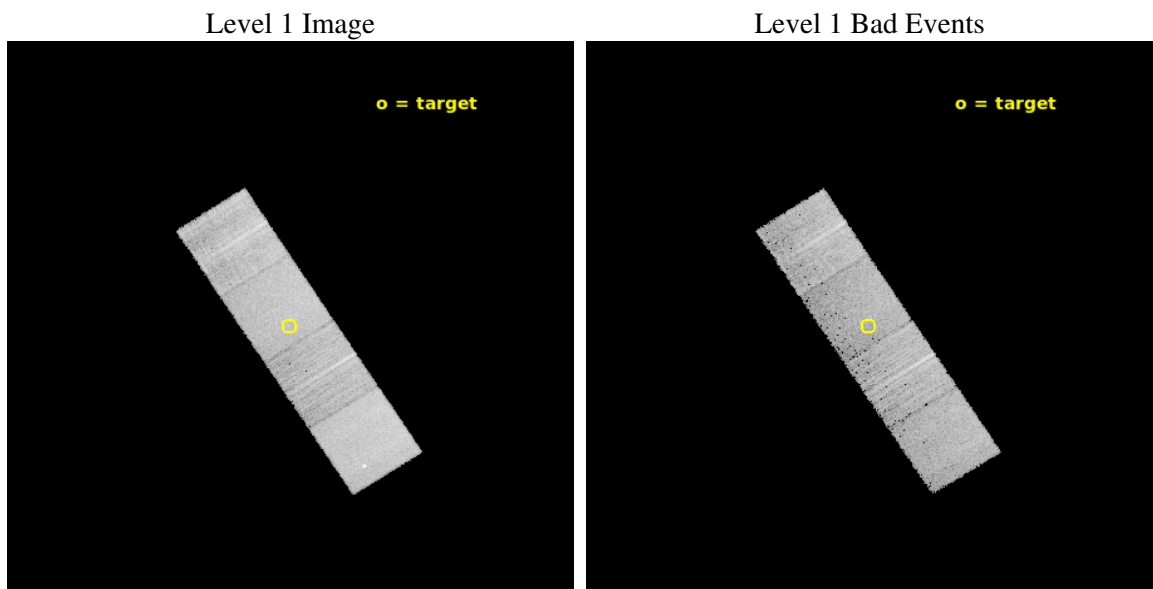
seq_num	601383	Sequence number
obs_id	19426	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4430	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.86	Observer's specified target RA [deg]
dec_targ	6.262778	Observer's specified target Dec [deg]
ra_nom	186.85947533135	Nominal RA [deg]
dec_nom	6.263690505851	Nominal Dec [deg]
roll_nom	237.13317219911	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7908.1000609398	Sum of GTIs [s]
livetime	7804.774911785	Livetime [s]
ontime5	7908.1000609398	Sum of GTIs [s]
ontime6	7908.1000609398	Sum of GTIs [s]
ontime7	7908.1000609398	Sum of GTIs [s]
ontime8	7895.5359199047	Sum of GTIs [s]
l2events	85519	Number of level 2 events



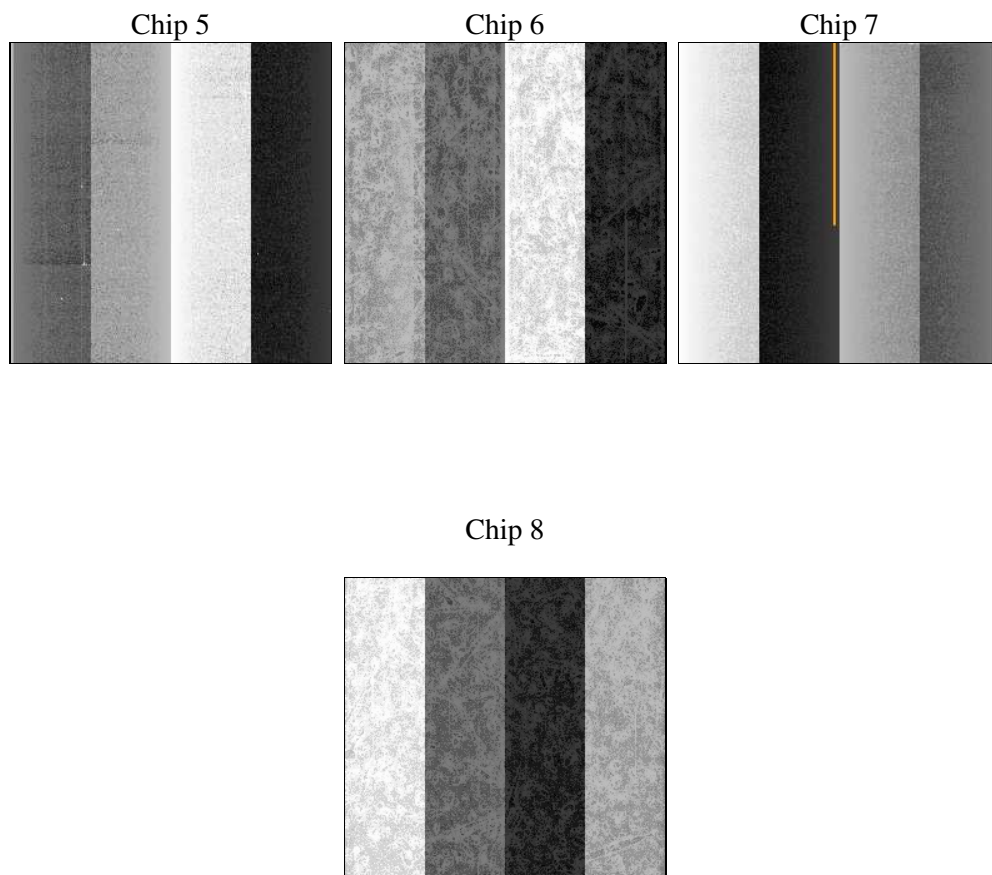
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	7908.1000609398	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	7908.1000609398	Sum of GTIs [s]
date	2020-10-25T21:04:11	Date and time of file creation	ontime6	7908.1000609398	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	7908.1000609398	Sum of GTIs [s]
			ontime8	7895.5359199047	Sum of GTIs [s]
			l1events	303508	Number of level 1 events

2.1.4 Events

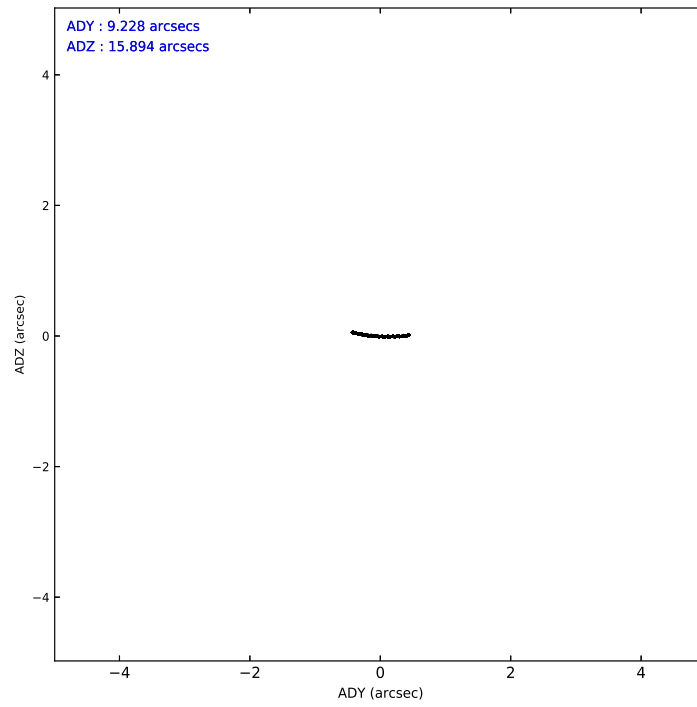
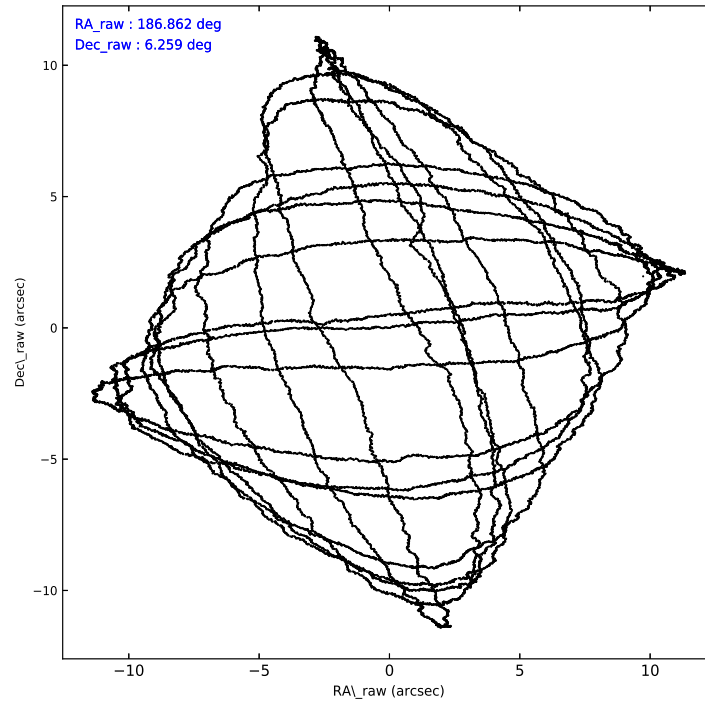
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	91876	60681	74981	75970
rejected events	48155	54033	42631	56324
rejected %	52%	89%	56%	74%

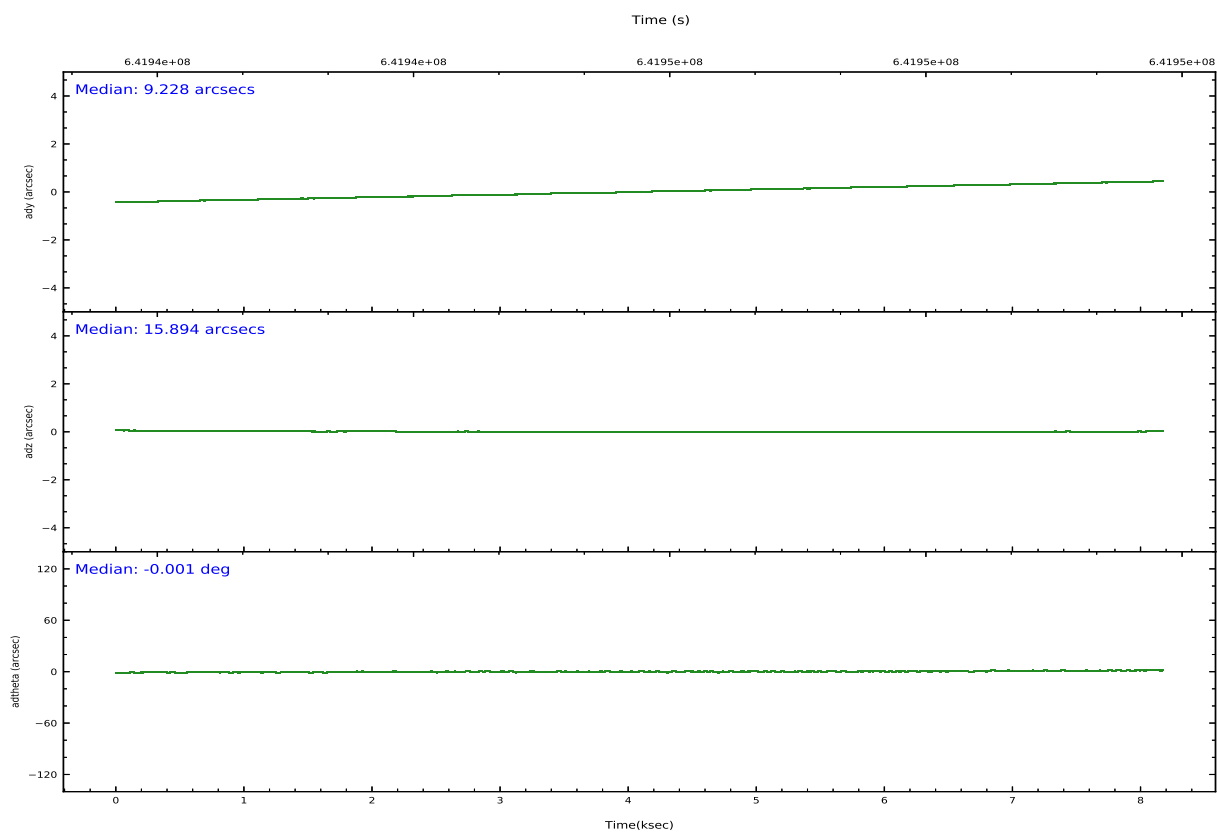
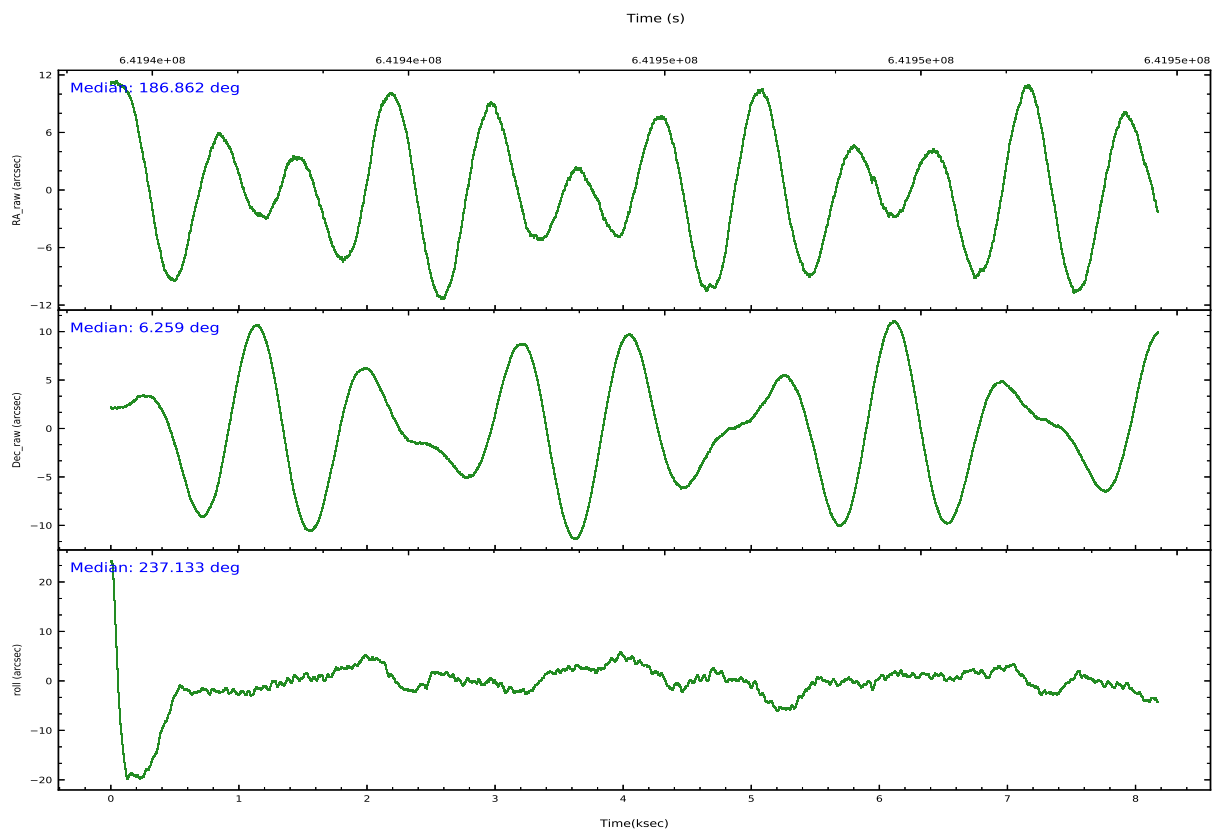
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2814	2153	2810	5475
	3%	3%	3%	7%
grade 1 events	179	20	113	67
	0%	0%	0%	0%
grade 2 events	13701	1592	6799	4895
	14%	2%	9%	6%
grade 3 events	1332	655	2551	1920
	1%	1%	3%	2%
grade 4 events	1256	659	2595	1827
	1%	1%	3%	2%
grade 5 events	6284	2637	7461	4140
	6%	4%	9%	5%
grade 6 events	24638	1590	17606	5565
	26%	2%	23%	7%
grade 7 events	41672	51375	35046	52081
	45%	84%	46%	68%

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	186.862834	186.85947533135	Subarray requested	NONE	NONE
[deg] Pointing Dec	6.286353	6.263690505851	Alternating exposures requested	N	N
[deg] Pointing Roll	236.983827	237.13317219911	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	641941851.184000	641941378.52553			
Observation start date	2018-05-05T21:09:42	2018-05-05T21:02:58			
[s] Observation end time (MET)	641949851.184000	641950095.12604			
Observation end date	2018-05-05T23:23:02	2018-05-05T23:28:15			
Read mode	TIMED	TIMED			

2.3 Aspect



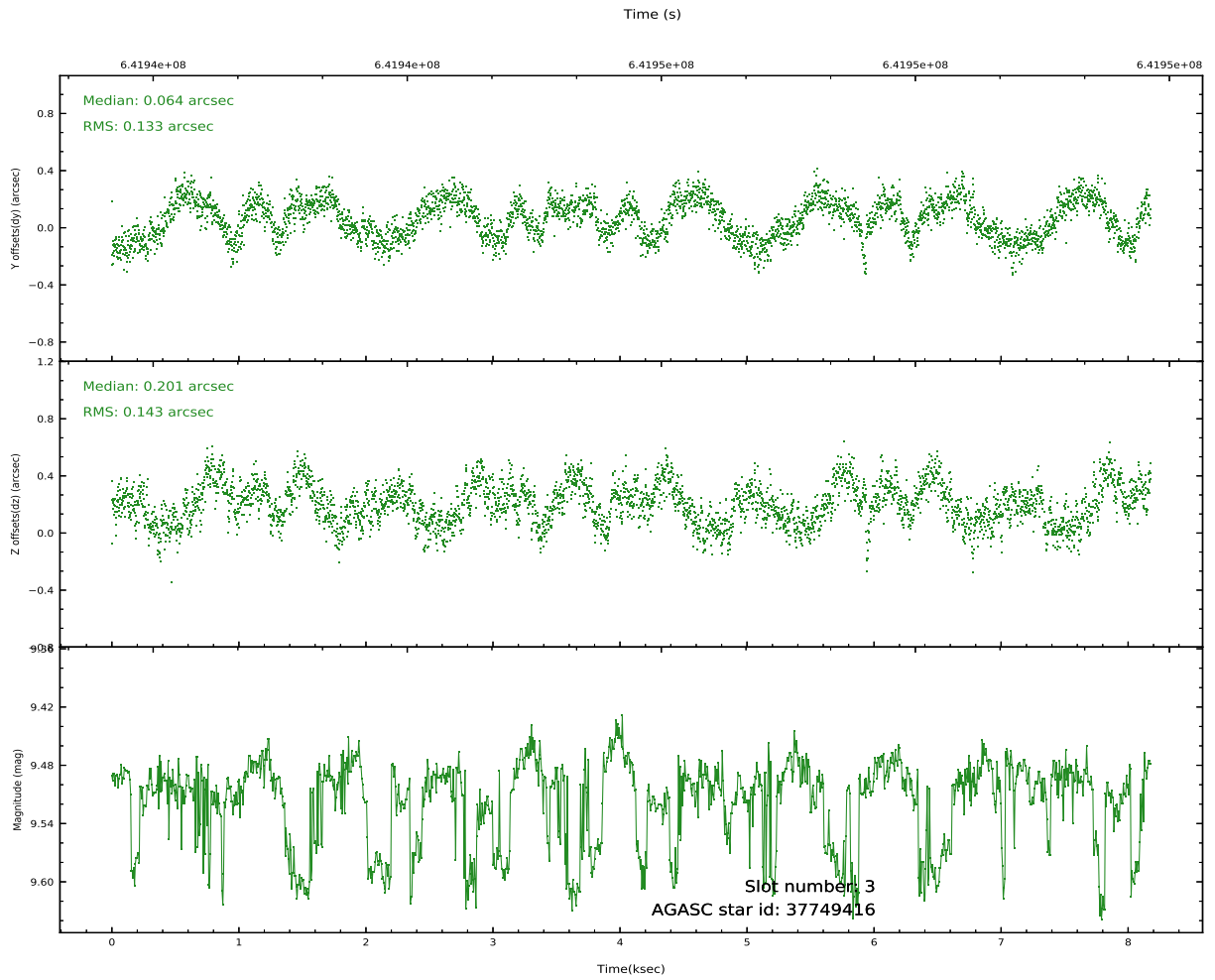
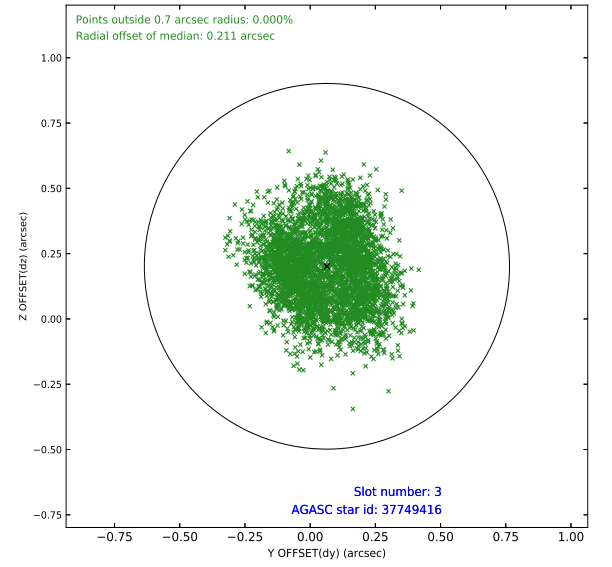
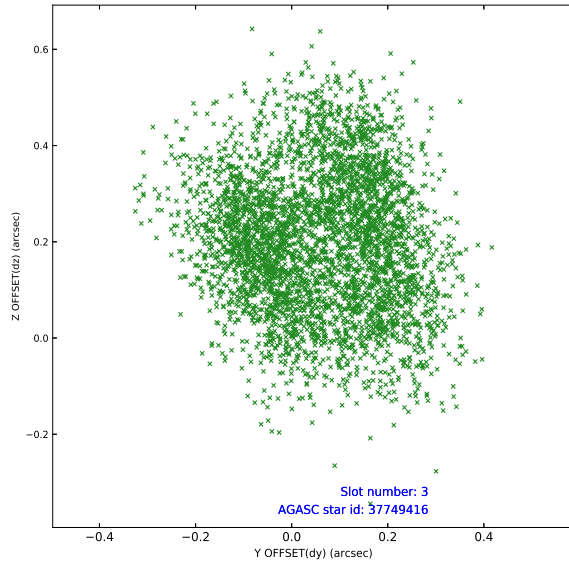


Slot Statistics

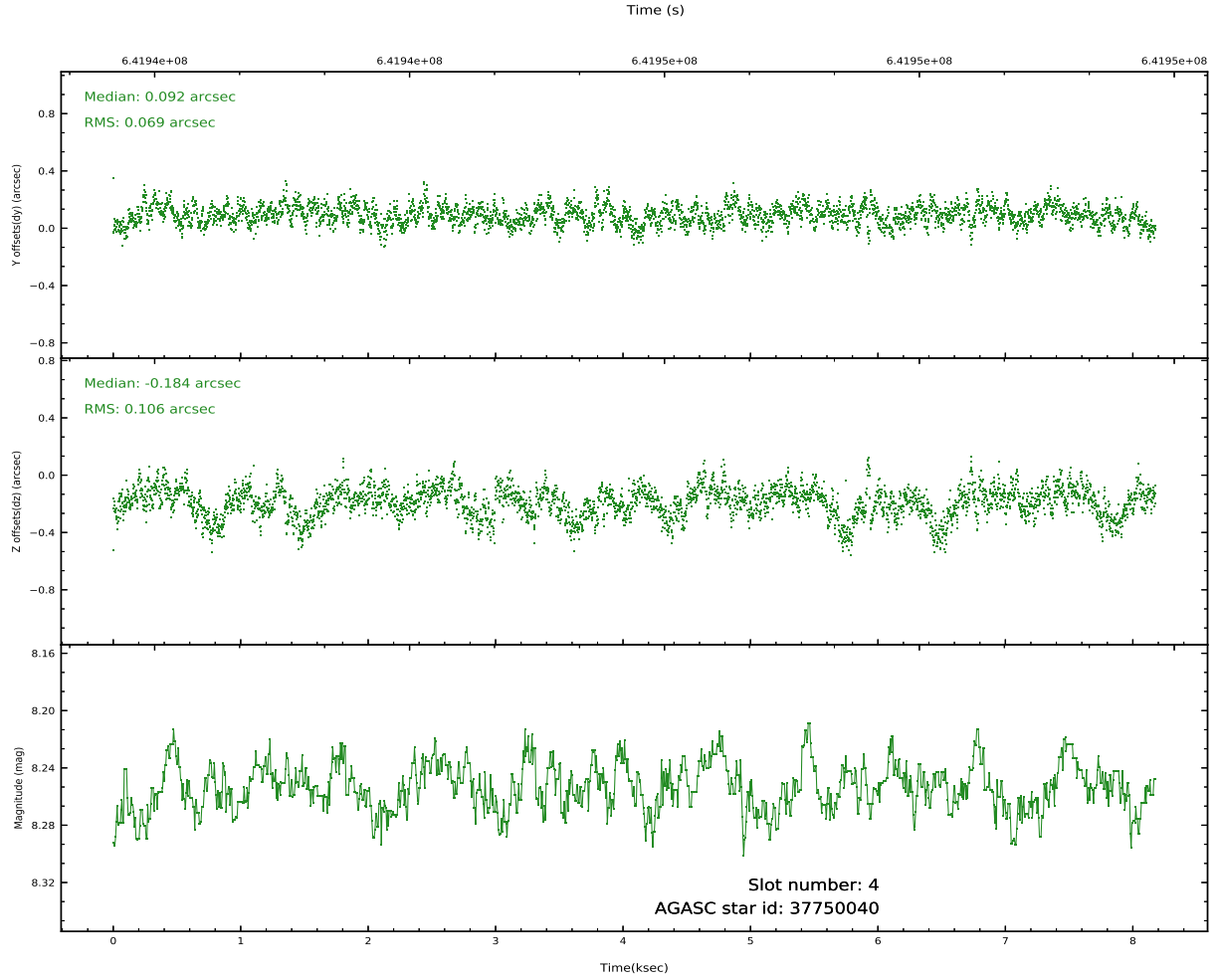
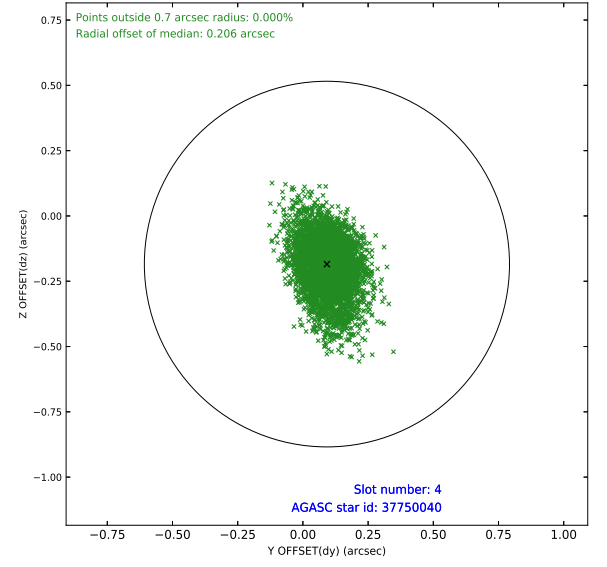
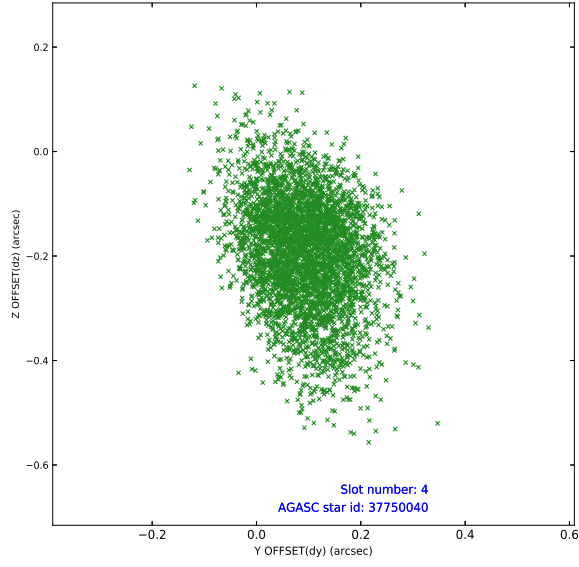
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.08	1995	1.000	0.041	-0.070	0.009	0.015	0.000000	0.000000	-762.10	-1737
1	FID		ACIS-S-4	7.19	1995	1.000	0.172	-0.001	0.011	0.021	0.000000	0.000000	2151.10	170
2	FID		ACIS-S-5	7.18	1995	1.000	-0.246	0.080	0.008	0.014	0.000000	0.000000	-1814.25	165
3	GUIDE	used	37749416	9.51	3985	1.000	0.064	0.201	0.210	0.316	186.856959	6.758563	-1413.41	-943
4	GUIDE	used	37750040	8.25	3988	1.000	0.092	-0.184	0.129	0.228	186.217544	6.363680	1023.98	-2088
5	GUIDE	used	37755216	9.00	3985	1.000	0.039	-0.025	0.124	0.209	187.461192	6.009786	-332.75	2337
6	GUIDE	used	37756544	9.49	3989	1.000	-0.024	0.026	0.173	0.282	187.390380	6.240356	-890.80	1673
7	GUIDE	used	37757304	8.22	3988	1.000	-0.173	-0.014	0.105	0.183	187.266098	5.960690	195.10	1850

2.4 Star Slots

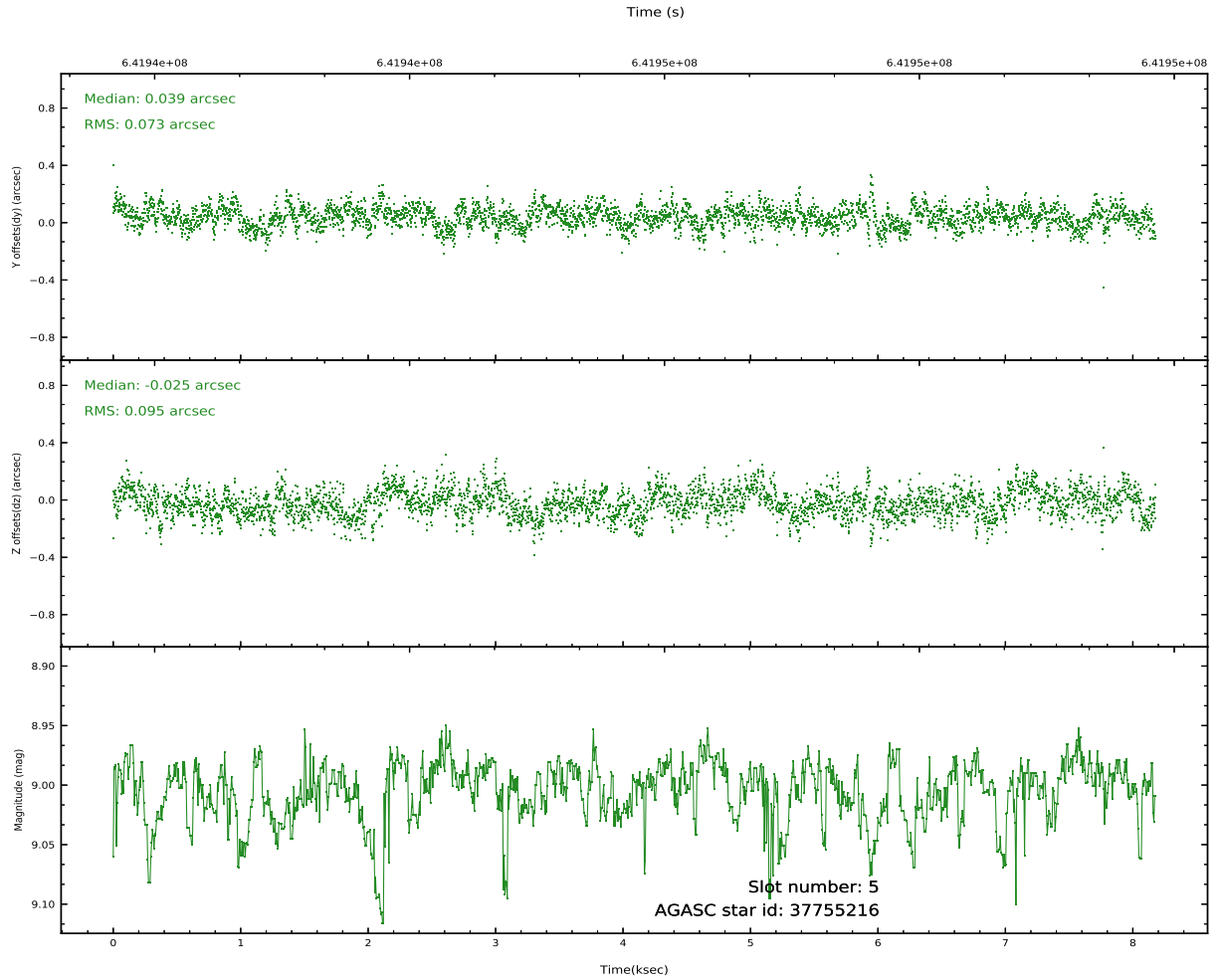
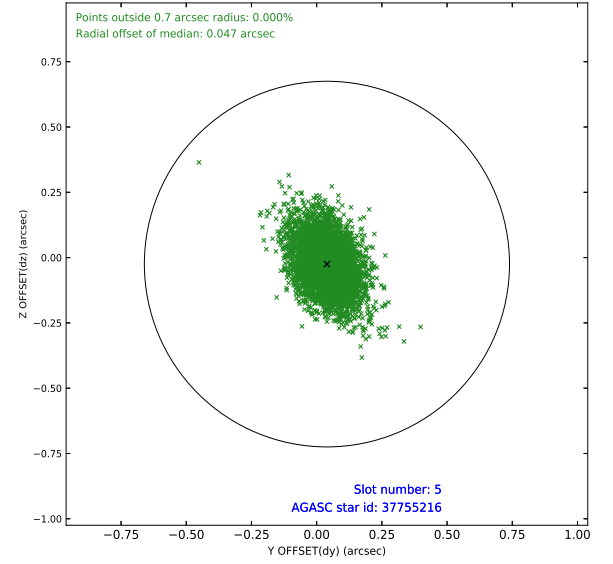
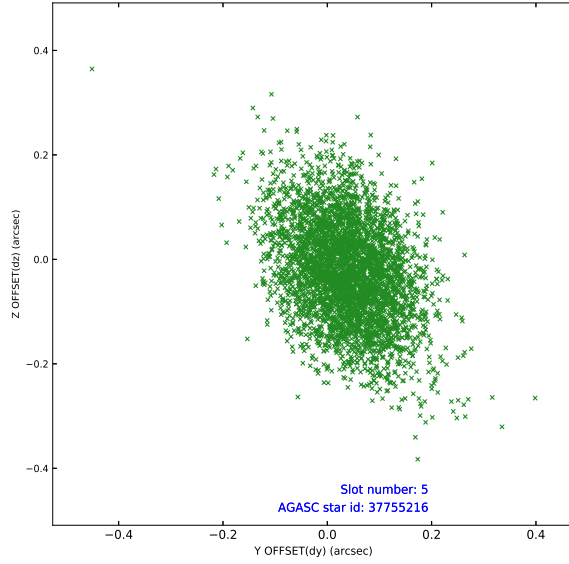
2.4.1 Slot 3



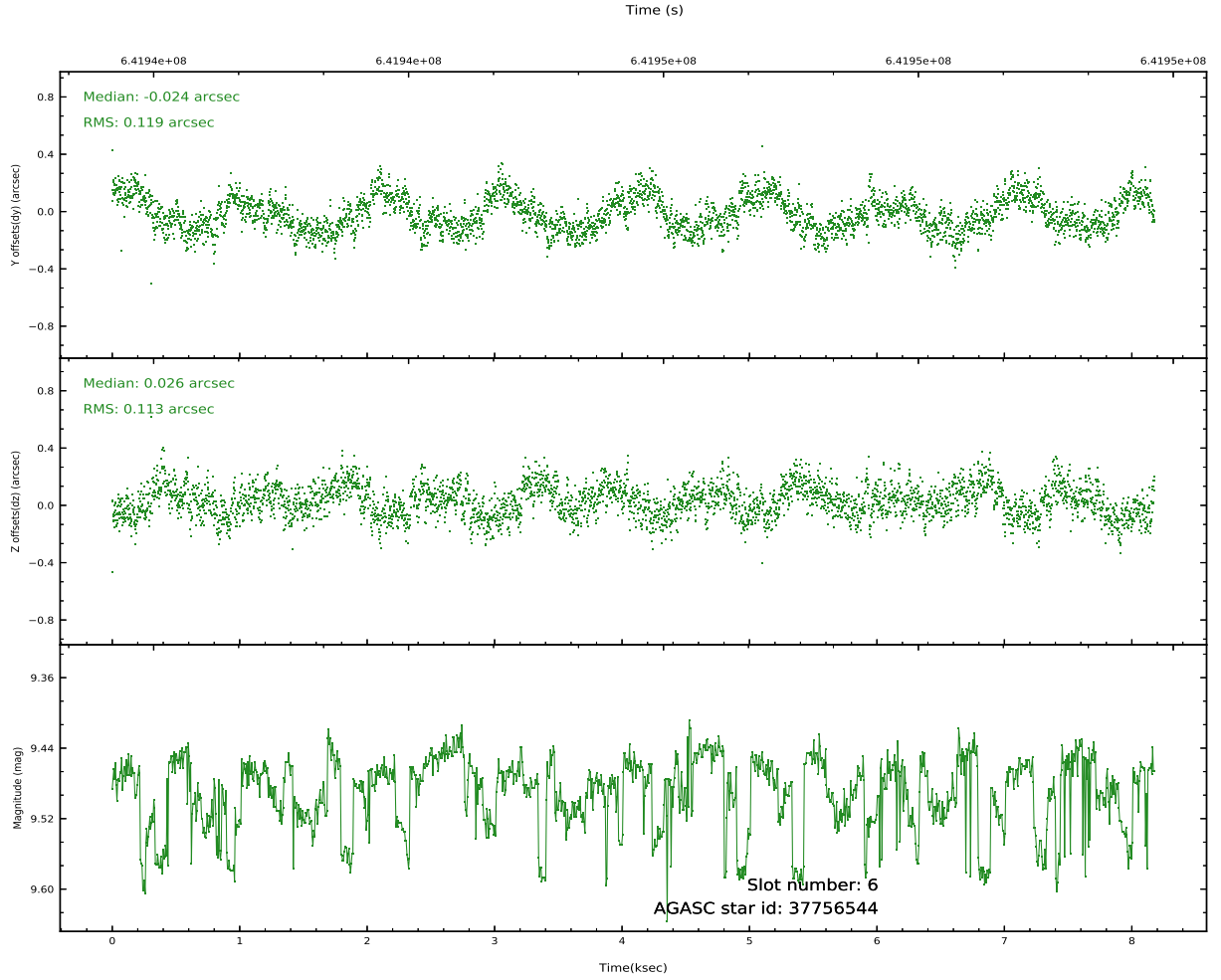
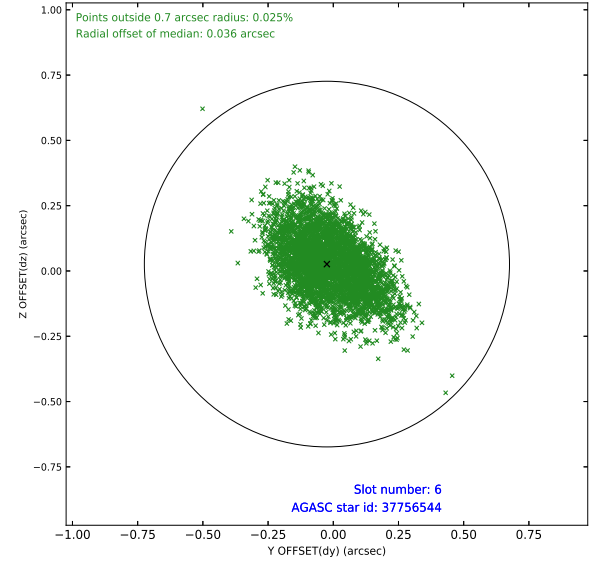
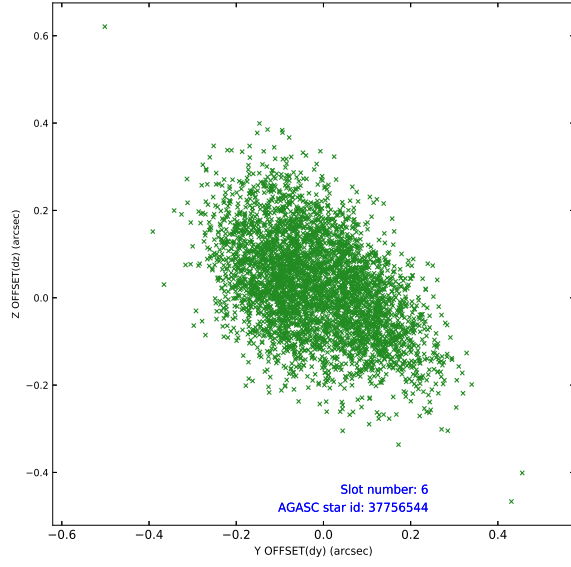
2.4.2 Slot 4



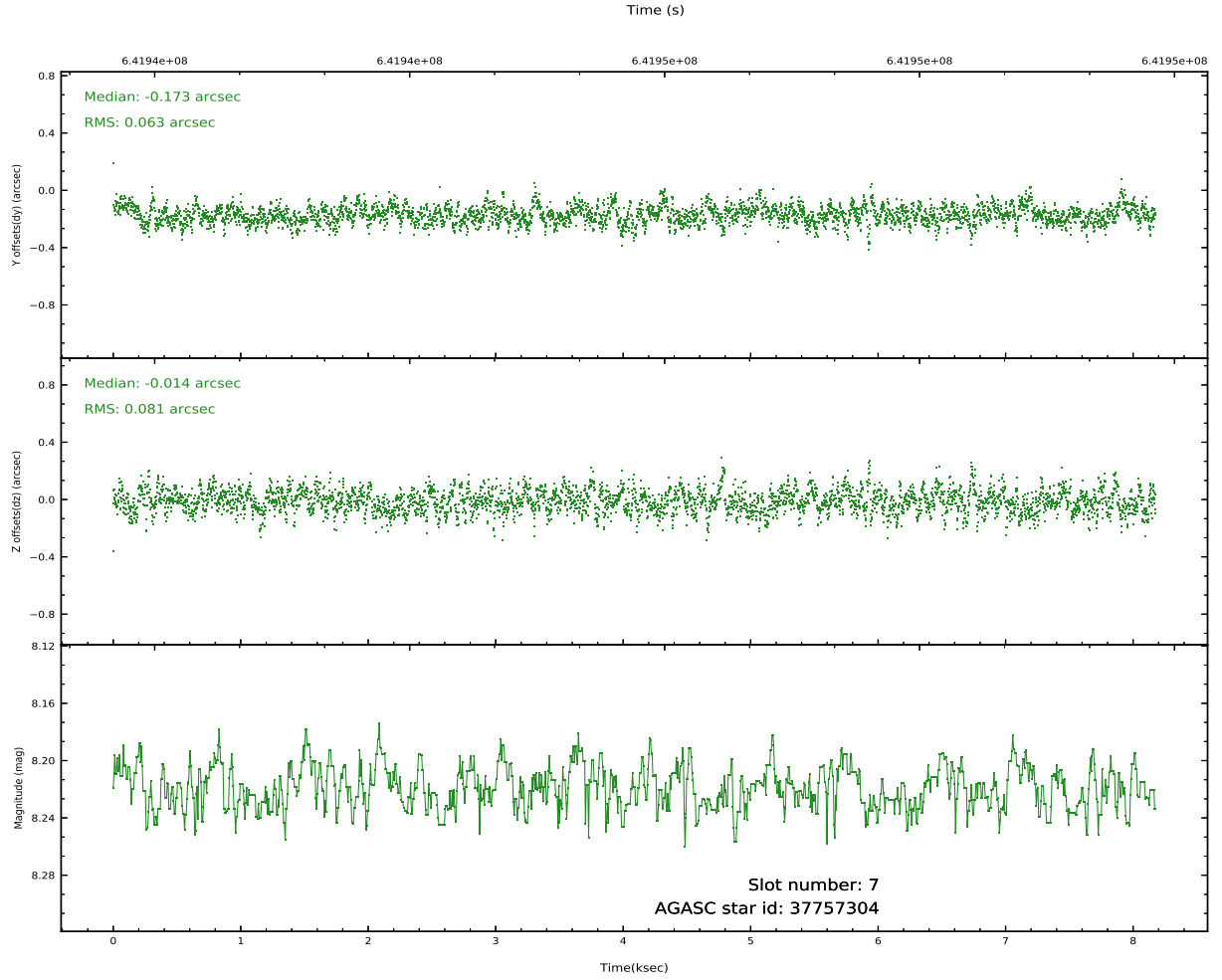
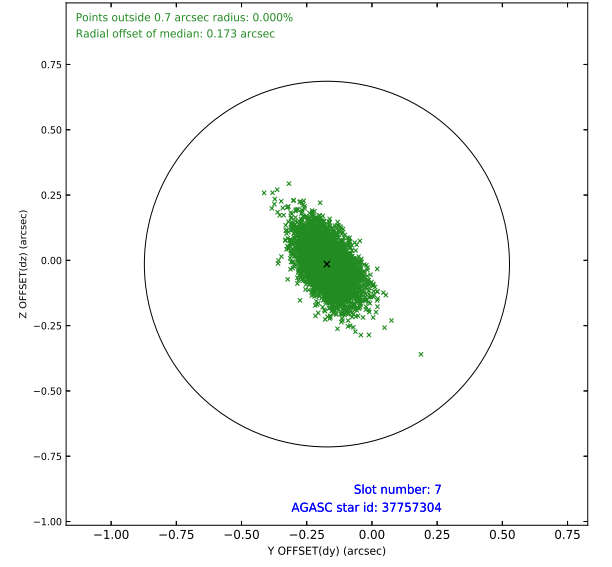
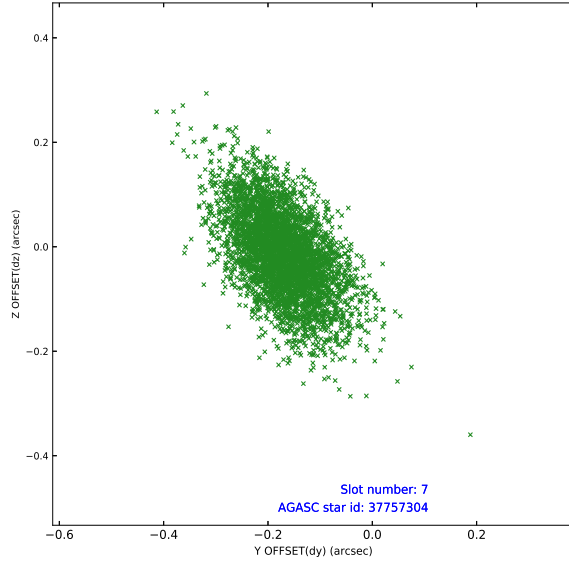
2.4.3 Slot 5



2.4.4 Slot 6

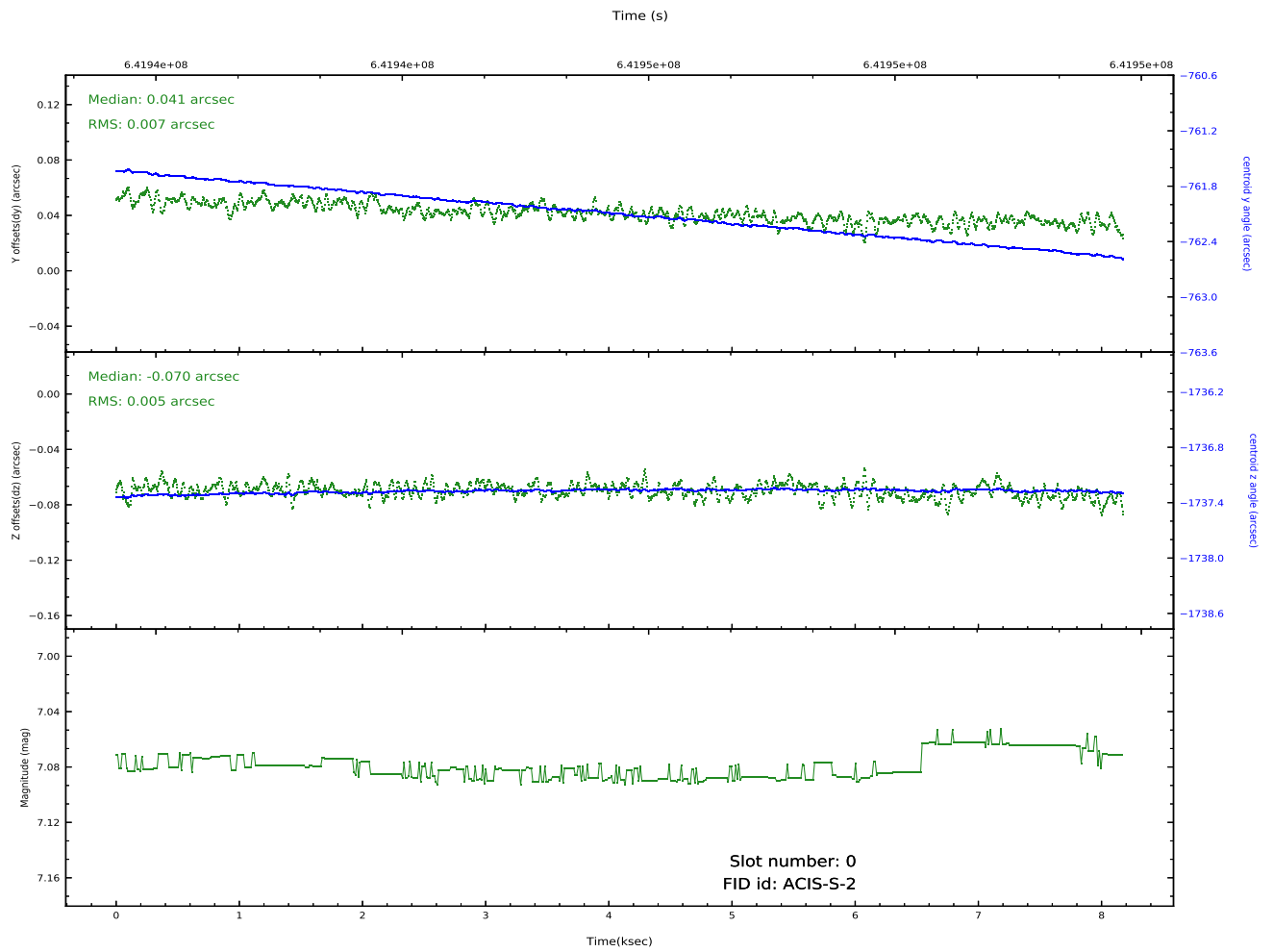
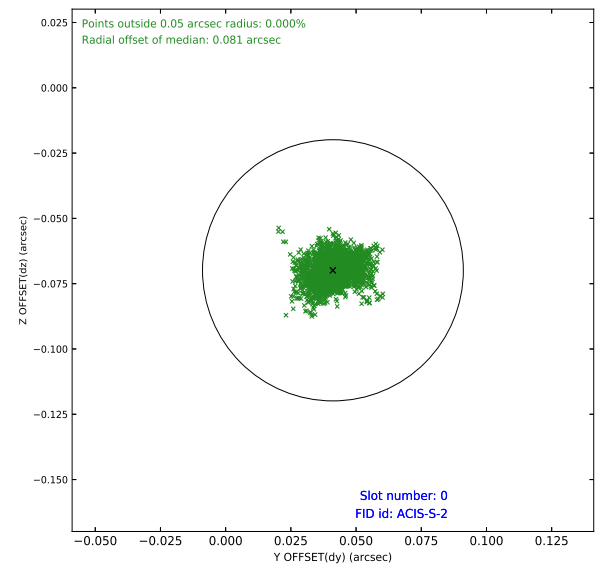
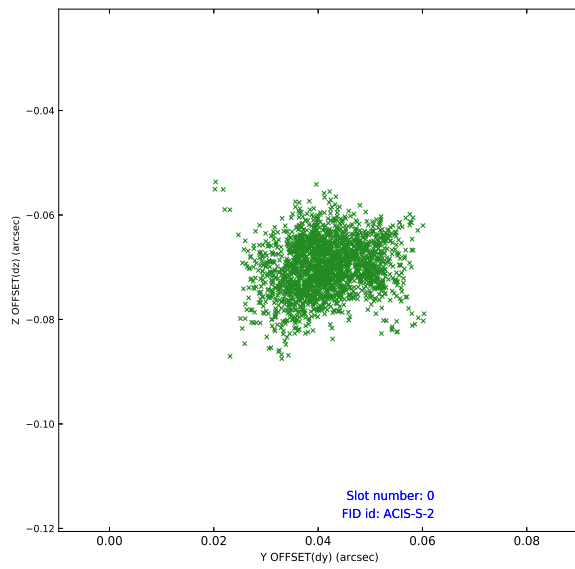


2.4.5 Slot 7

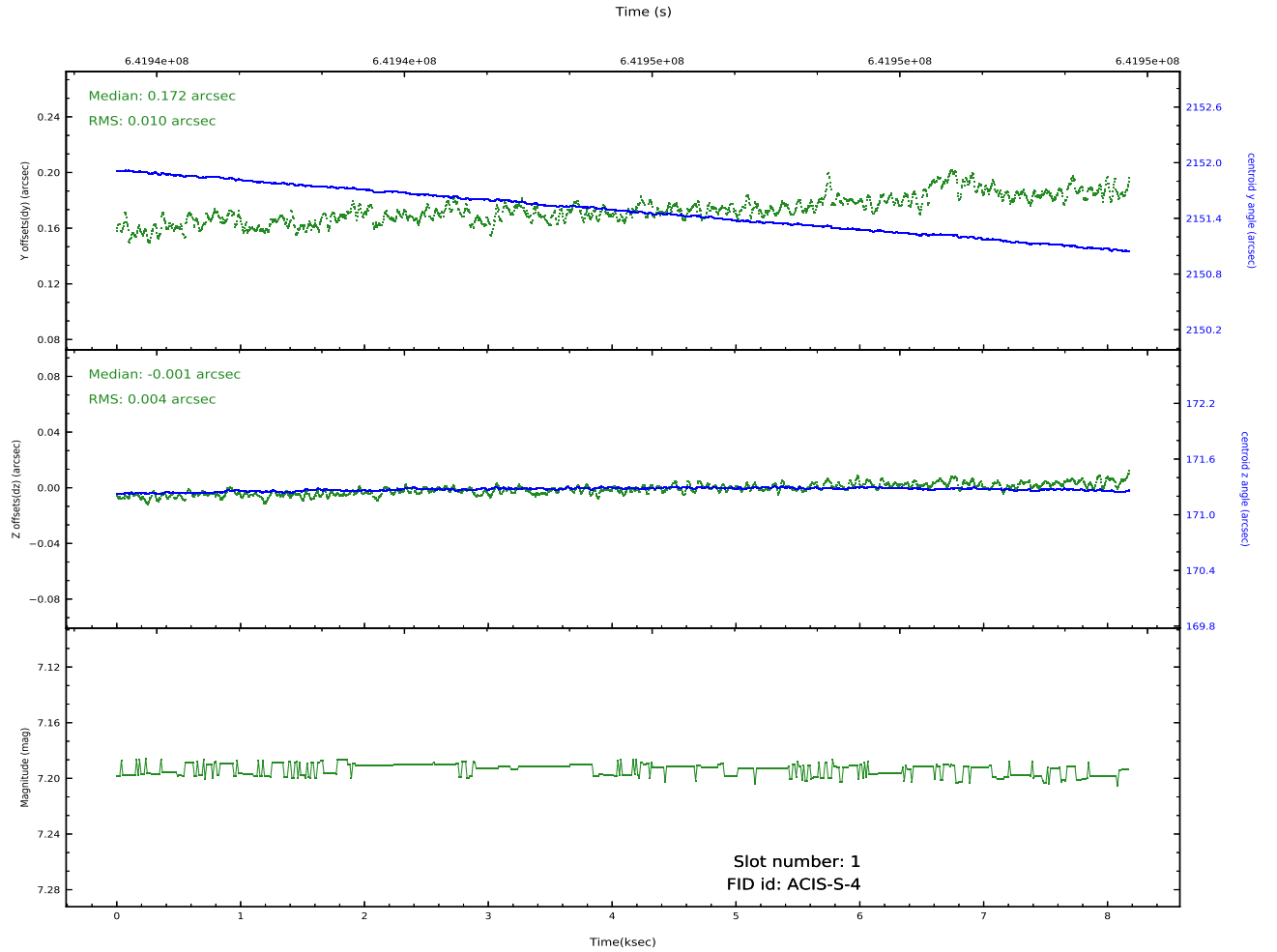
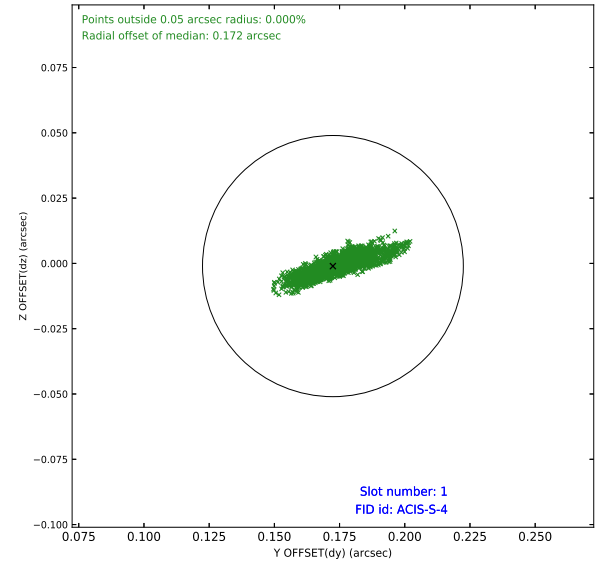
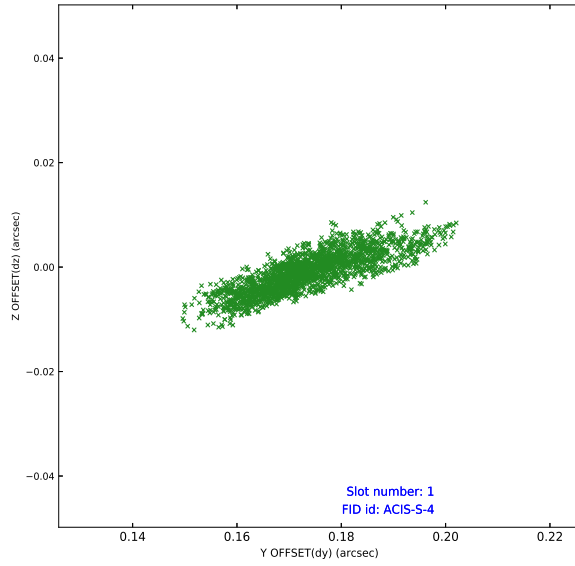


2.5 FID Slots

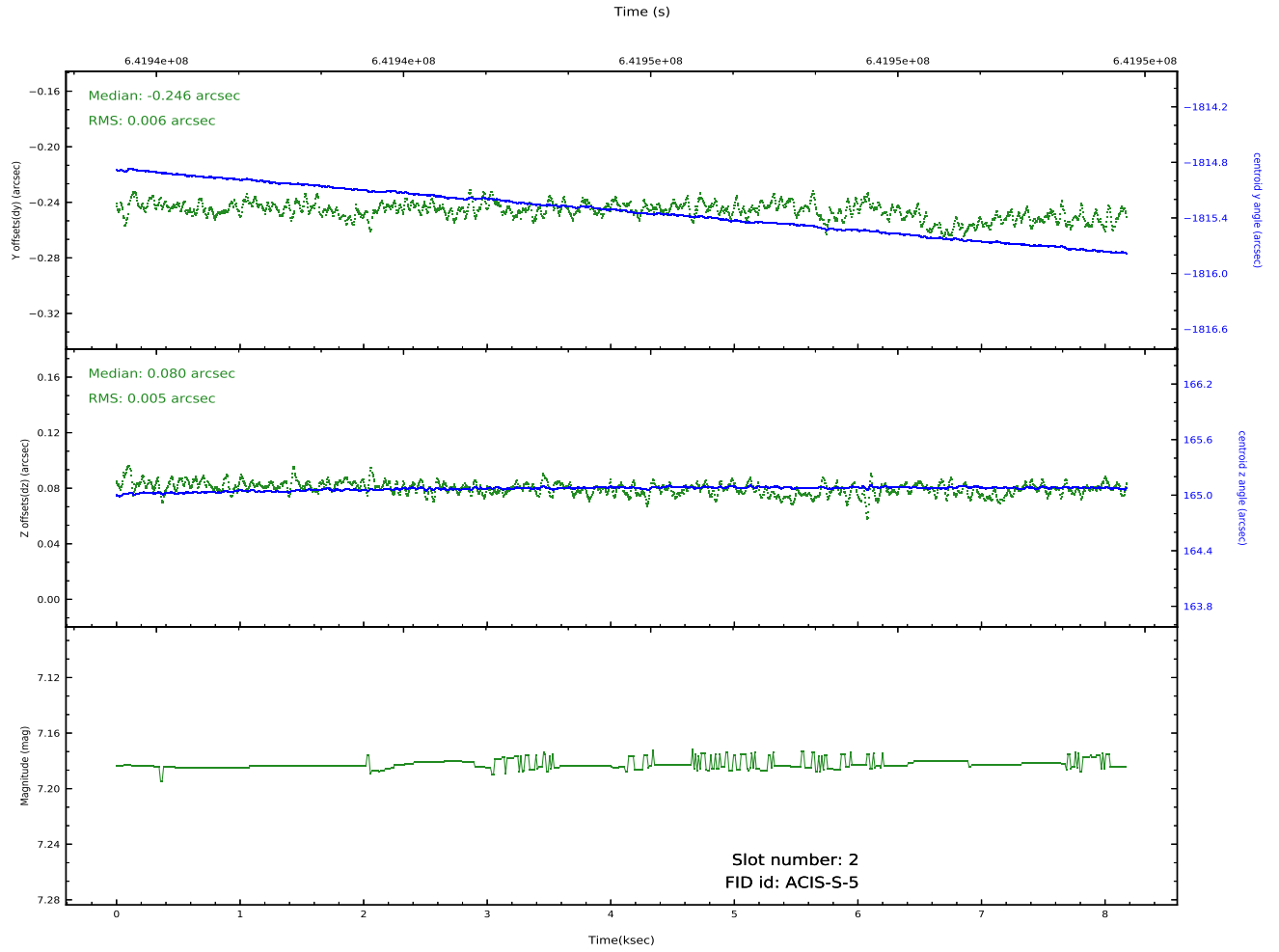
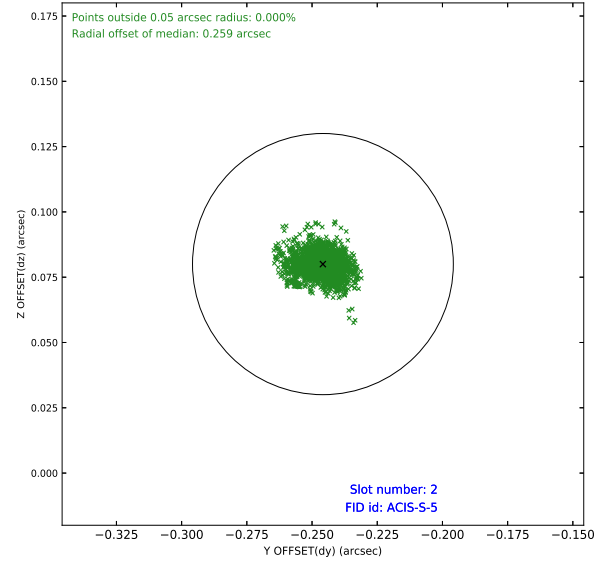
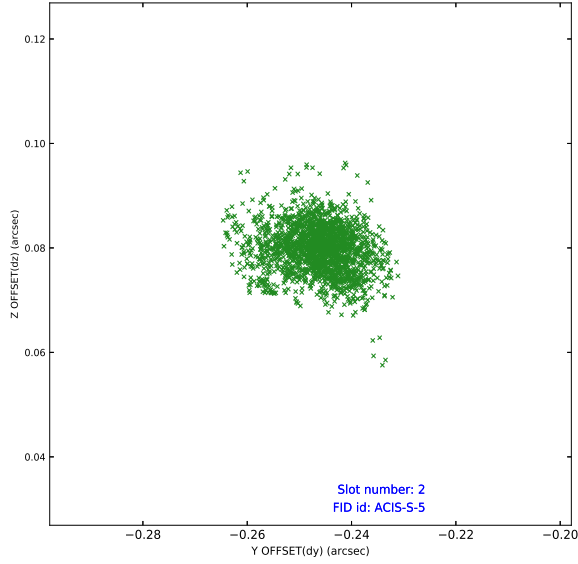
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9081000609398

A.2 Comments