

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19411 - L2 Version 2
Chandra X-Ray Center

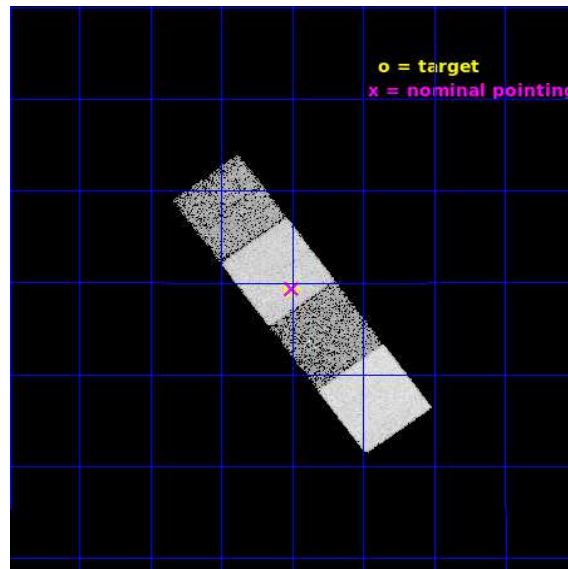
L2 Processing Date : Oct 25 2020

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1 Front

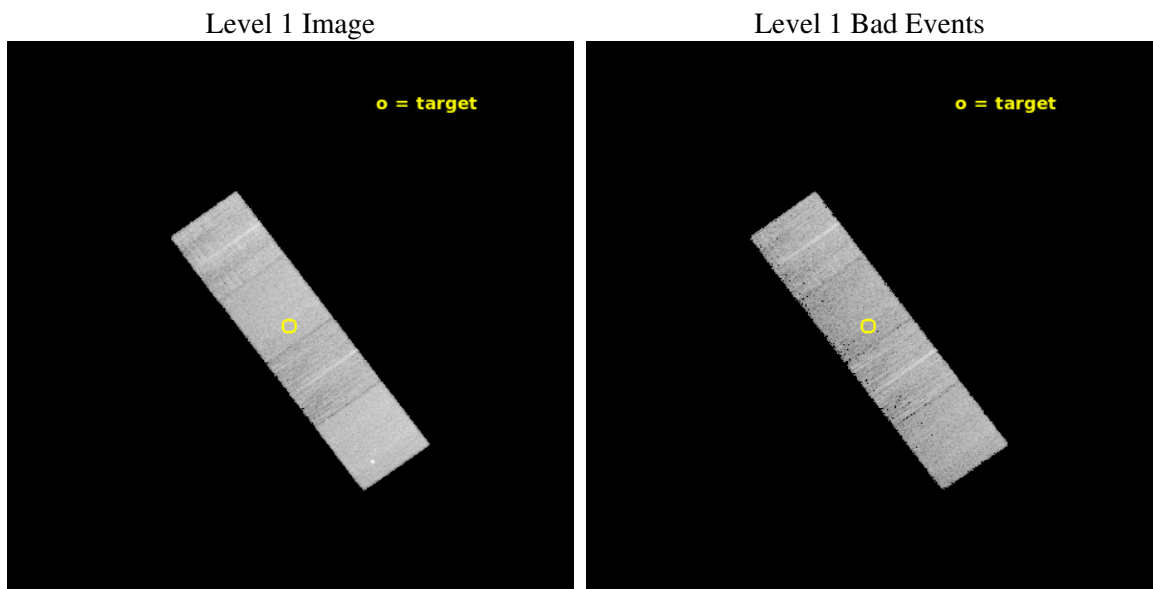
seq_num	601368	Sequence number
obs_id	19411	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4519	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.37625	Observer's specified target RA [deg]
dec_targ	8.65475	Observer's specified target Dec [deg]
ra_nom	188.37559788643	Nominal RA [deg]
dec_nom	8.6557940120432	Nominal Dec [deg]
roll_nom	233.77126106811	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8564.9086478949	Sum of GTIs [s]
livetime	8453.0018110161	Livetime [s]
ontime5	8564.8676079512	Sum of GTIs [s]
ontime6	8561.6855477095	Sum of GTIs [s]
ontime7	8564.9086478949	Sum of GTIs [s]
ontime8	8561.644567132	Sum of GTIs [s]
l2events	93342	Number of level 2 events



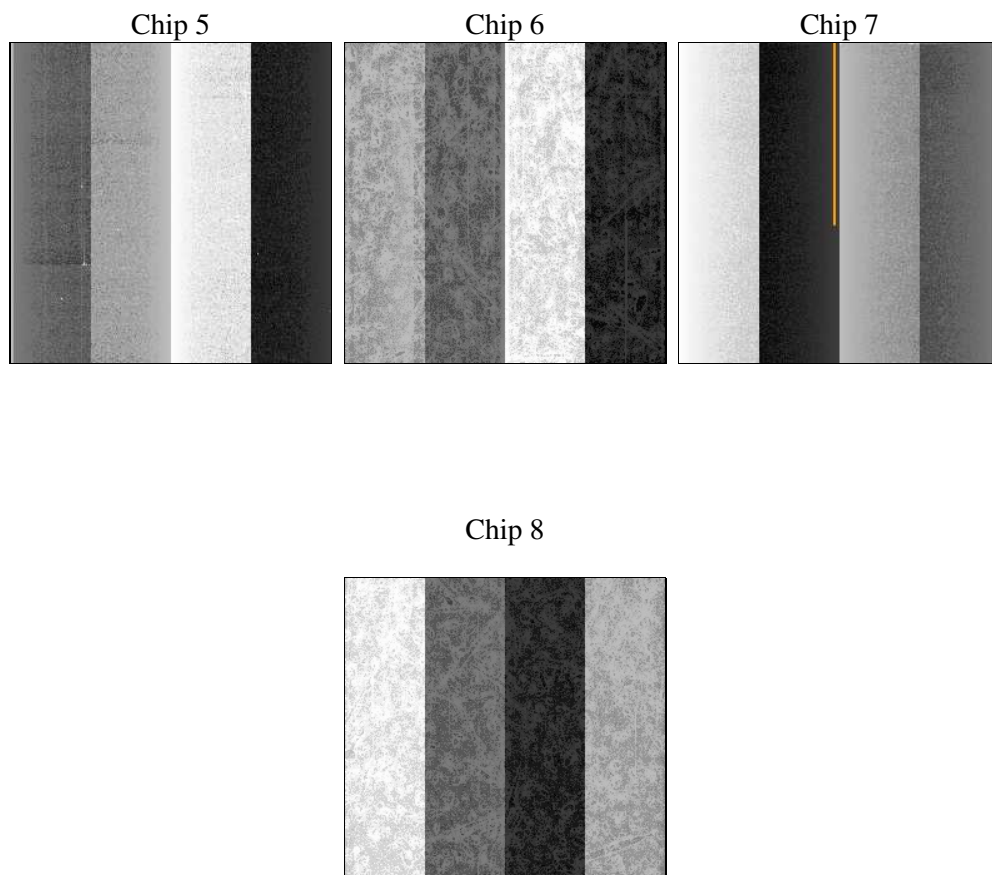
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	8564.9086478949	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	8564.8676079512	Sum of GTIs [s]
date	2020-10-25T21:04:34	Date and time of file creation	ontime6	8561.6855477095	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	8564.9086478949	Sum of GTIs [s]
			ontime8	8561.644567132	Sum of GTIs [s]
			l1events	329149	Number of level 1 events

2.1.4 Events

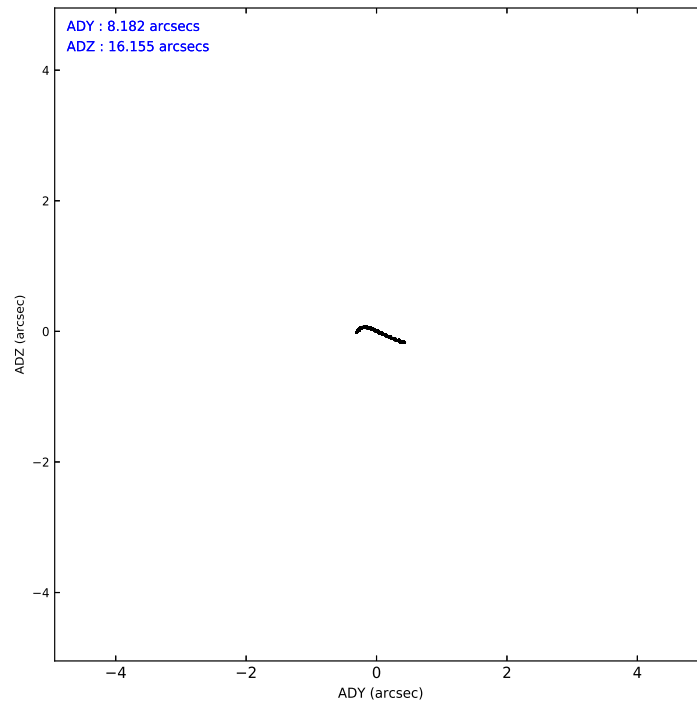
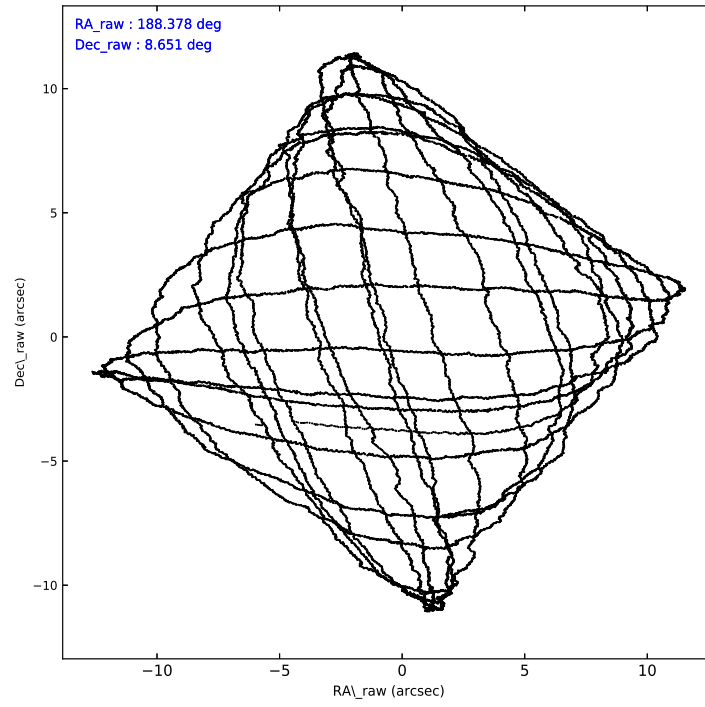
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	99362	64673	80360	84754
rejected events	51659	57363	45456	62685
rejected %	51%	88%	56%	73%

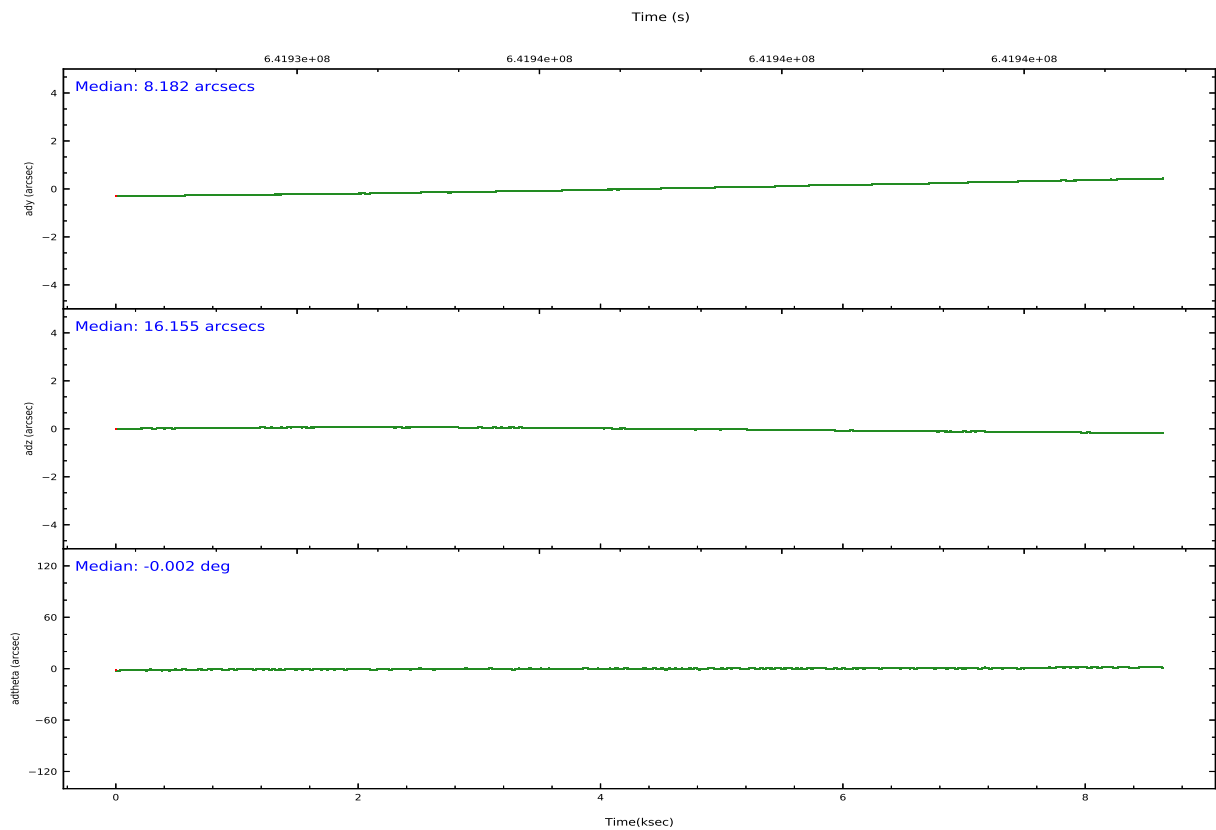
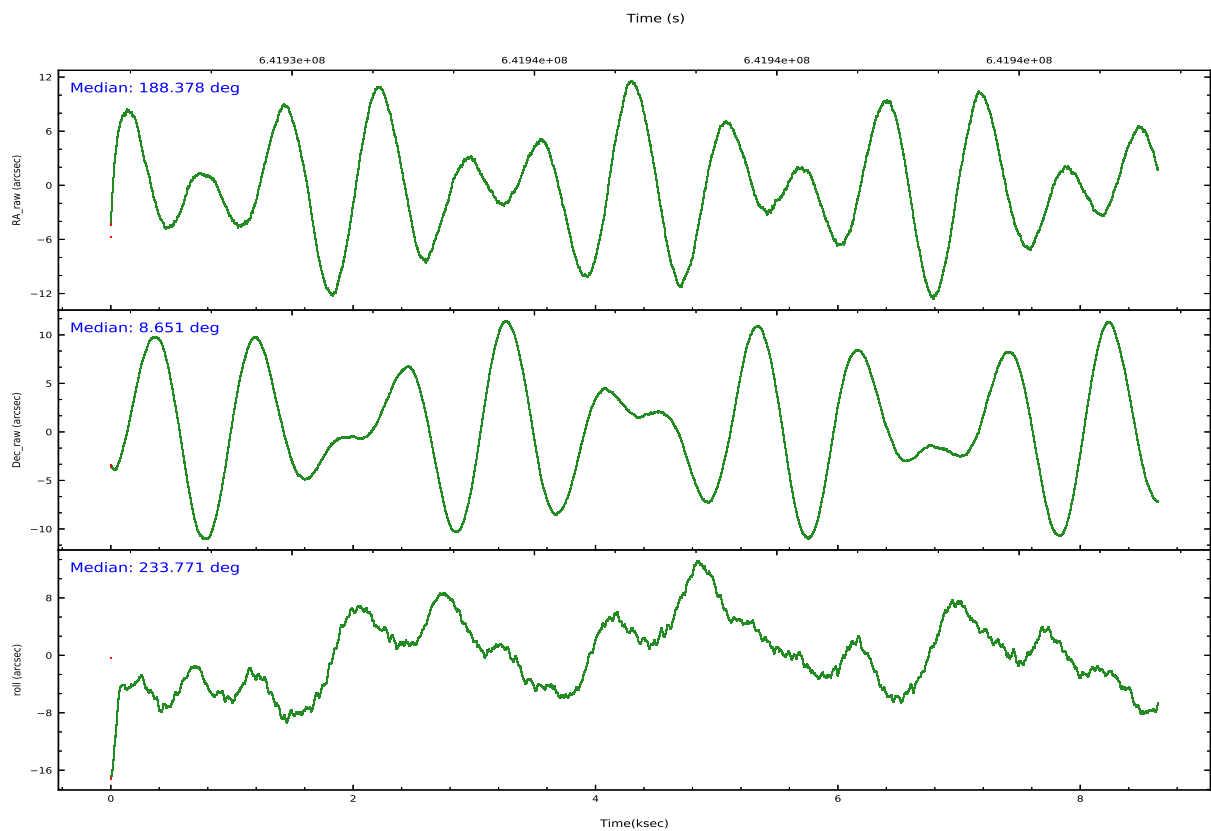
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3240	2343	2928	6108
	3%	3%	3%	7%
grade 1 events	244	28	121	70
	0%	0%	0%	0%
grade 2 events	14996	1773	7250	5422
	15%	2%	9%	6%
grade 3 events	1415	723	2756	2179
	1%	1%	3%	2%
grade 4 events	1366	713	2819	2034
	1%	1%	3%	2%
grade 5 events	6738	2888	7977	4398
	6%	4%	9%	5%
grade 6 events	26706	1764	19176	6367
	26%	2%	23%	7%
grade 7 events	44657	54441	37333	58176
	44%	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	188.380545	188.37559788643	Subarray requested	NONE	NONE
[deg] Pointing Dec	8.678399	8.6557940120432	Alternating exposures requested	N	N
[deg] Pointing Roll	233.611536	233.77126106811	[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)	641932648.184000	641931213.08743			
Observation start date	2018-05-05T18:36:19	2018-05-05T18:13:33			
[s] Observation end time (MET)	641941148.184000	641941378.52553			
Observation end date	2018-05-05T20:57:59	2018-05-05T21:02:58			
Read mode	TIMED	TIMED			

2.3 Aspect



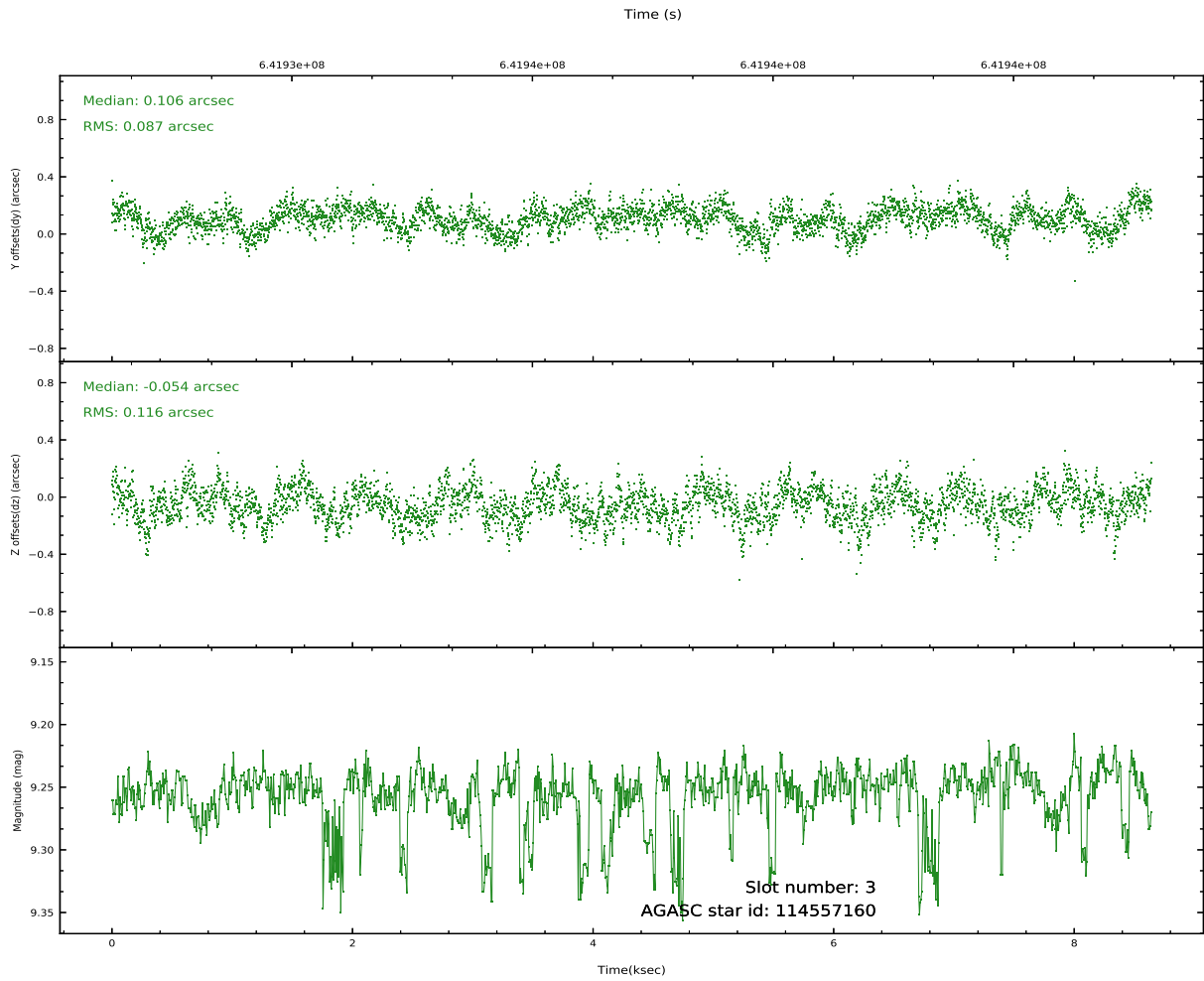
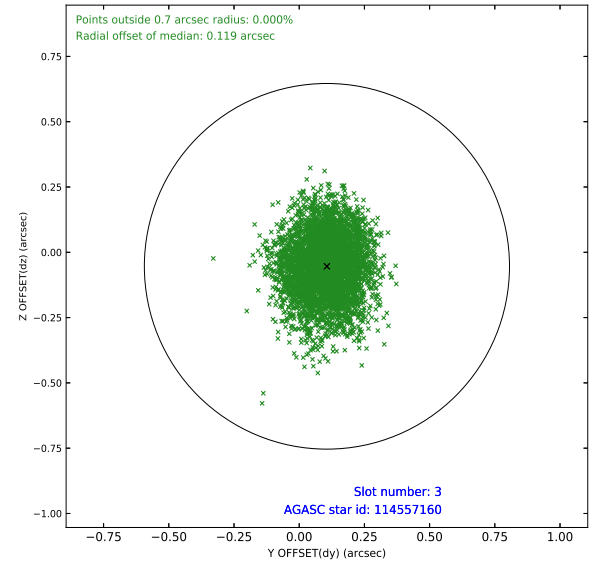
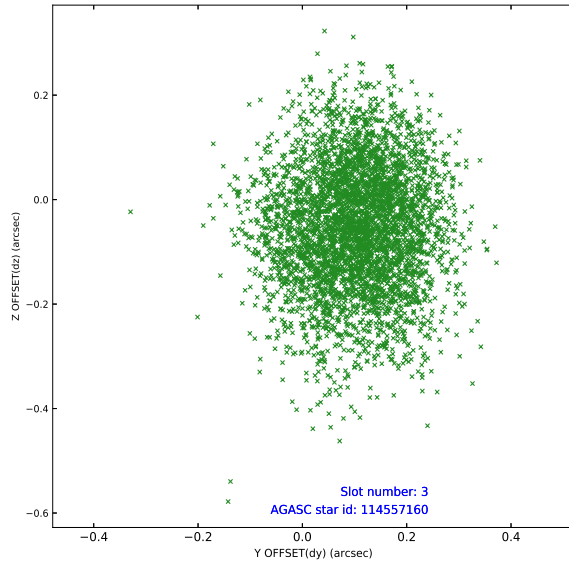


Slot Statistics

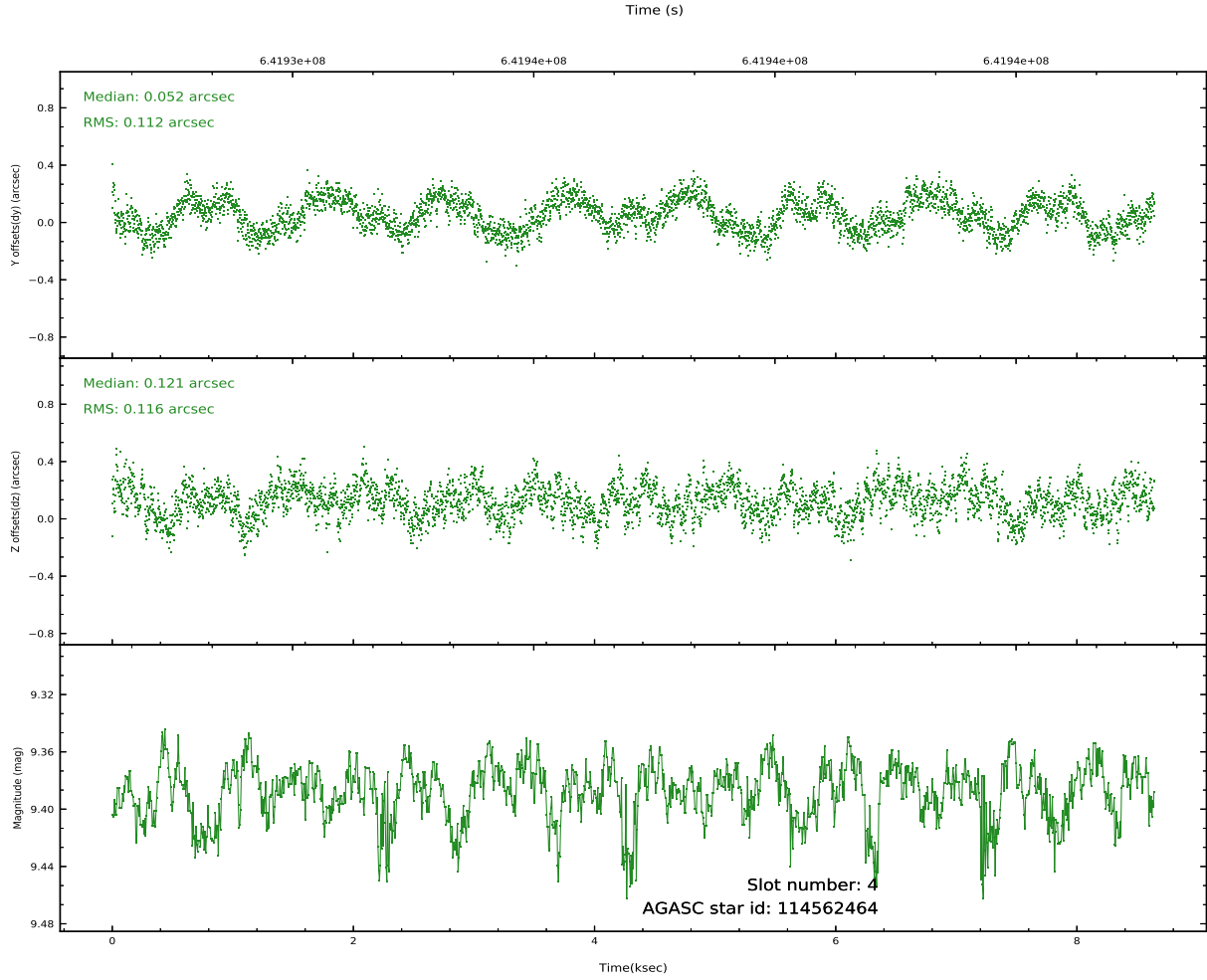
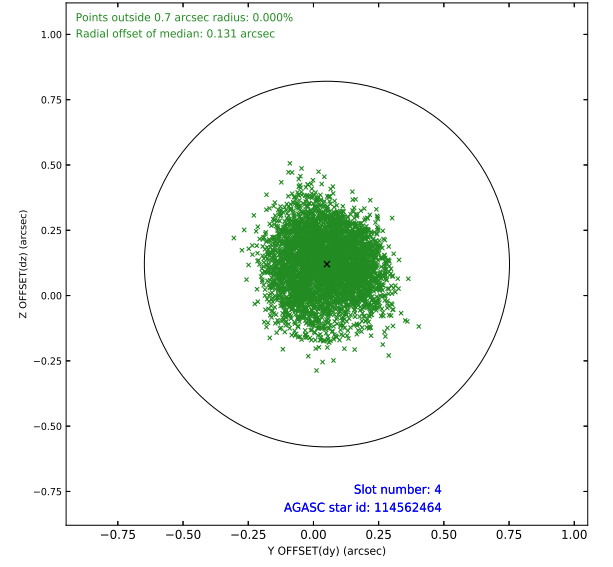
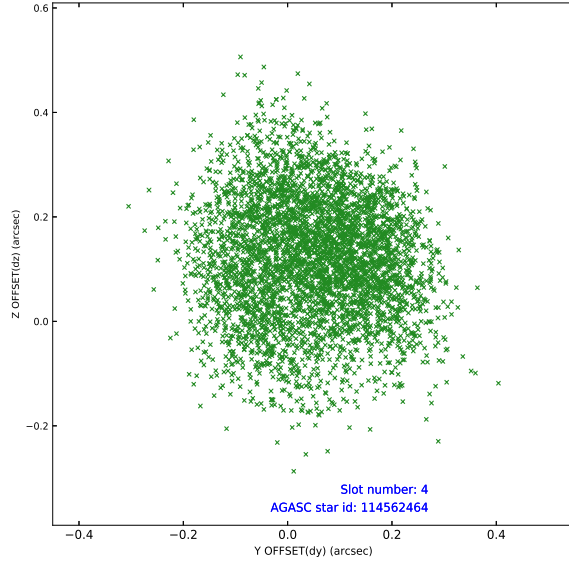
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	2109	1.000	0.178	-0.152	0.008	0.013	0.000000	0.000000	935.12	-1733
1	FID		ACIS-S-4	7.20	2109	1.000	0.101	0.025	0.008	0.013	0.000000	0.000000	2152.91	170
2	FID		ACIS-S-5	7.20	2109	1.000	-0.306	0.140	0.009	0.018	0.000000	0.000000	-1813.31	164
3	GUIDE	used	114557160	9.25	4209	1.000	0.106	-0.054	0.154	0.249	188.190957	9.093563	-802.32	-1430
4	GUIDE	used	114562464	9.39	4214	1.000	0.052	0.121	0.175	0.265	188.394515	8.917620	-722.56	-470
5	GUIDE	used	114562672	8.93	4211	1.000	0.110	0.034	0.134	0.227	188.668662	8.560933	-267.64	1075
6	GUIDE	used	114564248	7.40	4216	1.000	-0.057	-0.104	0.107	0.190	188.352467	7.946007	2183.70	1483
7	GUIDE	used	114690480	9.68	4210	1.000	-0.217	0.017	0.219	0.326	188.948113	9.074321	-2344.72	778

2.4 Star Slots

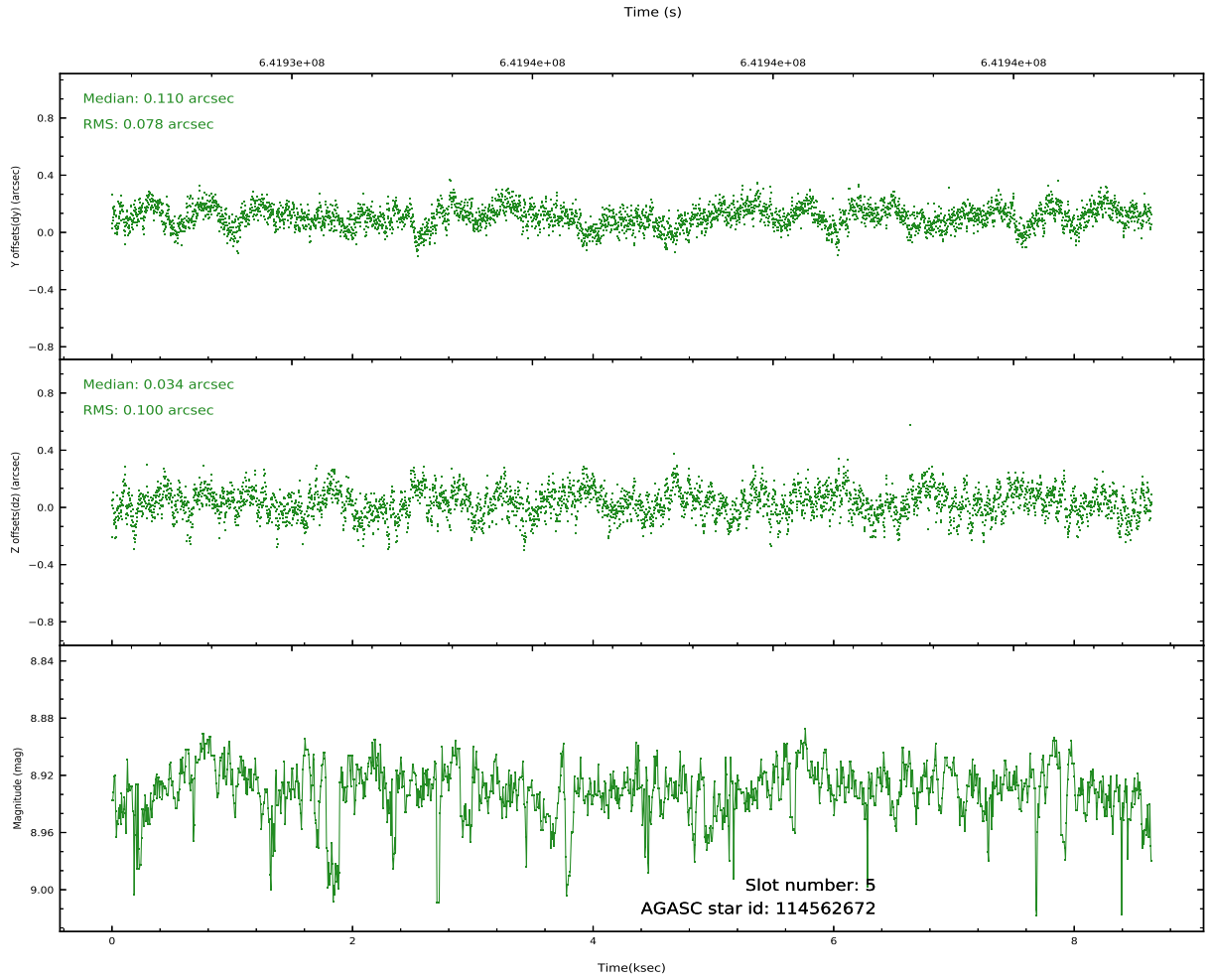
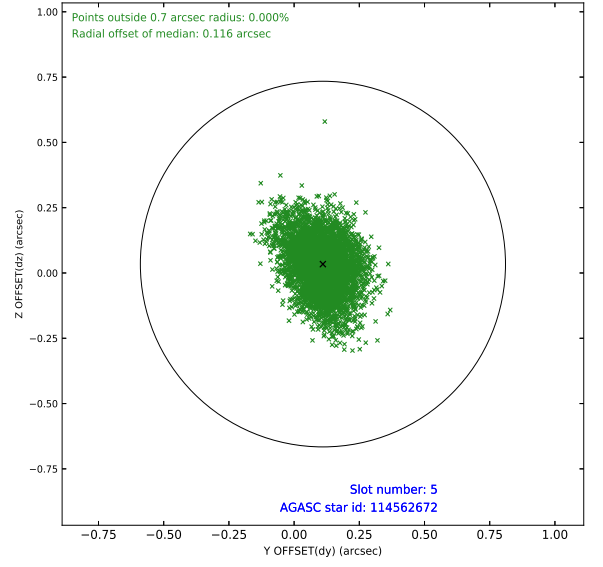
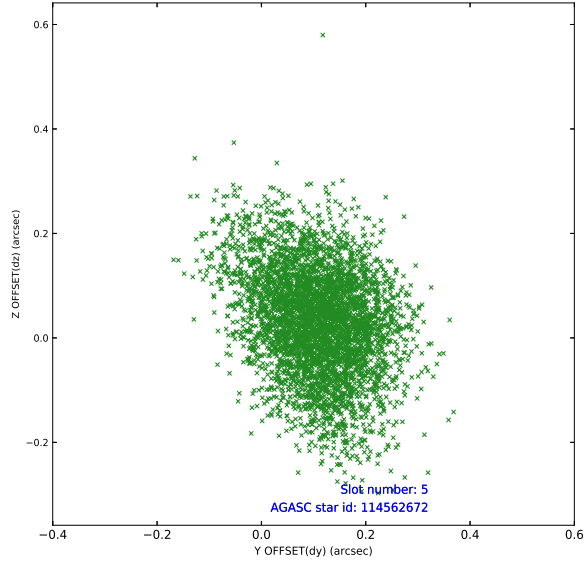
2.4.1 Slot 3



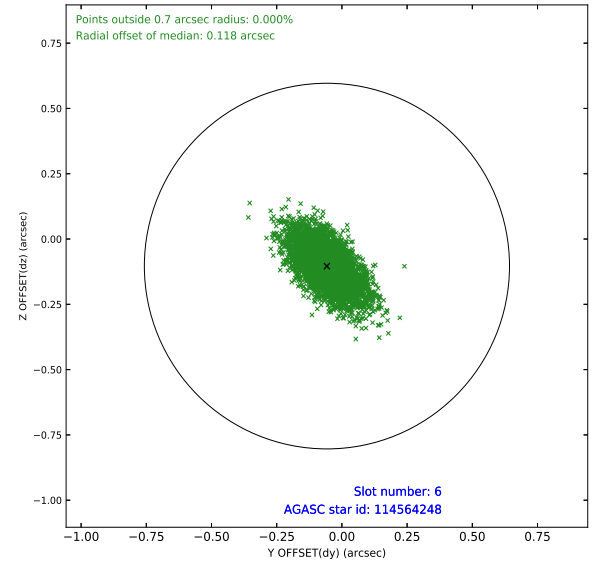
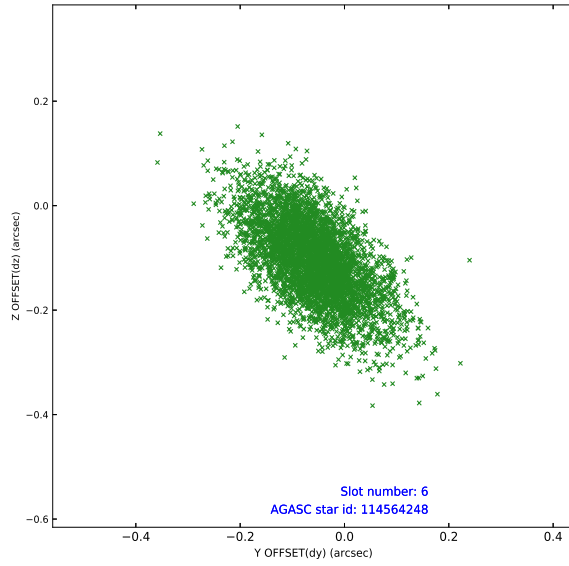
2.4.2 Slot 4



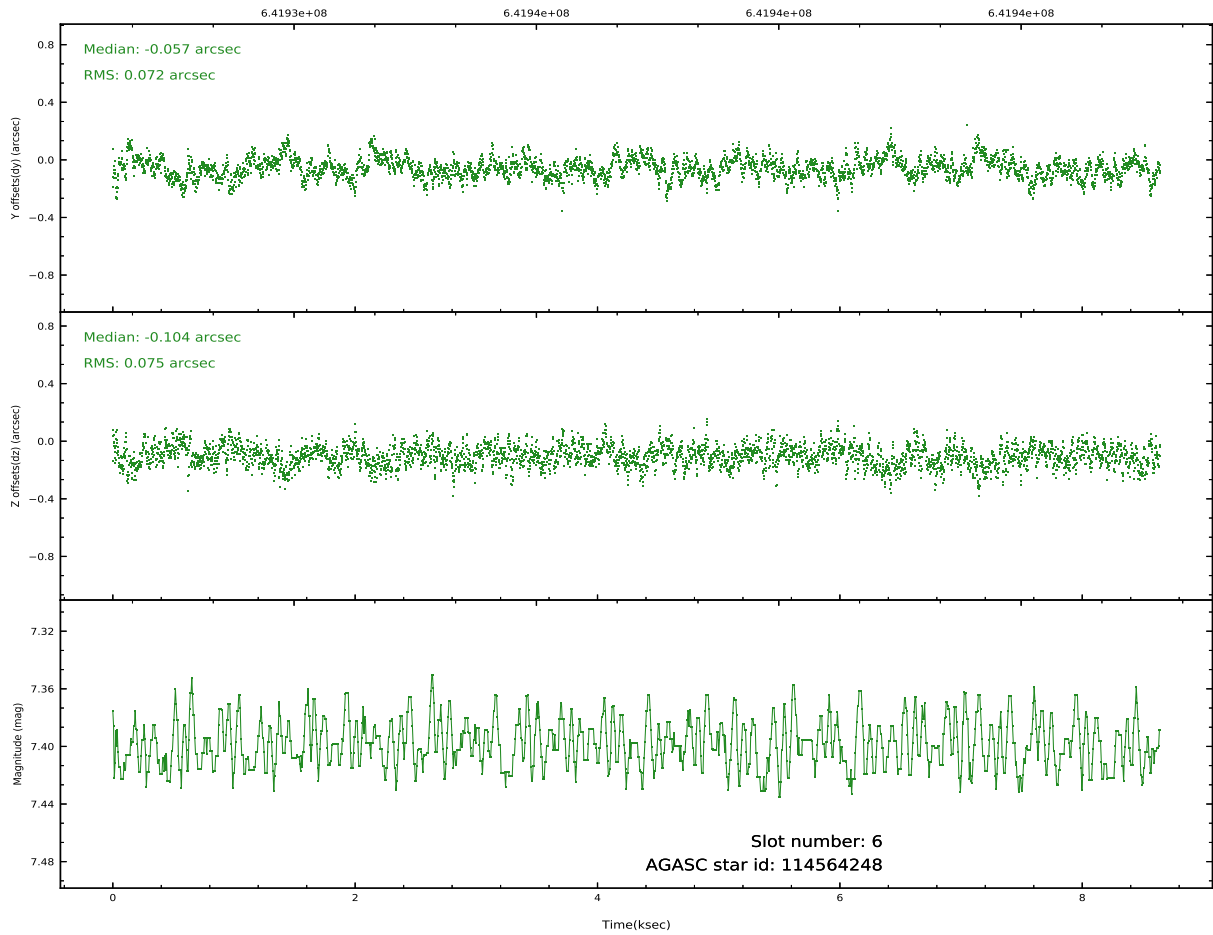
2.4.3 Slot 5



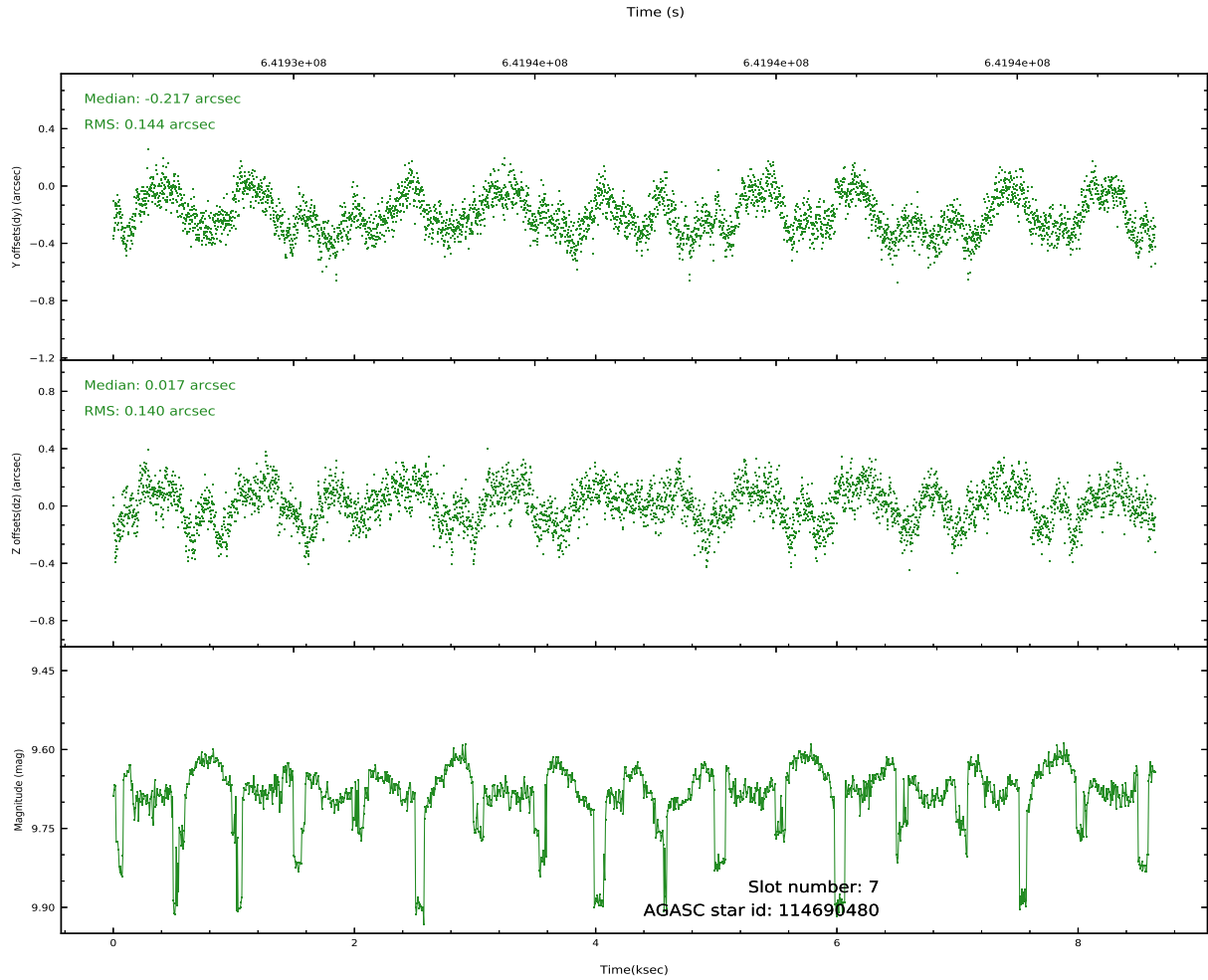
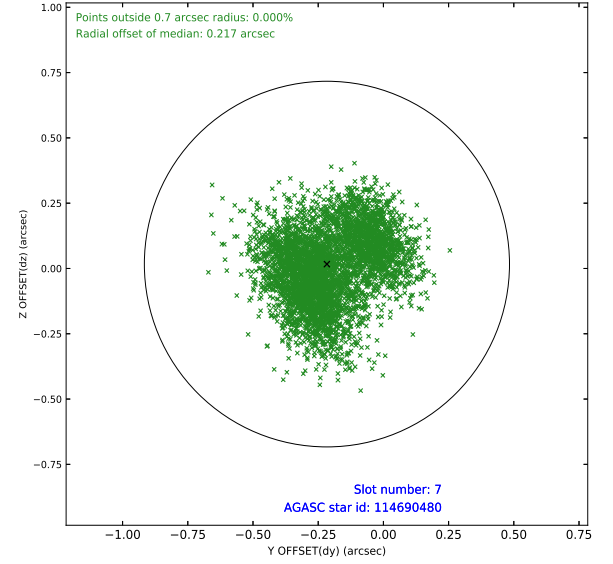
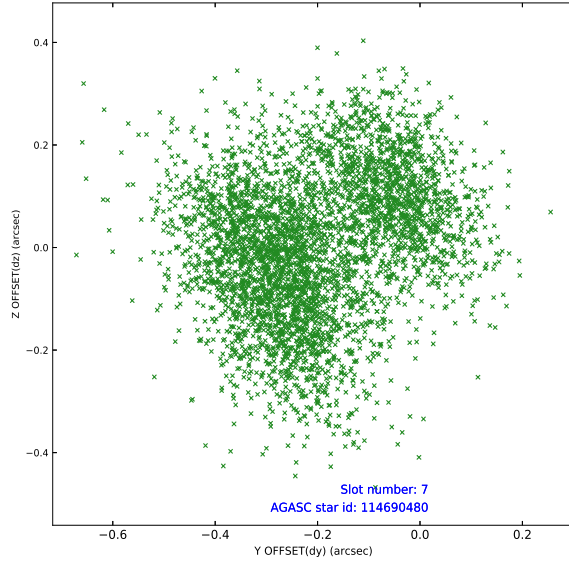
2.4.4 Slot 6



Time (s)

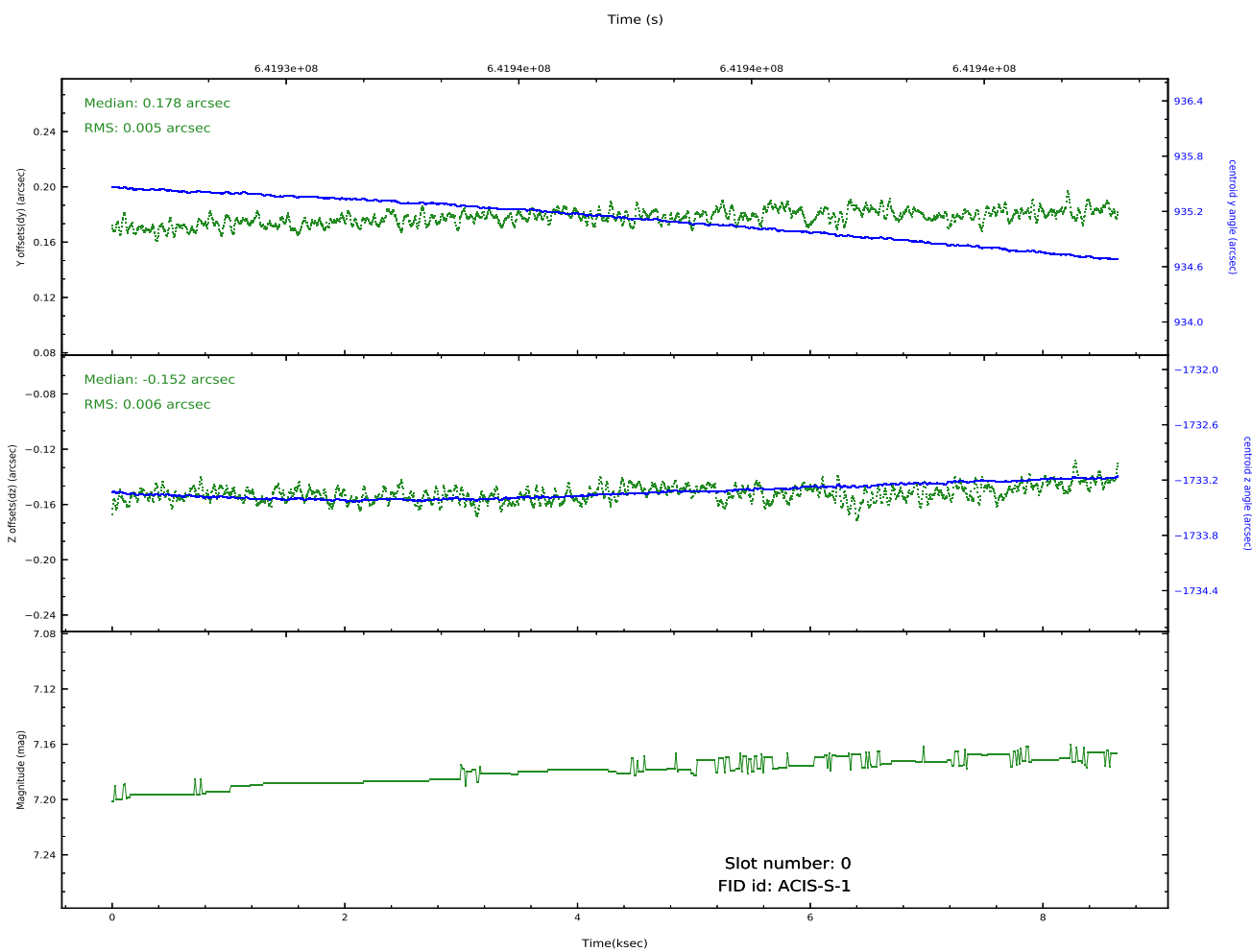
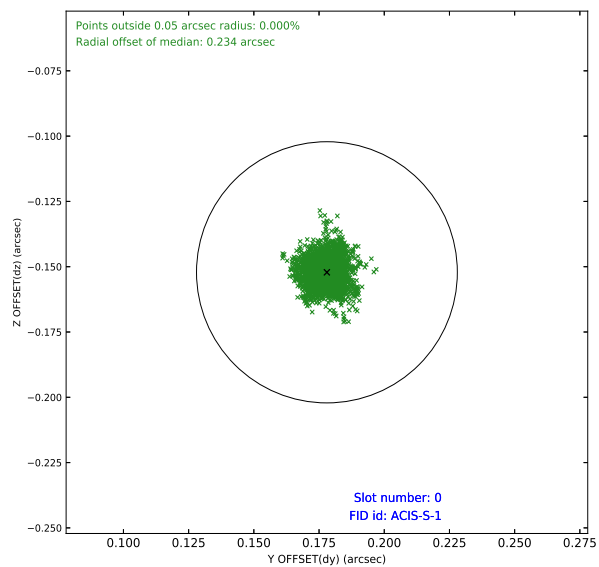
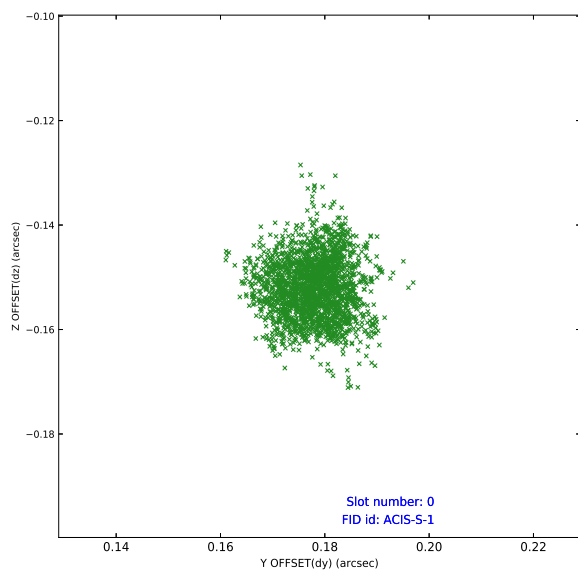


2.4.5 Slot 7

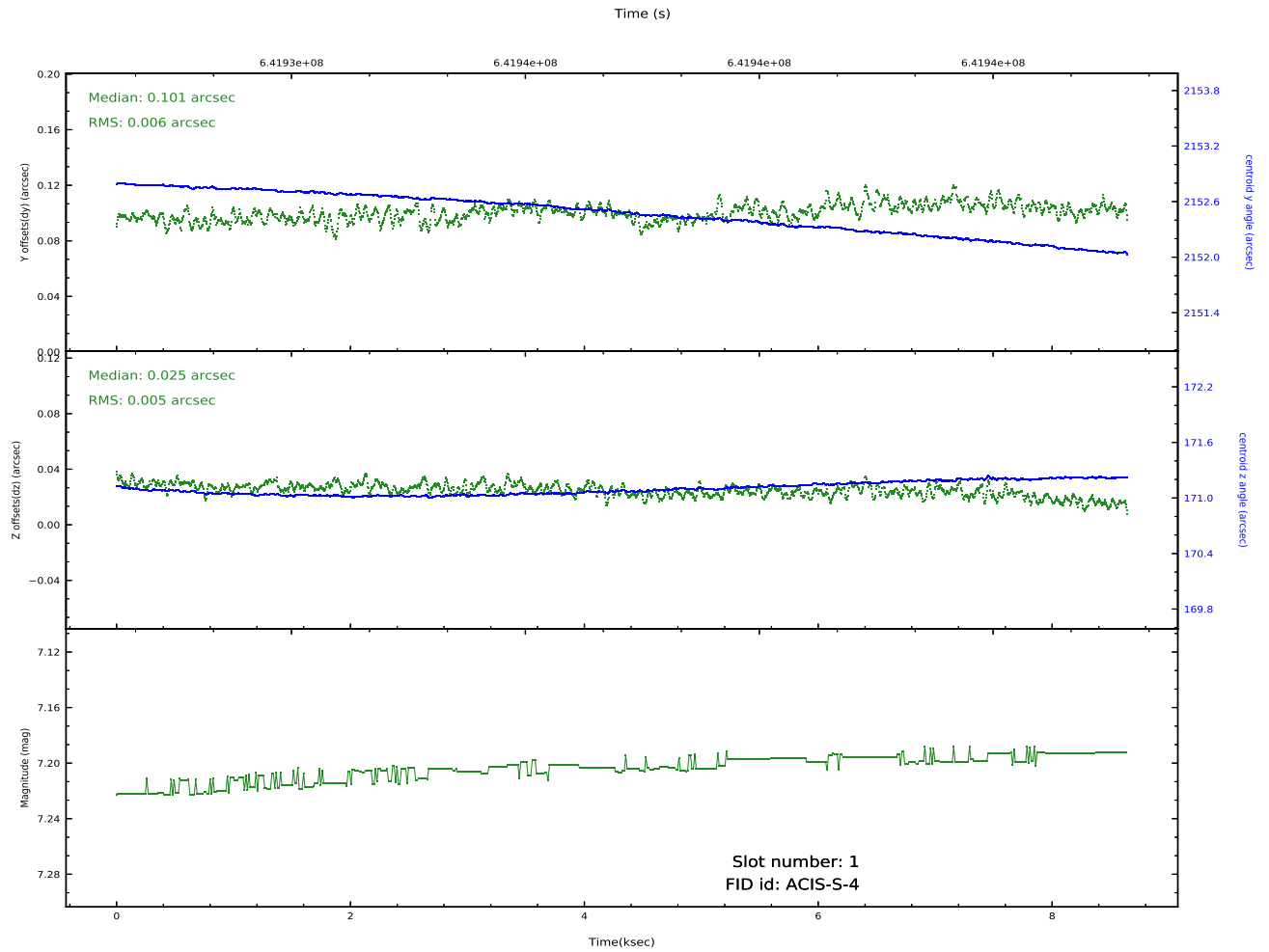
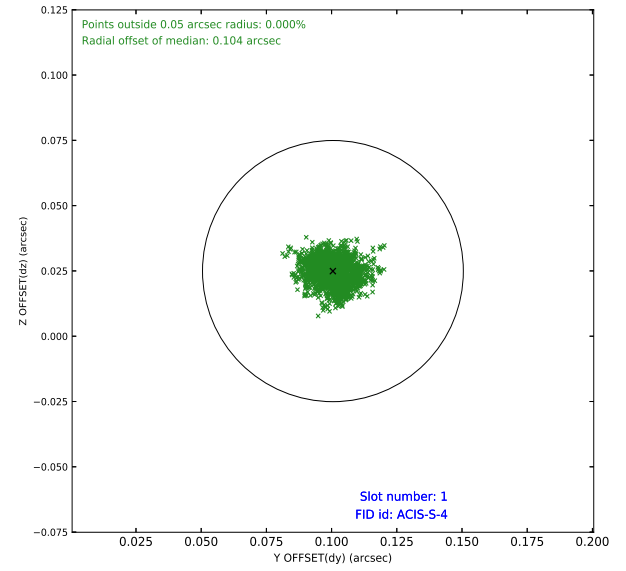
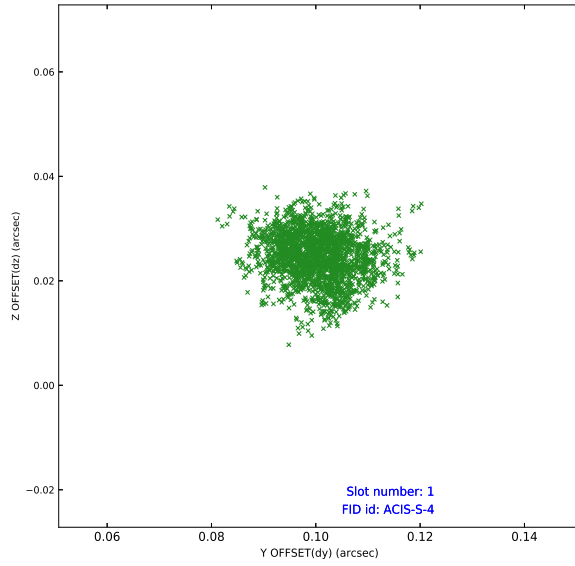


2.5 FID Slots

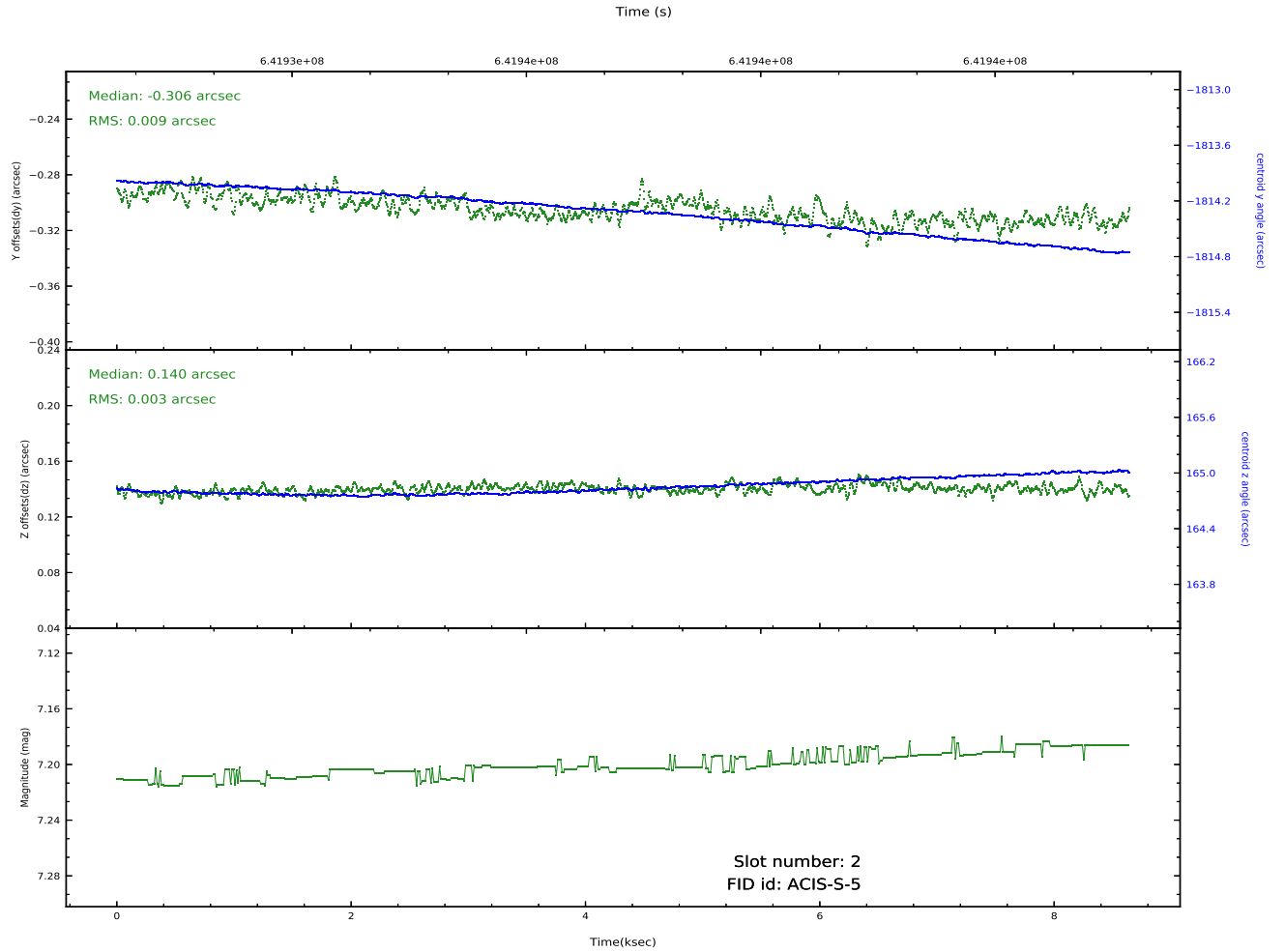
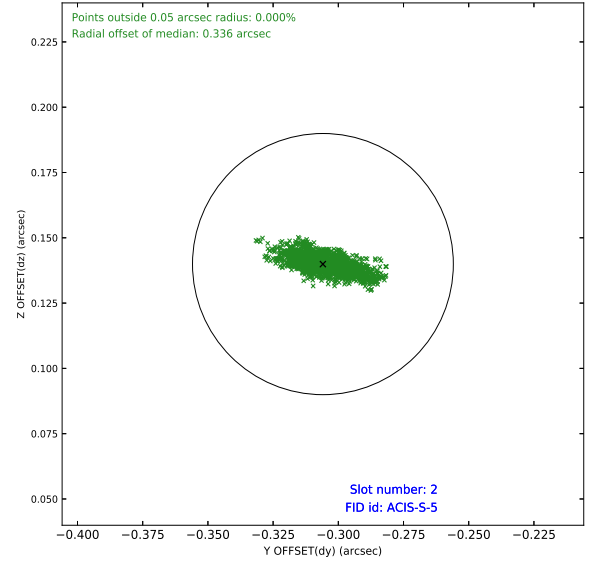
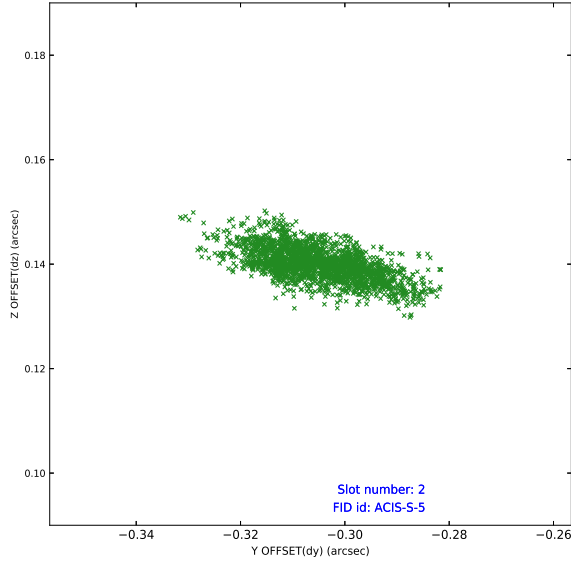
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	8.5649086440802

A.2 Comments