

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4745 - L2 Version 4
Chandra X-Ray Center

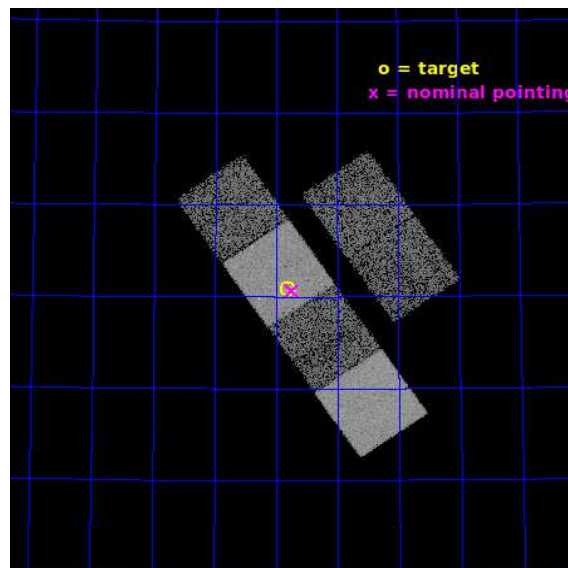
L2 Processing Date : Sep 21 2020

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1 Front

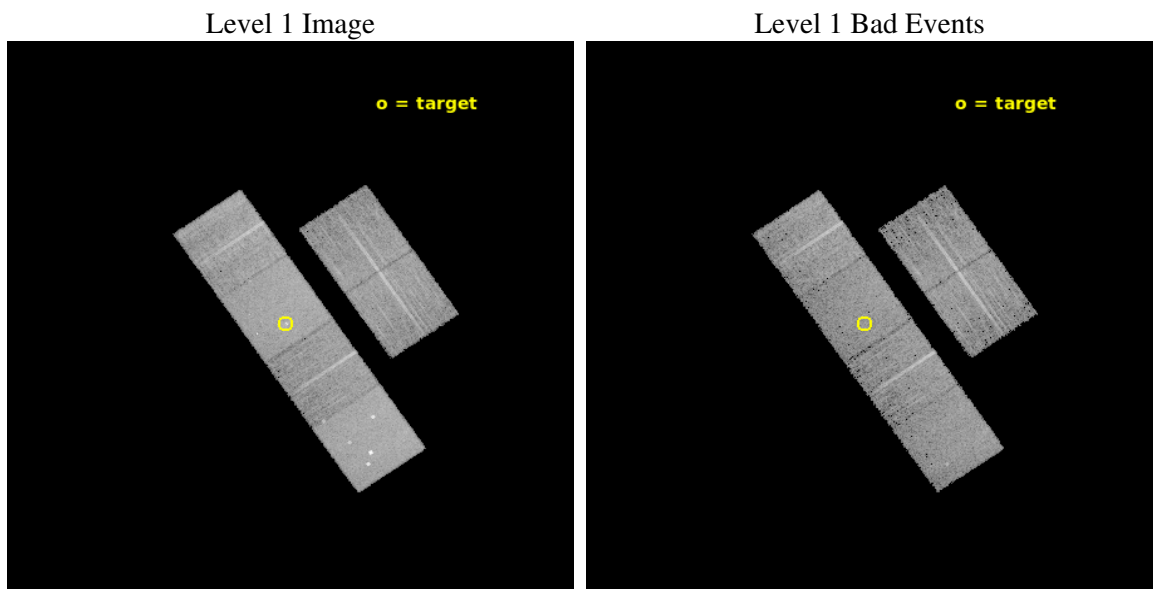
seq_num	600400	Sequence number
obs_id	4745	Observation id
title	The discrete X-ray source populations in an age sequence of nearby starburst galaxies	Proposal title
observer	Dr Andreas Zezas	Principal investigator
object	NGC1569	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	67.704167	Observer's specified target RA [deg]
dec_targ	64.848056	Observer's specified target Dec [deg]
ra_nom	67.685494275474	Nominal RA [deg]
dec_nom	64.844324146873	Nominal Dec [deg]
roll_nom	235.53598571325	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10153.599962175	Sum of GTIs [s]
livetime	10025.02896569	Livetime [s]
ontime2	10153.599962175	Sum of GTIs [s]
ontime3	10153.599962175	Sum of GTIs [s]
ontime5	10153.599962175	Sum of GTIs [s]
ontime6	10153.599962175	Sum of GTIs [s]
ontime7	10153.599962175	Sum of GTIs [s]
ontime8	10153.599962175	Sum of GTIs [s]
l2events	92213	Number of level 2 events



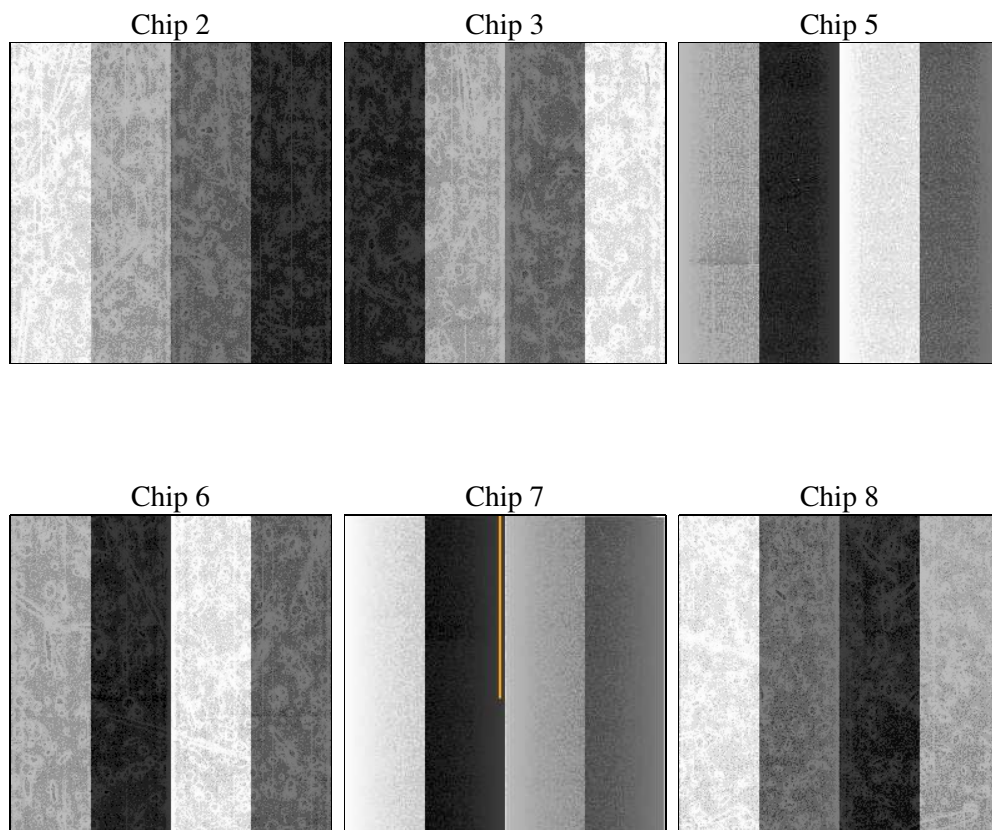
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10153.599962175	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	10153.599962175	Sum of GTIs [s]
date	2020-09-22T01:42:51	Date and time of file creation	ontime3	10153.599962175	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	10153.599962175	Sum of GTIs [s]
			ontime6	10153.599962175	Sum of GTIs [s]
			ontime7	10153.599962175	Sum of GTIs [s]
			ontime8	10153.599962175	Sum of GTIs [s]
			l1events	410521	Number of level 1 events

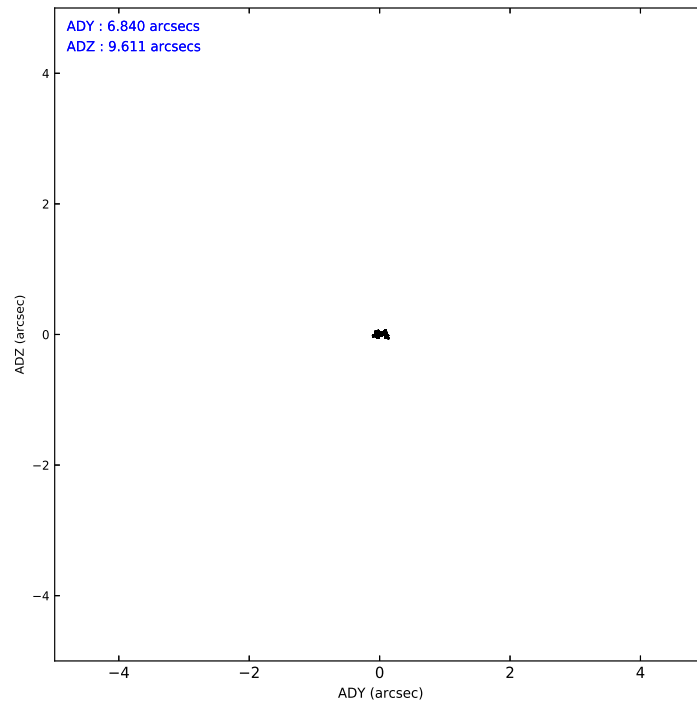
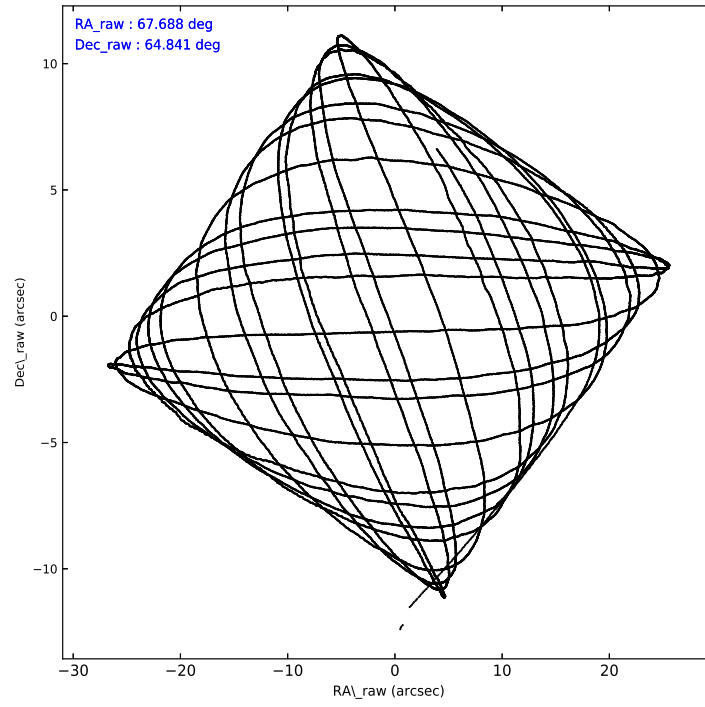
2.1.4 Events

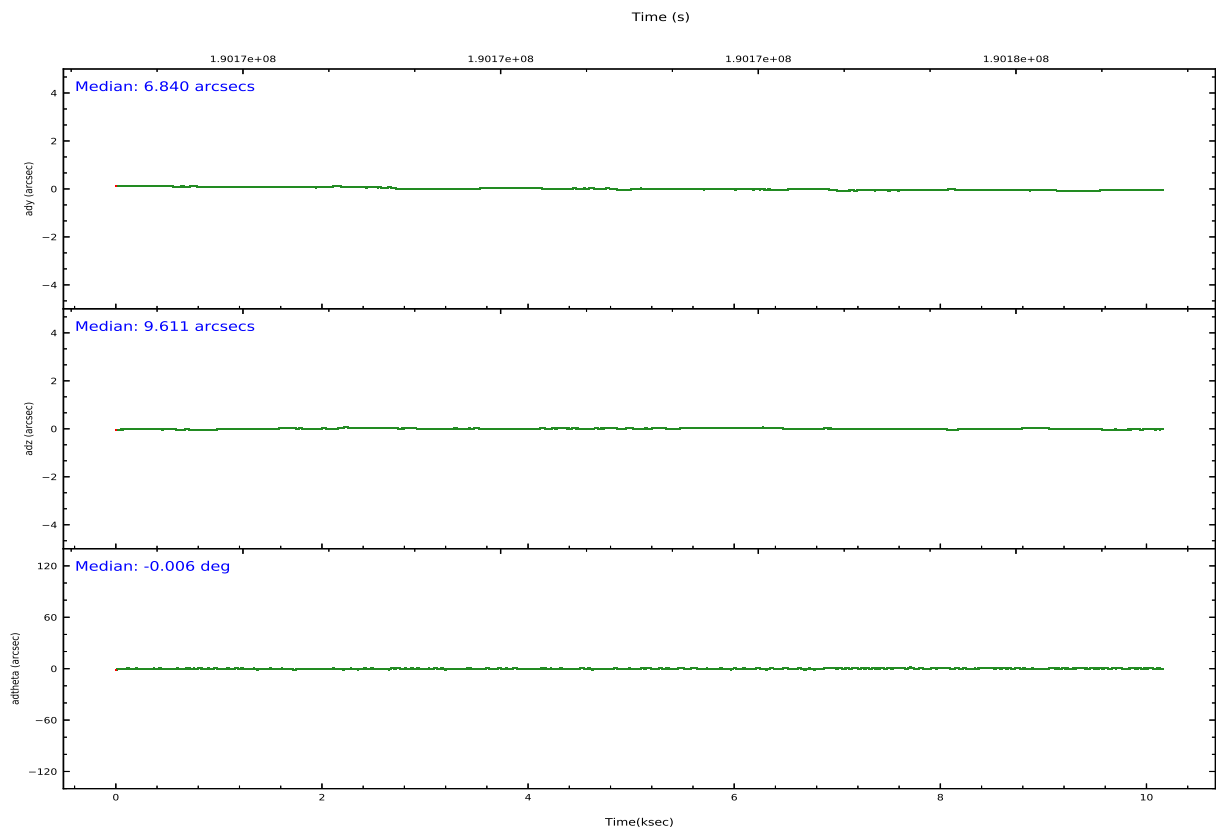
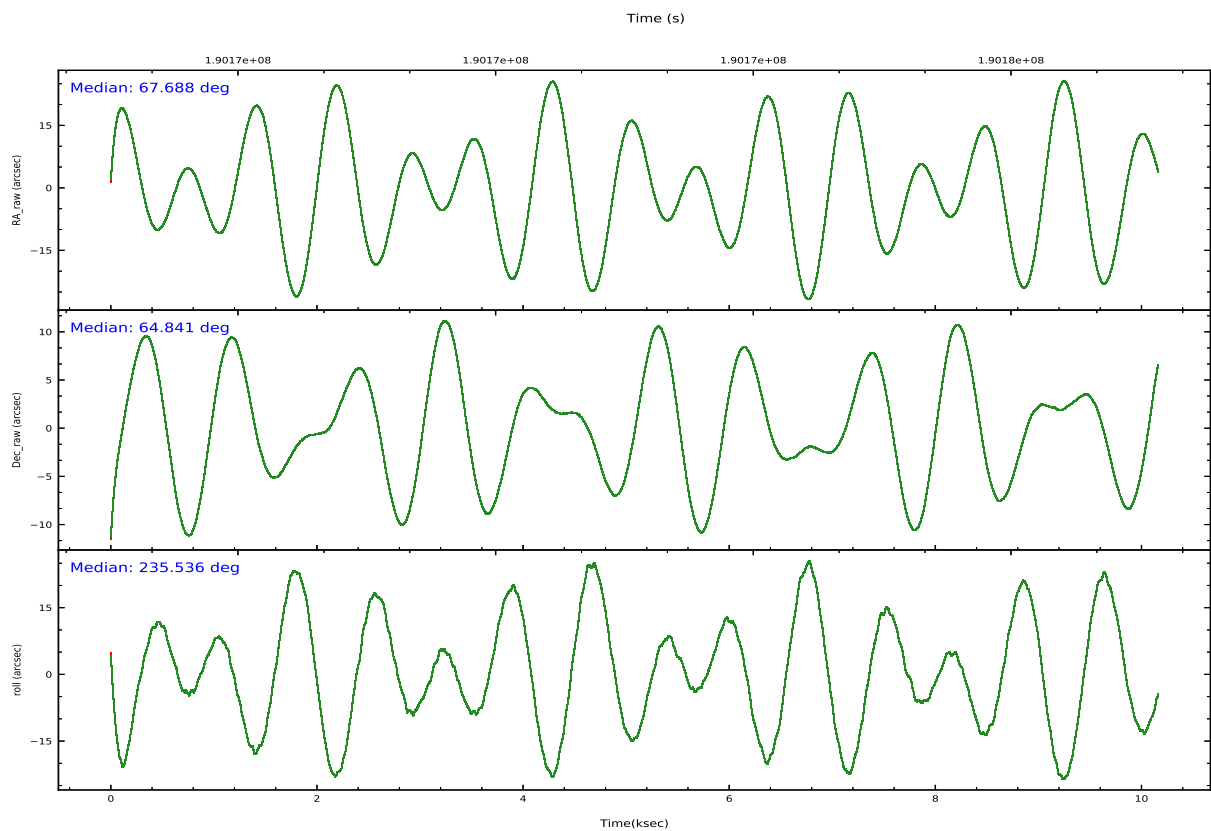
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	59199	54518	88977	56236	79228	72363	grade 0 events	2986	2970	7292	2764	3496	5052
rejected events	52328	47766	47369	49322	45877	57173		5%	5%	8%	4%	4%	6%
rejected %	88%	87%	53%	87%	57%	79%	grade 1 events	29	31	229	18	83	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	1460	1288	11489	1456	6758	3290
								2%	2%	12%	2%	8%	4%
							grade 3 events	663	663	1484	658	2903	1601
								1%	1%	1%	1%	3%	2%
							grade 4 events	649	634	1406	608	2978	1475
								1%	1%	1%	1%	3%	2%
							grade 5 events	2285	2484	6241	2693	7486	3570
								3%	4%	7%	4%	9%	4%
							grade 6 events	1171	1254	20326	1497	17550	3883
								1%	2%	22%	2%	22%	5%
							grade 7 events	49956	45194	40510	46542	37974	53447
								84%	82%	45%	82%	47%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	67.692337	67.685494275474	Subarray requested	NONE	NONE
[deg] Pointing Dec	64.868326	64.84432414687301	Alternating exposures requested	N	N
[deg] Pointing Roll	235.373376	235.53598571325	[s] Primary exposure time	0.000000	3.2
[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)	190166429.184000	190165326.19801			
Observation start date	2004-01-10T23:59:25	2004-01-10T23:42:06			
[s] Observation end time (MET)	190176429.184000	190177131.63602			
Observation end date	2004-01-11T02:46:05	2004-01-11T02:58:51			
Read mode	TIMED	TIMED			

2.3 Aspect



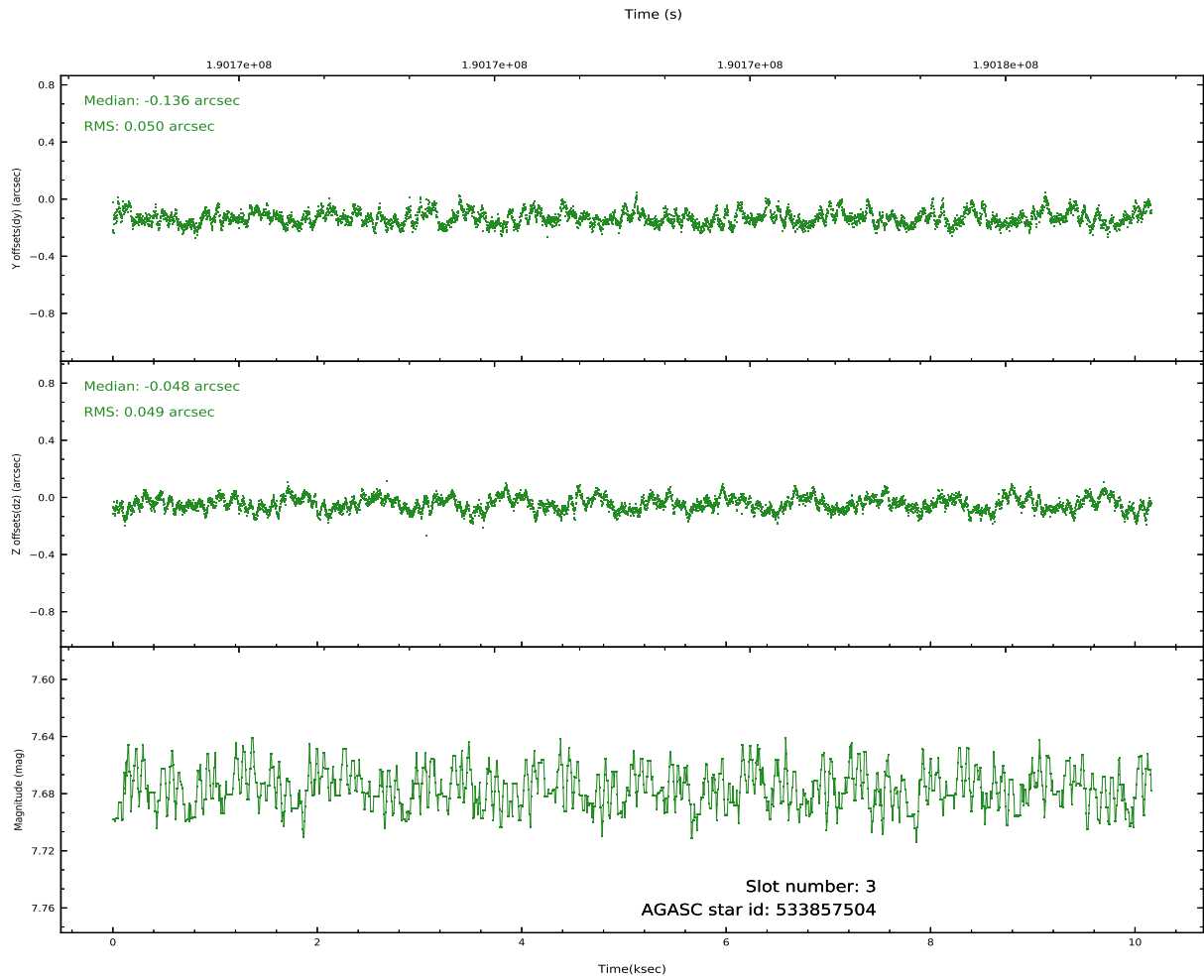
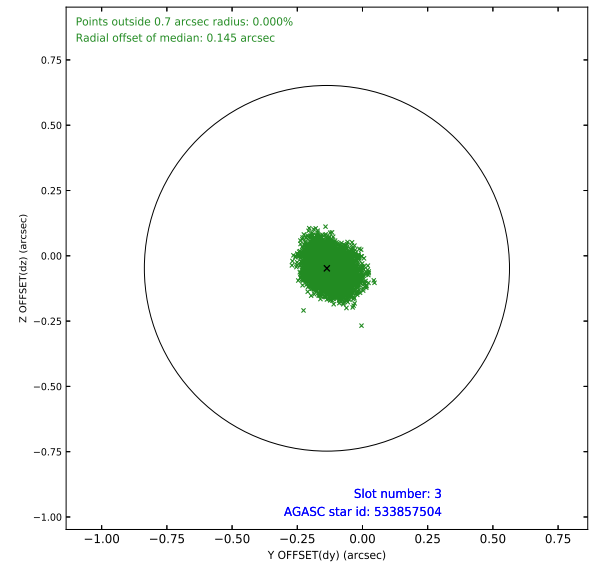
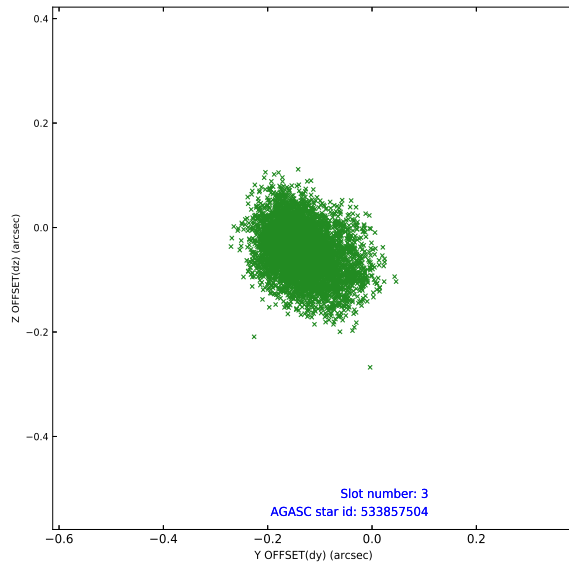


Slot Statistics

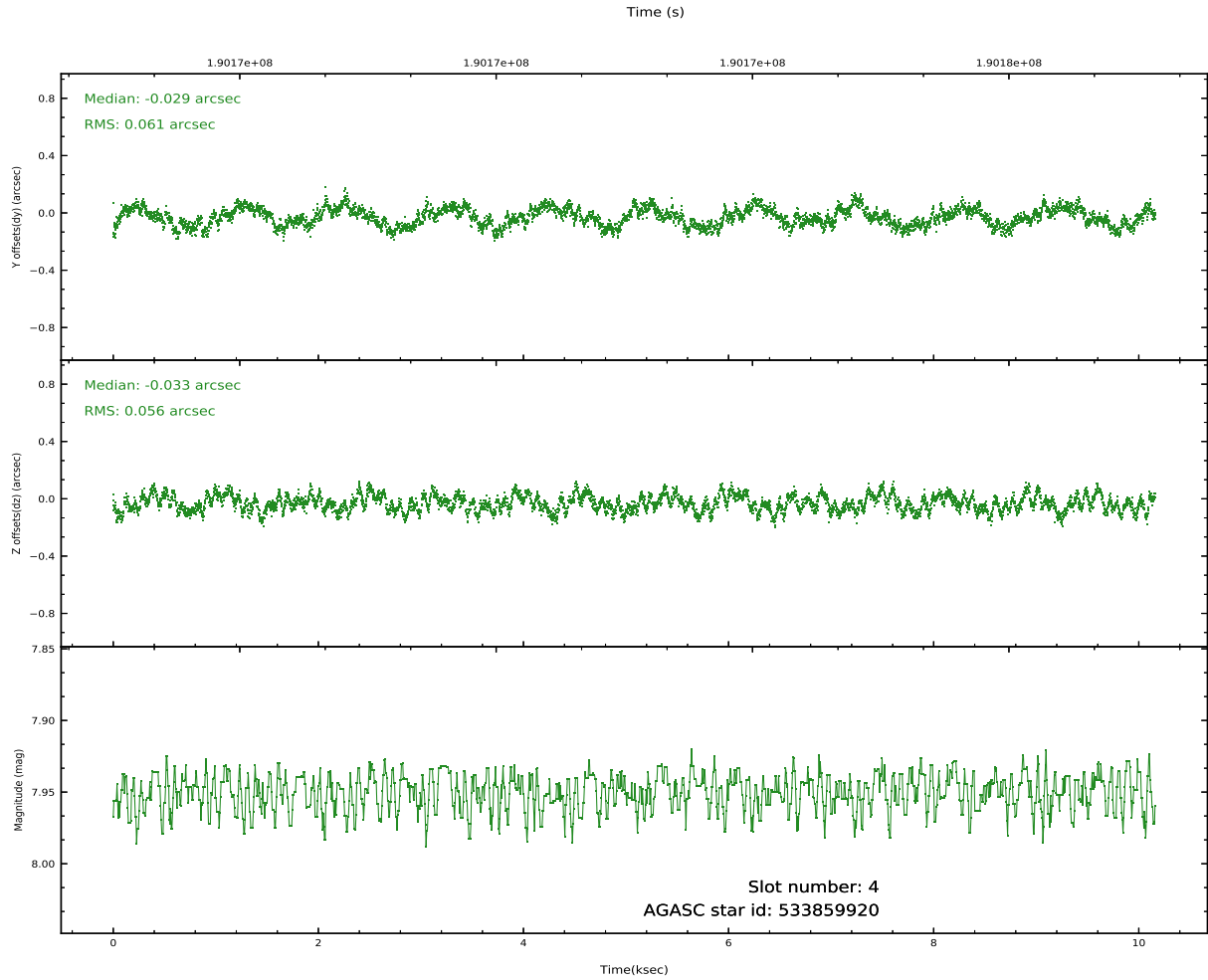
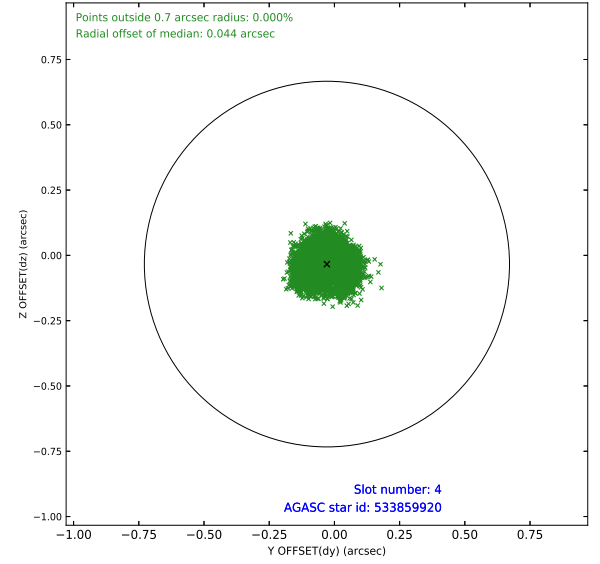
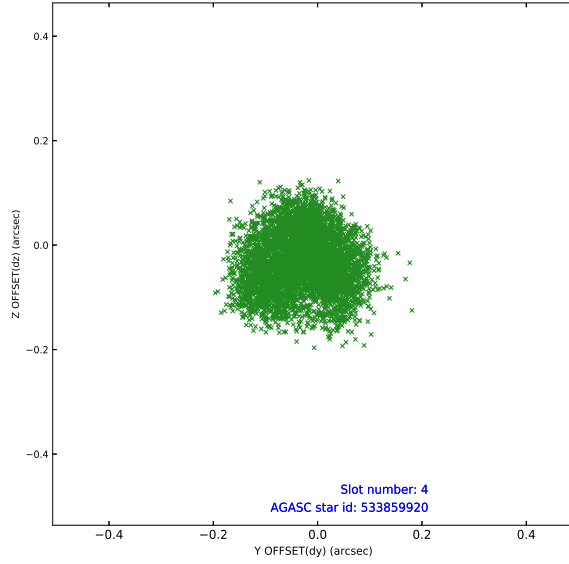
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	2479	1.000	-0.074	-0.054	0.007	0.011	0.000000	0.000000	-759.61	-1730
1	FID		ACIS-S-4	7.20	2479	1.000	0.126	0.050	0.005	0.010	0.000000	0.000000	2153.57	177
2	FID		ACIS-S-5	7.23	2478	1.000	-0.083	0.013	0.007	0.013	0.000000	0.000000	-1811.85	171
3	GUIDE	used	533857504	7.68	4957	1.000	-0.136	-0.048	0.075	0.121	68.314378	64.988238	-896.94	531
4	GUIDE	used	533859920	7.95	4958	1.000	-0.029	-0.033	0.092	0.133	67.647151	65.051129	-502.62	-430
5	GUIDE	used	535573640	8.73	4958	1.000	-0.046	0.018	0.102	0.162	69.527040	64.863934	-1614.59	2294
6	GUIDE	used	533863240	8.95	4952	1.000	0.158	-0.014	0.204	0.268	67.608757	64.239522	1936.82	1179
7	GUIDE	used	533865560	9.11	4954	1.000	0.073	0.065	0.088	0.138	68.062227	64.246964	1511.06	1746

2.4 Star Slots

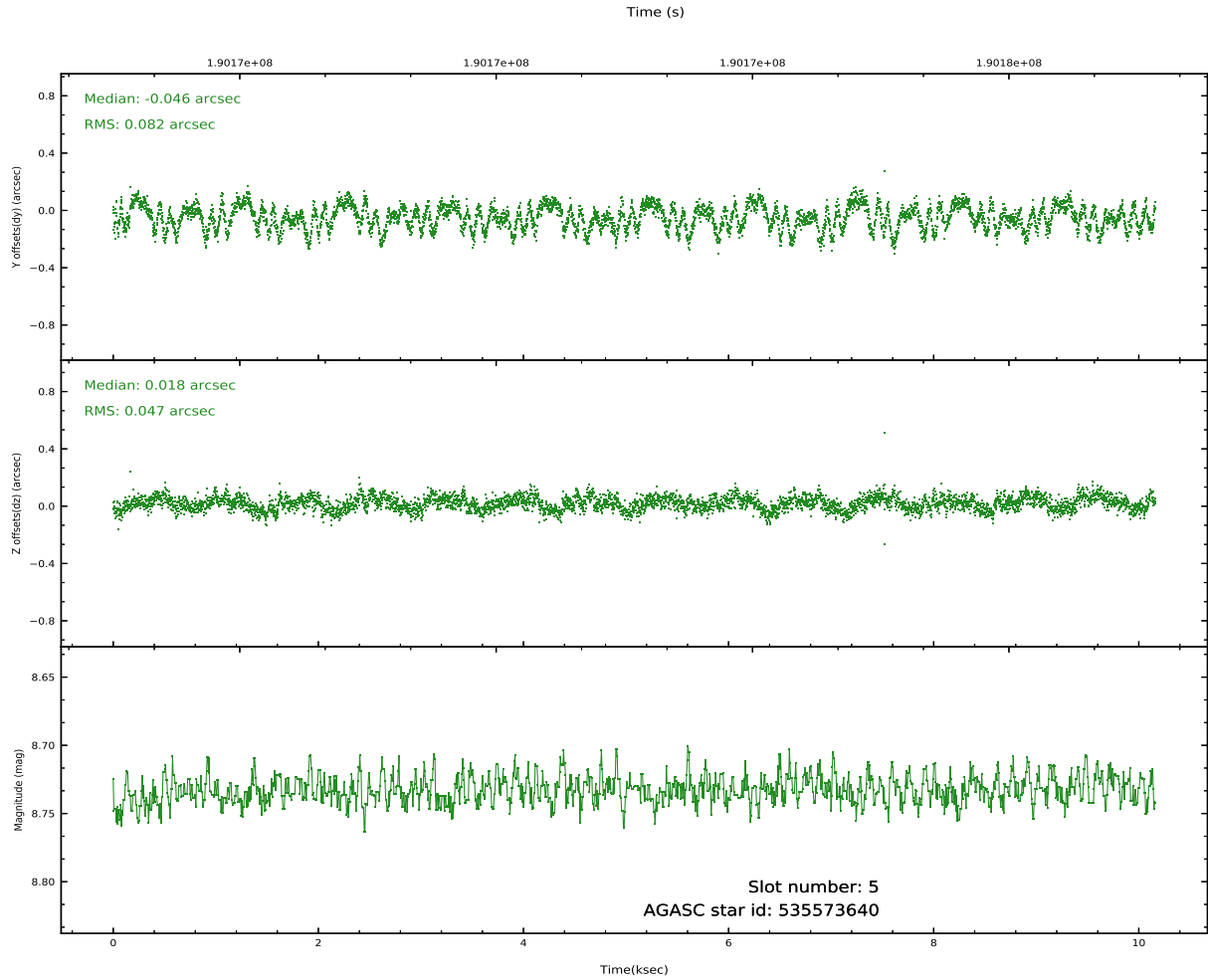
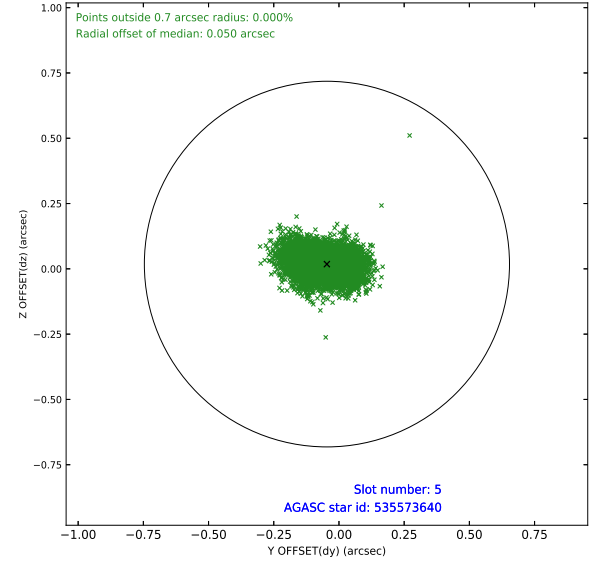
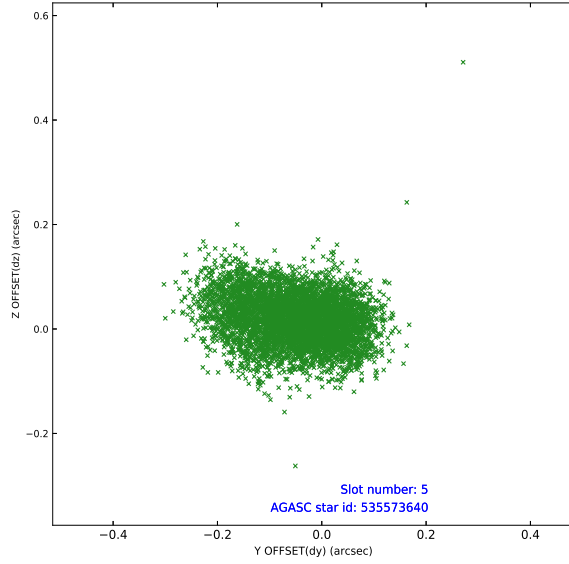
2.4.1 Slot 3



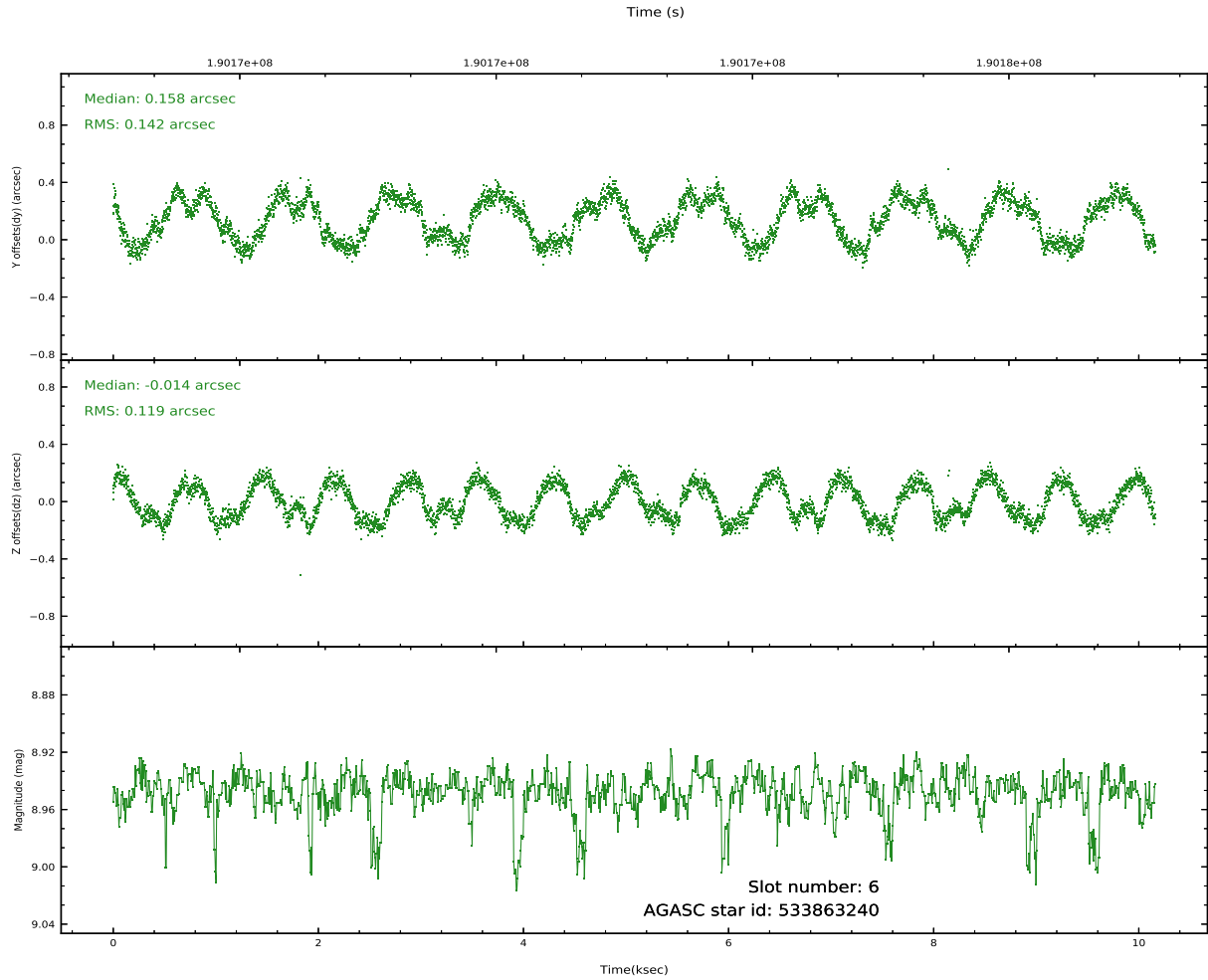
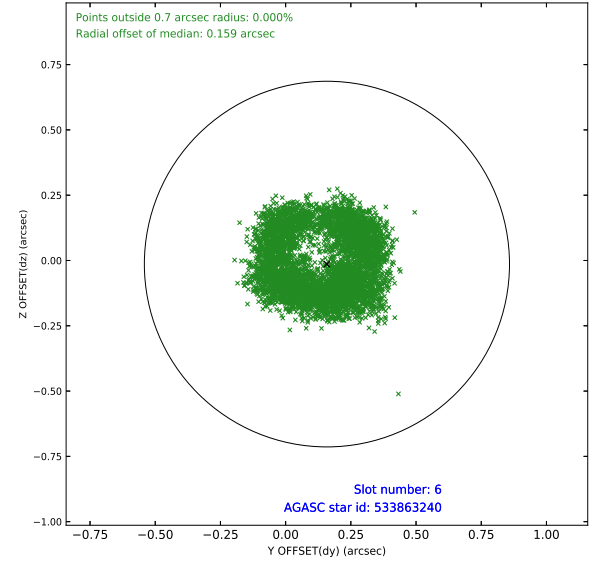
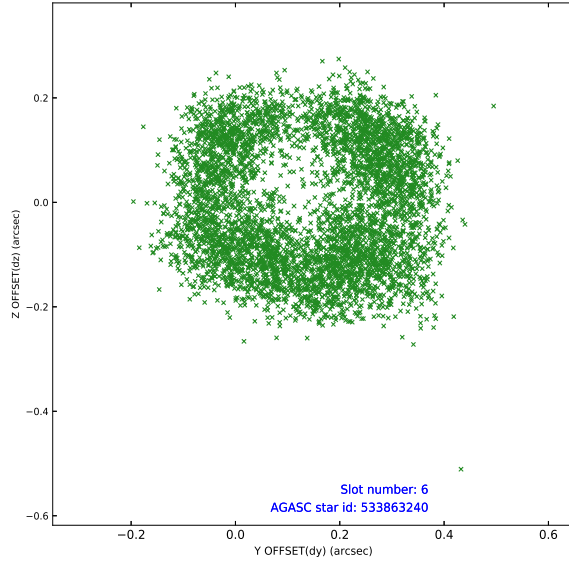
2.4.2 Slot 4



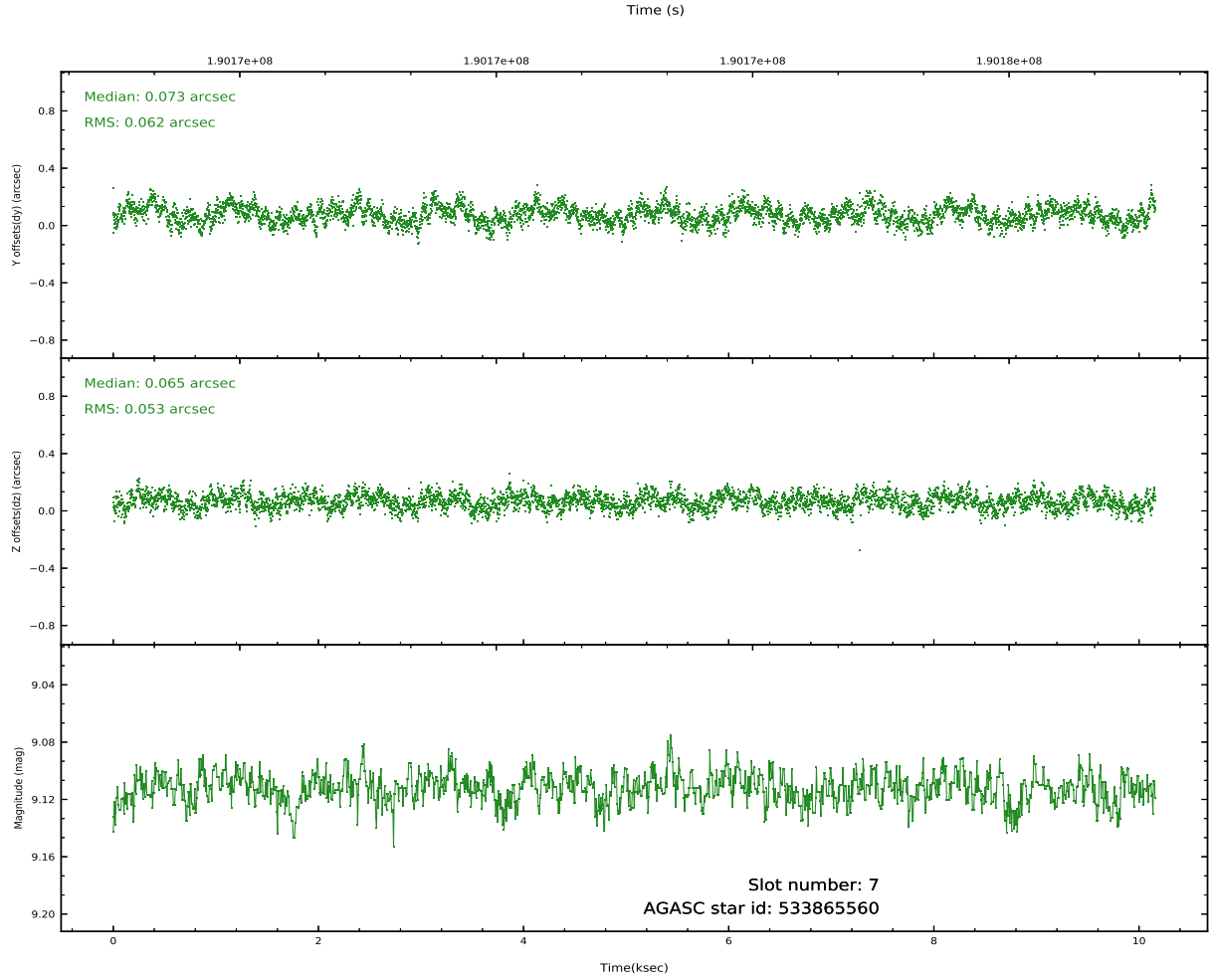
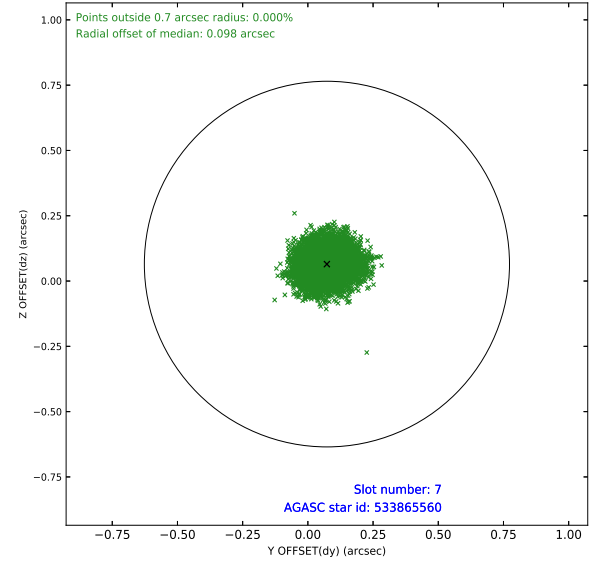
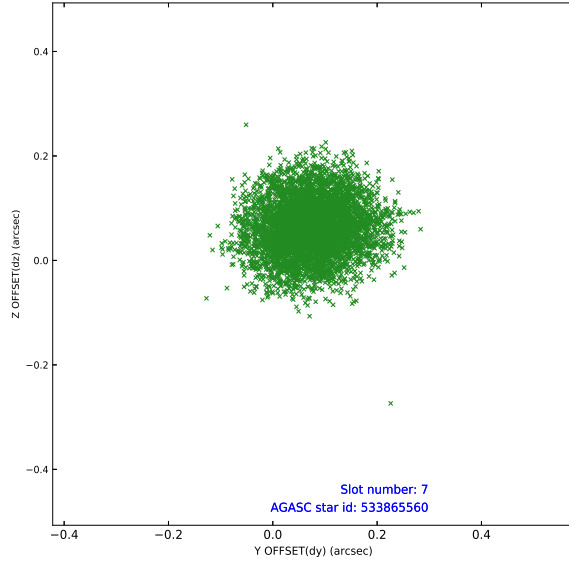
2.4.3 Slot 5



2.4.4 Slot 6

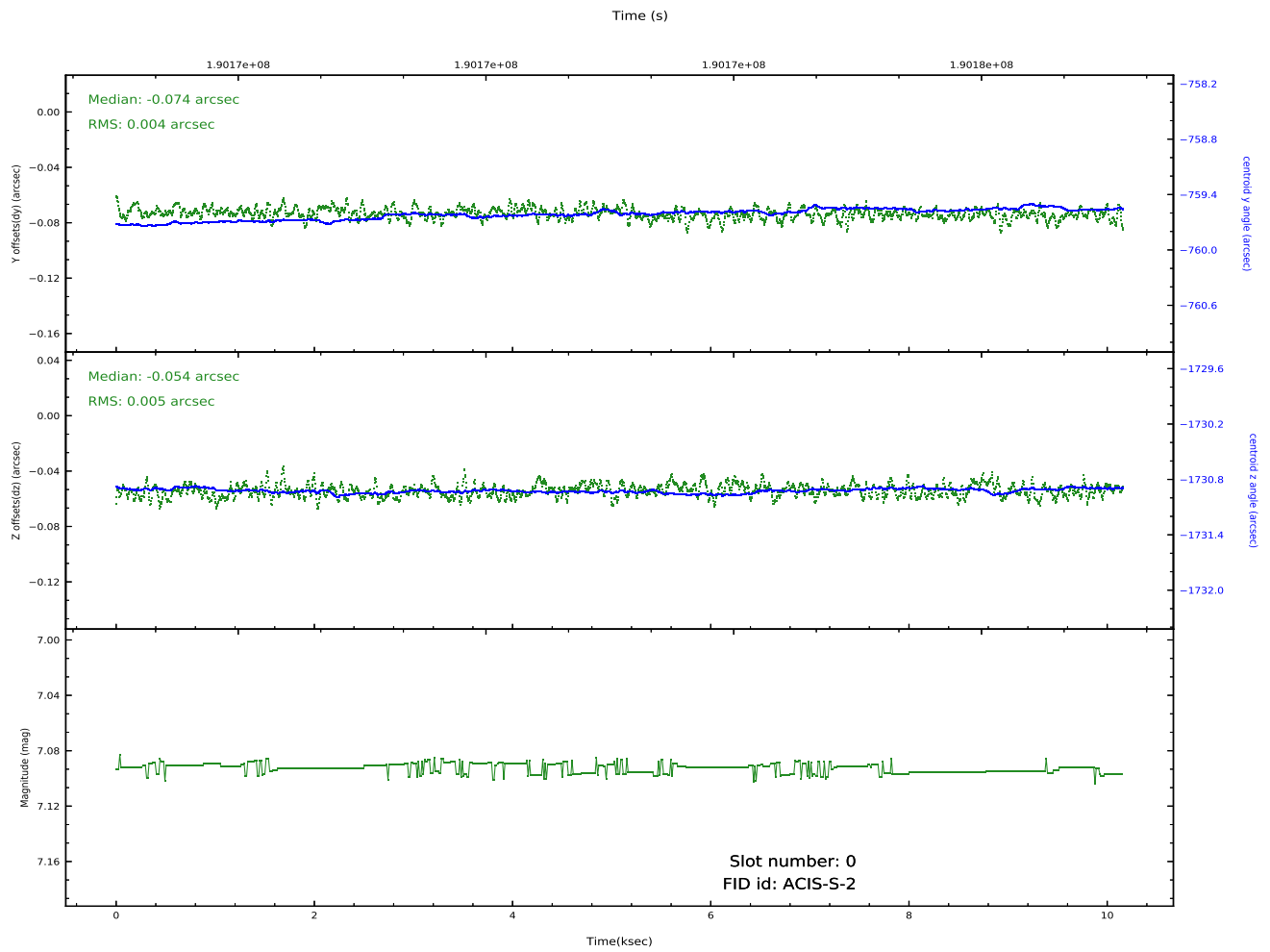
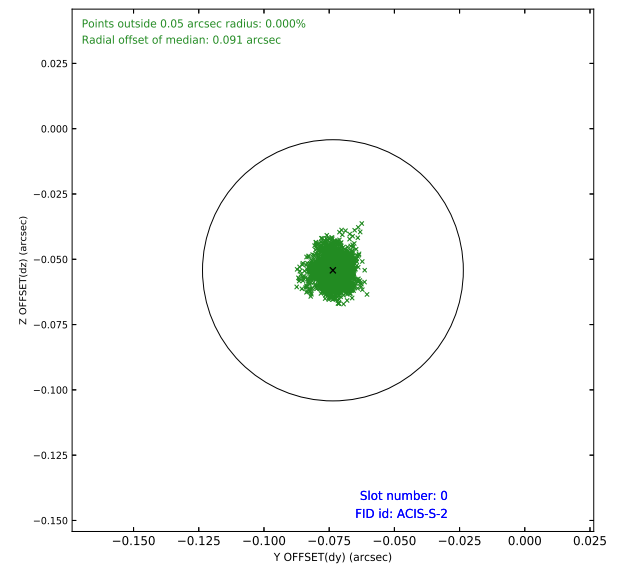
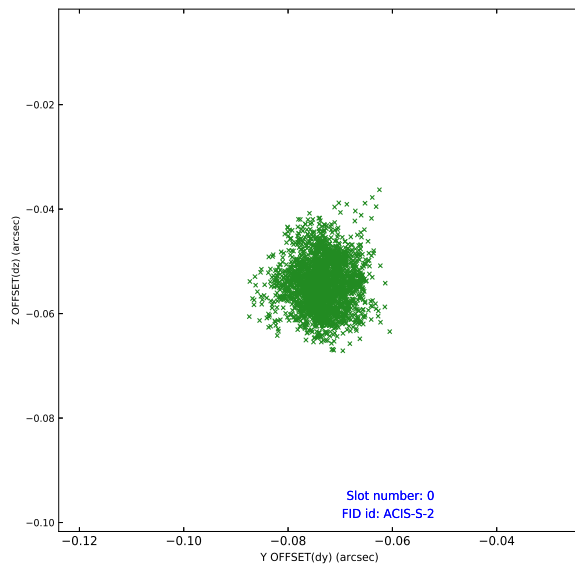


2.4.5 Slot 7

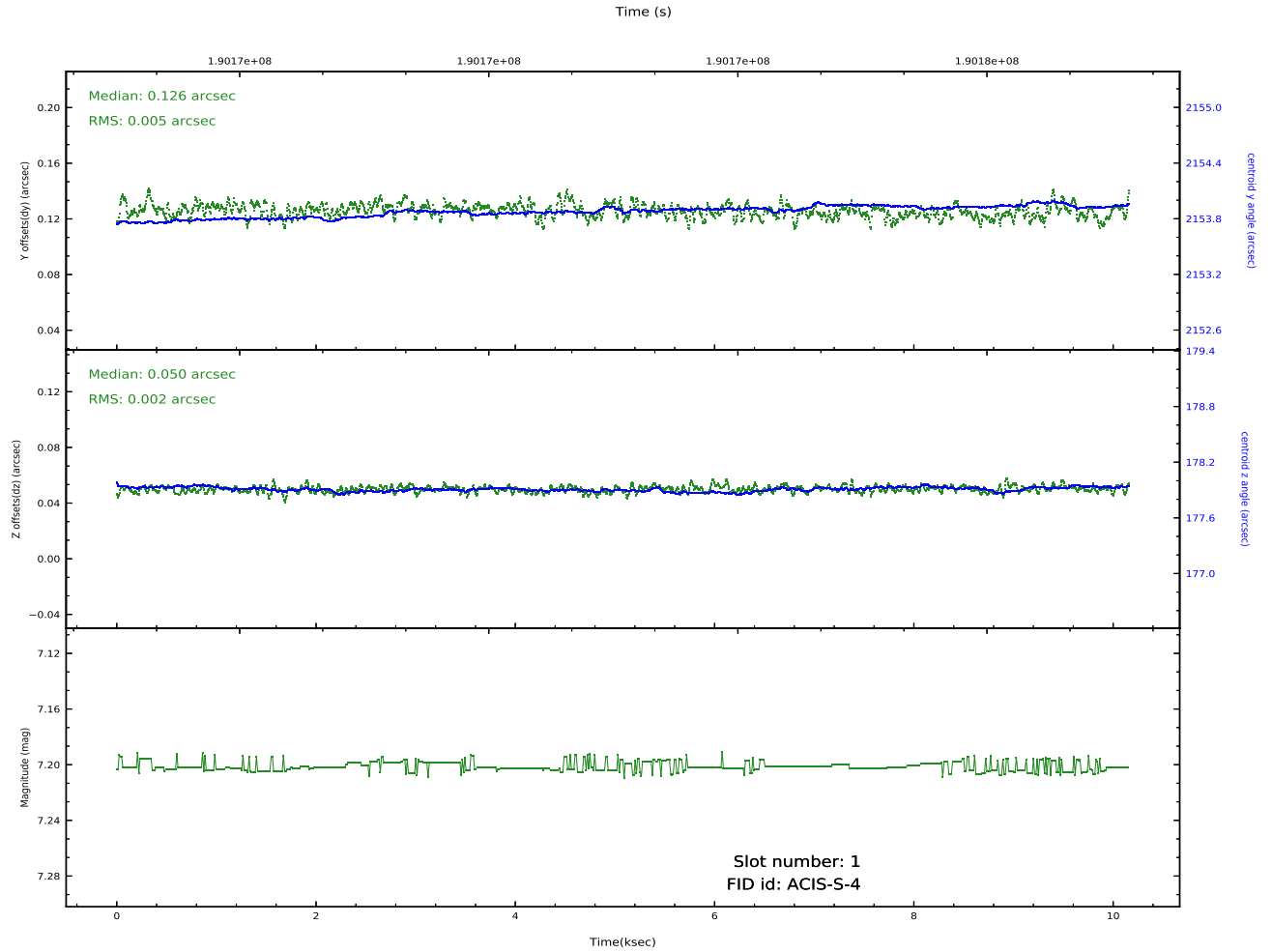
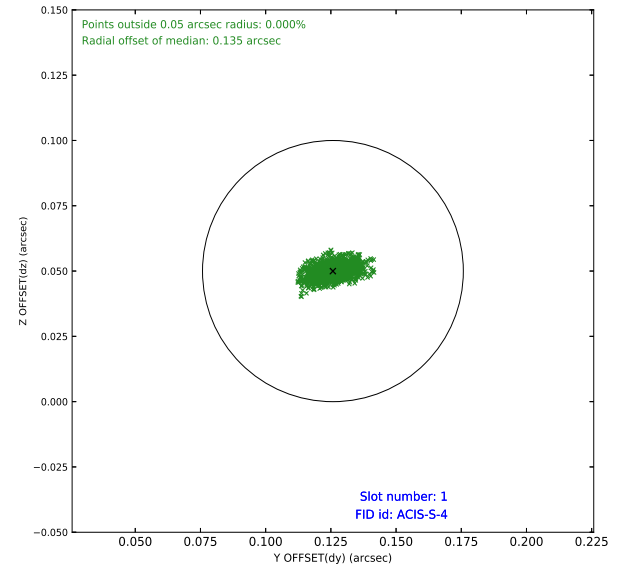
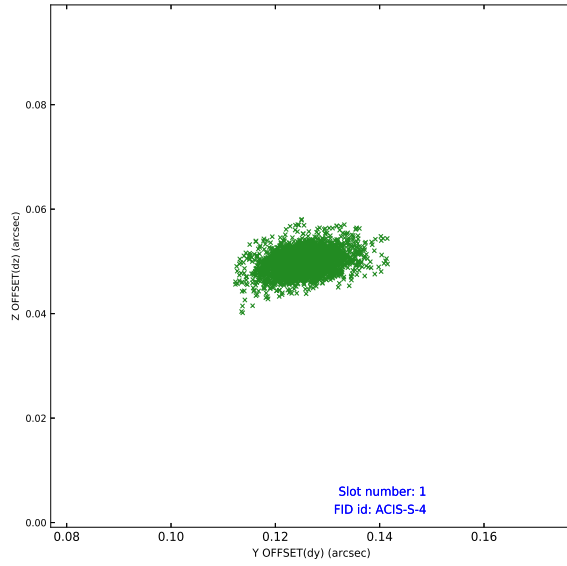


2.5 FID Slots

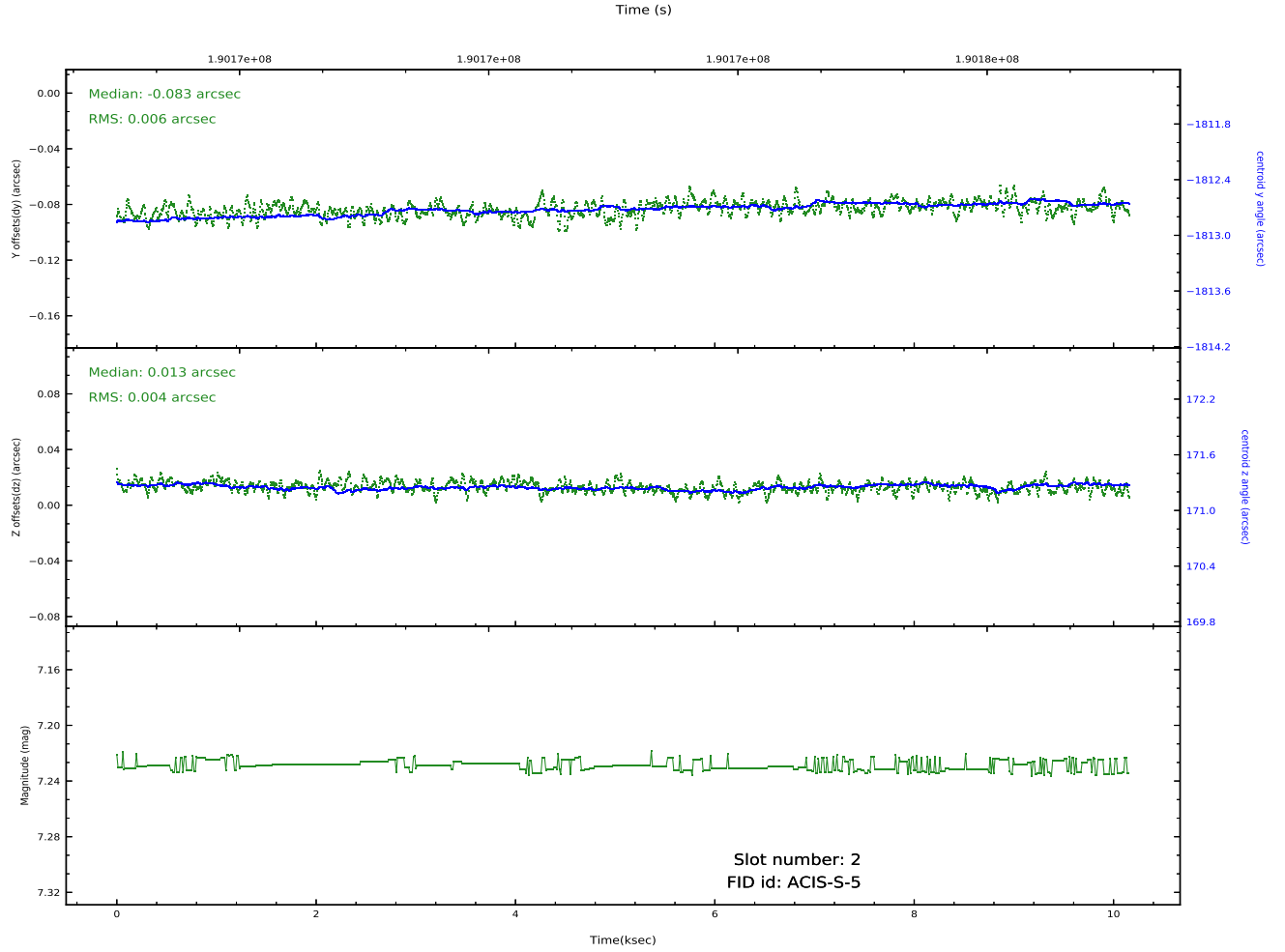
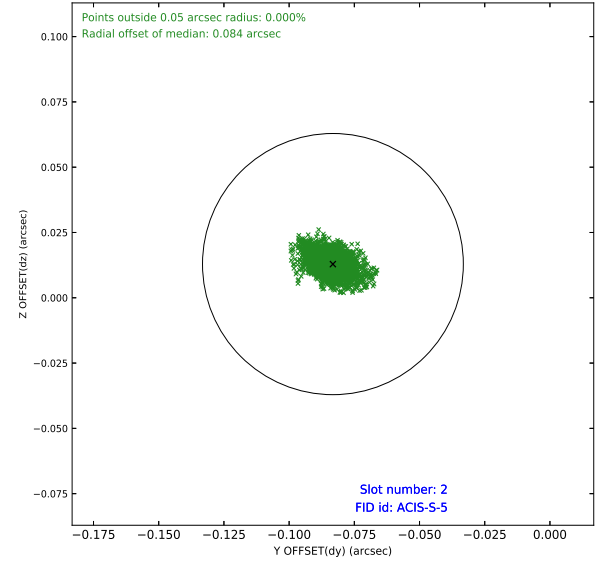
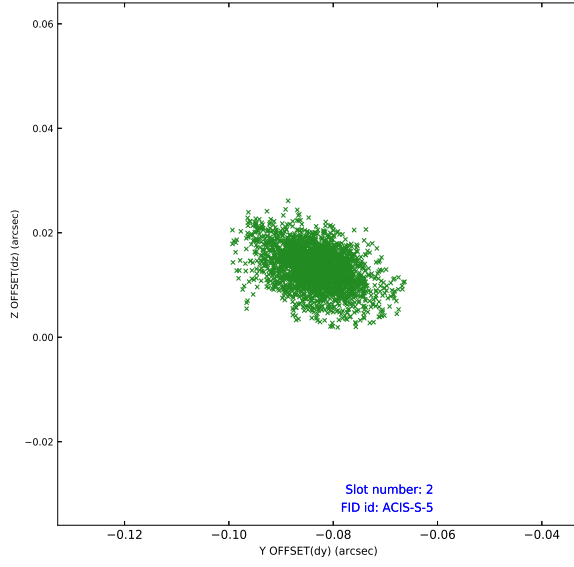
2.5.1 Slot 0



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)	2020.09.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.153

A.2 Comments