

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5949 - L2 Version 4
Chandra X-Ray Center

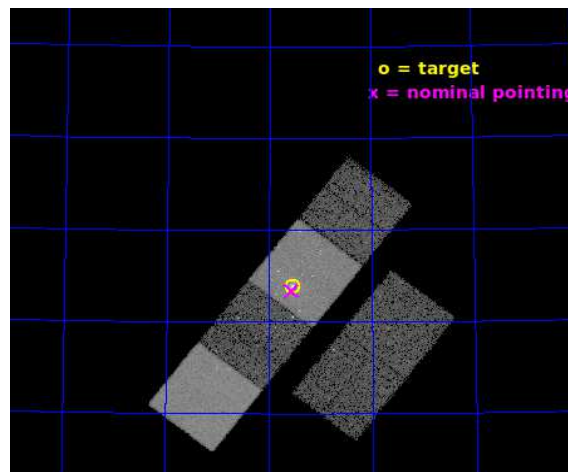
L2 Processing Date : Oct 9 2020

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1 Front

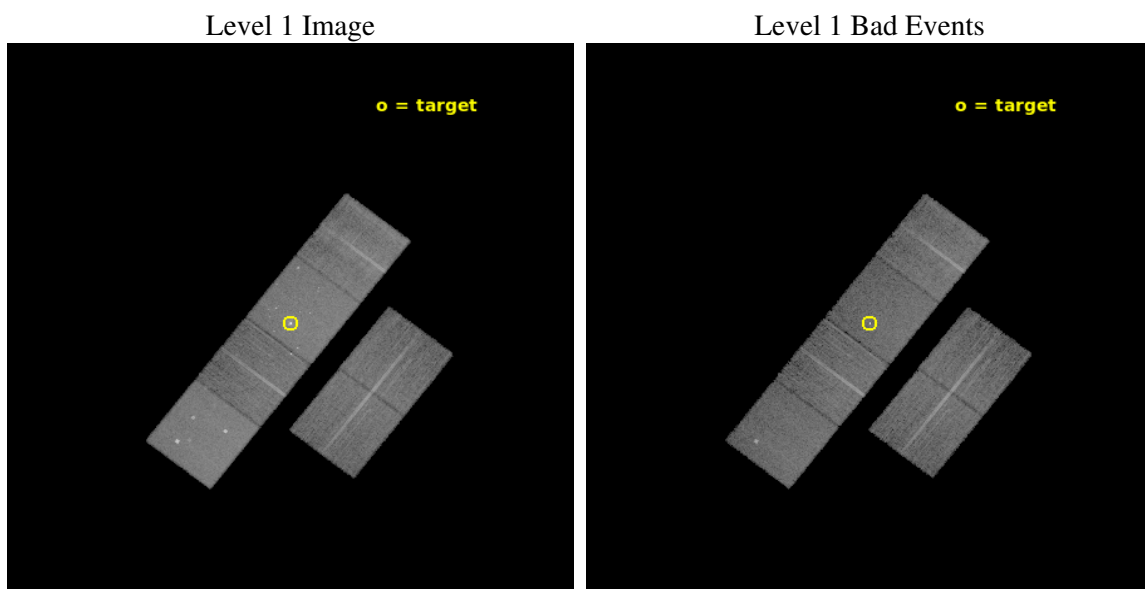
seq_num	600468	Sequence number
obs_id	5949	Observation id
title	An Unprecedented View of a Galaxy's Dynamic X-ray Source Population	
observer	David Pooley	Principal investigator
object	M81	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.888333	Observer's specified target RA [deg]
dec_targ	69.065306	Observer's specified target Dec [deg]
ra_nom	148.88917296085	Nominal RA [deg]
dec_nom	69.056571326172	Nominal Dec [deg]
roll_nom	307.75397318213	Nominal Roll [deg]
revision	4	Processing version of data
ontime	12175.999954641	Sum of GTIs [s]
livetime	12021.820111708	Livetime [s]
ontime2	12175.999954641	Sum of GTIs [s]
ontime3	12175.999954641	Sum of GTIs [s]
ontime5	12175.999954641	Sum of GTIs [s]
ontime6	12175.999954641	Sum of GTIs [s]
ontime7	12175.999954641	Sum of GTIs [s]
ontime8	12175.999954641	Sum of GTIs [s]
l2events	167886	Number of level 2 events



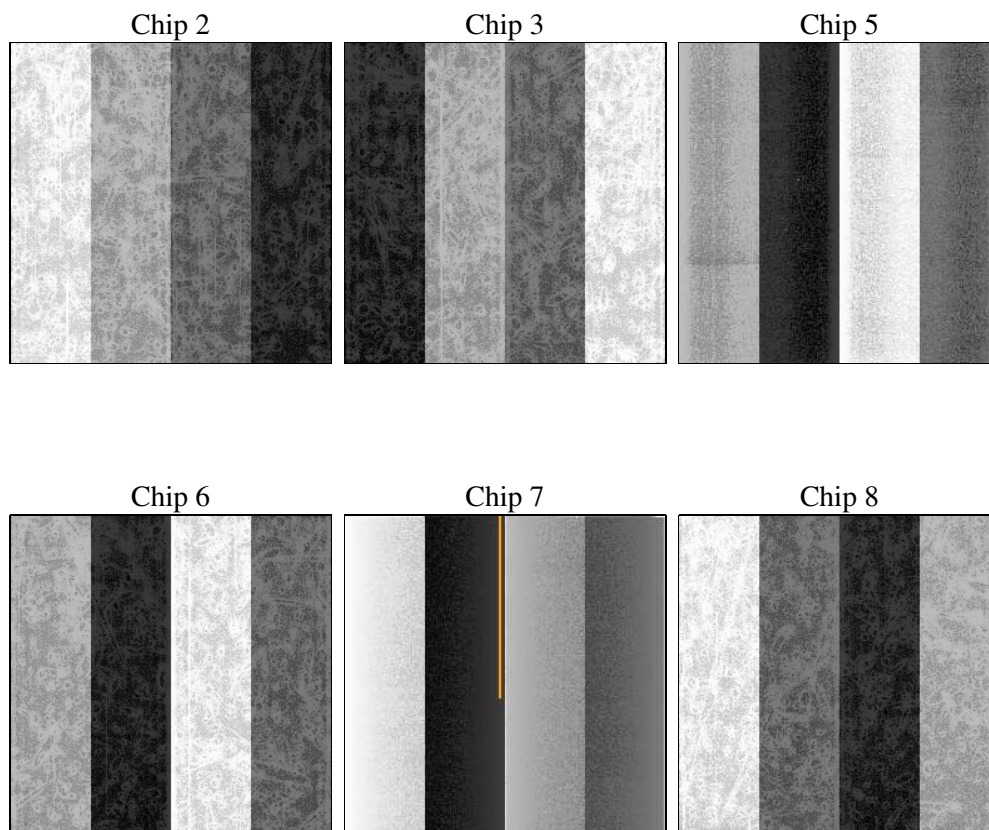
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	12175.999954641	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	12175.999954641	Sum of GTIs [s]
date	2020-10-09T07:21:56	Date and time of file creation	ontime3	12175.999954641	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	12175.999954641	Sum of GTIs [s]
			ontime6	12175.999954641	Sum of GTIs [s]
			ontime7	12175.999954641	Sum of GTIs [s]
			ontime8	12175.999954641	Sum of GTIs [s]
			l1events	728028	Number of level 1 events

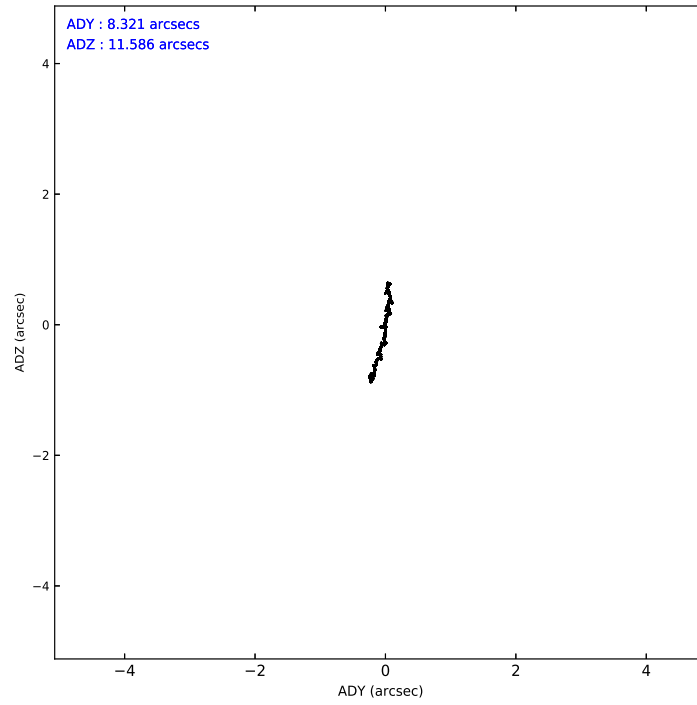
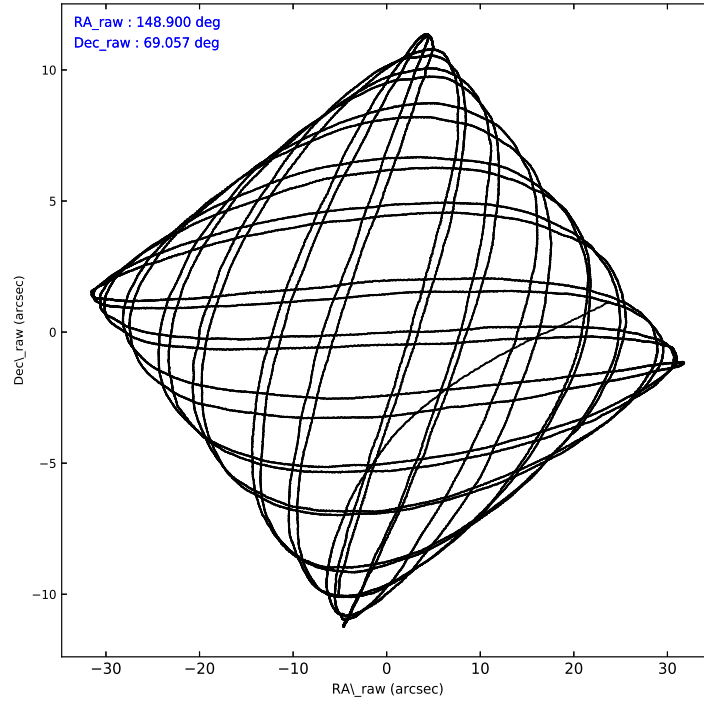
2.1.4 Events

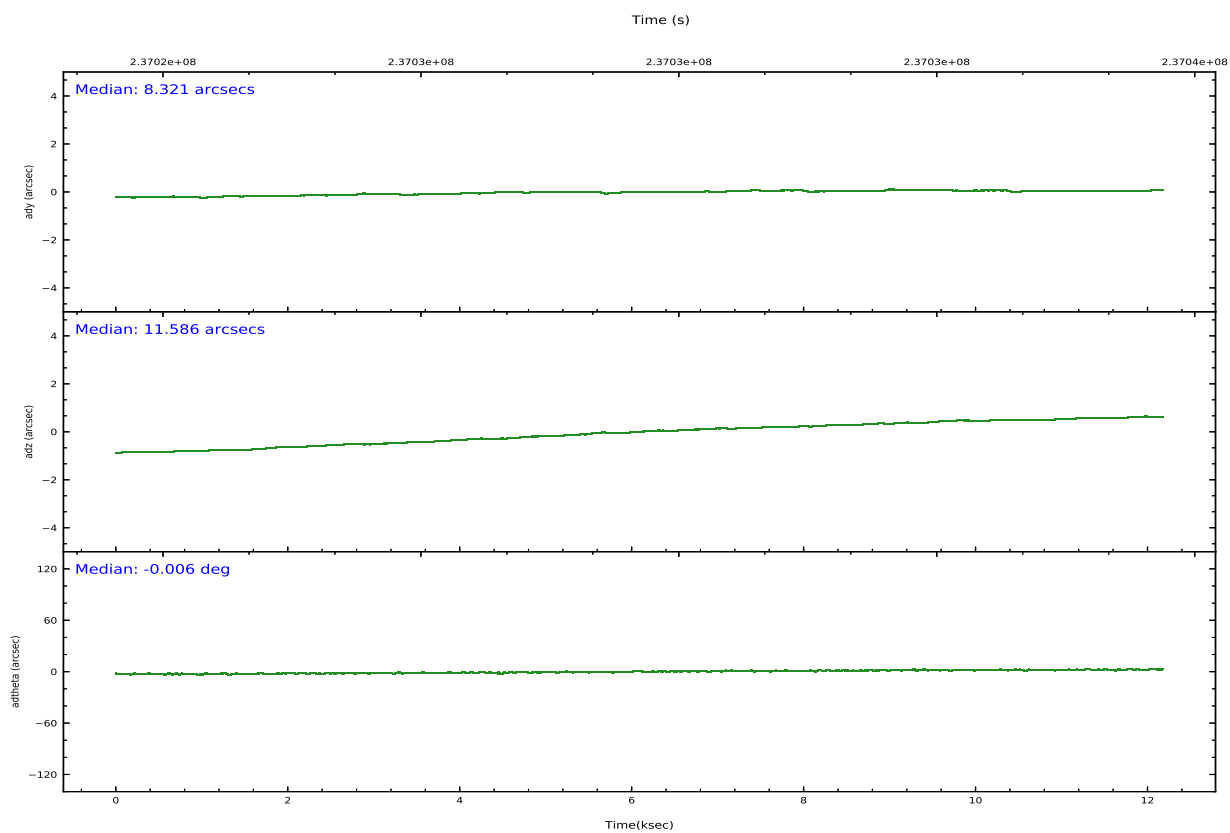
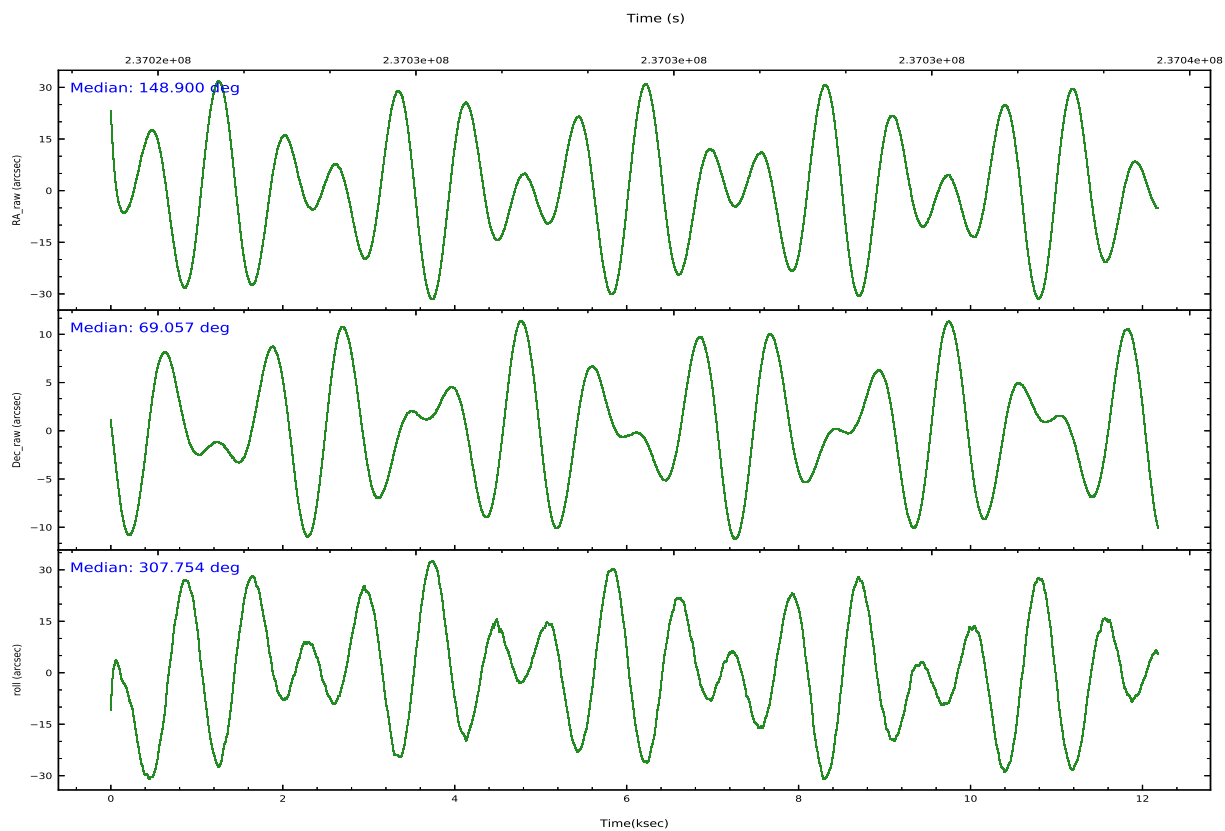
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	100509	96288	154358	103257	147278	126338	grade 0 events	5339	4971	9937	6164	7448	8245
rejected events	88924	85066	83493	89702	83500	99756		5%	5%	6%	5%	5%	6%
rejected %	88%	88%	54%	86%	56%	78%	grade 1 events	67	64	1159	76	254	89
								0%	0%	0%	0%	0%	0%
							grade 2 events	2374	2253	20680	2785	13402	6162
								2%	2%	13%	2%	9%	4%
							grade 3 events	1081	1109	2576	1220	5992	2904
								1%	1%	1%	1%	4%	2%
							grade 4 events	1082	1077	2601	1193	5788	2641
								1%	1%	1%	1%	3%	2%
							grade 5 events	3784	4537	10815	4619	13517	6183
								3%	4%	7%	4%	9%	4%
							grade 6 events	1930	2011	36525	2450	32473	7158
								1%	2%	23%	2%	22%	5%
							grade 7 events	84852	80266	70065	84750	68404	92956
								84%	83%	45%	82%	46%	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	148.829968	148.88917296085	Subarray requested	NONE	NONE
[deg] Pointing Dec	69.066696	69.056571326172	Alternating exposures requested	N	N
[deg] Pointing Roll	307.662297	307.75397318213	[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)	237024633.184000	237023443.14301			
Observation start date	2005-07-06T08:09:29	2005-07-06T07:50:43			
[s] Observation end time (MET)	237036633.184000	237036966.99363			
Observation end date	2005-07-06T11:29:29	2005-07-06T11:36:06			
Read mode	TIMED	TIMED			

2.3 Aspect



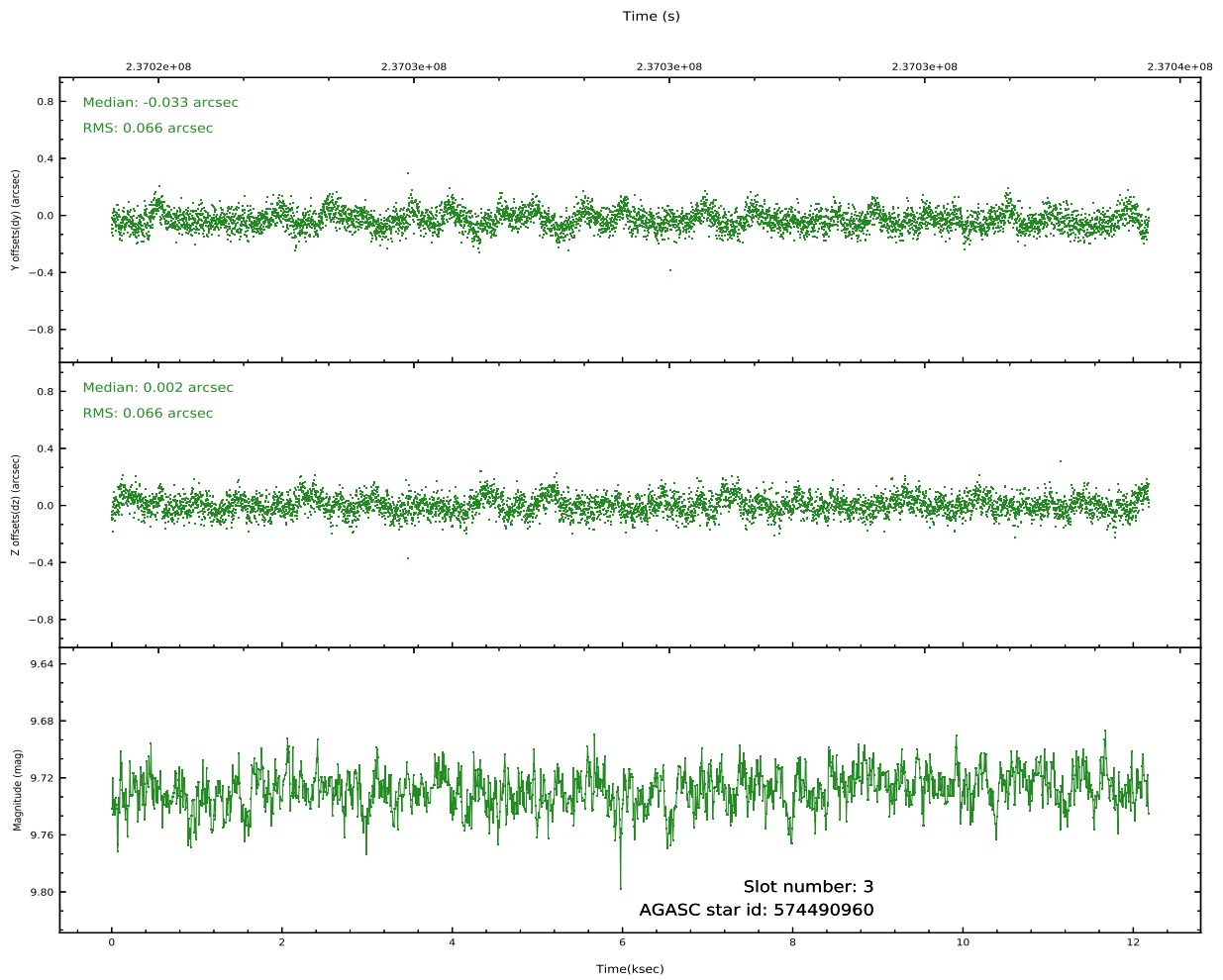
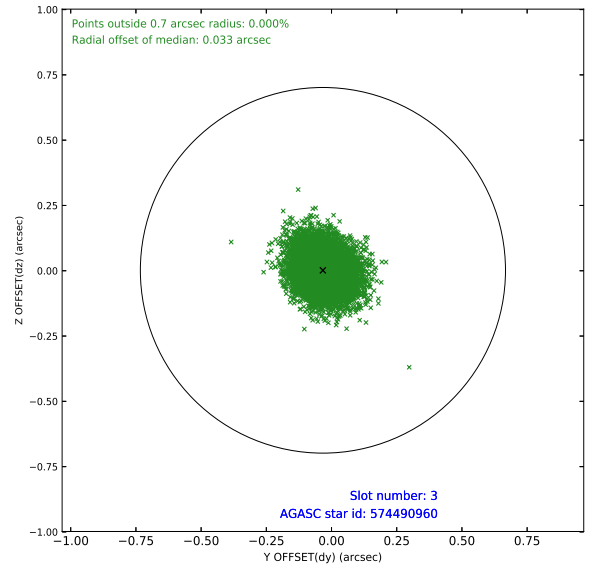
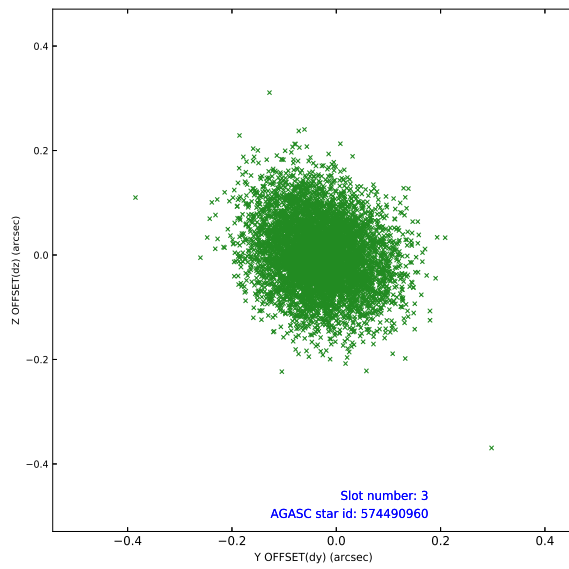


Slot Statistics

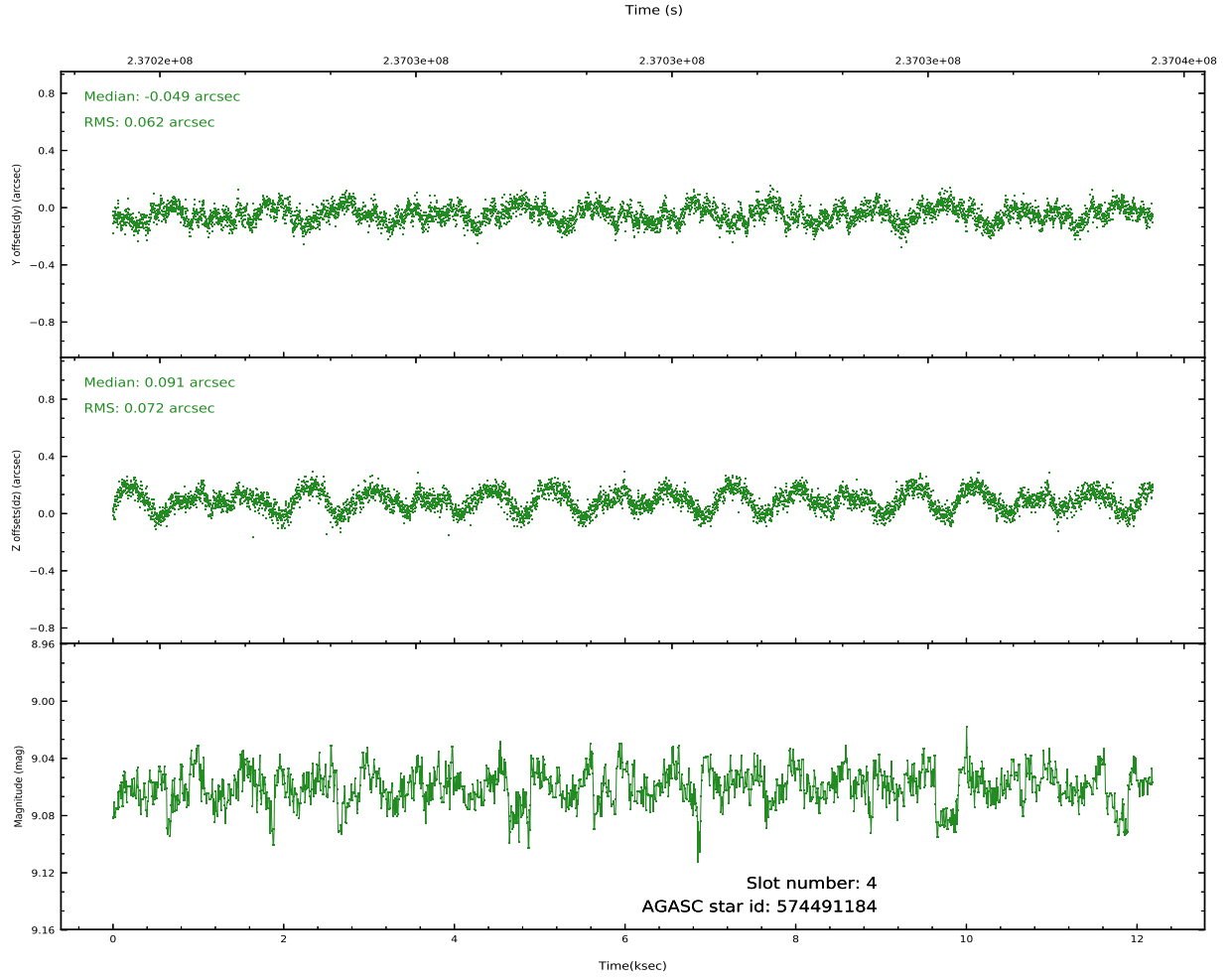
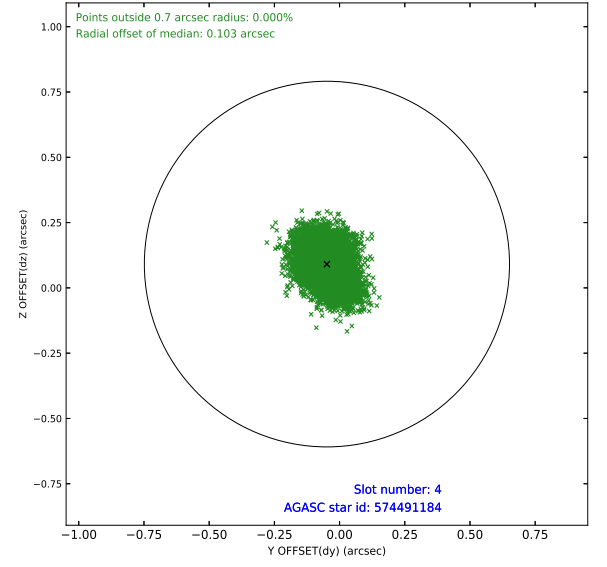
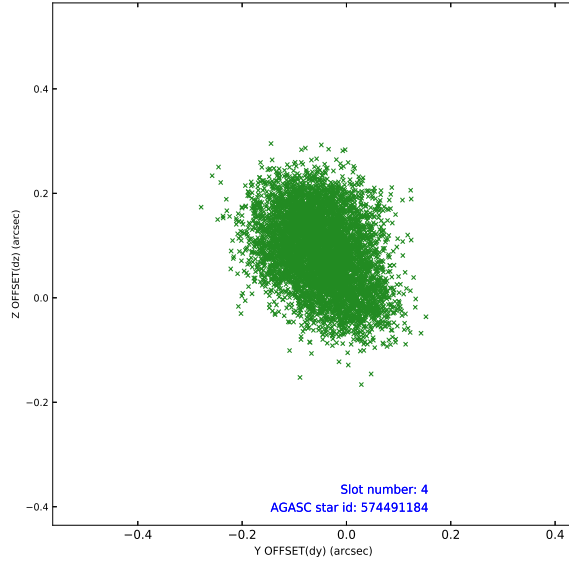
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2972	1.000	-0.056	-0.061	0.016	0.024	0.000000	0.000000	-761.08	-1732
1	FID		ACIS-S-4	7.20	2972	1.000	0.174	0.044	0.009	0.015	0.000000	0.000000	2152.19	175
2	FID		ACIS-S-5	7.23	2971	1.000	-0.149	0.026	0.015	0.023	0.000000	0.000000	-1813.54	169
3	GUIDE	used	574490960	9.73	5940	1.000	-0.033	0.002	0.099	0.161	148.185918	69.658768	-2182.86	667
4	GUIDE	used	574491184	9.06	5940	1.000	-0.049	0.091	0.103	0.159	148.582453	69.768699	-2189.63	1301
5	GUIDE	used	574491280	9.32	5939	1.000	-0.062	-0.013	0.130	0.211	148.611567	69.450135	-1261.93	624
6	GUIDE	used	574489568	9.78	5934	1.000	-0.009	0.034	0.123	0.196	147.223974	69.438157	-2320.11	-773
7	GUIDE	used	574490584	9.54	5931	1.000	0.144	-0.099	0.125	0.197	148.421828	68.168920	2223.80	-2405

2.4 Star Slots

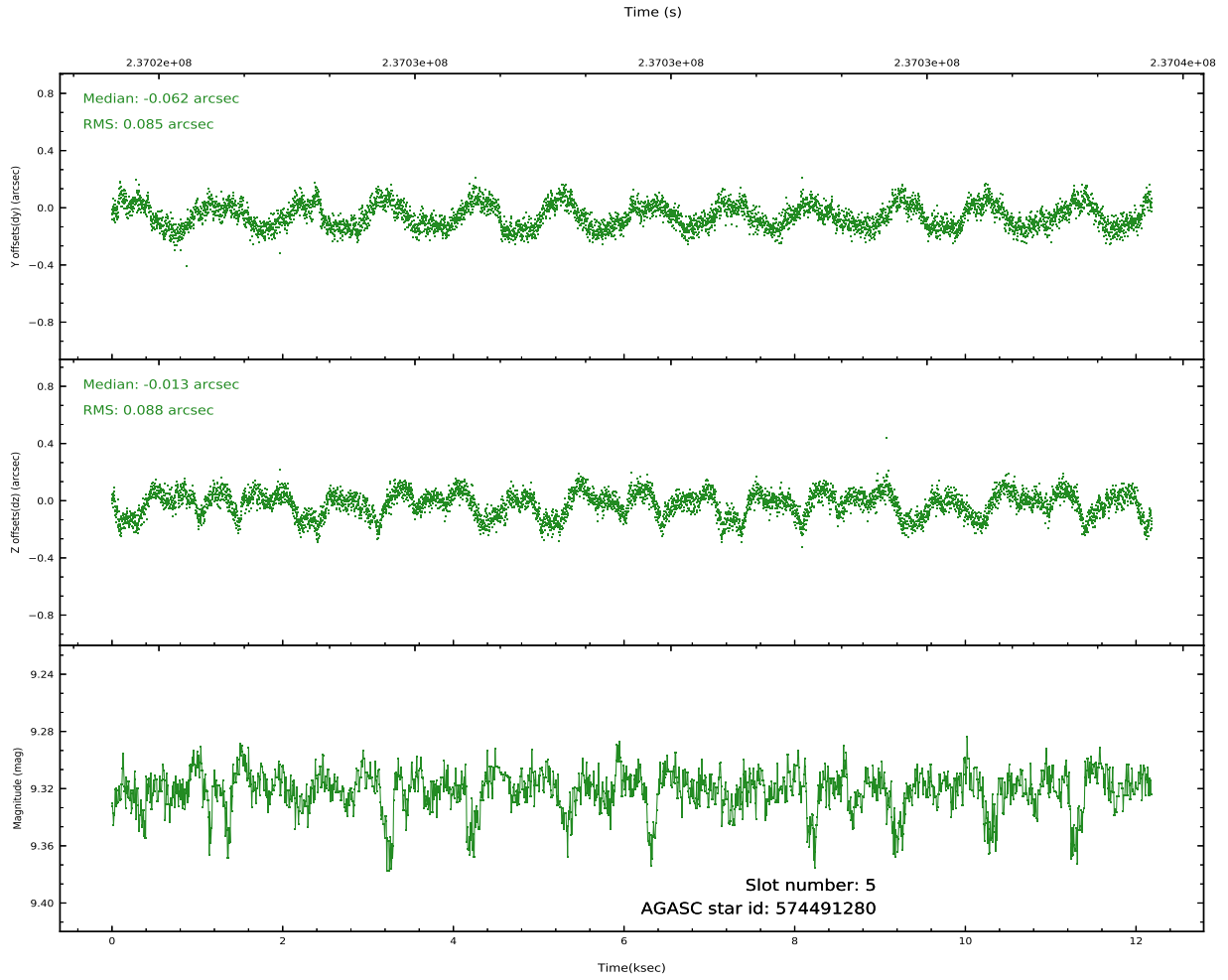
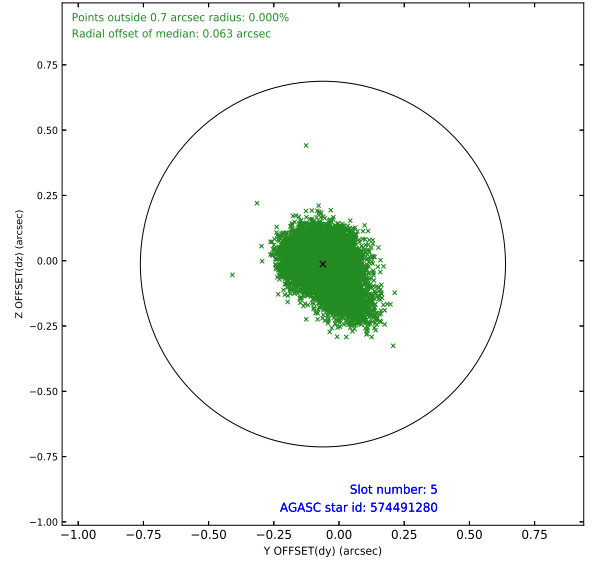
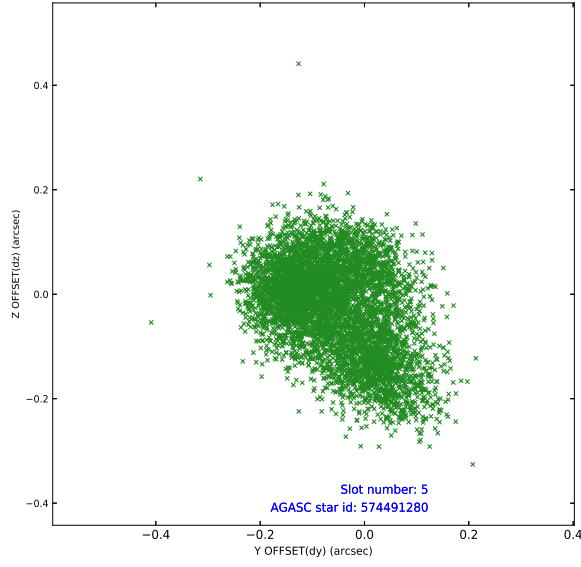
2.4.1 Slot 3



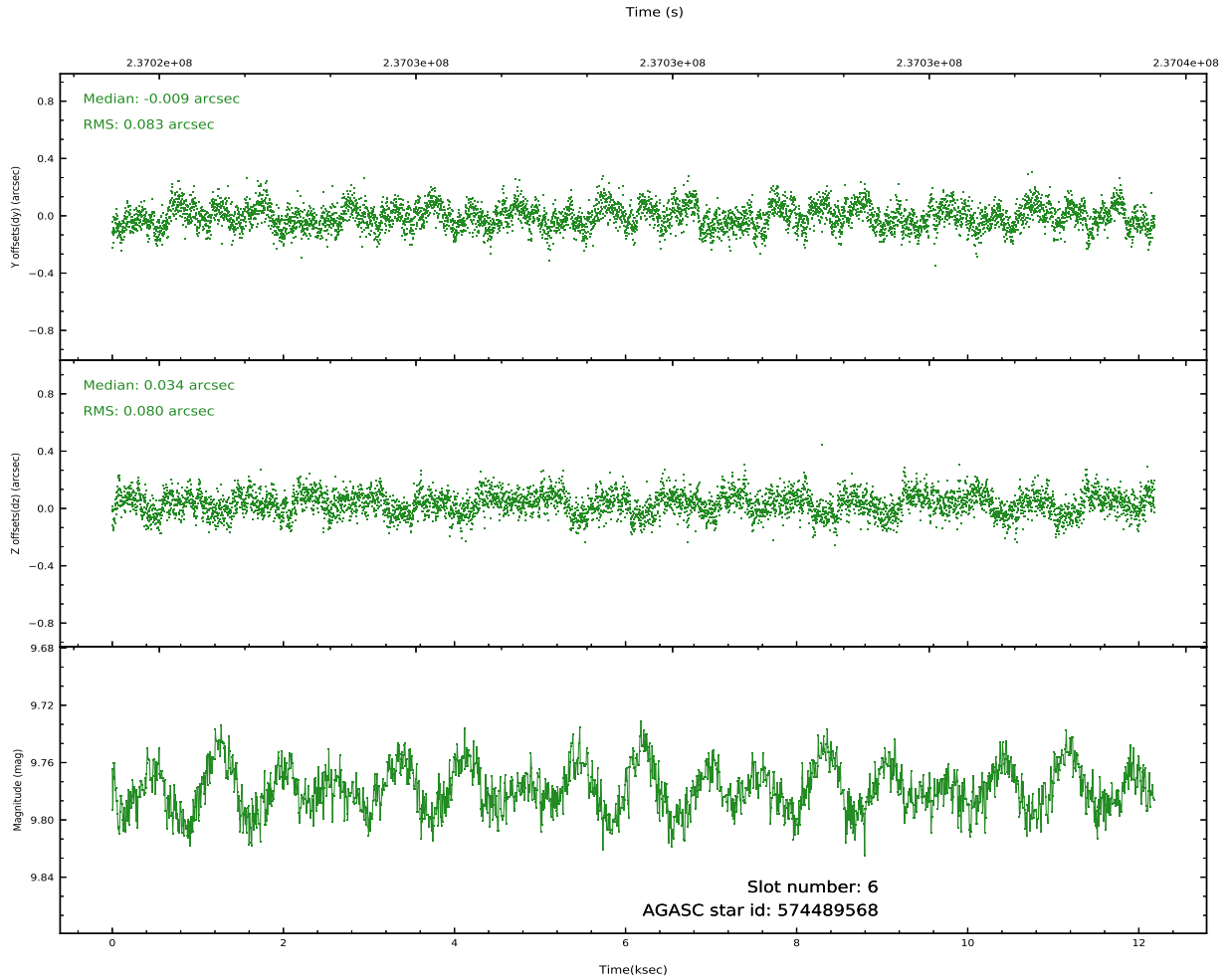
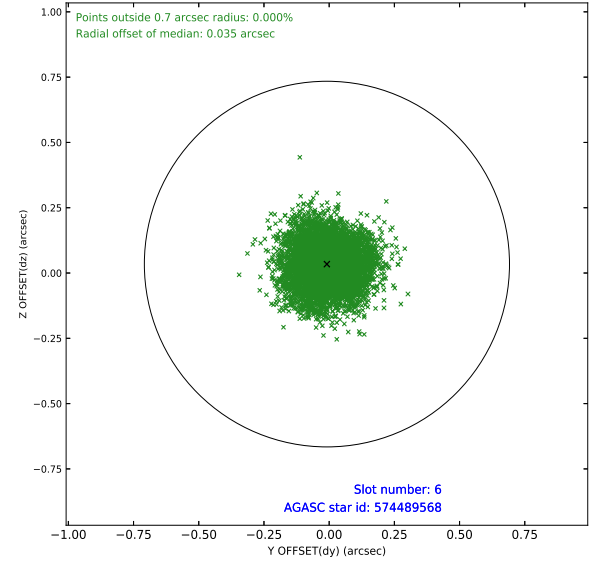
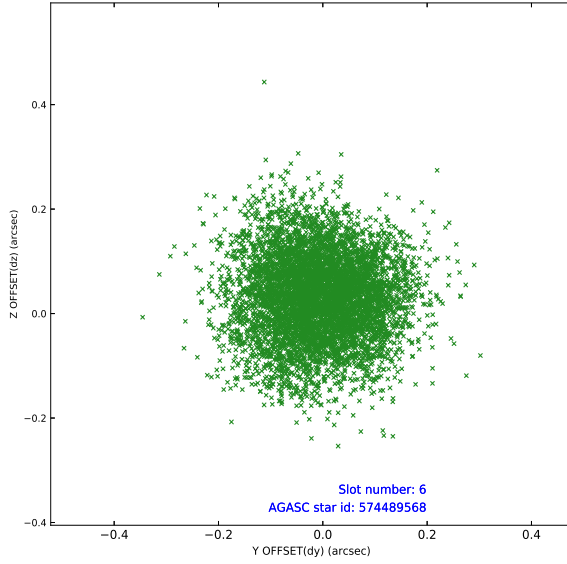
2.4.2 Slot 4



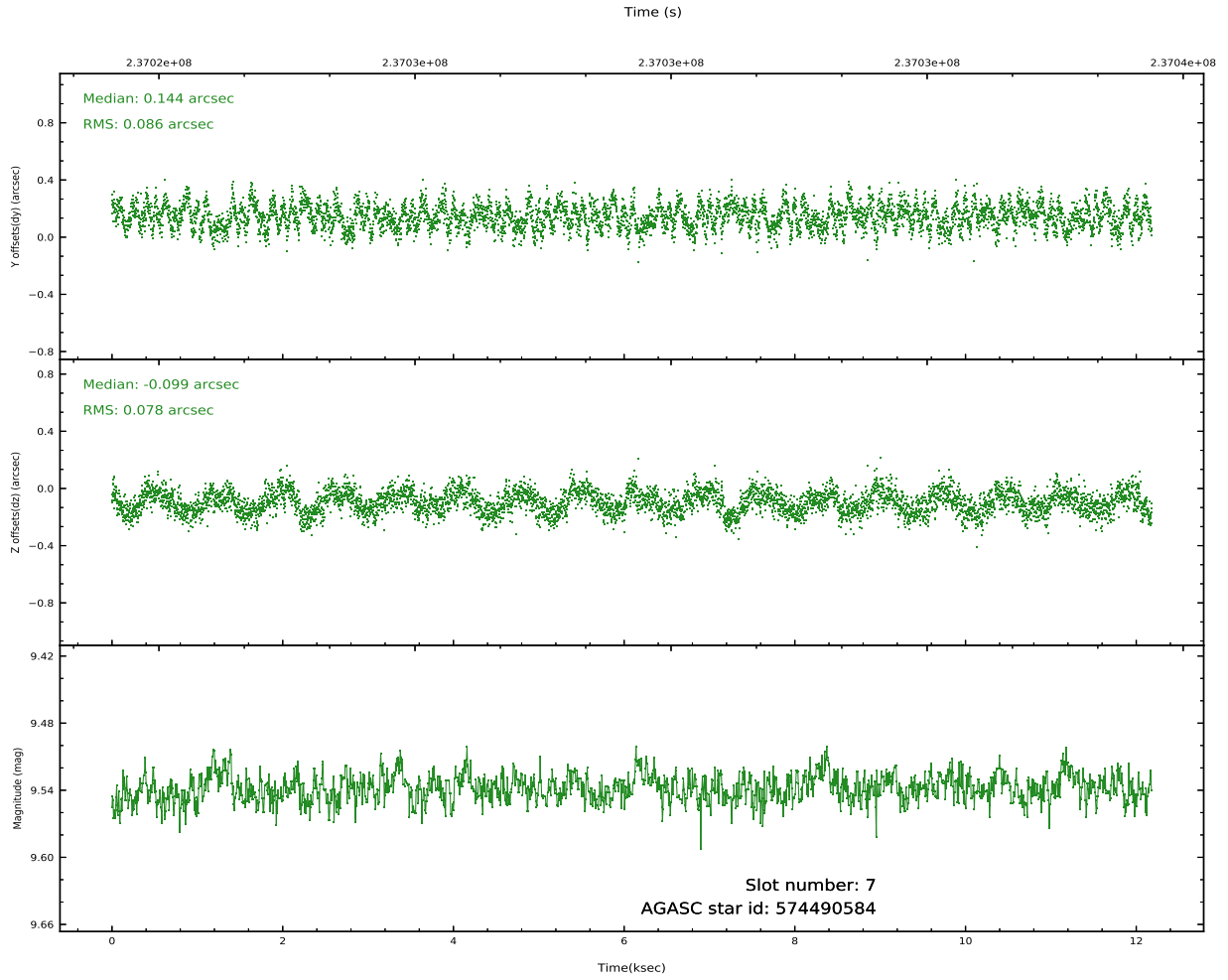
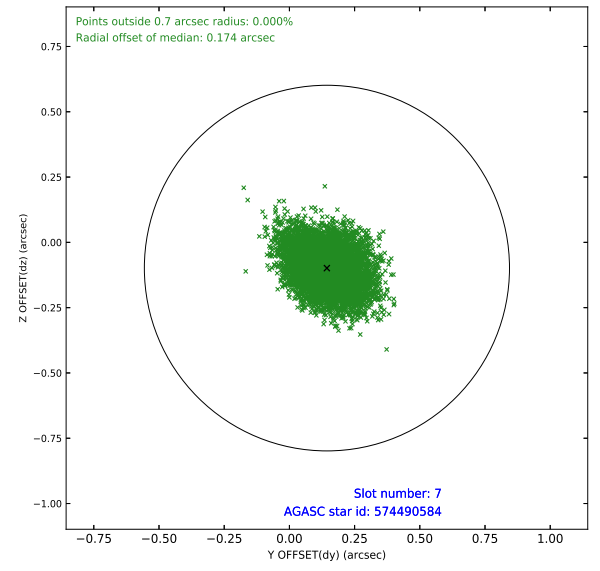
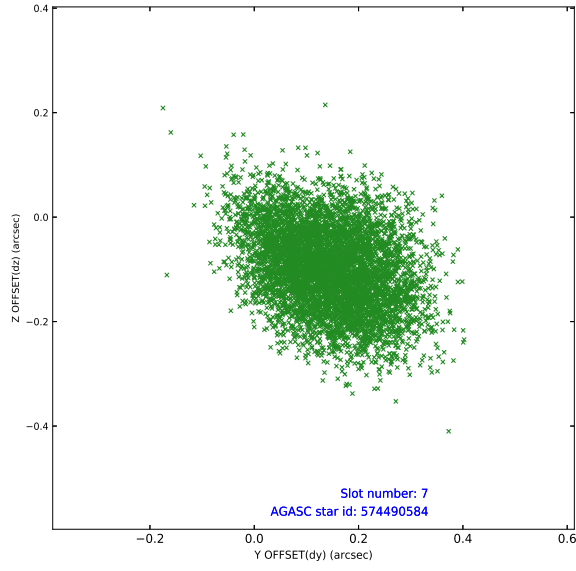
2.4.3 Slot 5



2.4.4 Slot 6

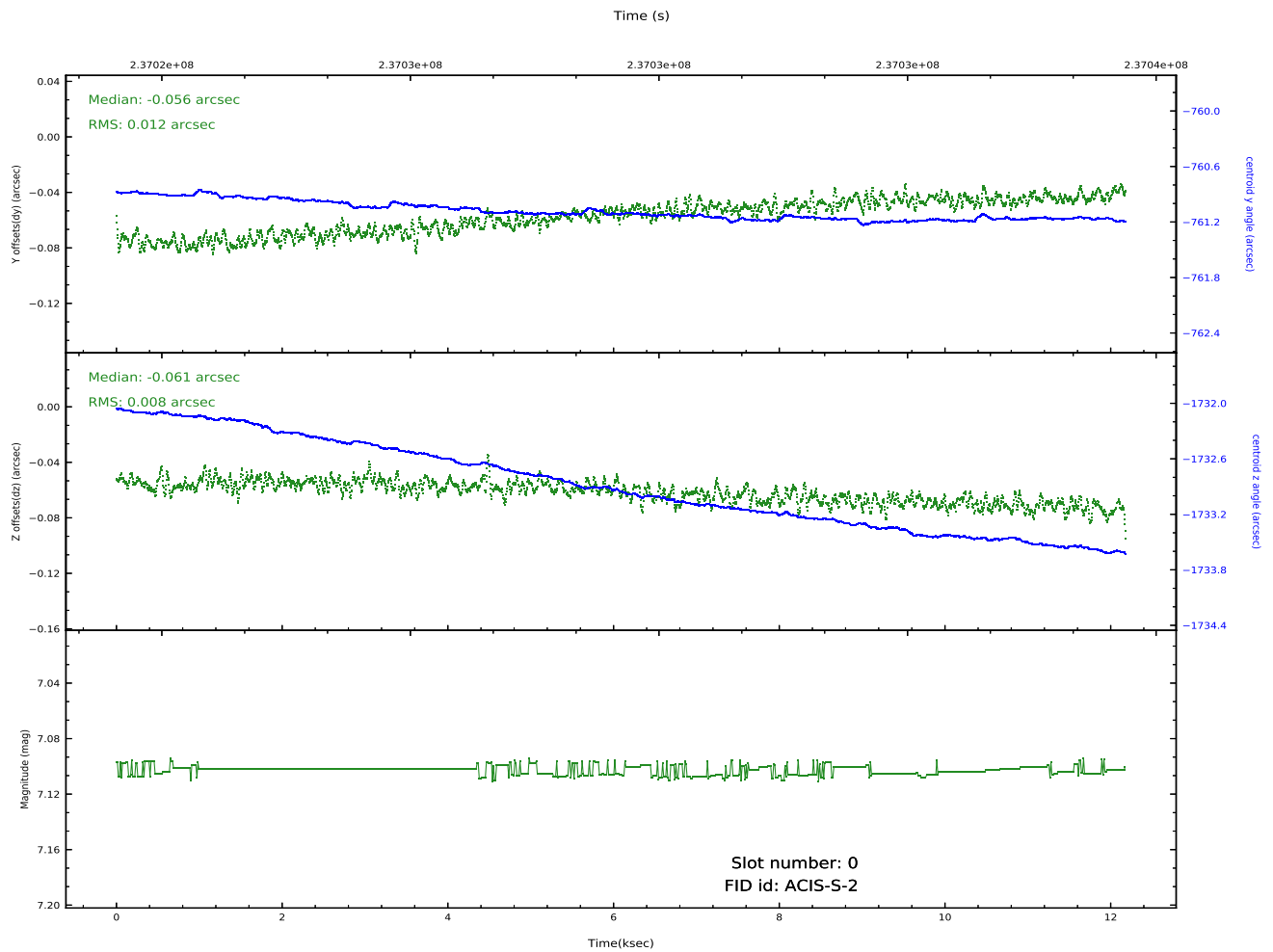
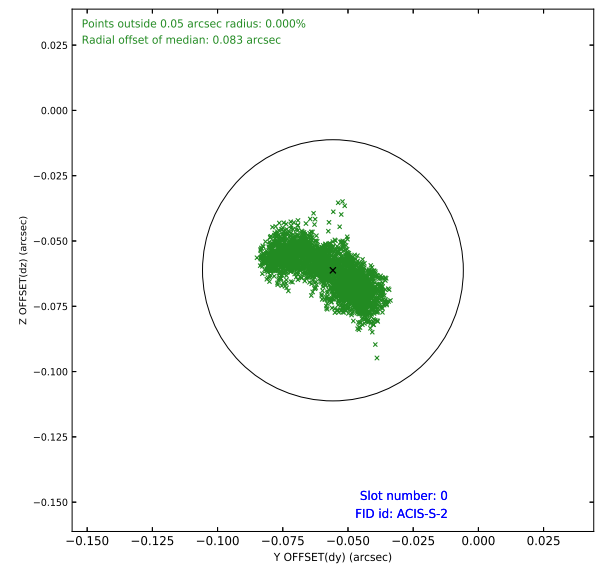
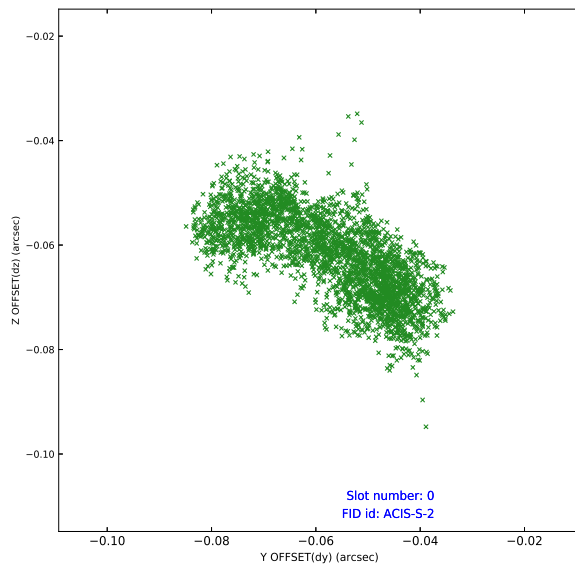


2.4.5 Slot 7

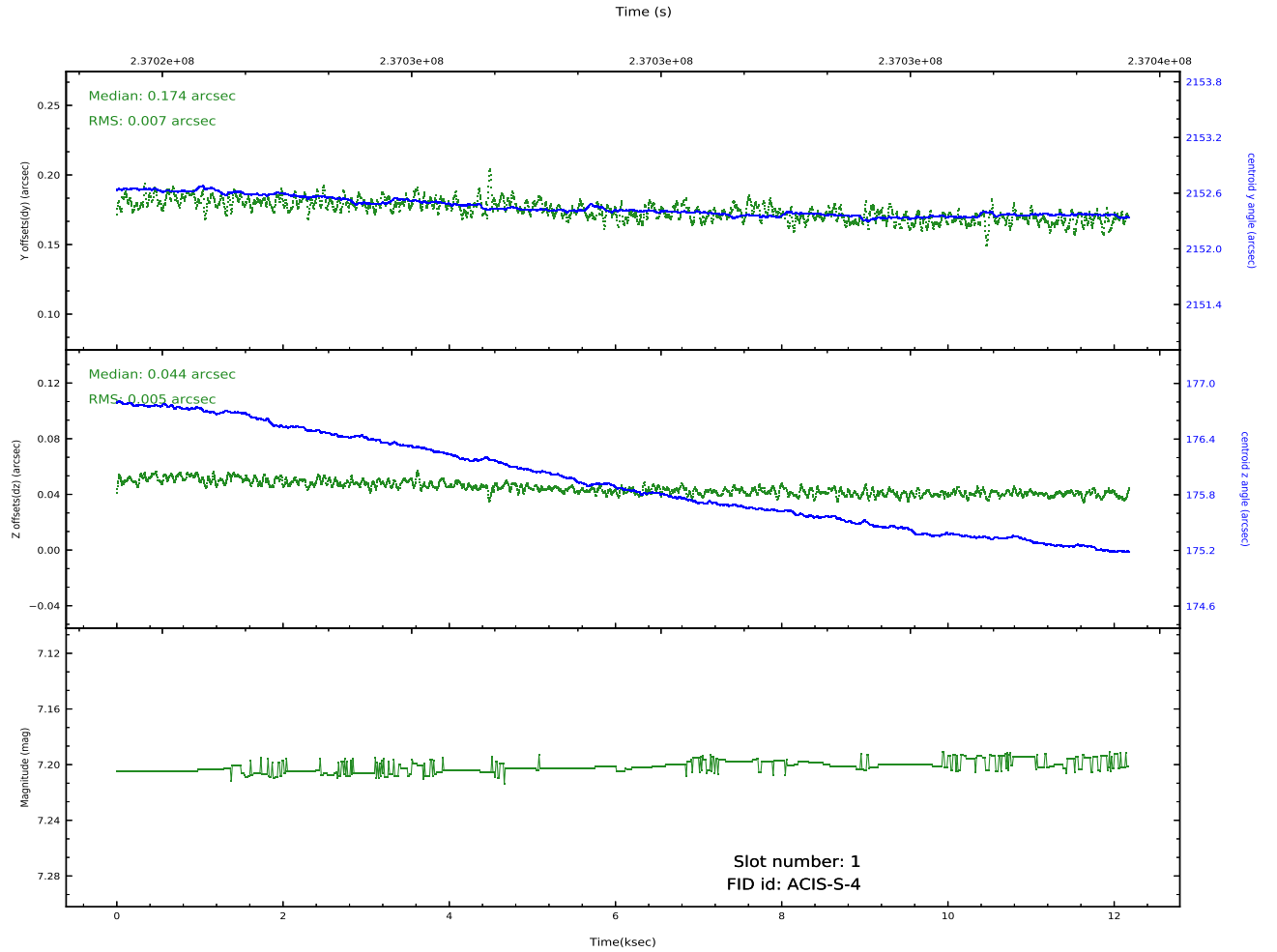
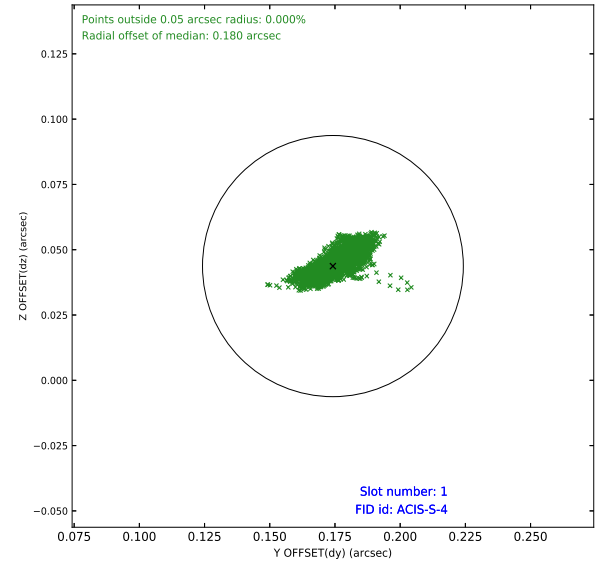
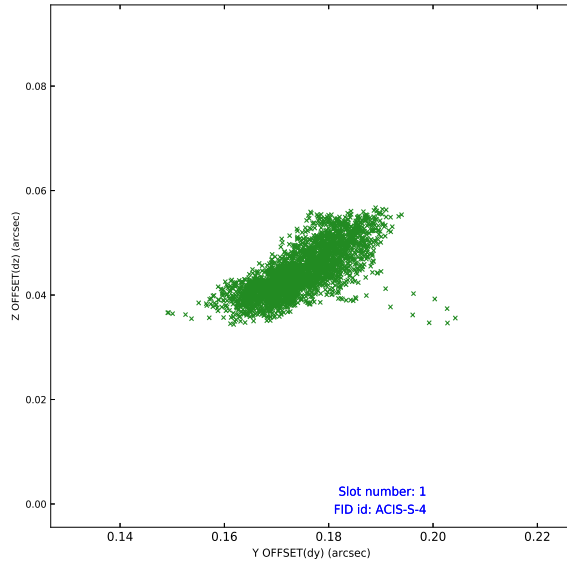


2.5 FID Slots

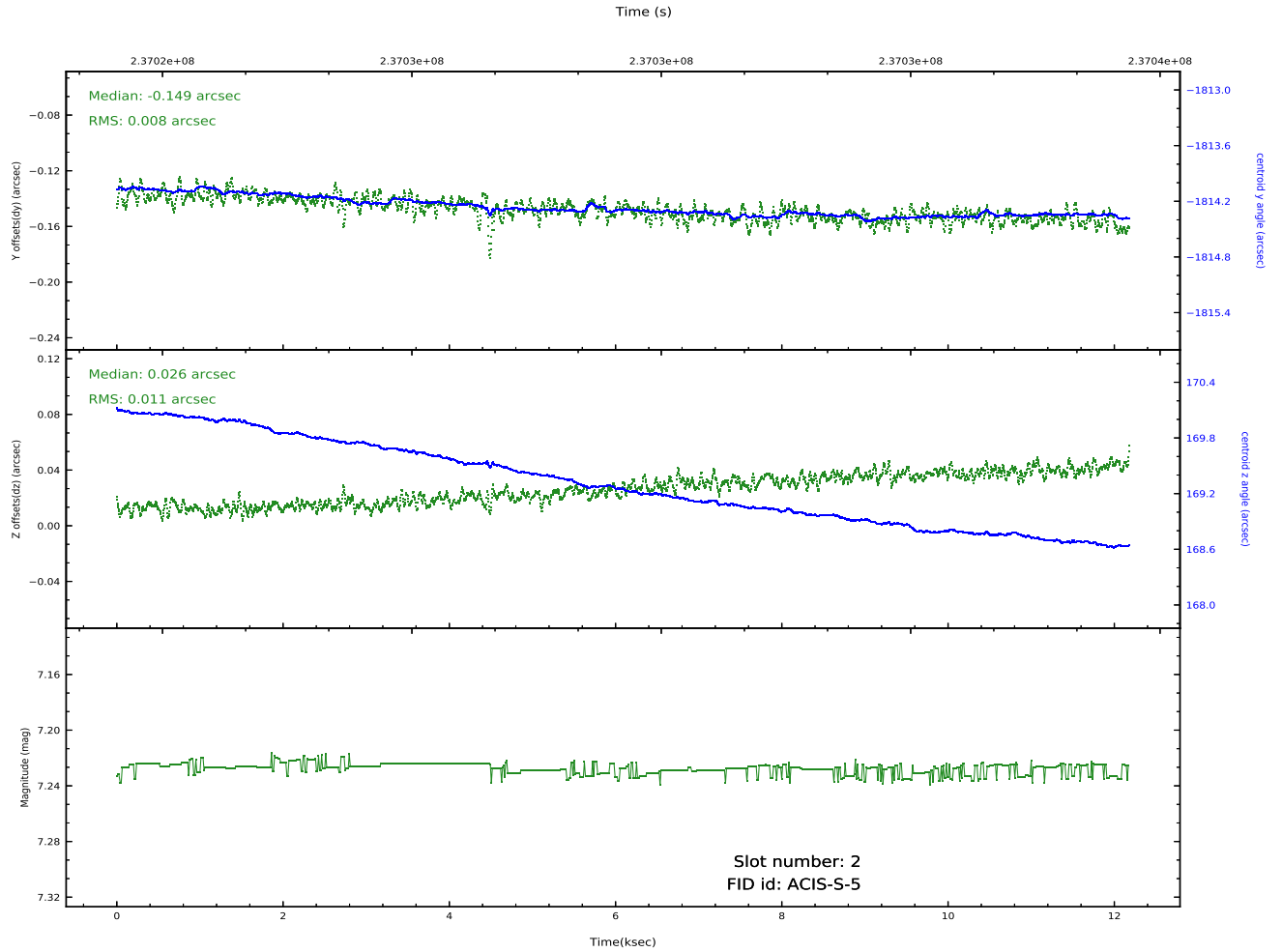
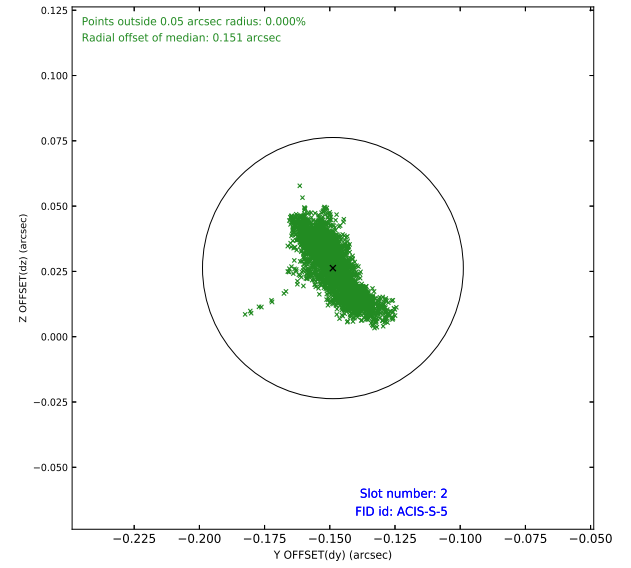
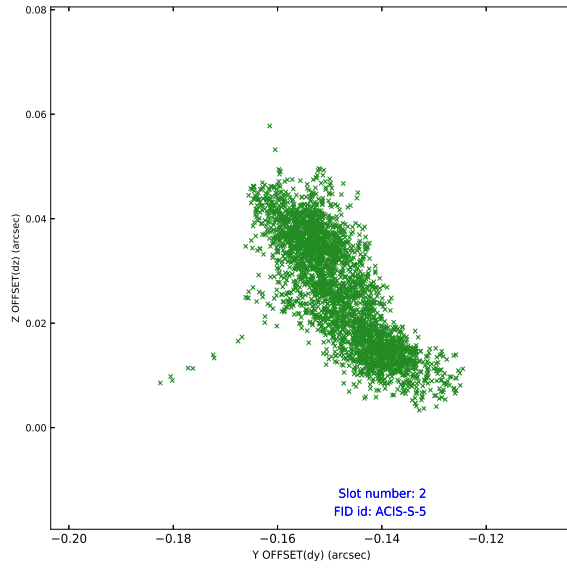
2.5.1 Slot 0



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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.17599

A.2 Comments