

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4470 - L2 Version 4
Chandra X-Ray Center

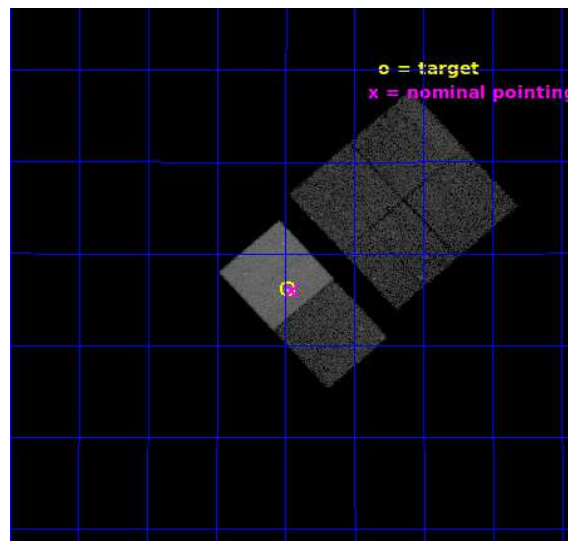
L2 Processing Date : Sep 26 2020

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1 Front

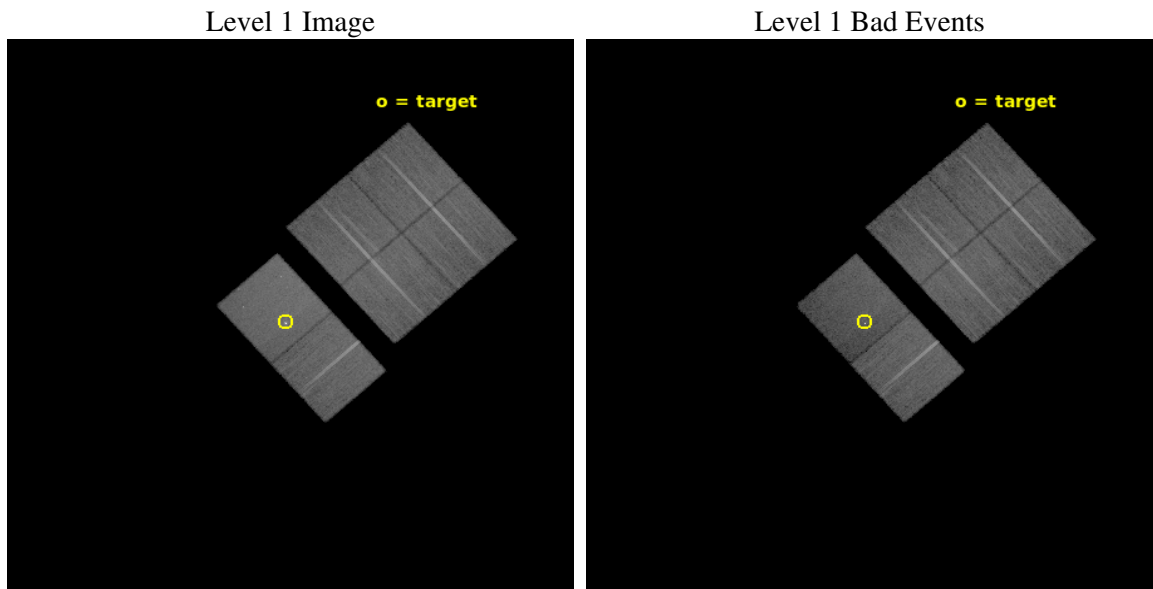
seq_num	200239	Sequence number
obs_id	4470	Observation id
title	AGE AND TEMPERATURE DEPENDENCE OF X-RAY ACTIVITY AT THE COOL END OF THE MAIN-SEQUENCE	Proposal title
observer	Beate Stelzer	Principal investigator
object	G1 569 BC	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	223.62225	Observer's specified target RA [deg]
dec_targ	16.102361	Observer's specified target Dec [deg]
ra_nom	223.61359203501	Nominal RA [deg]
dec_nom	16.099479485922	Nominal Dec [deg]
roll_nom	228.2449032115	Nominal Roll [deg]
revision	4	Processing version of data
ontime	25174.399906218	Sum of GTIs [s]
livetime	24855.626496402	Livetime [s]
ontime0	25171.158915937	Sum of GTIs [s]
ontime1	25167.917925745	Sum of GTIs [s]
ontime2	25167.917925775	Sum of GTIs [s]
ontime3	25174.399906218	Sum of GTIs [s]
ontime6	25174.399906218	Sum of GTIs [s]
ontime7	25174.399906218	Sum of GTIs [s]
l2events	148568	Number of level 2 events



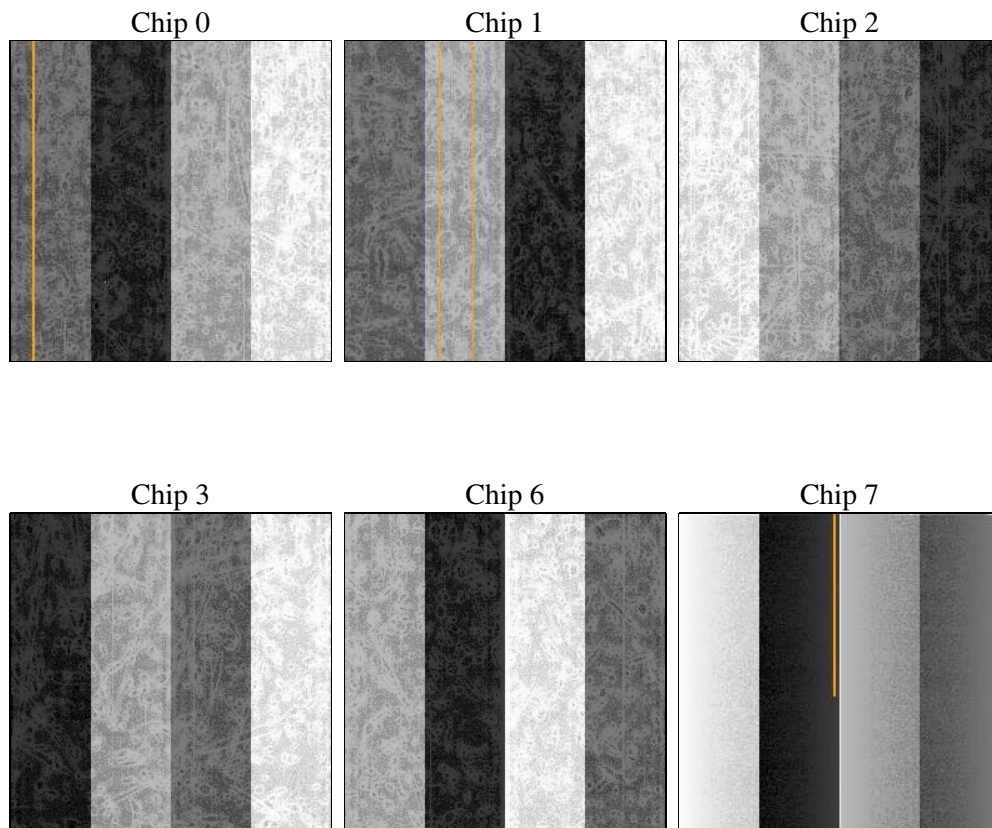
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	25174.399906218	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	25171.158915937	Sum of GTIs [s]
date	2020-09-26T19:54:17	Date and time of file creation	ontime1	25167.917925745	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	25167.917925775	Sum of GTIs [s]
			ontime3	25174.399906218	Sum of GTIs [s]
			ontime6	25174.399906218	Sum of GTIs [s]
			ontime7	25174.399906218	Sum of GTIs [s]
			l1events	954024	Number of level 1 events

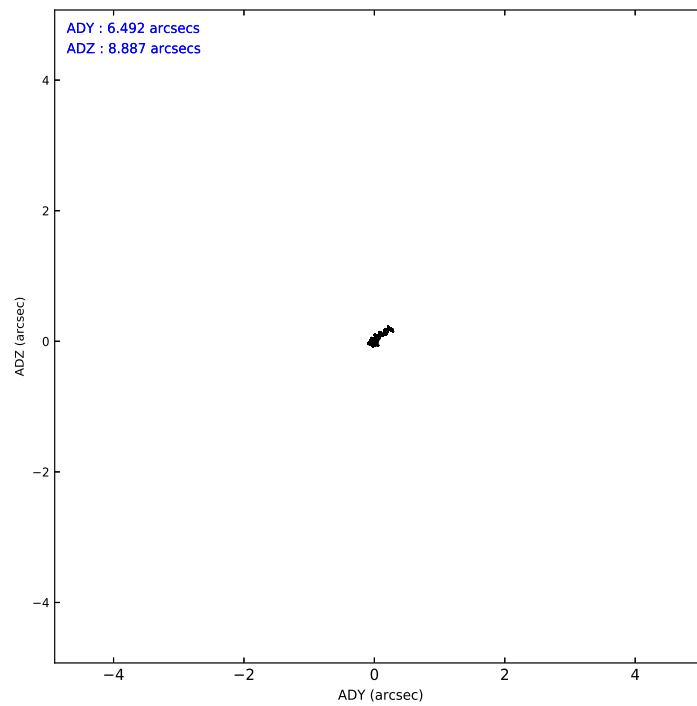
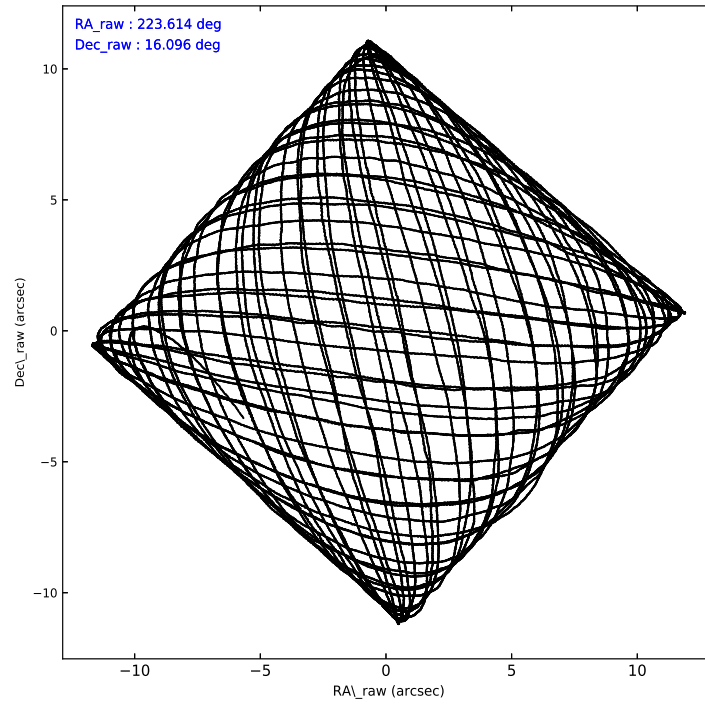
2.1.4 Events

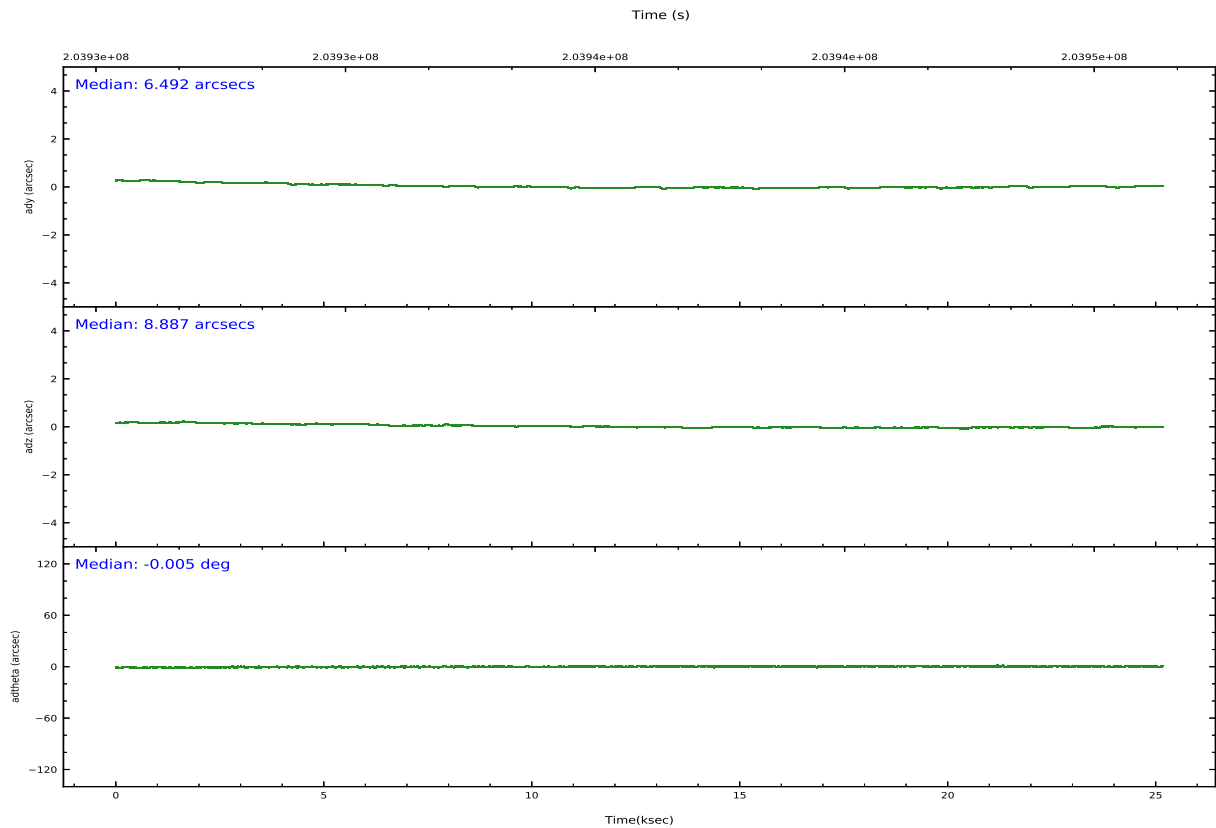
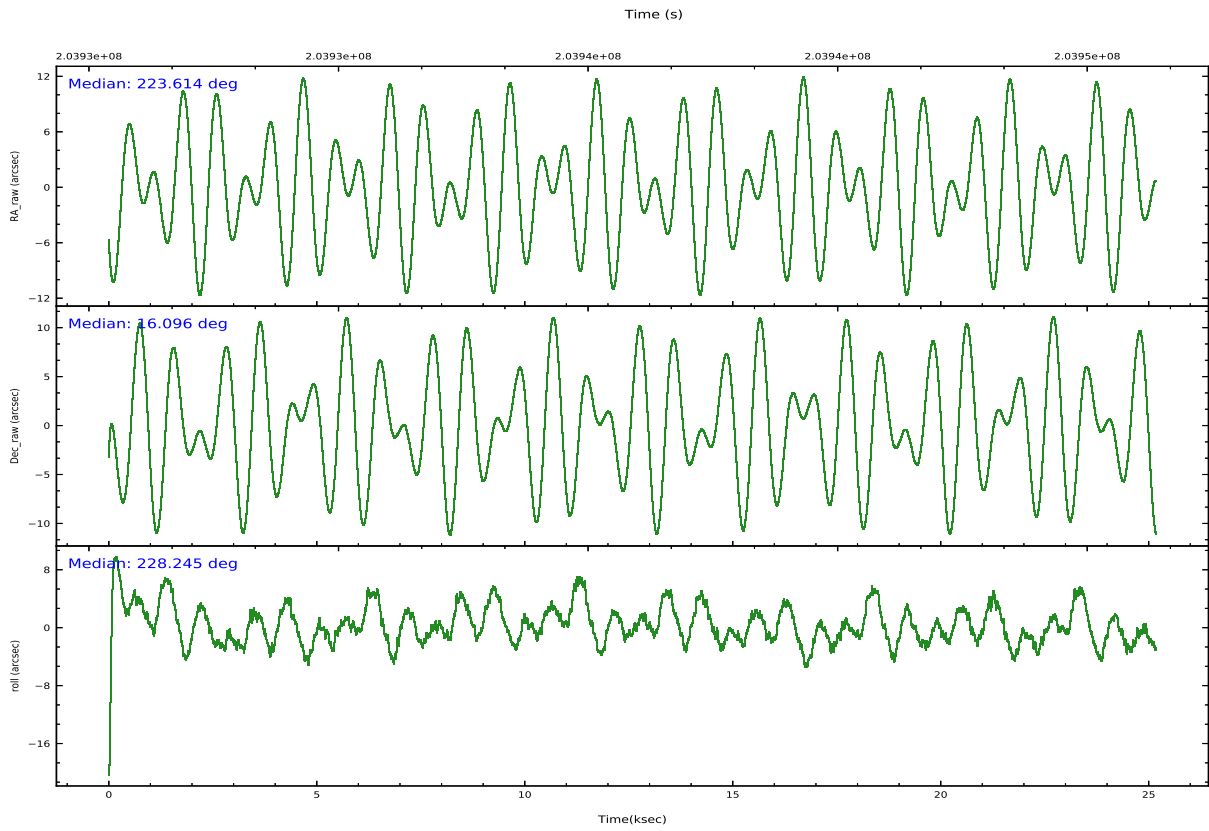
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	151139	143847	164871	149741	159435	184991	grade 0 events	5206	6277	5473	5813	5964	9795
rejected events	135723	126796	149810	134868	143047	98626		3%	4%	3%	3%	3%	5%
rejected %	89%	88%	90%	90%	89%	53%	grade 1 events	60	60	71	86	66	423
								0%	0%	0%	0%	0%	0%
							grade 2 events	3687	3583	3614	2965	3461	17495
								2%	2%	2%	1%	2%	9%
							grade 3 events	1781	1973	1589	1623	1813	8267
								1%	1%	0%	1%	1%	4%
							grade 4 events	1609	1884	1662	1636	1723	8055
								1%	1%	1%	1%	1%	4%
							grade 5 events	5818	5707	4996	6038	6223	19357
								3%	3%	3%	4%	3%	10%
							grade 6 events	3139	3343	2730	2839	3432	42798
								2%	2%	1%	1%	2%	23%
							grade 7 events	129839	121020	144736	128741	136753	78801
								85%	84%	87%	85%	85%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	223.619733	223.61359203501	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.123125	16.099479485922	Alternating exposures requested	N	N
[deg] Pointing Roll	228.081335	228.2449032115	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	203926657.184000	203925584.34015			
Observation start date	2004-06-18T06:16:33	2004-06-18T05:59:44			
[s] Observation end time (MET)	203951657.184000	203952038.05382			
Observation end date	2004-06-18T13:13:13	2004-06-18T13:20:38			
Read mode	TIMED	TIMED			

2.3 Aspect



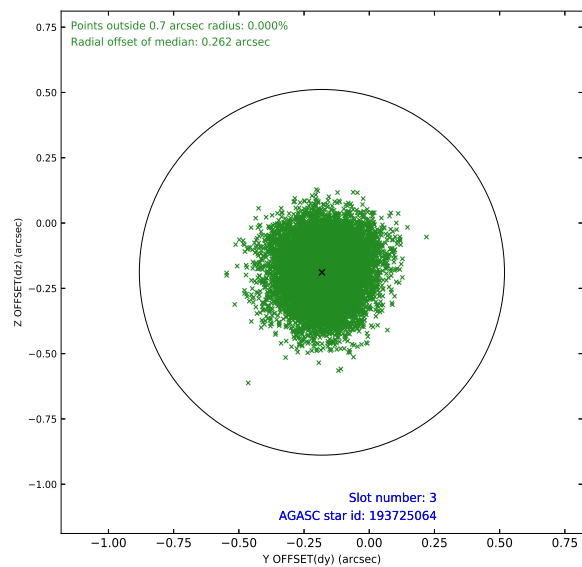
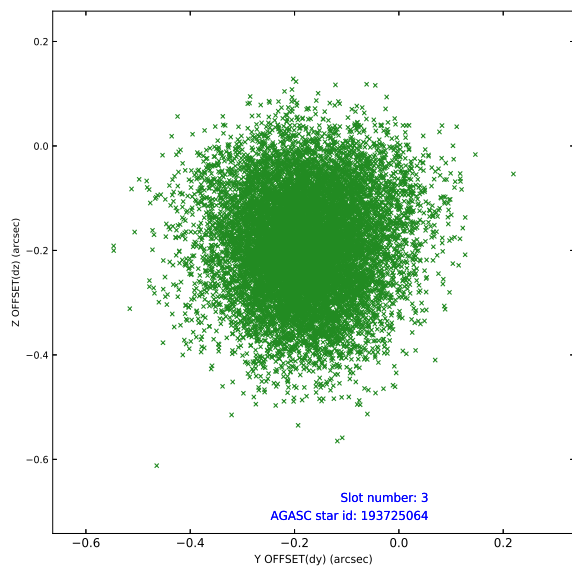


Slot Statistics

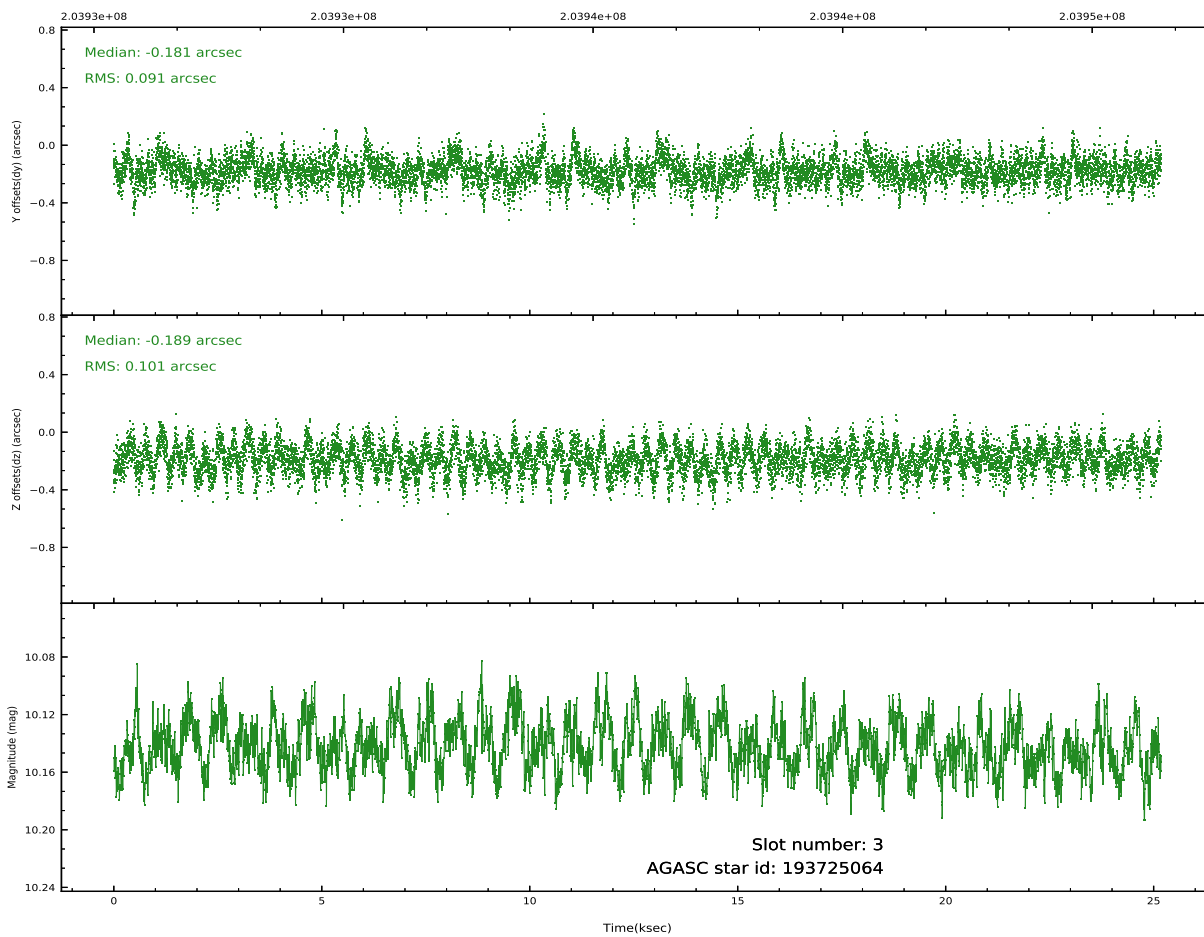
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	6142	1.000	-0.068	-0.076	0.007	0.012	0.000000	0.000000	-759.31	-1730
1	FID		ACIS-S-4	7.21	6142	1.000	0.131	0.053	0.006	0.011	0.000000	0.000000	2154.09	178
2	FID		ACIS-S-5	7.23	6142	1.000	-0.094	0.031	0.007	0.012	0.000000	0.000000	-1812.05	172
3	GUIDE	used	193725064	10.14	12265	1.000	-0.181	-0.189	0.145	0.236	223.634645	16.731472	-1664.24	-1424
4	GUIDE	used	193727816	8.28	12271	1.000	0.020	-0.004	0.060	0.097	223.575128	15.529957	1692.30	1311
5	GUIDE	used	193730968	7.51	12284	1.000	0.113	0.047	0.064	0.103	223.708209	15.325320	1932.12	2147
6	GUIDE	used	194644072	9.77	12272	1.000	-0.130	-0.046	0.131	0.207	224.201328	16.328954	-1895.90	998
7	GUIDE	used	193729184	9.74	12244	1.000	0.178	0.182	0.148	0.227	223.790929	15.316789	1762.79	2381

2.4 Star Slots

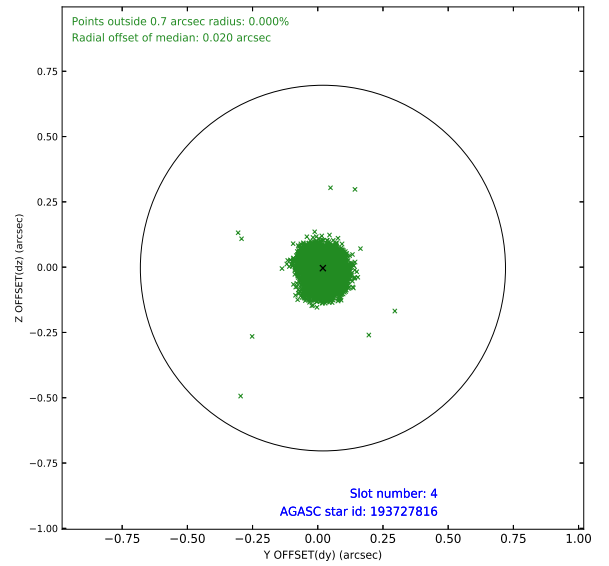
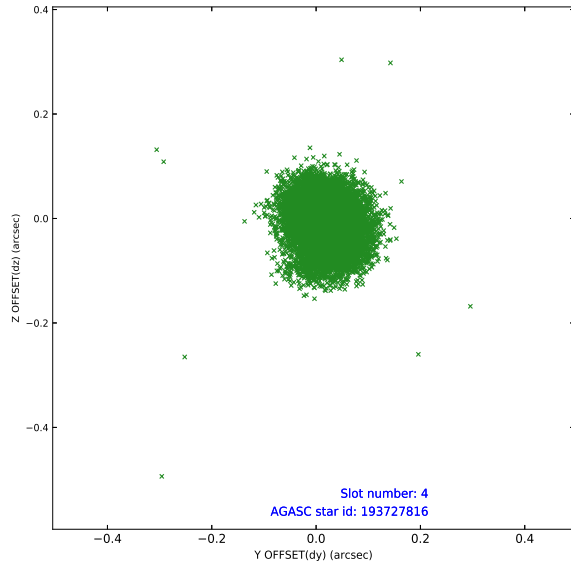
2.4.1 Slot 3



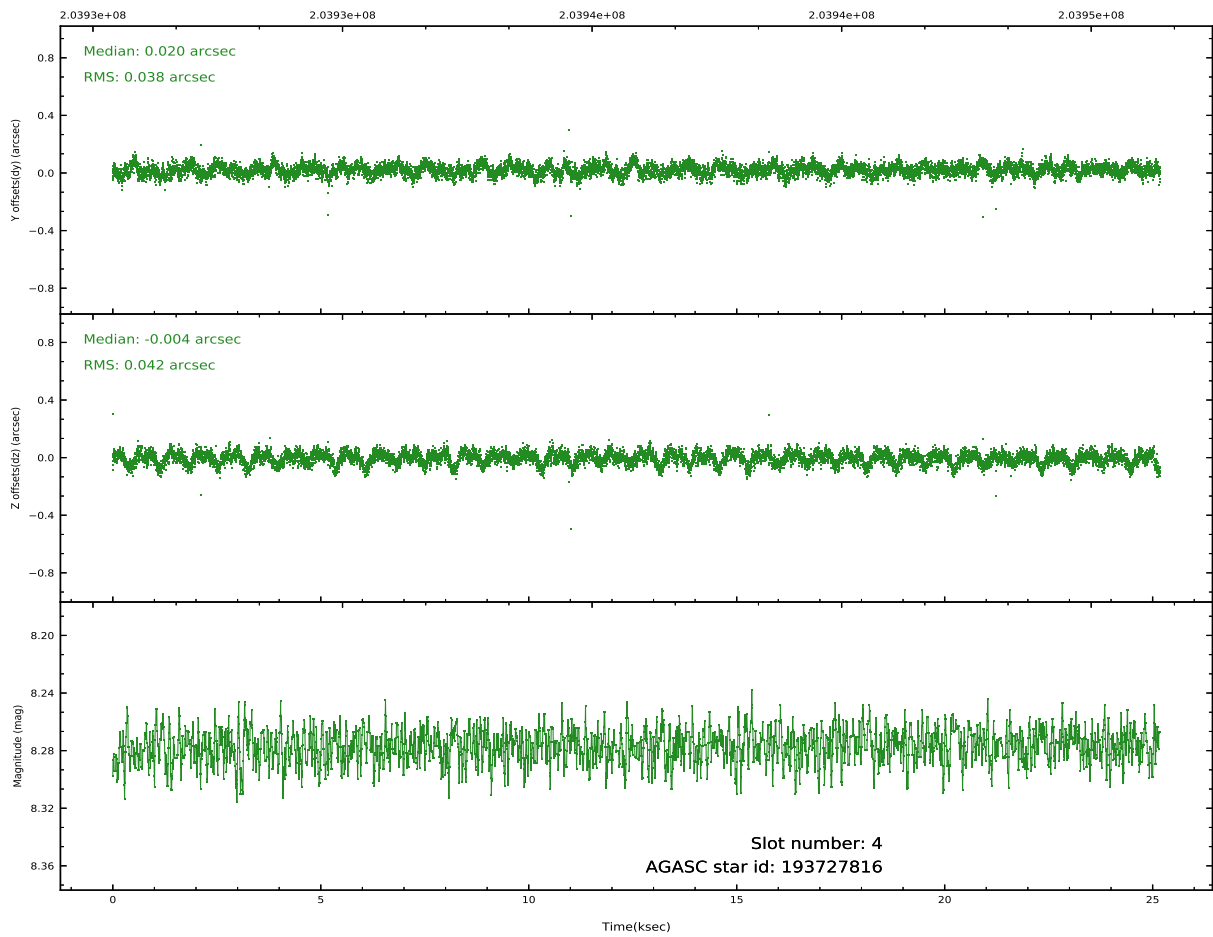
Time (s)



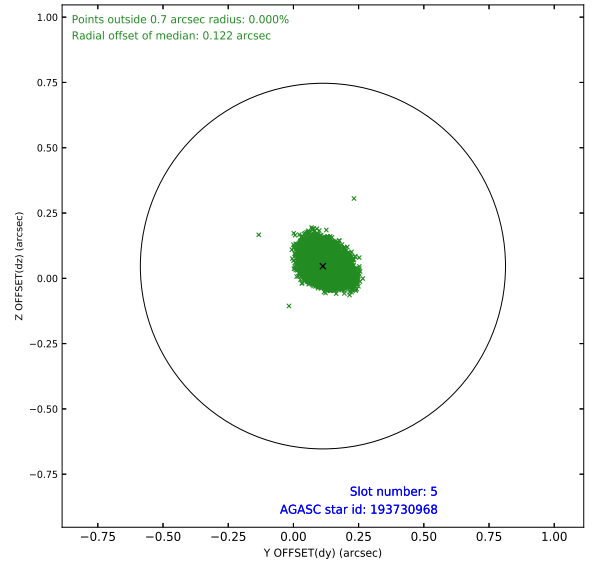
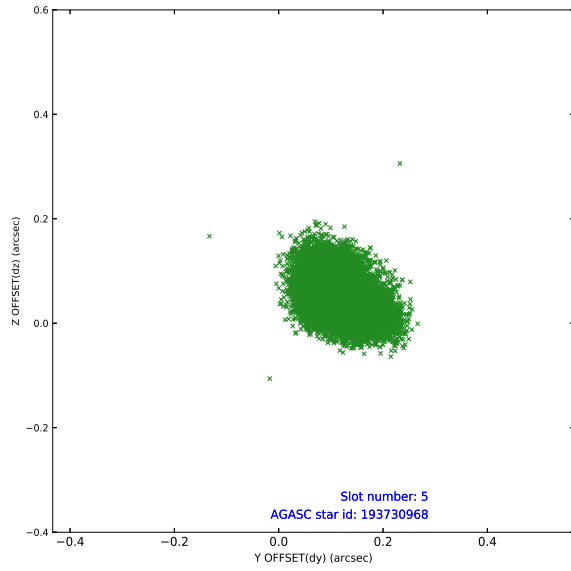
2.4.2 Slot 4



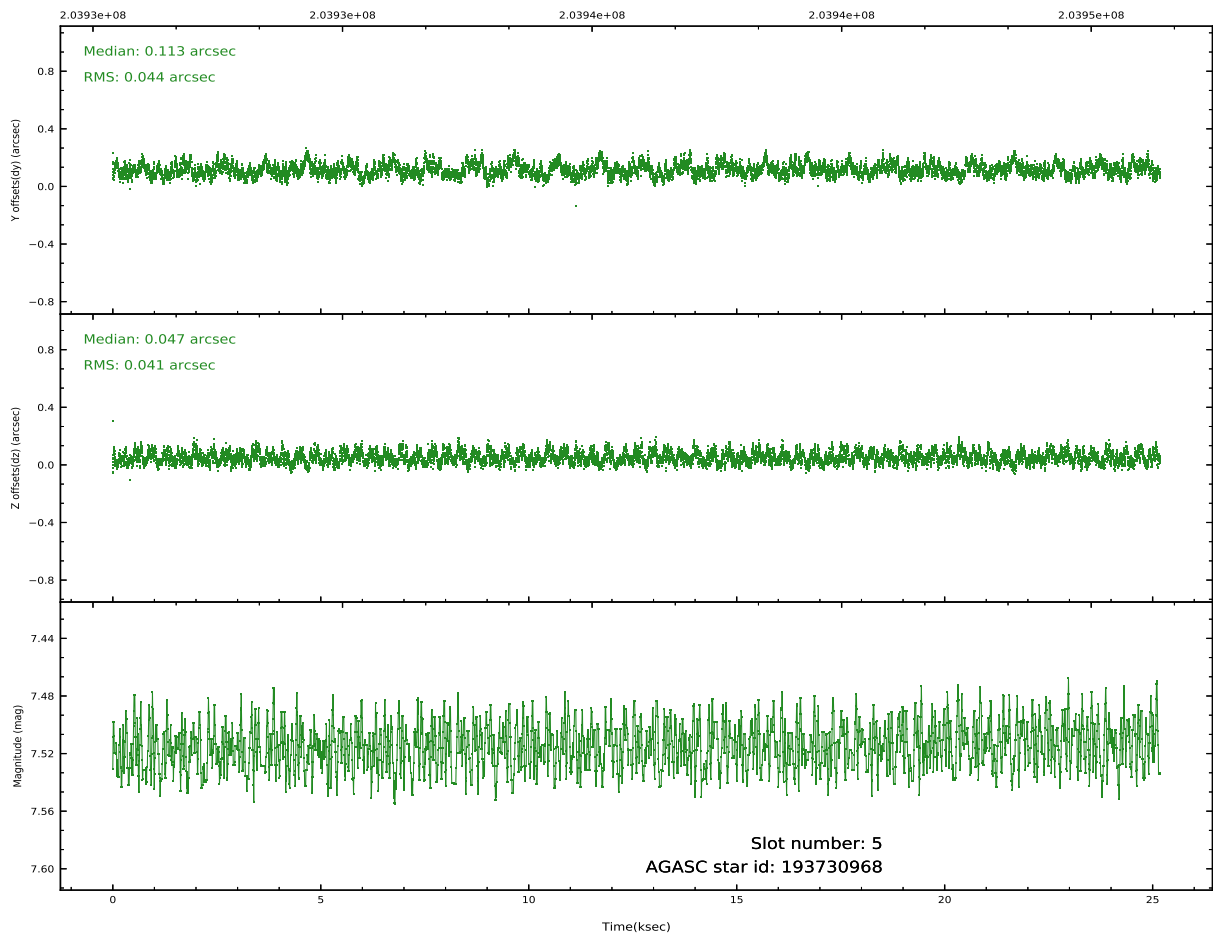
Time (s)



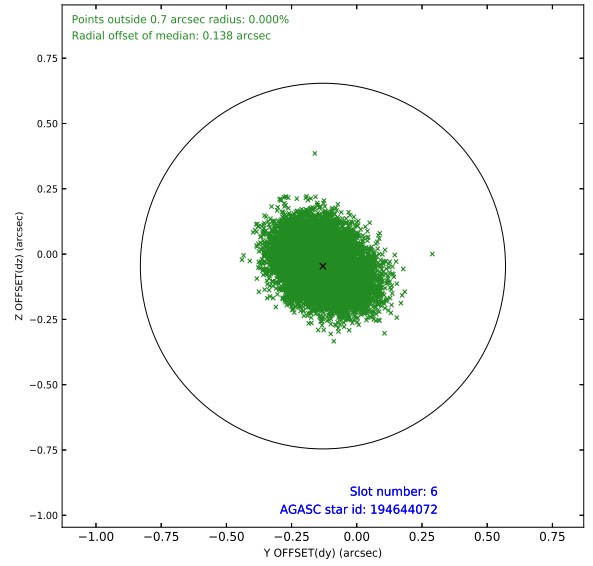
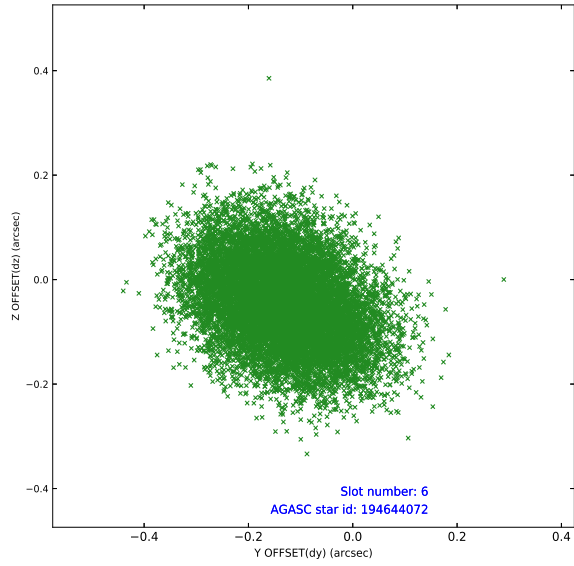
2.4.3 Slot 5



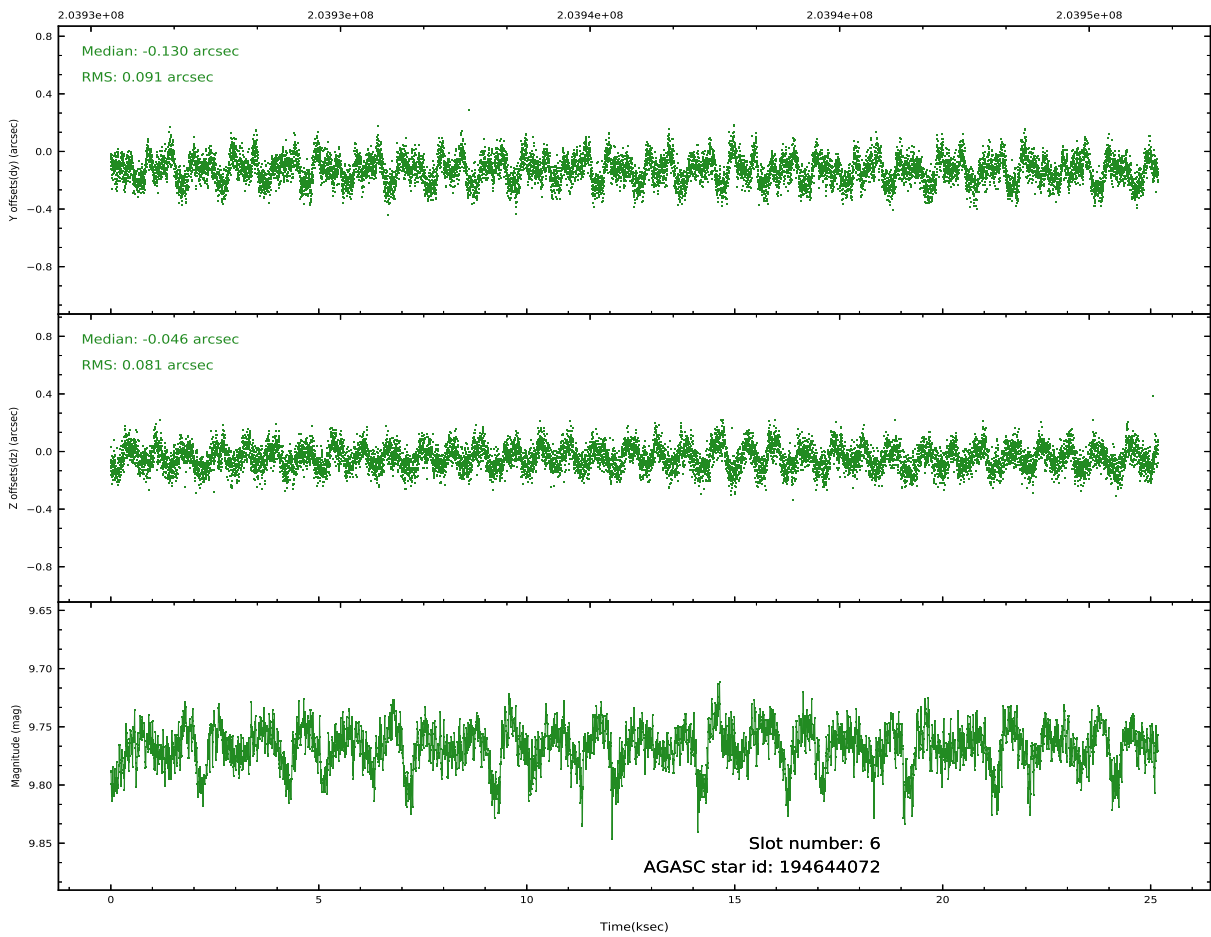
Time (s)



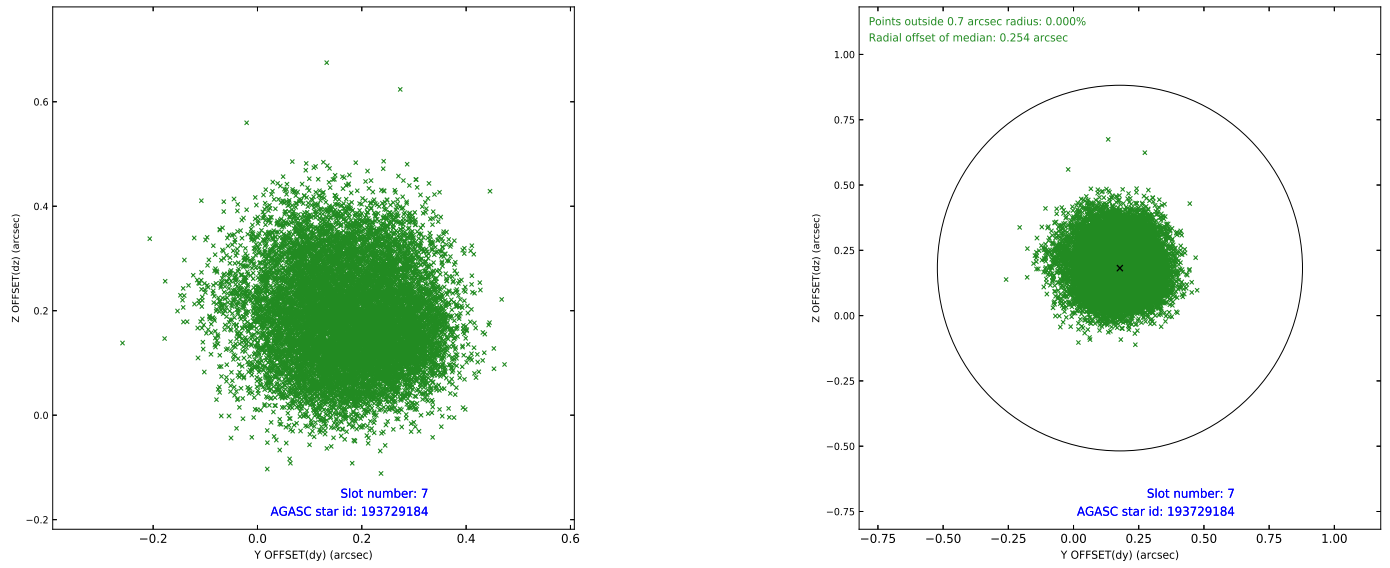
2.4.4 Slot 6



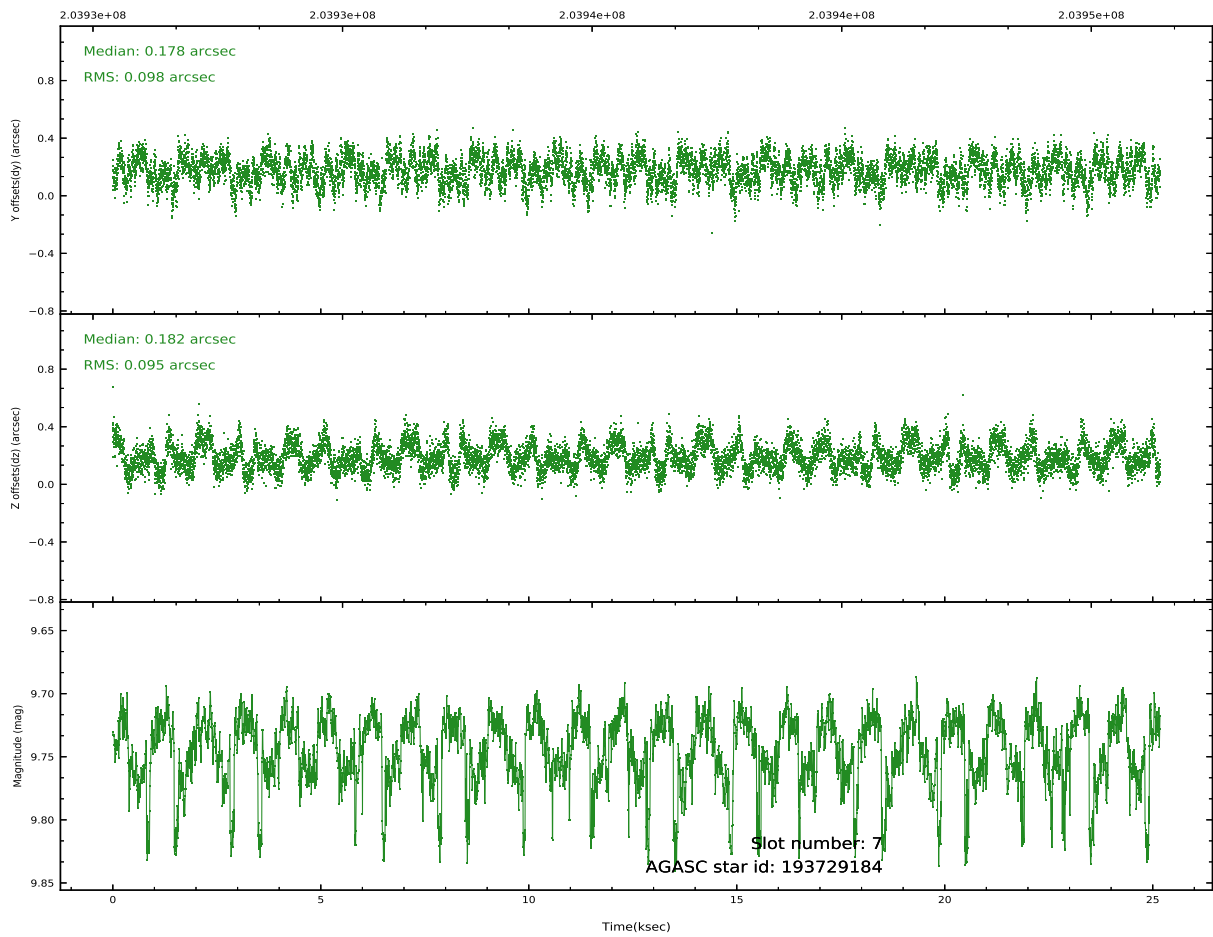
Time (s)



2.4.5 Slot 7

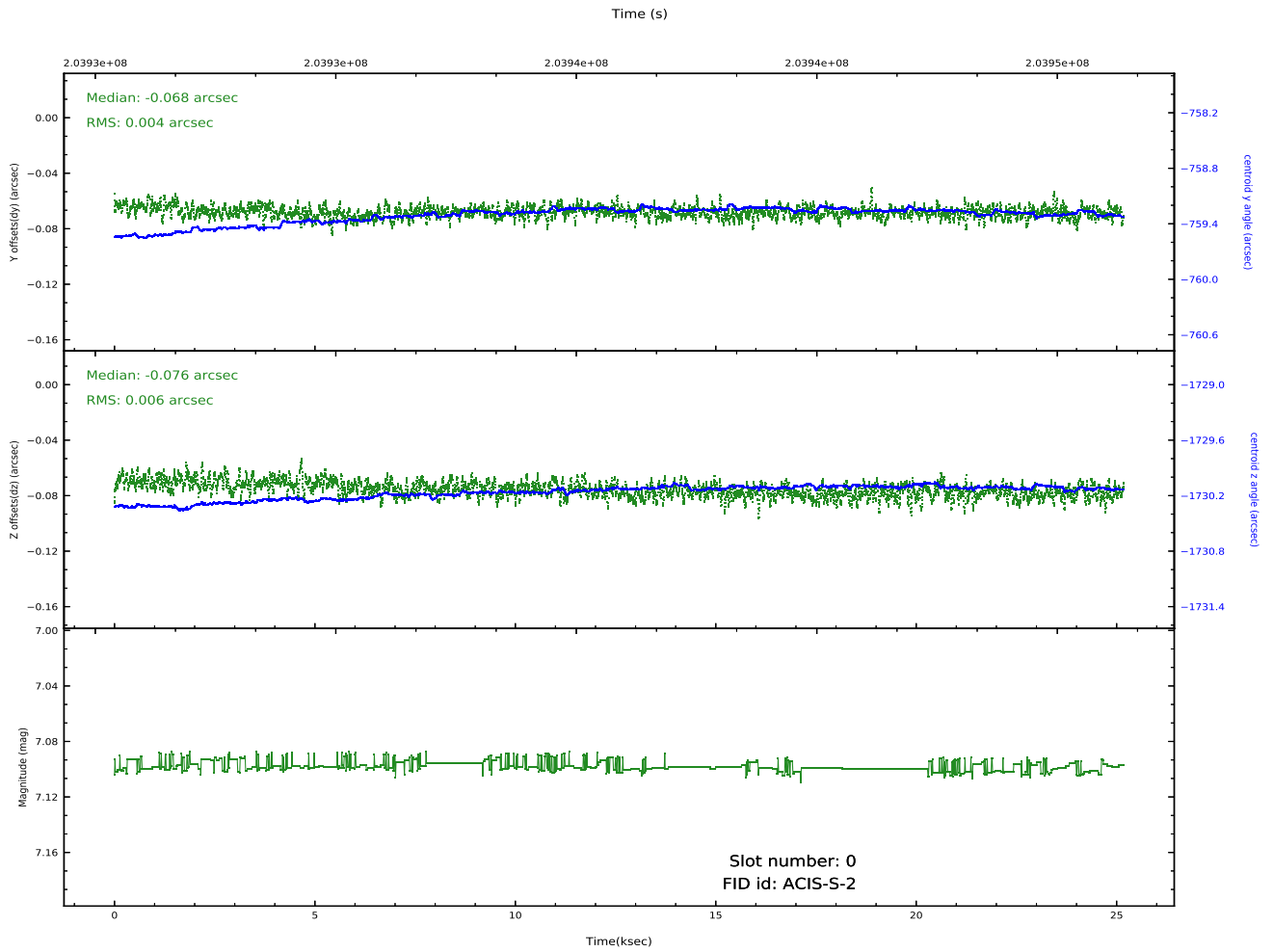
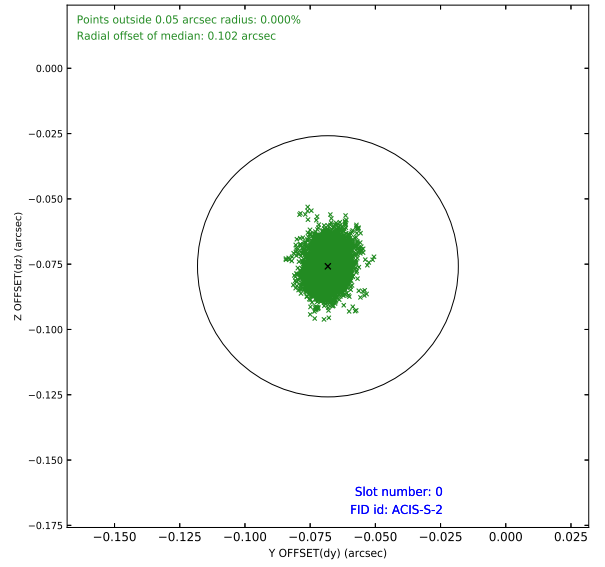
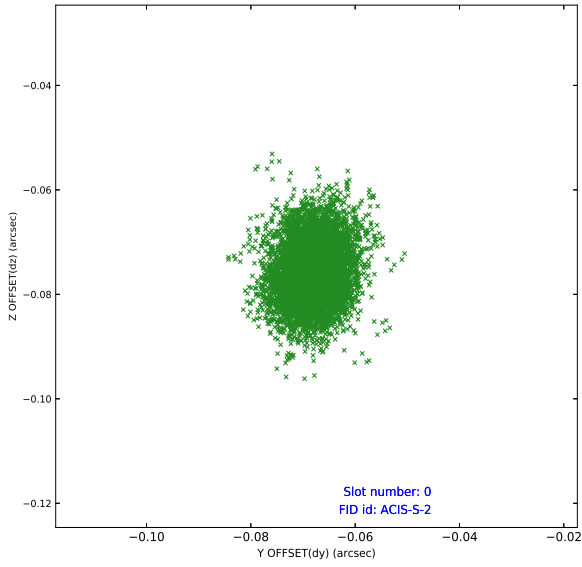


Time (s)

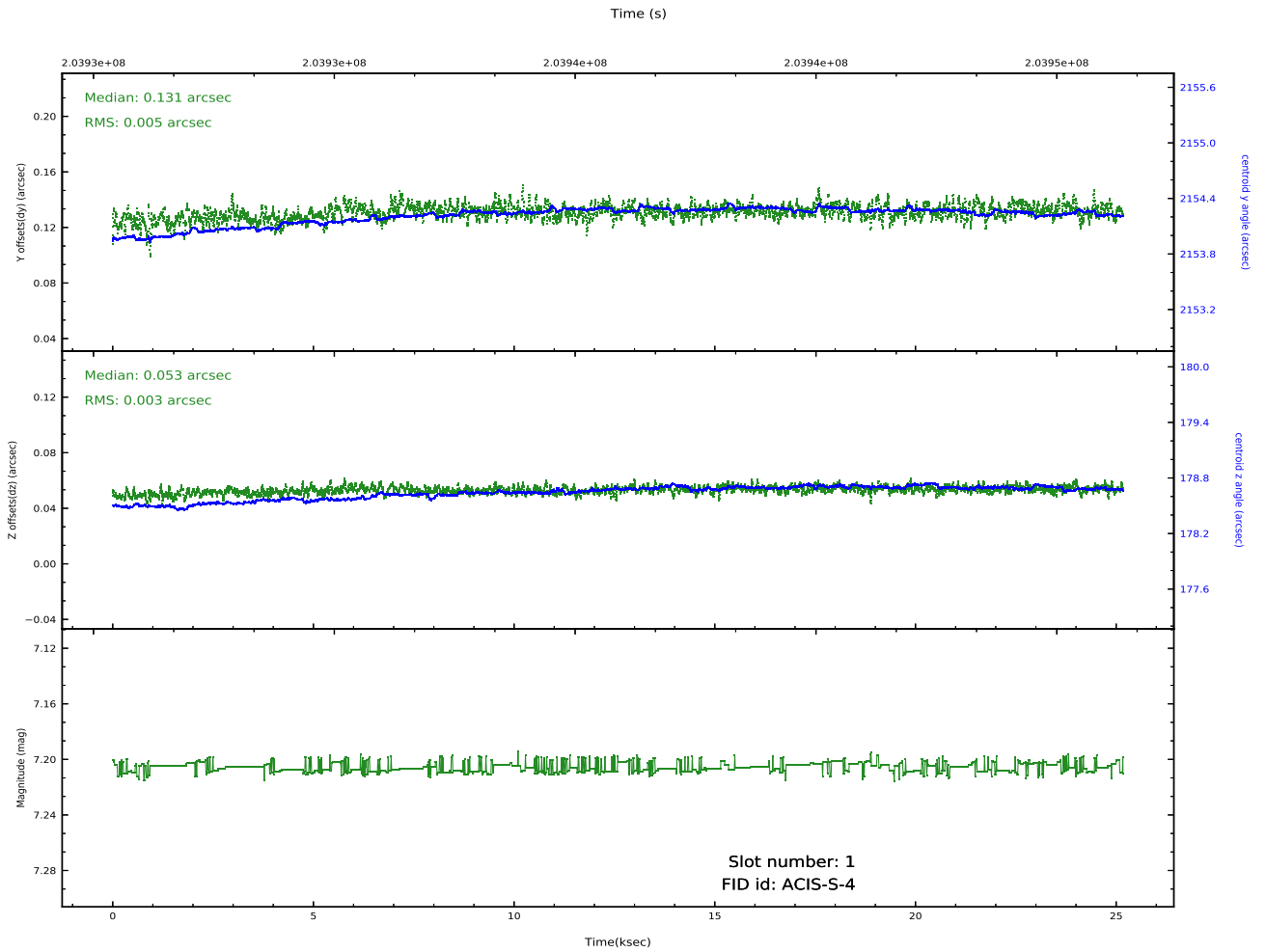
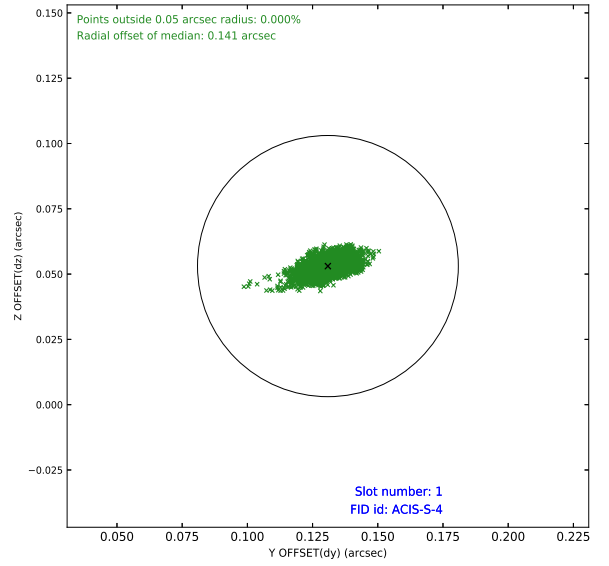
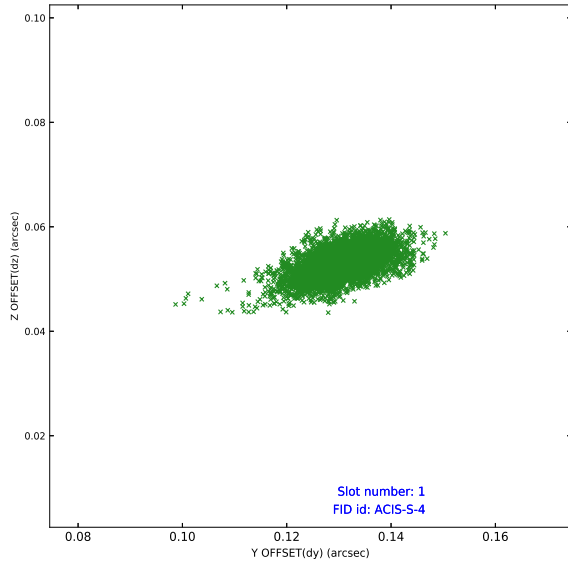


2.5 FID Slots

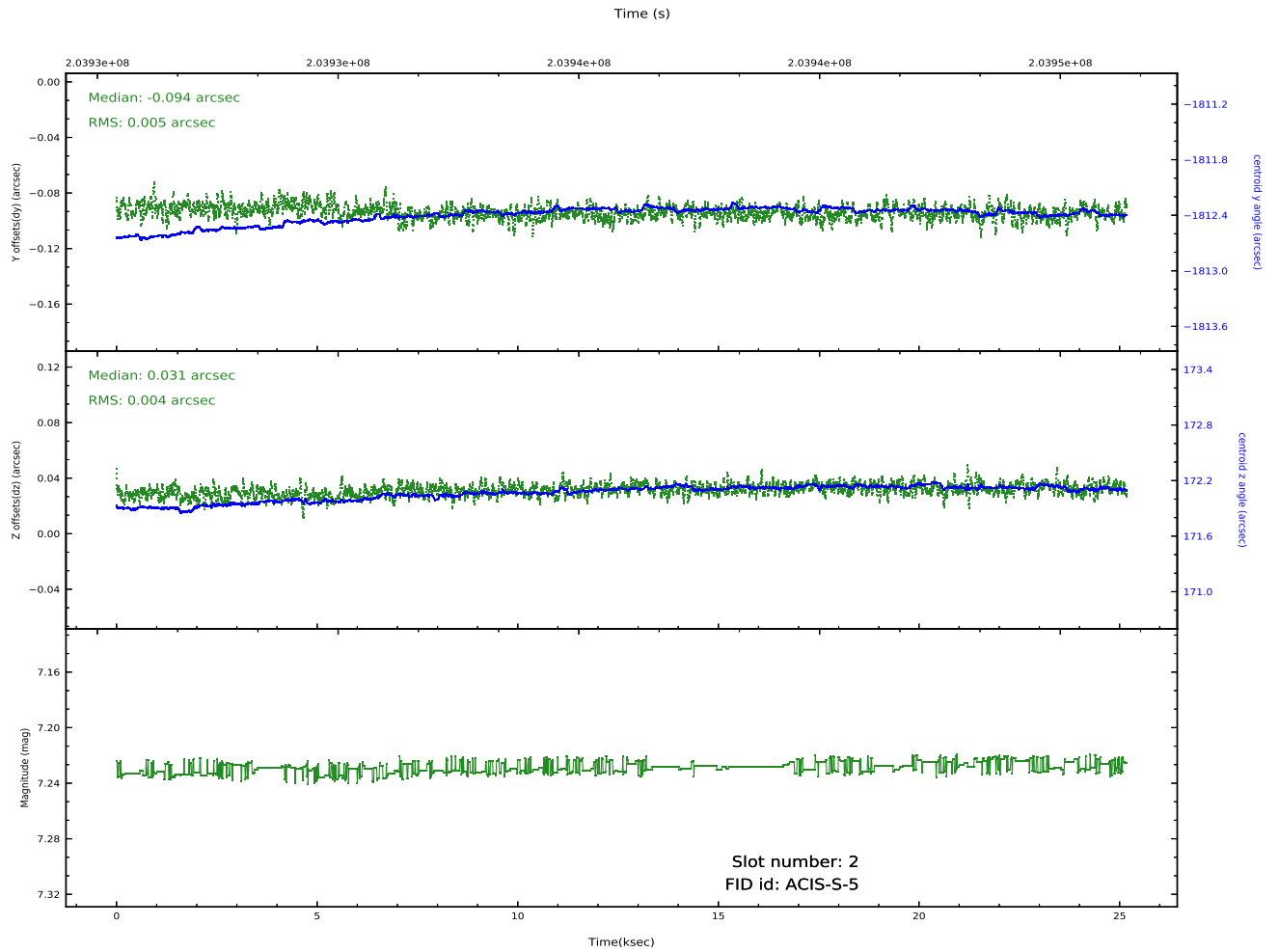
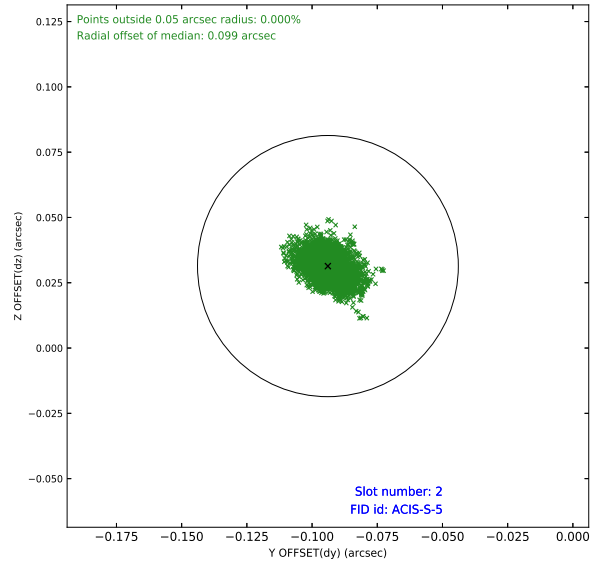
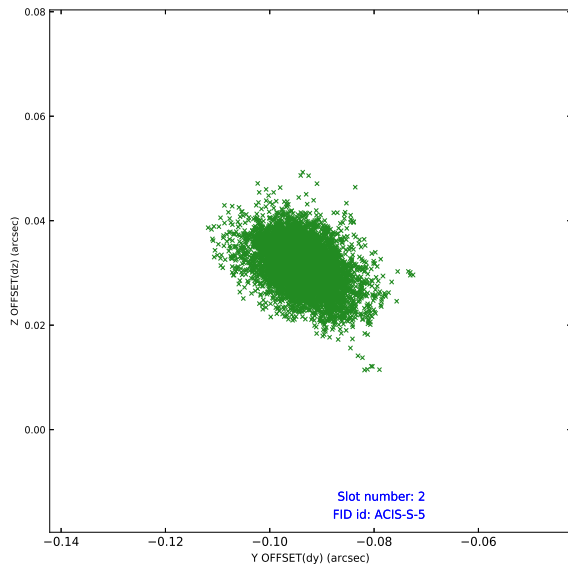
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.174

A.2 Comments