

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5392 - L2 Version 6
Chandra X-Ray Center

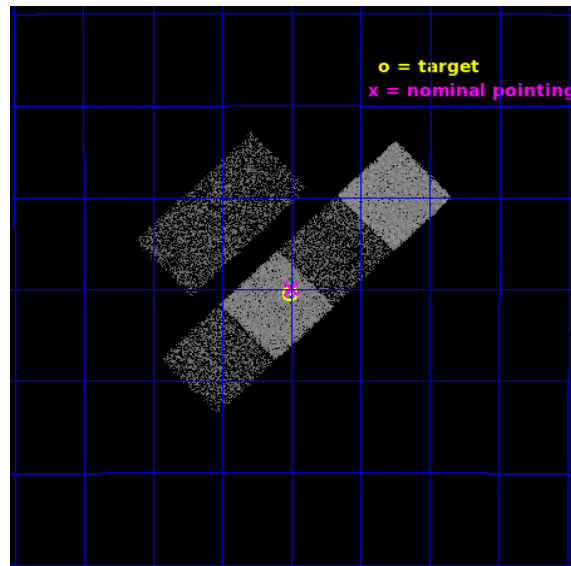
L2 Processing Date : Oct 8 2020

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1 Front

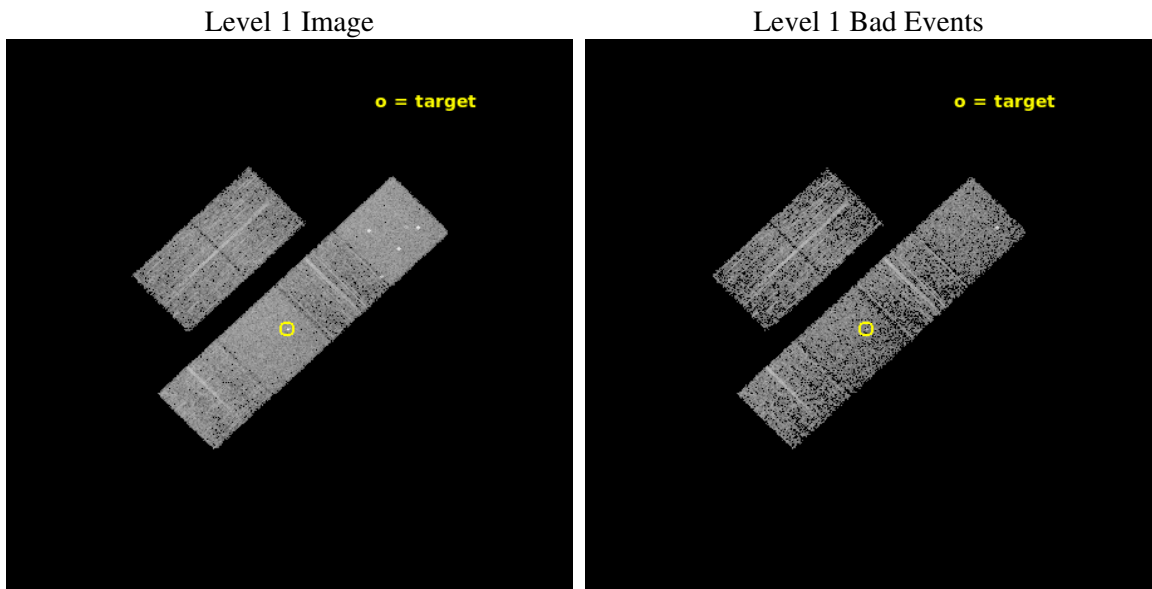
seq_num	200327	Sequence number
obs_id	5392	Observation id
title	The puzzle of X-ray emission from magnetic stars without convective envelopes	Proposal title
observer	J rgen Schmitt	Principal investigator
object	HD 15144	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.50125	Observer's specified target RA [deg]
dec_targ	-15.34125	Observer's specified target Dec [deg]
ra_nom	36.499035355305	Nominal RA [deg]
dec_nom	-15.332430139097	Nominal Dec [deg]
roll_nom	135.93652476606	Nominal Roll [deg]
revision	6	Processing version of data
ontime	2956.4255716205	Sum of GTIs [s]
livetime	2918.9895308868	Livetime [s]
ontime2	2956.4666116238	Sum of GTIs [s]
ontime3	2956.3024516106	Sum of GTIs [s]
ontime5	2956.3845316172	Sum of GTIs [s]
ontime6	2956.3434916139	Sum of GTIs [s]
ontime7	2956.4255716205	Sum of GTIs [s]
ontime8	2956.2614116371	Sum of GTIs [s]
l2events	36755	Number of level 2 events



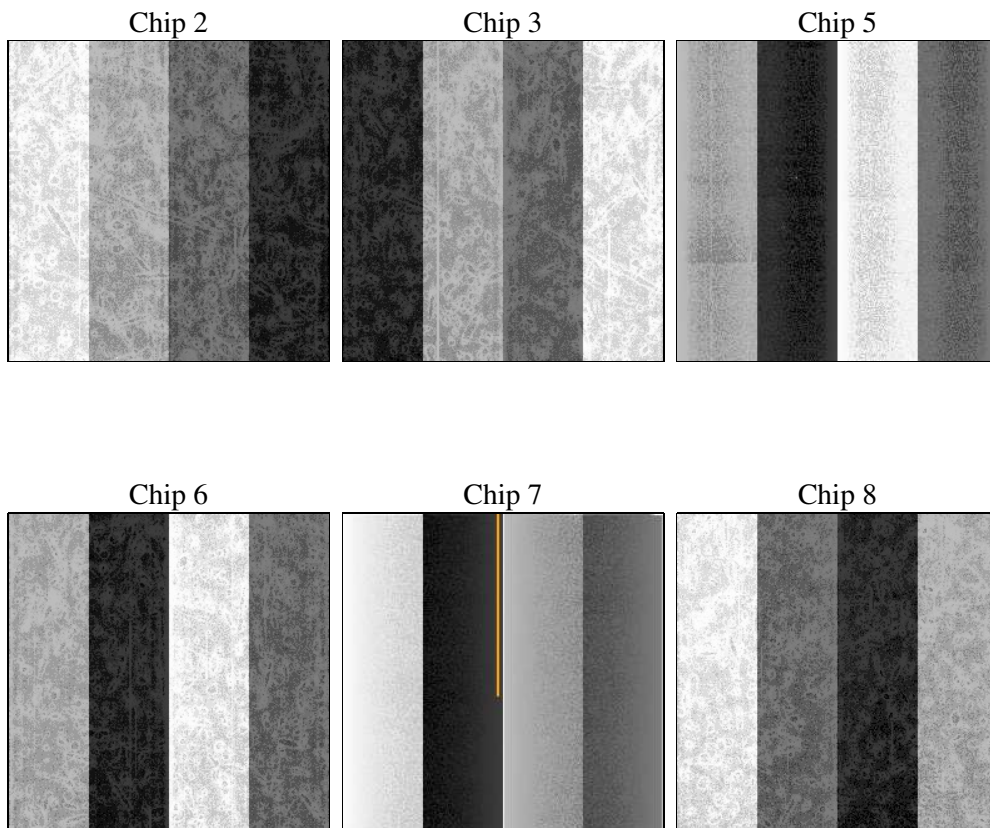
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2956.4255716205	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	2956.4666116238	Sum of GTIs [s]
date	2020-10-08T18:25:33	Date and time of file creation	ontime3	2956.3024516106	Sum of GTIs [s]
revision	6	Processing version of data	ontime5	2956.3845316172	Sum of GTIs [s]
			ontime6	2956.3434916139	Sum of GTIs [s]
			ontime7	2956.4255716205	Sum of GTIs [s]
			ontime8	2956.2614116371	Sum of GTIs [s]
			l1events	165439	Number of level 1 events

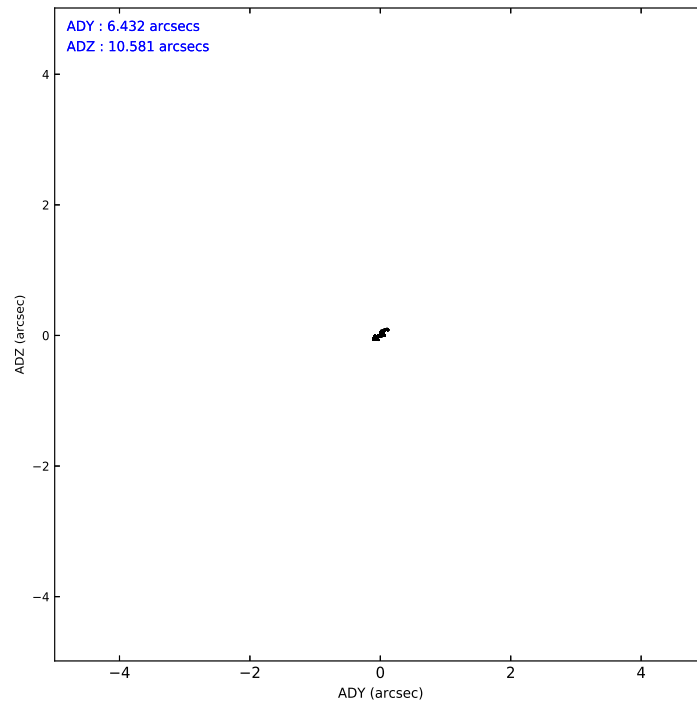
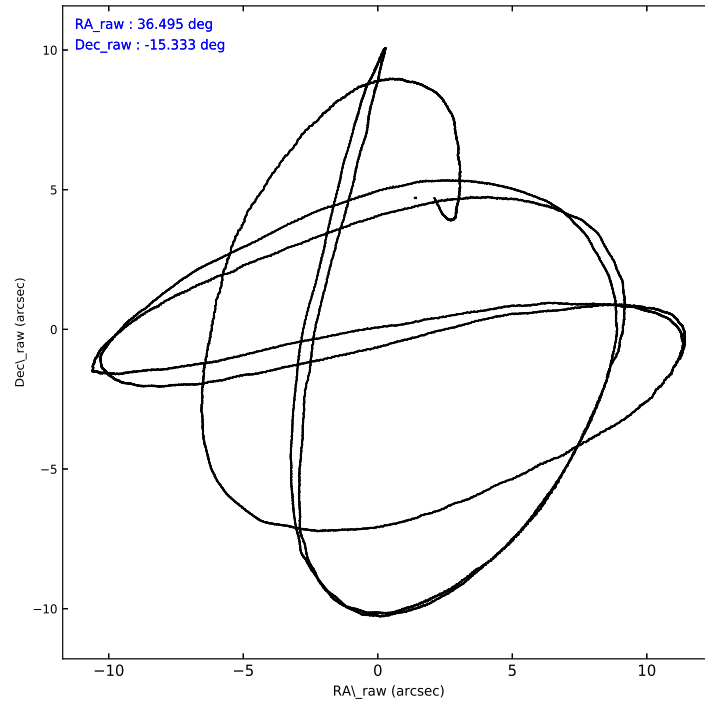
2.1.4 Events

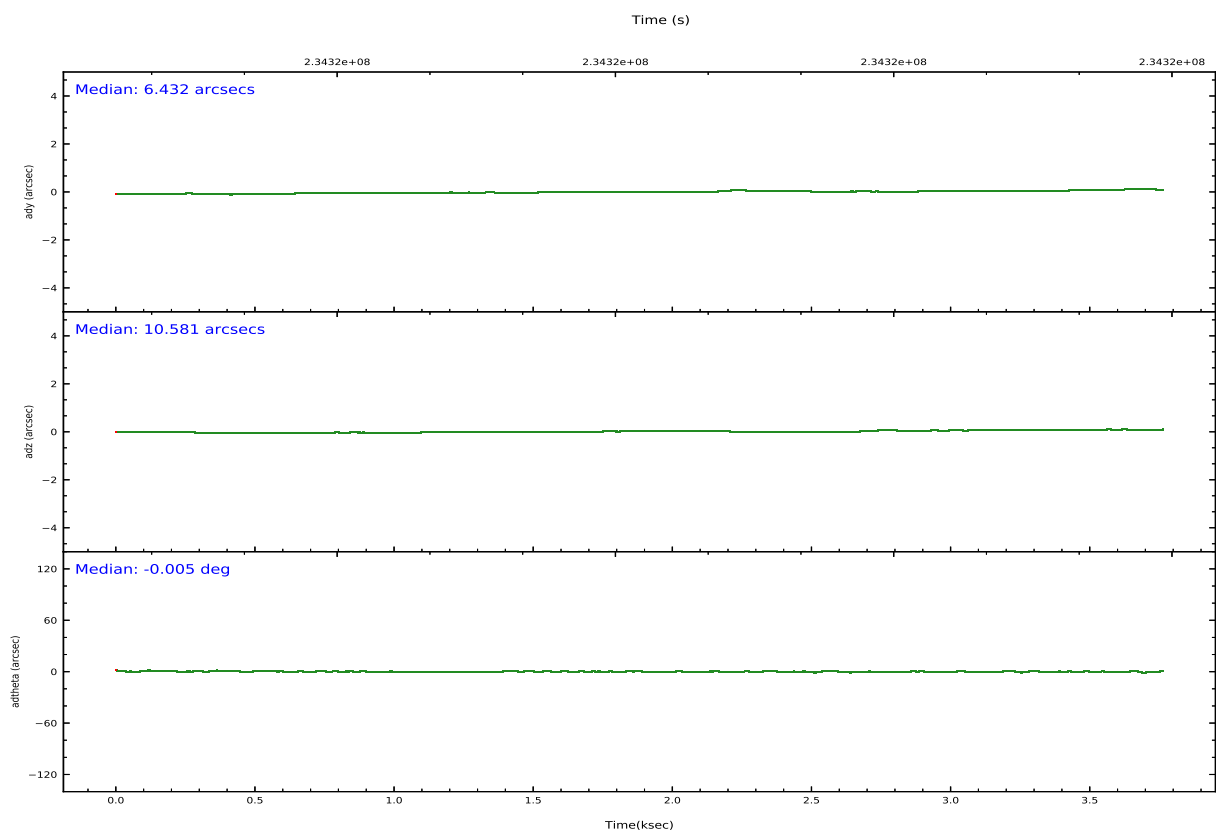
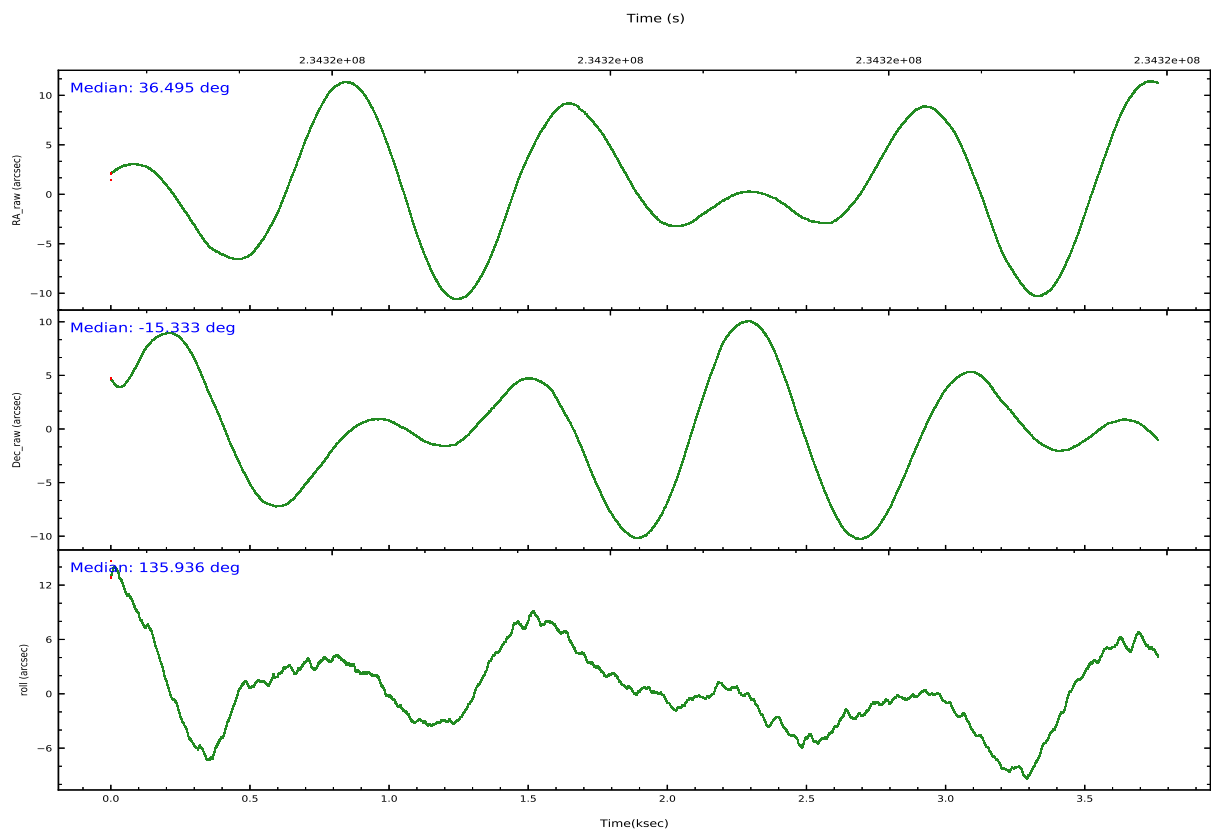
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23798	22704	35418	23813	31032	28674	grade 0 events	1219	1154	2493	1016	1301	2020
rejected events	21087	20056	18658	21156	17899	22138		5%	5%	7%	4%	4%	7%
rejected %	88%	88%	52%	88%	57%	77%	grade 1 events	16	16	63	3	37	18
								0%	0%	0%	0%	0%	0%
							grade 2 events	561	500	4853	594	2636	1525
								2%	2%	13%	2%	8%	5%
							grade 3 events	257	249	631	239	1207	643
								1%	1%	1%	1%	3%	2%
							grade 4 events	253	274	586	251	1127	624
								1%	1%	1%	1%	3%	2%
							grade 5 events	926	1069	2598	1050	2909	1337
								3%	4%	7%	4%	9%	4%
							grade 6 events	429	476	8229	560	6886	1729
								1%	2%	23%	2%	22%	6%
							grade 7 events	20137	18966	15965	20100	14929	20778
								84%	83%	45%	84%	48%	72%

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	36.522861	36.499035355305	Subarray requested	NONE	NONE
[deg] Pointing Dec	-15.339665	-15.332430139097	Alternating exposures requested	N	N
[deg] Pointing Roll	135.786742	135.93652476606	[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)	234318969.184000	234317718.23193			
Observation start date	2005-06-05T00:35:05	2005-06-05T00:15:18			
[s] Observation end time (MET)	234321969.184000	234323077.95718			
Observation end date	2005-06-05T01:25:05	2005-06-05T01:44:37			
Read mode	TIMED	TIMED			

2.3 Aspect



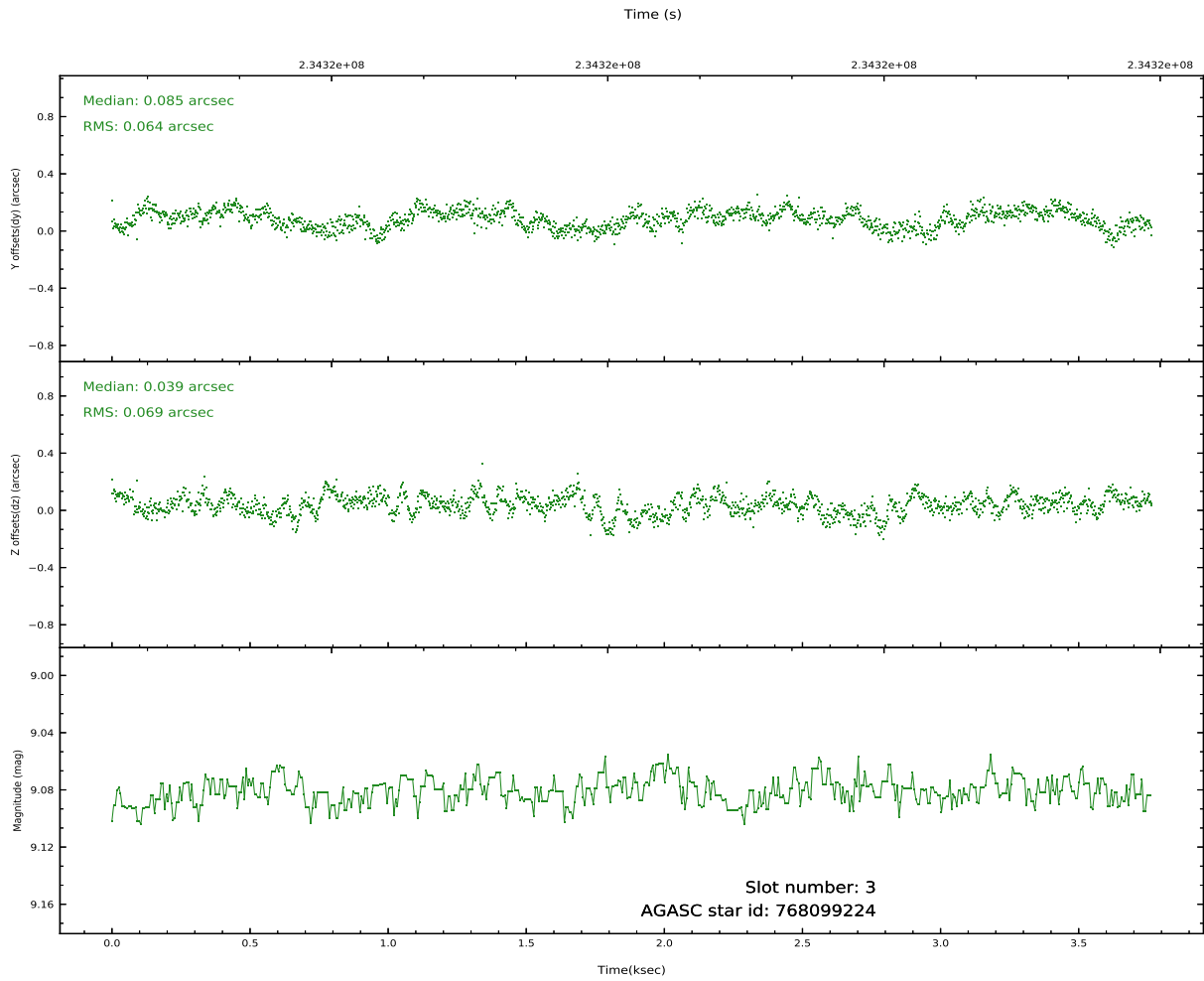
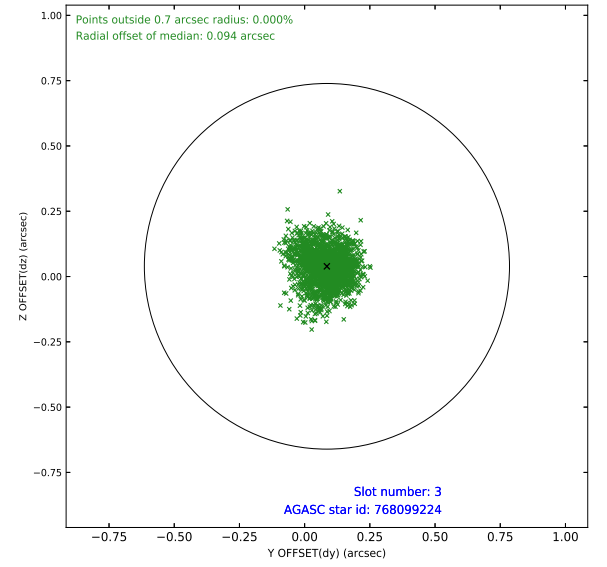
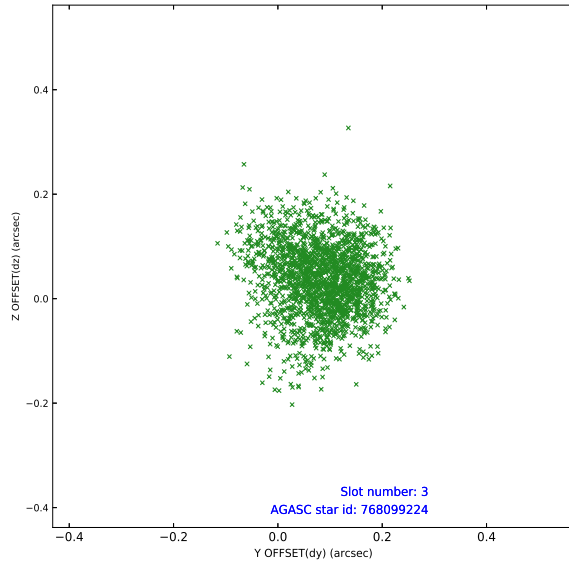


Slot Statistics

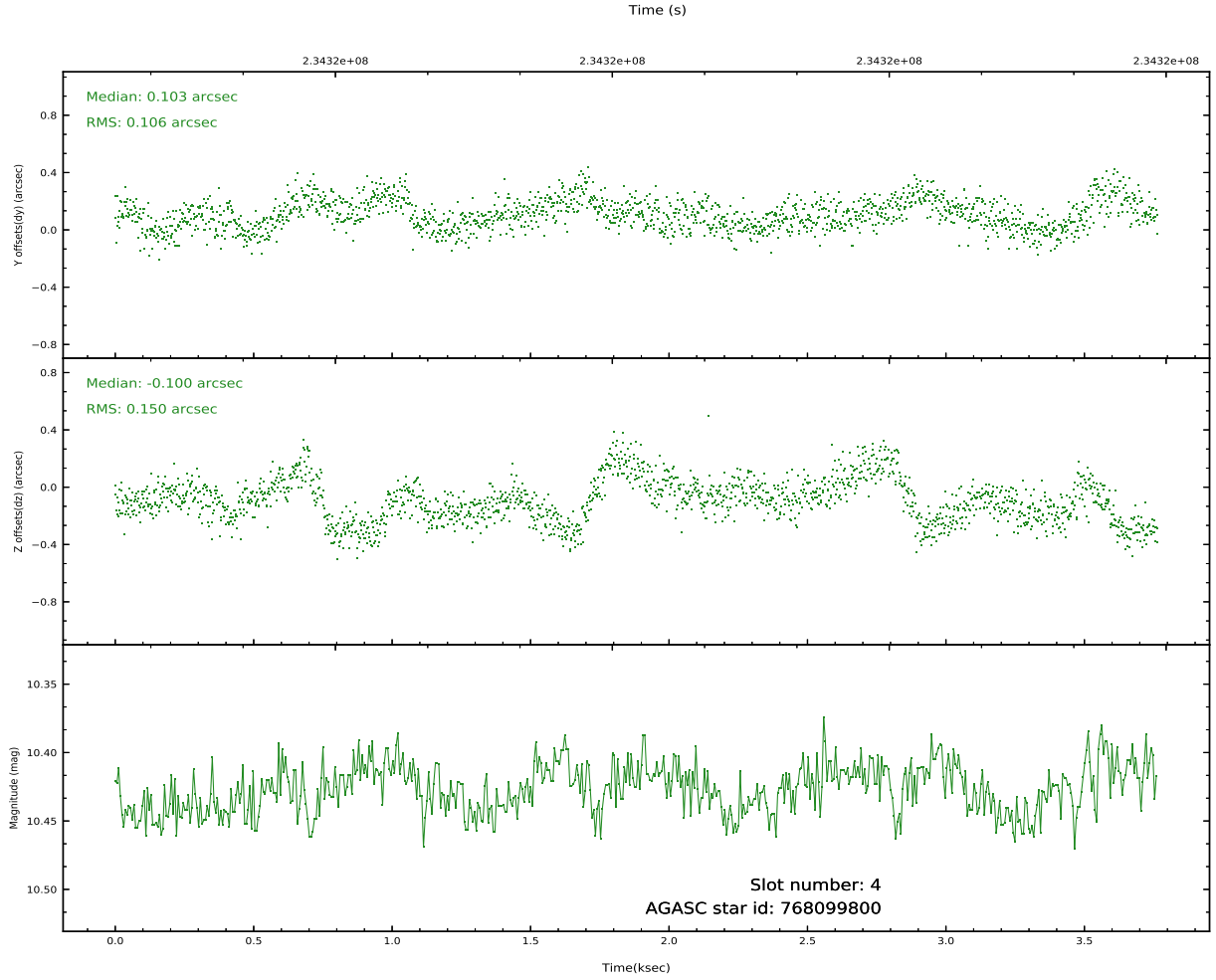
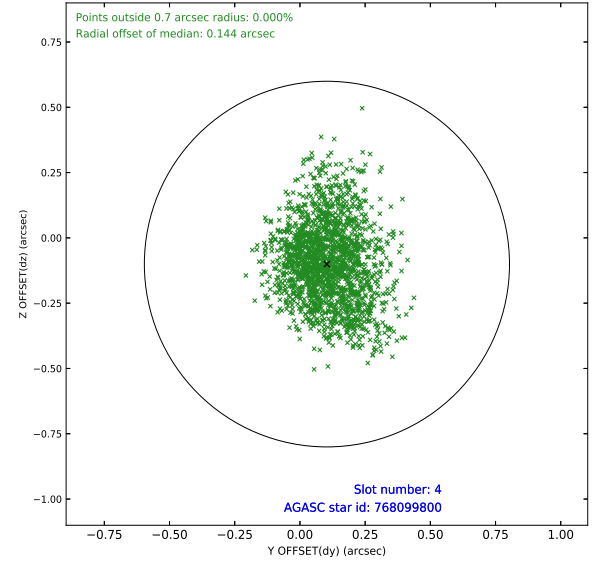
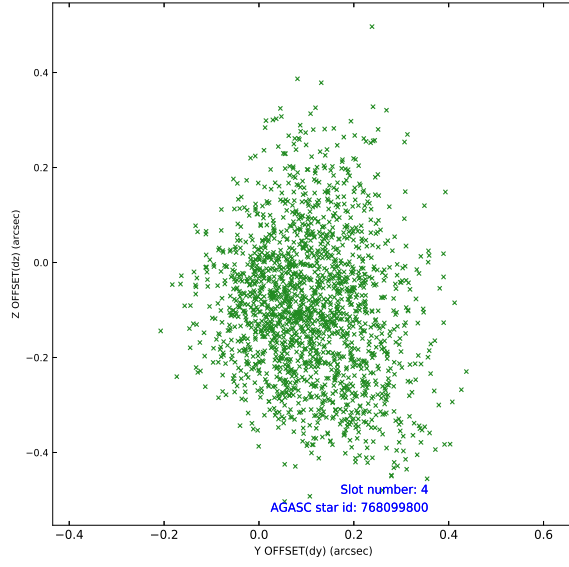
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	918	1.000	-0.114	-0.095	0.006	0.010	0.000000	0.000000	-759.24	-1731
1	FID		ACIS-S-4	7.20	919	1.000	0.096	0.057	0.006	0.011	0.000000	0.000000	2153.45	175
2	FID		ACIS-S-6	7.35	919	1.000	-0.009	0.045	0.007	0.011	0.000000	0.000000	404.94	814
3	GUIDE	used	768099224	9.08	1836	1.000	0.085	0.039	0.101	0.161	37.197220	-15.299441	-1579.68	-1733
4	GUIDE	used	768099800	10.43	1836	1.000	0.103	-0.100	0.194	0.325	36.291049	-15.196392	935.74	192
5	GUIDE	used	768102400	9.81	1834	1.000	-0.101	0.089	0.109	0.178	36.805499	-15.028625	76.64	-1486
6	GUIDE	used	767967160	9.86	1834	1.000	-0.086	-0.027	0.129	0.210	35.745534	-15.541992	1420.91	2405
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

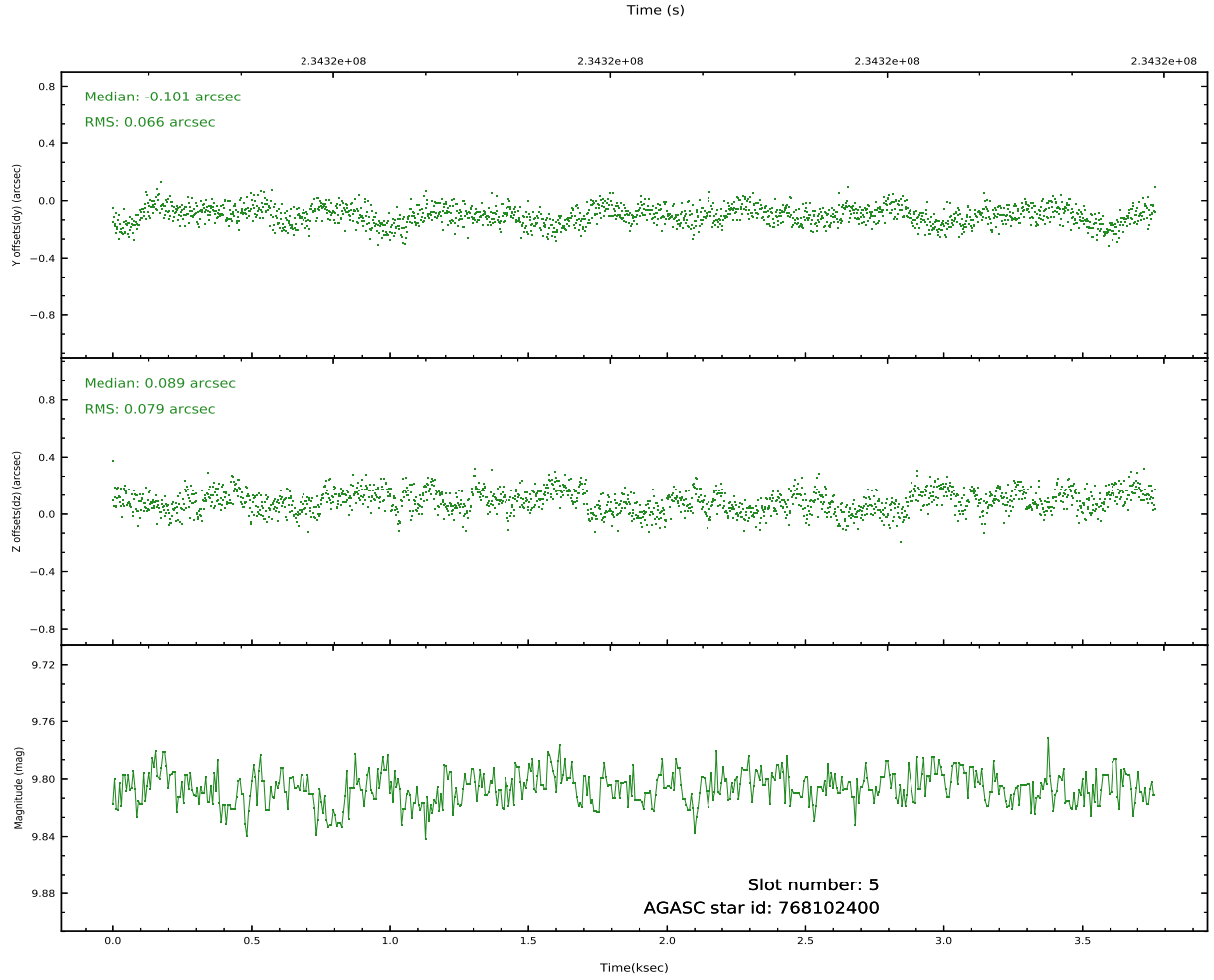
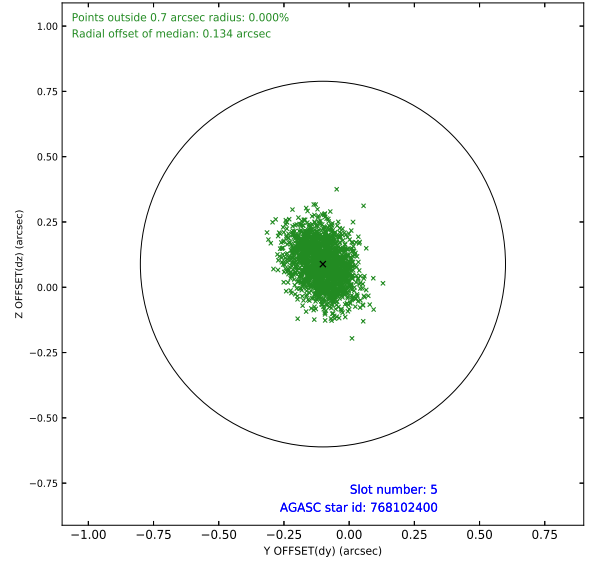
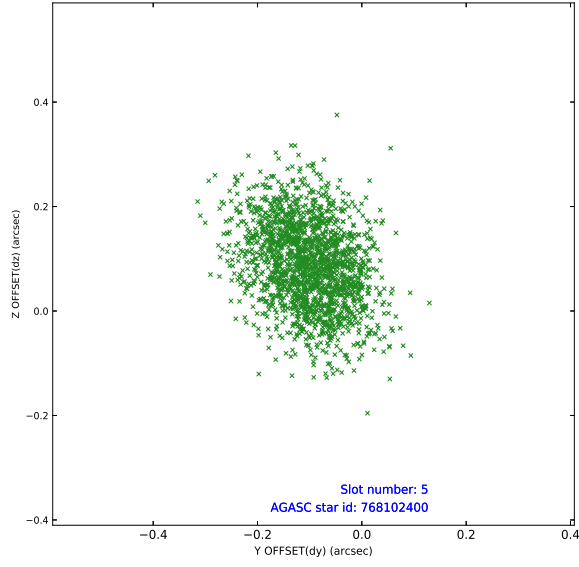
2.4.1 Slot 3



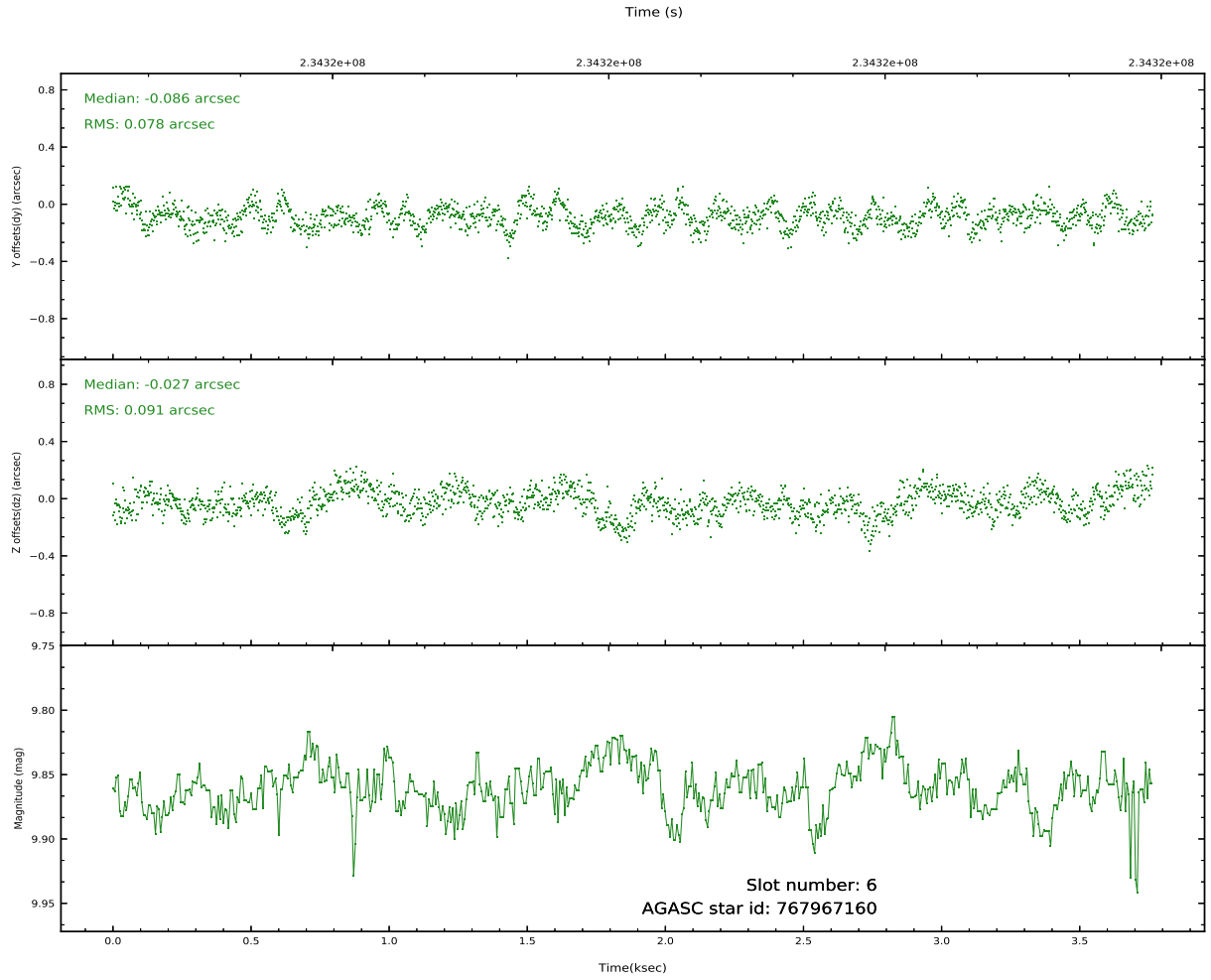
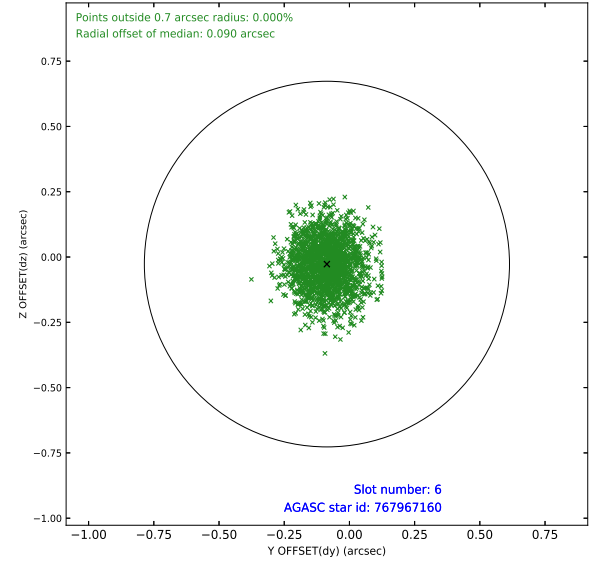
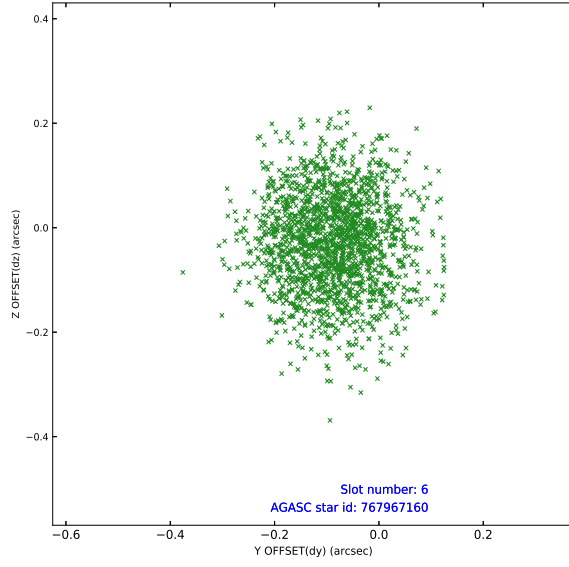
2.4.2 Slot 4



2.4.3 Slot 5

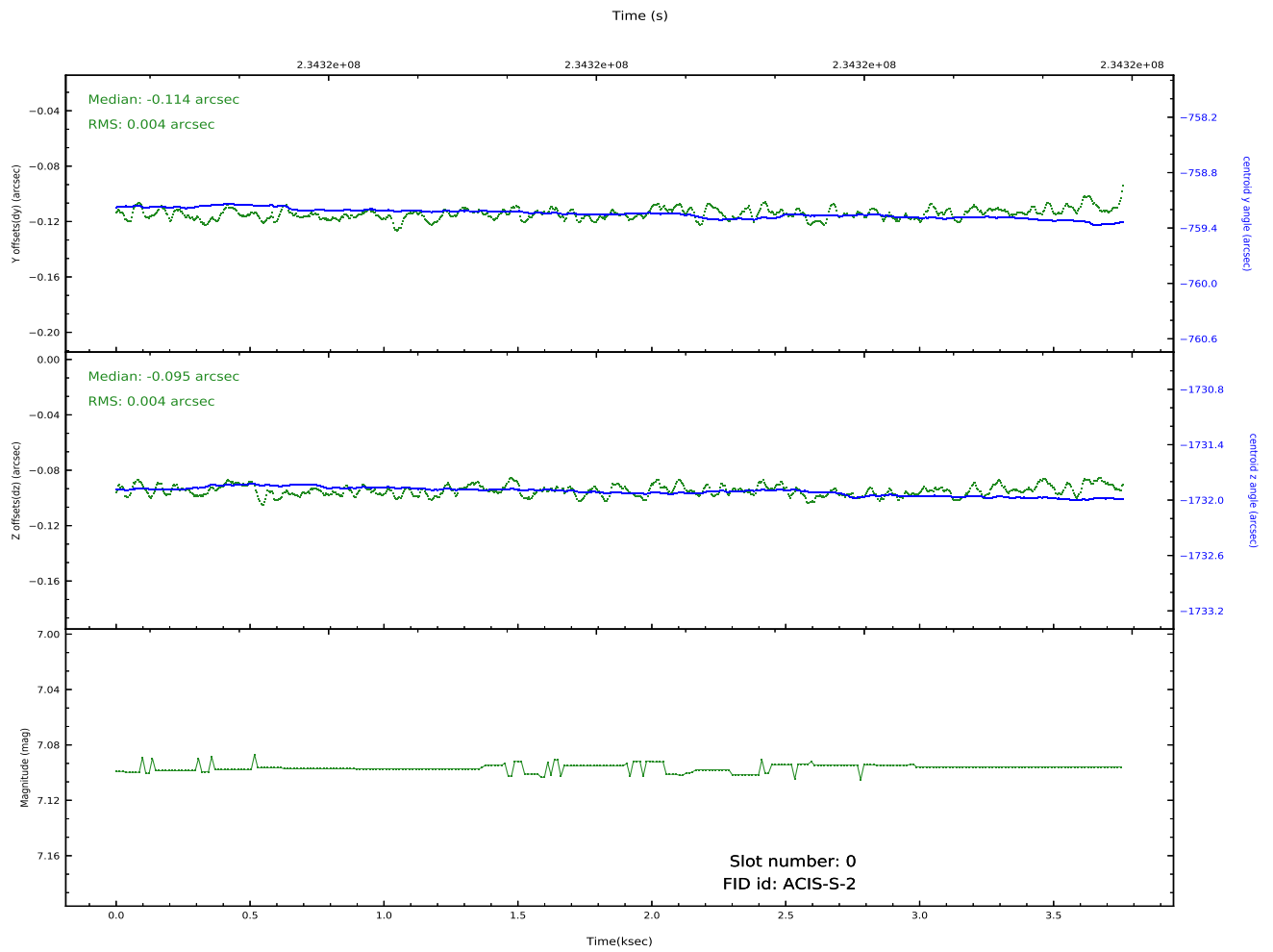
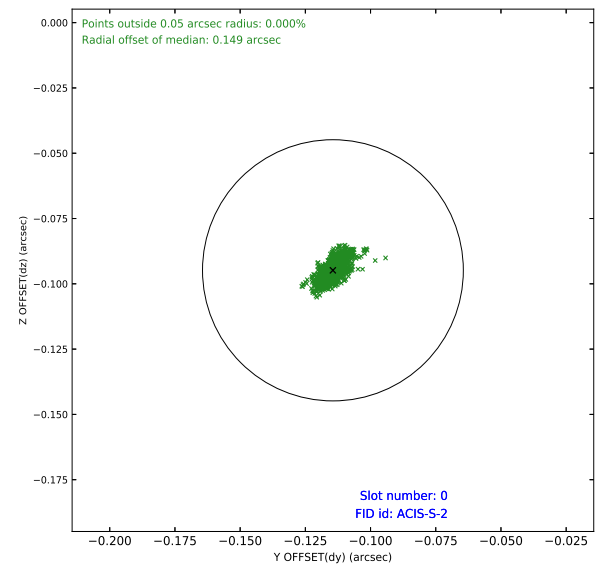
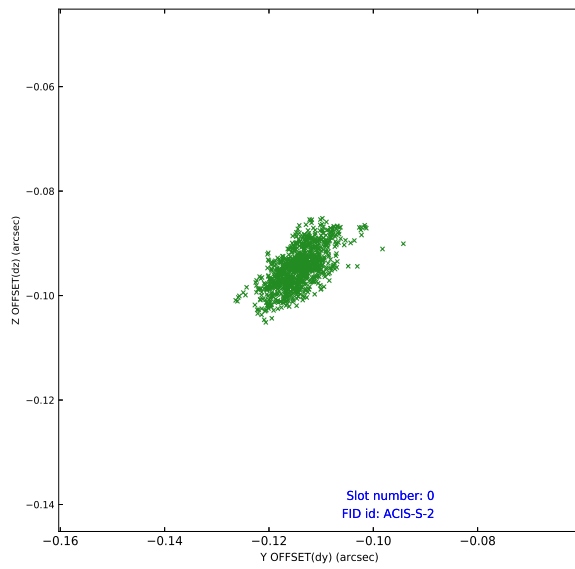


2.4.4 Slot 6

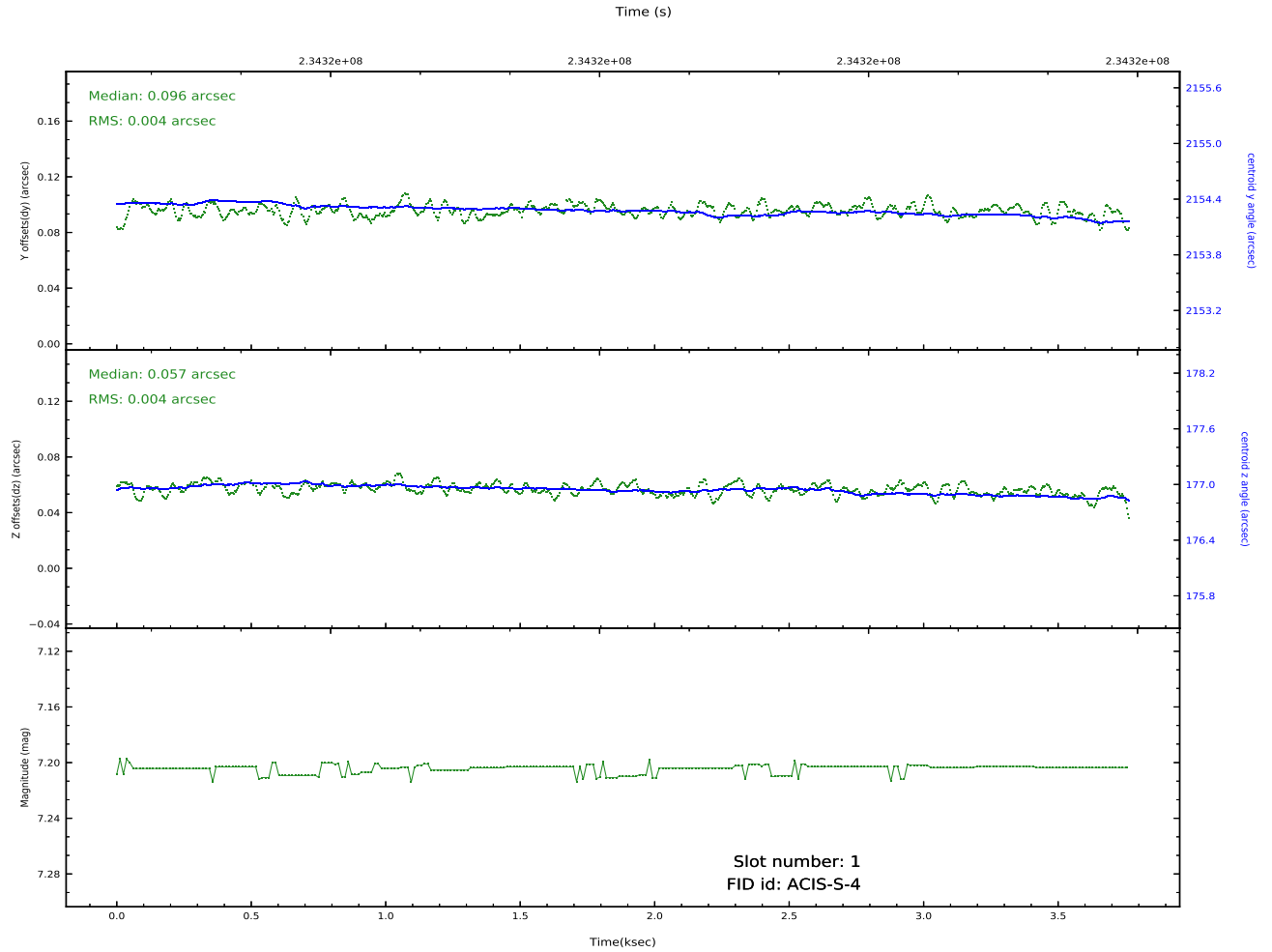
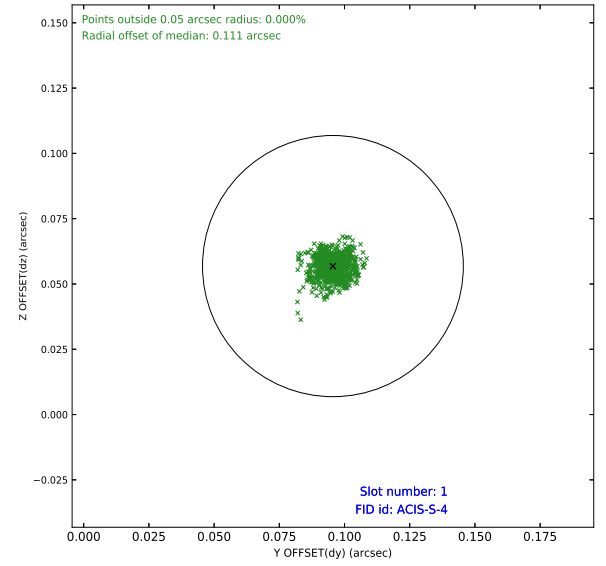
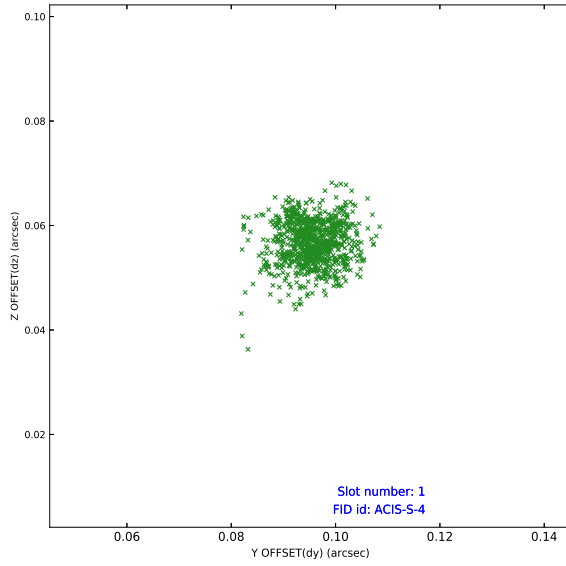


2.5 FID Slots

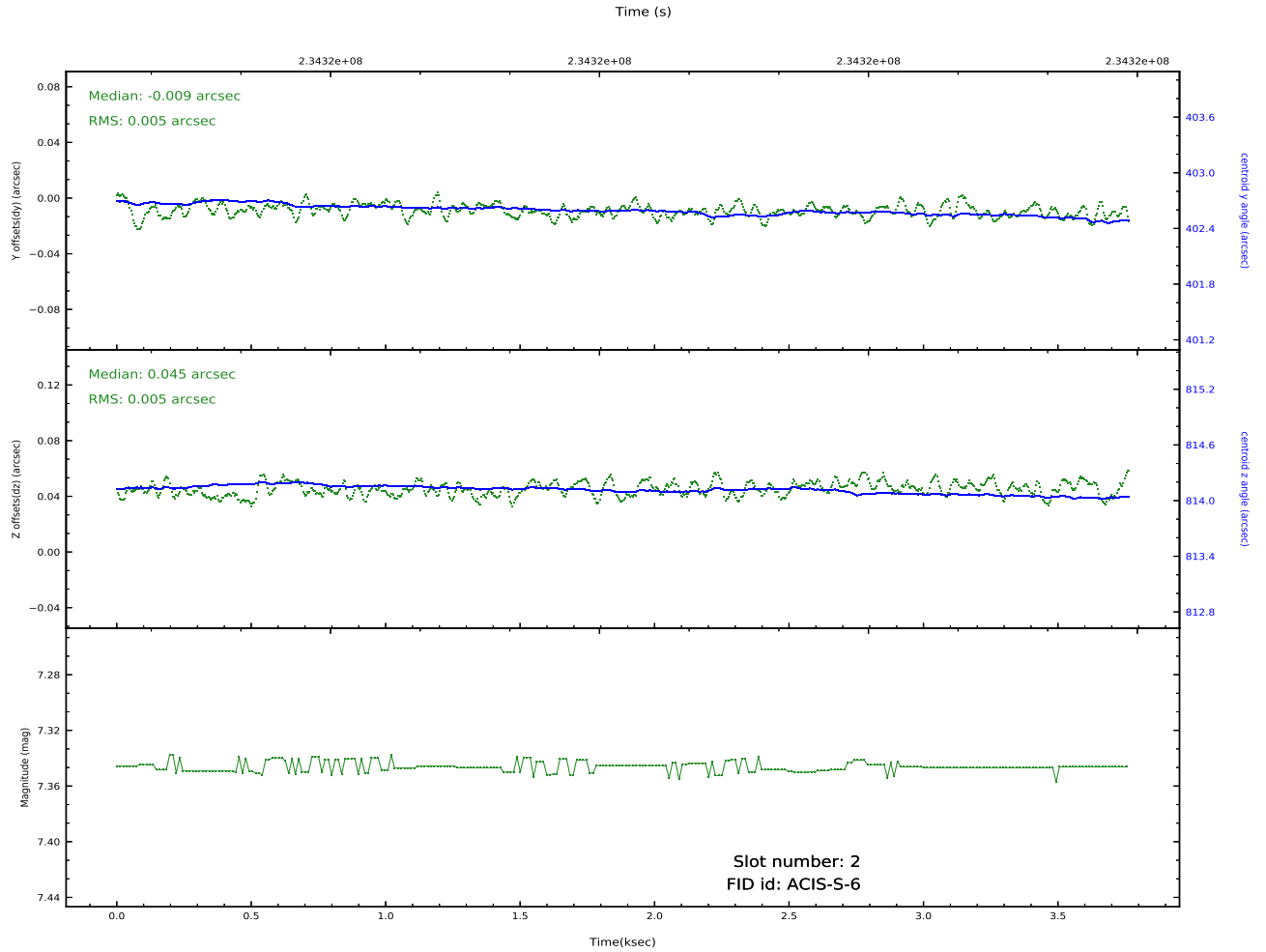
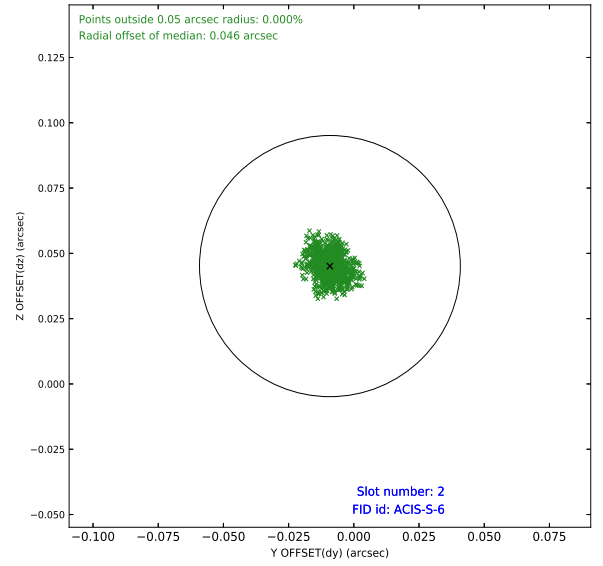
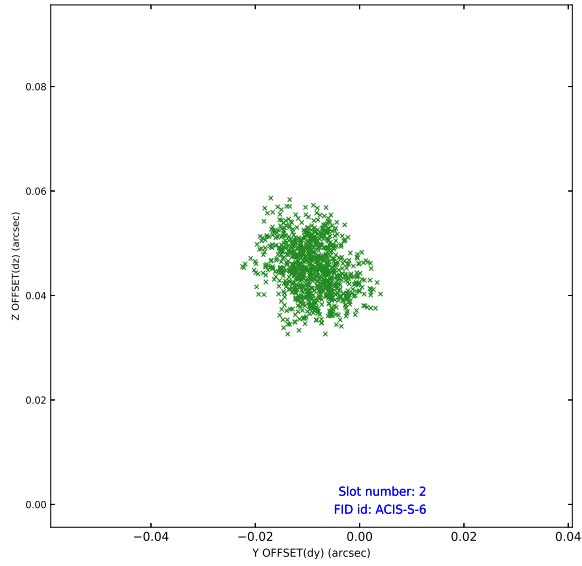
2.5.1 Slot 0



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.956799

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.