

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4484 - L2 Version 4
Chandra X-Ray Center

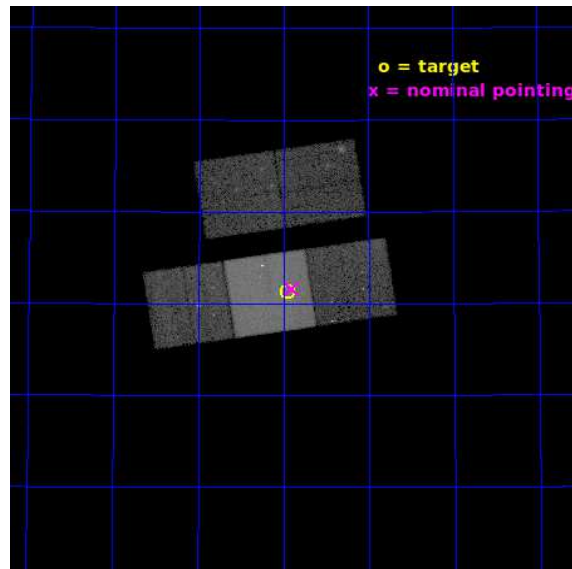
L2 Processing Date : Oct 8 2020

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1 Front

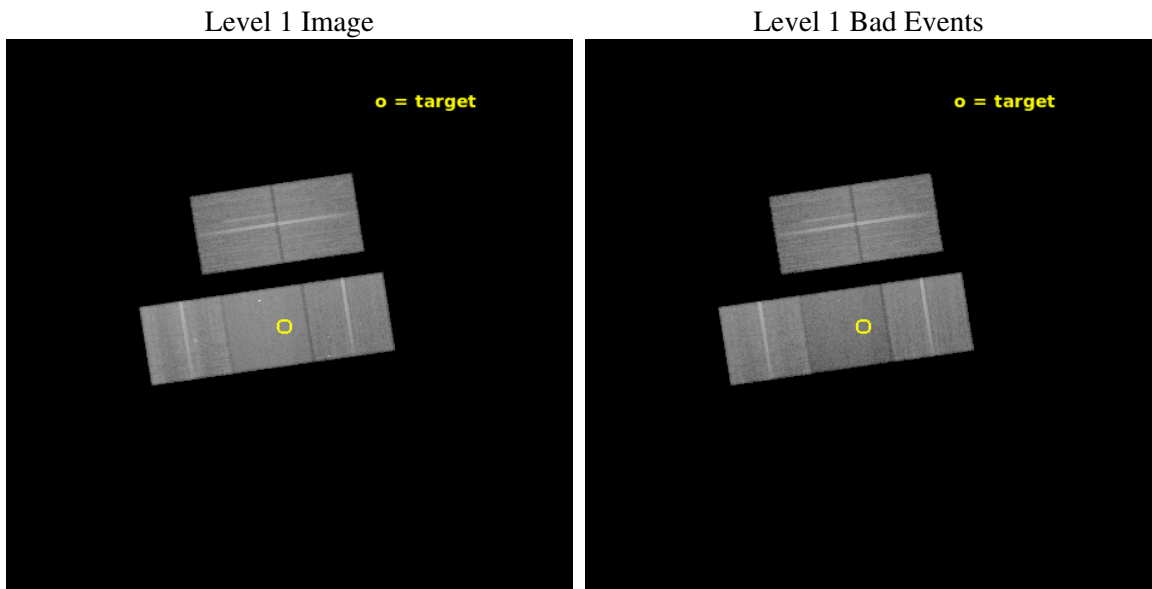
seq_num	200253	Sequence number
obs_id	4484	Observation id
title	Coronal X-Rays from single, Cool, Magnetic White Dwarfs	Proposal t
observer	Prof. Virginia Trimble	Principal investigator
object	GD356	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	250.2375	Observer's specified target RA [deg]
dec_targ	53.688333	Observer's specified target Dec [deg]
ra_nom	250.22603617693	Nominal RA [deg]
dec_nom	53.693996131656	Nominal Dec [deg]
roll_nom	171.42734971435	Nominal Roll [deg]
revision	4	Processing version of data
ontime	32238.583681673	Sum of GTIs [s]
livetime	31817.362852172	Livetime [s]
ontime2	32238.41952166	Sum of GTIs [s]
ontime3	32232.219651163	Sum of GTIs [s]
ontime6	32238.54264167	Sum of GTIs [s]
ontime7	32238.583681673	Sum of GTIs [s]
ontime8	32232.178660959	Sum of GTIs [s]
l2events	176937	Number of level 2 events



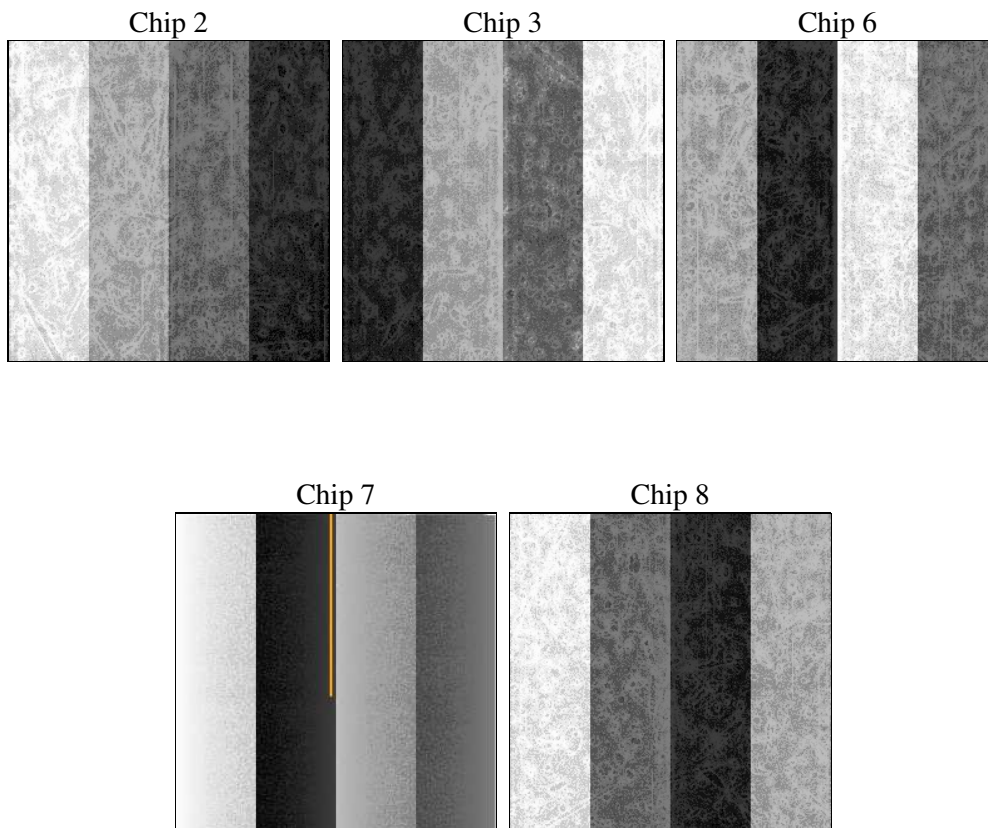
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	32200.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	32238.583681673	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	32238.41952166	Sum of GTIs [s]
date	2020-10-08T12:07:19	Date and time of file creation	ontime3	32232.219651163	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	32238.54264167	Sum of GTIs [s]
			ontime7	32238.583681673	Sum of GTIs [s]
			ontime8	32232.178660959	Sum of GTIs [s]
			l1events	1082012	Number of level 1 events

2.1.4 Events

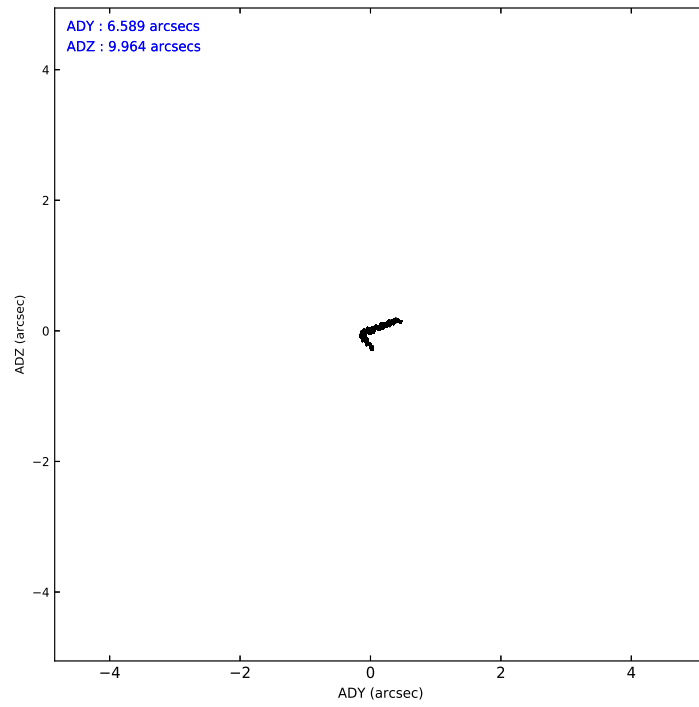
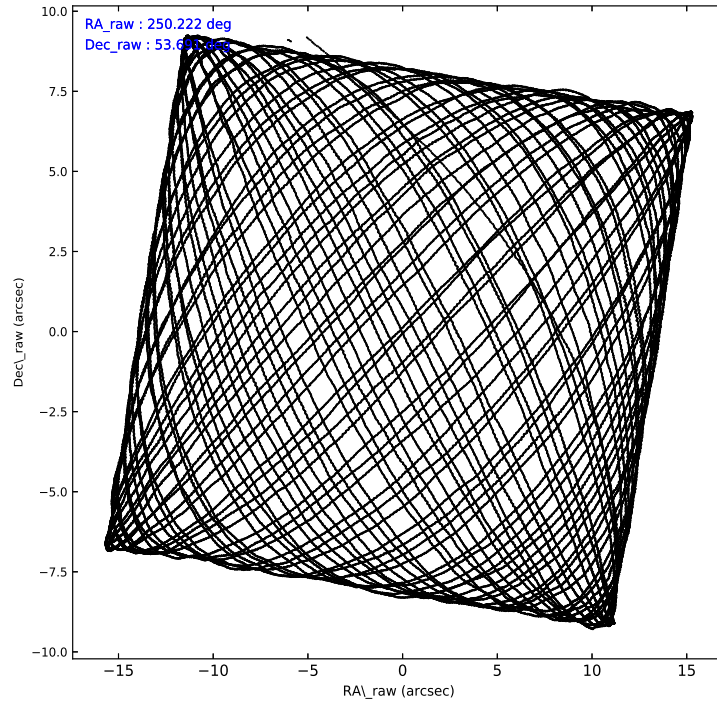
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	200591	194656	201132	228230	257403
rejected events	180884	176255	178467	122790	196905
rejected %	90%	90%	88%	53%	76%

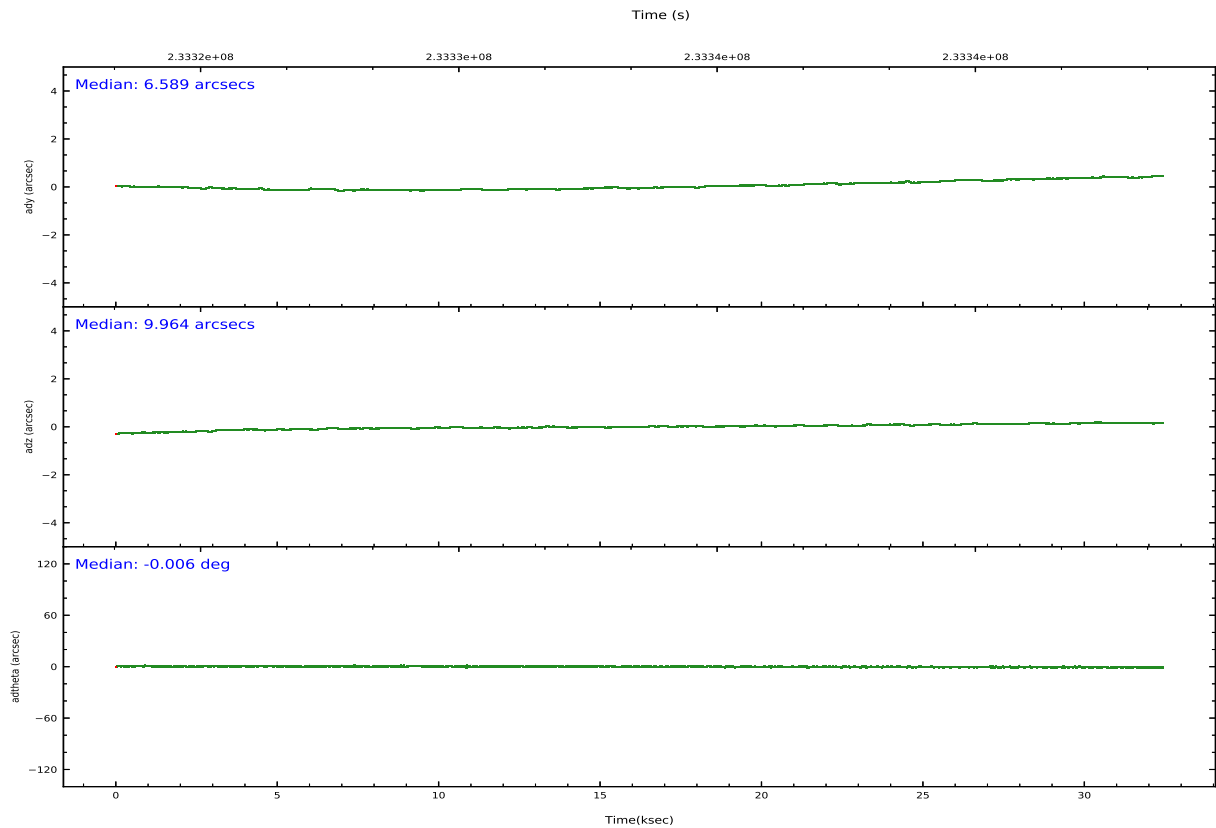
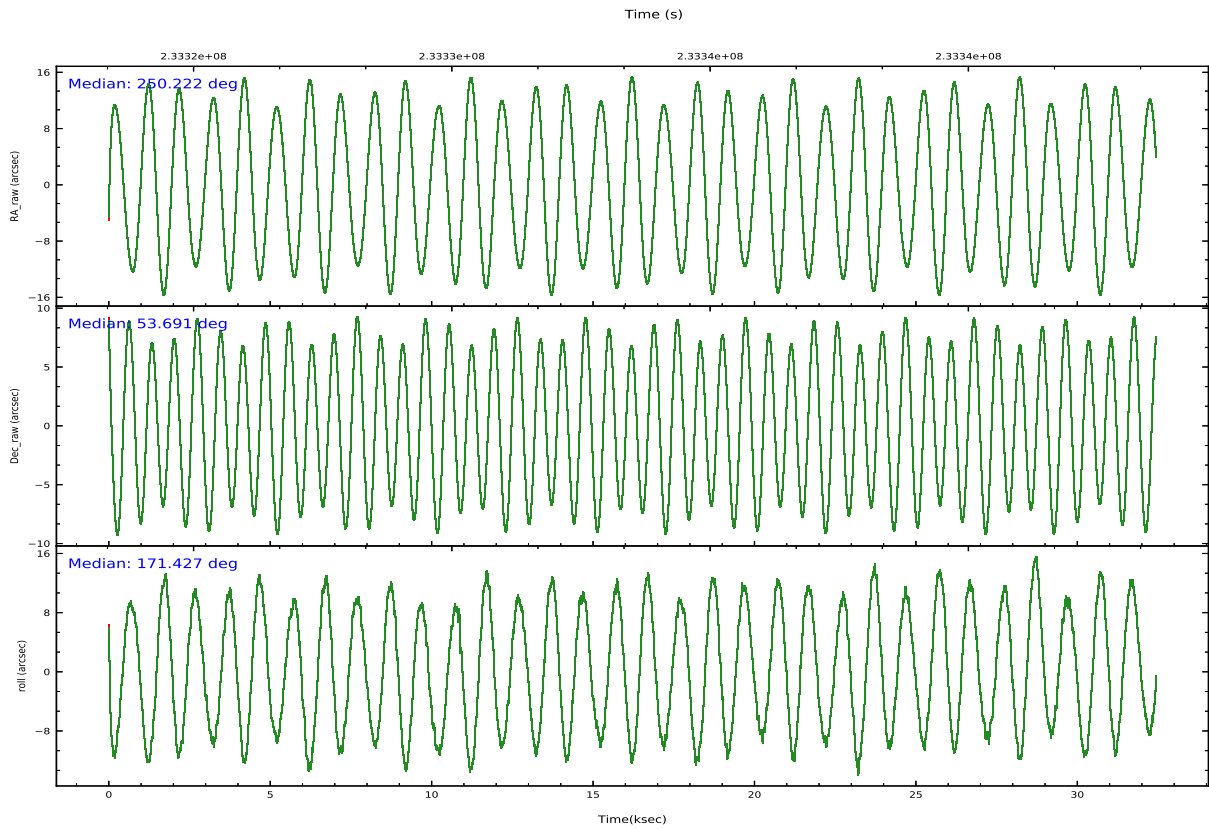
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7242	6428	8691	10772	18587
	3%	3%	4%	4%	7%
grade 1 events	103	107	93	255	190
	0%	0%	0%	0%	0%
grade 2 events	4468	3929	4719	21633	13548
	2%	2%	2%	9%	5%
grade 3 events	2226	2124	2405	9931	6542
	1%	1%	1%	4%	2%
grade 4 events	2244	2180	2305	10143	5972
	1%	1%	1%	4%	2%
grade 5 events	6624	7769	8303	24238	11732
	3%	3%	4%	10%	4%
grade 6 events	3527	3742	4549	52970	15850
	1%	1%	2%	23%	6%
grade 7 events	174157	168377	170067	98288	184982
	86%	86%	84%	43%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	250.264628	250.22603617693	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.701705	53.693996131656	Alternating exposures requested	N	N
[deg] Pointing Roll	171.234767	171.42734971435	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	233317616.184000	233316661.16128			
Observation start date	2005-05-24T10:25:52	2005-05-24T10:11:01			
[s] Observation end time (MET)	233349816.184000	233350381.10032			
Observation end date	2005-05-24T19:22:32	2005-05-24T19:33:01			
Read mode	TIMED	TIMED			

2.3 Aspect





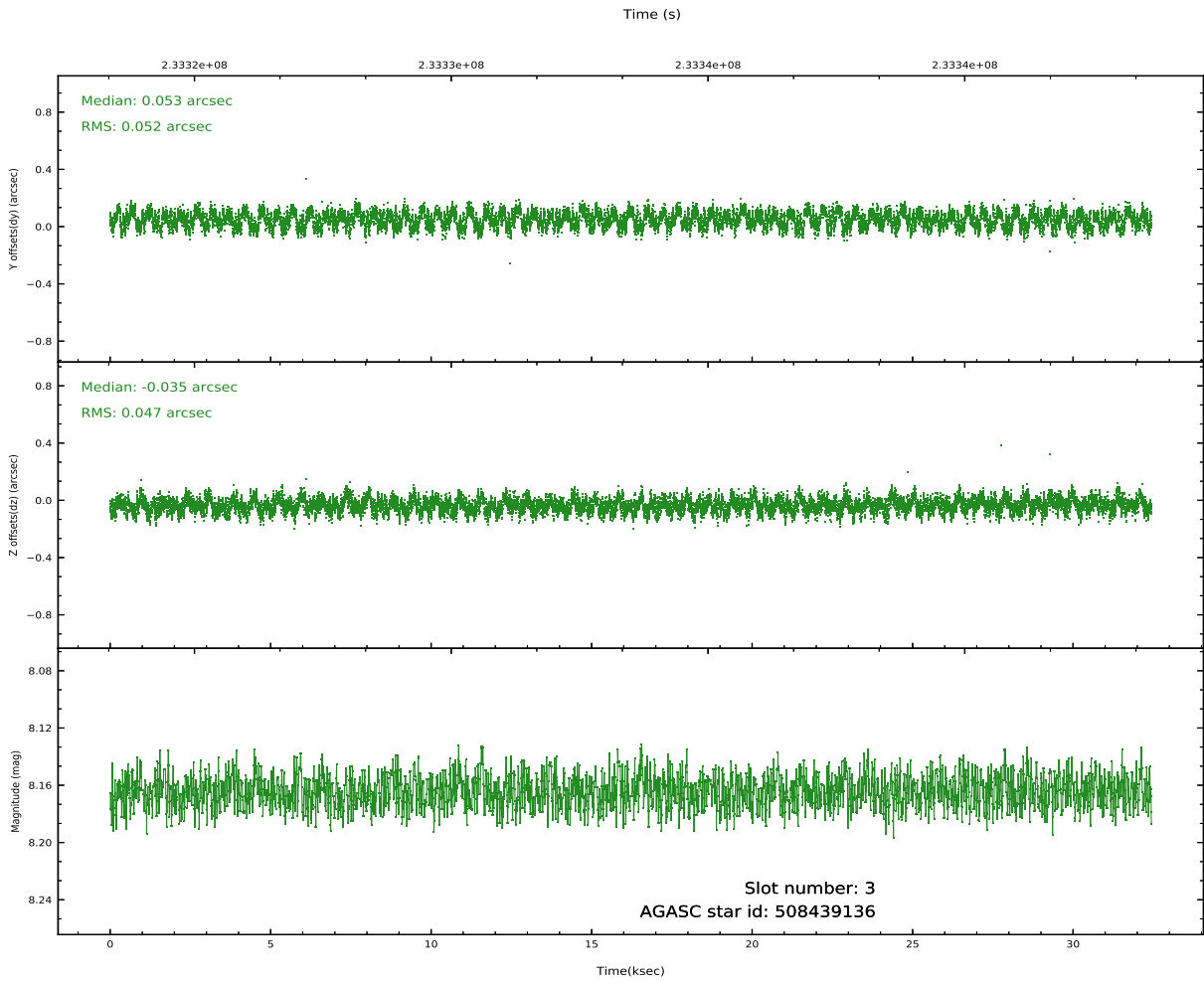
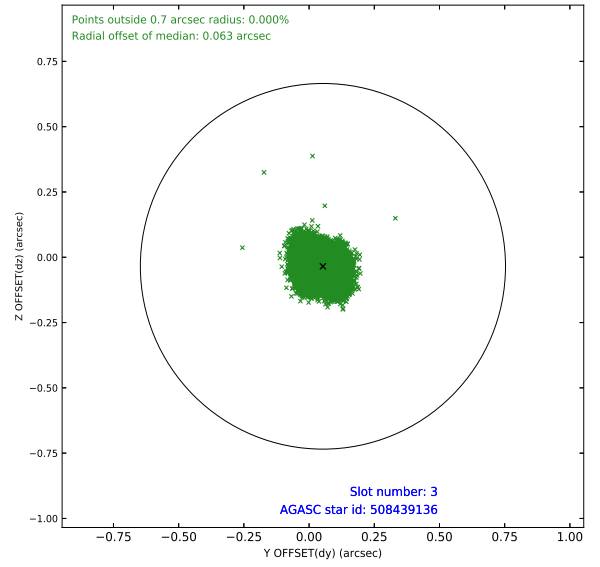
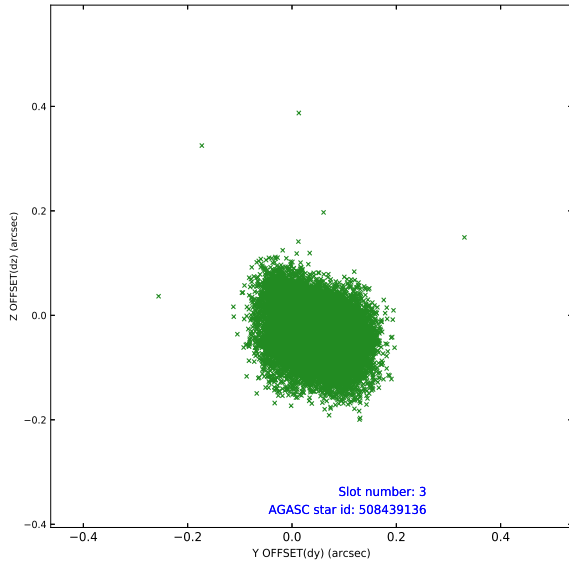
Slot Statistics

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	7913	1.000	-0.094	-0.068	0.007	0.011	0.000000	0.000000	-759.42	-1731
1	FID		ACIS-S-4	7.20	7912	1.000	0.167	0.064	0.006	0.011	0.000000	0.000000	2154.03	177
2	FID		ACIS-S-5	7.23	7913	1.000	-0.104	0.013	0.007	0.012	0.000000	0.000000	-1812.27	170
3	GUIDE	used	508439136	8.16	15826	1.000	0.053	-0.035	0.075	0.118	250.435056	53.072595	-709.28	2181
4	GUIDE	used	508445160	9.29	15816	1.000	-0.149	0.068	0.108	0.178	249.450875	54.079473	1907.46	-1091
5	GUIDE	used	508446832	9.05	15814	1.000	-0.003	0.040	0.112	0.174	249.190096	53.496641	2164.77	1063
6	GUIDE	used	508448008	8.98	15818	1.000	0.045	-0.060	0.076	0.121	250.573060	53.621979	-693.94	182
7	GUIDE	used	508448144	9.32	15811	1.000	0.060	-0.010	0.090	0.145	250.663719	53.585278	-906.05	281

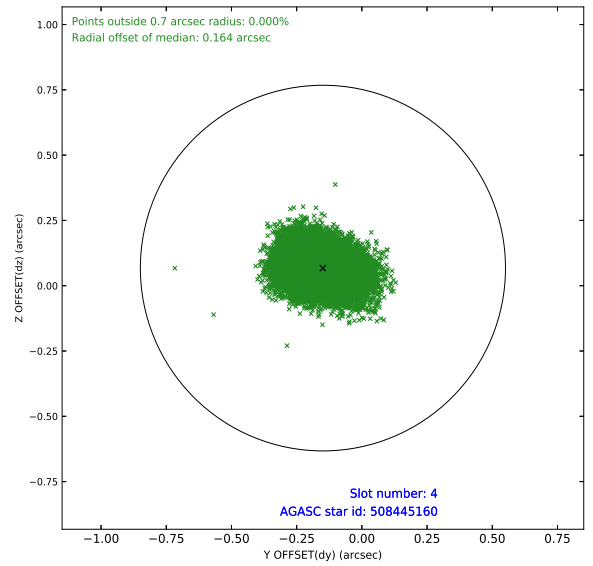
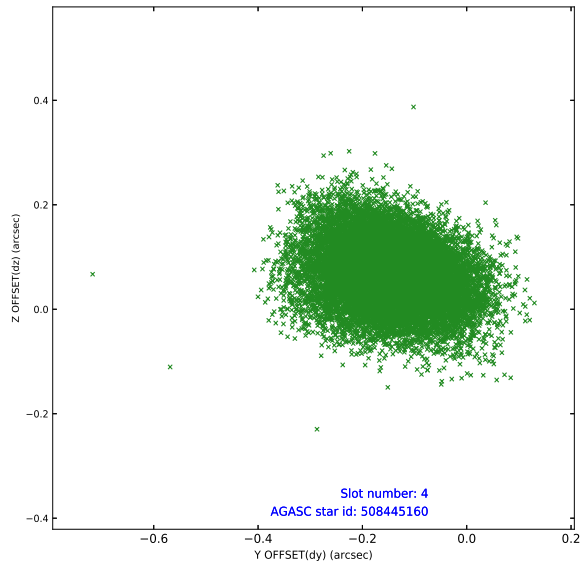
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2.4 Star Slots

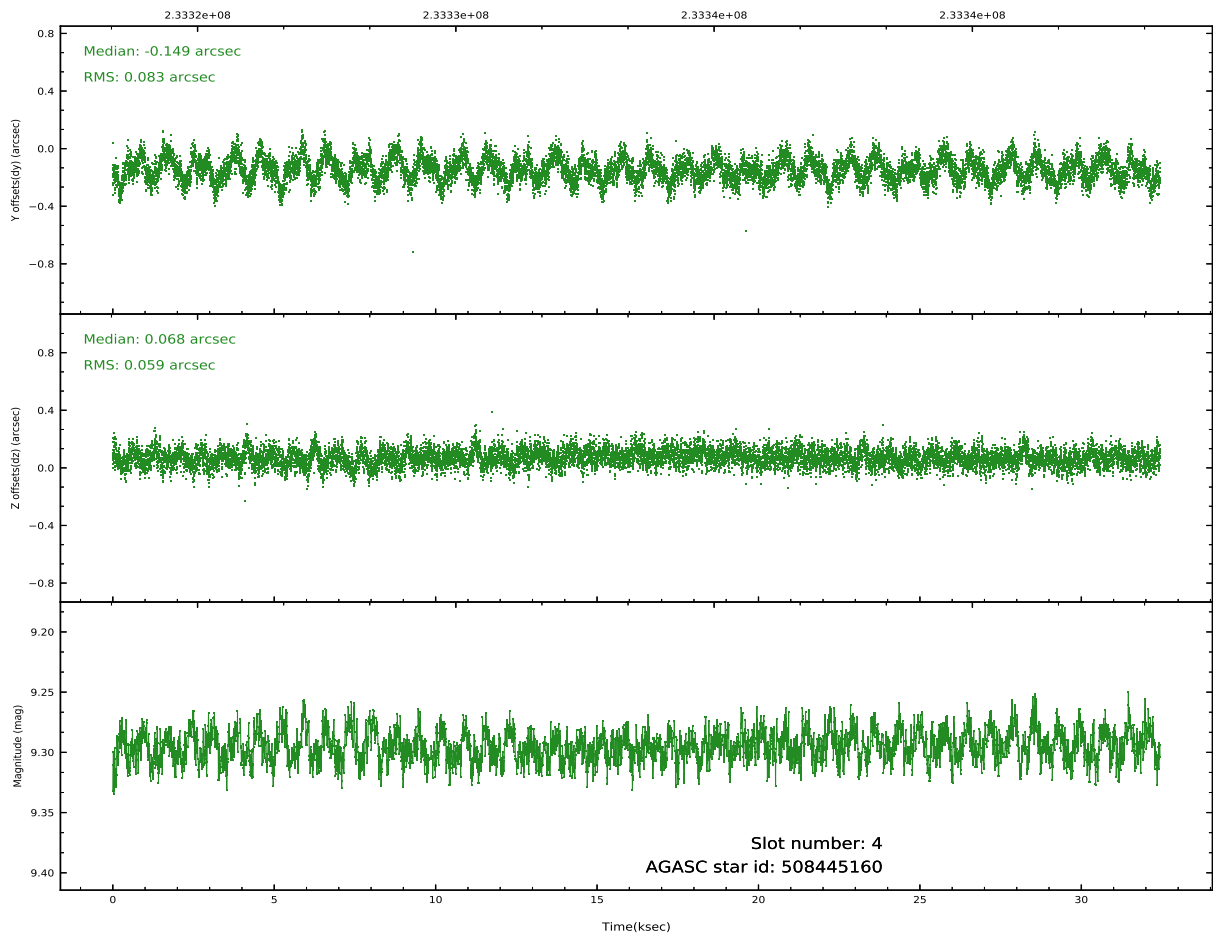
2.4.1 Slot 3



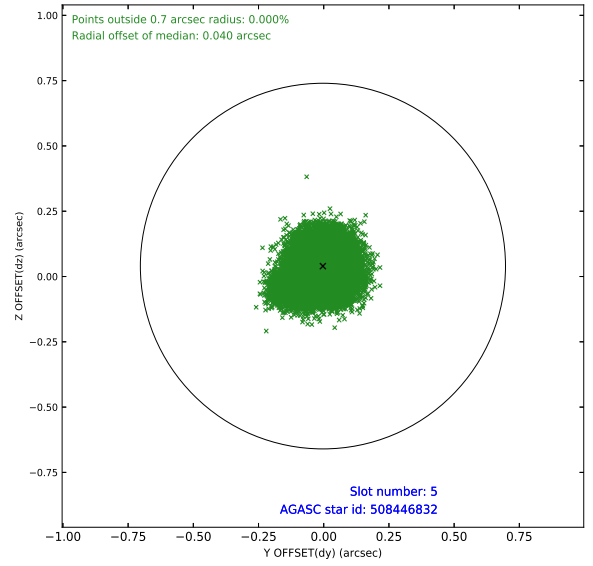
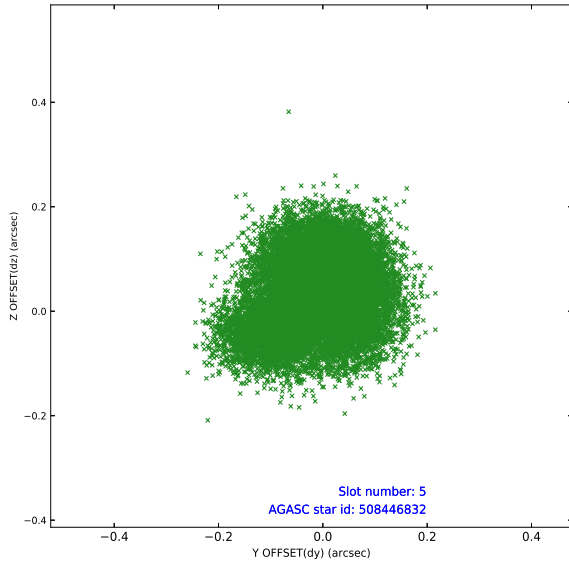
2.4.2 Slot 4



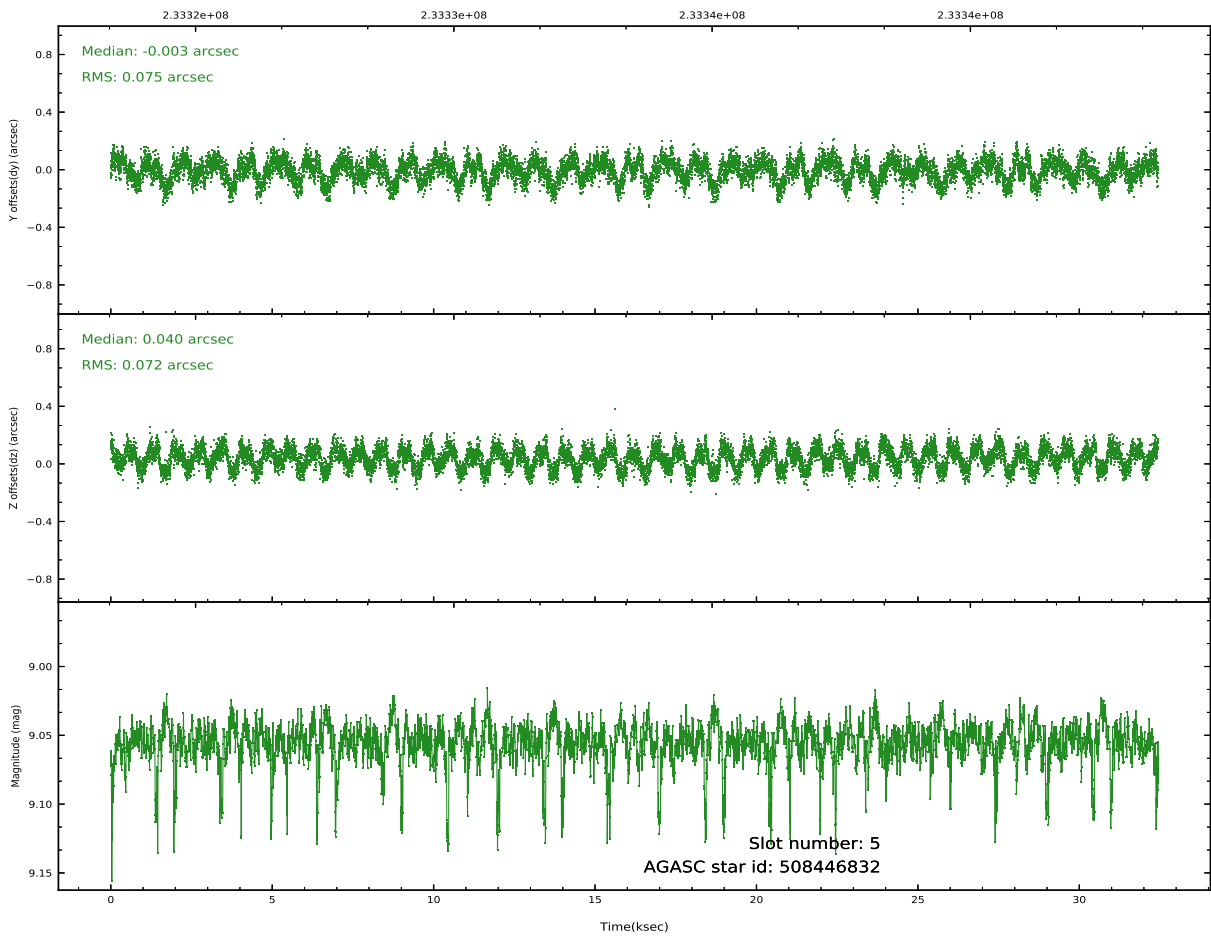
Time (s)



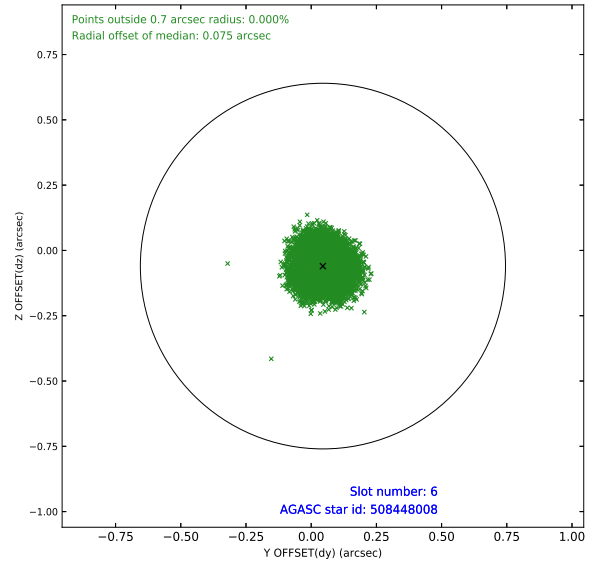
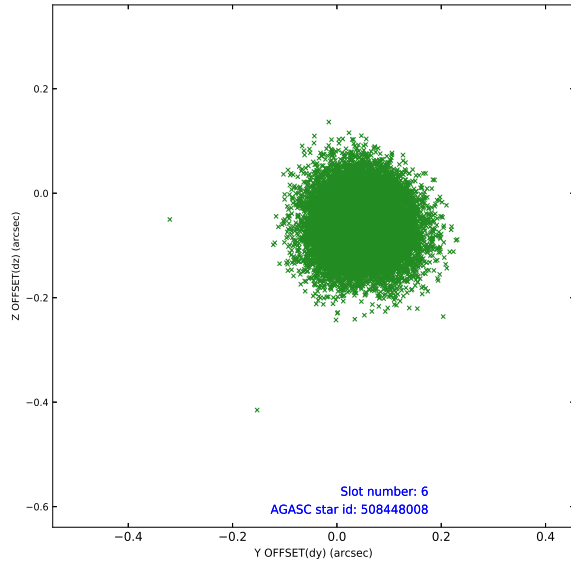
2.4.3 Slot 5



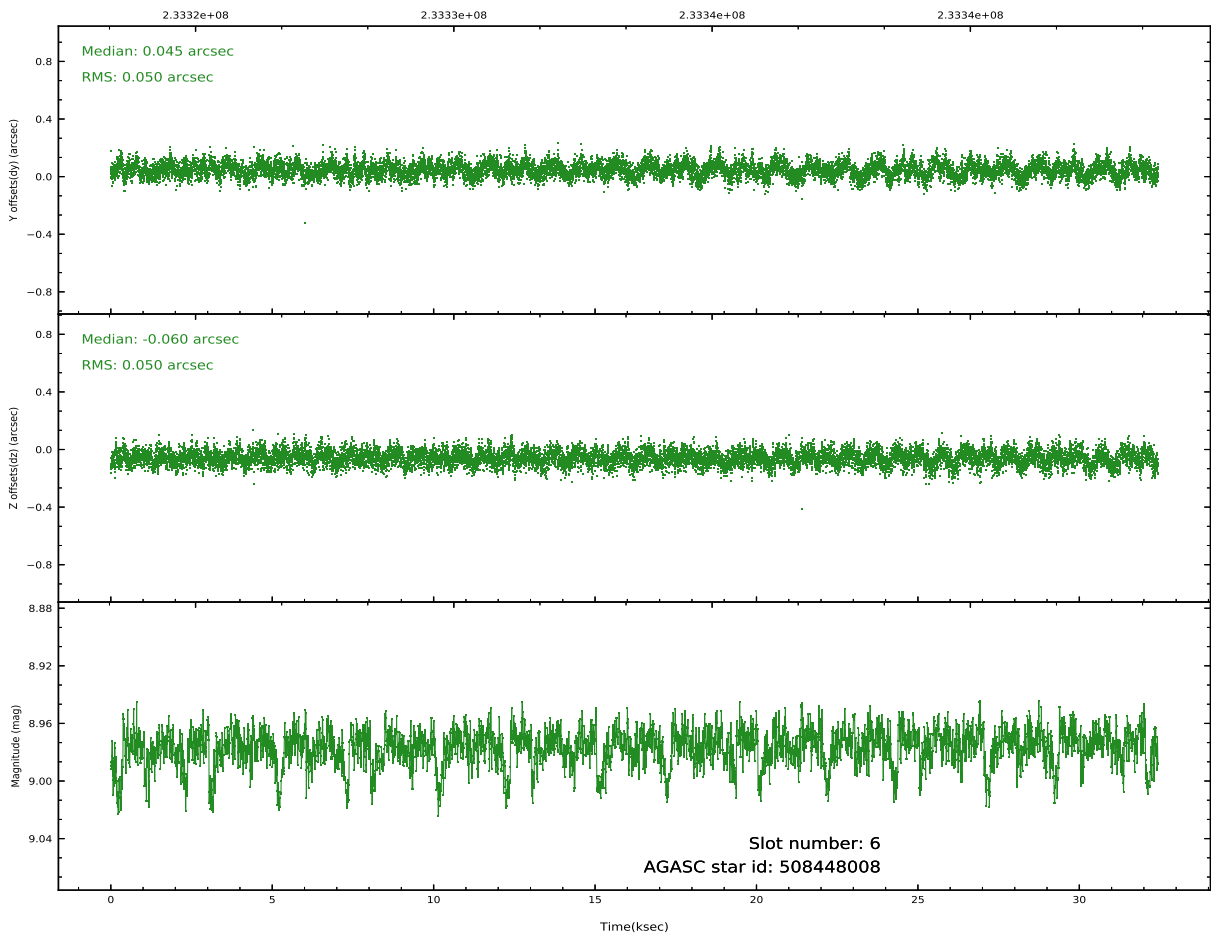
Time (s)



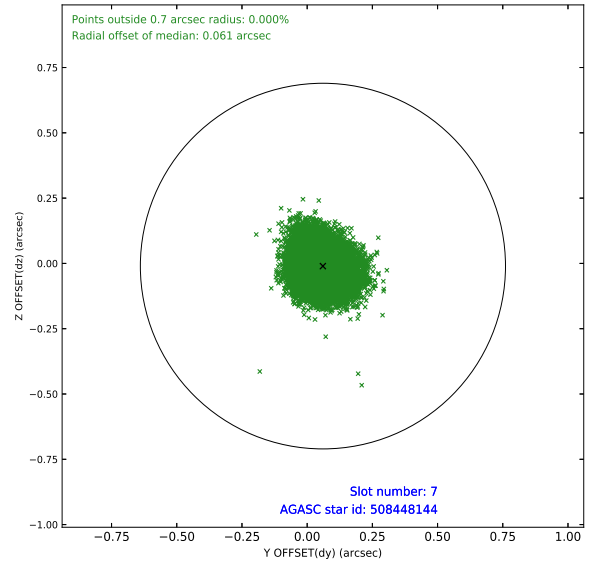
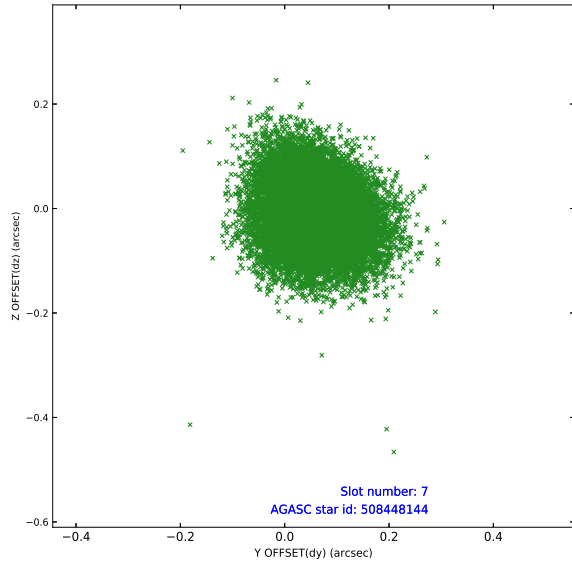
2.4.4 Slot 6



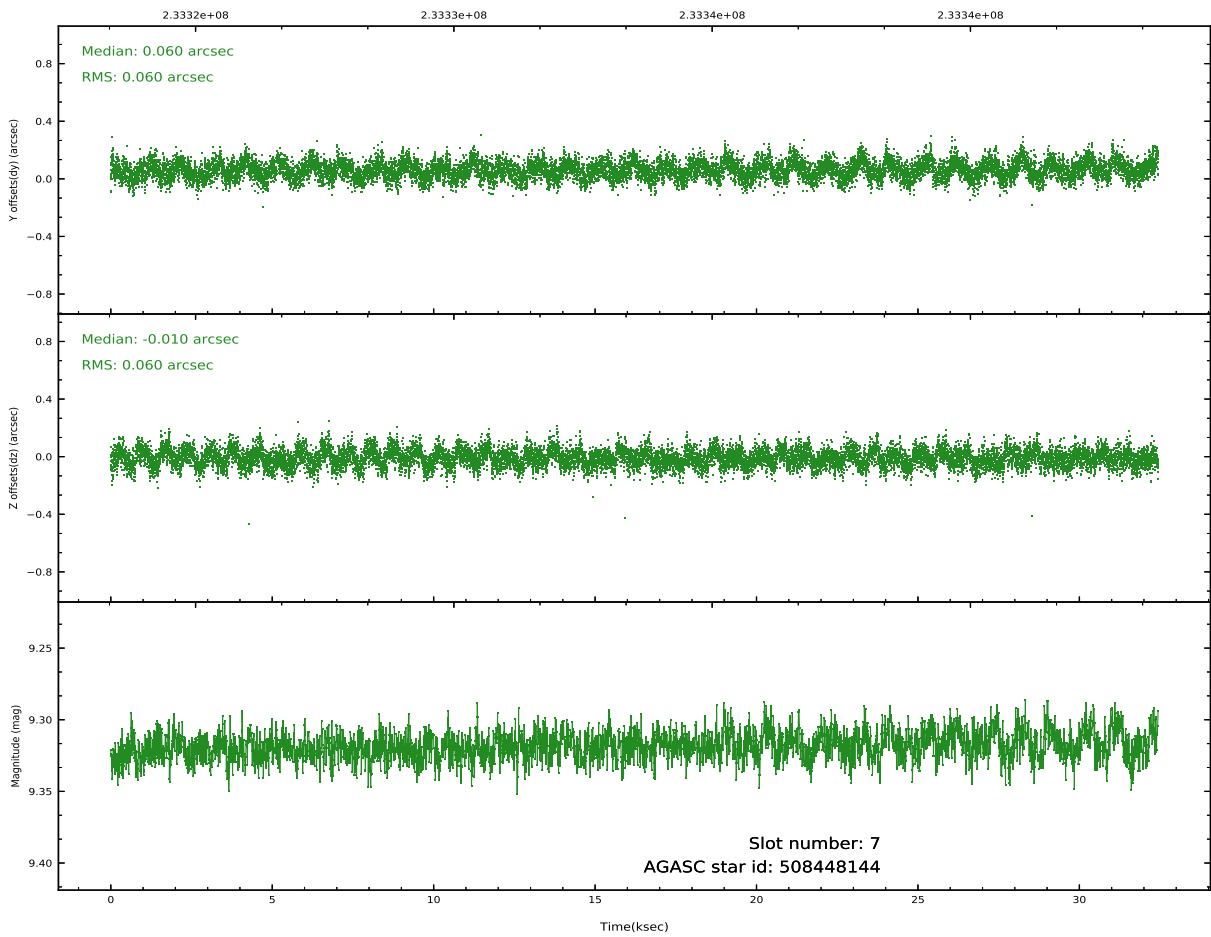
Time (s)



2.4.5 Slot 7

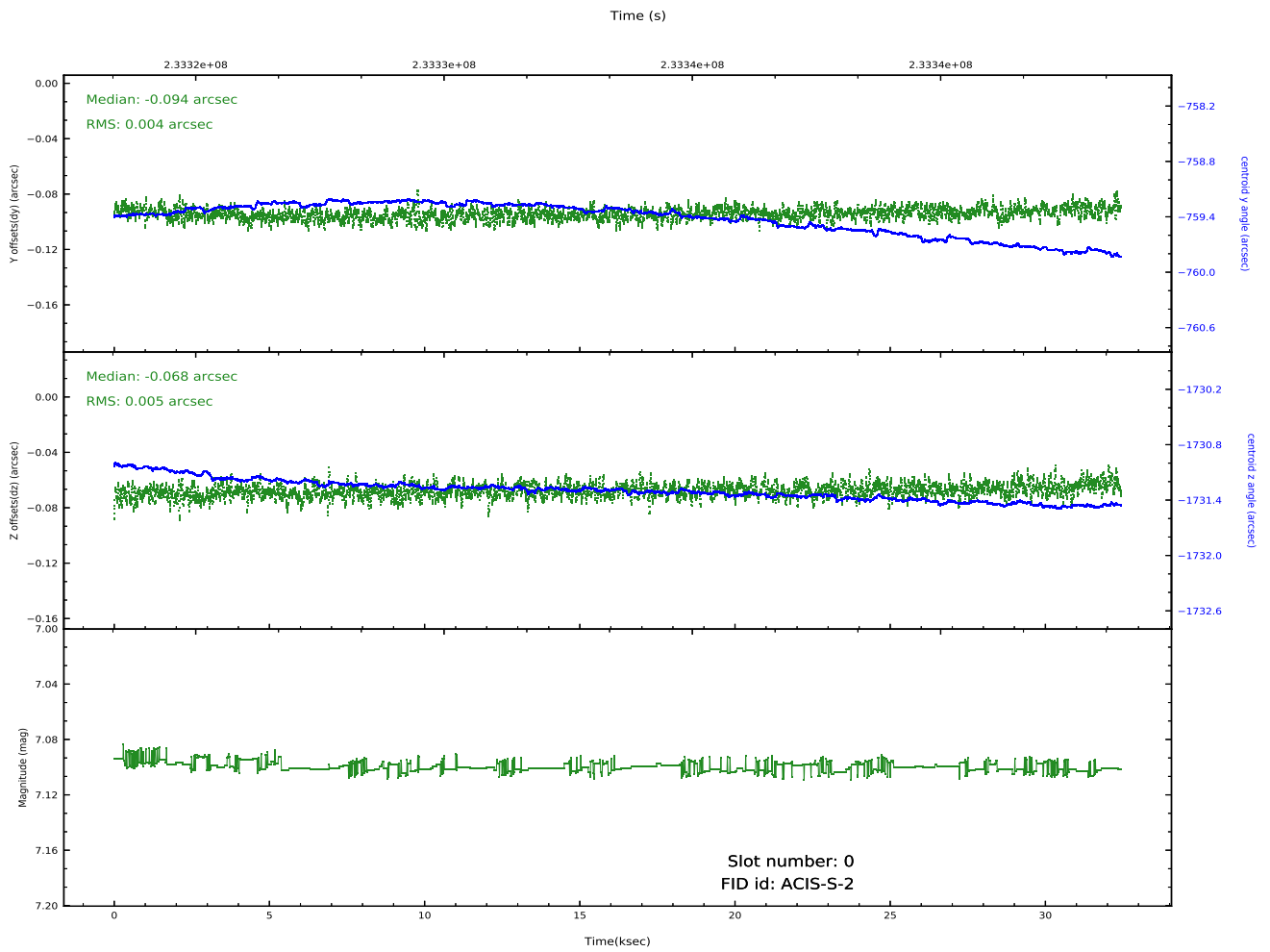
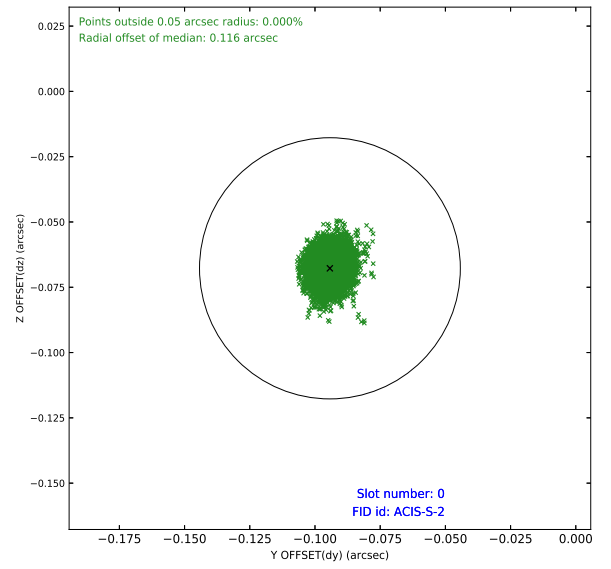
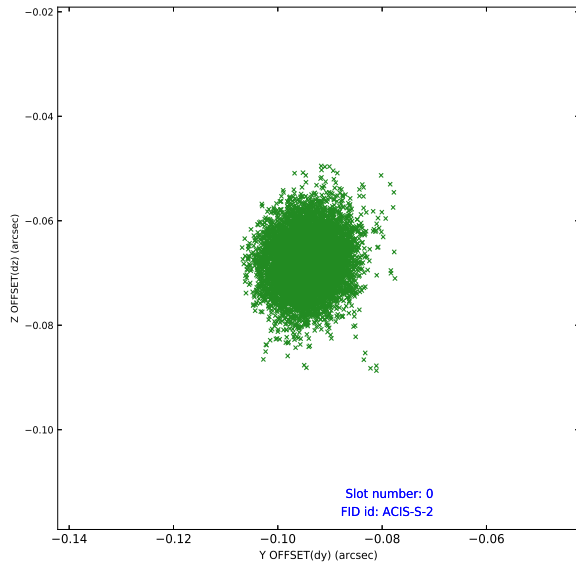


Time (s)

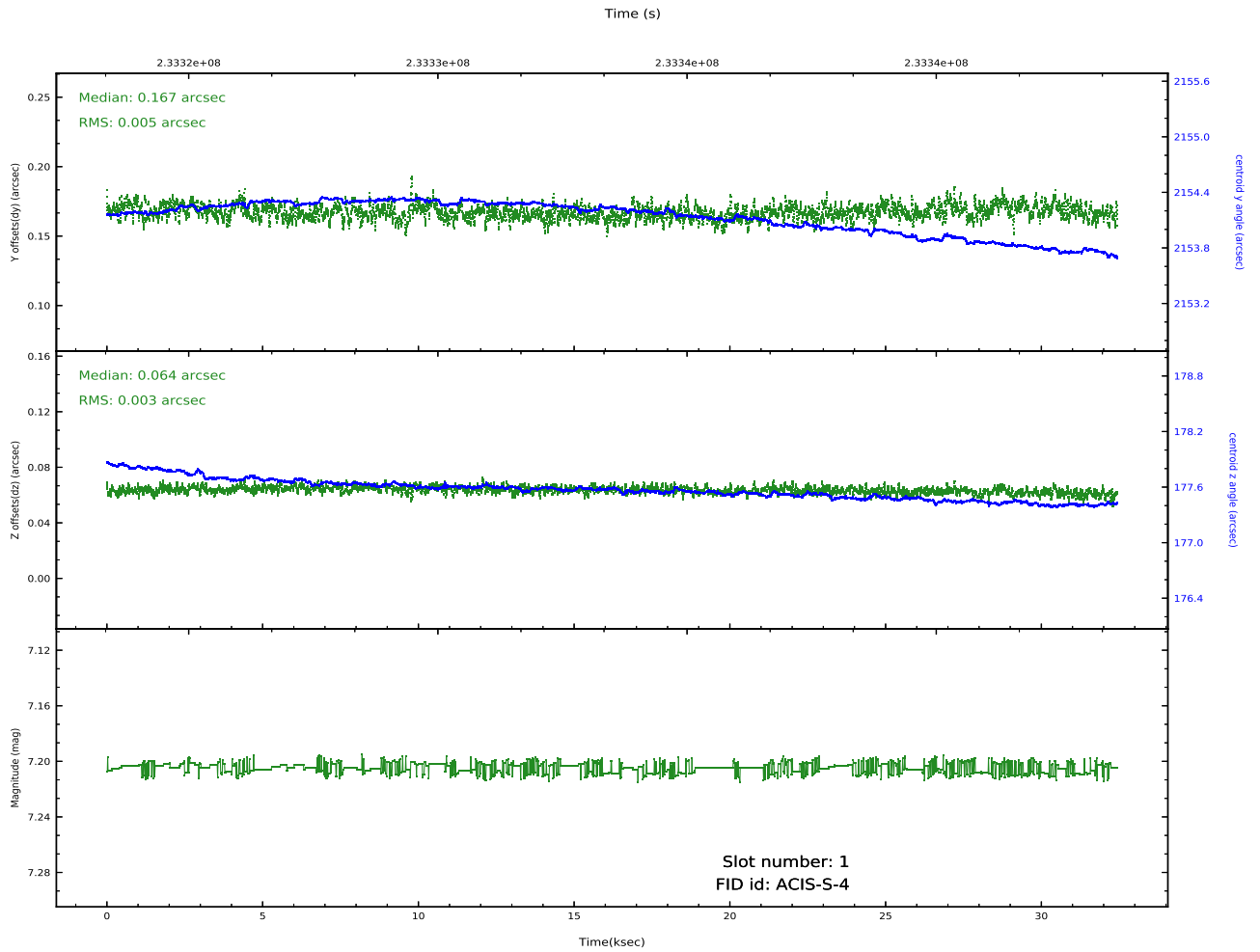
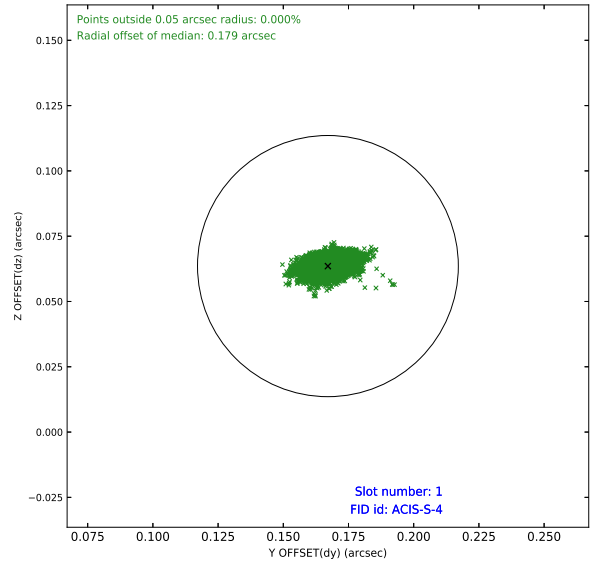
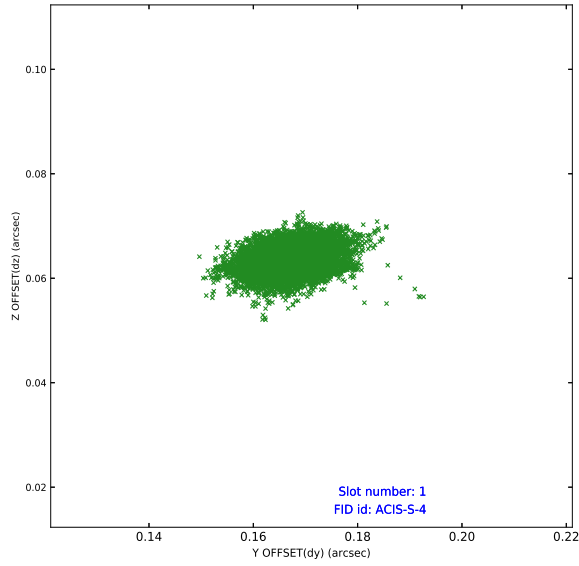


2.5 FID Slots

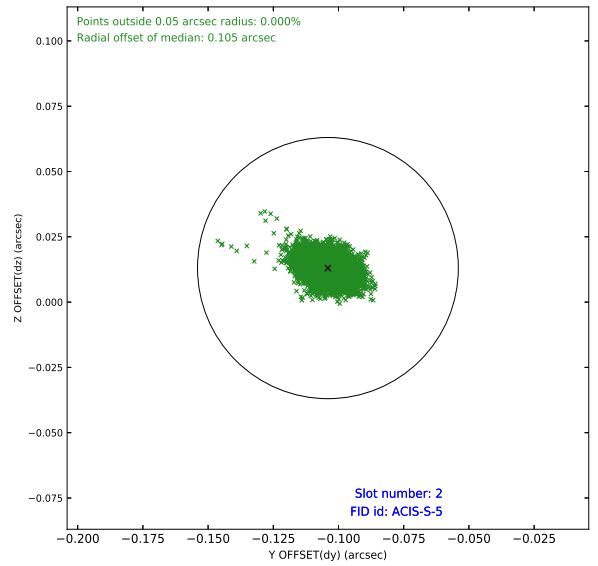
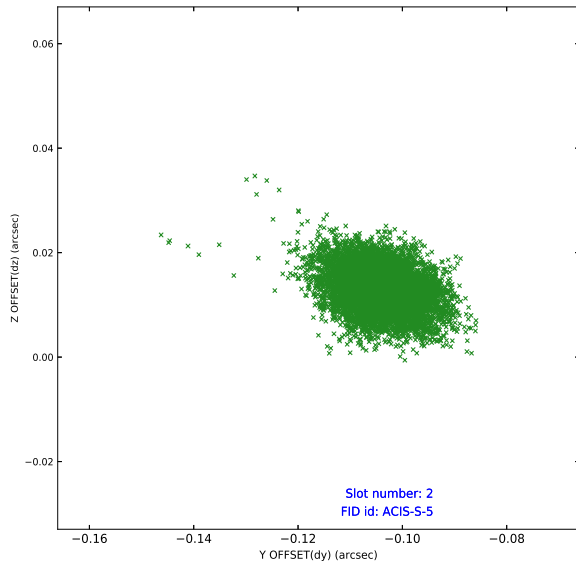
2.5.1 Slot 0



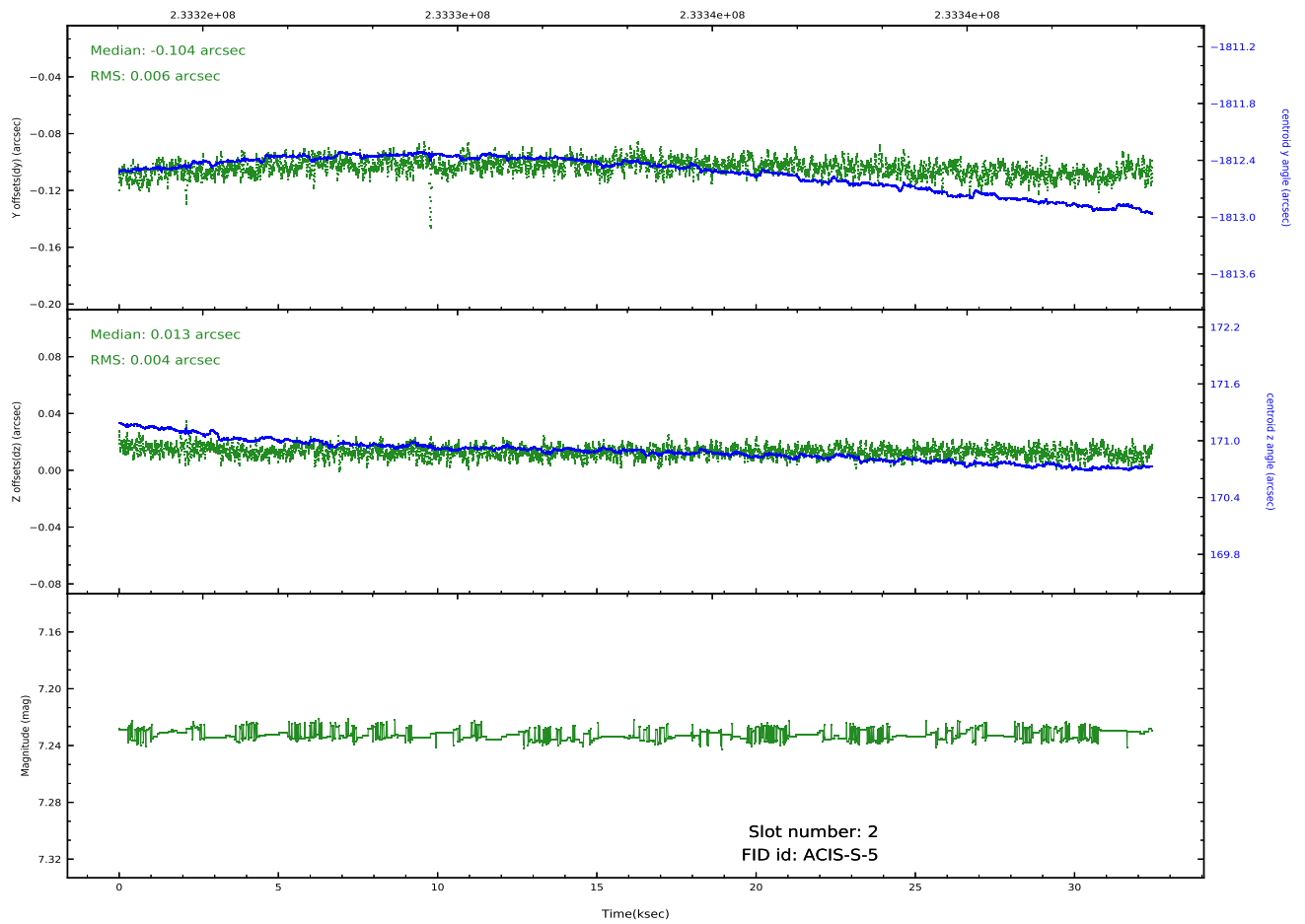
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.23999

A.2 Comments