

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5589 - L2 Version 4
Chandra X-Ray Center

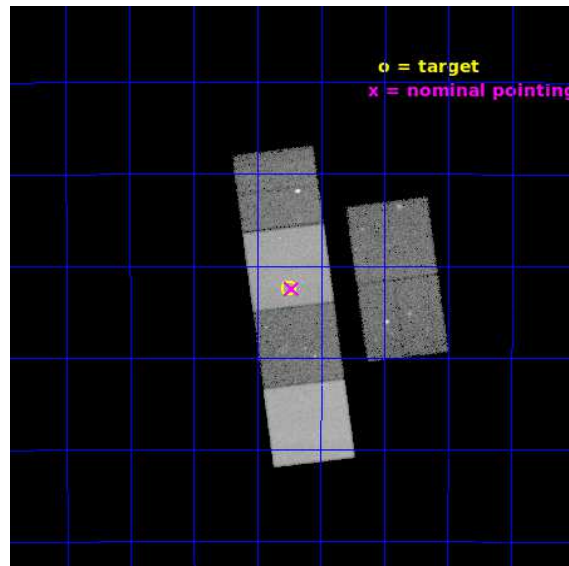
L2 Processing Date : Oct 9 2020

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1 Front

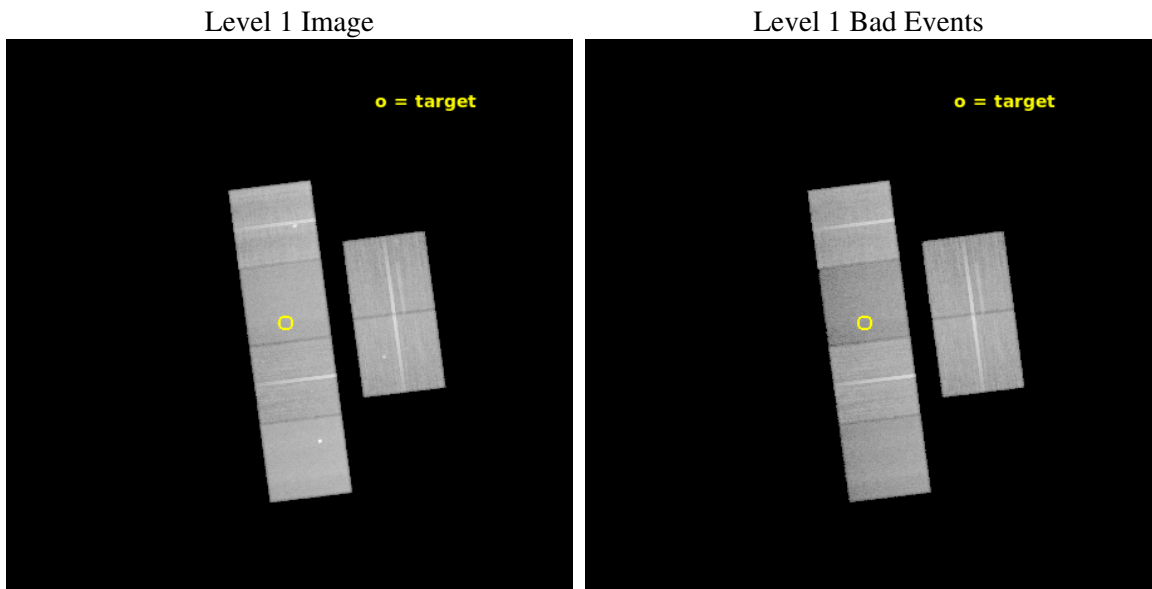
seq_num	500578	Sequence number
obs_id	5589	Observation id
title	A Day in the Life of a Short Gamma-Ray Burst Afterglow	Proposal ti
observer	David Burrows	Principal investigator
object	GRB050724	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	246.1875	Observer's specified target RA [deg]
dec_targ	-27.540333	Observer's specified target Dec [deg]
ra_nom	246.18180795181	Nominal RA [deg]
dec_nom	-27.541476190443	Nominal Dec [deg]
roll_nom	262.65982599234	Nominal Roll [deg]
revision	4	Processing version of data
ontime	45129.599831879	Sum of GTIs [s]
livetime	44558.141665025	Livetime [s]
ontime2	45119.876990706	Sum of GTIs [s]
ontime3	45126.358951211	Sum of GTIs [s]
ontime5	45129.599831879	Sum of GTIs [s]
ontime6	45123.117871374	Sum of GTIs [s]
ontime7	45129.599831879	Sum of GTIs [s]
ontime8	45129.599831879	Sum of GTIs [s]
l2events	360398	Number of level 2 events



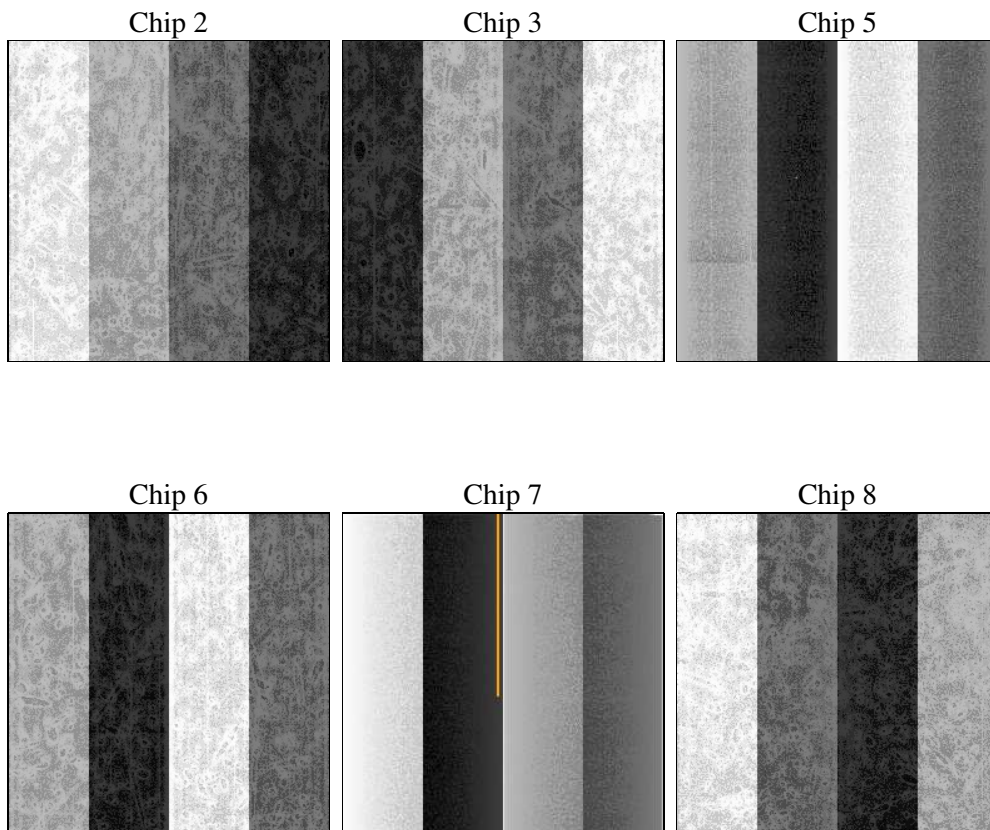
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	45129.599831879	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	45119.876990706	Sum of GTIs [s]
date	2020-10-09T20:06:42	Date and time of file creation	ontime3	45126.358951211	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	45129.599831879	Sum of GTIs [s]
			ontime6	45123.117871374	Sum of GTIs [s]
			ontime7	45129.599831879	Sum of GTIs [s]
			ontime8	45129.599831879	Sum of GTIs [s]
			l1events	1724655	Number of level 1 events

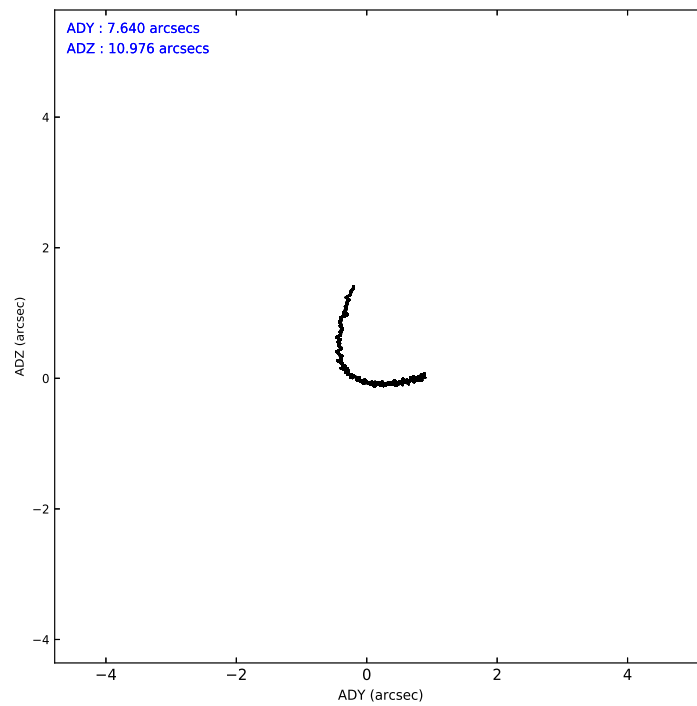
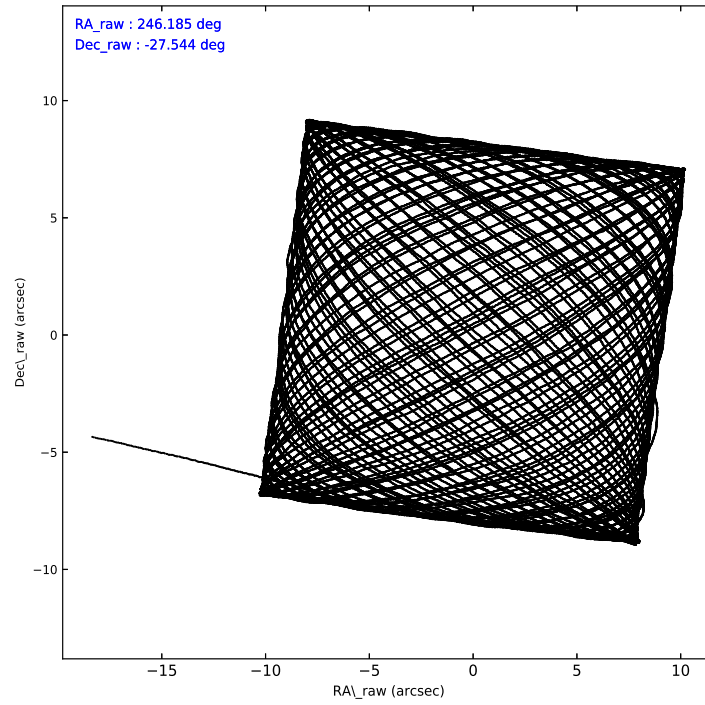
2.1.4 Events

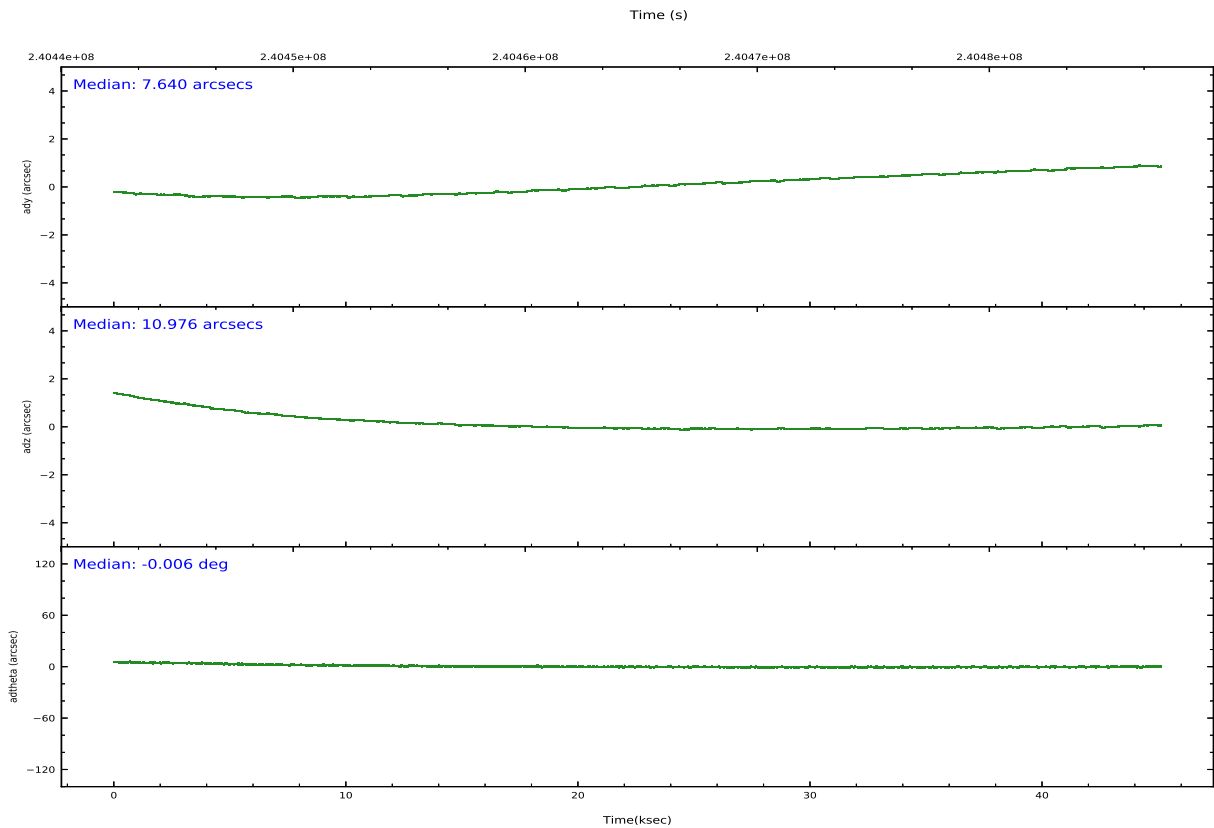
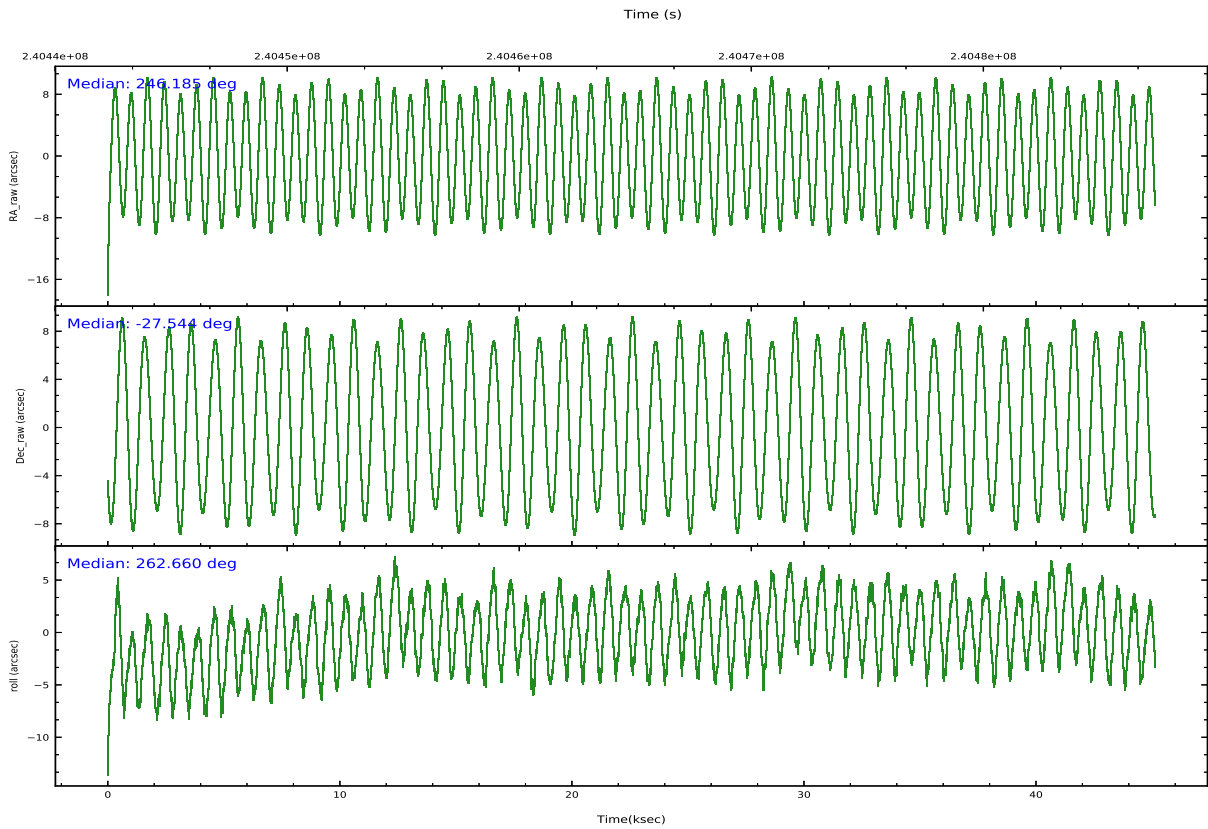
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	288170	256227	323203	273207	255145	328703	grade 0 events	10816	9809	16138	11090	11653	20321
rejected events	261780	231585	164163	245364	137254	254868		3%	3%	4%	4%	4%	6%
rejected %	90%	90%	50%	89%	53%	77%	grade 1 events	144	161	243	136	230	214
								0%	0%	0%	0%	0%	0%
							grade 2 events	6321	5282	46650	6132	23952	18374
								2%	2%	14%	2%	9%	5%
							grade 3 events	2841	2909	7104	3139	11414	8691
								0%	1%	2%	1%	4%	2%
							grade 4 events	2818	2772	6946	2986	11240	7936
								0%	1%	2%	1%	4%	2%
							grade 5 events	7693	9007	28048	9439	28492	14518
								2%	3%	8%	3%	11%	4%
							grade 6 events	4533	4739	88130	5496	63945	21136
								1%	1%	27%	2%	25%	6%
							grade 7 events	253004	221548	129944	234789	104219	237513
								87%	86%	40%	85%	40%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	246.172834	246.18180795181	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.519119	-27.541476190443	Alternating exposures requested	N	N
[deg] Pointing Roll	262.496878	262.65982599234	[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)	240442403.184000	240440380.22447			
Observation start date	2005-08-14T21:32:19	2005-08-14T20:59:40			
[s] Observation end time (MET)	240487403.184000	240488132.92666			
Observation end date	2005-08-15T10:02:19	2005-08-15T10:15:32			
Read mode	TIMED	TIMED			

2.3 Aspect





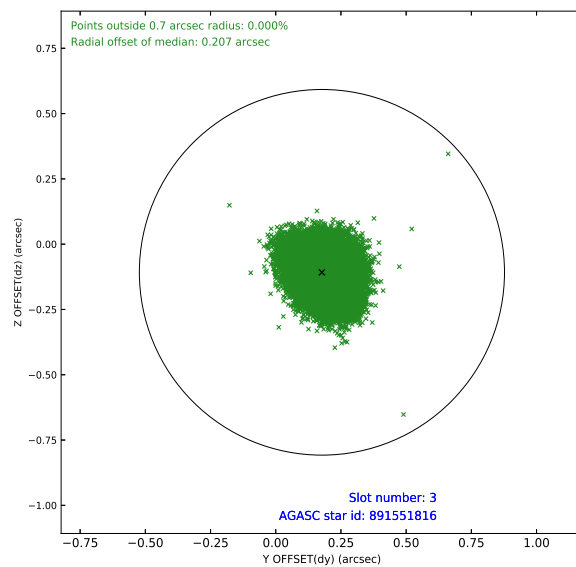
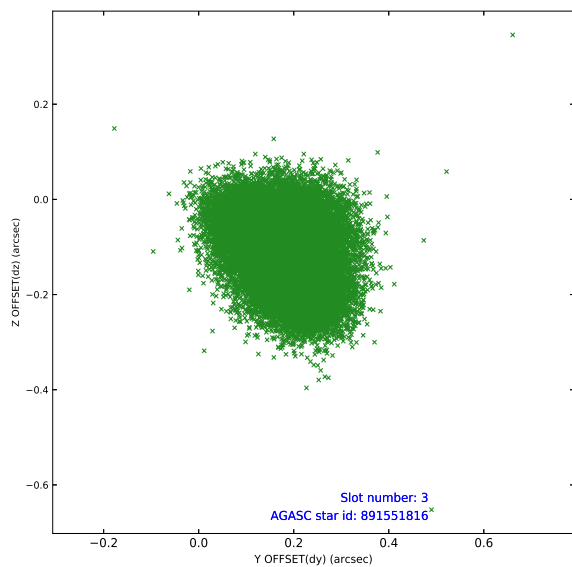
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	11009	1.000	-0.072	-0.055	0.009	0.019	0.000000	0.000000	-760.51	-1732
1	FID		ACIS-S-4	7.21	11007	1.000	0.161	0.049	0.020	0.035	0.000000	0.000000	2152.94	176
2	FID		ACIS-S-5	7.23	11008	1.000	-0.120	0.014	0.022	0.040	0.000000	0.000000	-1813.47	169
3	GUIDE	used	891551816	9.17	21949	1.000	0.177	-0.108	0.114	0.169	246.153106	-27.968763	1613.46	149
4	GUIDE	used	891553136	9.21	21995	1.000	0.055	0.055	0.082	0.132	246.454955	-27.819225	955.32	1031
5	GUIDE	used	891560800	7.92	22011	1.000	-0.035	-0.111	0.067	0.109	246.296971	-27.667531	478.63	462
6	GUIDE	used	891561680	7.79	22016	1.000	-0.133	0.003	0.095	0.140	246.126760	-27.151147	-1293.78	-319
7	GUIDE	used	891552176	8.99	22004	1.000	-0.059	0.173	0.087	0.139	246.804004	-27.854109	938.30	2150

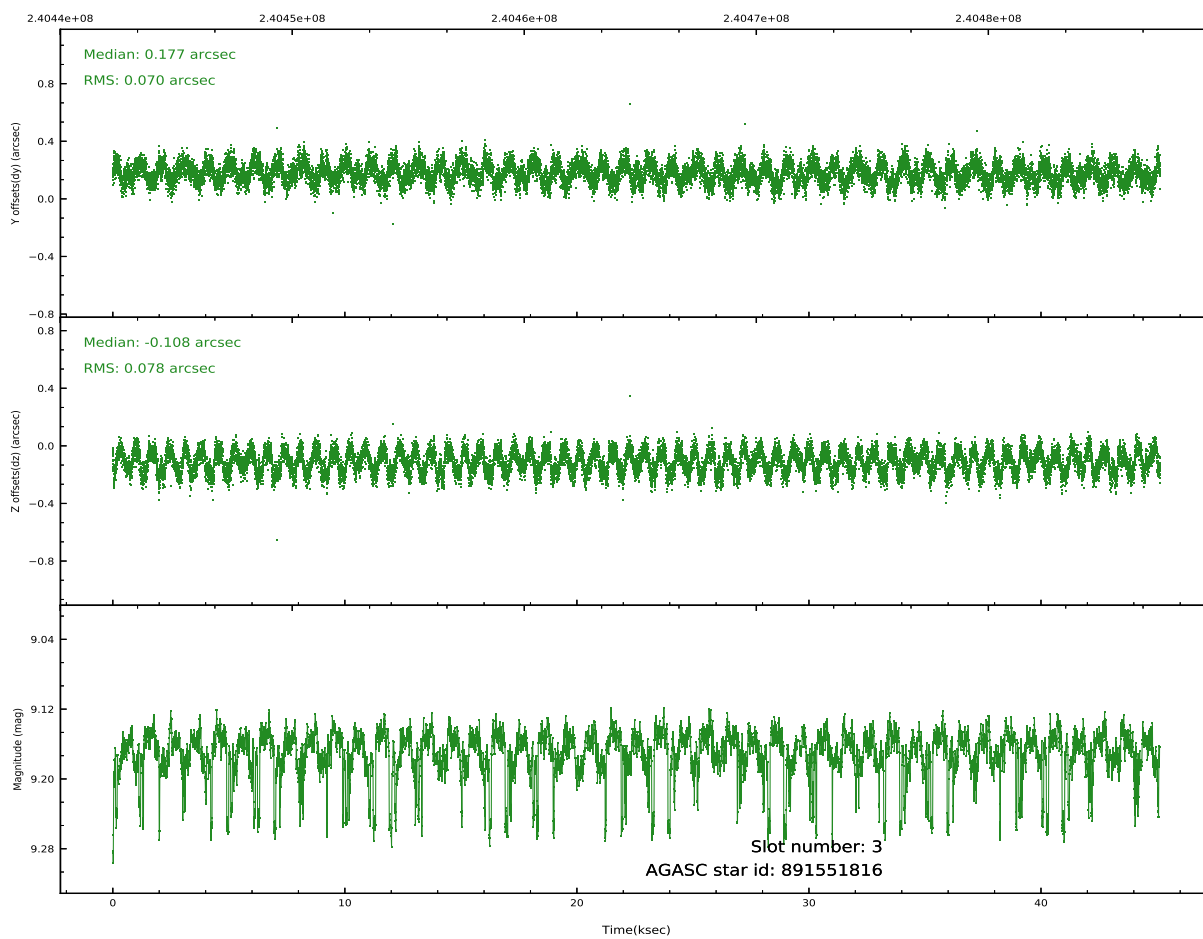
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2.4 Star Slots

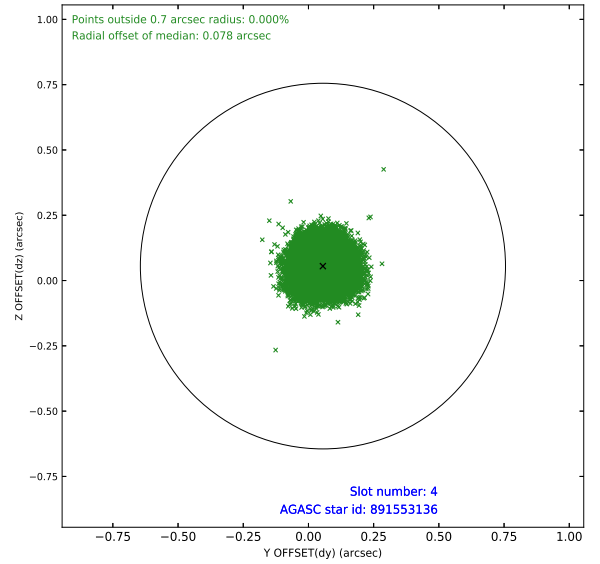
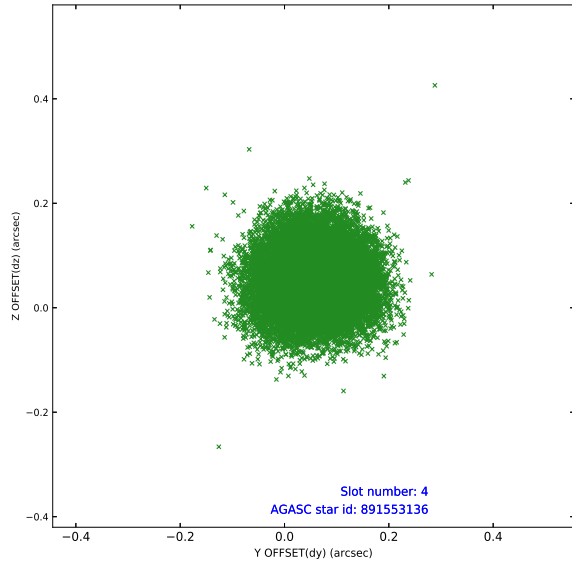
2.4.1 Slot 3



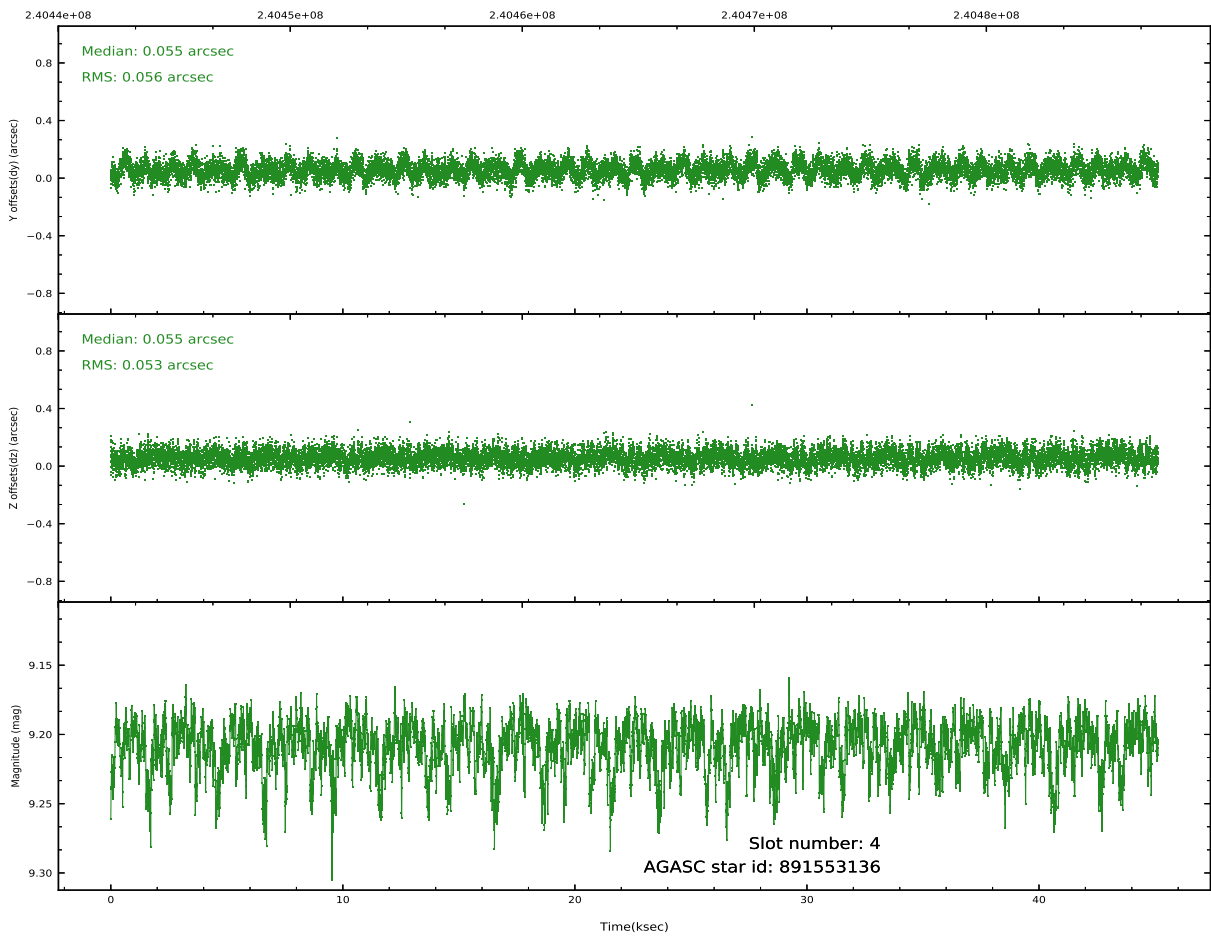
Time (s)



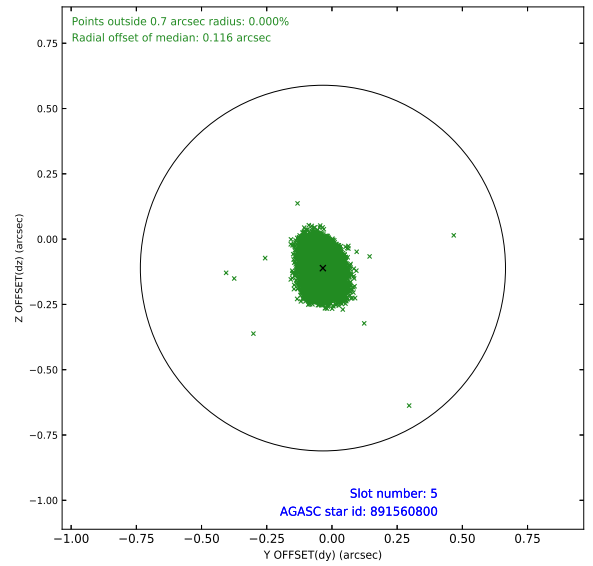
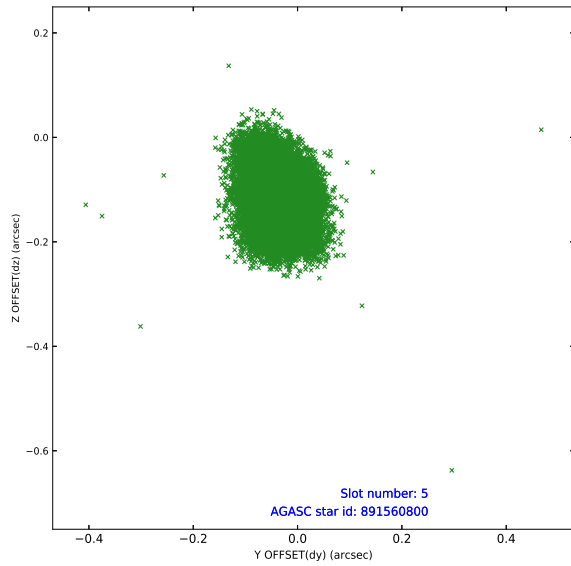
2.4.2 Slot 4



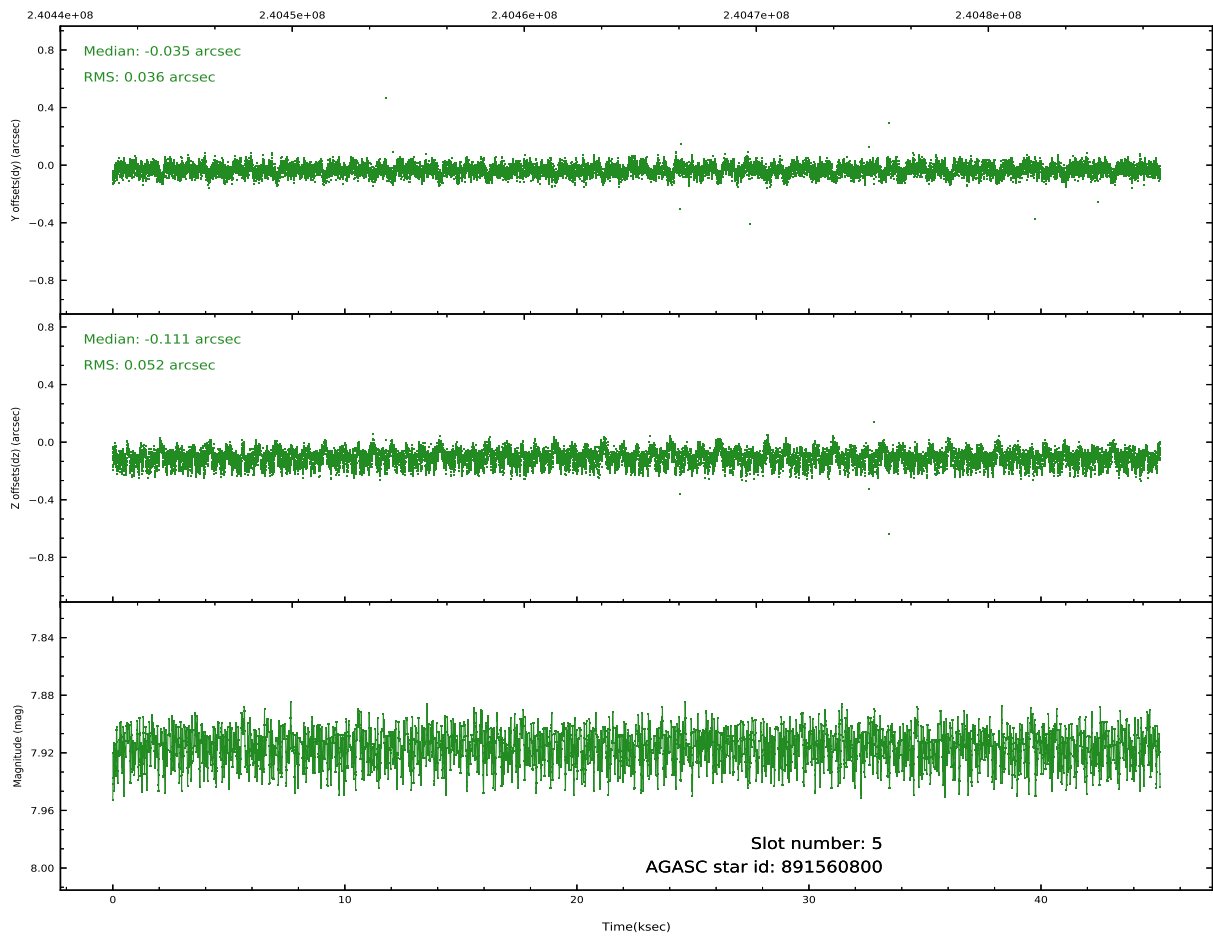
Time (s)



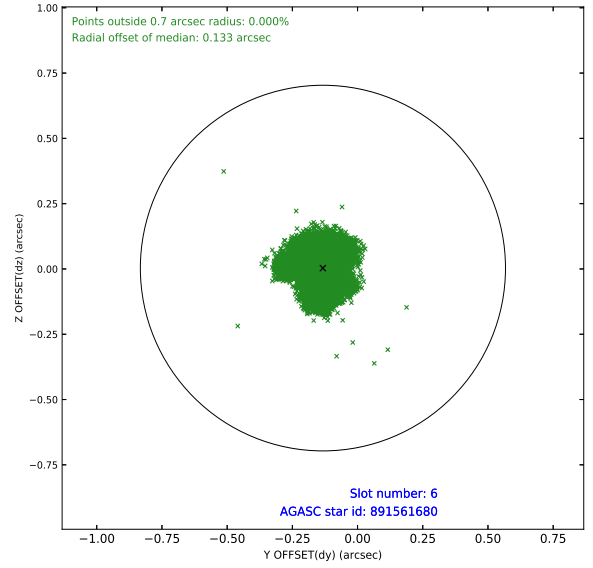
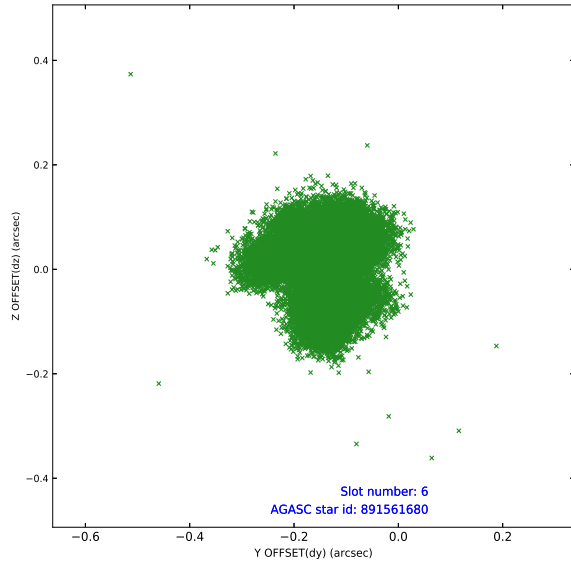
2.4.3 Slot 5



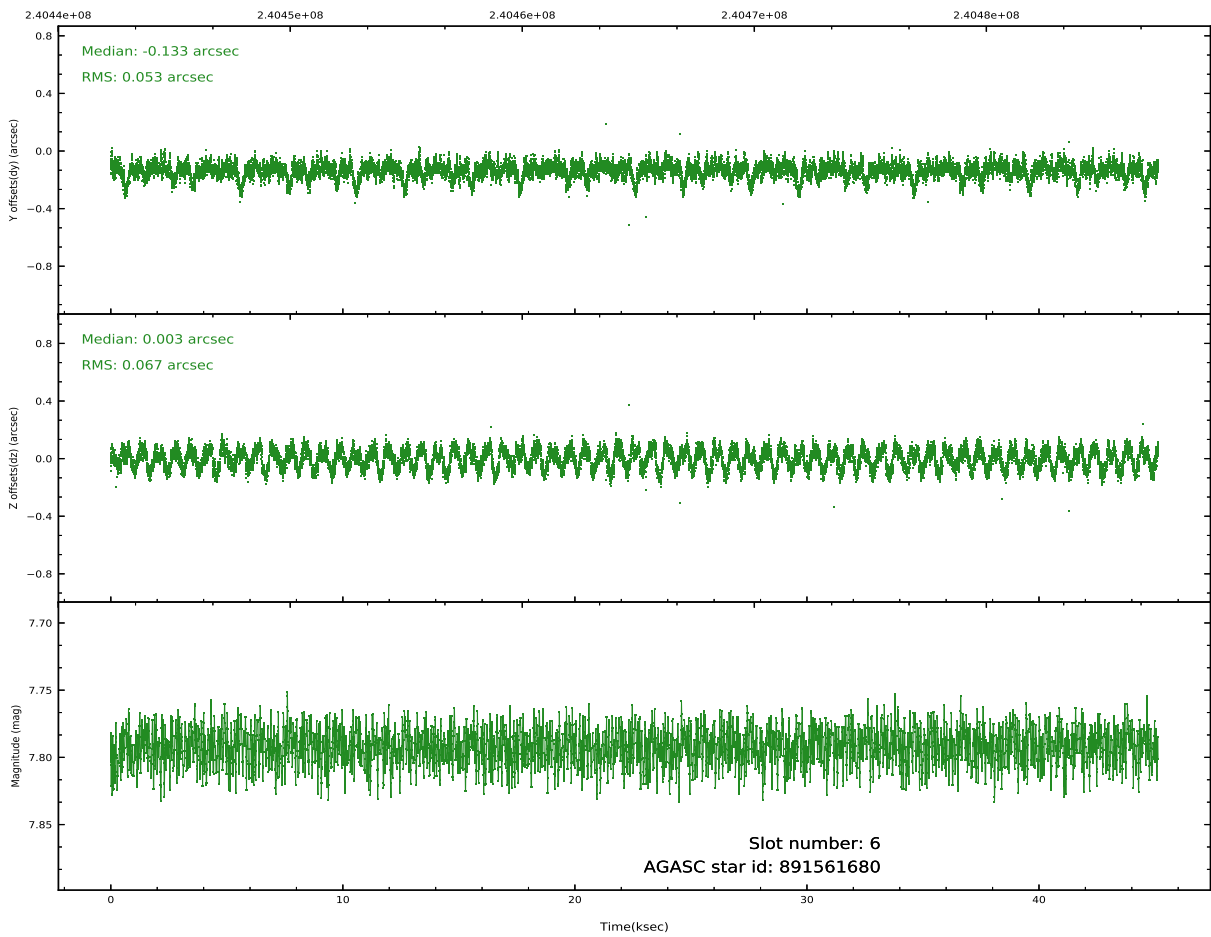
Time (s)



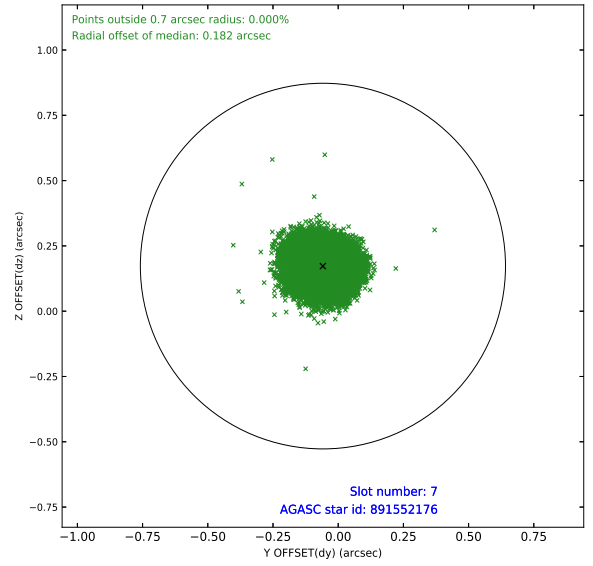
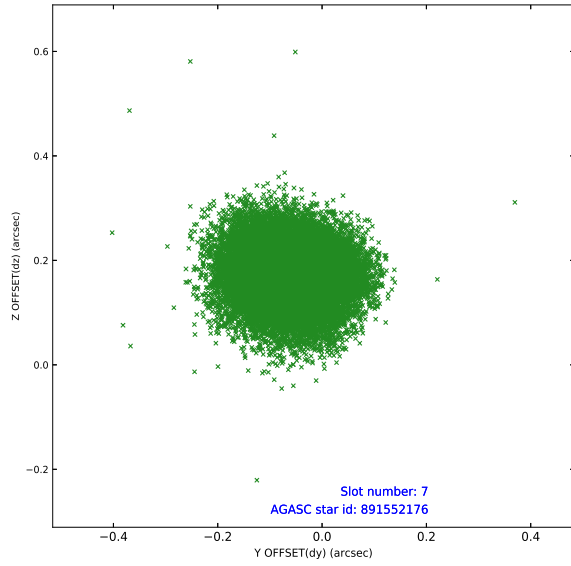
2.4.4 Slot 6



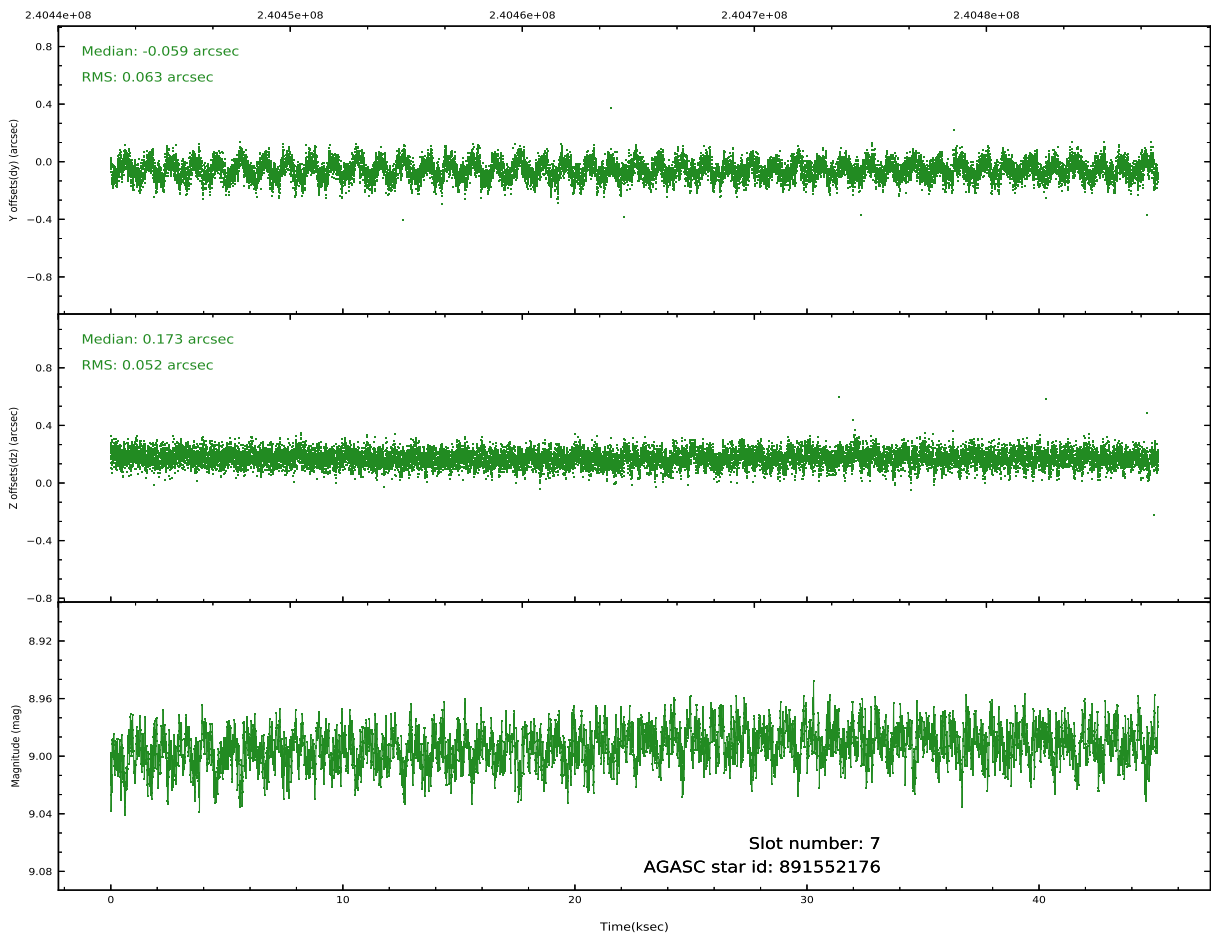
Time (s)



2.4.5 Slot 7

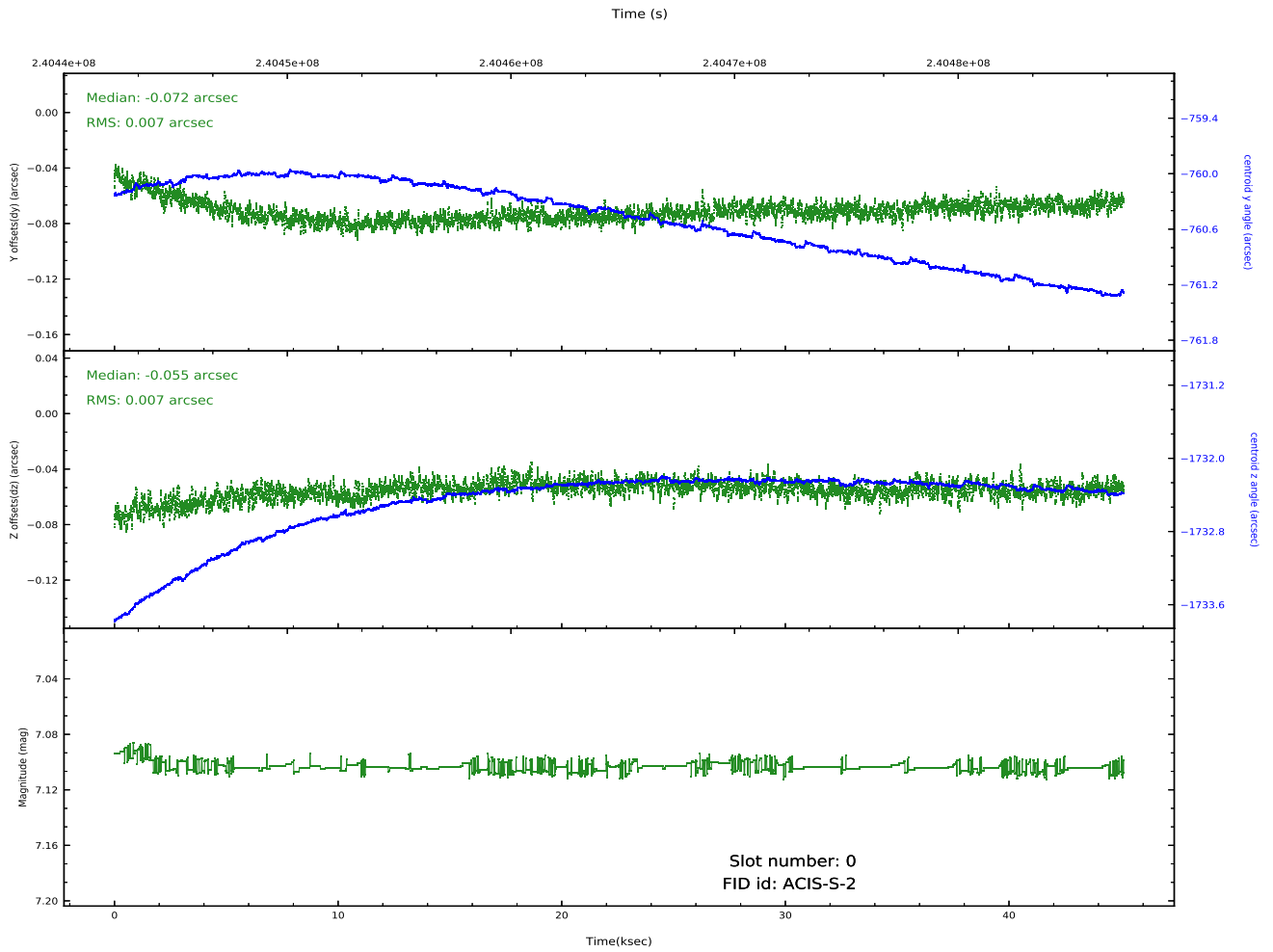
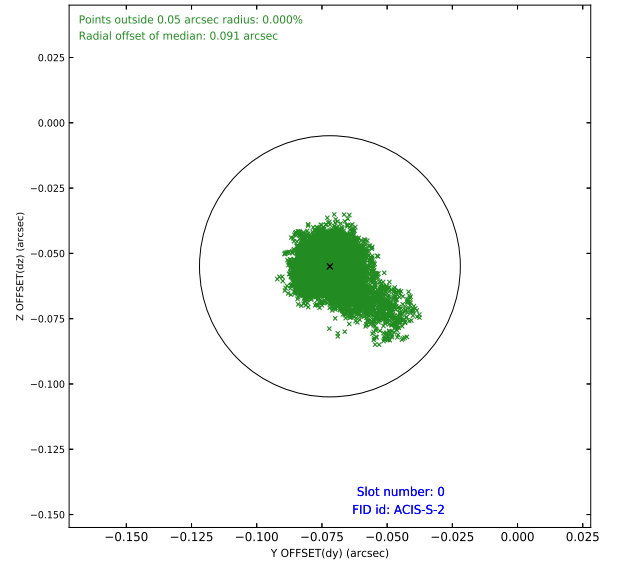
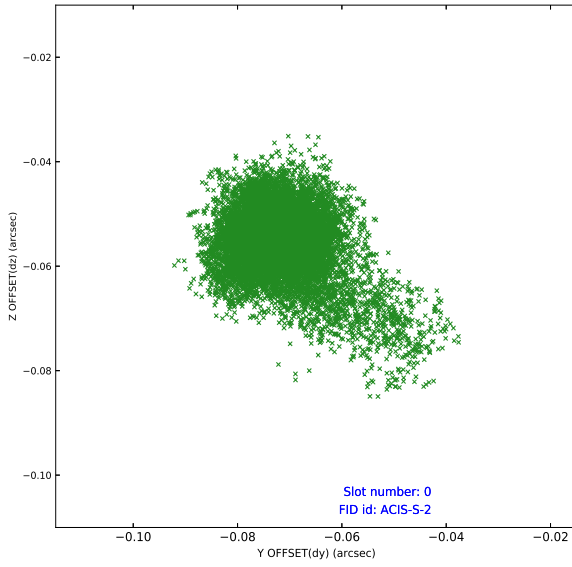


Time (s)

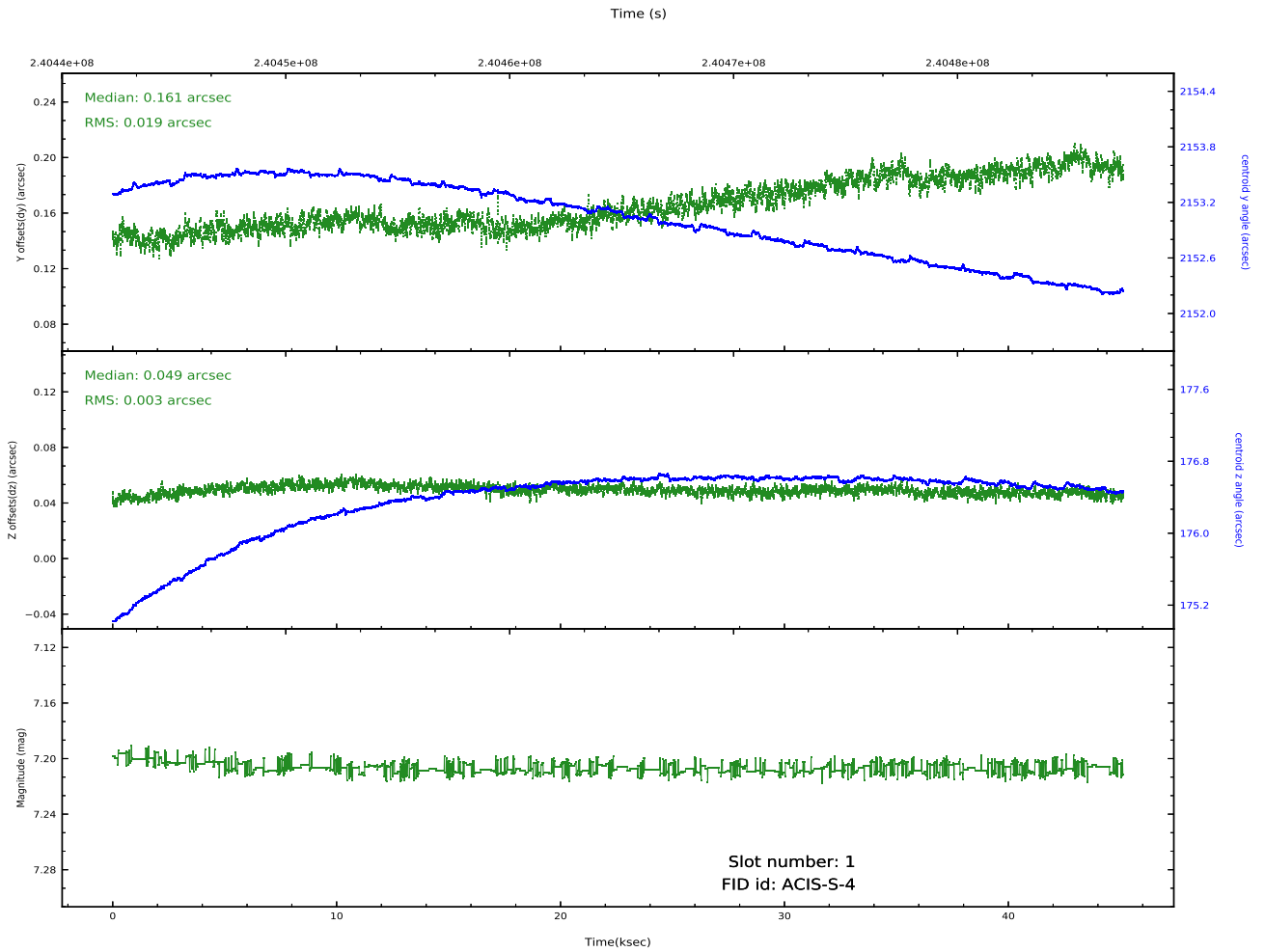
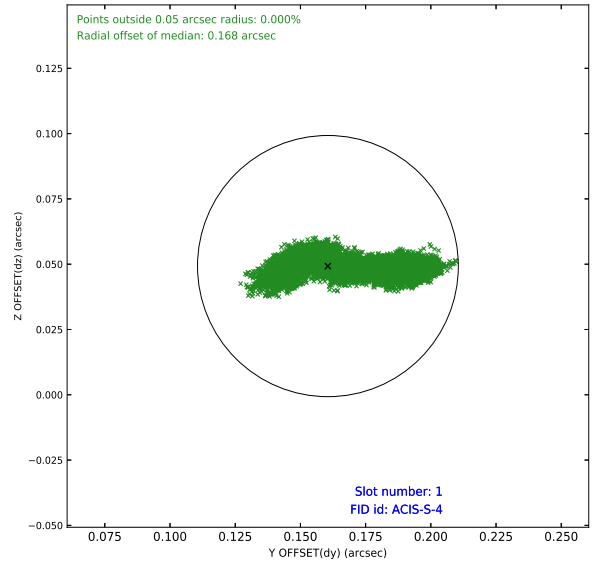
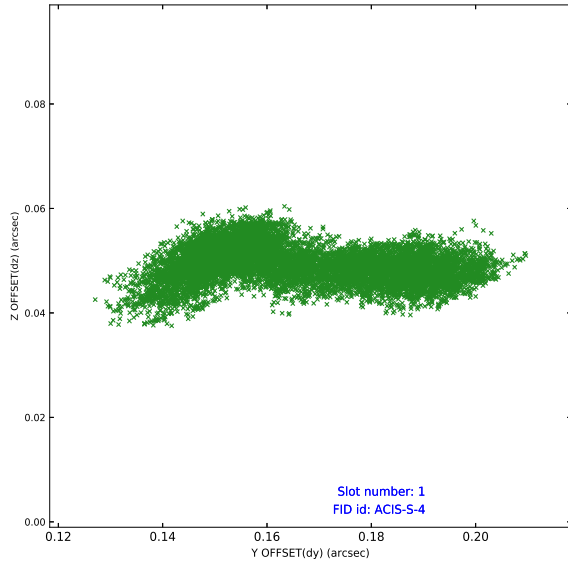


2.5 FID Slots

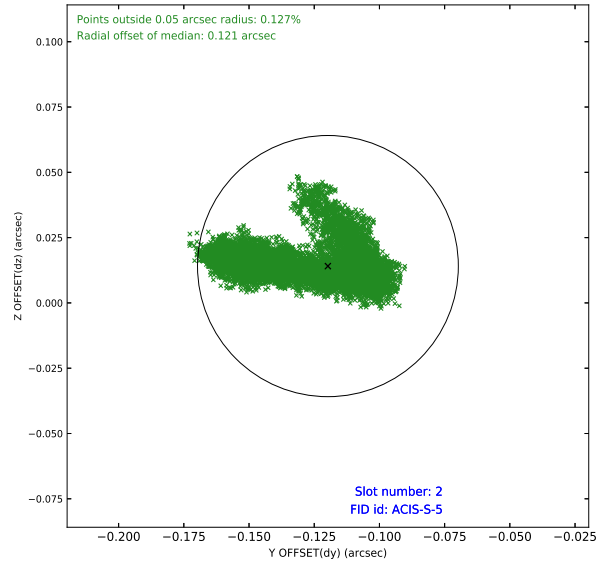
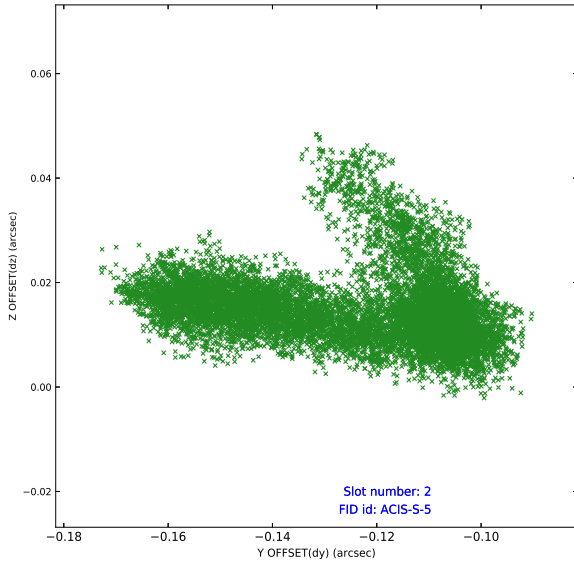
2.5.1 Slot 0



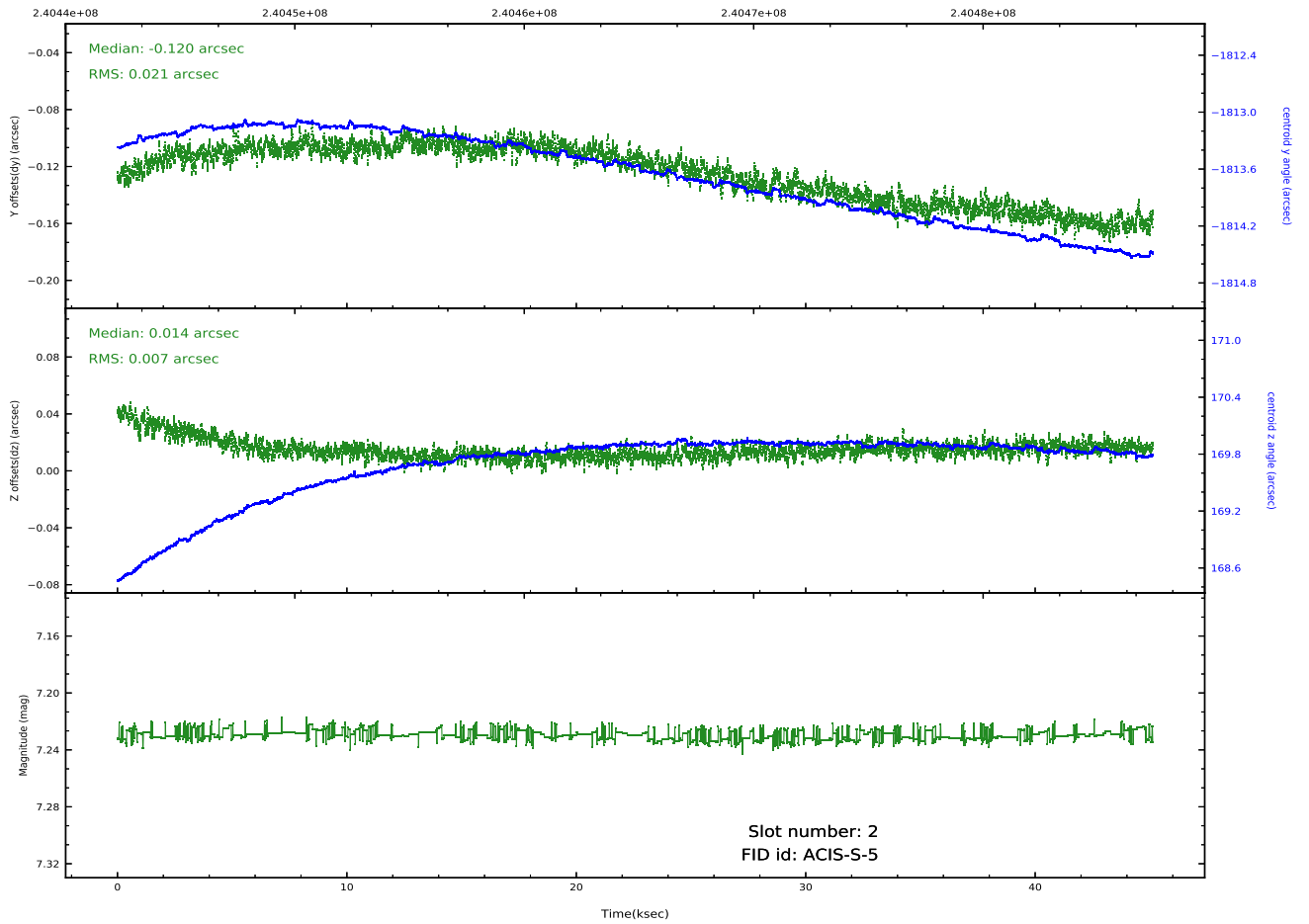
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.1296

A.2 Comments

Followup observation to T00; does not meet window constraint of 12-16 days after first observation. This observation is 19 days after the first observation.