

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4664 - L2 Version 4
Chandra X-Ray Center

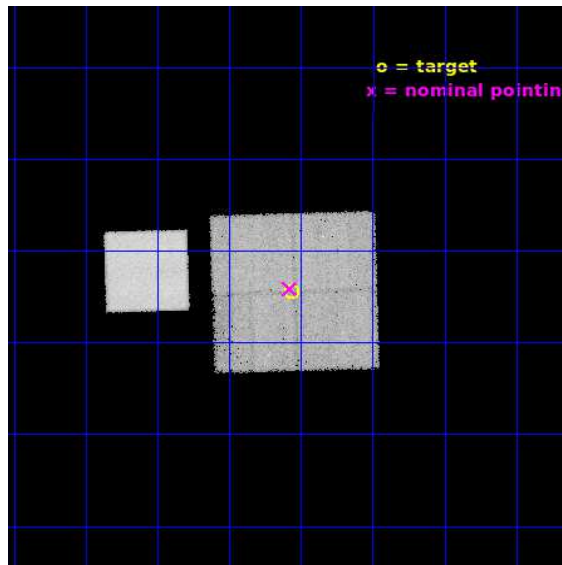
L2 Processing Date : Oct 2 2020

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1 Front

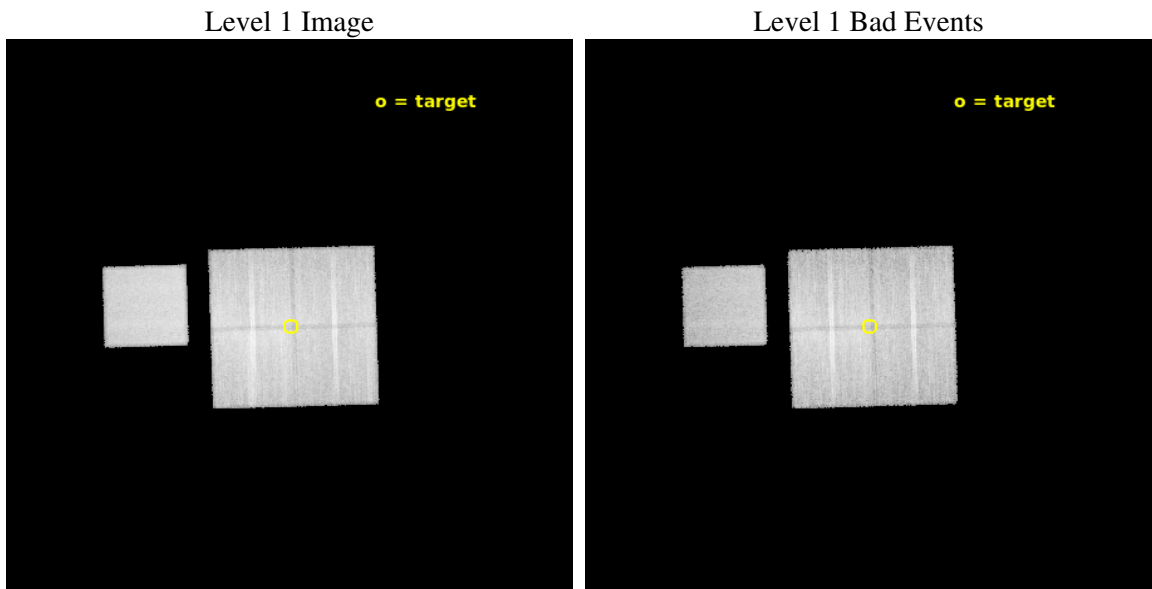
seq_num	500483	Sequence number
obs_id	4664	Observation id
title	The Energetics and Host Galaxies of X-Ray Flashes	Proposal title
observer	Prof. Derek Fox	Principal investigator
object	XRF040825	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	341.640417	Observer's specified target RA [deg]
dec_targ	-2.407917	Observer's specified target Dec [deg]
ra_nom	341.64440166635	Nominal RA [deg]
dec_nom	-2.4021986791984	Nominal Dec [deg]
roll_nom	268.35556022311	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18172.15898478	Sum of GTIs [s]
livetime	17934.726349495	Livetime [s]
ontime0	18172.159004778	Sum of GTIs [s]
ontime1	18172.15898478	Sum of GTIs [s]
ontime2	18172.159004688	Sum of GTIs [s]
ontime3	18172.15898478	Sum of GTIs [s]
ontime7	18175.299965024	Sum of GTIs [s]
l2events	195716	Number of level 2 events



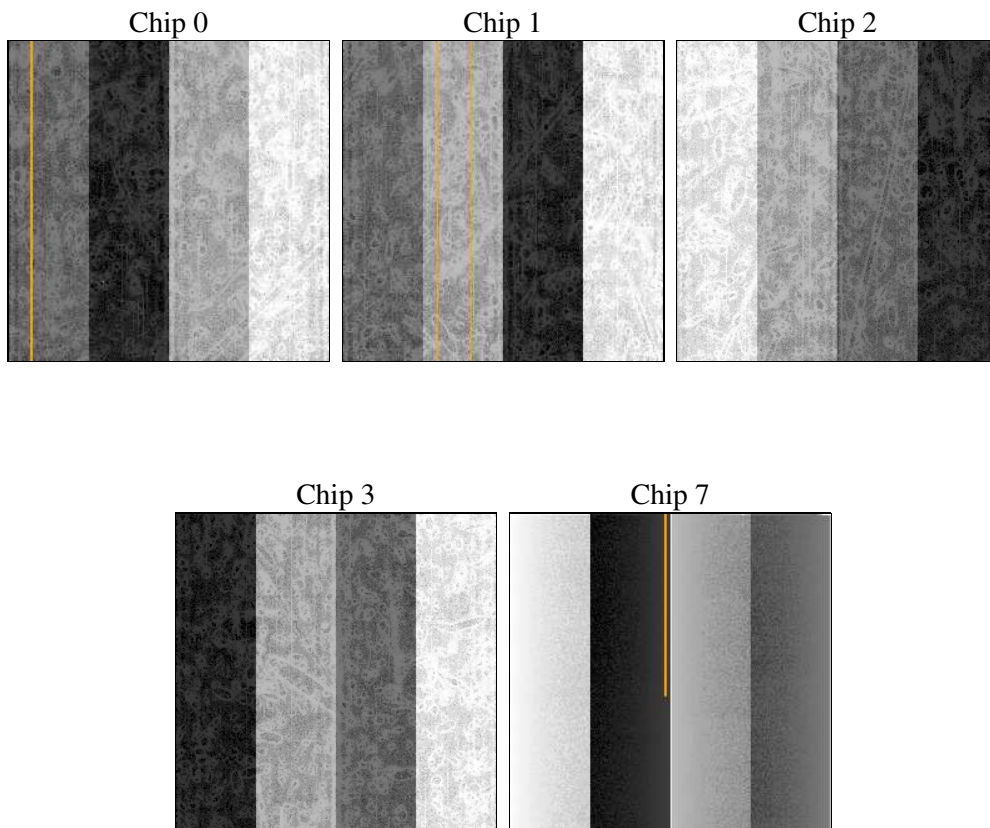
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18172.15898478	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	18172.159004778	Sum of GTIs [s]
date	2020-10-02T07:59:43	Date and time of file creation	ontime1	18172.15898478	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	18172.159004688	Sum of GTIs [s]
			ontime3	18172.15898478	Sum of GTIs [s]
			ontime7	18175.299965024	Sum of GTIs [s]
			l1events	911987	Number of level 1 events

2.1.4 Events

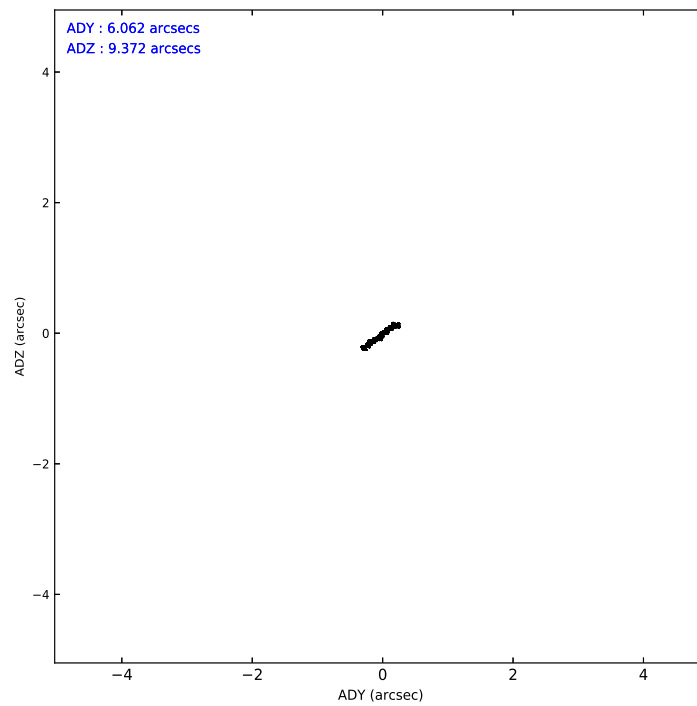
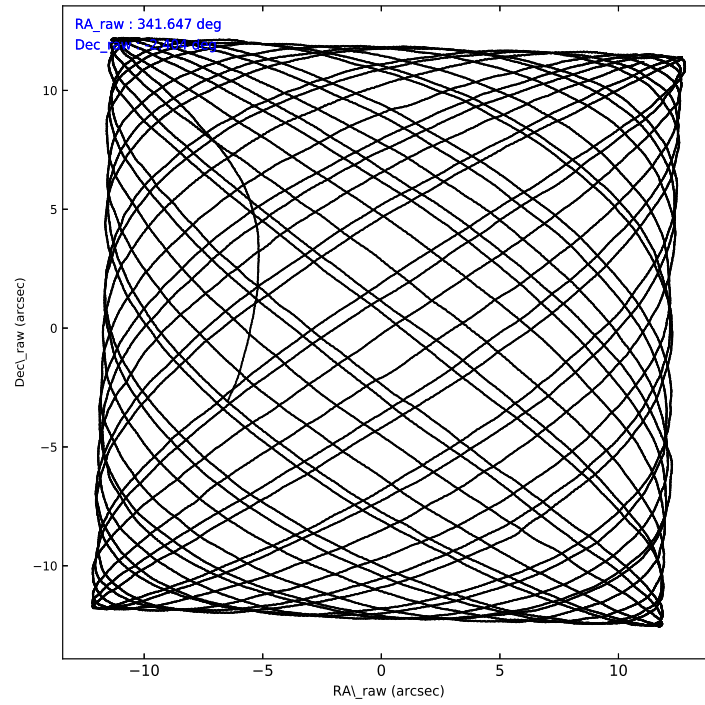
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	160963	172163	200214	185707	192940
rejected events	124960	136859	162688	152721	109844
rejected %	77%	79%	81%	82%	56%

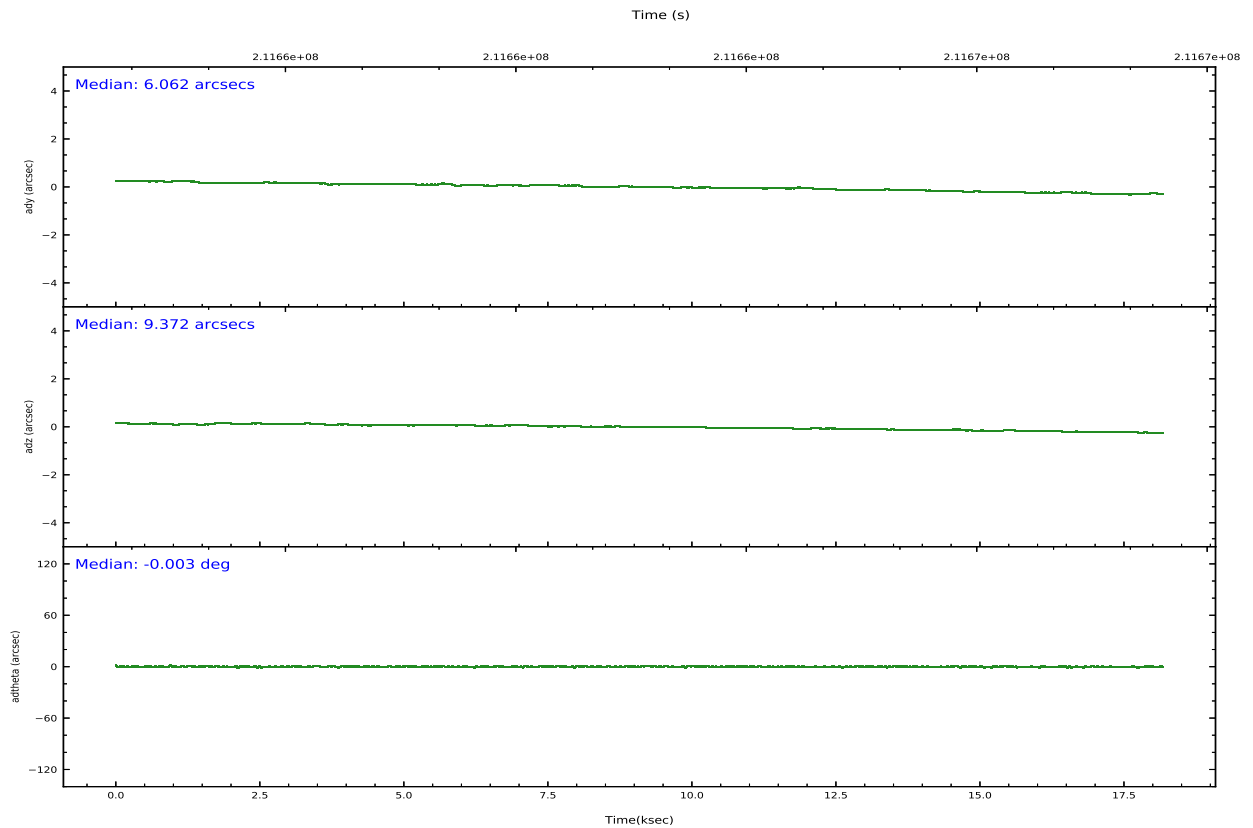
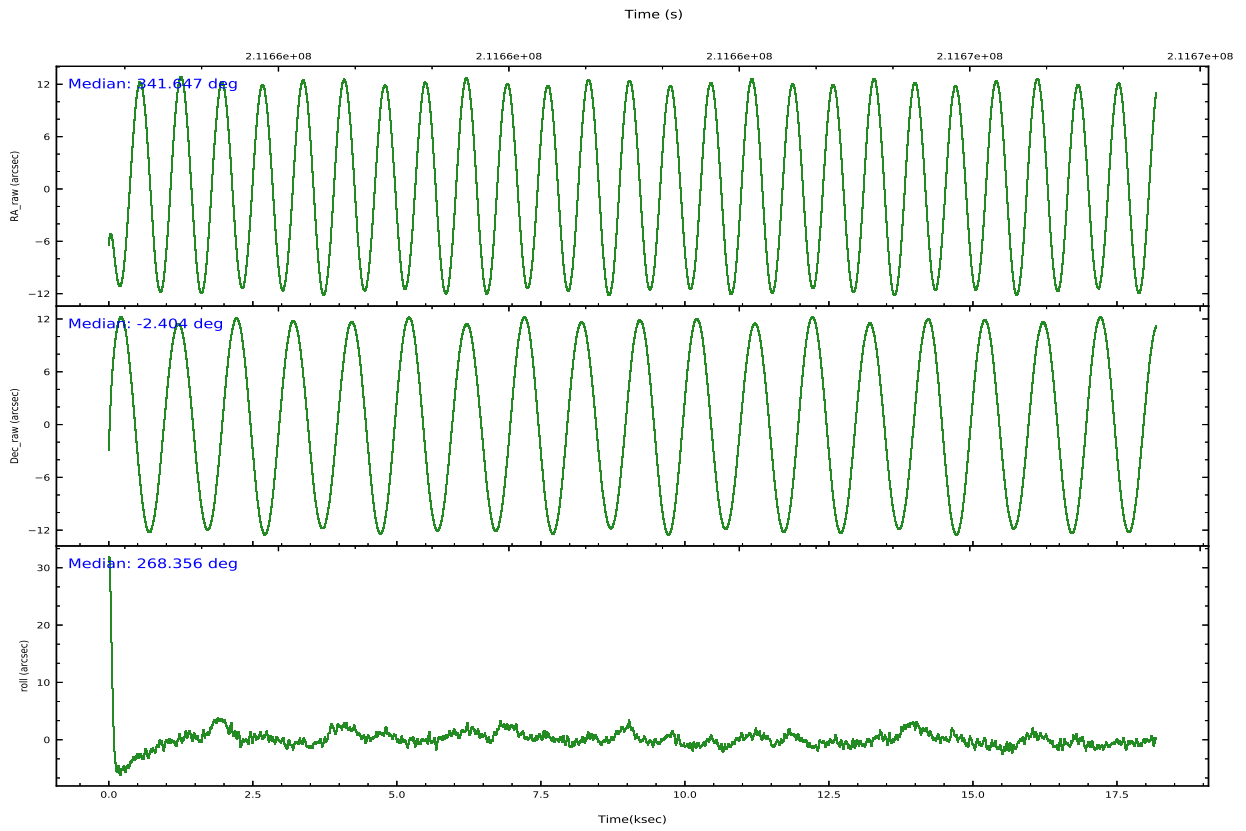
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	14487	11843	16817	12617	7488
	9%	6%	8%	6%	3%
grade 1 events	133	81	164	107	296
	0%	0%	0%	0%	0%
grade 2 events	10977	11790	9817	9989	17842
	6%	6%	4%	5%	9%
grade 3 events	1734	1965	1609	1705	7601
	1%	1%	0%	0%	3%
grade 4 events	1762	1797	2740	1713	7533
	1%	1%	1%	0%	3%
grade 5 events	5287	5478	5061	5759	17647
	3%	3%	2%	3%	9%
grade 6 events	7445	8279	6914	7287	43639
	4%	4%	3%	3%	22%
grade 7 events	119138	130930	157092	146530	90894
	74%	76%	78%	78%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	341.633970	341.64440166635	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.380029	-2.4021986791984	Alternating exposures requested	N	N
[deg] Pointing Roll	268.150880	268.35556022311	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	211653235.184000	211652127.95861			
Observation start date	2004-09-15T16:32:51	2004-09-15T16:15:27			
[s] Observation end time (MET)	211671235.184000	211672661.78453			
Observation end date	2004-09-15T21:32:51	2004-09-15T21:57:41			
Read mode	TIMED	TIMED			

2.3 Aspect





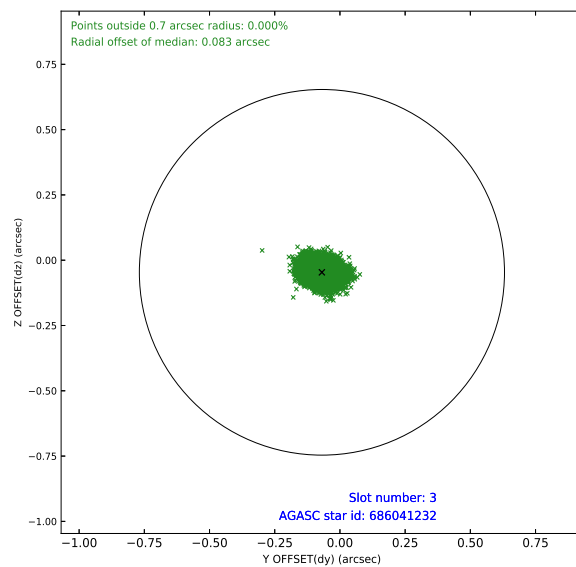
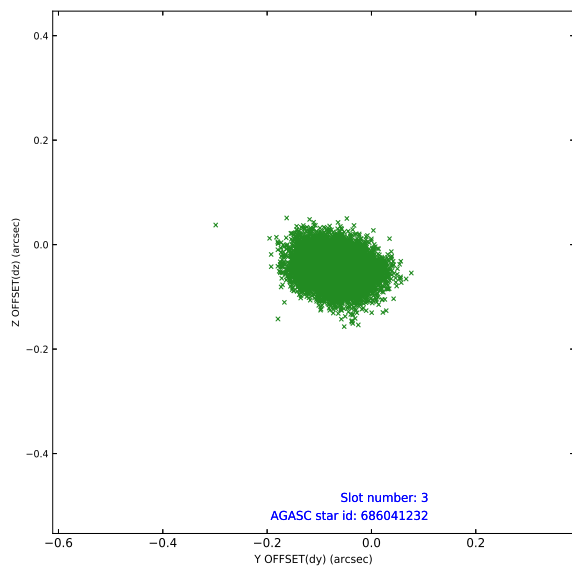
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	4435	1.000	0.007	0.020	0.008	0.013	0.000000	0.000000	933.68	-832
1	FID		ACIS-I-5	7.23	4434	1.000	-0.190	0.020	0.008	0.014	0.000000	0.000000	-1814.53	1064
2	FID		ACIS-I-6	7.26	4434	1.000	0.092	0.030	0.008	0.013	0.000000	0.000000	399.03	1709
3	GUIDE	used	686041232	7.23	8870	1.000	-0.069	-0.046	0.050	0.084	341.873976	-1.788783	-2154.98	794
4	GUIDE	used	686424624	7.87	8869	1.000	0.095	-0.077	0.055	0.087	341.803081	-2.709736	1167.02	647
5	GUIDE	used	686424920	8.95	8869	1.000	0.014	0.049	0.078	0.123	341.978973	-2.573998	658.45	1263
6	GUIDE	used	686425928	8.77	8859	1.000	-0.053	0.036	0.070	0.112	341.017068	-2.531540	617.94	-2199
7	GUIDE	used	686426064	9.43	8863	1.000	0.012	0.041	0.105	0.171	341.035207	-2.739354	1363.66	-2109

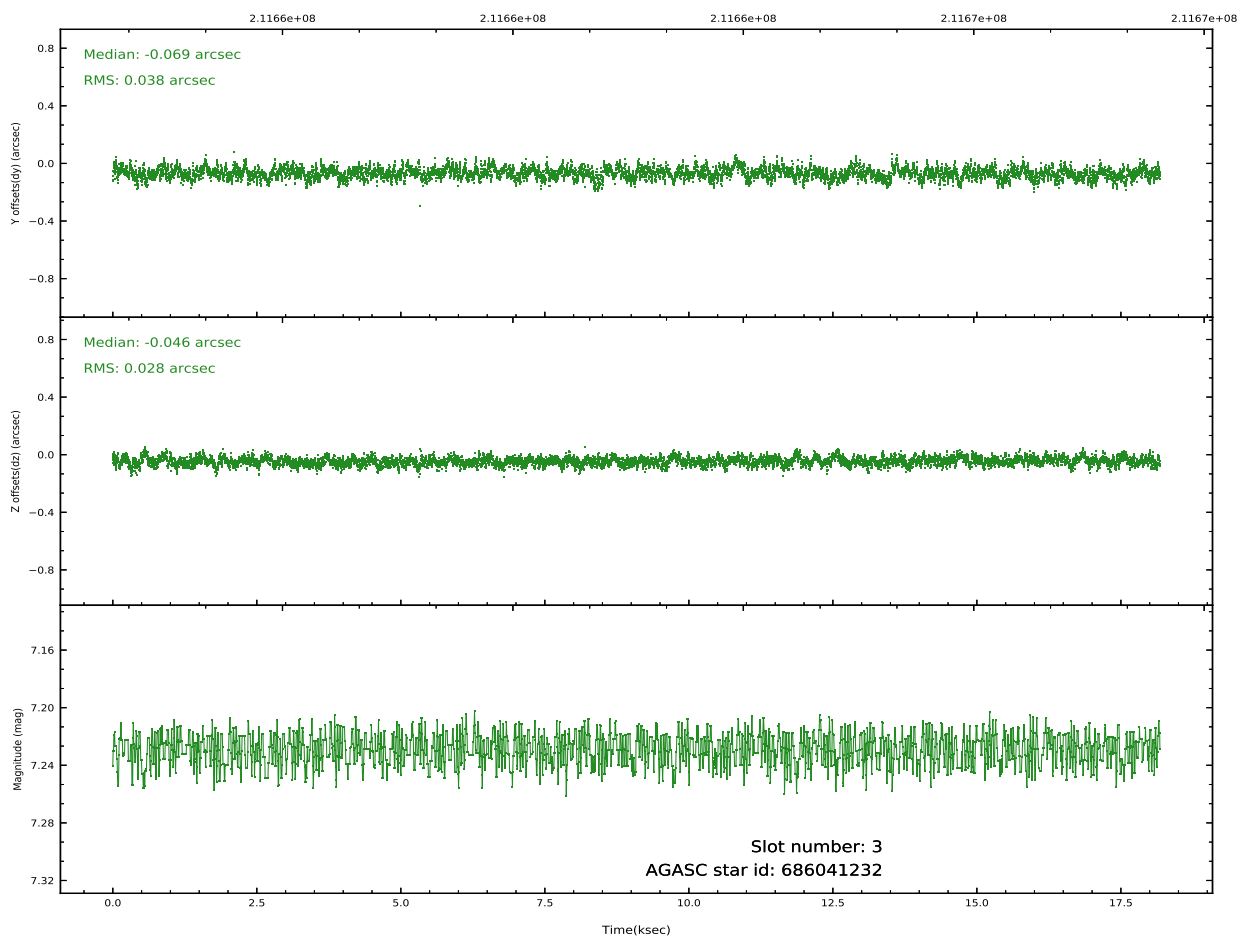
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2.4 Star Slots

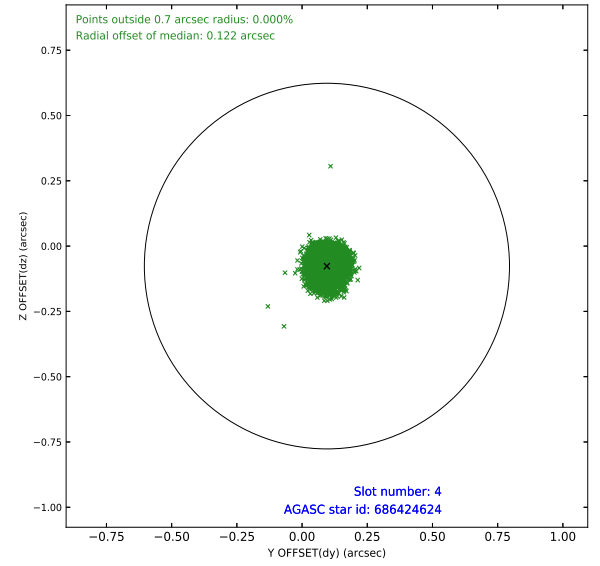
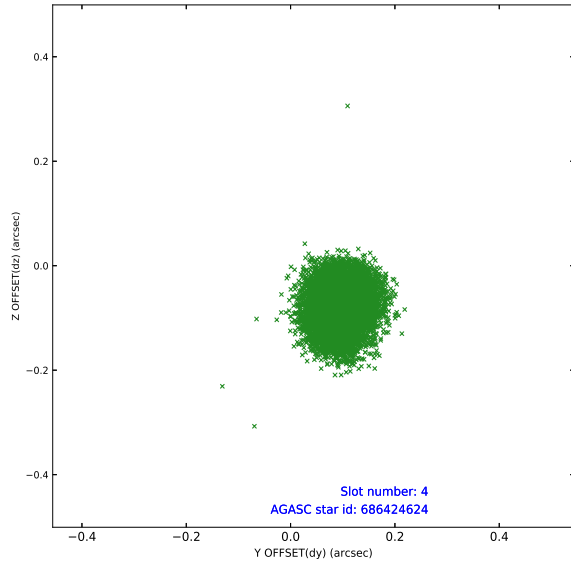
2.4.1 Slot 3



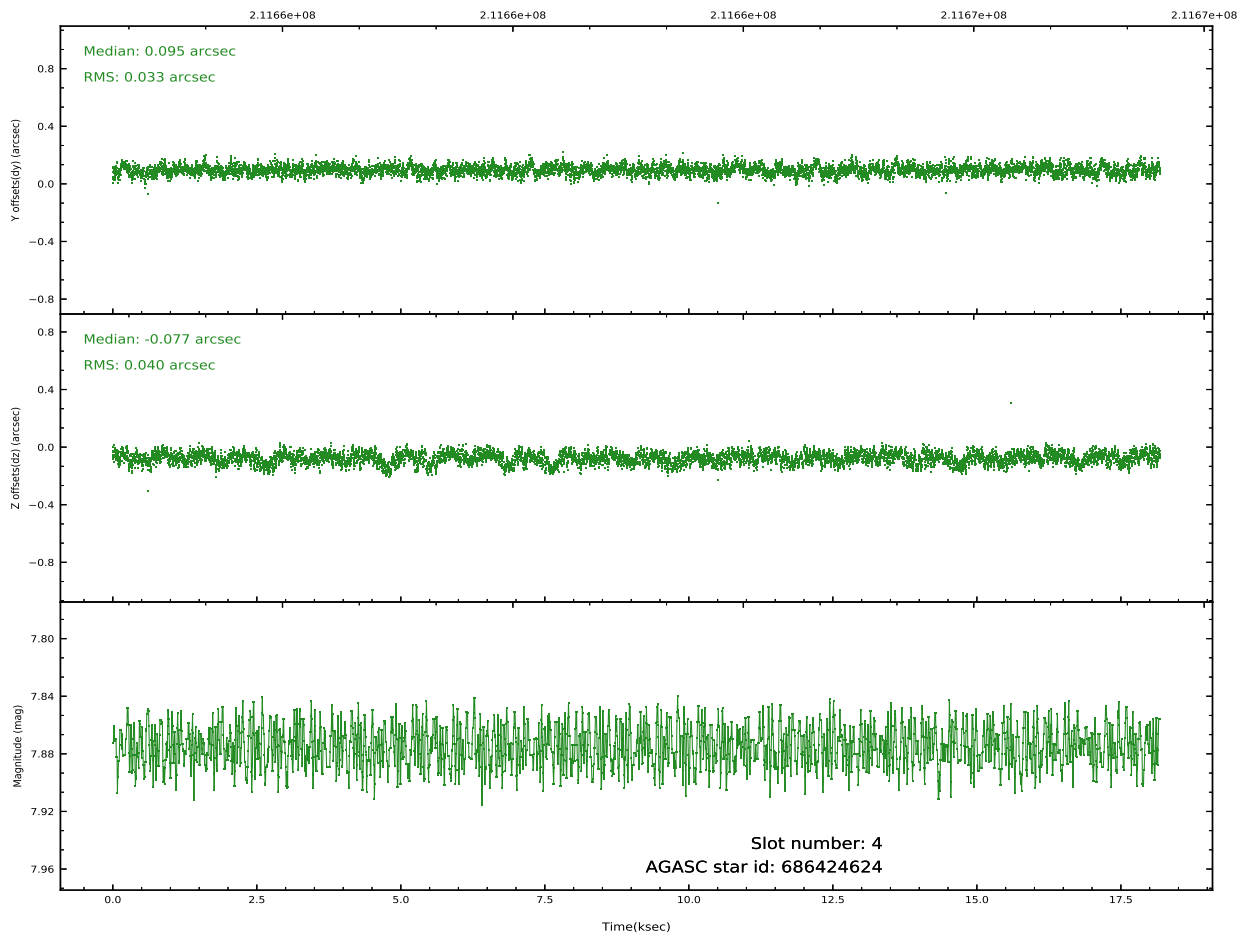
Time (s)



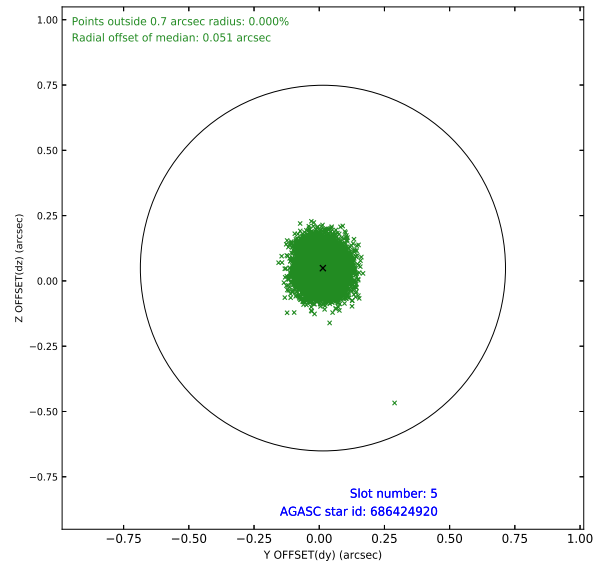
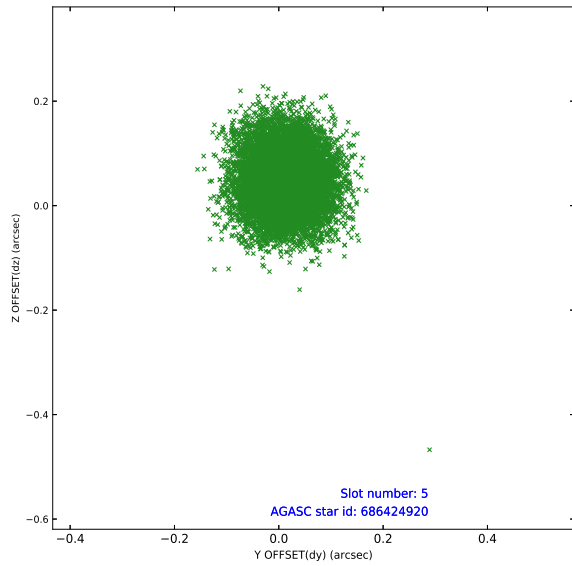
2.4.2 Slot 4



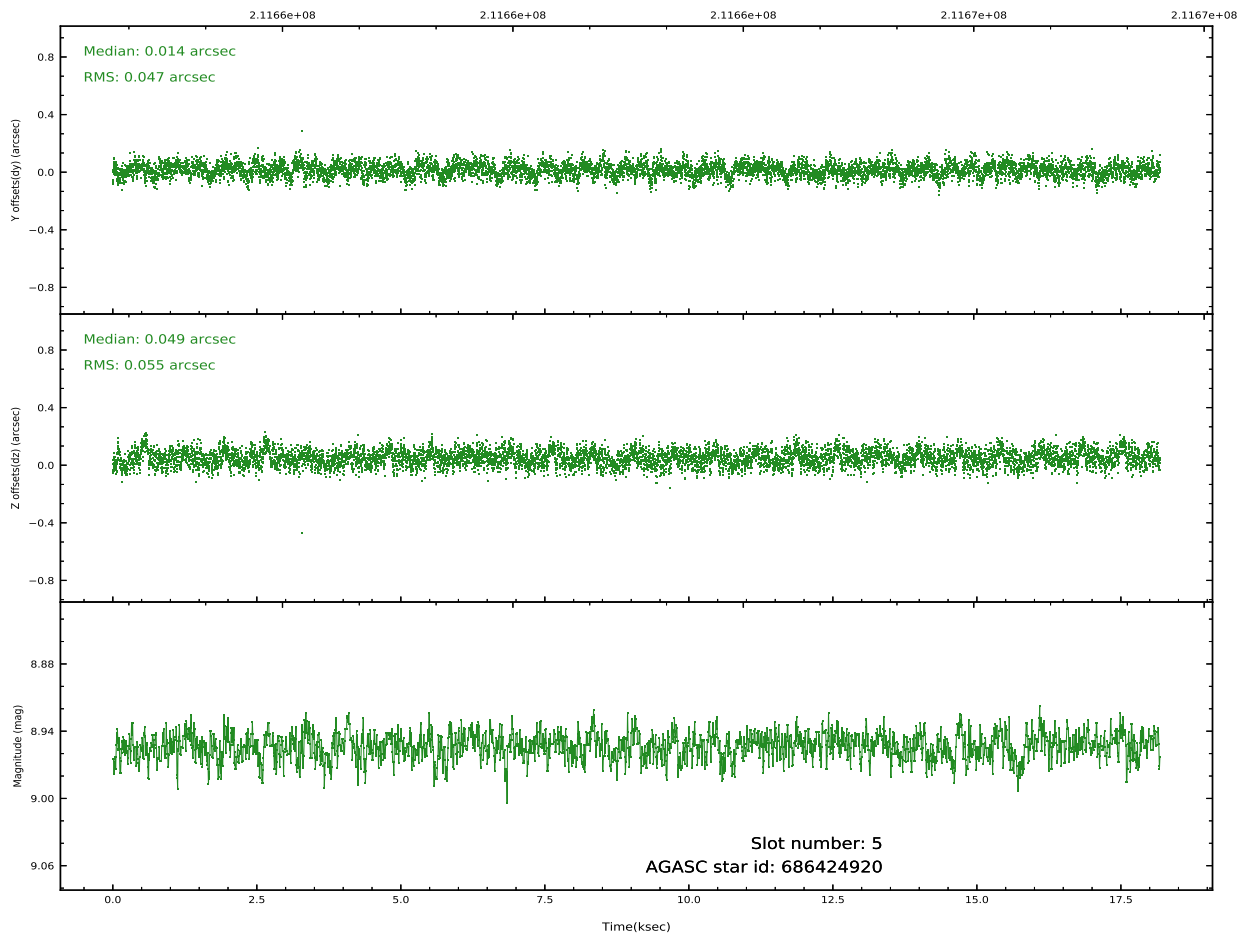
Time (s)



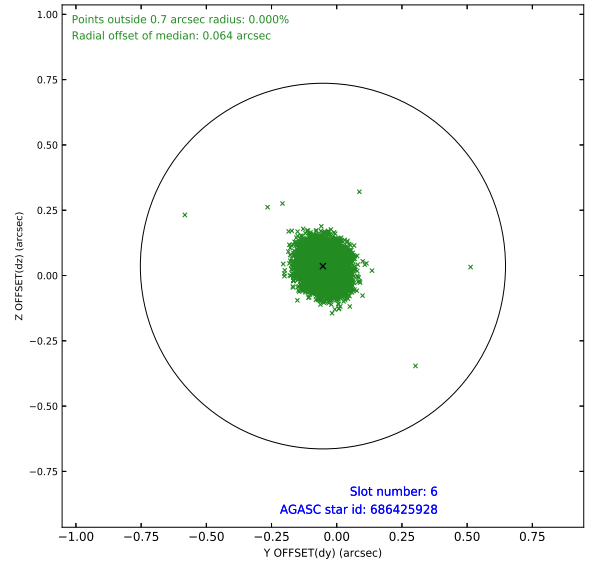
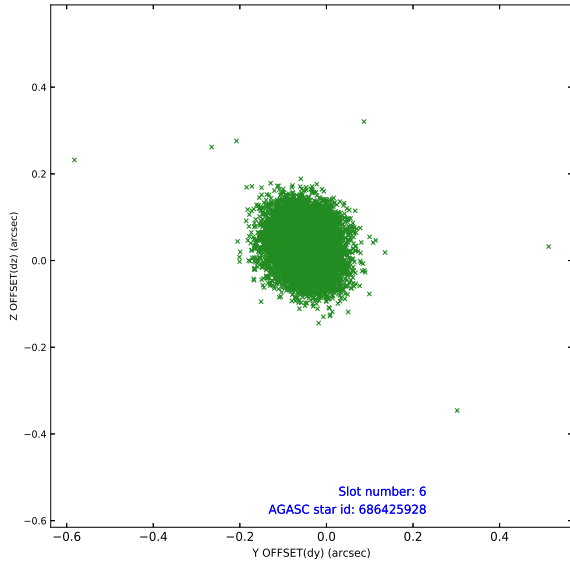
2.4.3 Slot 5



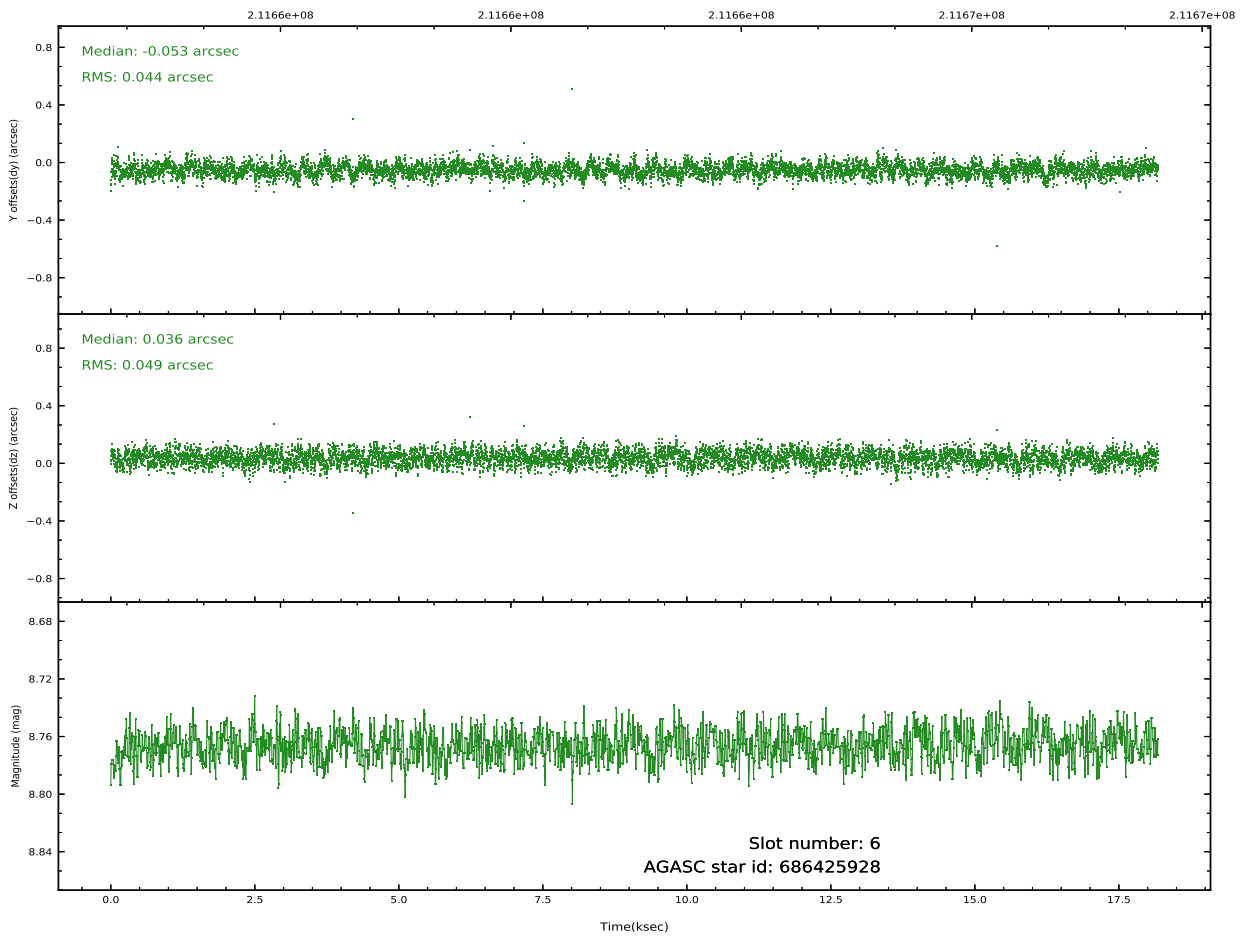
Time (s)



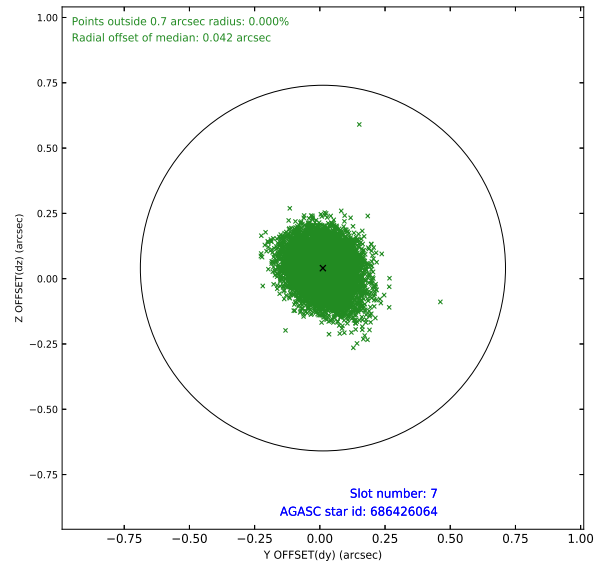
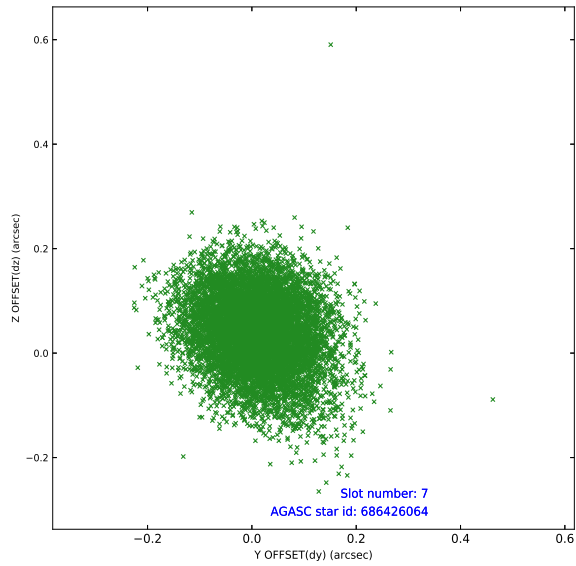
2.4.4 Slot 6



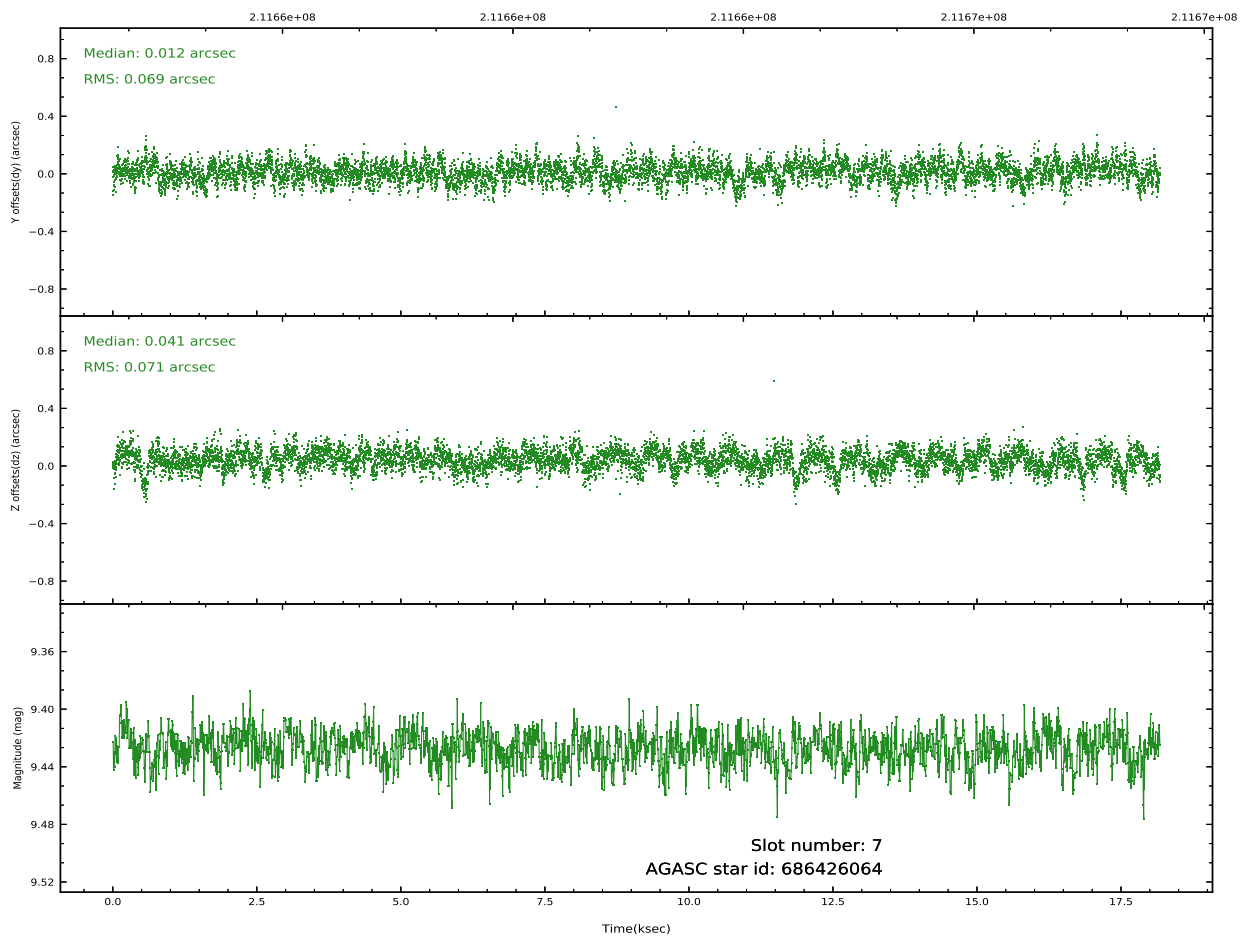
Time (s)



2.4.5 Slot 7

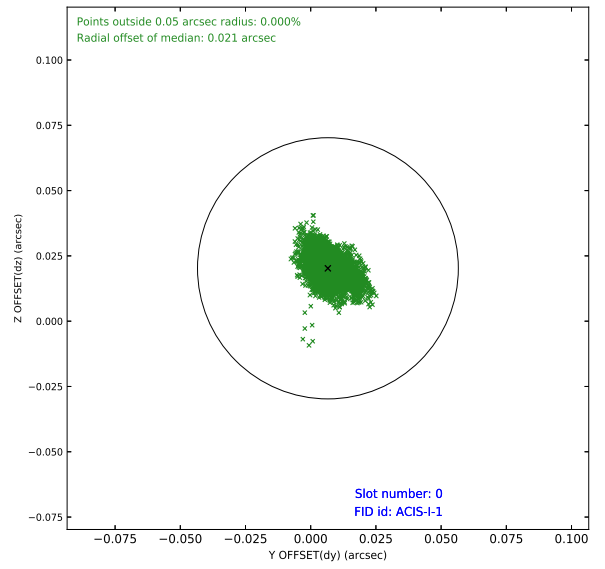
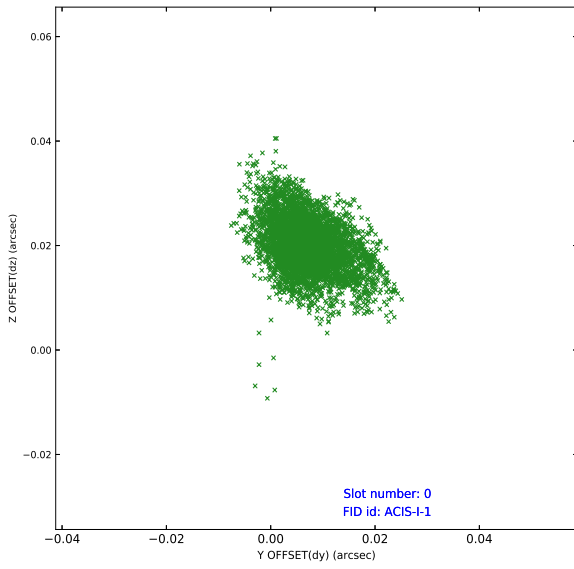


Time (s)

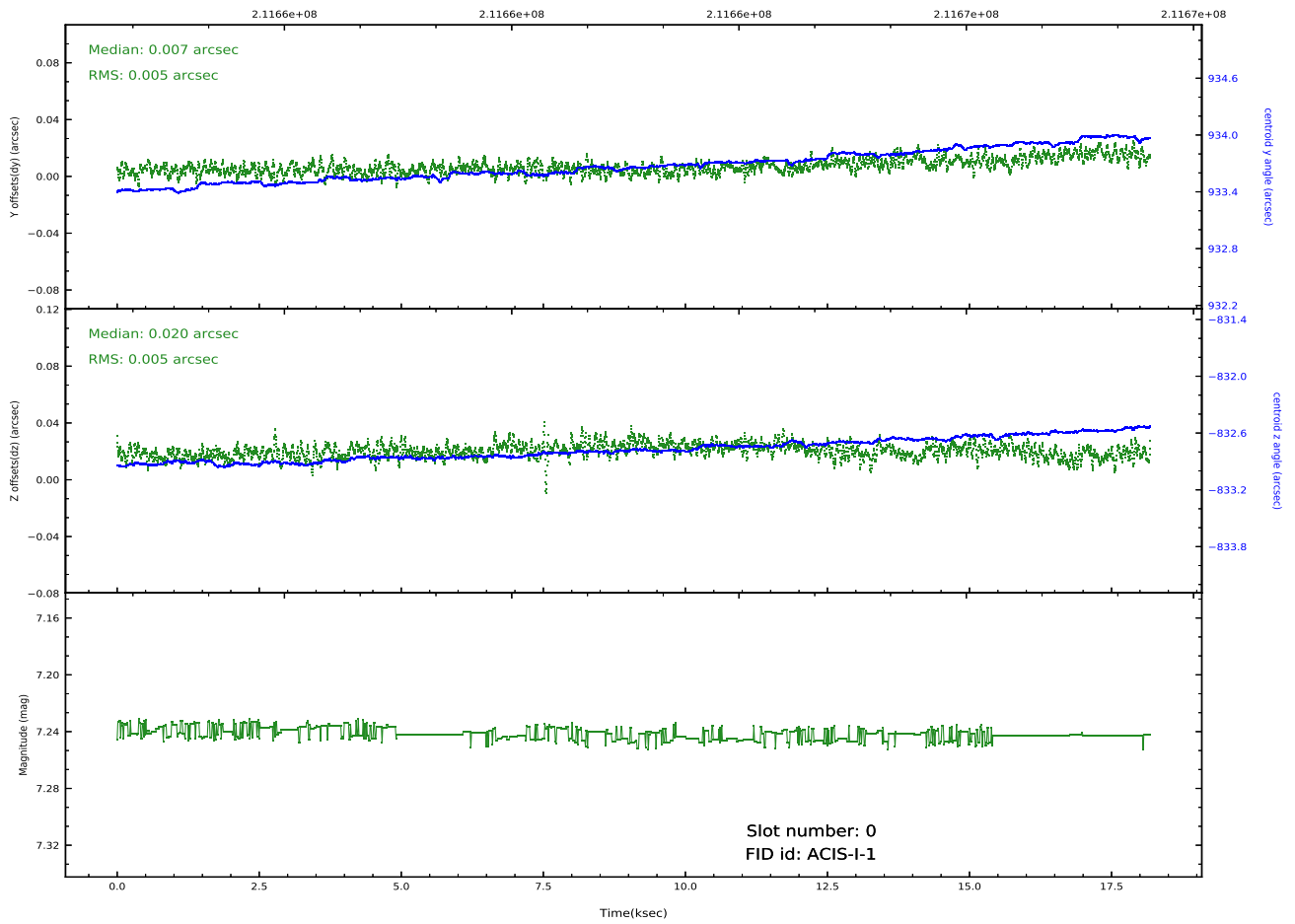


2.5 FID Slots

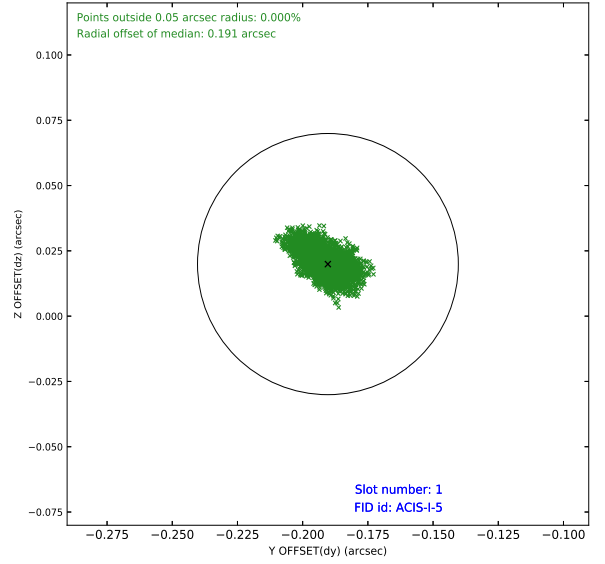
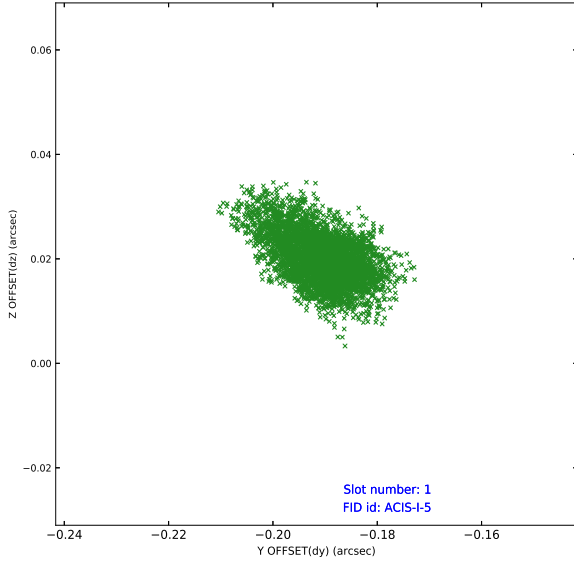
2.5.1 Slot 0



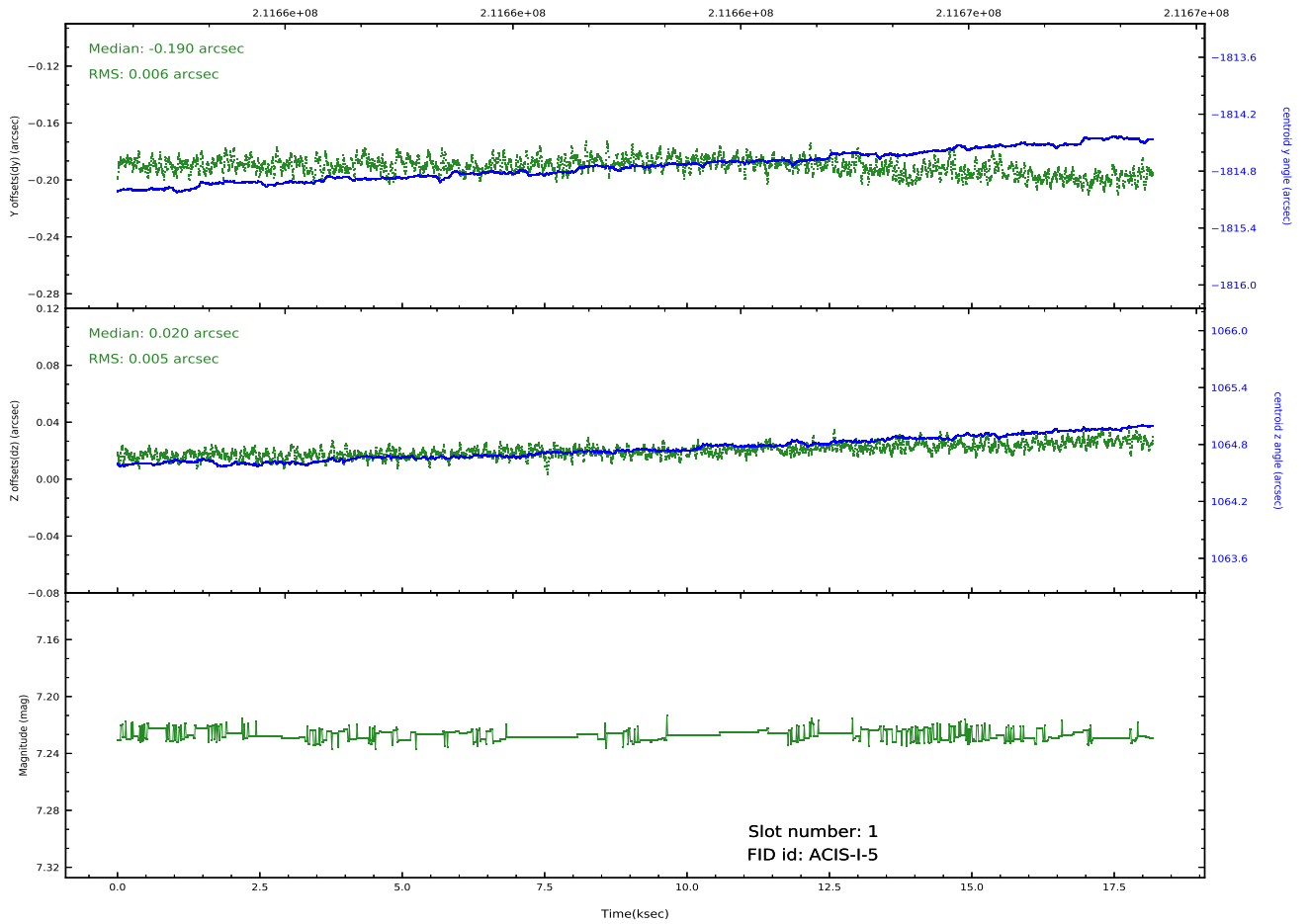
Time (s)



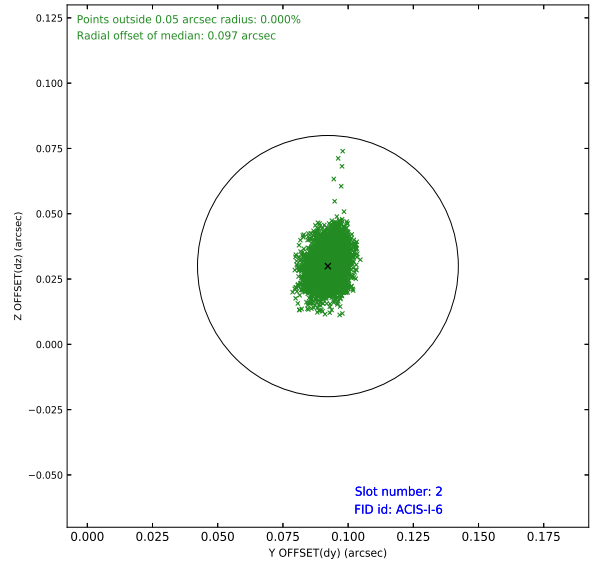
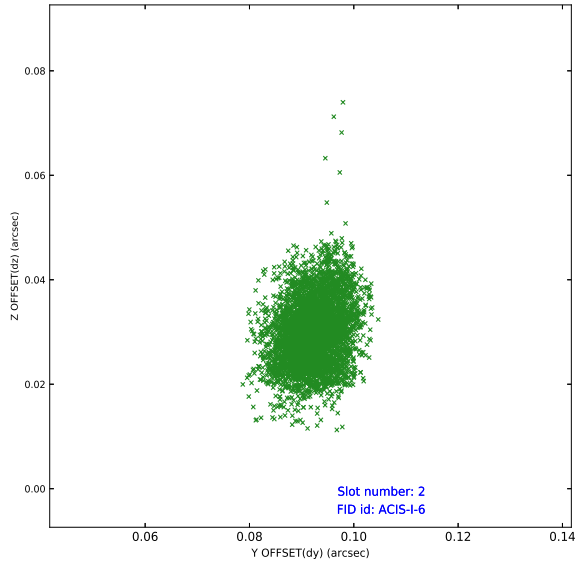
2.5.2 Slot 1



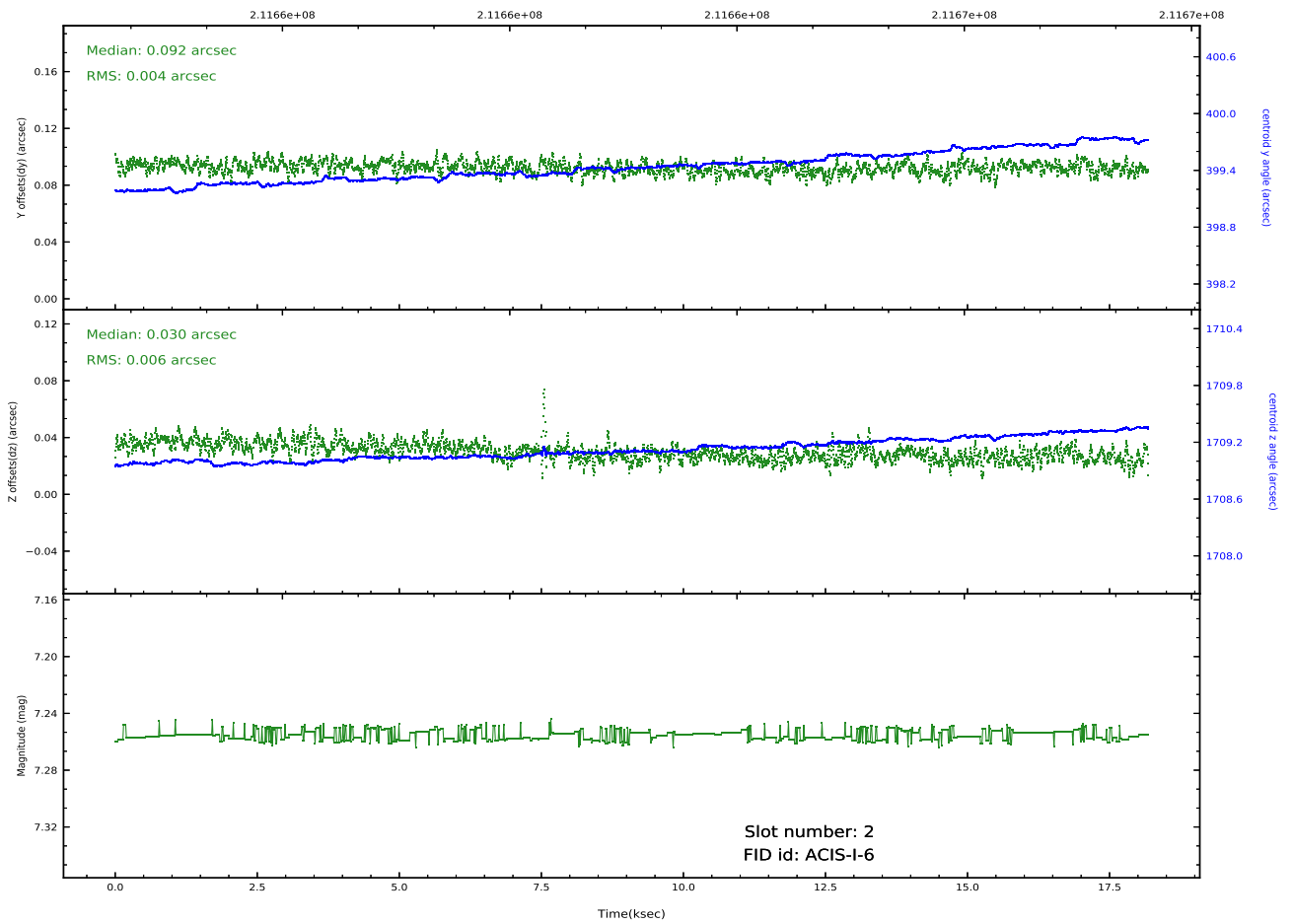
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.172

A.2 Comments

Target falls into CCD chip gap in this observation. A custom dither of 11.988 arcsec was used to mitigate the inter-chip gap space, since the coordinates are poorly known. Monitor constraint met.