

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5793 - L2 Version 4
Chandra X-Ray Center

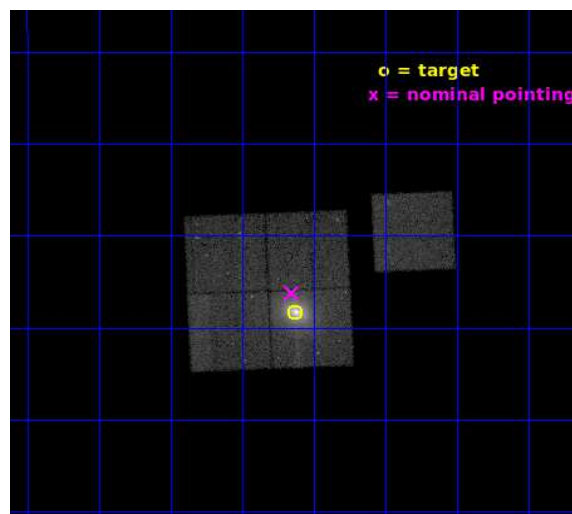
L2 Processing Date : Oct 7 2020

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1 Front

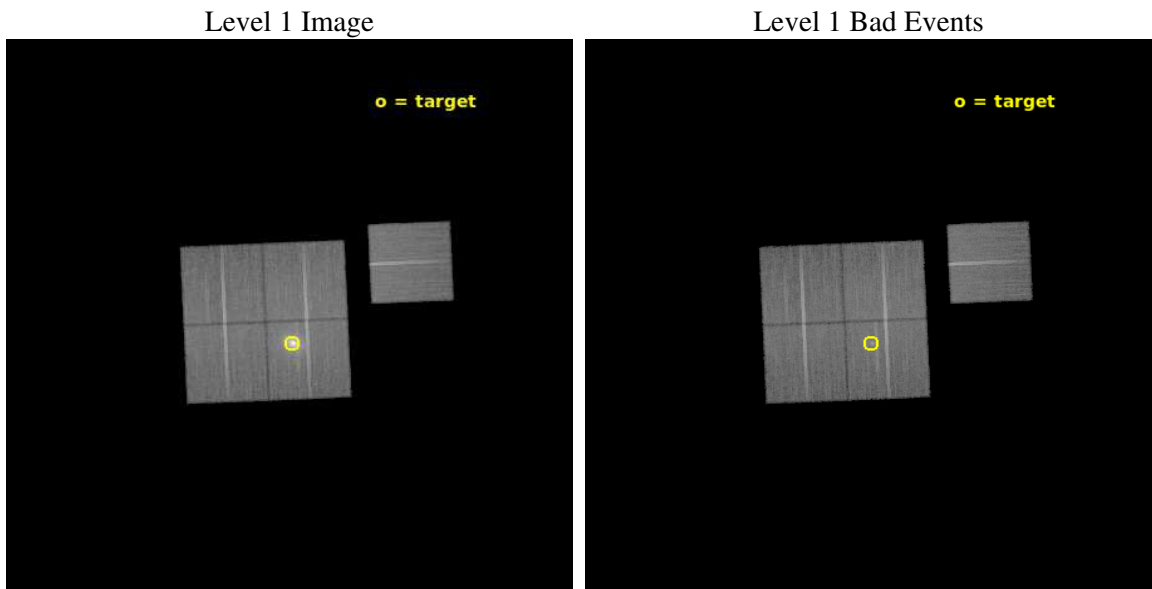
seq_num	800506	Sequence number
obs_id	5793	Observation id
title	A detailed Chandra Study of the cluster with the most luminous cooling core at $z > 0.25$	Proposal title
observer	Prof. Hans Boehringer	Principal investigator
object	RXCJ1504.1-0248	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	226.032083	Observer's specified target RA [deg]
dec_targ	-2.805	Observer's specified target Dec [deg]
ra_nom	226.03826738277	Nominal RA [deg]
dec_nom	-2.7696690667988	Nominal Dec [deg]
roll_nom	87.531560740567	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39673.676962942	Sum of GTIs [s]
livetime	39155.311166085	Livetime [s]
ontime0	39679.958903641	Sum of GTIs [s]
ontime1	39664.253972352	Sum of GTIs [s]
ontime2	39683.09992367	Sum of GTIs [s]
ontime3	39673.676962942	Sum of GTIs [s]
ontime6	39673.670832396	Sum of GTIs [s]
l2events	242198	Number of level 2 events



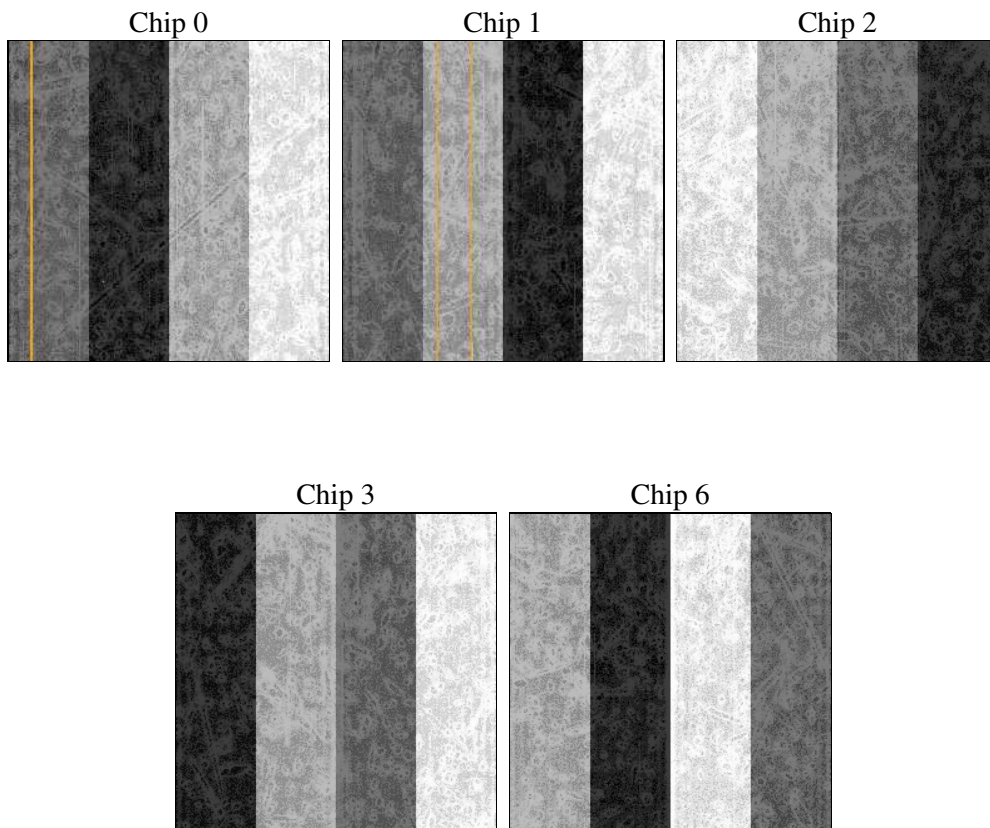
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39624.006000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	39673.676962942	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	39679.958903641	Sum of GTIs [s]
date	2020-10-07T11:26:52	Date and time of file creation	ontime1	39664.253972352	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	39683.09992367	Sum of GTIs [s]
			ontime3	39673.676962942	Sum of GTIs [s]
			ontime6	39673.670832396	Sum of GTIs [s]
			l1events	1359065	Number of level 1 events

2.1.4 Events

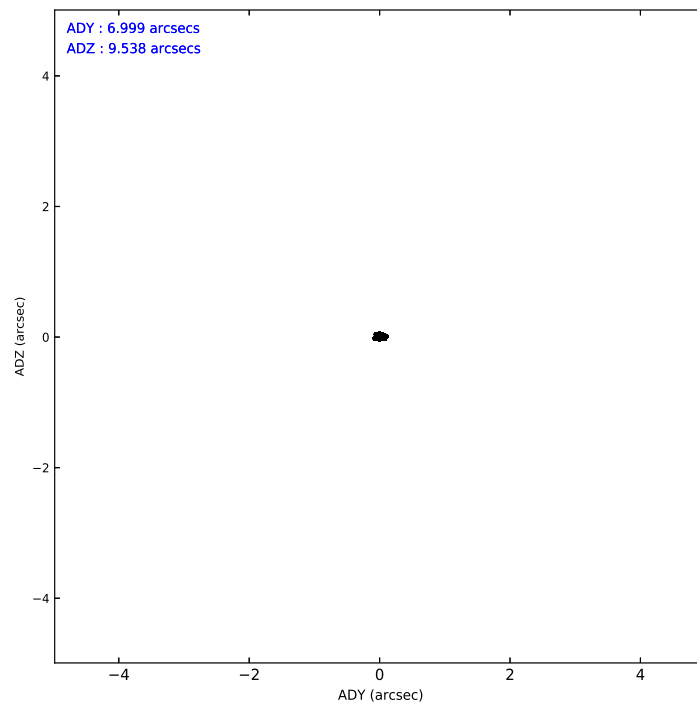
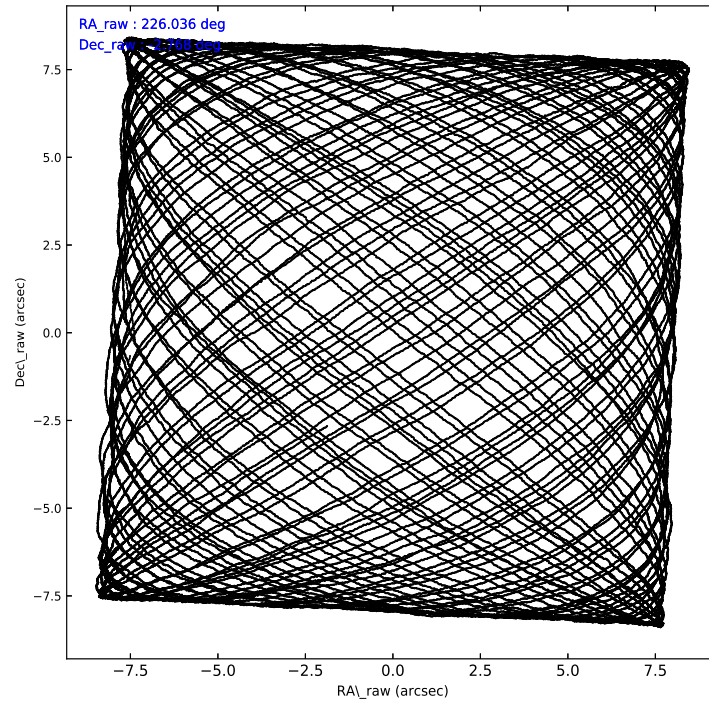
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	231160	236680	267843	376247	247135
rejected events	204226	205146	239824	223770	219312
rejected %	88%	86%	89%	59%	88%

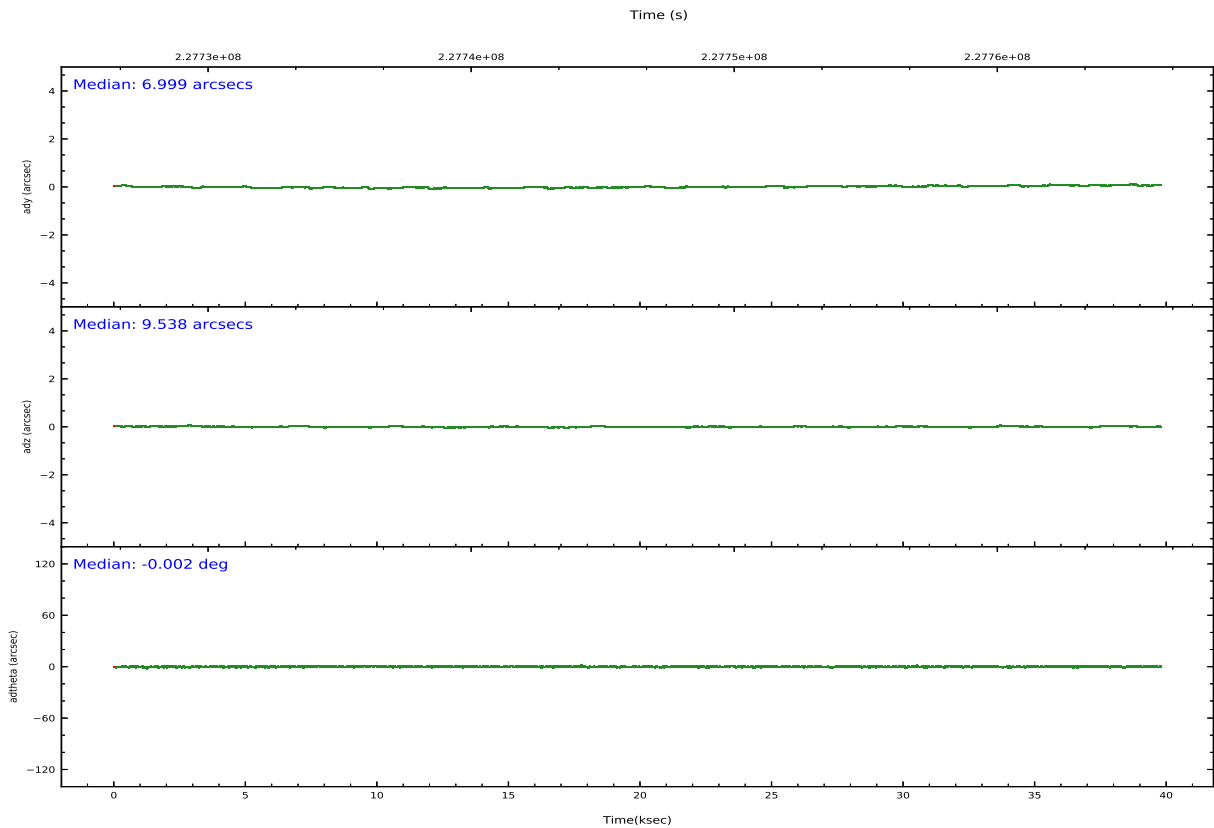
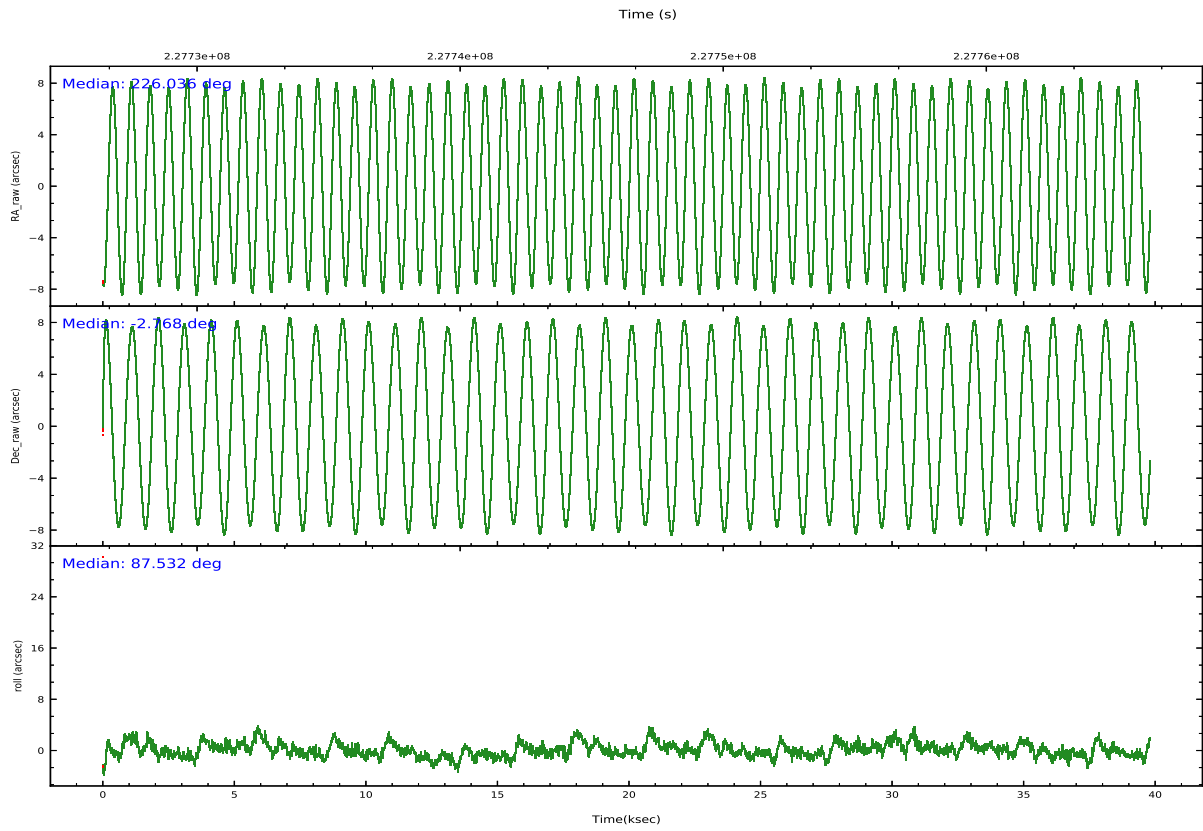
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10559	13039	11762	113862	10730
	4%	5%	4%	30%	4%
grade 1 events	126	111	130	917	101
	0%	0%	0%	0%	0%
grade 2 events	6095	6394	6071	17673	5713
	2%	2%	2%	4%	2%
grade 3 events	2871	3179	2762	6615	2937
	1%	1%	1%	1%	1%
grade 4 events	2583	3168	2777	6604	2819
	1%	1%	1%	1%	1%
grade 5 events	8611	9177	8241	10547	9636
	3%	3%	3%	2%	3%
grade 6 events	4830	5758	4649	7735	5624
	2%	2%	1%	2%	2%
grade 7 events	195485	195854	231451	212294	209575
	84%	82%	86%	56%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	226.048408	226.03826738277	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.791747	-2.7696690667988	Alternating exposures requested	N	N
[deg] Pointing Roll	87.329484	87.531560740567	[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	-227.592463	-227.5933067819097			
[mm] SIM translation stage offset	-6	-5.999146221020027			
[s] Observation start time (MET)	227726603.184000	227725669.76952			
Observation start date	2005-03-20T17:22:19	2005-03-20T17:07:49			
[s] Observation end time (MET)	227766227.184000	227766458.10887			
Observation end date	2005-03-21T04:22:43	2005-03-21T04:27:38			
Read mode	TIMED	TIMED			

2.3 Aspect





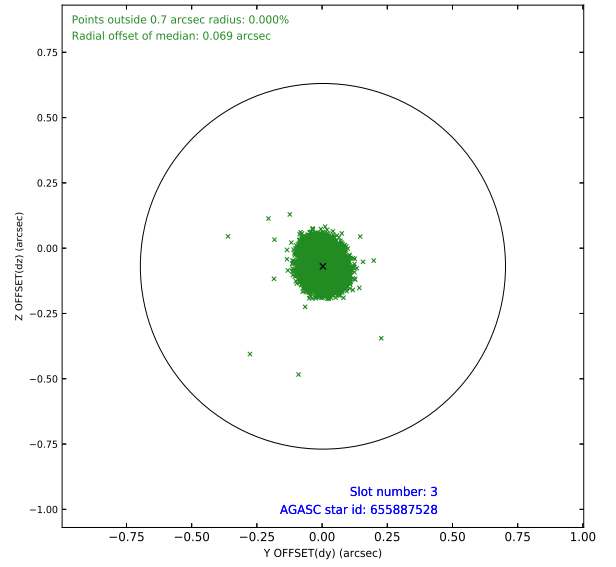
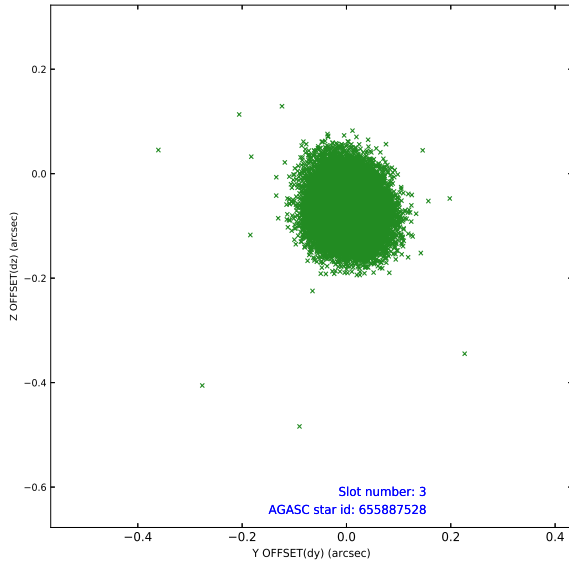
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	9710	1.000	0.097	-0.076	0.006	0.010	0.000000	0.000000	932.67	-956
1	FID		ACIS-I-5	7.23	9709	1.000	-0.264	0.079	0.006	0.011	0.000000	0.000000	-1815.80	941
2	FID		ACIS-I-6	7.25	9710	1.000	0.075	0.068	0.007	0.011	0.000000	0.000000	398.16	1585
3	GUIDE	used	655887528	8.18	19417	1.000	0.003	-0.069	0.060	0.094	225.707931	-2.599687	633.38	1255
4	GUIDE	used	655887976	8.61	19360	1.000	0.136	-0.120	0.070	0.112	225.483318	-3.038087	-981.10	1987
5	GUIDE	used	655891488	6.98	19415	1.000	0.081	-0.005	0.066	0.106	225.686953	-3.031386	-922.59	1258
6	GUIDE	used	655887400	8.93	19400	1.000	-0.176	-0.025	0.077	0.128	225.974634	-2.124539	2386.91	377
7	GUIDE	used	655886288	8.10	19415	1.000	-0.049	0.217	0.073	0.118	226.751841	-2.297509	1895.32	-2444

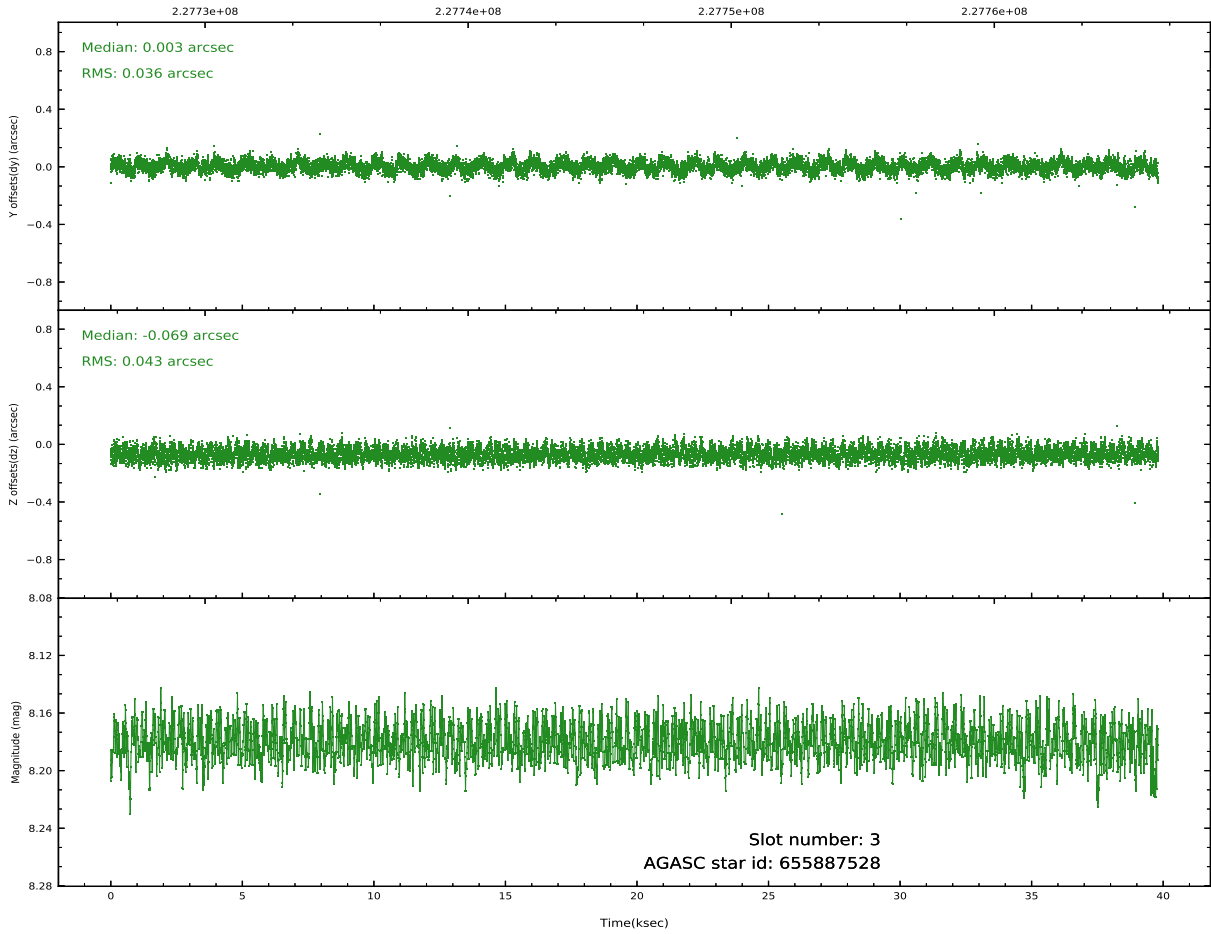
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2.4 Star Slots

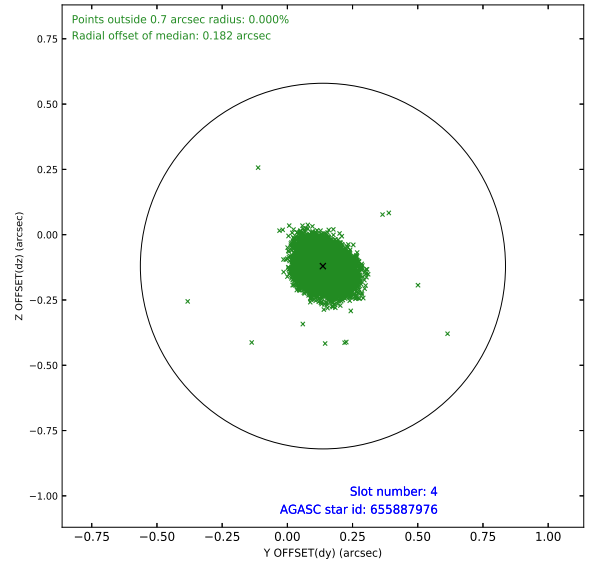
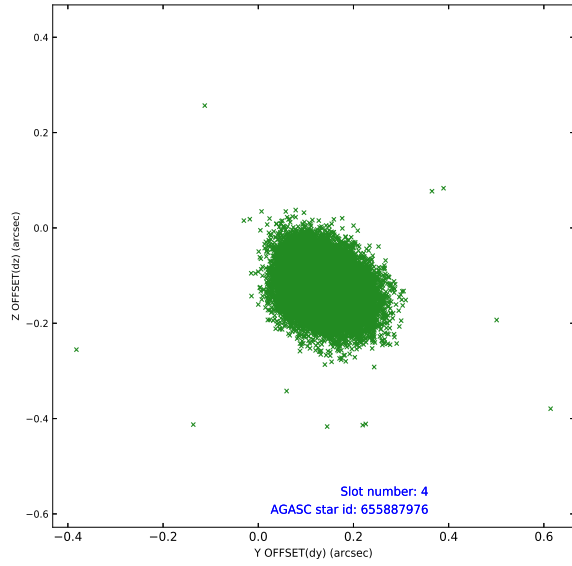
2.4.1 Slot 3



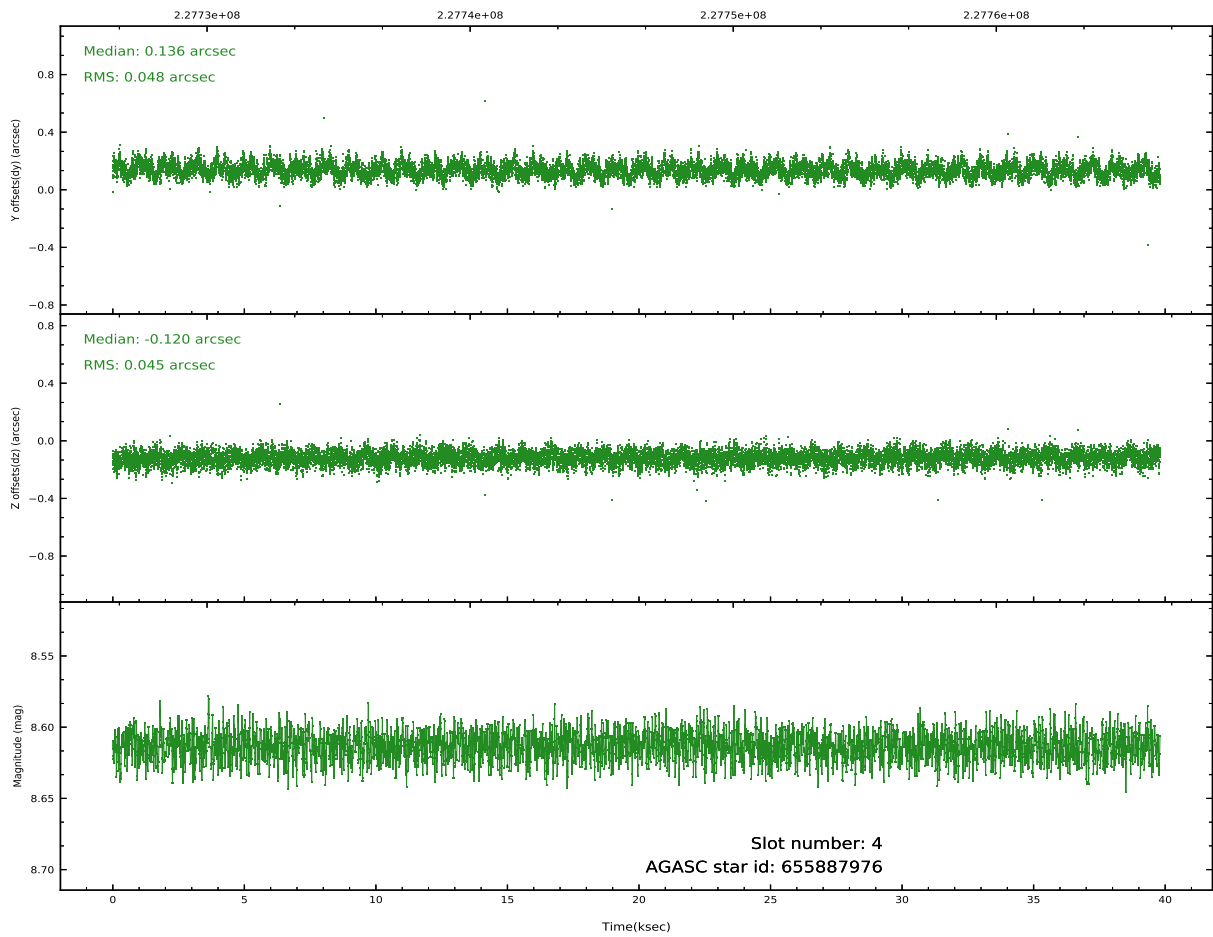
Time (s)



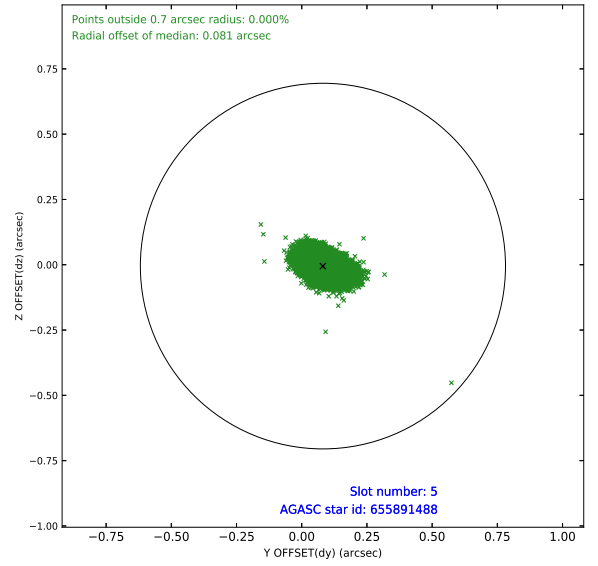
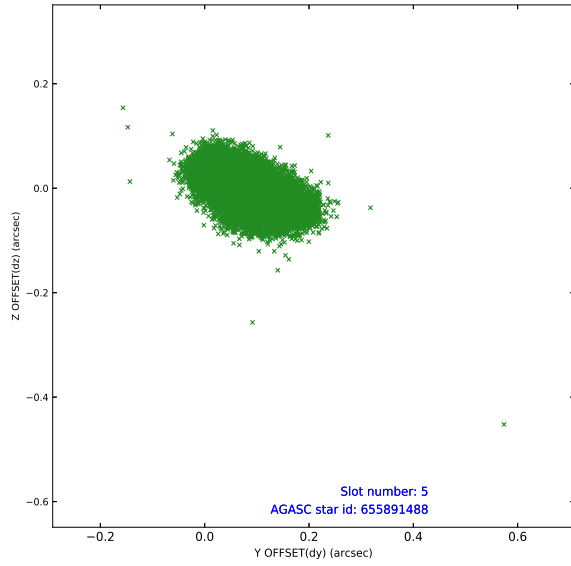
2.4.2 Slot 4



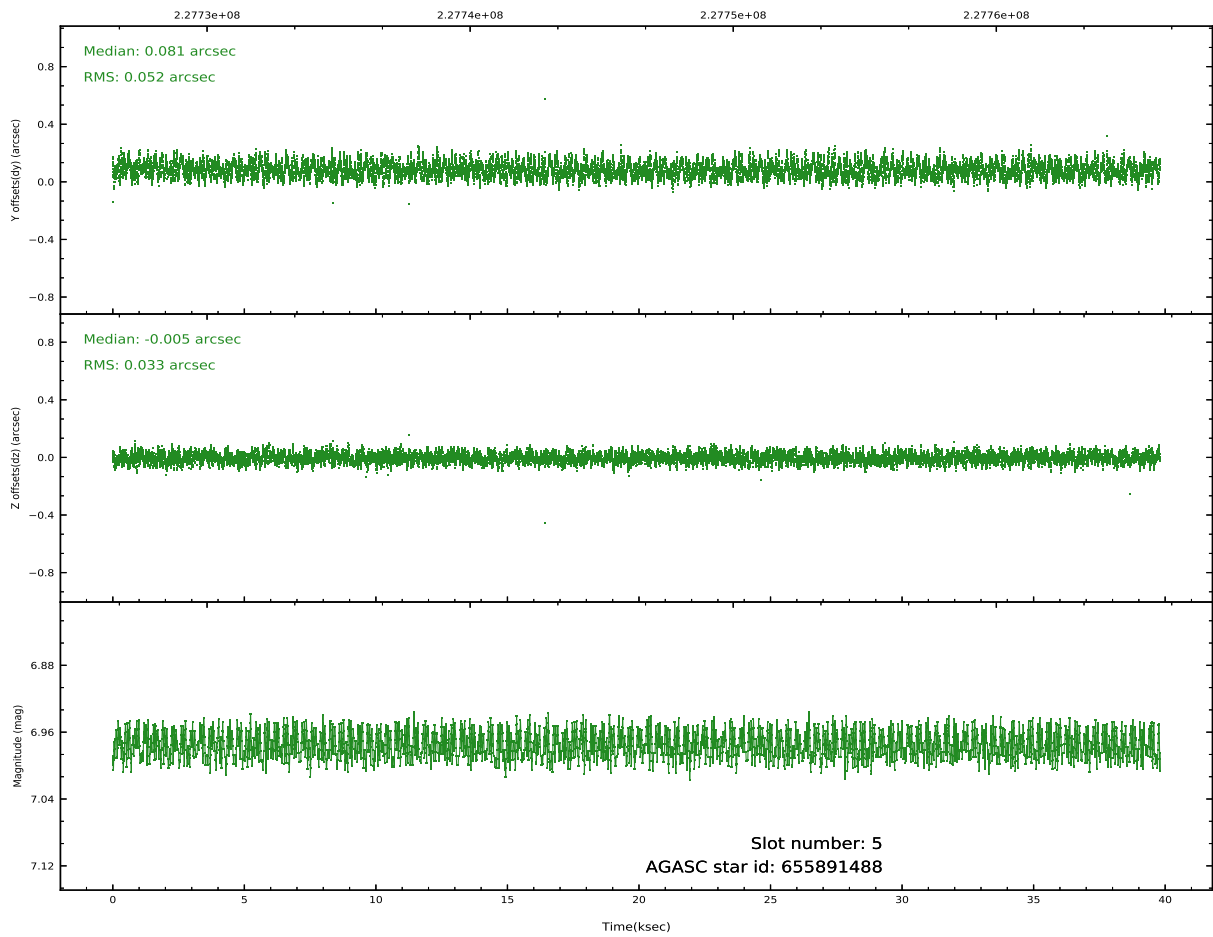
Time (s)



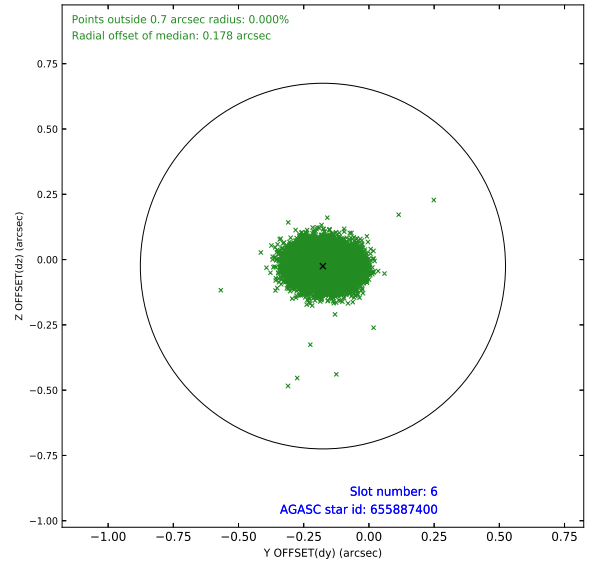
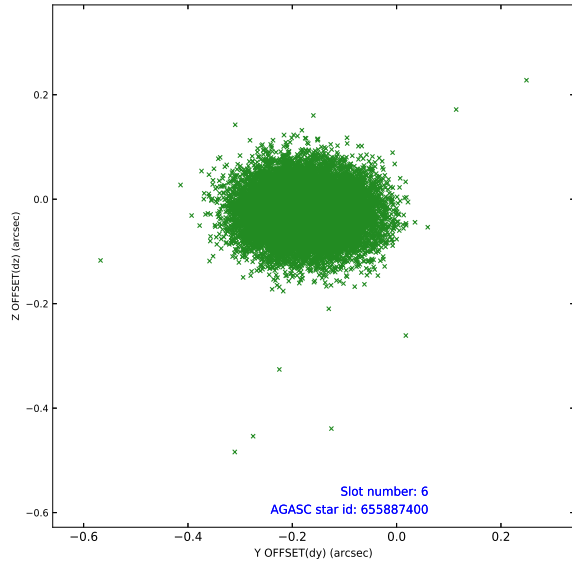
2.4.3 Slot 5



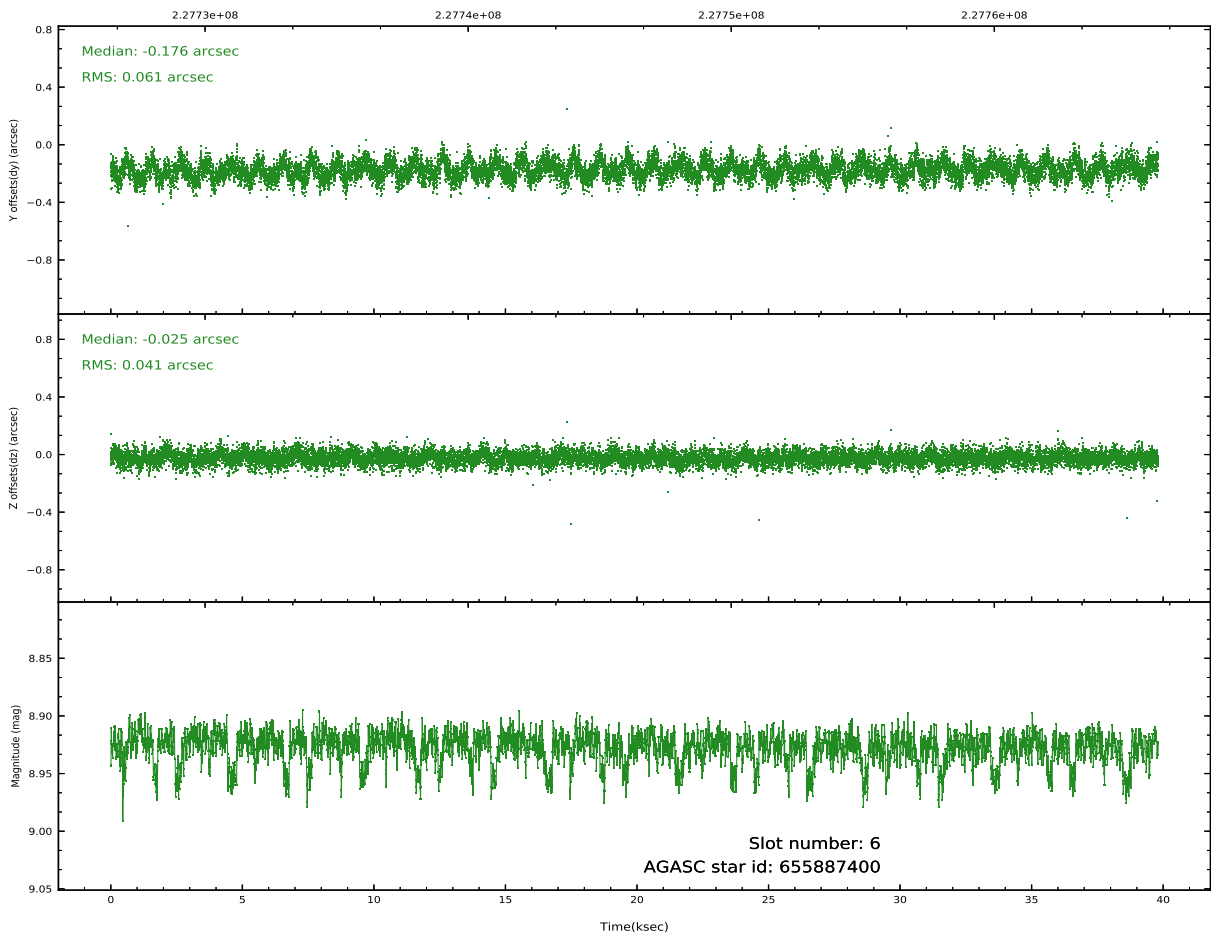
Time (s)



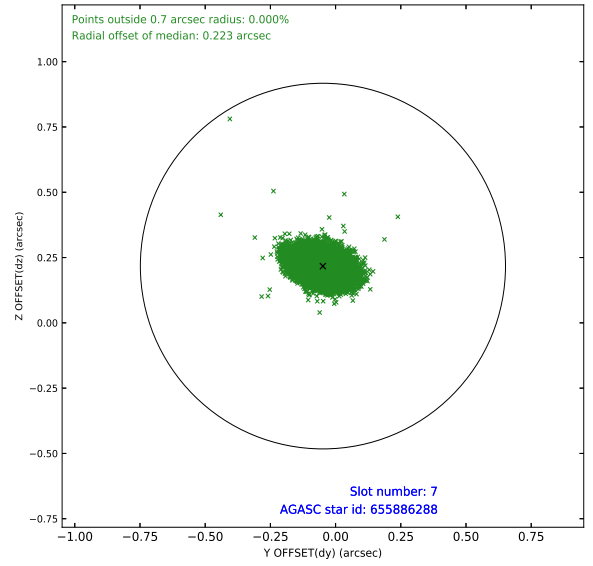
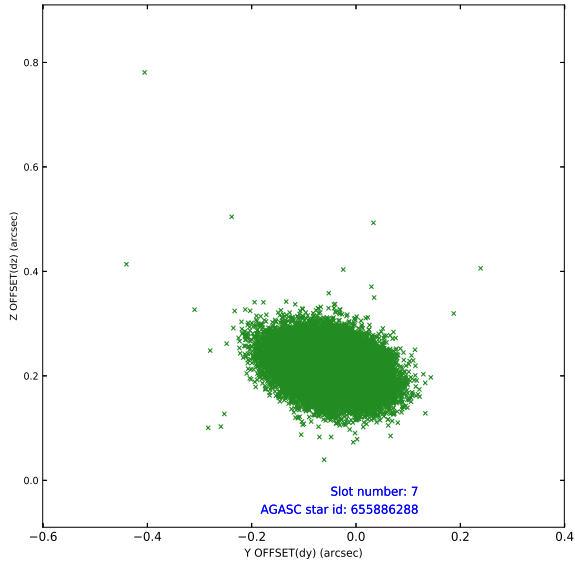
2.4.4 Slot 6



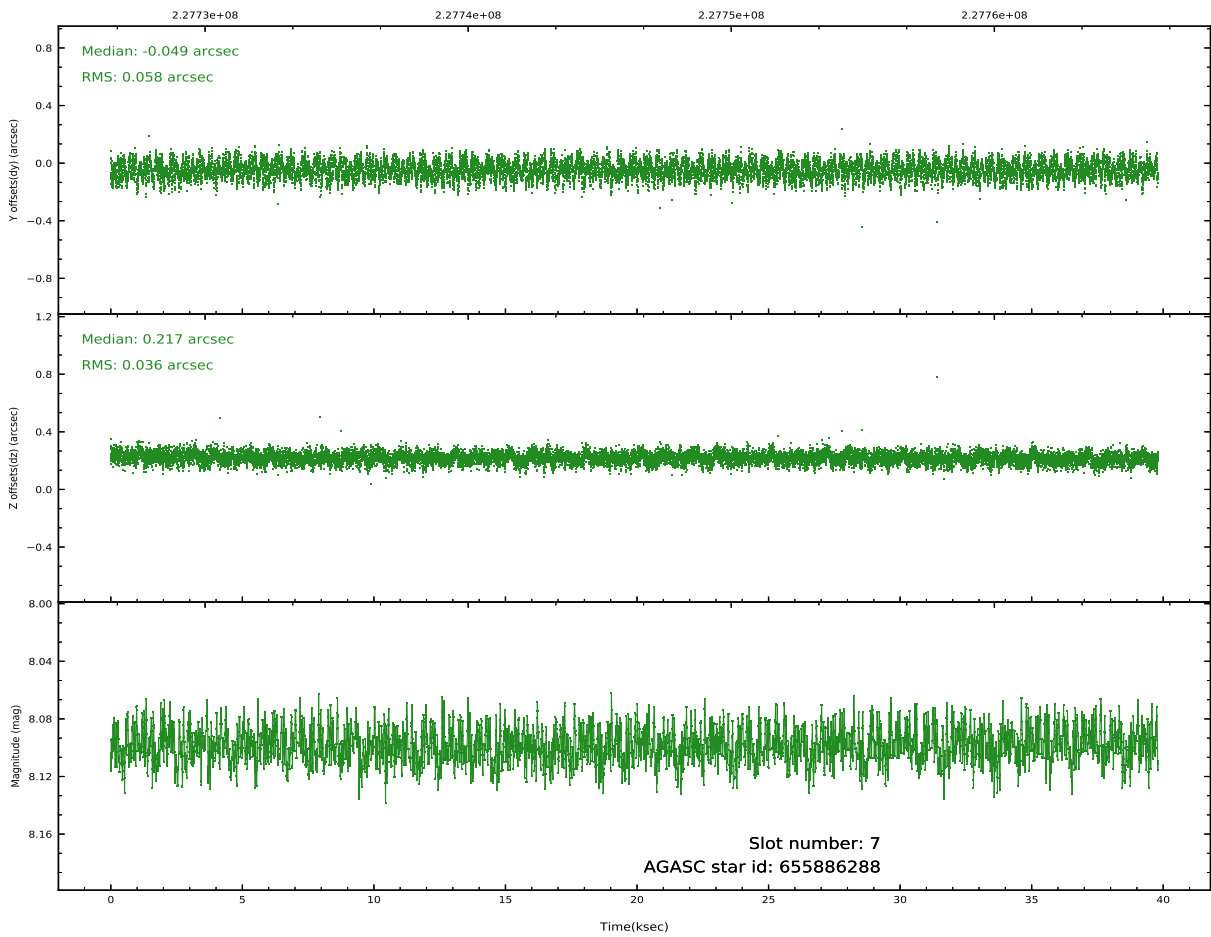
Time (s)



2.4.5 Slot 7

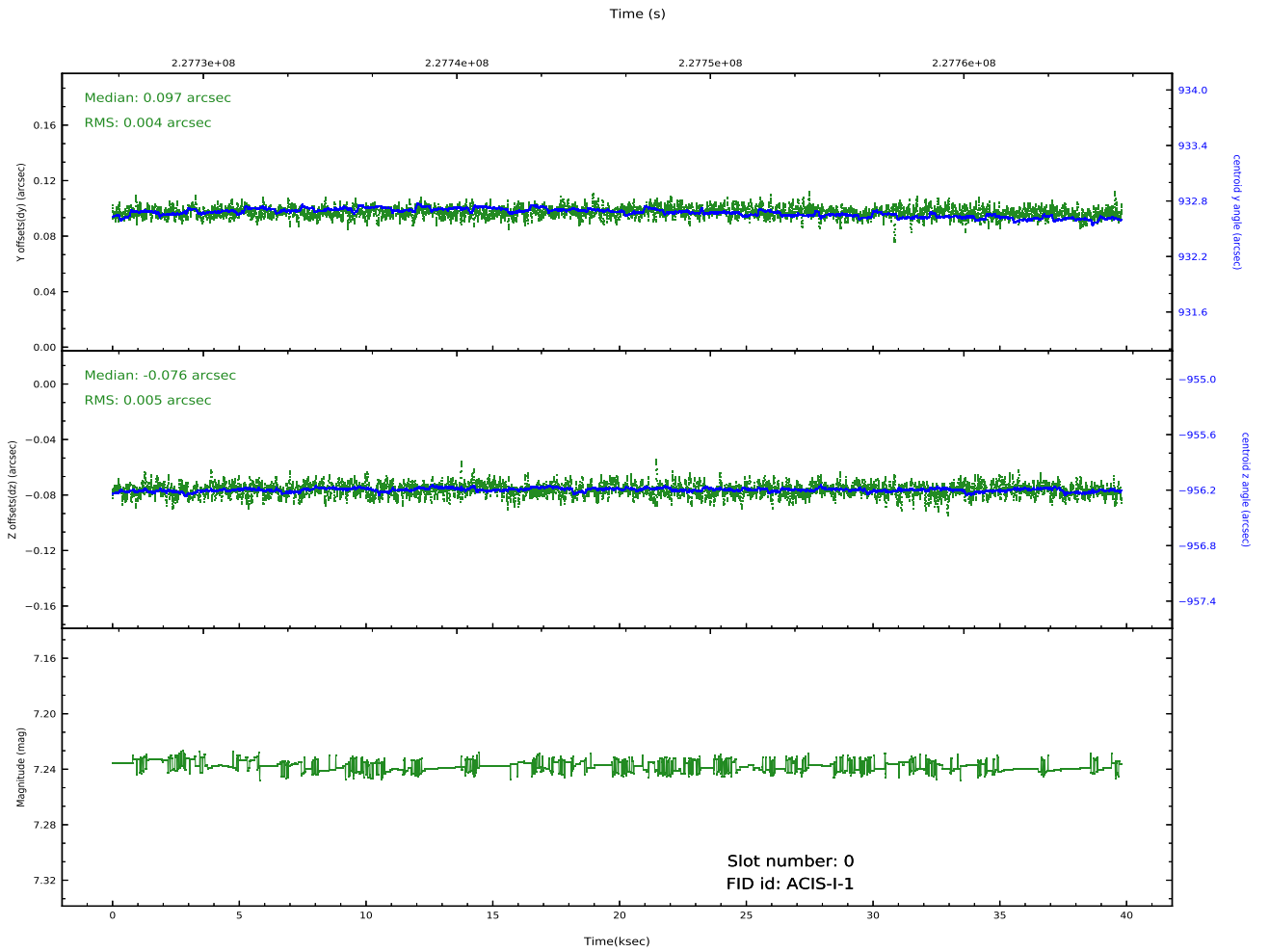
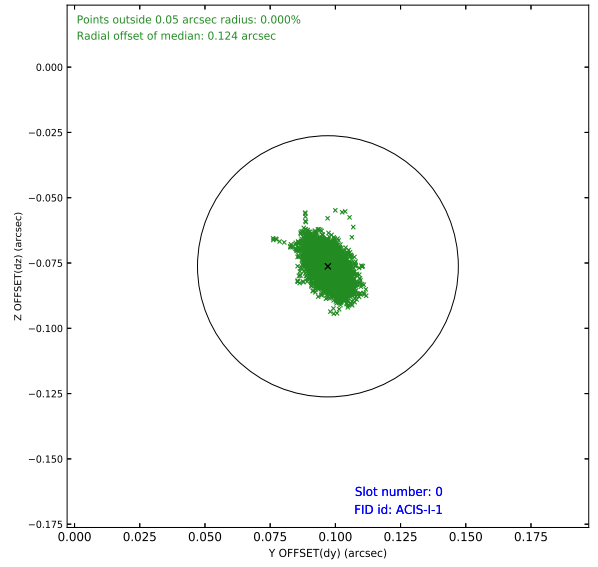
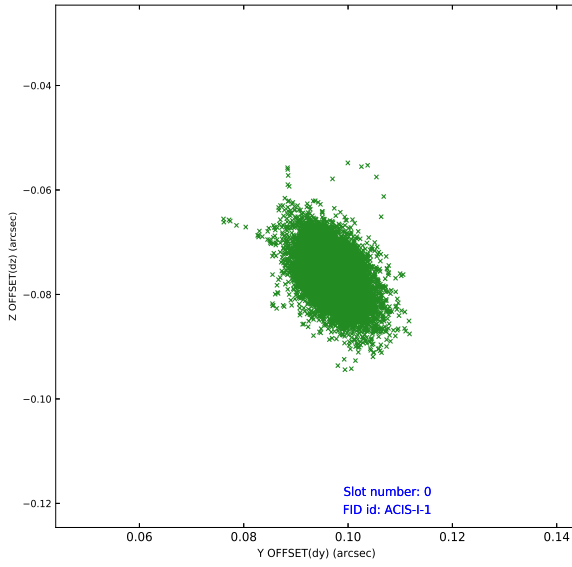


Time (s)

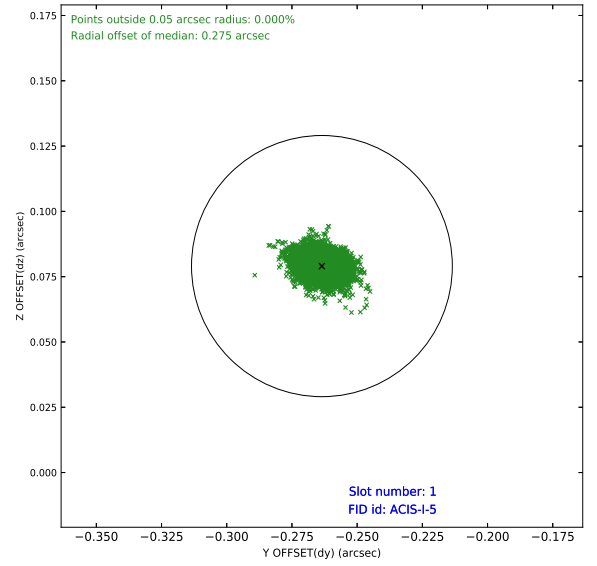
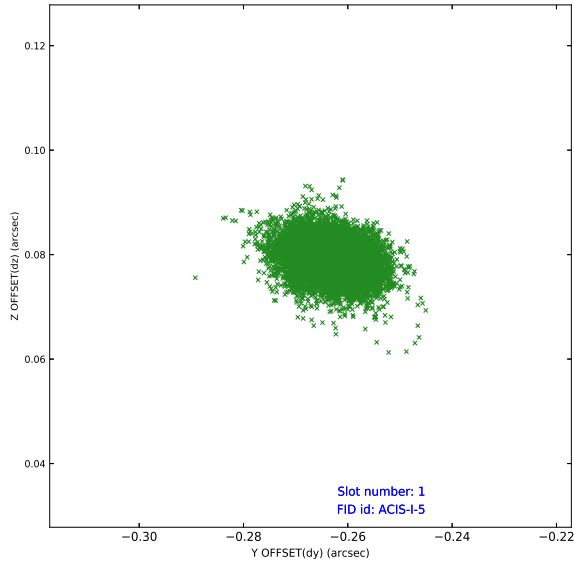


2.5 FID Slots

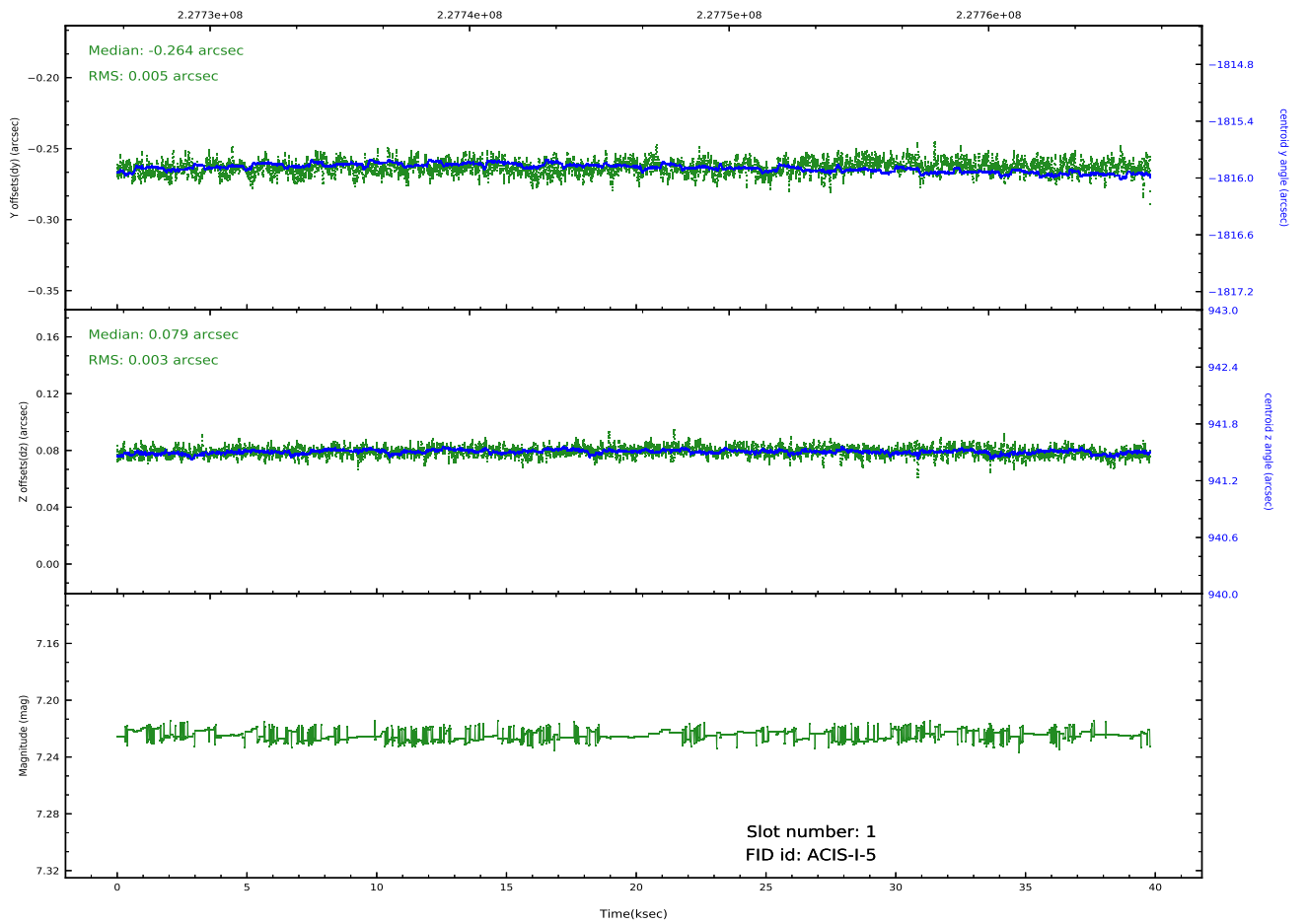
2.5.1 Slot 0



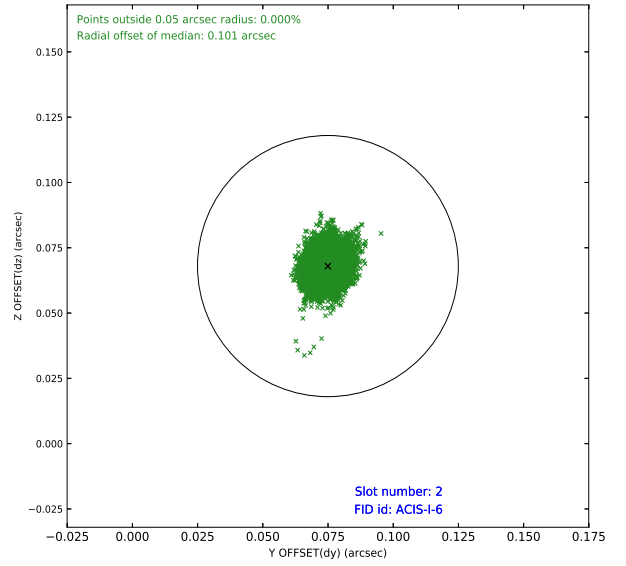
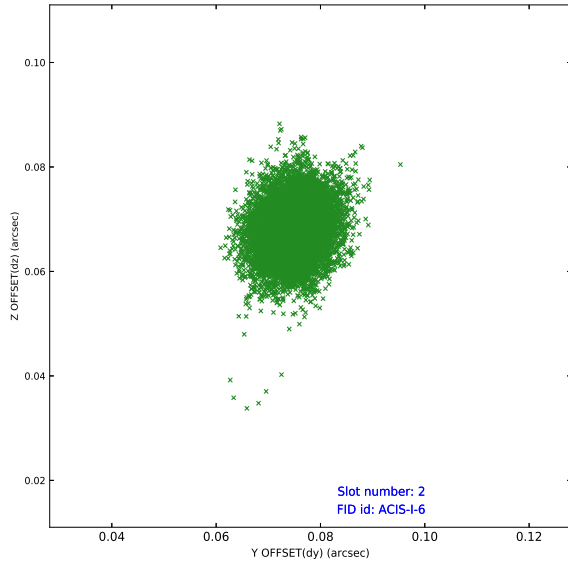
2.5.2 Slot 1



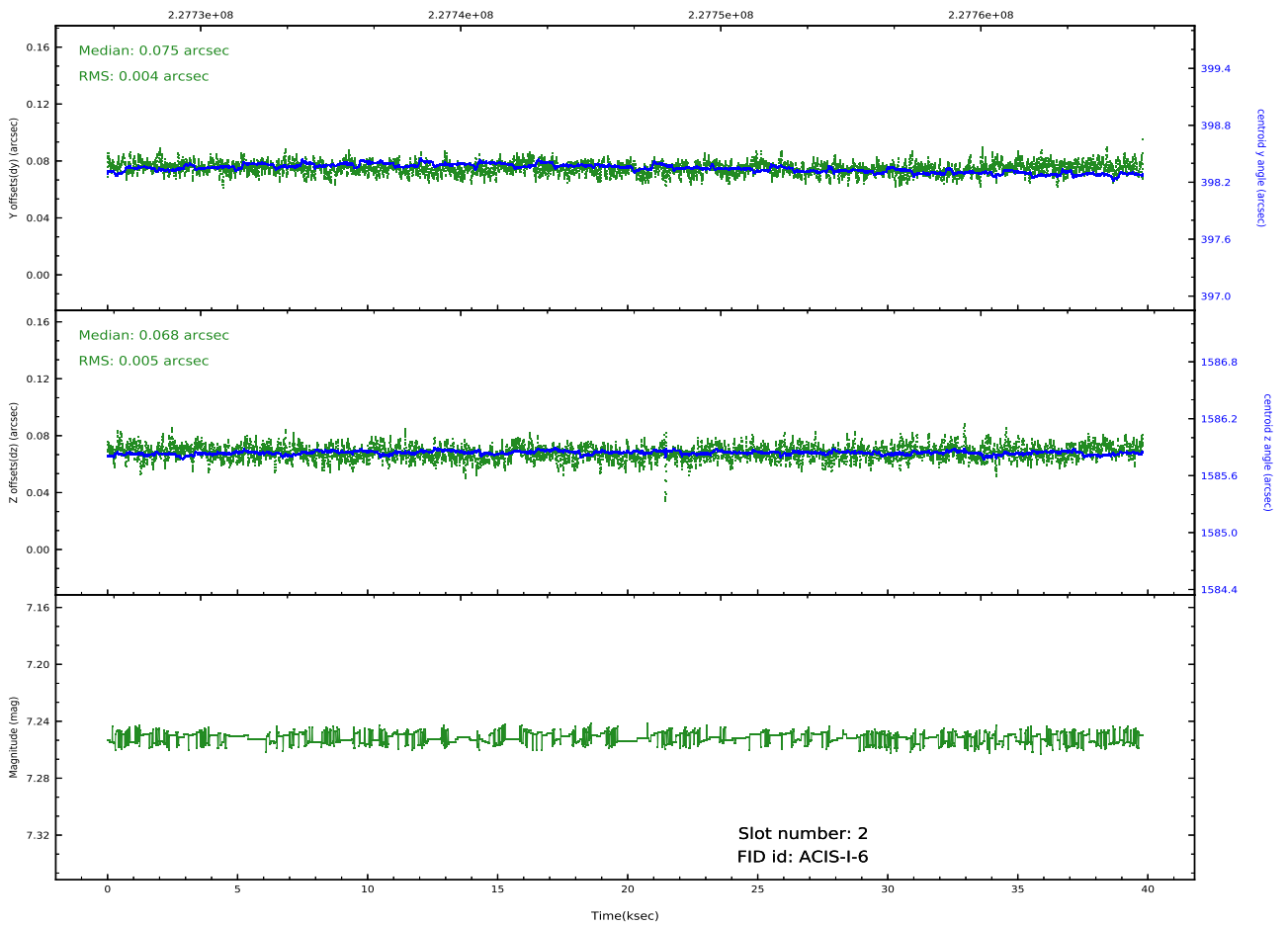
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.67367

A.2 Comments