

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5764 - L2 Version 4
Chandra X-Ray Center

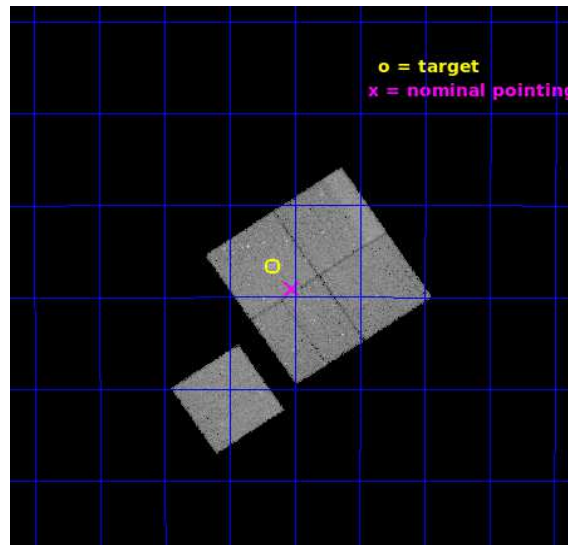
L2 Processing Date : Oct 7 2020

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1 Front

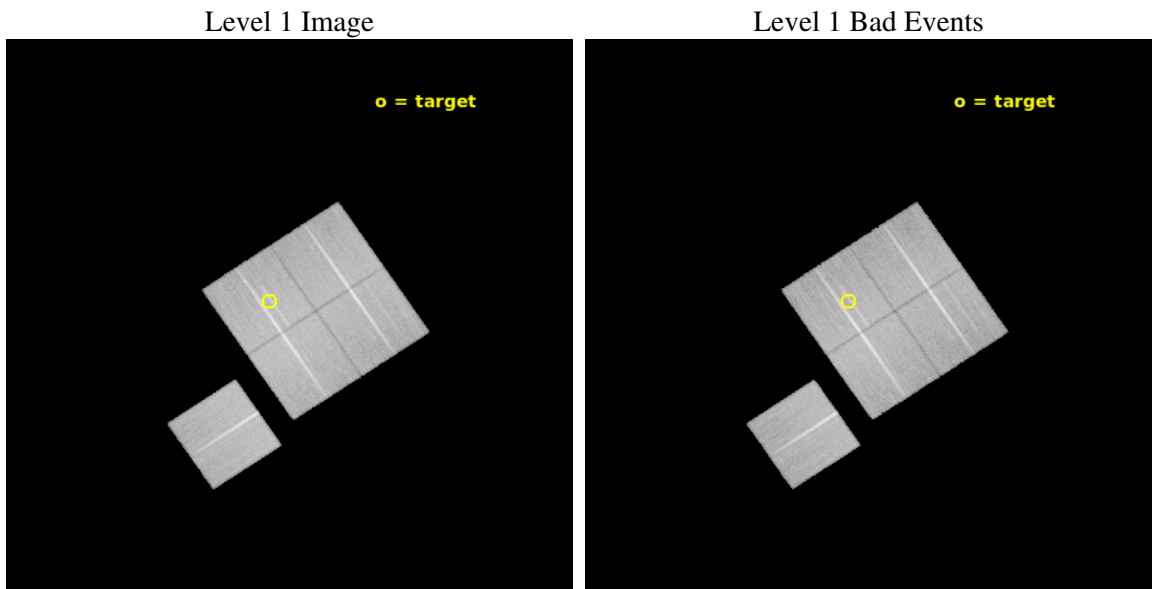
seq_num	800477	Sequence number
obs_id	5764	Observation id
title	DARK ENERGY WITH X-RAY CLUSTERS: CHANDRA OBSERVATIONS OF 41 HIGH-REDSHIFT CLUSTERS FROM THE 400 deg ² ROSAT PSPC SURVEY	Proposal titl
observer	Dr Alexey Vikhlinin	Principal investigator
object	CIG J0333-2456	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.292917	Observer's specified target RA [deg]
dec_targ	-24.944444	Observer's specified target Dec [deg]
ra_nom	53.255524912112	Nominal RA [deg]
dec_nom	-24.984832443697	Nominal Dec [deg]
roll_nom	236.045619261	Nominal Roll [deg]
revision	4	Processing version of data
ontime	44171.817914784	Sum of GTIs [s]
livetime	43594.680594908	Livetime [s]
ontime0	44174.958944738	Sum of GTIs [s]
ontime1	44178.099915028	Sum of GTIs [s]
ontime2	44171.817994535	Sum of GTIs [s]
ontime3	44171.817914784	Sum of GTIs [s]
ontime6	44174.95892489	Sum of GTIs [s]
l2events	160145	Number of level 2 events



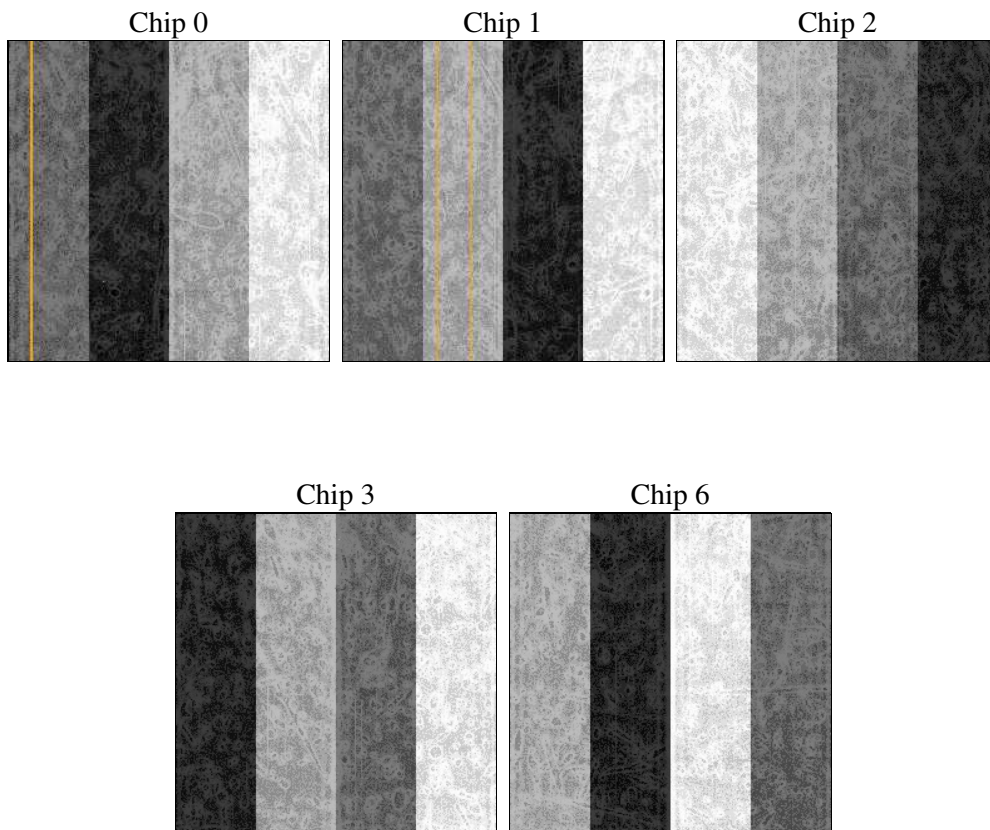
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	44171.817914784	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	44174.958944738	Sum of GTIs [s]
date	2020-10-07T16:28:51	Date and time of file creation	ontime1	44178.099915028	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	44171.817994535	Sum of GTIs [s]
			ontime3	44171.817914784	Sum of GTIs [s]
			ontime6	44174.95892489	Sum of GTIs [s]
			l1events	1420138	Number of level 1 events

2.1.4 Events

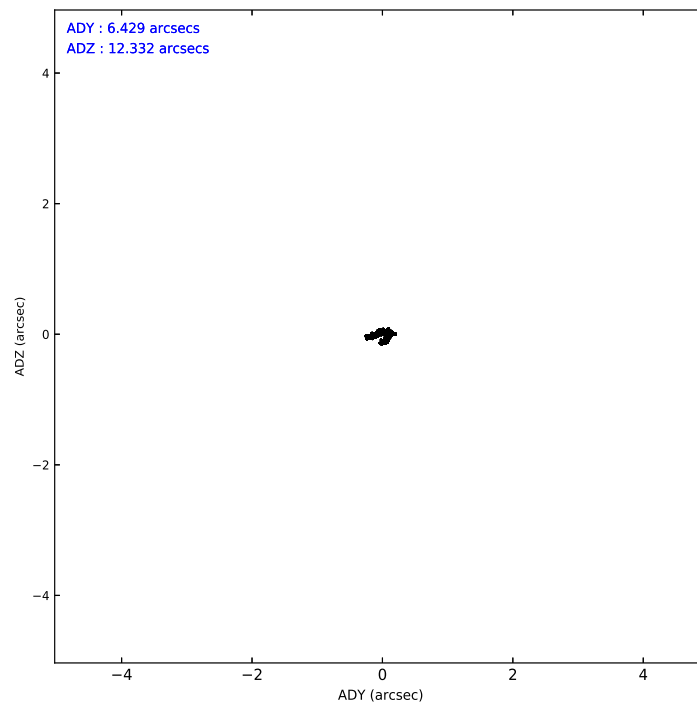
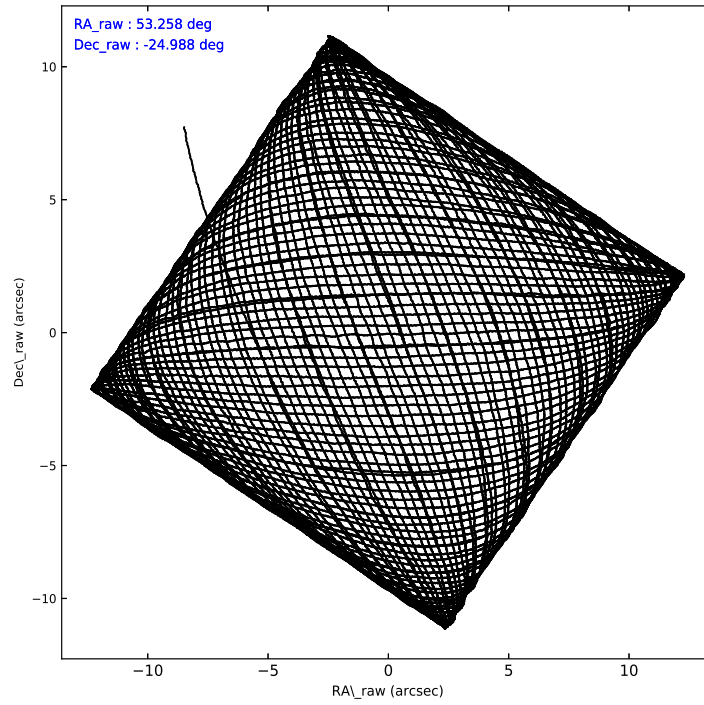
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	266898	268827	301615	288329	294469
rejected events	231102	228212	266160	251156	256241
rejected %	86%	84%	88%	87%	87%

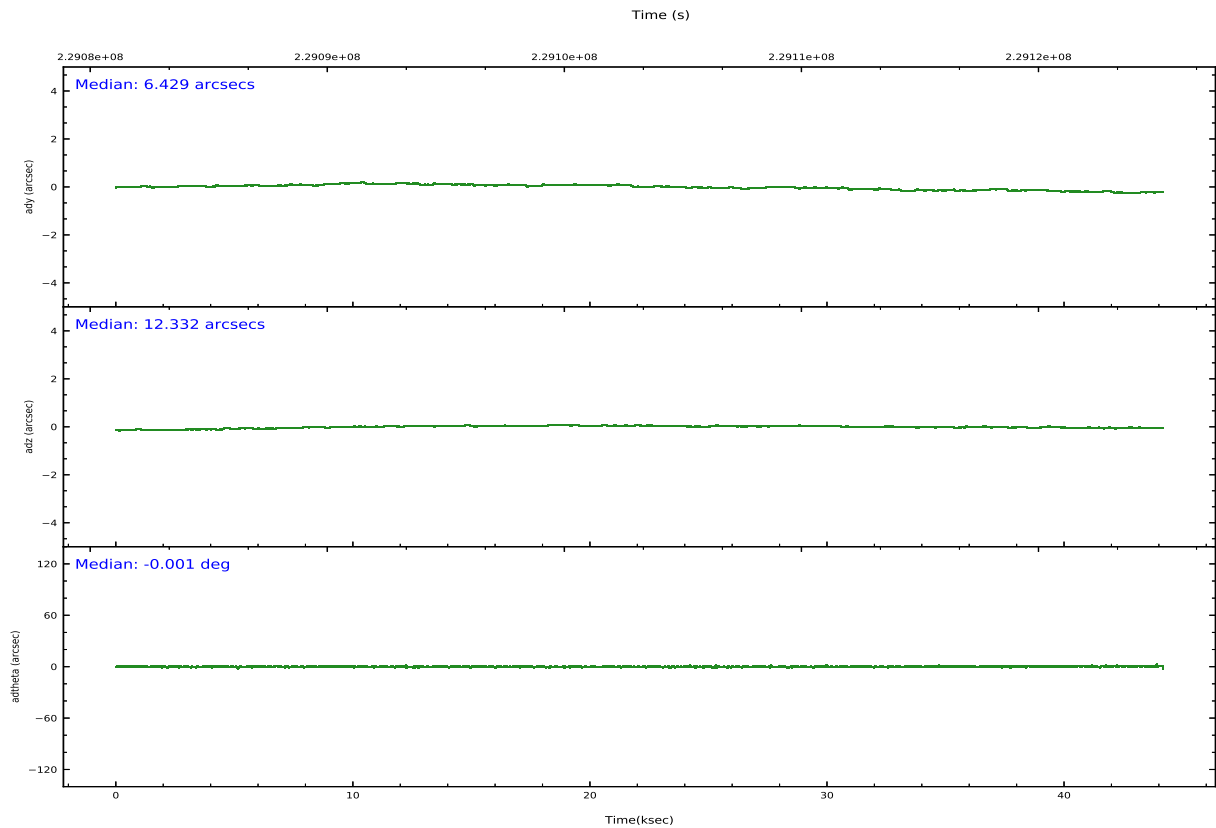
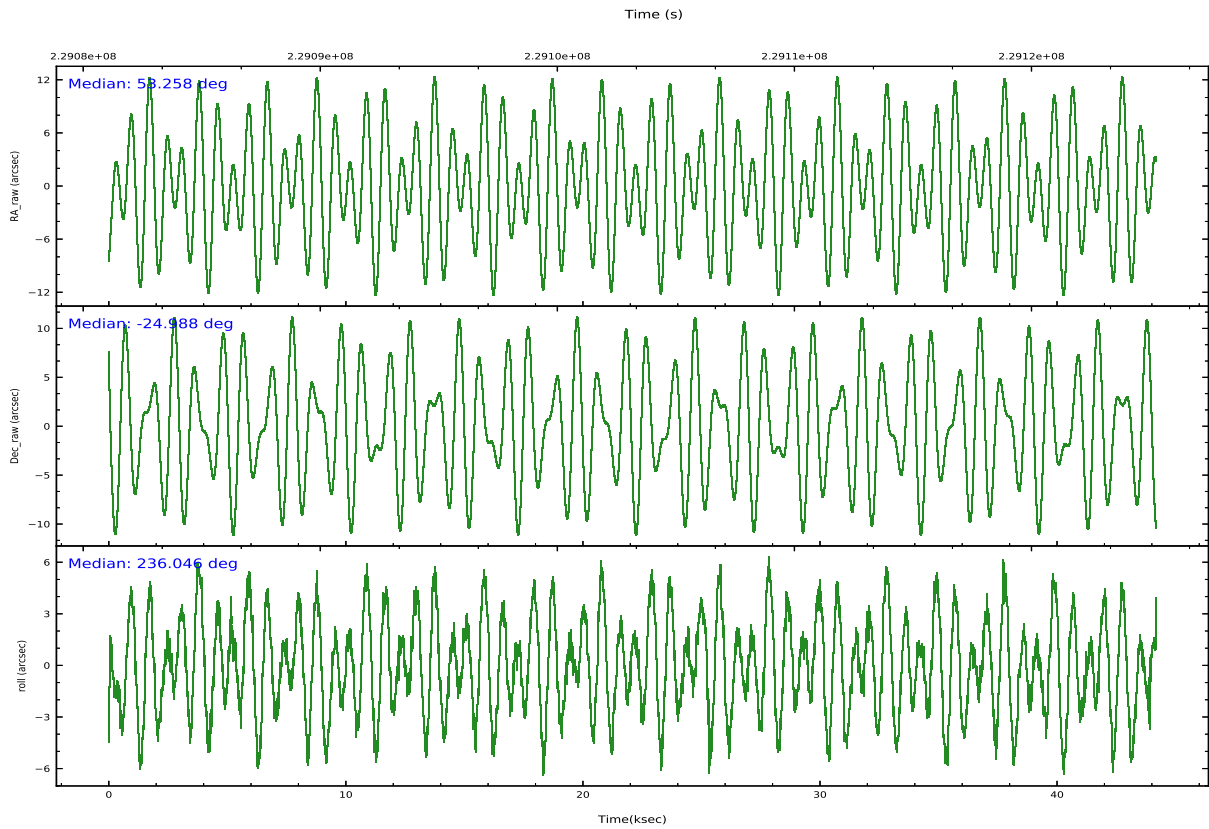
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	14788	17965	15231	16912	16288
	5%	6%	5%	5%	5%
grade 1 events	175	146	209	193	153
	0%	0%	0%	0%	0%
grade 2 events	7774	8158	7646	7210	7523
	2%	3%	2%	2%	2%
grade 3 events	3678	3874	3468	3552	3719
	1%	1%	1%	1%	1%
grade 4 events	3464	3883	3370	3519	3651
	1%	1%	1%	1%	1%
grade 5 events	10081	10686	9639	11302	10993
	3%	3%	3%	3%	3%
grade 6 events	6598	7354	6197	6438	7629
	2%	2%	2%	2%	2%
grade 7 events	220340	216761	255855	239203	244513
	82%	80%	84%	82%	83%

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	53.259631	53.255524912112	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.961026	-24.984832443697	Alternating exposures requested	N	N
[deg] Pointing Roll	235.838819	236.045619261	[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	-225.840463	-225.8433433320239			
[mm] SIM translation stage offset	-7.752	-7.749109670905796			
[s] Observation start time (MET)	229081258.184000	229079897.78099			
Observation start date	2005-04-05T09:39:54	2005-04-05T09:18:17			
[s] Observation end time (MET)	229125258.184000	229126307.7331			
Observation end date	2005-04-05T21:53:14	2005-04-05T22:11:47			
Read mode	TIMED	TIMED			

2.3 Aspect





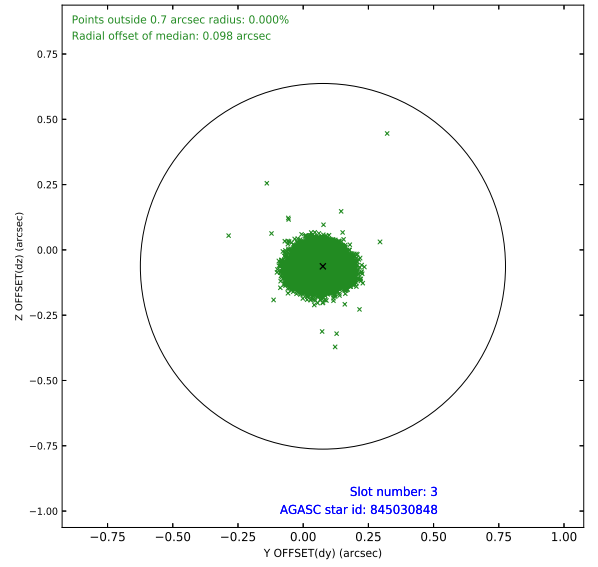
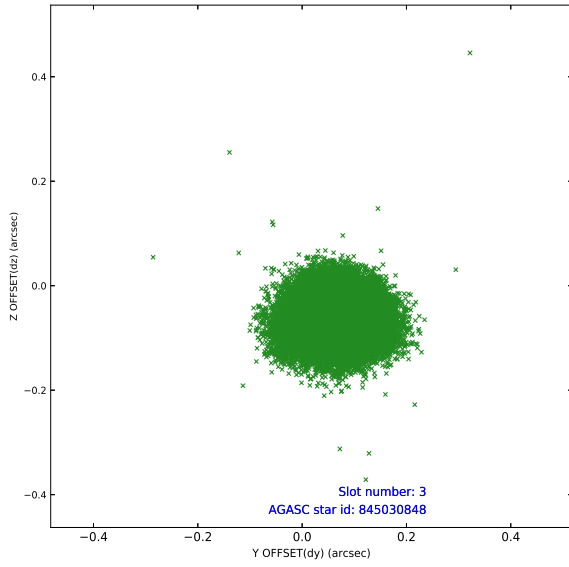
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	10775	1.000	0.133	-0.111	0.007	0.012	0.000000	0.000000	933.26	-995
1	FID		ACIS-I-5	7.22	10777	1.000	-0.263	0.112	0.008	0.014	0.000000	0.000000	-1815.22	902
2	FID		ACIS-I-6	7.25	10775	1.000	0.039	0.070	0.007	0.012	0.000000	0.000000	398.74	1547
3	GUIDE	used	845030848	7.45	21553	1.000	0.076	-0.063	0.070	0.111	53.109937	-24.616416	-751.11	-1101
4	GUIDE	used	845284000	9.06	21538	1.000	0.119	0.005	0.067	0.108	52.995169	-25.542854	2216.46	466
5	GUIDE	used	845024432	8.27	21544	1.000	-0.014	0.029	0.051	0.085	53.880799	-24.561353	-2328.62	877
6	GUIDE	used	845027080	9.01	21543	1.000	0.047	0.053	0.092	0.150	54.123172	-24.962599	-1570.06	2340
7	GUIDE	used	845421488	6.21	21552	1.000	-0.220	-0.029	0.050	0.077	53.111135	-25.658502	2348.34	1011

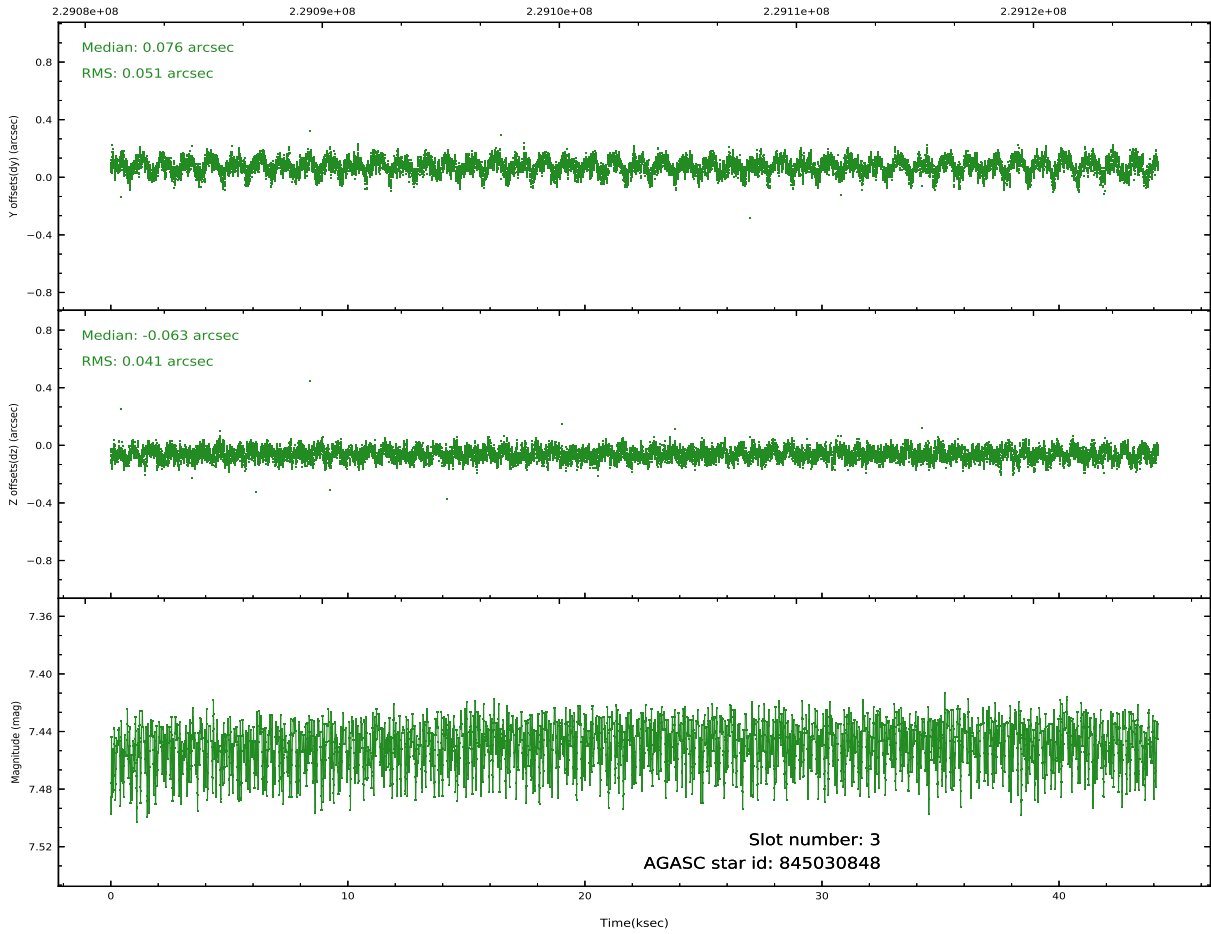
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2.4 Star Slots

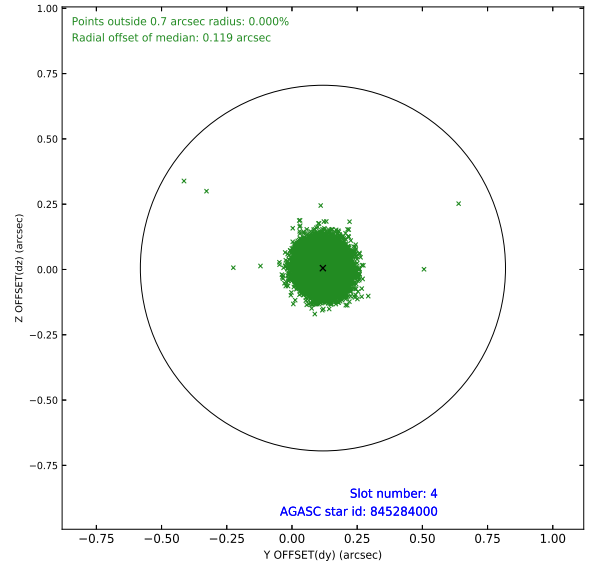
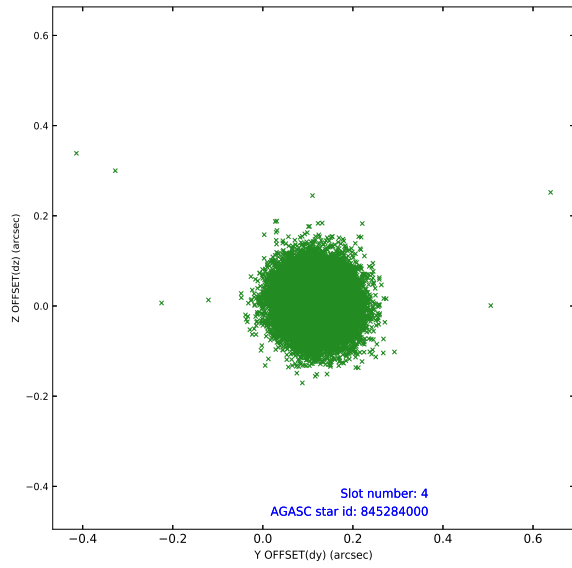
2.4.1 Slot 3



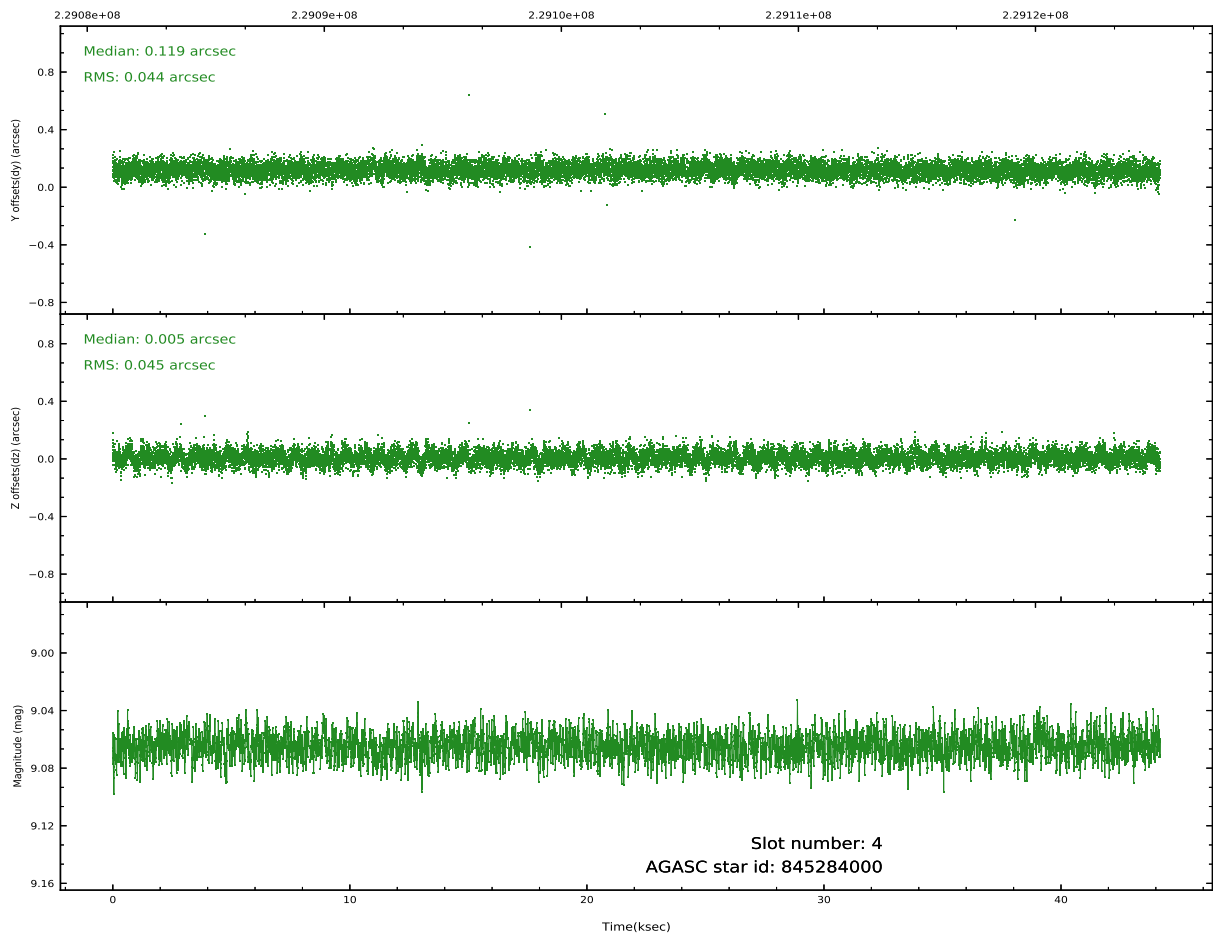
Time (s)



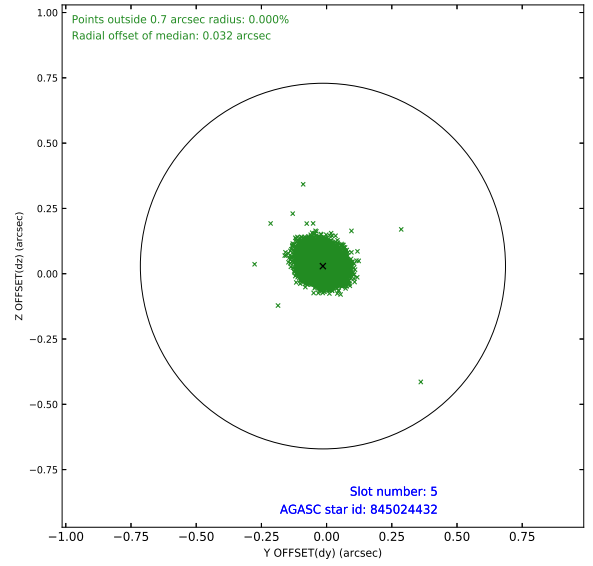
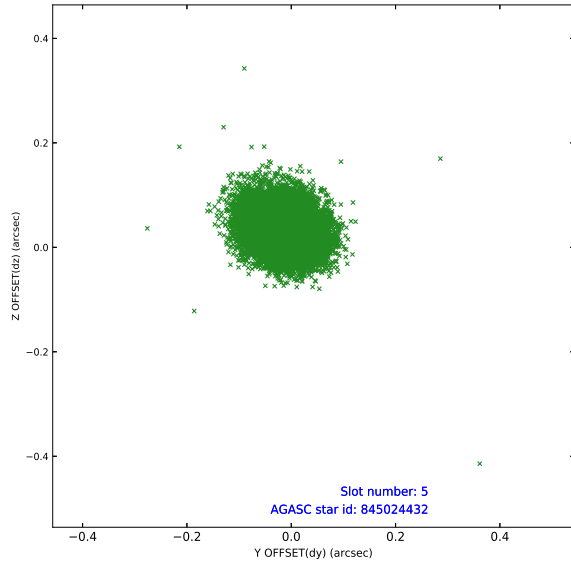
2.4.2 Slot 4



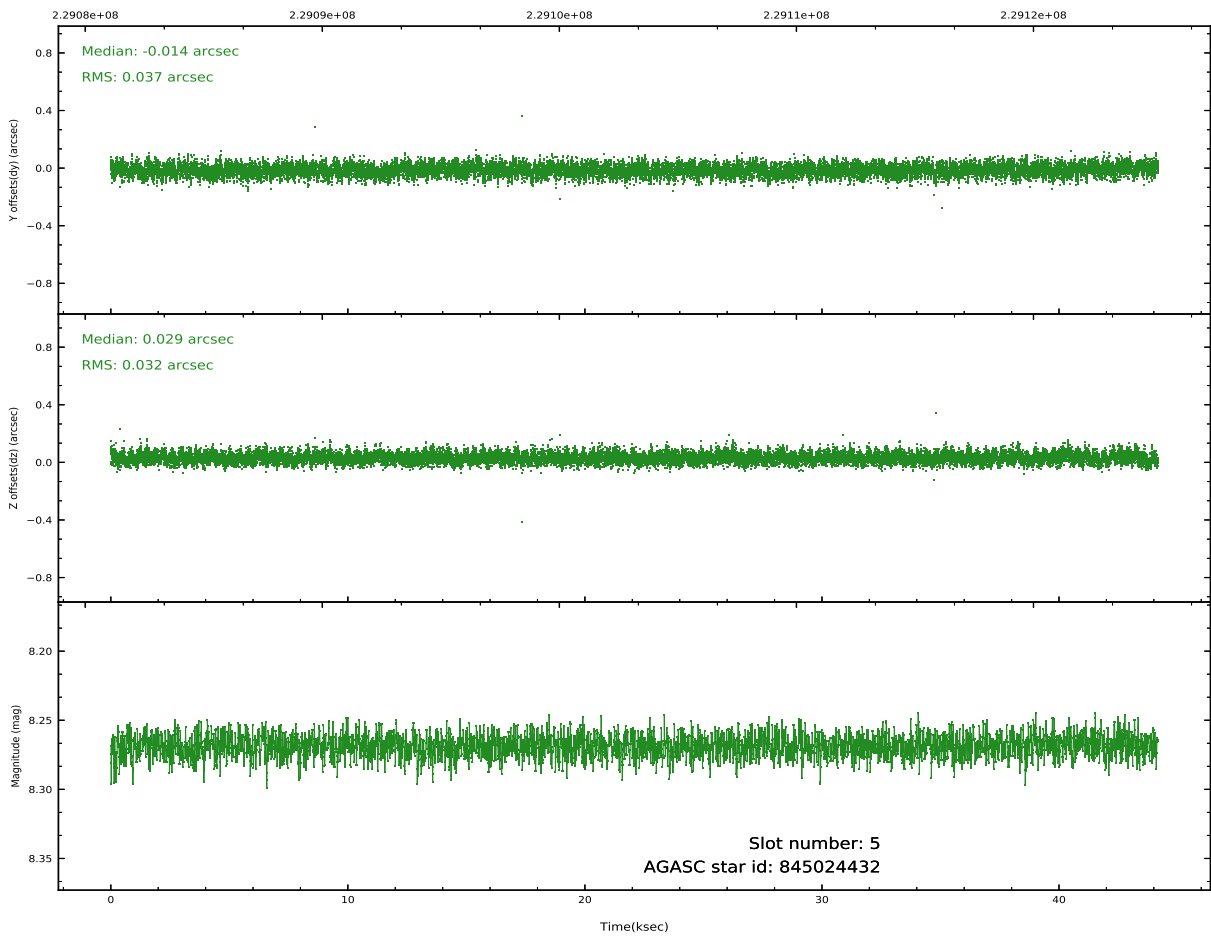
Time (s)



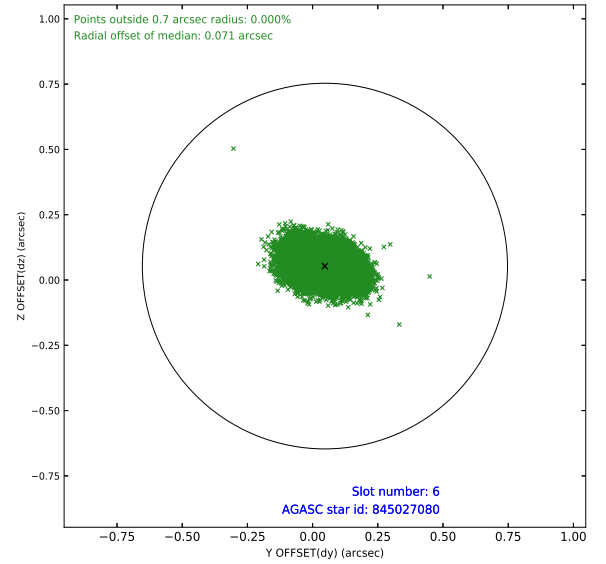
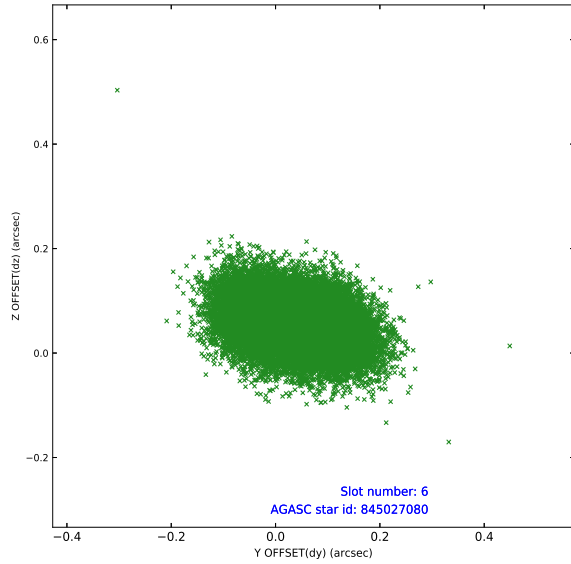
2.4.3 Slot 5



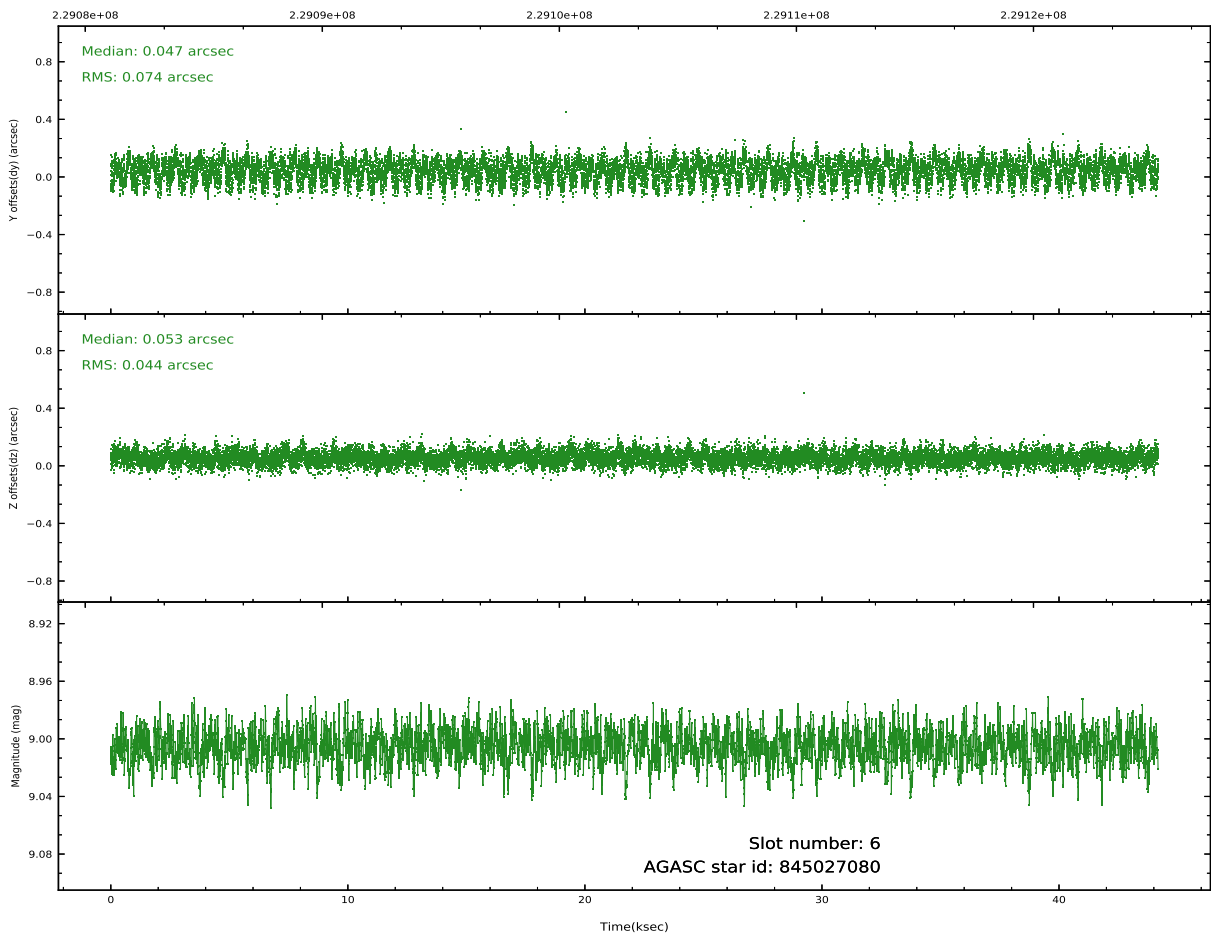
Time (s)



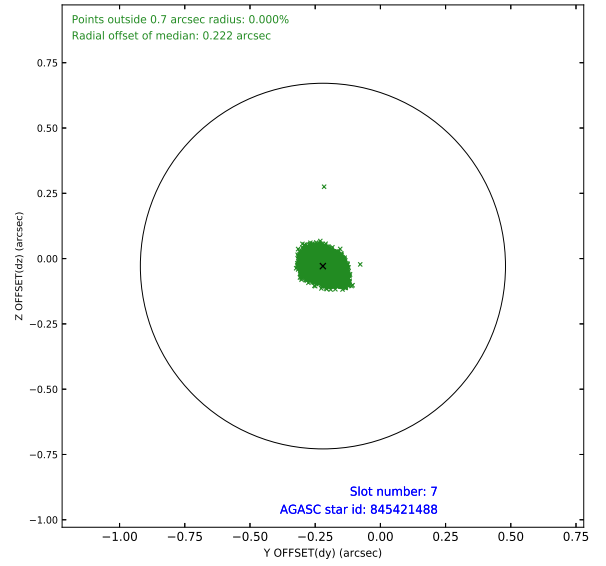
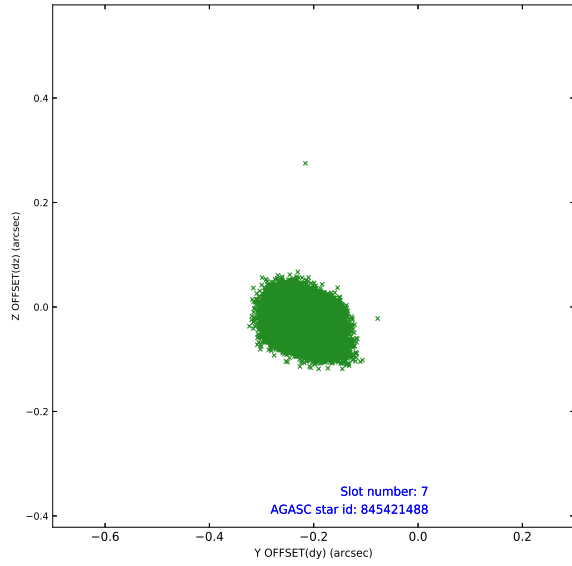
2.4.4 Slot 6



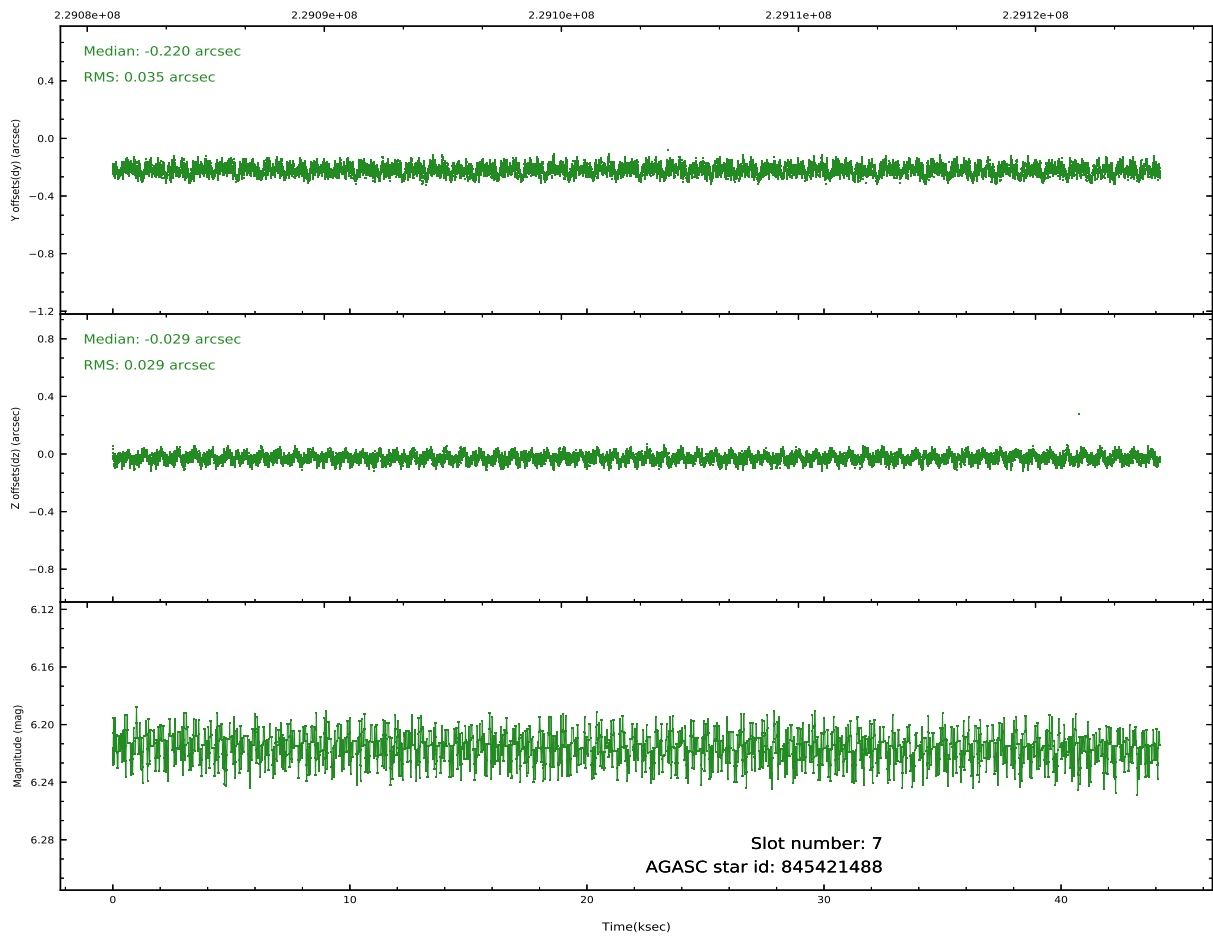
Time (s)



2.4.5 Slot 7

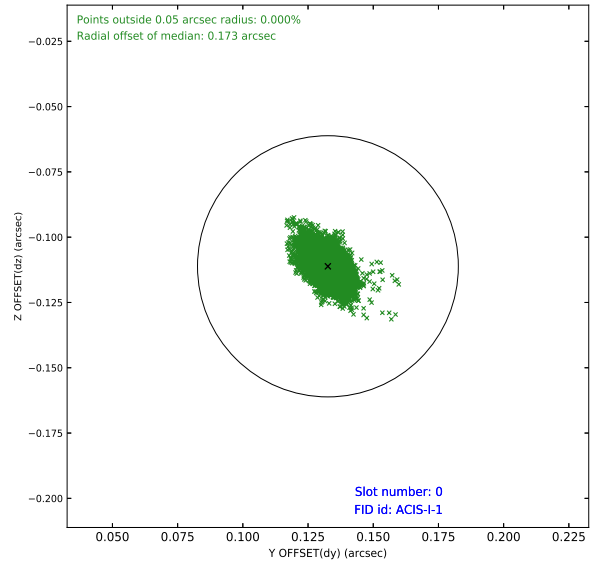
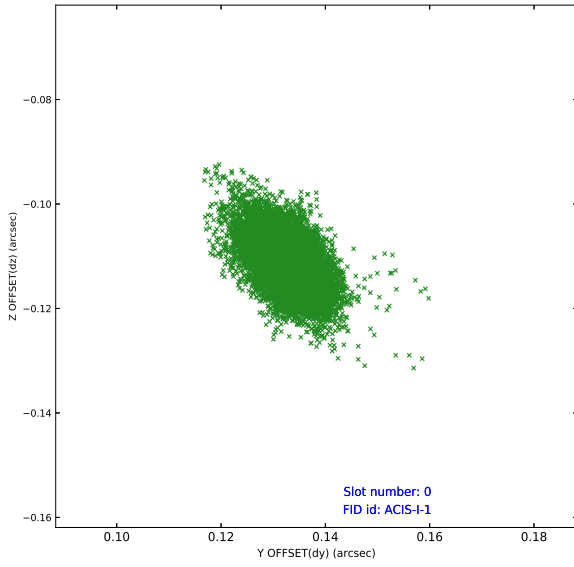


Time (s)

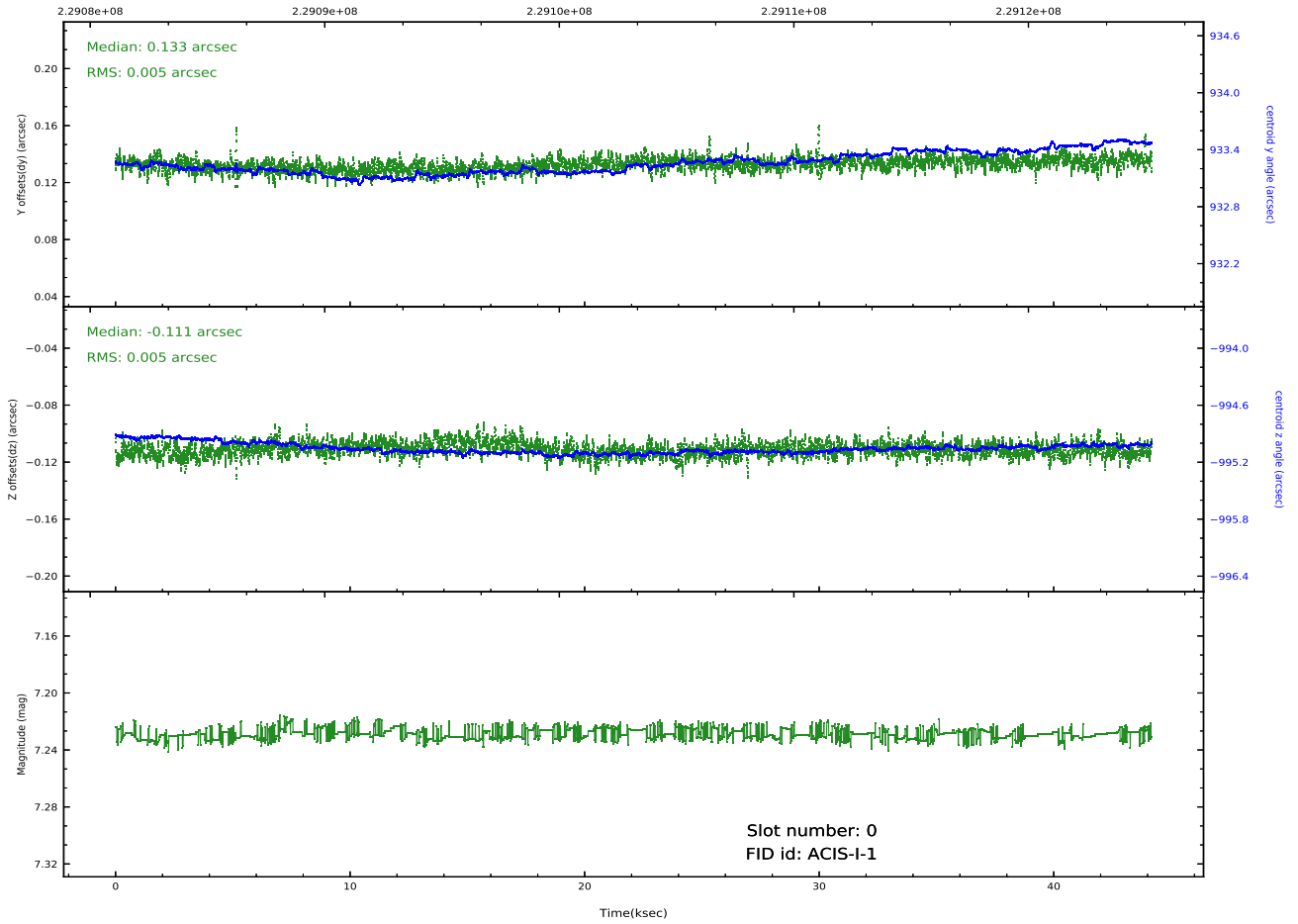


2.5 FID Slots

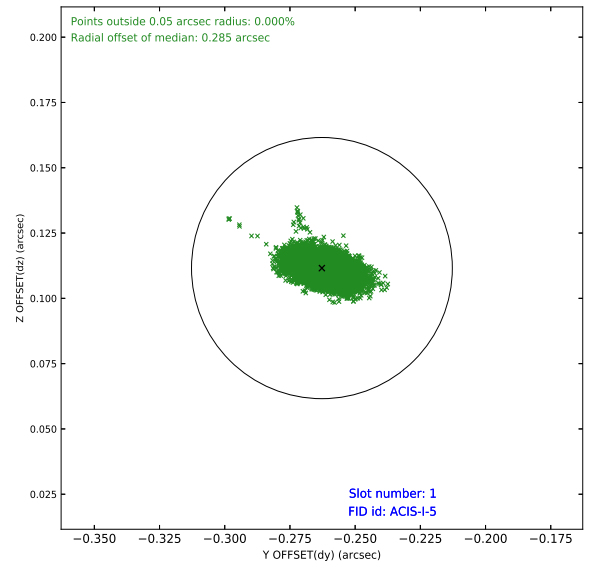
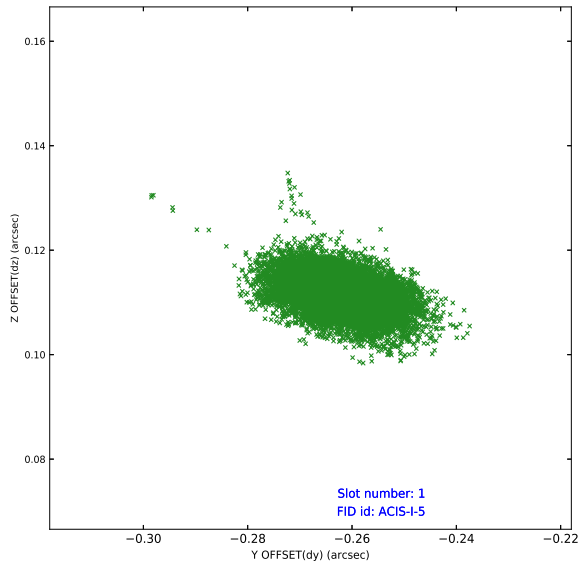
2.5.1 Slot 0



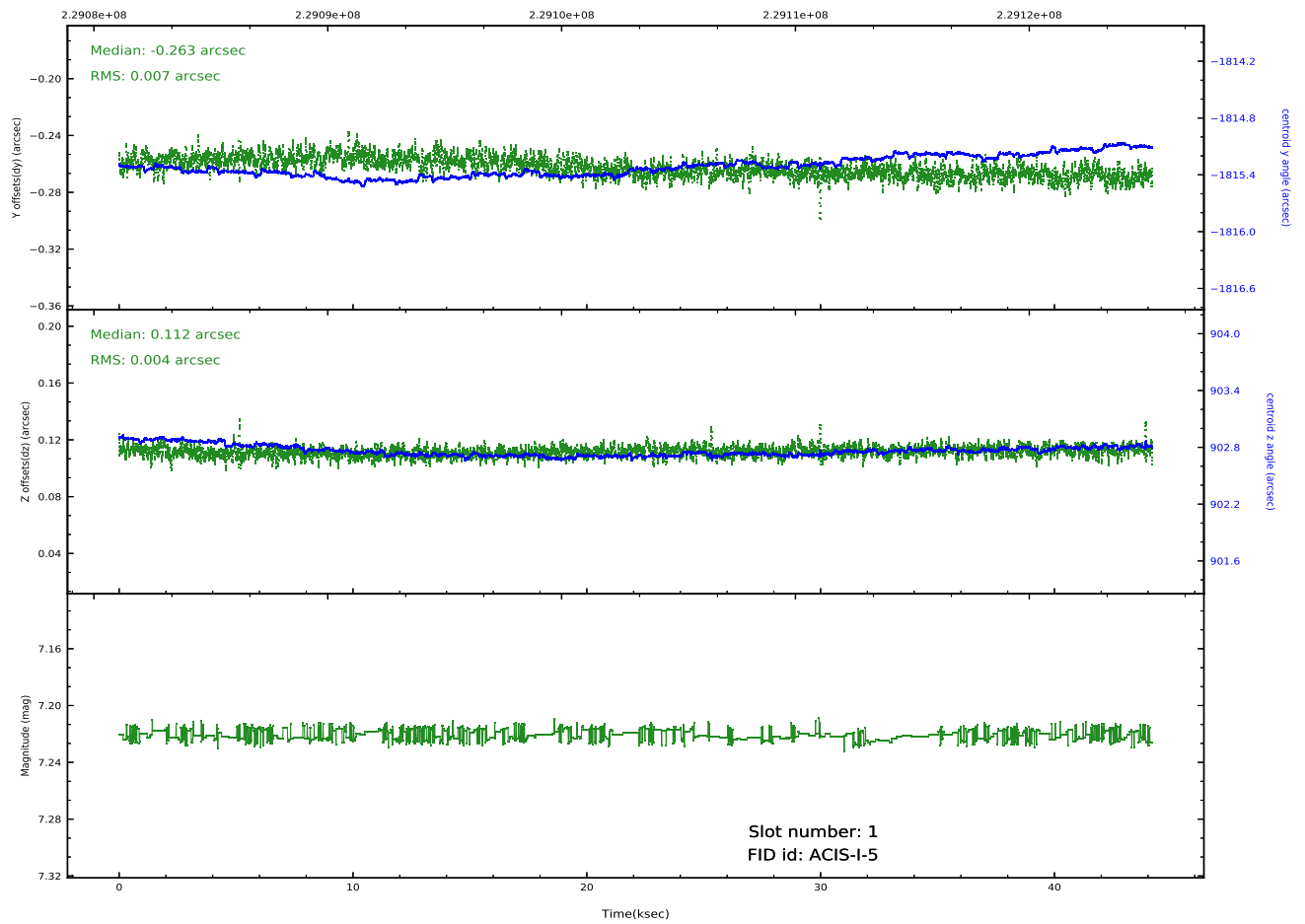
Time (s)



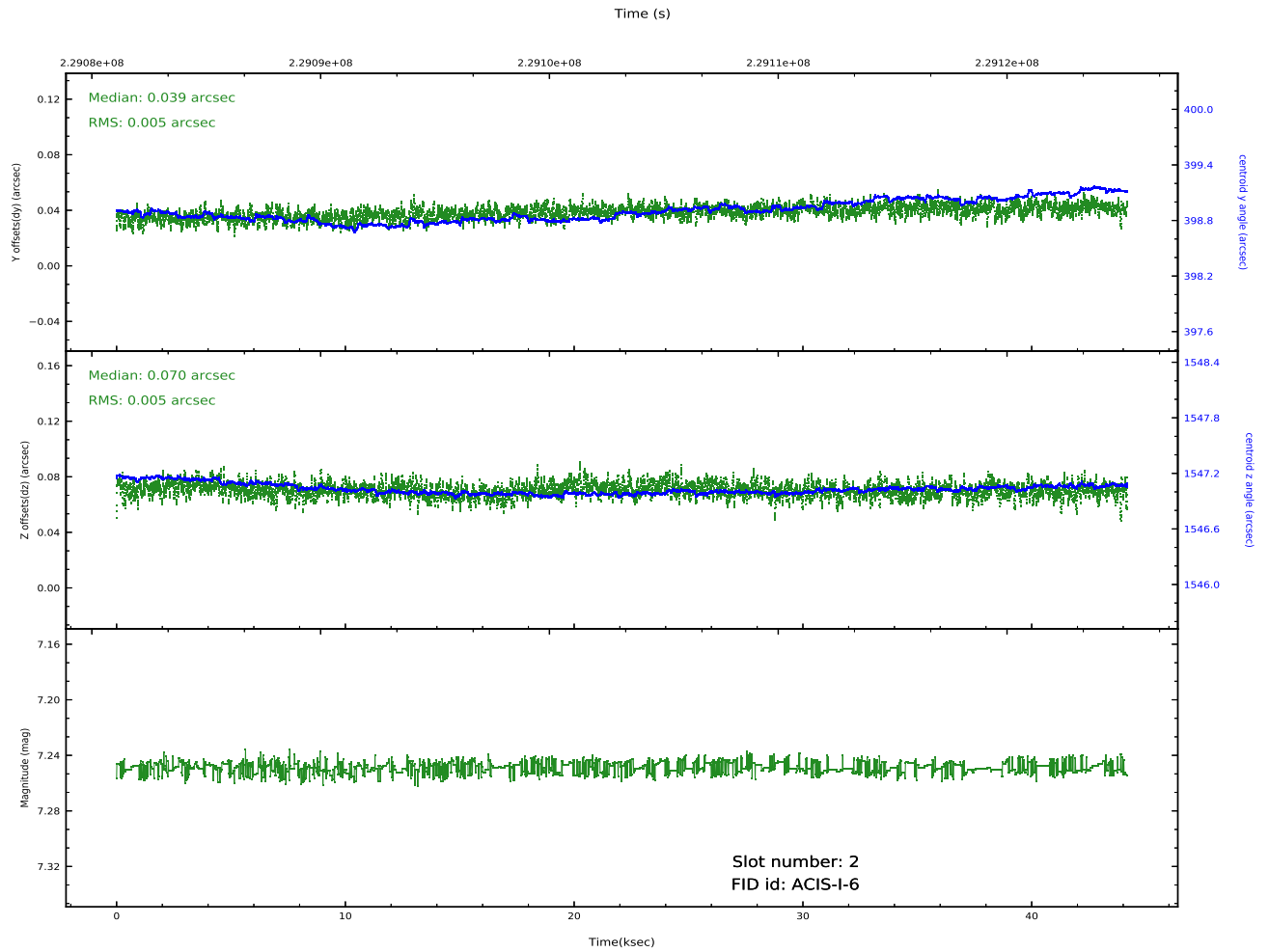
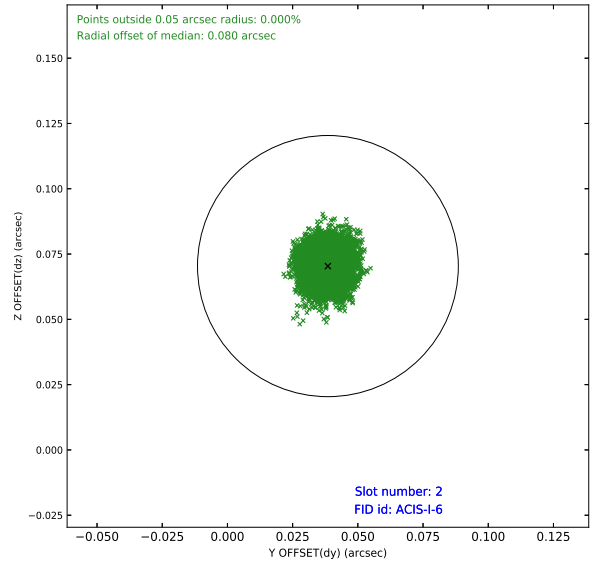
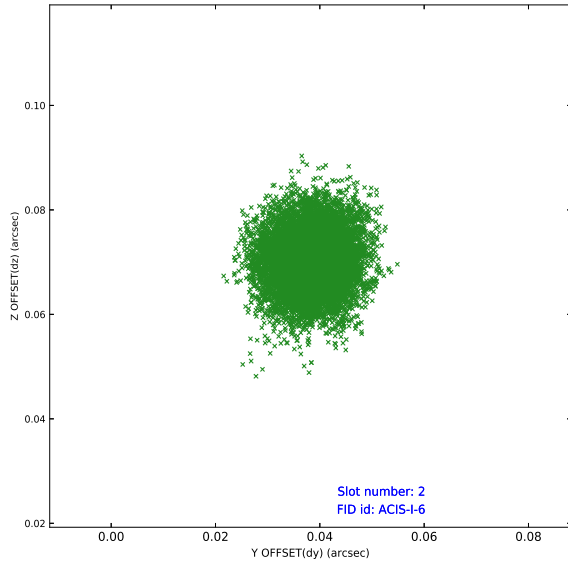
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



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	44.17181

A.2 Comments