

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5844 - L2 Version 4
Chandra X-Ray Center

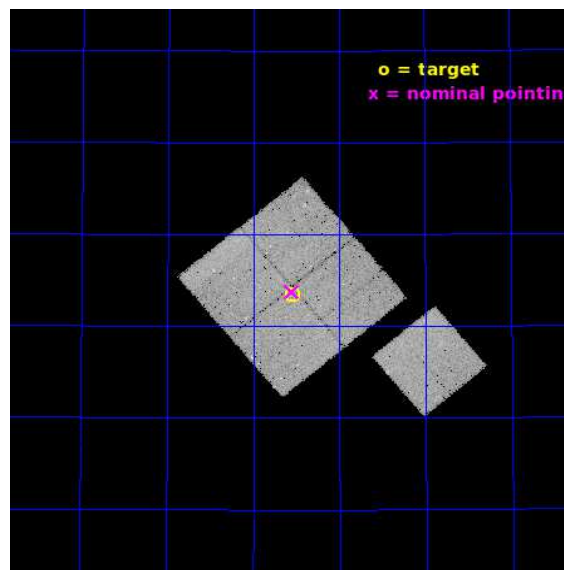
L2 Processing Date : Oct 7 2020

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1 Front

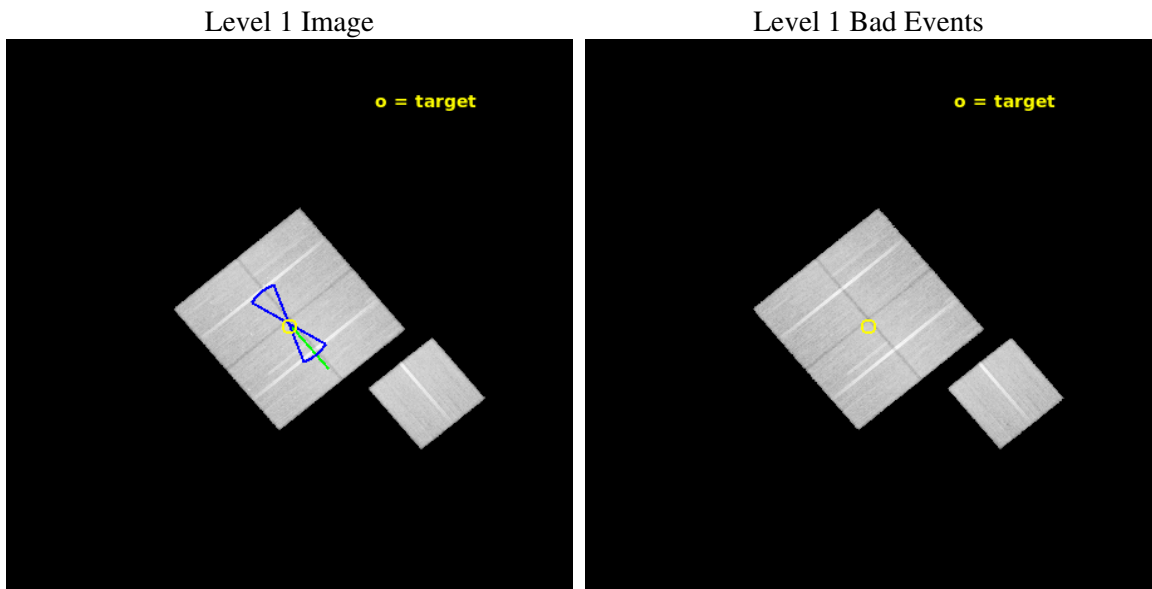
seq_num	900349	Sequence number
obs_id	5844	Observation id
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	Extended Groth Strip (EGS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.386246	Observer's specified target RA [deg]
dec_targ	53.224361	Observer's specified target Dec [deg]
ra_nom	215.3878743232	Nominal RA [deg]
dec_nom	53.229451212626	Nominal Dec [deg]
roll_nom	140.14150172649	Nominal Roll [deg]
revision	4	Processing version of data
ontime	46453.376960039	Sum of GTIs [s]
livetime	45846.429391578	Livetime [s]
ontime0	46450.236079186	Sum of GTIs [s]
ontime1	46447.094929785	Sum of GTIs [s]
ontime2	46453.376940042	Sum of GTIs [s]
ontime3	46453.376960039	Sum of GTIs [s]
ontime6	46462.799910635	Sum of GTIs [s]
l2events	119010	Number of level 2 events



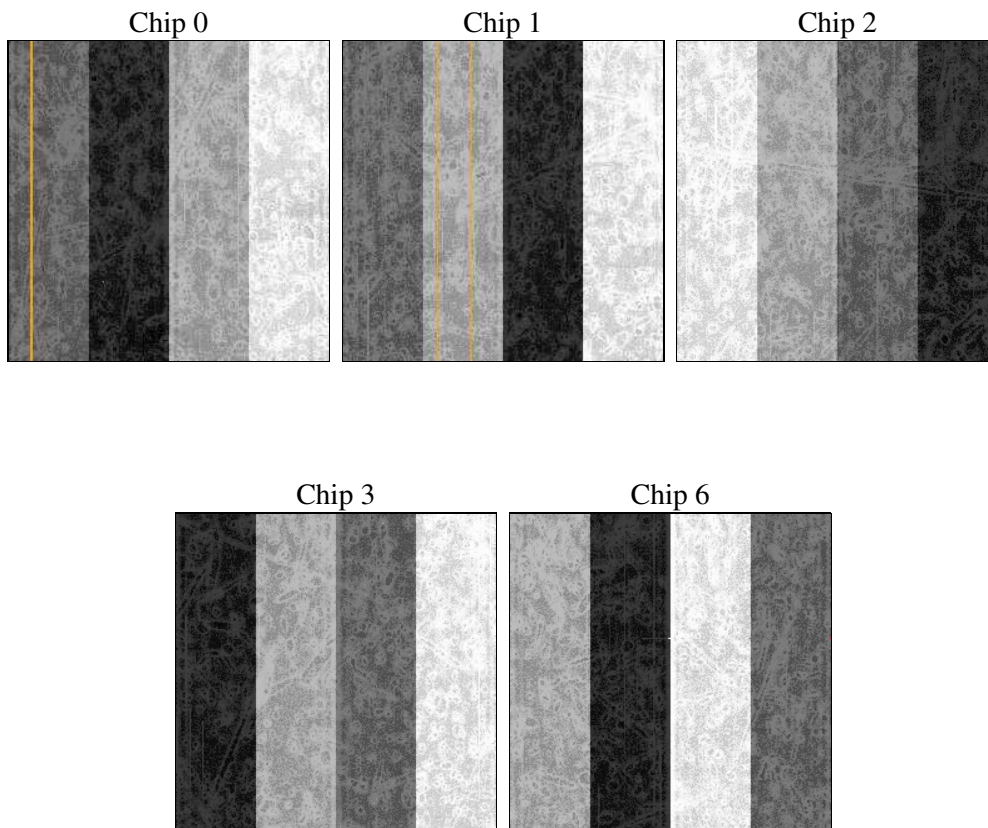
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46400.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	46453.376960039	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	46450.236079186	Sum of GTIs [s]
date	2020-10-07T10:40:12	Date and time of file creation	ontime1	46447.094929785	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	46453.376940042	Sum of GTIs [s]
			ontime3	46453.376960039	Sum of GTIs [s]
			ontime6	46462.799910635	Sum of GTIs [s]
			l1events	1397942	Number of level 1 events

2.1.4 Events

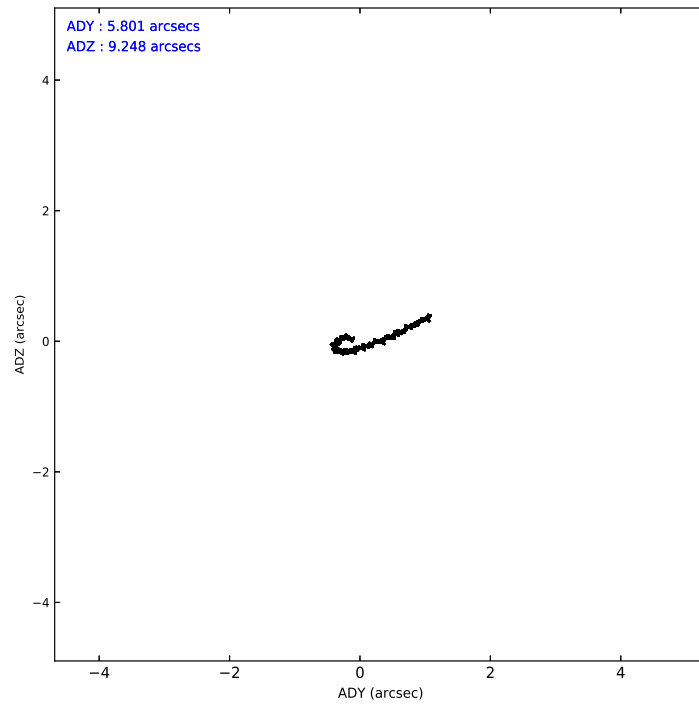
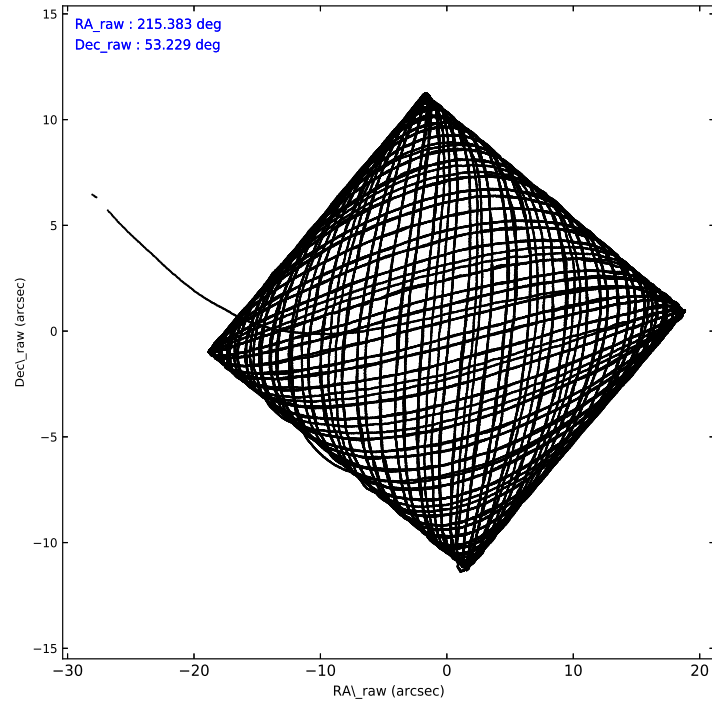
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	265619	264896	295093	281844	290490
rejected events	236651	232994	267759	255118	261391
rejected %	89%	87%	90%	90%	89%

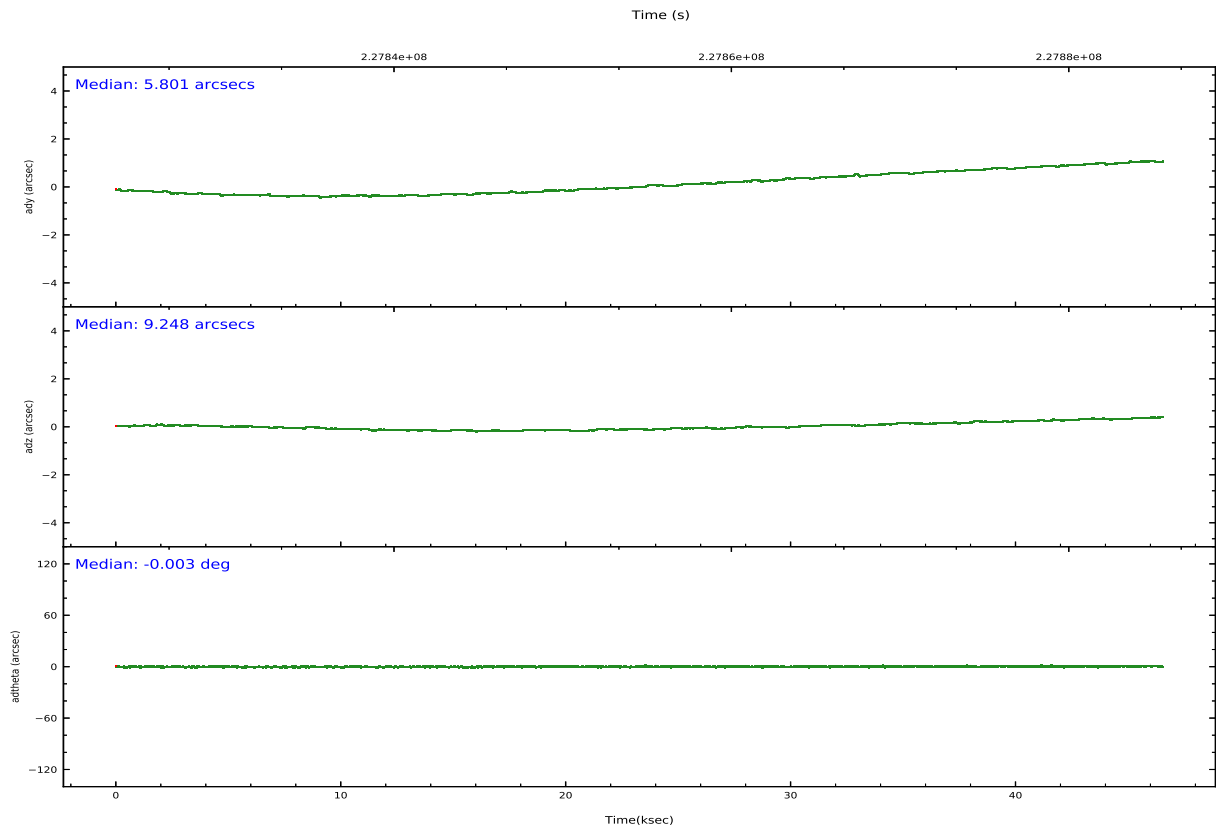
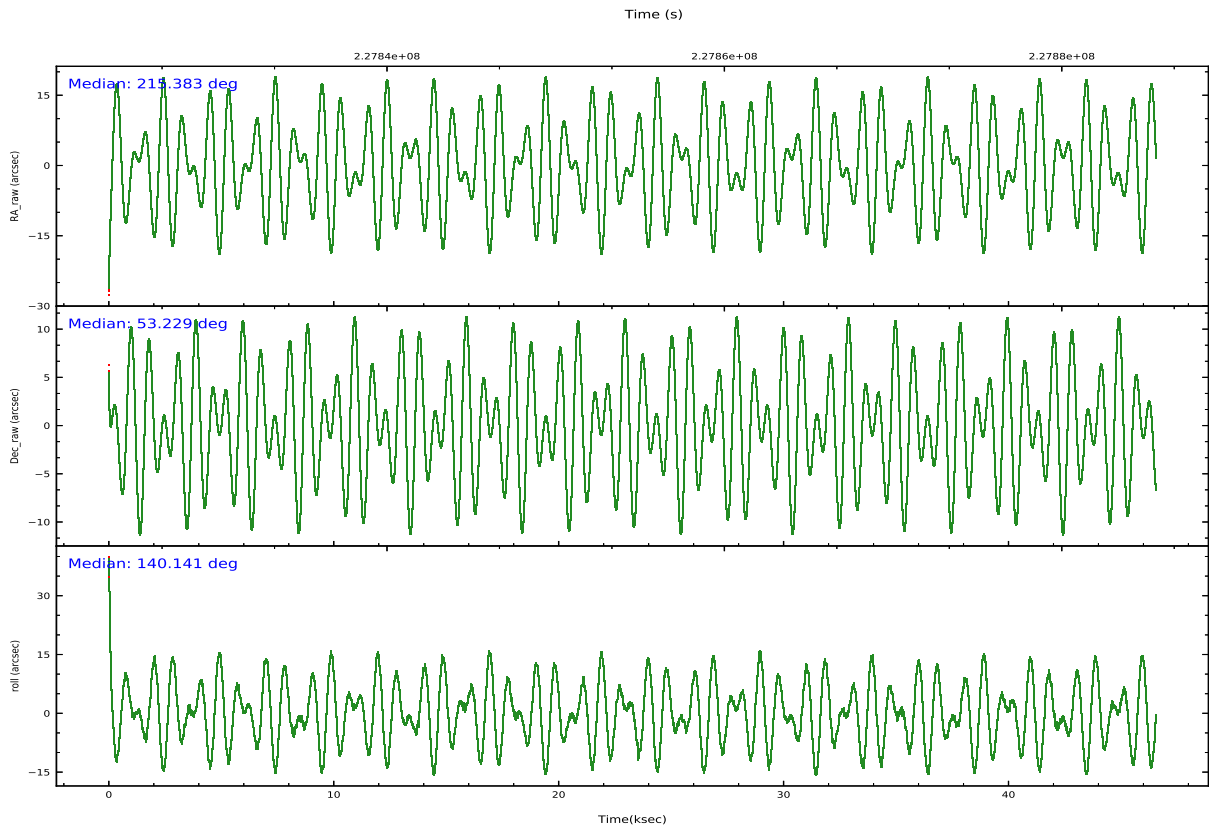
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10105	11587	9477	9358	10087
	3%	4%	3%	3%	3%
grade 1 events	142	133	141	182	117
	0%	0%	0%	0%	0%
grade 2 events	6852	7009	6469	5859	6310
	2%	2%	2%	2%	2%
grade 3 events	3359	3593	2995	3064	3231
	1%	1%	1%	1%	1%
grade 4 events	3143	3457	3135	3162	3152
	1%	1%	1%	1%	1%
grade 5 events	10180	11072	9586	11318	11357
	3%	4%	3%	4%	3%
grade 6 events	5514	6262	5261	5283	6323
	2%	2%	1%	1%	2%
grade 7 events	226324	221783	258029	243618	249913
	85%	83%	87%	86%	86%

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	215.427811	215.3878743232	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.223888	53.229451212626	Alternating exposures requested	N	N
[deg] Pointing Roll	139.898090	140.14150172649	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	50.756000	50.756000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
[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)	227832796.184000	227831860.79934			
Observation start date	2005-03-21T22:52:12	2005-03-21T22:37:40			
[s] Observation end time (MET)	227879196.184000	227879652.96401			
Observation end date	2005-03-22T11:45:32	2005-03-22T11:54:12			
Read mode	TIMED	TIMED			

2.3 Aspect





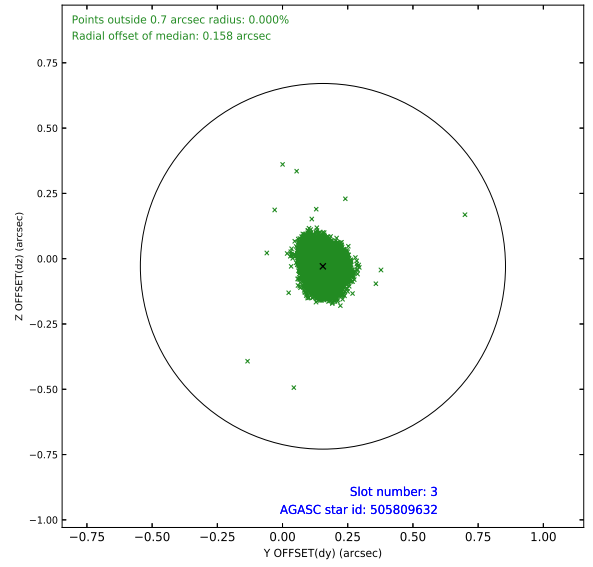
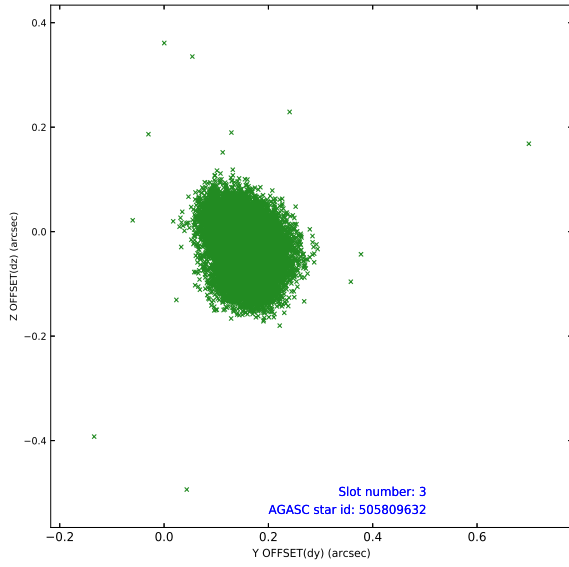
Slot Statistics

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	7.24	11358	1.000	0.013	0.015	0.010	0.015	0.000000	0.000000	933.79	-832
1	FID		ACIS-I-5	7.23	11358	1.000	-0.198	0.024	0.011	0.018	0.000000	0.000000	-1814.56	1064
2	FID		ACIS-I-6	7.25	11358	1.000	0.094	0.030	0.010	0.018	0.000000	0.000000	399.39	1709
3	GUIDE	used	505809632	8.07	22713	1.000	0.155	-0.029	0.059	0.097	215.499426	53.521185	572.71	-917
4	GUIDE	used	505812088	8.16	22713	1.000	0.026	0.092	0.048	0.079	214.186617	53.263562	2151.43	1595
5	GUIDE	used	505815088	7.28	22714	1.000	-0.010	-0.074	0.056	0.085	216.315963	53.584954	-607.01	-2225
6	GUIDE	used	505815928	8.31	22708	1.000	-0.051	0.059	0.062	0.102	216.234742	53.074559	-1674.60	-720
7	GUIDE	used	505817384	8.07	22705	1.000	-0.121	-0.048	0.073	0.114	216.827424	53.311152	-2080.24	-2202

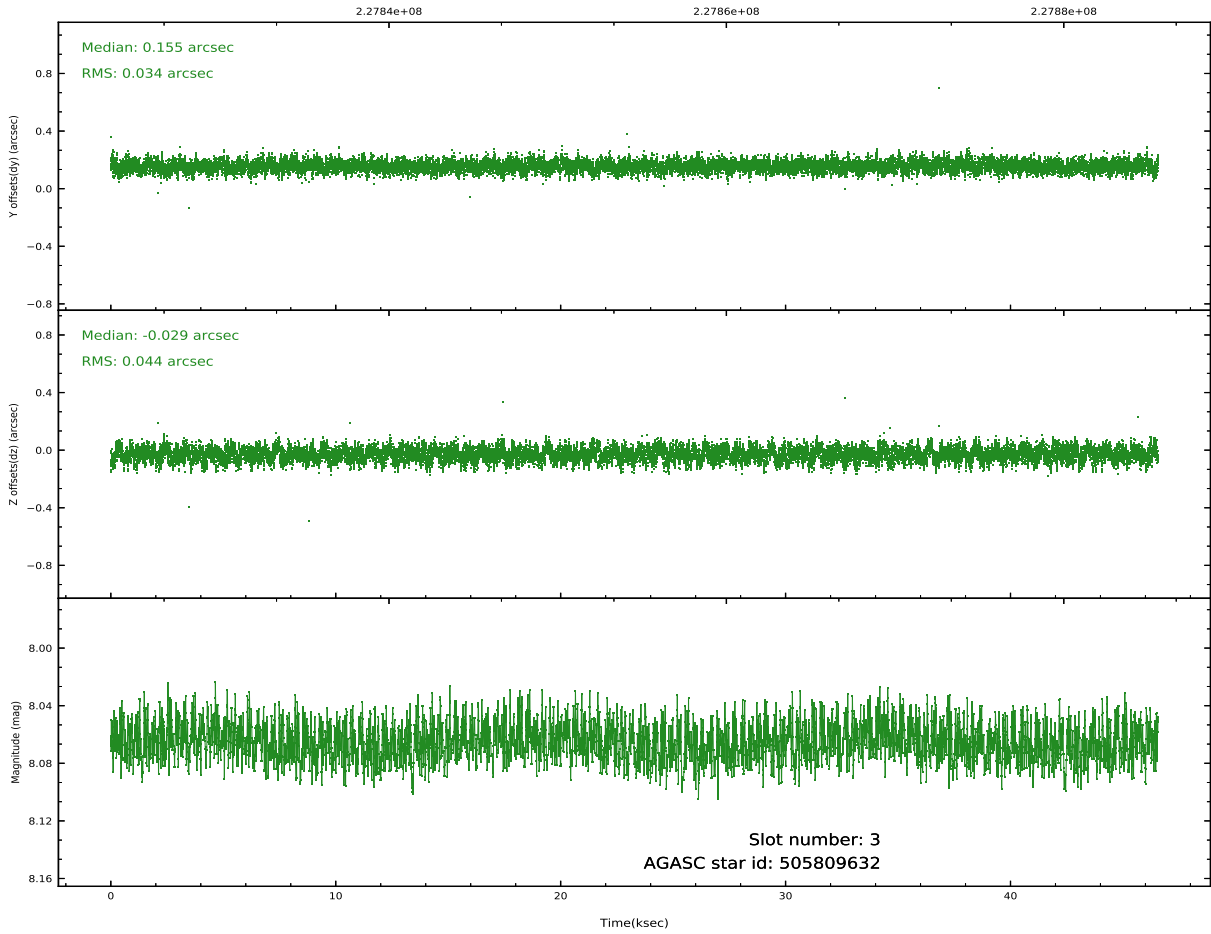
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2.4 Star Slots

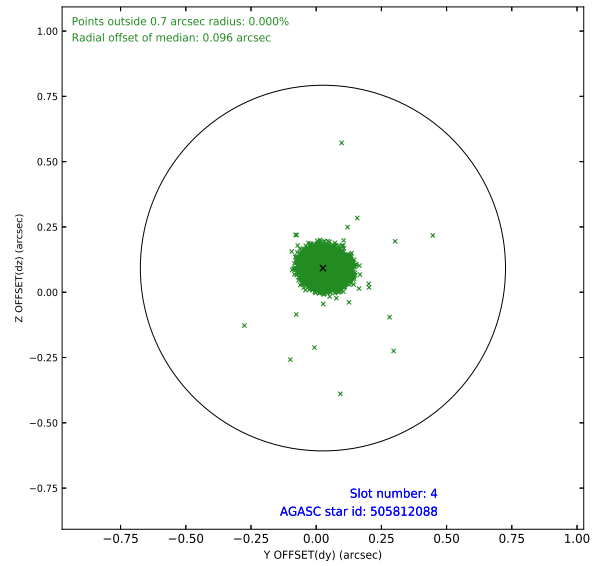
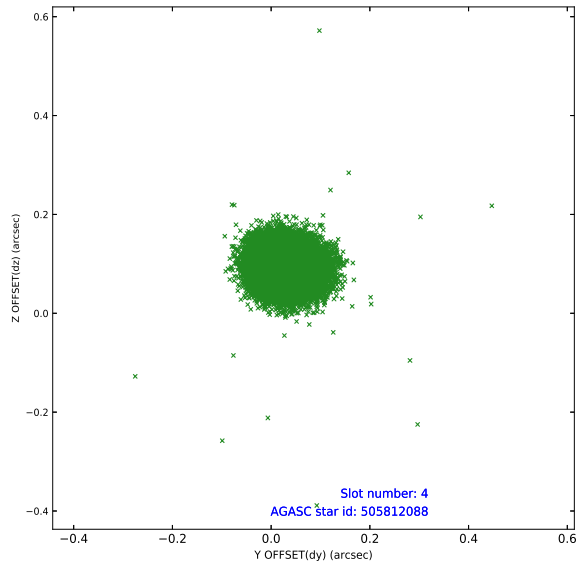
2.4.1 Slot 3



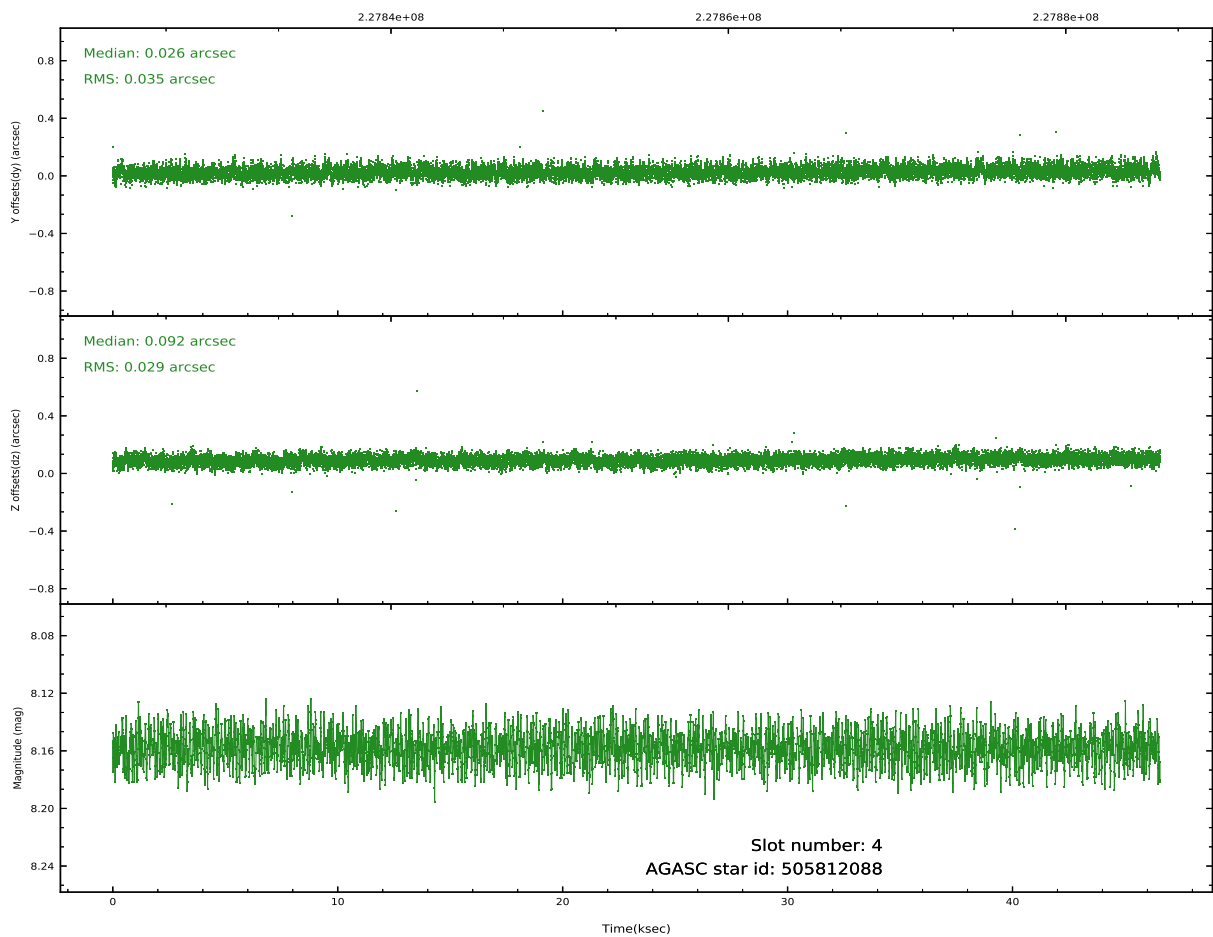
Time (s)



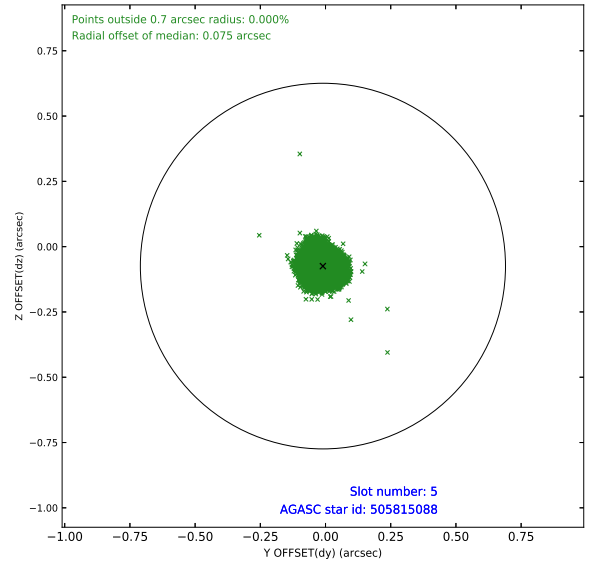
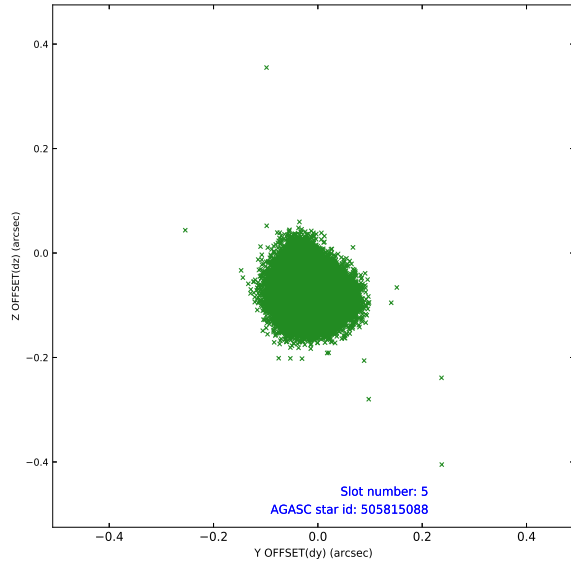
2.4.2 Slot 4



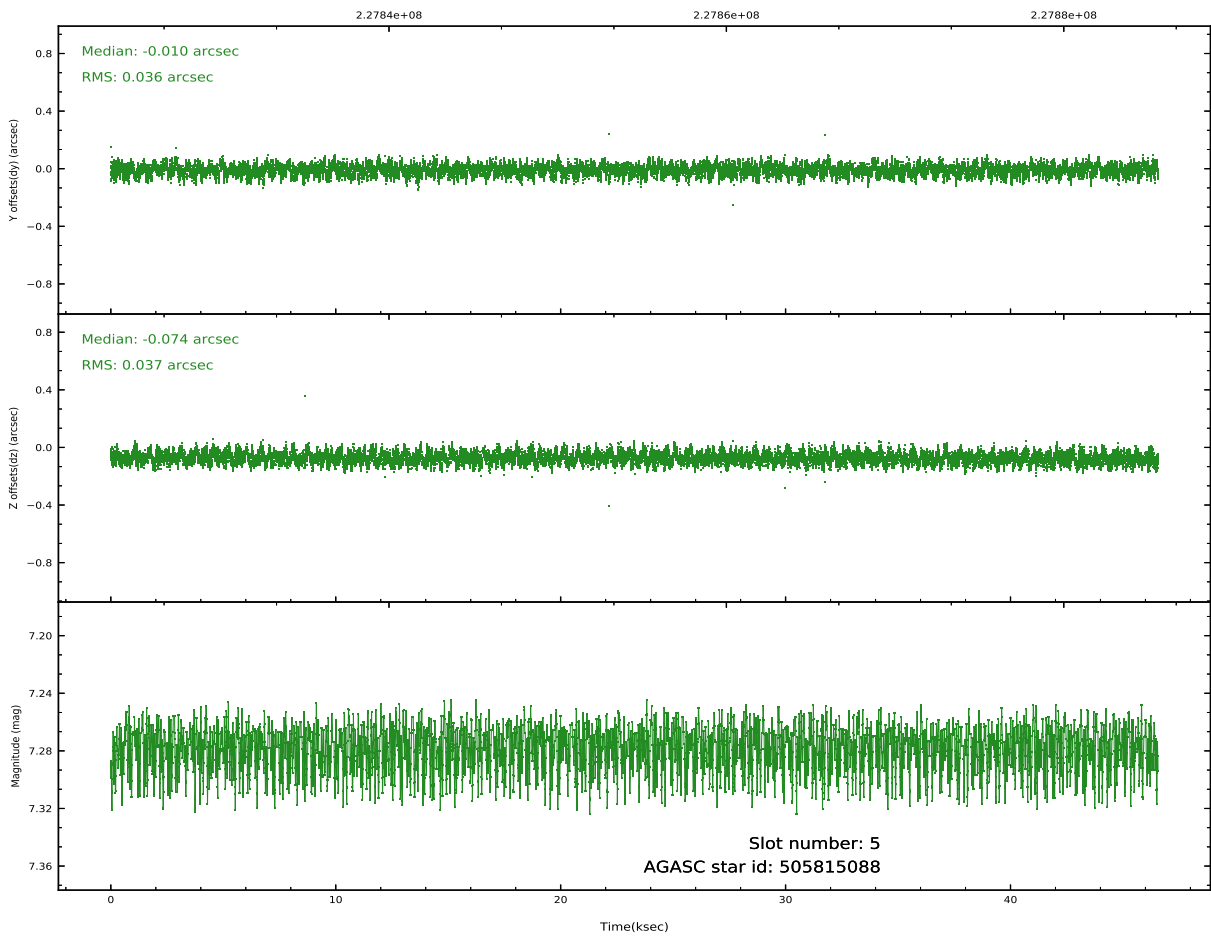
Time (s)



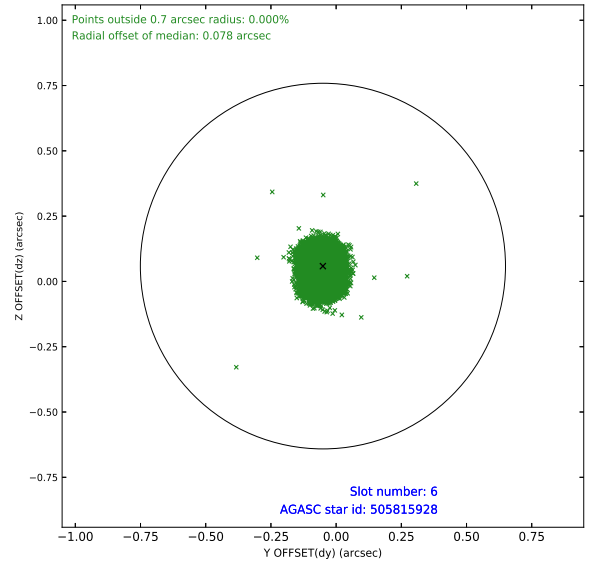
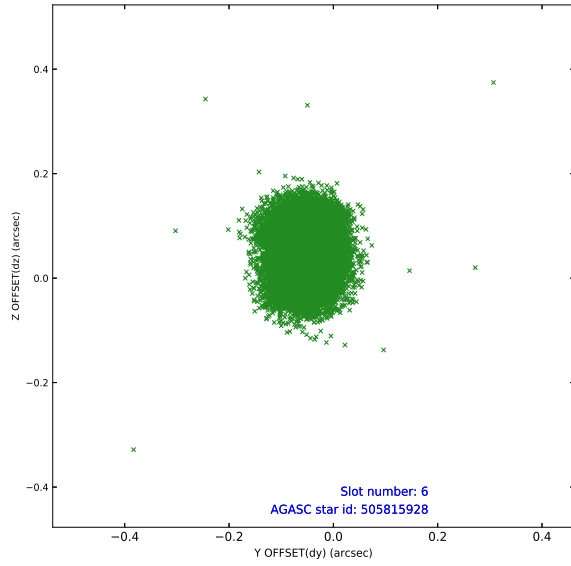
2.4.3 Slot 5



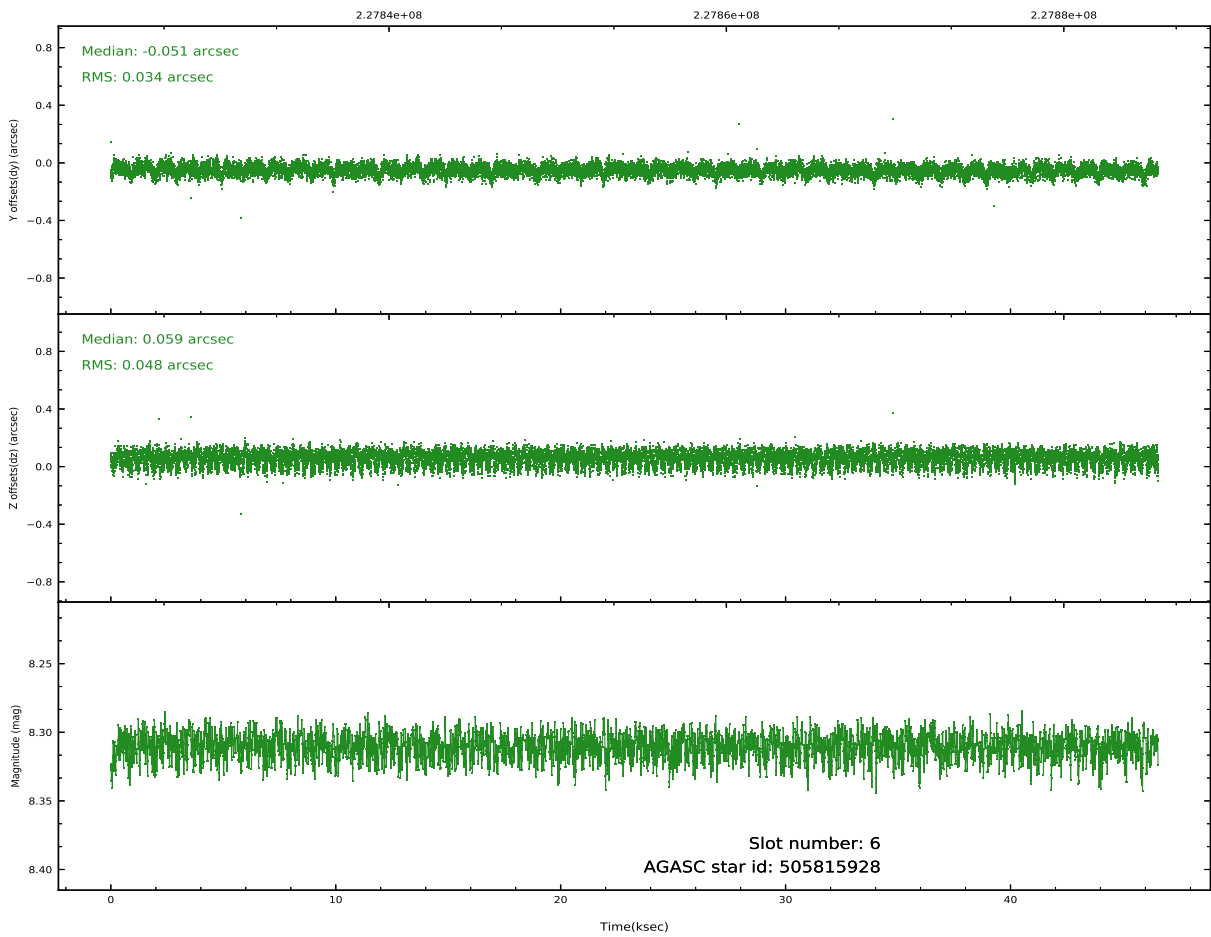
Time (s)



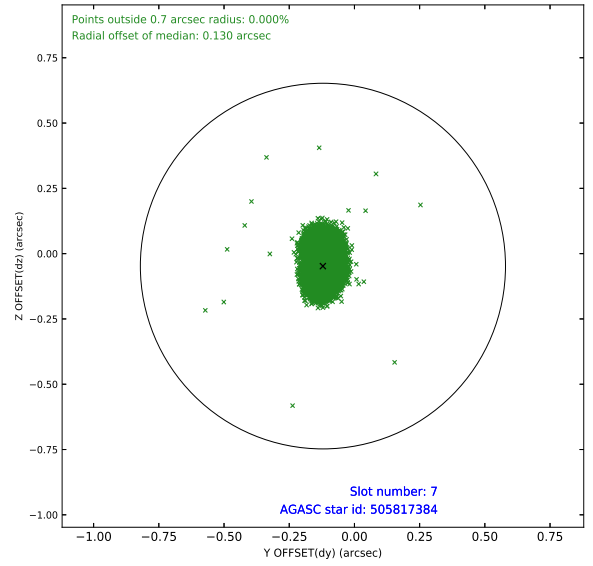
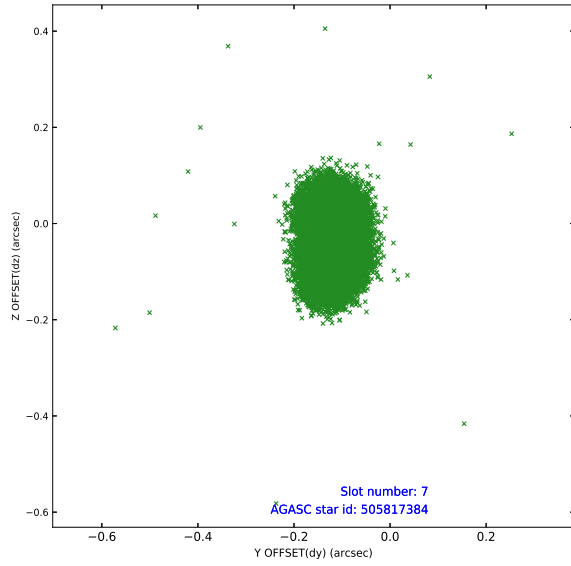
2.4.4 Slot 6



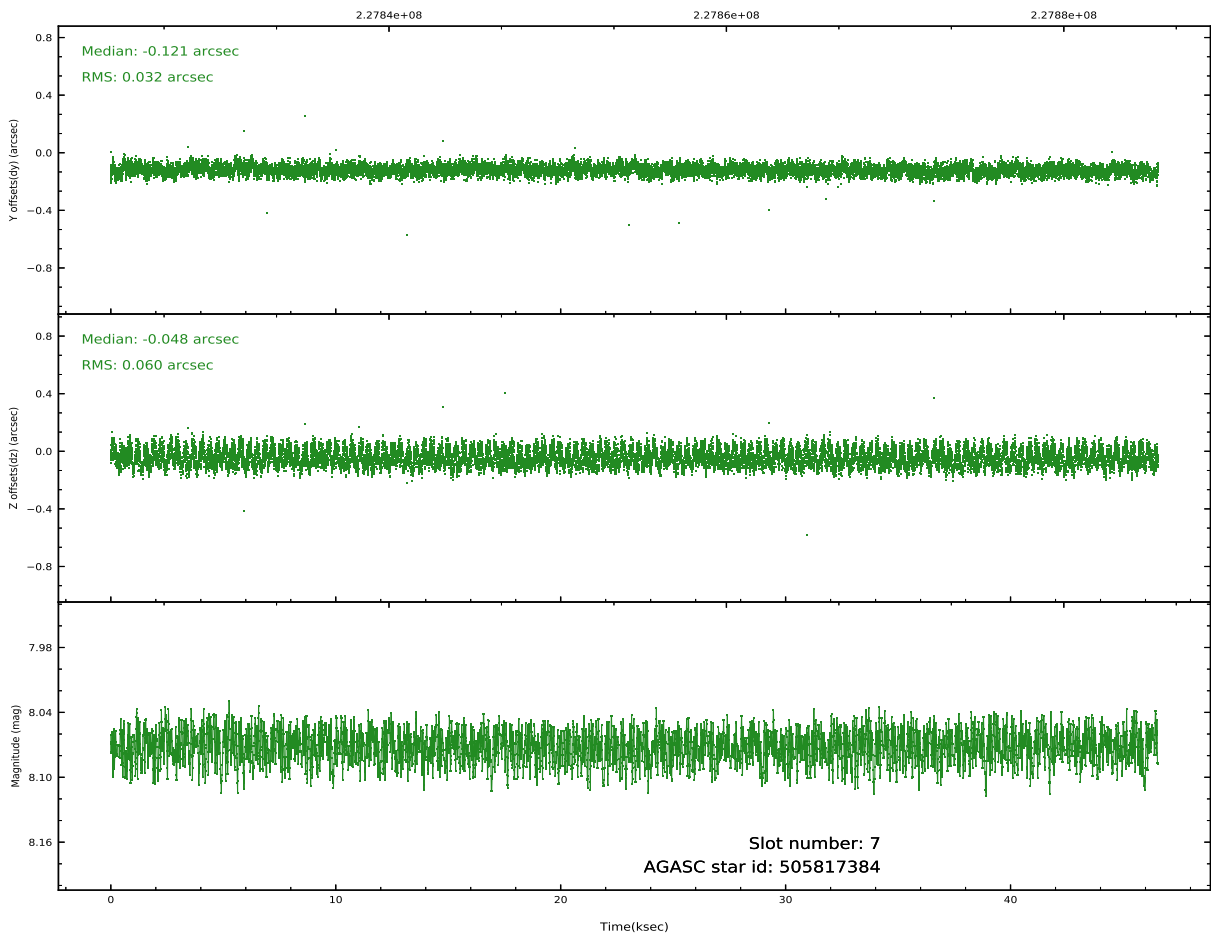
Time (s)



2.4.5 Slot 7

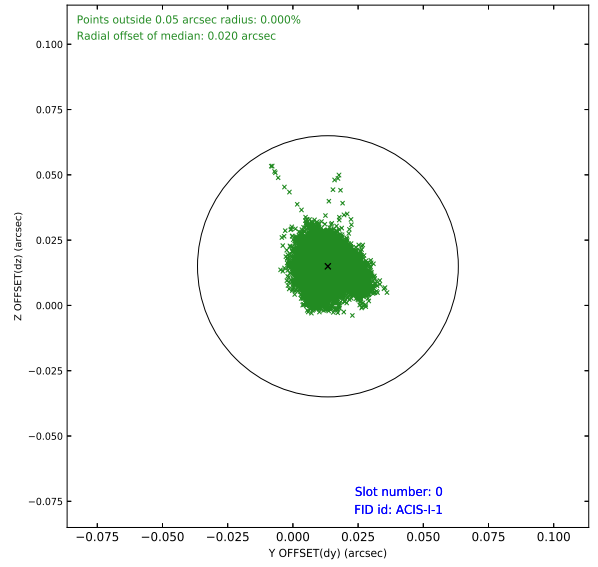
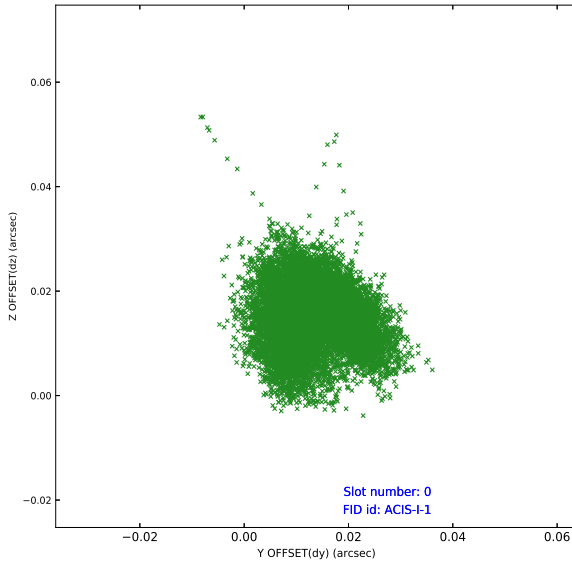


Time (s)

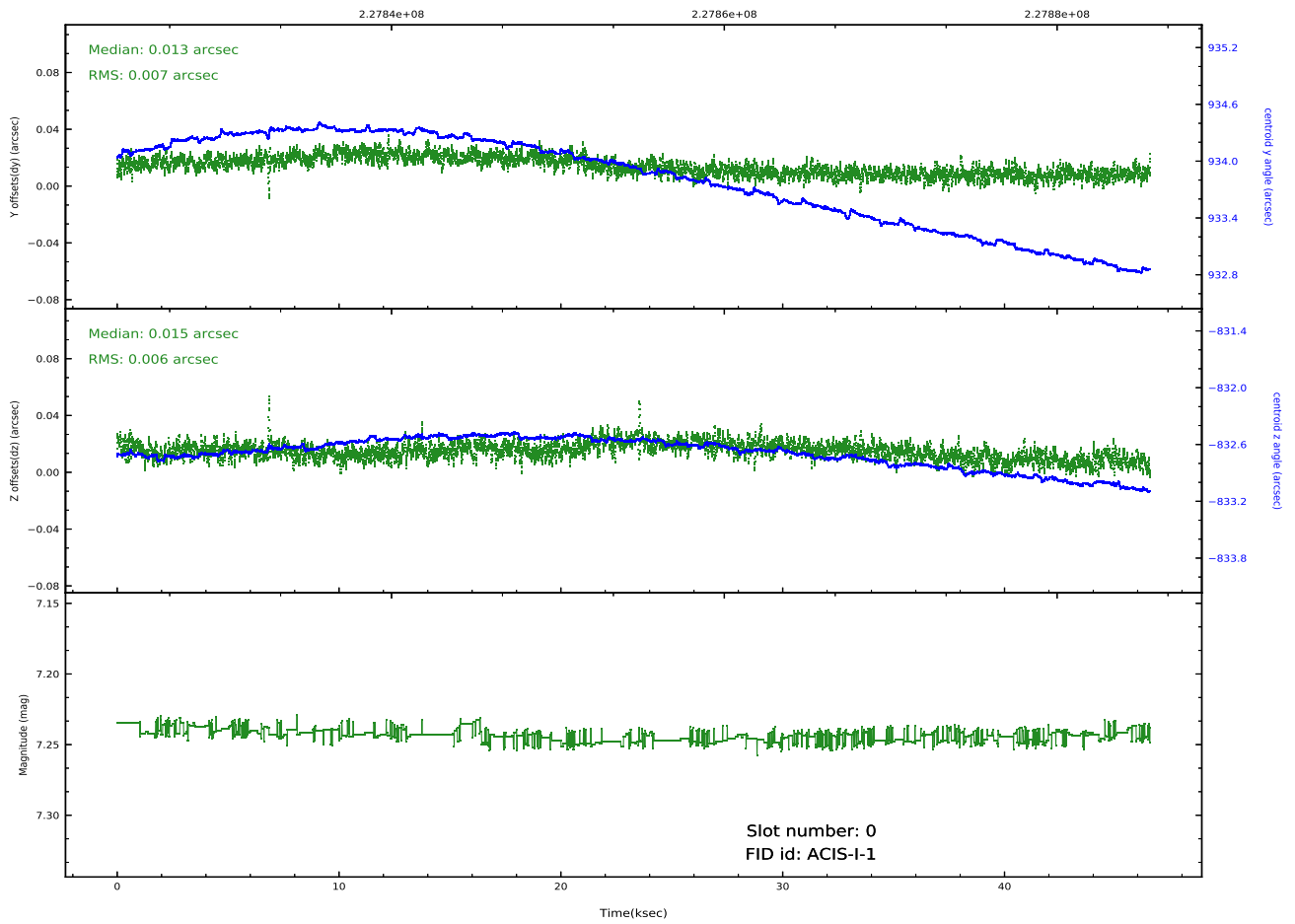


2.5 FID Slots

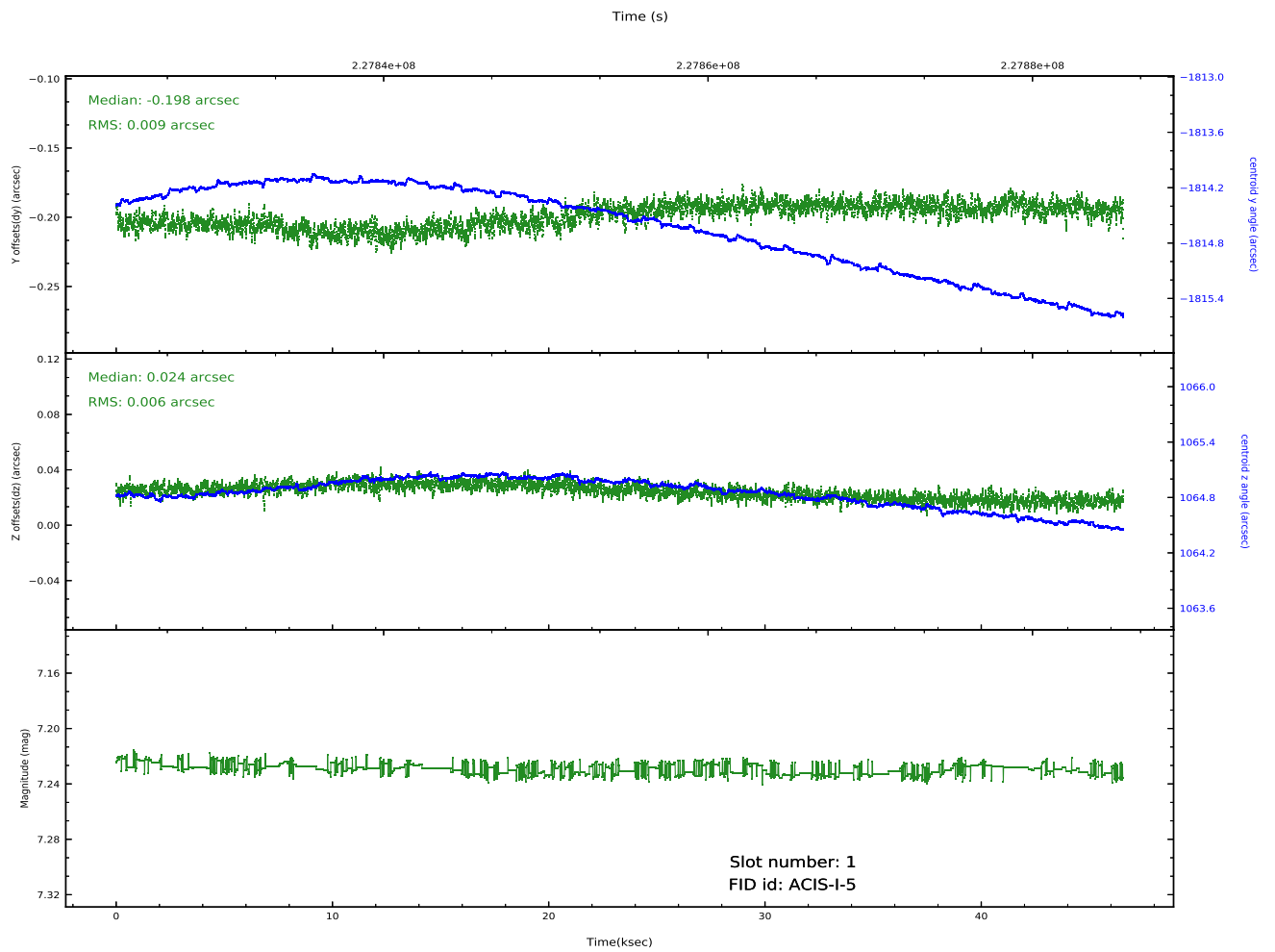
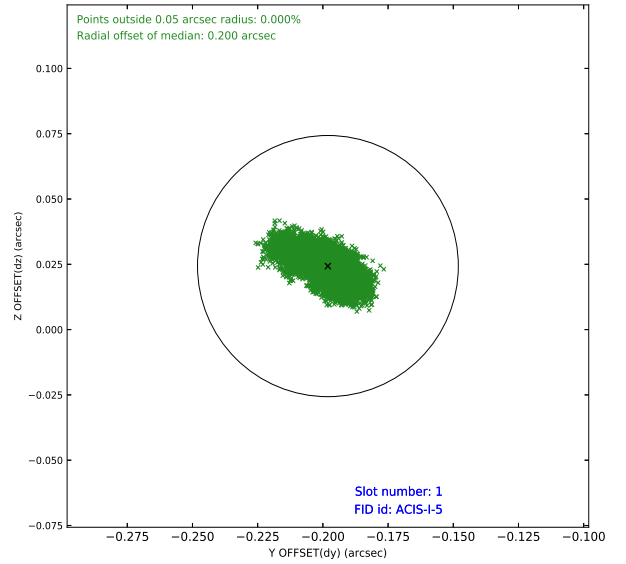
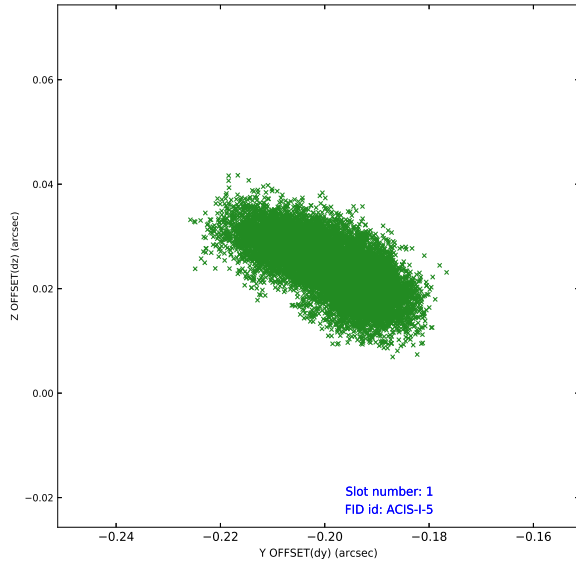
2.5.1 Slot 0



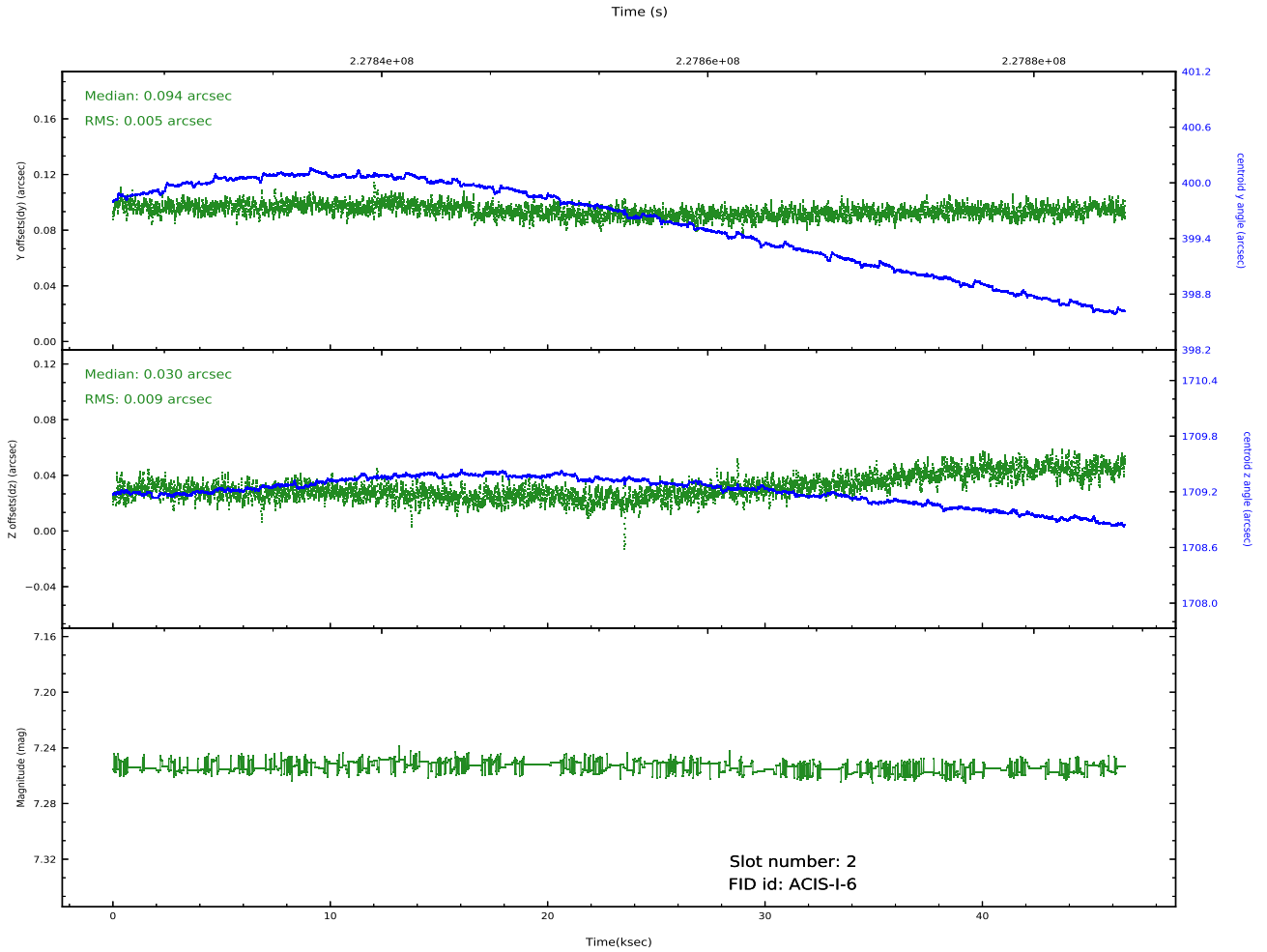
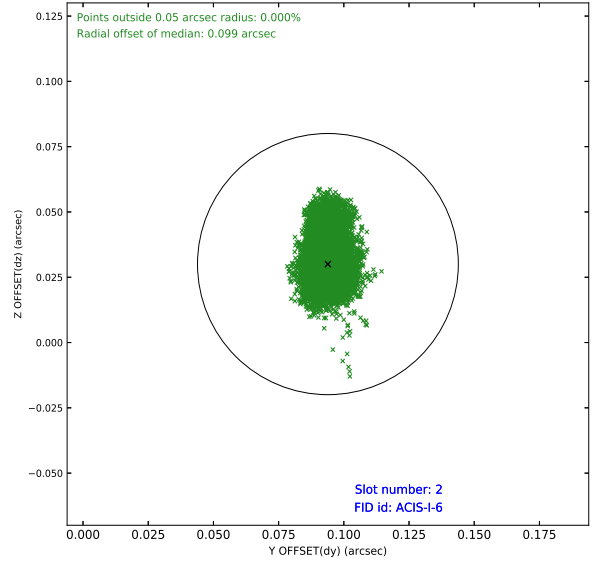
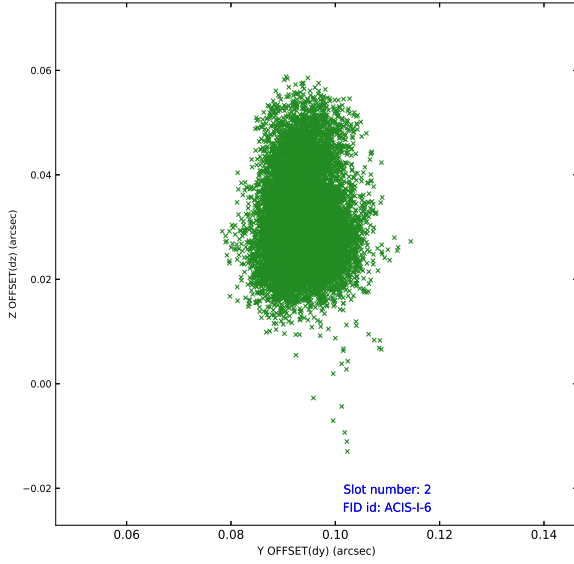
Time (s)



2.5.2 Slot 1



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	46.45337

A.2 Comments

Roll constraint was met.