

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5852 - L2 Version 3
Chandra X-Ray Center

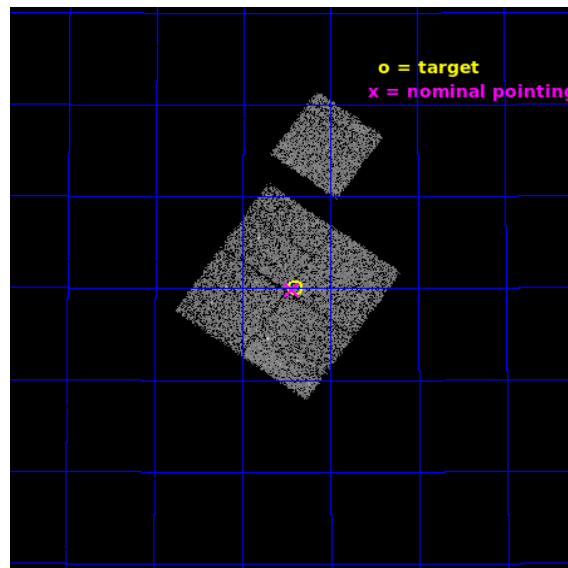
L2 Processing Date : Oct 11 2020

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1 Front

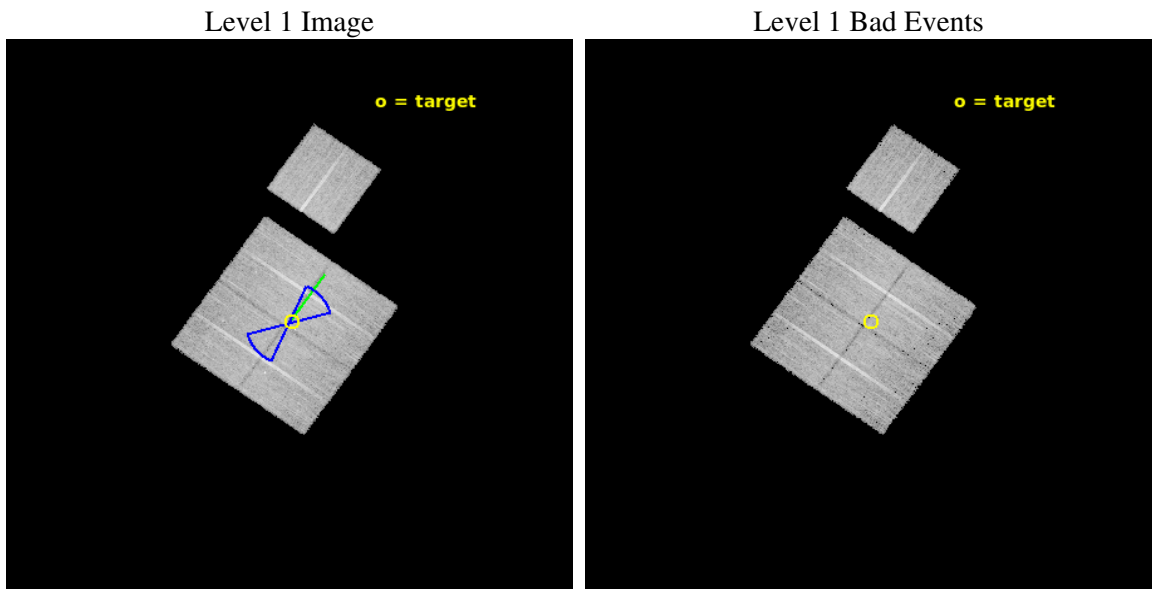
seq_num	900353	Sequence number
obs_id	5852	Observation id
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	Extended Groth Strip (EGS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.102081	Observer's specified target RA [deg]
dec_targ	52.334053	Observer's specified target Dec [deg]
ra_nom	214.10978840314	Nominal RA [deg]
dec_nom	52.331155022801	Nominal Dec [deg]
roll_nom	35.192239530719	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10758.60480395	Sum of GTIs [s]
livetime	10618.035711816	Livetime [s]
ontime0	10764.763644367	Sum of GTIs [s]
ontime1	10761.663694203	Sum of GTIs [s]
ontime2	10764.845604867	Sum of GTIs [s]
ontime3	10758.60480395	Sum of GTIs [s]
ontime6	10761.581594259	Sum of GTIs [s]
l2events	30524	Number of level 2 events



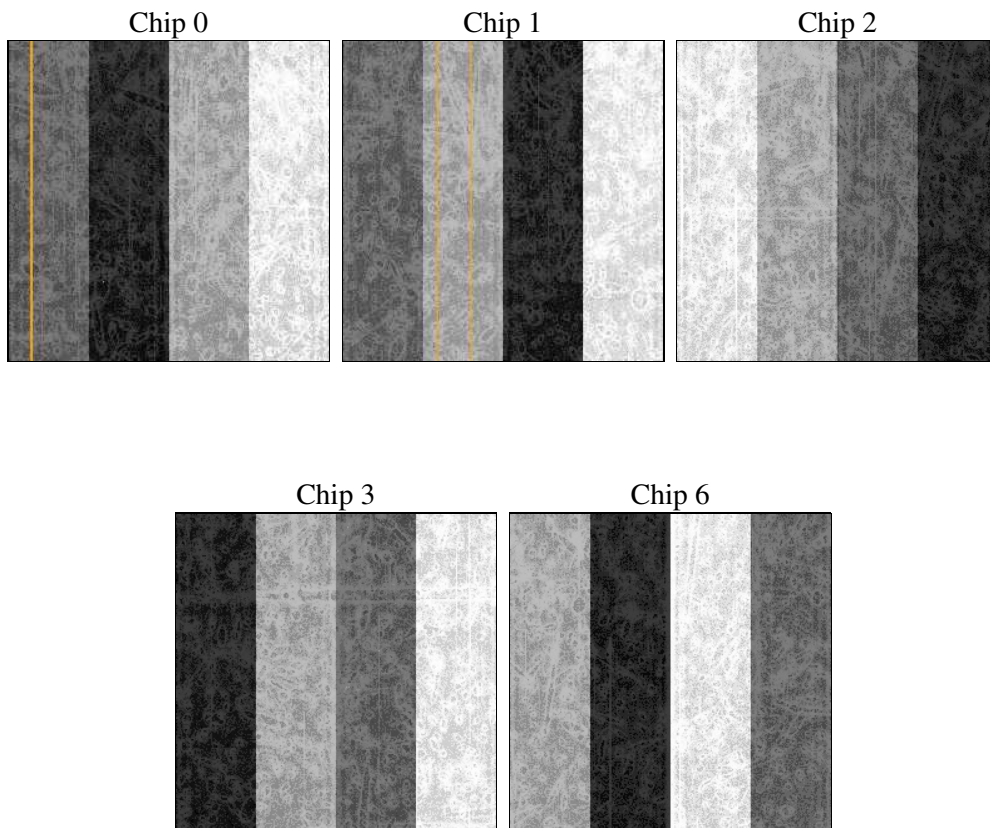
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10758.60480395	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	10764.763644367	Sum of GTIs [s]
date	2020-10-12T02:45:05	Date and time of file creation	ontime1	10761.663694203	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	10764.845604867	Sum of GTIs [s]
			ontime3	10758.60480395	Sum of GTIs [s]
			ontime6	10761.581594259	Sum of GTIs [s]
			l1events	352661	Number of level 1 events

2.1.4 Events

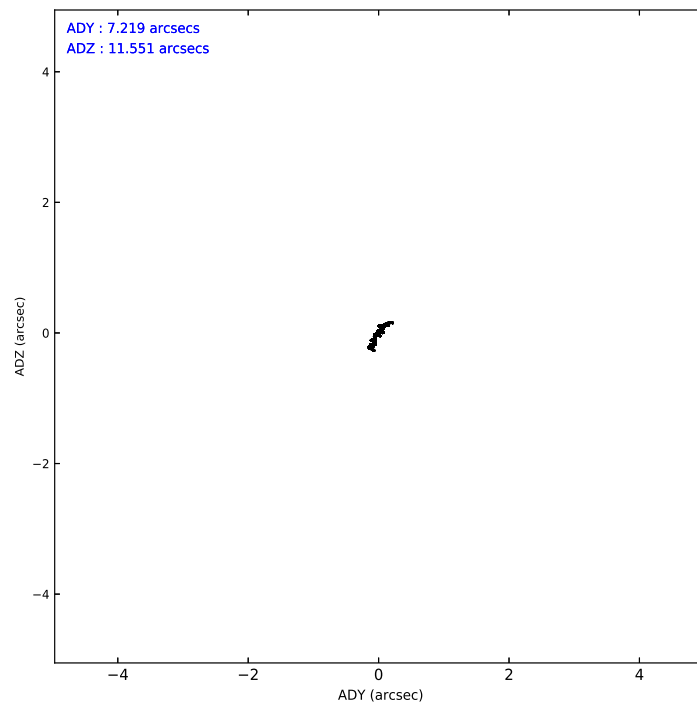
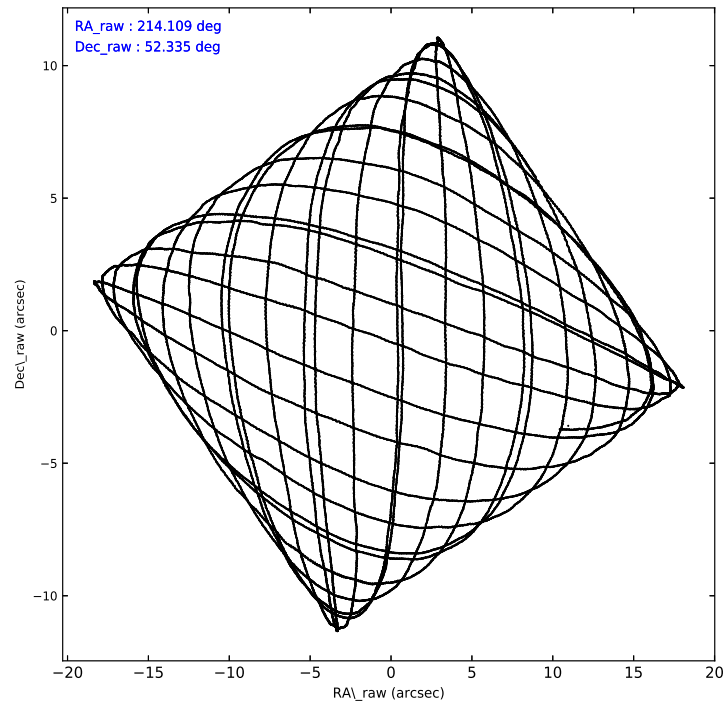
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	66405	68074	74808	72106	71268
rejected events	59246	59698	67781	65089	63981
rejected %	89%	87%	90%	90%	89%

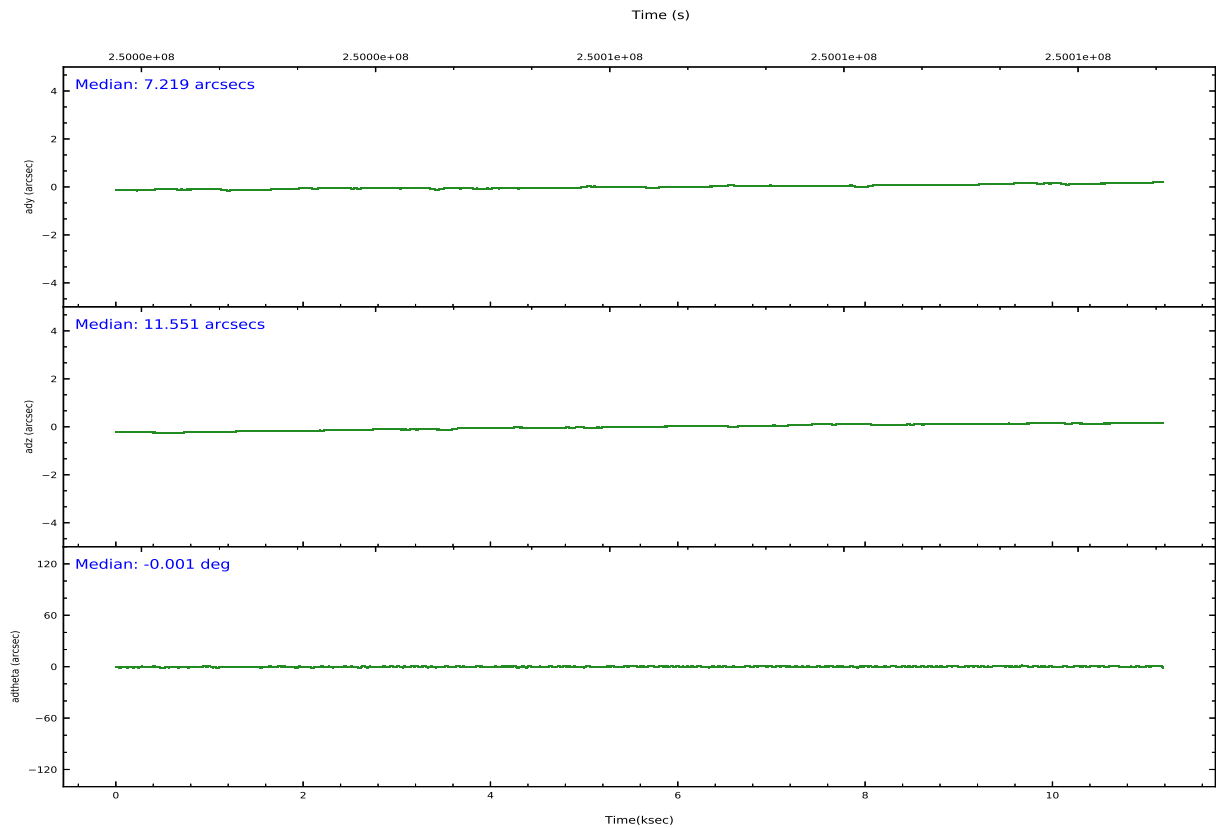
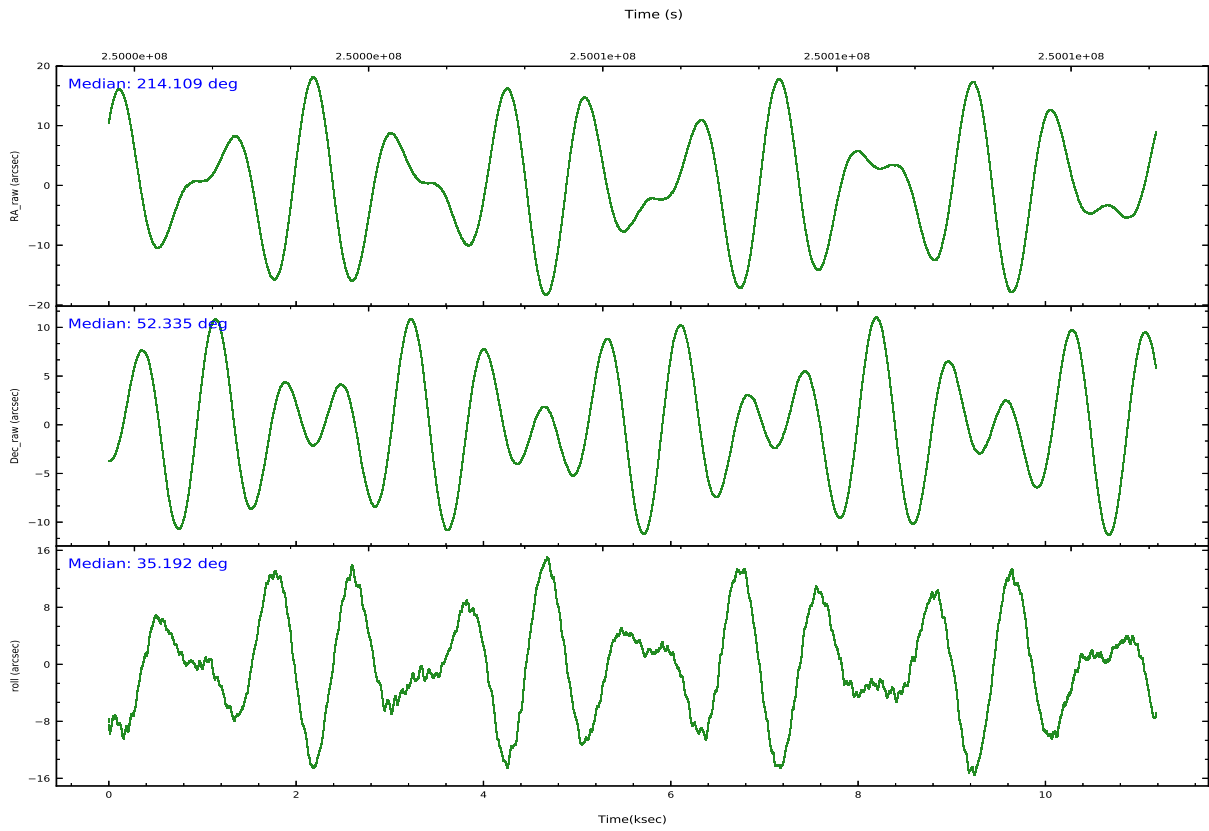
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2634	3143	2581	2544	2529
	3%	4%	3%	3%	3%
grade 1 events	44	32	43	43	20
	0%	0%	0%	0%	0%
grade 2 events	1689	1810	1692	1537	1579
	2%	2%	2%	2%	2%
grade 3 events	852	972	741	760	802
	1%	1%	0%	1%	1%
grade 4 events	705	885	782	800	823
	1%	1%	1%	1%	1%
grade 5 events	2455	2764	2281	2882	2910
	3%	4%	3%	3%	4%
grade 6 events	1281	1567	1233	1379	1557
	1%	2%	1%	1%	2%
grade 7 events	56745	56901	65455	62161	61048
	85%	83%	87%	86%	85%

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	214.090878	214.10978840314	Subarray requested	NONE	NONE
[deg] Pointing Dec	52.310136	52.331155022801	Alternating exposures requested	N	N
[deg] Pointing Roll	35.008870	35.192239530719	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	50.756000	50.756000			
[deg] Roll tolerance	25.000000	25.000000			
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)	250002409.184000	250002033.20218			
Observation start date	2005-12-03T13:05:45	2005-12-03T13:00:33			
[s] Observation end time (MET)	250013409.184000	250014286.56524			
Observation end date	2005-12-03T16:09:05	2005-12-03T16:24:46			
Read mode	TIMED	TIMED			

2.3 Aspect





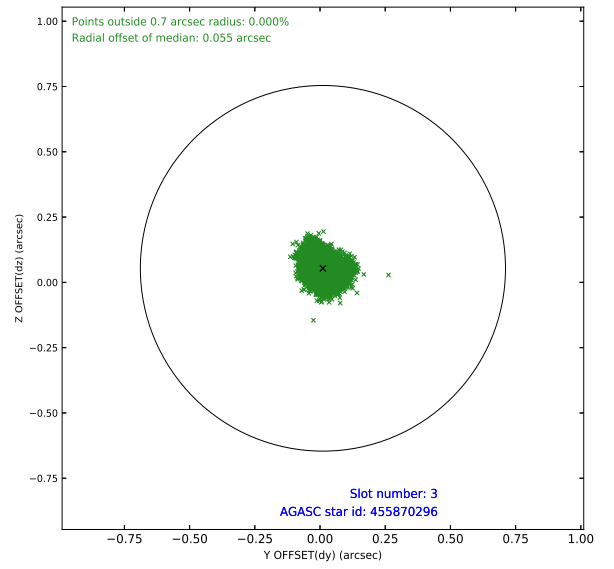
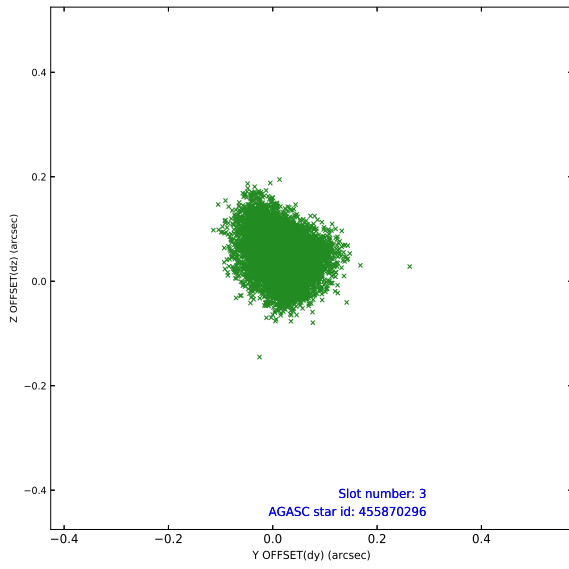
Slot Statistics

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	2725	1.000	0.058	-0.051	0.007	0.012	0.000000	0.000000	932.49	-835
1	FID		ACIS-I-5	7.23	2725	1.000	-0.209	0.057	0.007	0.012	0.000000	0.000000	-1815.59	1062
2	FID		ACIS-I-6	7.25	2725	1.000	0.059	0.065	0.007	0.013	0.000000	0.000000	397.58	1707
3	GUIDE	used	455870296	7.31	5451	1.000	0.011	0.054	0.068	0.102	214.629779	52.033323	408.85	-1497
4	GUIDE	used	455871352	8.12	5450	1.000	-0.102	0.185	0.066	0.105	215.099961	52.172669	1550.24	-1670
5	GUIDE	used	504894728	8.82	5450	1.000	0.143	-0.148	0.078	0.126	213.220892	52.722550	-695.17	2313
6	GUIDE	used	505806936	7.00	5449	1.000	0.061	0.006	0.067	0.112	213.820815	52.535927	-17.54	1006
7	GUIDE	used	505812376	7.57	5450	1.000	-0.126	-0.092	0.054	0.083	214.039537	52.937930	1204.93	1915

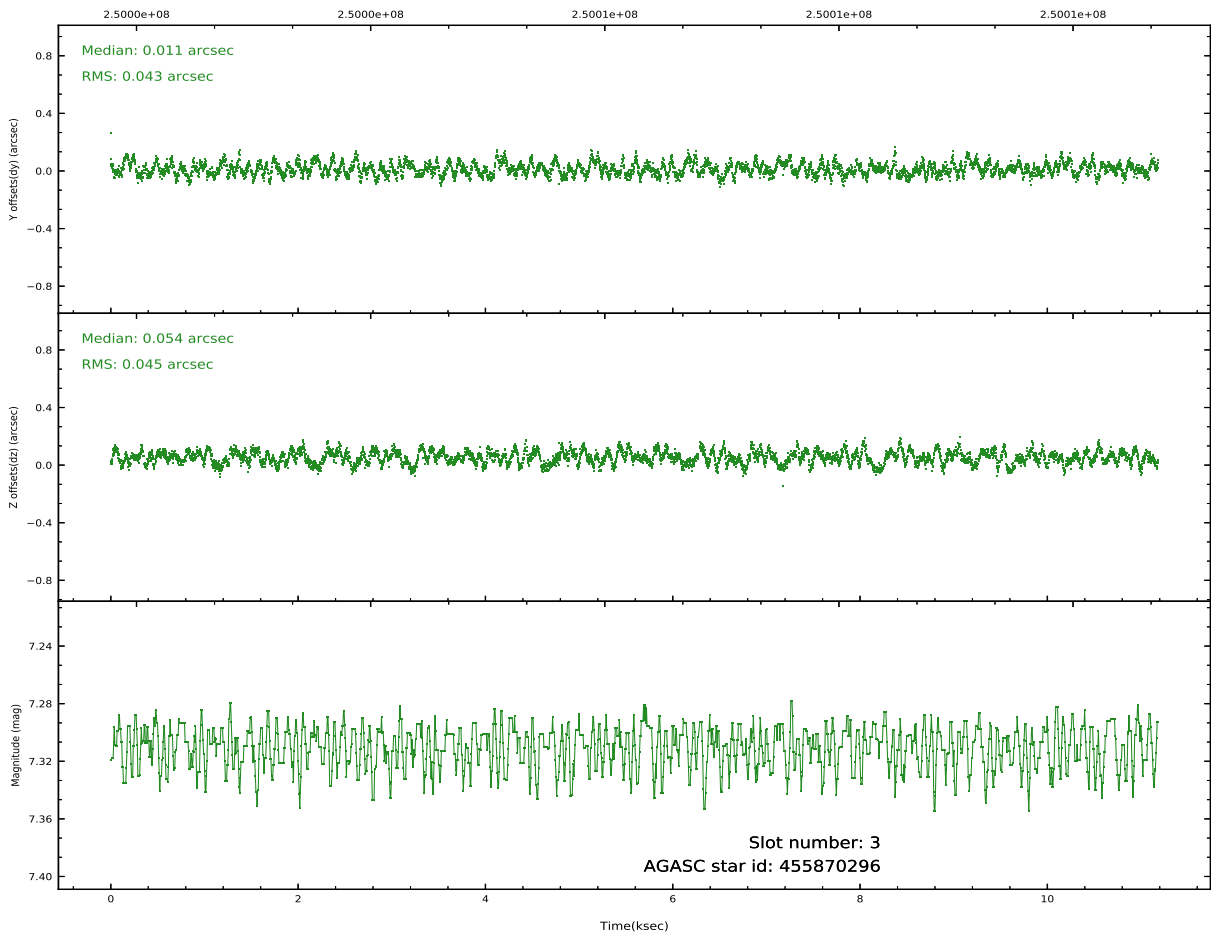
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2.4 Star Slots

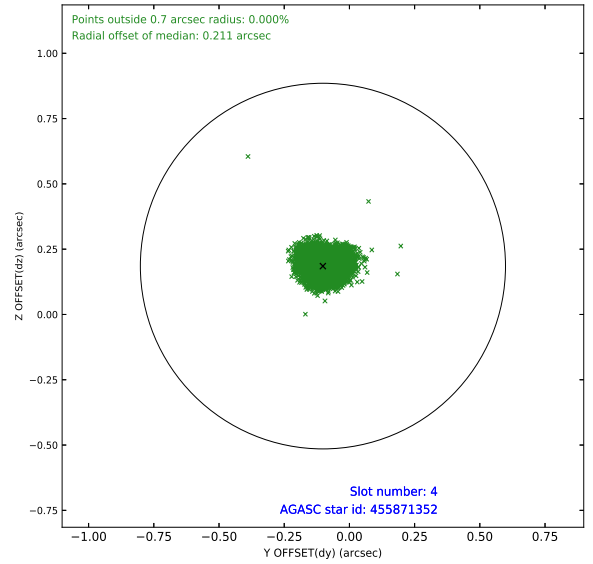
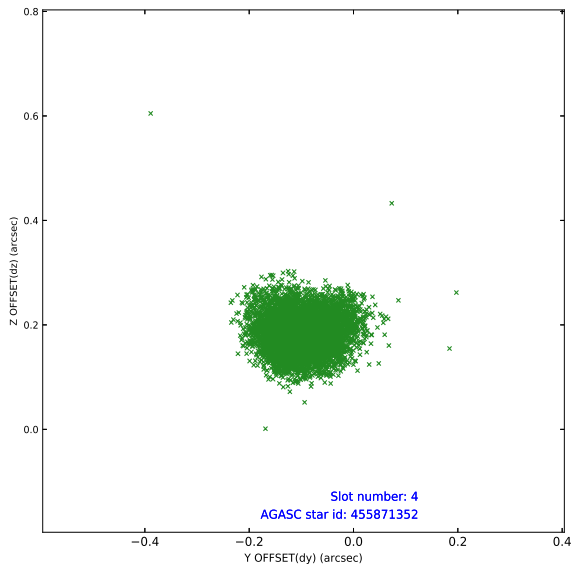
2.4.1 Slot 3



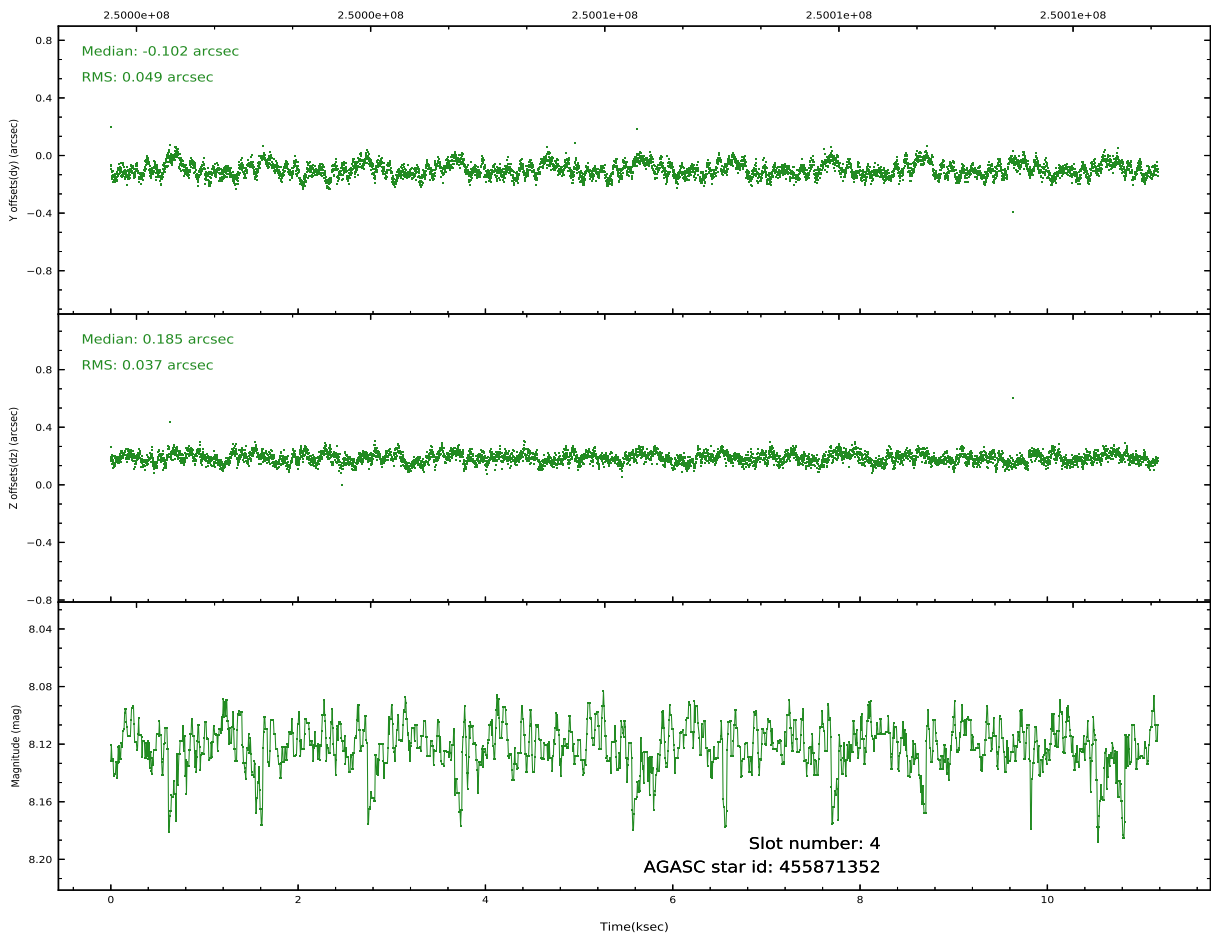
Time (s)



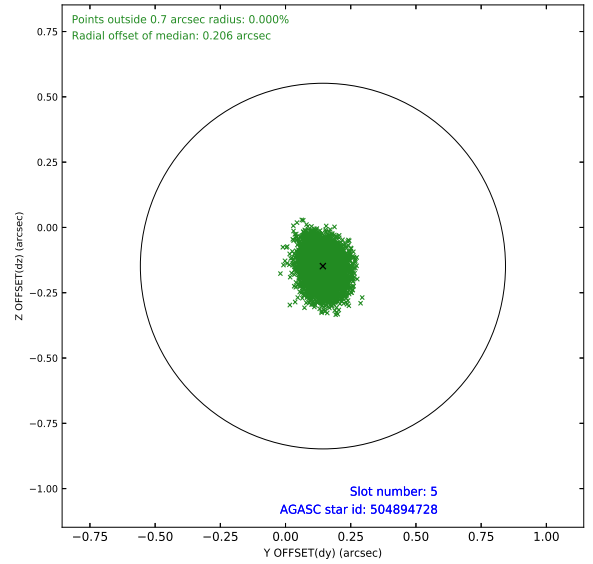
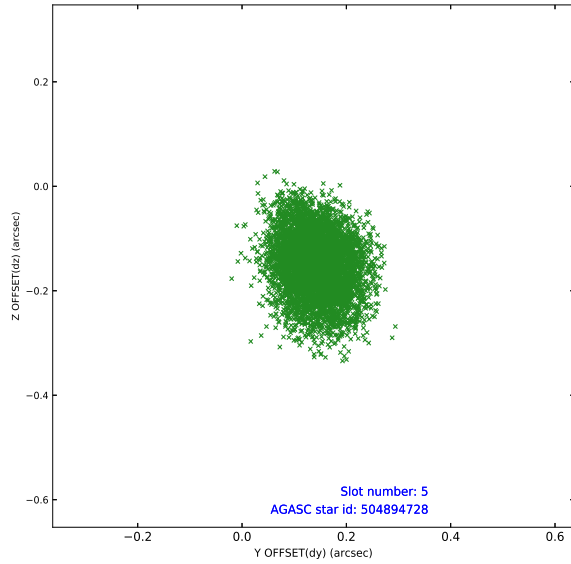
2.4.2 Slot 4



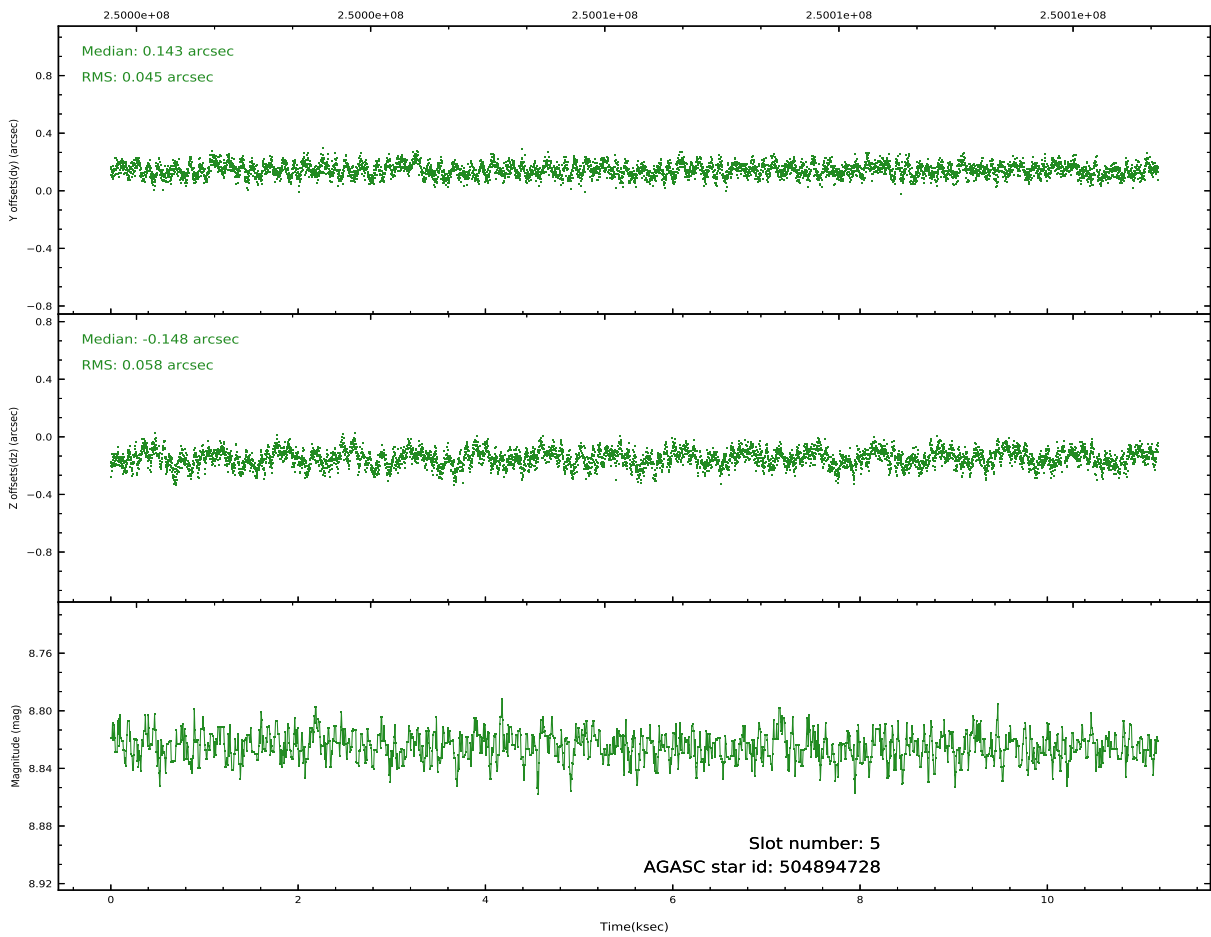
Time (s)



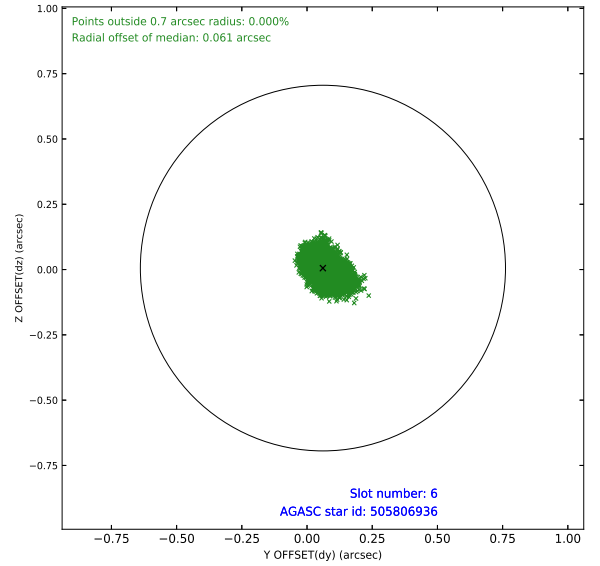
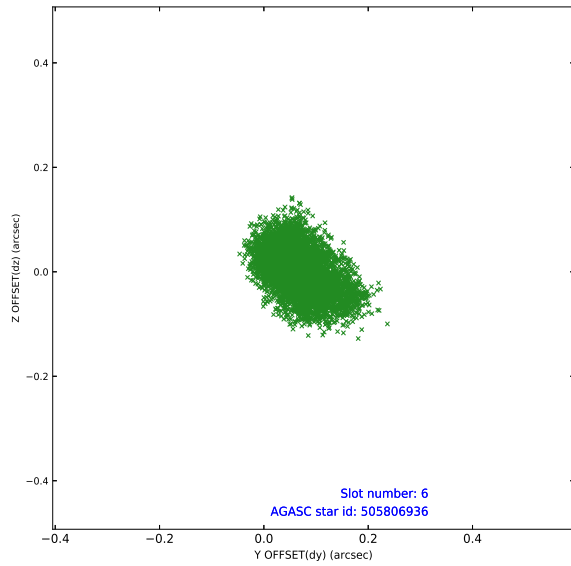
2.4.3 Slot 5



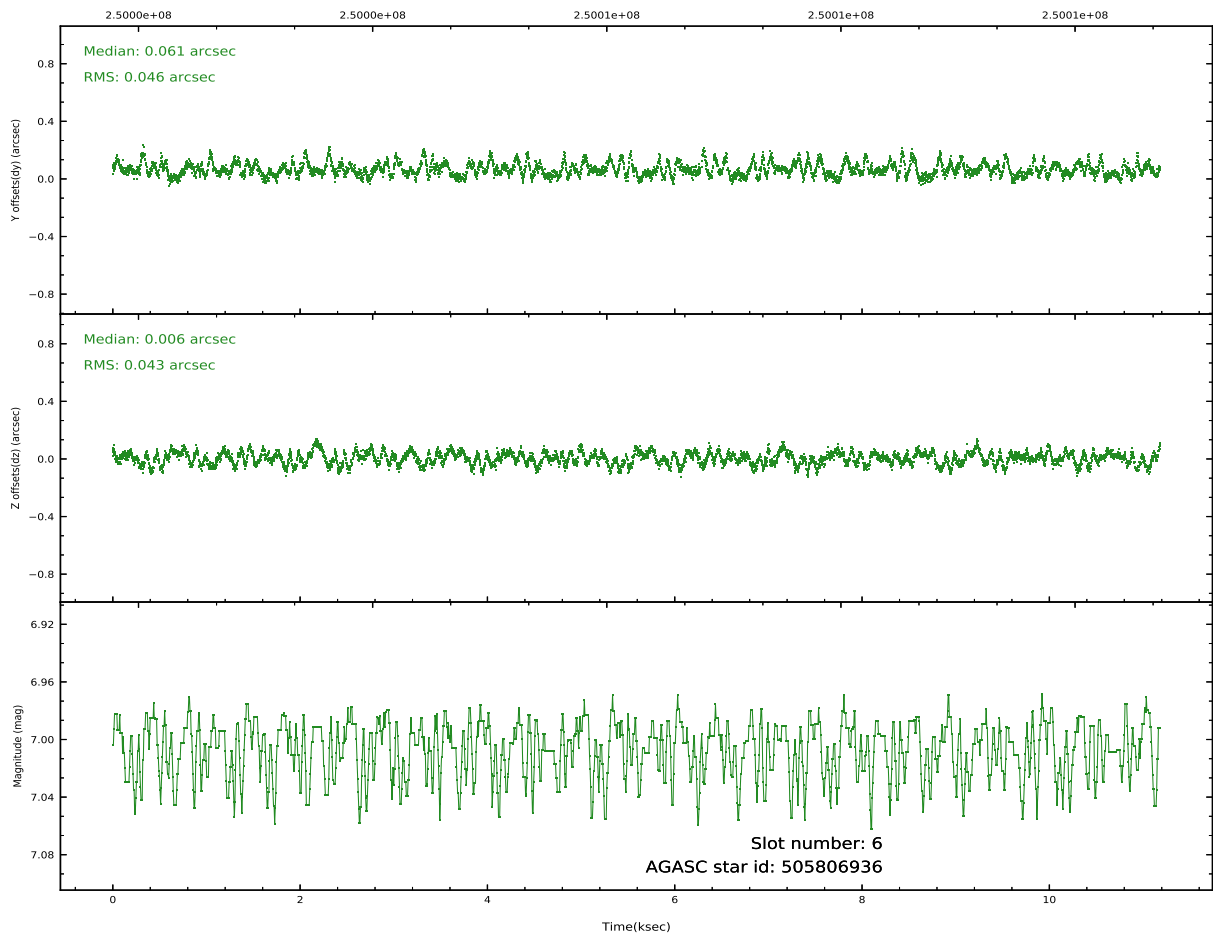
Time (s)



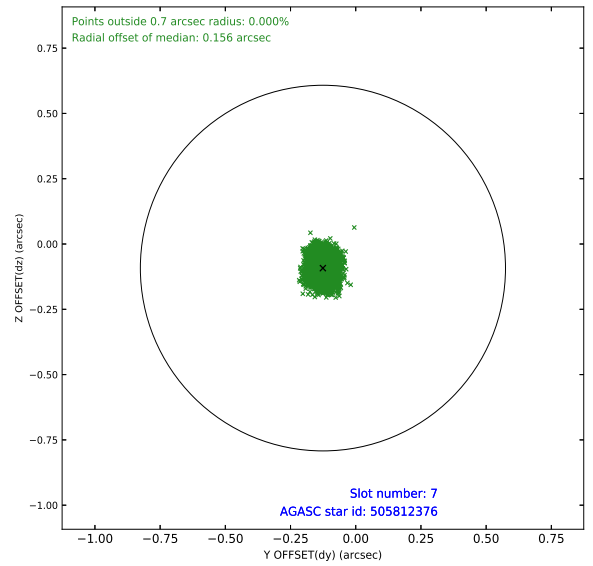
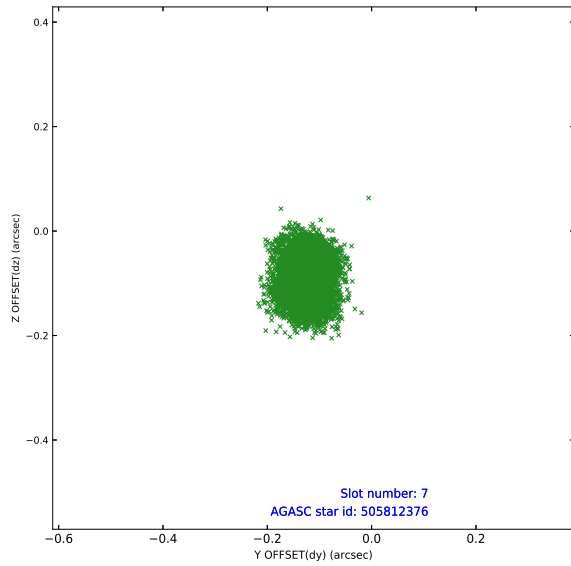
2.4.4 Slot 6



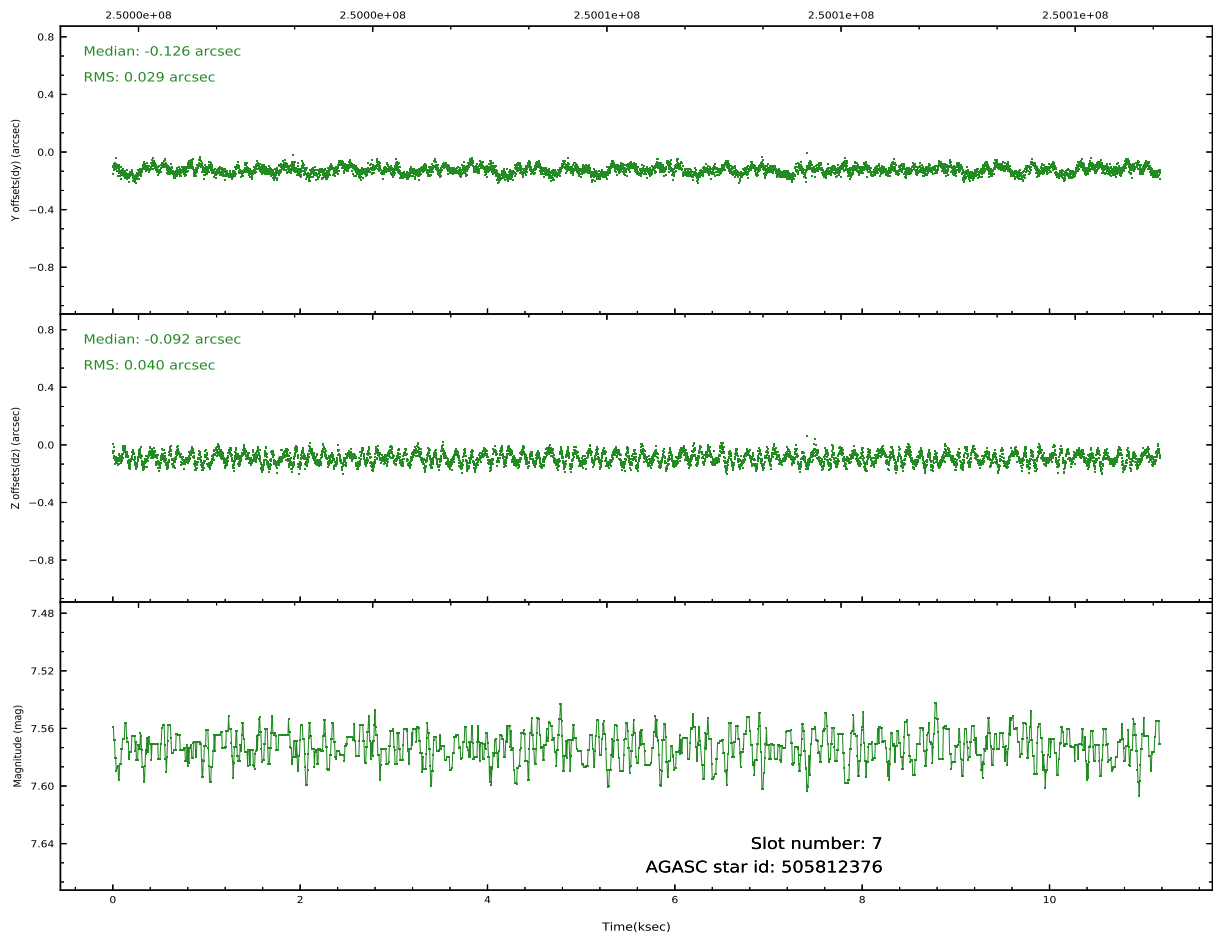
Time (s)



2.4.5 Slot 7

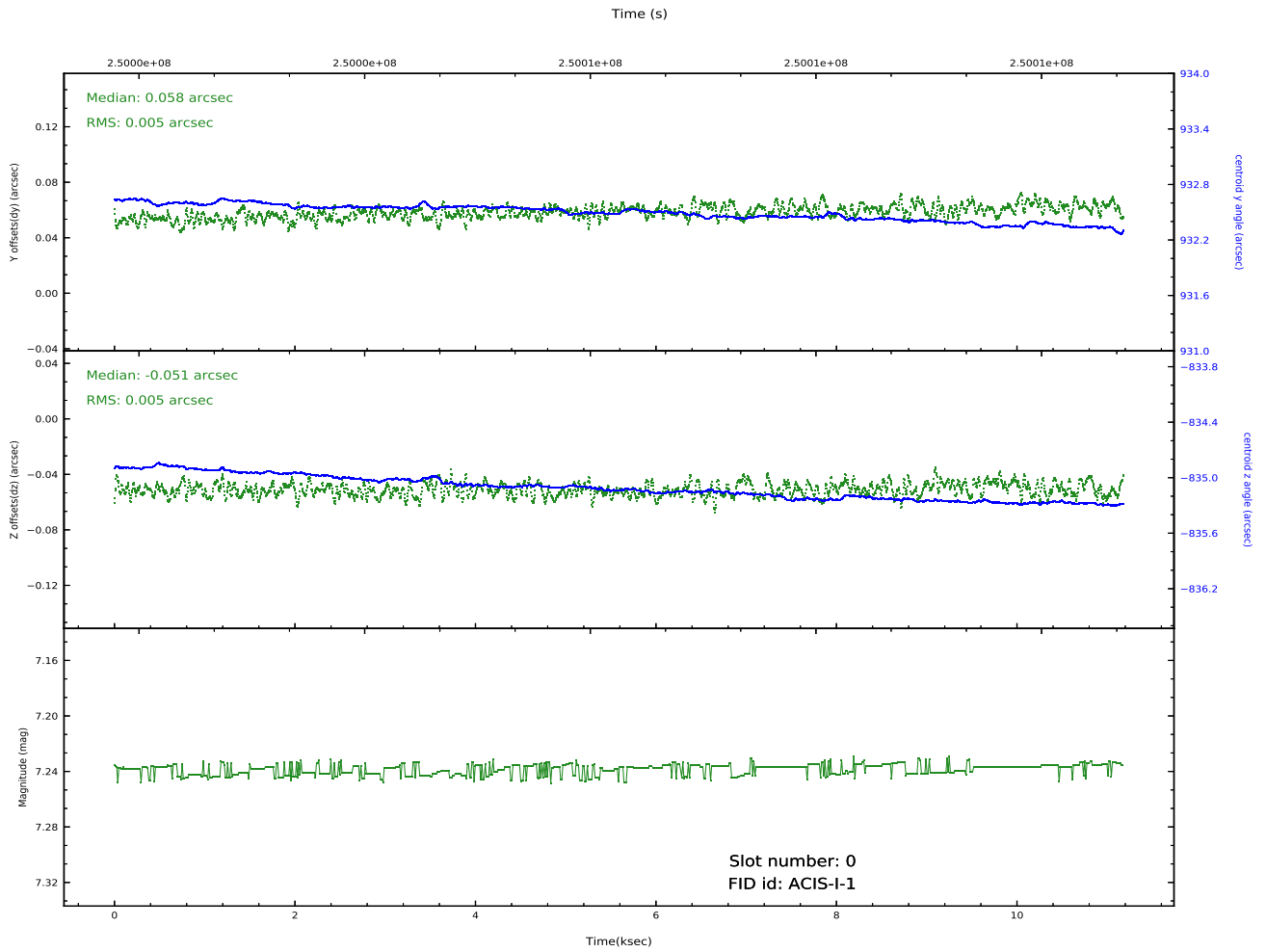
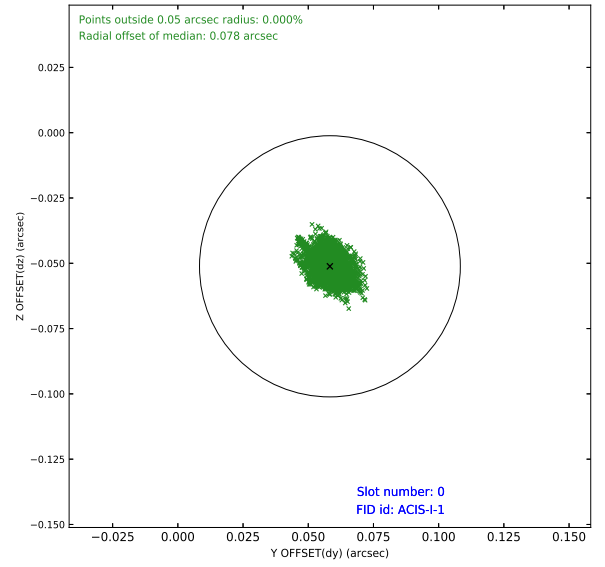
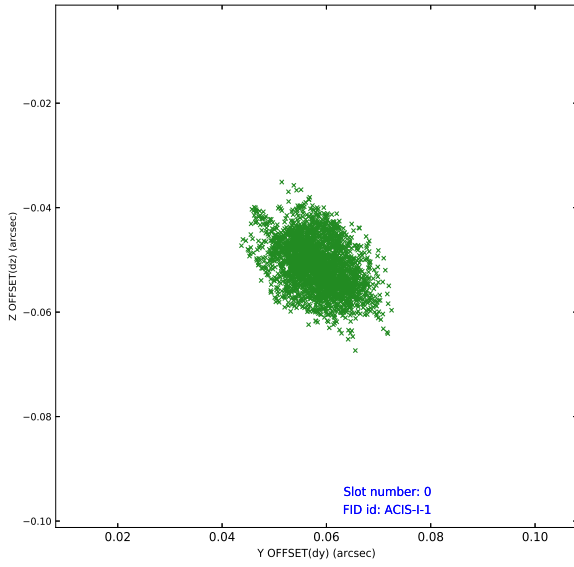


Time (s)

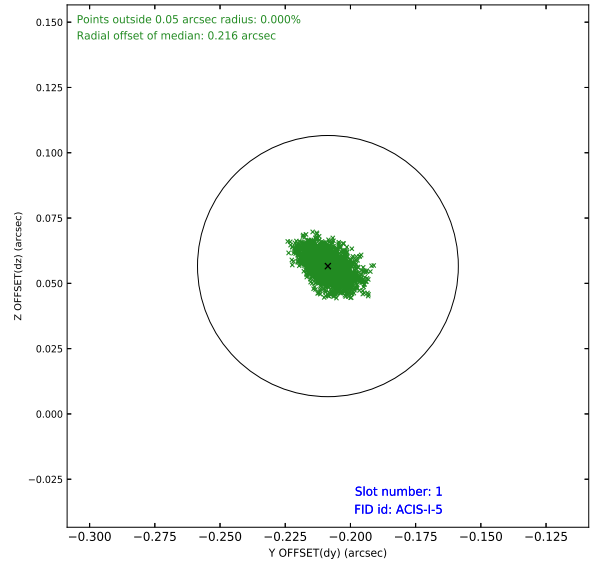
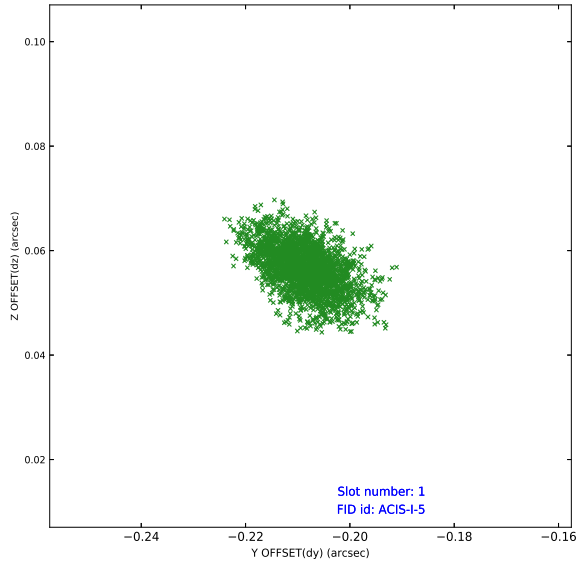


2.5 FID Slots

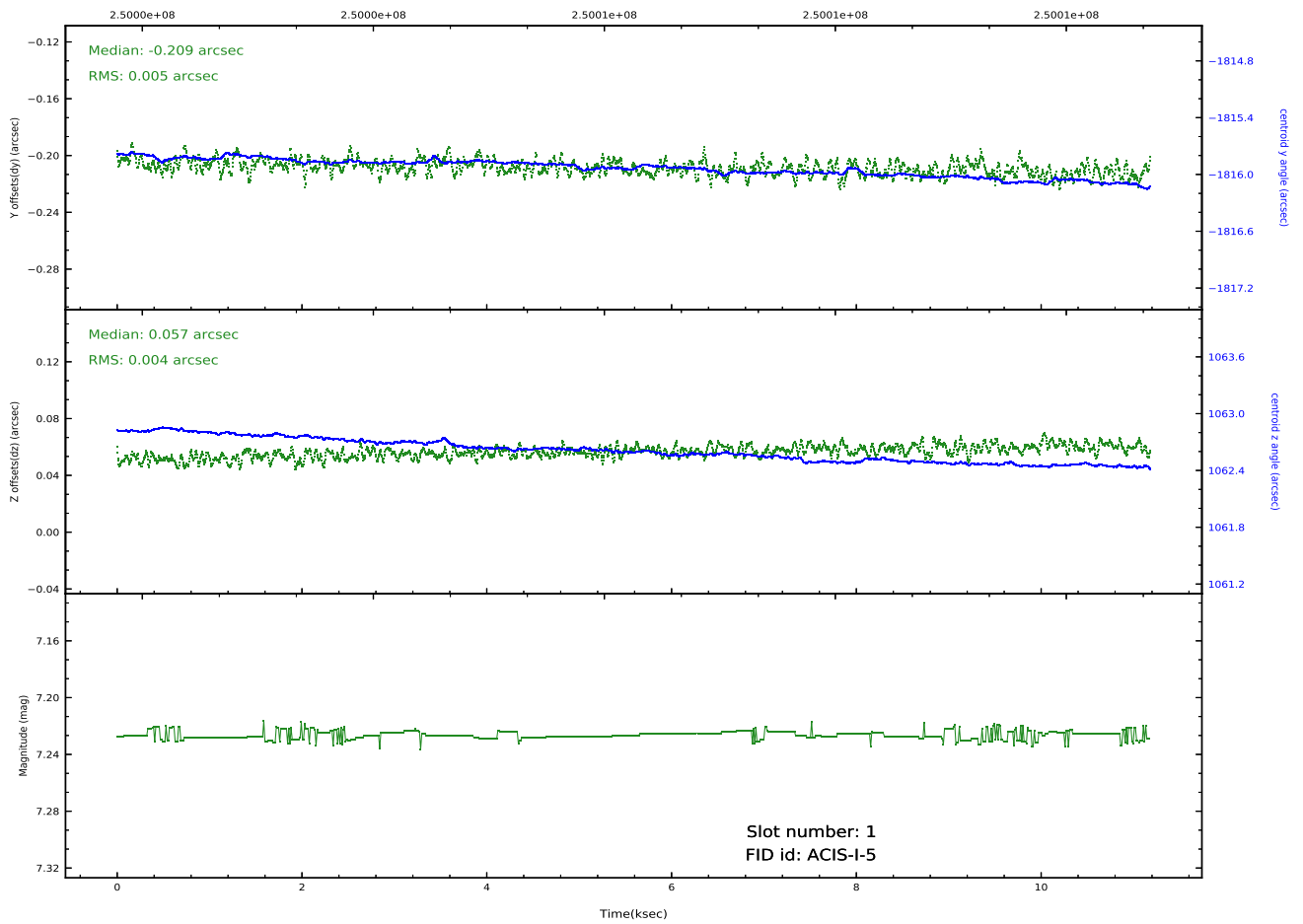
2.5.1 Slot 0



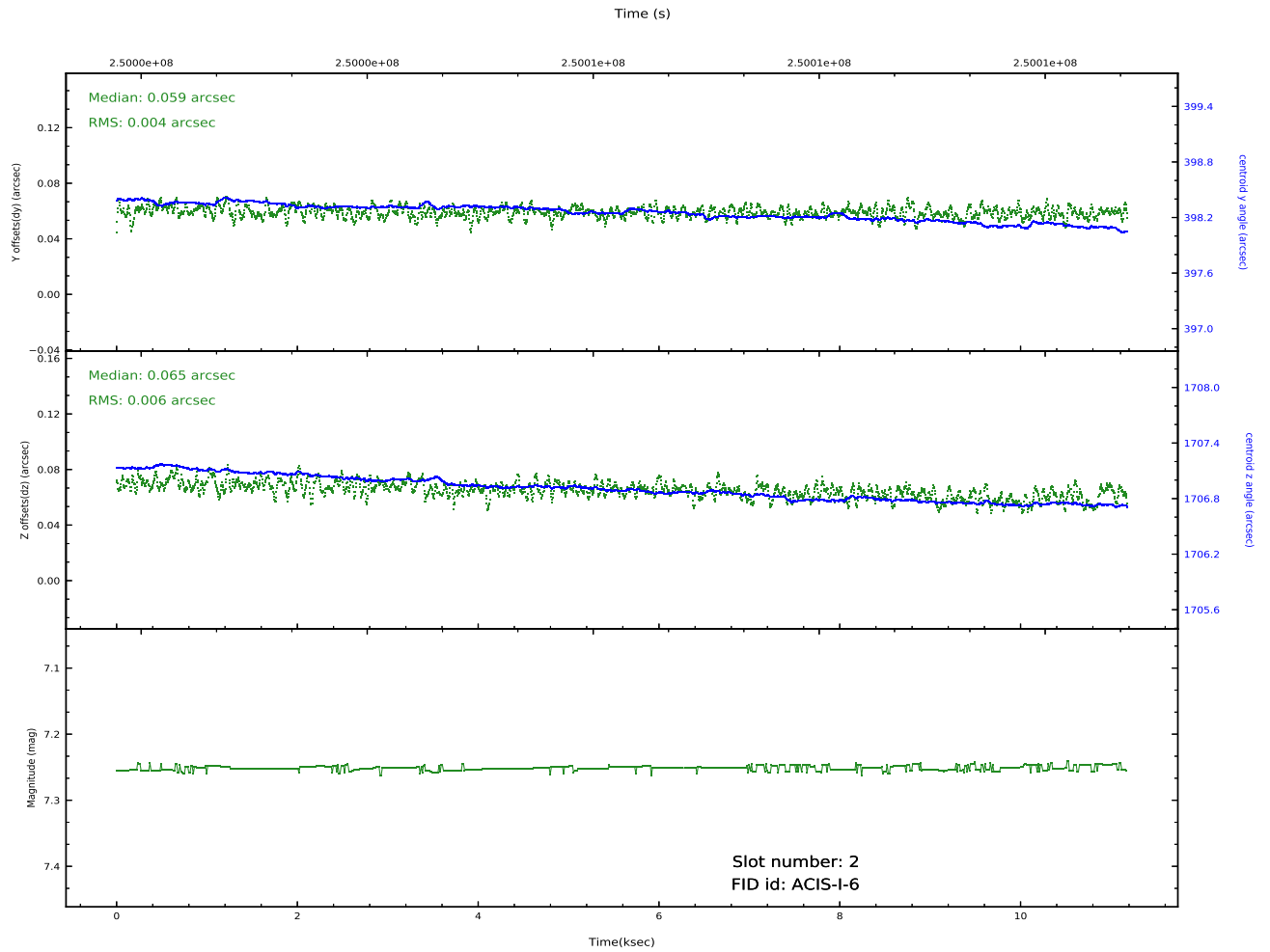
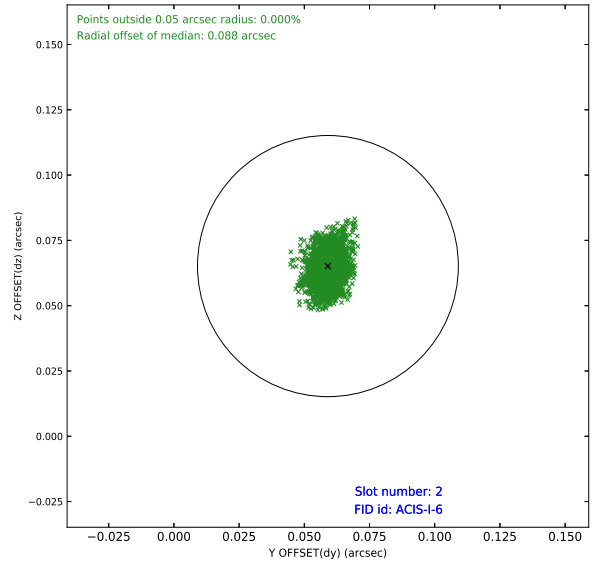
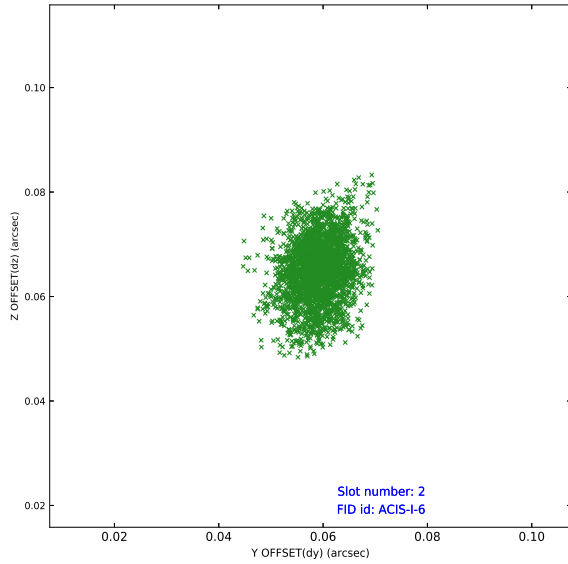
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.75993

A.2 Comments

Roll constraint was met.