

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4931 - L2 Version 4
Chandra X-Ray Center

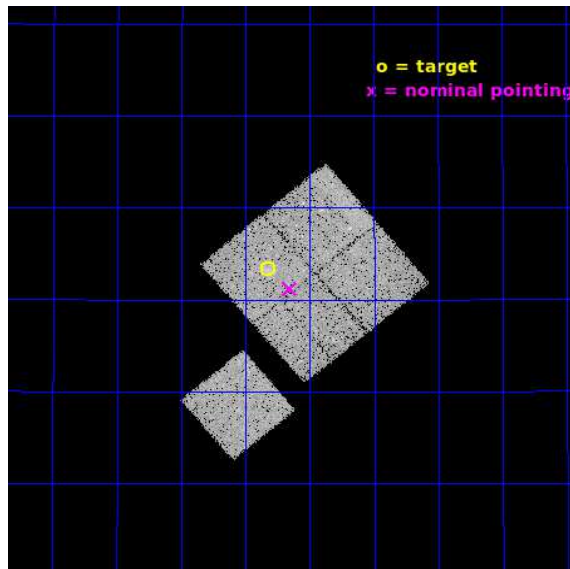
L2 Processing Date : Sep 25 2020

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1 Front

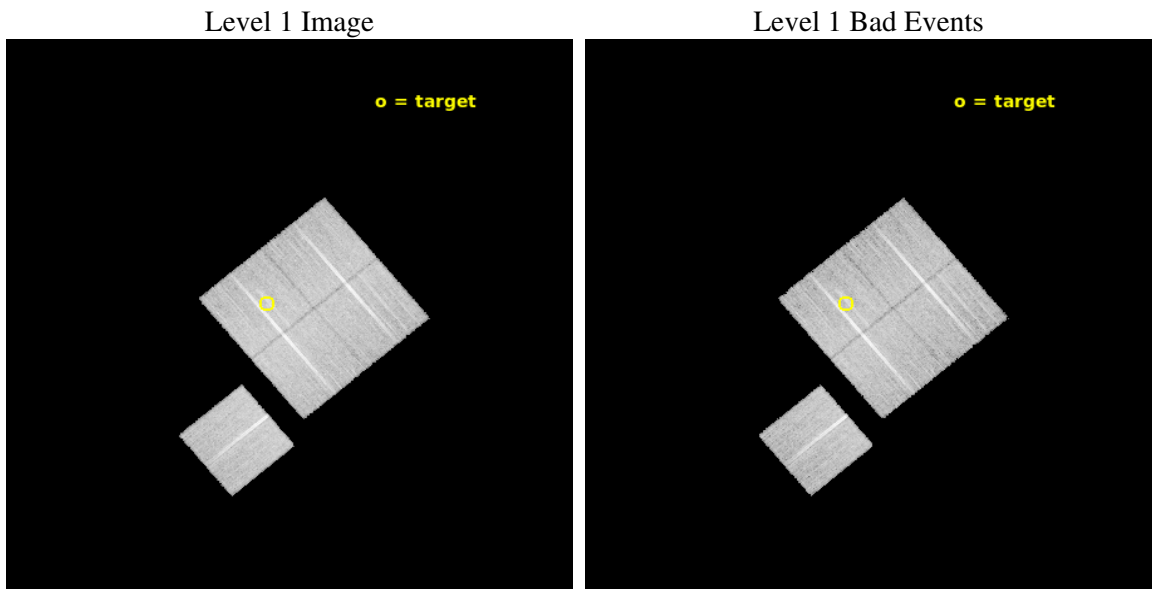
seq_num	800382	Sequence number
obs_id	4931	Observation id
title	Chandra snapshot survey of 10 distant clusters of galaxies	Proposa
observer	Dr. Stephen Murray	Principal investigator
object	CIG J1216+2633	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.080833	Observer's specified target RA [deg]
dec_targ	26.557222	Observer's specified target Dec [deg]
ra_nom	184.03884425387	Nominal RA [deg]
dec_nom	26.520076450388	Nominal Dec [deg]
roll_nom	230.04504036181	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18739.385995805	Sum of GTIs [s]
livetime	18494.542122035	Livetime [s]
ontime0	18732.98089546	Sum of GTIs [s]
ontime1	18739.303915799	Sum of GTIs [s]
ontime2	18739.344955802	Sum of GTIs [s]
ontime3	18739.385995805	Sum of GTIs [s]
ontime6	18739.221835792	Sum of GTIs [s]
l2events	63072	Number of level 2 events



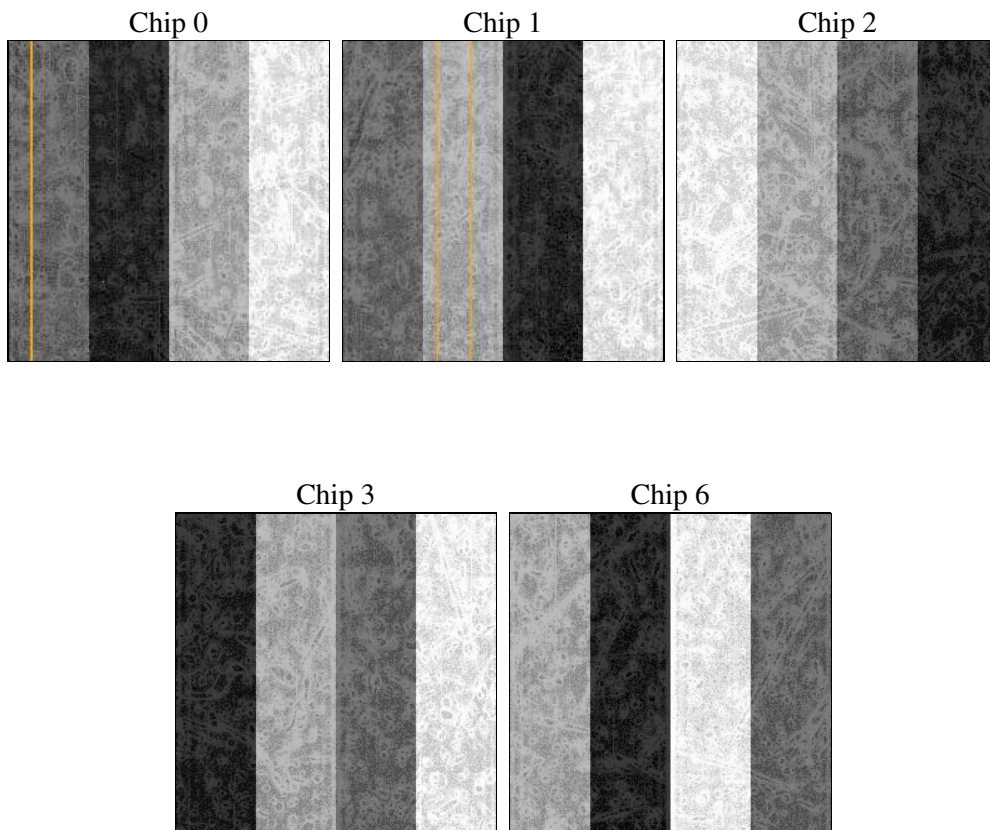
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18600.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18739.385995805	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	18732.98089546	Sum of GTIs [s]
date	2020-09-25T20:01:53	Date and time of file creation	ontime1	18739.303915799	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	18739.344955802	Sum of GTIs [s]
			ontime3	18739.385995805	Sum of GTIs [s]
			ontime6	18739.221835792	Sum of GTIs [s]
			l1events	570302	Number of level 1 events

2.1.4 Events

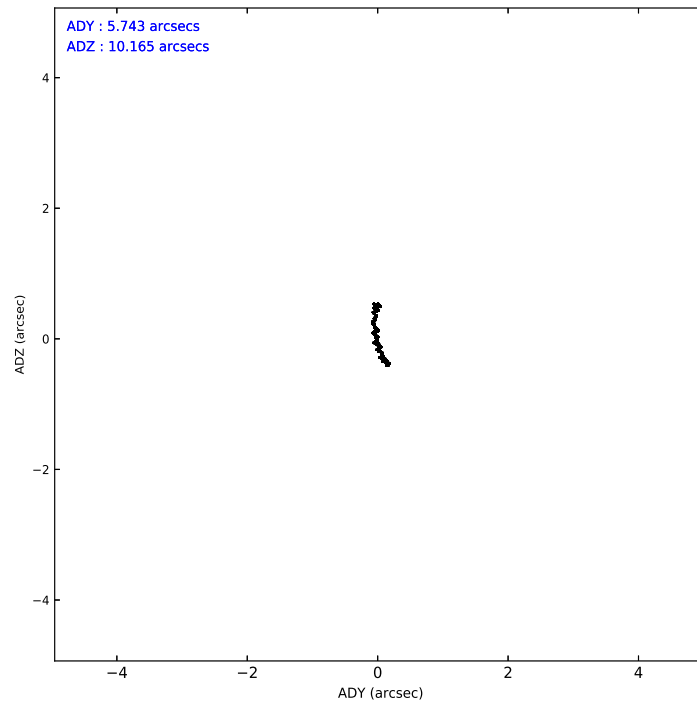
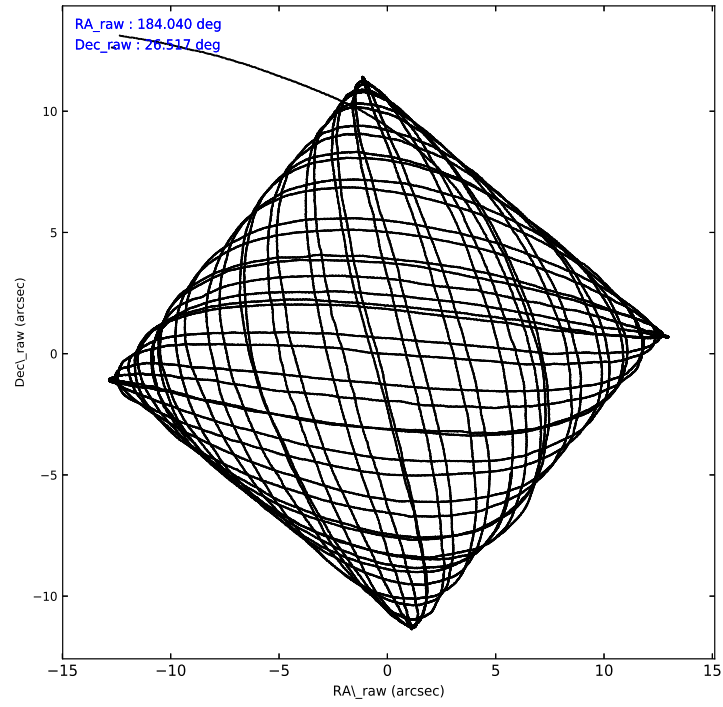
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	109913	107168	119368	117671	116182
rejected events	95675	90874	105407	103497	100872
rejected %	87%	84%	88%	87%	86%

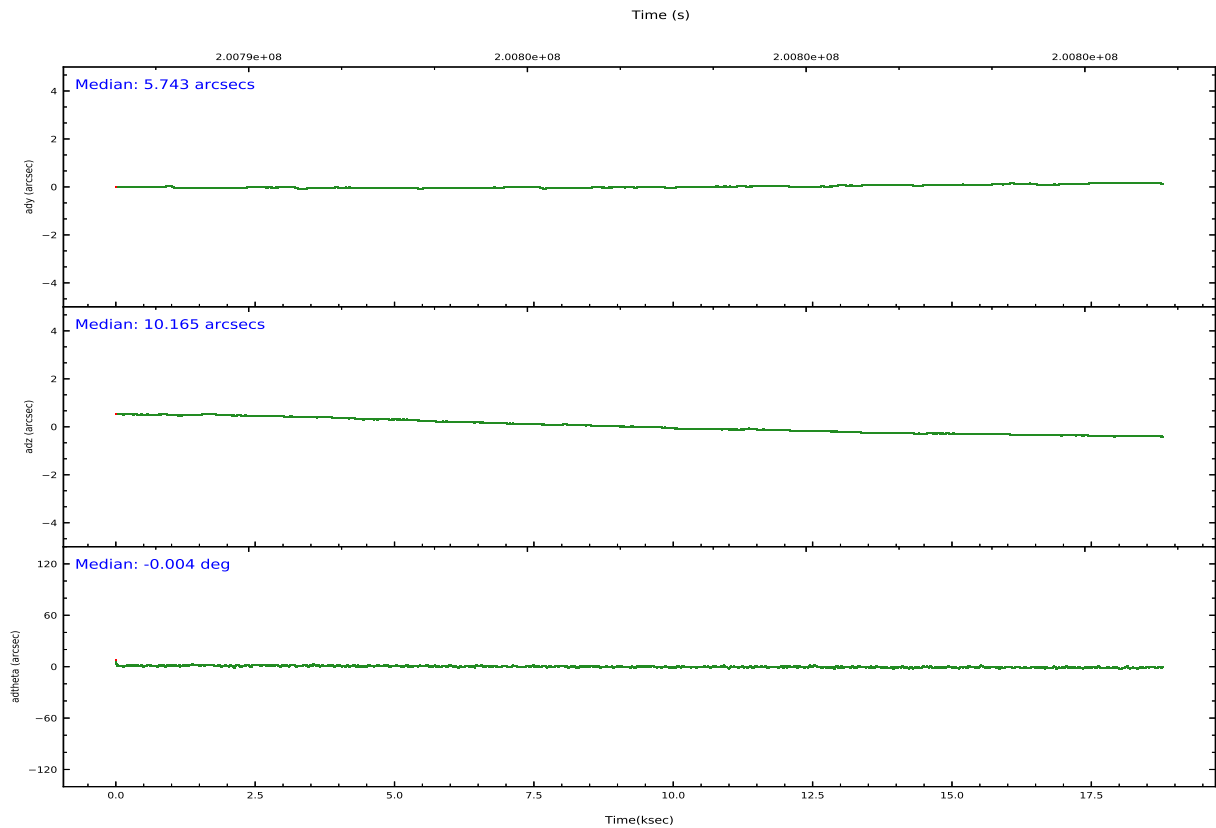
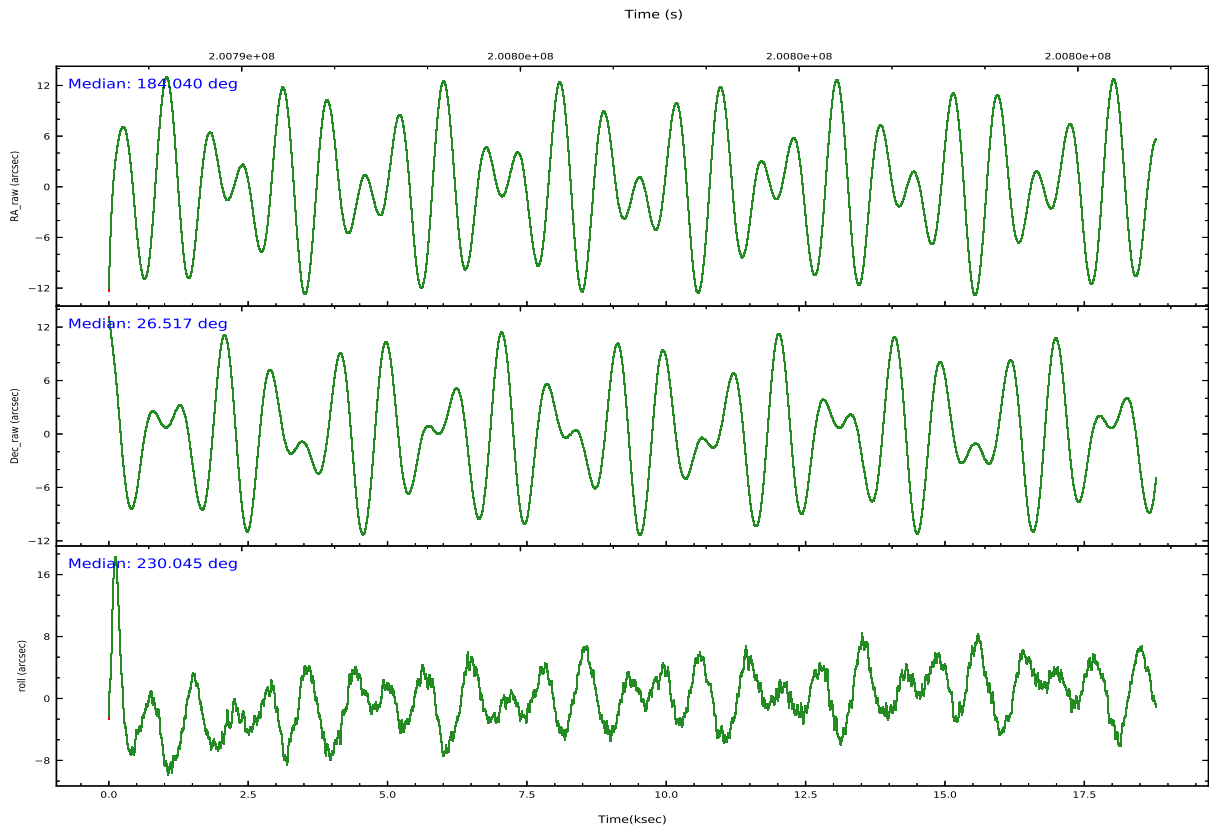
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6147	7368	6309	6488	7018
	5%	6%	5%	5%	6%
grade 1 events	57	39	81	68	48
	0%	0%	0%	0%	0%
grade 2 events	2975	3151	2829	2710	2855
	2%	2%	2%	2%	2%
grade 3 events	1423	1528	1341	1323	1478
	1%	1%	1%	1%	1%
grade 4 events	1305	1476	1341	1394	1387
	1%	1%	1%	1%	1%
grade 5 events	3951	4192	3792	4510	4410
	3%	3%	3%	3%	3%
grade 6 events	2395	2779	2145	2264	2596
	2%	2%	1%	1%	2%
grade 7 events	91660	86635	101530	98914	96390
	83%	80%	85%	84%	82%

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	184.045339	184.03884425387	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.543902	26.520076450388	Alternating exposures requested	N	N
[deg] Pointing Roll	229.833829	230.04504036181	[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)	200787804.184000	200786830.73893			
Observation start date	2004-05-12T22:22:20	2004-05-12T22:07:10			
[s] Observation end time (MET)	200806404.184000	200806804.40231			
Observation end date	2004-05-13T03:32:20	2004-05-13T03:40:04			
Read mode	TIMED	TIMED			

2.3 Aspect





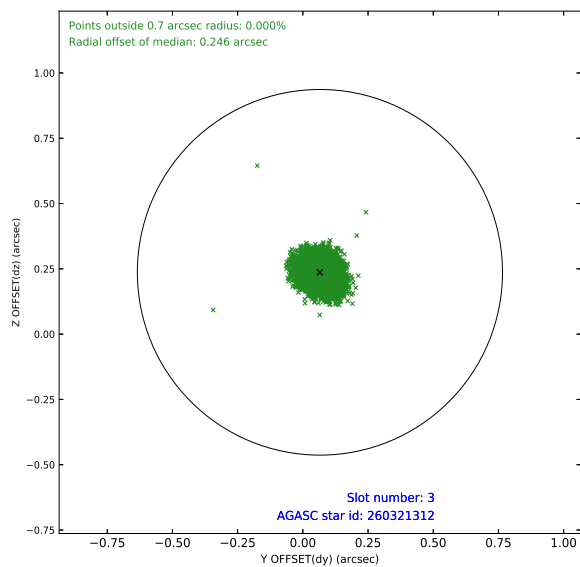
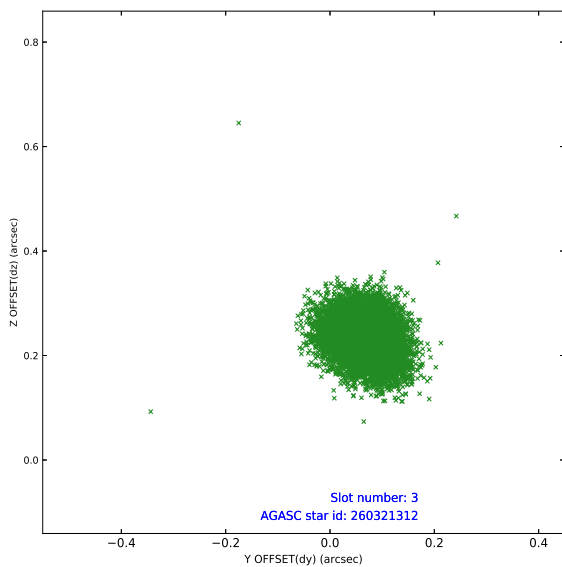
Slot Statistics

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-2	7.17	4583	1.000	-0.078	-0.077	0.009	0.015	0.000000	0.000000	-760.82	-998
1	FID		ACIS-I-4	7.14	4582	1.000	0.095	0.070	0.006	0.011	0.000000	0.000000	2153.23	908
2	FID		ACIS-I-5	7.22	4581	1.000	-0.118	0.076	0.009	0.014	0.000000	0.000000	-1814.06	905
3	GUIDE	used	260321312	8.28	9164	1.000	0.066	0.237	0.057	0.094	184.034877	25.760374	2177.60	1794
4	GUIDE	used	260571288	9.36	9159	1.000	0.102	-0.132	0.083	0.135	183.941764	26.295680	898.88	321
5	GUIDE	used	260577864	10.01	9154	1.000	-0.171	0.011	0.141	0.230	184.065495	26.976892	-1232.67	-956
6	GUIDE	used	260578056	10.13	9089	1.000	-0.026	-0.012	0.116	0.189	184.079523	26.927120	-1124.96	-806
7	GUIDE	used	260579208	7.32	9165	1.000	0.024	-0.097	0.058	0.091	183.575455	26.504798	1082.01	-1067

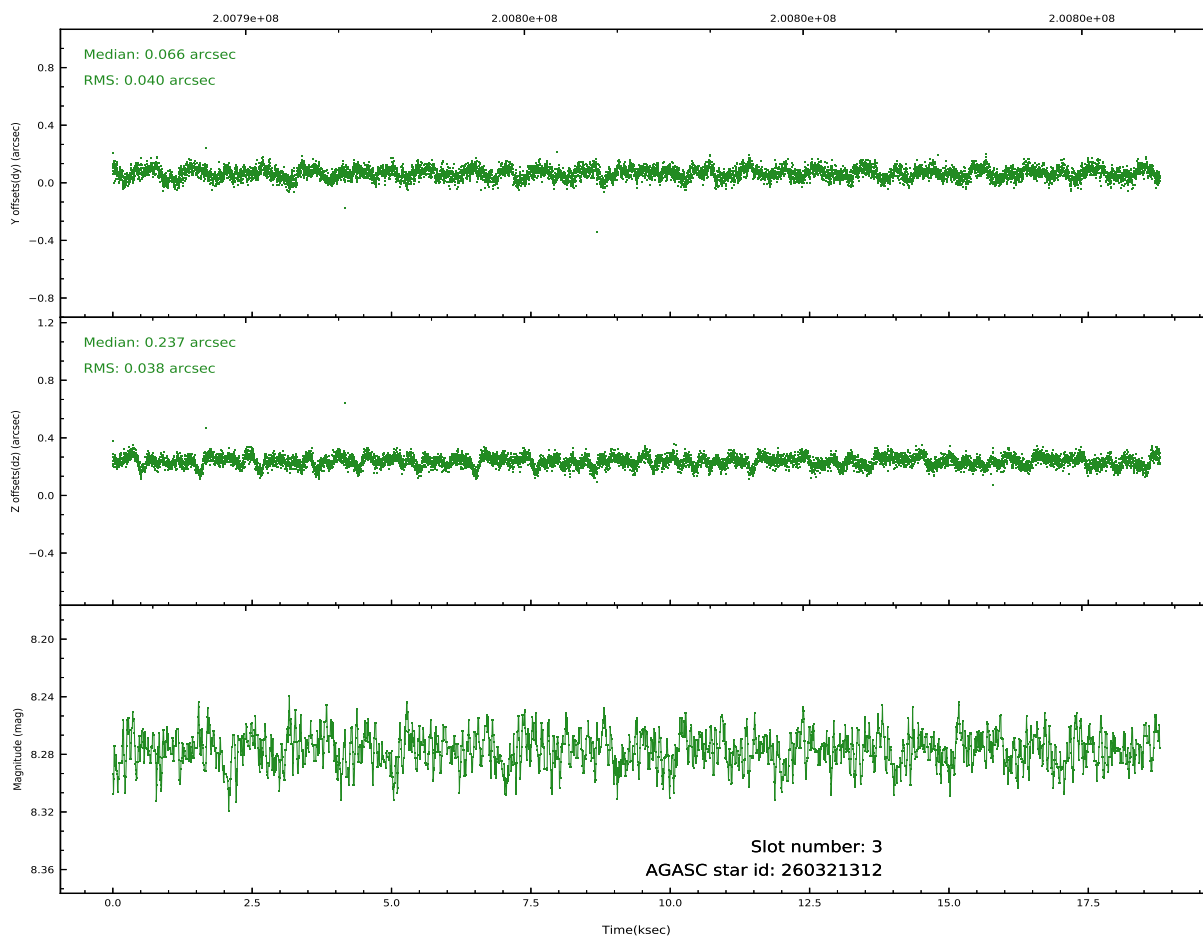
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2.4 Star Slots

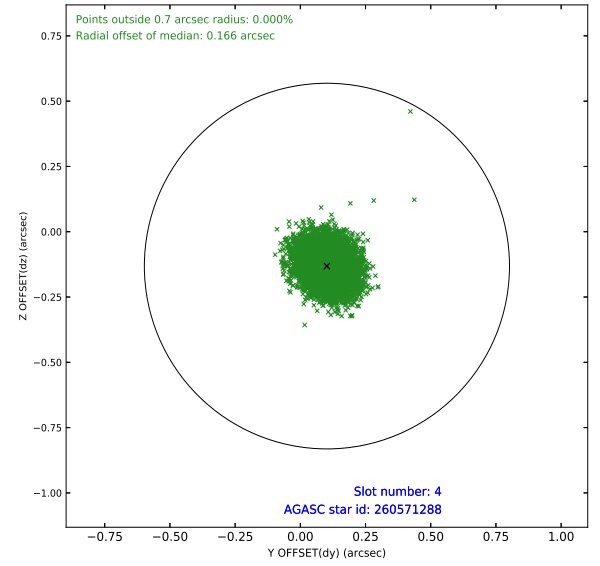
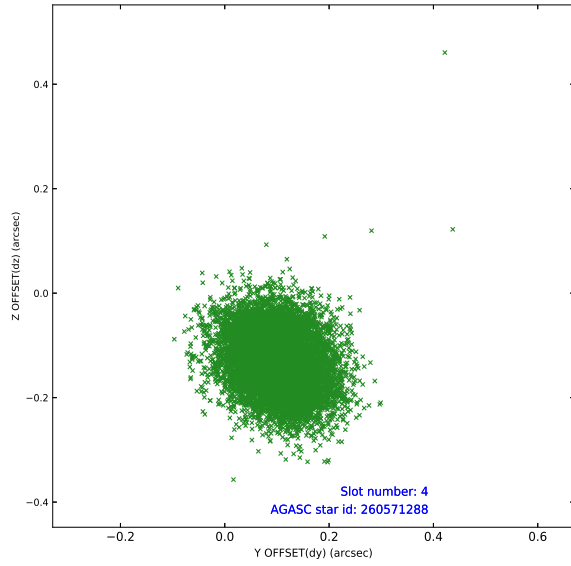
2.4.1 Slot 3



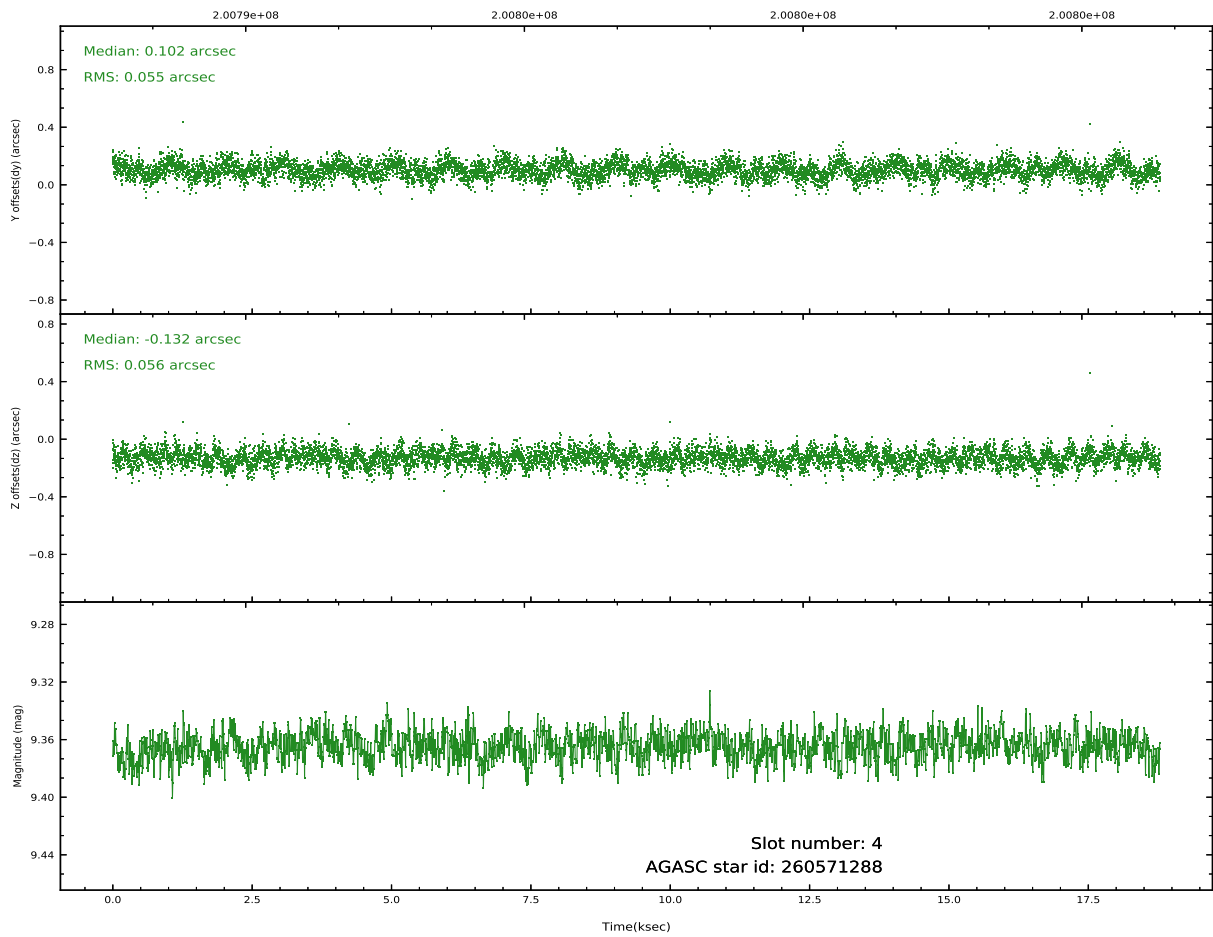
Time (s)



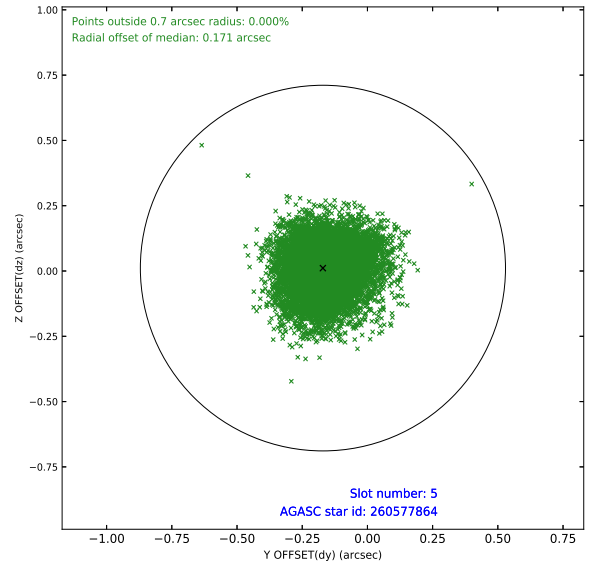
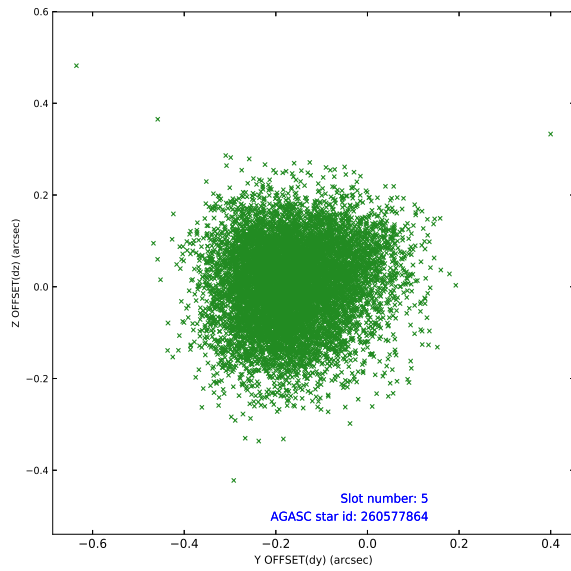
2.4.2 Slot 4



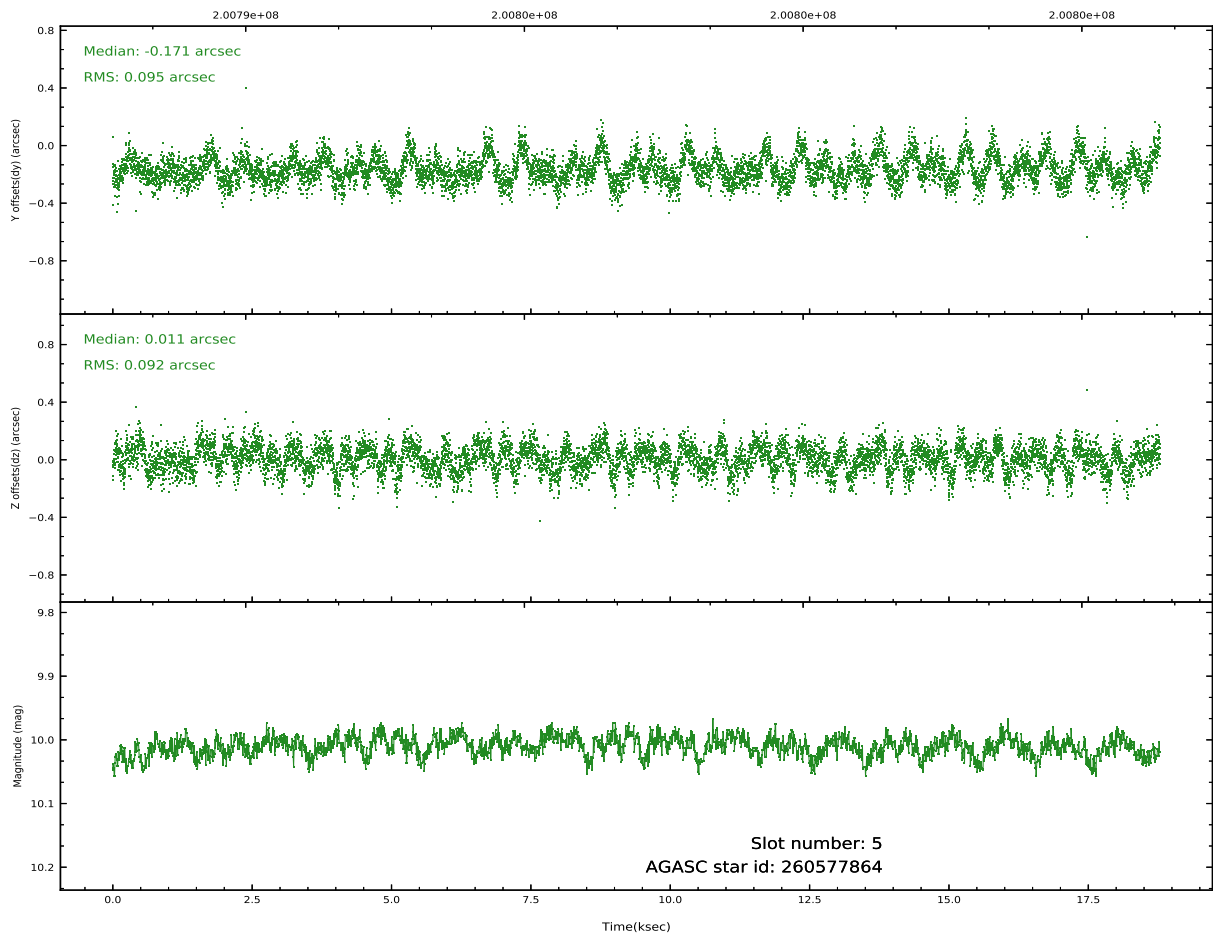
Time (s)



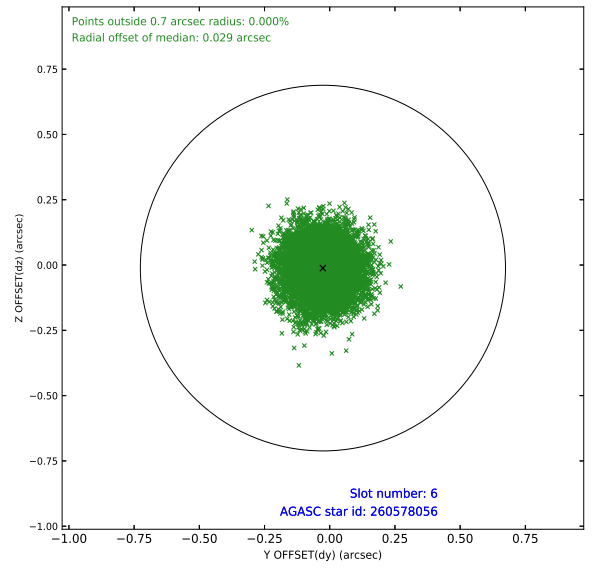
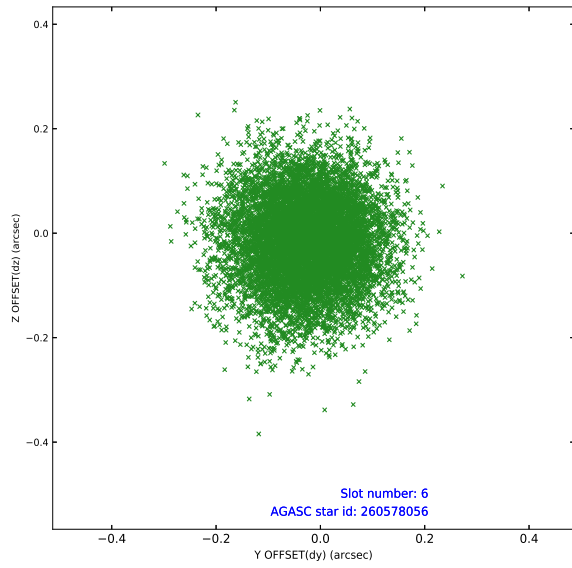
2.4.3 Slot 5



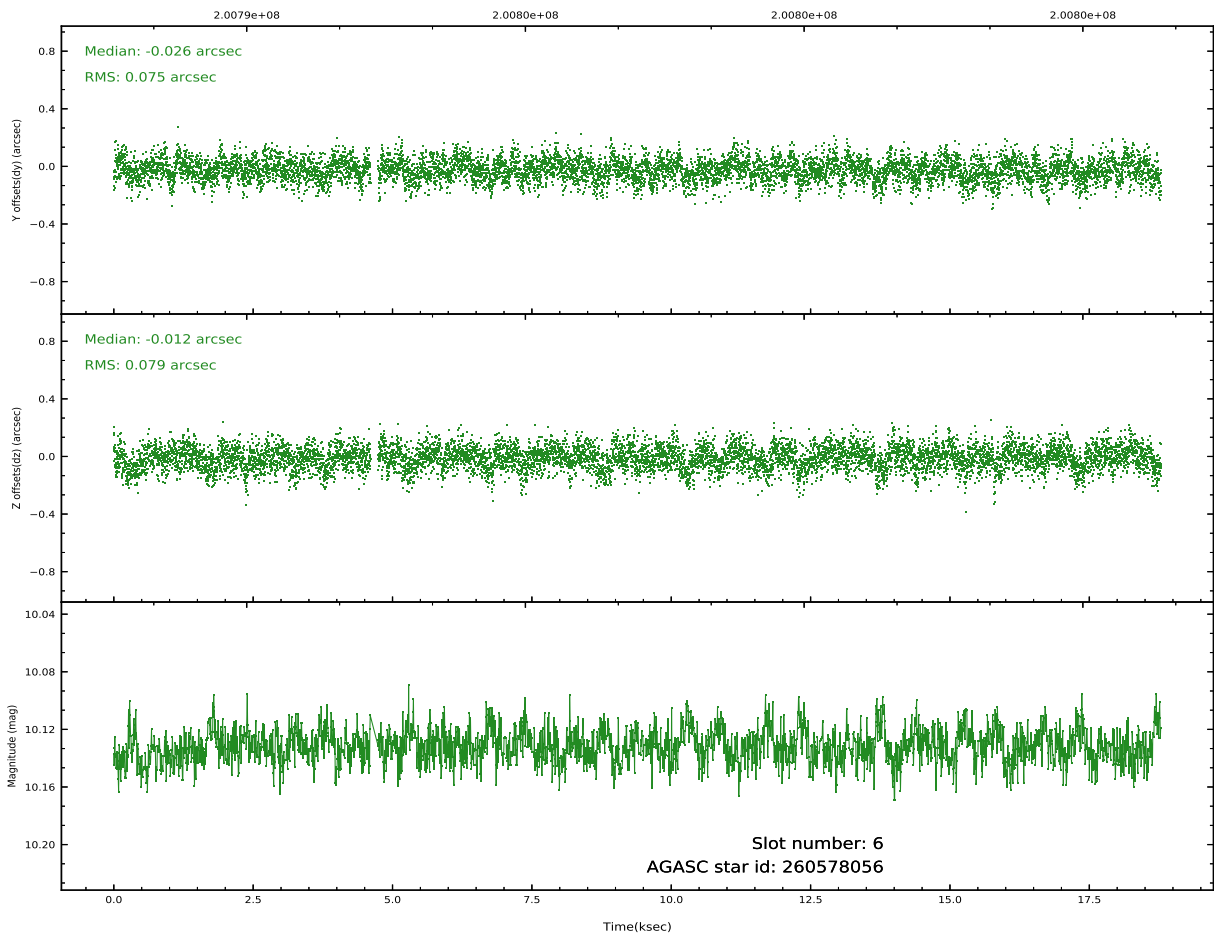
Time (s)



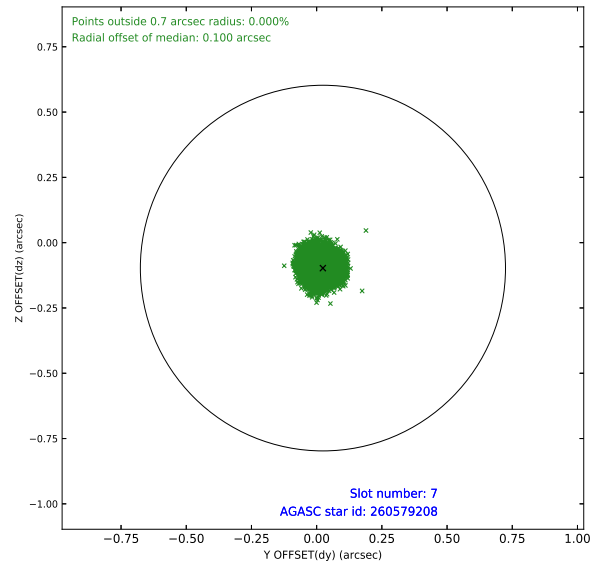
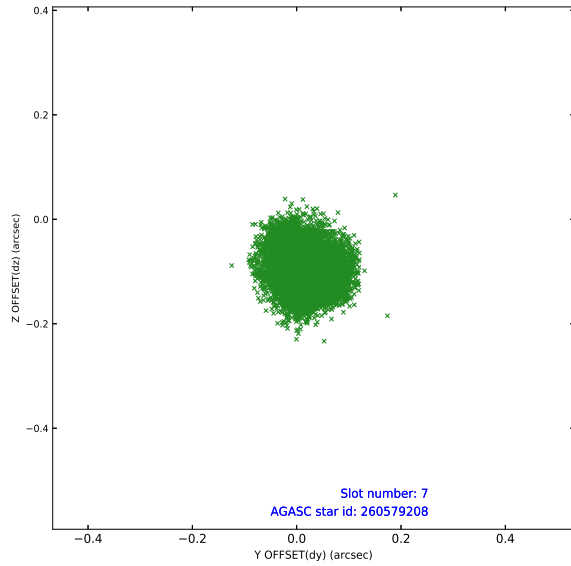
2.4.4 Slot 6



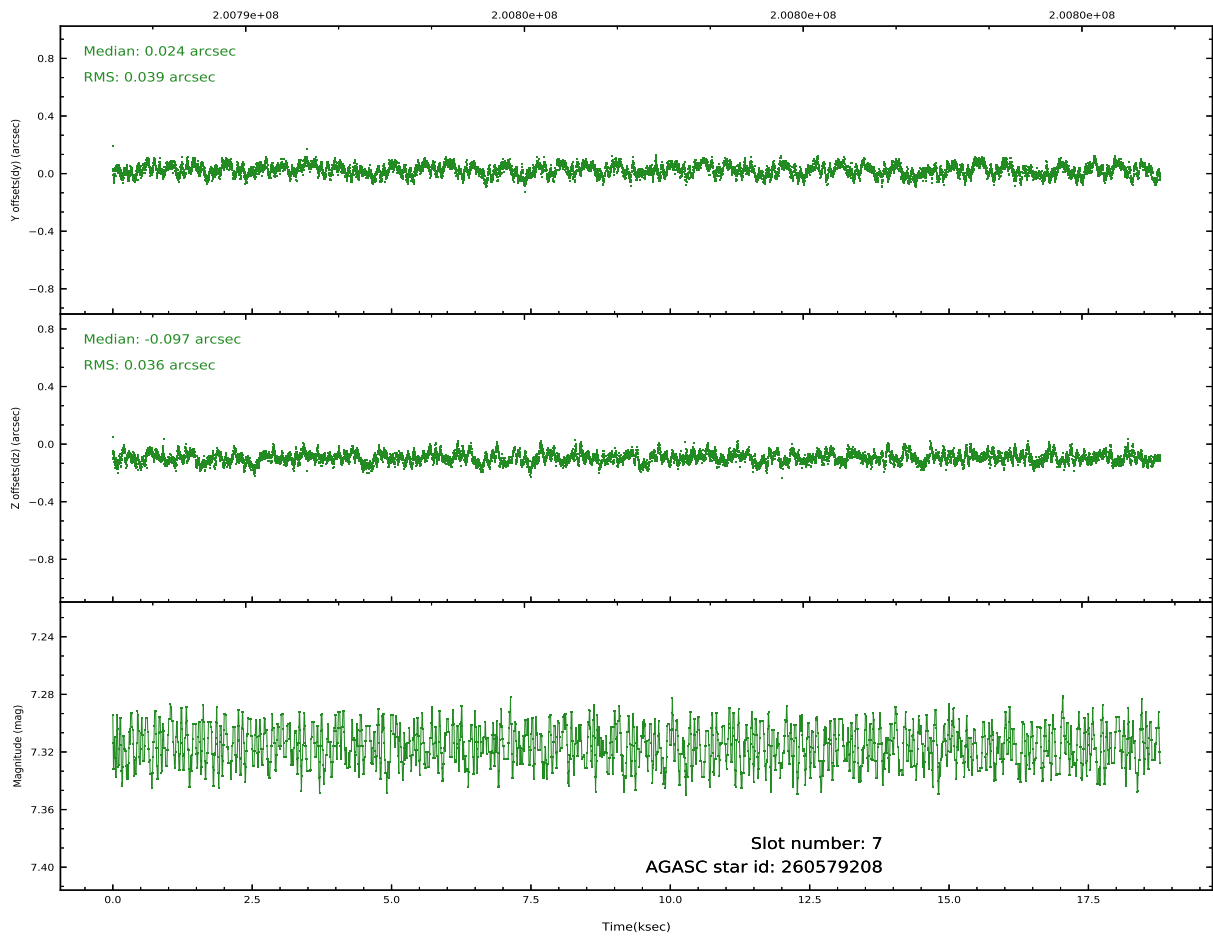
Time (s)



2.4.5 Slot 7

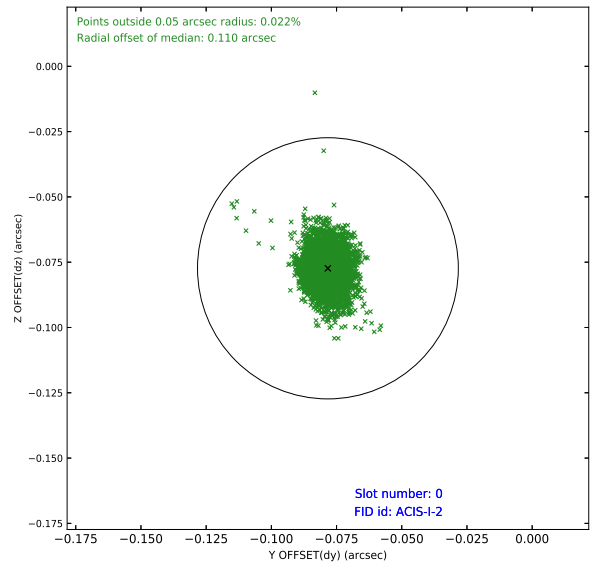
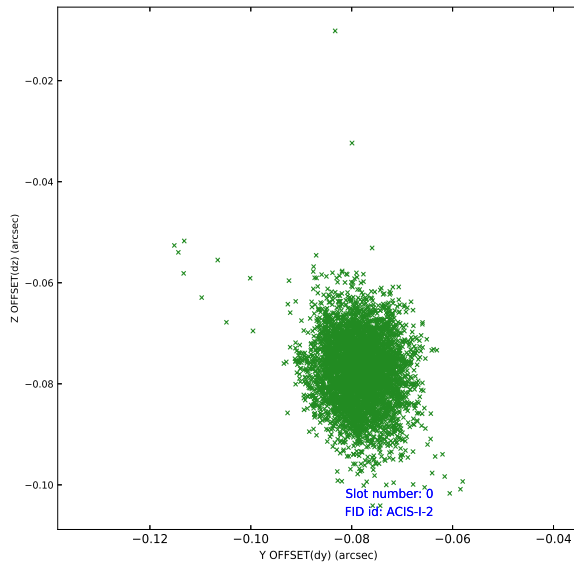


Time (s)

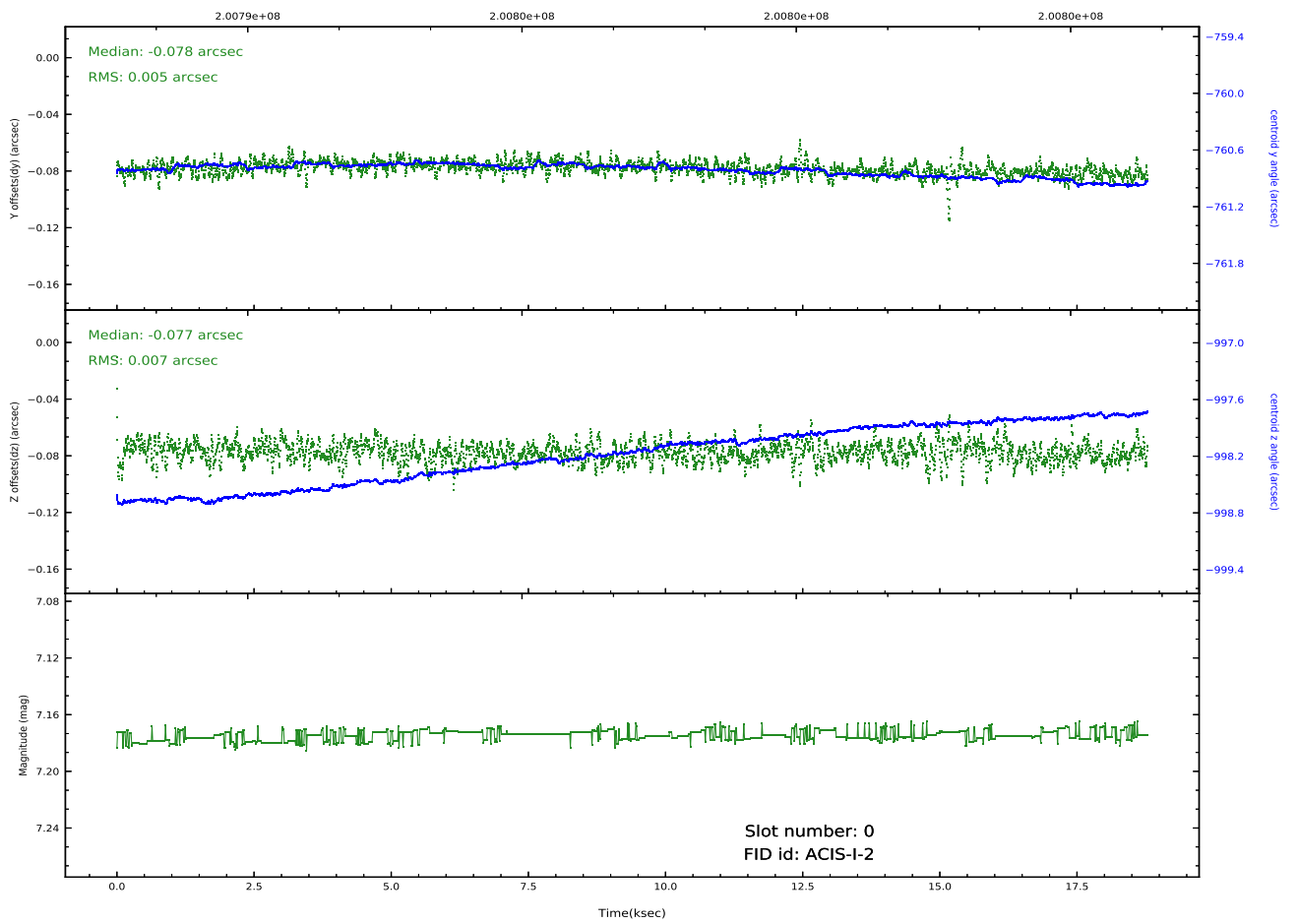


2.5 FID Slots

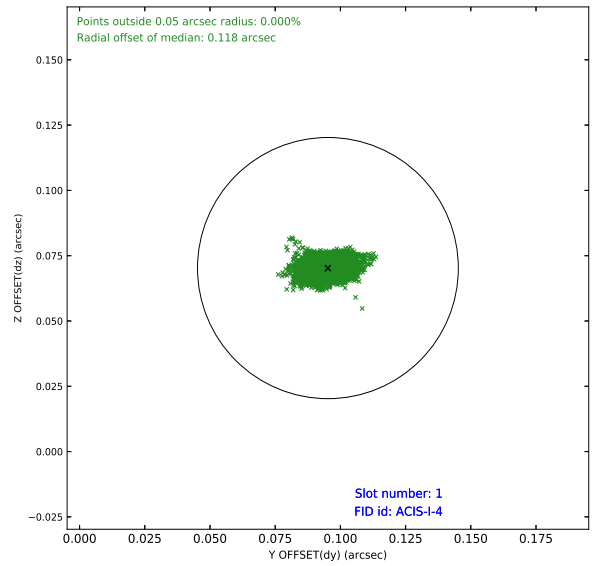
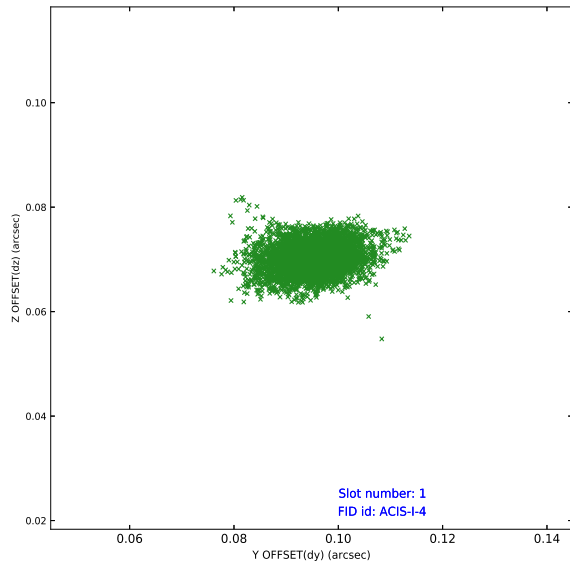
2.5.1 Slot 0



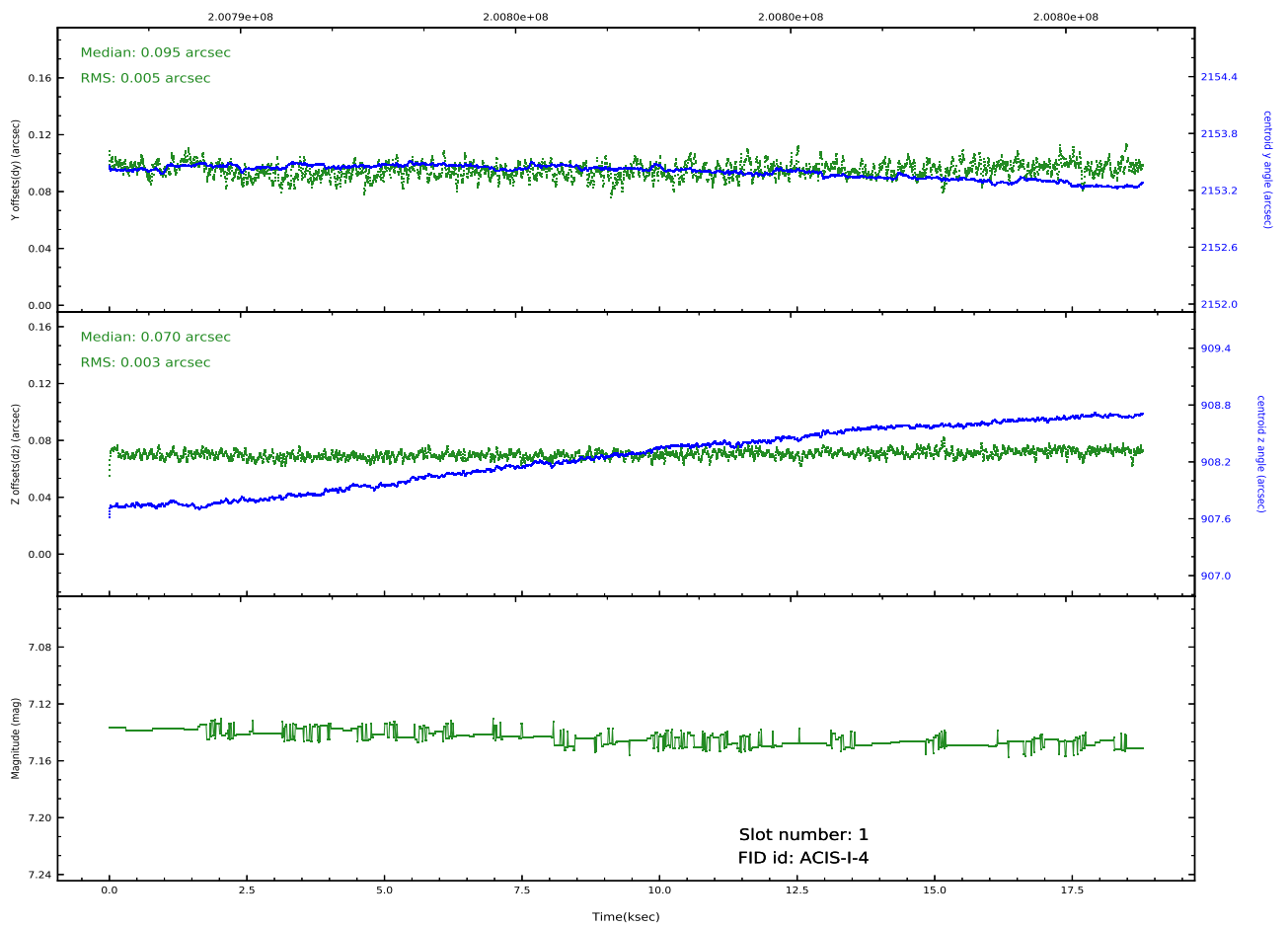
Time (s)



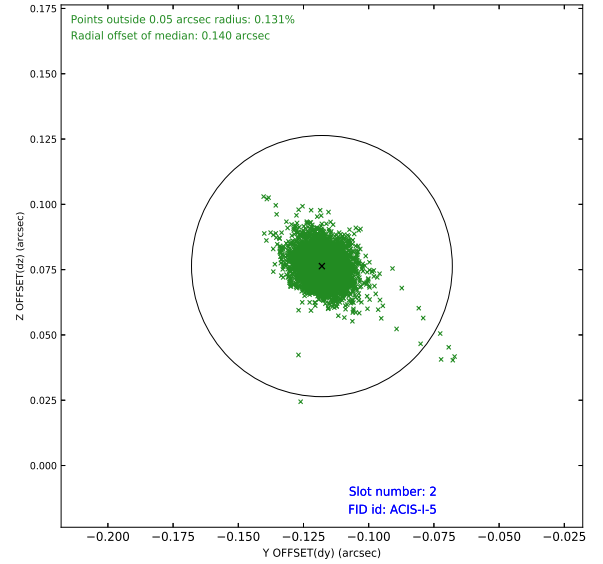
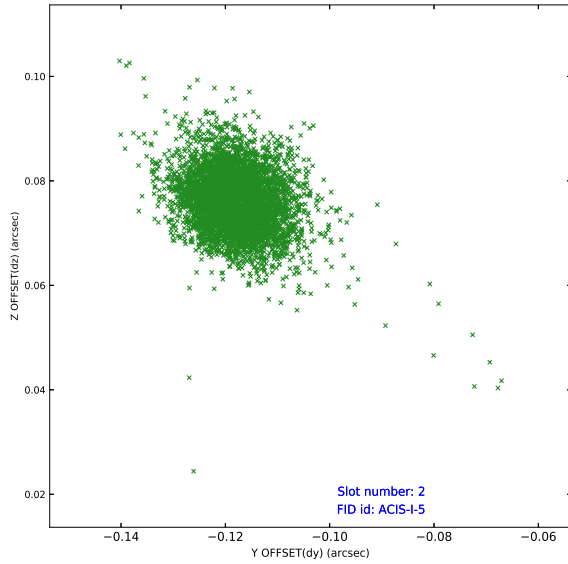
2.5.2 Slot 1



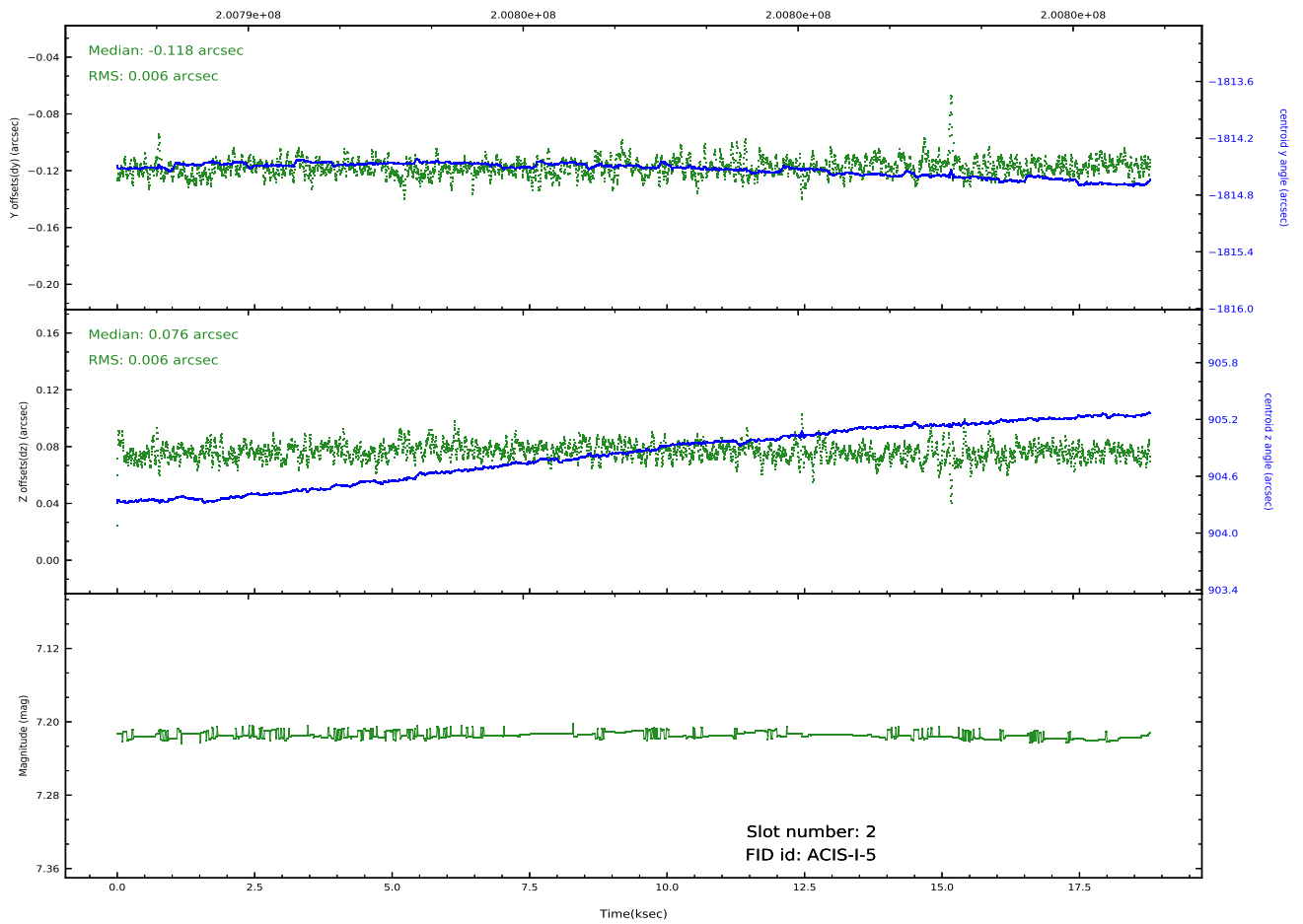
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.739

A.2 Comments