

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5604 - L2 Version 4
Chandra X-Ray Center

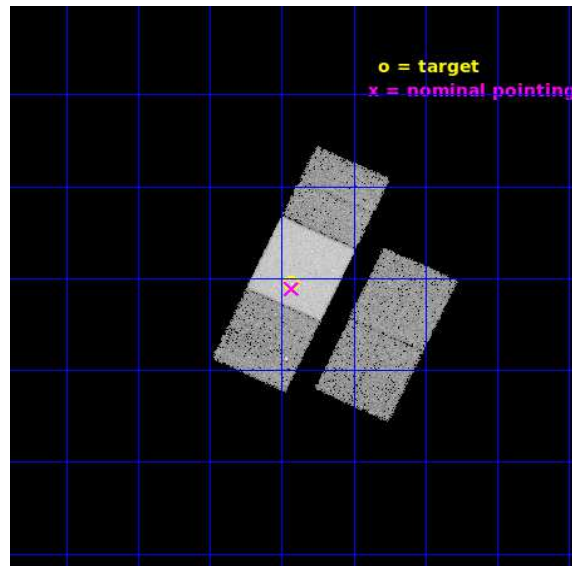
L2 Processing Date : Oct 6 2020

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1 Front

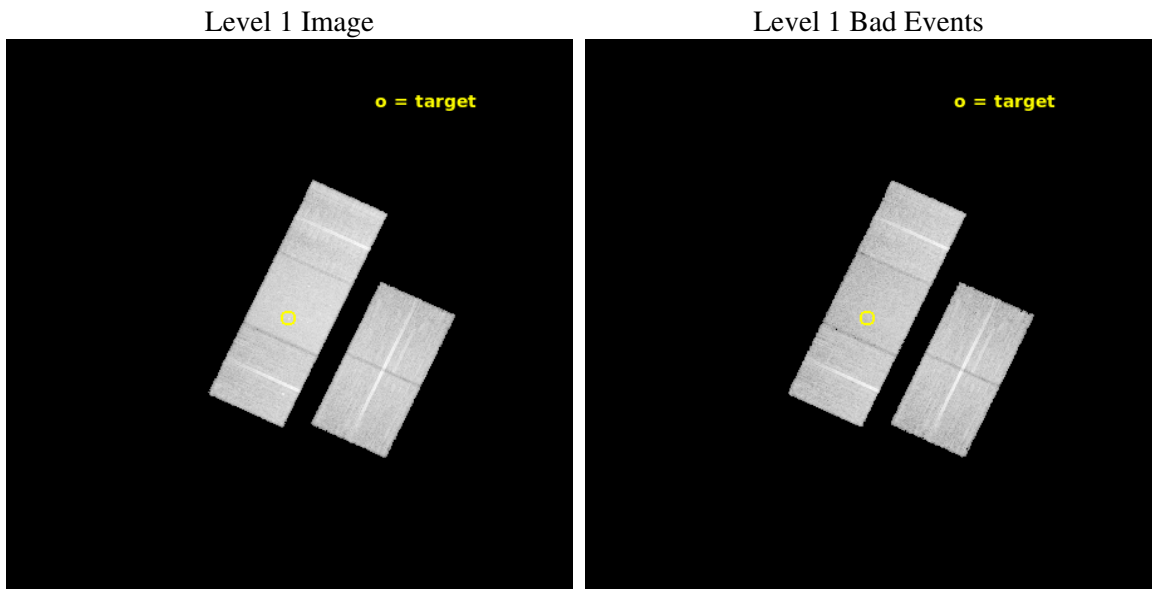
seq_num	701027	Sequence number
obs_id	5604	Observation id
title	A Study of Quasar Evolution With The Aid Of Lensing	Proposal title
observer	Gordon Garmire	Principal investigator
object	SDSSJ0924+0219	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.232917	Observer's specified target RA [deg]
dec_targ	2.323583	Observer's specified target Dec [deg]
ra_nom	141.23237289858	Nominal RA [deg]
dec_nom	2.3145822887625	Nominal Dec [deg]
roll_nom	295.1752530533	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18181.499965012	Sum of GTIs [s]
liveltime	17943.945282944	Livetime [s]
ontime2	18178.358964831	Sum of GTIs [s]
ontime3	18178.358984768	Sum of GTIs [s]
ontime6	18181.499965012	Sum of GTIs [s]
ontime7	18181.499965012	Sum of GTIs [s]
ontime8	18178.358974755	Sum of GTIs [s]
l2events	129398	Number of level 2 events



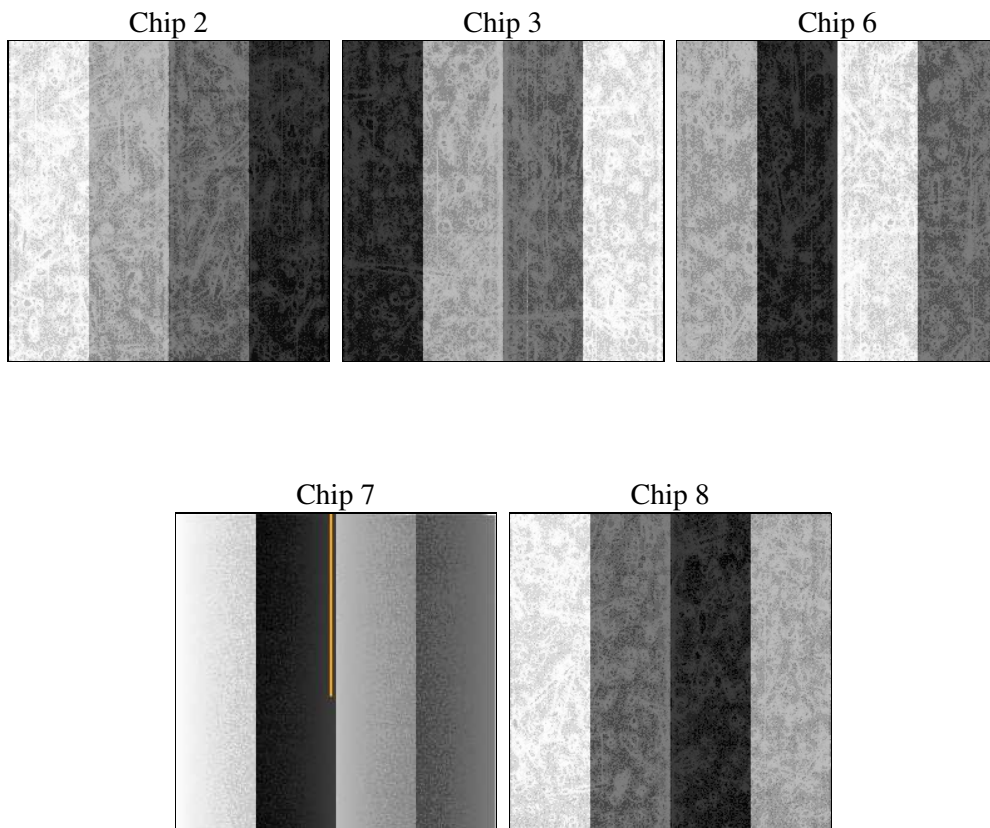
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18181.499965012	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	18178.358964831	Sum of GTIs [s]
date	2020-10-06T22:43:11	Date and time of file creation	ontime3	18178.358984768	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	18181.499965012	Sum of GTIs [s]
			ontime7	18181.499965012	Sum of GTIs [s]
			ontime8	18178.358974755	Sum of GTIs [s]
			l1events	814747	Number of level 1 events

2.1.4 Events

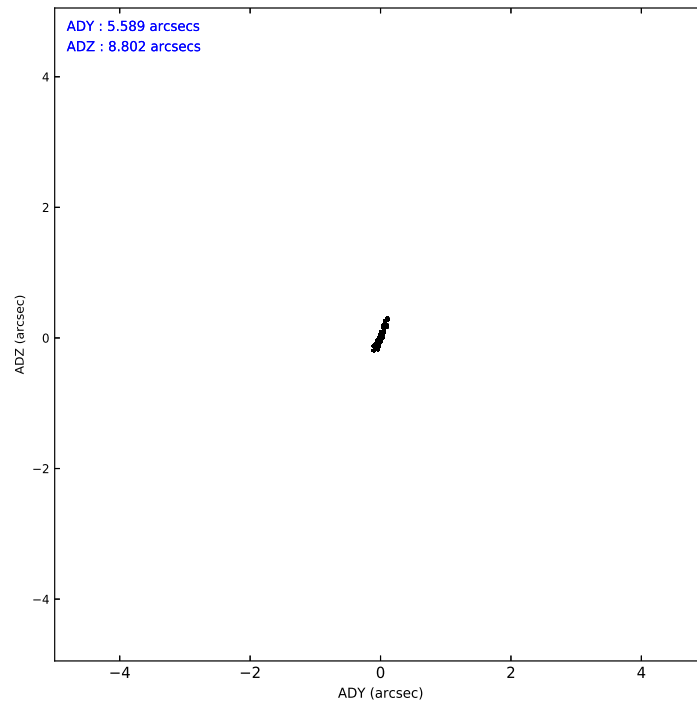
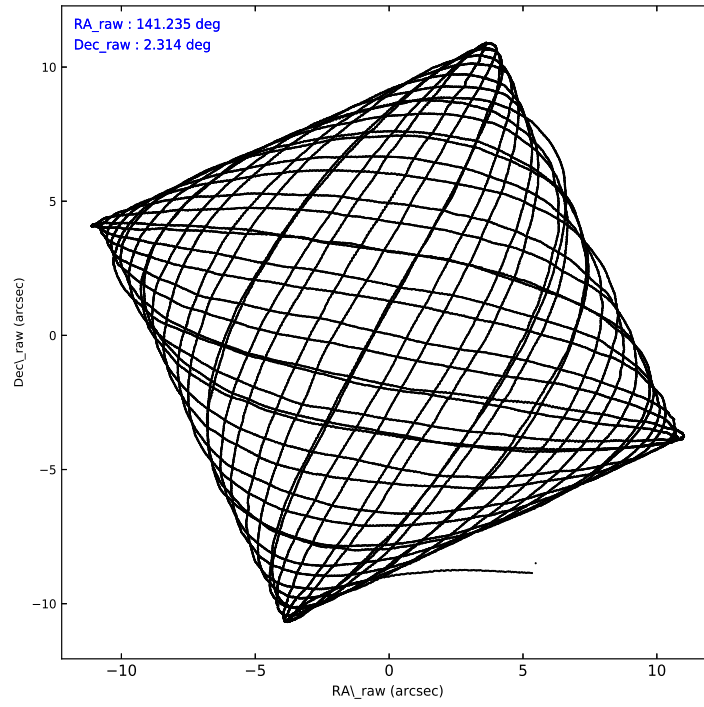
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	142593	142082	149099	195863	185110
rejected events	126913	126577	132710	121351	148944
rejected %	89%	89%	89%	61%	80%

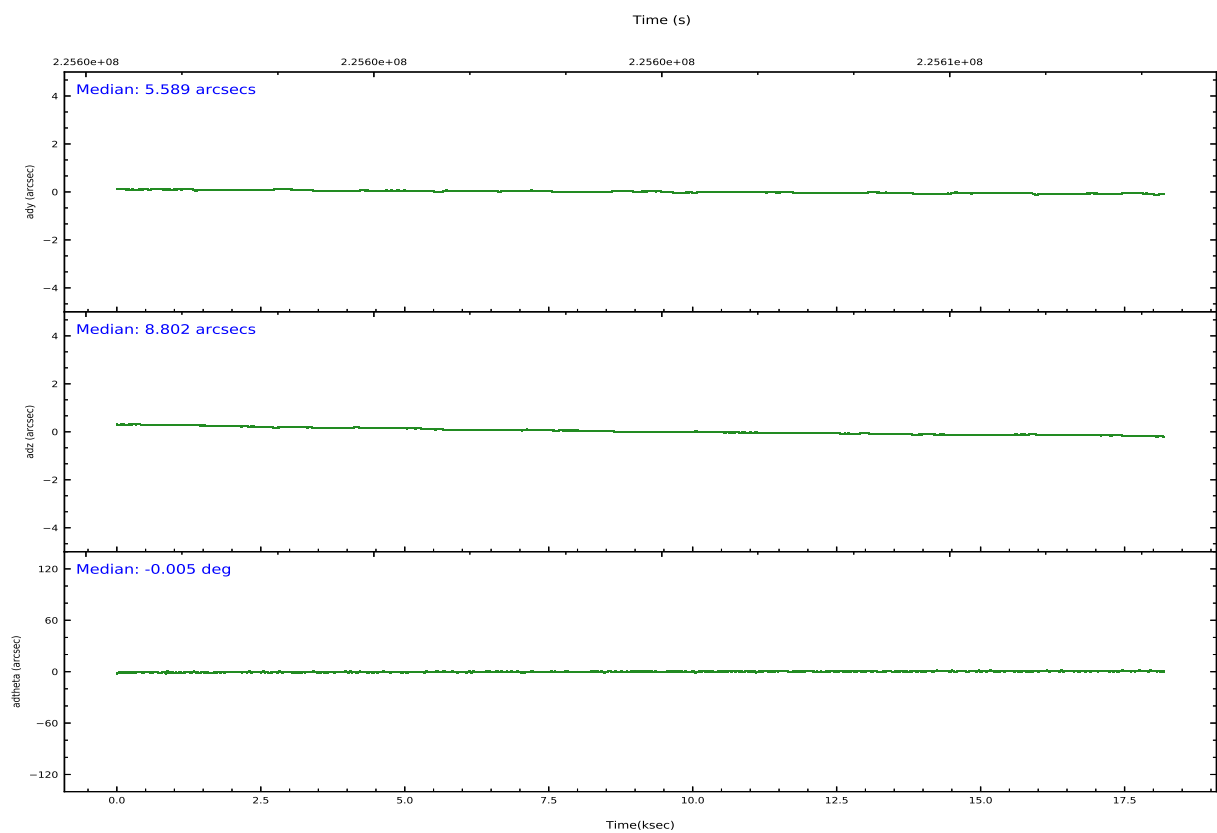
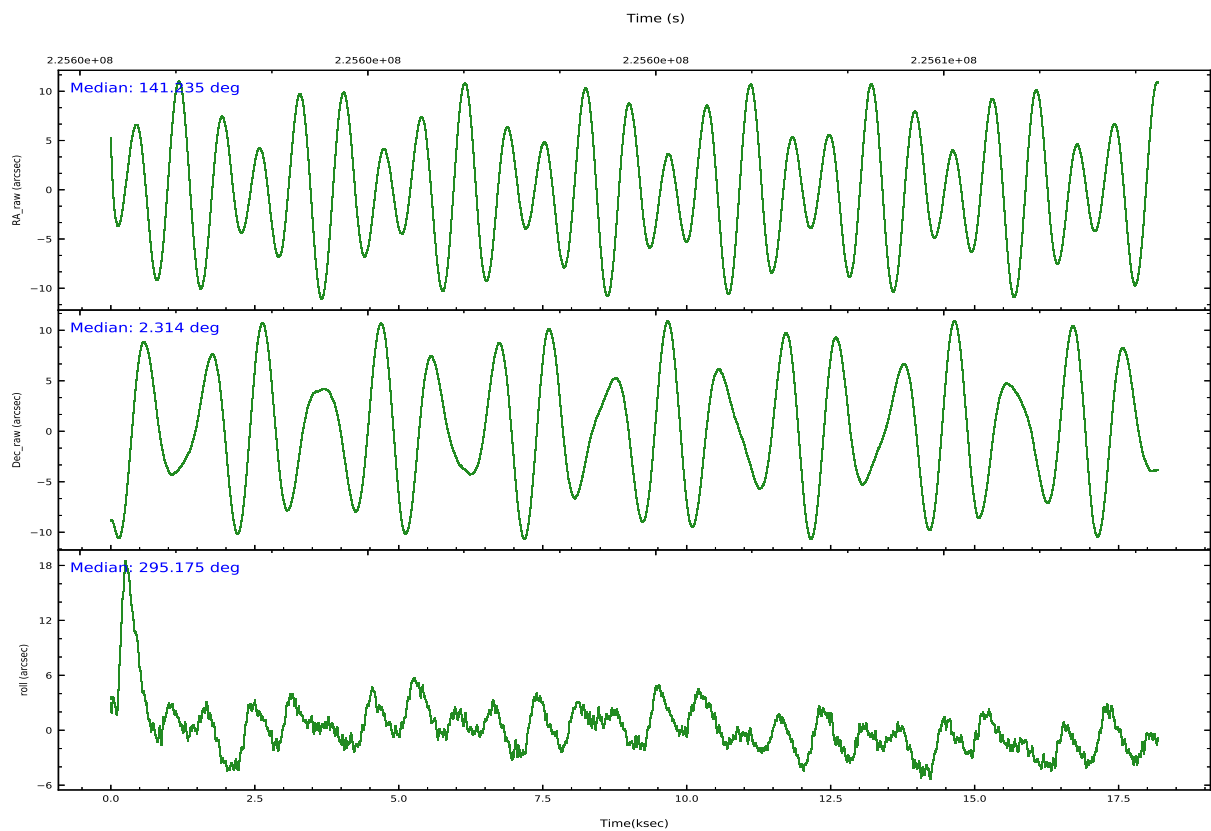
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7506	7090	7011	7235	12312
	5%	4%	4%	3%	6%
grade 1 events	83	82	62	193	125
	0%	0%	0%	0%	0%
grade 2 events	3526	3325	3747	16163	8578
	2%	2%	2%	8%	4%
grade 3 events	1647	1730	1700	7270	4148
	1%	1%	1%	3%	2%
grade 4 events	1622	1729	1648	7096	3895
	1%	1%	1%	3%	2%
grade 5 events	5634	6675	6943	18805	8950
	3%	4%	4%	9%	4%
grade 6 events	2765	2895	3655	43122	10285
	1%	2%	2%	22%	5%
grade 7 events	119810	118556	124333	95979	136817
	84%	83%	83%	49%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	141.212851	141.23237289858	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.329489	2.3145822887625	Alternating exposures requested	N	N
[deg] Pointing Roll	295.022410	295.1752530533	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	225595722.184000	225593943.34791			
Observation start date	2005-02-24T01:27:38	2005-02-24T00:59:03			
[s] Observation end time (MET)	225613722.184000	225615419.66138			
Observation end date	2005-02-24T06:27:38	2005-02-24T06:56:59			
Read mode	TIMED	TIMED			

2.3 Aspect



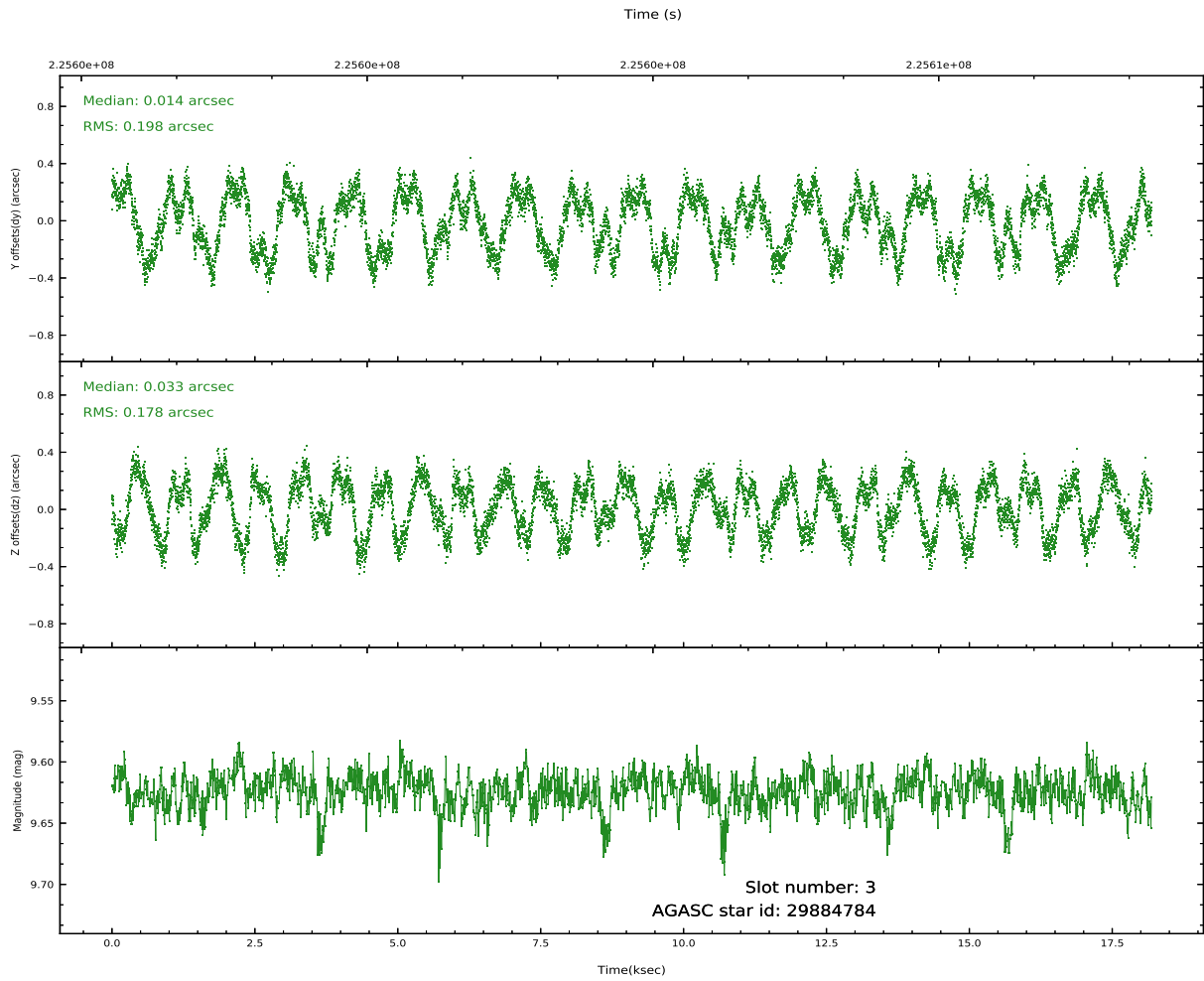
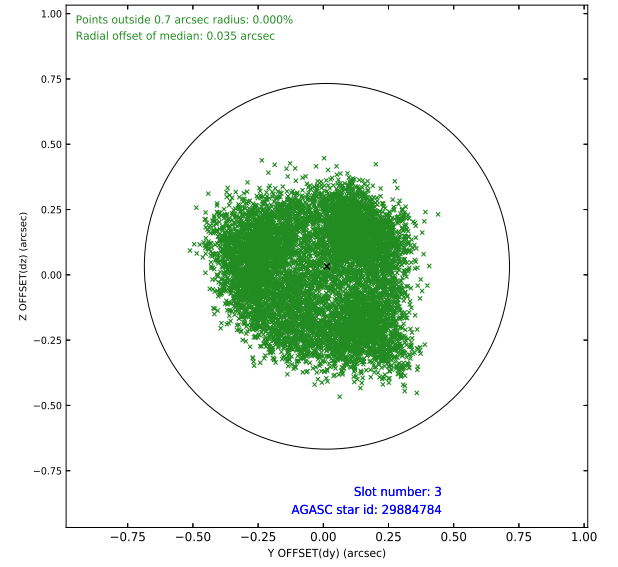
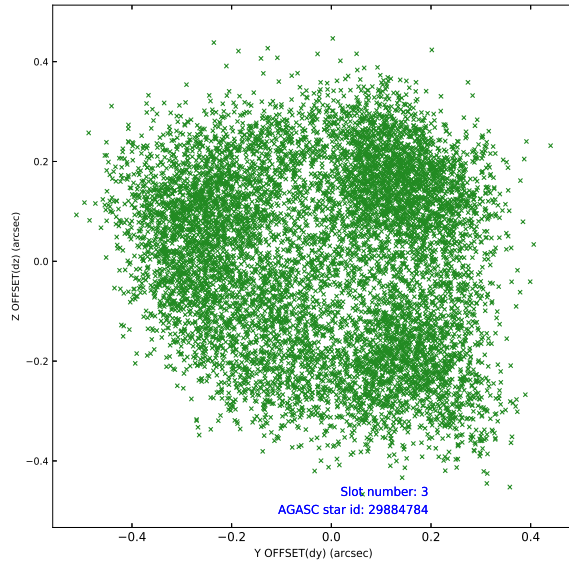


Slot Statistics

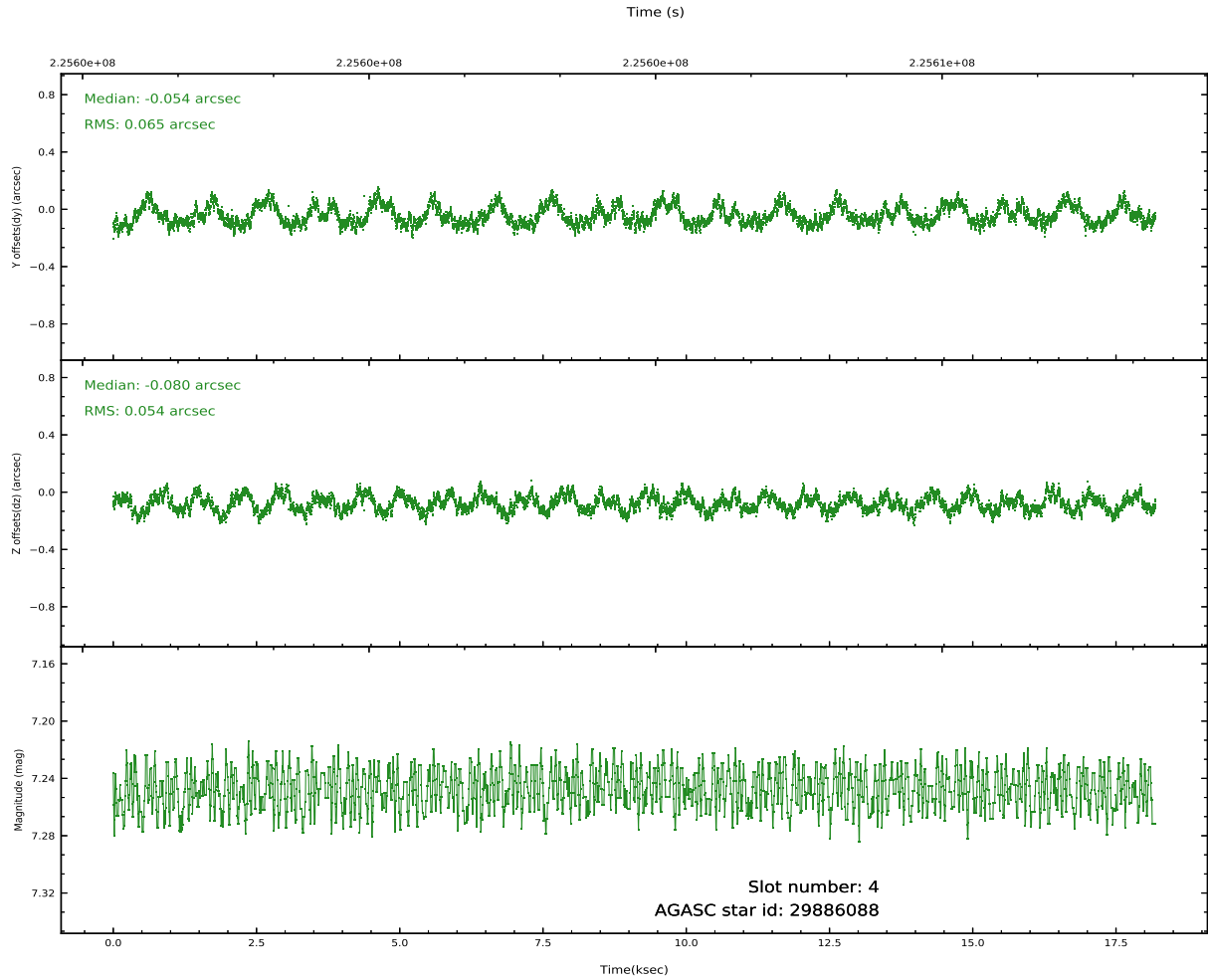
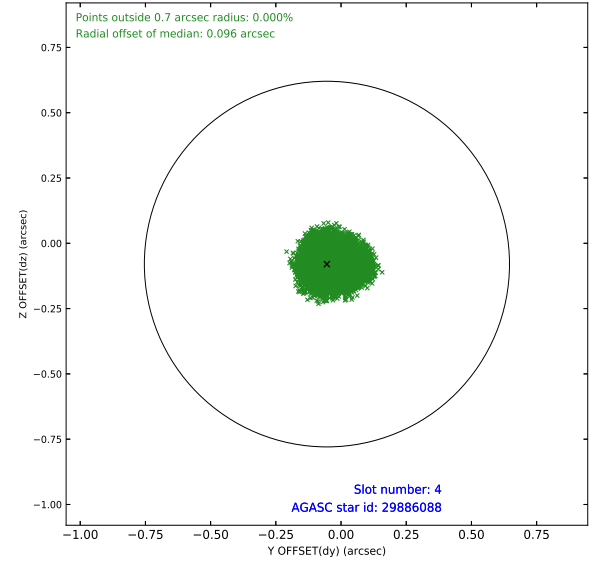
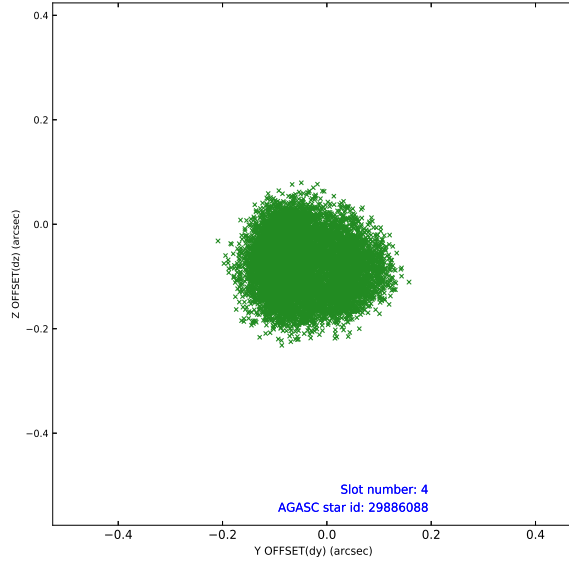
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	4435	1.000	-0.084	-0.093	0.008	0.012	0.000000	0.000000	-758.37	-1730
1	FID		ACIS-S-4	7.21	4436	1.000	0.171	0.065	0.006	0.012	0.000000	0.000000	2155.04	178
2	FID		ACIS-S-5	7.23	4436	1.000	-0.118	0.036	0.007	0.011	0.000000	0.000000	-1810.98	172
3	GUIDE	used	29884784	9.62	8865	1.000	0.014	0.033	0.293	0.402	141.525924	2.331696	469.20	1024
4	GUIDE	used	29886088	7.25	8872	1.000	-0.054	-0.080	0.093	0.138	140.911389	2.409953	-720.96	-859
5	GUIDE	used	30288368	7.56	8873	1.000	-0.091	-0.009	0.120	0.179	141.501110	3.030300	-1848.32	2006
6	GUIDE	used	30288600	9.07	8870	1.000	0.066	0.003	0.095	0.147	141.552019	2.678221	-621.91	1636
7	GUIDE	used	30290968	9.48	8866	1.000	0.076	0.075	0.095	0.151	140.928070	2.739309	-1770.00	-303

2.4 Star Slots

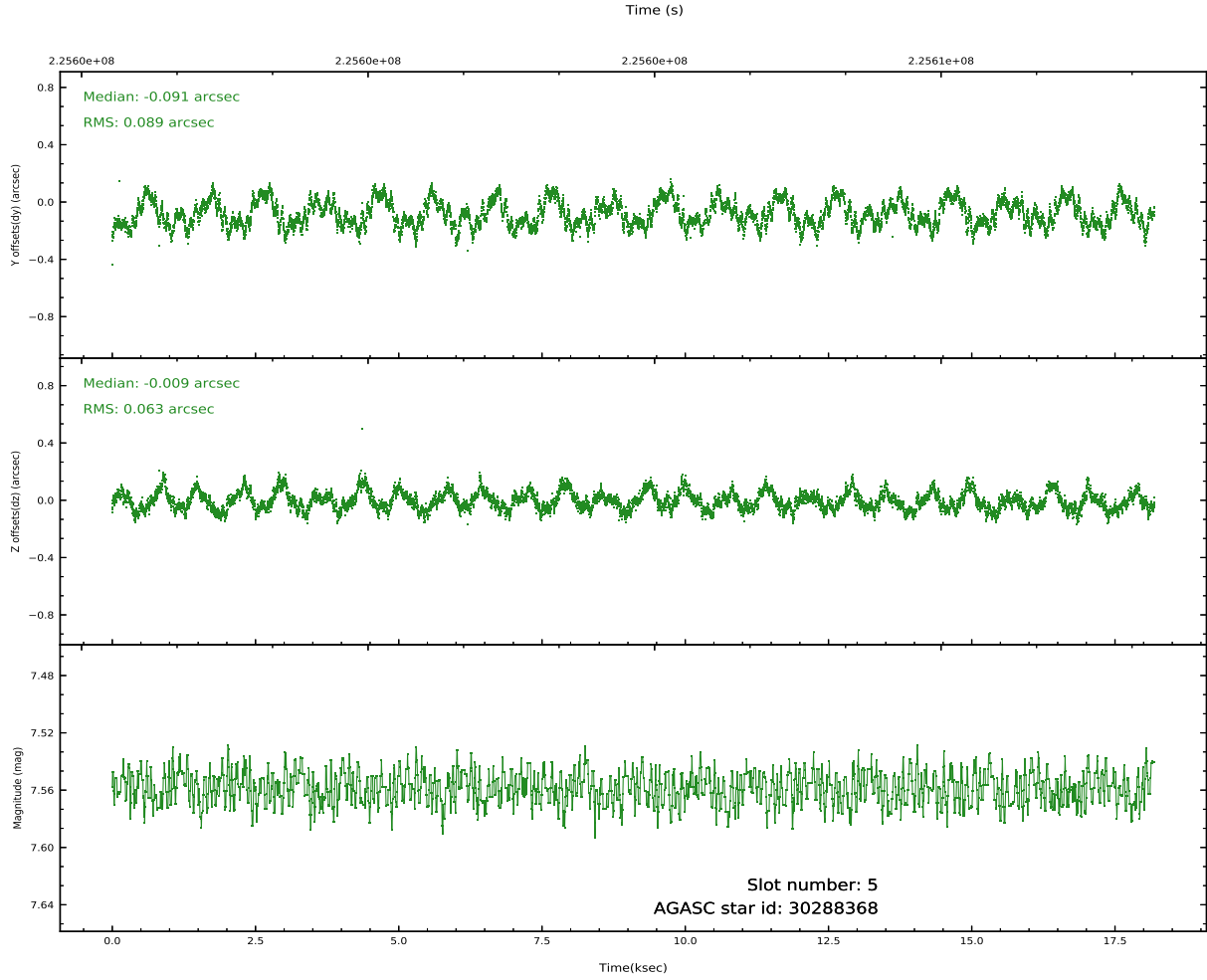
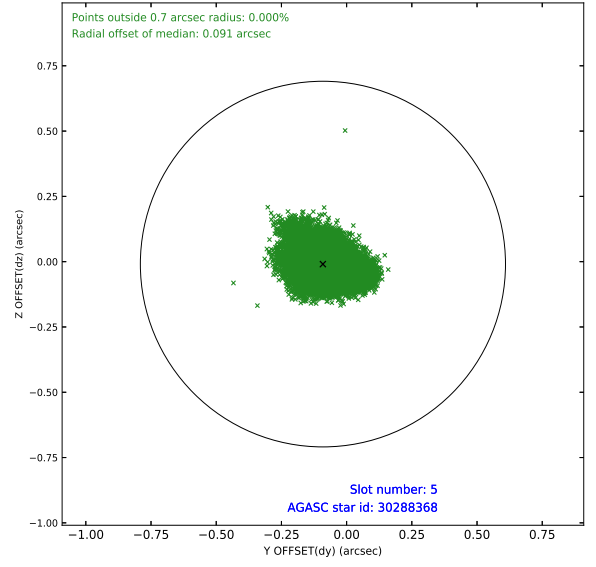
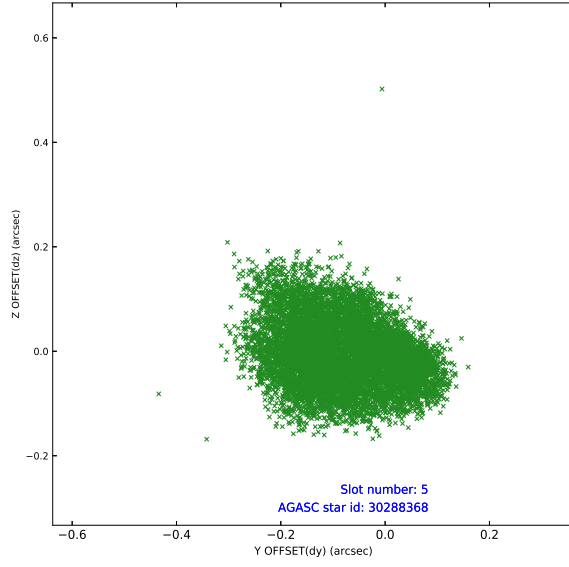
2.4.1 Slot 3



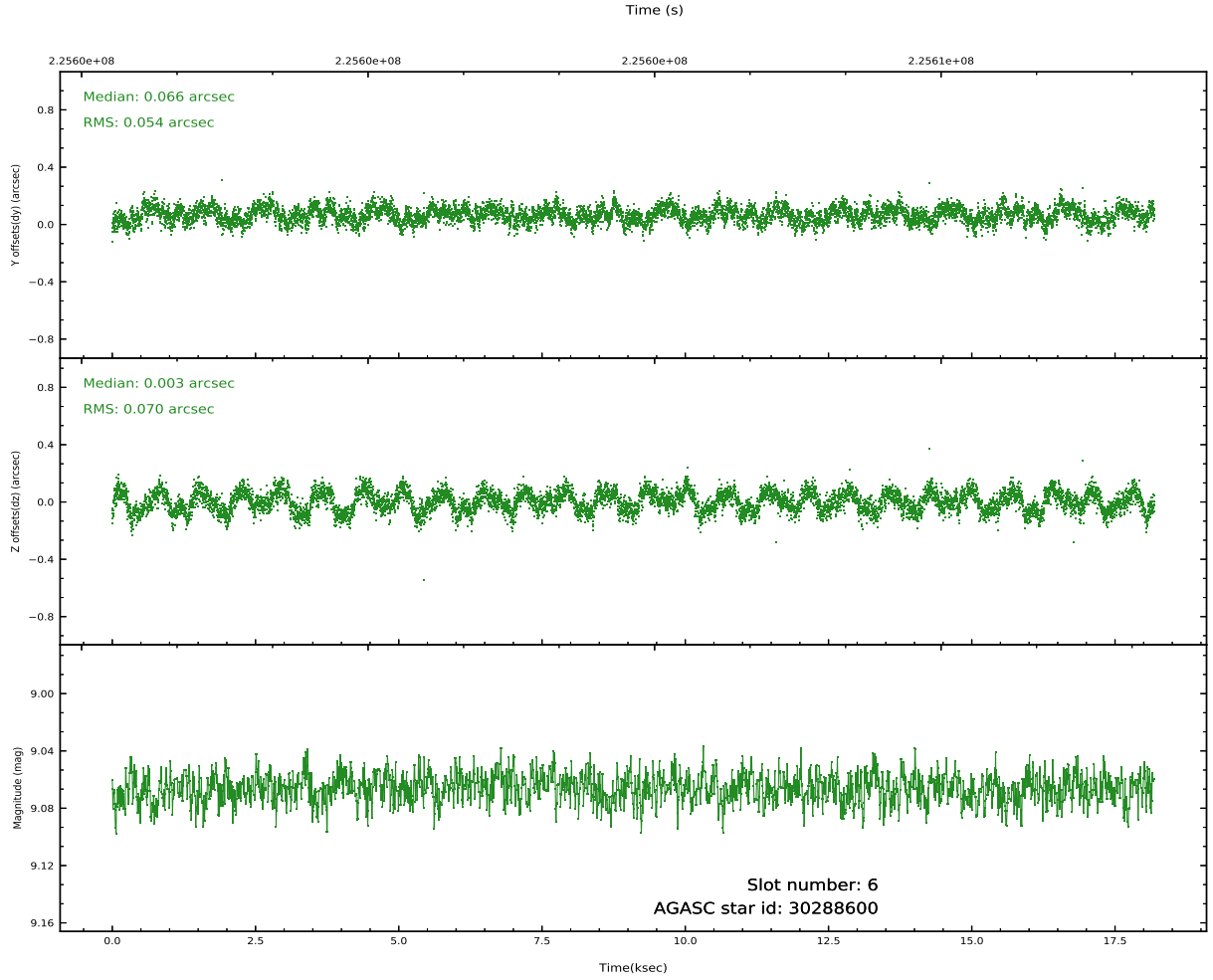
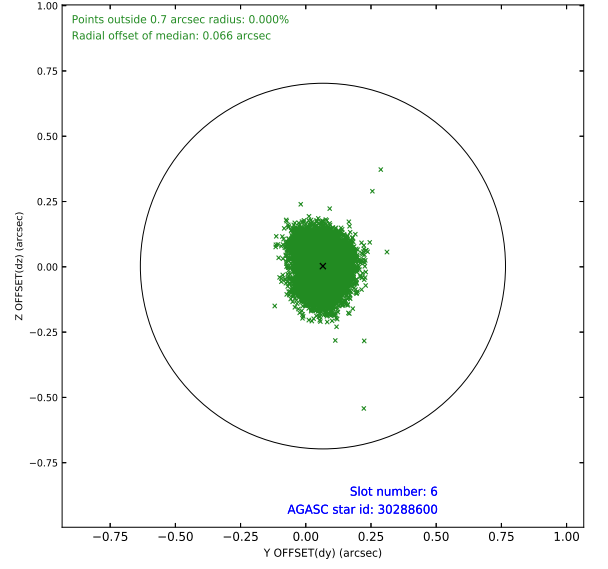
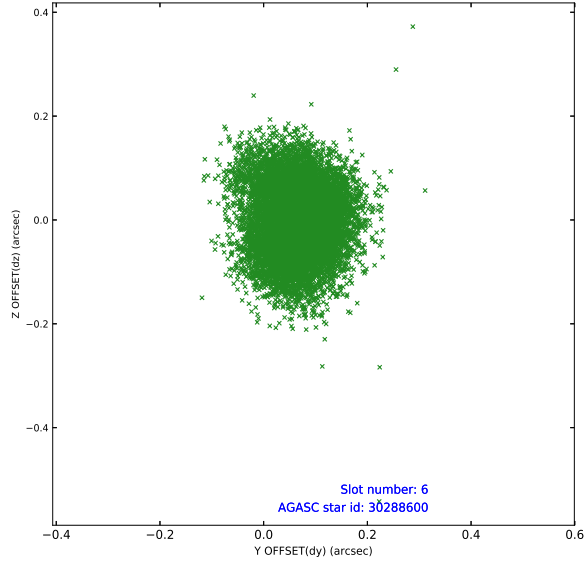
2.4.2 Slot 4



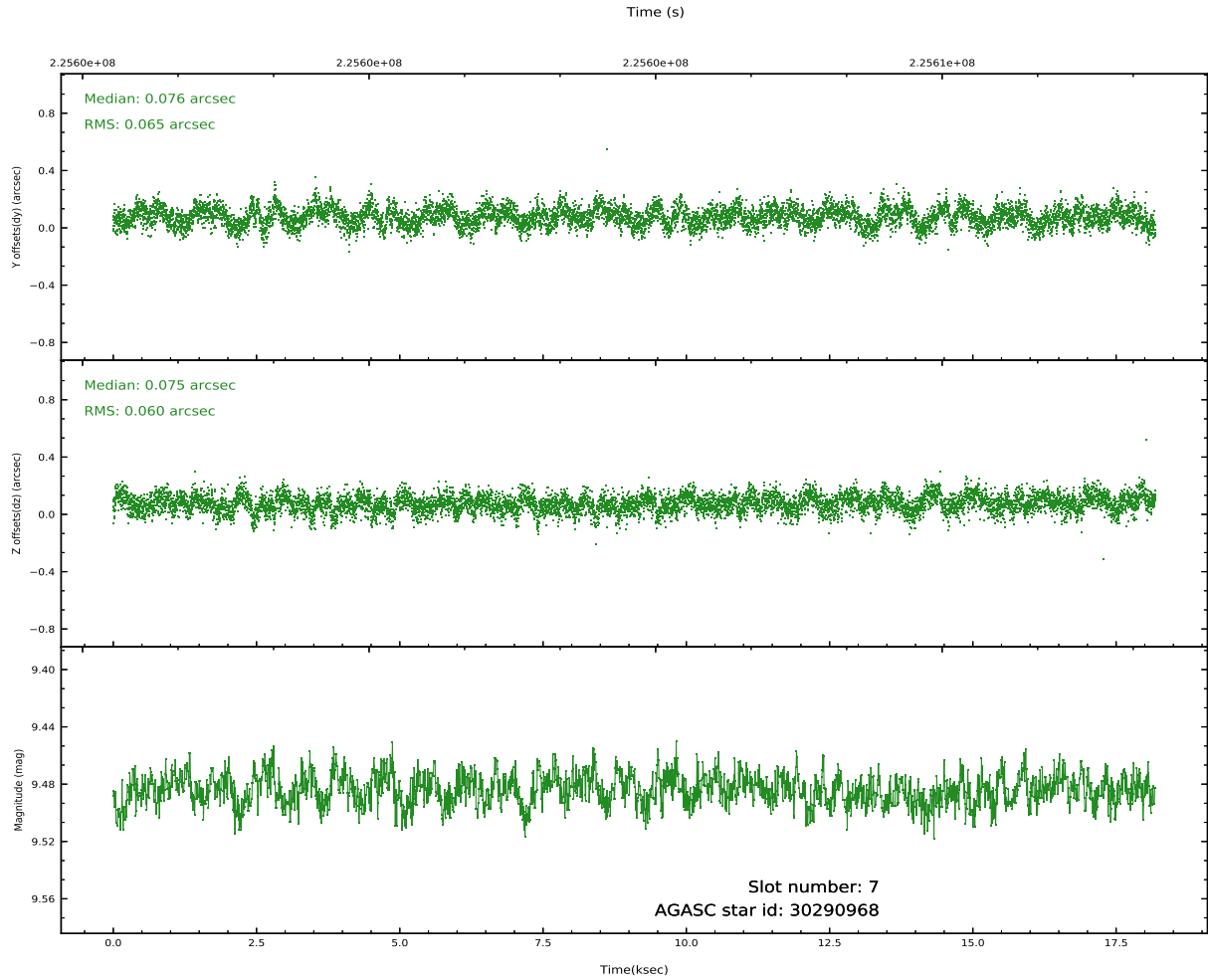
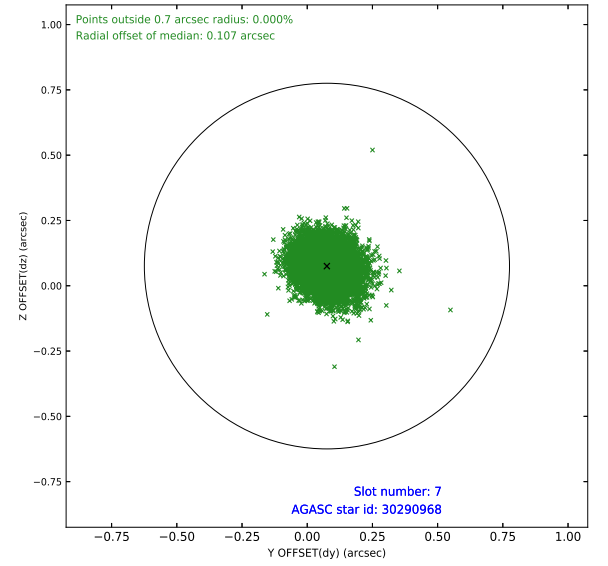
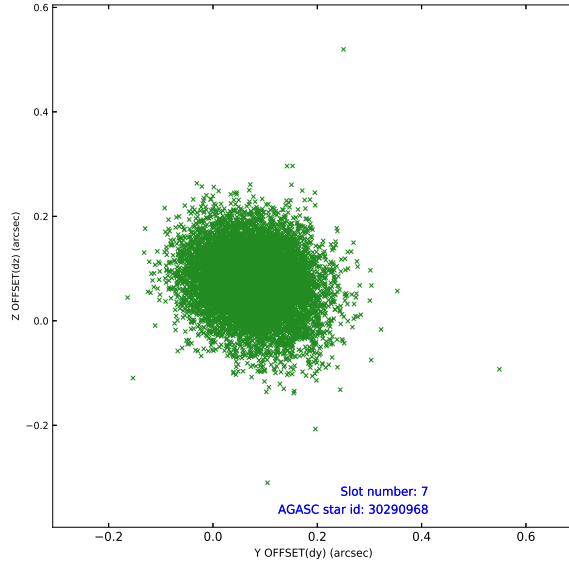
2.4.3 Slot 5



2.4.4 Slot 6

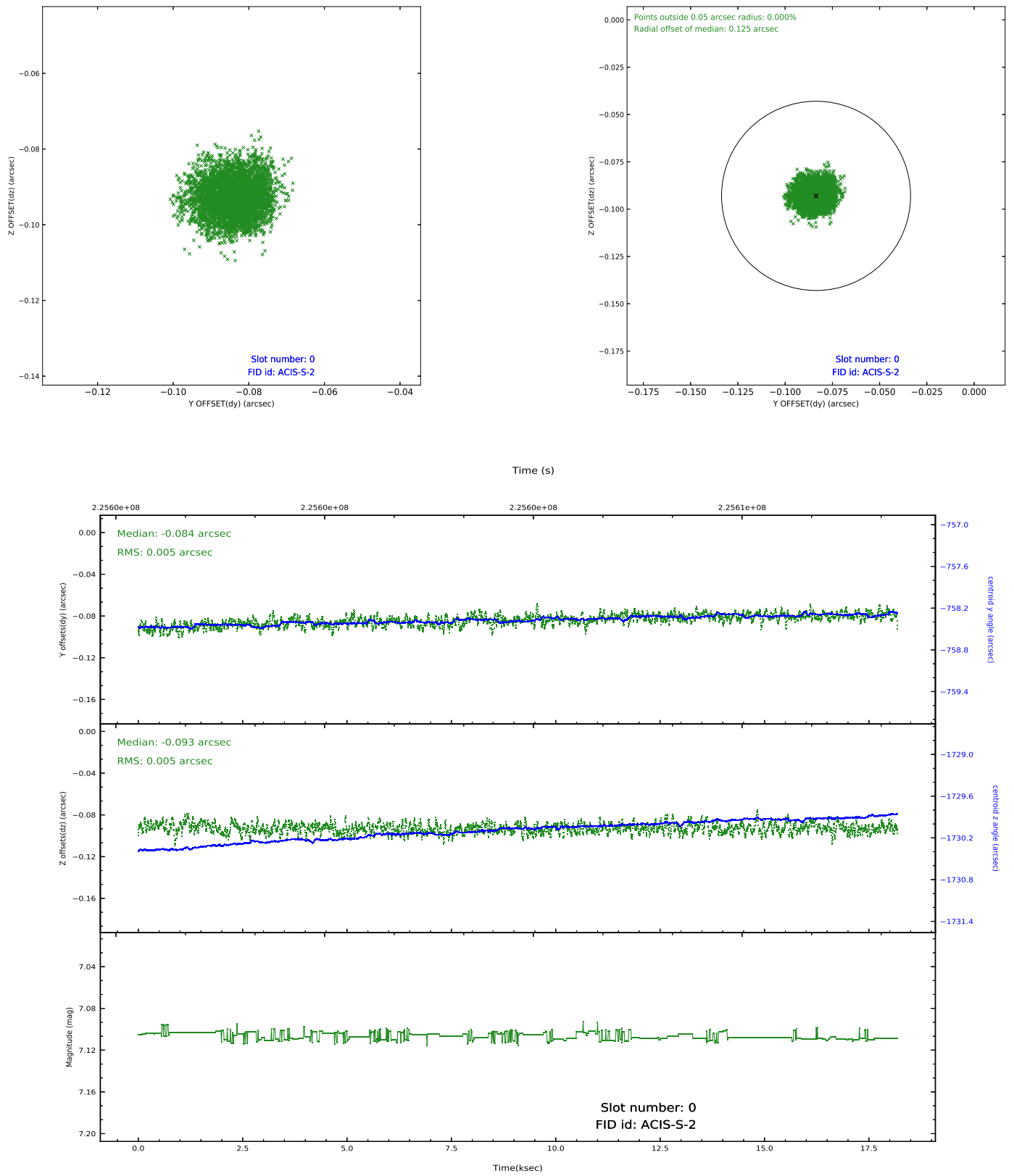


2.4.5 Slot 7

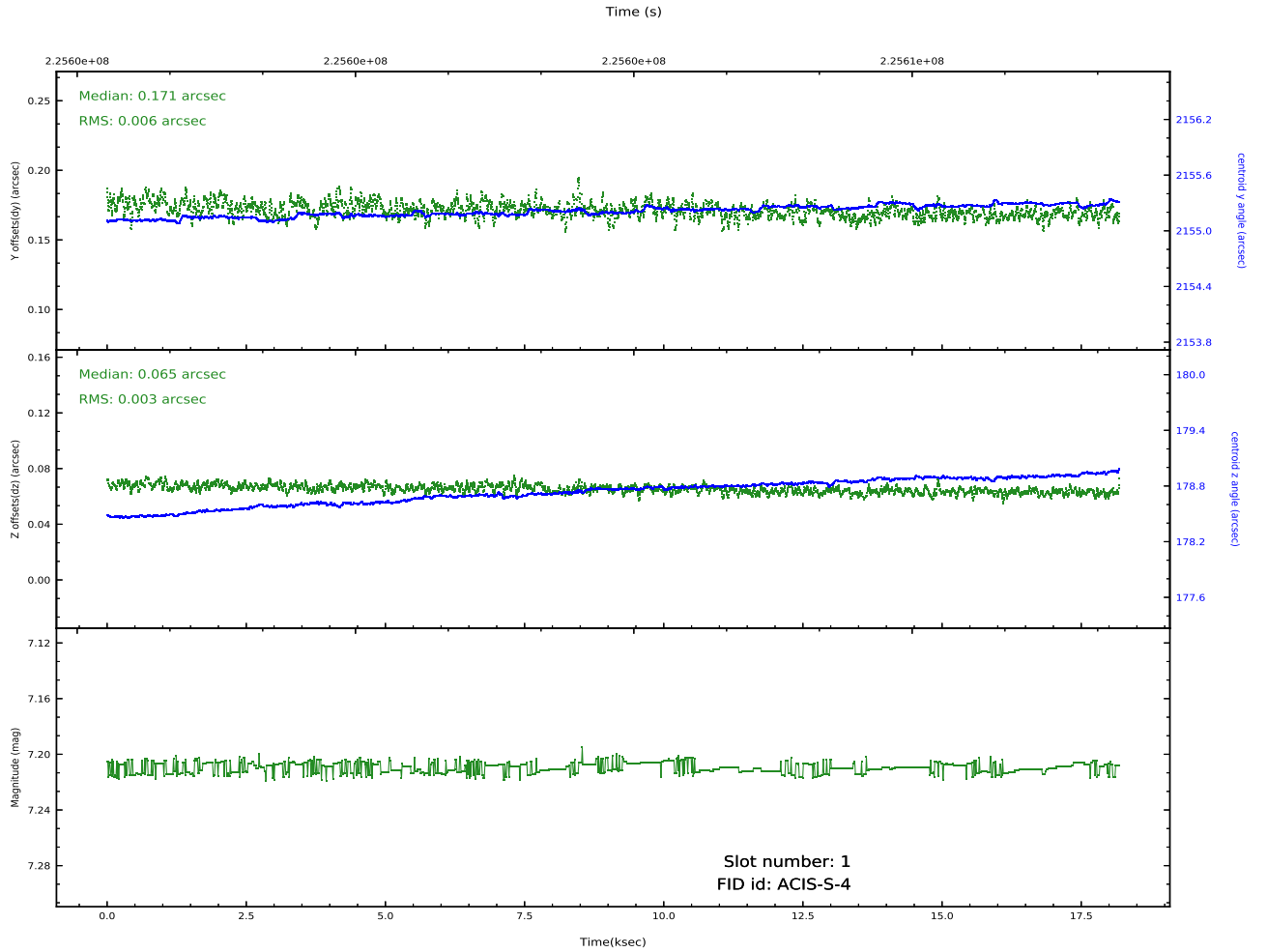
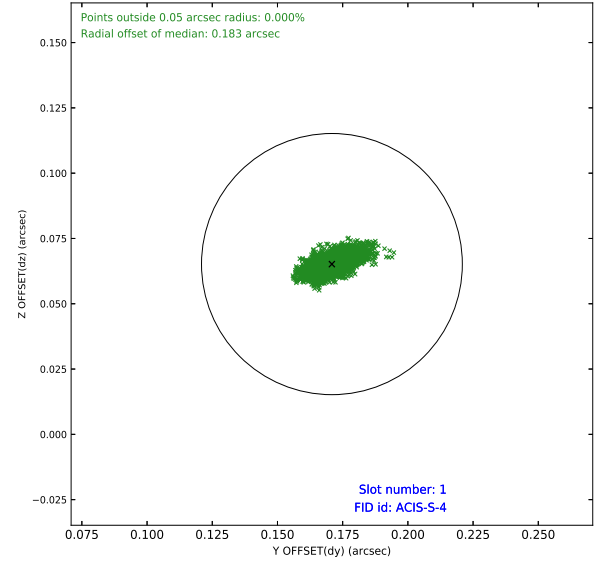
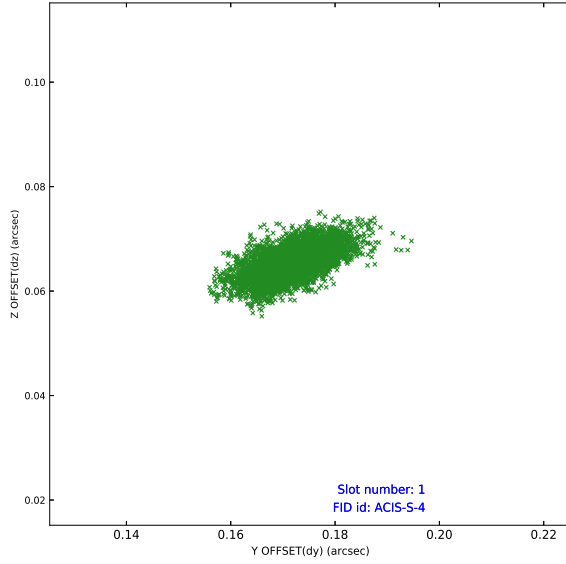


2.5 FID Slots

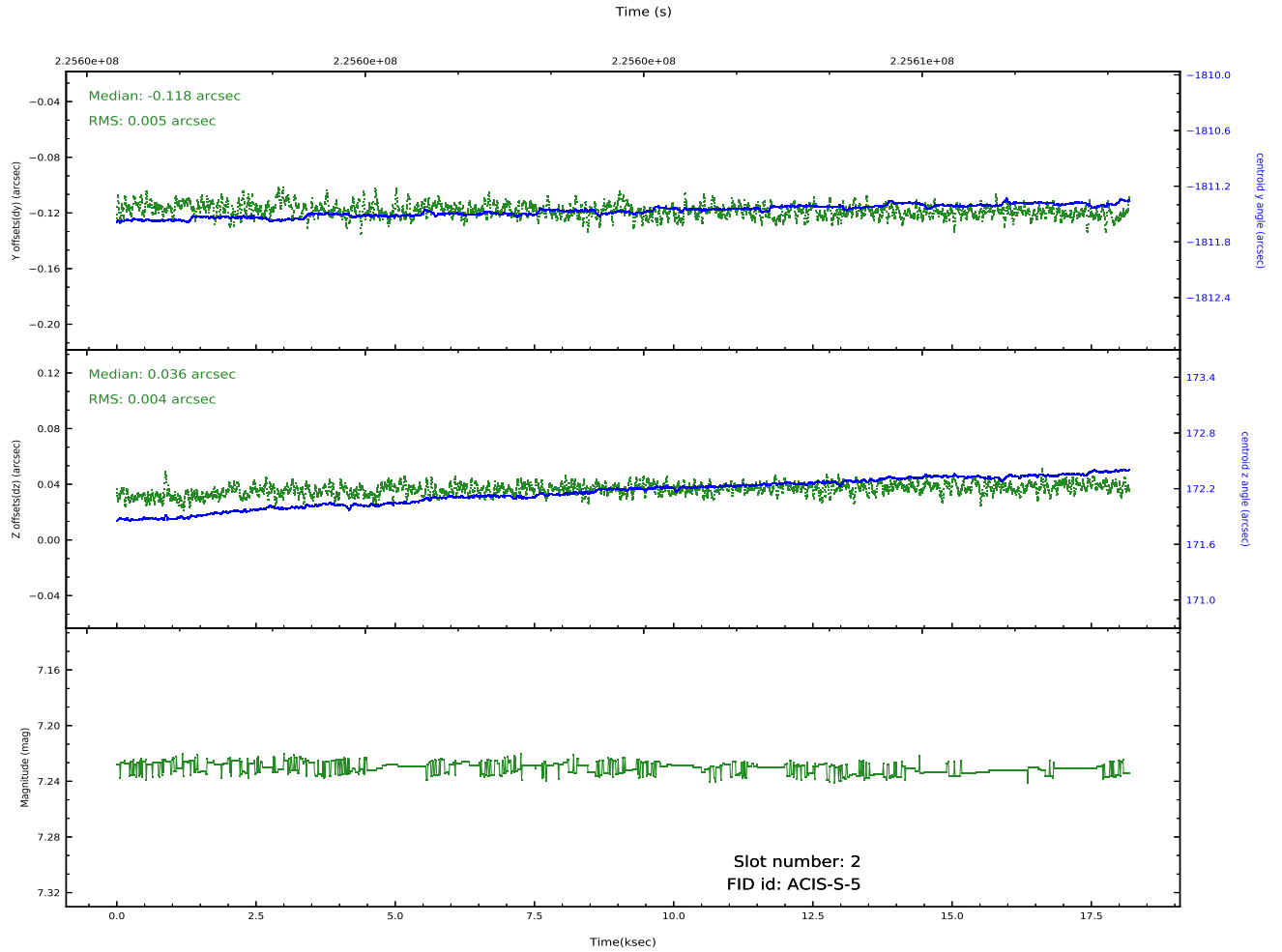
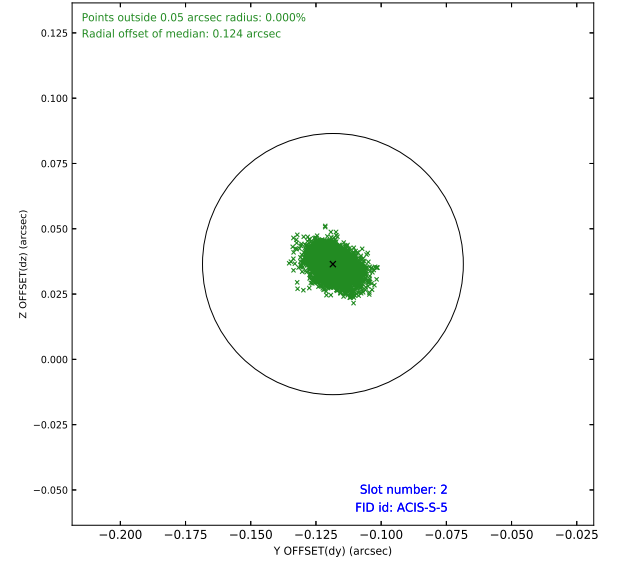
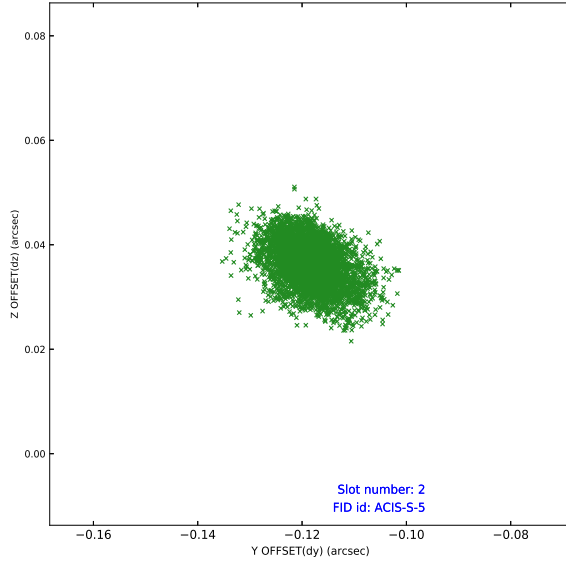
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.18149

A.2 Comments