

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5194 - L2 Version 4
Chandra X-Ray Center

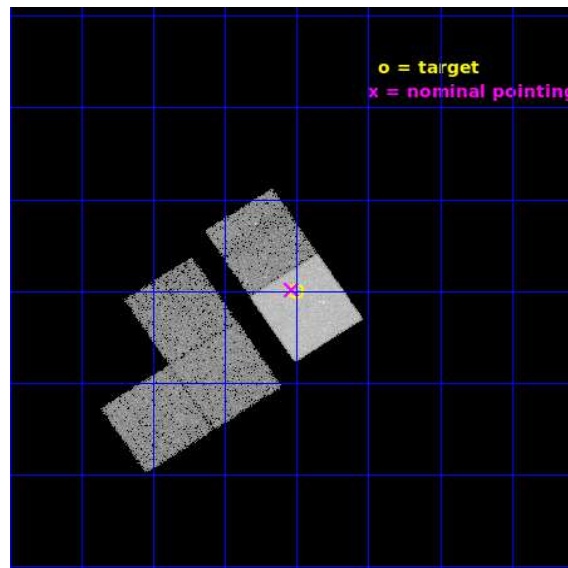
L2 Processing Date : Sep 21 2020

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1 Front

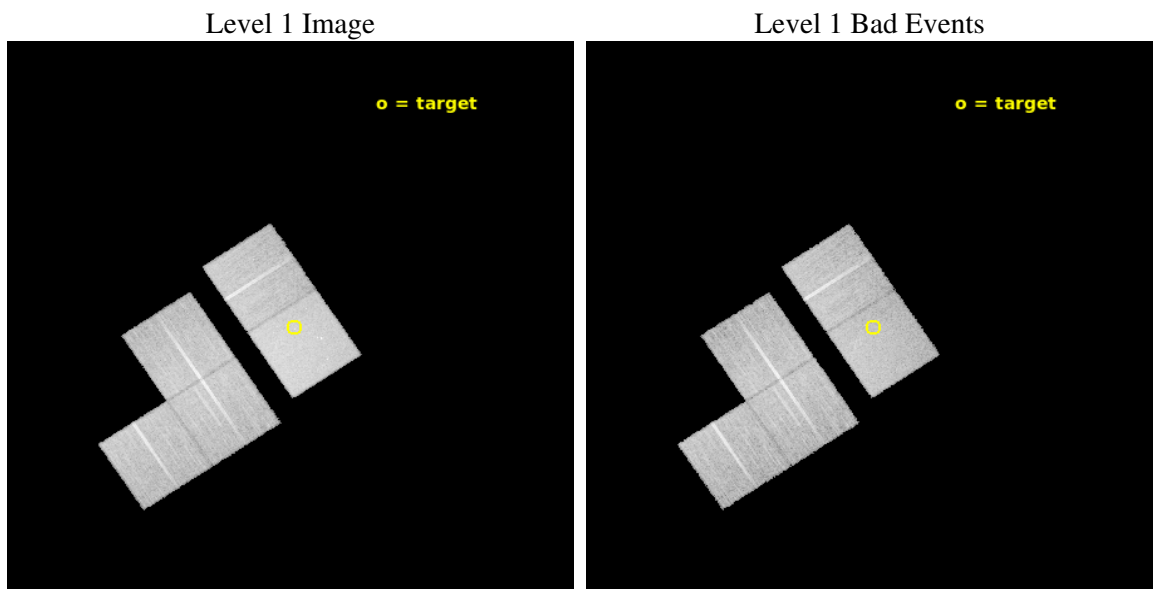
seq_num	701008	Sequence number
obs_id	5194	Observation id
title	Alternate - A STUDY OF QUASAR EVOLUTION WITH THE AID OF LENSING	Pr
observer	Gordon Garmire	Principal investigator
object	BRI0952-0115	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.750417	Observer's specified target RA [deg]
dec_targ	-1.501389	Observer's specified target Dec [deg]
ra_nom	148.7582438213	Nominal RA [deg]
dec_nom	-1.4972294976823	Nominal Dec [deg]
roll_nom	56.453283116047	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20106.599961311	Sum of GTIs [s]
livetime	19843.892430553	Livetime [s]
ontime1	20103.458981097	Sum of GTIs [s]
ontime2	20100.318000764	Sum of GTIs [s]
ontime3	20106.599961311	Sum of GTIs [s]
ontime6	20106.599961311	Sum of GTIs [s]
ontime7	20106.599961311	Sum of GTIs [s]
l2events	115451	Number of level 2 events



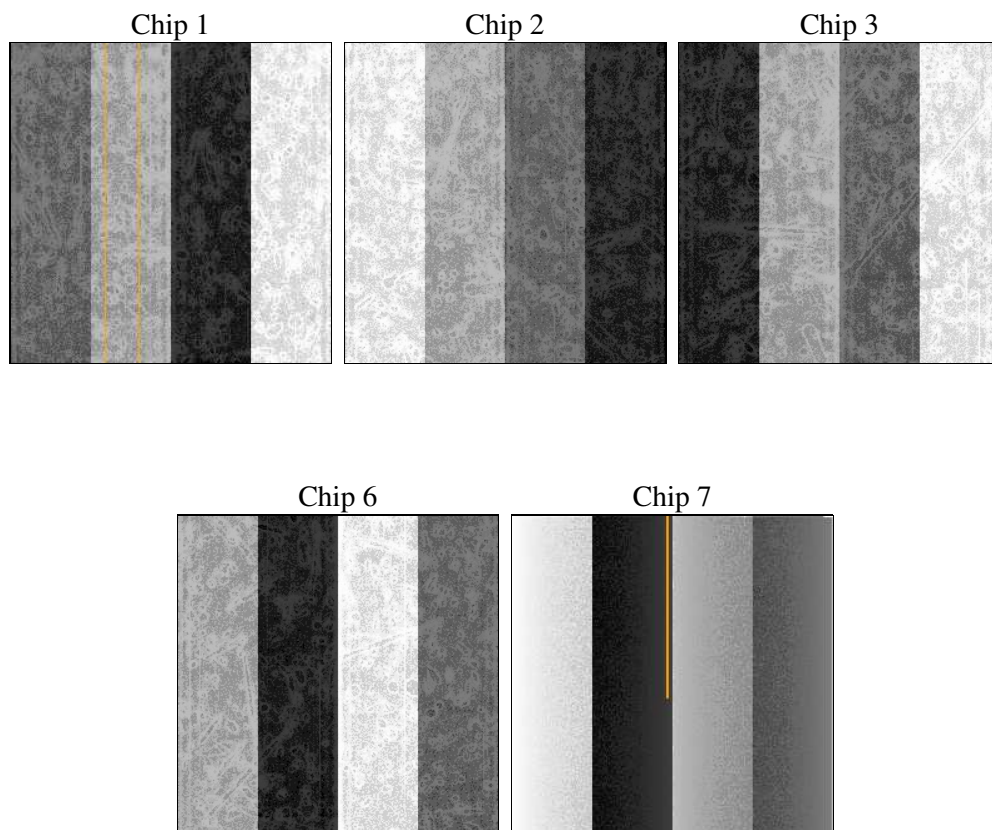
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20106.599961311	Sum of GTIs [s]
caldsver	4.9.2	 	ontime1	20103.458981097	Sum of GTIs [s]
date	2020-09-22T01:35:49	Date and time of file creation	ontime2	20100.318000764	Sum of GTIs [s]
revision	4	Processing version of data	ontime3	20106.599961311	Sum of GTIs [s]
			ontime6	20106.599961311	Sum of GTIs [s]
			ontime7	20106.599961311	Sum of GTIs [s]
			l1events	619073	Number of level 1 events

2.1.4 Events

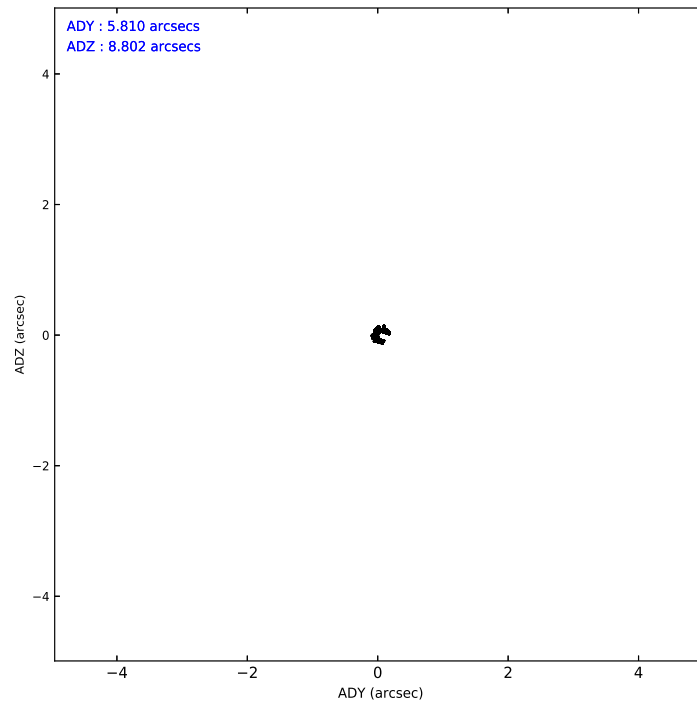
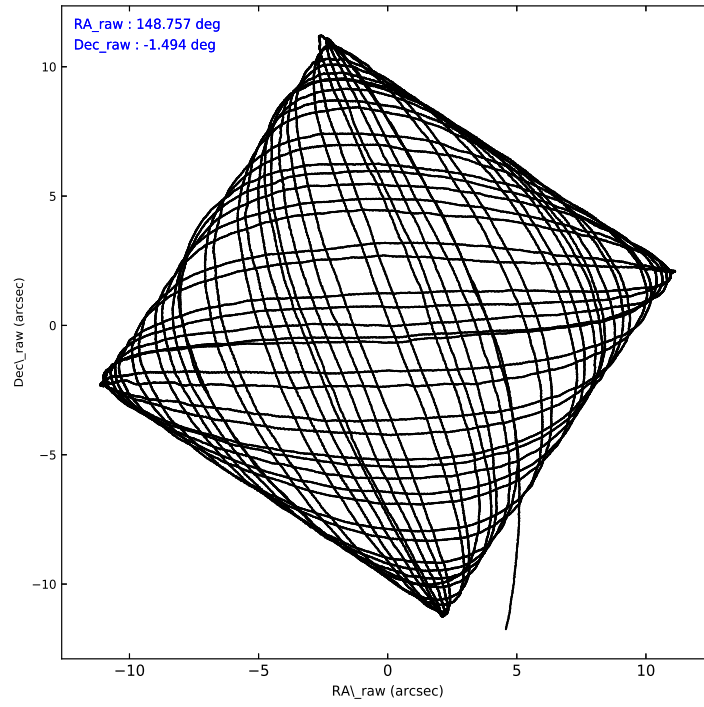
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	108122	114574	114662	119369	162346
rejected events	92790	100615	100586	104480	95432
rejected %	85%	87%	87%	87%	58%

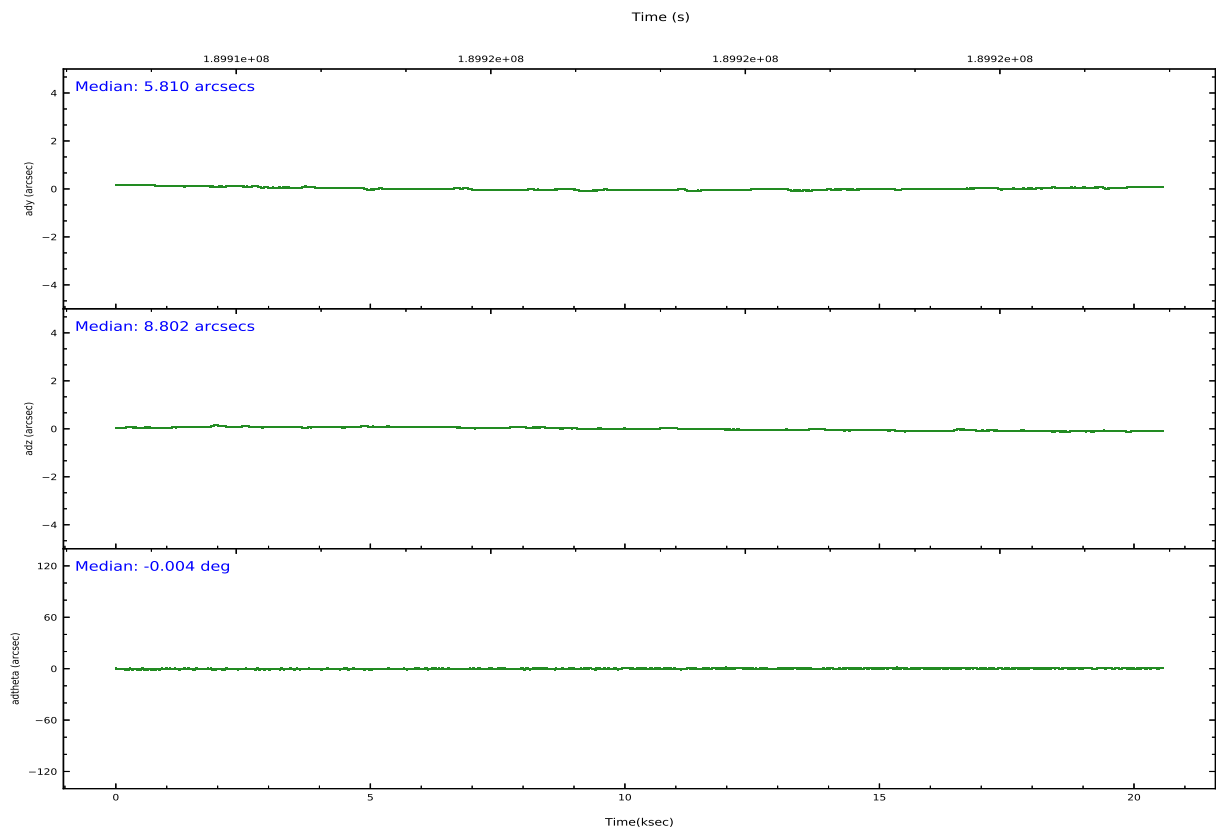
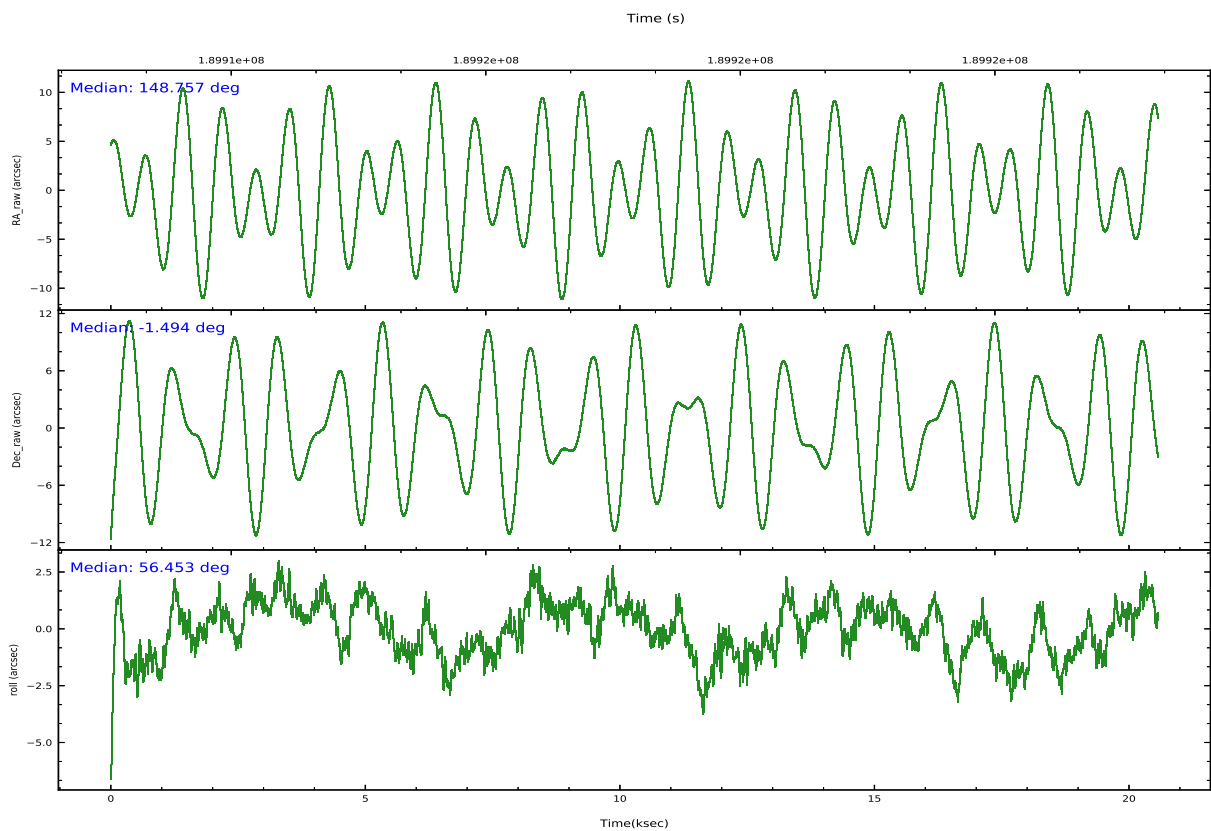
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	6060	6315	6018	6004	6125
	5%	5%	5%	5%	3%
grade 1 events	49	63	67	52	169
	0%	0%	0%	0%	0%
grade 2 events	3313	2694	2739	3081	13321
	3%	2%	2%	2%	8%
grade 3 events	1471	1378	1428	1399	5890
	1%	1%	1%	1%	3%
grade 4 events	1469	1319	1366	1347	5940
	1%	1%	1%	1%	3%
grade 5 events	4999	4598	5429	5509	15285
	4%	4%	4%	4%	9%
grade 6 events	3023	2256	2527	3060	35650
	2%	1%	2%	2%	21%
grade 7 events	87738	95951	95088	98917	79966
	81%	83%	82%	82%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-12367	ACIS-12367	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	148.755778	148.7582438213	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.521595	-1.4972294976823	Alternating exposures requested	N	N
[deg] Pointing Roll	56.297088	56.453283116047	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	189908206.184000	189907050.78676			
Observation start date	2004-01-08T00:15:42	2004-01-07T23:57:30			
[s] Observation end time (MET)	189928206.184000	189928755.67521			
Observation end date	2004-01-08T05:49:02	2004-01-08T05:59:15			
Read mode	TIMED	TIMED			

2.3 Aspect



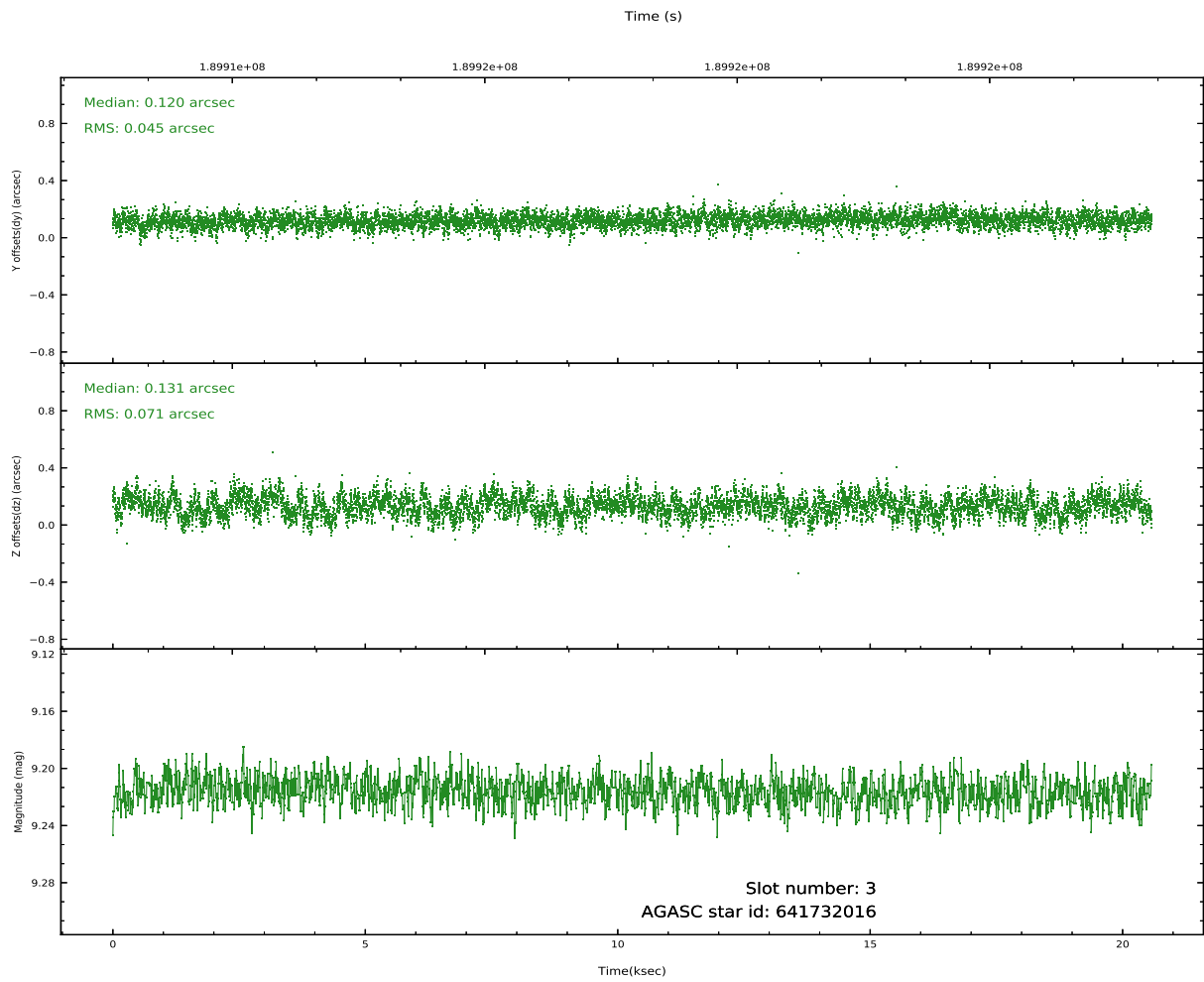
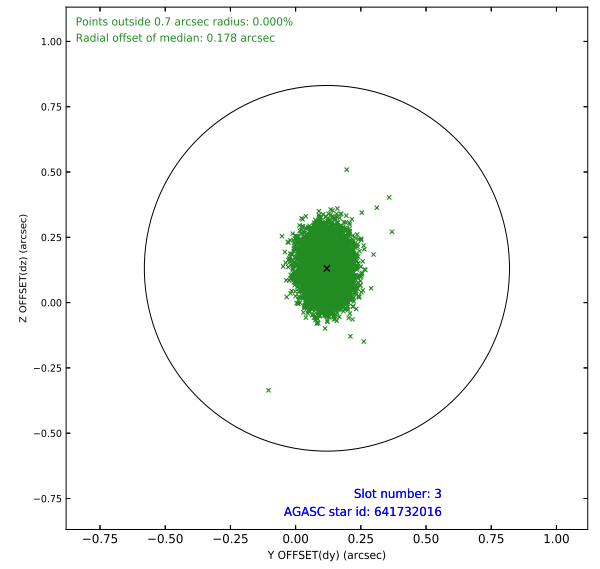
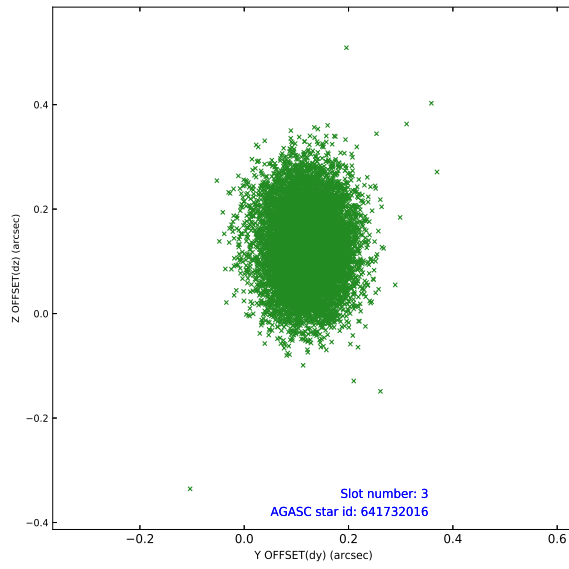


Slot Statistics

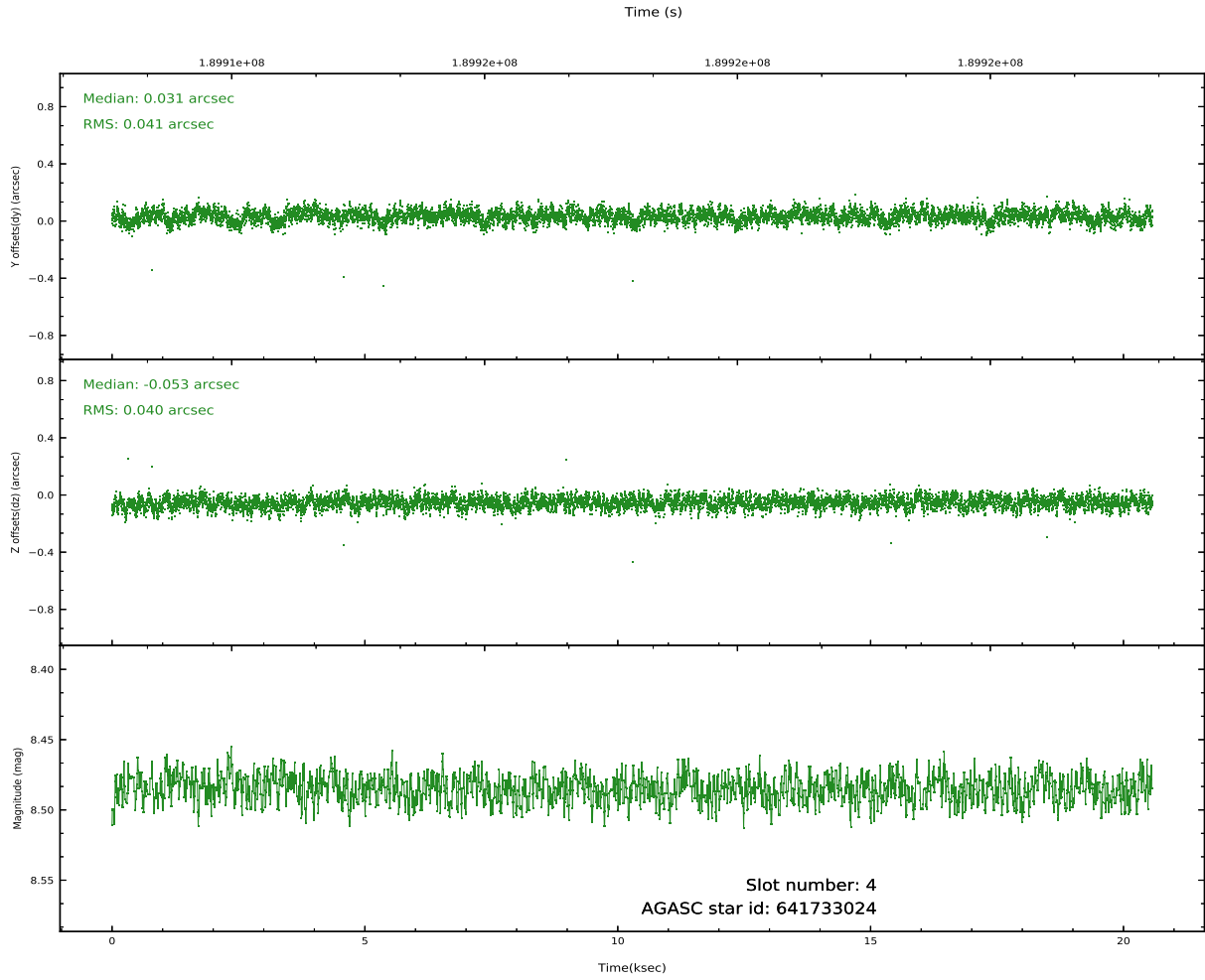
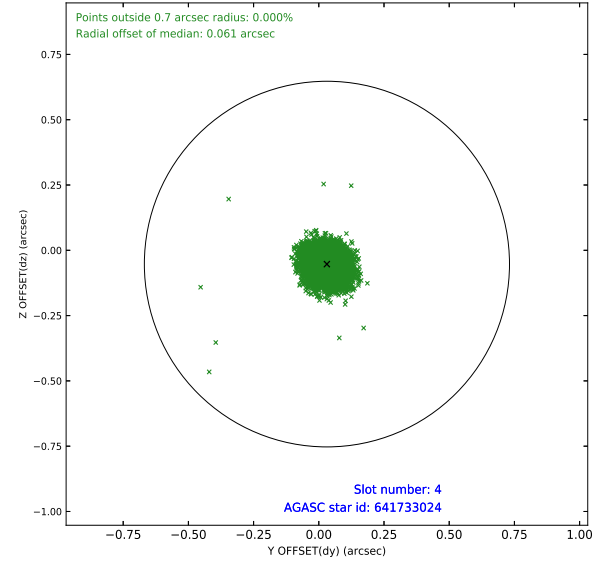
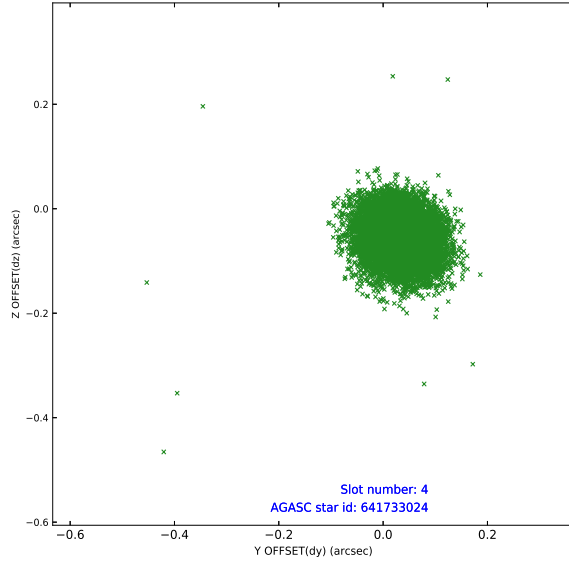
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	5018	1.000	-0.070	-0.076	0.007	0.011	0.000000	0.000000	-758.60	-1730
1	FID		ACIS-S-4	7.21	5018	1.000	0.136	0.054	0.006	0.011	0.000000	0.000000	2154.79	178
2	FID		ACIS-S-5	7.22	5018	1.000	-0.097	0.031	0.007	0.011	0.000000	0.000000	-1811.26	172
3	GUIDE	used	641732016	9.22	10031	1.000	0.120	0.131	0.090	0.146	148.984132	-2.287670	-1838.11	-2213
4	GUIDE	used	641733024	8.48	10029	1.000	0.031	-0.053	0.060	0.096	148.386168	-1.615768	-1020.11	918
5	GUIDE	used	641733576	7.82	10037	1.000	-0.071	-0.126	0.050	0.079	148.896458	-1.126306	1464.75	368
6	GUIDE	used	641735688	8.68	10035	1.000	-0.039	-0.039	0.067	0.111	148.626995	-1.270763	494.34	886
7	GUIDE	used	641736744	9.06	10023	1.000	-0.040	0.090	0.091	0.150	149.277606	-1.343973	1574.18	-1207

2.4 Star Slots

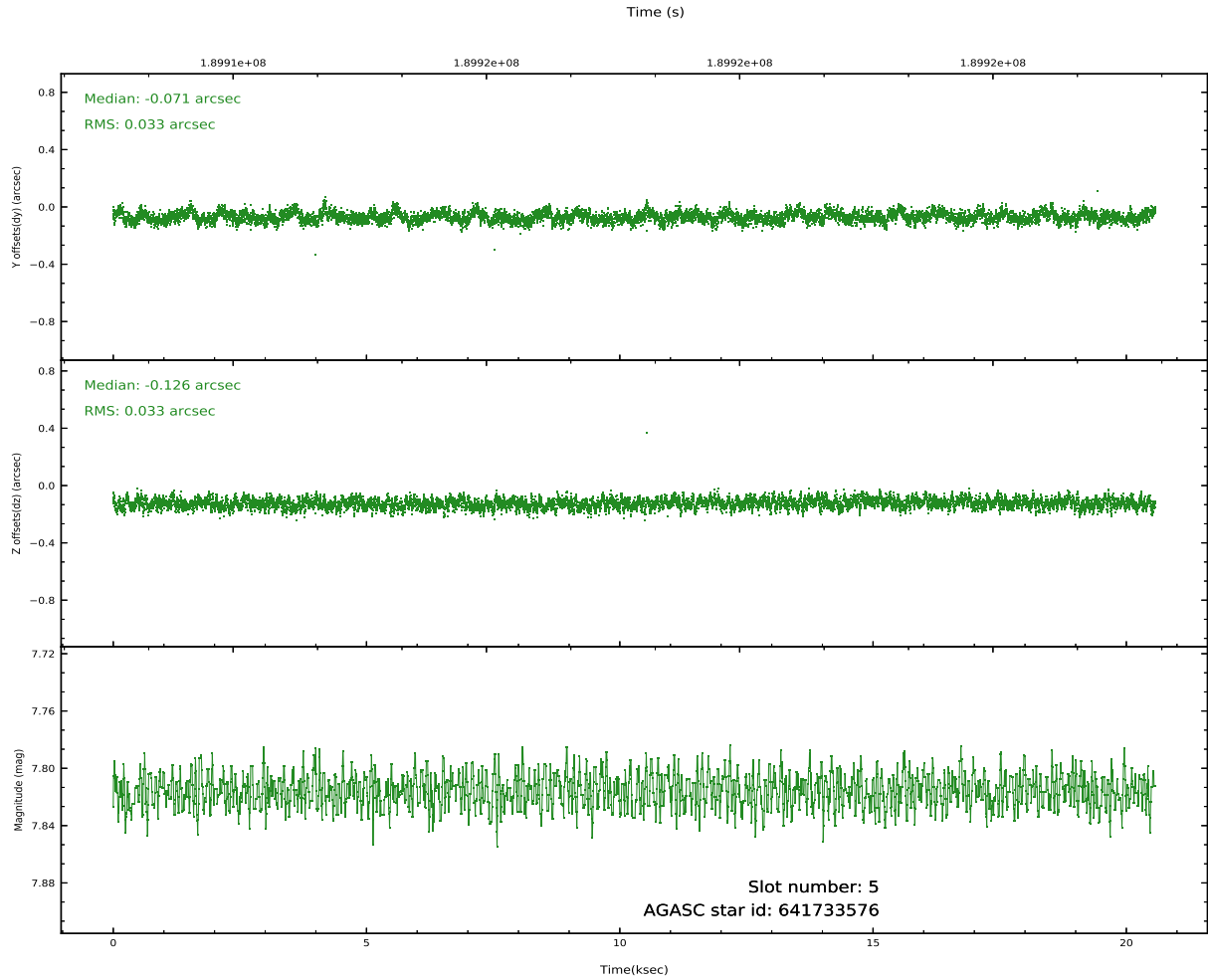
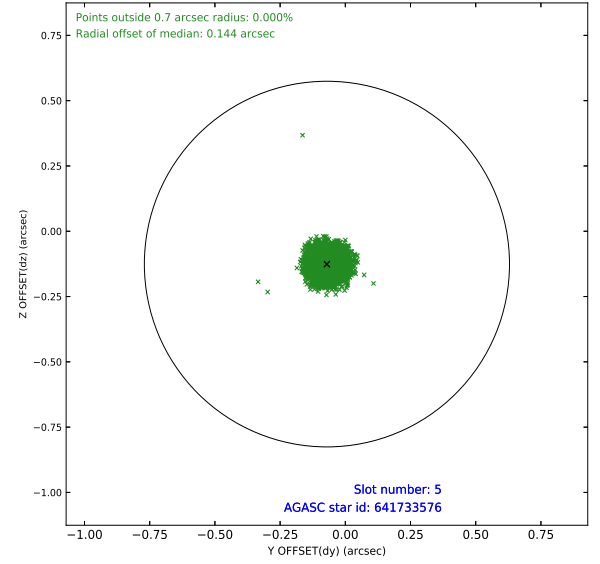
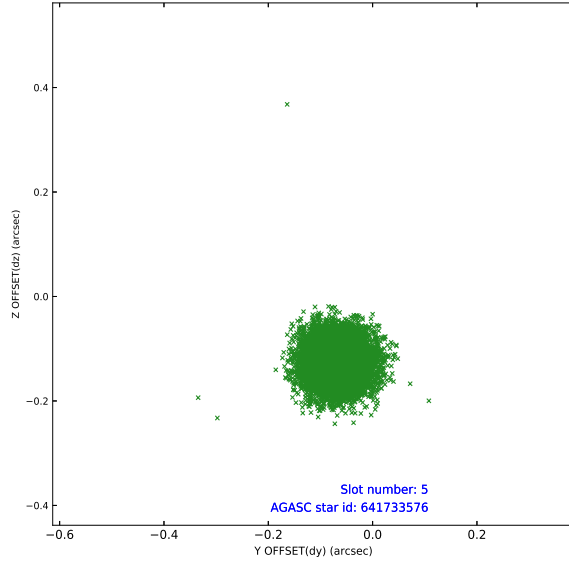
2.4.1 Slot 3



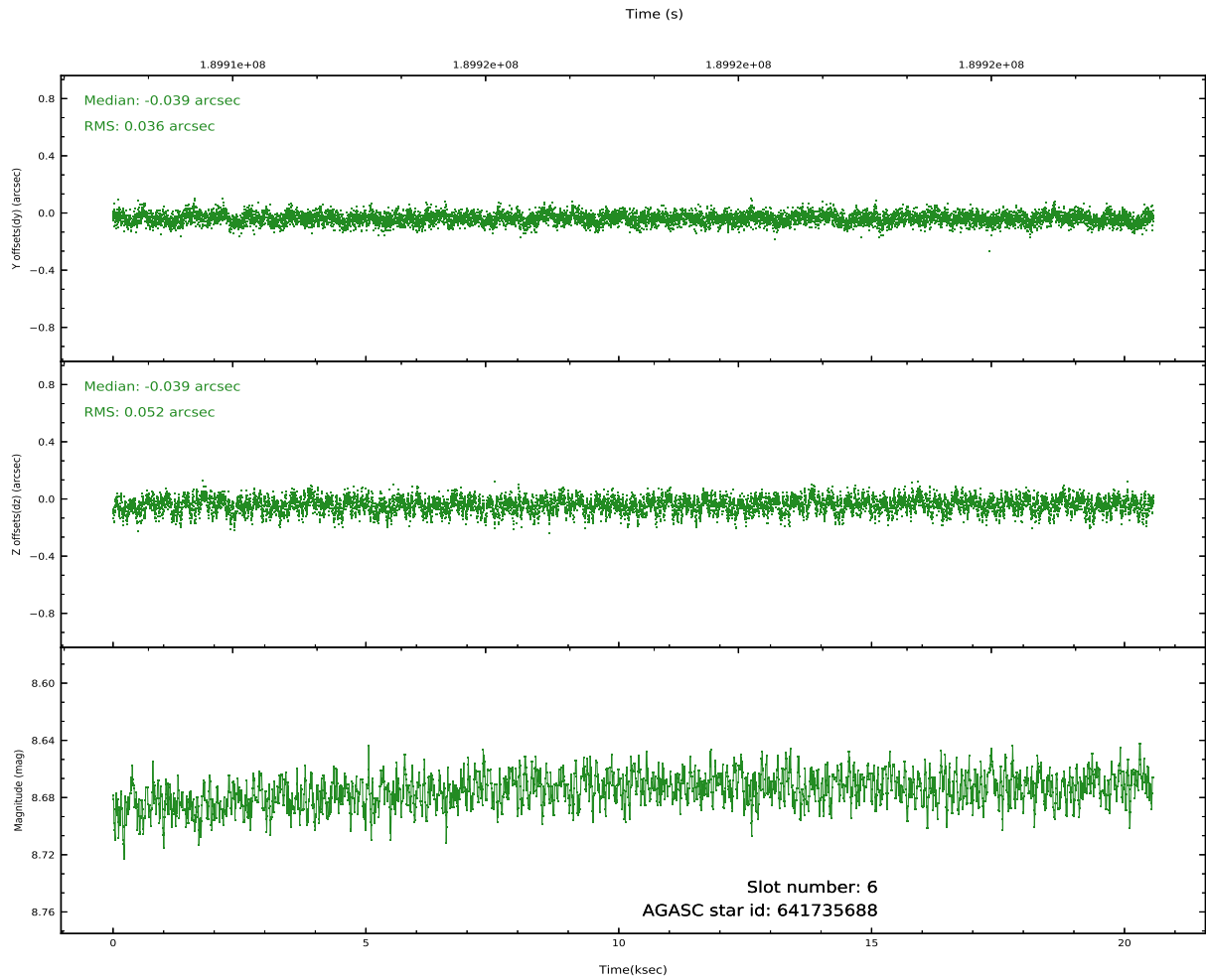
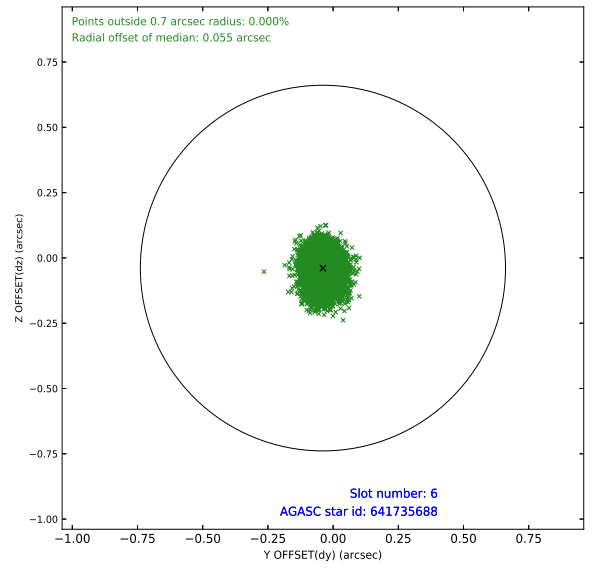
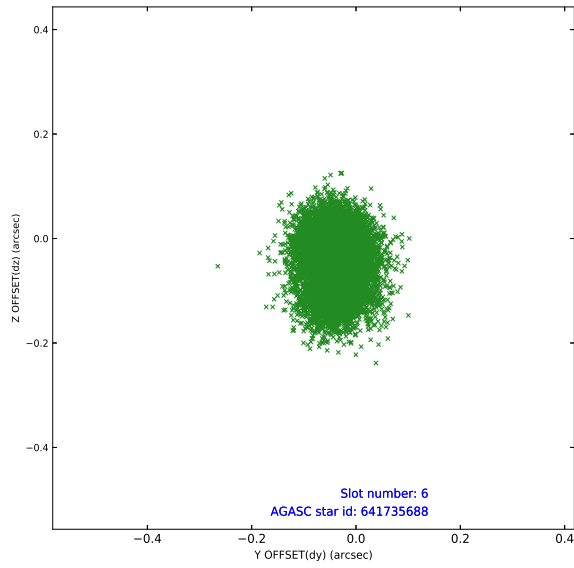
2.4.2 Slot 4



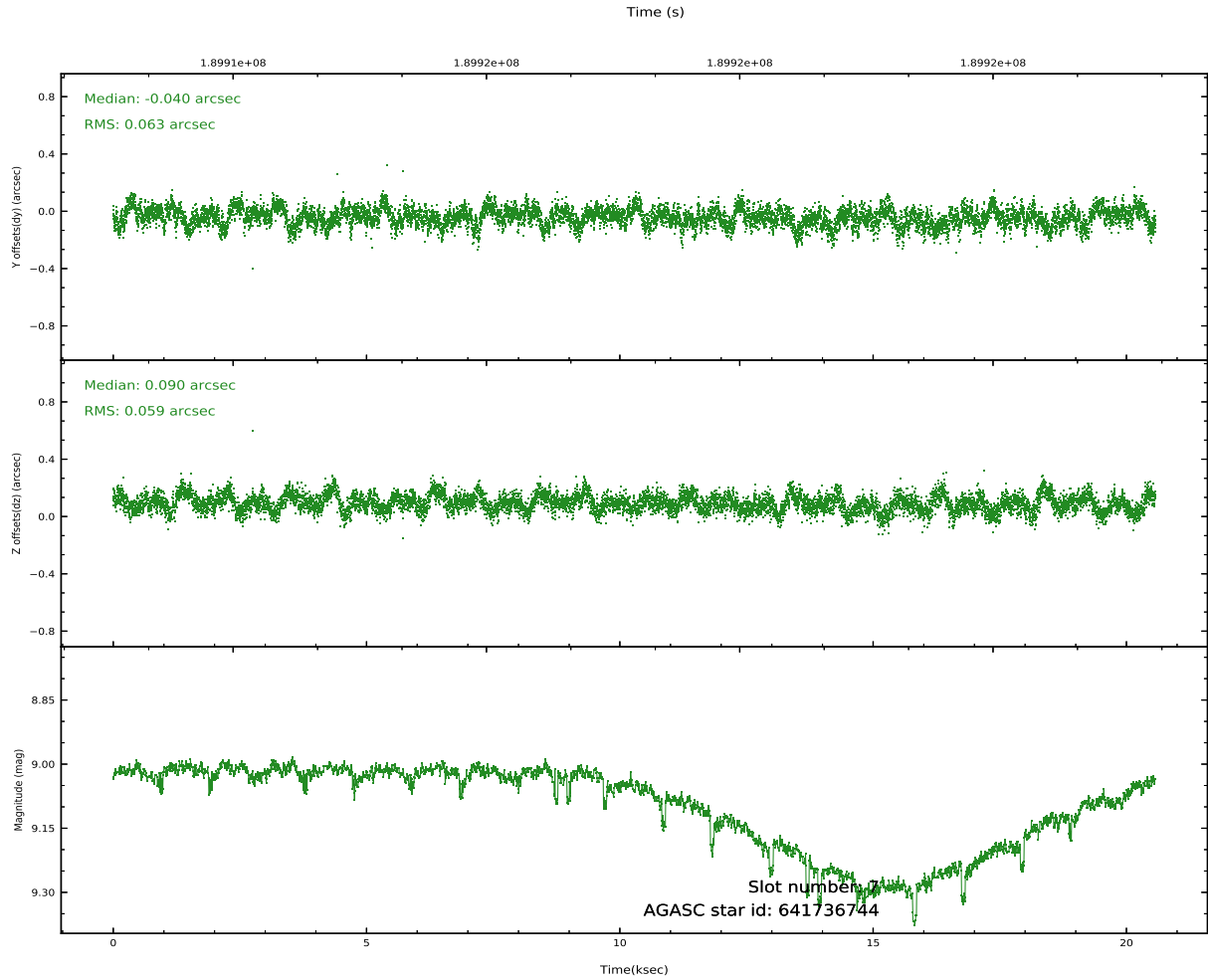
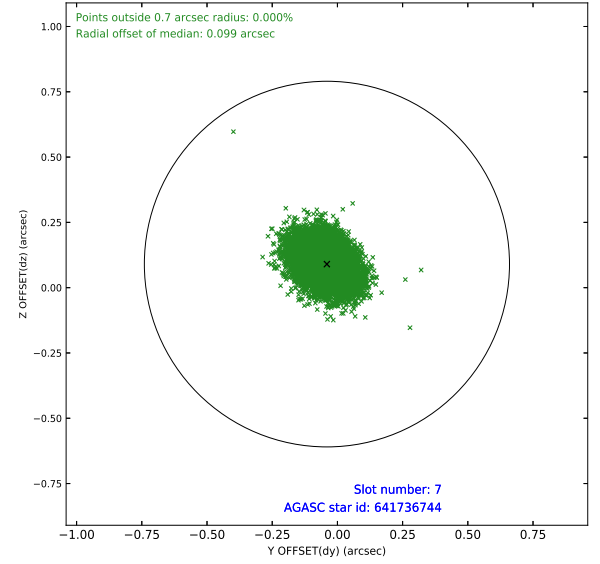
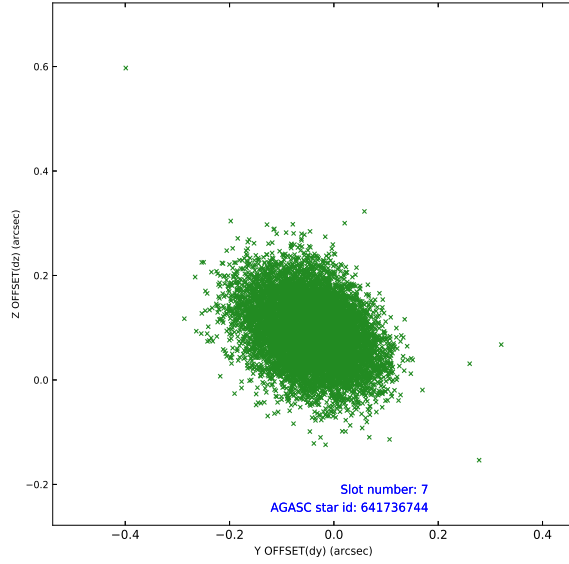
2.4.3 Slot 5



2.4.4 Slot 6

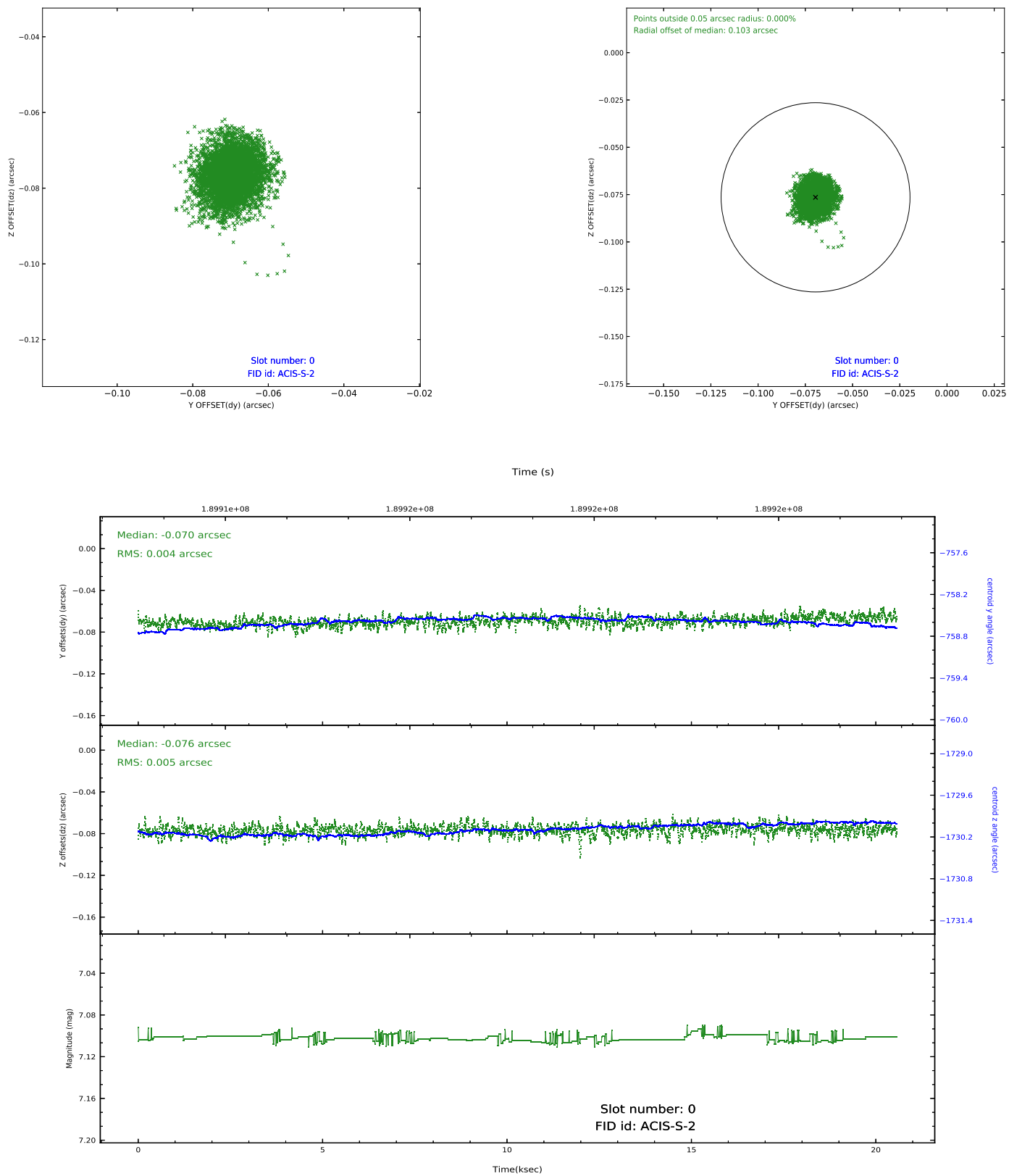


2.4.5 Slot 7

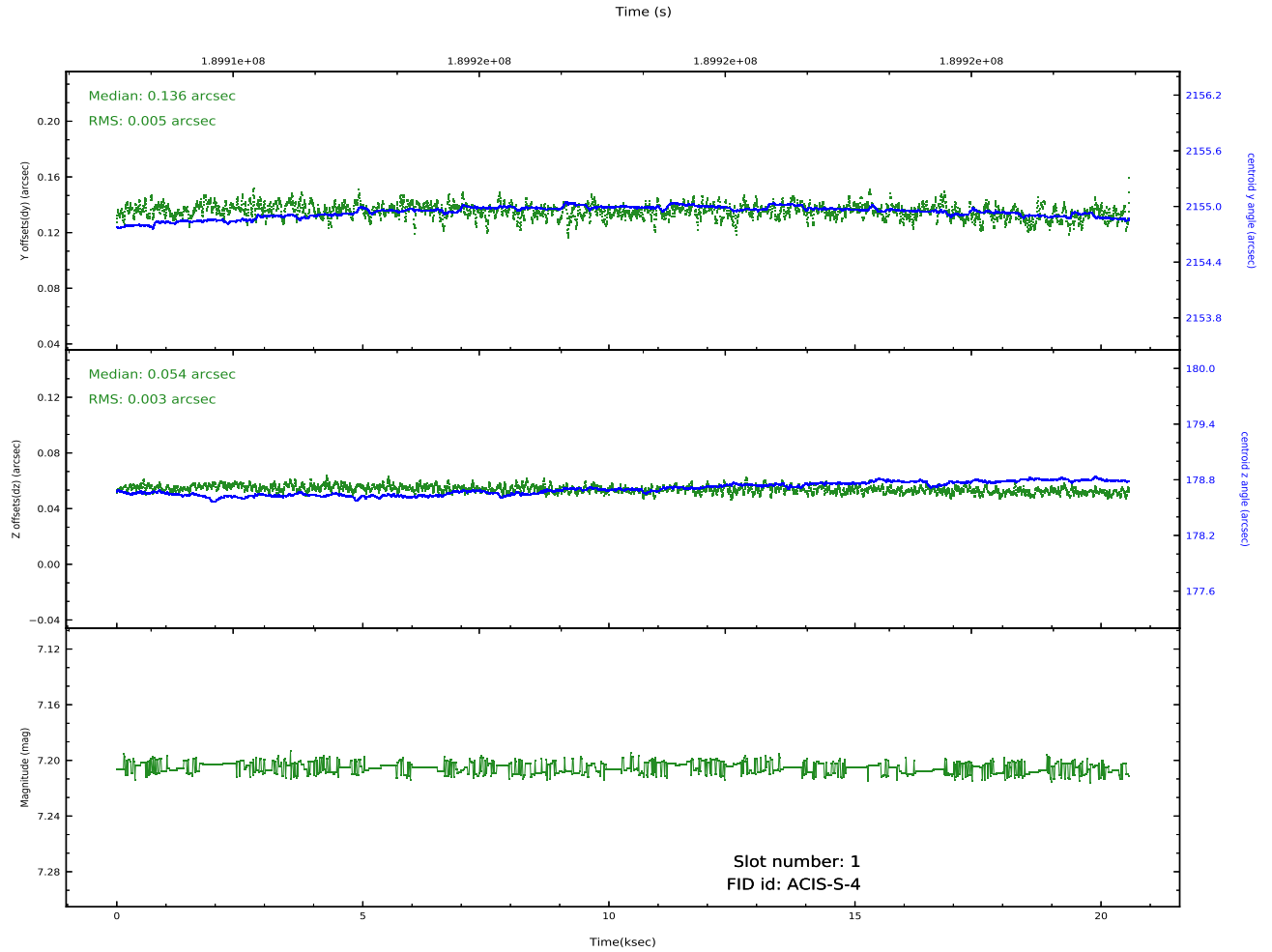
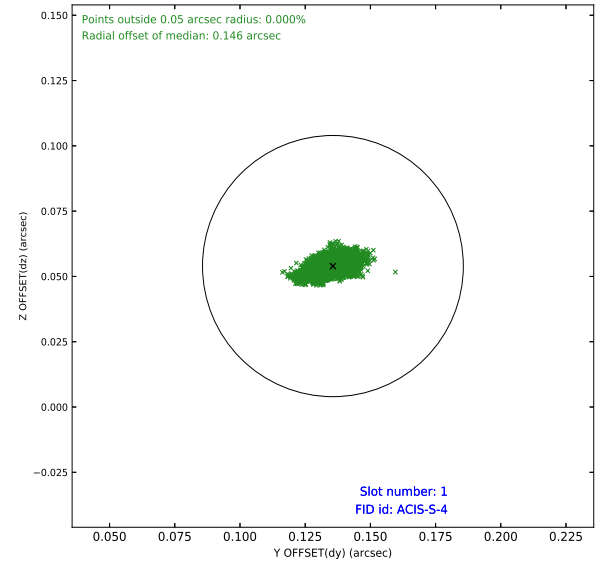
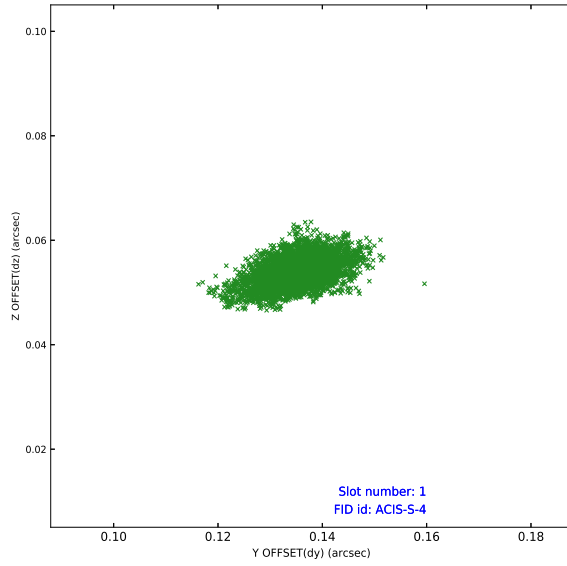


2.5 FID Slots

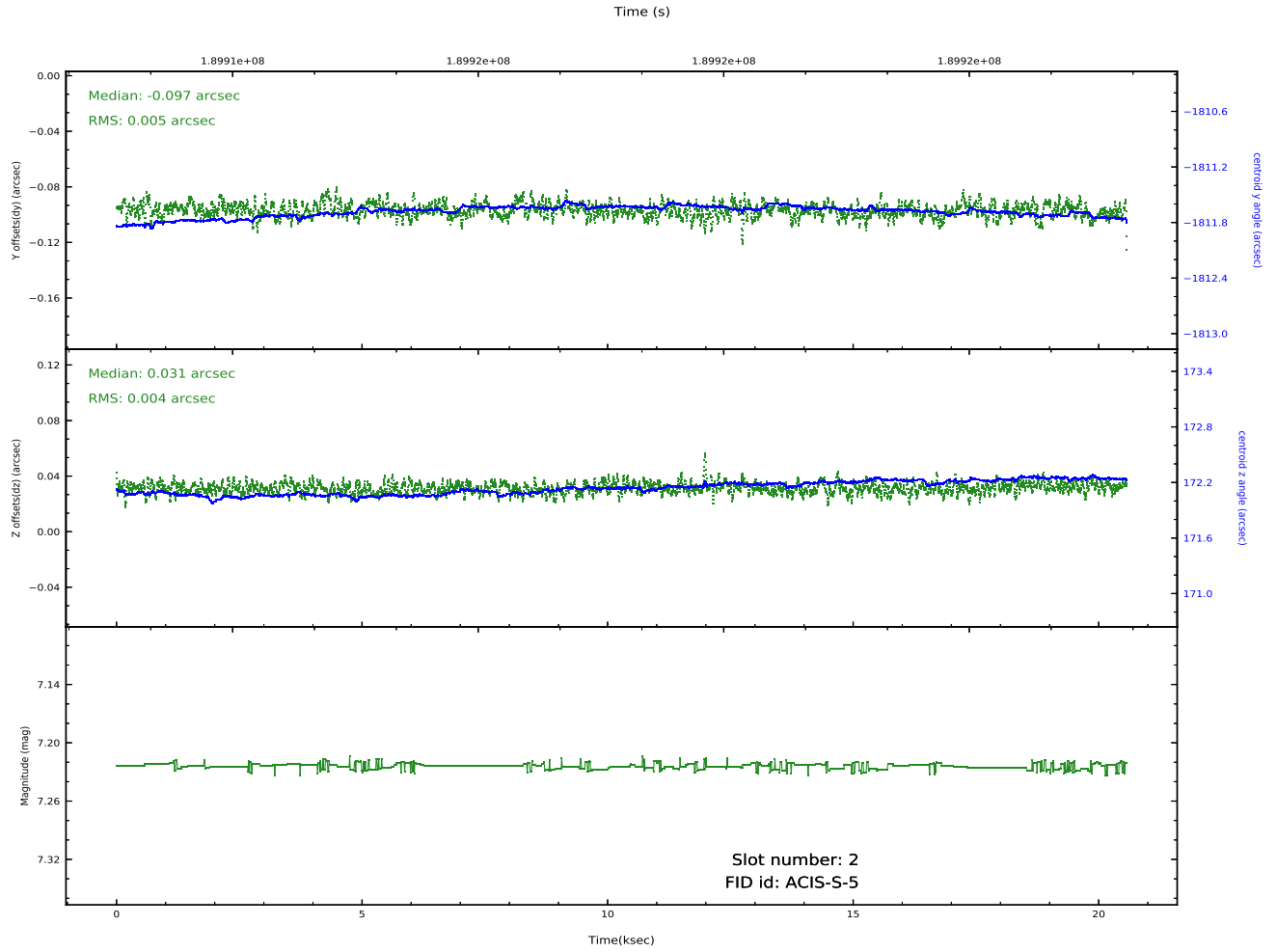
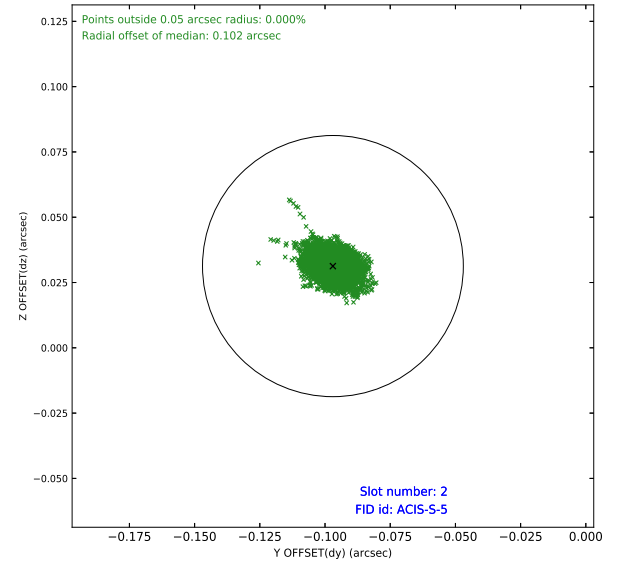
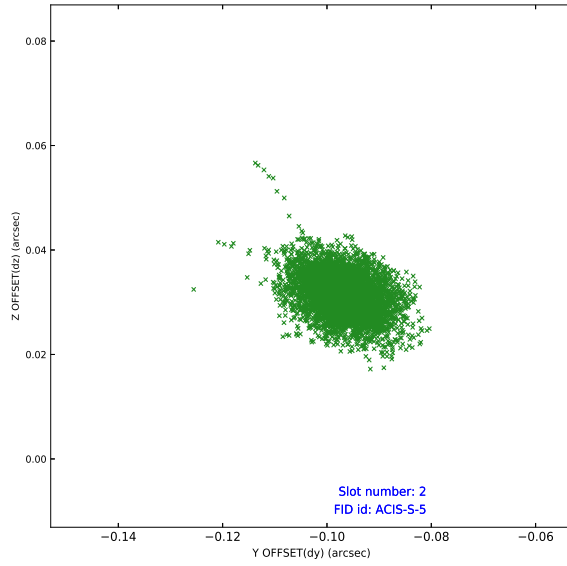
2.5.1 Slot 0



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)	2020.09.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.109

A.2 Comments