

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19602 - L2 Version 2
Chandra X-Ray Center

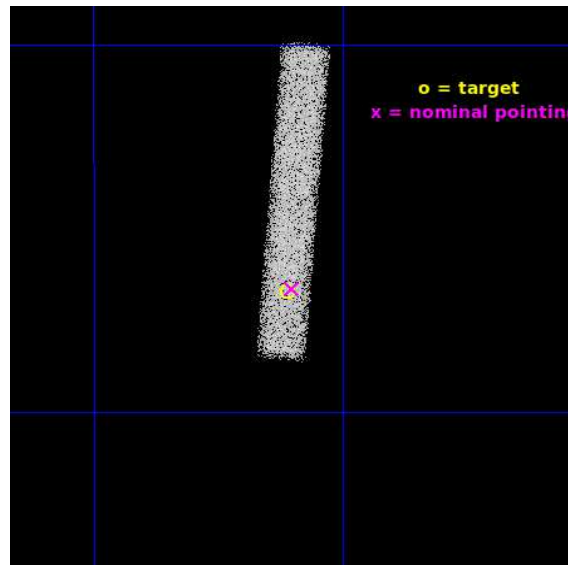
L2 Processing Date : Oct 26 2020

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1 Front

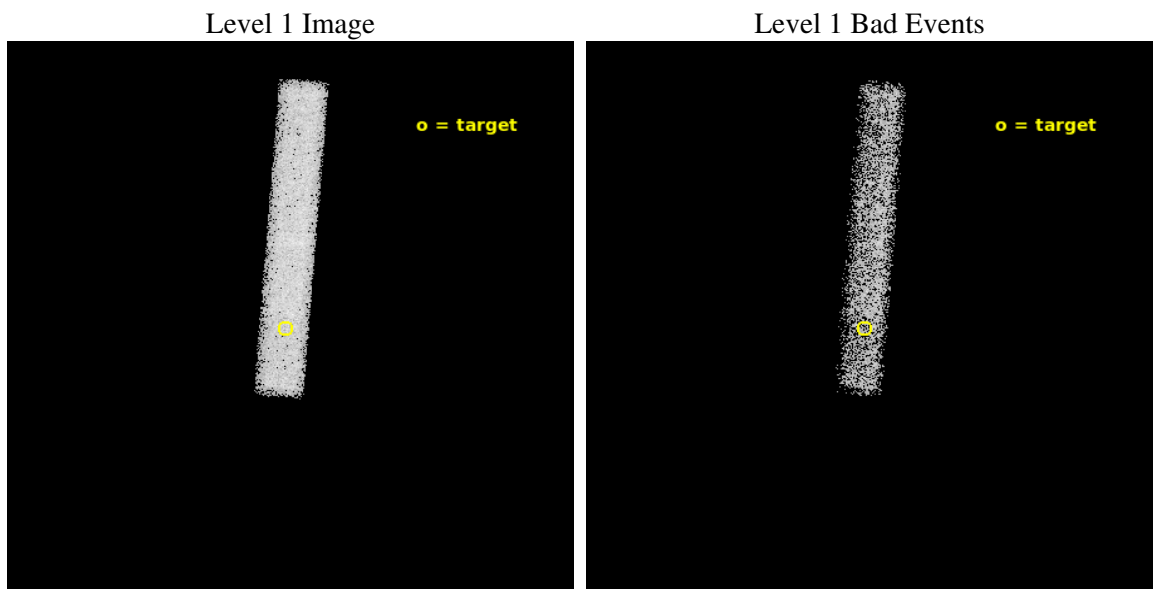
seq_num	401879	Sequence number
obs_id	19602	Observation id
title	Crust cooling of accretion-heated neutron stars	Proposal title
observer	Rudy Wijnands	Principal investigator
object	MXB 1659-298	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.52725	Observer's specified target RA [deg]
dec_targ	-29.945581	Observer's specified target Dec [deg]
ra_nom	255.52531526145	Nominal RA [deg]
dec_nom	-29.944121140111	Nominal Dec [deg]
roll_nom	274.41102590211	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32069.198088408	Sum of GTIs [s]
livetime	29085.069915117	Livetime [s]
ontime7	32069.198088408	Sum of GTIs [s]
l2events	20184	Number of level 2 events



2 OBI

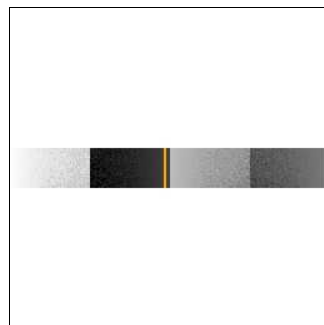
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	32069.198088408	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	32069.198088408	Sum of GTIs [s]
date	2020-10-26T19:37:55	Date and time of file creation	l1events	42446	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

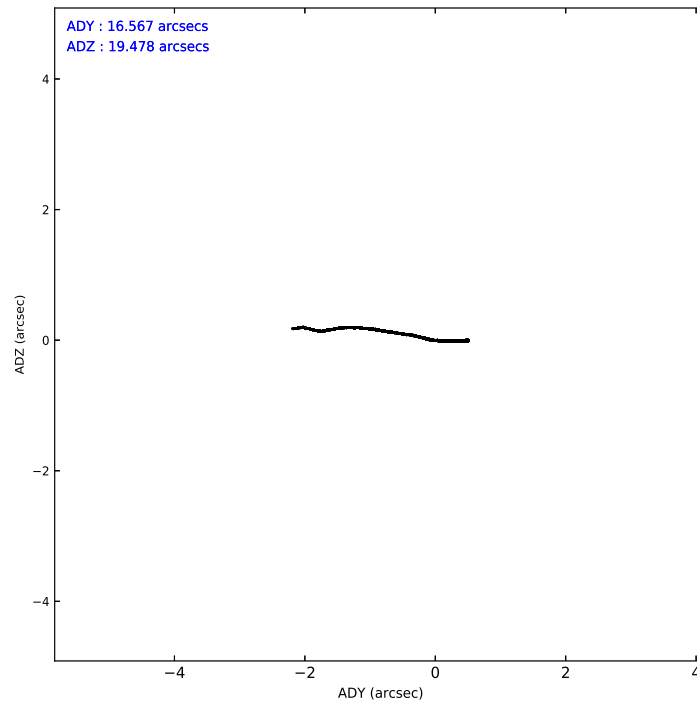
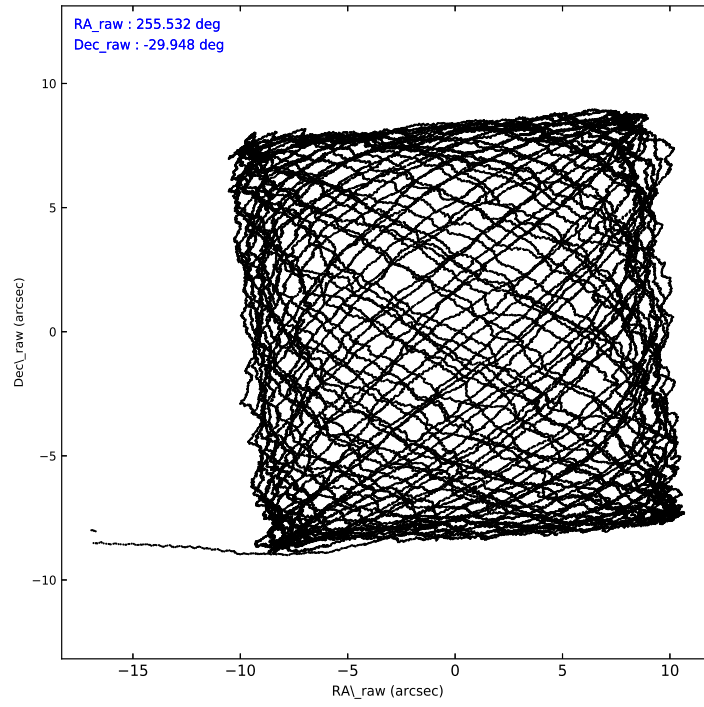
	ccd 7
level 1 events	42446
rejected events	21292
rejected %	50%

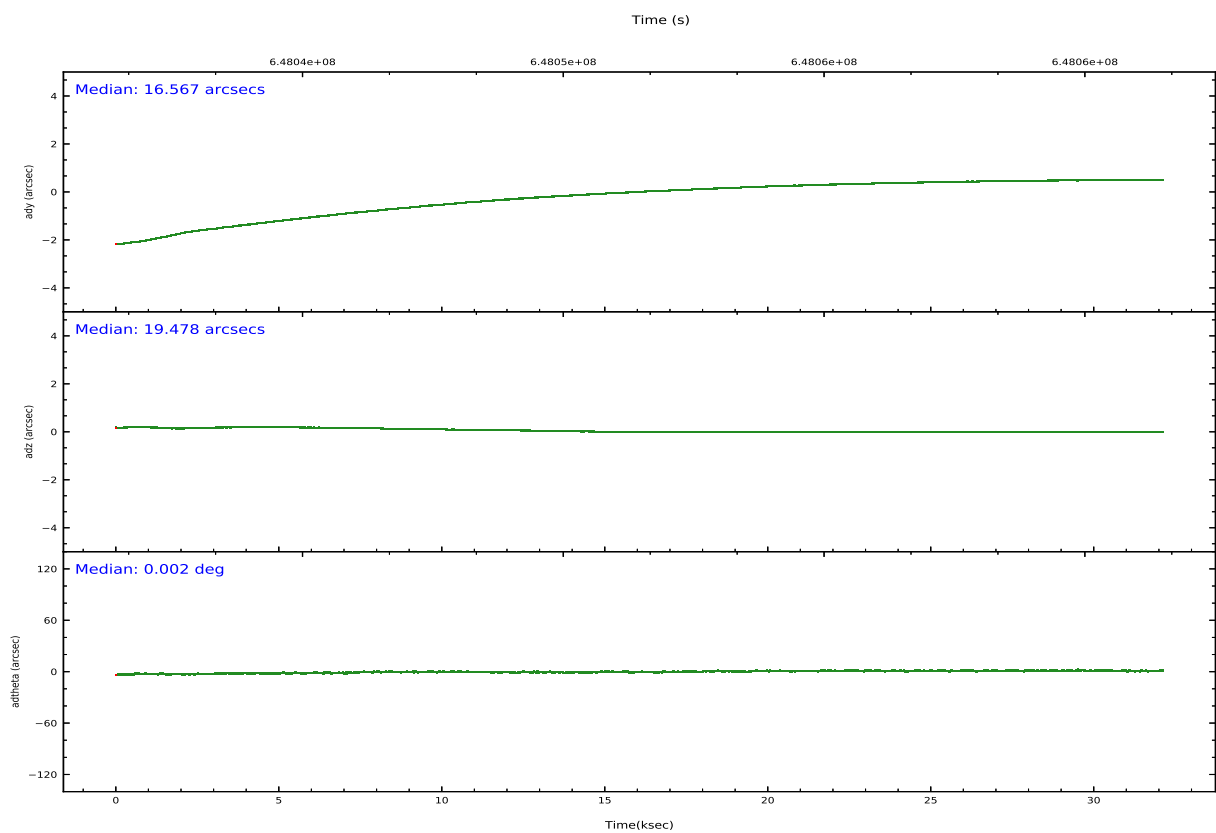
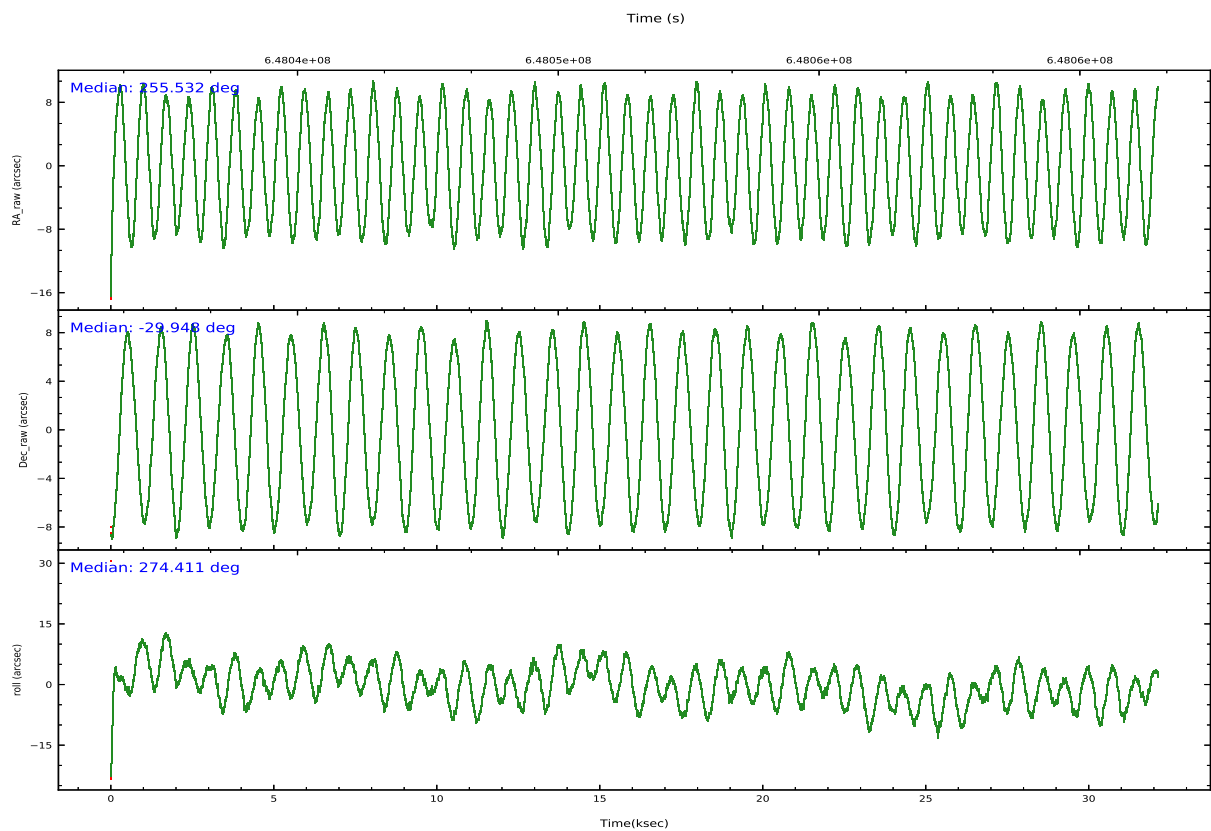
	ccd 7
grade 0 events	2254
	5%
grade 1 events	81
	0%
grade 2 events	4220
	9%
grade 3 events	2769
	6%
grade 4 events	2706
	6%
grade 5 events	4453
	10%
grade 6 events	9205
	21%
grade 7 events	16758
	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	255.513953	255.52531526145	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.925980	-29.944121140111	Subarray start row	449	449
[deg] Pointing Roll	274.256643	274.41102590211	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	648034402.184000	648033286.49841			
Observation start date	2018-07-15T09:32:13	2018-07-15T09:14:46			
[s] Observation end time (MET)	648066402.184000	648067432.32543			
Observation end date	2018-07-15T18:25:33	2018-07-15T18:43:52			
Read mode	TIMED	TIMED			

2.3 Aspect



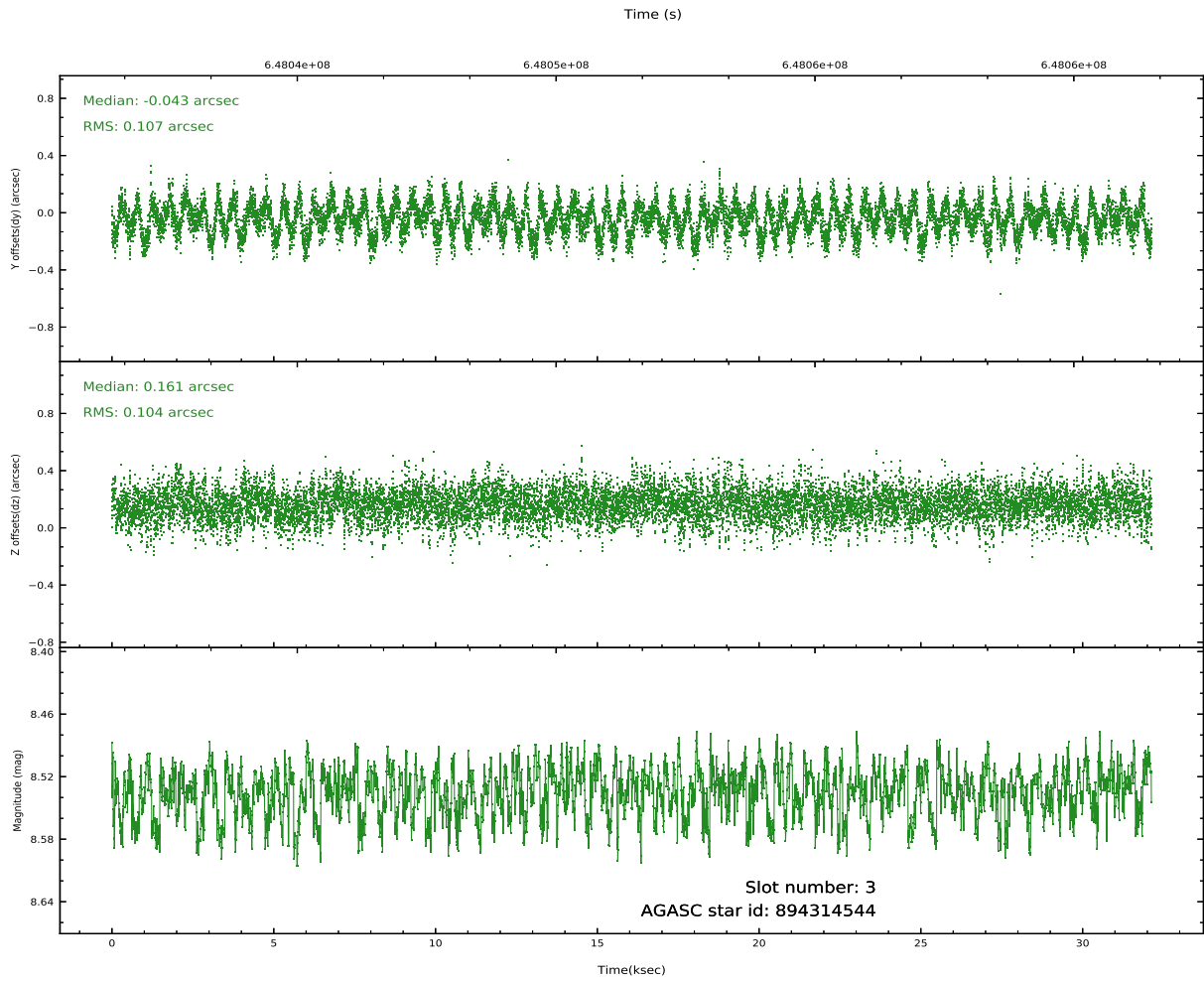
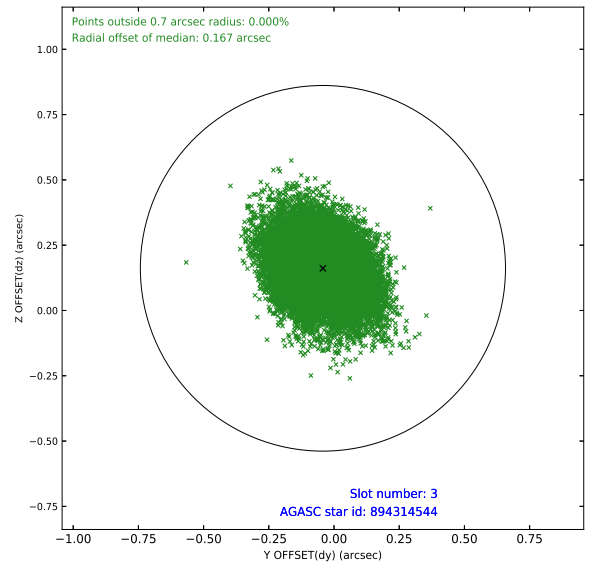
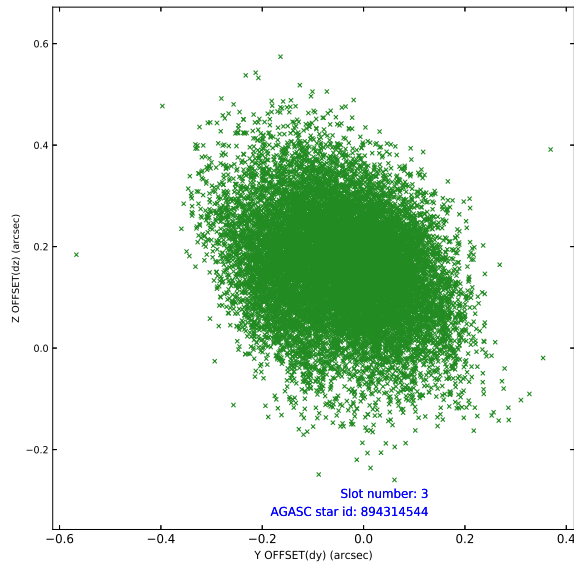


Slot Statistics

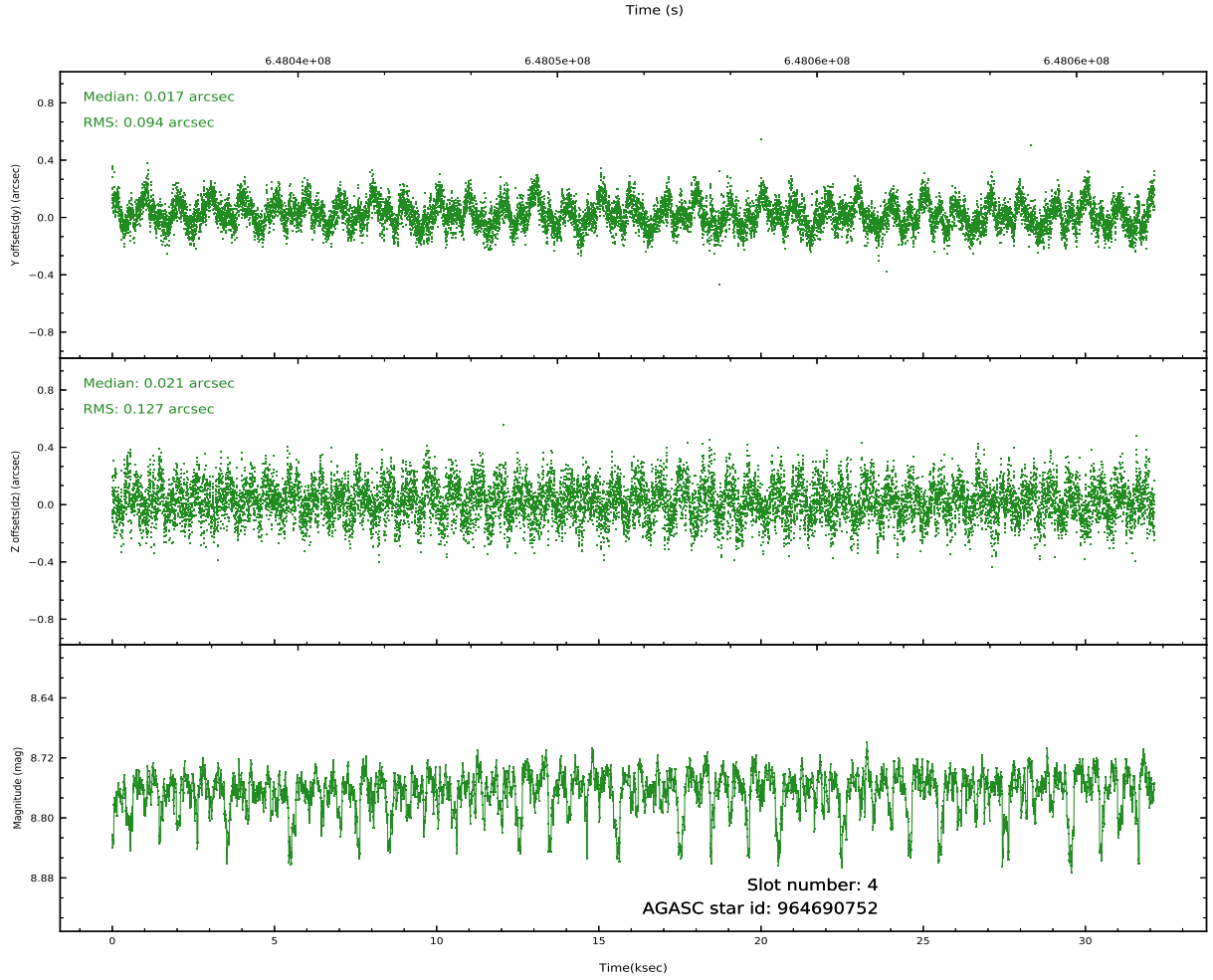
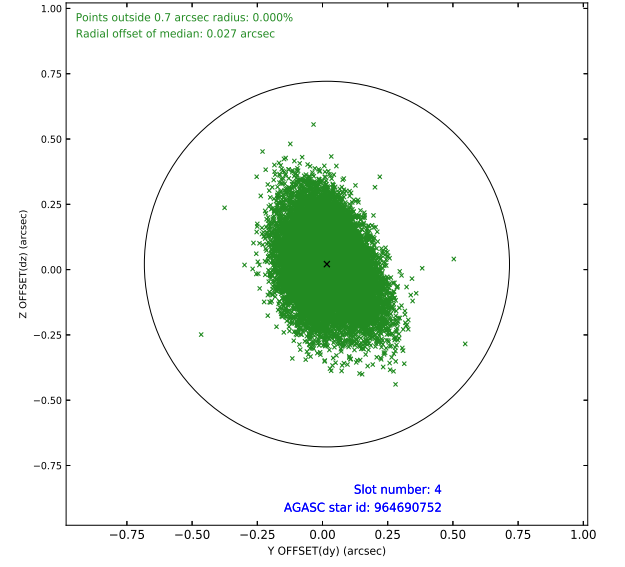
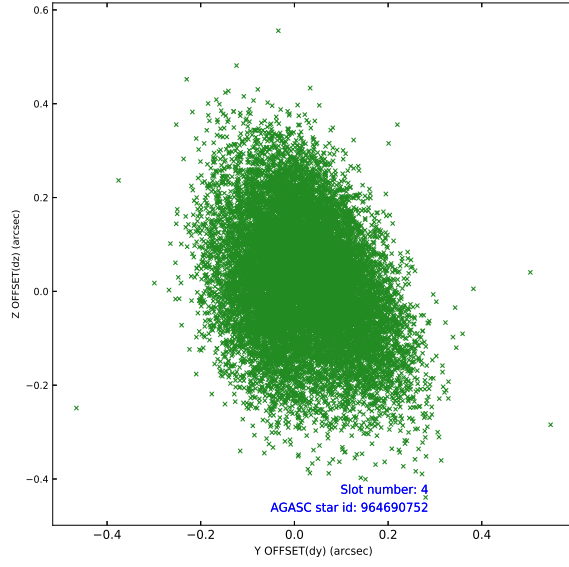
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	7834	1.000	0.101	-0.070	0.023	0.043	0.000000	0.000000	-769.39	-1740
1	FID		ACIS-S-4	7.11	7837	1.000	0.120	-0.030	0.015	0.053	0.000000	0.000000	2144.09	167
2	FID		ACIS-S-5	7.09	7836	1.000	-0.252	0.106	0.019	0.029	0.000000	0.000000	-1822.31	161
3	GUIDE	used	894314544	8.53	15663	1.000	-0.043	0.161	0.159	0.255	255.921805	-29.699914	-714.39	1332
4	GUIDE	used	964690752	8.76	15662	1.000	0.017	0.021	0.166	0.277	255.992274	-30.082811	676.84	1444
5	GUIDE	used	964693496	8.85	15662	1.000	0.175	-0.207	0.195	0.320	255.191226	-30.516598	2051.49	-1155
6	GUIDE	used	894311560	8.23	15663	1.000	-0.031	0.081	0.130	0.230	255.968048	-29.561250	-1200.87	1515
7	GUIDE	used	894312440	8.34	15666	1.000	-0.126	-0.054	0.141	0.253	256.267206	-29.720309	-555.98	2403

2.4 Star Slots

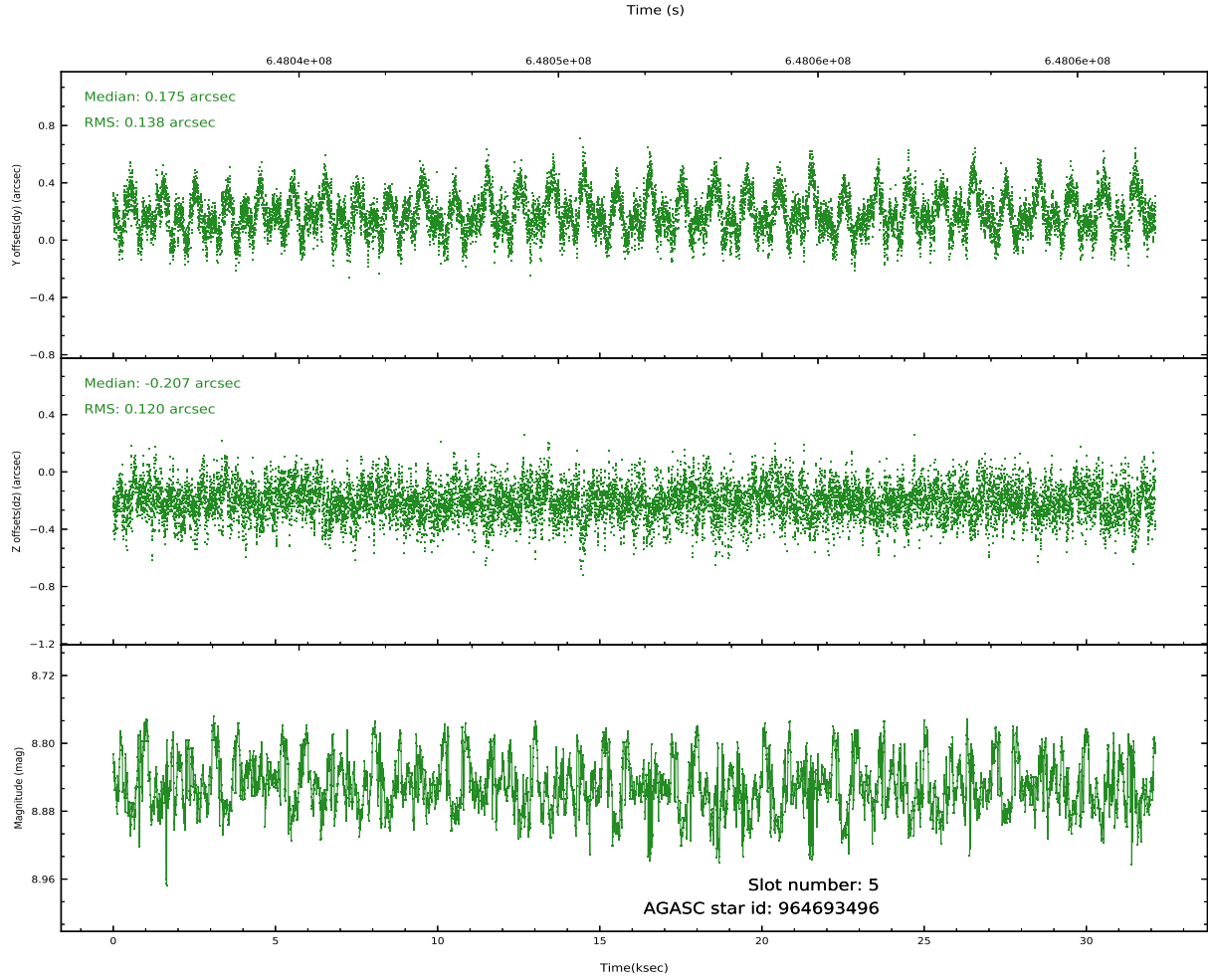
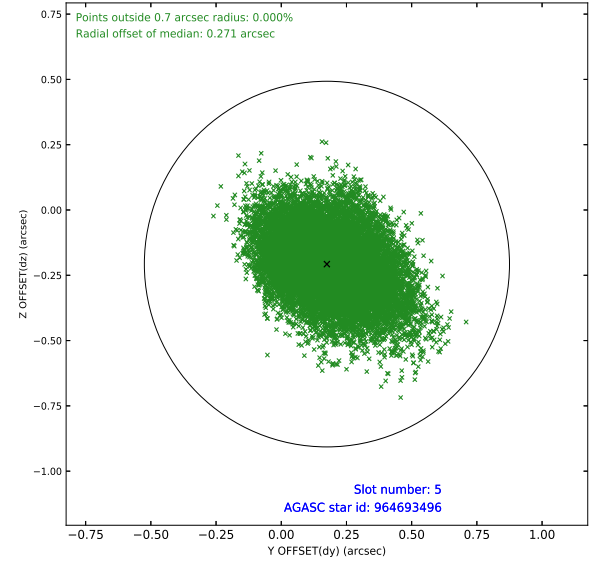
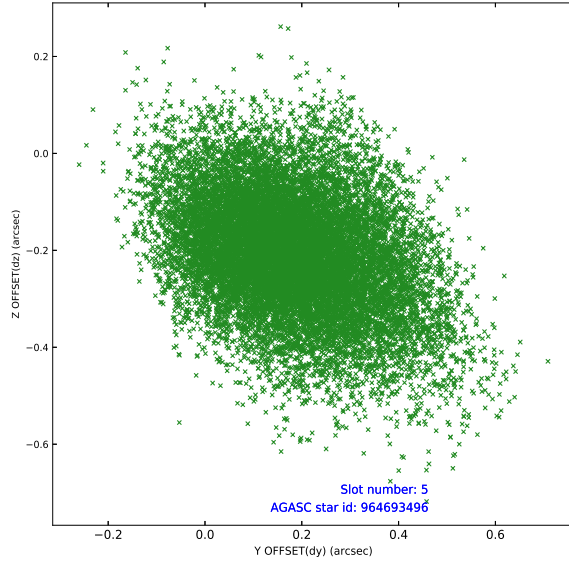
2.4.1 Slot 3



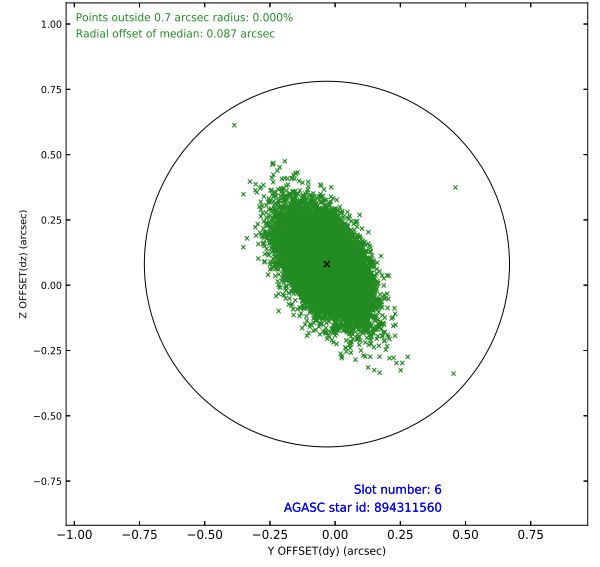
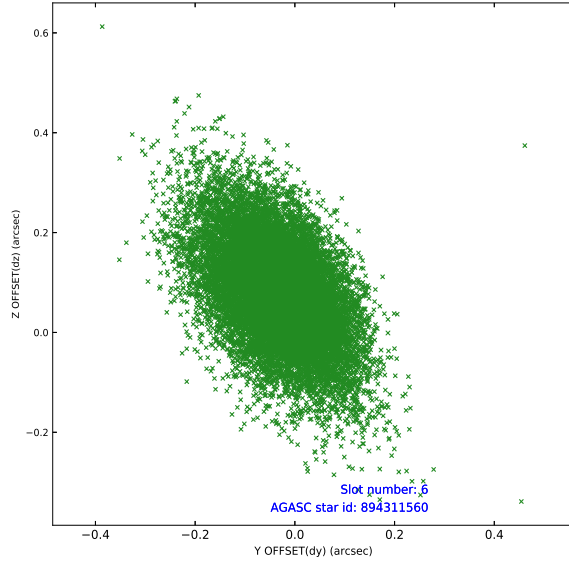
2.4.2 Slot 4



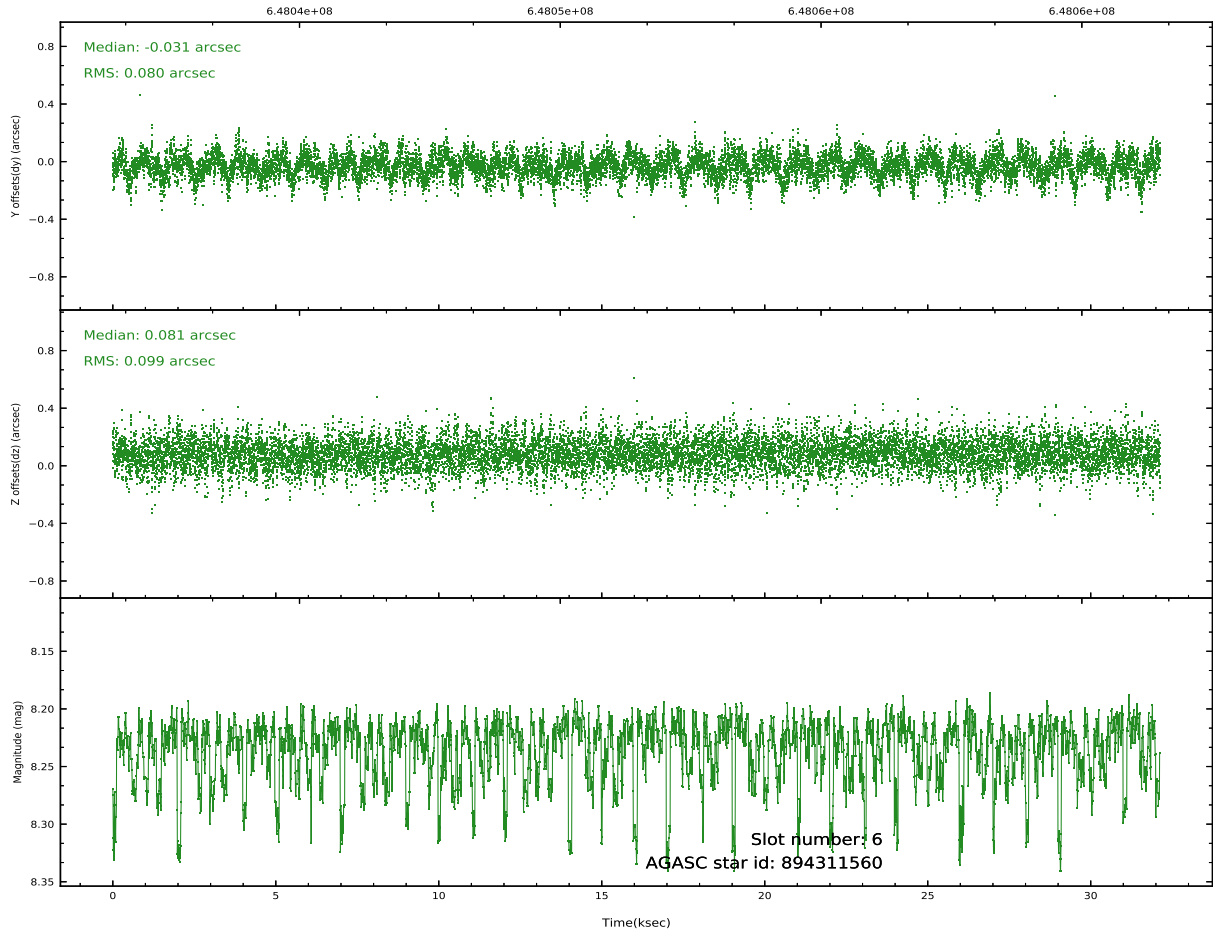
2.4.3 Slot 5



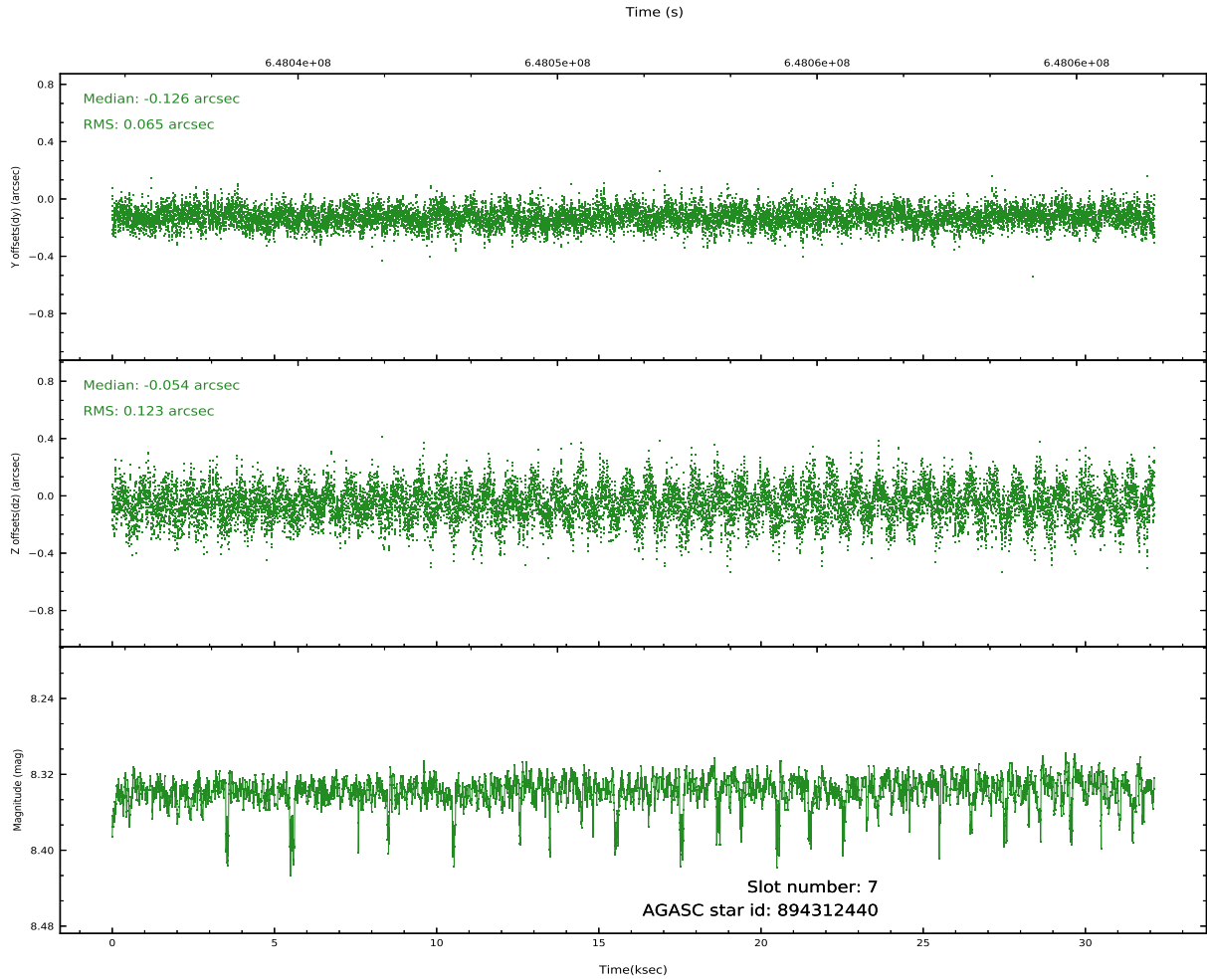
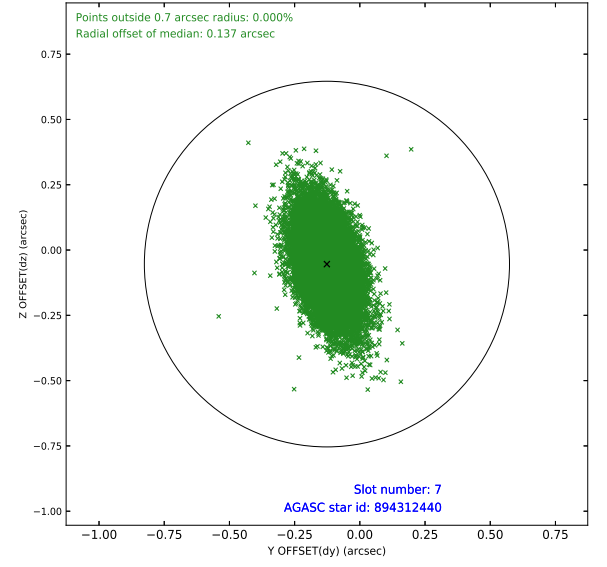
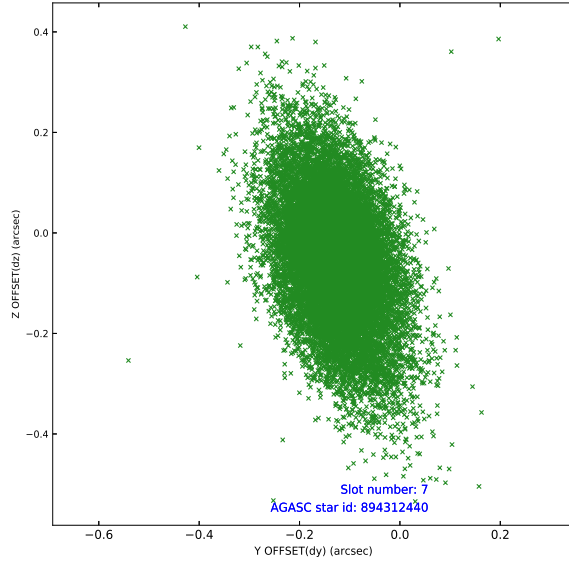
2.4.4 Slot 6



Time (s)

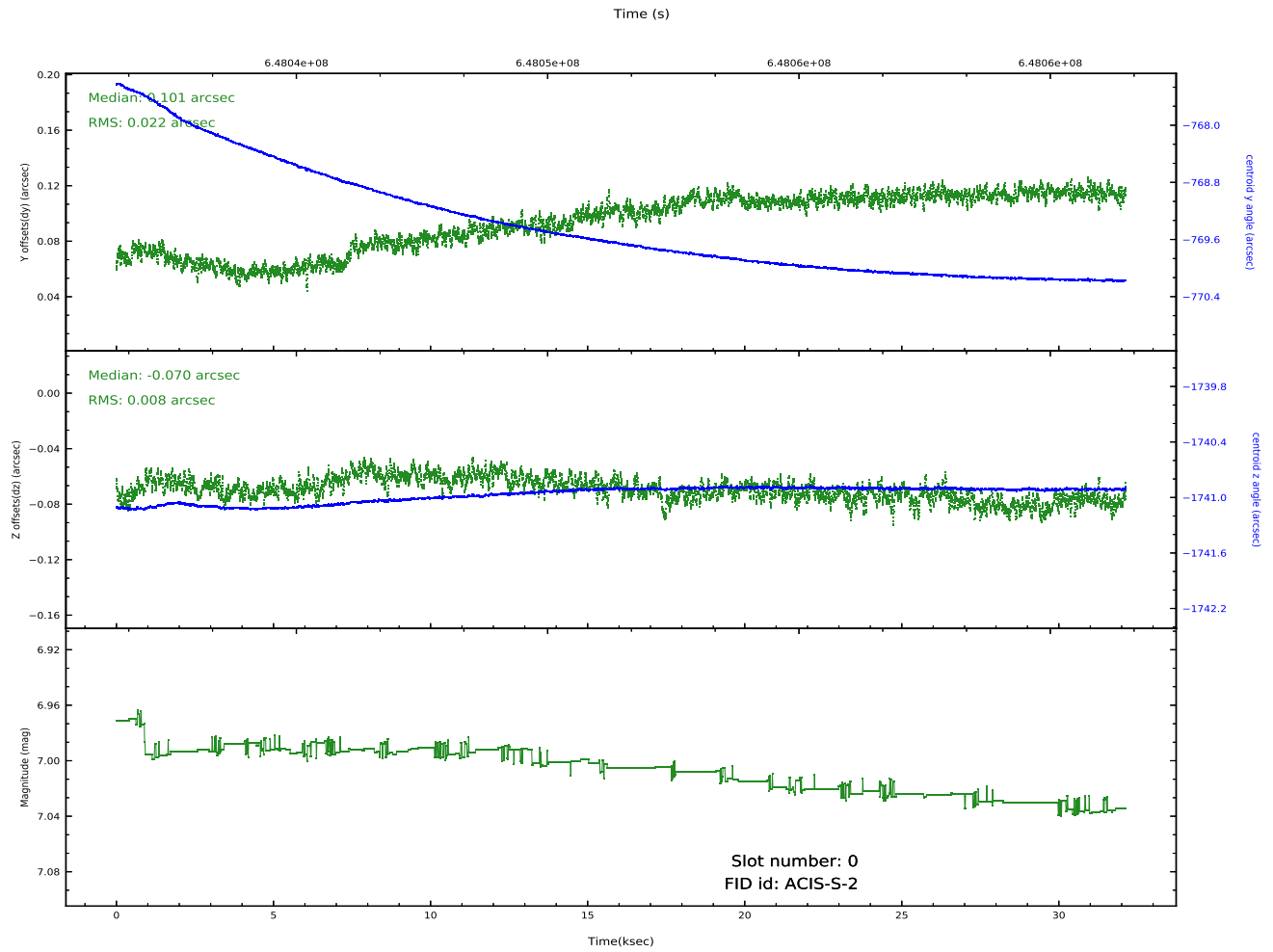
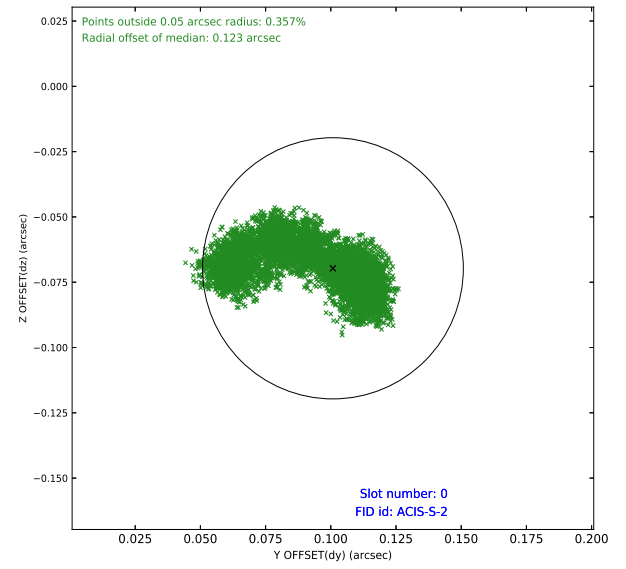
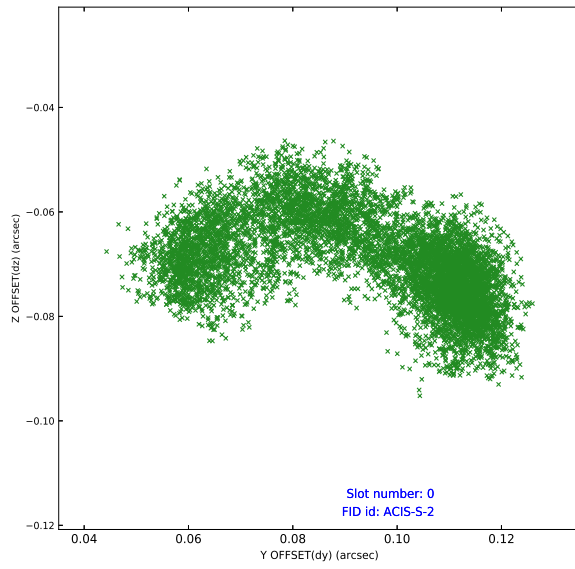


2.4.5 Slot 7

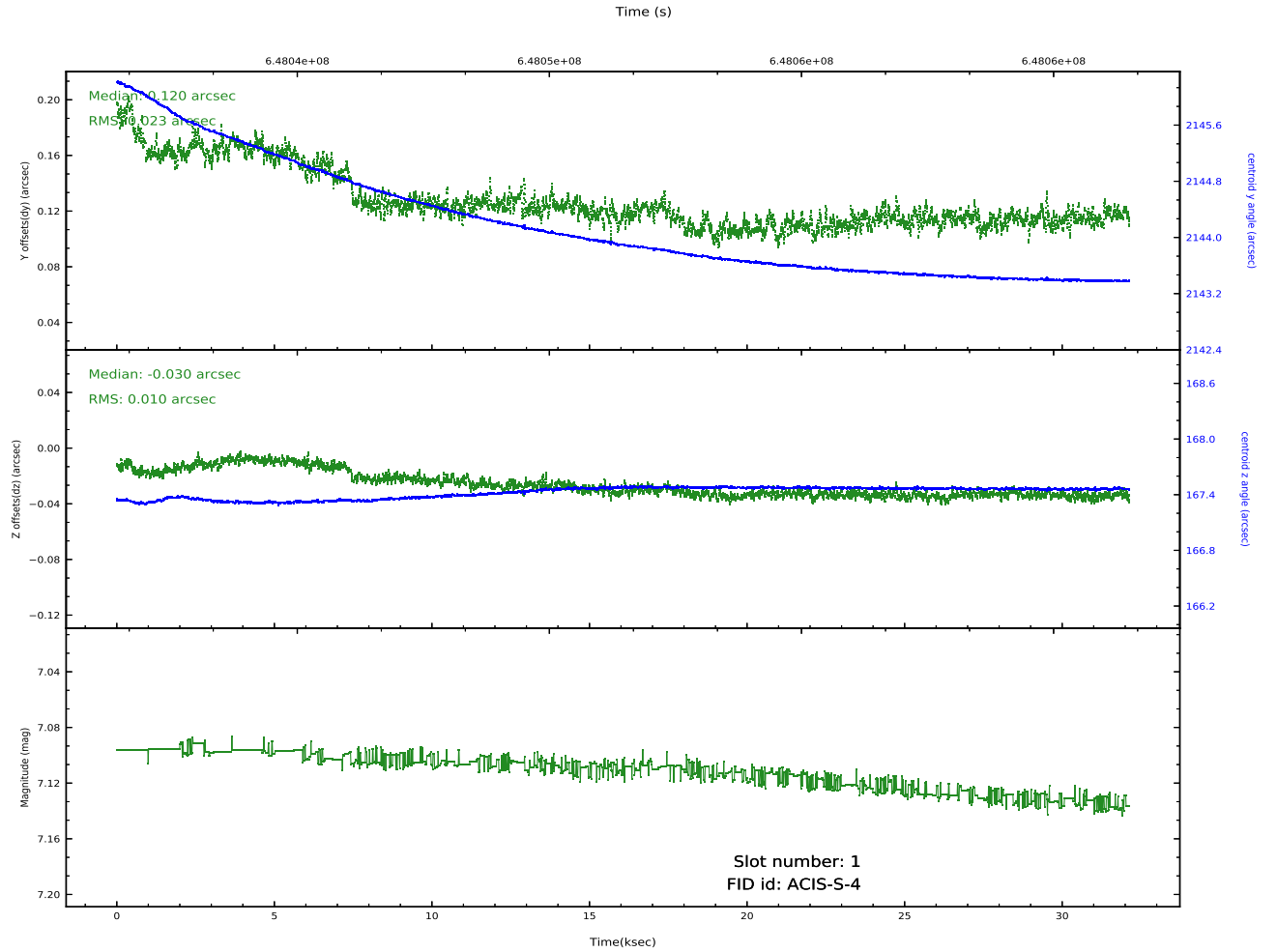
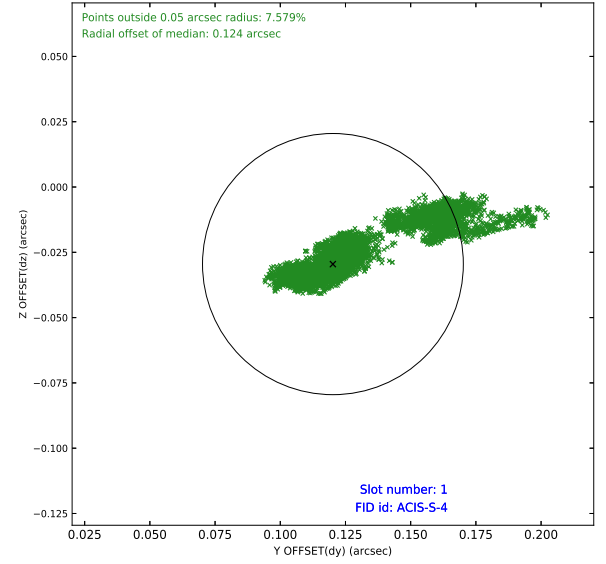
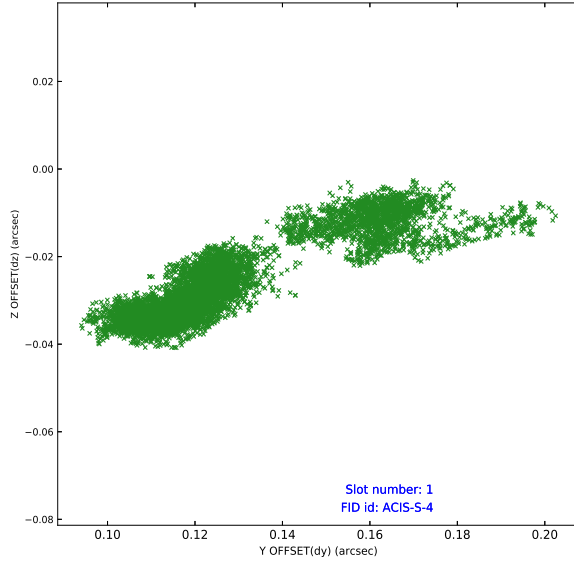


2.5 FID Slots

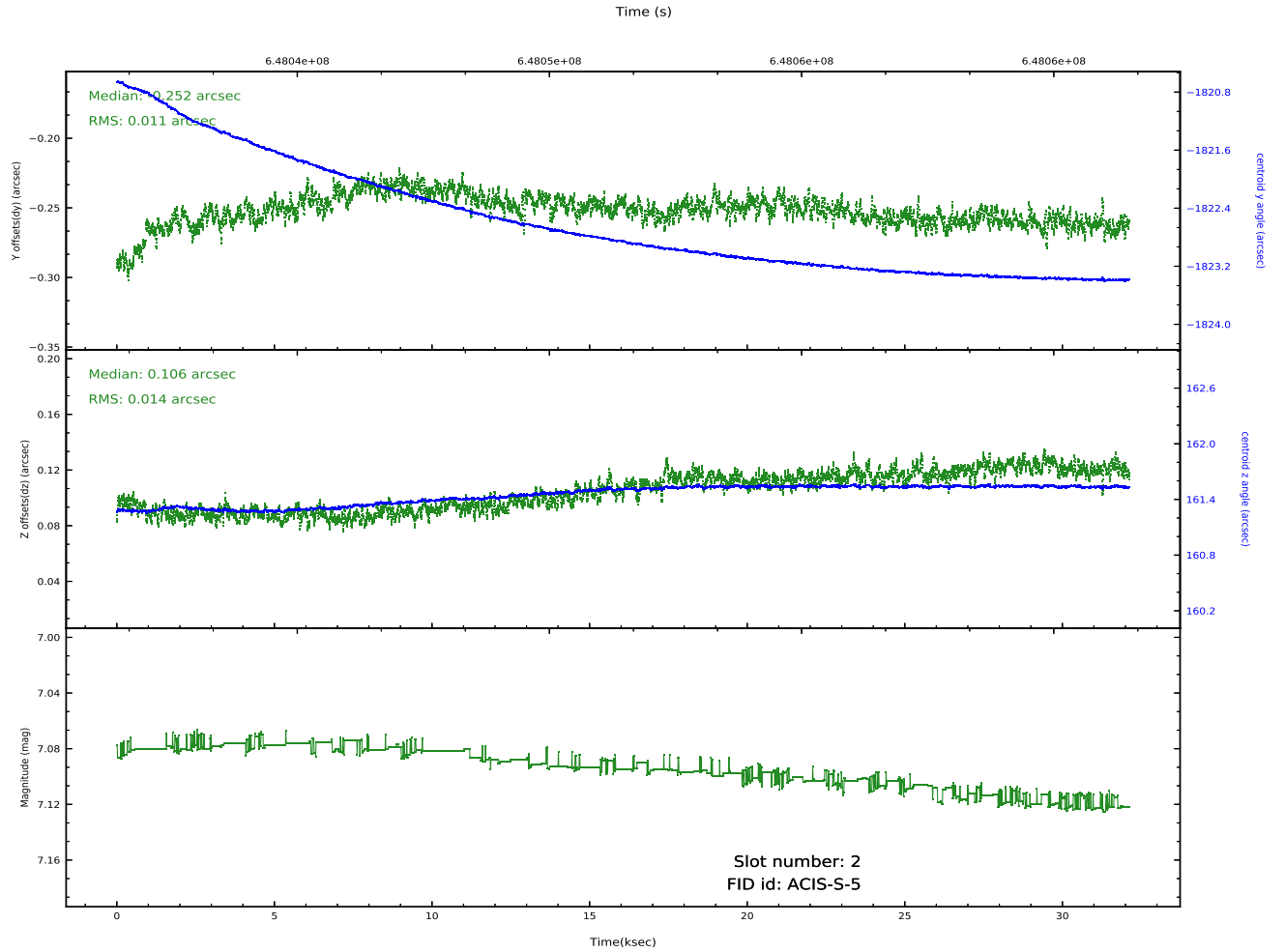
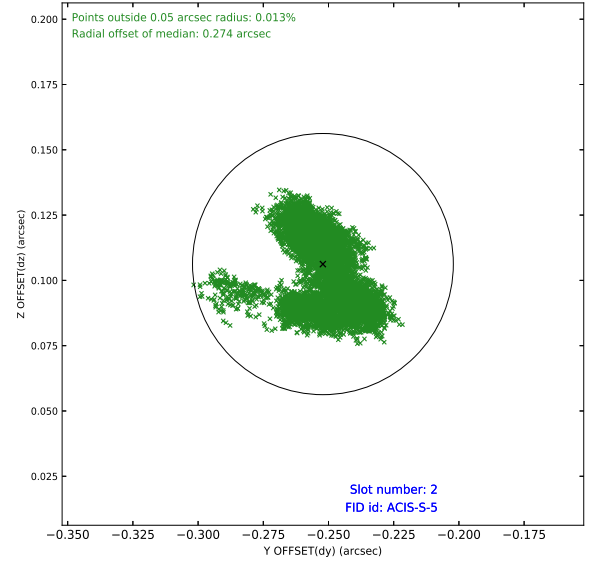
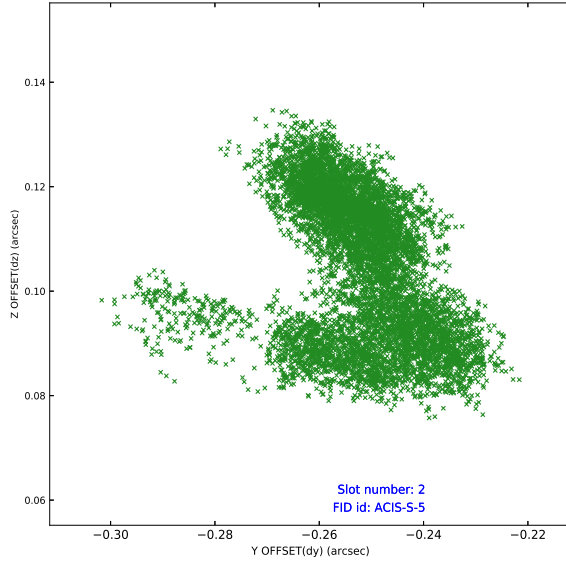
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.069198088408

A.2 Comments