

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 24841 - L2 Version 1
Chandra X-Ray Center

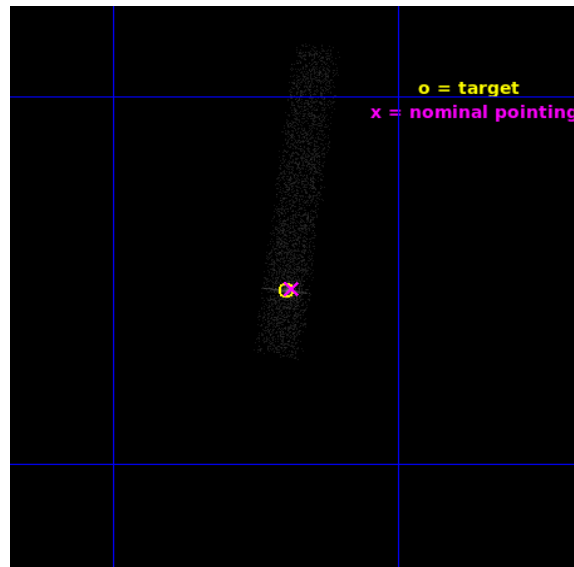
L2 Processing Date : Oct 14 2020

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1 Front

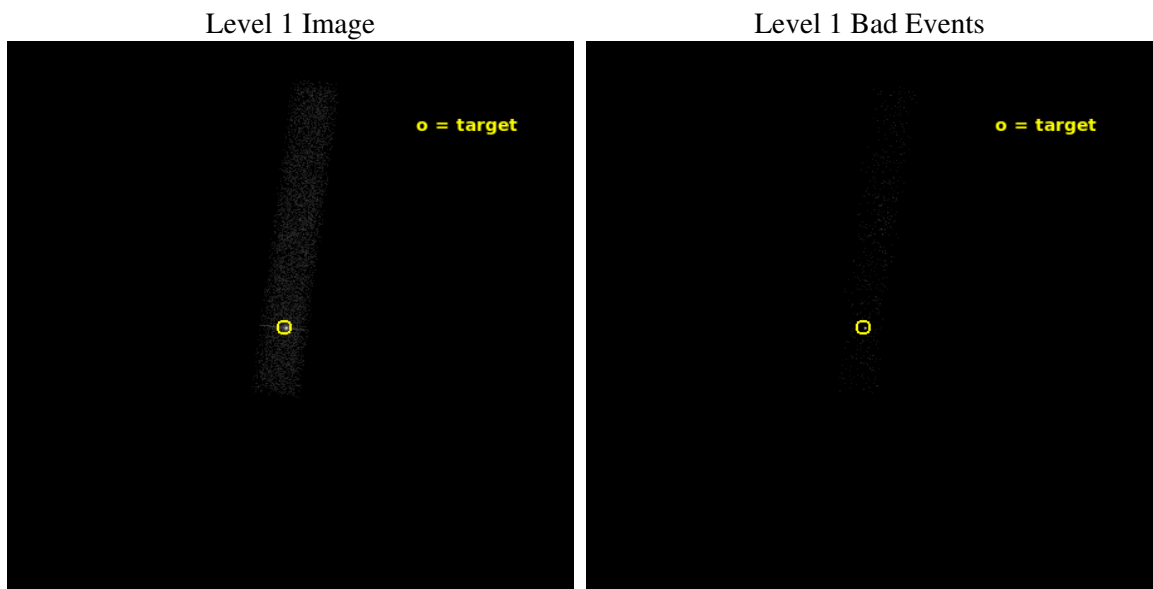
seq_num	503287	Sequence number
obs_id	24841	Observation id
title	CHANDRA OBSERVATIONS OF A NEW SGR 1830-0645	Proposal title
observer	Chryssa Kouveliotou	Principal investigator
object	SGR 1830-0645	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	277.673833	Observer's specified target RA [deg]
dec_targ	-6.754556	Observer's specified target Dec [deg]
ra_nom	277.67168965377	Nominal RA [deg]
dec_nom	-6.7538072315385	Nominal Dec [deg]
roll_nom	277.02802322612	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5077.9996972084	Sum of GTIs [s]
livetime	4605.4776865667	Livetime [s]
ontime7	5077.9996972084	Sum of GTIs [s]
l2events	11073	Number of level 2 events



2 OBI

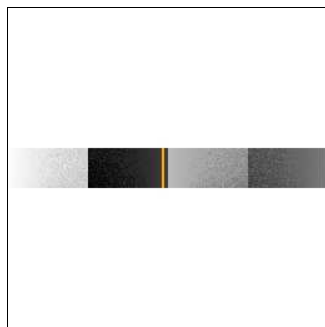
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5008.294000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5077.9996972084	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	5077.9996972084	Sum of GTIs [s]
date	2020-10-15T01:45:41	Date and time of file creation	l1events	16593	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

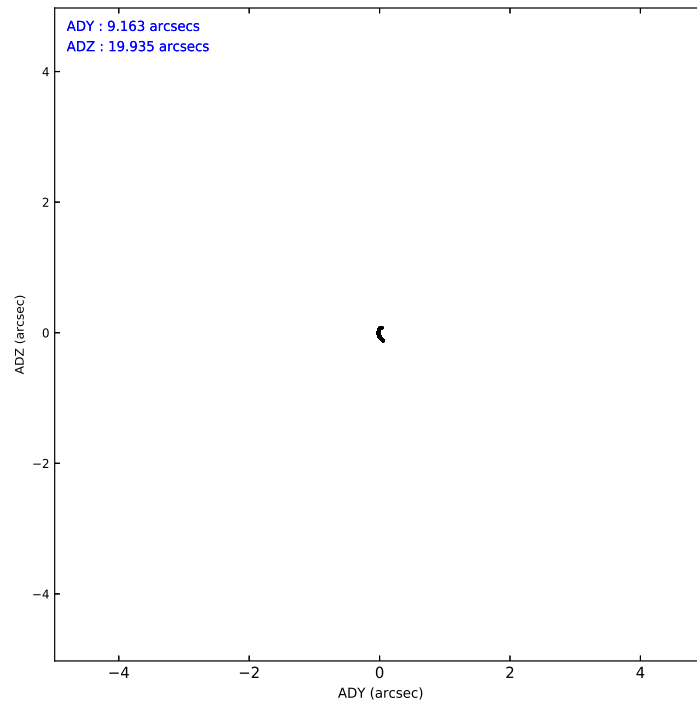
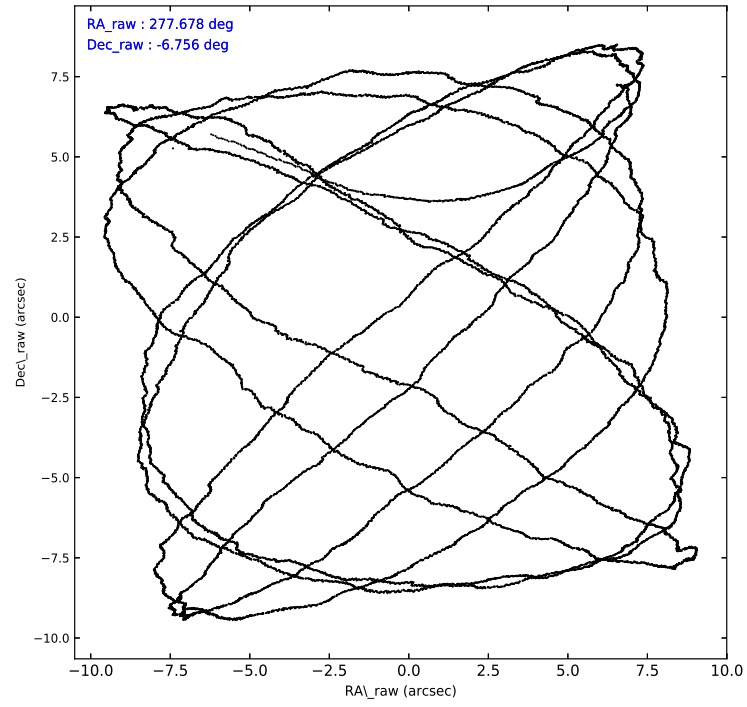
	ccd 7
level 1 events	16593
rejected events	5364
rejected %	32%

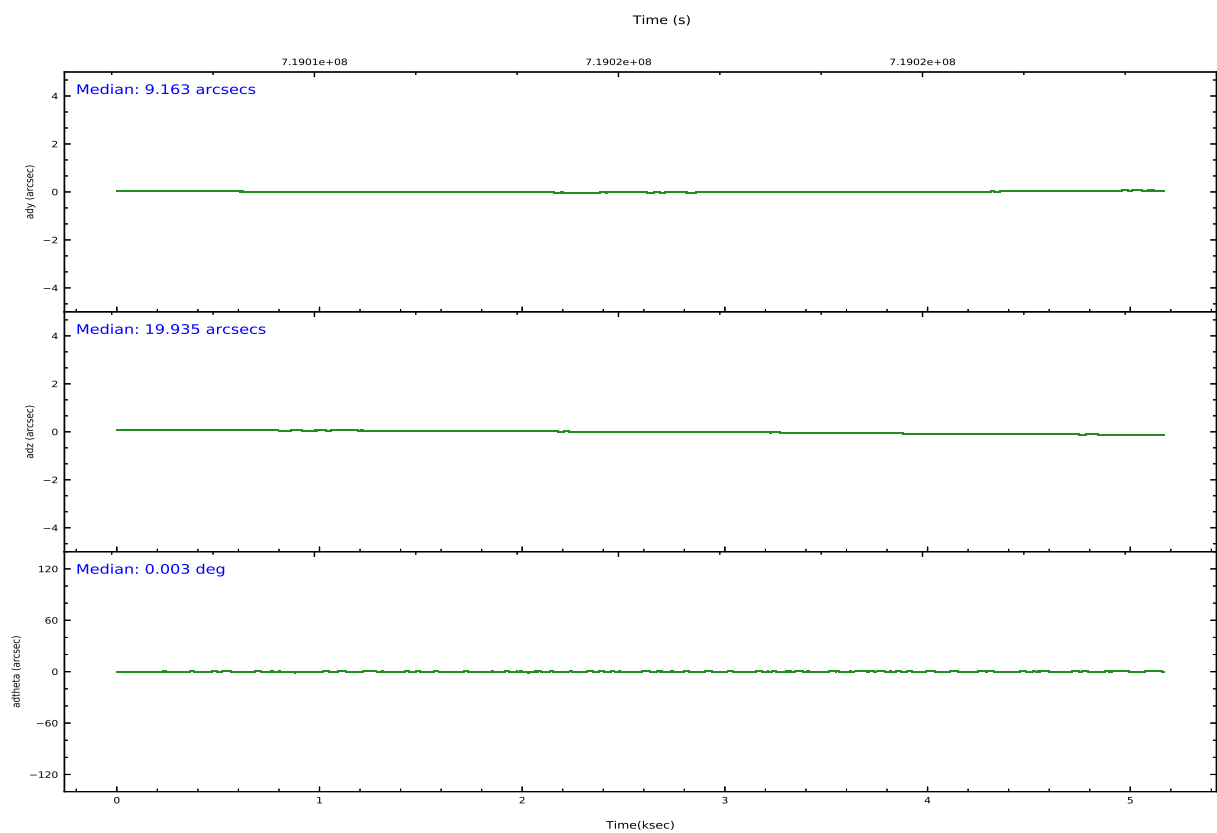
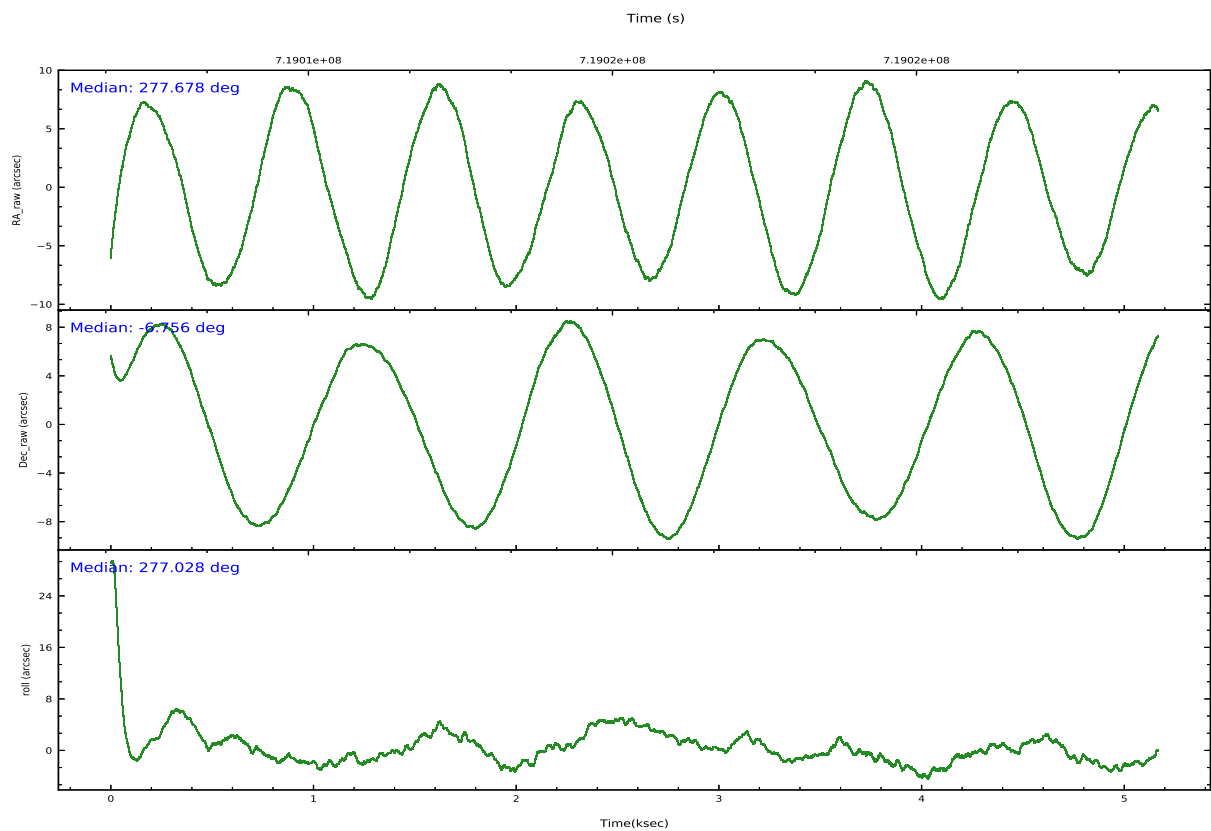
	ccd 7
grade 0 events	1650
	9%
grade 1 events	130
	0%
grade 2 events	2527
	15%
grade 3 events	1191
	7%
grade 4 events	1172
	7%
grade 5 events	1337
	8%
grade 6 events	4691
	28%
grade 7 events	3895
	23%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	277.660737	277.67168965377	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-6.734163	-6.7538072315385	Subarray start row	449	449
[deg] Pointing Roll	276.879605	277.02802322612	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	719013183.184000	719011968.89817			
Observation start date	2020-10-13T21:51:54	2020-10-13T21:32:48			
[s] Observation end time (MET)	719018192.184000	719019149.53611			
Observation end date	2020-10-13T23:15:23	2020-10-13T23:32:29			
Read mode	TIMED	TIMED			

2.3 Aspect



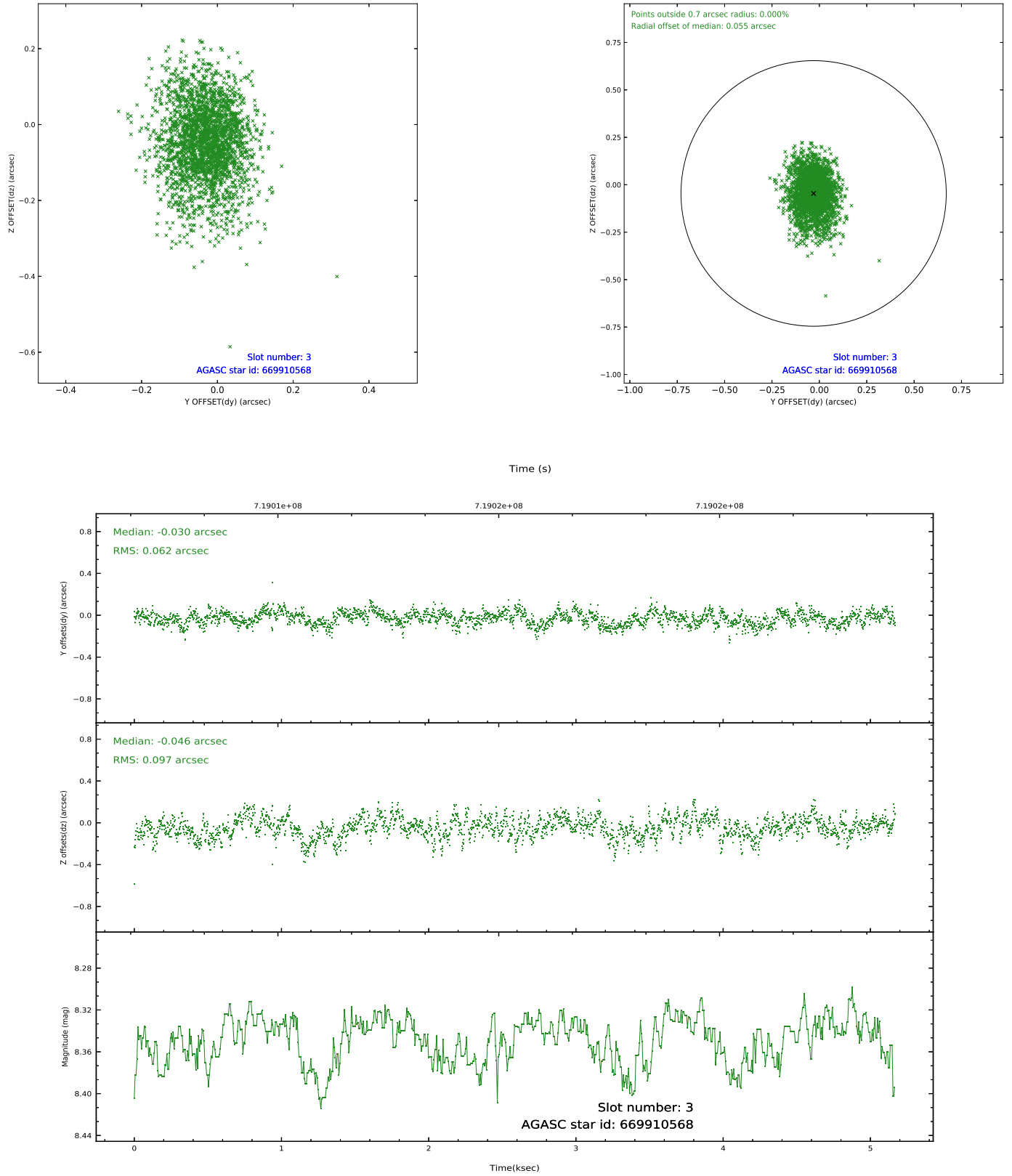


Slot Statistics

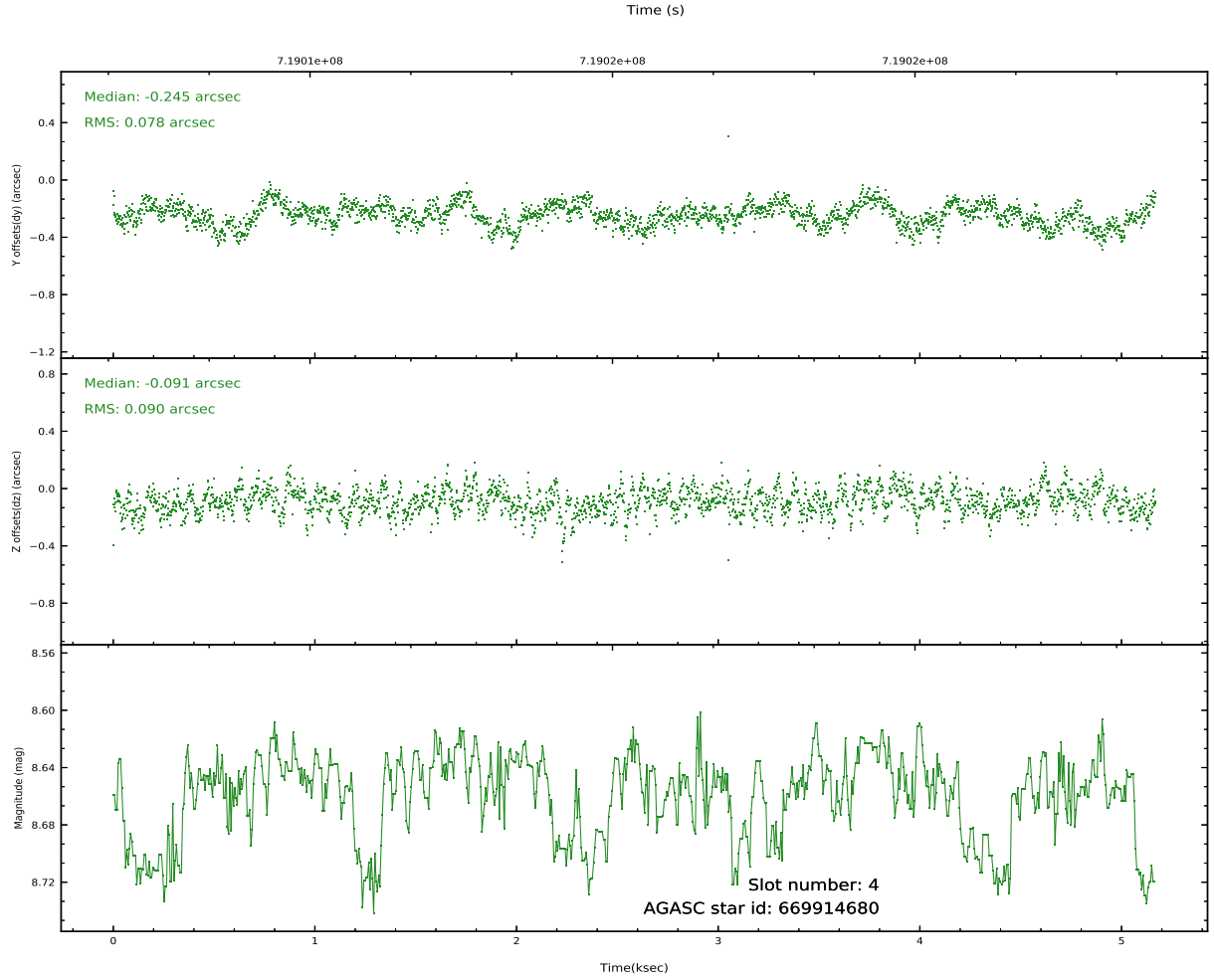
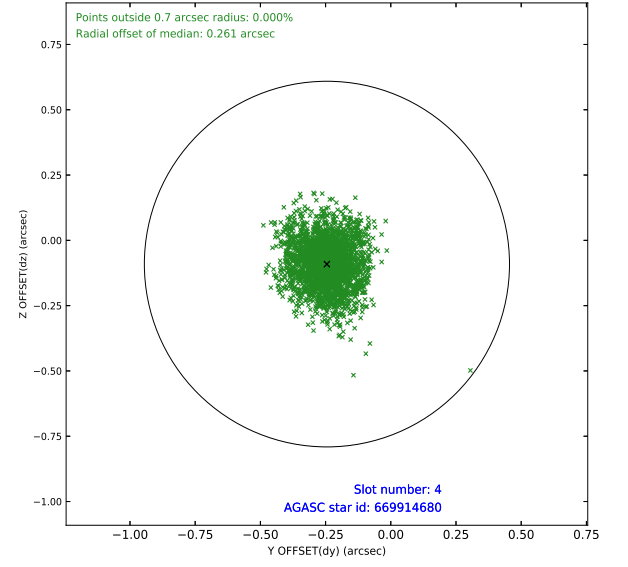
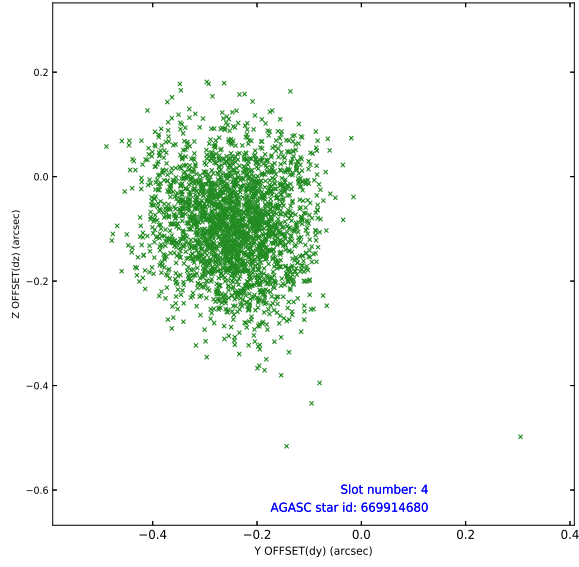
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	1261	1.000	0.124	-0.003	0.007	0.010	0.000000	0.000000	-762.09	-1741
1	FID		ACIS-S-4	7.12	1260	1.000	0.089	-0.058	0.006	0.011	0.000000	0.000000	2150.87	165
2	FID		ACIS-S-5	7.11	1260	1.000	-0.244	0.070	0.008	0.014	0.000000	0.000000	-1813.54	161
3	GUIDE	used	669910568	8.35	2522	1.000	-0.030	-0.046	0.118	0.205	277.462160	-7.287403	1893.37	-942
4	GUIDE	used	669914680	8.65	2521	1.000	-0.245	-0.091	0.128	0.206	277.027999	-6.151327	-2351.83	-1998
5	GUIDE	used	671614256	9.26	2515	1.000	0.329	0.114	0.168	0.266	277.625307	-7.278356	1929.80	-360
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	671622864	9.25	2519	1.000	-0.053	0.034	0.189	0.321	278.063001	-6.507914	-634.65	1525

2.4 Star Slots

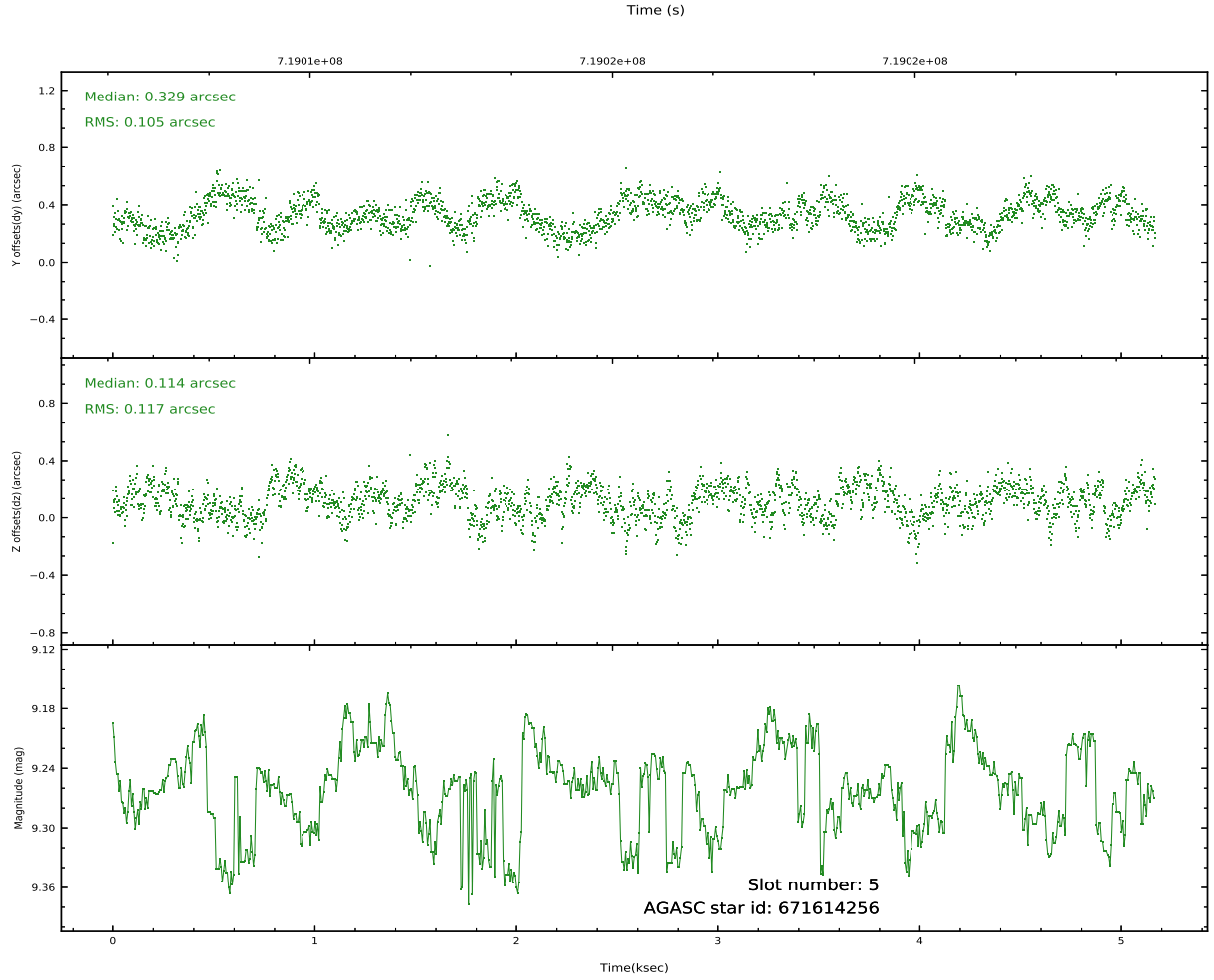
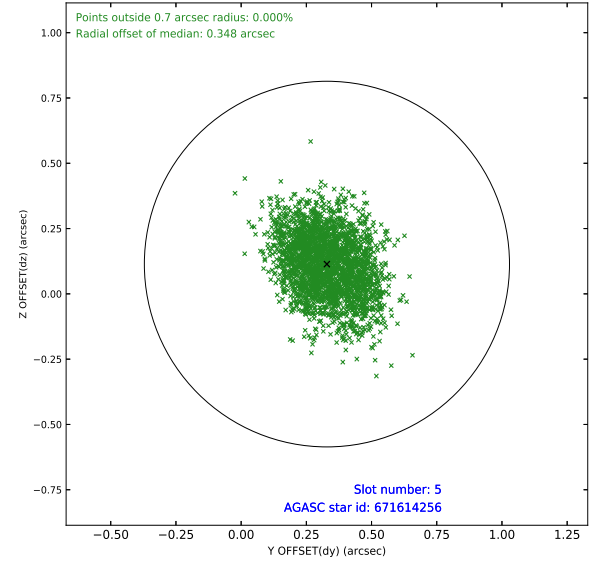
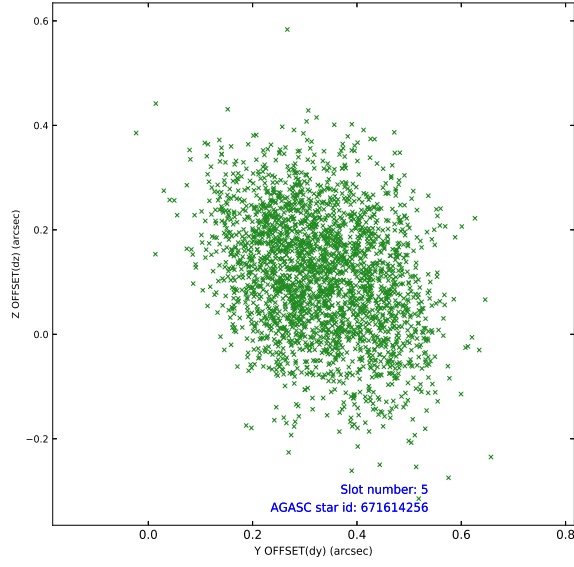
2.4.1 Slot 3



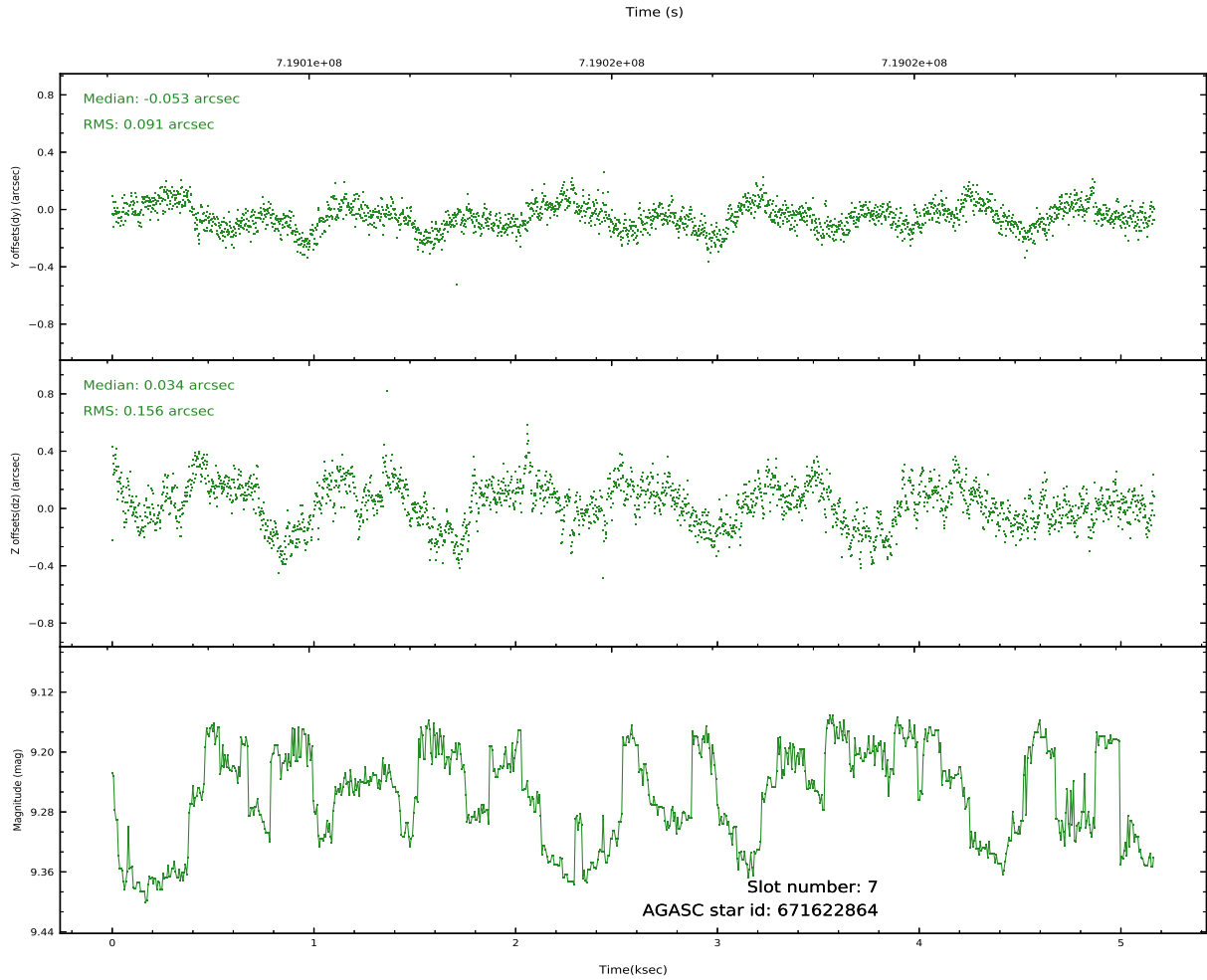
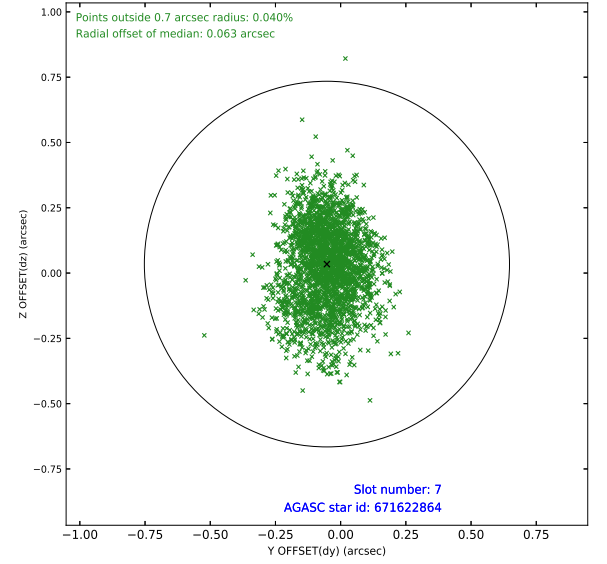
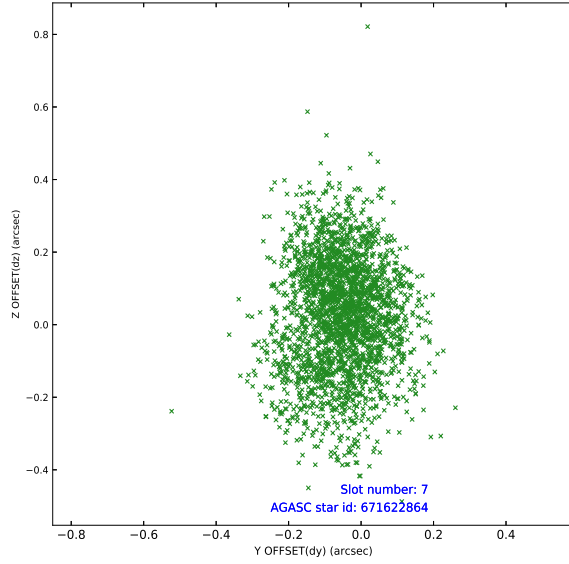
2.4.2 Slot 4



2.4.3 Slot 5

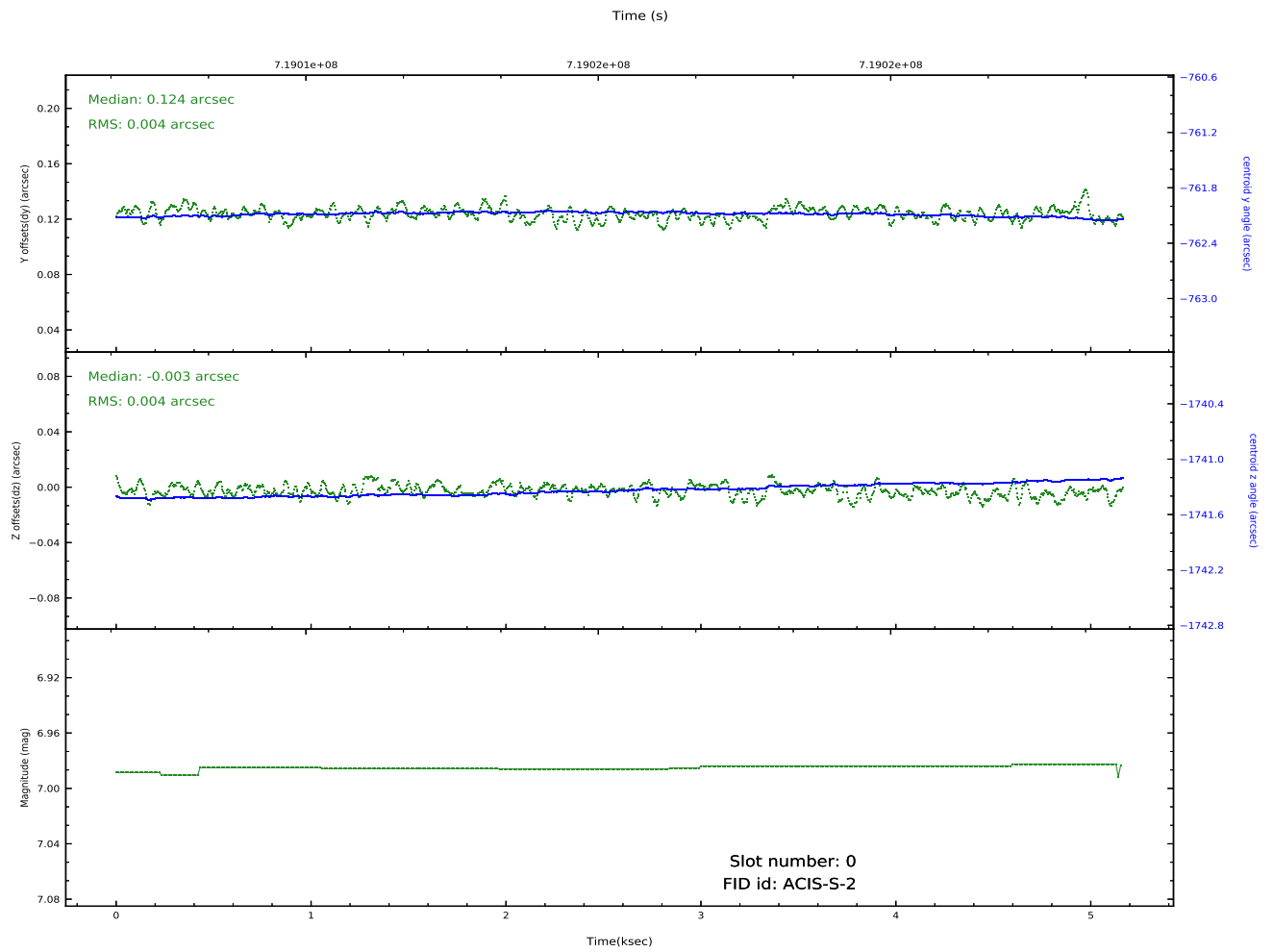
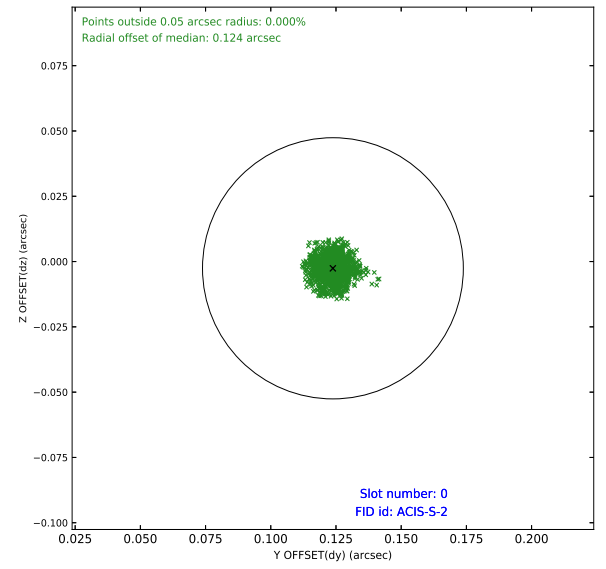
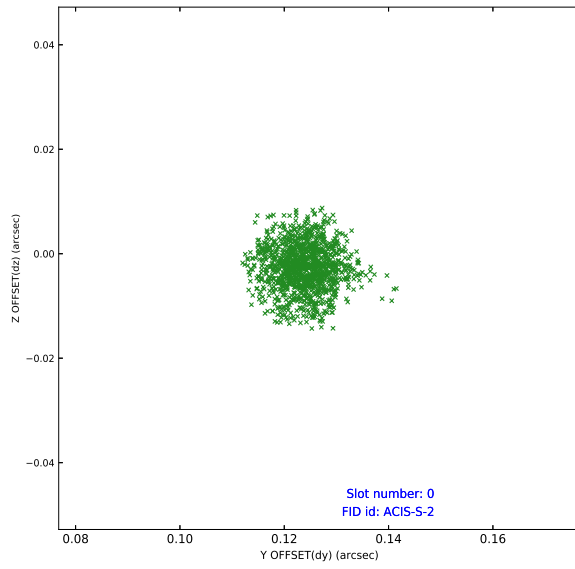


2.4.4 Slot 7

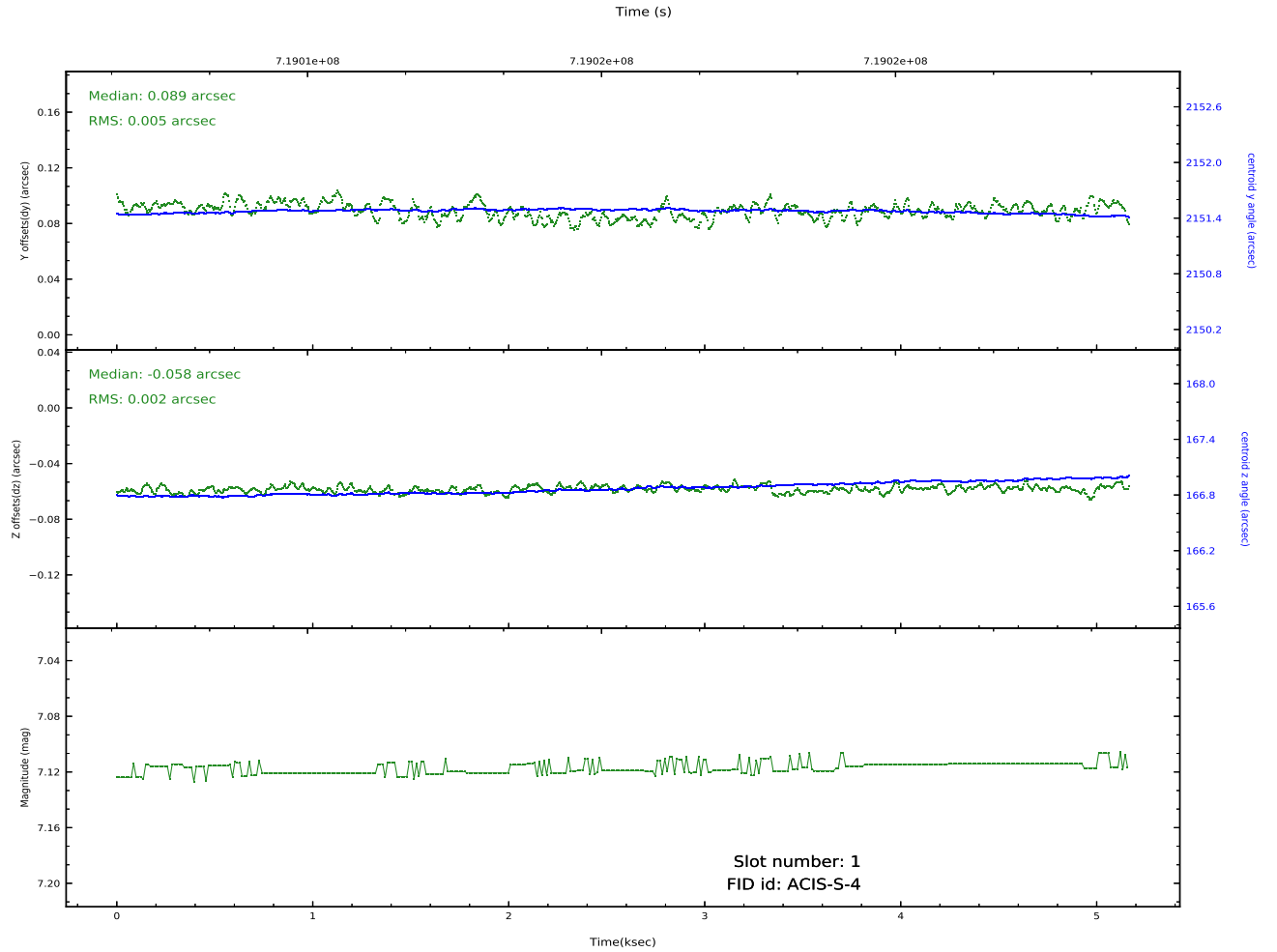
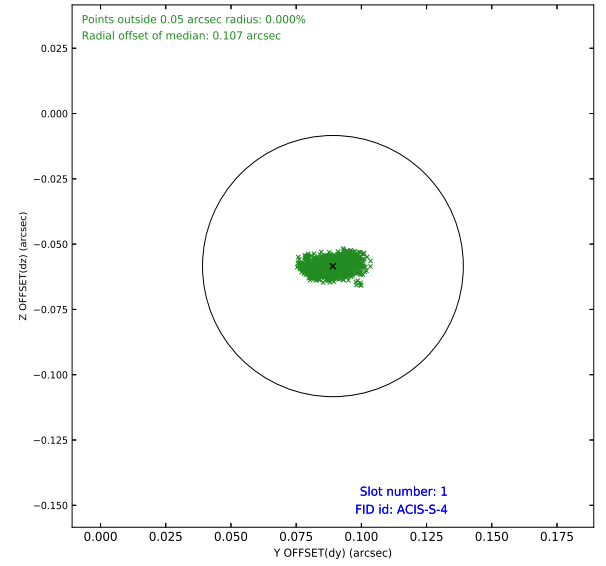
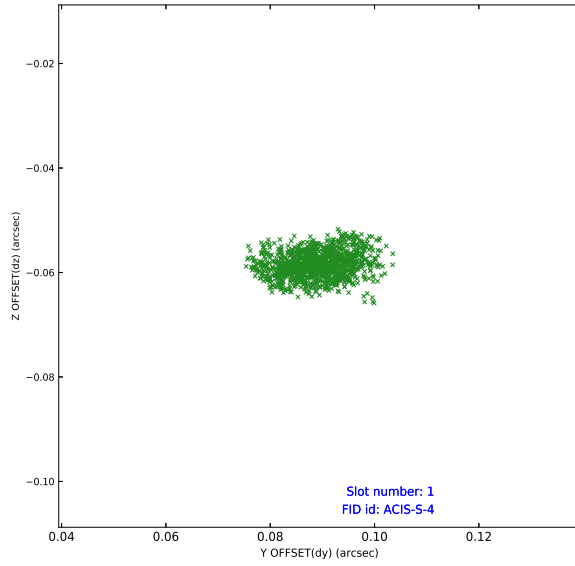


2.5 FID Slots

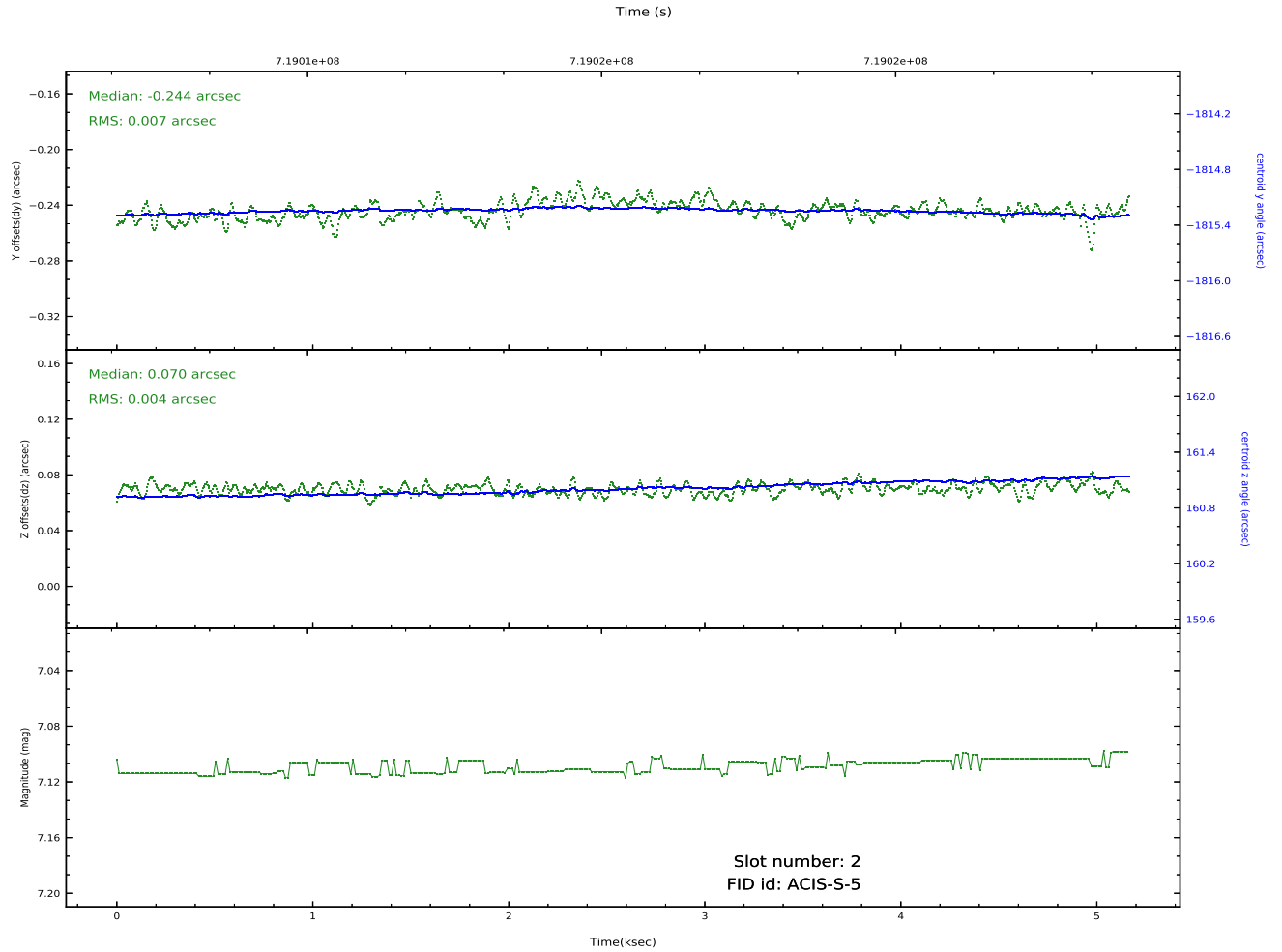
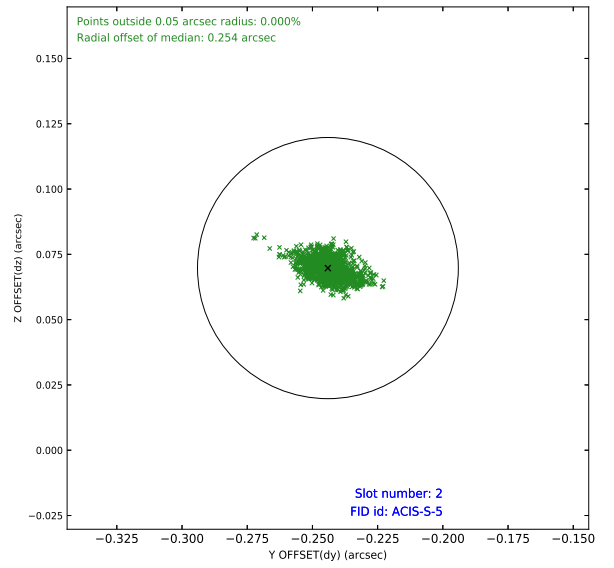
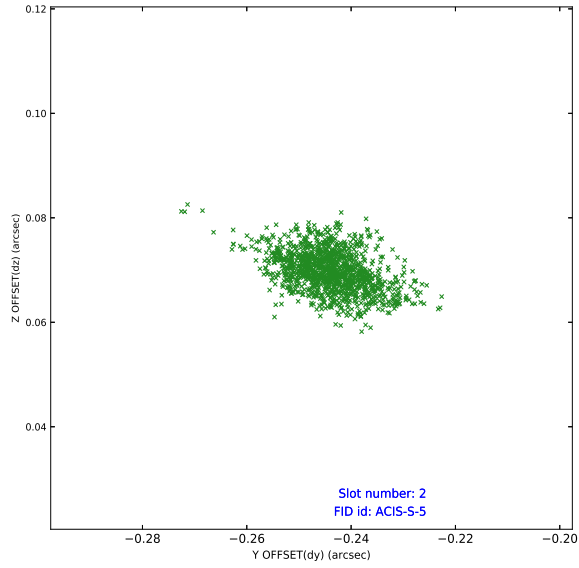
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0779996972084

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.