

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 24838 - L2 Version 1
Chandra X-Ray Center

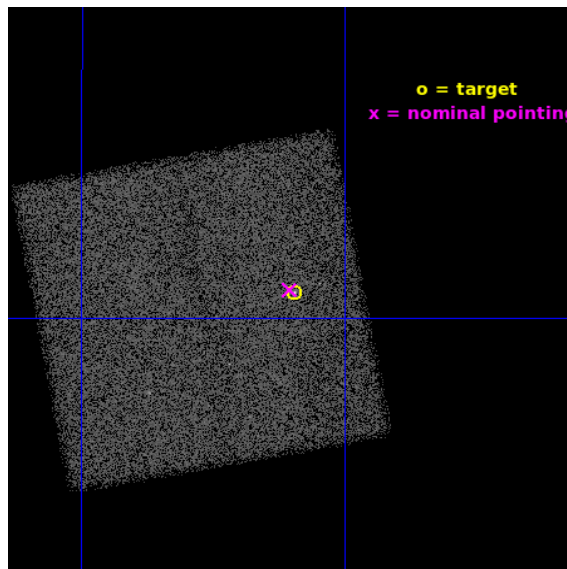
L2 Processing Date : Oct 14 2020

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1 Front

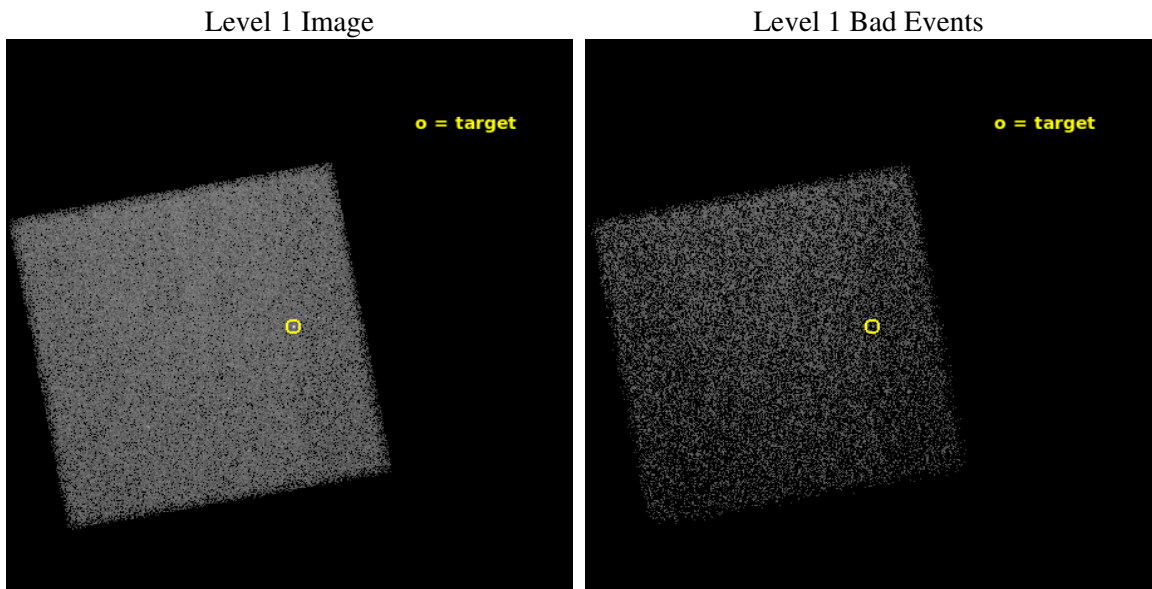
seq_num	201443	Sequence number
obs_id	24838	Observation id
title	Stellar activity with TESS and Chandra	Proposal title
observer	Hans Guenther	Principal investigator
object	2RXS J012535.1+233030	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	21.398613	Observer's specified target RA [deg]
dec_targ	23.511429	Observer's specified target Dec [deg]
ra_nom	21.400910881405	Nominal RA [deg]
dec_nom	23.51267314888	Nominal Dec [deg]
roll_nom	169.47078095041	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19910.703894854	Sum of GTIs [s]
livetime	19642.001316839	Livetime [s]
ontime7	19910.703894854	Sum of GTIs [s]
l2events	83154	Number of level 2 events



2 OBI

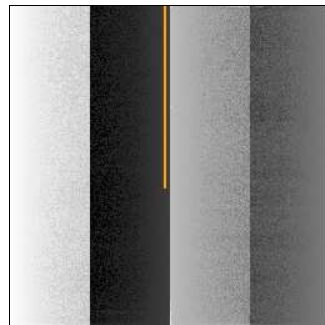
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	19910.703894854	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	19910.703894854	Sum of GTIs [s]
date	2020-10-15T01:41:20	Date and time of file creation	l1events	195833	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

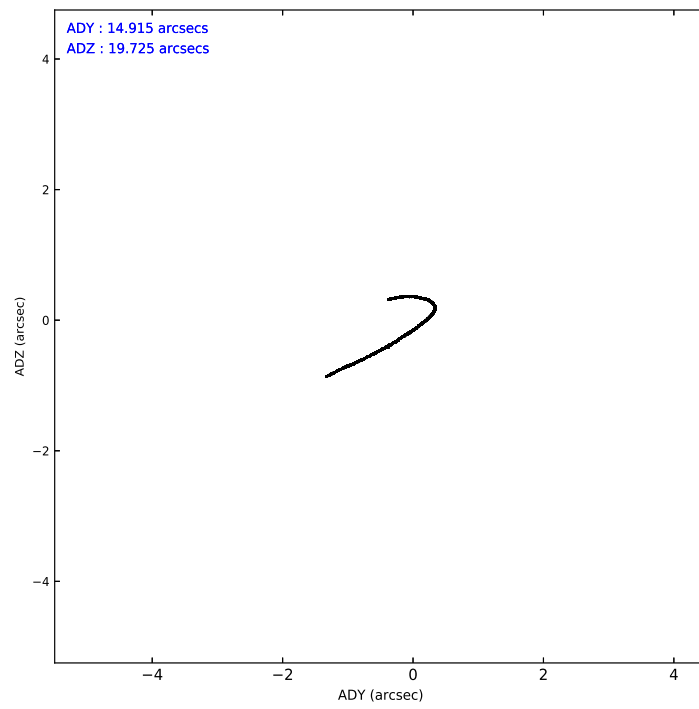
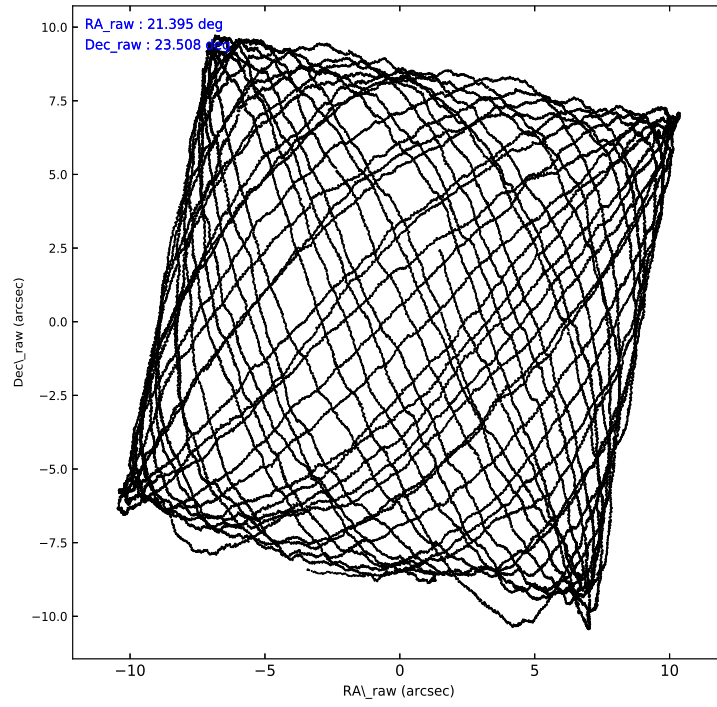
	ccd 7
level 1 events	195833
rejected events	109962
rejected %	56%

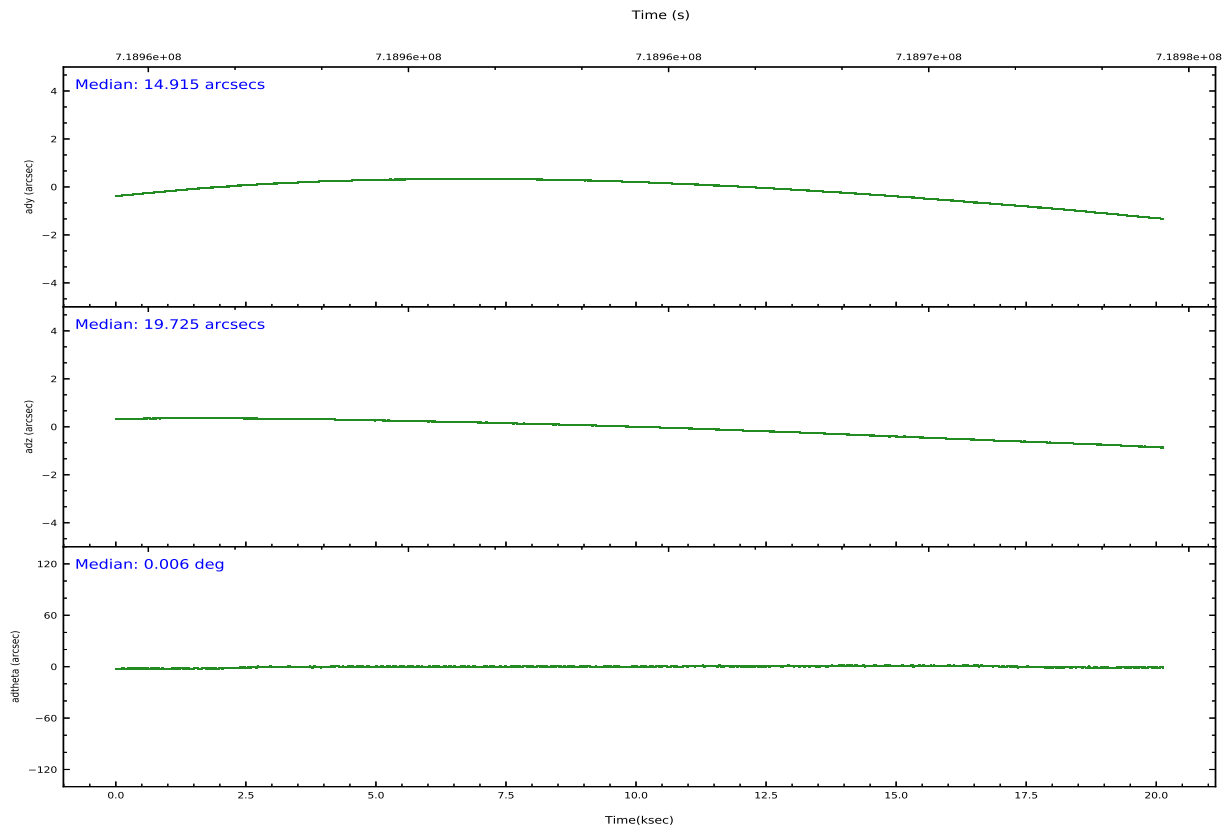
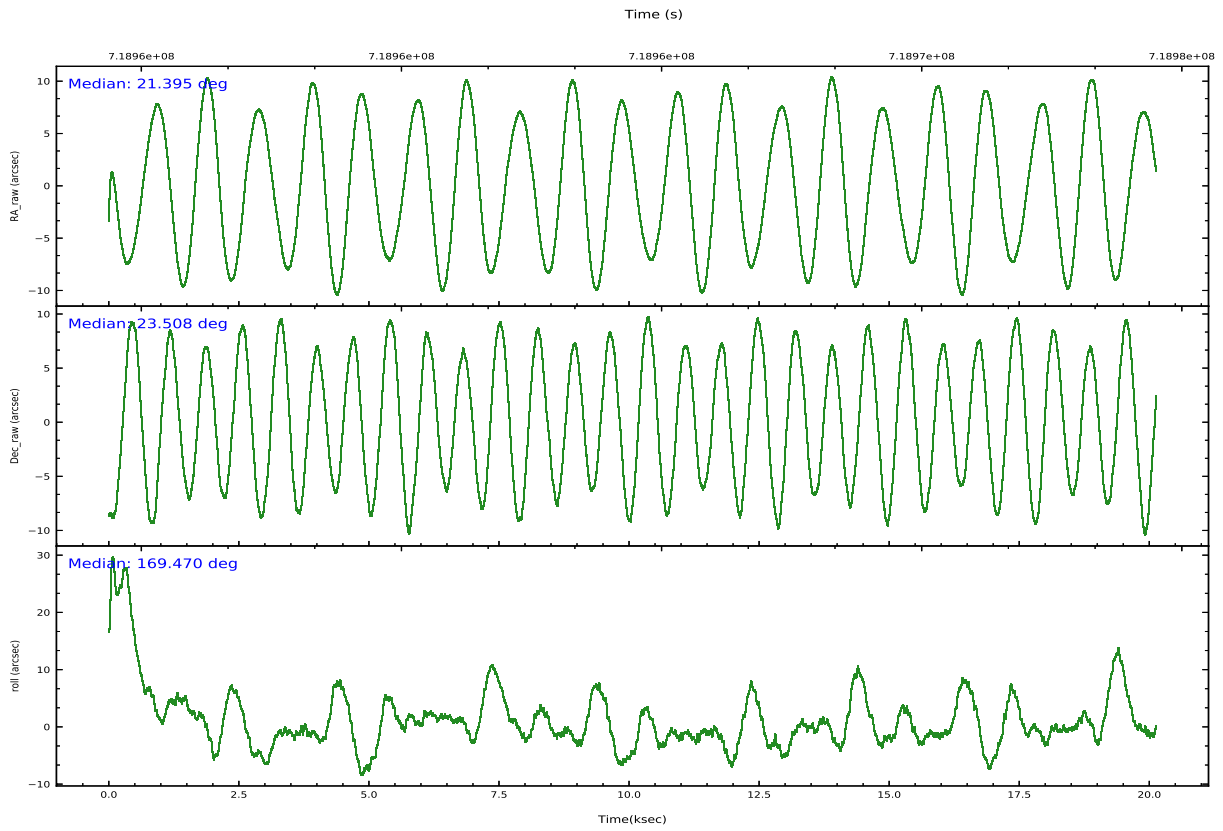
	ccd 7
grade 0 events	7196
	3%
grade 1 events	322
	0%
grade 2 events	18751
	9%
grade 3 events	6433
	3%
grade 4 events	6430
	3%
grade 5 events	18776
	9%
grade 6 events	47081
	24%
grade 7 events	90844
	46%

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	21.423260	21.400910881405	Subarray requested	NONE	NONE
[deg] Pointing Dec	23.517468	23.51267314888	Alternating exposures requested	N	N
[deg] Pointing Roll	169.307210	169.47078095041	[s] Primary exposure time	0.000000	3
[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)	718954506.184000	718952952.46956			
Observation start date	2020-10-13T05:33:57	2020-10-13T05:09:12			
[s] Observation end time (MET)	718974506.184000	718975580.37095			
Observation end date	2020-10-13T11:07:17	2020-10-13T11:26:20			
Read mode	TIMED	TIMED			

2.3 Aspect





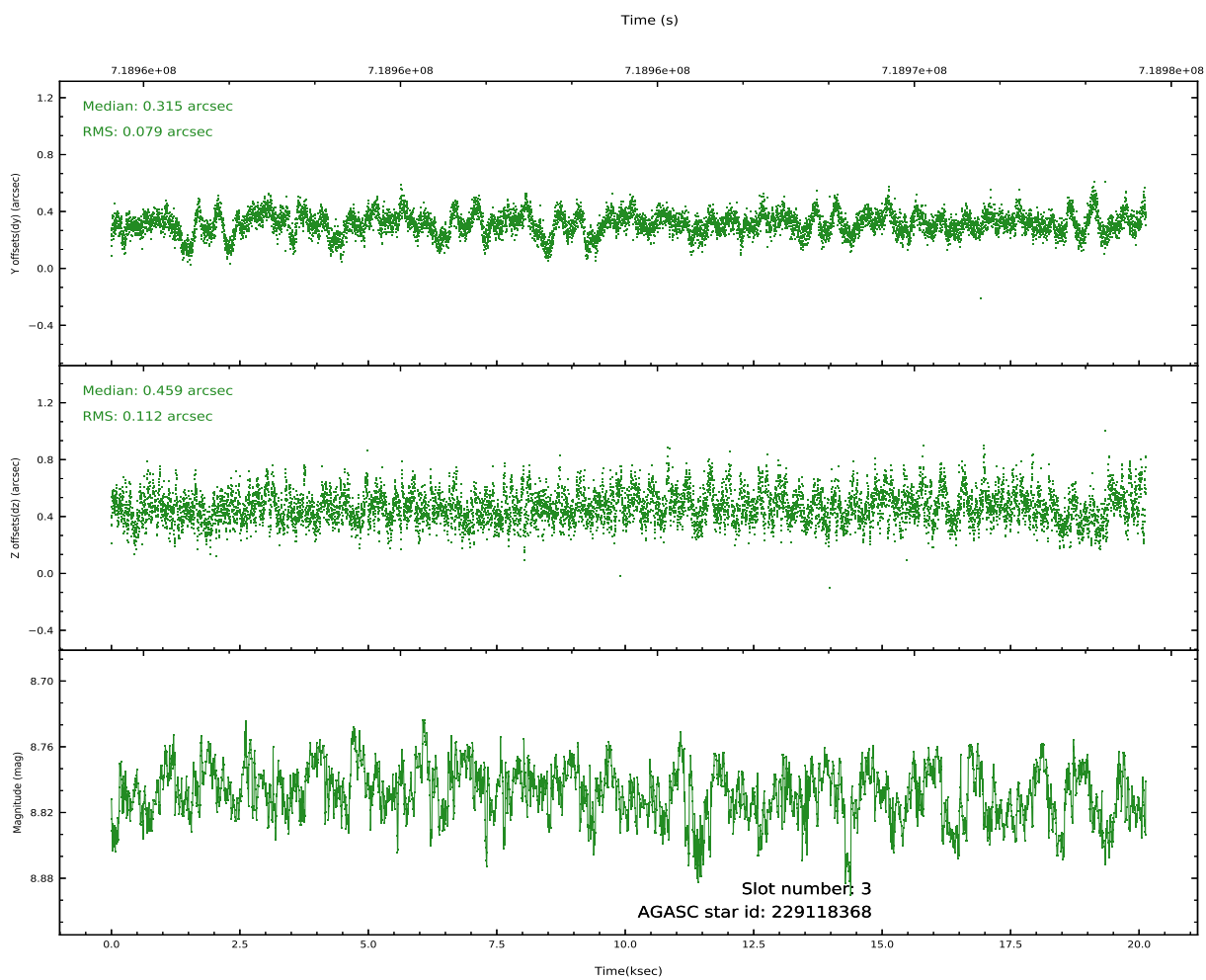
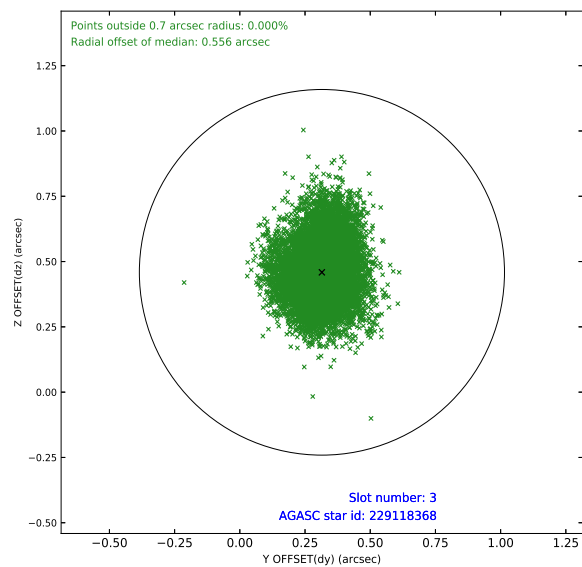
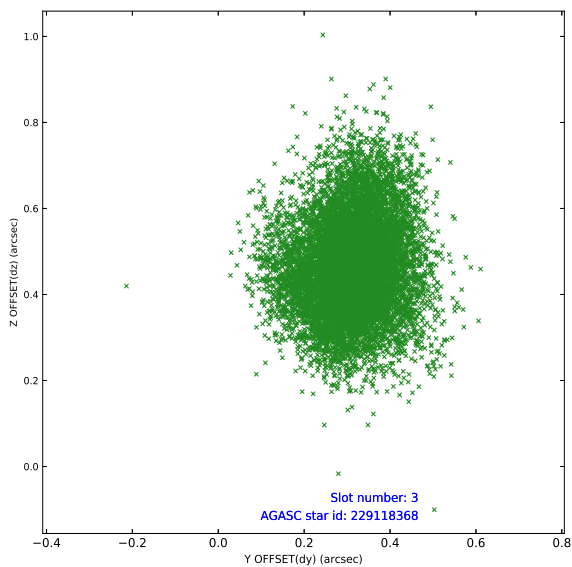
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	4909	1.000	0.193	-0.060	0.017	0.036	0.000000	0.000000	-767.86	-1741
1	FID		ACIS-S-4	7.18	4911	1.000	0.140	-0.076	0.012	0.020	0.000000	0.000000	2145.62	166
2	FID		ACIS-S-5	7.15	4911	1.000	-0.361	0.144	0.020	0.045	0.000000	0.000000	-1820.68	161
3	GUIDE	used	229118368	8.80	9809	1.000	0.315	0.459	0.146	0.241	21.993016	24.065571	-1473.31	-2289
4	GUIDE	used	229121584	6.42	9820	1.000	-0.159	-0.359	0.128	0.208	21.398654	23.511516	75.19	35
5	GUIDE	used	229122144	9.03	9810	1.000	-0.086	-0.172	0.180	0.296	20.883555	22.957087	1384.23	2310
6	GUIDE	used	229124544	8.27	9817	1.000	0.041	0.128	0.135	0.232	21.698306	23.310227	-1031.20	563
7	GUIDE	used	229126016	7.15	9821	1.000	-0.103	-0.055	0.129	0.216	21.457307	23.107423	-385.23	1429

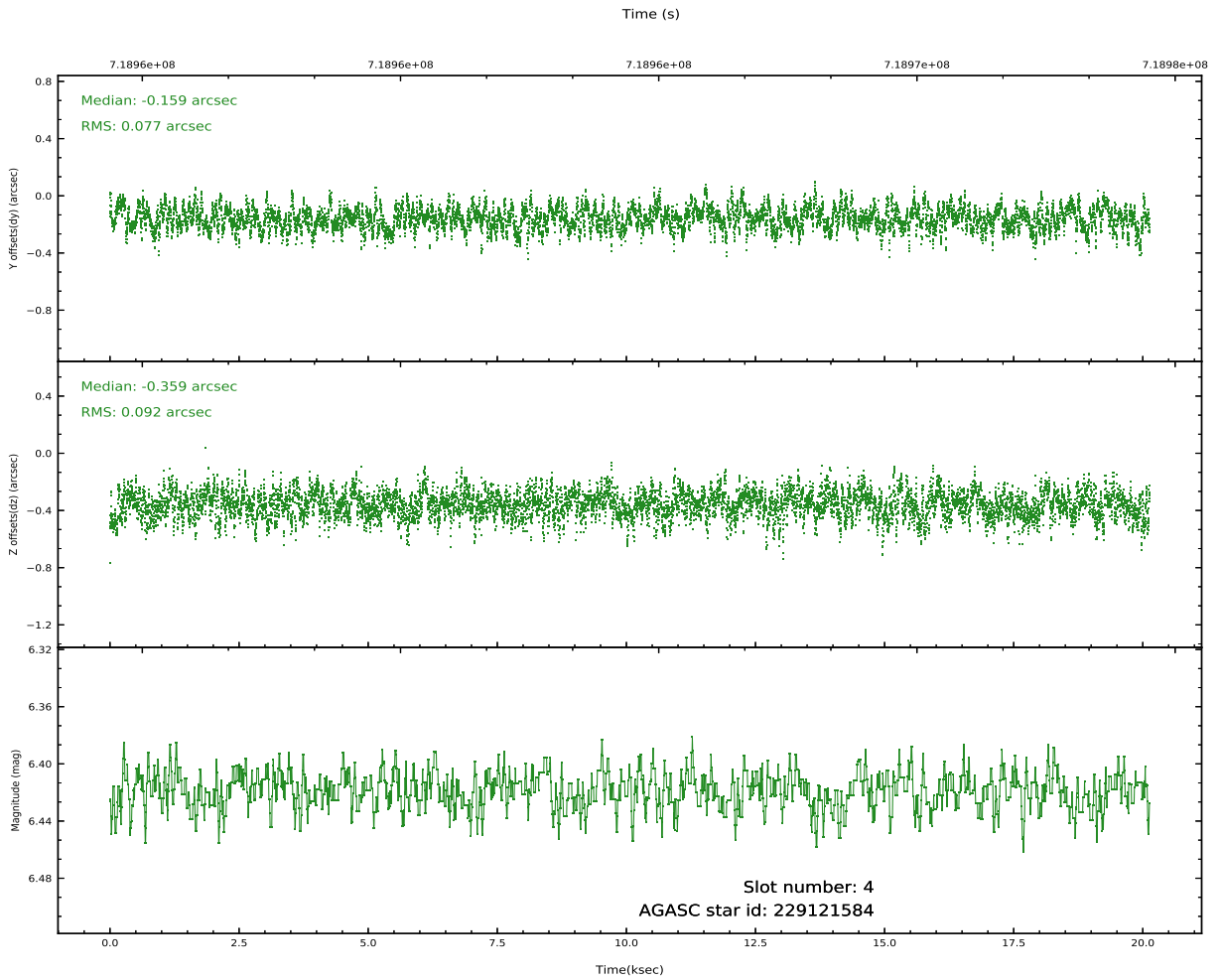
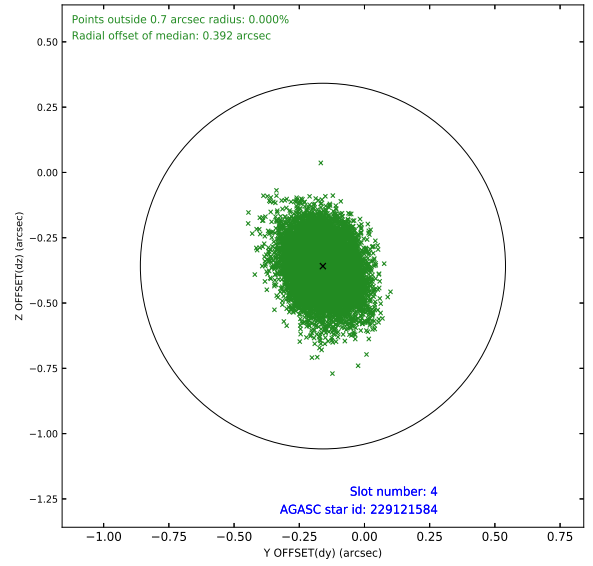
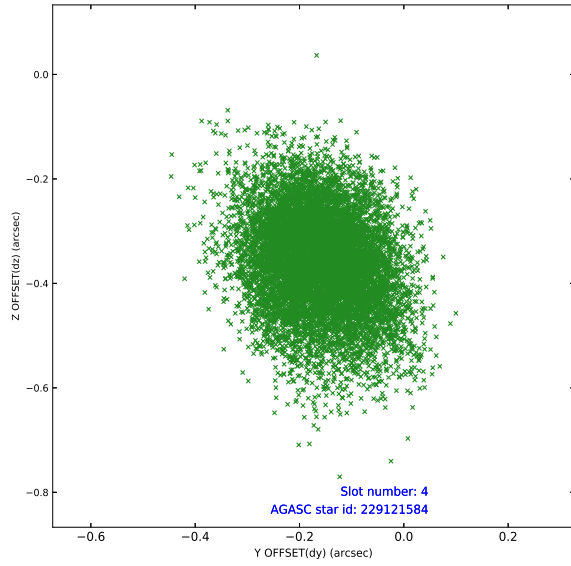
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2.4 Star Slots

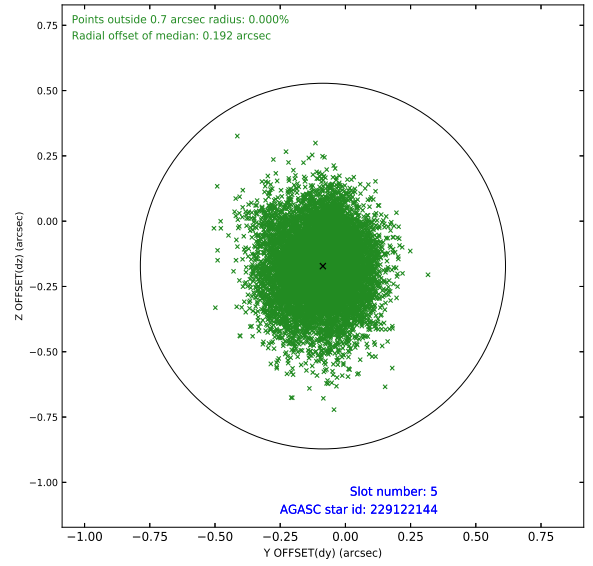
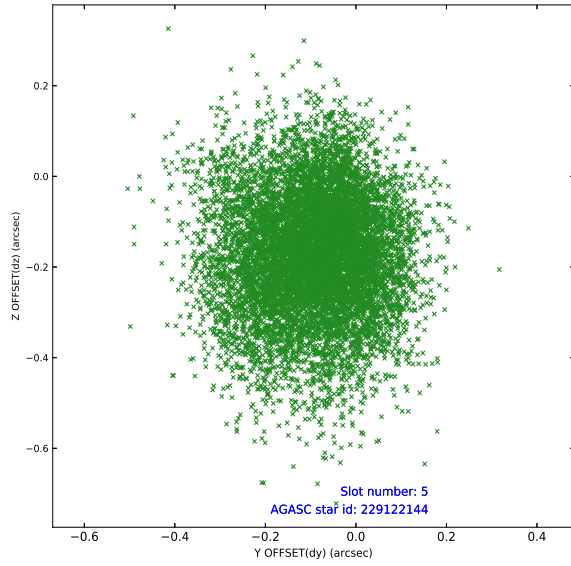
2.4.1 Slot 3



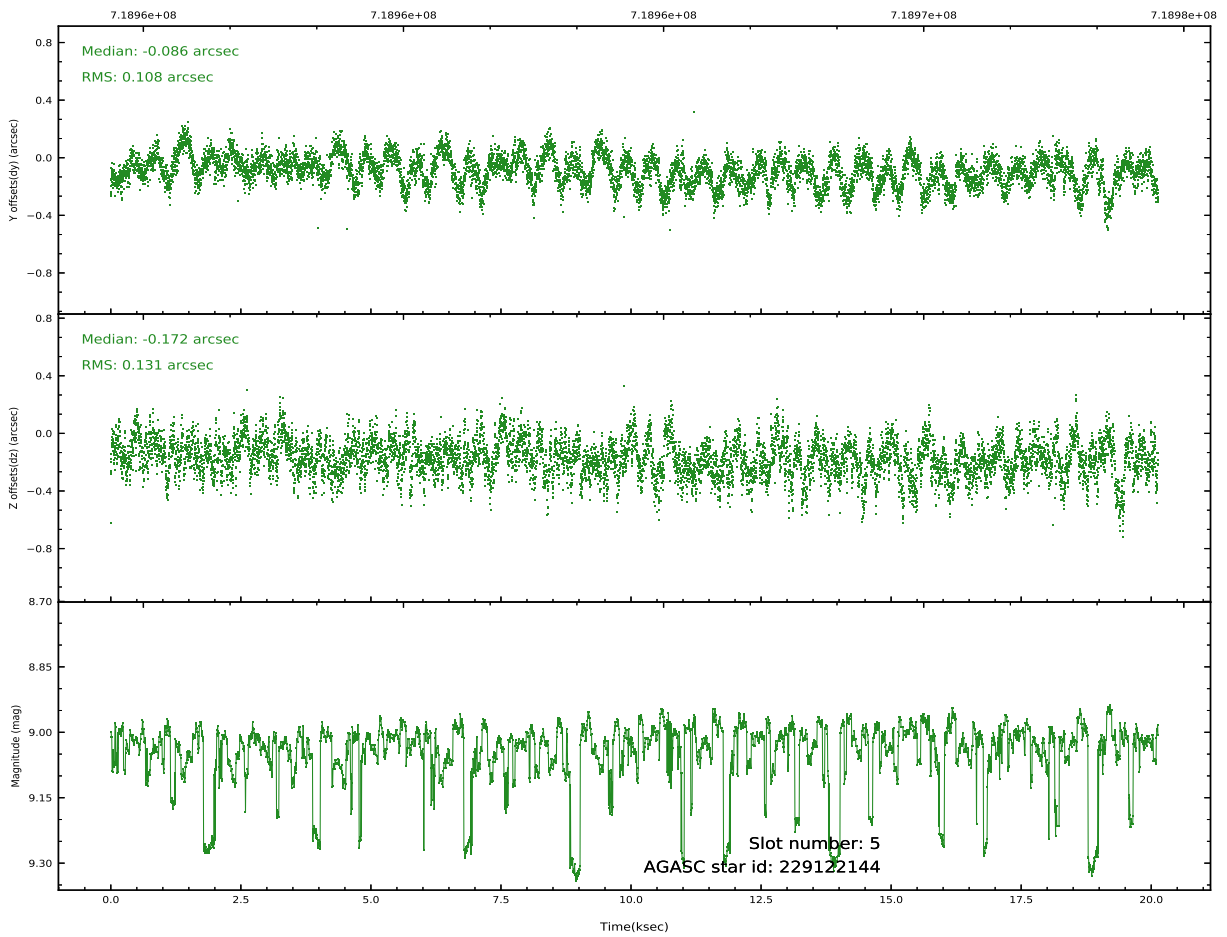
2.4.2 Slot 4



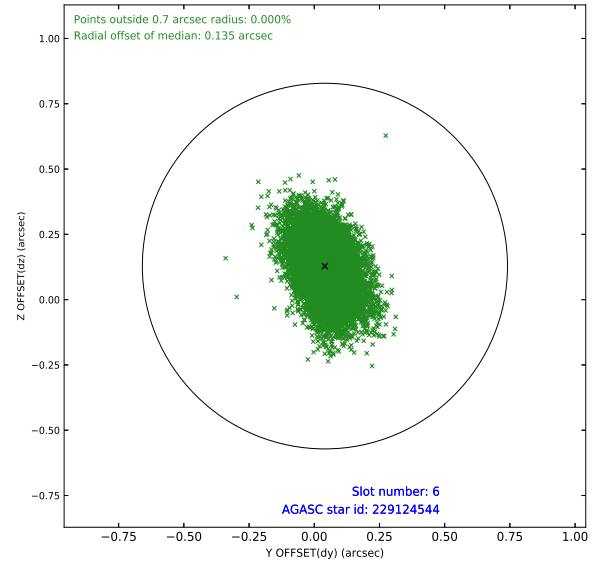
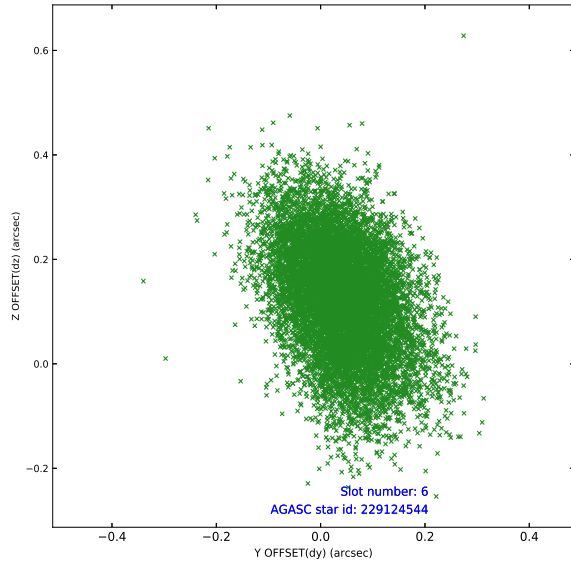
2.4.3 Slot 5



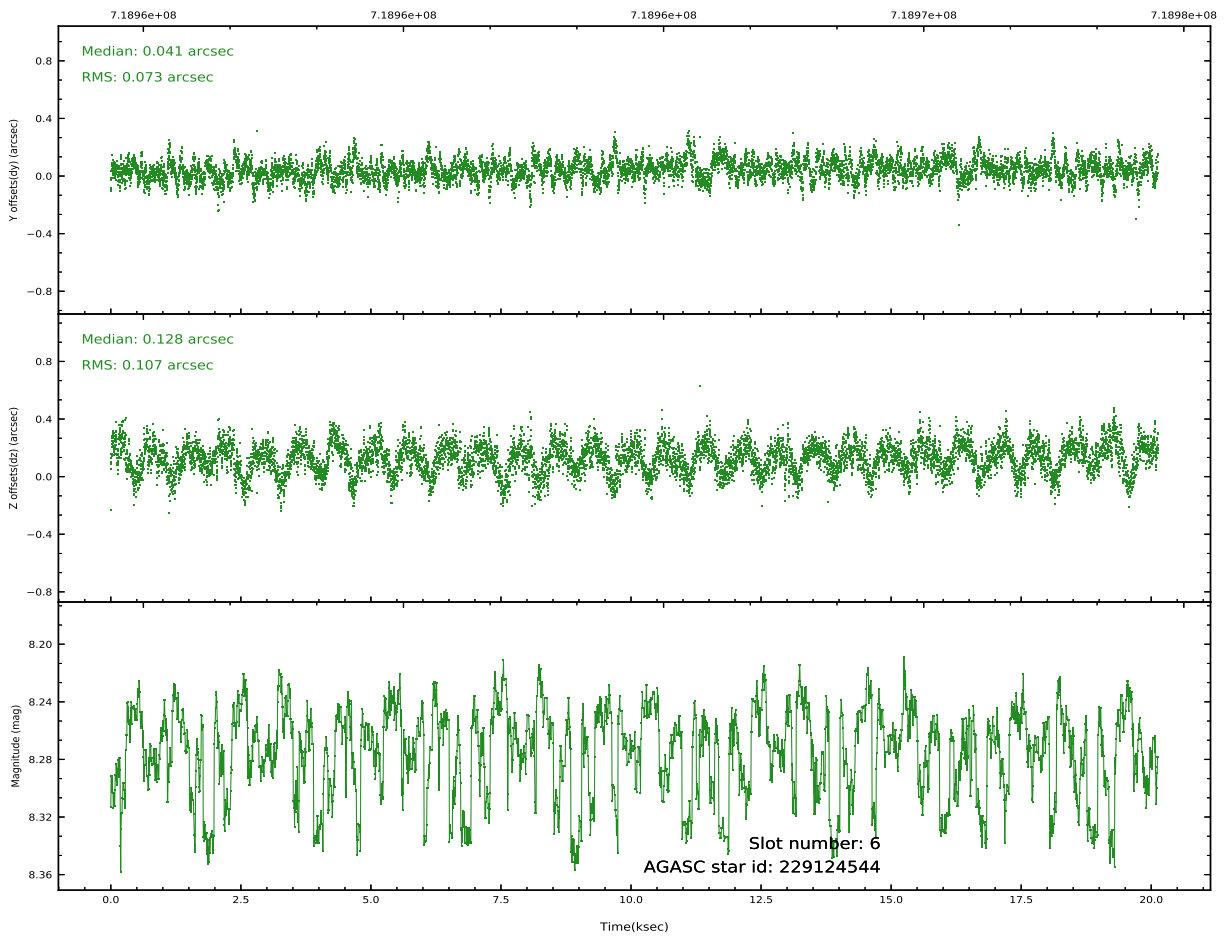
Time (s)



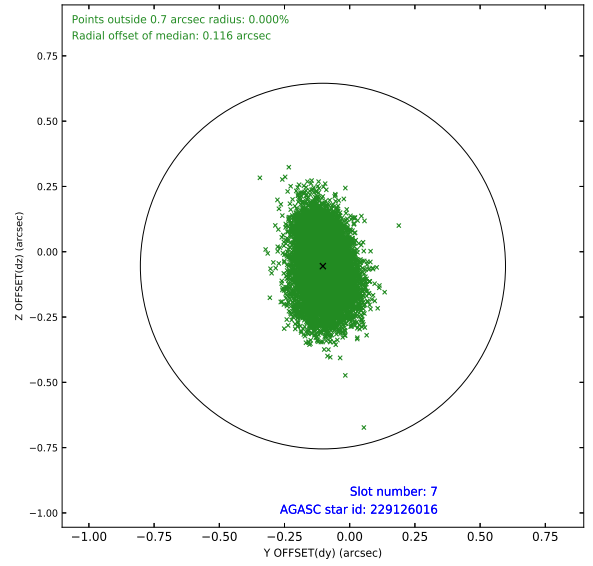
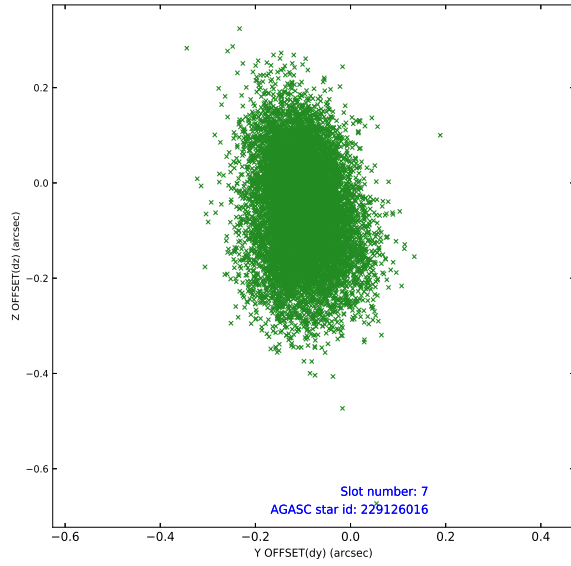
2.4.4 Slot 6



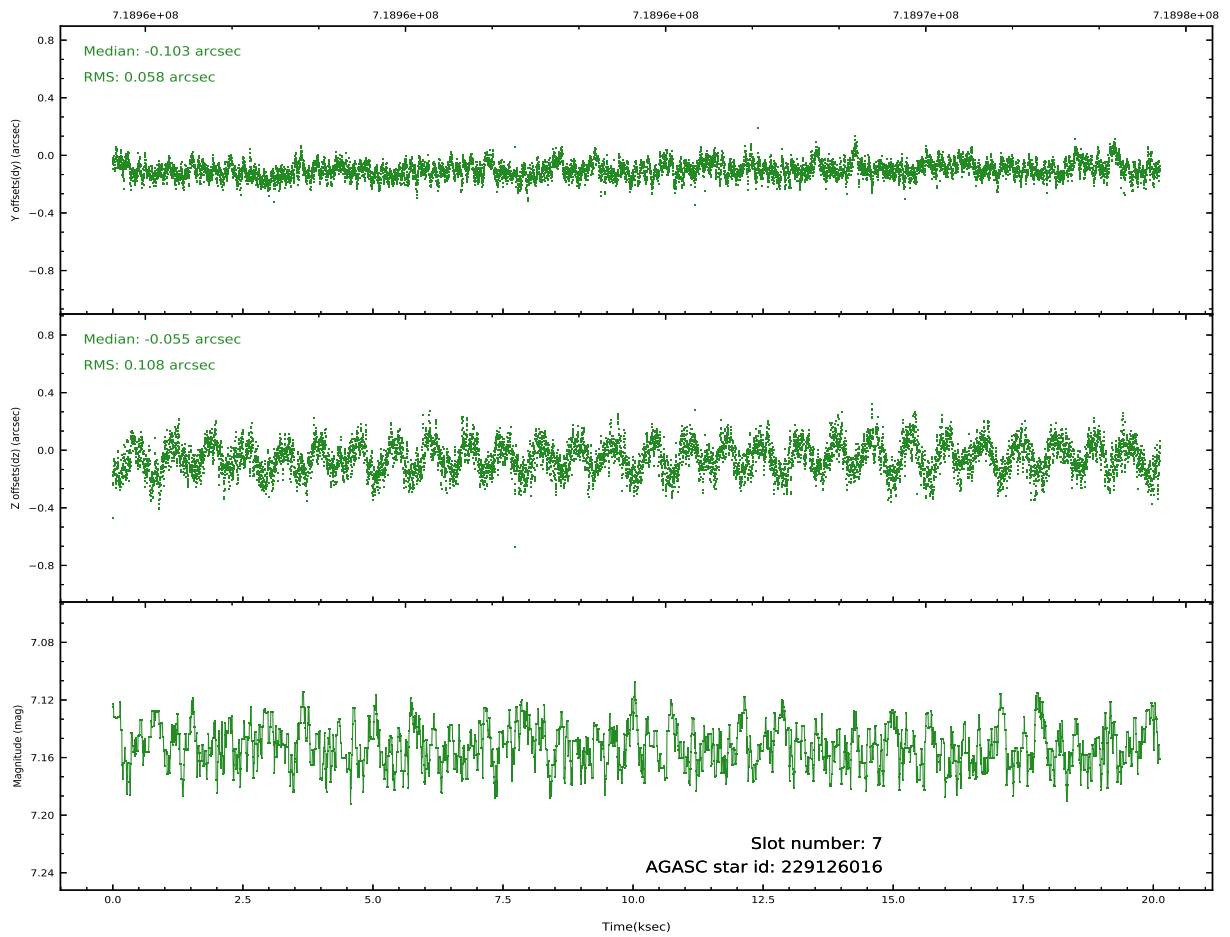
Time (s)



2.4.5 Slot 7

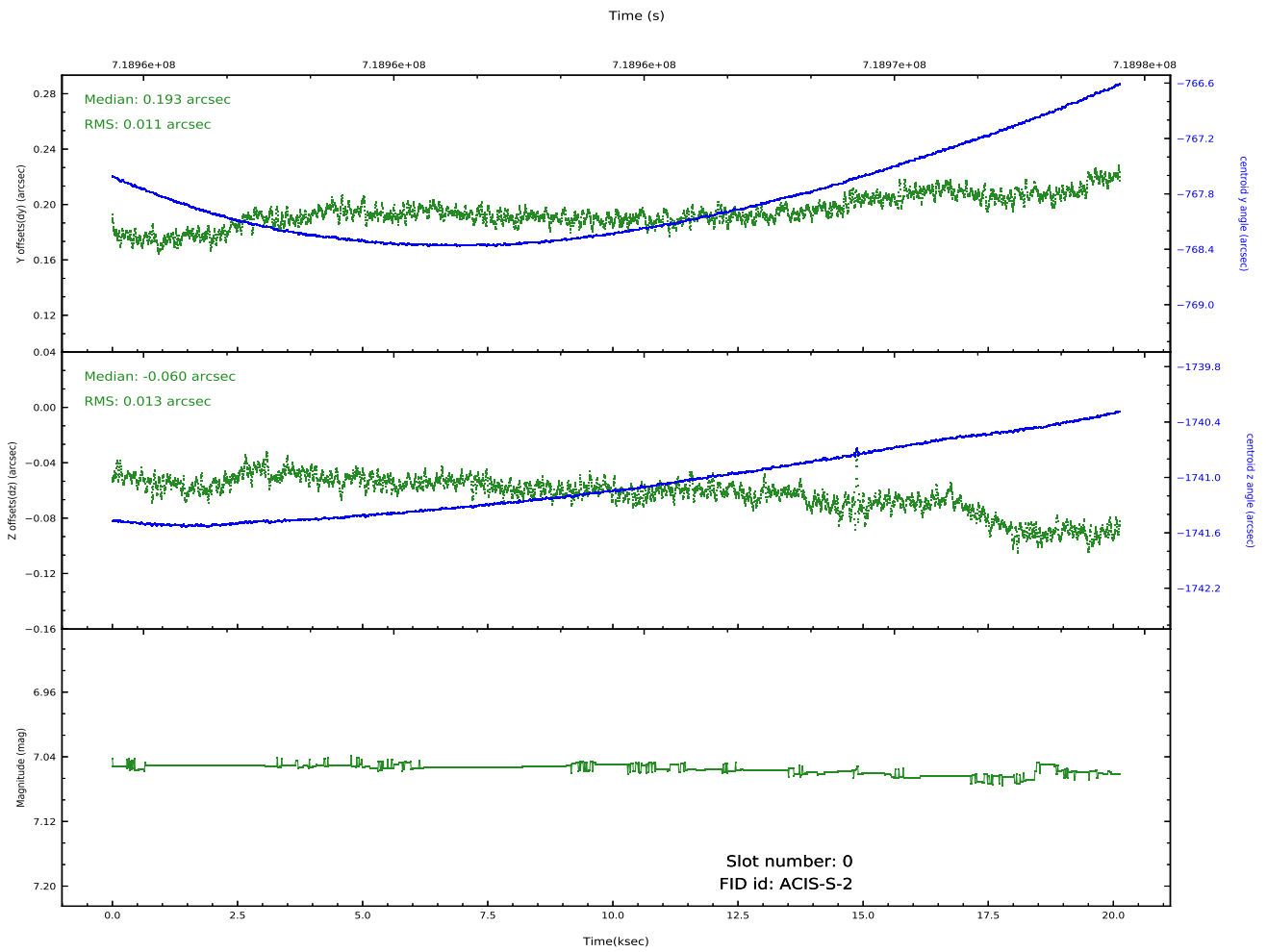
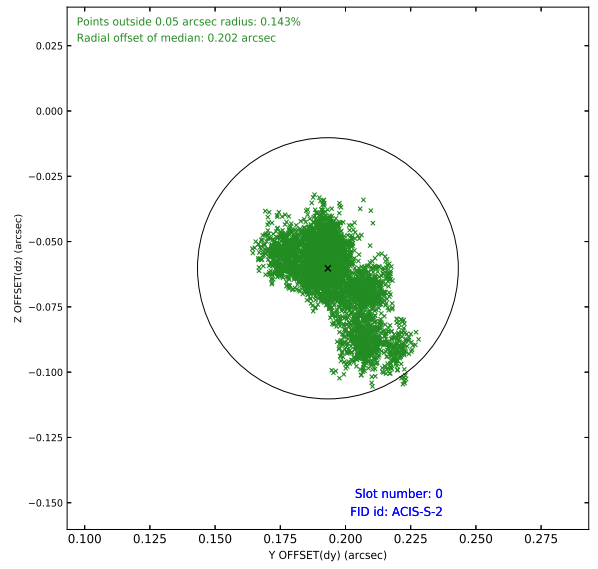
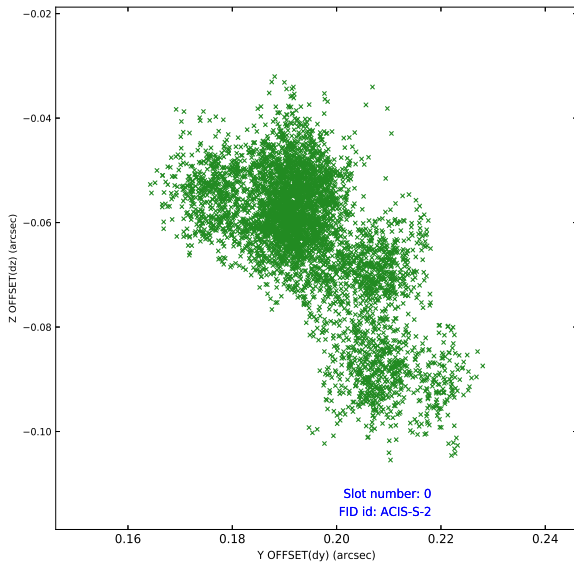


Time (s)

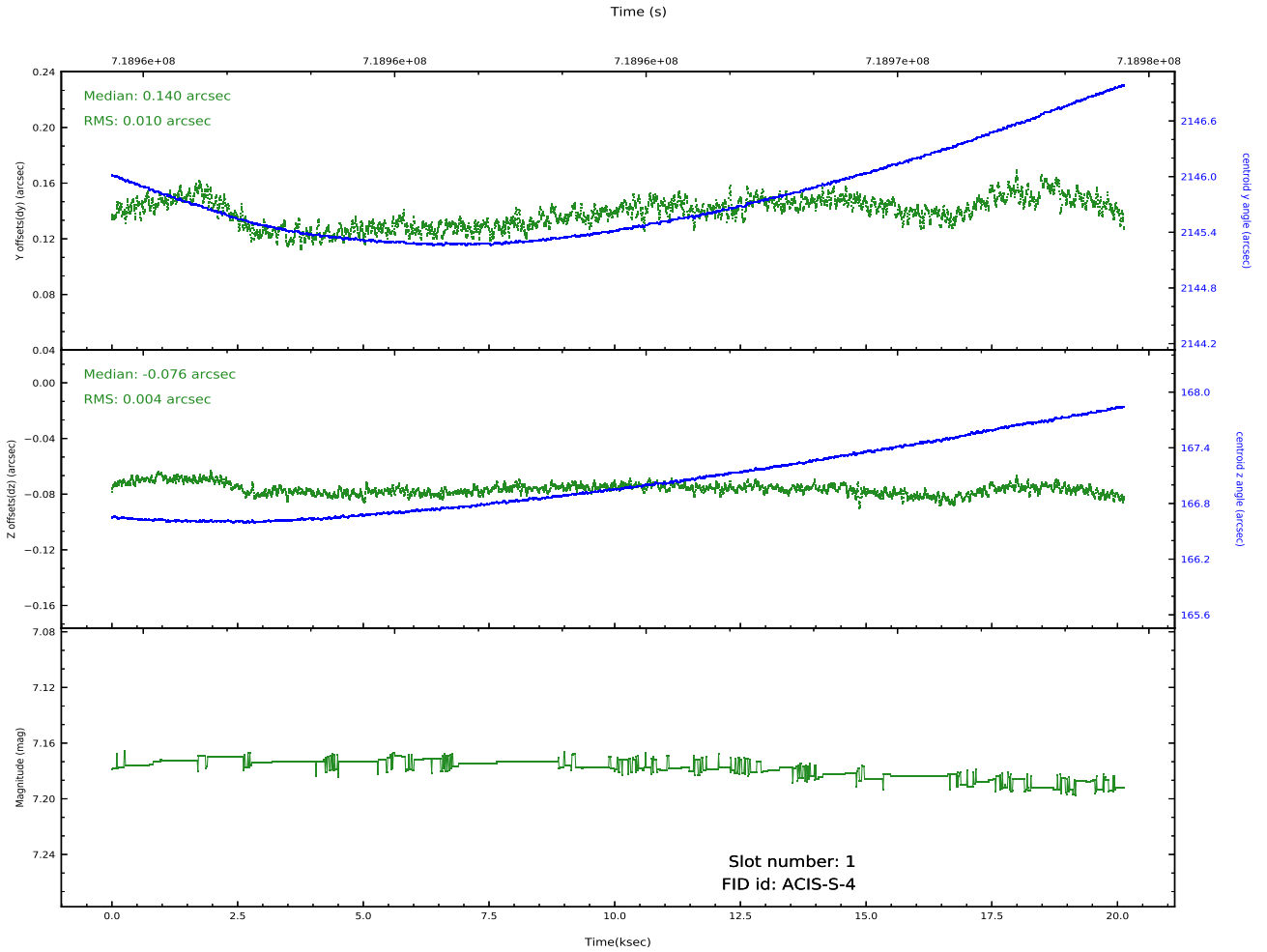
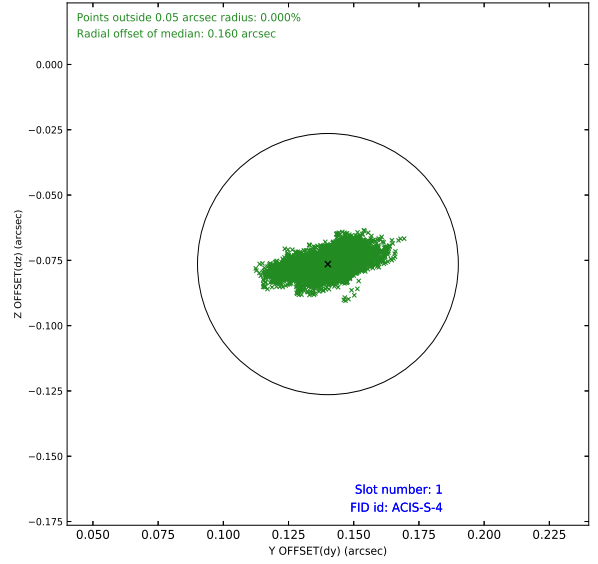
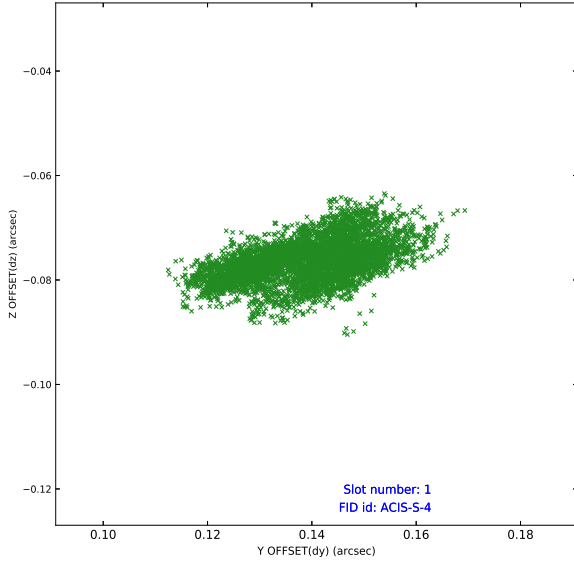


2.5 FID Slots

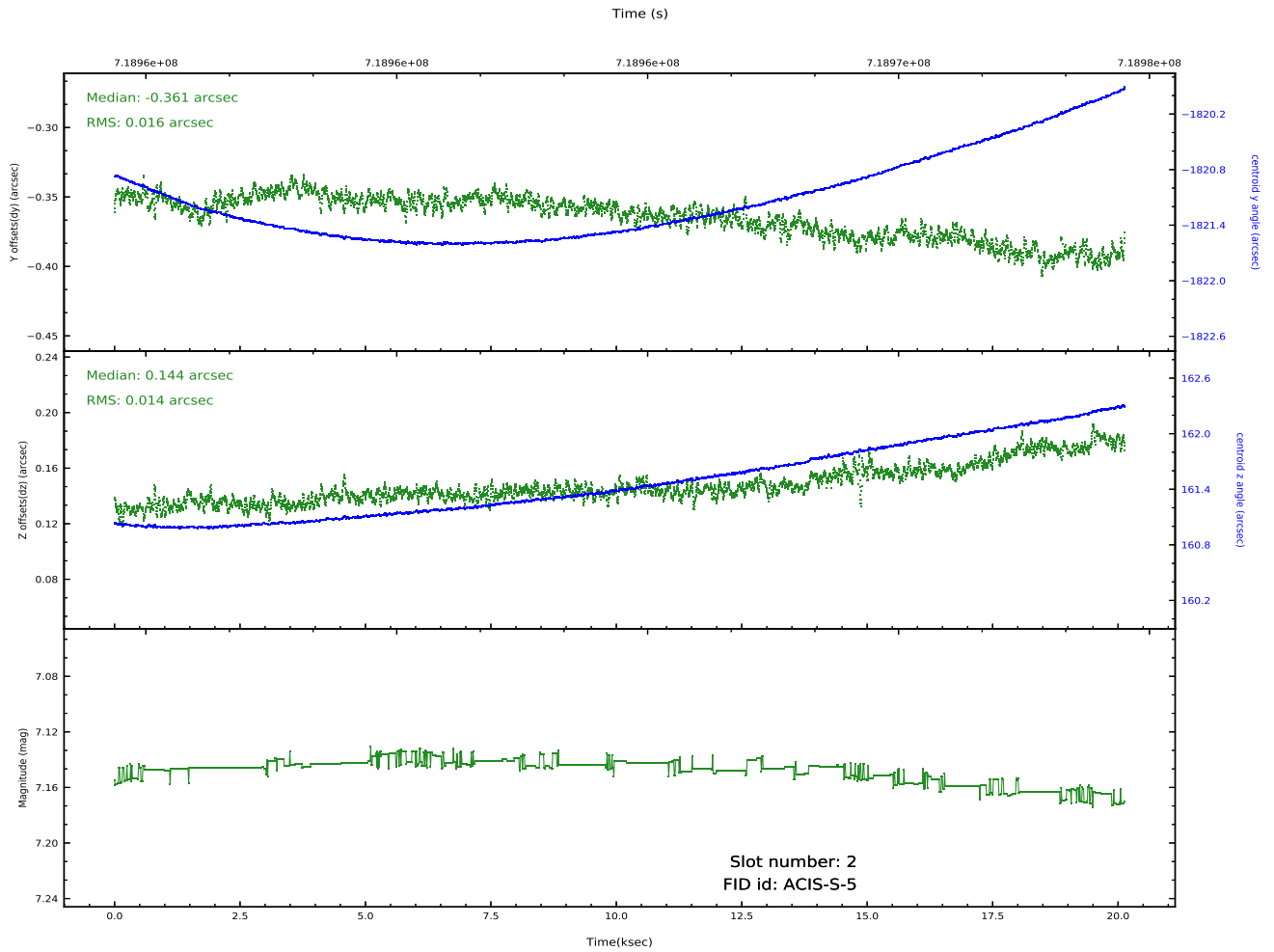
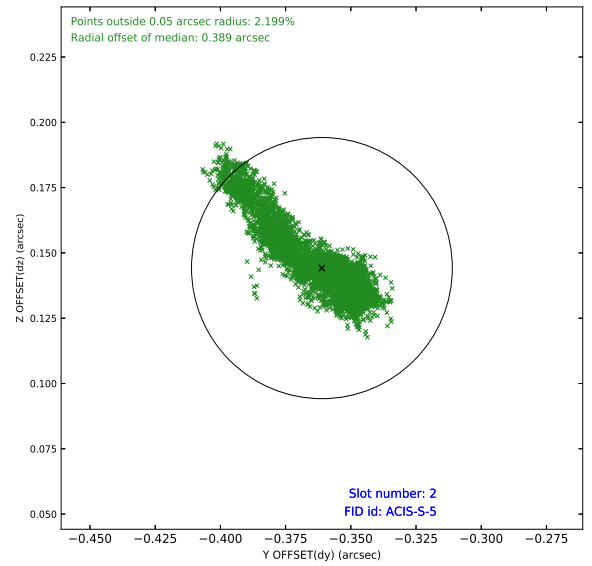
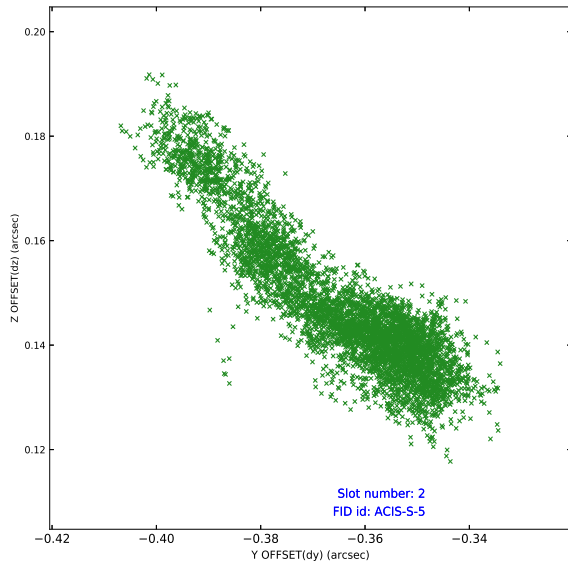
2.5.1 Slot 0



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	19.910703894854

A.2 Comments