

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20366 - L2 Version 2
Chandra X-Ray Center

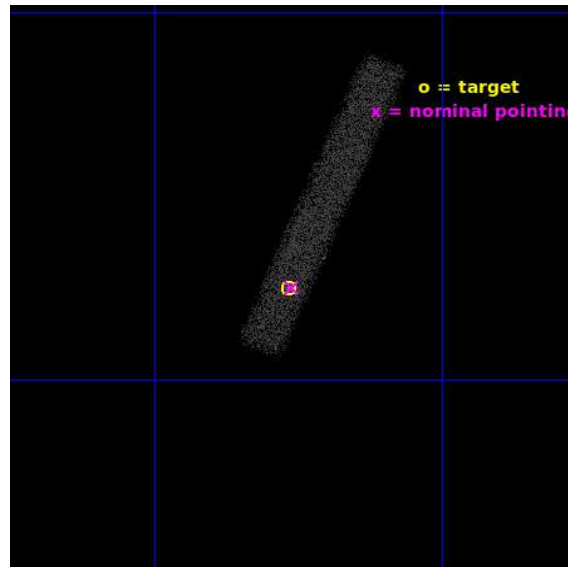
L2 Processing Date : Oct 24 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

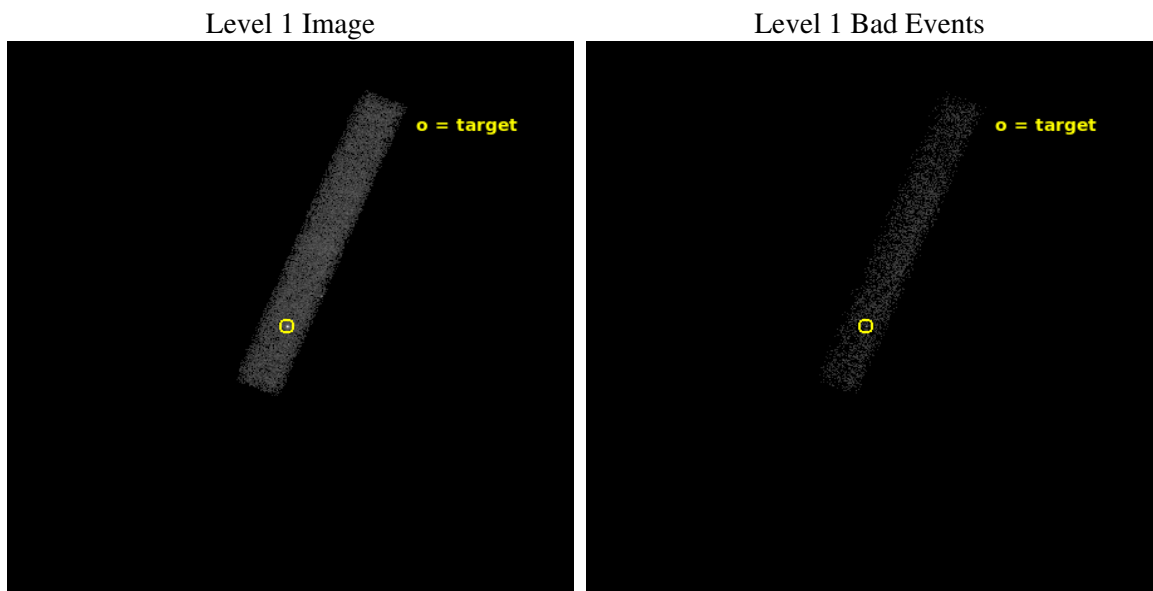
seq_num	703471	Sequence number
obs_id	20366	Observation id
title	Catching a Changing Look Quasar as it undergoes significant changes in accretion rate	Proposal title
observer	Mirko Krumpe	Principal investigator
object	Mrk1018	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.566667	Observer's specified target RA [deg]
dec_targ	-0.291389	Observer's specified target Dec [deg]
ra_nom	31.56536064926	Nominal RA [deg]
dec_nom	-0.29132634973542	Nominal Dec [deg]
roll_nom	292.95577841583	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20069.198803663	Sum of GTIs [s]
livetime	18201.703975751	Livetime [s]
ontime7	20069.198803663	Sum of GTIs [s]
l2events	15649	Number of level 2 events



2 OBI

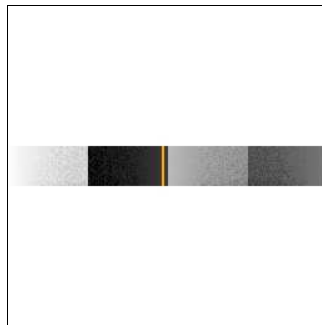
2.1 OBI

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	20069.198803663	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	20069.198803663	Sum of GTIs [s]
date	2020-10-24T06:22:45	Date and time of file creation	l1events	29197	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

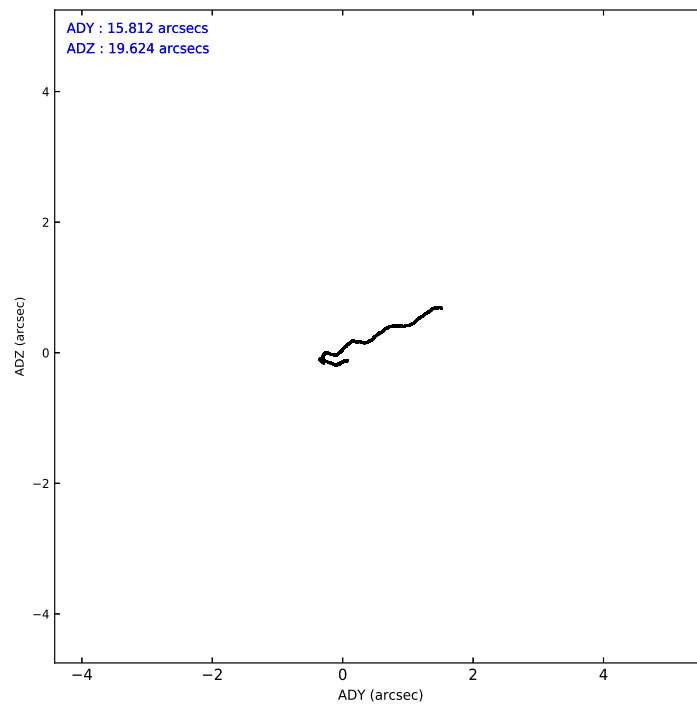
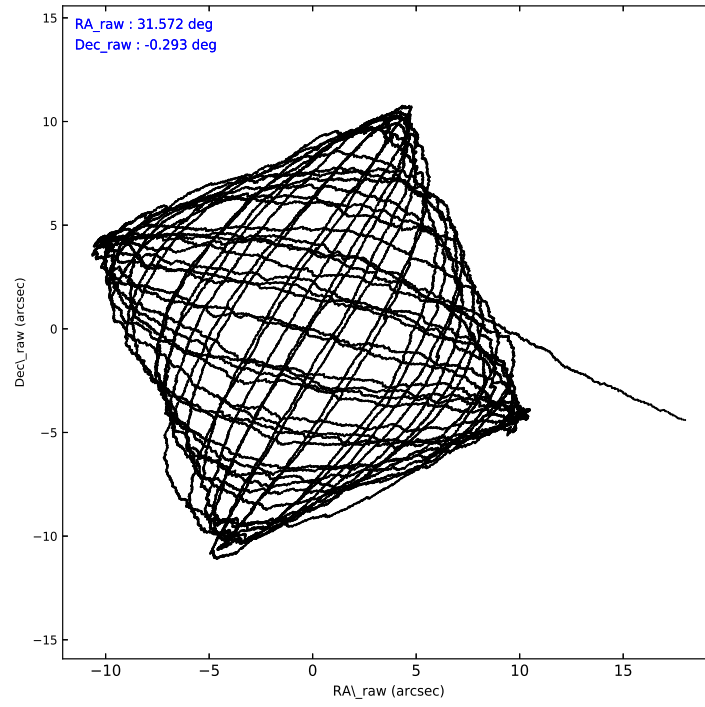
	ccd 7
level 1 events	29197
rejected events	12970
rejected %	44%

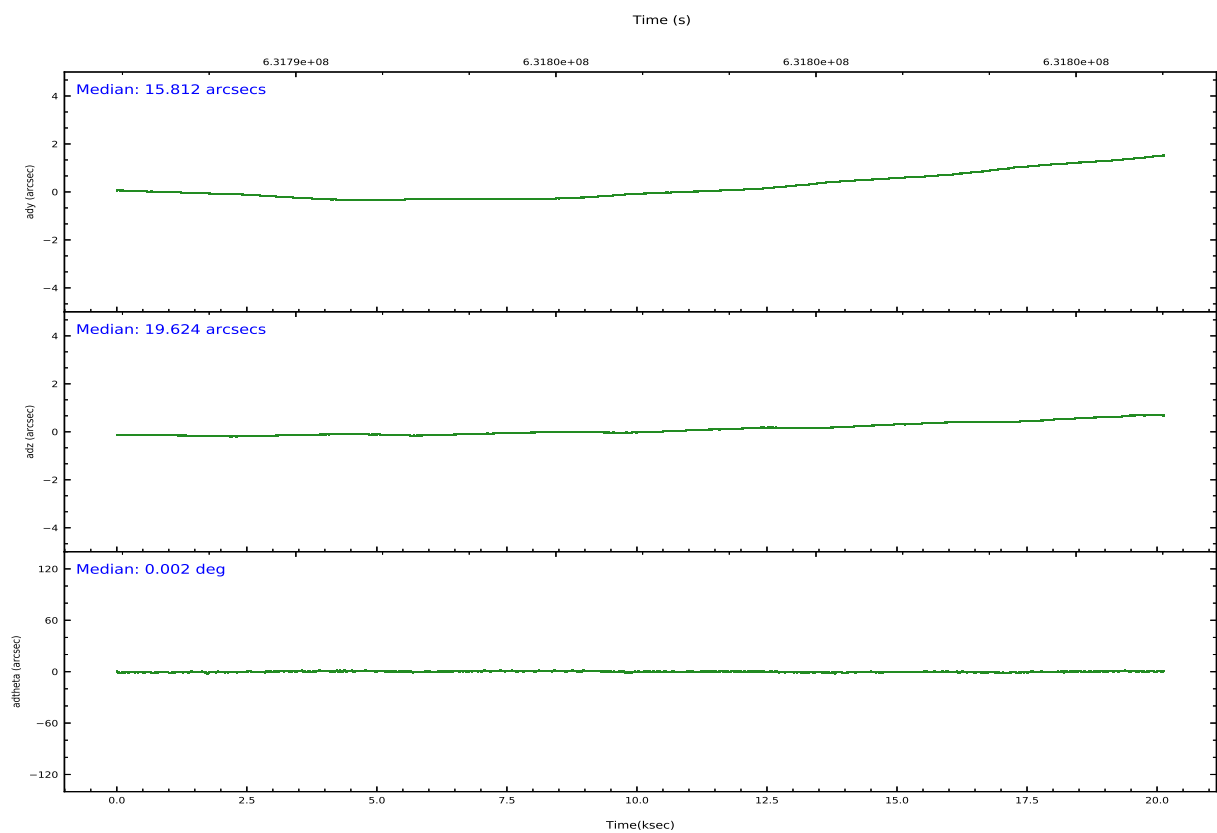
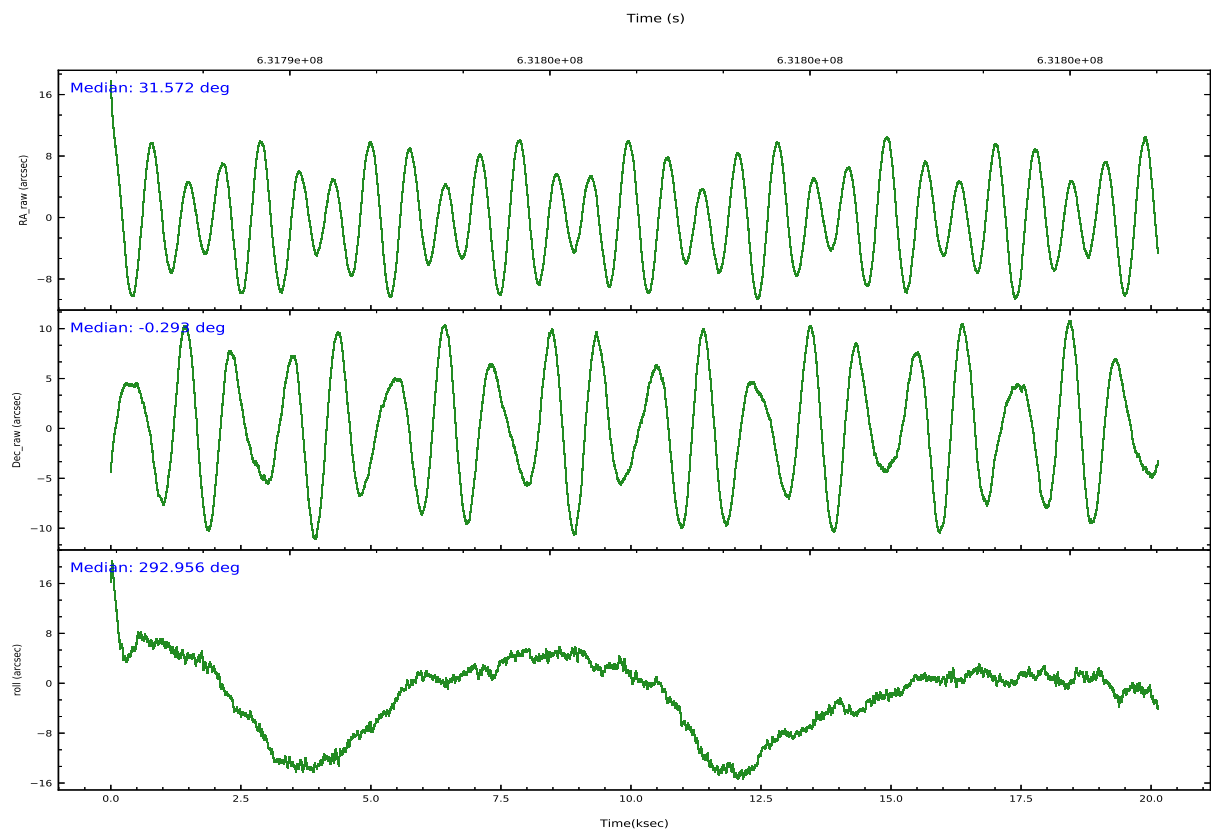
	ccd 7
grade 0 events	2260
	7%
grade 1 events	49
	0%
grade 2 events	3230
	11%
grade 3 events	2143
	7%
grade 4 events	1993
	6%
grade 5 events	2635
	9%
grade 6 events	6601
	22%
grade 7 events	10286
	35%

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	31.550228	31.56536064926	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-0.277150	-0.29132634973542	Subarray start row	449	449
[deg] Pointing Roll	292.803992	292.95577841583	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)	631786694.184000	631785744.03931			
Observation start date	2018-01-08T08:17:05	2018-01-08T08:02:24			
[s] Observation end time (MET)	631806694.184000	631807481.72809			
Observation end date	2018-01-08T13:50:25	2018-01-08T14:04:41			
Read mode	TIMED	TIMED			

2.3 Aspect



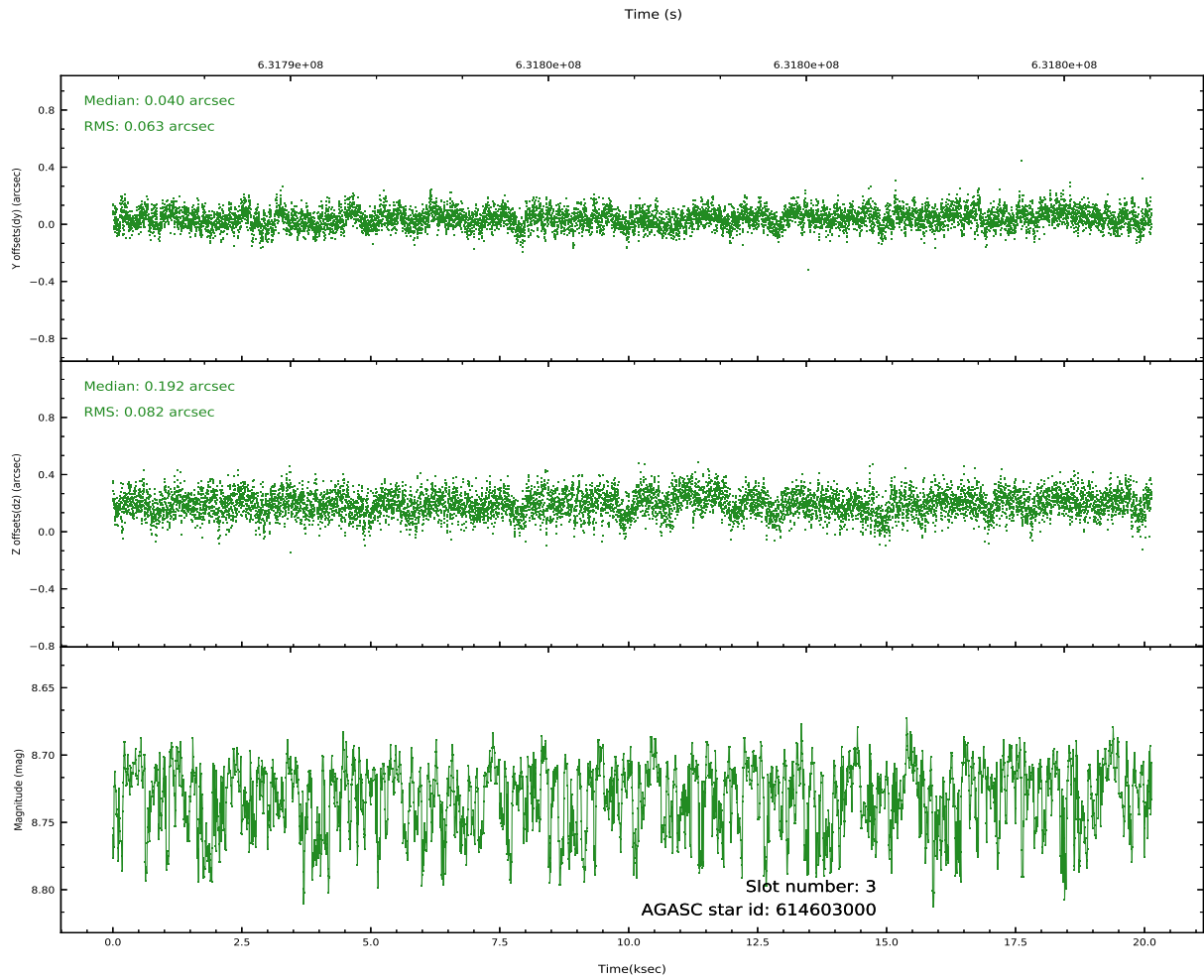
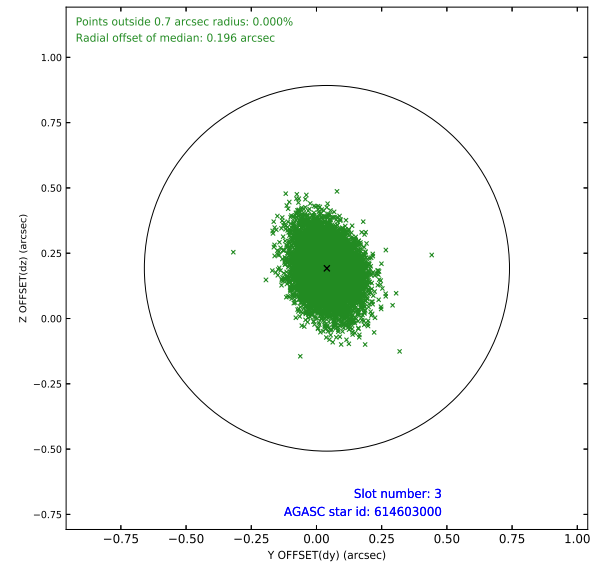
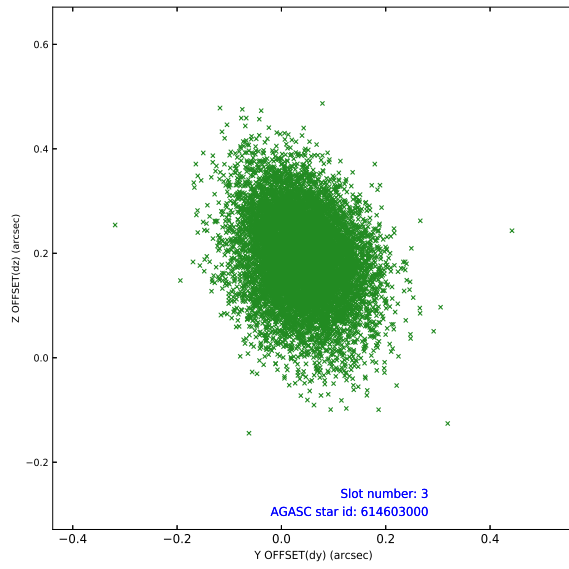


Slot Statistics

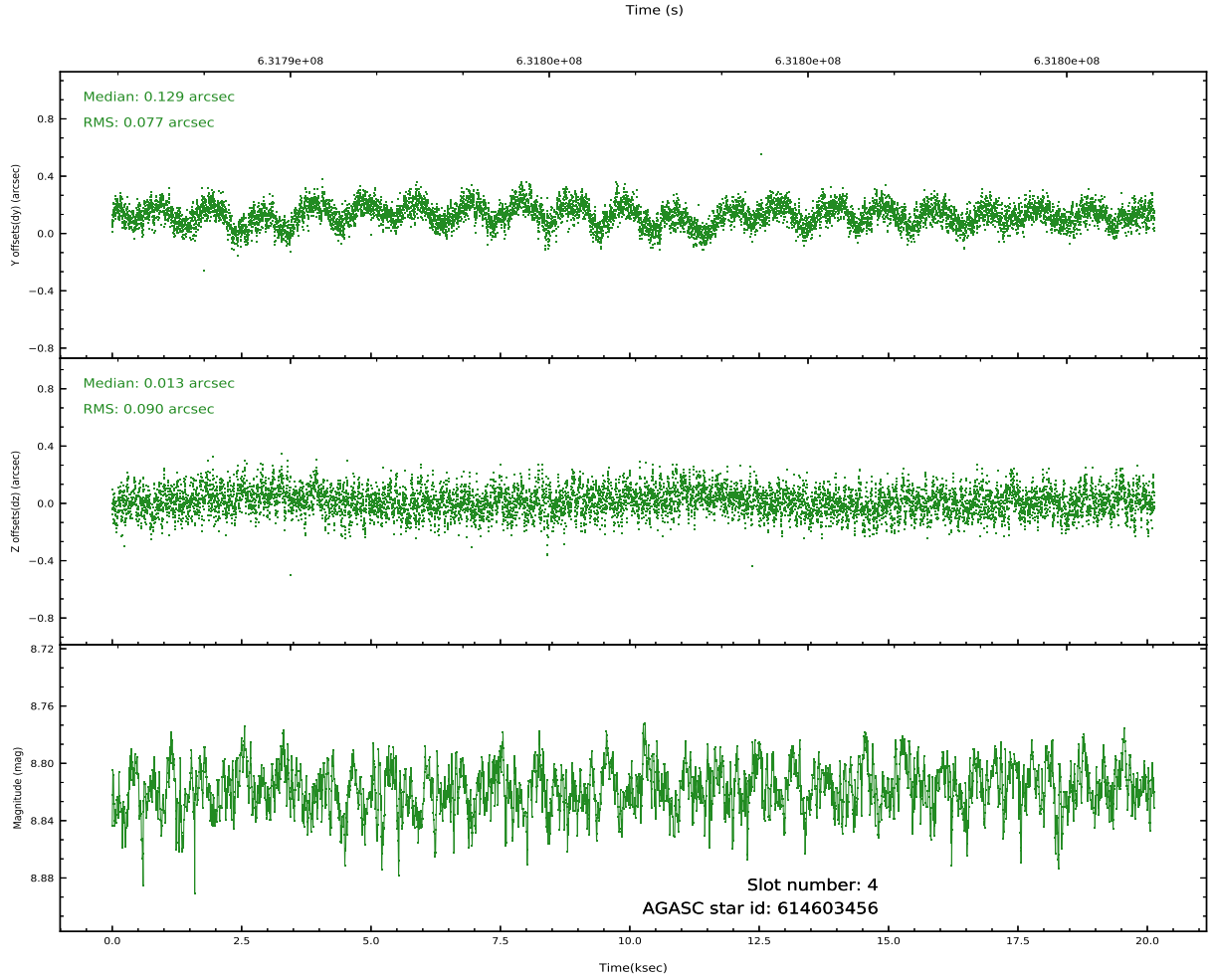
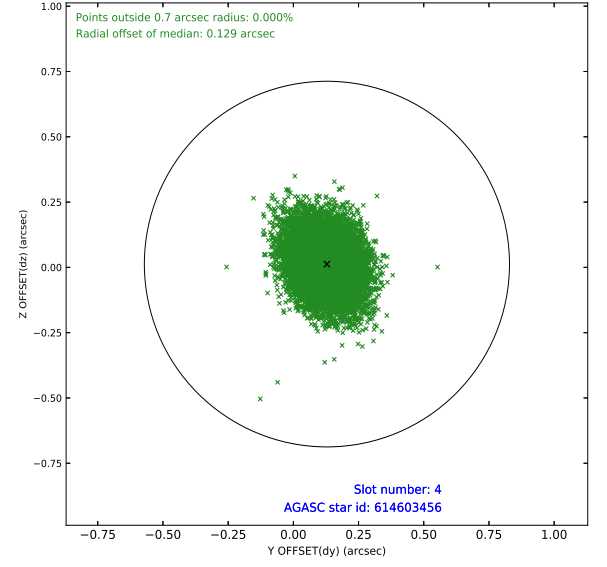
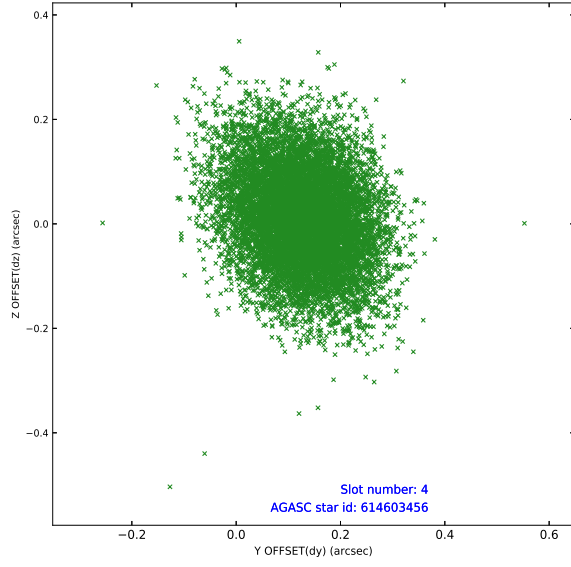
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	4912	1.000	0.069	-0.073	0.013	0.032	0.000000	0.000000	-769.12	-1741
1	FID		ACIS-S-4	7.15	4912	1.000	0.161	-0.014	0.013	0.032	0.000000	0.000000	2144.34	166
2	FID		ACIS-S-5	7.13	4911	1.000	-0.264	0.096	0.011	0.019	0.000000	0.000000	-1821.88	161
3	GUIDE	used	614603000	8.73	9820	1.000	0.040	0.192	0.108	0.182	31.292832	-0.000879	-1275.25	-468
4	GUIDE	used	614603456	8.82	9816	1.000	0.129	0.013	0.126	0.206	30.926579	-0.024024	-1709.86	-1716
5	GUIDE	used	614605504	7.25	9821	1.000	-0.120	-0.004	0.112	0.200	32.113697	-0.419301	1257.69	1671
6	GUIDE	used	614606448	6.97	9821	1.000	0.105	-0.143	0.114	0.200	31.892805	-0.617418	1611.64	655
7	GUIDE	used	4857448	8.68	9751	1.000	-0.157	-0.052	0.163	0.259	31.329717	0.322843	-2298.17	105

2.4 Star Slots

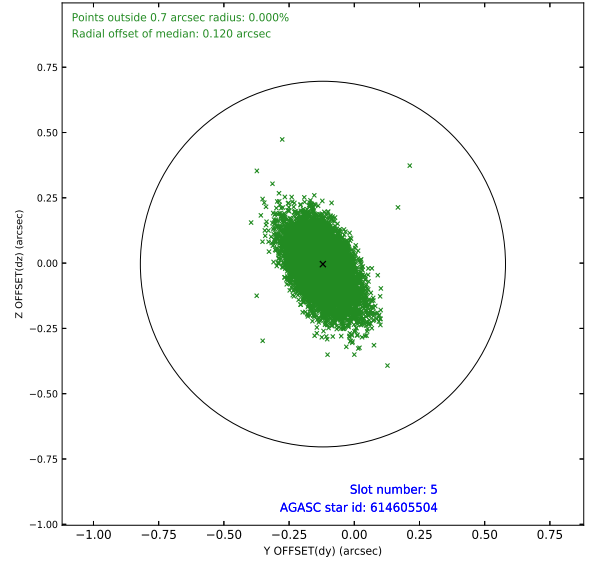
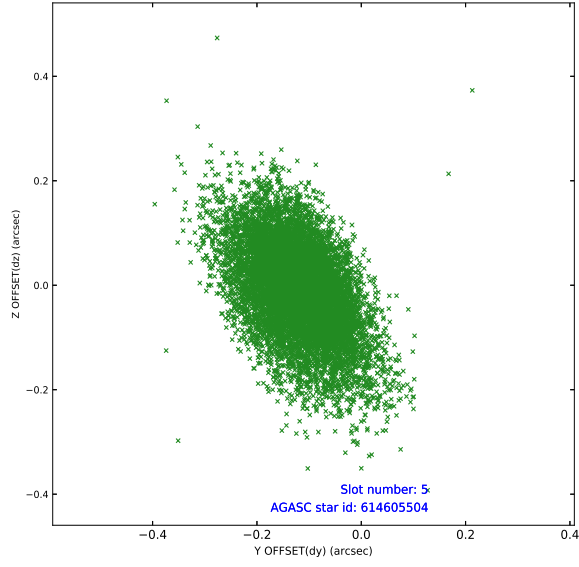
2.4.1 Slot 3



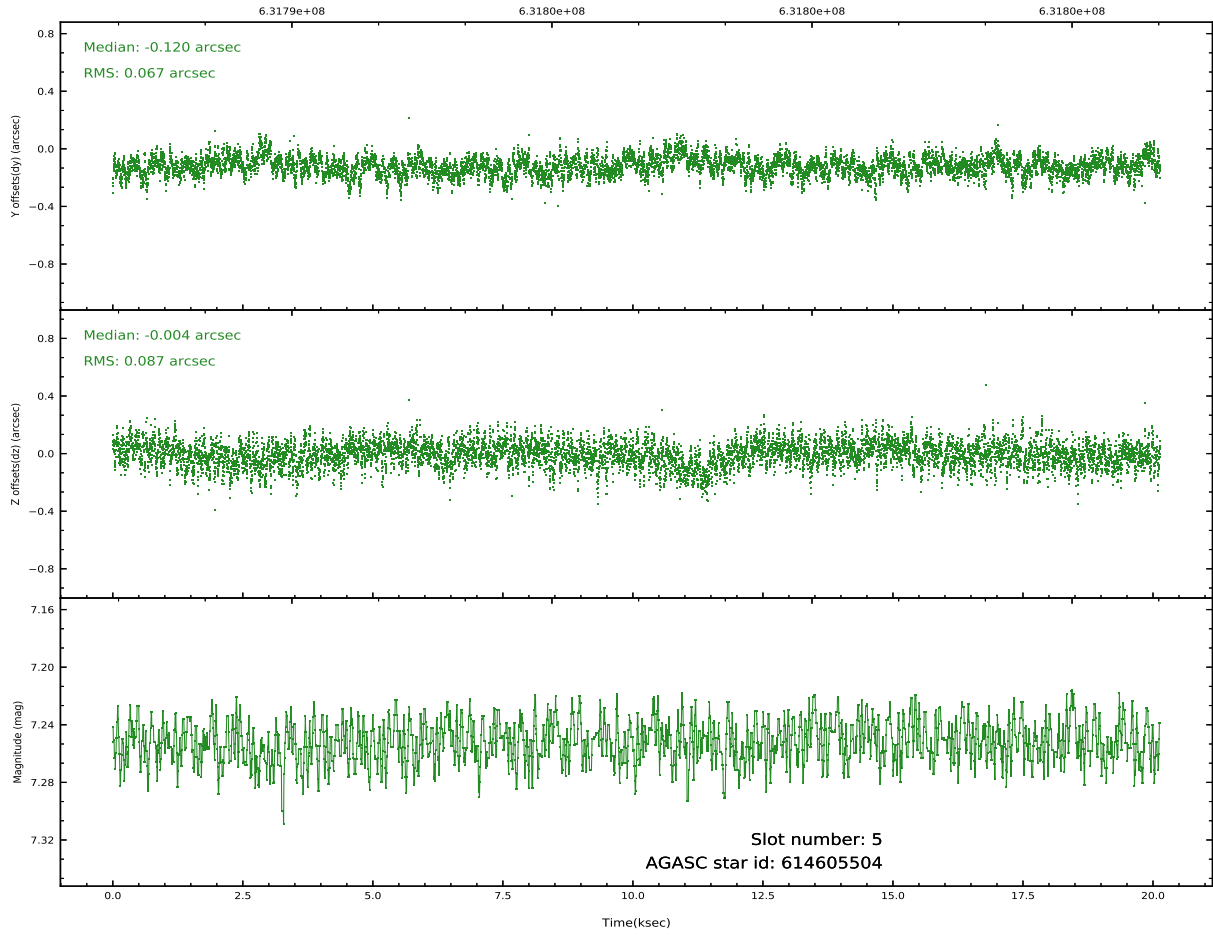
2.4.2 Slot 4



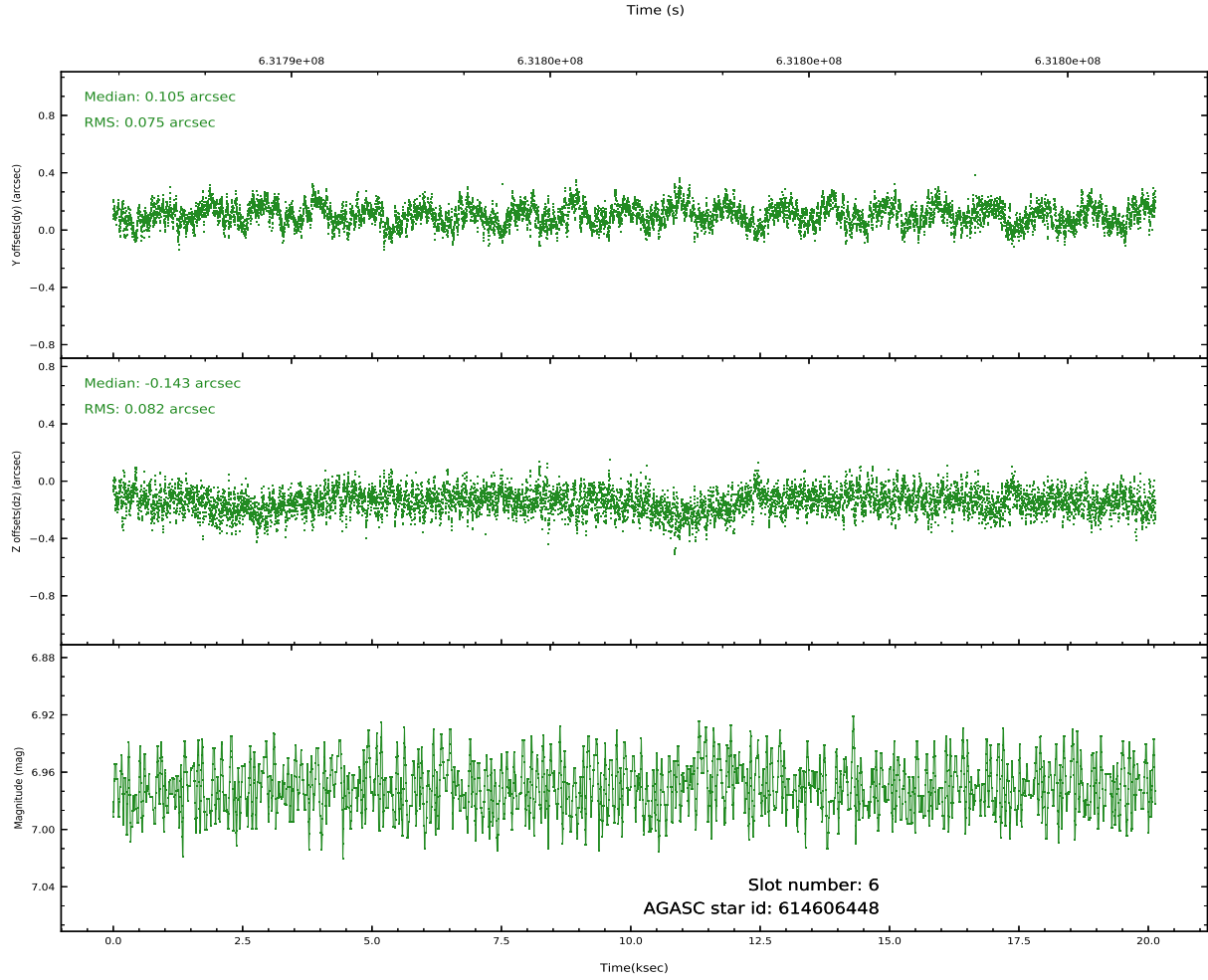
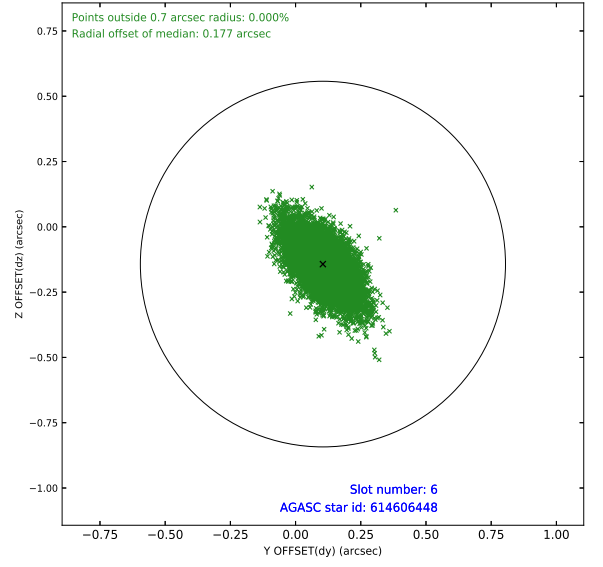
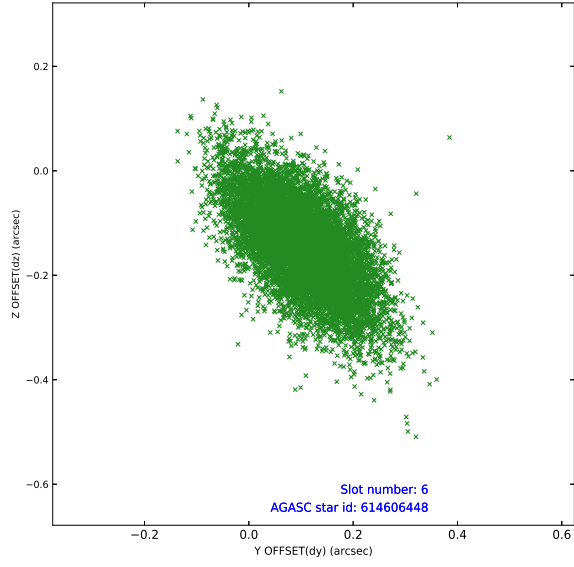
2.4.3 Slot 5



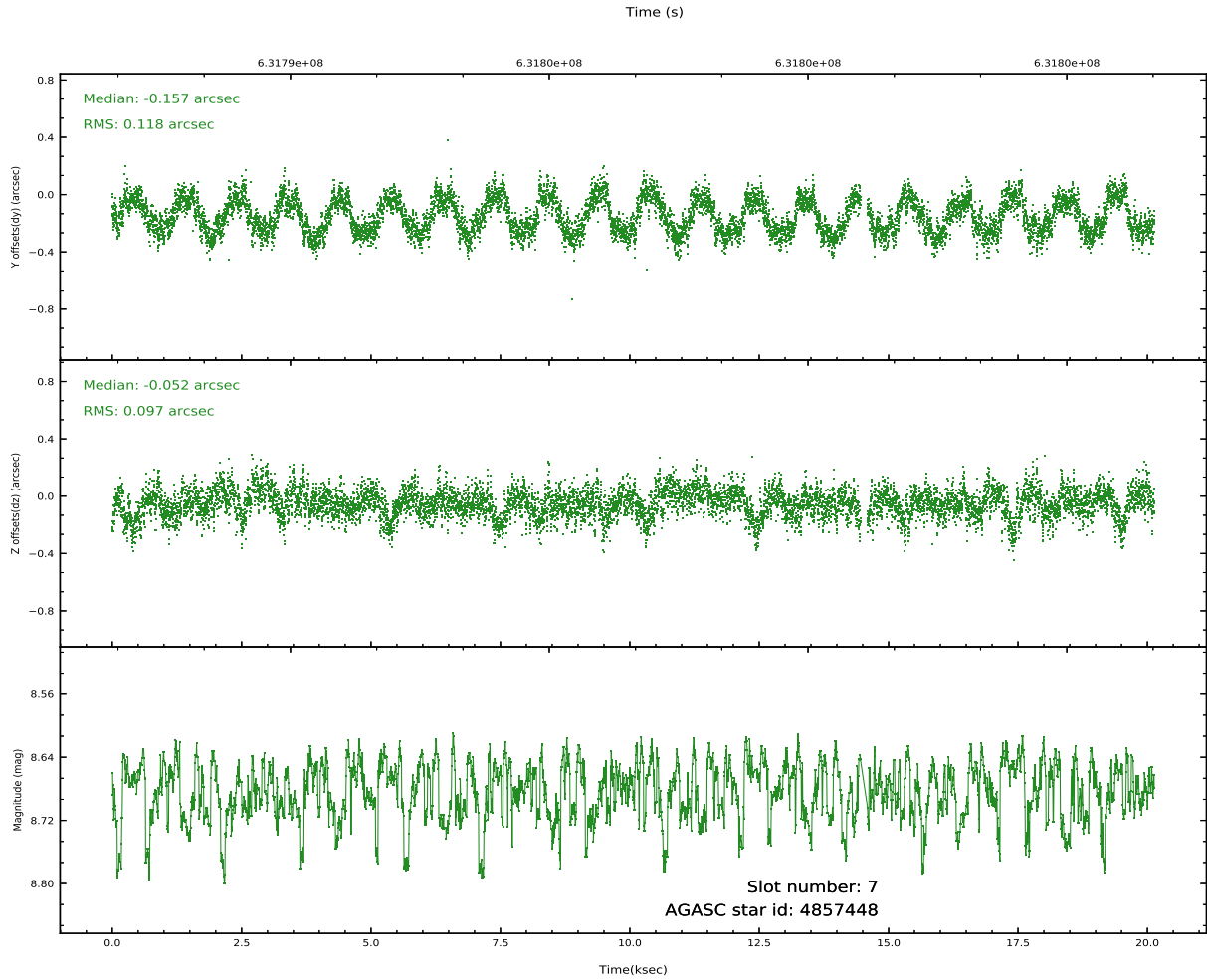
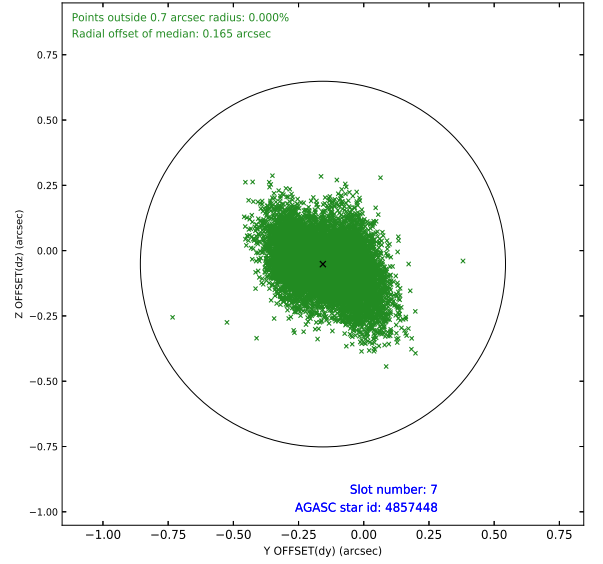
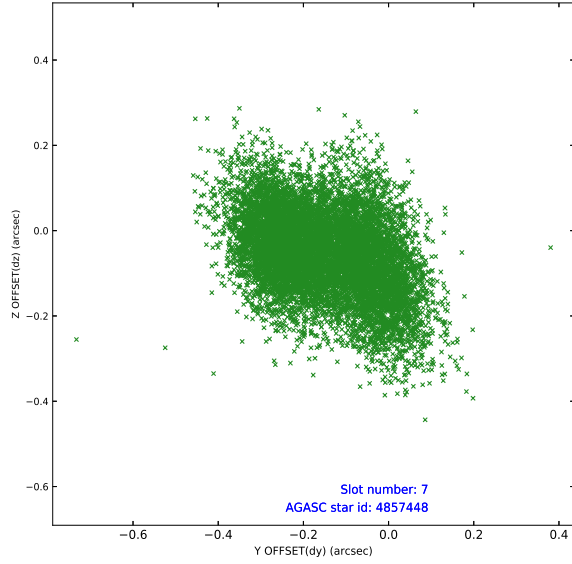
Time (s)



2.4.4 Slot 6

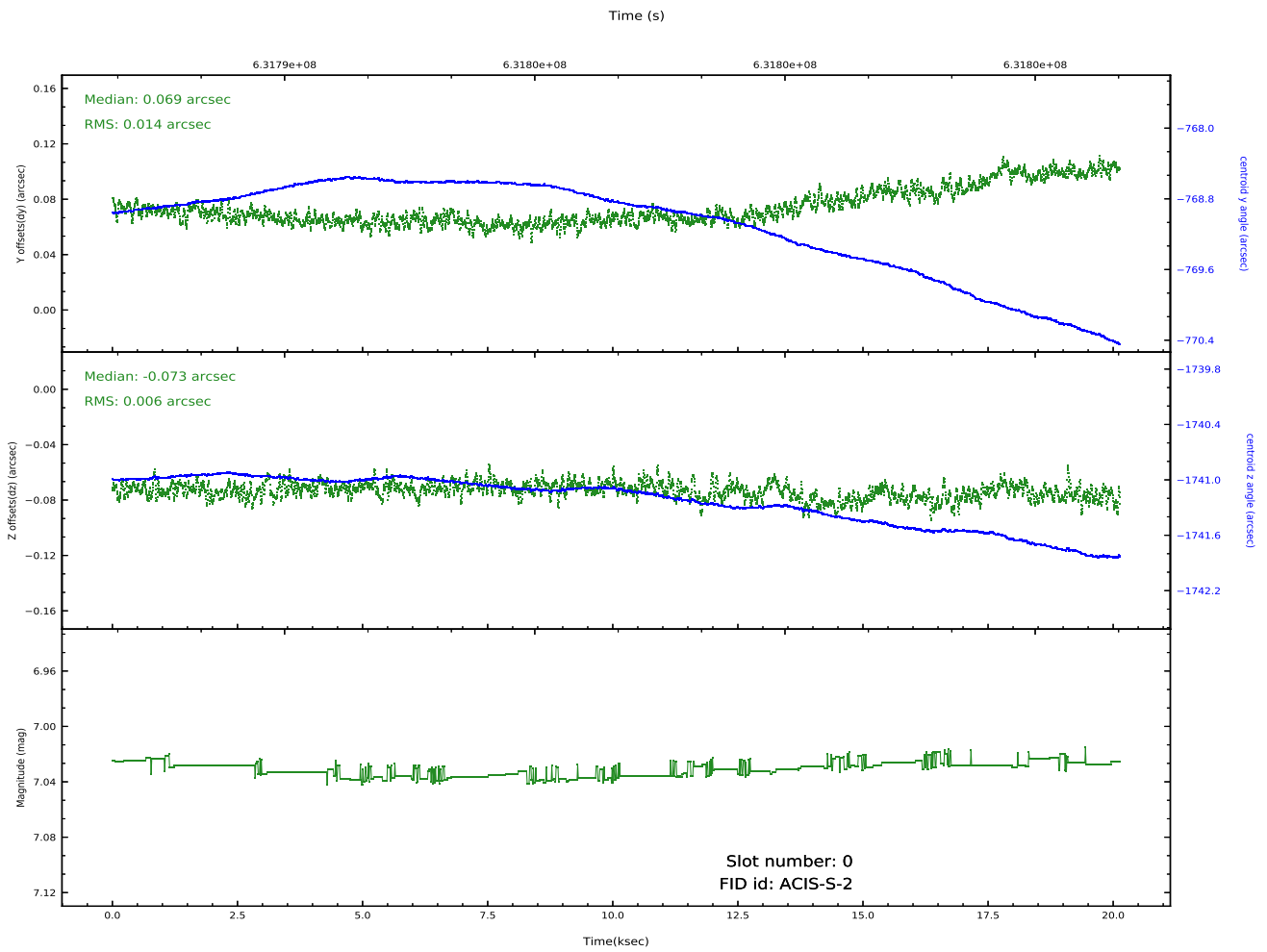
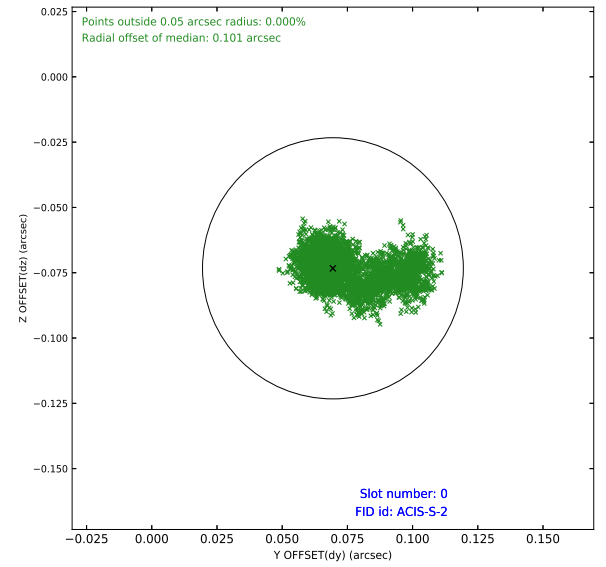
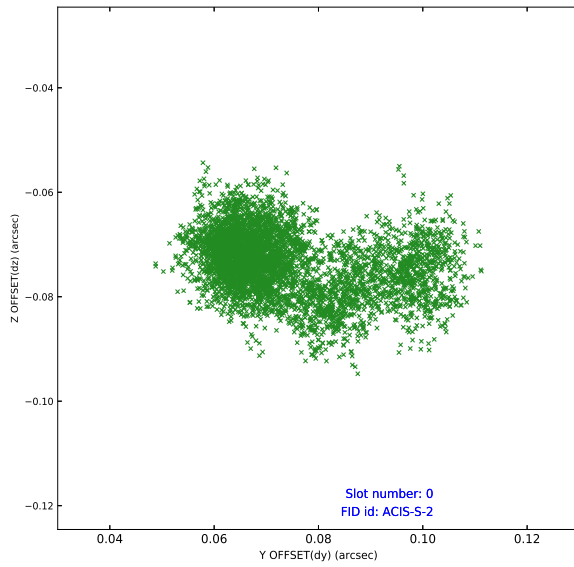


2.4.5 Slot 7

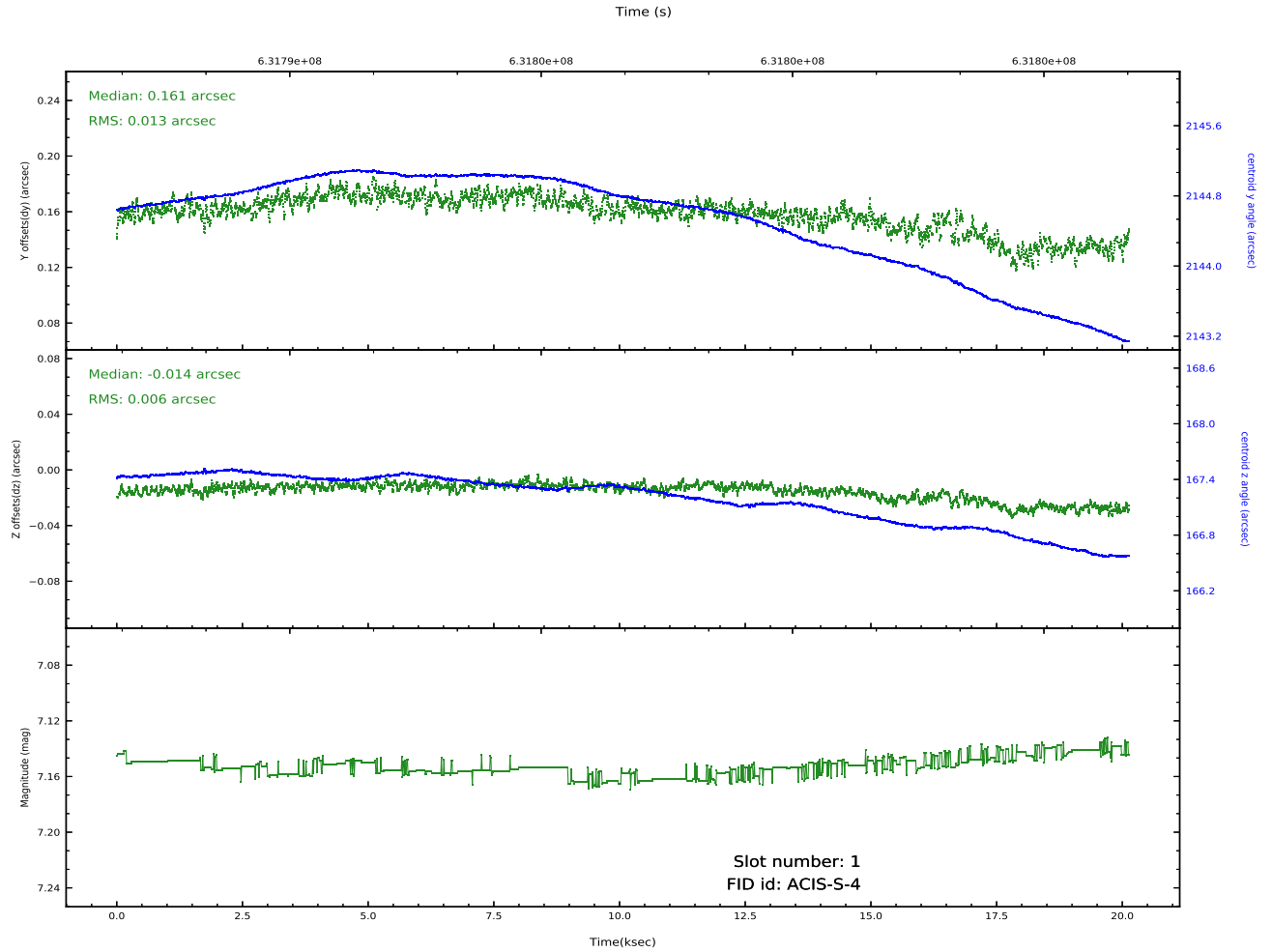
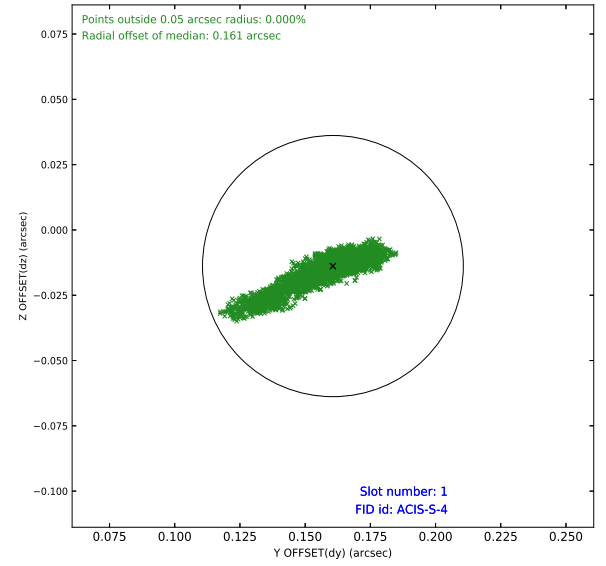
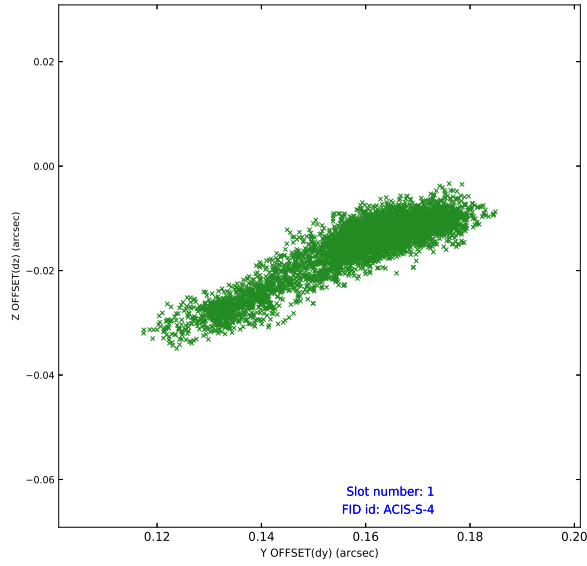


2.5 FID Slots

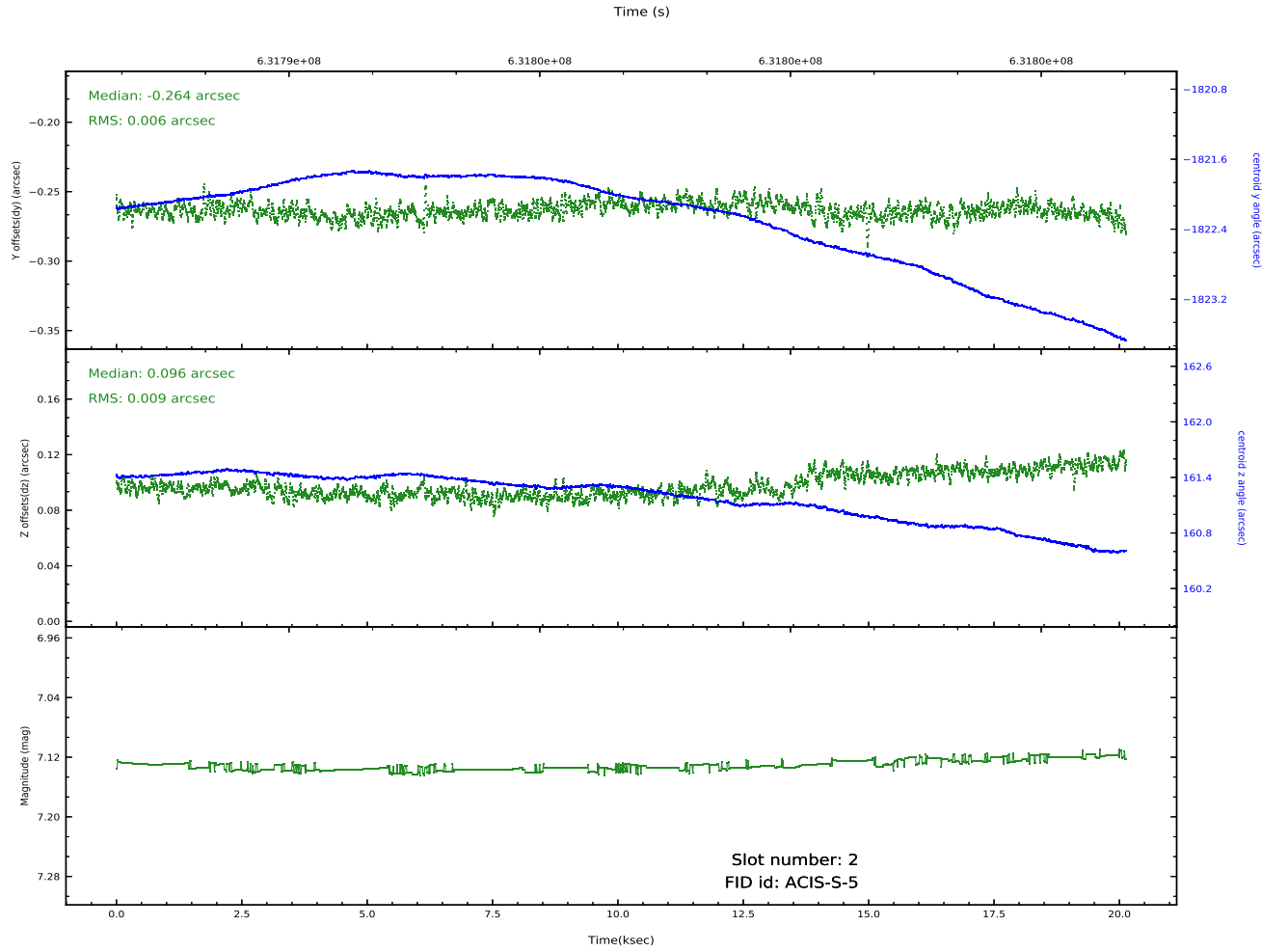
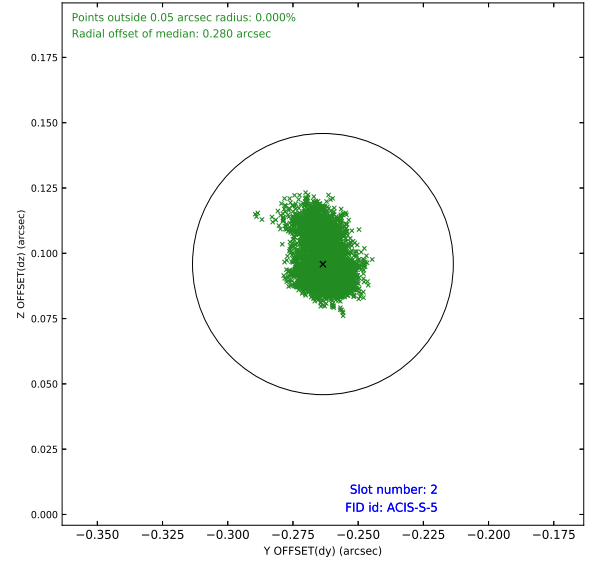
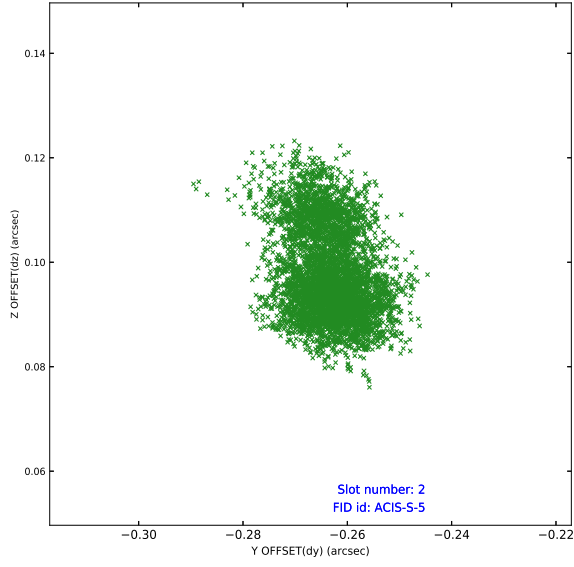
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069198803663

A.2 Comments