

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21097 - L2 Version 2
Chandra X-Ray Center

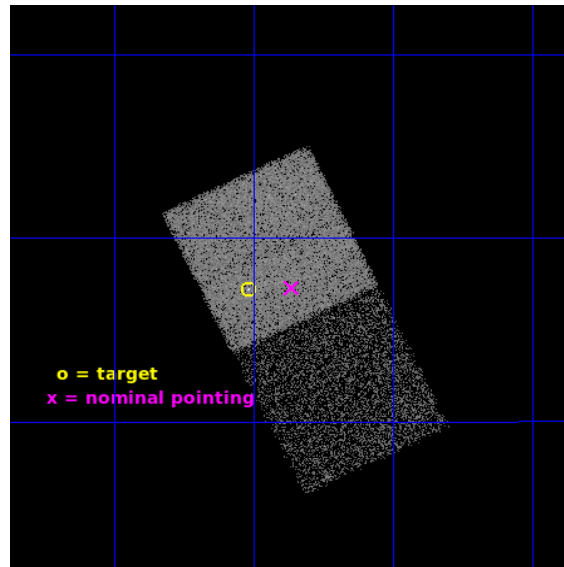
L2 Processing Date : Oct 26 2020

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1 Front

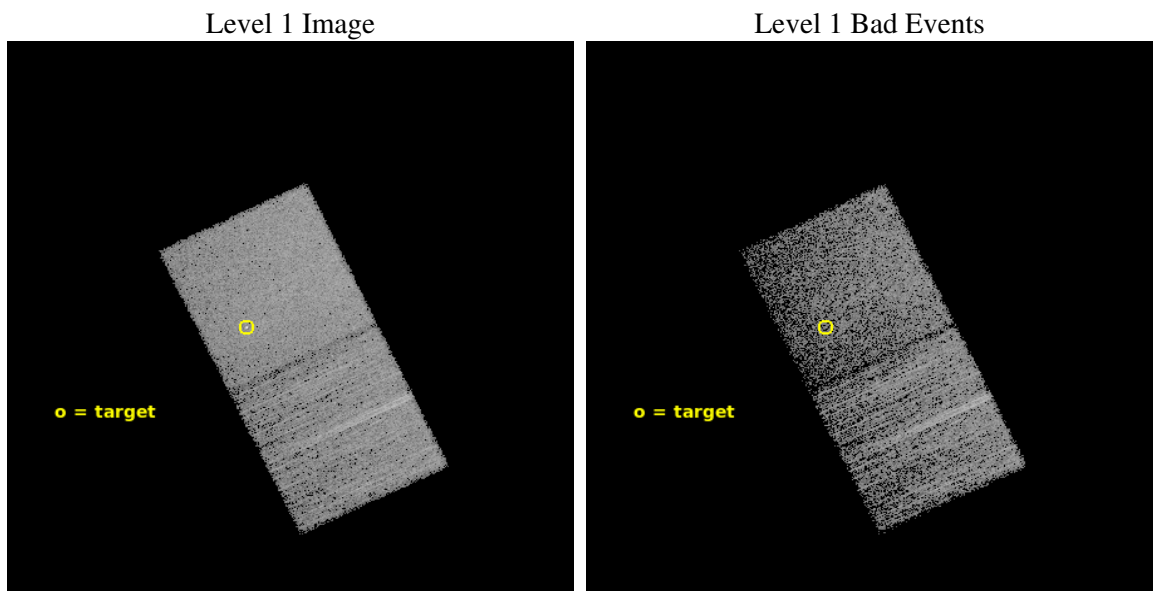
seq_num	703679	Sequence number
obs_id	21097	Observation id
title	Probing the duty cycle of a nuclear intermediate mass black hole accreting at the Eddington limit	Proposal title
observer	Igor Chilingarian	Principal investigator
object	SDSS J110731.23+134712	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.88	Observer's specified target RA [deg]
dec_targ	13.786917	Observer's specified target Dec [deg]
ra_nom	166.84079173279	Nominal RA [deg]
dec_nom	13.788157484742	Nominal Dec [deg]
roll_nom	244.15384210306	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10080.0	Sum of GTIs [s]
livetime	9943.9665377634	Livetime [s]
ontime6	10080.0	Sum of GTIs [s]
ontime7	10080.0	Sum of GTIs [s]
l2events	49103	Number of level 2 events



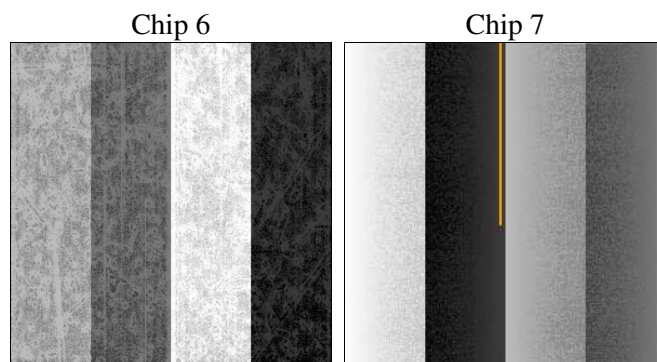
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10080.0	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	10080.0	Sum of GTIs [s]
date	2020-10-26T08:30:47	Date and time of file creation	ontime7	10080.0	Sum of GTIs [s]
revision	2	Processing version of data	l1events	178739	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7
level 1 events	81617	97122
rejected events	72992	54146
rejected %	89%	55%

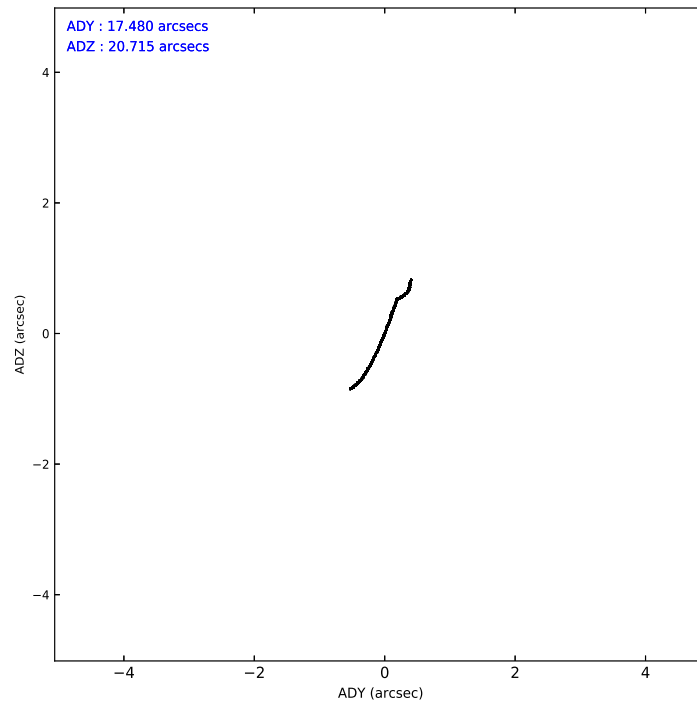
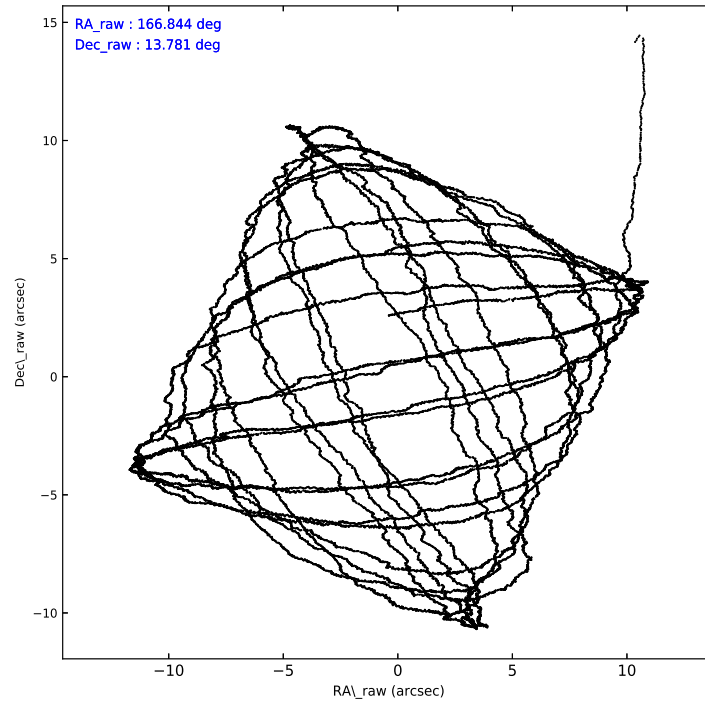
	ccd 6	ccd 7
grade 0 events	2741	3774
	3%	3%
grade 1 events	41	144
	0%	0%
grade 2 events	2159	8931
	2%	9%
grade 3 events	828	3460
	1%	3%
grade 4 events	837	3486
	1%	3%
grade 5 events	3406	9647
	4%	9%
grade 6 events	2061	23336
	2%	24%
grade 7 events	69544	44344
	85%	45%

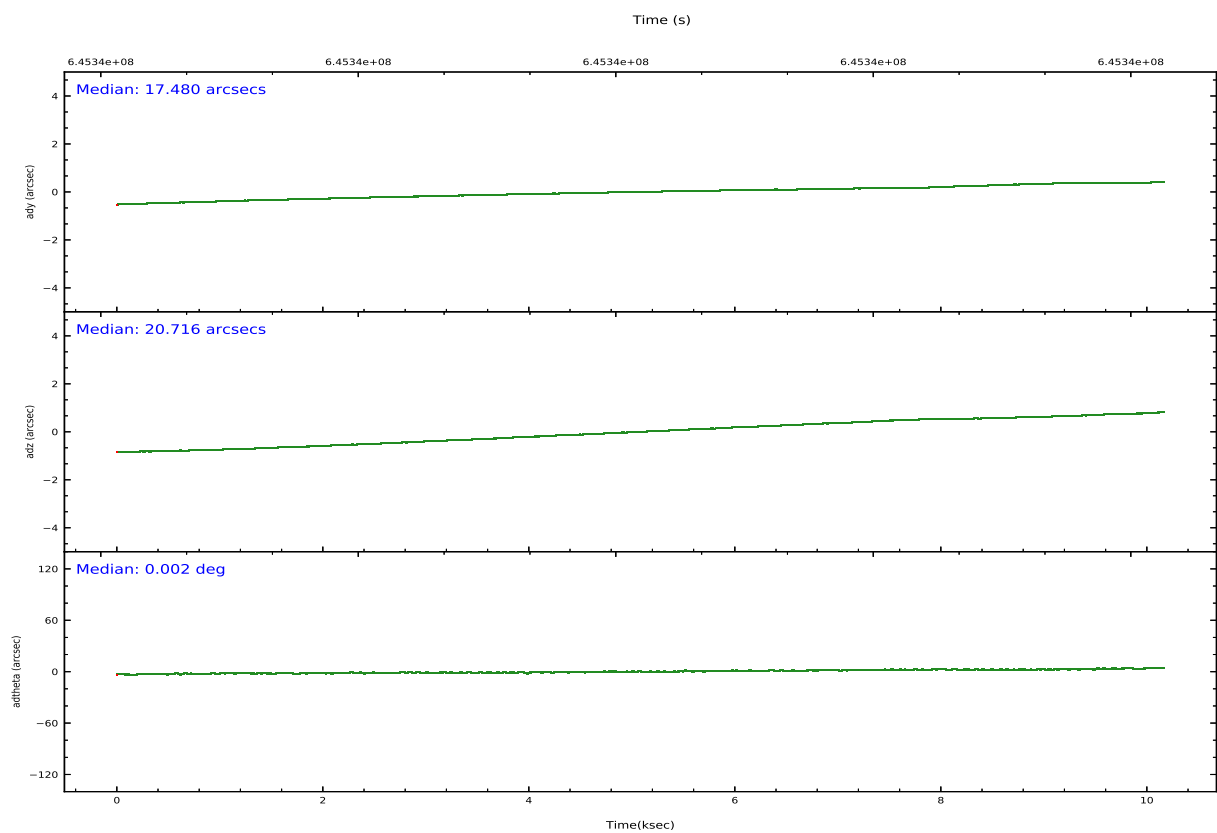
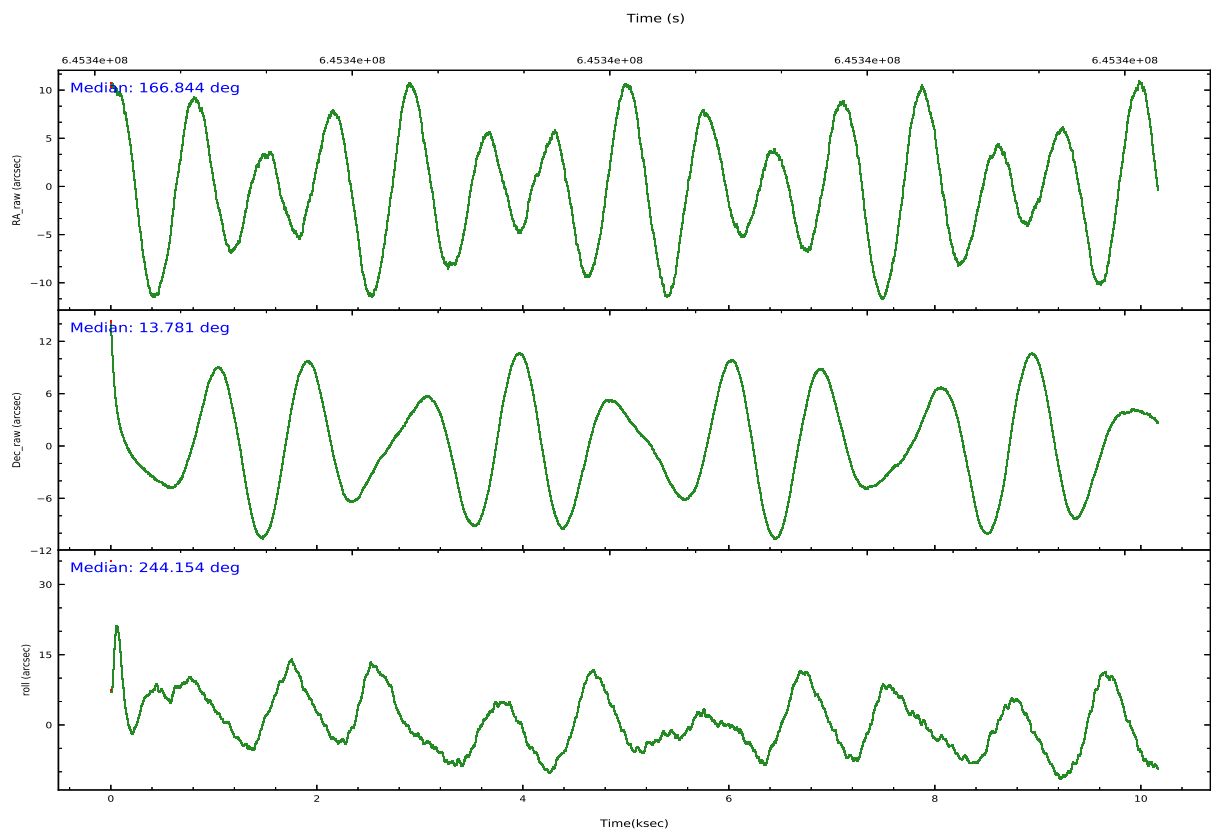
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-67	ACIS-67
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	166.841542	166.84079173279
[deg] Pointing Dec	13.808274	13.788157484742
[deg] Pointing Roll	244.009170	244.15384210306
[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)	645335324.184000	645334364.9886301
Observation start date	2018-06-14T03:47:35	2018-06-14T03:32:44
[s] Observation end time (MET)	645345324.184000	645346197.07683
Observation end date	2018-06-14T06:34:15	2018-06-14T06:49:57
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3

2.3 Aspect



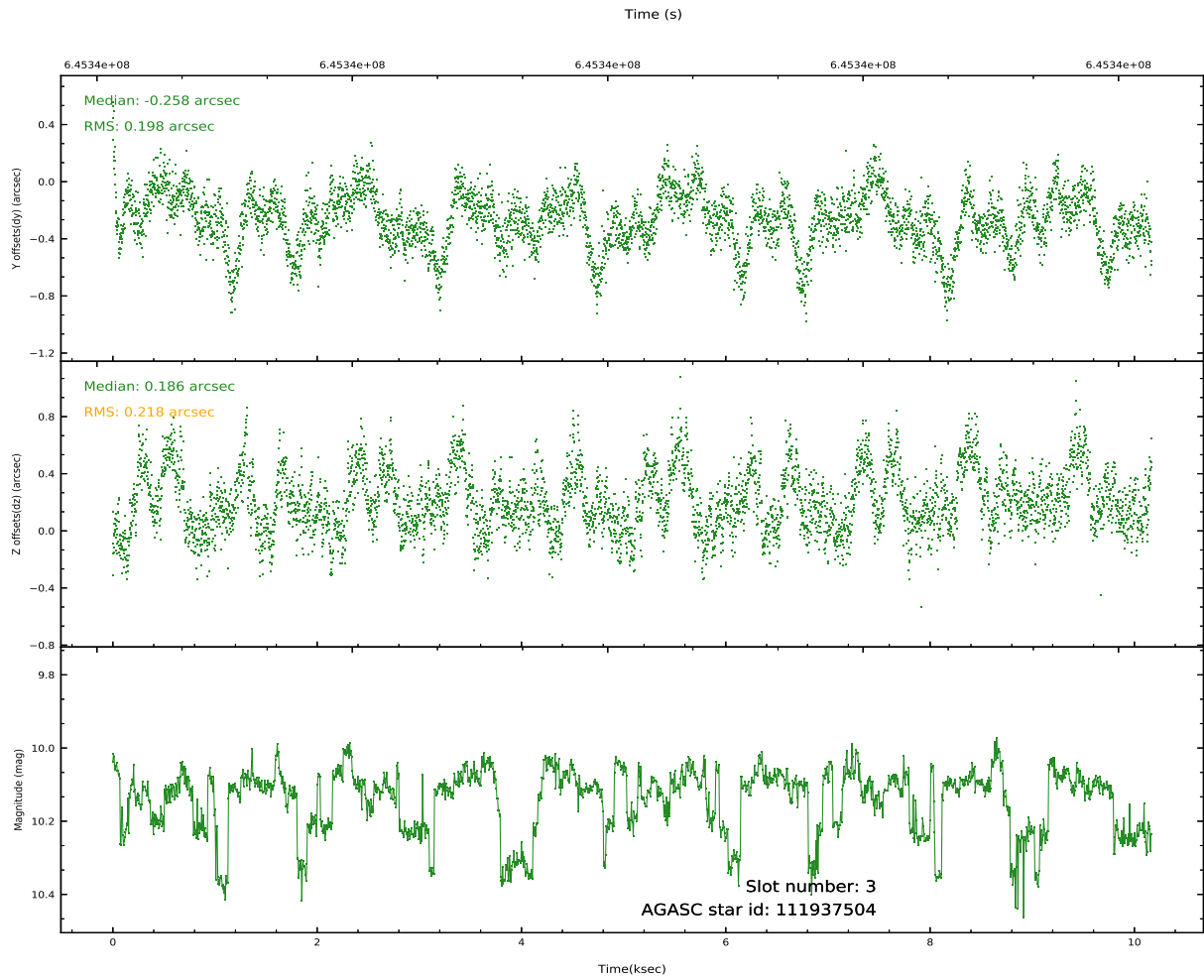
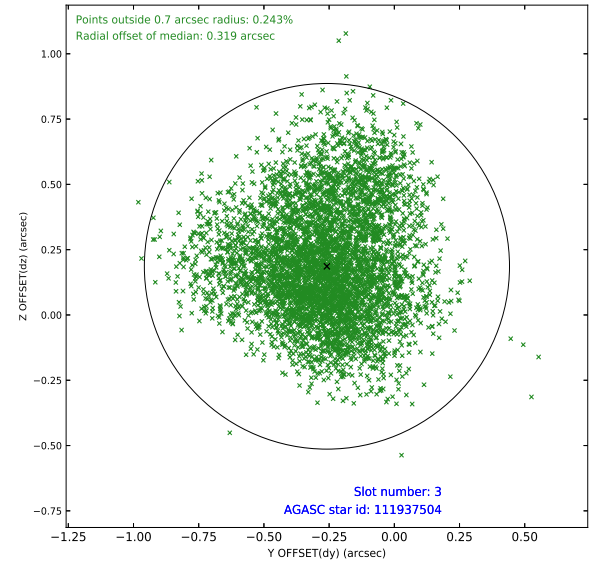
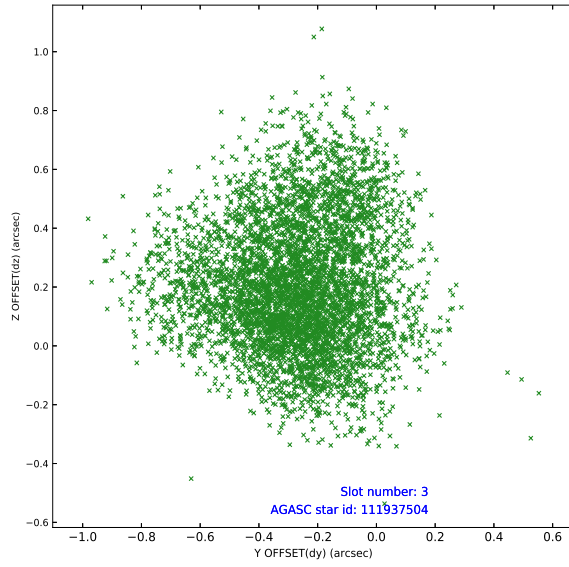


Slot Statistics

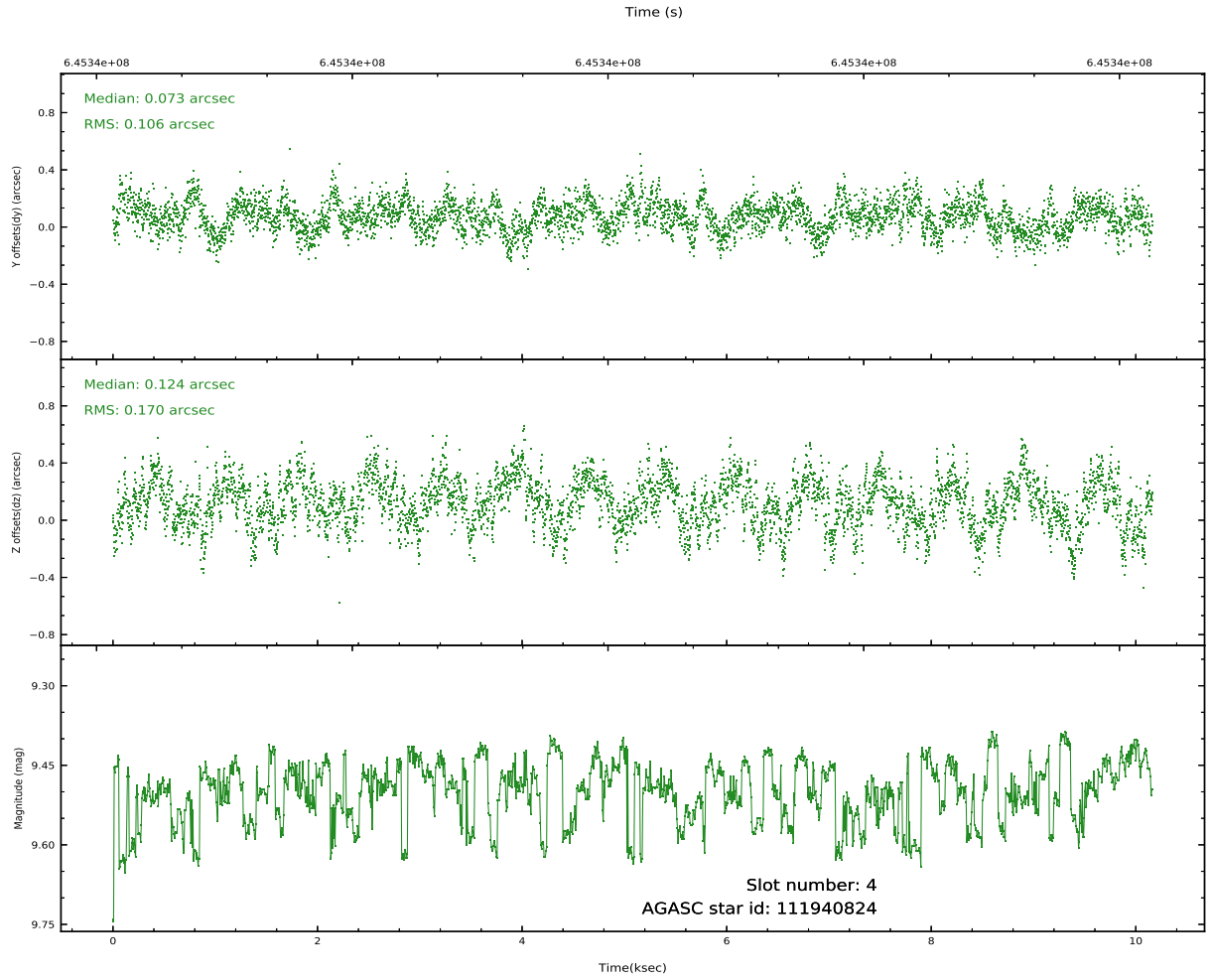
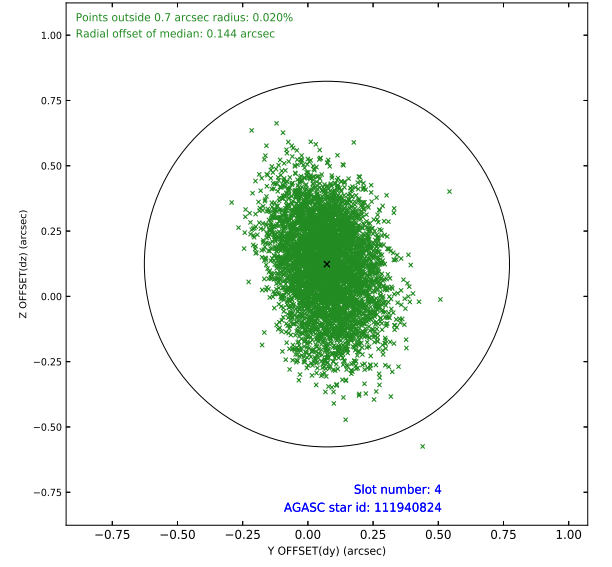
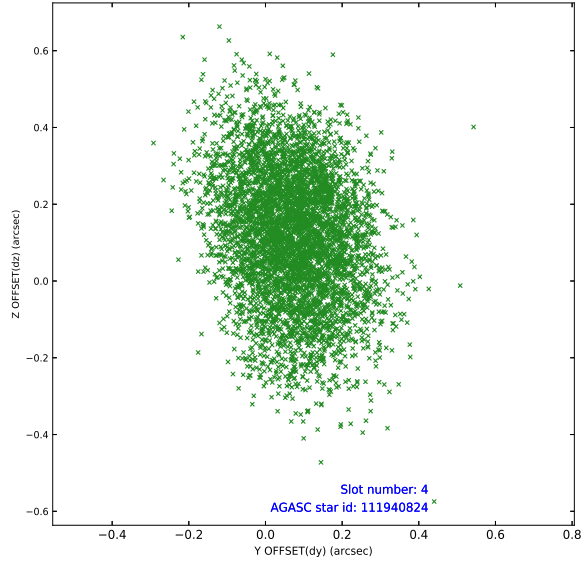
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2481	1.000	0.108	-0.098	0.016	0.025	0.000000	0.000000	-770.58	-1742
1	FID		ACIS-S-4	7.21	2481	1.000	0.140	-0.025	0.007	0.015	0.000000	0.000000	2142.69	165
2	FID		ACIS-S-5	7.20	2481	1.000	-0.279	0.132	0.015	0.023	0.000000	0.000000	-1822.94	160
3	GUIDE	used	111937504	10.11	4939	1.000	-0.258	0.186	0.321	0.508	166.918659	14.104940	-1077.35	-225
4	GUIDE	used	111940824	9.49	4943	1.000	0.073	0.124	0.211	0.352	166.771849	13.963512	-394.85	-464
5	GUIDE	used	111941176	9.85	4949	1.000	0.019	-0.053	0.239	0.388	166.783108	13.157843	2194.69	842
6	GUIDE	used	111944680	9.17	4951	1.000	-0.072	-0.025	0.201	0.327	167.248509	13.677561	-201.19	1485
7	GUIDE	used	111940984	9.52	4951	1.000	0.279	-0.242	0.316	0.504	166.041497	13.732848	1467.28	-2397

2.4 Star Slots

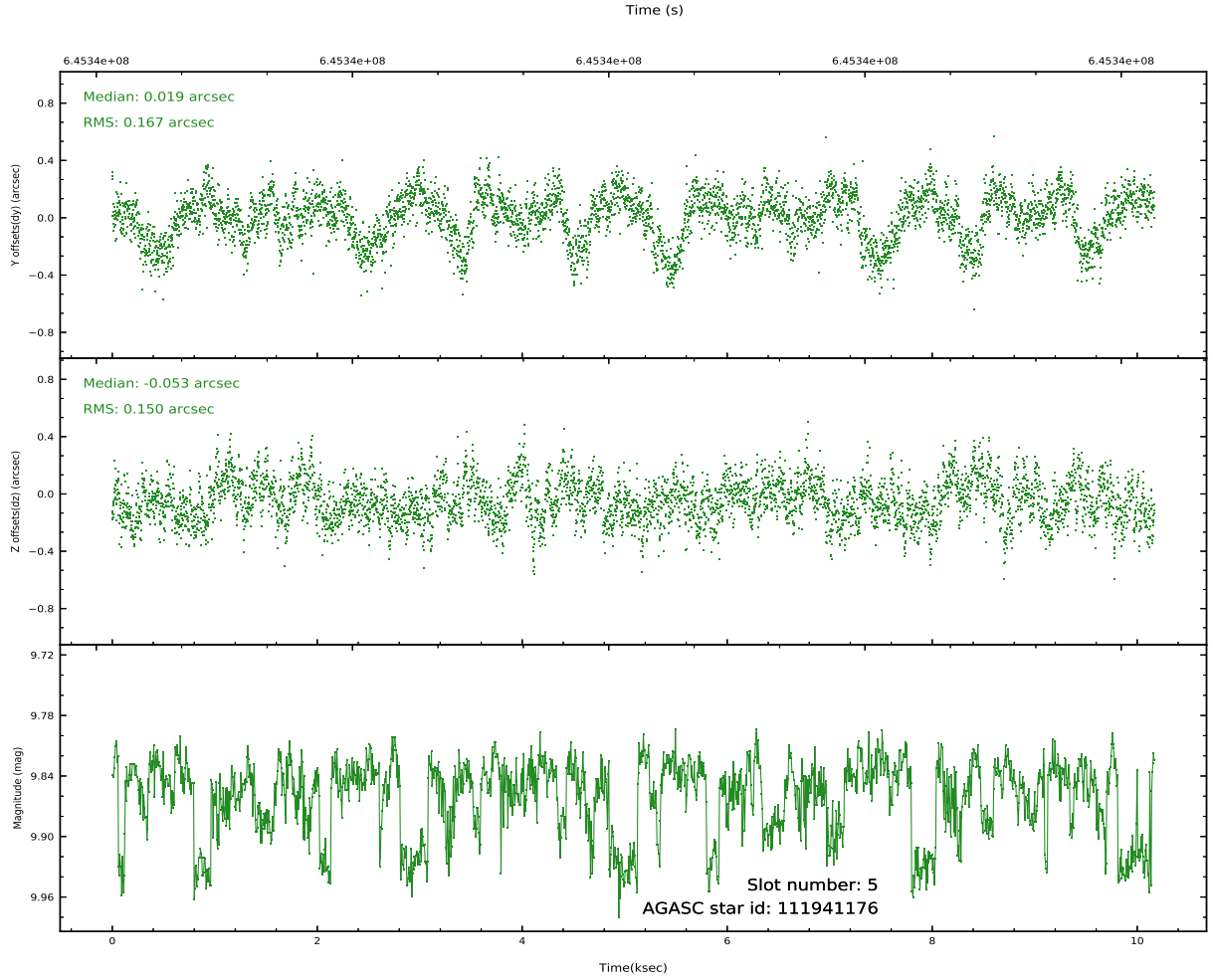
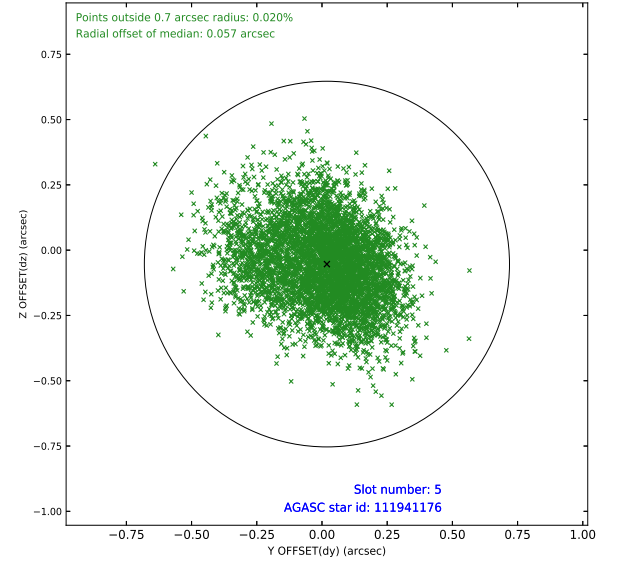
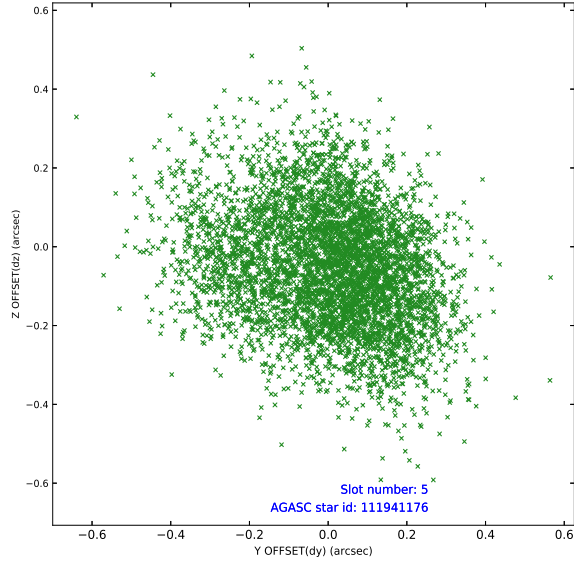
2.4.1 Slot 3



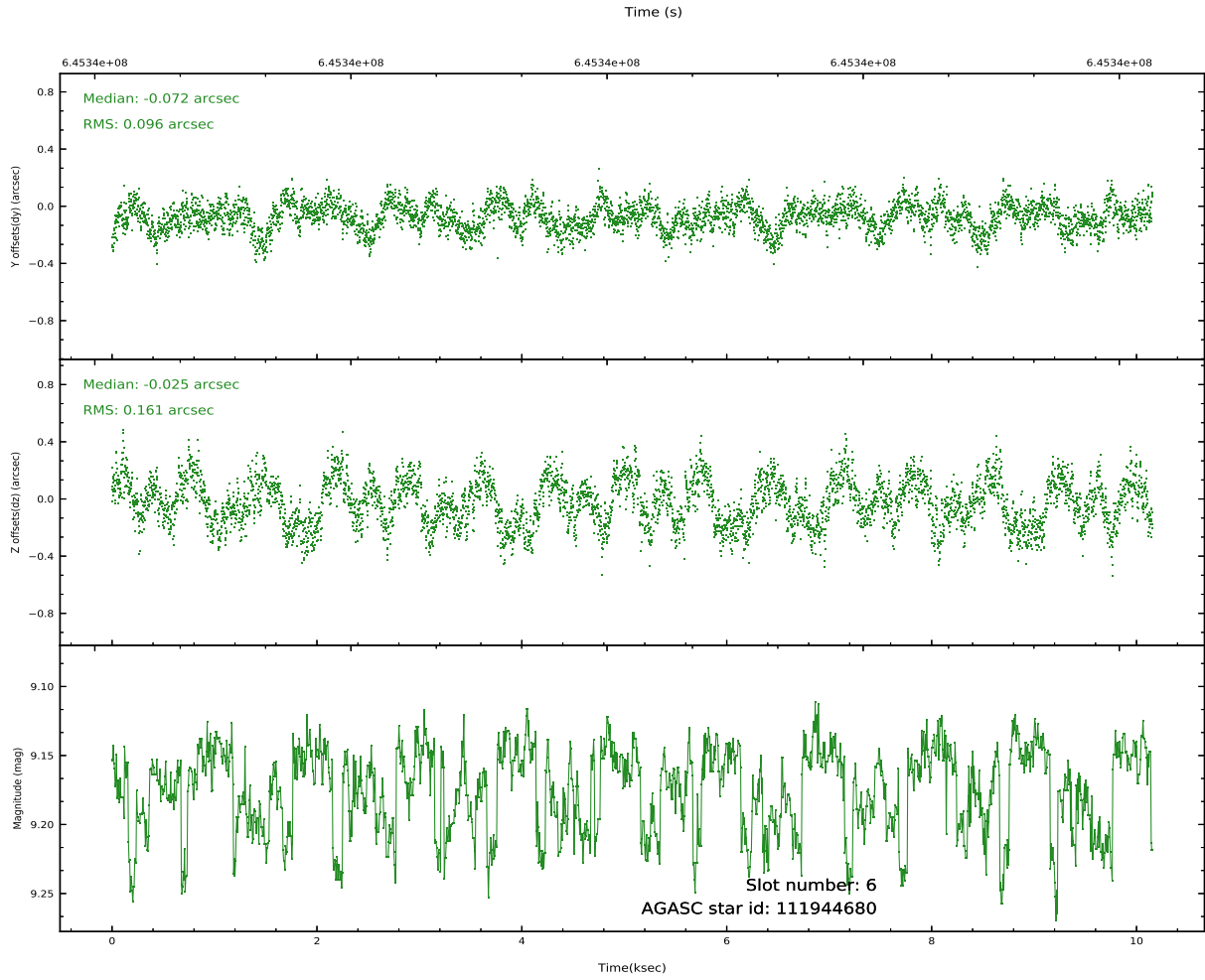
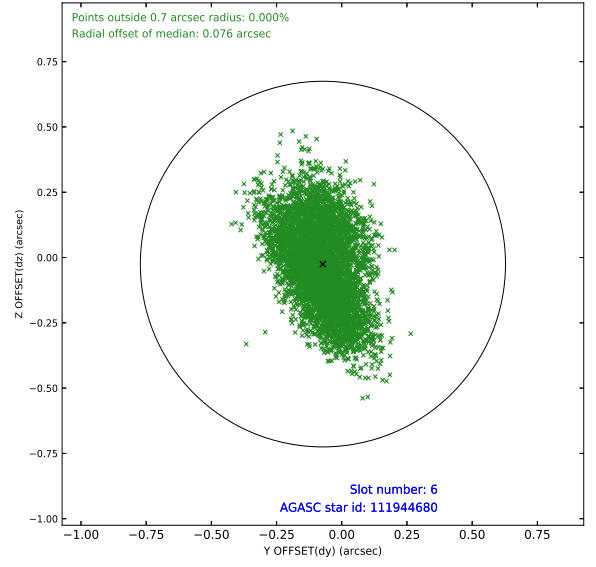
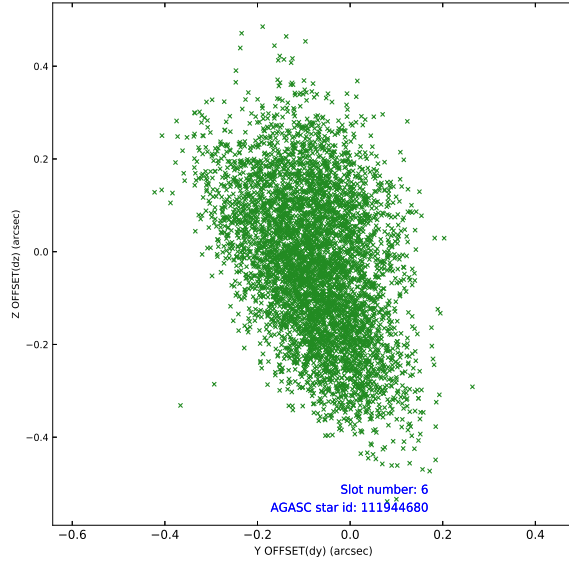
2.4.2 Slot 4



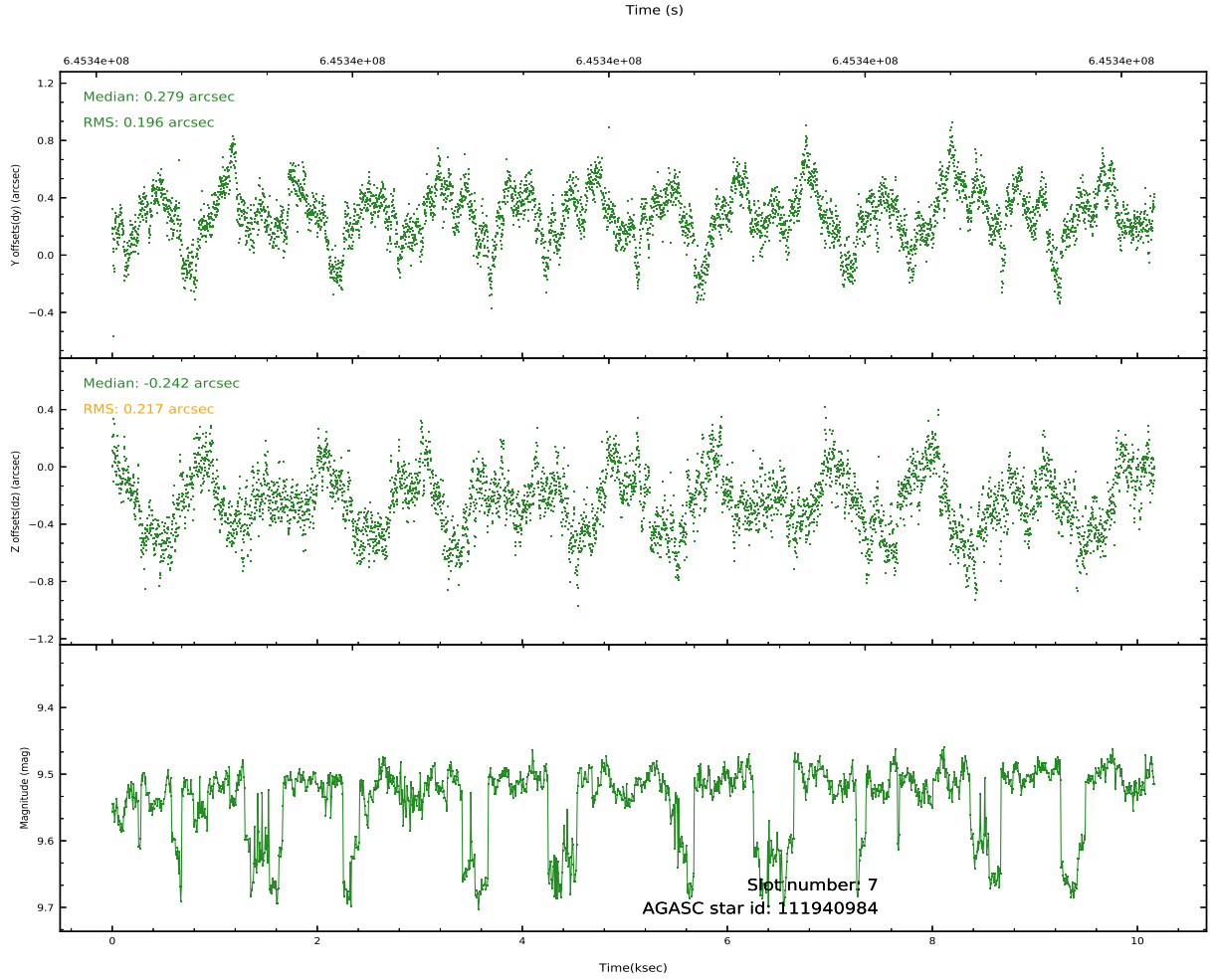
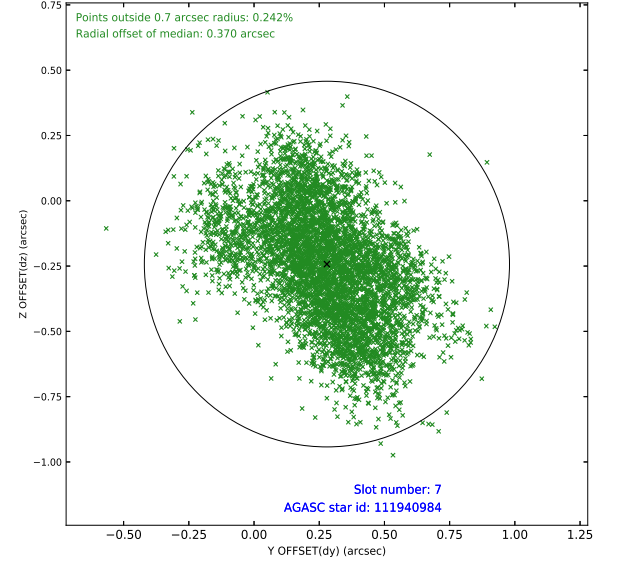
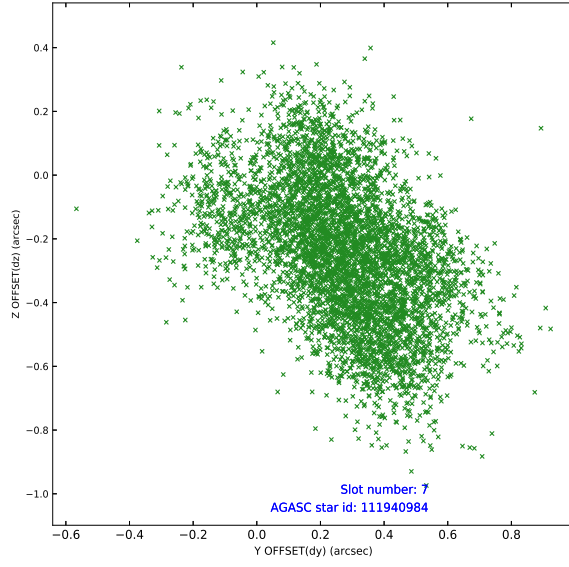
2.4.3 Slot 5



2.4.4 Slot 6

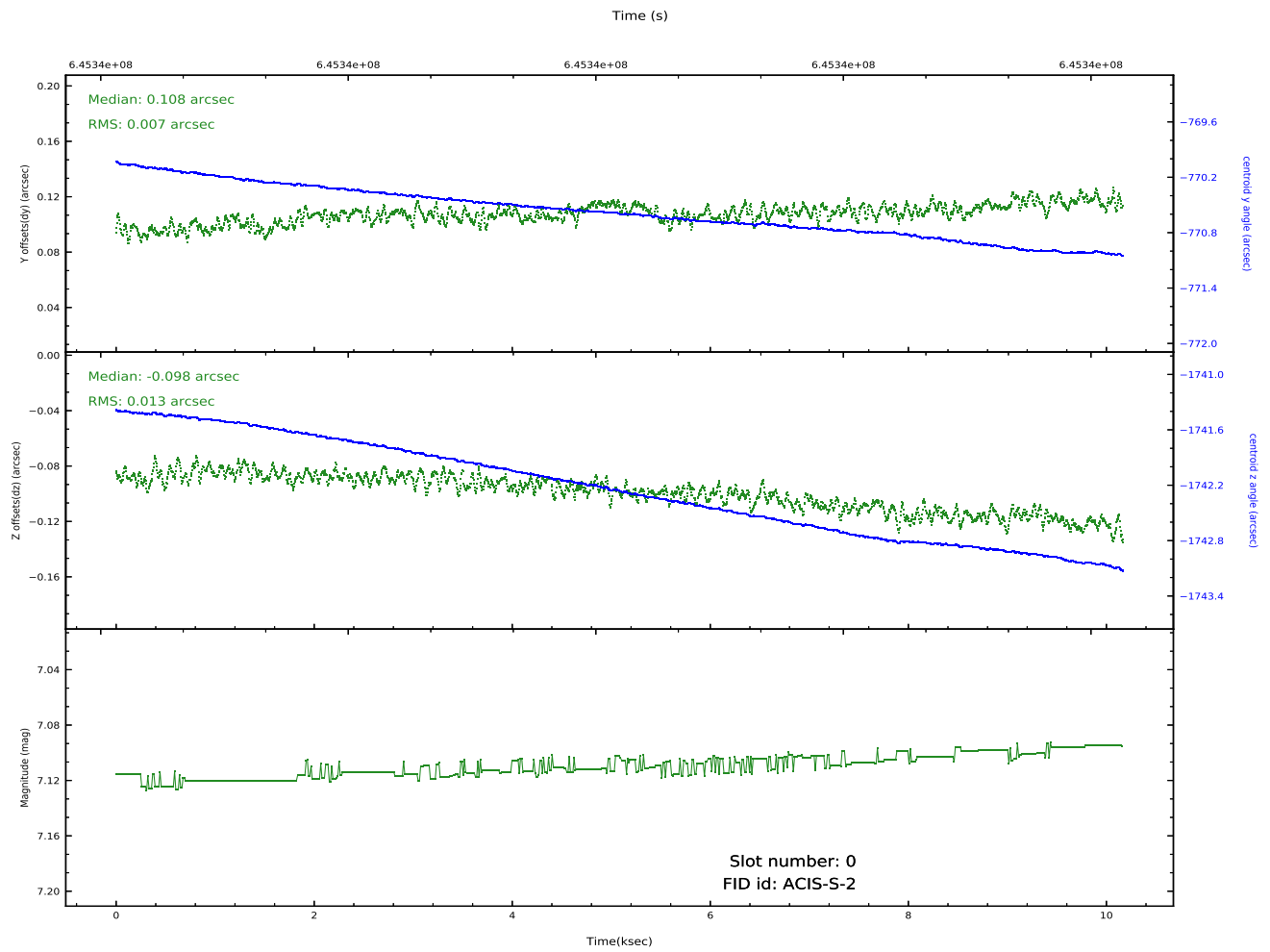
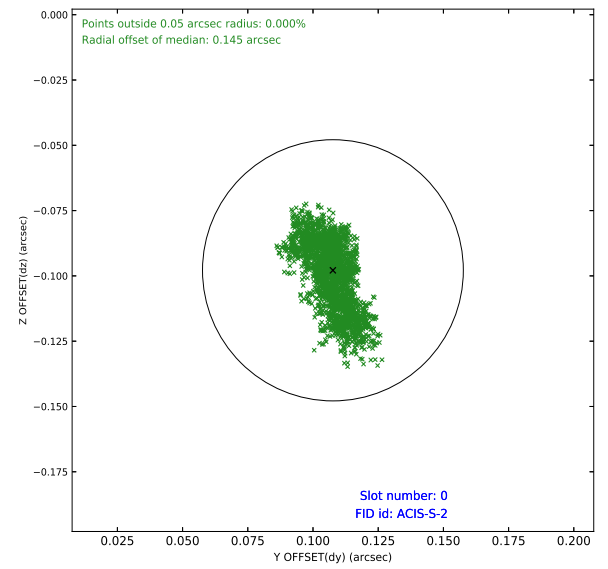
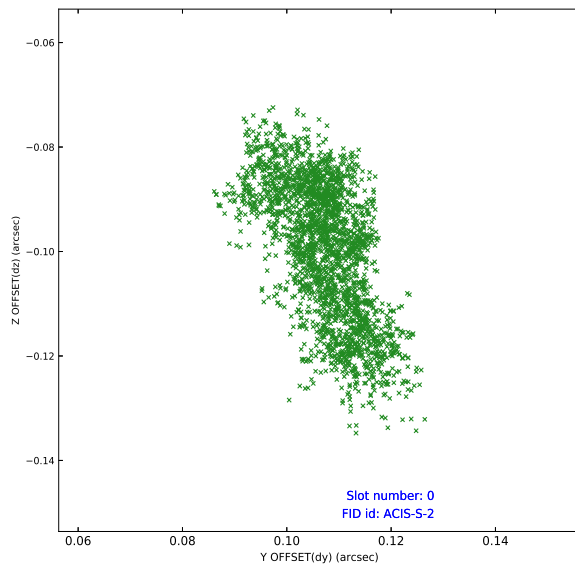


2.4.5 Slot 7

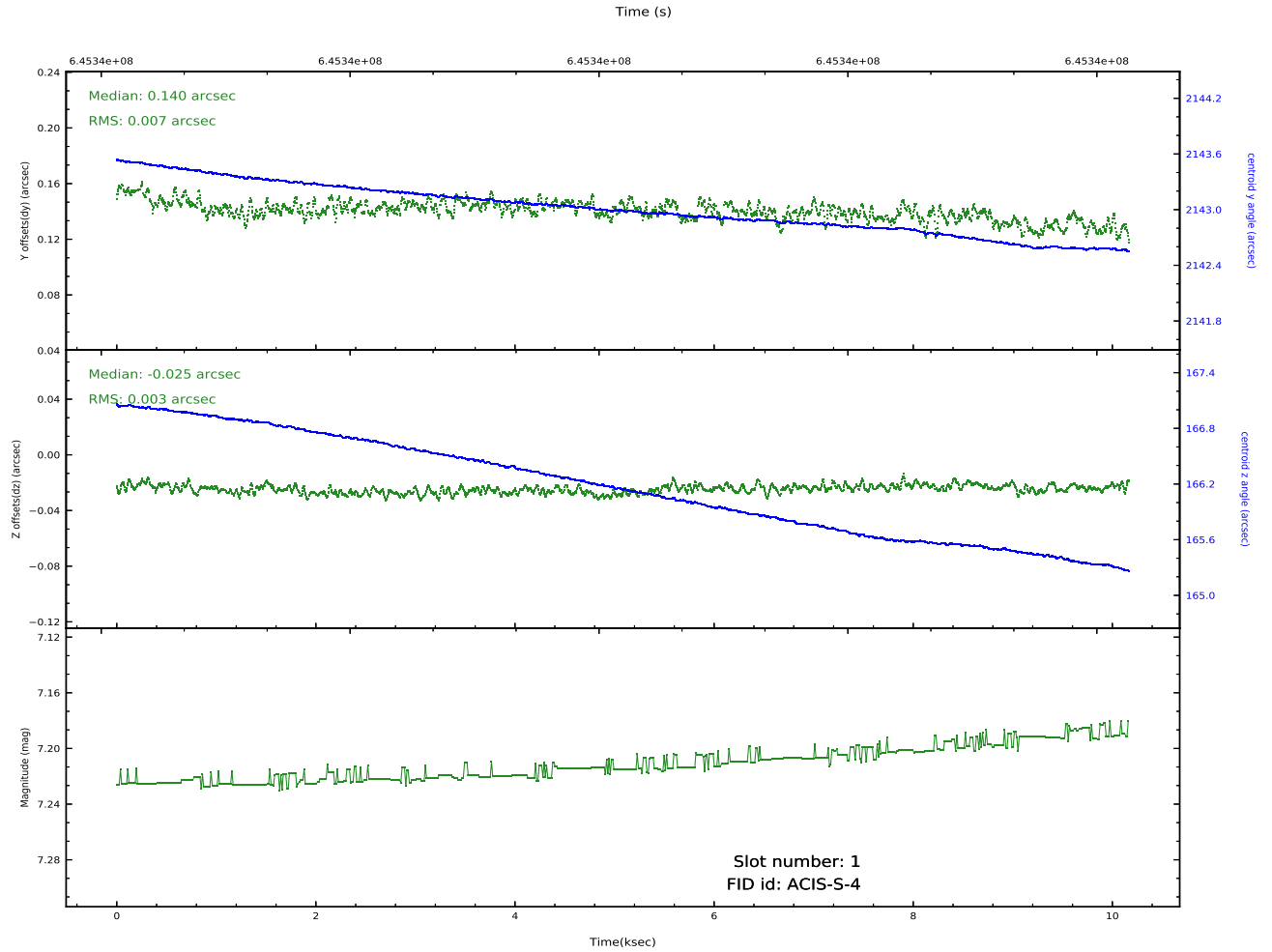
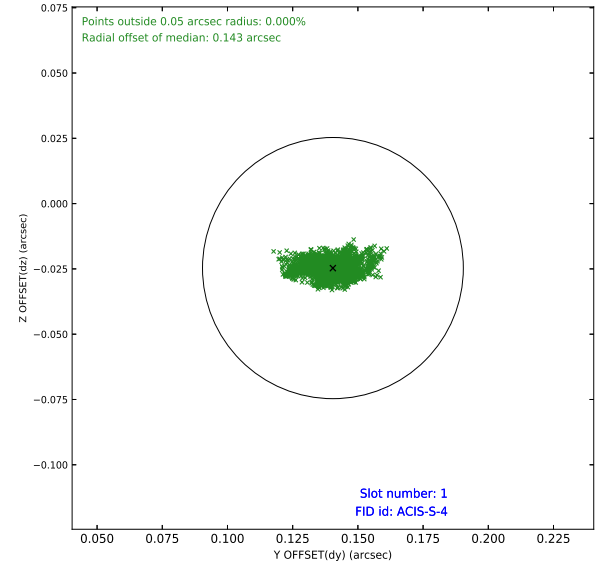
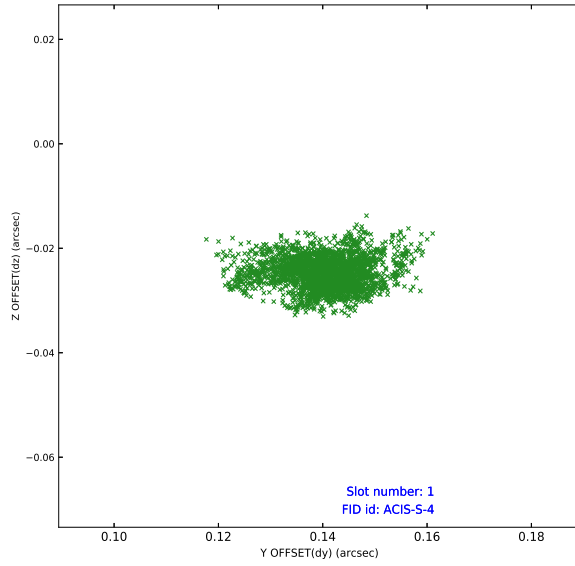


2.5 FID Slots

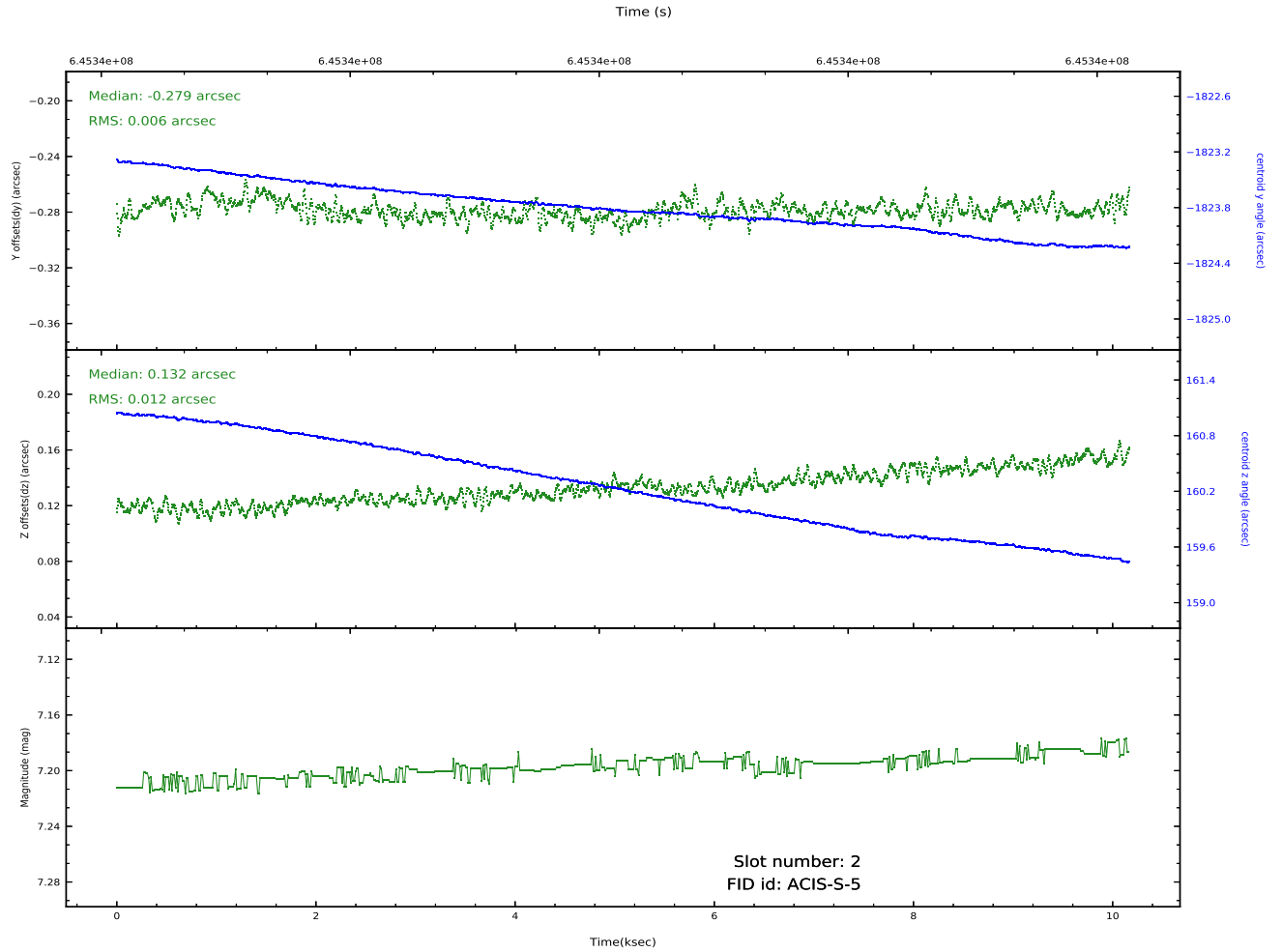
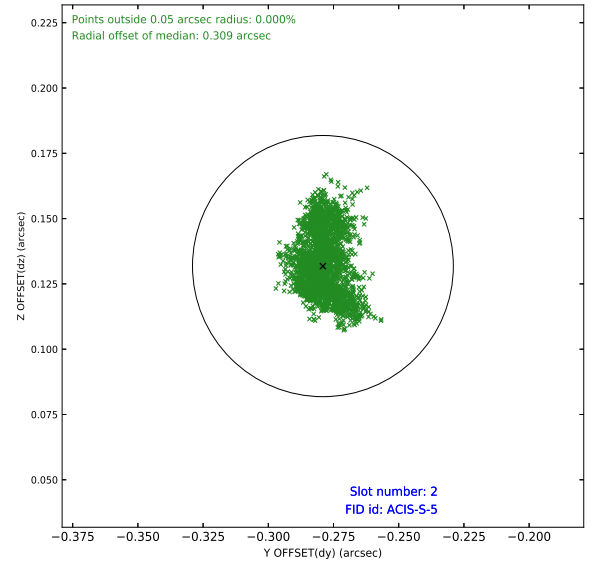
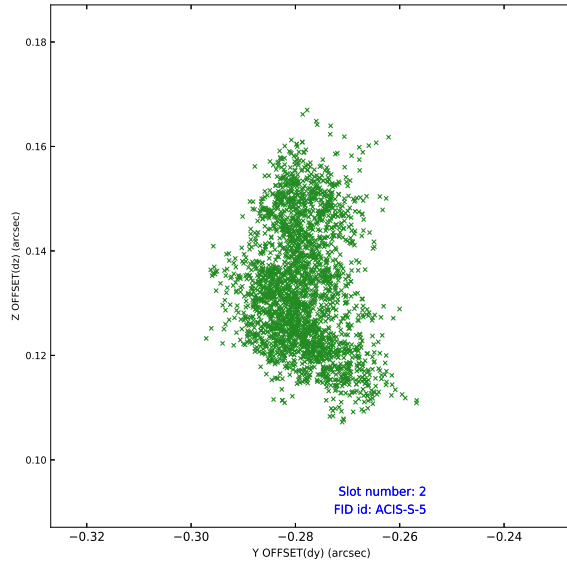
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.08

A.2 Comments