

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20759 - L2 Version 2
Chandra X-Ray Center

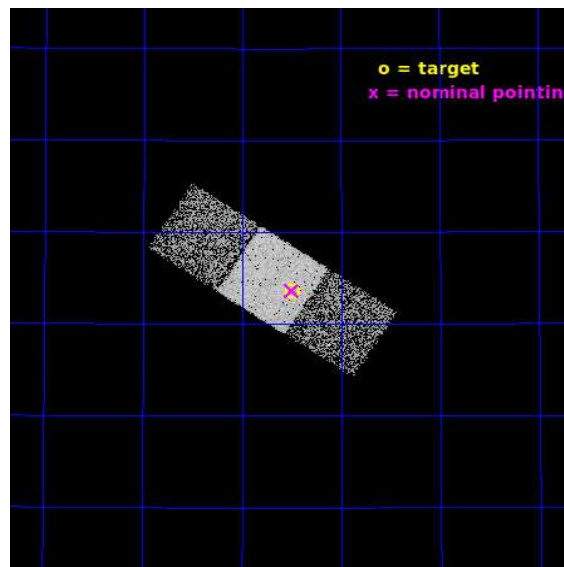
L2 Processing Date : Oct 25 2020

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

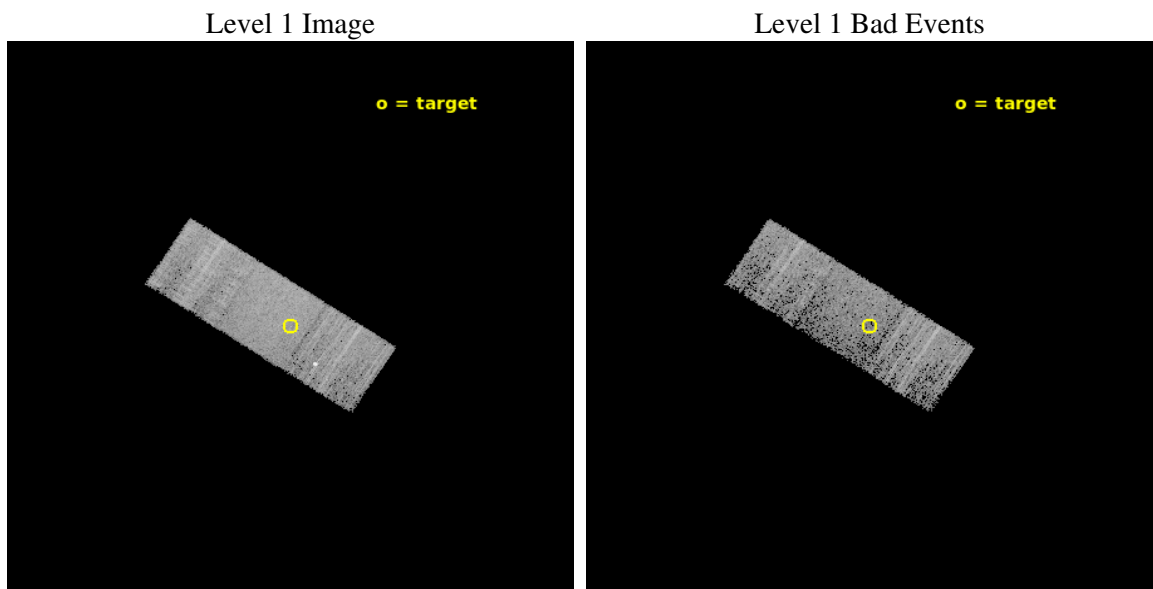
seq_num	703624	Sequence number
obs_id	20759	Observation id
title	A Chandra Snapshot Survey of Extremely Red Quasars from SDSS BOSS and WISE	Proposal title
observer	Gordon Garmire	Principal investigator
object	J1117+4623	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.373333	Observer's specified target RA [deg]
dec_targ	46.392	Observer's specified target Dec [deg]
ra_nom	169.37417664739	Nominal RA [deg]
dec_nom	46.393844005255	Nominal Dec [deg]
roll_nom	213.20471014804	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4110.2178816795	Sum of GTIs [s]
livetime	4056.514859157	Livetime [s]
ontime6	4110.1768417358	Sum of GTIs [s]
ontime7	4110.2178816795	Sum of GTIs [s]
ontime8	4110.1358016729	Sum of GTIs [s]
l2events	22952	Number of level 2 events



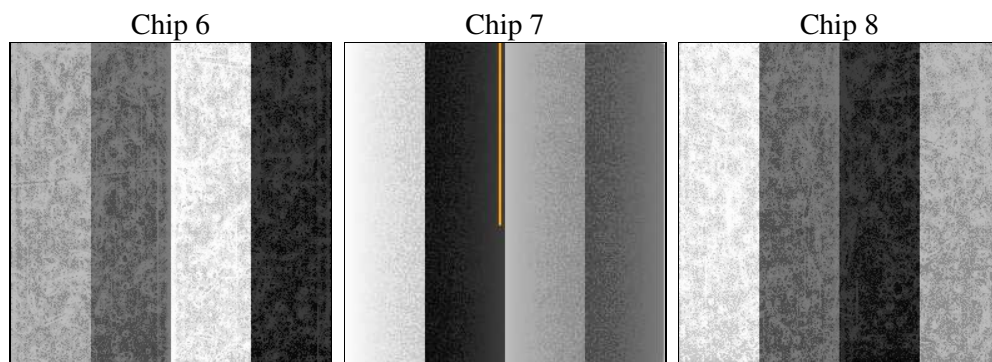
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	4110.2178816795	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	4110.1768417358	Sum of GTIs [s]
date	2020-10-25T11:30:08	Date and time of file creation	ontime7	4110.2178816795	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	4110.1358016729	Sum of GTIs [s]
			l1events	112645	Number of level 1 events

2.1.4 Events

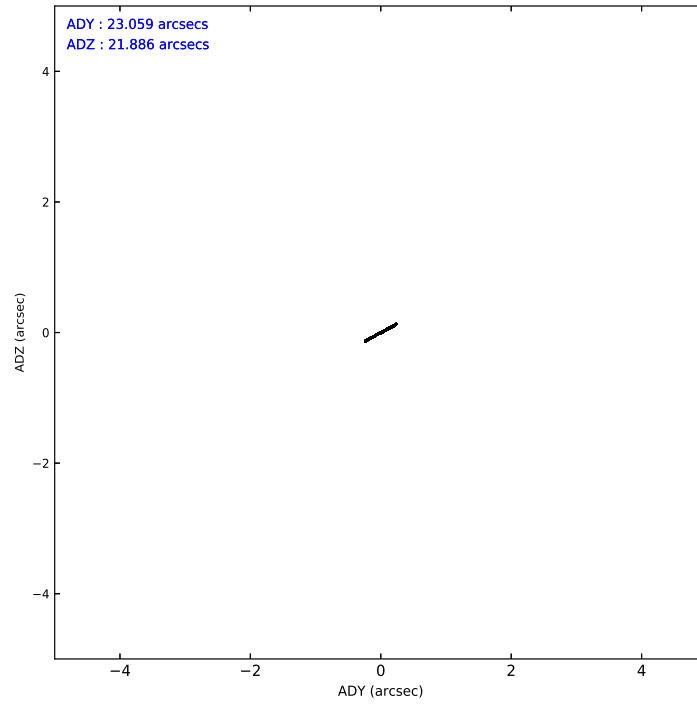
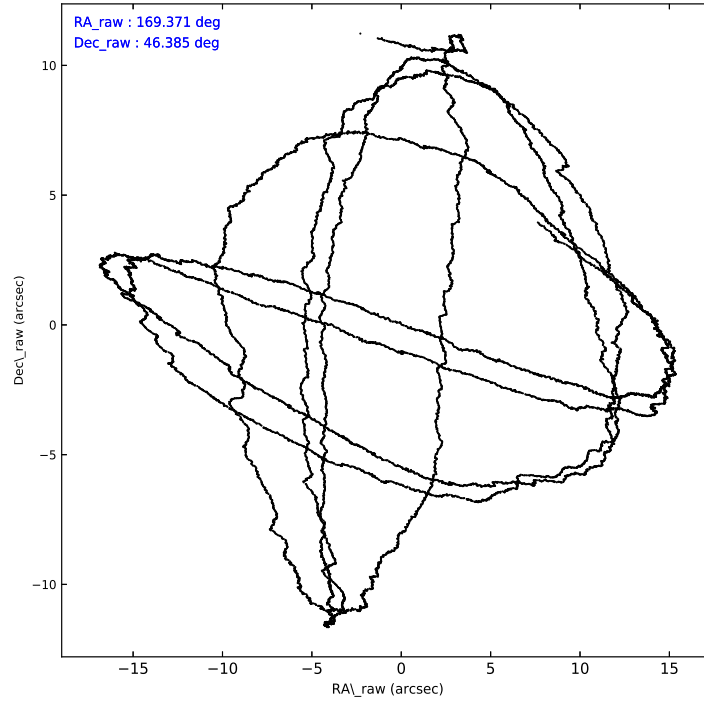
	ccd 6	ccd 7	ccd 8
level 1 events	33957	38797	39891
rejected events	29240	21802	29092
rejected %	86%	56%	72%

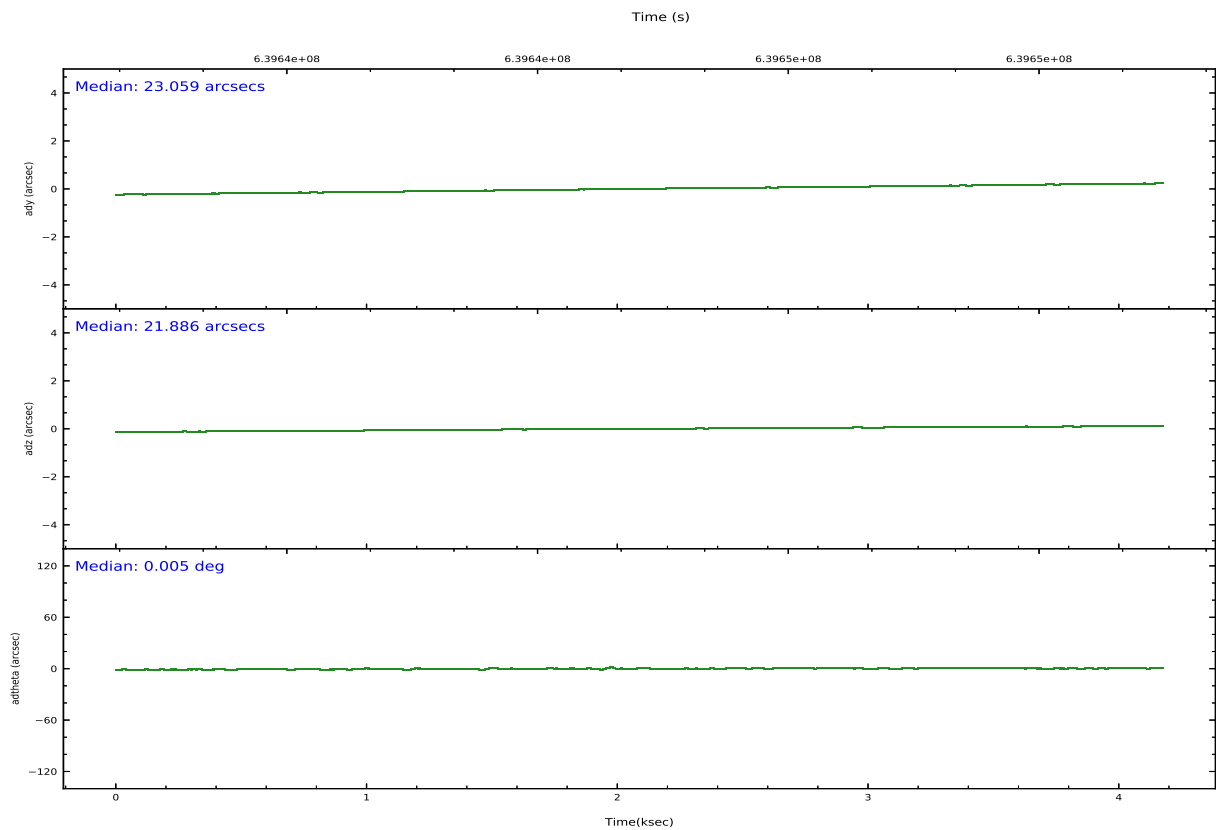
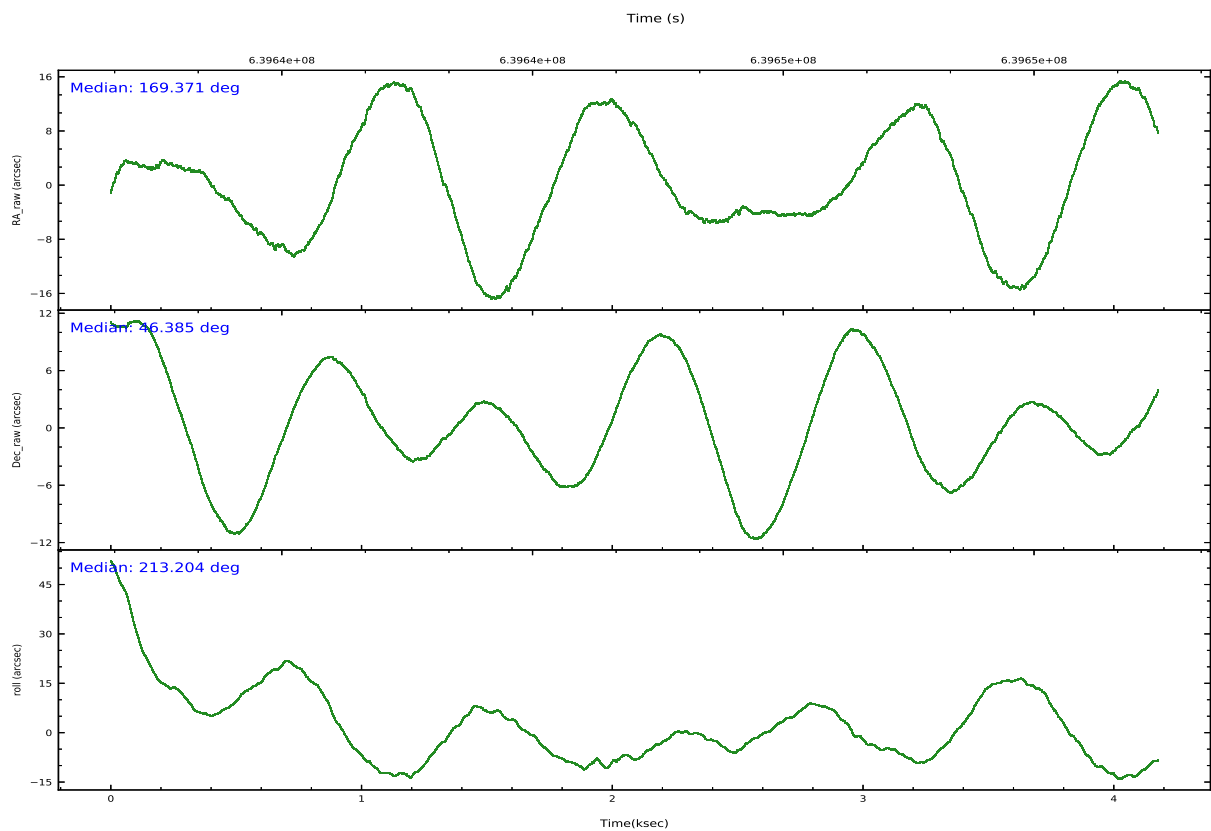
	ccd 6	ccd 7	ccd 8
grade 0 events	1107	1393	3017
	3%	3%	7%
grade 1 events	10	47	41
	0%	0%	0%
grade 2 events	2073	3547	2585
	6%	9%	6%
grade 3 events	335	1291	1132
	0%	3%	2%
grade 4 events	354	1356	1070
	1%	3%	2%
grade 5 events	1374	3794	2071
	4%	9%	5%
grade 6 events	850	9423	2997
	2%	24%	7%
grade 7 events	27854	17946	26978
	82%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-678	ACIS-678	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	169.388450	169.37417664739	Subarray requested	NONE	NONE
[deg] Pointing Dec	46.409558	46.393844005255	Alternating exposures requested	N	N
[deg] Pointing Roll	213.052499	213.20471014804	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	639643495.184000	639641732.97724			
Observation start date	2018-04-09T06:43:46	2018-04-09T06:15:32			
[s] Observation end time (MET)	639647495.184000	639648057.22761			
Observation end date	2018-04-09T07:50:26	2018-04-09T08:00:57			
Read mode	TIMED	TIMED			

2.3 Aspect



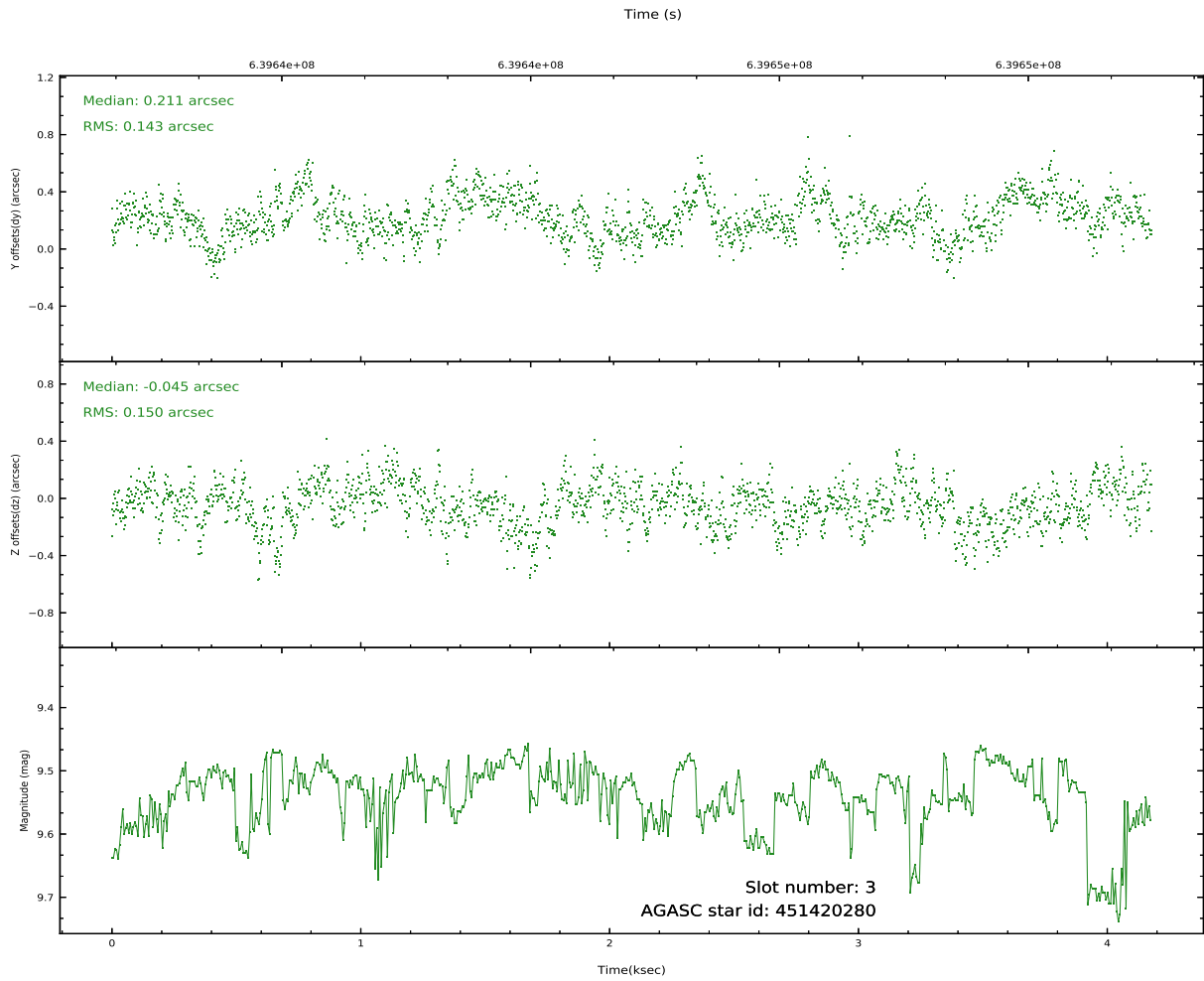
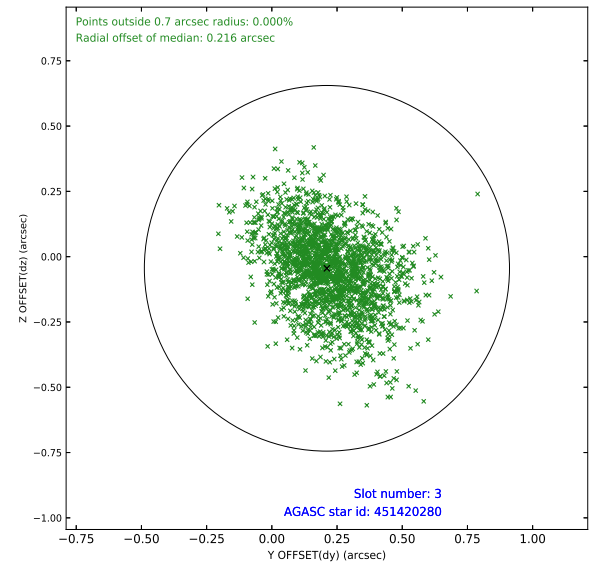
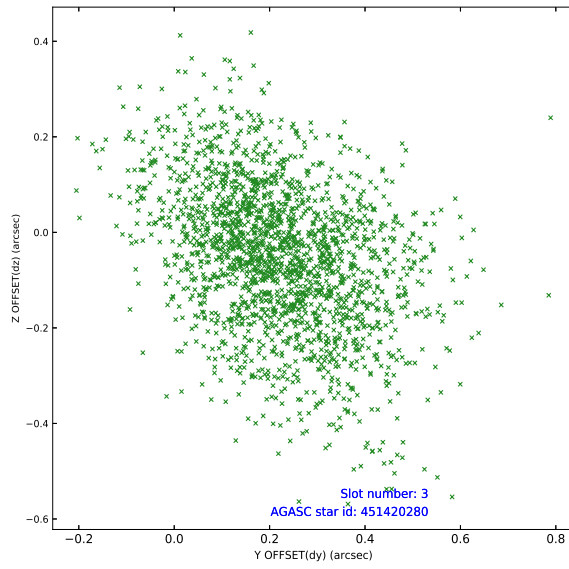


Slot Statistics

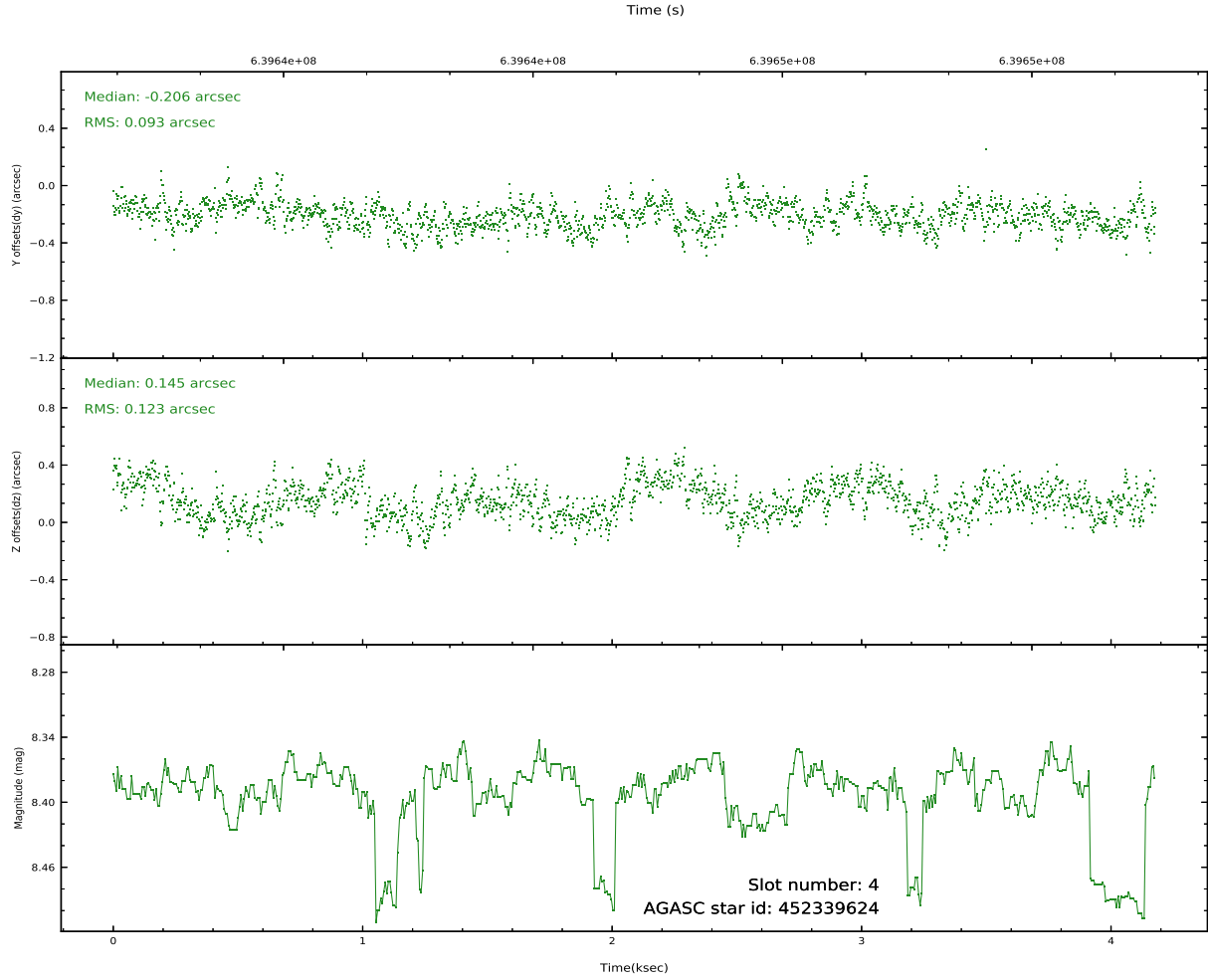
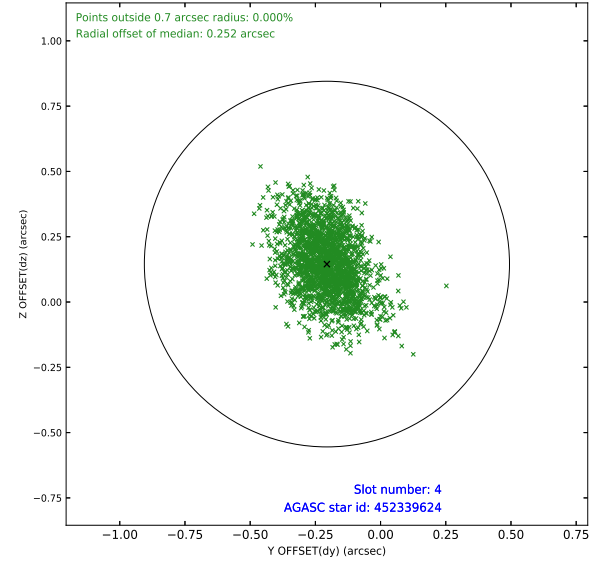
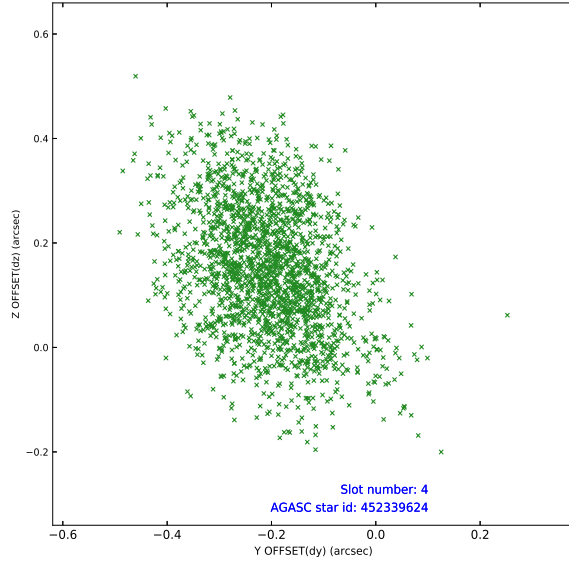
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1019	1.000	0.174	-0.121	0.008	0.014	0.000000	0.000000	-776.36	-1743
1	FID		ACIS-S-4	7.21	1019	1.000	0.097	-0.051	0.008	0.015	0.000000	0.000000	2136.46	163
2	FID		ACIS-S-5	7.21	1020	1.000	-0.303	0.180	0.008	0.014	0.000000	0.000000	-1827.48	159
3	GUIDE	used	451420280	9.53	2034	1.000	0.211	-0.045	0.218	0.365	168.475442	46.581390	1550.53	-1760
4	GUIDE	used	452339624	8.39	2036	1.000	-0.206	0.145	0.163	0.276	170.345157	46.444263	-2063.69	1176
5	GUIDE	used	452341304	9.44	2038	1.000	-0.000	0.001	0.181	0.295	169.277208	46.194331	654.67	499
6	GUIDE	used	452342656	9.08	2038	1.000	-0.058	0.069	0.224	0.369	169.610248	45.866072	605.23	1945
7	GUIDE	used	452342296	8.23	2037	1.000	0.063	-0.156	0.198	0.333	168.899528	45.849717	2126.08	1018

2.4 Star Slots

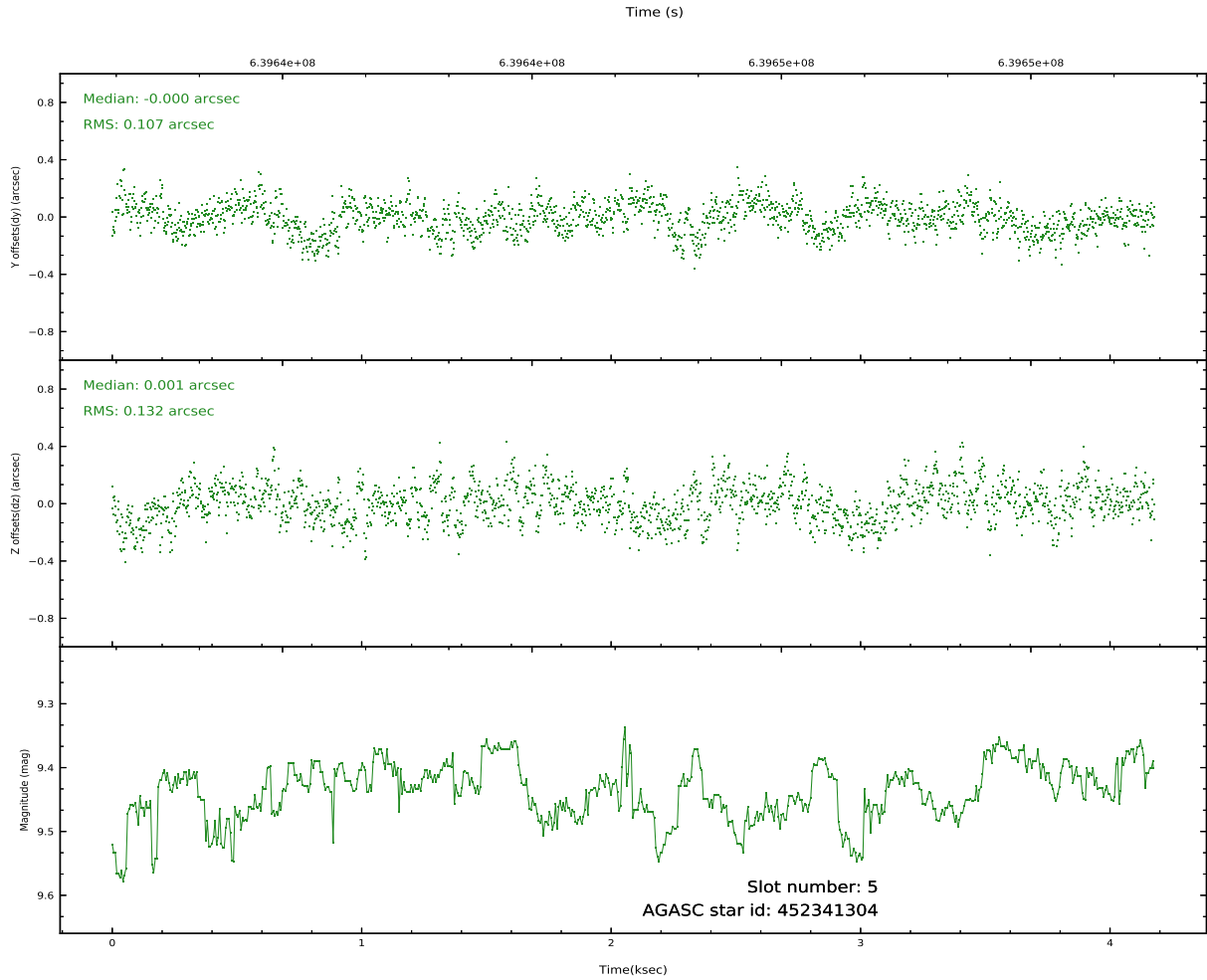
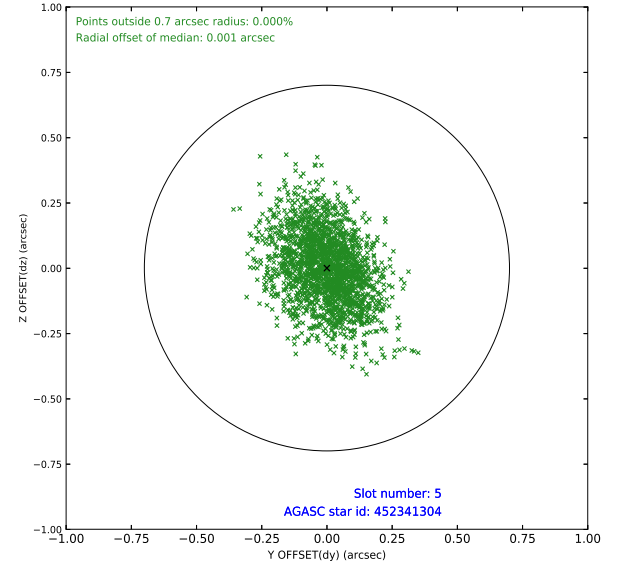
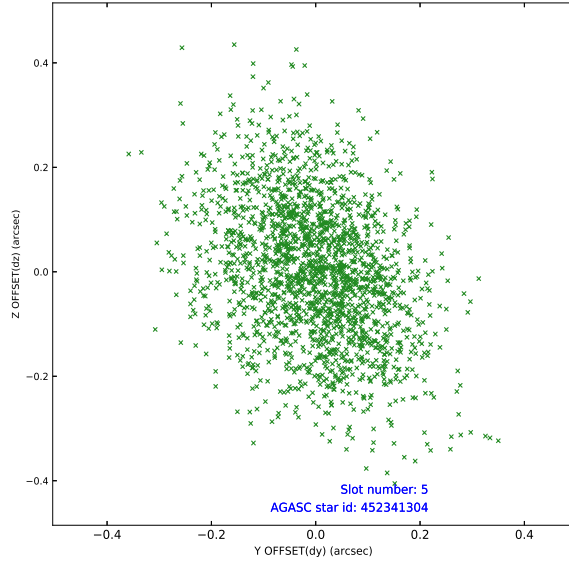
2.4.1 Slot 3



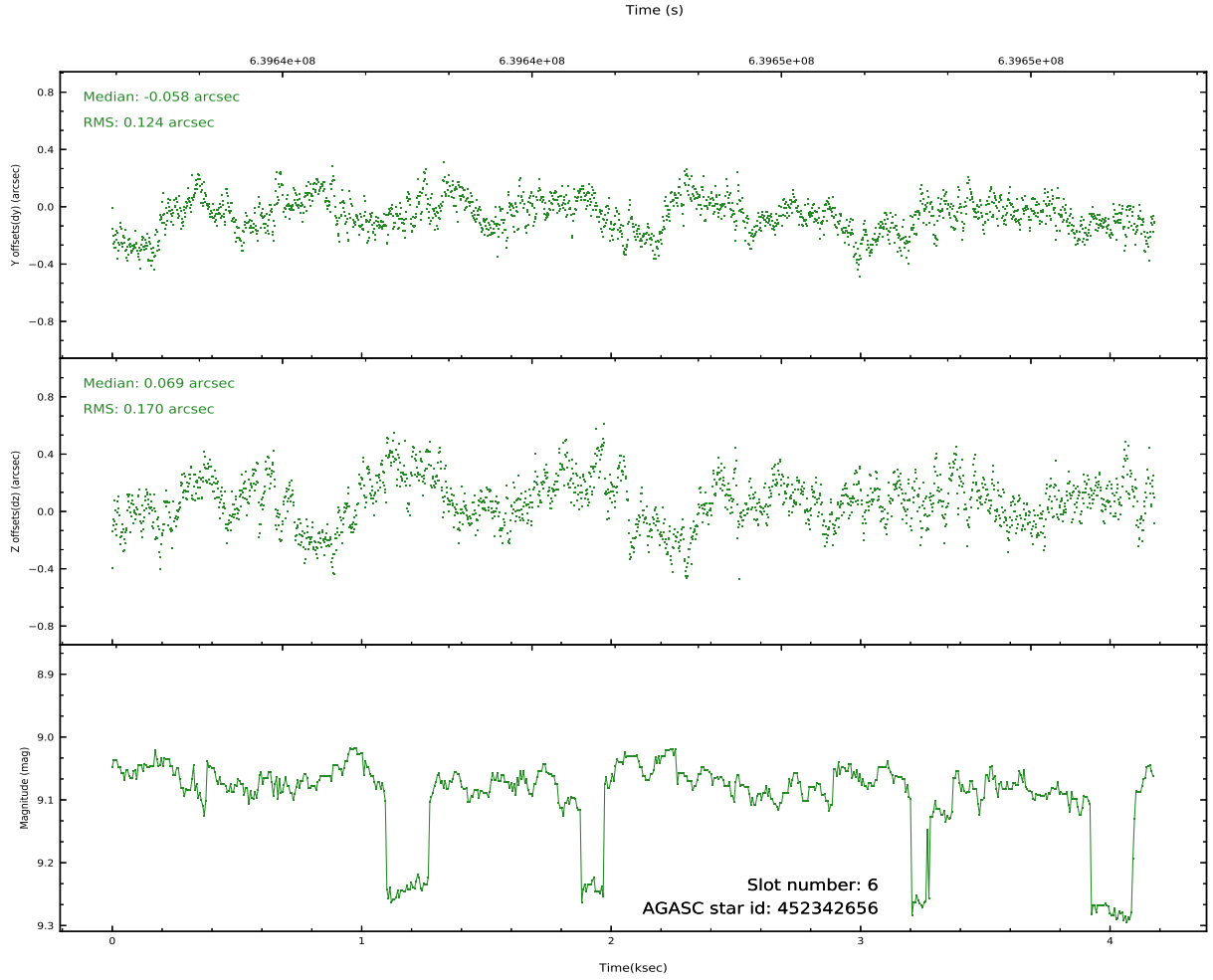
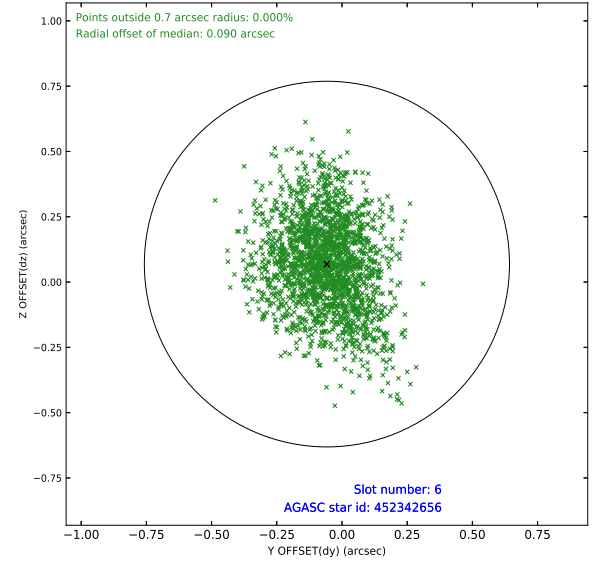
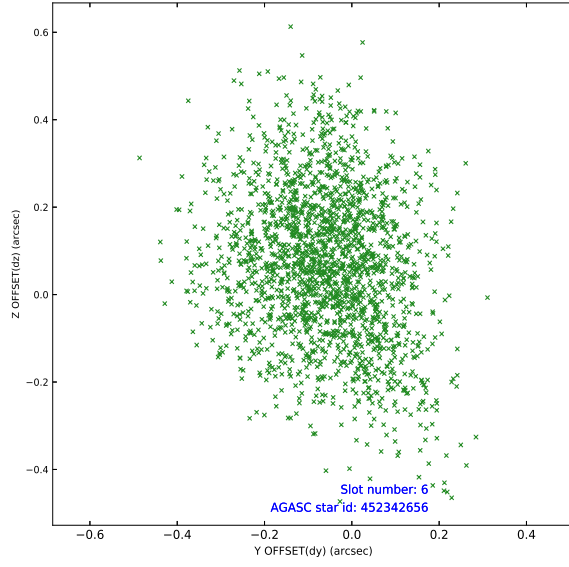
2.4.2 Slot 4



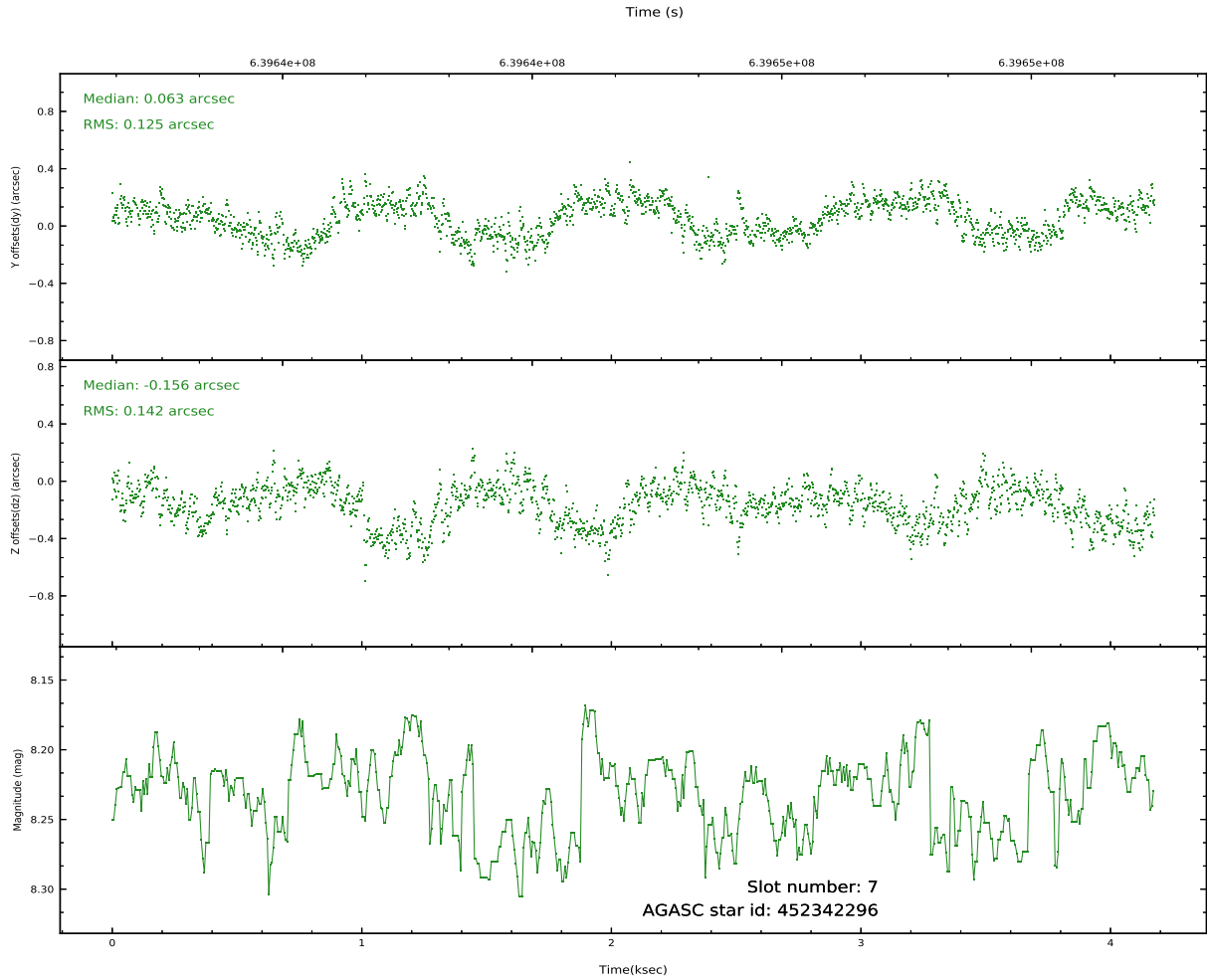
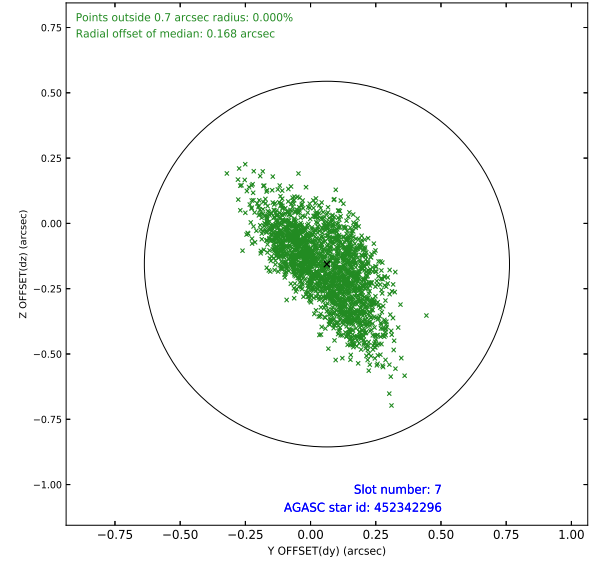
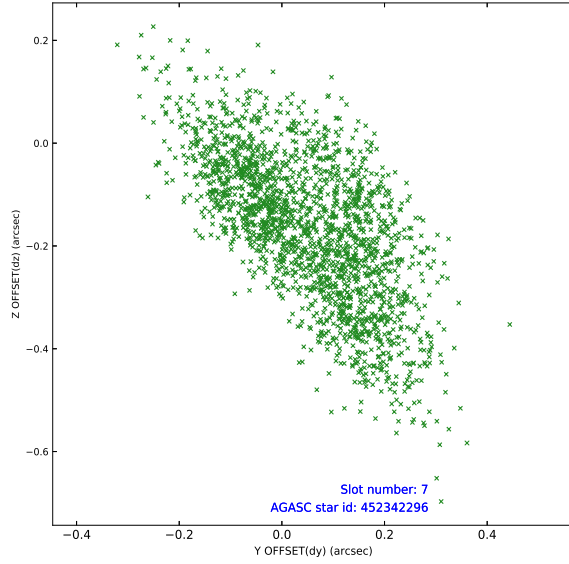
2.4.3 Slot 5



2.4.4 Slot 6

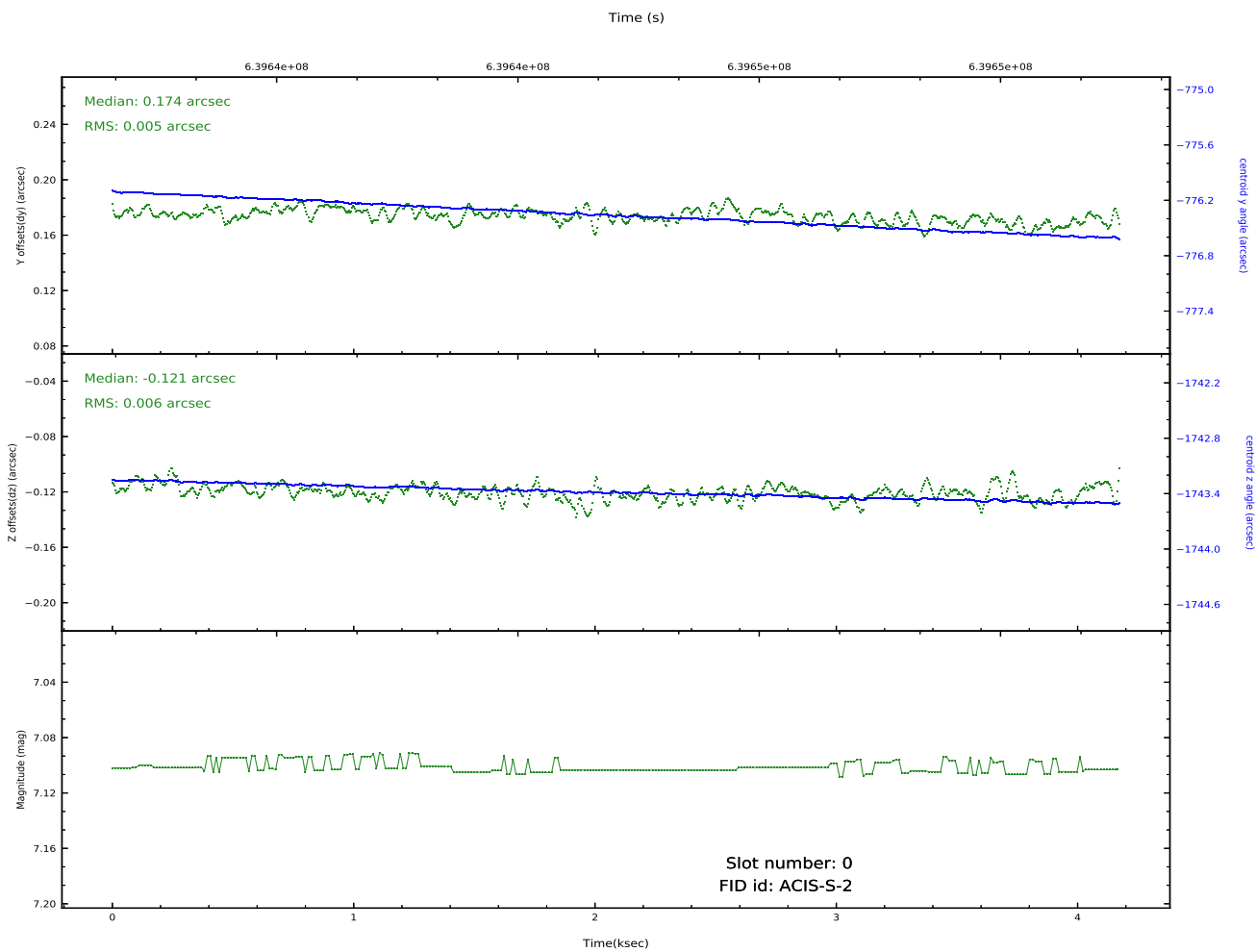
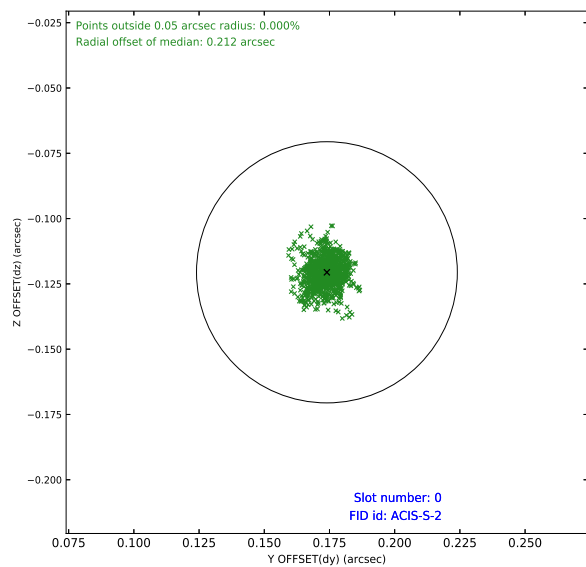
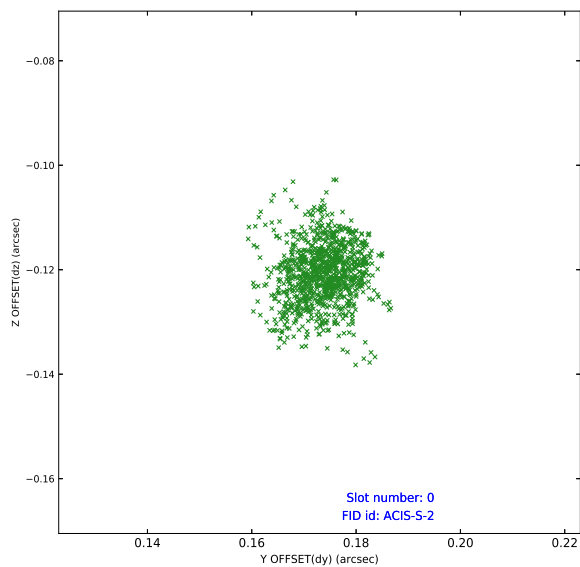


2.4.5 Slot 7

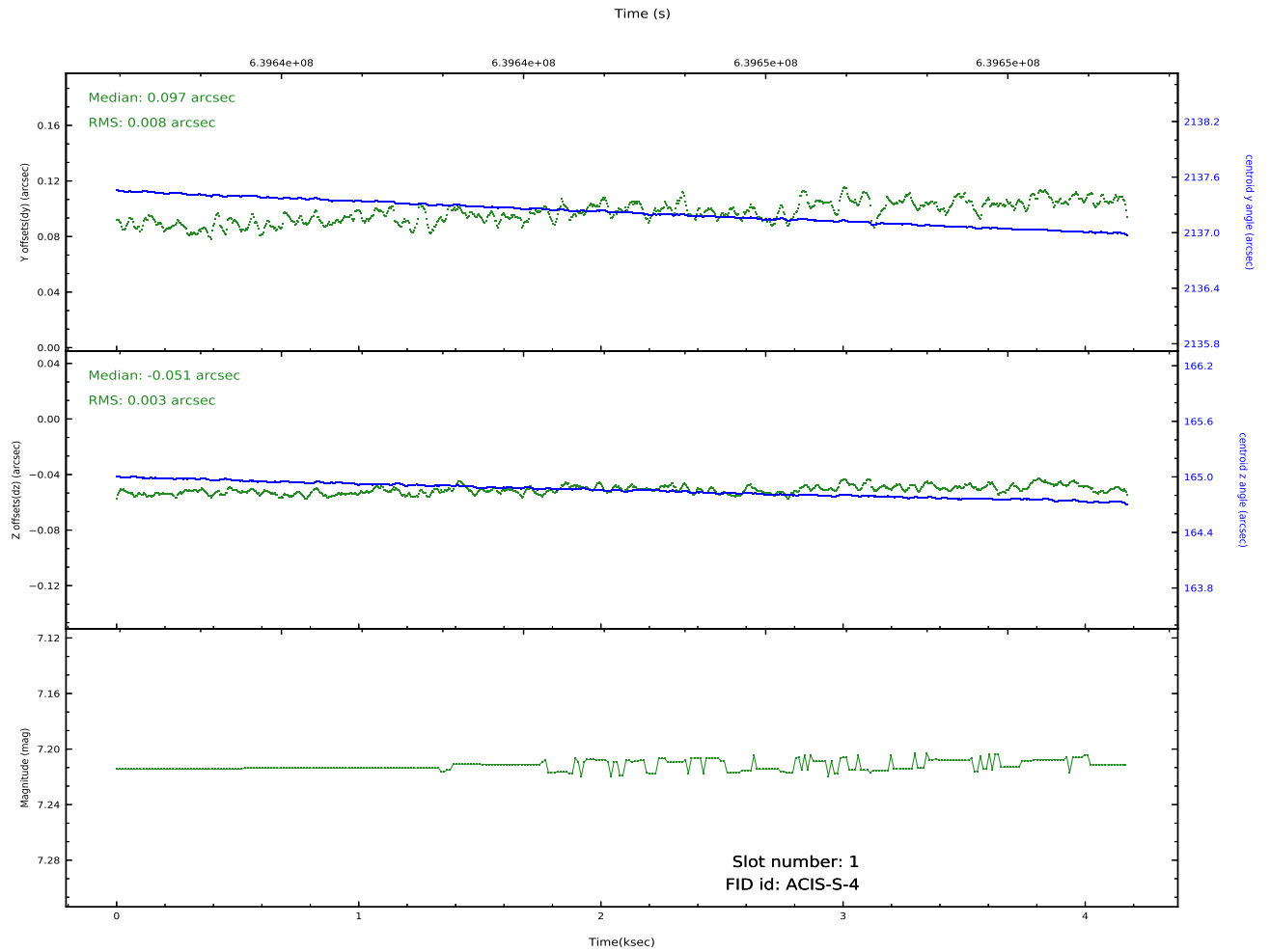
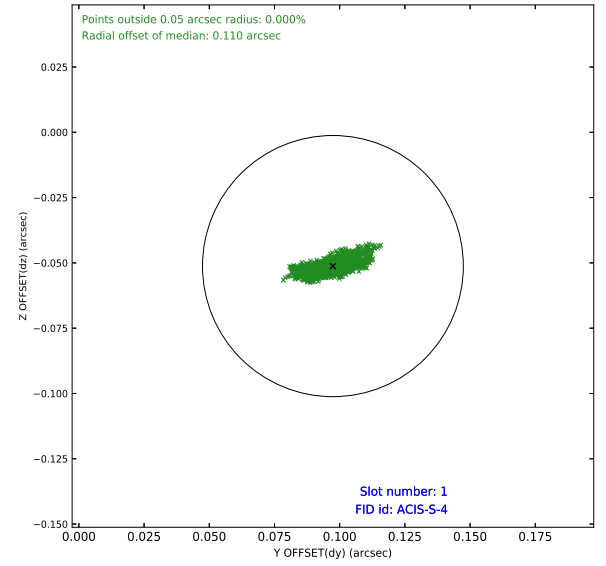
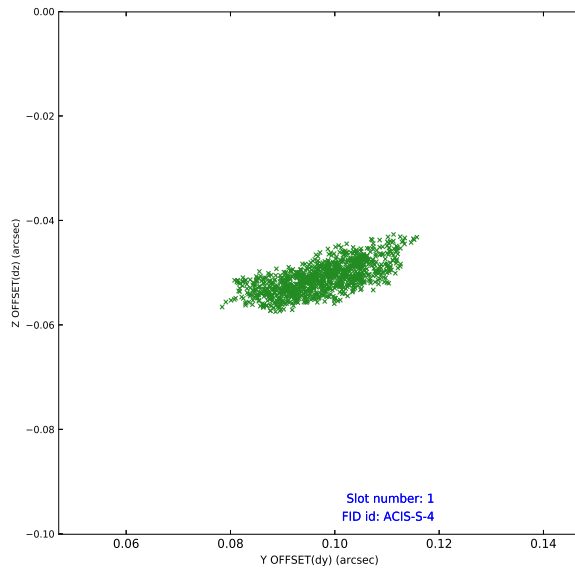


2.5 FID Slots

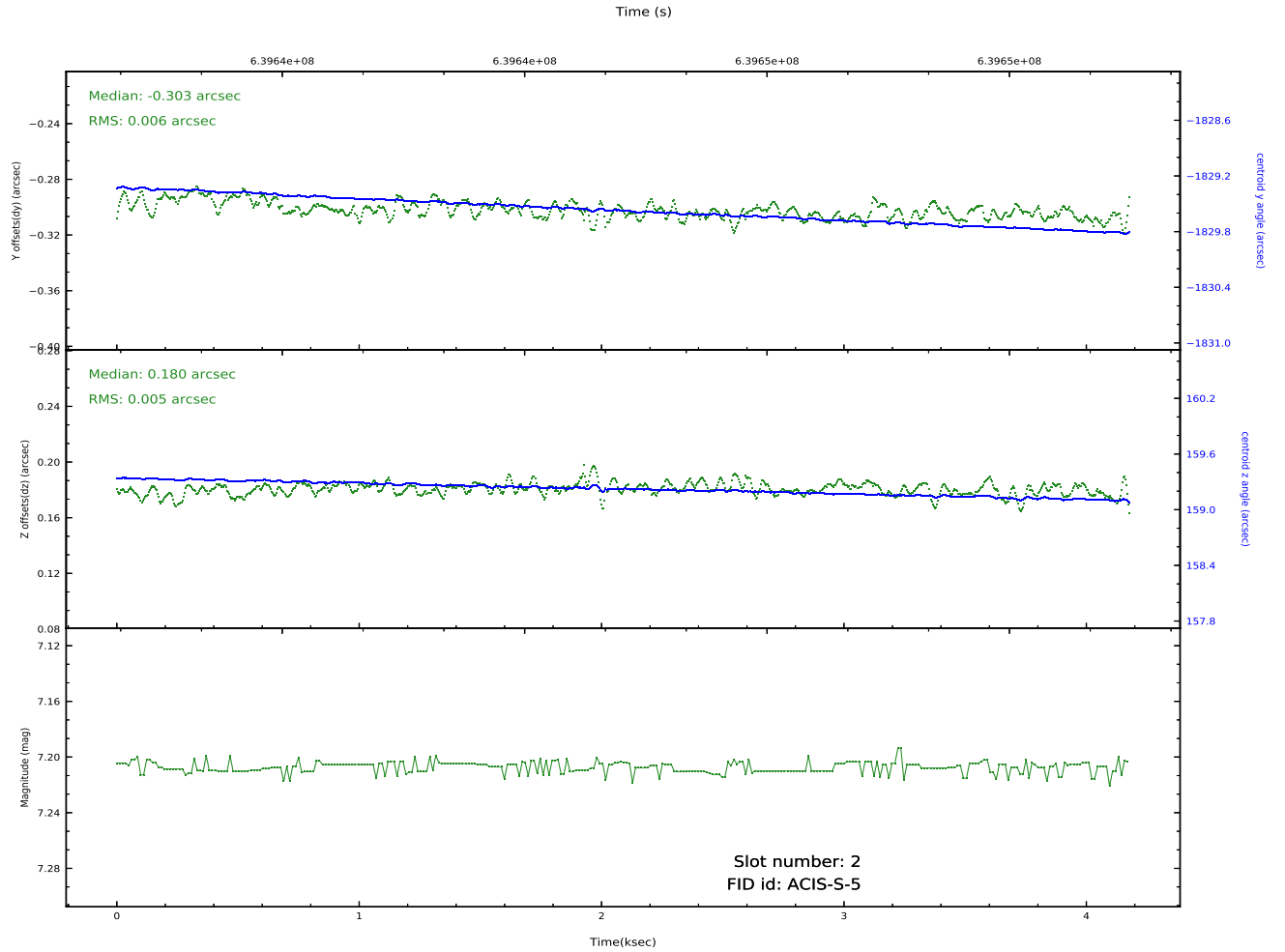
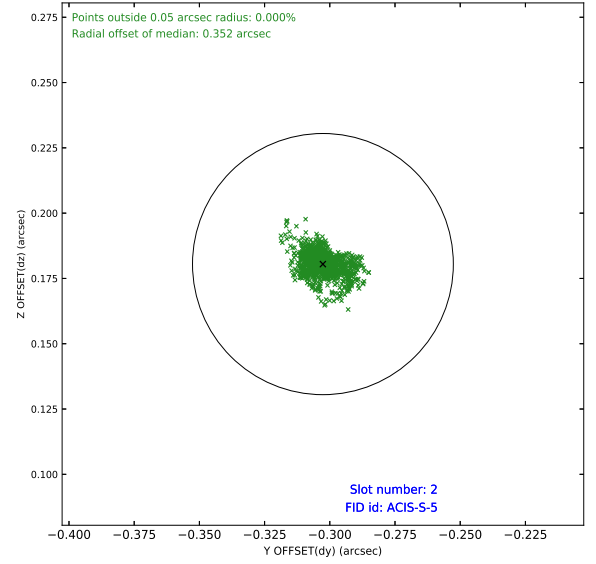
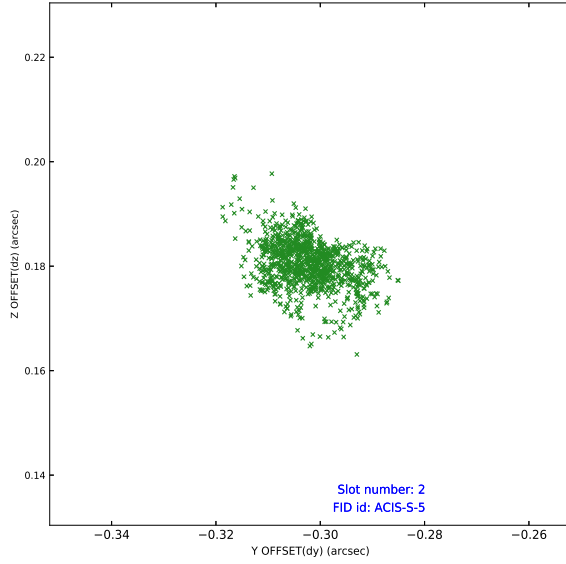
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1102178736925

A.2 Comments