

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20396 - L2 Version 2
Chandra X-Ray Center

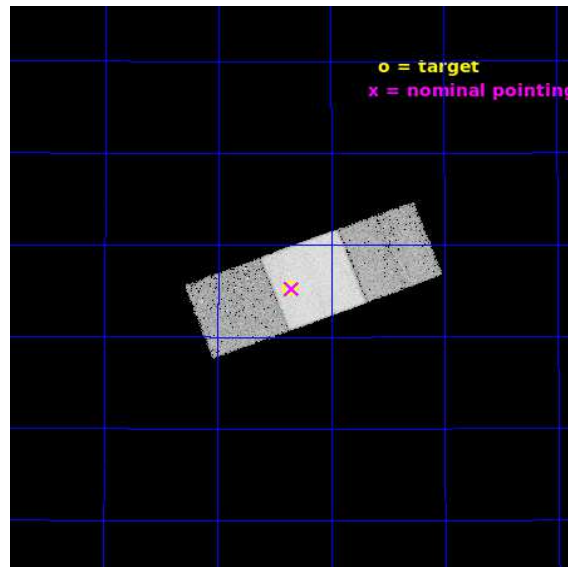
L2 Processing Date : Oct 28 2020

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1 Front

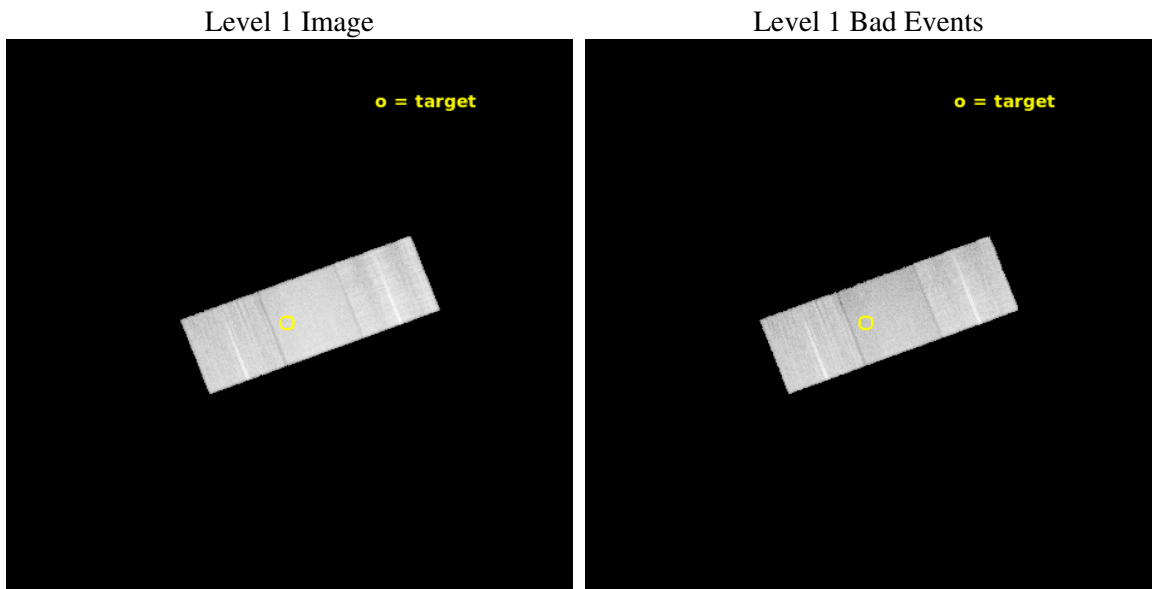
seq_num	703501	Sequence number
obs_id	20396	Observation id
title	A Reliable X-ray View of the First Quasars	Proposal title
observer	William Brandt	Principal investigator
object	CFHQS J1641+3755	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	250.34	Observer's specified target RA [deg]
dec_targ	37.922361	Observer's specified target Dec [deg]
ra_nom	250.3363776431	Nominal RA [deg]
dec_nom	37.920839423903	Nominal Dec [deg]
roll_nom	339.13806813095	Nominal Roll [deg]
revision	2	Processing version of data
ontime	21109.687568069	Sum of GTIs [s]
livetime	20833.873959266	Livetime [s]
ontime6	21109.646528125	Sum of GTIs [s]
ontime7	21109.687568069	Sum of GTIs [s]
ontime8	21109.605488062	Sum of GTIs [s]
l2events	115694	Number of level 2 events



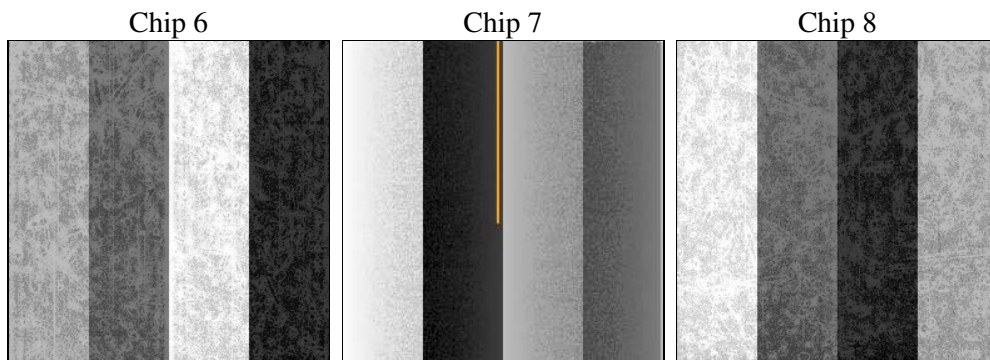
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	21109.687568069	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	21109.646528125	Sum of GTIs [s]
date	2020-10-28T04:54:15	Date and time of file creation	ontime7	21109.687568069	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	21109.605488062	Sum of GTIs [s]
			l1events	563940	Number of level 1 events

2.1.4 Events

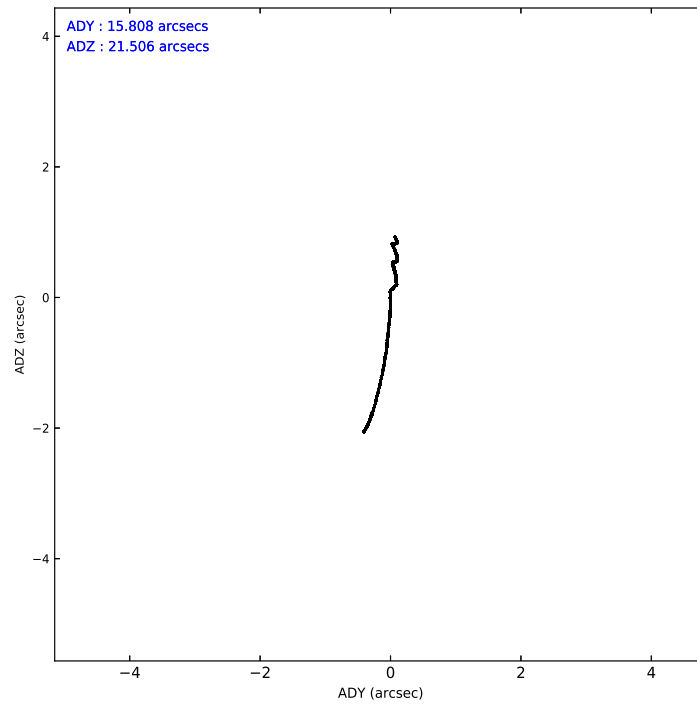
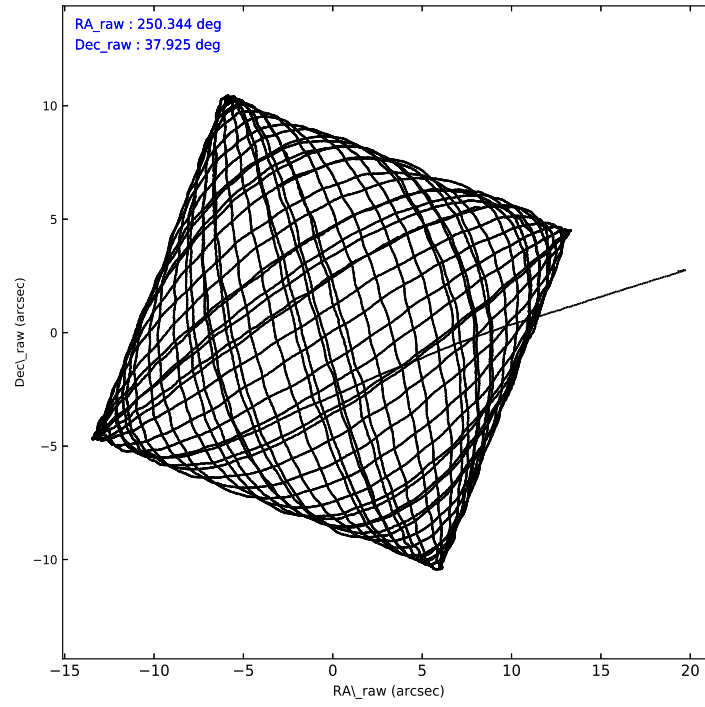
	ccd 6	ccd 7	ccd 8
level 1 events	159588	197220	207132
rejected events	141736	111737	152032
rejected %	88%	56%	73%

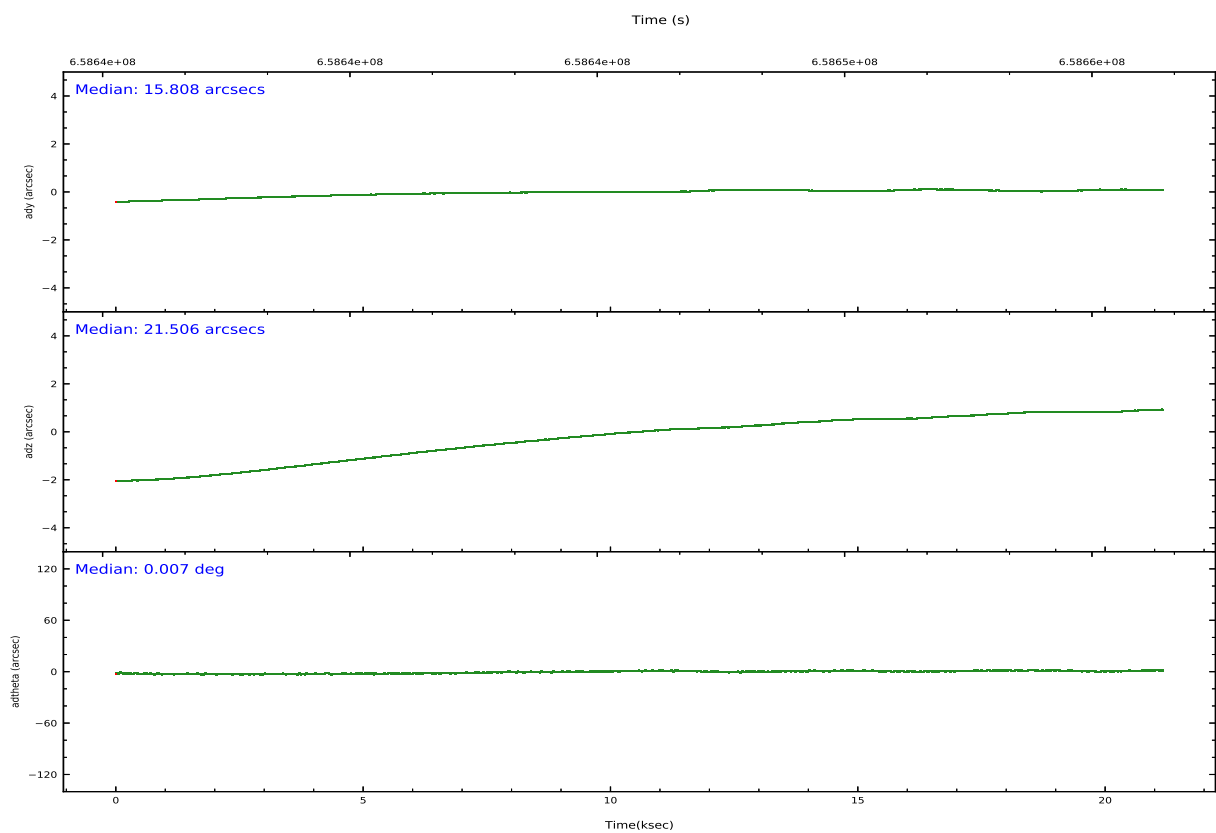
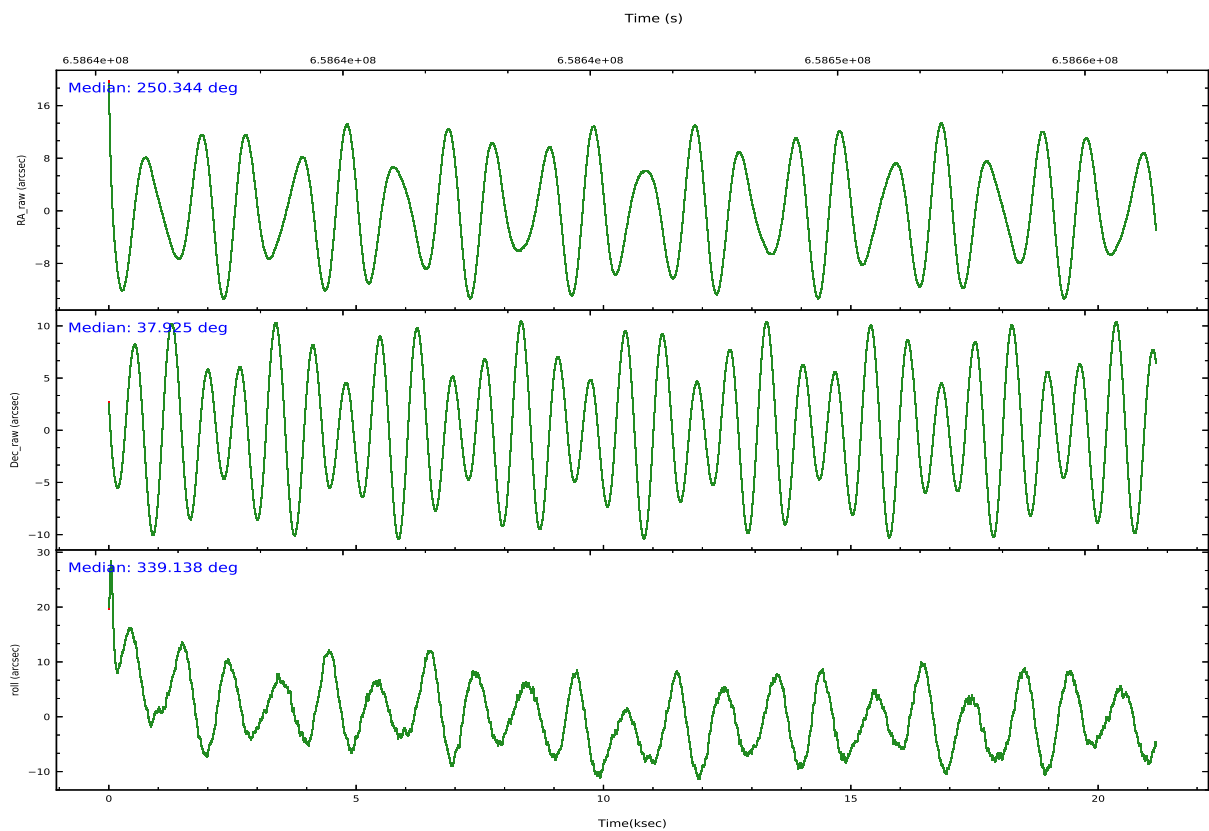
	ccd 6	ccd 7	ccd 8
grade 0 events	5603	6999	15334
	3%	3%	7%
grade 1 events	81	256	154
	0%	0%	0%
grade 2 events	4446	18067	13561
	2%	9%	6%
grade 3 events	1650	6714	5634
	1%	3%	2%
grade 4 events	1614	6597	5177
	1%	3%	2%
grade 5 events	6838	18873	10765
	4%	9%	5%
grade 6 events	4540	47124	15443
	2%	23%	7%
grade 7 events	134816	92590	141064
	84%	46%	68%

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	250.310565	250.3363776431	Subarray requested	NONE	NONE
[deg] Pointing Dec	37.920296	37.920839423903	Alternating exposures requested	N	N
[deg] Pointing Roll	339.018095	339.13806813095	[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)	658635440.184000	658634184.17053			
Observation start date	2018-11-15T02:16:11	2018-11-15T01:56:24			
[s] Observation end time (MET)	658656440.184000	658657252.3094			
Observation end date	2018-11-15T08:06:11	2018-11-15T08:20:52			
Read mode	TIMED	TIMED			

2.3 Aspect



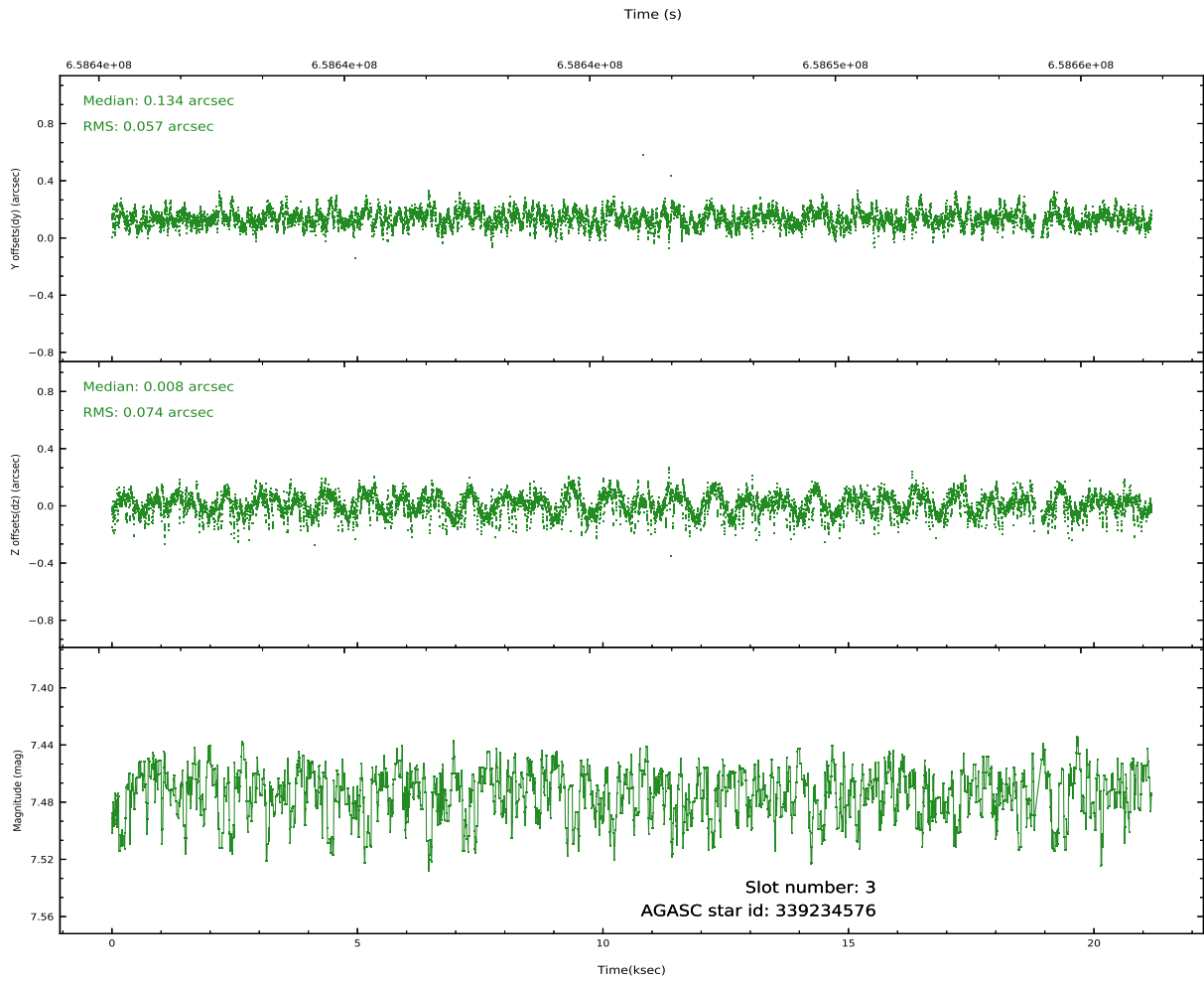
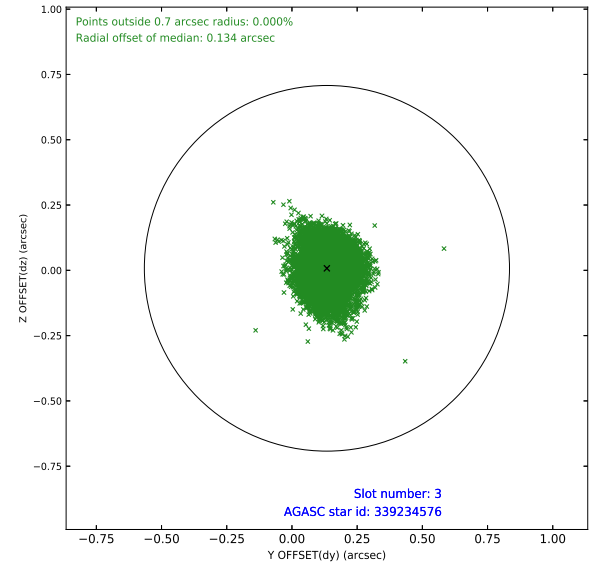
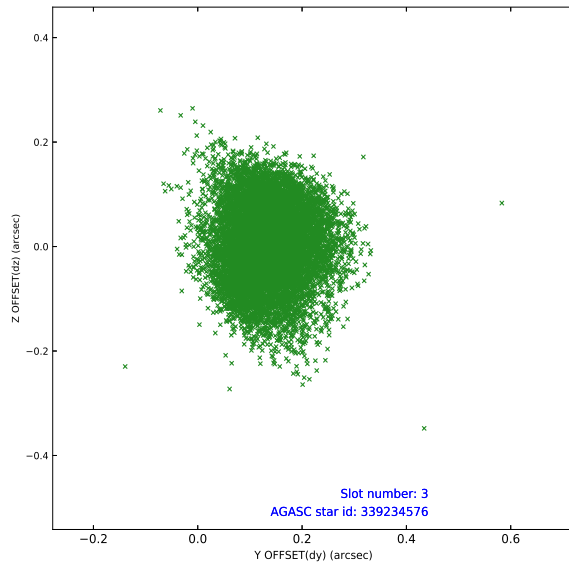


Slot Statistics

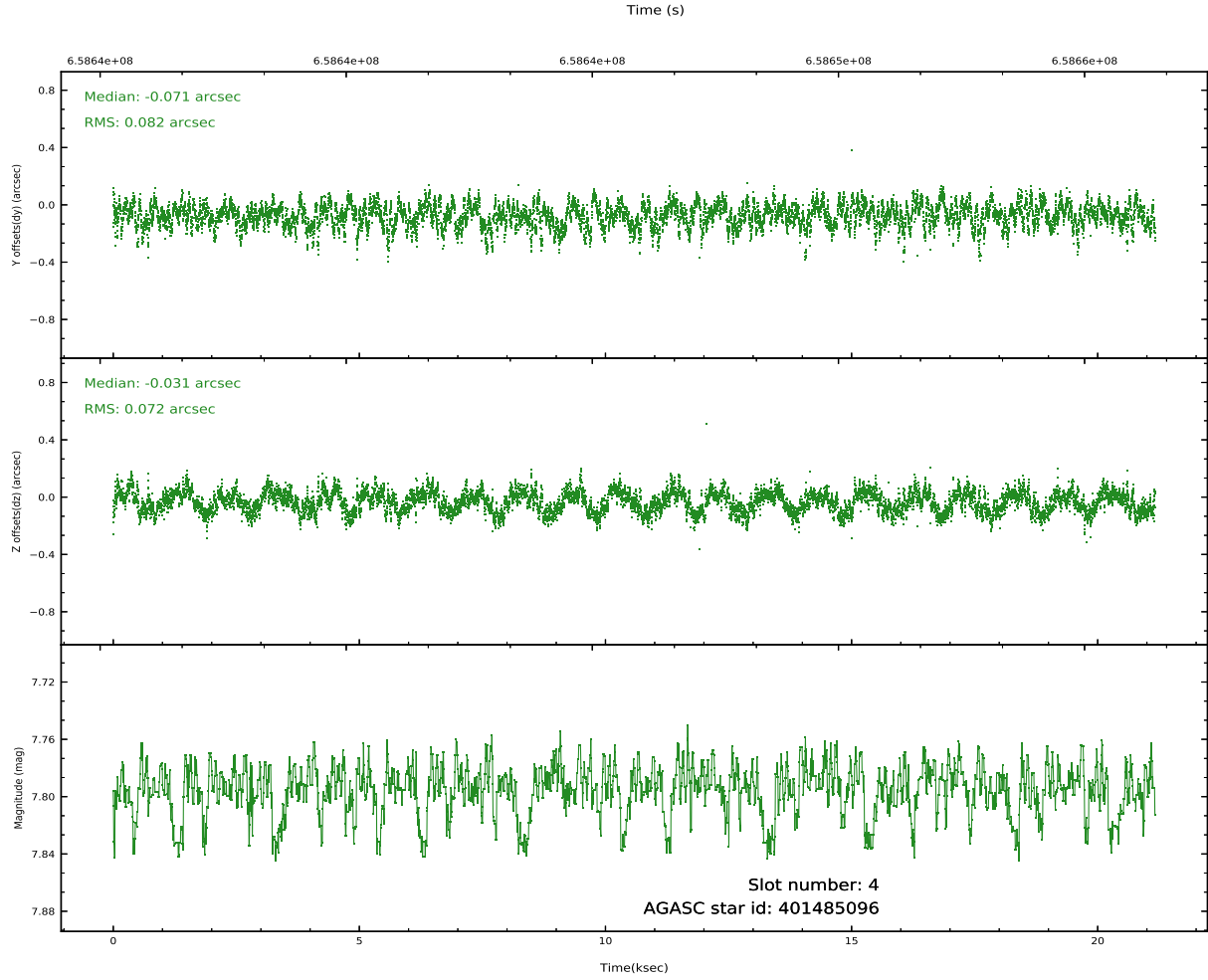
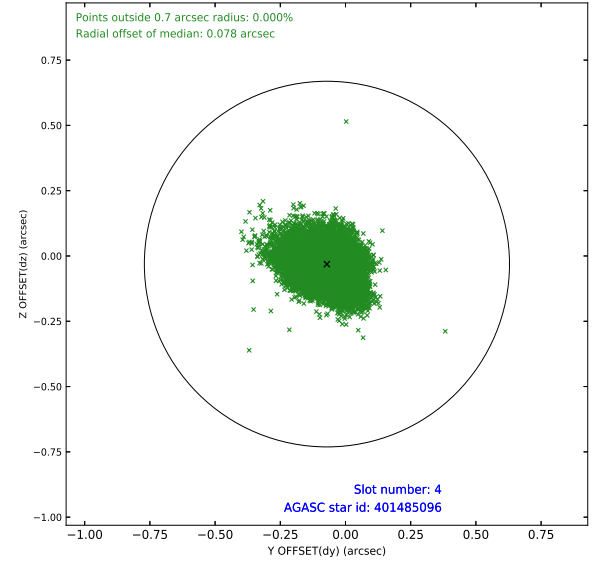
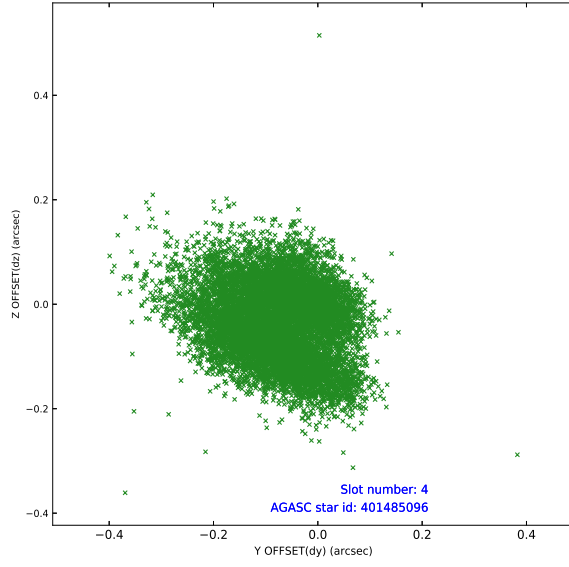
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.13	5165	1.000	0.184	-0.181	0.017	0.034	0.000000	0.000000	-768.92	-1742
1	FID		ACIS-S-4	7.25	5164	1.000	0.145	-0.040	0.028	0.046	0.000000	0.000000	2144.62	165
2	FID		ACIS-S-5	7.22	5165	1.000	-0.360	0.231	0.023	0.043	0.000000	0.000000	-1821.72	160
3	GUIDE	used	339234576	7.47	10262	1.000	0.134	0.008	0.101	0.158	250.064309	37.355649	71.08	-2148
4	GUIDE	used	401485096	7.79	10326	1.000	-0.071	-0.031	0.115	0.184	249.787309	38.344987	-1927.81	902
5	GUIDE	used	402397208	9.39	10301	1.000	-0.036	-0.288	0.236	0.379	250.508556	38.399382	-95.78	1811
6	GUIDE	used	339236368	7.23	10329	1.000	0.045	0.164	0.138	0.219	249.361029	37.490351	-1981.42	-2402
7	GUIDE	used	401485496	8.49	10315	1.000	-0.065	0.158	0.094	0.163	249.648397	38.326452	-2271.45	702

2.4 Star Slots

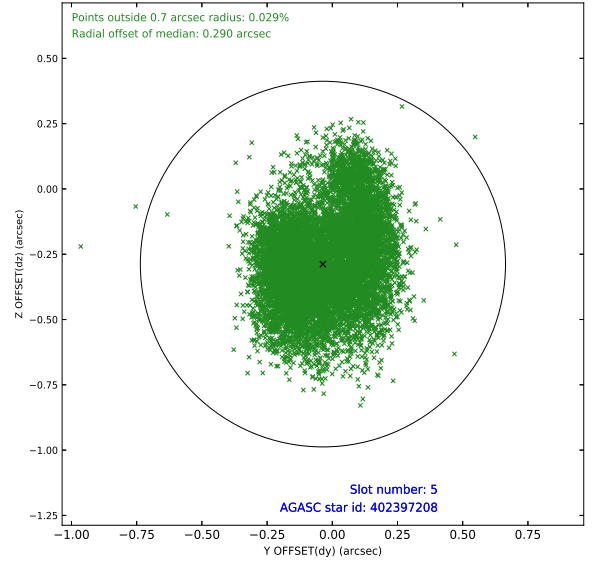
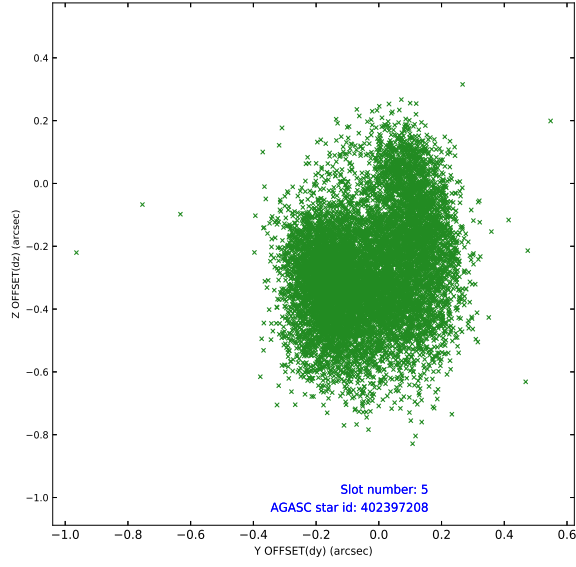
2.4.1 Slot 3



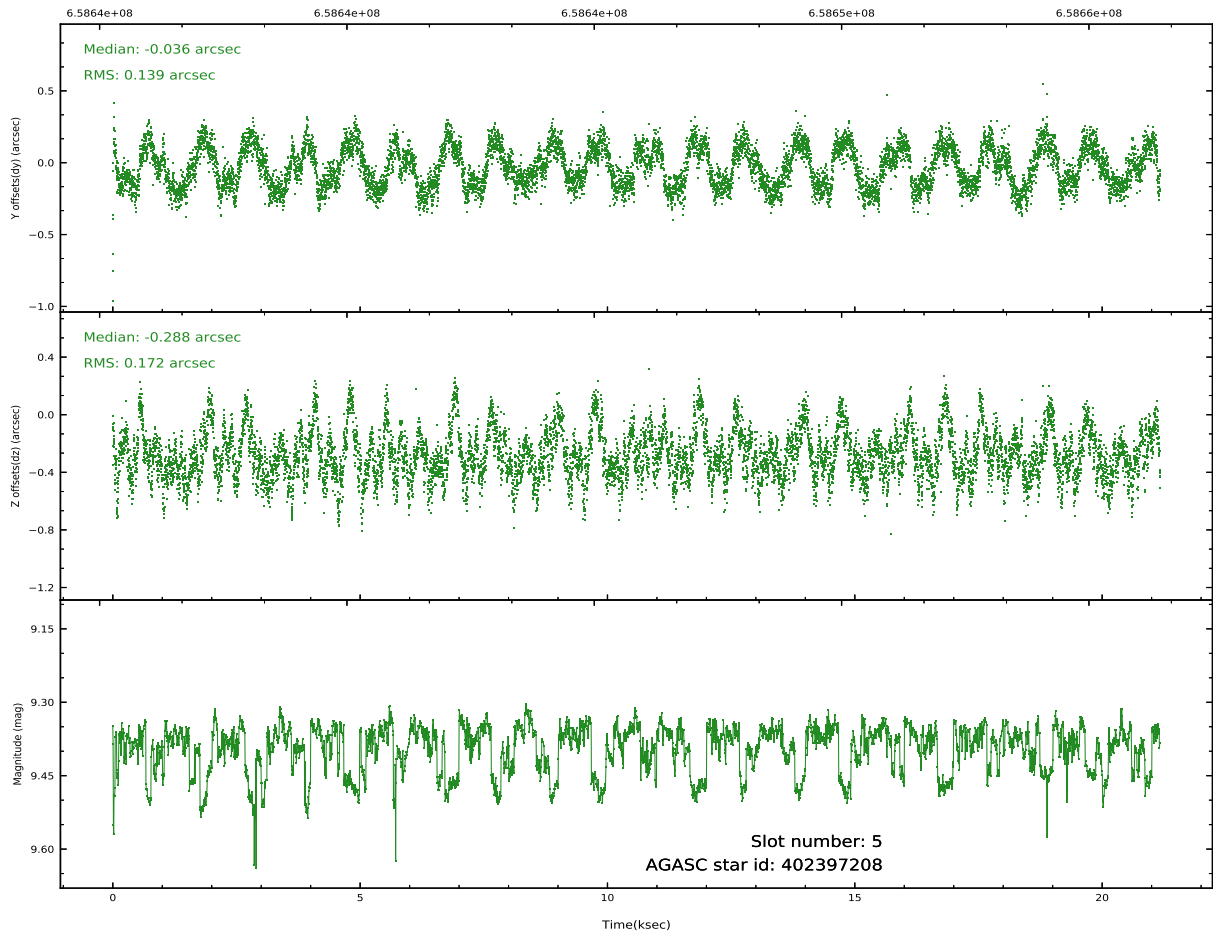
2.4.2 Slot 4



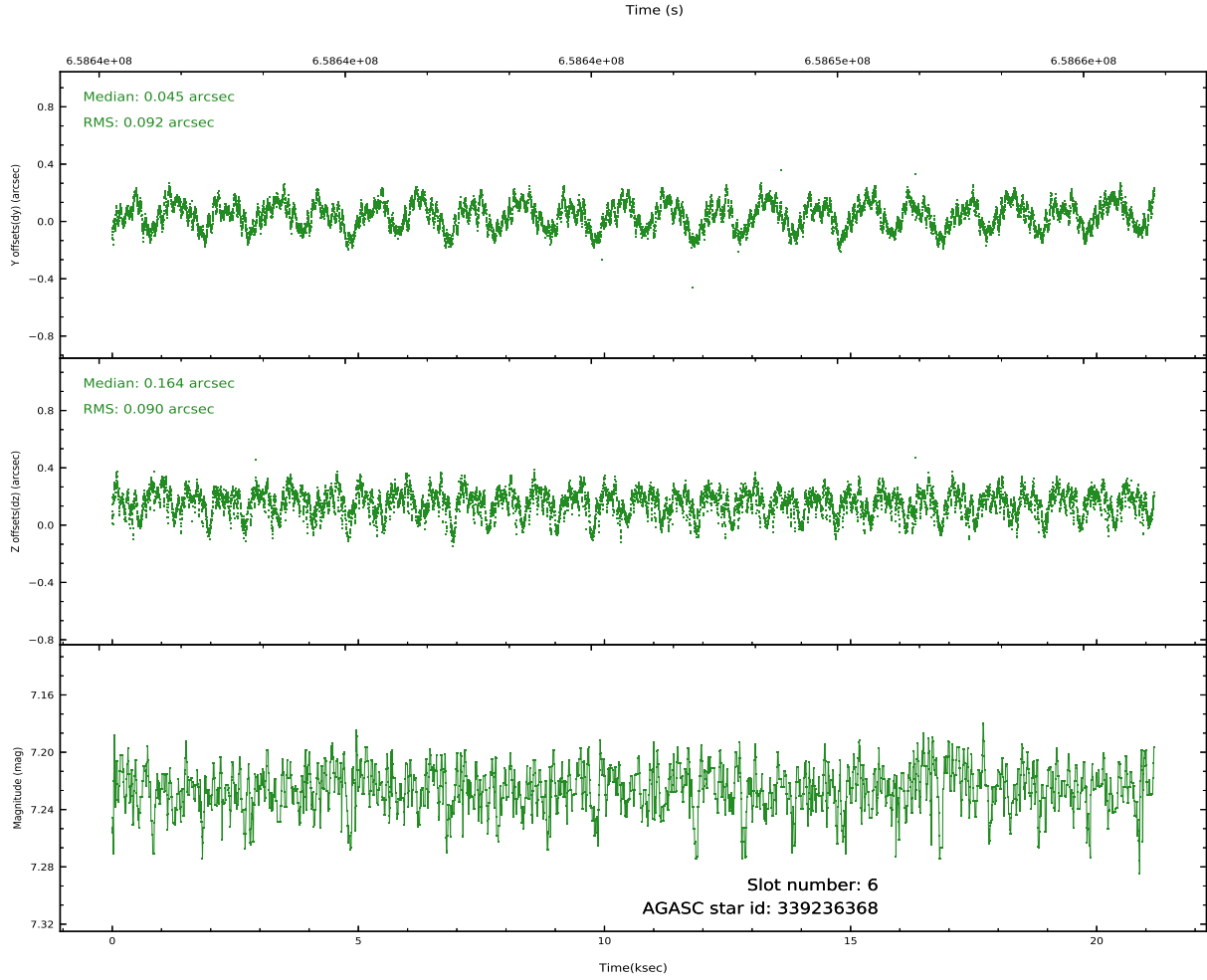
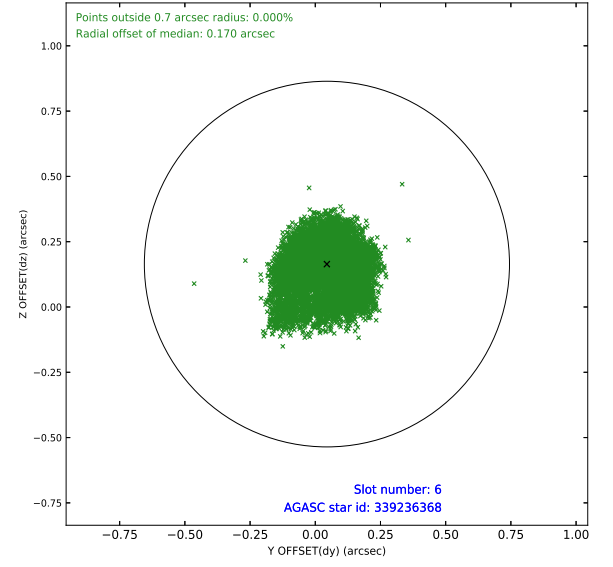
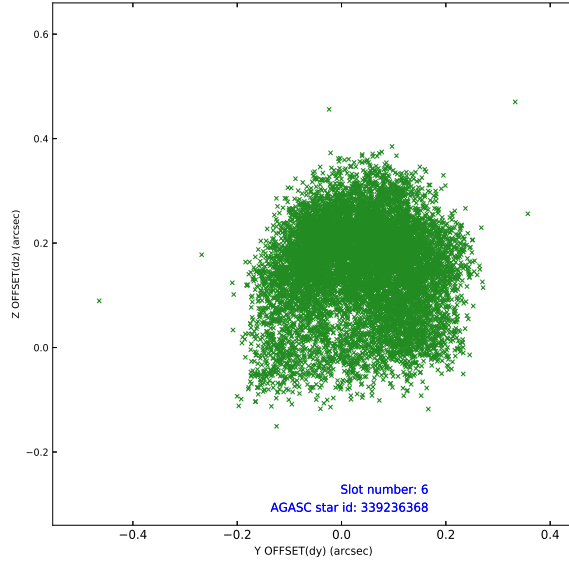
2.4.3 Slot 5



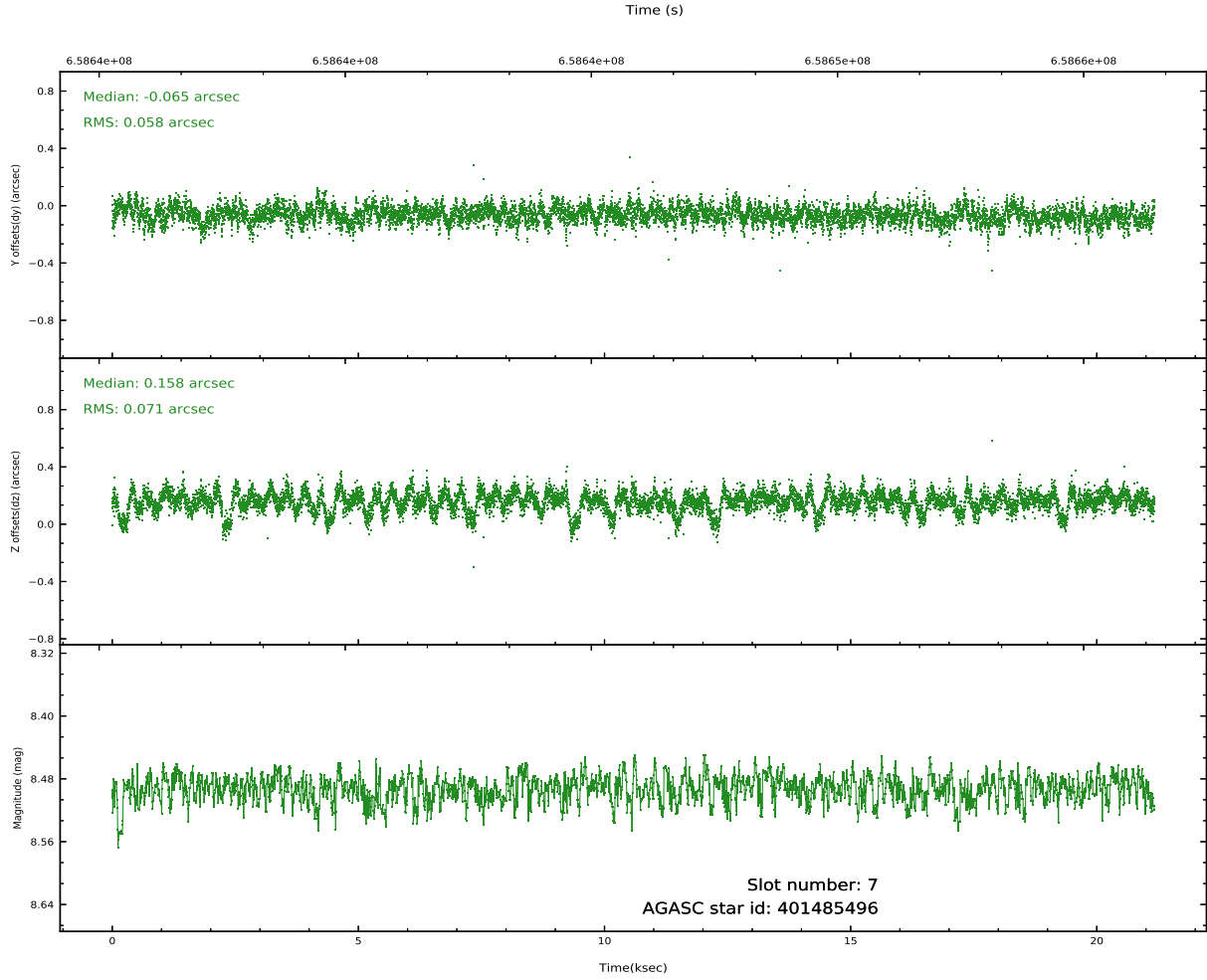
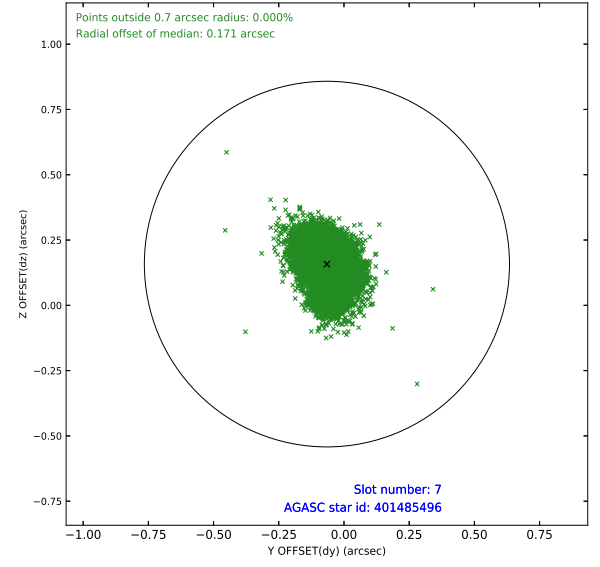
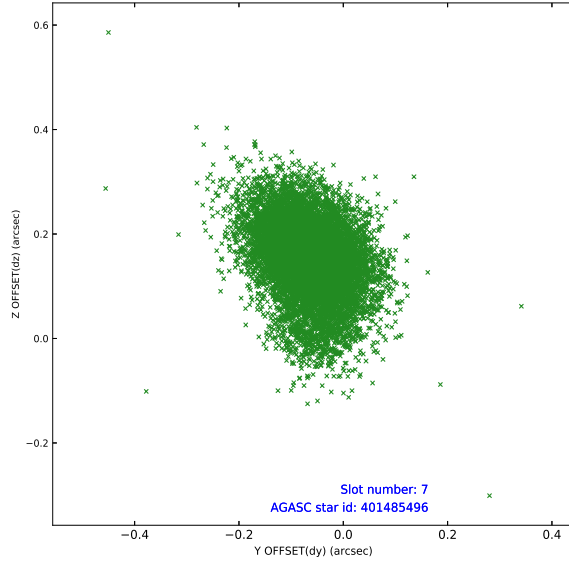
Time (s)



2.4.4 Slot 6

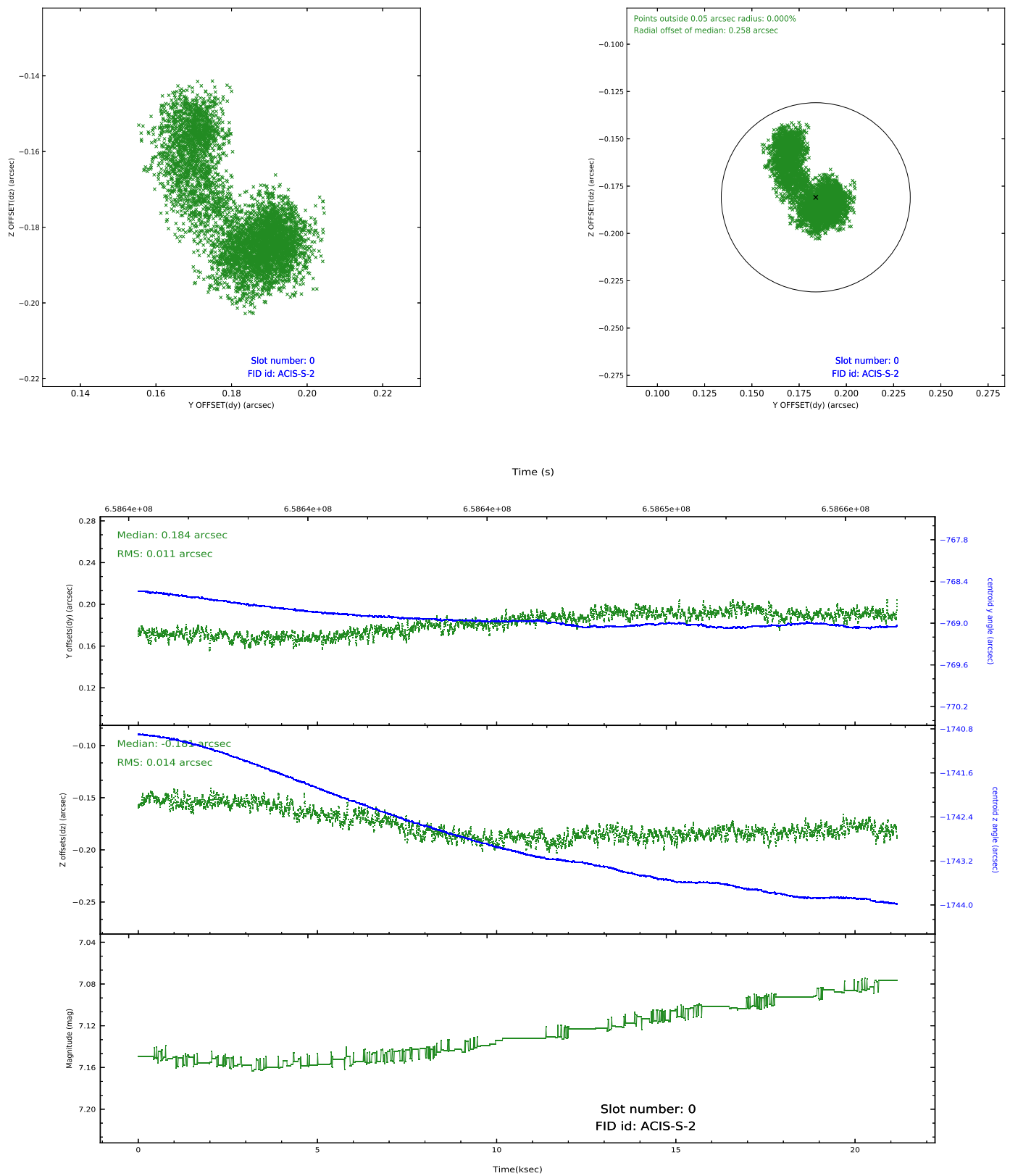


2.4.5 Slot 7

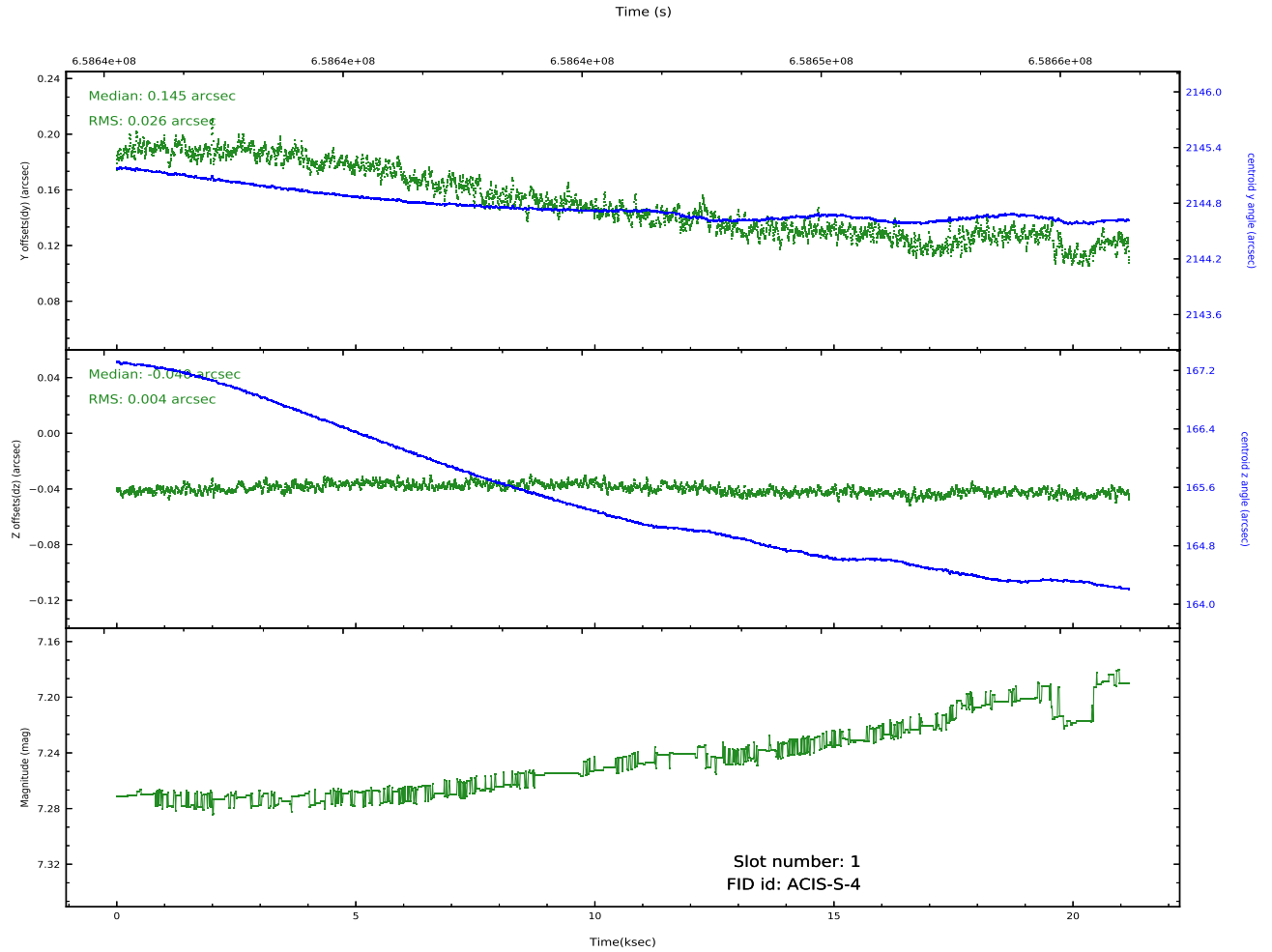
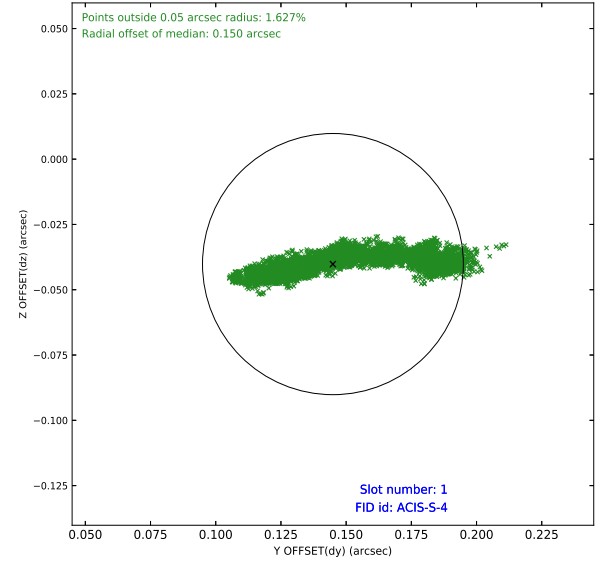
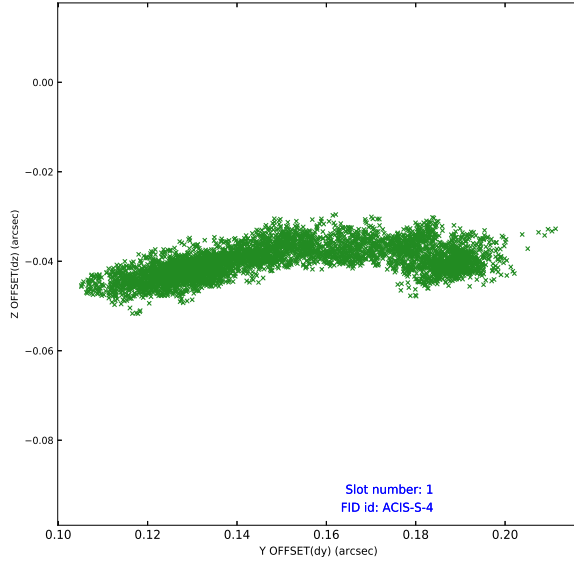


2.5 FID Slots

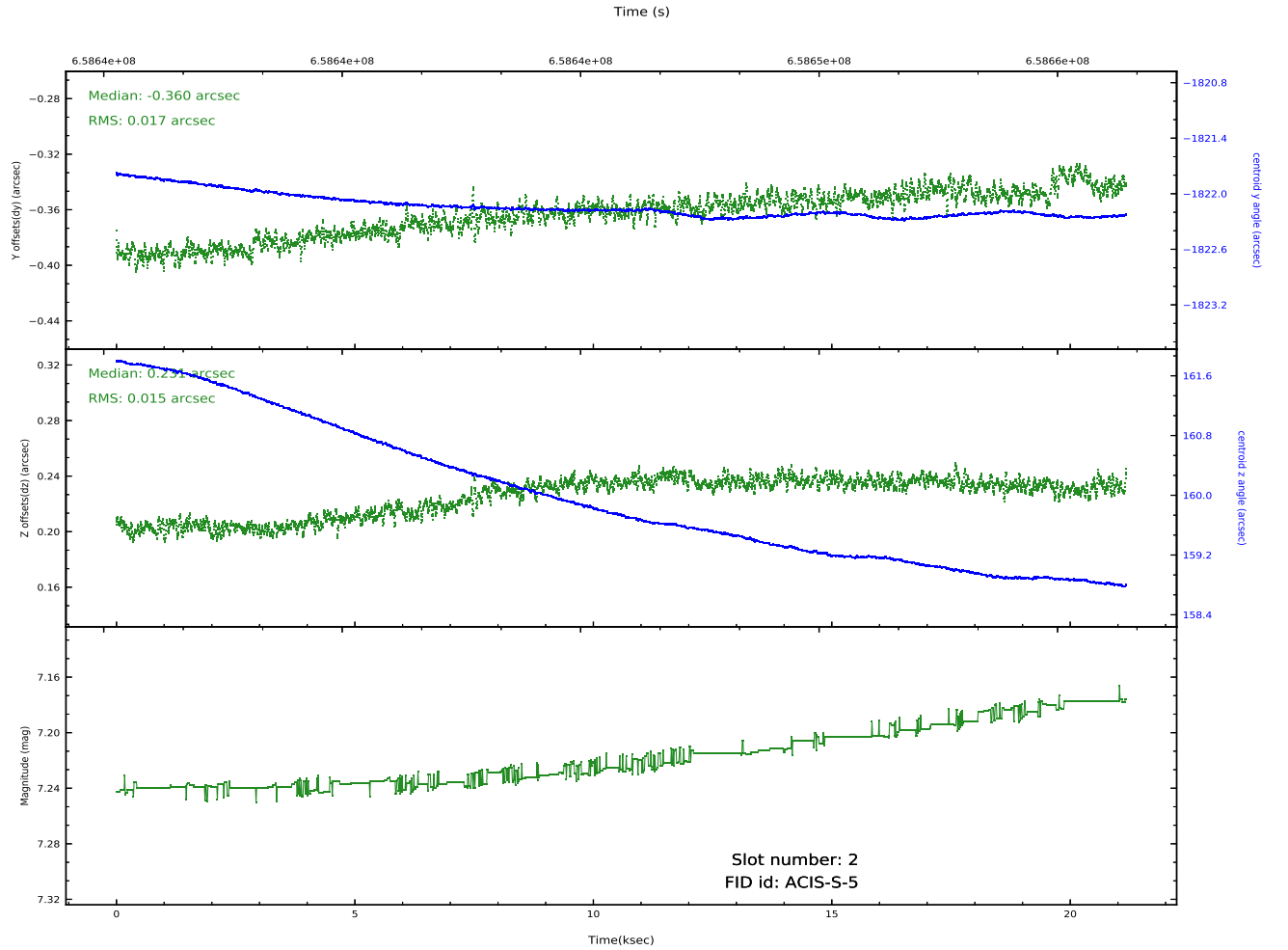
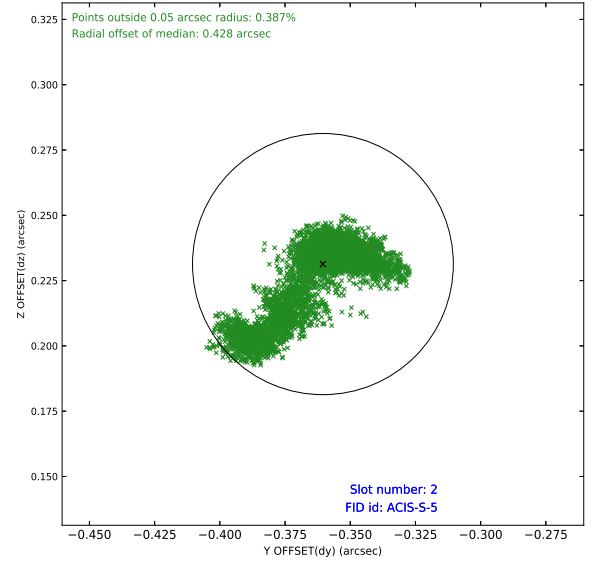
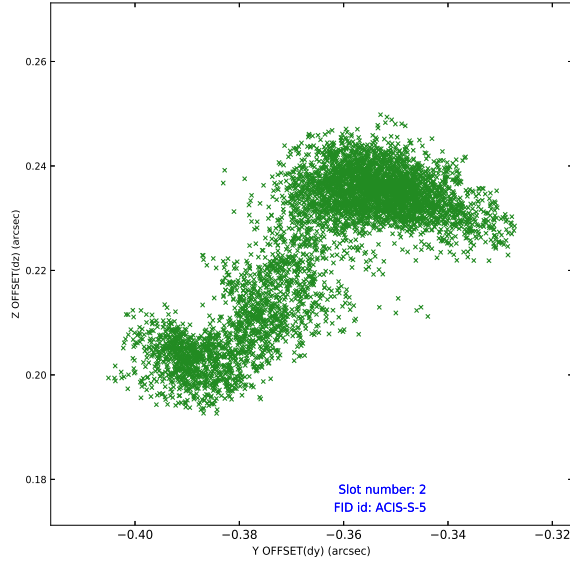
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.1096875633

A.2 Comments