

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20402 - L2 Version 3
Chandra X-Ray Center

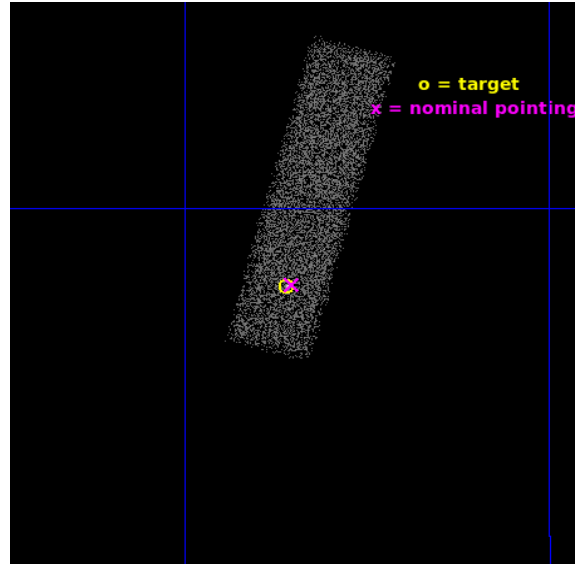
L2 Processing Date : Oct 26 2020

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 6	11
2.4.4	Slot 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

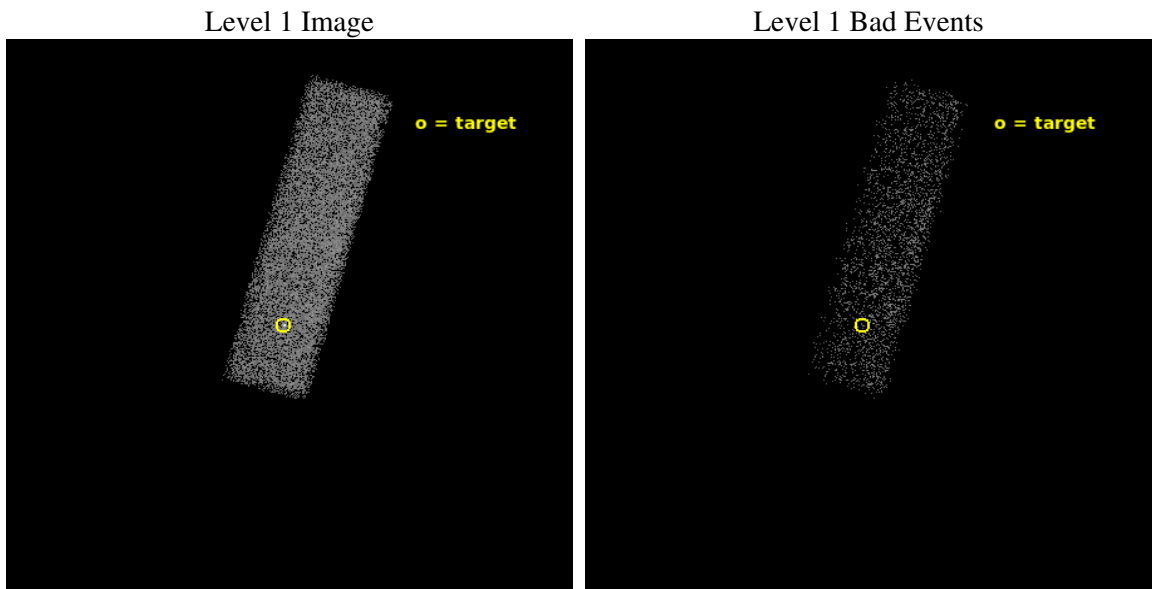
seq_num	703507	Sequence number
obs_id	20402	Observation id
title	A SEARCH FOR BEACONS IN THE EARLY UNIVERSE: A SURVEY OF HIGH REDSHIFT RADIO JETS	Proposal title
observer	Daniel Schwartz	Principal investigator
object	J1223+5038	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.93	Observer's specified target RA [deg]
dec_targ	50.631528	Observer's specified target Dec [deg]
ra_nom	185.92642298243	Nominal RA [deg]
dec_nom	50.63204798219	Nominal Dec [deg]
roll_nom	285.32017894893	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10060.79940033	Sum of GTIs [s]
livetime	9569.8653099302	Livetime [s]
ontime7	10060.79940033	Sum of GTIs [s]
l2events	12282	Number of level 2 events



2 OBI

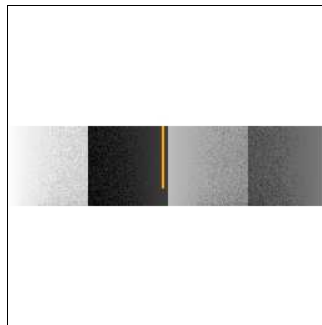
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10060.79940033	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	10060.79940033	Sum of GTIs [s]
date	2020-10-26T21:44:34	Date and time of file creation	l1events	25696	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

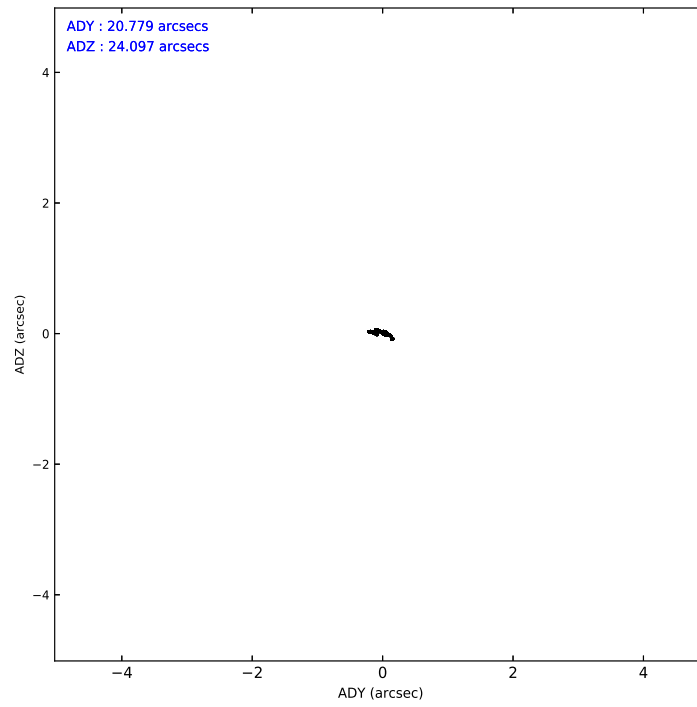
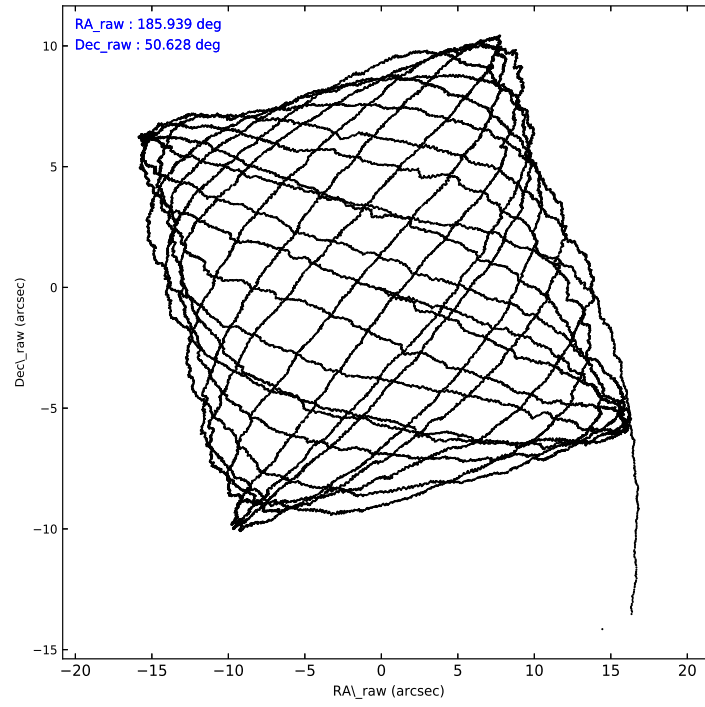
	ccd 7
level 1 events	25696
rejected events	13023
rejected %	50%

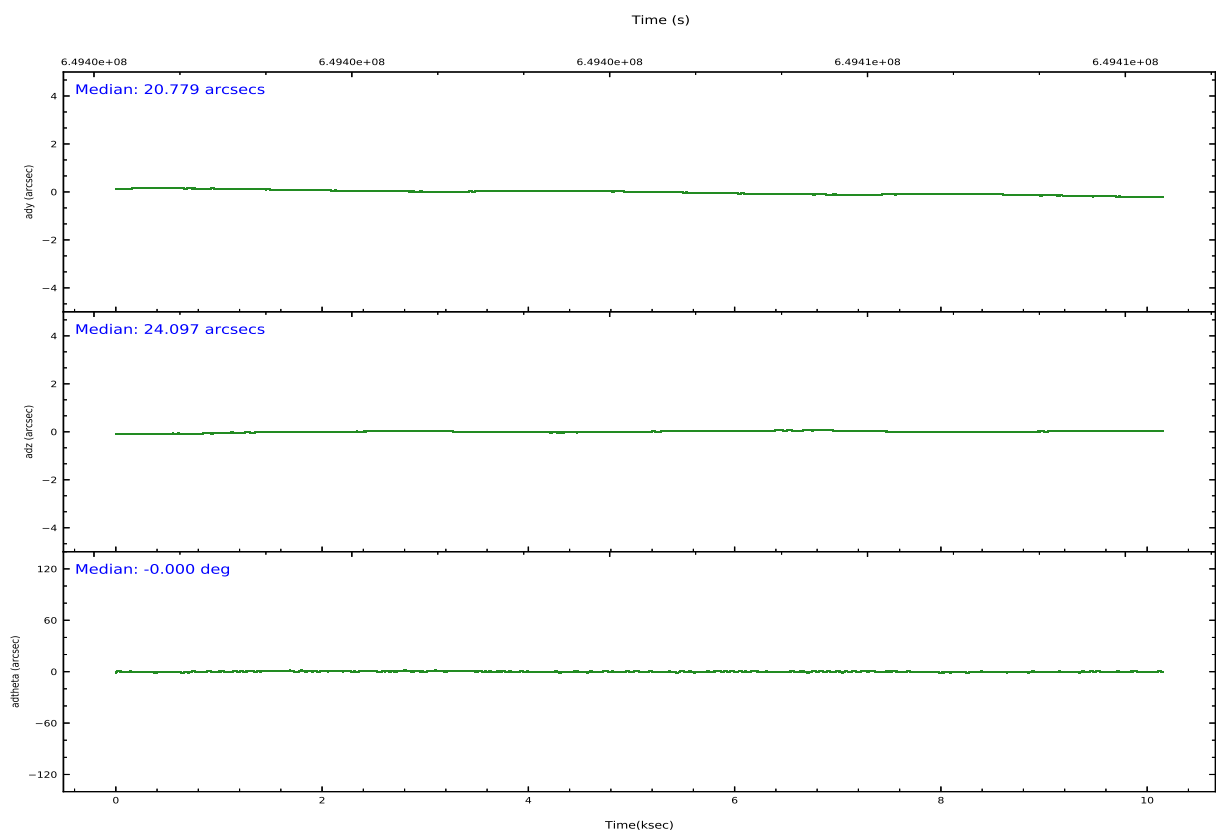
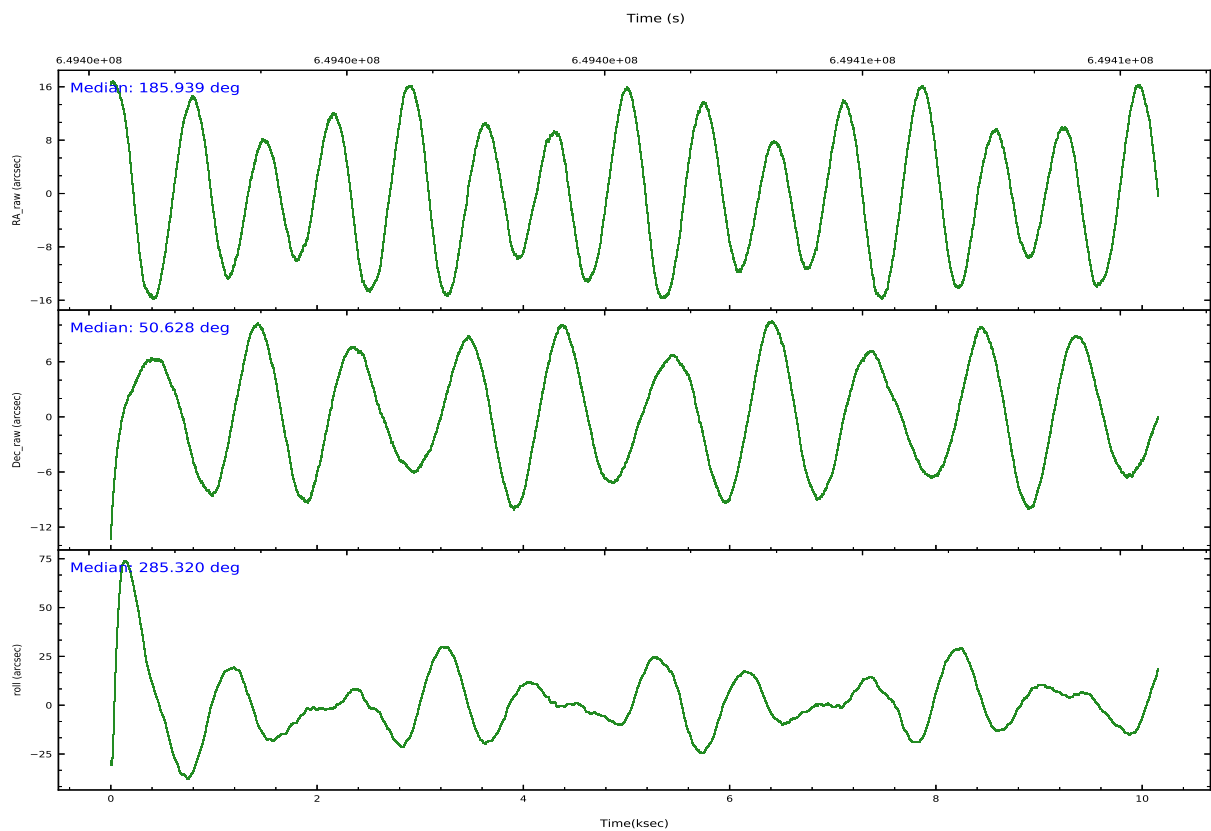
	ccd 7
grade 0 events	1267
	4%
grade 1 events	41
	0%
grade 2 events	2720
	10%
grade 3 events	1418
	5%
grade 4 events	1360
	5%
grade 5 events	2699
	10%
grade 6 events	5908
	22%
grade 7 events	10283
	40%

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	185.908375	185.92642298243	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	50.647080	50.63204798219	Subarray start row	385	385
[deg] Pointing Roll	285.198516	285.32017894893	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	649400366.184000	649398782.35434			
Observation start date	2018-07-31T04:58:17	2018-07-31T04:33:02			
[s] Observation end time (MET)	649410366.184000	649411397.03008			
Observation end date	2018-07-31T07:44:57	2018-07-31T08:03:17			
Read mode	TIMED	TIMED			

2.3 Aspect



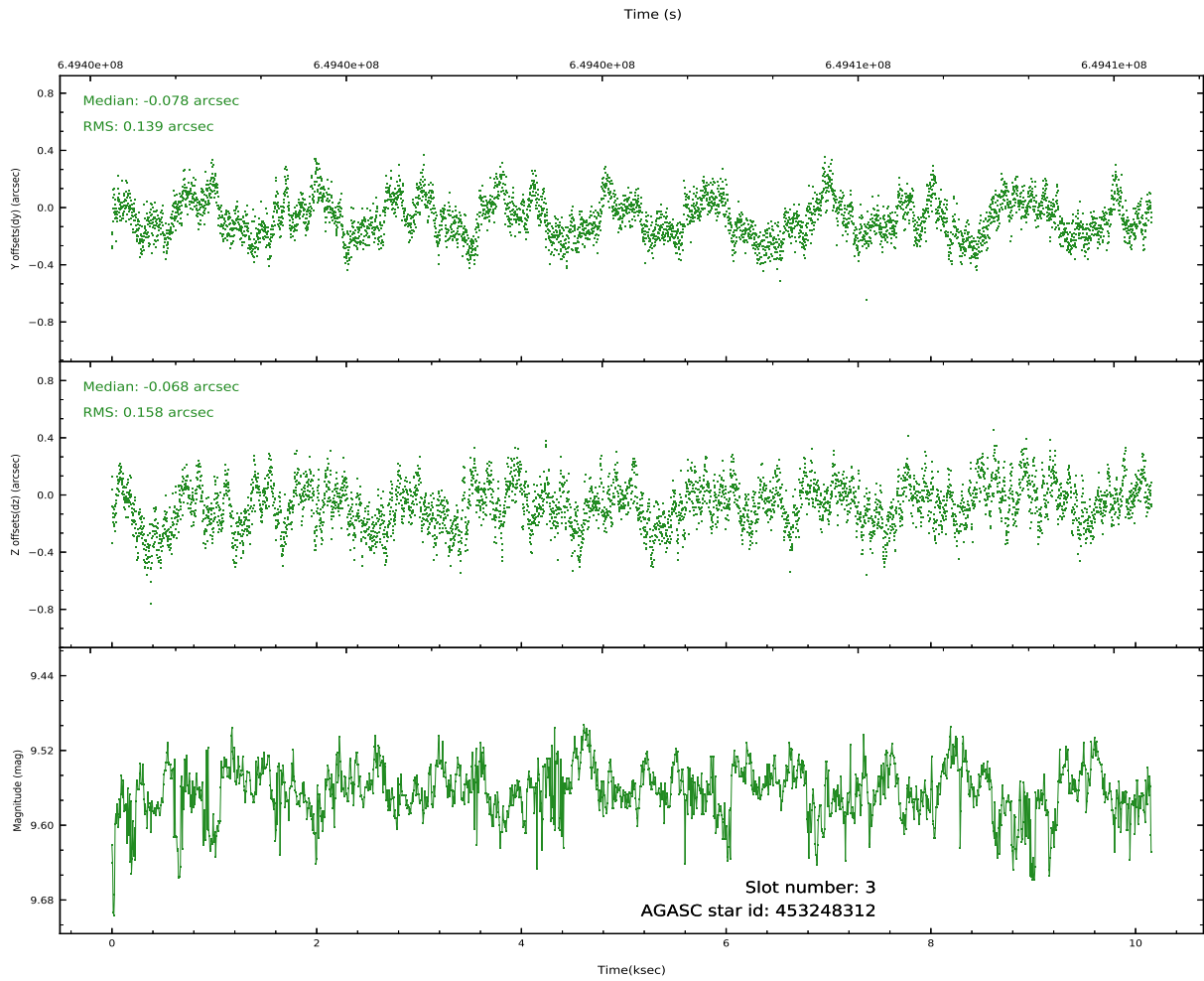
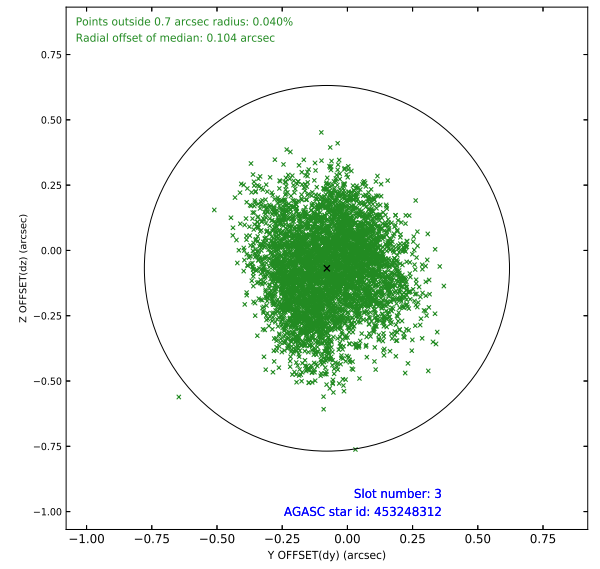
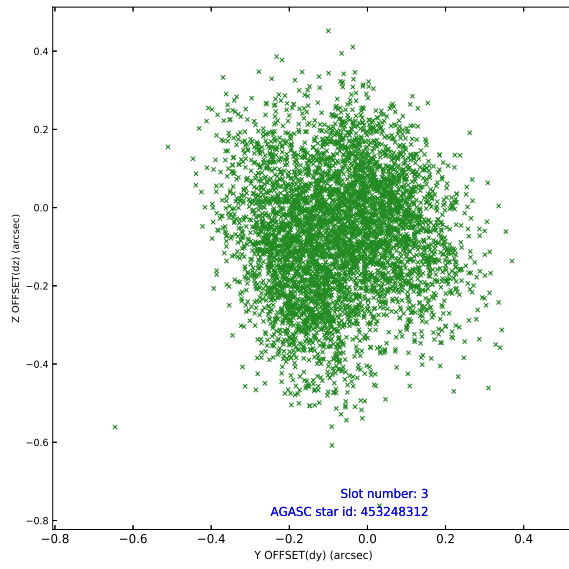


Slot Statistics

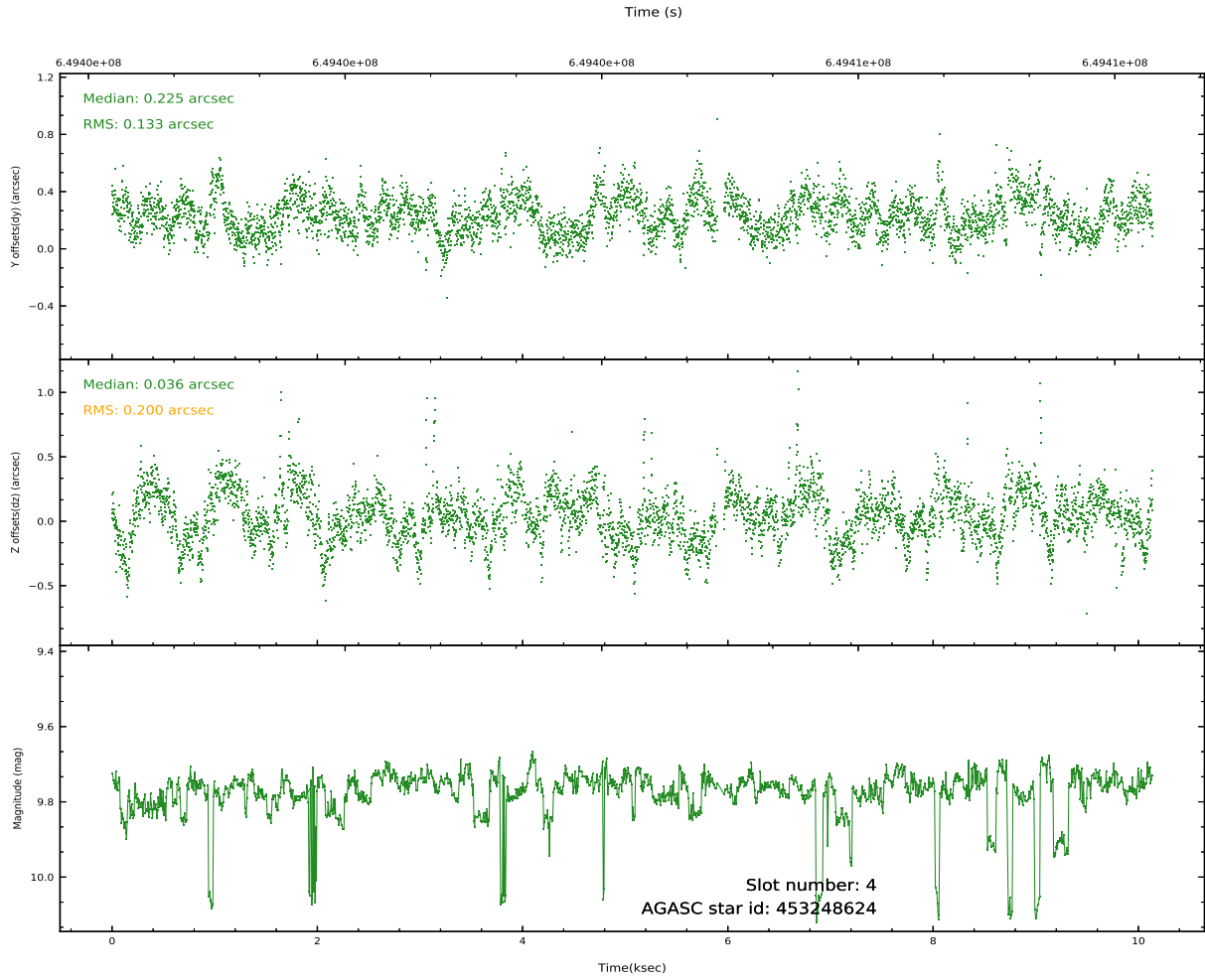
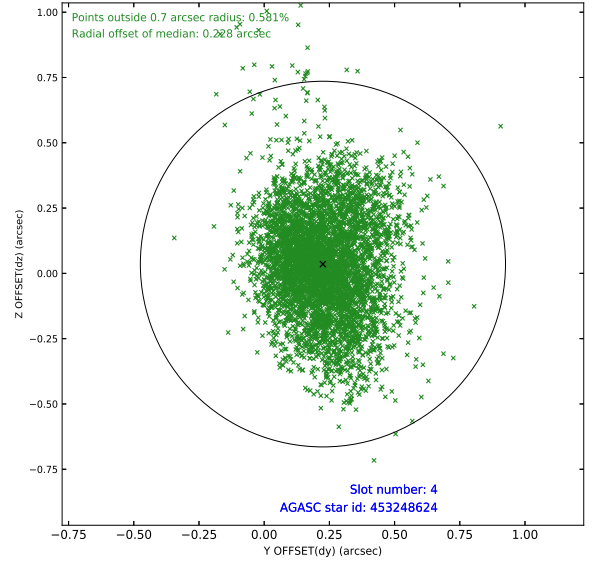
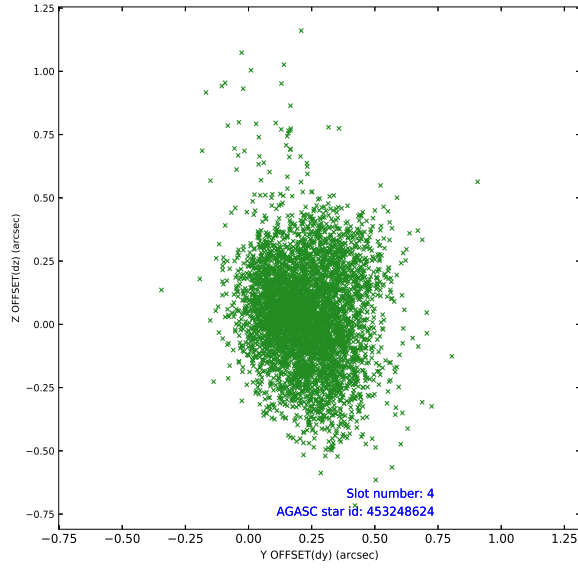
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.03	2477	1.000	0.227	-0.120	0.008	0.013	0.000000	0.000000	922.21	-1741
1	FID		ACIS-S-5	7.06	2478	1.000	-0.186	0.191	0.009	0.014	0.000000	0.000000	-1826.73	156
2	FID		ACIS-S-6	7.22	2476	1.000	-0.063	-0.059	0.011	0.017	0.000000	0.000000	387.15	800
3	GUIDE	used	453248312	9.56	4939	1.000	-0.078	-0.068	0.228	0.353	185.985710	50.541613	413.15	71
4	GUIDE	used	453248624	9.76	4816	1.000	0.225	0.036	0.246	0.416	185.806273	50.890446	-905.26	5
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
6	GUIDE	used	453248528	6.97	4955	1.000	-0.165	0.114	0.204	0.304	186.707630	51.205792	-1478.46	2268
7	GUIDE	used	453116280	10.05	4871	1.000	0.002	-0.080	0.272	0.458	185.569634	50.204436	1332.53	-1170

2.4 Star Slots

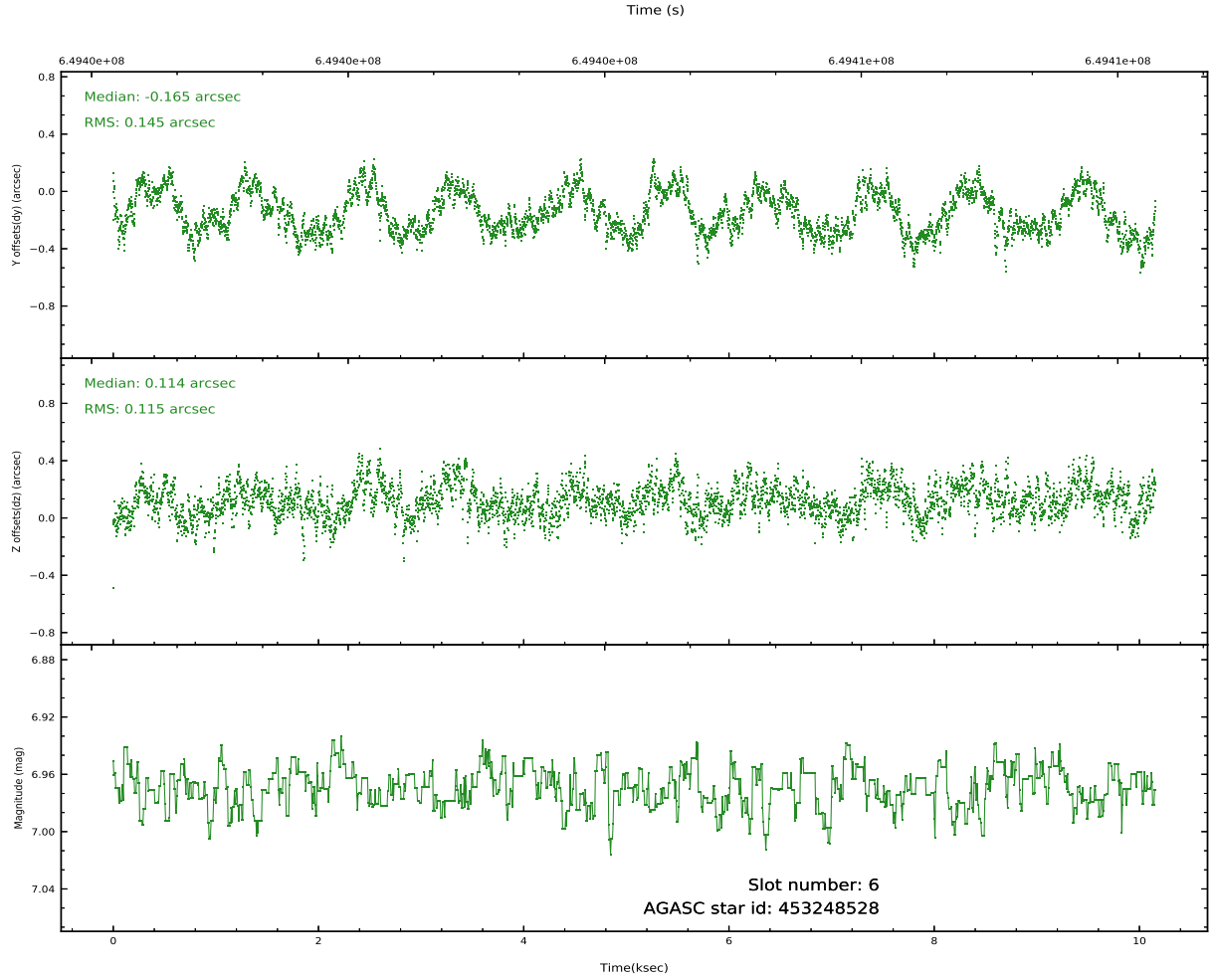
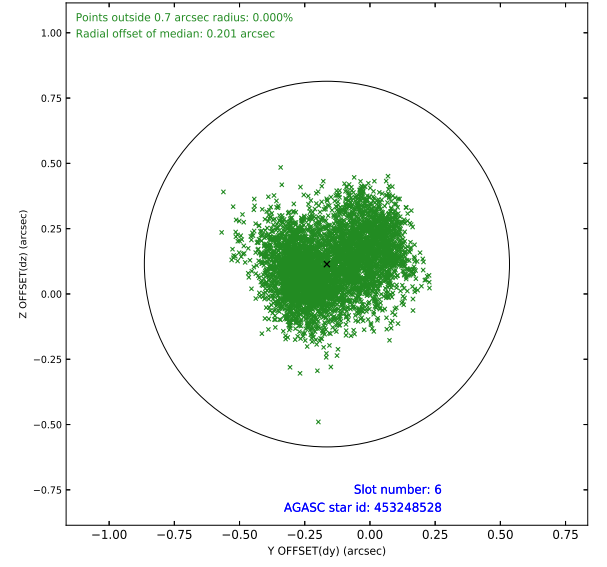
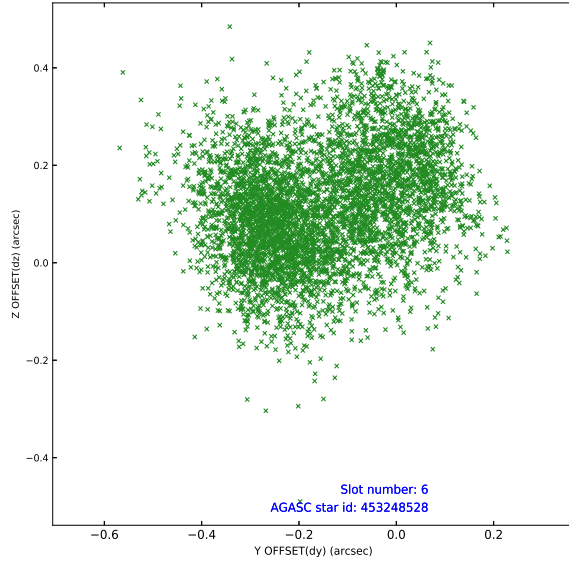
2.4.1 Slot 3



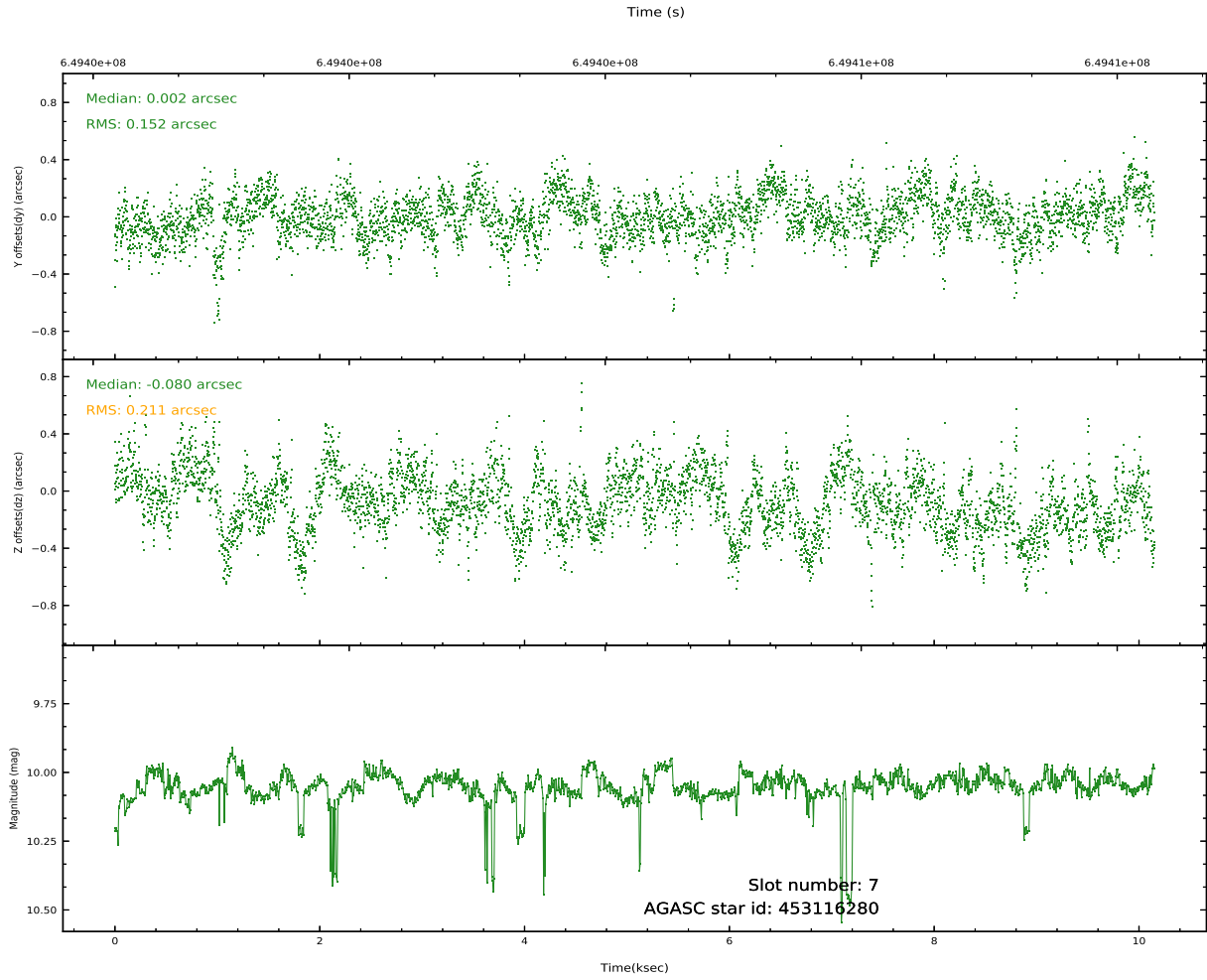
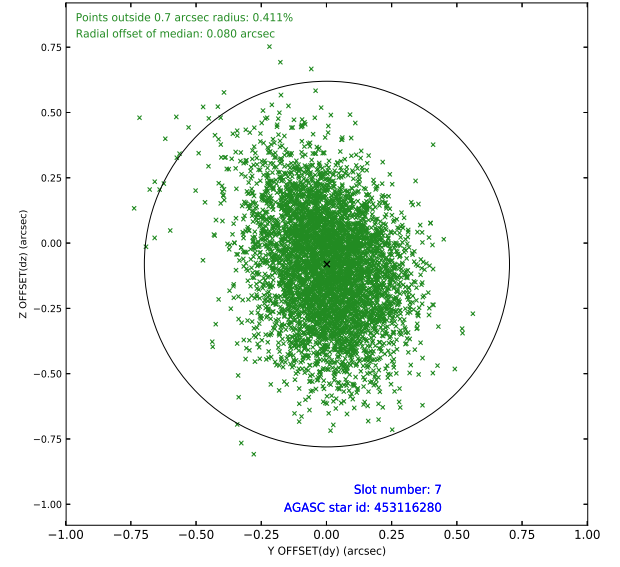
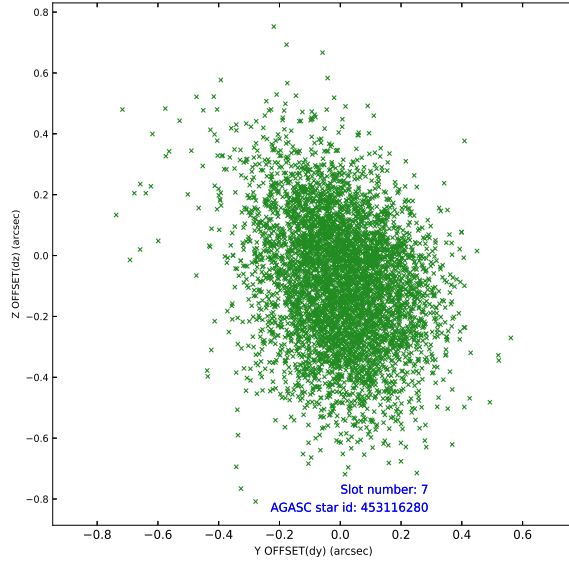
2.4.2 Slot 4



2.4.3 Slot 6

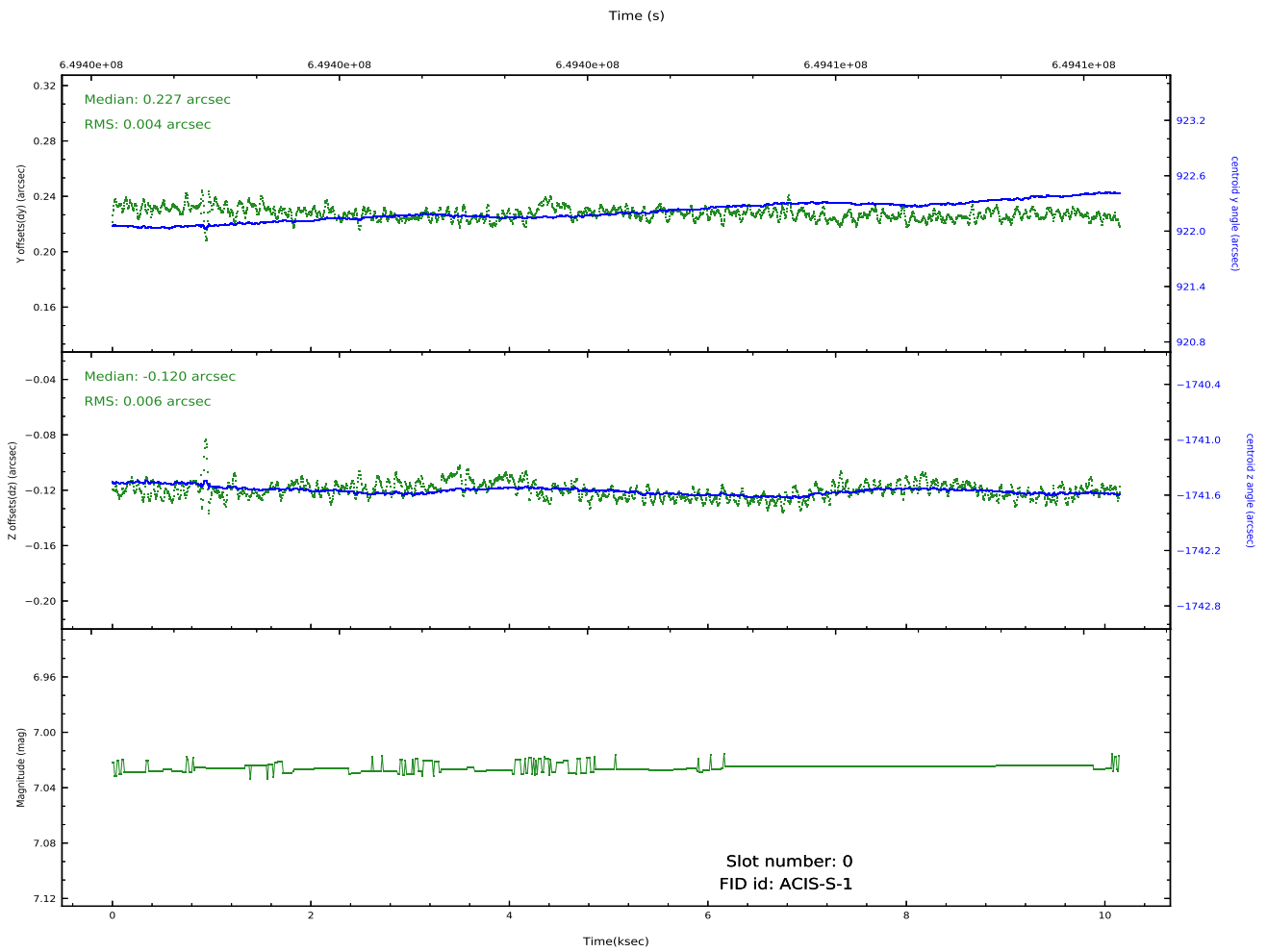
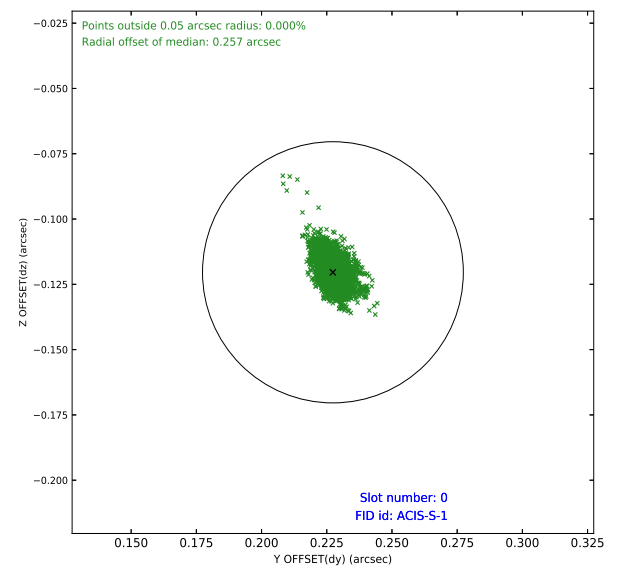
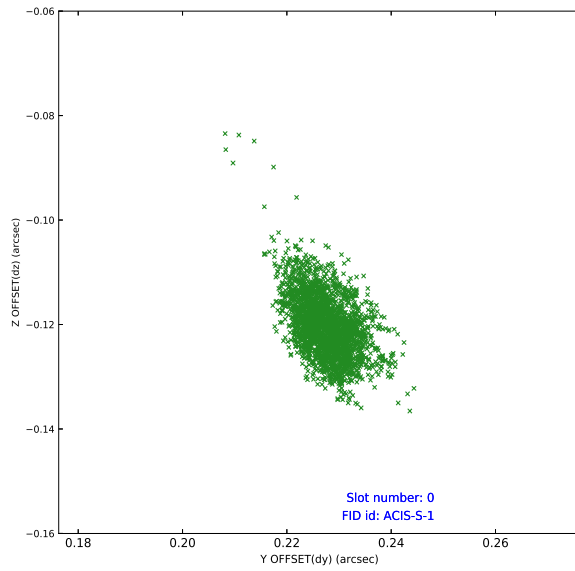


2.4.4 Slot 7

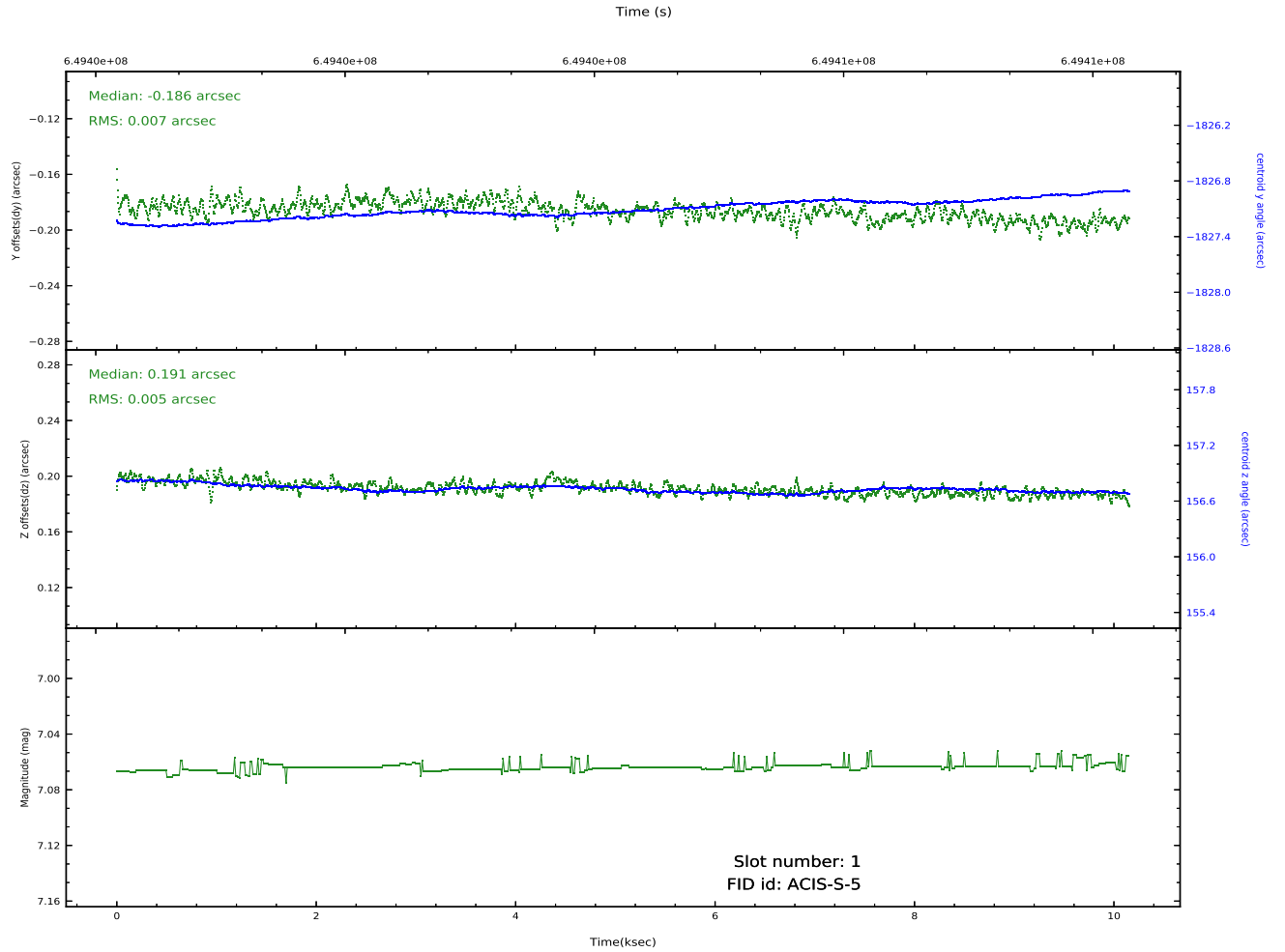
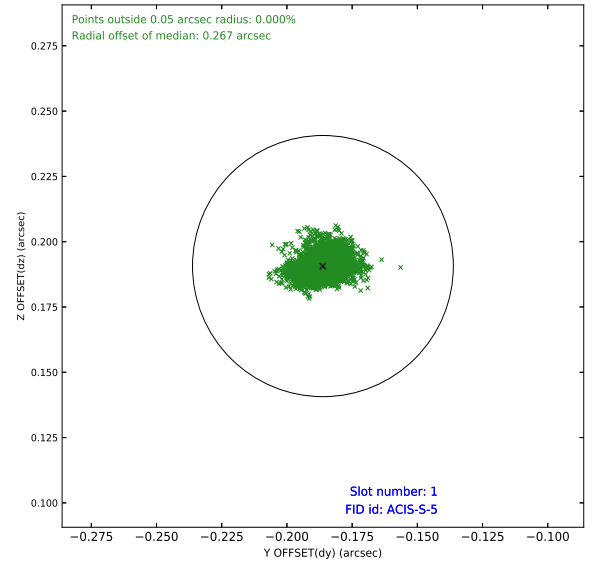
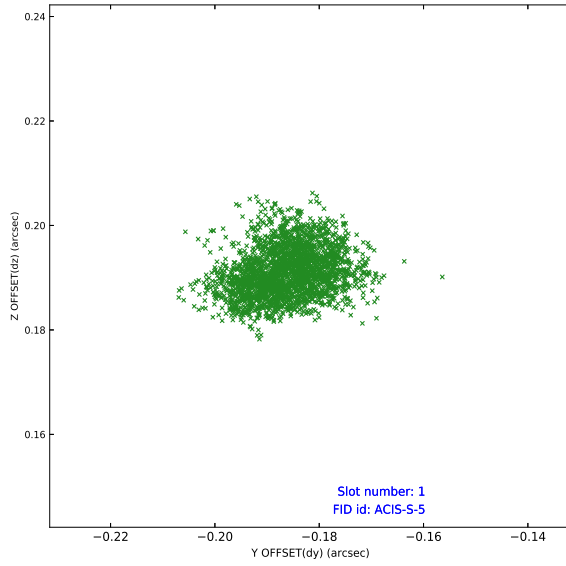


2.5 FID Slots

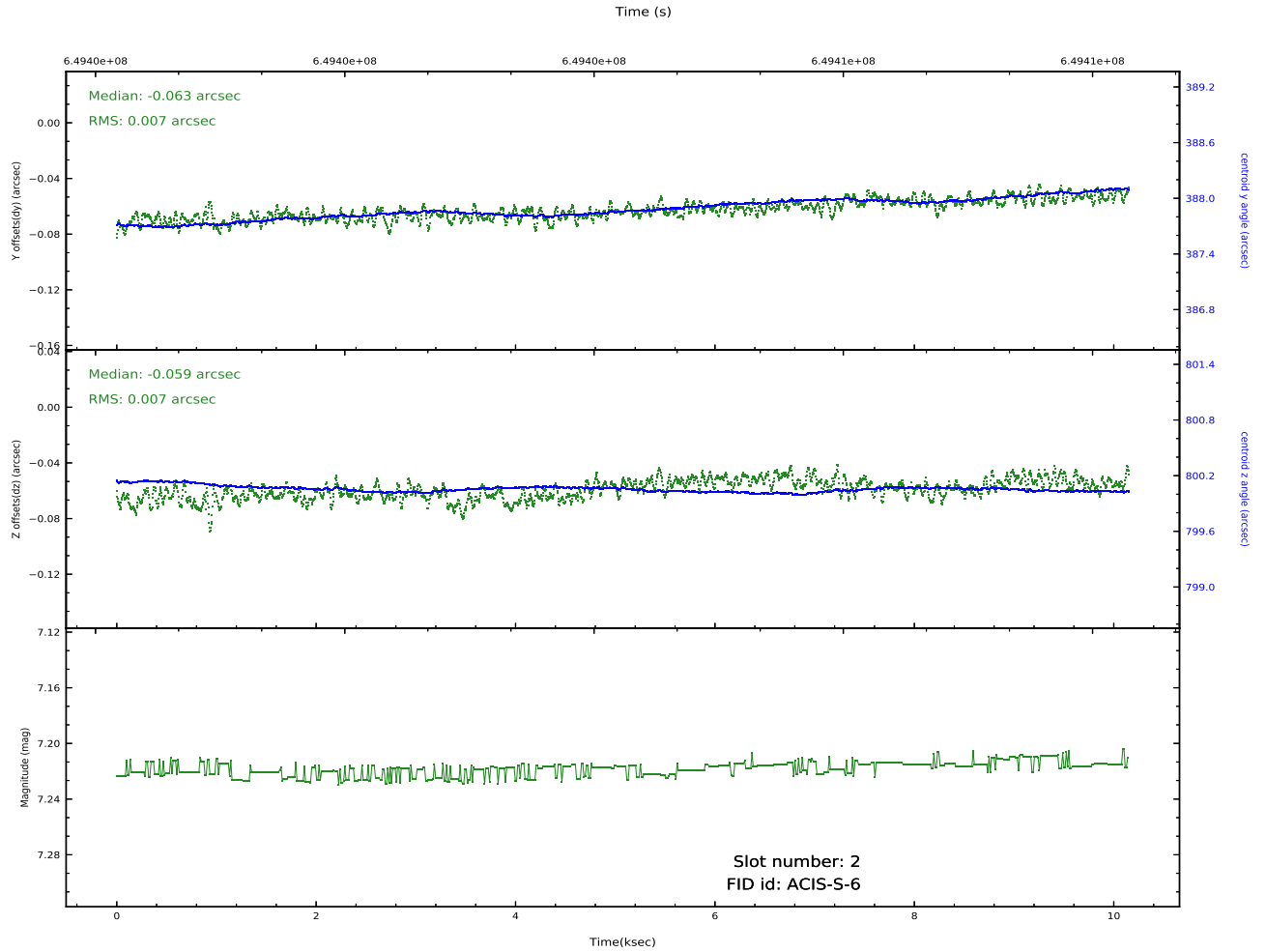
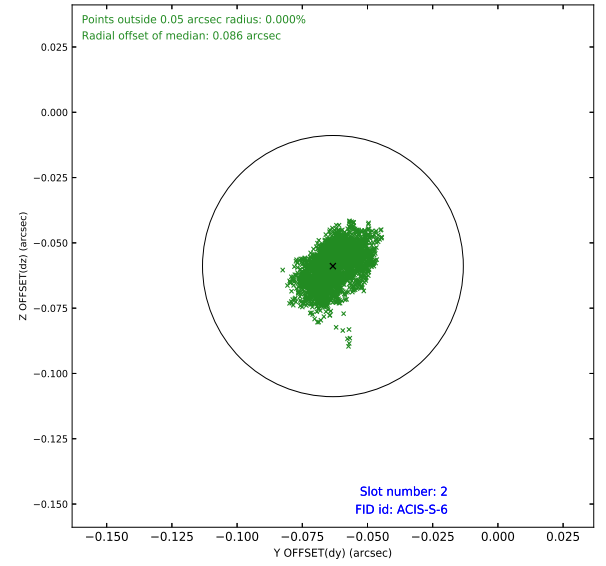
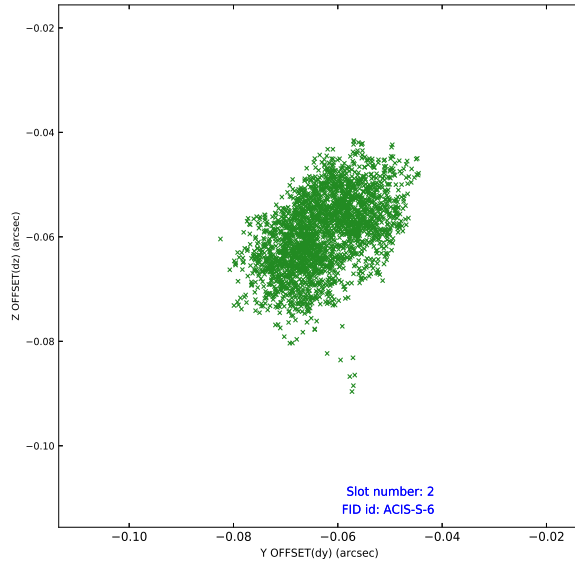
2.5.1 Slot 0



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	10.06079940033

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.