

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7220 - L2 Version 3
Chandra X-Ray Center

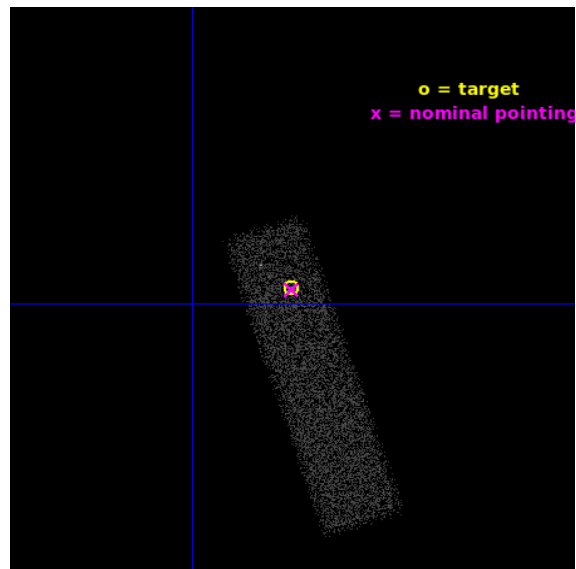
L2 Processing Date : Oct 11 2020

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

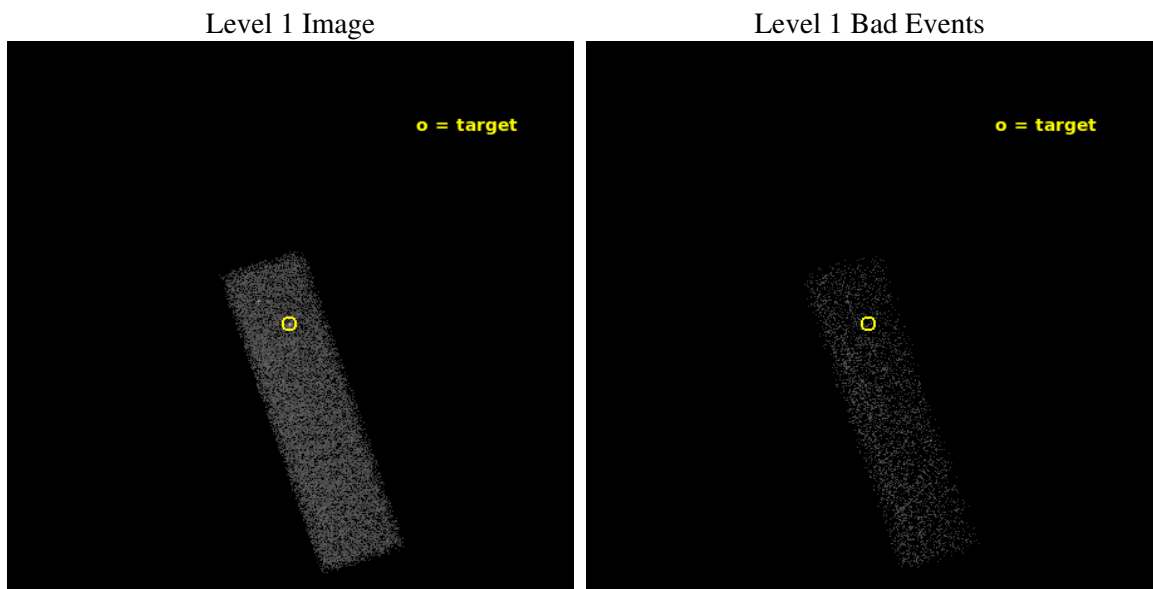
seq_num	701154	Sequence number
obs_id	7220	Observation id
title	A Study of the Physics of Extended Relativistic X-ray Jets, Discovered in our Chandra Survey	Proposal title
observer	Dr. Jonathan Gelbord	Principal investigator
object	PKS 0920-397	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	140.693333	Observer's specified target RA [deg]
dec_targ	-39.993083	Observer's specified target Dec [deg]
ra_nom	140.69315045145	Nominal RA [deg]
dec_nom	-39.993894483836	Nominal Dec [deg]
roll_nom	71.653172173148	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10152.800151289	Sum of GTIs [s]
livetime	9657.3767252816	Livetime [s]
ontime7	10152.800151289	Sum of GTIs [s]
l2events	12870	Number of level 2 events



2 OBI

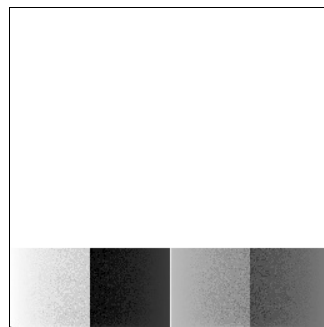
2.1 OBI

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	10.9.1	Processing system revision	ontime	10152.800151289	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	10152.800151289	Sum of GTIs [s]
date	2020-10-11T15:59:19	Date and time of file creation	l1events	31340	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

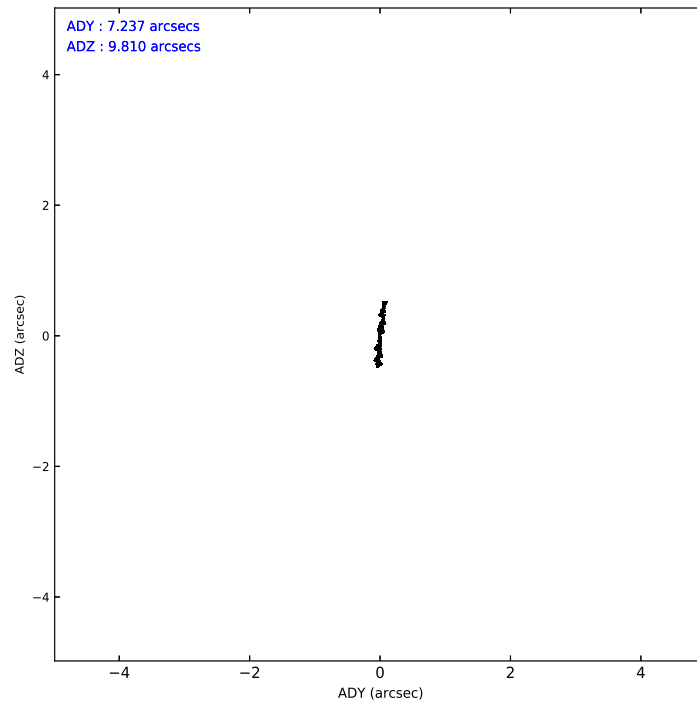
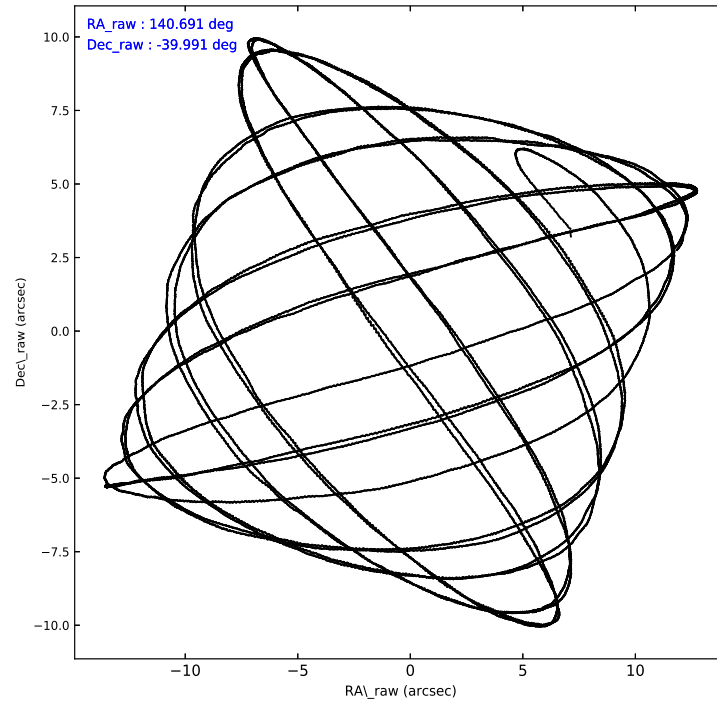
	ccd 7
level 1 events	31340
rejected events	17862
rejected %	56%

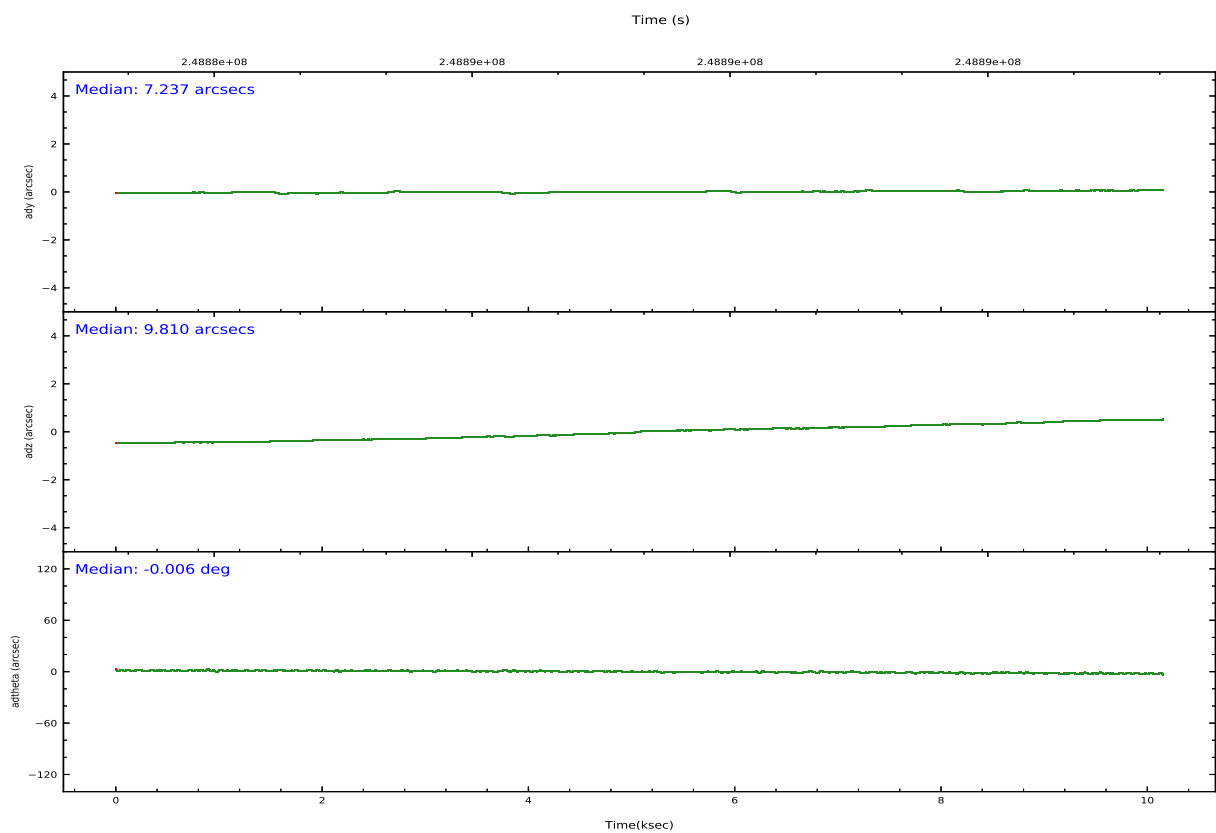
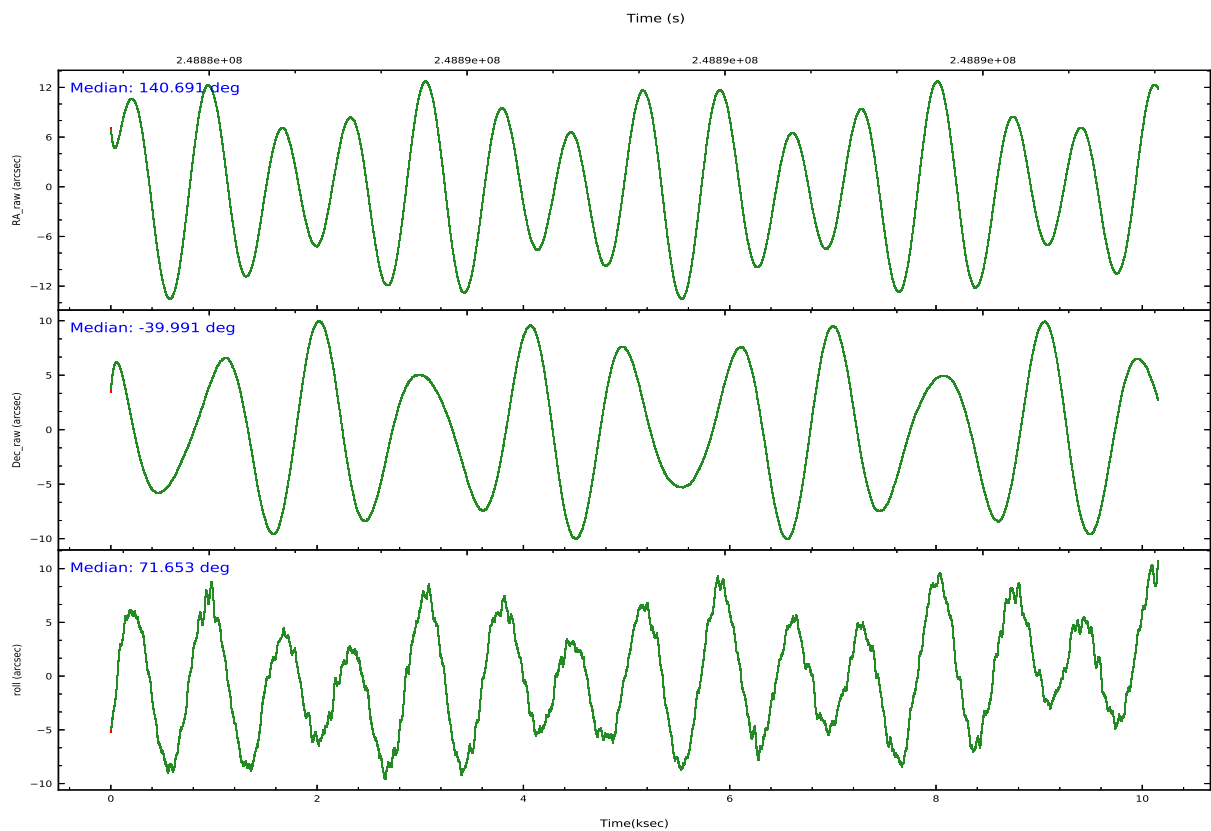
	ccd 7
grade 0 events	1451
	4%
grade 1 events	29
	0%
grade 2 events	2926
	9%
grade 3 events	1590
	5%
grade 4 events	1557
	4%
grade 5 events	2721
	8%
grade 6 events	7067
	22%
grade 7 events	13999
	44%

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	140.698069	140.69315045145	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-40.017623	-39.993894483836	Subarray start row	1	1
[deg] Pointing Roll	71.503051	71.65317217314799	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	-179.932523	-179.9244029796336			
[mm] SIM translation stage offset	-10.2	-10.2081196033742			
[s] Observation start time (MET)	248884200.184000	248883124.70048			
Observation start date	2005-11-20T14:28:56	2005-11-20T14:12:04			
[s] Observation end time (MET)	248894200.184000	248894959.86353			
Observation end date	2005-11-20T17:15:36	2005-11-20T17:29:19			
Read mode	TIMED	TIMED			

2.3 Aspect



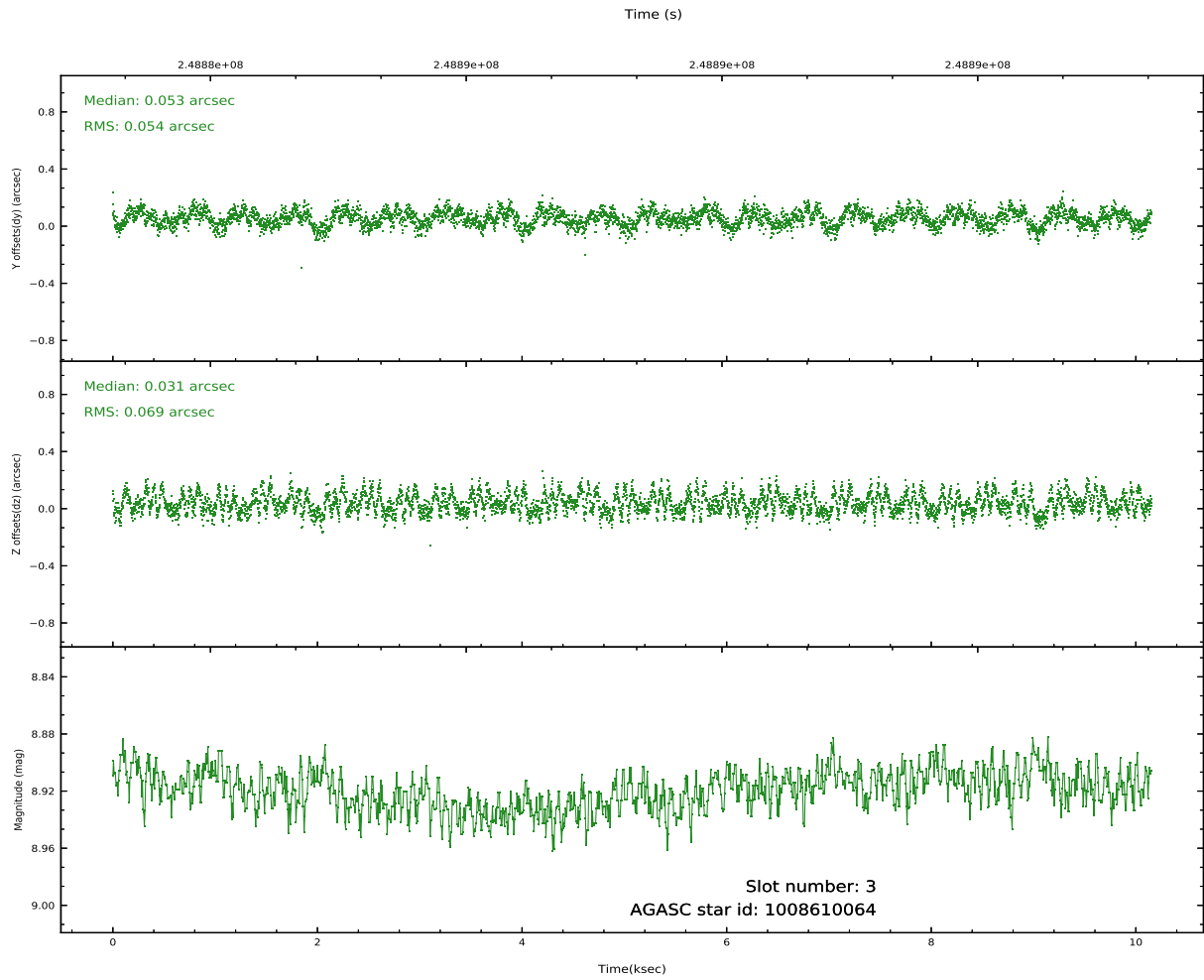
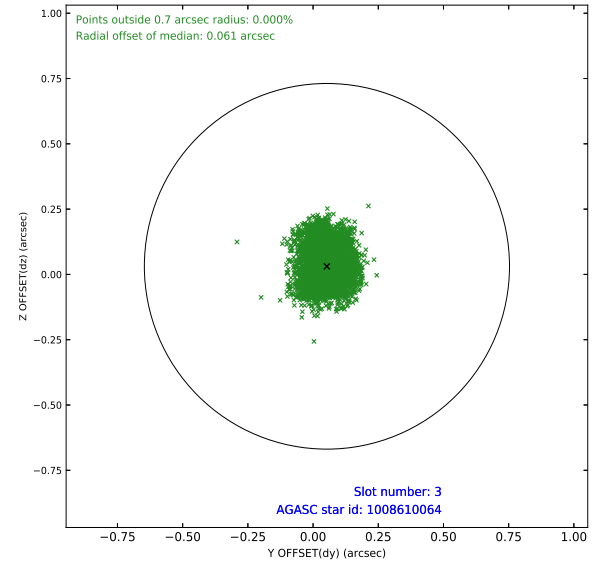
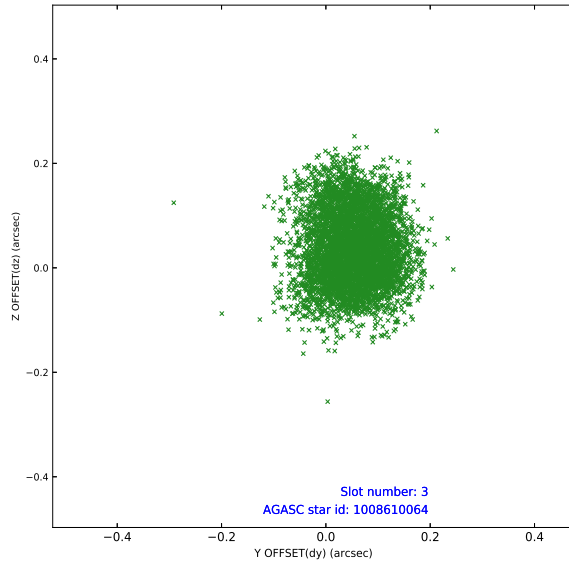


Slot Statistics

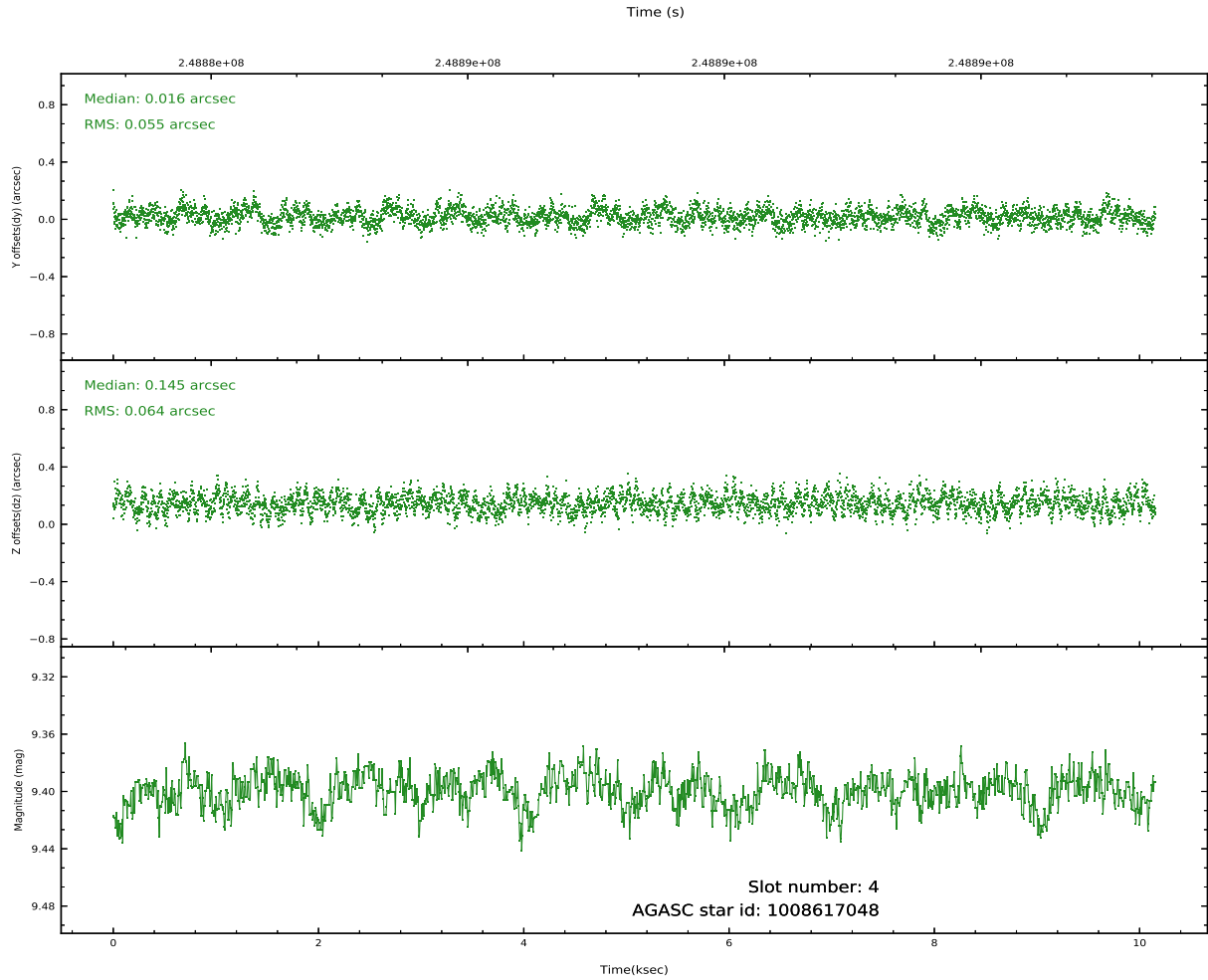
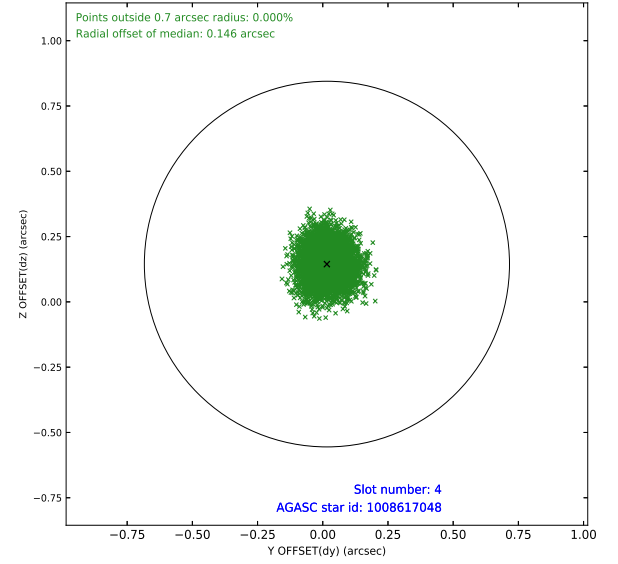
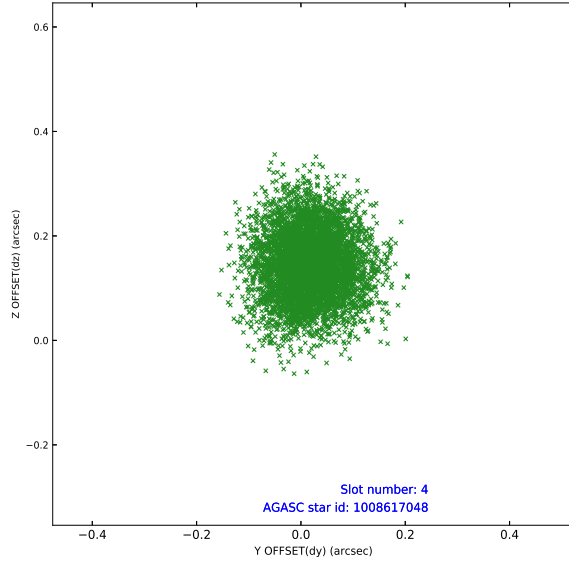
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	2477	1.000	0.049	0.172	0.011	0.019	0.000000	0.000000	936.86	-1936
1	FID		ACIS-S-2	7.08	2477	1.000	-0.189	-0.201	0.015	0.028	0.000000	0.000000	-758.99	-1942
2	FID		ACIS-S-6	7.42	2477	1.000	0.120	0.034	0.013	0.022	0.000000	0.000000	402.33	603
3	GUIDE	used	1008610064	8.92	4953	1.000	0.053	0.031	0.094	0.150	141.362695	-40.226184	-138.58	-1972
4	GUIDE	used	1008617048	9.40	4954	1.000	0.016	0.145	0.090	0.144	141.260770	-40.731902	-1955.93	-2273
5	GUIDE	used	1008631096	7.54	4954	1.000	-0.134	-0.180	0.054	0.086	140.384695	-39.696088	820.27	1189
6	GUIDE	used	1006915600	8.62	4953	1.000	0.037	-0.210	0.078	0.123	139.877240	-40.473529	-2279.44	1607
7	GUIDE	used	1008625256	9.62	4945	1.000	0.028	0.218	0.129	0.210	141.344731	-40.676760	-1696.43	-2428

2.4 Star Slots

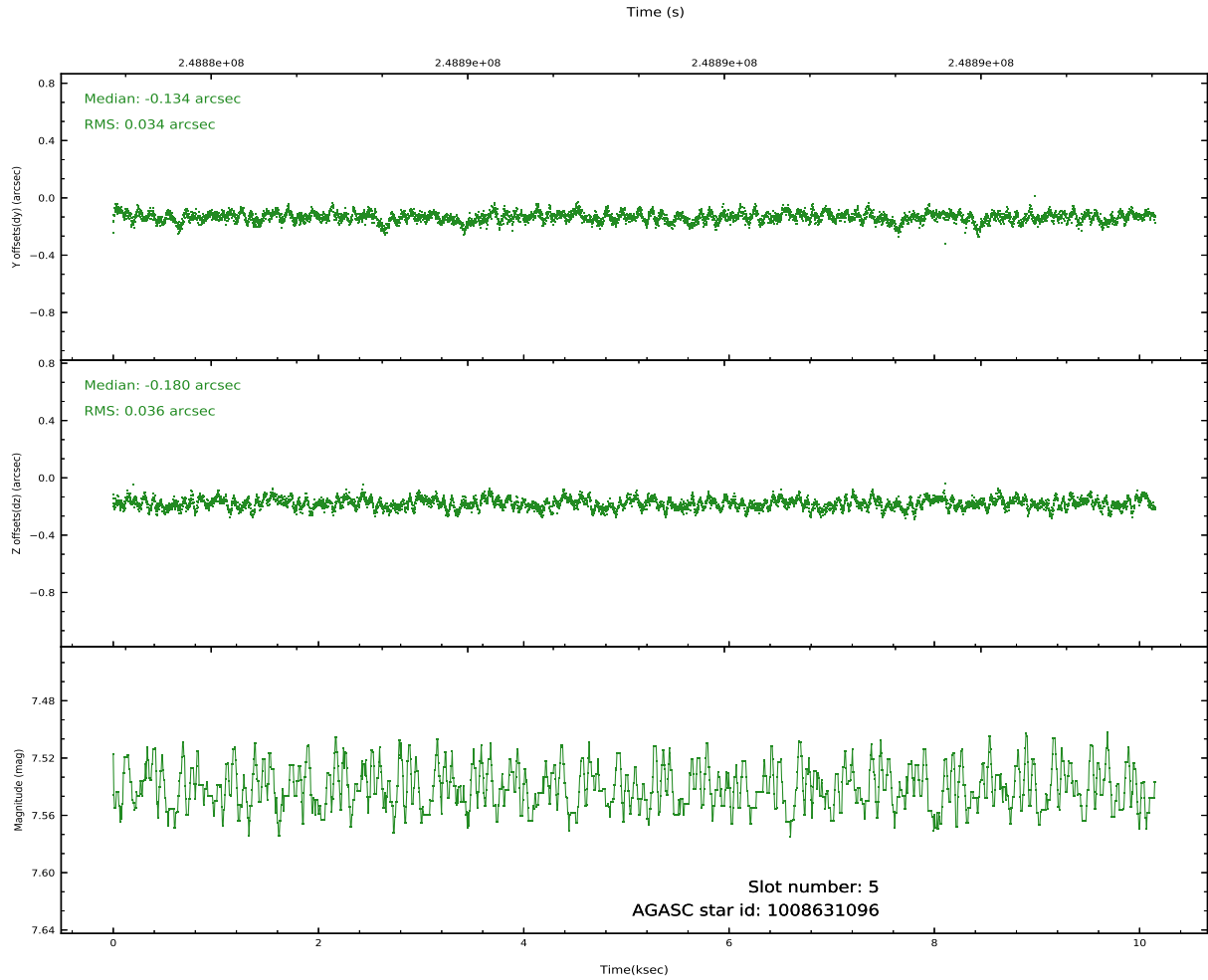
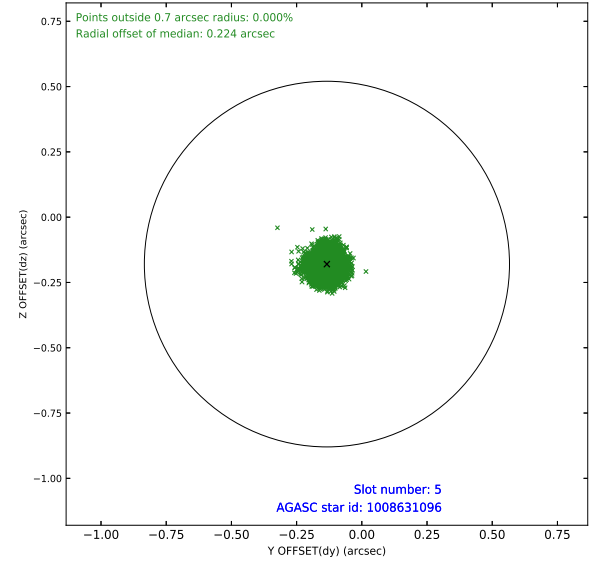
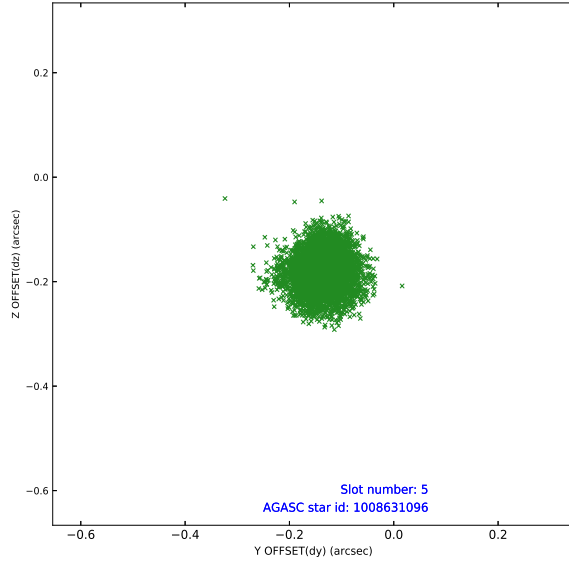
2.4.1 Slot 3



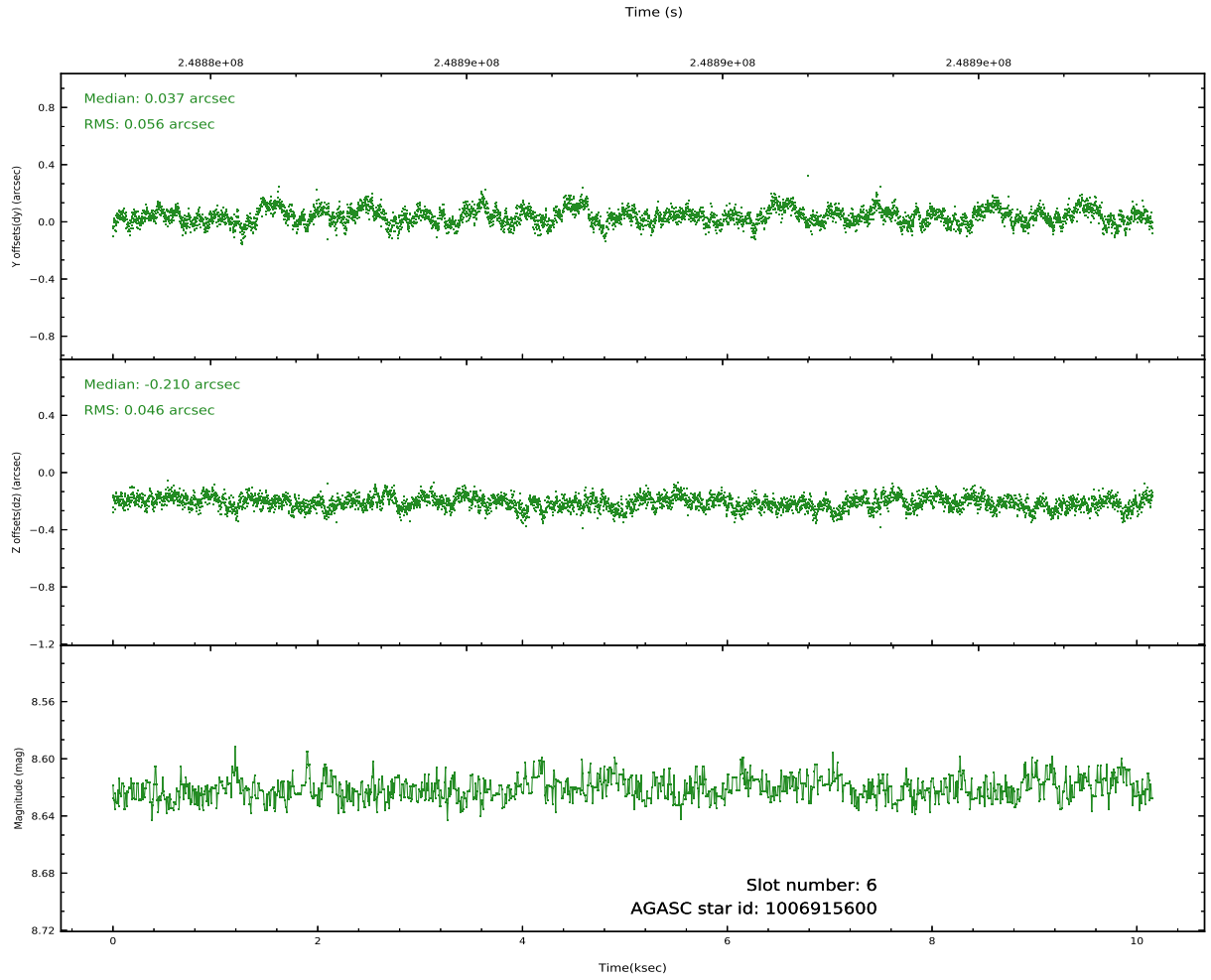
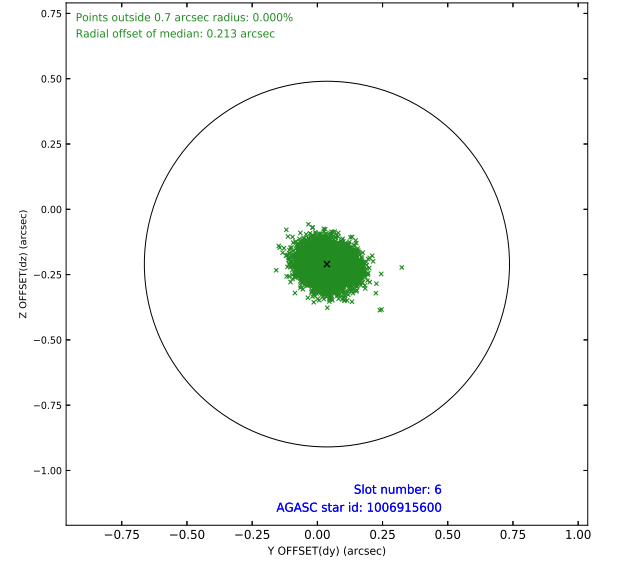
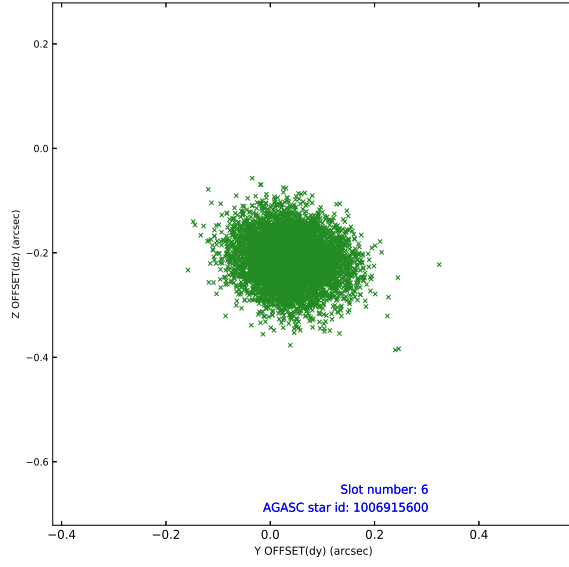
2.4.2 Slot 4



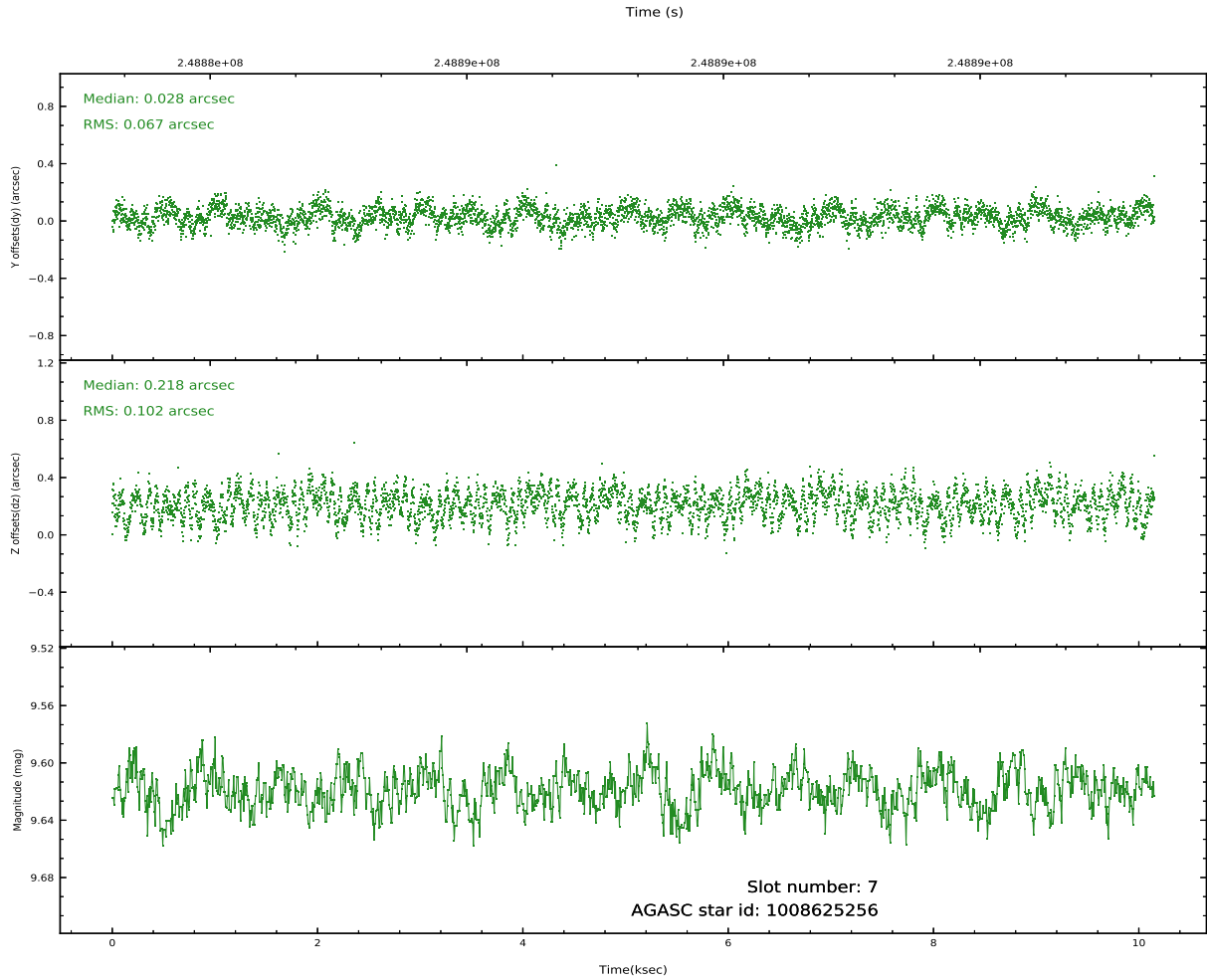
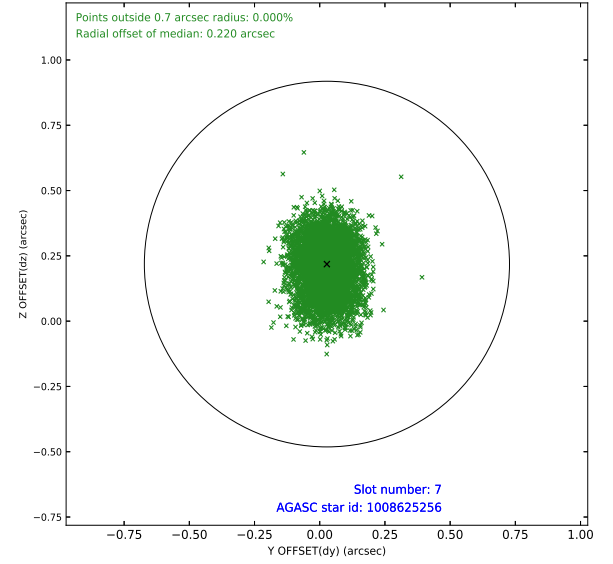
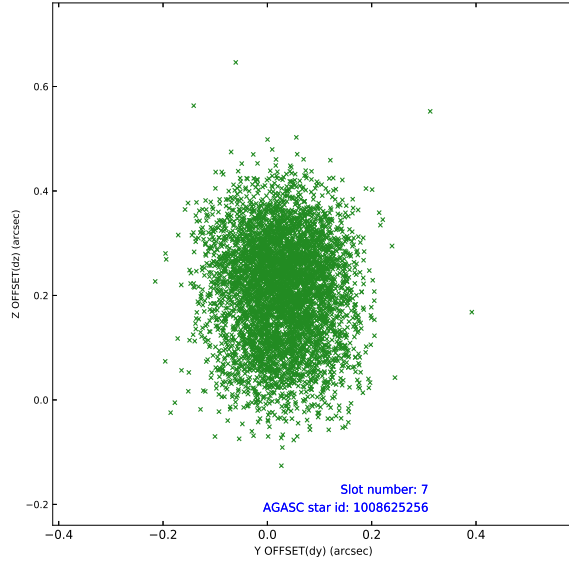
2.4.3 Slot 5



2.4.4 Slot 6

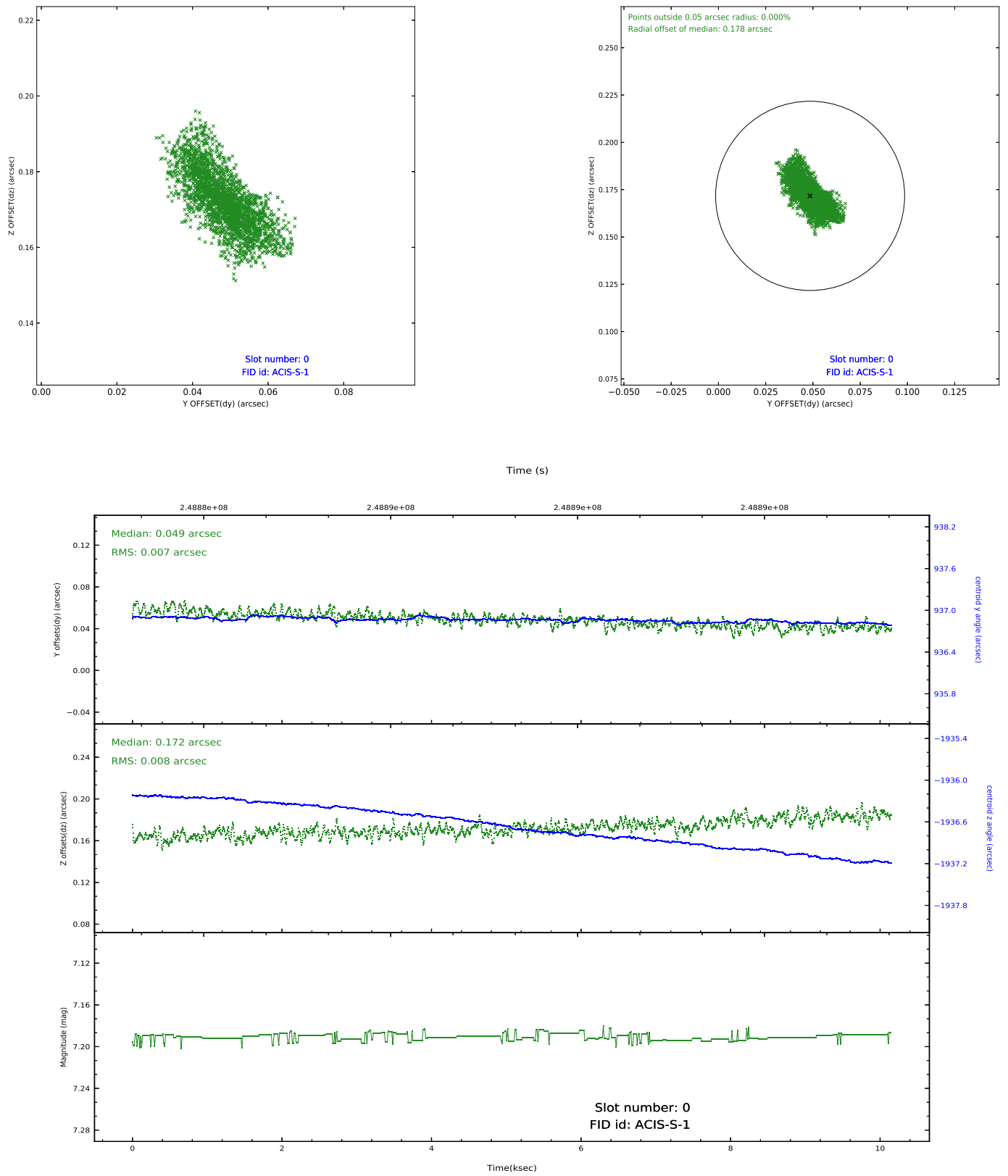


2.4.5 Slot 7

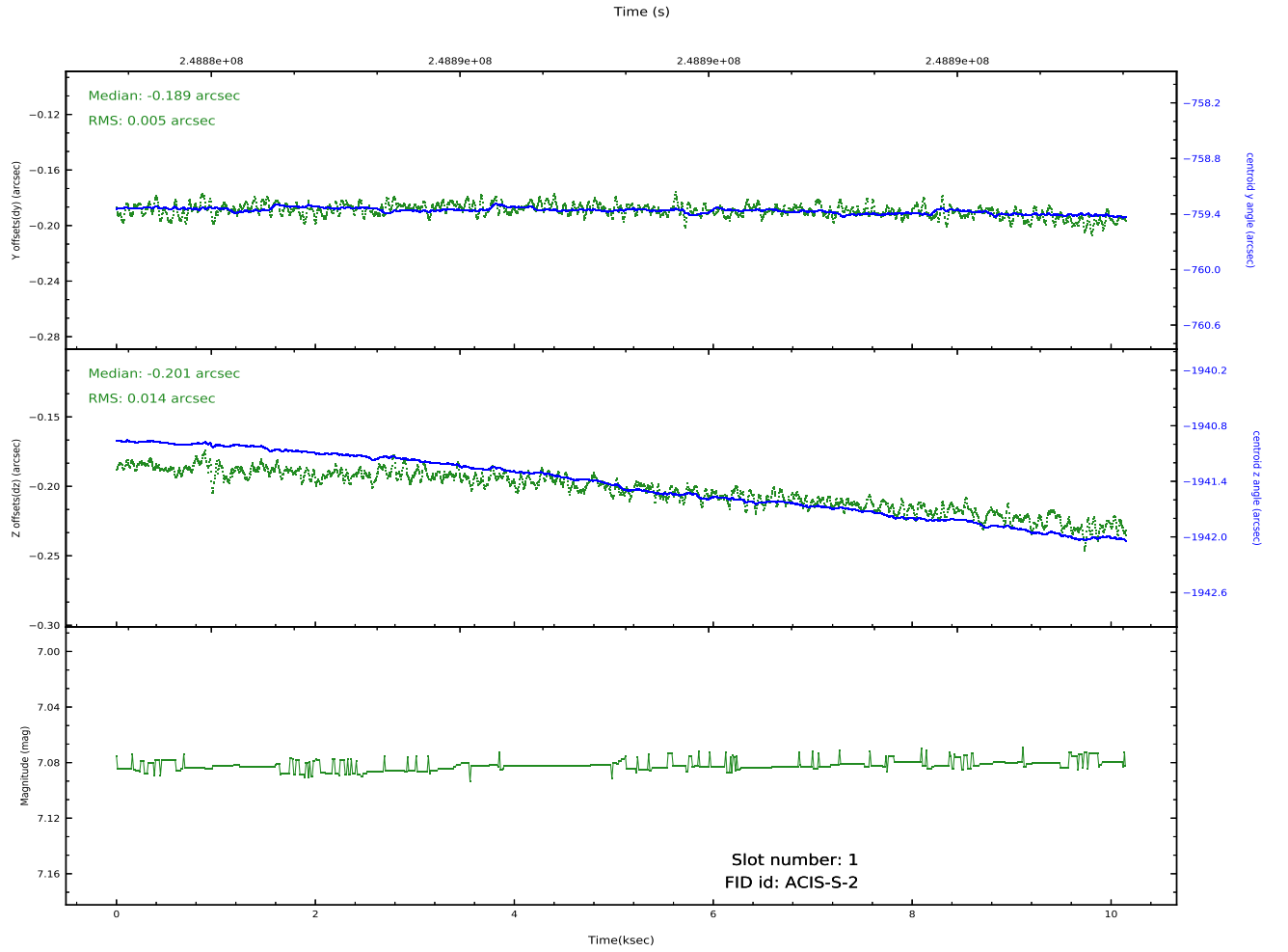
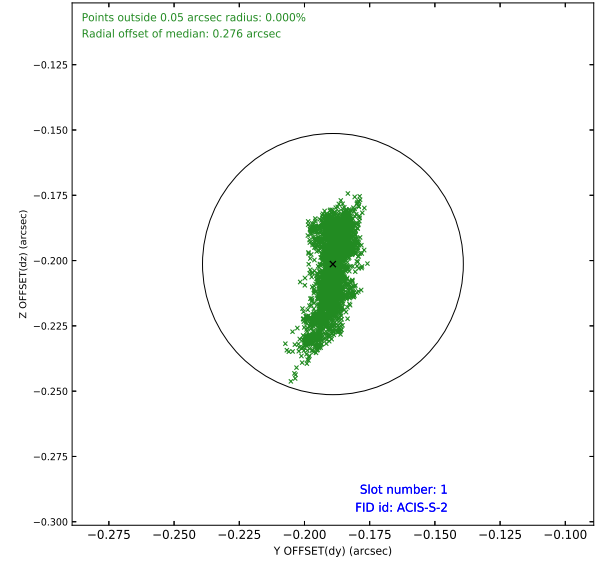
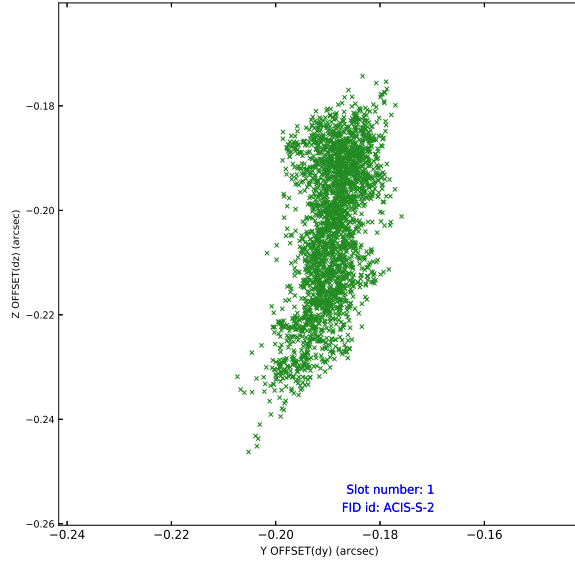


2.5 FID Slots

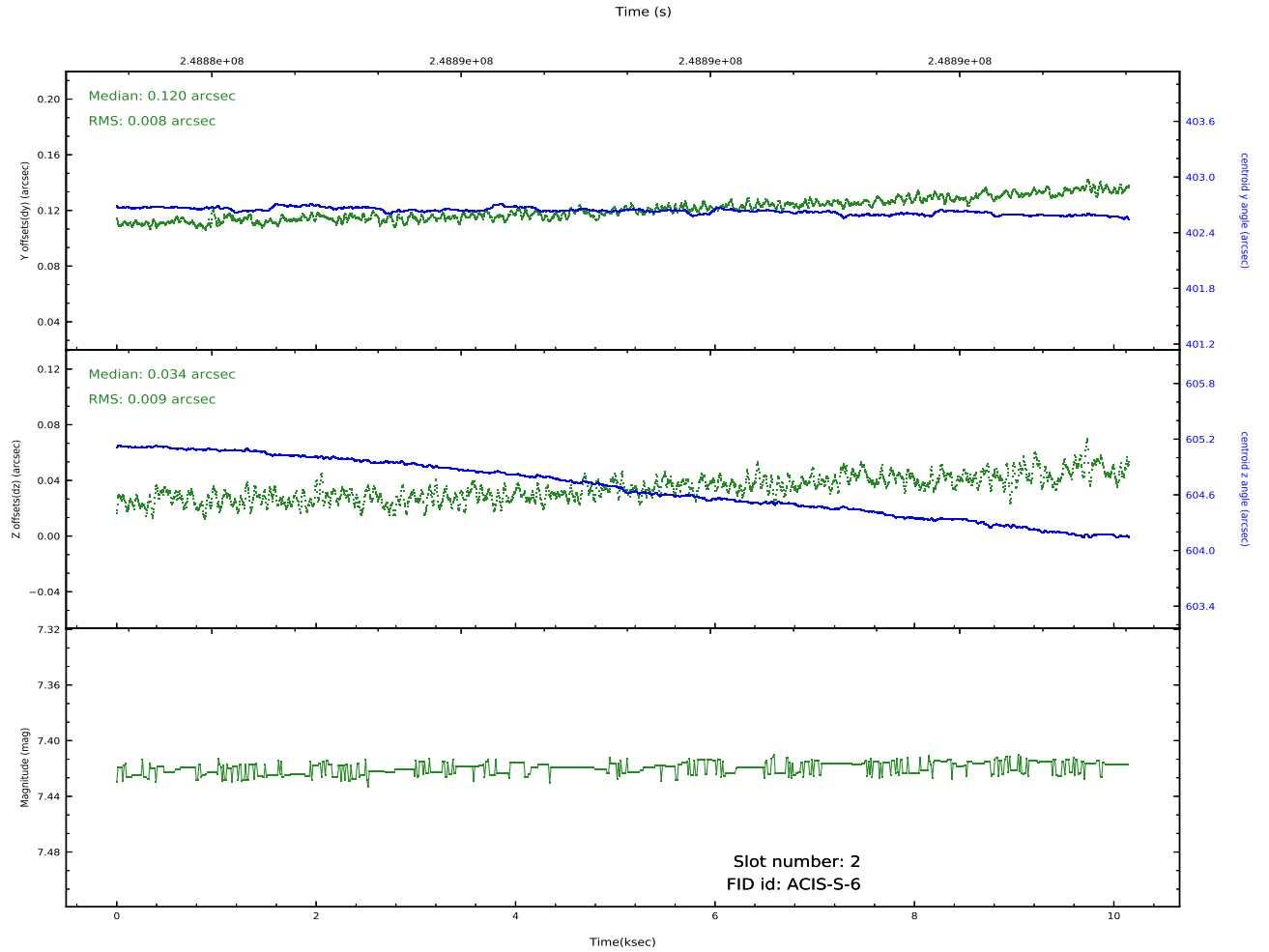
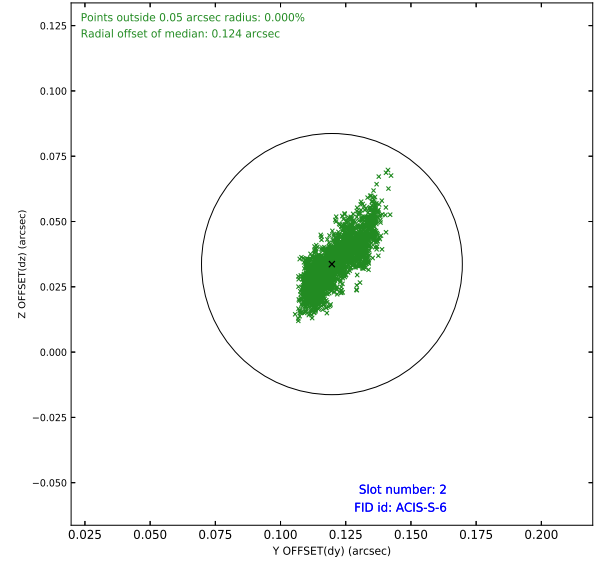
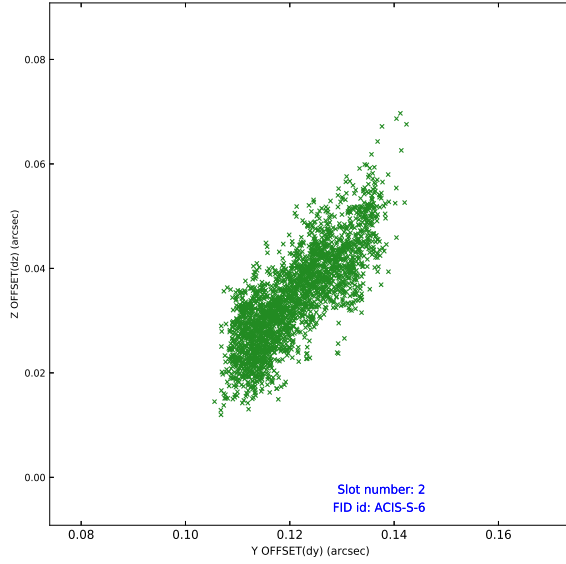
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1528

A.2 Comments

Joint proposal with HST. Roll preference met.