

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 18678 - L2 Version 3
Chandra X-Ray Center

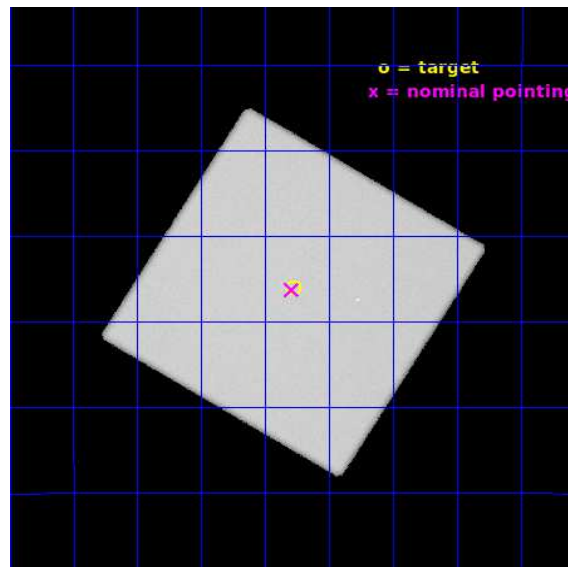
L2 Processing Date : Oct 25 2020

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1 Front

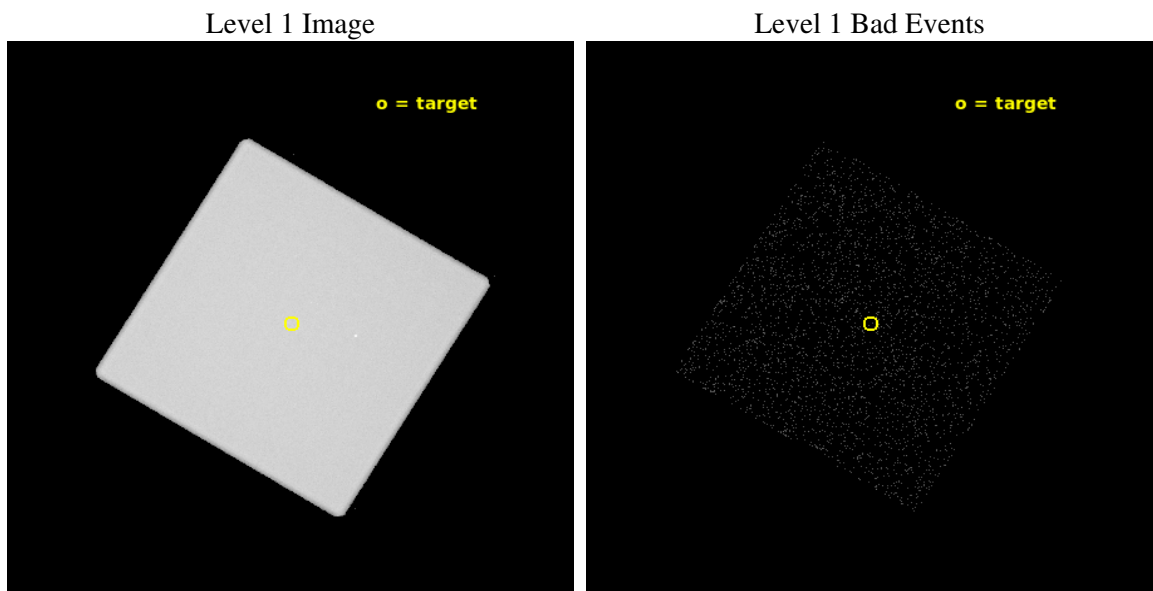
seq_num	100163	Sequence number
obs_id	18678	Observation id
title	Disecting the Morphology of Jupiter's Auroral Hot Spot	Proposal t
observer	Dr. Randy Gladstone	Principal investigator
object	Jupiter	Source name
ra_targ	230.067583	Observer's specified target RA [deg]
dec_targ	-17.101028	Observer's specified target Dec [deg]
ra_nom	230.07249511969	Nominal RA [deg]
dec_nom	-17.104628241853	Nominal Dec [deg]
roll_nom	76.418373614529	Nominal Roll [deg]
revision	3	Processing version of data
ontime	40580.77739346	[s]
livetime	40051.532211026	Ontime multiplied by DTCOR
l2events	4532051	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	40400.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	40580.77739346	[s]
caldsver	4.9.3	 	l1events	6077225	Number of level 1 events
date	2020-10-25T10:32:17	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

Level 1 Events

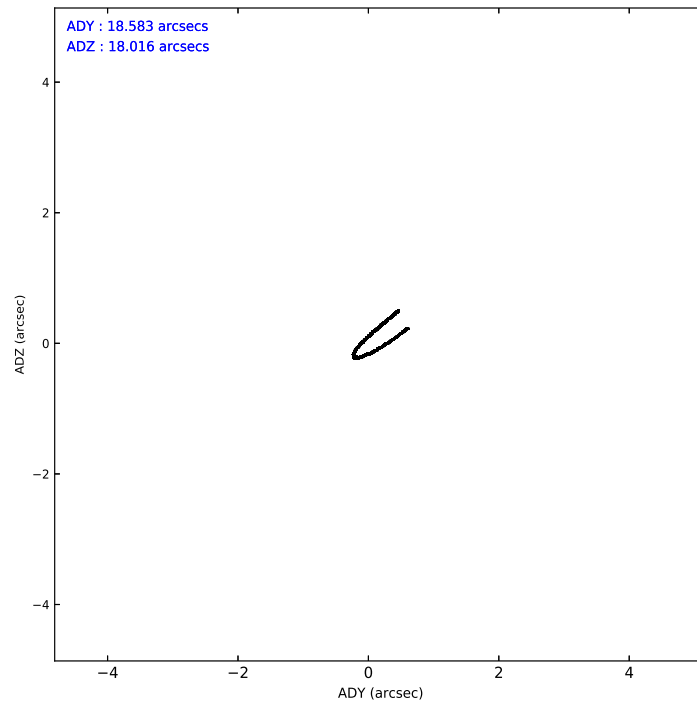
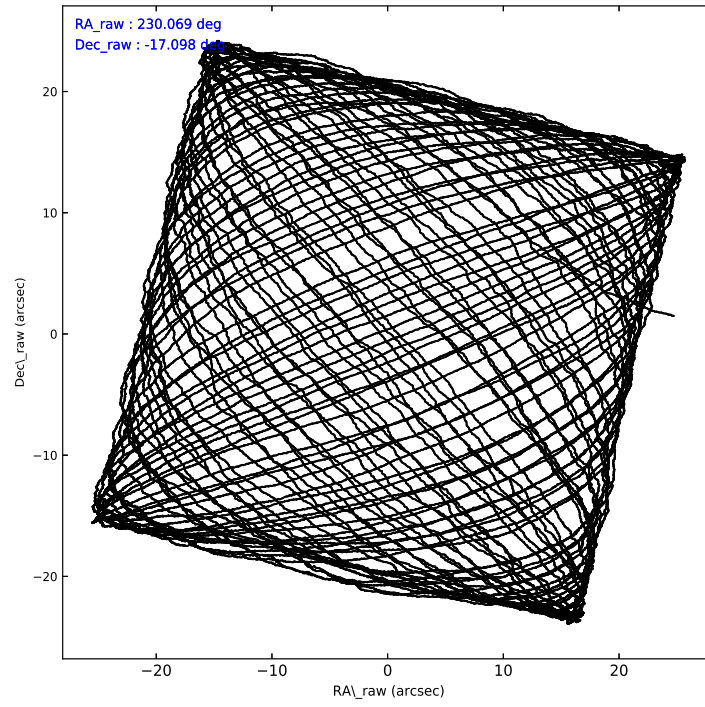
	segment 0
level 1 events	6077225
rejected events	89135
rejected %	1%

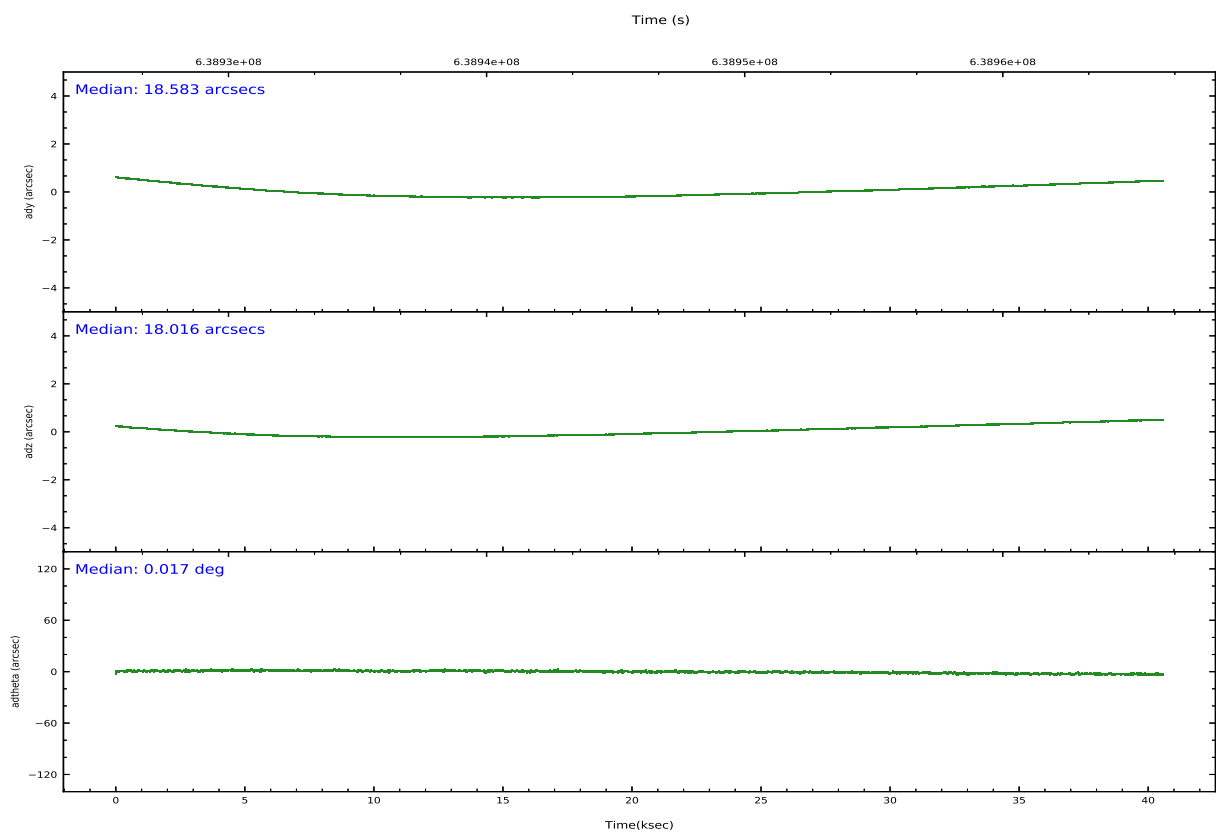
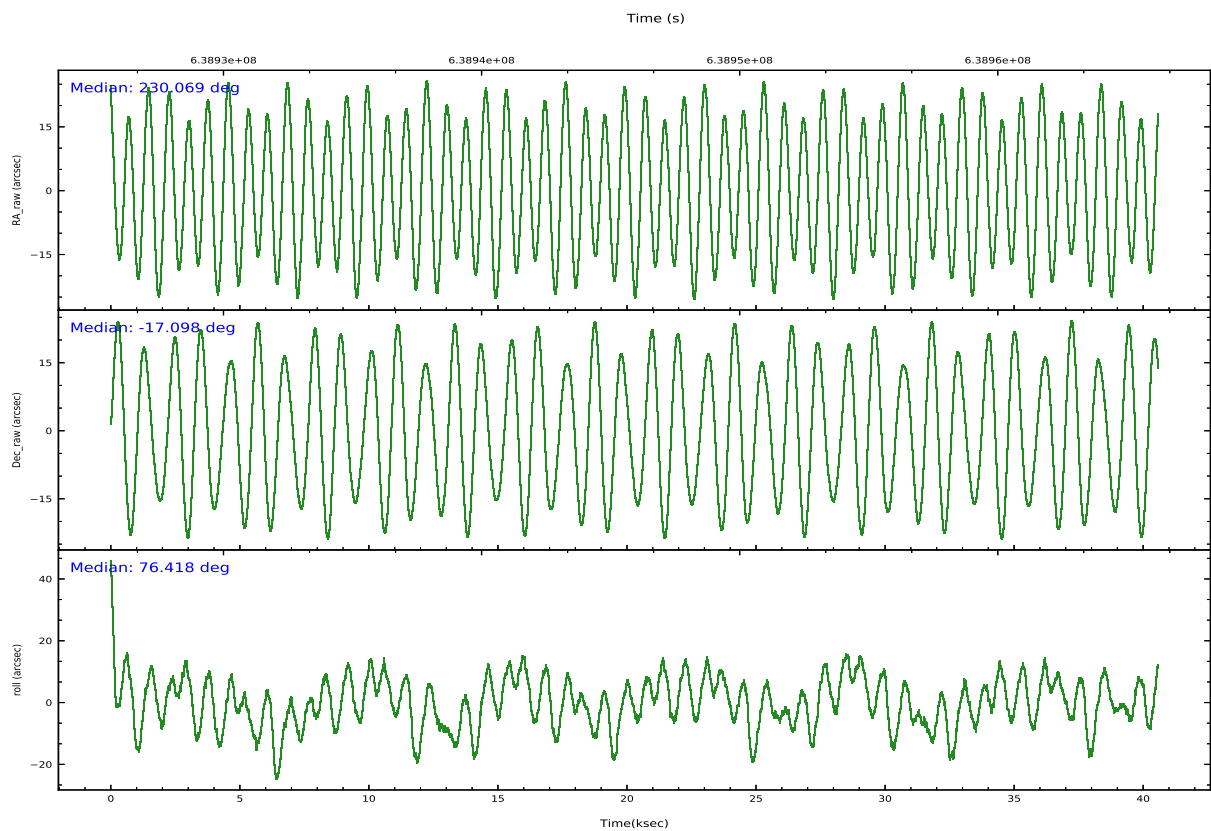
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	230.077170	230.07249511969
[deg] Pointing Dec	-17.124298	-17.104628241853
[deg] Pointing Roll	76.535588	76.418373614529
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	638925816.184000	638925111.35996
Observation start date	2018-03-31T23:22:27	2018-03-31T23:11:51
[s] Observation end time (MET)	638966216.184000	638966349.67489
Observation end date	2018-04-01T10:35:47	2018-04-01T10:39:09

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



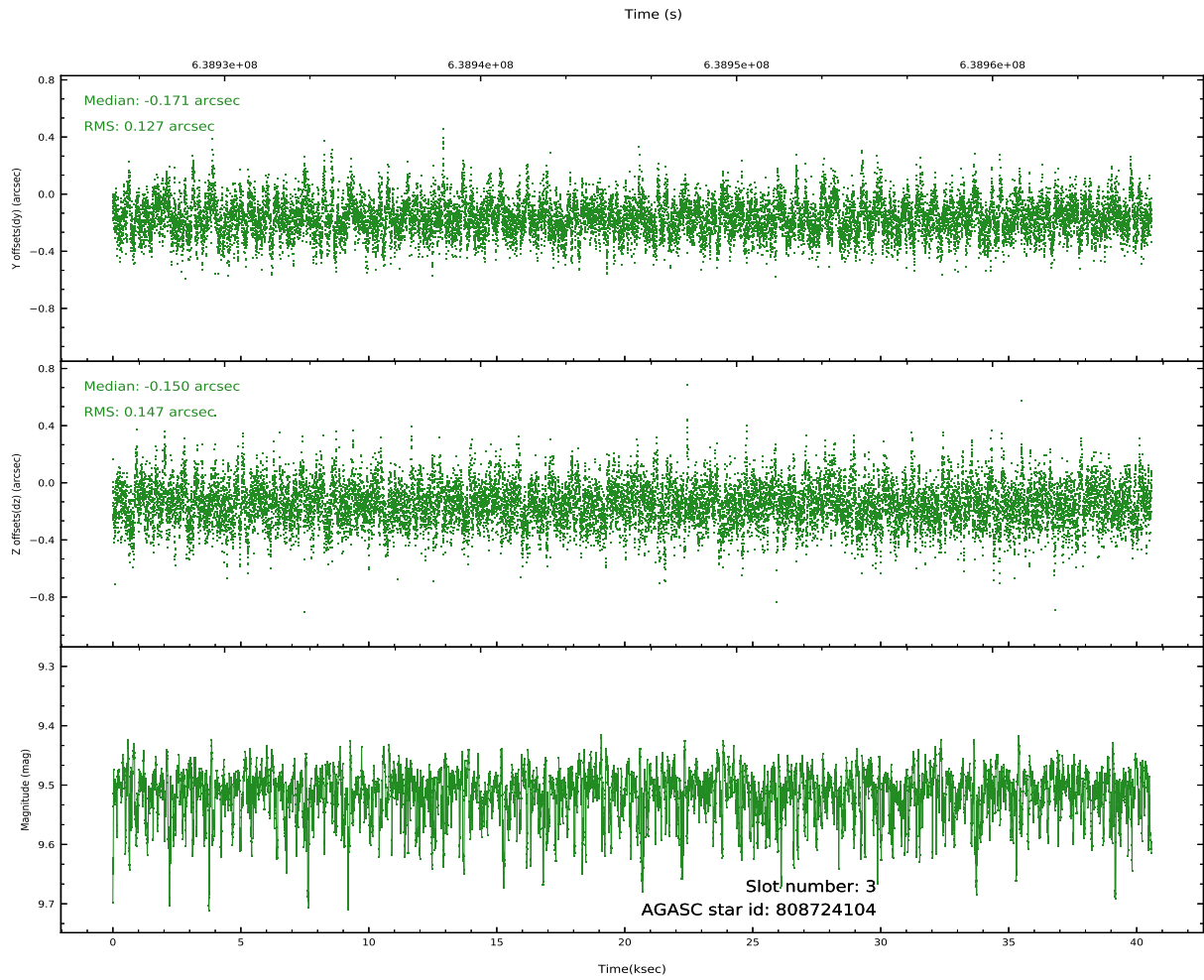
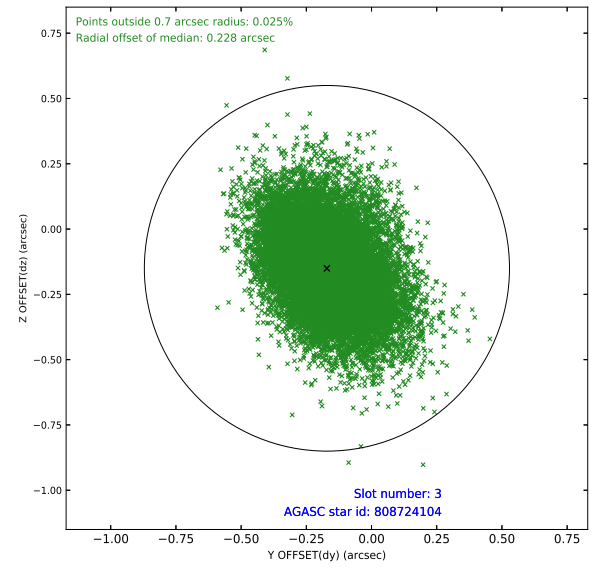
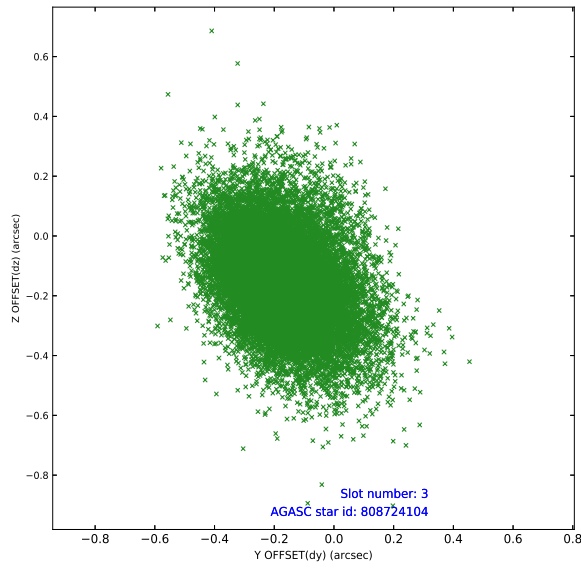


Slot Statistics

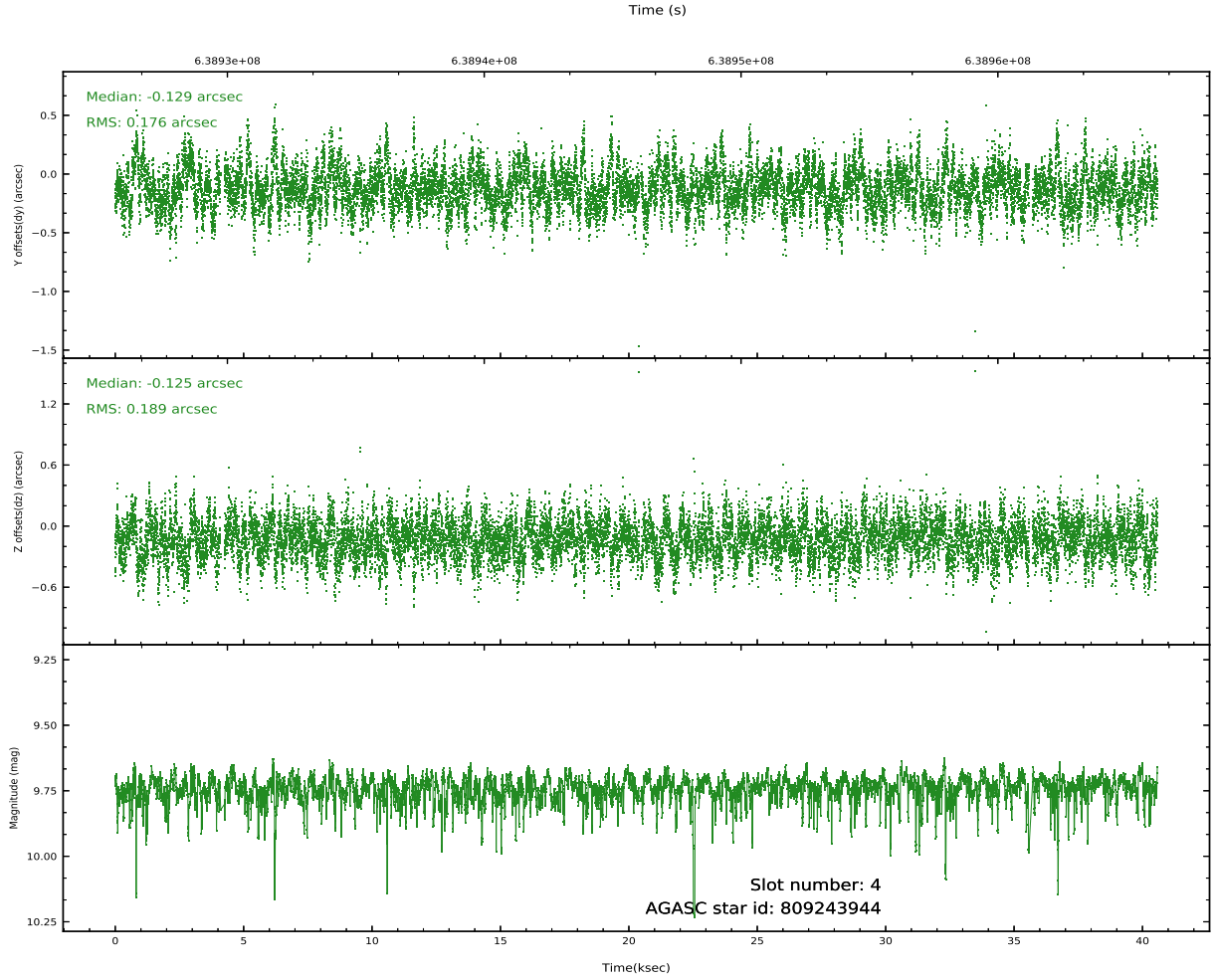
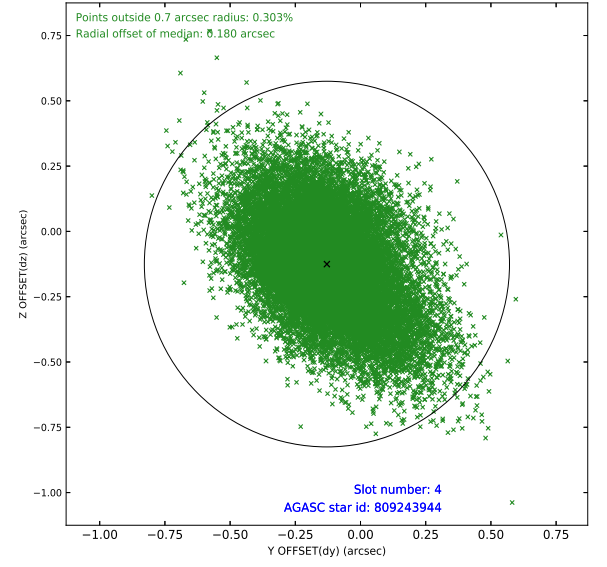
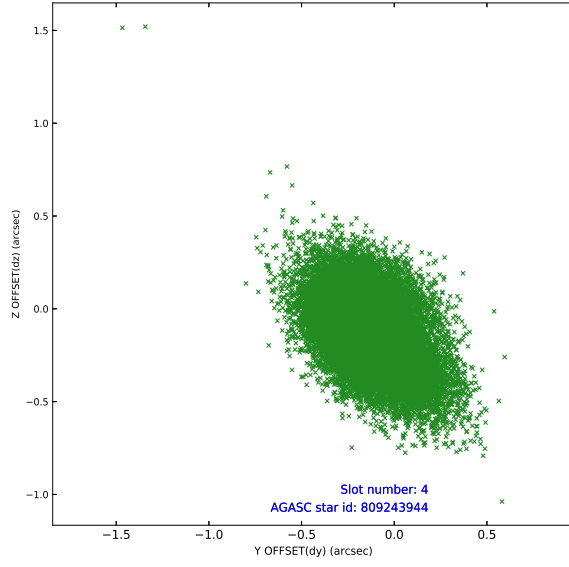
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.03	9897	1.000	-0.119	0.094	0.008	0.019	0.000000	0.000000	-774.84	-1306
1	FID		HRC-I-2	7.05	9897	1.000	0.289	-0.142	0.009	0.015	0.000000	0.000000	838.12	-1308
2	FID		HRC-I-4	7.04	9897	1.000	-0.054	-0.044	0.007	0.015	0.000000	0.000000	1268.43	995
3	GUIDE	used	808724104	9.51	19761	1.000	-0.171	-0.150	0.201	0.347	229.979136	-16.666557	1523.33	713
4	GUIDE	used	809243944	9.74	19475	1.000	-0.129	-0.125	0.266	0.459	229.371532	-17.526378	-1976.87	2018
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	809372152	9.47	19765	1.000	0.288	0.276	0.204	0.343	230.095696	-17.693960	-1979.54	-538

2.4 Star Slots

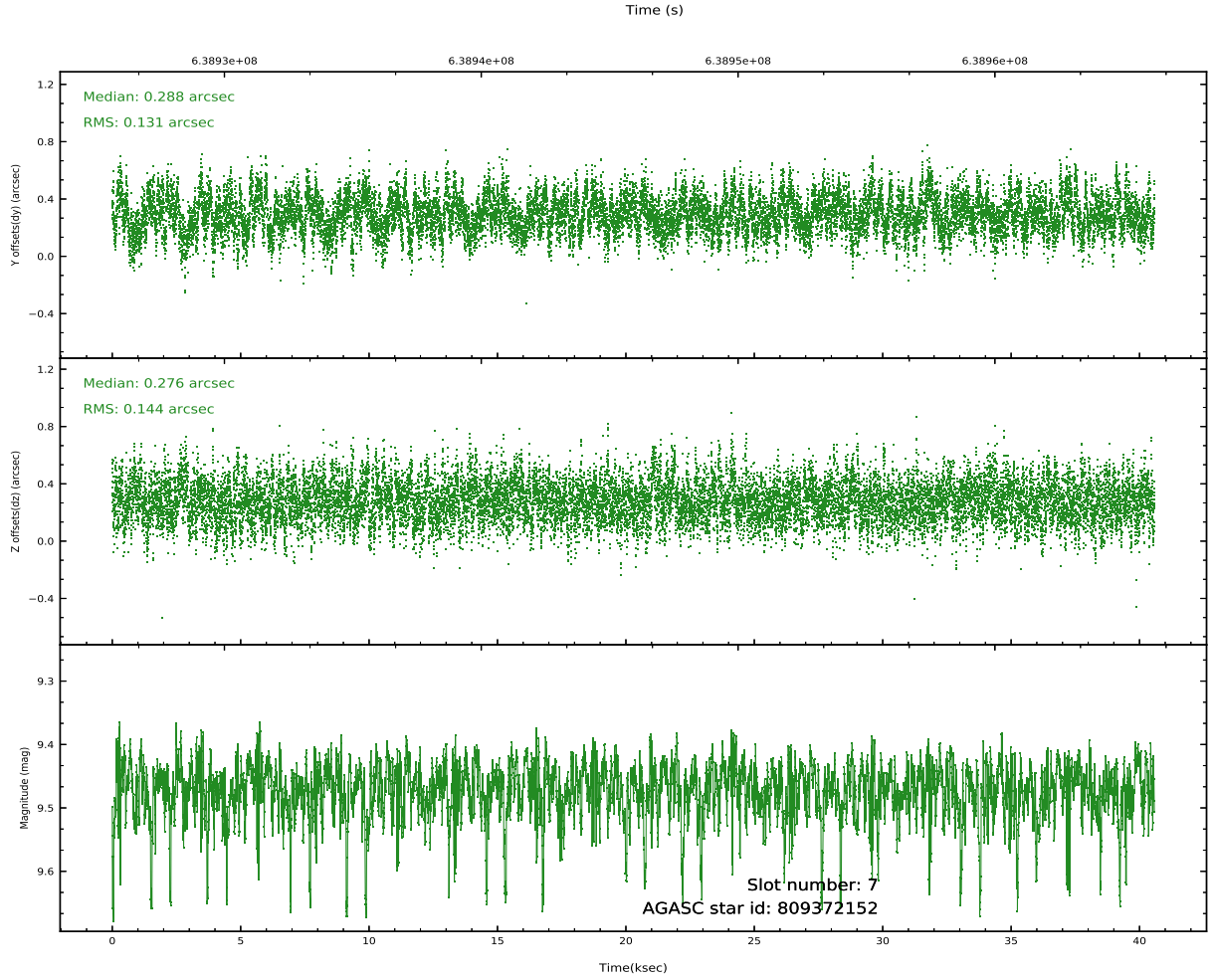
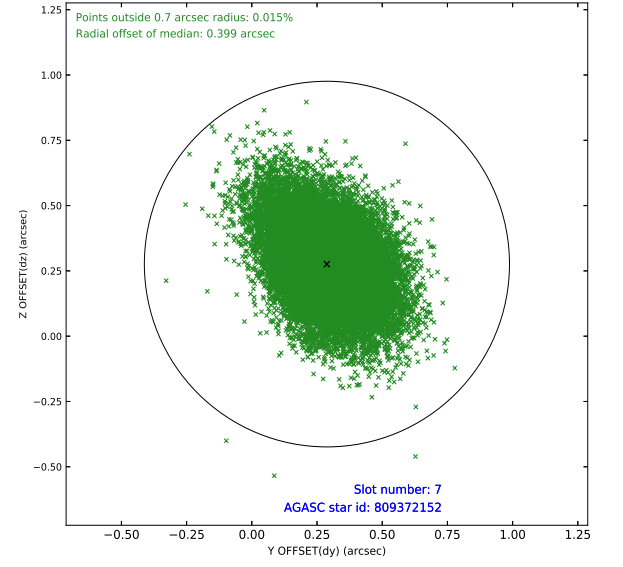
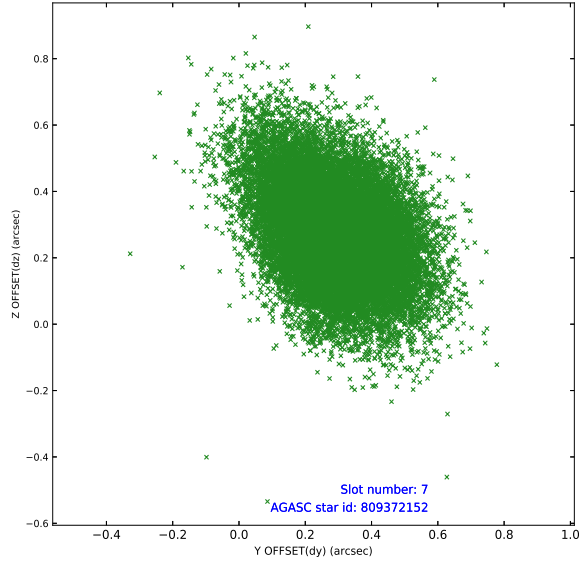
2.4.1 Slot 3



2.4.2 Slot 4

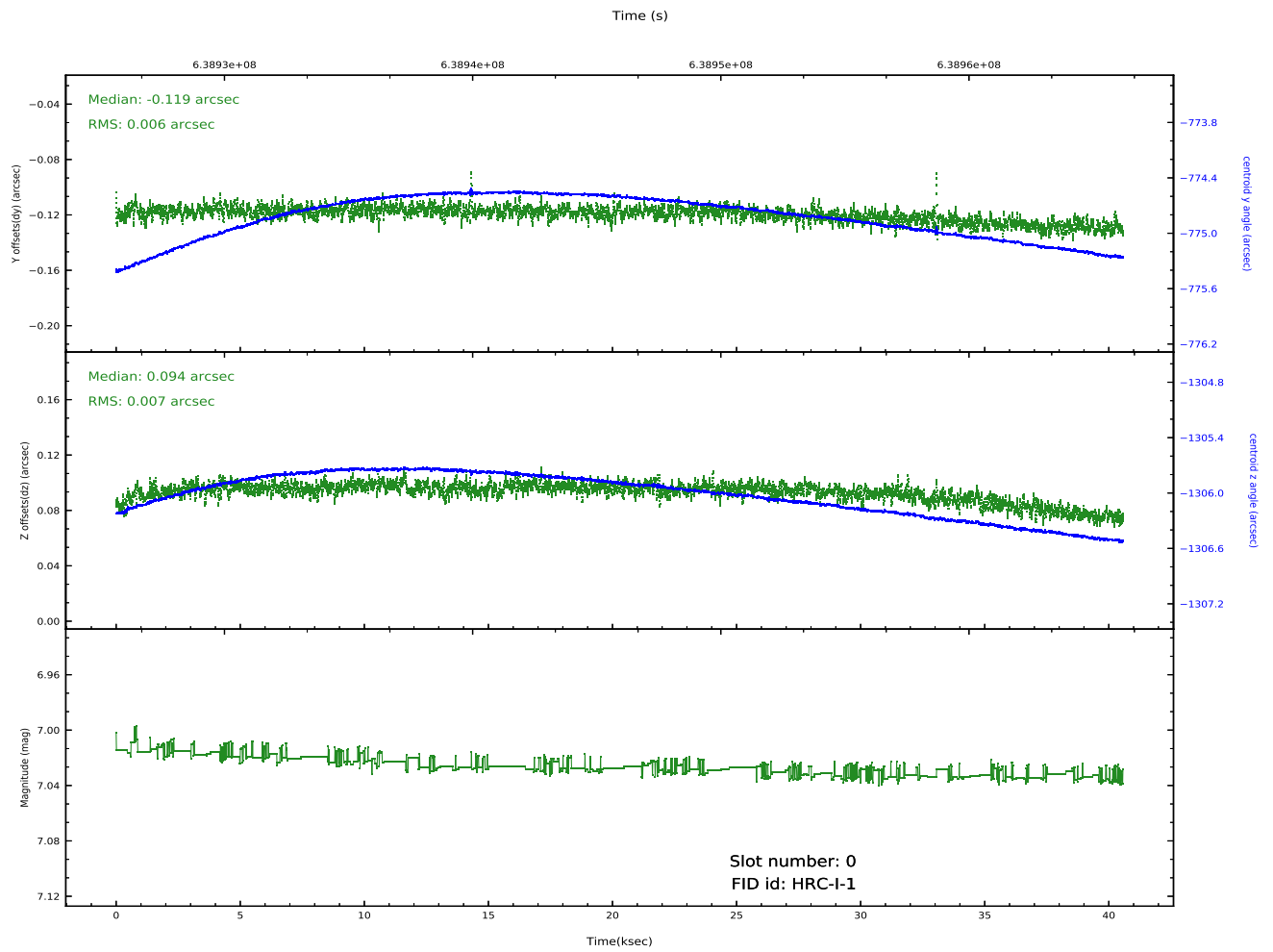
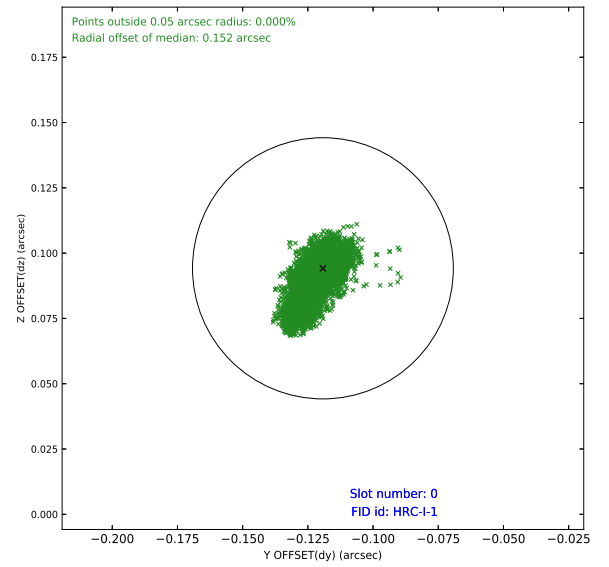
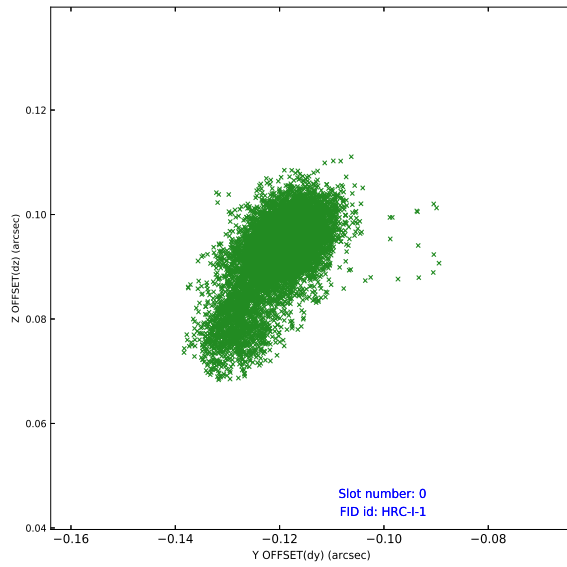


2.4.3 Slot 7

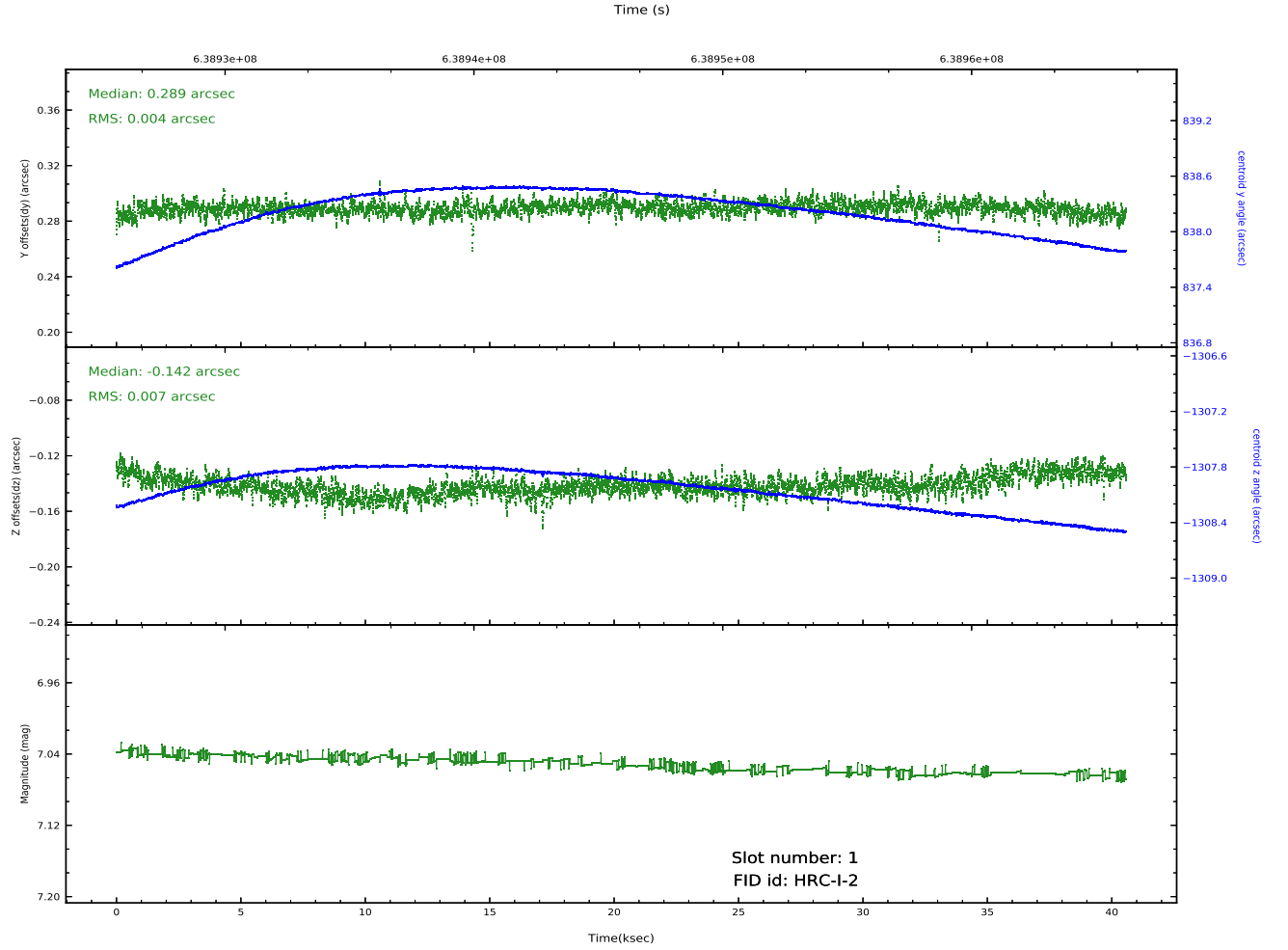
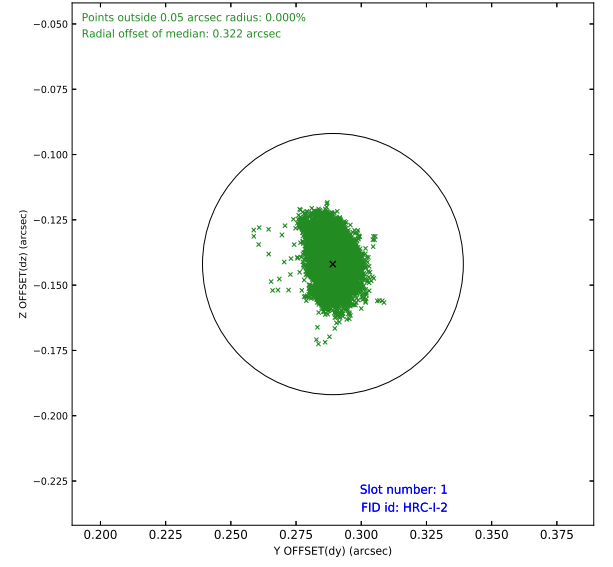
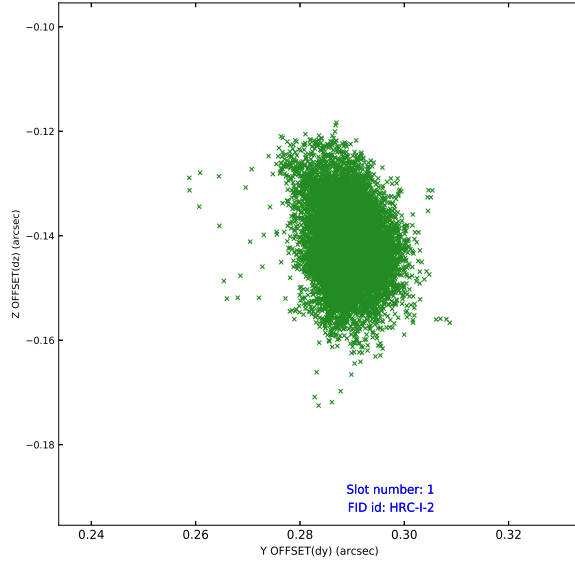


2.5 FID Slots

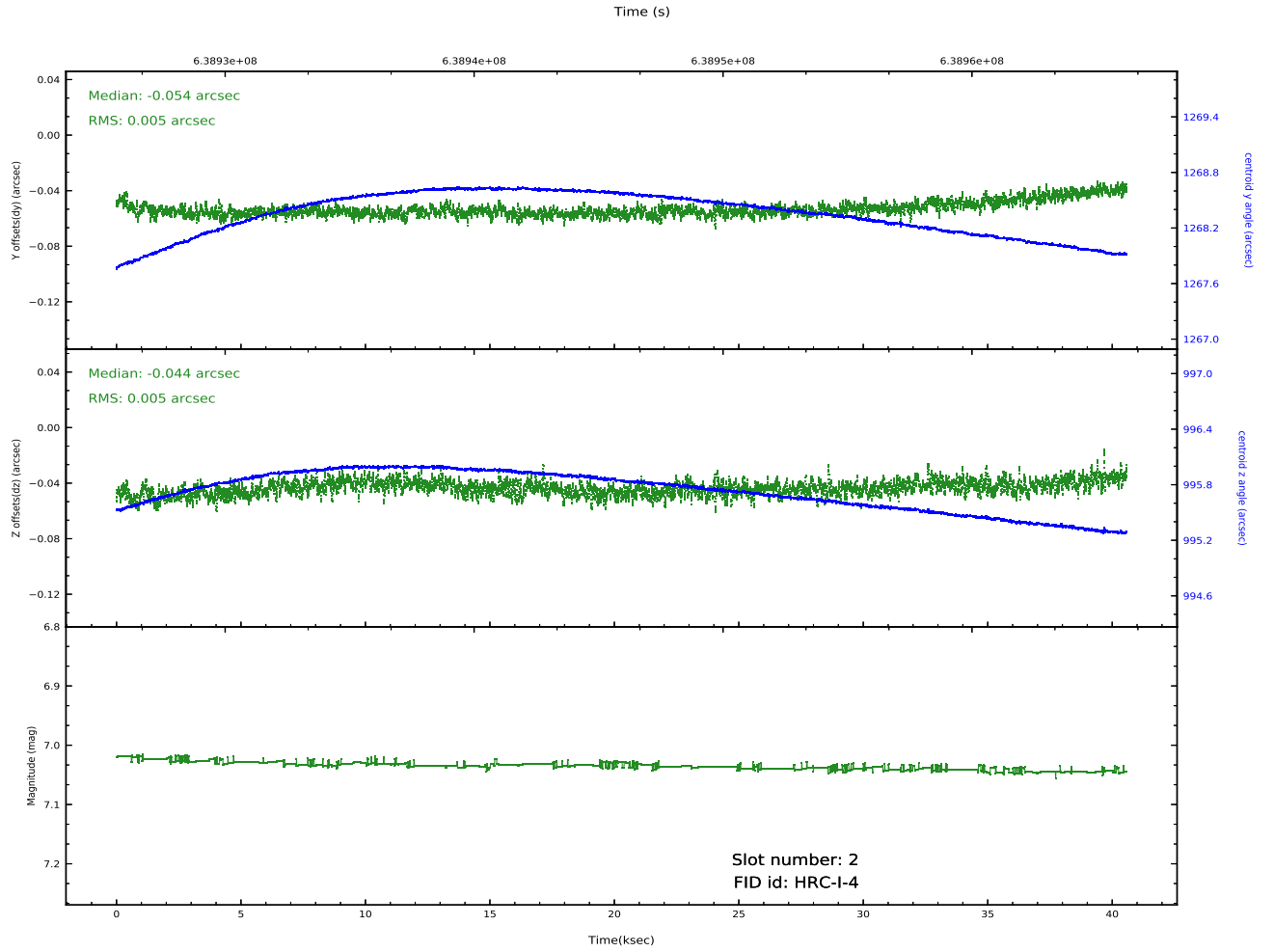
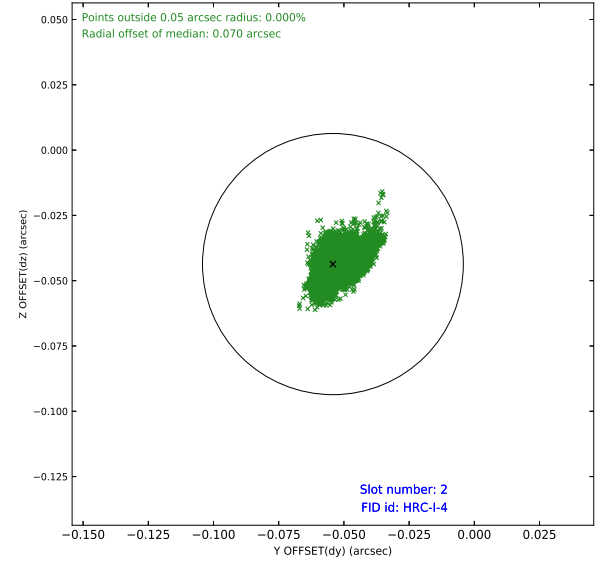
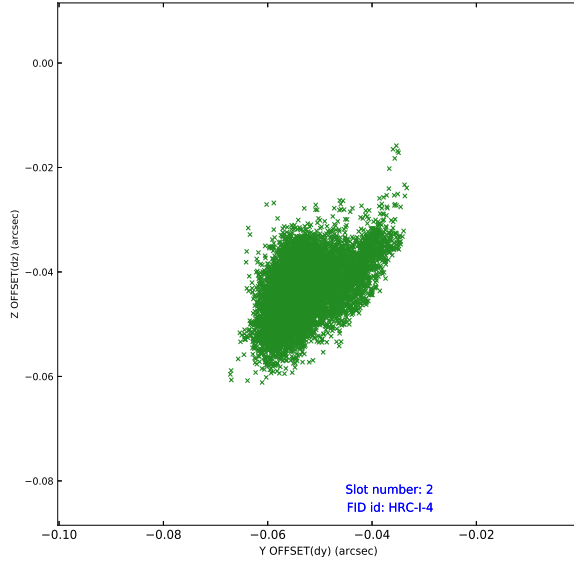
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.58103364408

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.

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The guide stars in slots 5 and 6 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these guide stars from the solution.