

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 18679 - L2 Version 2
Chandra X-Ray Center

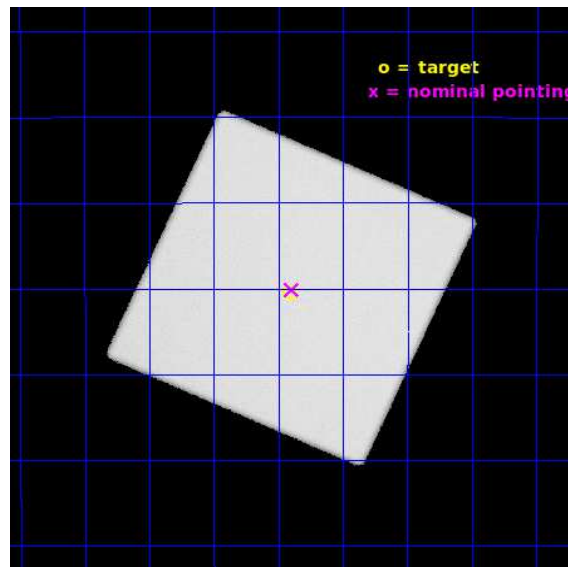
L2 Processing Date : Oct 25 2020

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1 Front

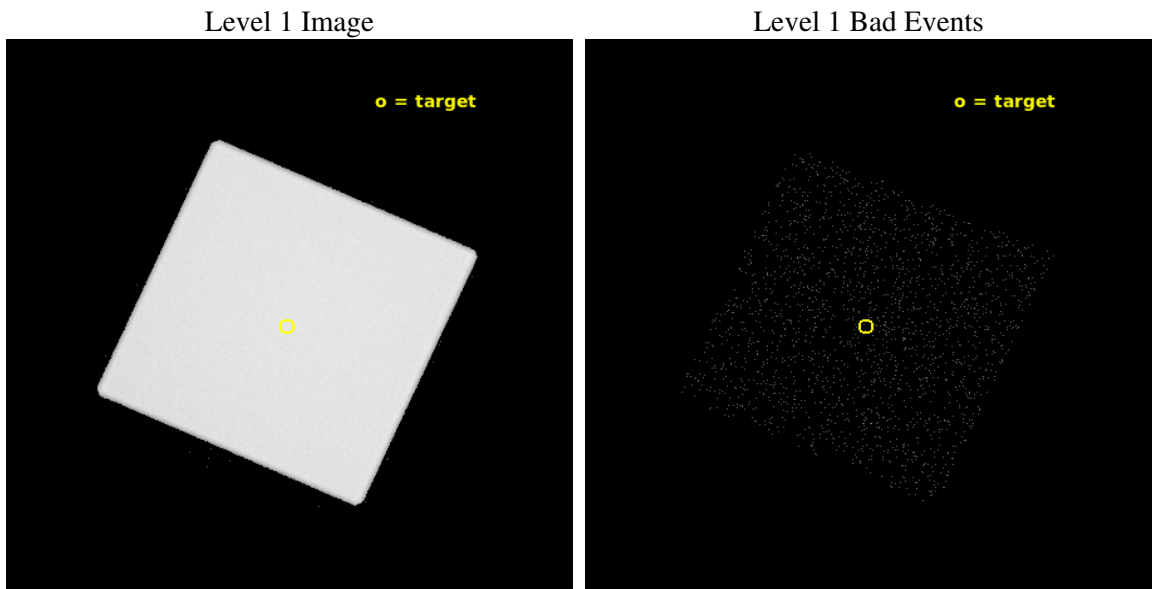
seq_num	100164	Sequence number
obs_id	18679	Observation id
title	Disecting the Morphology of Jupiter's Auroral Hot Spot	Proposal t
observer	Dr. Randy Gladstone	Principal investigator
object	Jupiter	Source name
ra_targ	224.103307	Observer's specified target RA [deg]
dec_targ	-15.506957	Observer's specified target Dec [deg]
ra_nom	224.09879669243	Nominal RA [deg]
dec_nom	-15.502200068104	Nominal Dec [deg]
roll_nom	249.20915914581	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40462.133631587	[s]
livetime	39536.486905775	Ontime multiplied by DTCOR
l2events	4556876	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	40462.133641601	[s]
caldsver	4.9.3	 	l1events	6199613	Number of level 1 events
date	2020-10-26T00:53:39	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

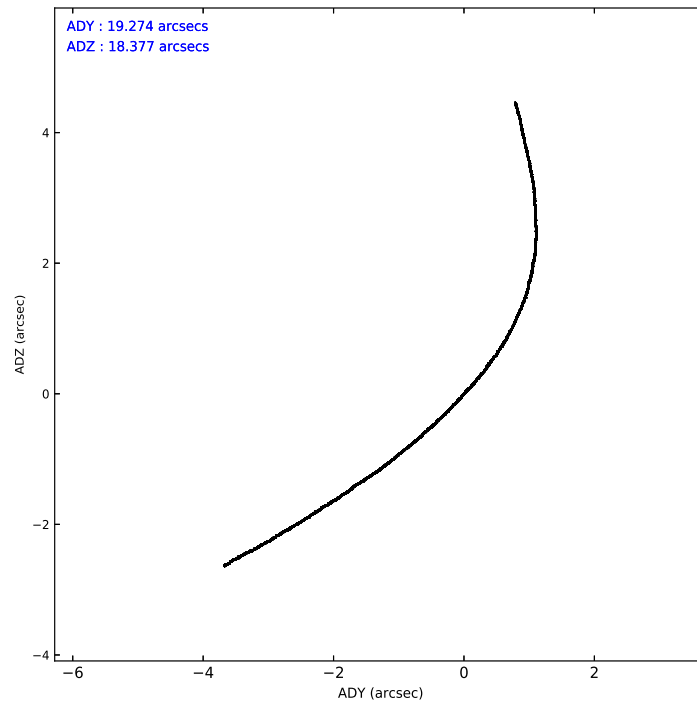
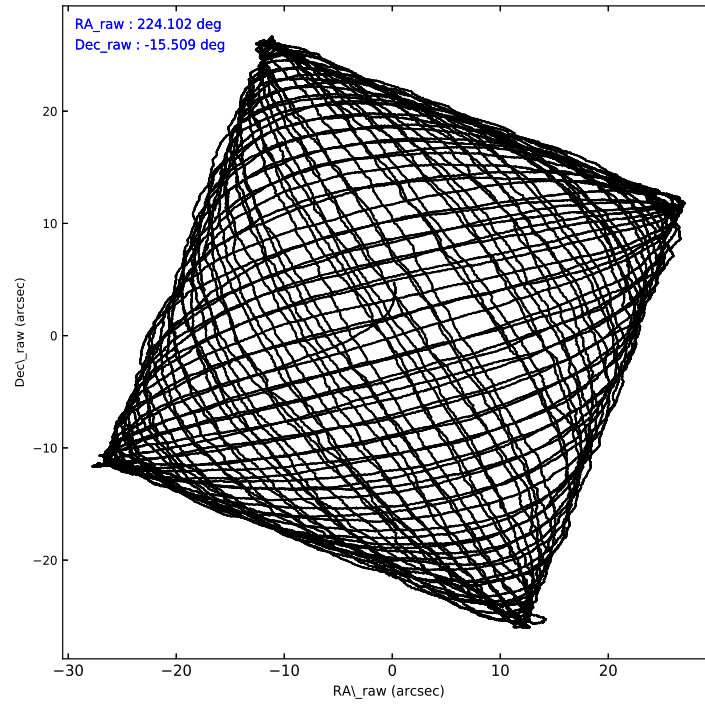
	segment 0
level 1 events	6199613
rejected events	182451
rejected %	2%

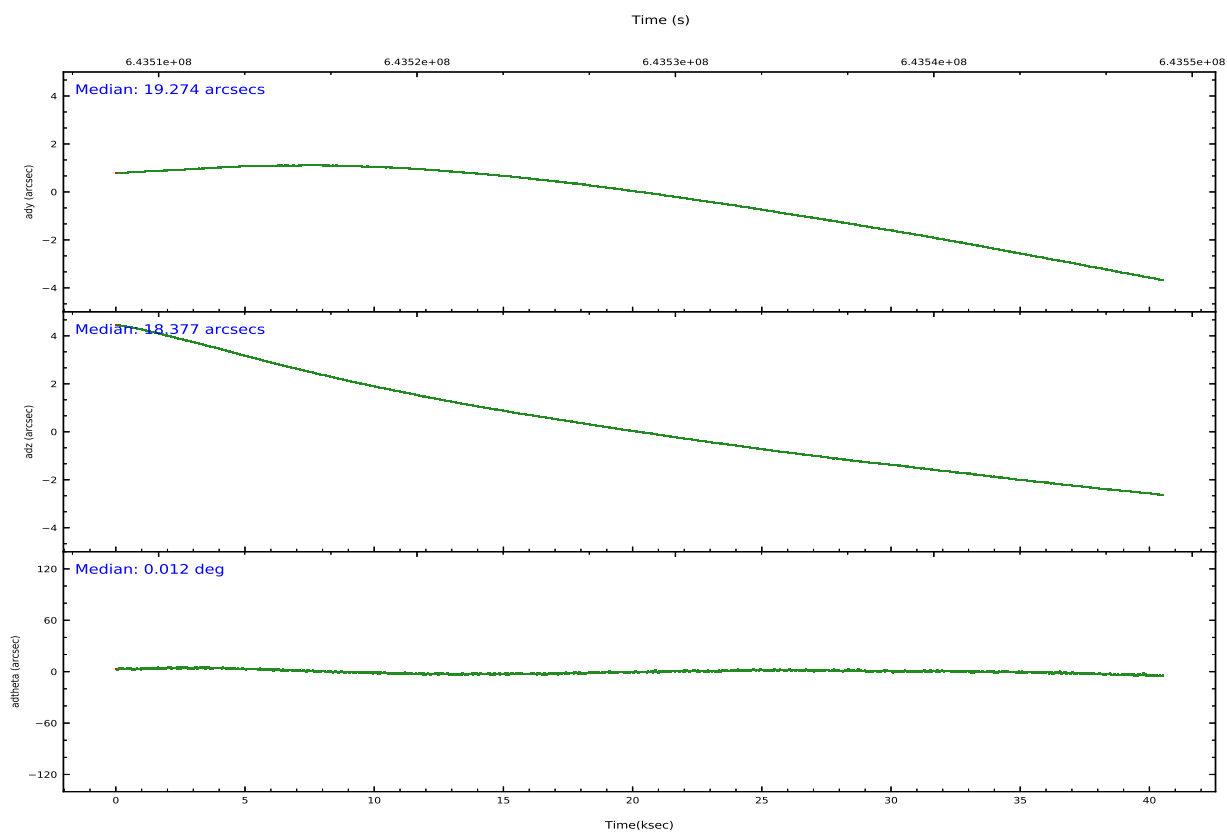
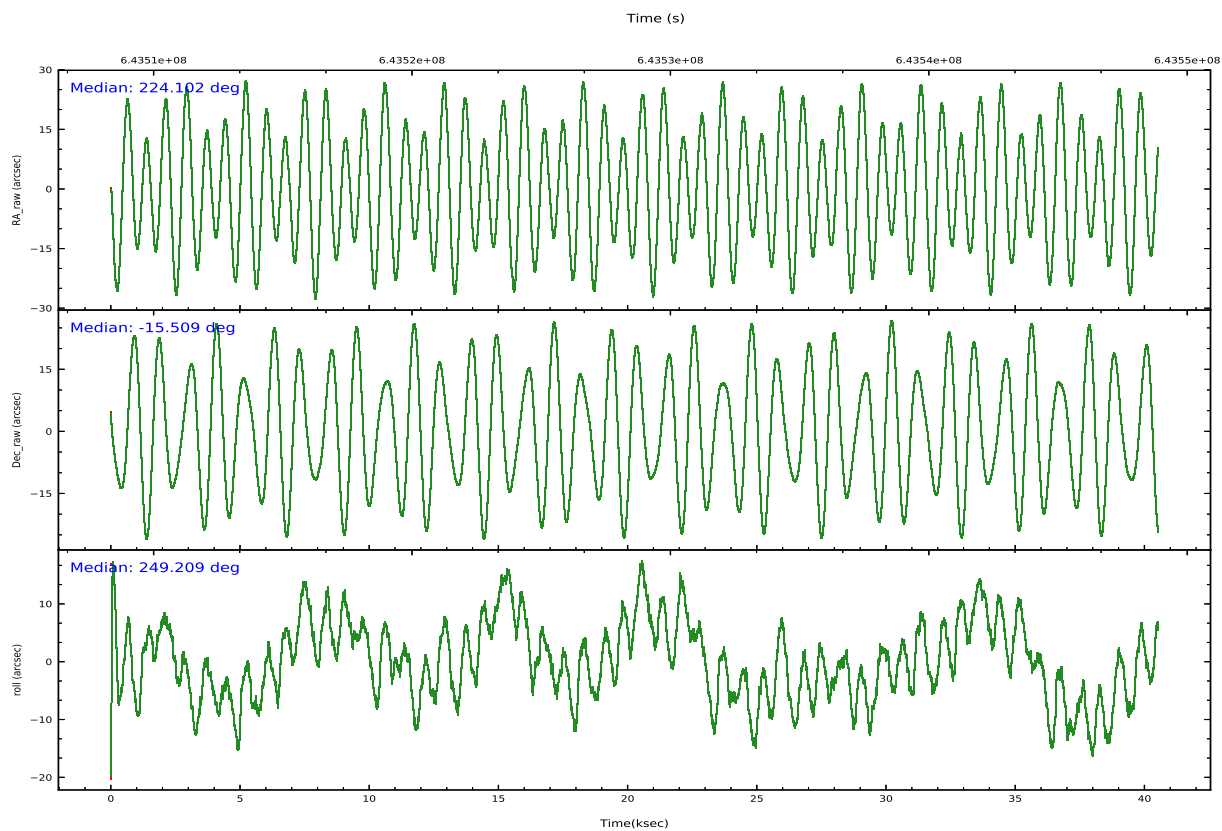
2.2 Compared Parameters

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	224.096872	224.09879669243
[deg] Pointing Dec	-15.482322	-15.502200068104
[deg] Pointing Roll	249.320897	249.20915914581
[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)	643508474.184000	643507253.18057
Observation start date	2018-05-24T00:20:05	2018-05-24T00:00:53
[s] Observation end time (MET)	643548874.184000	643549749.17058
Observation end date	2018-05-24T11:33:25	2018-05-24T11:49:09

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

2.3 Aspect



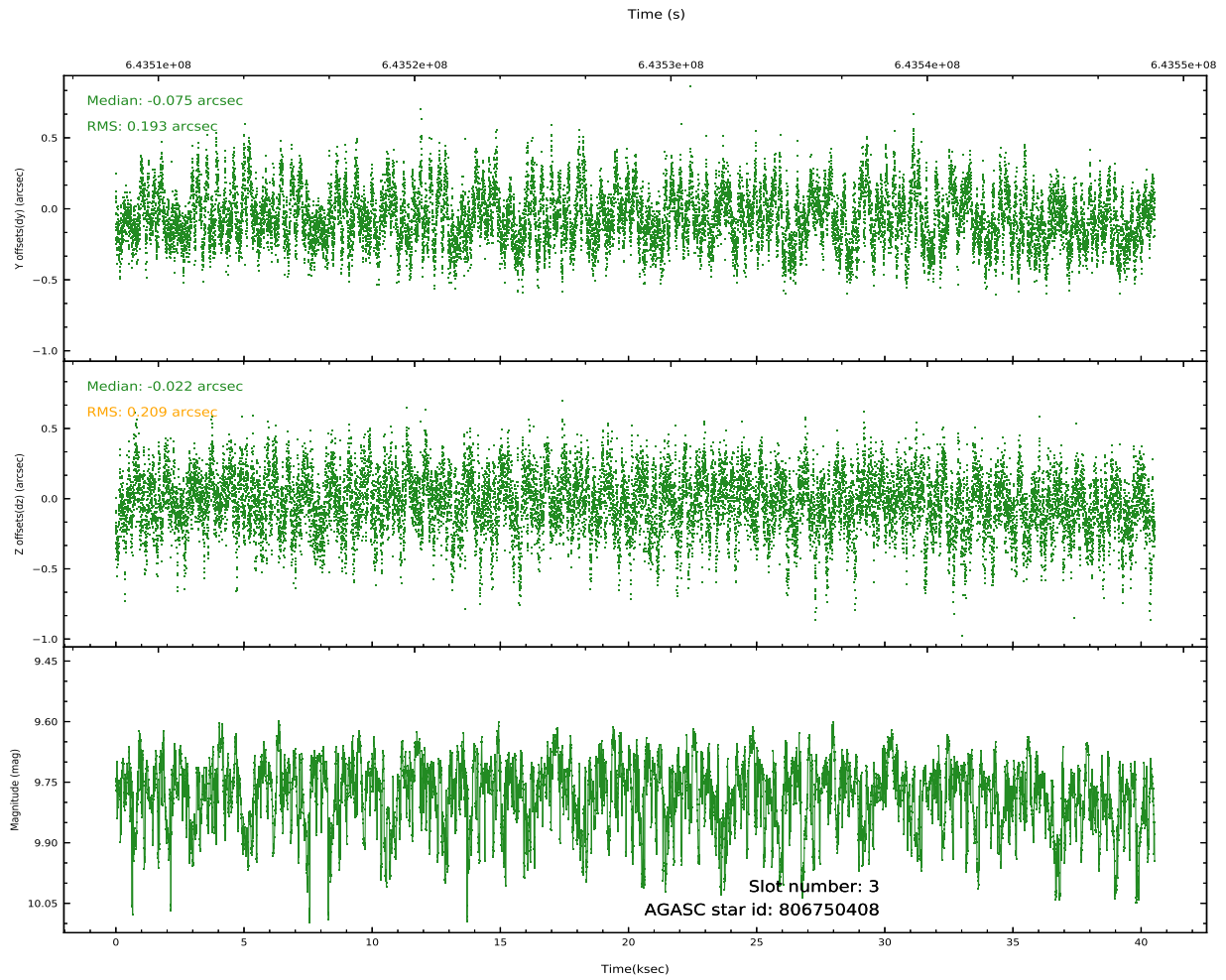
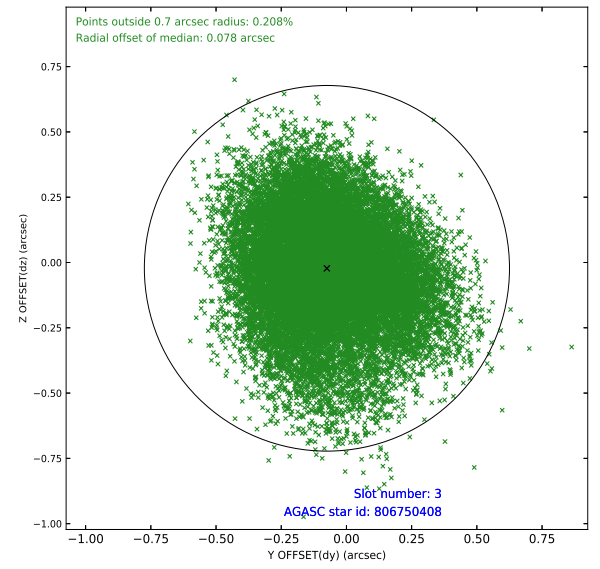
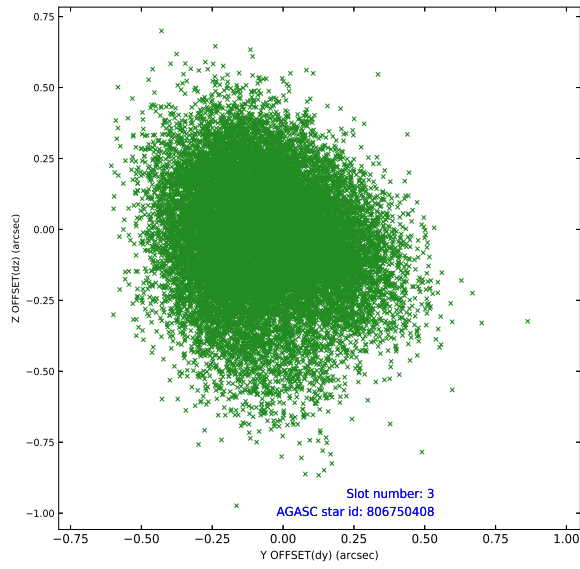


Slot Statistics

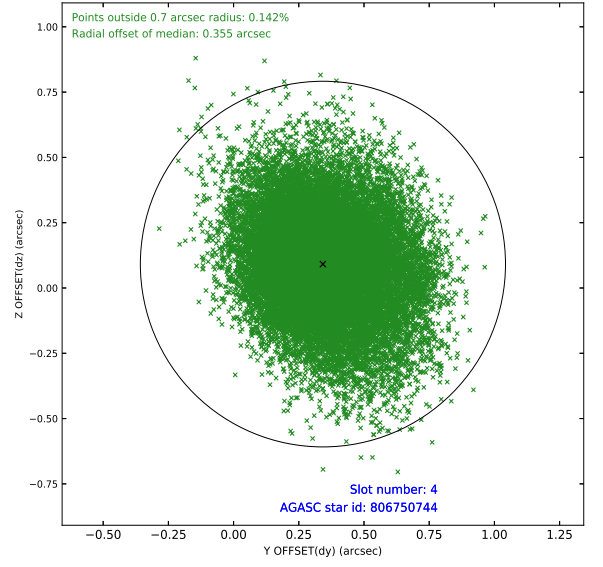
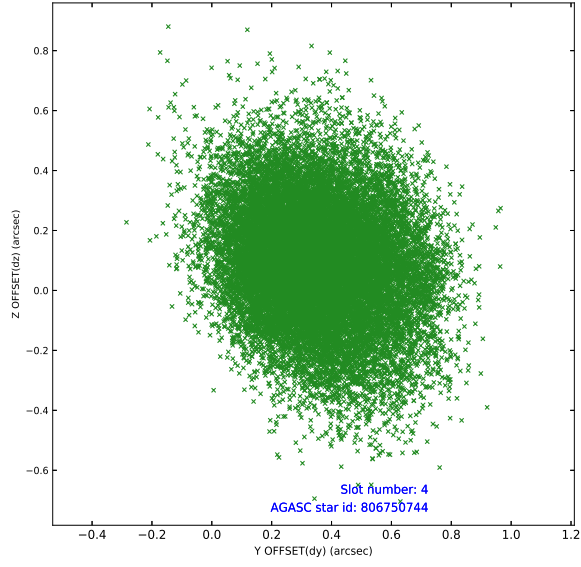
	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		HRC-I-1	7.04	9883	1.000	-0.069	0.056	0.022	0.046	0.000000	0.000000	-774.87	-13
	FID		HRC-I-2	7.07	9886	1.000	0.340	-0.264	0.043	0.058	0.000000	0.000000	838.09	-13
	FID		HRC-I-3	7.13	9884	1.000	-0.150	0.118	0.038	0.052	0.000000	0.000000	-1203.21	9
	GUIDE	used	806750408	9.77	19701	1.000	-0.075	-0.022	0.307	0.485	223.579743	-15.424787	442.31	-17
	GUIDE	used	806750744	9.33	19743	1.000	0.343	0.092	0.281	0.454	223.886958	-15.340288	-219.92	-8
	BAD	used	808457432	8.07	17119	1.000	-0.304	-0.111	0.153	0.264	224.010594	-15.656521	692.48	-
	GUIDE	used	808459704	8.22	19759	1.000	-0.035	-0.039	0.174	0.293	224.719819	-15.436362	-914.89	19
	GUIDE	used	732827856	9.67	19635	1.000	-0.002	0.087	0.285	0.461	224.370280	-14.909346	-2264.67	1

2.4 Star Slots

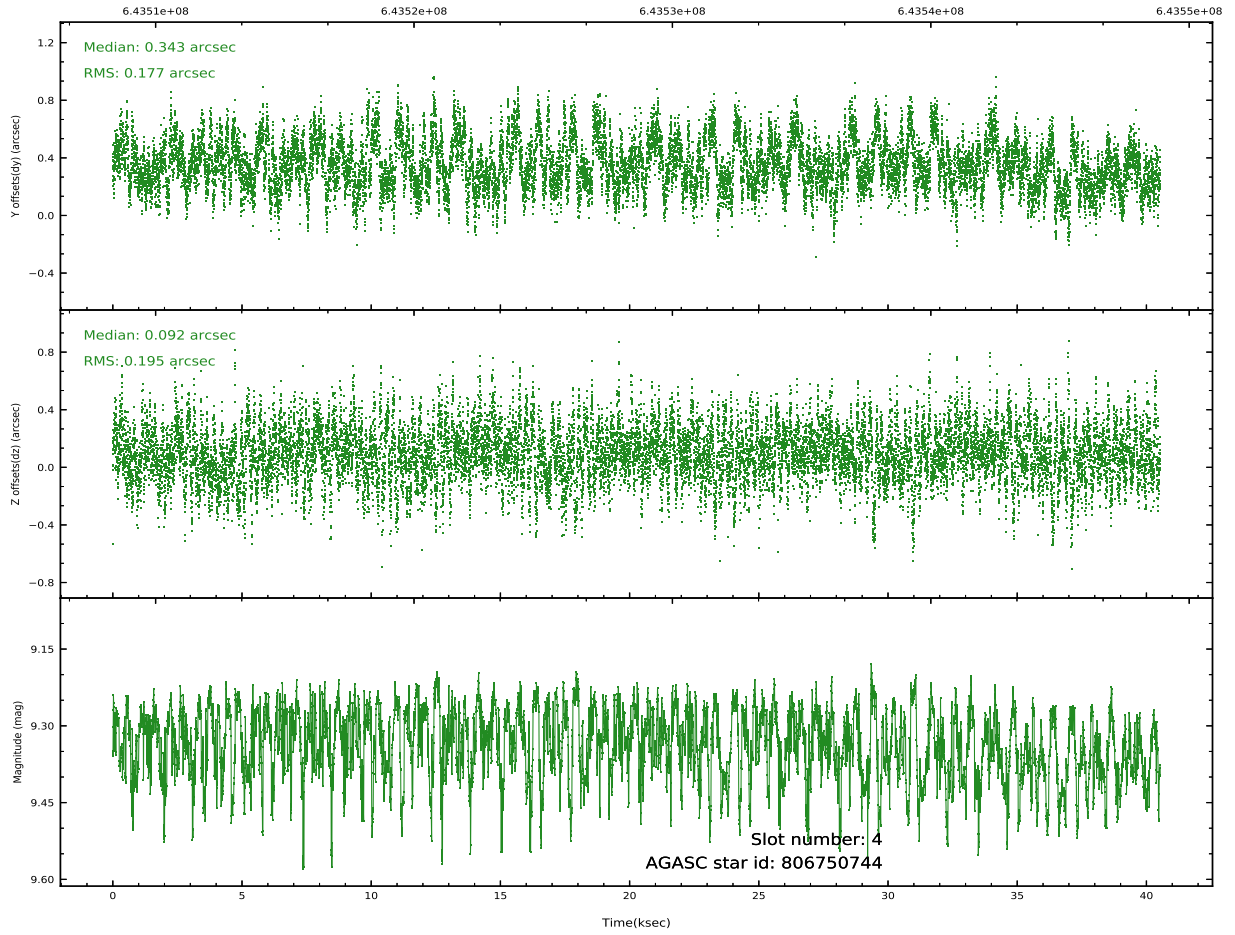
2.4.1 Slot 3



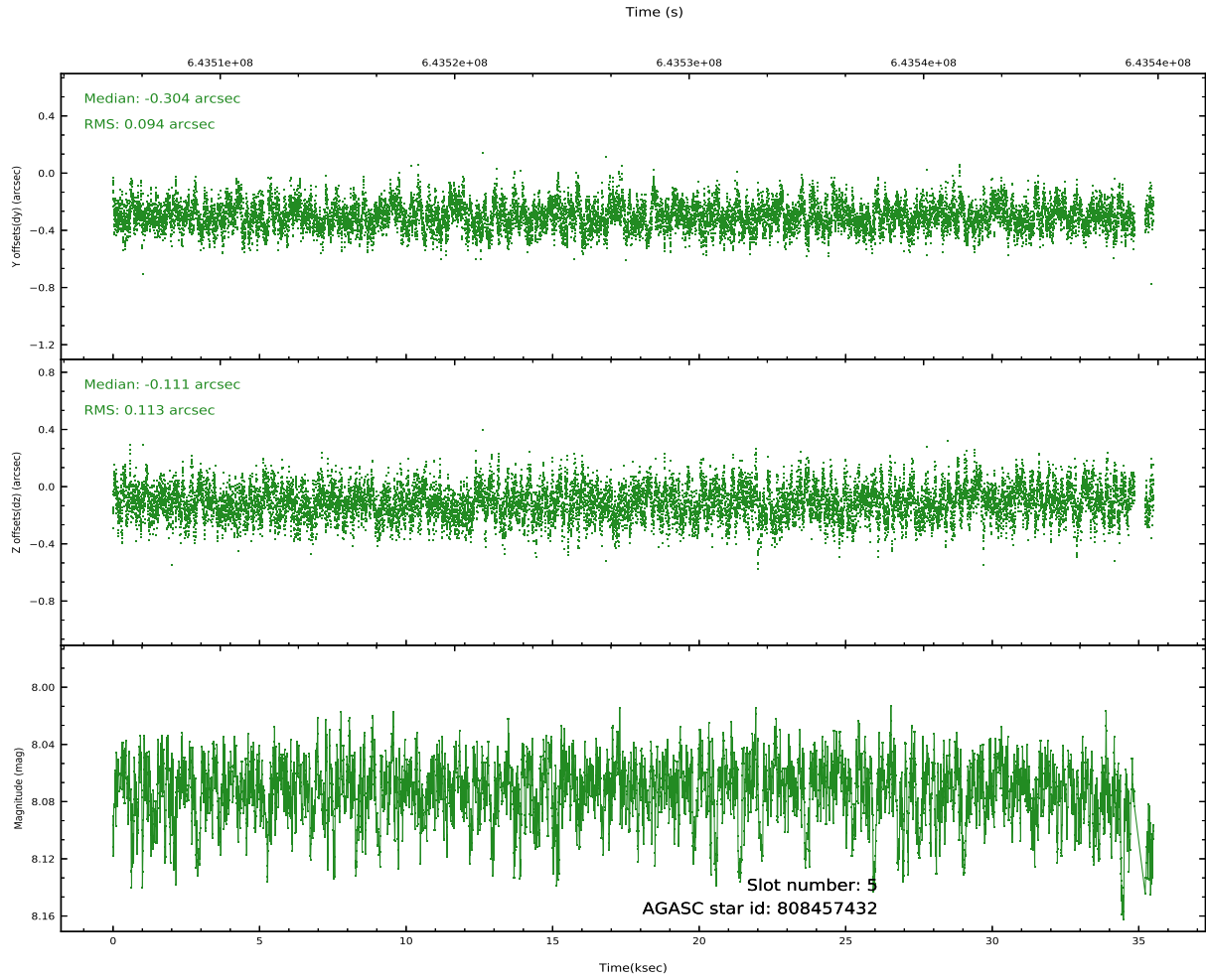
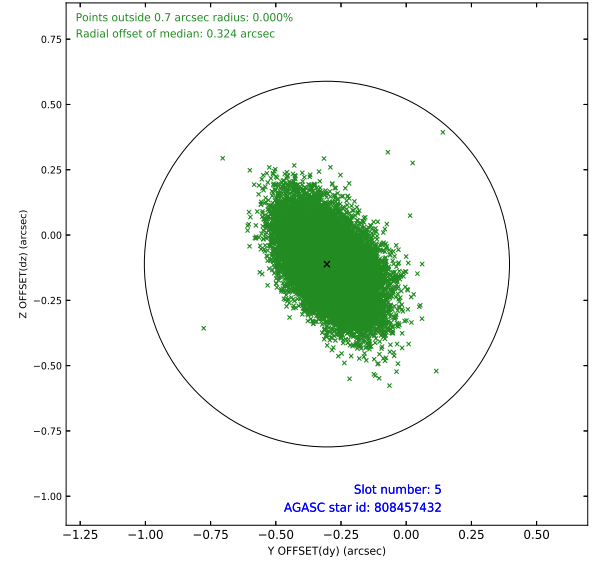
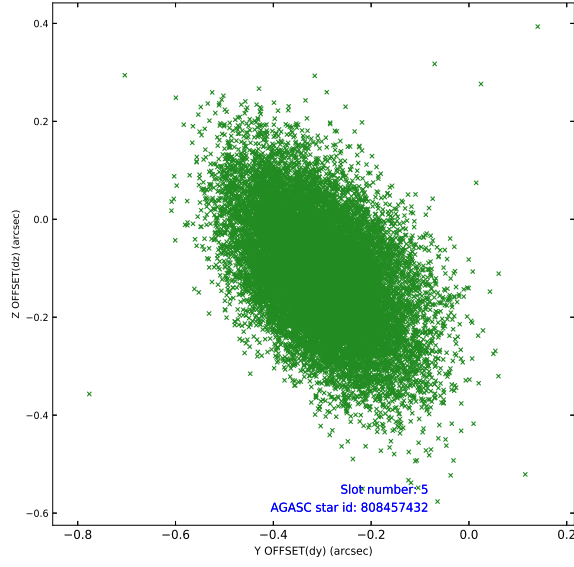
2.4.2 Slot 4



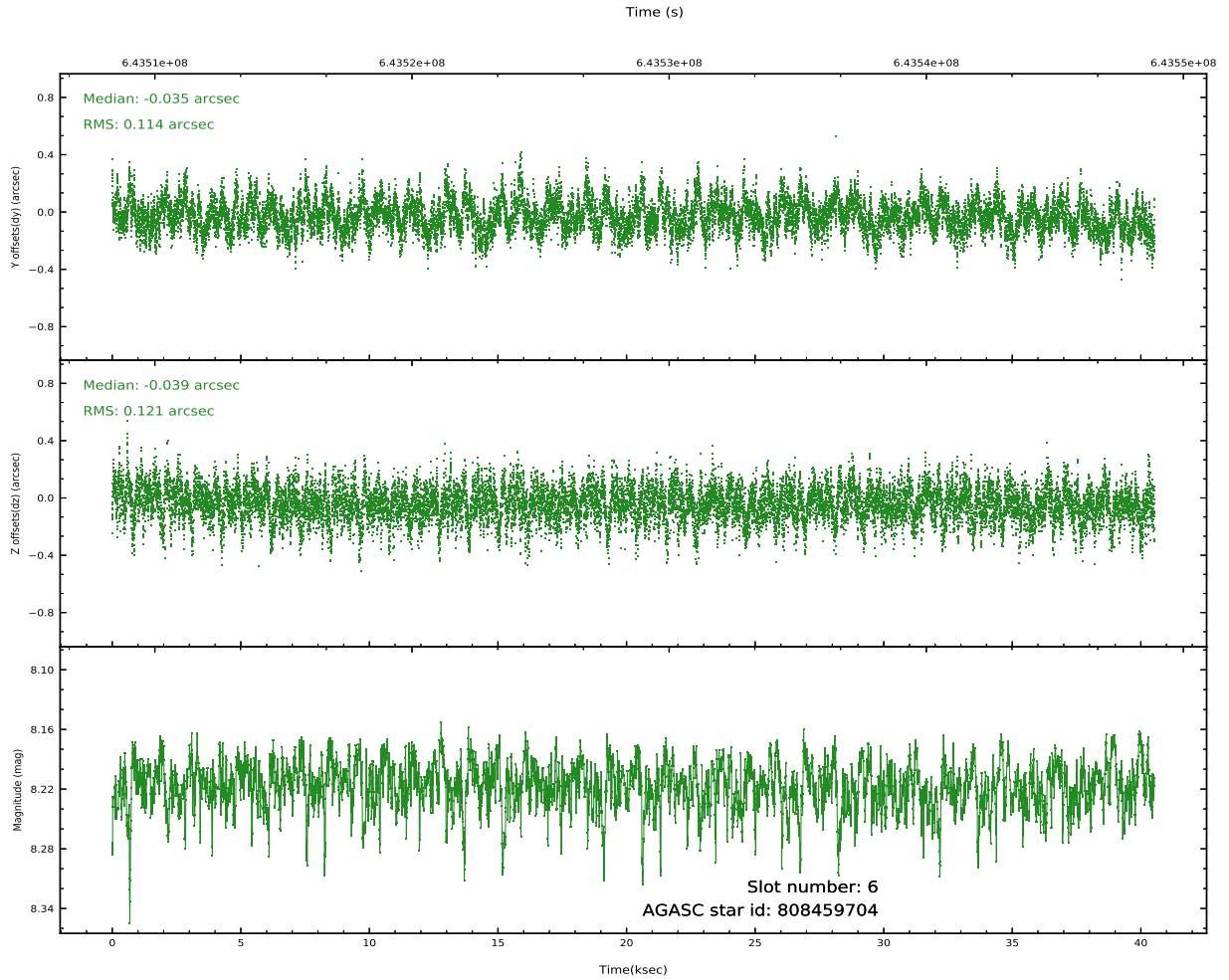
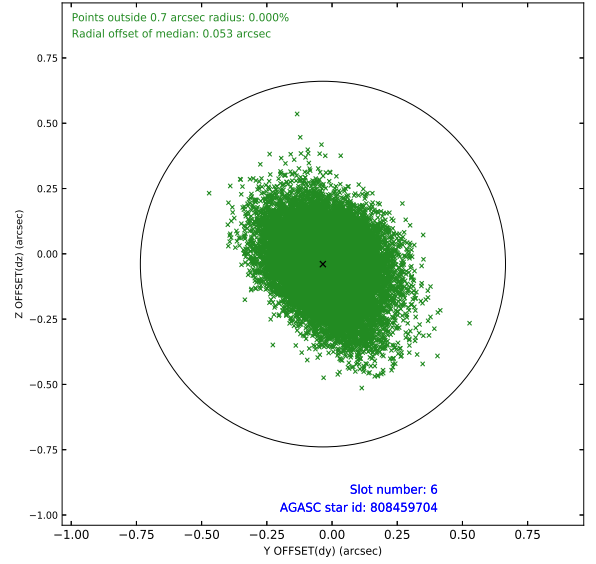
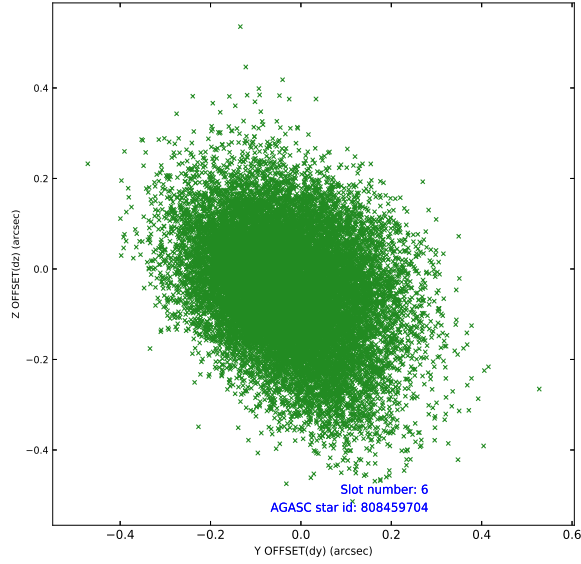
Time (s)



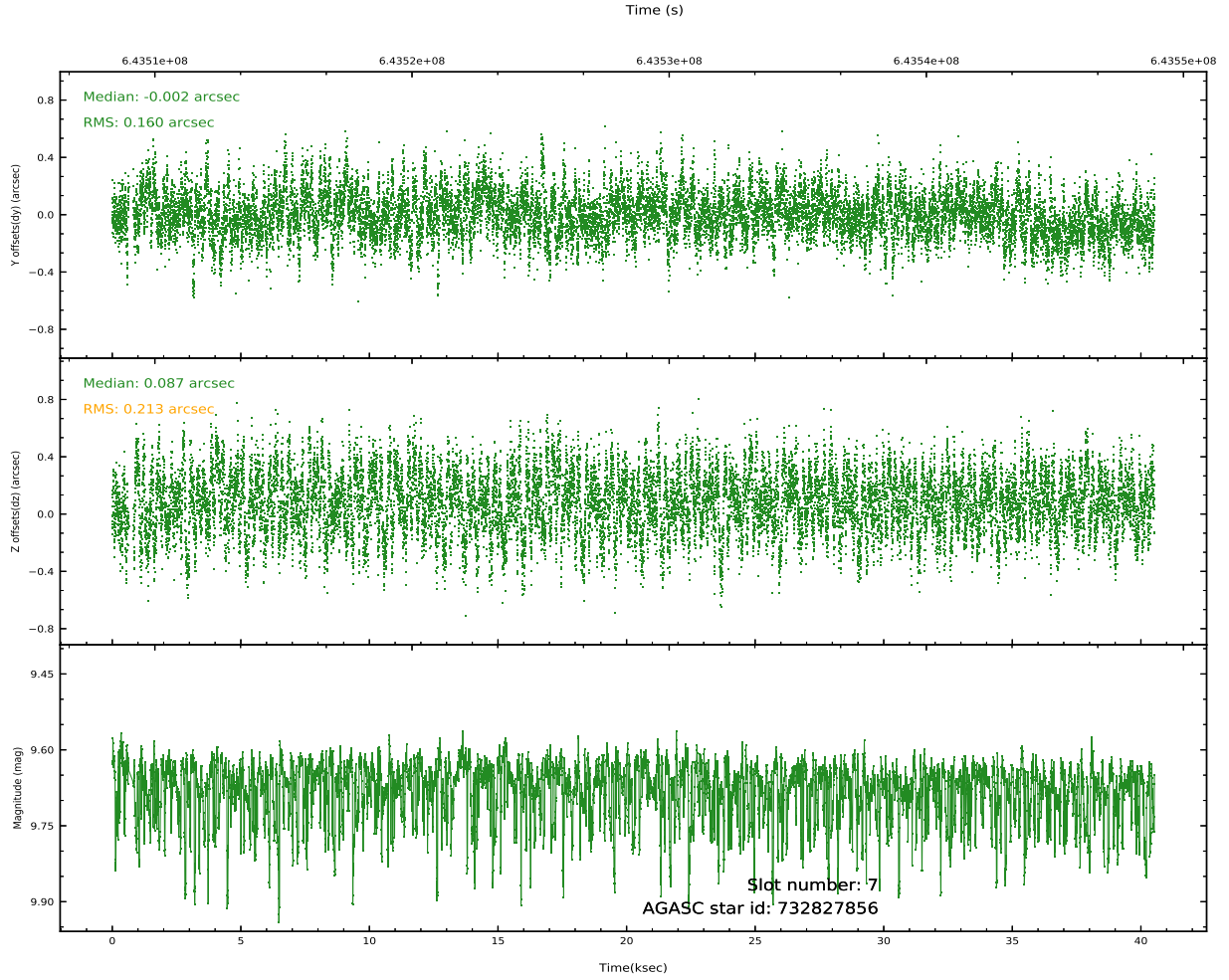
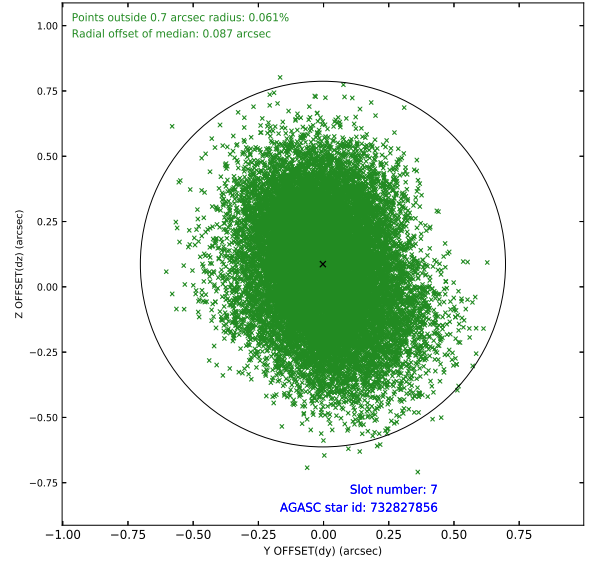
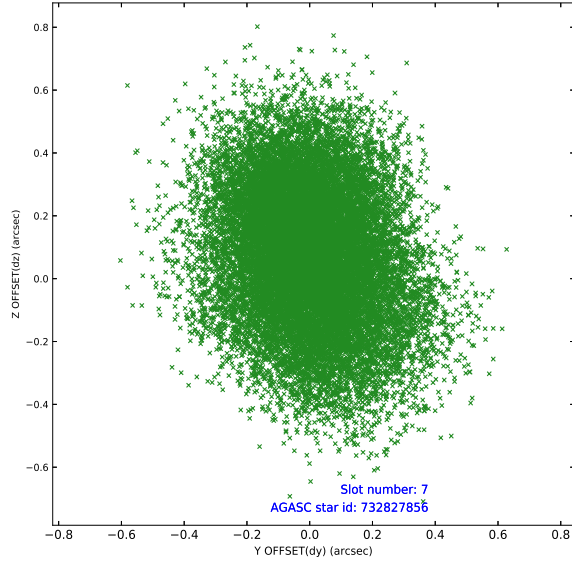
2.4.3 Slot 5



2.4.4 Slot 6

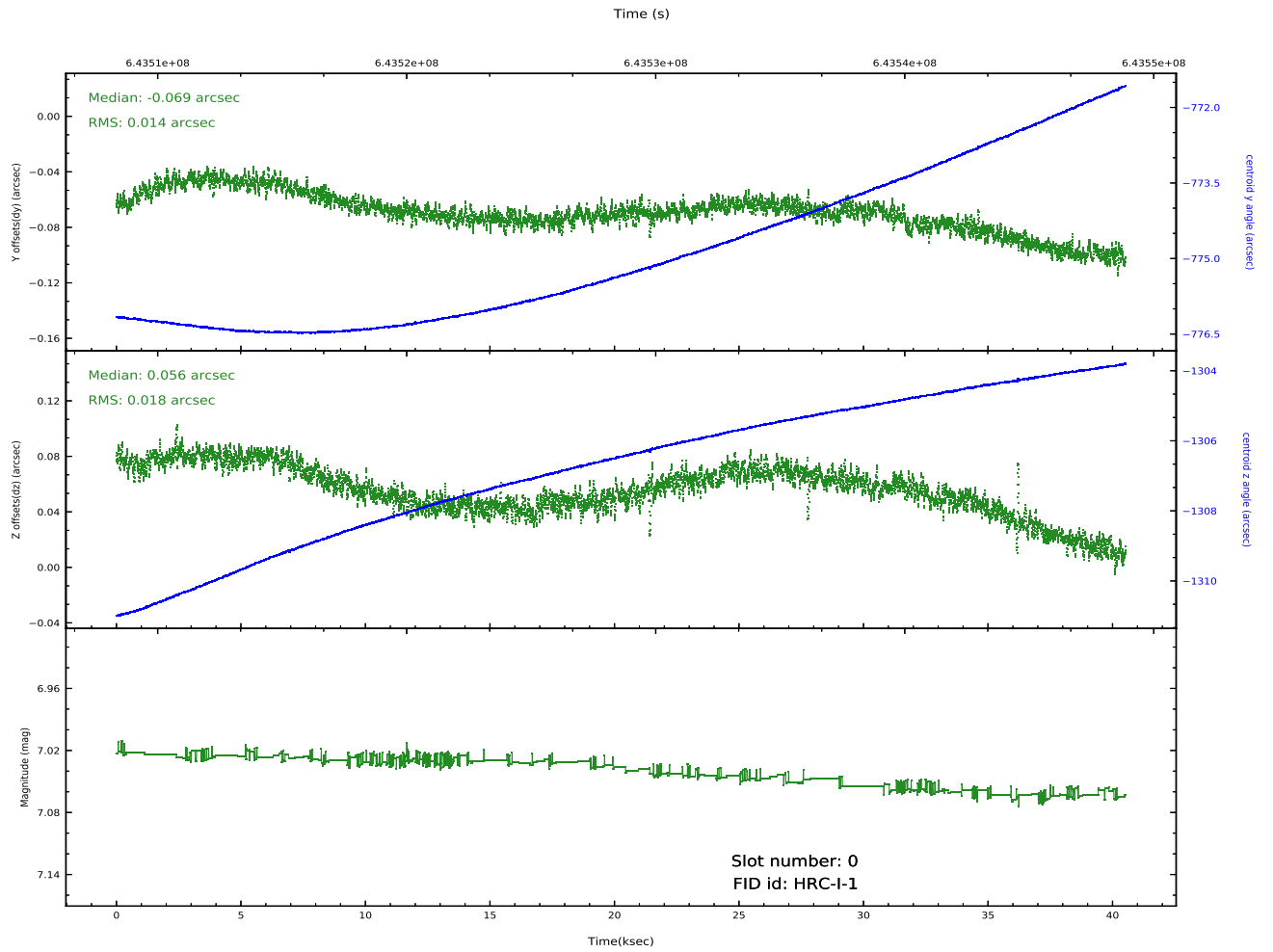
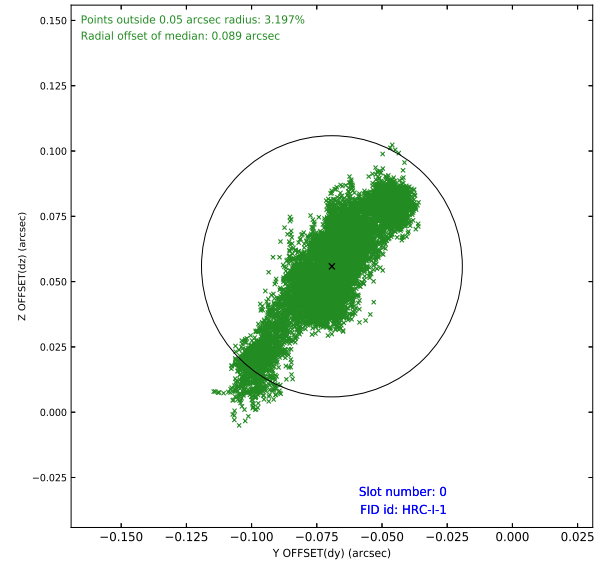
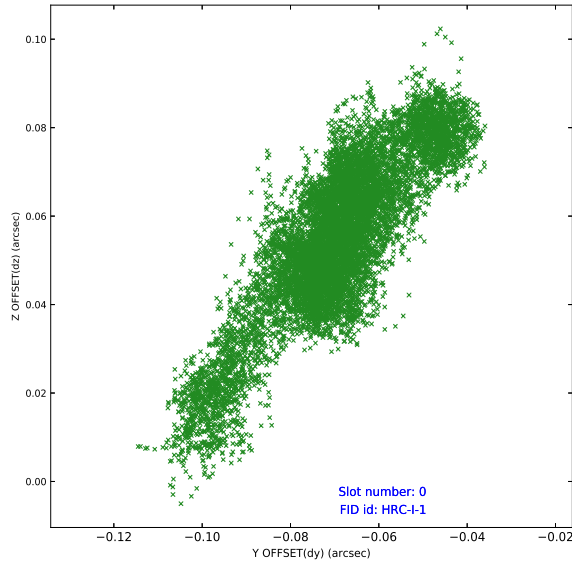


2.4.5 Slot 7

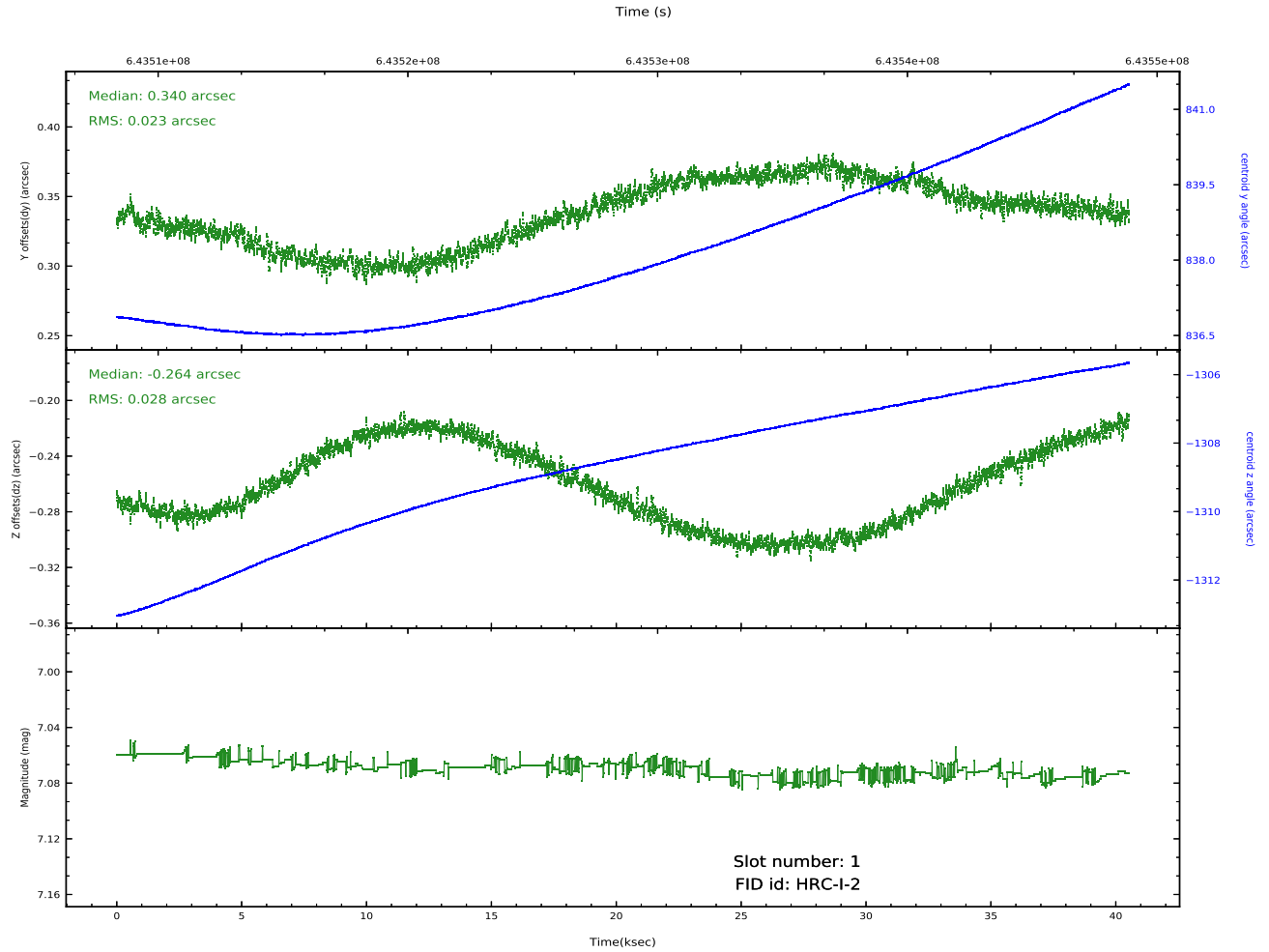
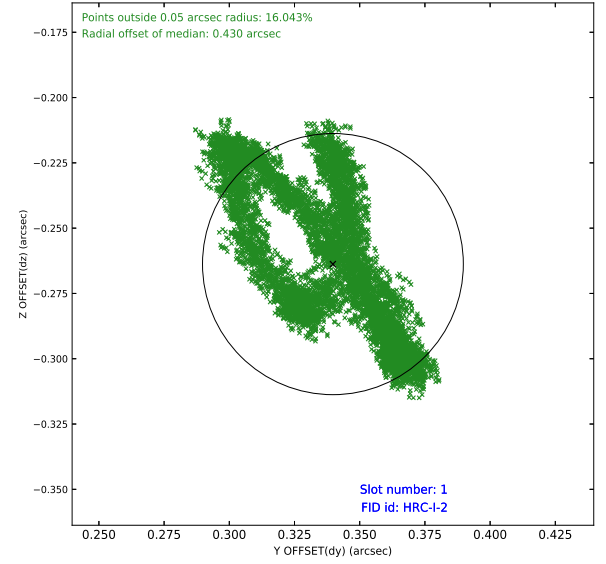
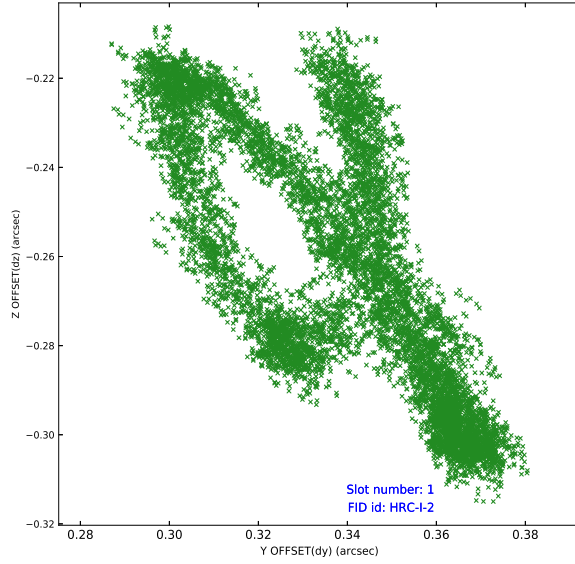


2.5 FID Slots

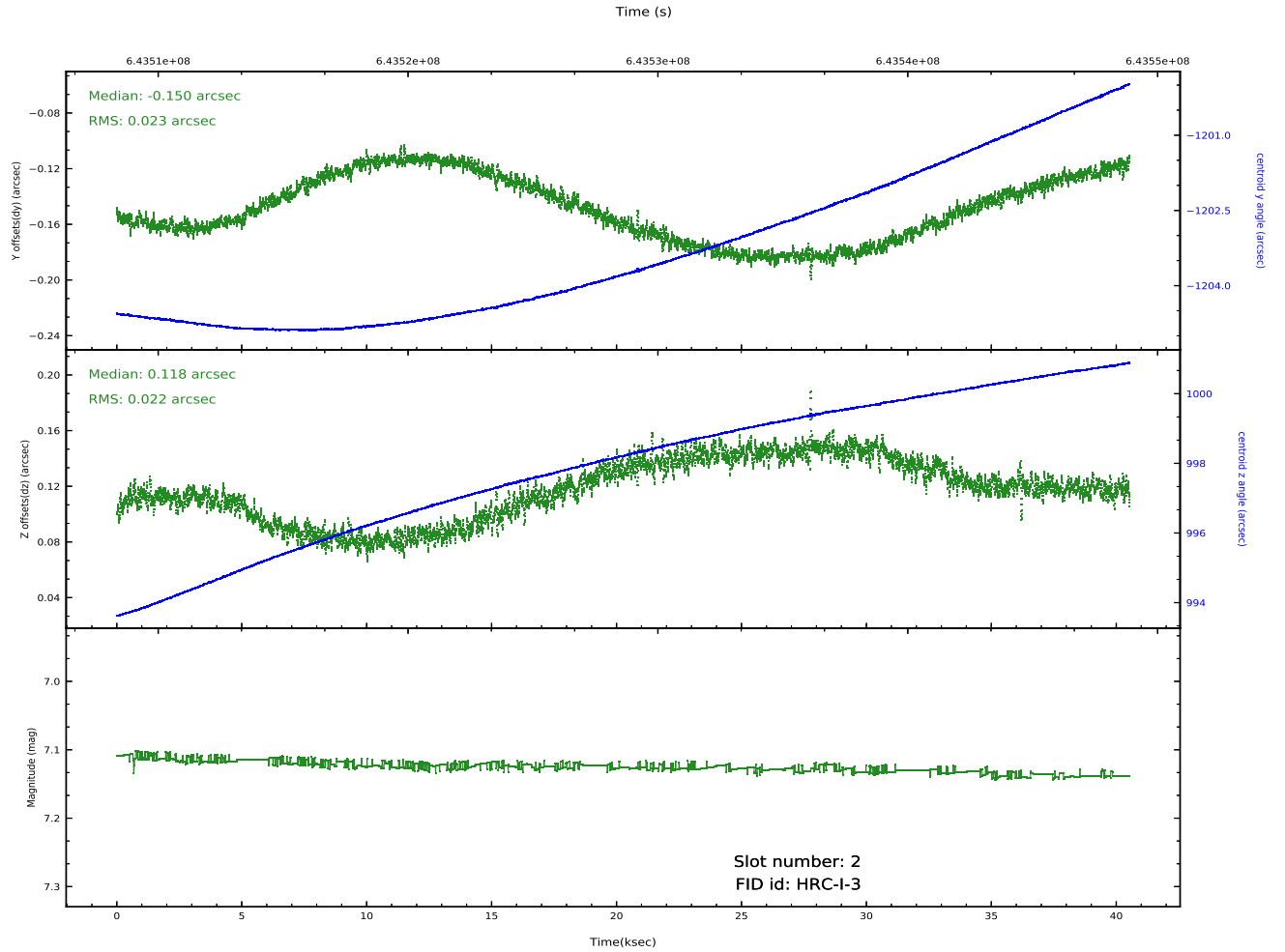
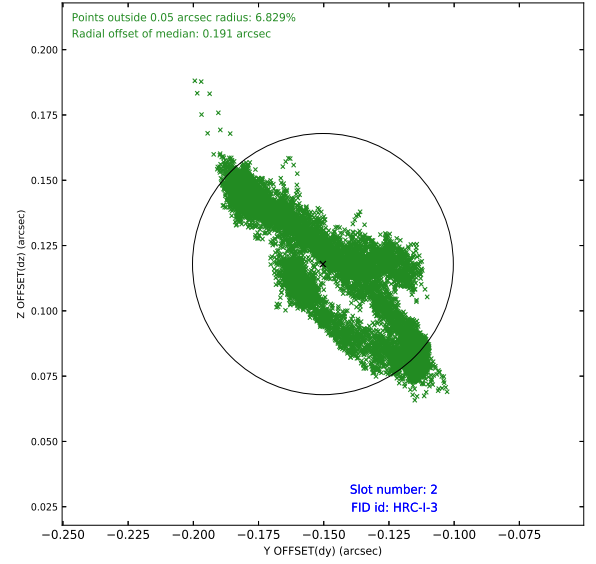
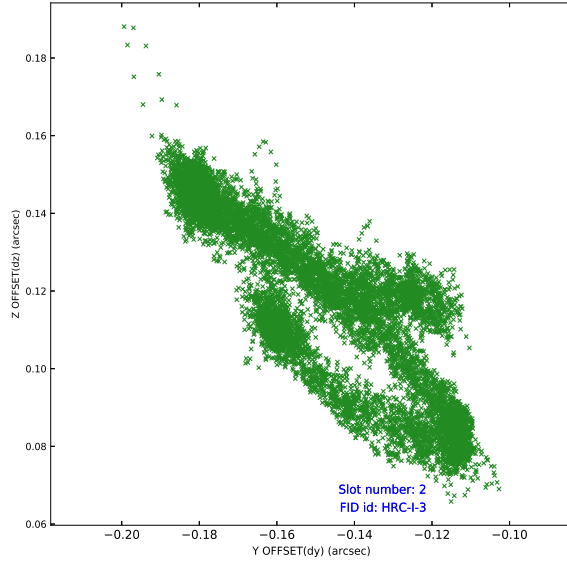
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.462133643031

A.2 Comments

Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.

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Slot 5 is lost at the end of the observation, but this does not appear to cause a significant discontinuity in the aspect solution.

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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.