

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5977 - L2 Version 4
Chandra X-Ray Center

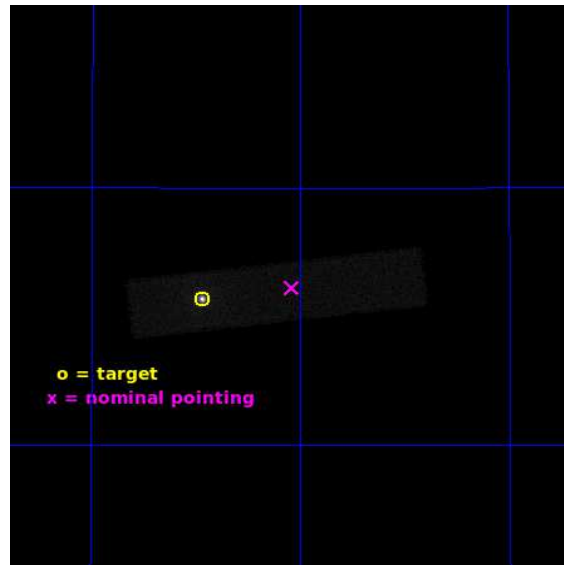
L2 Processing Date : Oct 8 2020

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1 Front

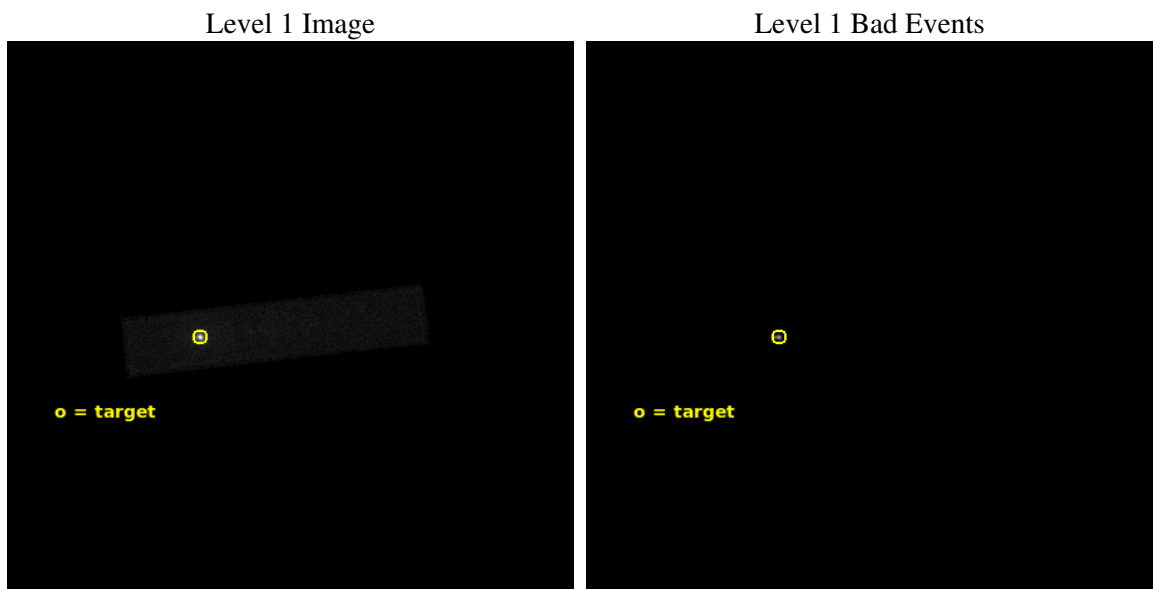
seq_num	290469	Sequence number
obs_id	5977	Observation id
title	AO6 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.01977552805	Nominal RA [deg]
dec_nom	38.806481859803	Nominal Dec [deg]
roll_nom	173.2108089586	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2155.8313485086	[s]
livetime	1772.4090024375	Ontime multiplied by DTCOR
l2events	376286	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2155.8313485086	[s]
caldsver	4.9.2	 	l1events	451962	Number of level 1 events
date	2020-10-09T00:41:40	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

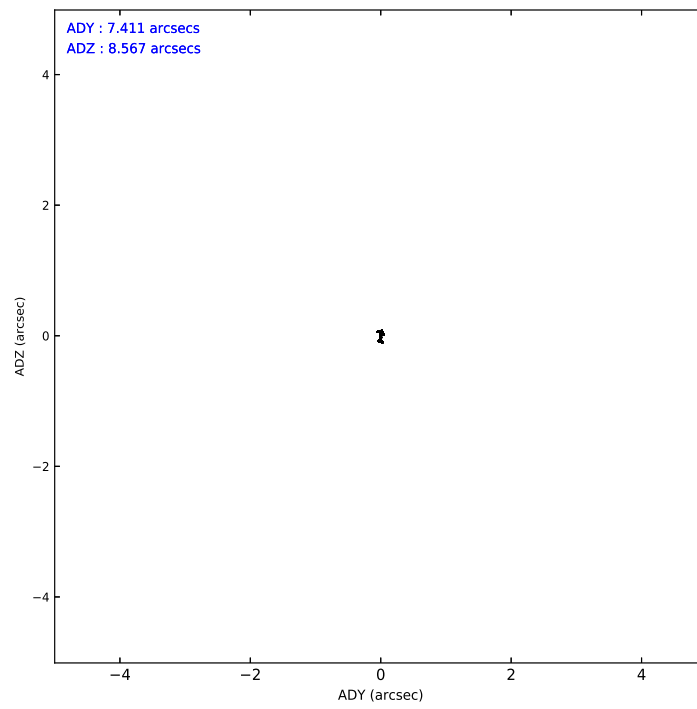
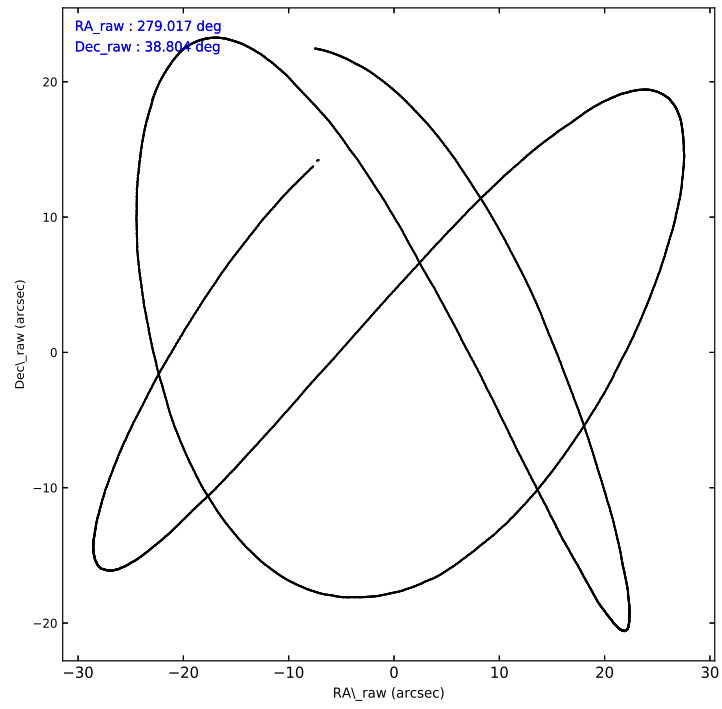
	segment 1	segment 2	segment 3
level 1 events	4975	445906	1081
rejected events	4948	48397	1081
rejected %	99%	10%	100%

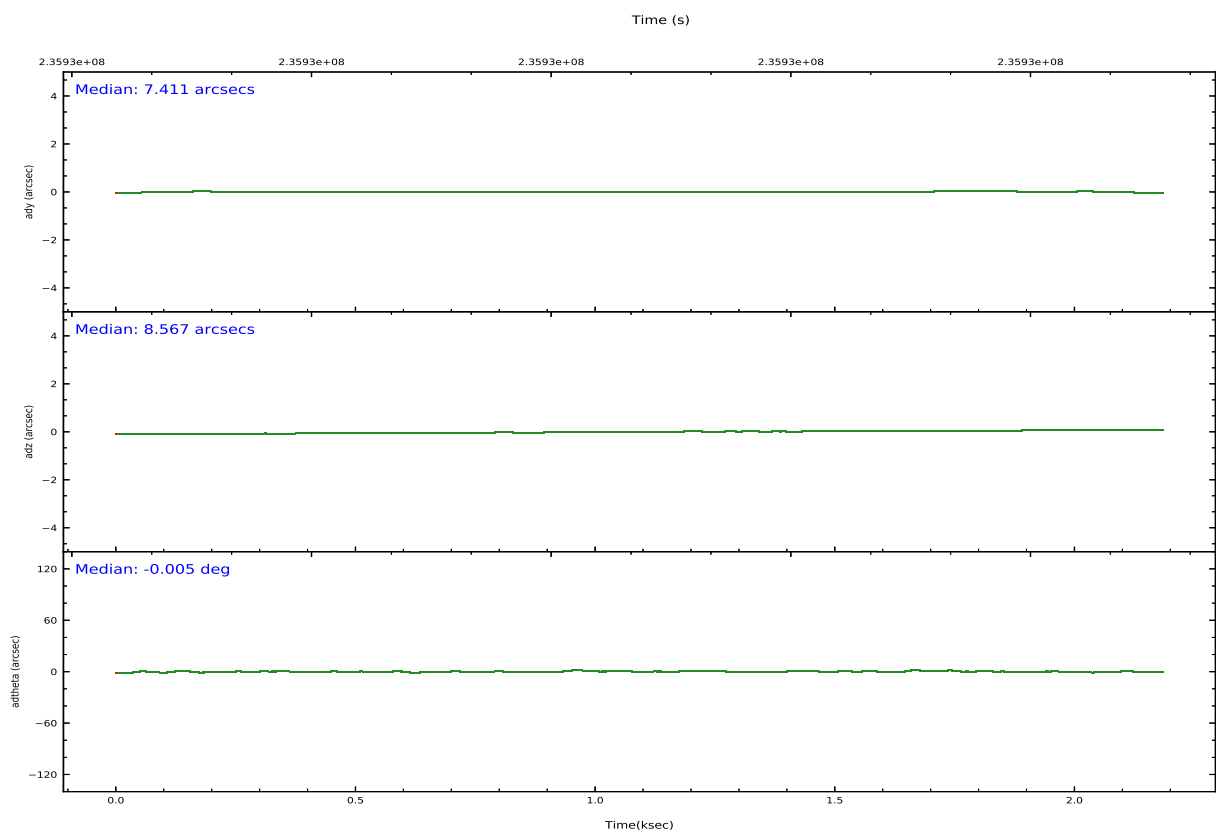
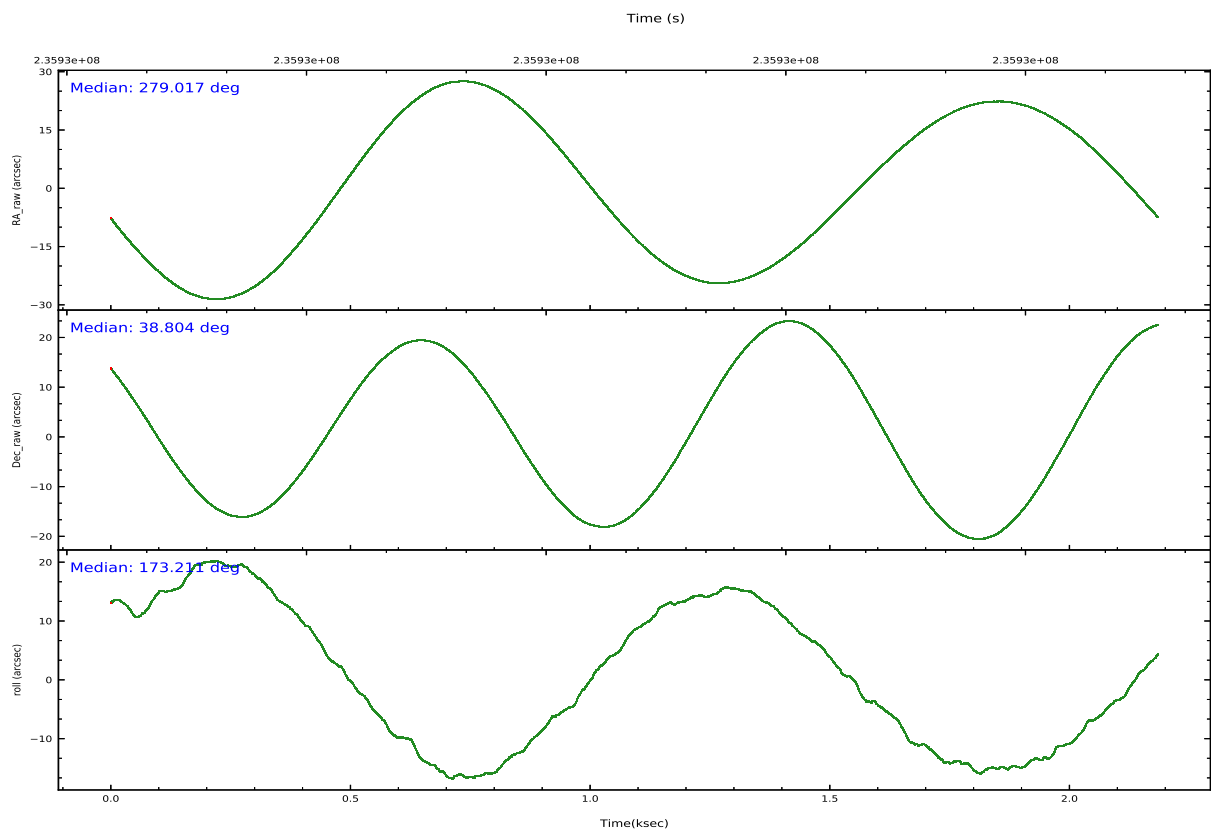
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	279.049757	279.01977552805
[deg] Pointing Dec	38.817118	38.806481859803
[deg] Pointing Roll	173.125371	173.2108089586
[s] Window start time (MET)	231292864.184000	231292864.184000
[s] Window stop time (MET)	236476864.184000	236476864.184000
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	235931777.184000	235931400.91809
Observation start date	2005-06-23T16:35:13	2005-06-23T16:30:00
[s] Observation end time (MET)	235933777.184000	235933910.6307
Observation end date	2005-06-23T17:08:33	2005-06-23T17:11:50

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

2.3 Aspect



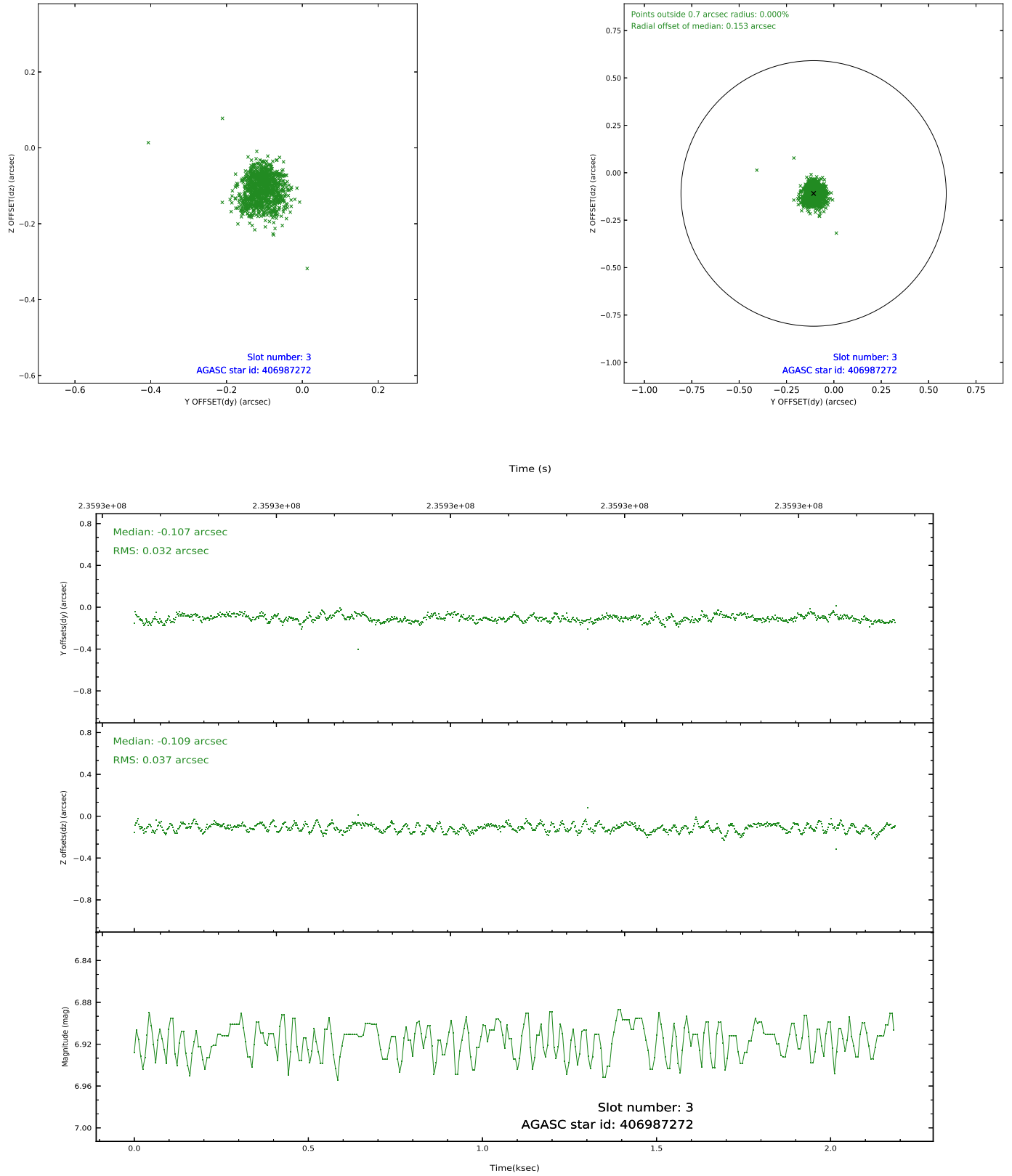


Slot Statistics

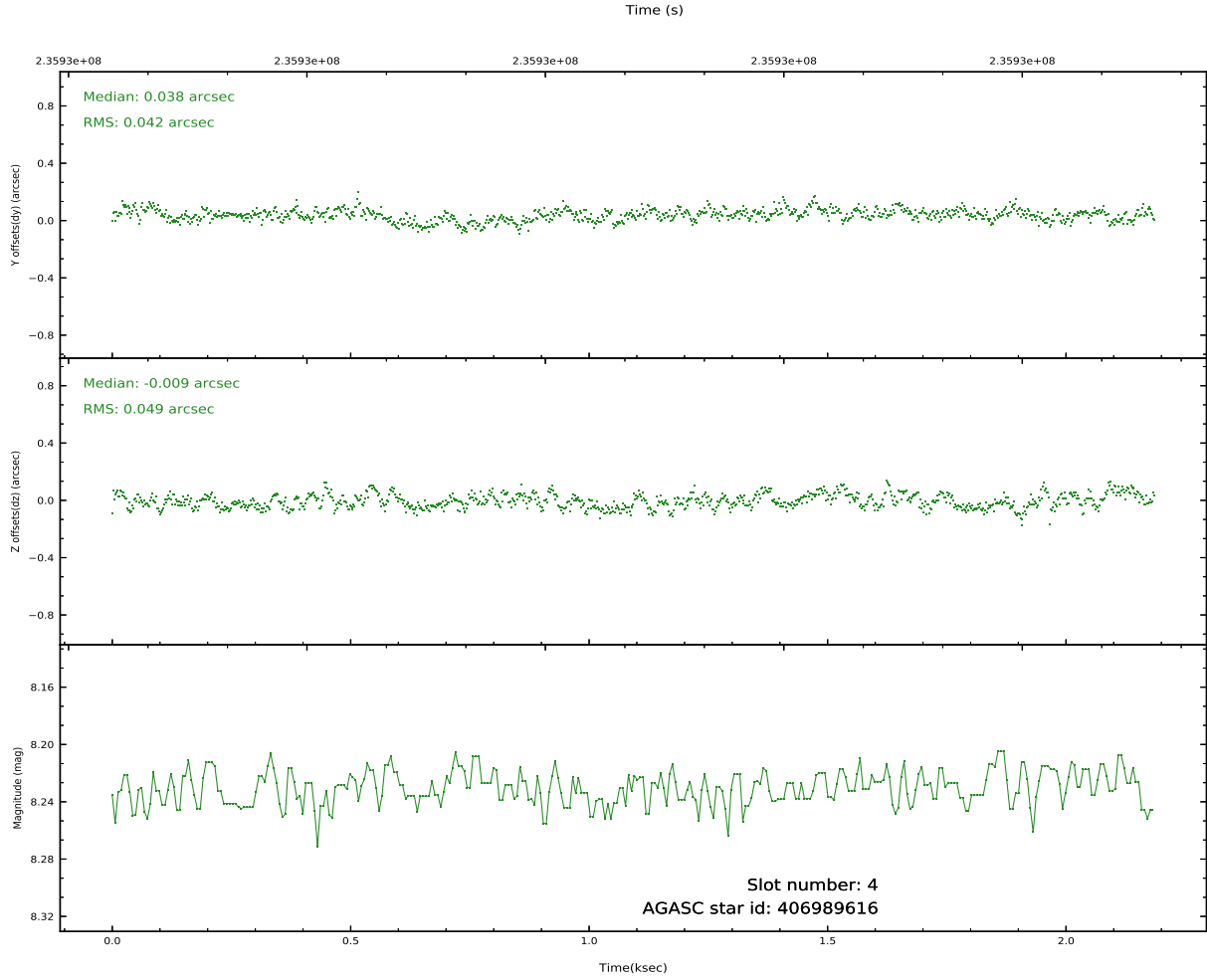
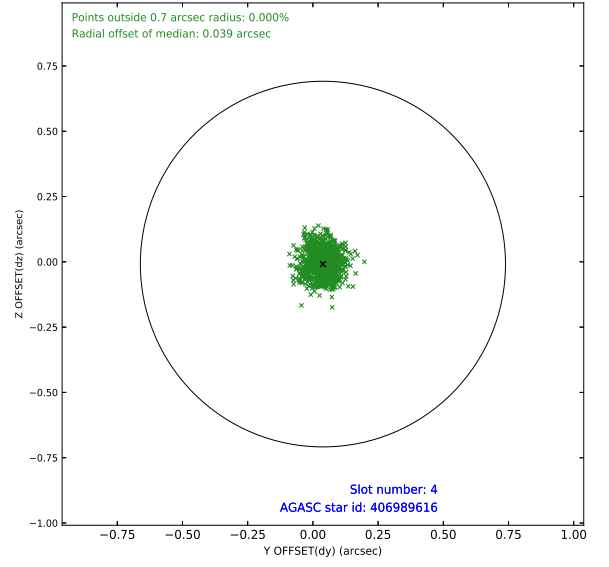
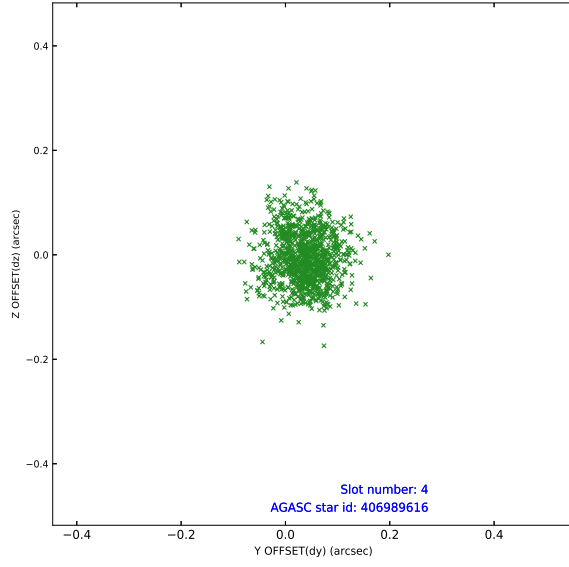
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	534	1.000	0.102	-0.155	0.008	0.014	0.000000	0.000000	-1161.59	-457
1	FID		HRC-S-2	7.03	534	1.000	0.205	-0.120	0.005	0.010	0.000000	0.000000	1236.02	-450
2	FID		HRC-S-3	7.05	534	1.000	0.083	-0.026	0.008	0.014	0.000000	0.000000	-1162.04	571
3	GUIDE	used	406987272	6.91	1067	1.000	-0.107	-0.109	0.051	0.079	278.536588	38.437504	1273.66	1524
4	GUIDE	used	406989616	8.23	1067	1.000	0.038	-0.009	0.070	0.111	279.202881	38.520843	-554.48	1007
5	GUIDE	used	407521232	8.64	1067	1.000	-0.002	0.024	0.108	0.169	279.628883	39.431715	-1333.41	-2394
6	GUIDE	used	406979352	9.25	1066	1.000	0.041	0.062	0.086	0.143	279.968297	39.230258	-2364.54	-1798
7	GUIDE	used	407510432	8.15	1066	1.000	0.028	0.037	0.079	0.140	278.762778	39.530640	1097.10	-2458

2.4 Star Slots

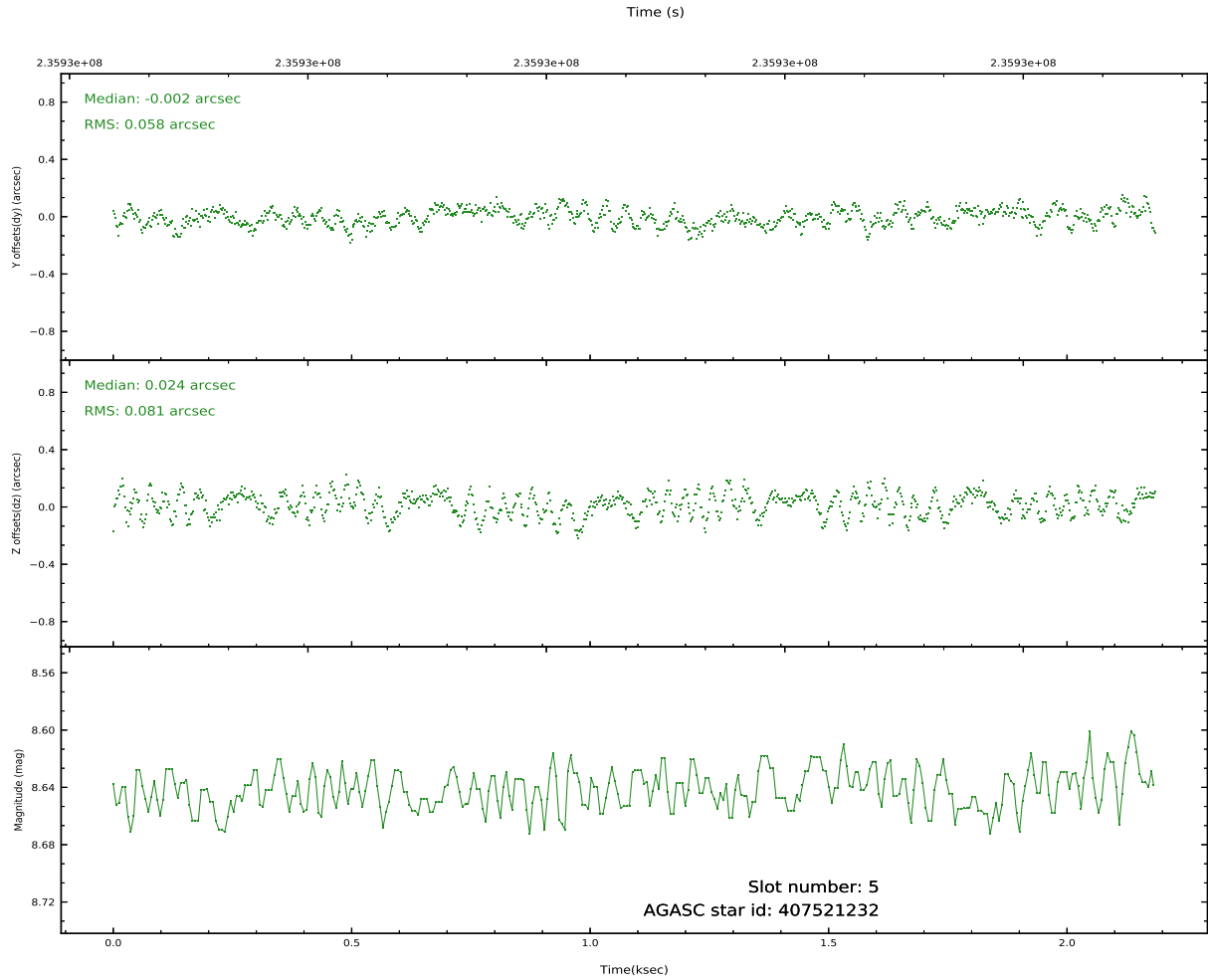
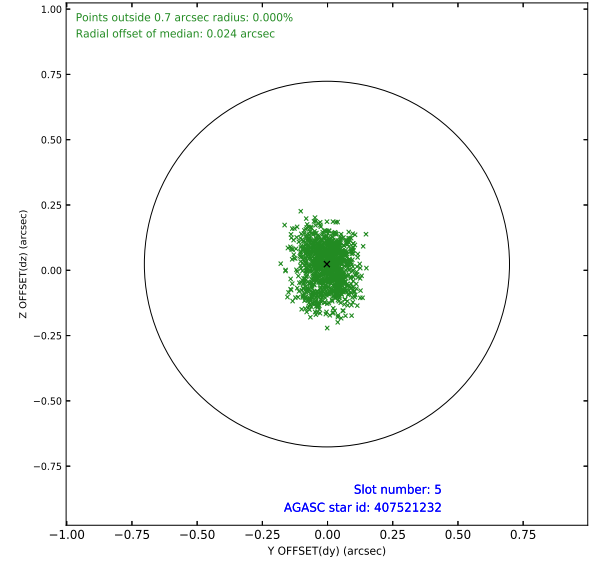
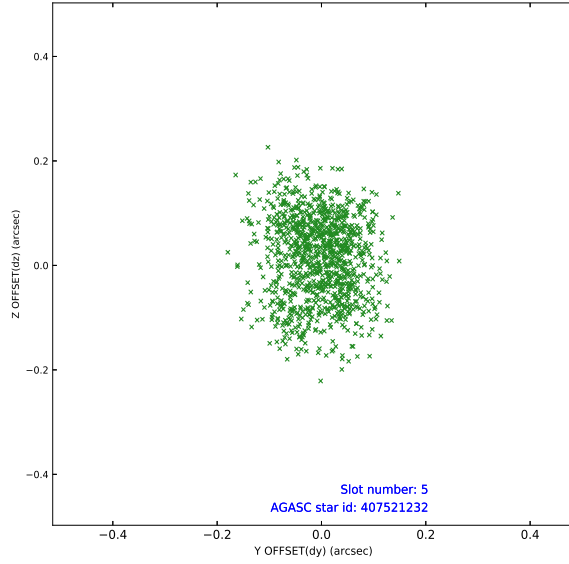
2.4.1 Slot 3



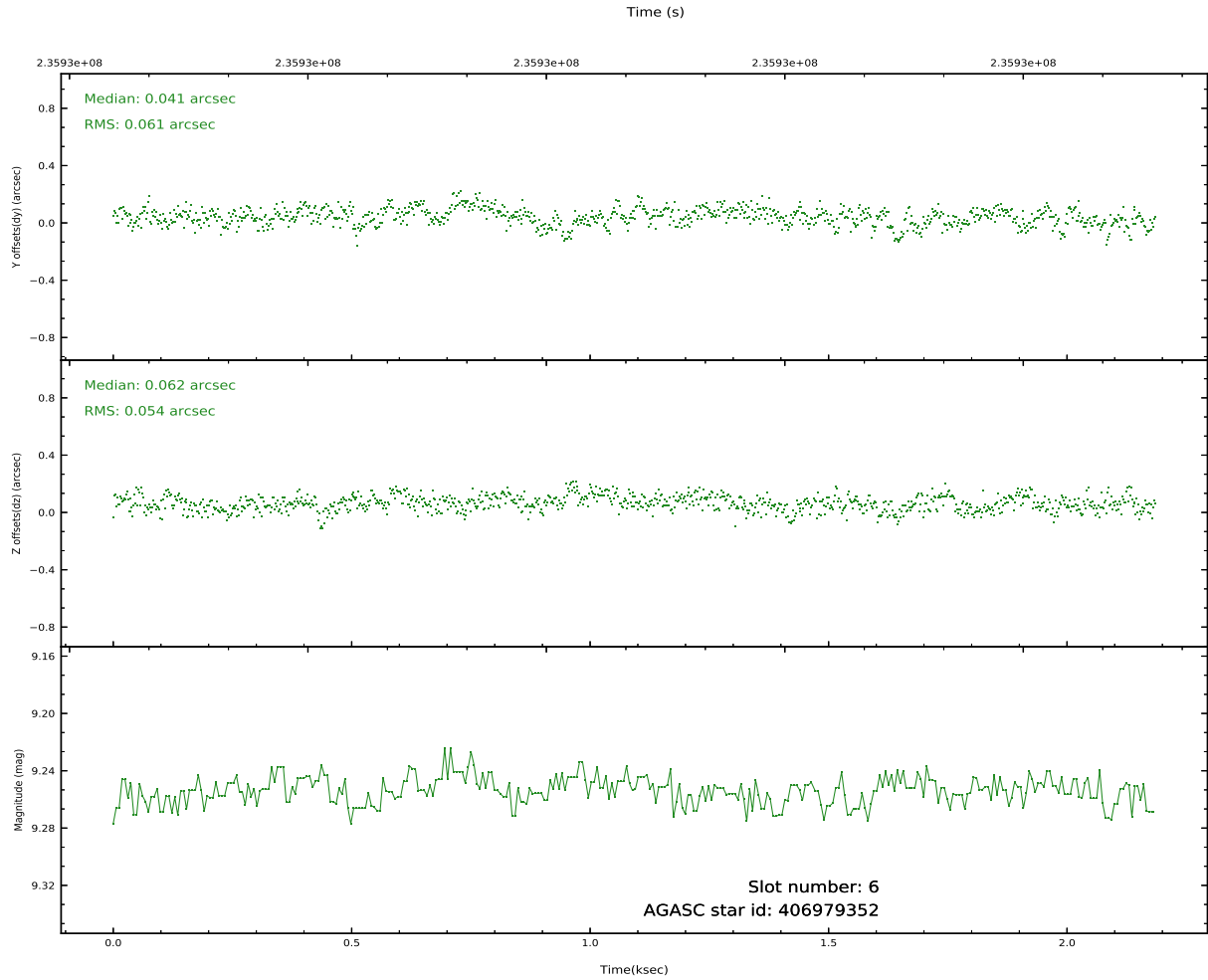
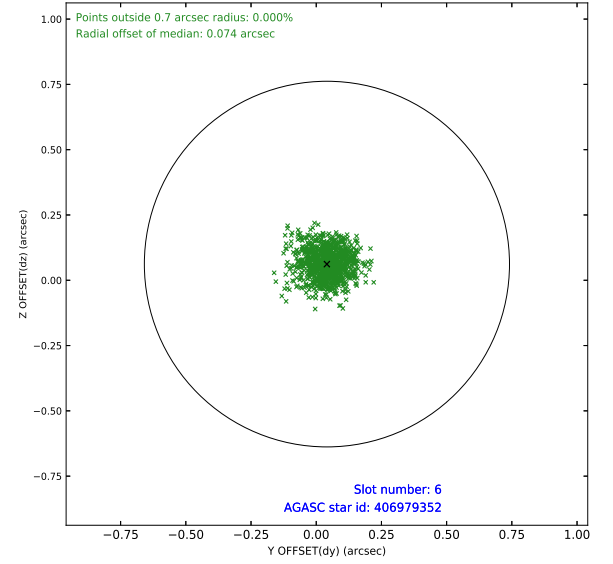
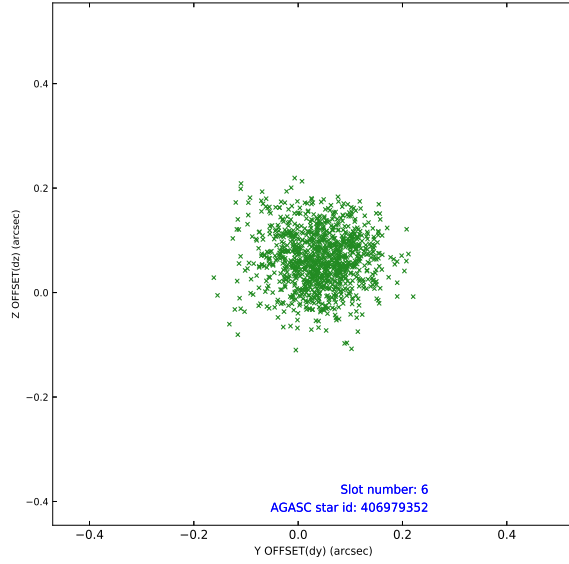
2.4.2 Slot 4



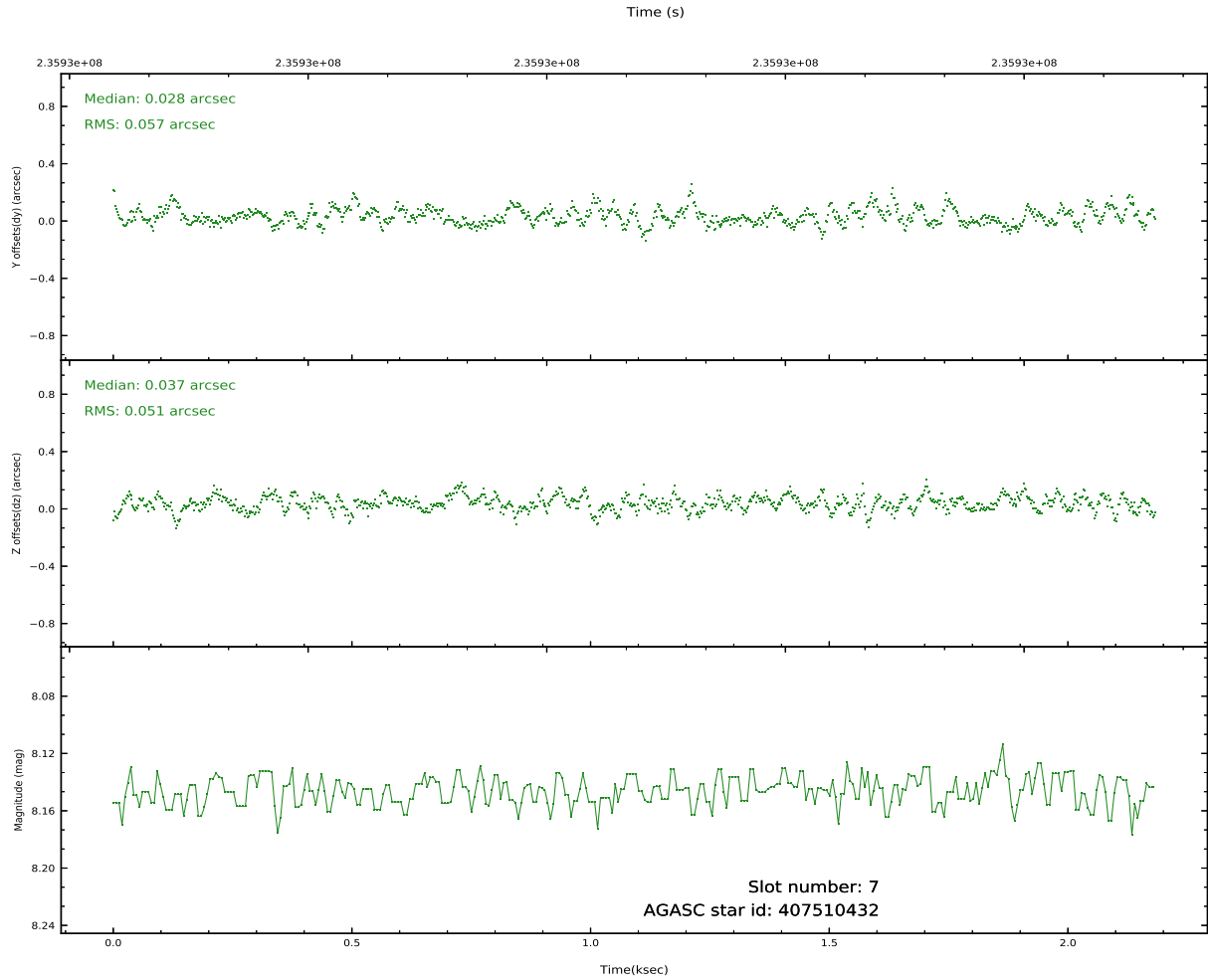
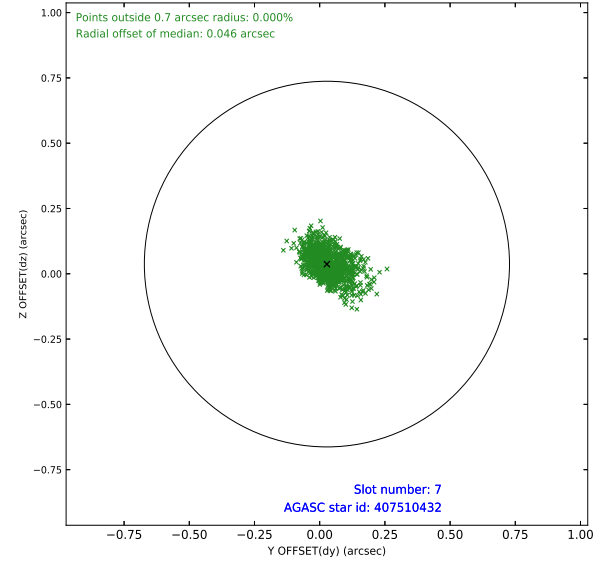
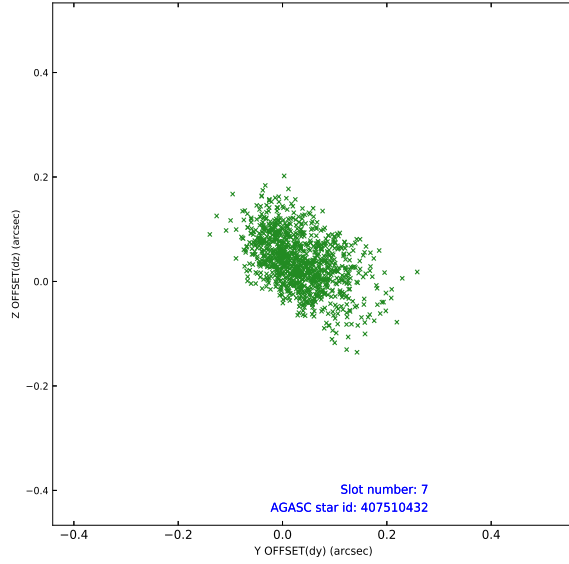
2.4.3 Slot 5



2.4.4 Slot 6

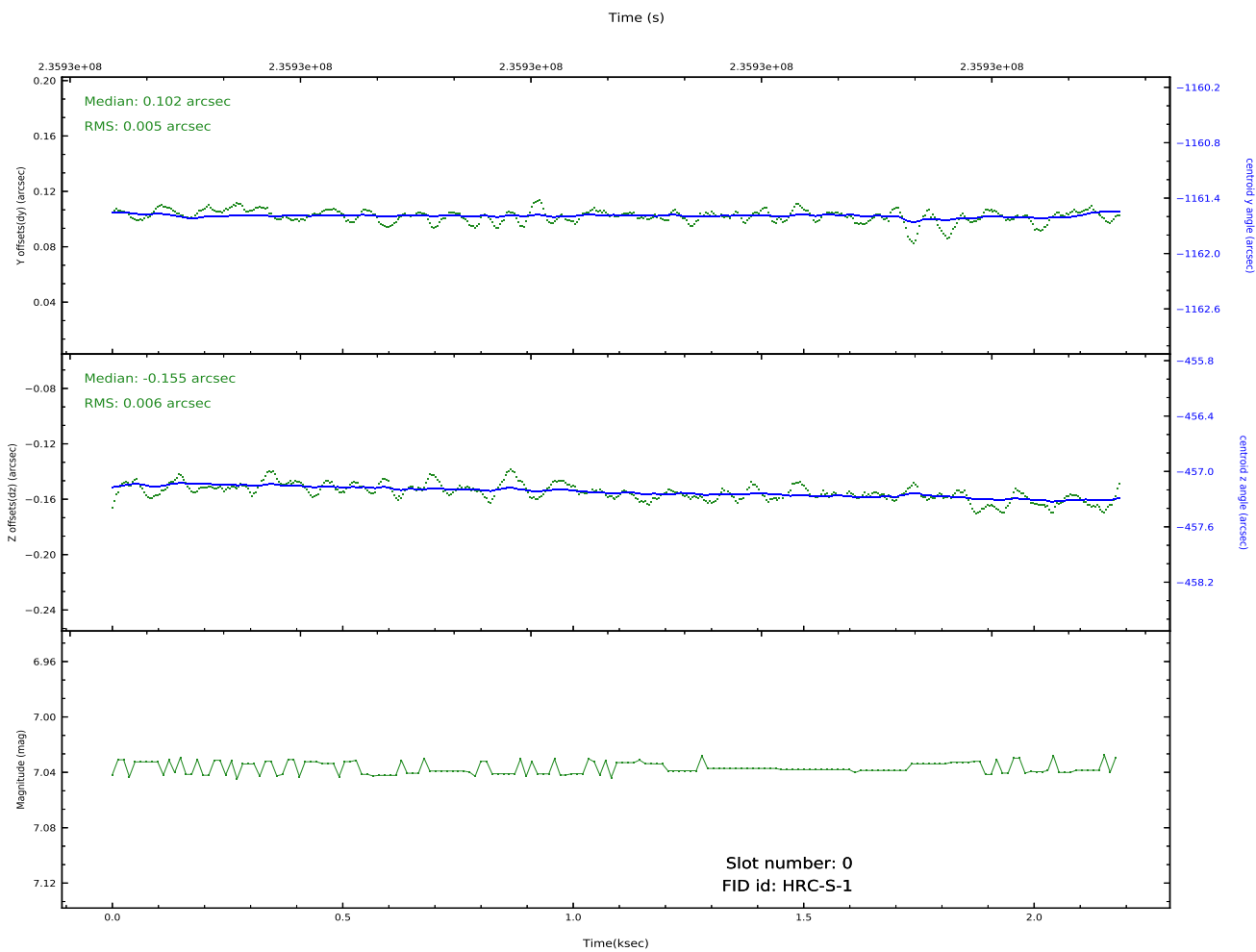
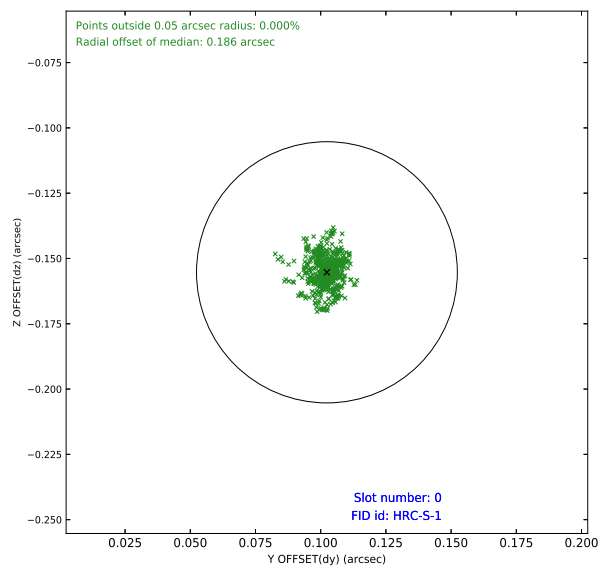
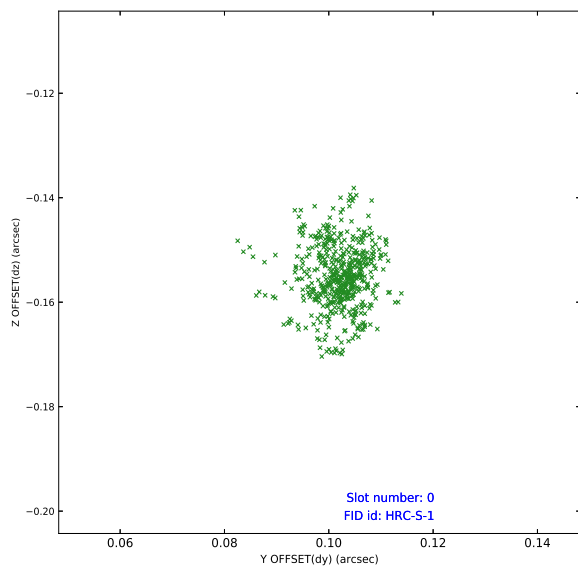


2.4.5 Slot 7

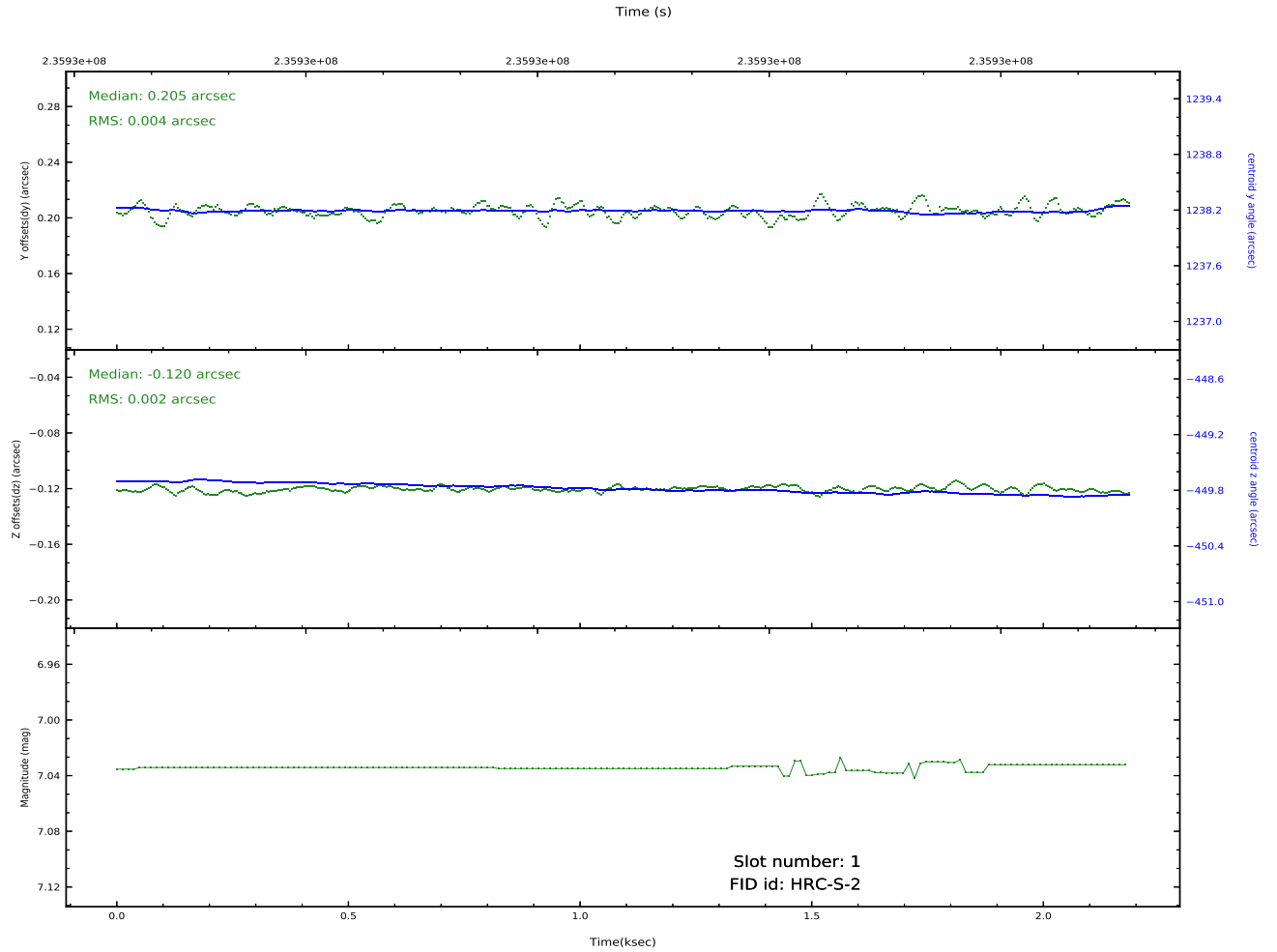
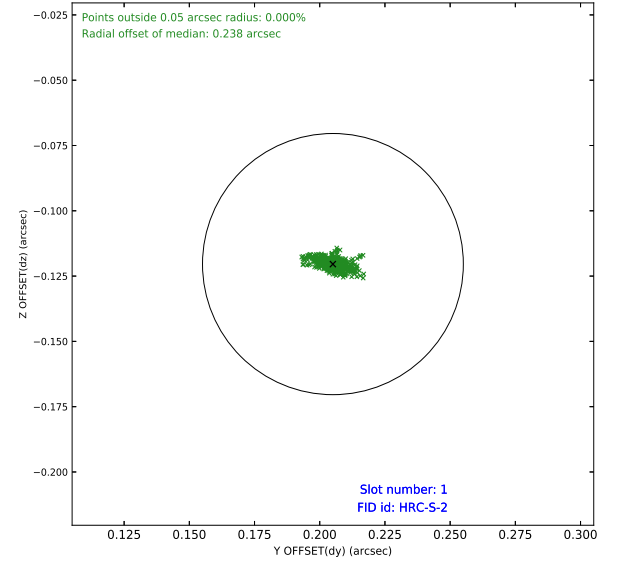
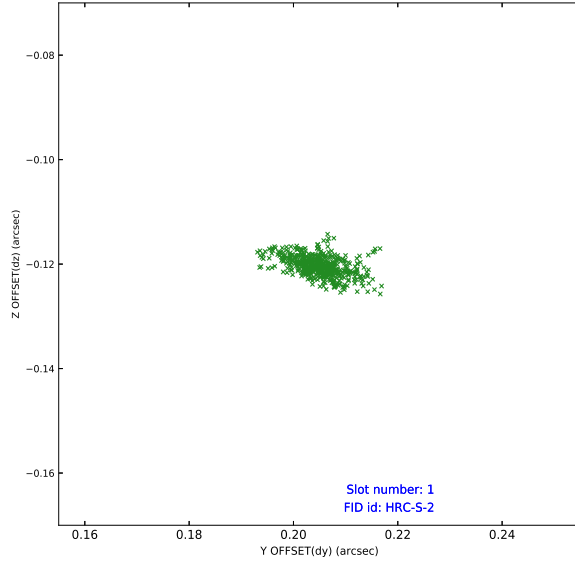


2.5 FID Slots

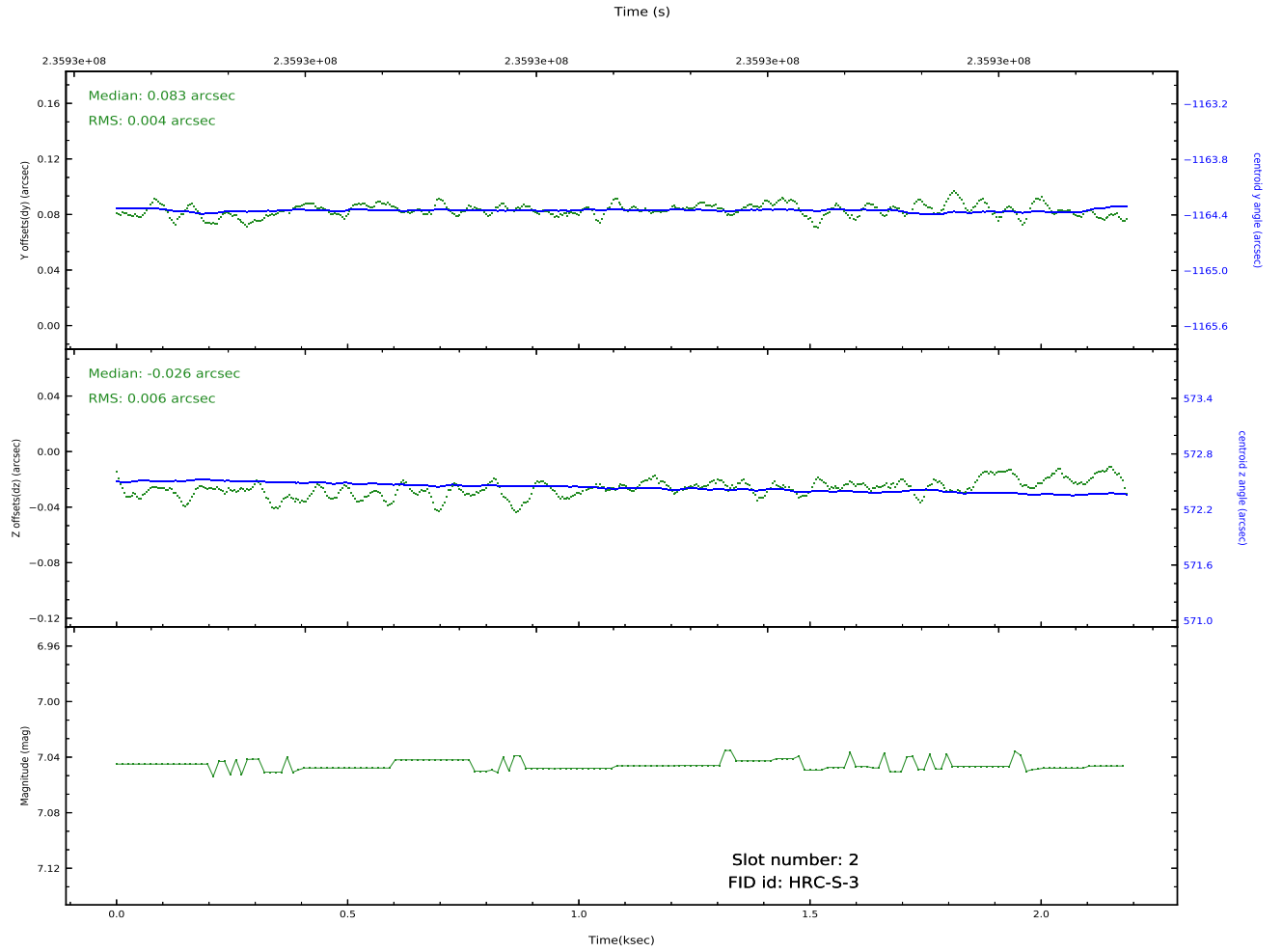
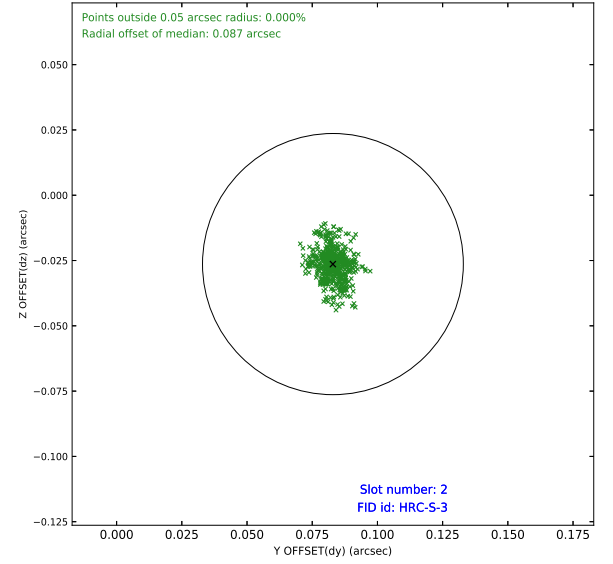
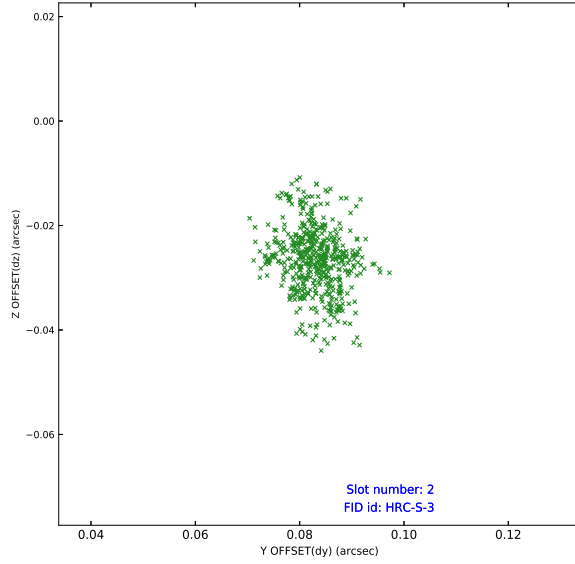
2.5.1 Slot 0



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.155831

A.2 Comments

Window constraint met.

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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.