

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20687 - L2 Version 2
Chandra X-Ray Center

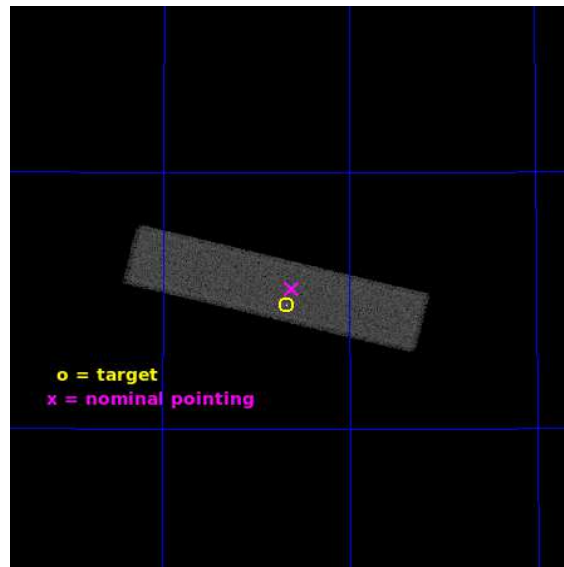
L2 Processing Date : Oct 27 2020

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1 Front

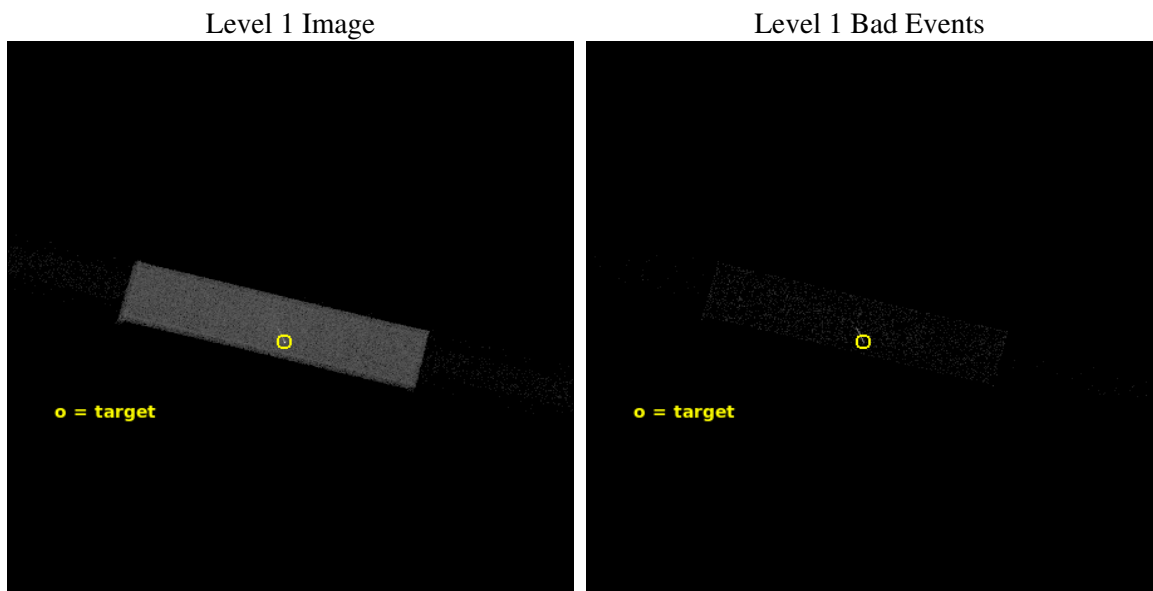
seq_num	291398	Sequence number
obs_id	20687	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1542967067	Nominal RA [deg]
dec_nom	45.773711522184	Nominal Dec [deg]
roll_nom	193.96155800384	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1173.8813197613	[s]
livetime	1163.8207171526	Ontime multiplied by DTCOR
l2events	77530	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	1173.8813197613	[s]
caldbver	4.9.3	 	l1events	116389	Number of level 1 events
date	2020-10-27T16:22:50	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

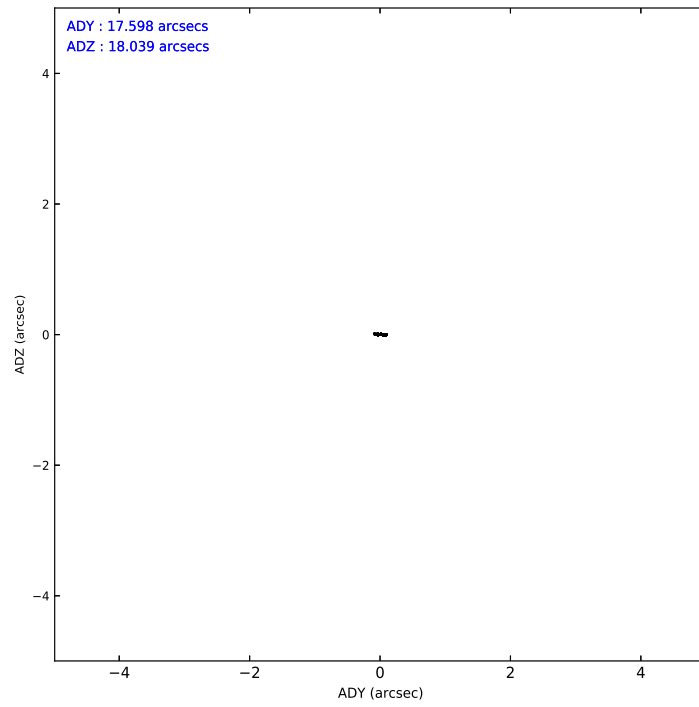
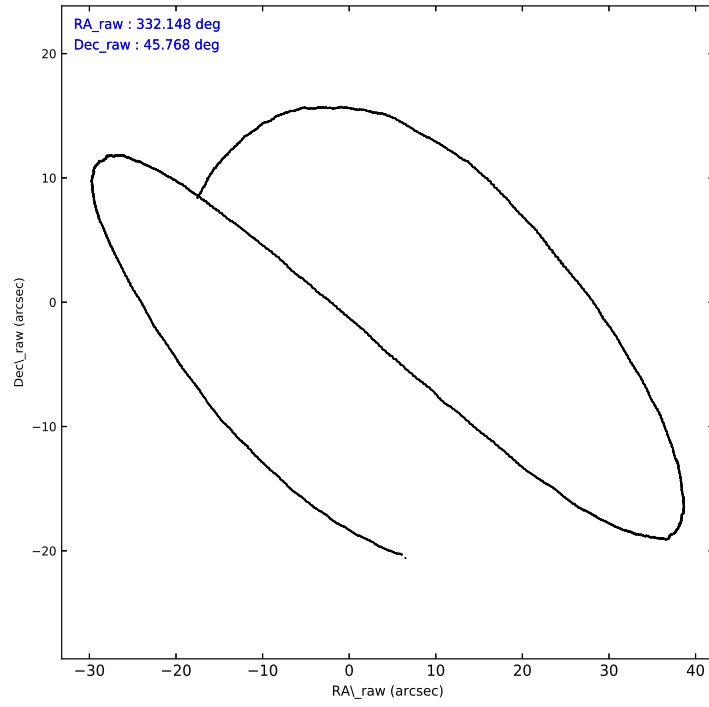
	segment 1	segment 2	segment 3
level 1 events	990	114476	923
rejected events	990	24362	923
rejected %	100%	21%	100%

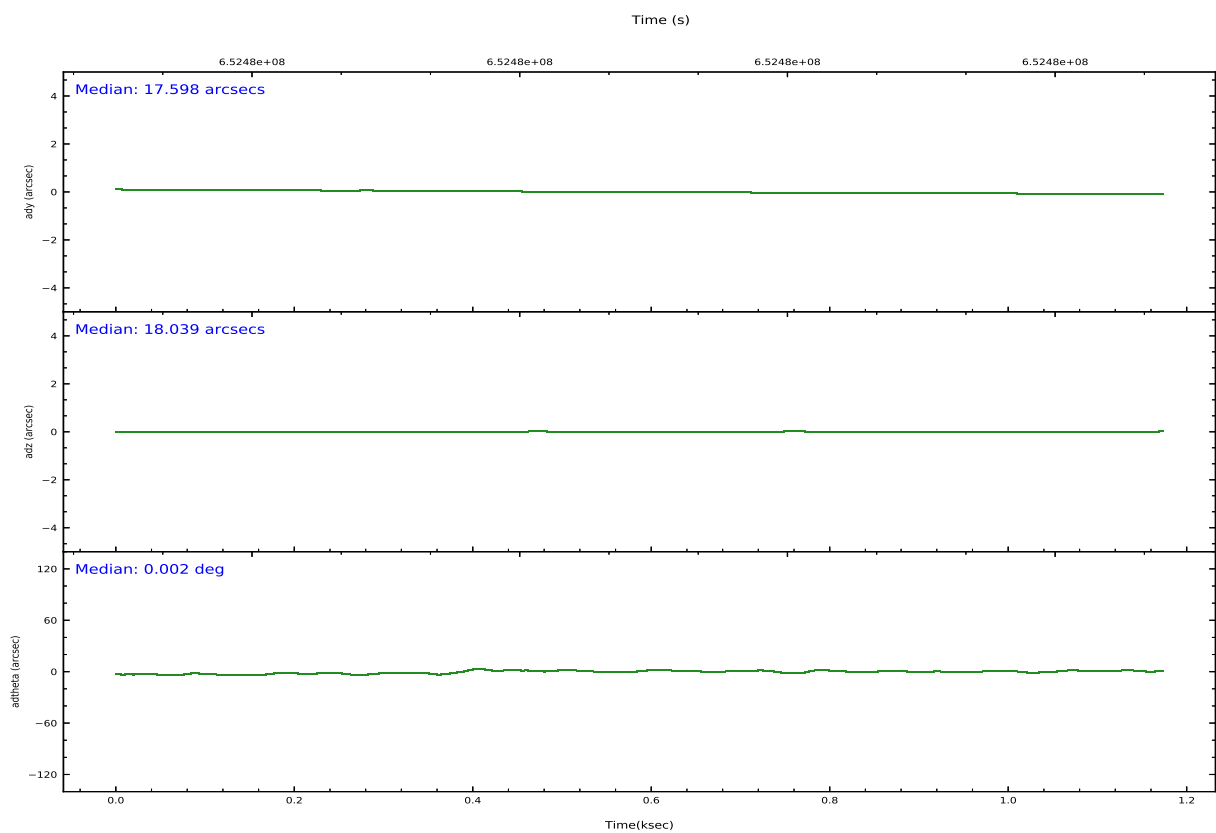
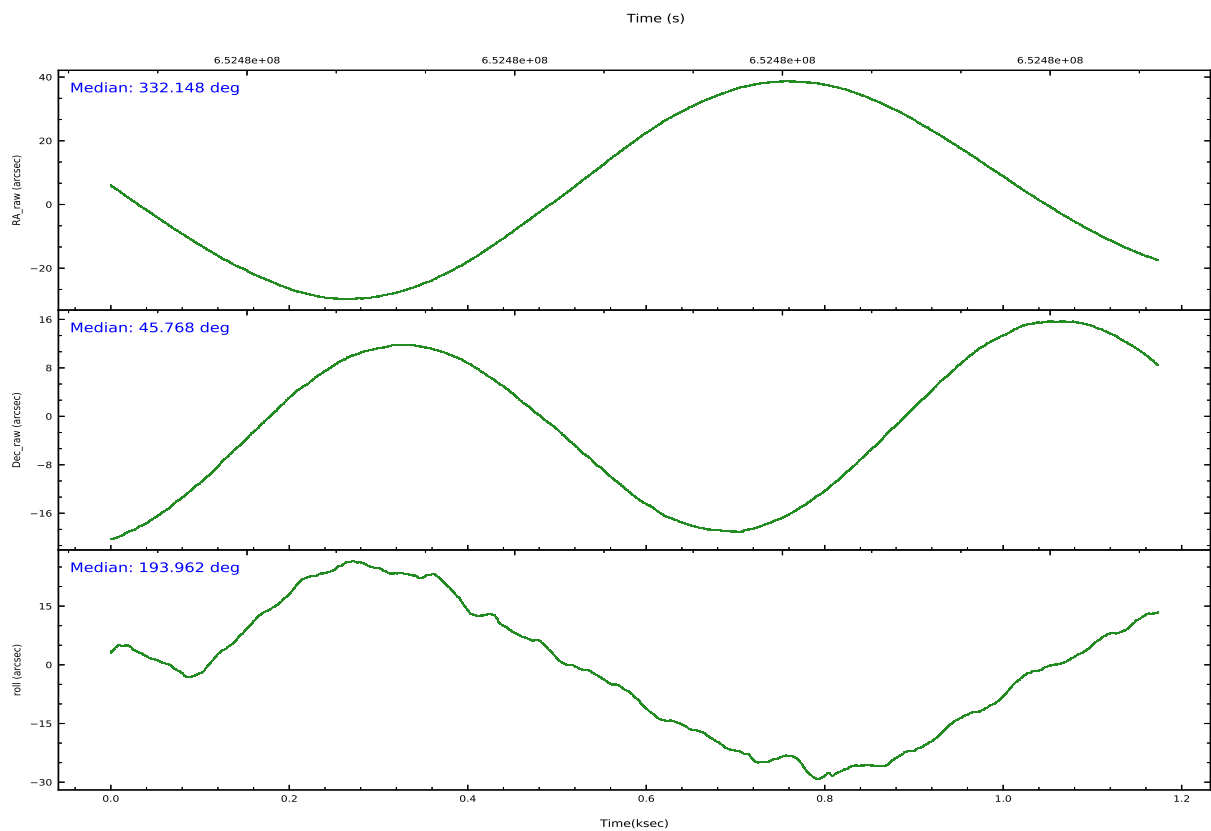
2.2 Compared Parameters

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	332.177810	332.1542967067
[deg] Pointing Dec	45.787870	45.773711522184
[deg] Pointing Roll	193.882139	193.96155800384
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	652482421.184000	652482045.06233
Observation start date	2018-09-04T21:05:52	2018-09-04T21:00:45
[s] Observation end time (MET)	652483421.184000	652483554.8874201
Observation end date	2018-09-04T21:22:32	2018-09-04T21:25:54

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

2.3 Aspect



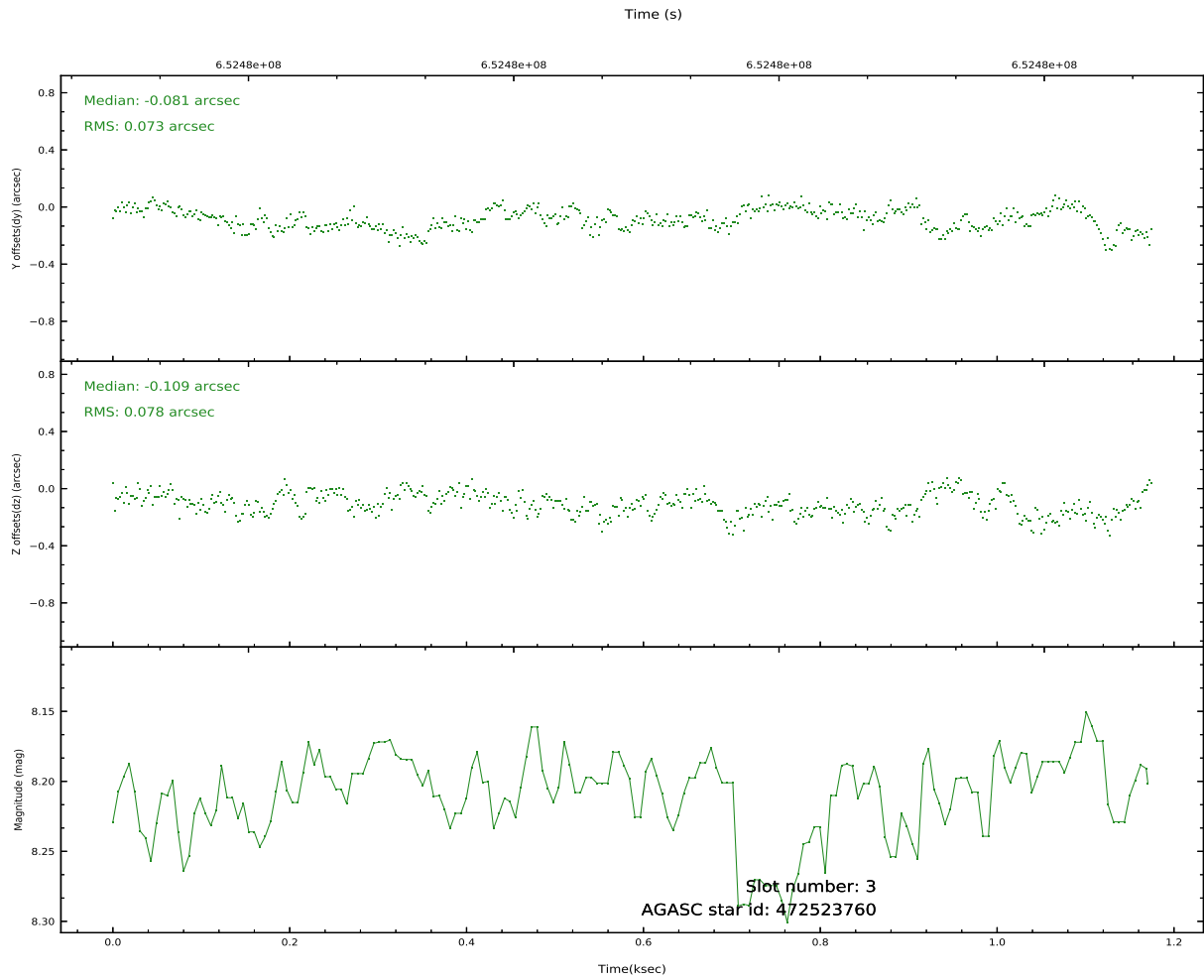
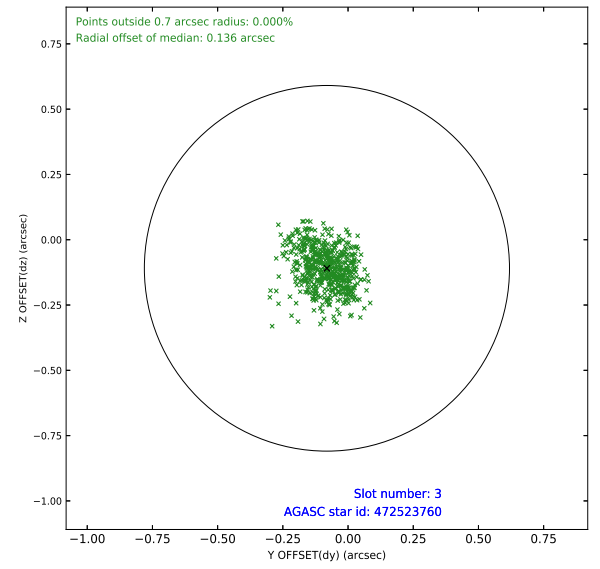
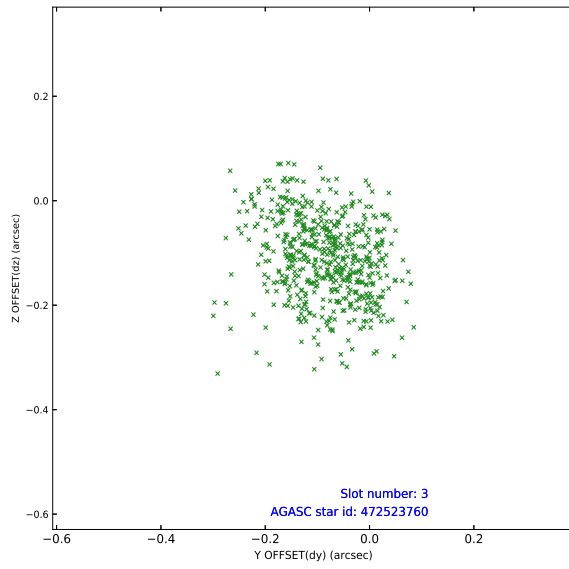


Slot Statistics

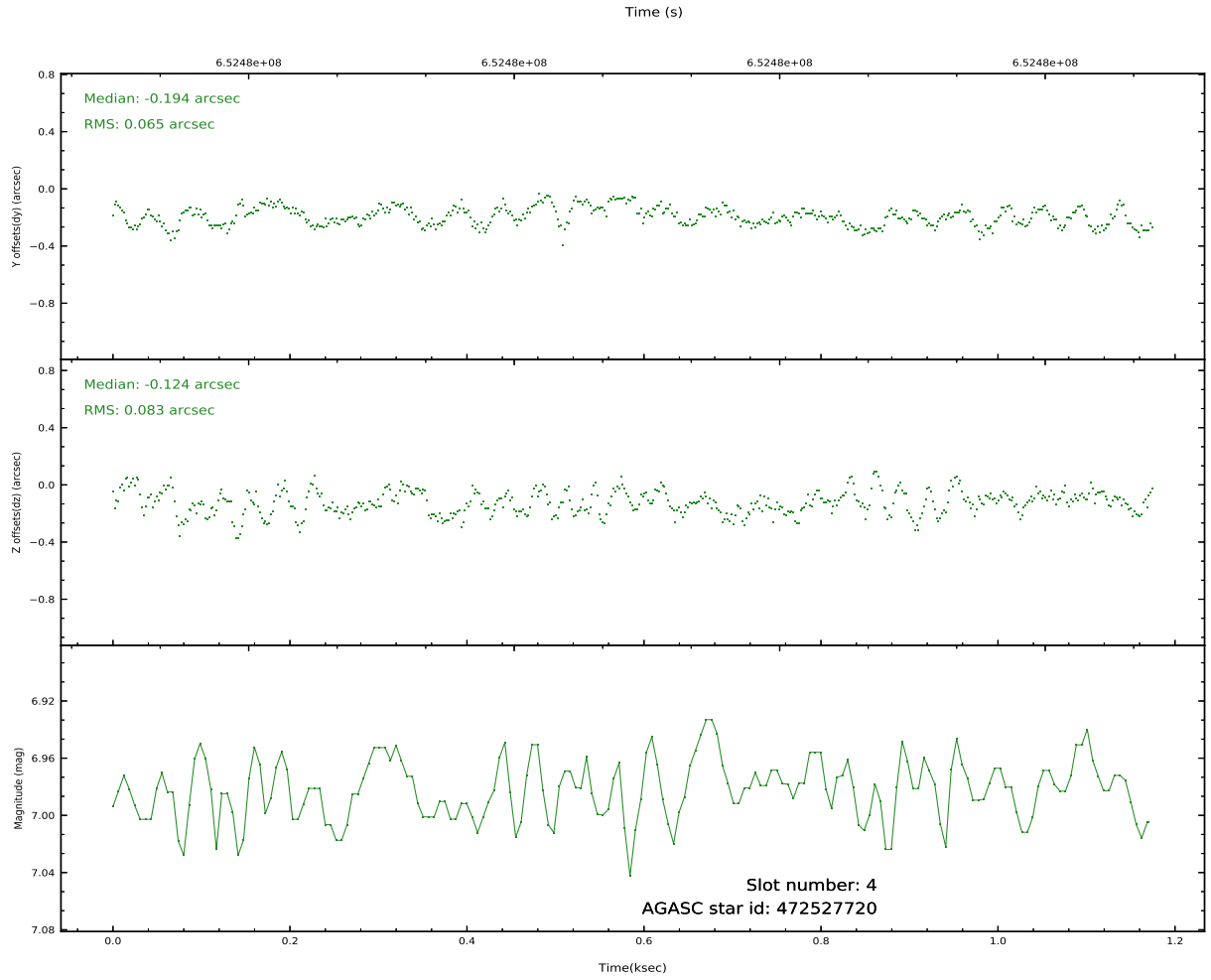
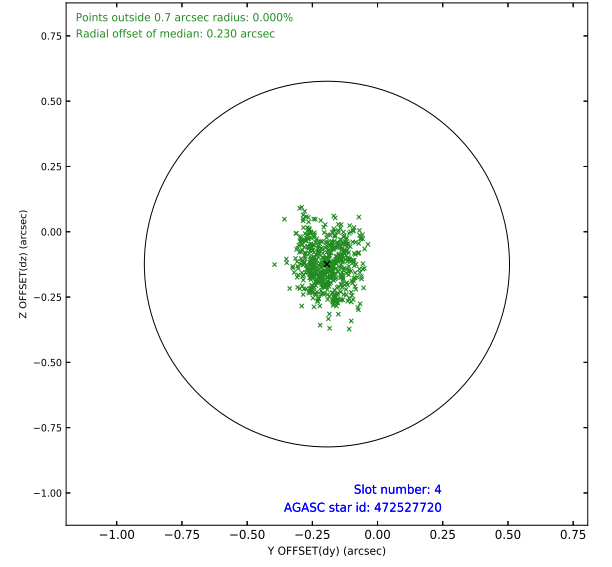
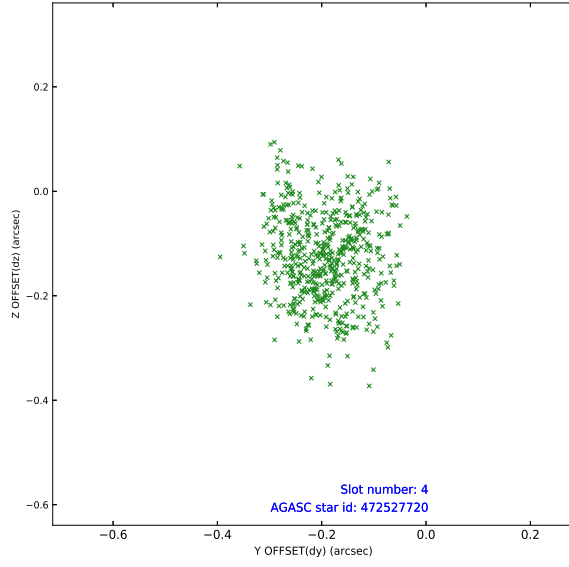
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.02	287	1.000	0.025	-0.124	0.005	0.009	0.000000	0.000000	-1172.16	-466
1	FID		HRC-S-2	6.99	287	1.000	0.193	-0.143	0.026	0.048	0.000000	0.000000	1223.58	-461
2	FID		HRC-S-4	6.99	287	1.000	0.184	-0.036	0.024	0.044	0.000000	0.000000	1230.60	563
3	GUIDE	used	472523760	8.20	574	1.000	-0.081	-0.109	0.114	0.187	331.645363	45.403260	1637.43	1019
4	GUIDE	used	472527720	6.98	574	1.000	-0.194	-0.124	0.115	0.176	331.460205	45.112509	2353.31	1919
5	GUIDE	used	472535576	7.83	573	1.000	-0.020	0.055	0.125	0.206	331.438373	46.291802	1352.44	-2204
6	GUIDE	used	472533912	9.12	573	1.000	0.022	-0.004	0.165	0.295	331.791136	46.368695	432.68	-2263
7	GUIDE	used	472665256	8.96	572	1.000	0.285	0.185	0.120	0.203	332.808125	46.195041	-1877.05	-1053

2.4 Star Slots

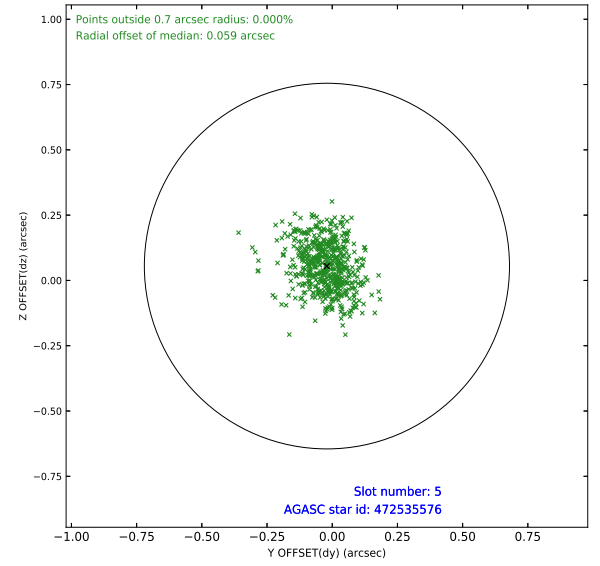
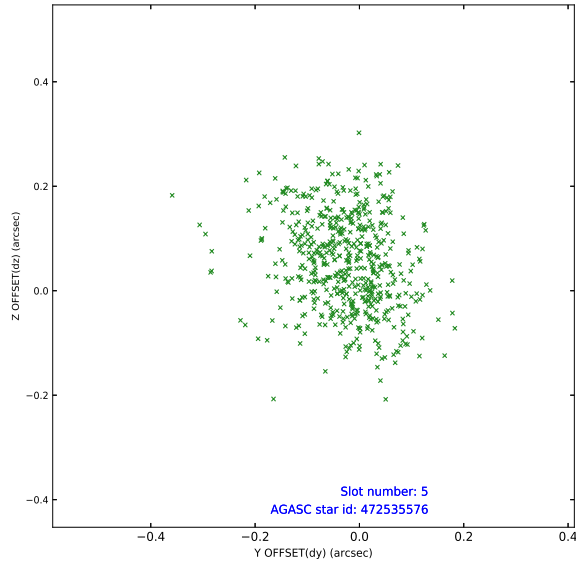
2.4.1 Slot 3



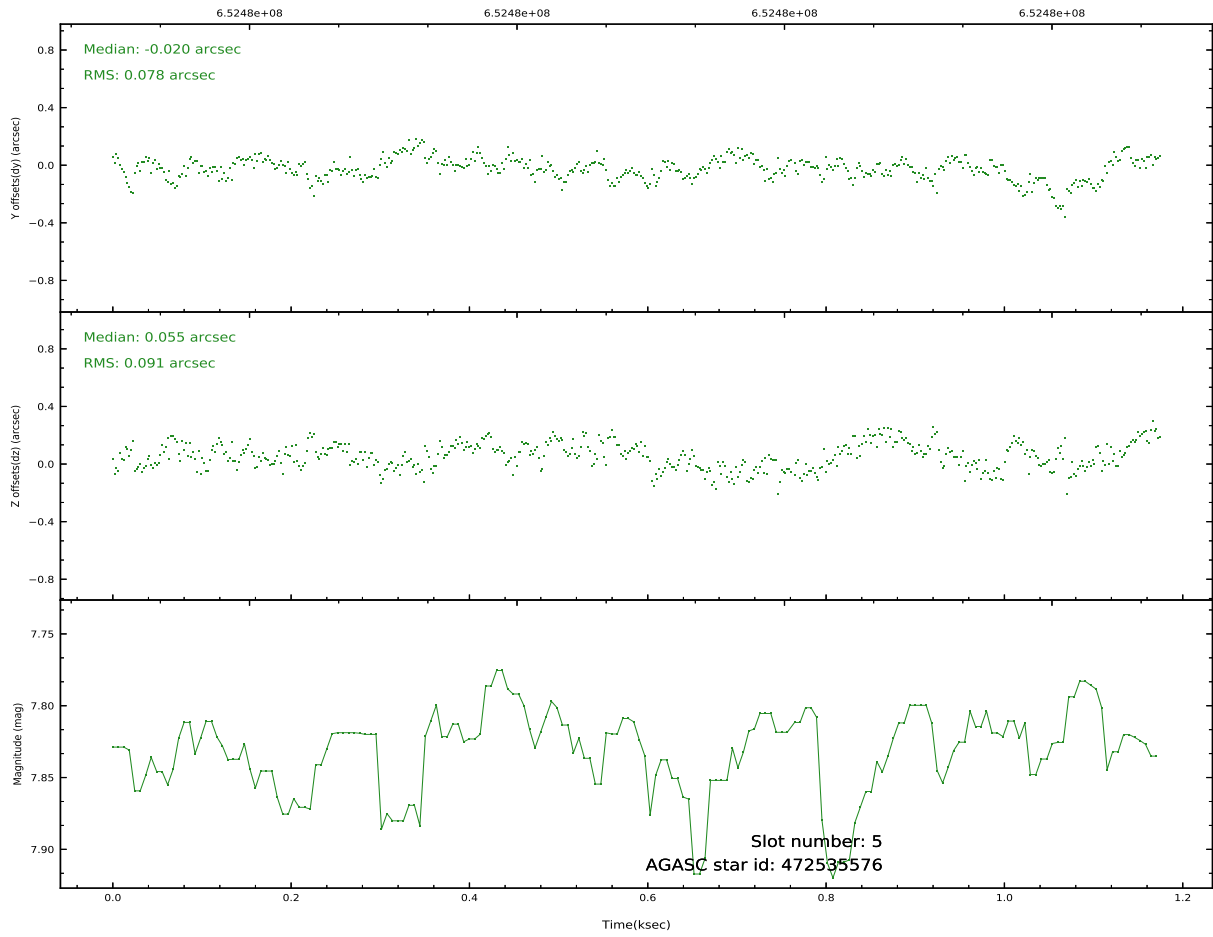
2.4.2 Slot 4



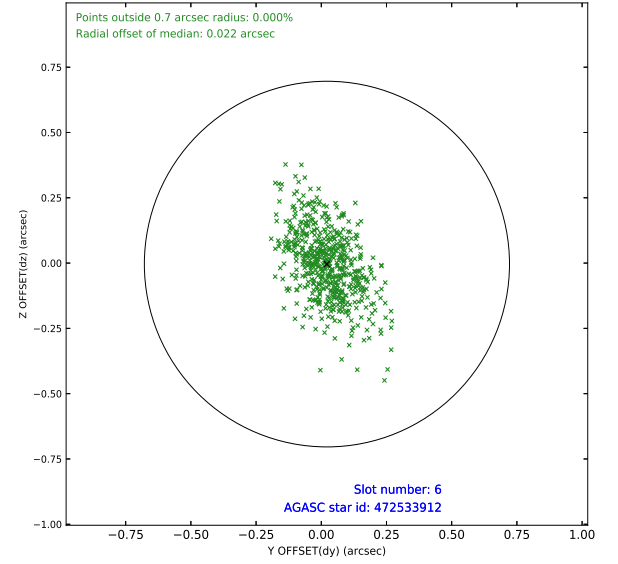
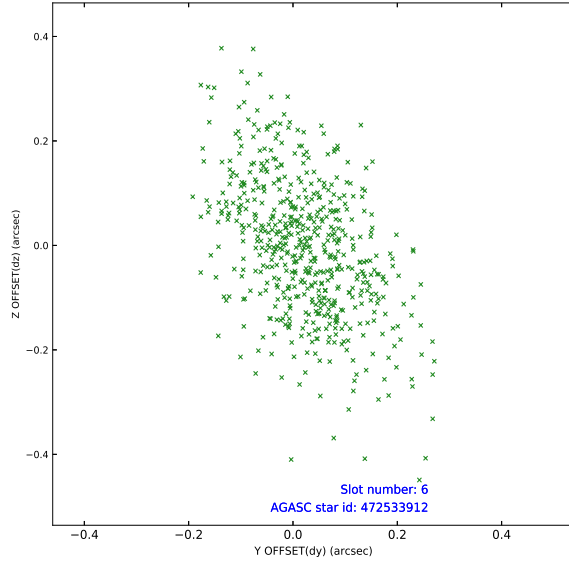
2.4.3 Slot 5



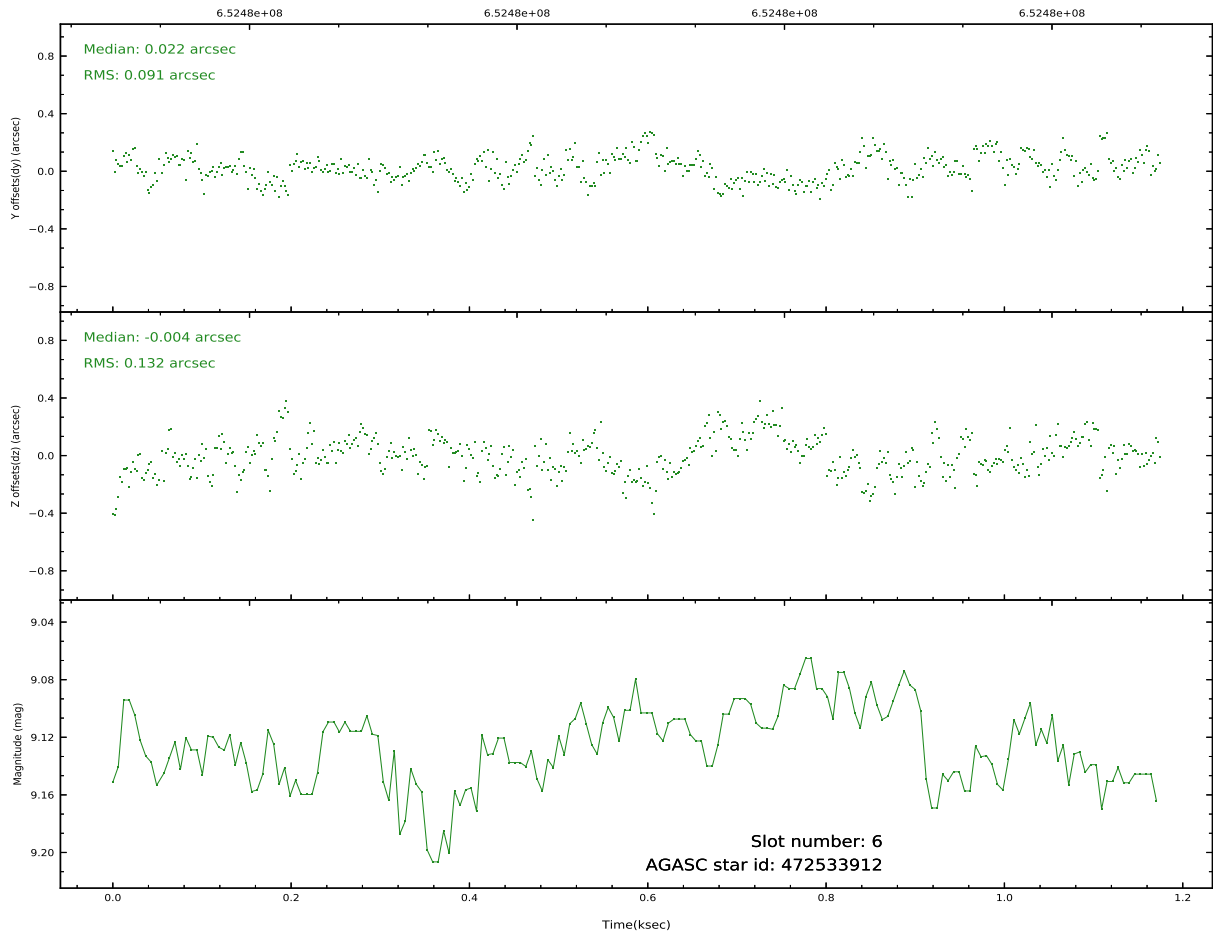
Time (s)



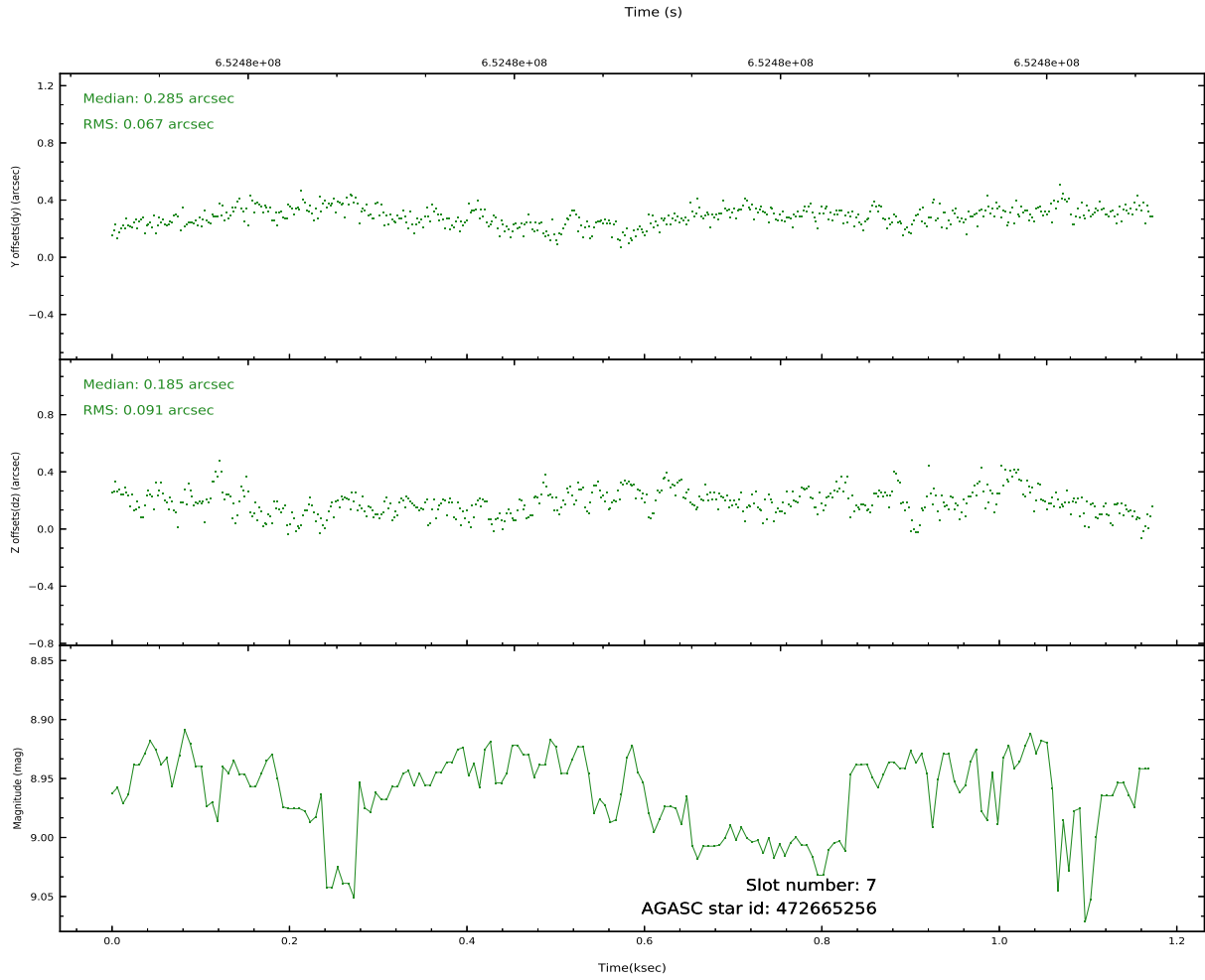
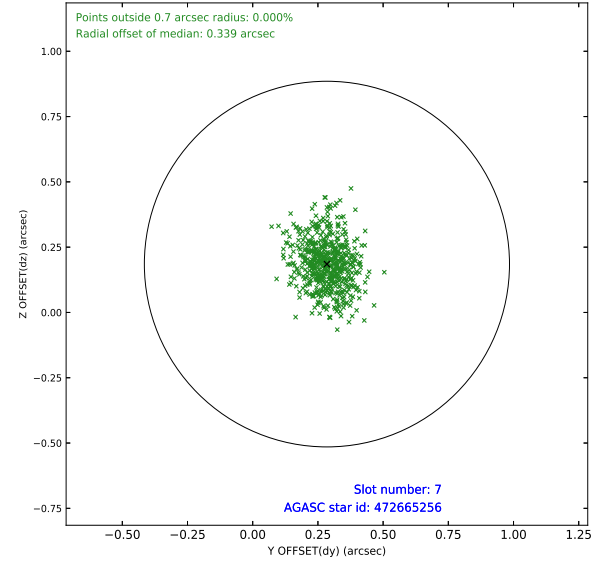
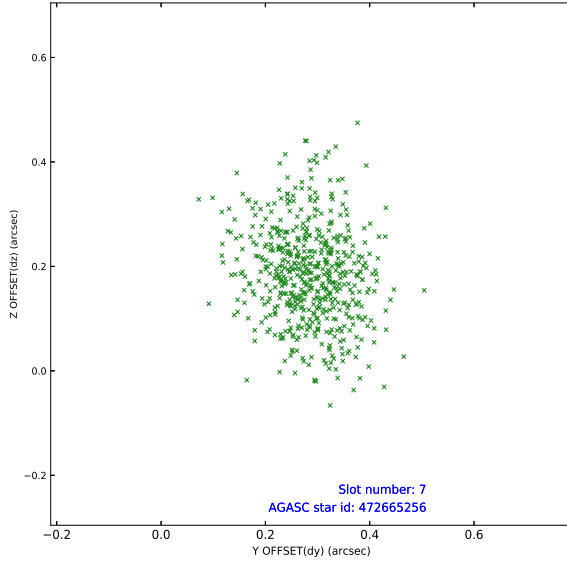
2.4.4 Slot 6



Time (s)

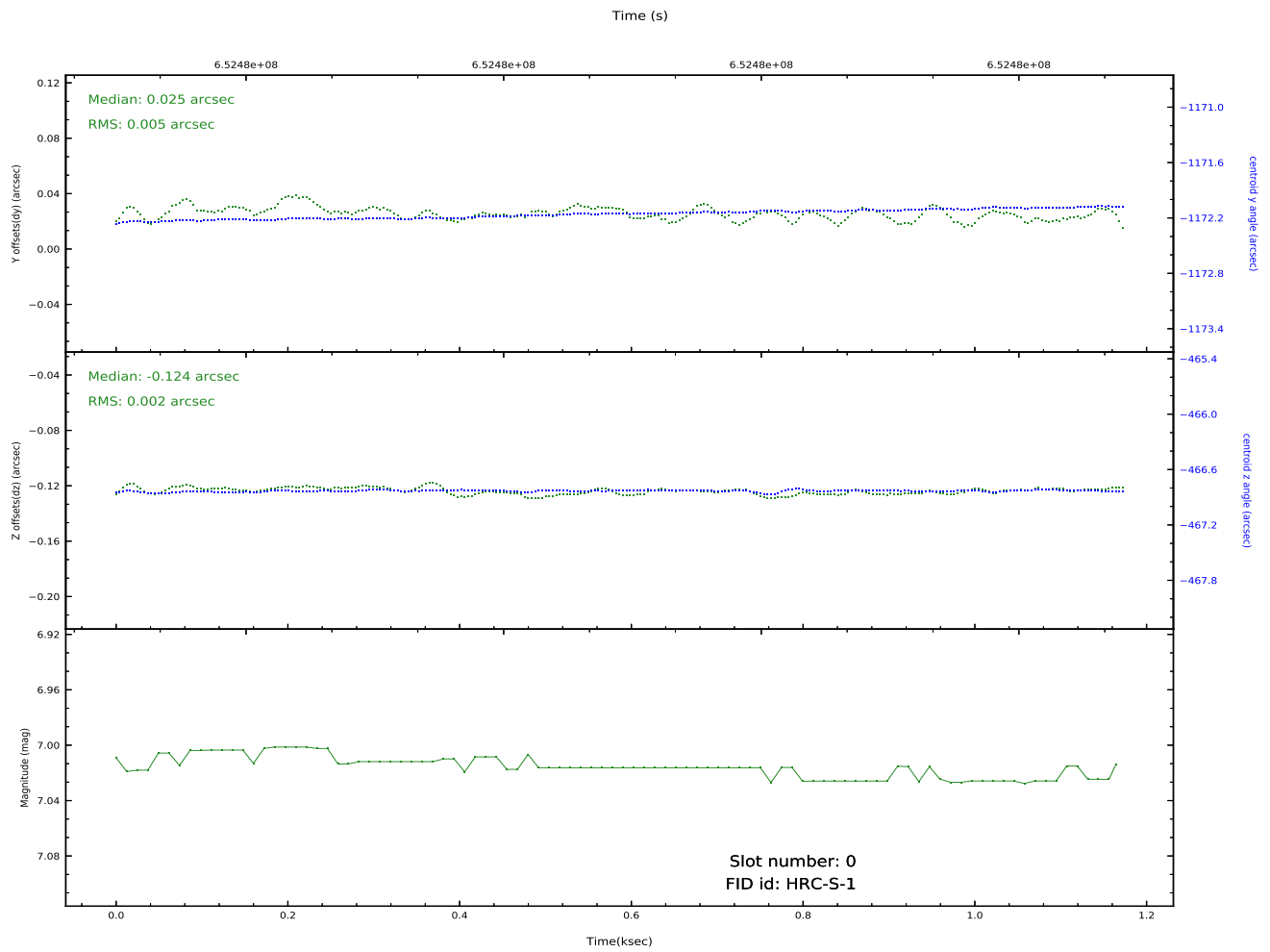
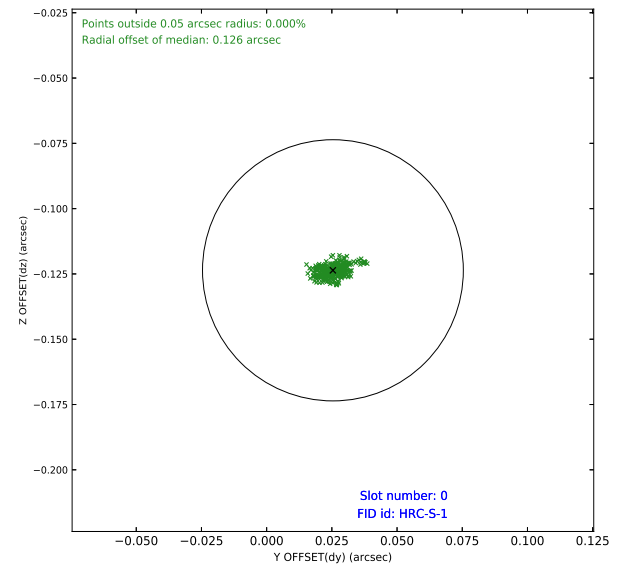
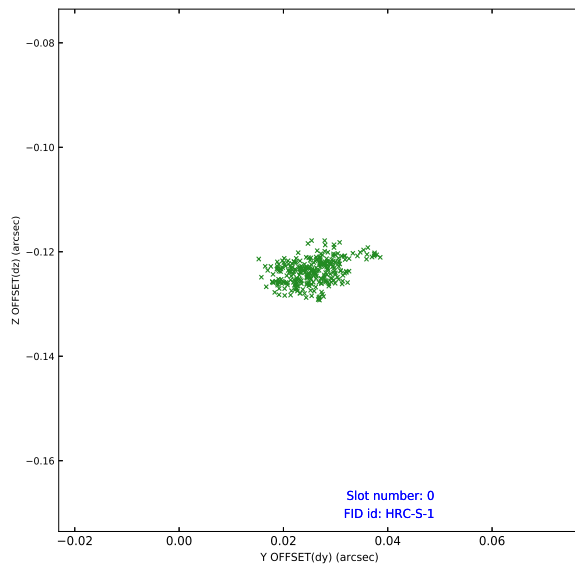


2.4.5 Slot 7

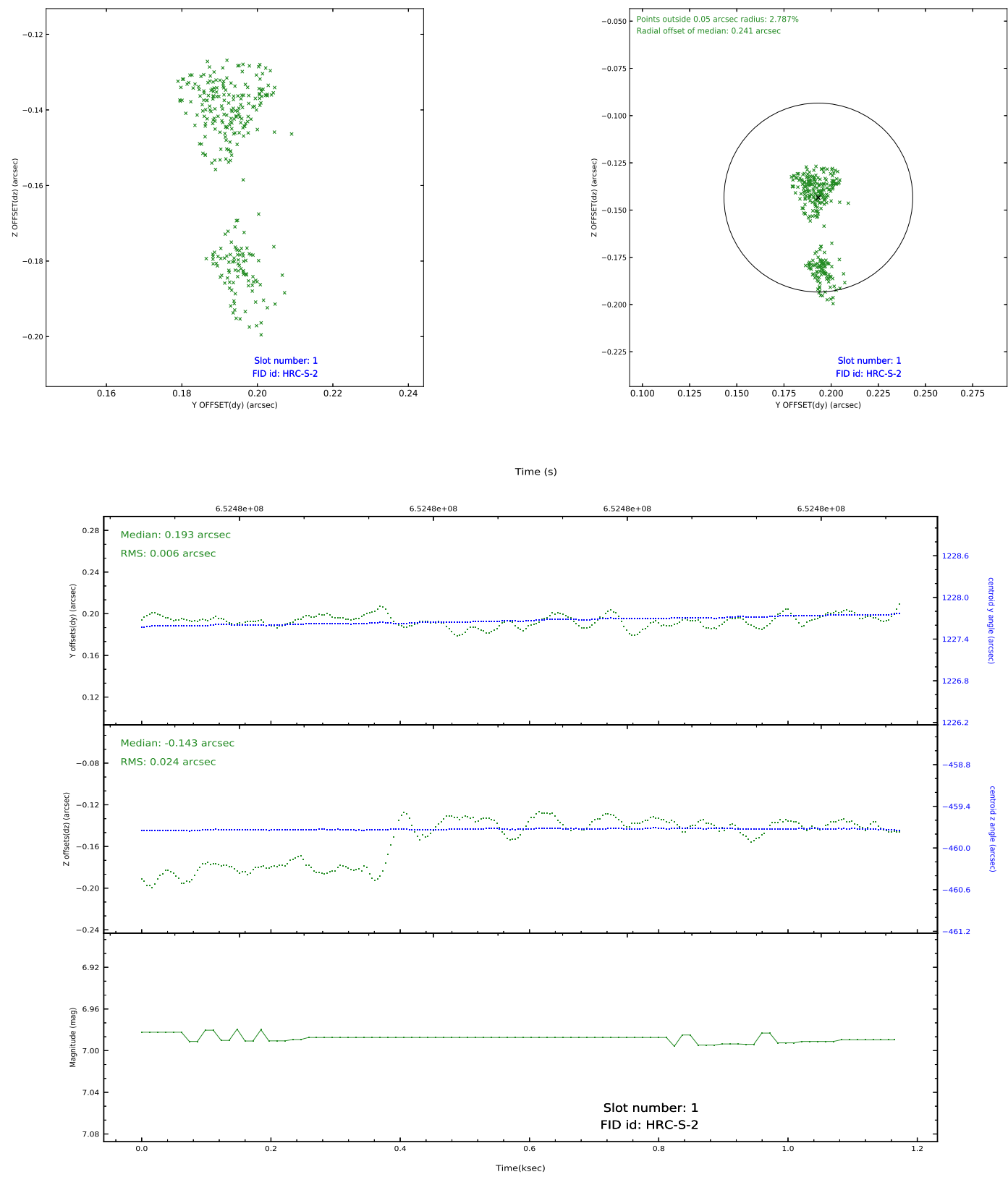


2.5 FID Slots

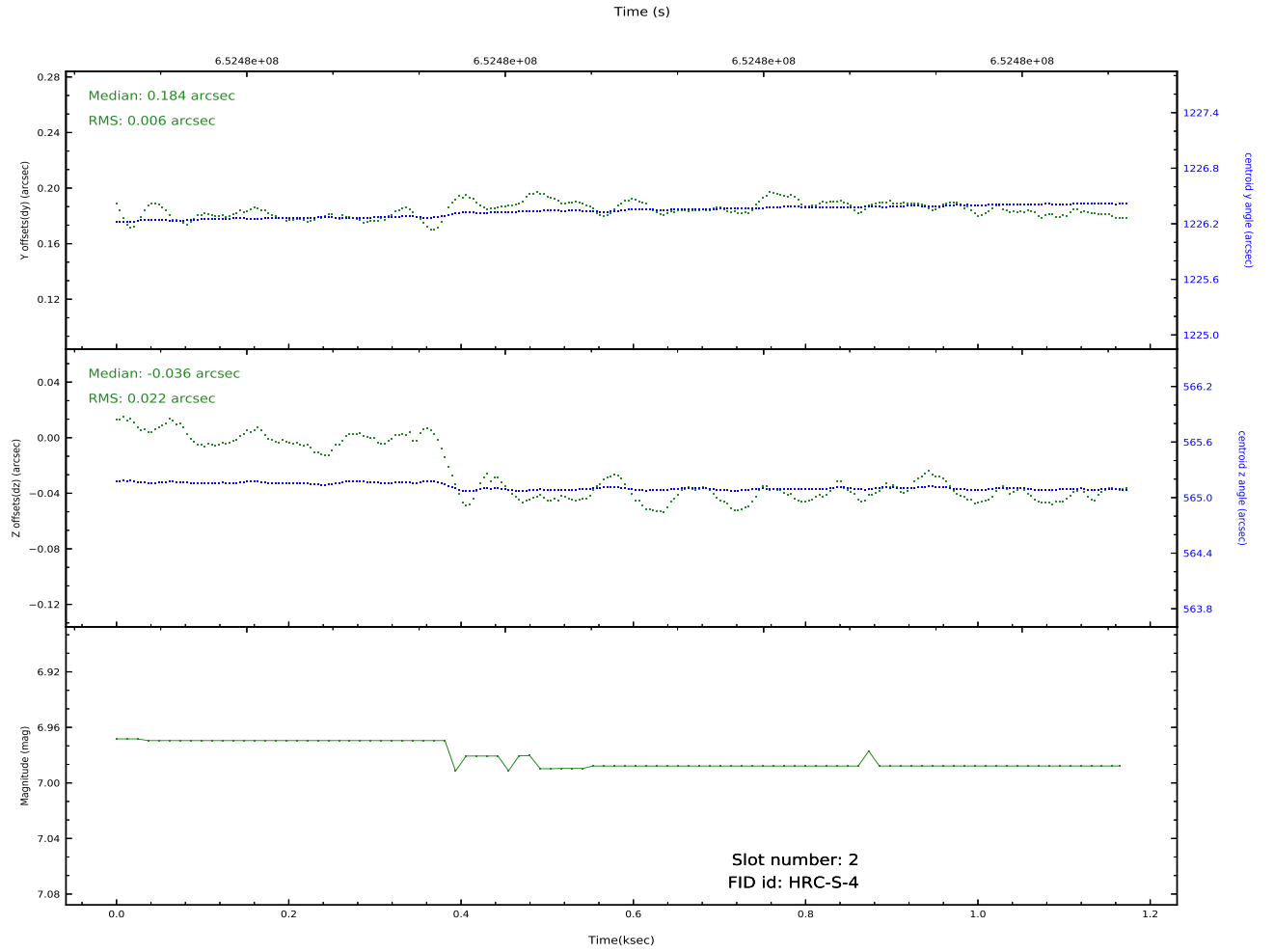
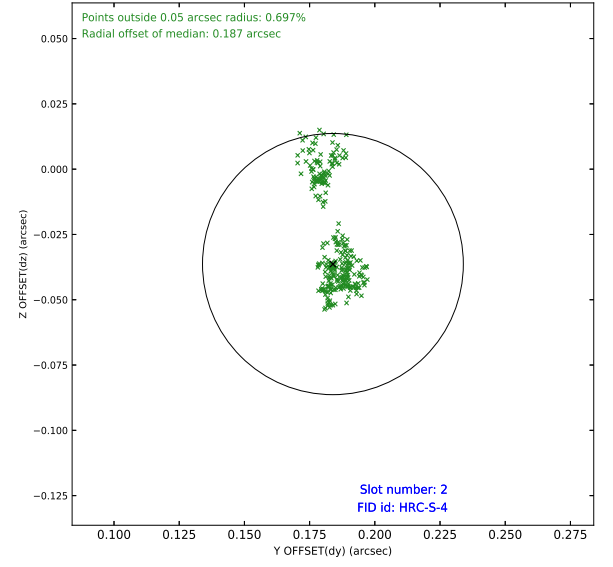
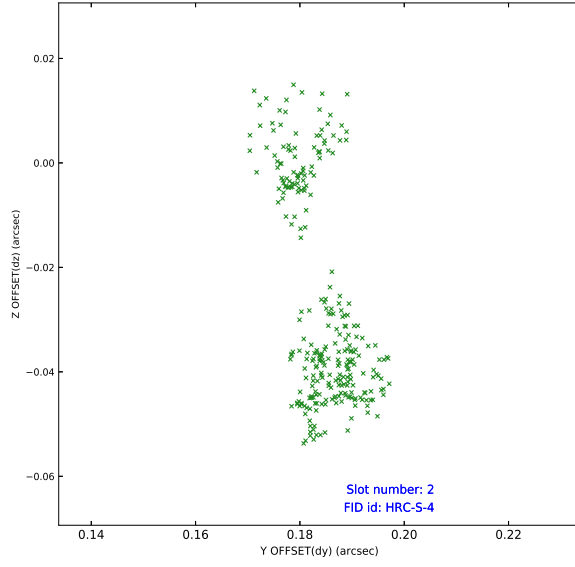
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1736250698566

A.2 Comments