

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20691 - L2 Version 2
Chandra X-Ray Center

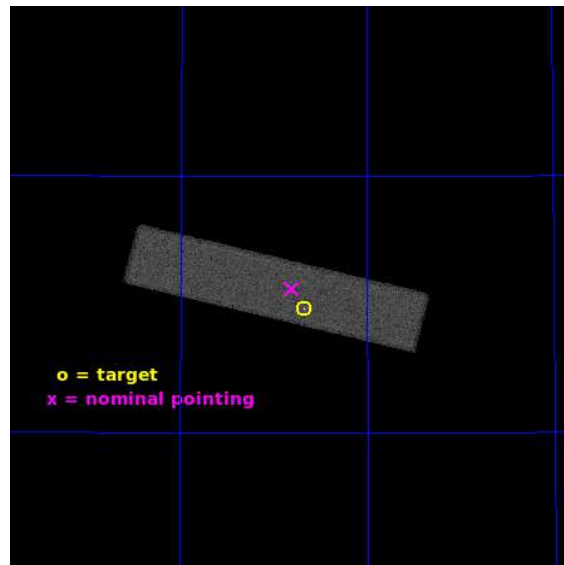
L2 Processing Date : Oct 27 2020

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1 Front

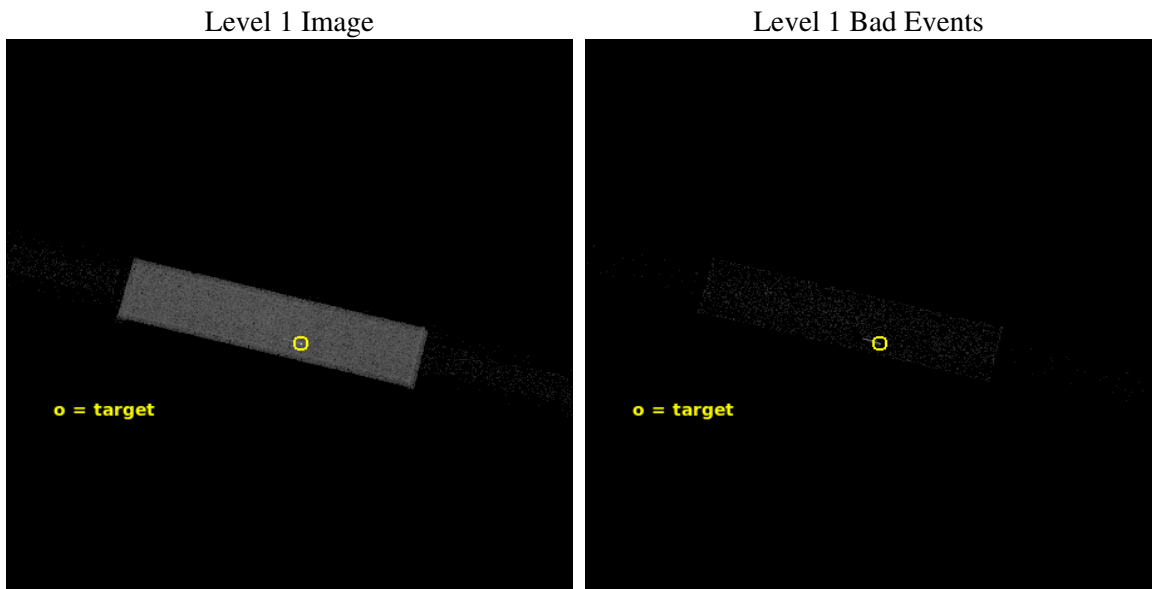
seq_num	291402	Sequence number
obs_id	20691	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20147613565	Nominal RA [deg]
dec_nom	45.780922473561	Nominal Dec [deg]
roll_nom	193.98653396214	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1177.7250699997	[s]
livetime	1167.7782085163	Ontime multiplied by DTCOR
l2events	76423	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	1177.7250699997	[s]
caldsver	4.9.3	 	l1events	115168	Number of level 1 events
date	2020-10-27T16:43:21	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

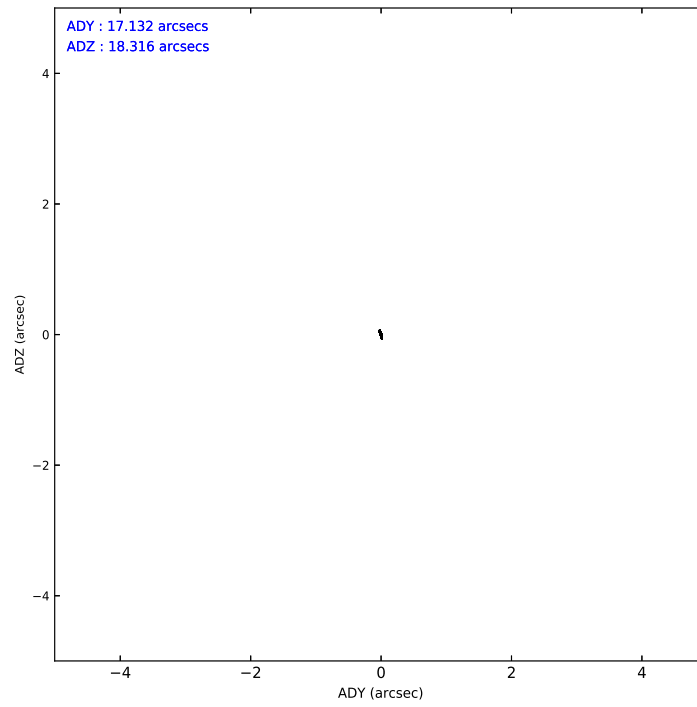
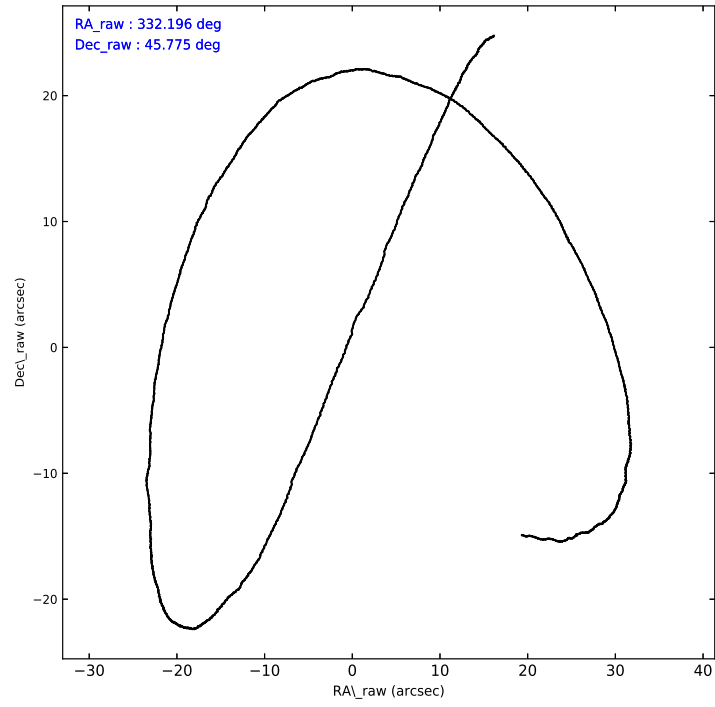
	segment 1	segment 2	segment 3
level 1 events	952	113248	968
rejected events	952	23936	968
rejected %	100%	21%	100%

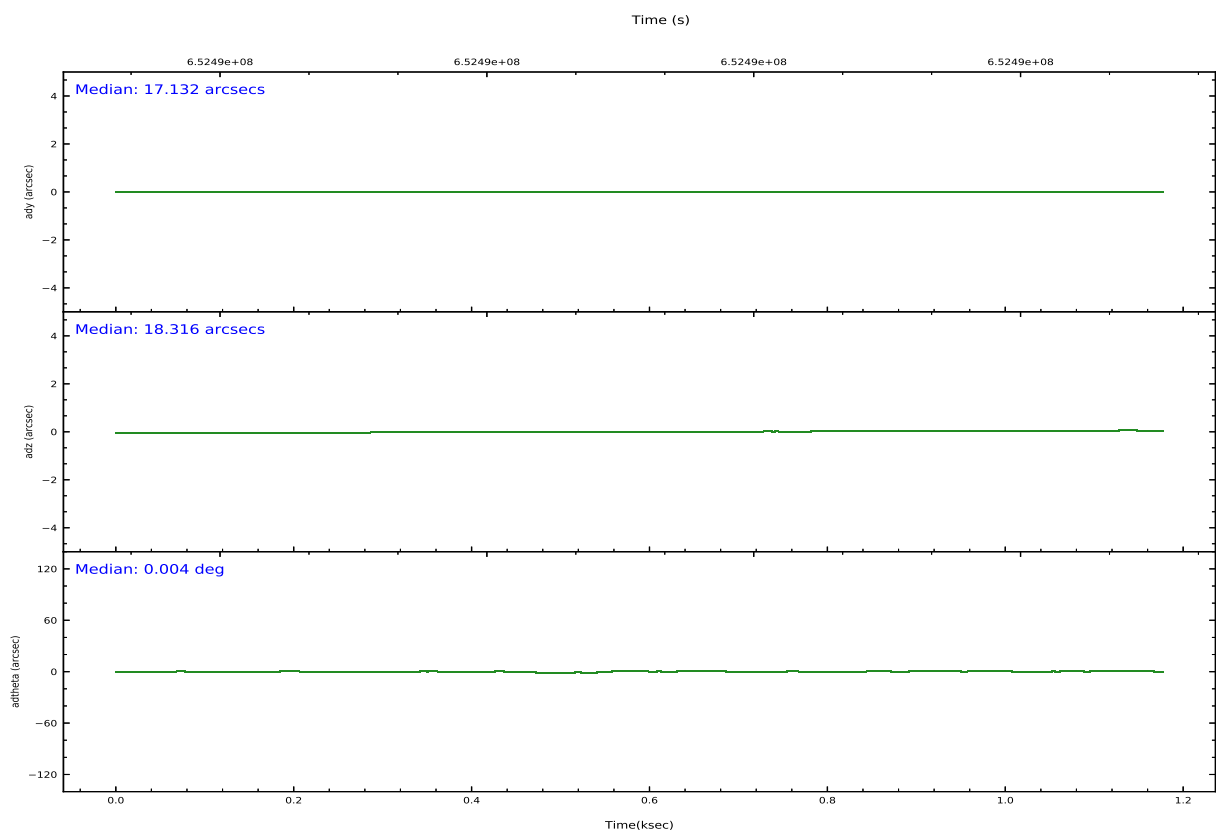
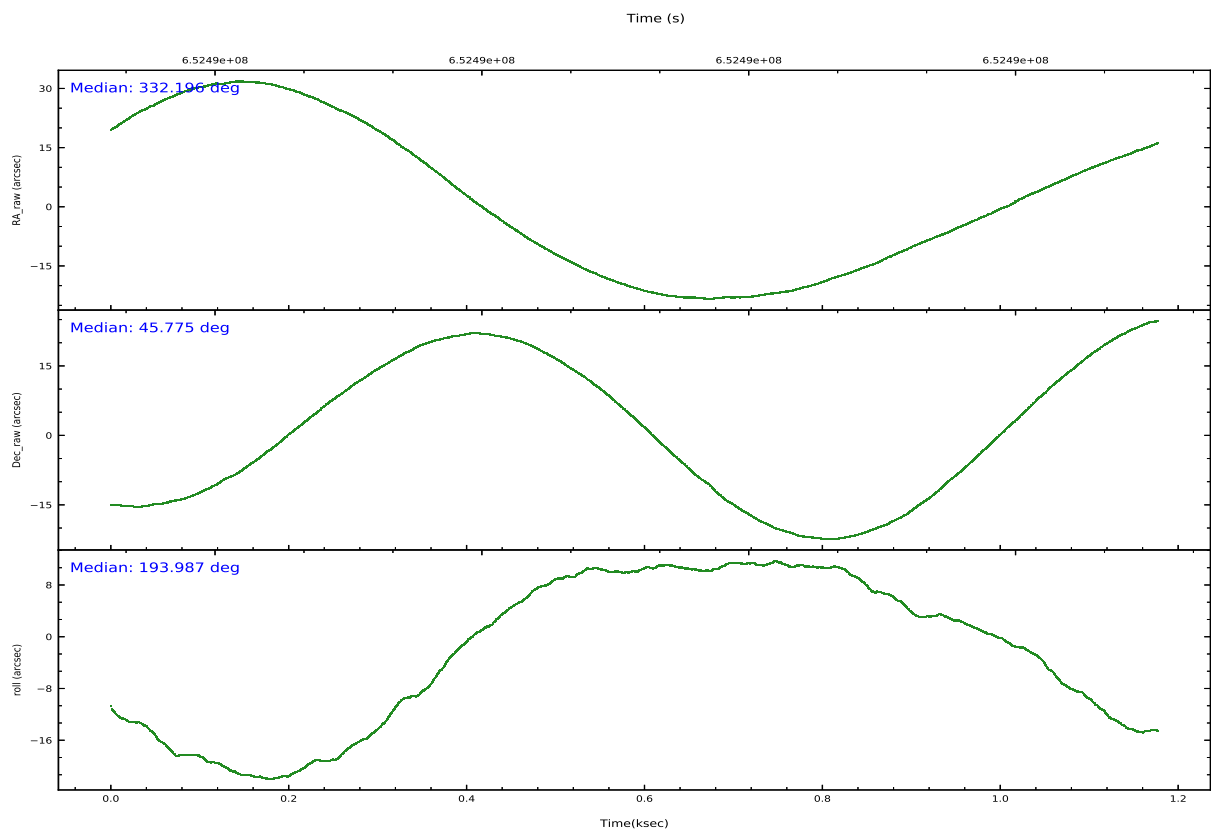
2.2 Compared Parameters

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	332.224182	332.20147613565
[deg] Pointing Dec	45.795913	45.780922473561
[deg] Pointing Roll	193.909009	193.98653396214
[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)	652488461.184000	652488085.3876899
Observation start date	2018-09-04T22:46:32	2018-09-04T22:41:25
[s] Observation end time (MET)	652489461.184000	652489595.21278
Observation end date	2018-09-04T23:03:12	2018-09-04T23:06:35

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

2.3 Aspect



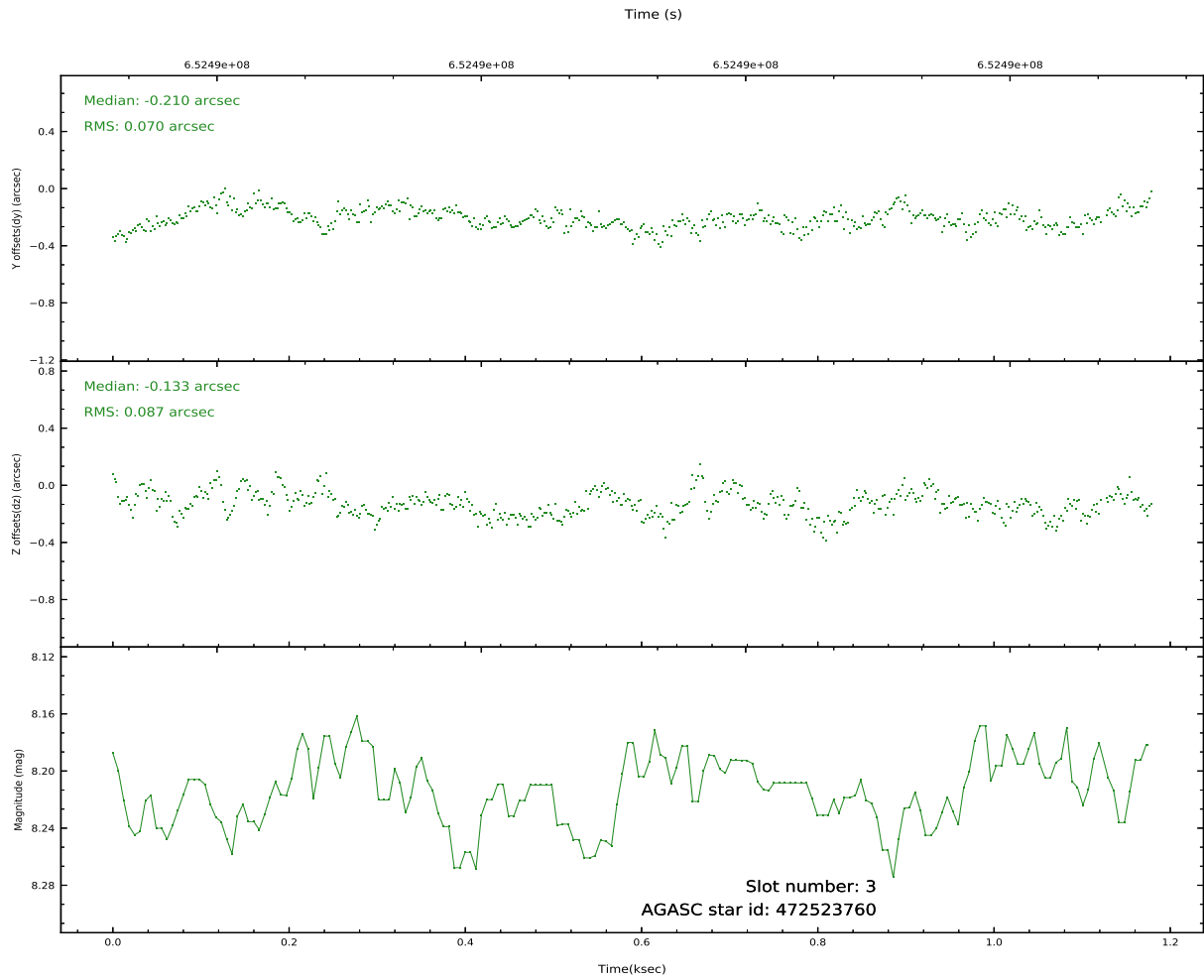
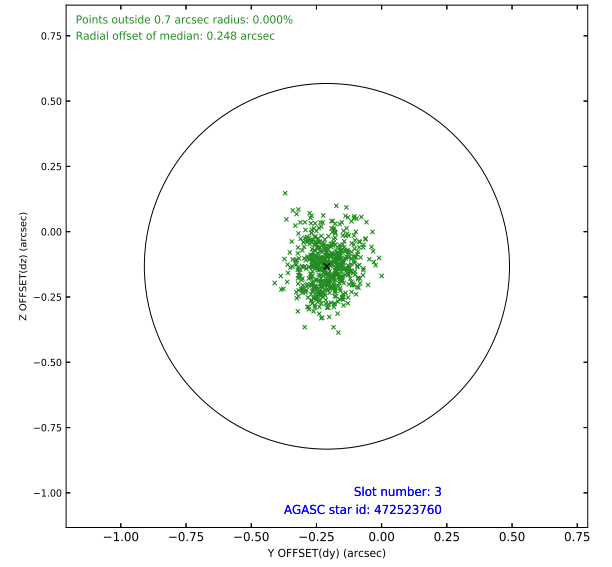
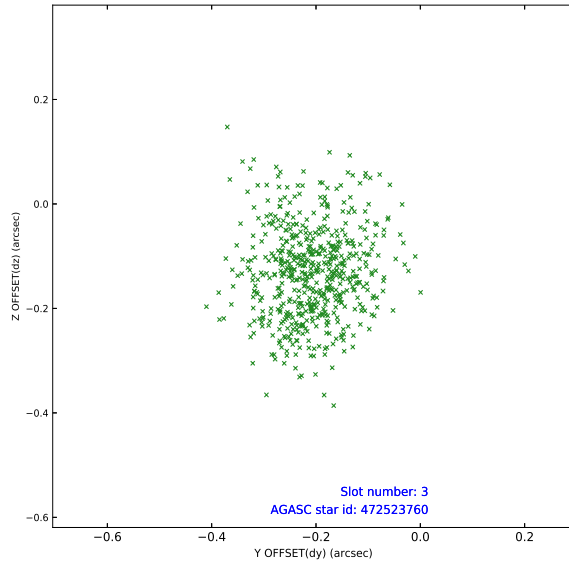


Slot Statistics

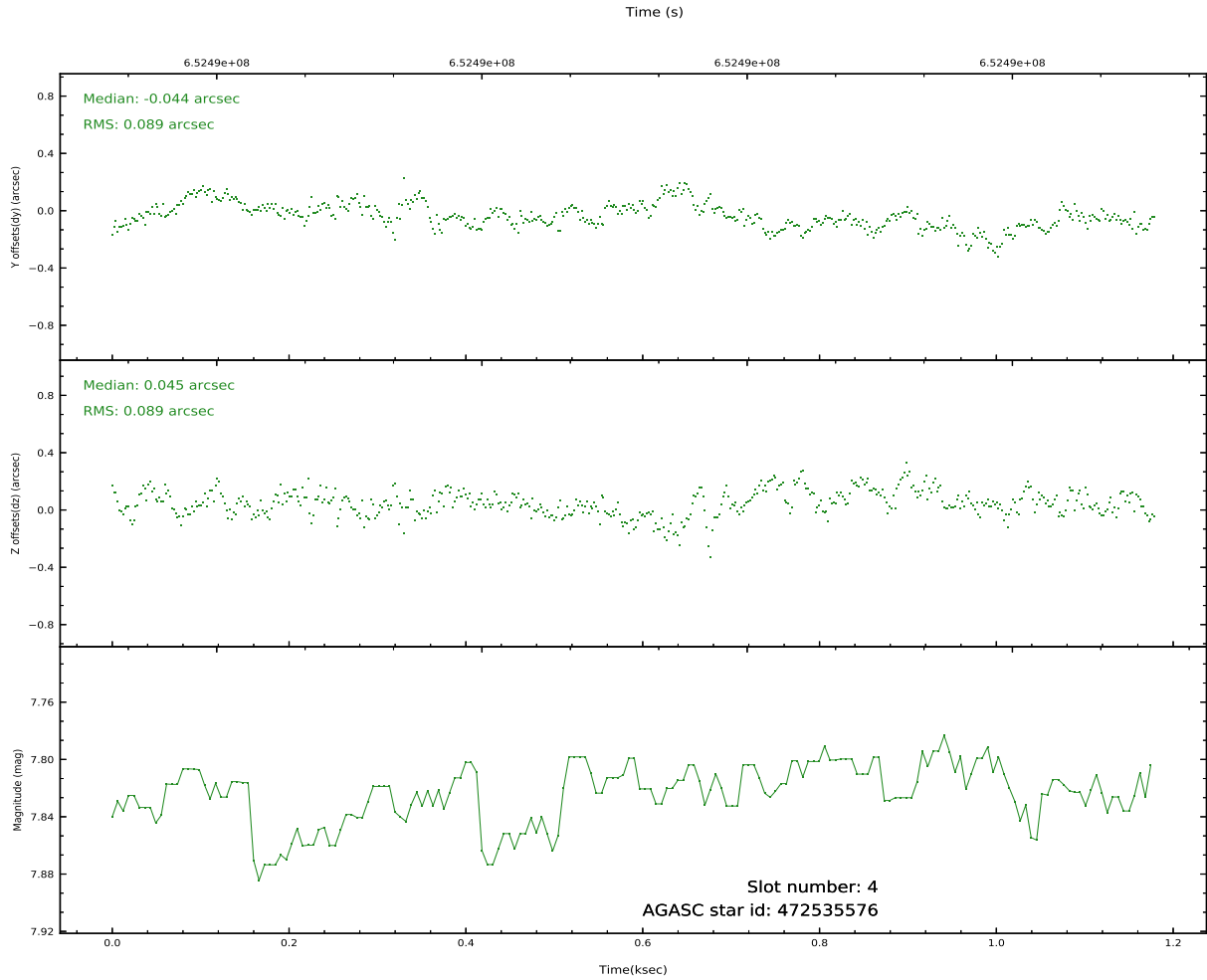
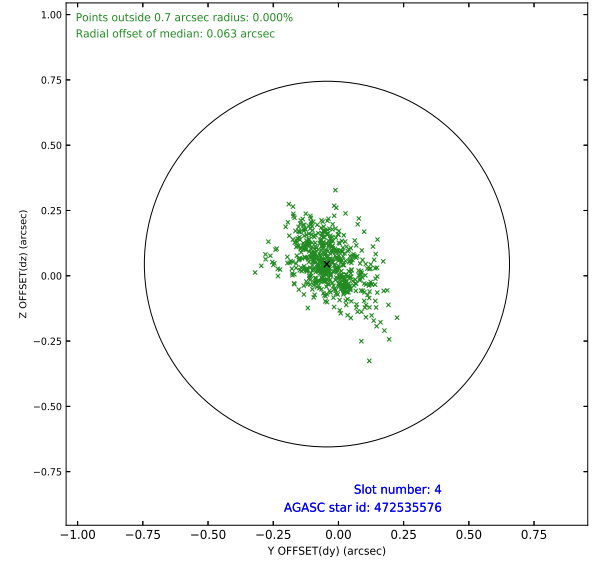
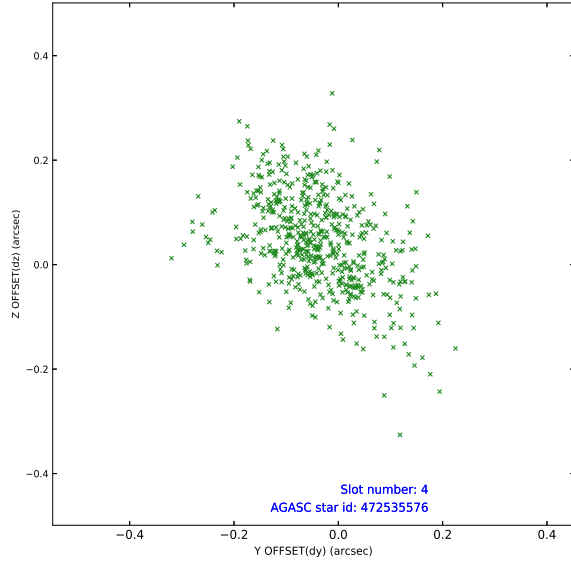
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.03	288	1.000	0.089	-0.200	0.006	0.009	0.000000	0.000000	-1171.62	-467
1	FID		HRC-S-2	7.00	288	1.000	0.298	-0.155	0.005	0.009	0.000000	0.000000	1224.18	-461
2	FID		HRC-S-3	7.02	288	1.000	0.002	0.052	0.007	0.012	0.000000	0.000000	-1170.05	561
3	GUIDE	used	472523760	8.21	574	1.000	-0.210	-0.133	0.119	0.196	331.645363	45.403260	1760.03	1014
4	GUIDE	used	472535576	7.82	576	1.000	-0.044	0.045	0.129	0.224	331.438373	46.291802	1470.77	-2211
5	GUIDE	used	472533912	9.12	576	1.000	-0.015	-0.024	0.203	0.378	331.791136	46.368695	552.14	-2267
6	GUIDE	used	472655152	9.41	574	1.000	0.014	0.094	0.232	0.399	332.504239	45.862991	-737.44	-71
7	GUIDE	used	472665256	8.94	574	1.000	0.236	0.065	0.173	0.283	332.808125	46.195041	-1758.64	-1051

2.4 Star Slots

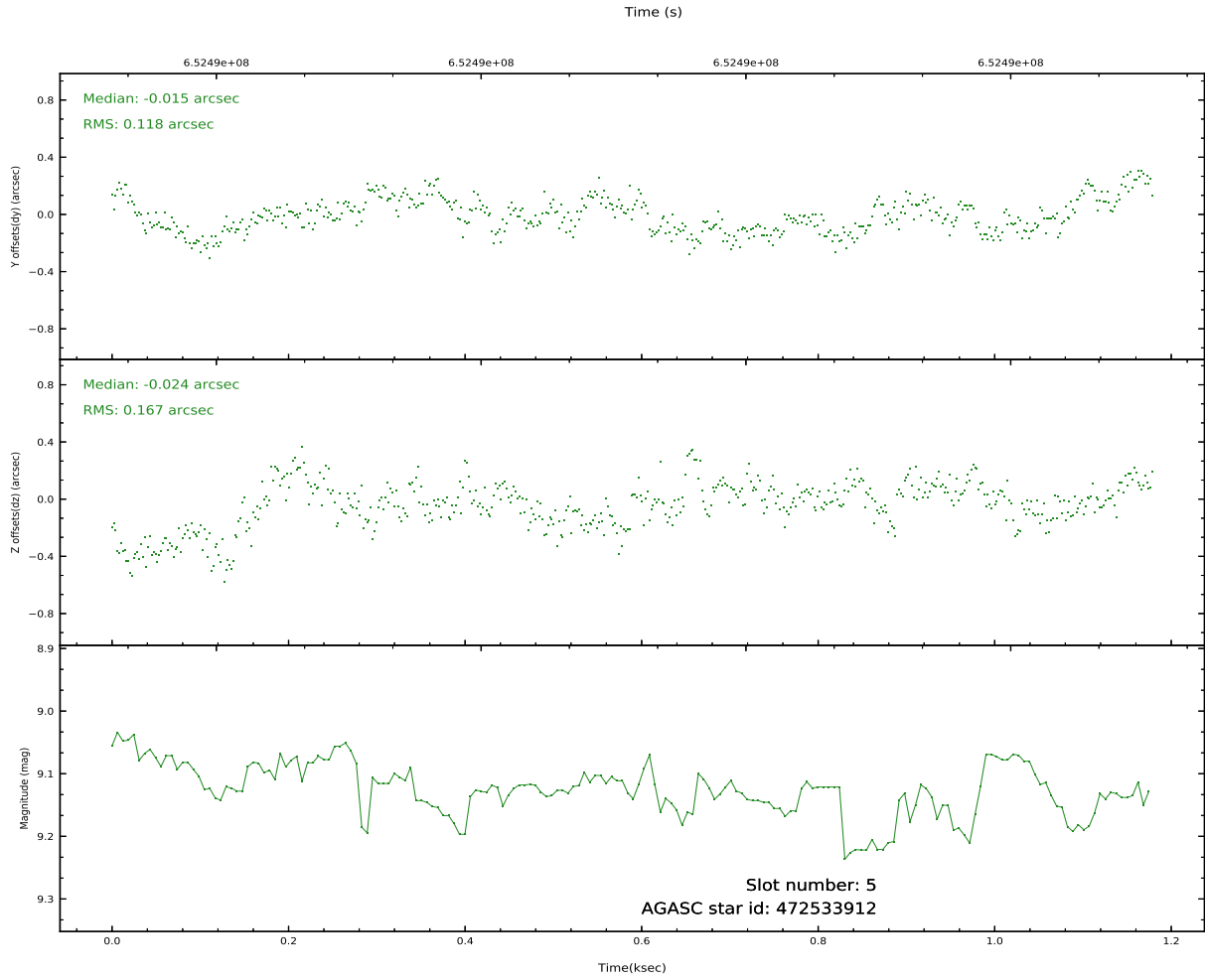
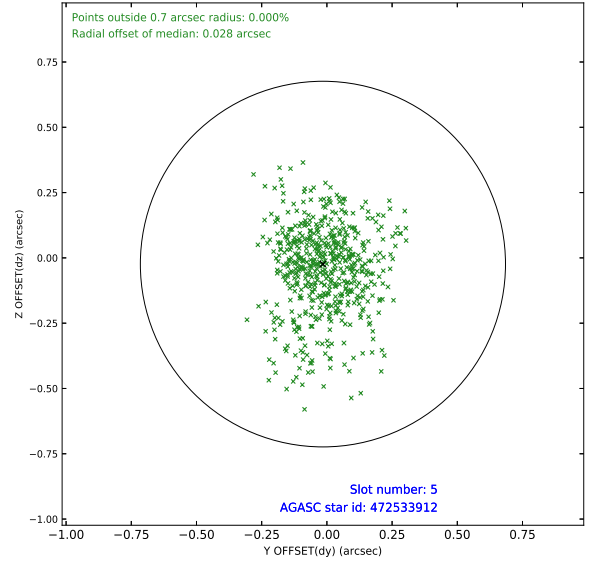
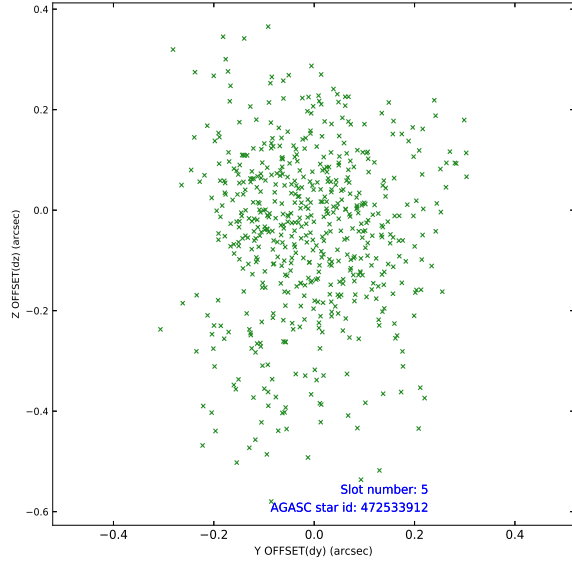
2.4.1 Slot 3



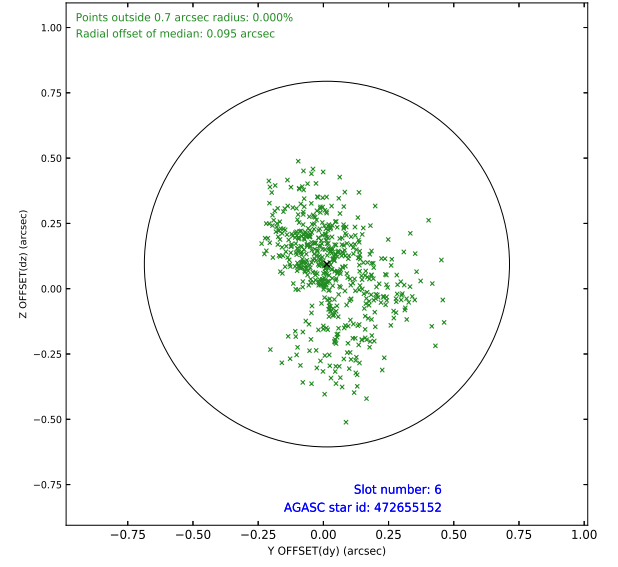
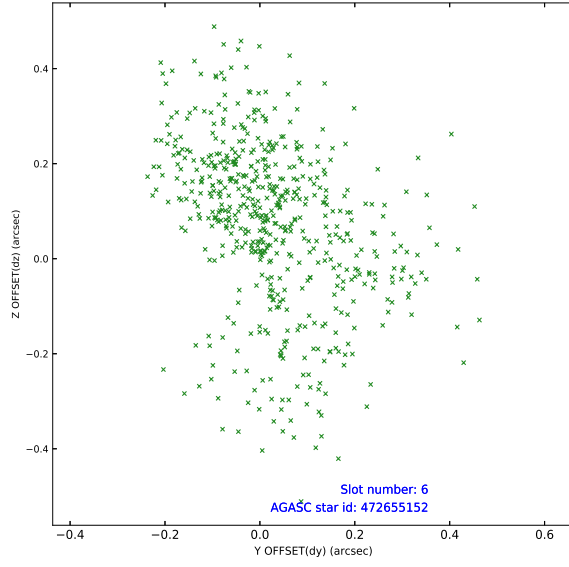
2.4.2 Slot 4



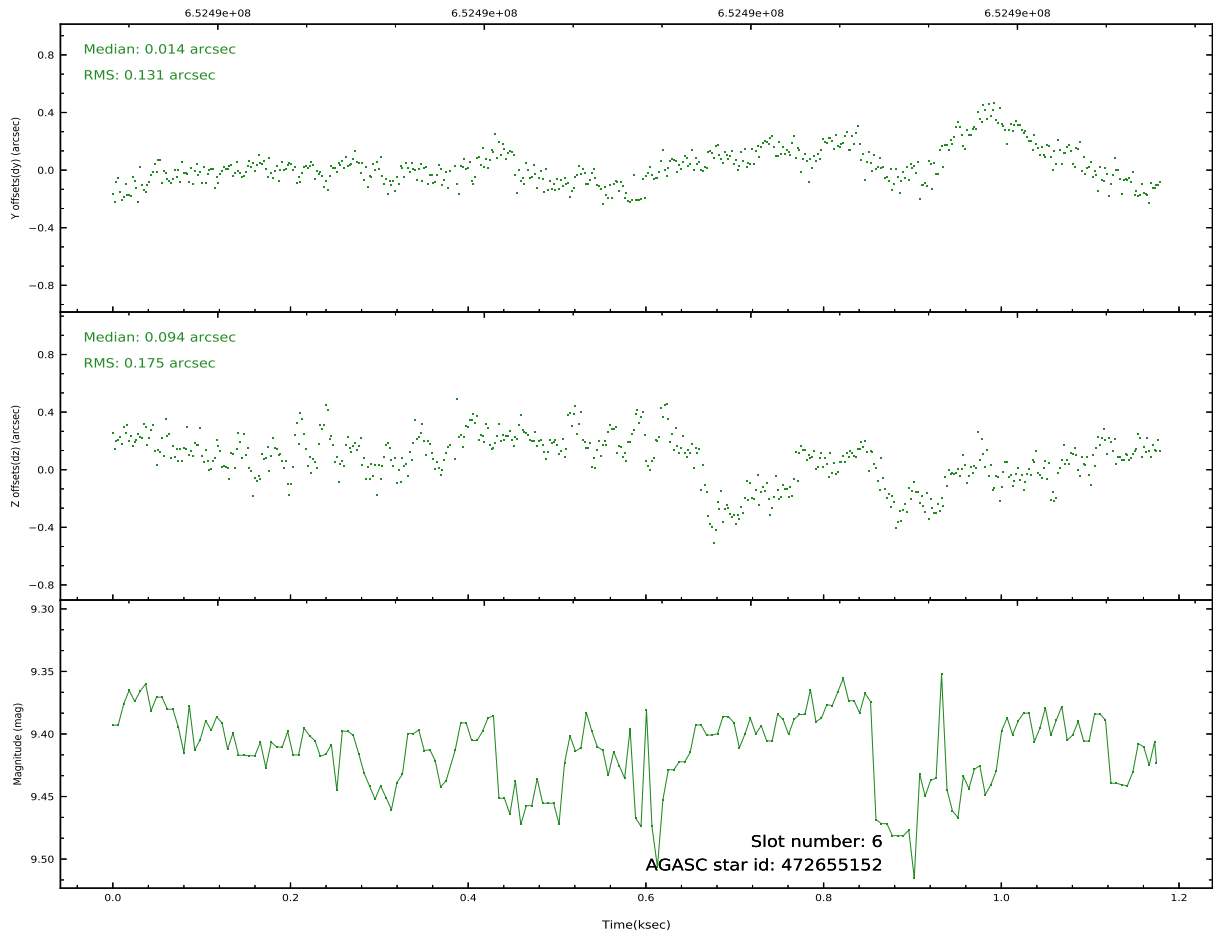
2.4.3 Slot 5



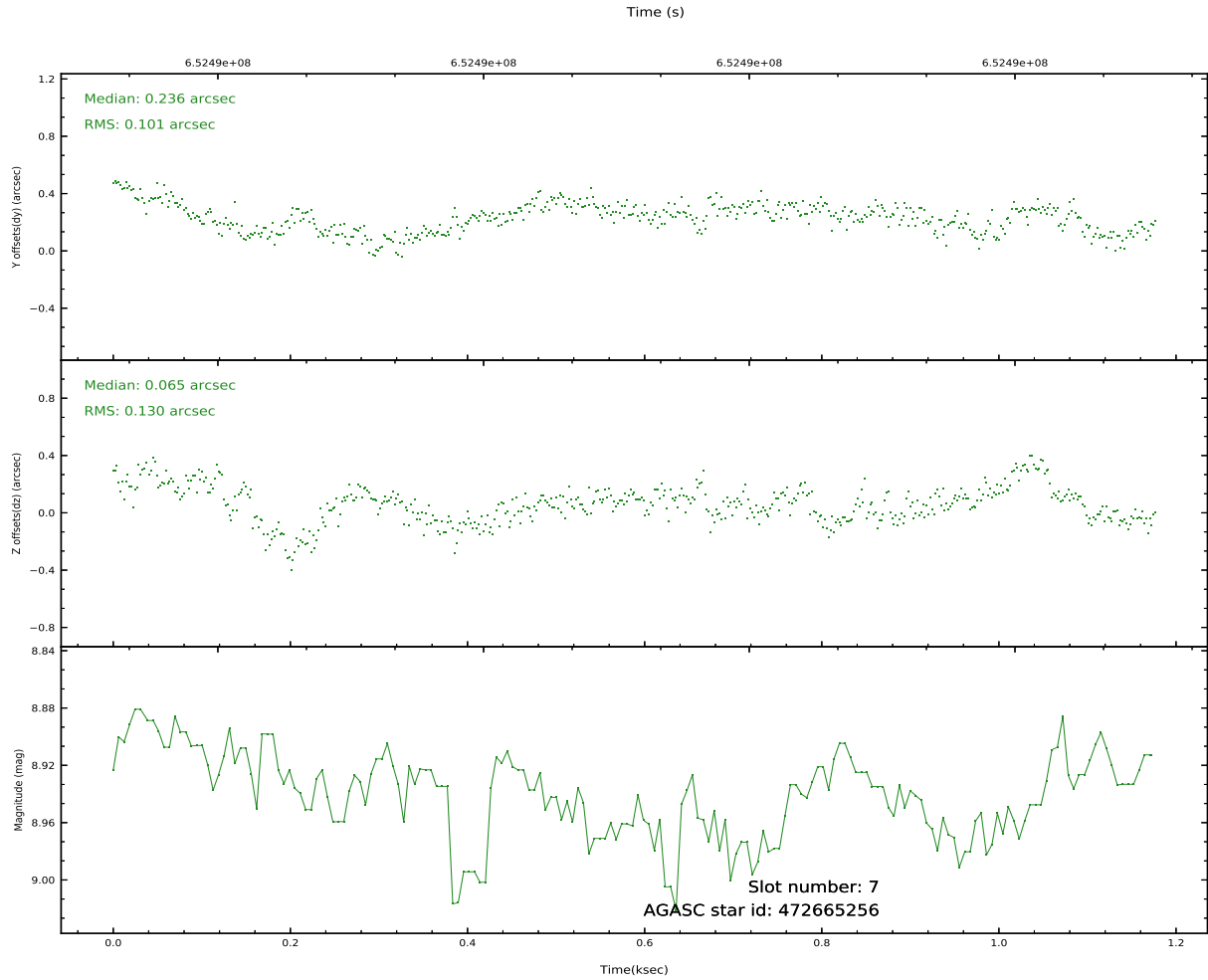
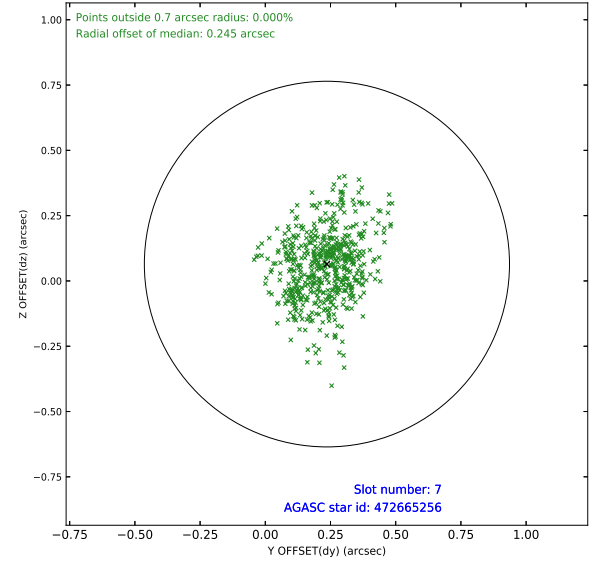
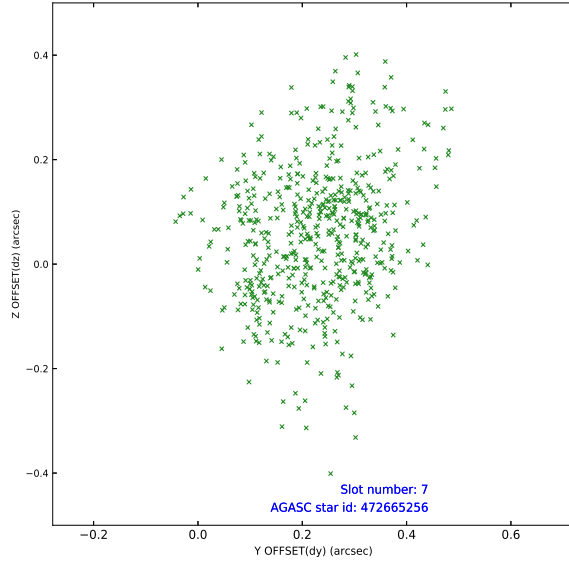
2.4.4 Slot 6



Time (s)

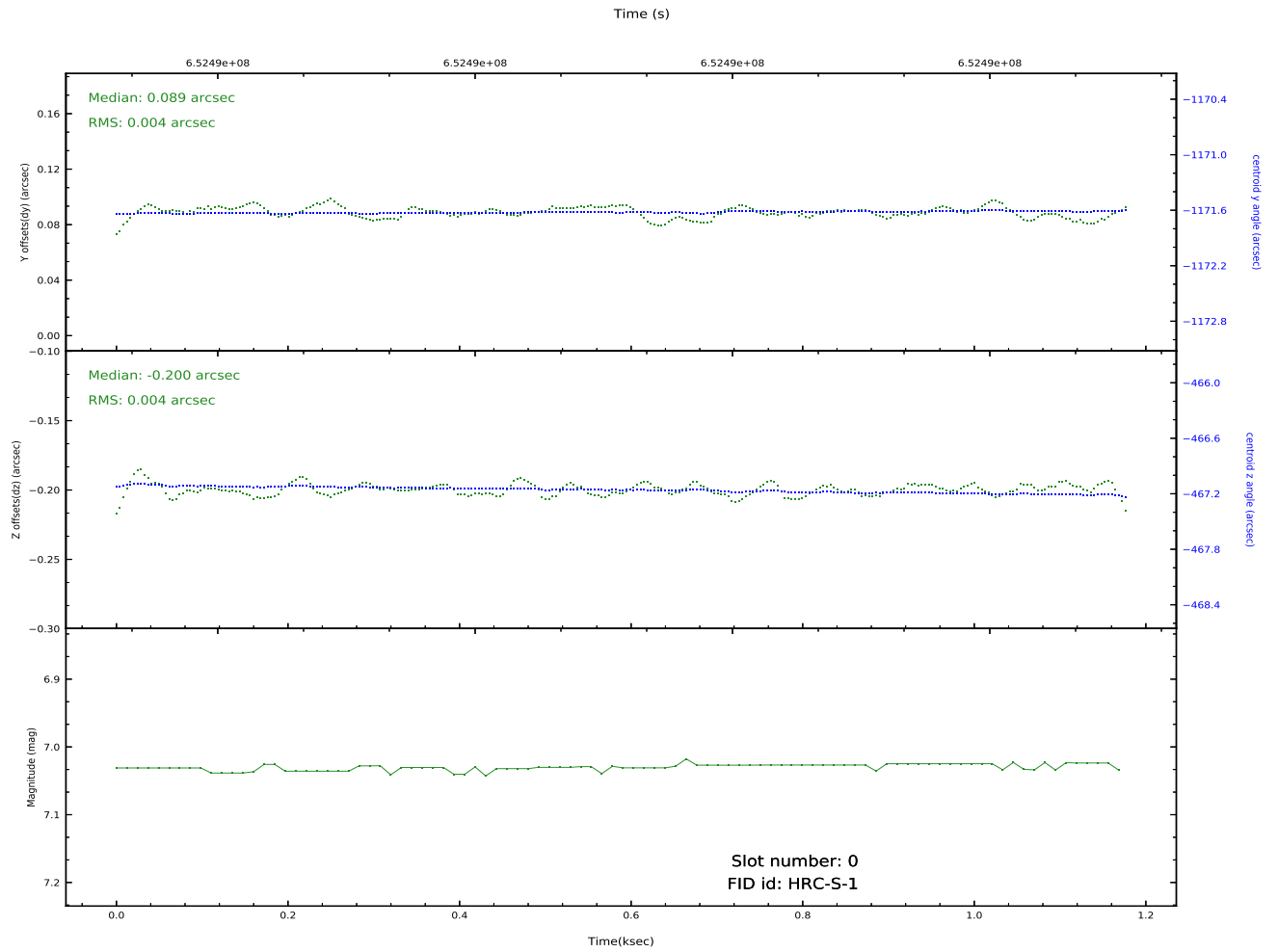
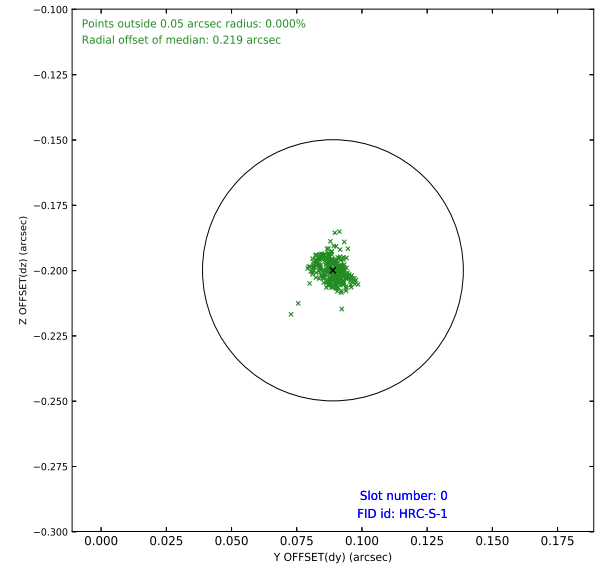
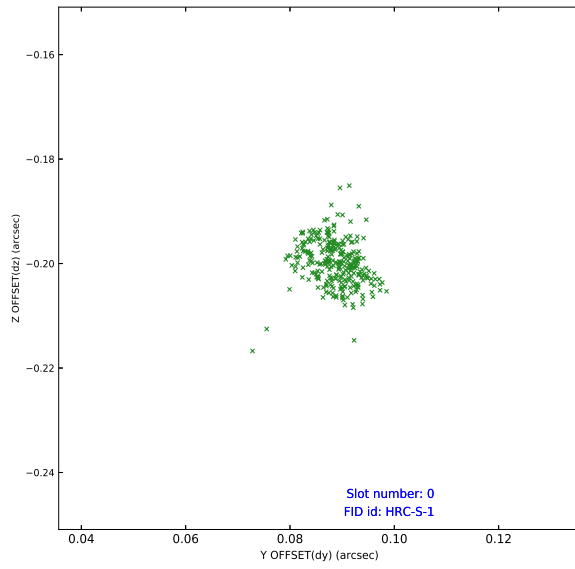


2.4.5 Slot 7

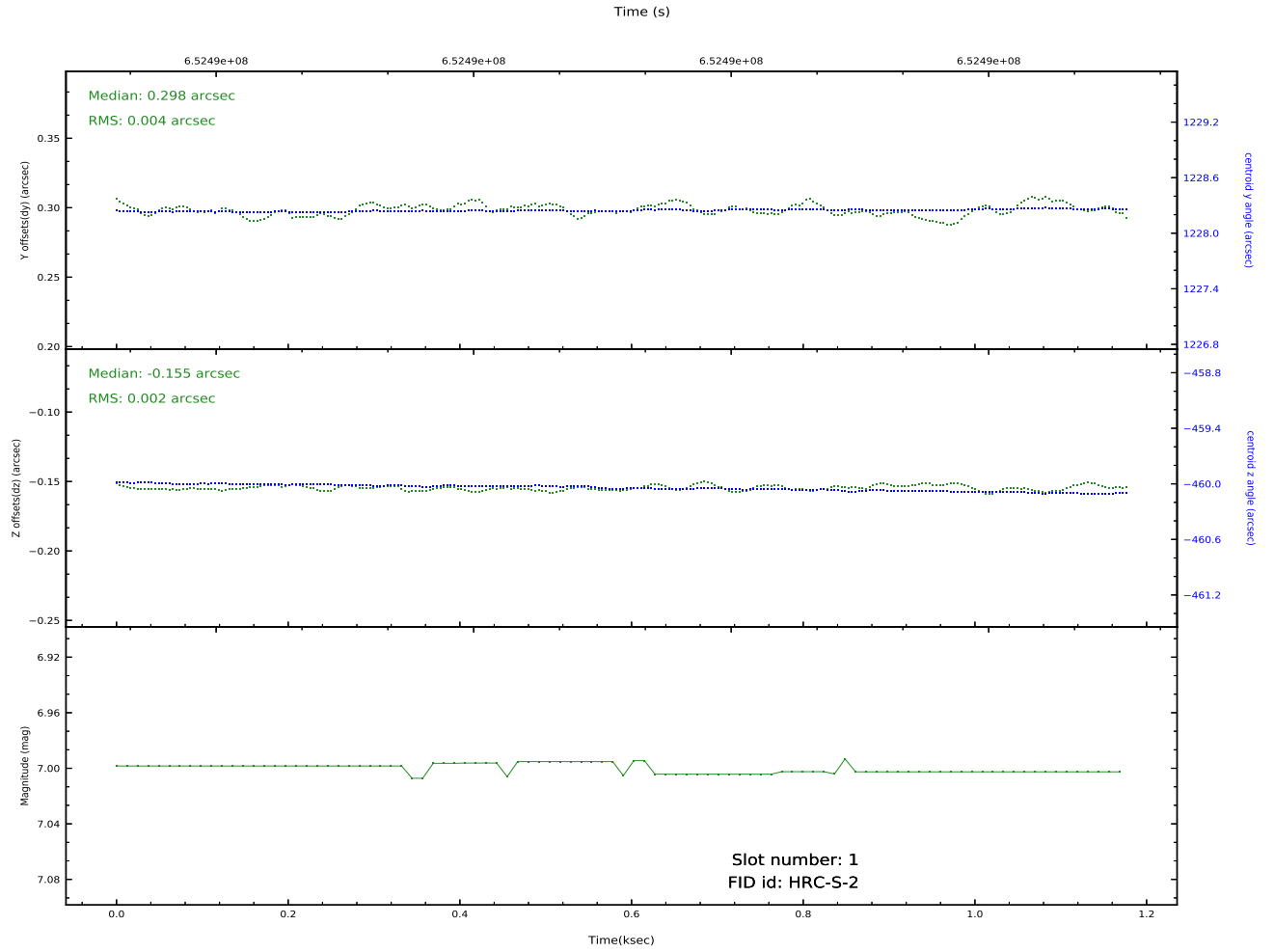
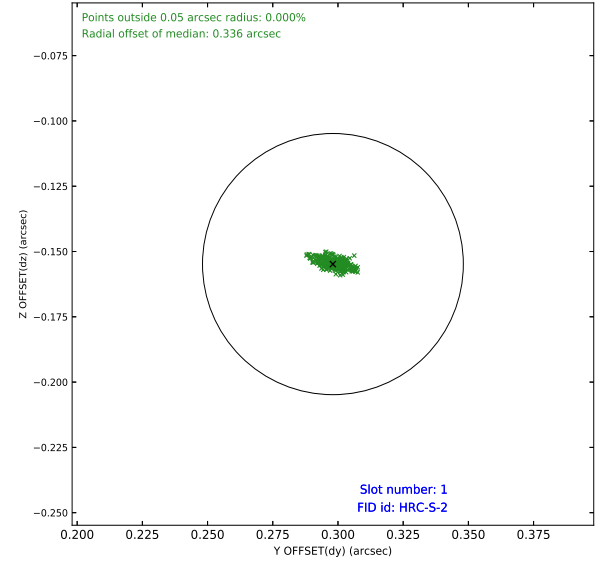
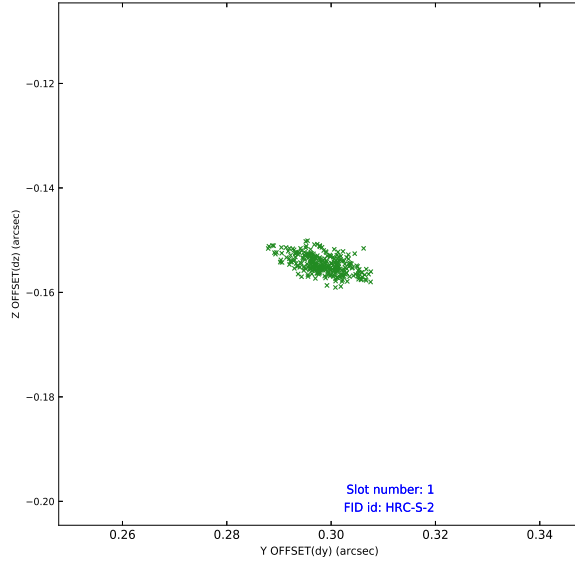


2.5 FID Slots

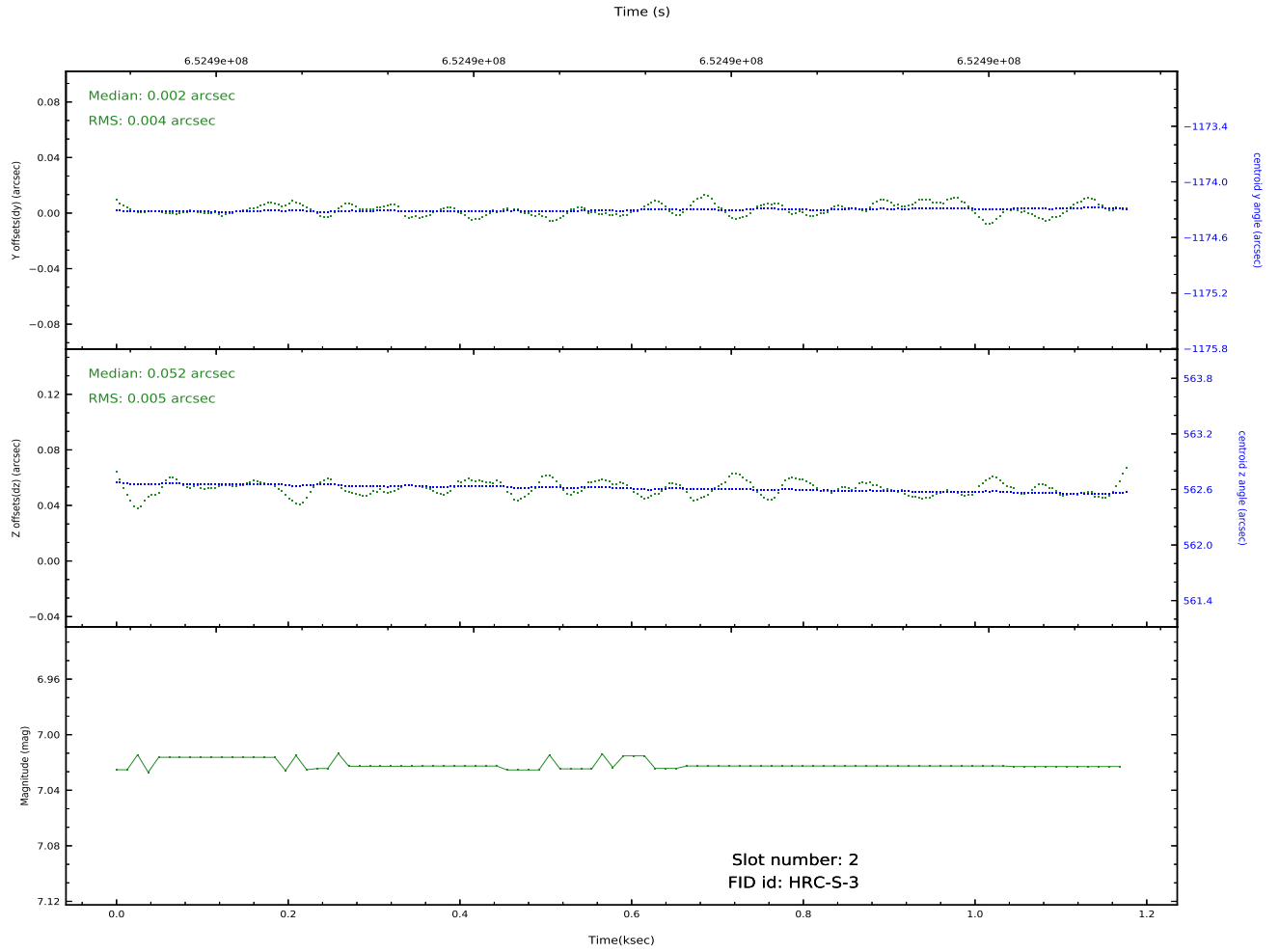
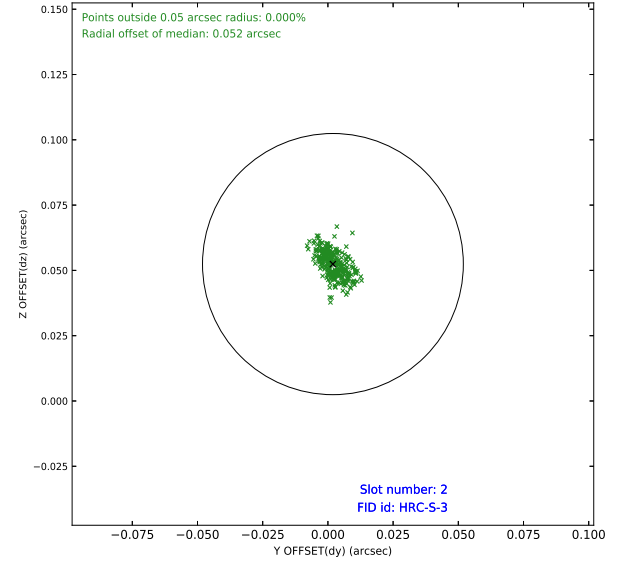
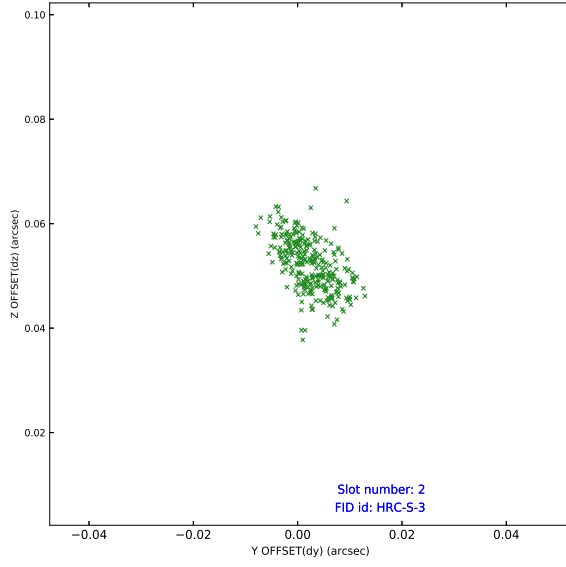
2.5.1 Slot 0



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	1.1779813201427

A.2 Comments