

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6021 - L2 Version 4
Chandra X-Ray Center

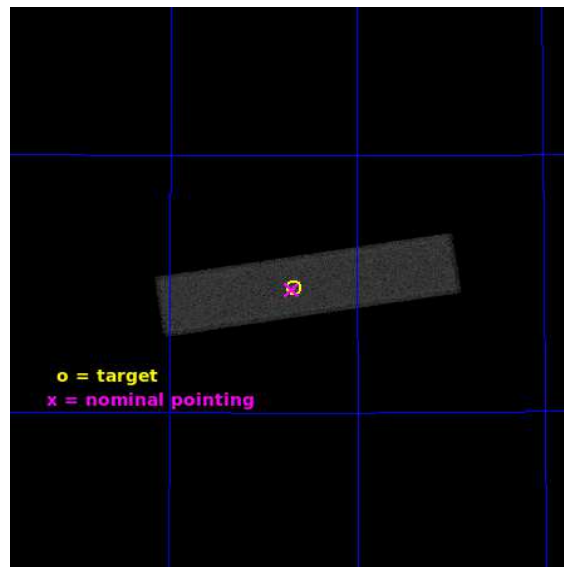
L2 Processing Date : Oct 6 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

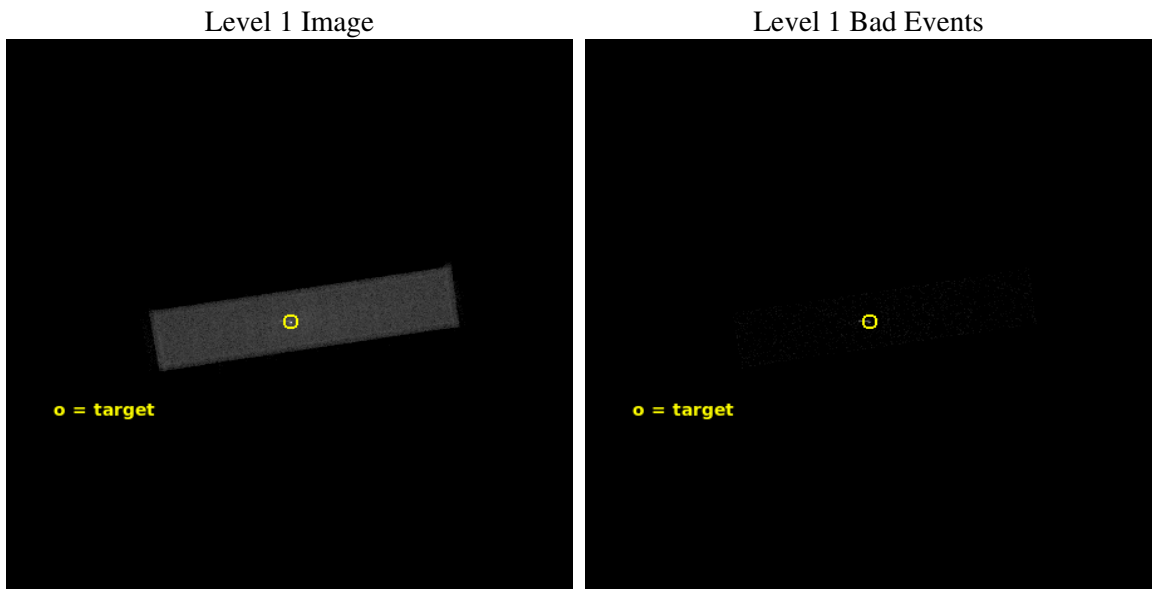
seq_num	290513	Sequence number
obs_id	6021	Observation id
title	AO6A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.17390435528	Nominal RA [deg]
dec_nom	45.739496862101	Nominal Dec [deg]
roll_nom	351.0777251356	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3137.7813919485	[s]
livetime	3118.8117377261	Ontime multiplied by DTCOR
l2events	131657	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	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3137.7813919485	[s]
caldsver	4.9.2	 	l1events	217812	Number of level 1 events
date	2020-10-06T16:04:36	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

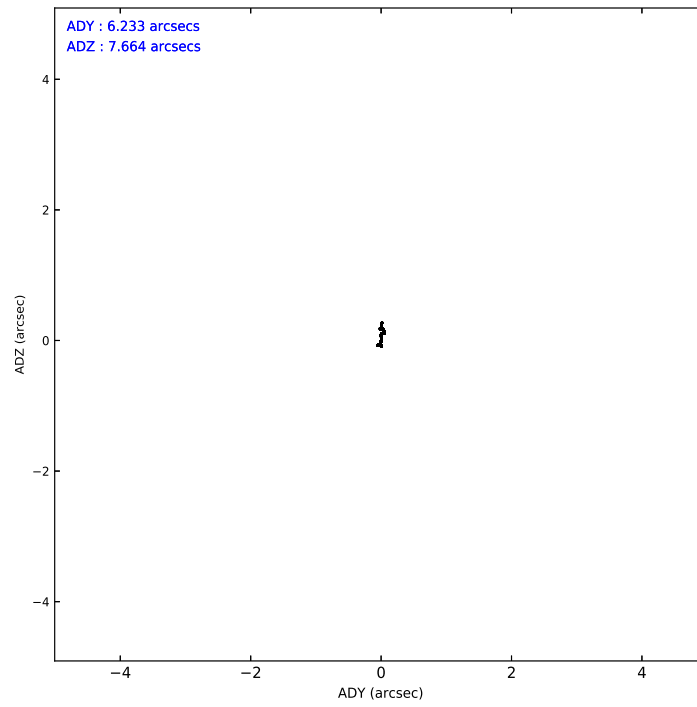
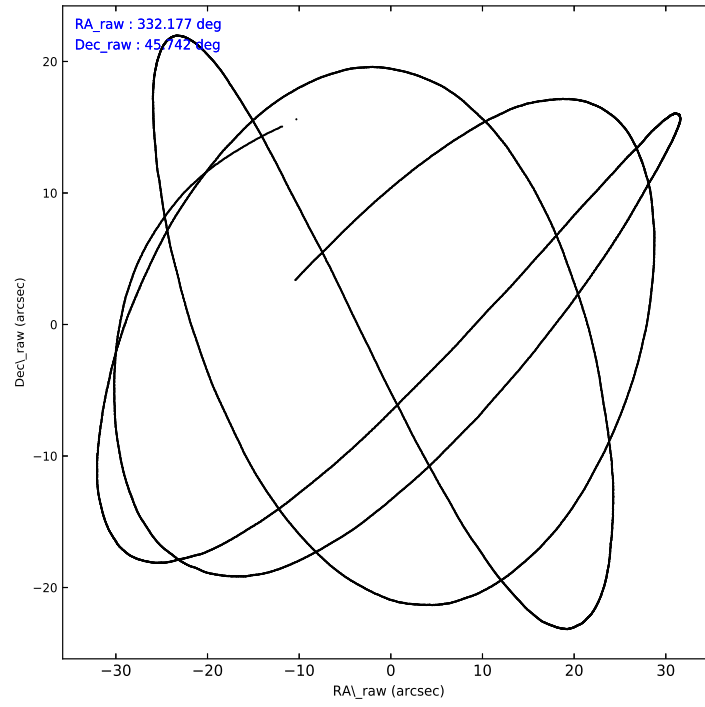
	segment 1	segment 2	segment 3
level 1 events	0	217812	0
rejected events	0	53871	0
rejected %	0%	24%	0%

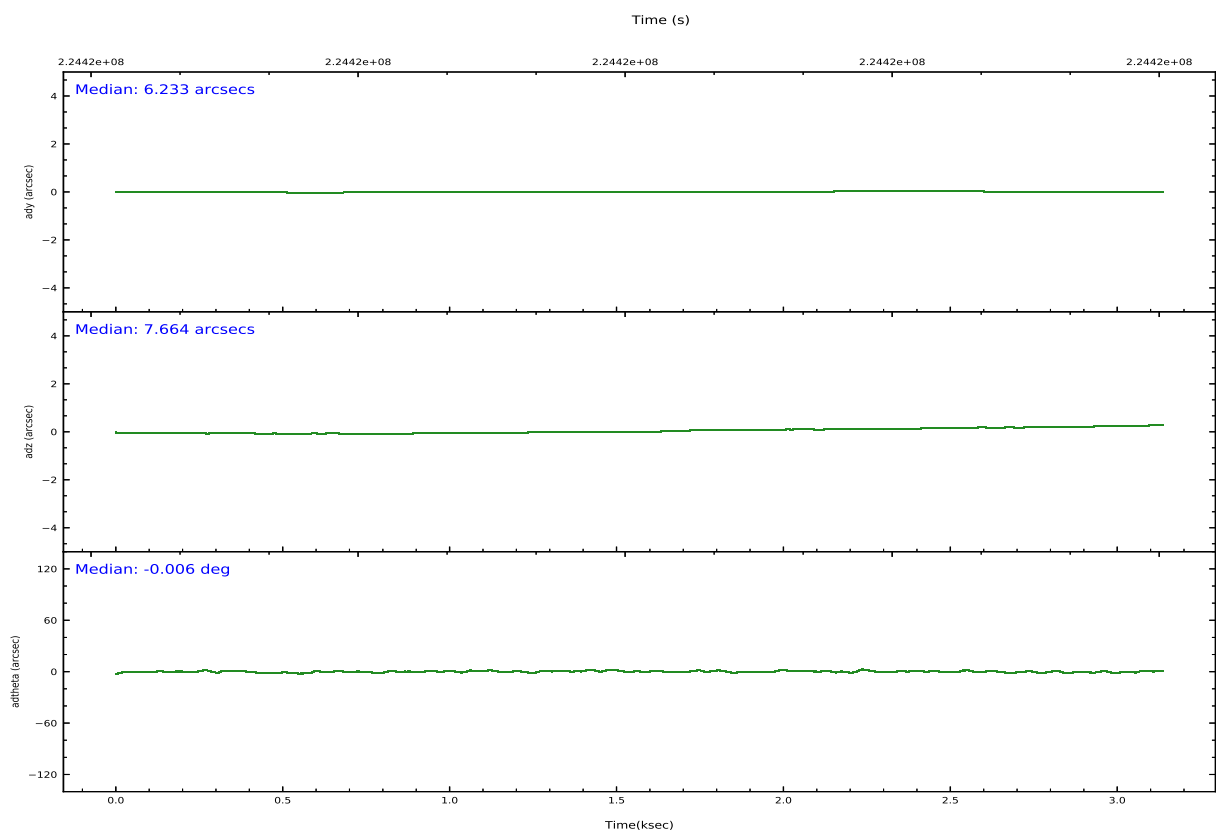
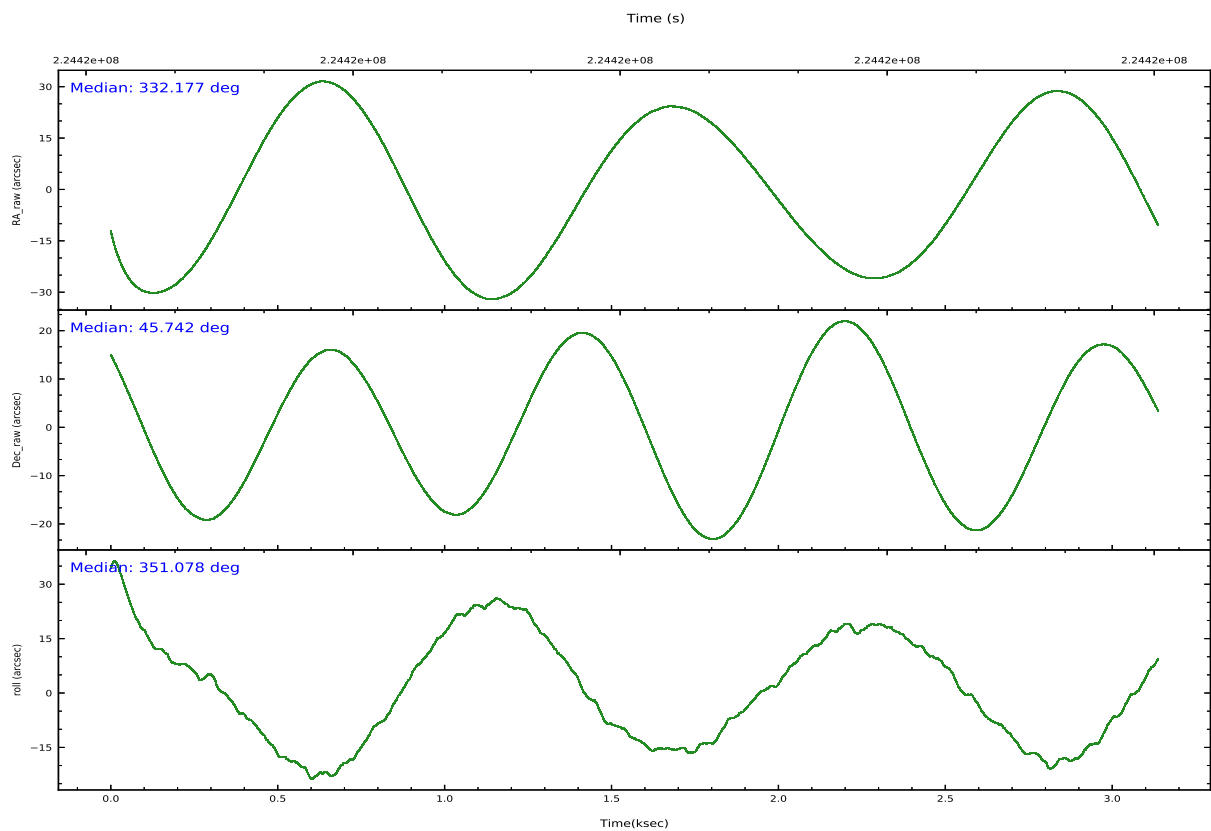
2.2 Compared Parameters

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	332.139139	332.17390435528
[deg] Pointing Dec	45.729849	45.739496862101
[deg] Pointing Roll	351.039167	351.0777251356
[s] Window start time (MET)	223603264.184000	223603264.184000
[s] Window stop time (MET)	231206464.184000	231206464.184000
[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)	224420213.184000	224419081.63225
Observation start date	2005-02-10T10:55:49	2005-02-10T10:38:01
[s] Observation end time (MET)	224423213.184000	224423346.65744
Observation end date	2005-02-10T11:45:49	2005-02-10T11:49:06

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

2.3 Aspect



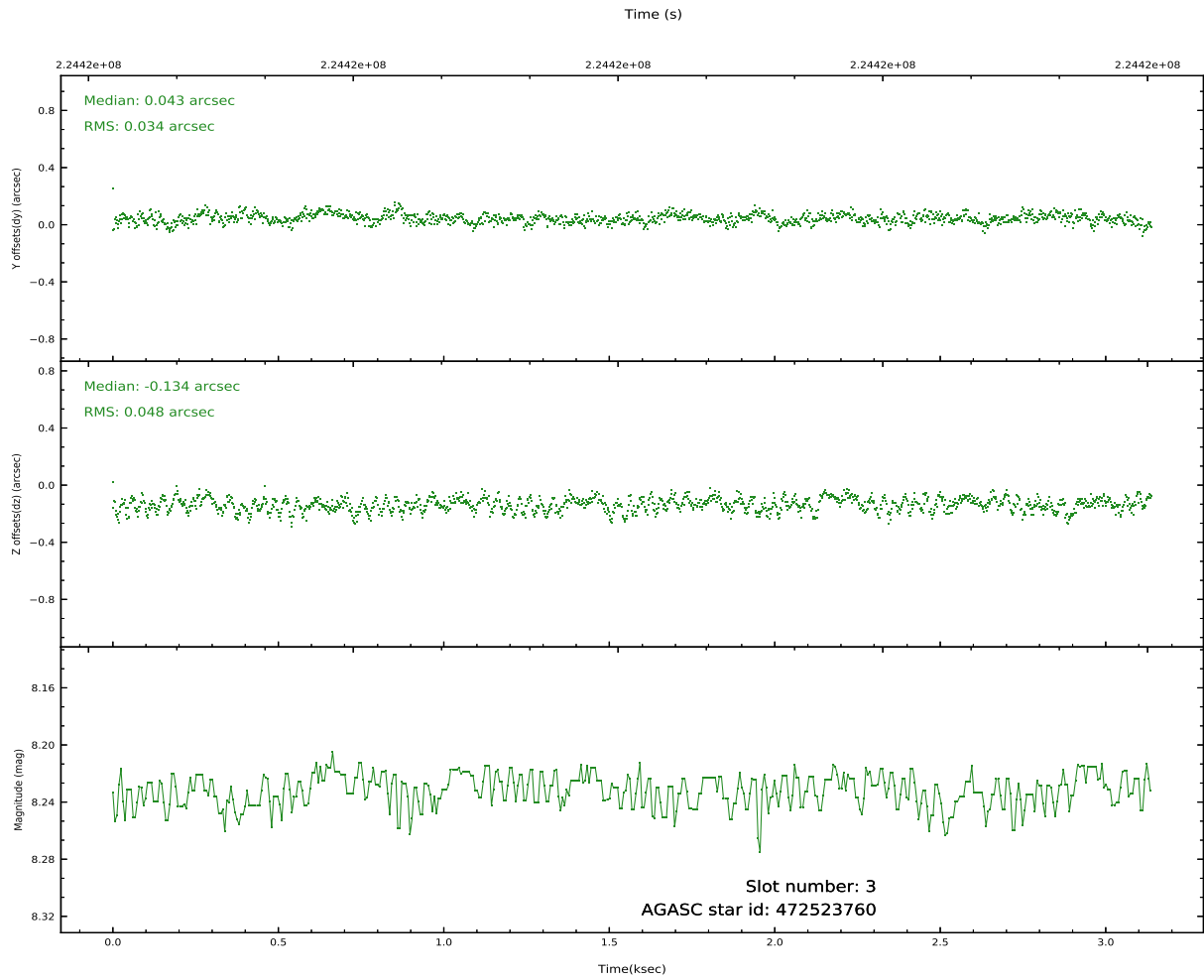
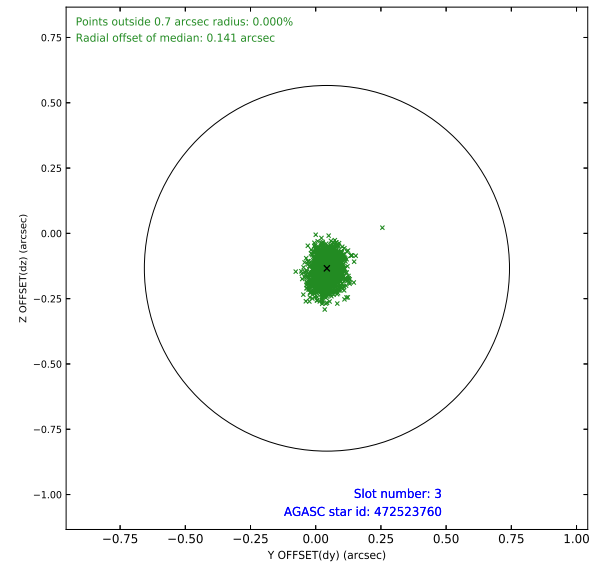
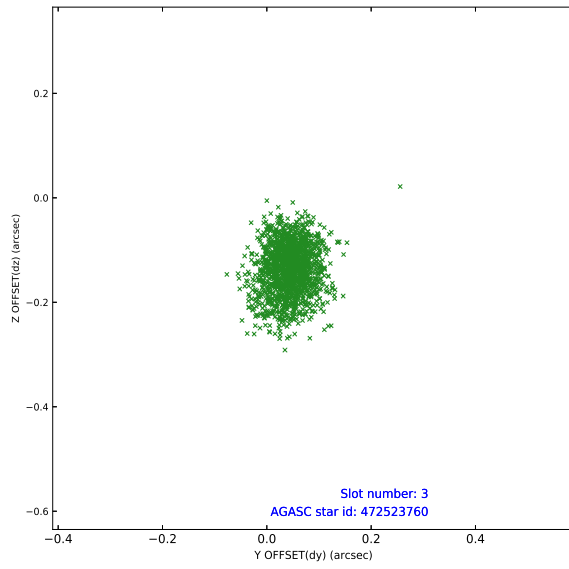


Slot Statistics

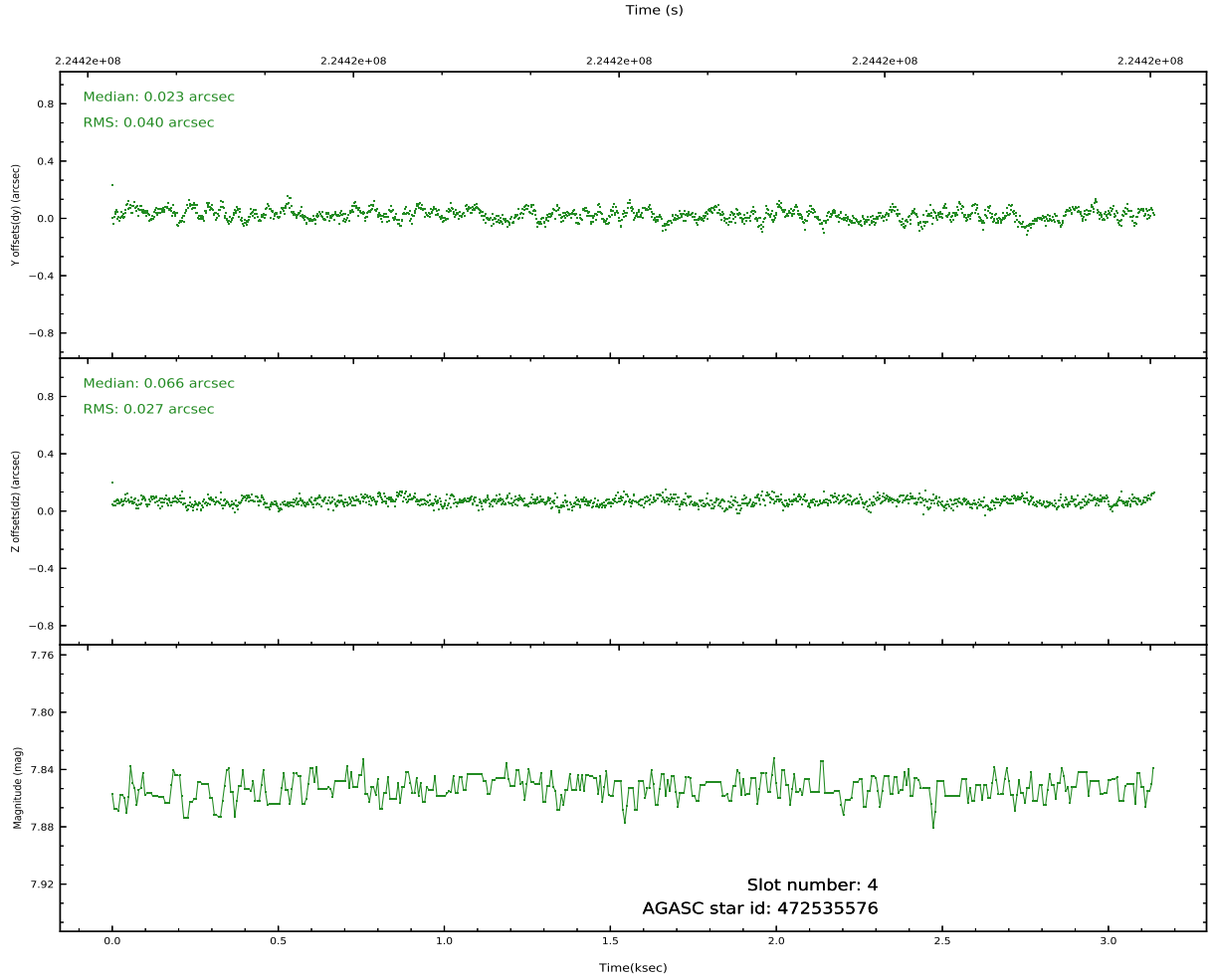
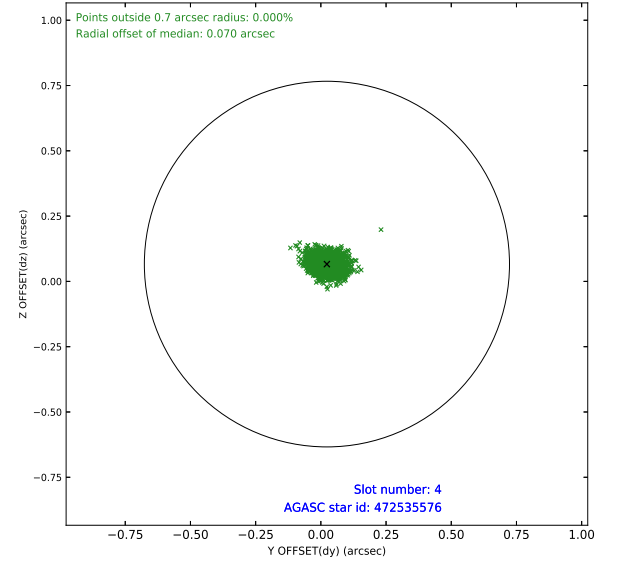
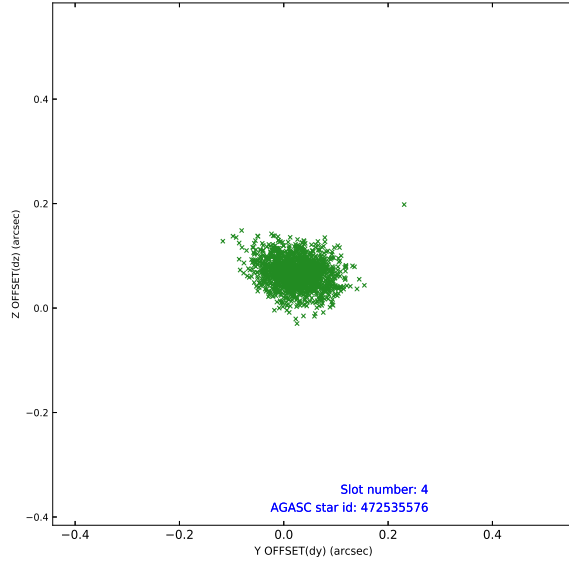
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	765	1.000	0.043	-0.128	0.005	0.009	0.000000	0.000000	-1160.43	-456
1	FID		HRC-S-2	7.04	766	1.000	0.165	-0.171	0.009	0.017	0.000000	0.000000	1237.86	-449
2	FID		HRC-S-4	6.99	766	1.000	0.196	-0.003	0.008	0.015	0.000000	0.000000	1239.55	575
3	GUIDE	used	472523760	8.23	1532	1.000	0.043	-0.134	0.062	0.101	331.645363	45.403260	-1050.69	-1352
4	GUIDE	used	472535576	7.85	1532	1.000	0.023	0.066	0.051	0.085	331.438373	46.291802	-2039.72	1733
5	GUIDE	used	472665256	9.01	1530	1.000	-0.004	0.094	0.085	0.137	332.808125	46.195041	1382.66	1922
6	GUIDE	used	472527720	6.99	1532	1.000	-0.062	-0.092	0.061	0.098	331.460205	45.112509	-1358.19	-2455
7	GUIDE	used	472536328	8.14	1530	1.000	-0.003	0.070	0.064	0.103	331.496671	46.454831	-1983.36	2334

2.4 Star Slots

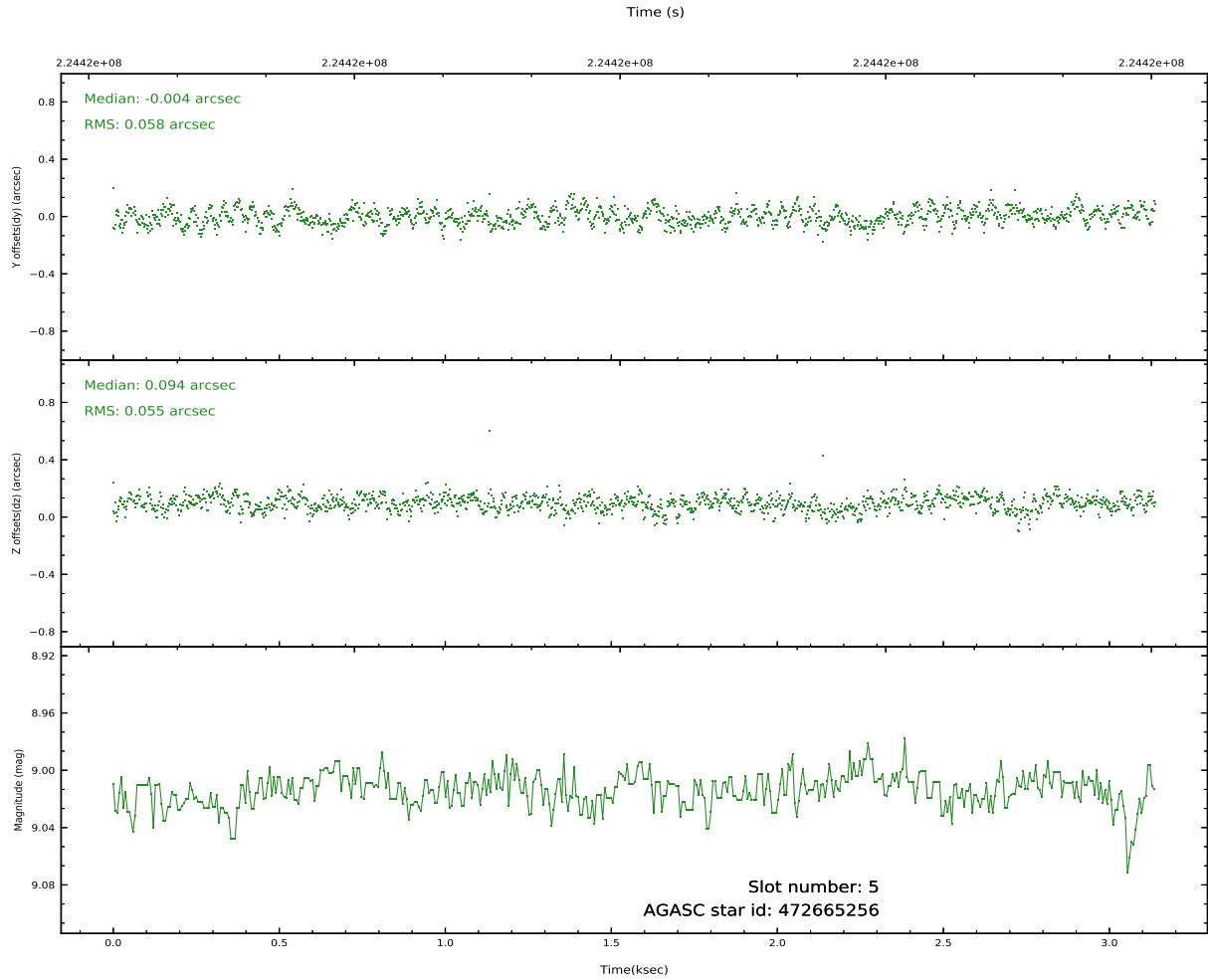
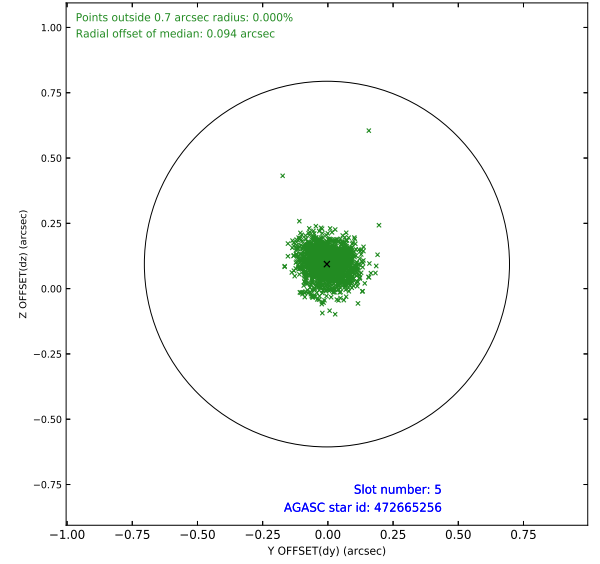
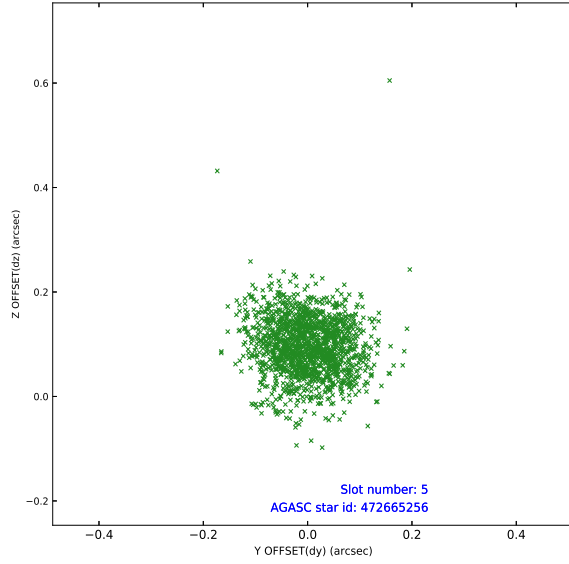
2.4.1 Slot 3



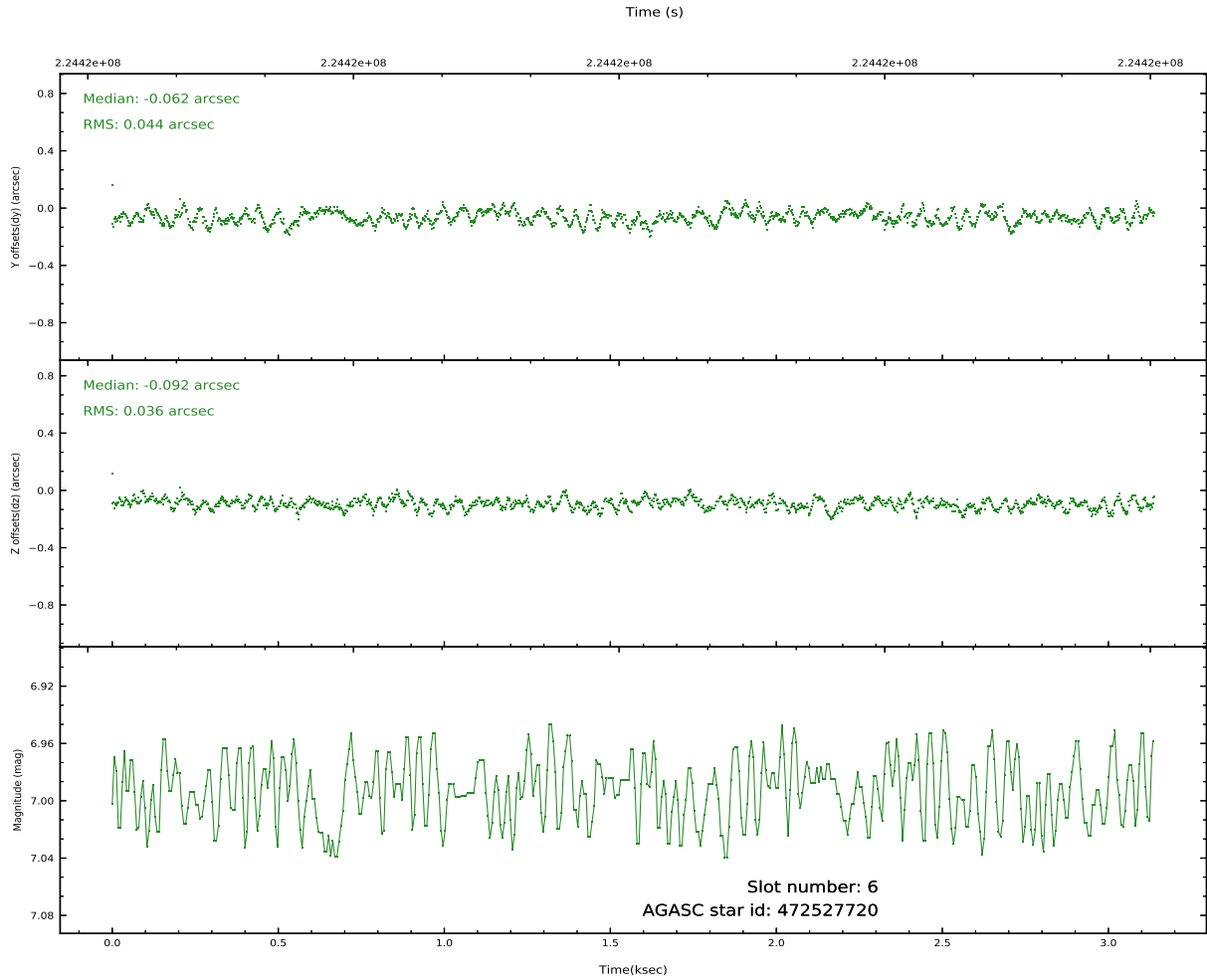
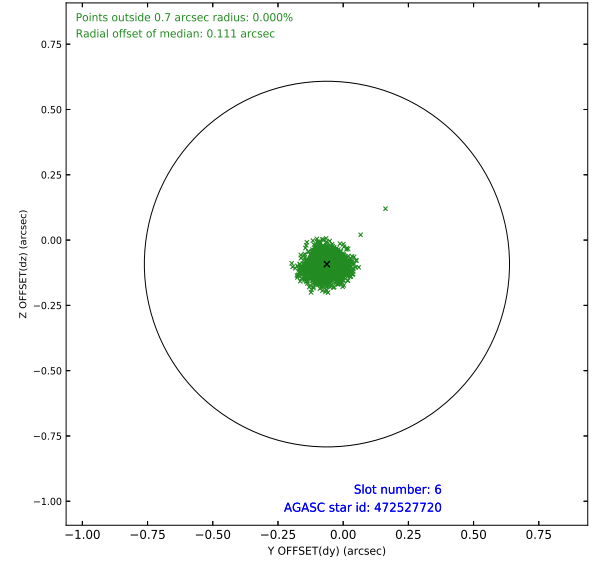
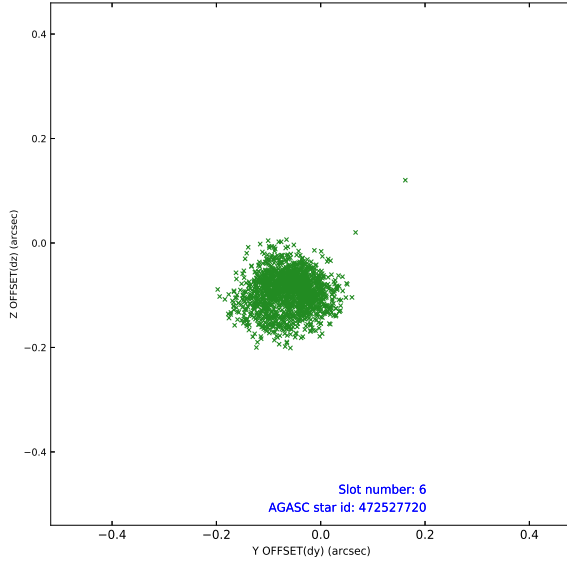
2.4.2 Slot 4



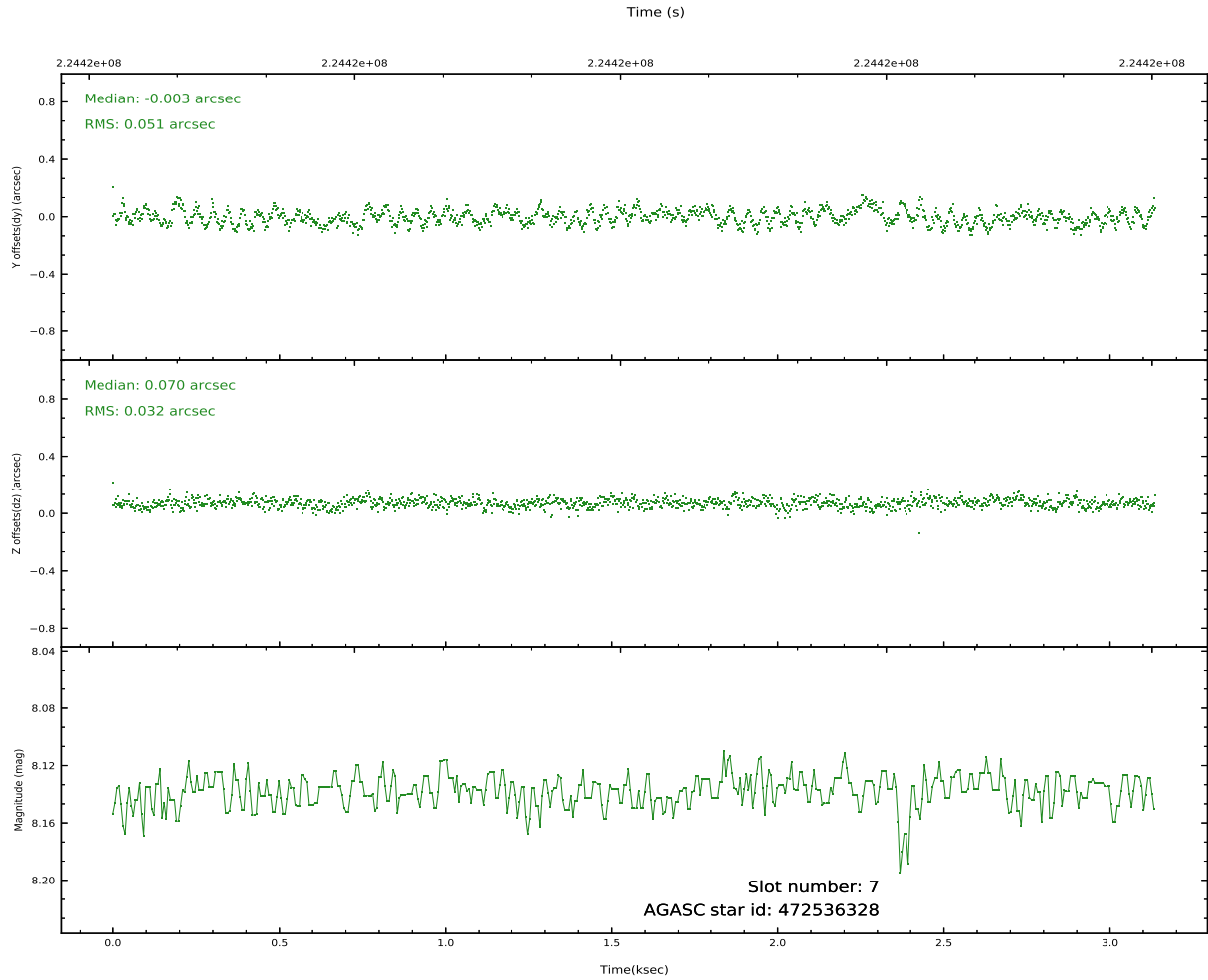
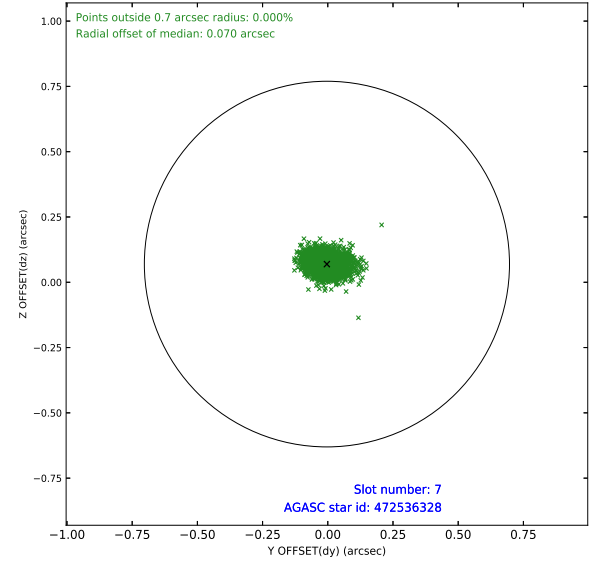
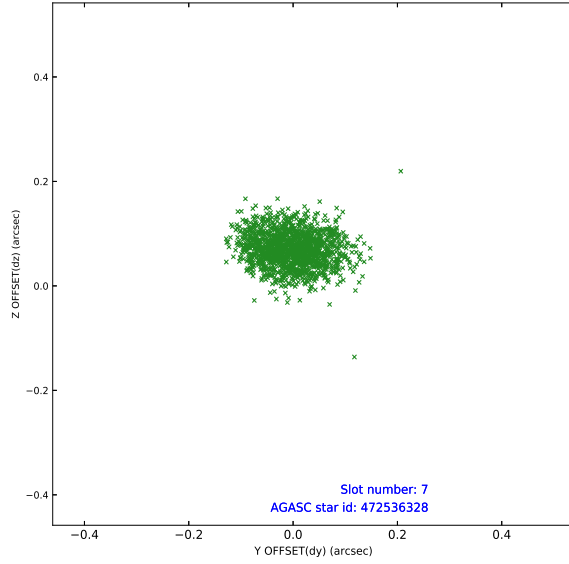
2.4.3 Slot 5



2.4.4 Slot 6

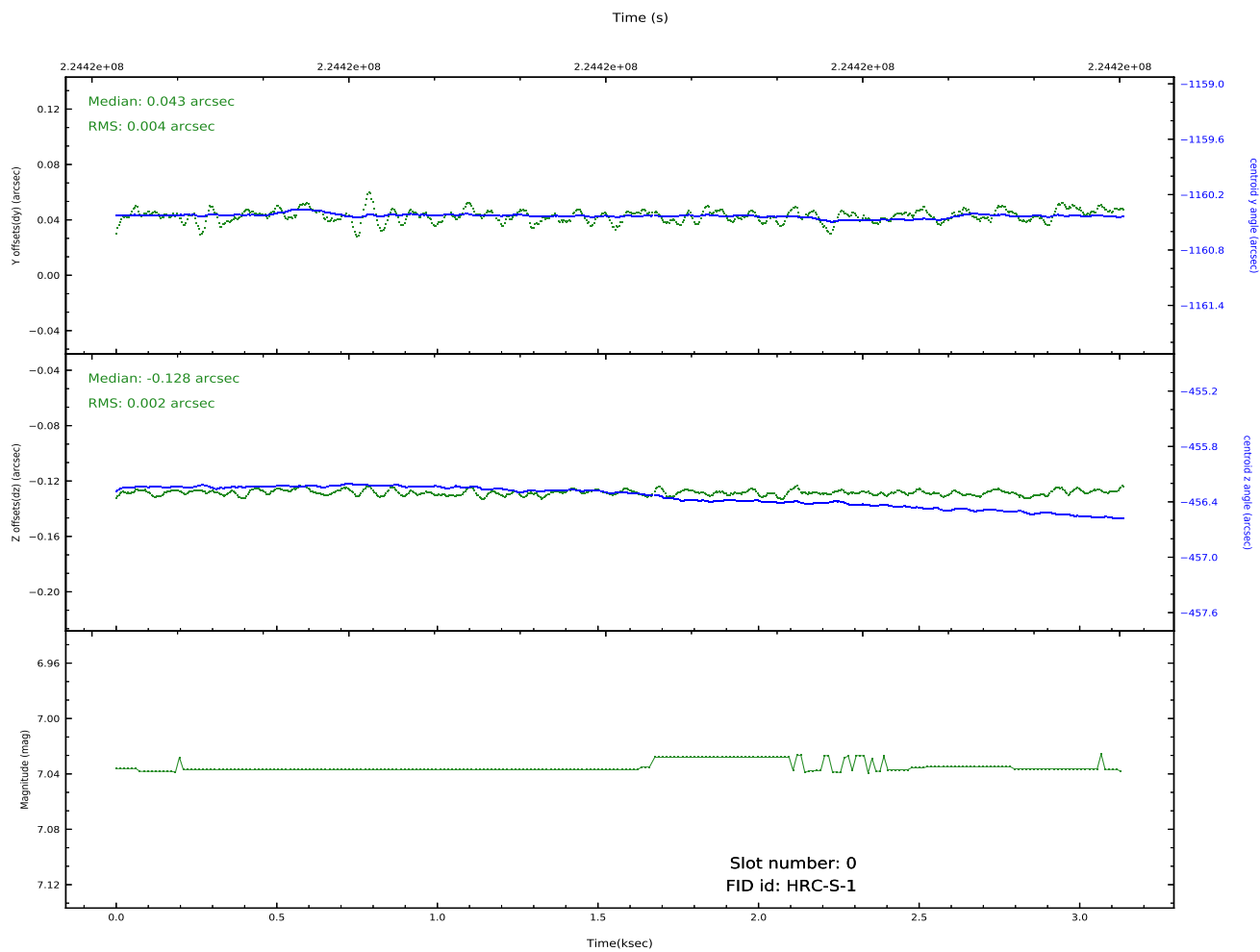
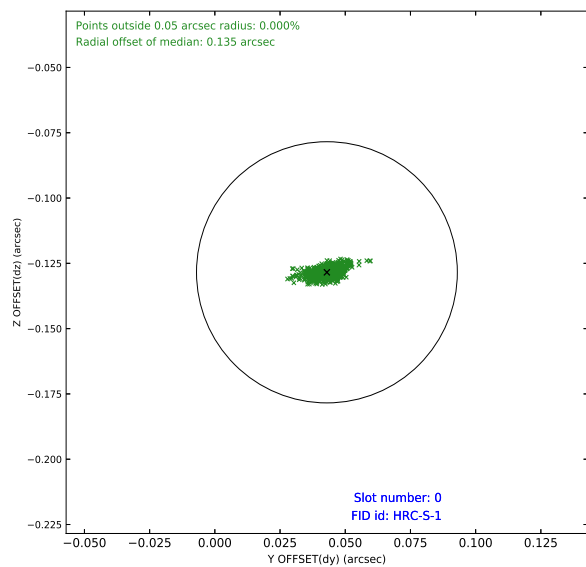
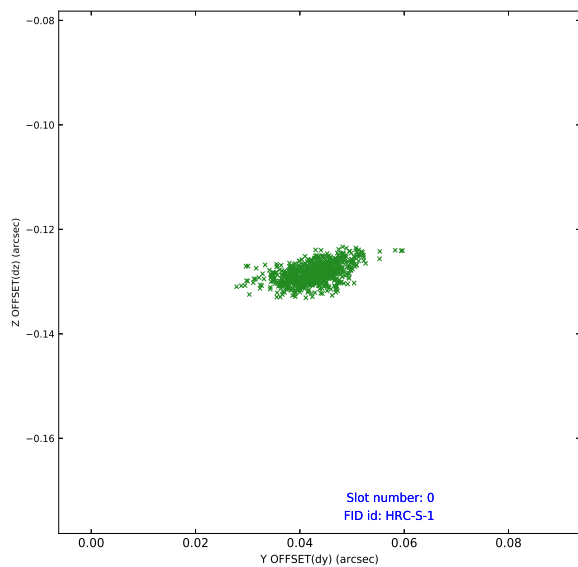


2.4.5 Slot 7

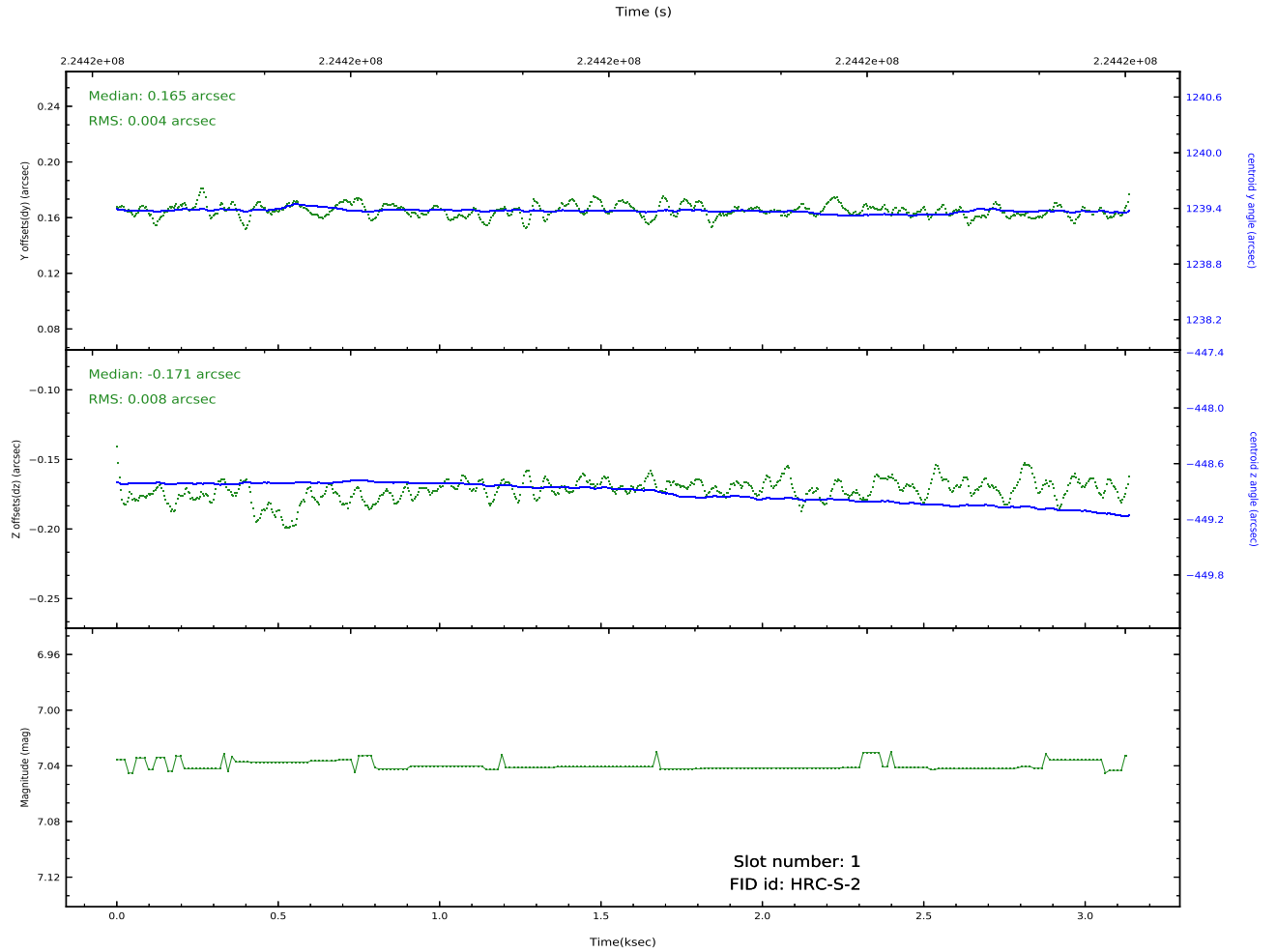
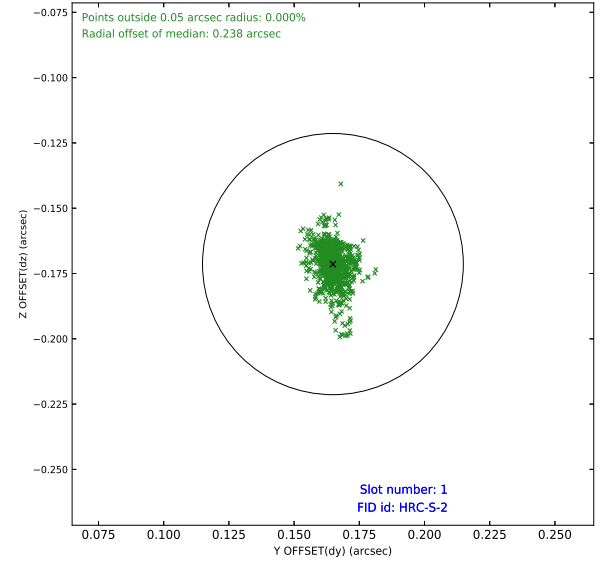
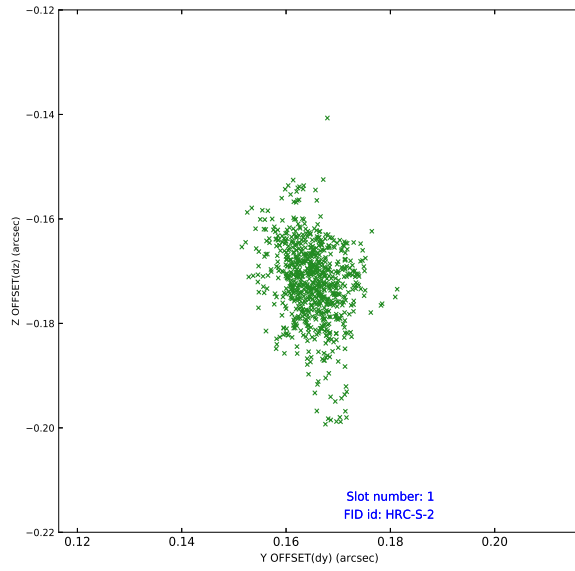


2.5 FID Slots

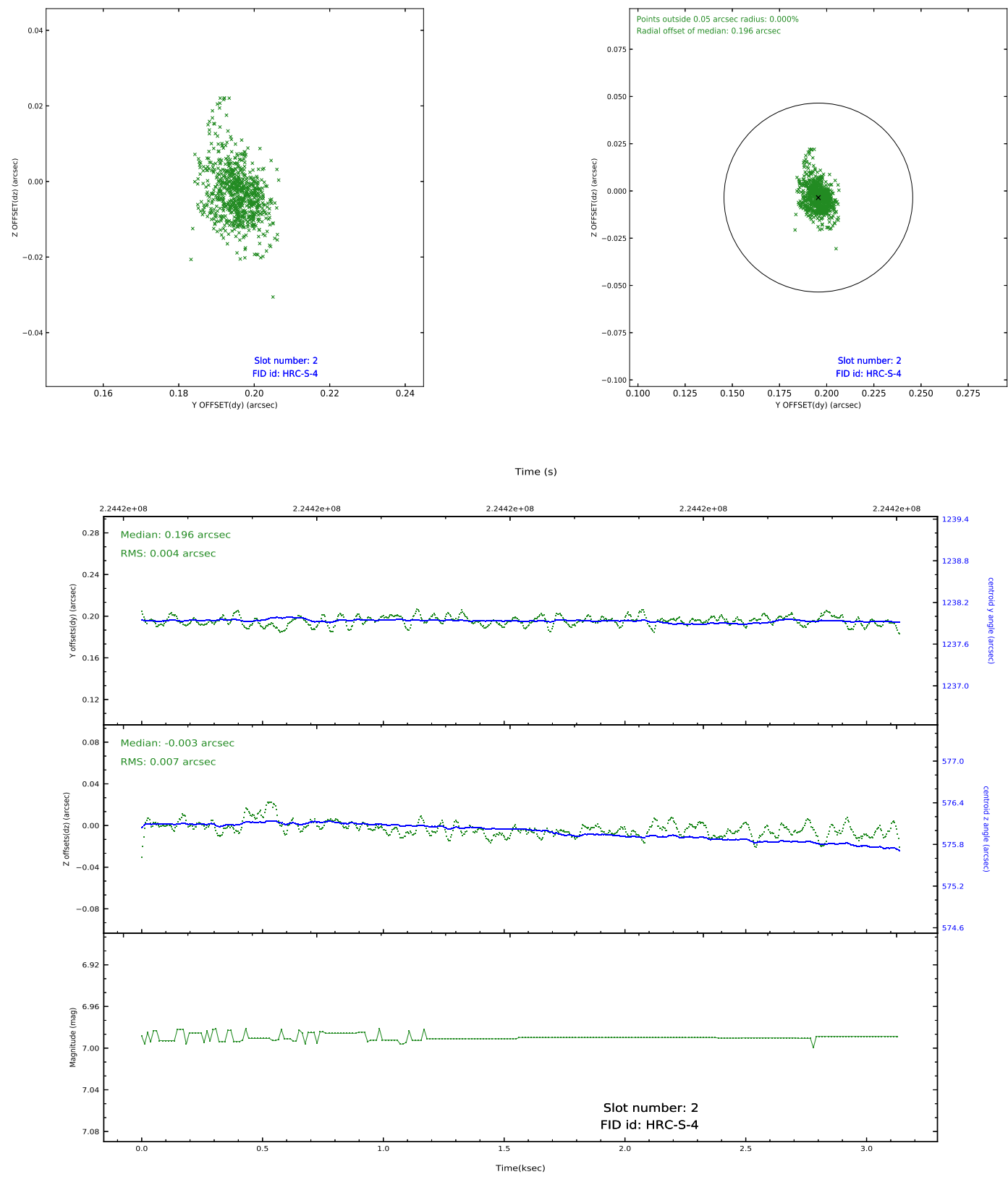
2.5.1 Slot 0



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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.137525

A.2 Comments

Window constraint met.