

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6009 - L2 Version 4
Chandra X-Ray Center

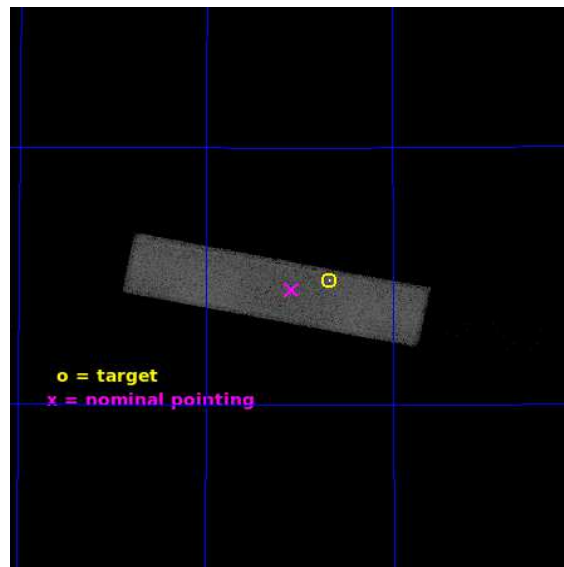
L2 Processing Date : Oct 10 2020

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1 Front

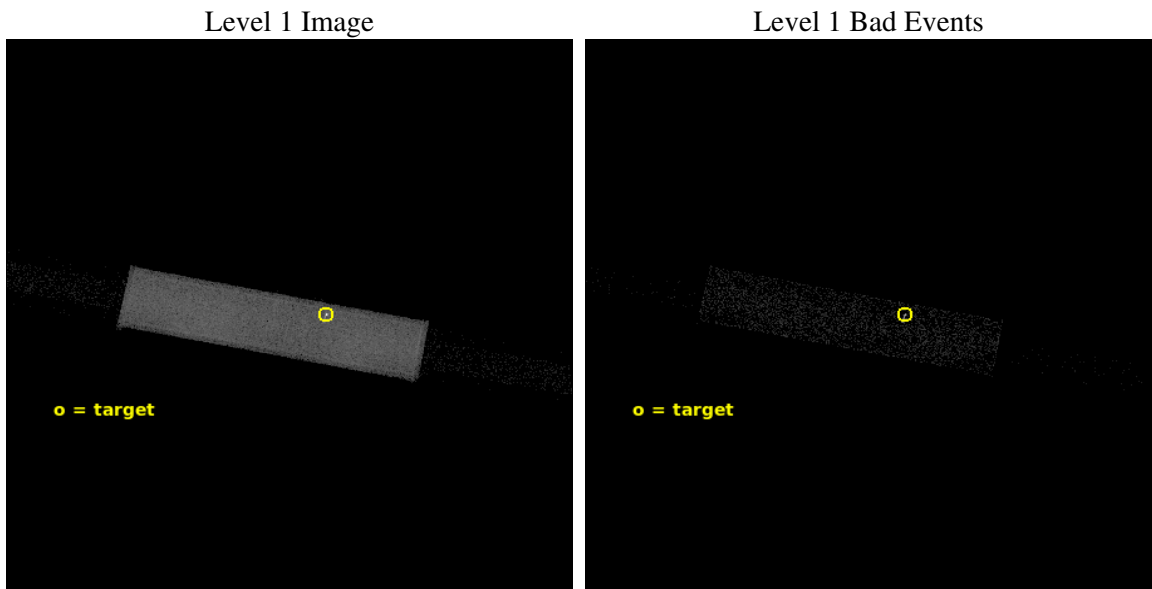
seq_num	290501	Sequence number
obs_id	6009	Observation id
title	AO6B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.26955998628	Nominal RA [deg]
dec_nom	45.723804765591	Nominal Dec [deg]
roll_nom	190.93274126911	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1151.0750528872	[s]
livetime	1138.9305864127	Ontime multiplied by DTCOR
l2events	88276	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	10.9.1	Processing system revision	ontime	1151.0750528872	[s]
caldbver	4.9.2	 	l1events	129895	Number of level 1 events
date	2020-10-10T07:42:45	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

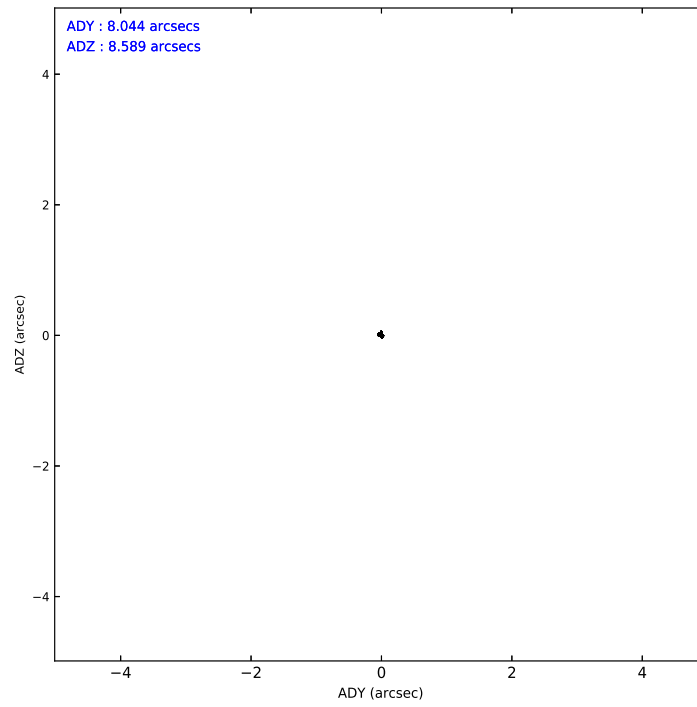
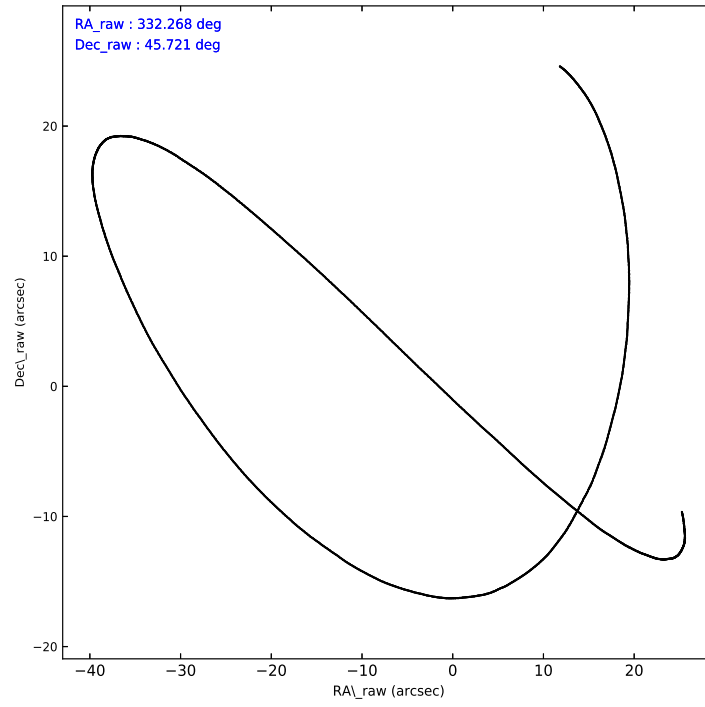
Level 1 Events

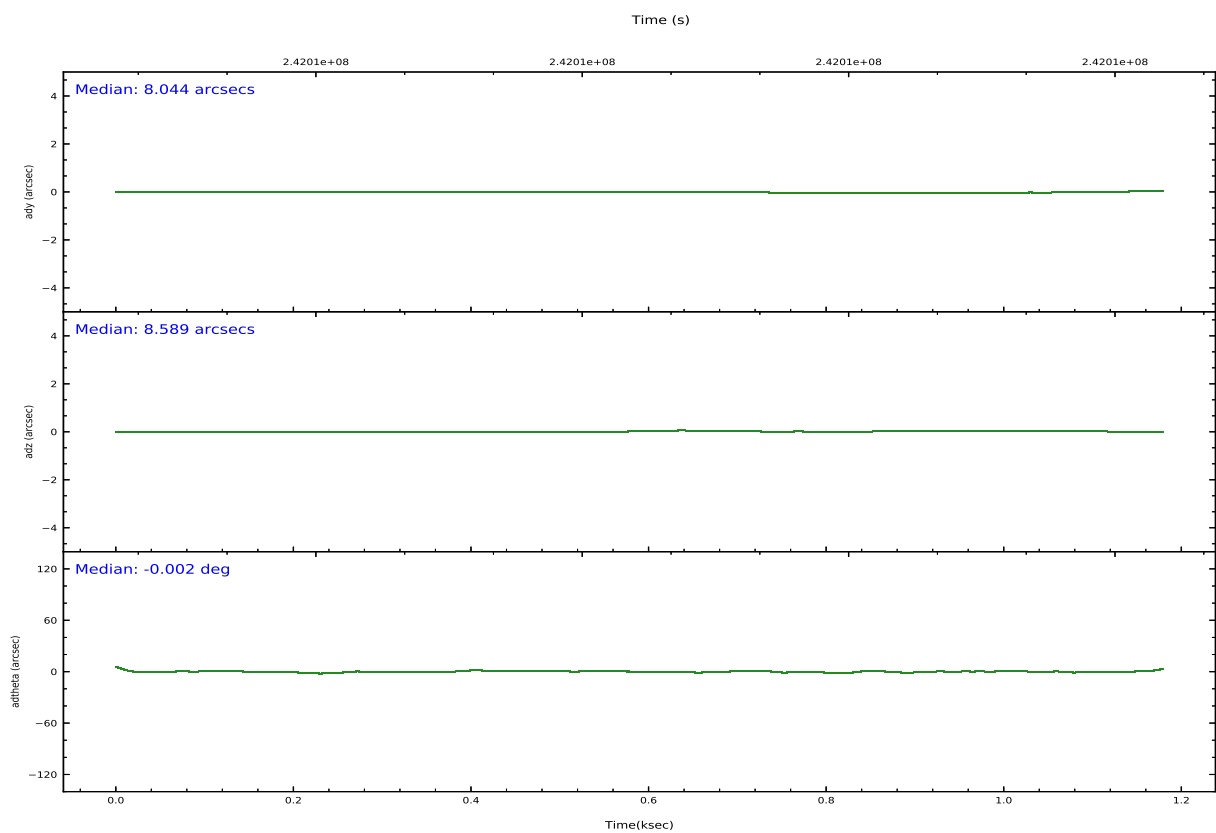
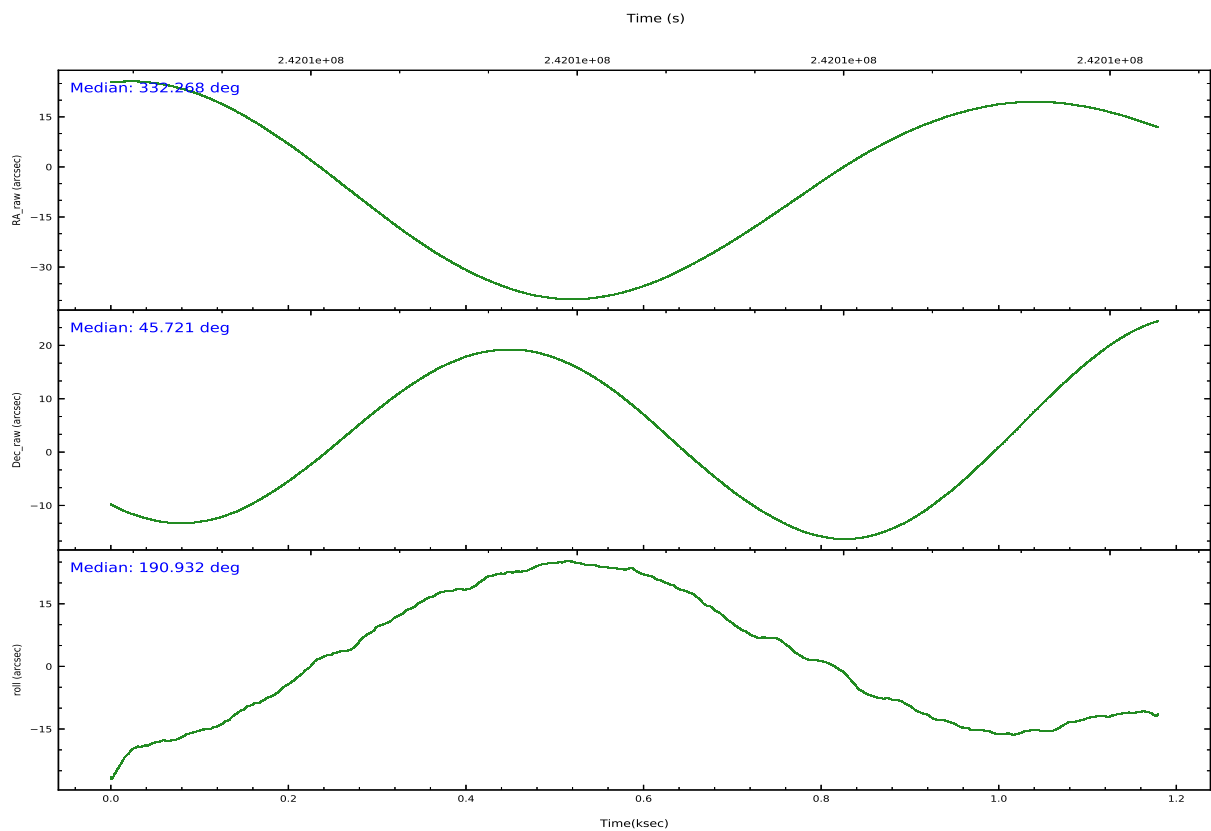
	segment 1	segment 2	segment 3
level 1 events	1149	127663	1083
rejected events	1144	25084	1033
rejected %	99%	19%	95%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar version number	8	8
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.295793	332.26955998628			
[deg] Pointing Dec	45.741219	45.723804765591			
[deg] Pointing Roll	190.849372	190.93274126911			
[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)	242011854.184000	242011478.25906			
Observation start date	2005-09-02T01:29:50	2005-09-02T01:24:38			
[s] Observation end time (MET)	242012854.184000	242012988.08413			
Observation end date	2005-09-02T01:46:30	2005-09-02T01:49:48			

2.3 Aspect



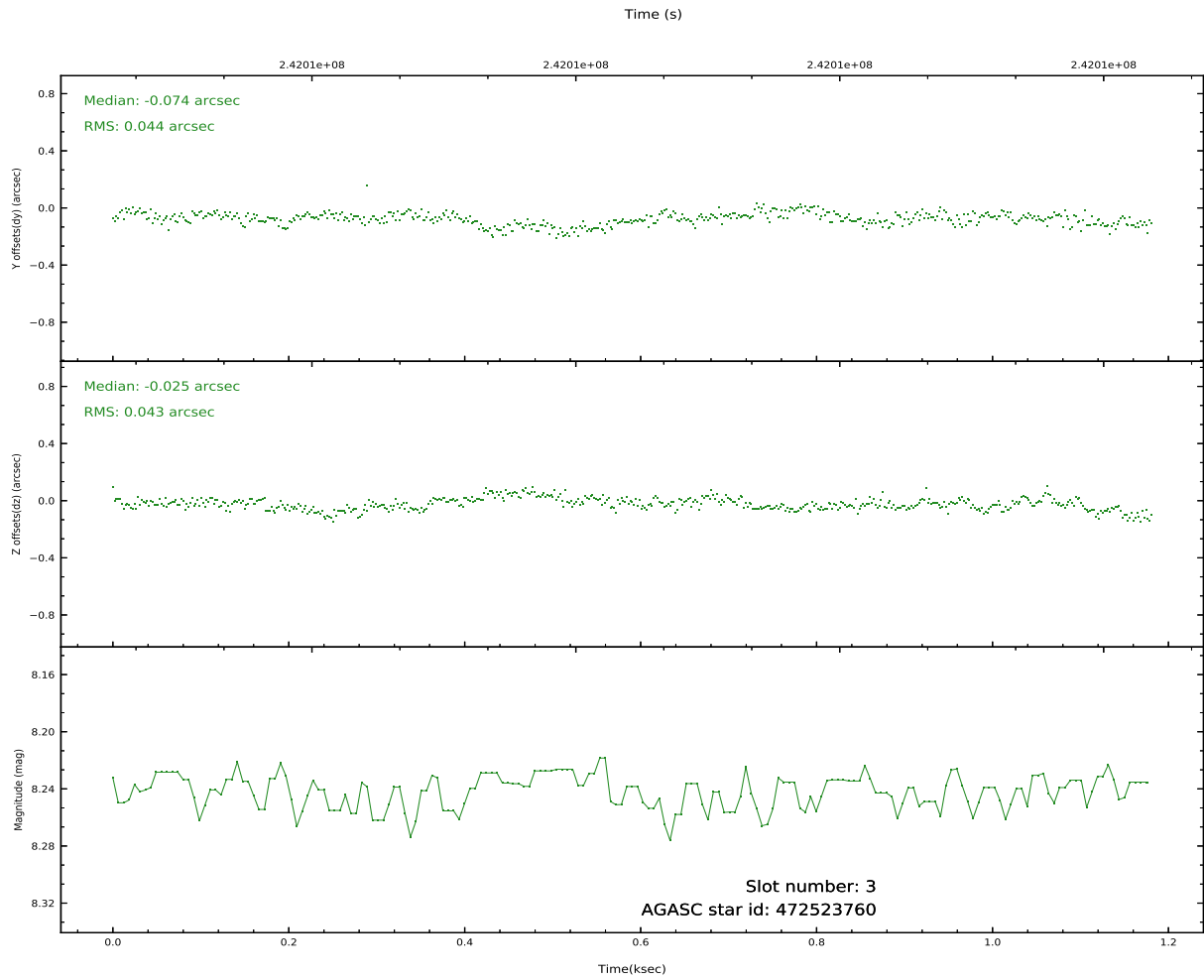
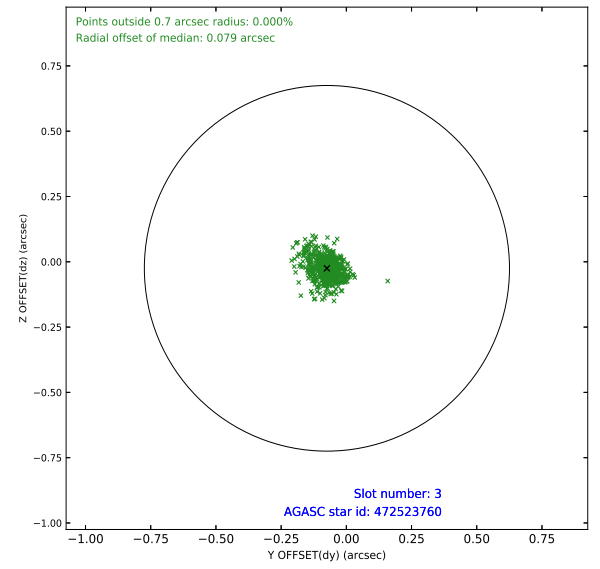
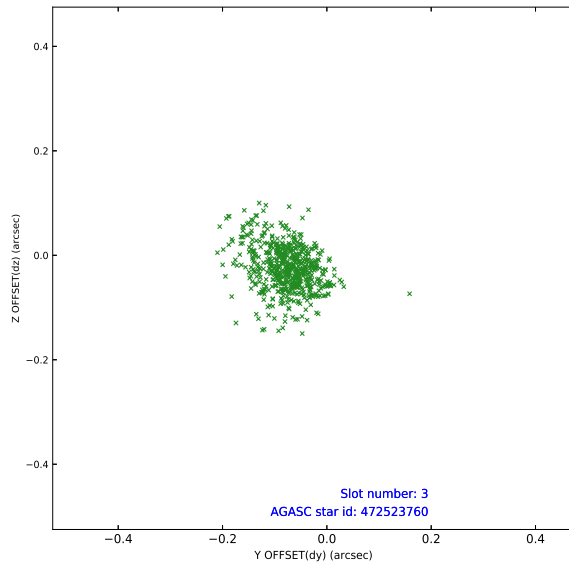


Slot Statistics

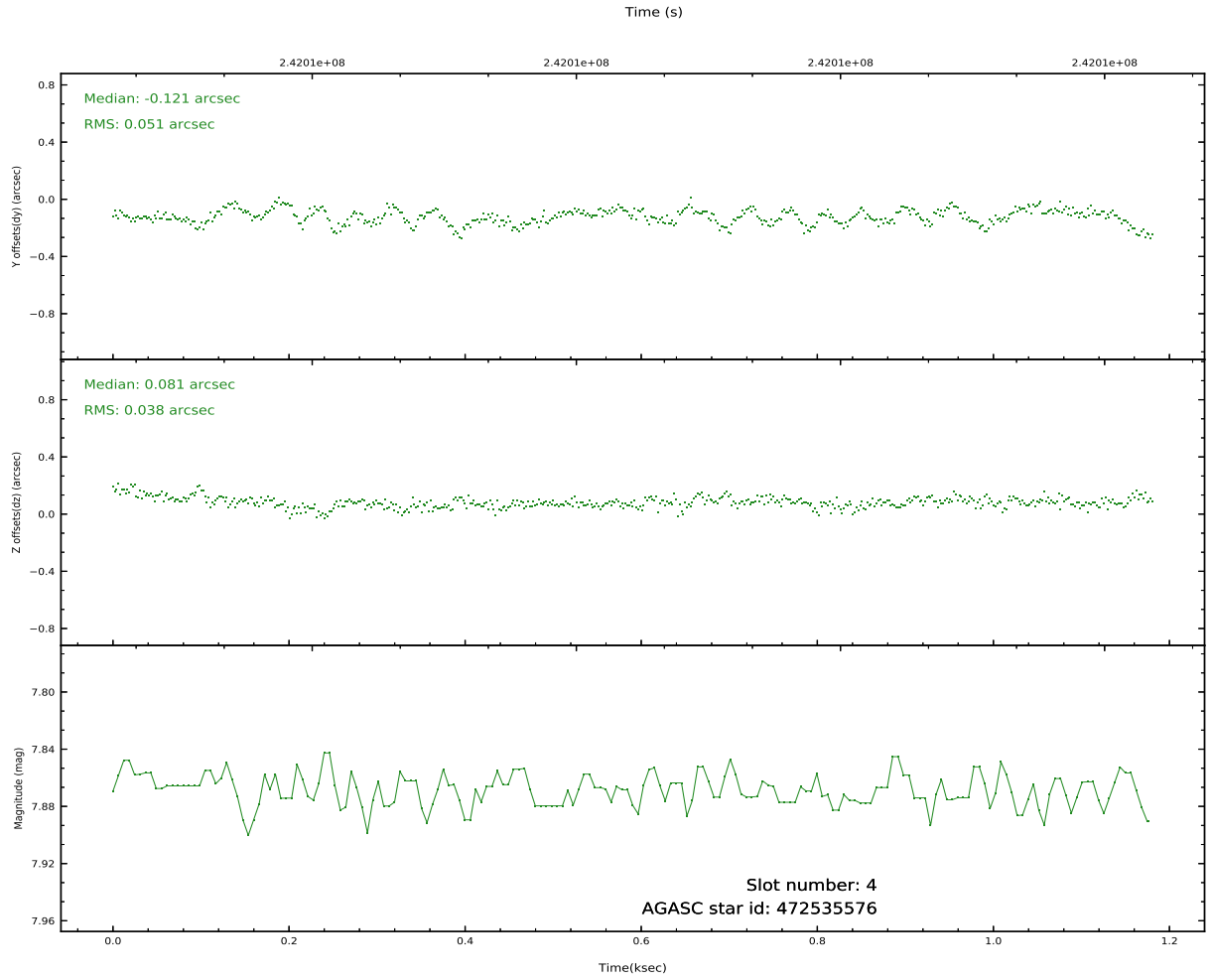
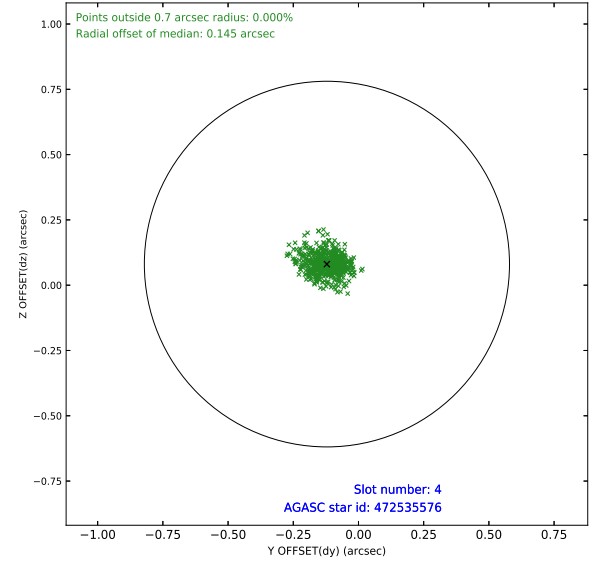
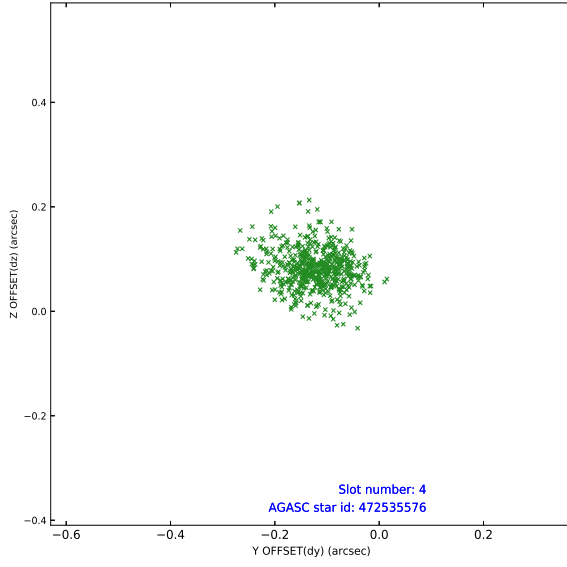
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-2	7.03	288	1.000	0.133	-0.113	0.008	0.015	0.000000	0.000000	1237.46	-449
1	FID		HRC-S-3	7.04	289	1.000	0.018	-0.099	0.004	0.010	0.000000	0.000000	-1160.76	570
2	FID		HRC-S-4	7.02	288	1.000	0.254	-0.083	0.008	0.017	0.000000	0.000000	1232.15	576
3	GUIDE	used	472523760	8.24	577	1.000	-0.074	-0.025	0.064	0.116	331.645363	45.403260	1844.22	877
4	GUIDE	used	472535576	7.87	577	1.000	-0.121	0.081	0.068	0.115	331.438373	46.291802	1724.87	-2359
5	GUIDE	used	472655152	9.45	574	1.000	0.136	-0.002	0.125	0.219	332.504239	45.862991	-590.68	-339
6	GUIDE	used	472665256	9.00	577	1.000	0.104	-0.034	0.083	0.141	332.808125	46.195041	-1561.00	-1371
7	GUIDE	used	472533912	9.16	576	1.000	-0.045	-0.012	0.128	0.211	331.791136	46.368695	804.76	-2462

2.4 Star Slots

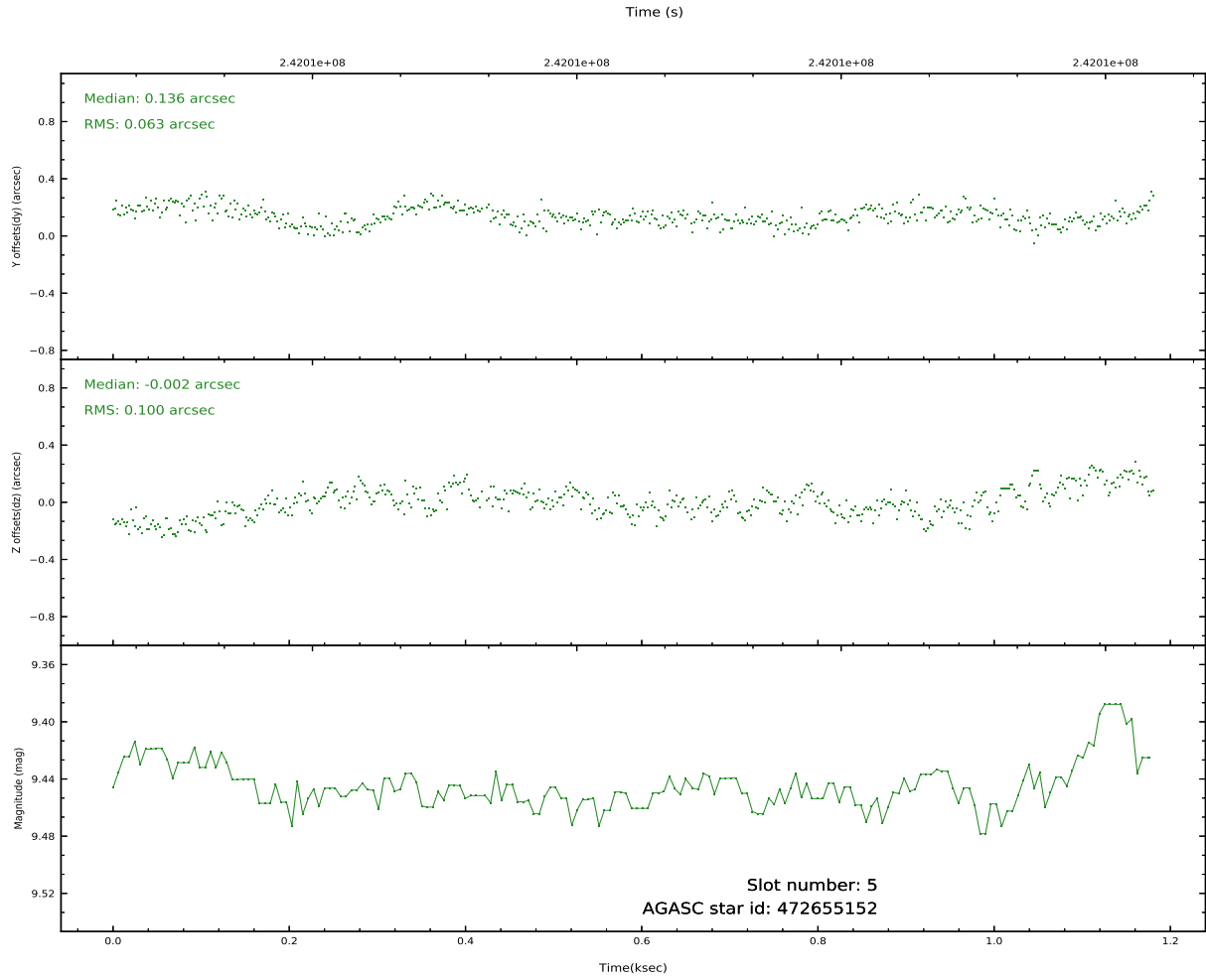
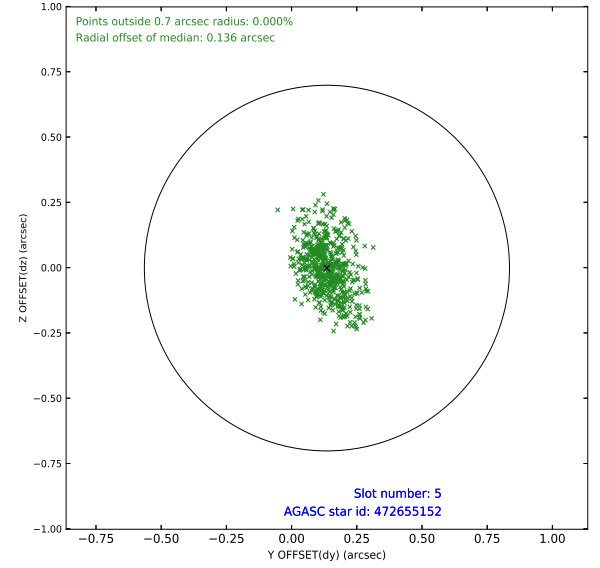
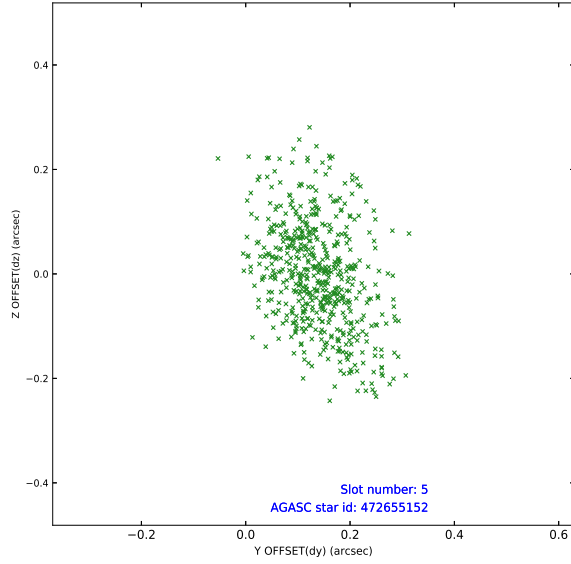
2.4.1 Slot 3



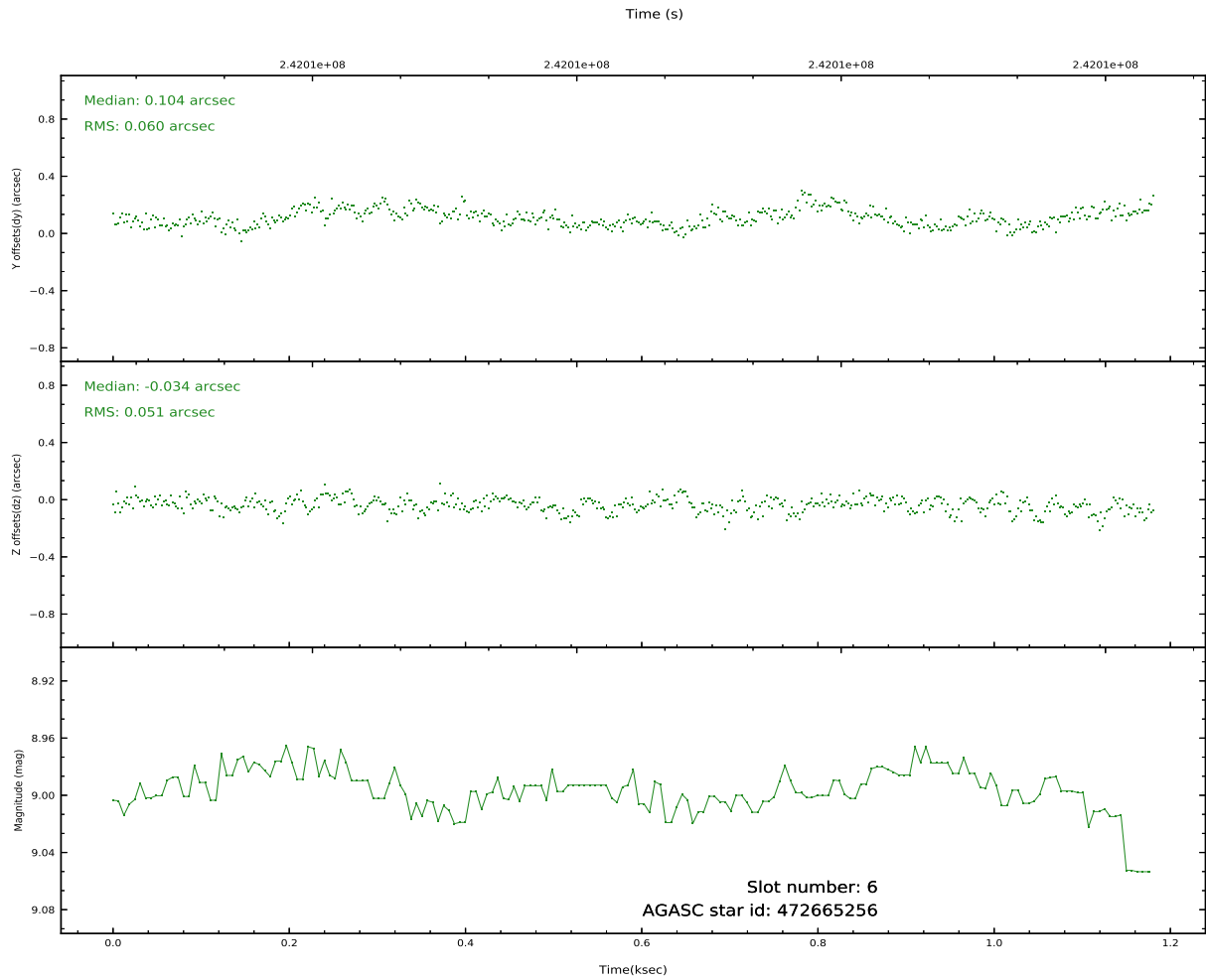
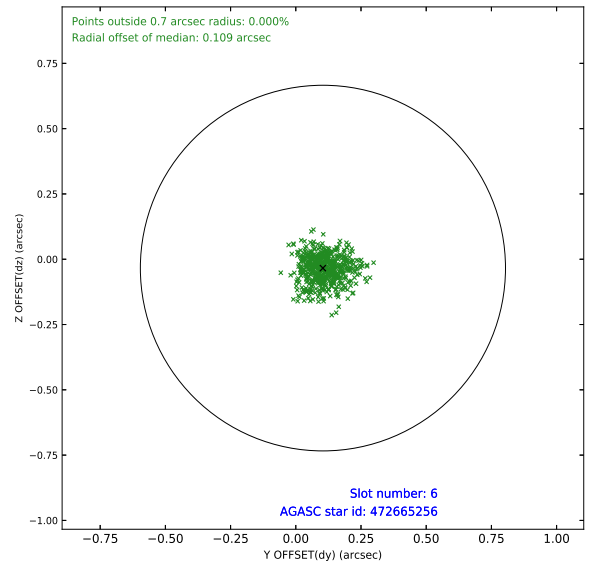
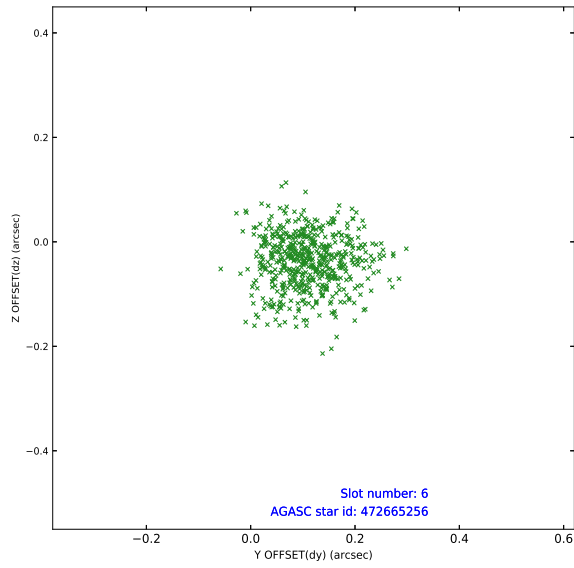
2.4.2 Slot 4



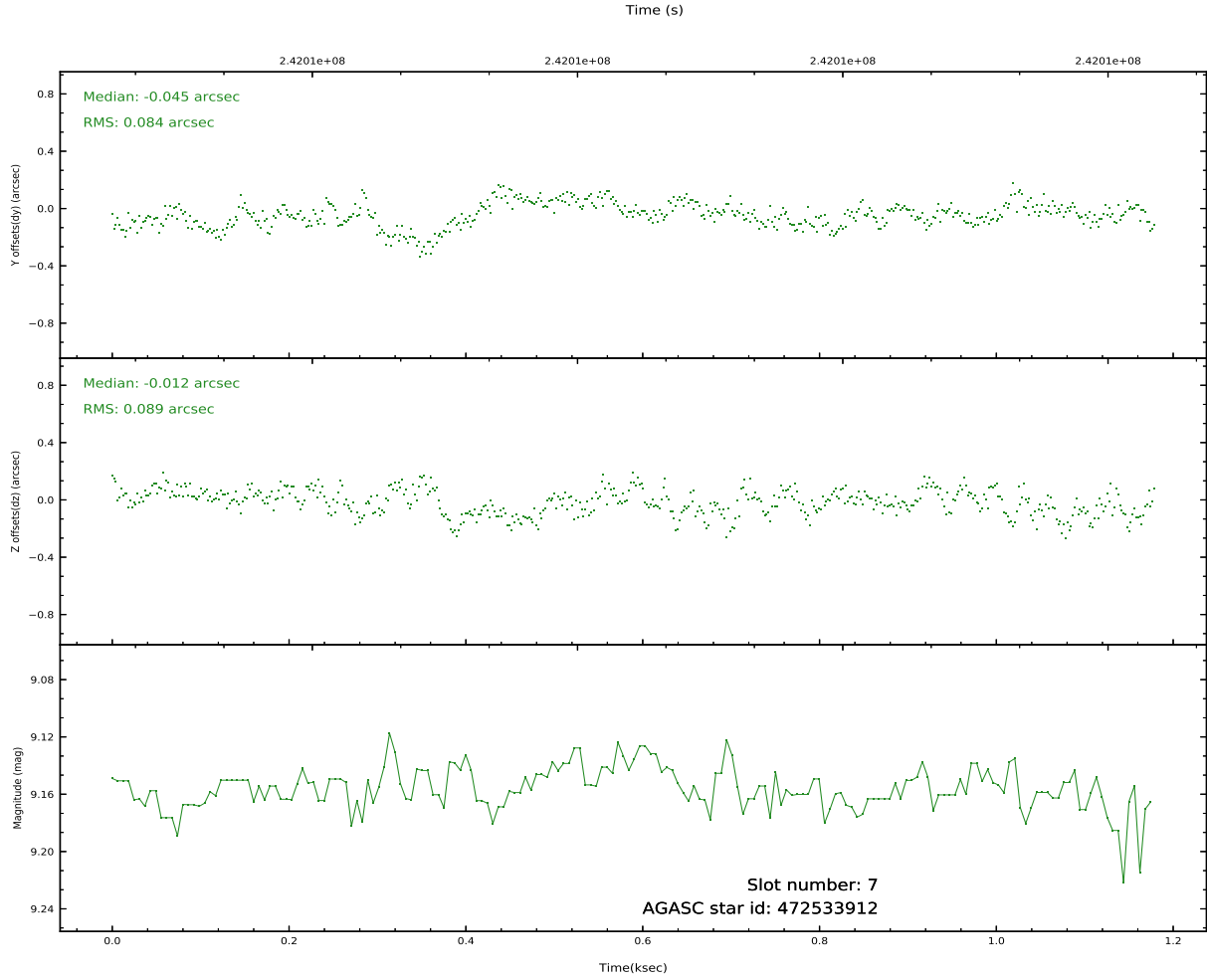
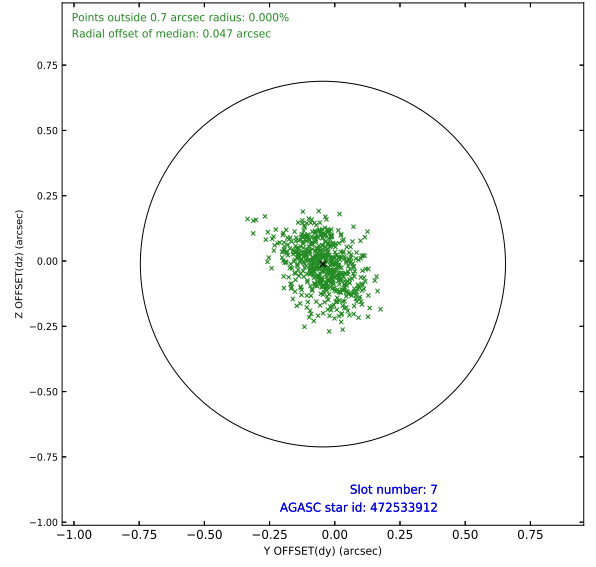
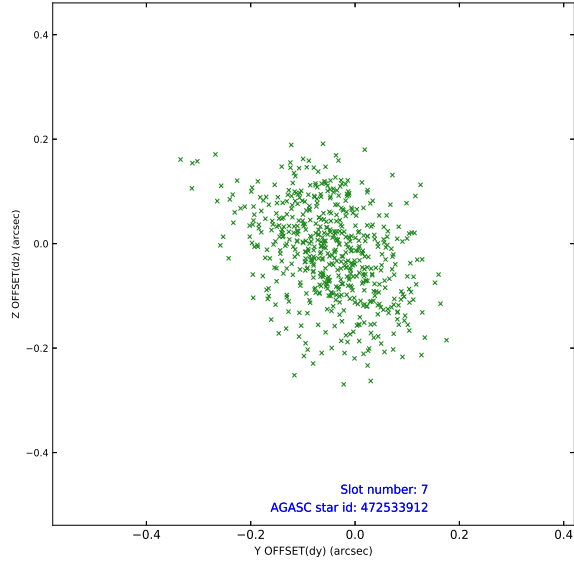
2.4.3 Slot 5



2.4.4 Slot 6

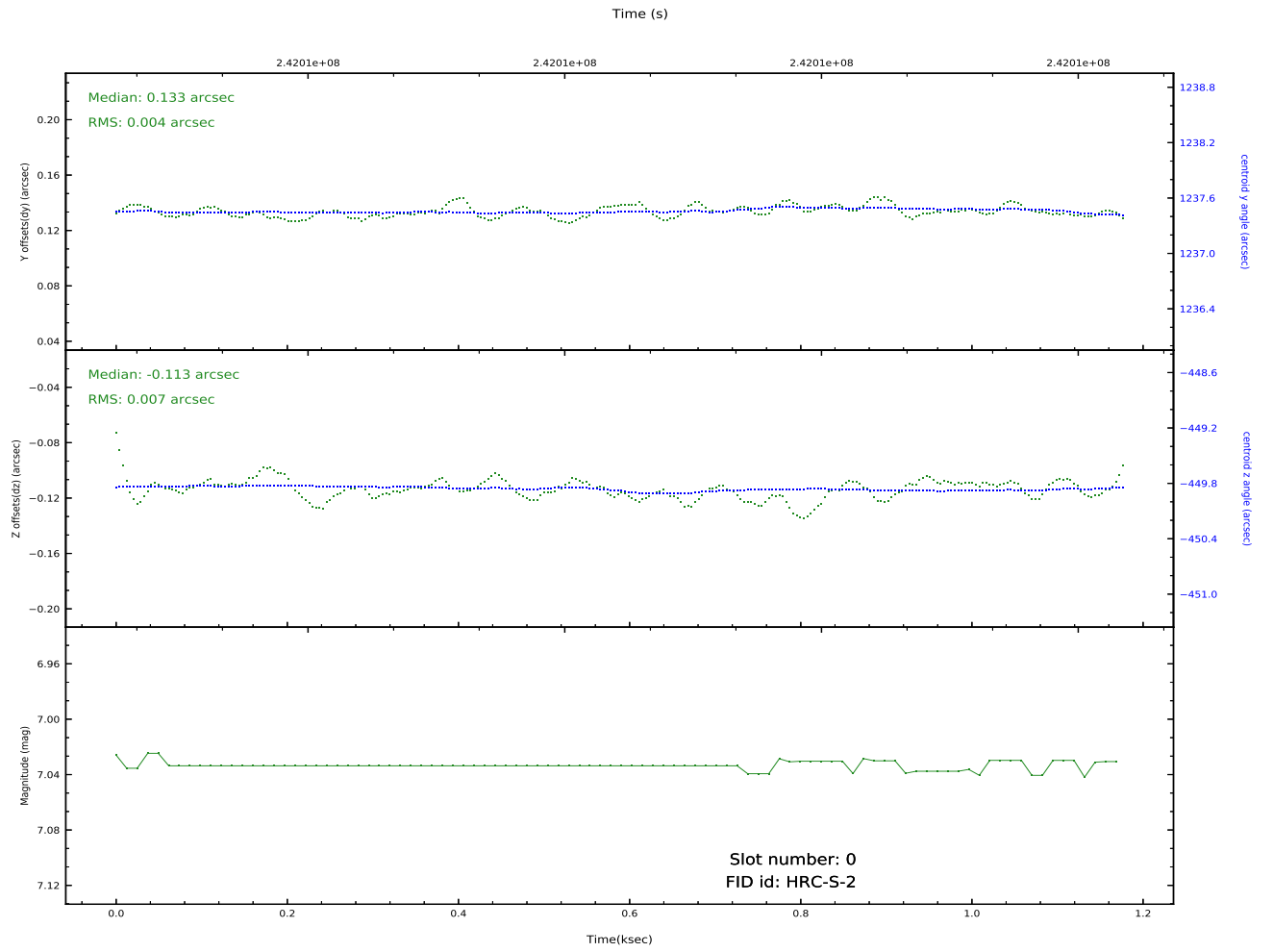
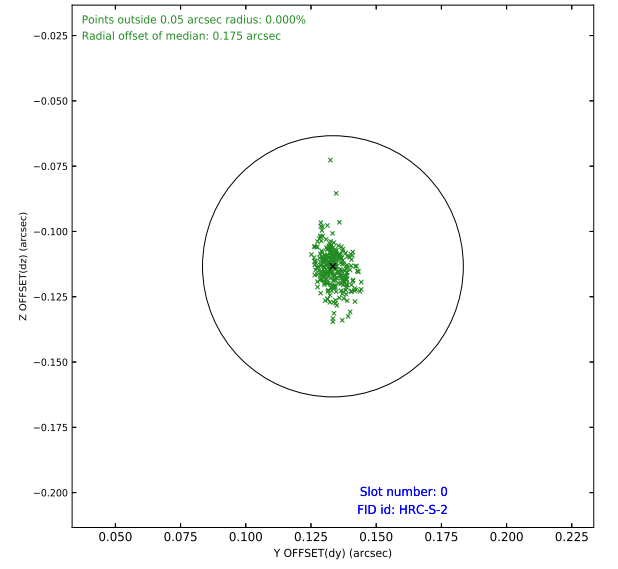
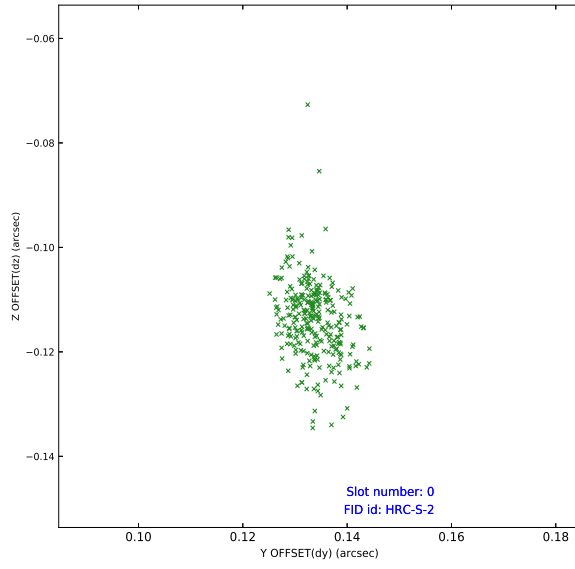


2.4.5 Slot 7

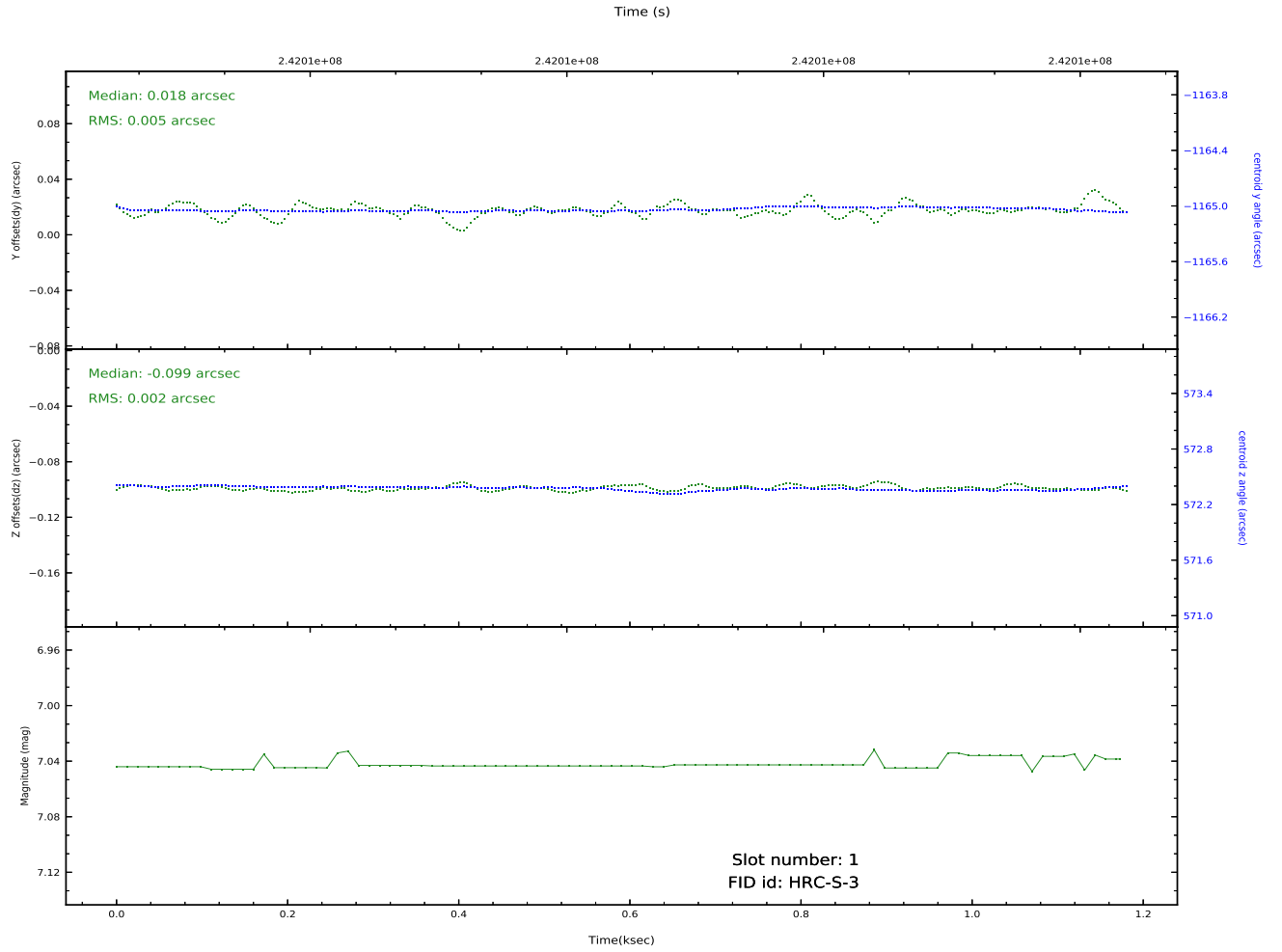
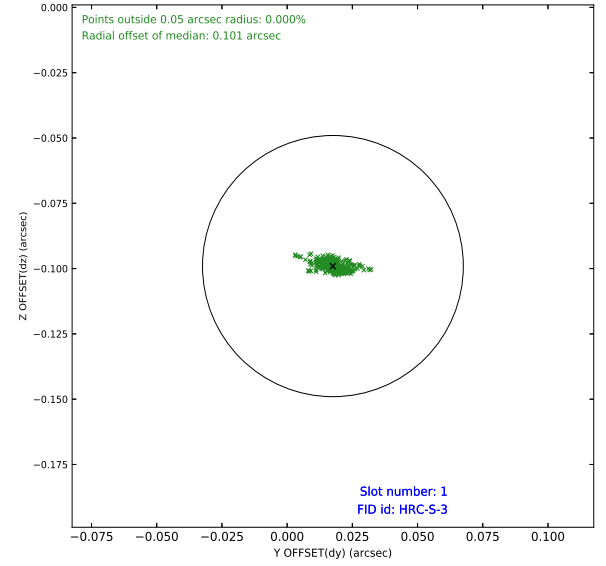
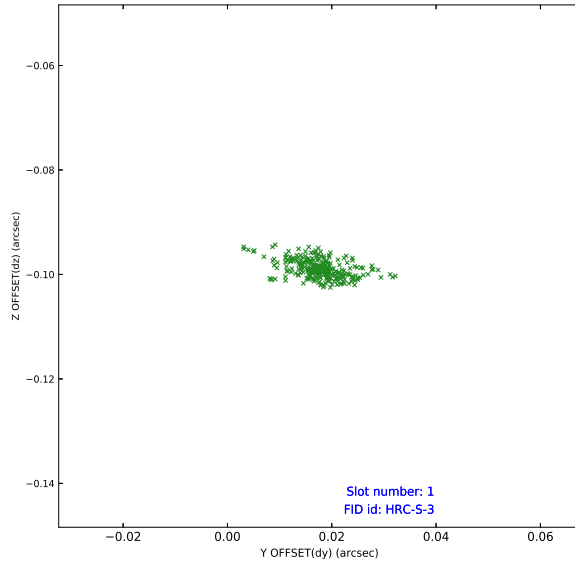


2.5 FID Slots

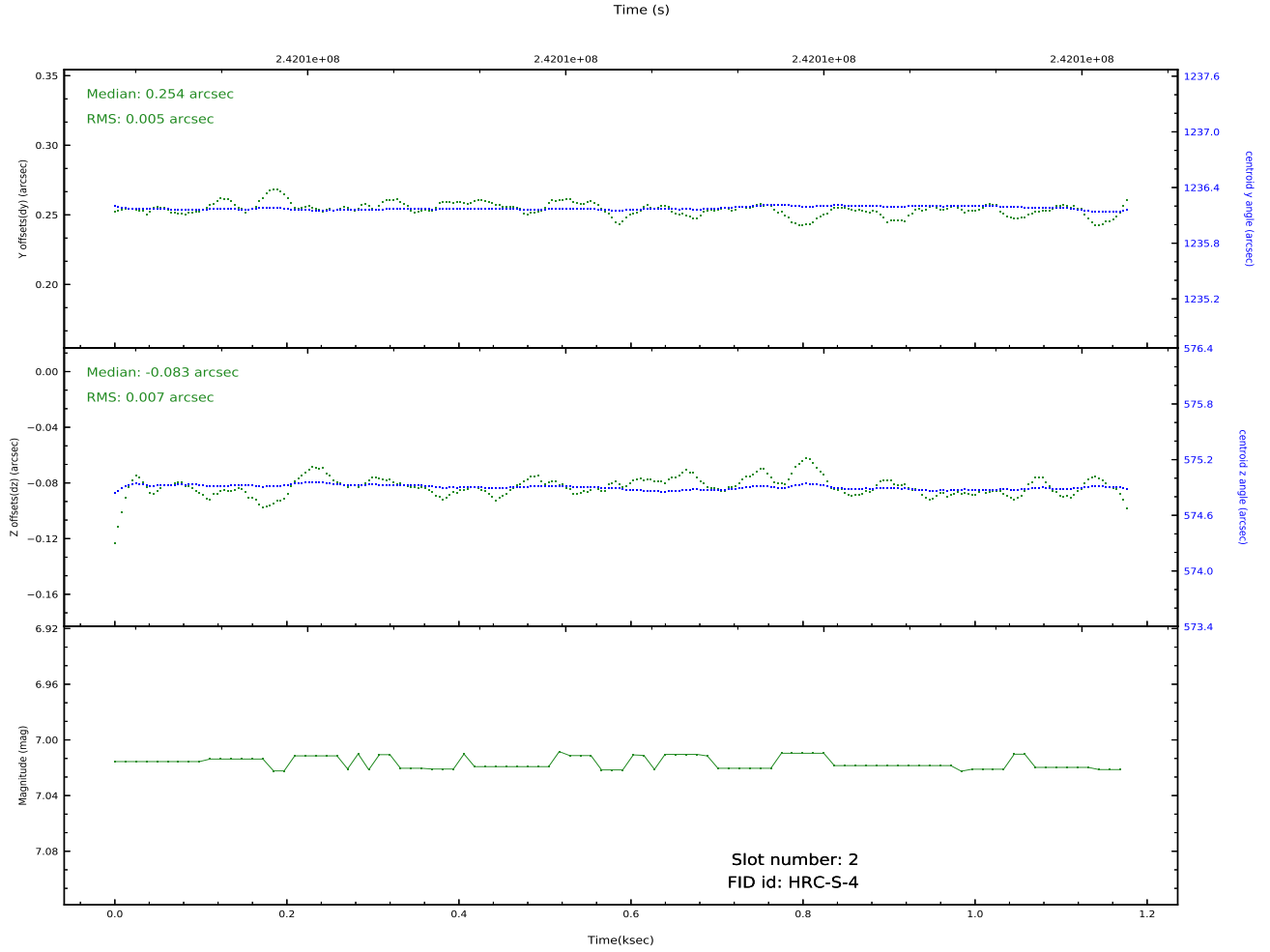
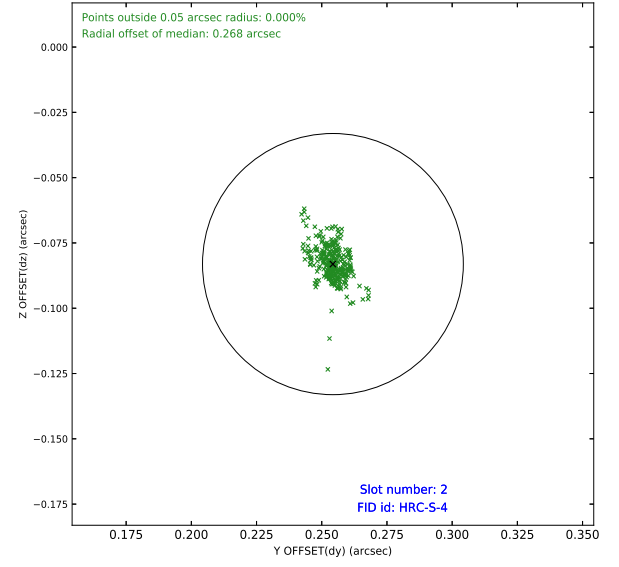
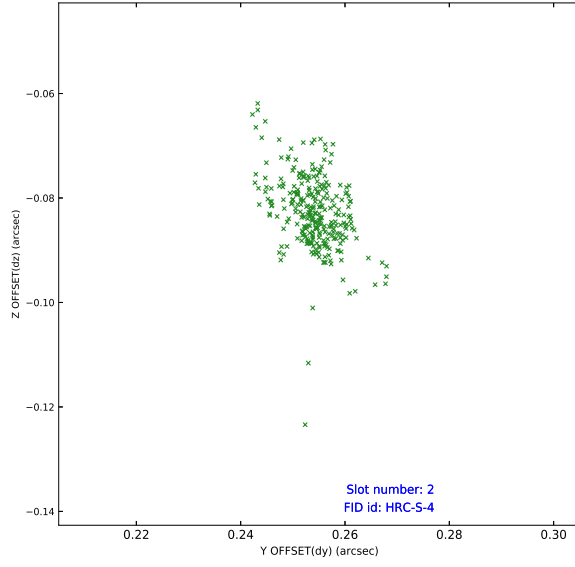
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.151331

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.