

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6012 - L2 Version 4
Chandra X-Ray Center

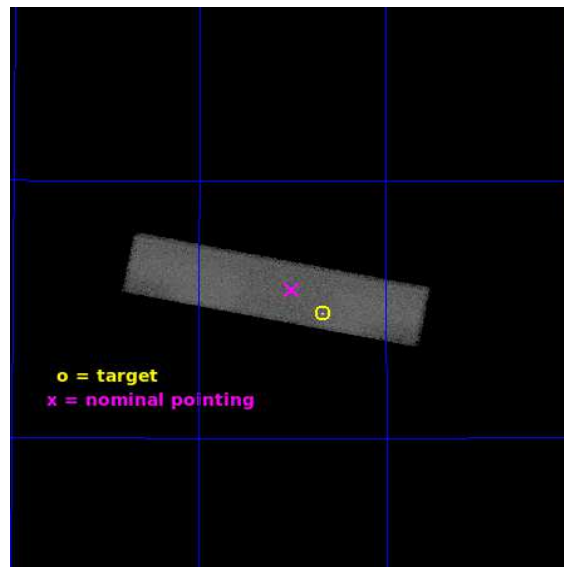
L2 Processing Date : Oct 10 2020

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1 Front

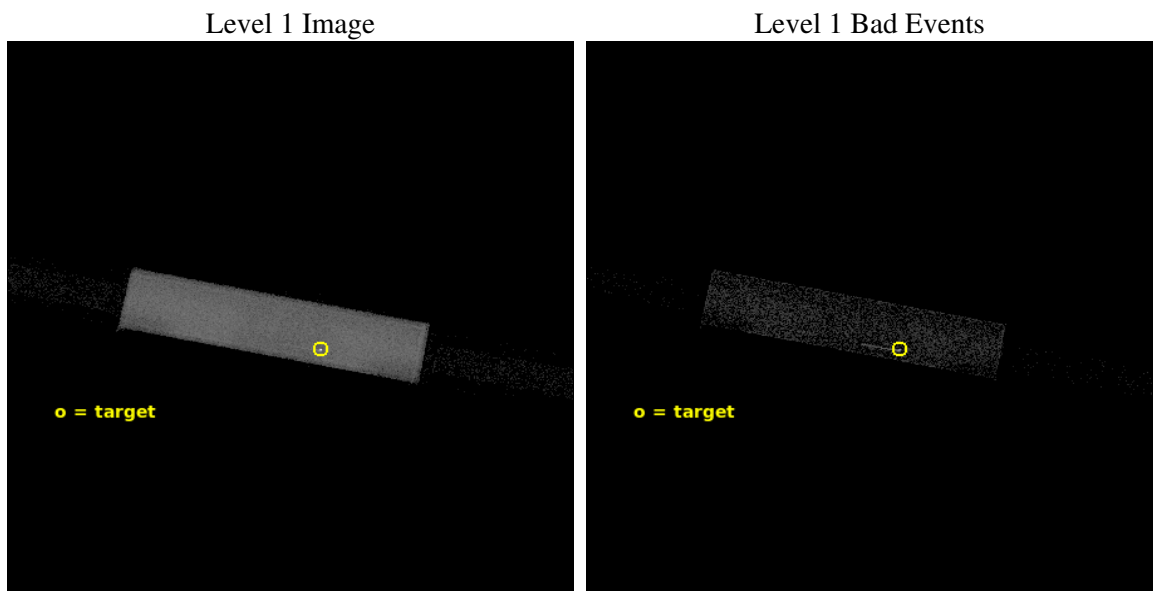
seq_num	290504	Sequence number
obs_id	6012	Observation id
title	AO6B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.25125050863	Nominal RA [deg]
dec_nom	45.788814706605	Nominal Dec [deg]
roll_nom	191.00645126697	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1157.4813031554	[s]
livetime	1139.9233682417	Ontime multiplied by DTCOR
l2events	131898	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	1157.4813031554	[s]
caldsver	4.9.2	 	l1events	191746	Number of level 1 events
date	2020-10-10T07:40:46	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

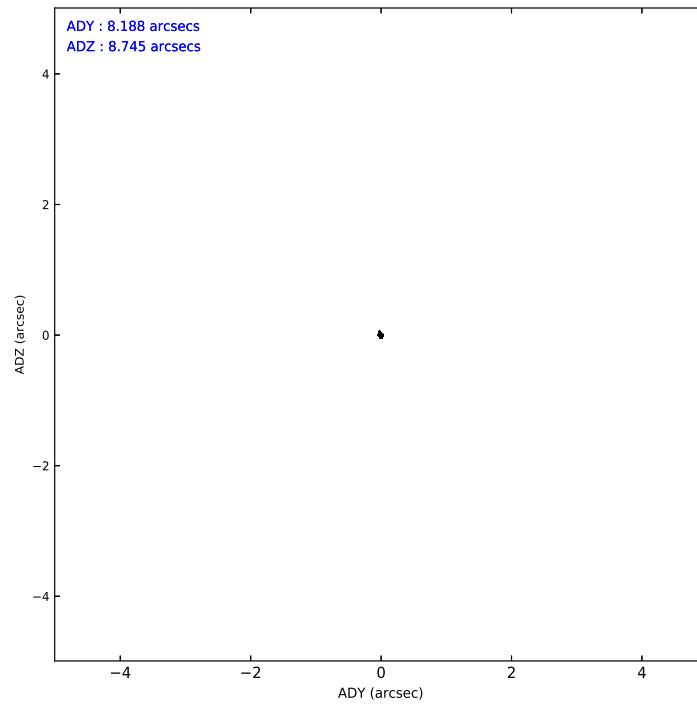
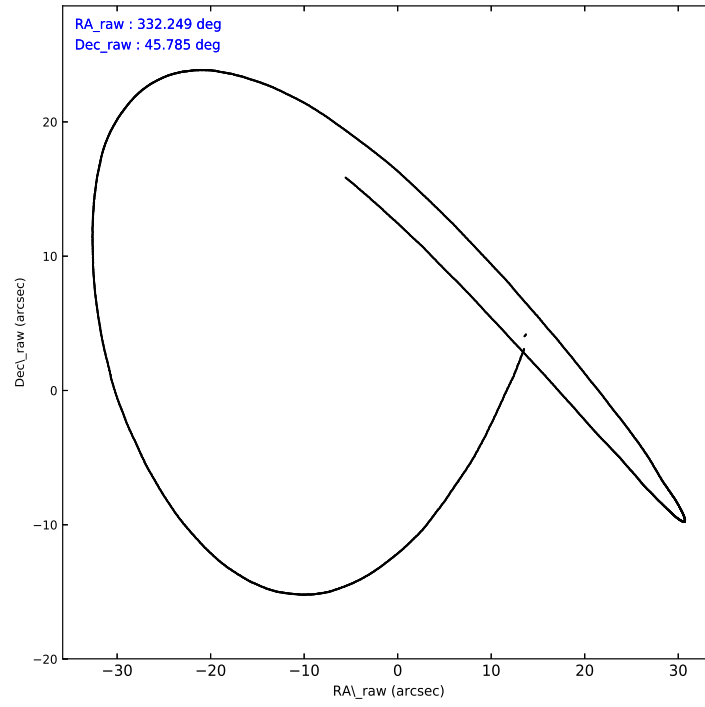
Level 1 Events

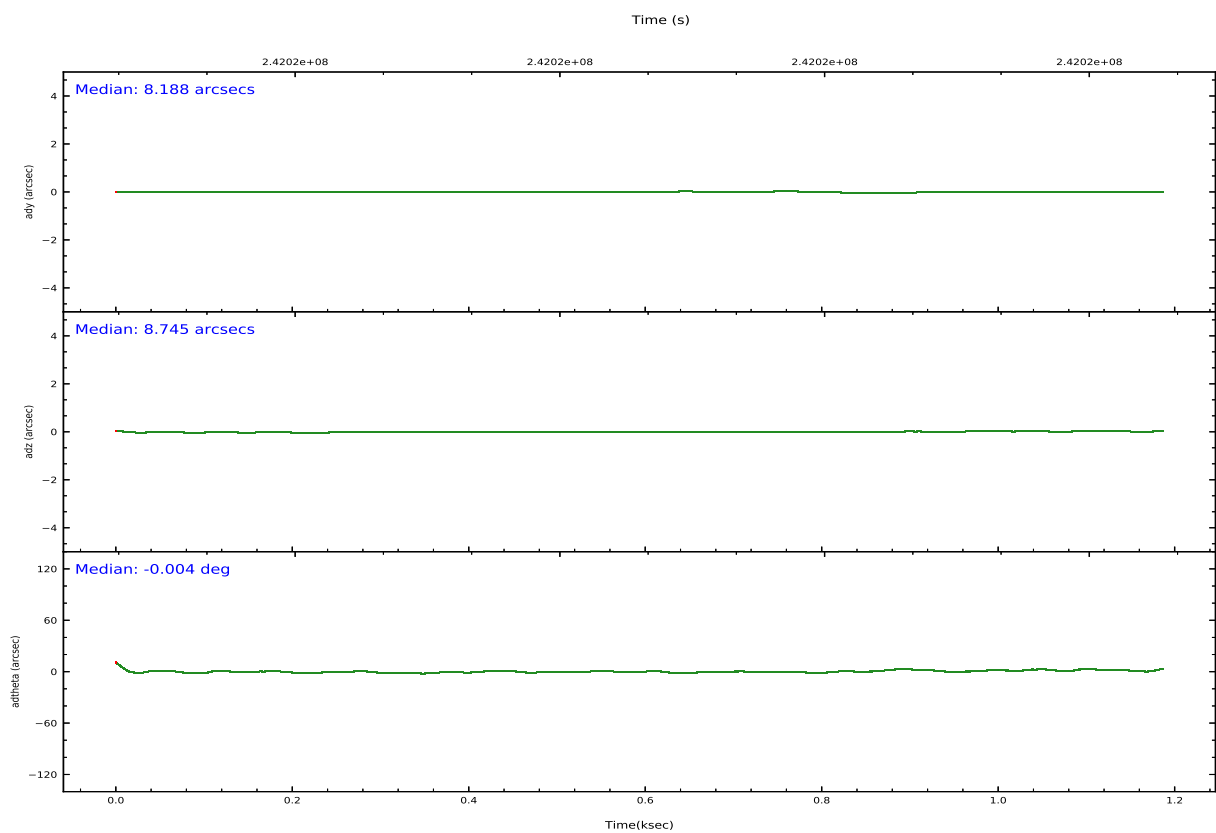
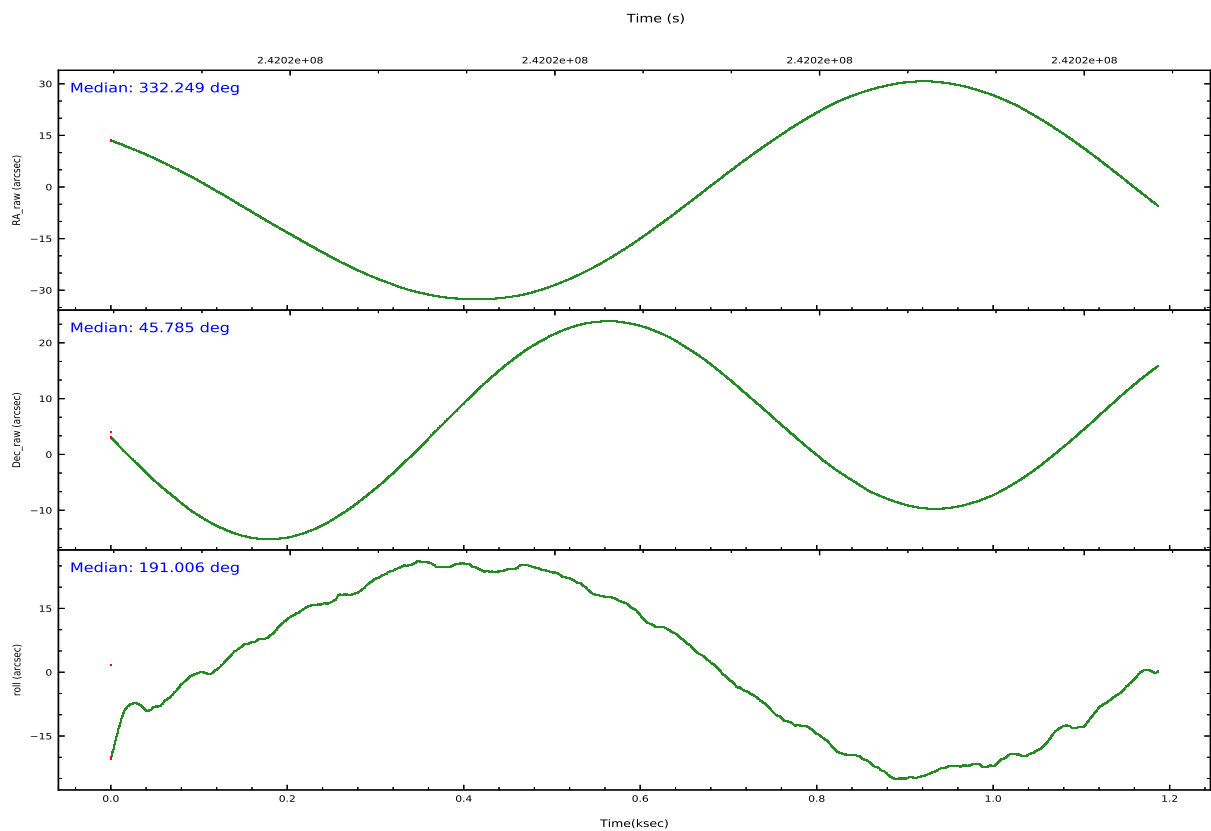
	segment 1	segment 2	segment 3
level 1 events	1645	188639	1462
rejected events	1645	41123	1462
rejected %	100%	21%	100%

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	332.277697	332.25125050863			
[deg] Pointing Dec	45.806767	45.788814706605			
[deg] Pointing Roll	190.920221	191.00645126697			
[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)	242016384.184000	242016008.75927			
Observation start date	2005-09-02T02:45:20	2005-09-02T02:40:08			
[s] Observation end time (MET)	242017384.184000	242017518.58434			
Observation end date	2005-09-02T03:02:00	2005-09-02T03:05:18			

2.3 Aspect



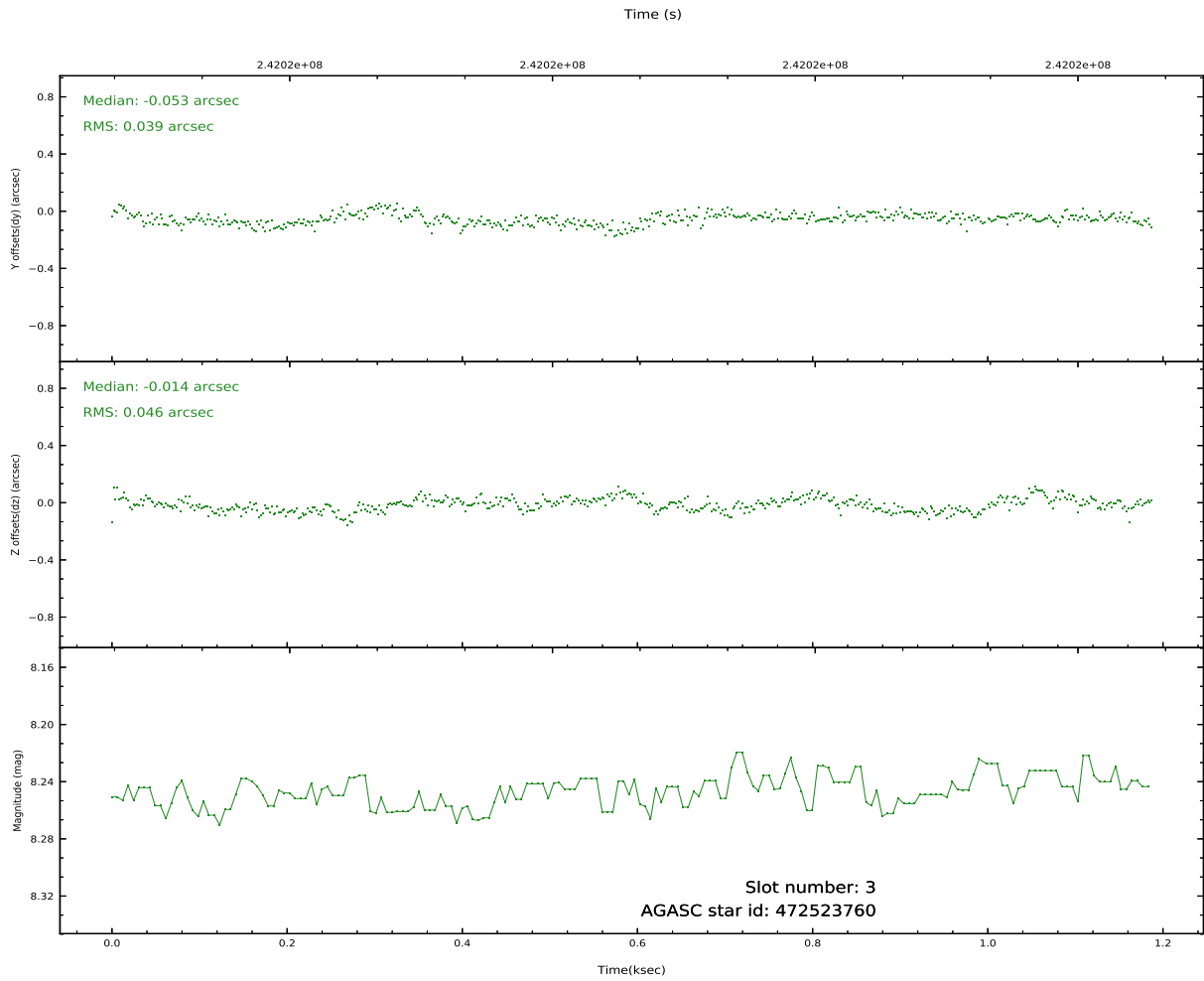
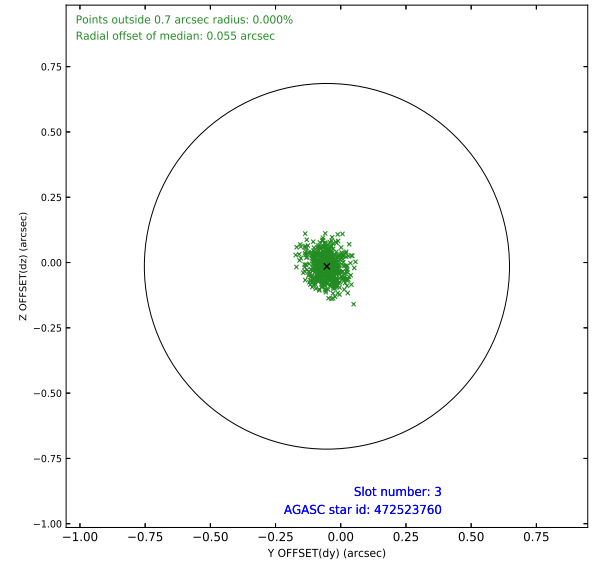
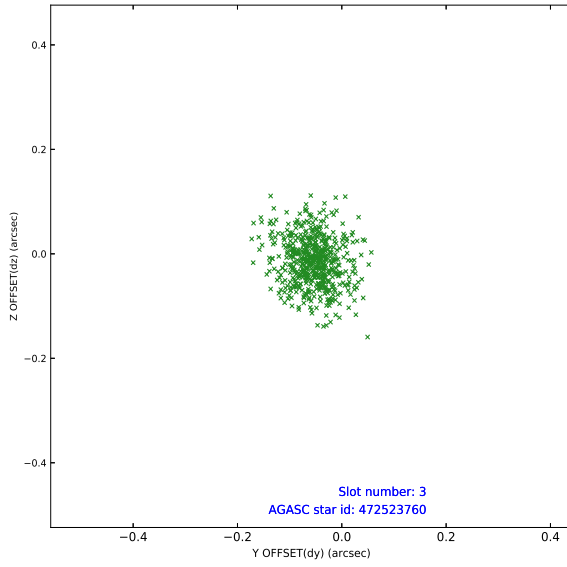


Slot Statistics

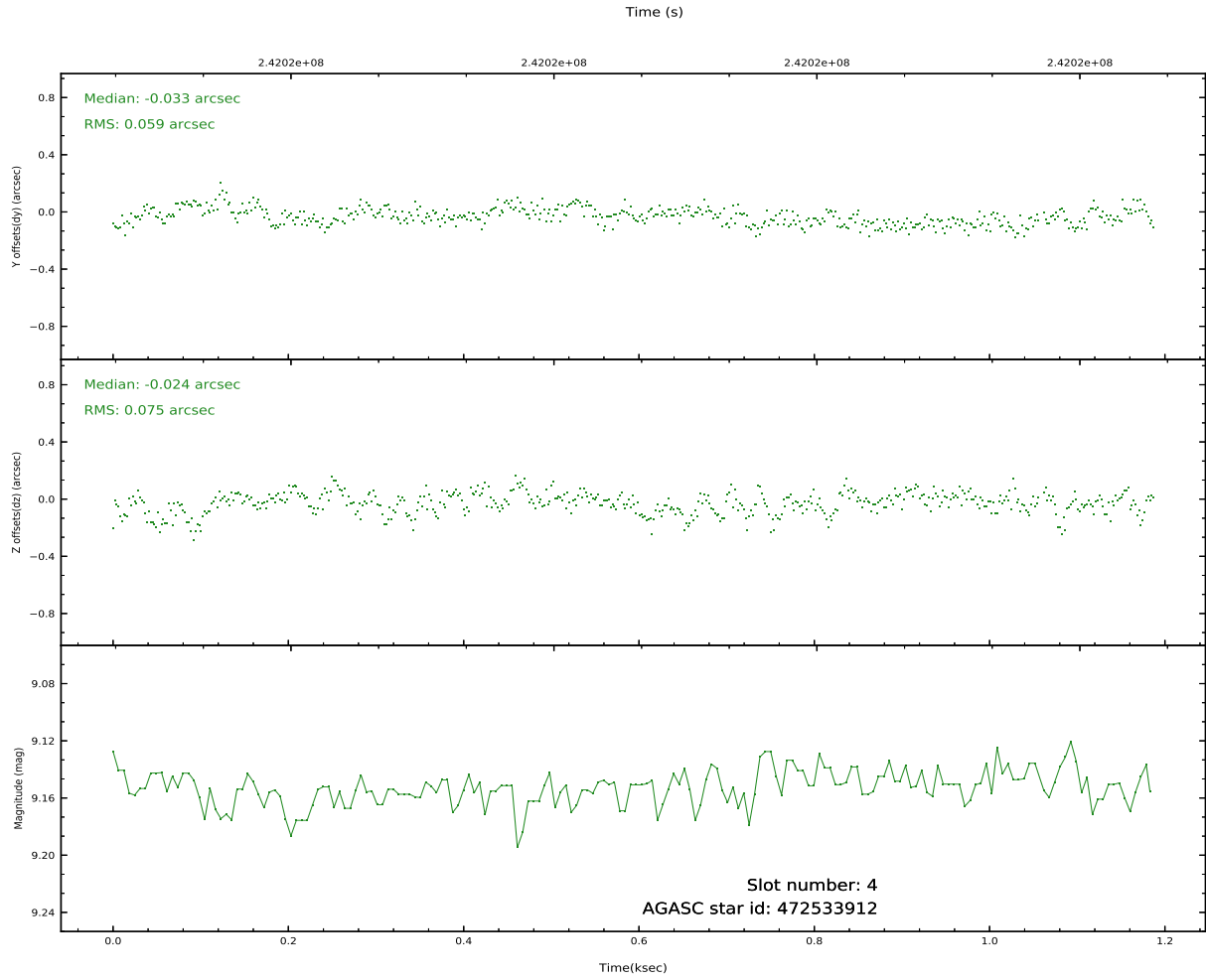
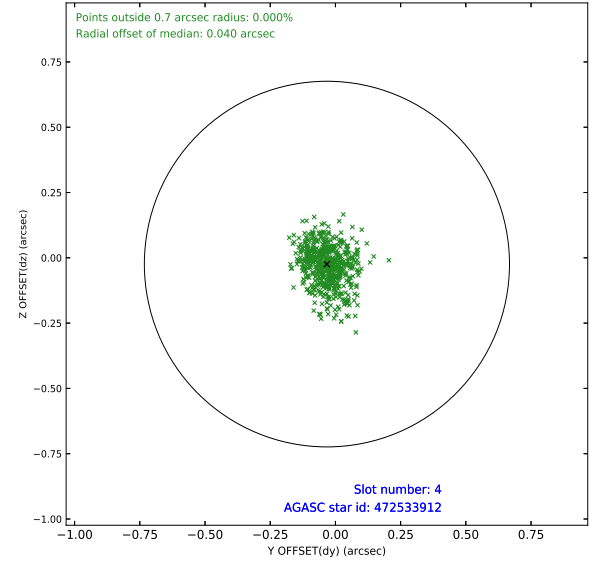
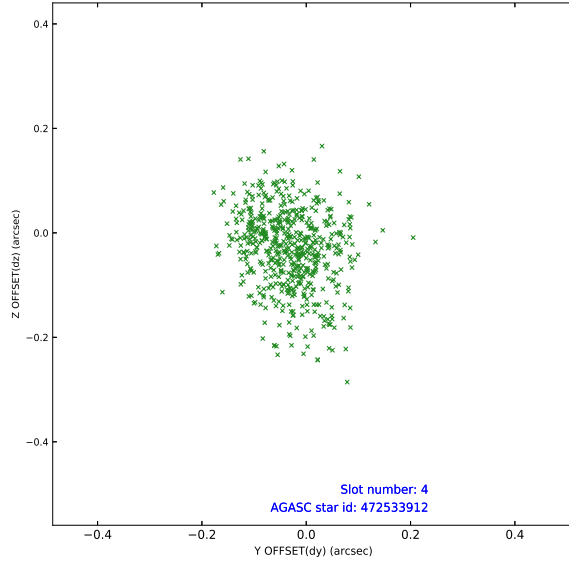
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	290	1.000	0.079	-0.190	0.007	0.012	0.000000	0.000000	-1162.42	-457
1	FID		HRC-S-3	7.04	290	1.000	0.039	-0.029	0.008	0.016	0.000000	0.000000	-1169.20	570
2	FID		HRC-S-4	7.02	290	1.000	0.269	-0.078	0.005	0.011	0.000000	0.000000	1231.99	576
3	GUIDE	used	472523760	8.25	579	1.000	-0.053	-0.014	0.065	0.108	331.645363	45.403260	1844.10	1113
4	GUIDE	used	472533912	9.15	578	1.000	-0.033	-0.024	0.100	0.172	331.791136	46.368695	807.10	-2220
5	GUIDE	used	472535576	7.87	577	1.000	-0.139	0.083	0.066	0.112	331.438373	46.291802	1719.50	-2128
6	GUIDE	used	472665256	9.01	580	1.000	0.130	-0.055	0.086	0.197	332.808125	46.195041	-1559.42	-1134
7	GUIDE	used	472655152	9.44	579	1.000	0.112	0.015	0.095	0.161	332.504239	45.862991	-597.86	-97

2.4 Star Slots

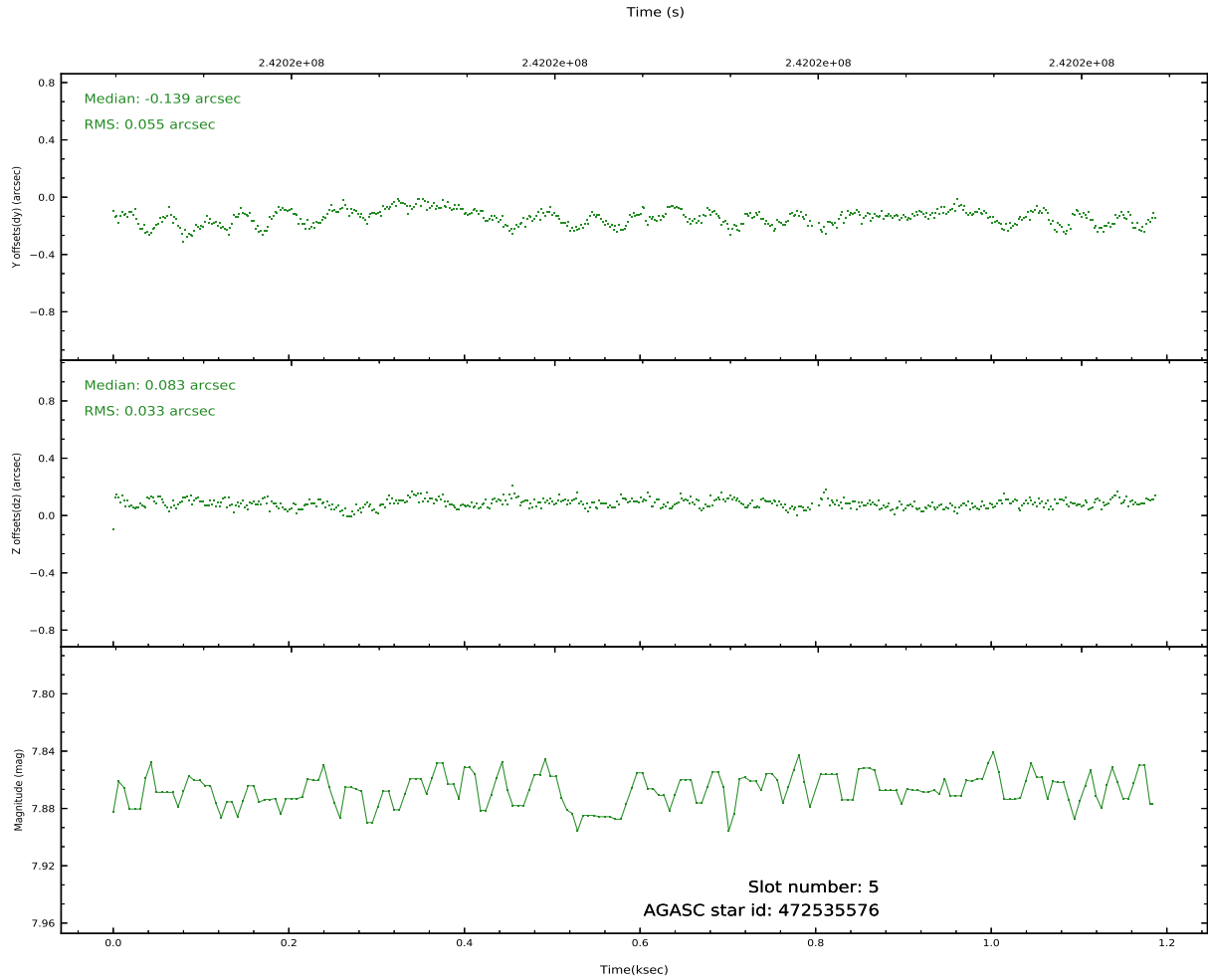
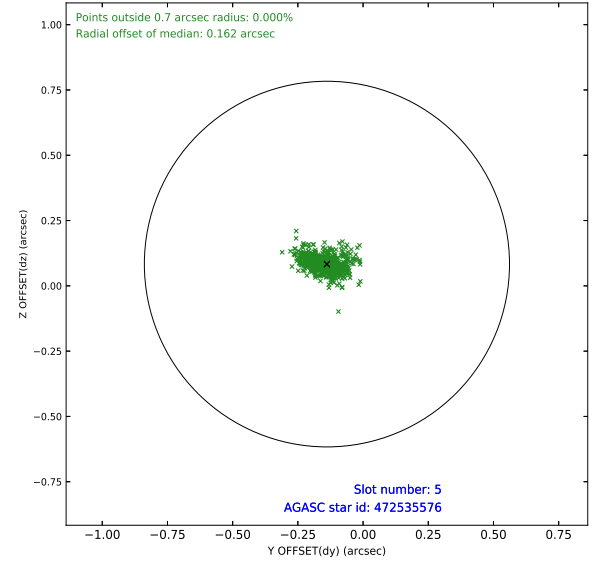
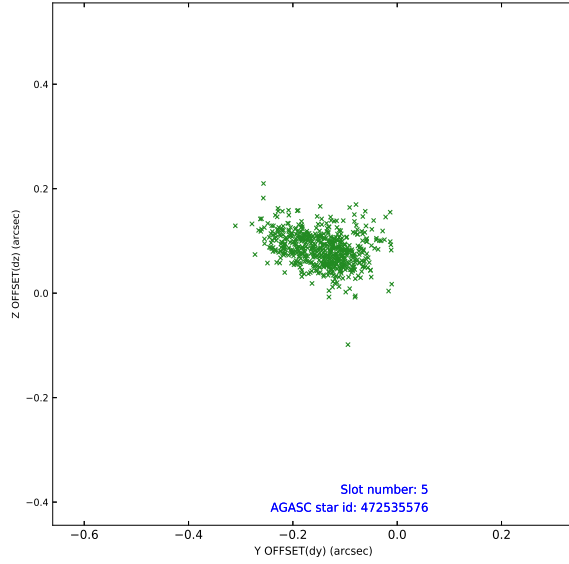
2.4.1 Slot 3



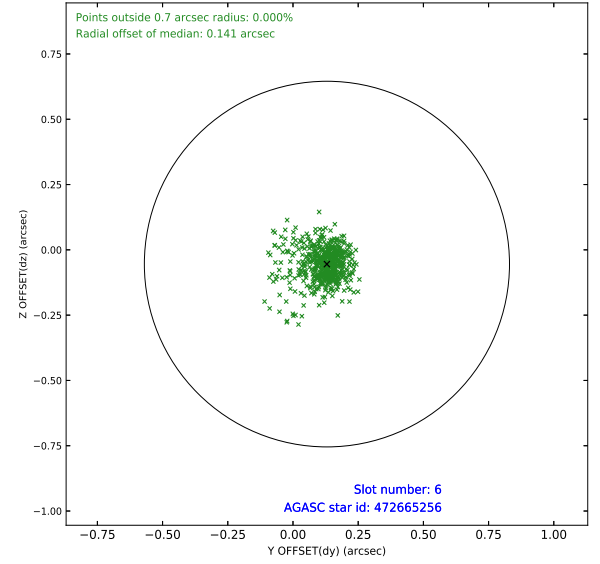
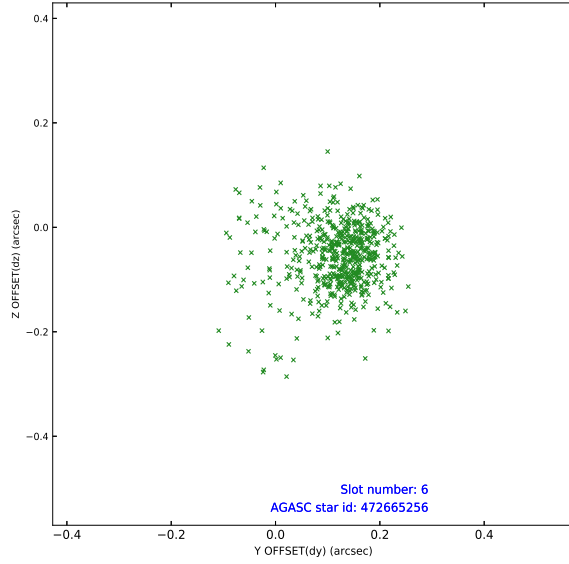
2.4.2 Slot 4



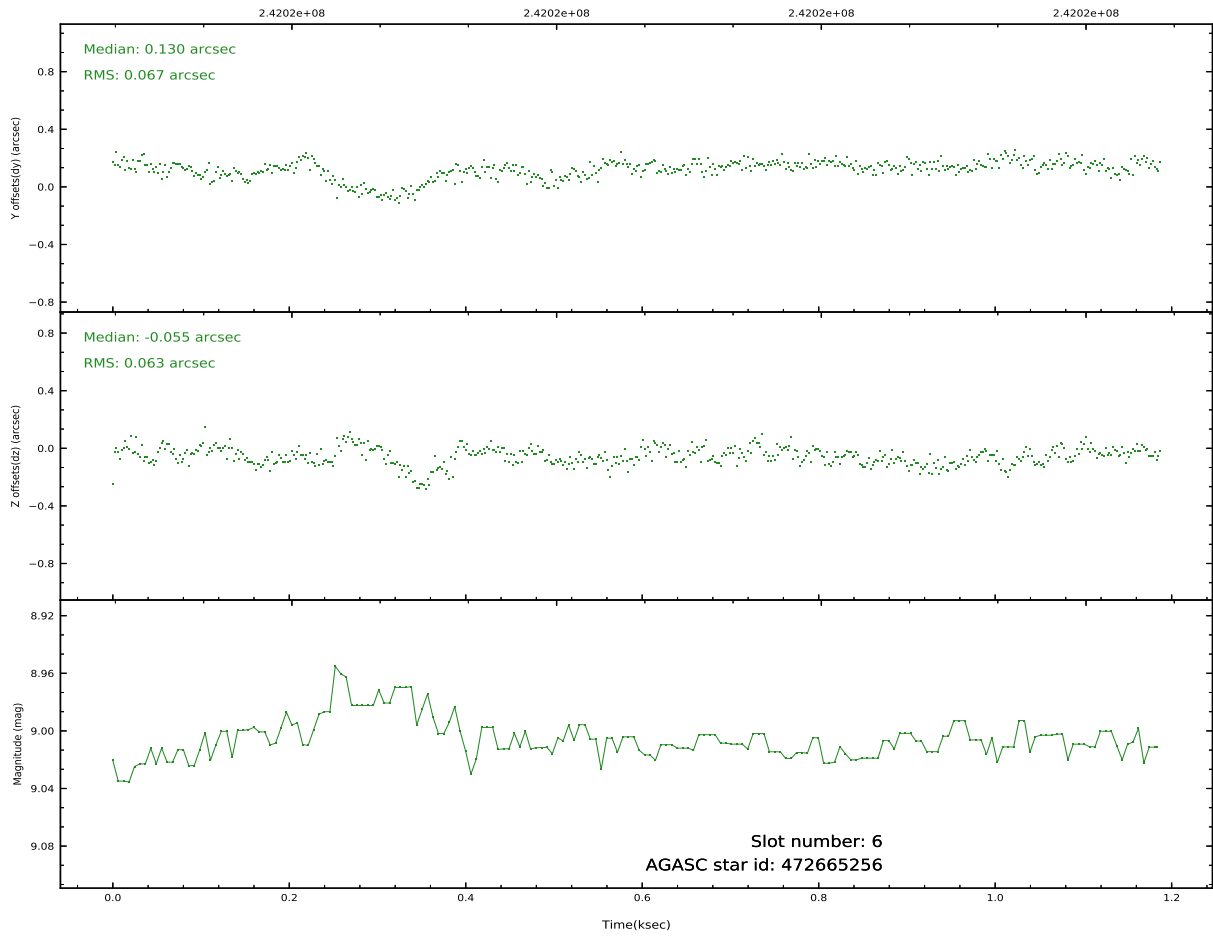
2.4.3 Slot 5



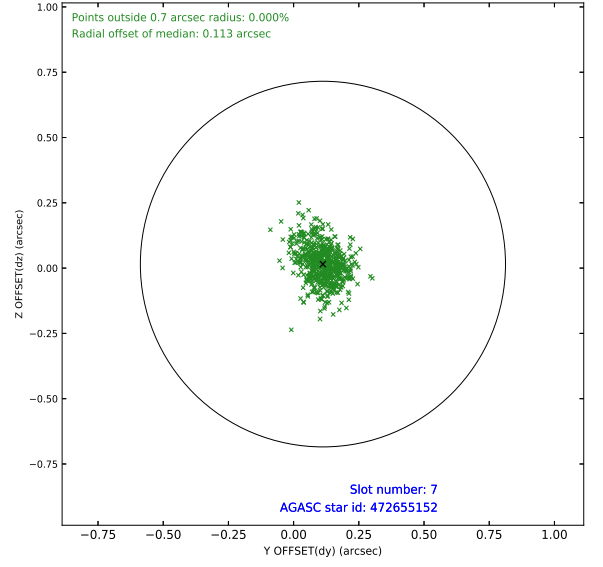
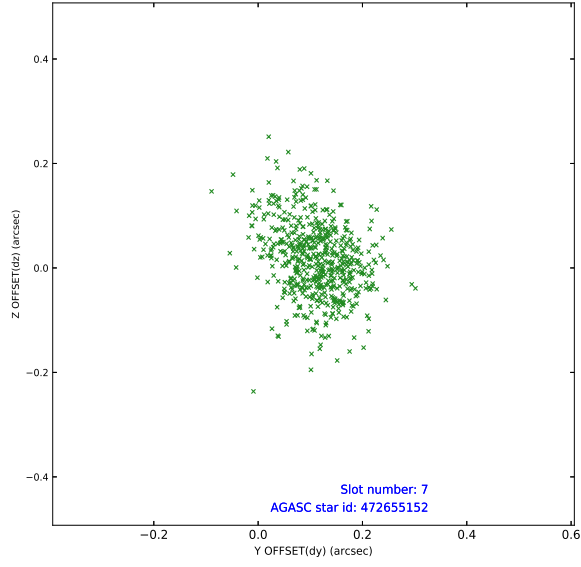
2.4.4 Slot 6



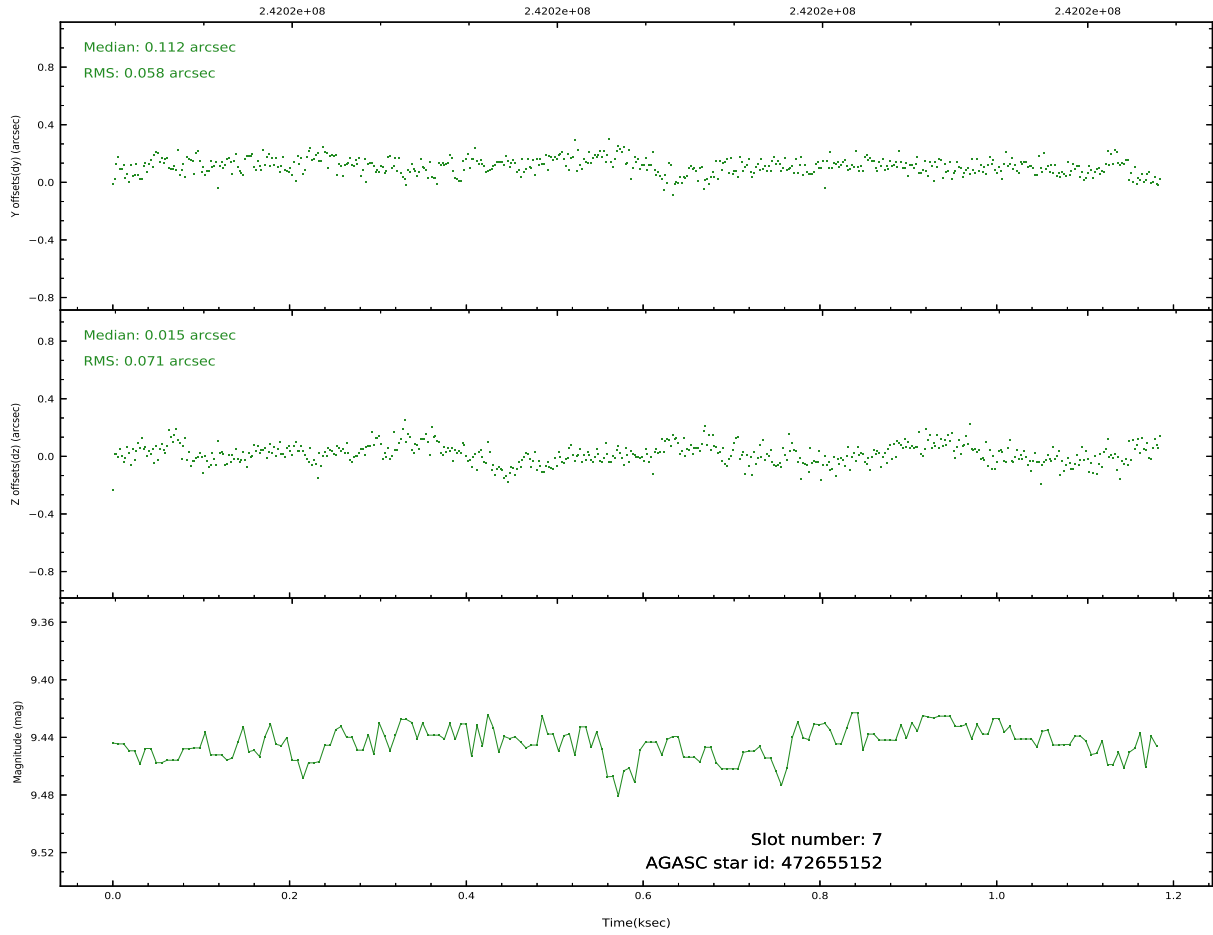
Time (s)



2.4.5 Slot 7

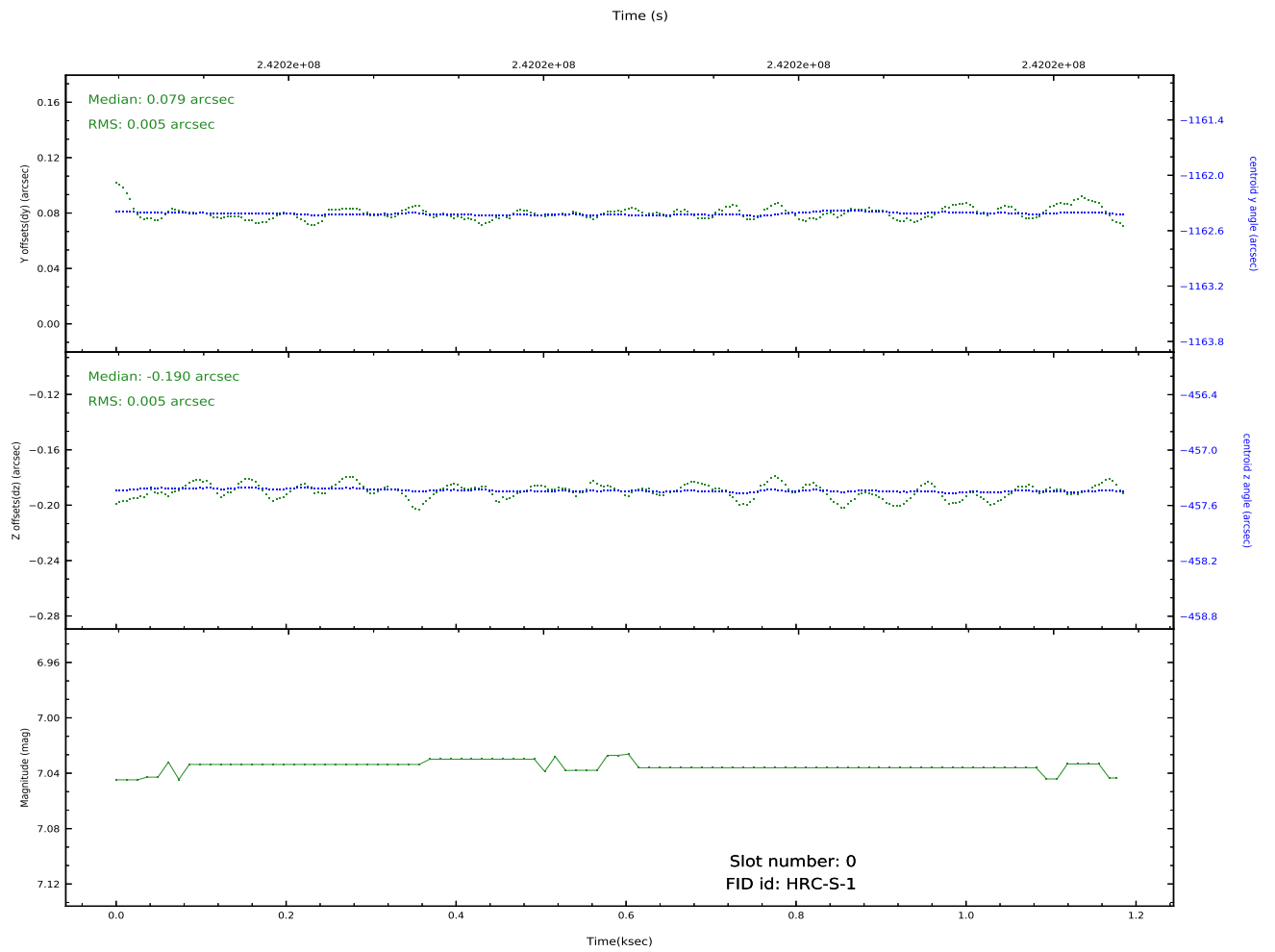
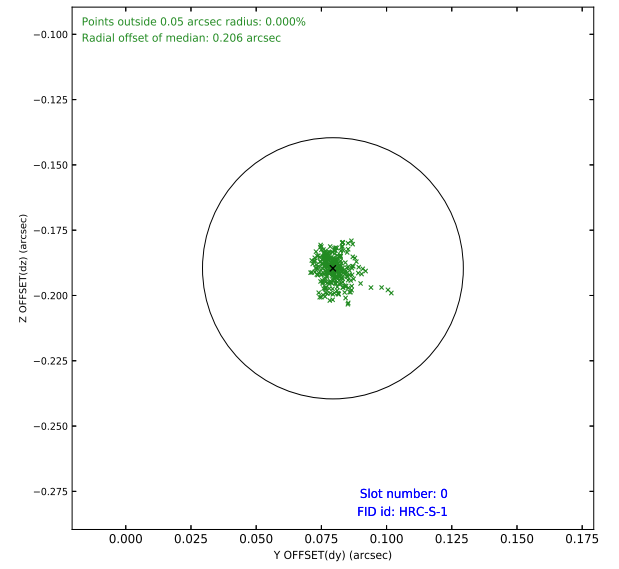
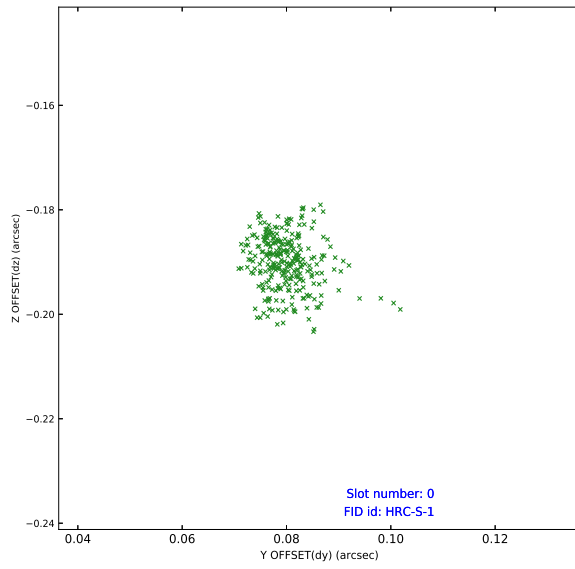


Time (s)

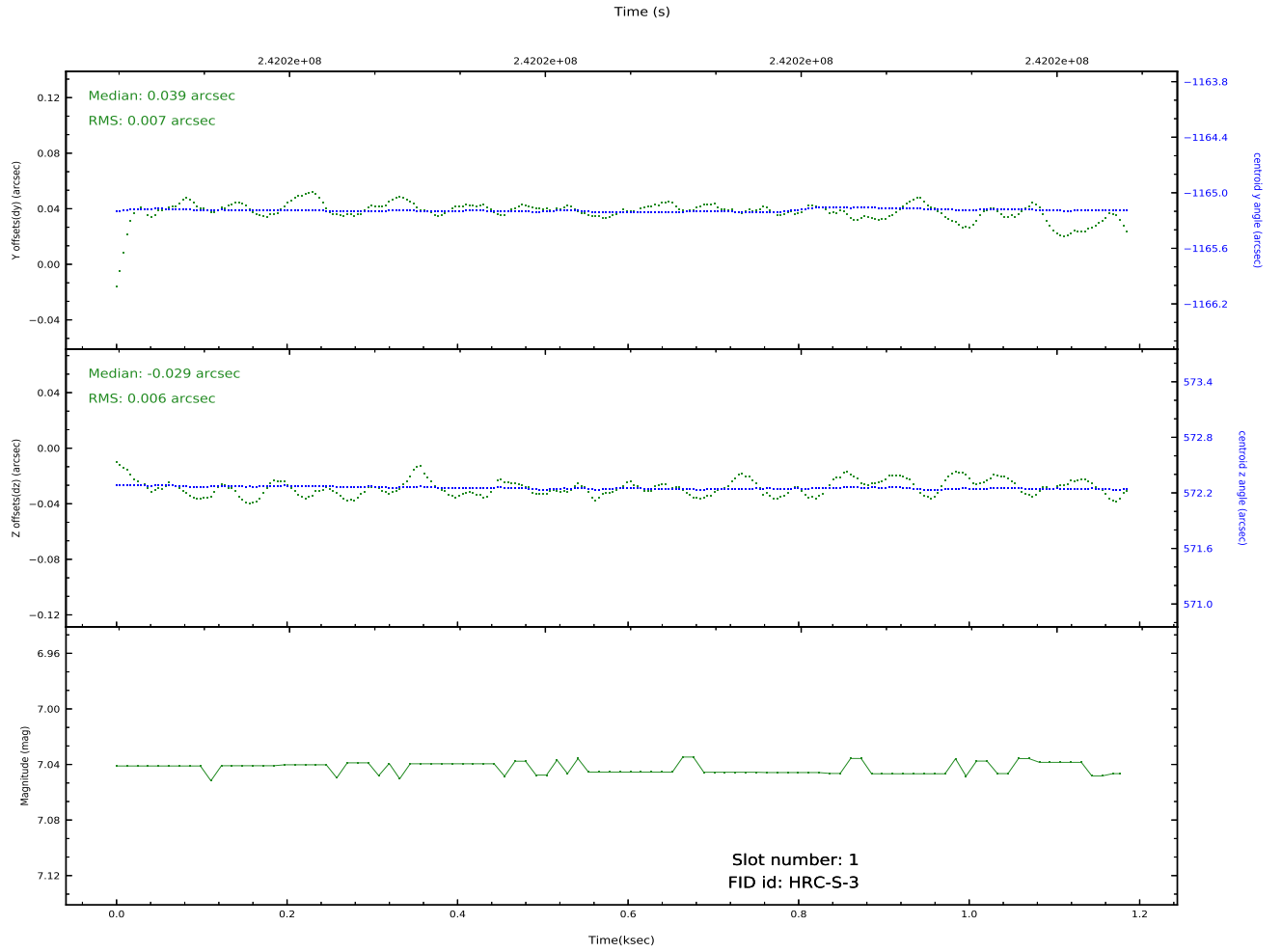
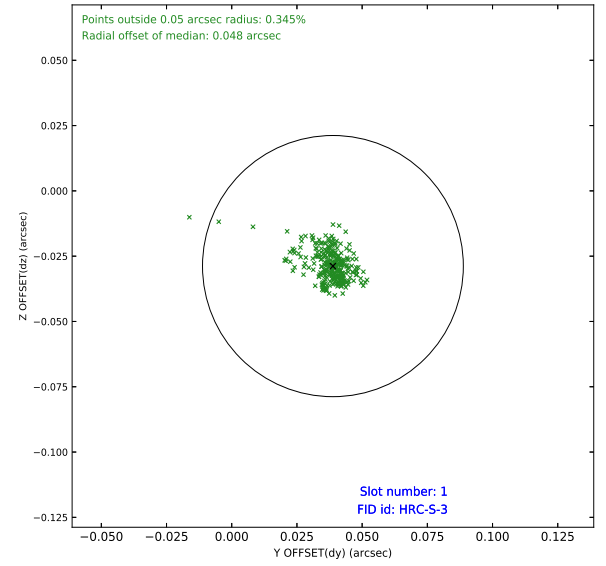
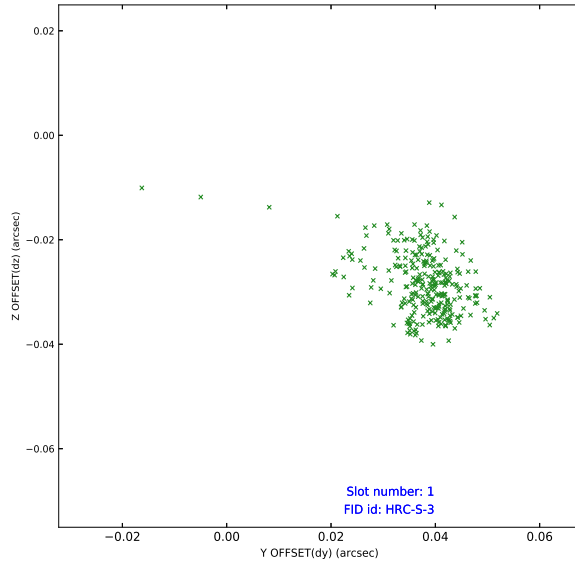


2.5 FID Slots

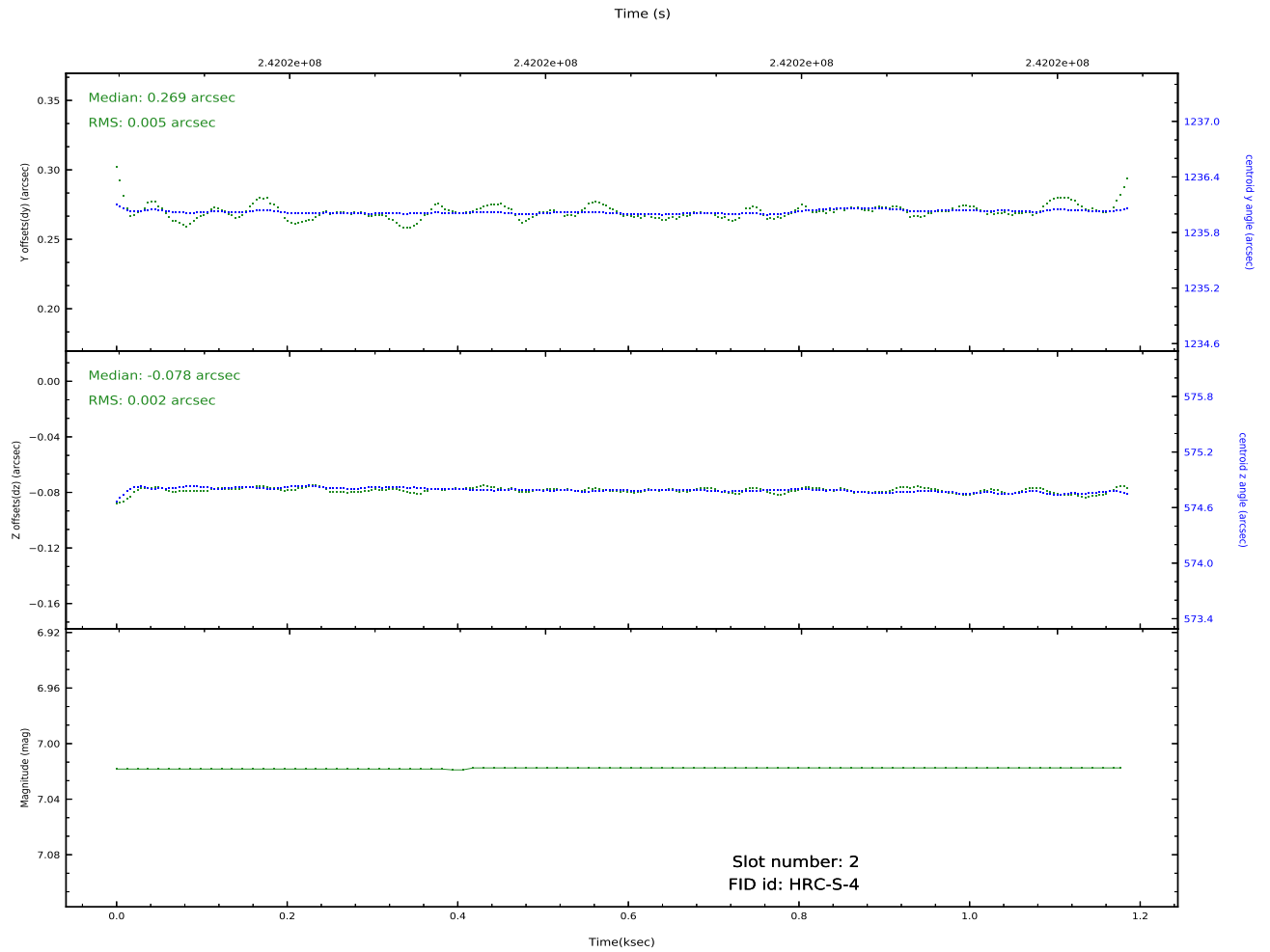
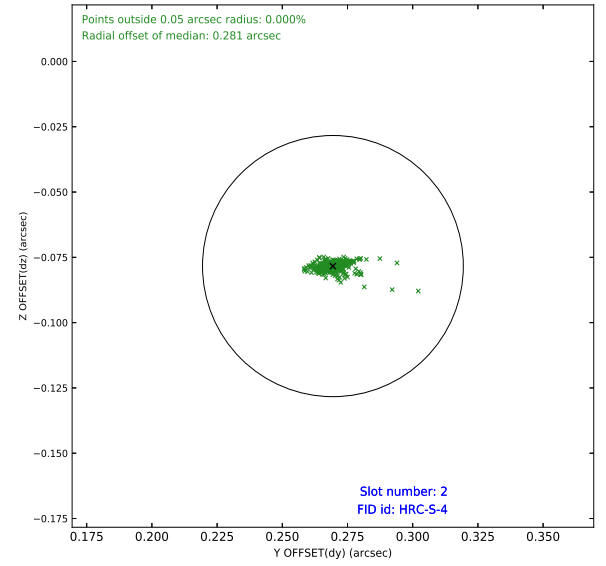
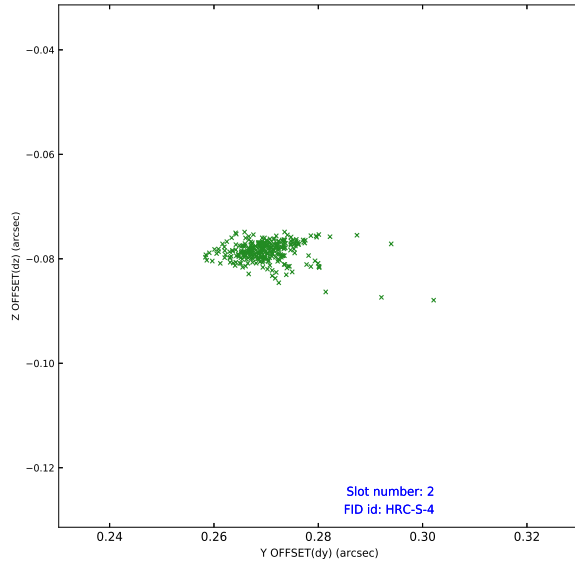
2.5.1 Slot 0



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)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.157481

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.