

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5956 - L2 Version 4
Chandra X-Ray Center

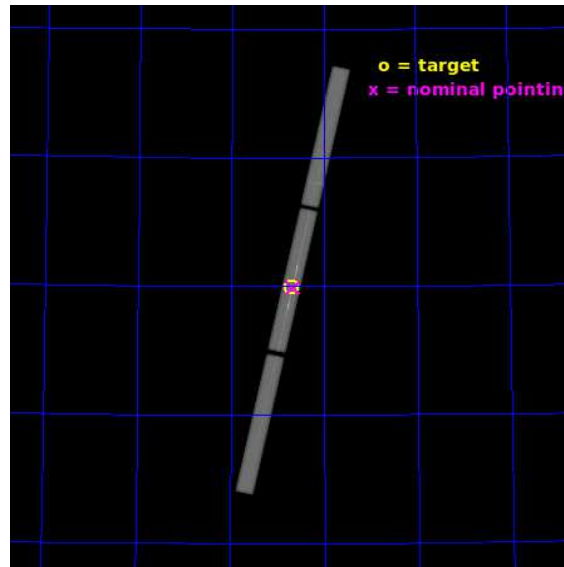
L2 Processing Date : Oct 7 2020

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1 Front

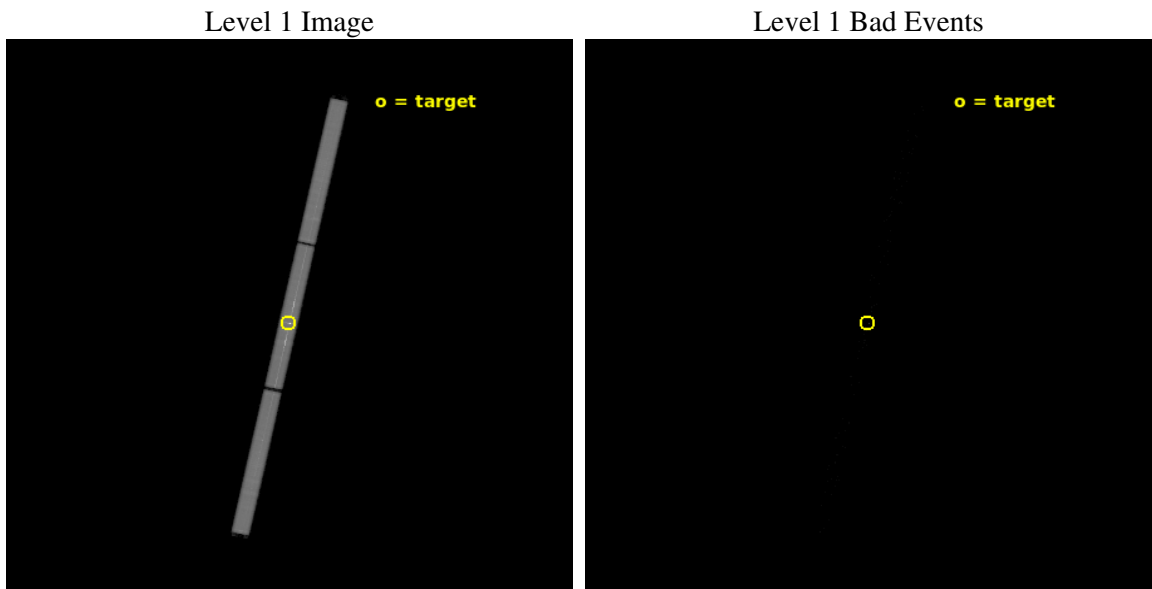
seq_num	290448	Sequence number
obs_id	5956	Observation id
title	AO6 Calibration Observations of Capella	Proposal title
observer	CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.17625	Observer's specified target RA [deg]
dec_targ	45.997889	Observer's specified target Dec [deg]
ra_nom	79.172931983898	Nominal RA [deg]
dec_nom	45.994635214977	Nominal Dec [deg]
roll_nom	282.28872898943	Nominal Roll [deg]
revision	4	Processing version of data
ontime	30173.1826199	[s]
livetime	29927.532879082	Ontime multiplied by DTCOR
l2events	2126422	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	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30173.1826199	[s]
caldsver	4.9.2	 	l1events	2843717	Number of level 1 events
date	2020-10-07T15:58:17	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32777.98, 32840.57)	src1a sky pixel position

2.1.3 Events

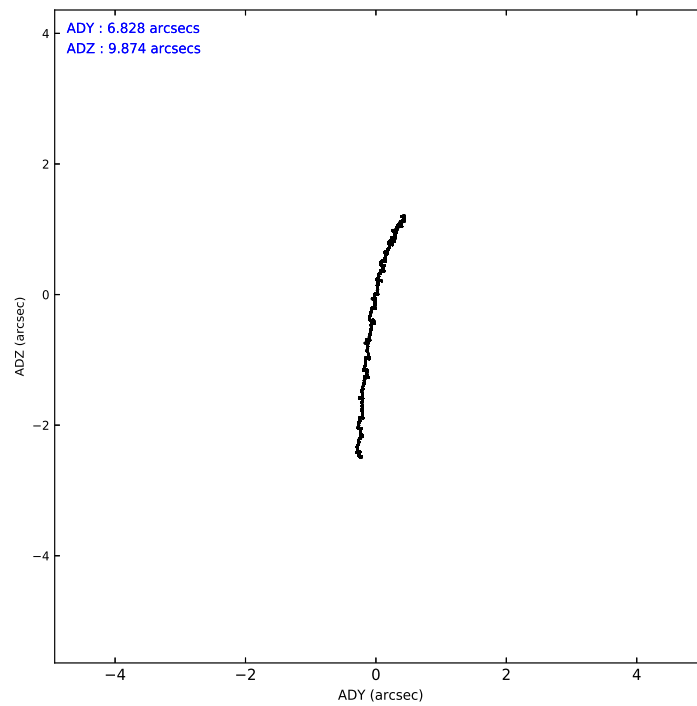
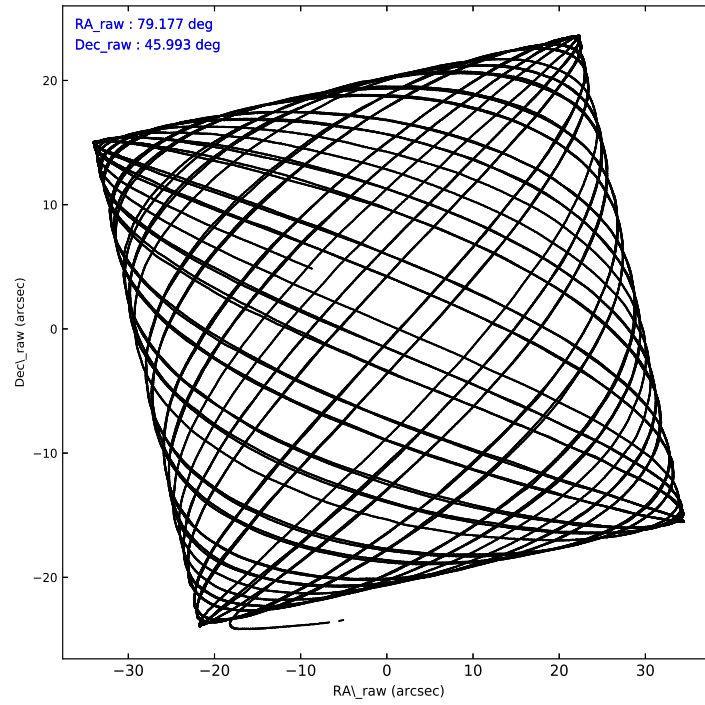
Level 1 Events

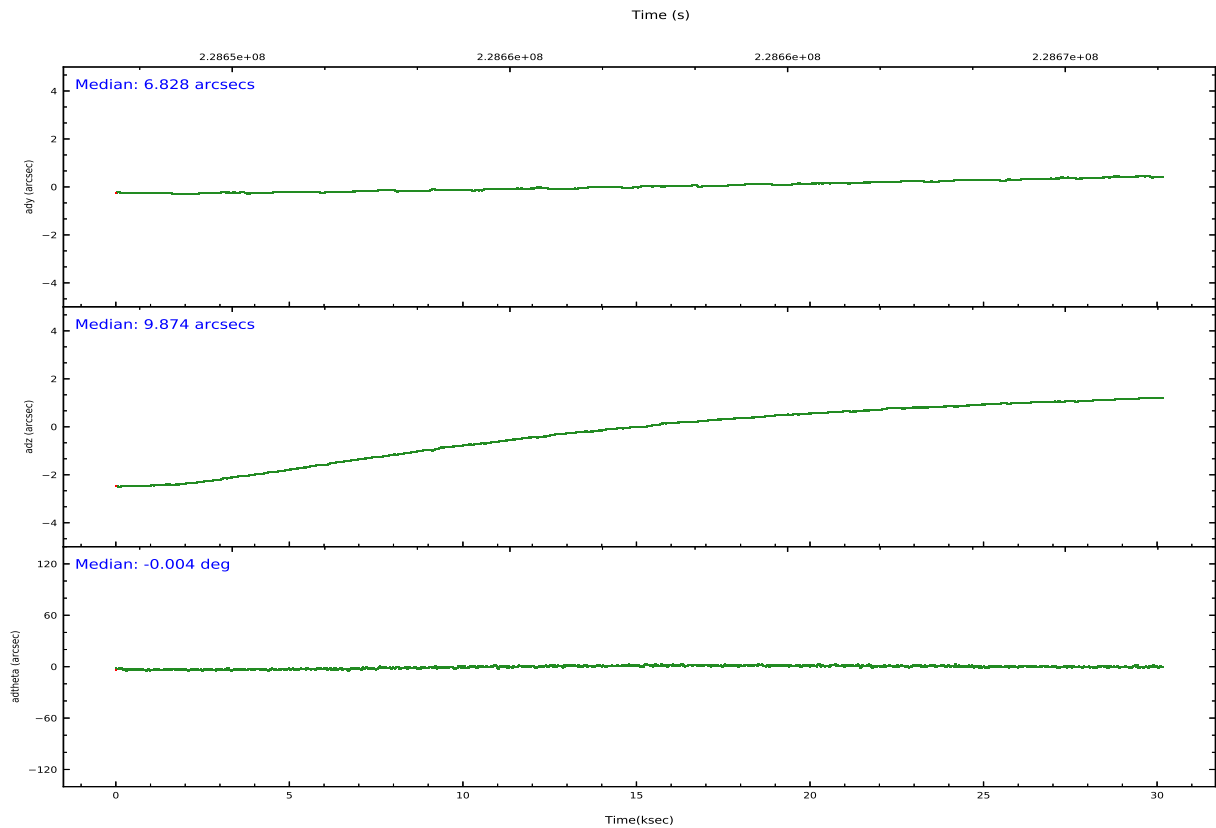
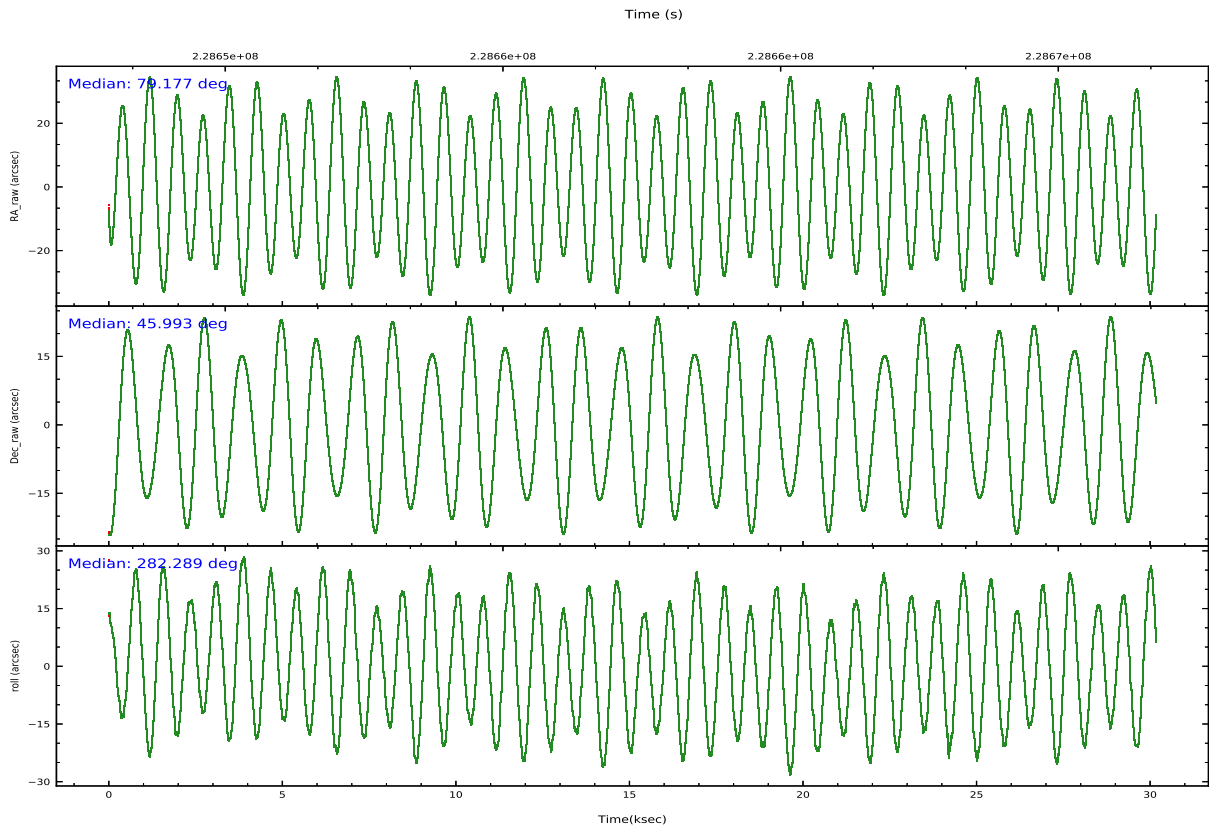
	segment 1	segment 2	segment 3
level 1 events	909333	1040898	893486
rejected events	23526	23480	23345
rejected %	2%	2%	2%

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	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	79.148309	79.172931983898			
[deg] Pointing Dec	46.013459	45.994635214977			
[deg] Pointing Roll	282.243796	282.28872898943			
[s] Window start time (MET)	227232064.184000	227232064.184000			
[s] Window stop time (MET)	241833664.184000	241833664.184000			
[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)	228644820.184000	228643793.06118			
Observation start date	2005-03-31T08:25:56	2005-03-31T08:09:53			
[s] Observation end time (MET)	228674820.184000	228675798.17514			
Observation end date	2005-03-31T16:45:56	2005-03-31T17:03:18			

2.3 Aspect





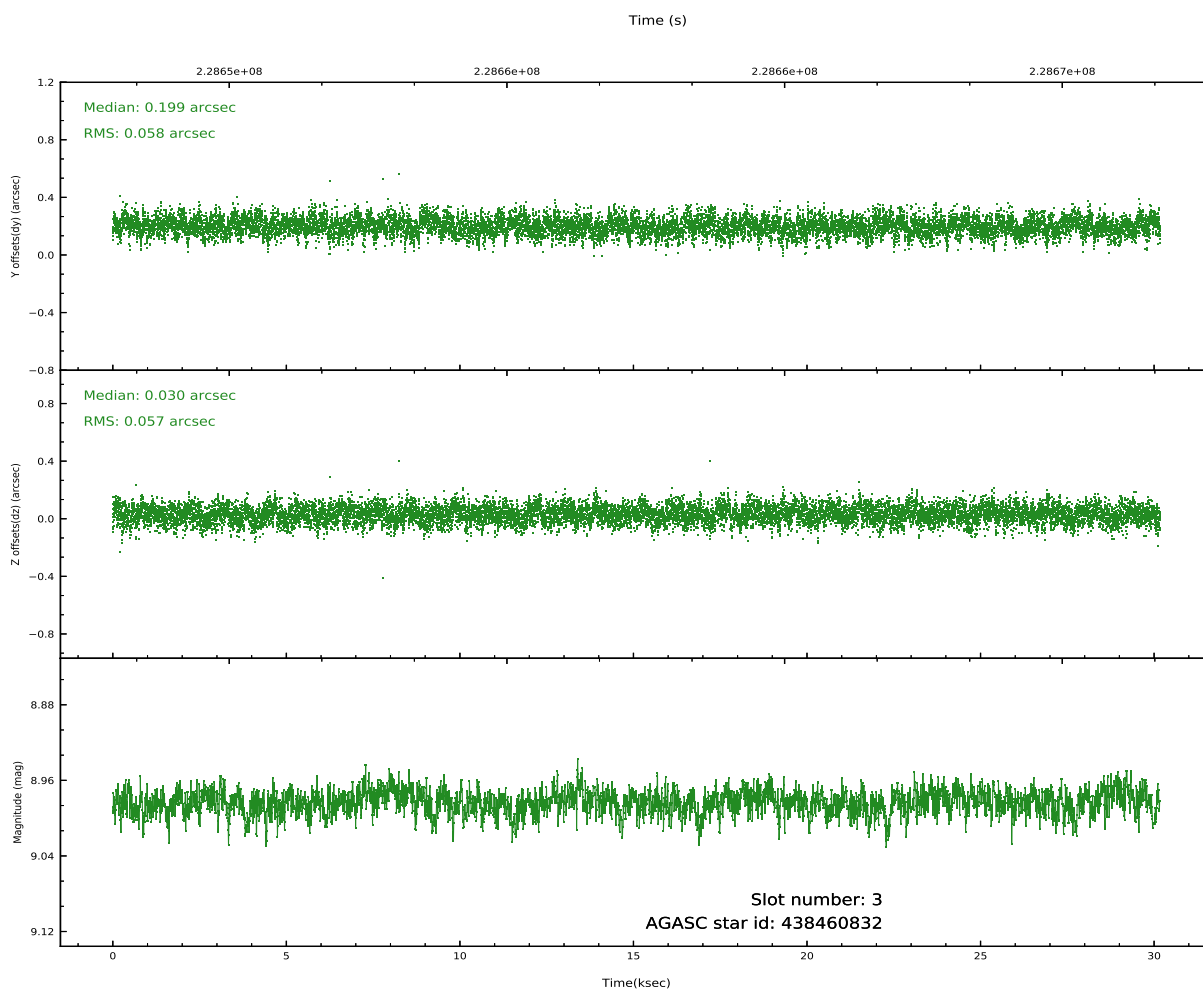
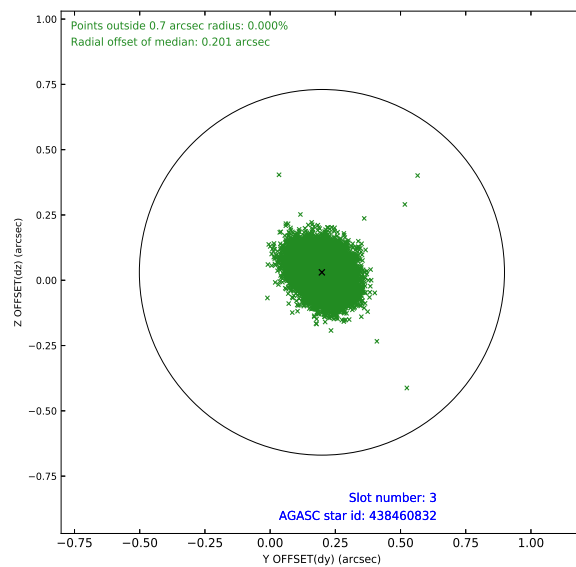
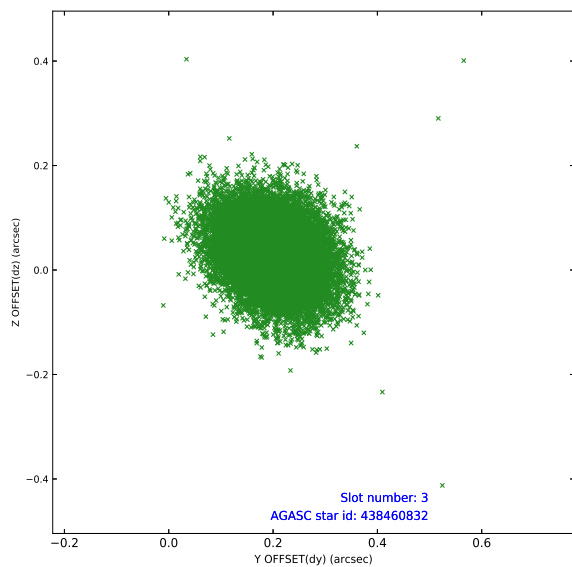
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		HRC-S-1	6.99	7359	1.000	0.090	-0.171	0.024	0.061	0.000000	0.000000	-1161.03	-458
1	FID		HRC-S-2	6.98	7360	1.000	0.203	-0.114	0.007	0.012	0.000000	0.000000	1238.61	-450
2	FID		HRC-S-3	7.00	7360	1.000	0.098	-0.017	0.025	0.064	0.000000	0.000000	-1163.59	571
3	GUIDE	used	438460832	8.98	14708	1.000	0.199	0.030	0.087	0.140	78.414614	45.554782	1214.17	-2155
4	GUIDE	used	440150048	7.18	14719	1.000	-0.169	0.014	0.074	0.112	79.112838	46.416060	-1434.78	221
5	GUIDE	used	440163960	8.88	14716	1.000	0.199	0.055	0.079	0.129	79.298370	45.827072	735.65	226
6	GUIDE	used	440164960	8.30	14716	1.000	0.050	-0.021	0.062	0.101	79.132526	46.140947	-456.07	59
7	GUIDE	used	438437960	8.50	14653	1.000	-0.284	-0.081	0.078	0.125	78.069023	46.438843	-2082.07	-2288

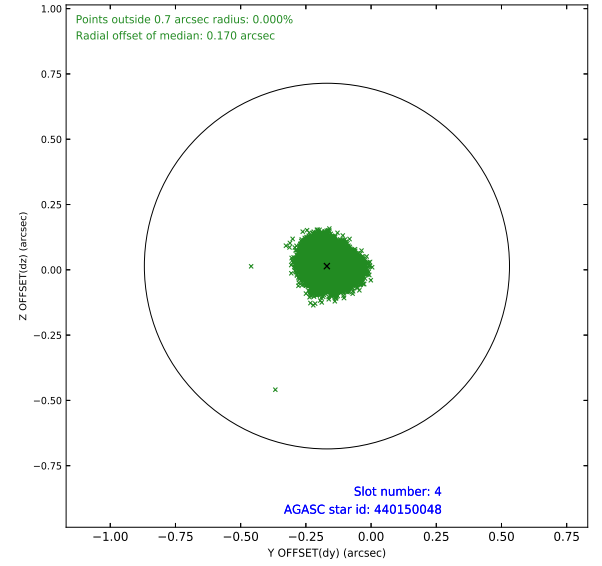
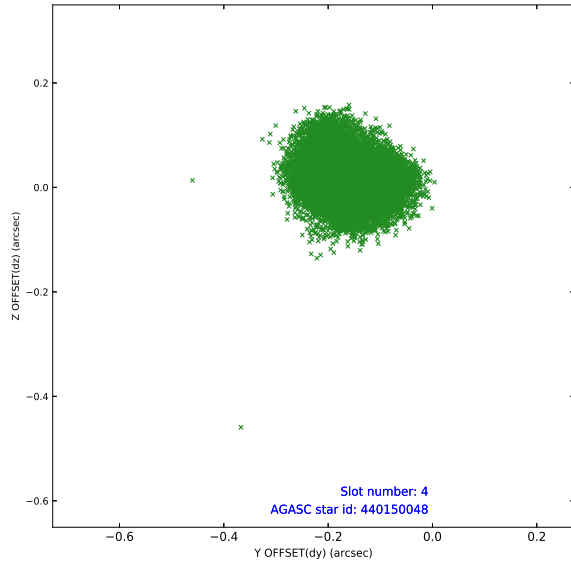
∞

2.4 Star Slots

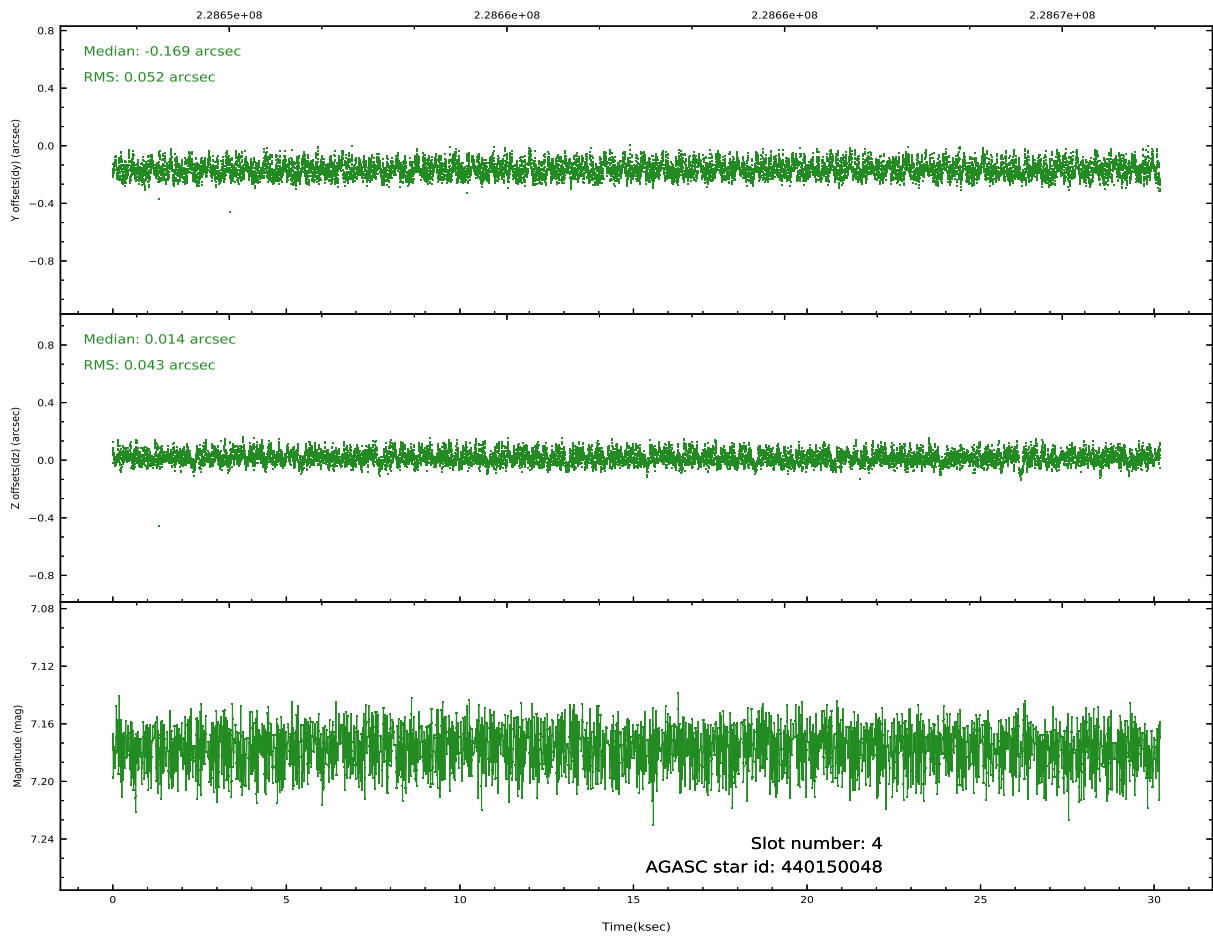
2.4.1 Slot 3



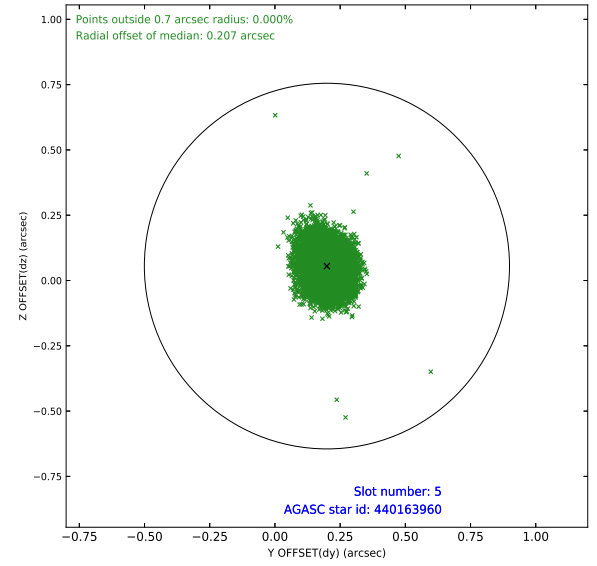
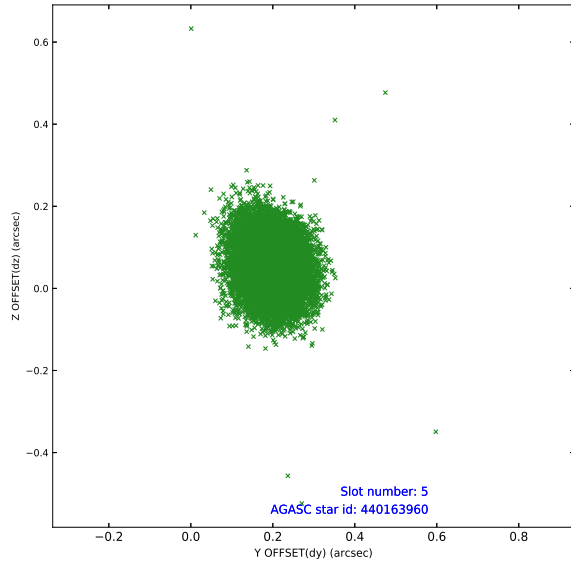
2.4.2 Slot 4



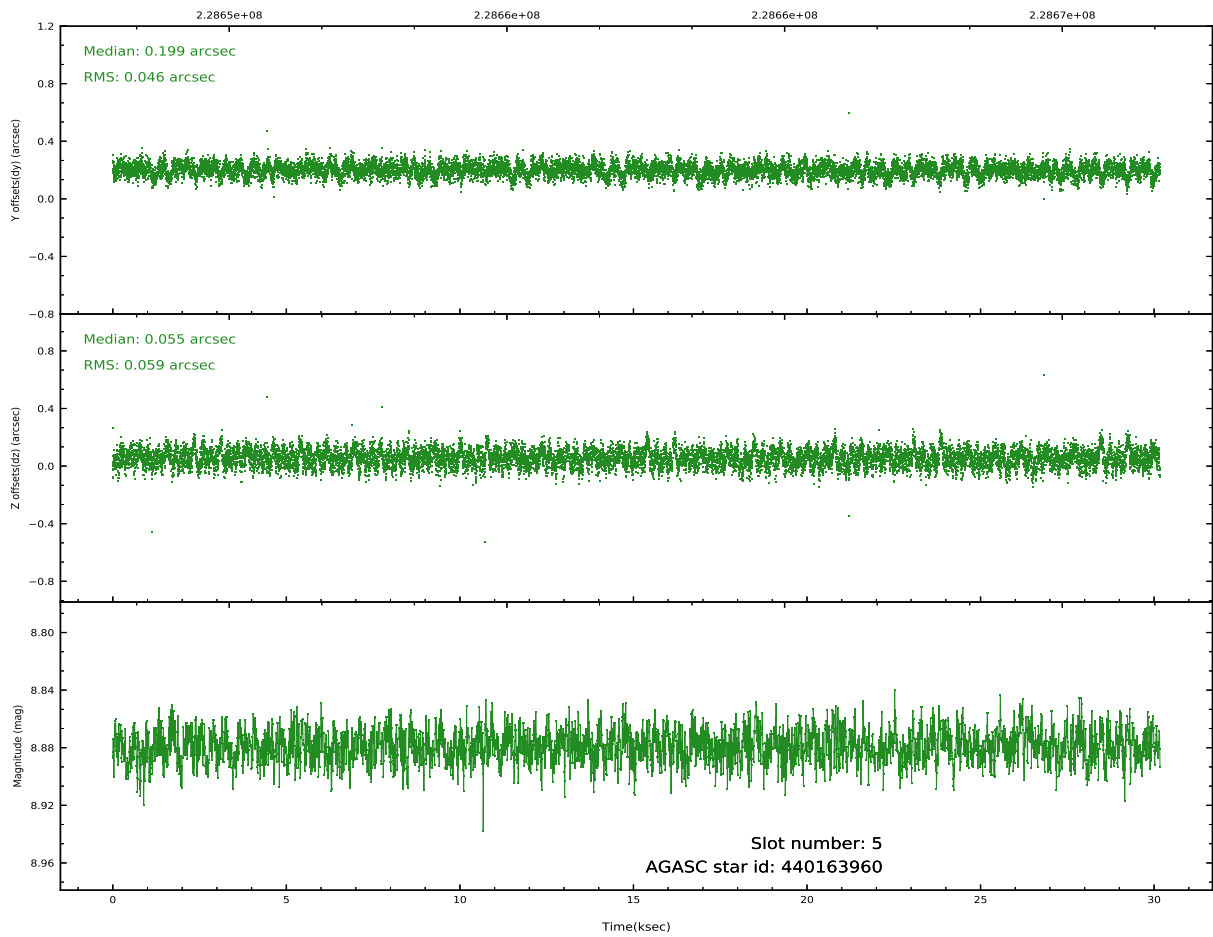
Time (s)



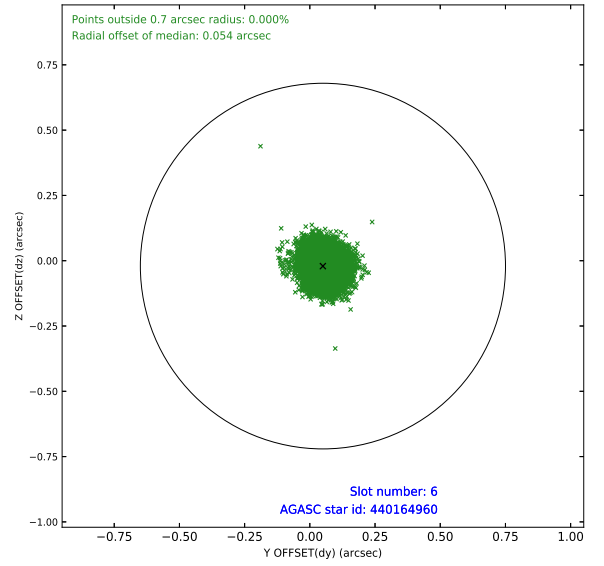
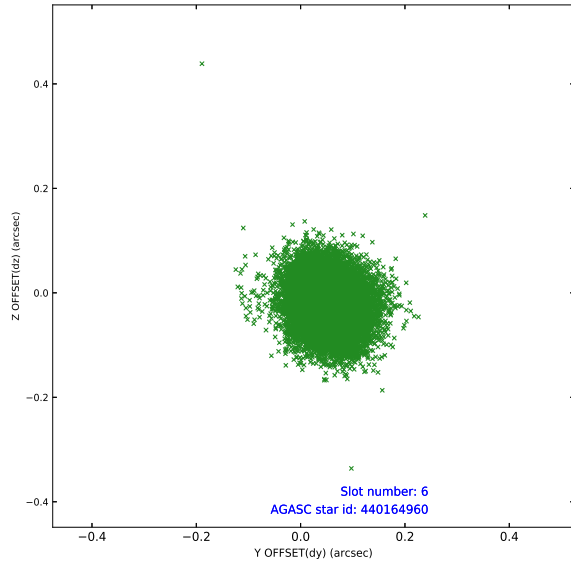
2.4.3 Slot 5



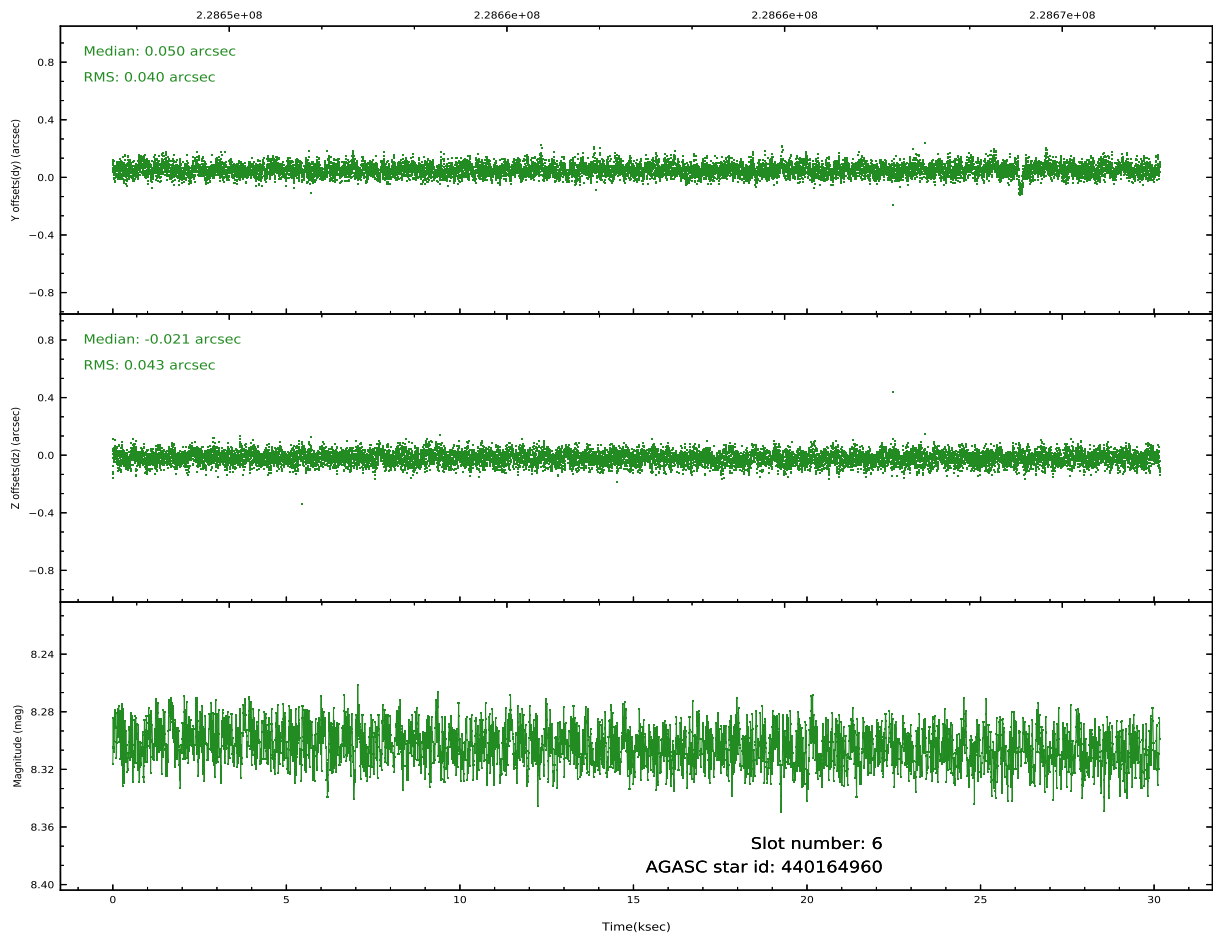
Time (s)



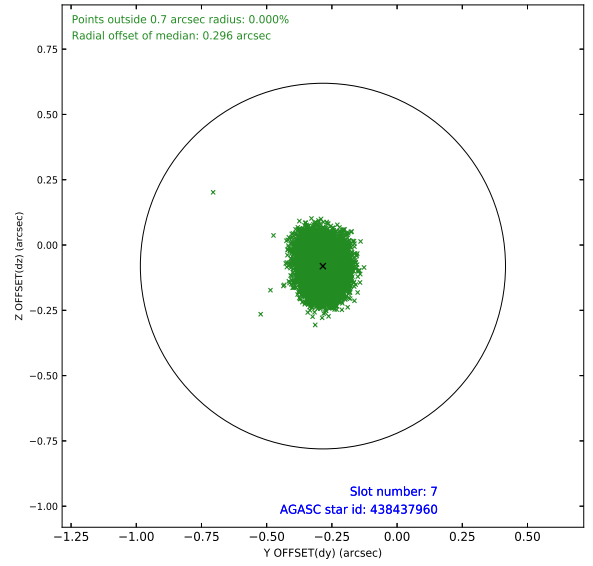
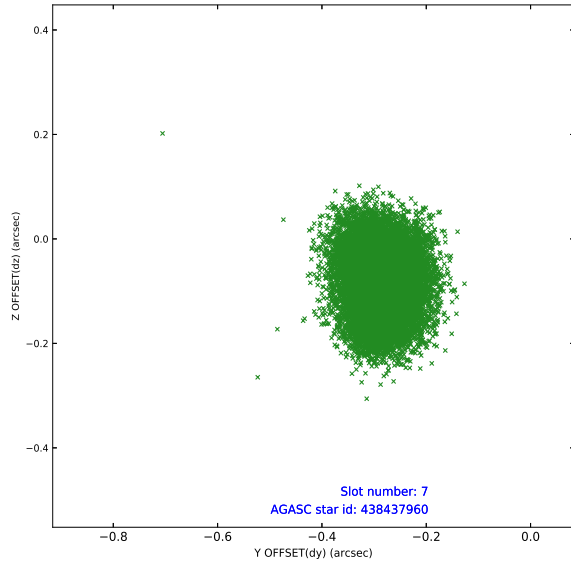
2.4.4 Slot 6



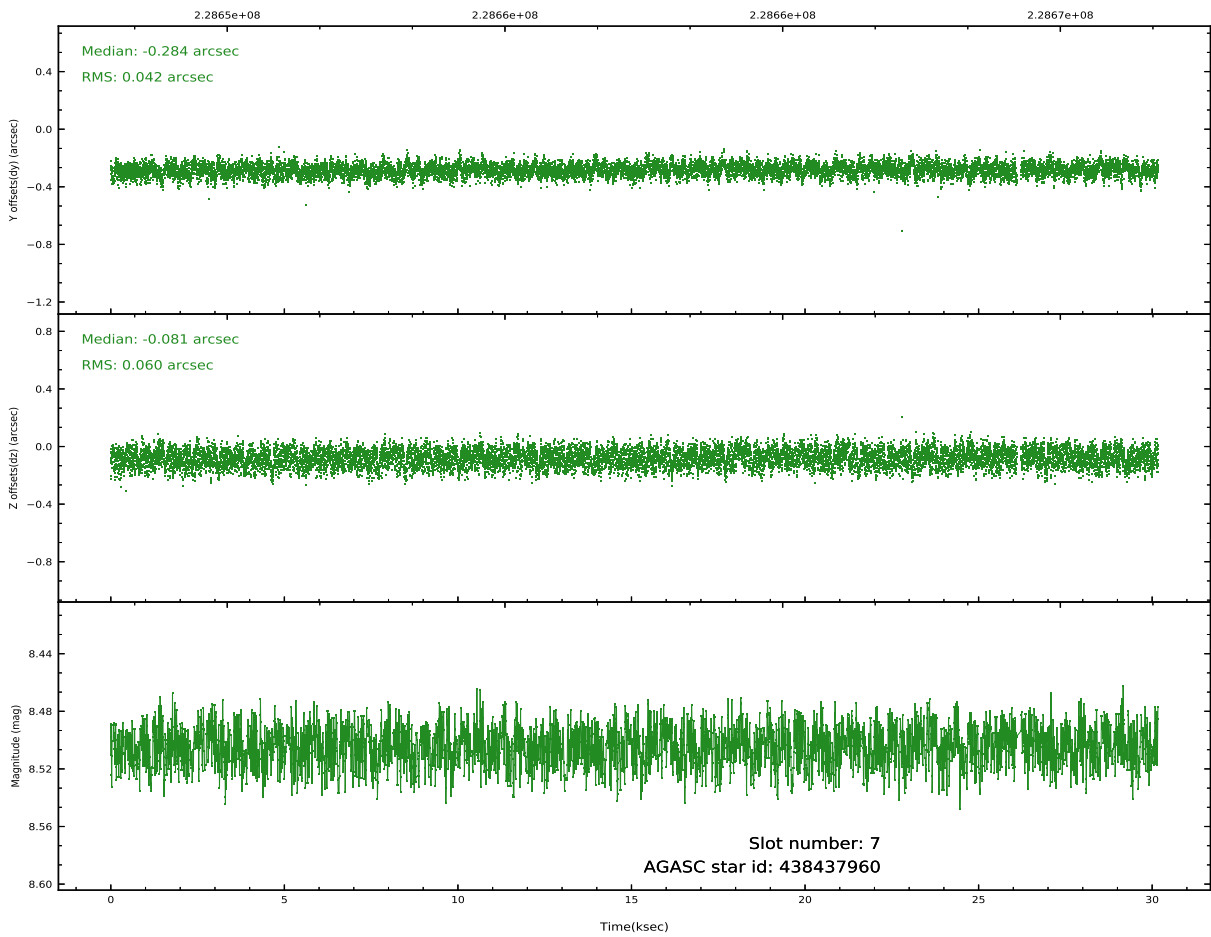
Time (s)



2.4.5 Slot 7

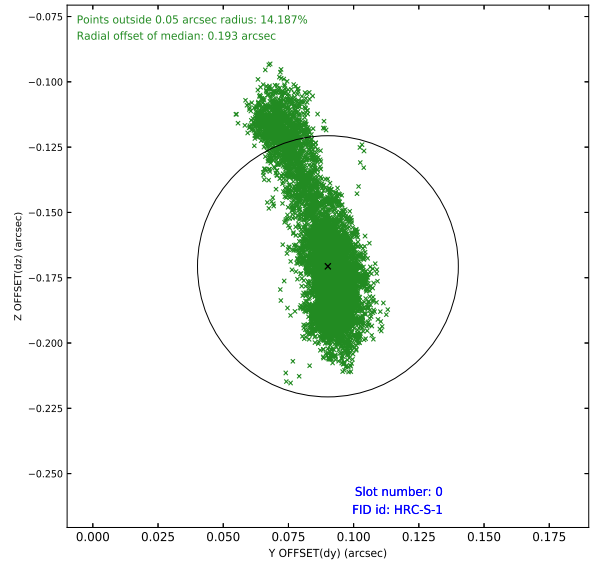
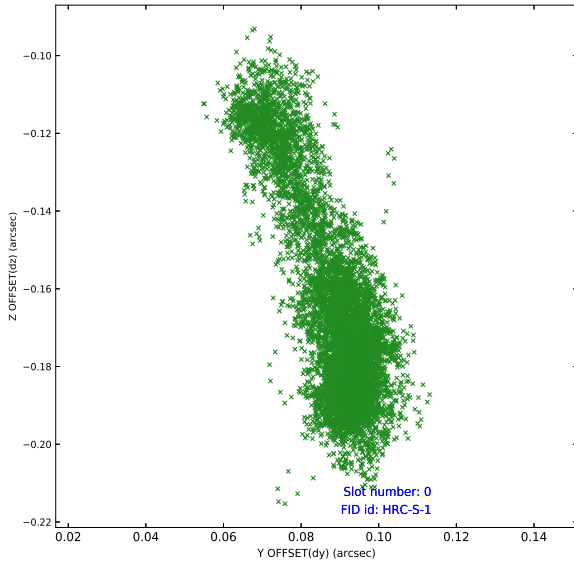


Time (s)

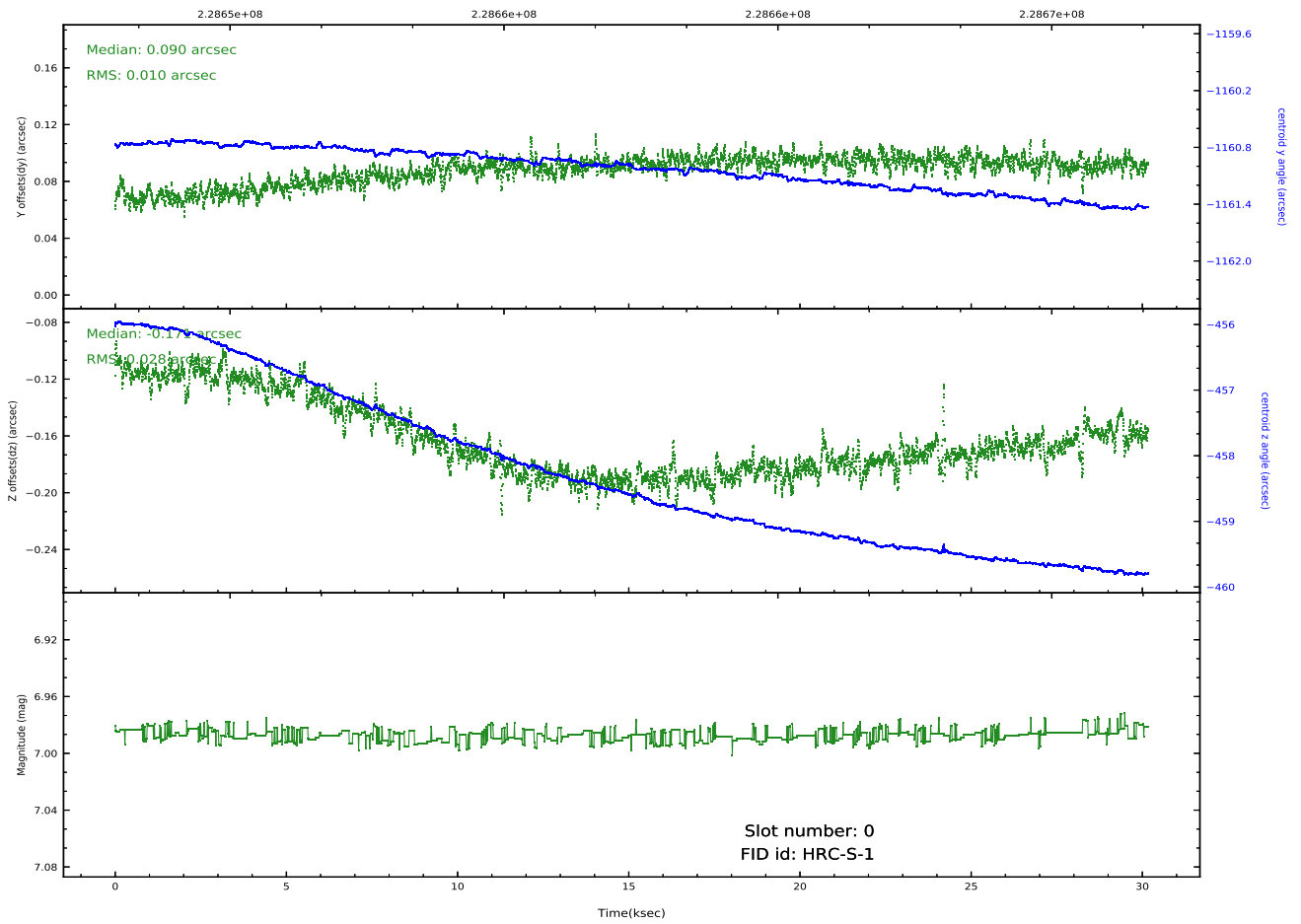


2.5 FID Slots

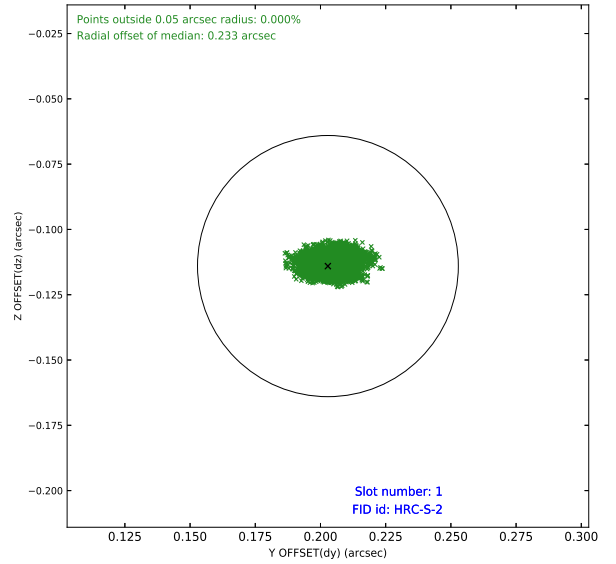
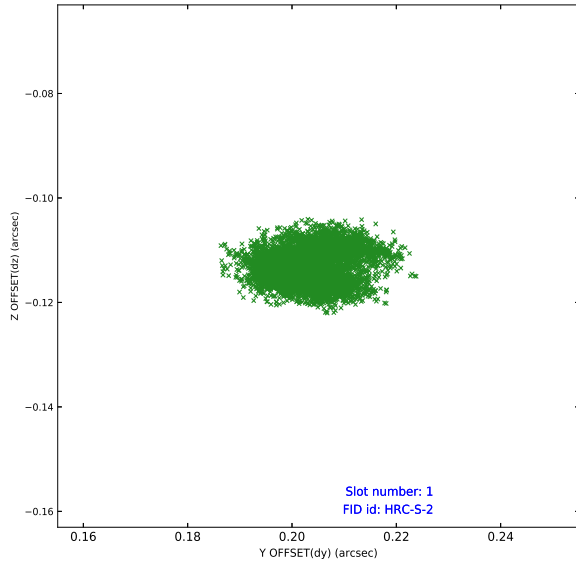
2.5.1 Slot 0



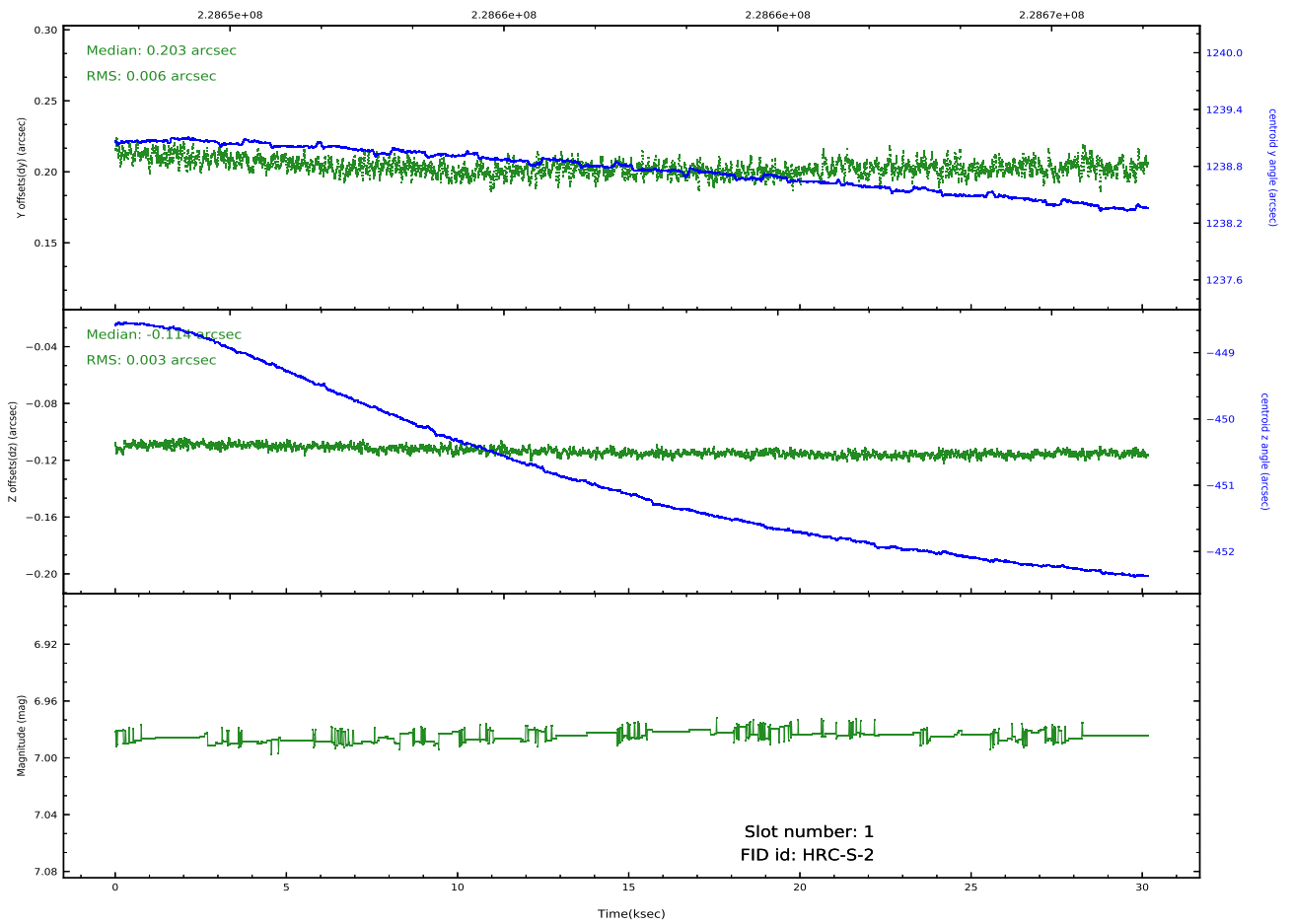
Time (s)



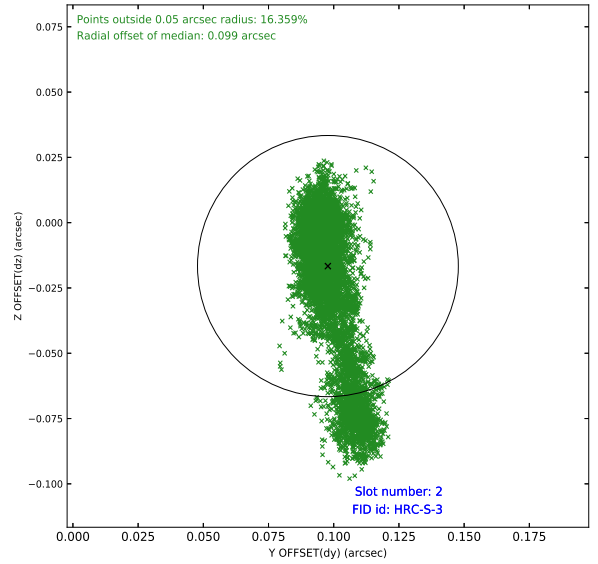
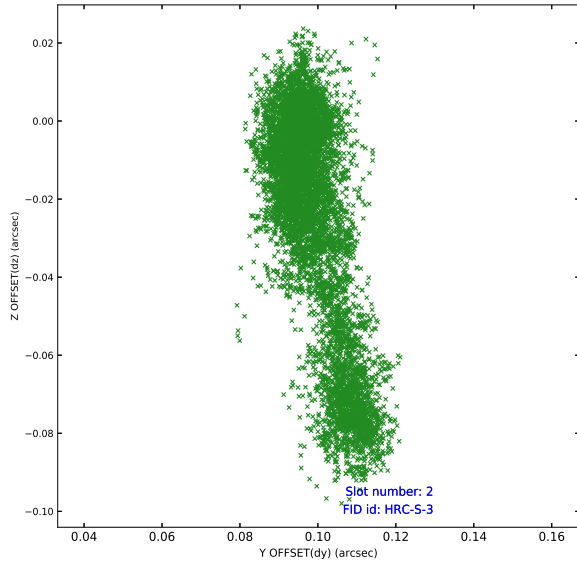
2.5.2 Slot 1



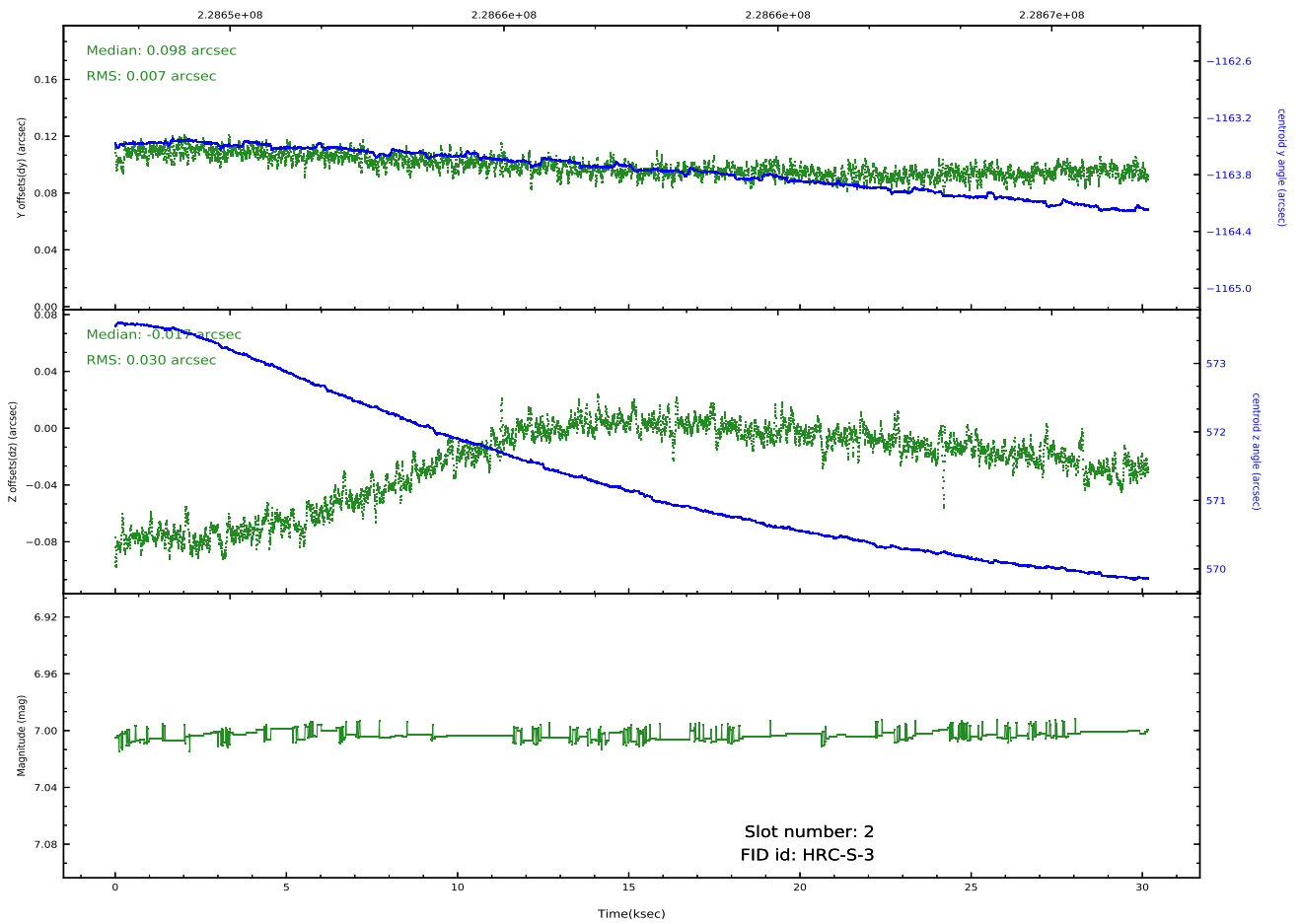
Time (s)



2.5.3 Slot 2

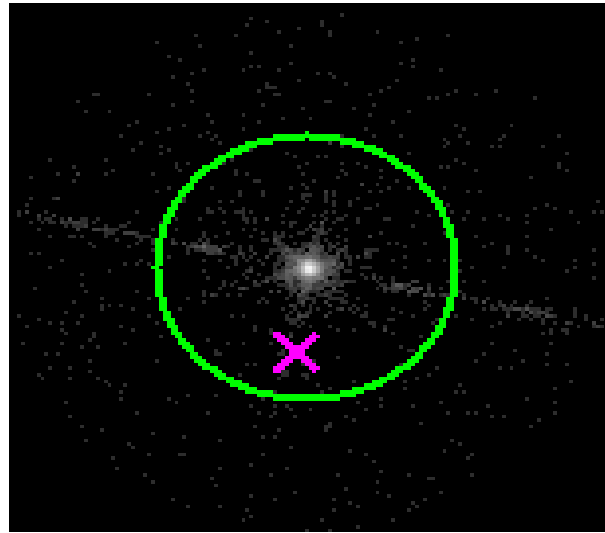


Time (s)

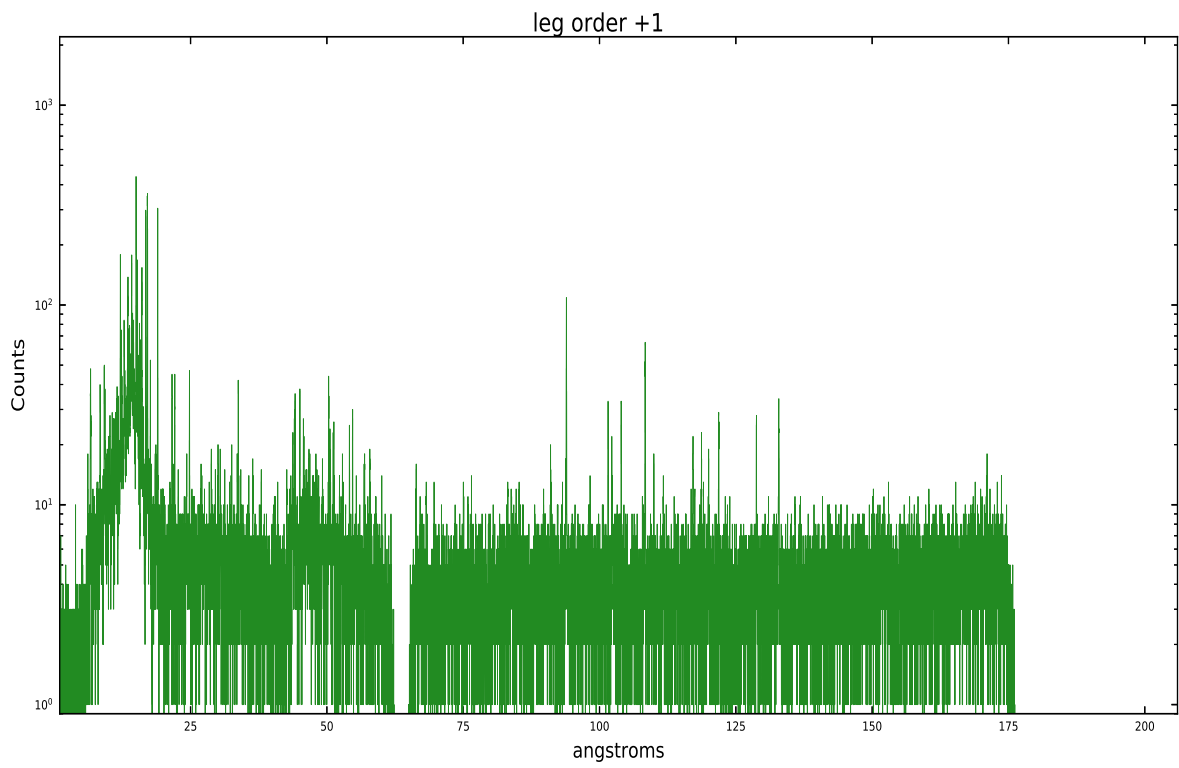
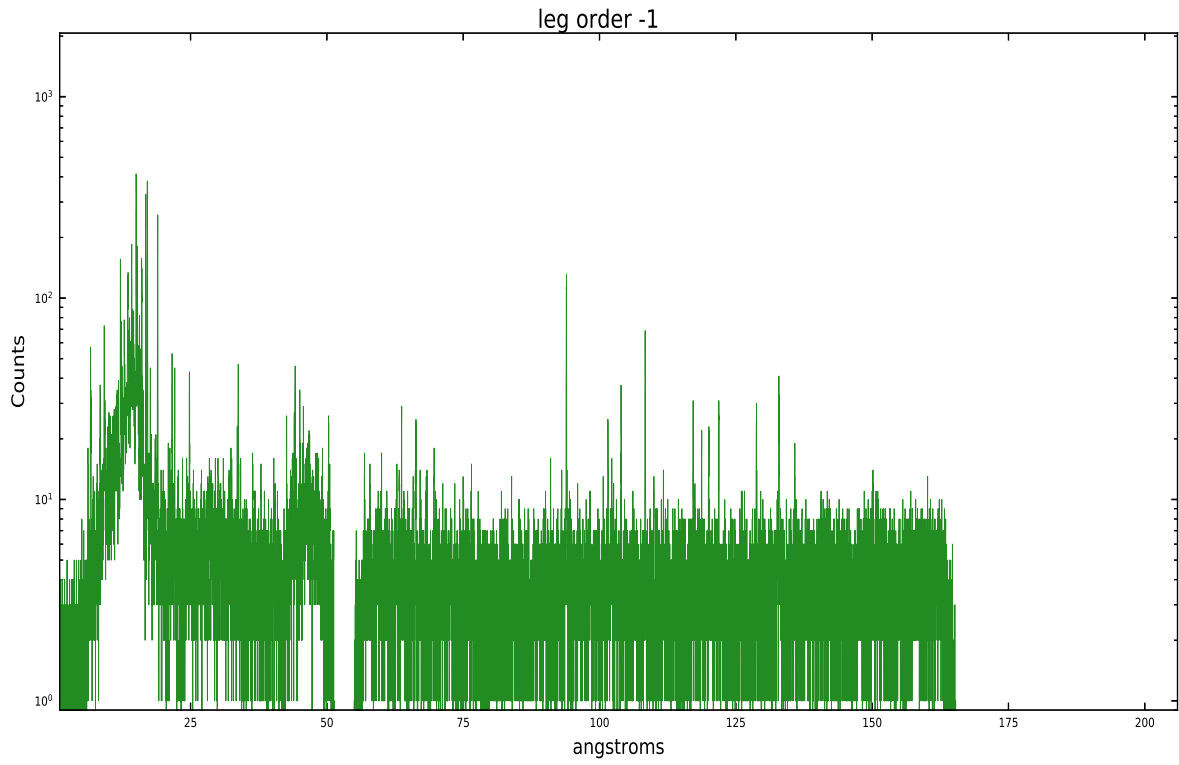


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.17318

A.2 Comments

Aspect review determined that large SIM dz drift is just a thermal issue.