

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5175 - L2 Version 7
Chandra X-Ray Center

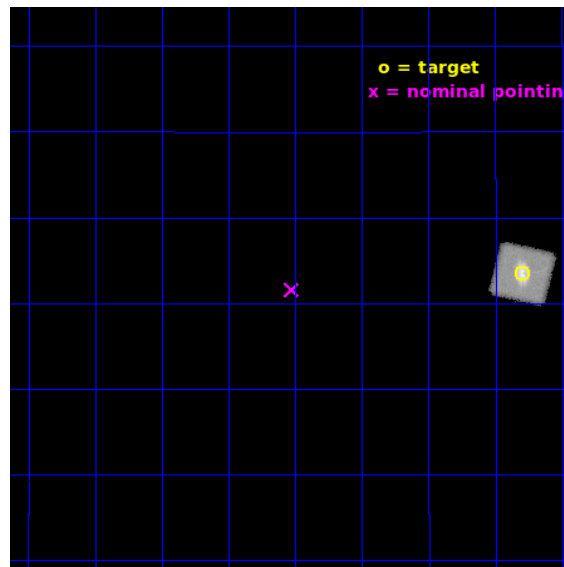
L2 Processing Date : Oct 5 2020

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1 Front

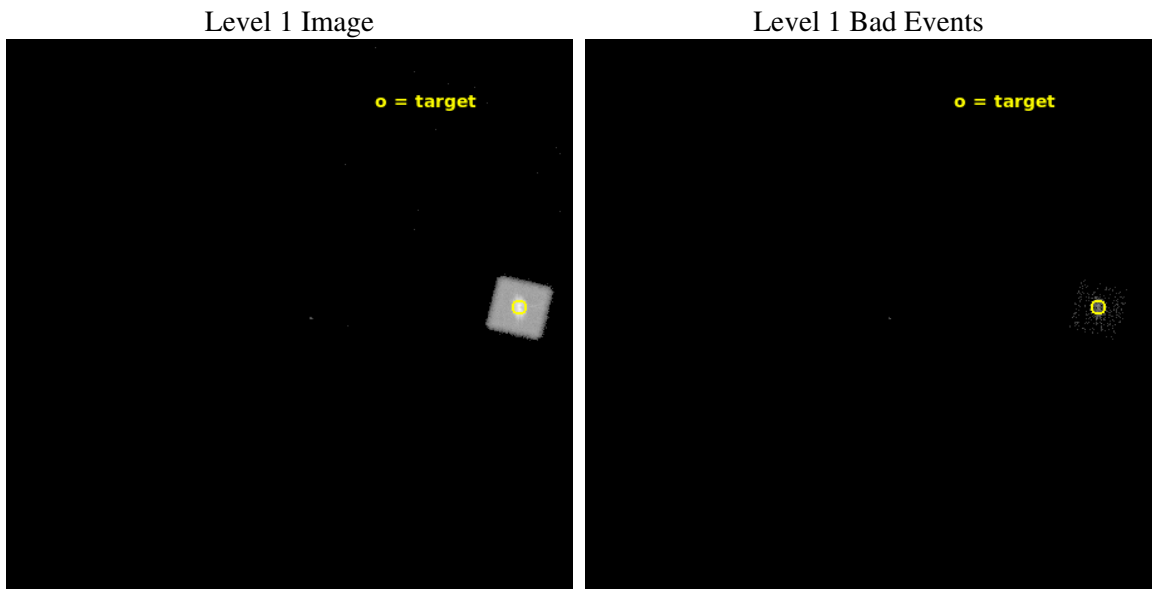
seq_num	990003	Sequence number
obs_id	5175	Observation id
title	AO5 Calibration Observations of the ACIS charged particle background	
observer	Dr. CXC Calibration	Principal investigator
object	Procyon	Source name
ra_targ	114.8245	Observer's specified target RA [deg]
dec_targ	5.223583	Observer's specified target Dec [deg]
ra_nom	115.25626248542	Nominal RA [deg]
dec_nom	5.1931188571313	Nominal Dec [deg]
roll_nom	58.452285438828	Nominal Roll [deg]
revision	7	Processing version of data
ontime	46510.402094364	[s]
livetime	39146.107818126	Ontime multiplied by DTCOR
l2events	96501	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	47000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	46543.202094376	[s]
caldbver	4.9.2	 	l1events	120552	Number of level 1 events
date	2020-10-05T12:58:56	Date and time of file creation			
revision	7	Processing version of data			

2.1.3 Events

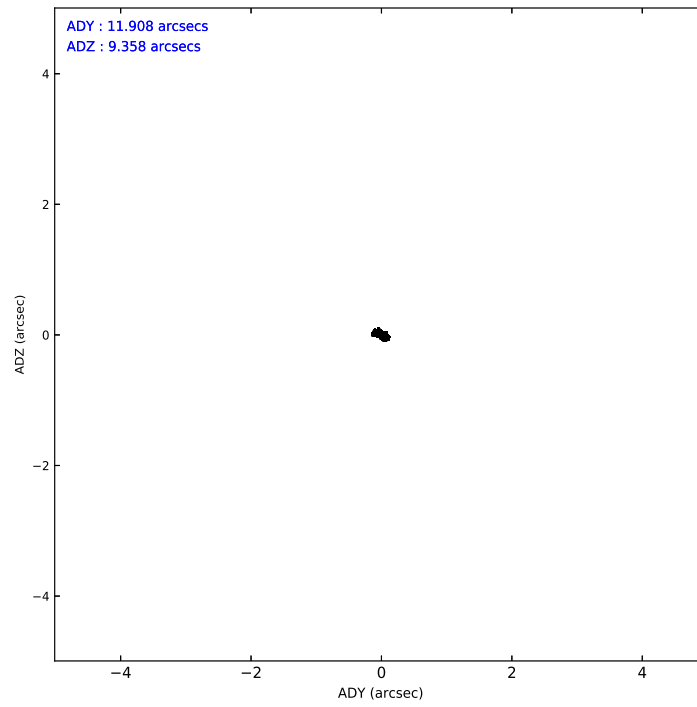
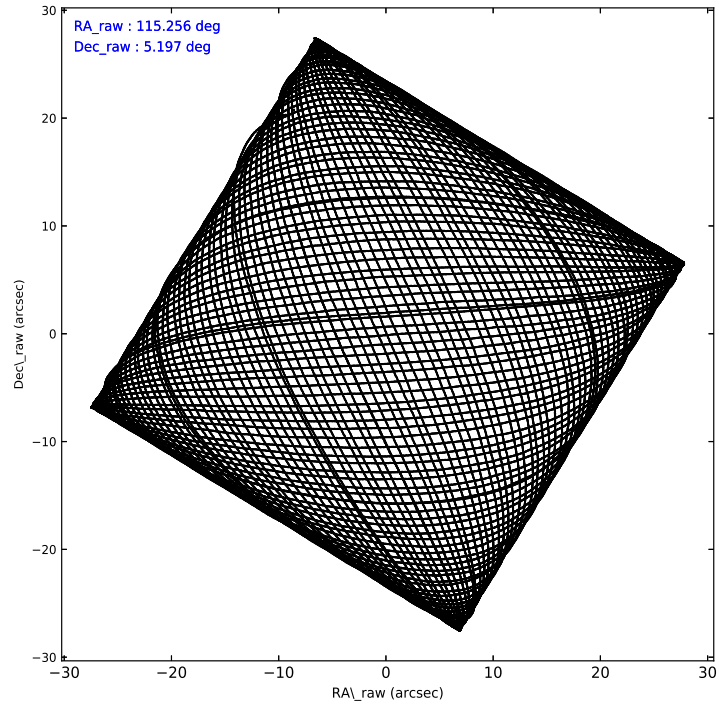
Level 1 Events

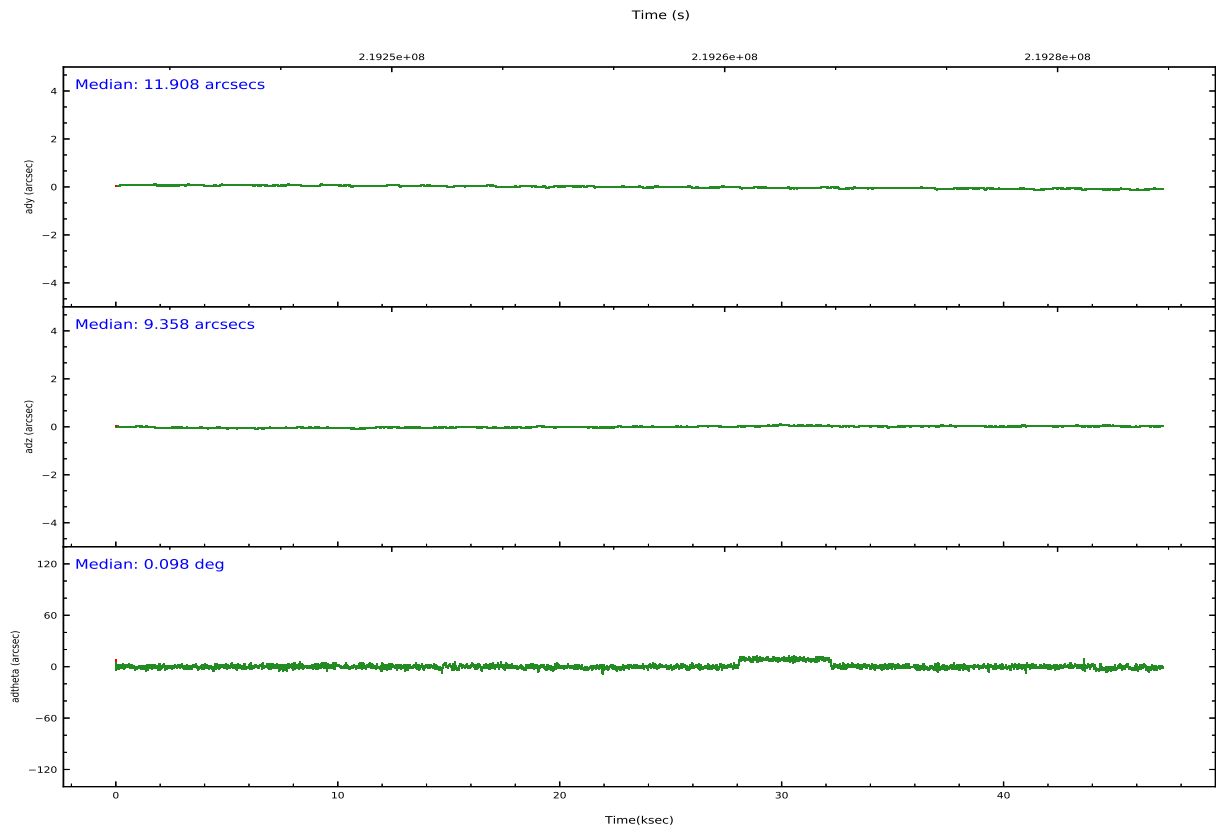
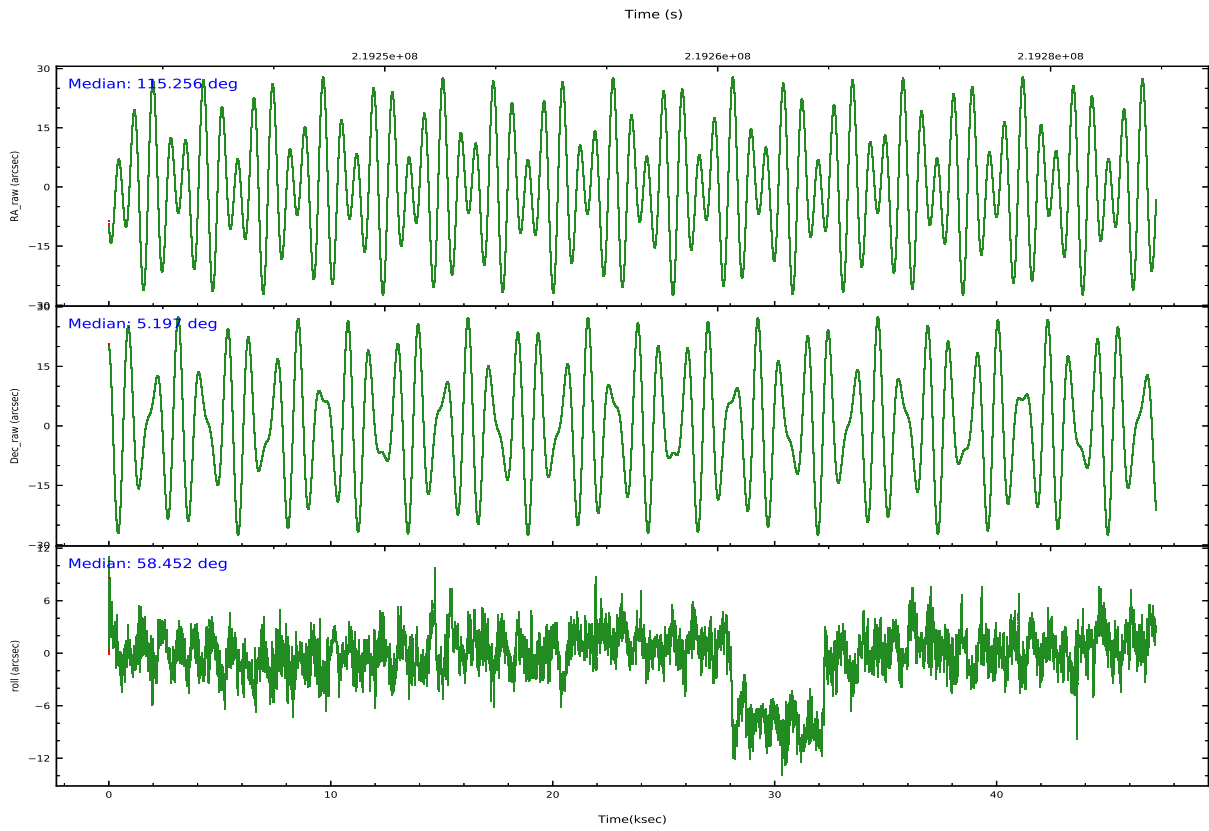
	segment 0
level 1 events	120552
rejected events	2388
rejected %	1%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	8	8
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	NEXT_IN_LINE	NEXT_IN_LINE			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	115.2557418521788	115.25626248542			
[deg] Pointing Dec	5.197440666923644	5.1931188571313			
[deg] Pointing Roll	58.55560457385924	58.452285438828			
[s] Window start time (MET)	215654464.184000	215654464.184000			
[s] Window stop time (MET)	220838464.184000	220838464.184000			
[mm] SIM focus pos	-1.038866356238299	-1.038866356238299			
[mm] SIM defocus	0.00142623211714632	0.00142623211714632			
[mm] SIM translation stage pos	51.9960404362608	51.9960404362608			
[mm] SIM translation stage offset	74.989453869027	74.989453869027			
[s] Observation start time (MET)	219237161.184	219237161.184			
Observation start date	2004-12-12T11:21:32	2004-12-12T11:12:41			
[s] Observation end time (MET)	219284757.48812	219284757.48812			
Observation end date	2004-12-13T00:24:52	2004-12-13T00:25:57			

2.3 Aspect



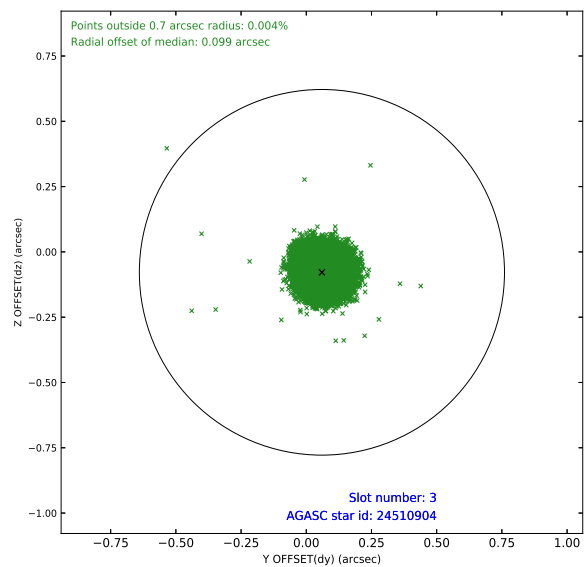
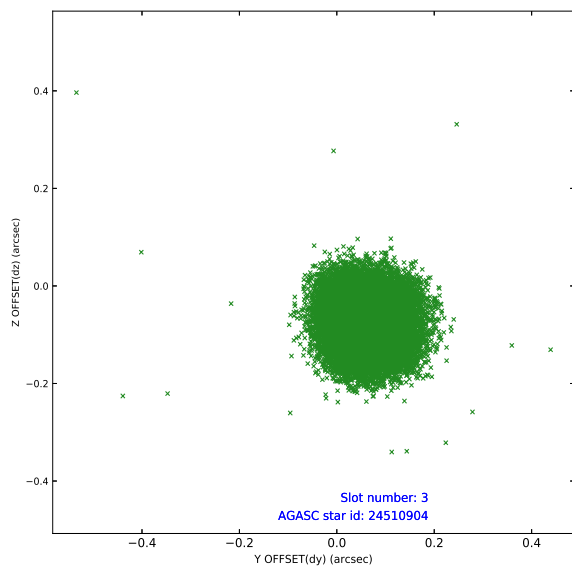


Slot Statistics

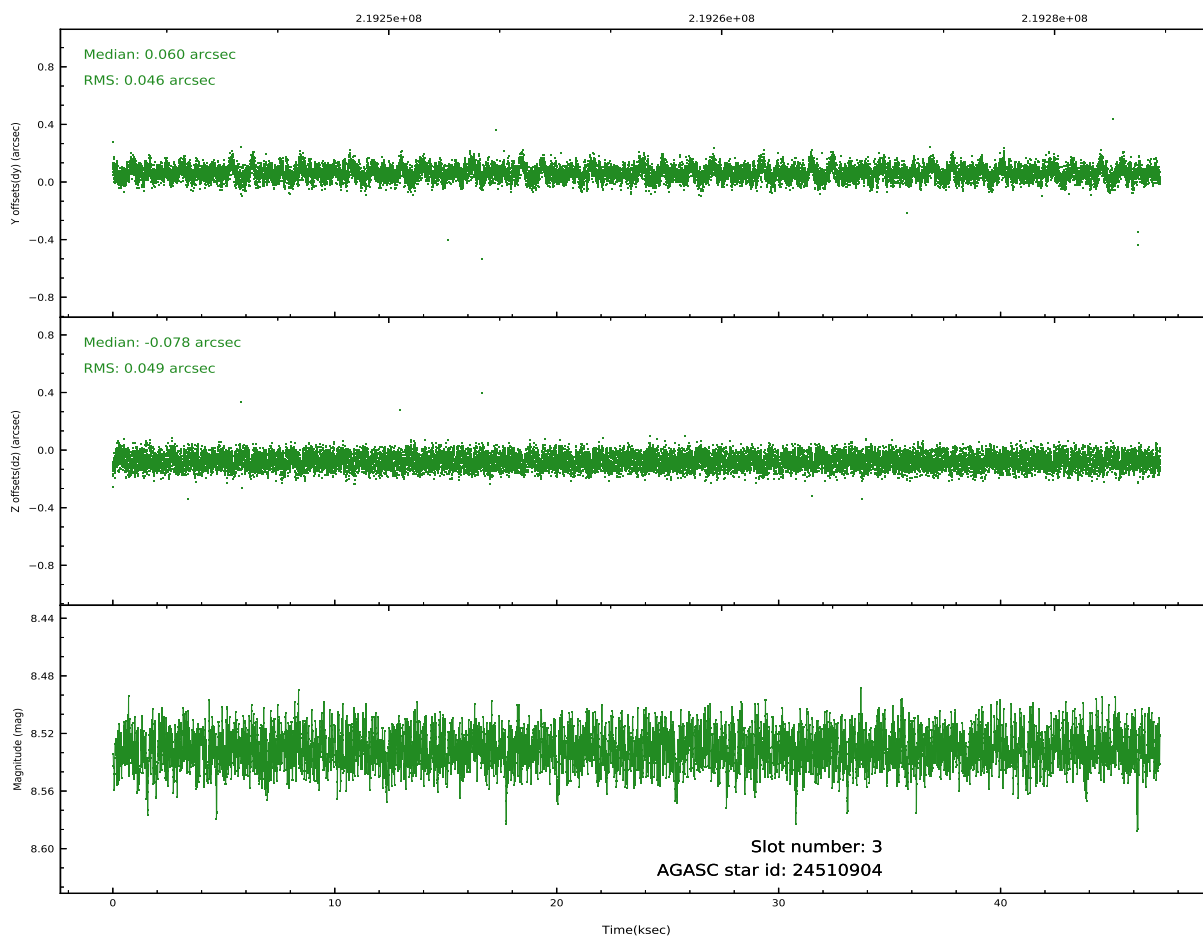
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	6.90	11508	1.000	-0.648	-0.028	0.005	0.013	0.000000	0.000000	-766.33	240
1	FID		HRC-I-2	7.03	11509	1.000	0.727	-0.026	0.005	0.013	0.000000	0.000000	844.53	241
2	UNUSED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
3	GUIDE	used	24510904	8.53	23008	1.000	0.060	-0.078	0.072	0.114	115.291057	5.593366	1366.69	684
4	GUIDE	used	24521432	7.59	23015	1.000	-0.005	0.056	0.057	0.091	115.643922	4.823397	-341.42	-1838
5	GUIDE	used	24522960	7.84	23020	1.000	0.013	0.128	0.057	0.090	115.195385	5.000625	-634.14	-133
6	GUIDE	used	24525600	8.30	23014	1.000	0.061	-0.096	0.074	0.118	114.573999	4.942945	-1970.02	1662
7	GUIDE	used	25039776	8.64	22995	1.000	-0.133	-0.009	0.057	0.093	115.184333	5.805632	1820.05	1408

2.4 Star Slots

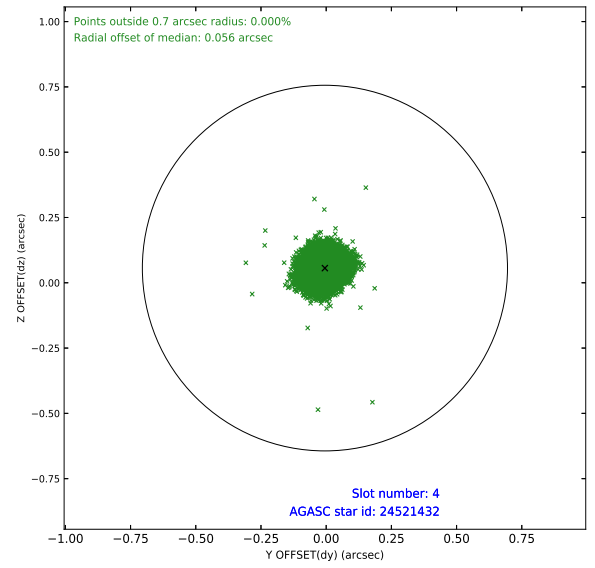
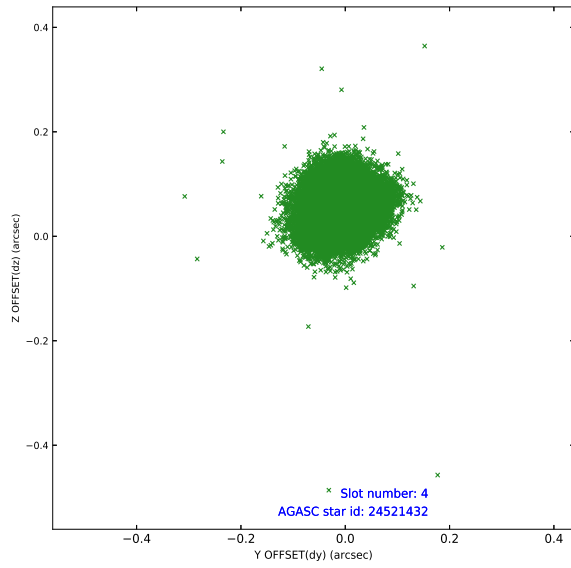
2.4.1 Slot 3



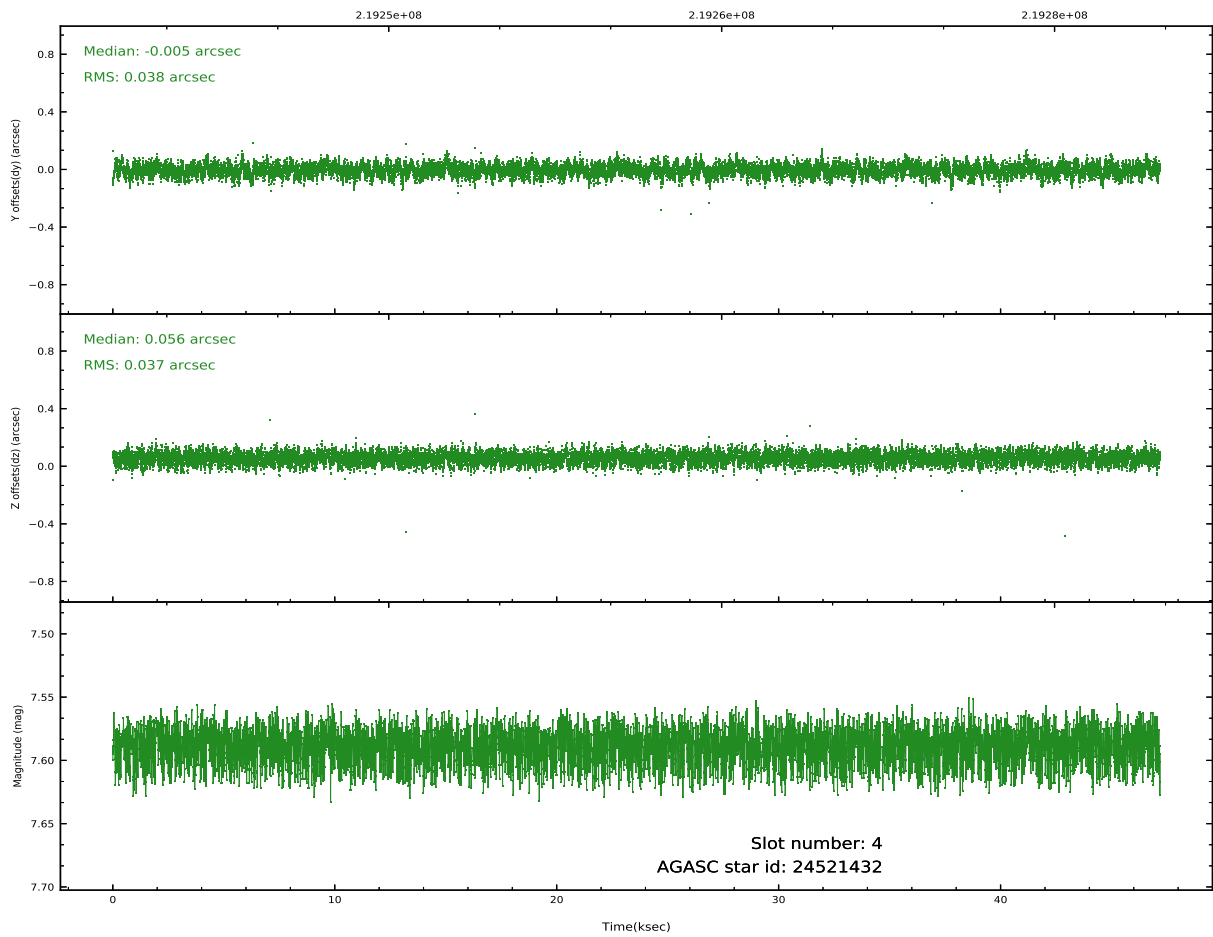
Time (s)



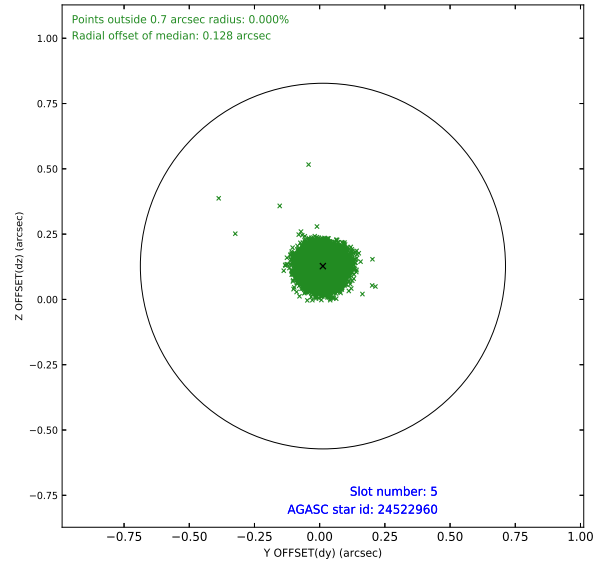
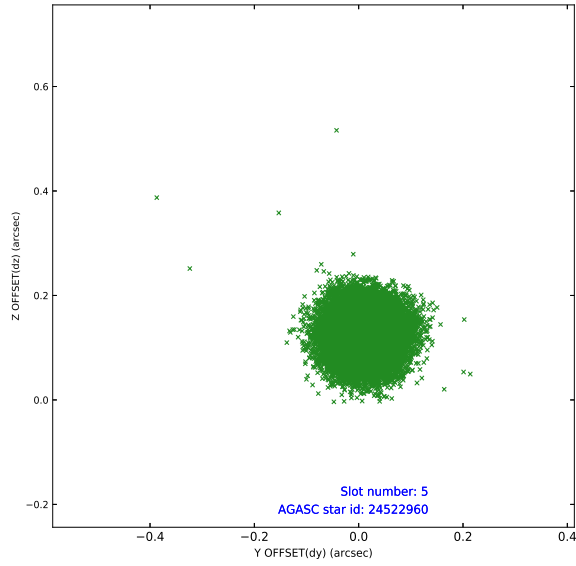
2.4.2 Slot 4



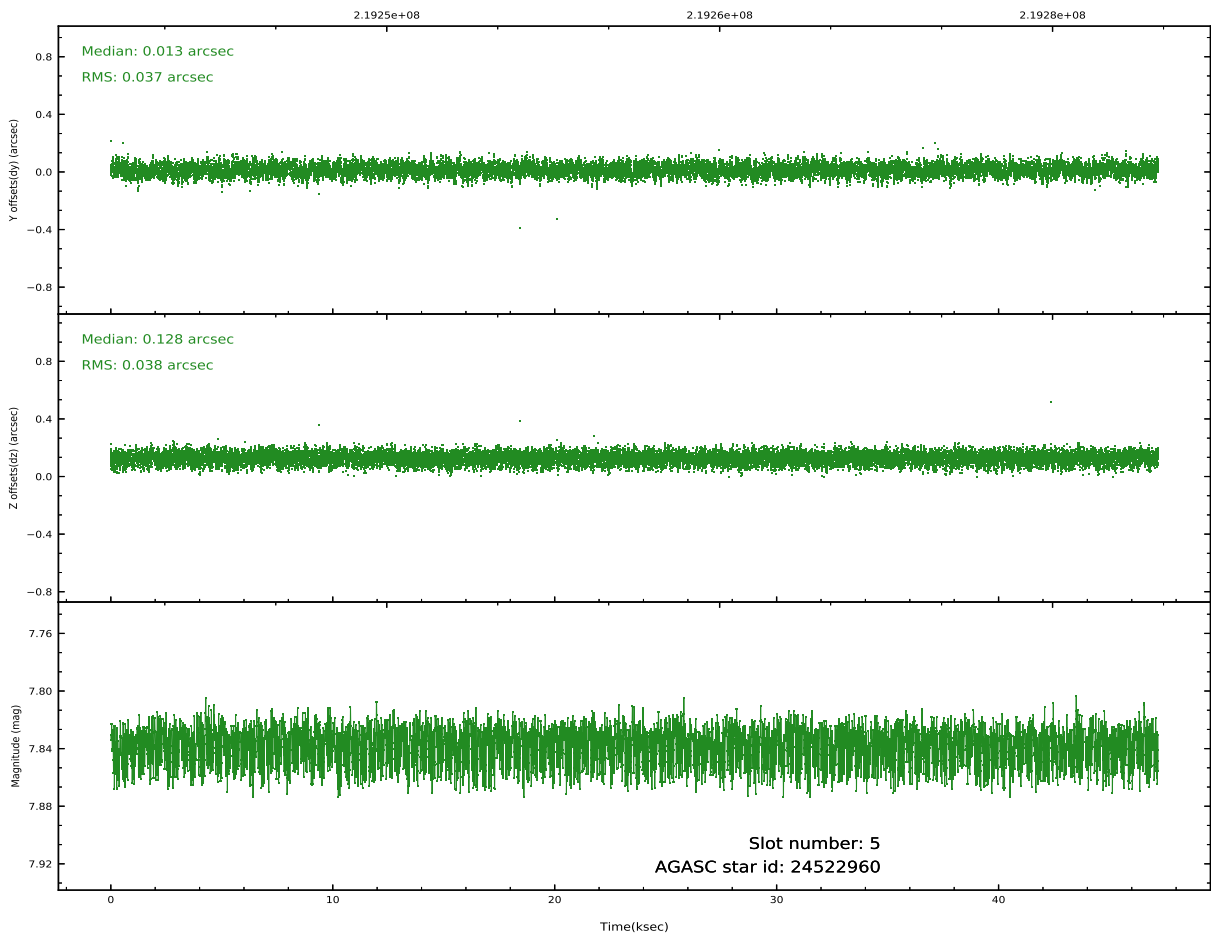
Time (s)



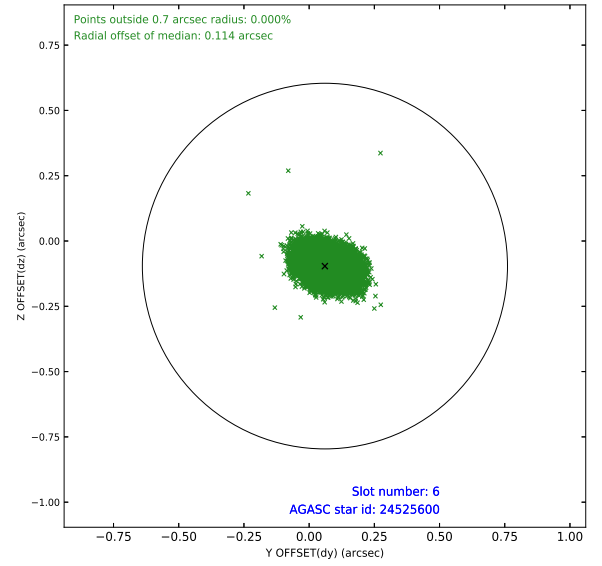
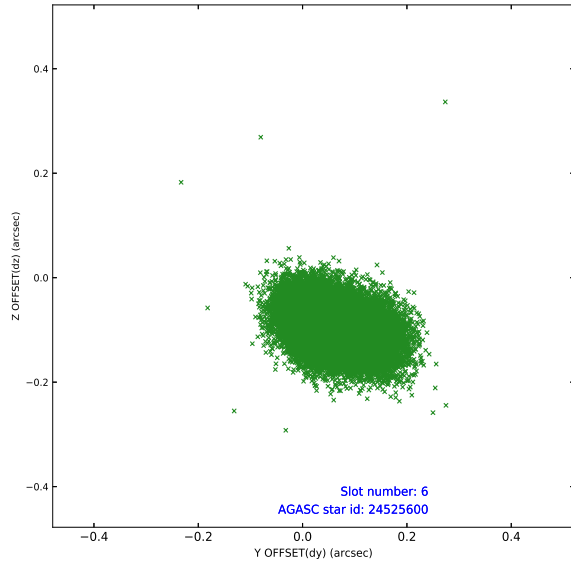
2.4.3 Slot 5



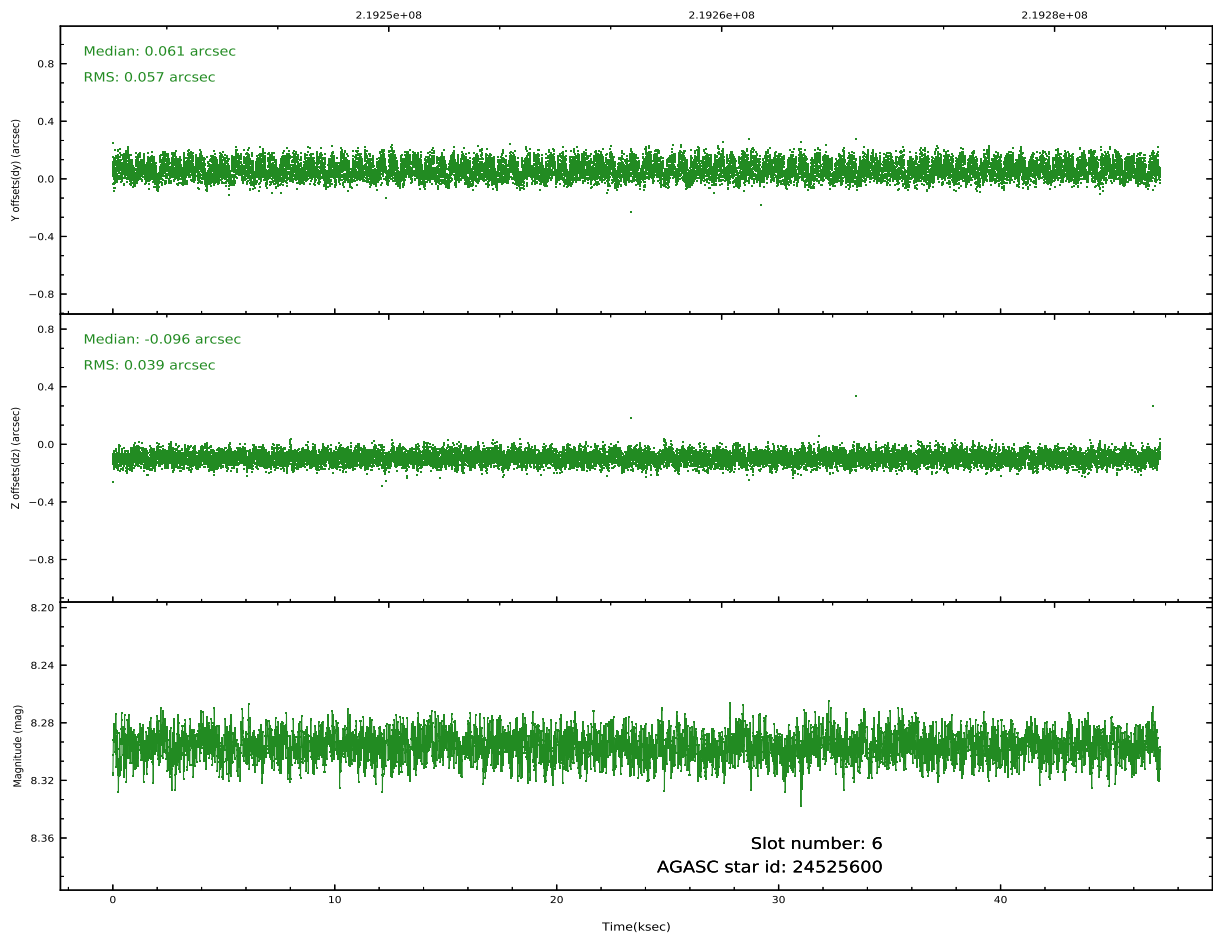
Time (s)



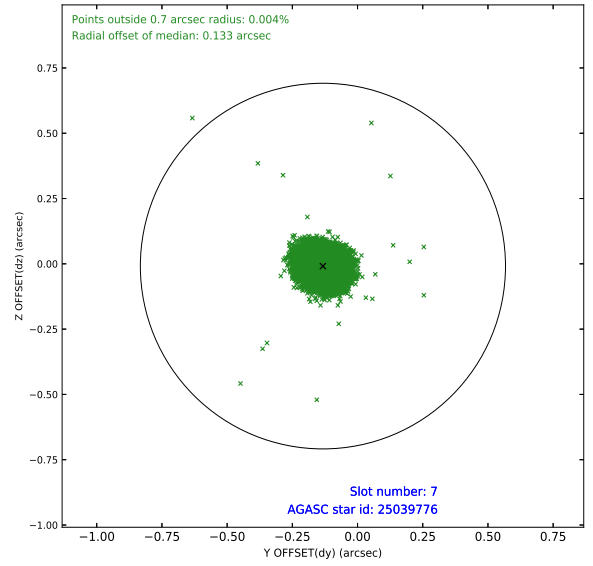
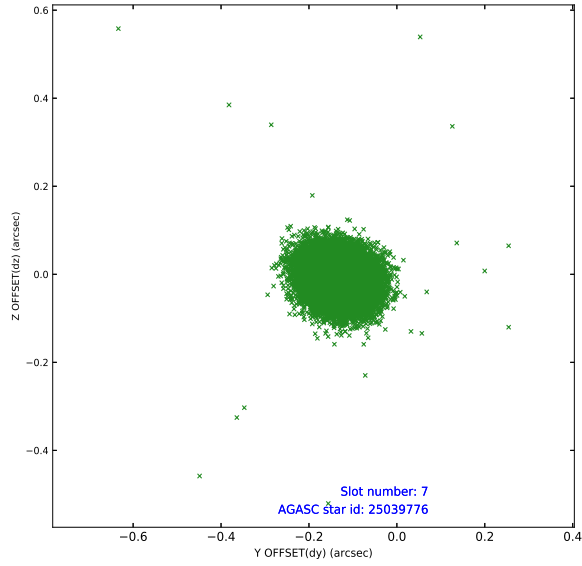
2.4.4 Slot 6



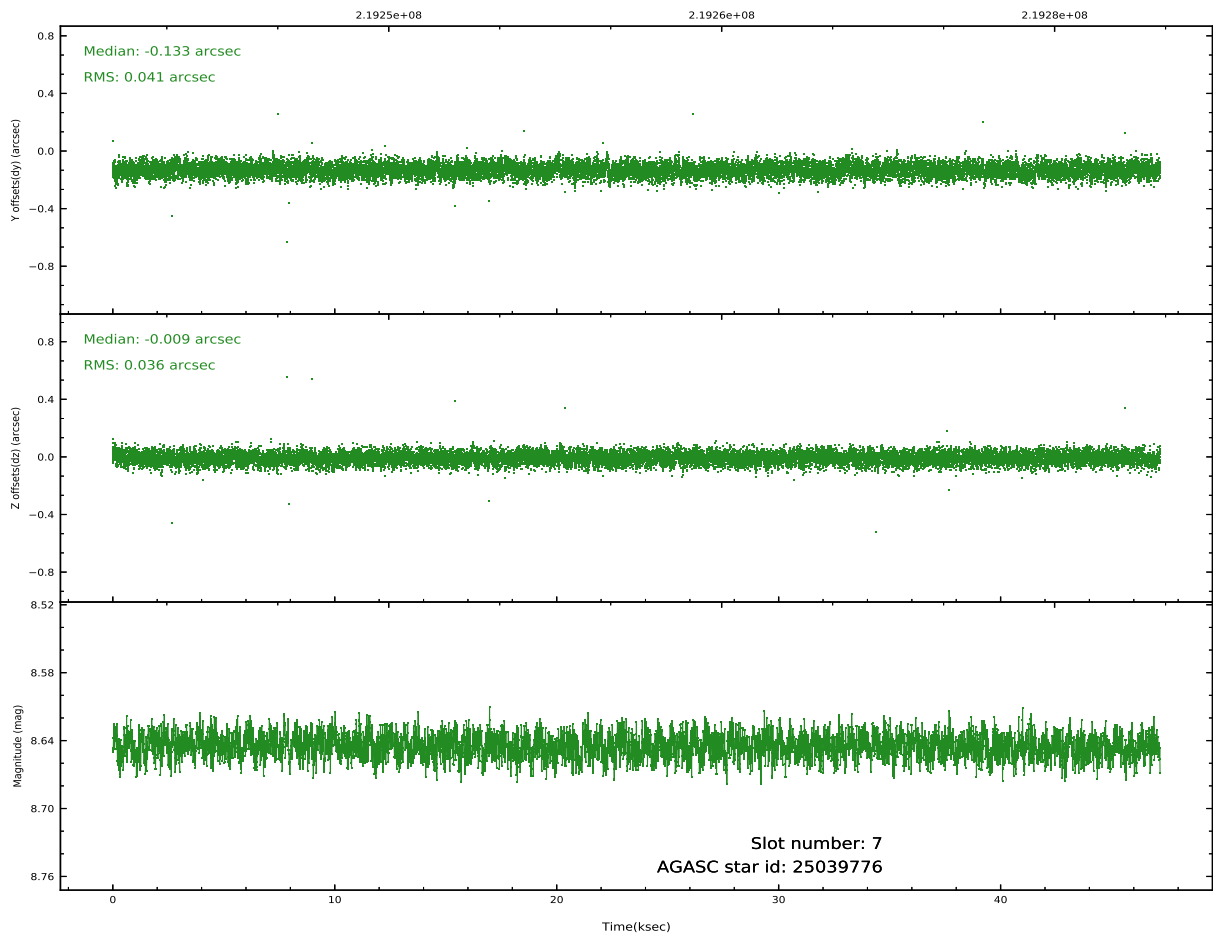
Time (s)



2.4.5 Slot 7

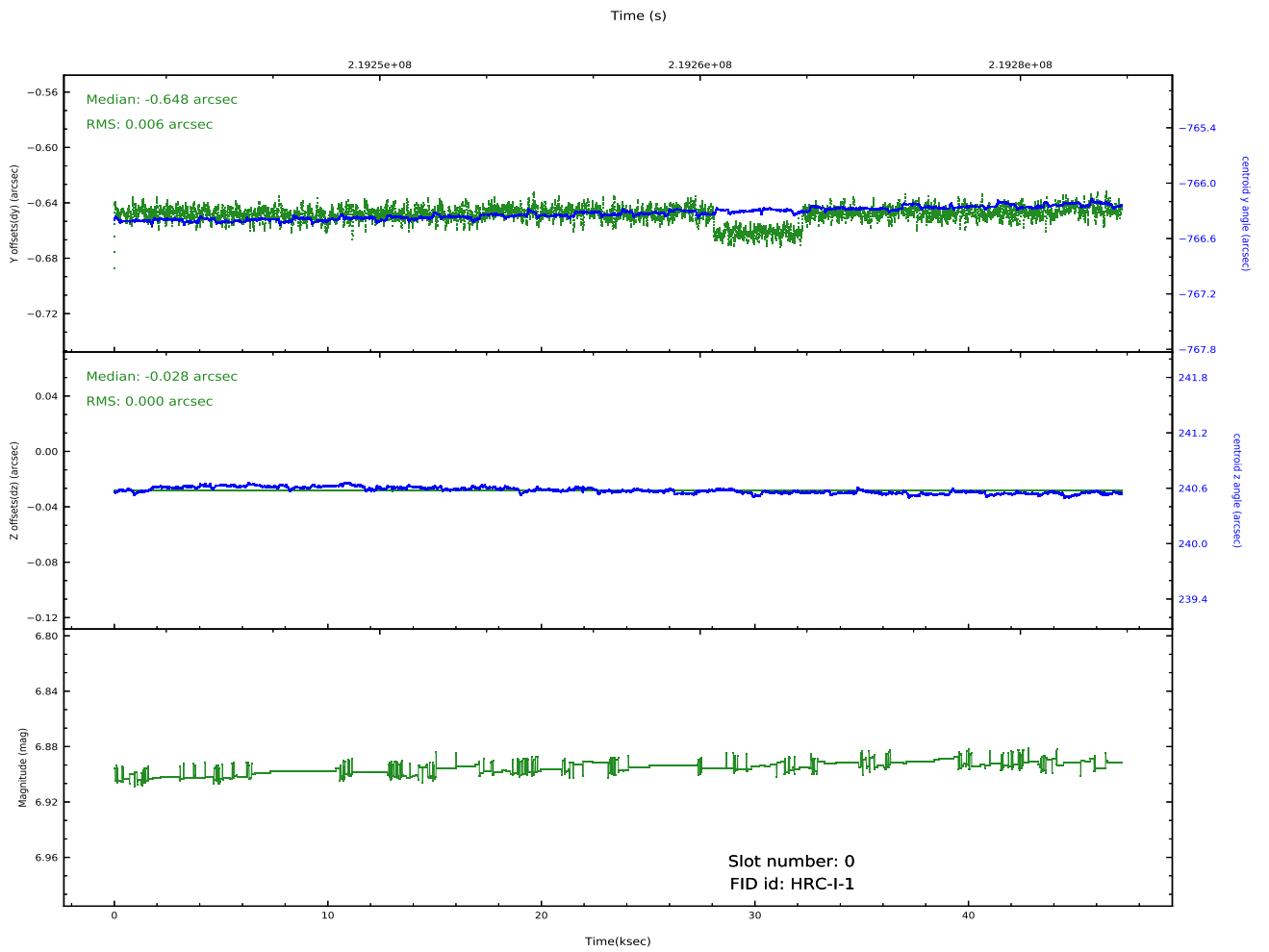
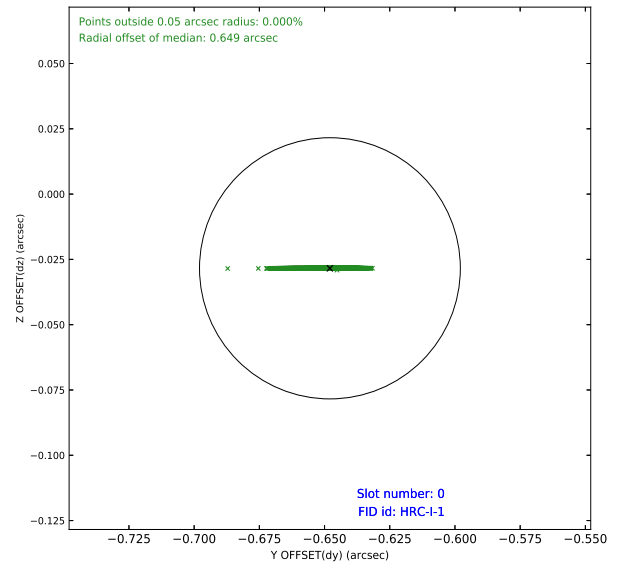
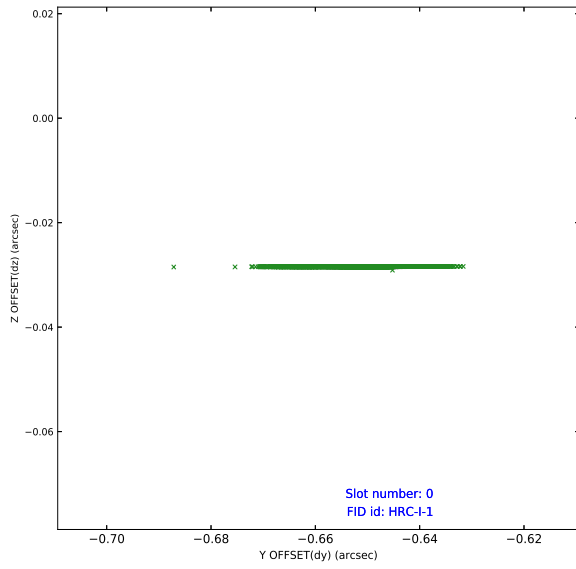


Time (s)

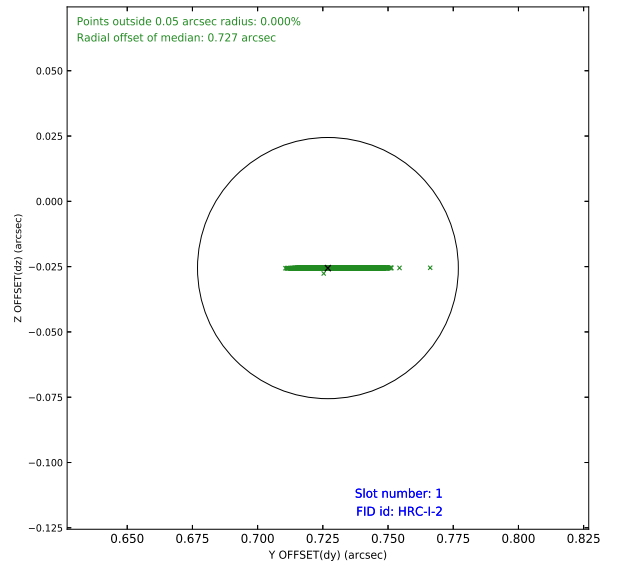
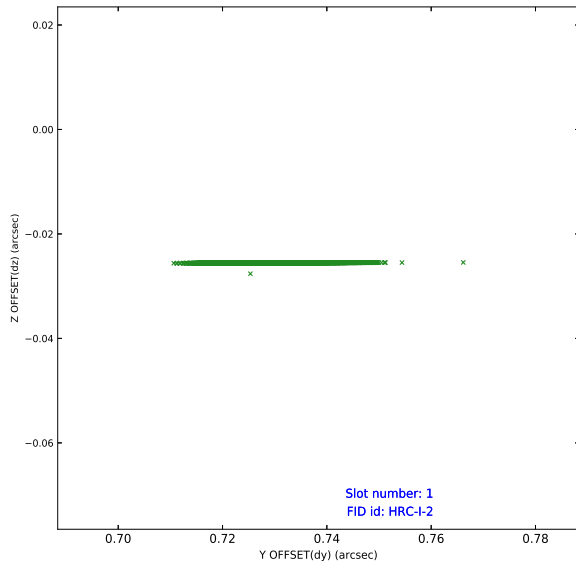


2.5 FID Slots

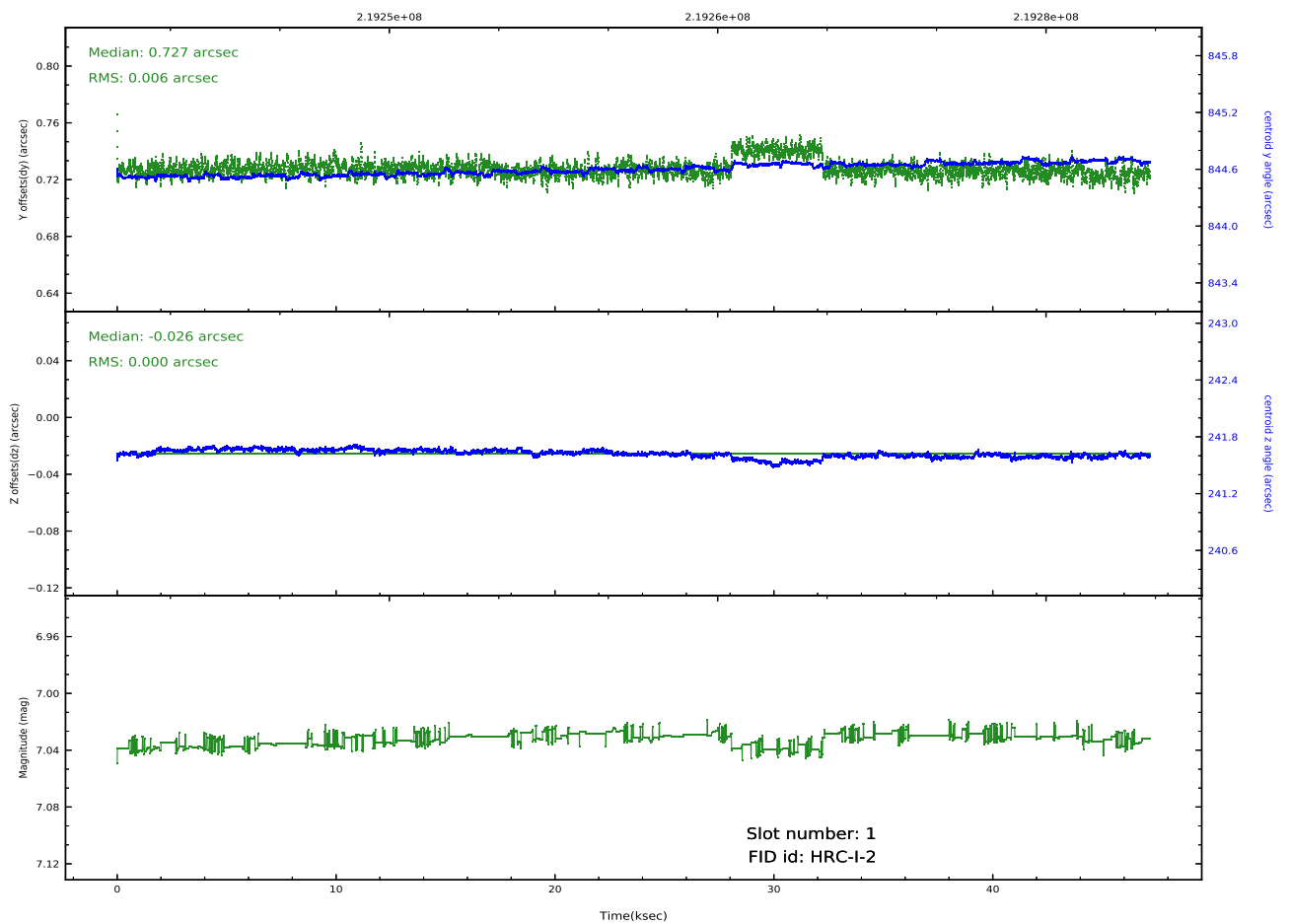
2.5.1 Slot 0



2.5.2 Slot 1



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.596

A.2 Comments

Charge time for this ObsId remains at previous value of 47.596 ksec, although with the current processing the charge time would have been 46.51 ksec.

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Fid in slot two is not used in the aspect solution. The large offsets of the other two fidlights are due to the next_in_line configuration of the detector. Window constraint met.