

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5076 - L2 Version 5
Chandra X-Ray Center

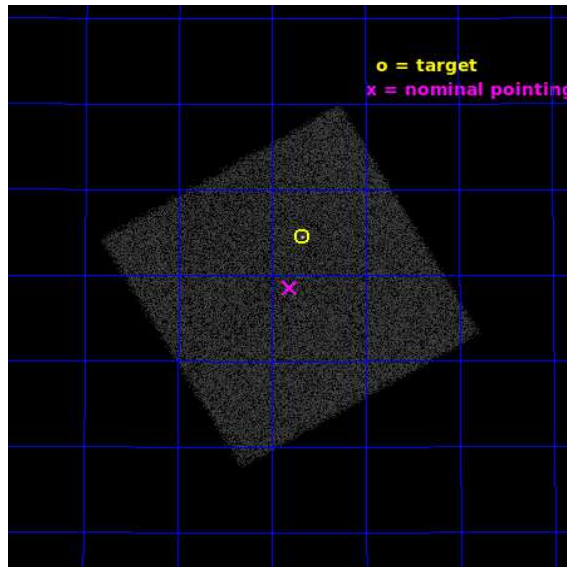
L2 Processing Date : Oct 5 2020

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1 Front

seq_num	290349	Sequence number
obs_id	5076	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I 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	332.20251075506	Nominal RA [deg]
dec_nom	45.64325215302	Nominal Dec [deg]
roll_nom	284.6000568497	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1083.4250486791	[s]
livetime	1047.9904528234	Ontime multiplied by DTCOR
l2events	84728	Number of level 2 events

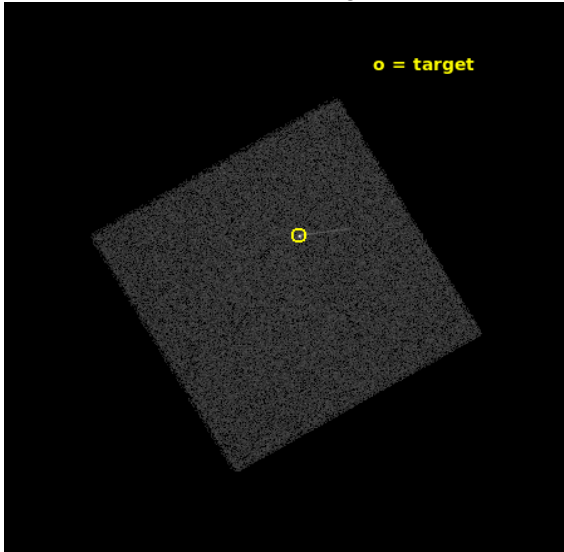


2 OBI

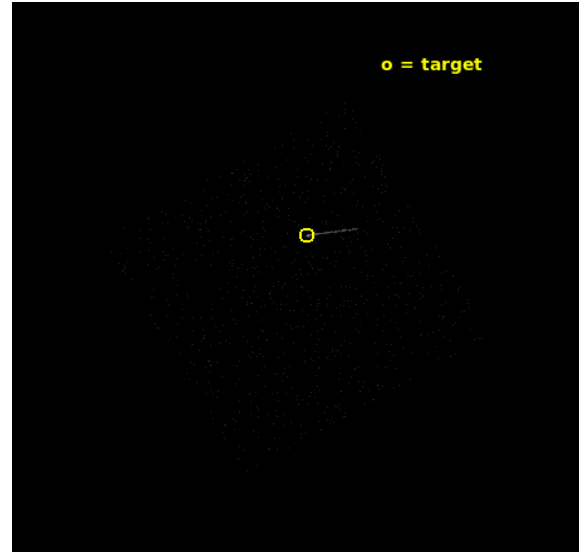
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	900.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1083.4250486791	[s]
caldbver	4.9.2	 	l1events	149584	Number of level 1 events
date	2020-10-05T06:48:54	Date and time of file creation			
revision	5	Processing version of data			

2.1.3 Events

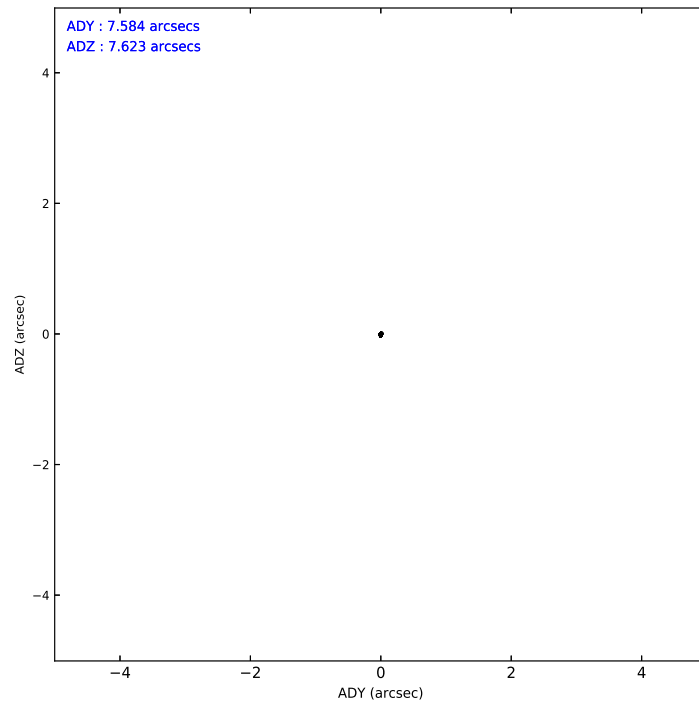
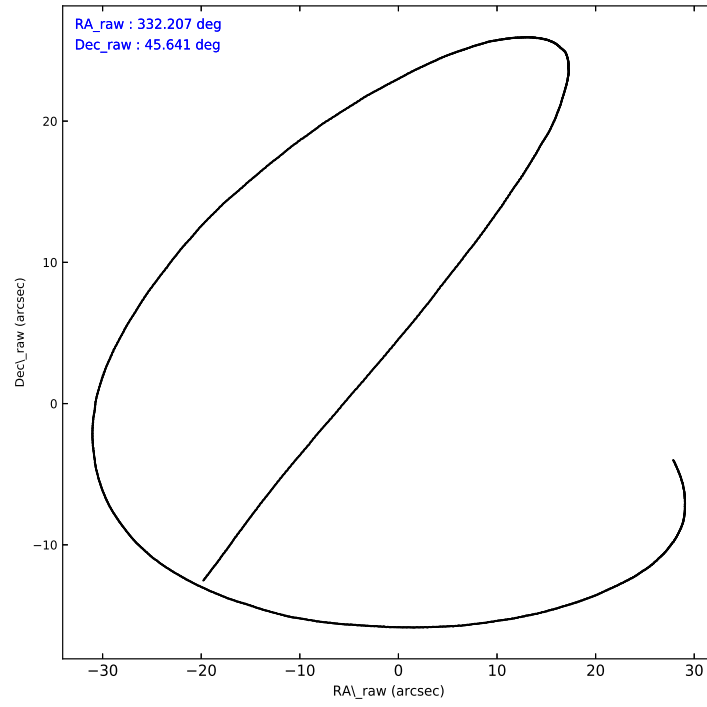
Level 1 Events

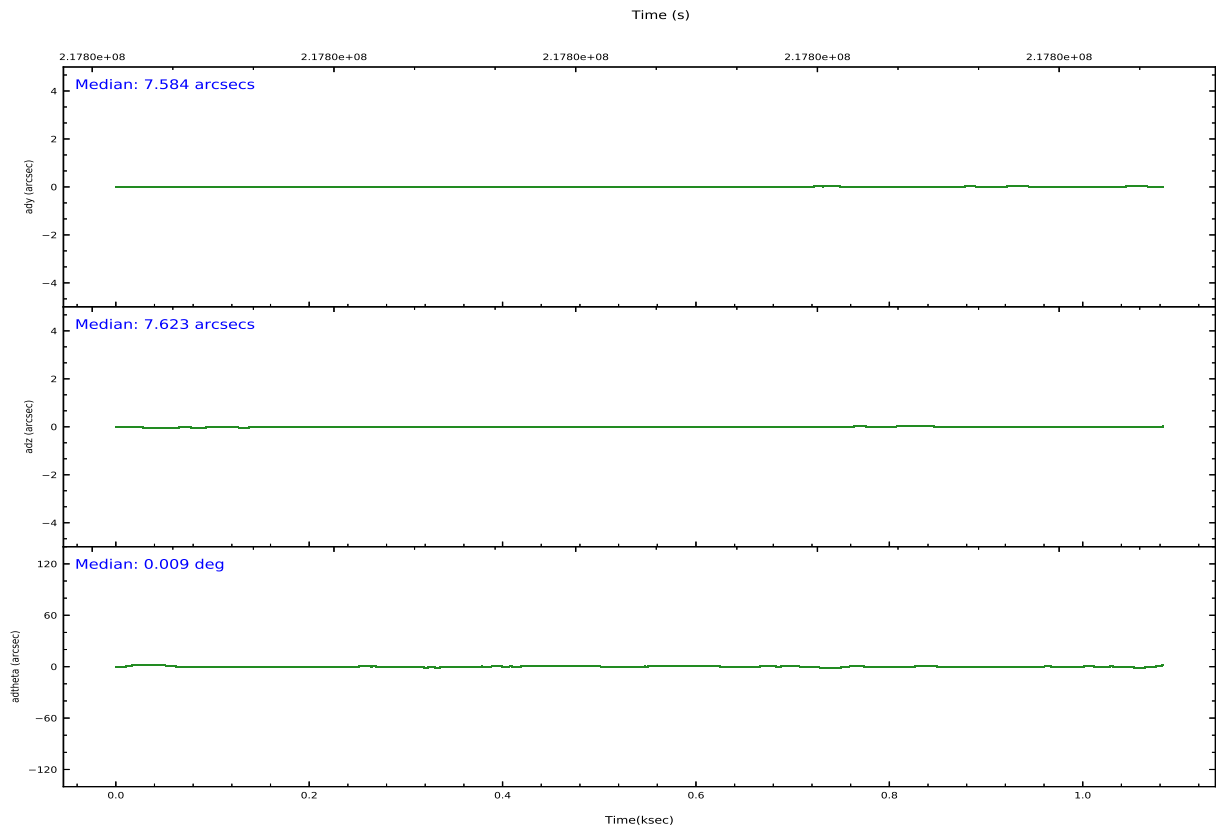
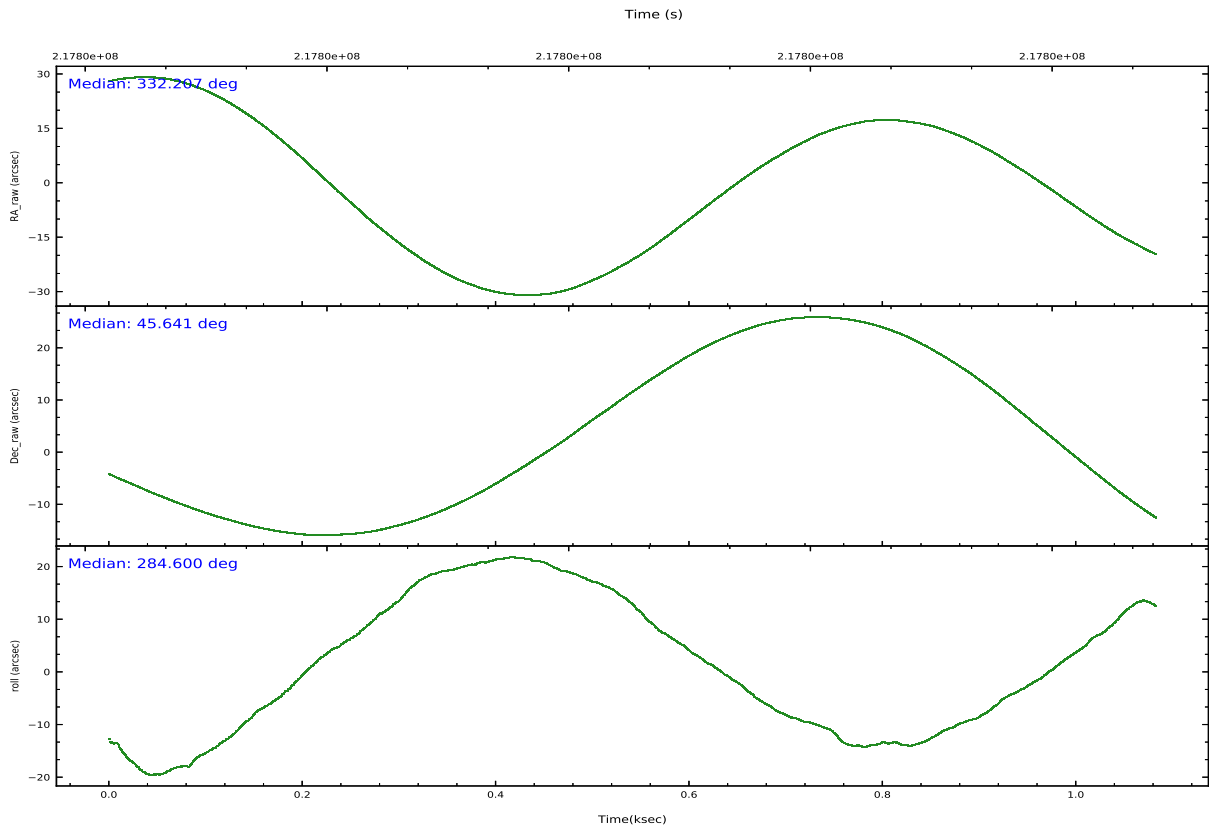
	segment 0
level 1 events	149584
rejected events	31054
rejected %	20%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar version number	8	8
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.177682	332.20251075506			
[deg] Pointing Dec	45.660309	45.64325215302			
[deg] Pointing Roll	284.733096	284.6000568497			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	217797207.184000	217796831.03372			
Observation start date	2004-11-25T19:12:23	2004-11-25T19:07:11			
[s] Observation end time (MET)	217798107.184000	217798241.43378			
Observation end date	2004-11-25T19:27:23	2004-11-25T19:30:41			

2.3 Aspect



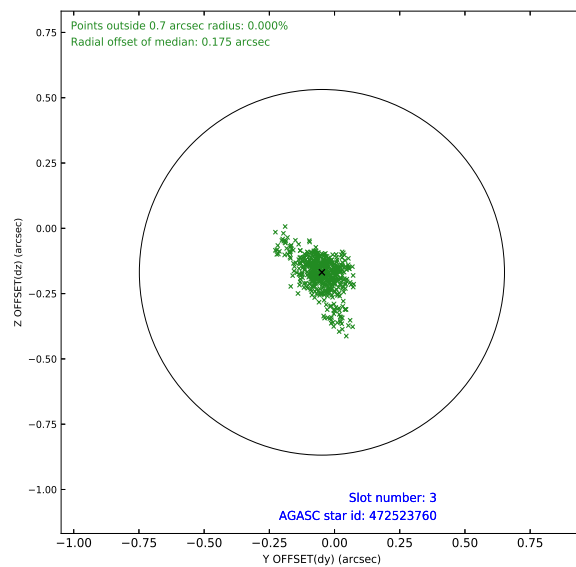
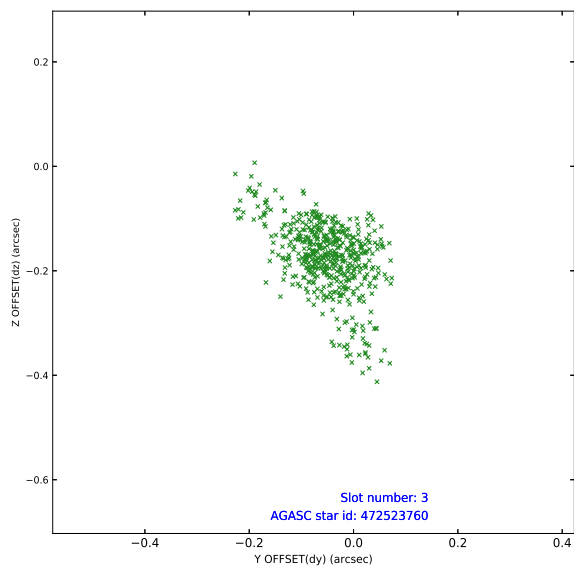


Slot Statistics

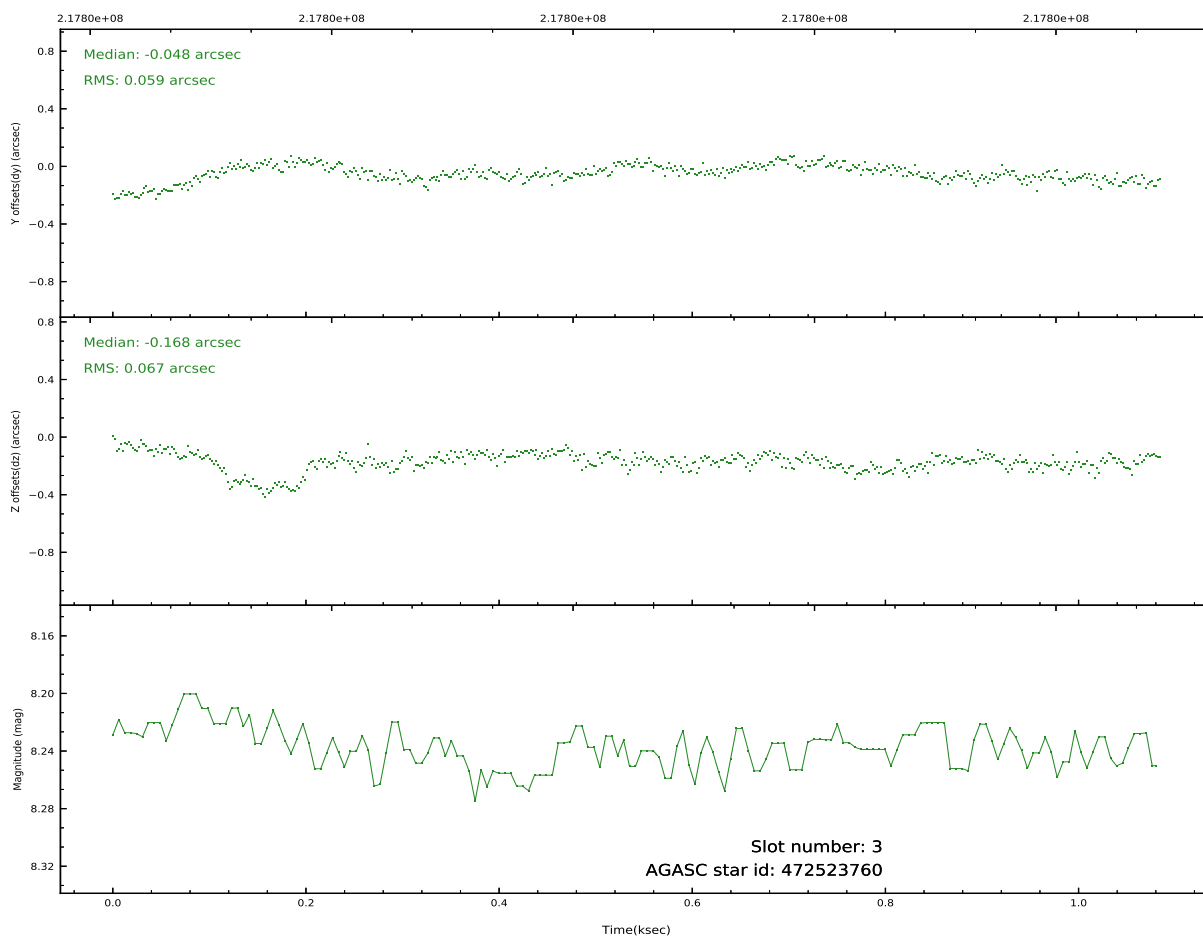
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		HRC-I-1	7.01	265	1.000	-0.014	0.011	0.006	0.011	0.000000	0.000000	-763.21	-1295
1	FID		HRC-I-2	7.05	265	1.000	0.168	-0.123	0.006	0.010	0.000000	0.000000	846.72	-1302
2	FID		HRC-I-3	7.10	265	1.000	-0.034	0.022	0.006	0.010	0.000000	0.000000	-1188.51	1004
3	GUIDE	used	472523760	8.24	530	1.000	-0.048	-0.168	0.082	0.185	331.645363	45.403260	549.05	-1537
4	GUIDE	used	472527720	7.01	530	1.000	0.031	-0.086	0.088	0.142	331.460205	45.112509	1437.68	-2267
5	GUIDE	used	472654568	9.43	529	1.000	0.106	0.060	0.133	0.235	332.194449	45.063576	2091.87	-511
6	GUIDE	used	472655152	9.43	530	1.000	0.007	0.118	0.100	0.181	332.504239	45.862991	-494.82	974
7	GUIDE	used	472659832	9.46	529	1.000	-0.101	0.078	0.117	0.201	332.780399	46.098139	-1148.11	1857

2.4 Star Slots

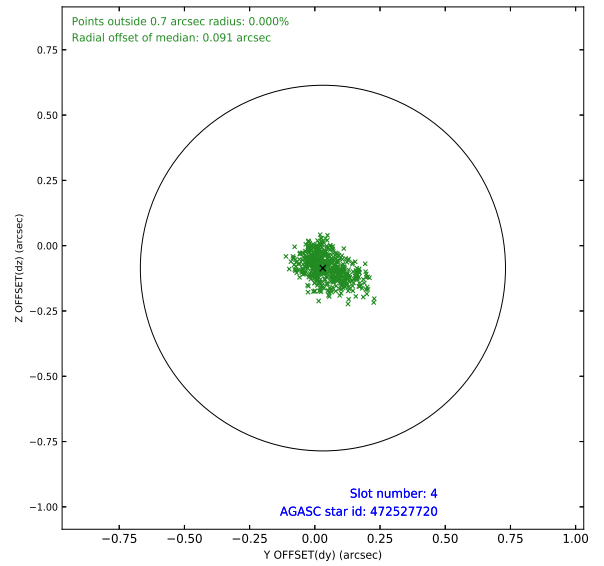
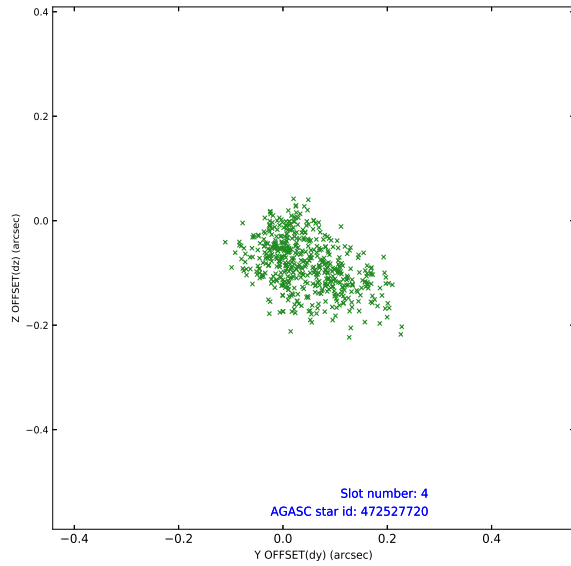
2.4.1 Slot 3



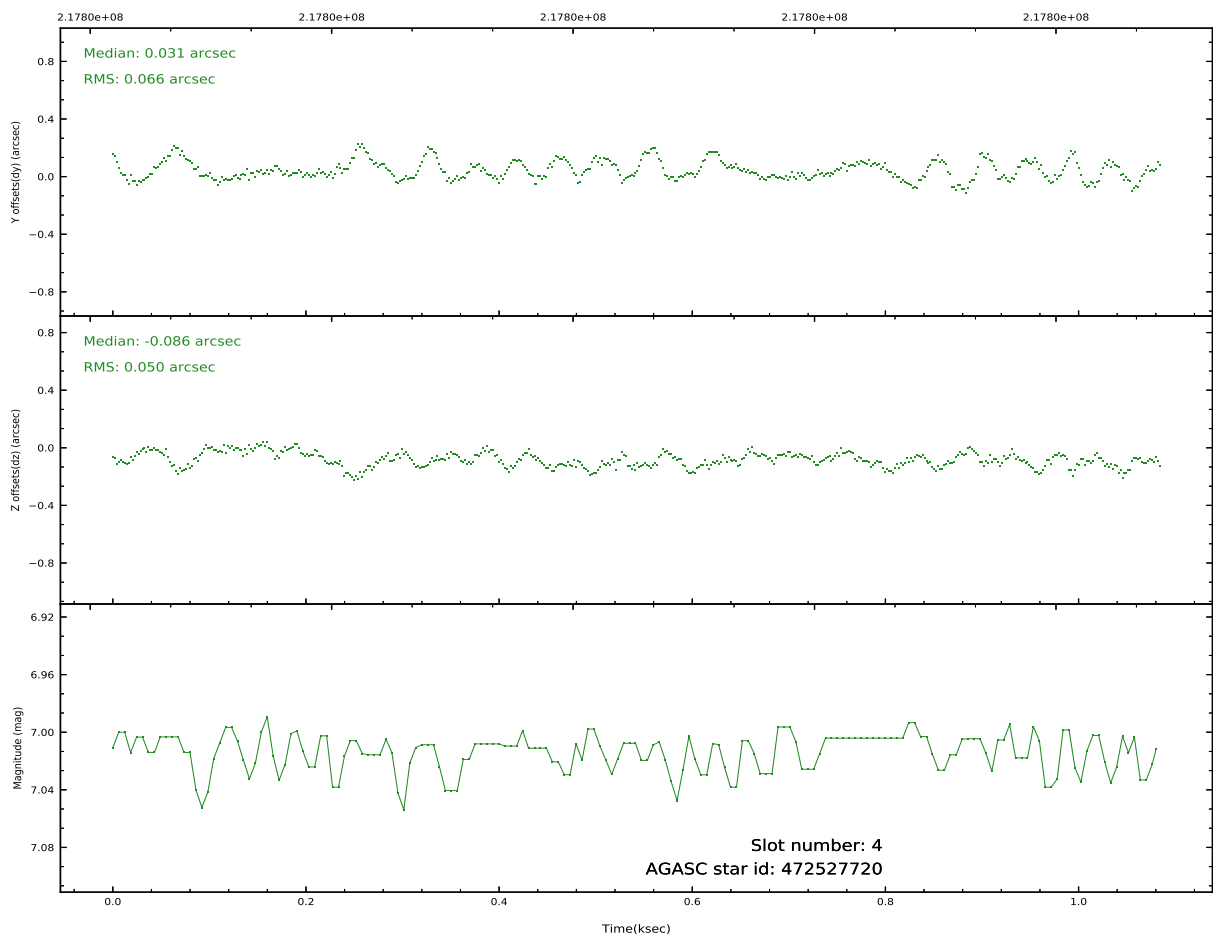
Time (s)



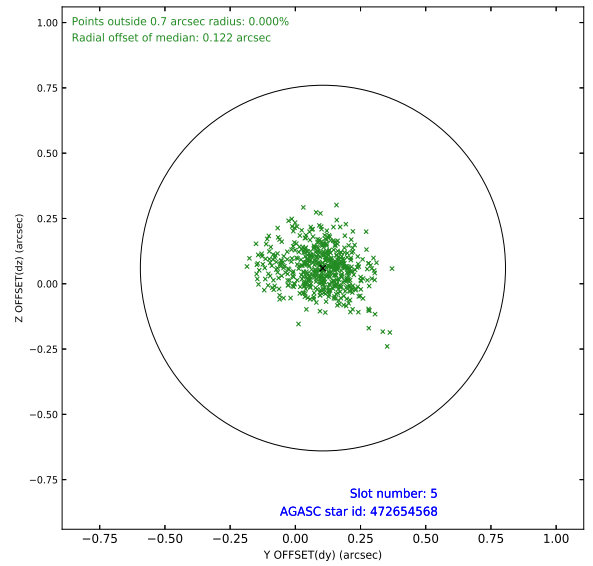
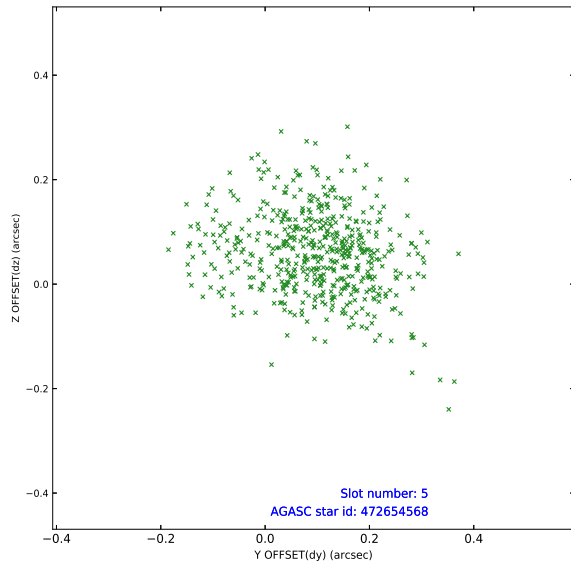
2.4.2 Slot 4



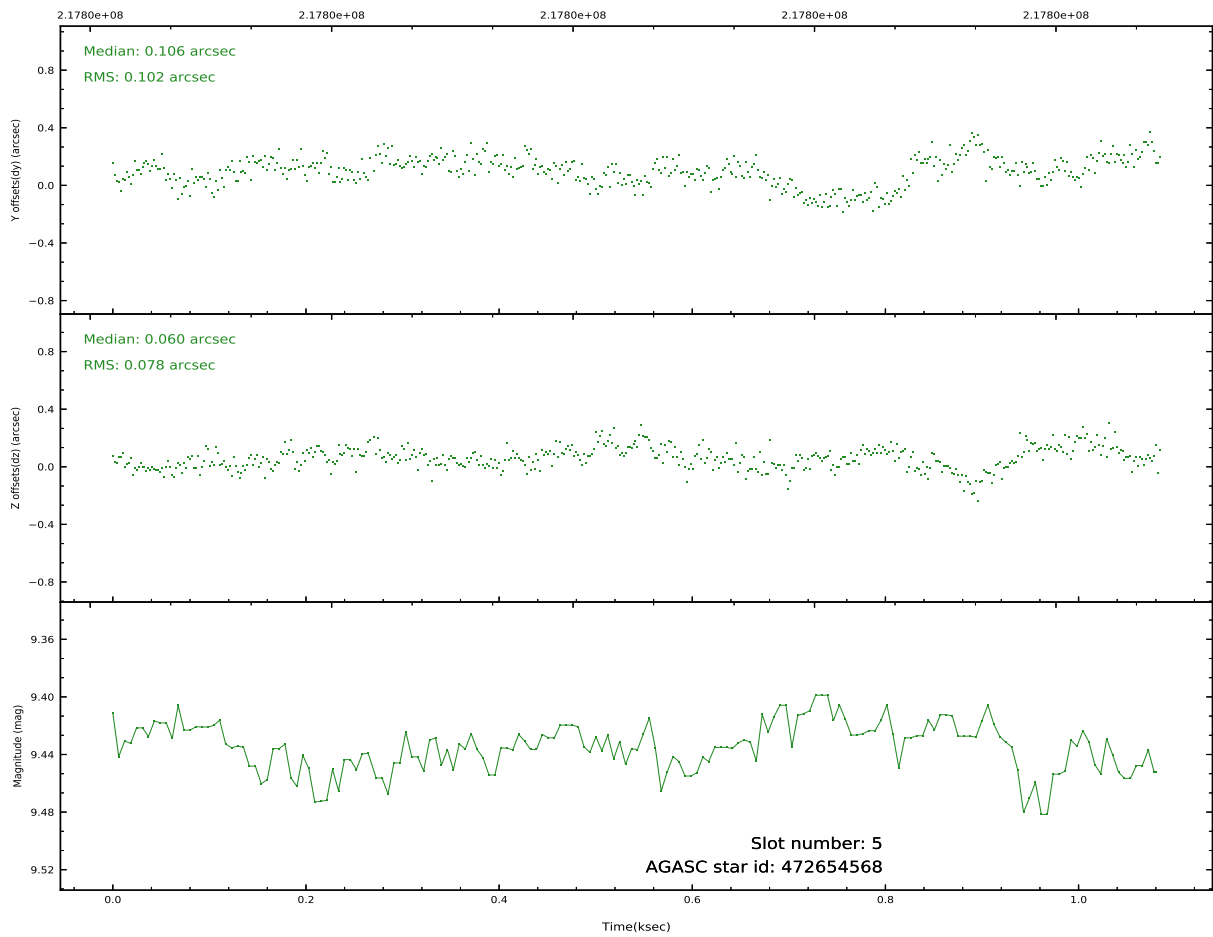
Time (s)



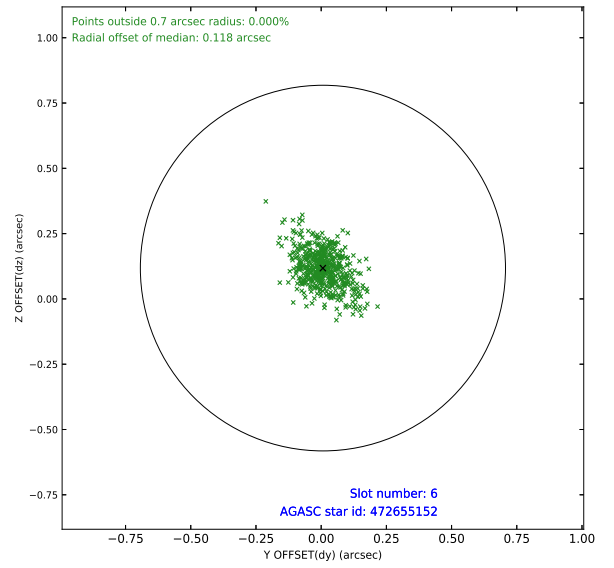
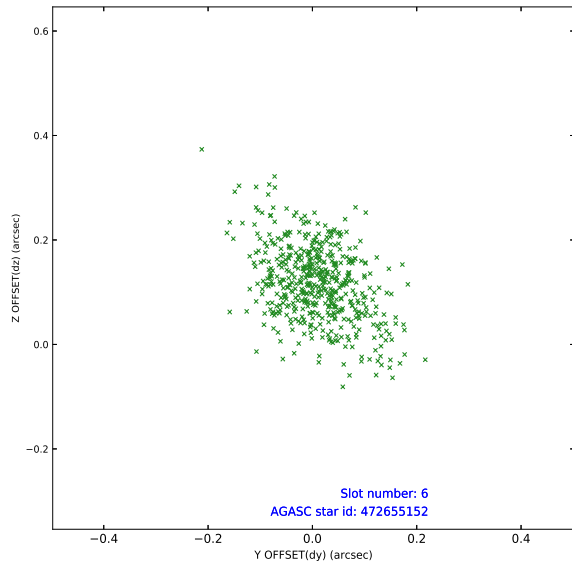
2.4.3 Slot 5



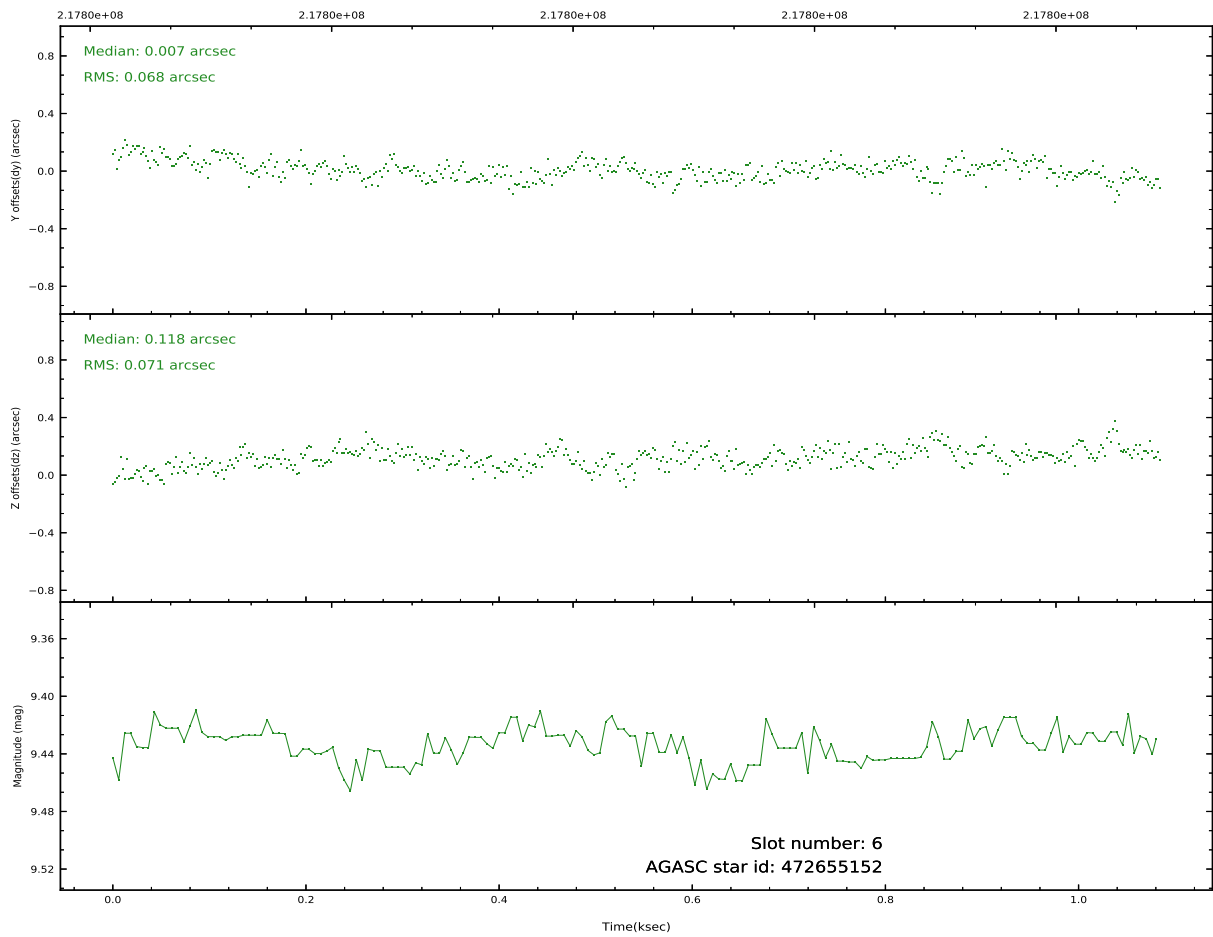
Time (s)



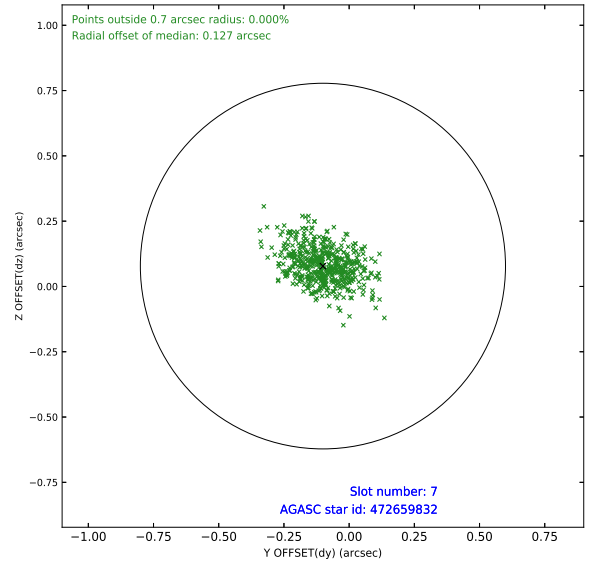
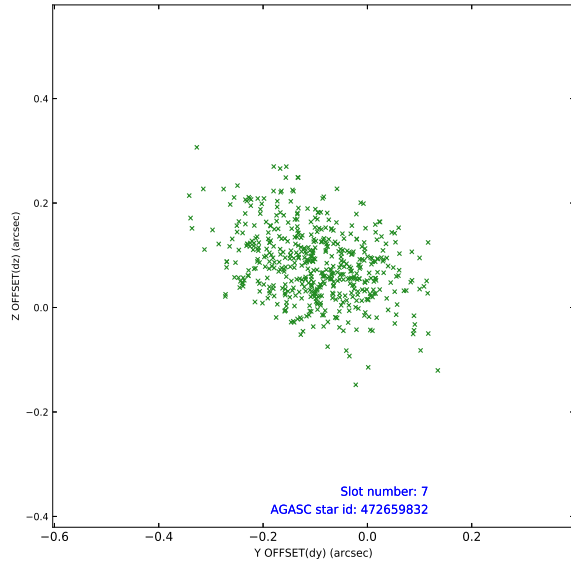
2.4.4 Slot 6



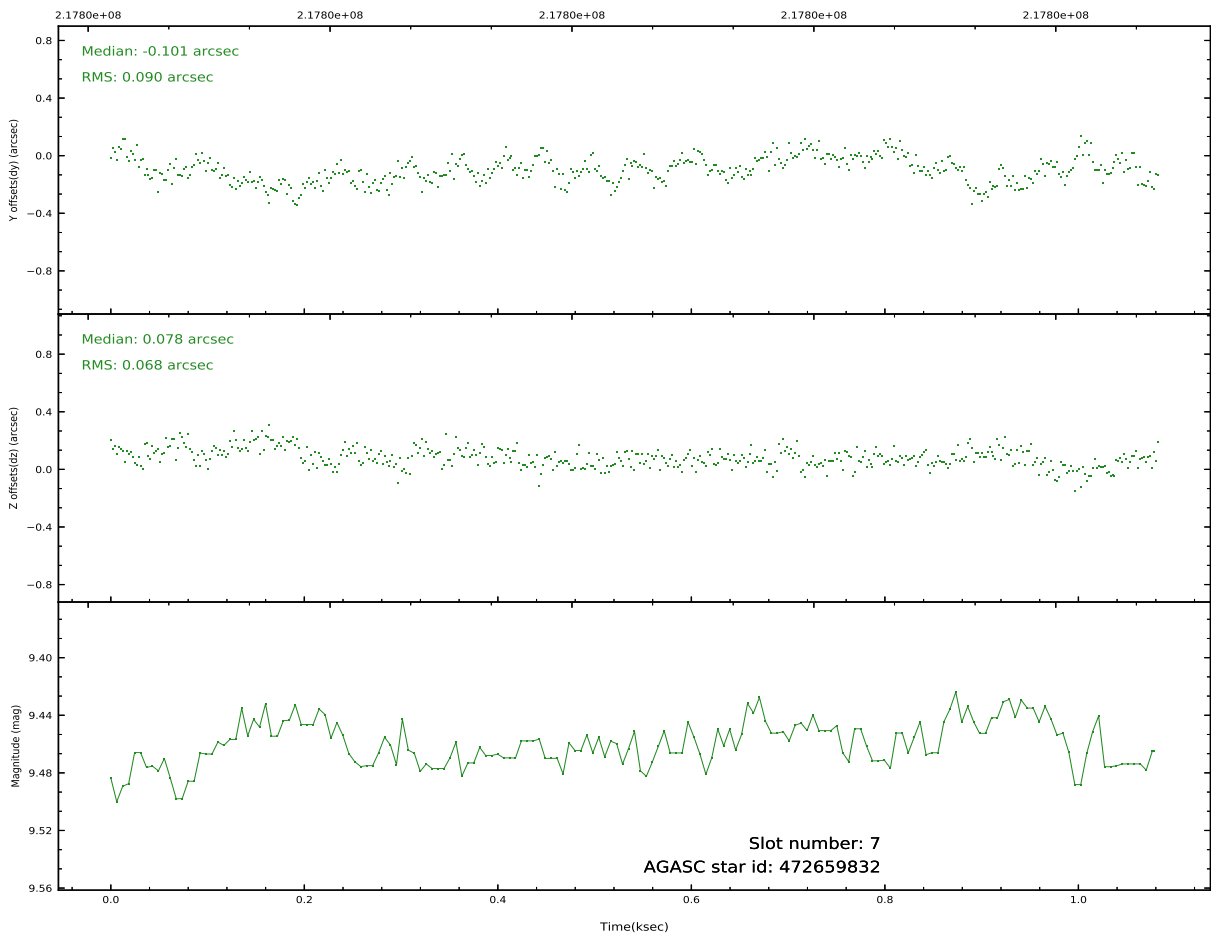
Time (s)



2.4.5 Slot 7

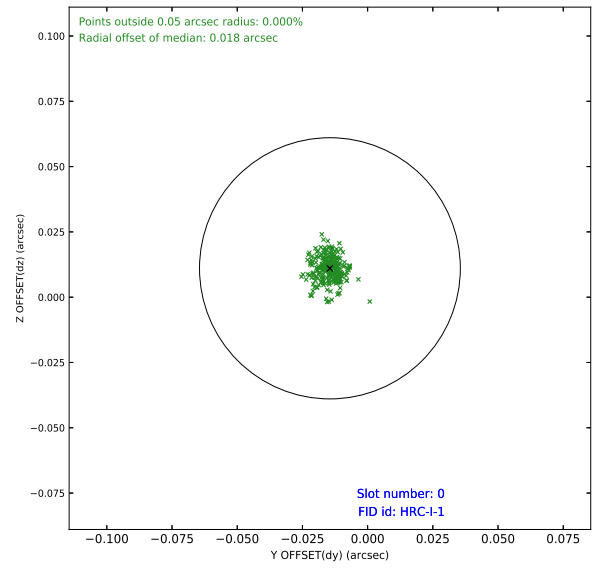
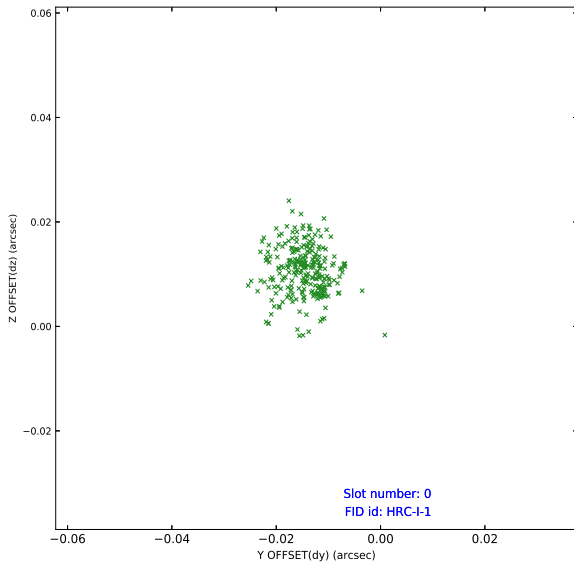


Time (s)

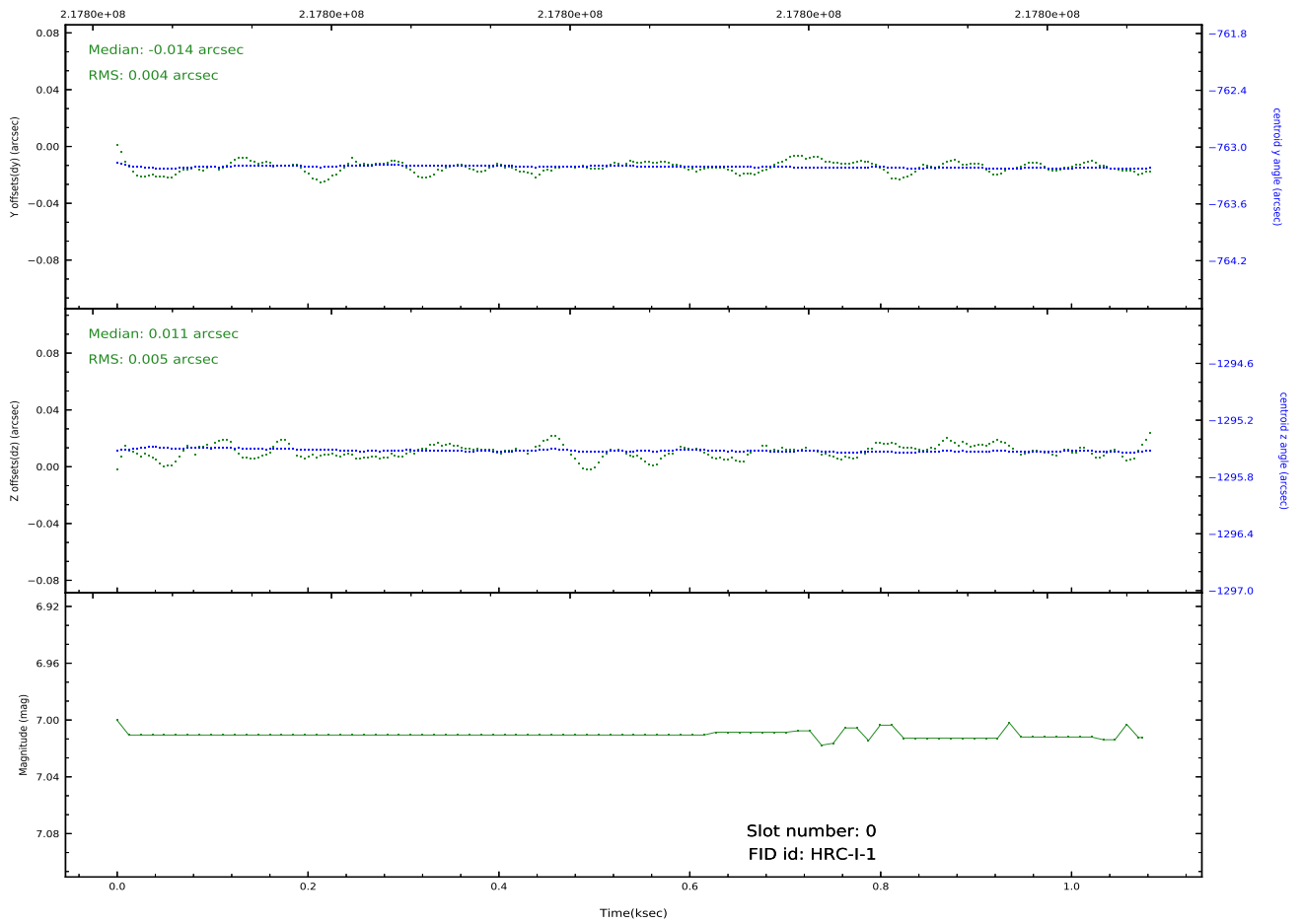


2.5 FID Slots

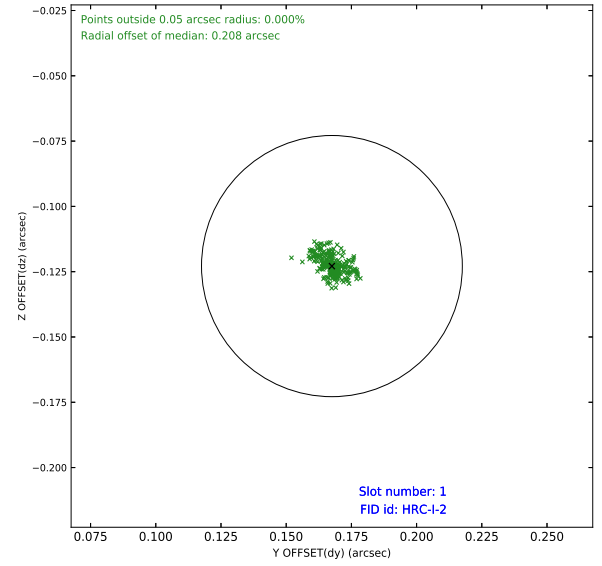
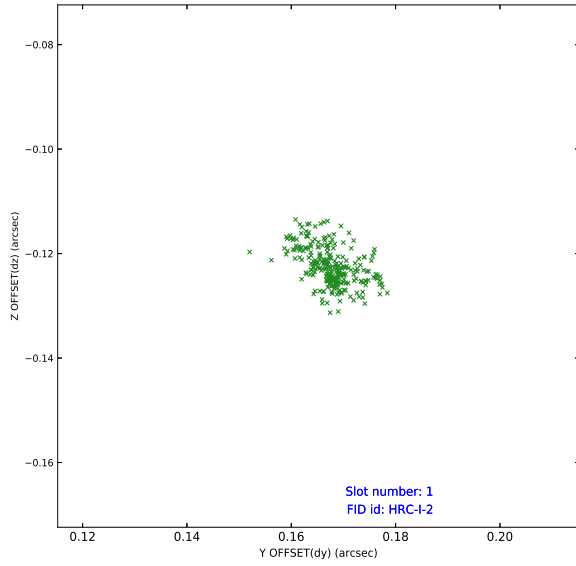
2.5.1 Slot 0



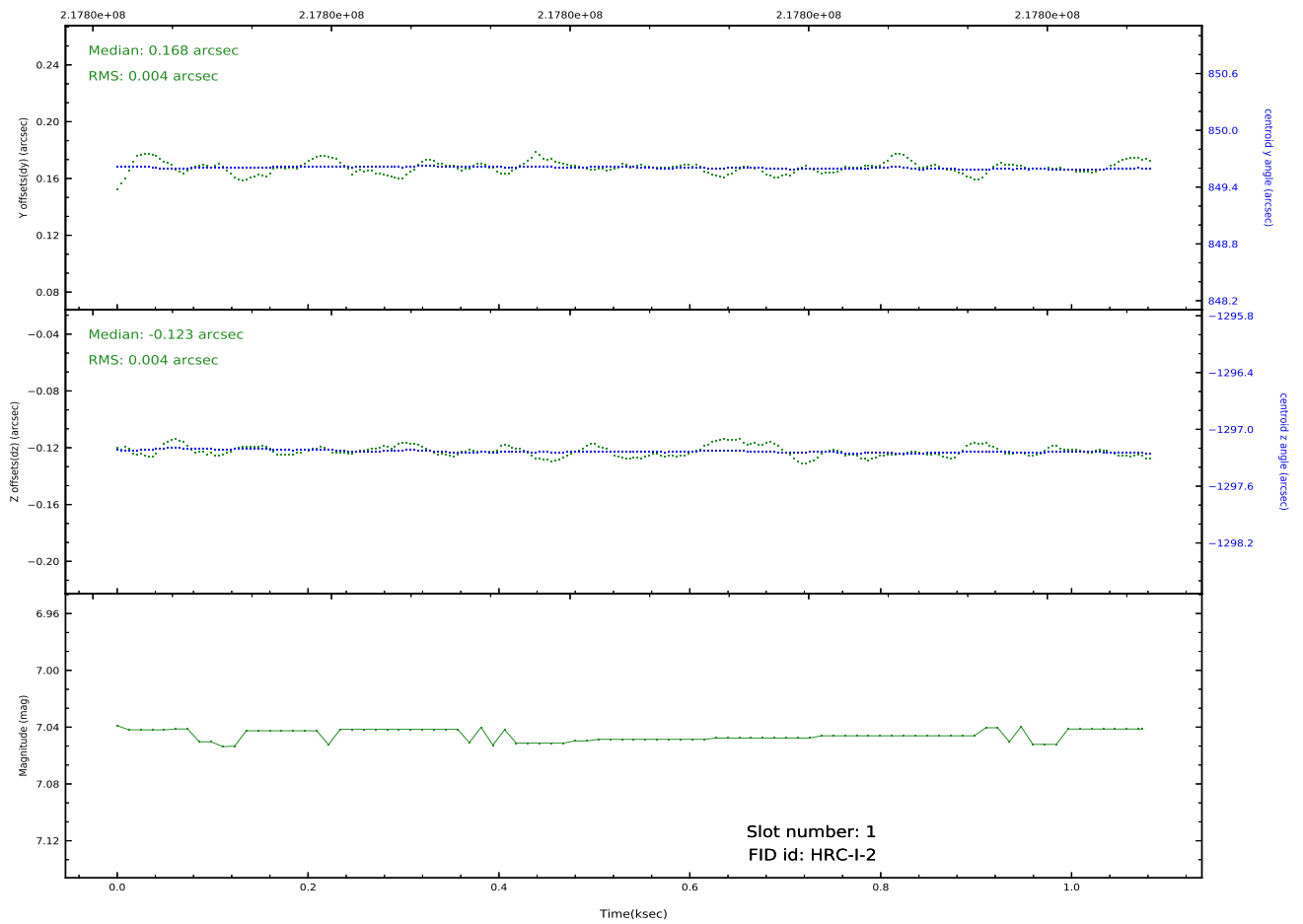
Time (s)



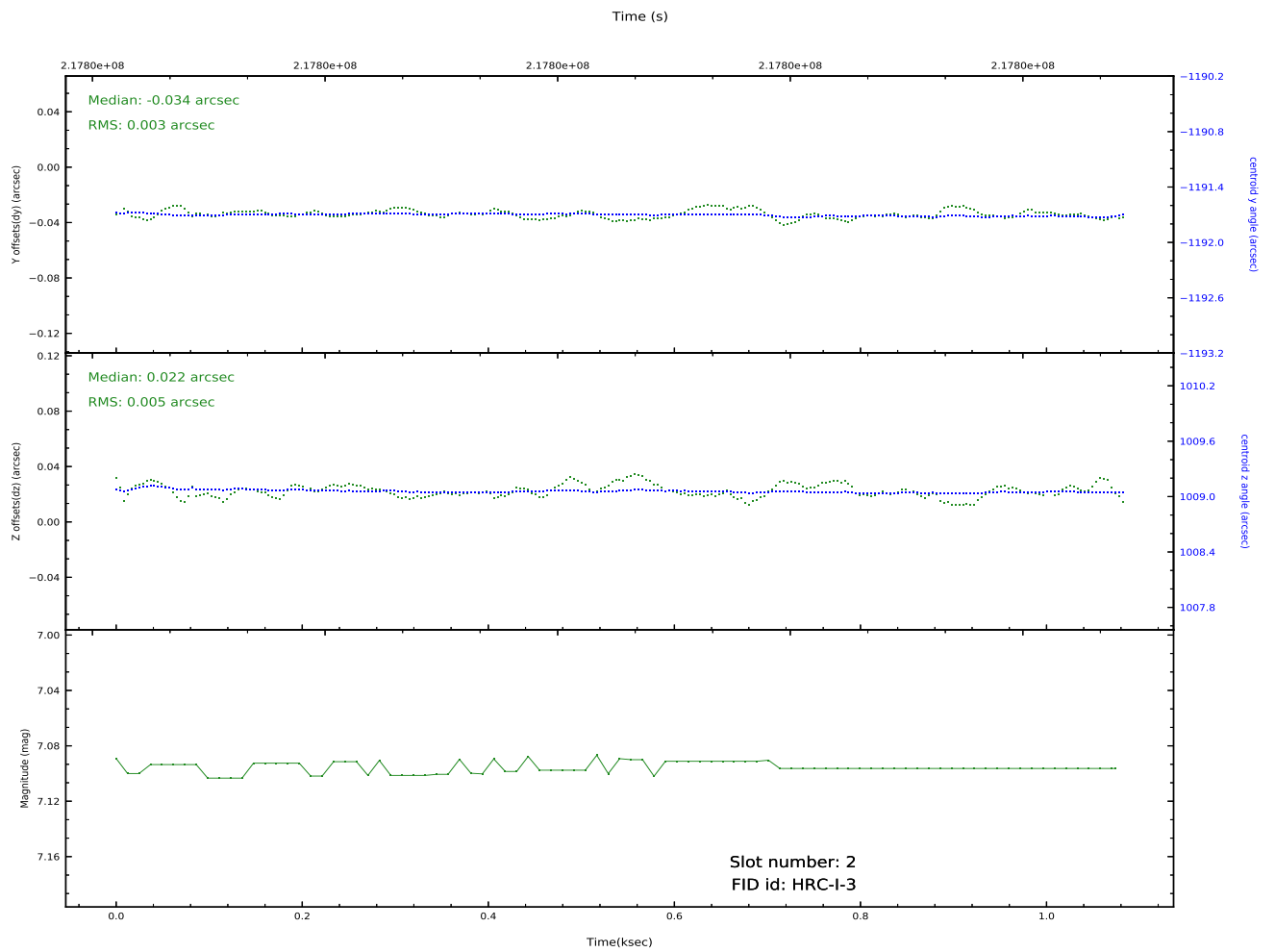
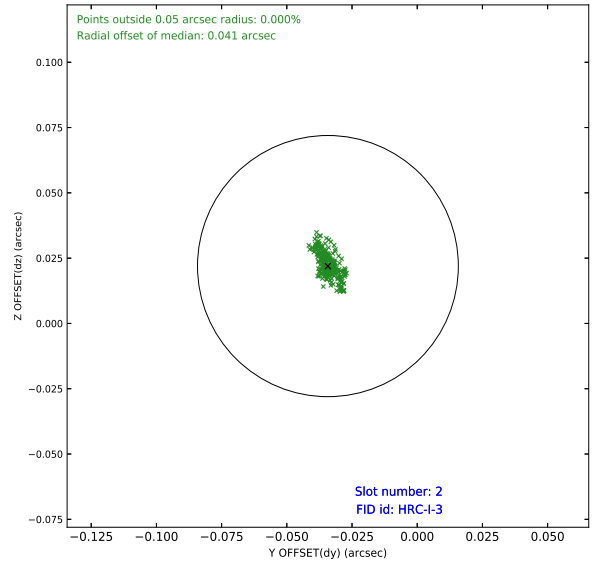
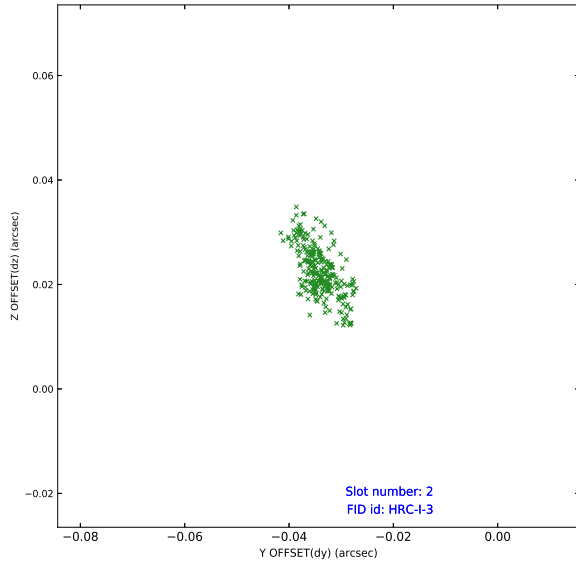
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.083425

A.2 Comments