

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5992 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Oct 10 2020

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# 1 Front

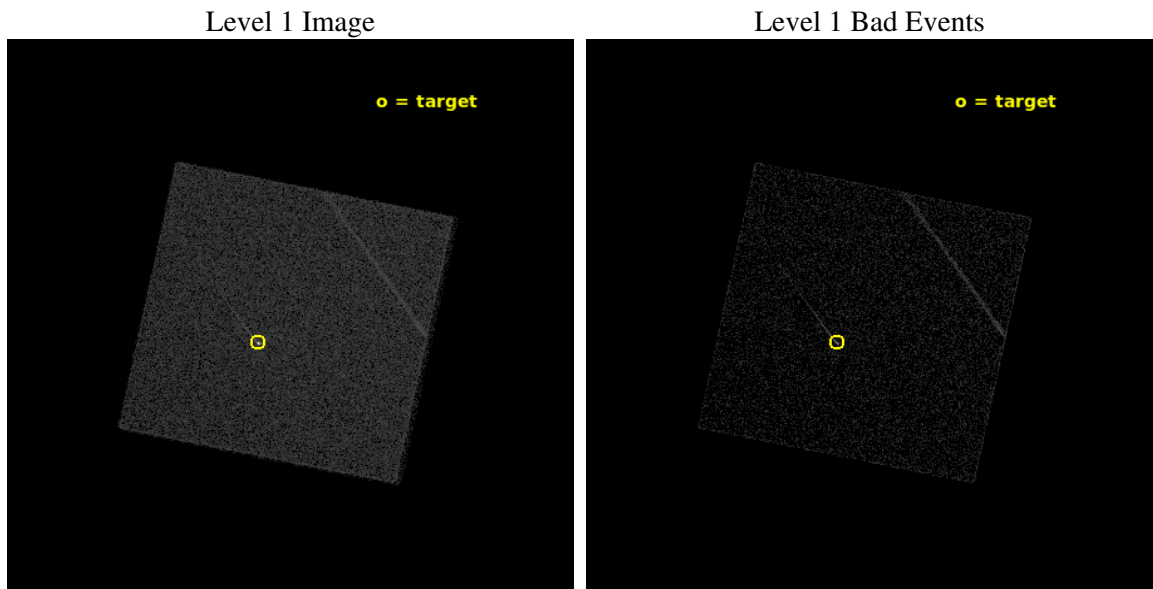
seq_num	290484	Sequence number
obs_id	5992	Observation id
title	AO6 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.08469944708	Nominal RA [deg]
dec_nom	45.779548275952	Nominal Dec [deg]
roll_nom	236.76285672444	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1180.0313043296	[s]
livetime	1171.301722996	Ontime multiplied by DTCOR
l2events	52506	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	1180.0313043296	[s]
caldbver	4.9.2	&#160	l1events	148408	Number of level 1 events
date	2020-10-11T01:14:49	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

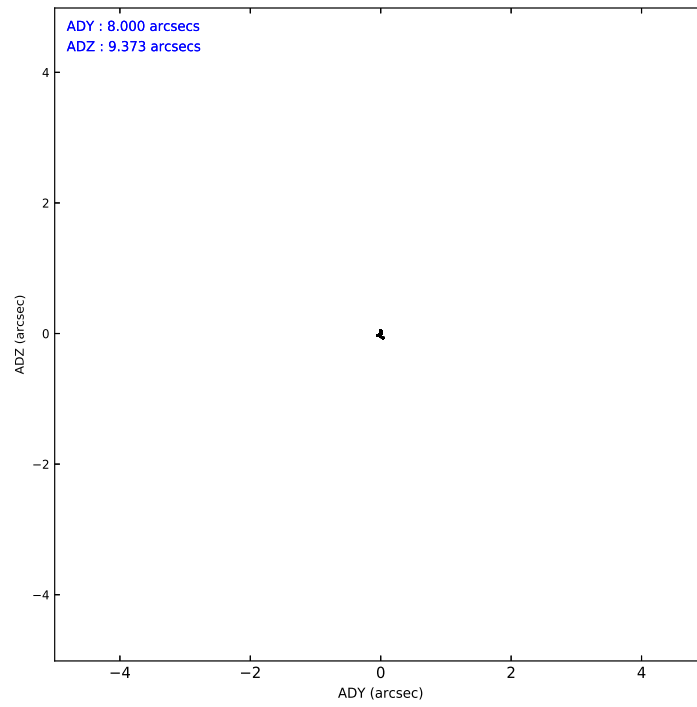
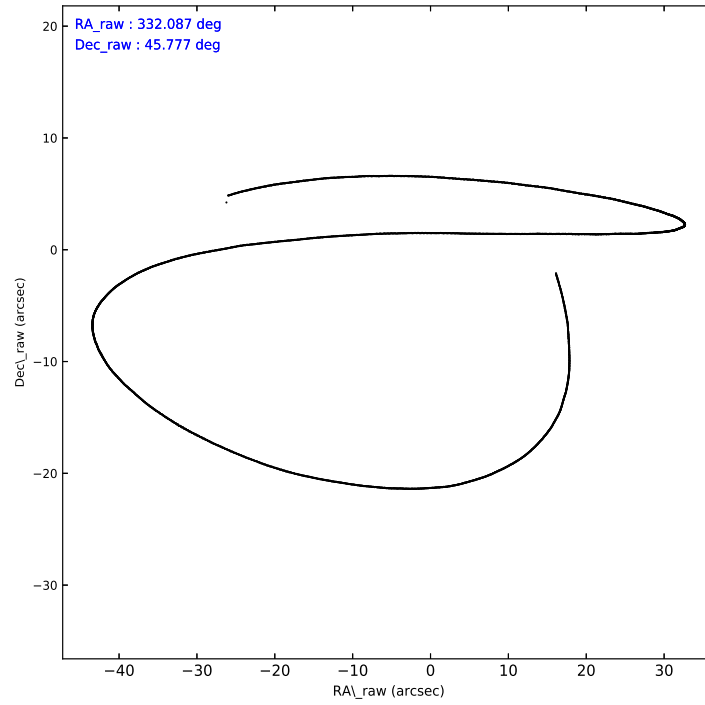
	<b>segment 0</b>
level 1 events	148408
rejected events	74059
rejected %	49%

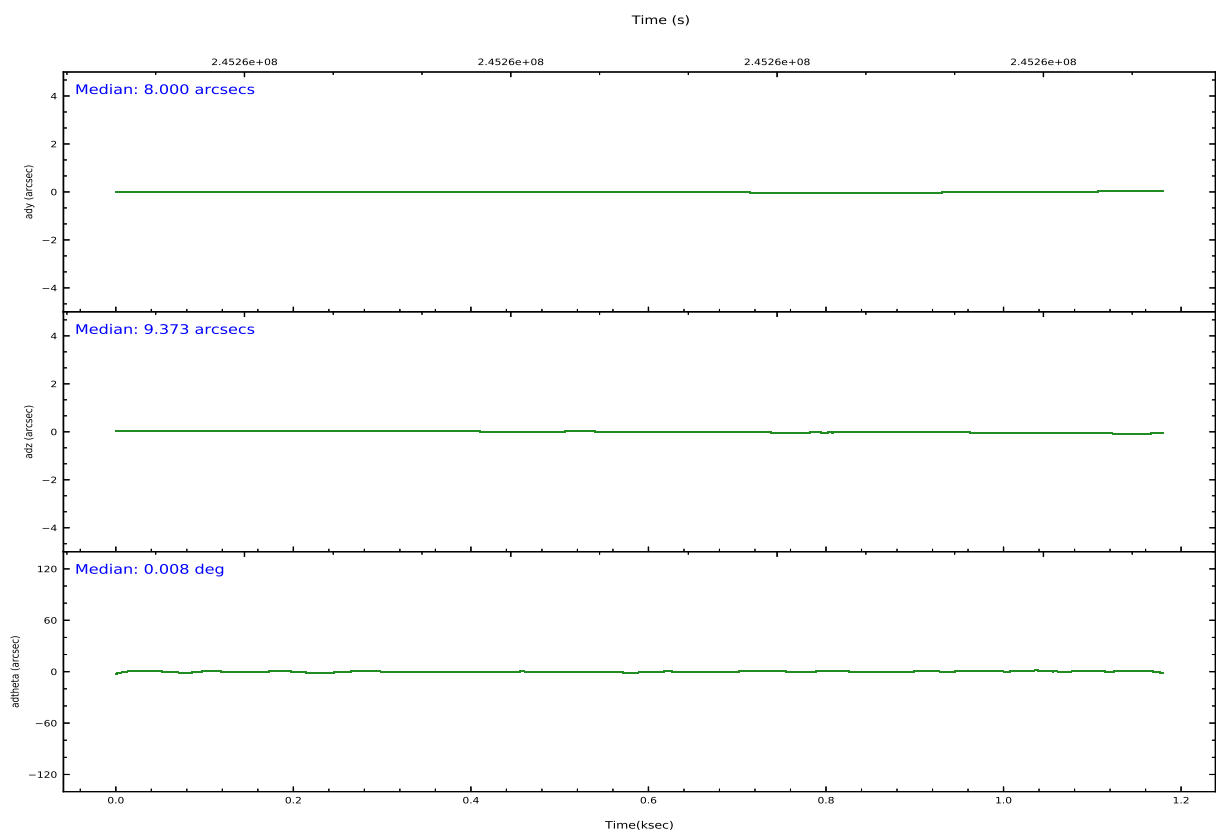
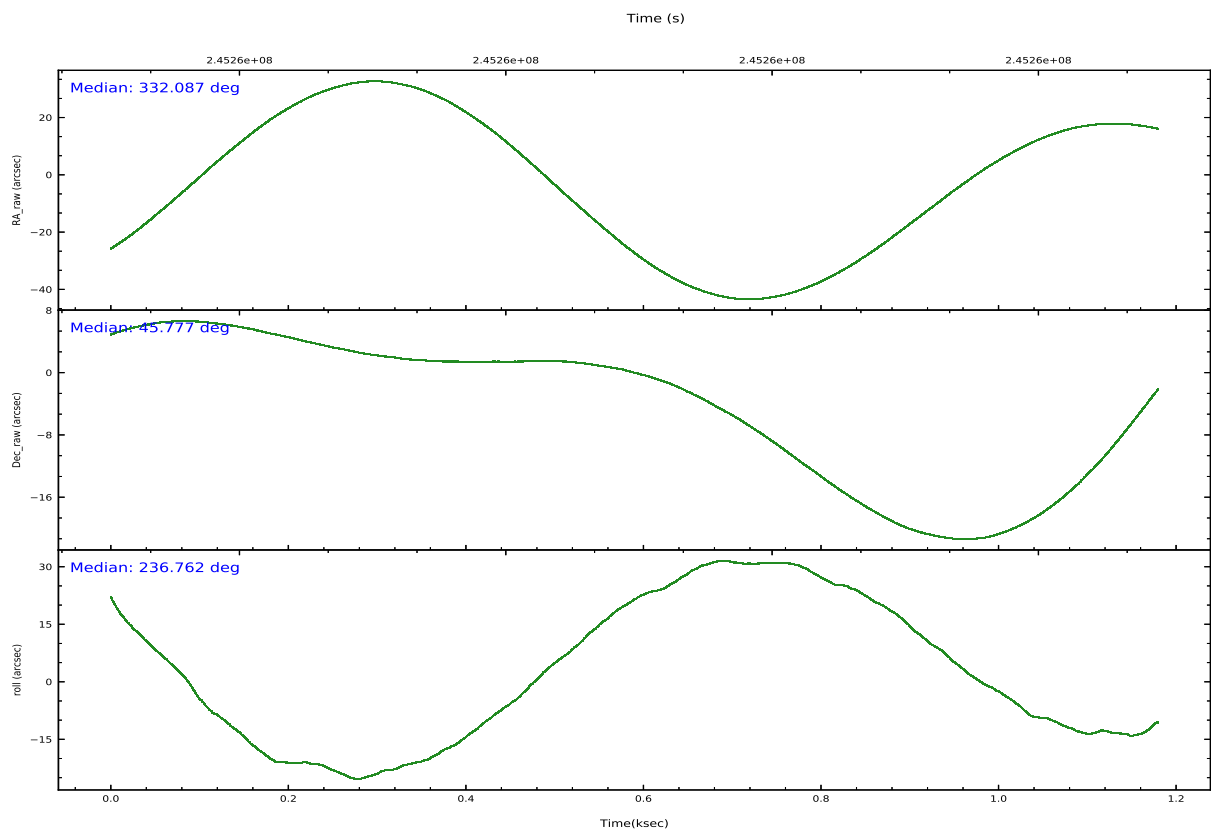
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.086343	332.08469944708
[deg] Pointing Dec	45.803516	45.779548275952
[deg] Pointing Roll	236.870171	236.76285672444
[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)	245261536.184000	245261159.93347
Observation start date	2005-10-09T16:11:12	2005-10-09T16:05:59
[s] Observation end time (MET)	245262536.184000	245263627.62108
Observation end date	2005-10-09T16:27:52	2005-10-09T16:47:07

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





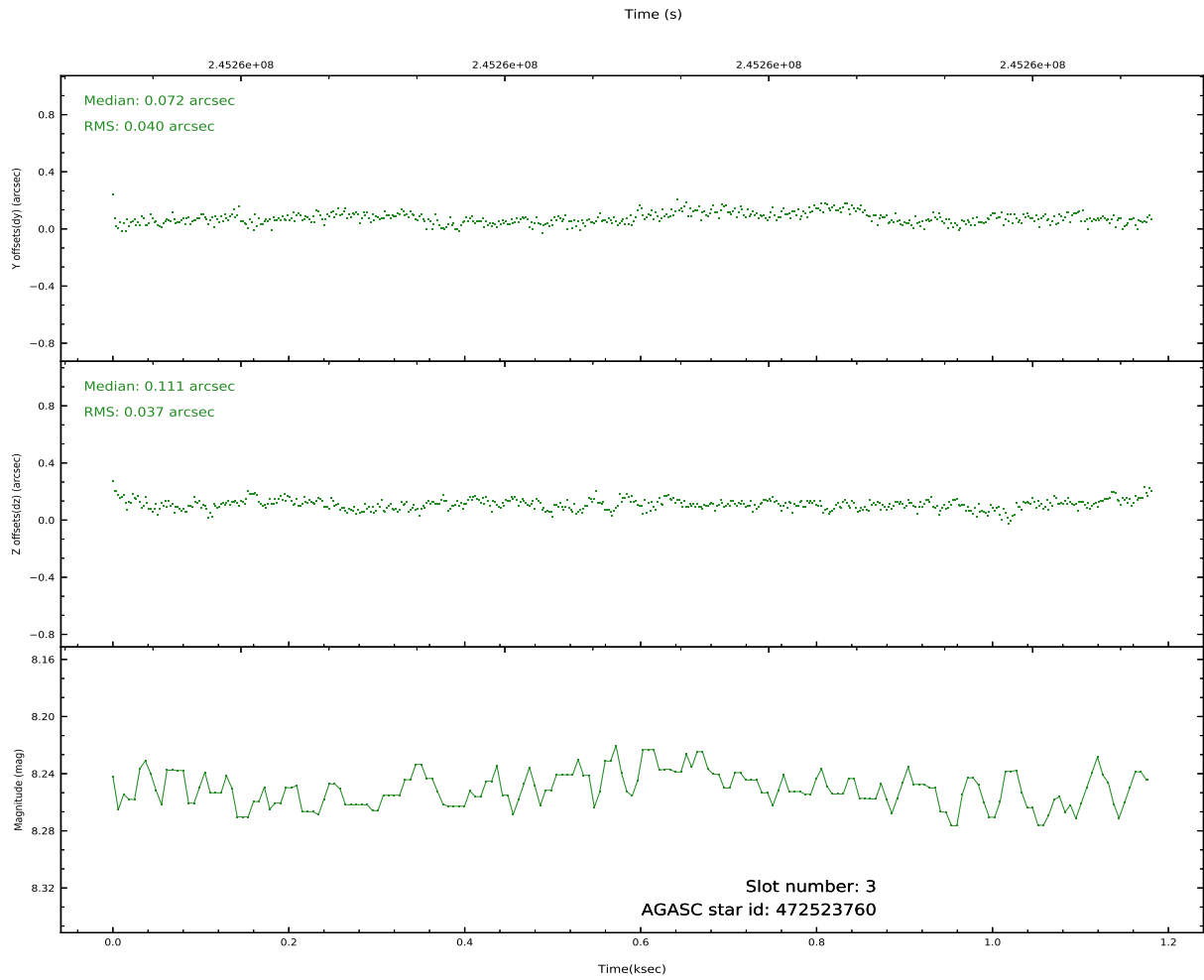
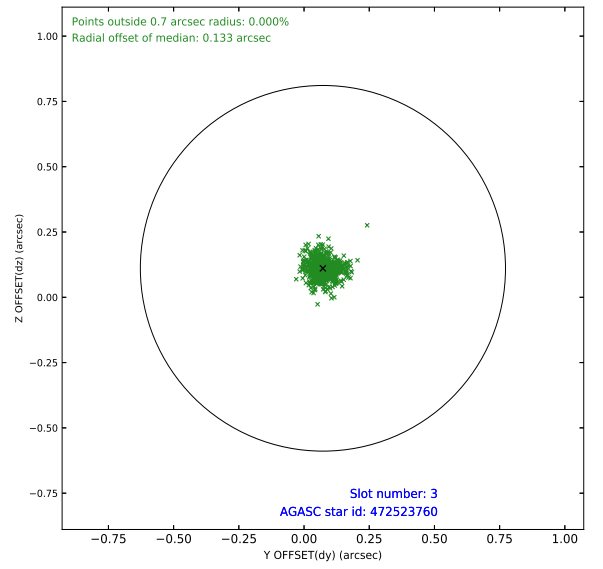
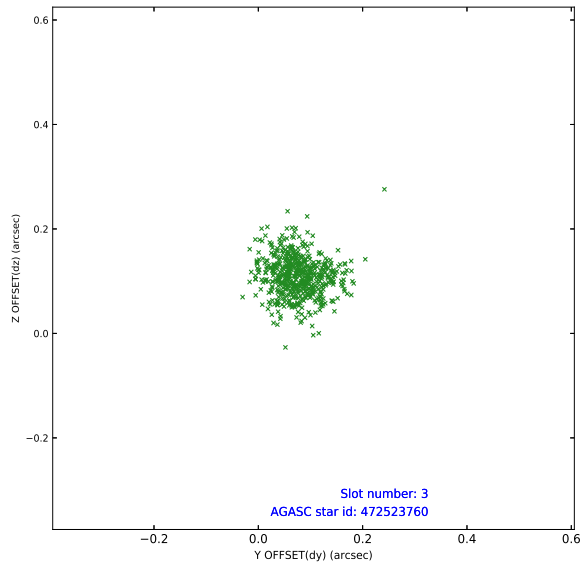
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	6.99	288	1.000	-0.046	0.037	0.007	0.011	0.000000	0.000000	-763.64	-1297
1	FID		HRC-I-2	7.02	288	1.000	0.166	-0.090	0.006	0.011	0.000000	0.000000	846.55	-1303
2	FID		HRC-I-3	7.08	288	1.000	-0.001	-0.036	0.006	0.010	0.000000	0.000000	-1189.16	1002
3	GUIDE	used	472523760	8.25	577	1.000	0.072	0.111	0.059	0.096	331.645363	45.403260	1814.19	-150
4	GUIDE	used	472535576	7.86	577	1.000	-0.145	0.041	0.063	0.099	331.438373	46.291802	-592.75	-2317
5	GUIDE	used	472655152	9.43	575	1.000	0.058	0.012	0.095	0.166	332.504239	45.862991	-754.37	752
6	GUIDE	used	472665256	9.02	577	1.000	0.050	-0.097	0.073	0.124	332.808125	46.195041	-2170.76	729
7	GUIDE	used	472533912	9.15	576	1.000	-0.040	-0.066	0.099	0.163	331.791136	46.368695	-1307.22	-1728

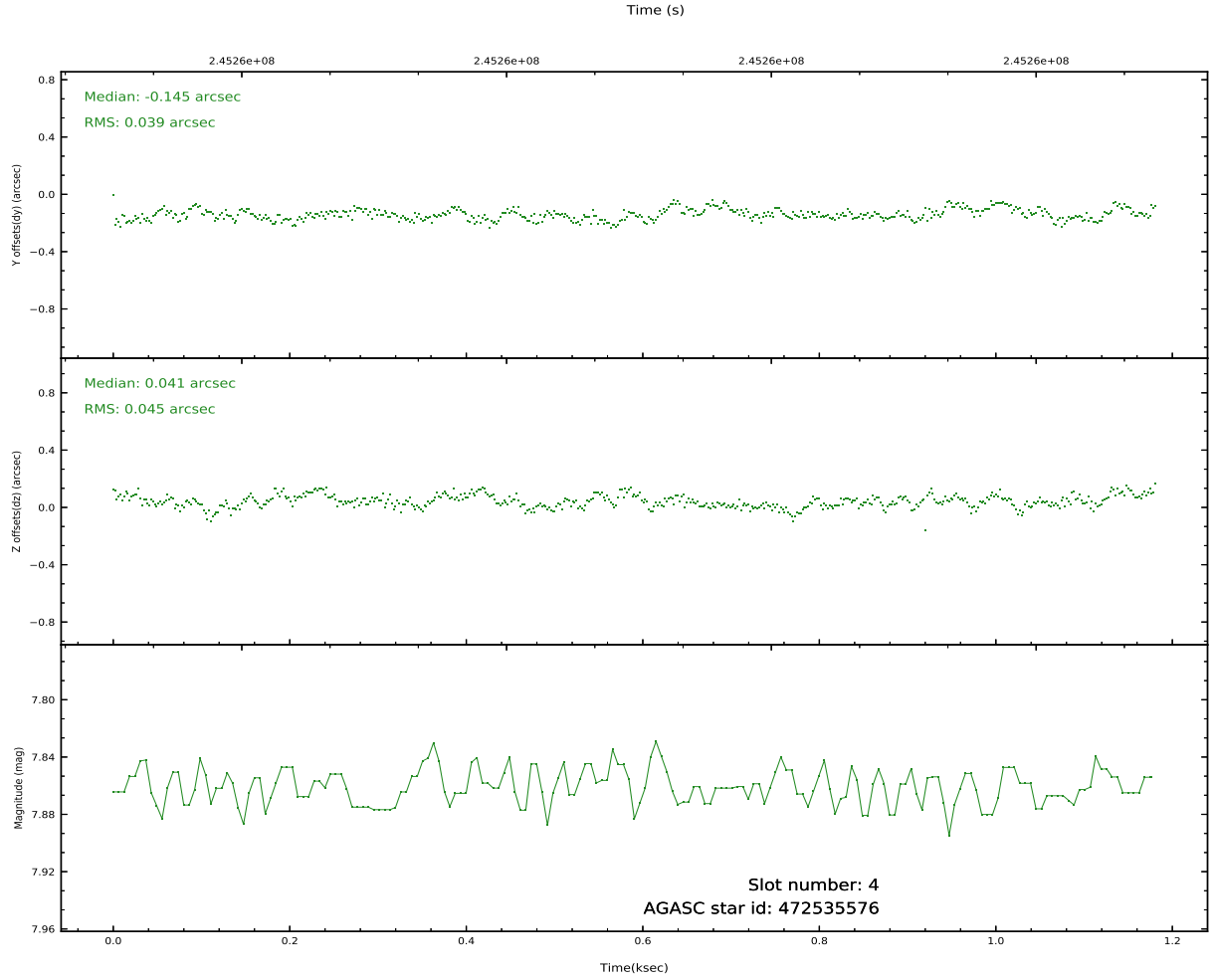
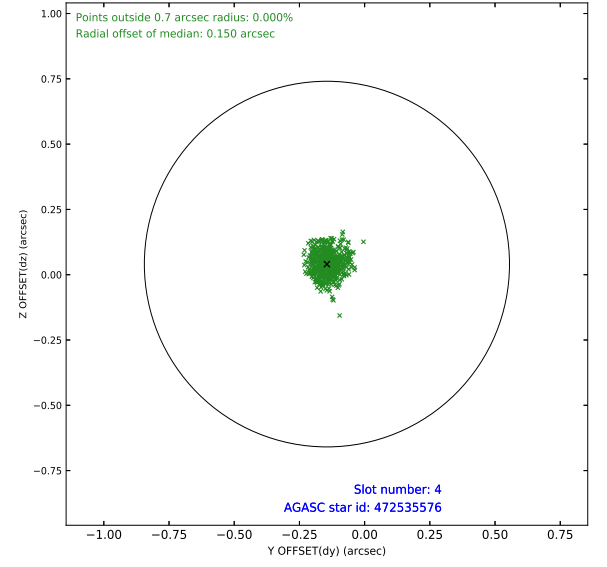
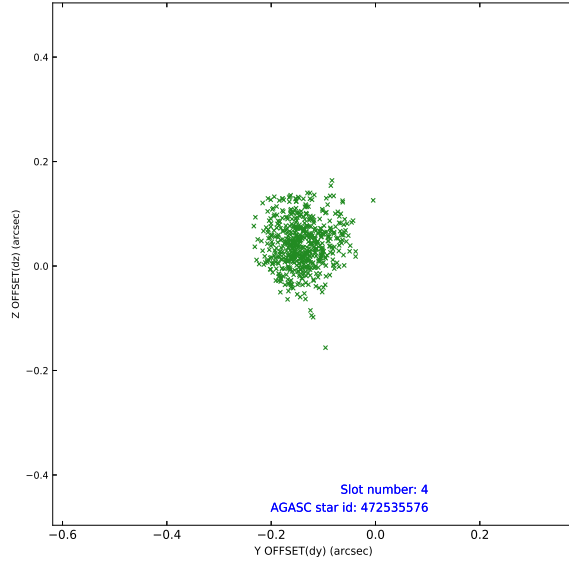


## 2.4 Star Slots

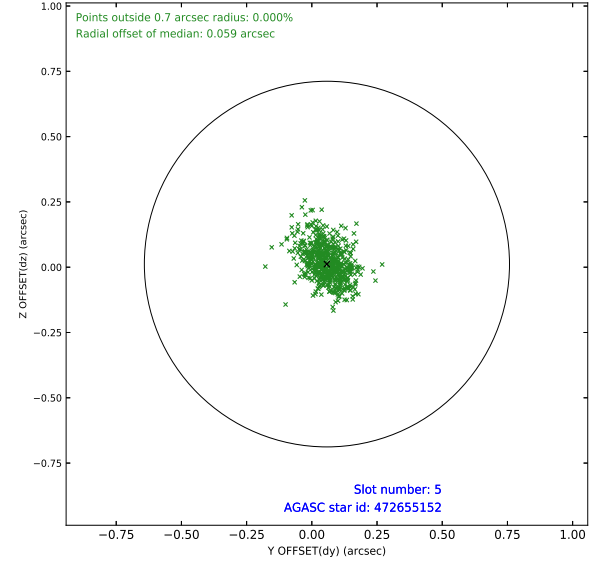
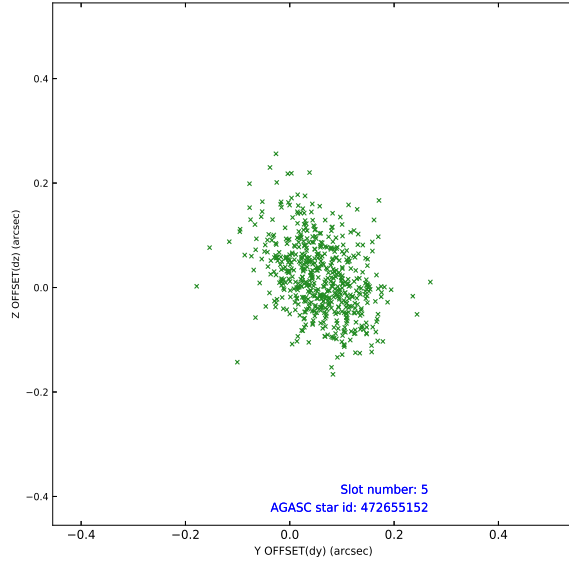
### 2.4.1 Slot 3



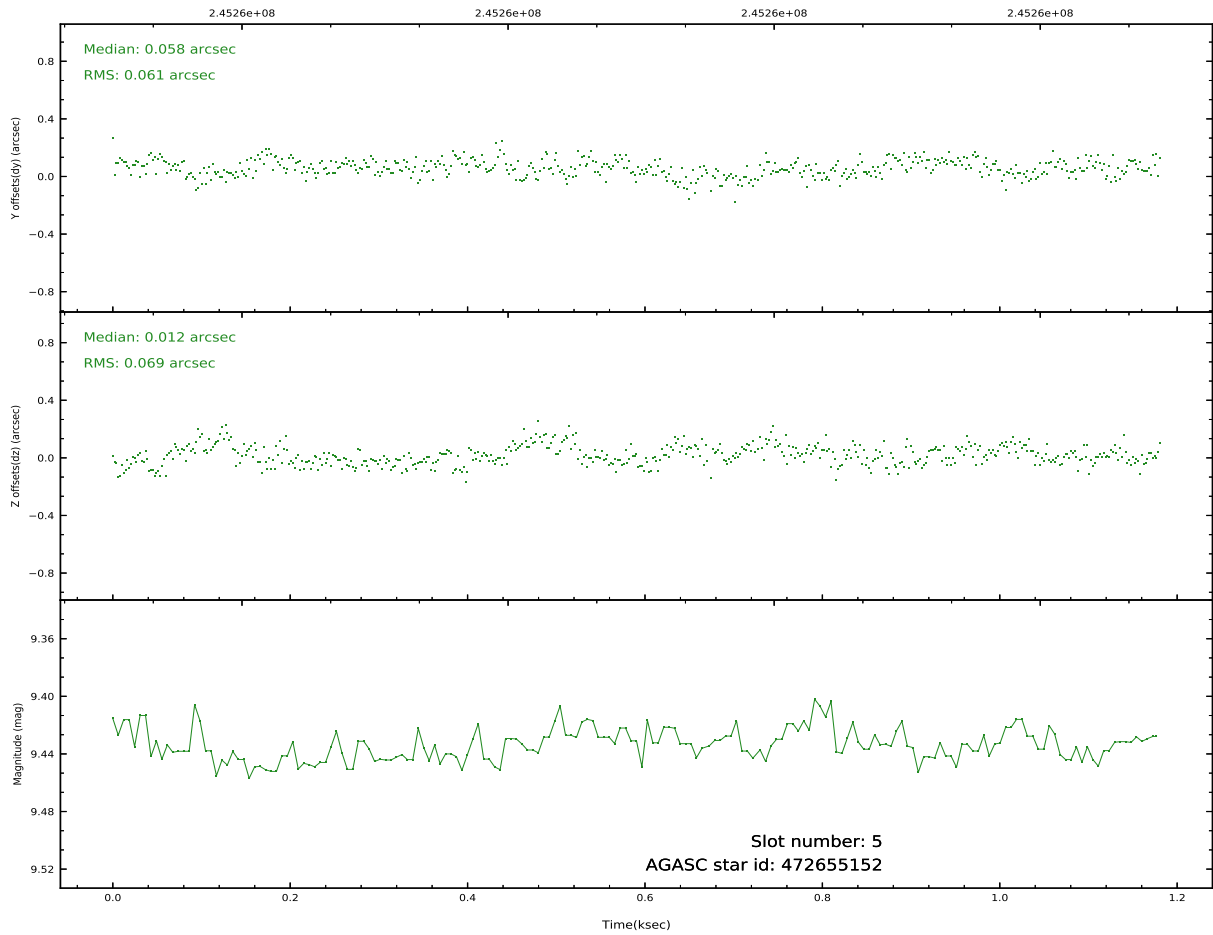
## 2.4.2 Slot 4



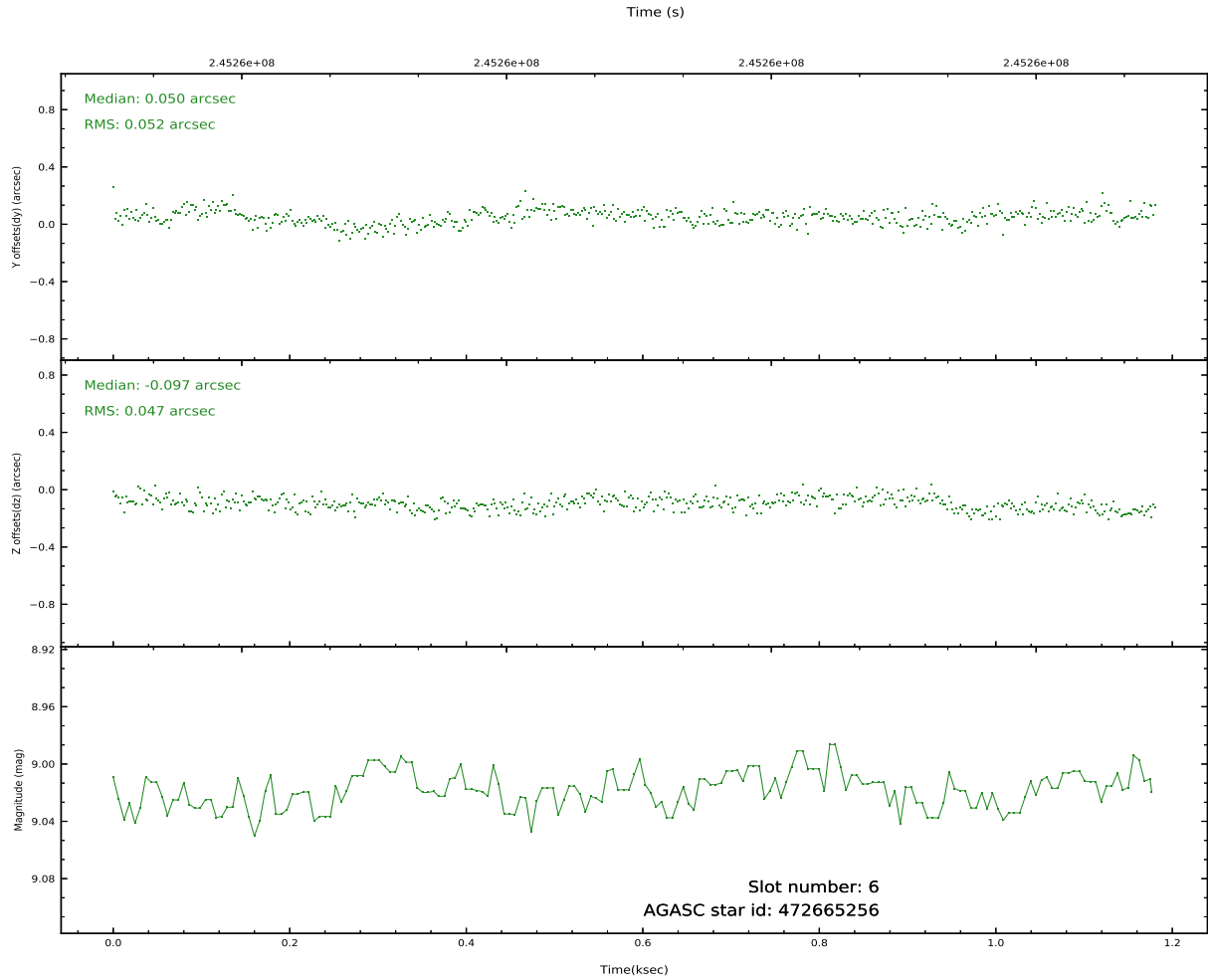
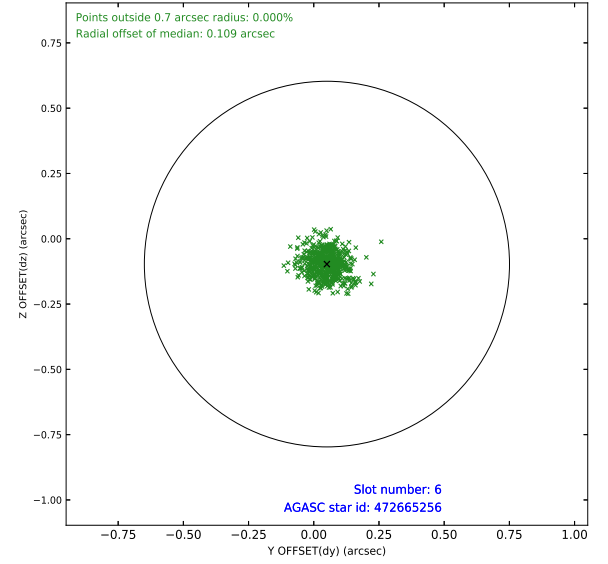
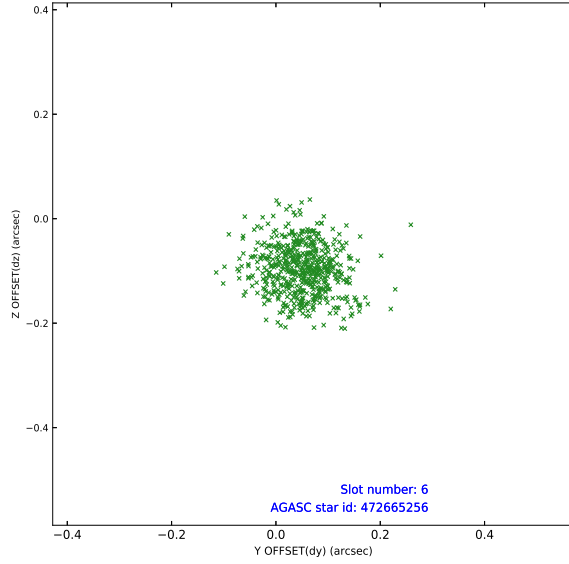
### 2.4.3 Slot 5



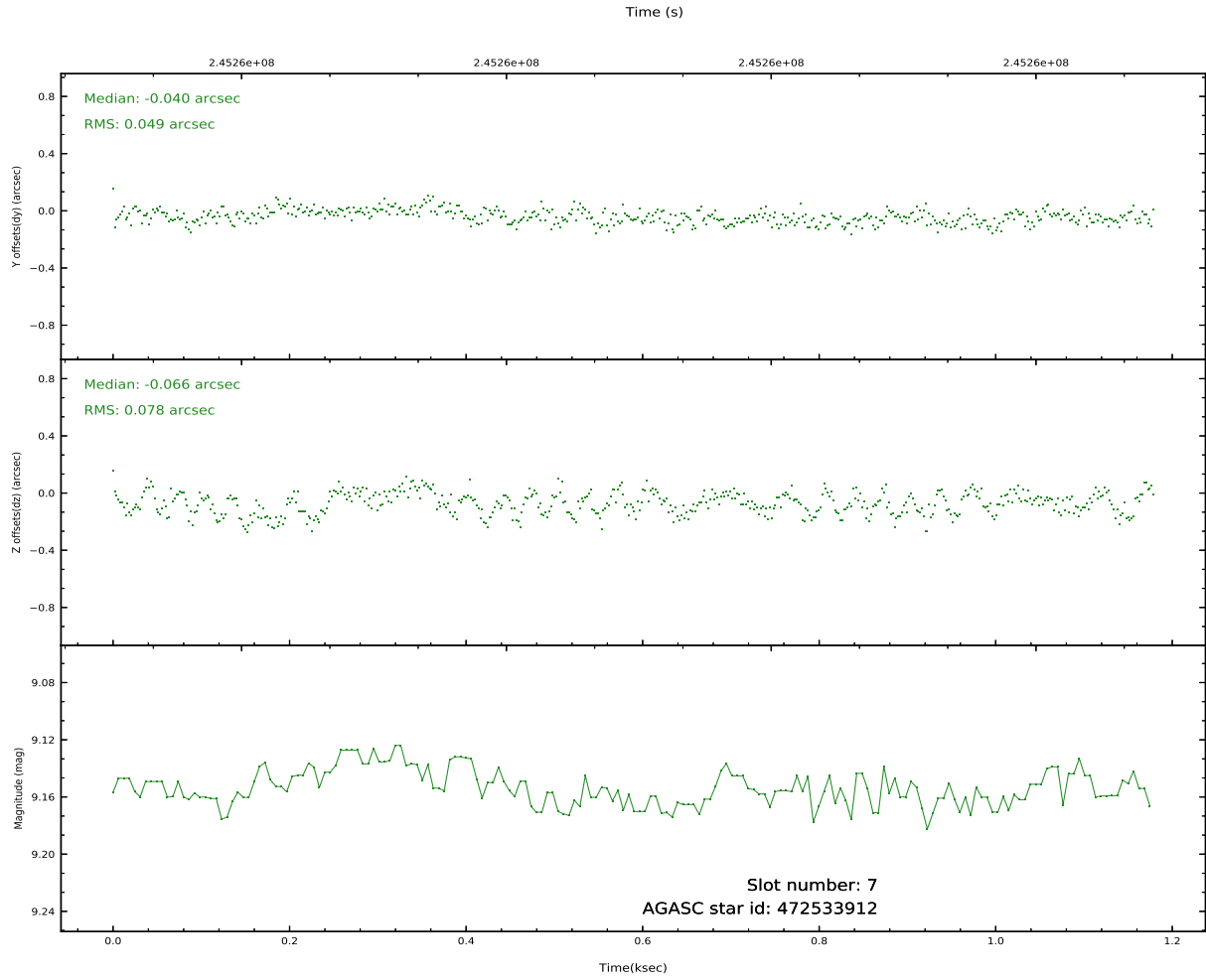
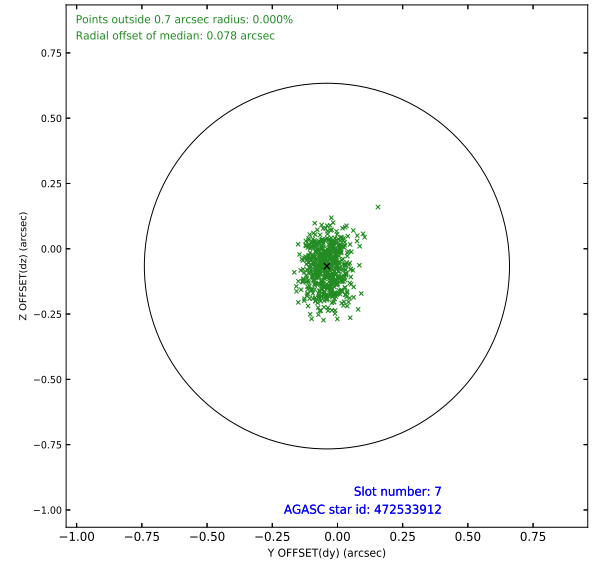
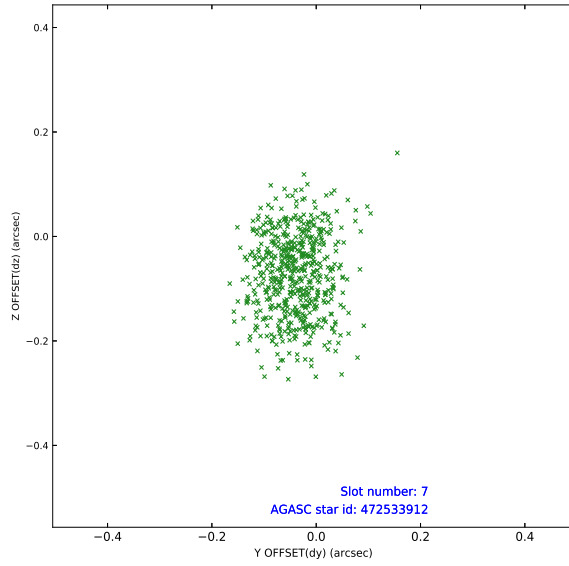
Time (s)



## 2.4.4 Slot 6

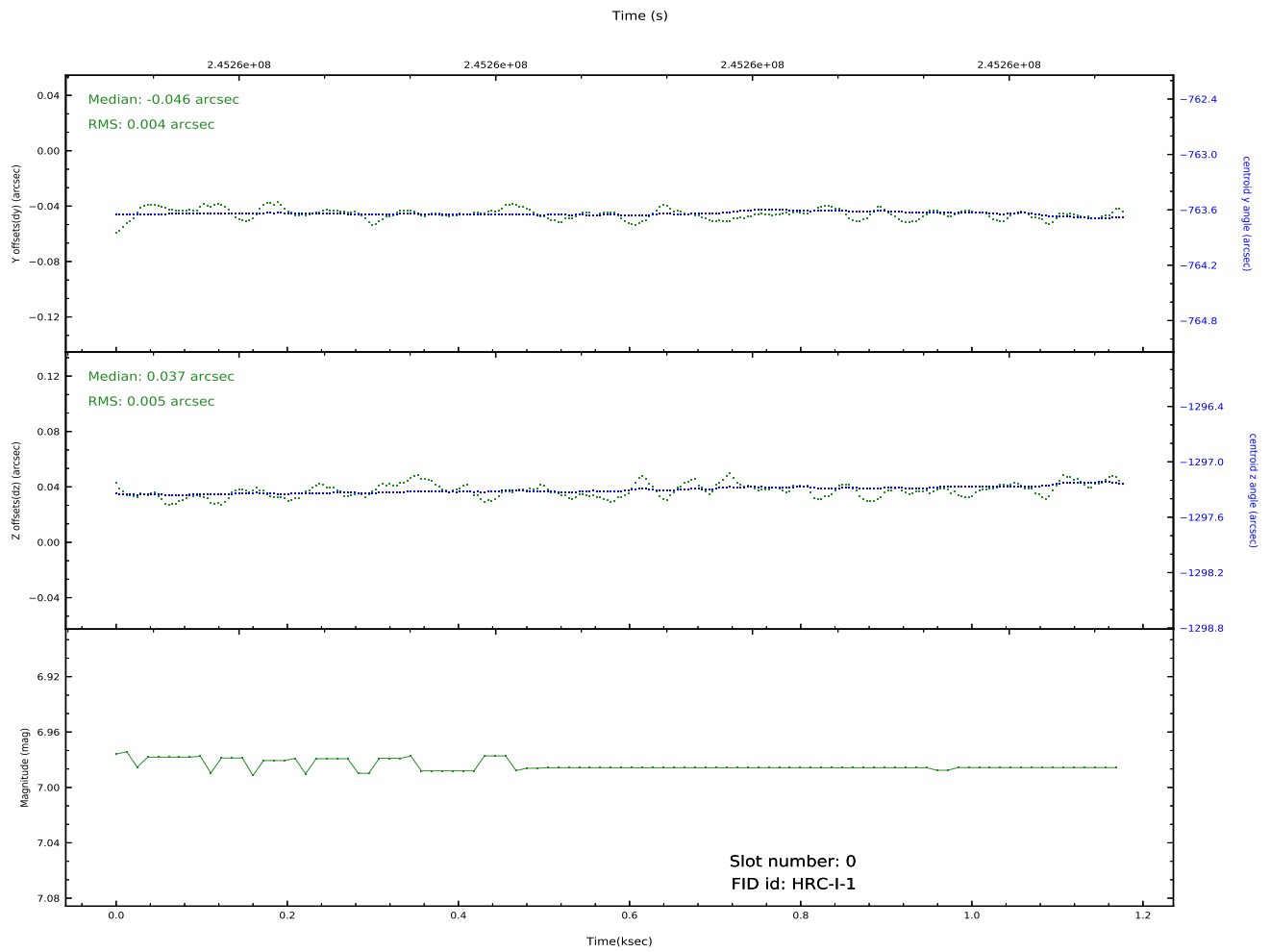
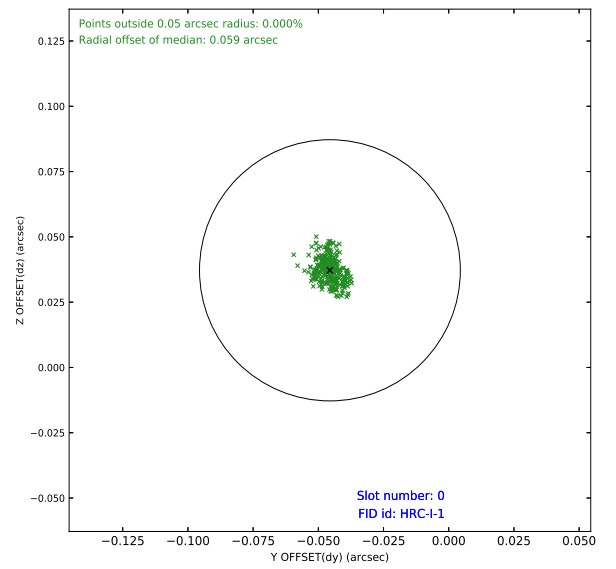
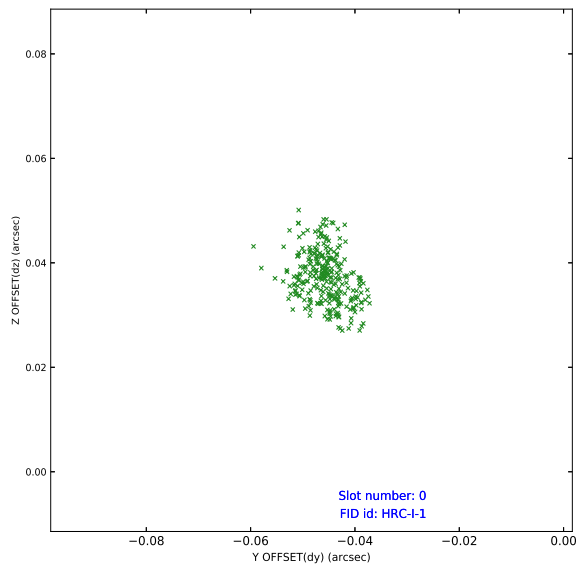


## 2.4.5 Slot 7

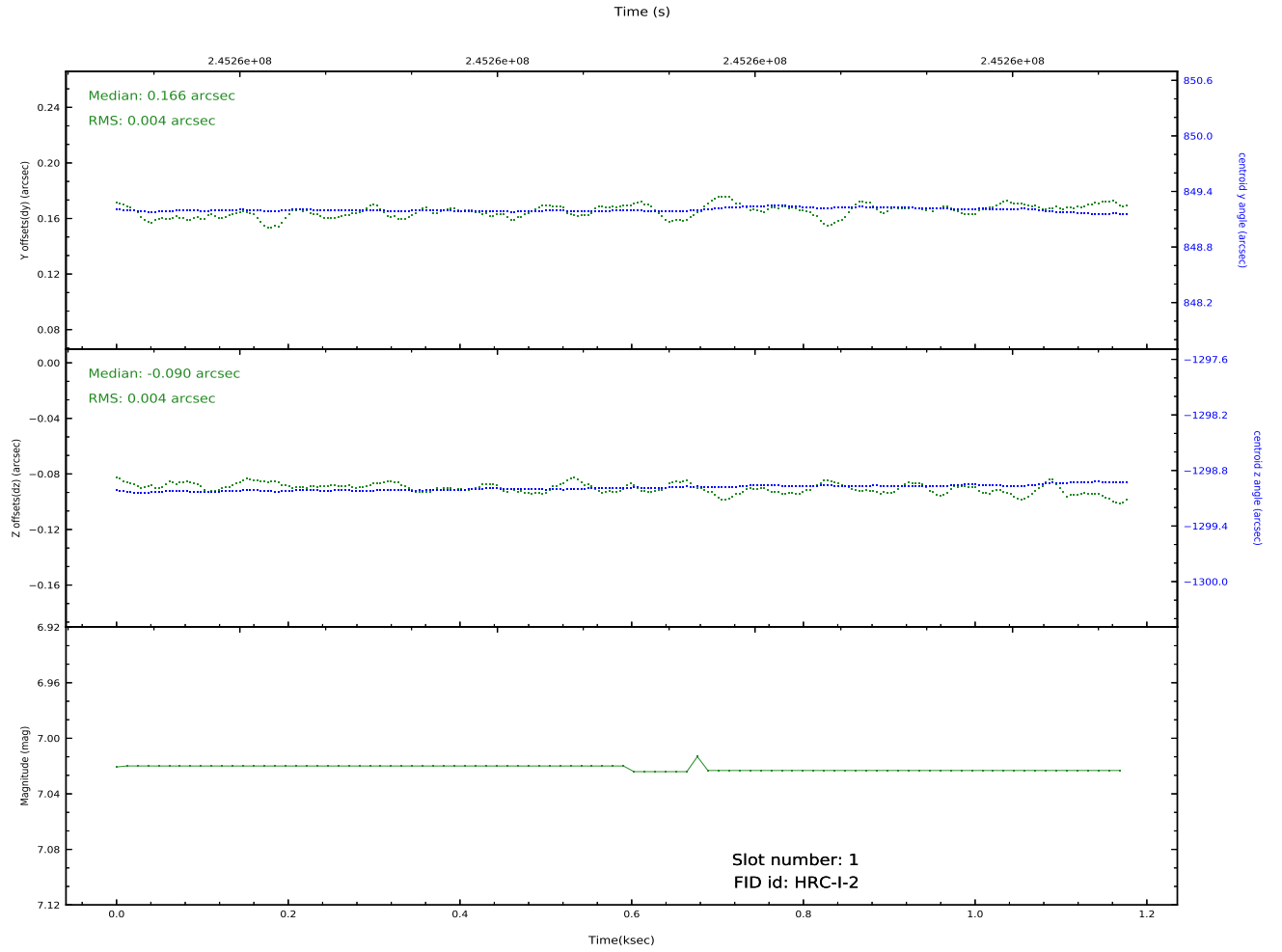
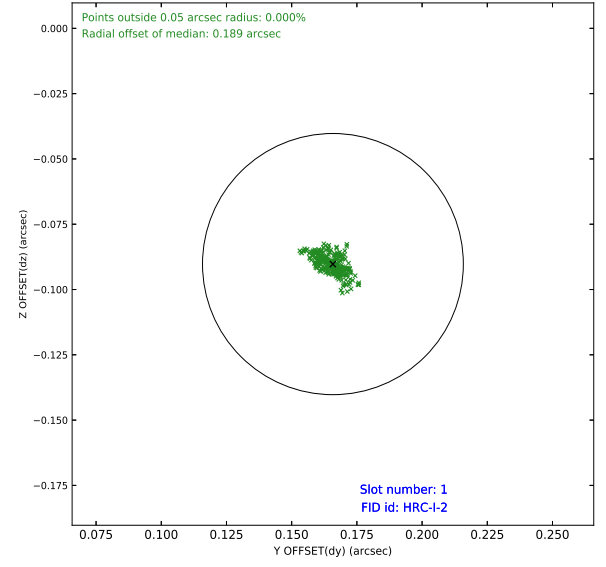
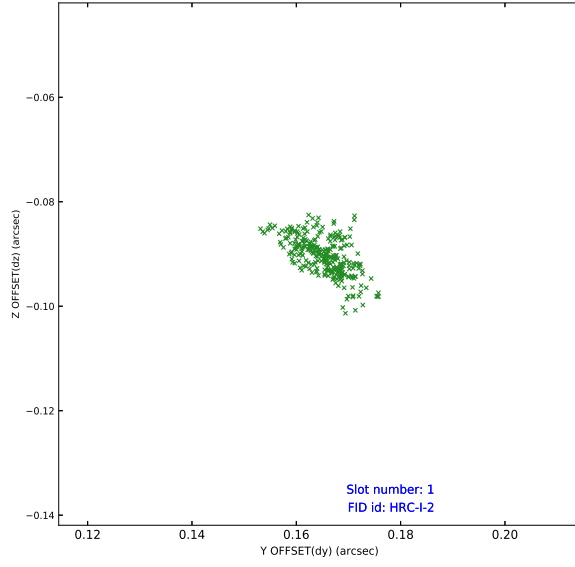


## 2.5 FID Slots

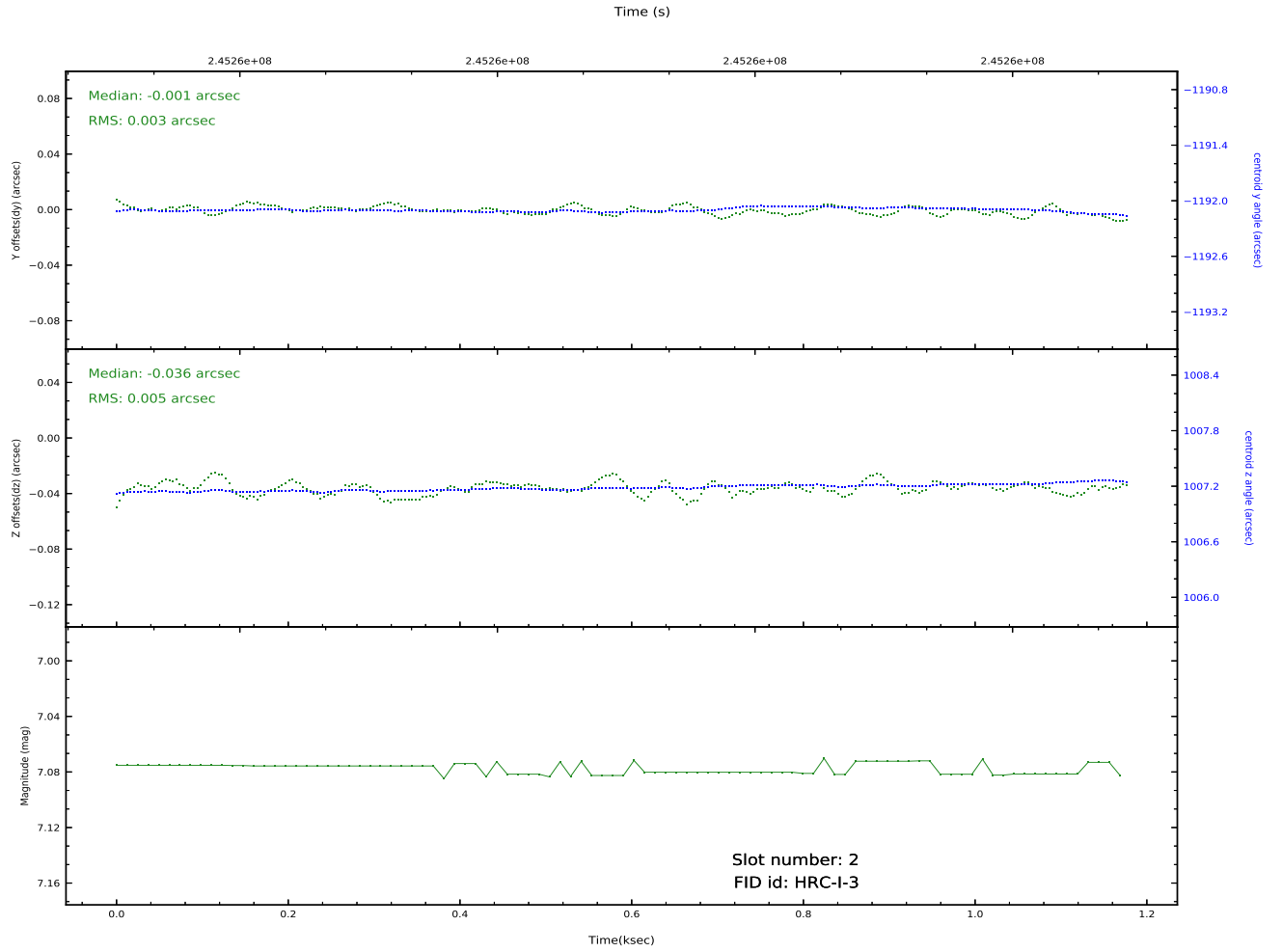
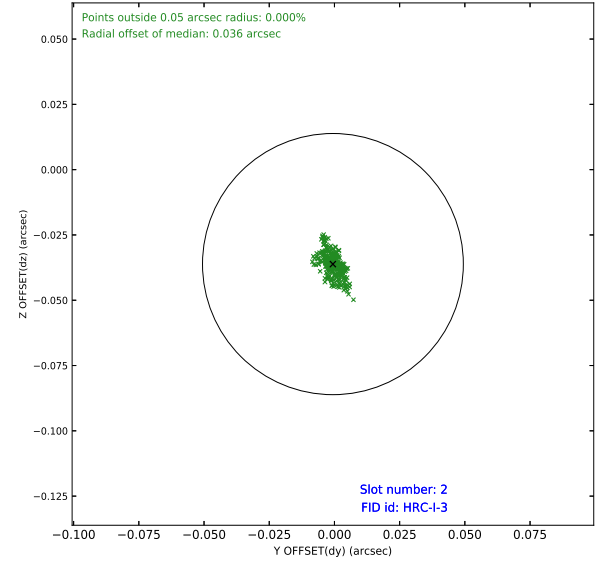
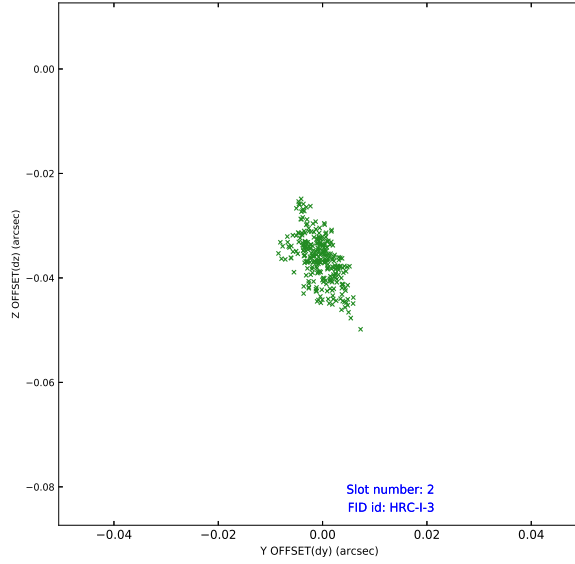
### 2.5.1 Slot 0



## 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	1.179775

### A.2 Comments