

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5073 - L2 Version 5  
Chandra X-Ray Center

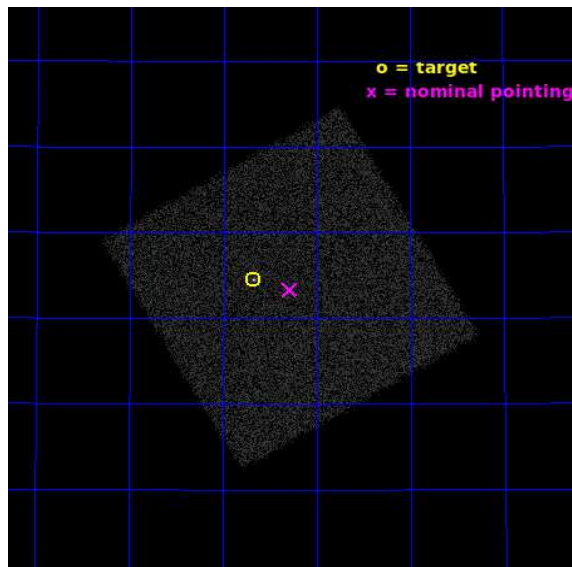
L2 Processing Date : Oct 5 2020

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# 1 Front

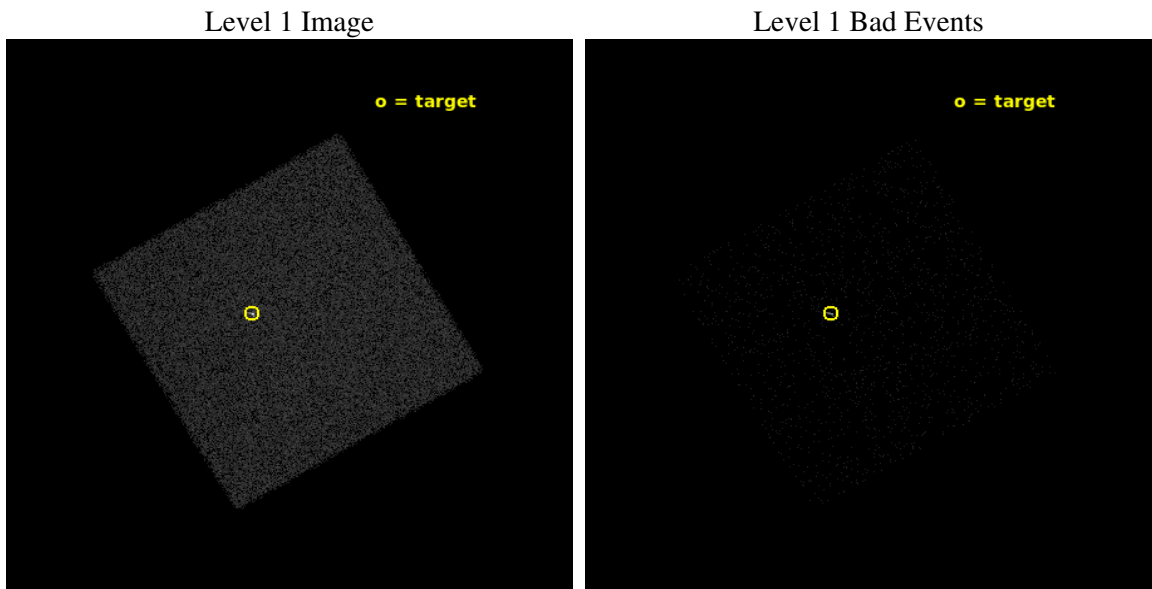
seq_num	290346	Sequence number
obs_id	5073	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.07220608876	Nominal RA [deg]
dec_nom	45.722721061142	Nominal Dec [deg]
roll_nom	284.62345713634	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1079.5812985301	[s]
livetime	1070.7882677496	Ontime multiplied by DTCOR
l2events	55420	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 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	1079.5812985301	[s]
caldbver	4.9.2	&#160	l1events	108963	Number of level 1 events
date	2020-10-05T06:24:44	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

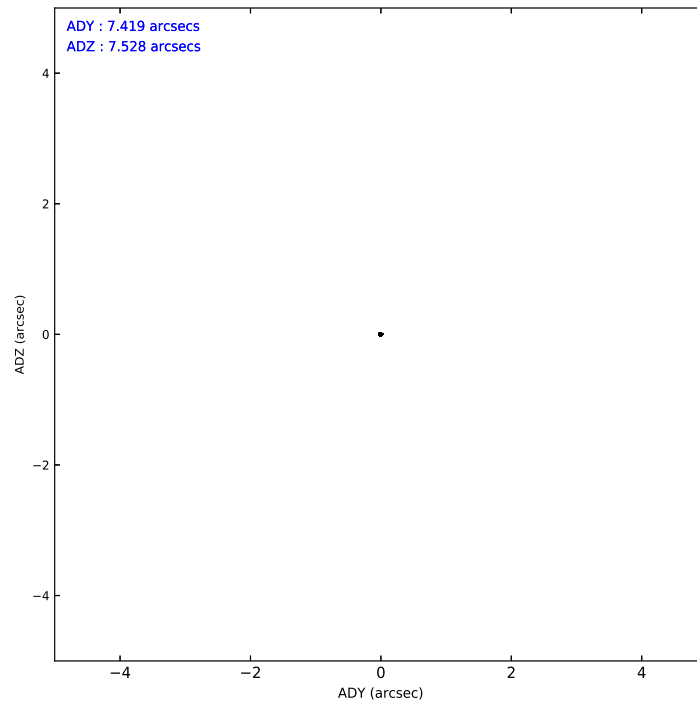
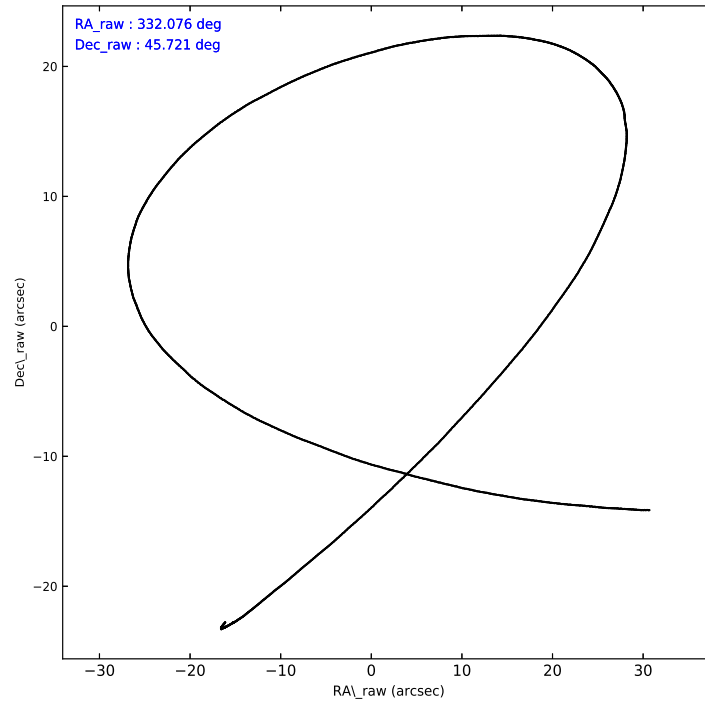
	<b>segment 0</b>
level 1 events	108963
rejected events	30993
rejected %	28%

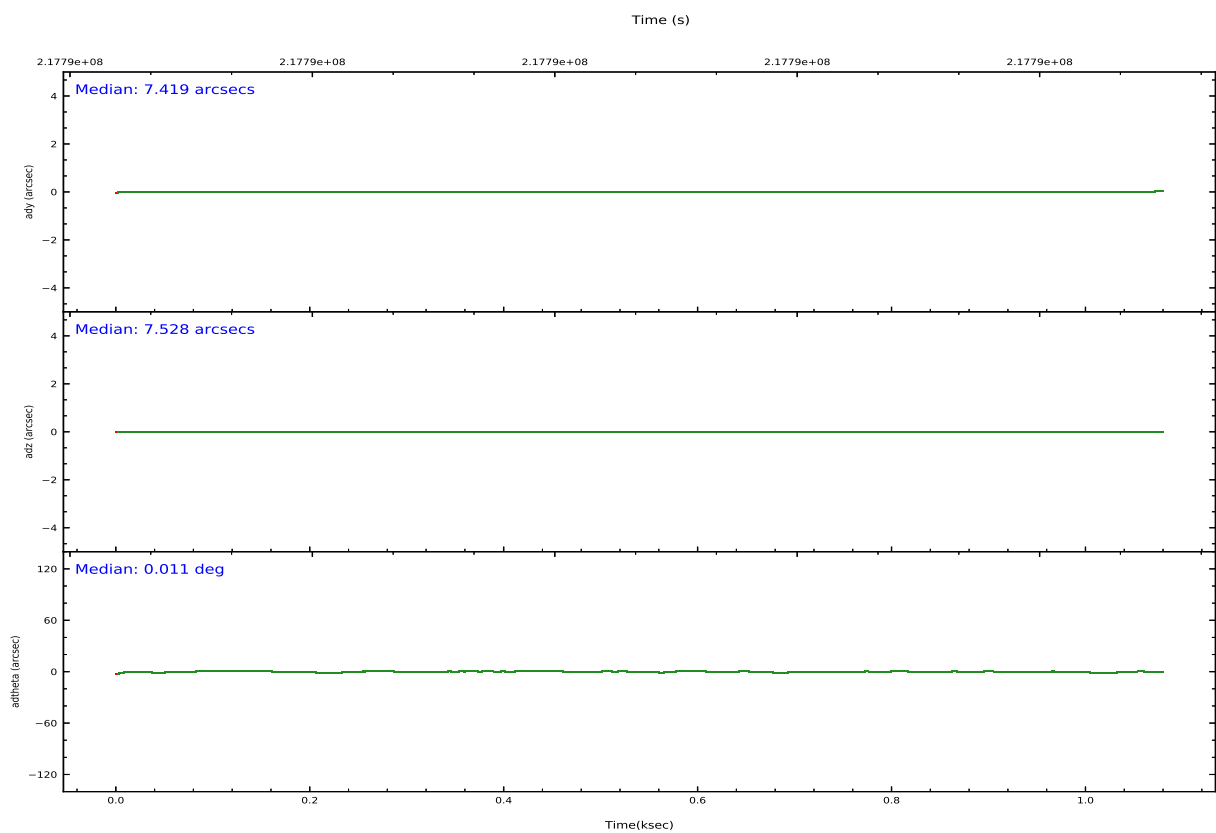
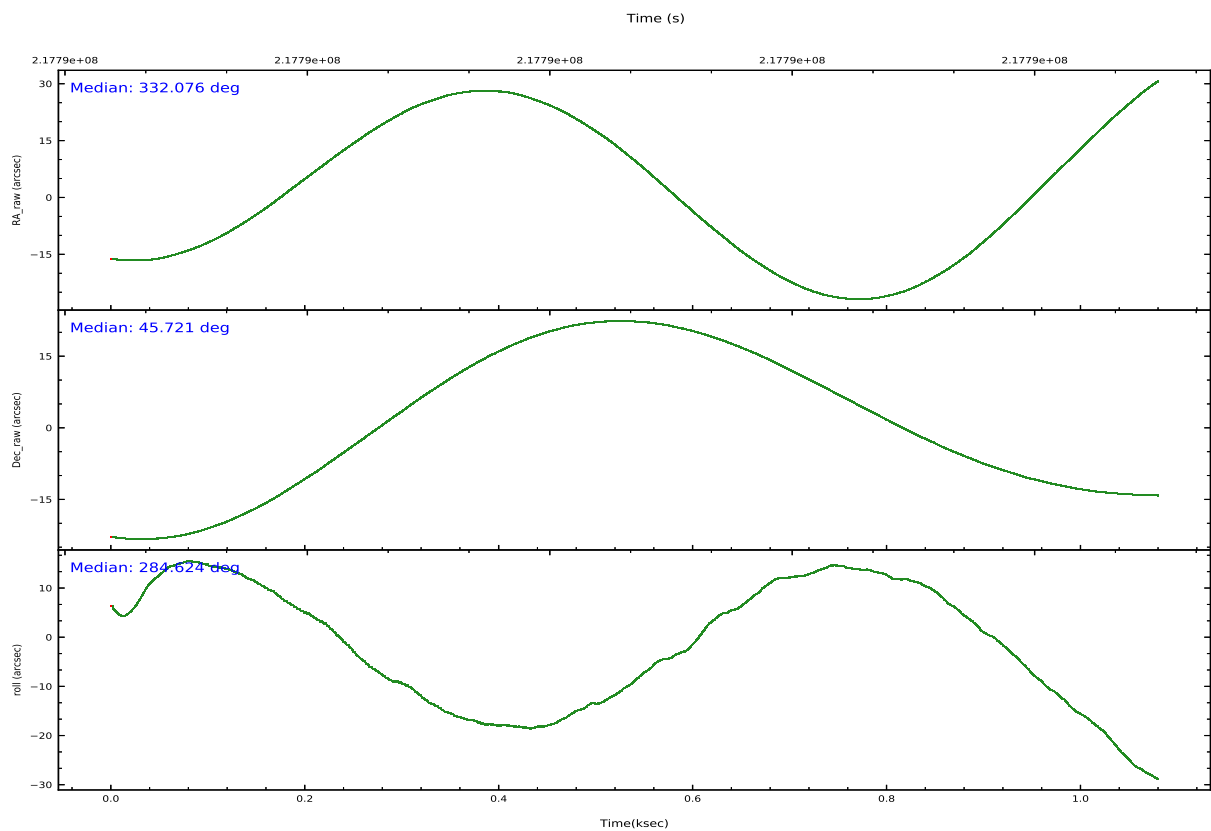
## 2.2 Compared Parameters

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	332.048850	332.07220608876
[deg] Pointing Dec	45.740095	45.722721061142
[deg] Pointing Roll	284.755127	284.62345713634
[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)	217792977.184000	217792600.85853
Observation start date	2004-11-25T18:01:53	2004-11-25T17:56:40
[s] Observation end time (MET)	217793877.184000	217794011.25859
Observation end date	2004-11-25T18:16:53	2004-11-25T18:20:11

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

## 2.3 Aspect





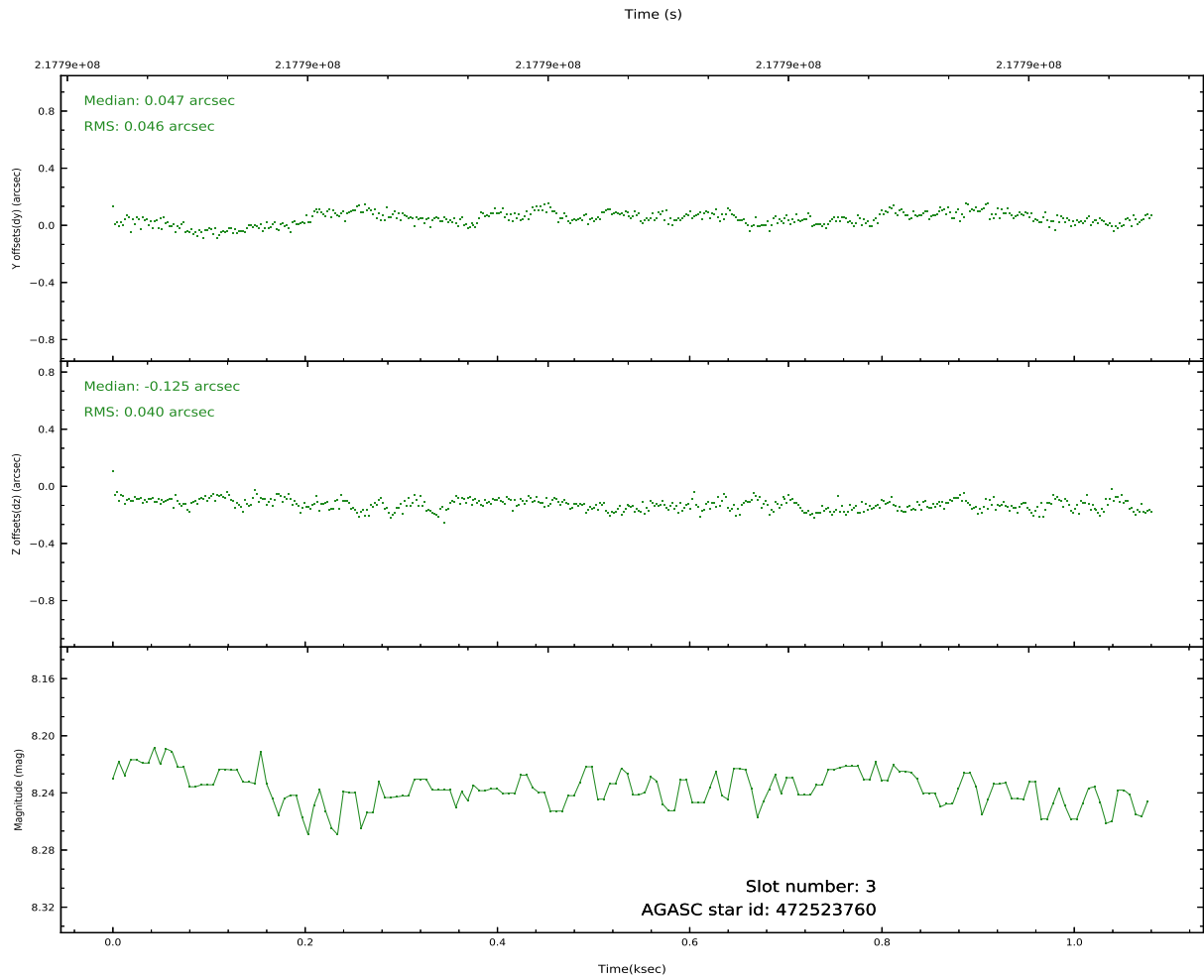
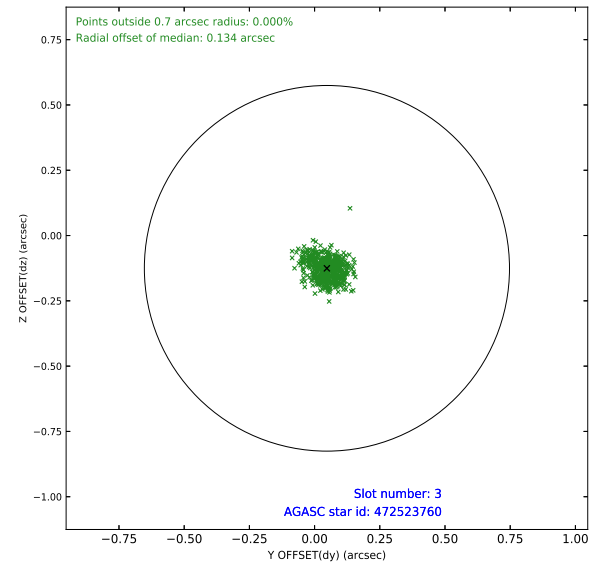
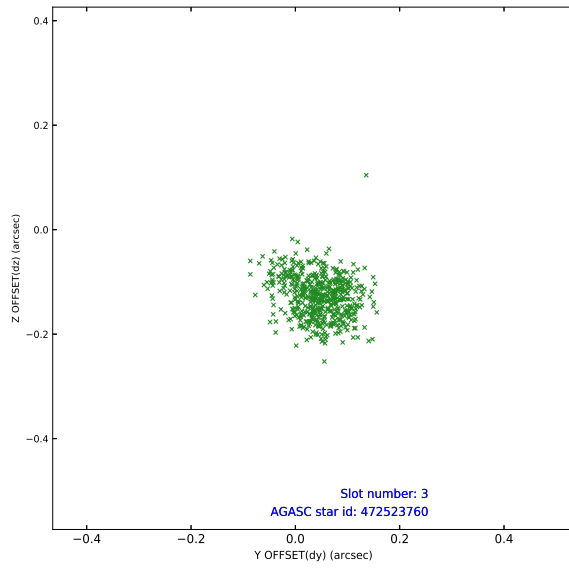
Slot Statistics

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	7.01	264	1.000	0.013	-0.043	0.006	0.010	0.000000	0.000000	-763.05	-1295
1	FID		HRC-I-3	7.10	264	1.000	-0.085	-0.041	0.007	0.011	0.000000	0.000000	-1194.44	1004
2	FID		HRC-I-4	7.05	264	1.000	0.187	-0.006	0.006	0.010	0.000000	0.000000	1275.48	1010
3	GUIDE	used	472523760	8.24	528	1.000	0.047	-0.125	0.065	0.104	331.645363	45.403260	911.02	-1292
4	GUIDE	used	472655152	9.43	527	1.000	0.059	0.176	0.107	0.182	332.504239	45.862991	-138.14	1217
5	GUIDE	used	472659832	9.47	526	1.000	-0.071	0.046	0.107	0.192	332.780399	46.098139	-789.58	2100
6	GUIDE	used	472527720	7.02	528	1.000	0.120	-0.069	0.080	0.138	331.460205	45.112509	1797.96	-2014
7	GUIDE	used	472535576	7.86	527	1.000	-0.157	-0.013	0.053	0.090	331.438373	46.291802	-2309.27	-963

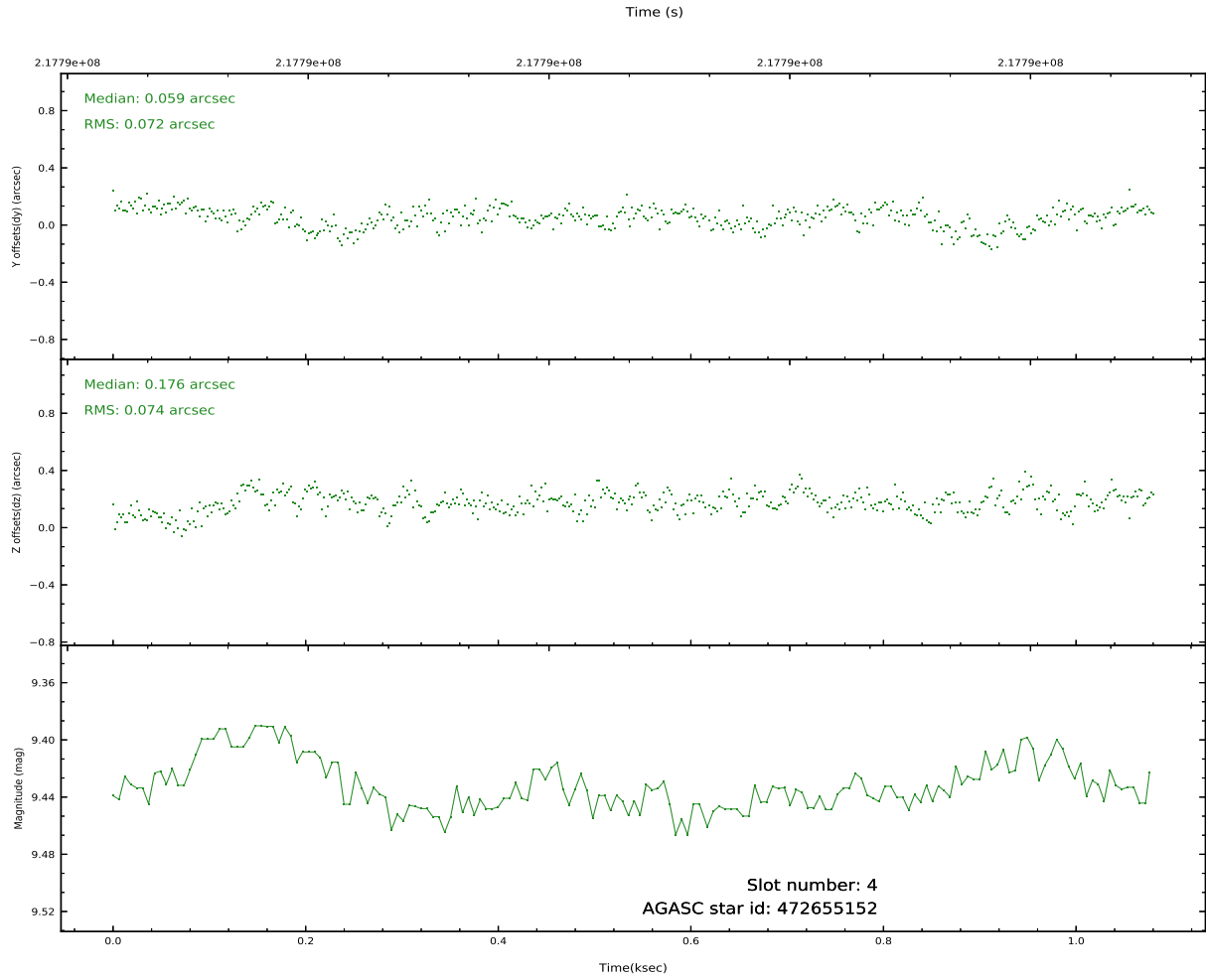
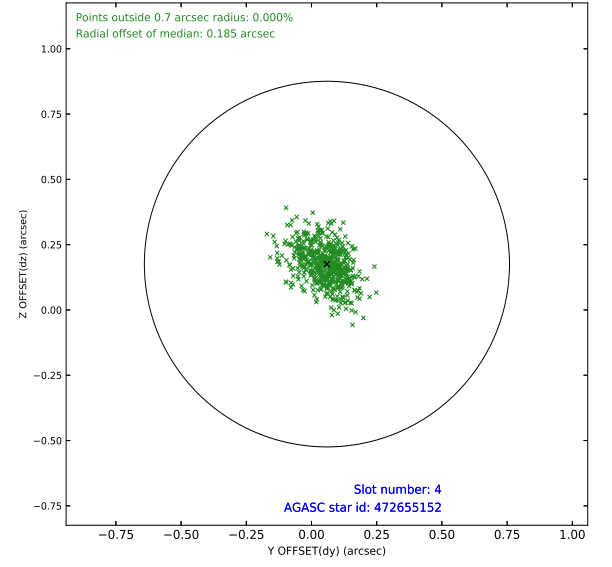
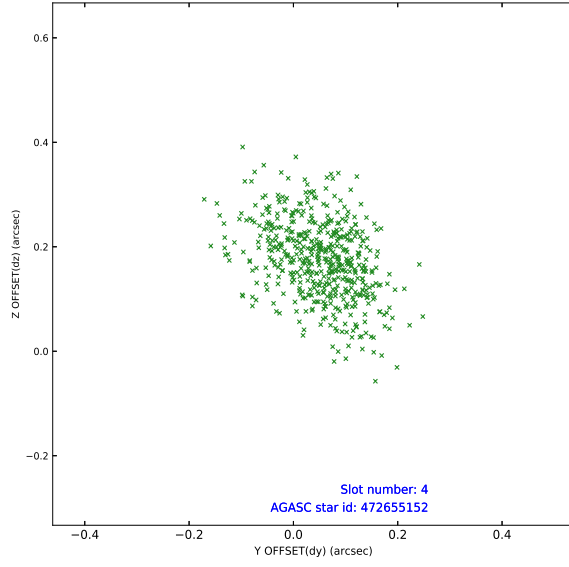


## 2.4 Star Slots

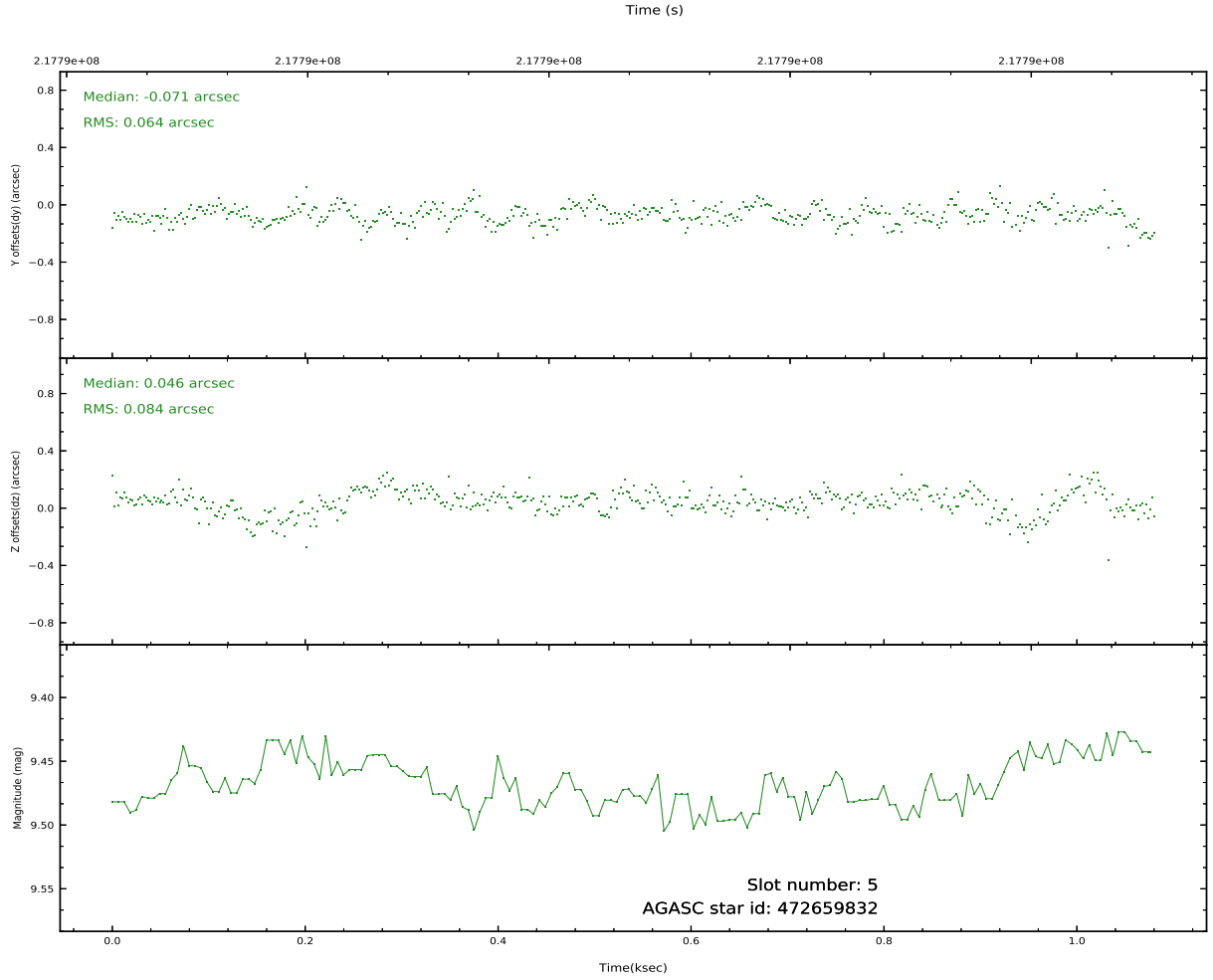
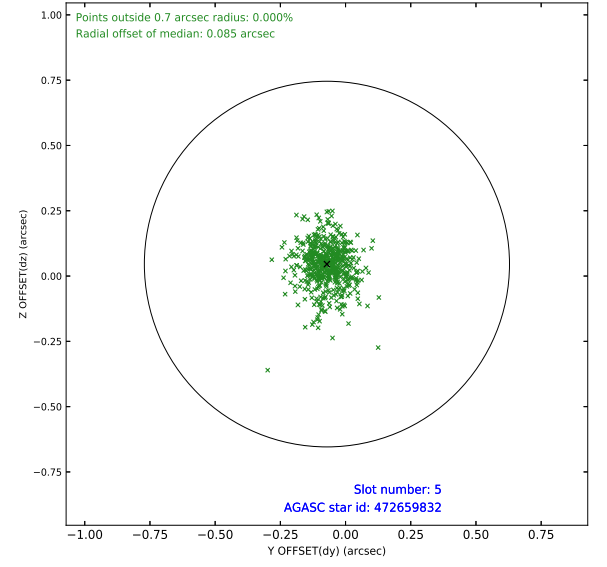
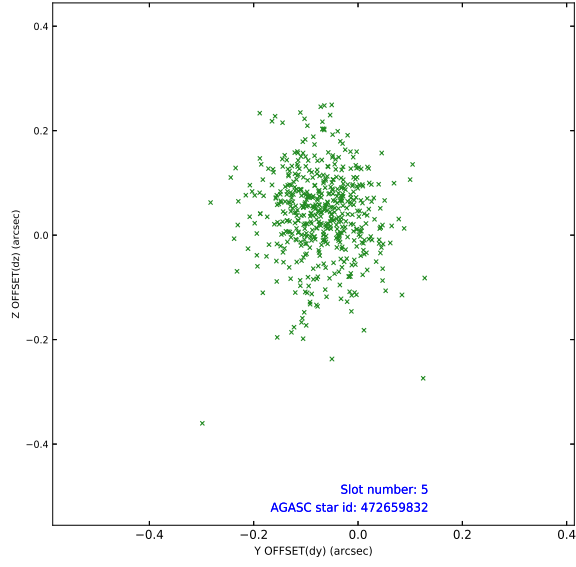
### 2.4.1 Slot 3



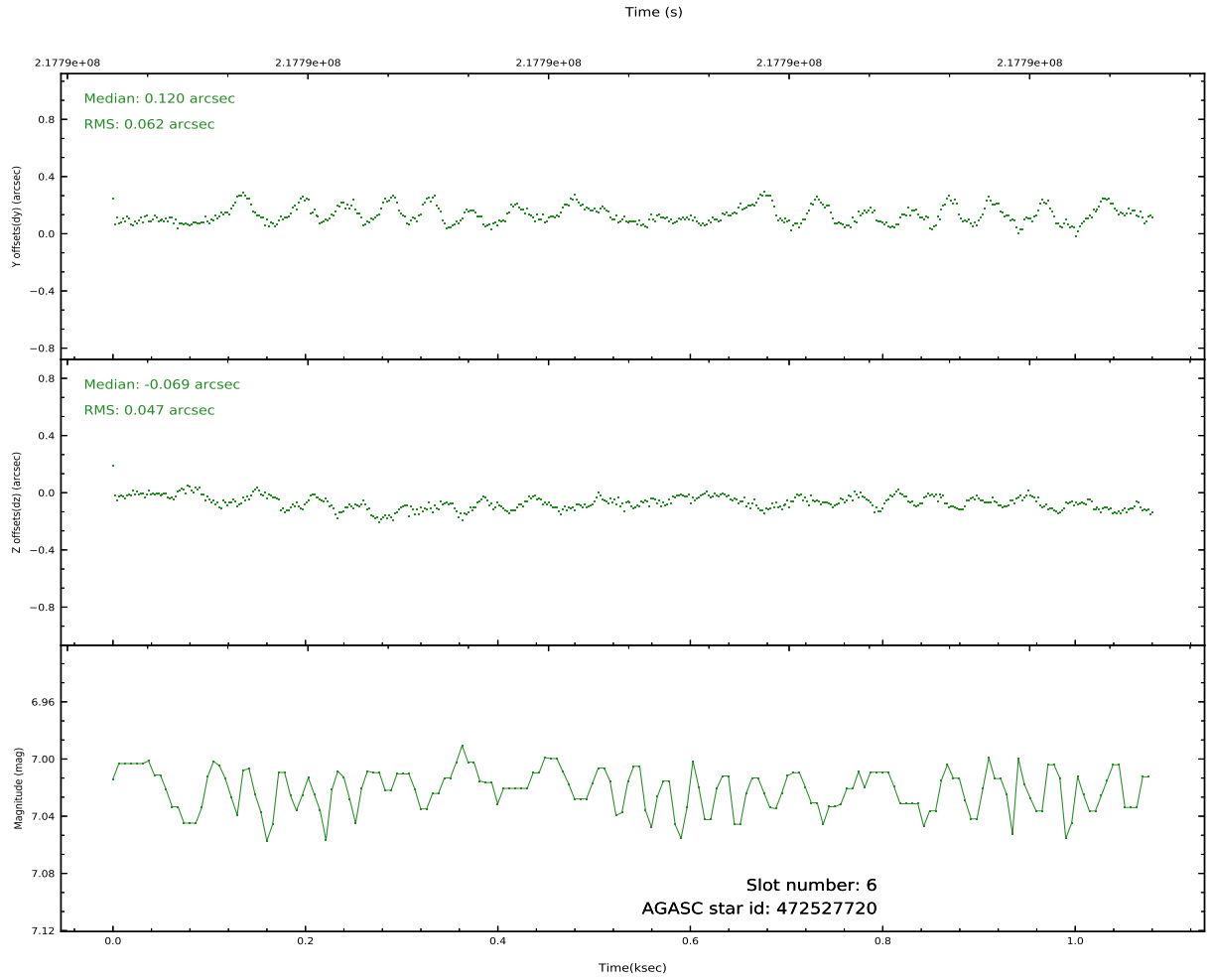
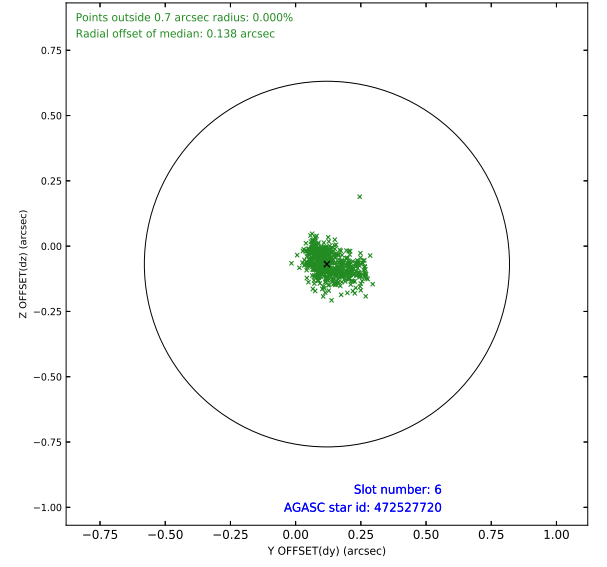
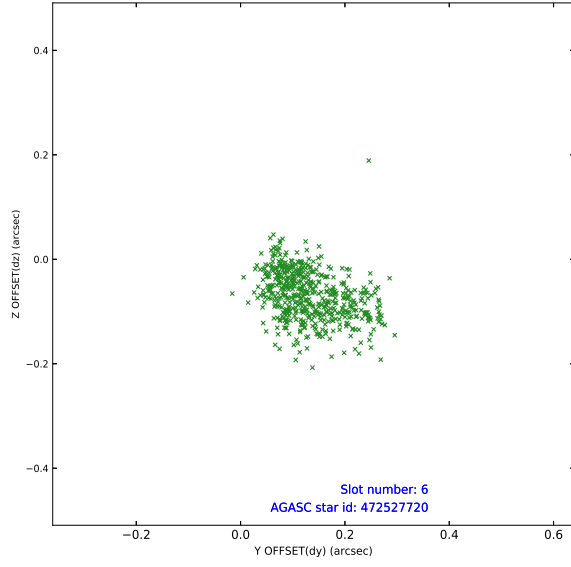
## 2.4.2 Slot 4



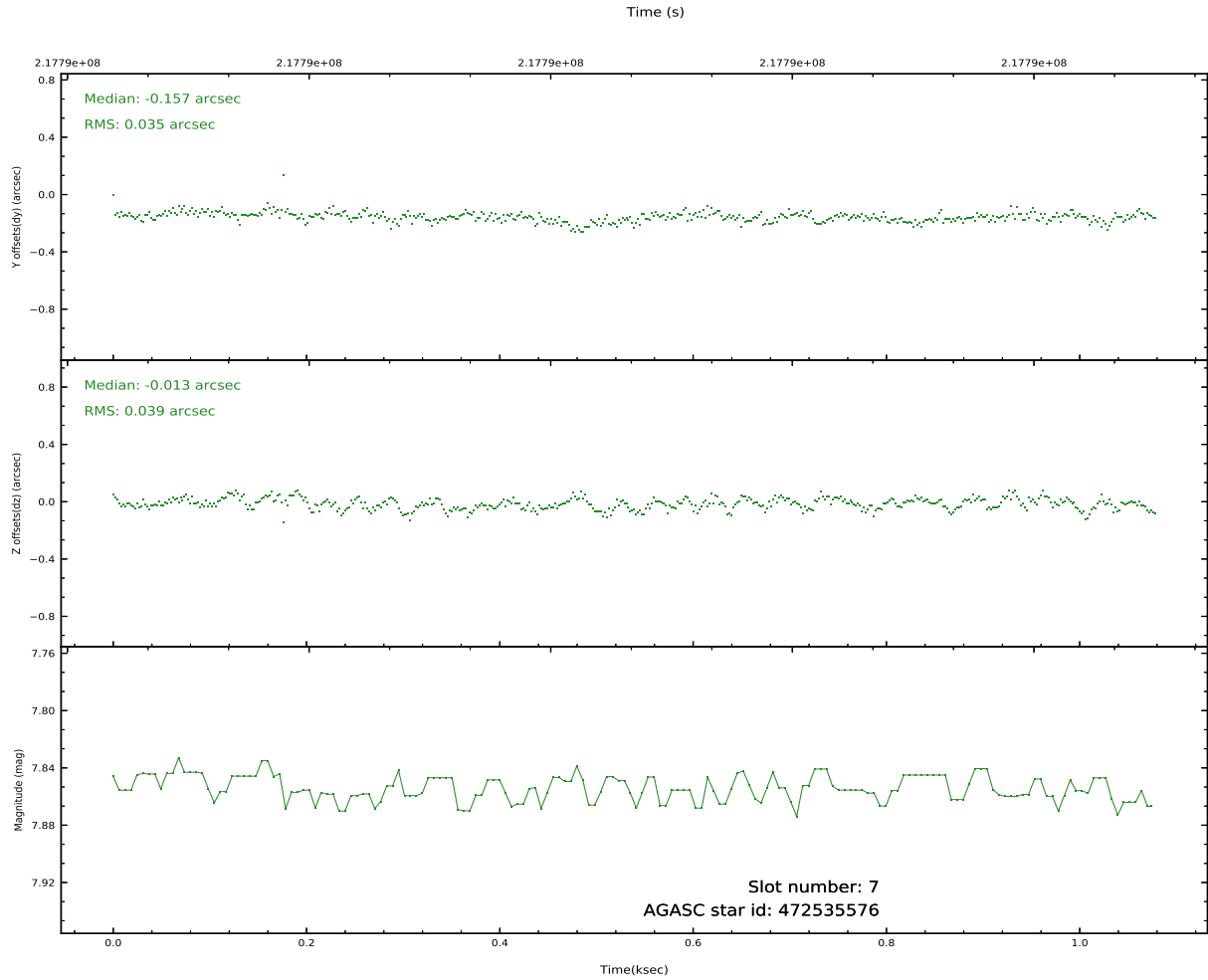
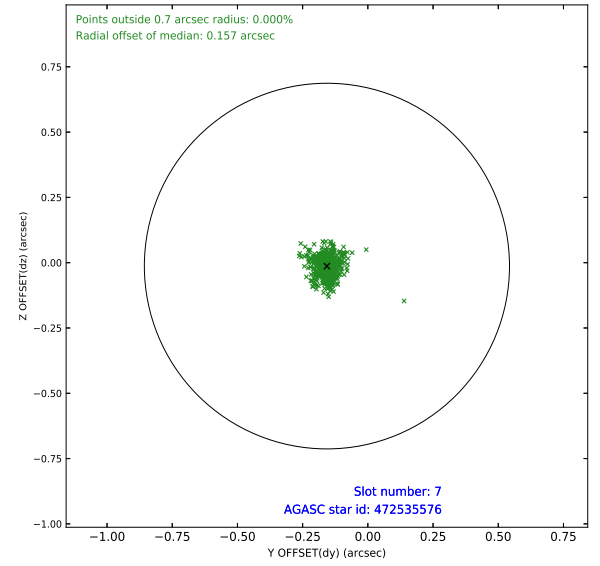
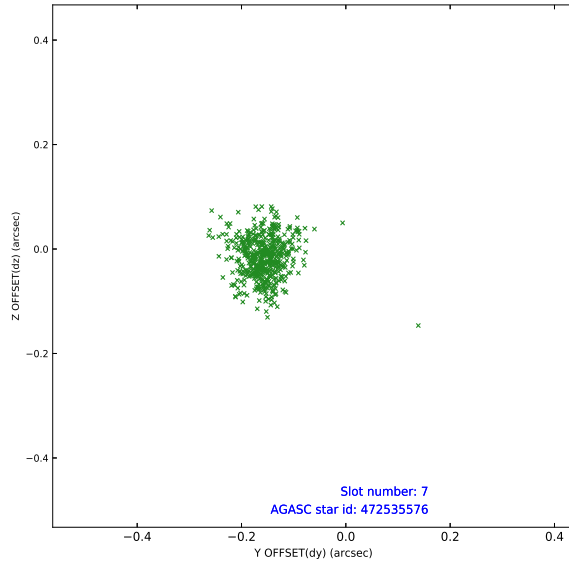
### 2.4.3 Slot 5



## 2.4.4 Slot 6

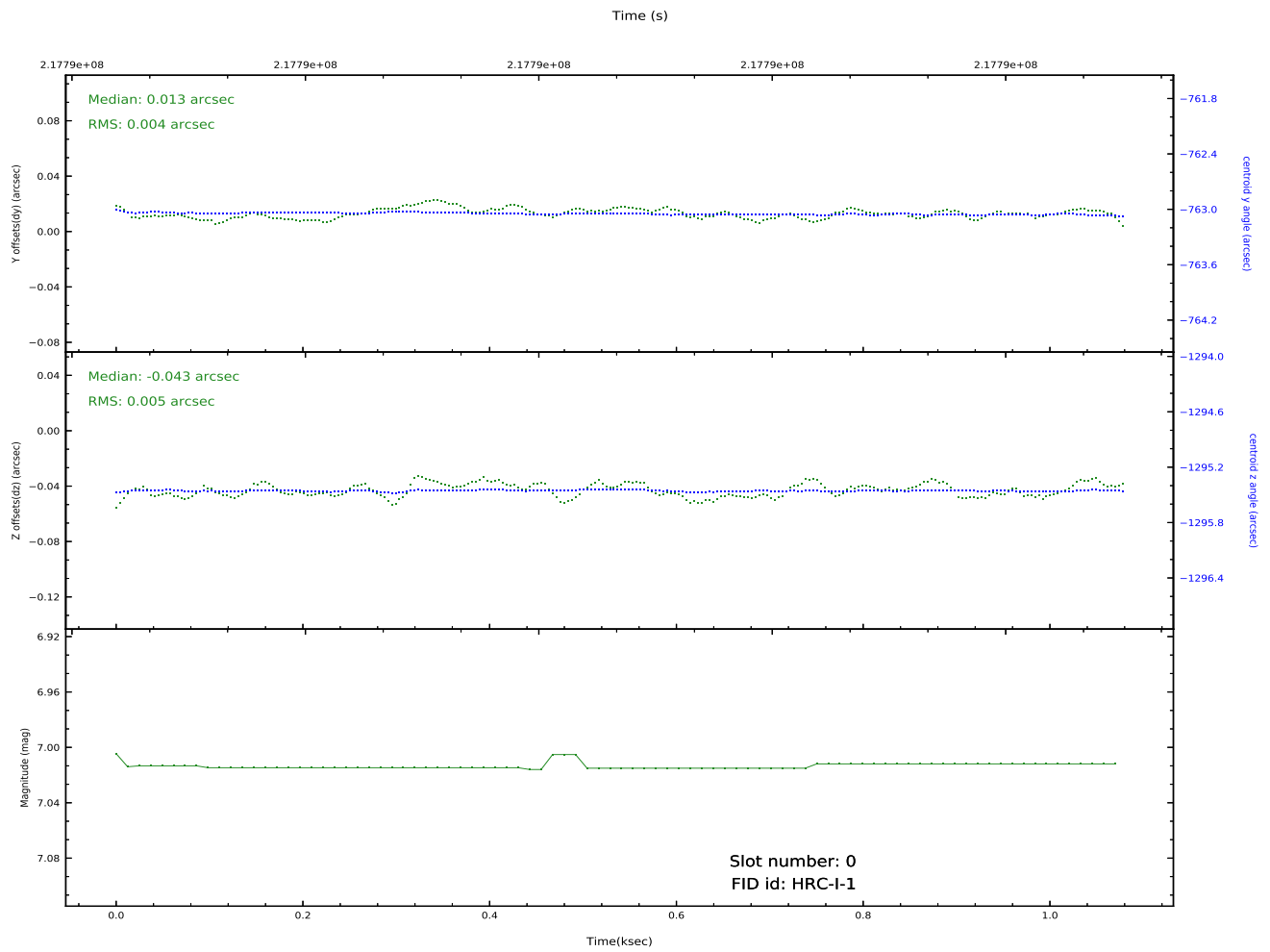
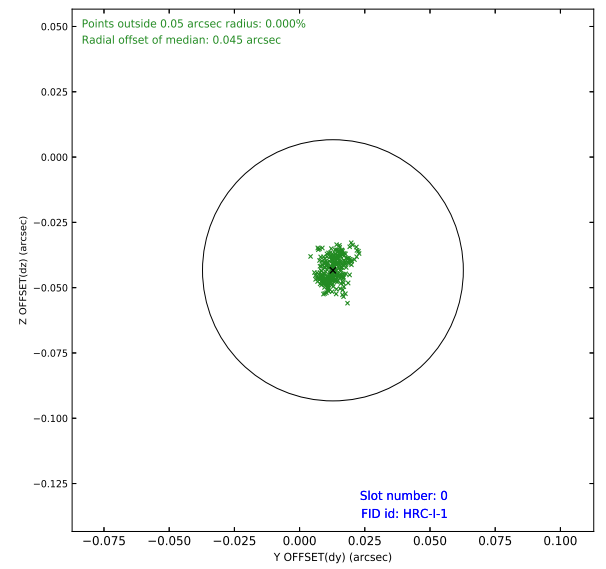
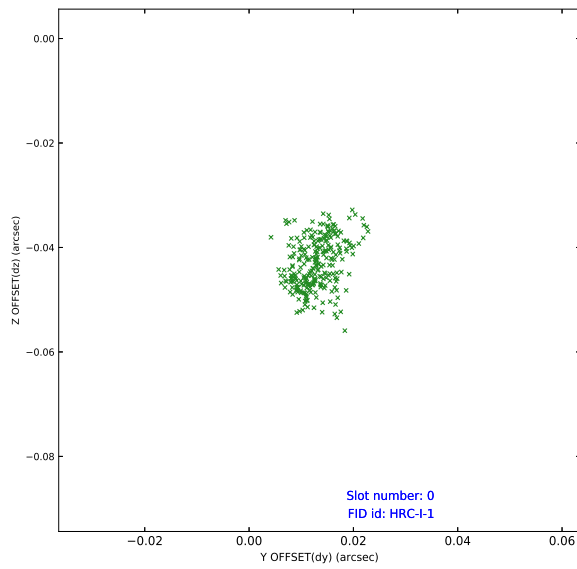


## 2.4.5 Slot 7

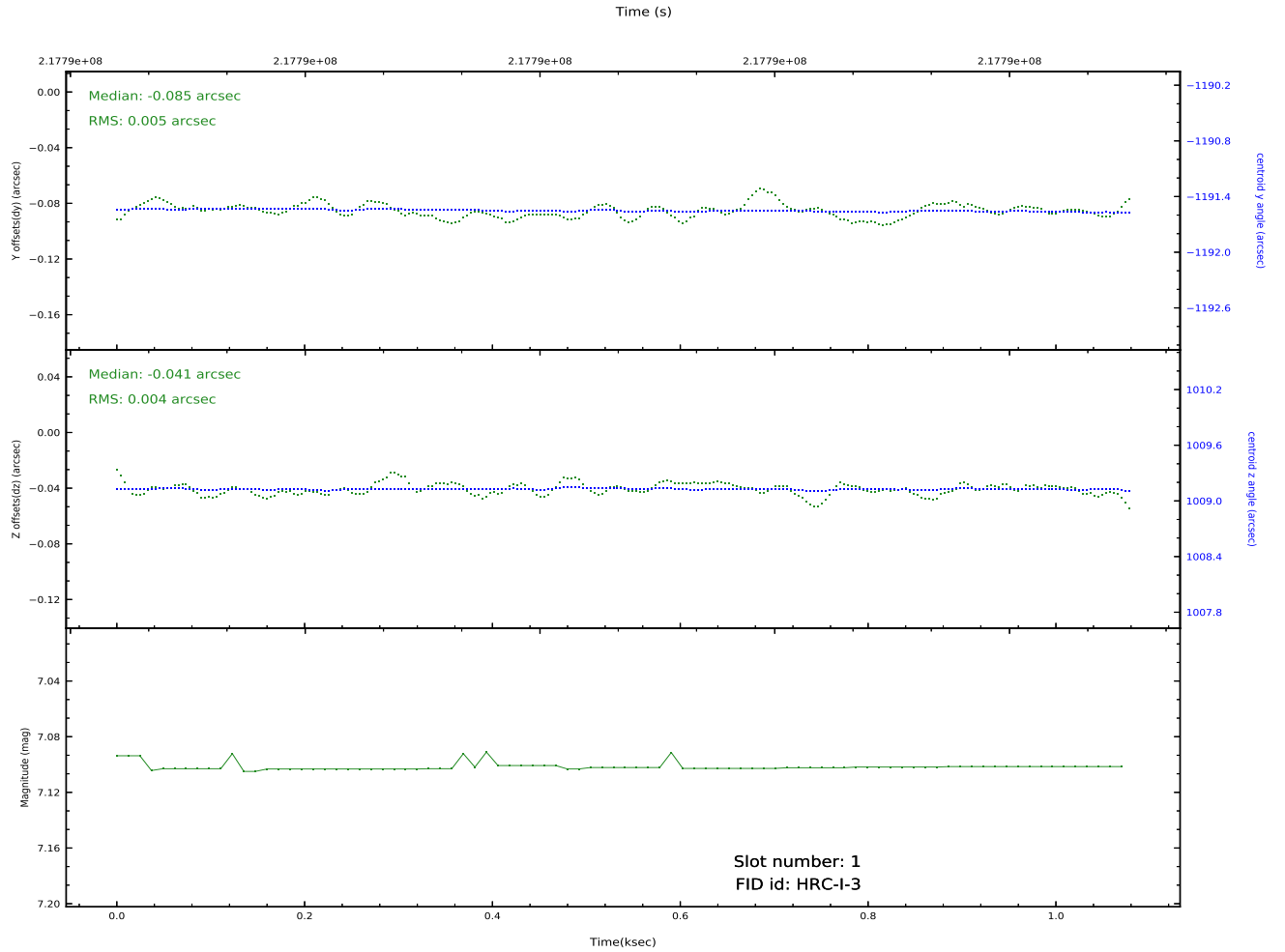
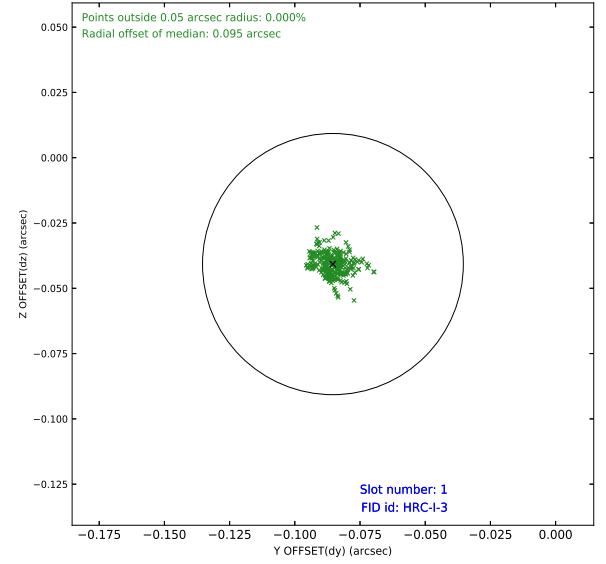
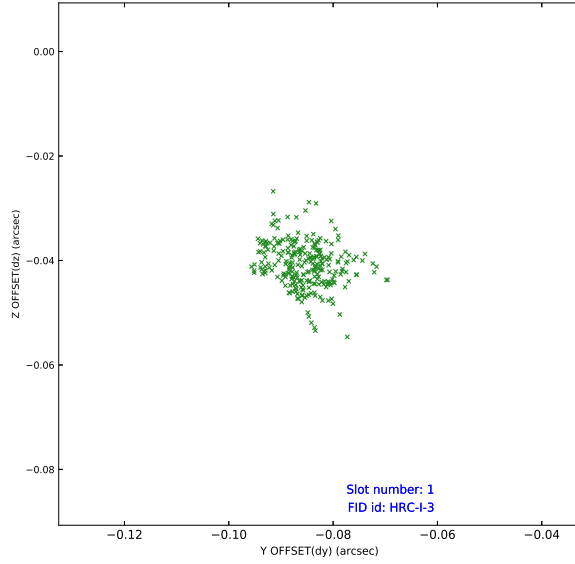


## 2.5 FID Slots

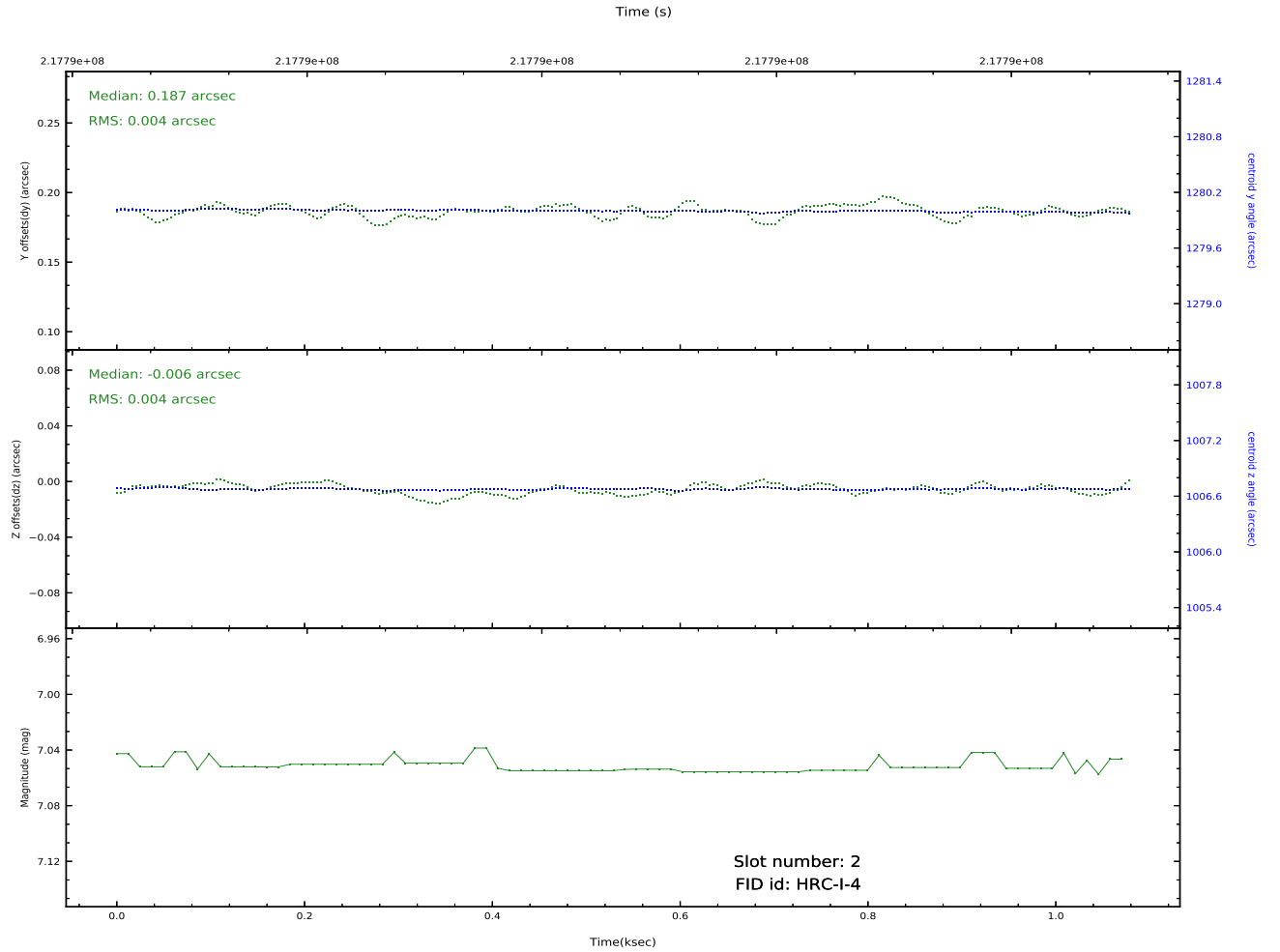
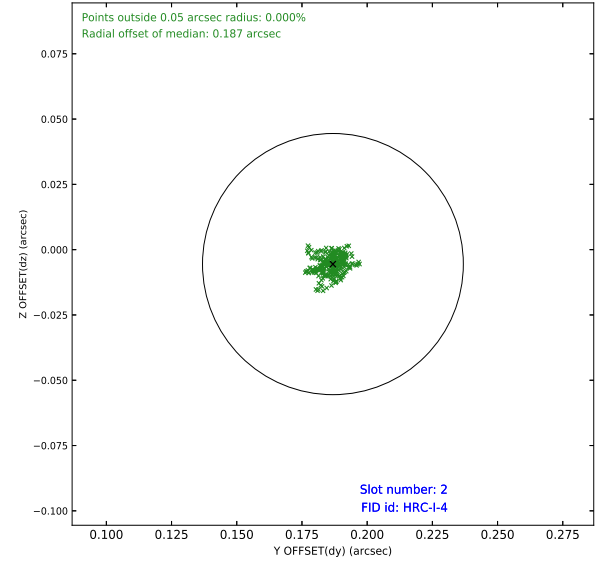
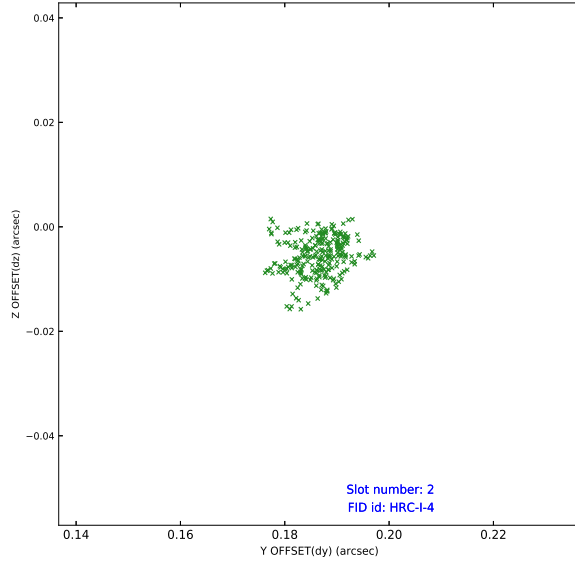
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	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	1.079581

### A.2 Comments