

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5077 - L2 Version 5  
Chandra X-Ray Center

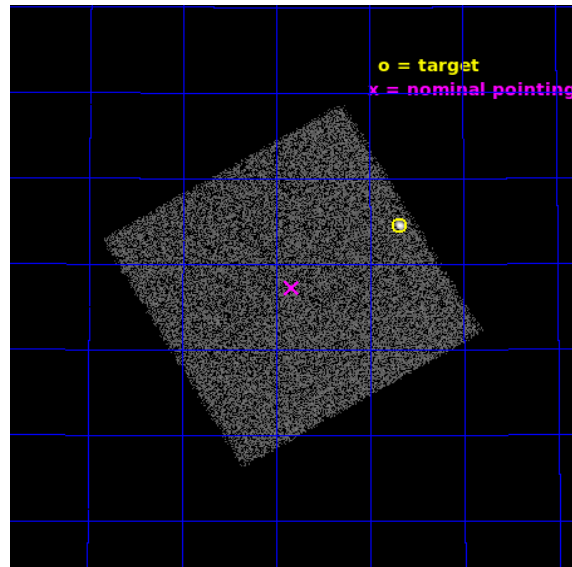
L2 Processing Date : Oct 5 2020

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# 1 Front

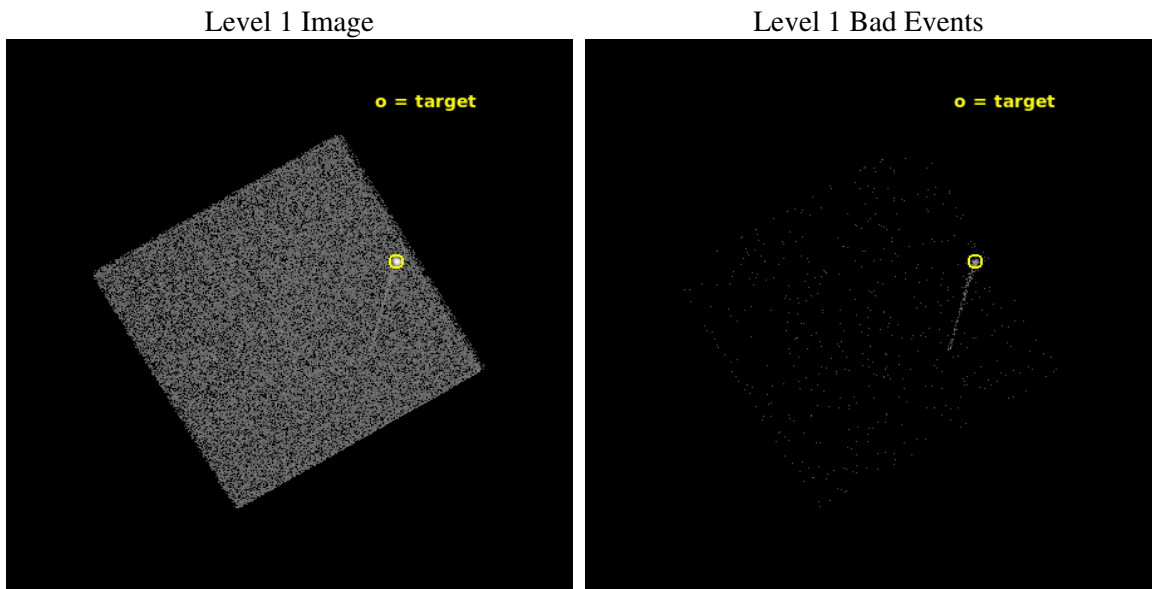
seq_num	290350	Sequence number
obs_id	5077	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.45821577051	Nominal RA [deg]
dec_nom	45.621111608238	Nominal Dec [deg]
roll_nom	284.45109005404	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1089.8312989771	[s]
livetime	1077.4375789346	Ontime multiplied by DTCOR
l2events	52171	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	1089.8312989771	[s]
caldsver	4.9.2	&#160	l1events	94634	Number of level 1 events
date	2020-10-05T06:49:08	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

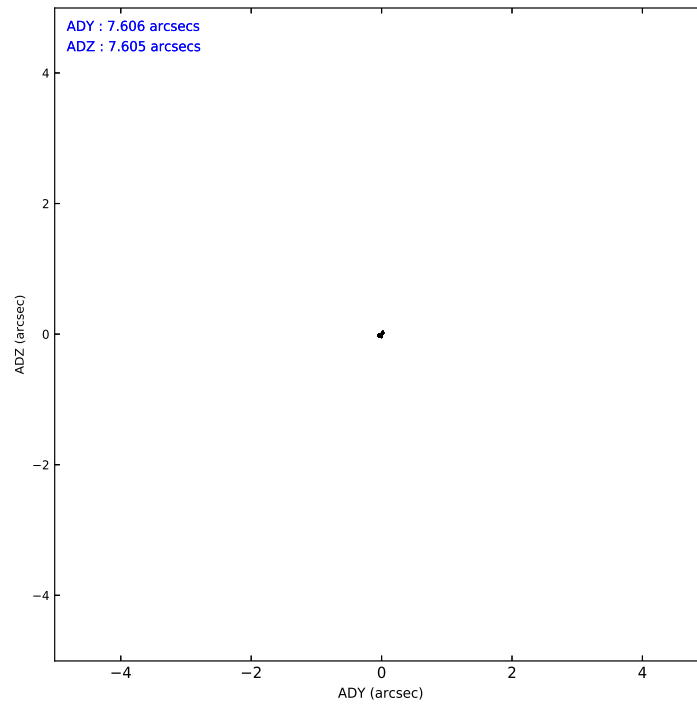
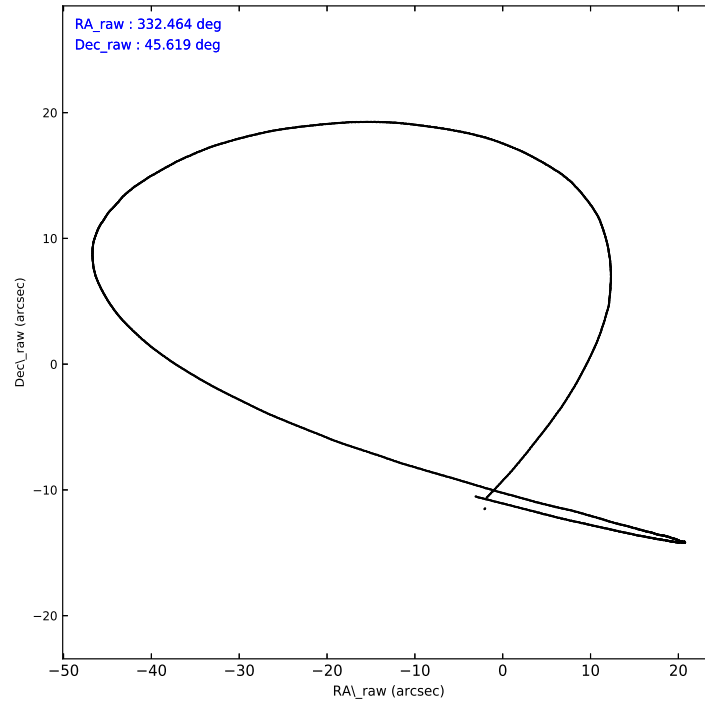
	<b>segment 0</b>
level 1 events	94634
rejected events	18718
rejected %	19%

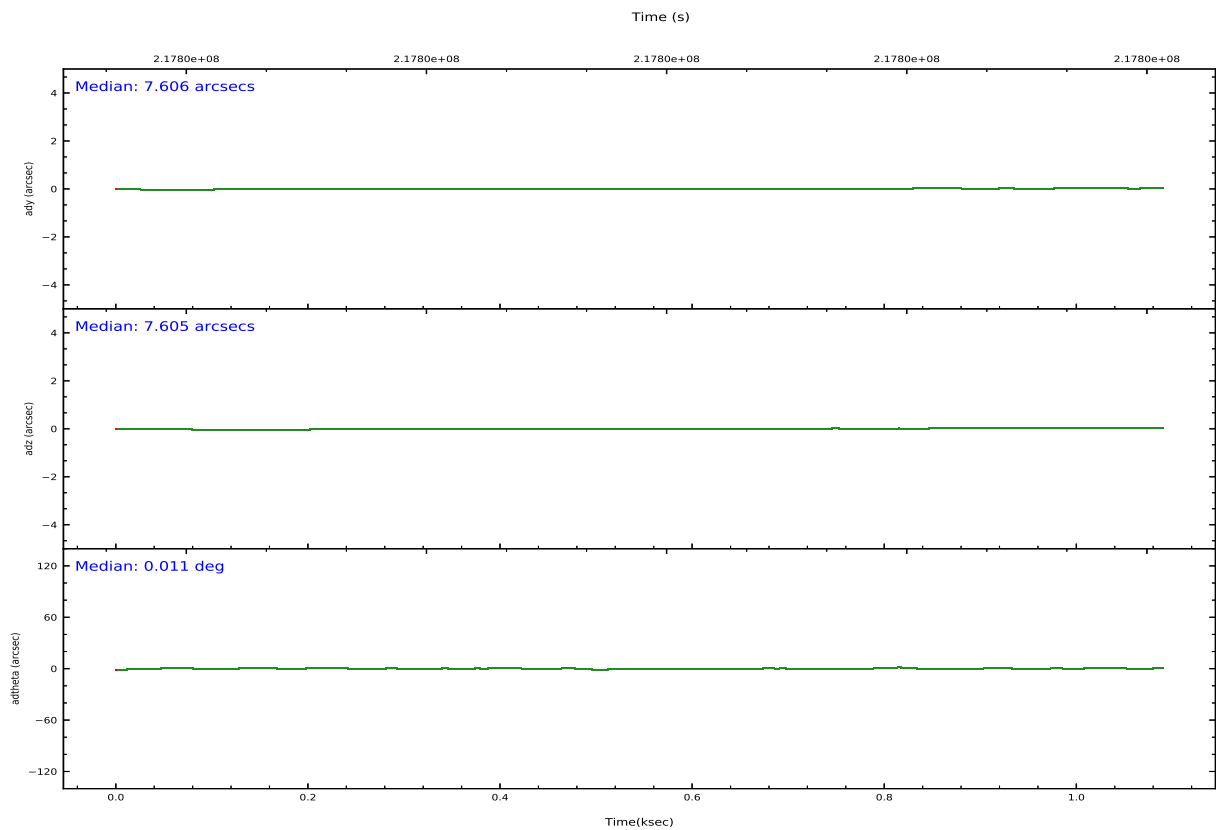
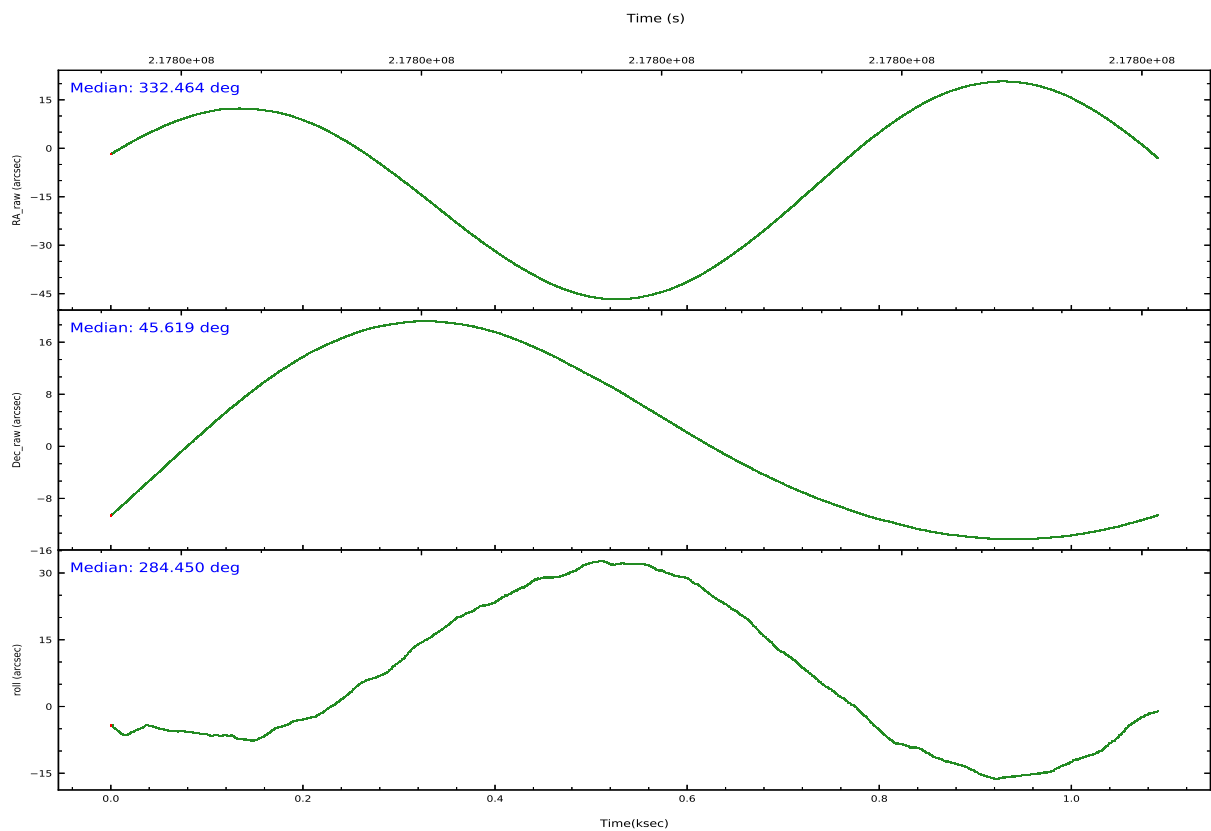
## 2.2 Compared Parameters

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	332.432554	332.45821577051
[deg] Pointing Dec	45.638040	45.621111608238
[deg] Pointing Roll	284.583210	284.45109005404
[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)	217798617.184000	217798241.43378
Observation start date	2004-11-25T19:35:53	2004-11-25T19:30:41
[s] Observation end time (MET)	217799517.184000	217799650.80885
Observation end date	2004-11-25T19:50:53	2004-11-25T19:54:10

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

## 2.3 Aspect



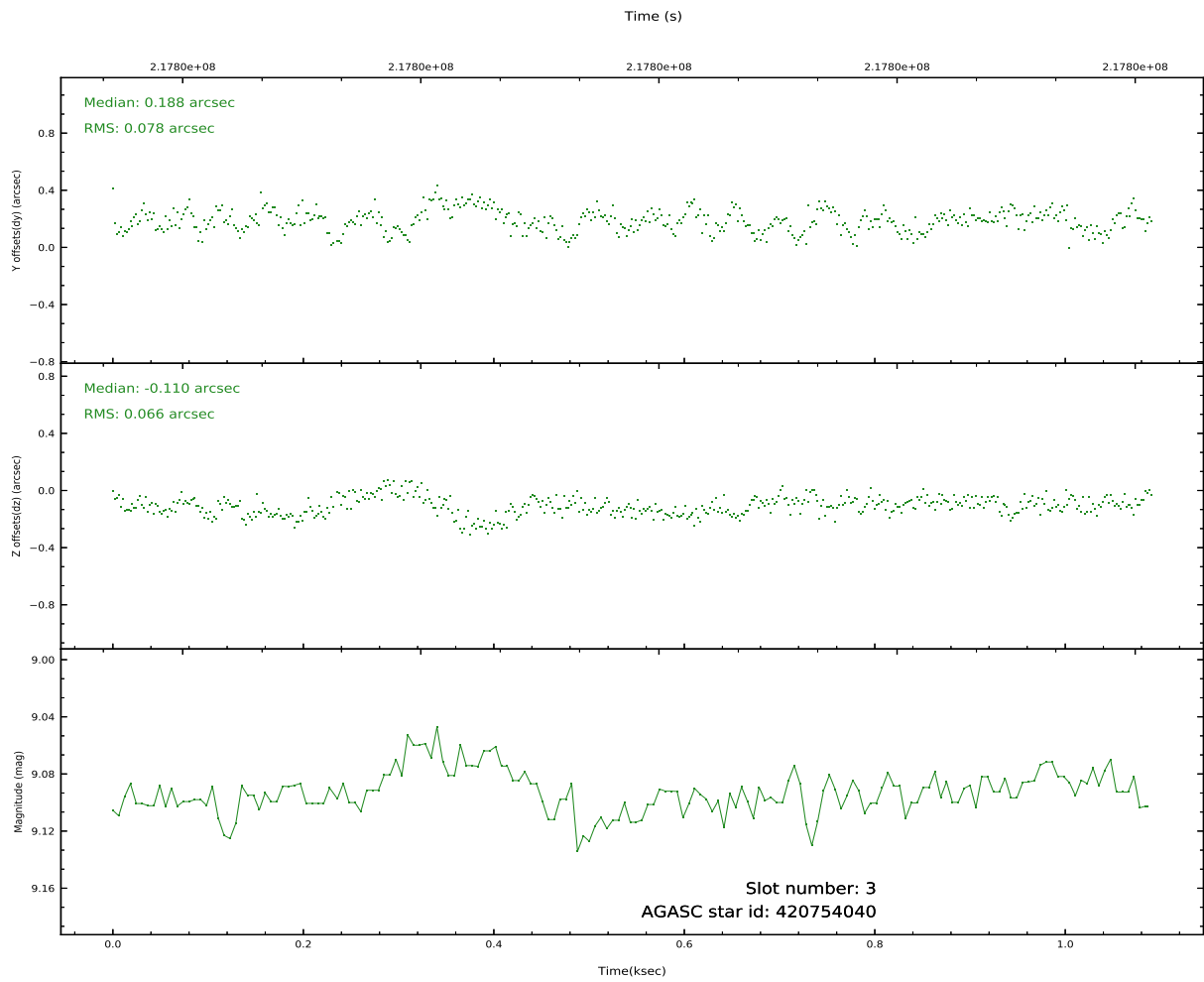
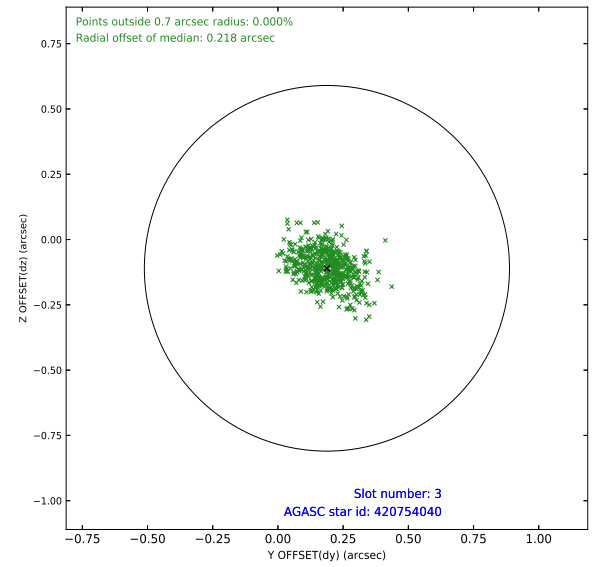
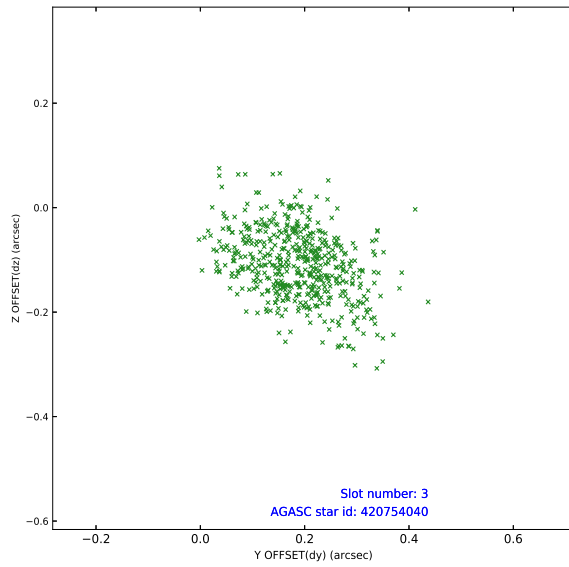


Slot Statistics

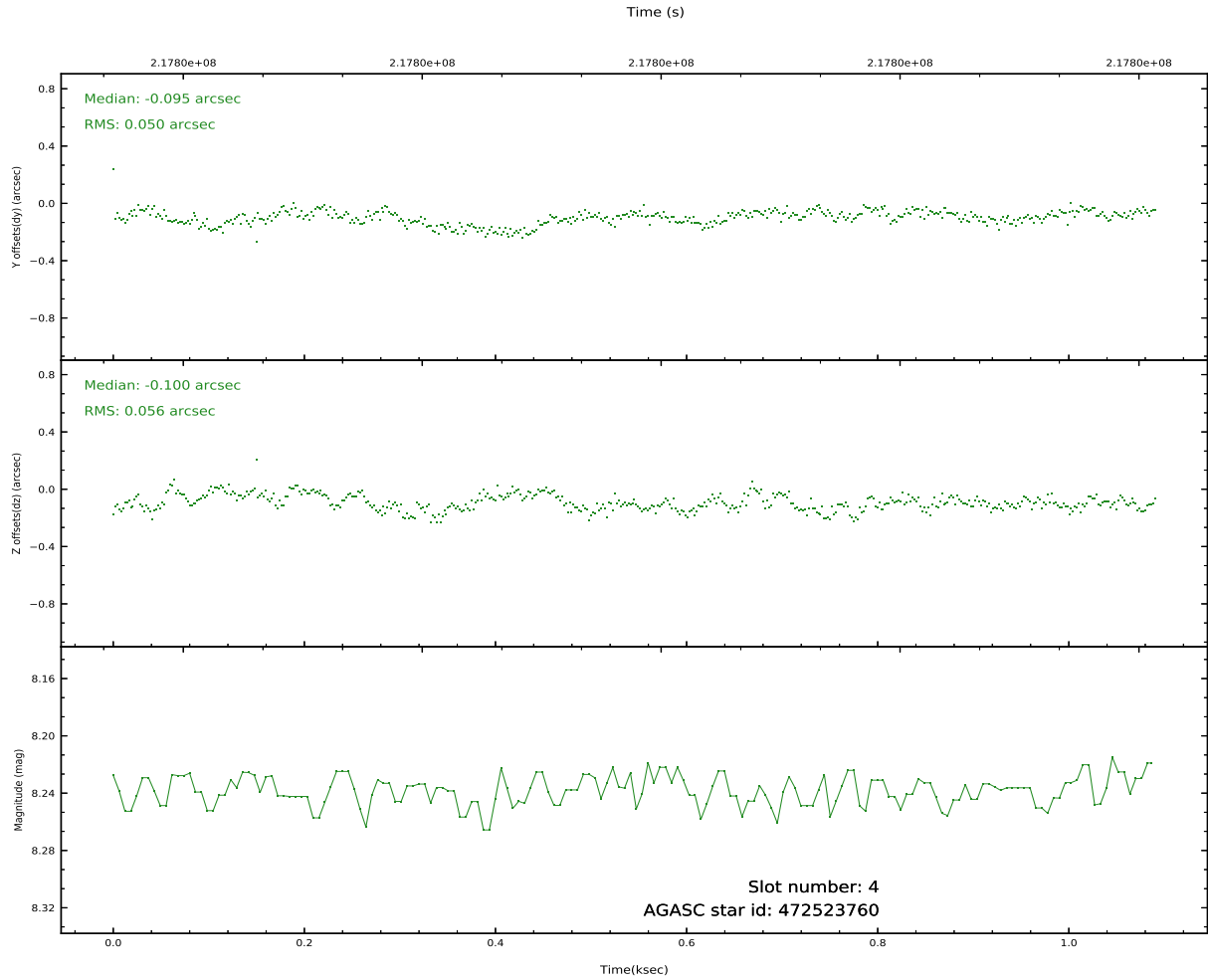
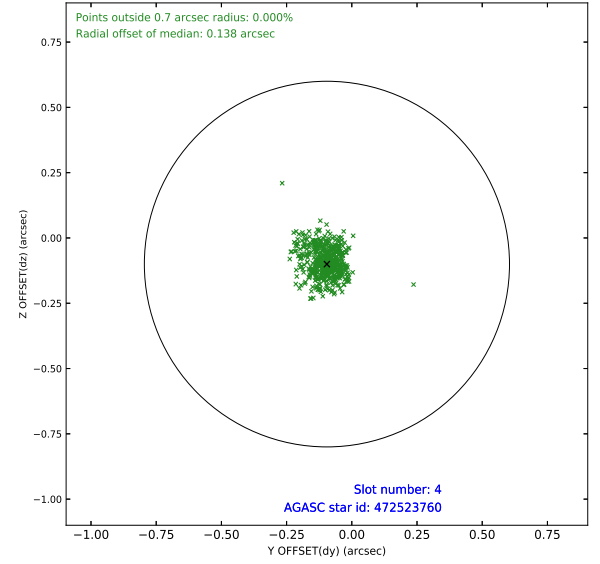
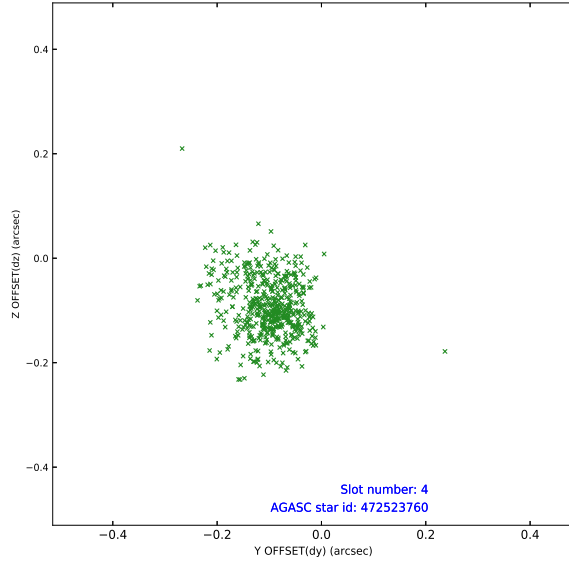
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.01	267	1.000	0.013	-0.039	0.009	0.016	0.000000	0.000000	-763.24	-1295
1	FID		HRC-I-3	7.10	267	1.000	-0.082	-0.043	0.008	0.016	0.000000	0.000000	-1194.60	1004
2	FID		HRC-I-4	7.04	267	1.000	0.183	-0.006	0.006	0.011	0.000000	0.000000	1275.33	1010
3	GUIDE	used	420754040	9.09	532	1.000	0.188	-0.110	0.108	0.179	331.917939	44.882543	2298.37	-1957
4	GUIDE	used	472523760	8.24	533	1.000	-0.095	-0.100	0.078	0.136	331.645363	45.403260	312.40	-2144
5	GUIDE	used	472654568	9.45	533	1.000	0.052	0.068	0.095	0.153	332.194449	45.063576	1849.40	-1114
6	GUIDE	used	472655152	9.43	533	1.000	-0.048	-0.000	0.110	0.186	332.504239	45.862991	-734.70	371
7	GUIDE	used	472659832	9.46	532	1.000	-0.095	0.134	0.096	0.167	332.780399	46.098139	-1387.33	1254

## 2.4 Star Slots

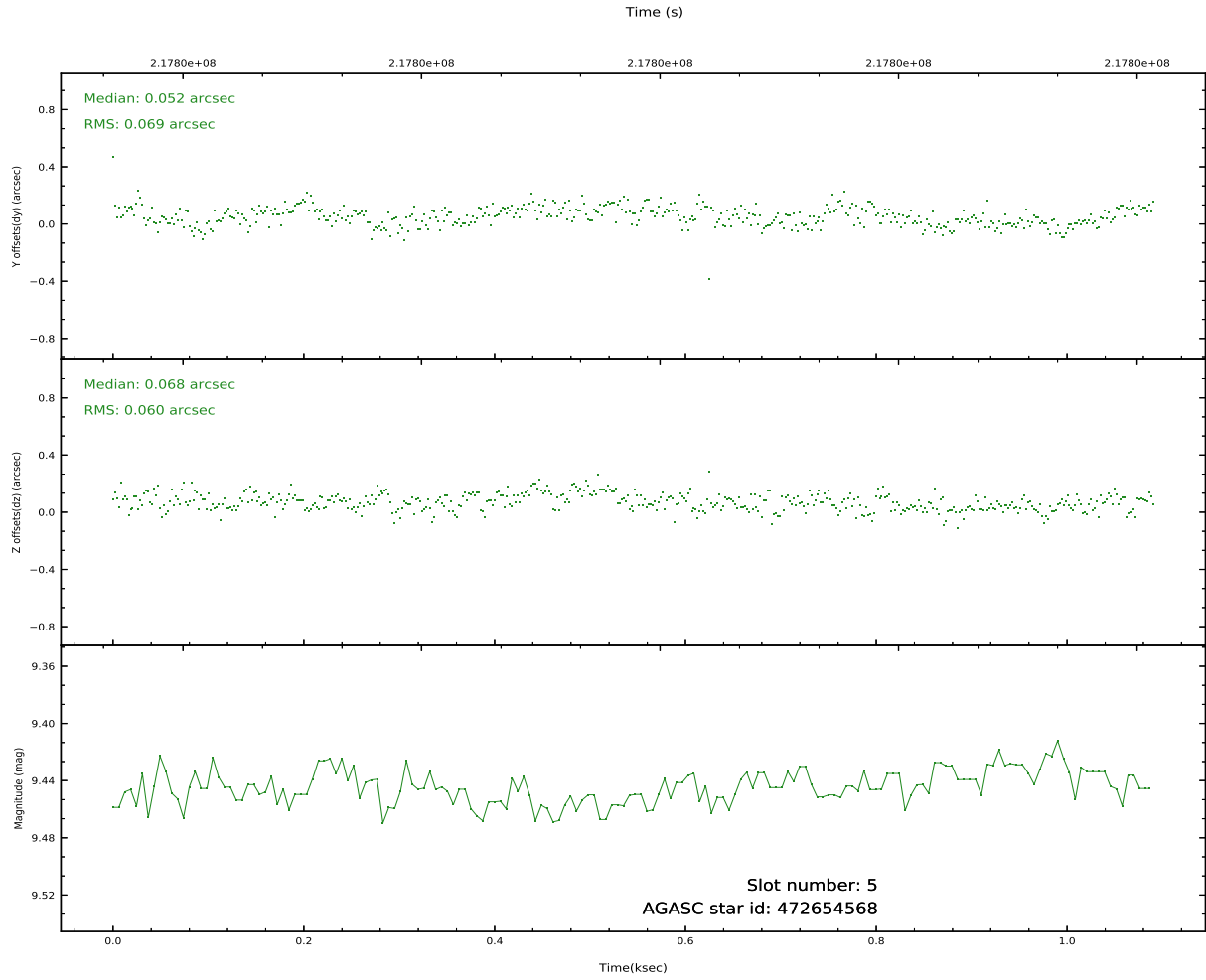
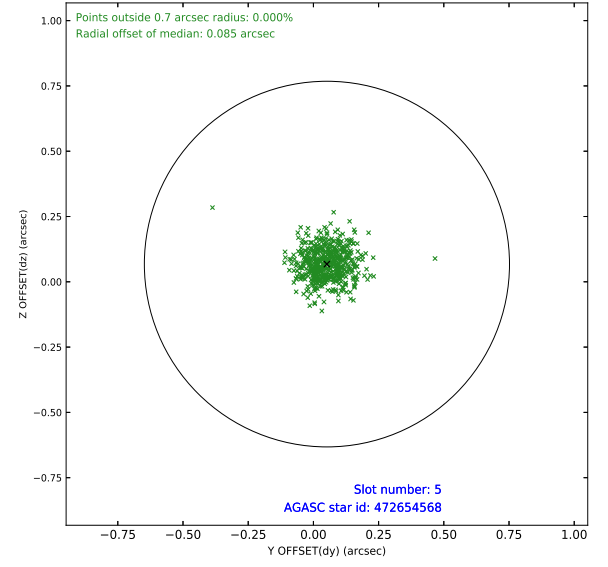
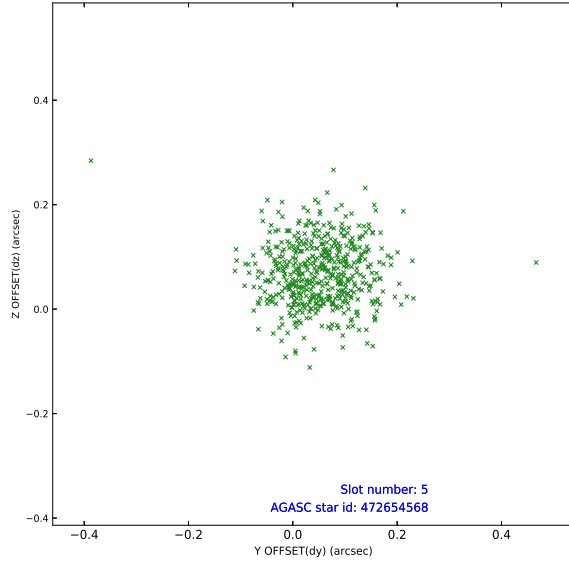
### 2.4.1 Slot 3



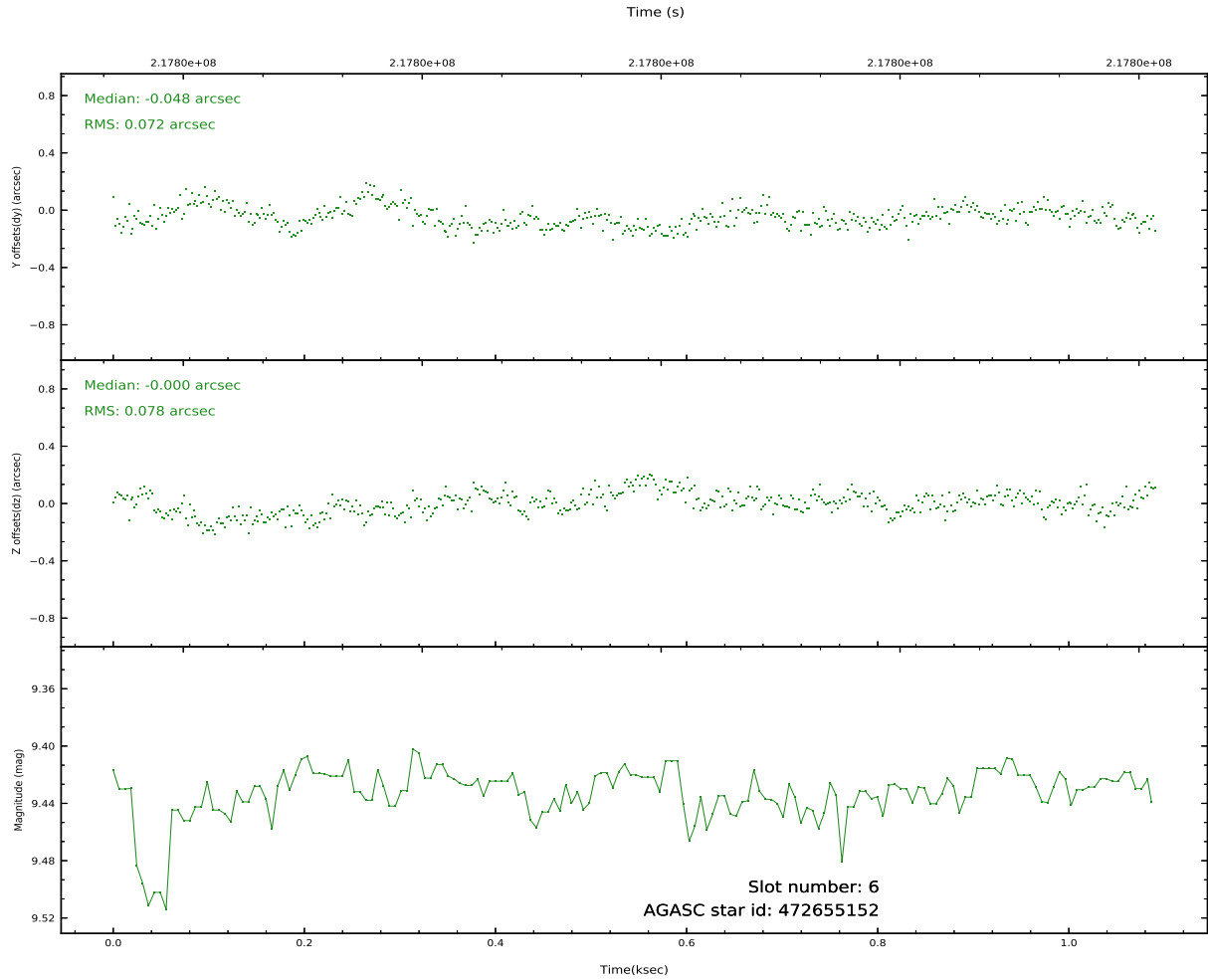
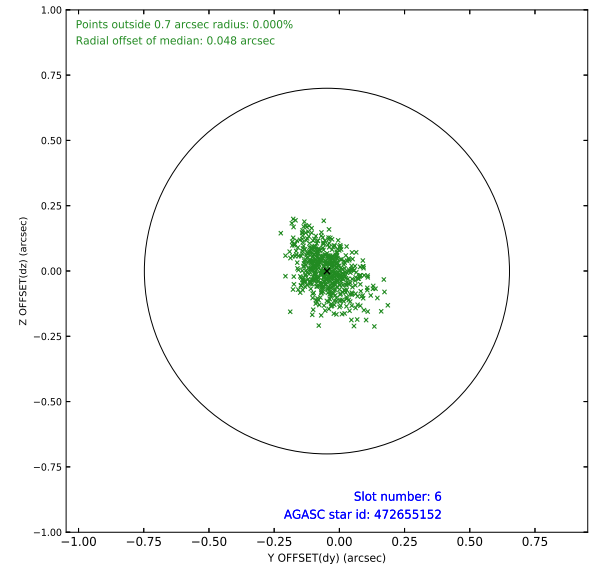
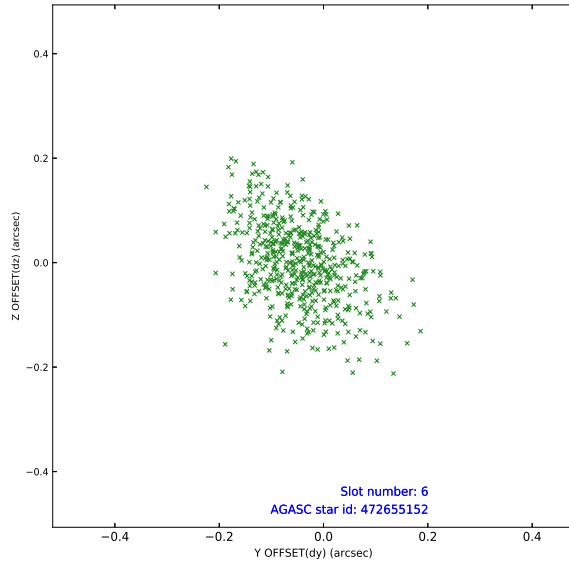
## 2.4.2 Slot 4



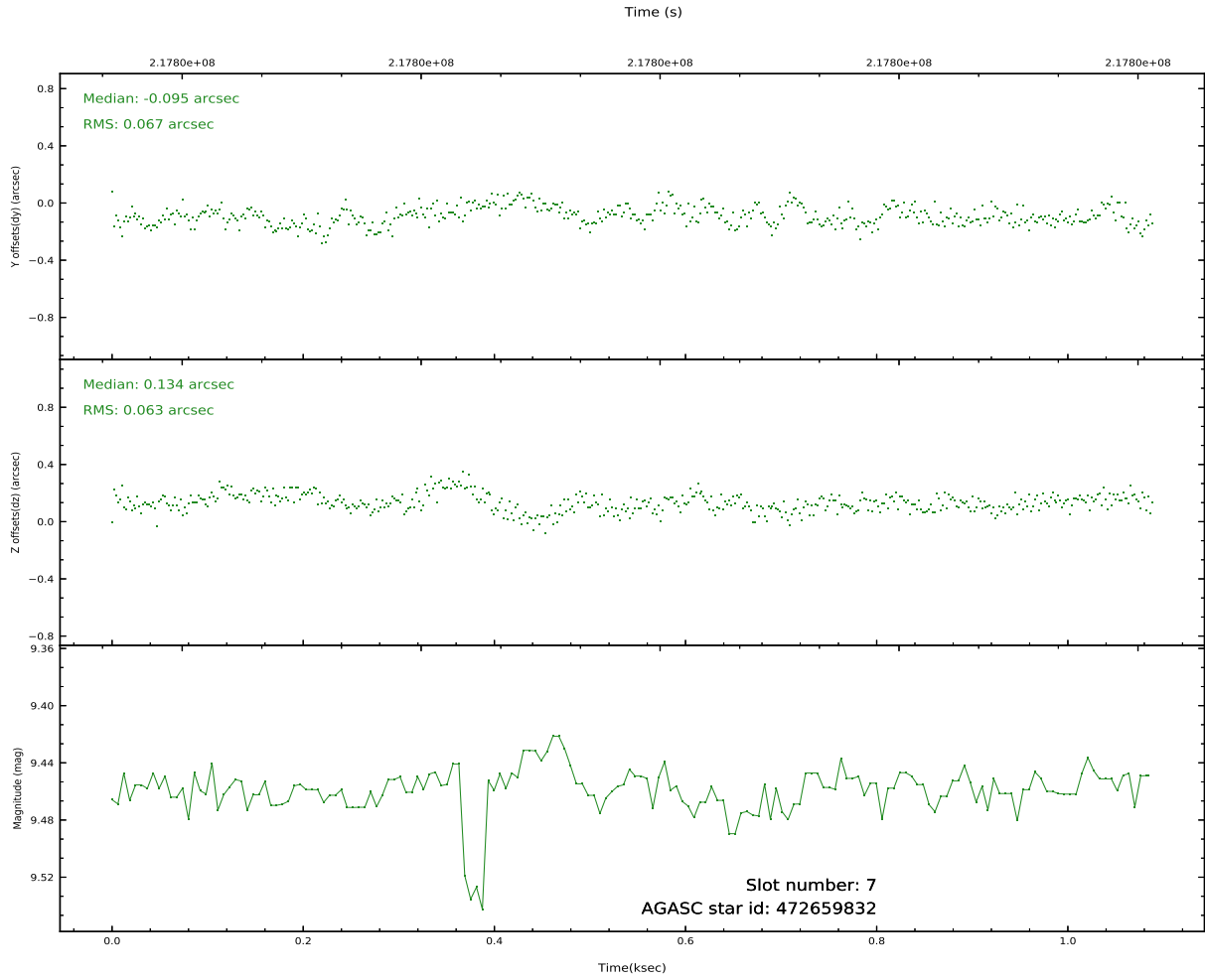
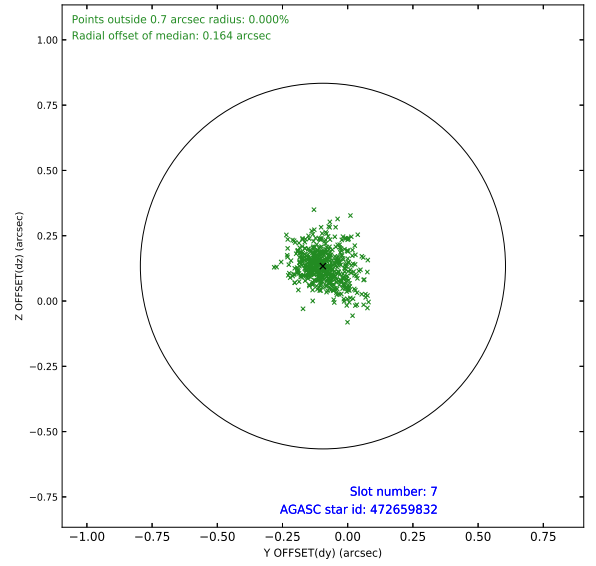
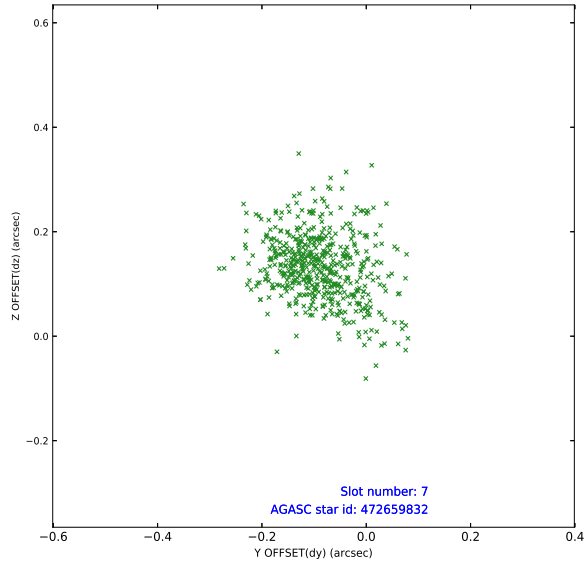
### 2.4.3 Slot 5



## 2.4.4 Slot 6

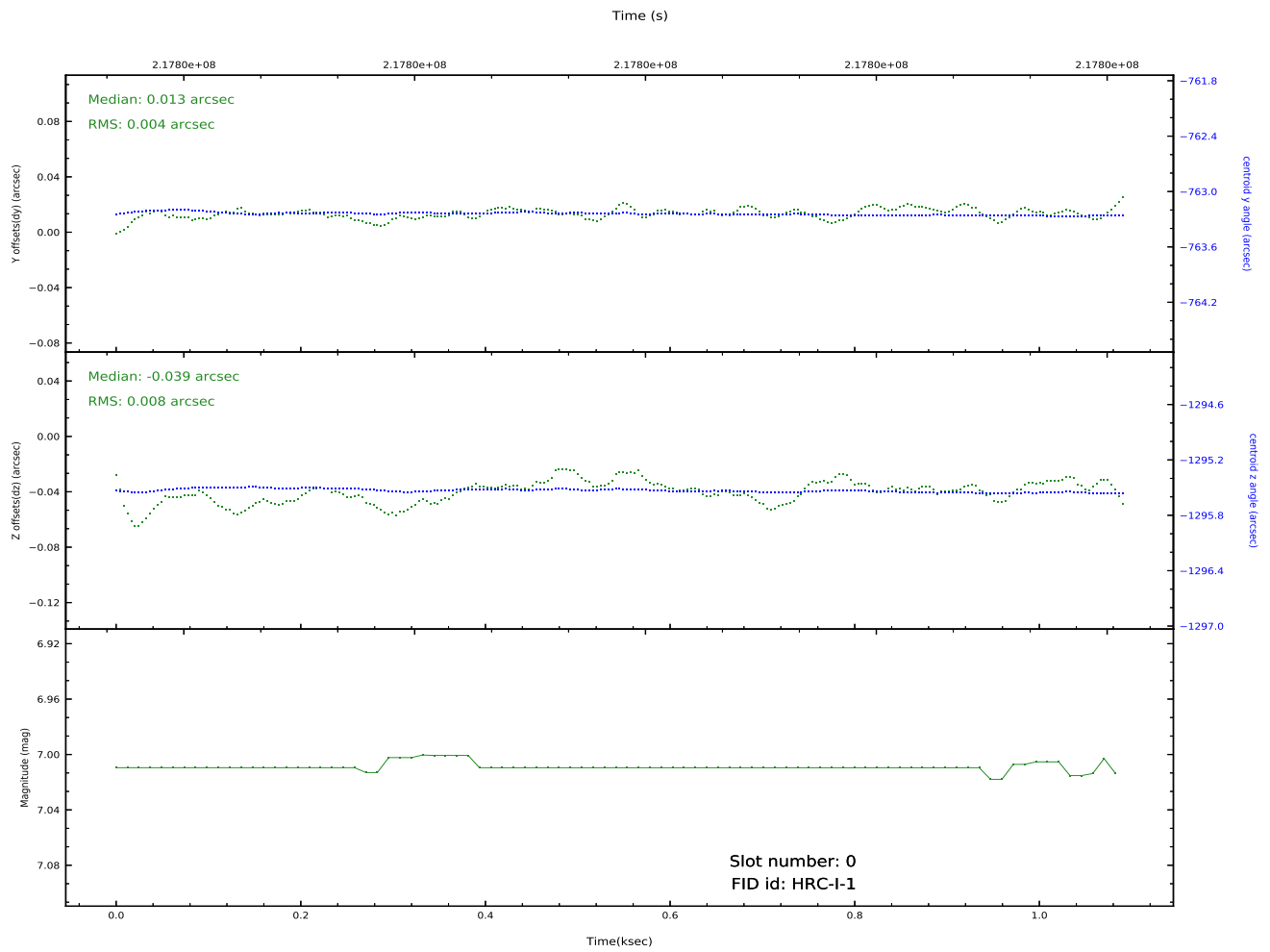
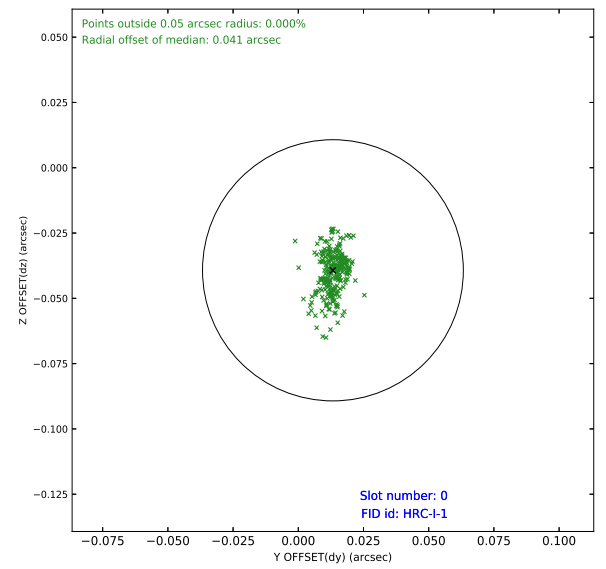
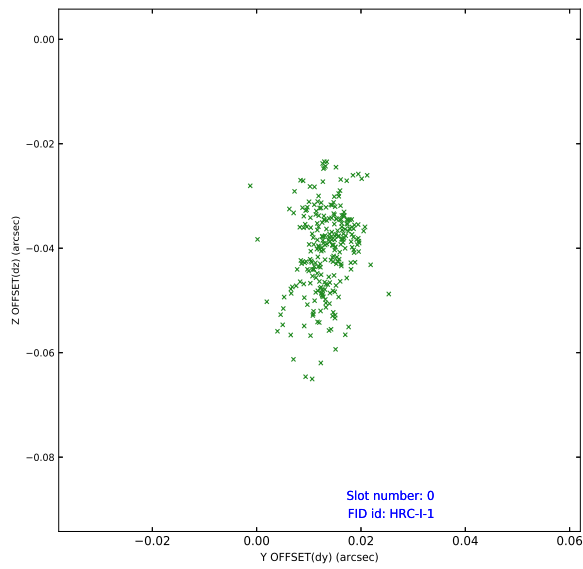


## 2.4.5 Slot 7

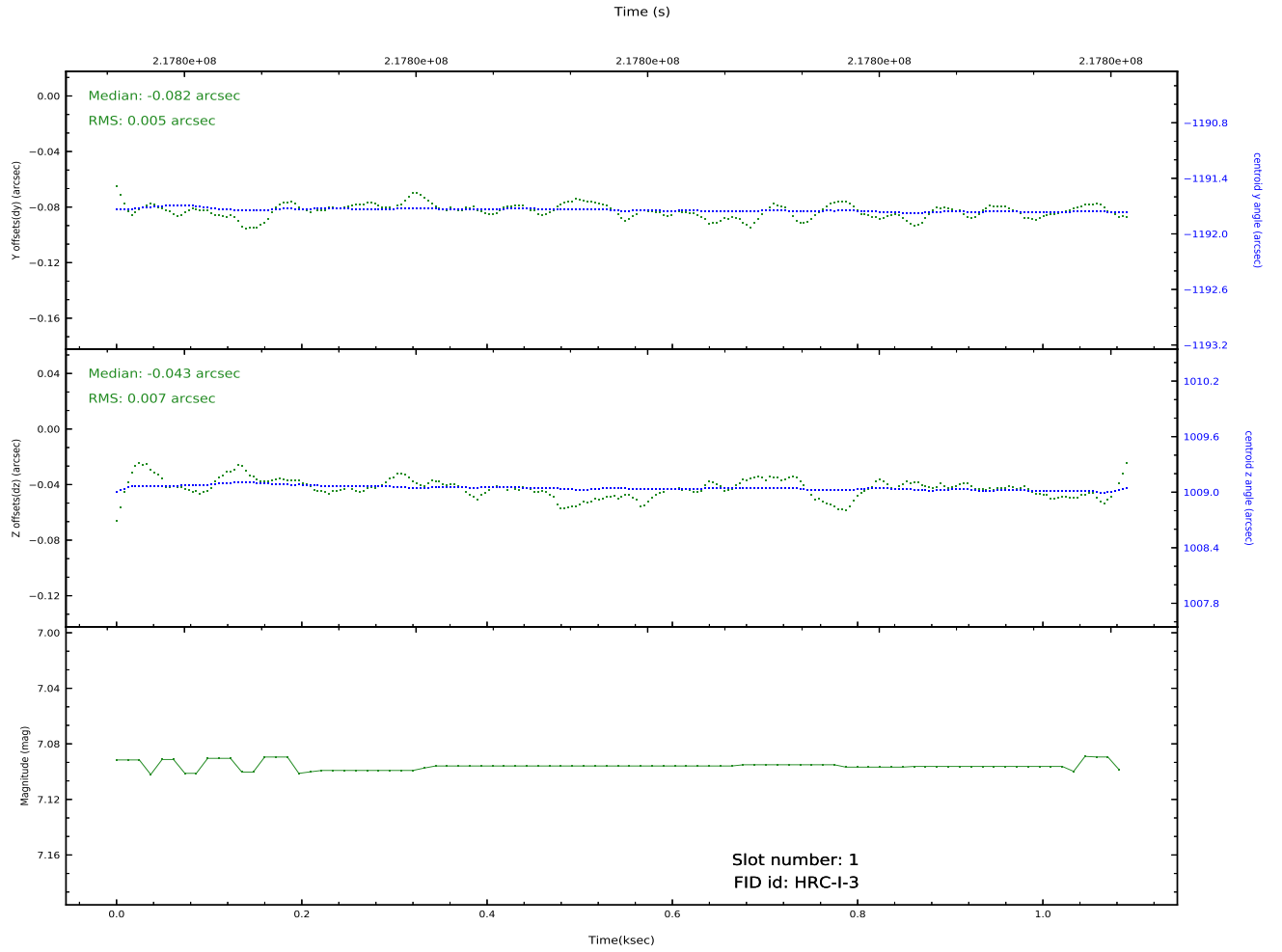
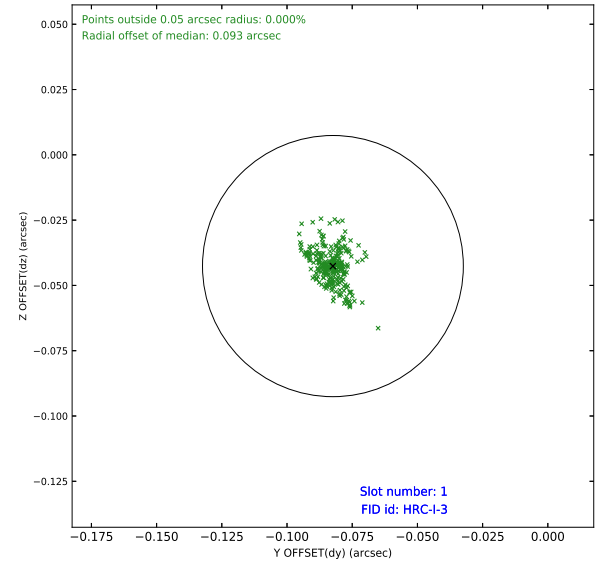
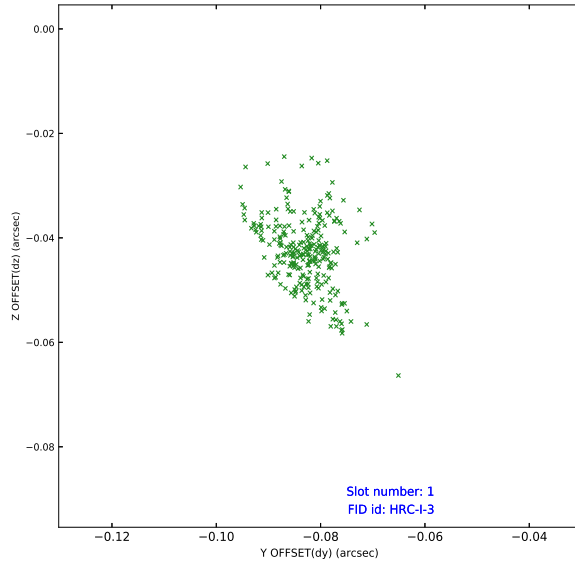


## 2.5 FID Slots

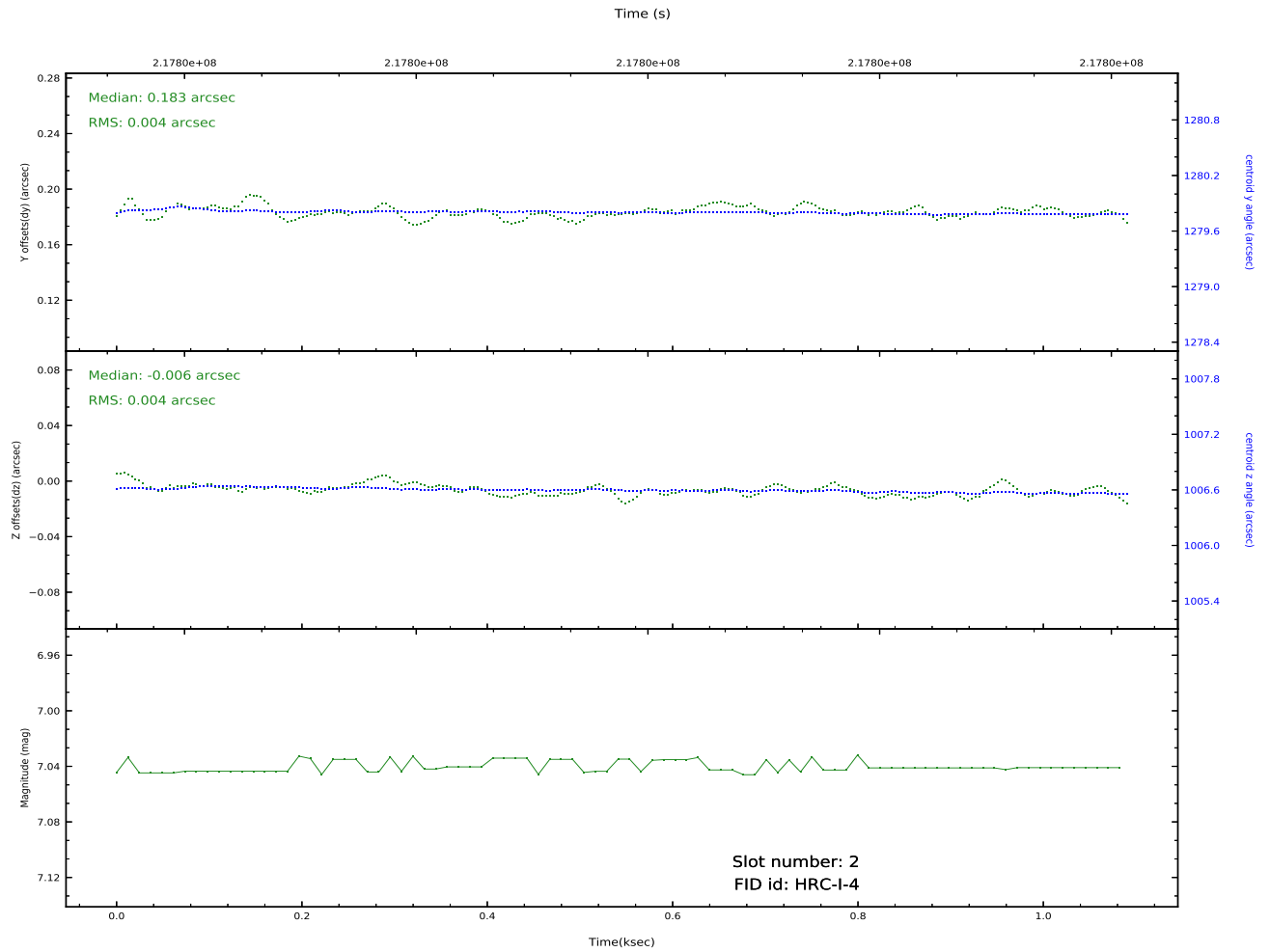
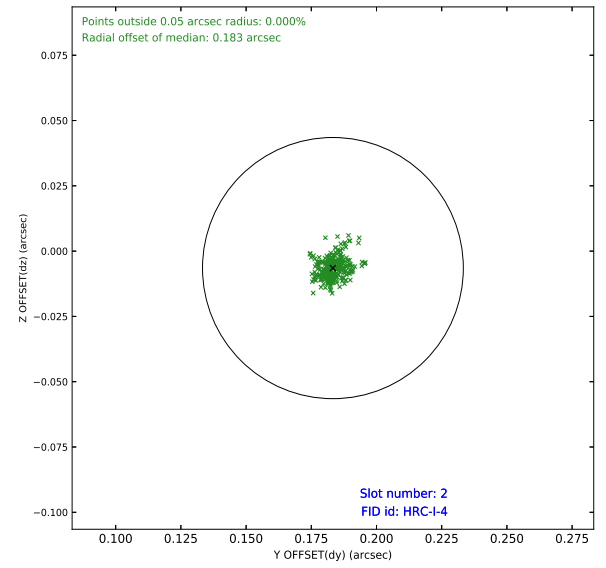
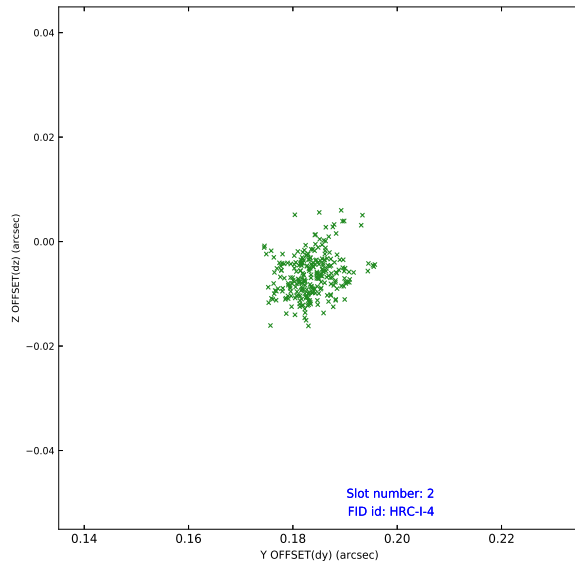
### 2.5.1 Slot 0



## 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	1.089831

### A.2 Comments