

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5080 - L2 Version 5  
Chandra X-Ray Center

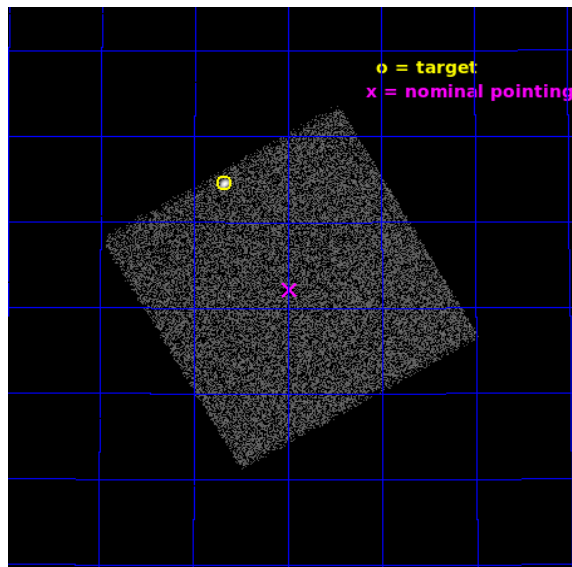
L2 Processing Date : Oct 5 2020

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# 1 Front

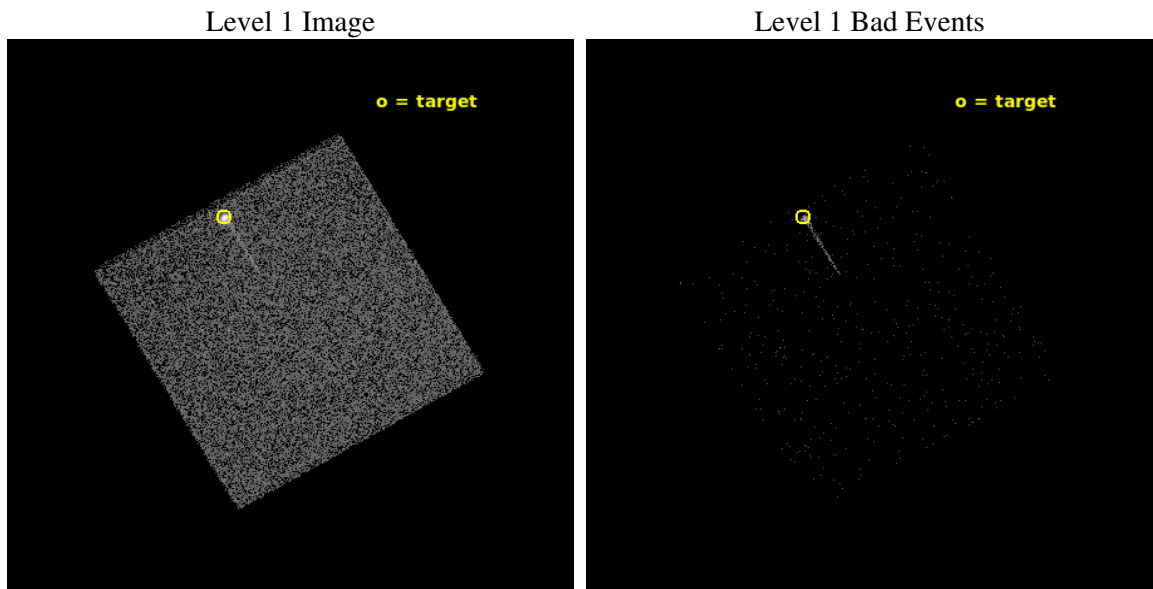
seq_num	290353	Sequence number
obs_id	5080	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.99445025131	Nominal RA [deg]
dec_nom	45.53573134378	Nominal Dec [deg]
roll_nom	284.82603953576	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1081.6312986314	[s]
livetime	1073.9422329026	Ontime multiplied by DTCOR
l2events	42163	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	1081.6312986314	[s]
caldsver	4.9.2	&#160	l1events	80345	Number of level 1 events
date	2020-10-05T06:53:16	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

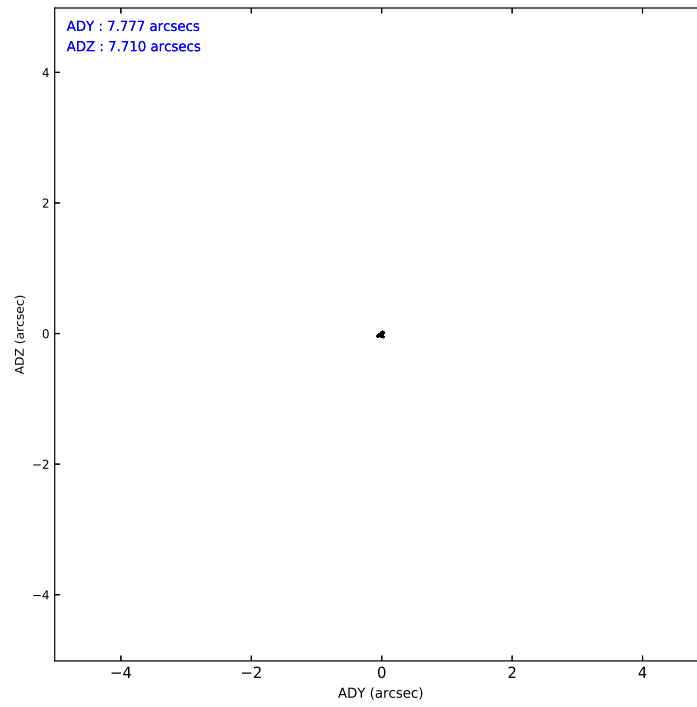
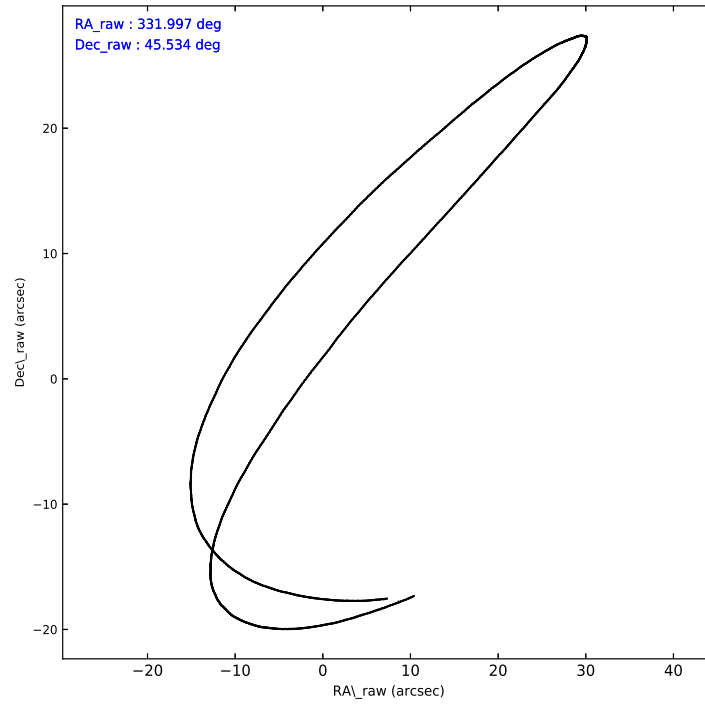
	<b>segment 0</b>
level 1 events	80345
rejected events	18667
rejected %	23%

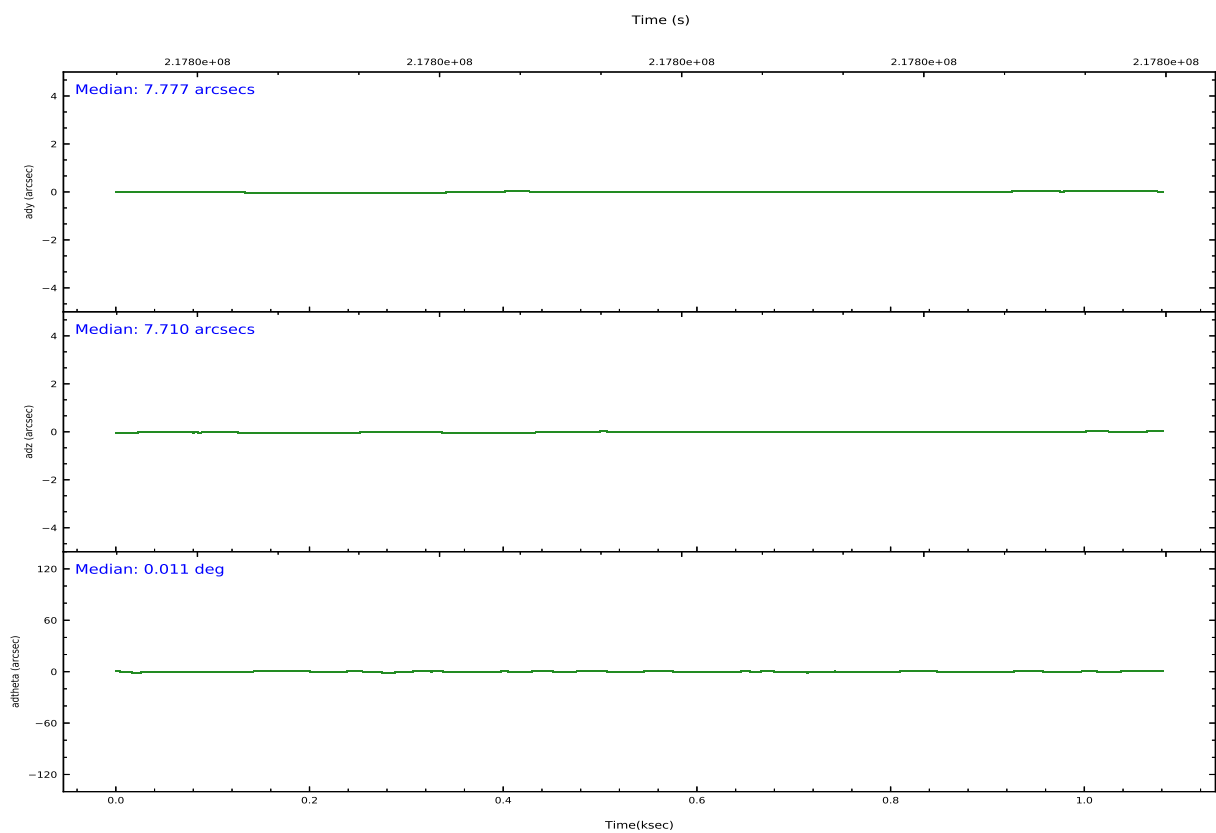
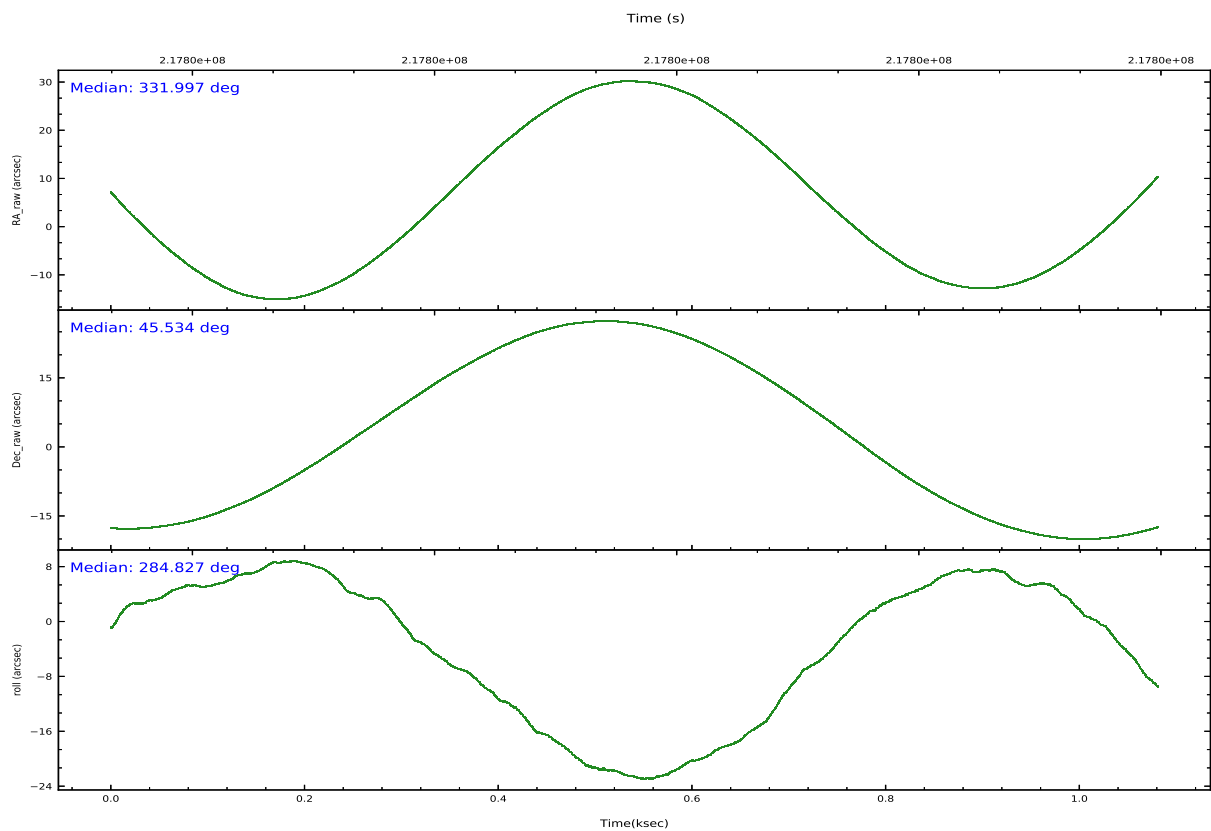
## 2.2 Compared Parameters

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	331.972066	331.99445025131
[deg] Pointing Dec	45.553074	45.53573134378
[deg] Pointing Roll	284.955004	284.82603953576
[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)	217802847.184000	217802471.60897
Observation start date	2004-11-25T20:46:23	2004-11-25T20:41:11
[s] Observation end time (MET)	217803747.184000	217803880.98404
Observation end date	2004-11-25T21:01:23	2004-11-25T21:04:40

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

## 2.3 Aspect





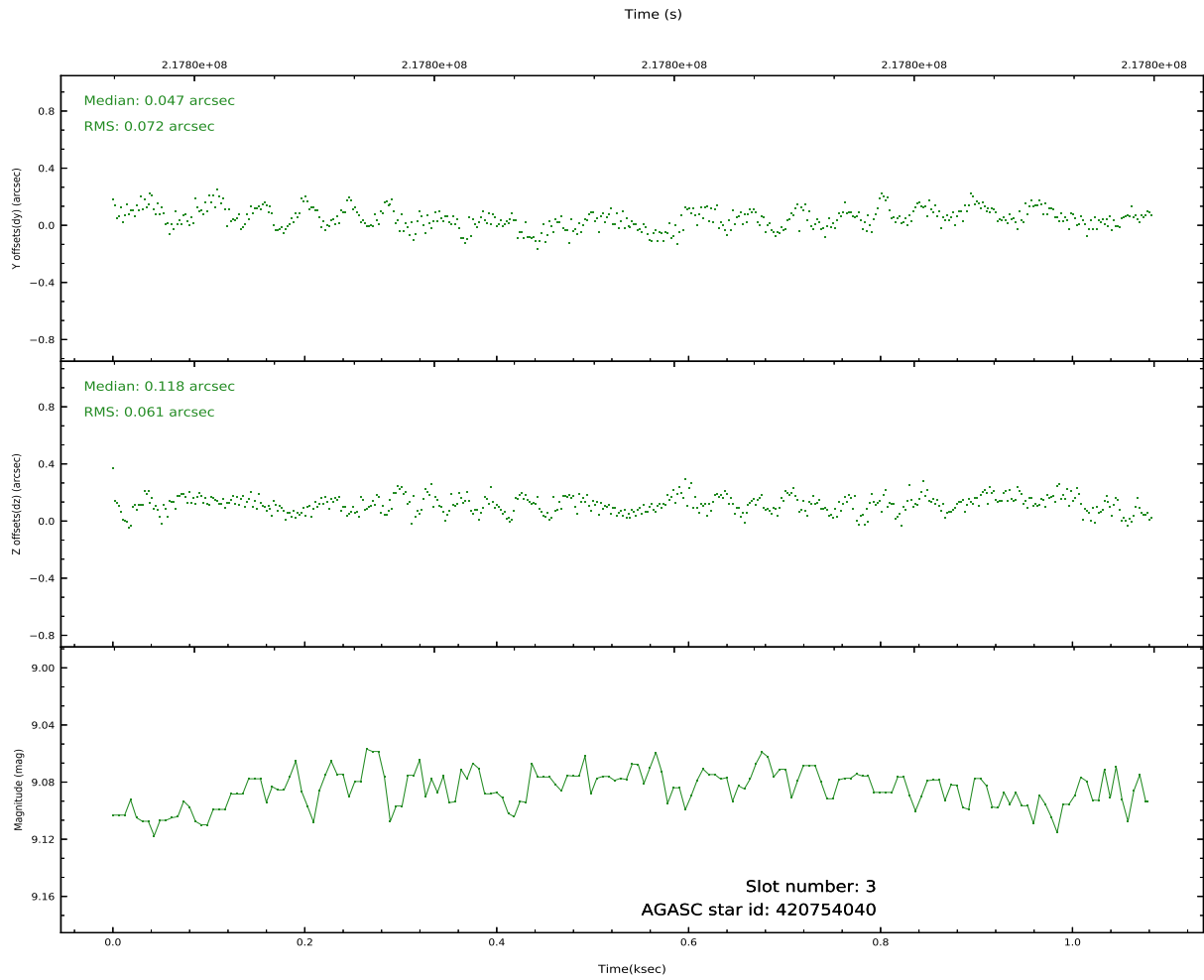
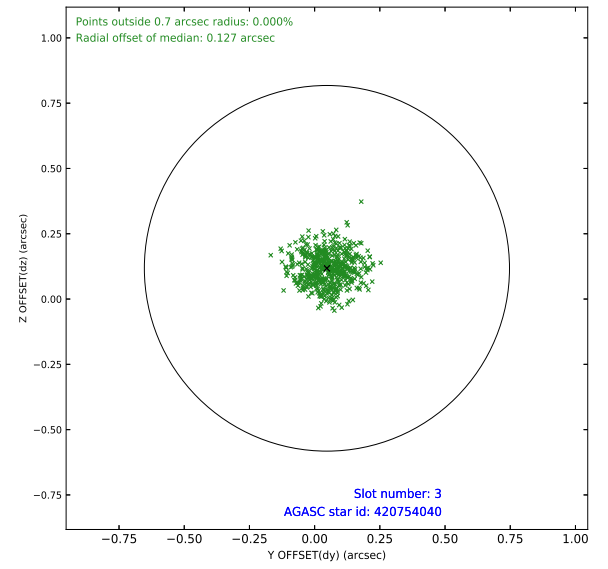
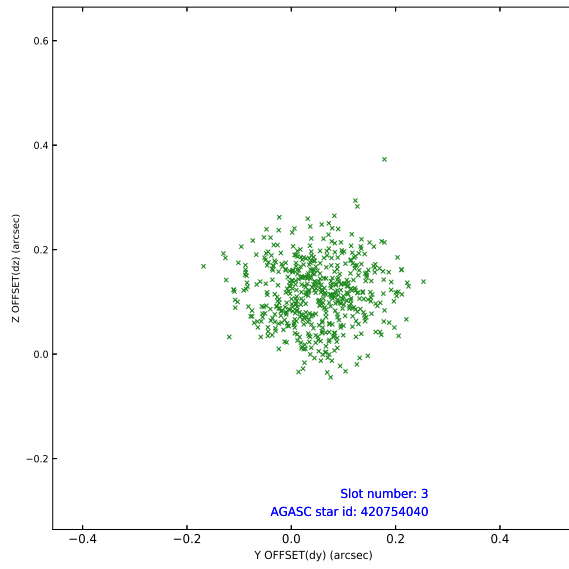
Slot Statistics

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	7.00	264	1.000	0.016	-0.034	0.007	0.011	0.000000	0.000000	-763.41	-1295
1	FID		HRC-I-3	7.09	264	1.000	-0.081	-0.046	0.007	0.014	0.000000	0.000000	-1194.80	1004
2	FID		HRC-I-4	7.04	264	1.000	0.179	-0.009	0.006	0.008	0.000000	0.000000	1275.10	1010
3	GUIDE	used	420754040	9.09	529	1.000	0.047	0.118	0.103	0.158	331.917939	44.882543	2297.14	-751
4	GUIDE	used	472523760	8.23	529	1.000	-0.034	-0.127	0.057	0.090	331.645363	45.403260	311.32	-933
5	GUIDE	used	472527720	7.01	529	1.000	-0.009	-0.057	0.079	0.124	331.460205	45.112509	1194.07	-1662
6	GUIDE	used	472654568	9.44	529	1.000	0.089	-0.104	0.091	0.147	332.194449	45.063576	1850.70	92
7	GUIDE	used	472655152	9.43	522	1.000	-0.092	0.168	0.128	0.202	332.504239	45.862991	-733.87	1582

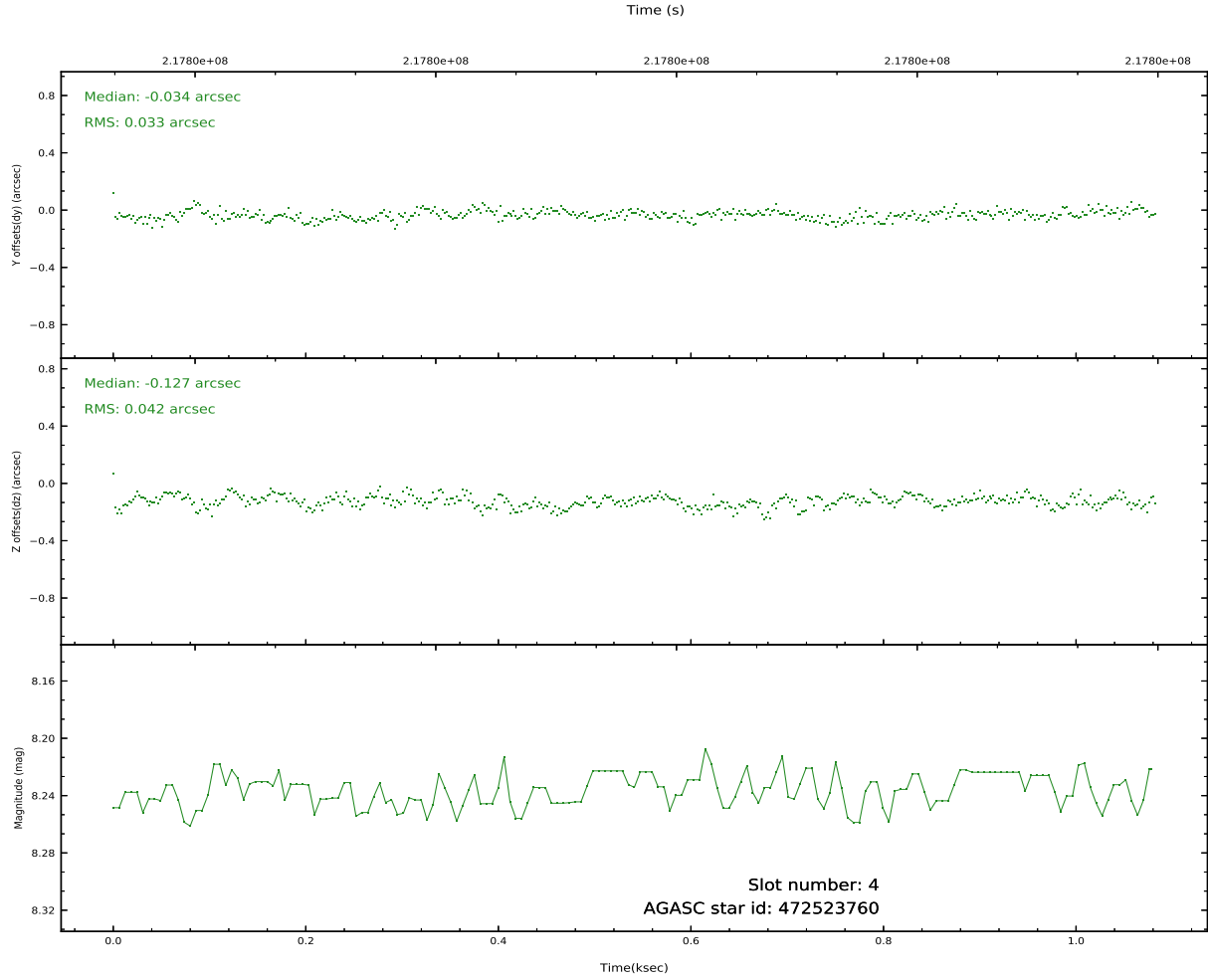
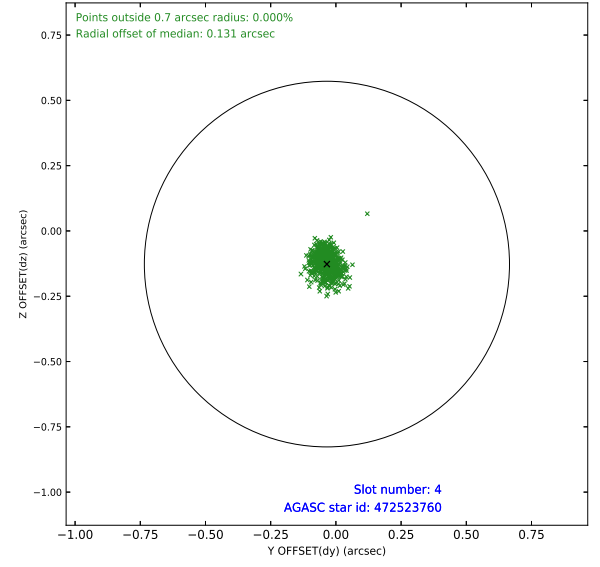
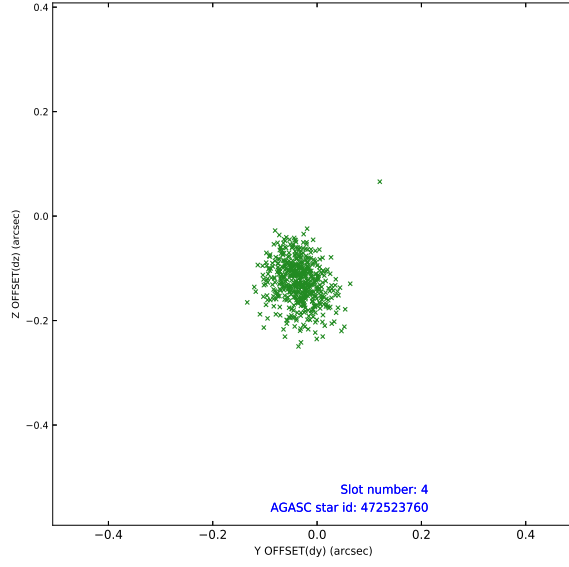


## 2.4 Star Slots

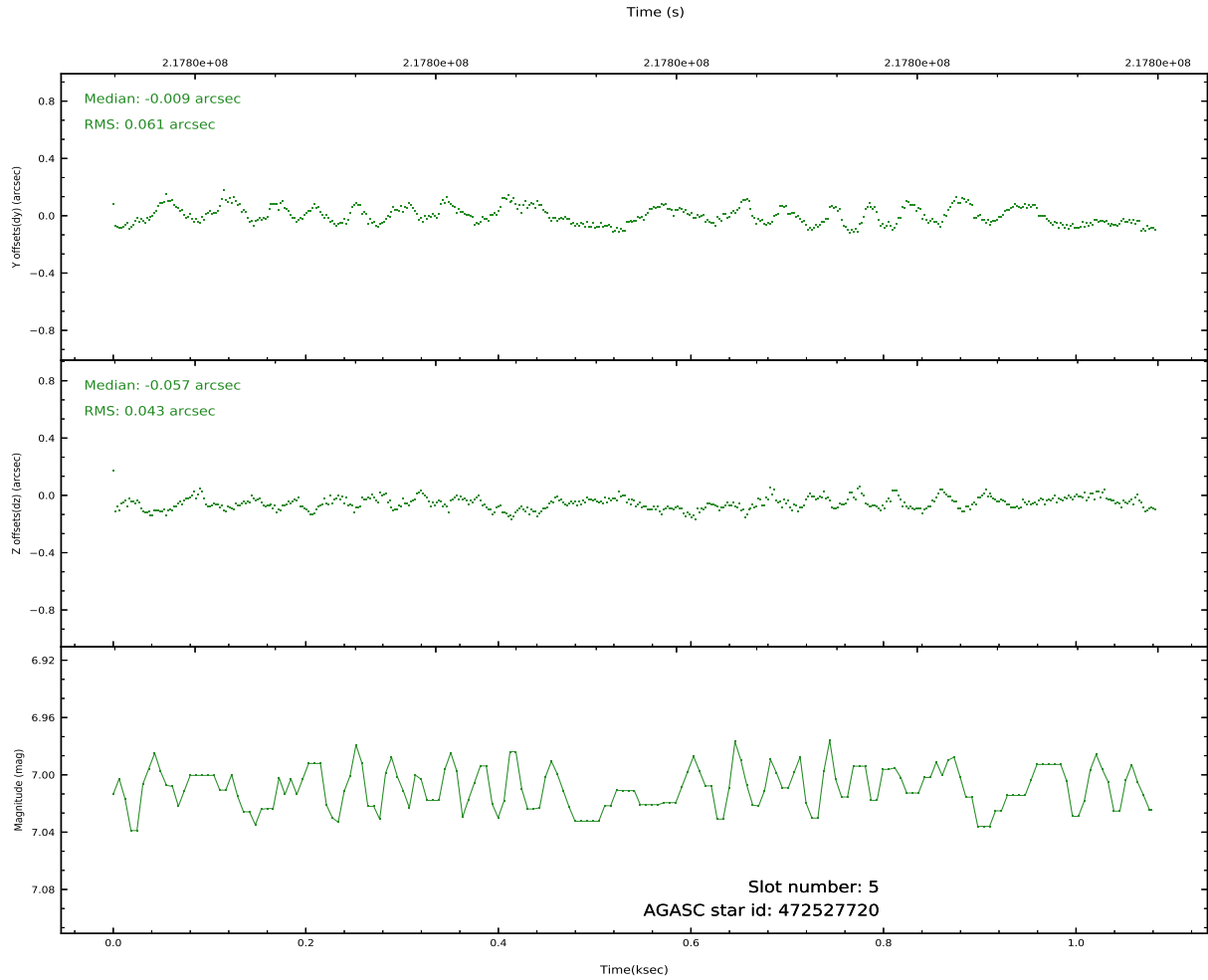
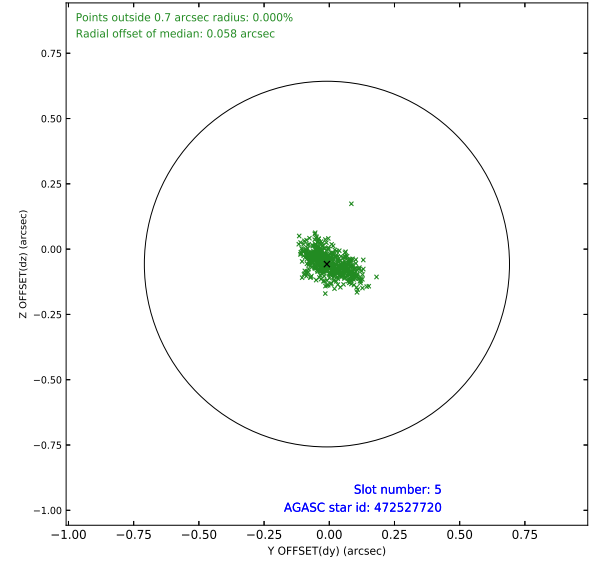
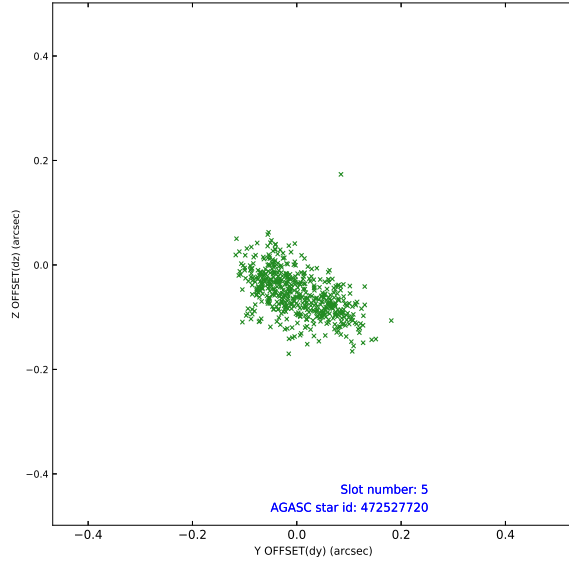
### 2.4.1 Slot 3



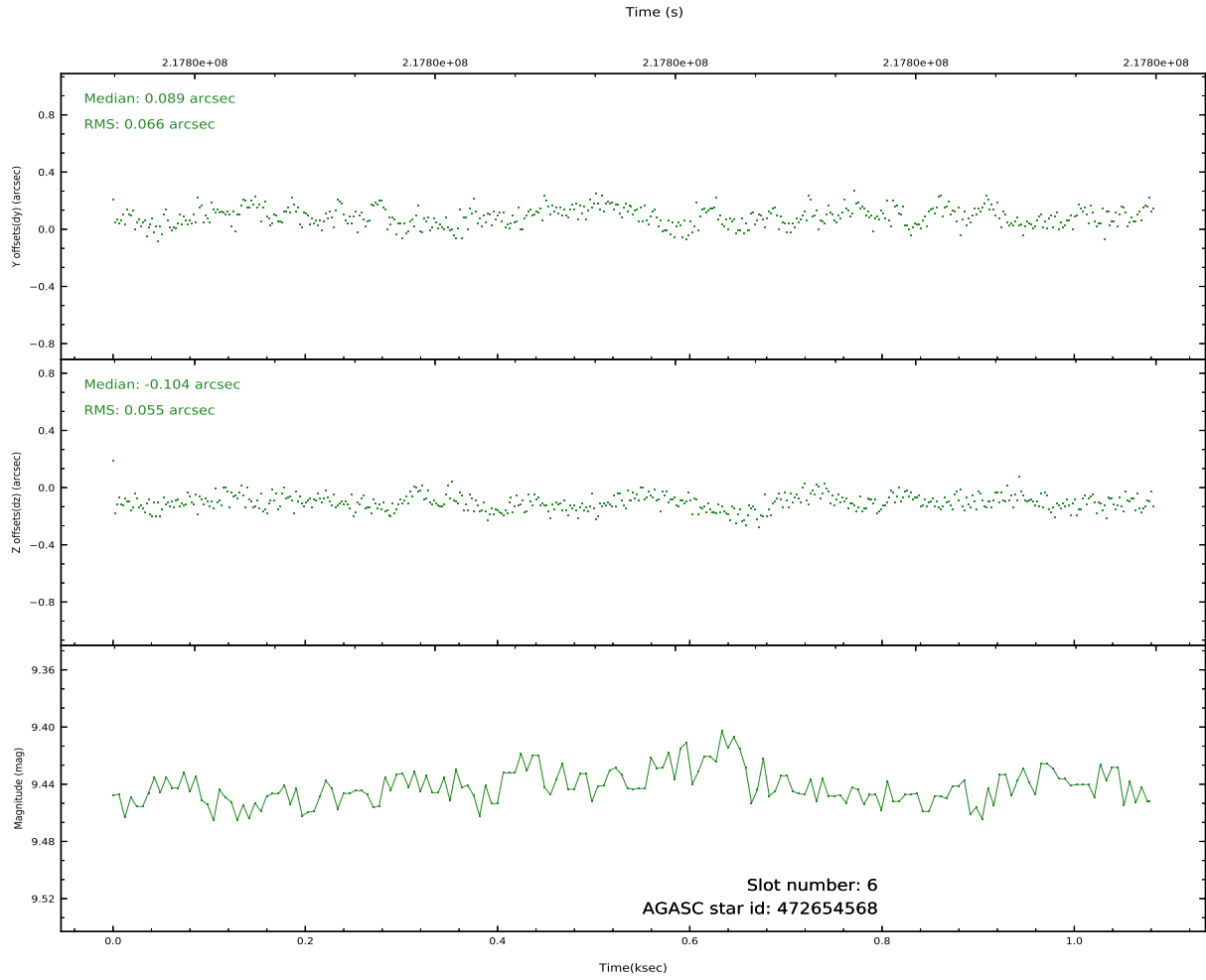
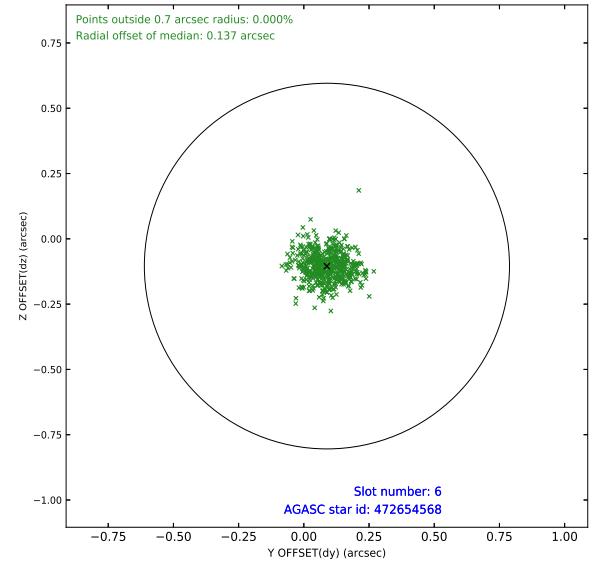
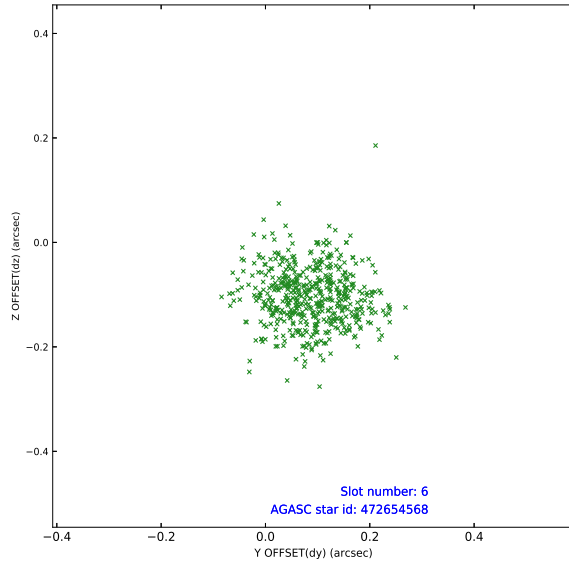
## 2.4.2 Slot 4



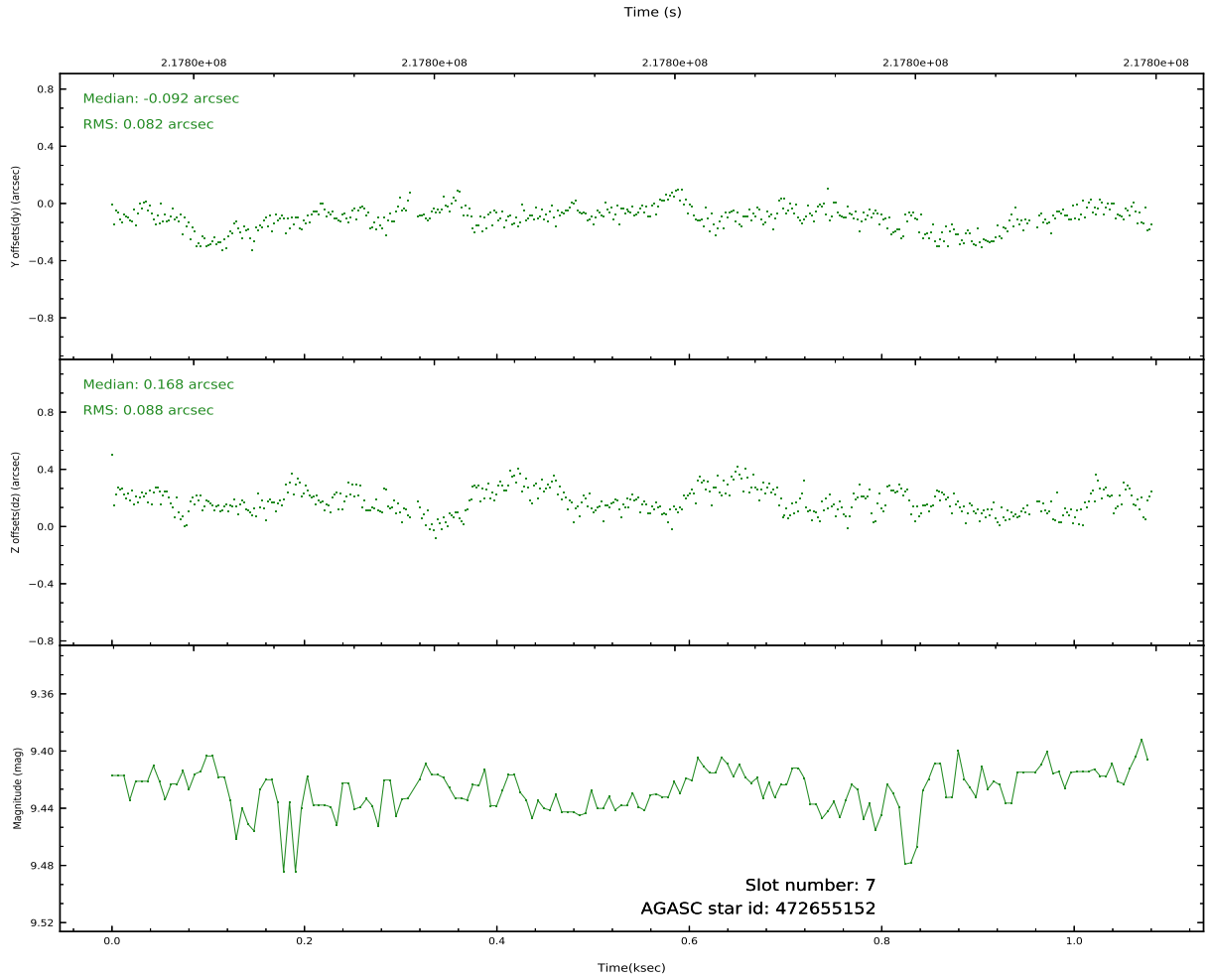
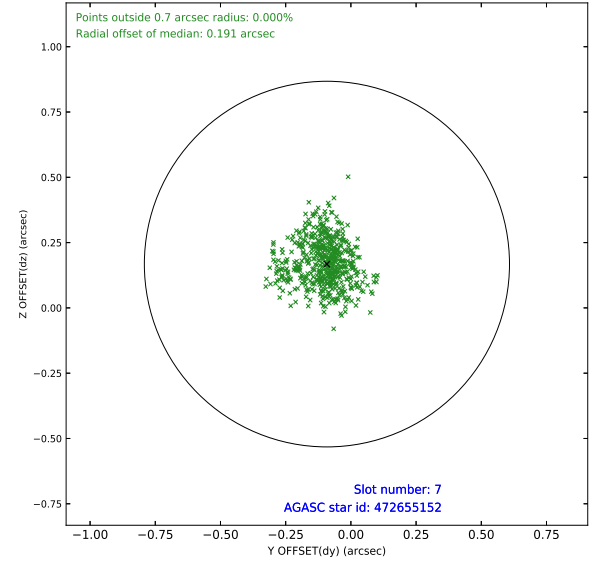
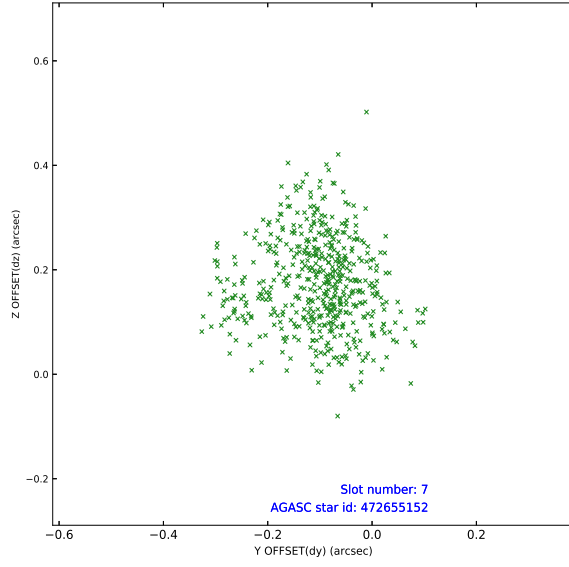
### 2.4.3 Slot 5



## 2.4.4 Slot 6

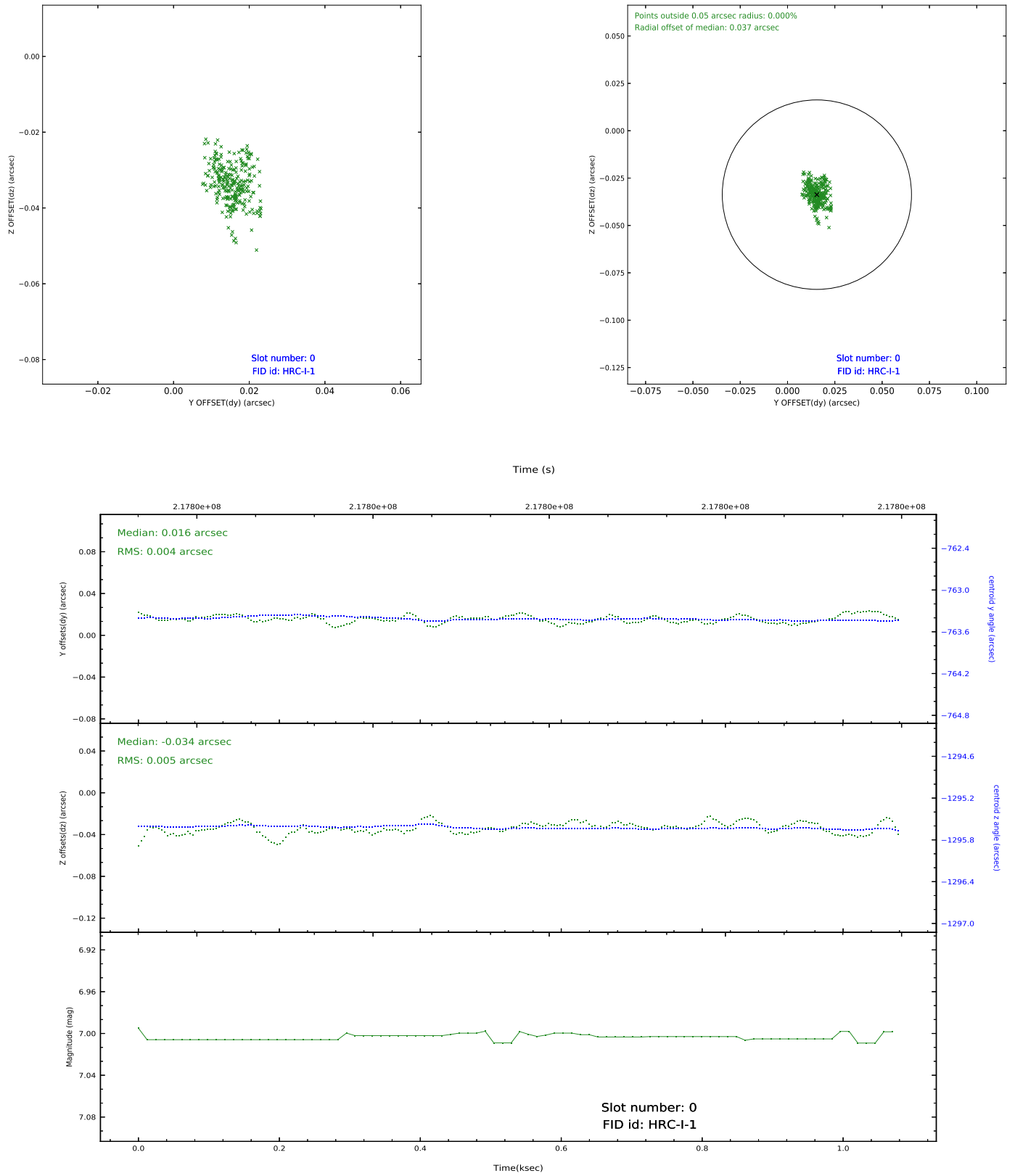


## 2.4.5 Slot 7

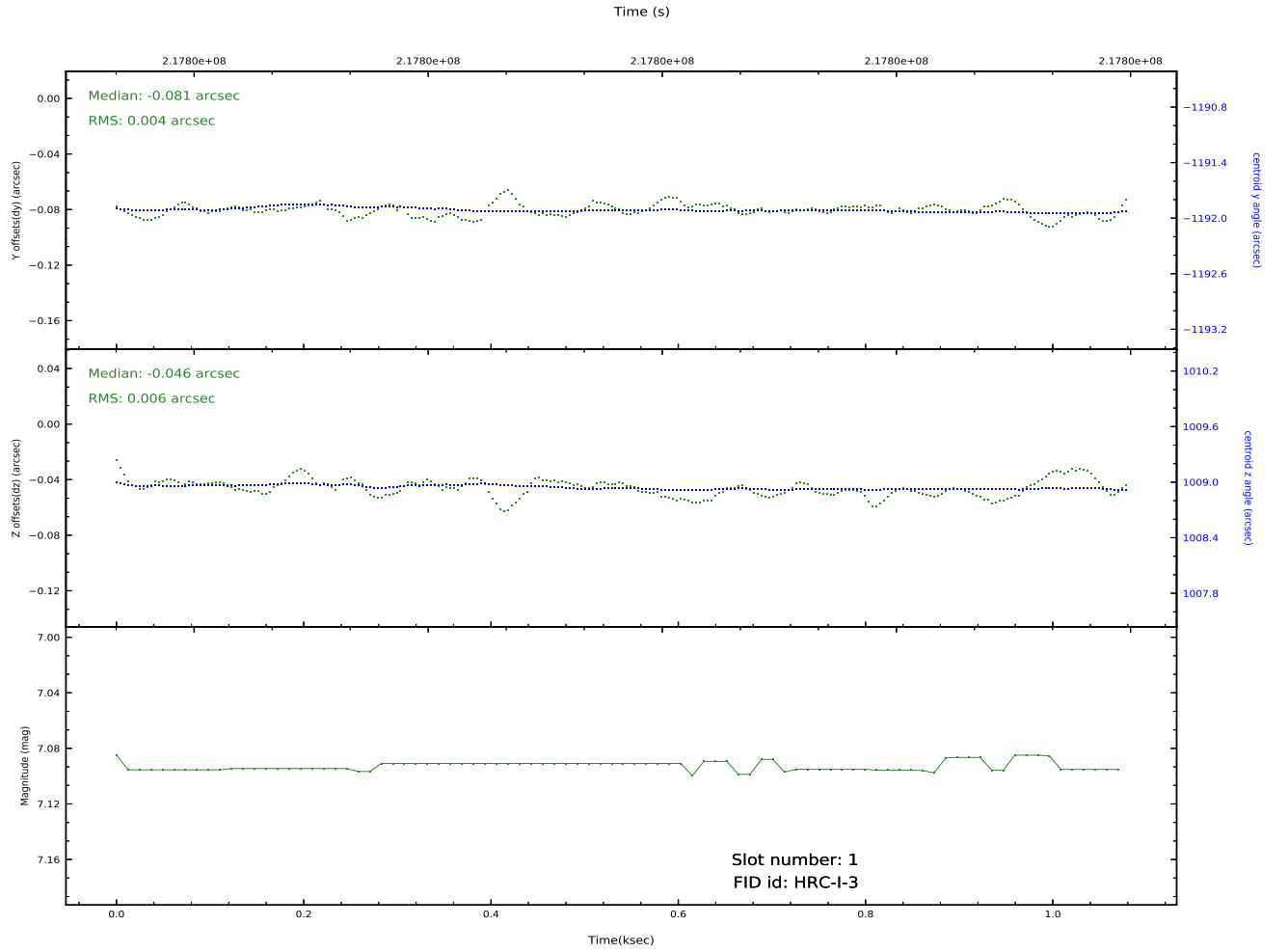
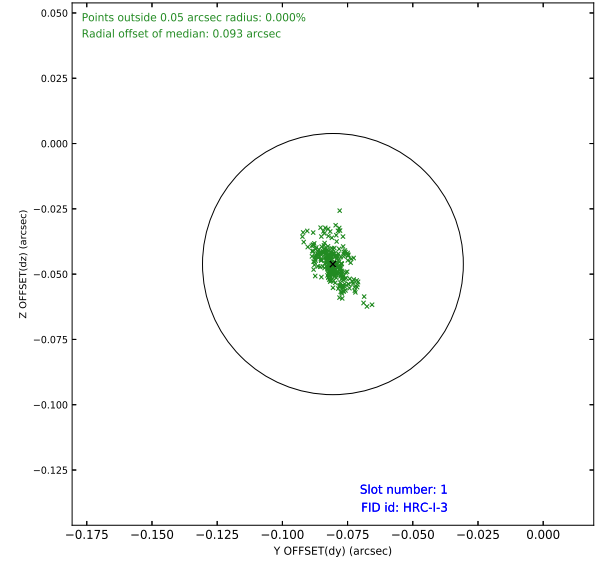
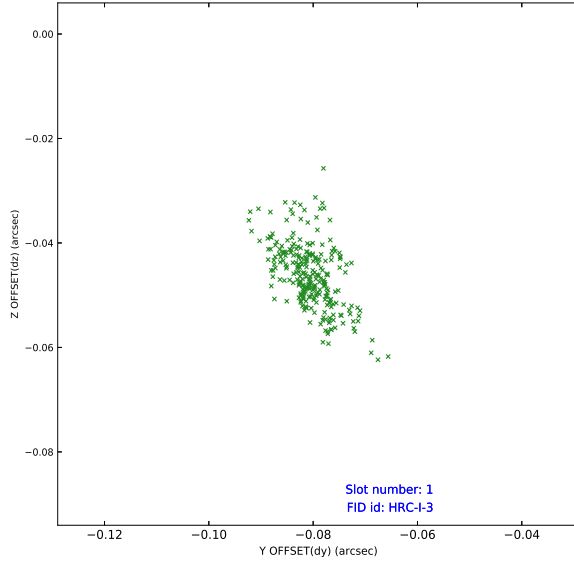


## 2.5 FID Slots

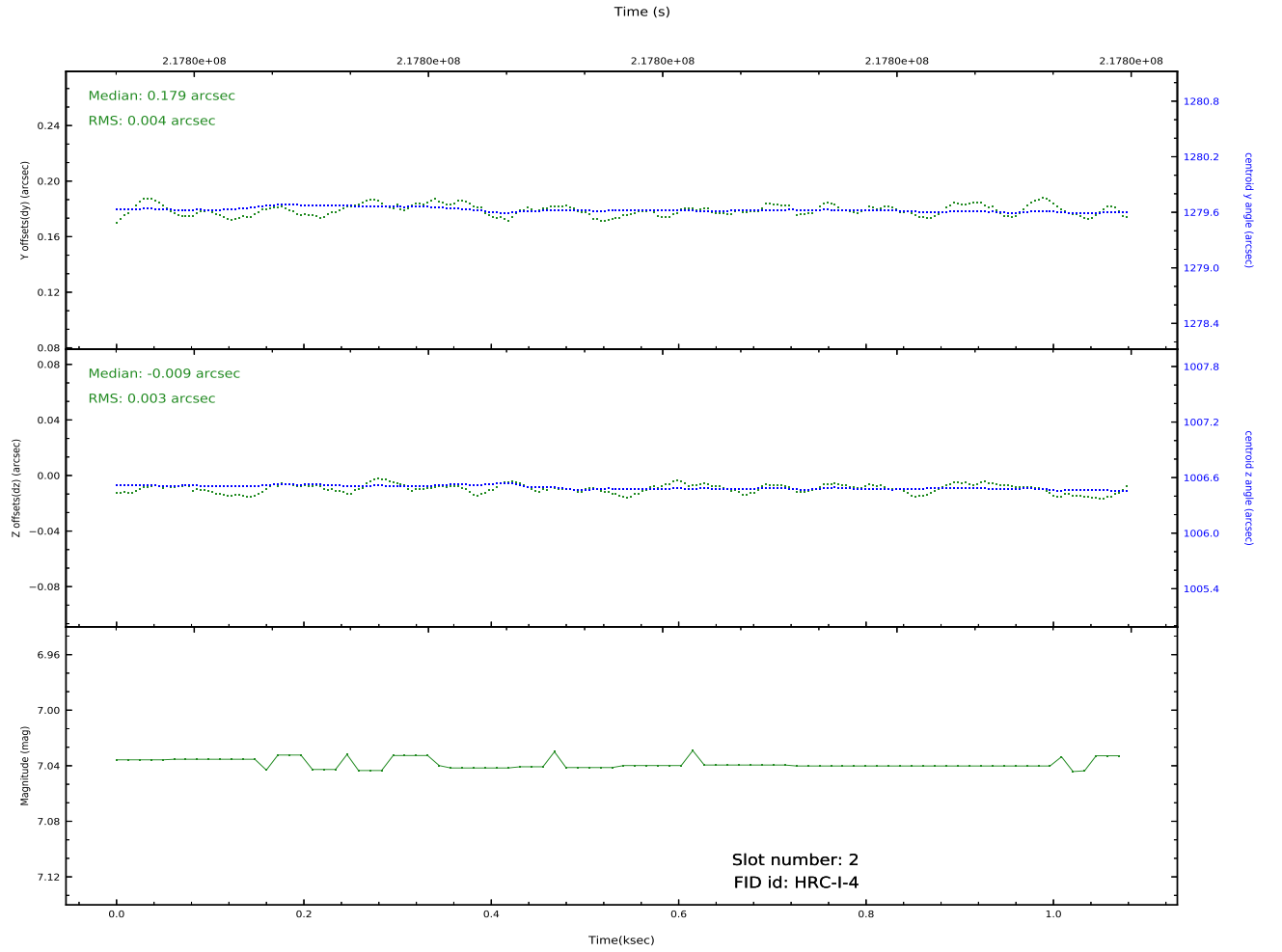
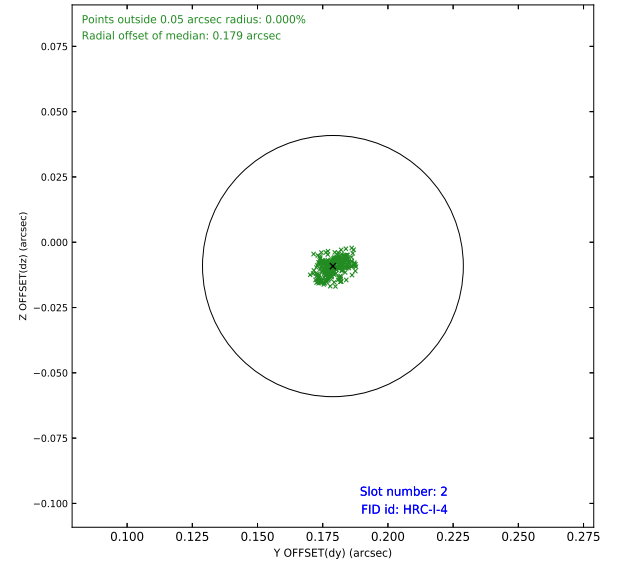
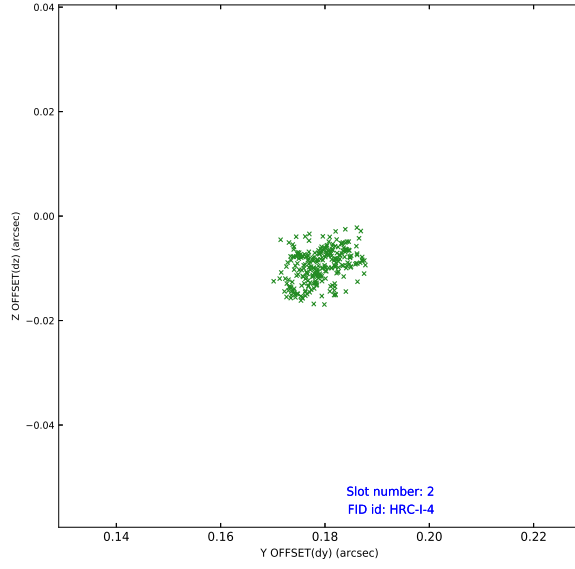
### 2.5.1 Slot 0



## 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	1.081631

### A.2 Comments