

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5071 - L2 Version 5  
Chandra X-Ray Center

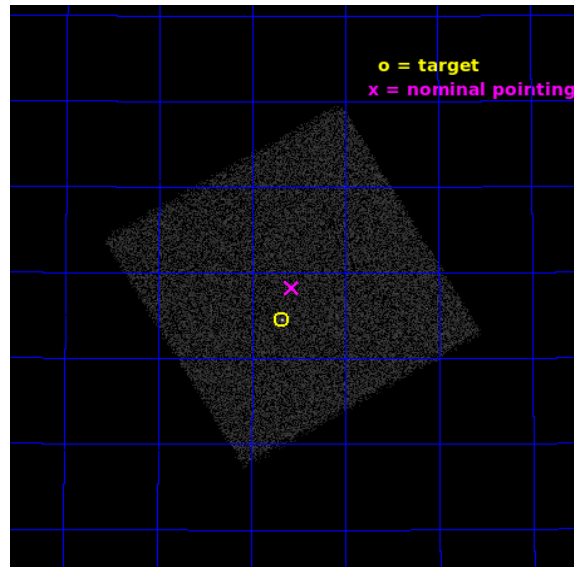
L2 Processing Date : Oct 5 2020

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# 1 Front

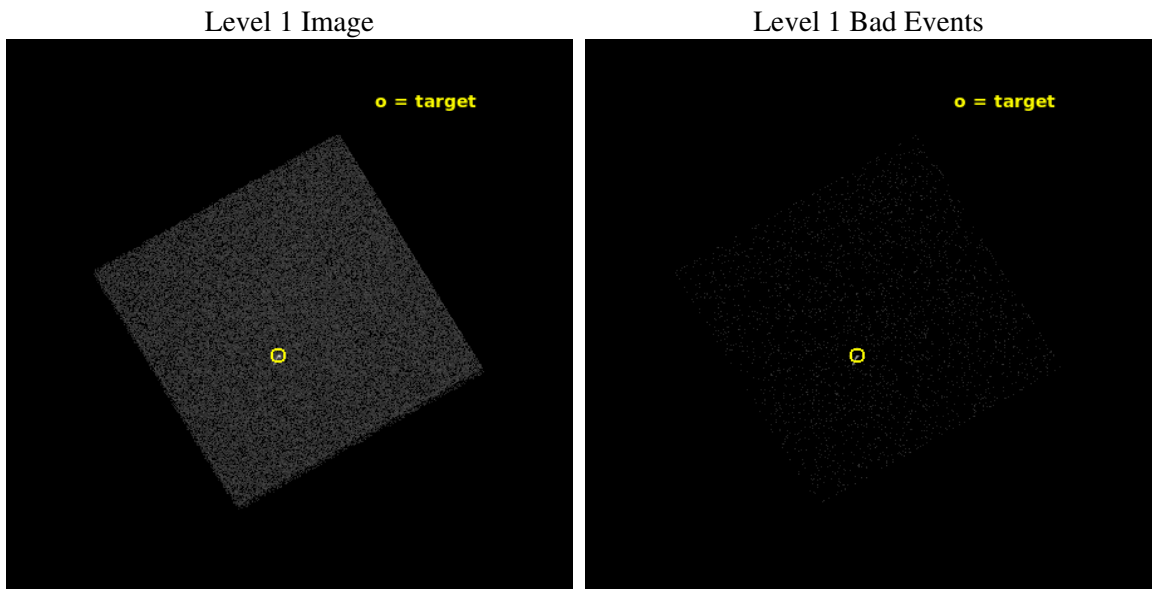
seq_num	290344	Sequence number
obs_id	5071	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14293729419	Nominal RA [deg]
dec_nom	45.804545278897	Nominal Dec [deg]
roll_nom	284.52566455051	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1083.681298703	[s]
livetime	1074.5343157484	Ontime multiplied by DTCOR
l2events	51151	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	1083.681298703	[s]
caldbver	4.9.2	&#160	l1events	103976	Number of level 1 events
date	2020-10-05T06:24:20	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

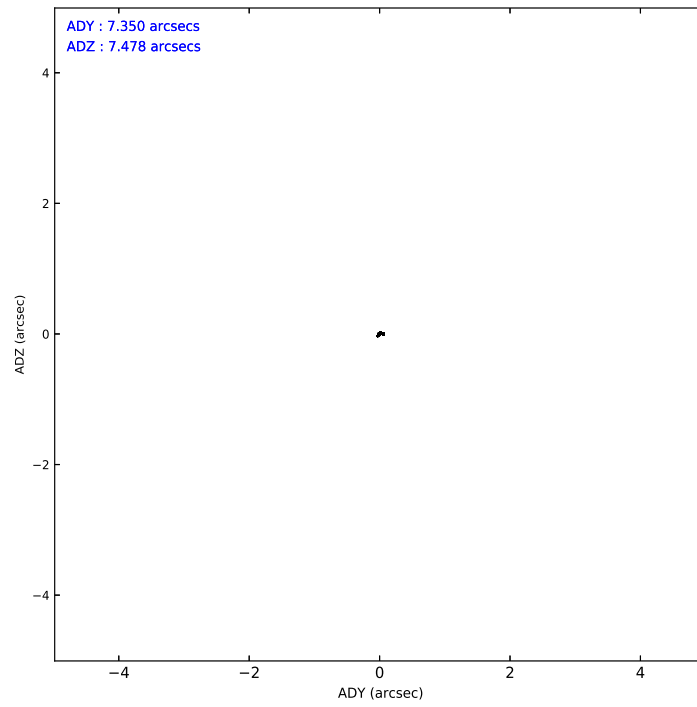
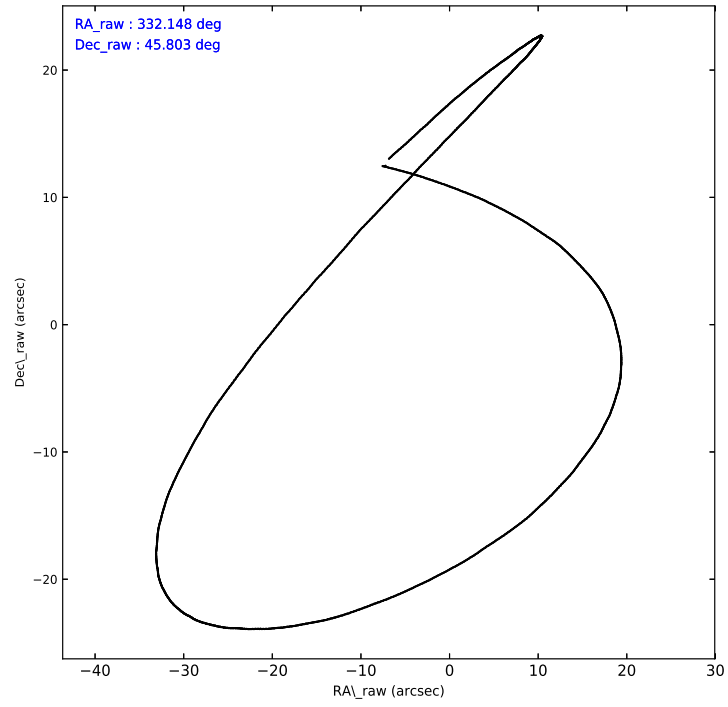
	<b>segment 0</b>
level 1 events	103976
rejected events	31072
rejected %	29%

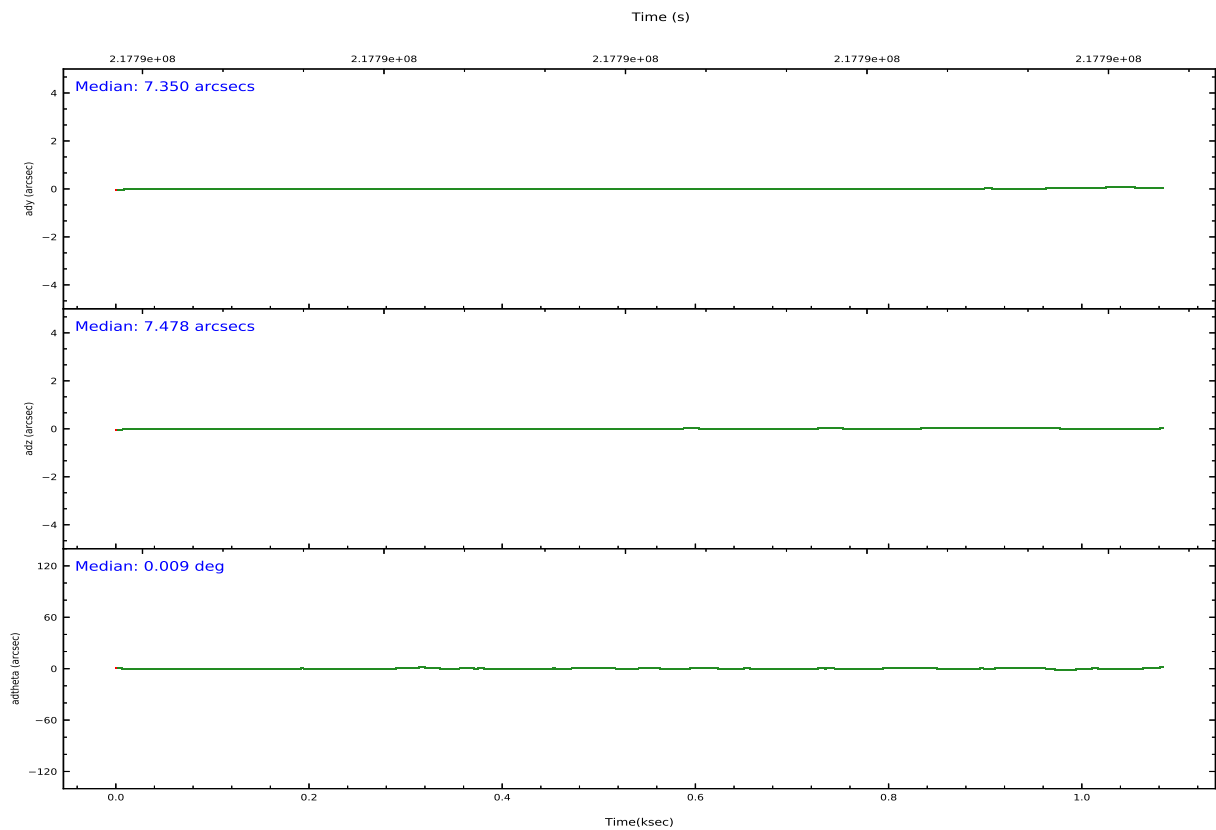
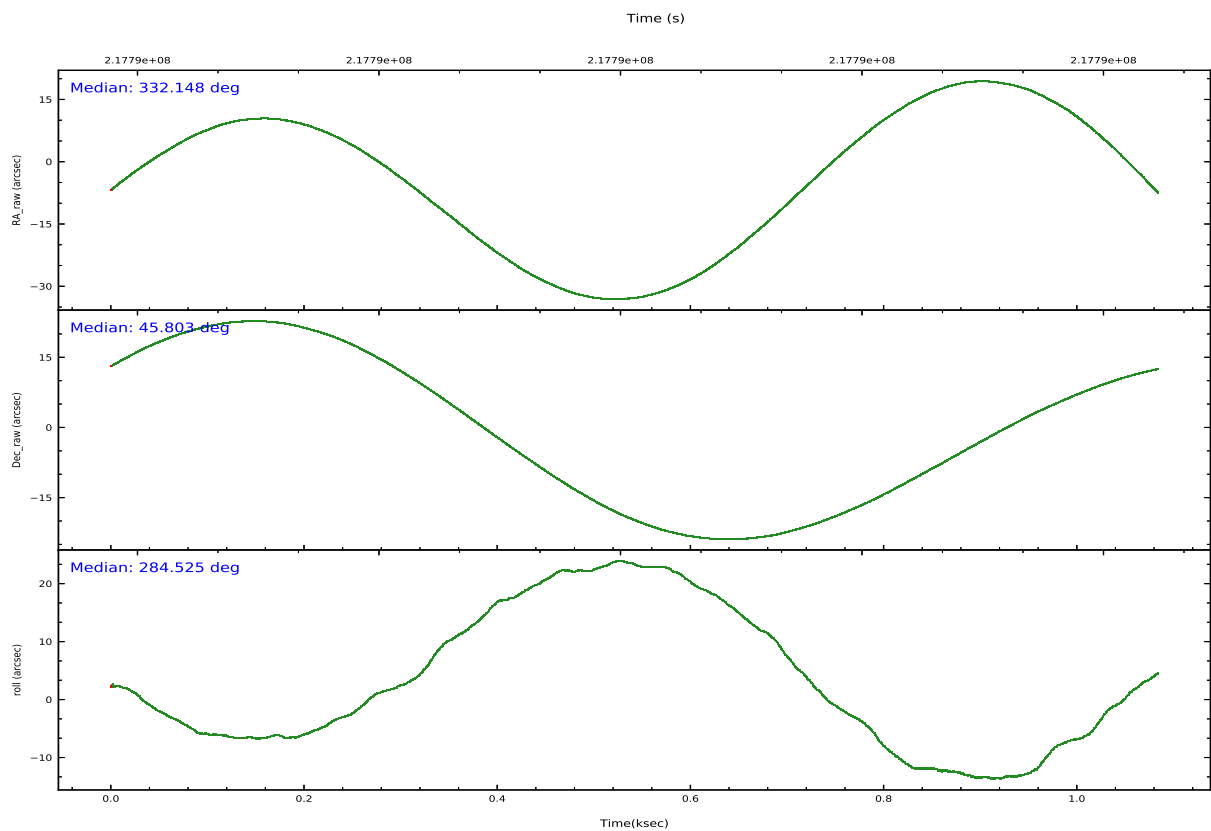
## 2.2 Compared Parameters

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	332.117098	332.14293729419
[deg] Pointing Dec	45.821550	45.804545278897
[deg] Pointing Roll	284.659172	284.52566455051
[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)	217790157.184000	217789781.0834
Observation start date	2004-11-25T17:14:53	2004-11-25T17:09:41
[s] Observation end time (MET)	217791057.184000	217791191.48347
Observation end date	2004-11-25T17:29:53	2004-11-25T17:33:11

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

## 2.3 Aspect





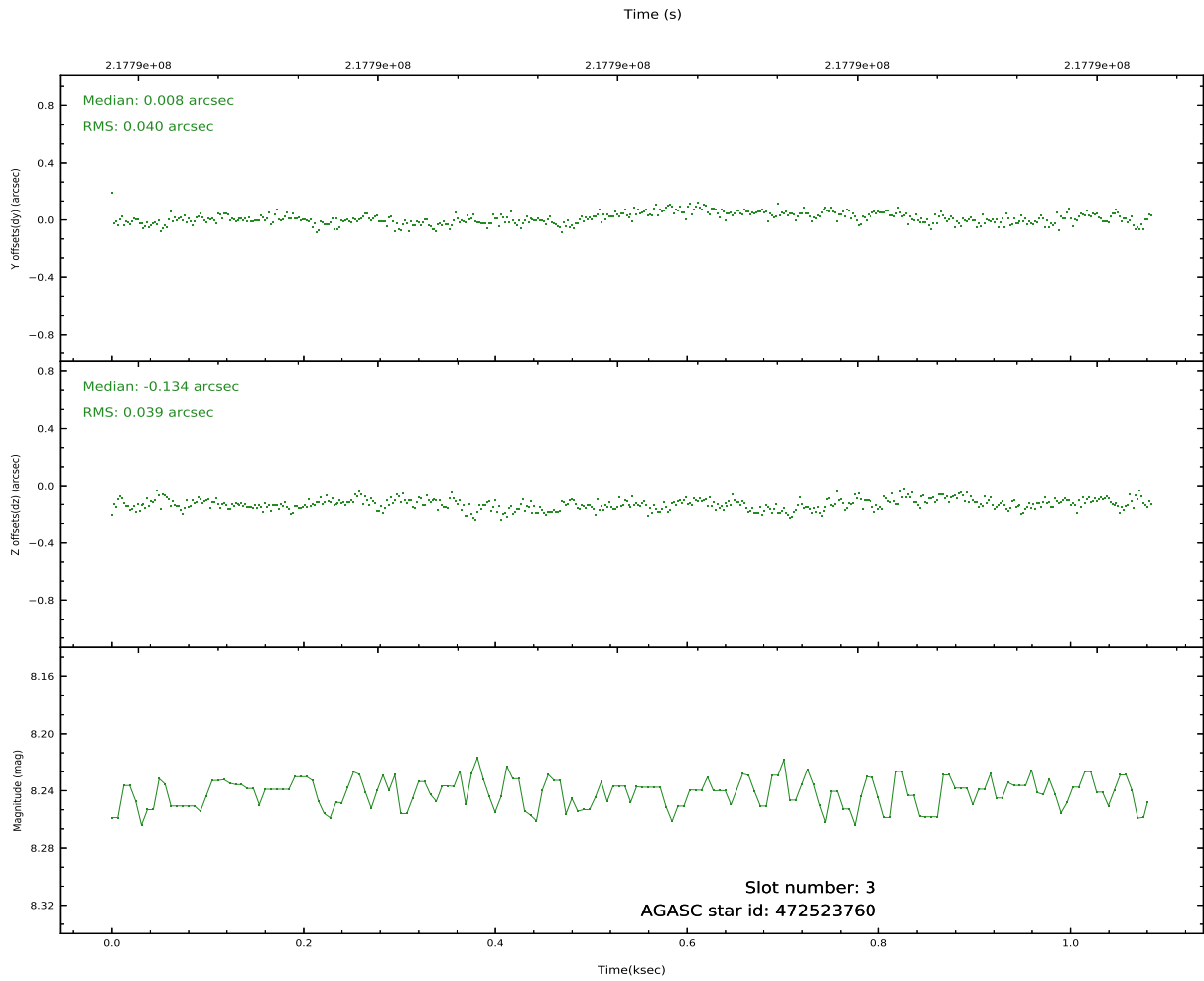
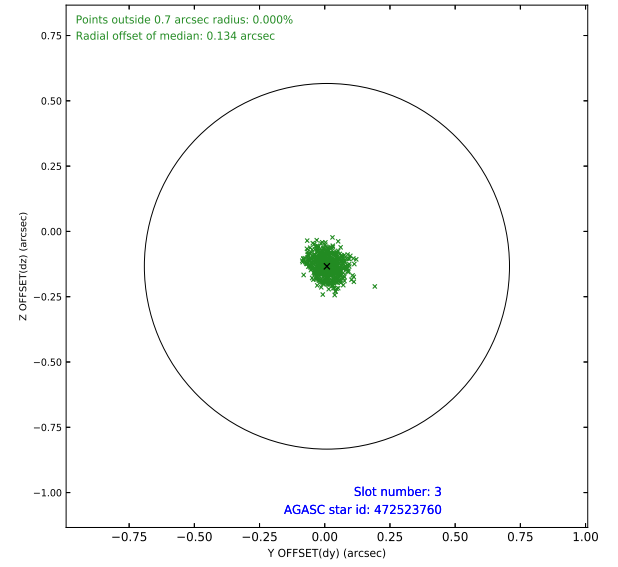
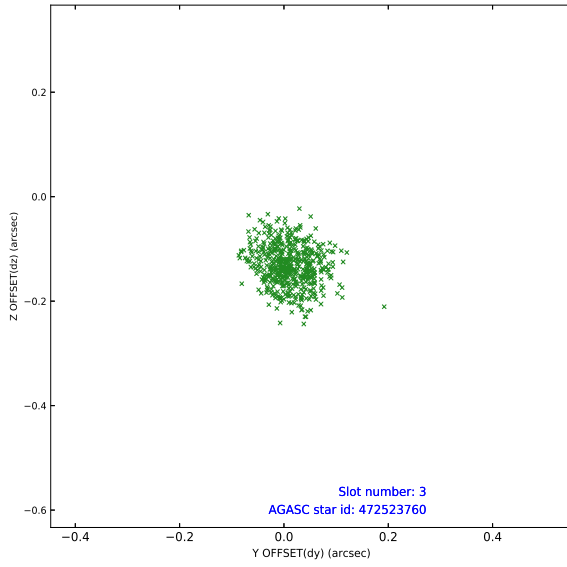
Slot Statistics

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	7.02	265	1.000	-0.008	0.003	0.007	0.012	0.000000	0.000000	-762.96	-1295
1	FID		HRC-I-2	7.05	265	1.000	0.157	-0.116	0.006	0.010	0.000000	0.000000	846.95	-1301
2	FID		HRC-I-3	7.09	265	1.000	-0.030	0.024	0.006	0.010	0.000000	0.000000	-1188.26	1004
3	GUIDE	used	472523760	8.24	530	1.000	0.008	-0.134	0.060	0.094	331.645363	45.403260	1152.25	-1538
4	GUIDE	used	472527720	7.04	530	1.000	0.224	-0.120	0.095	0.177	331.460205	45.112509	2043.63	-2265
5	GUIDE	used	472533912	9.16	530	1.000	-0.123	0.107	0.084	0.133	331.791136	46.368695	-2108.05	-293
6	GUIDE	used	472655152	9.43	530	1.000	-0.070	0.099	0.094	0.154	332.504239	45.862991	95.19	972
7	GUIDE	used	472659832	9.48	528	1.000	-0.044	0.044	0.100	0.164	332.780399	46.098139	-550.80	1853

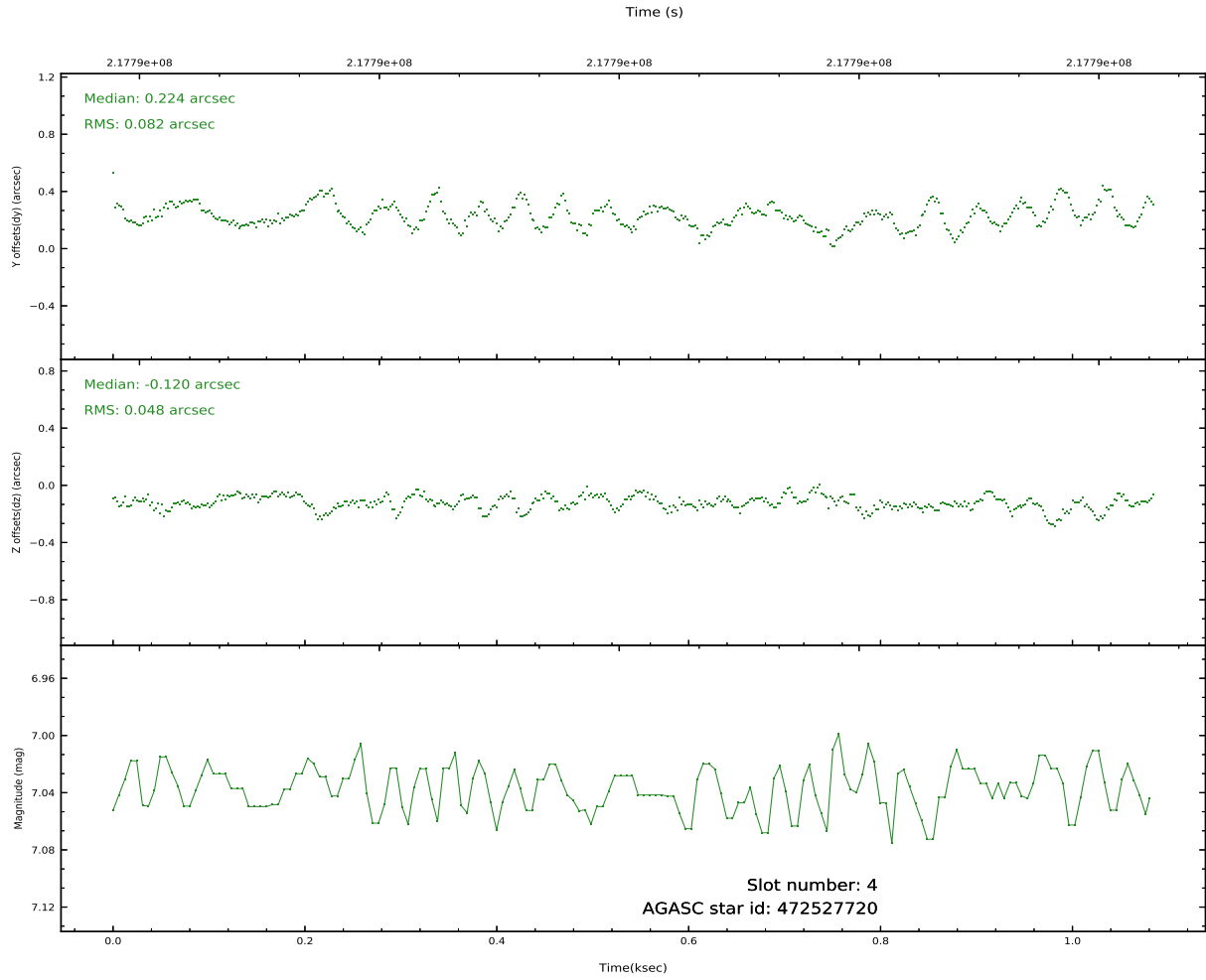
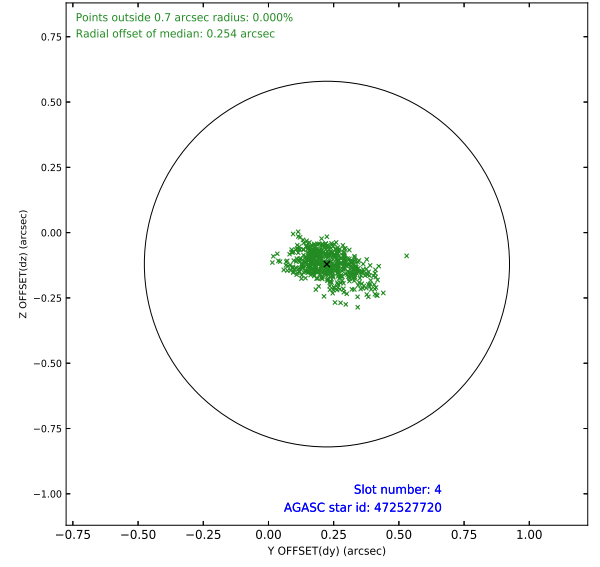
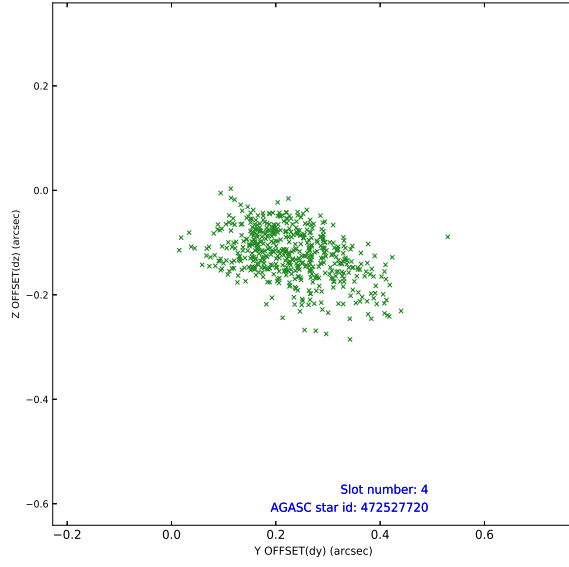


## 2.4 Star Slots

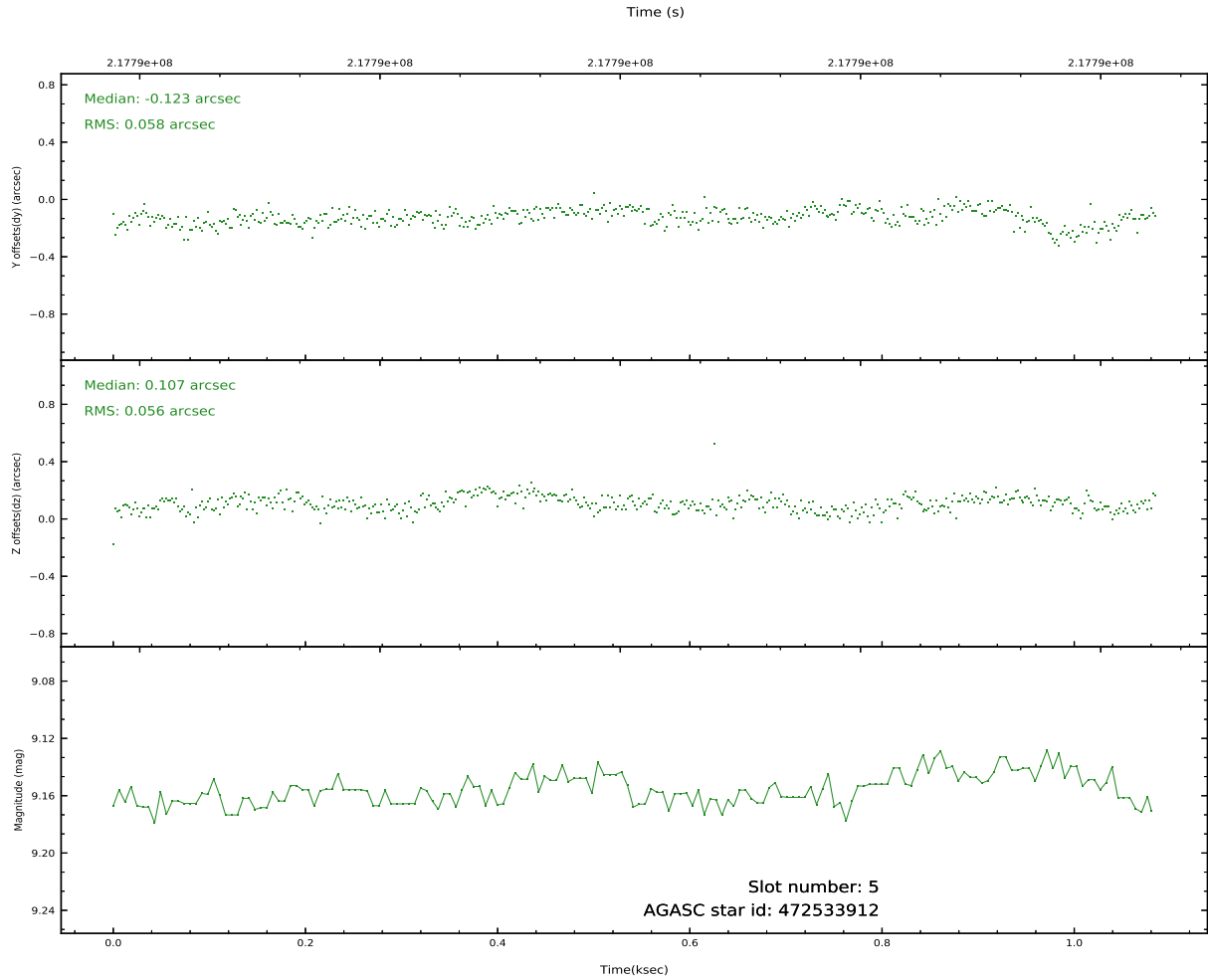
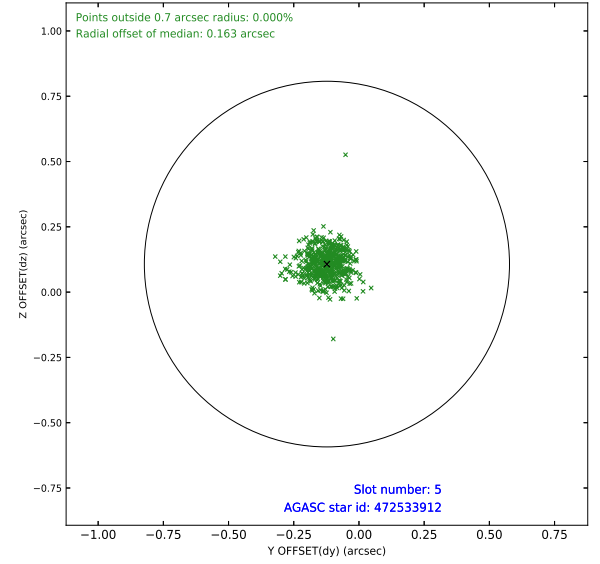
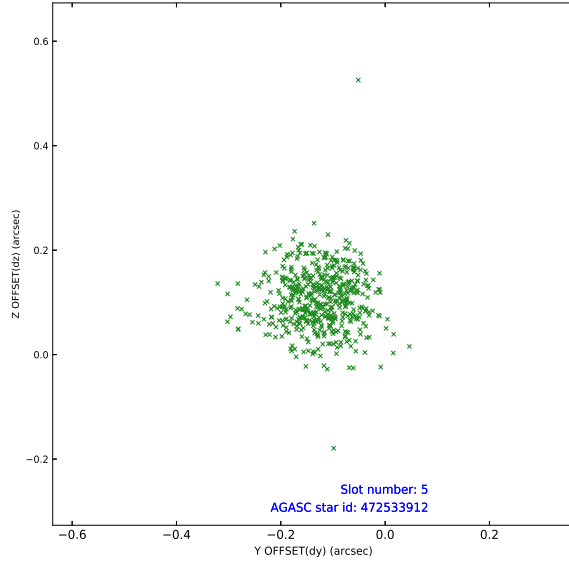
### 2.4.1 Slot 3



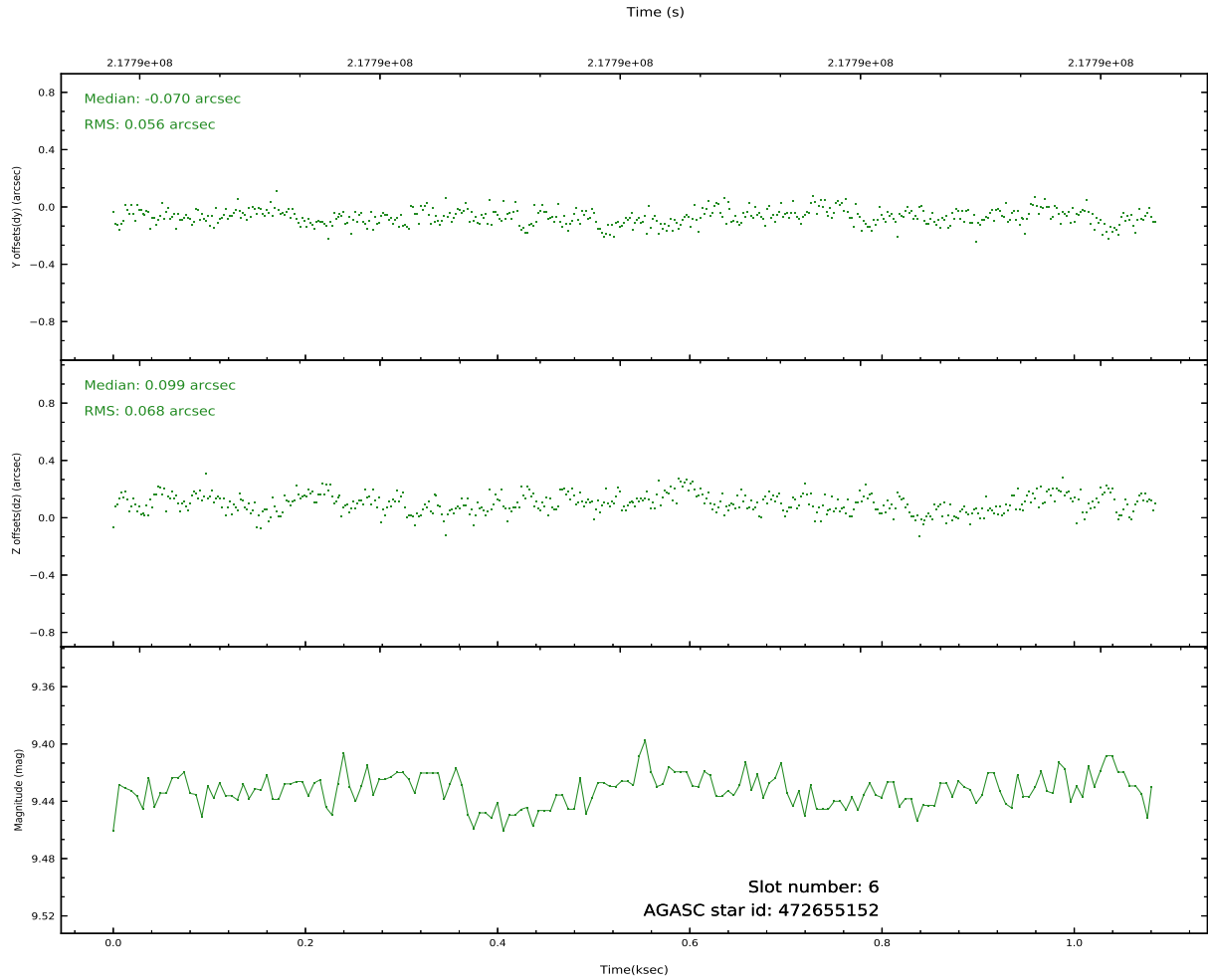
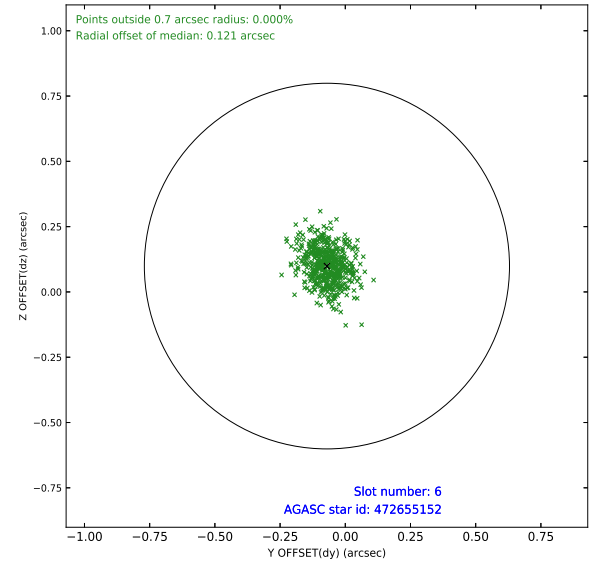
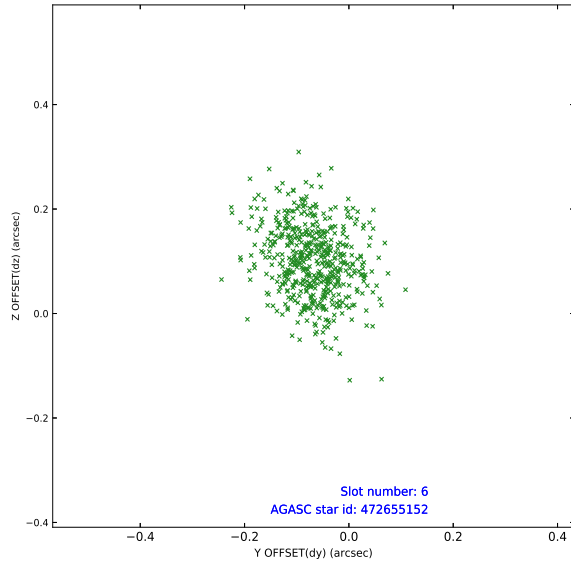
## 2.4.2 Slot 4



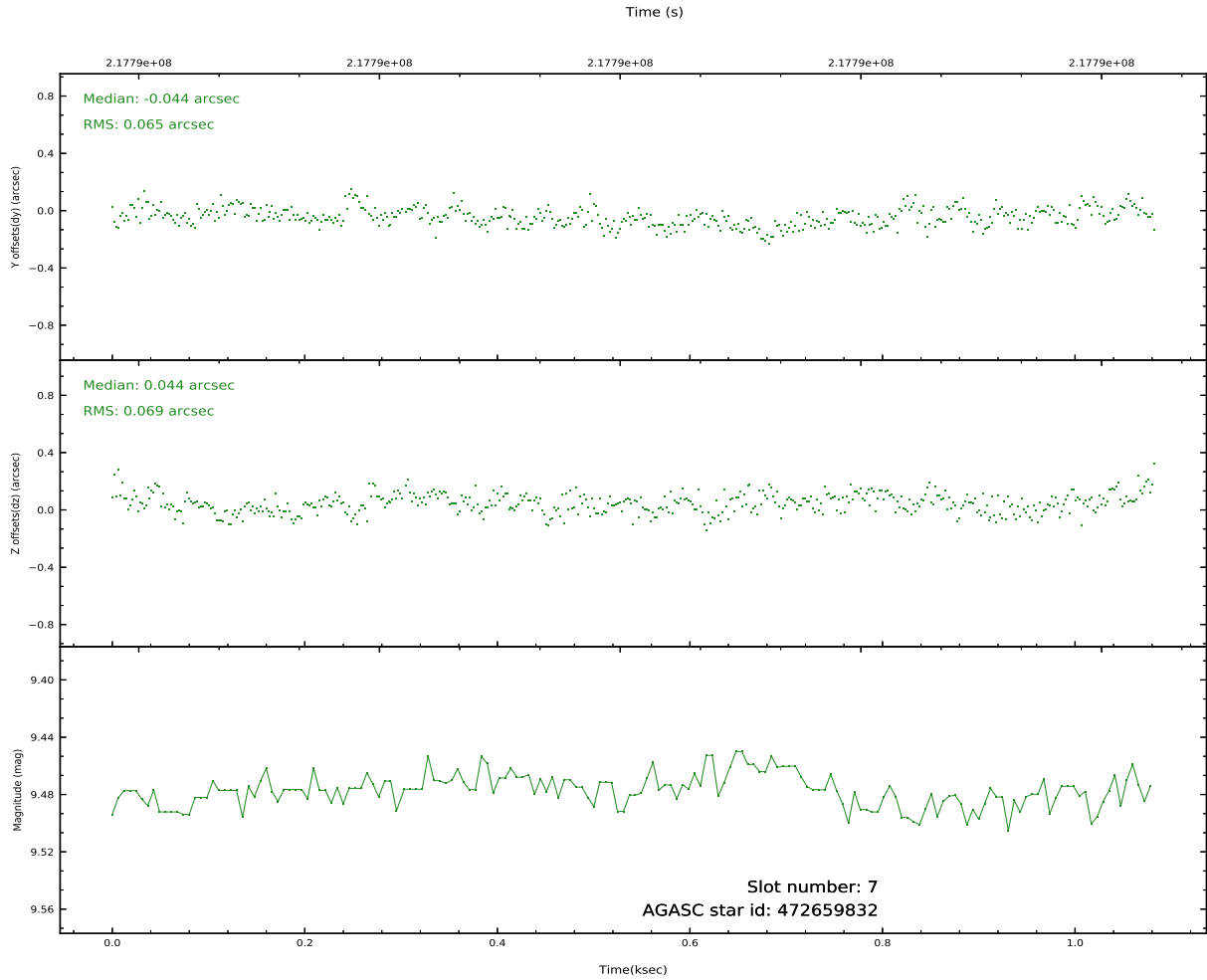
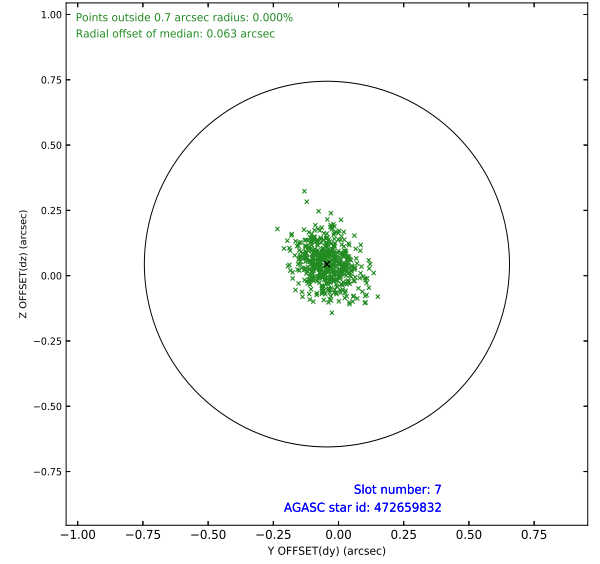
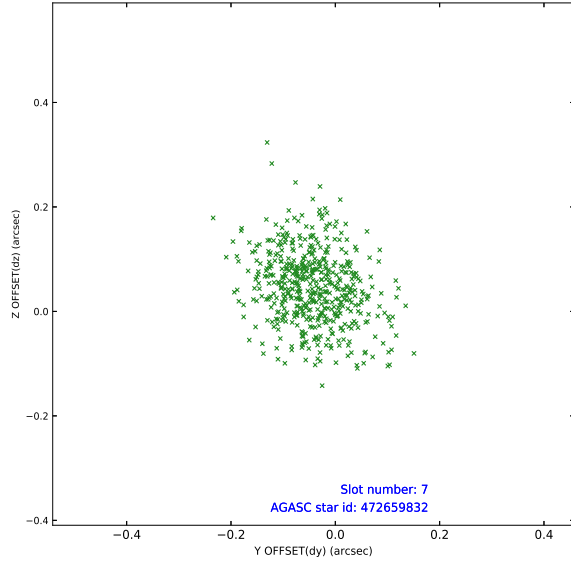
### 2.4.3 Slot 5



## 2.4.4 Slot 6

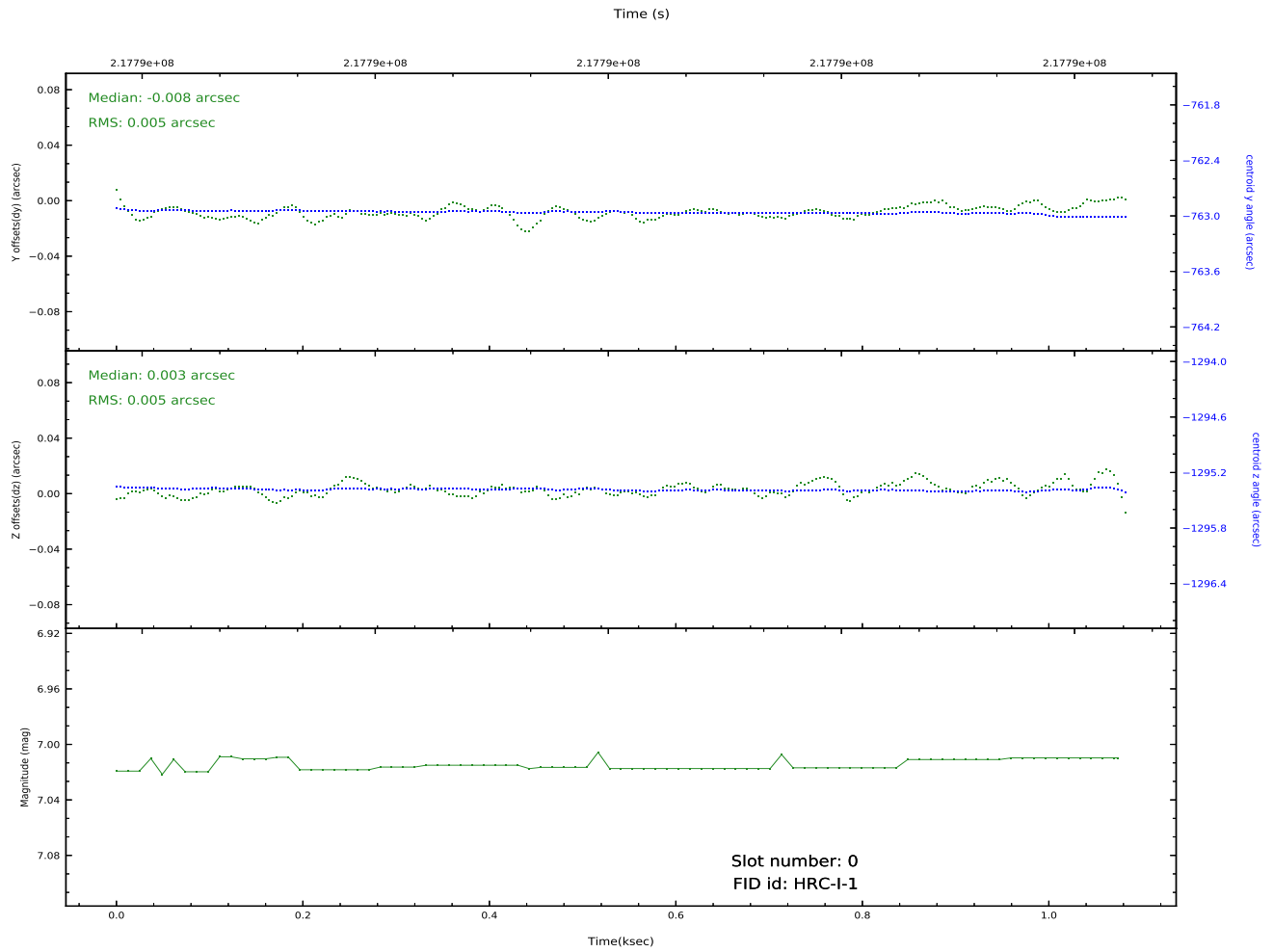
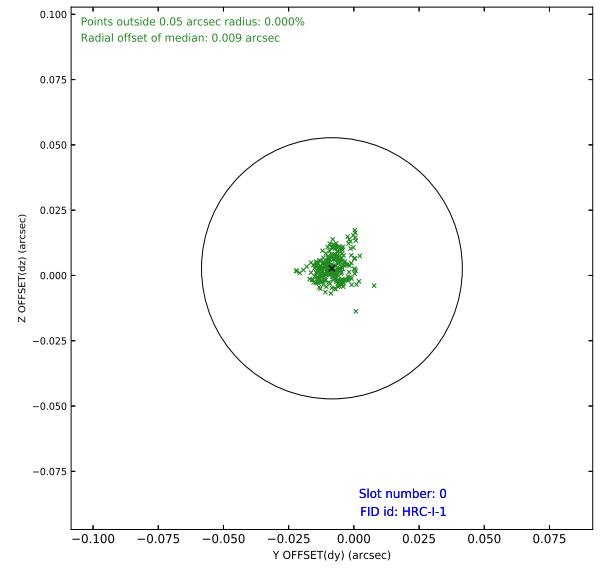
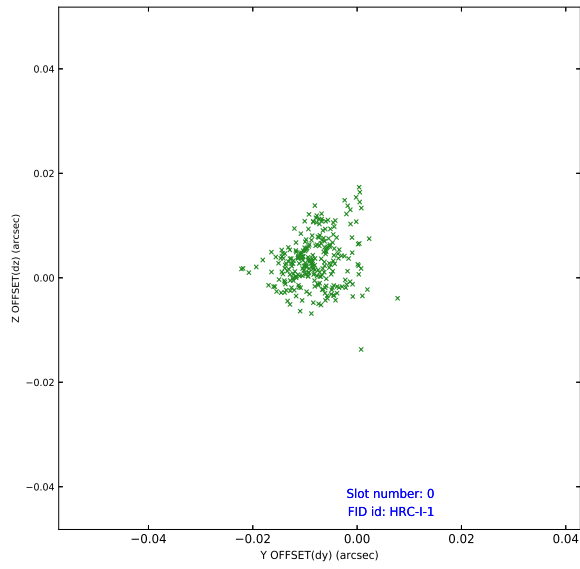


## 2.4.5 Slot 7

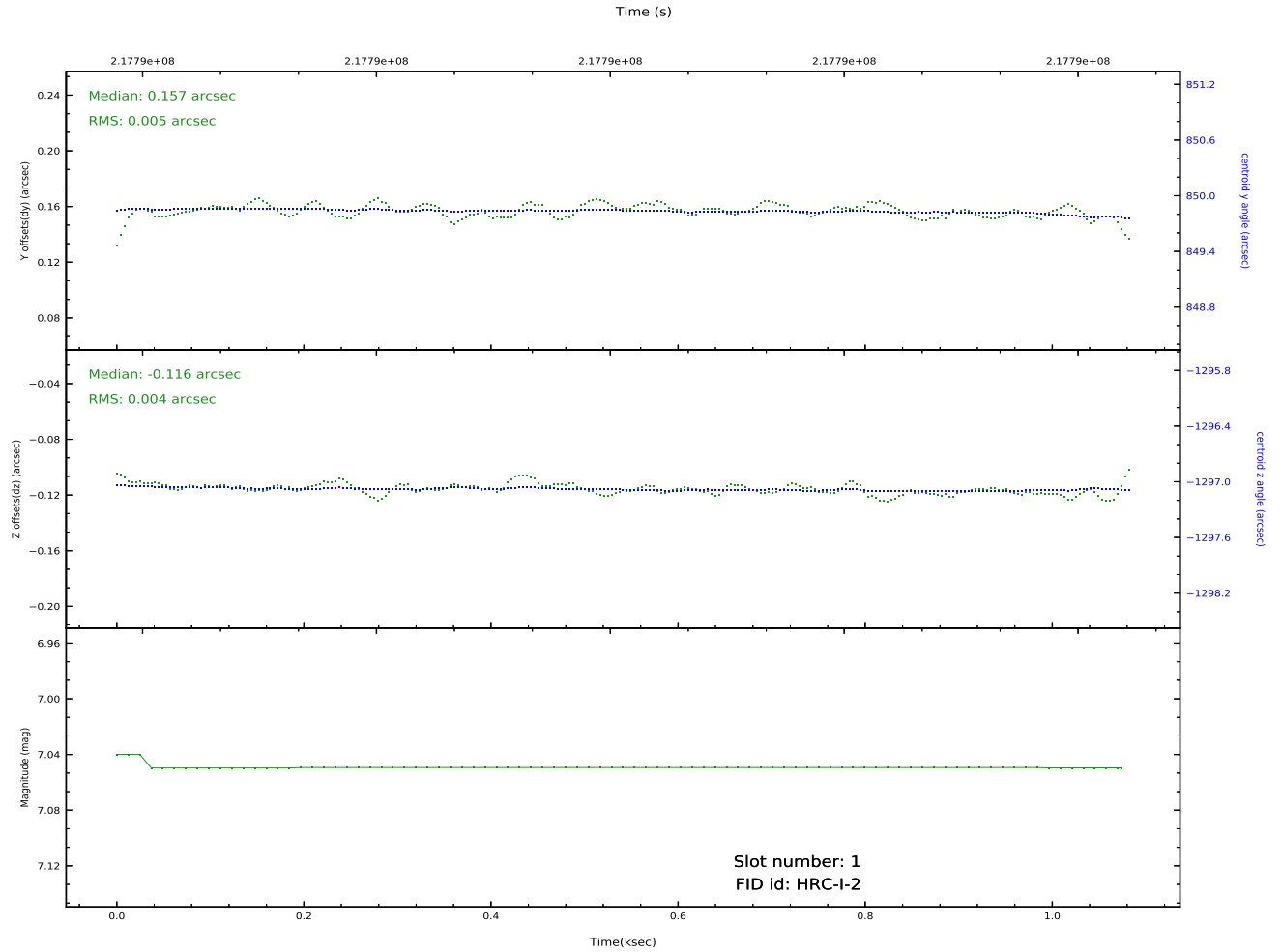
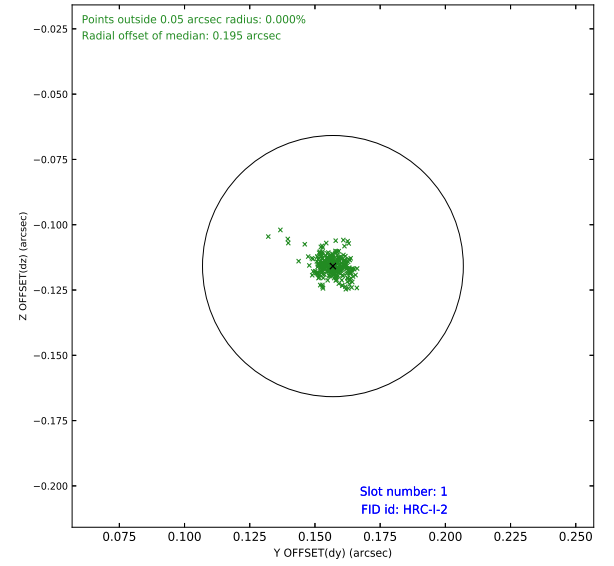
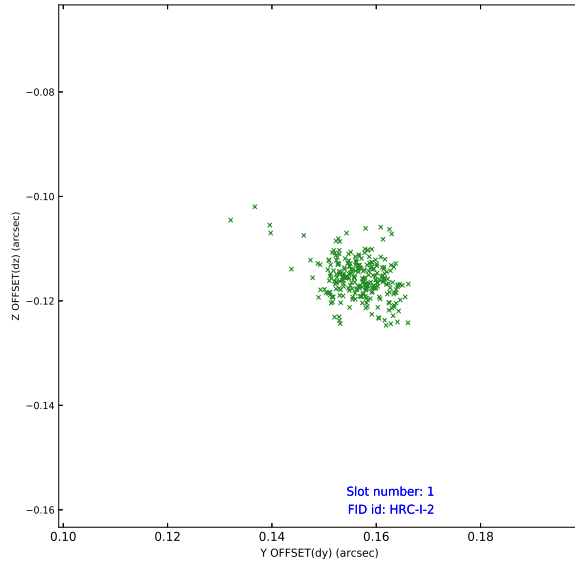


## 2.5 FID Slots

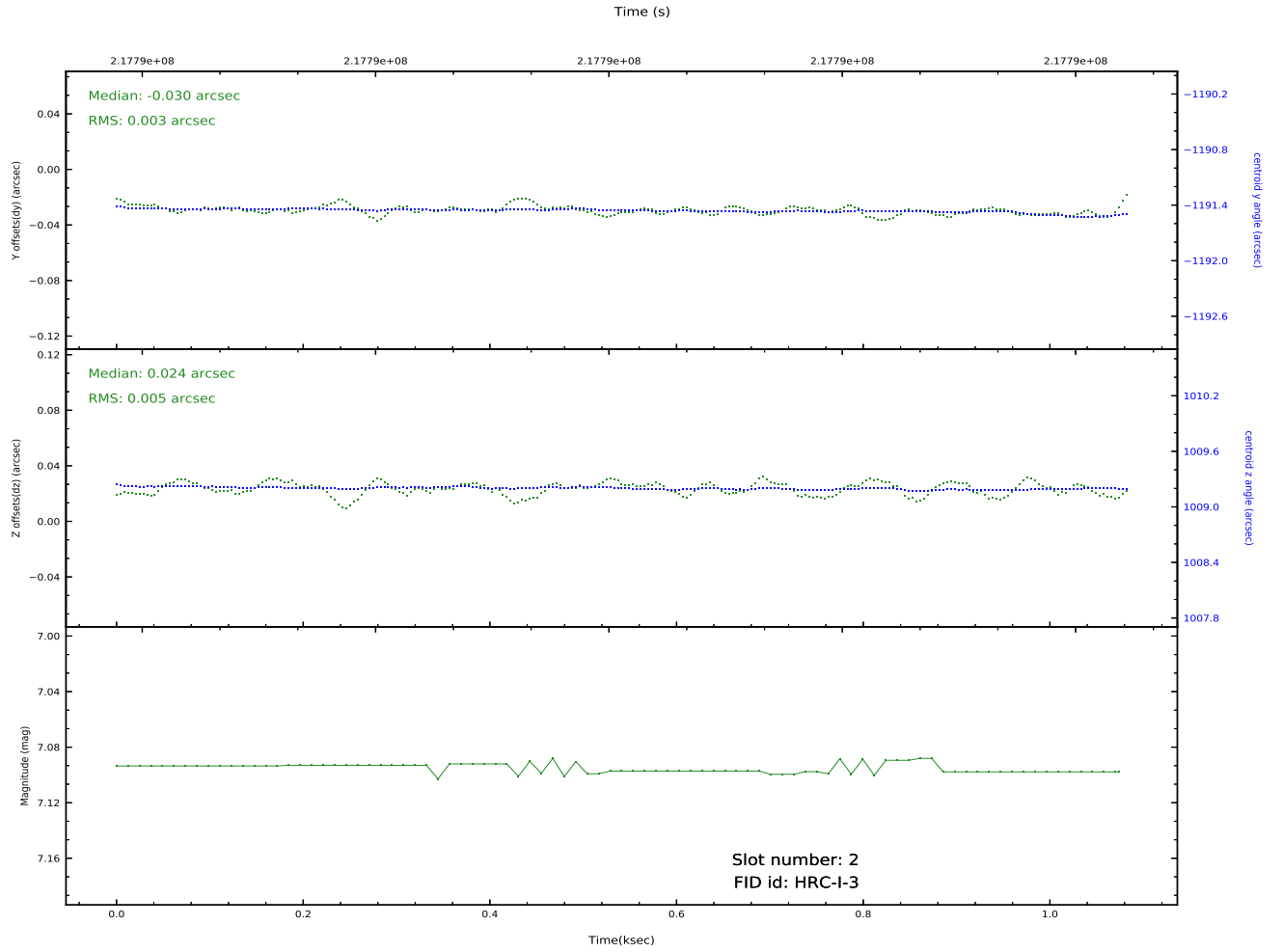
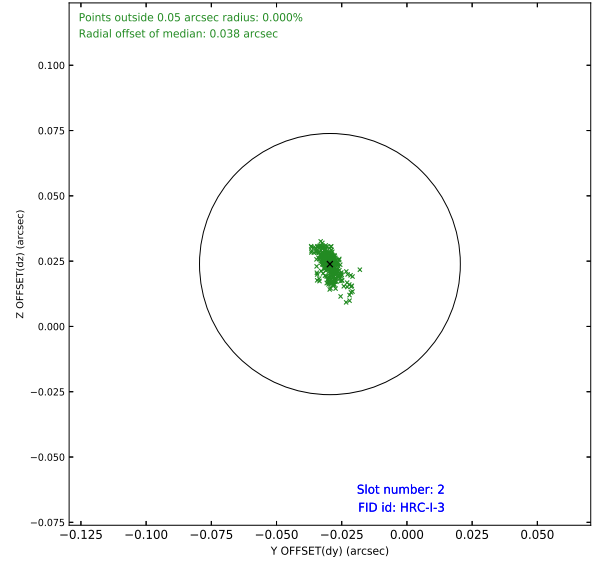
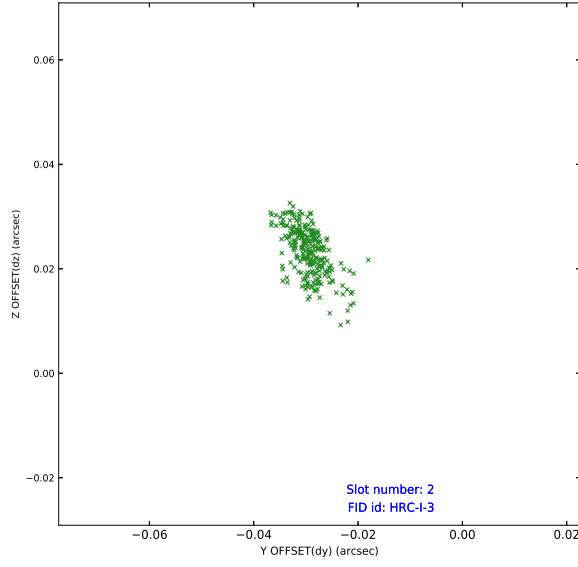
### 2.5.1 Slot 0



## 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	1.083681

### **A.2 Comments**