

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5994 - L2 Version 5  
Chandra X-Ray Center

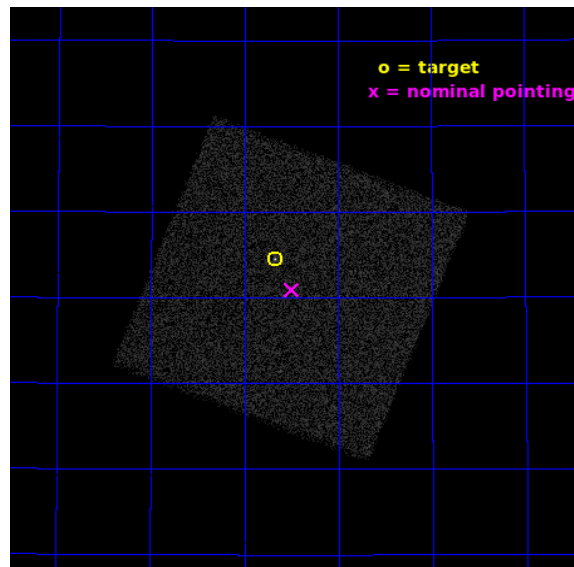
L2 Processing Date : Oct 10 2020

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# 1 Front

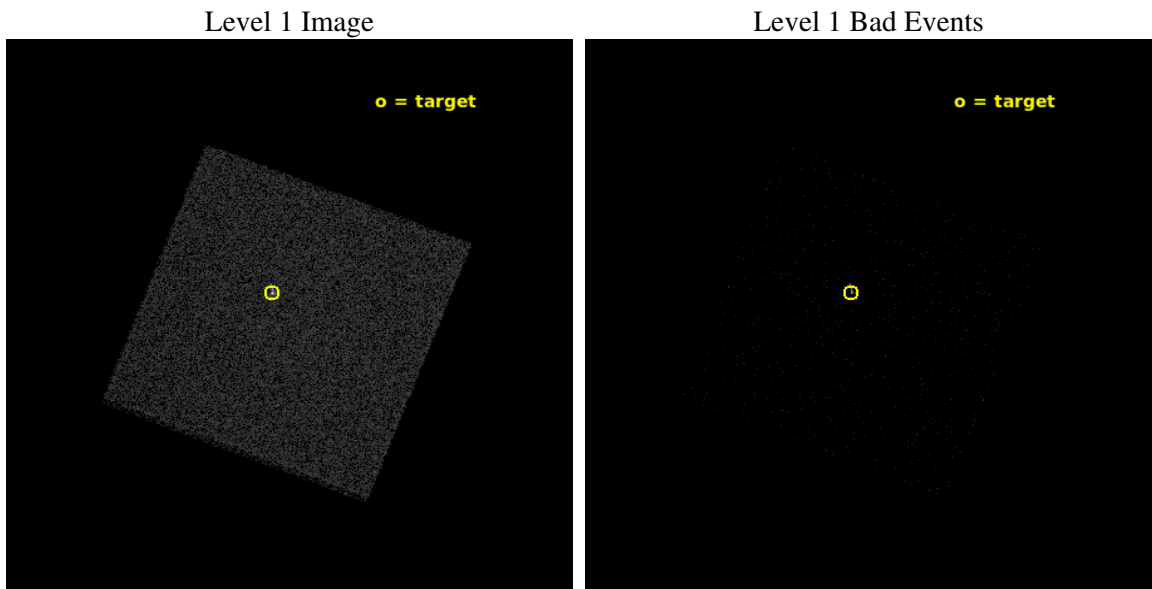
seq_num	290486	Sequence number
obs_id	5994	Observation id
title	AO6 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1237082341	Nominal RA [deg]
dec_nom	45.682344029764	Nominal Dec [deg]
roll_nom	246.30332532277	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1182.0813044608	[s]
livetime	1173.2626270819	Ontime multiplied by DTCOR
l2events	49409	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	1182.0813044608	[s]
caldsver	4.9.2	&#160	l1events	131012	Number of level 1 events
date	2020-10-11T02:48:24	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

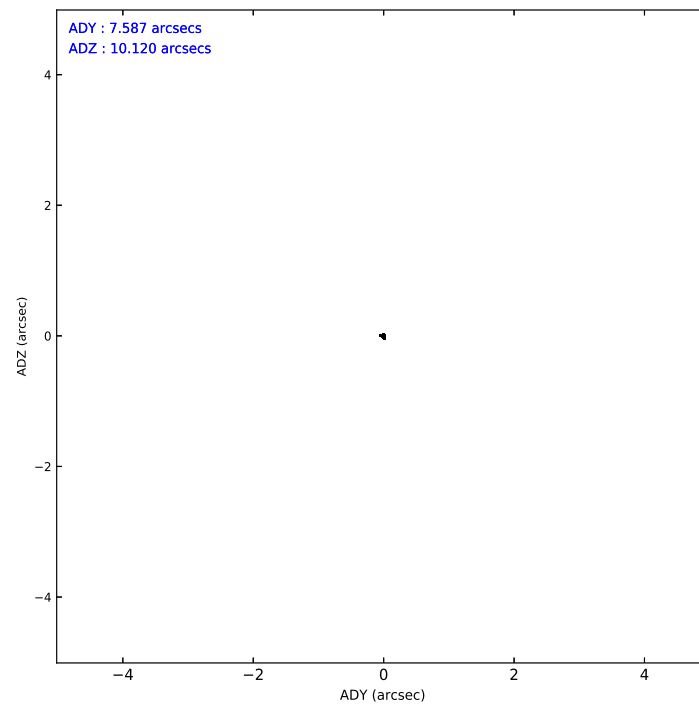
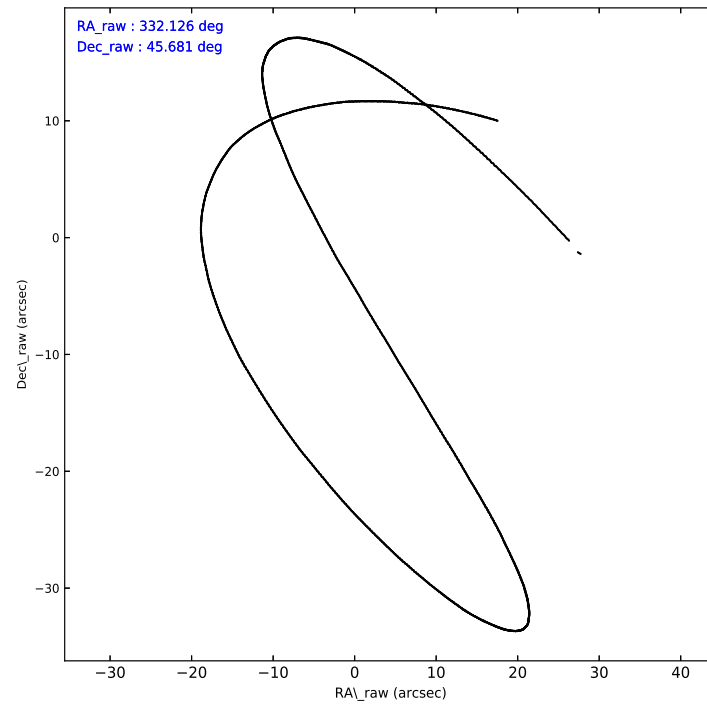
	<b>segment 0</b>
level 1 events	131012
rejected events	58945
rejected %	44%

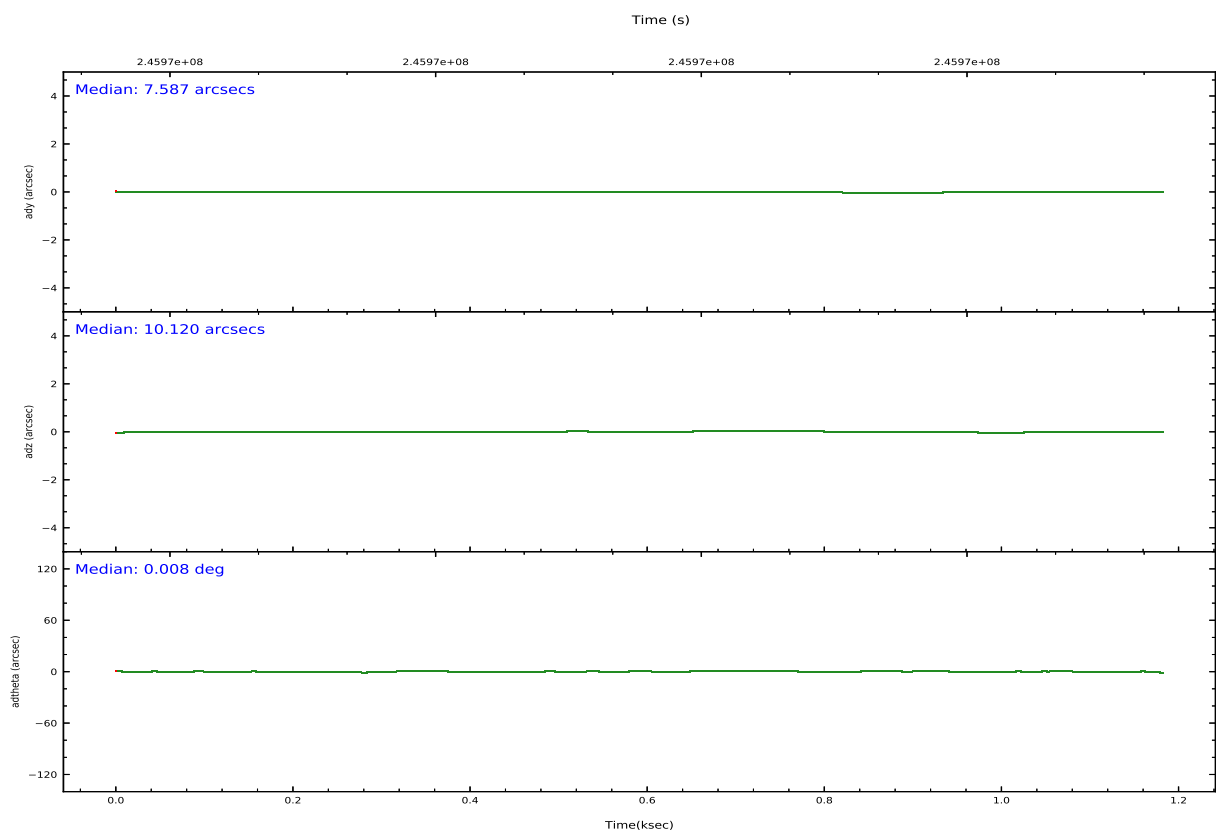
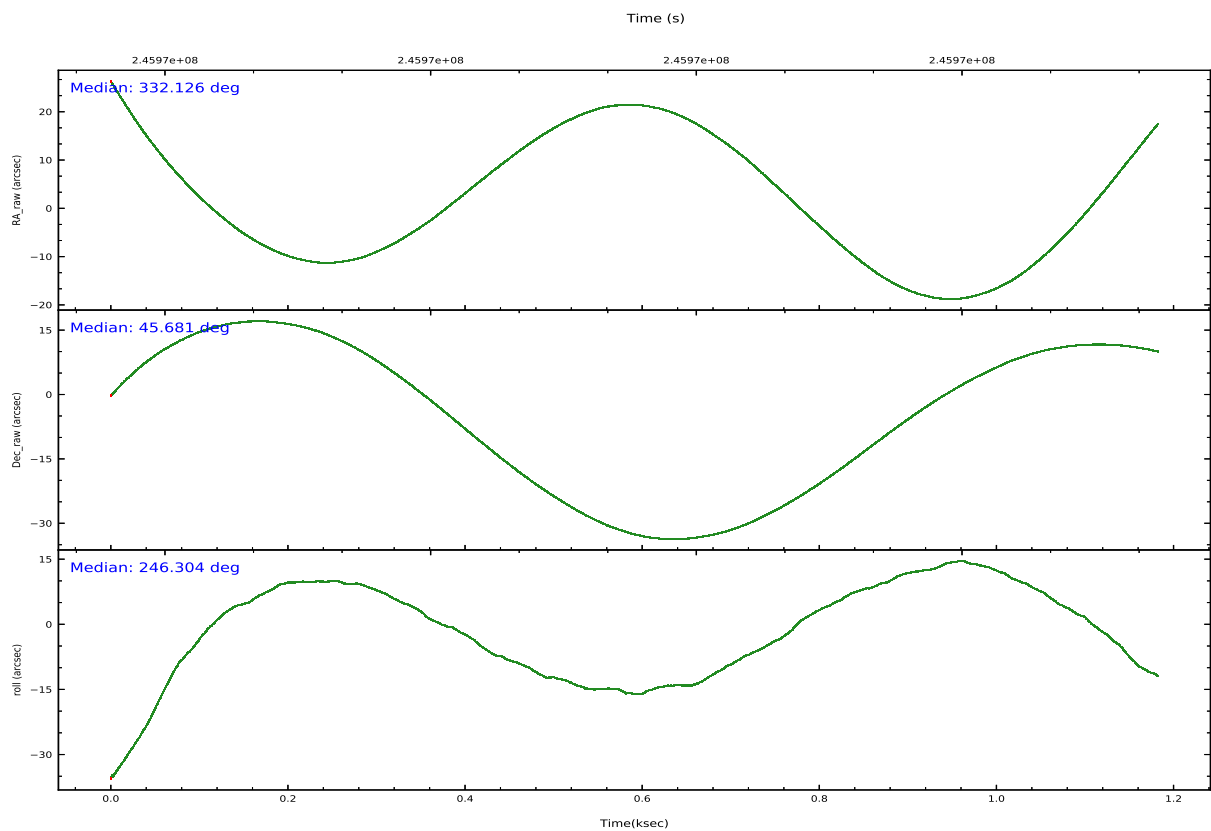
## 2.2 Compared Parameters

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	332.122287	332.1237082341
[deg] Pointing Dec	45.705205	45.682344029764
[deg] Pointing Roll	246.414319	246.30332532277
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	245972621.184000	245971576.19118
Observation start date	2005-10-17T21:42:37	2005-10-17T21:26:16
[s] Observation end time (MET)	245973621.184000	245973755.34128
Observation end date	2005-10-17T21:59:17	2005-10-17T22:02:35

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

## 2.3 Aspect





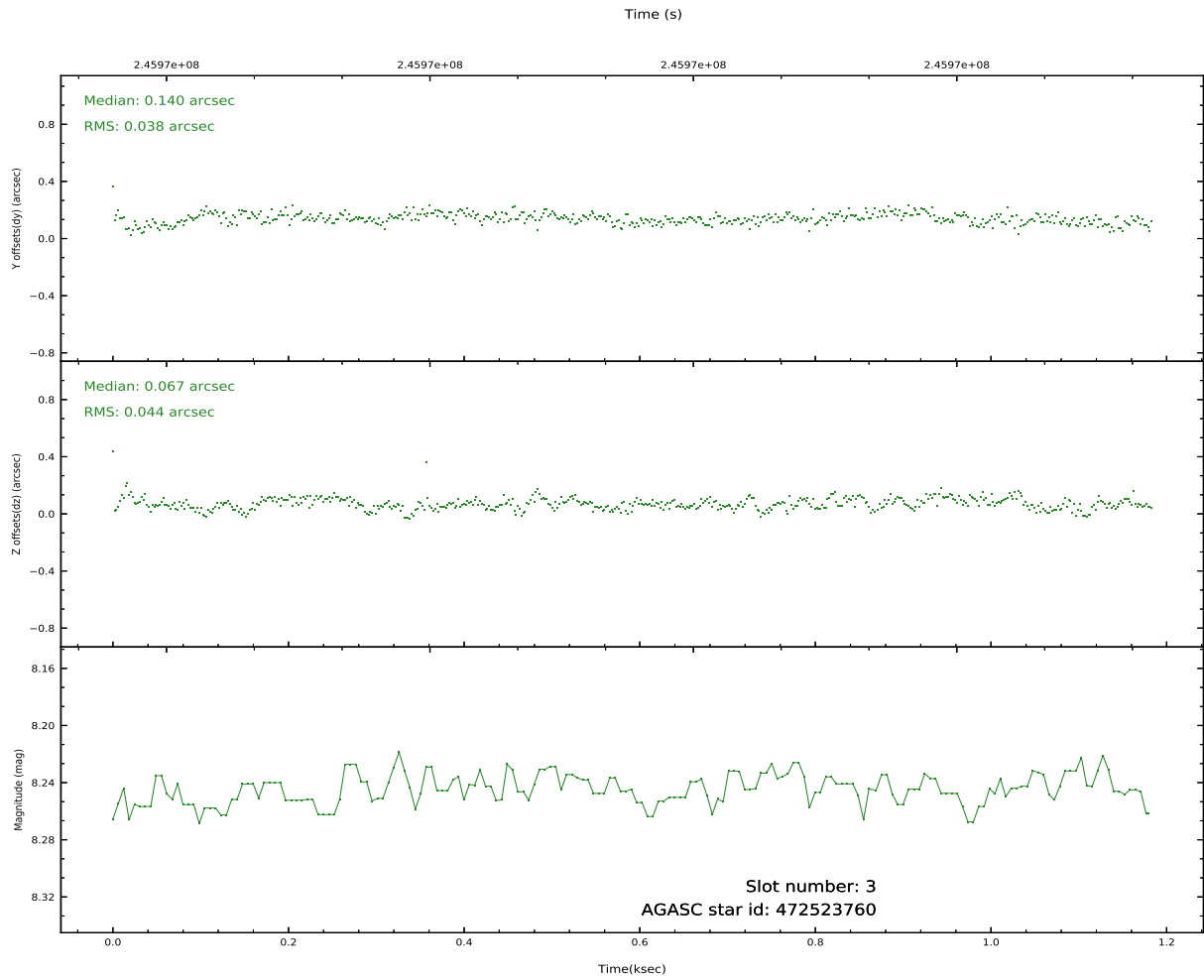
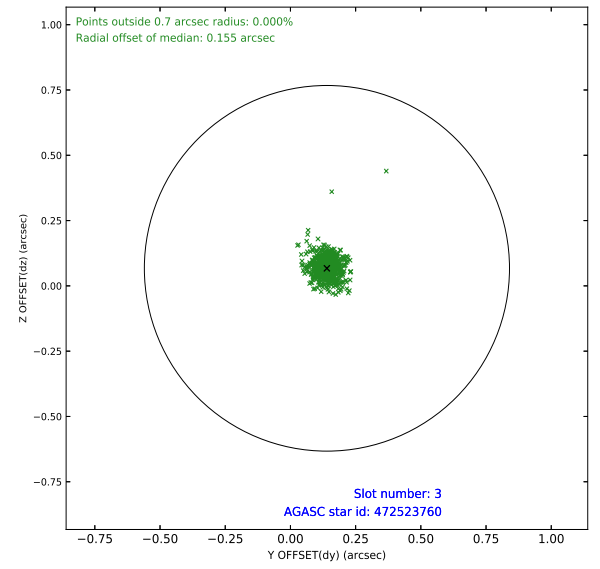
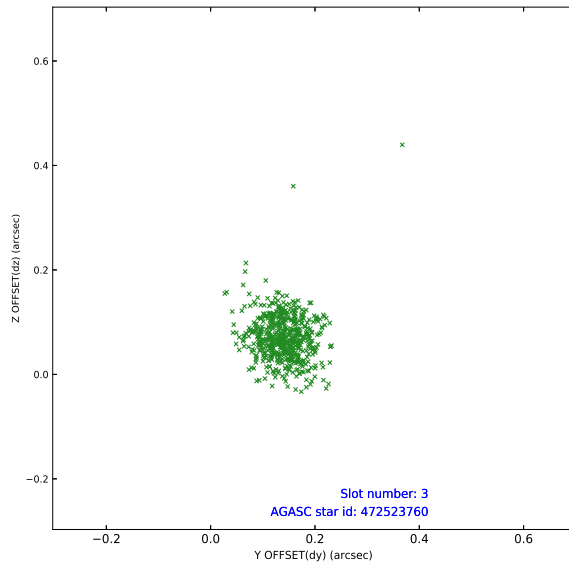
Slot Statistics

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	289	1.000	-0.053	-0.004	0.007	0.012	0.000000	0.000000	-763.21	-1298
1	FID		HRC-I-2	7.05	289	1.000	0.163	-0.072	0.006	0.009	0.000000	0.000000	847.00	-1304
2	FID		HRC-I-3	7.11	289	1.000	0.009	-0.014	0.006	0.010	0.000000	0.000000	-1188.75	1001
3	GUIDE	used	472523760	8.25	577	1.000	0.140	0.067	0.057	0.092	331.645363	45.403260	1477.22	-667
4	GUIDE	used	472533912	9.15	578	1.000	-0.039	-0.054	0.109	0.164	331.791136	46.368695	-1857.12	-1707
5	GUIDE	used	472655152	9.42	578	1.000	0.036	0.032	0.109	0.172	332.504239	45.862991	-907.31	650
6	GUIDE	used	472535576	7.85	573	1.000	-0.138	0.038	0.059	0.095	331.438373	46.291802	-1261.35	-2402
7	GUIDE	used	472665256	9.02	577	1.000	-0.000	-0.082	0.072	0.125	332.808125	46.195041	-2307.27	857

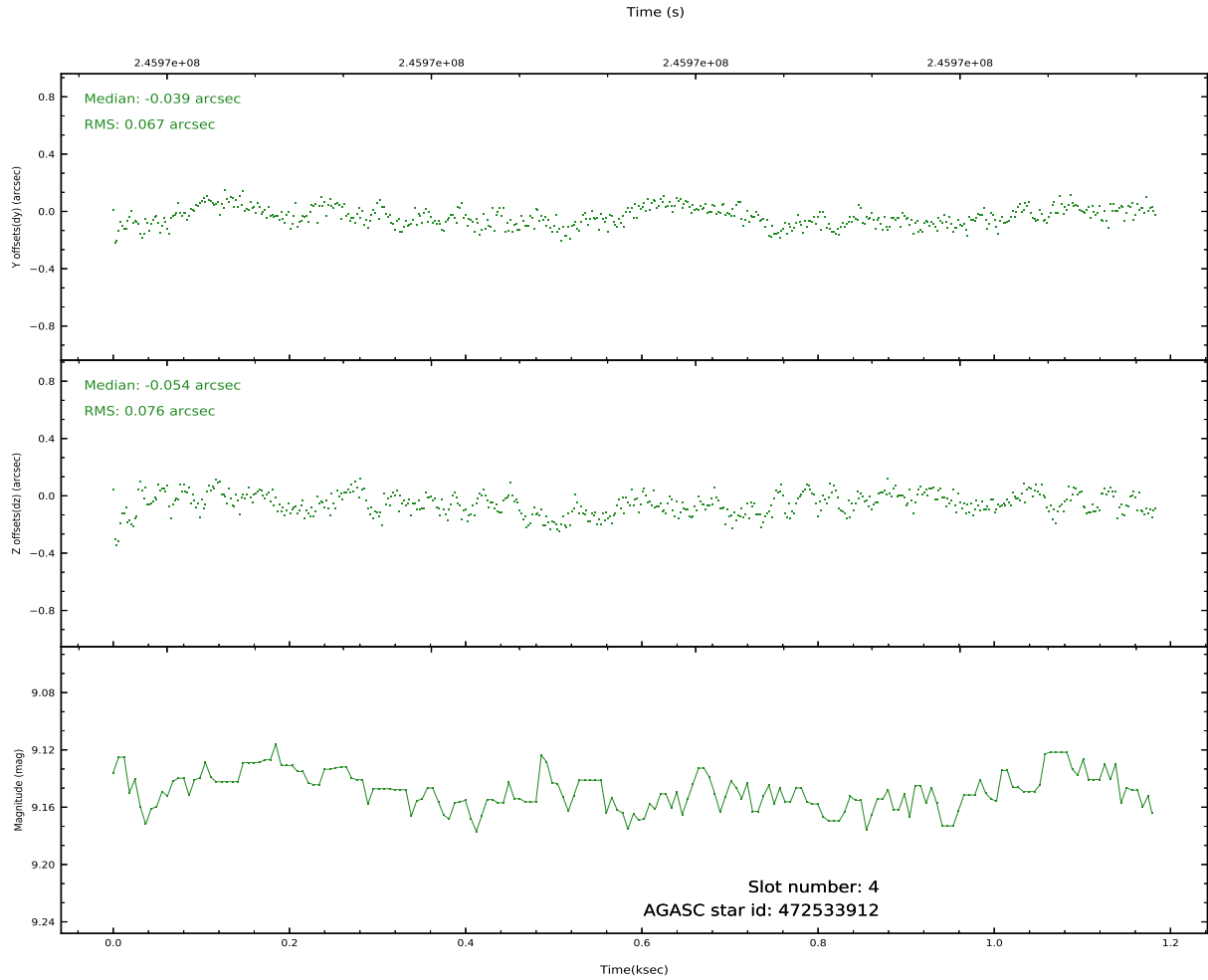
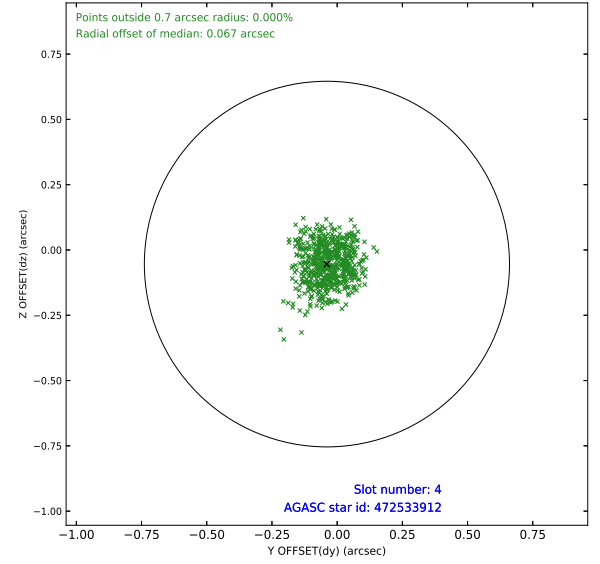
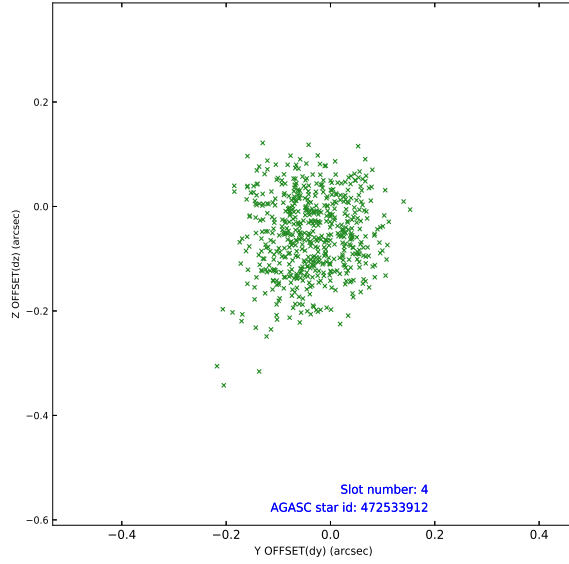


## 2.4 Star Slots

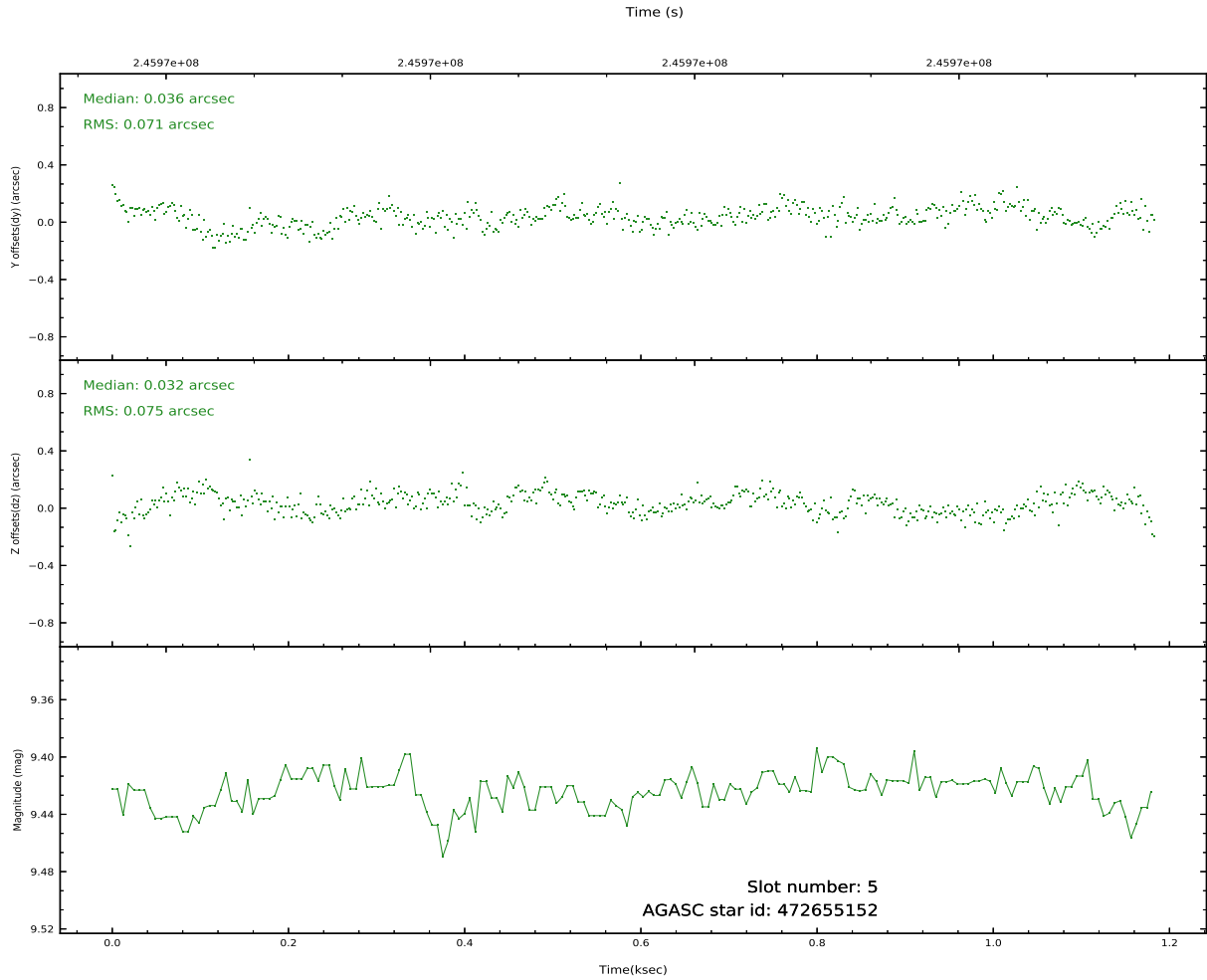
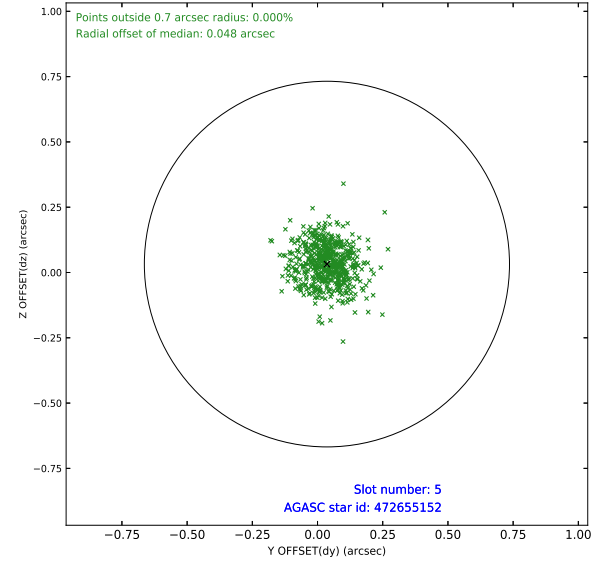
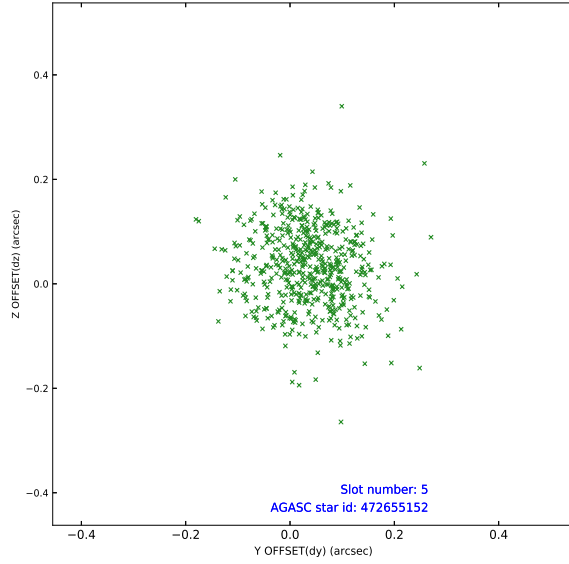
### 2.4.1 Slot 3



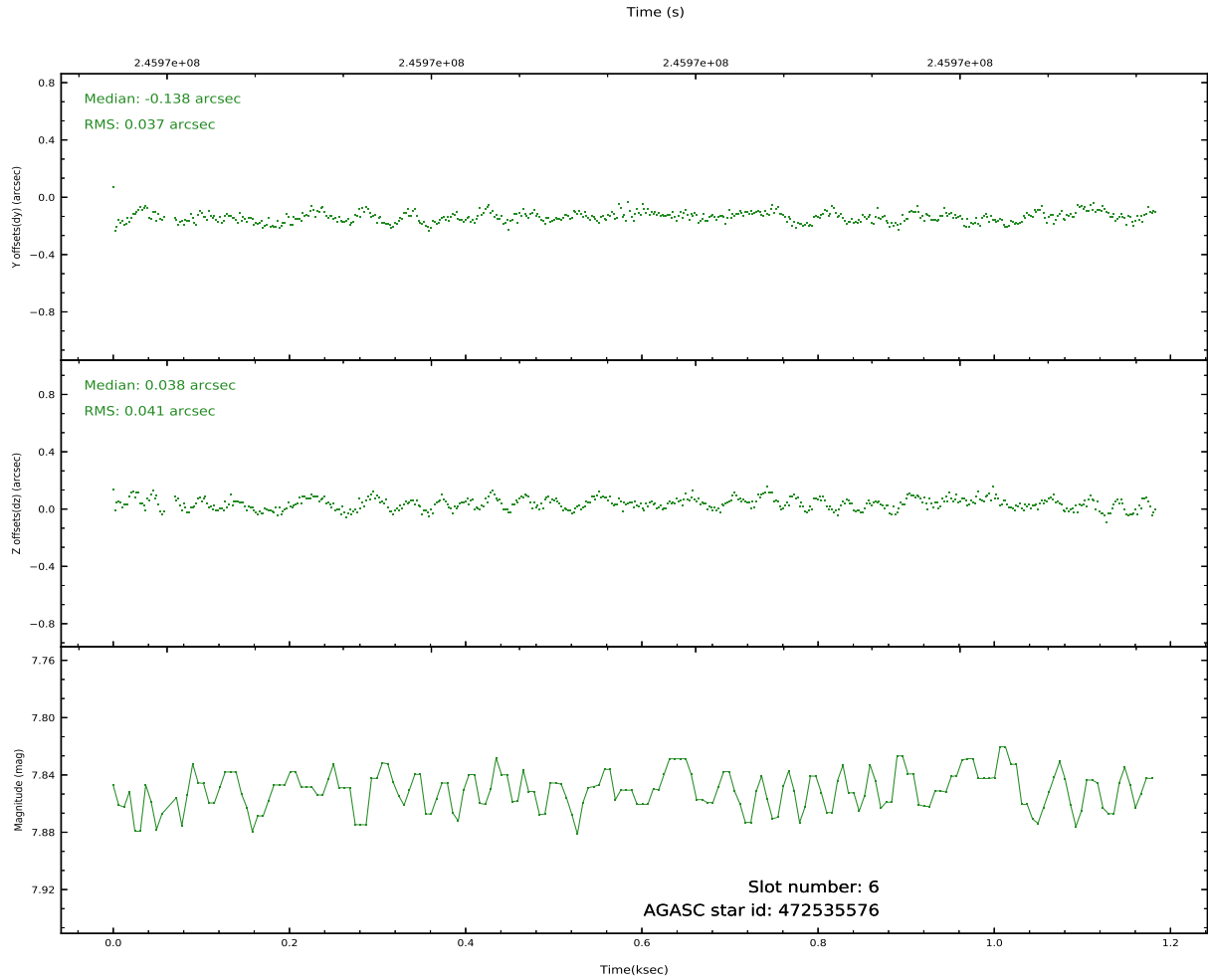
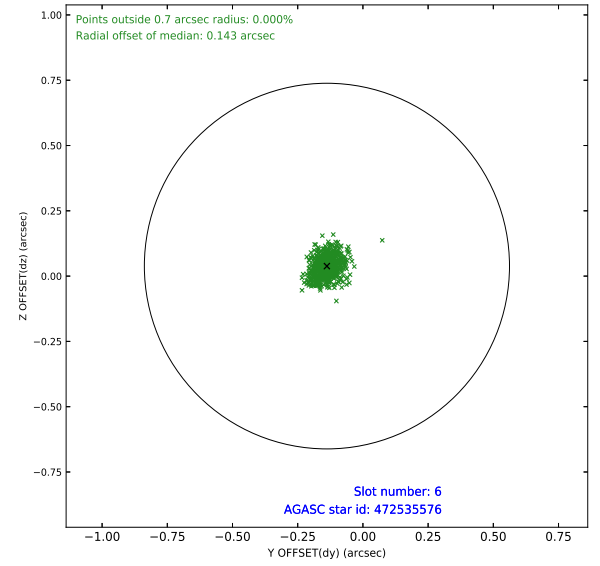
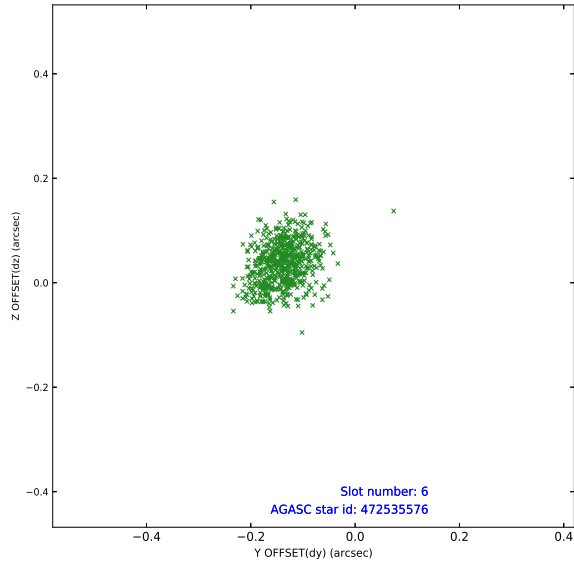
## 2.4.2 Slot 4



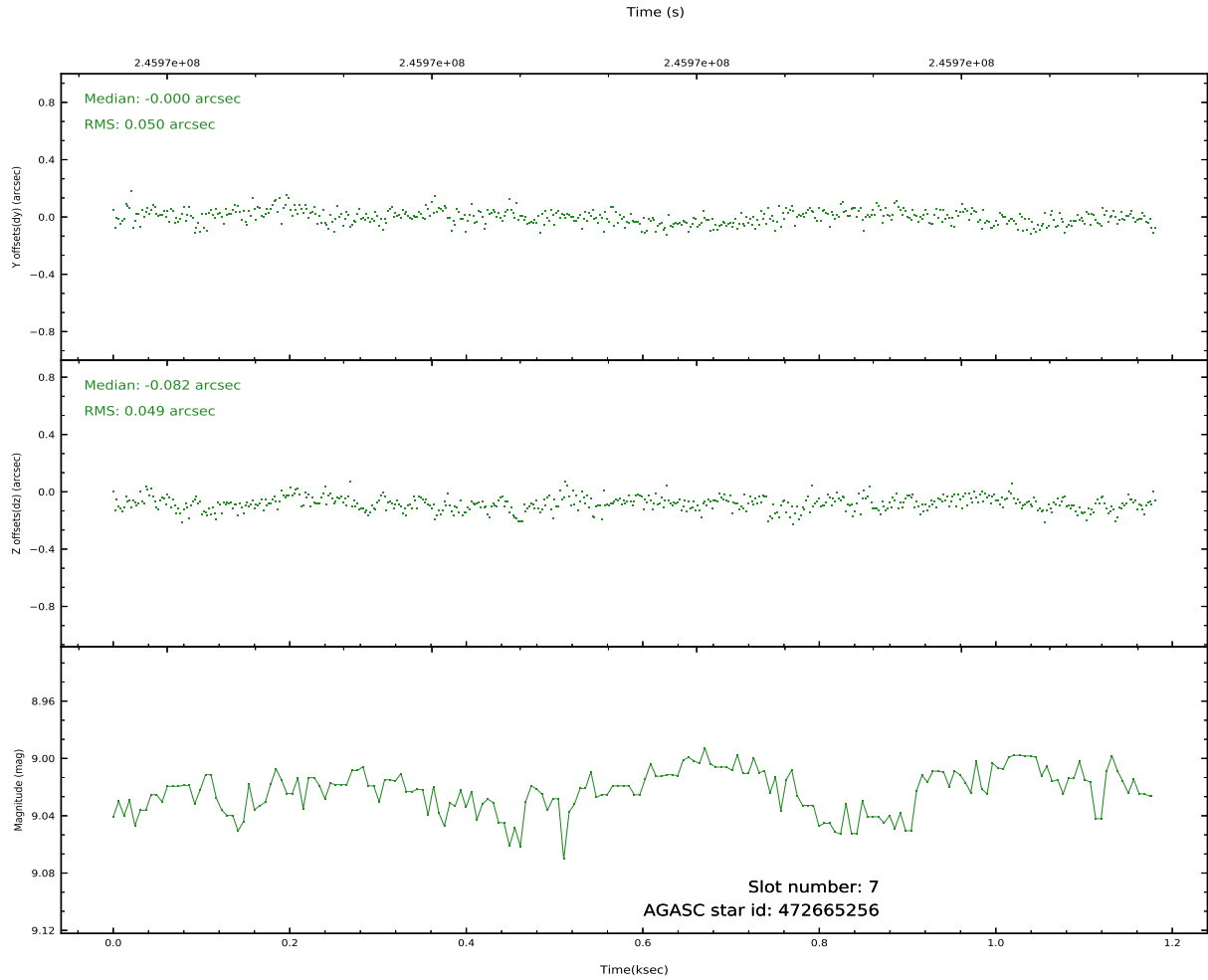
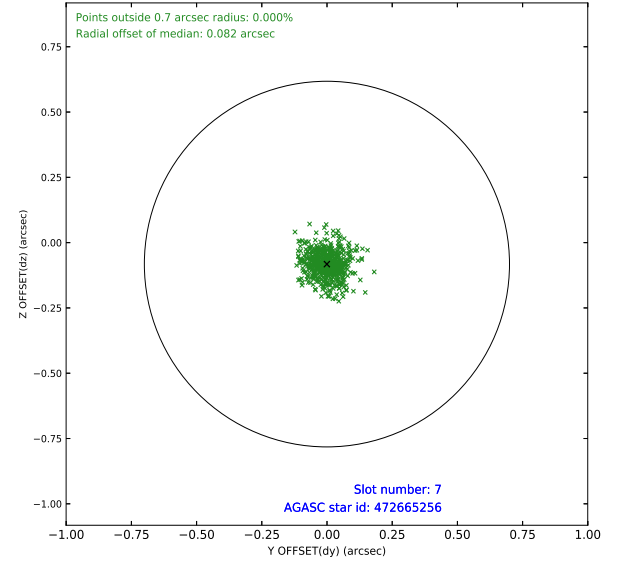
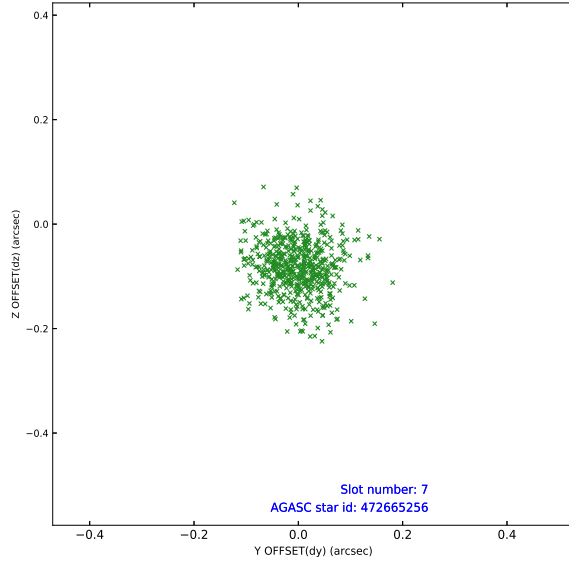
### 2.4.3 Slot 5



## 2.4.4 Slot 6

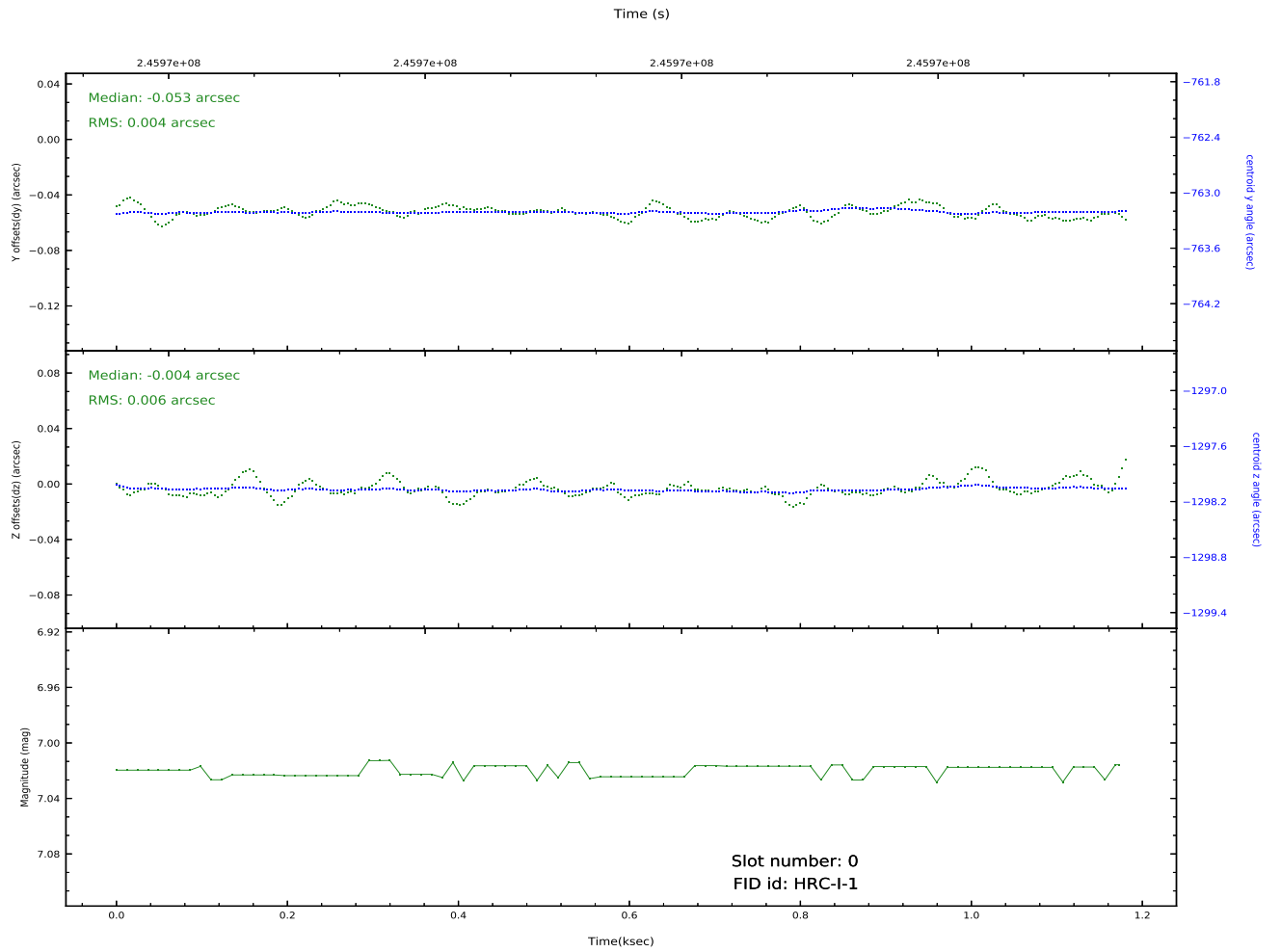
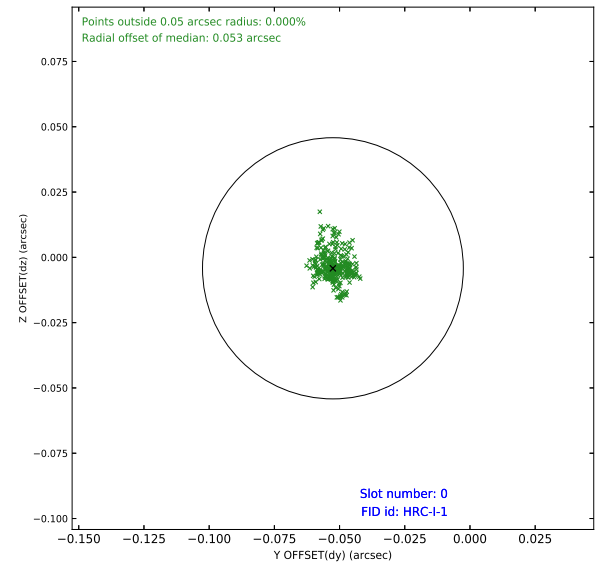
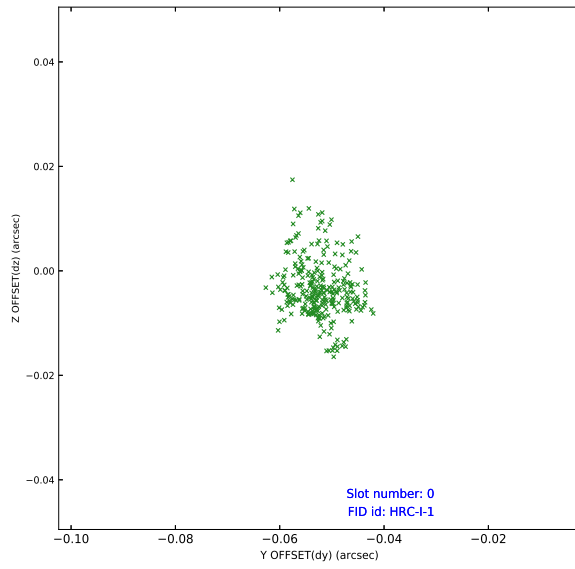


## 2.4.5 Slot 7

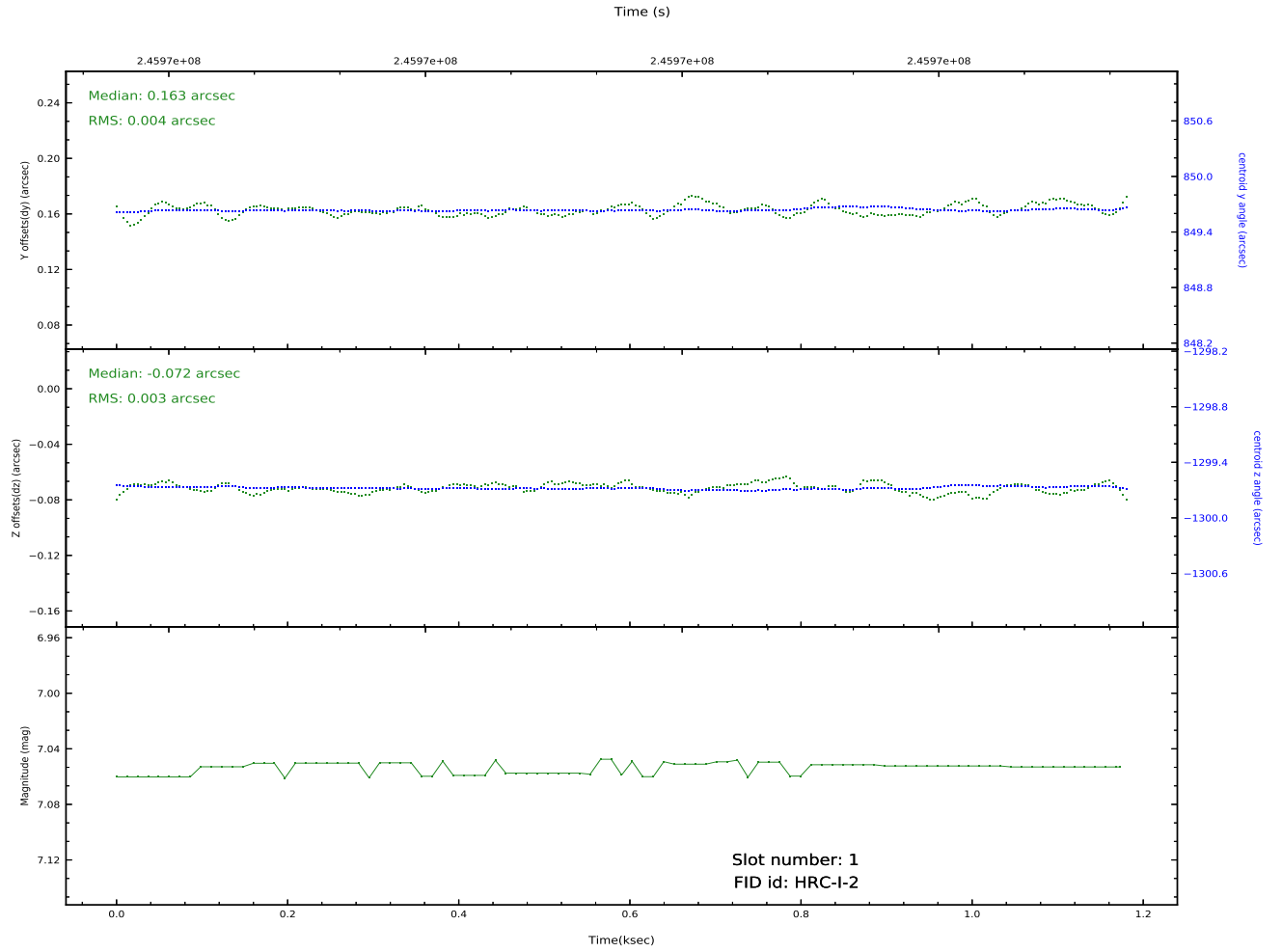
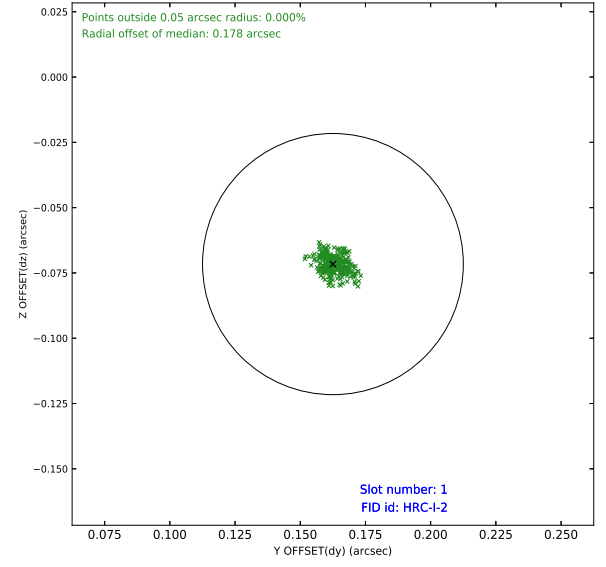
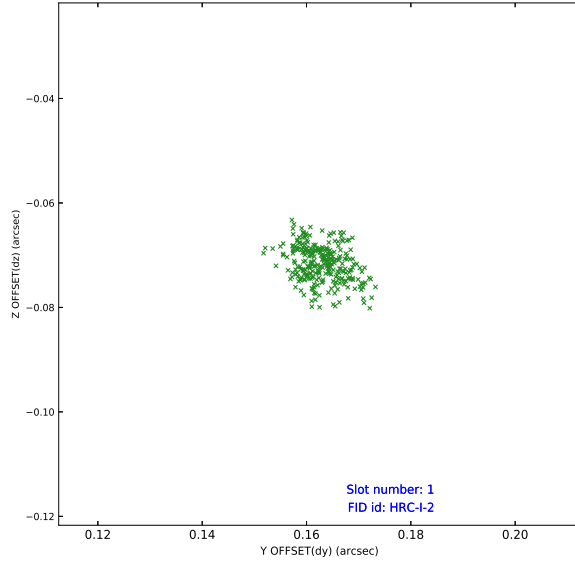


## 2.5 FID Slots

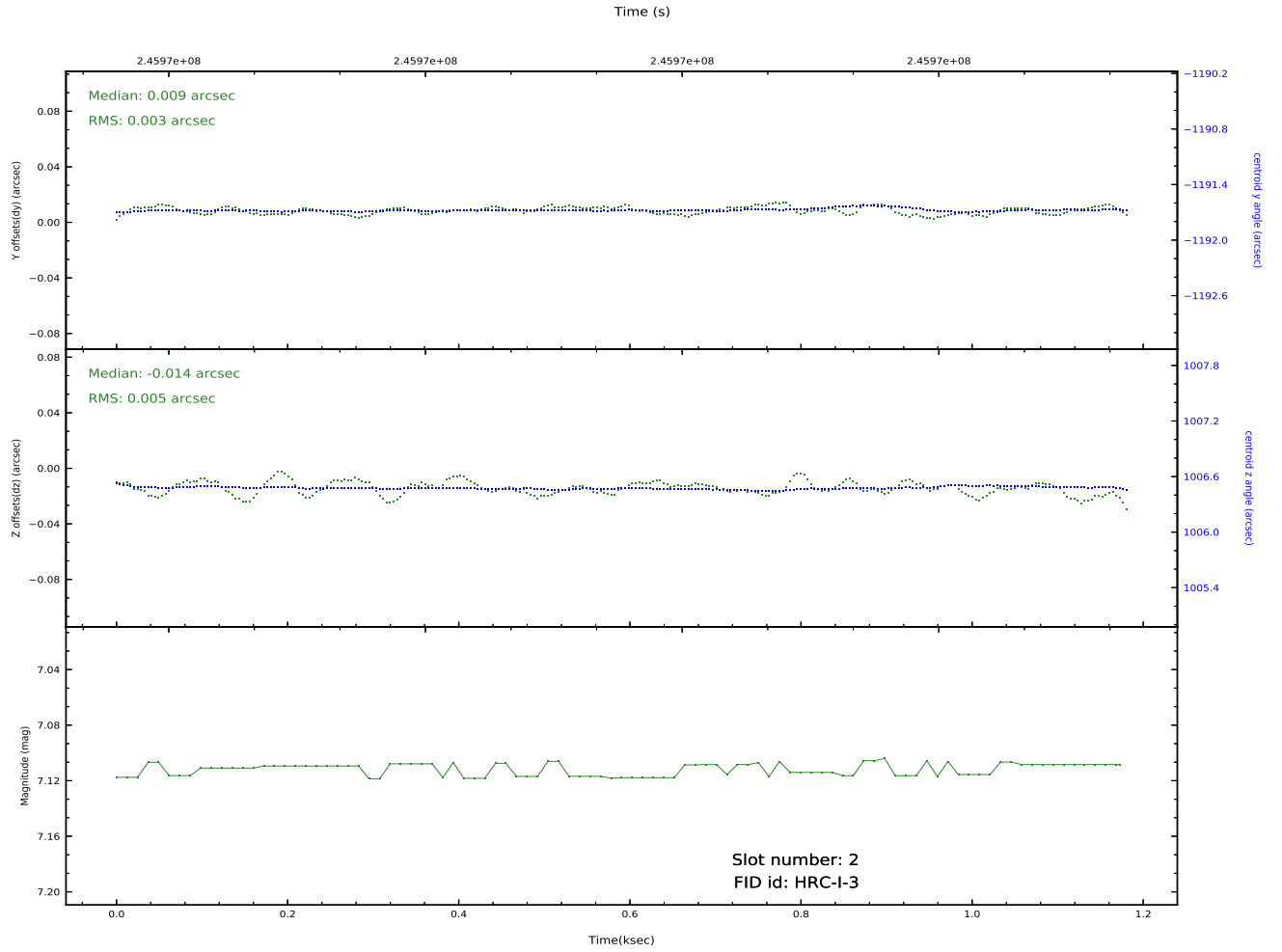
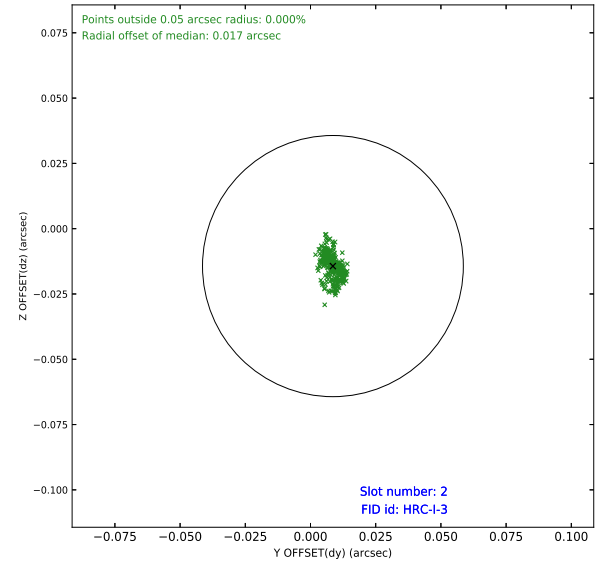
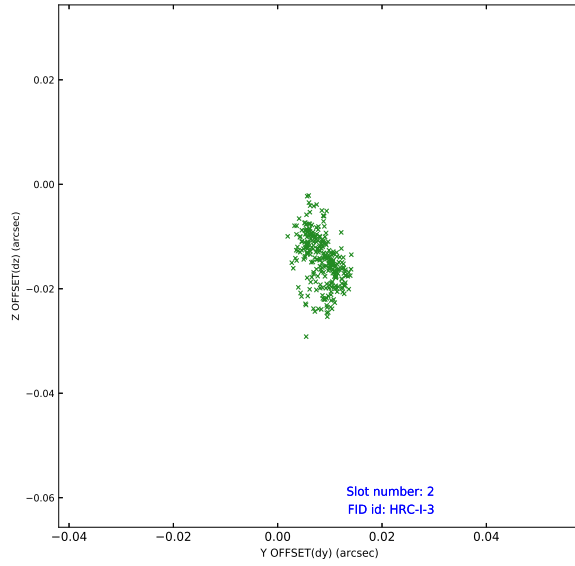
### 2.5.1 Slot 0



## 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)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.182081

### A.2 Comments