

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 20671 - L2 Version 2  
Chandra X-Ray Center

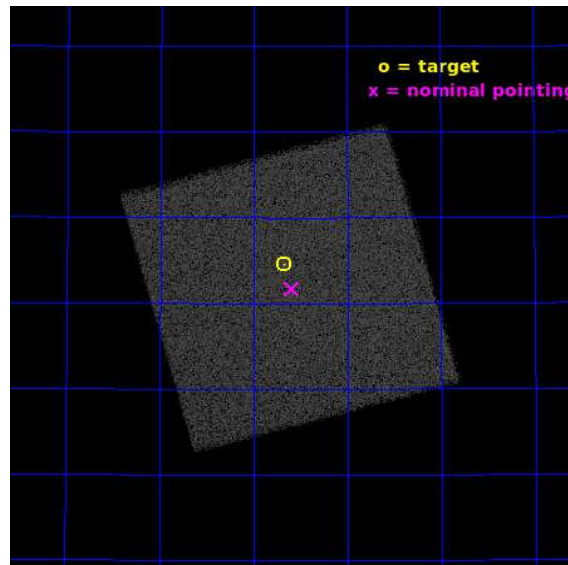
L2 Processing Date : Oct 27 2020

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# 1 Front

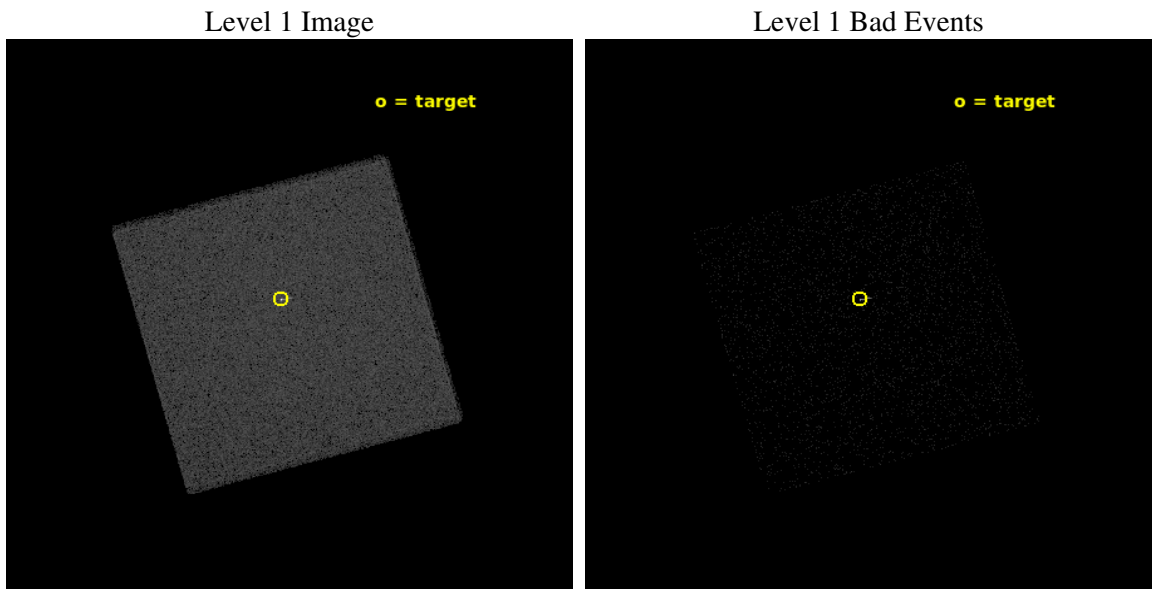
seq_num	291382	Sequence number
obs_id	20671	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14801292181	Nominal RA [deg]
dec_nom	45.695182378281	Nominal Dec [deg]
roll_nom	209.51688357611	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1175.9313200712	[s]
livetime	1159.4585460477	Ontime multiplied by DTCOR
l2events	143868	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	10.9.2	Processing system revision	ontime	1175.9313200712	[s]
caldsver	4.9.3	&#160	l1events	241572	Number of level 1 events
date	2020-10-27T19:26:25	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

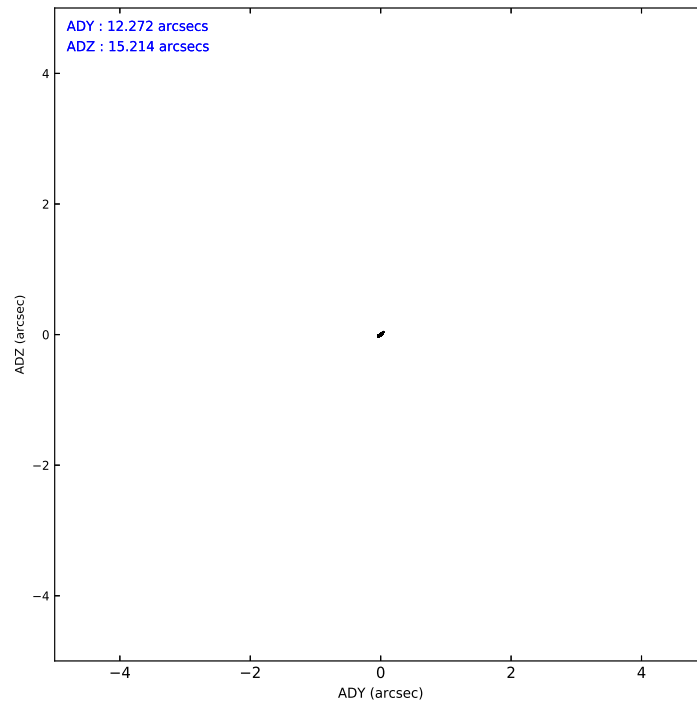
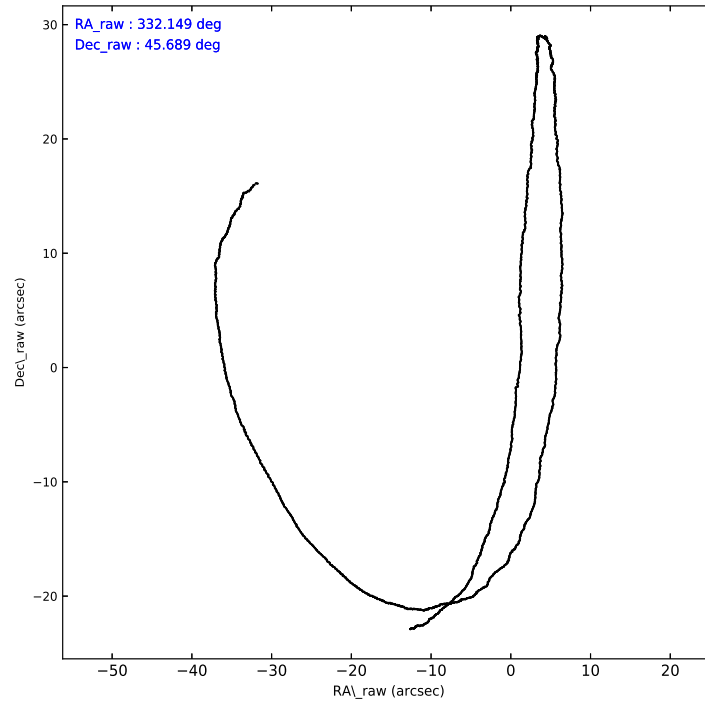
	<b>segment 0</b>
level 1 events	241572
rejected events	53001
rejected %	21%

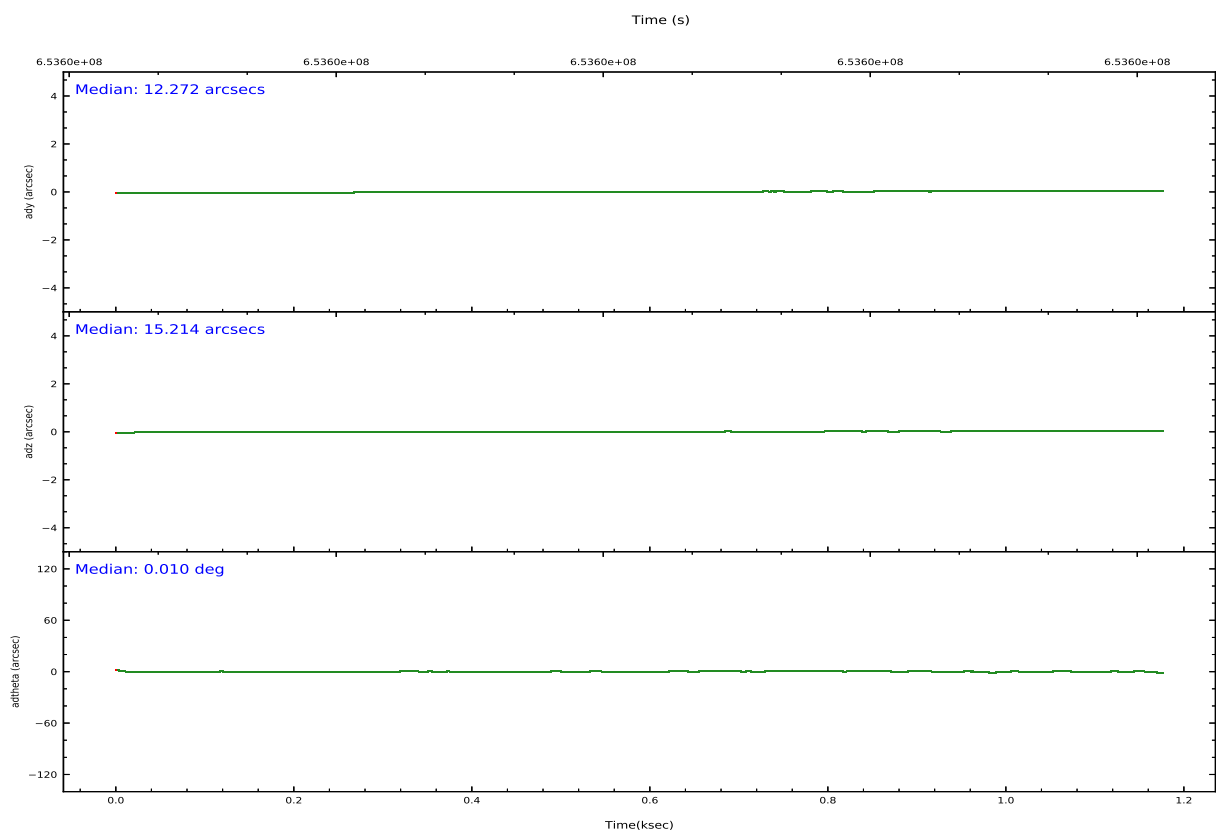
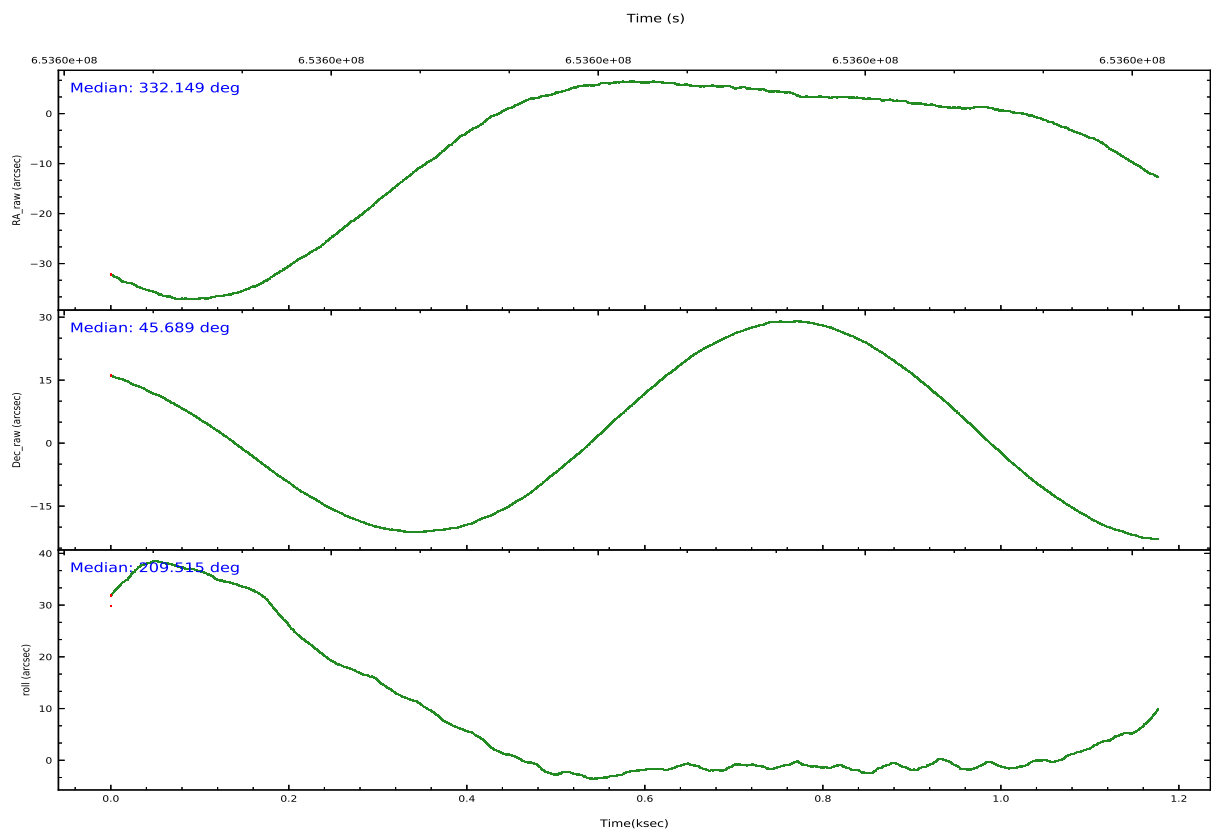
## 2.2 Compared Parameters

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	332.165910	332.14801292181
[deg] Pointing Dec	45.713711	45.695182378281
[deg] Pointing Roll	209.610113	209.51688357611
[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)	653603730.184000	653603354.12893
Observation start date	2018-09-17T20:34:21	2018-09-17T20:29:14
[s] Observation end time (MET)	653604730.184000	653604863.95402
Observation end date	2018-09-17T20:51:01	2018-09-17T20:54:23

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

## 2.3 Aspect





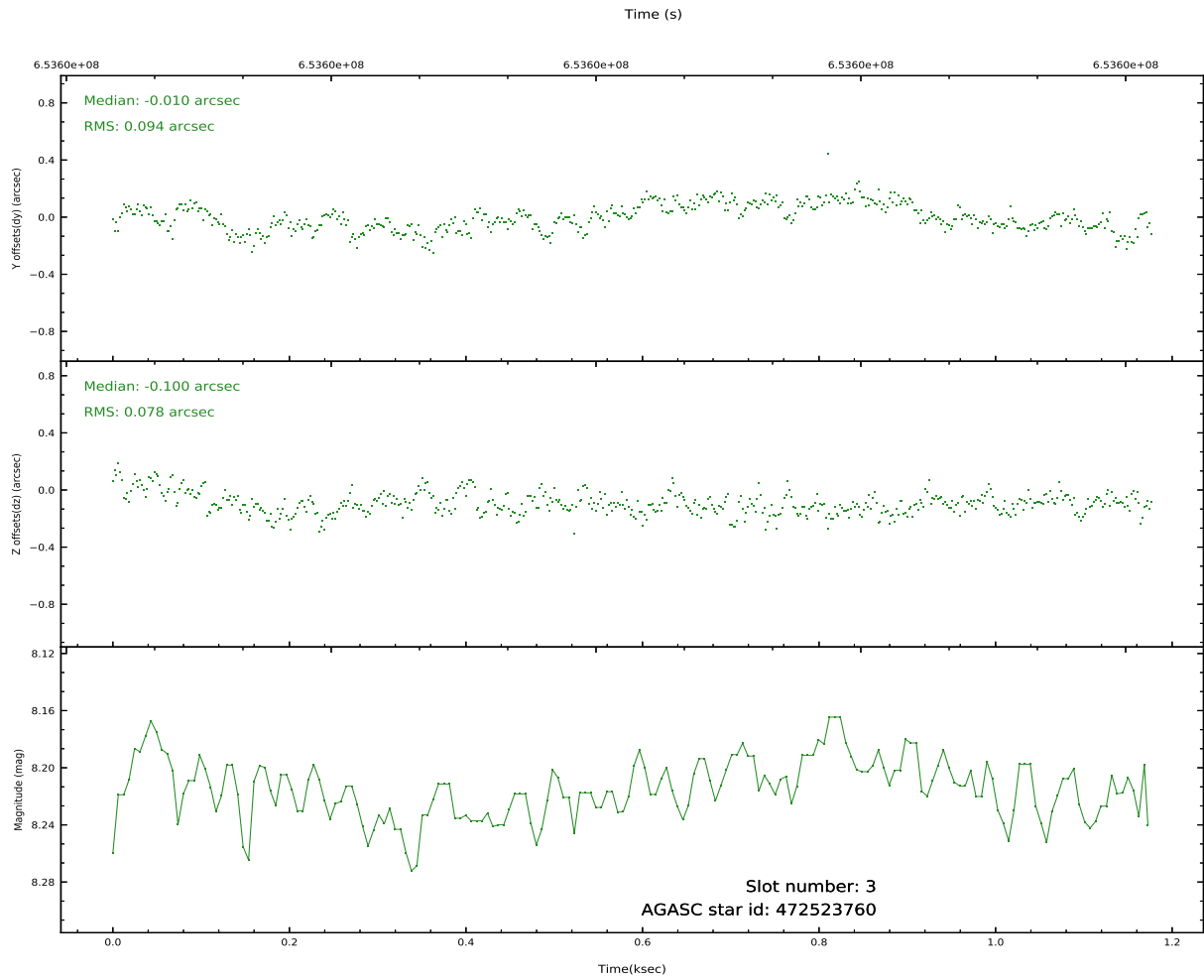
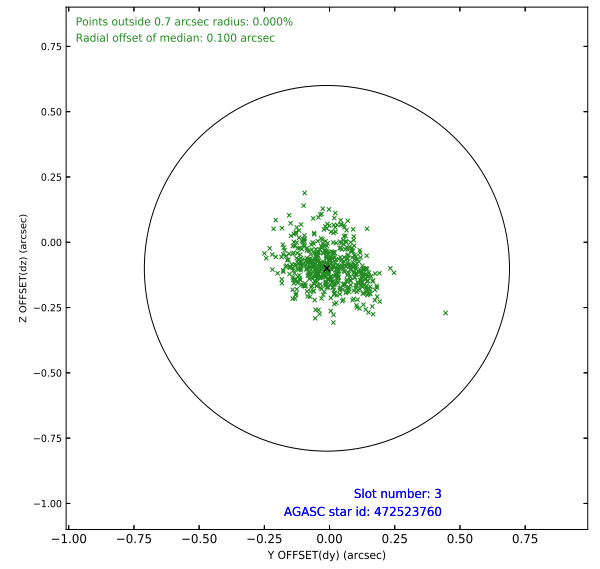
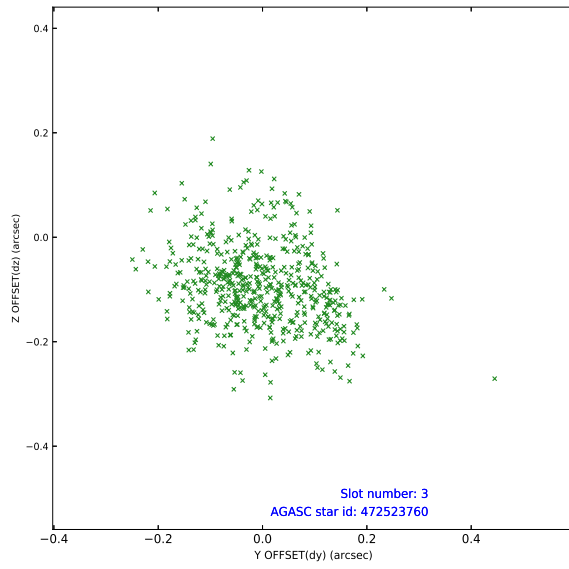
Slot Statistics

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	288	1.000	-0.079	0.015	0.008	0.018	0.000000	0.000000	-768.10	-1303
1	FID		HRC-I-2	7.04	287	1.000	0.296	-0.195	0.008	0.012	0.000000	0.000000	842.23	-1309
2	FID		HRC-I-3	7.09	288	1.000	-0.096	0.090	0.006	0.011	0.000000	0.000000	-1193.63	996
3	GUIDE	used	472523760	8.22	575	1.000	-0.010	-0.100	0.135	0.207	331.645363	45.403260	1693.64	317
4	GUIDE	used	472525528	6.64	575	1.000	-0.217	-0.029	0.120	0.200	331.551102	45.248694	2180.71	680
5	GUIDE	used	472651904	6.67	575	1.000	-0.021	0.068	0.122	0.205	332.170077	45.742257	-56.29	-84
6	GUIDE	used	472655152	9.40	574	1.000	0.065	0.073	0.203	0.319	332.504239	45.862991	-1004.45	-50
7	GUIDE	used	472665256	8.94	574	1.000	0.180	-0.010	0.152	0.272	332.808125	46.195041	-2252.82	-721

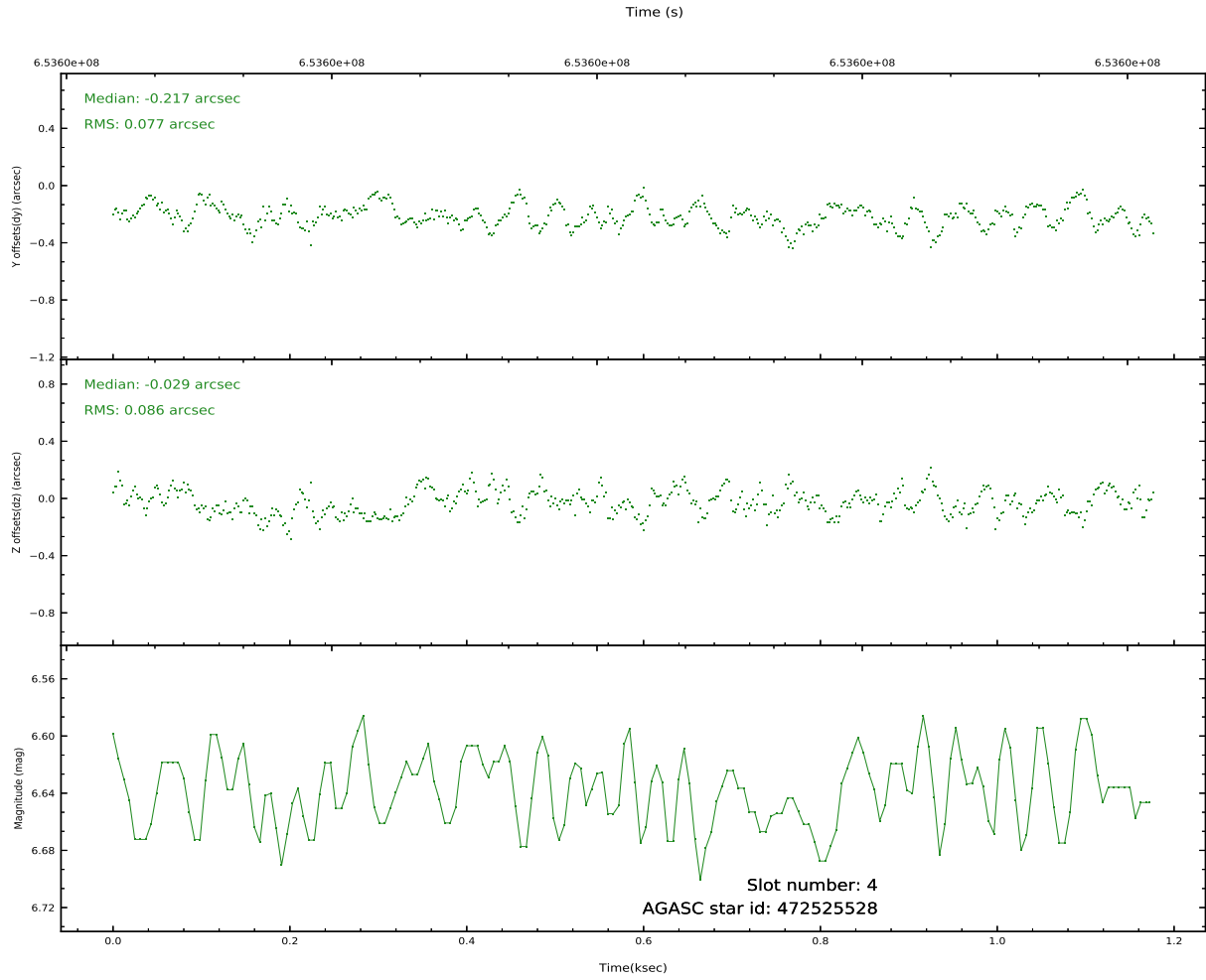
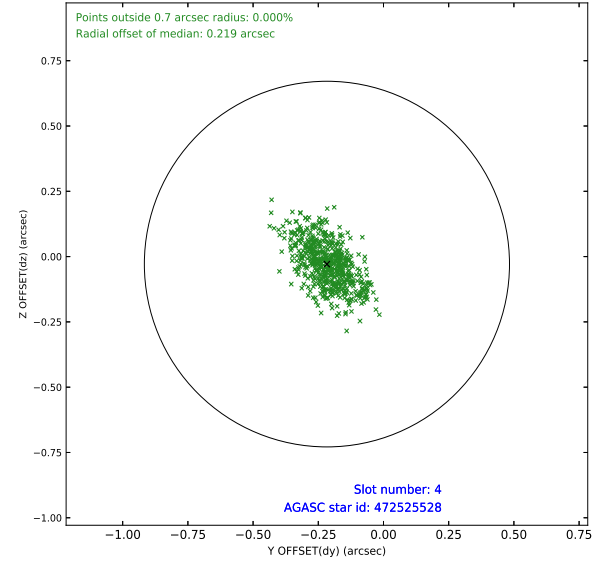
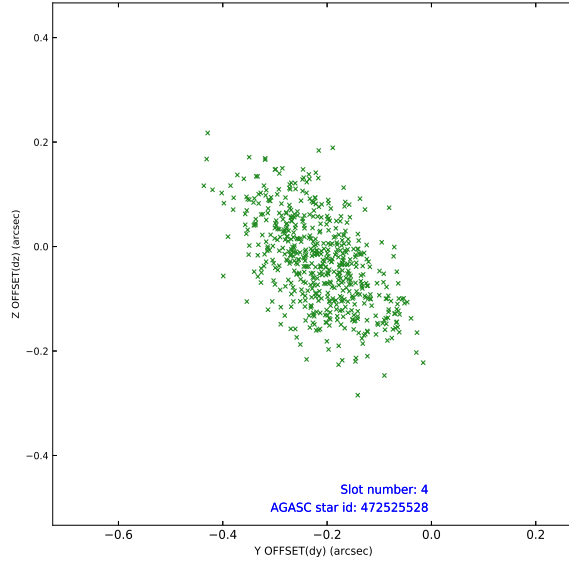


## 2.4 Star Slots

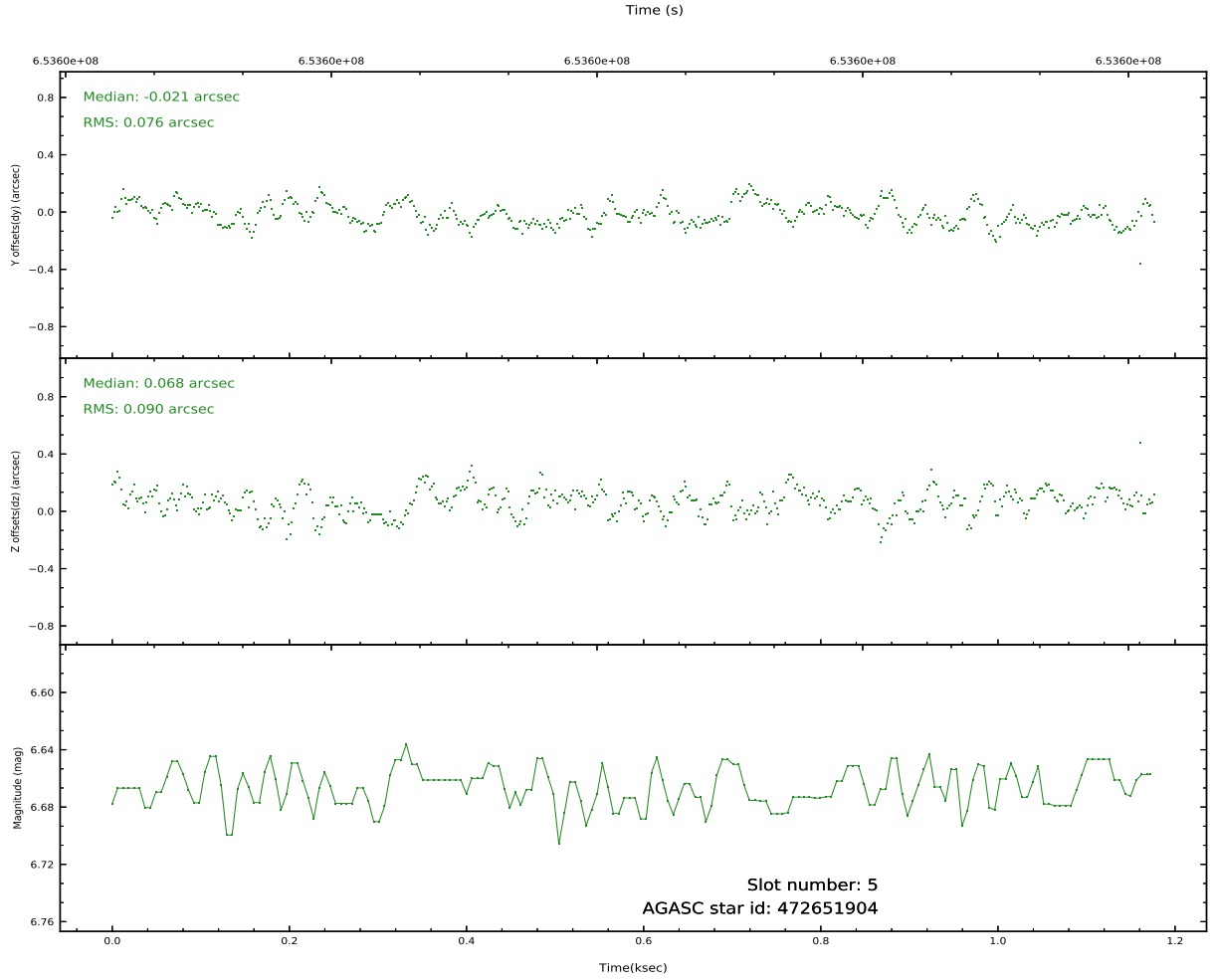
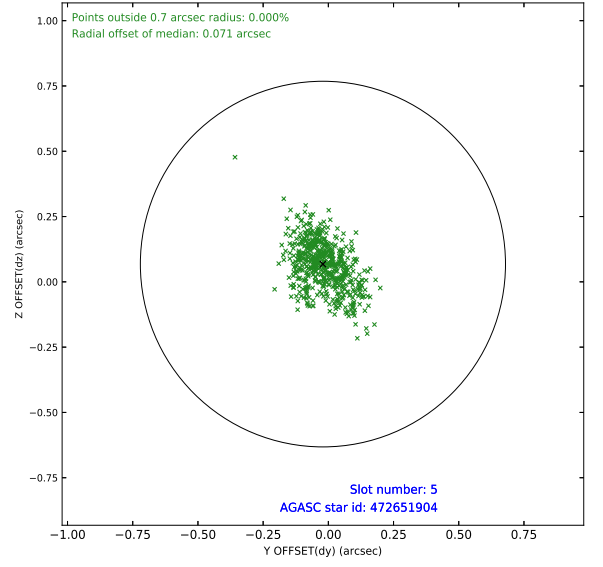
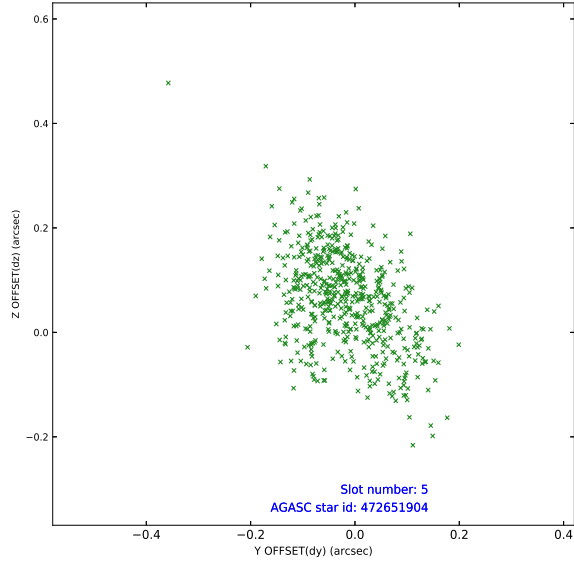
### 2.4.1 Slot 3



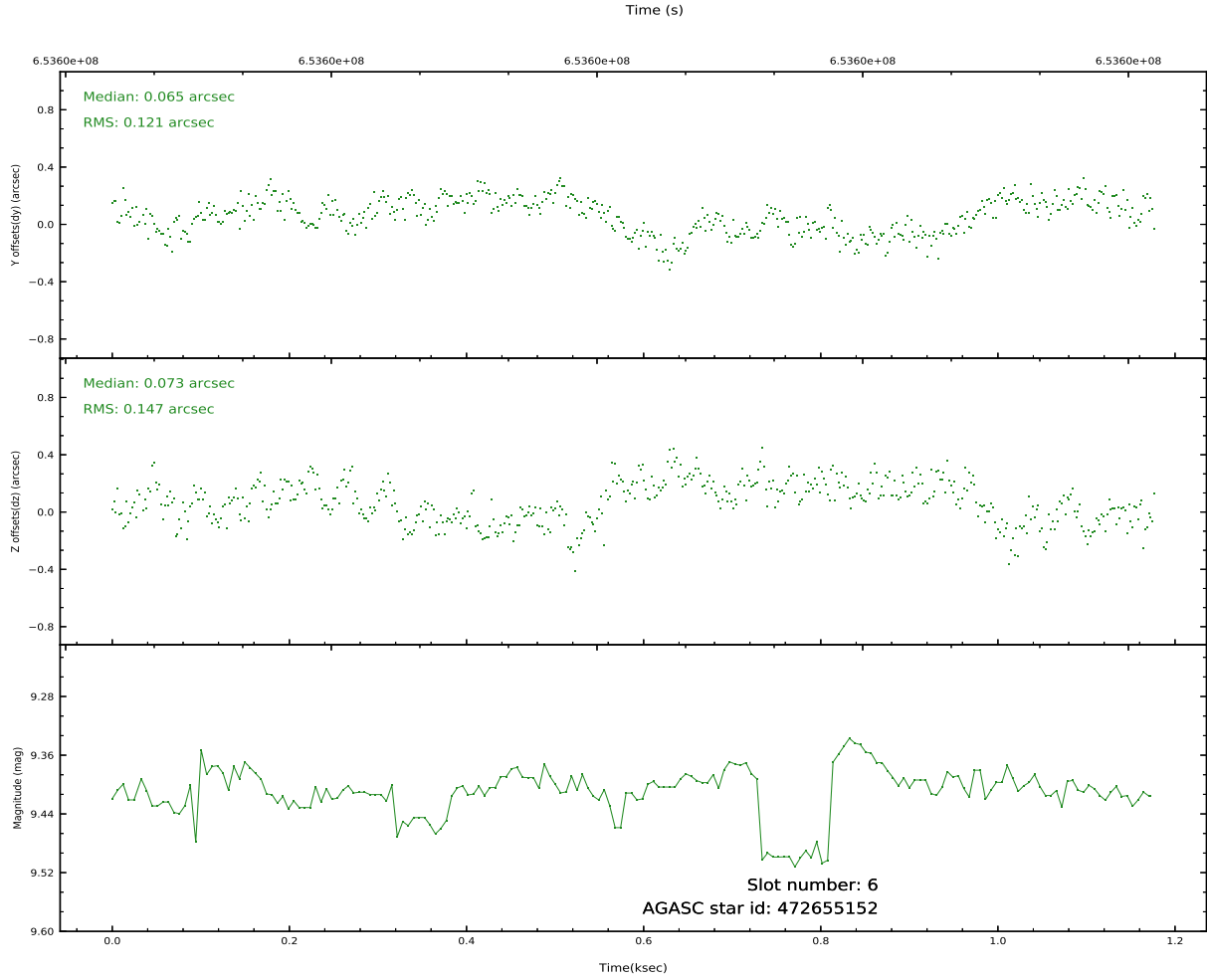
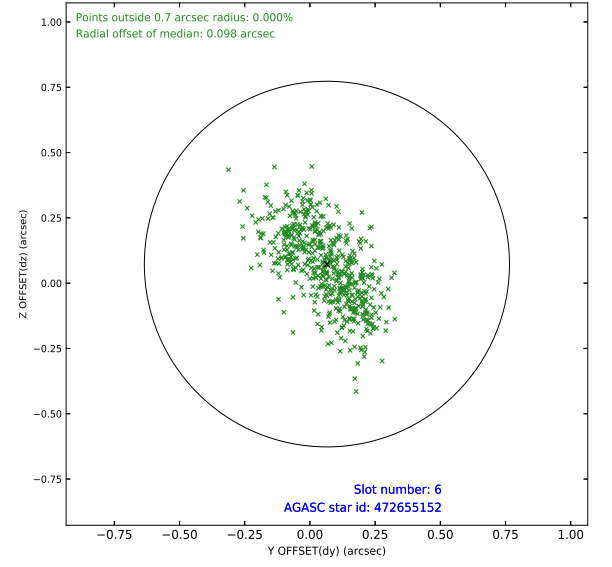
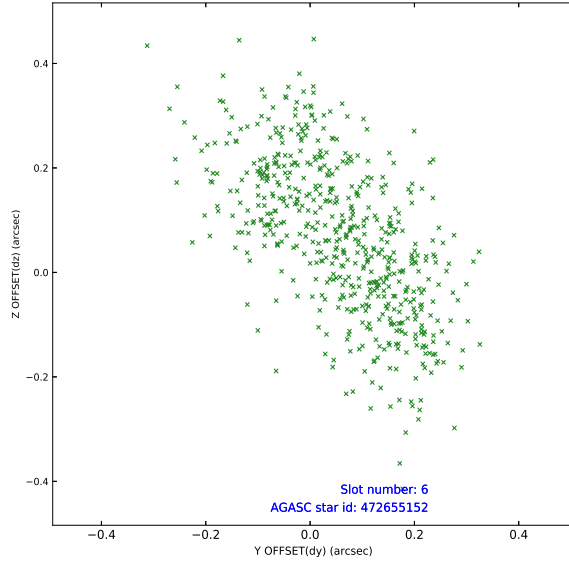
## 2.4.2 Slot 4



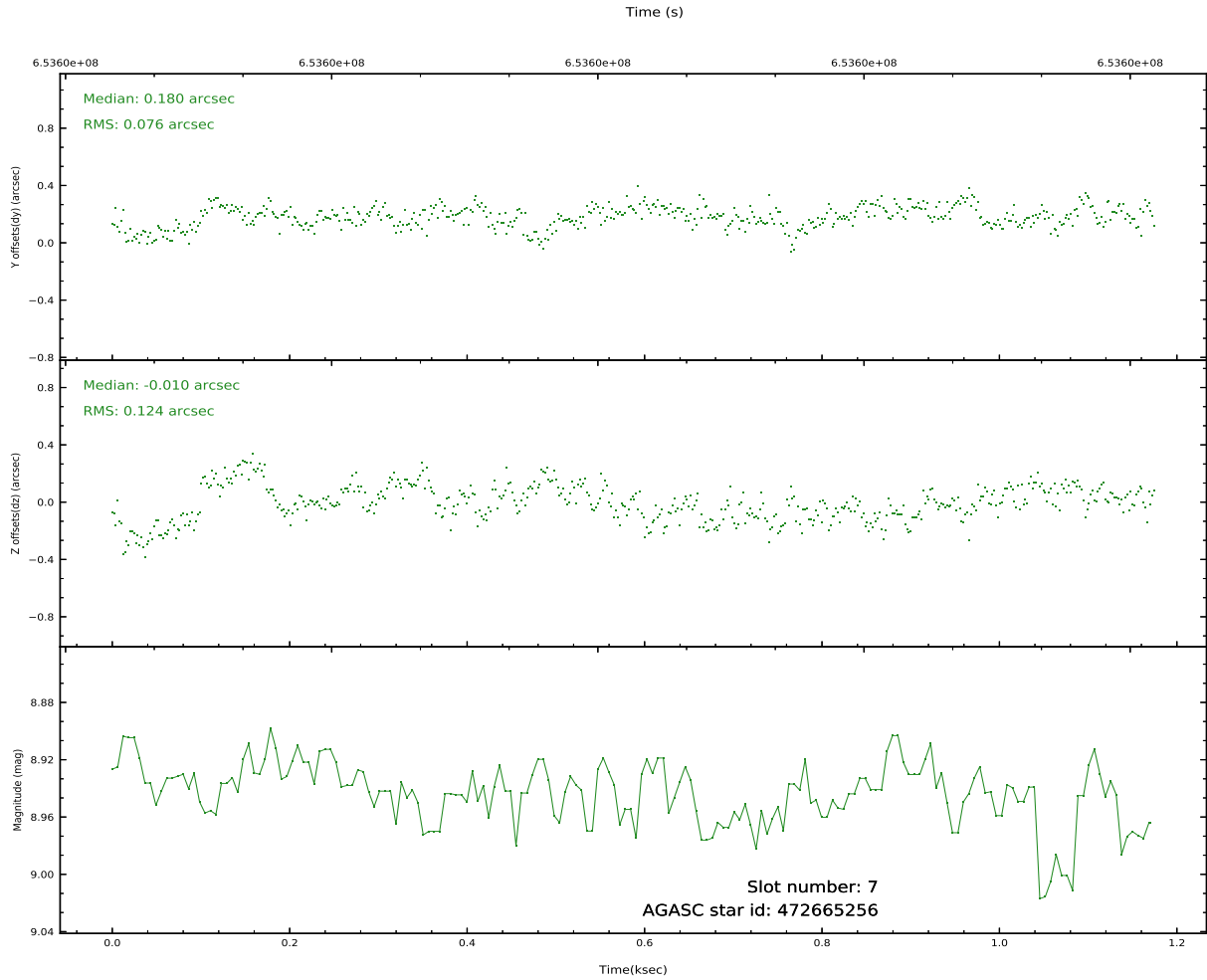
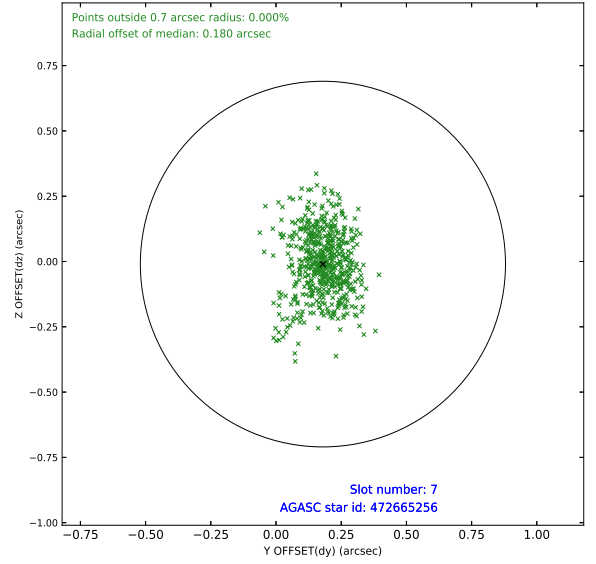
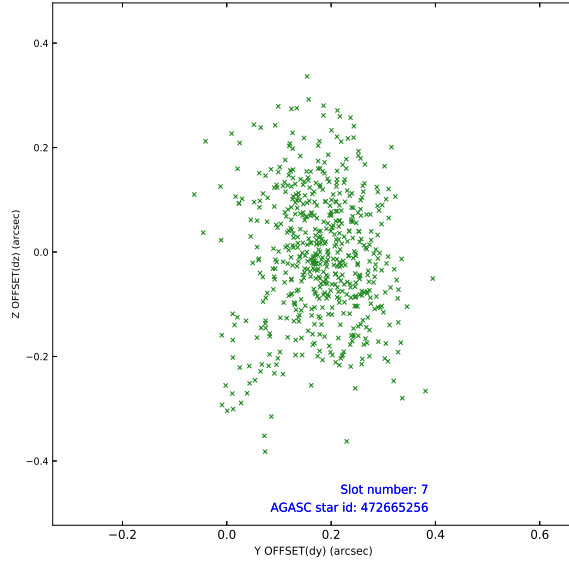
### 2.4.3 Slot 5



## 2.4.4 Slot 6

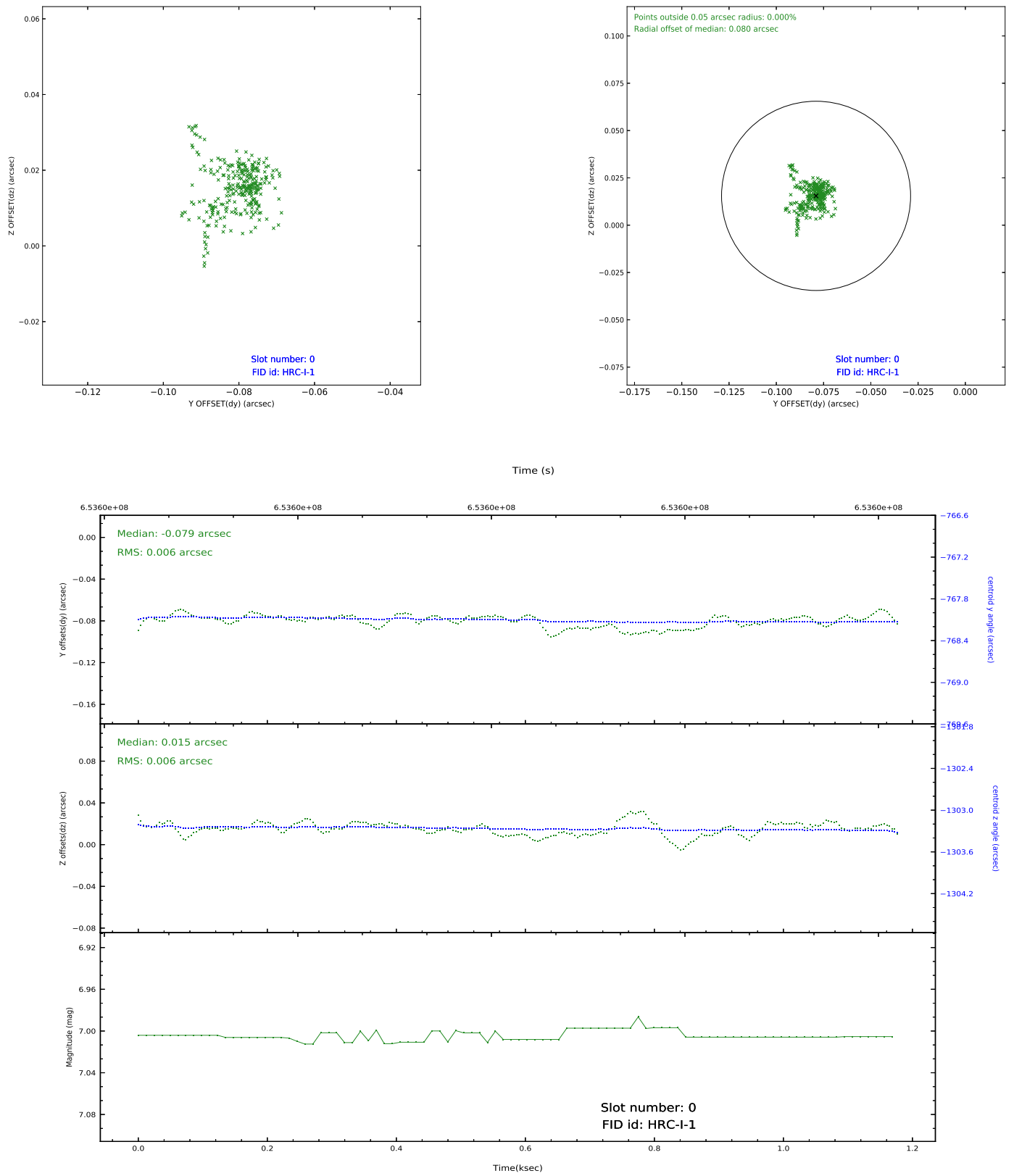


## 2.4.5 Slot 7

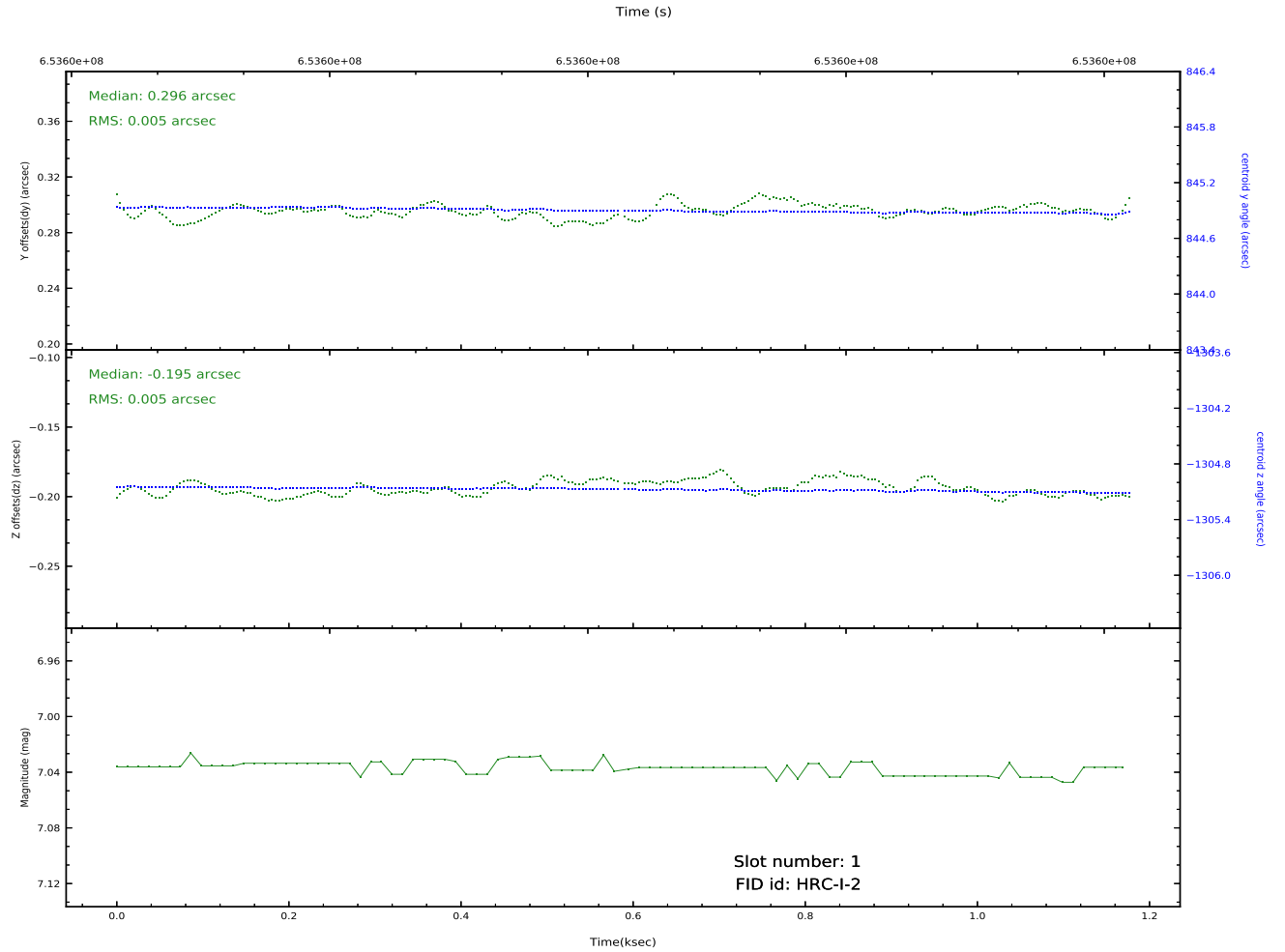
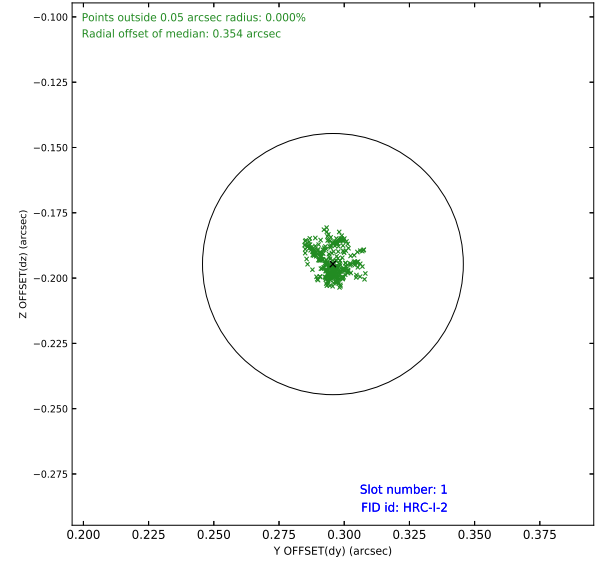
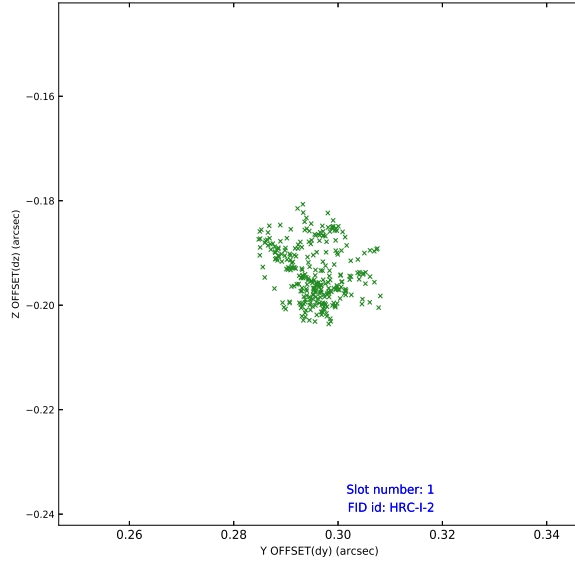


## 2.5 FID Slots

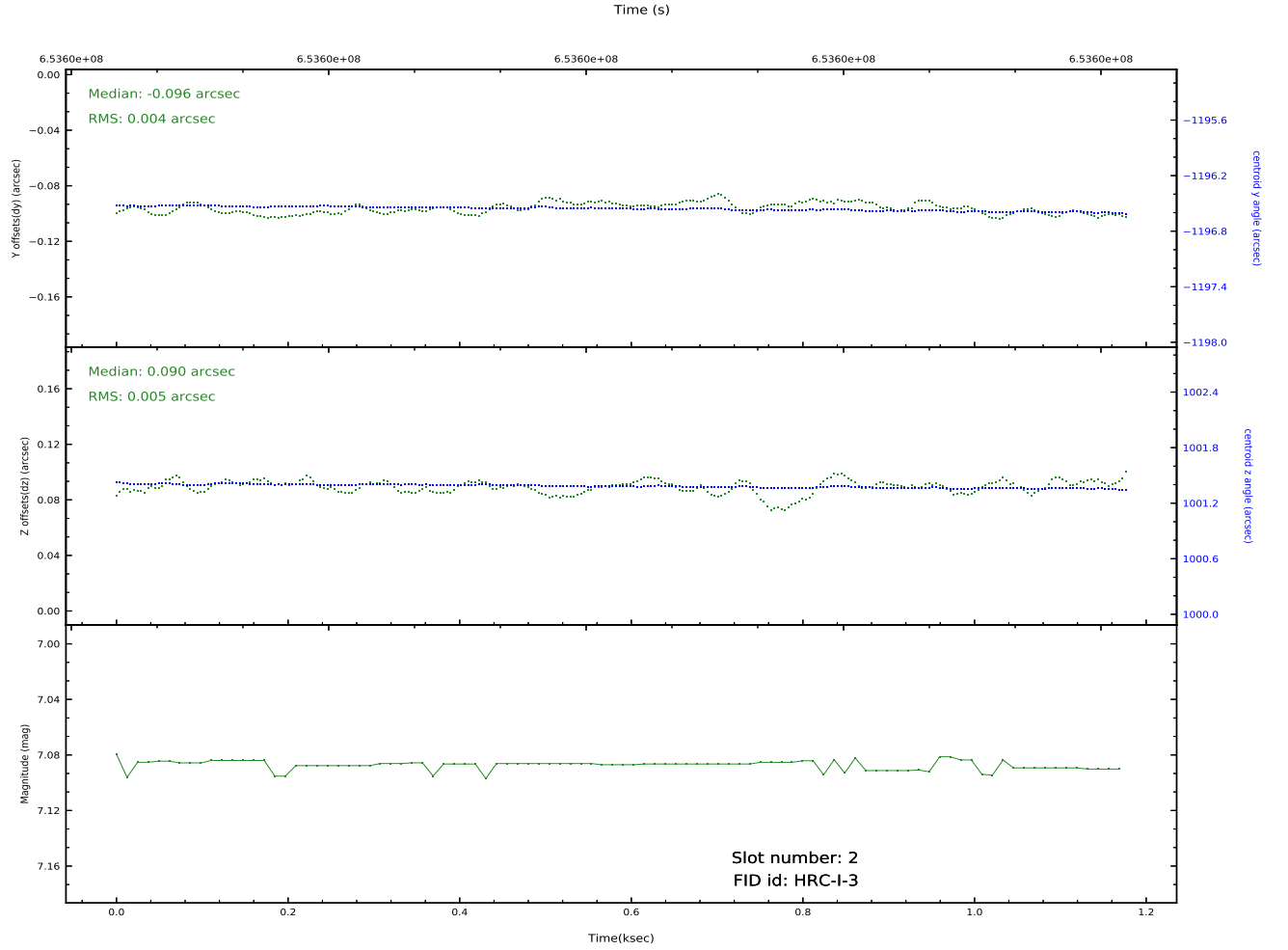
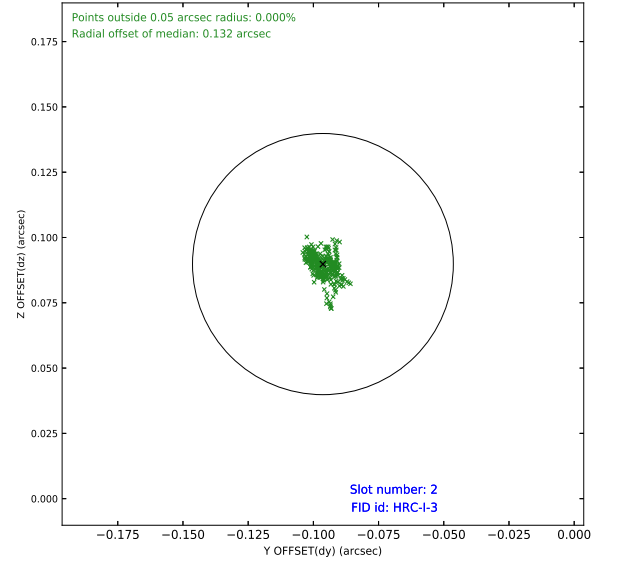
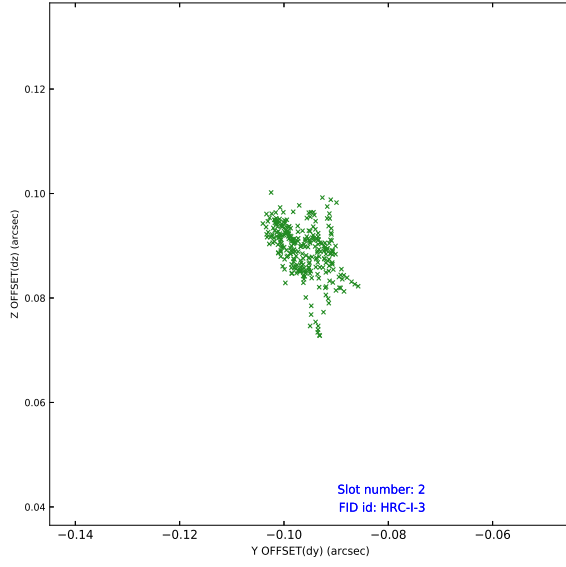
### 2.5.1 Slot 0



## 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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.175931319952

### A.2 Comments