

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 20987 - L2 Version 2  
Chandra X-Ray Center

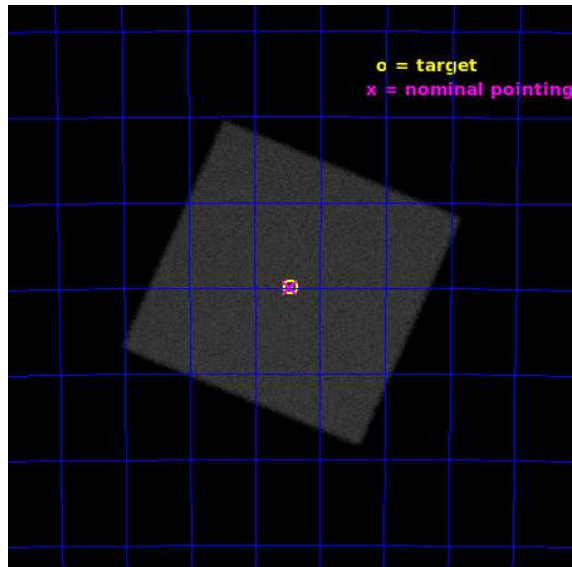
L2 Processing Date : Oct 25 2020

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# 1 Front

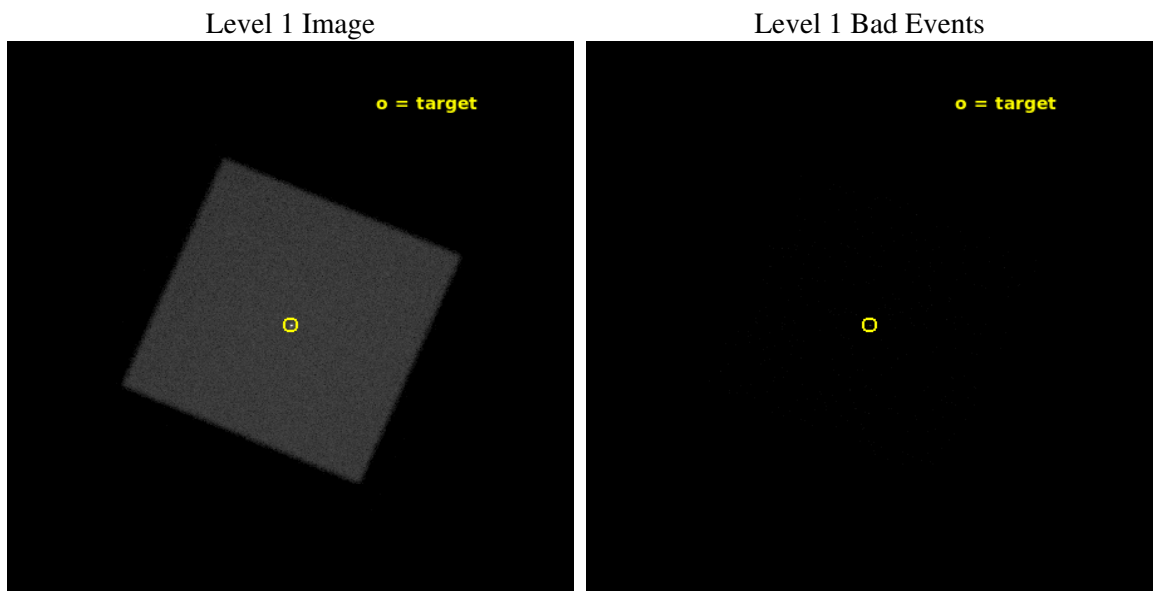
seq_num	201205	Sequence number
obs_id	20987	Observation id
title	Alpha Centauri: Mind the Gap!	Proposal title
observer	THOMAS AYRES	Principal investigator
object	ALPHA CENTAURI	Source name
ra_targ	219.861667	Observer's specified target RA [deg]
dec_targ	-60.831944	Observer's specified target Dec [deg]
ra_nom	219.86514240745	Nominal RA [deg]
dec_nom	-60.833049785693	Nominal Dec [deg]
roll_nom	338.2772050602	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5180.3503062725	[s]
livetime	5117.4736774027	Ontime multiplied by DTCOR
l2events	540495	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5180.3503062725	[s]
caldbver	4.9.3	&#160	l1events	752622	Number of level 1 events
date	2020-10-25T23:25:34	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	752622
rejected events	96879
rejected %	12%

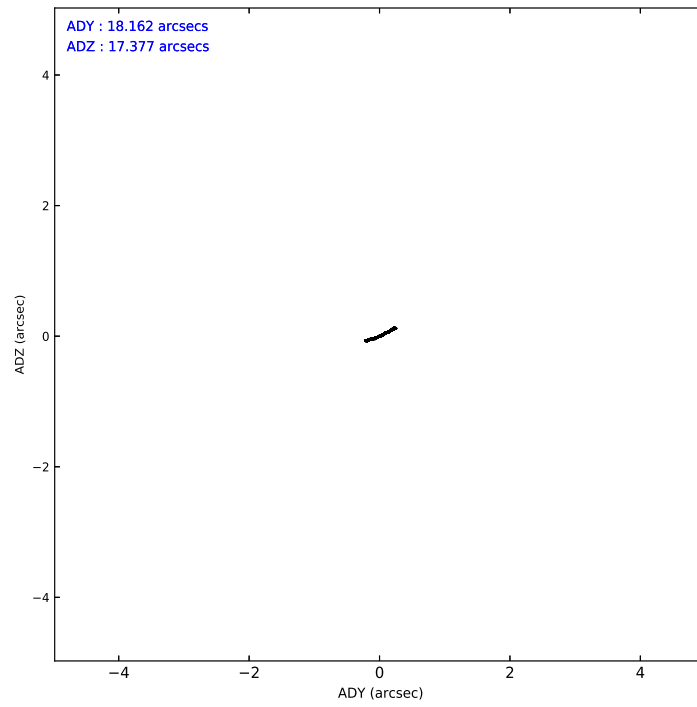
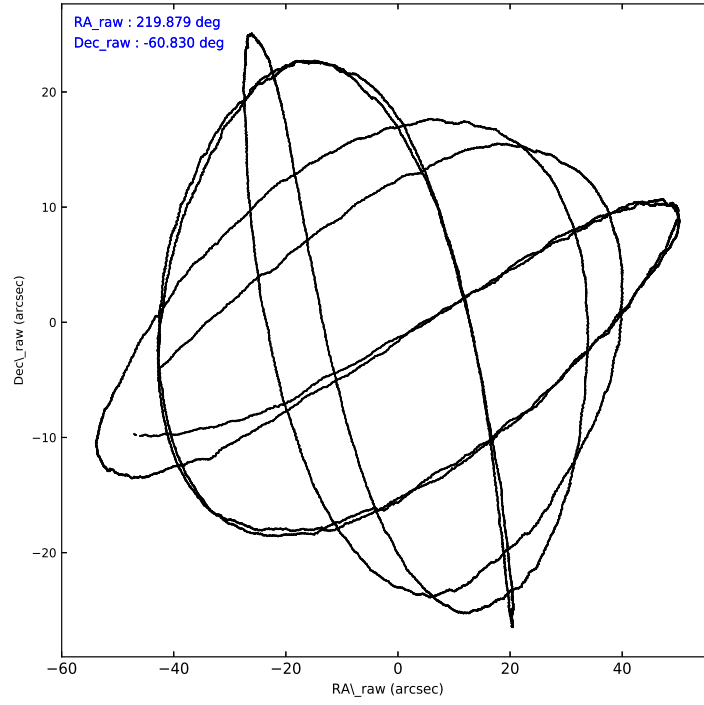


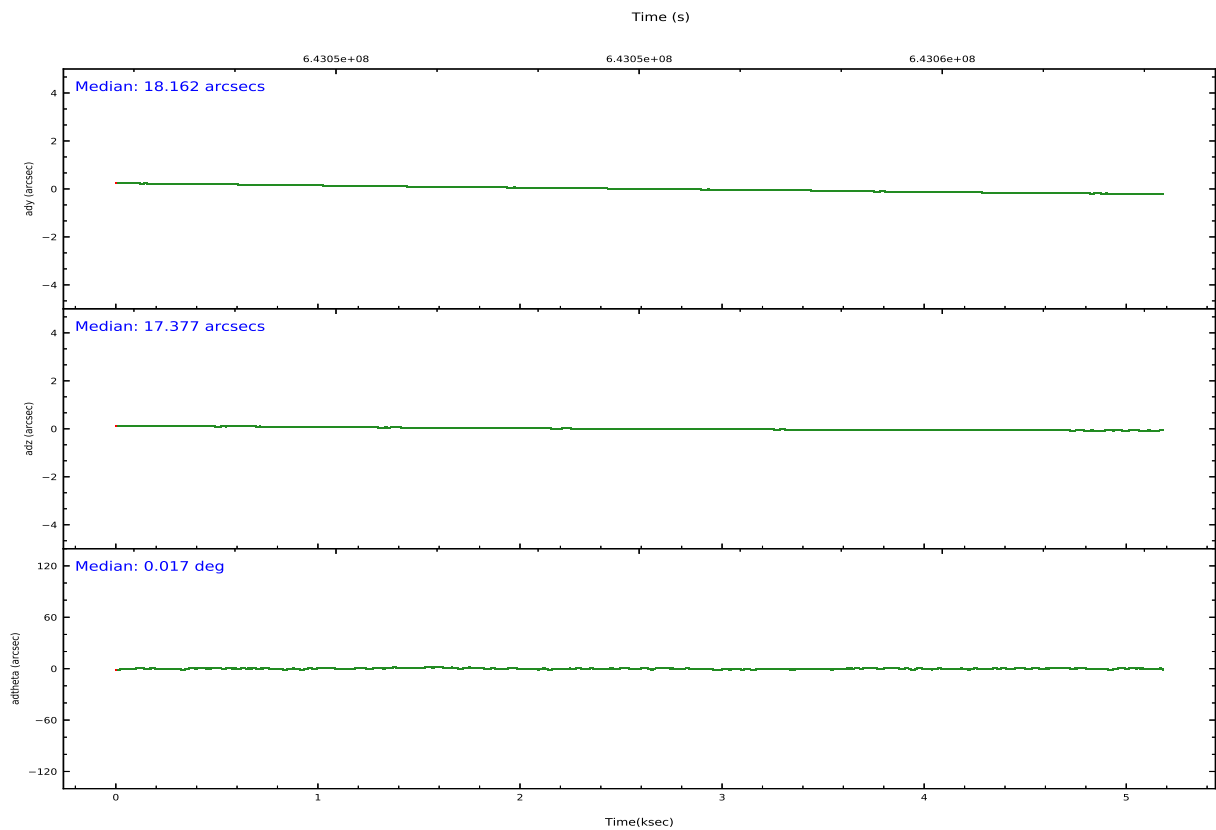
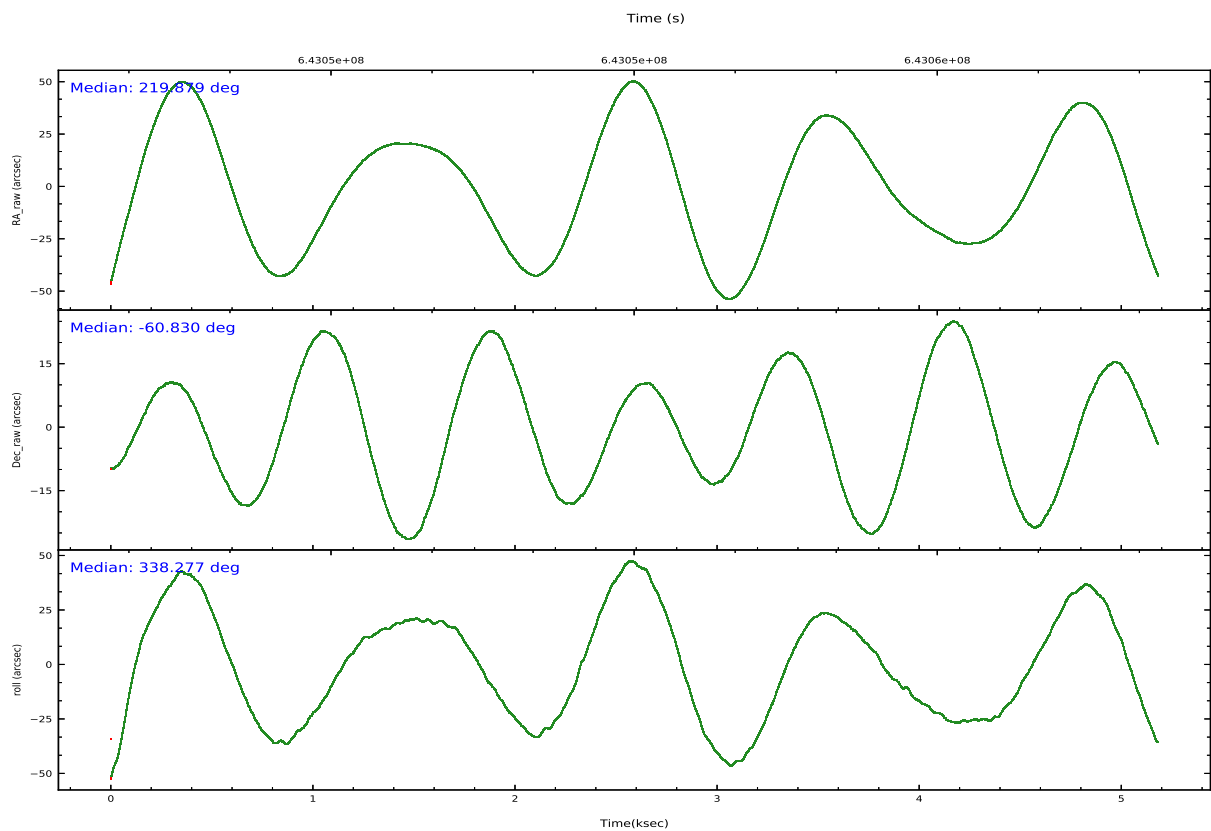
## 2.2 Compared Parameters

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	219.823132	219.86514240745
[deg] Pointing Dec	-60.834960	-60.833049785693
[deg] Pointing Roll	338.343513	338.2772050602
[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)	643051592.184000	643050664.85358
Observation start date	2018-05-18T17:25:23	2018-05-18T17:11:04
[s] Observation end time (MET)	643056592.184000	643057992.06651
Observation end date	2018-05-18T18:48:43	2018-05-18T19:13:12

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

## 2.3 Aspect



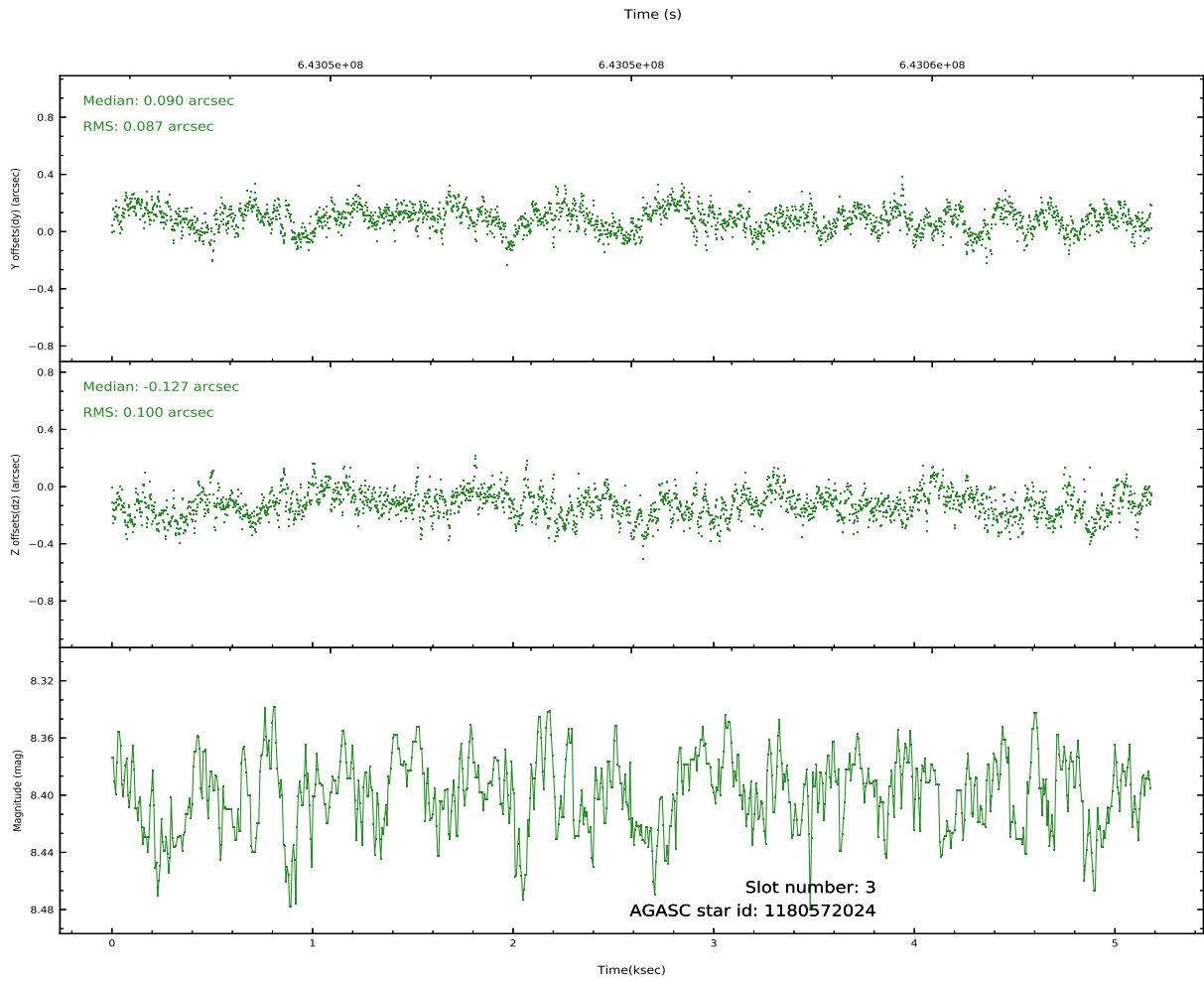
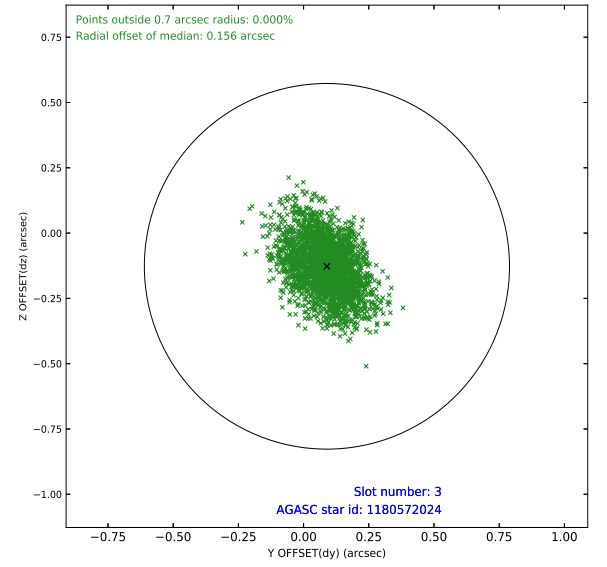
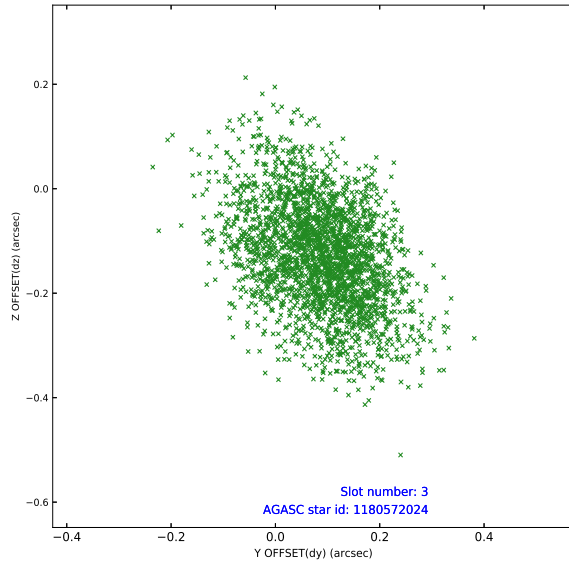


Slot Statistics

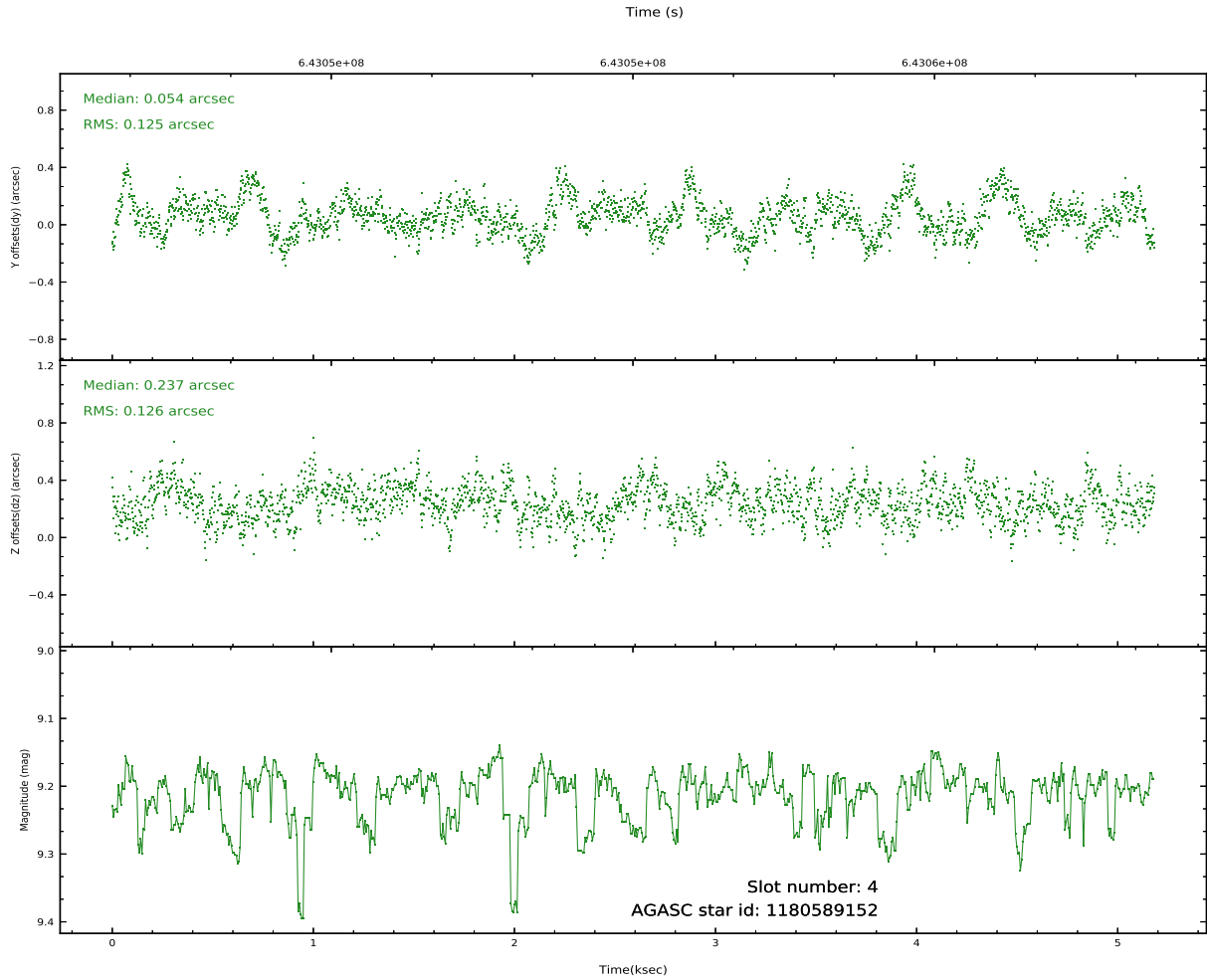
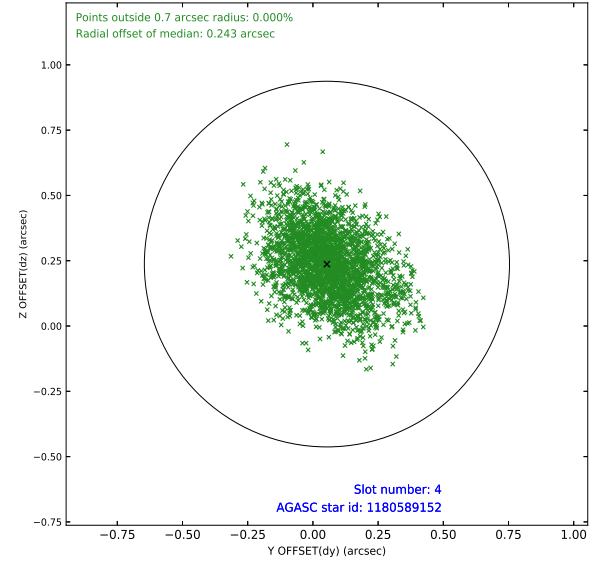
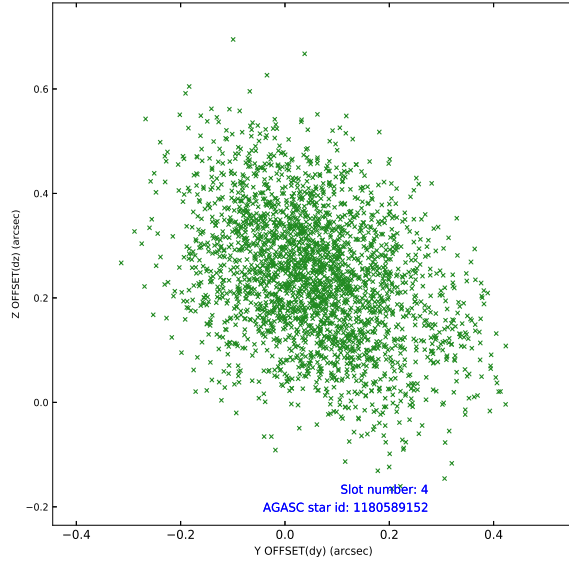
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.01	1263	1.000	0.113	-0.003	0.010	0.015	0.000000	0.000000	-774.15	-1305
1	FID		HRC-I-3	7.10	1265	1.000	-0.199	0.020	0.009	0.017	0.000000	0.000000	-1203.21	998
2	FID		HRC-I-4	7.03	1265	1.000	0.201	-0.106	0.011	0.023	0.000000	0.000000	1268.13	997
3	GUIDE	used	1180572024	8.40	2529	1.000	0.090	-0.127	0.140	0.234	220.930377	-60.981487	1997.31	207
4	GUIDE	used	1180589152	9.21	2528	1.000	0.054	0.237	0.190	0.312	219.760705	-61.382926	628.41	-1873
5	GUIDE	used	1180606544	9.45	2523	1.000	0.151	0.070	0.204	0.346	218.967988	-60.174357	-2298.09	1634
6	GUIDE	used	1180612104	8.96	2526	1.000	-0.167	-0.041	0.163	0.274	220.502279	-60.631704	845.02	1117
7	GUIDE	used	1180585720	6.81	2528	1.000	-0.123	-0.137	0.116	0.198	218.874235	-60.641928	-1808.78	16

## 2.4 Star Slots

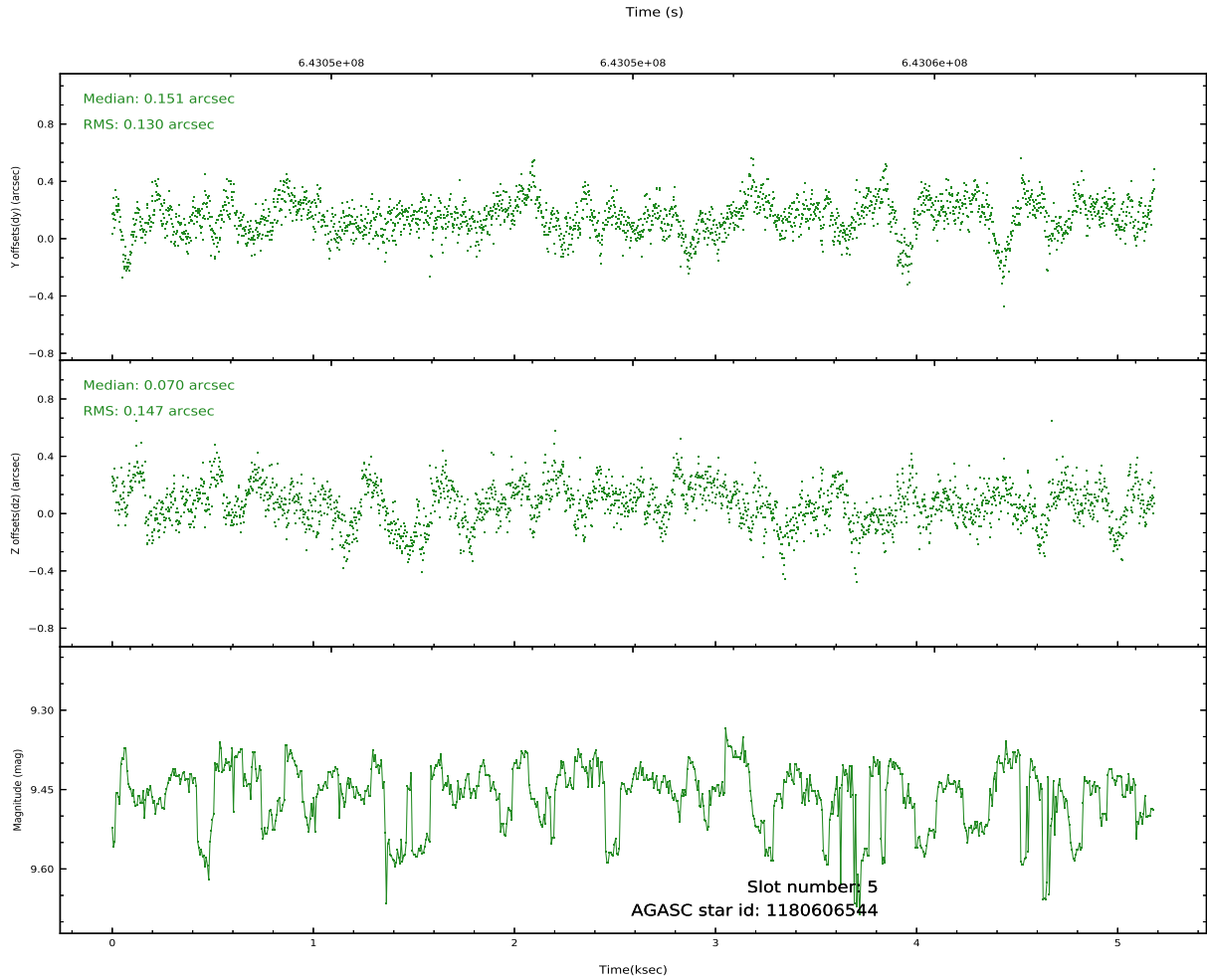
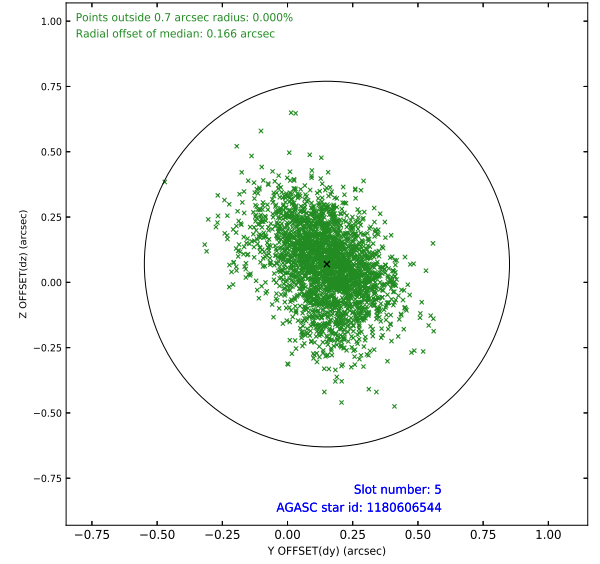
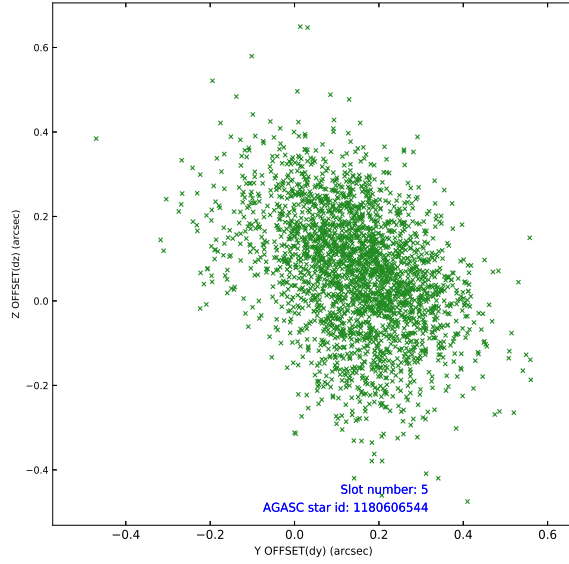
### 2.4.1 Slot 3



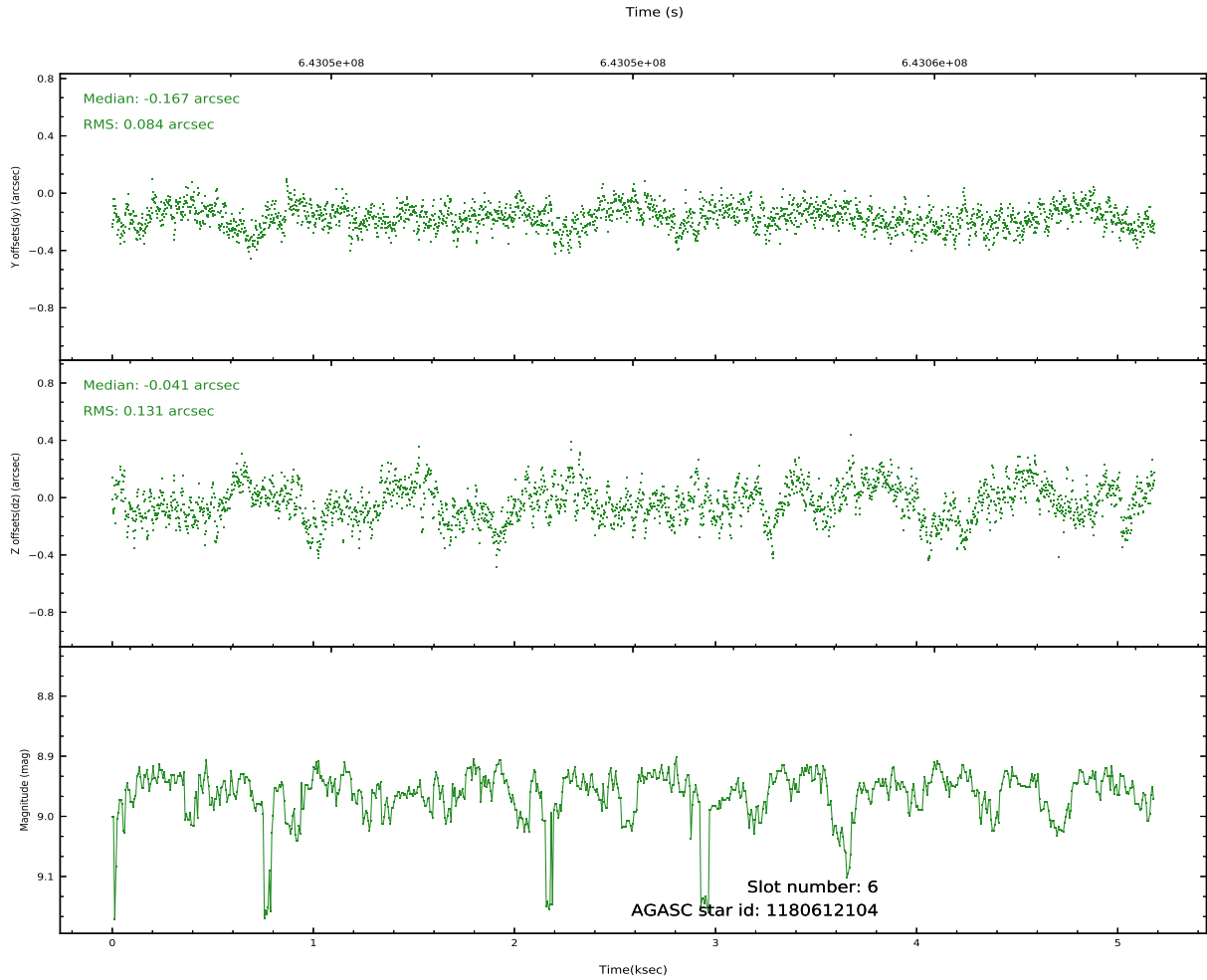
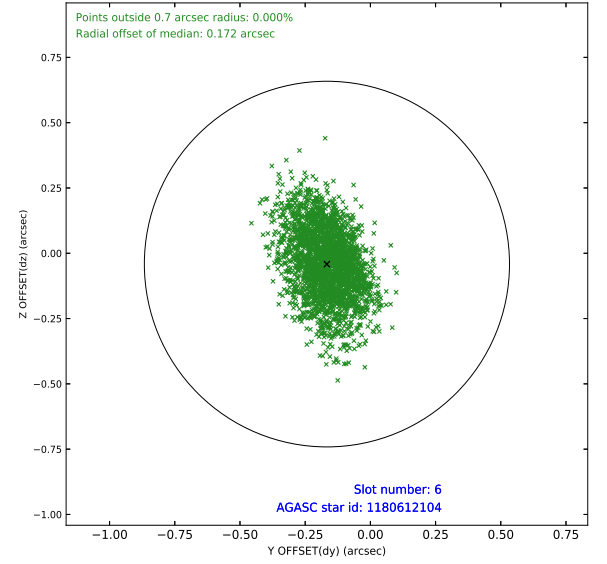
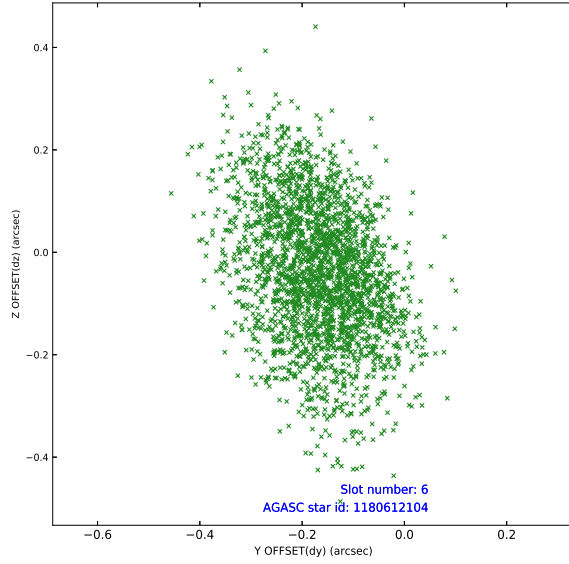
## 2.4.2 Slot 4



### 2.4.3 Slot 5

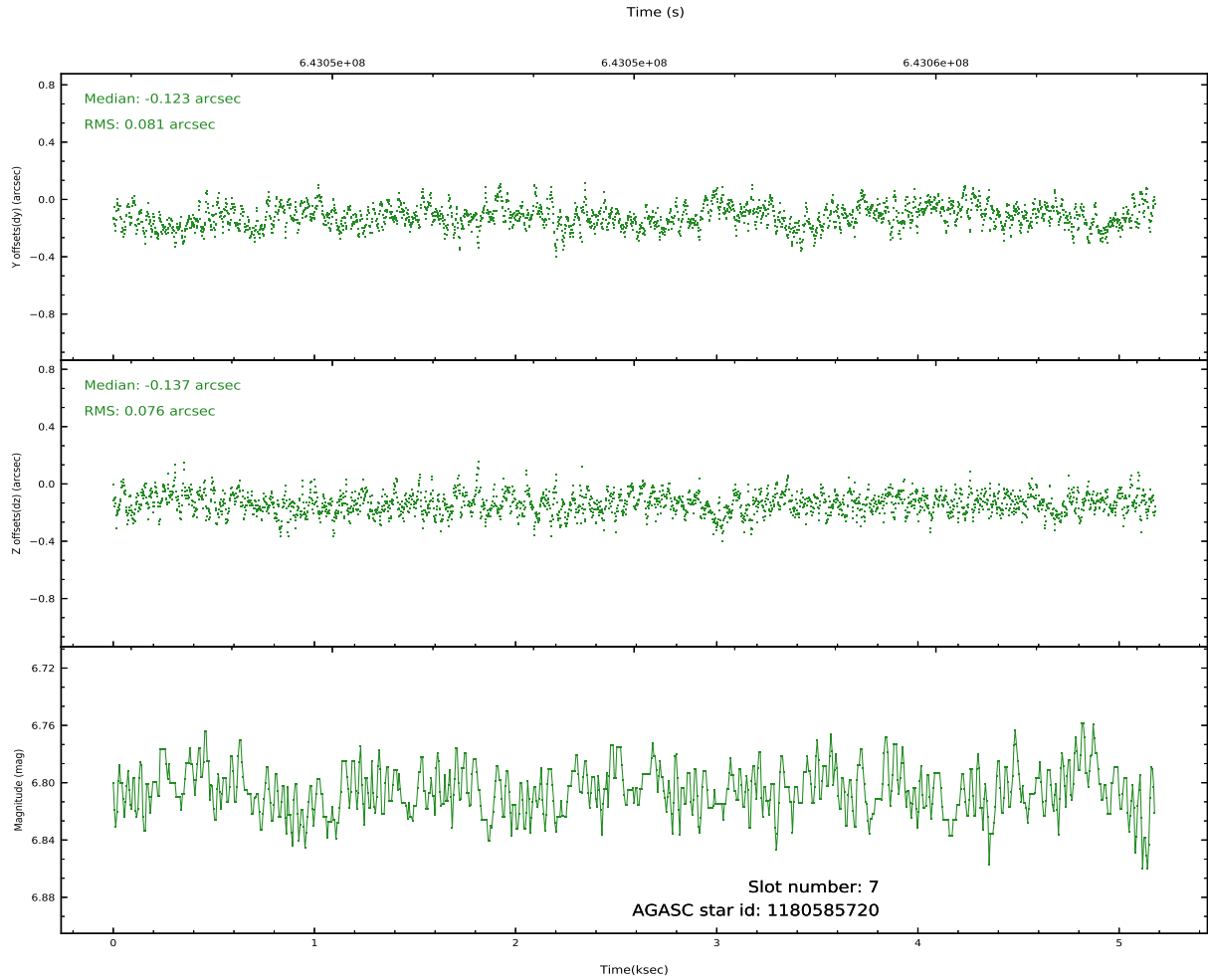
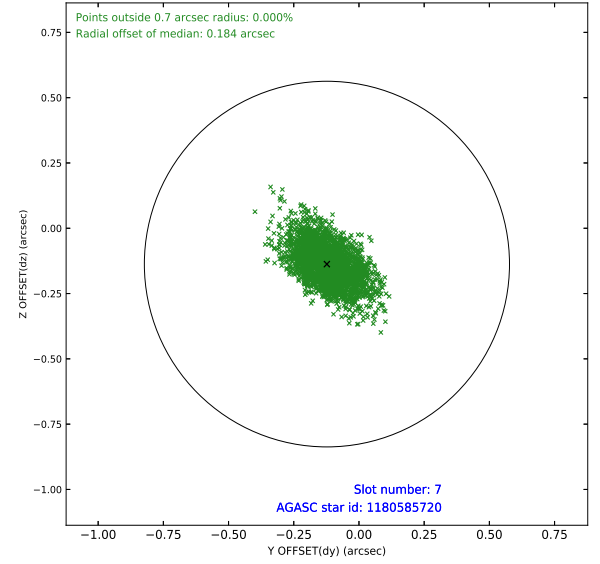
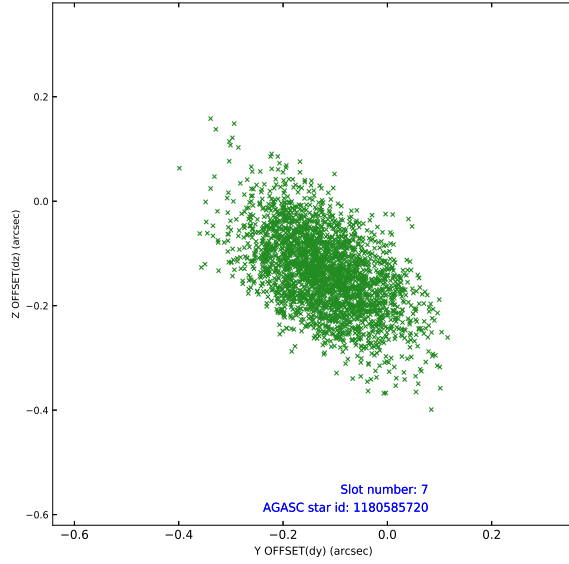


## 2.4.4 Slot 6



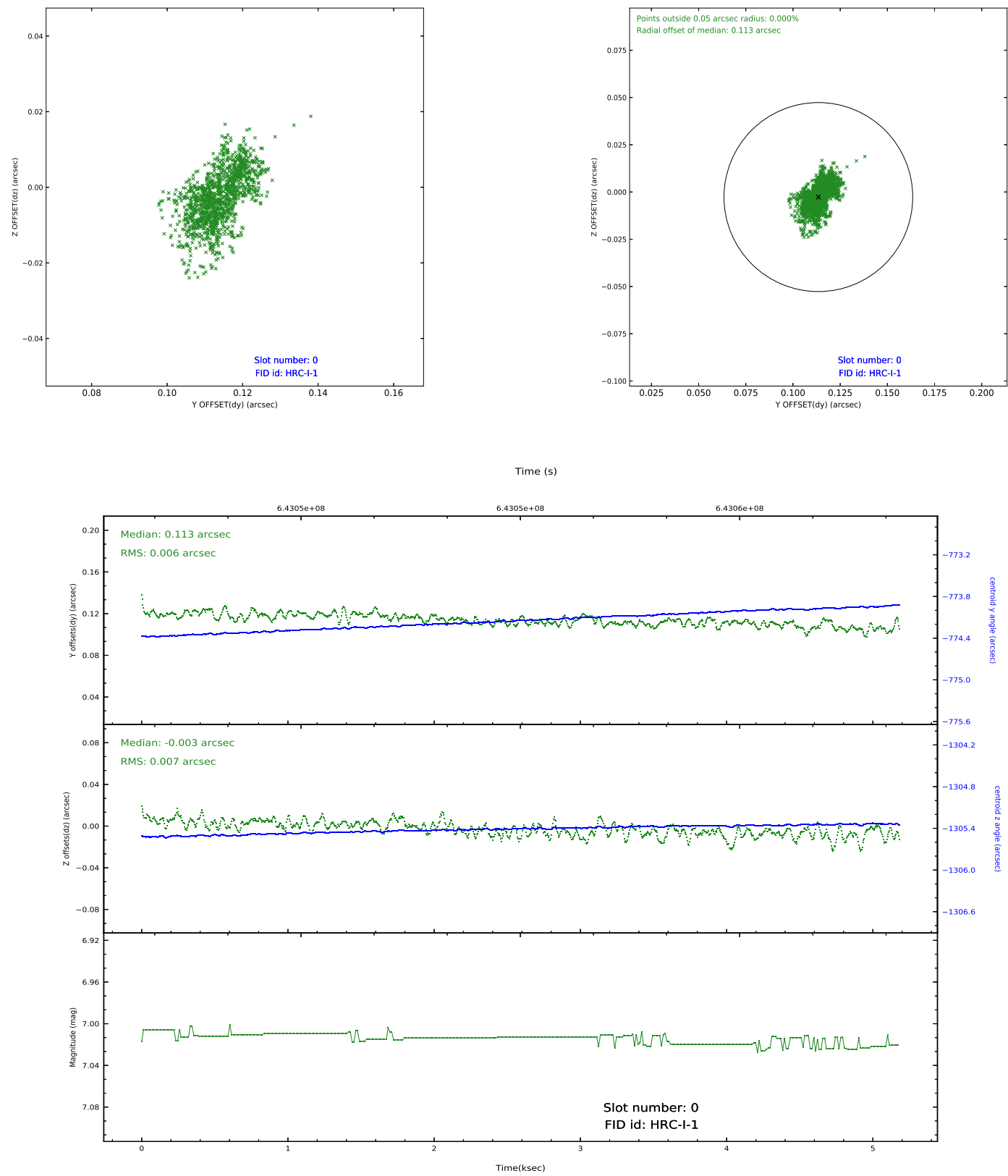


## 2.4.5 Slot 7

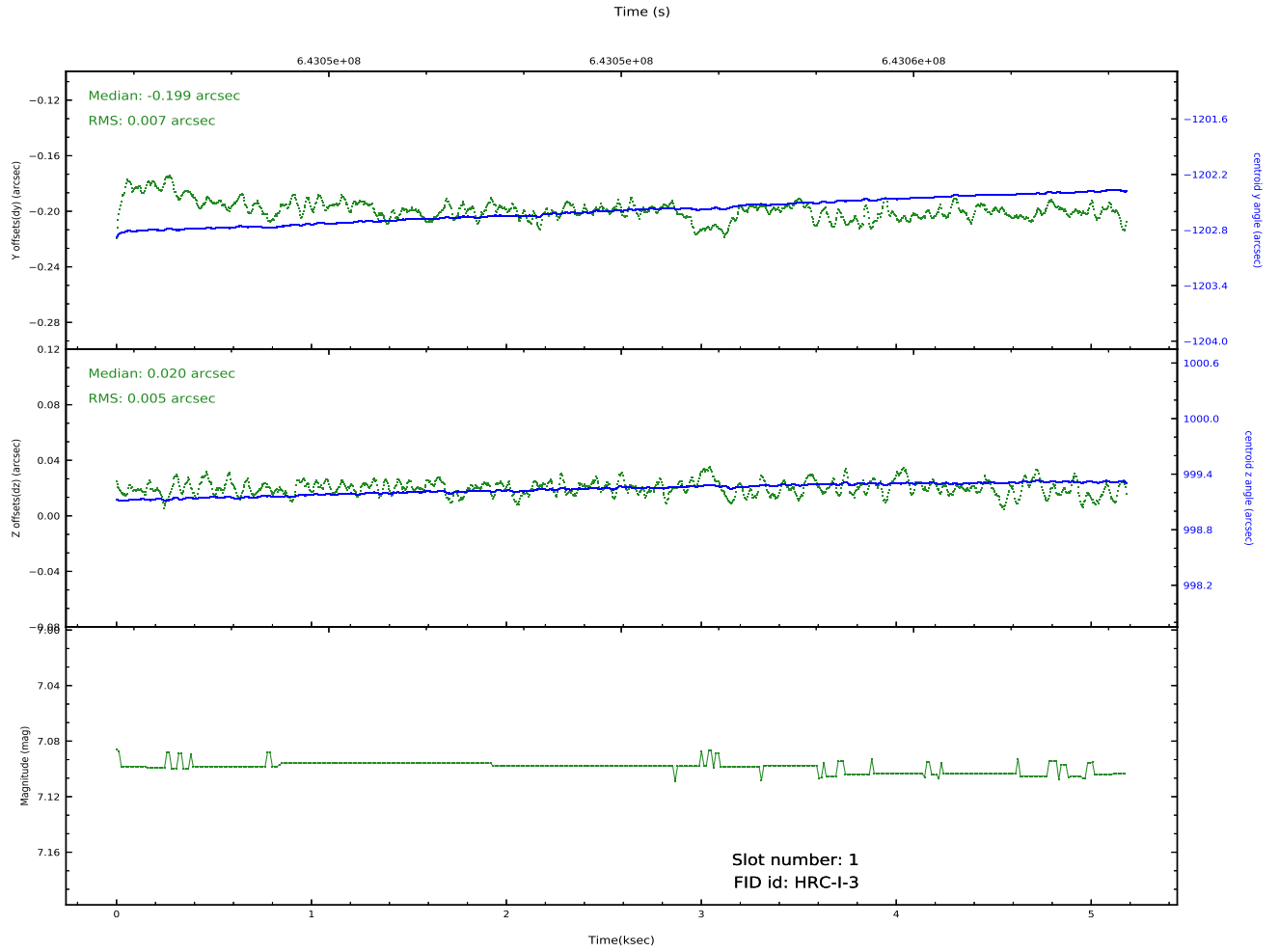
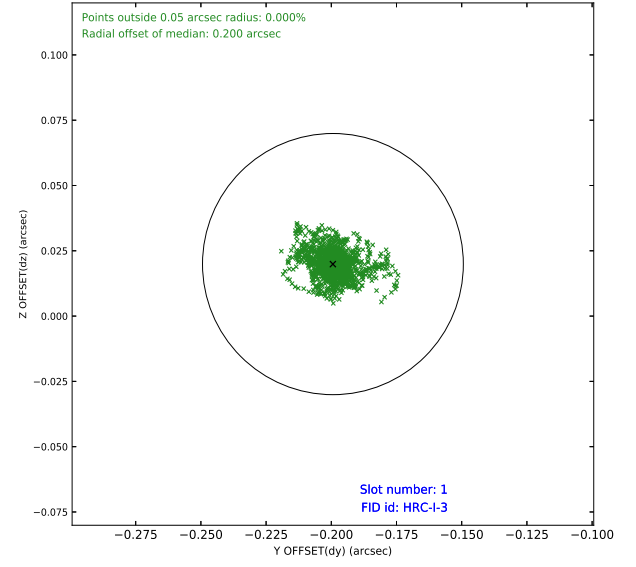
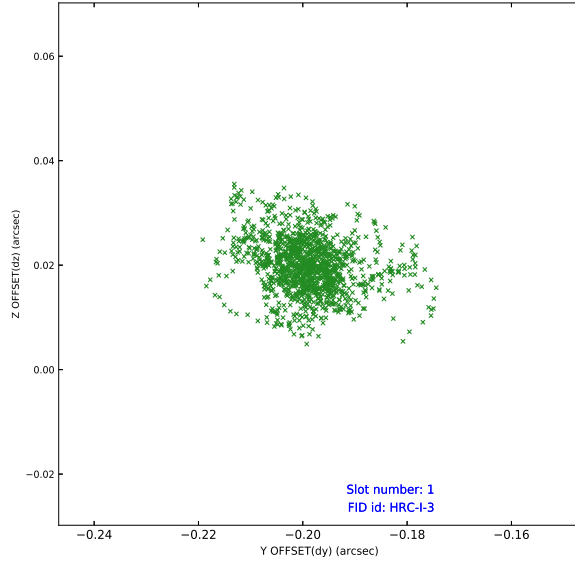


# 2.5 FID Slots

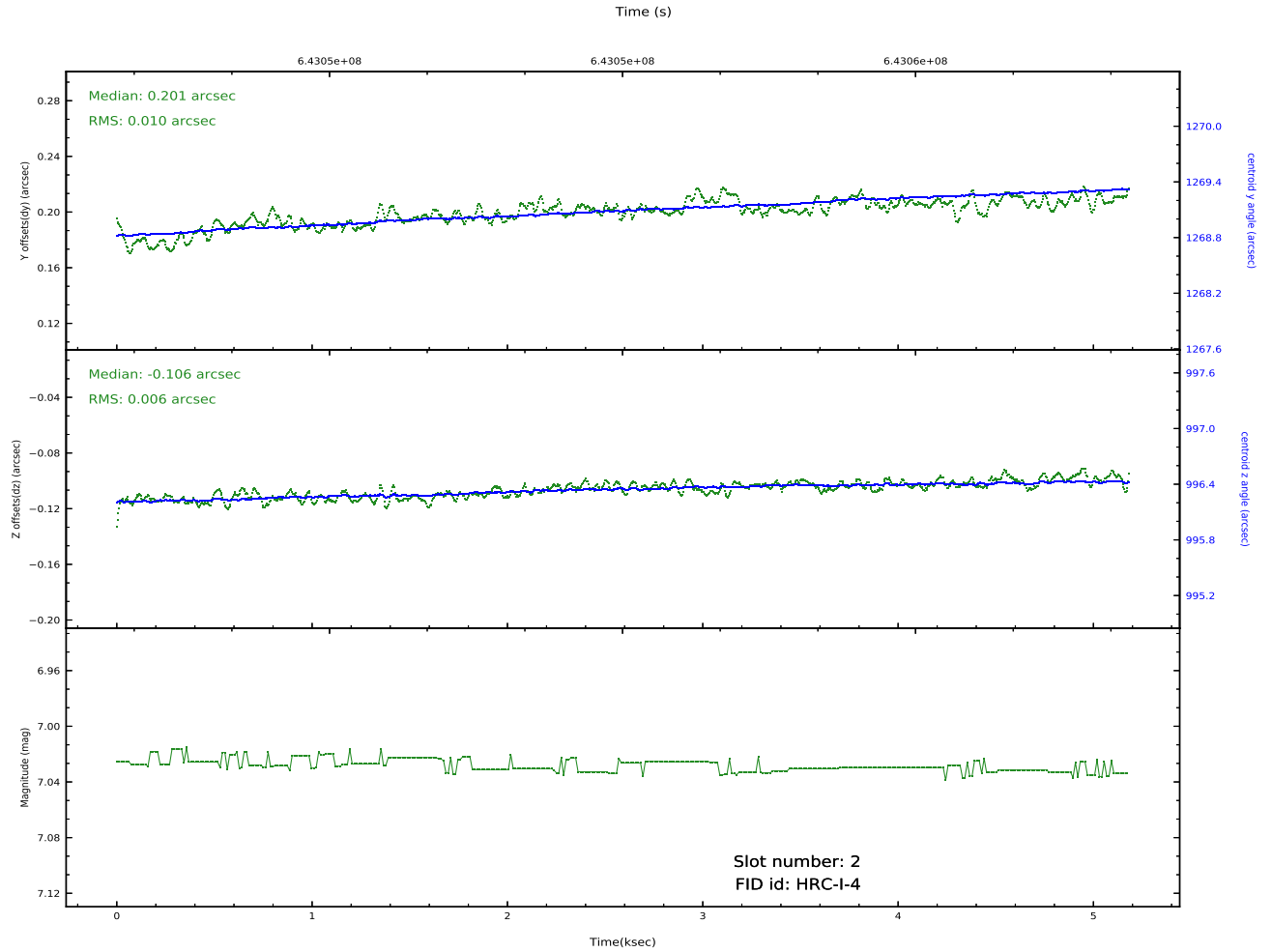
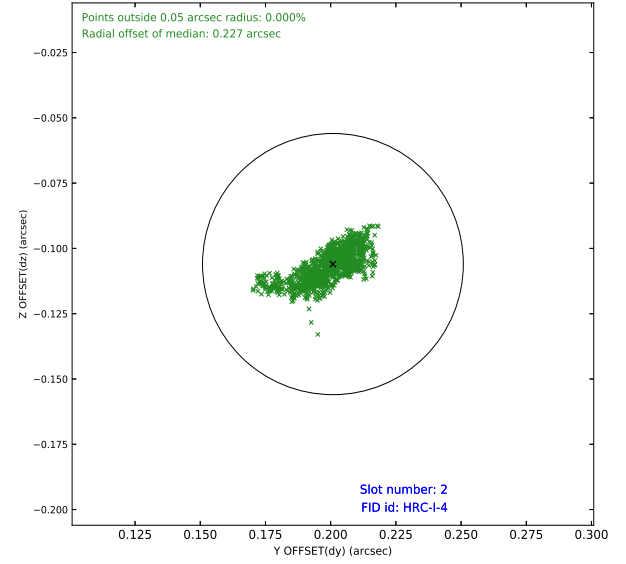
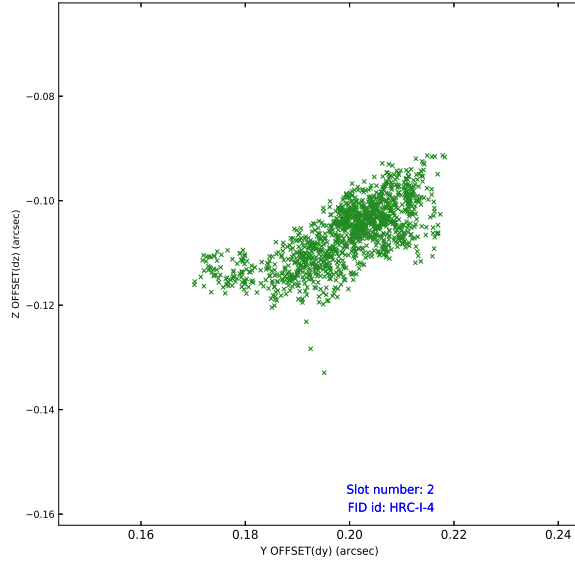
## 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1803503061533

### A.2 Comments