

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6014 - L2 Version 4  
Chandra X-Ray Center

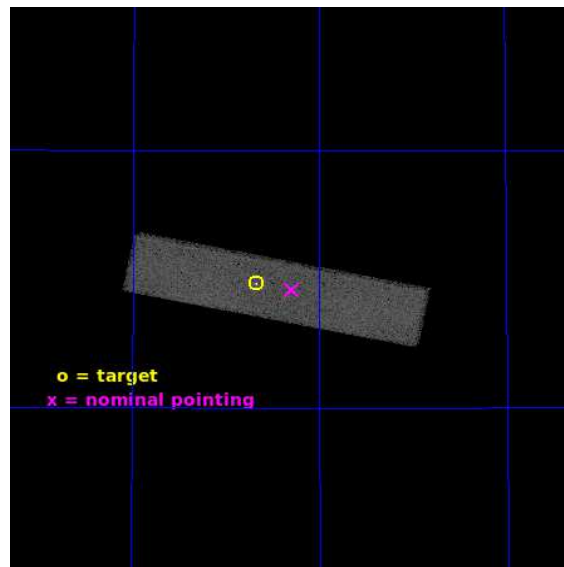
L2 Processing Date : Oct 10 2020

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# 1 Front

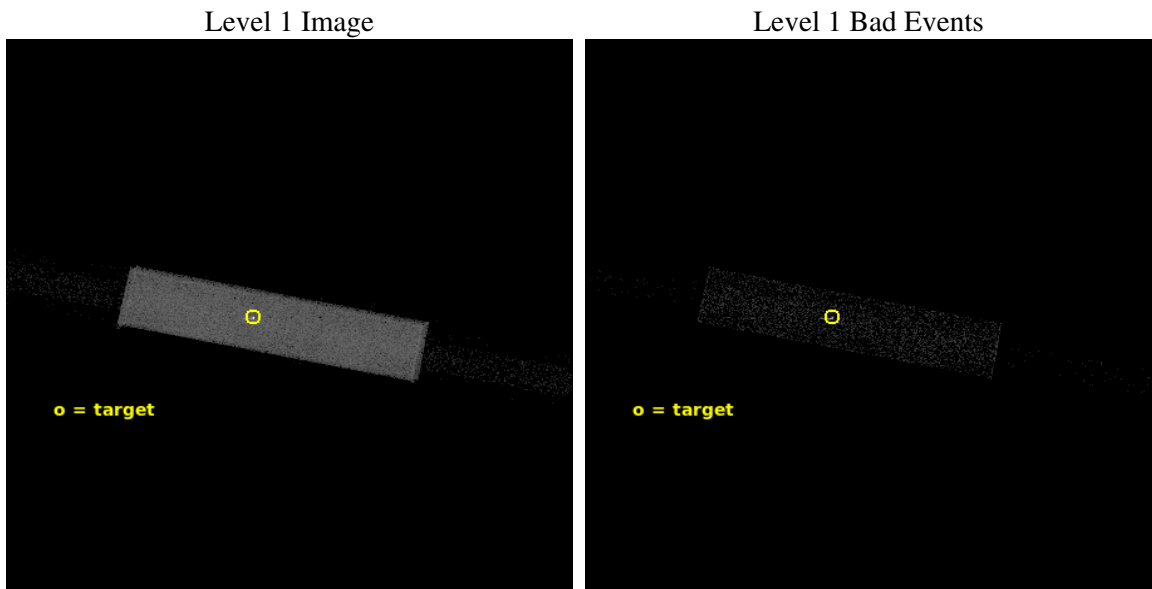
seq_num	290506	Sequence number
obs_id	6014	Observation id
title	AO6B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.07327365759	Nominal RA [deg]
dec_nom	45.730496224595	Nominal Dec [deg]
roll_nom	191.26805871693	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1153.3813030124	[s]
livetime	1143.4098941494	Ontime multiplied by DTCOR
l2events	70198	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	1153.3813030124	[s]
caldbver	4.9.2	&#160	l1events	110779	Number of level 1 events
date	2020-10-10T07:42:28	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

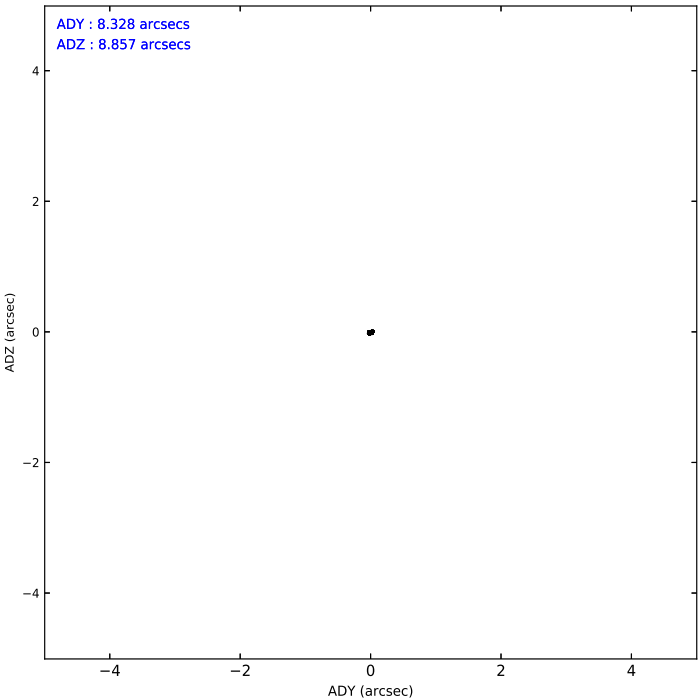
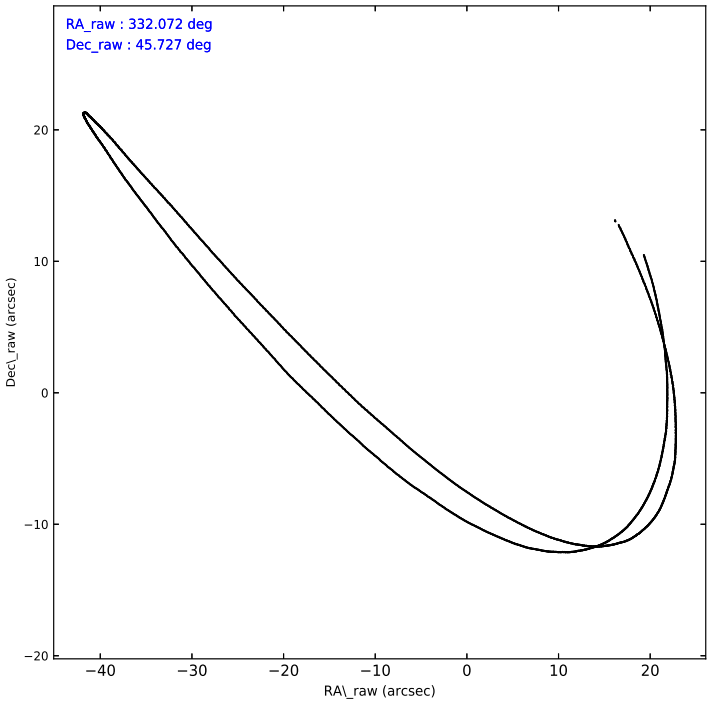
	segment 1	segment 2	segment 3
level 1 events	1158	108476	1145
rejected events	1158	24470	1145
rejected %	100%	22%	100%

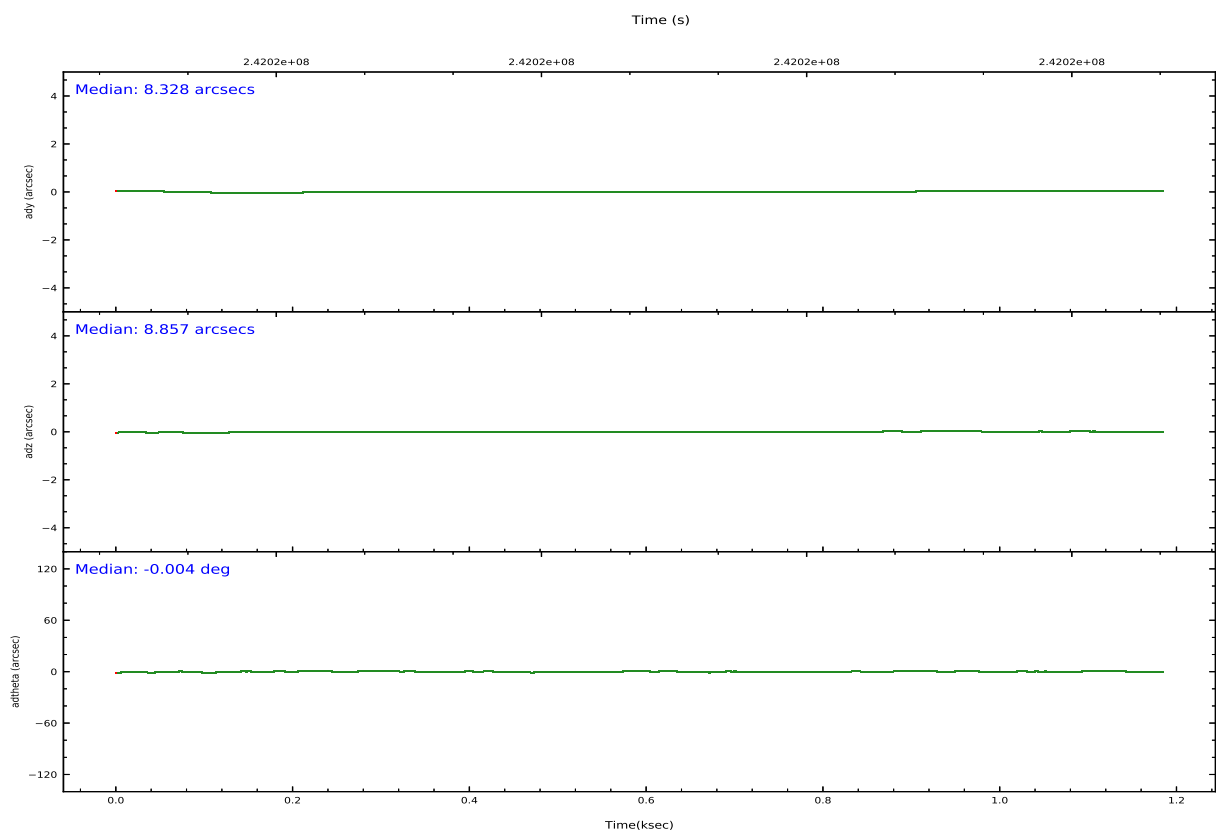
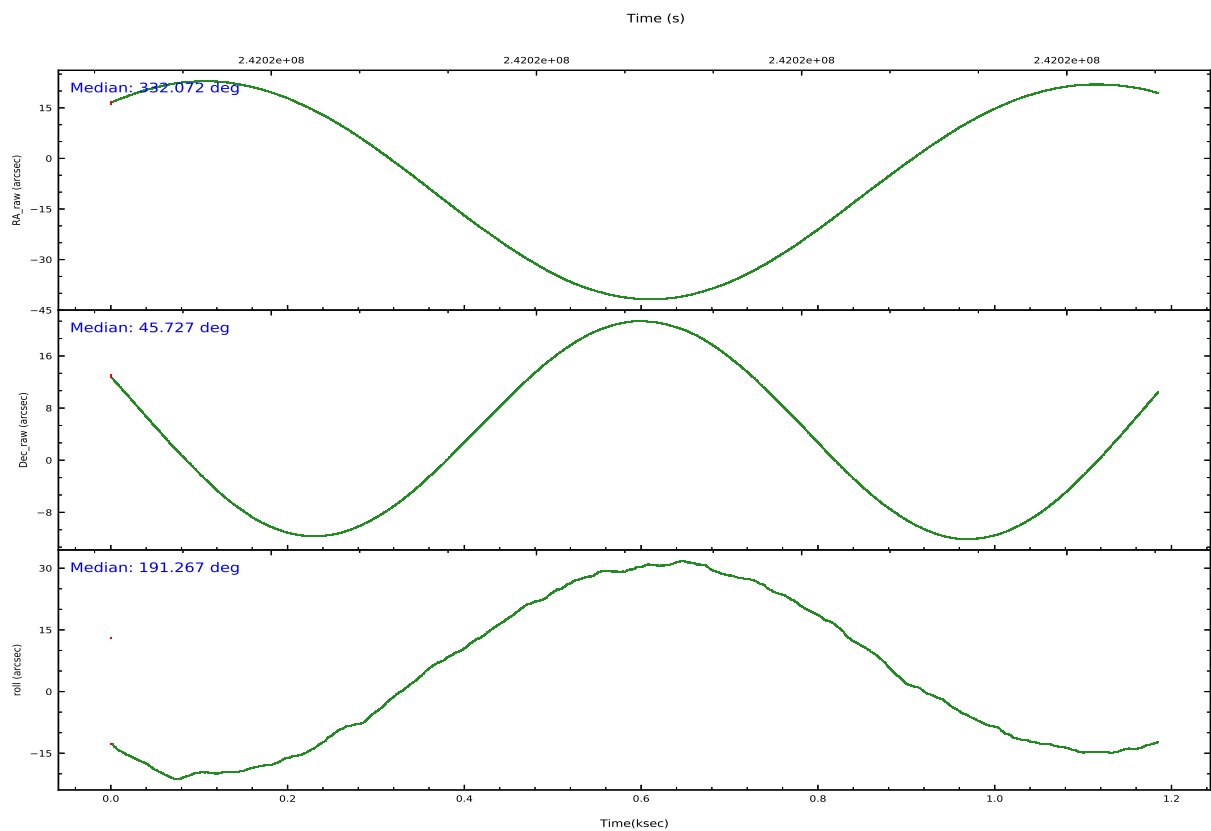
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.099104	332.07327365759
[deg] Pointing Dec	45.748528	45.730496224595
[deg] Pointing Roll	191.182656	191.26805871693
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	242019404.184000	242019028.40941
Observation start date	2005-09-02T03:35:40	2005-09-02T03:30:28
[s] Observation end time (MET)	242020404.184000	242020538.23448
Observation end date	2005-09-02T03:52:20	2005-09-02T03:55:38

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

## 2.3 Aspect





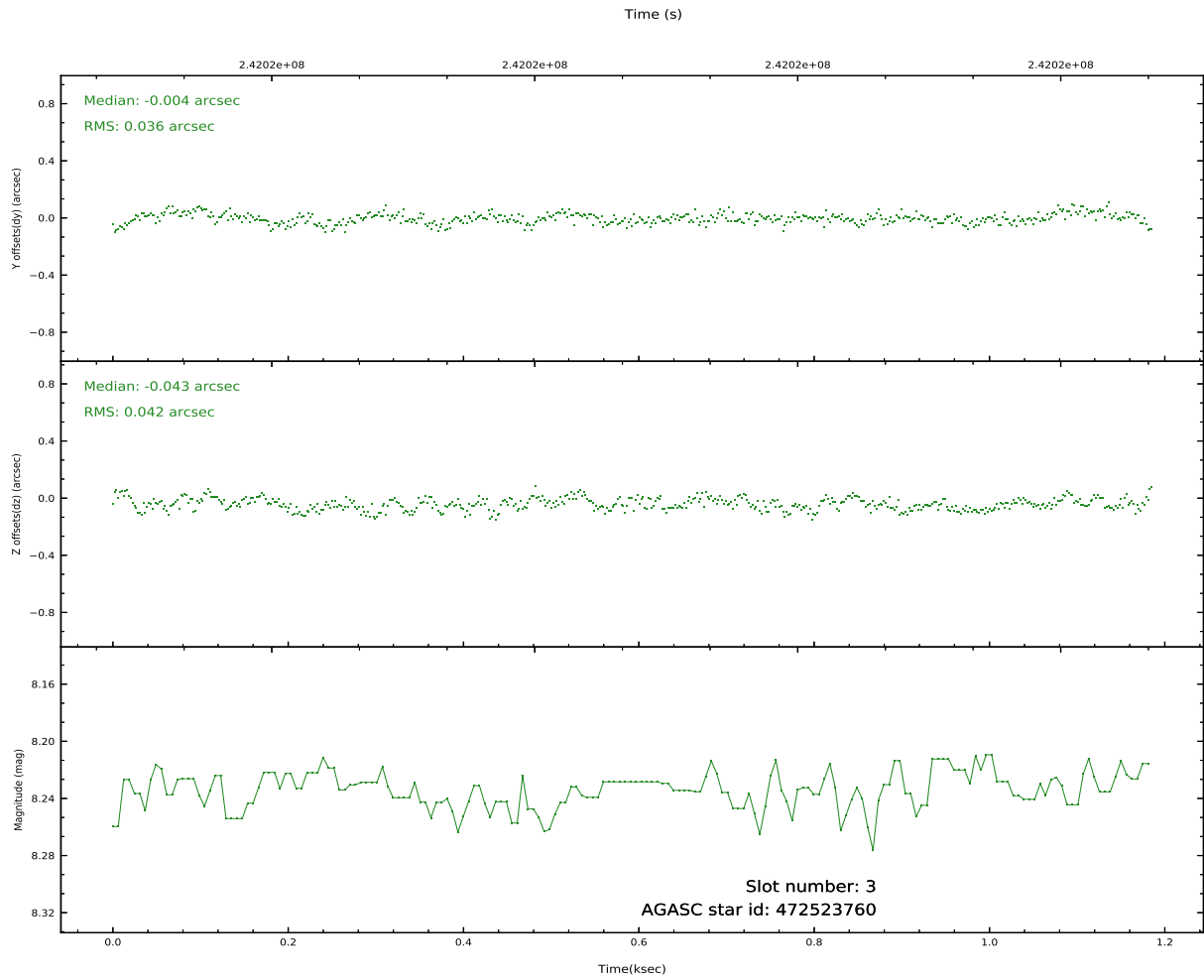
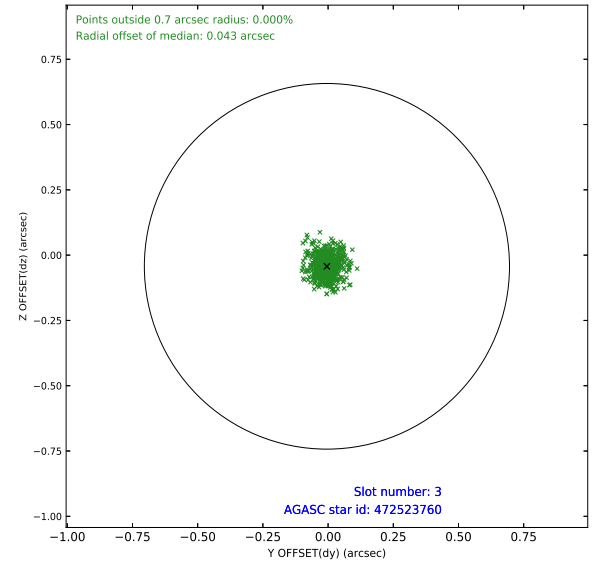
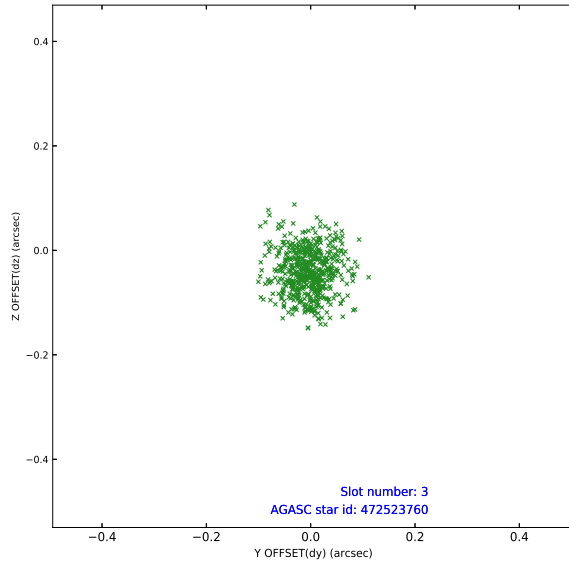
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	289	1.000	0.132	-0.179	0.007	0.014	0.000000	0.000000	-1162.51	-457
1	FID		HRC-S-2	7.03	290	1.000	0.169	-0.118	0.004	0.010	0.000000	0.000000	1233.20	-451
2	FID		HRC-S-3	7.04	289	1.000	0.089	-0.004	0.007	0.014	0.000000	0.000000	-1161.02	570
3	GUIDE	used	472523760	8.23	579	1.000	-0.004	-0.043	0.060	0.096	331.645363	45.403260	1367.40	989
4	GUIDE	used	472527720	6.99	579	1.000	-0.046	-0.046	0.071	0.121	331.460205	45.112509	2039.17	1922
5	GUIDE	used	472535576	7.86	579	1.000	-0.113	0.106	0.054	0.087	331.438373	46.291802	1237.39	-2244
6	GUIDE	used	472665256	9.00	577	1.000	0.194	-0.019	0.073	0.118	332.808125	46.195041	-2042.18	-1250
7	GUIDE	used	472533912	9.15	578	1.000	-0.027	0.001	0.124	0.192	331.791136	46.368695	315.82	-2346

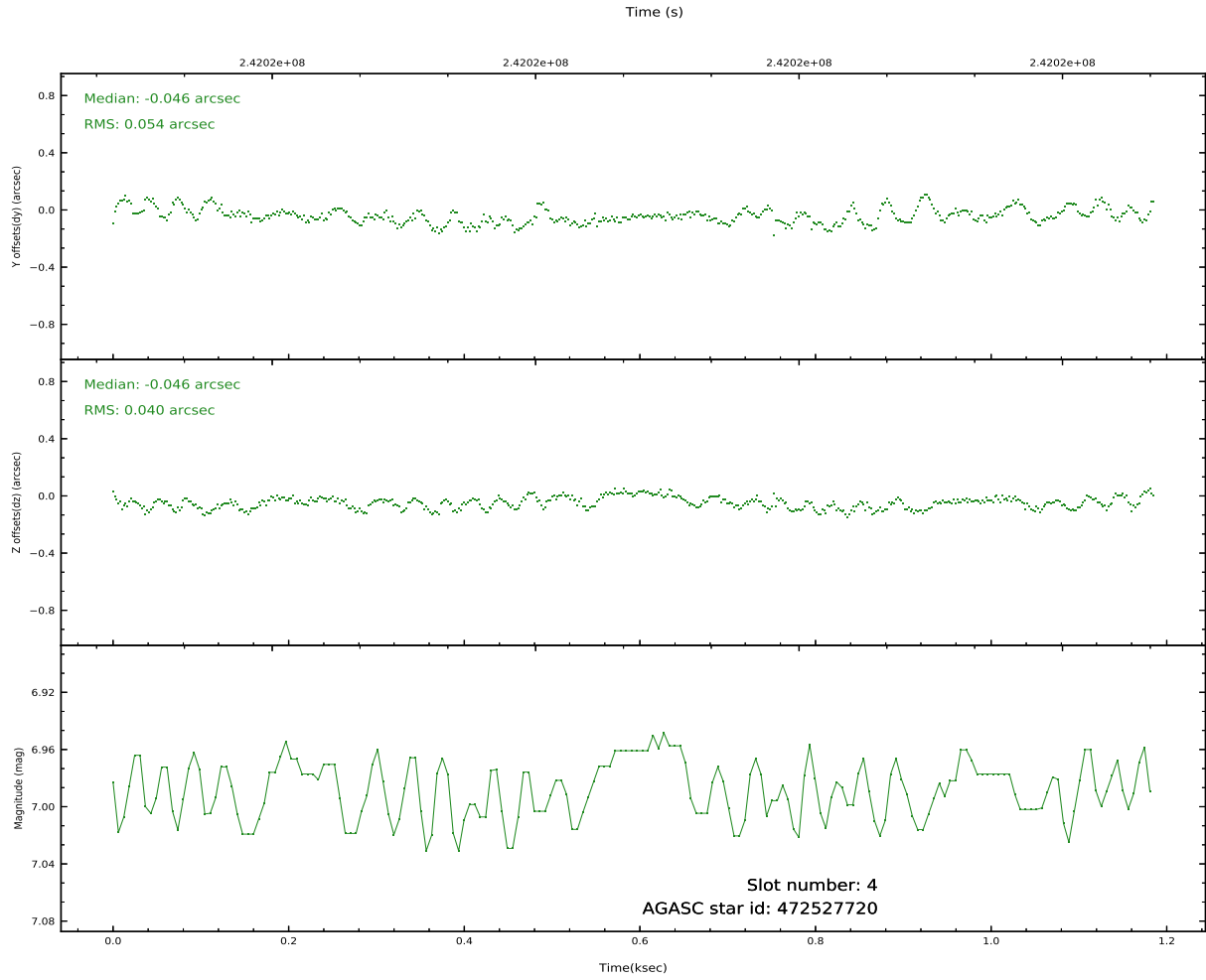
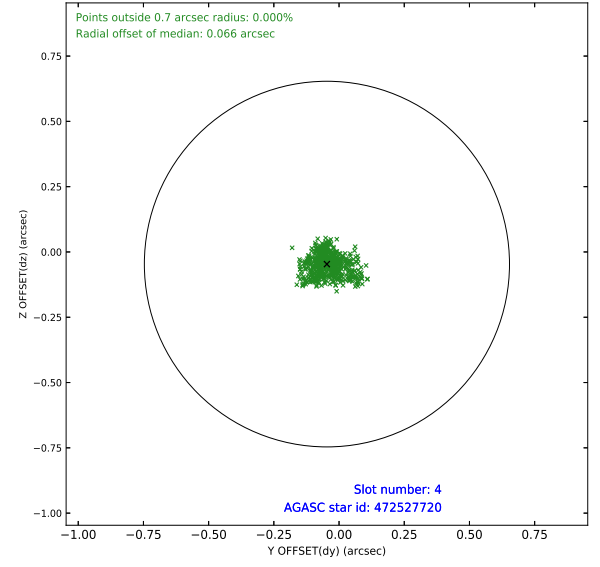
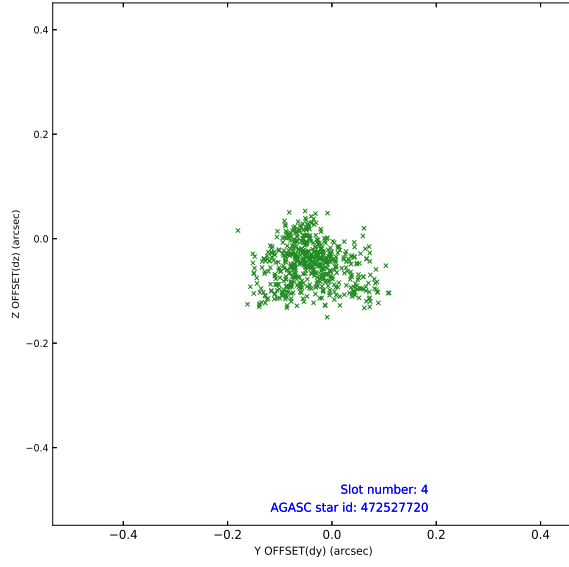


## 2.4 Star Slots

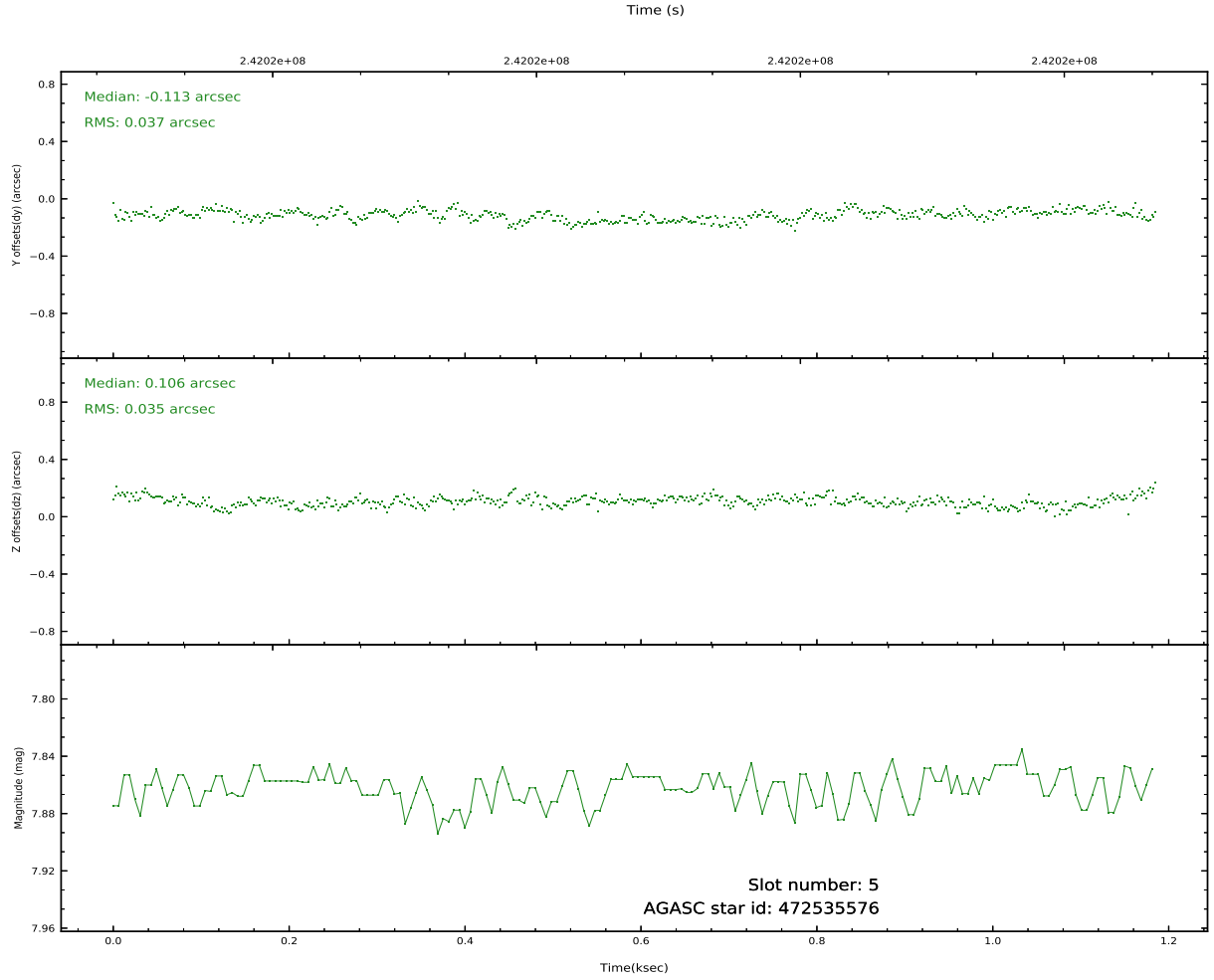
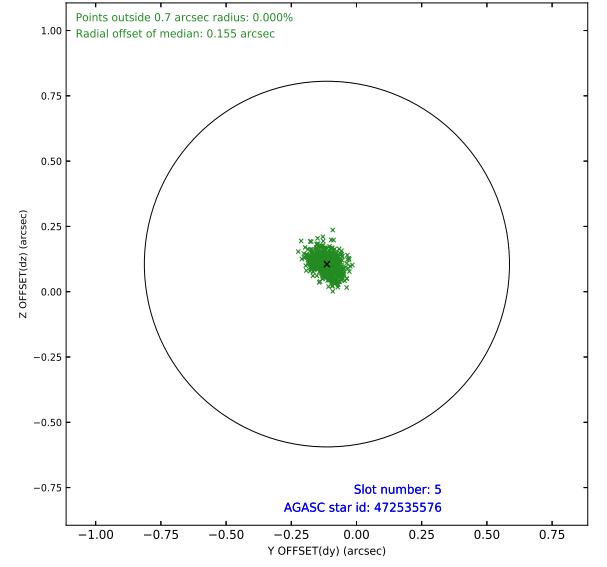
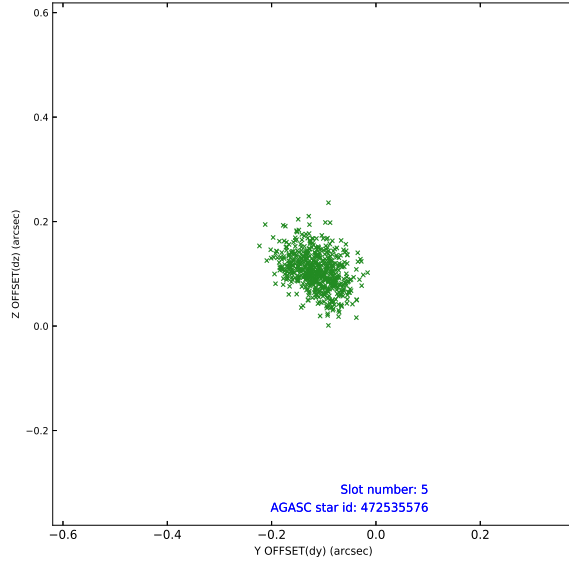
### 2.4.1 Slot 3



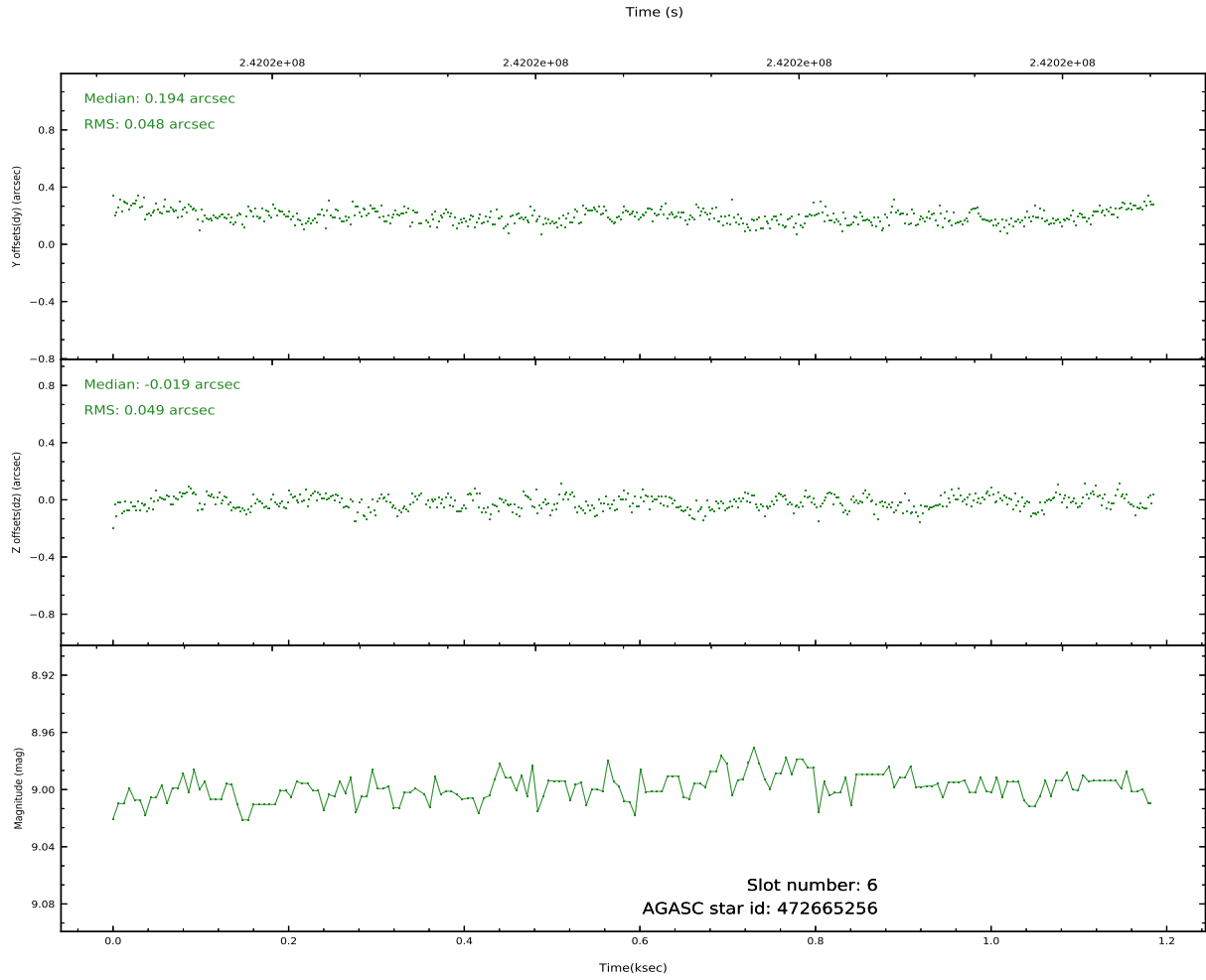
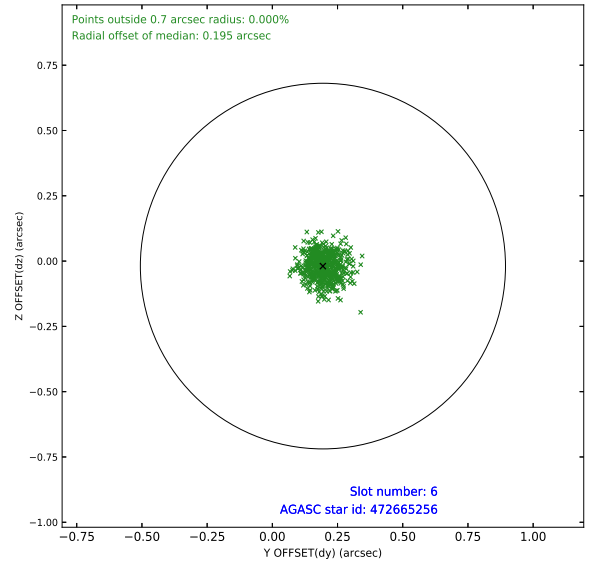
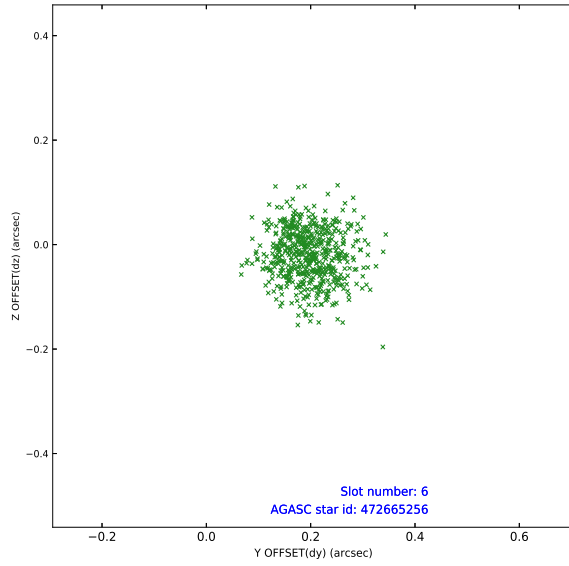
## 2.4.2 Slot 4



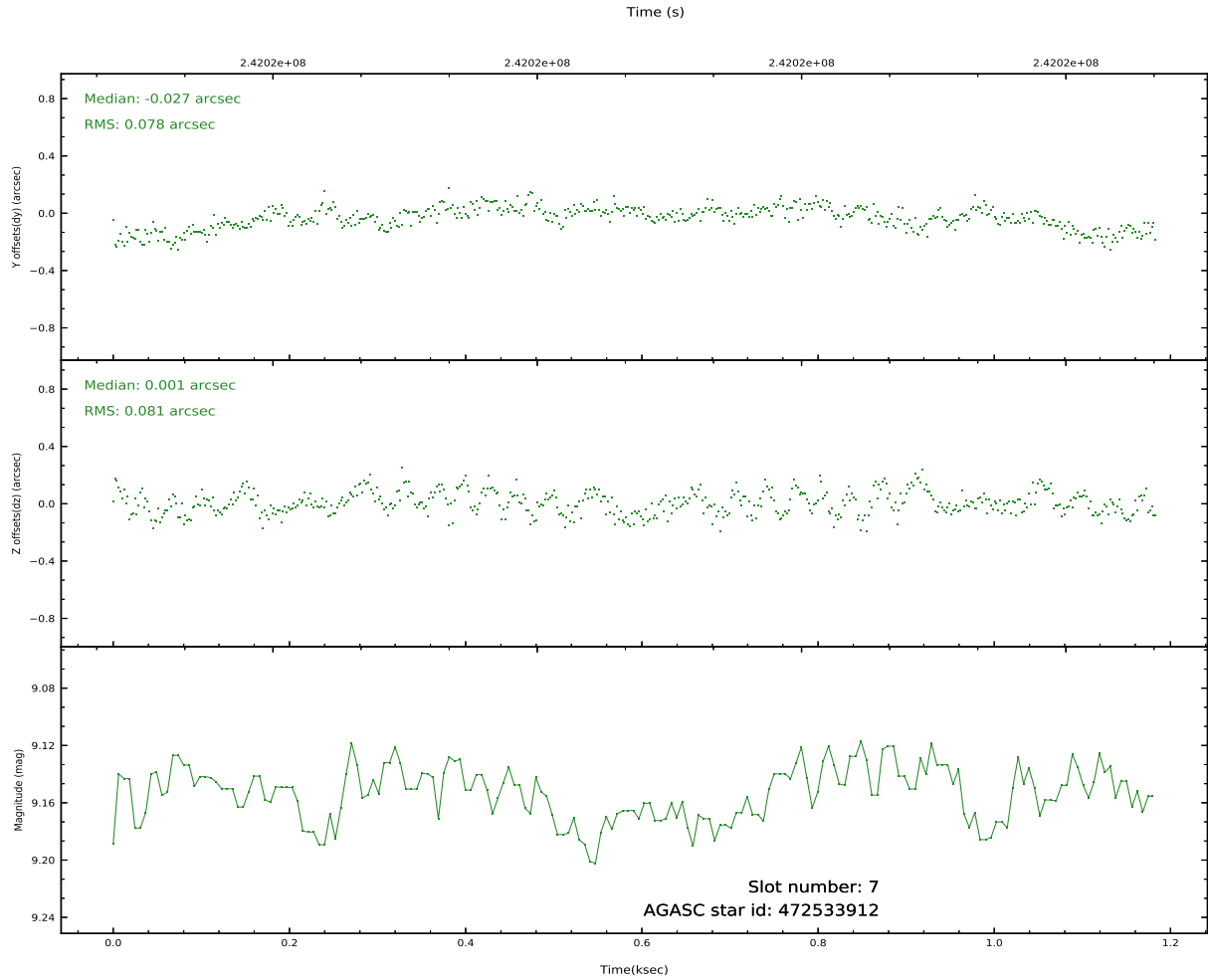
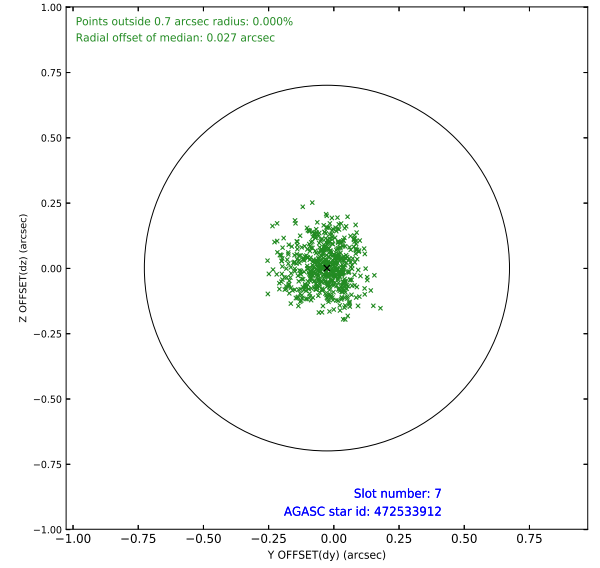
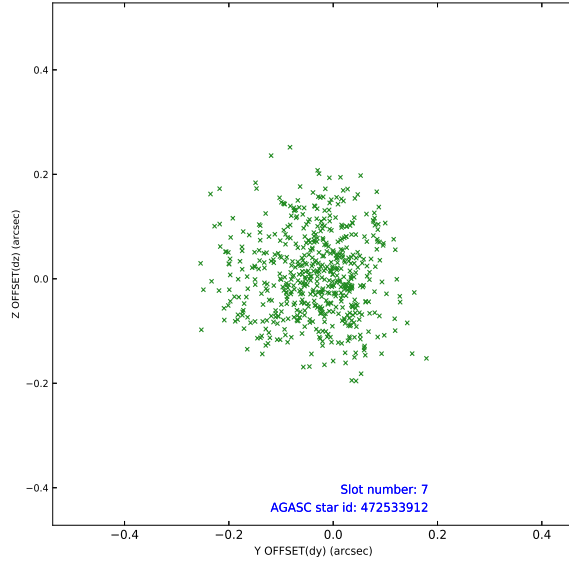
### 2.4.3 Slot 5



## 2.4.4 Slot 6

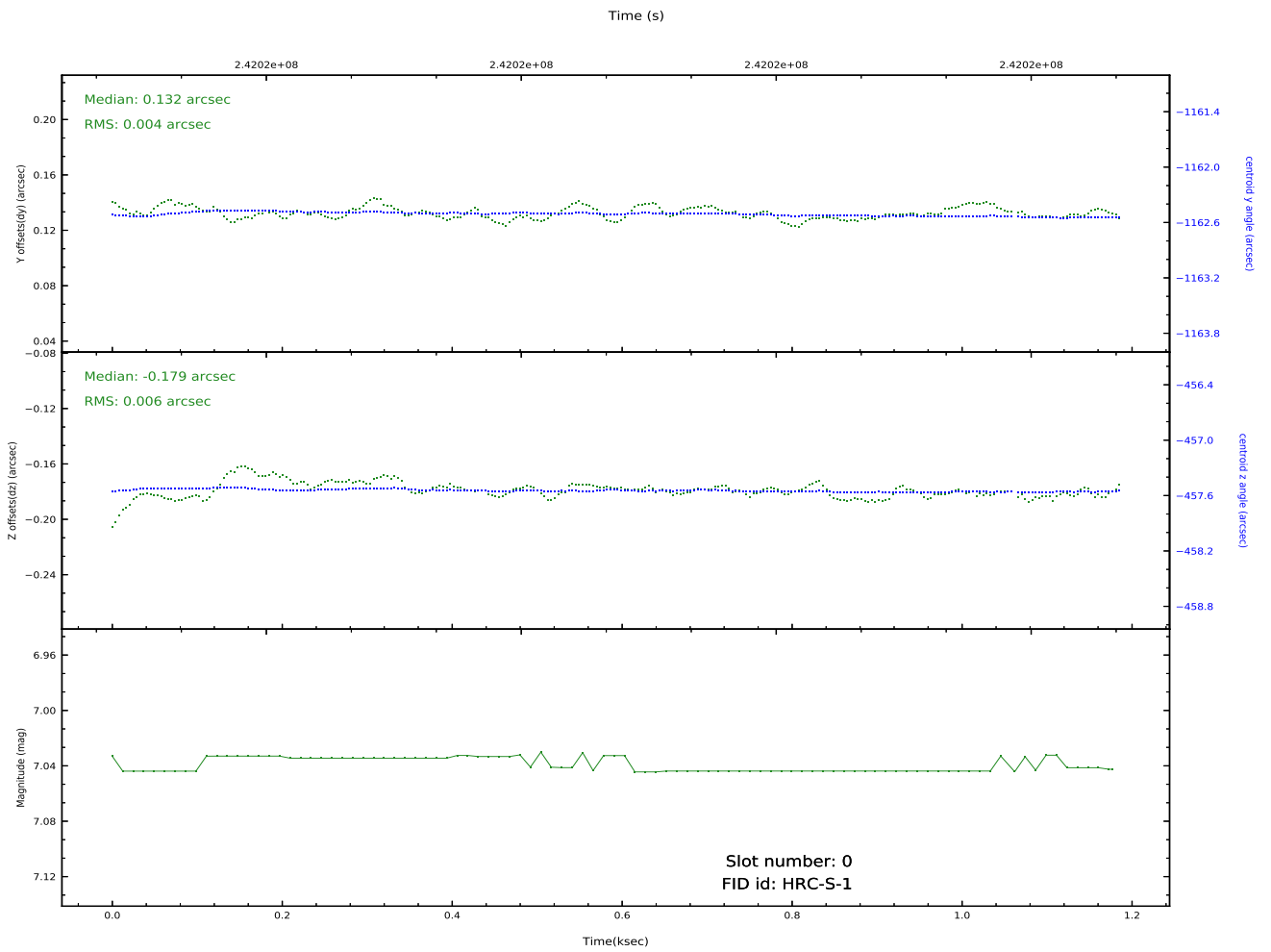
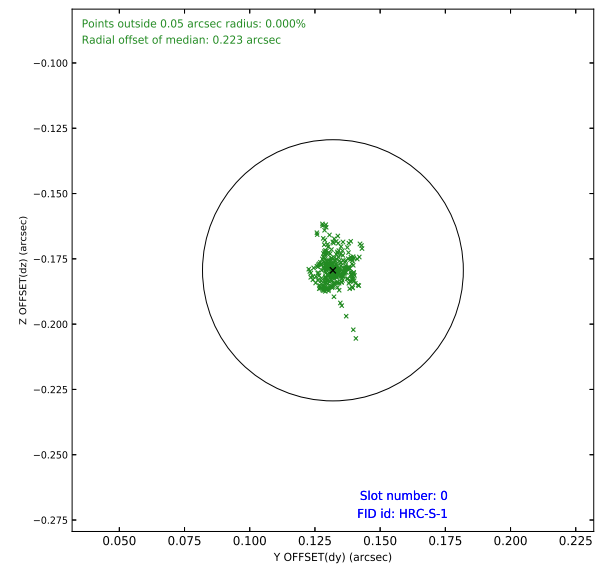
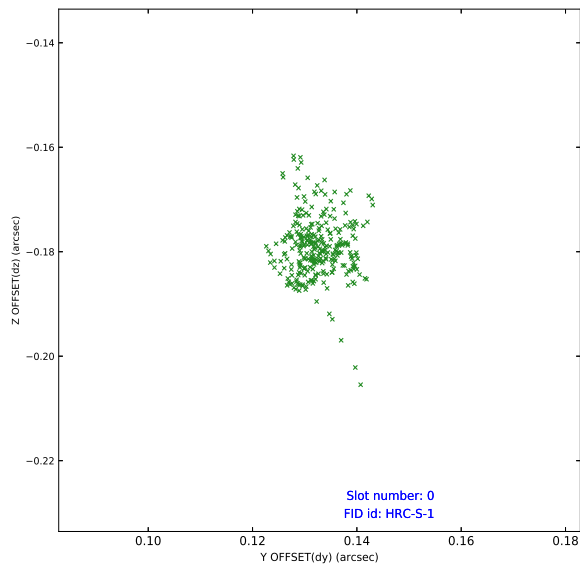


## 2.4.5 Slot 7

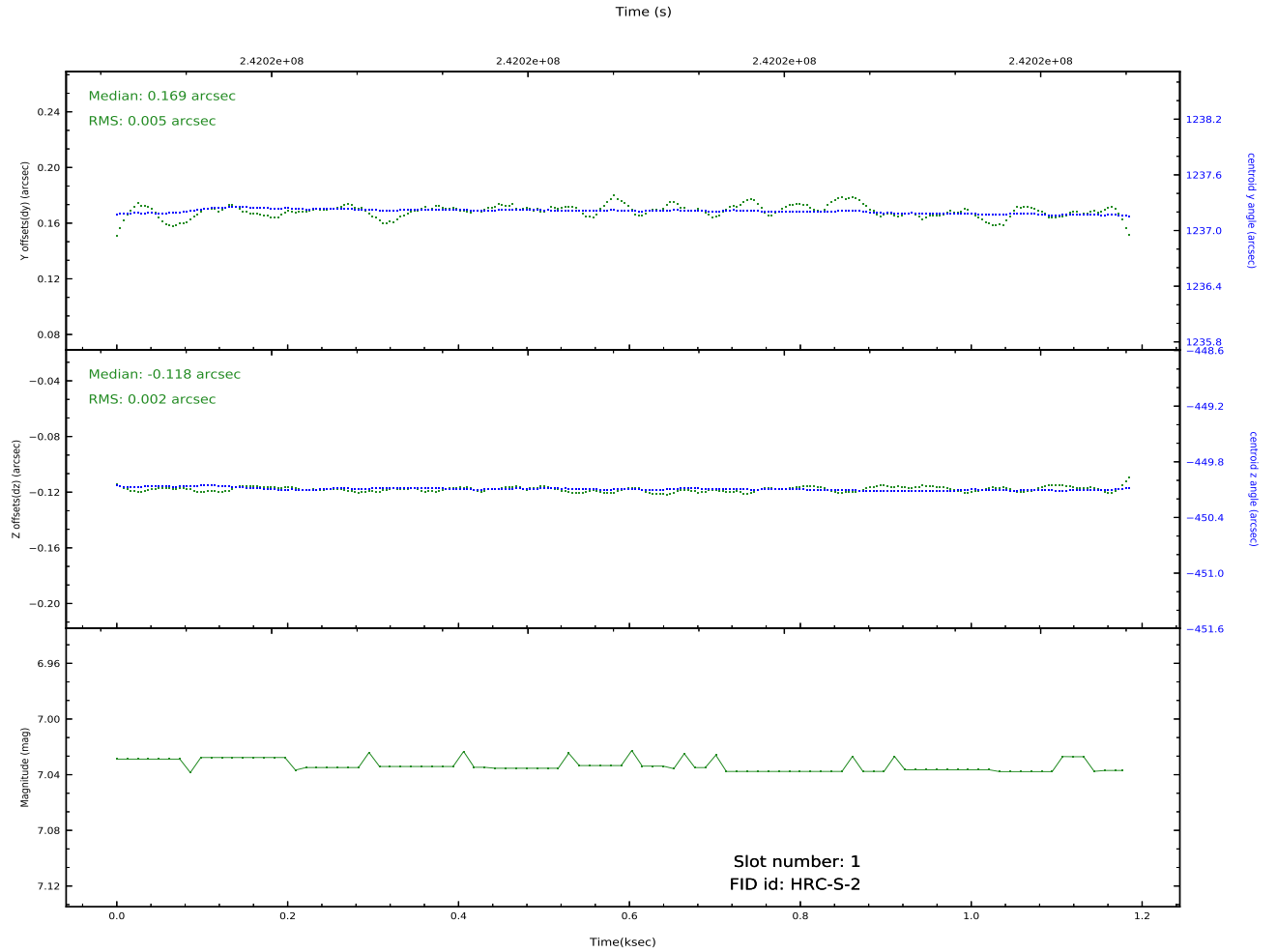
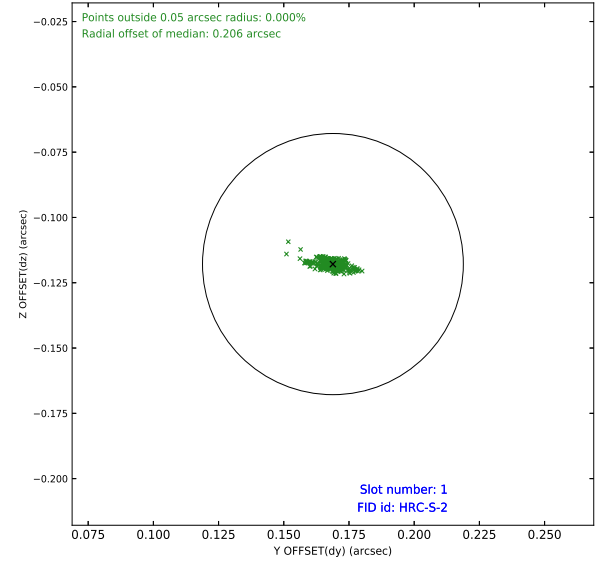
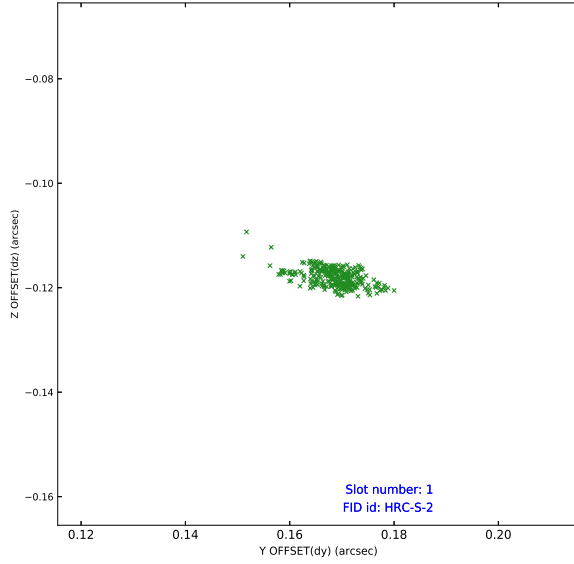


## 2.5 FID Slots

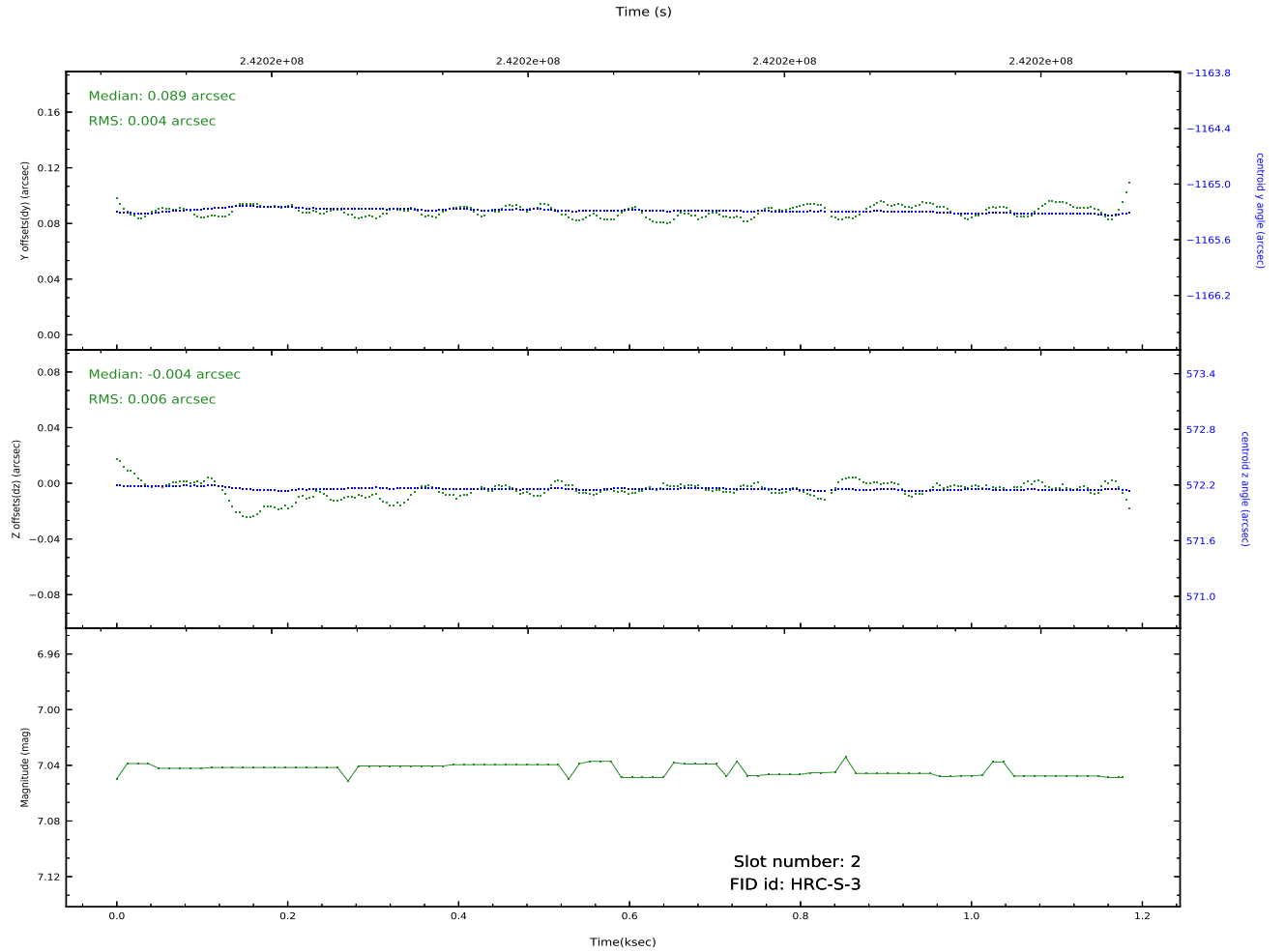
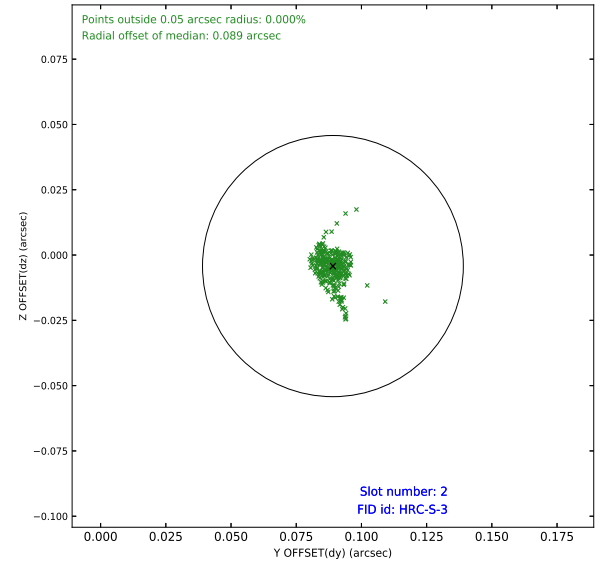
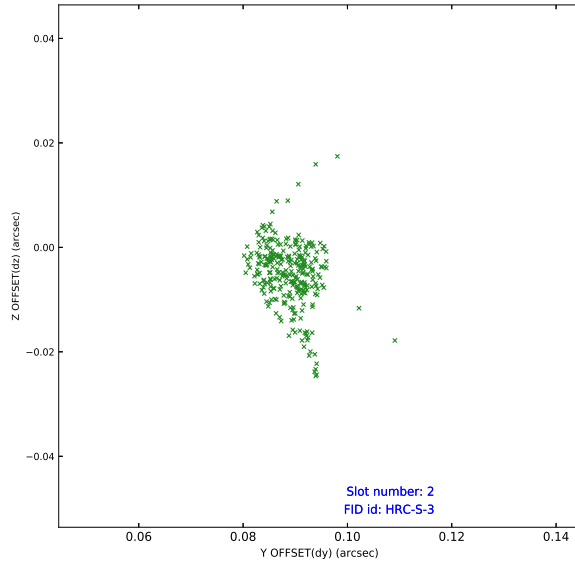
### 2.5.1 Slot 0



## 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	1.153381

## A.2 Comments

Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.