

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6034 - L2 Version 4  
Chandra X-Ray Center

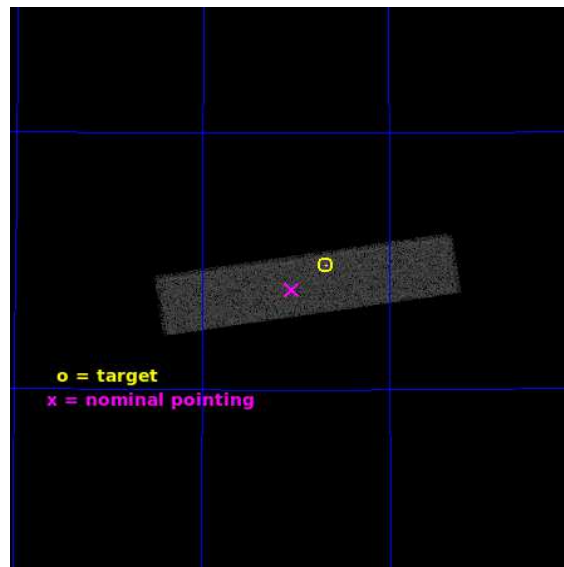
L2 Processing Date : Oct 6 2020

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# 1 Front

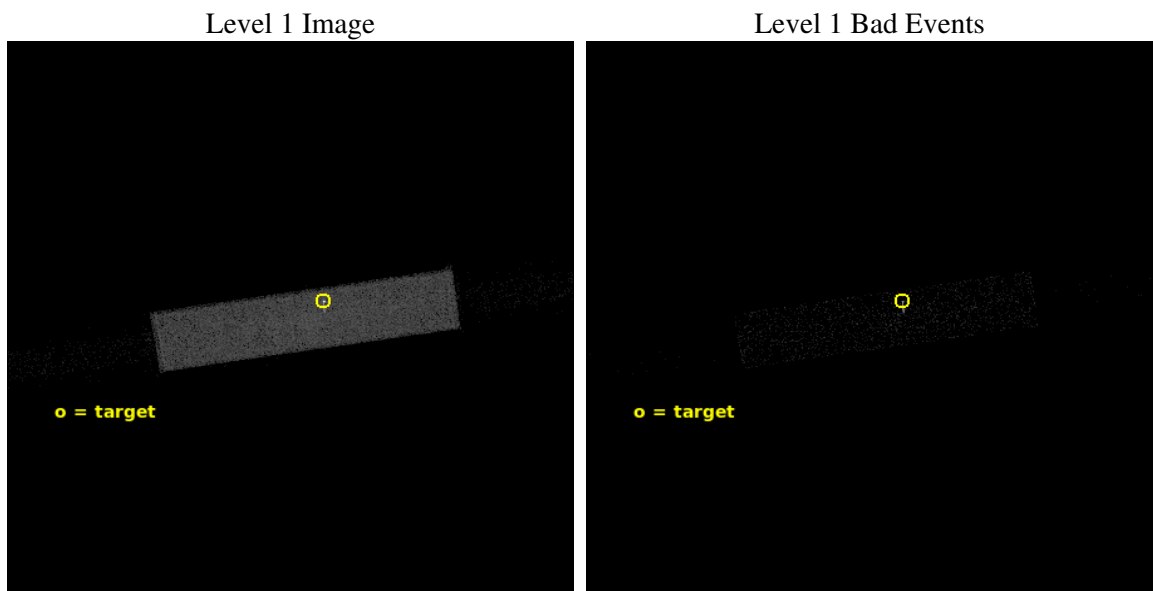
seq_num	290526	Sequence number
obs_id	6034	Observation id
title	AO6A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.25984459926	Nominal RA [deg]
dec_nom	45.694497735068	Nominal Dec [deg]
roll_nom	351.2752857913	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1157.4813023508	[s]
livetime	1150.5740835631	Ontime multiplied by DTCOR
l2events	47111	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	1157.4813023508	[s]
caldsver	4.9.2	&#160	l1events	77418	Number of level 1 events
date	2020-10-06T16:06:53	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

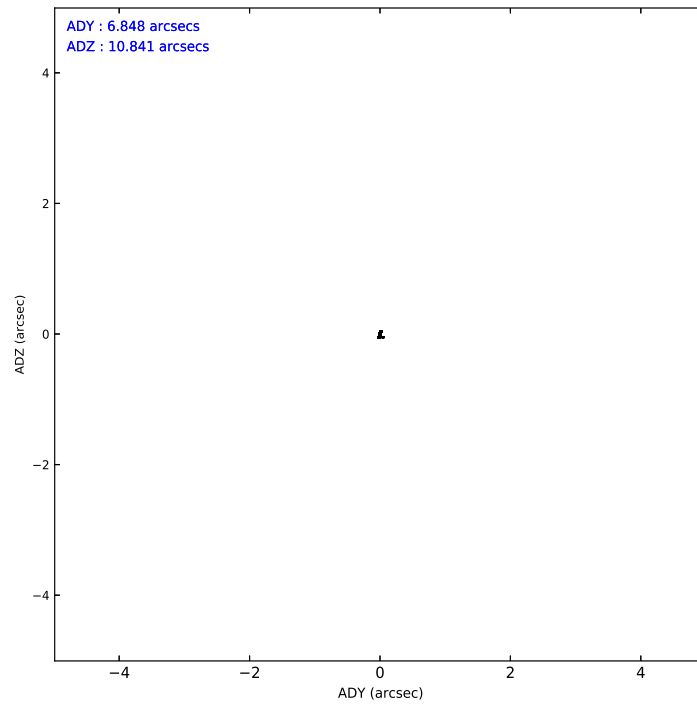
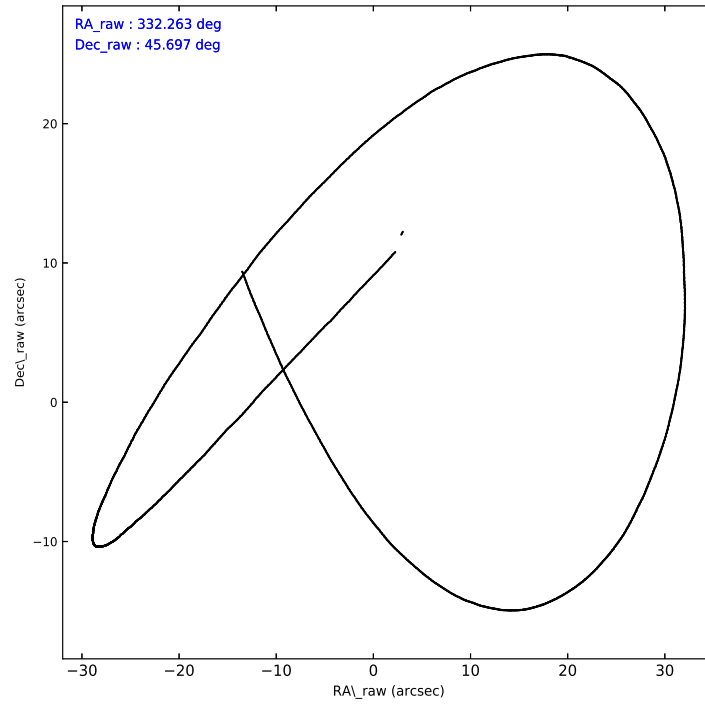
	segment 1	segment 2	segment 3
level 1 events	654	76136	628
rejected events	654	17174	628
rejected %	100%	22%	100%

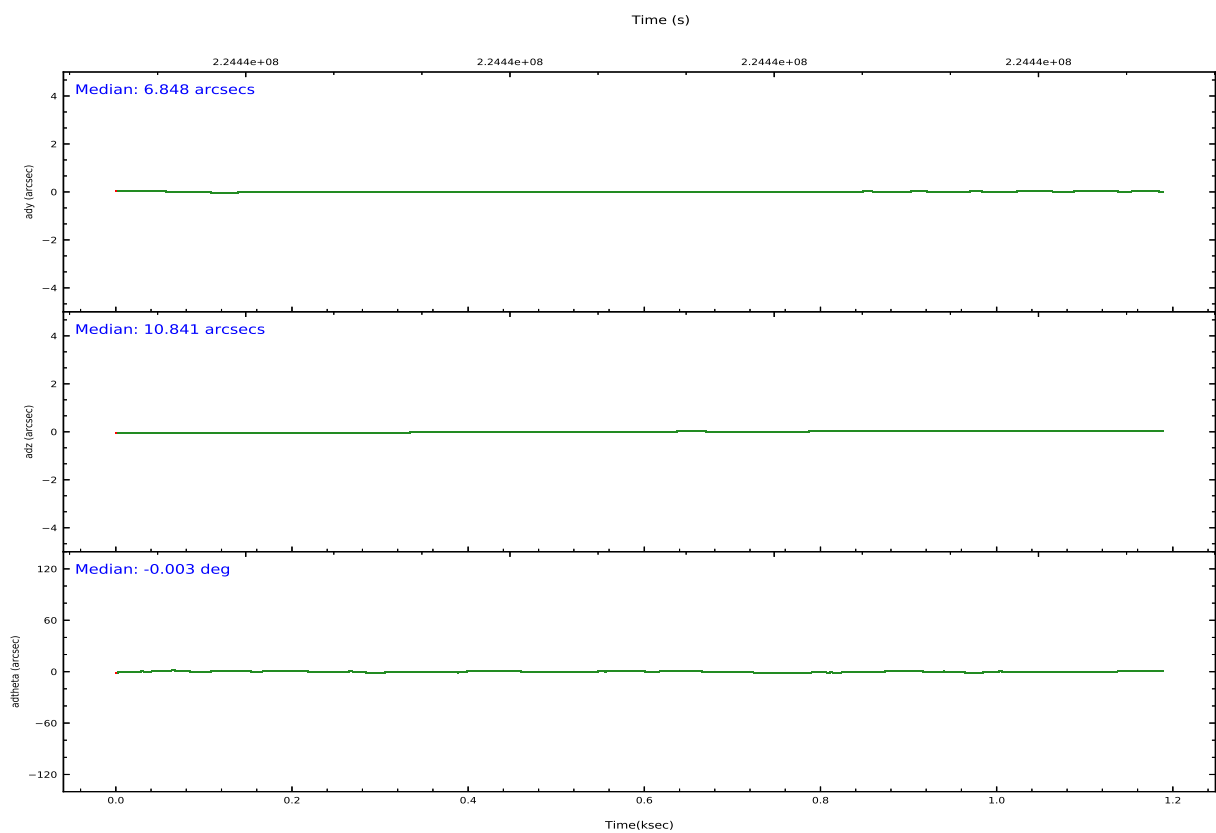
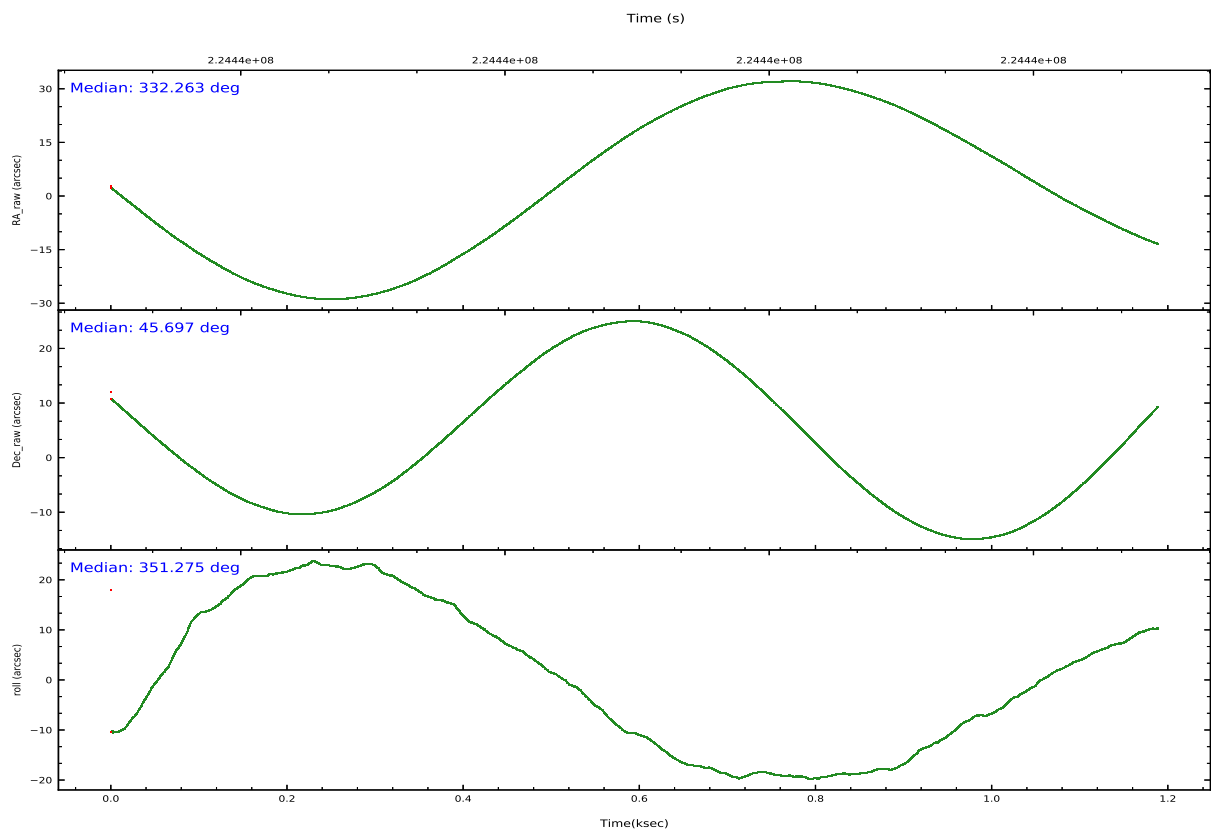
## 2.2 Compared Parameters

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	332.226340	332.25984459926
[deg] Pointing Dec	45.686685	45.694497735068
[deg] Pointing Roll	351.235472	351.2752857913
[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)	224441843.184000	224441466.60826
Observation start date	2005-02-10T16:56:19	2005-02-10T16:51:06
[s] Observation end time (MET)	224442843.184000	224442976.43333
Observation end date	2005-02-10T17:12:59	2005-02-10T17:16:16

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

## 2.3 Aspect





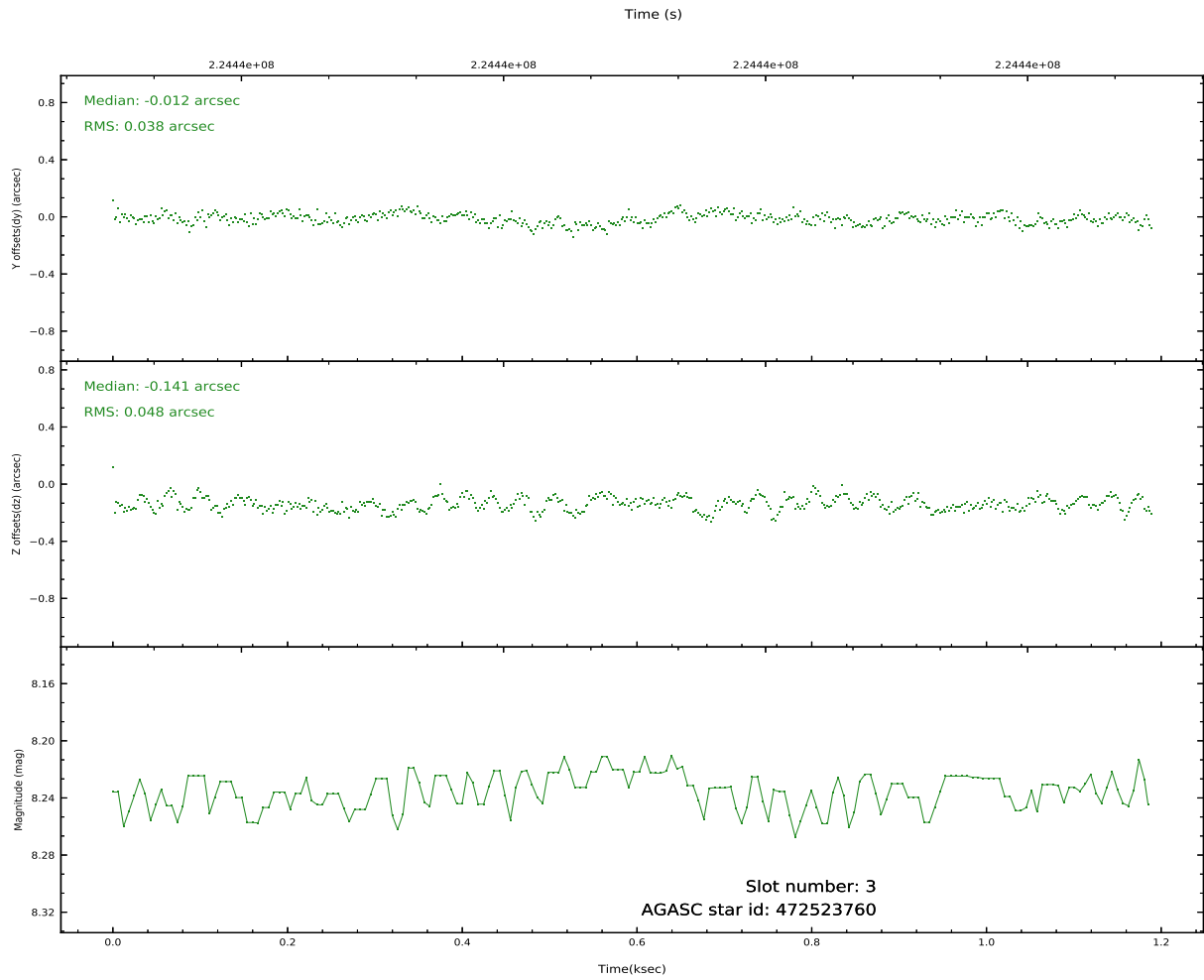
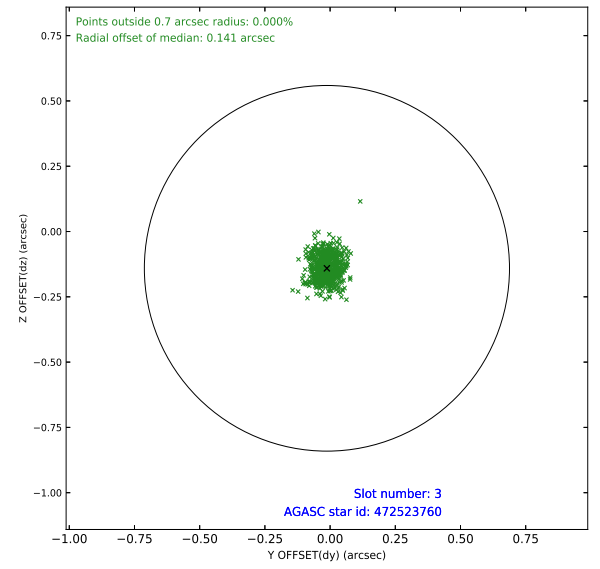
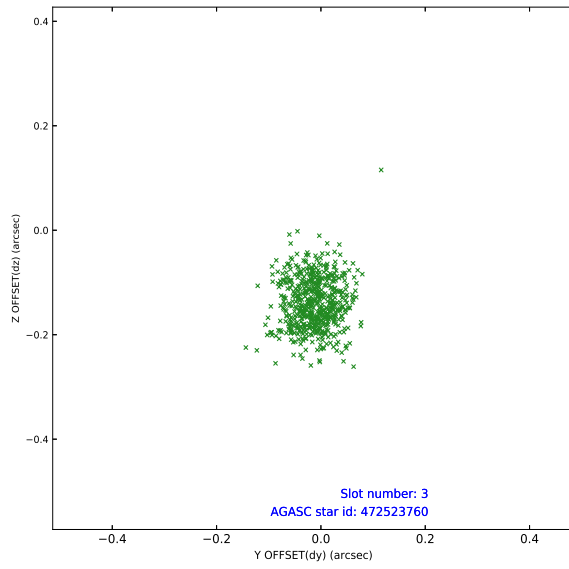
Slot Statistics

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	7.02	291	1.000	0.089	-0.180	0.006	0.012	0.000000	0.000000	-1161.03	-459
1	FID		HRC-S-2	7.02	291	1.000	0.212	-0.117	0.005	0.010	0.000000	0.000000	1234.78	-453
2	FID		HRC-S-3	7.03	291	1.000	0.091	-0.004	0.007	0.016	0.000000	0.000000	-1159.51	568
3	GUIDE	used	472523760	8.23	581	1.000	-0.012	-0.141	0.064	0.101	331.645363	45.403260	-1295.93	-1223
4	GUIDE	used	472527720	6.98	581	1.000	-0.128	-0.104	0.057	0.097	331.460205	45.112509	-1611.61	-2328
5	GUIDE	used	472535576	7.86	581	1.000	-0.043	0.084	0.054	0.092	331.438373	46.291802	-2272.95	1864
6	GUIDE	used	472655152	9.42	581	1.000	0.222	0.079	0.093	0.166	332.504239	45.862991	588.66	742
7	GUIDE	used	472665256	9.01	580	1.000	-0.041	0.087	0.094	0.154	332.808125	46.195041	1154.73	2040

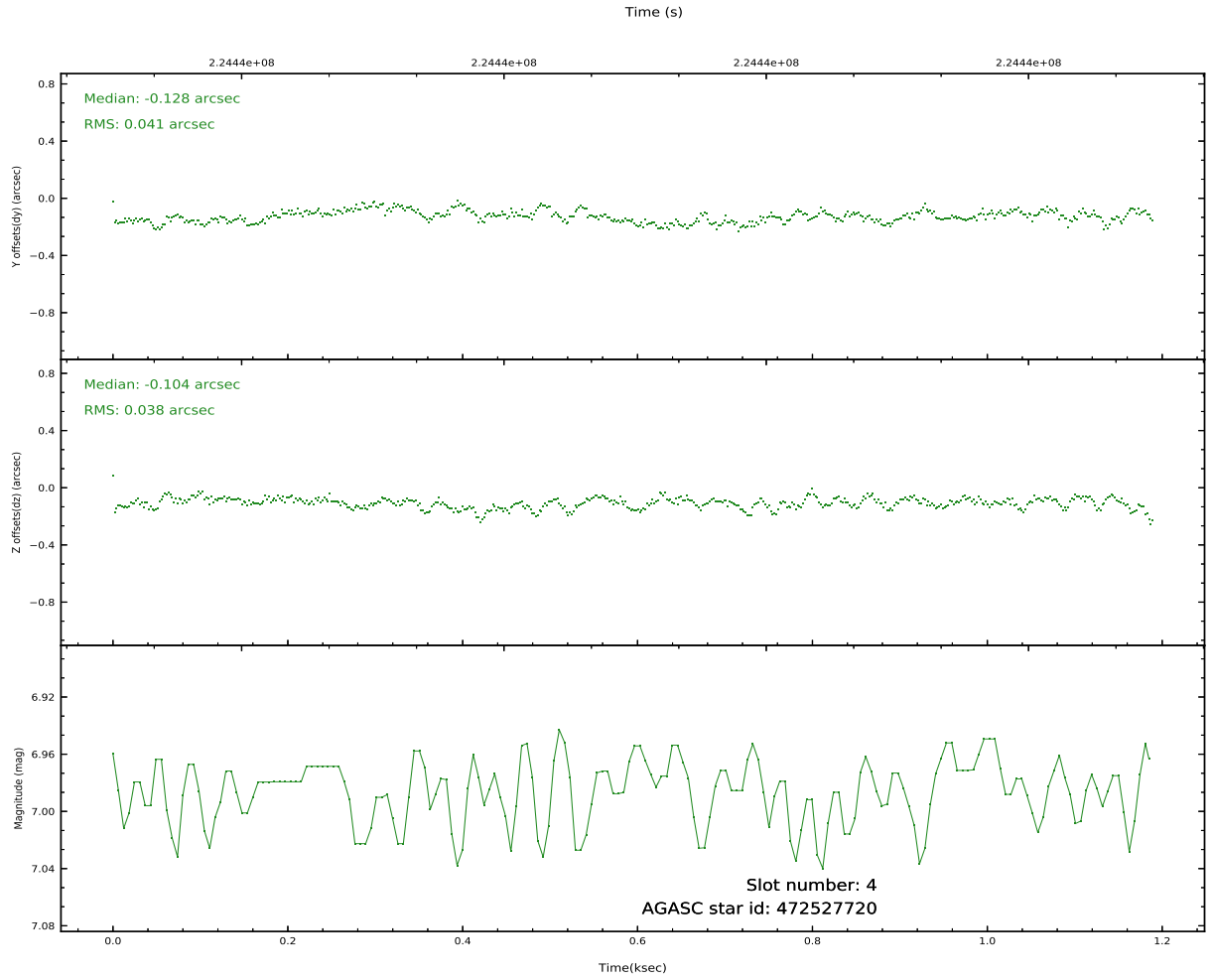
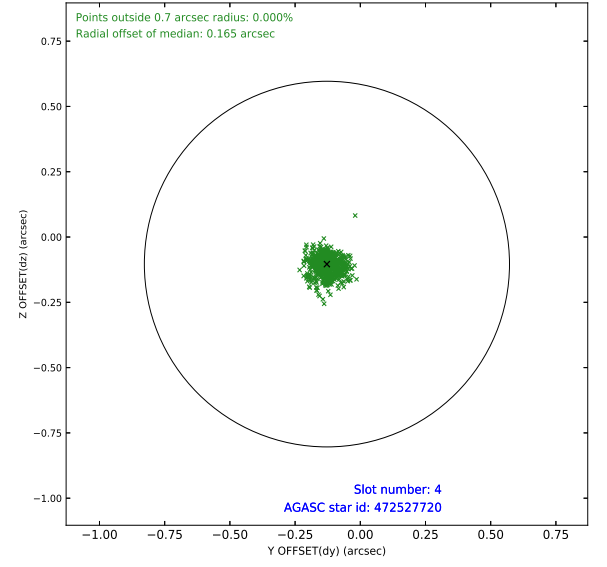
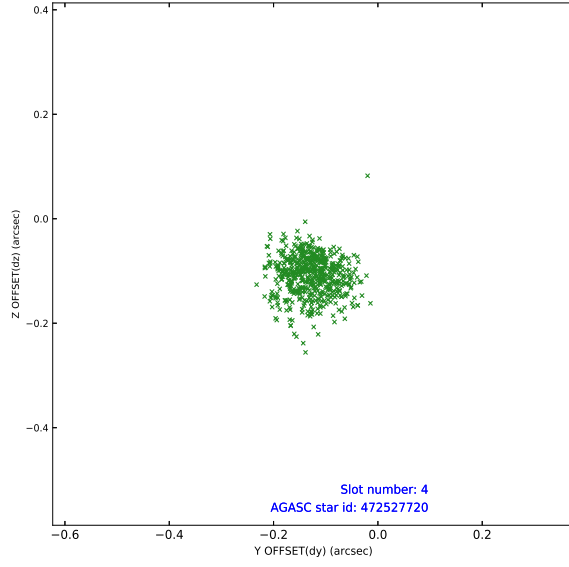


## 2.4 Star Slots

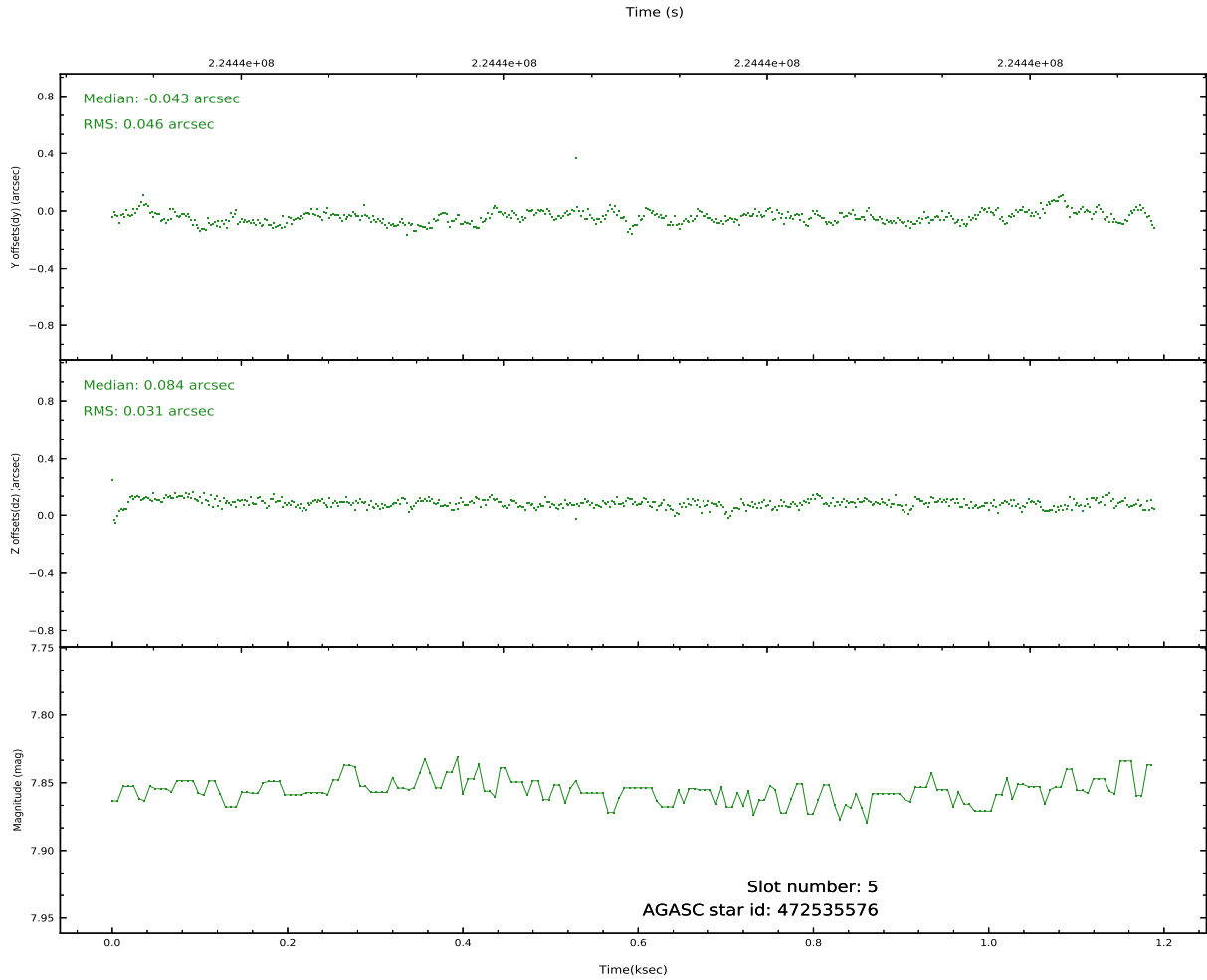
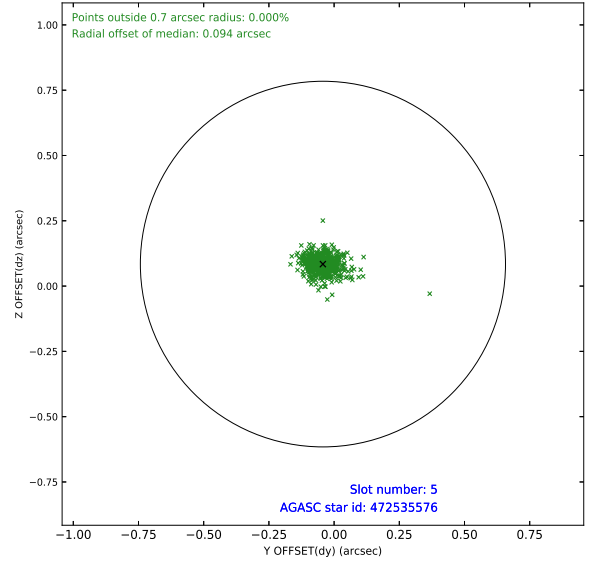
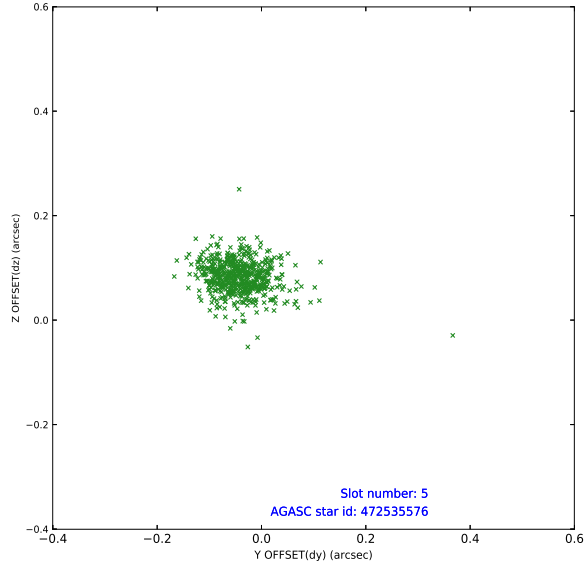
### 2.4.1 Slot 3



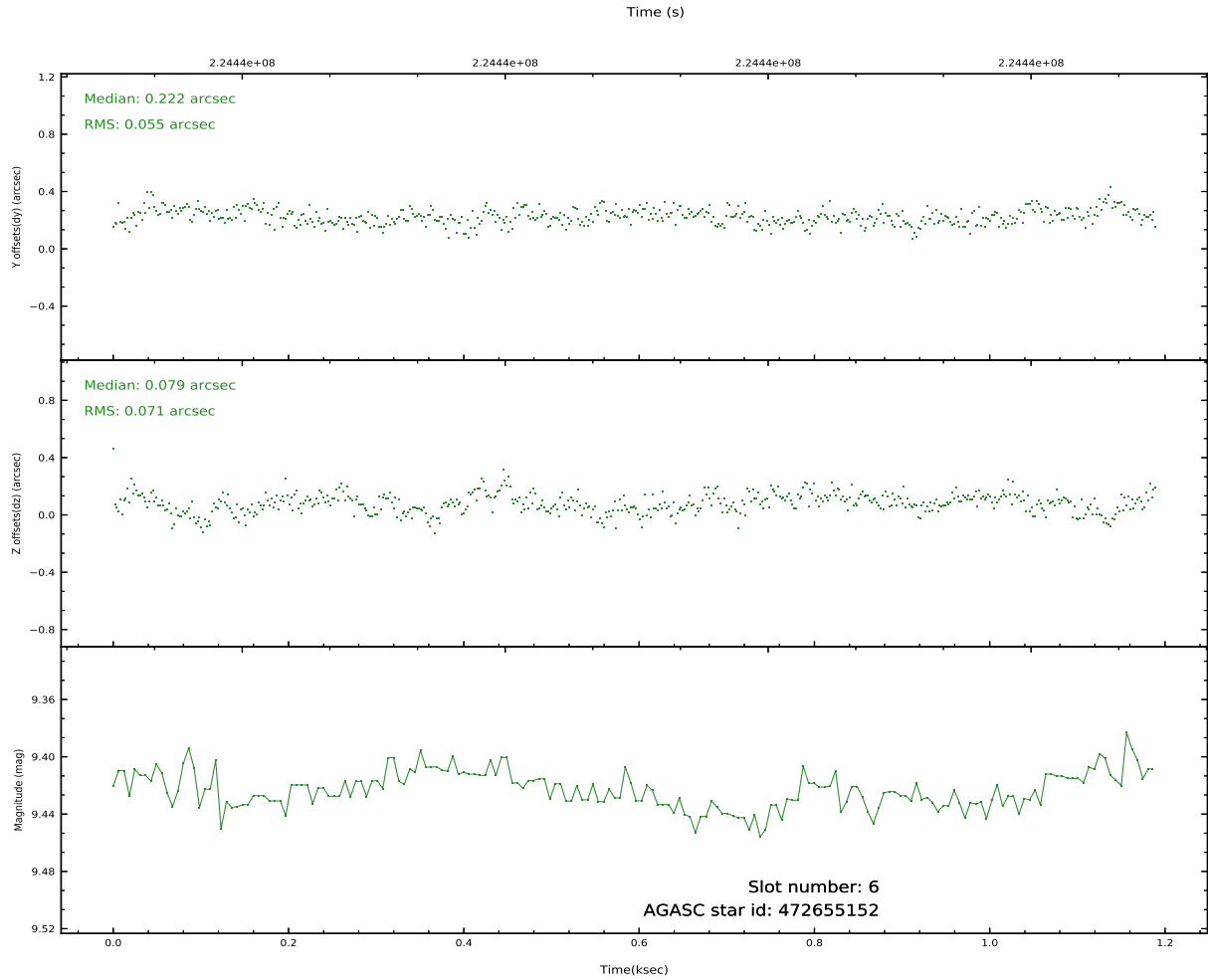
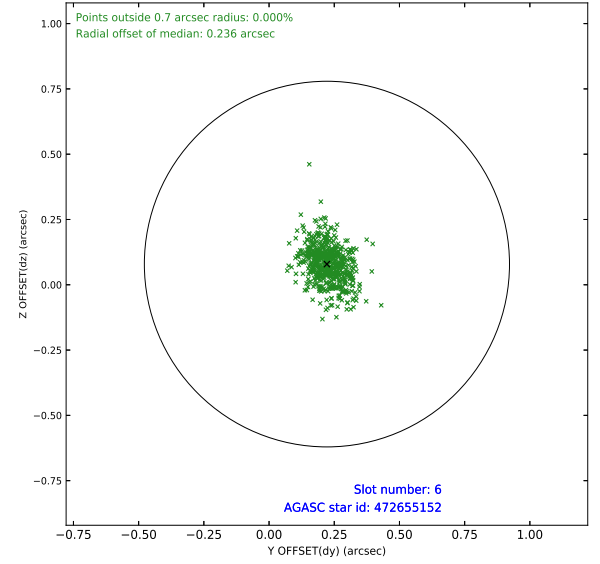
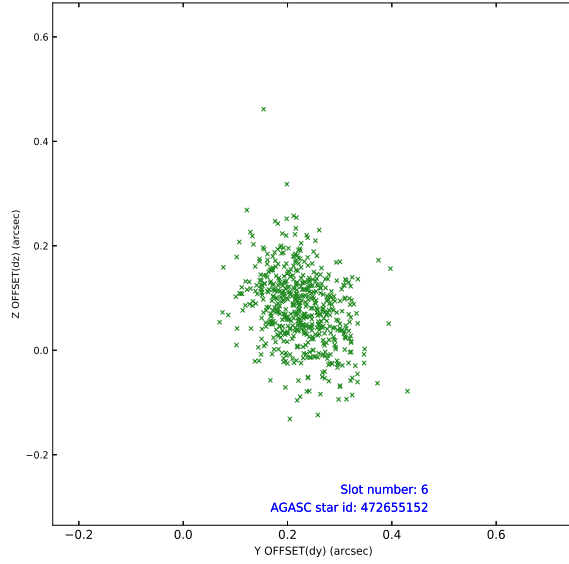
## 2.4.2 Slot 4



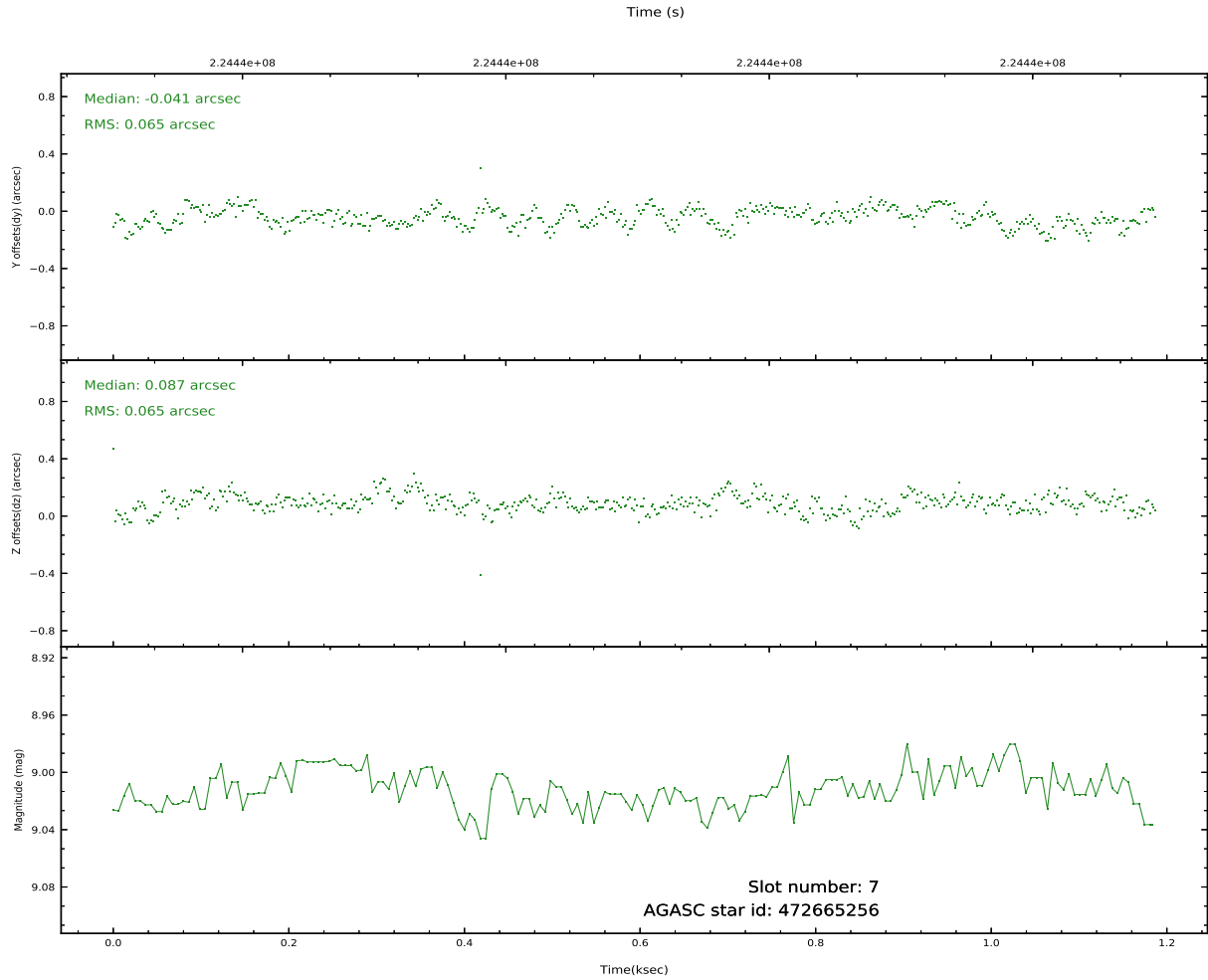
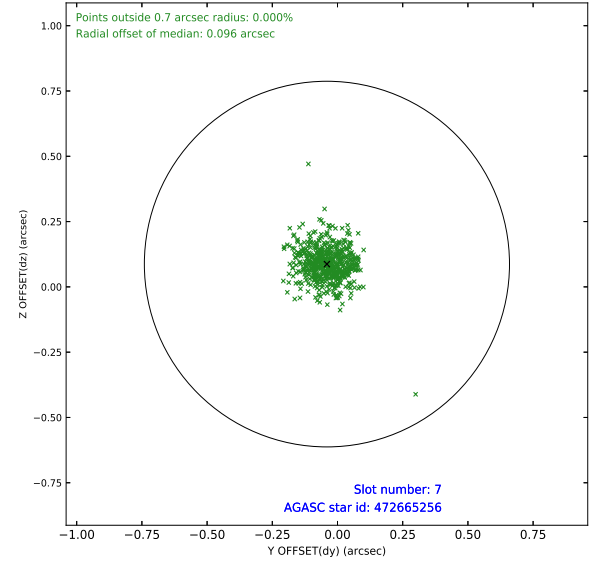
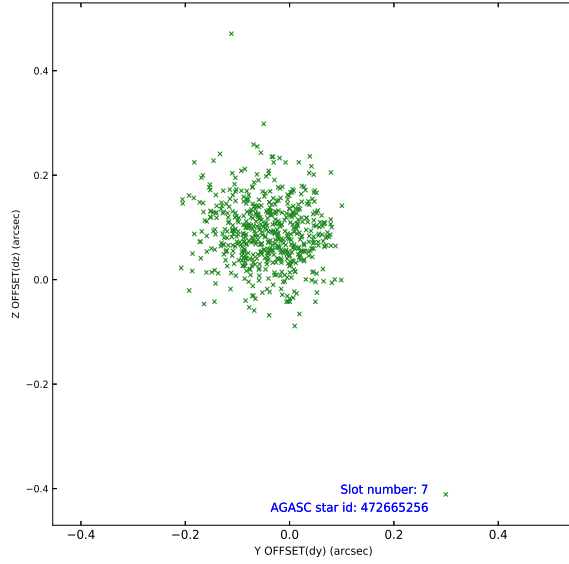
### 2.4.3 Slot 5



## 2.4.4 Slot 6

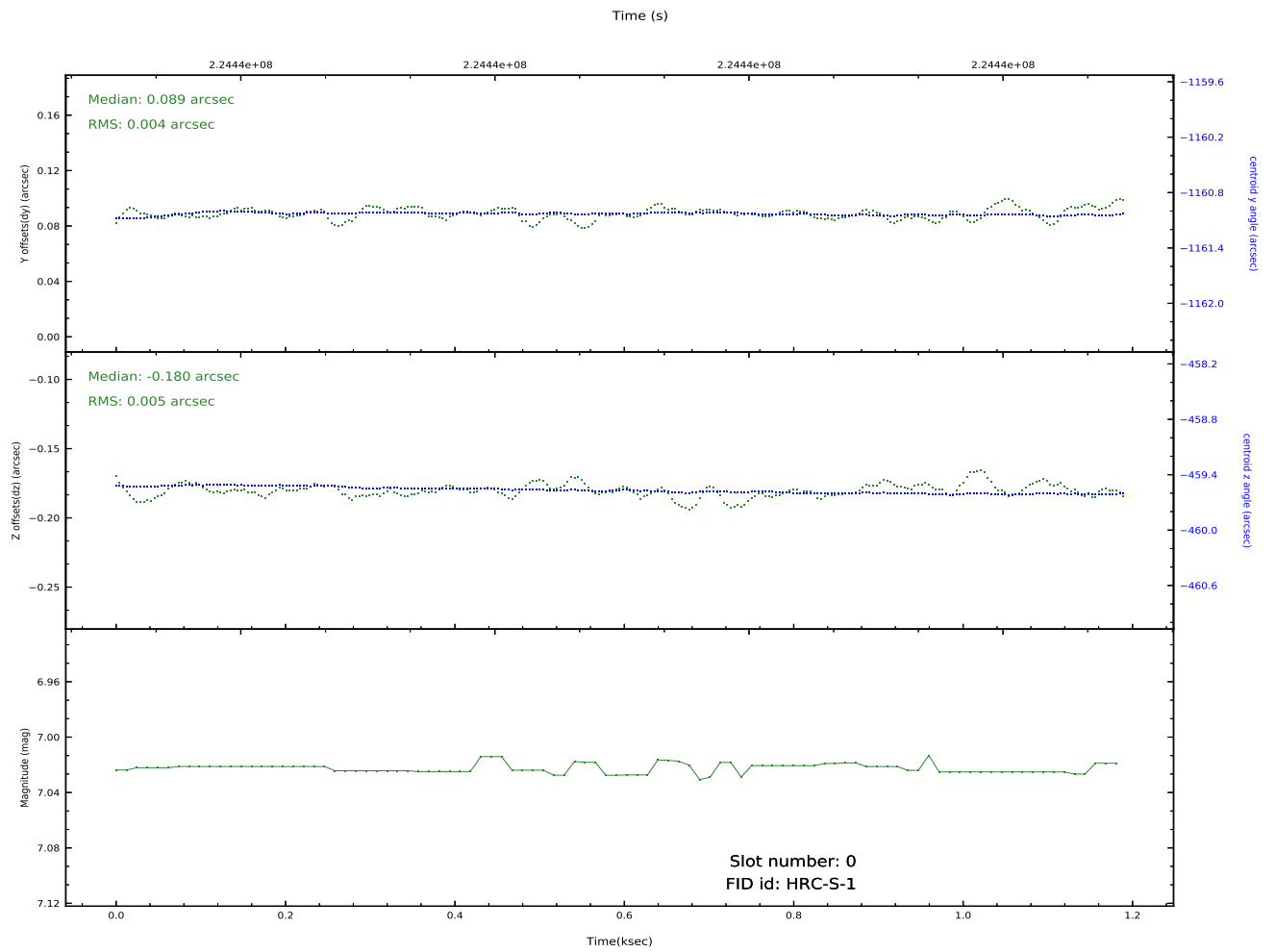
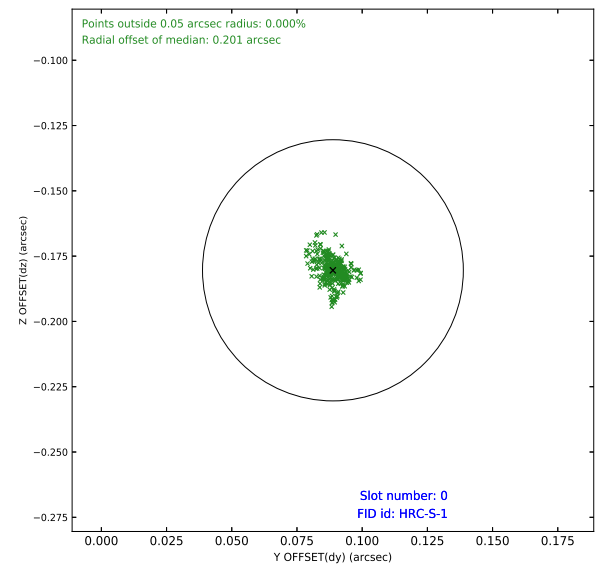
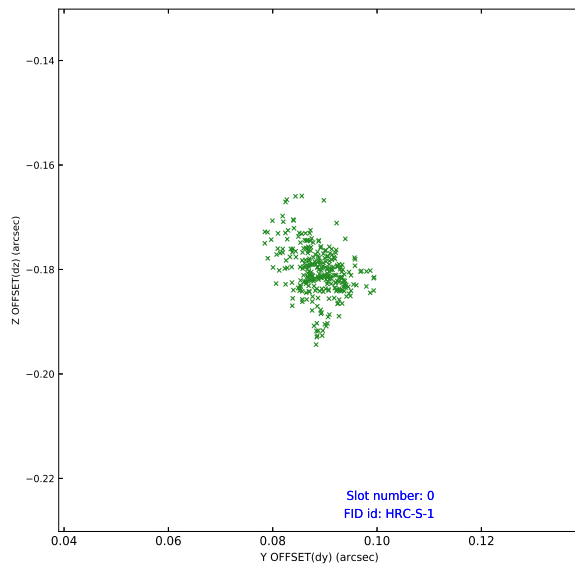


## 2.4.5 Slot 7

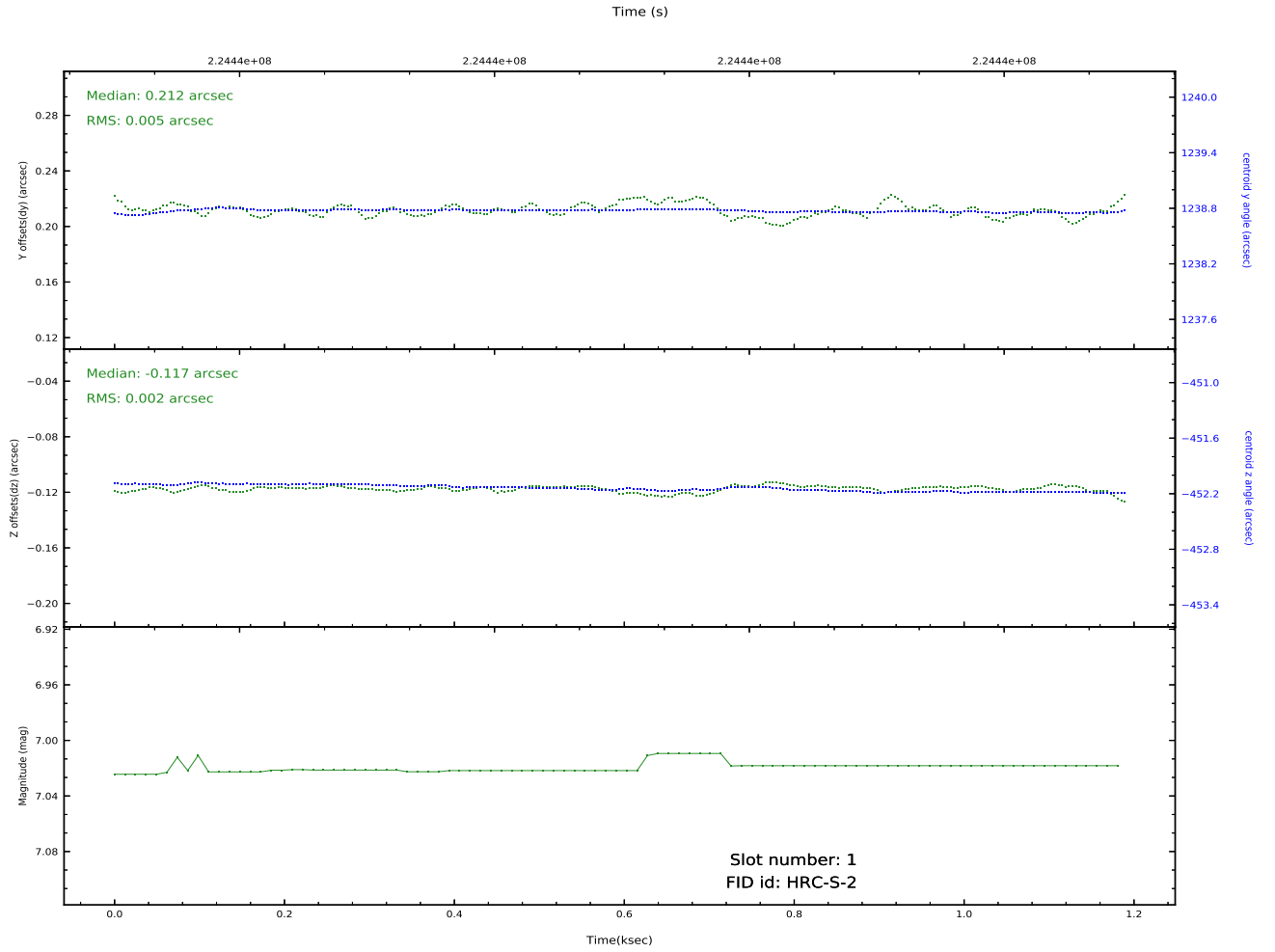
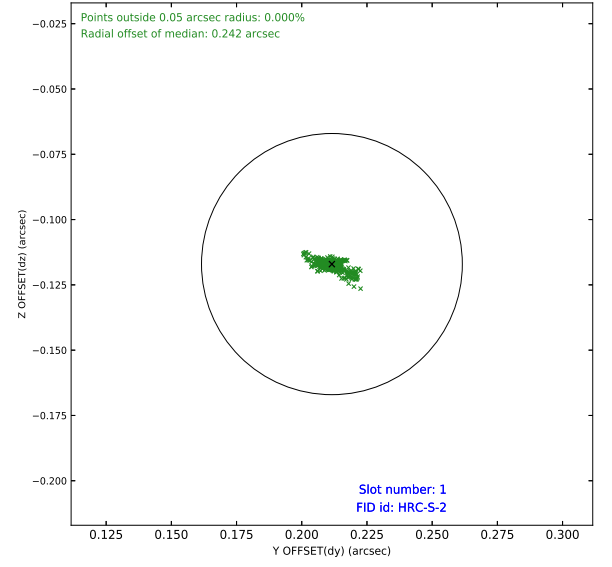
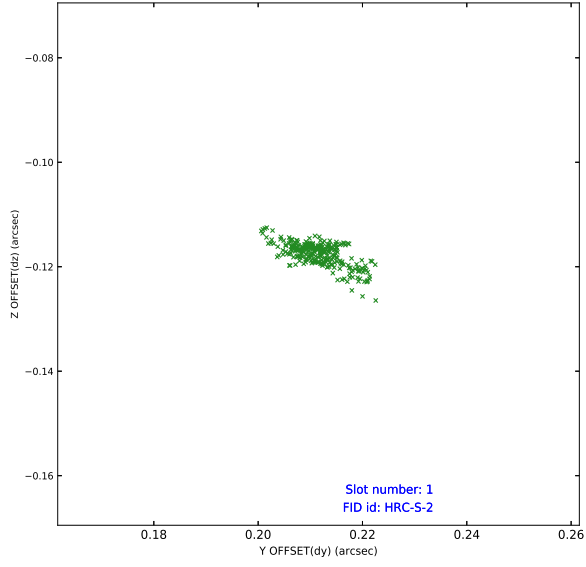


## 2.5 FID Slots

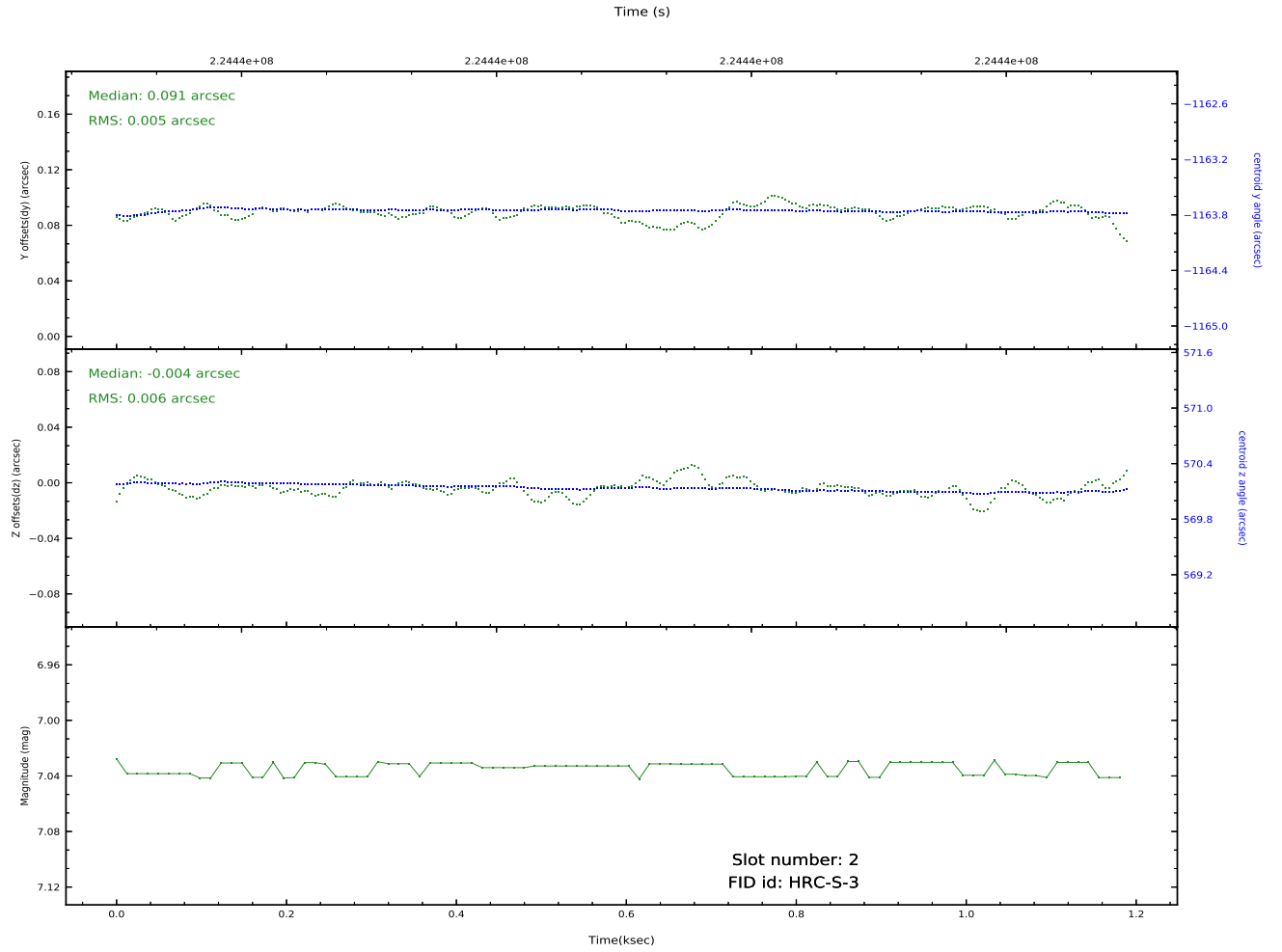
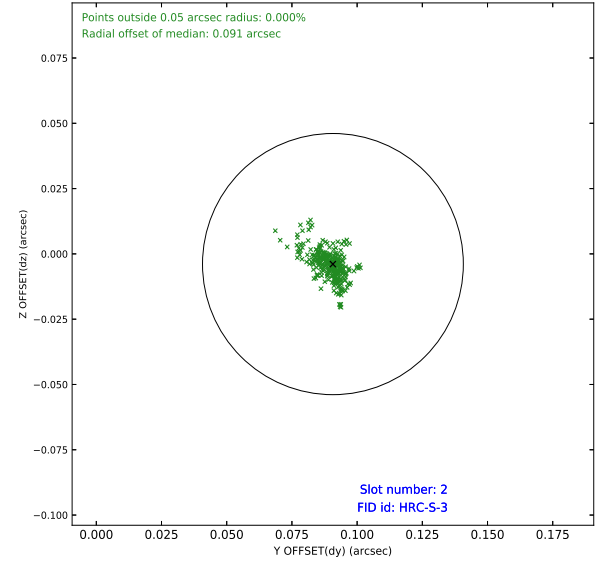
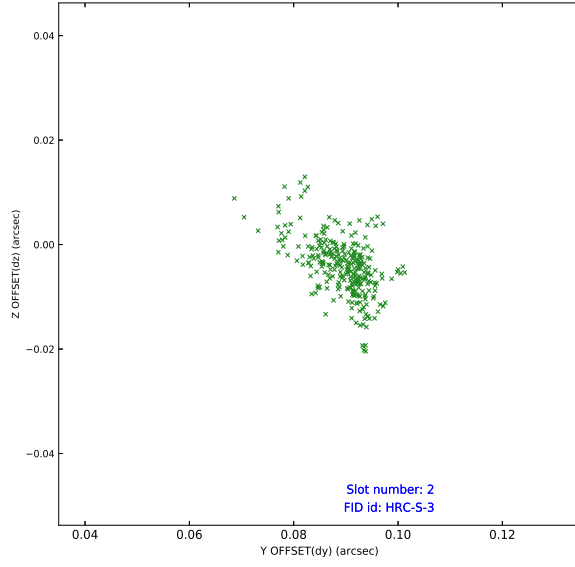
### 2.5.1 Slot 0



## 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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.157481

## 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.