

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5978 - L2 Version 5  
Chandra X-Ray Center

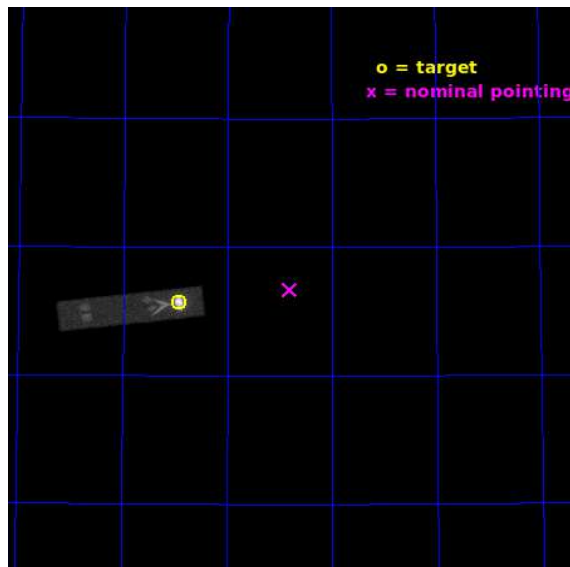
L2 Processing Date : Oct 8 2020

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# 1 Front

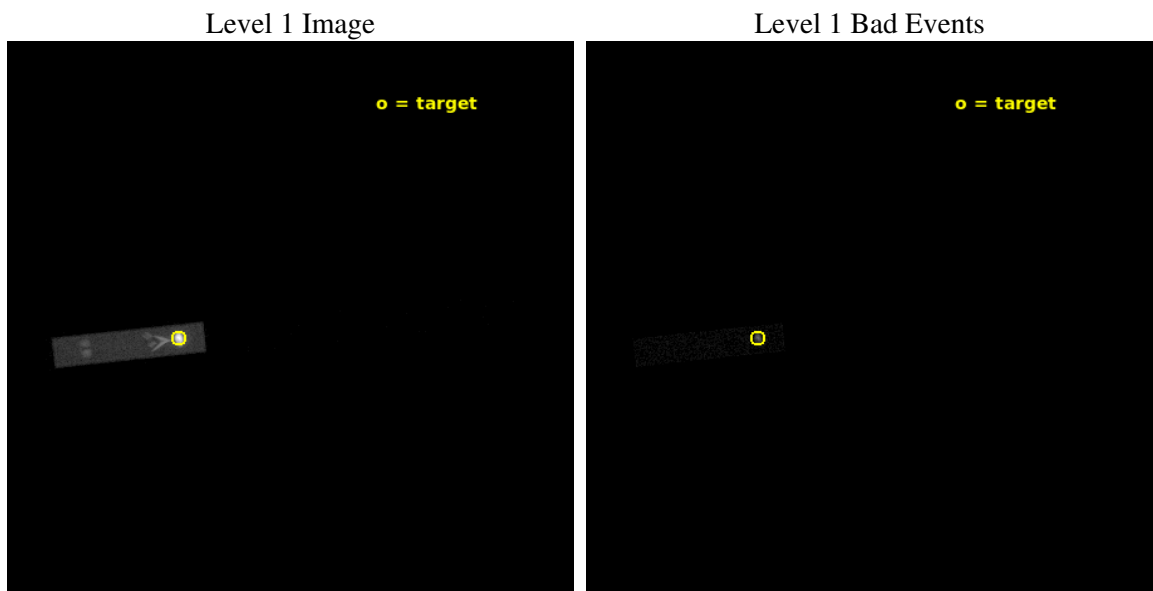
seq_num	290470	Sequence number
obs_id	5978	Observation id
title	AO6 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	278.70095072565	Nominal RA [deg]
dec_nom	38.835176904466	Nominal Dec [deg]
roll_nom	173.57567526001	Nominal Roll [deg]
revision	5	Processing version of data
ontime	2182.2250997126	[s]
livetime	846.89590429351	Ontime multiplied by DTCOR
l2events	390143	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2182.2250997126	[s]
caldsver	4.9.2	&#160	l1events	443307	Number of level 1 events
date	2020-10-09T00:38:17	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

Level 1 Events

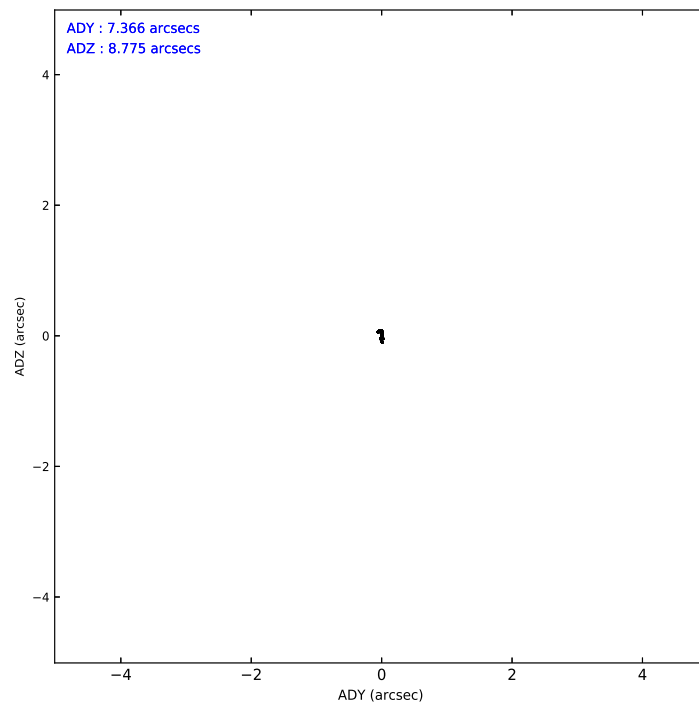
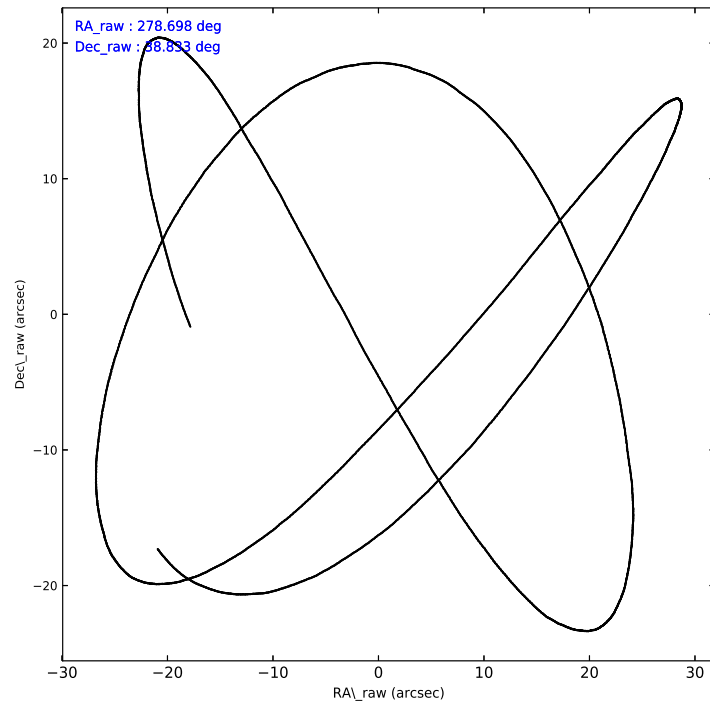
	segment 1	segment 2	segment 3
level 1 events	443288	8	11
rejected events	40909	8	11
rejected %	9%	100%	100%

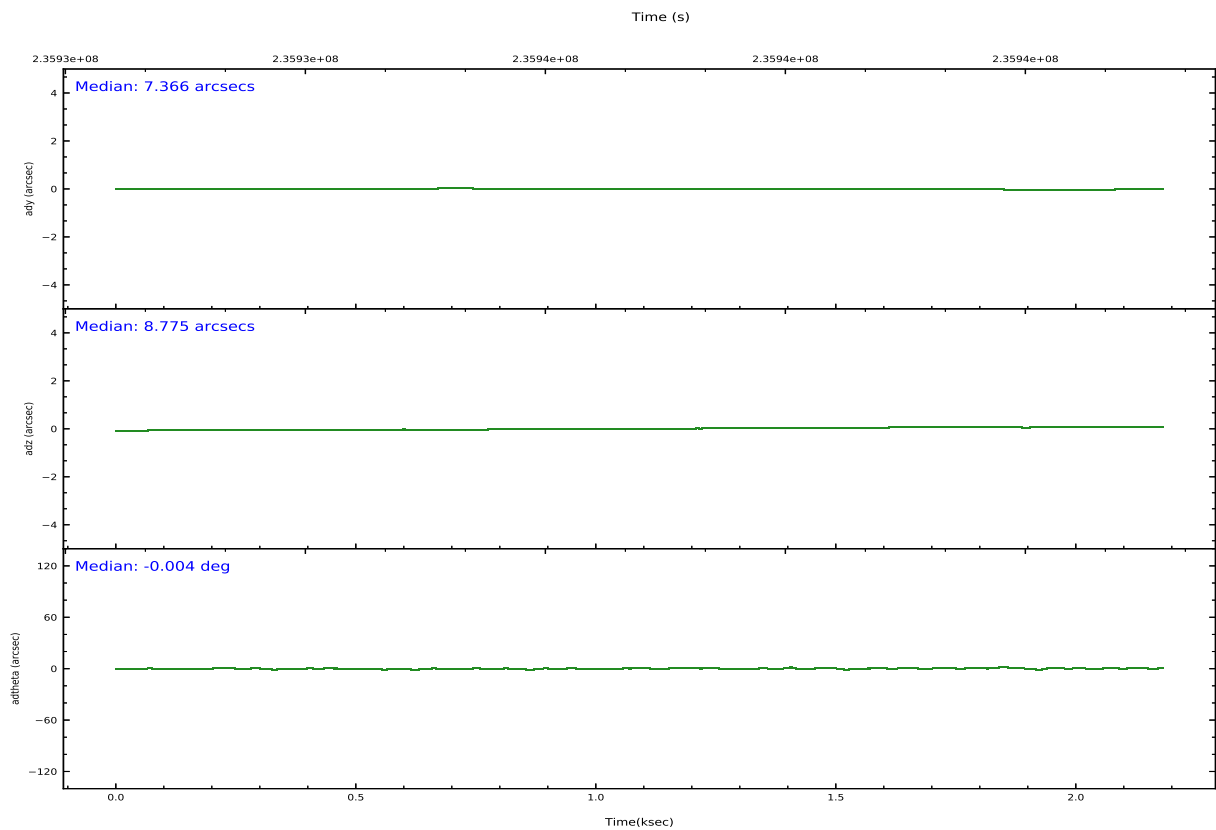
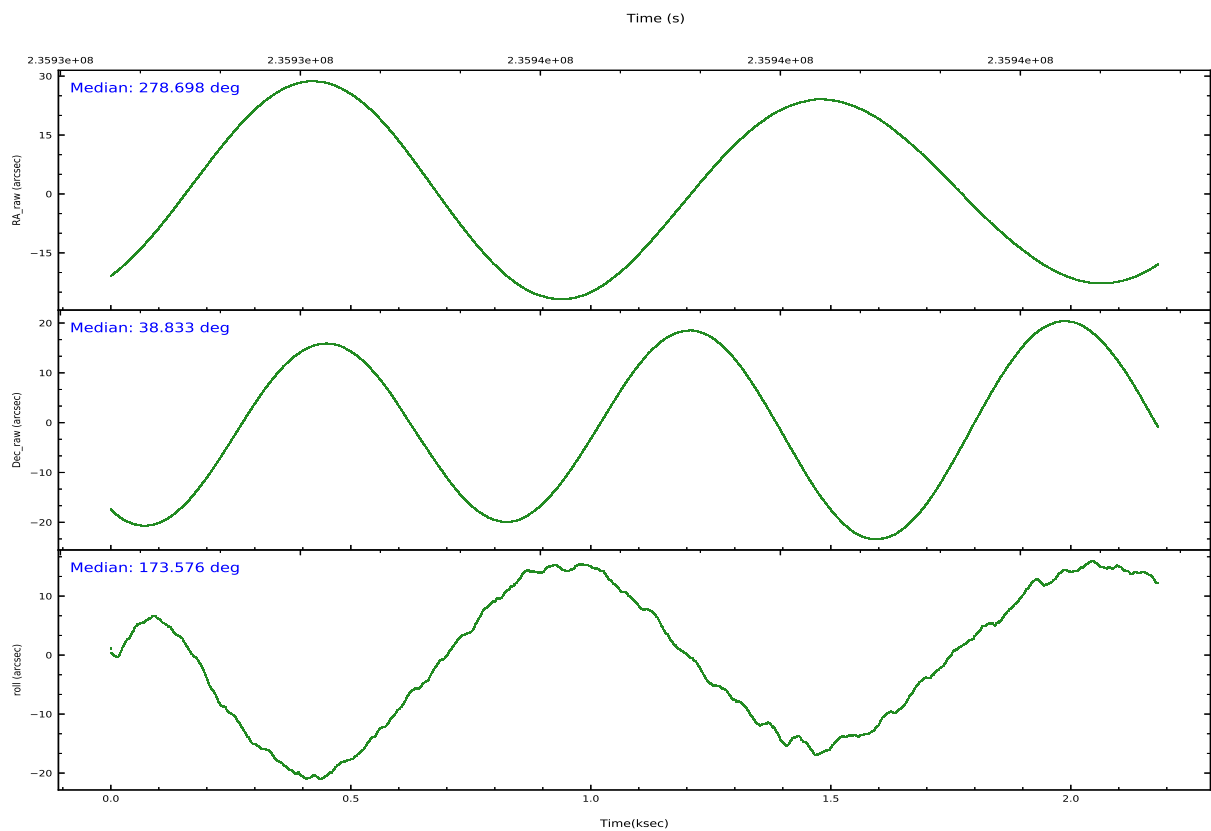
## 2.2 Compared Parameters

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	278.730844	278.70095072565
[deg] Pointing Dec	38.845496	38.835176904466
[deg] Pointing Roll	173.487248	173.57567526001
[s] Window start time (MET)	231292864.184000	231292864.184000
[s] Window stop time (MET)	236476864.184000	236476864.184000
[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)	235934287.184000	235933910.6307
Observation start date	2005-06-23T17:17:03	2005-06-23T17:11:50
[s] Observation end time (MET)	235936287.184000	235937653.93087
Observation end date	2005-06-23T17:50:23	2005-06-23T18:14:13

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

## 2.3 Aspect





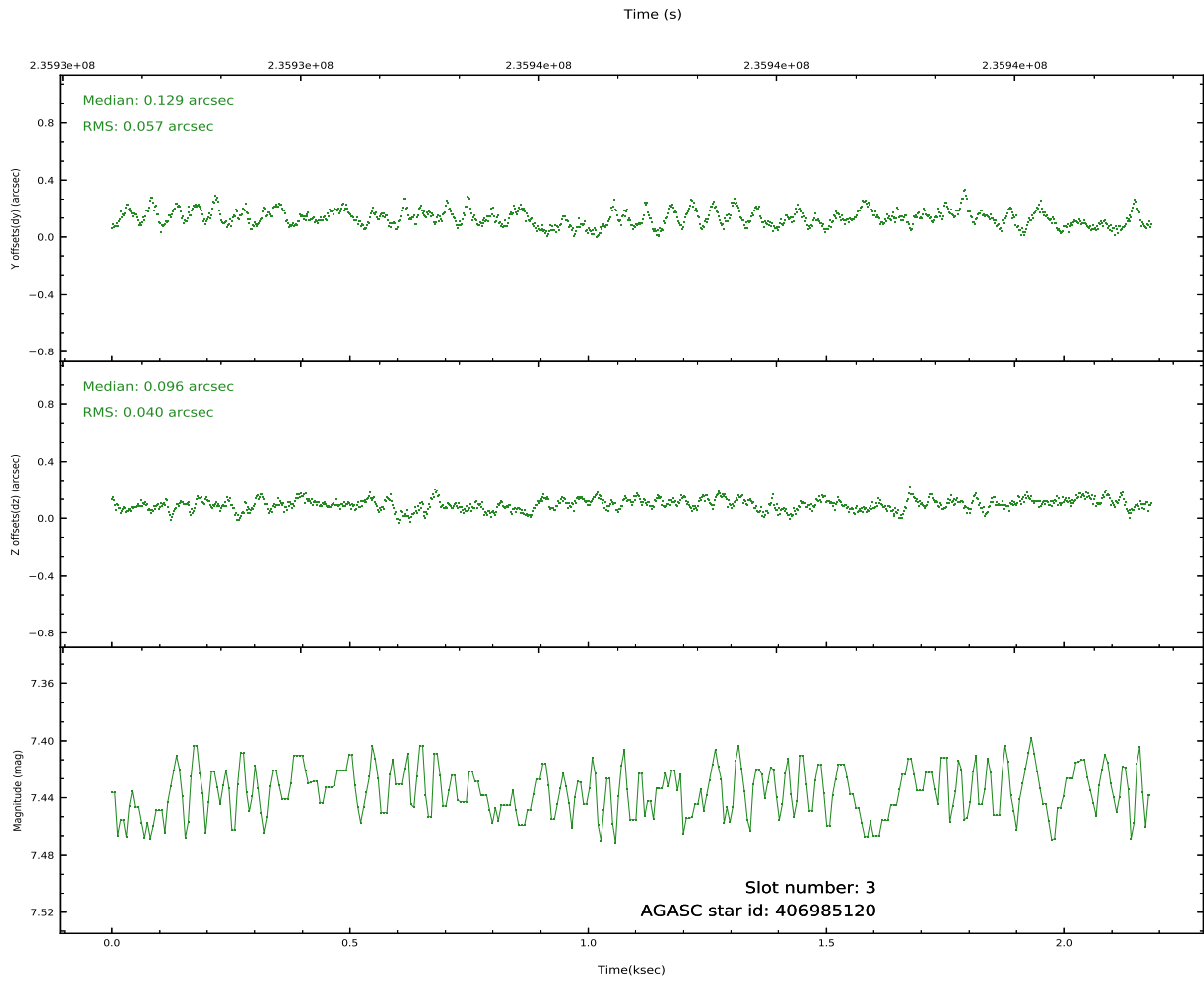
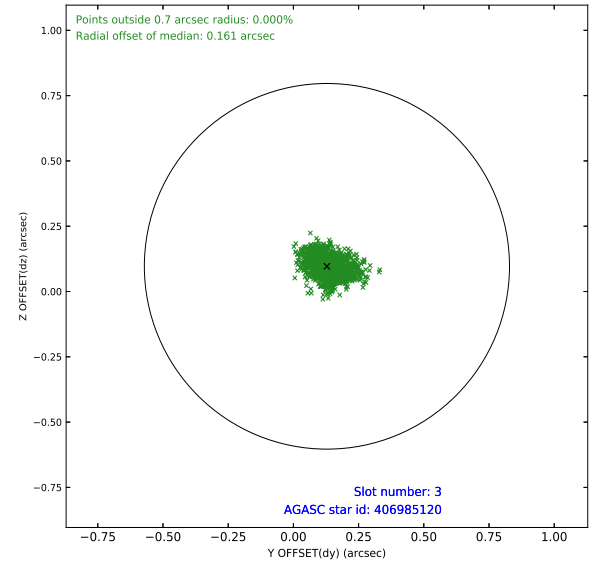
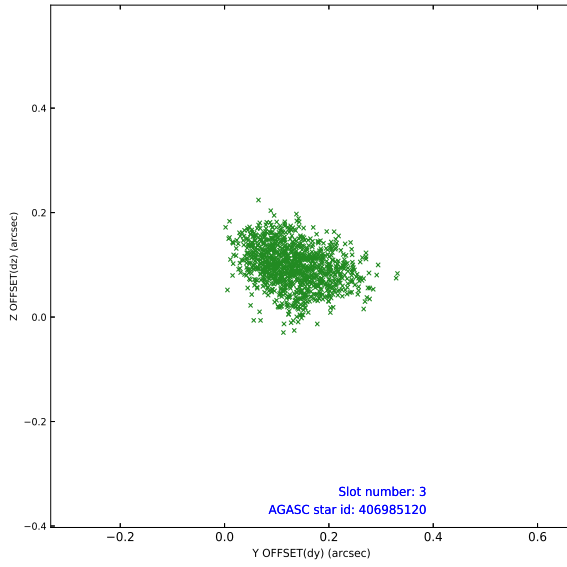
Slot Statistics

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	533	1.000	0.107	-0.167	0.006	0.010	0.000000	0.000000	-1161.54	-457
1	FID		HRC-S-2	7.03	533	1.000	0.206	-0.123	0.005	0.009	0.000000	0.000000	1236.06	-450
2	FID		HRC-S-3	7.04	533	1.000	0.077	-0.012	0.007	0.011	0.000000	0.000000	-1161.99	571
3	GUIDE	used	406985120	7.44	1066	1.000	0.129	0.096	0.075	0.118	278.839732	38.894839	-282.70	-210
4	GUIDE	used	406987272	6.92	1066	1.000	-0.095	-0.094	0.056	0.086	278.536588	38.437504	377.51	1520
5	GUIDE	used	406987656	8.70	1066	1.000	0.085	0.106	0.063	0.101	277.865333	38.378958	2238.12	1936
6	GUIDE	used	406989616	8.23	1065	1.000	0.031	-0.042	0.069	0.111	279.202881	38.520843	-1450.98	1009
7	GUIDE	used	407521232	8.63	1065	1.000	-0.152	-0.065	0.084	0.130	279.628883	39.431715	-2241.56	-2390

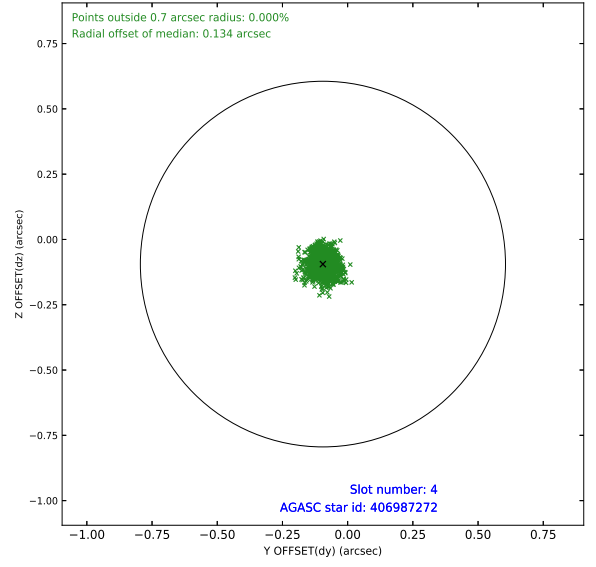
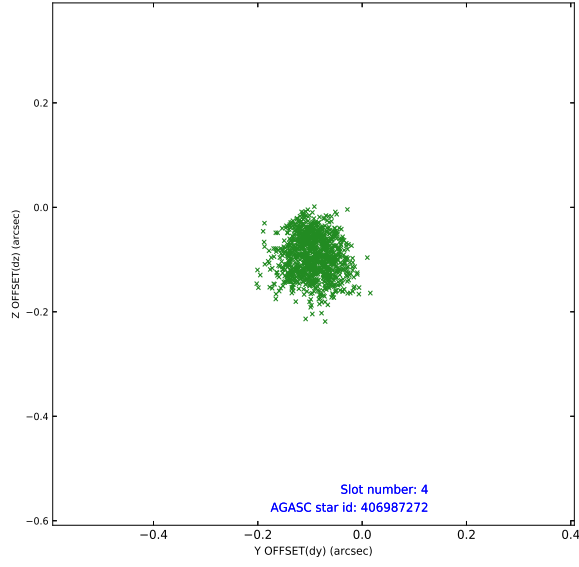


## 2.4 Star Slots

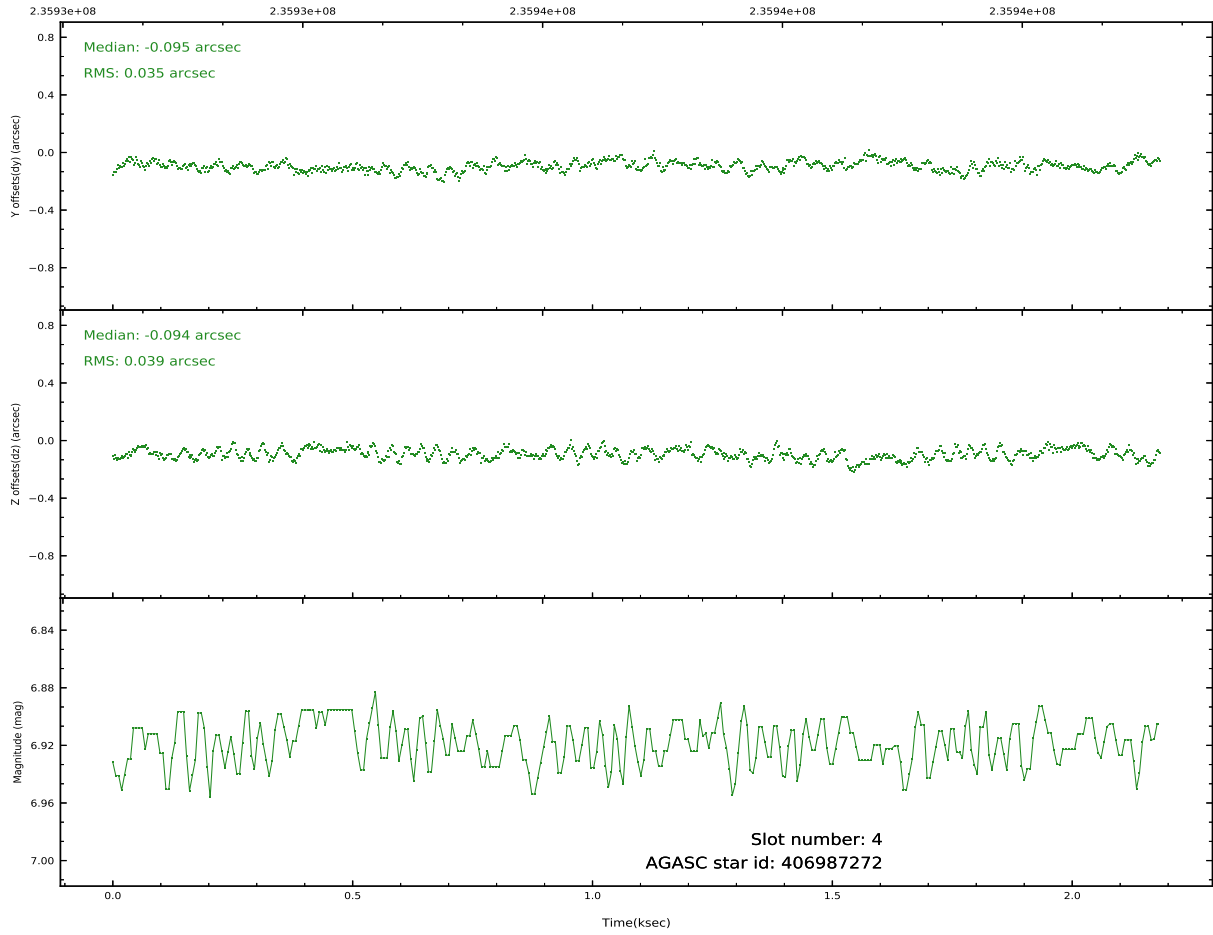
### 2.4.1 Slot 3



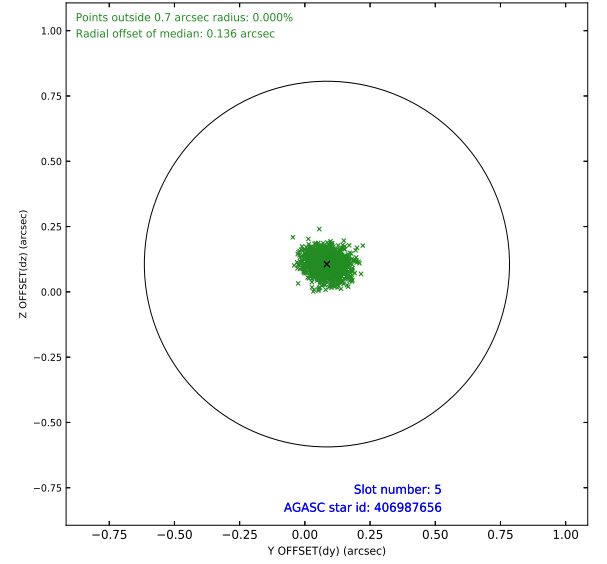
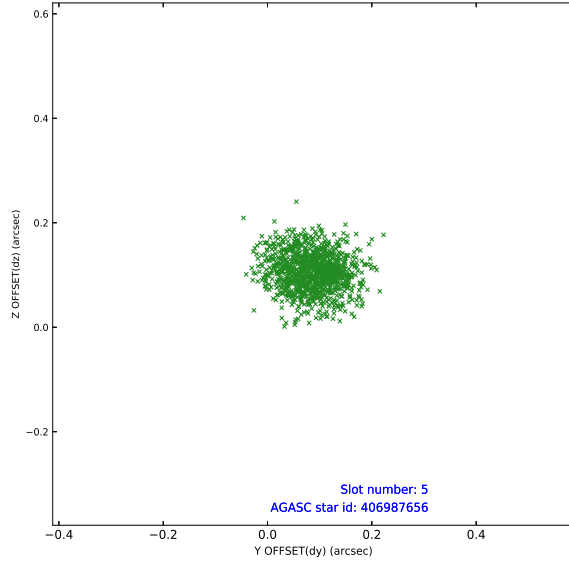
## 2.4.2 Slot 4



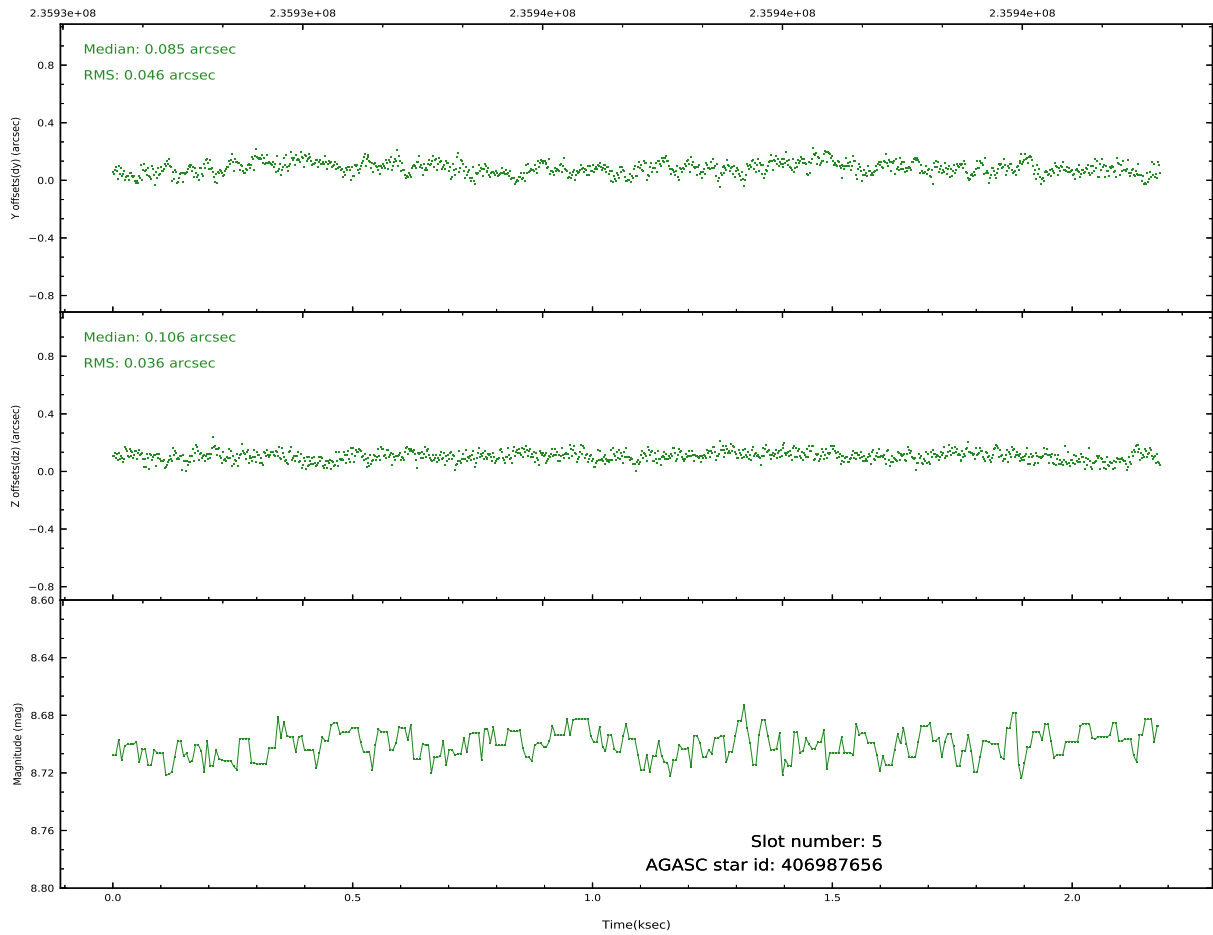
Time (s)



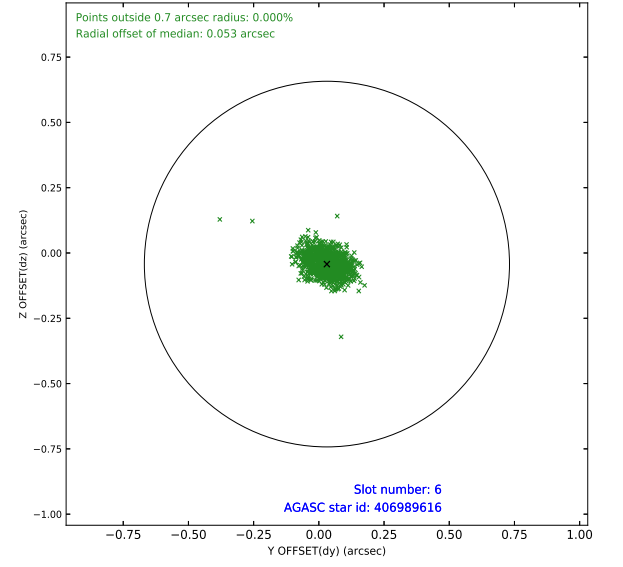
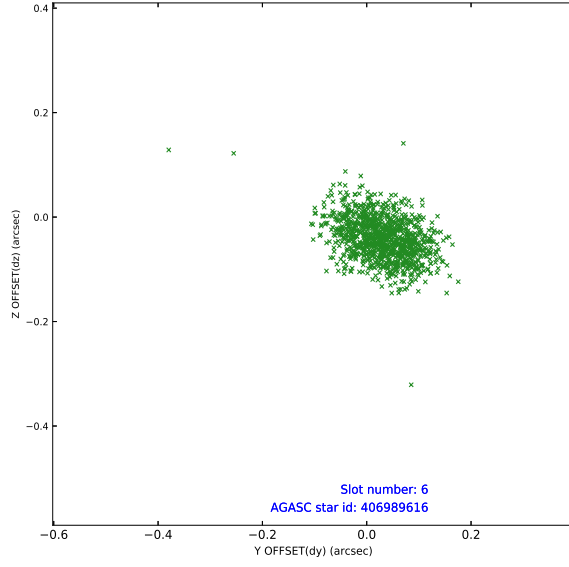
### 2.4.3 Slot 5



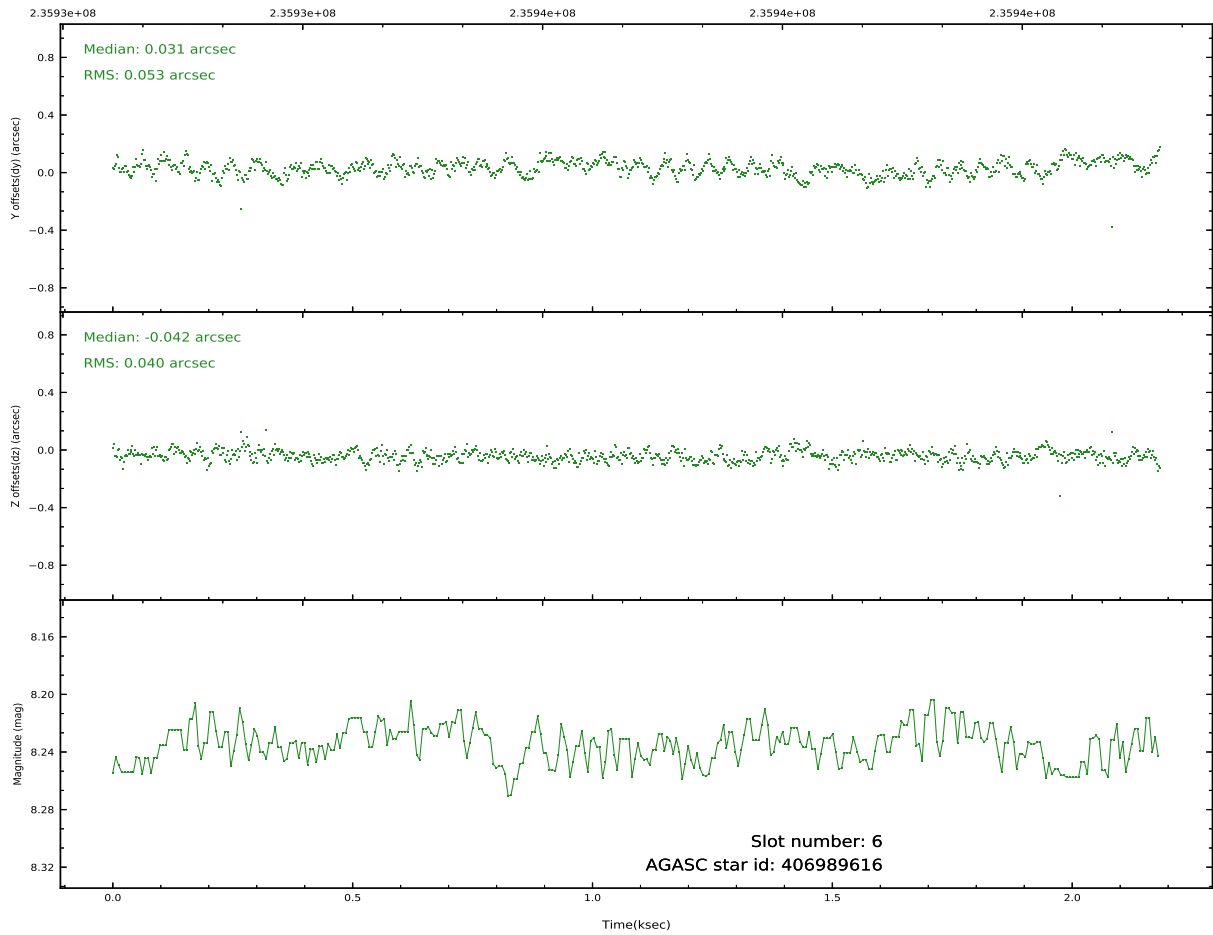
Time (s)



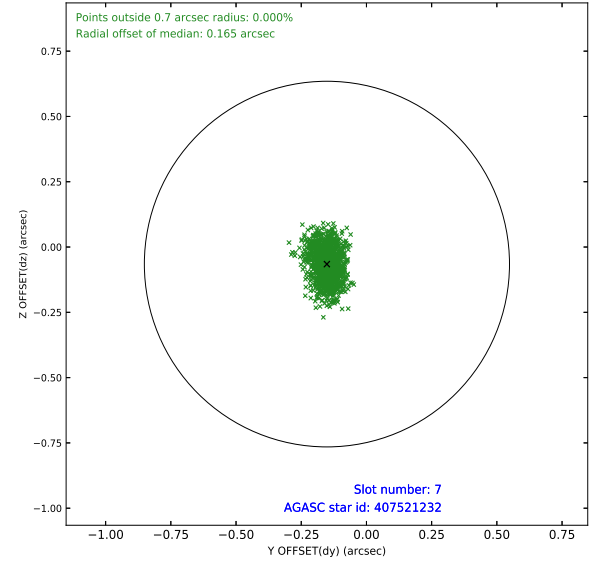
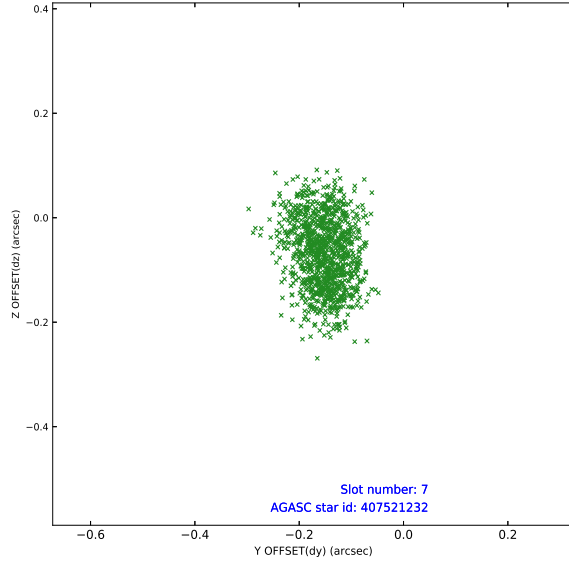
## 2.4.4 Slot 6



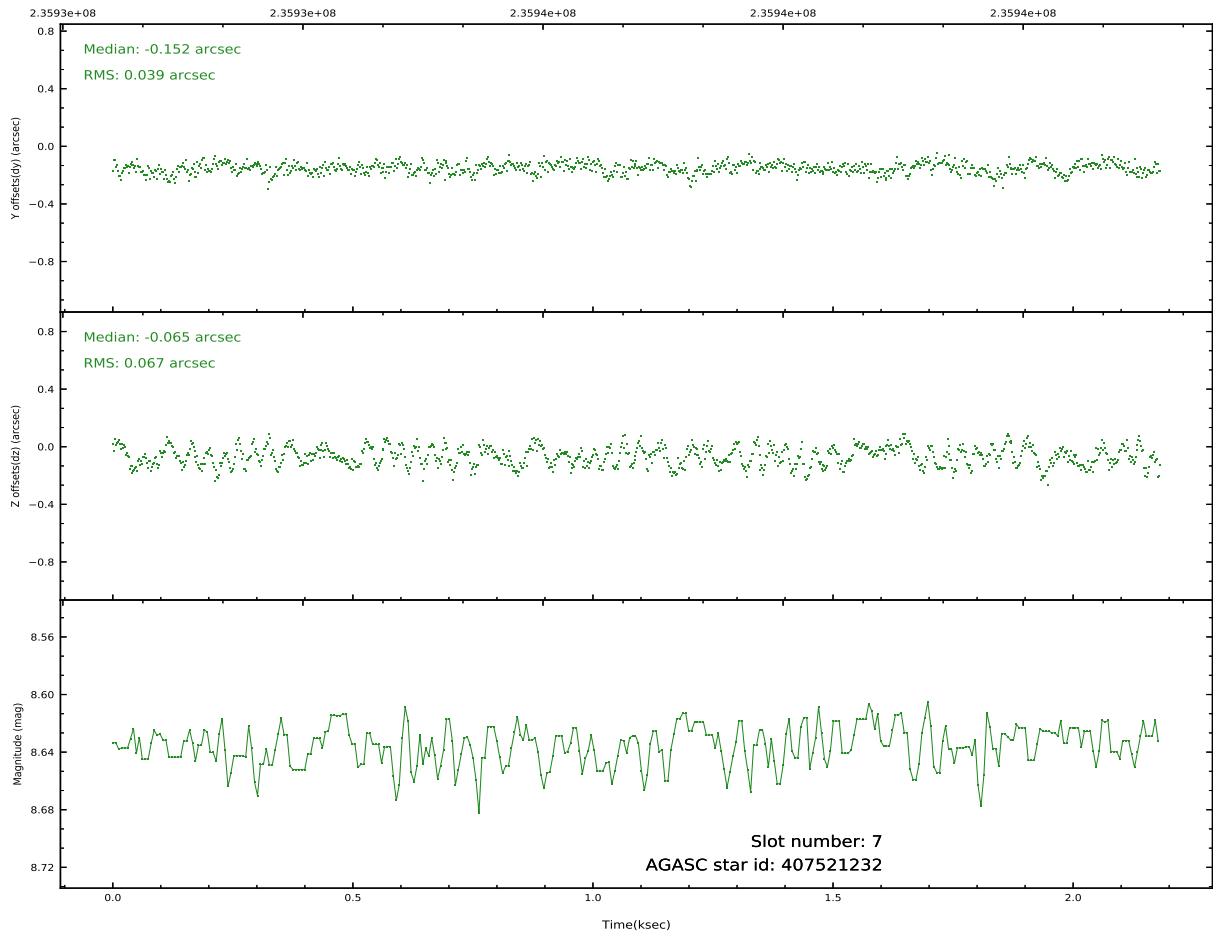
Time (s)



## 2.4.5 Slot 7

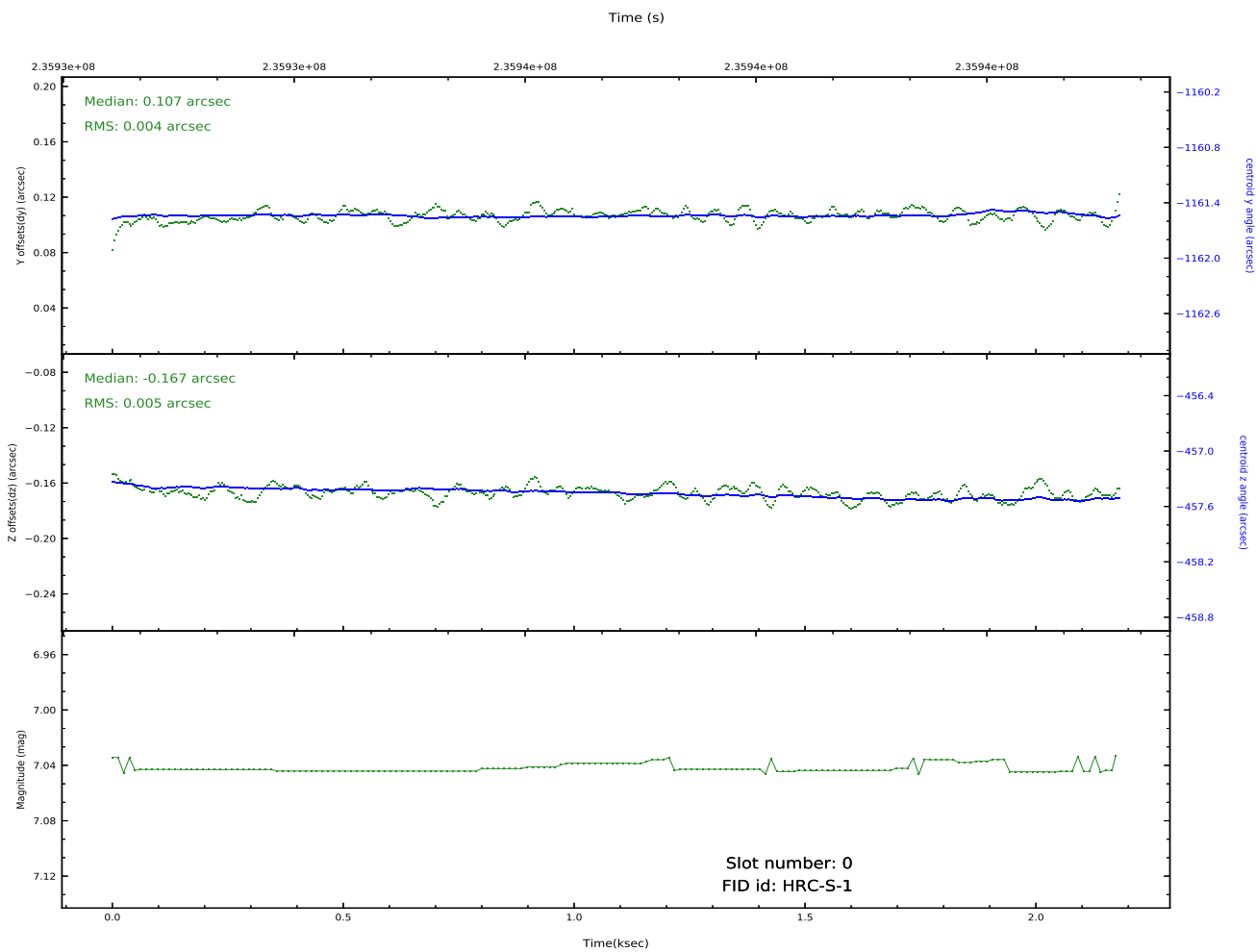
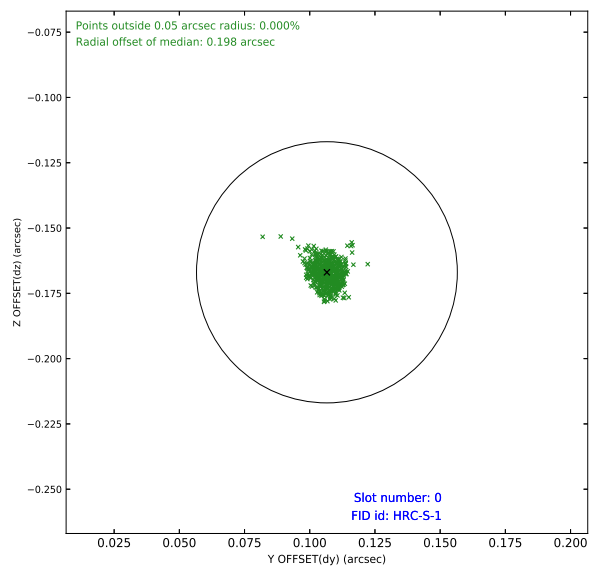
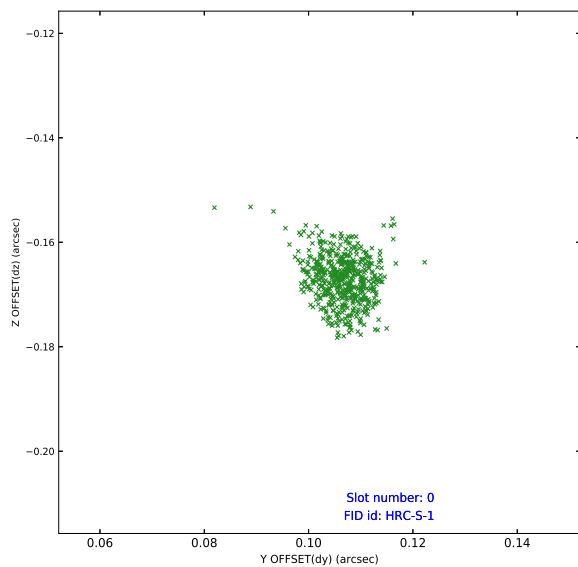


Time (s)

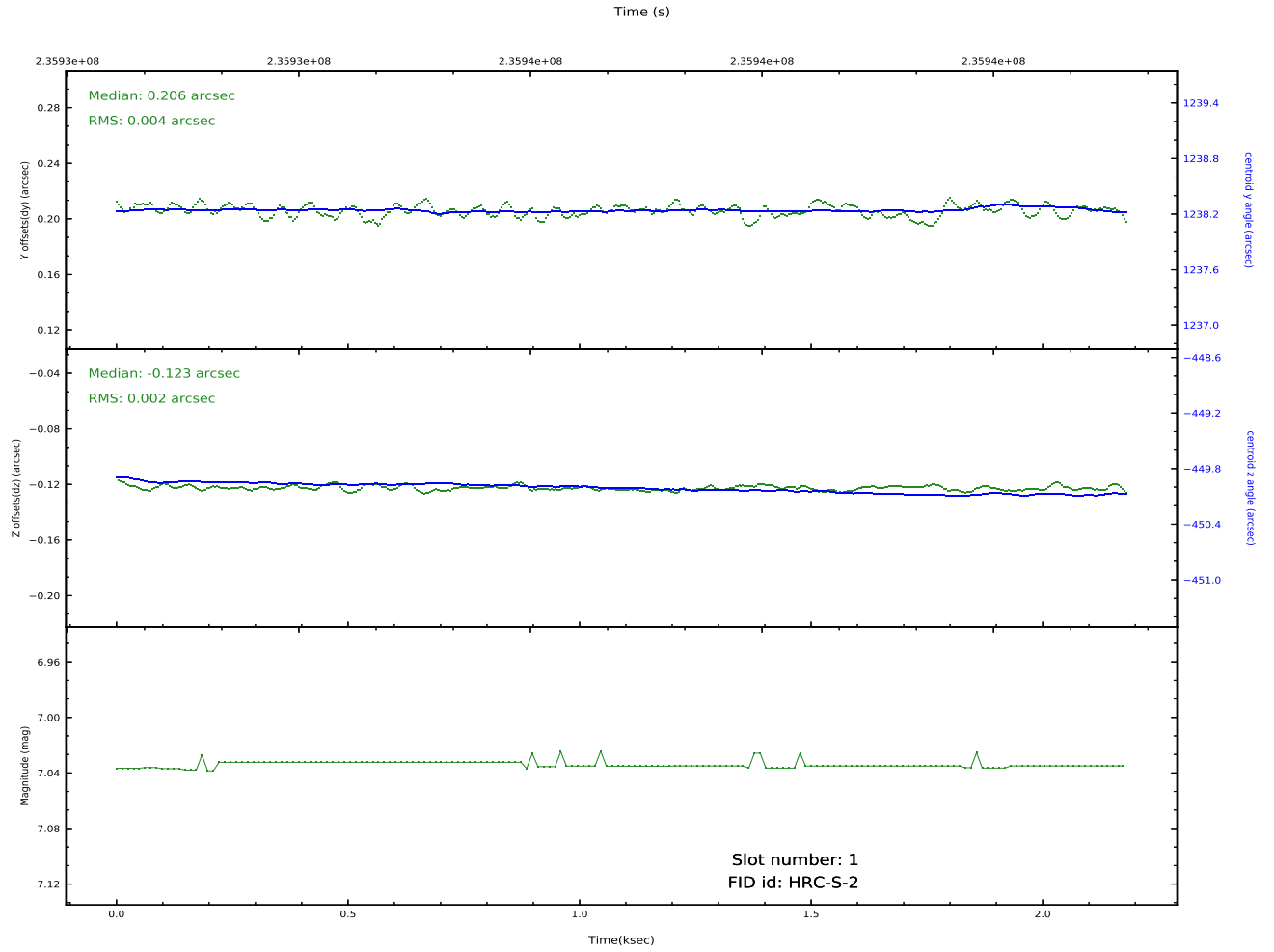
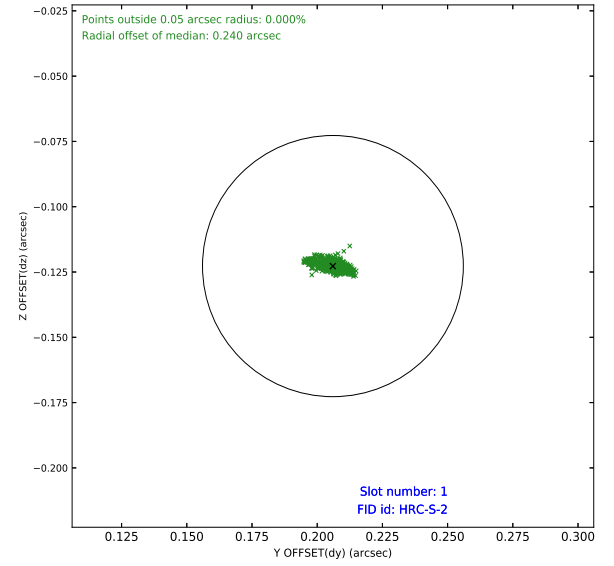
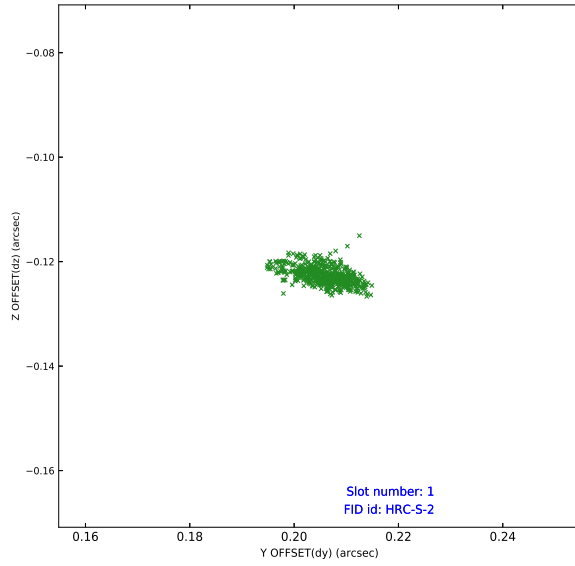


## 2.5 FID Slots

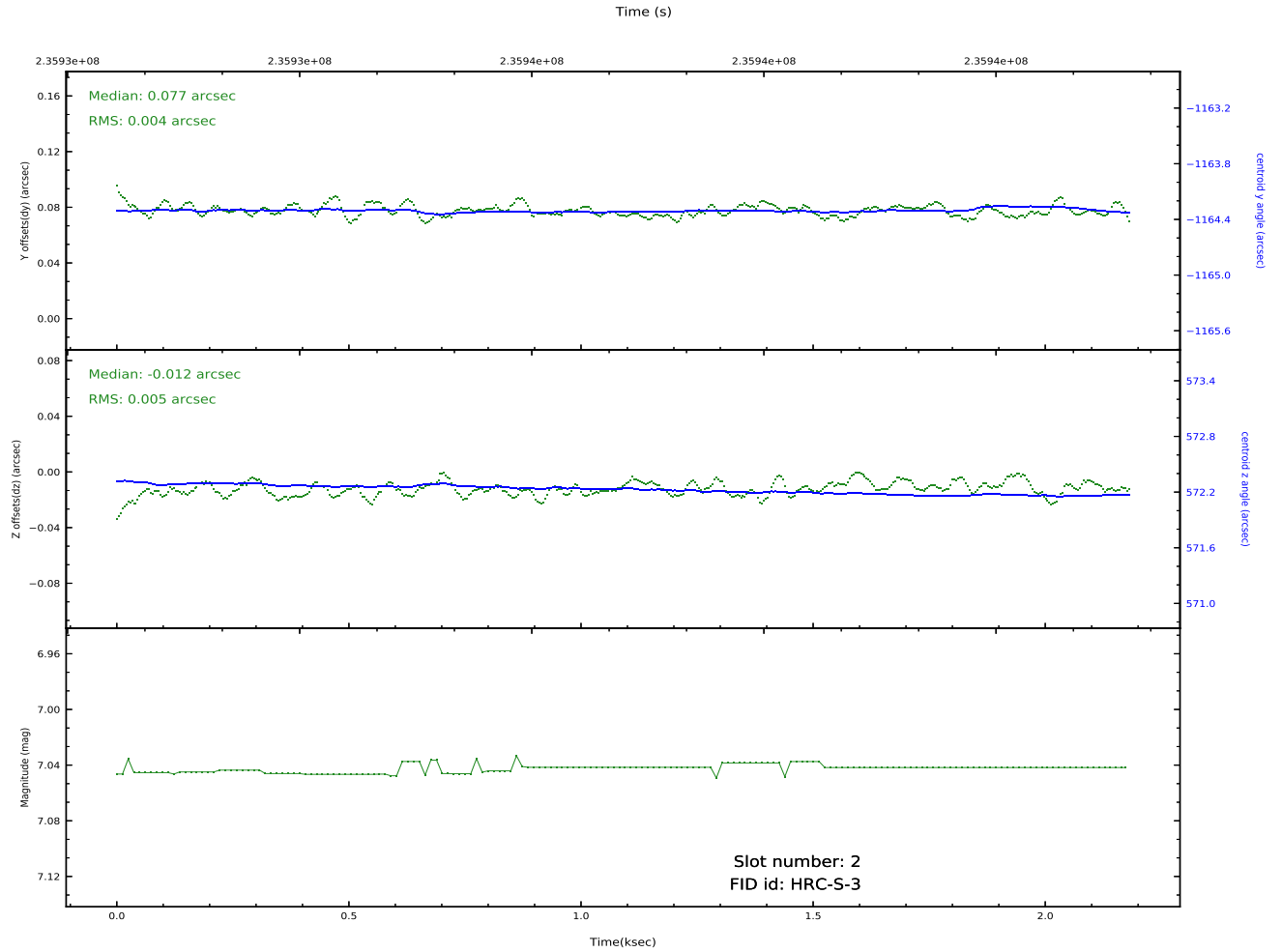
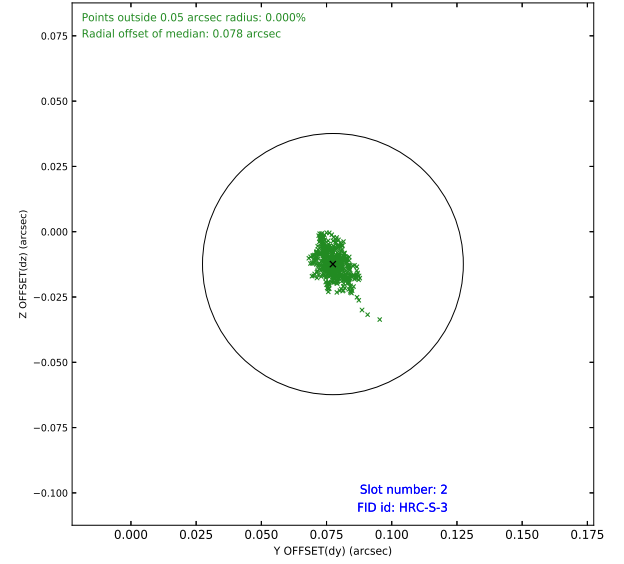
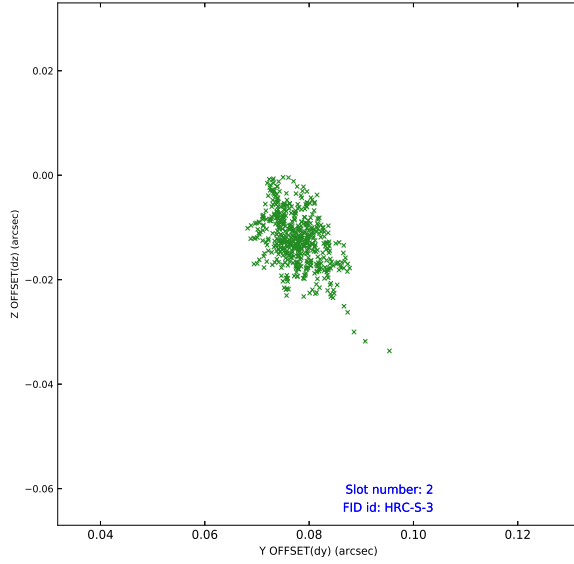
### 2.5.1 Slot 0



## 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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.182481

### A.2 Comments

Window constraint satisfied.