

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5969 - L2 Version 6  
Chandra X-Ray Center

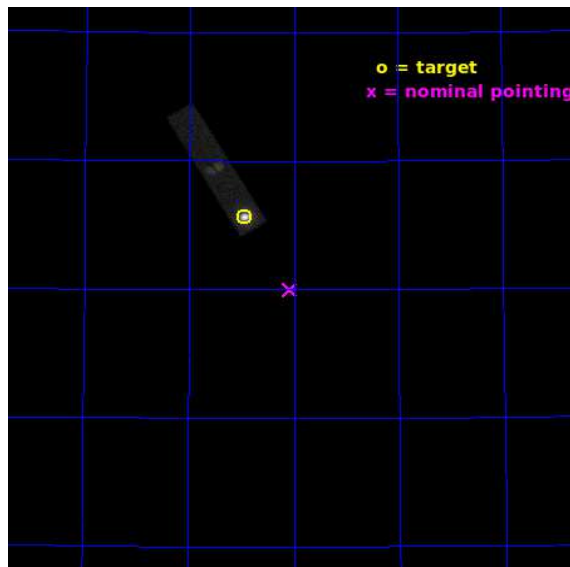
L2 Processing Date : Oct 6 2020

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# 1 Front

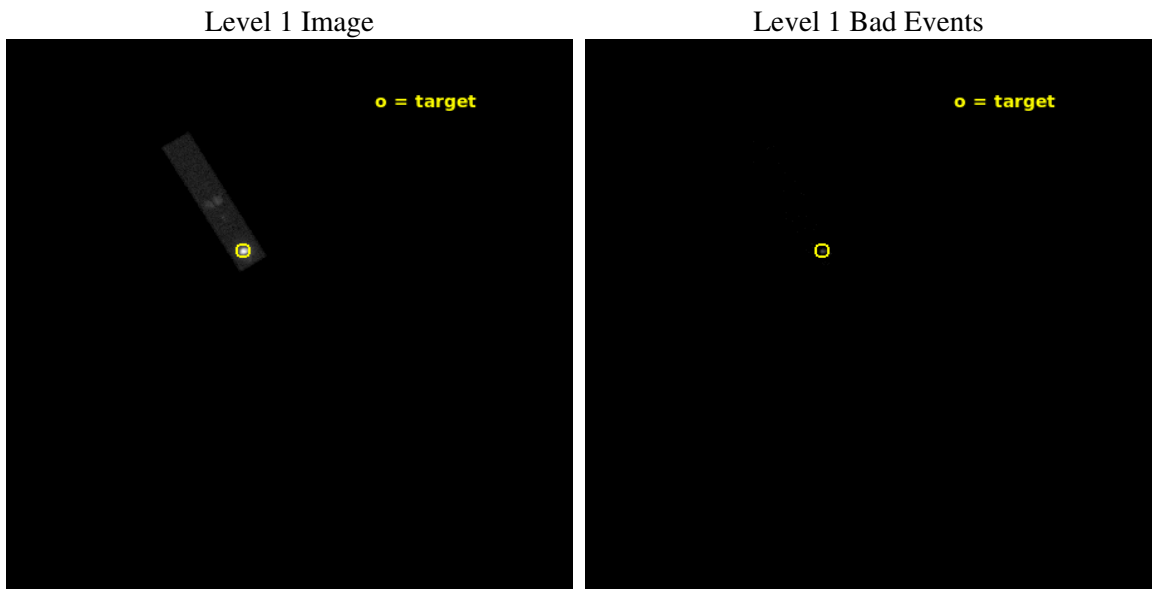
seq_num	290461	Sequence number
obs_id	5969	Observation id
title	AO6 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.01829316305	Nominal RA [deg]
dec_nom	38.49971327789	Nominal Dec [deg]
roll_nom	58.82701097623	Nominal Roll [deg]
revision	6	Processing version of data
ontime	2189.4000990987	[s]
livetime	776.92039894664	Ontime multiplied by DTCOR
l2events	392170	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	2189.4000990987	[s]
caldsver	4.9.2	&#160	l1events	432116	Number of level 1 events
date	2020-10-06T21:51:21	Date and time of file creation			
revision	6	Processing version of data			

### 2.1.3 Events

Level 1 Events

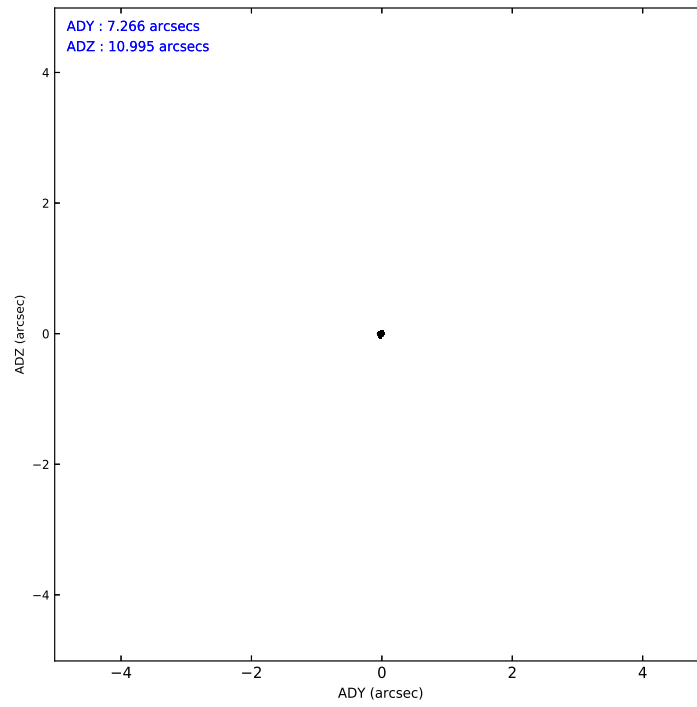
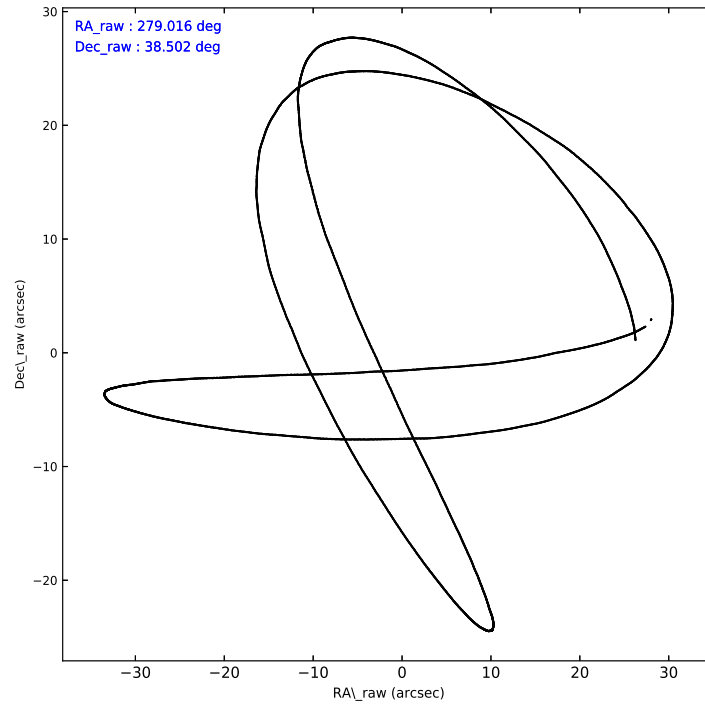
	segment 1	segment 2	segment 3
level 1 events	1	14	432101
rejected events	1	14	28397
rejected %	100%	100%	6%

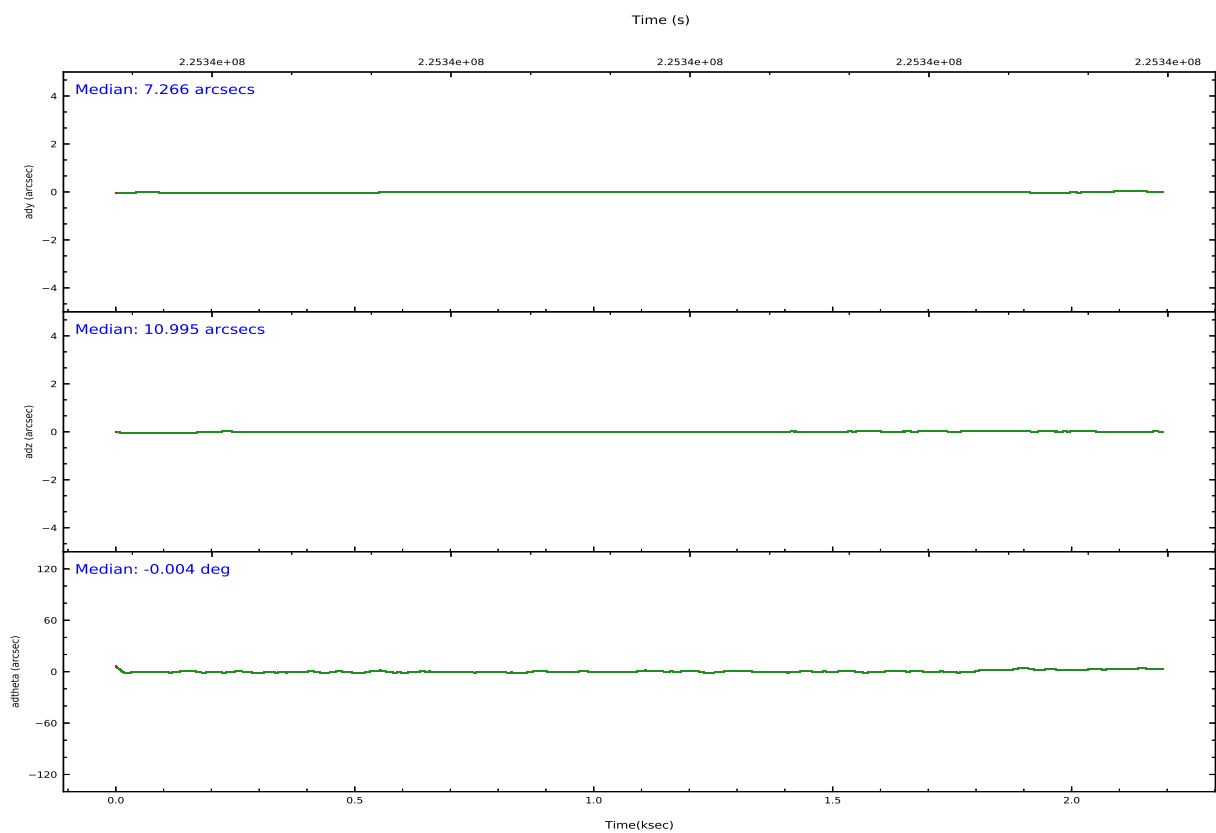
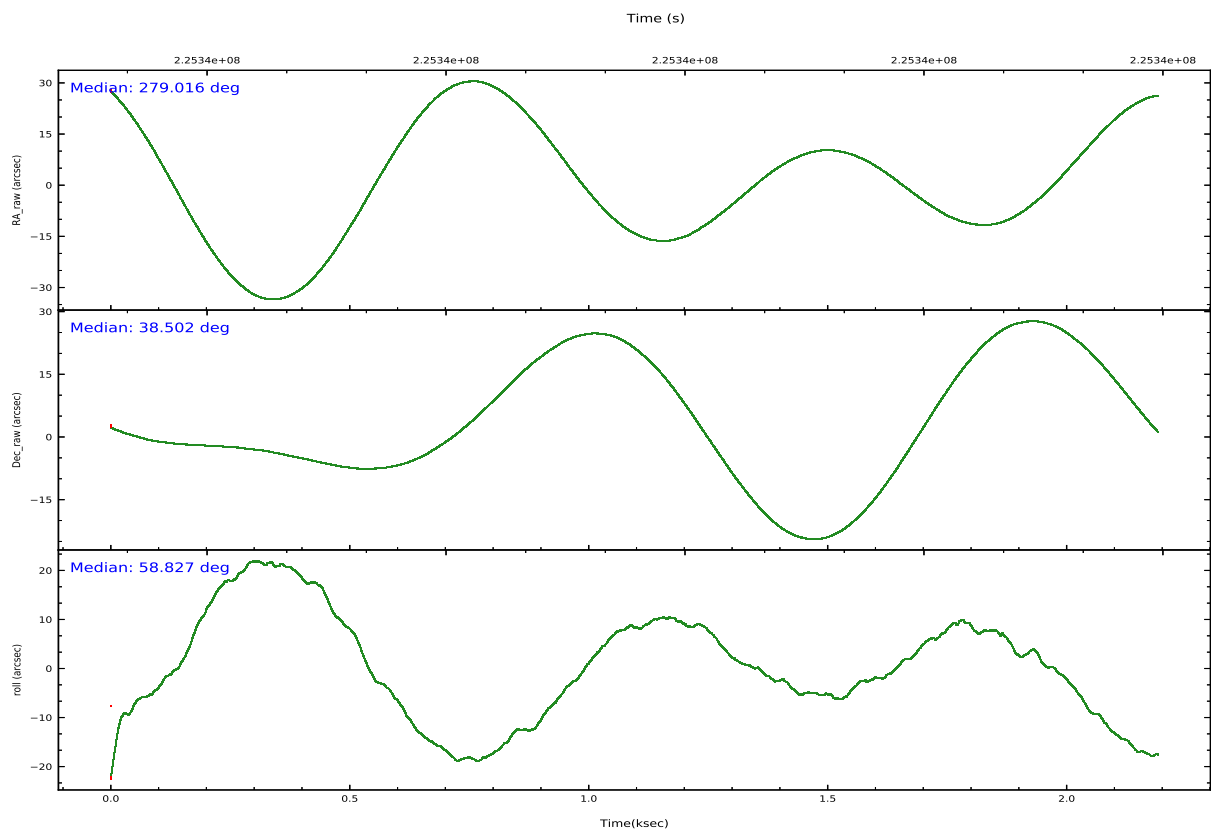
## 2.2 Compared Parameters

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	279.017555	279.01829316305
[deg] Pointing Dec	38.474320	38.49971327789
[deg] Pointing Roll	58.760766	58.82701097623
[s] Window start time (MET)	223603264.184000	223603264.184000
[s] Window stop time (MET)	228614464.184000	228614464.184000
[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)	225339989.184000	225339613.6739
Observation start date	2005-02-21T02:25:25	2005-02-21T02:20:13
[s] Observation end time (MET)	225341989.184000	225342396.03652
Observation end date	2005-02-21T02:58:45	2005-02-21T03:06:36

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

## 2.3 Aspect





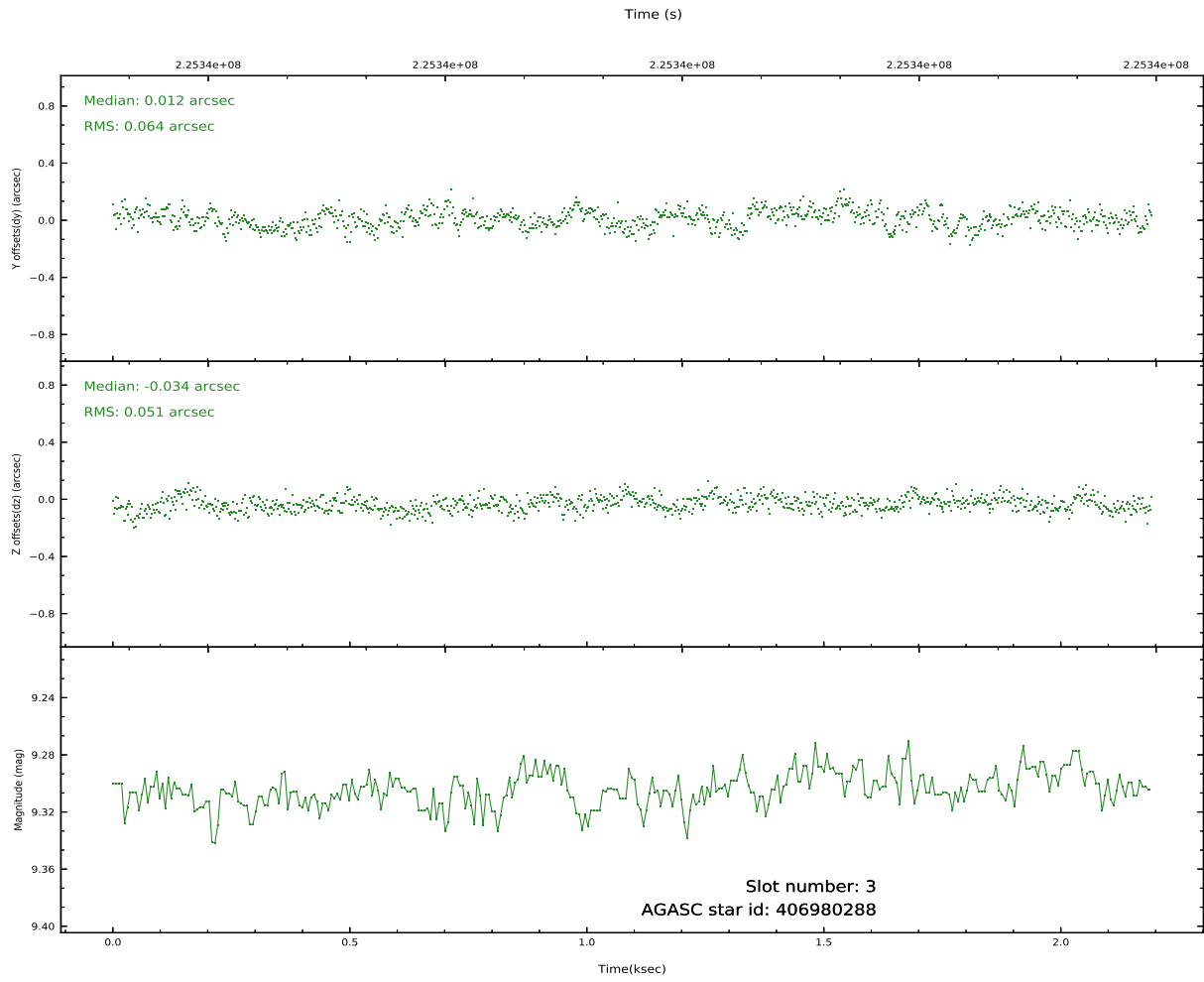
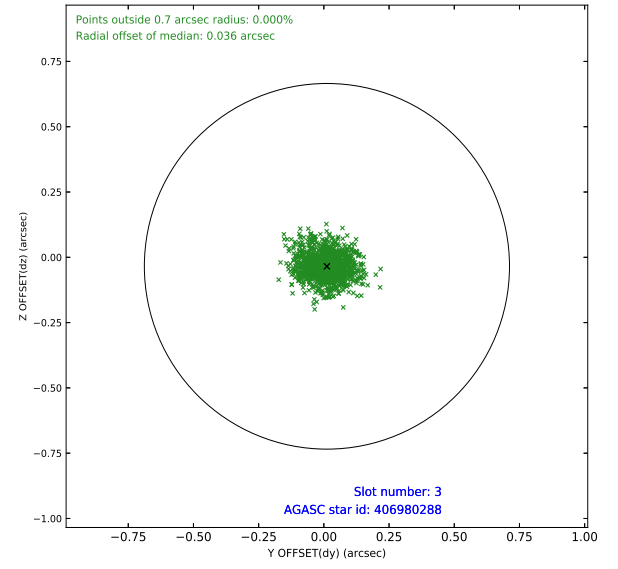
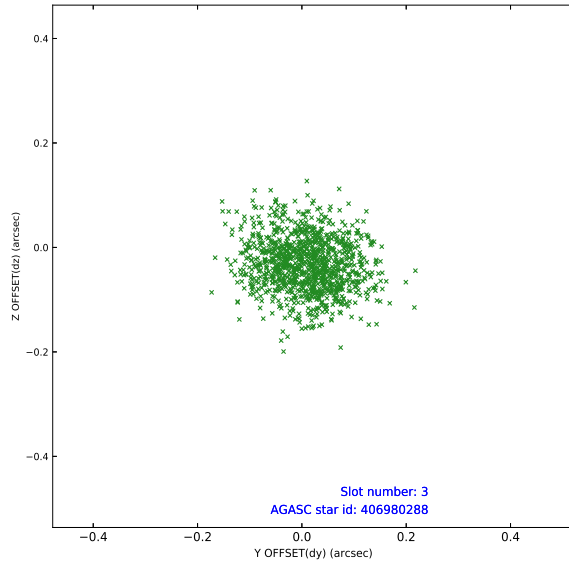
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-2	7.01	535	1.000	0.155	-0.196	0.013	0.040	0.000000	0.000000	1238.30	-452
1	FID		HRC-S-3	7.02	535	1.000	0.040	-0.090	0.006	0.012	0.000000	0.000000	-1161.91	569
2	FID		HRC-S-4	6.98	535	1.000	0.209	-0.009	0.014	0.043	0.000000	0.000000	1234.75	573
3	GUIDE	used	406980288	9.30	1069	1.000	0.012	-0.034	0.088	0.138	278.903147	39.061646	1643.56	1369
4	GUIDE	used	406985120	7.42	1070	1.000	-0.041	-0.041	0.069	0.109	278.839732	38.894839	1037.79	1211
5	GUIDE	used	406987272	6.93	1070	1.000	-0.033	-0.033	0.043	0.072	278.536588	38.437504	-812.66	1093
6	GUIDE	used	406989616	8.23	1070	1.000	0.054	0.066	0.063	0.100	279.202881	38.520843	413.69	-358
7	GUIDE	used	406993992	7.62	1069	1.000	0.004	0.041	0.061	0.094	279.053714	38.034587	-1299.78	-910

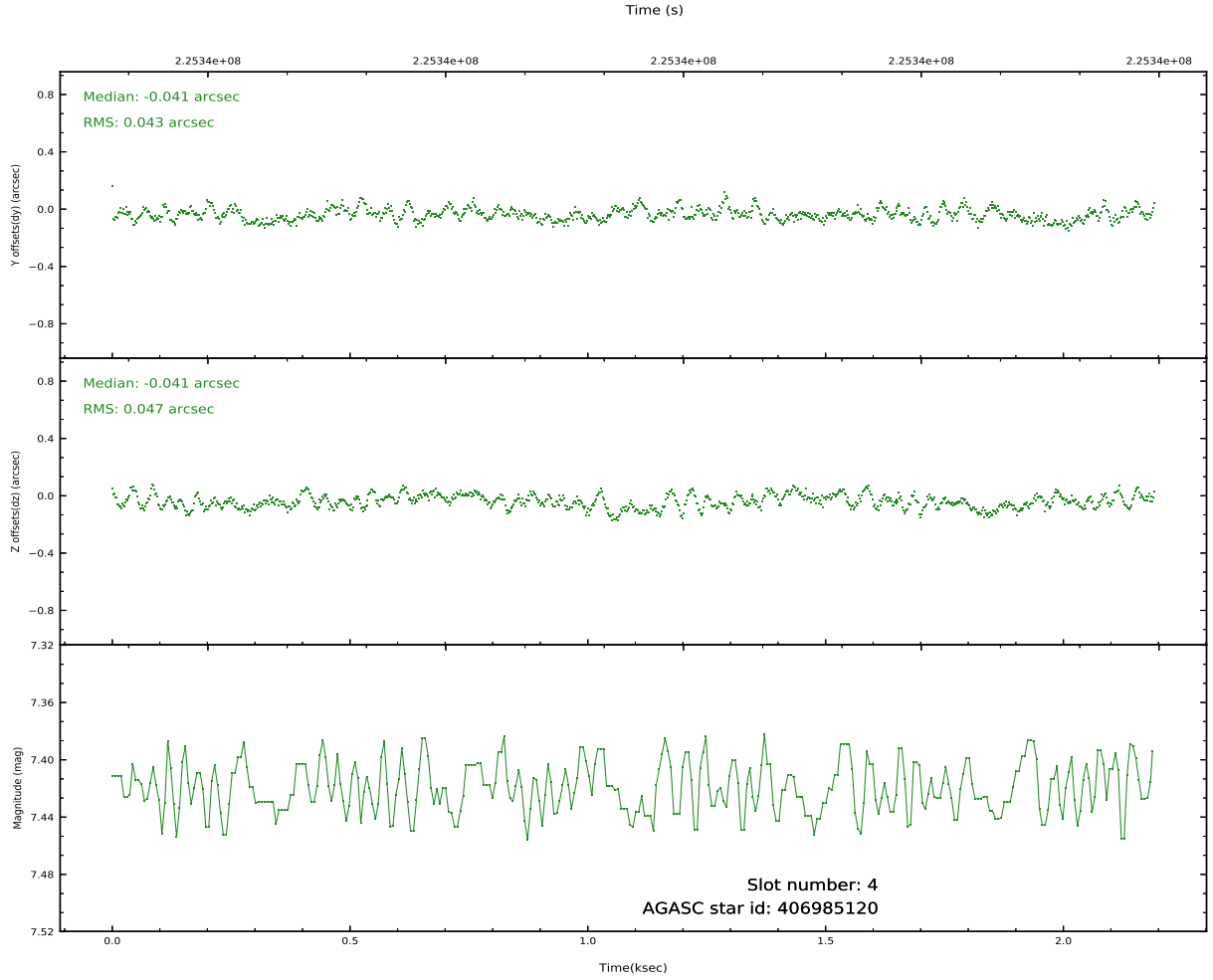
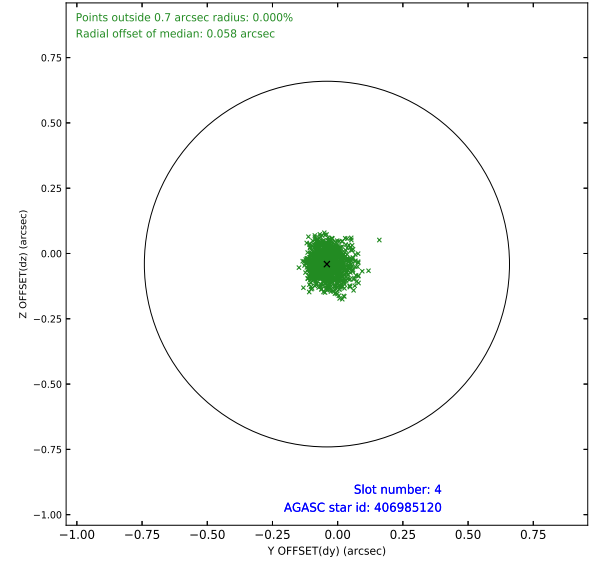
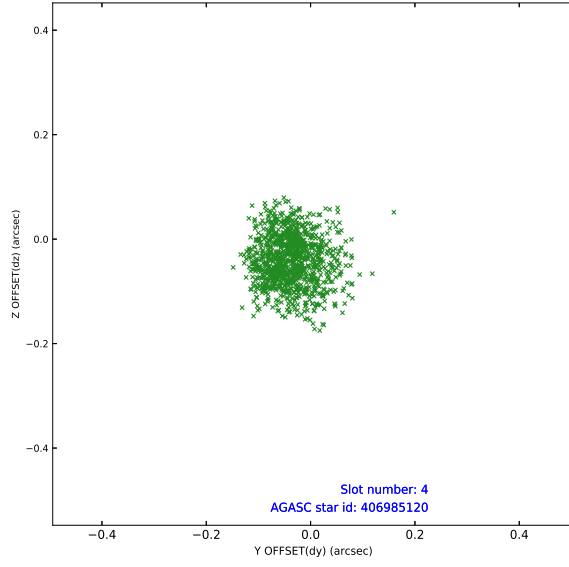


## 2.4 Star Slots

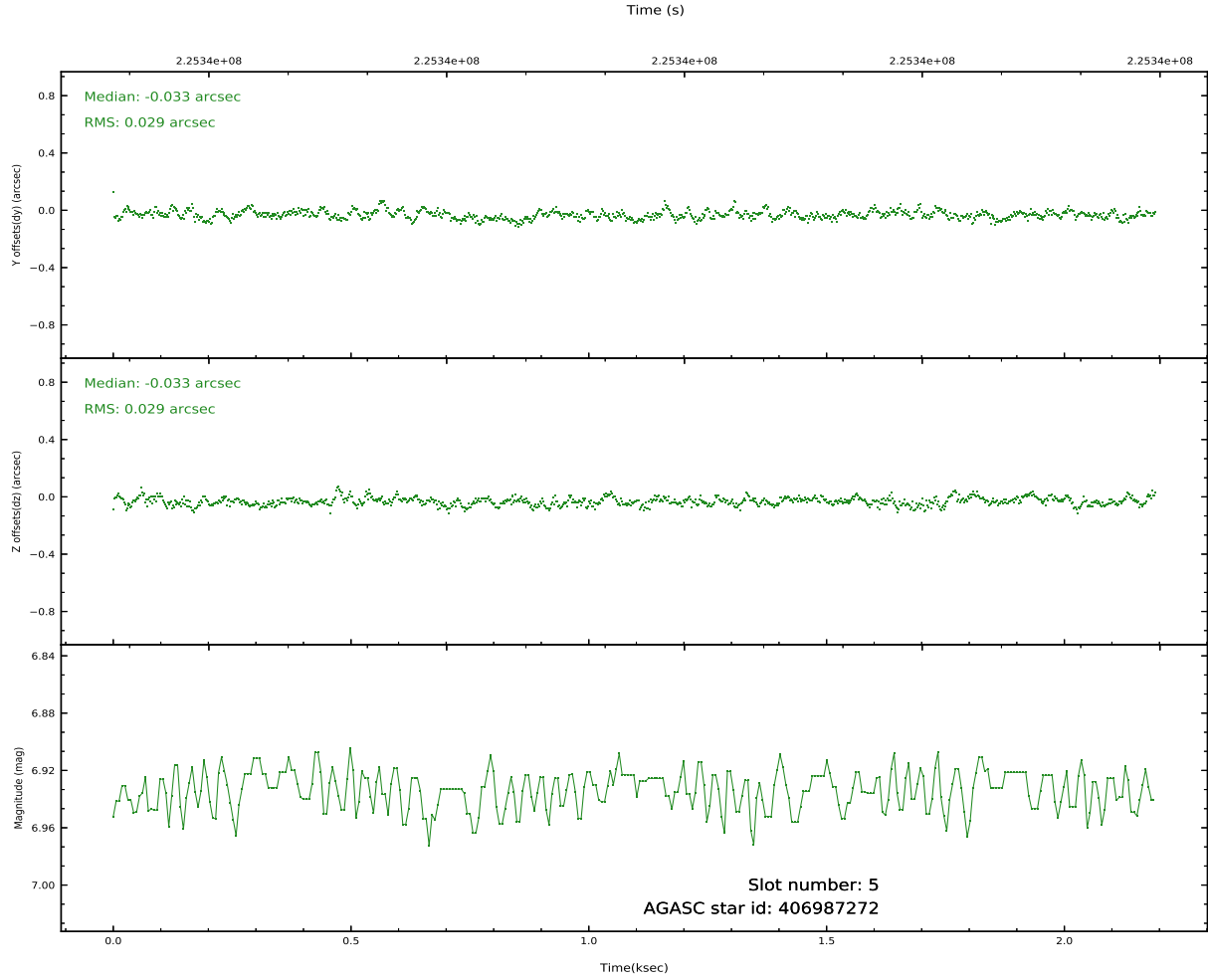
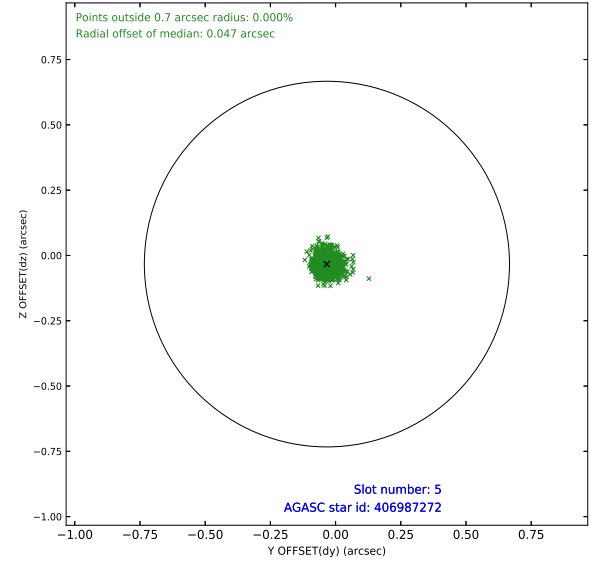
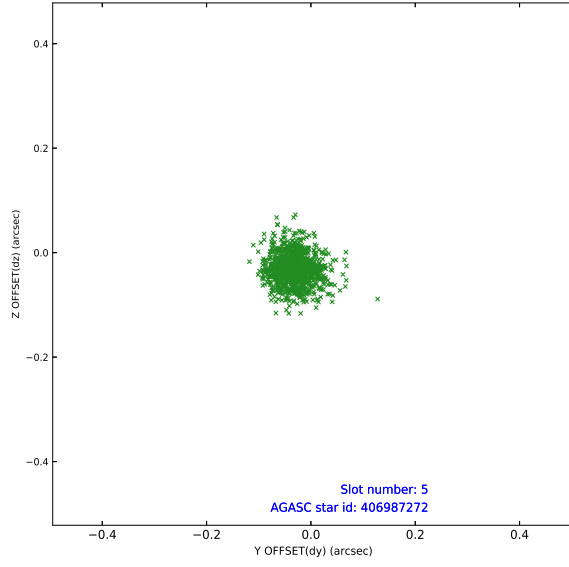
### 2.4.1 Slot 3



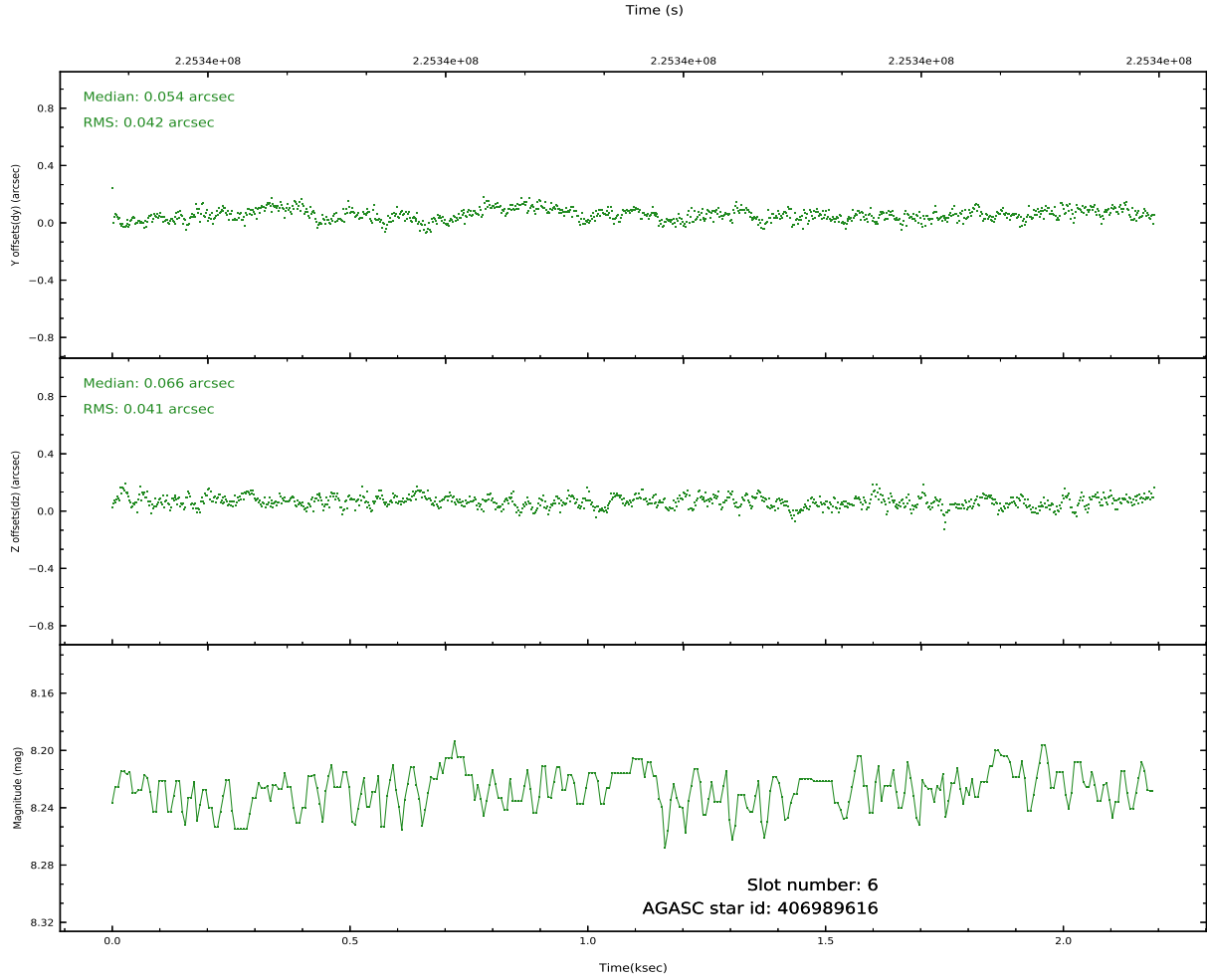
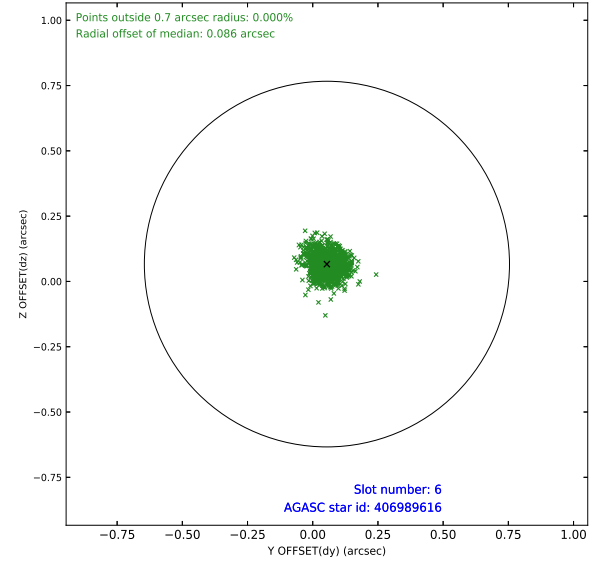
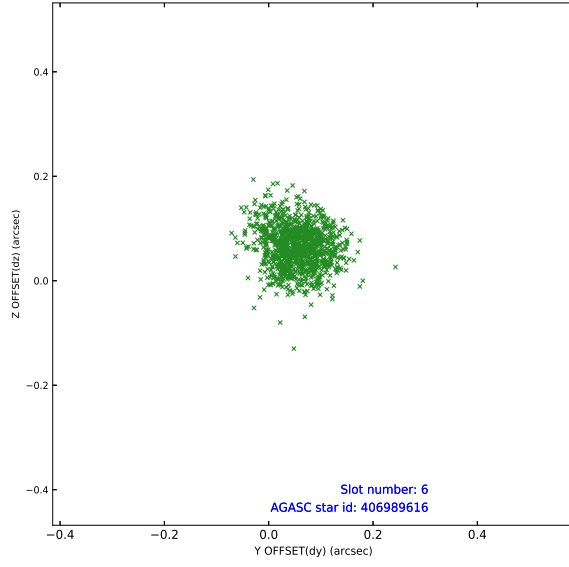
## 2.4.2 Slot 4



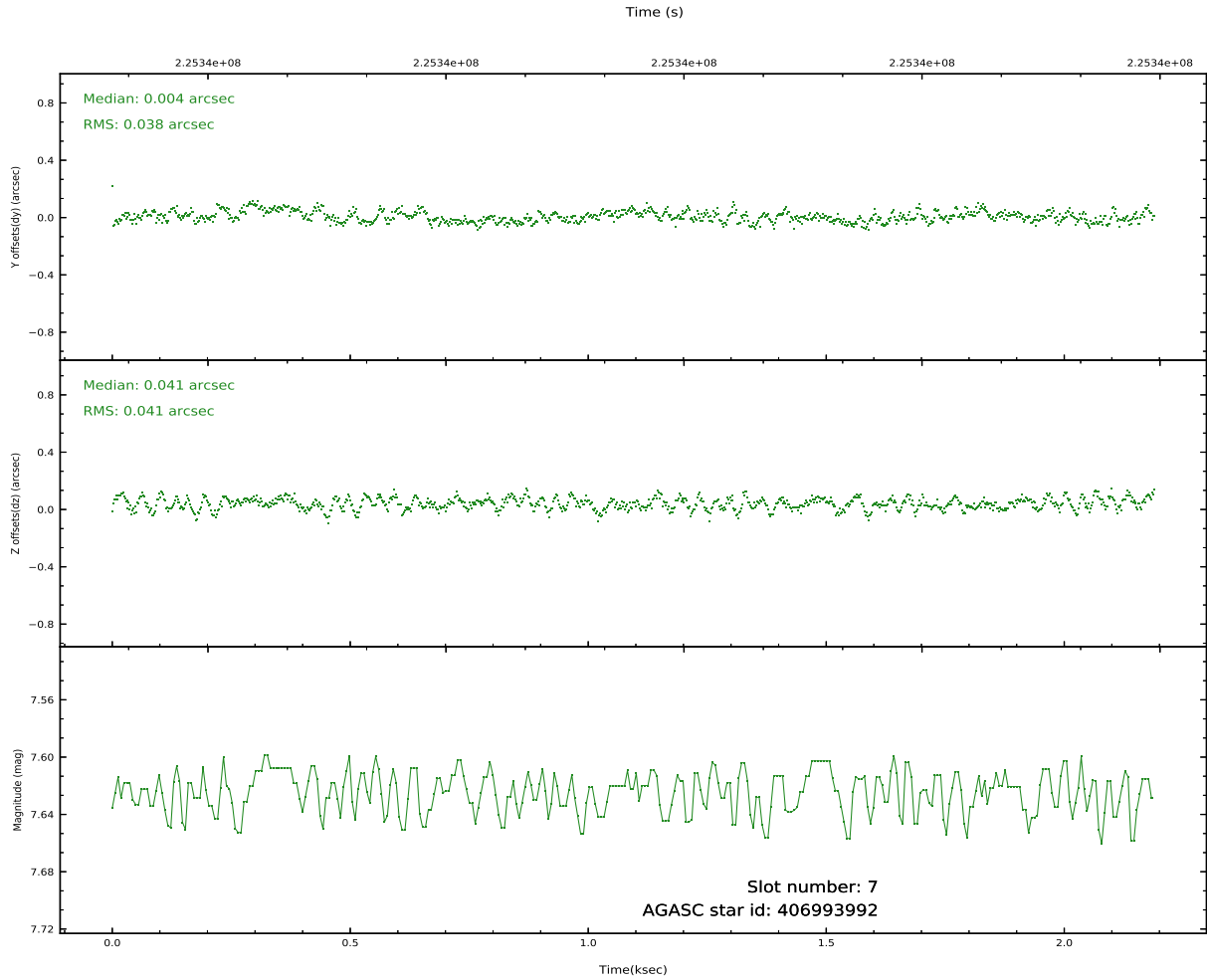
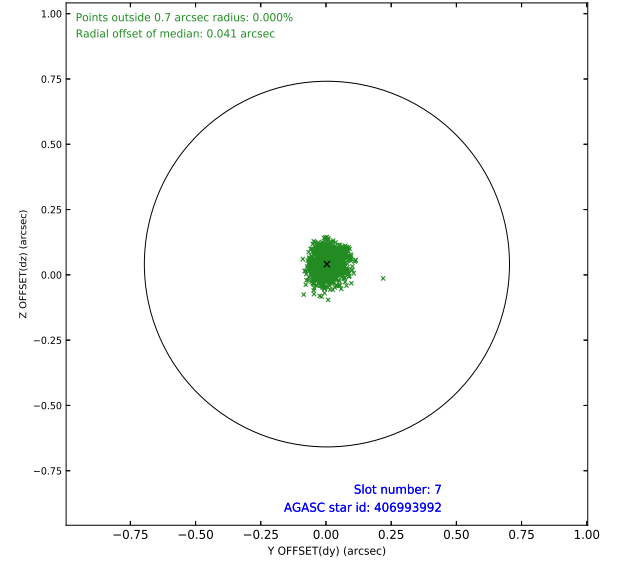
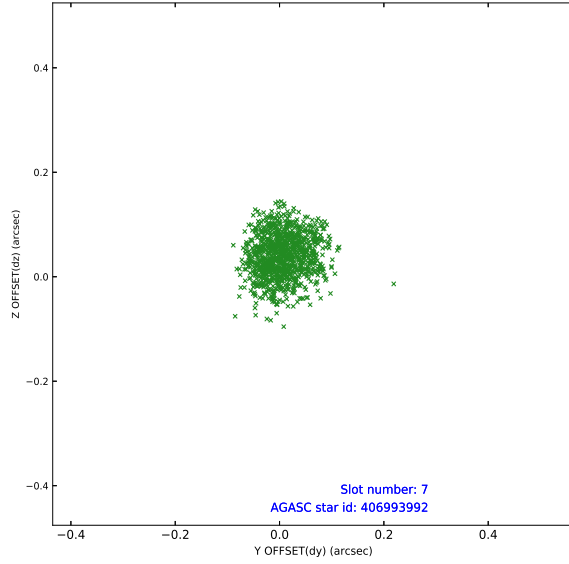
### 2.4.3 Slot 5



## 2.4.4 Slot 6

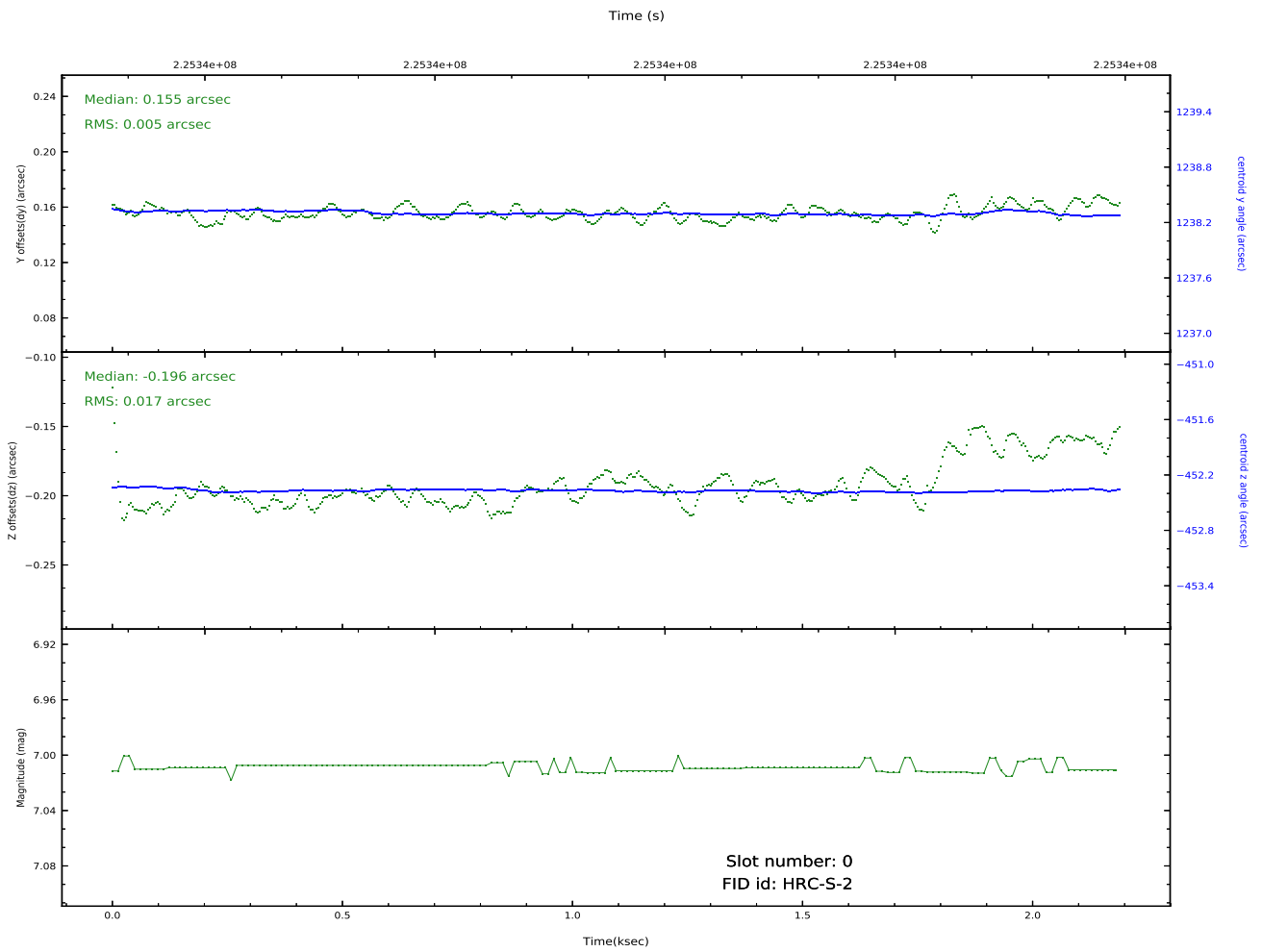
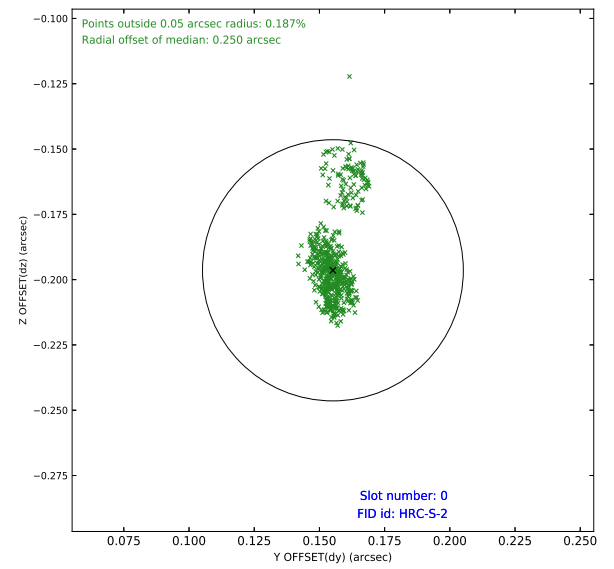
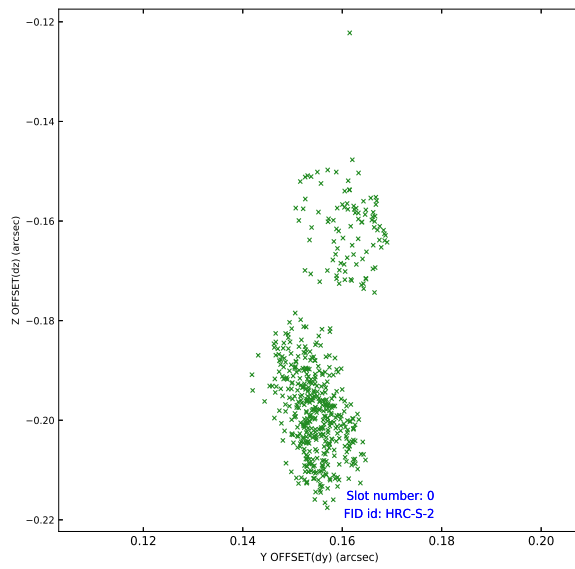


## 2.4.5 Slot 7

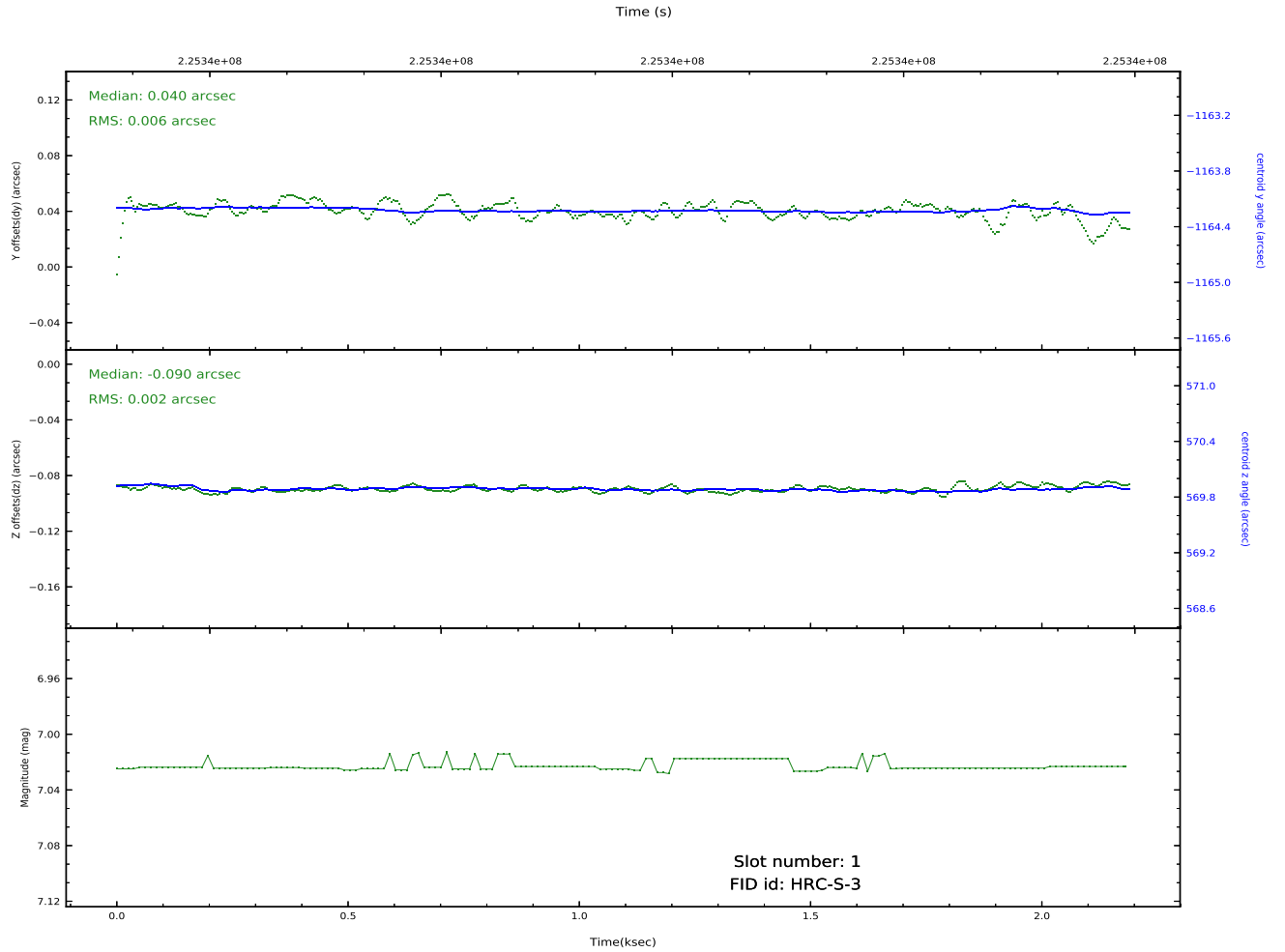
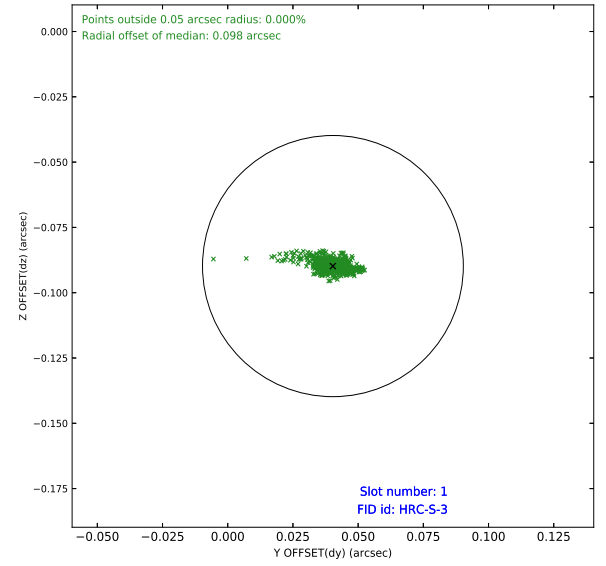
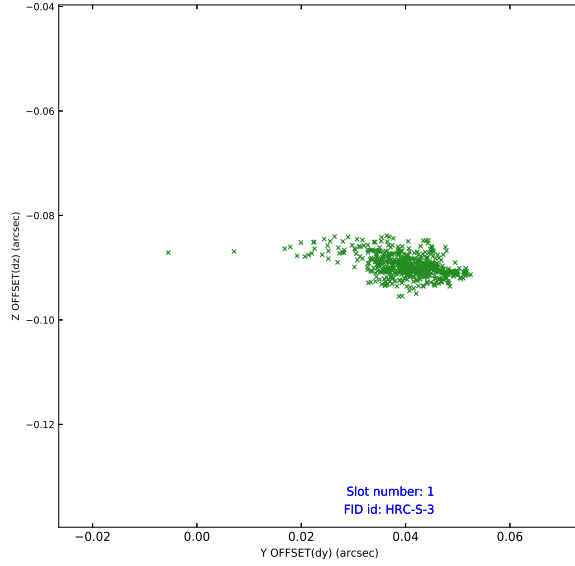


## 2.5 FID Slots

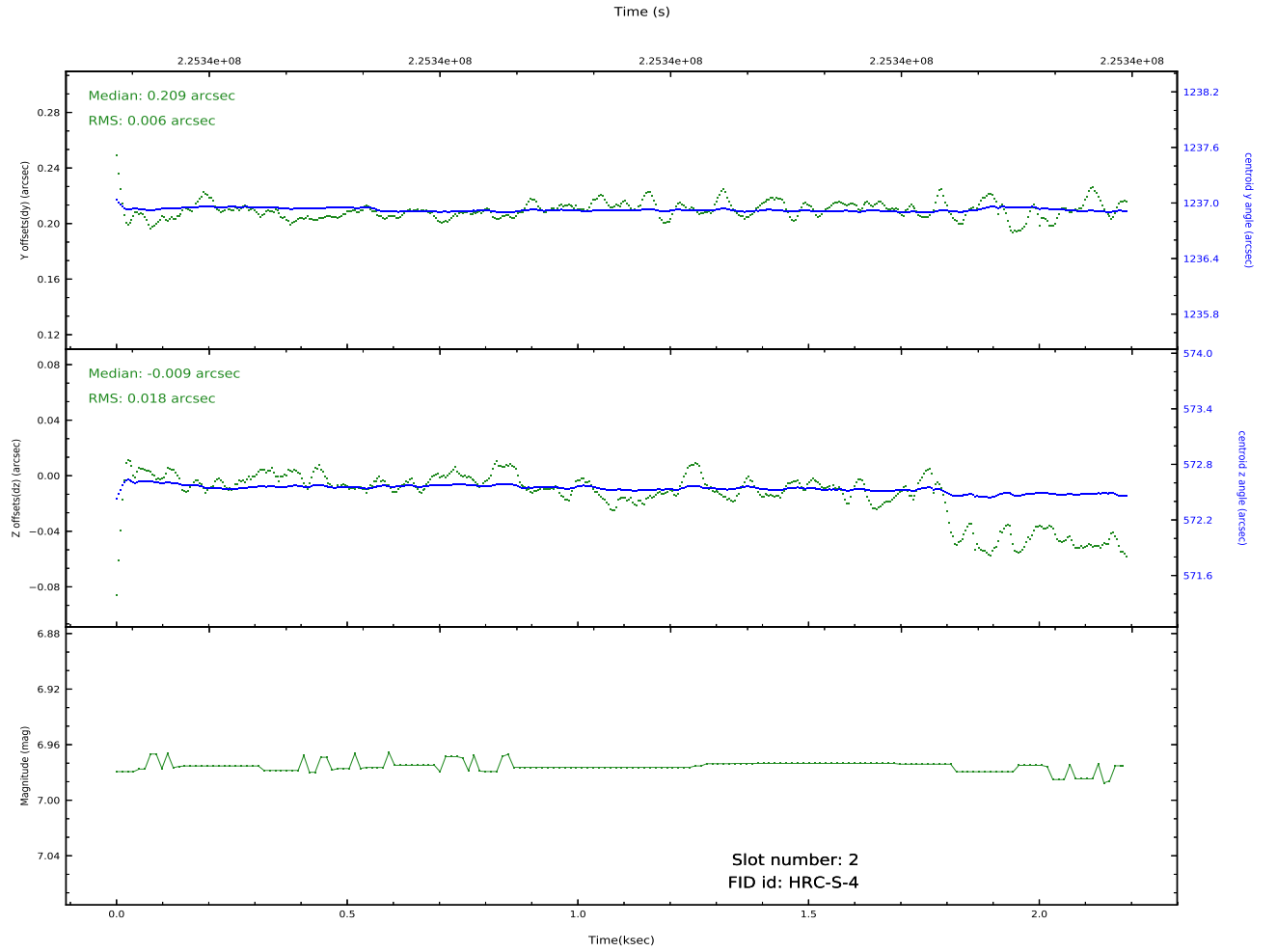
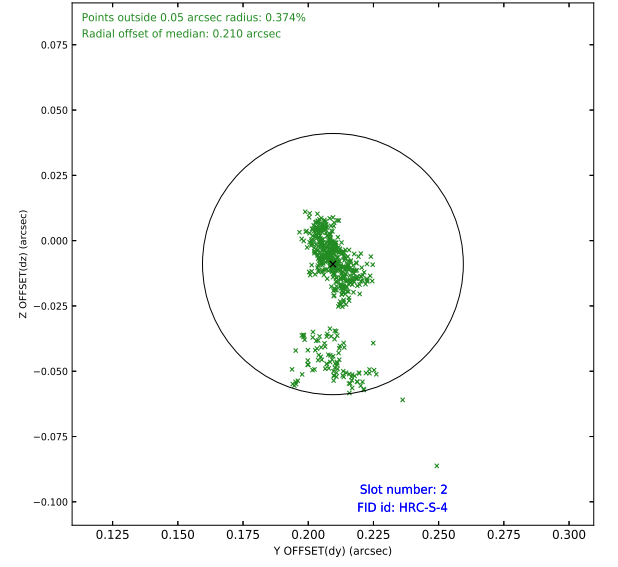
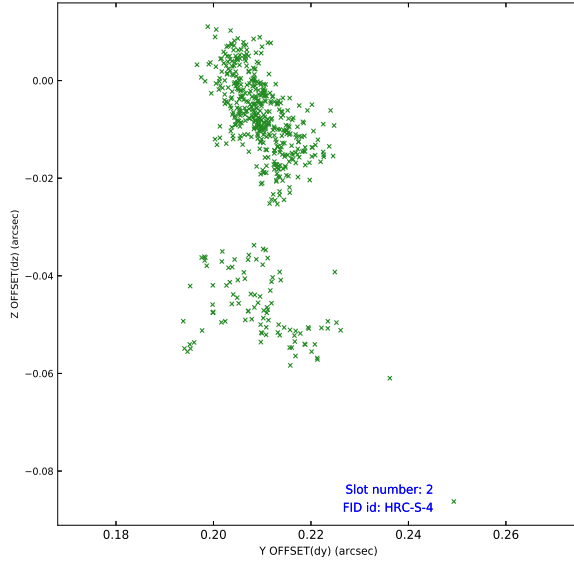
### 2.5.1 Slot 0



## 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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1894

### A.2 Comments

Window constraint was met.