

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5062 - L2 Version 5  
Chandra X-Ray Center

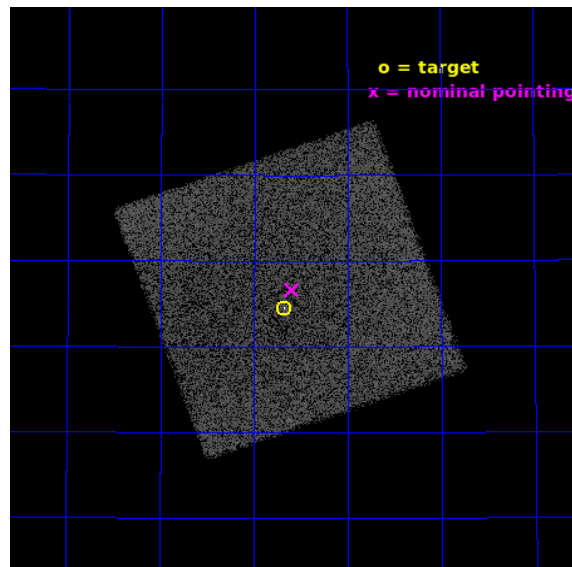
L2 Processing Date : Oct 5 2020

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# 1 Front

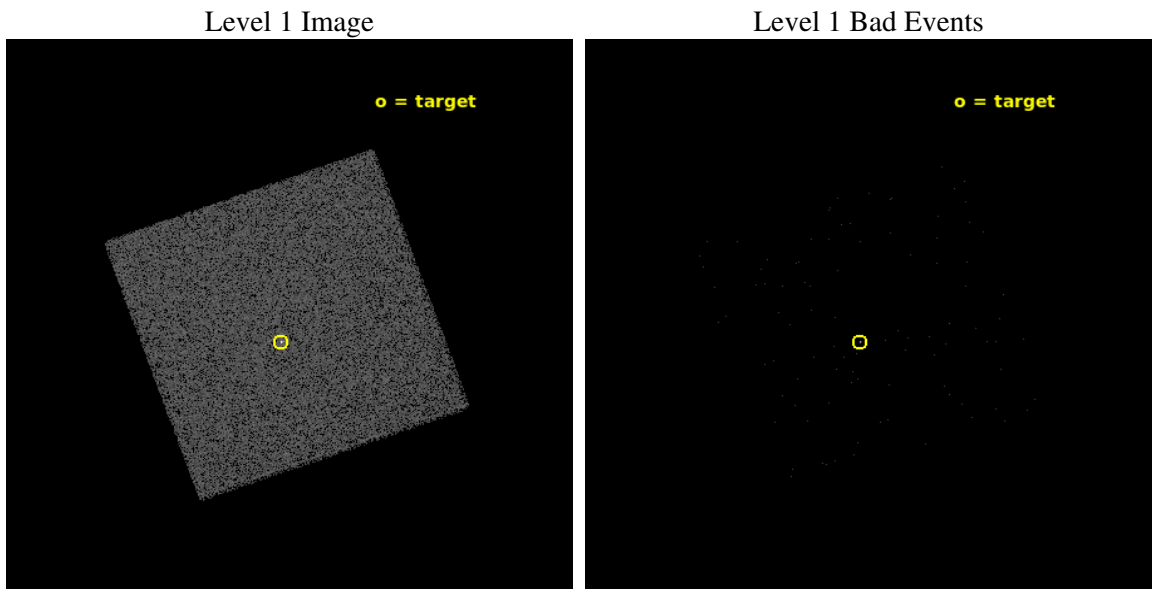
seq_num	290335	Sequence number
obs_id	5062	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14910648312	Nominal RA [deg]
dec_nom	45.777483185488	Nominal Dec [deg]
roll_nom	205.28649757466	Nominal Roll [deg]
revision	5	Processing version of data
ontime	551.4500246346	[s]
livetime	384.8059753653	Ontime multiplied by DTCOR
l2events	66433	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	551.4500246346	[s]
caldbver	4.9.2	&#160	l1events	143642	Number of level 1 events
date	2020-10-05T23:59:39	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

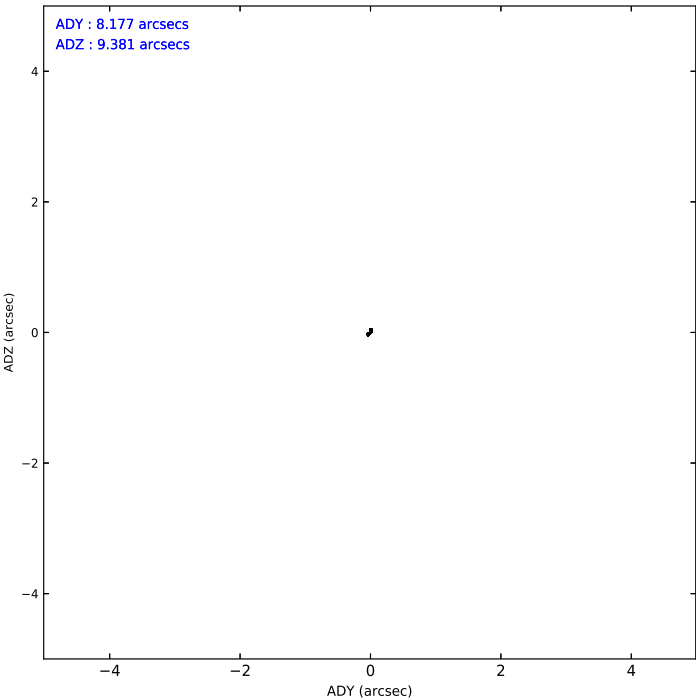
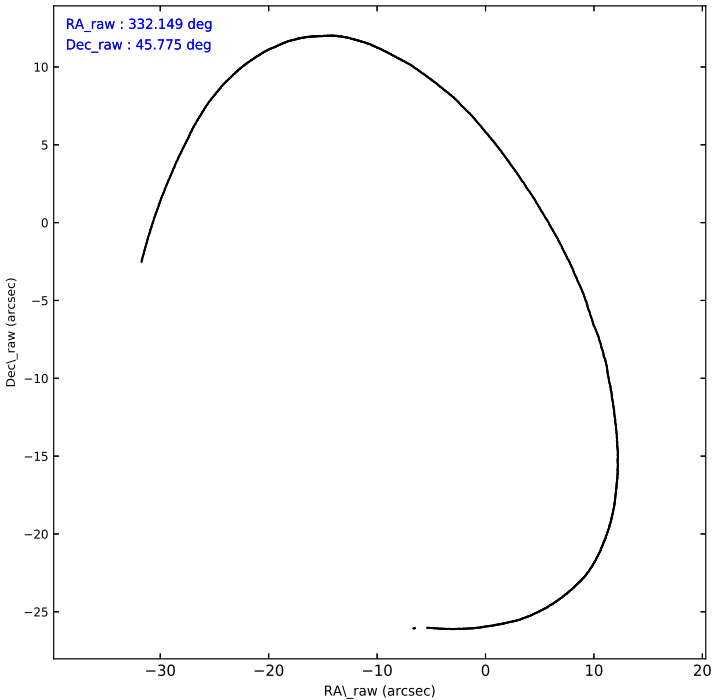
	<b>segment 0</b>
level 1 events	143642
rejected events	41768
rejected %	29%

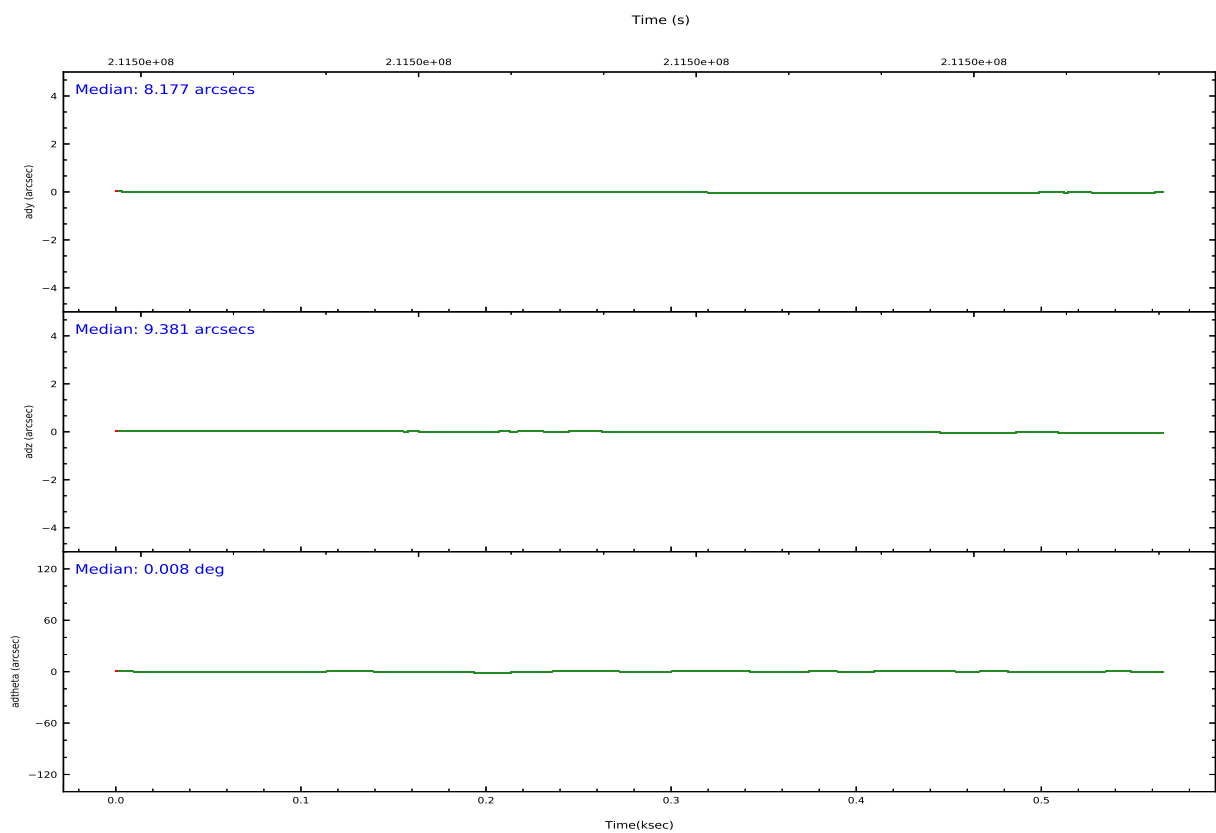
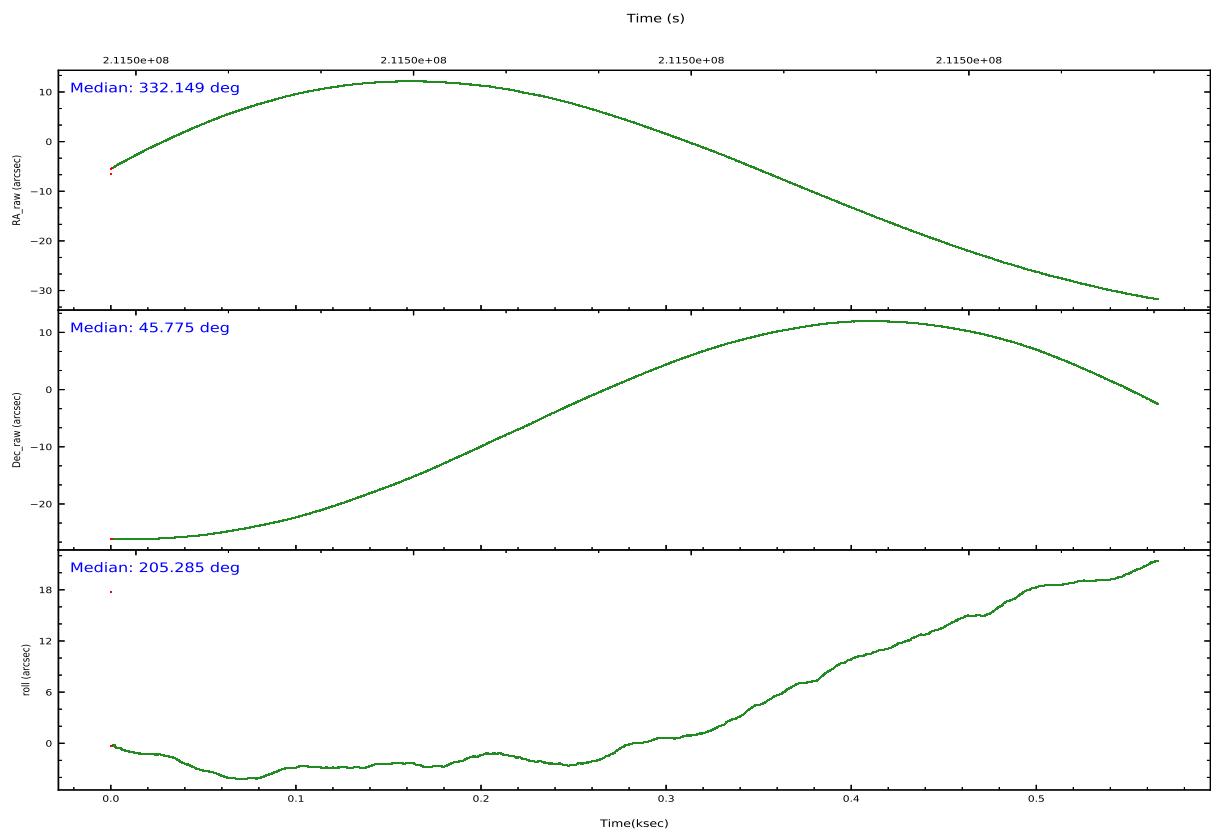
## 2.2 Compared Parameters

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	332.164930	332.14910648312
[deg] Pointing Dec	45.794854	45.777483185488
[deg] Pointing Roll	205.381583	205.28649757466
[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)	211498321.184000	211497925.92673
Observation start date	2004-09-13T21:30:57	2004-09-13T21:25:25
[s] Observation end time (MET)	211499321.184000	211498704.41427
Observation end date	2004-09-13T21:47:37	2004-09-13T21:38:24

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

### 2.3 Aspect



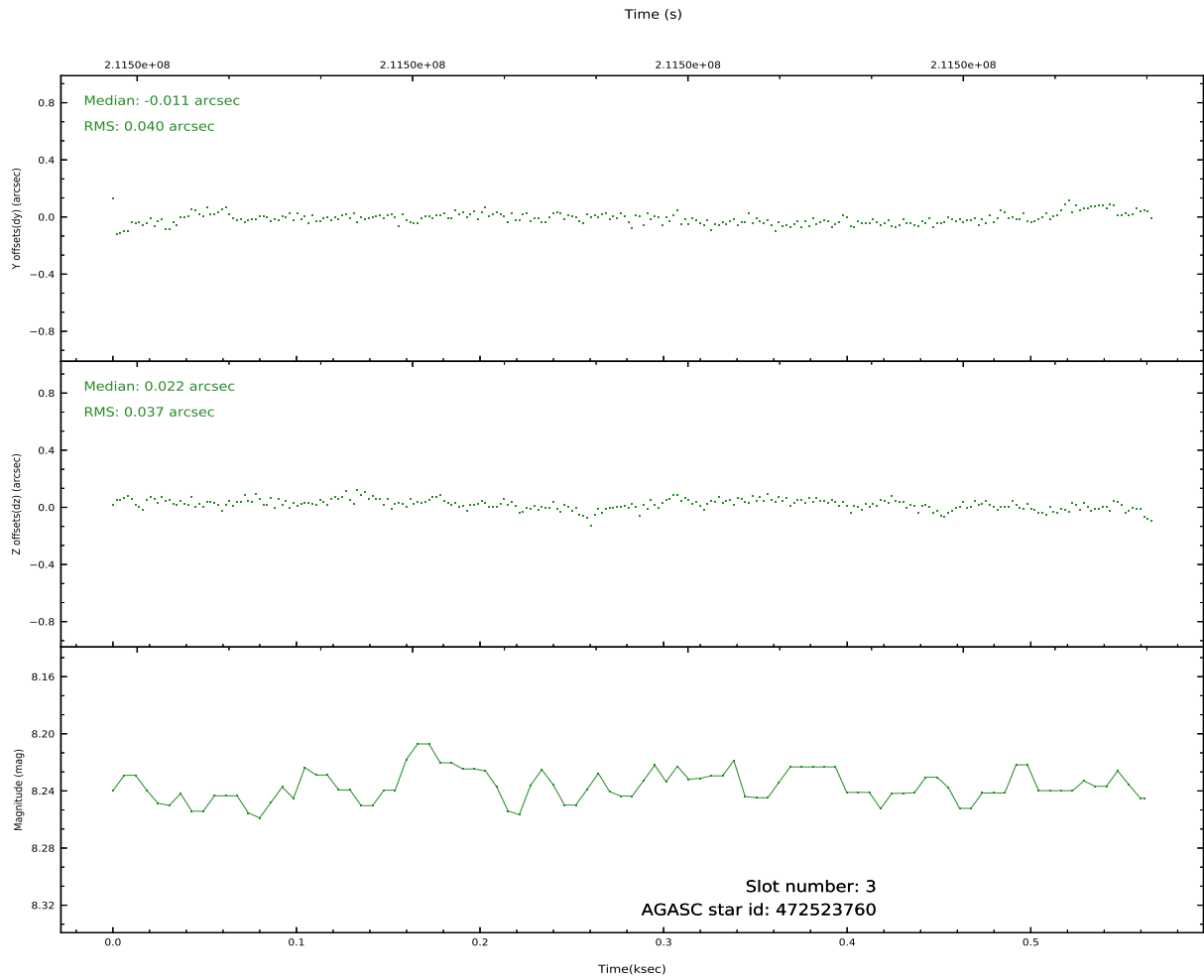
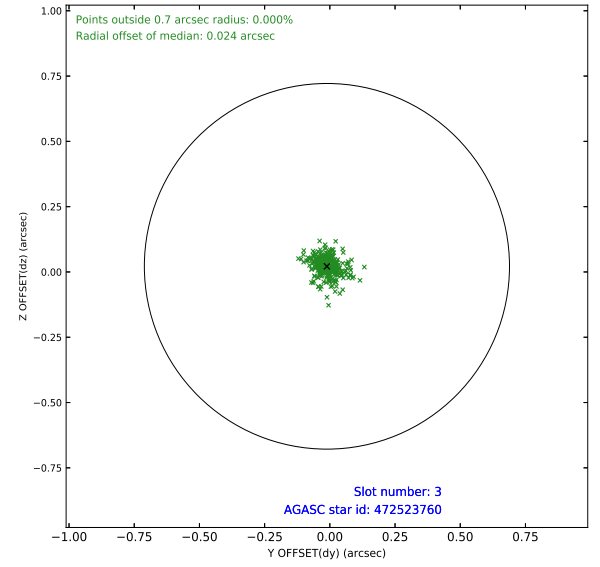
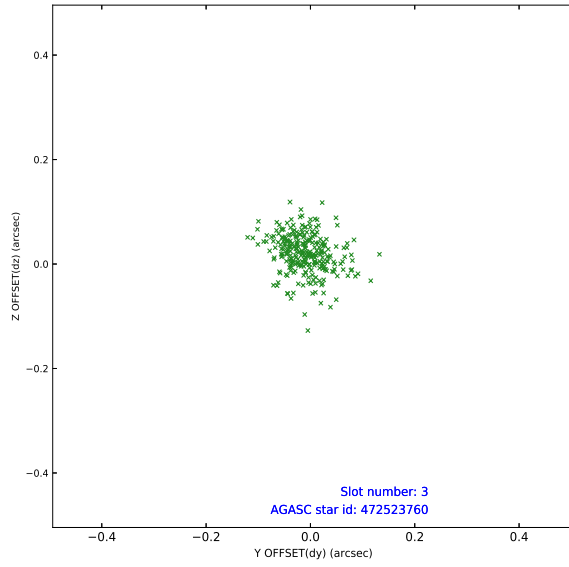


Slot Statistics

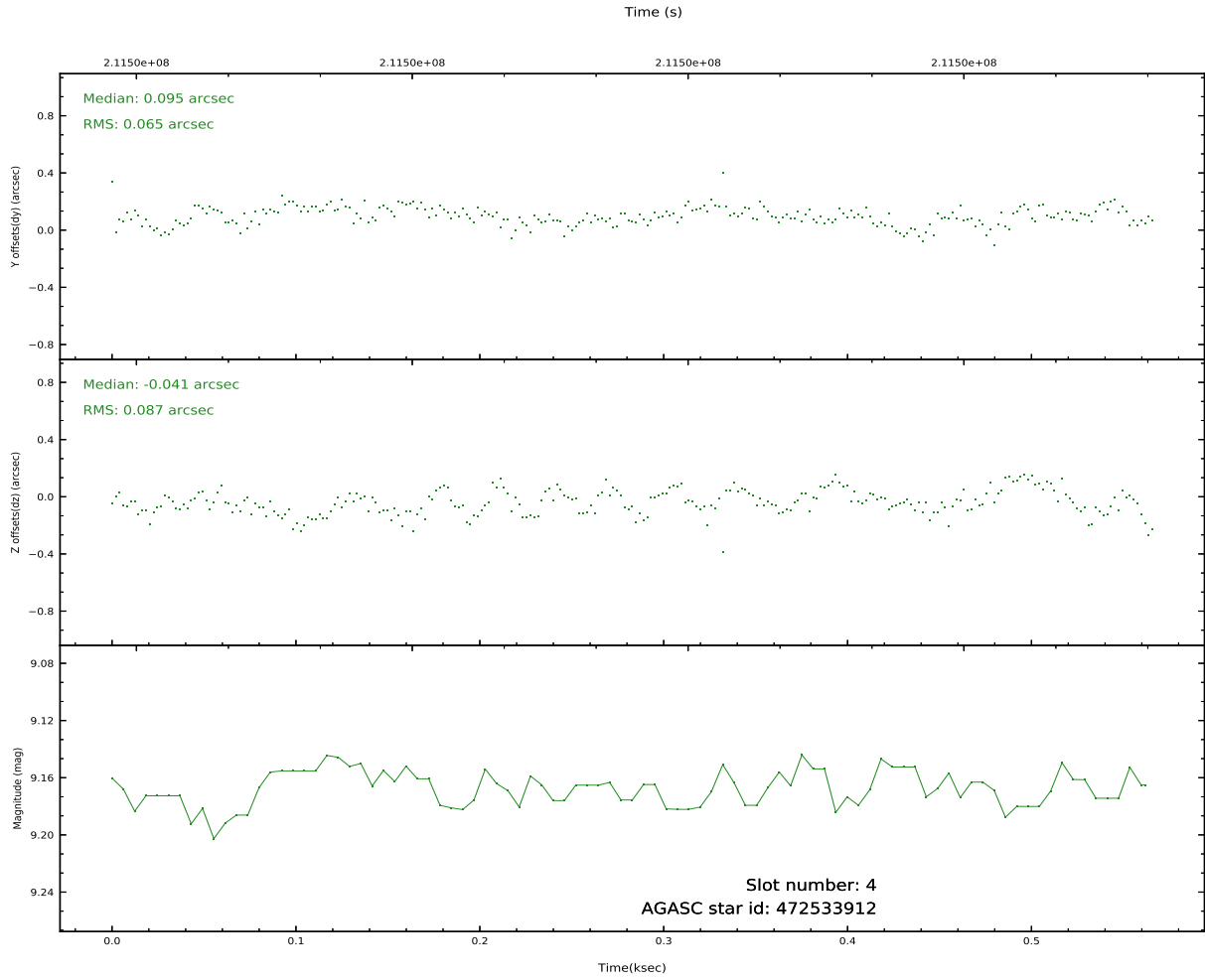
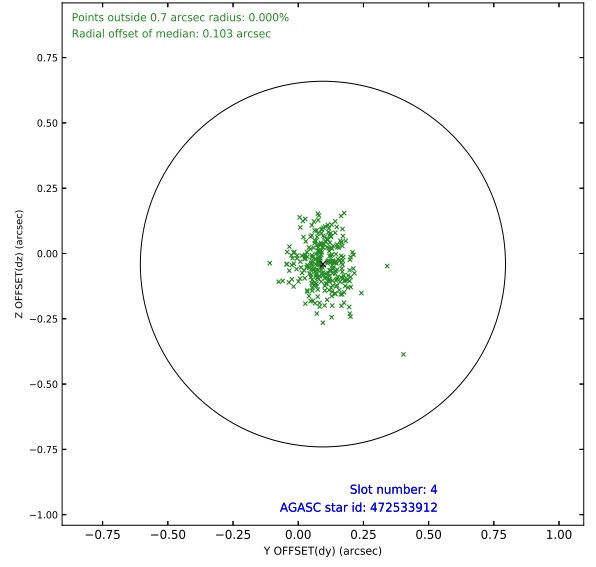
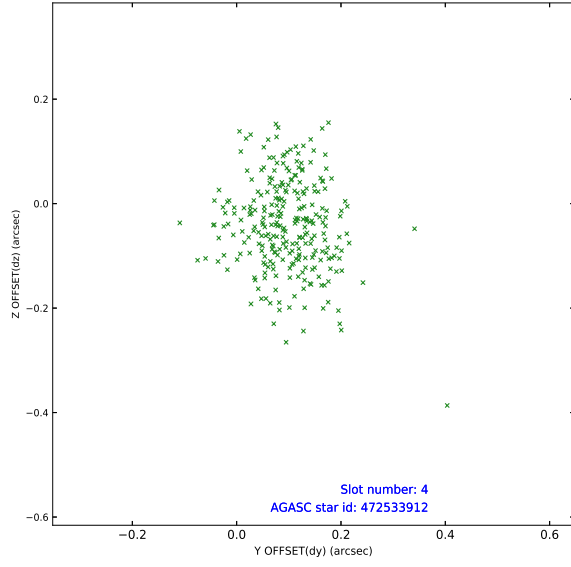
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.04	139	1.000	-0.046	0.026	0.009	0.035	0.000000	0.000000	-763.82	-1297
1	FID		HRC-I-2	7.08	139	1.000	0.182	-0.106	0.006	0.015	0.000000	0.000000	843.54	-1308
2	FID		HRC-I-3	7.13	138	1.000	-0.016	-0.011	0.006	0.022	0.000000	0.000000	-1186.17	997
3	GUIDE	used	472523760	8.24	277	1.000	-0.011	0.022	0.055	0.101	331.645363	45.403260	1801.32	708
4	GUIDE	used	472533912	9.17	277	1.000	0.095	-0.041	0.115	0.187	331.791136	46.368695	-28.42	-2262
5	GUIDE	used	472655152	9.43	277	1.000	0.073	-0.239	0.149	0.236	332.504239	45.862991	-862.12	134
6	GUIDE	used	472659832	9.47	277	1.000	0.010	0.111	0.106	0.181	332.780399	46.098139	-1849.40	-331
7	GUIDE	used	472535576	7.87	276	1.000	-0.165	0.147	0.053	0.106	331.438373	46.291802	868.24	-2398

## 2.4 Star Slots

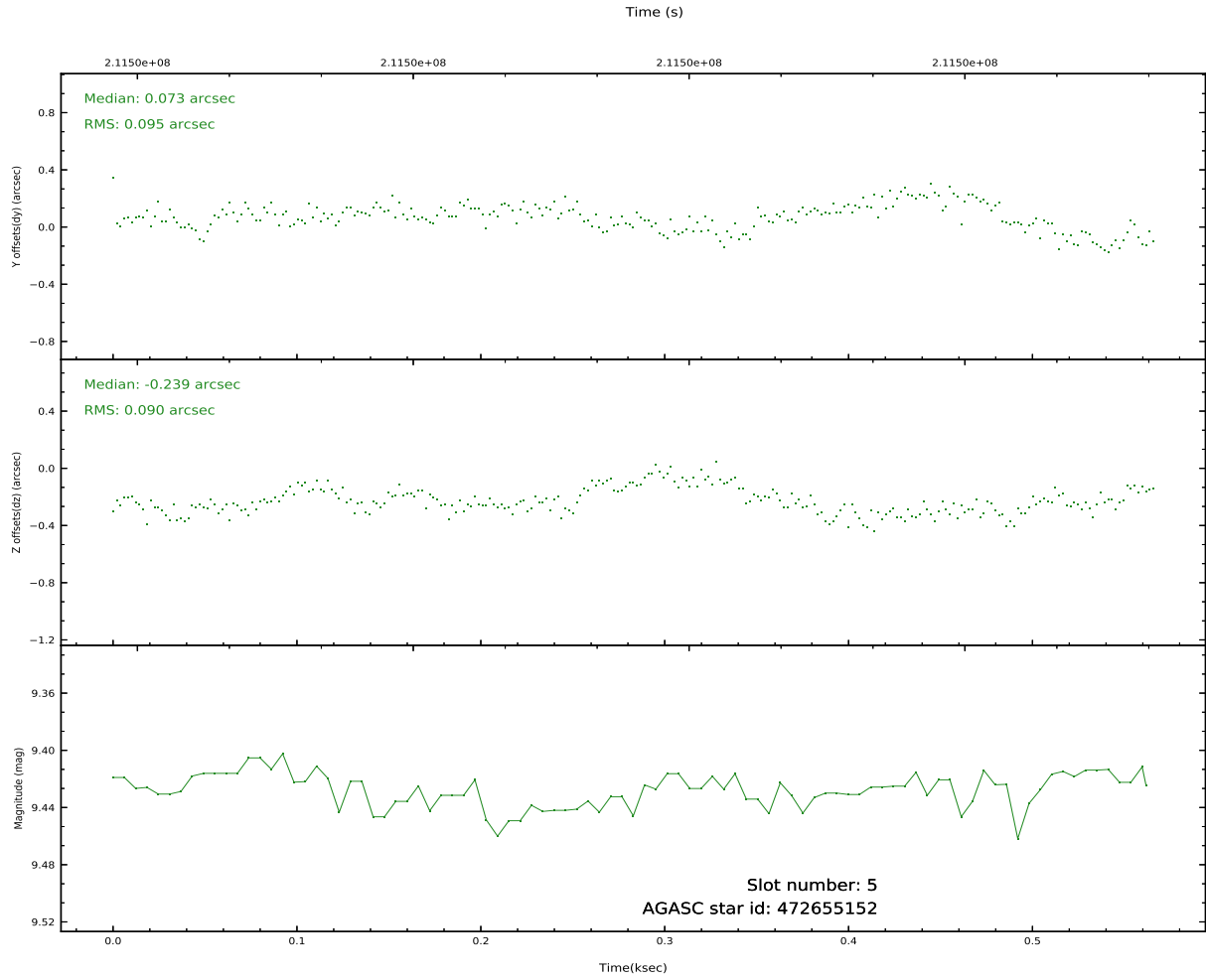
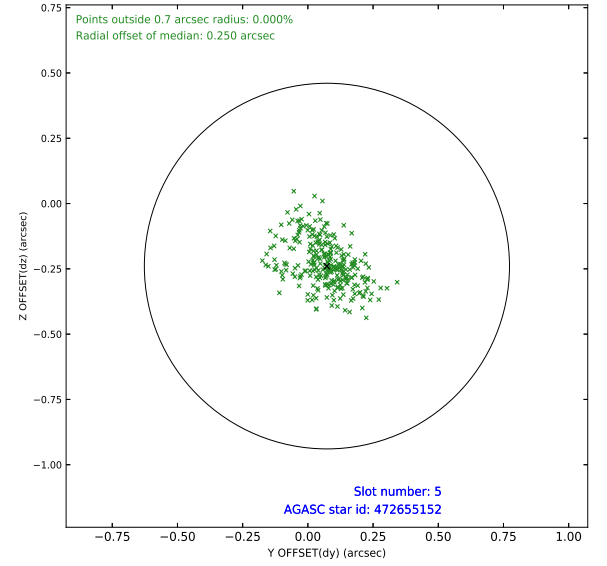
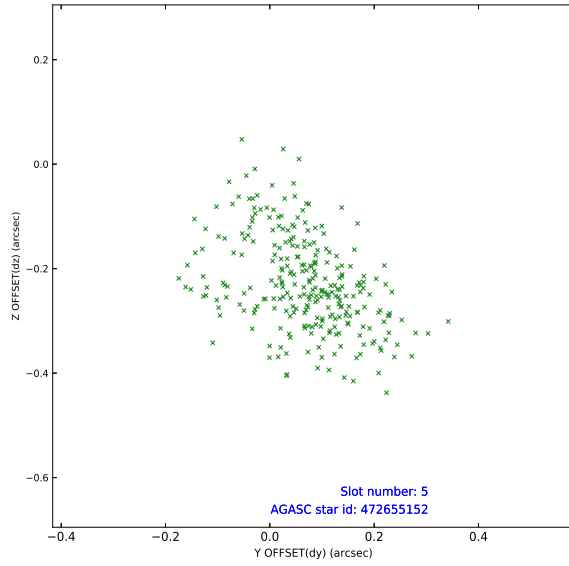
### 2.4.1 Slot 3



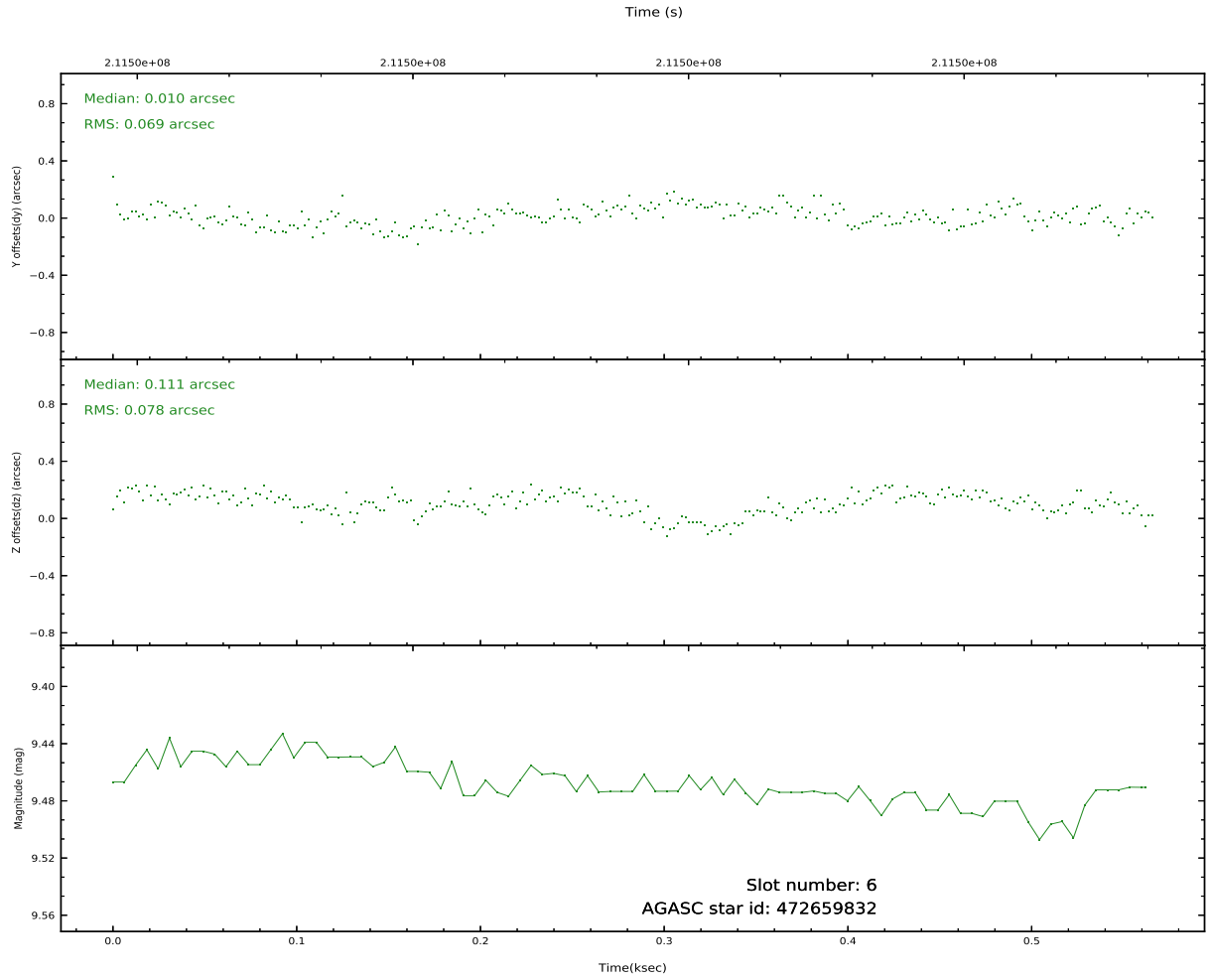
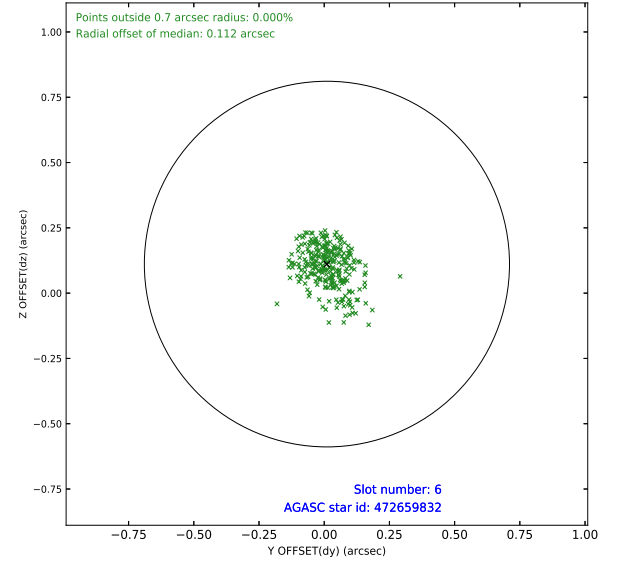
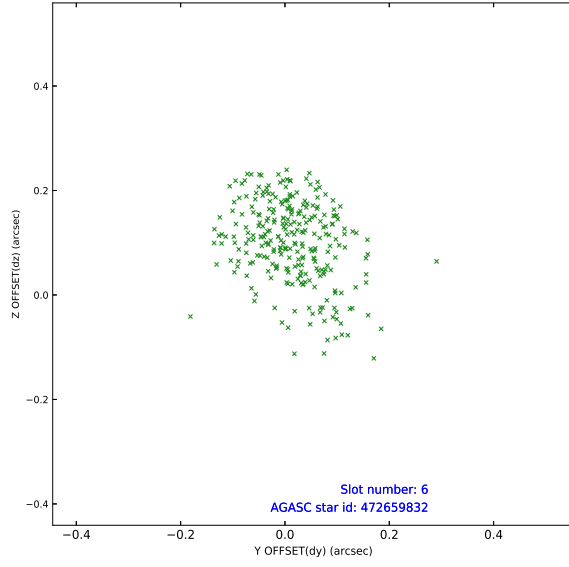
## 2.4.2 Slot 4



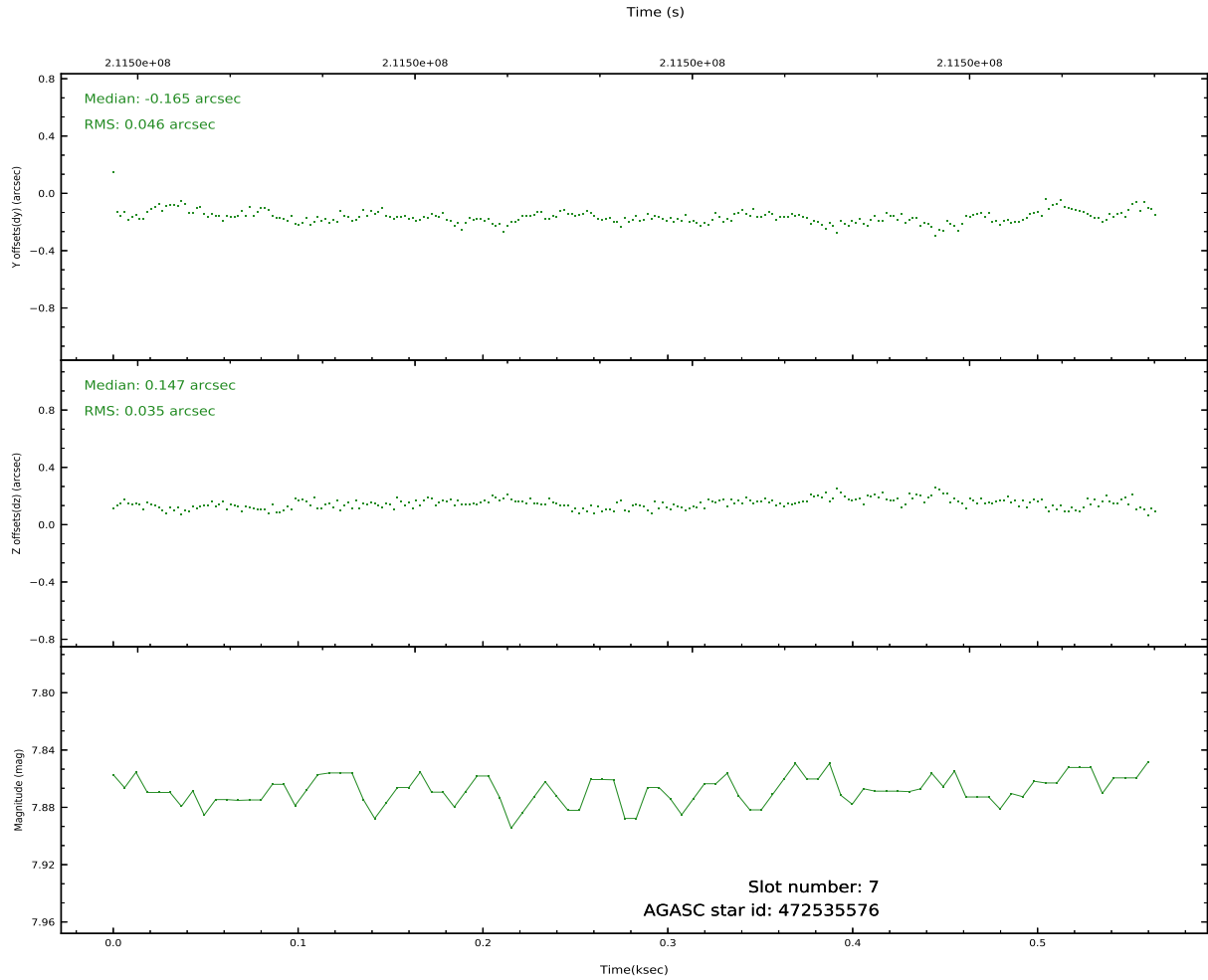
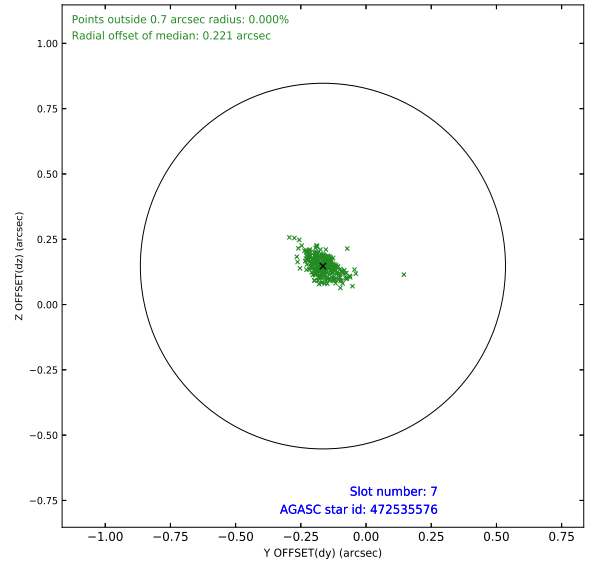
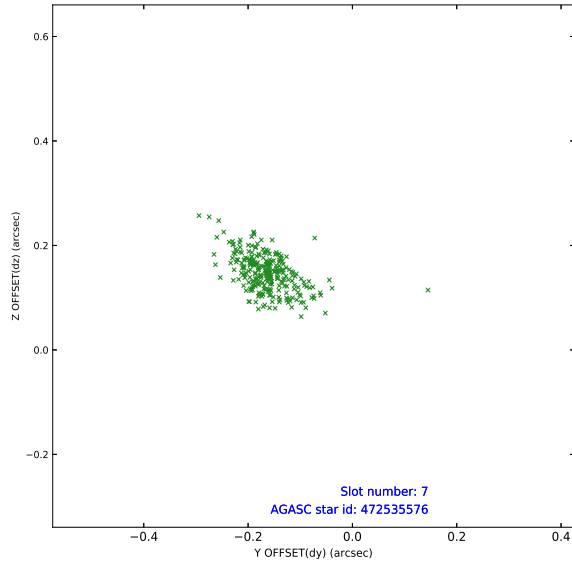
### 2.4.3 Slot 5



## 2.4.4 Slot 6

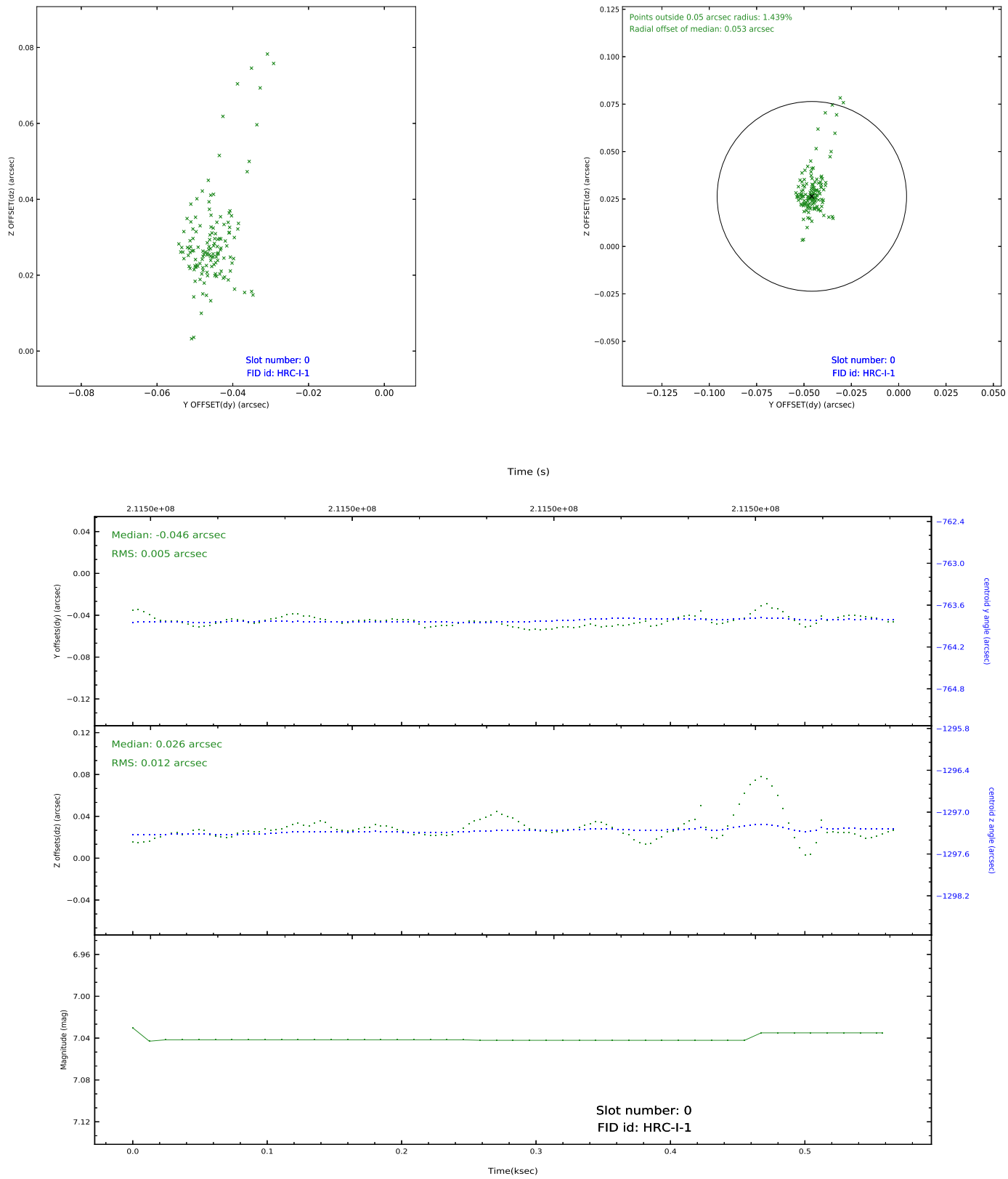


## 2.4.5 Slot 7

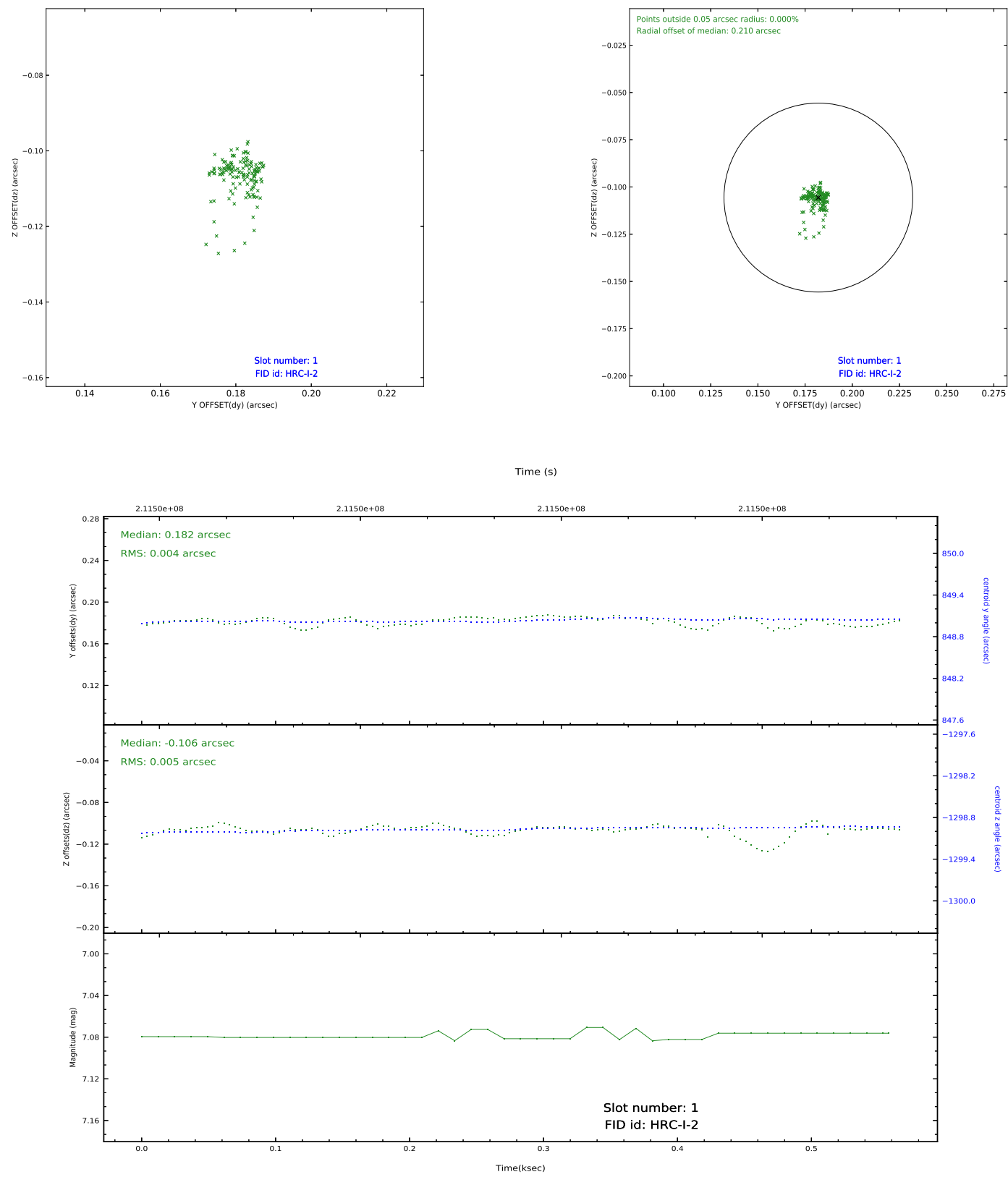


# 2.5 FID Slots

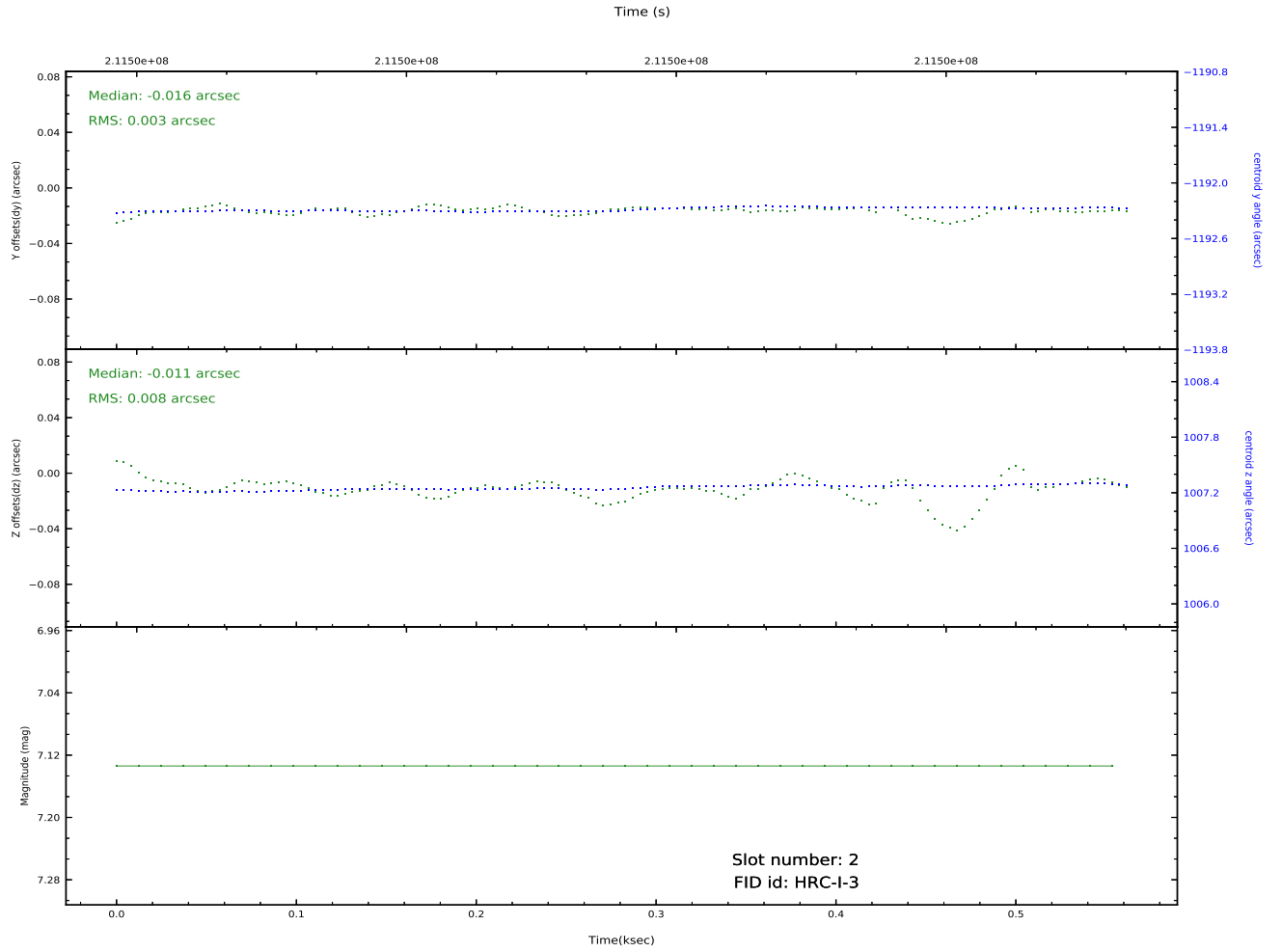
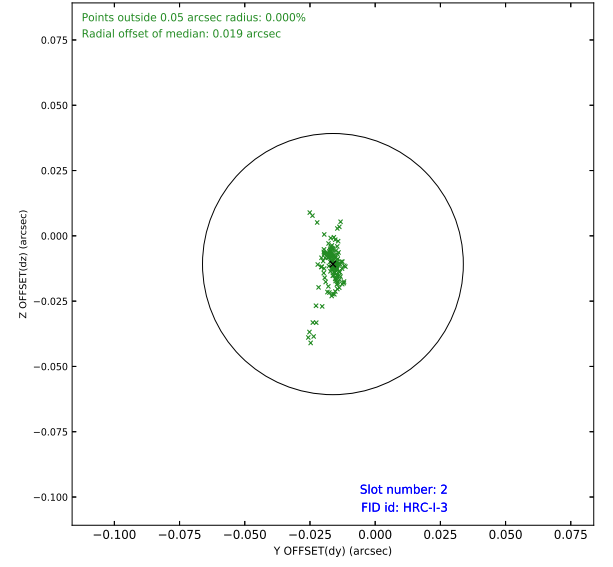
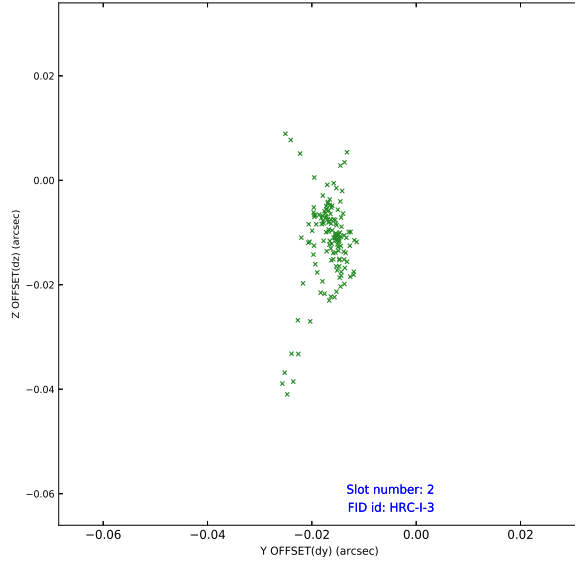
## 2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.609

## A.2 Comments

SCS 107 ran at 21:38, interrupting the observation and causing large SIM motions. These are expected consequences of the safing process.

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Charge time for this observation remains at previous value of 0.609 ksec, although with the current processing the charge time would have been 0.551 ksec.