

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 18954 - L2 Version 2  
Chandra X-Ray Center

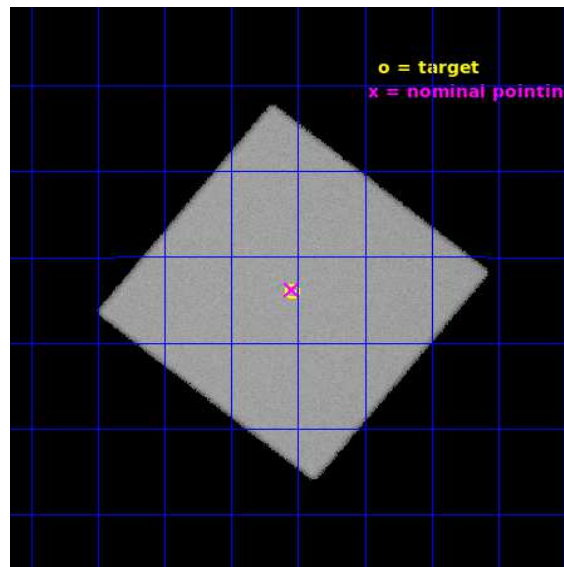
L2 Processing Date : Oct 25 2020

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# 1 Front

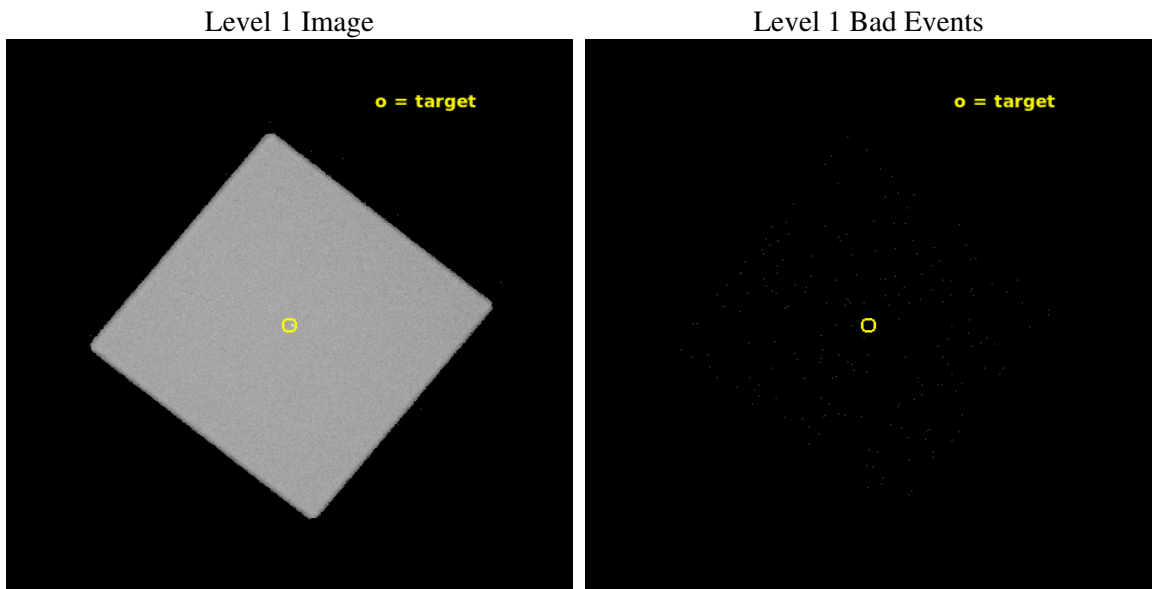
seq_num	401822	Sequence number
obs_id	18954	Observation id
title	Understanding Dust Production in Supergiant X-ray Binaries	Proposa
observer	Thomas Maccarone	Principal investigator
object	IGR J18450-0435	Source name
ra_targ	281.260833	Observer's specified target RA [deg]
dec_targ	-4.565694	Observer's specified target Dec [deg]
ra_nom	281.26170645248	Nominal RA [deg]
dec_nom	-4.563342863853	Nominal Dec [deg]
roll_nom	83.887339389559	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10154.675599098	[s]
livetime	10015.459931502	Ontime multiplied by DTCOR
l2events	1193694	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10154.675599098	[s]
caldsver	4.9.3	&#160	l1events	1714522	Number of level 1 events
date	2020-10-25T04:18:23	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

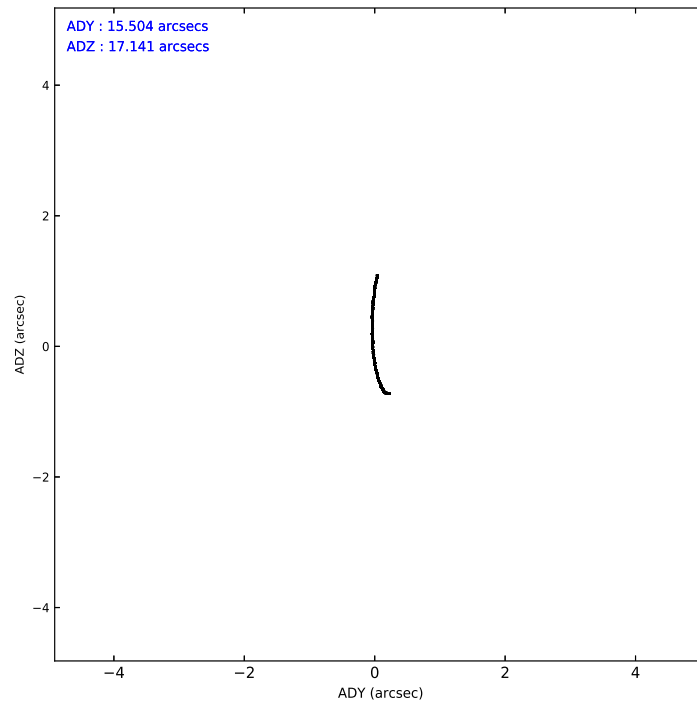
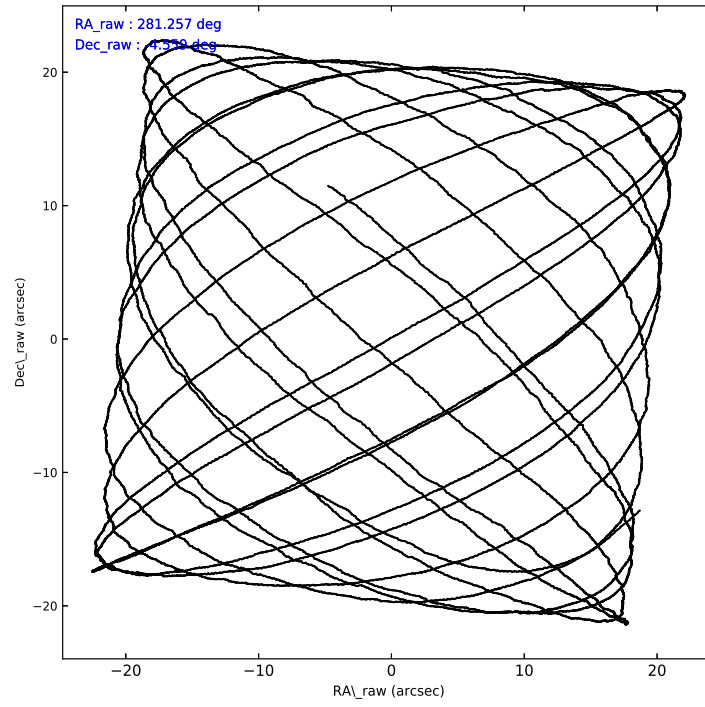
	<b>segment 0</b>
level 1 events	1714522
rejected events	138968
rejected %	<b>8%</b>

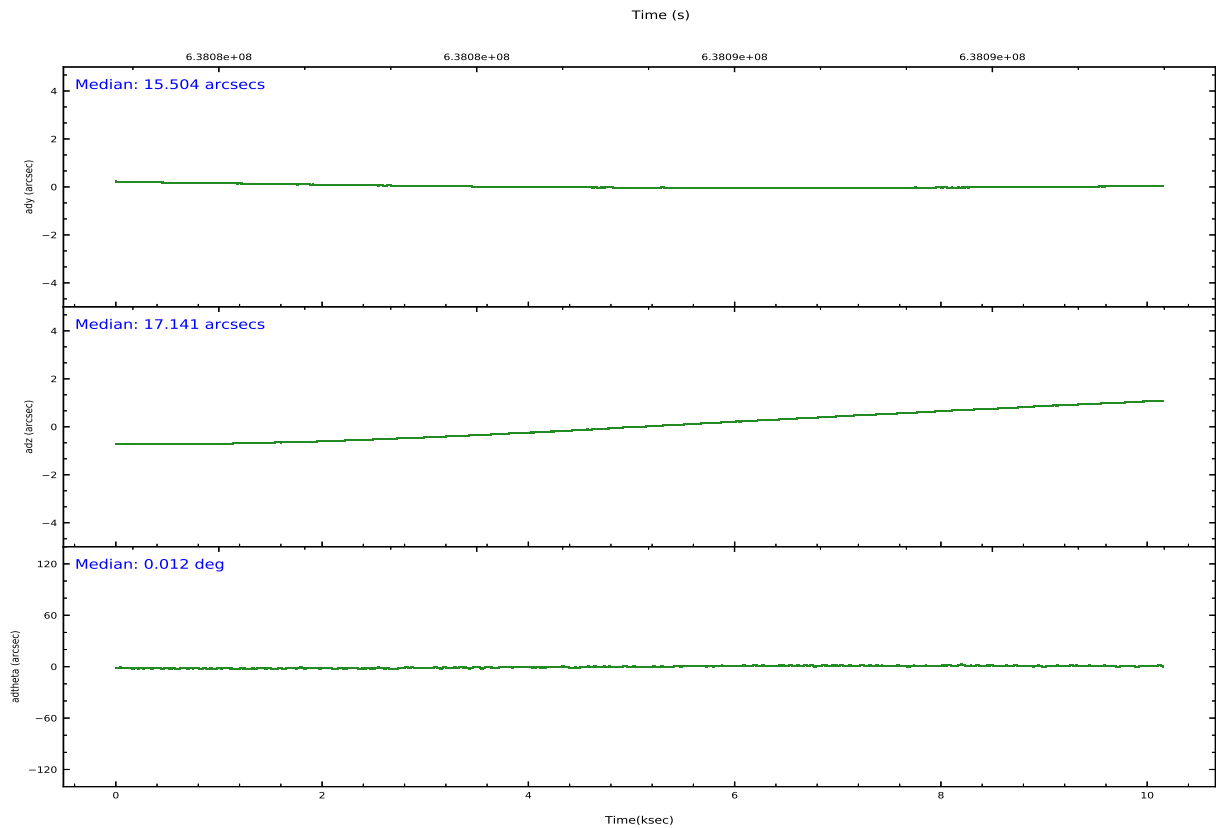
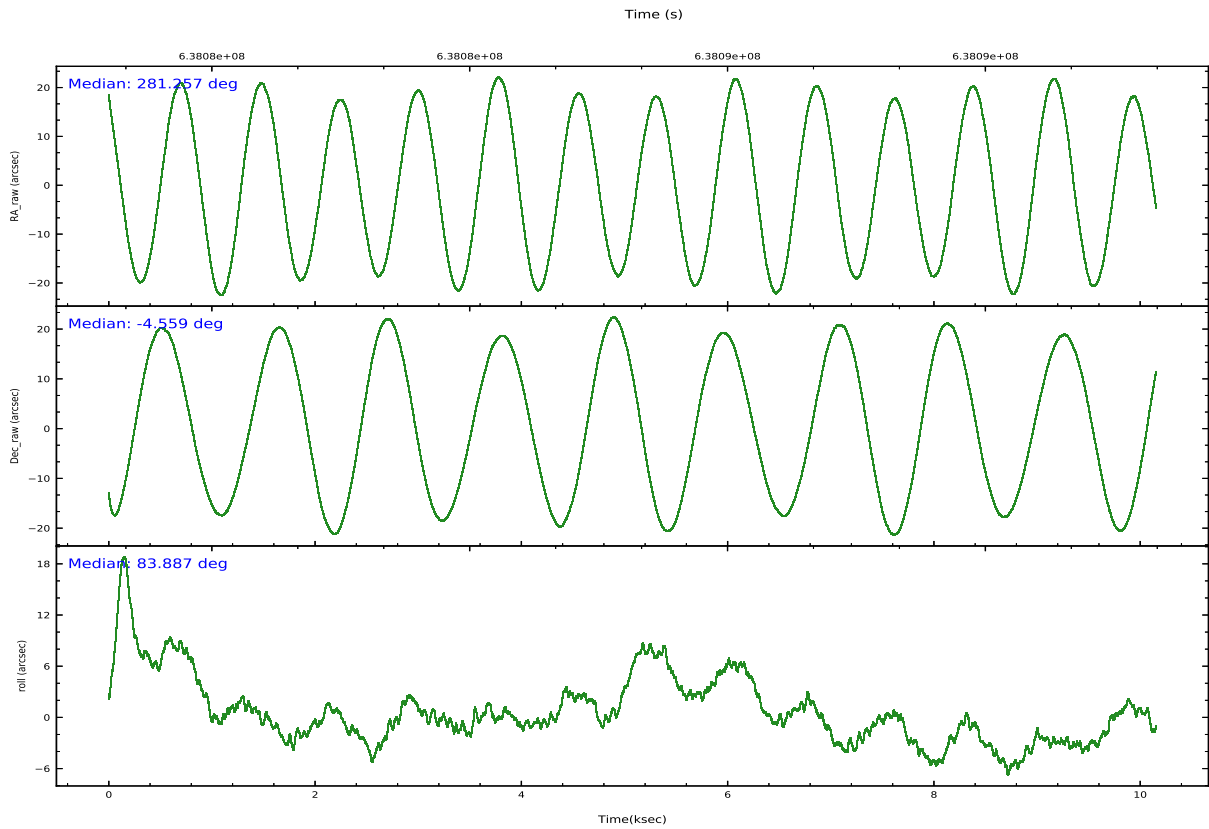
## 2.2 Compared Parameters

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	281.268864	281.26170645248
[deg] Pointing Dec	-4.583032	-4.563342863853
[deg] Pointing Roll	84.000637	83.887339389559
[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)	638081655.184000	638080626.62265
Observation start date	2018-03-22T04:53:06	2018-03-22T04:37:06
[s] Observation end time (MET)	638091655.184000	638092624.76086
Observation end date	2018-03-22T07:39:46	2018-03-22T07:57:04

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

## 2.3 Aspect





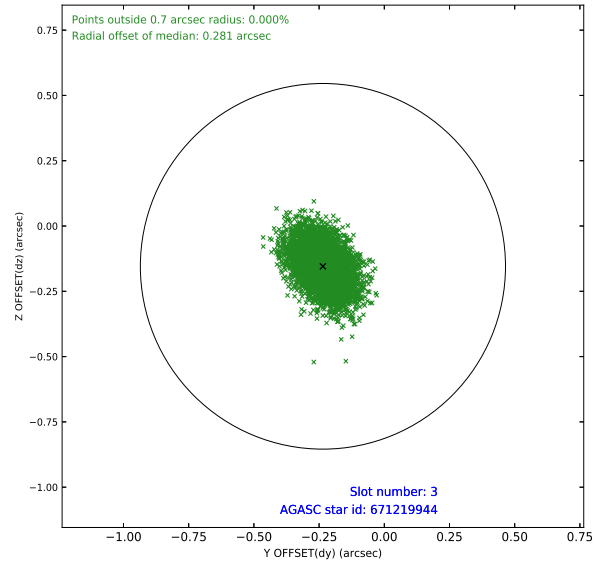
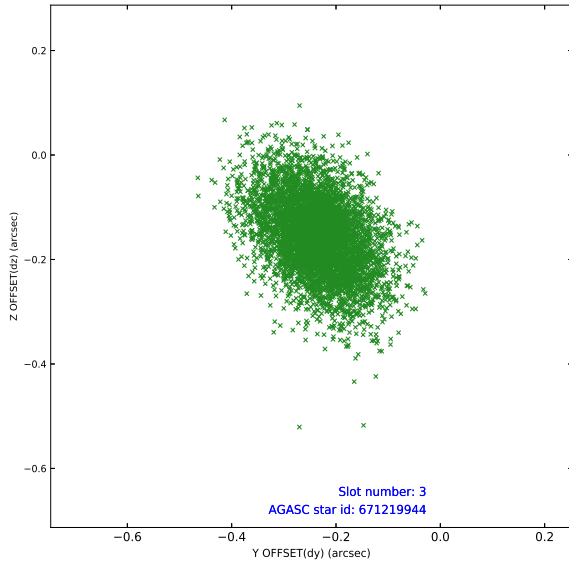
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.04	2477	1.000	0.255	-0.183	0.018	0.032	0.000000	0.000000	841.45	-1307
1	FID		HRC-I-3	7.10	2477	1.000	-0.220	0.199	0.016	0.032	0.000000	0.000000	-1199.65	998
2	FID		HRC-I-4	7.04	2477	1.000	0.087	-0.097	0.019	0.027	0.000000	0.000000	1271.11	997
3	GUIDE	used	671219944	8.36	4948	1.000	-0.235	-0.154	0.100	0.170	280.991216	-4.477272	273.88	1031
4	GUIDE	used	671224840	7.95	4955	1.000	0.049	0.085	0.110	0.187	281.186627	-5.187666	-2195.14	66
5	GUIDE	used	671354248	8.15	4954	1.000	0.029	0.278	0.100	0.175	281.385242	-4.677171	-293.45	-450
6	GUIDE	used	671221480	9.15	4949	1.000	0.070	-0.158	0.152	0.252	280.711295	-4.815985	-1043.97	1901
7	GUIDE	used	671222976	7.89	4953	1.000	0.086	-0.042	0.099	0.173	281.033634	-5.005625	-1601.14	680

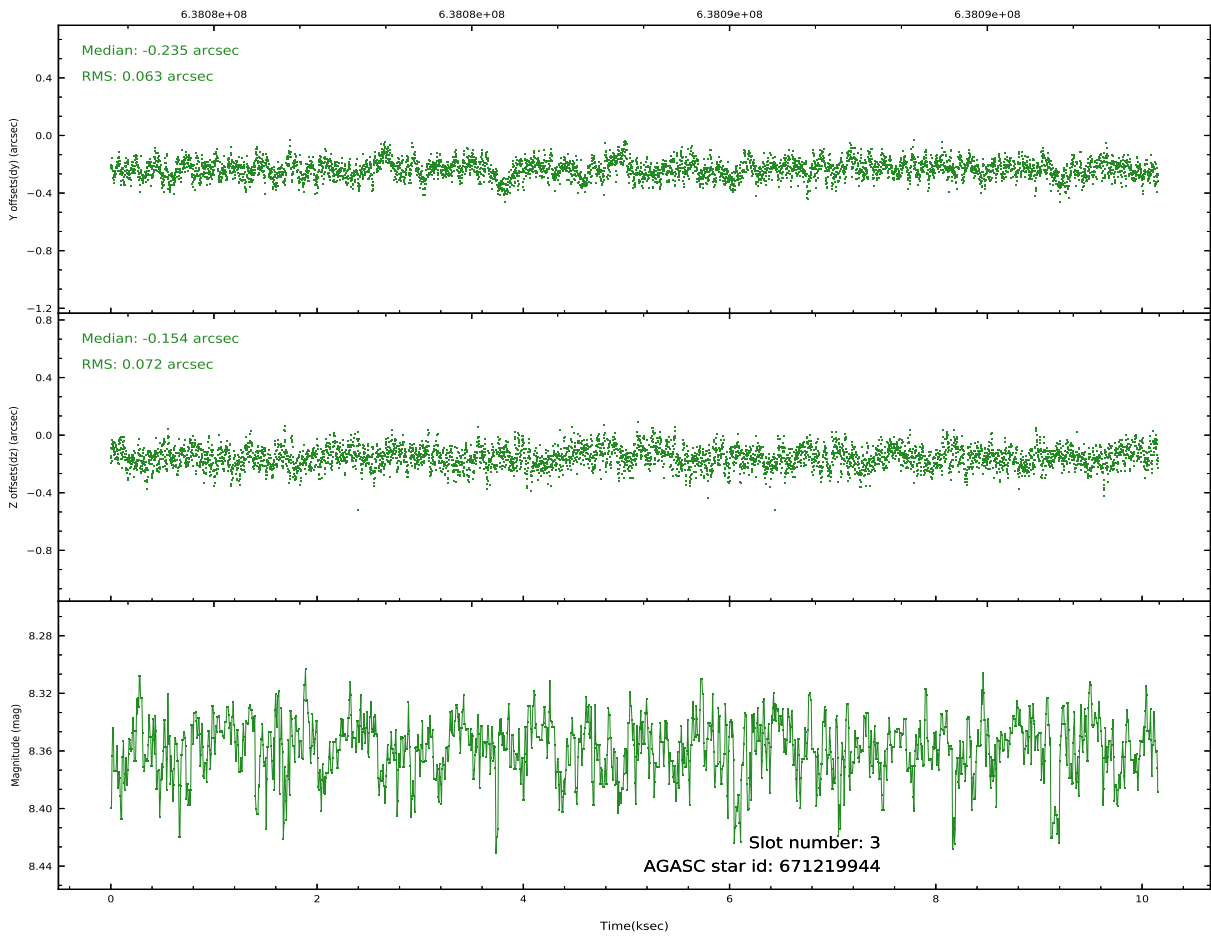
∞

## 2.4 Star Slots

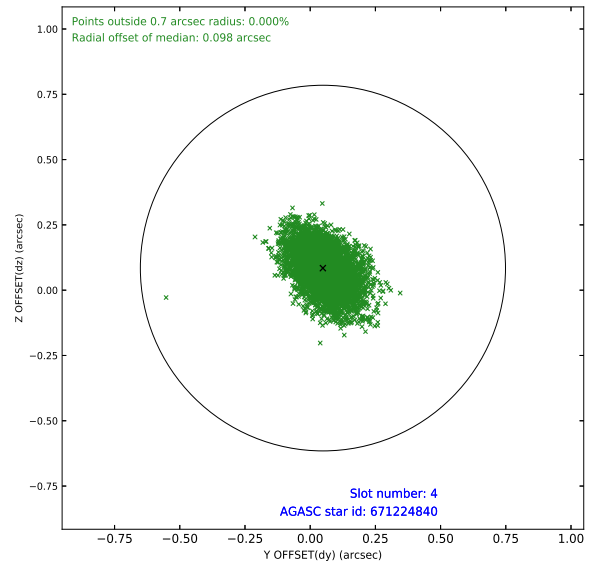
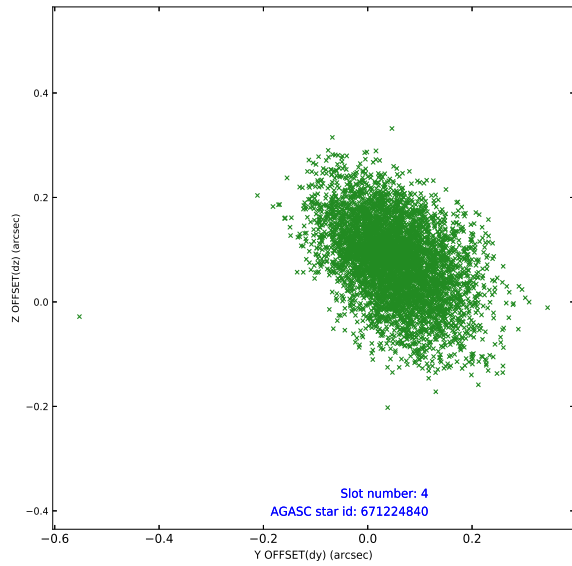
### 2.4.1 Slot 3



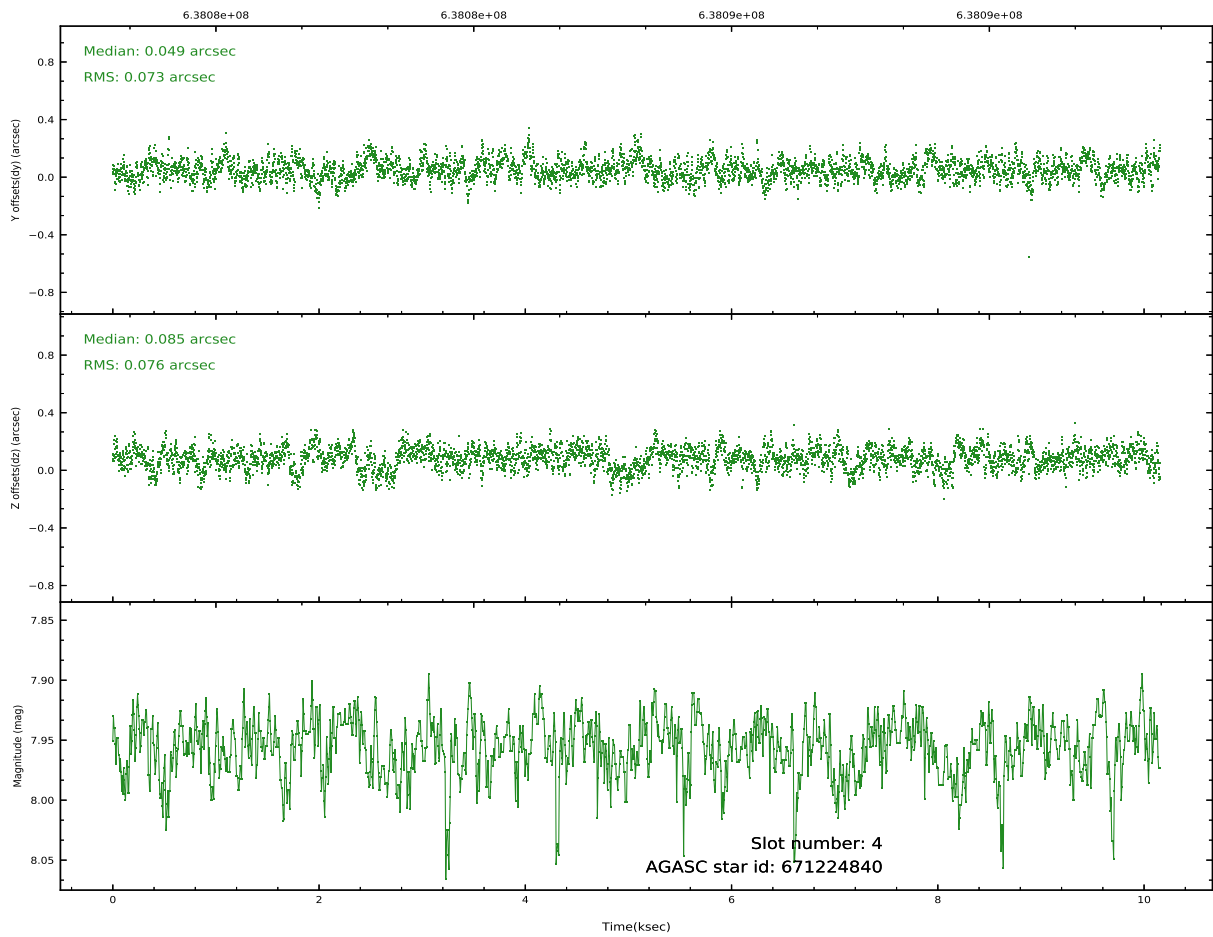
Time (s)



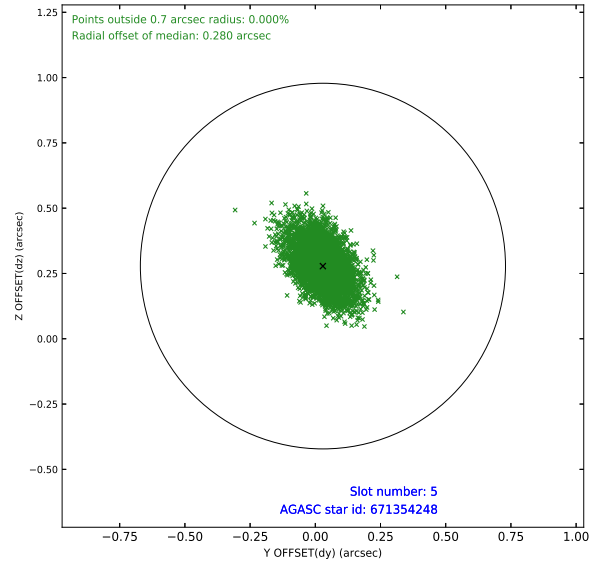
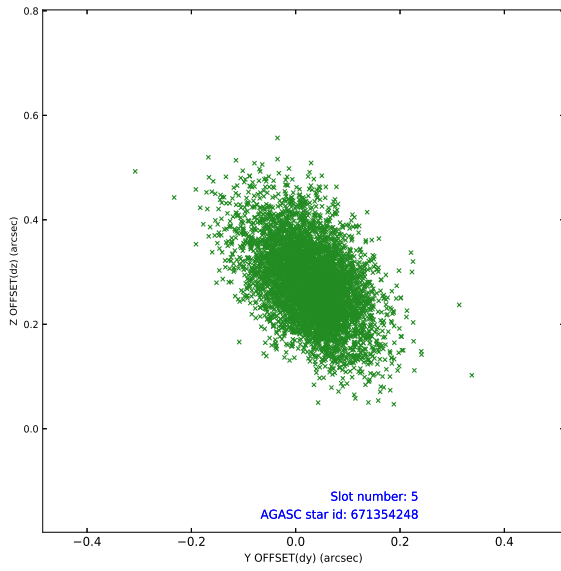
## 2.4.2 Slot 4



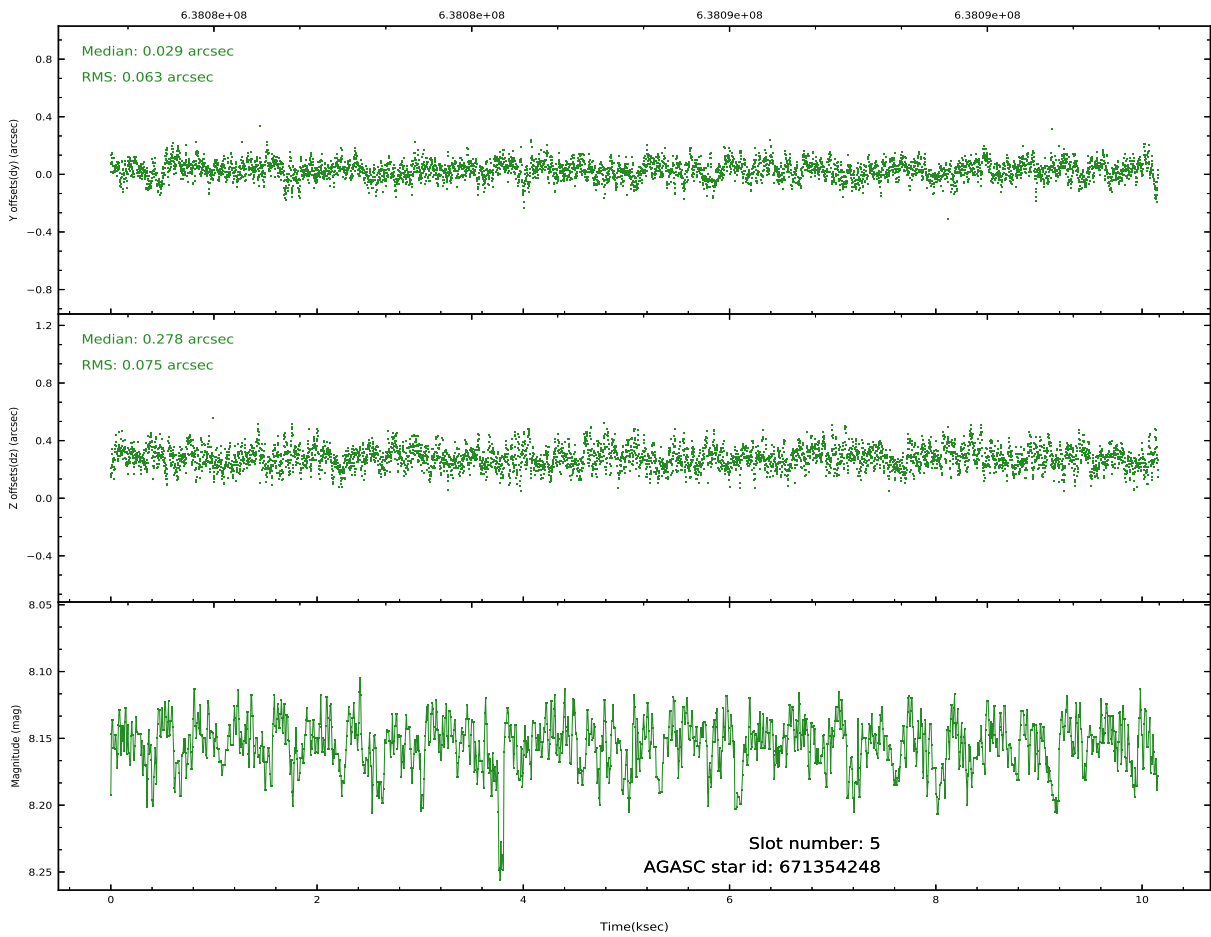
Time (s)



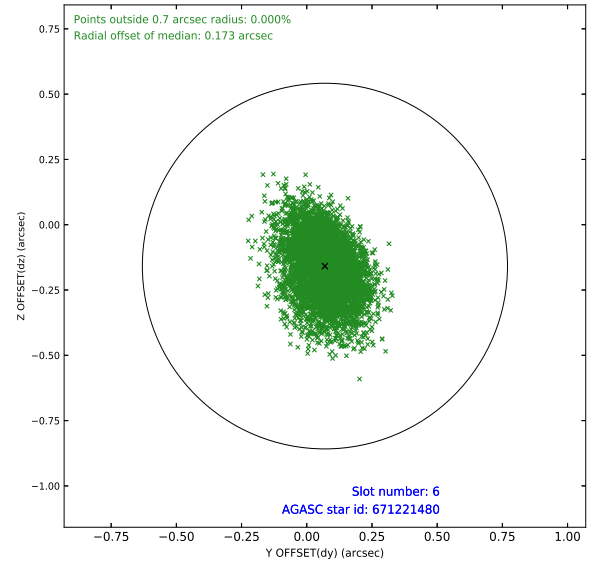
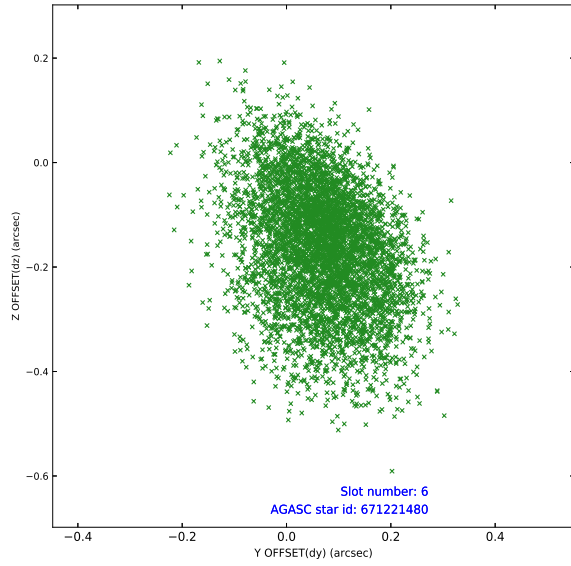
### 2.4.3 Slot 5



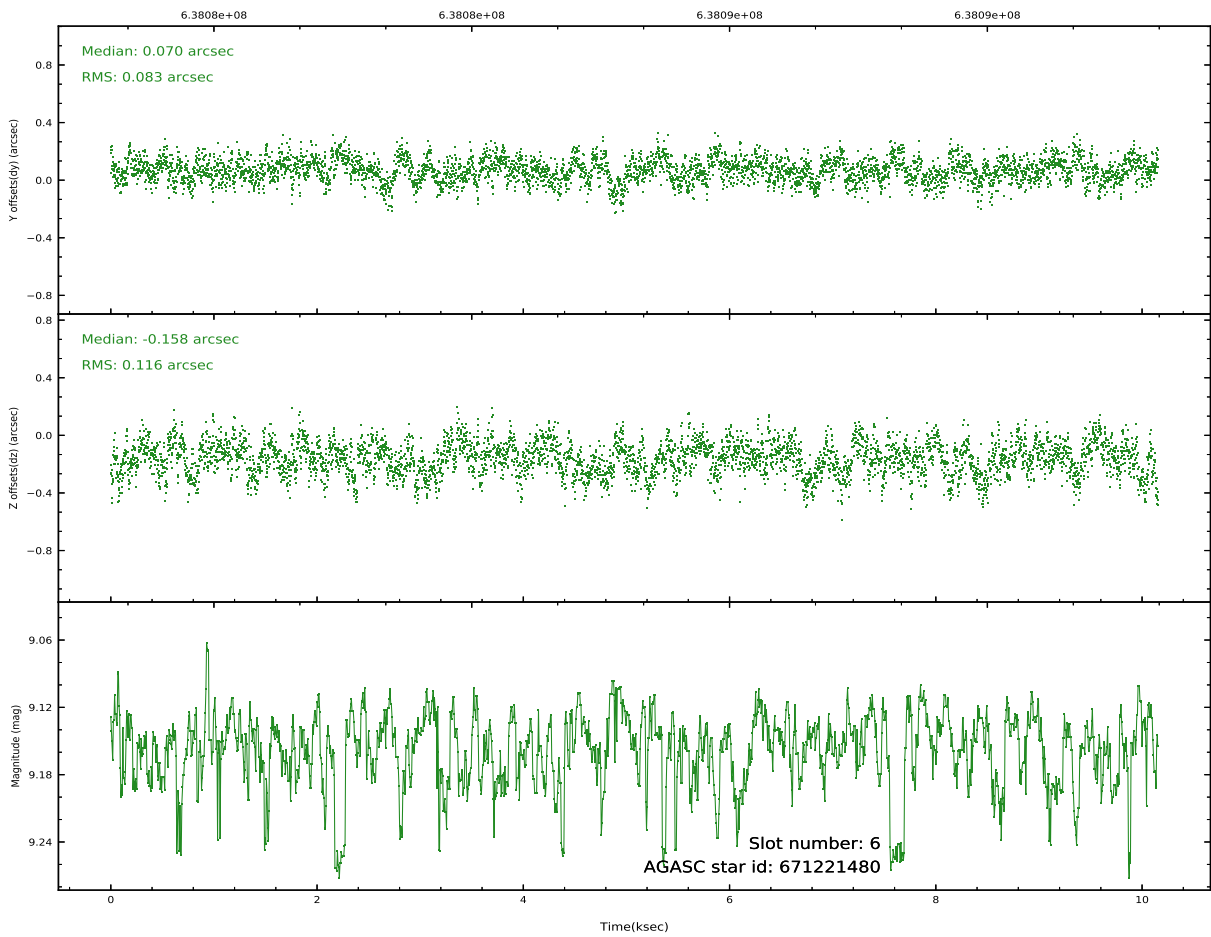
Time (s)



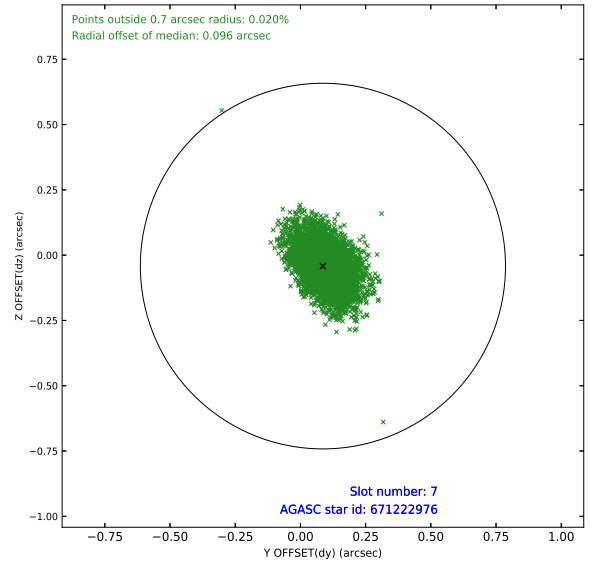
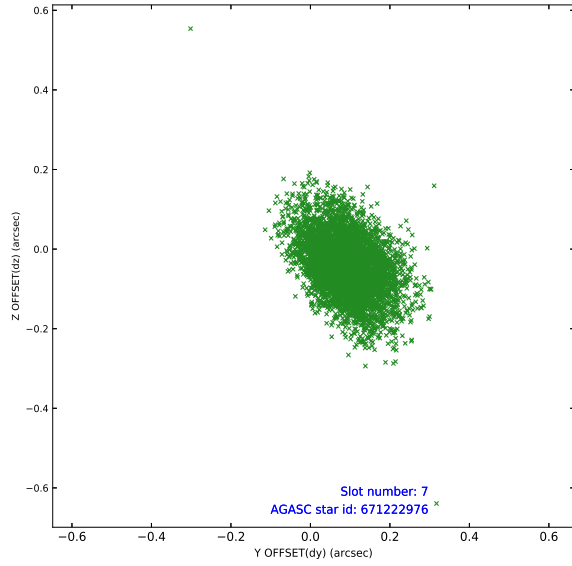
## 2.4.4 Slot 6



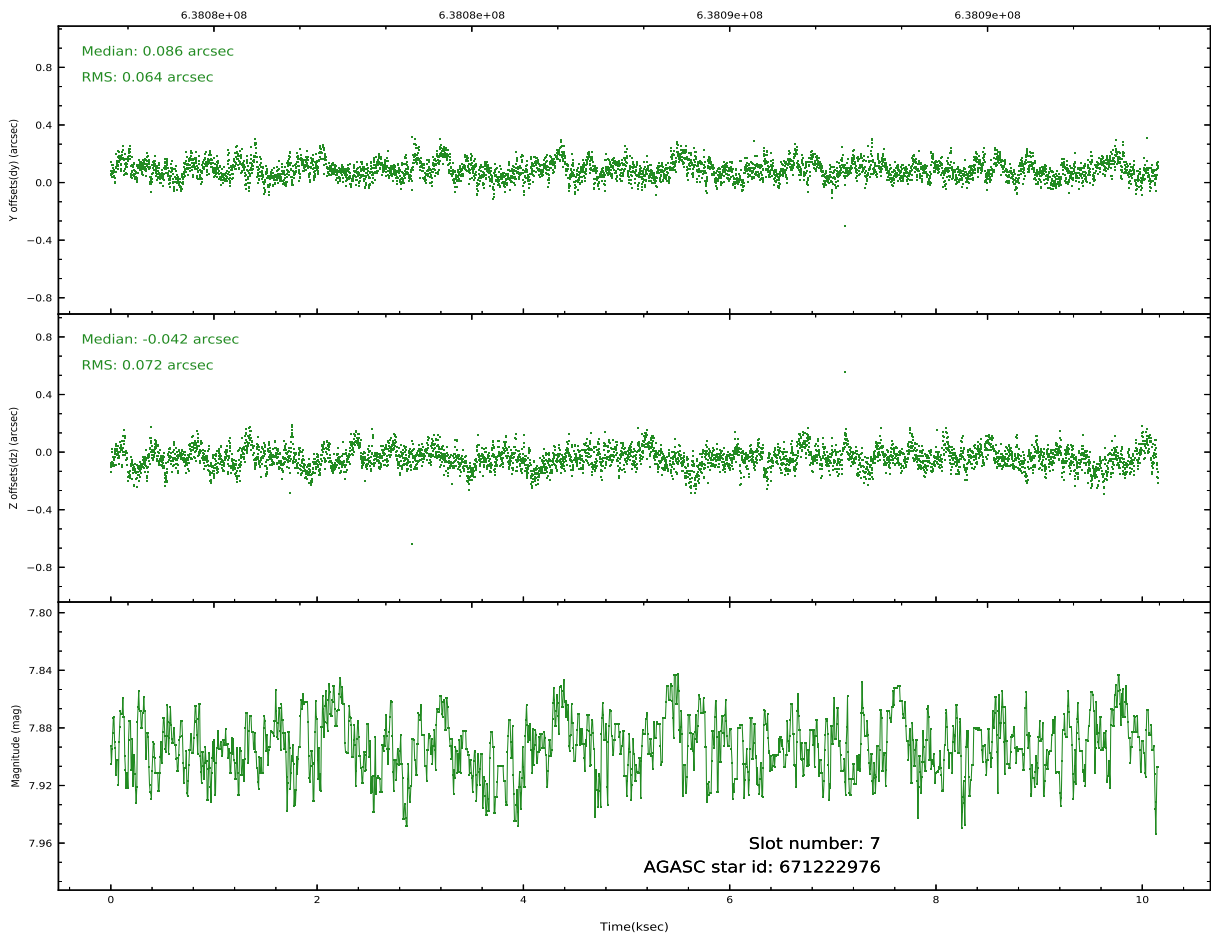
Time (s)



## 2.4.5 Slot 7

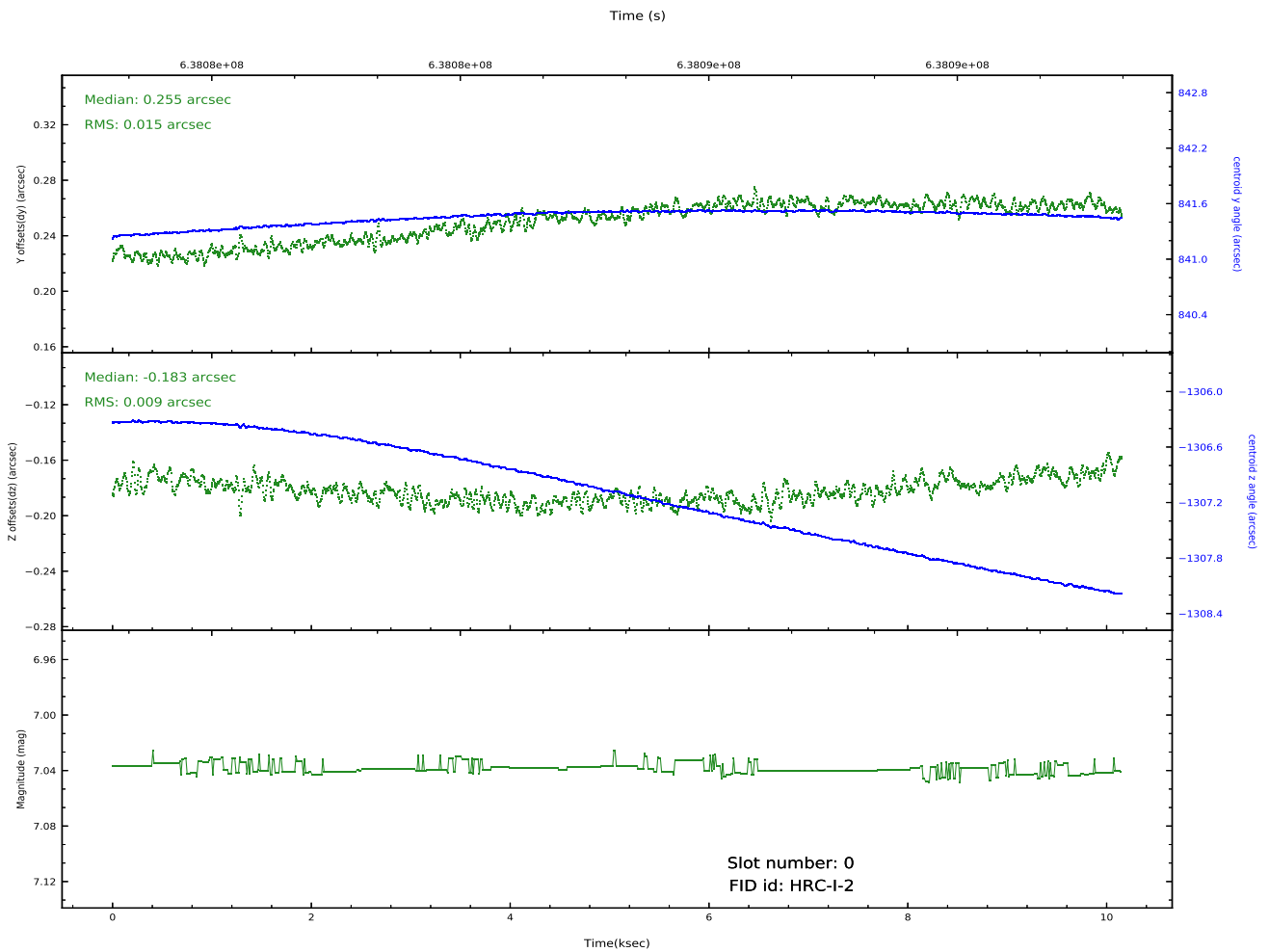
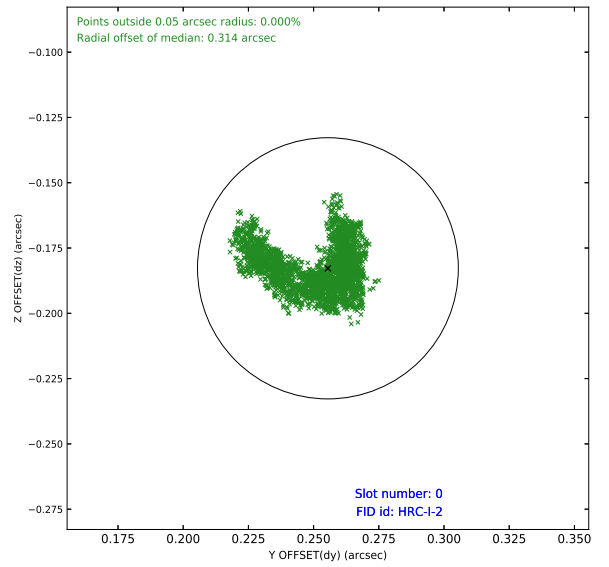
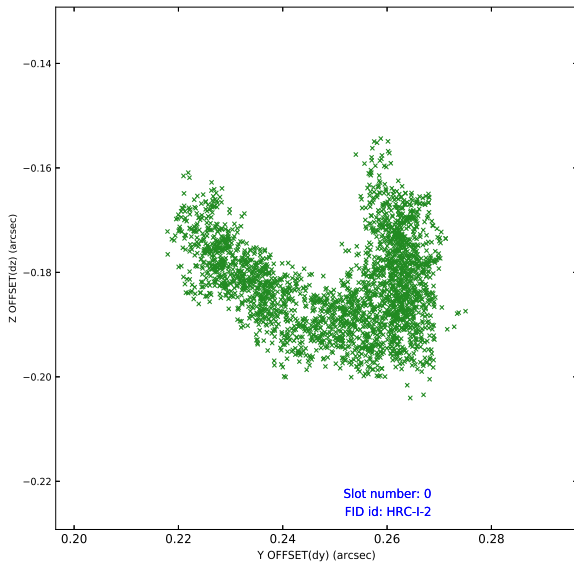


Time (s)

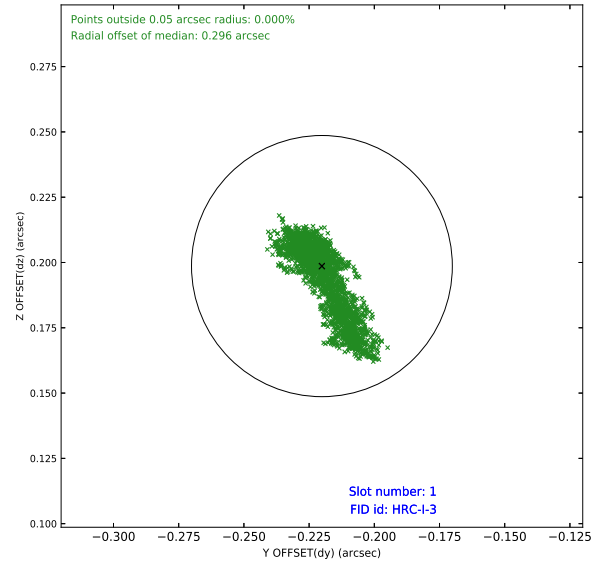
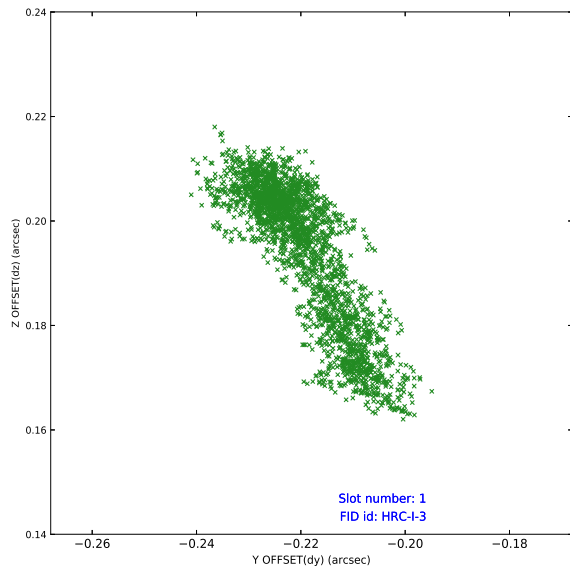


## 2.5 FID Slots

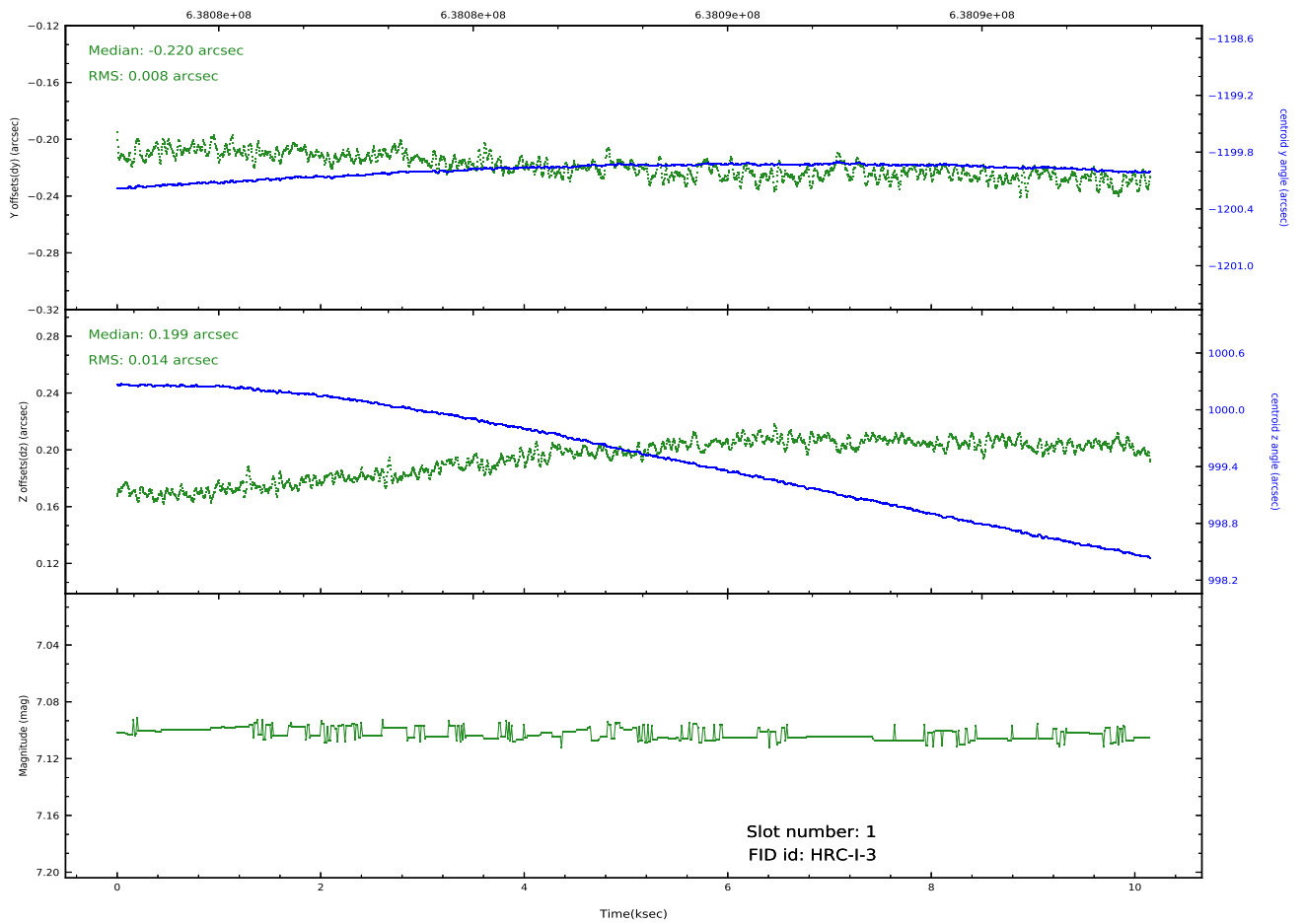
### 2.5.1 Slot 0



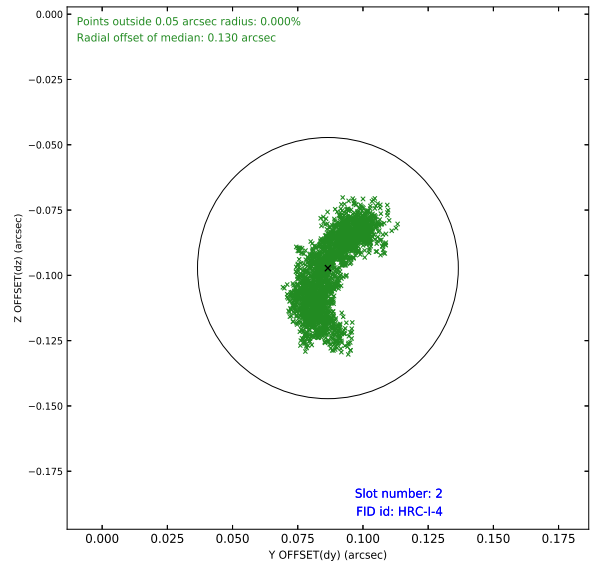
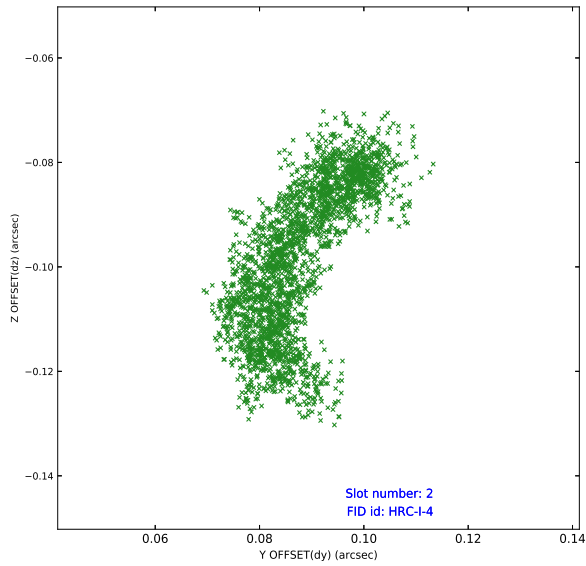
## 2.5.2 Slot 1



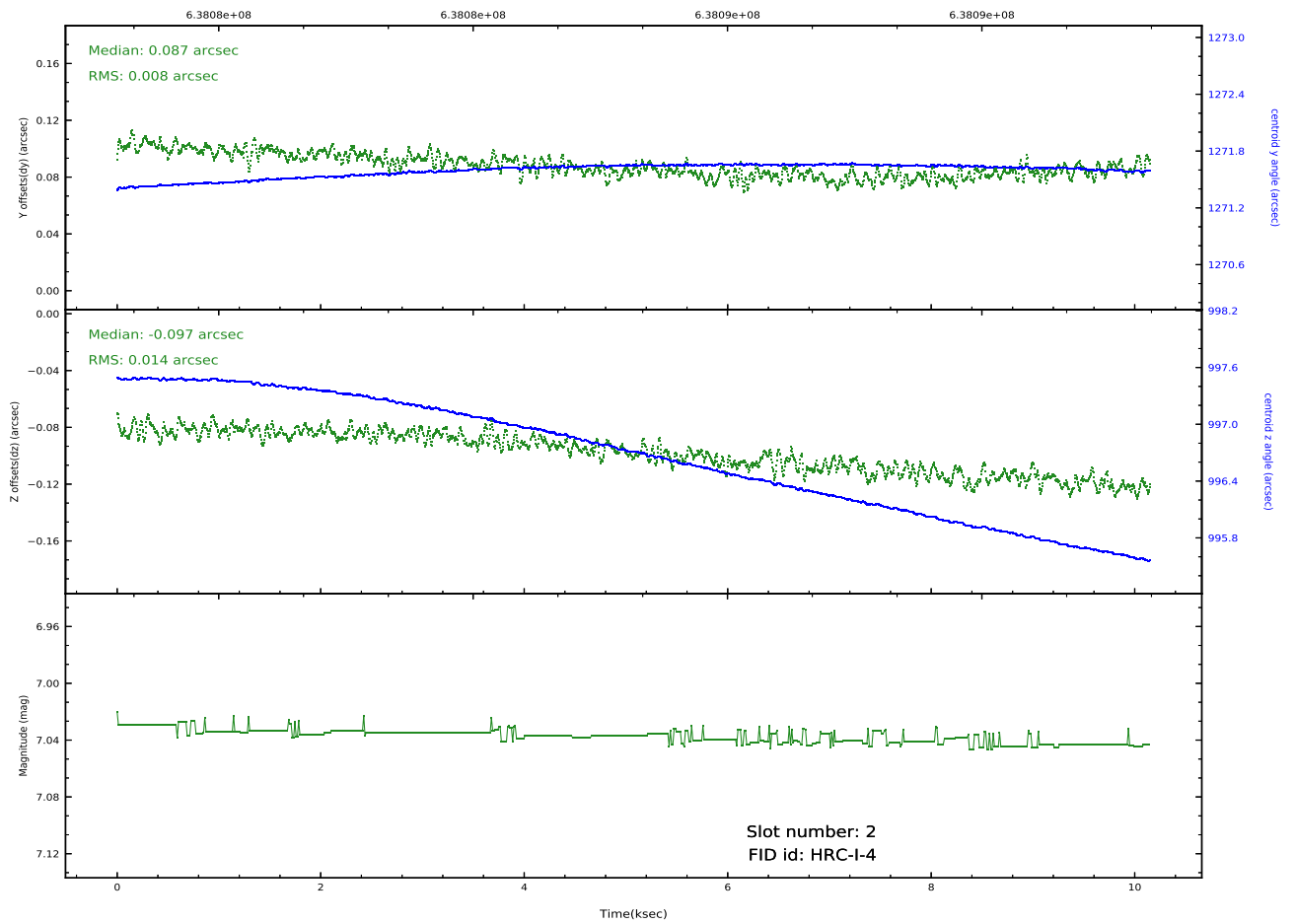
Time (s)



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.154931849241

## A.2 Comments