

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 20259 - L2 Version 2  
Chandra X-Ray Center

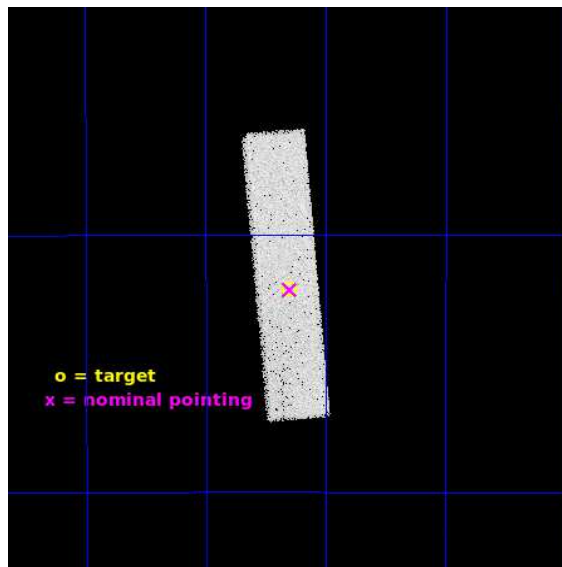
L2 Processing Date : Oct 27 2020

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# 1 Front

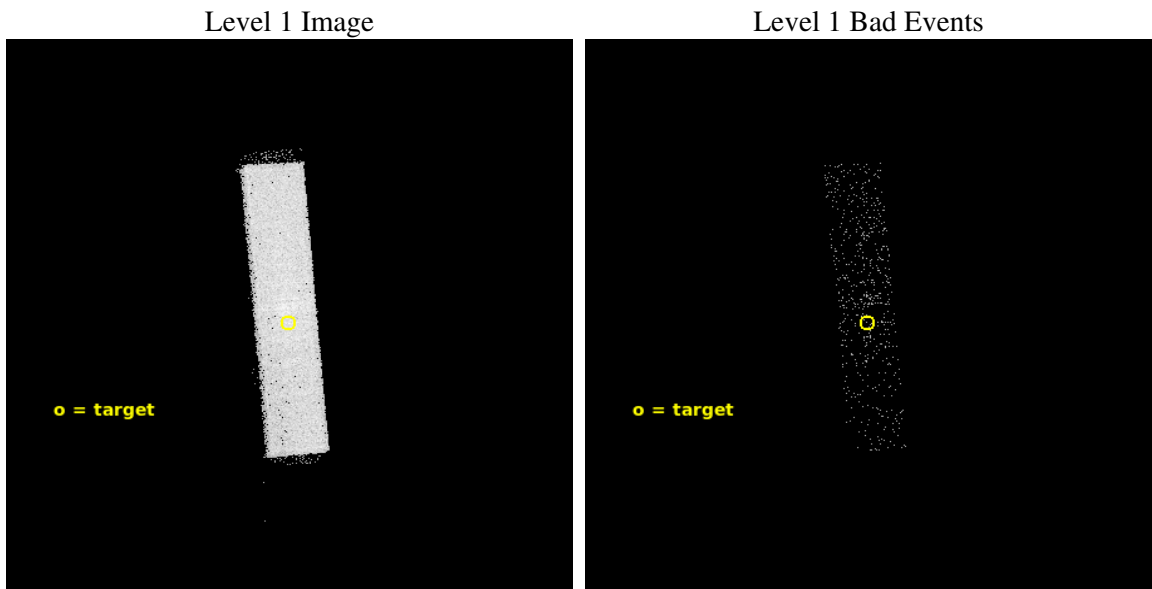
seq_num	401986	Sequence number
obs_id	20259	Observation id
title	Precise Localization of Transient Low-Mass X-ray Binaries	Proposal
observer	Deepto Chakrabarty	Principal investigator
object	IGR J17503-2636	Source name
ra_targ	267.57527	Observer's specified target RA [deg]
dec_targ	-26.60458	Observer's specified target Dec [deg]
ra_nom	267.57449397172	Nominal RA [deg]
dec_nom	-26.606430203437	Nominal Dec [deg]
roll_nom	265.05988084621	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1021.0281877518	[s]
livetime	1016.5576289764	Ontime multiplied by DTCOR
l2events	50831	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	10.9.2	Processing system revision	ontime	1022.1813107729	[s]
caldbver	4.9.3	&#160	l1events	69336	Number of level 1 events
date	2020-10-27T09:08:33	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

Level 1 Events

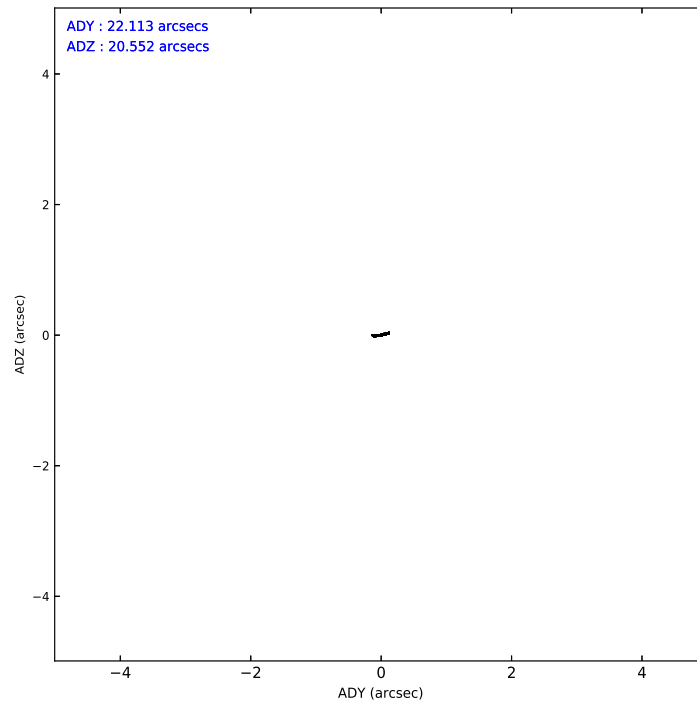
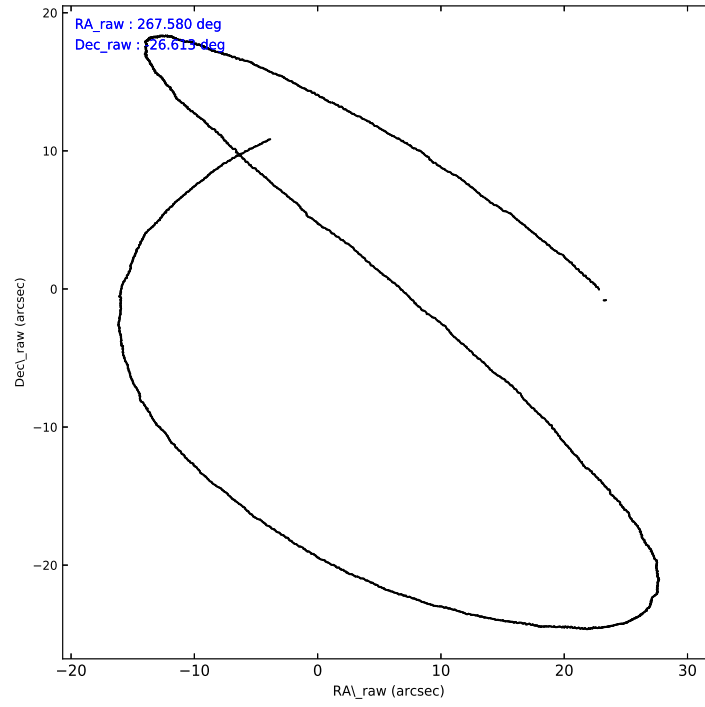
	segment 1	segment 2	segment 3
level 1 events	59	69243	34
rejected events	2	4000	4
rejected %	3%	5%	11%

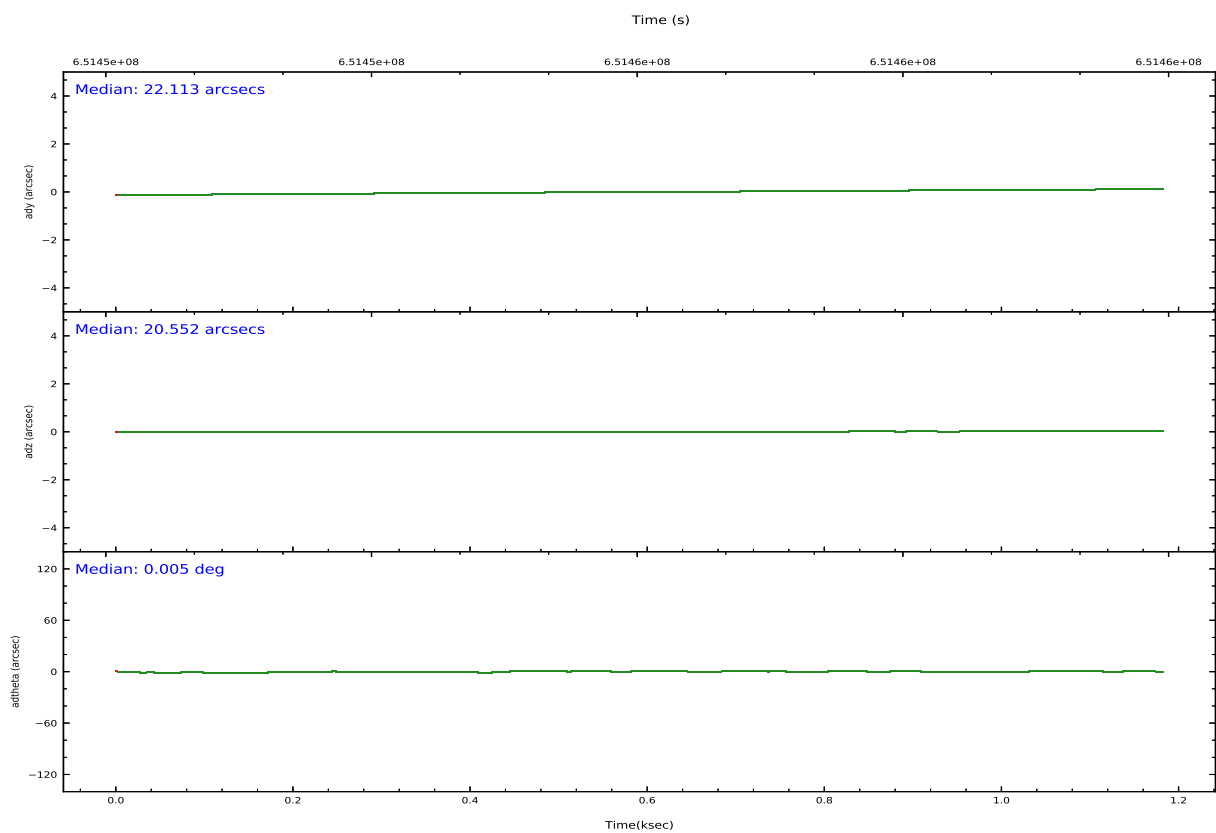
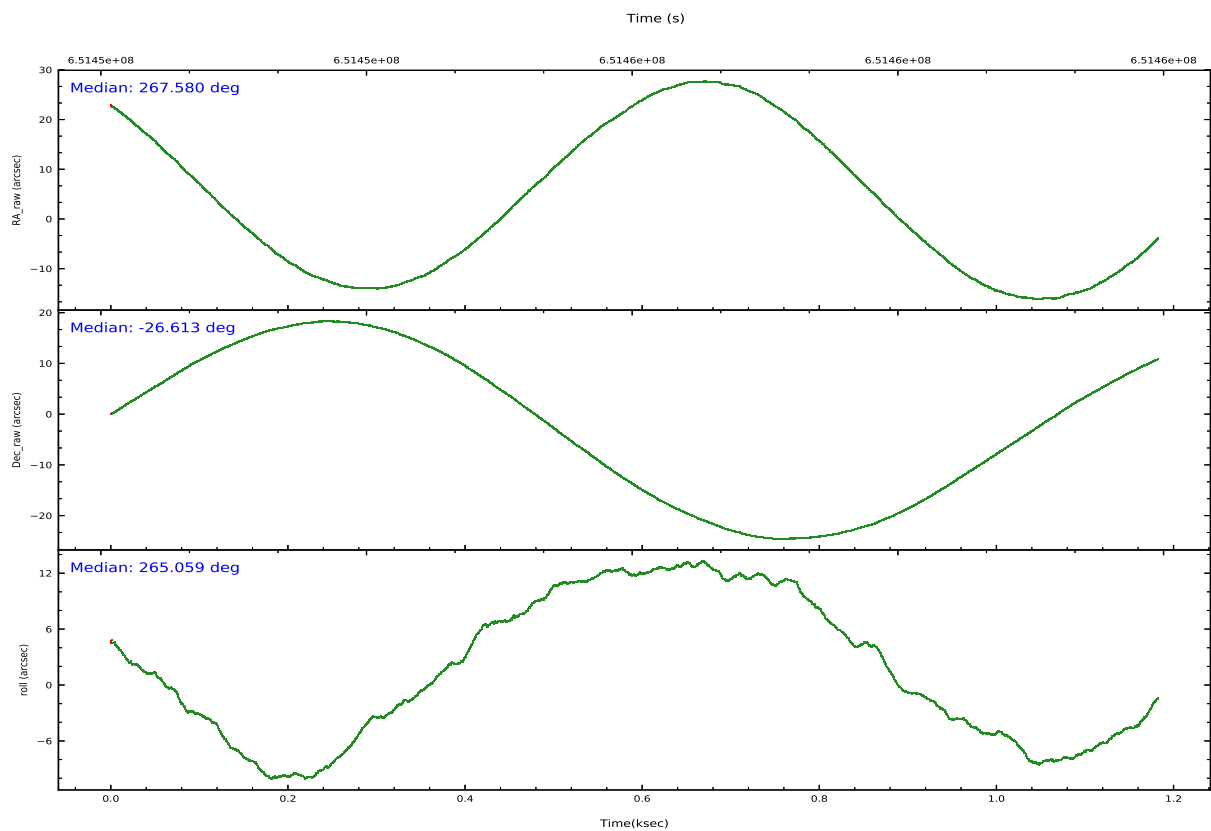
## 2.2 Compared Parameters

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	267.566358	267.57449397172
[deg] Pointing Dec	-26.588028	-26.606430203437
[deg] Pointing Roll	264.996014	265.05988084621
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	651454794.184000	651454302.6138099
Observation start date	2018-08-23T23:38:45	2018-08-23T23:31:42
[s] Observation end time (MET)	651455794.184000	651456780.55146
Observation end date	2018-08-23T23:55:25	2018-08-24T00:13:00

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

## 2.3 Aspect





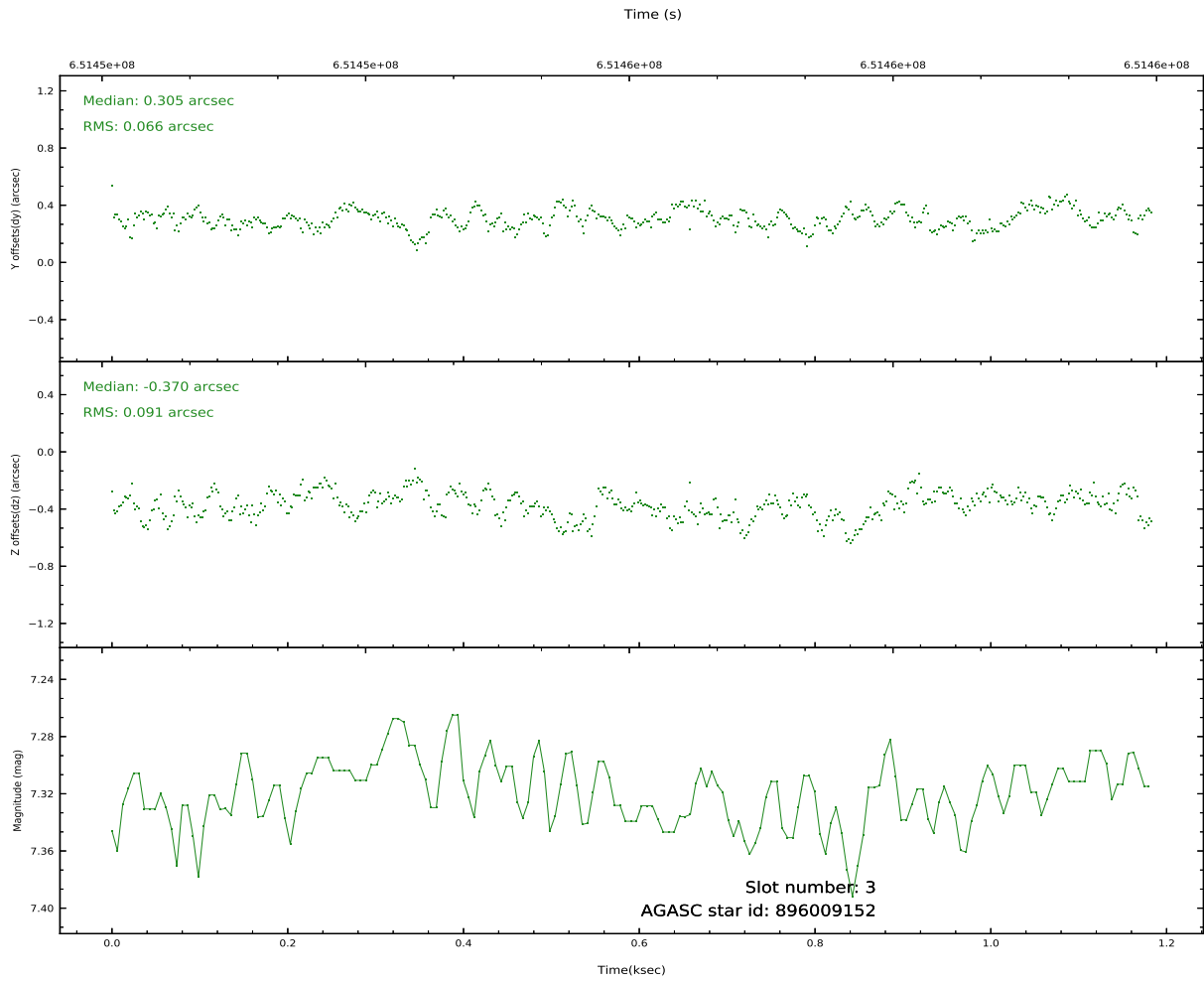
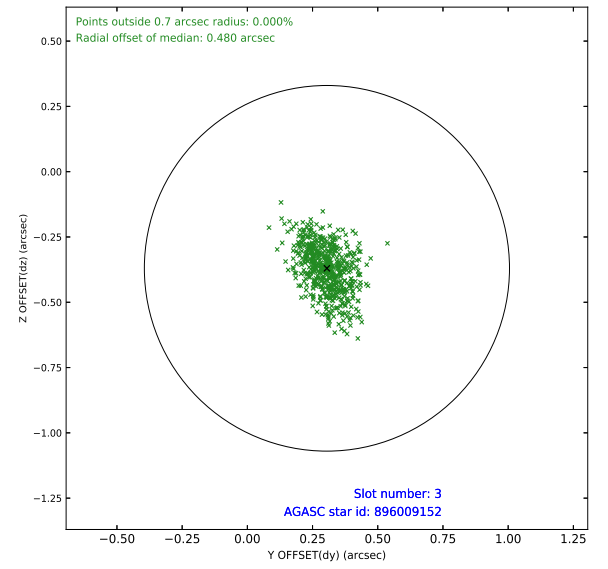
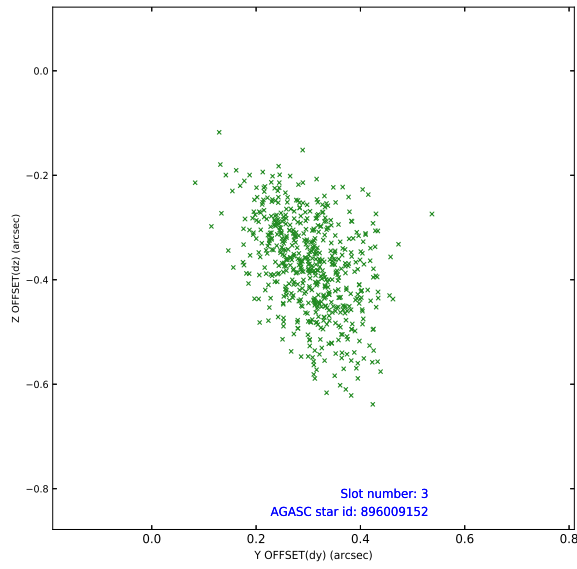
Slot Statistics

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	7.06	289	1.000	0.113	-0.202	0.007	0.012	0.000000	0.000000	-1176.72	-469
1	FID		HRC-S-2	7.03	289	1.000	0.318	-0.173	0.006	0.011	0.000000	0.000000	1219.07	-464
2	FID		HRC-S-3	7.06	289	1.000	-0.042	0.074	0.007	0.014	0.000000	0.000000	-1175.23	558
3	GUIDE	used	896009152	7.32	578	1.000	0.305	-0.370	0.117	0.203	267.588100	-27.061669	1694.67	221
4	GUIDE	used	897192352	8.86	577	1.000	-0.196	0.281	0.146	0.250	268.240875	-26.051045	-2106.84	2009
5	GUIDE	used	897712576	8.09	577	1.000	-0.246	0.056	0.143	0.247	268.256910	-26.333794	-1103.07	2147
6	GUIDE	used	896013056	8.52	578	1.000	0.425	-0.300	0.156	0.259	266.762141	-26.954413	1546.97	-2448
7	GUIDE	used	897190456	9.26	577	1.000	-0.268	0.328	0.210	0.395	268.335862	-26.003428	-2303.20	2296

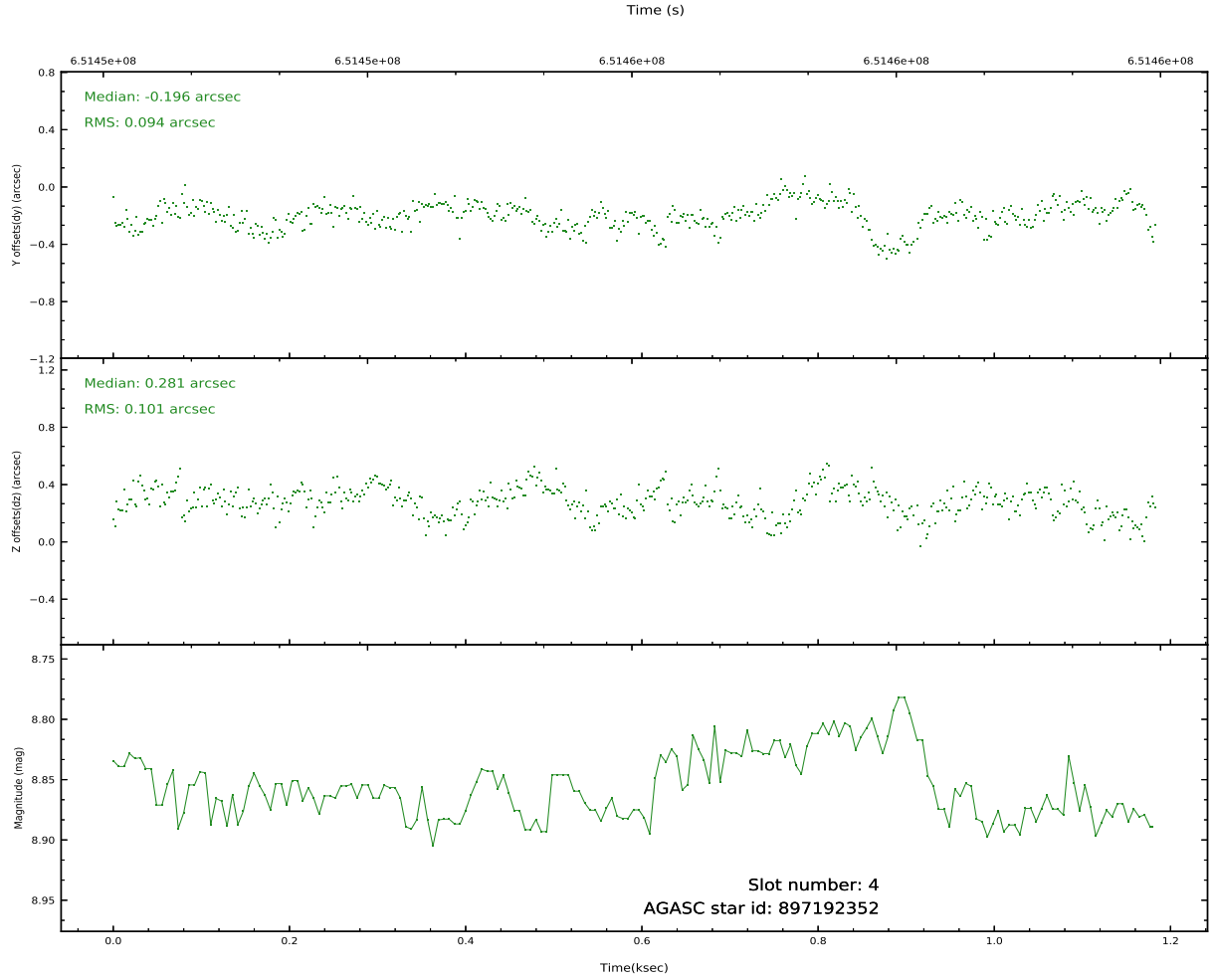
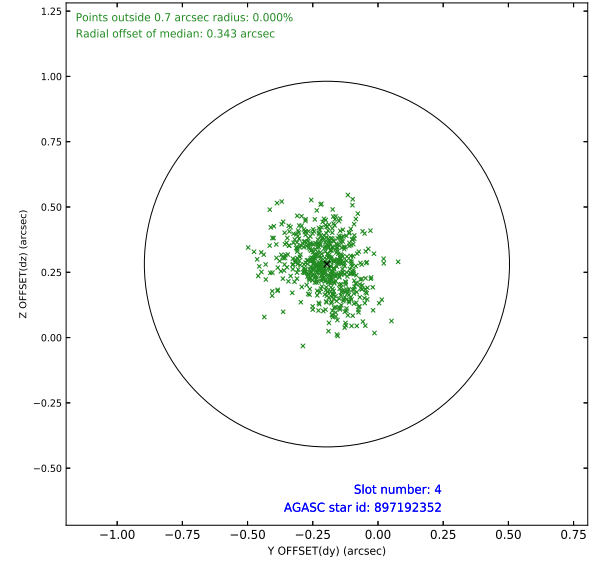
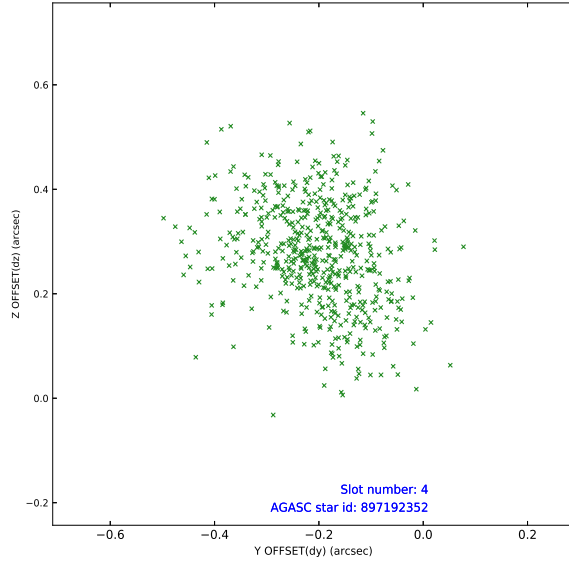


## 2.4 Star Slots

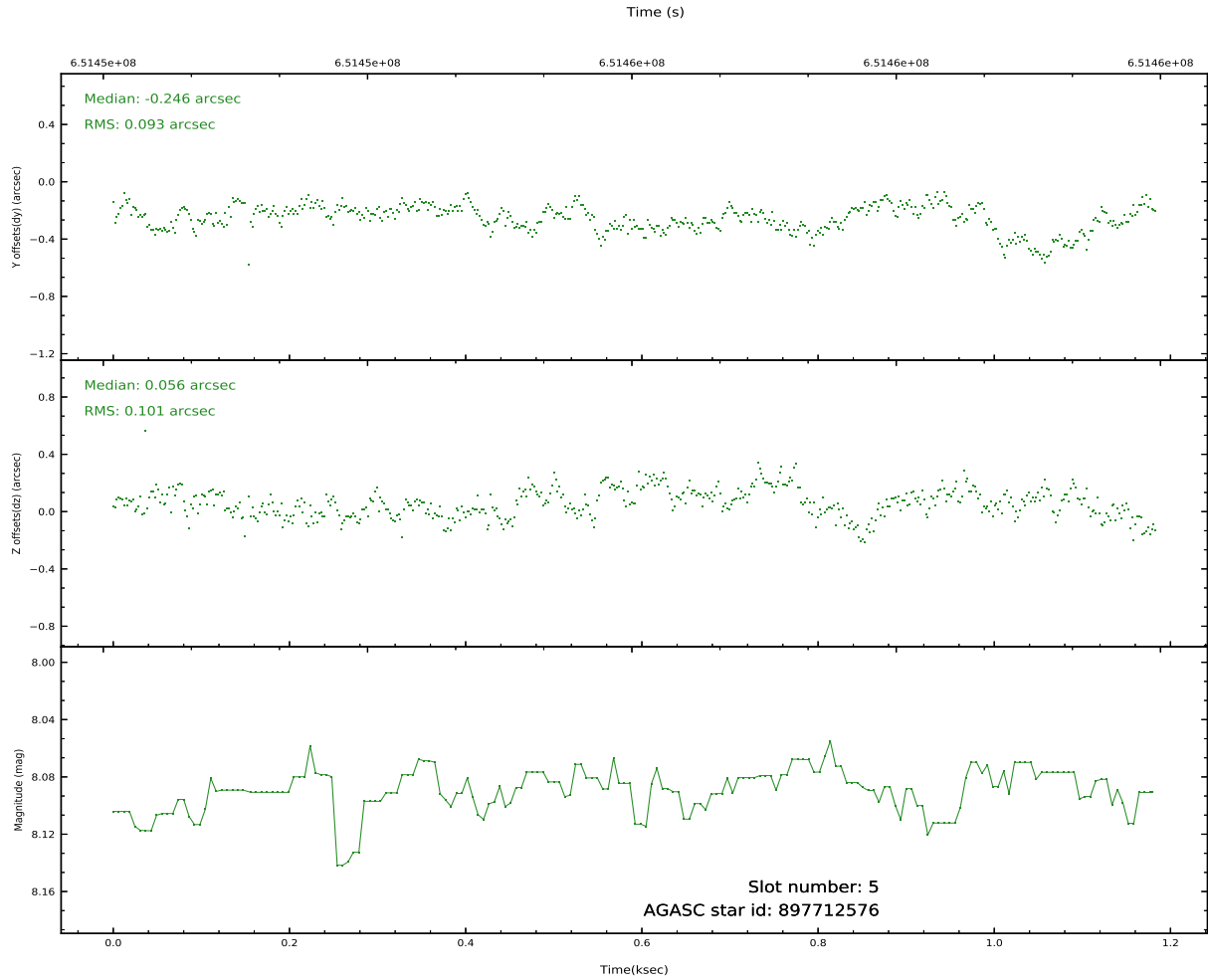
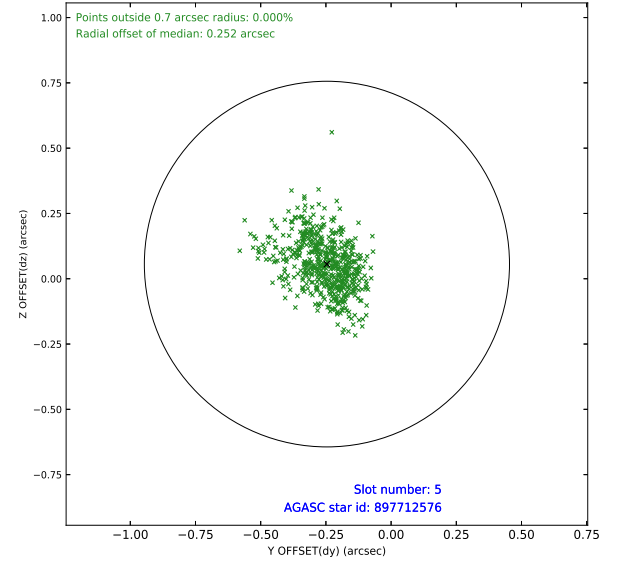
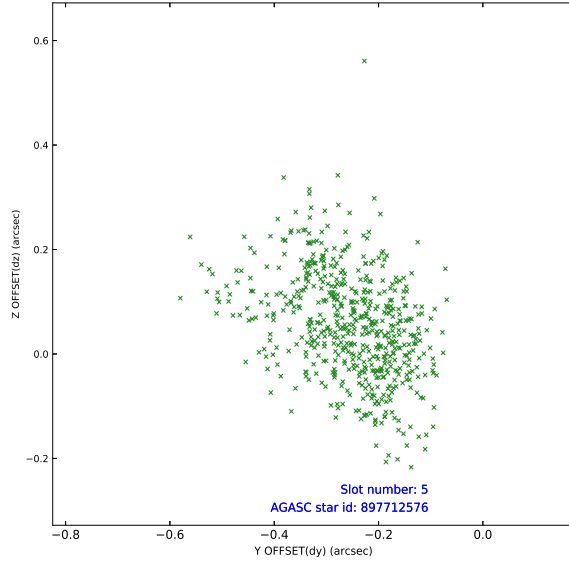
### 2.4.1 Slot 3



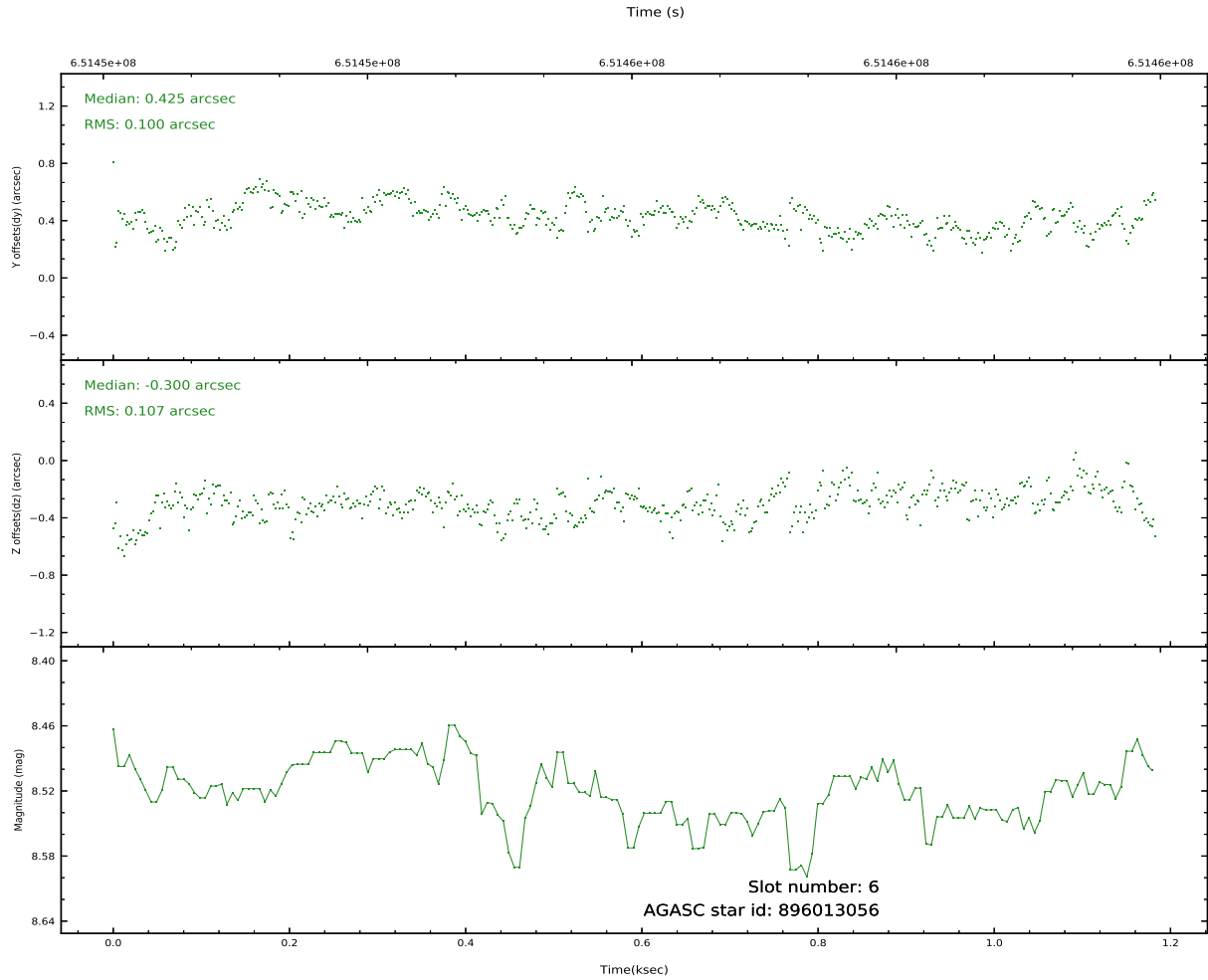
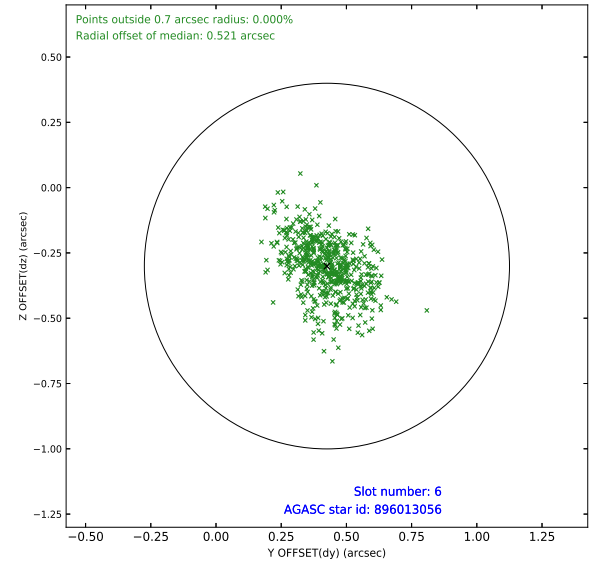
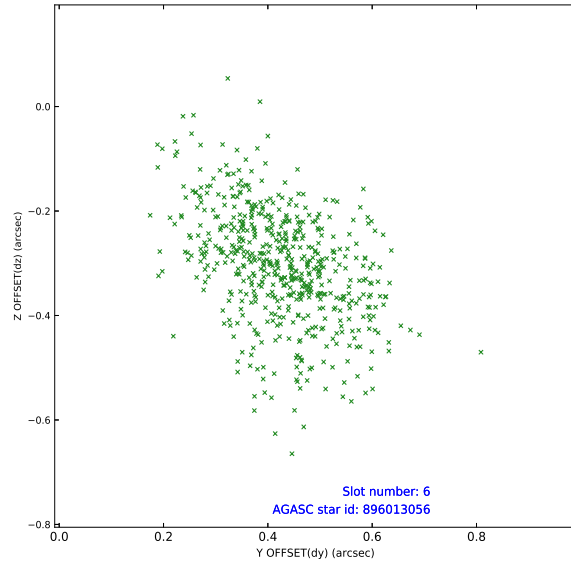
## 2.4.2 Slot 4



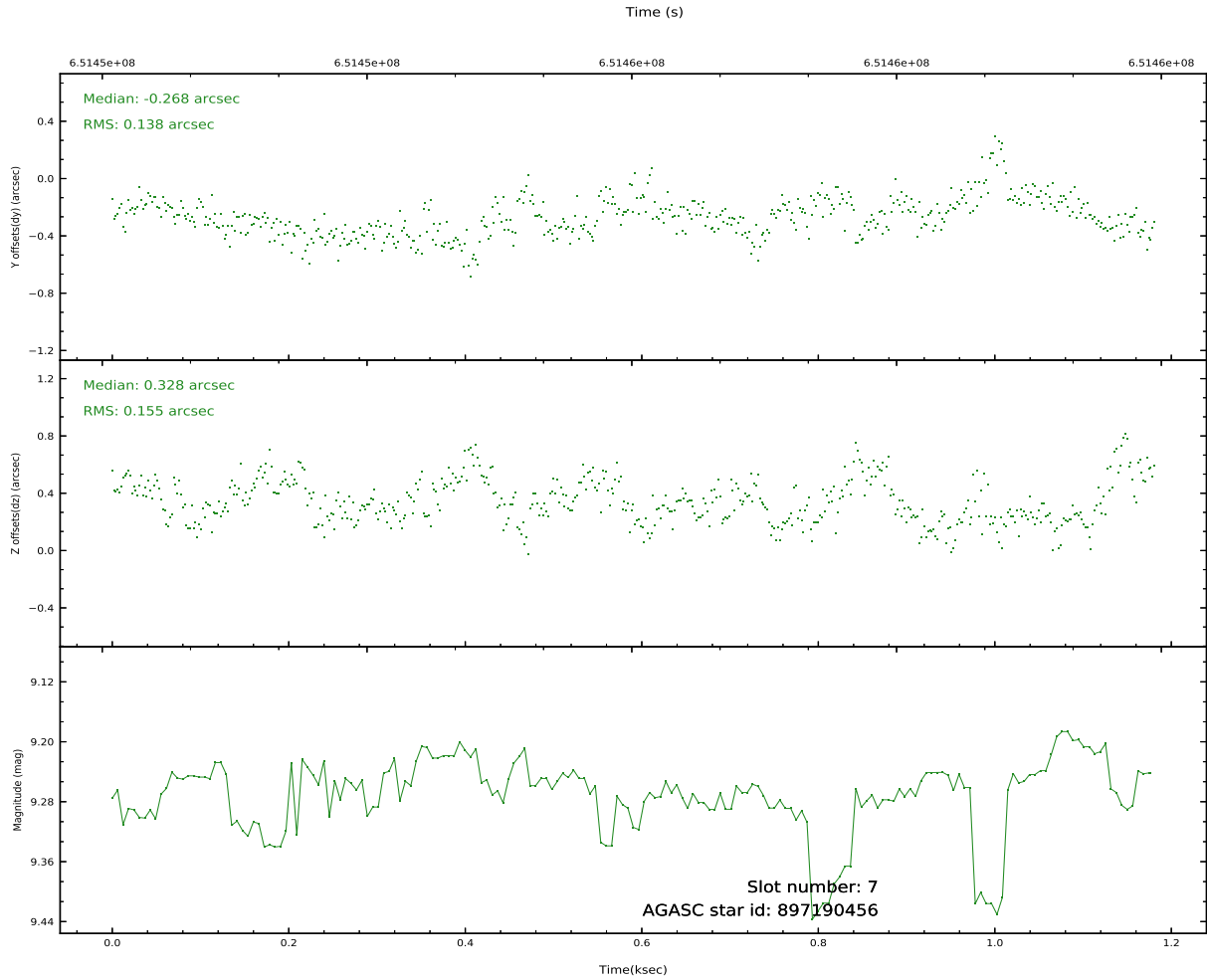
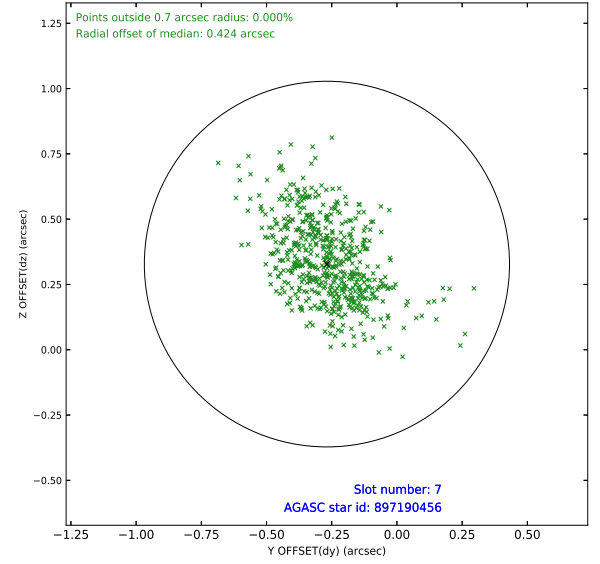
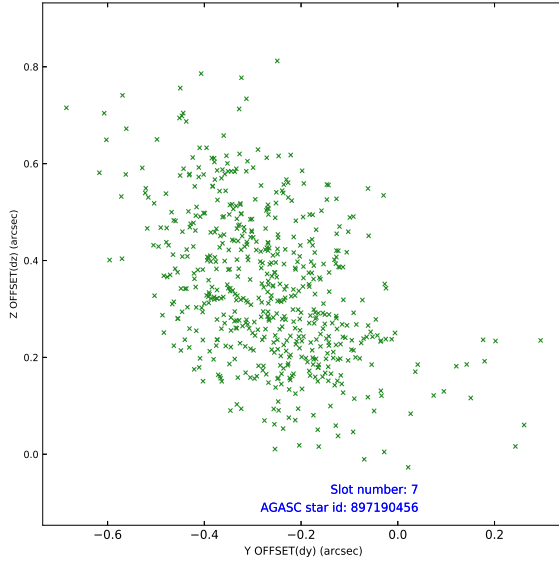
### 2.4.3 Slot 5



## 2.4.4 Slot 6

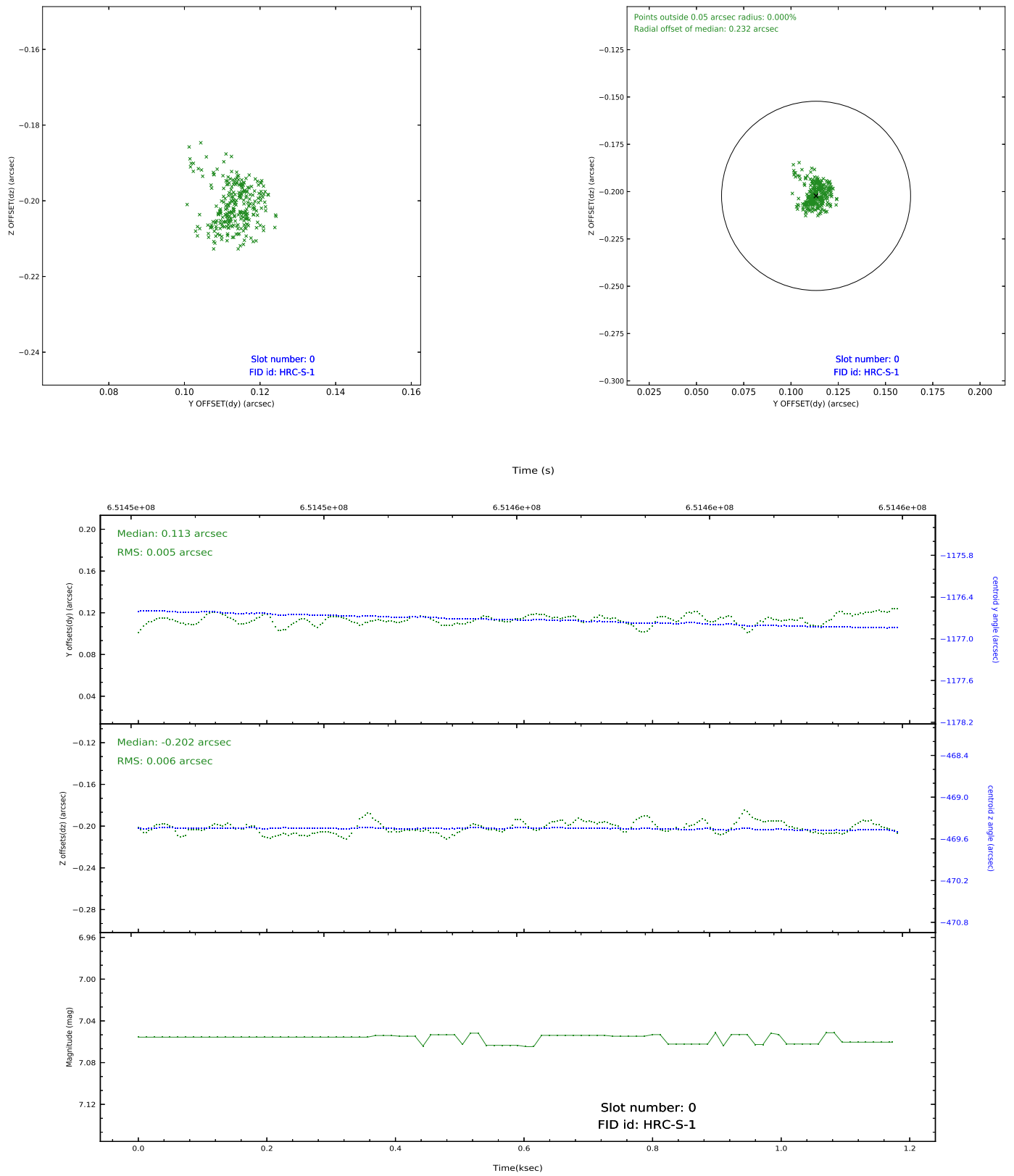


## 2.4.5 Slot 7

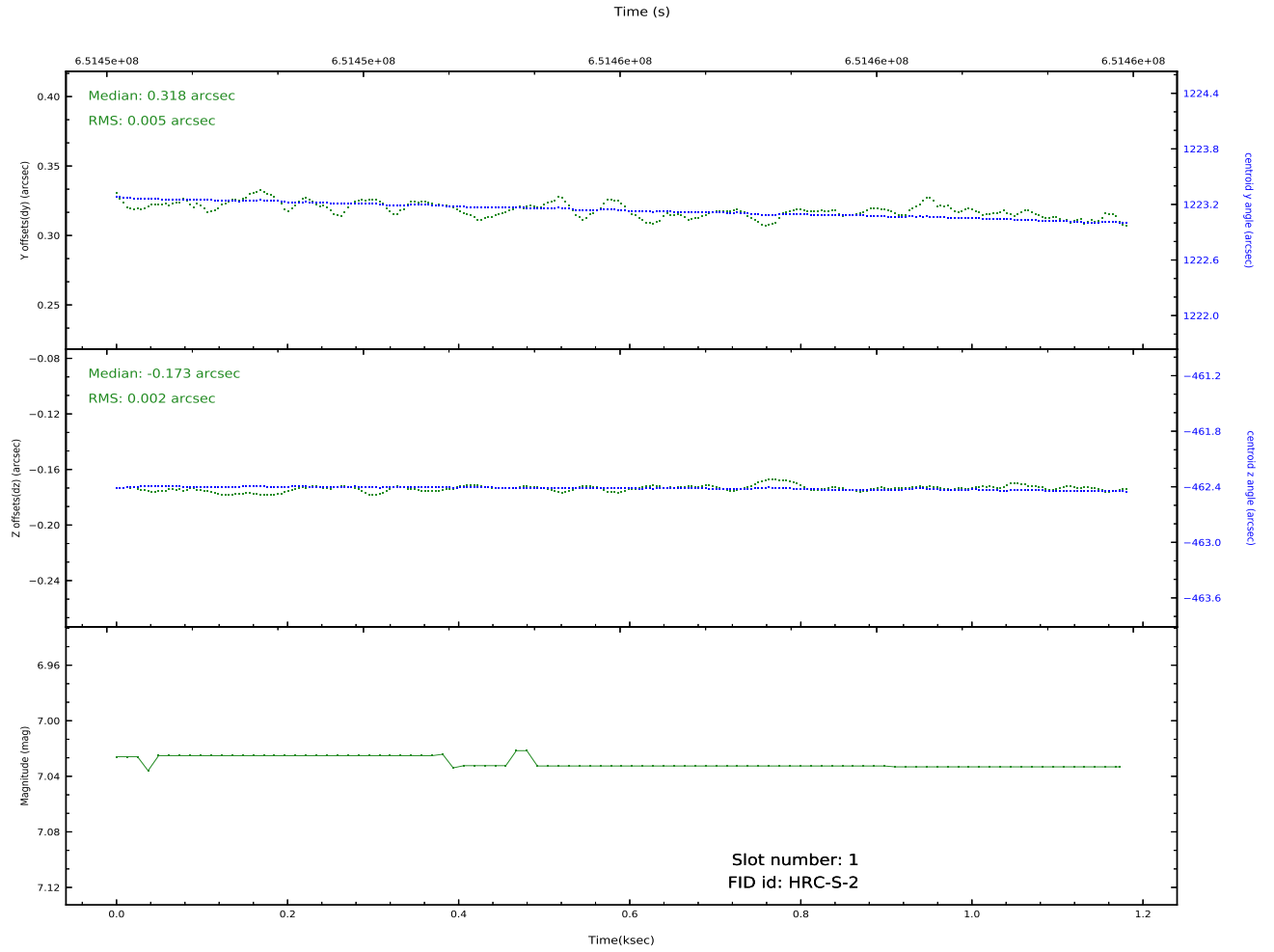
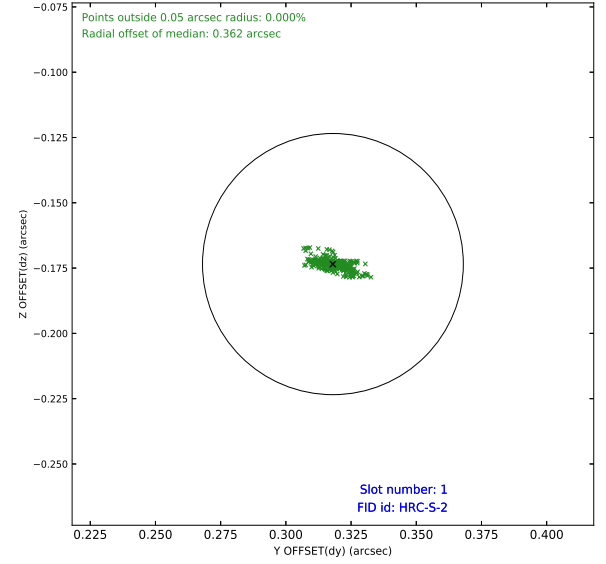
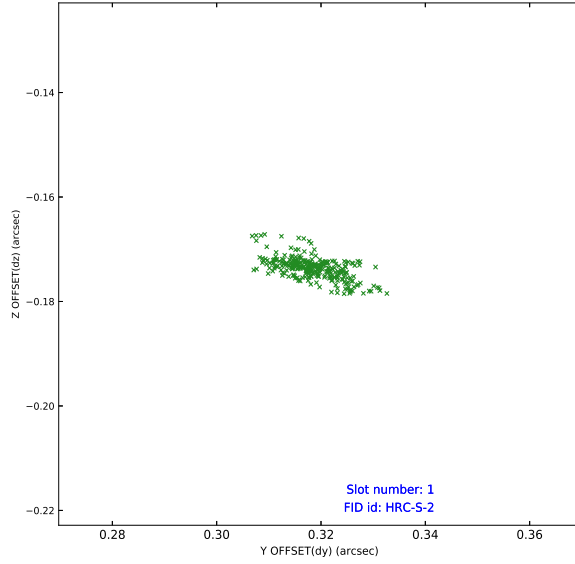


## 2.5 FID Slots

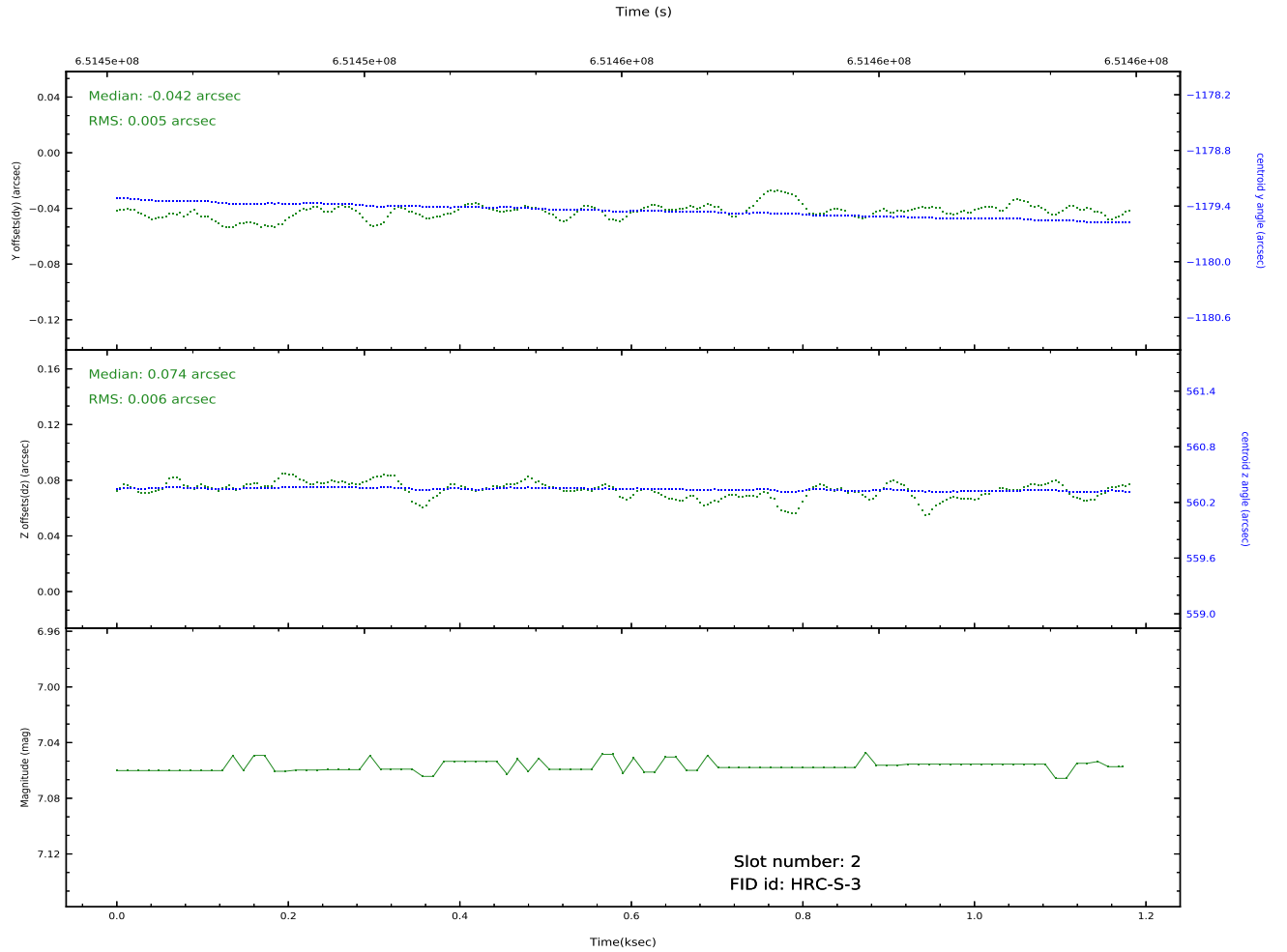
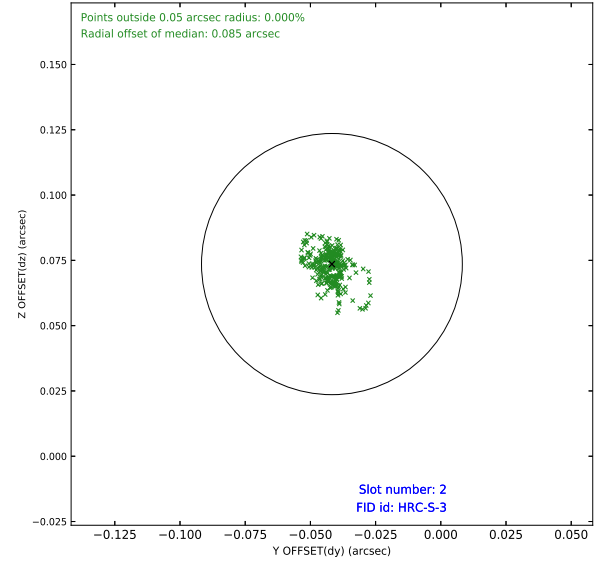
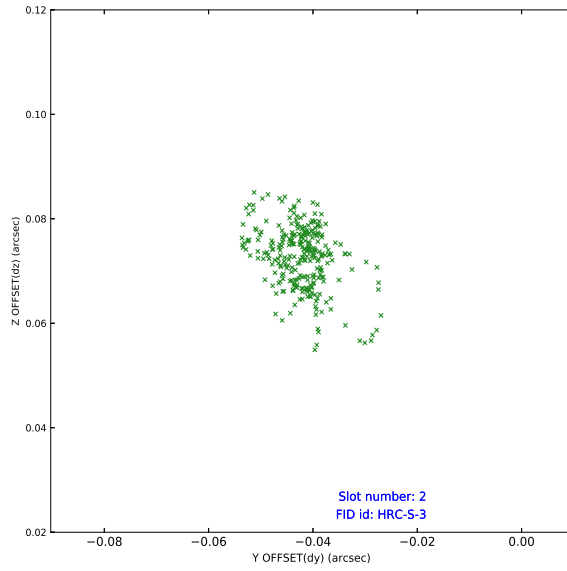
### 2.5.1 Slot 0



## 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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0210281836987

## A.2 Comments

Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values during the first 1800 sec of this observation. The gap in the GTI interval during this time period 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.