

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5442 - L2 Version 4  
Chandra X-Ray Center

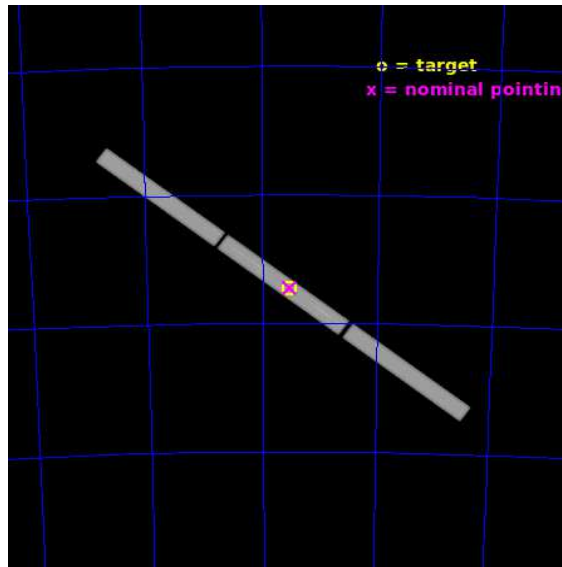
L2 Processing Date : Oct 8 2020

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# 1 Front

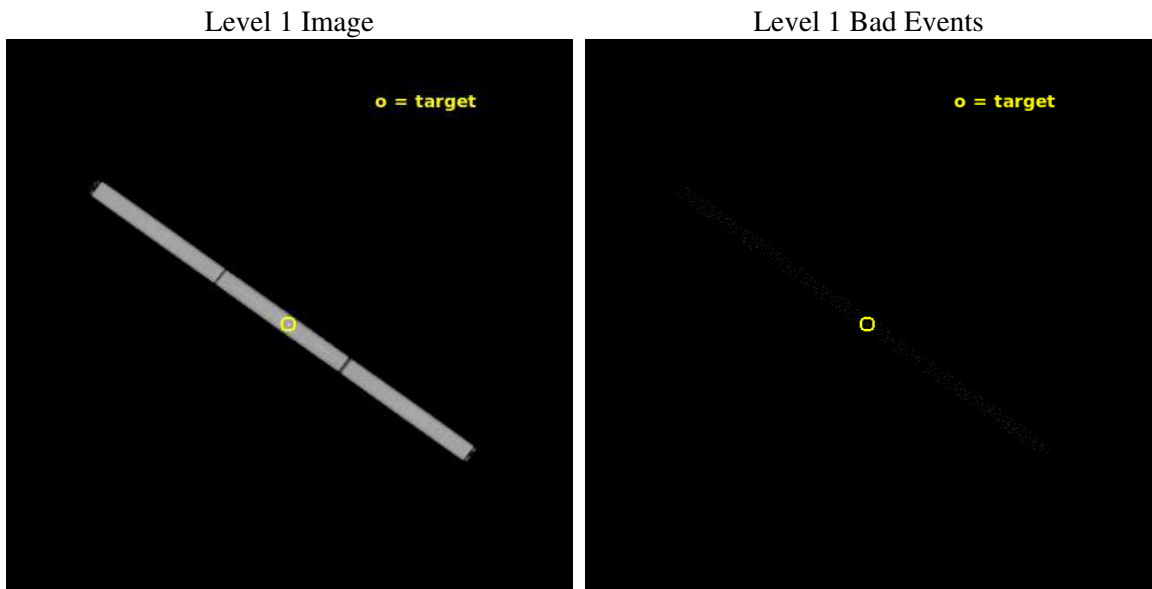
seq_num	300158	Sequence number
obs_id	5442	Observation id
title	Testing Accretion Scenarios at the Eddington Limit	Proposal title
observer	Dr. Vadim Burwitz	Principal investigator
object	RXJ0513.9-6951	Source name
ra_targ	78.461667	Observer's specified target RA [deg]
dec_targ	-69.863056	Observer's specified target Dec [deg]
ra_nom	78.450932380027	Nominal RA [deg]
dec_nom	-69.86241231194	Nominal Dec [deg]
roll_nom	216.51899099228	Nominal Roll [deg]
revision	4	Processing version of data
ontime	25679.582419336	[s]
livetime	25495.258208997	Ontime multiplied by DTCOR
l2events	1486551	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	25500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	25679.582419336	[s]
caldsver	4.9.2	&#160	l1events	2105246	Number of level 1 events
date	2020-10-08T06:42:37	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32669.74, 32748.77)	src1a sky pixel position

### 2.1.3 Events

Level 1 Events

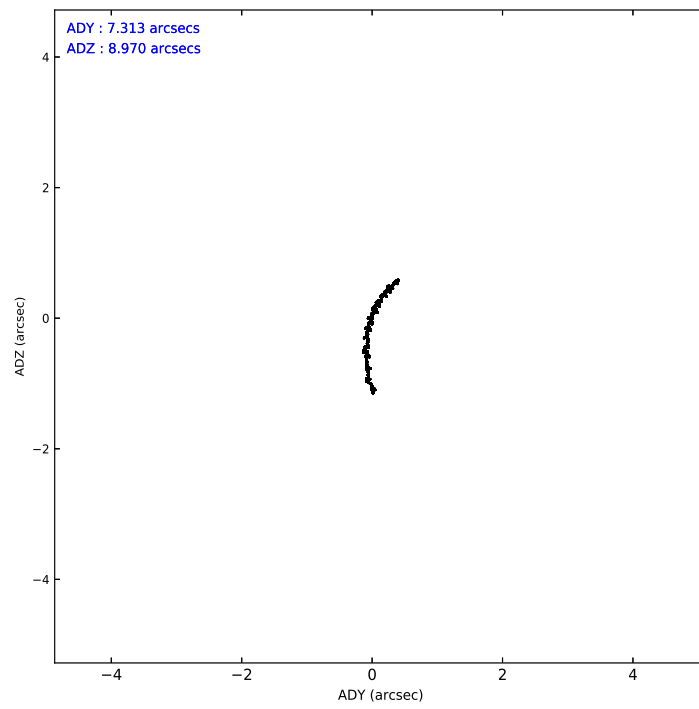
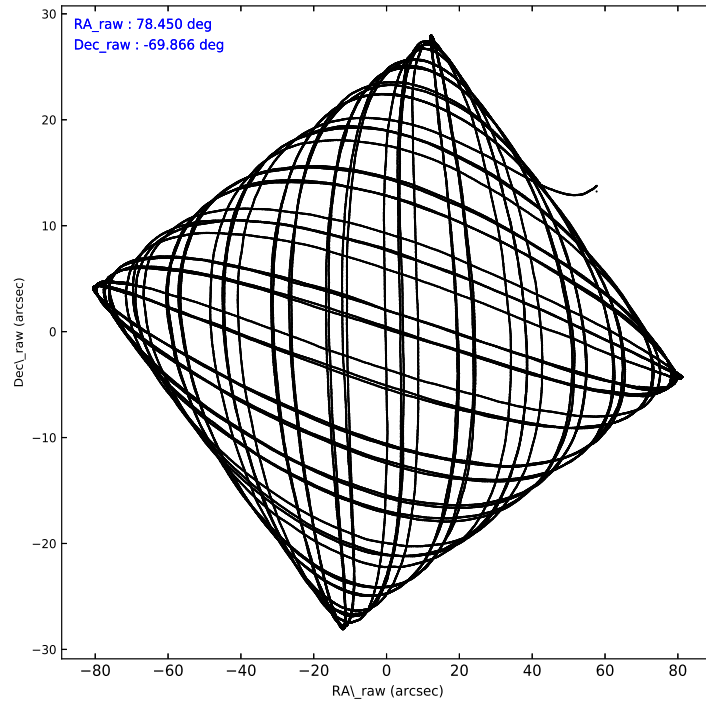
	segment 1	segment 2	segment 3
level 1 events	697835	707468	699943
rejected events	23861	23299	24287
rejected %	3%	3%	3%

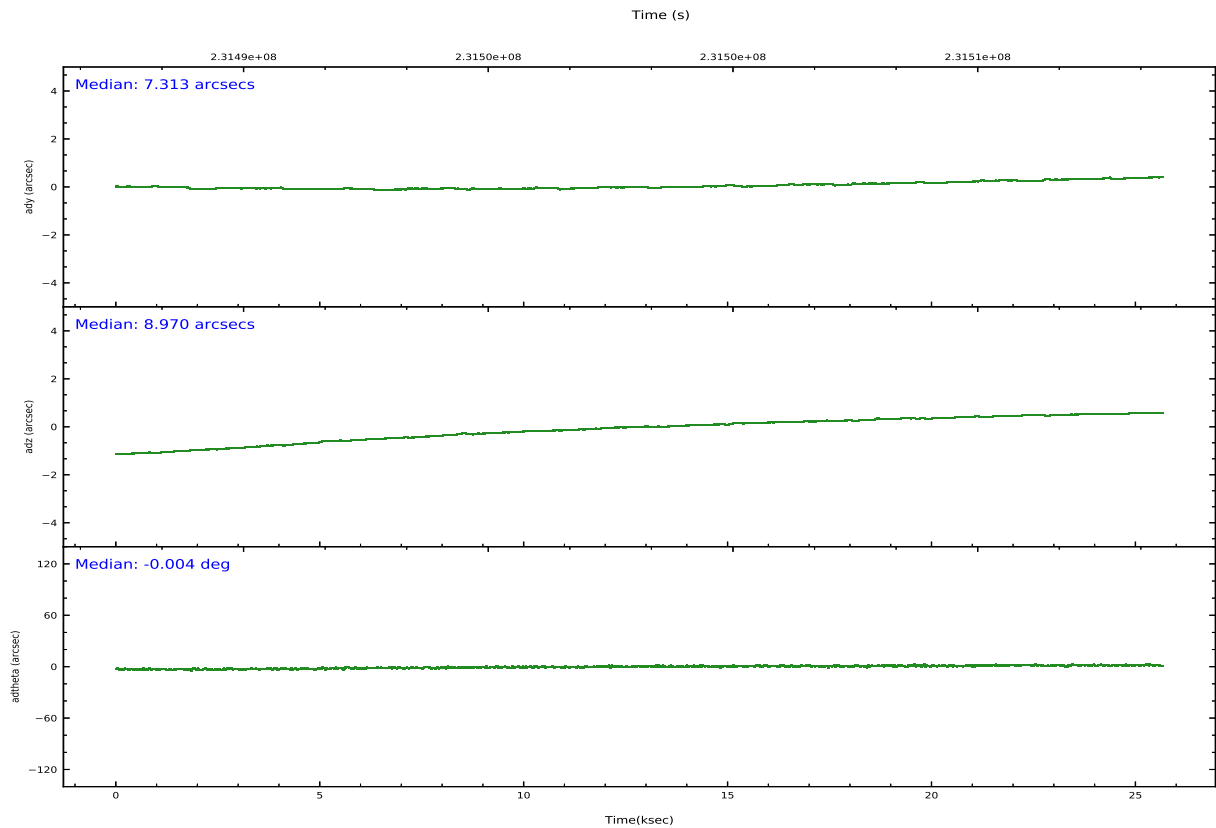
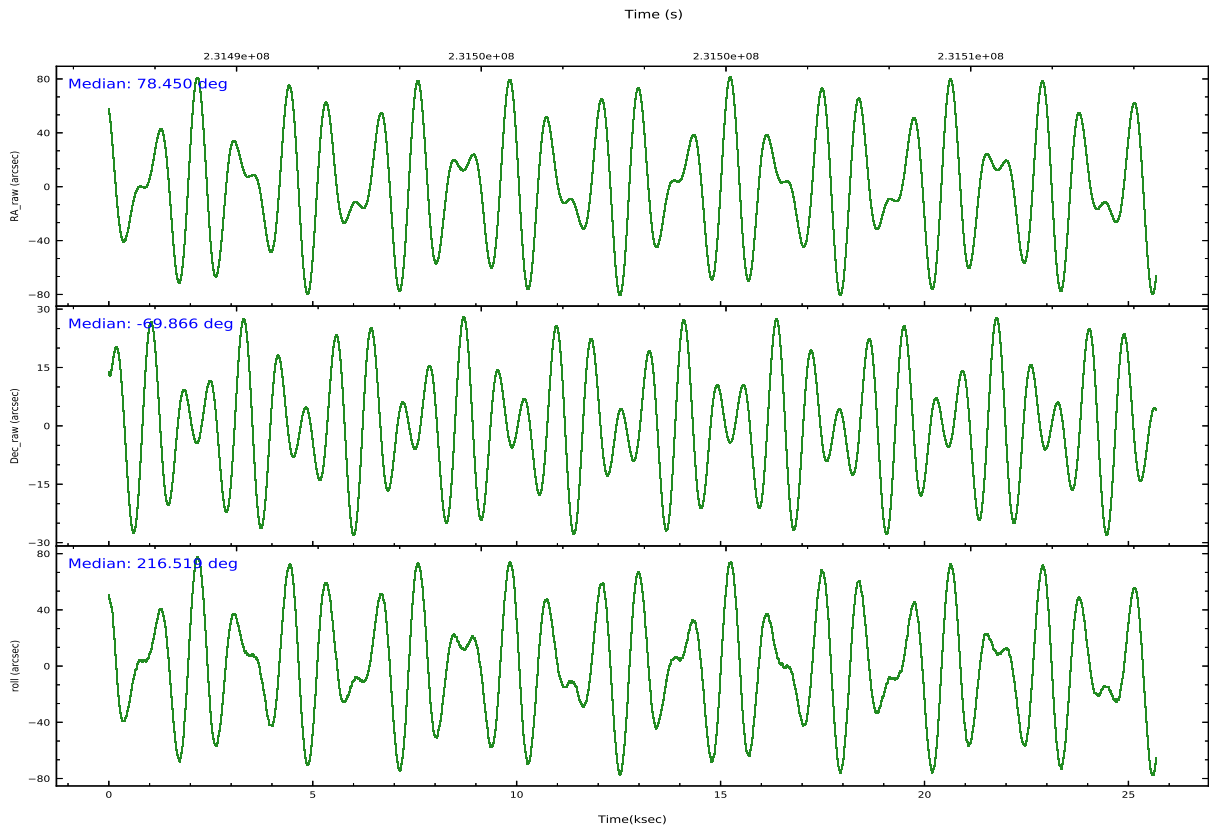
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	78.479760	78.450932380027
[deg] Pointing Dec	-69.838965	-69.86241231194001
[deg] Pointing Roll	216.482658	216.51899099228
[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)	231487046.184000	231486028.50291
Observation start date	2005-05-03T05:56:22	2005-05-03T05:40:28
[s] Observation end time (MET)	231512546.184000	231513532.84166
Observation end date	2005-05-03T13:01:22	2005-05-03T13:18:52

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

## 2.3 Aspect





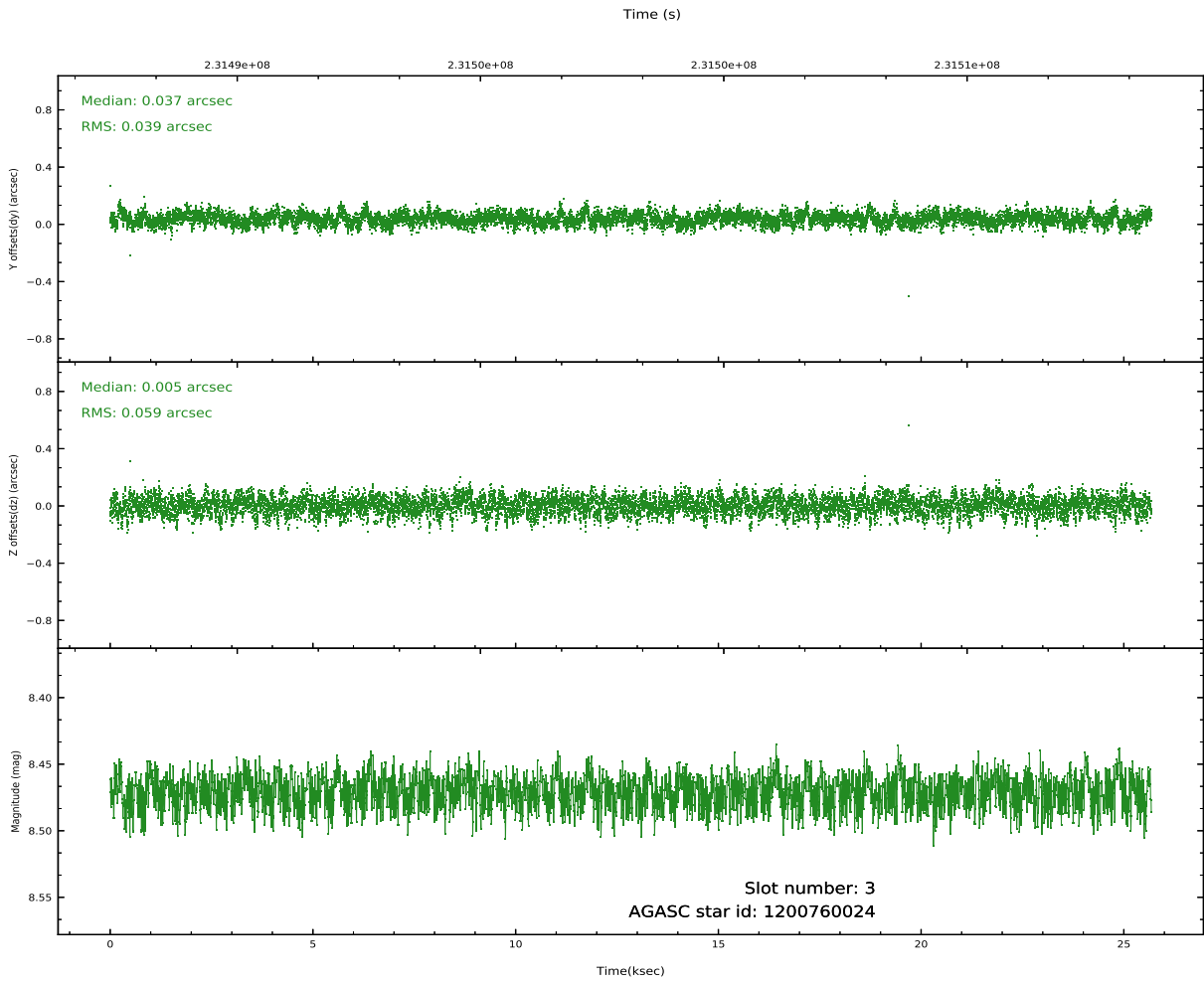
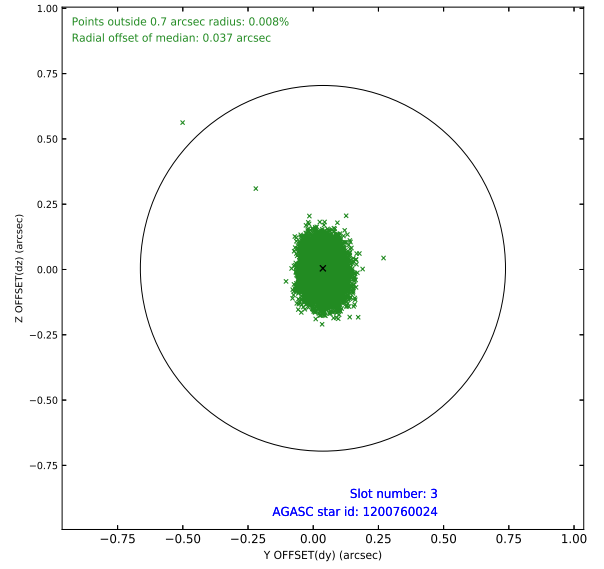
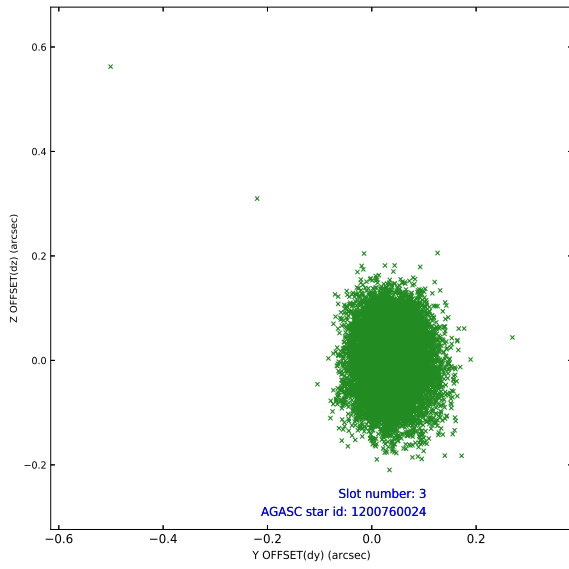
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.03	6262	1.000	0.101	-0.170	0.027	0.044	0.000000	0.000000	-1161.55	-457
1	FID		HRC-S-2	7.02	6264	1.000	0.195	-0.116	0.005	0.009	0.000000	0.000000	1238.04	-450
2	FID		HRC-S-3	7.04	6264	1.000	0.094	-0.016	0.028	0.047	0.000000	0.000000	-1164.10	572
3	GUIDE	used	1200760024	8.47	12524	1.000	0.037	0.005	0.074	0.122	77.625244	-69.320410	-231.50	-2140
4	GUIDE	used	1201407648	9.15	12525	1.000	0.016	0.031	0.095	0.157	78.636737	-70.585025	1446.06	2271
5	GUIDE	used	1200888464	9.48	12521	1.000	-0.076	0.020	0.113	0.184	78.430687	-69.005633	-1732.34	-2449
6	GUIDE	used	1201280072	8.54	12520	1.000	0.067	-0.008	0.059	0.097	77.357470	-69.714246	866.90	-1183
7	GUIDE	used	1201411776	8.86	12525	1.000	-0.042	-0.044	0.106	0.162	79.010603	-70.456328	808.95	2169

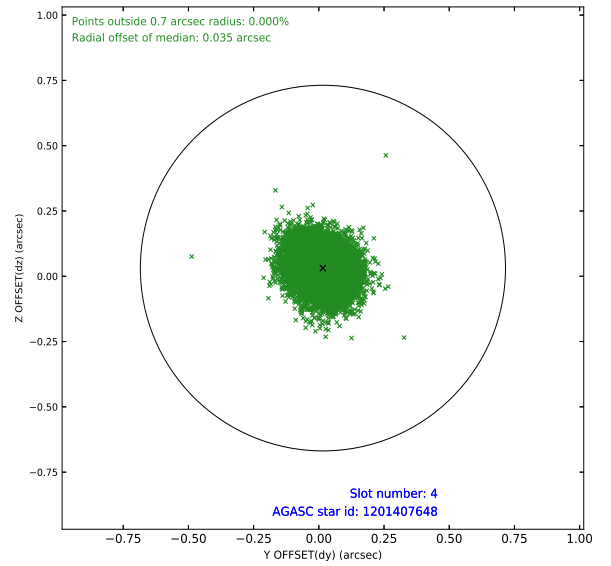
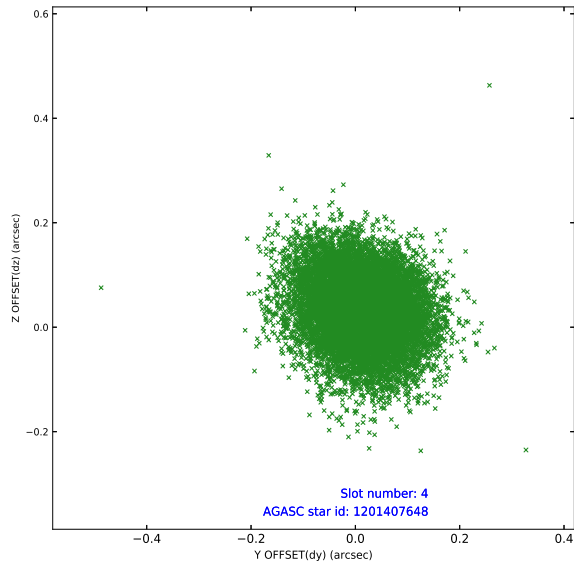
∞

## 2.4 Star Slots

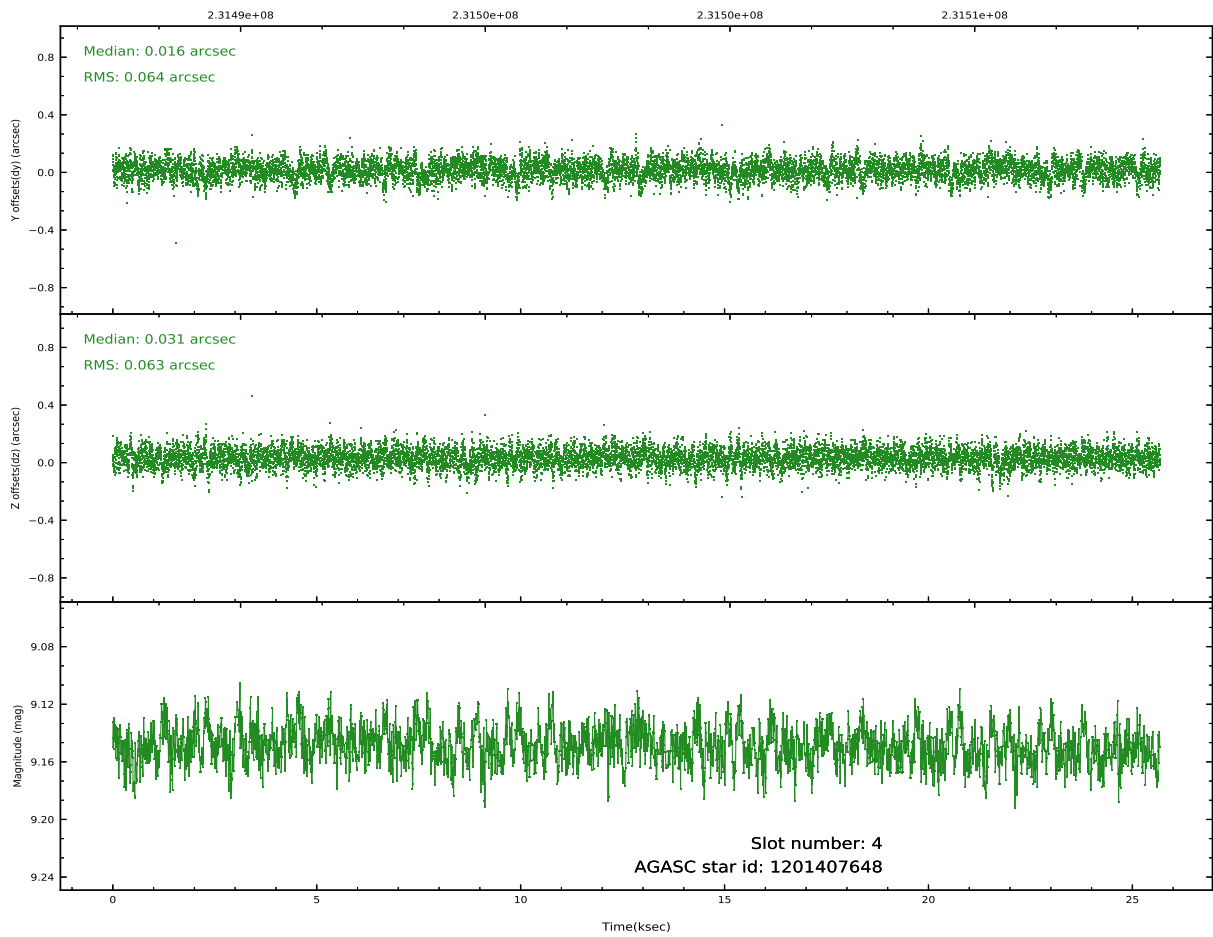
### 2.4.1 Slot 3



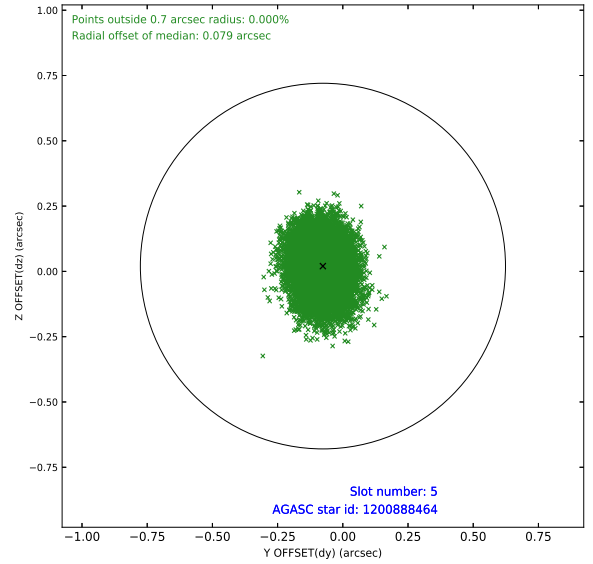
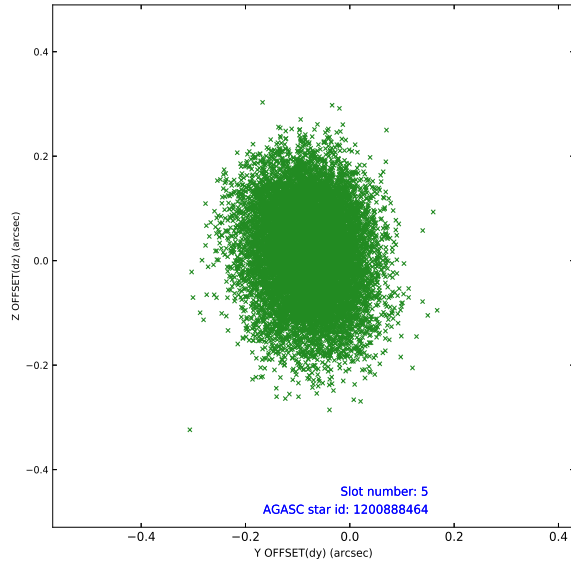
## 2.4.2 Slot 4



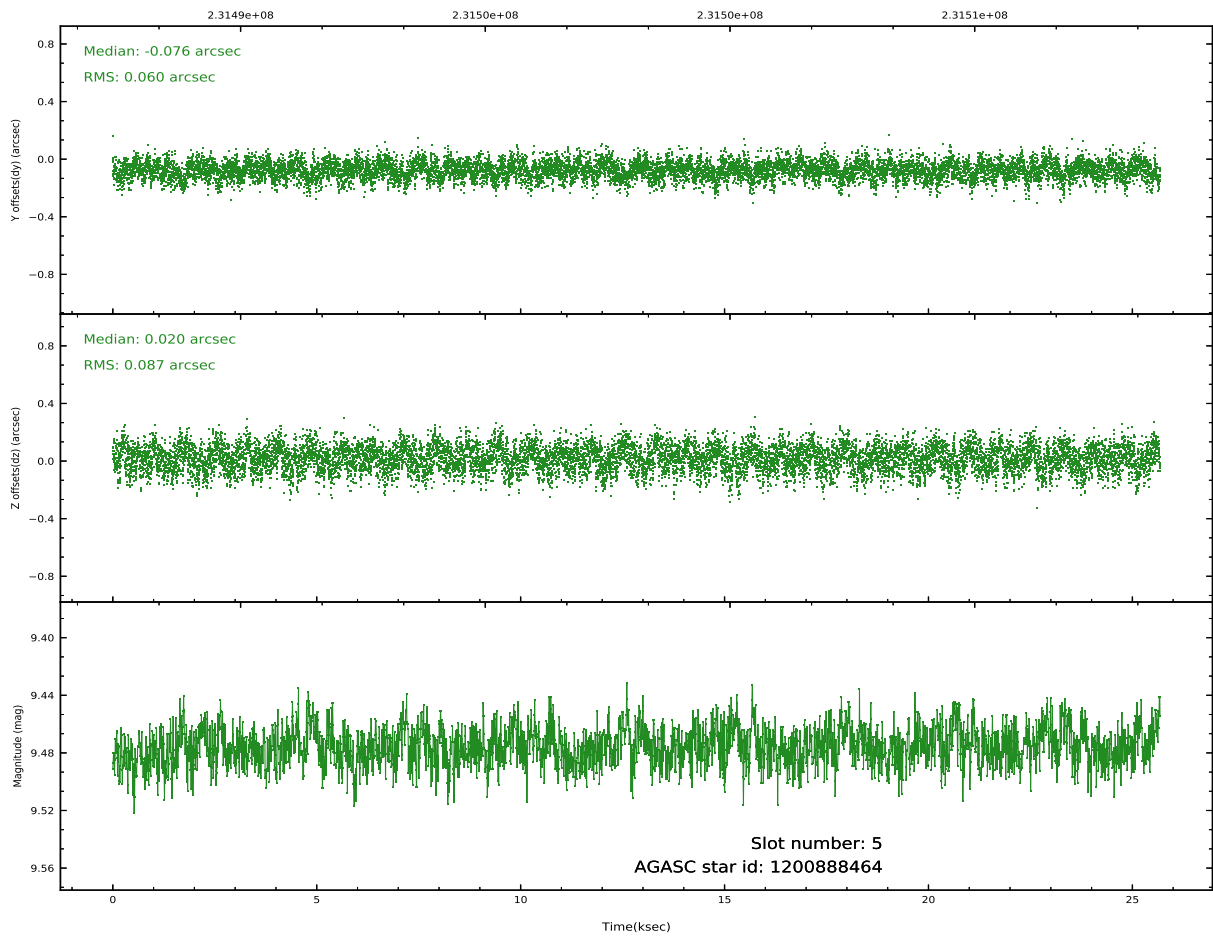
Time (s)



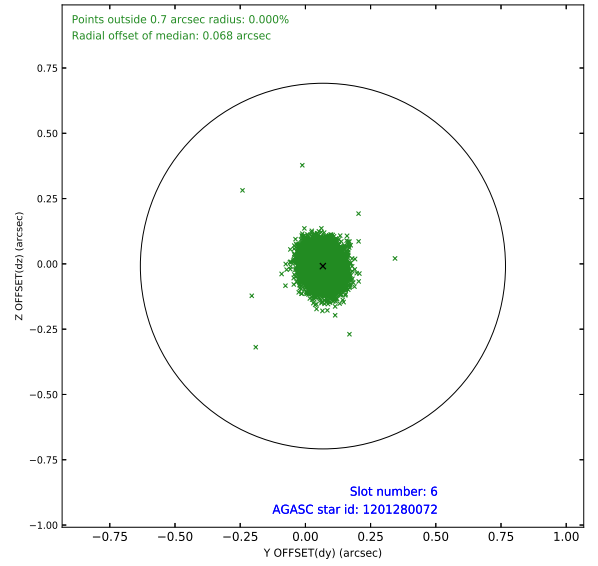
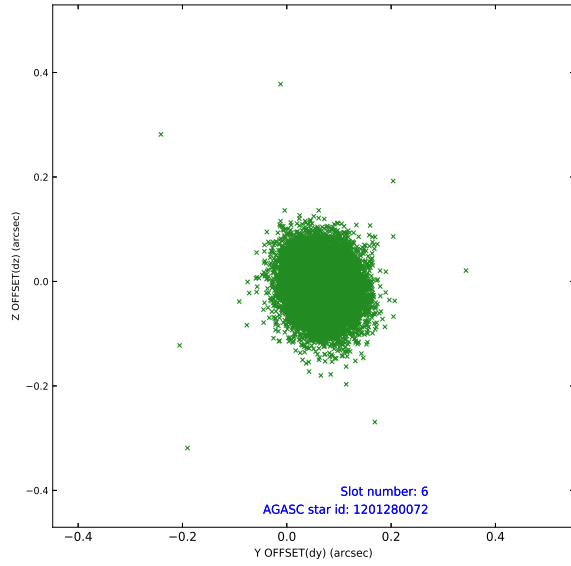
### 2.4.3 Slot 5



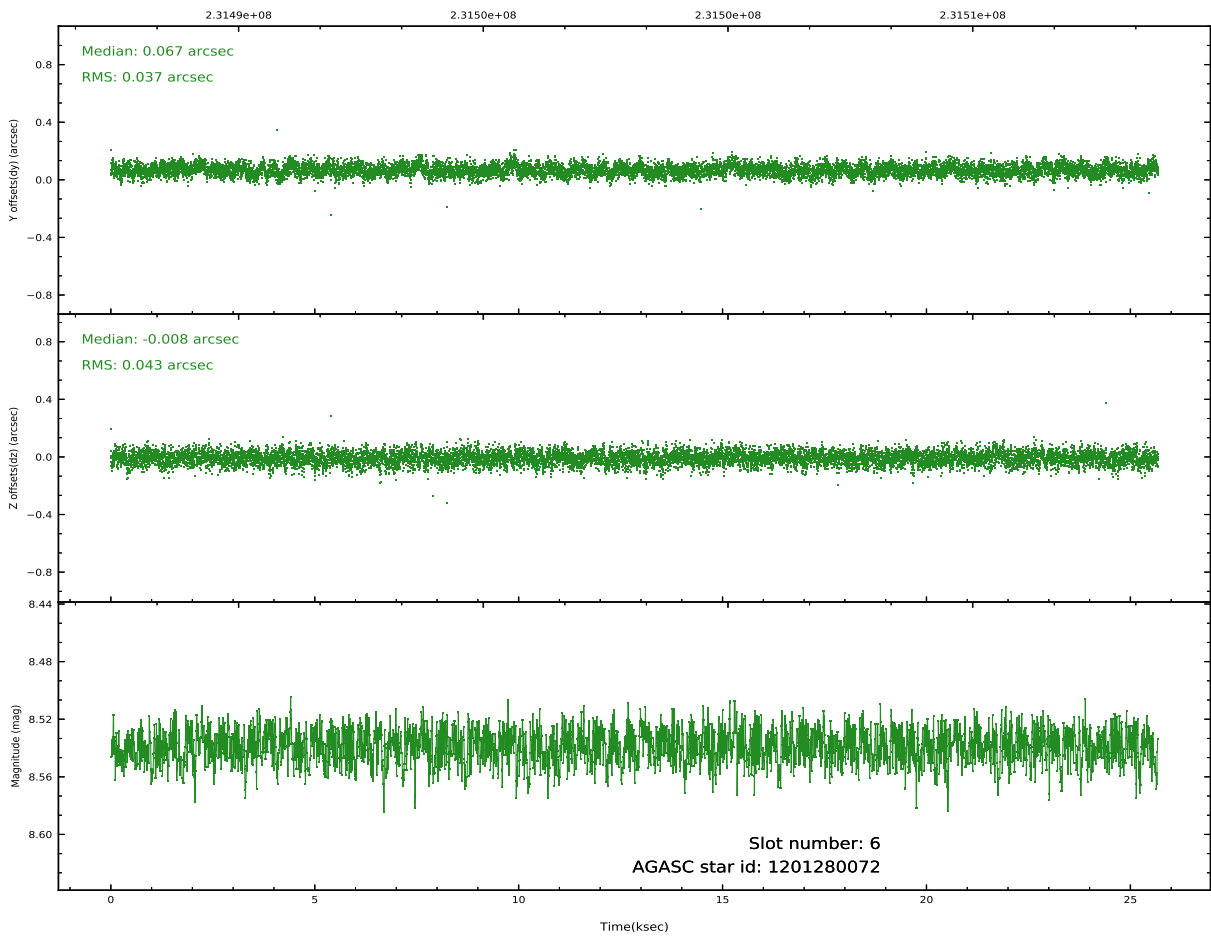
Time (s)



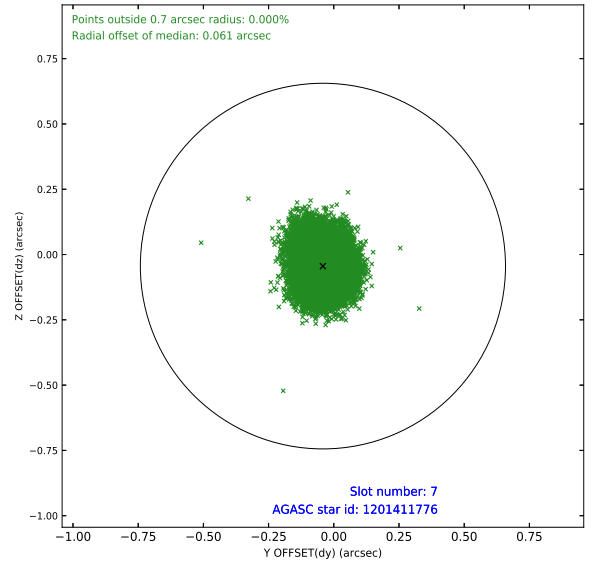
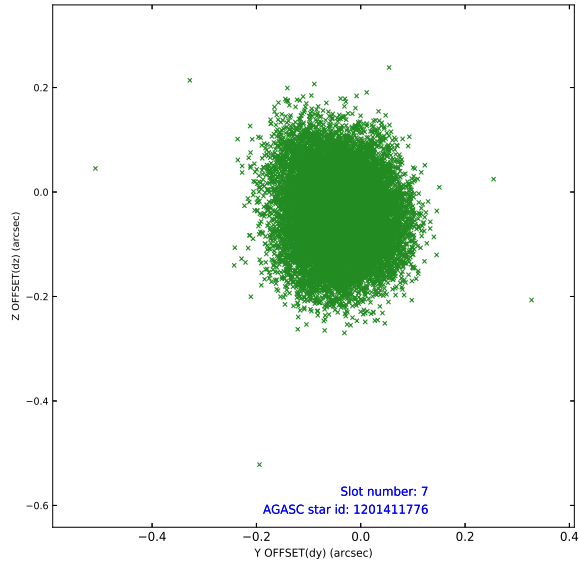
## 2.4.4 Slot 6



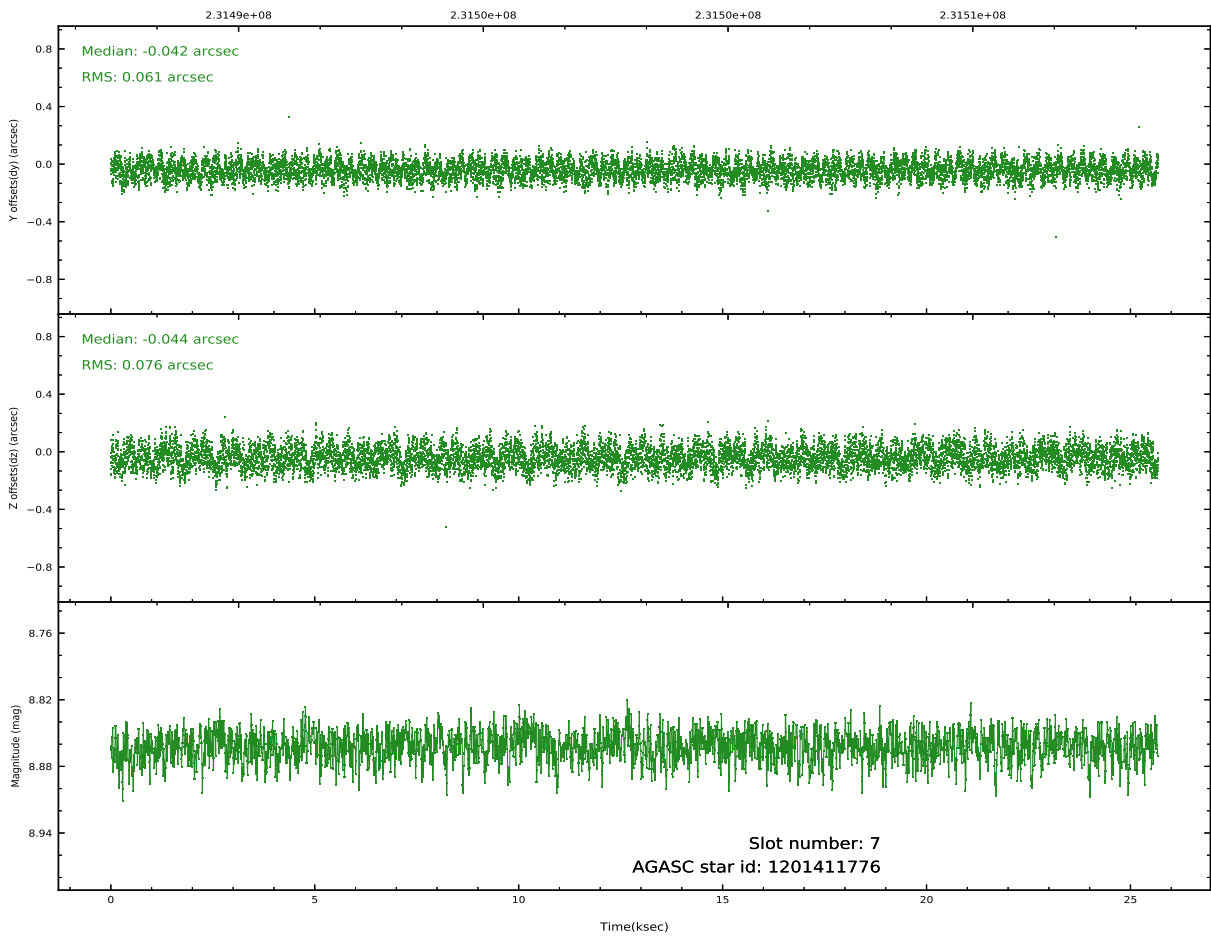
Time (s)



## 2.4.5 Slot 7

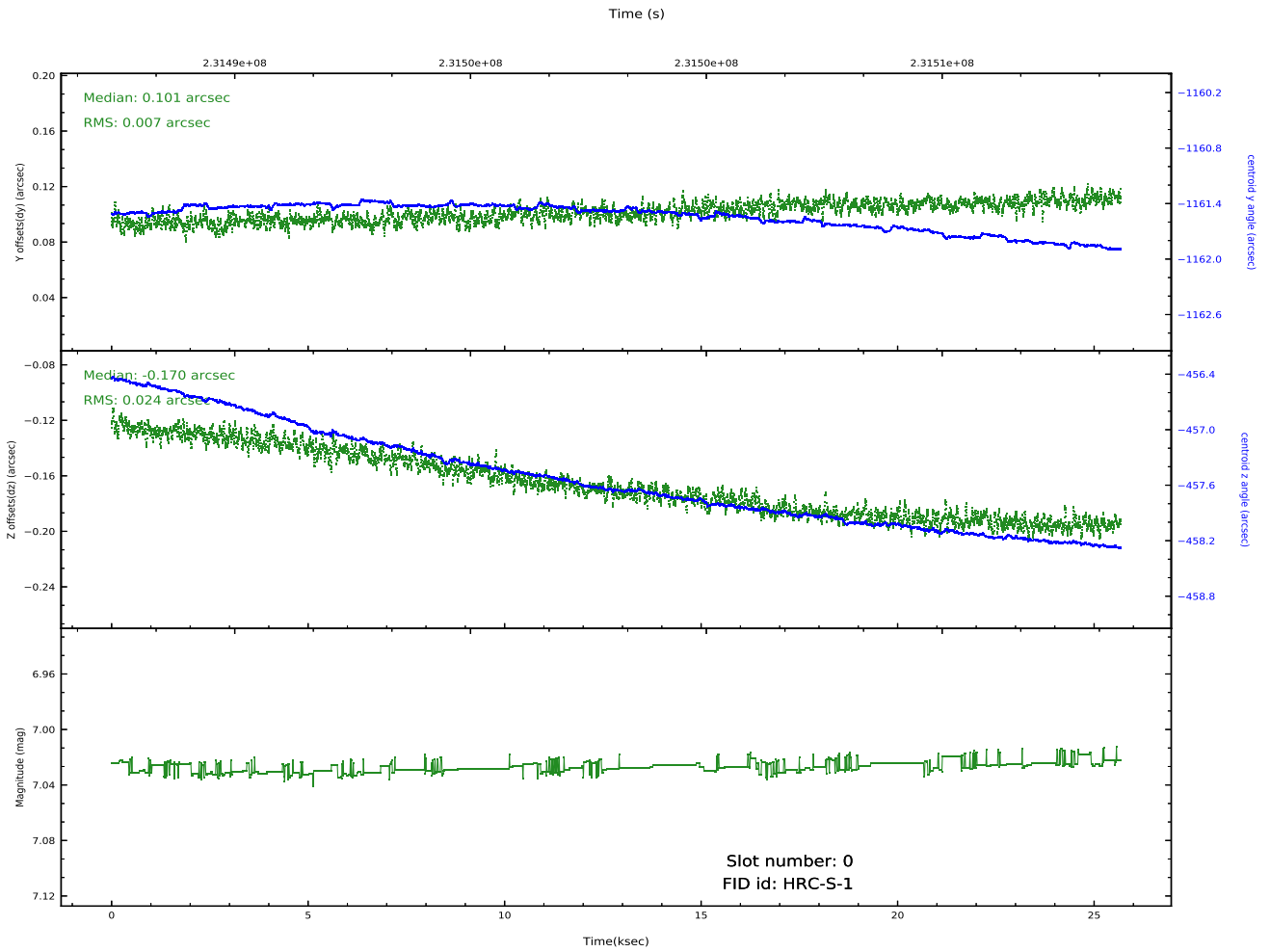
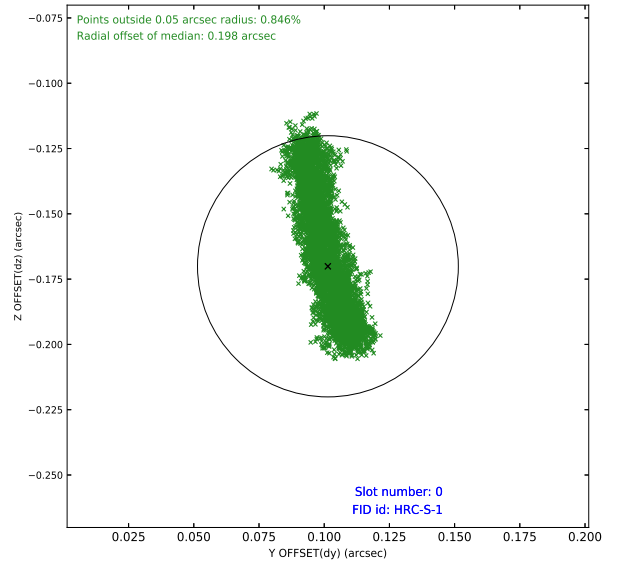
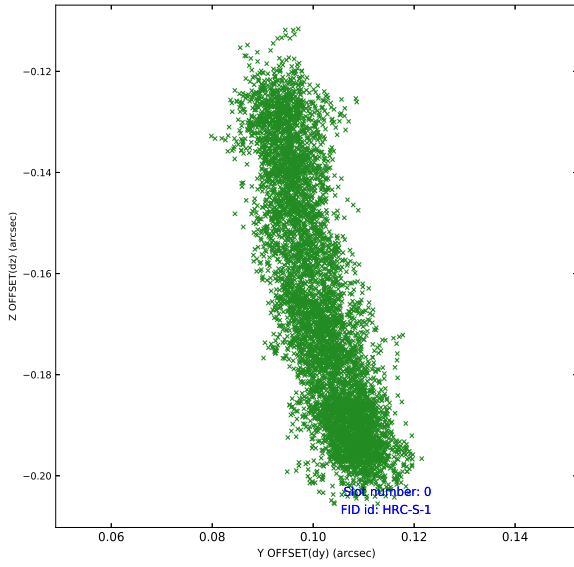


Time (s)

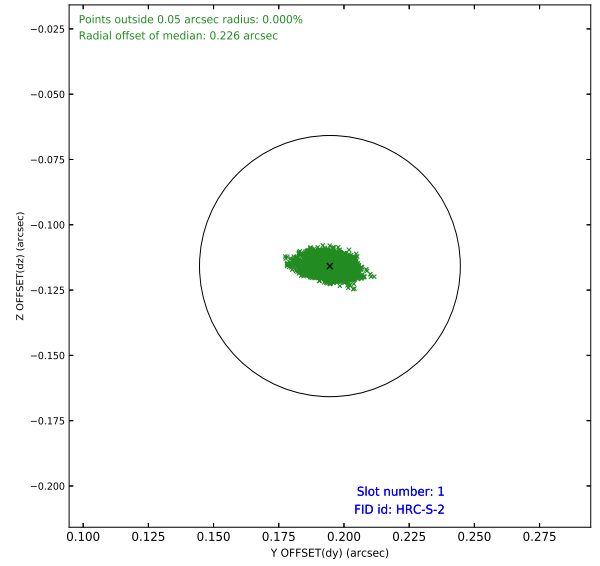
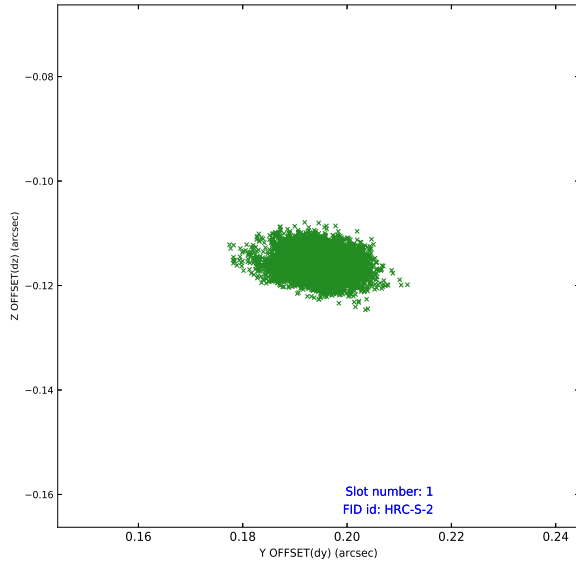


## 2.5 FID Slots

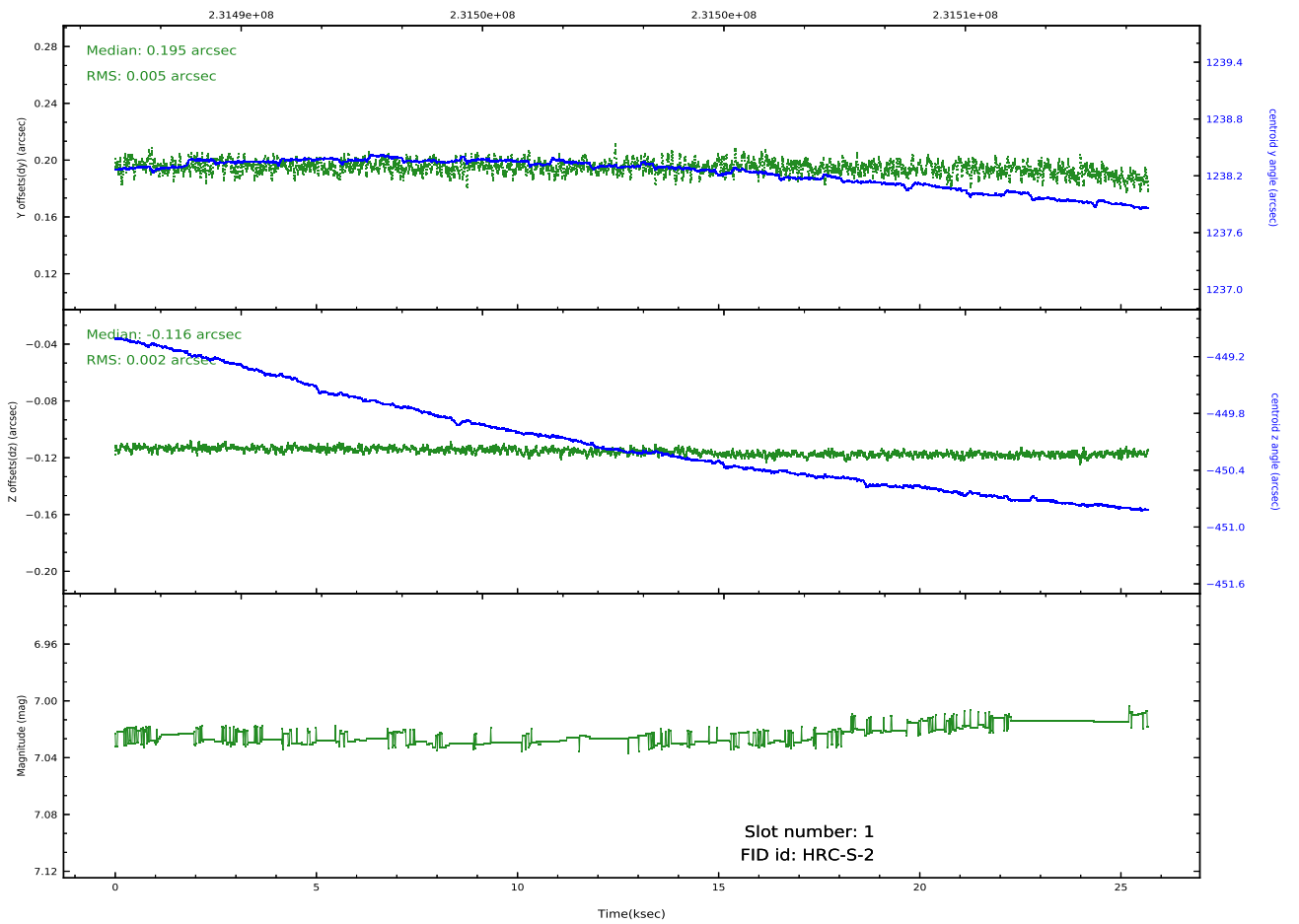
### 2.5.1 Slot 0



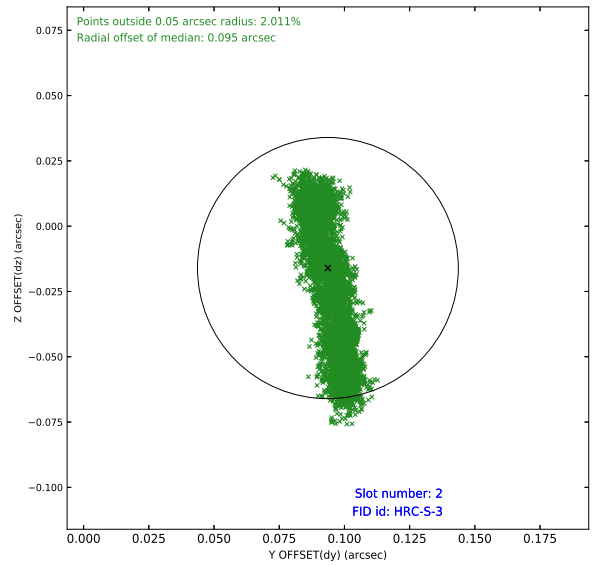
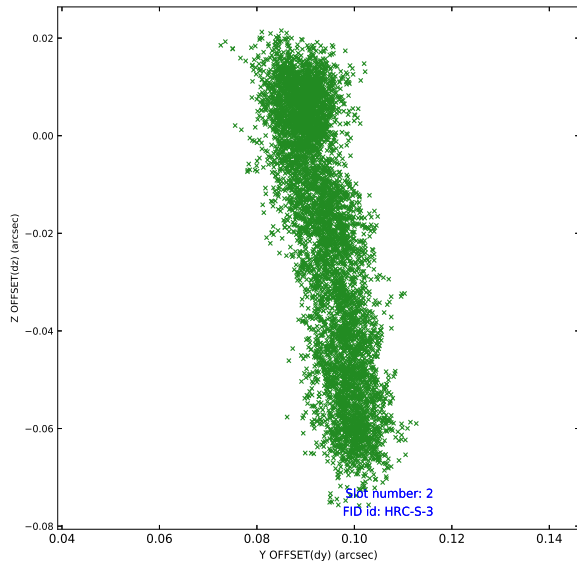
## 2.5.2 Slot 1



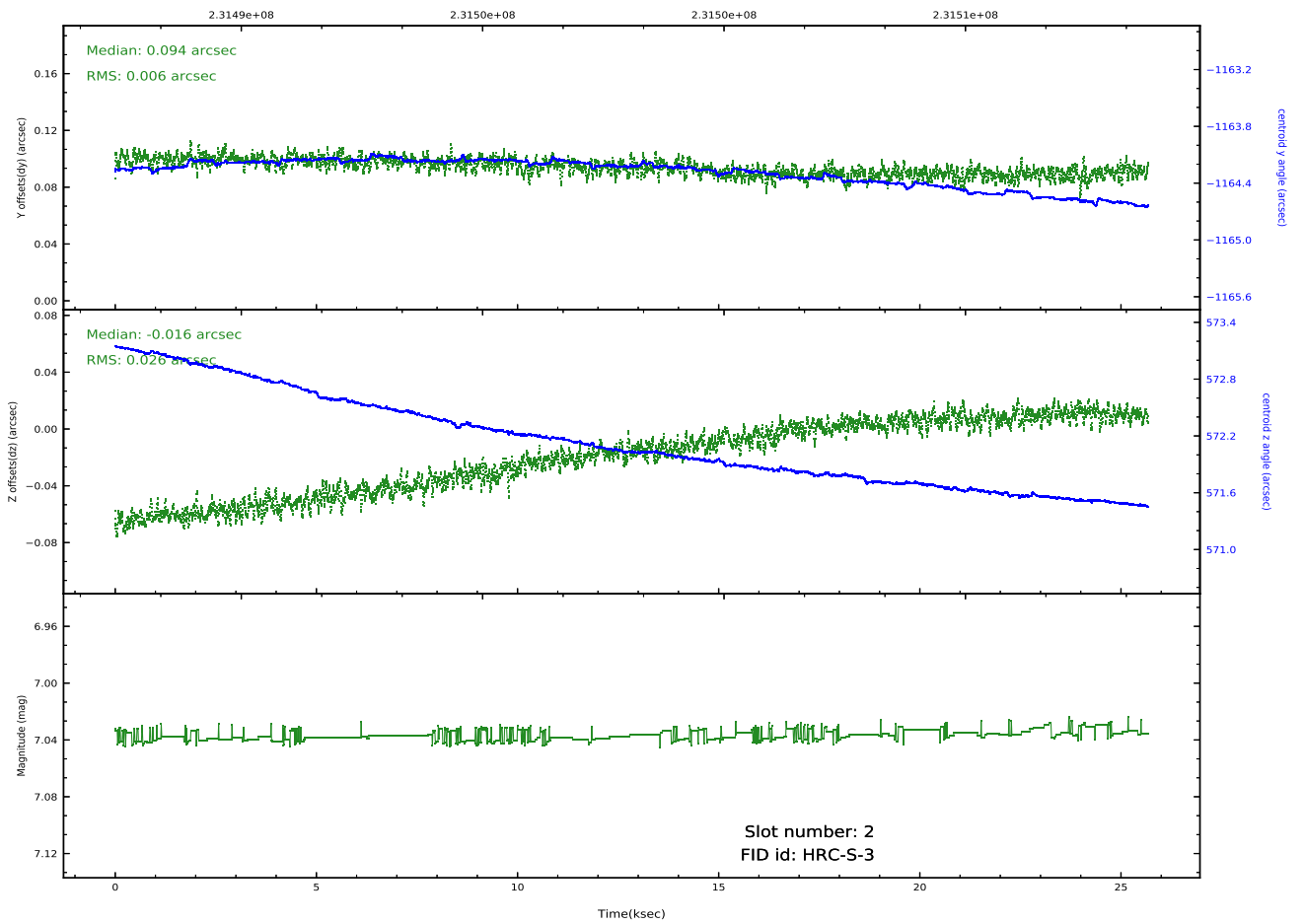
Time (s)



### 2.5.3 Slot 2

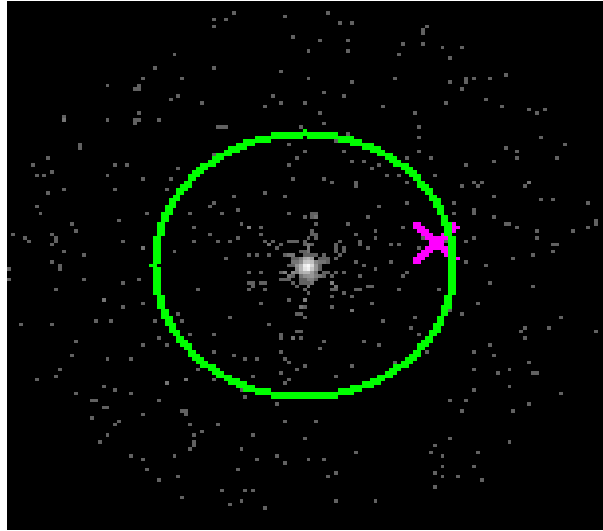


Time (s)

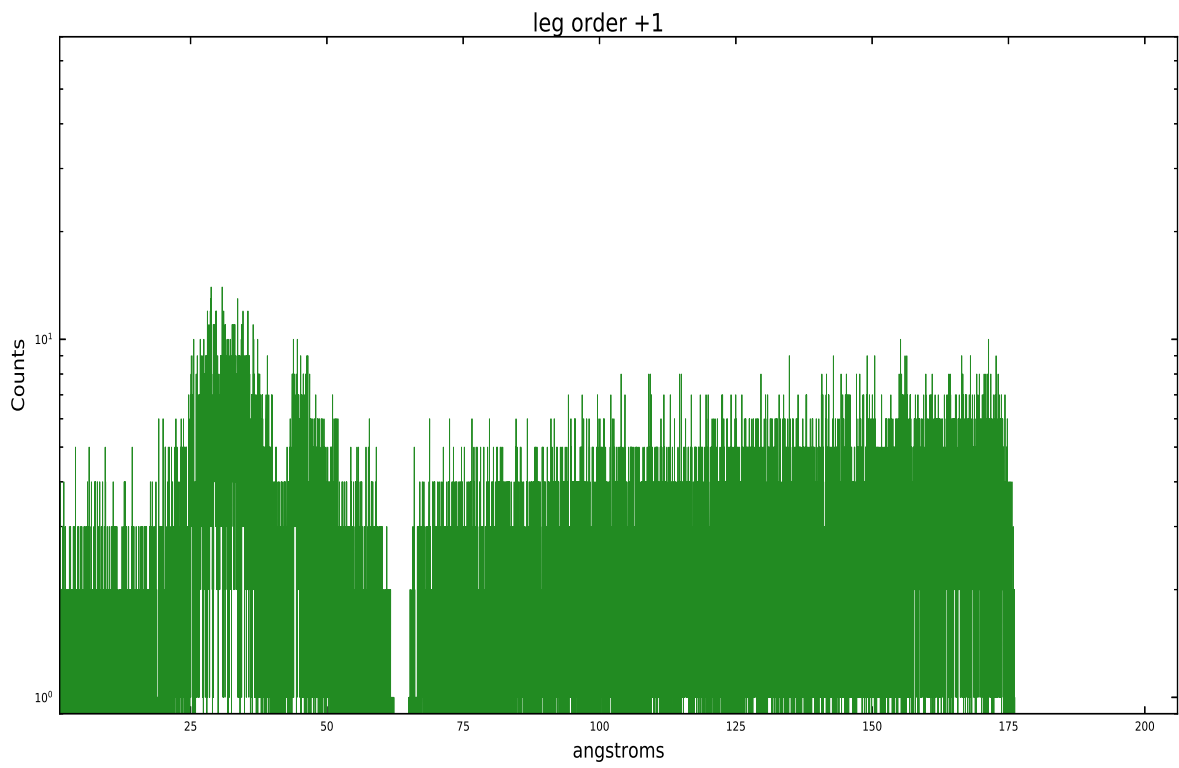
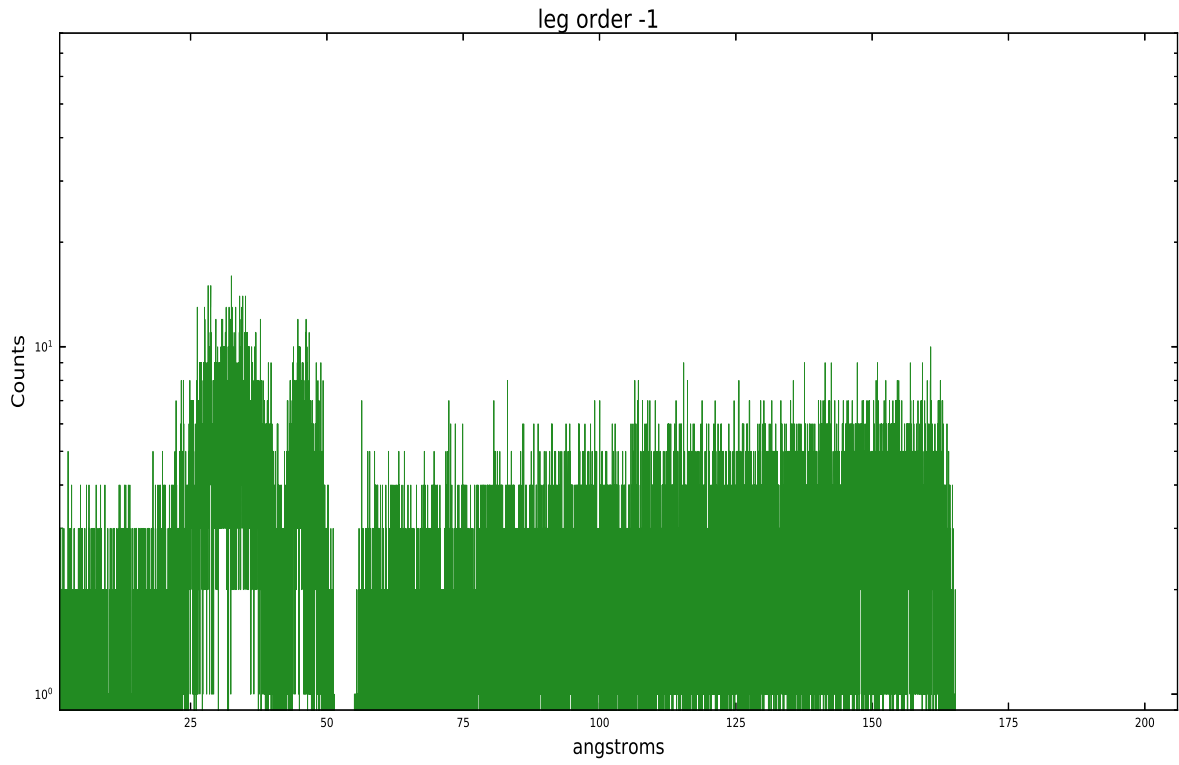


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.67958

## A.2 Comments