

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5396 - L2 Version 4  
Chandra X-Ray Center

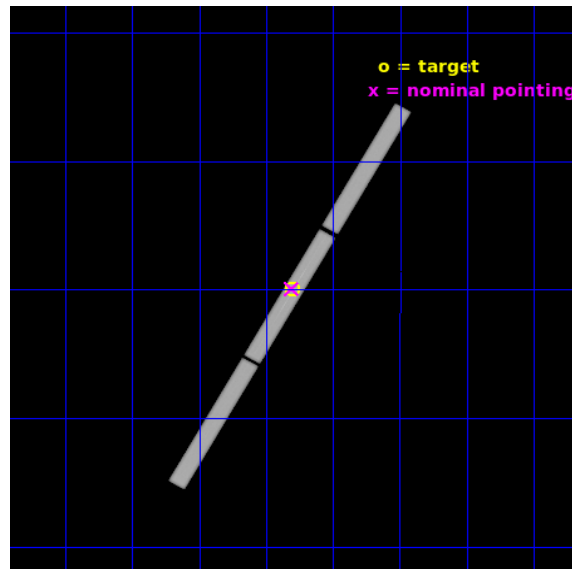
L2 Processing Date : Oct 8 2020

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# 1 Front

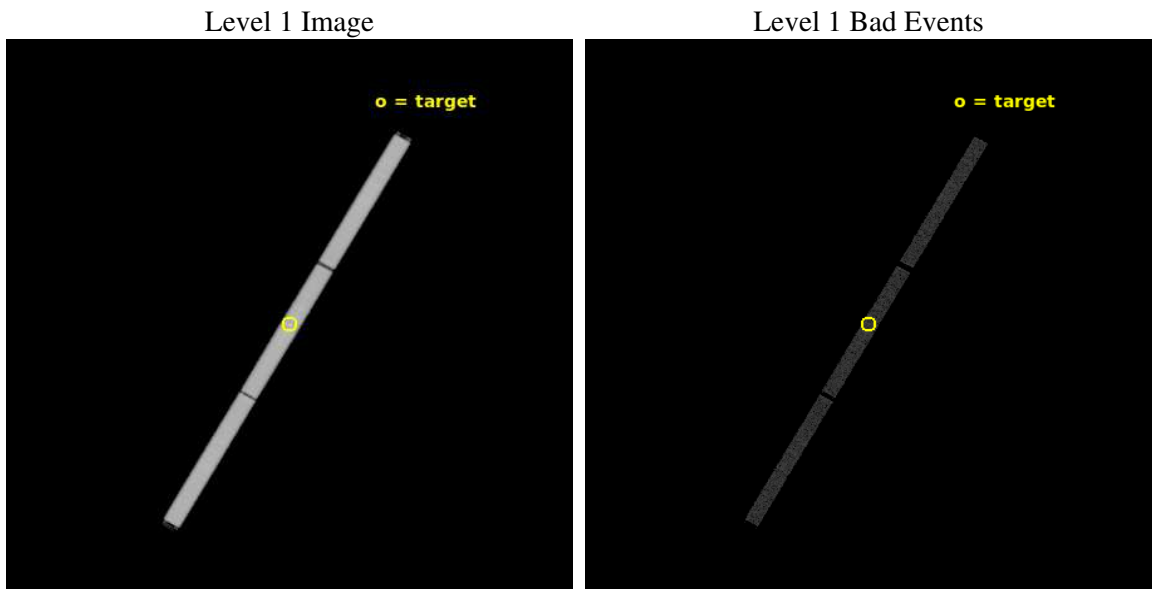
seq_num	200331	Sequence number
obs_id	5396	Observation id
title	The issue of coronal abundances: observation of two active stars with well determined photospheric abundances	Proposal title
observer	Dr Jorge Sanz-Forcada	Principal investigator
object	AY Cet	Source name
ra_targ	19.151667	Observer's specified target RA [deg]
dec_targ	-2.500361	Observer's specified target Dec [deg]
ra_nom	19.15338396455	Nominal RA [deg]
dec_nom	-2.4965080773409	Nominal Dec [deg]
roll_nom	119.88560152922	Nominal Roll [deg]
revision	4	Processing version of data
ontime	43186.583219588	[s]
liveltime	42889.722055513	Ontime multiplied by DTCOR
l2events	2389086	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	43000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	43186.583219588	[s]
caldbver	4.9.2	&#160	l1events	3328046	Number of level 1 events
date	2020-10-08T14:07:32	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32831.01, 32660.86)	src1a sky pixel position

## 2.1.3 Events

### Level 1 Events

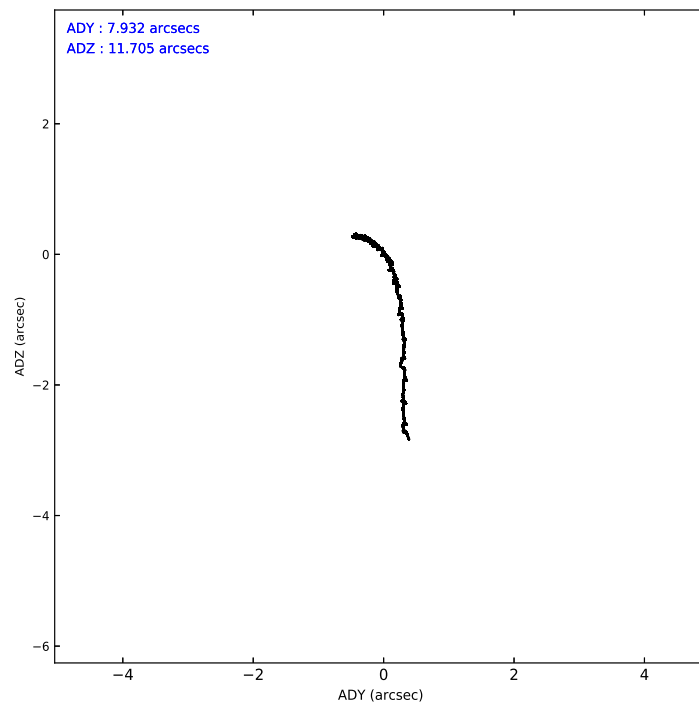
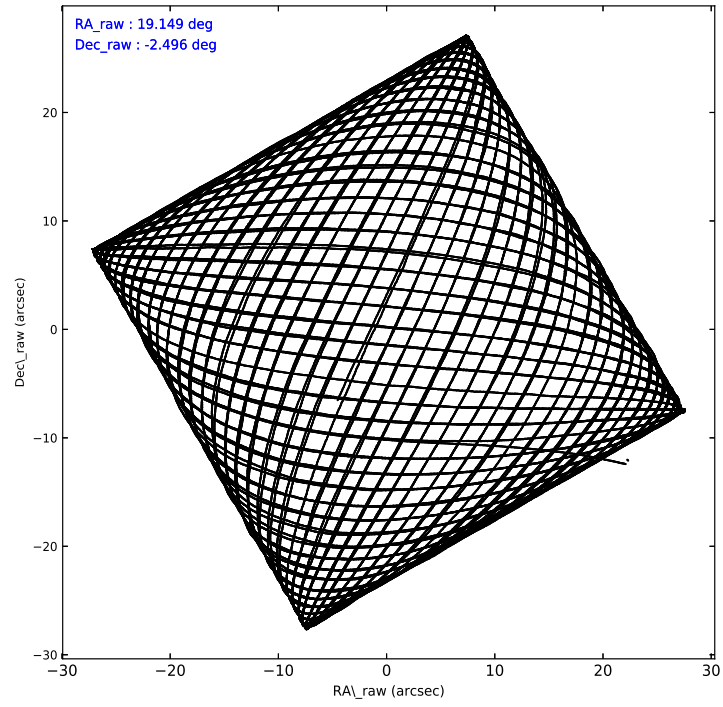
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1109962	1105617	1112467
rejected events	19318	18998	19372
rejected %	1%	1%	1%

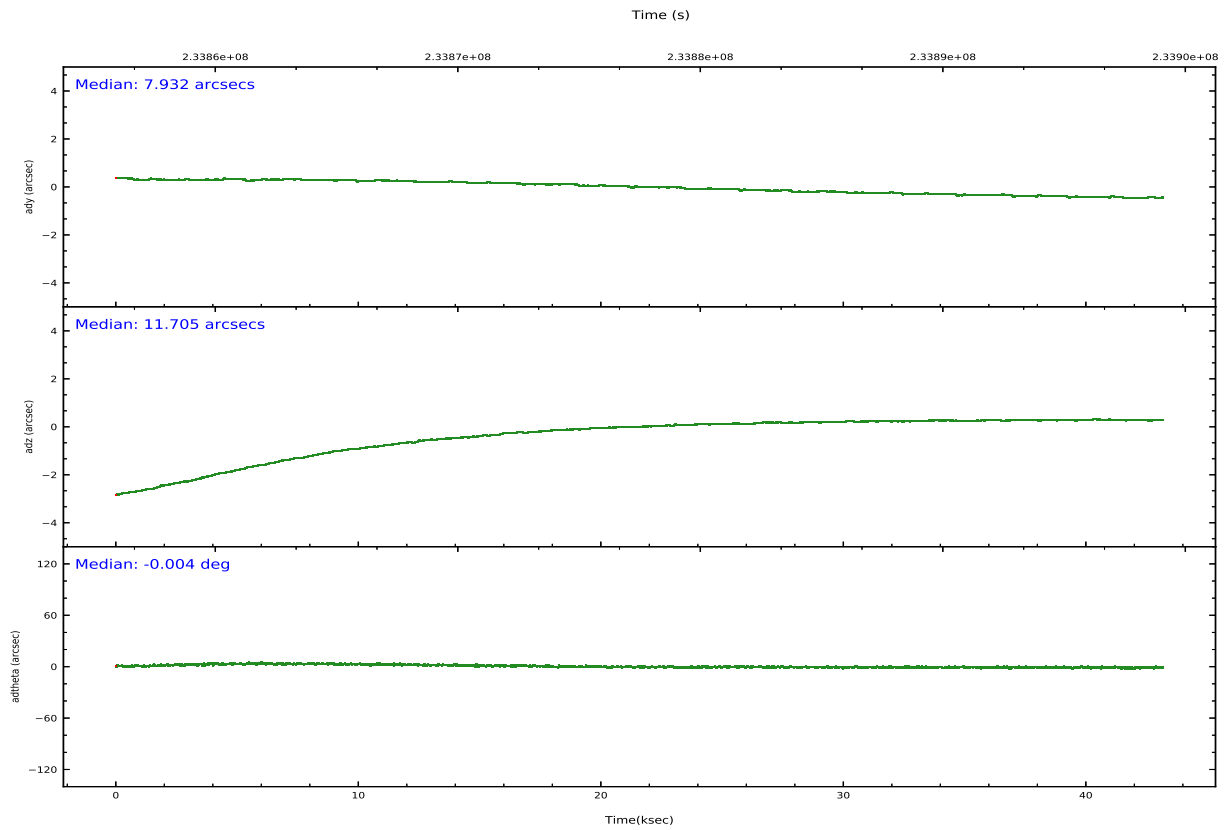
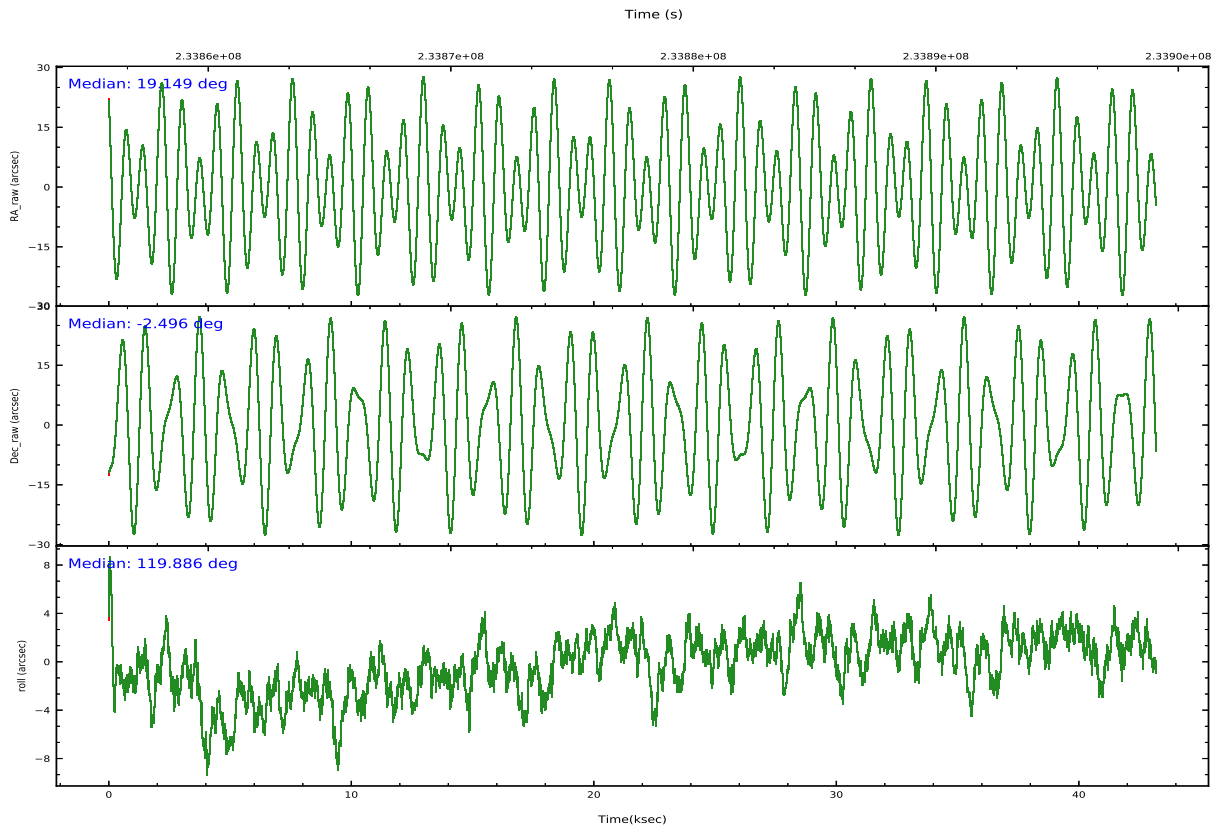
## 2.2 Compared Parameters

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	19.174893	19.15338396455
[deg] Pointing Dec	-2.509342	-2.4965080773409
[deg] Pointing Roll	119.820384	119.88560152922
[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)	233856085.184000	233855494.97334
Observation start date	2005-05-30T16:00:21	2005-05-30T15:51:34
[s] Observation end time (MET)	233899085.184000	233899537.68785
Observation end date	2005-05-31T03:57:01	2005-05-31T04:05:37

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

## 2.3 Aspect





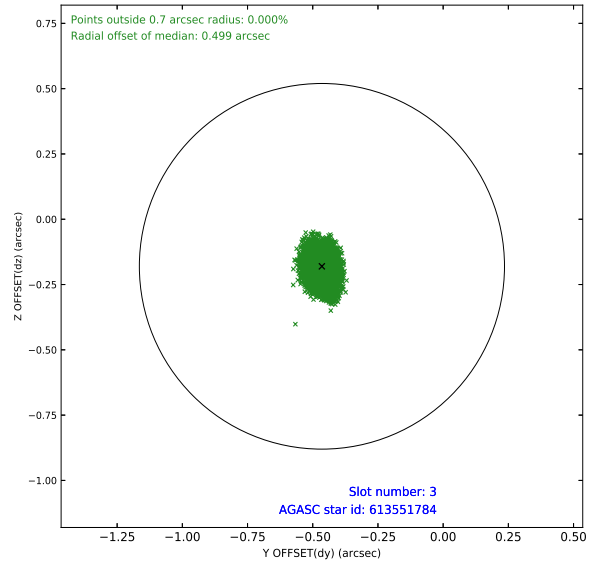
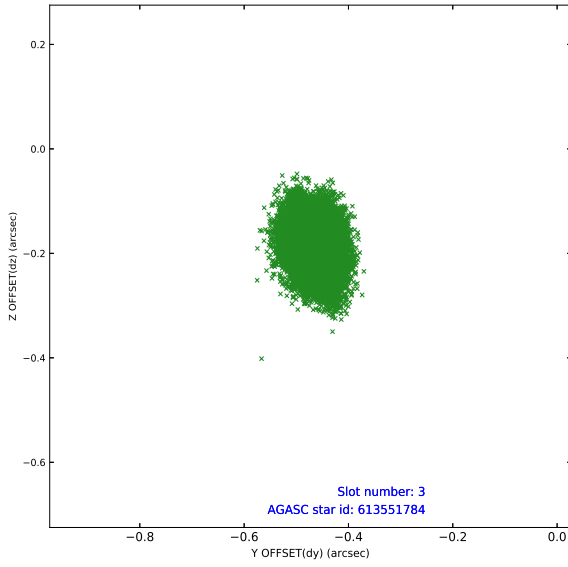
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		HRC-S-1	7.00	10533	1.000	0.110	-0.144	0.031	0.067	0.000000	0.000000	-1162.10	-460
1	FID		HRC-S-2	7.00	10534	1.000	0.182	-0.114	0.012	0.020	0.000000	0.000000	1237.54	-452
2	FID		HRC-S-3	7.02	10534	1.000	0.099	-0.045	0.029	0.066	0.000000	0.000000	-1164.72	569
3	GUIDE	used	613551784	6.38	21068	1.000	-0.465	-0.180	0.050	0.084	18.561752	-2.179492	2125.99	1323
4	GUIDE	used	613679664	8.30	21064	1.000	0.115	-0.090	0.071	0.117	19.163439	-2.686363	-532.18	352
5	GUIDE	used	613696072	6.67	21068	1.000	0.049	0.093	0.079	0.122	19.245859	-2.279163	590.73	-633
6	GUIDE	used	613699032	9.75	21019	1.000	0.197	-0.166	0.152	0.260	18.926193	-3.372435	-2251.44	2320
7	GUIDE	used	613682992	10.05	21052	1.000	0.105	0.345	0.167	0.280	19.958054	-2.523725	-1446.14	-2417

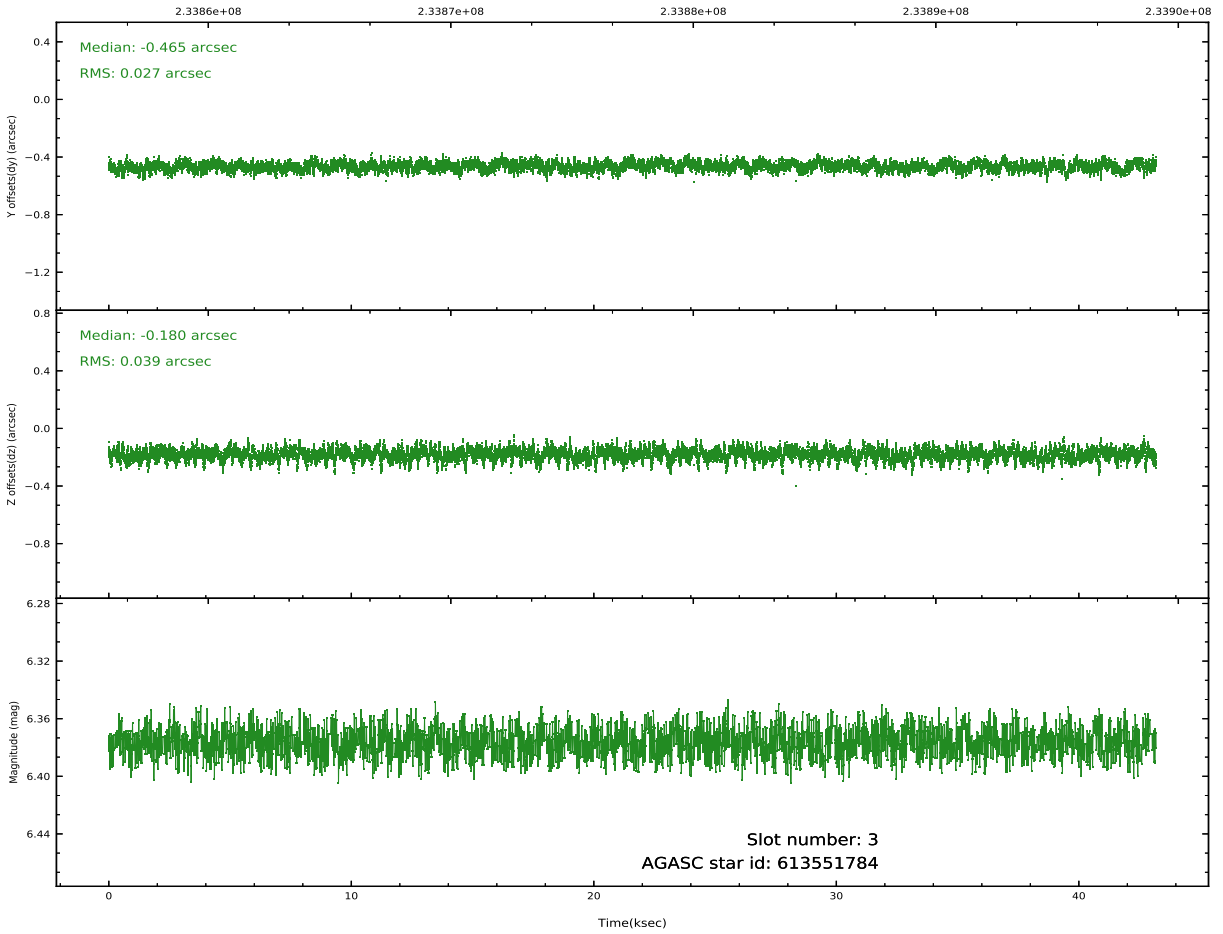
∞

## 2.4 Star Slots

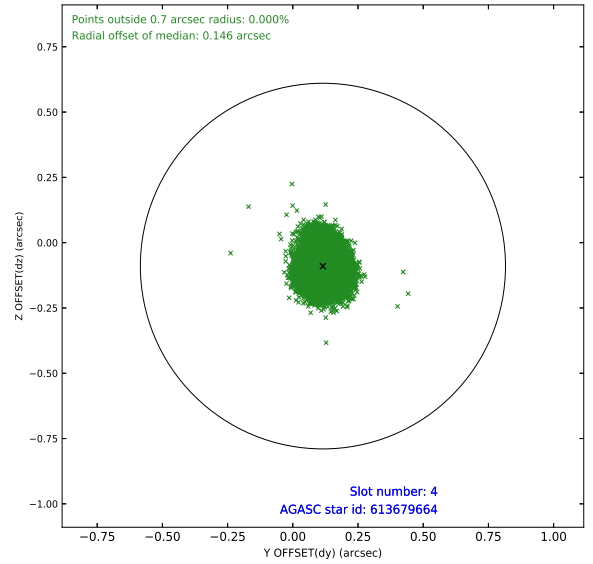
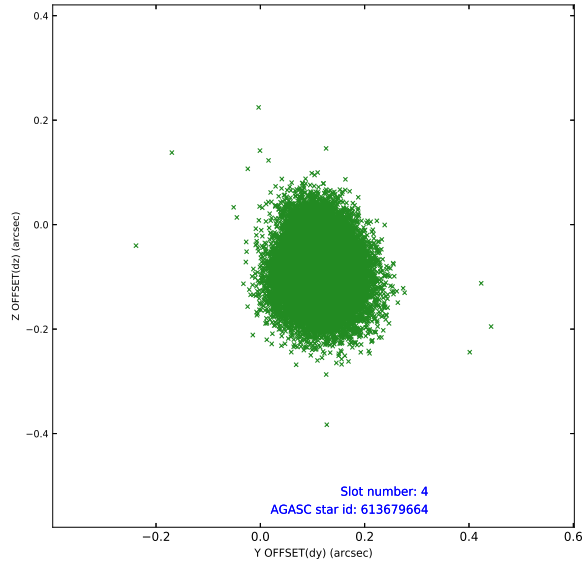
### 2.4.1 Slot 3



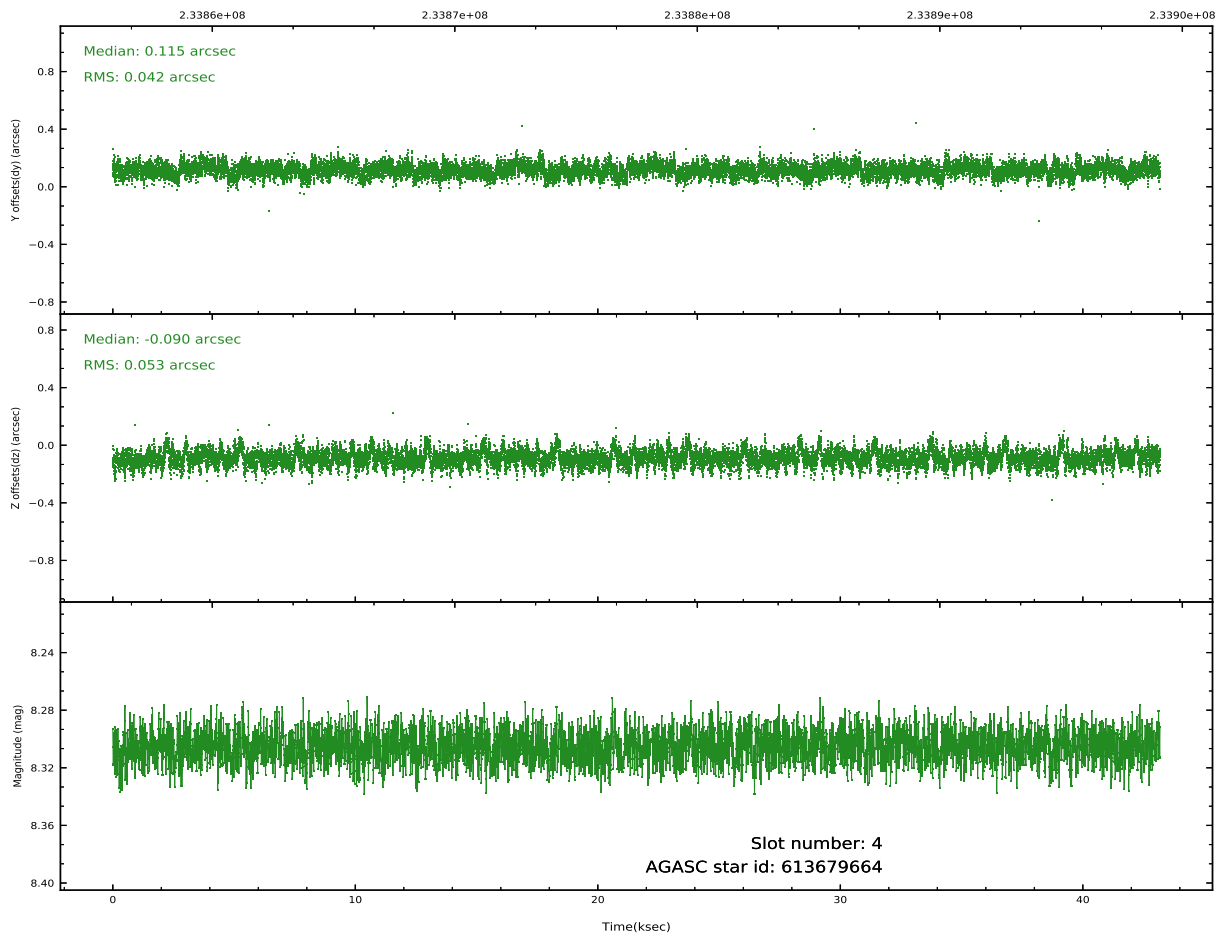
Time (s)



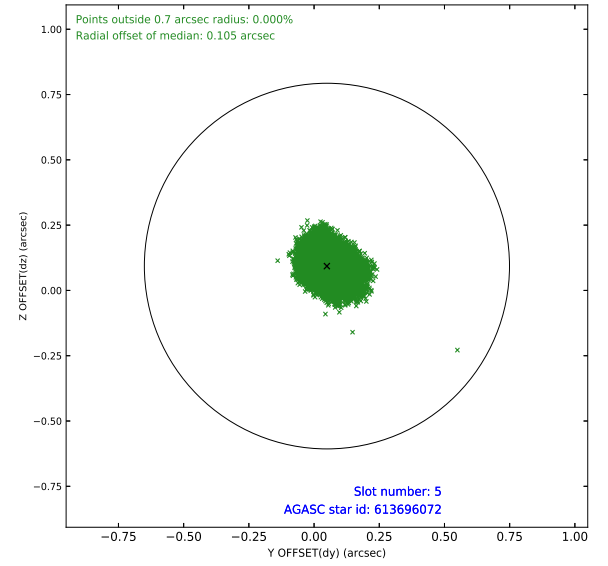
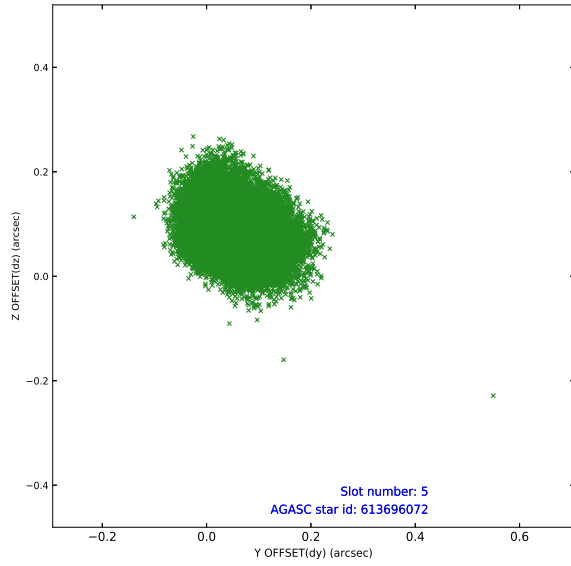
## 2.4.2 Slot 4



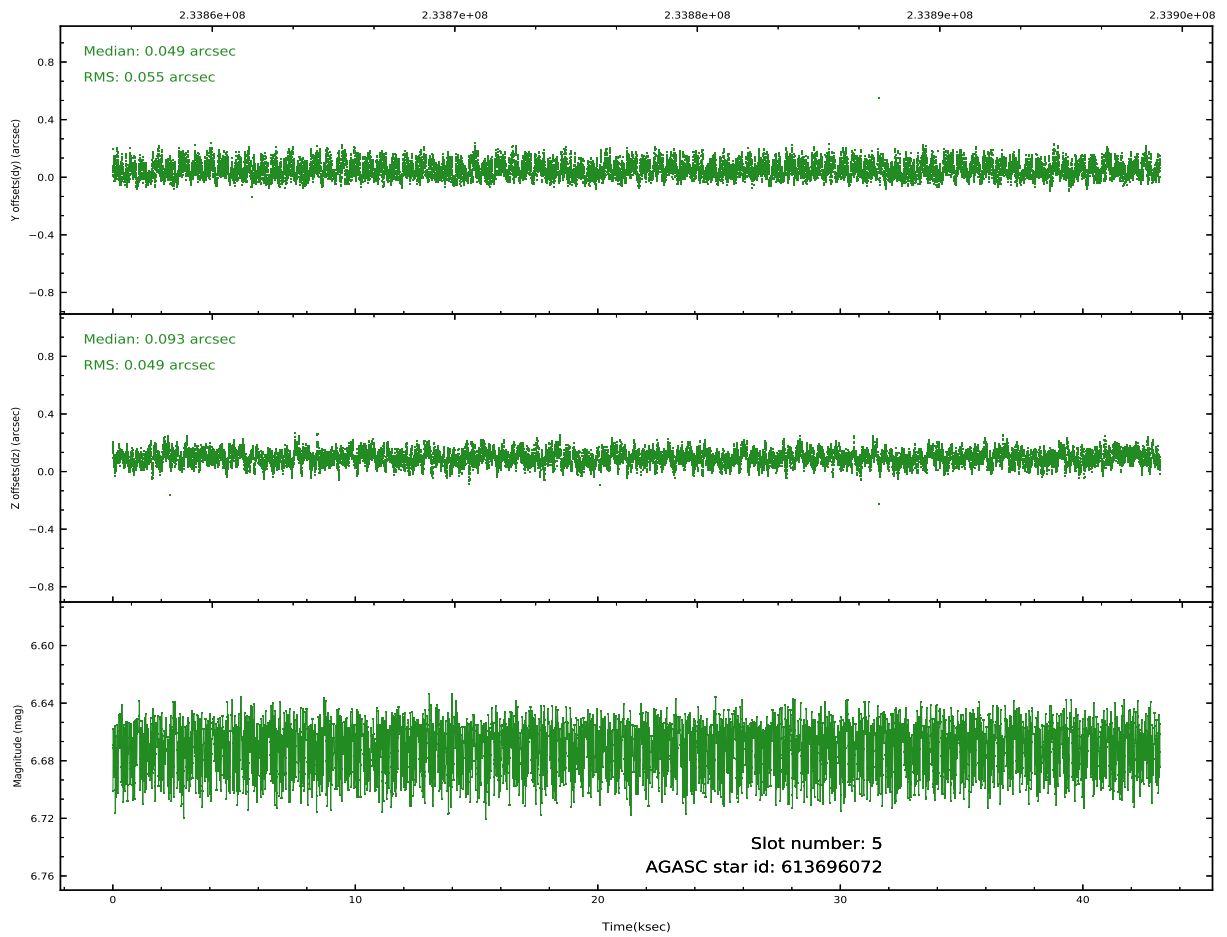
Time (s)



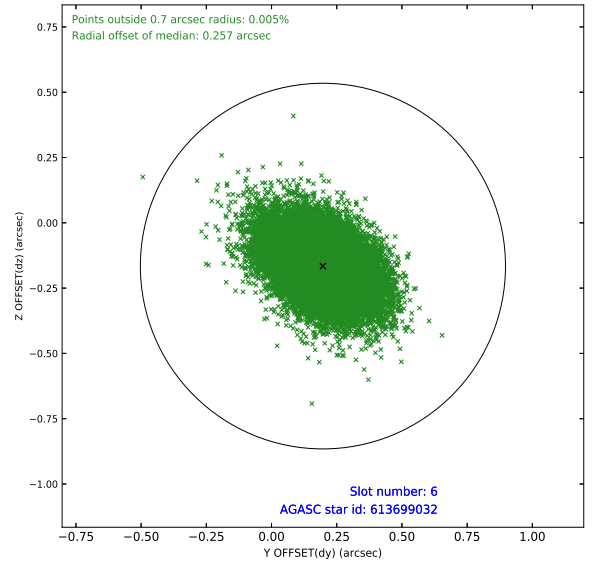
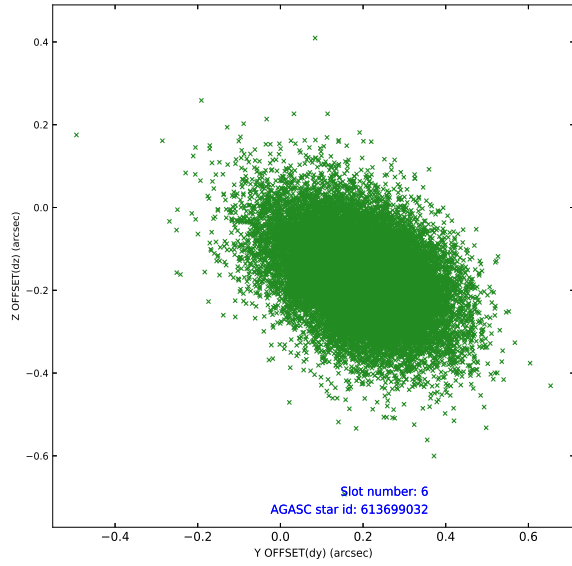
### 2.4.3 Slot 5



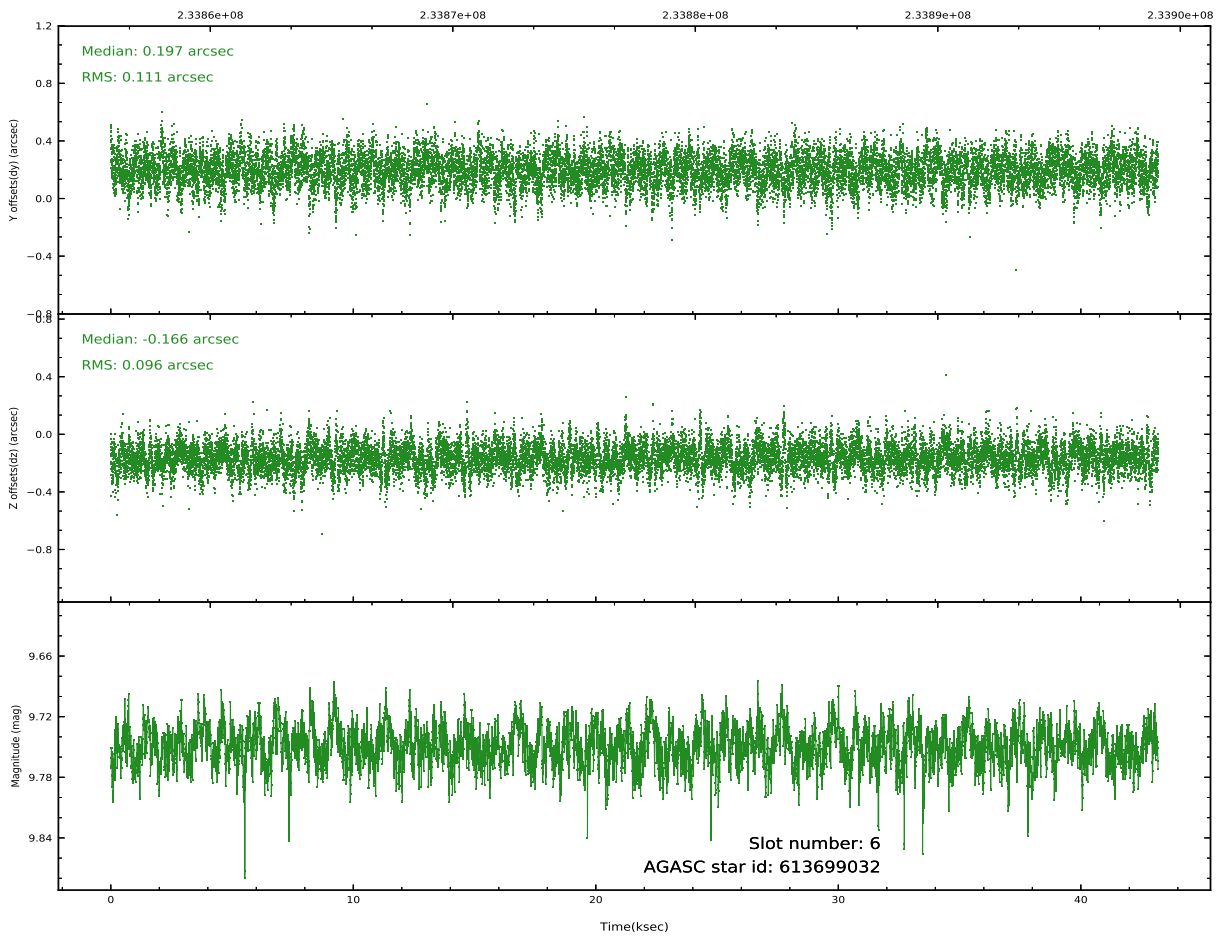
Time (s)



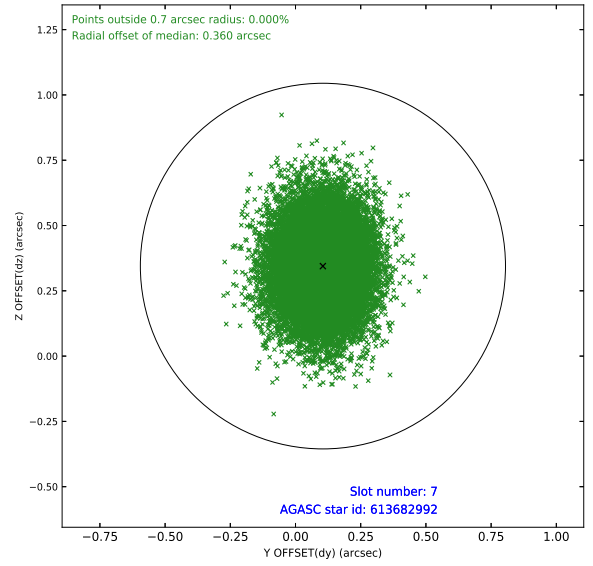
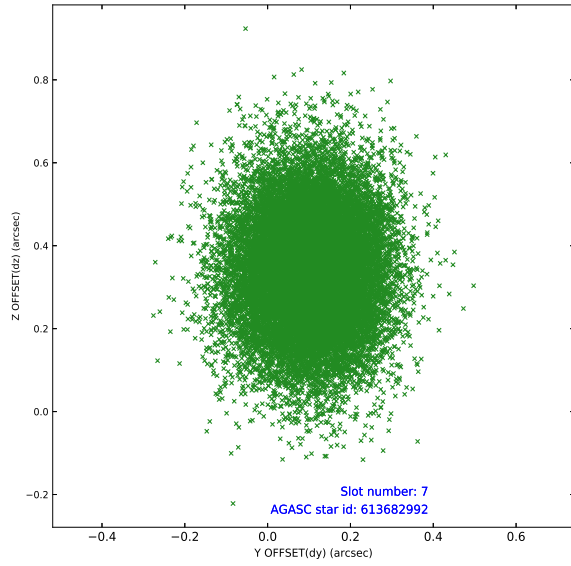
## 2.4.4 Slot 6



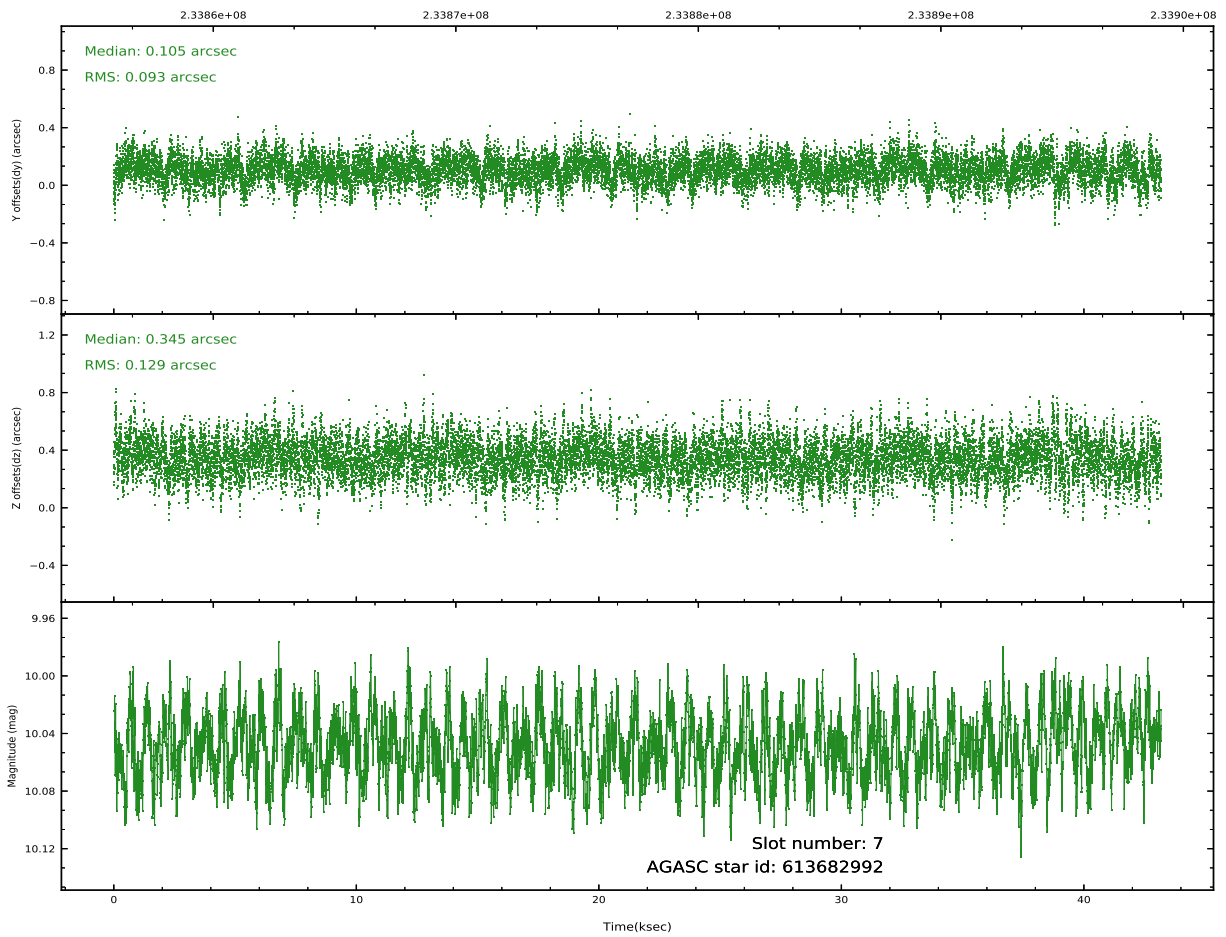
Time (s)



## 2.4.5 Slot 7

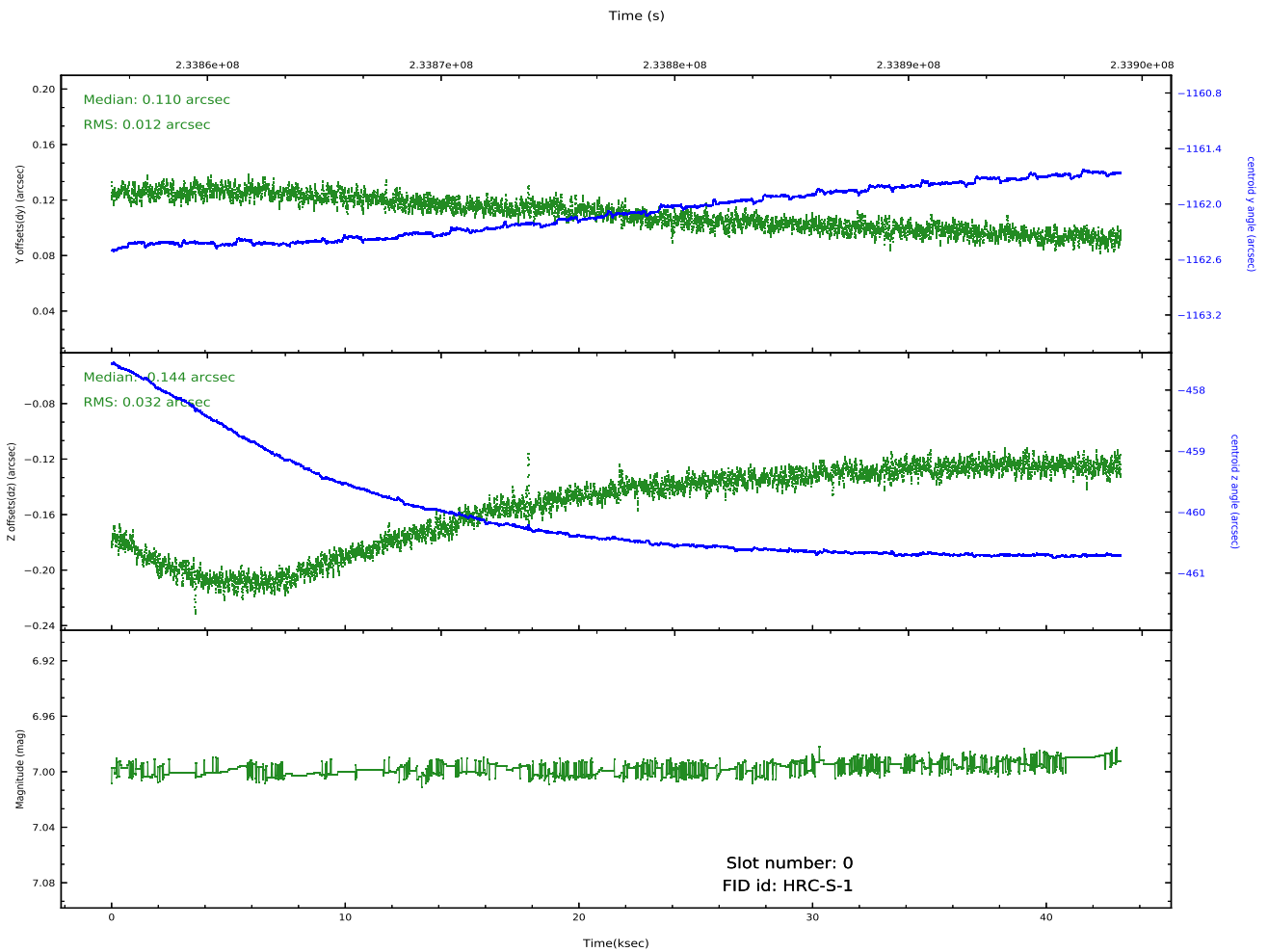
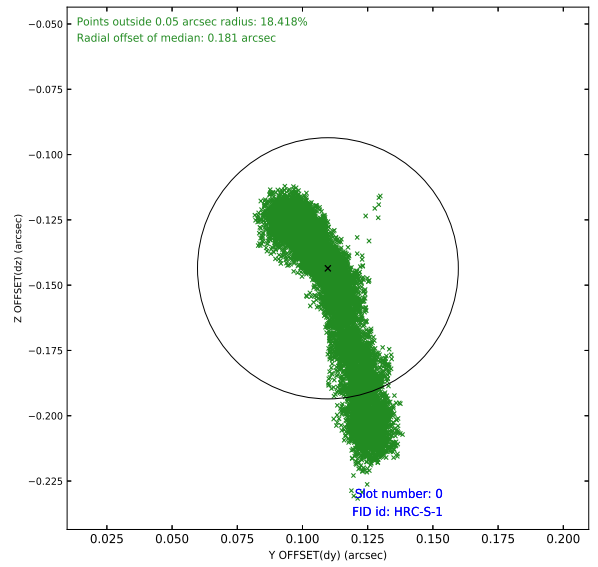
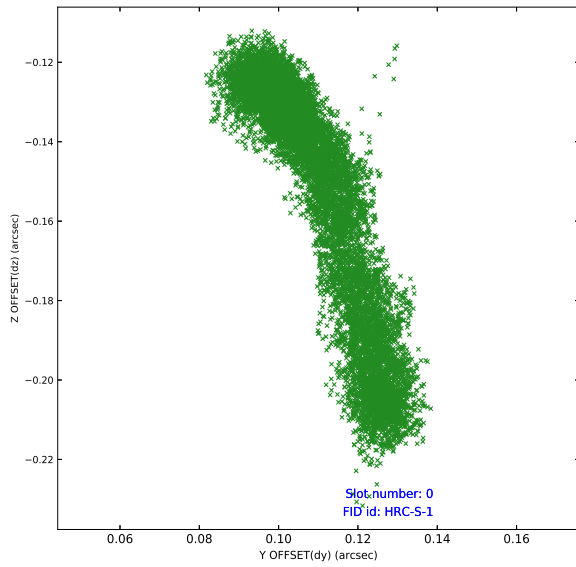


Time (s)

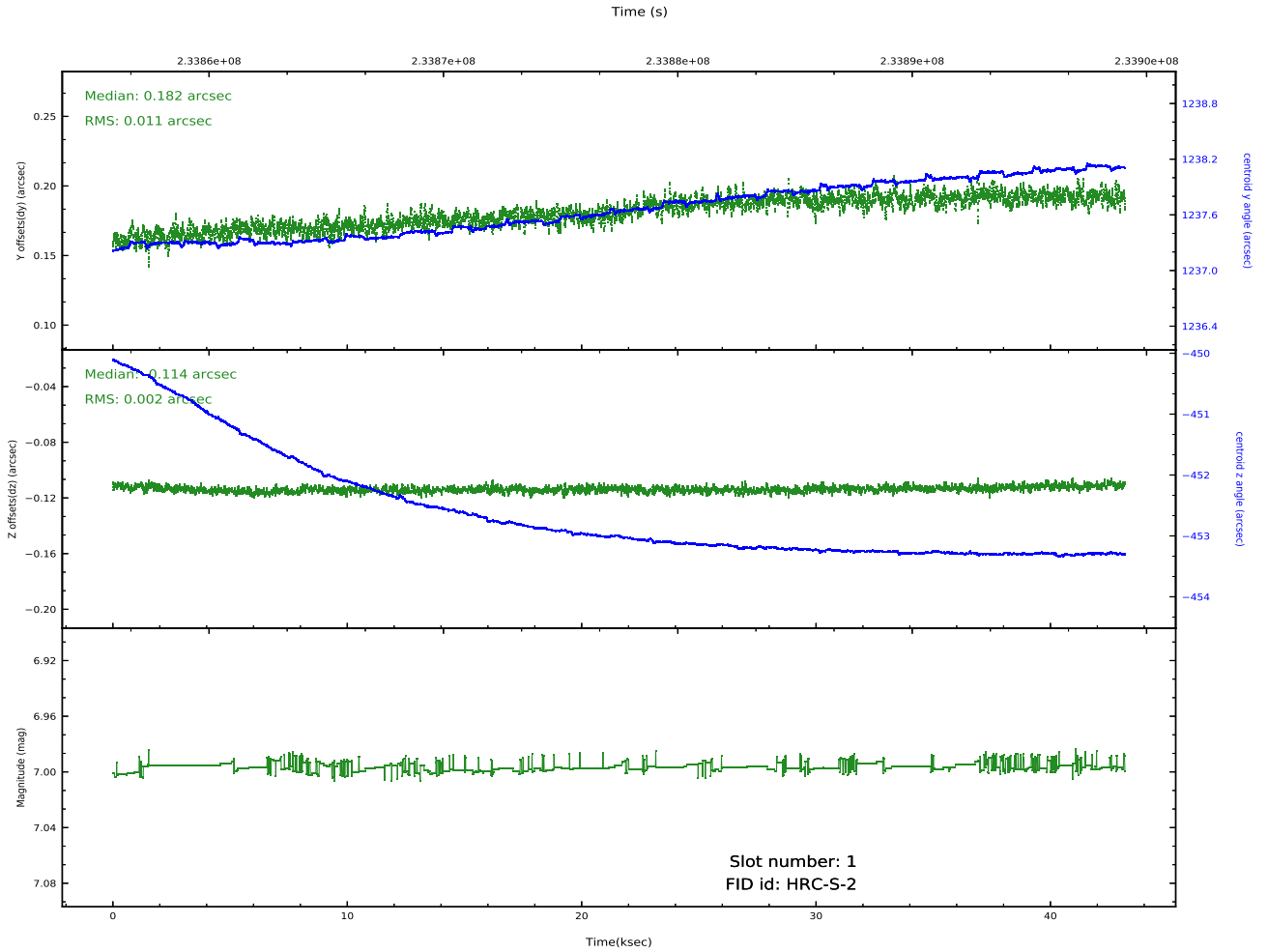
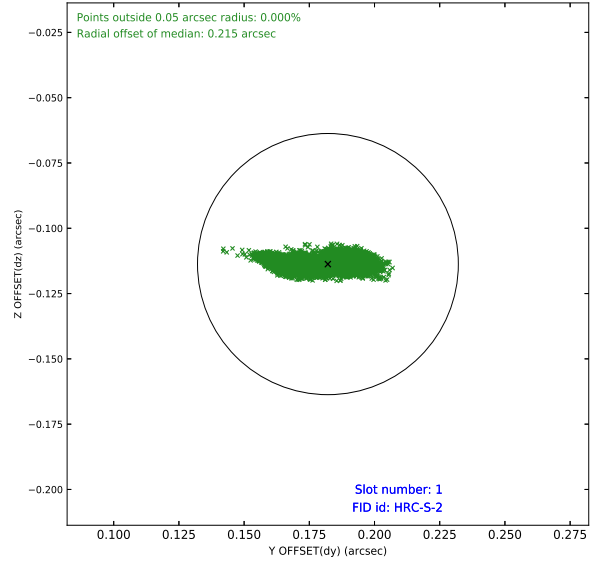
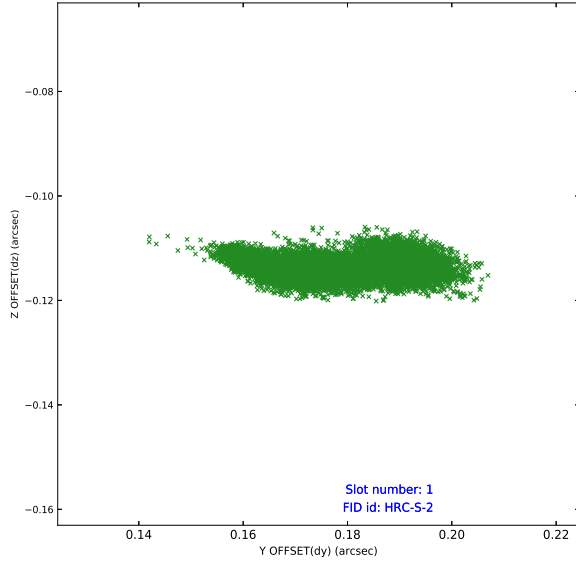


## 2.5 FID Slots

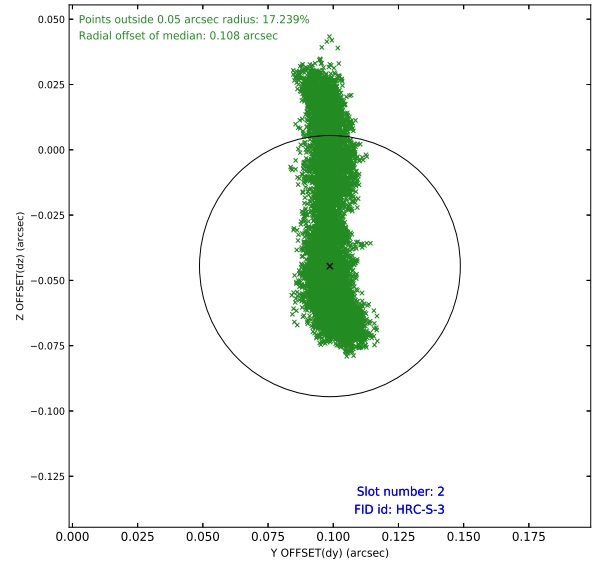
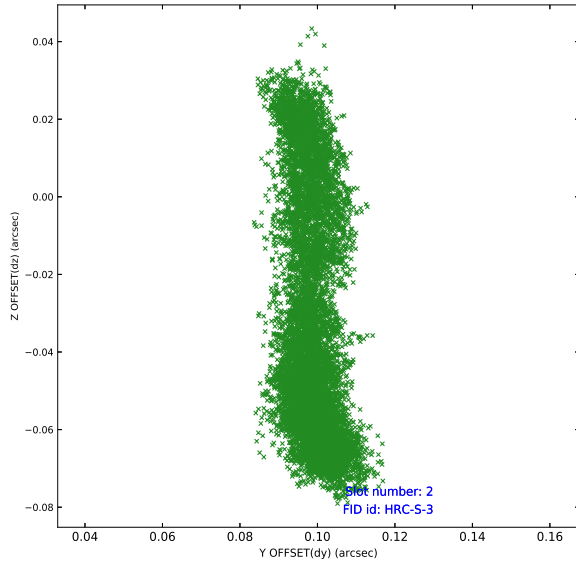
### 2.5.1 Slot 0



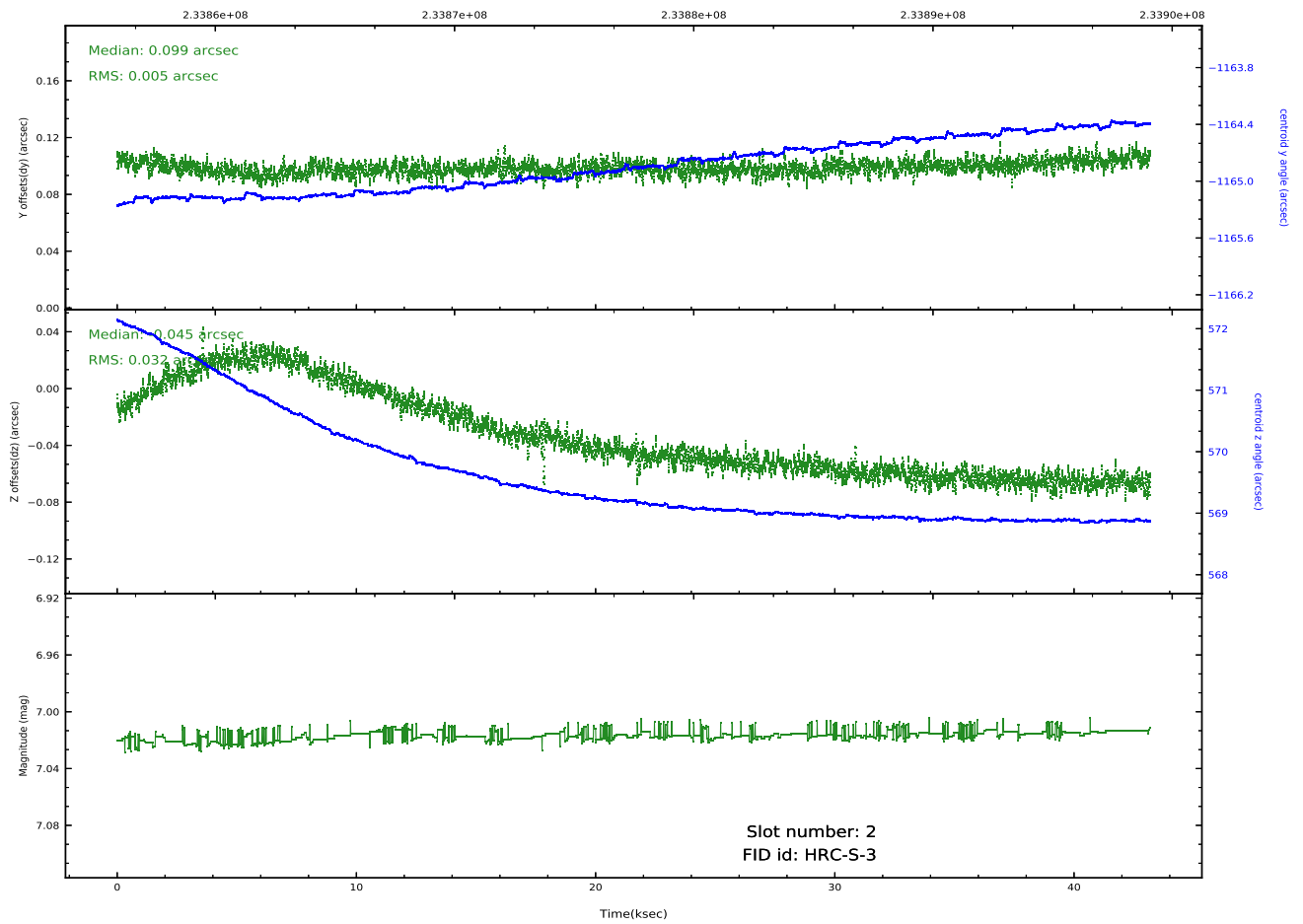
## 2.5.2 Slot 1



### 2.5.3 Slot 2

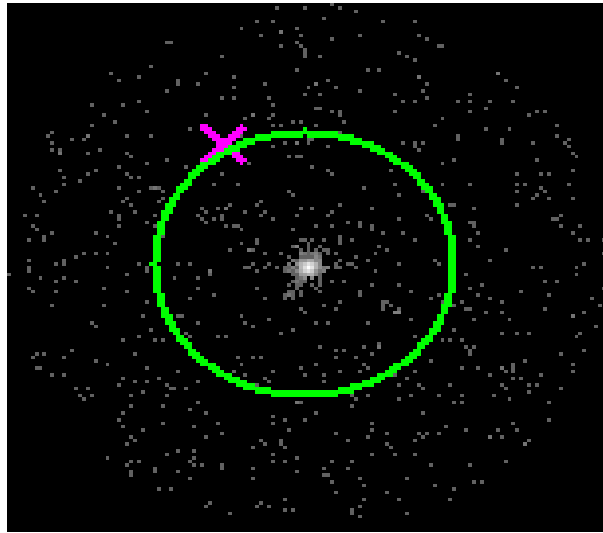


Time (s)

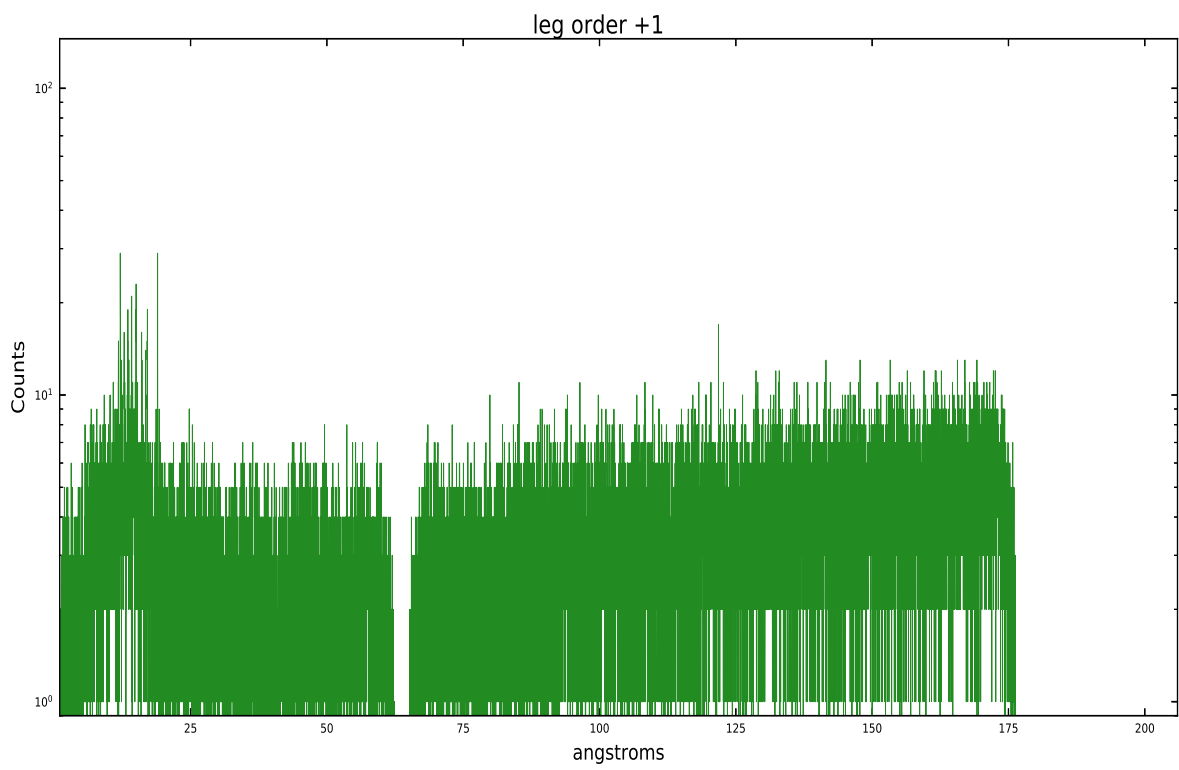
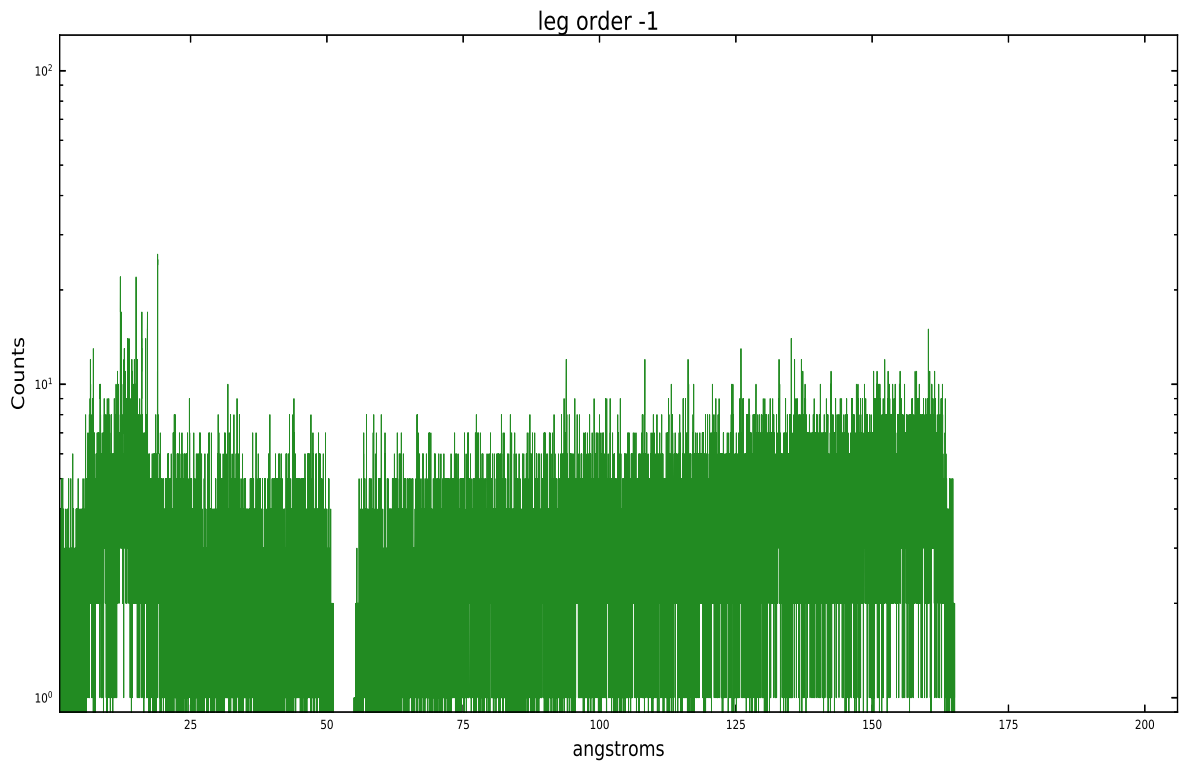


### 3 Gratings

#### 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	43.18658

## A.2 Comments