

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7194 - L2 Version 4
Chandra X-Ray Center

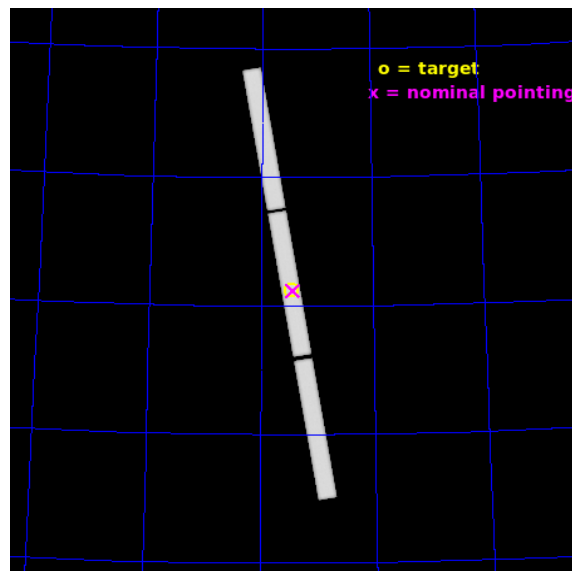
L2 Processing Date : Oct 11 2020

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1 Front

seq_num	200330	Sequence number
obs_id	7194	Observation id
title	The location and spatial structure of the X-ray emitting plasma in the magnetically confined environment of beta Cep	Proposal title
observer	Dr Coralie Neiner	Principal investigator
object	beta Cep	Source name
ra_targ	322.165	Observer's specified target RA [deg]
dec_targ	70.560717	Observer's specified target Dec [deg]
ra_nom	322.1548855405	Nominal RA [deg]
dec_nom	70.558738537529	Nominal Dec [deg]
roll_nom	260.27337061909	Nominal Roll [deg]
revision	4	Processing version of data
ontime	38174.333010703	[s]
liveltime	37875.185730935	Ontime multiplied by DTCOR
l2events	2410068	Number of level 2 events

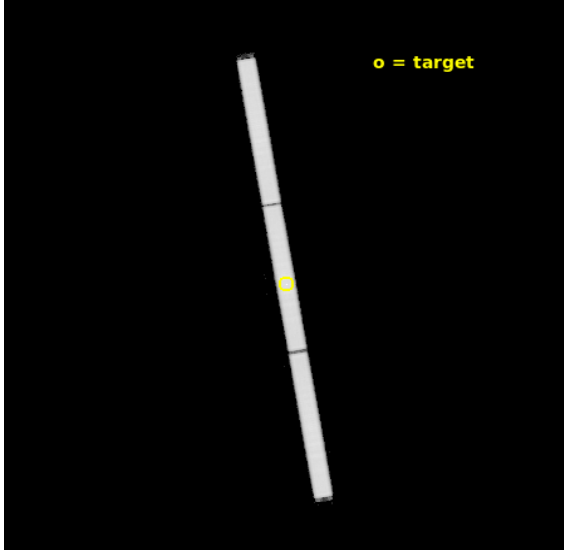


2 OBI

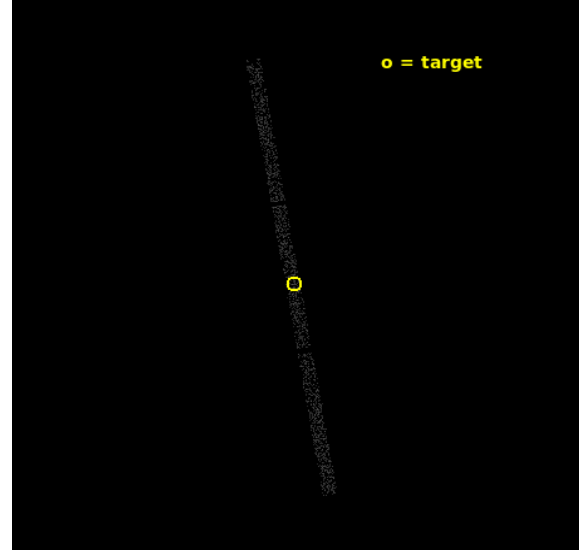
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	38174.333010703	[s]
caldsver	4.9.2	 	l1events	3322498	Number of level 1 events
date	2020-10-11T13:35:28	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32678.97, 32821.65)	src1a sky pixel position

2.1.3 Events

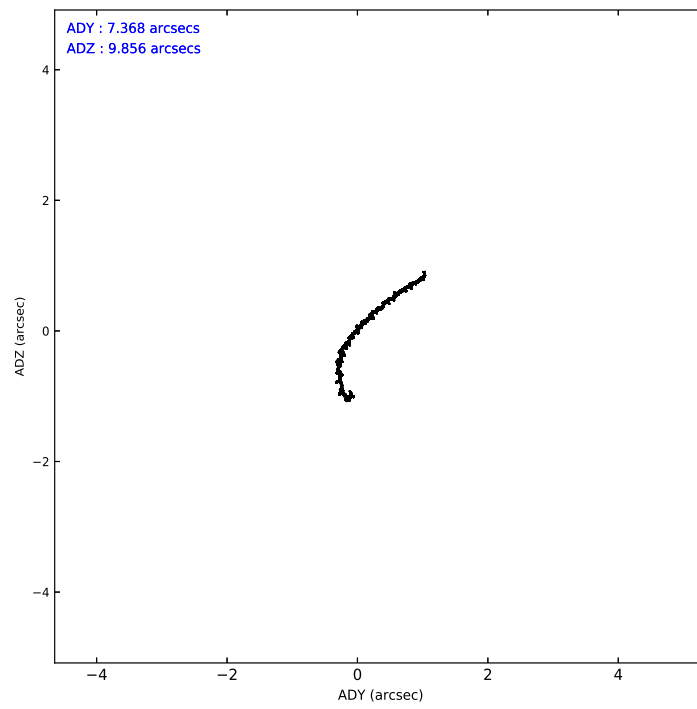
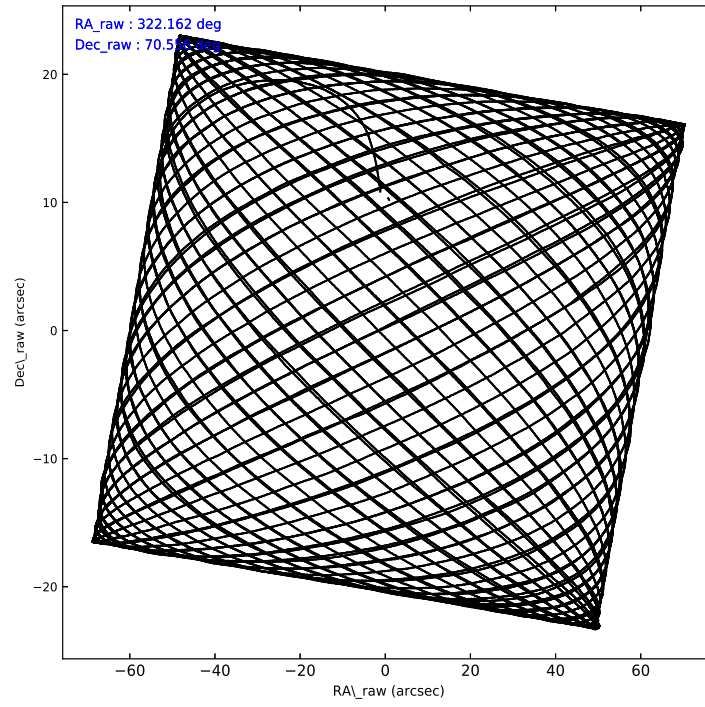
Level 1 Events

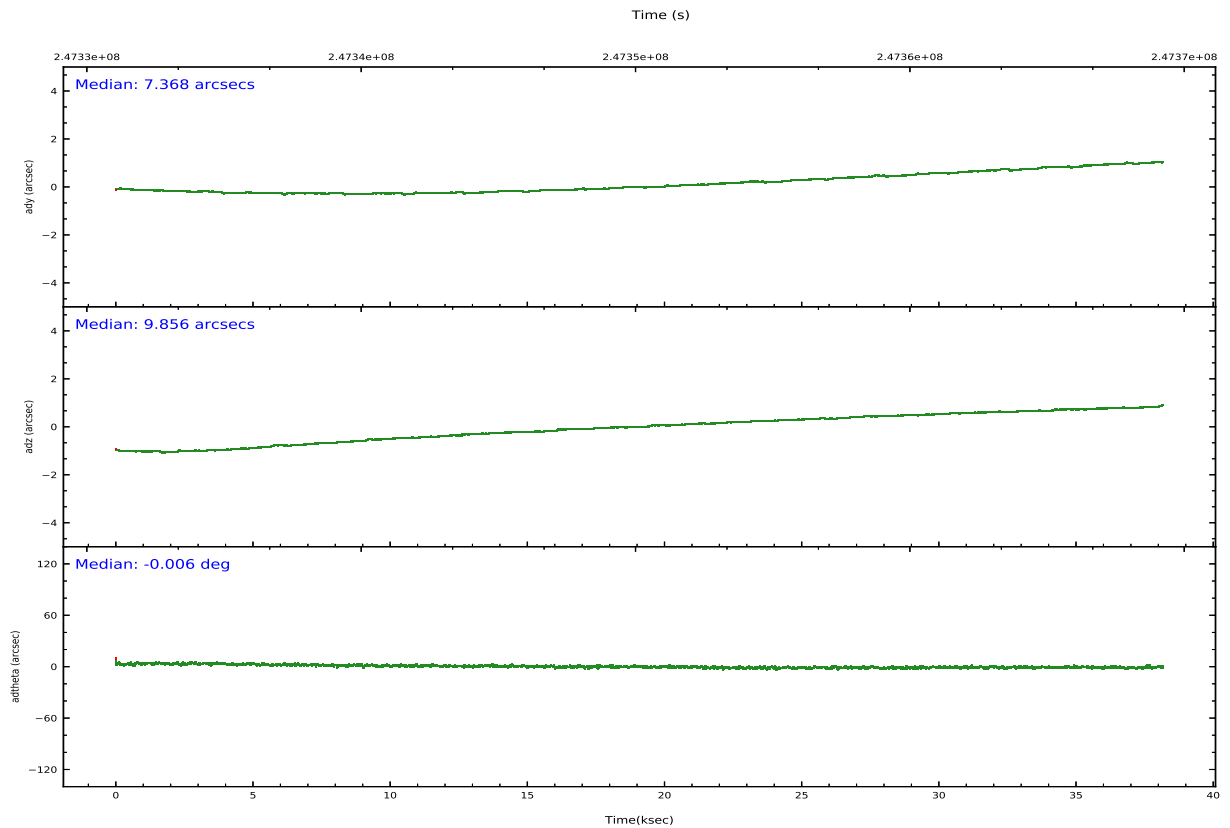
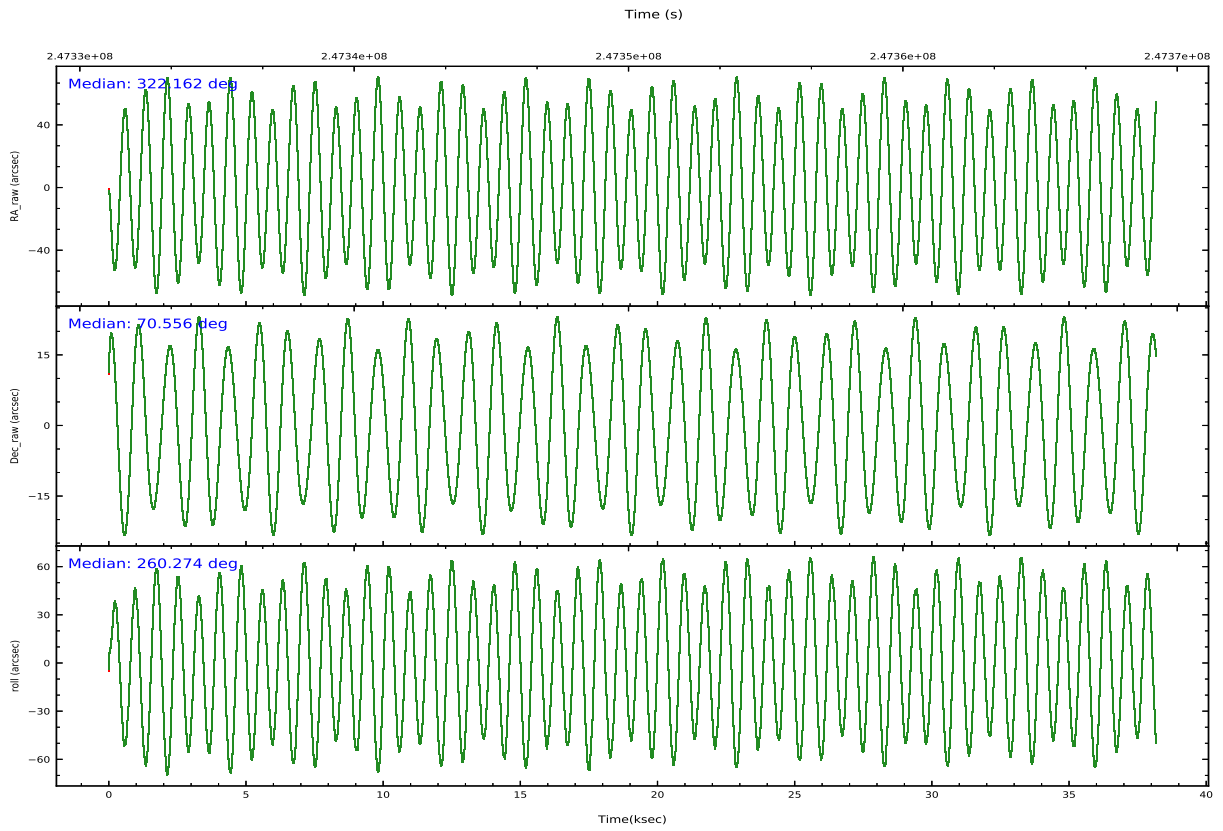
	segment 1	segment 2	segment 3
level 1 events	1115116	1094011	1113371
rejected events	23056	22496	23149
rejected %	2%	2%	2%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar version number	8	8
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	322.128446	322.1548855405			
[deg] Pointing Dec	70.582433	70.558738537529			
[deg] Pointing Roll	260.234471	260.27337061909			
[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			
Phase constraints	Y	Y			
[d] Phase period	12.000750	12.000750			
[d] Phase epoch (MJD)	53962.310000	53962.310000			
Phase start	0.216245	0.216245			
Phase end	0.283755	0.283755			
Phase start error	0.020000	0.020000			
Phase end error	0.020000	0.020000			
[s] Observation start time (MET)	247331231.184000	247330284.4788			
Observation start date	2005-11-02T15:06:07	2005-11-02T14:51:24			
[s] Observation end time (MET)	247369231.184000	247369936.60563			
Observation end date	2005-11-03T01:39:27	2005-11-03T01:52:16			

2.3 Aspect





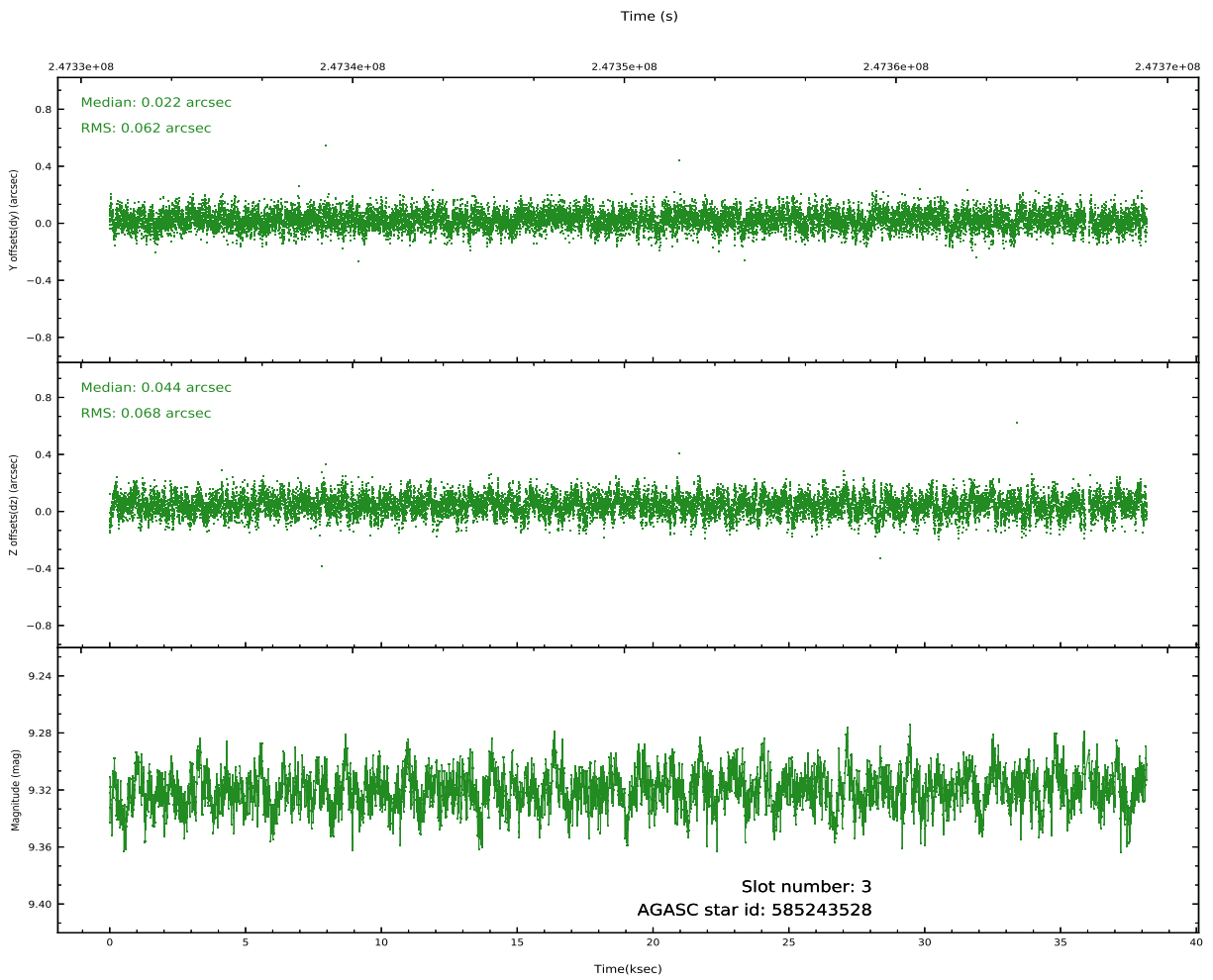
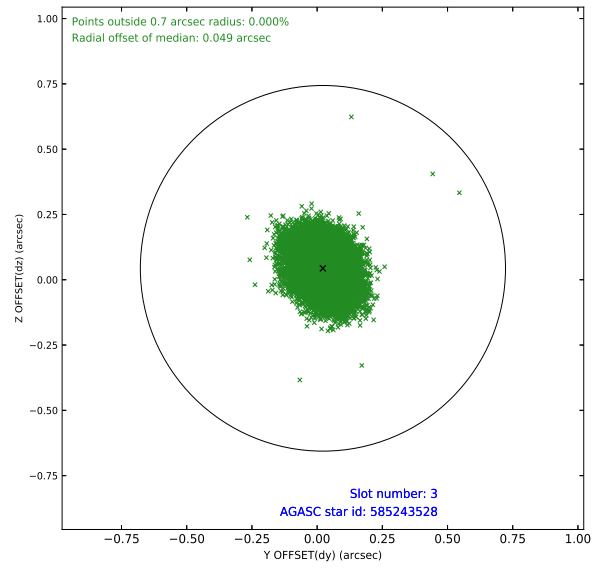
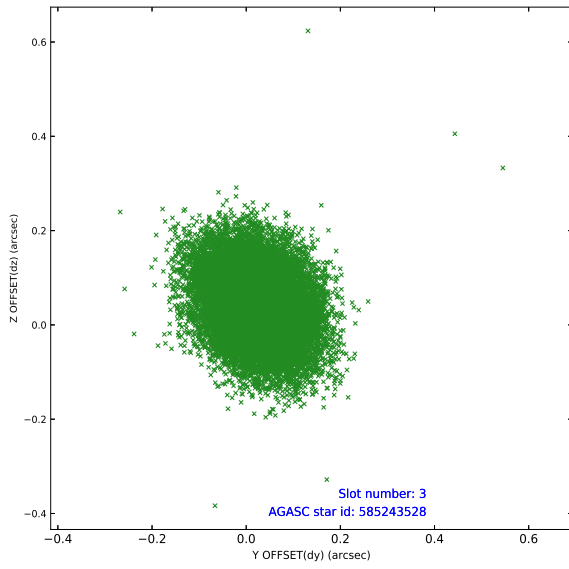
Slot Statistics

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	7.05	9312	1.000	0.032	-0.147	0.009	0.023	0.000000	0.000000	-1161.76	-458
1	FID		HRC-S-2	7.04	9312	1.000	0.134	-0.146	0.027	0.043	0.000000	0.000000	1237.89	-451
2	FID		HRC-S-4	7.02	9311	1.000	0.238	-0.011	0.022	0.043	0.000000	0.000000	1236.80	573
3	GUIDE	used	585243528	9.32	18543	1.000	0.022	0.044	0.097	0.161	323.001841	70.190189	1203.98	1288
4	GUIDE	used	585244656	7.41	18623	1.000	-0.075	-0.049	0.071	0.110	322.746463	70.823219	-981.62	572
5	GUIDE	used	585245544	7.36	18623	1.000	-0.054	-0.091	0.062	0.099	321.319997	70.477535	530.74	-895
6	GUIDE	used	585249712	9.18	18613	1.000	0.094	0.050	0.089	0.147	322.943679	70.596904	-222.66	950
7	GUIDE	used	585244168	9.03	18597	1.000	0.008	0.046	0.073	0.120	323.050612	69.955180	2024.12	1503

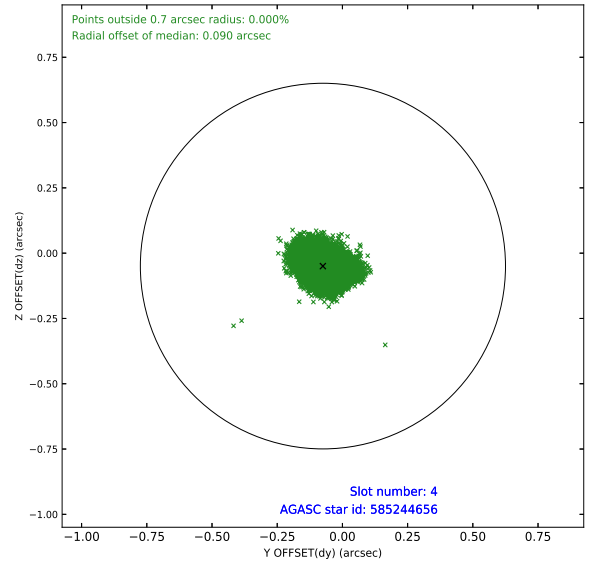
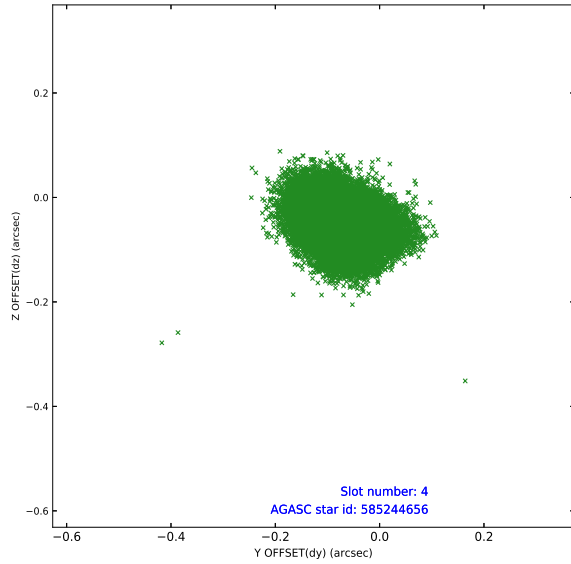
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2.4 Star Slots

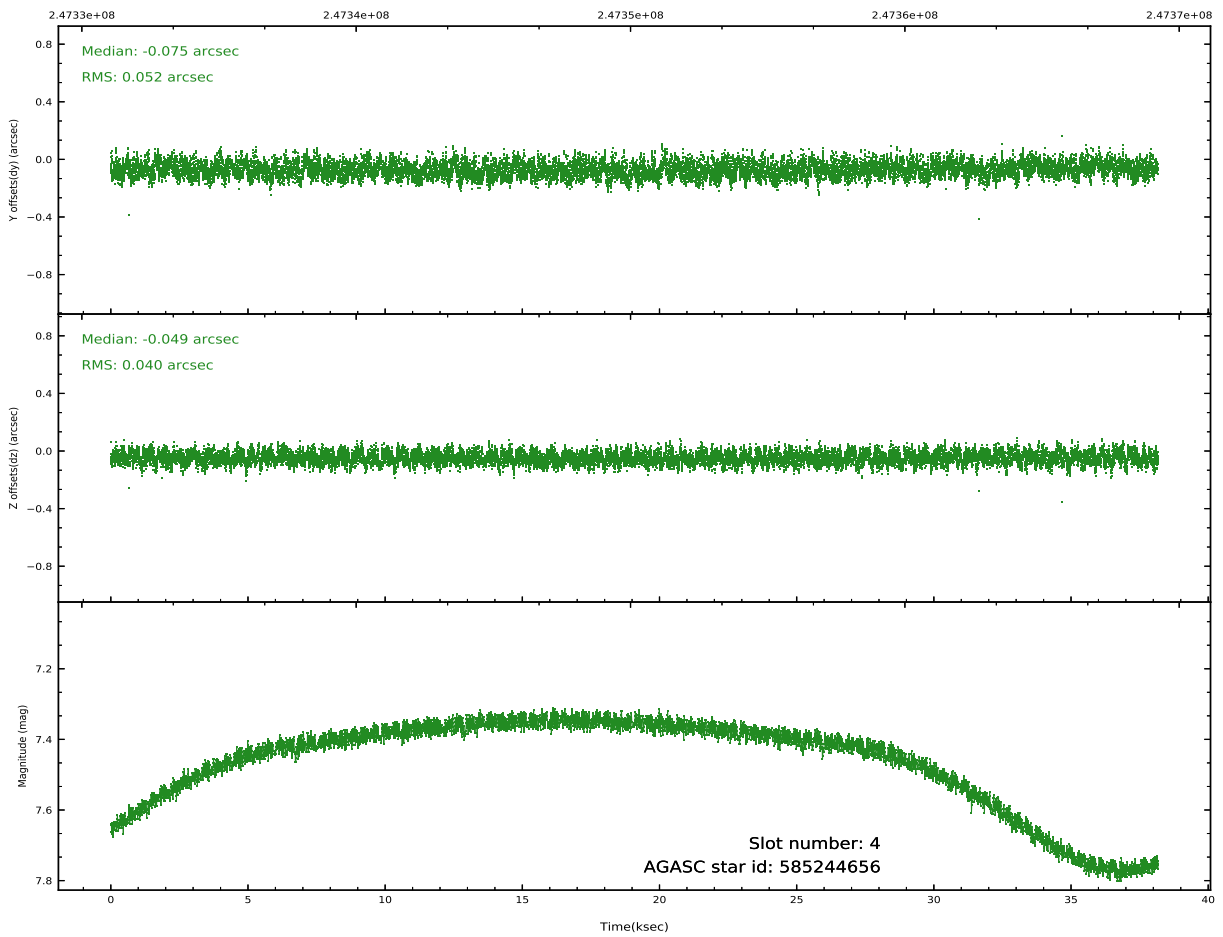
2.4.1 Slot 3



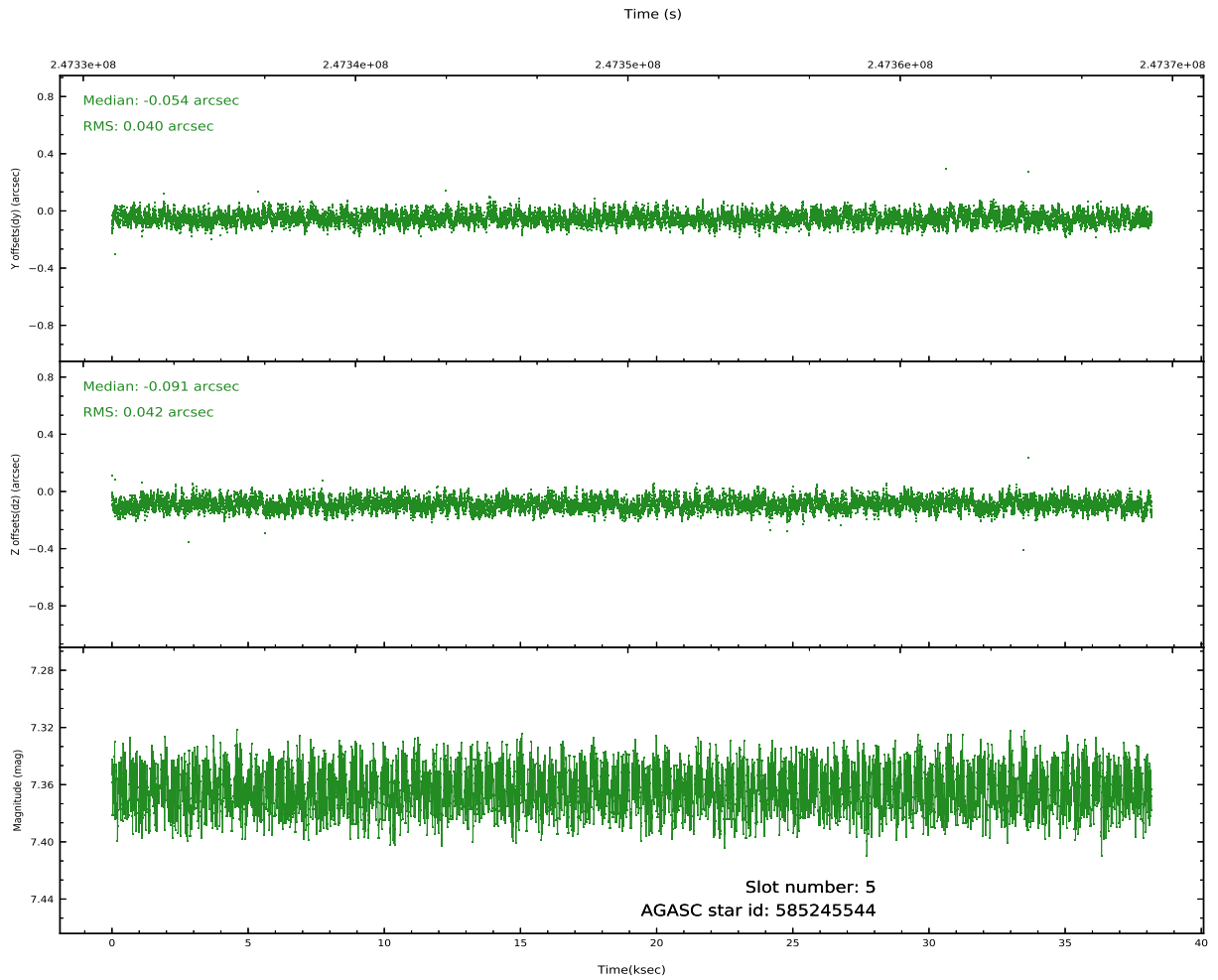
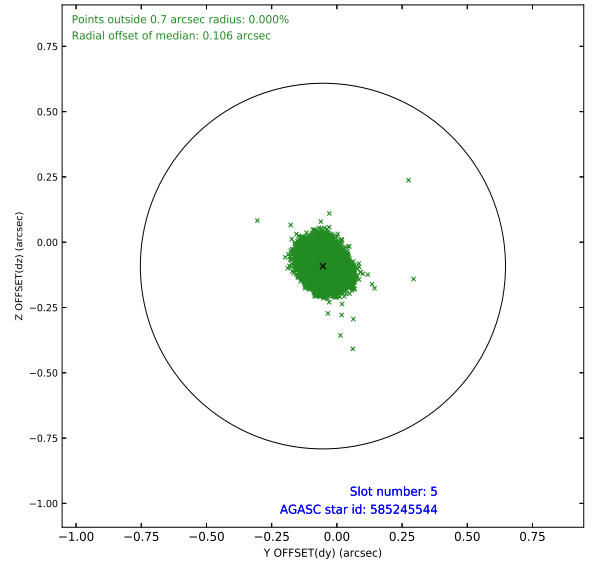
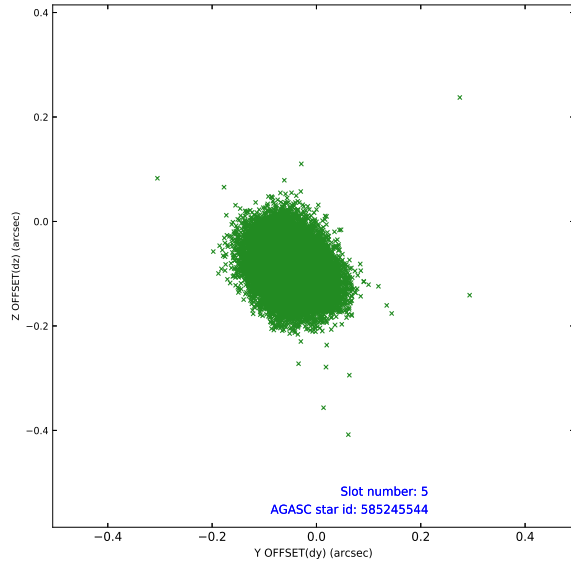
2.4.2 Slot 4



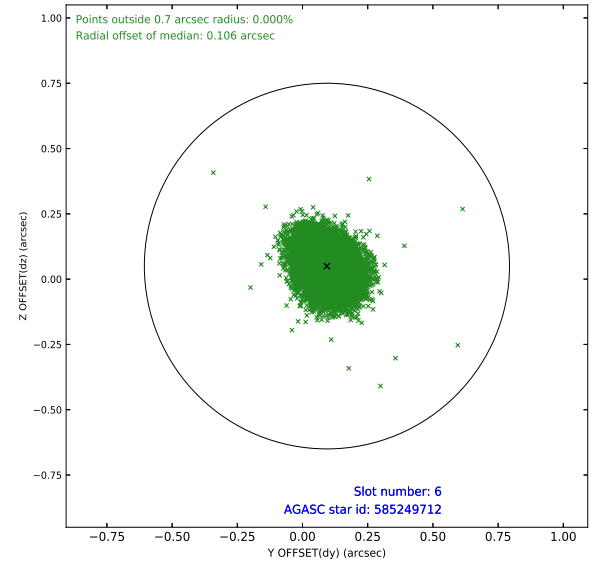
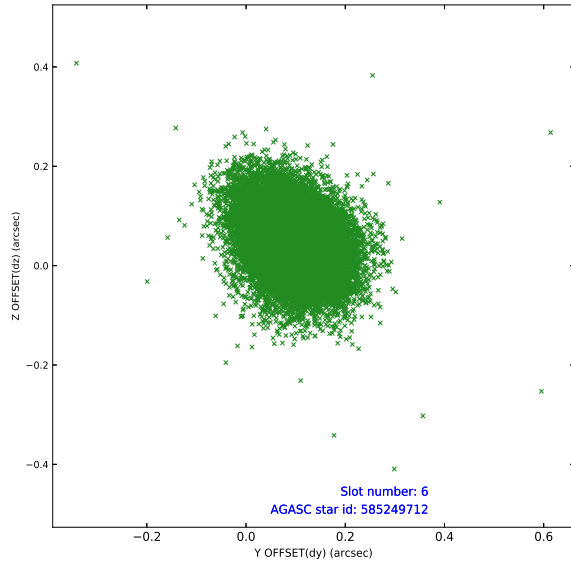
Time (s)



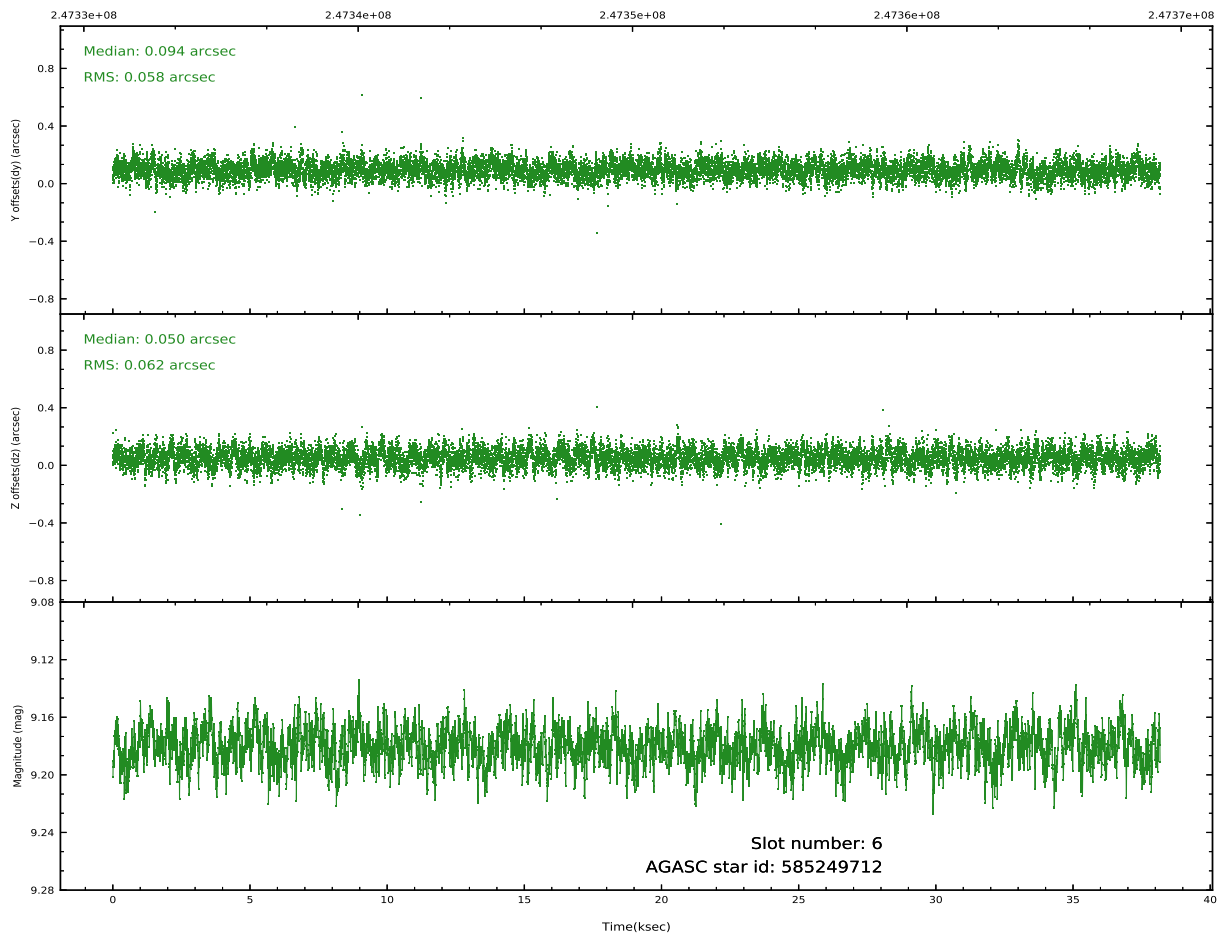
2.4.3 Slot 5



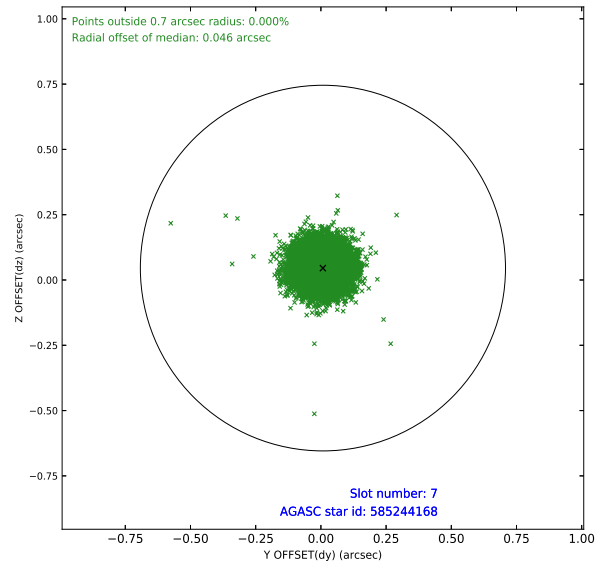
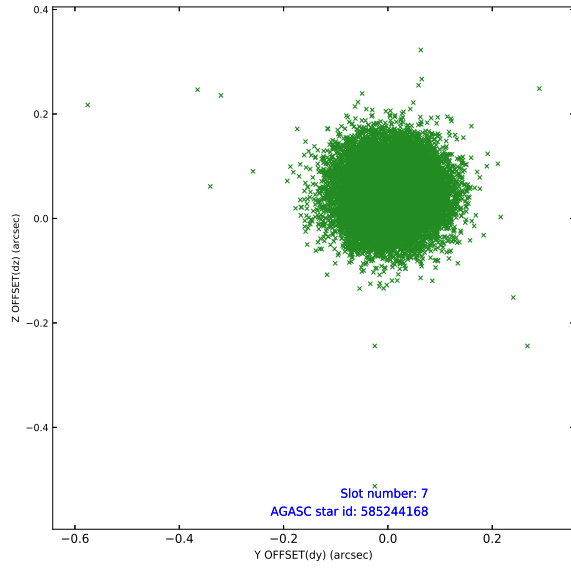
2.4.4 Slot 6



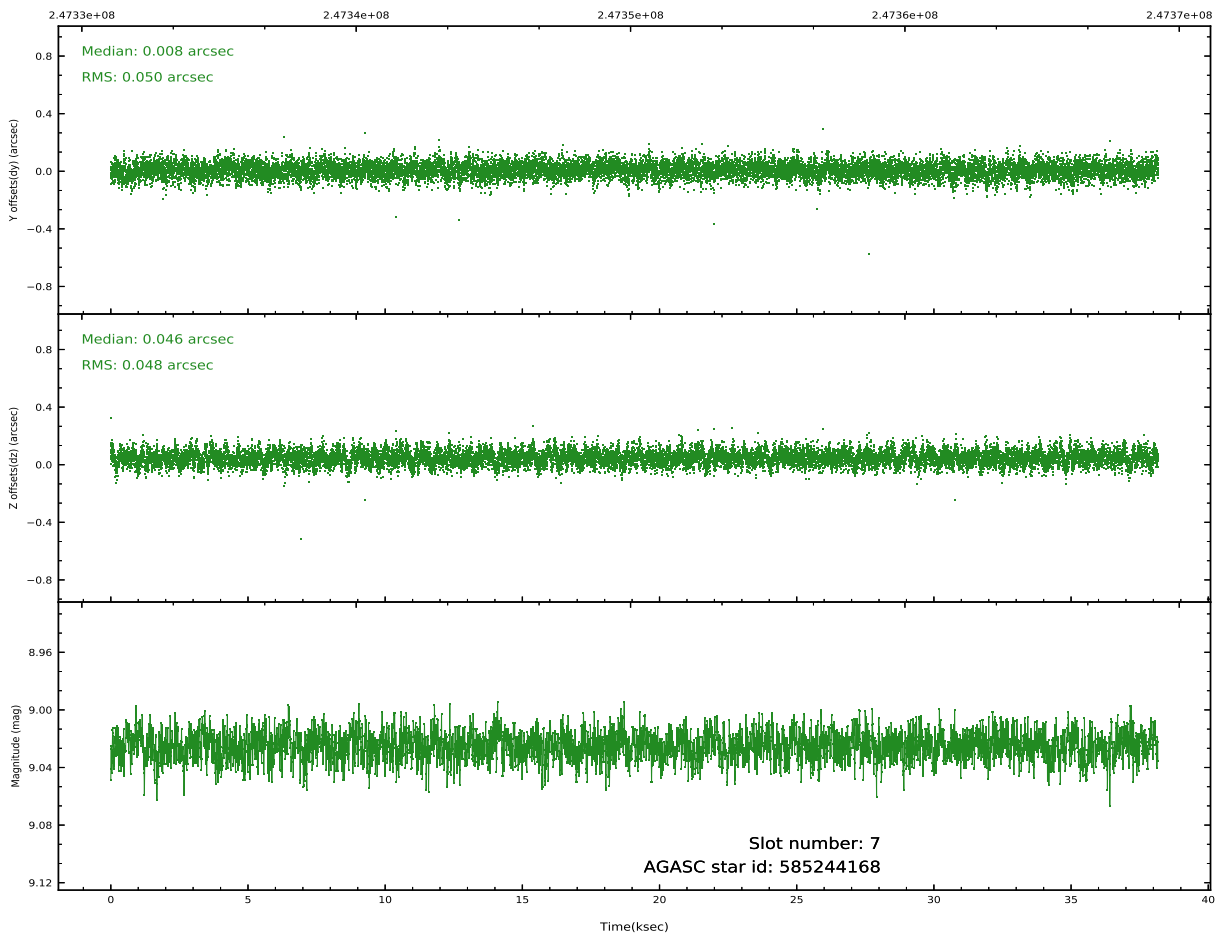
Time (s)



2.4.5 Slot 7

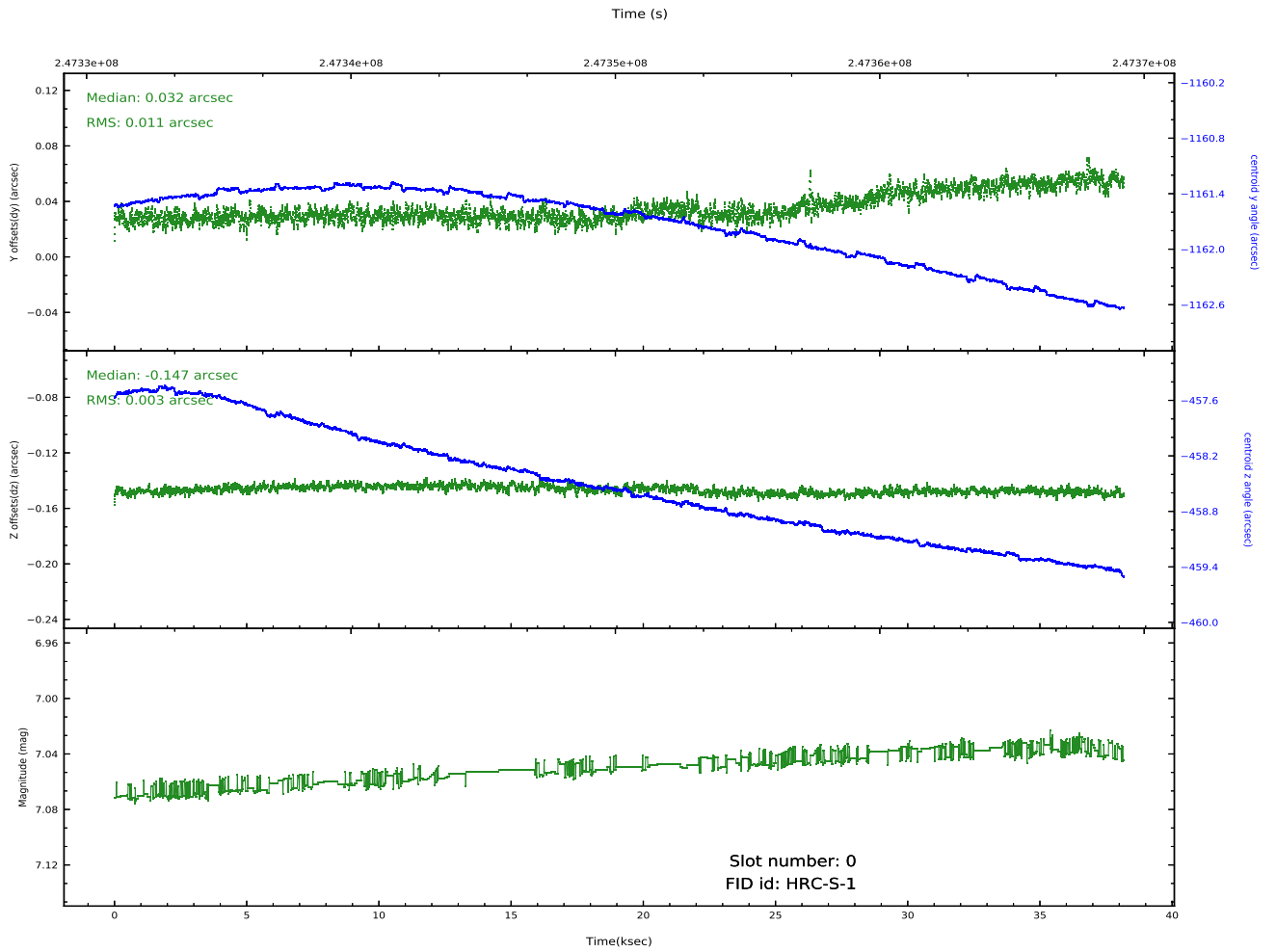
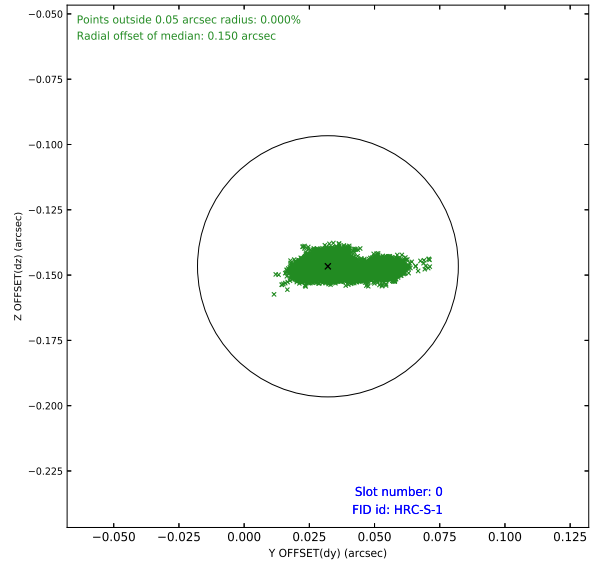
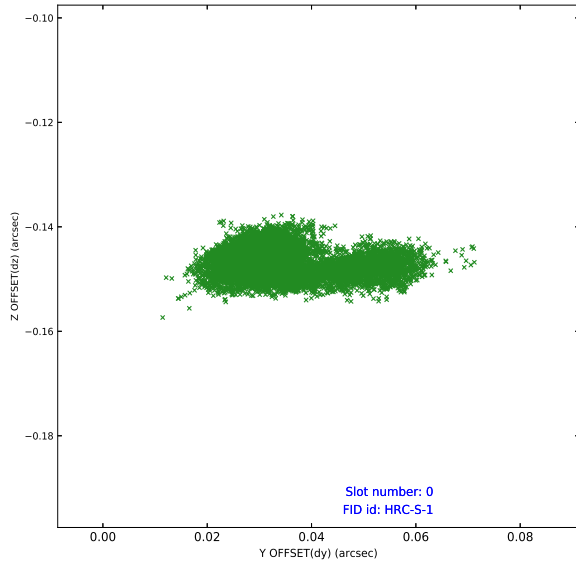


Time (s)

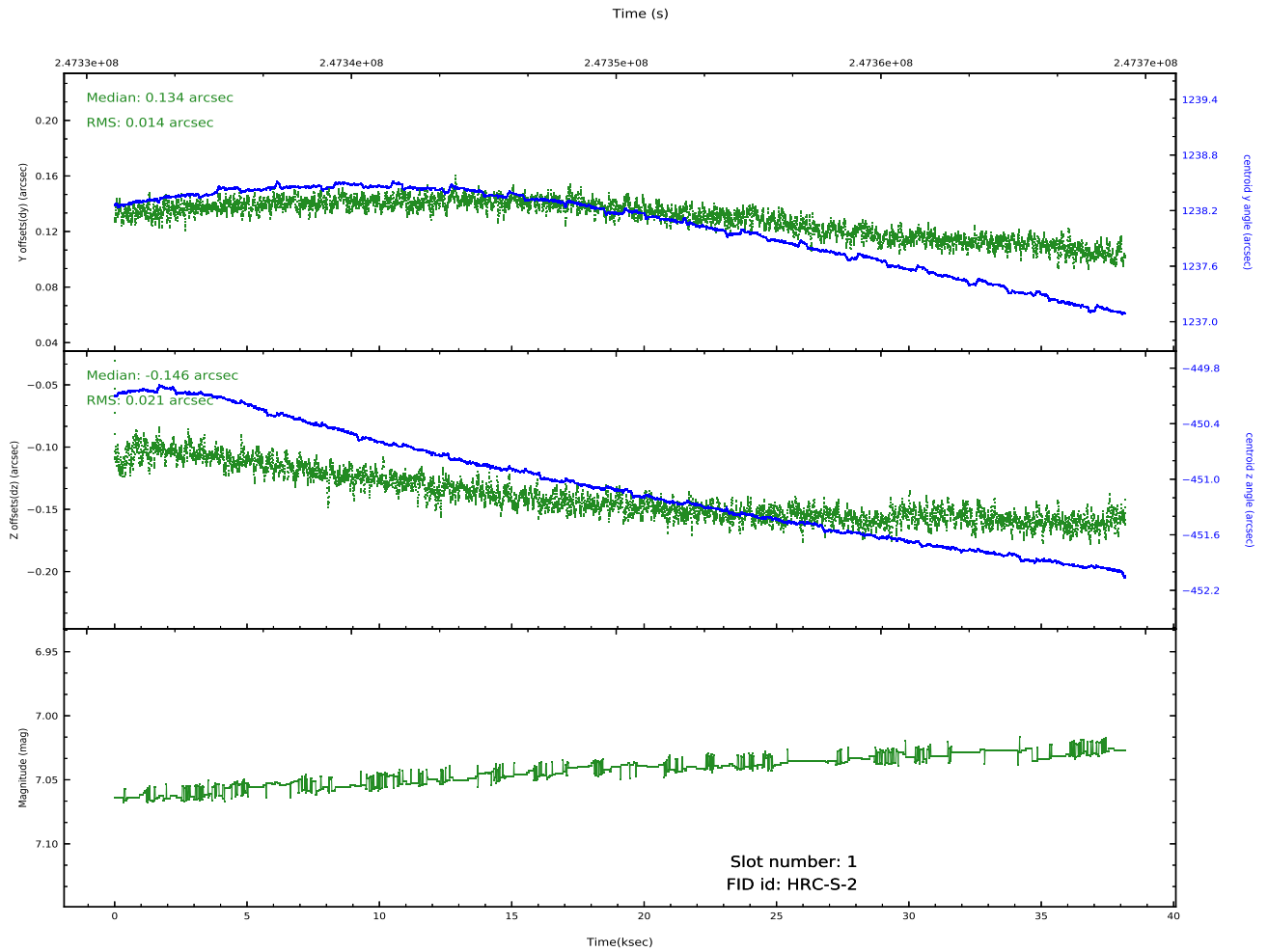
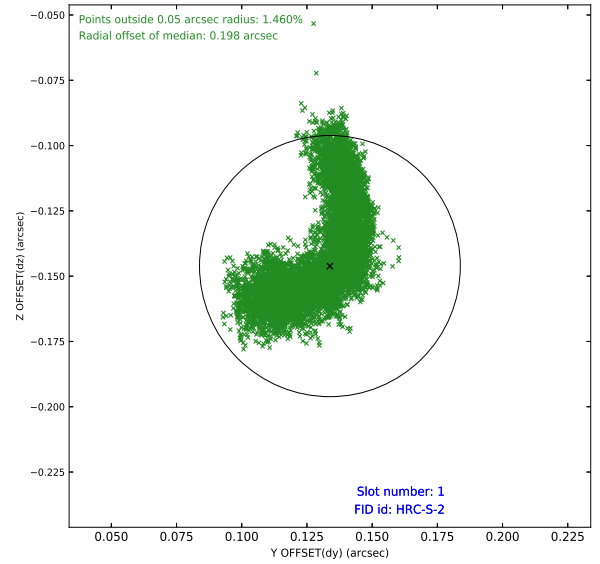
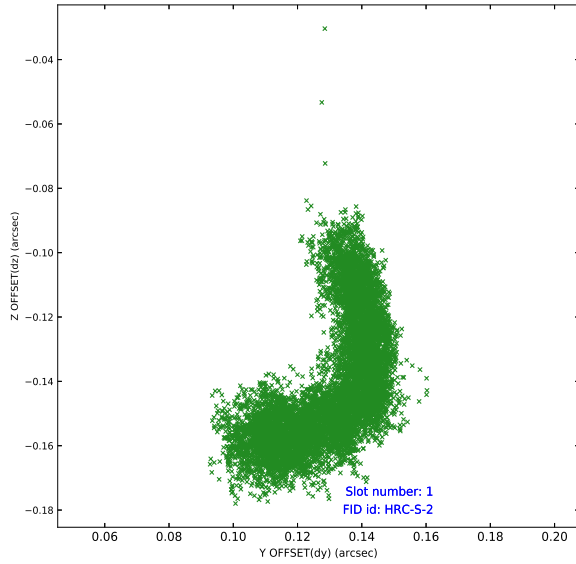


2.5 FID Slots

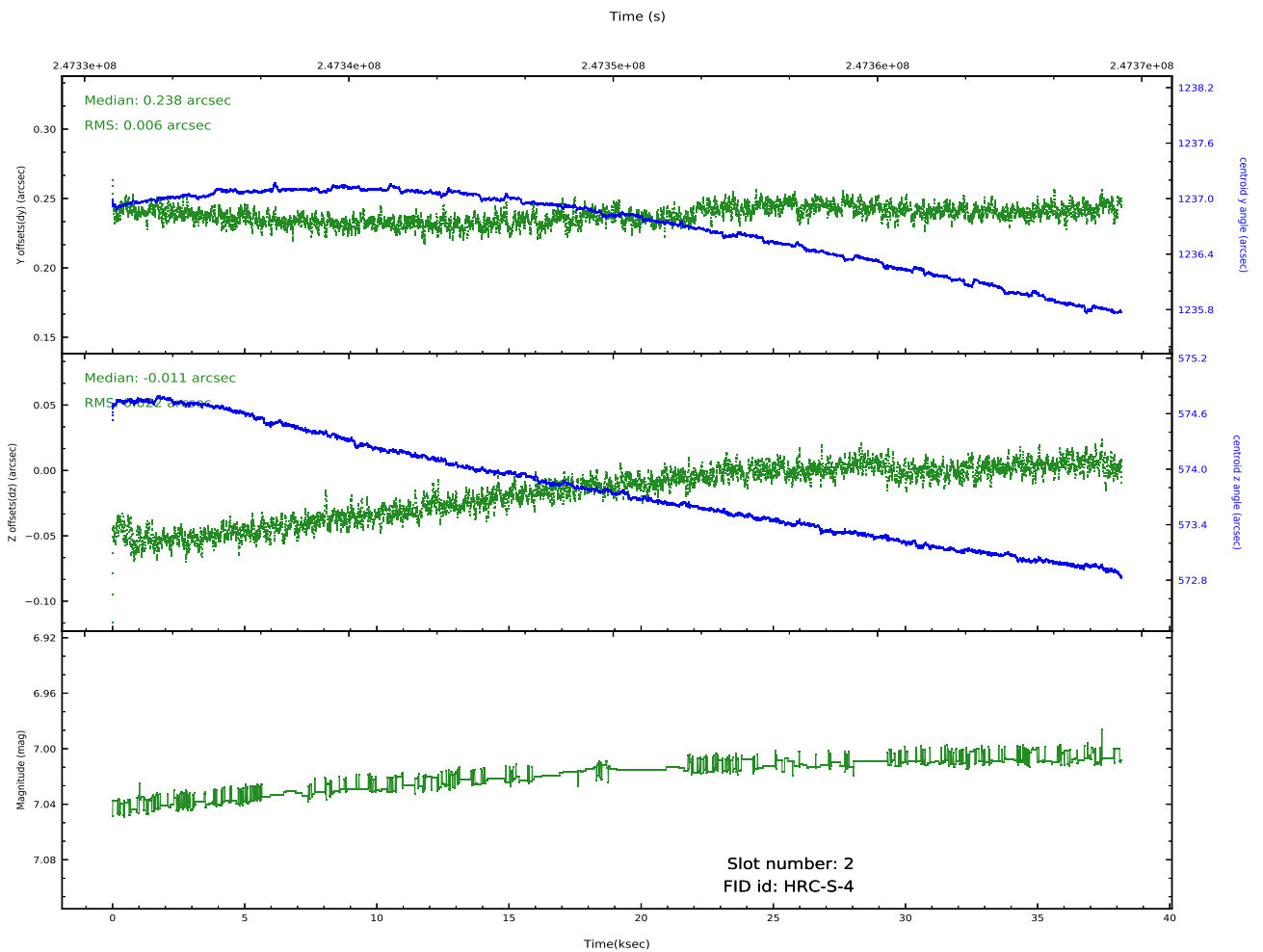
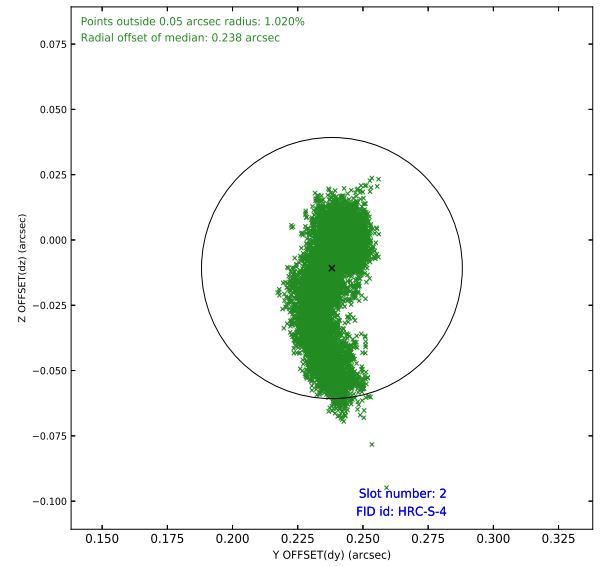
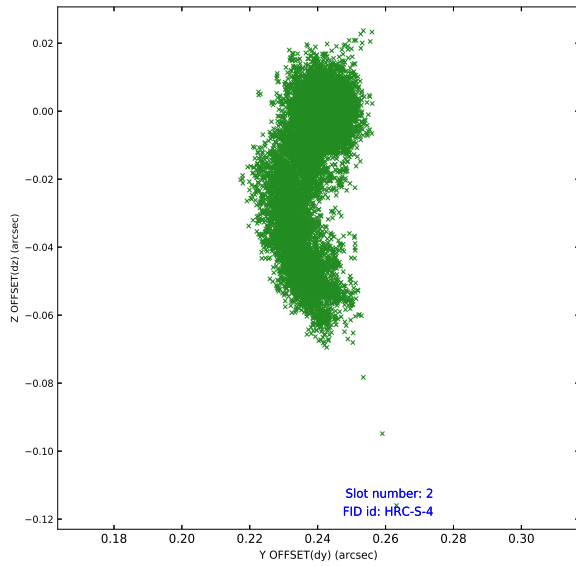
2.5.1 Slot 0



2.5.2 Slot 1

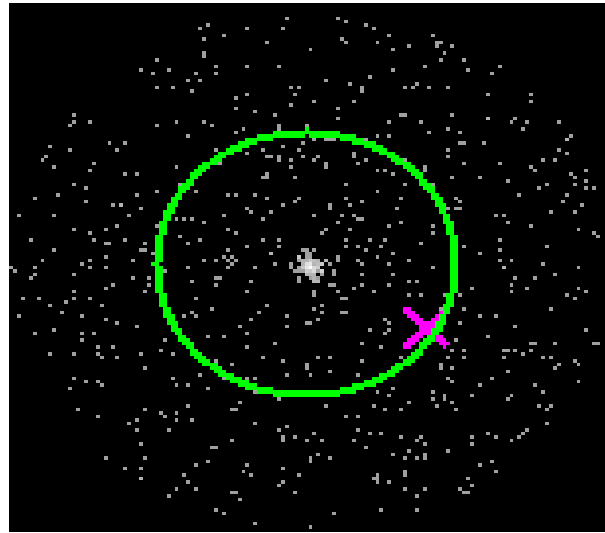


2.5.3 Slot 2

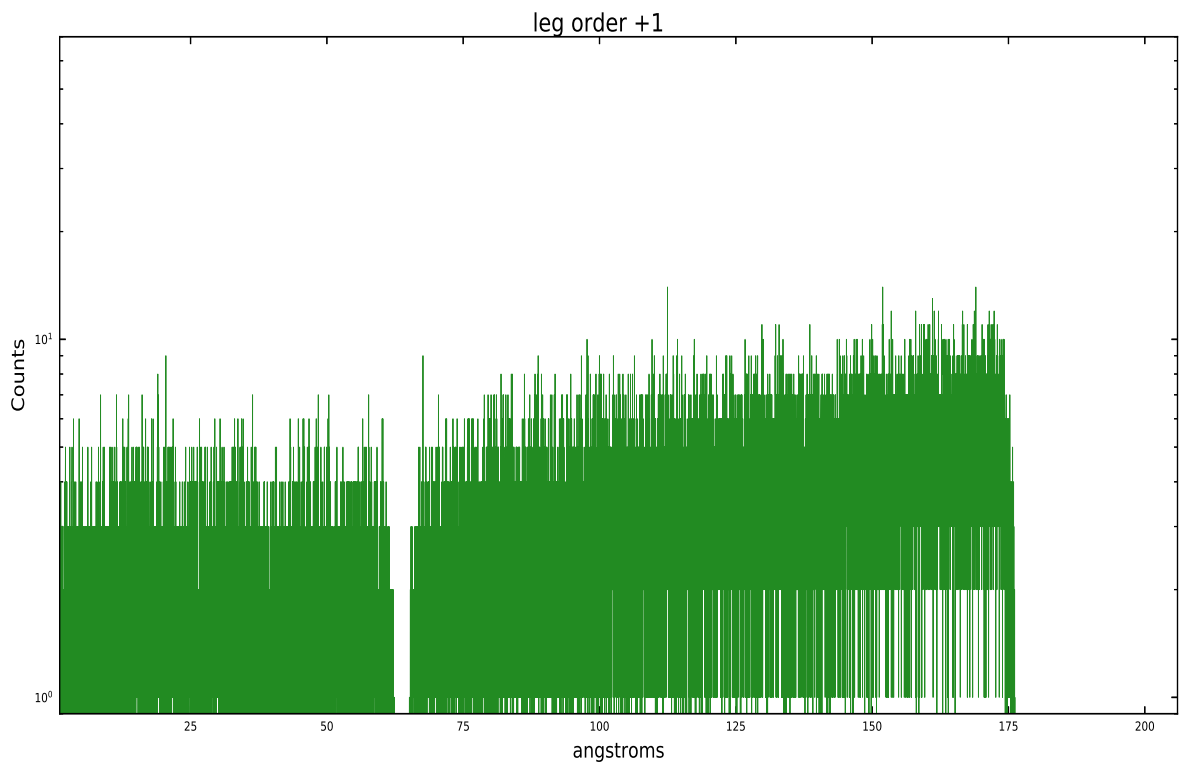
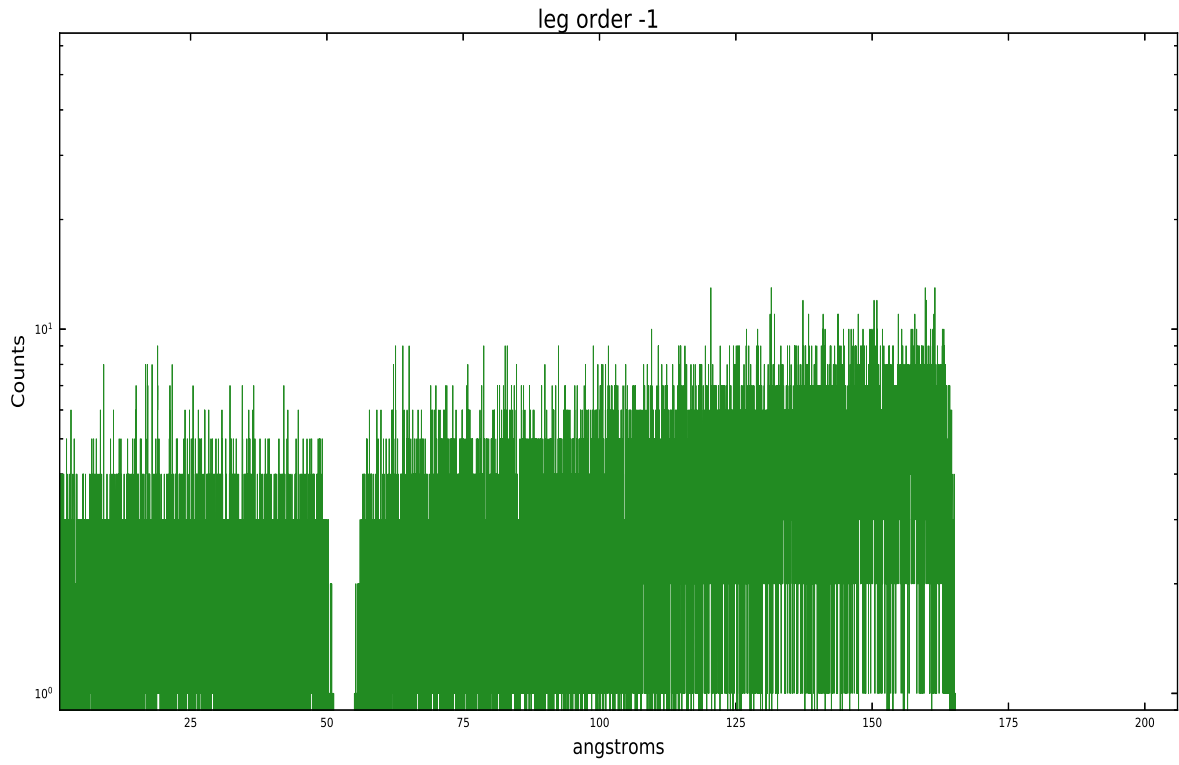


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.17433

A.2 Comments