

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7177 - L2 Version 4
Chandra X-Ray Center

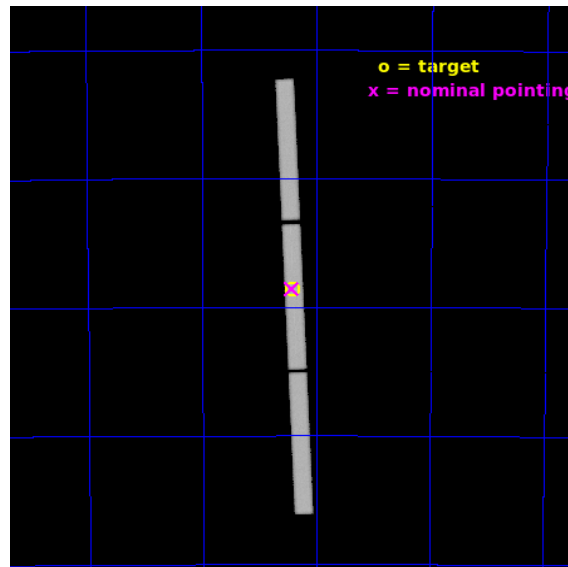
L2 Processing Date : Oct 10 2020

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1 Front

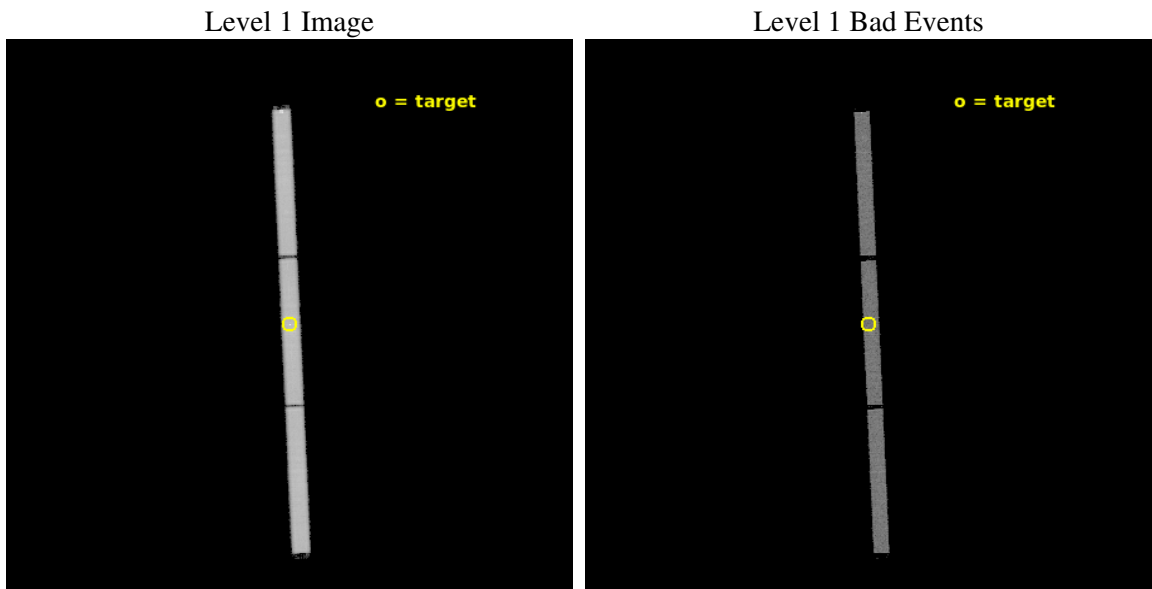
seq_num	500572	Sequence number
obs_id	7177	Observation id
title	Spectra of Neutron Stars with Strongly Magnetized Hydrogen Atmospheres	Proposal title
observer	Prof. Marten van Kerkwijk	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.104167	Observer's specified target RA [deg]
dec_targ	-31.430611	Observer's specified target Dec [deg]
ra_nom	110.10776474659	Nominal RA [deg]
dec_nom	-31.428381170479	Nominal Dec [deg]
roll_nom	87.468281968521	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8043.175370276	[s]
livetime	7983.8126184845	Ontime multiplied by DTCOR
l2events	478327	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	7900.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8043.175370276	[s]
caldsver	4.9.2	 	l1events	850371	Number of level 1 events
date	2020-10-11T01:05:12	Date and time of file creation	tgmeth	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32855.56, 32709.63)	src1a sky pixel position

2.1.3 Events

Level 1 Events

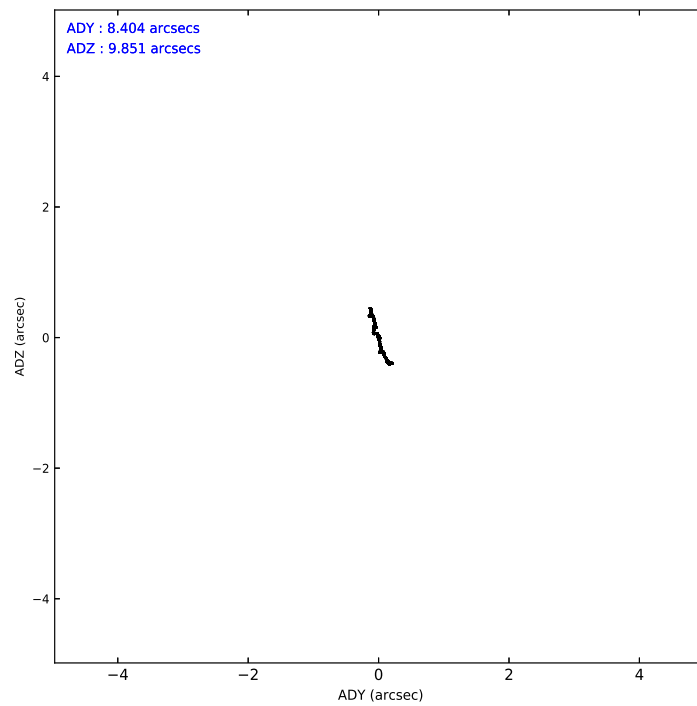
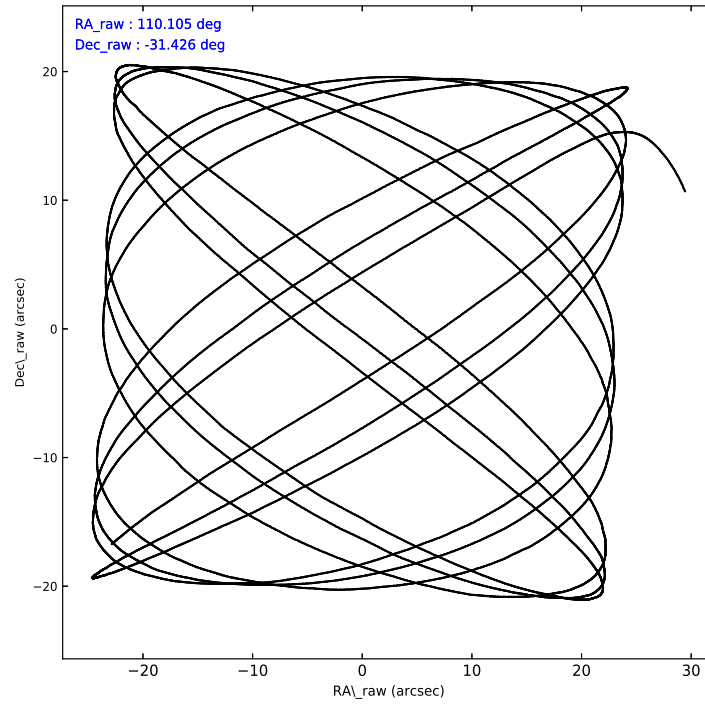
	segment 1	segment 2	segment 3
level 1 events	285059	278834	286478
rejected events	67178	64670	66868
rejected %	23%	23%	23%

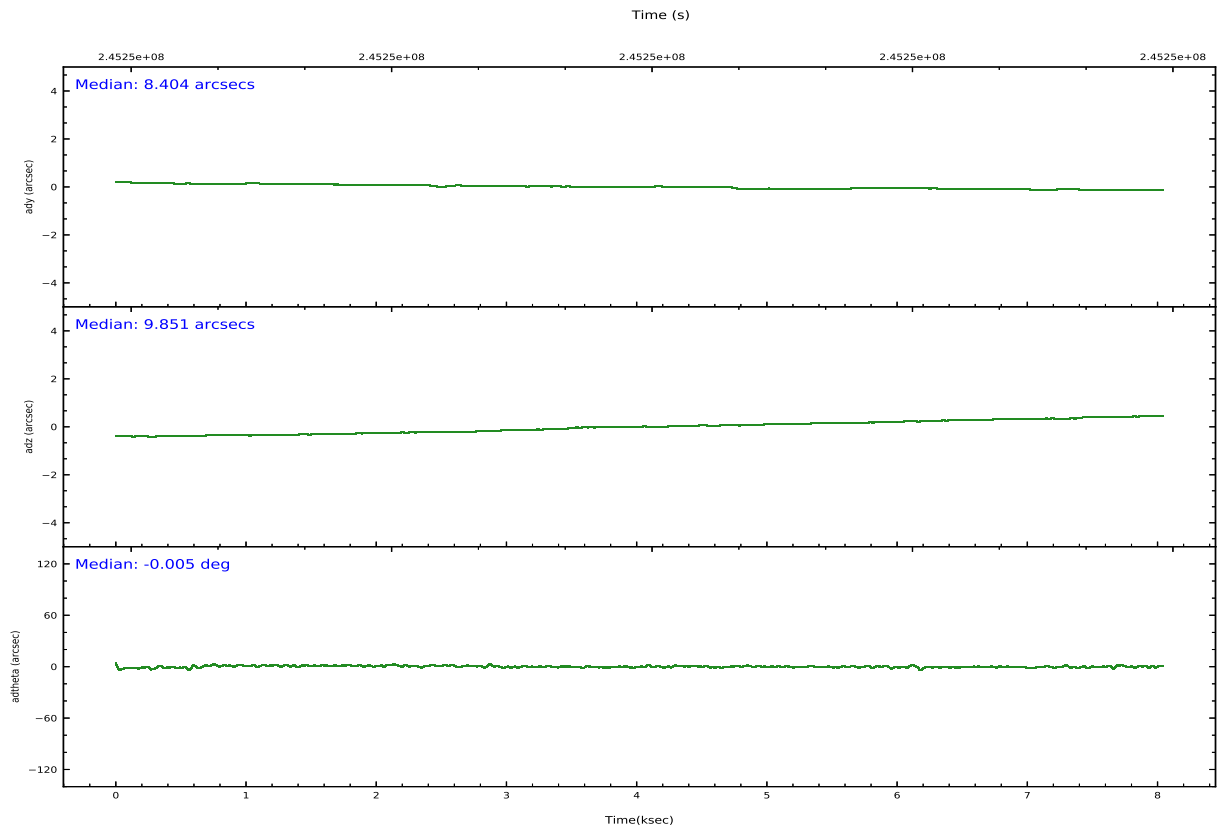
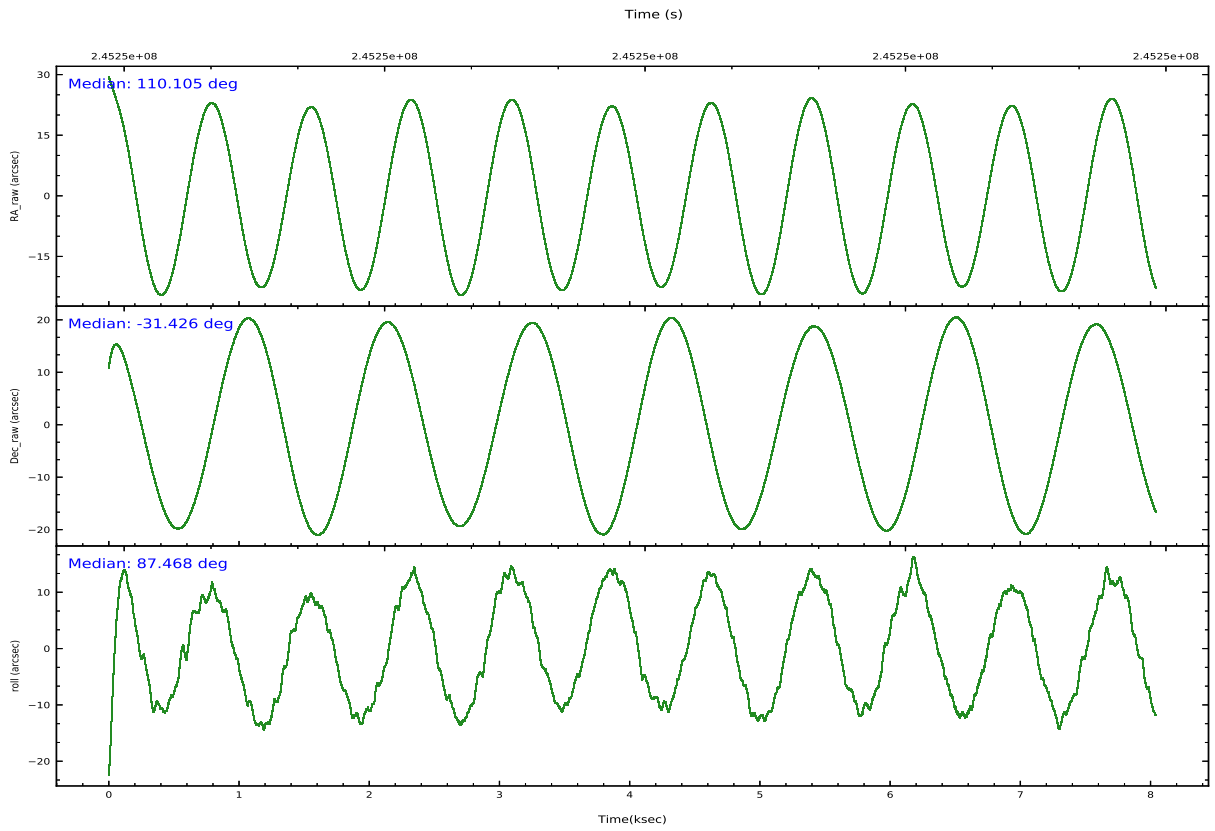
2.2 Compared Parameters

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	110.121484	110.10776474659
[deg] Pointing Dec	-31.450635	-31.428381170479
[deg] Pointing Roll	87.409035	87.468281968521
[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)	245246024.184000	245244173.12019
Observation start date	2005-10-09T11:52:40	2005-10-09T11:22:53
[s] Observation end time (MET)	245253924.184000	245254576.87067
Observation end date	2005-10-09T14:04:20	2005-10-09T14:16:16

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

2.3 Aspect





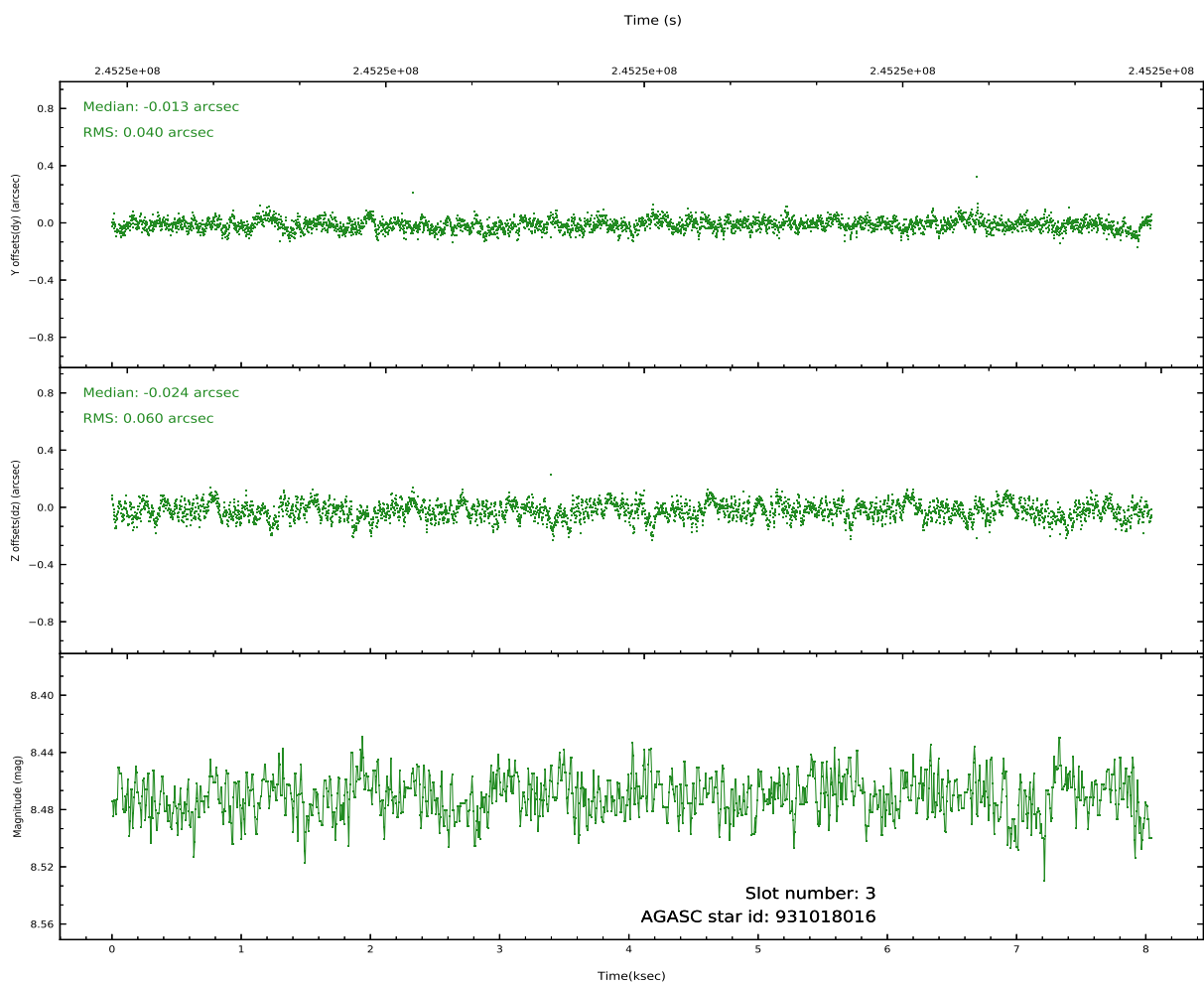
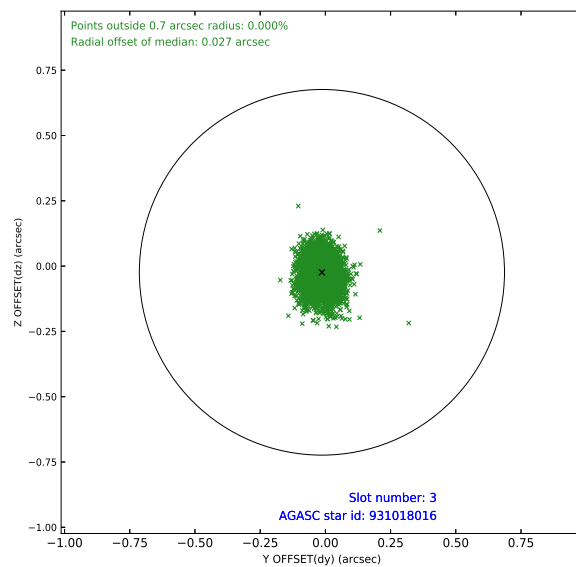
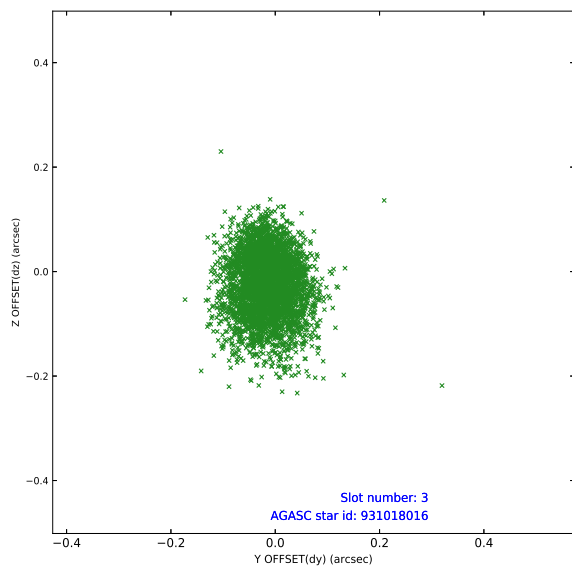
Slot Statistics

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	7.01	1961	1.000	0.057	-0.148	0.005	0.008	0.000000	0.000000	-1162.66	-458
1	FID		HRC-S-2	7.01	1962	1.000	0.104	-0.102	0.014	0.023	0.000000	0.000000	1236.48	-451
2	FID		HRC-S-4	7.00	1961	1.000	0.242	-0.053	0.013	0.021	0.000000	0.000000	1236.40	573
3	GUIDE	used	931018016	8.47	3924	1.000	-0.013	-0.024	0.076	0.125	109.684535	-31.226562	742.17	1380
4	GUIDE	used	931025288	8.46	3923	1.000	0.020	-0.037	0.064	0.101	109.511084	-30.937793	1754.03	1966
5	GUIDE	used	931695048	7.37	3924	1.000	-0.037	0.088	0.062	0.096	110.648539	-32.046020	-2071.93	-1703
6	GUIDE	used	931012368	8.77	3925	1.000	0.089	-0.182	0.084	0.132	109.359817	-31.783345	-1310.68	2273
7	GUIDE	used	931160352	8.65	3923	1.000	-0.061	0.158	0.072	0.119	110.268138	-30.864891	2126.42	-356

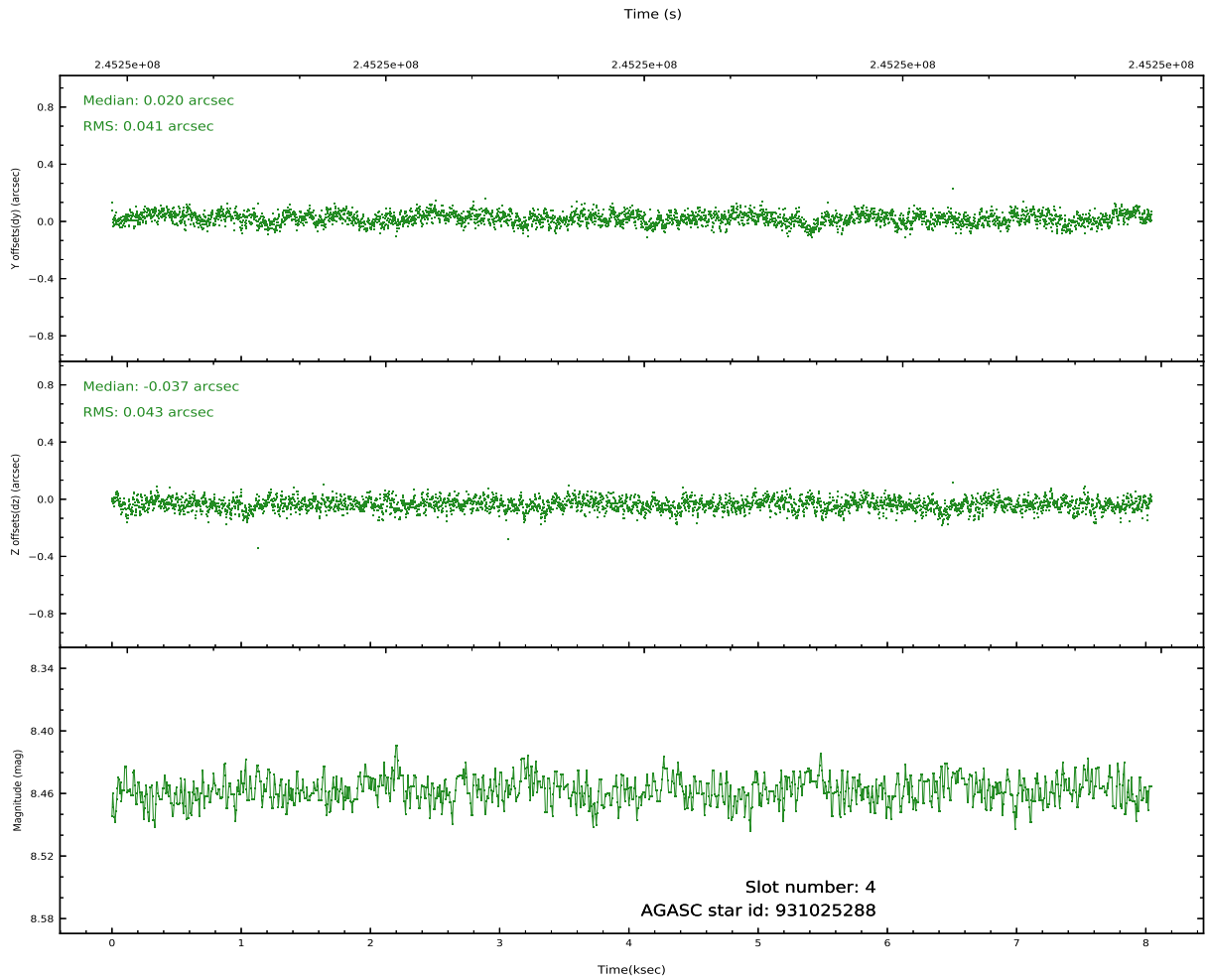
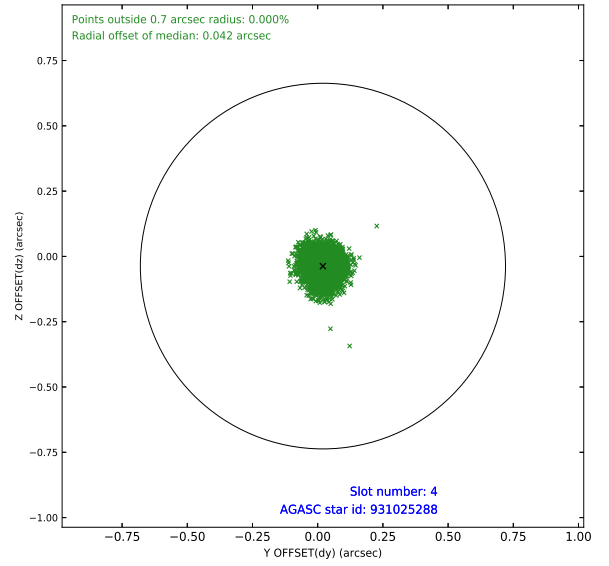
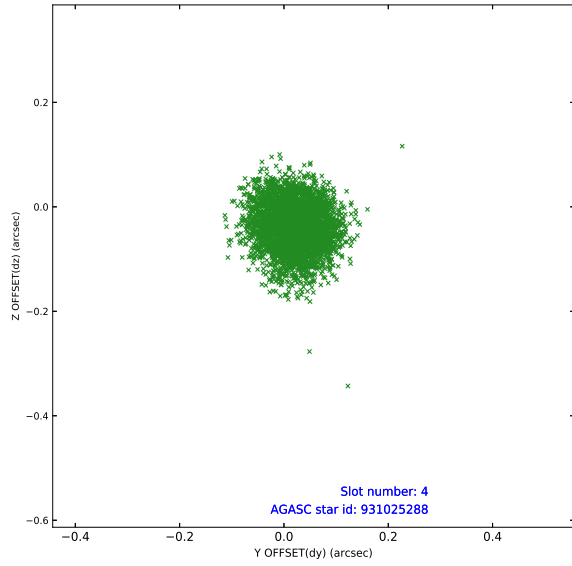
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2.4 Star Slots

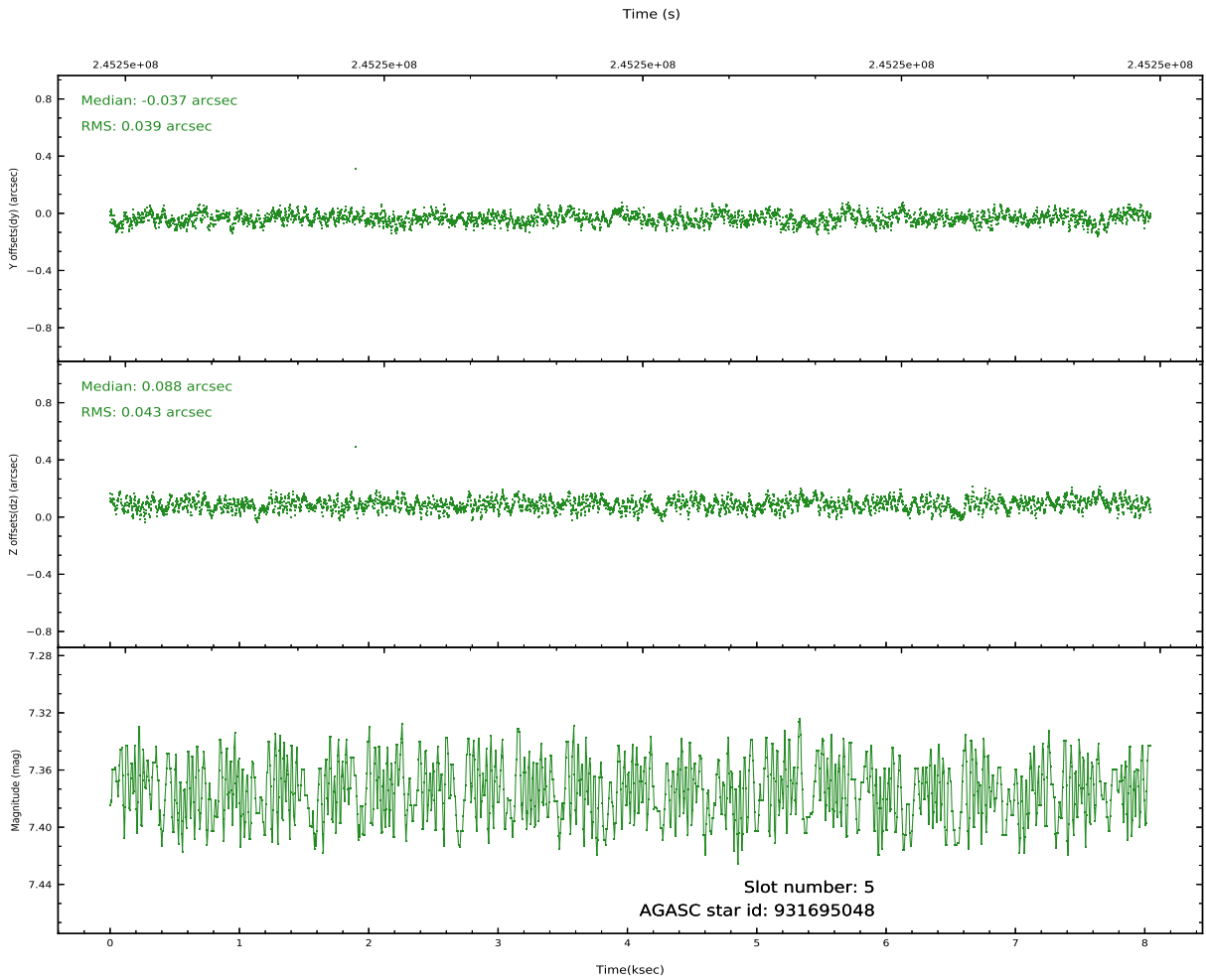
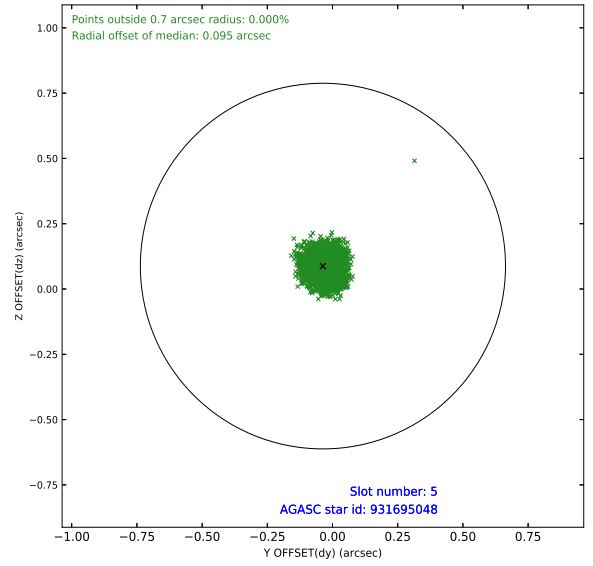
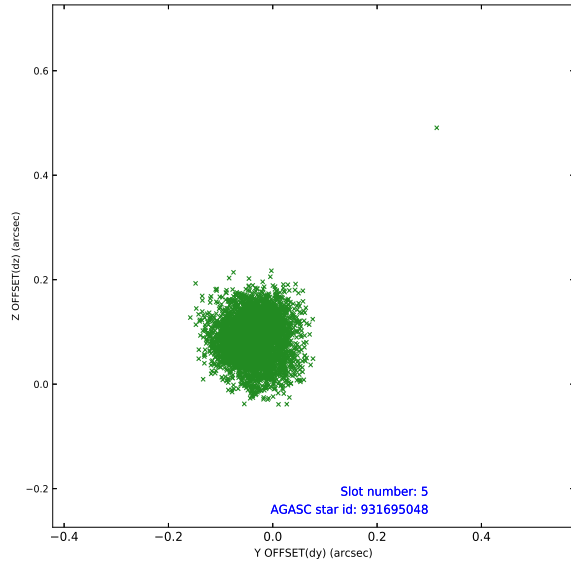
2.4.1 Slot 3



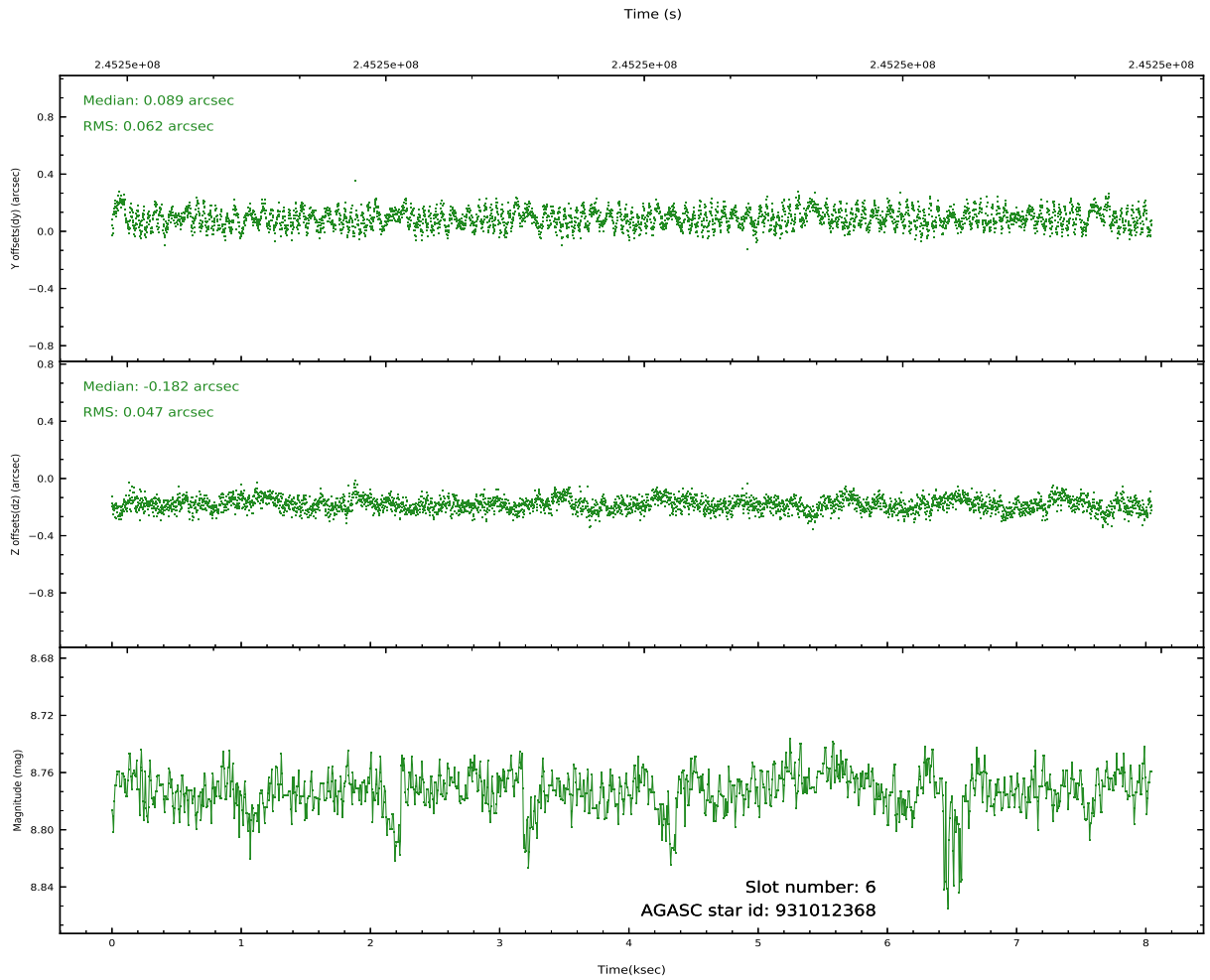
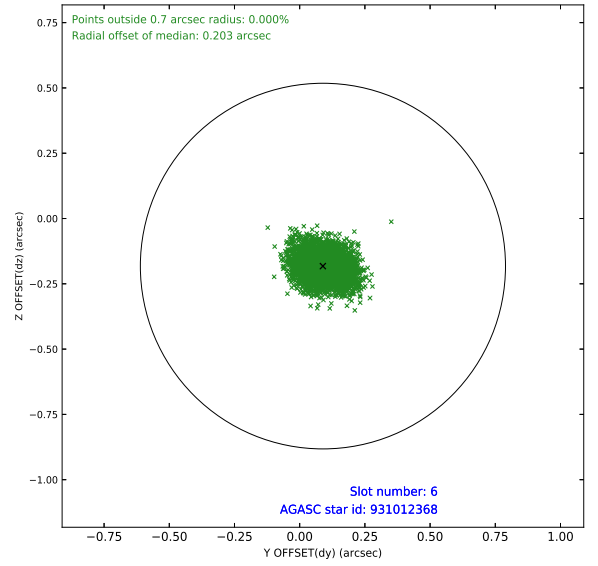
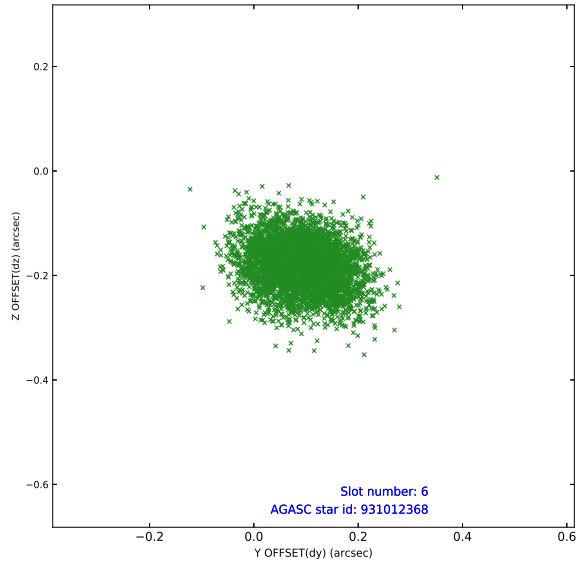
2.4.2 Slot 4



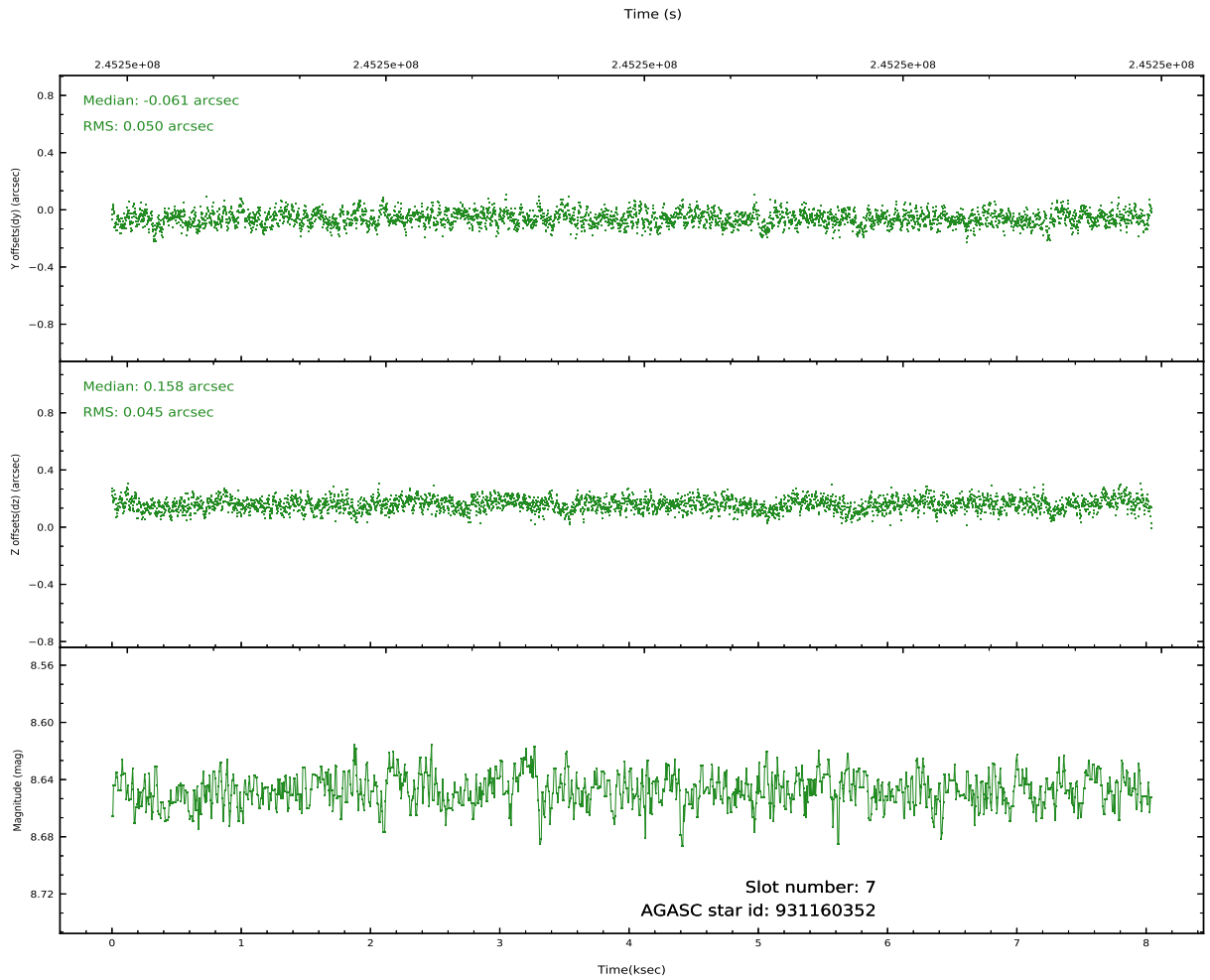
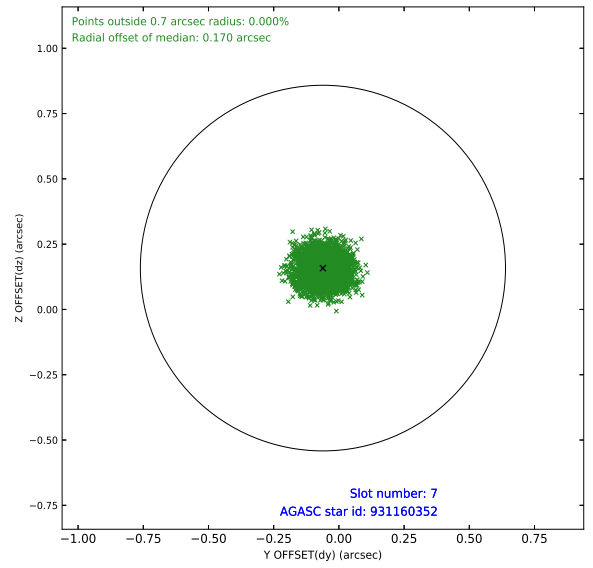
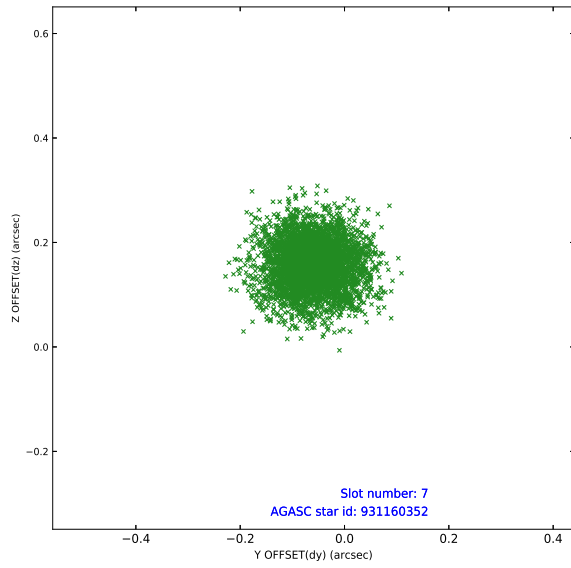
2.4.3 Slot 5



2.4.4 Slot 6

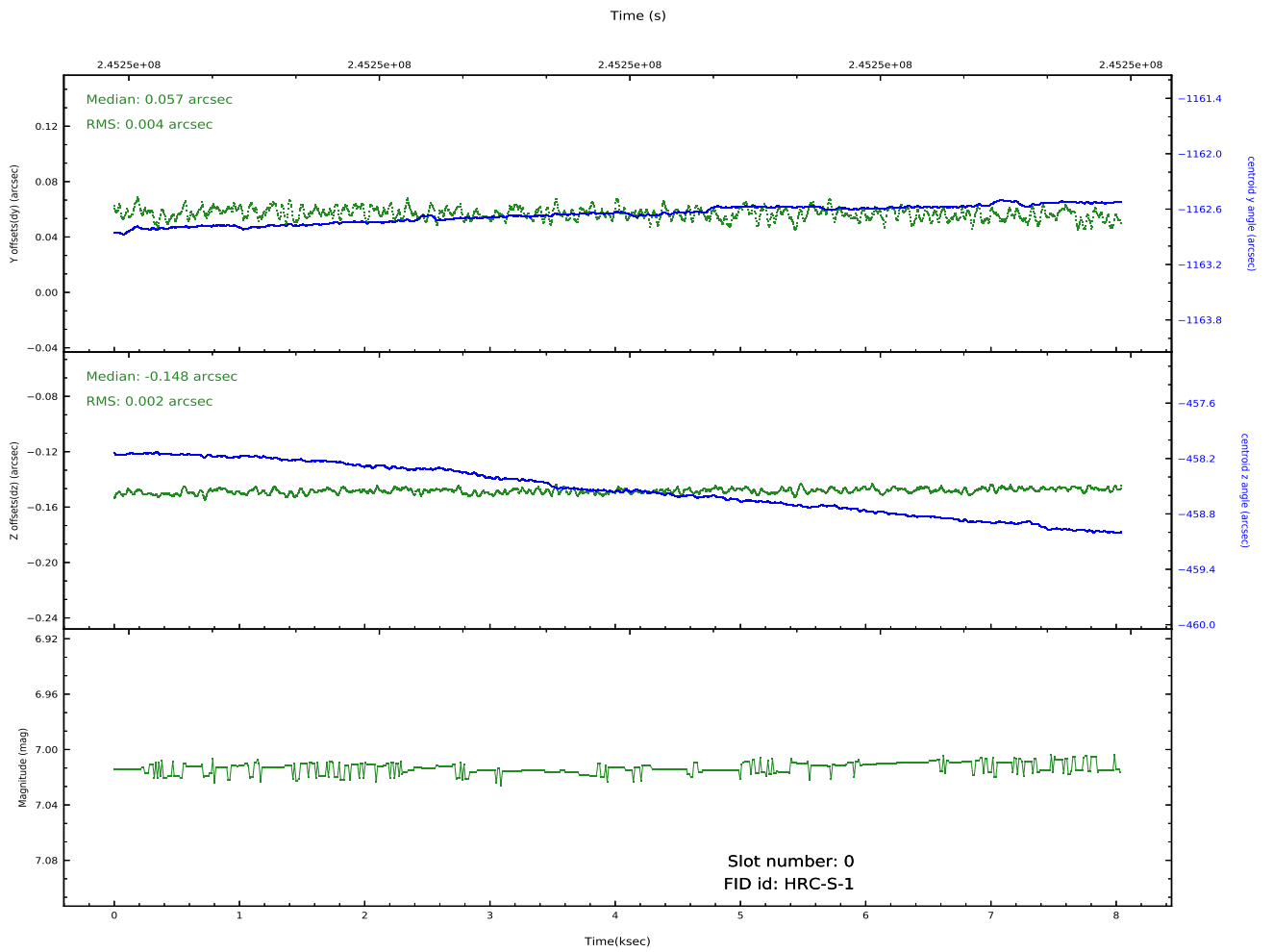
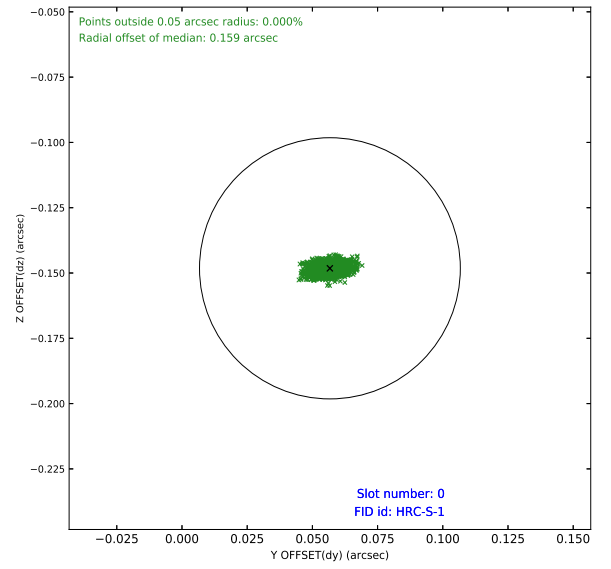
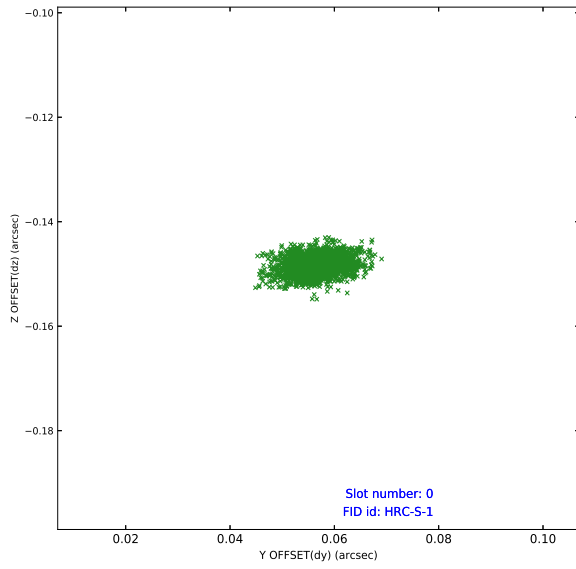


2.4.5 Slot 7

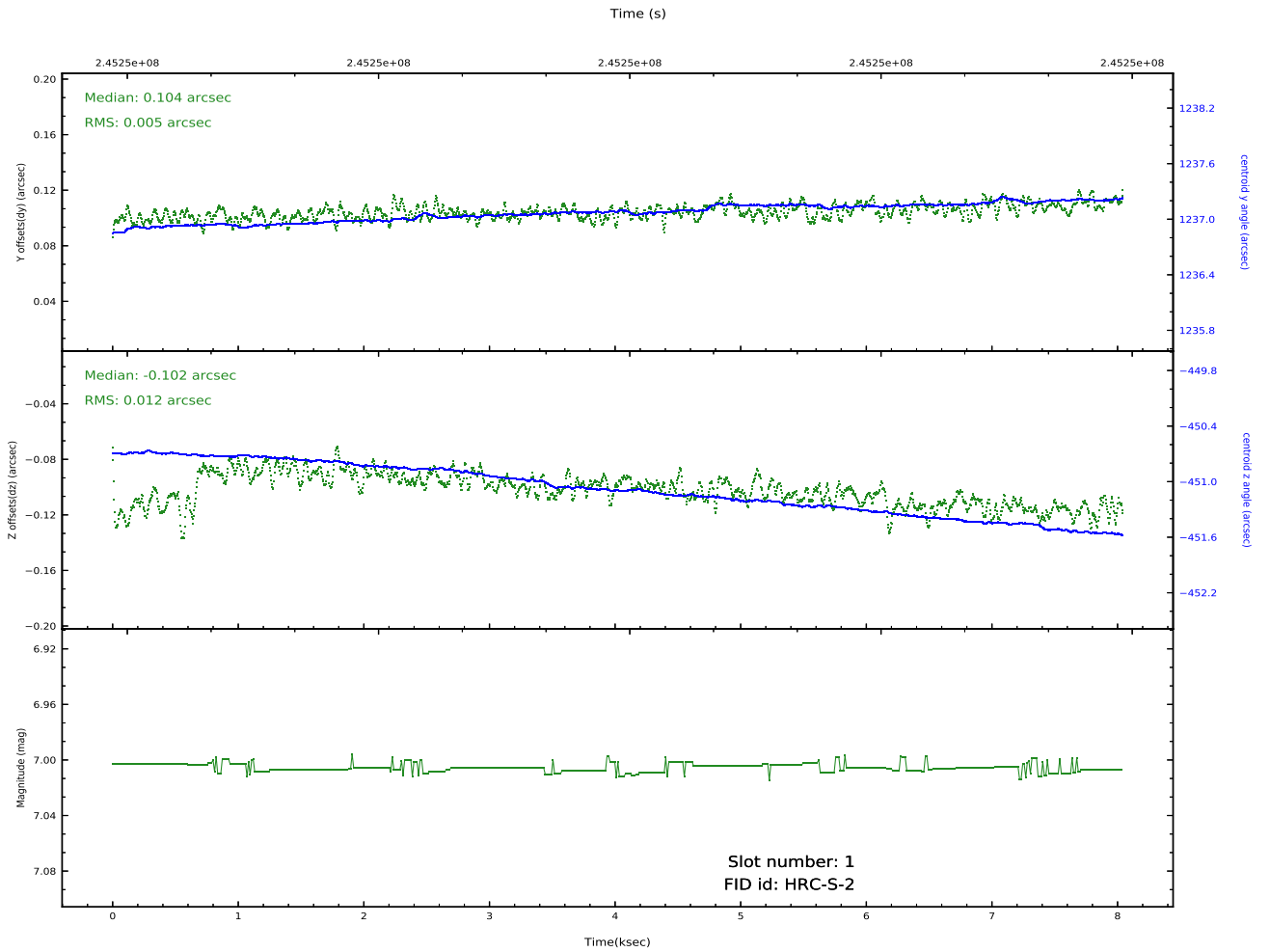
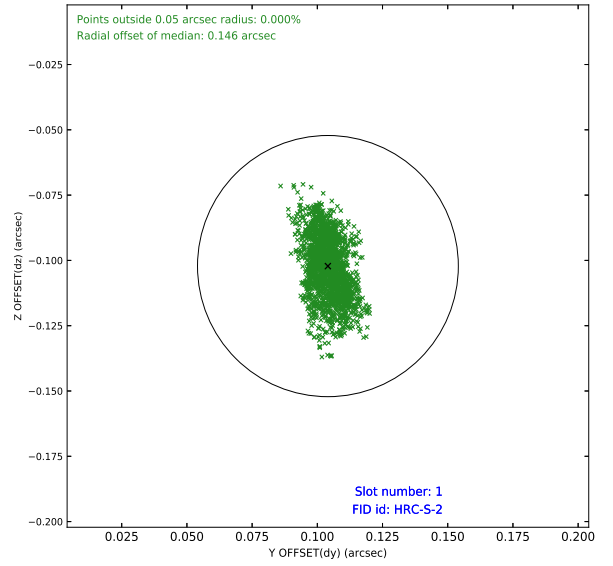
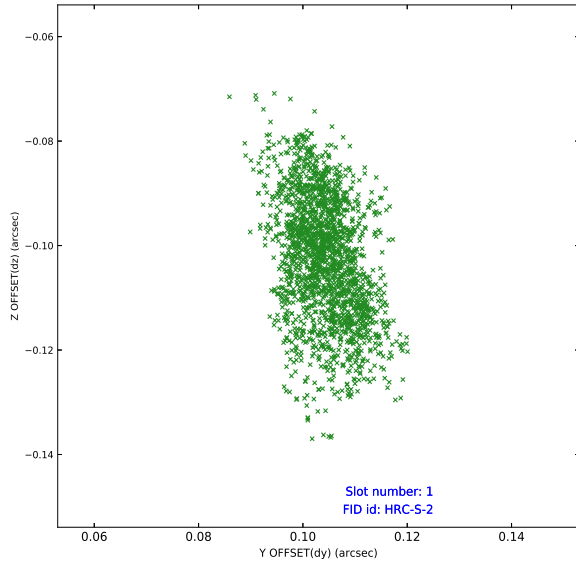


2.5 FID Slots

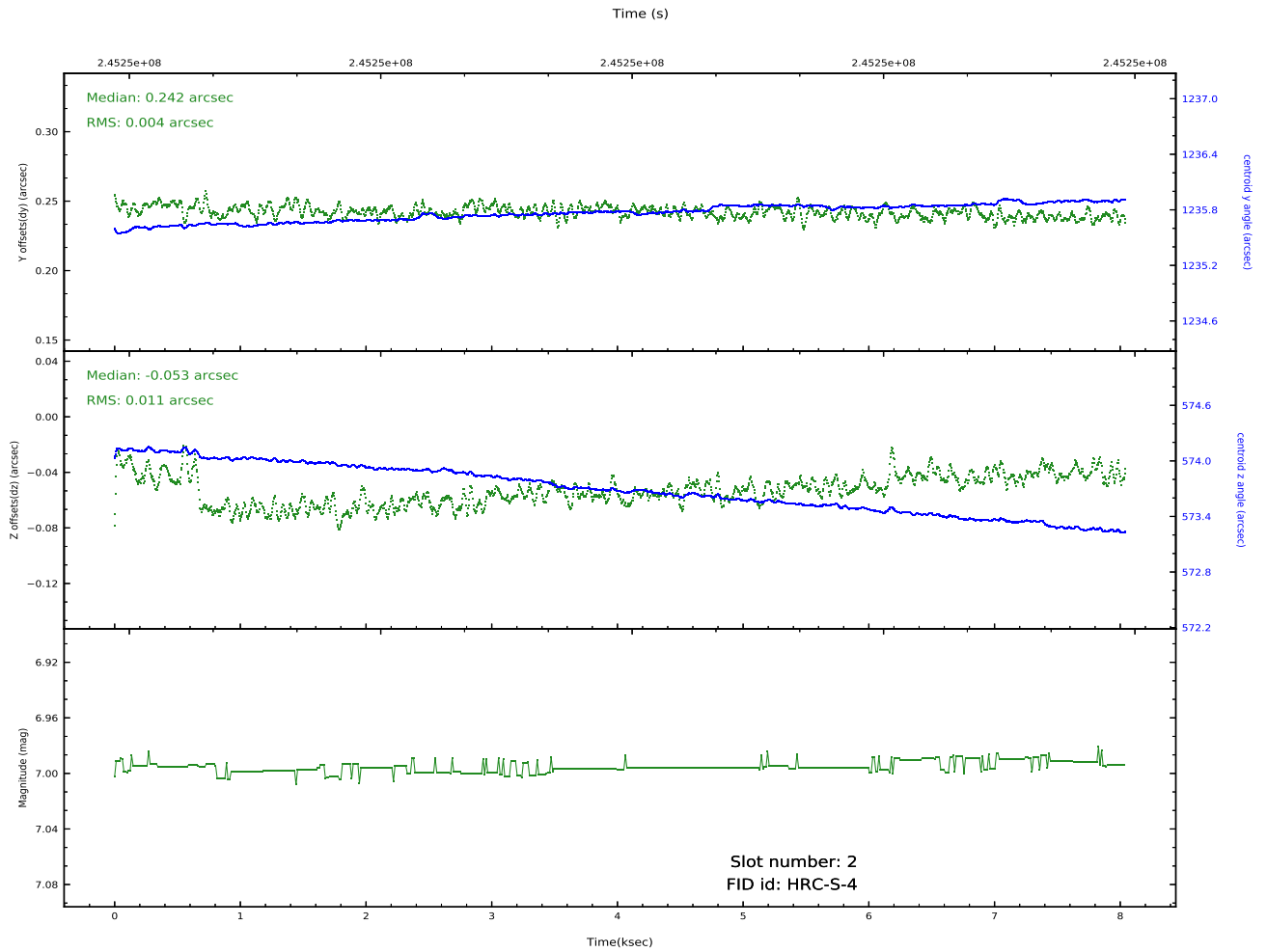
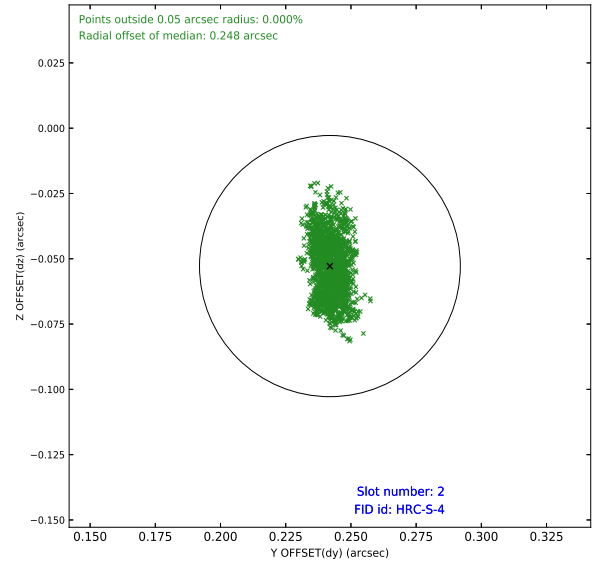
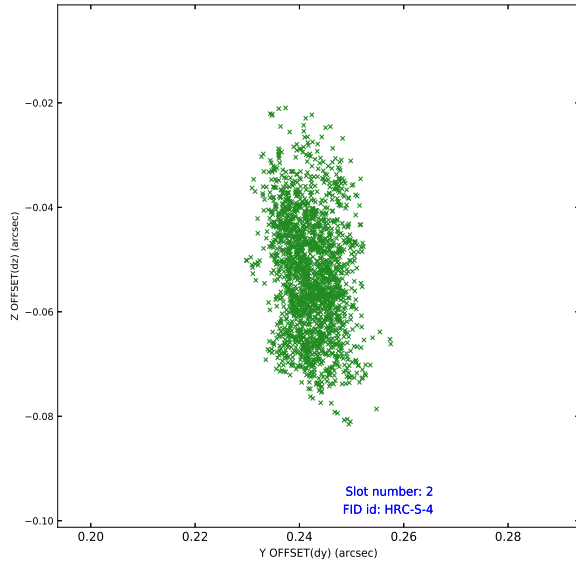
2.5.1 Slot 0



2.5.2 Slot 1

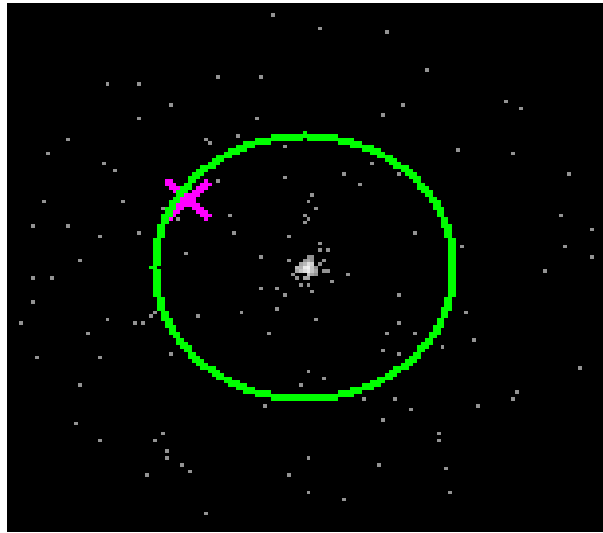


2.5.3 Slot 2

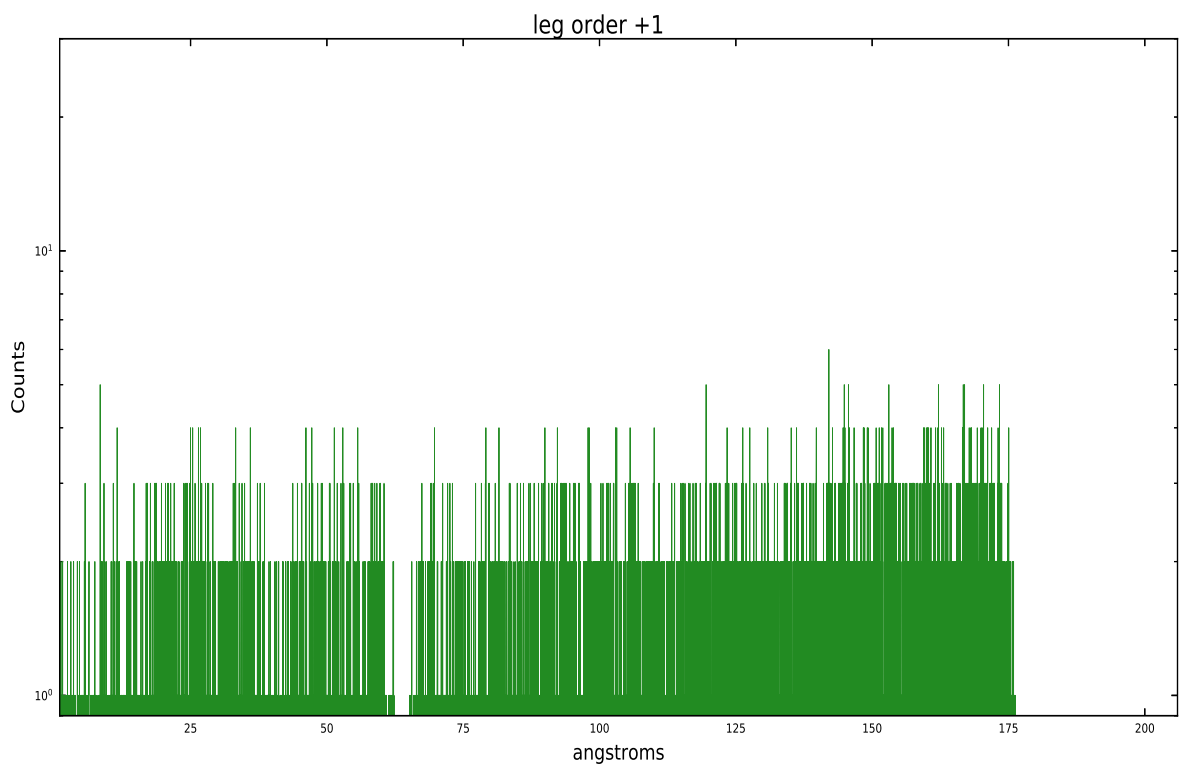
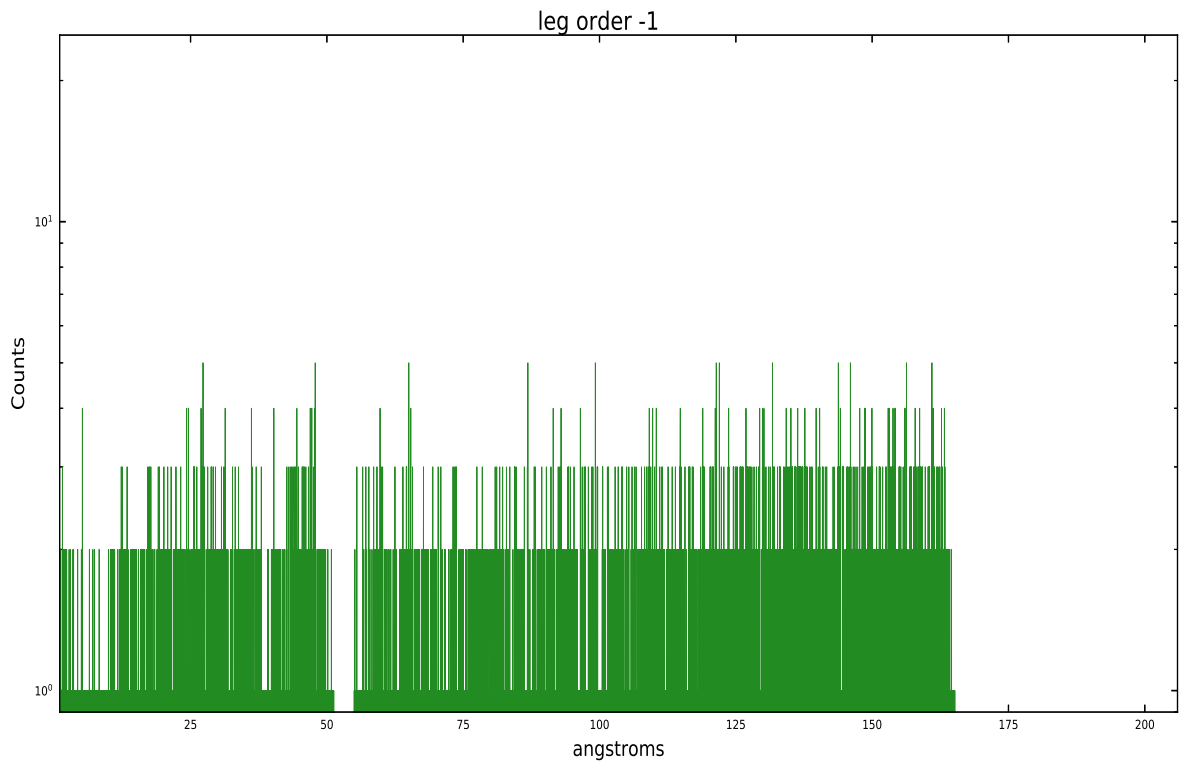


3 Gratings

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	8.043431

A.2 Comments