

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20958 - L2 Version 1
Chandra X-Ray Center

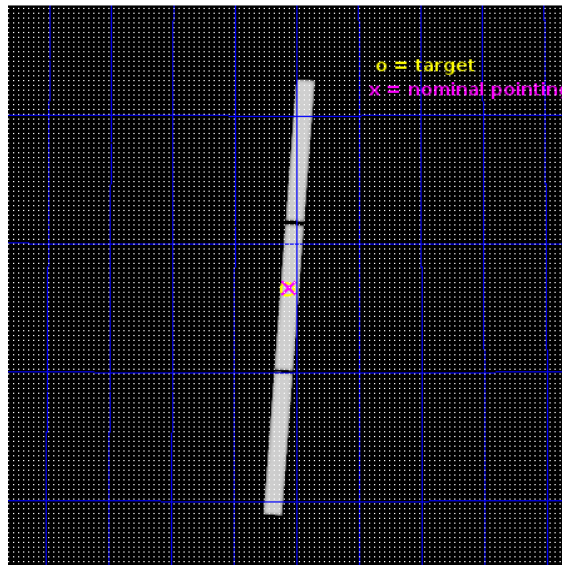
L2 Processing Date : Feb 5 2018

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1 Front

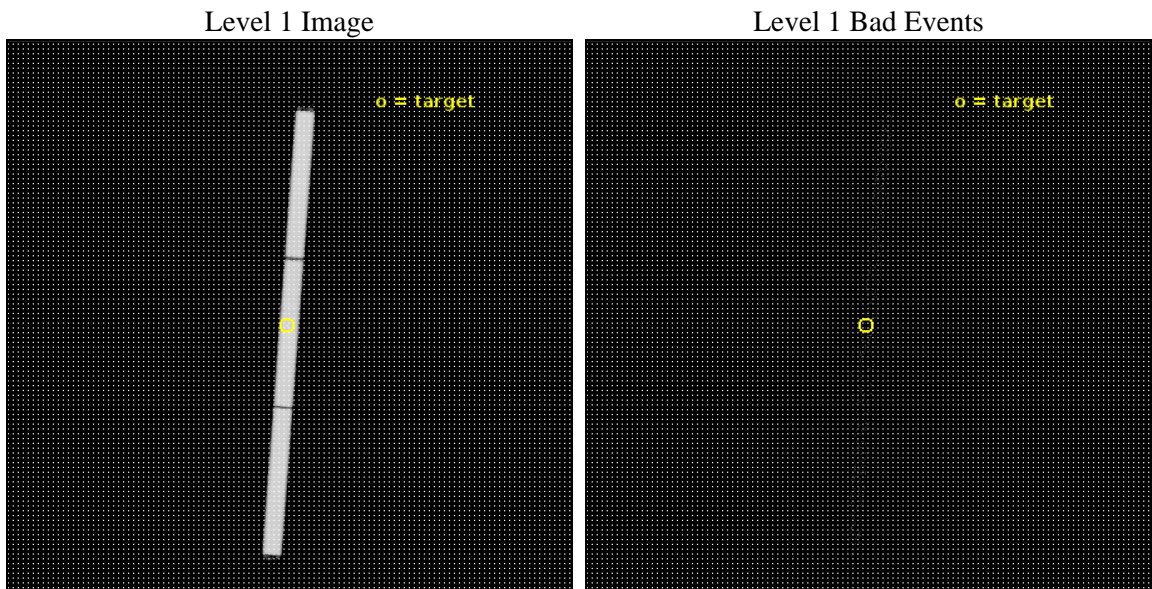
seq_num	703315	Sequence number
obs_id	20958	Observation id
title	Chandra observations of a unique X-ray WHIM absorber towards PG 1116+215	Proposal title
observer	Massimiliano Bonamente	Principal investigator
object	PG 1116+215	Source name
ra_targ	169.78625	Observer's specified target RA [deg]
dec_targ	21.321667	Observer's specified target Dec [deg]
ra_nom	169.77865103419	Nominal RA [deg]
dec_nom	21.330160558651	Nominal Dec [deg]
roll_nom	94.070137013629	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33153.498829365	[s]
livetime	32837.765251291	Ontime multiplied by DTCOR
l2events	2845554	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	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	33153.626953244	[s]
caldsver	4.7.7	 	l1events	3598760	Number of level 1 events
date	2018-02-05T20:01:27	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32571.94, 32531.75)	src1a sky pixel position

2.1.3 Events

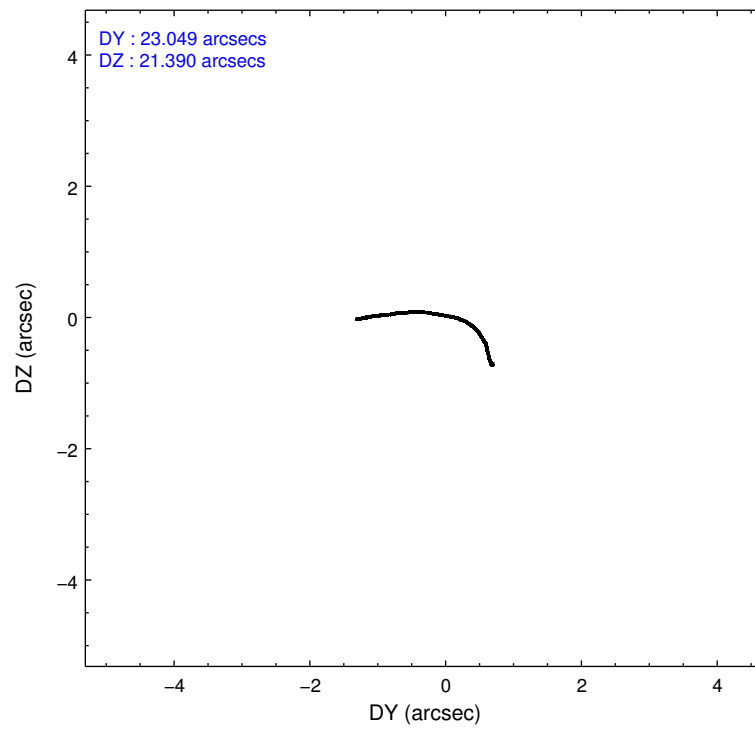
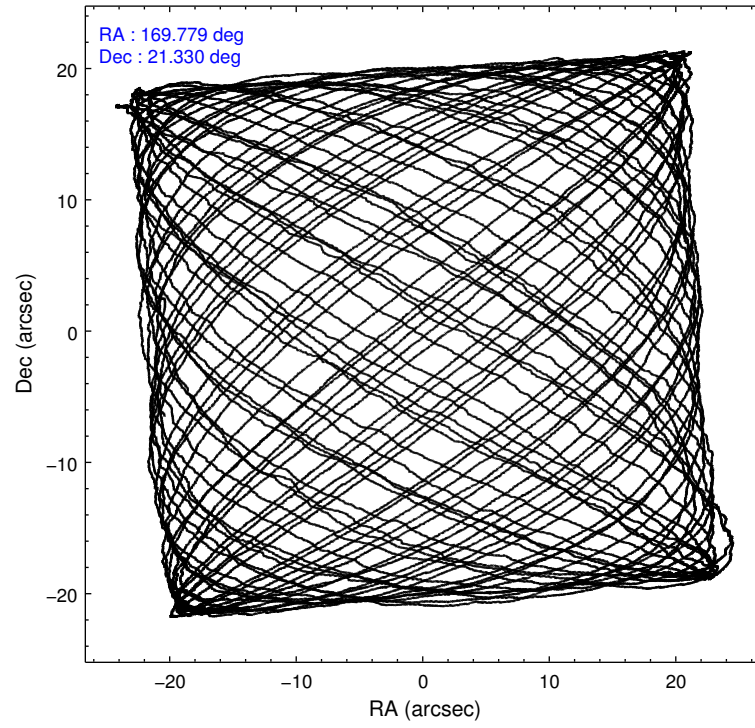
Level 1 Events

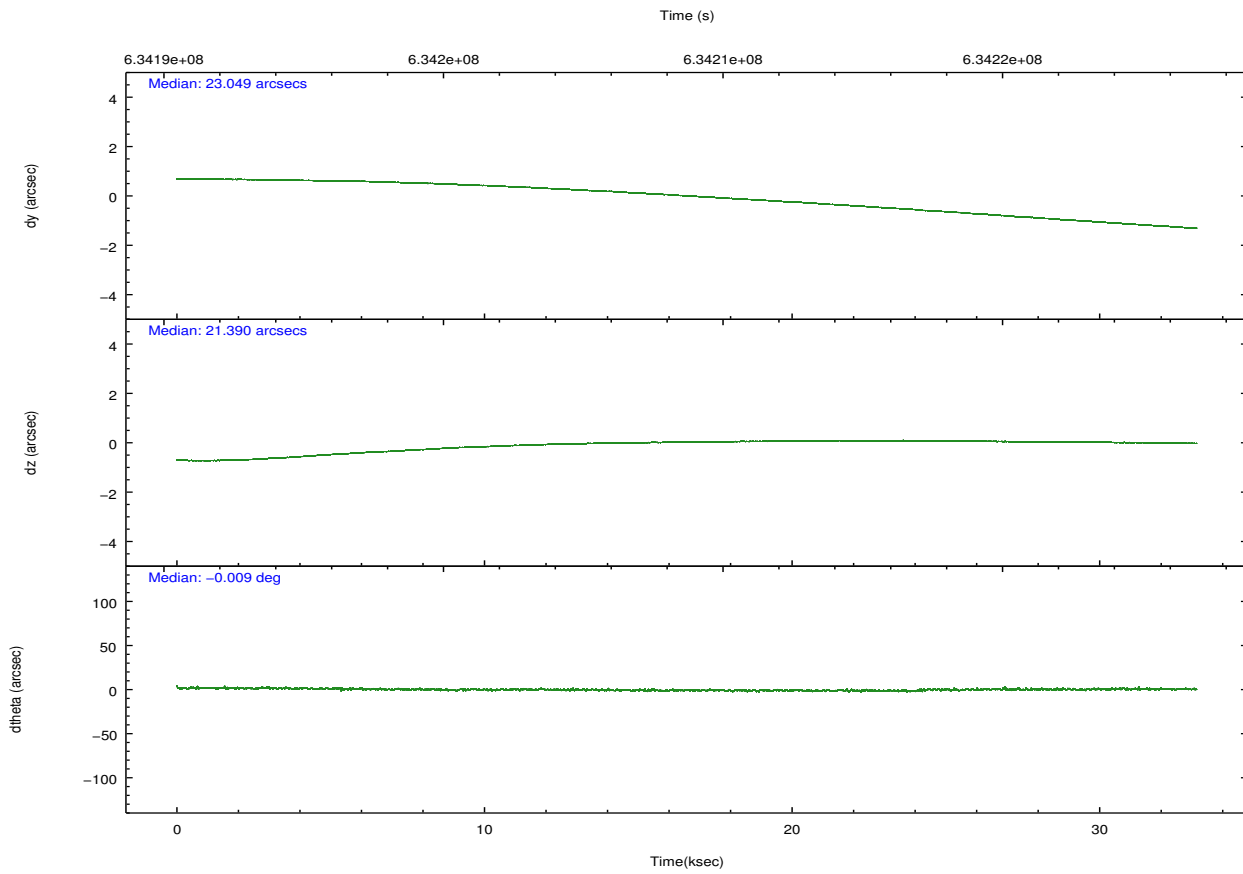
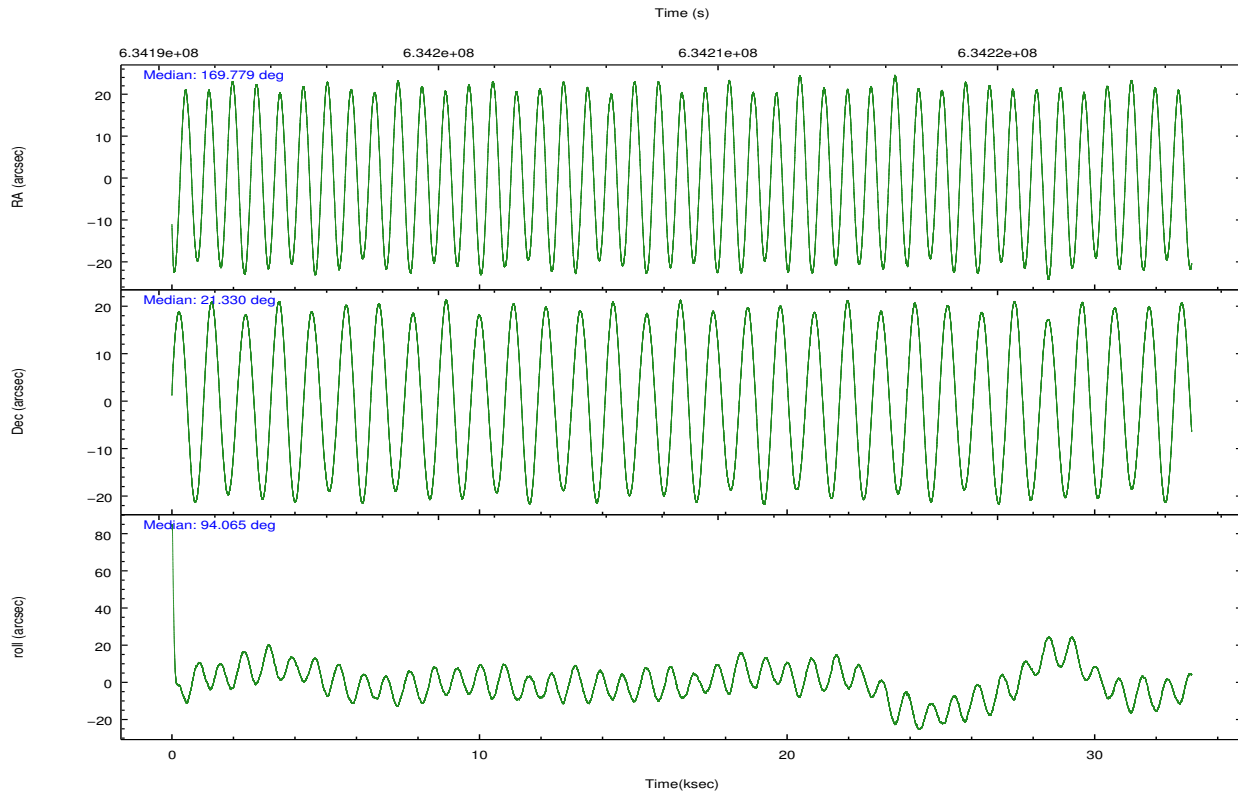
	segment 1	segment 2	segment 3
level 1 events	1201313	1202784	1194663
rejected events	28021	28142	27864
rejected %	2%	2%	2%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S			
Grating	LETG	LETG			
Data mode	OBSERVING	OBSERVING	Obspar file type	PREDICTED	ACTUAL
Observation mode	POINTING	POINTING			
[deg] Pointing RA	169.797251	169.7786510341917	Obspar update status	NONE	UPDATED
[deg] Pointing Dec	21.306992	21.33016055865139			
[deg] Pointing Roll	93.996003	94.0701370136287			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	634192296.184000	634191367.41842			
Observation start date	2018-02-05T04:30:27	2018-02-05T04:16:07			
[s] Observation end time (MET)	634225296.184000	634226167.19547			
Observation end date	2018-02-05T13:40:27	2018-02-05T13:56:07			

2.3 Aspect



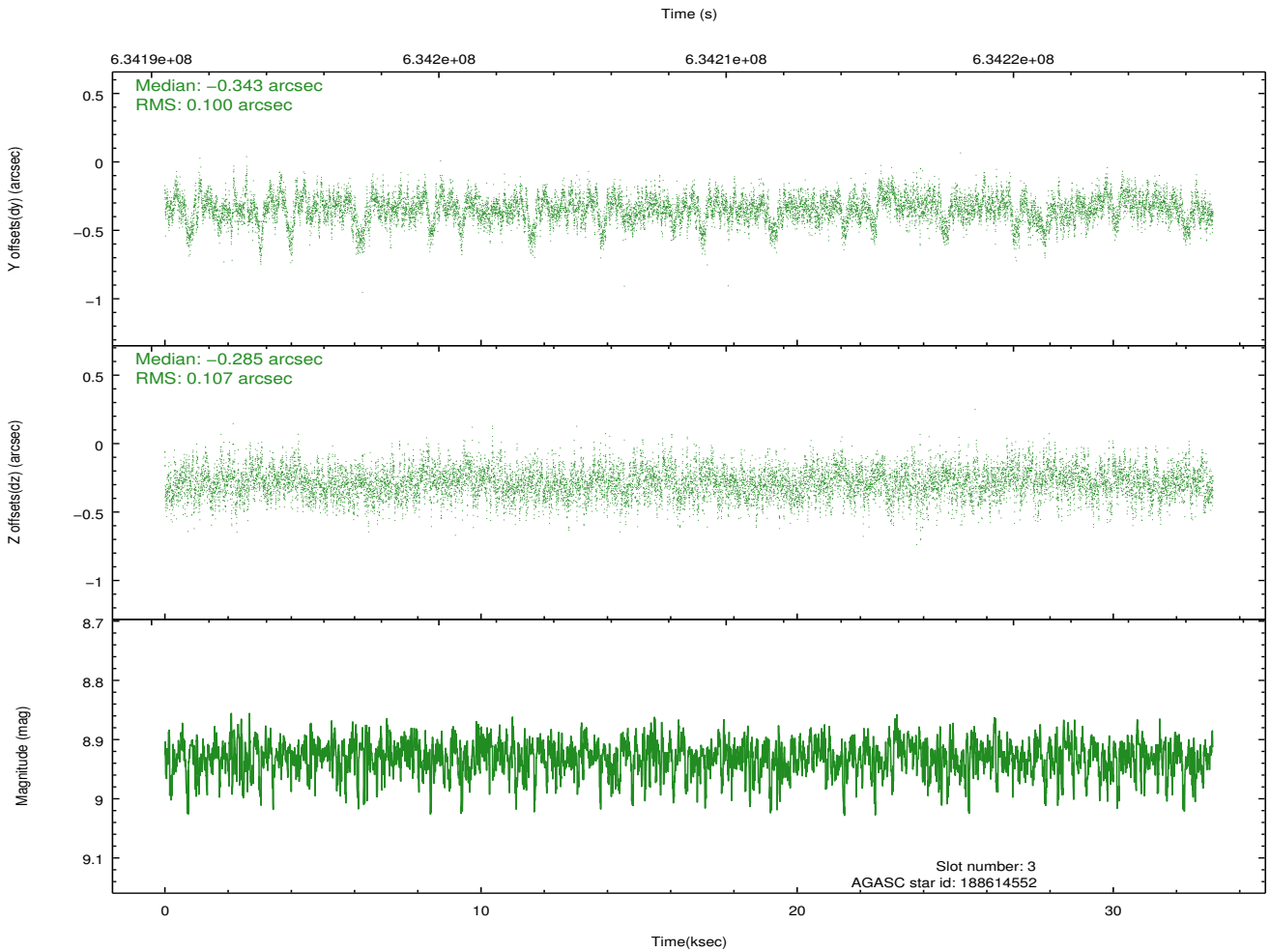
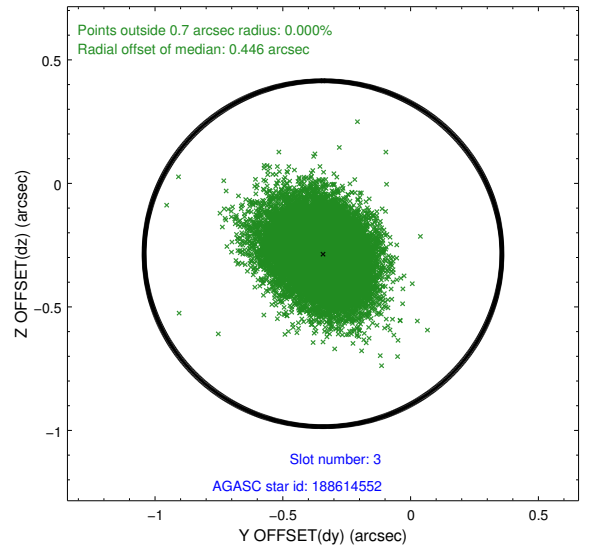
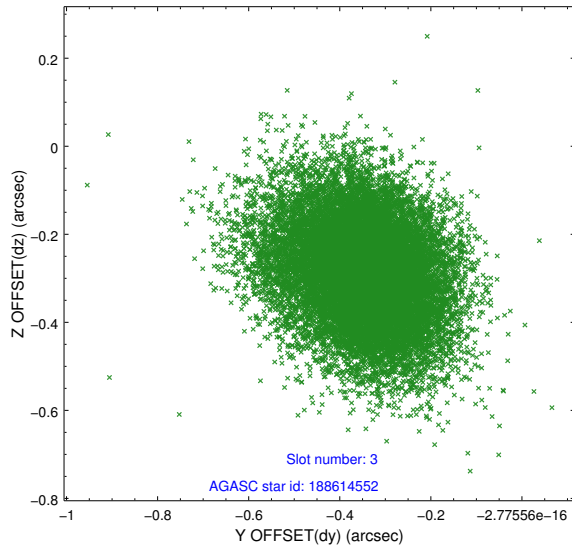


Slot Statistics

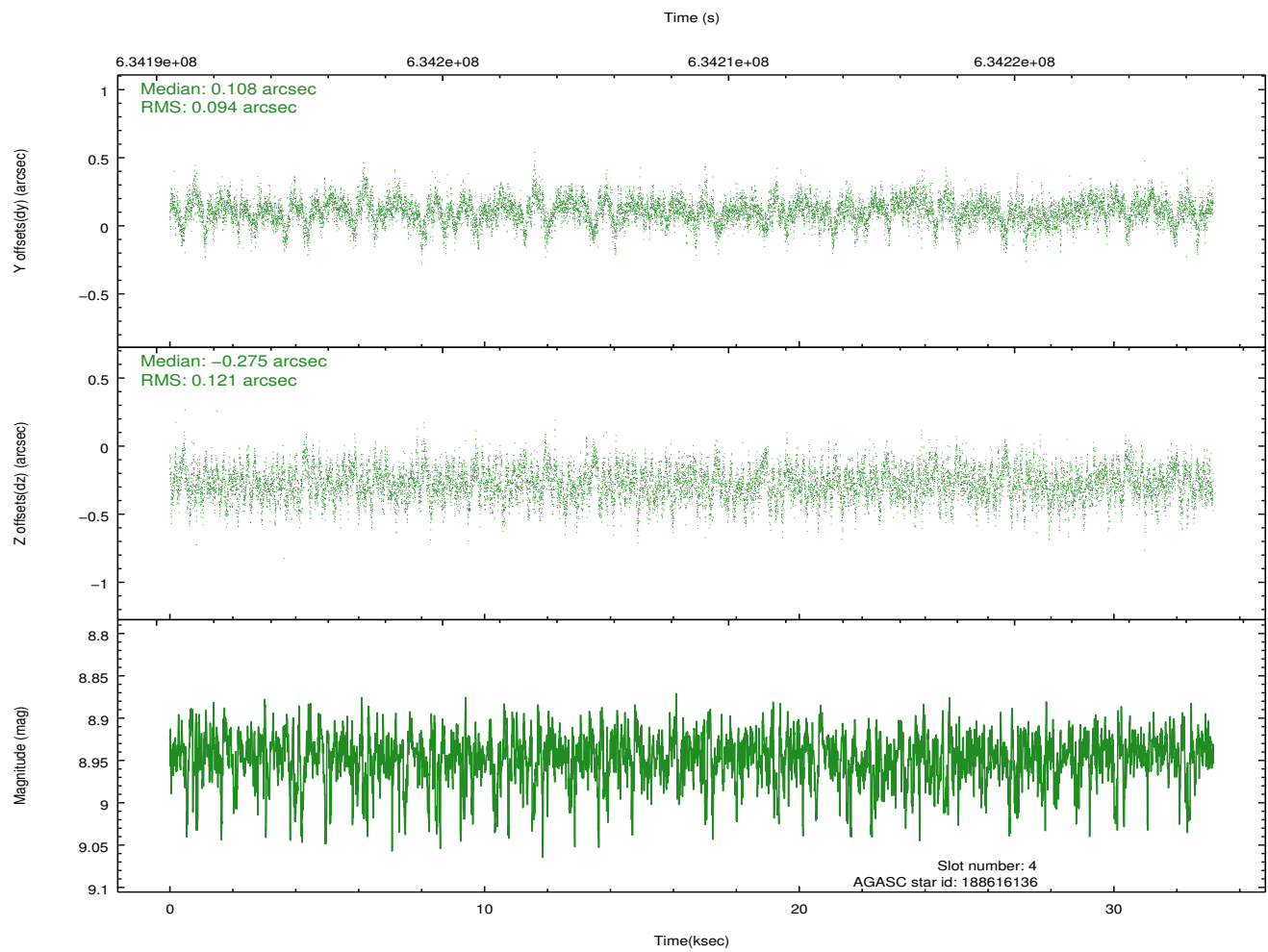
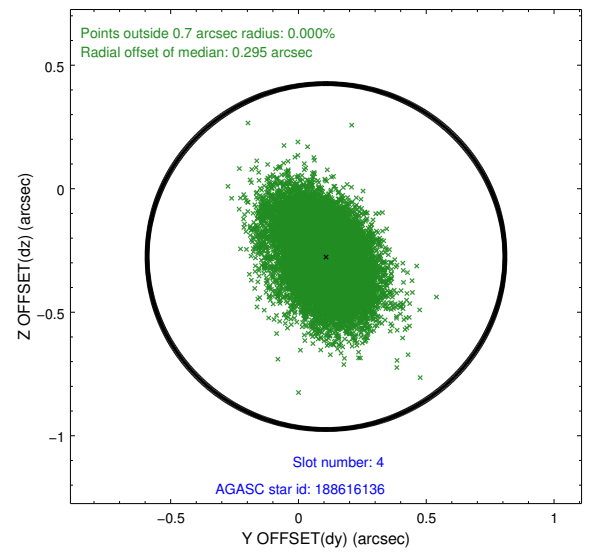
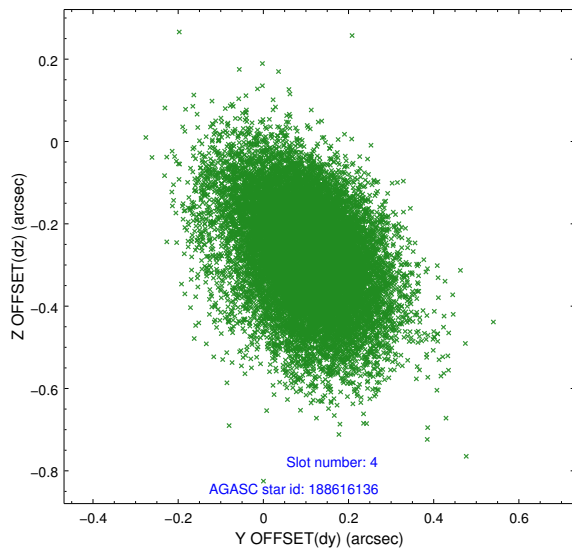
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.08	8087	-0.088	-0.187	0.015	0.035	0.000000	0.000000	-1177.68	-470.41
1	FID		HRC-S-2	7.04	8087	0.430	-0.136	0.016	0.031	0.000000	0.000000	1222.38	-462.84
2	FID		HRC-S-3	7.06	8087	0.045	0.023	0.018	0.031	0.000000	0.000000	-1180.21	559.28
3	GUIDE	used	188614552	8.93	16160	-0.343	-0.285	0.154	0.257	169.490657	21.468678	653.18	984.37
4	GUIDE	used	188616136	8.94	16156	0.108	-0.275	0.158	0.275	169.590378	21.286471	-25.52	696.68
5	GUIDE	used	188622880	7.58	16169	-0.168	0.089	0.127	0.215	170.025103	21.913955	2126.60	-911.20
6	GUIDE	used	188623472	7.06	16172	0.213	0.381	0.121	0.214	169.895324	20.725289	-2111.26	-182.87
7	GUIDE	used	188614832	9.12	16147	0.201	0.091	0.207	0.356	170.375801	21.987686	2313.42	-2096.92

2.4 Star Slots

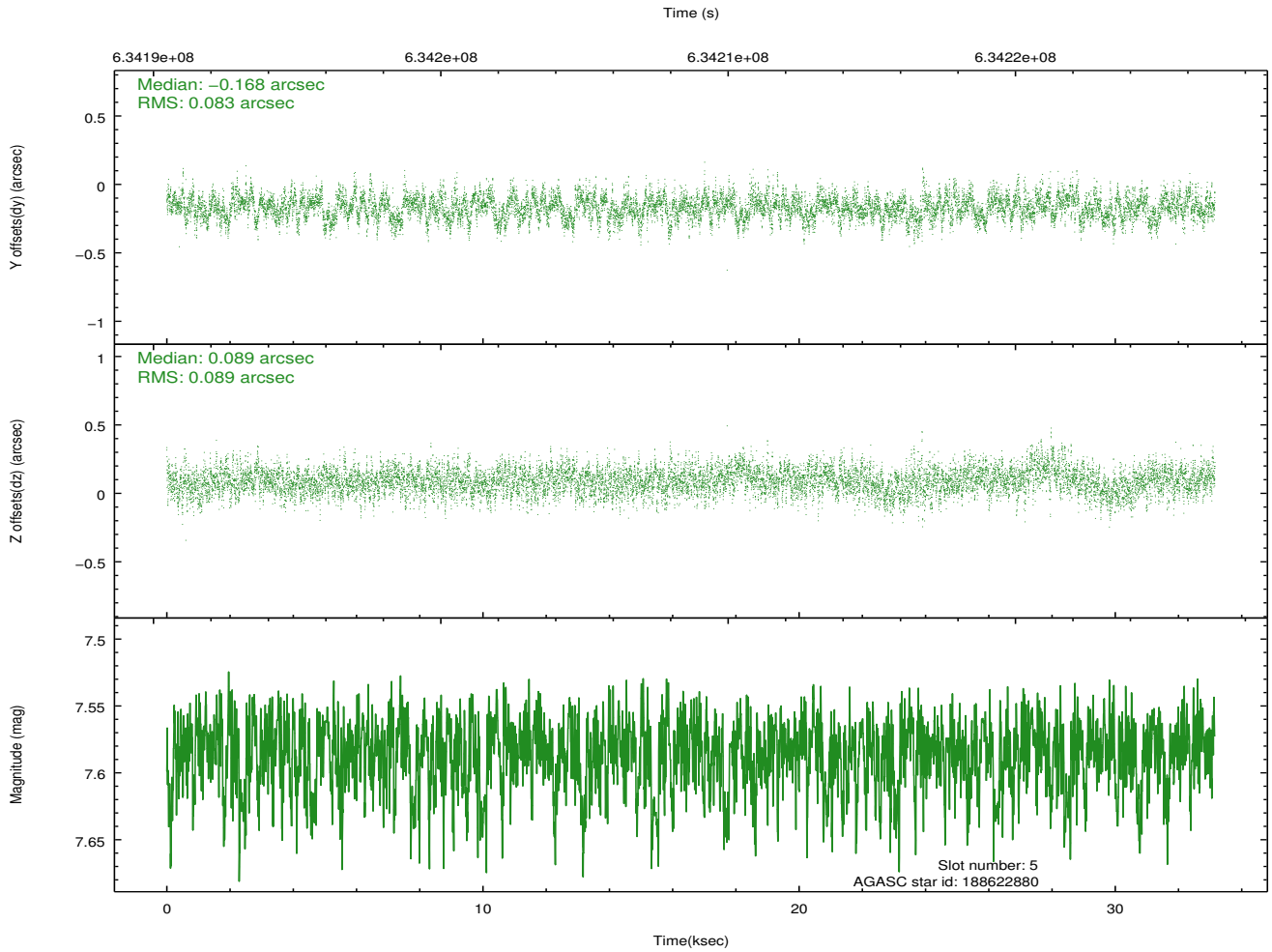
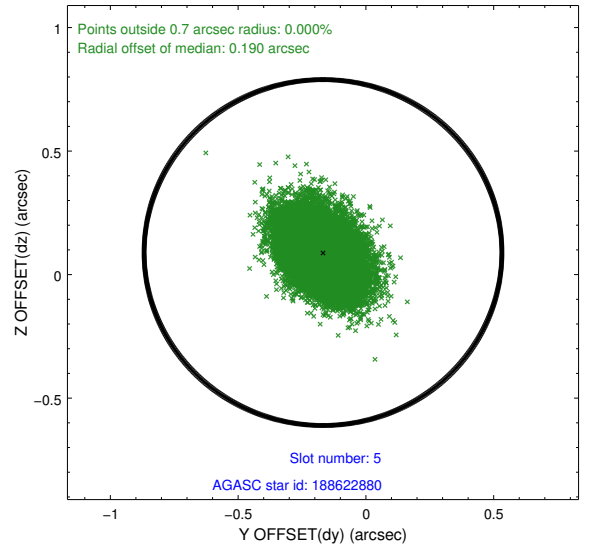
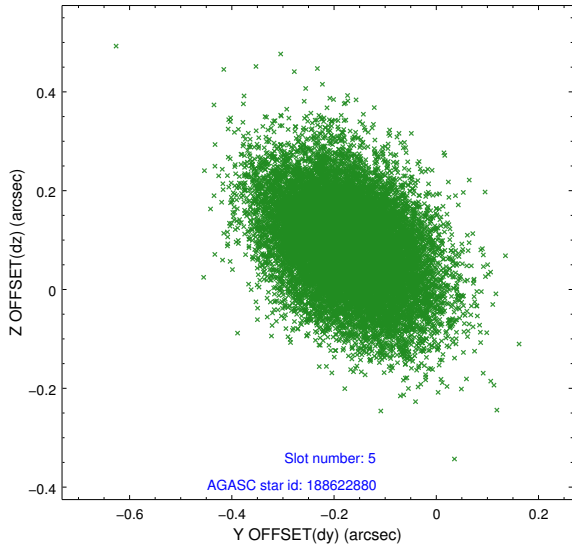
2.4.1 Slot 3



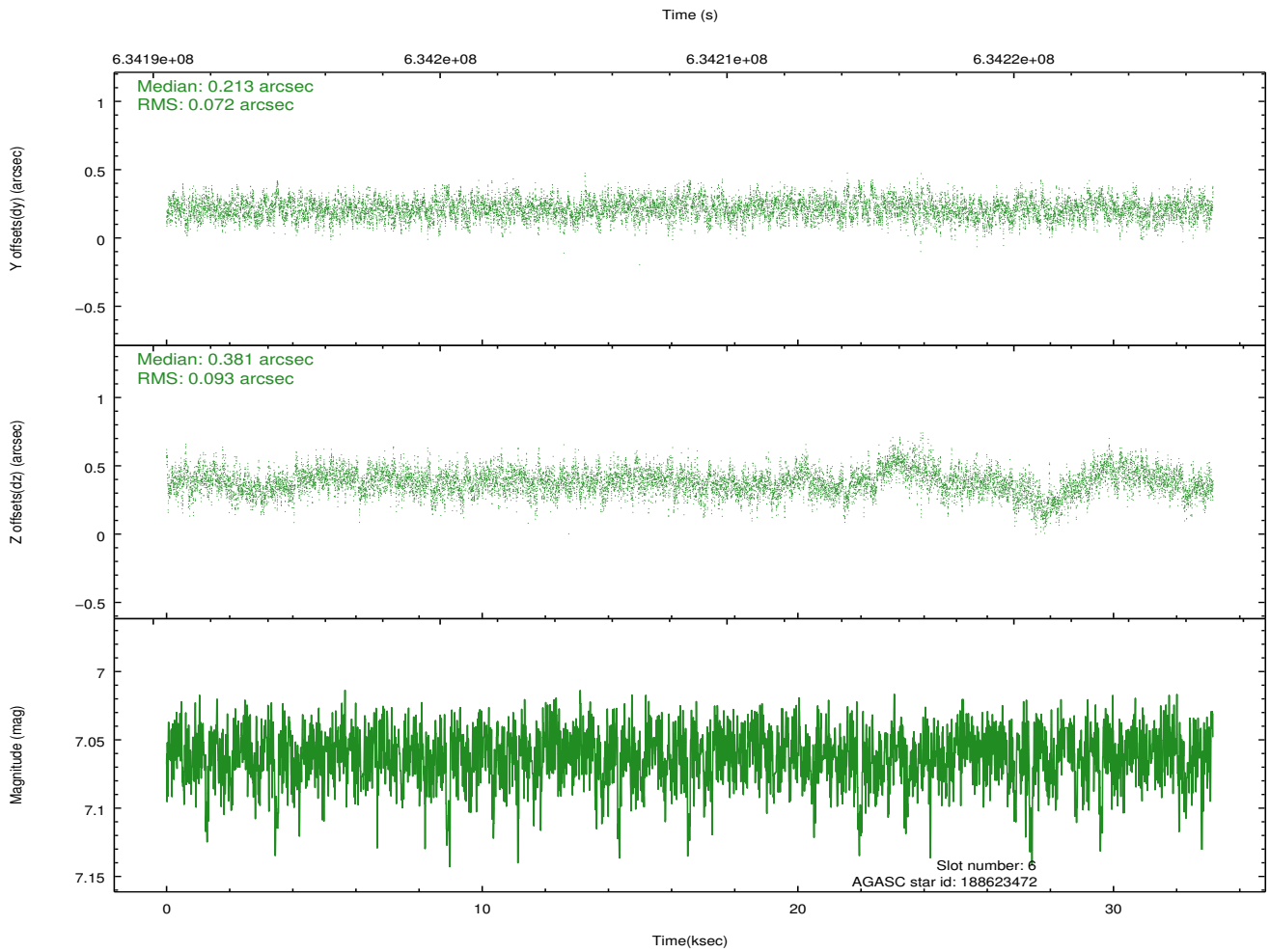
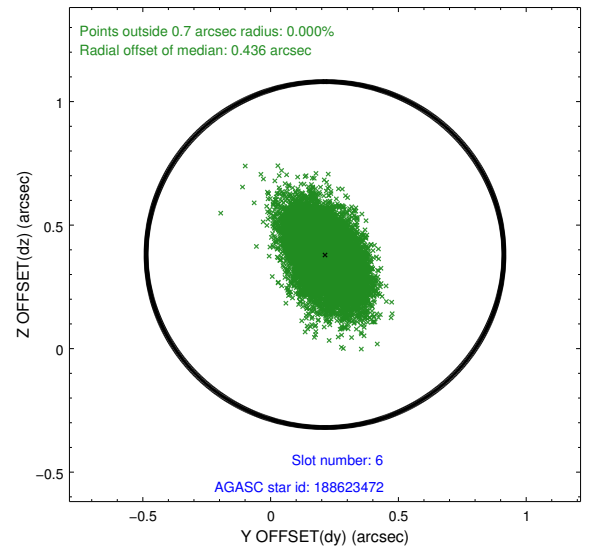
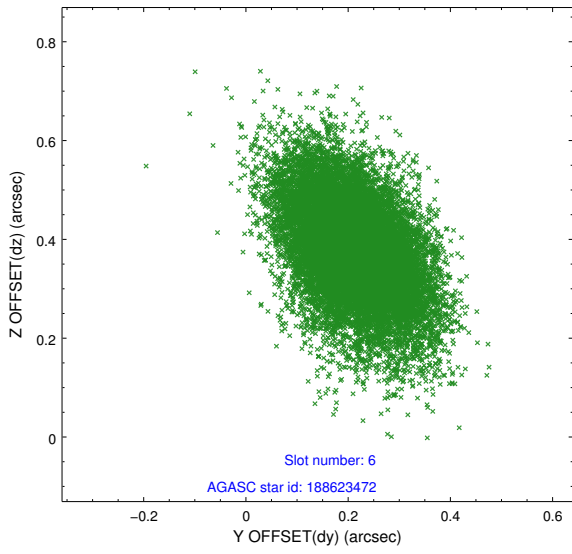
2.4.2 Slot 4



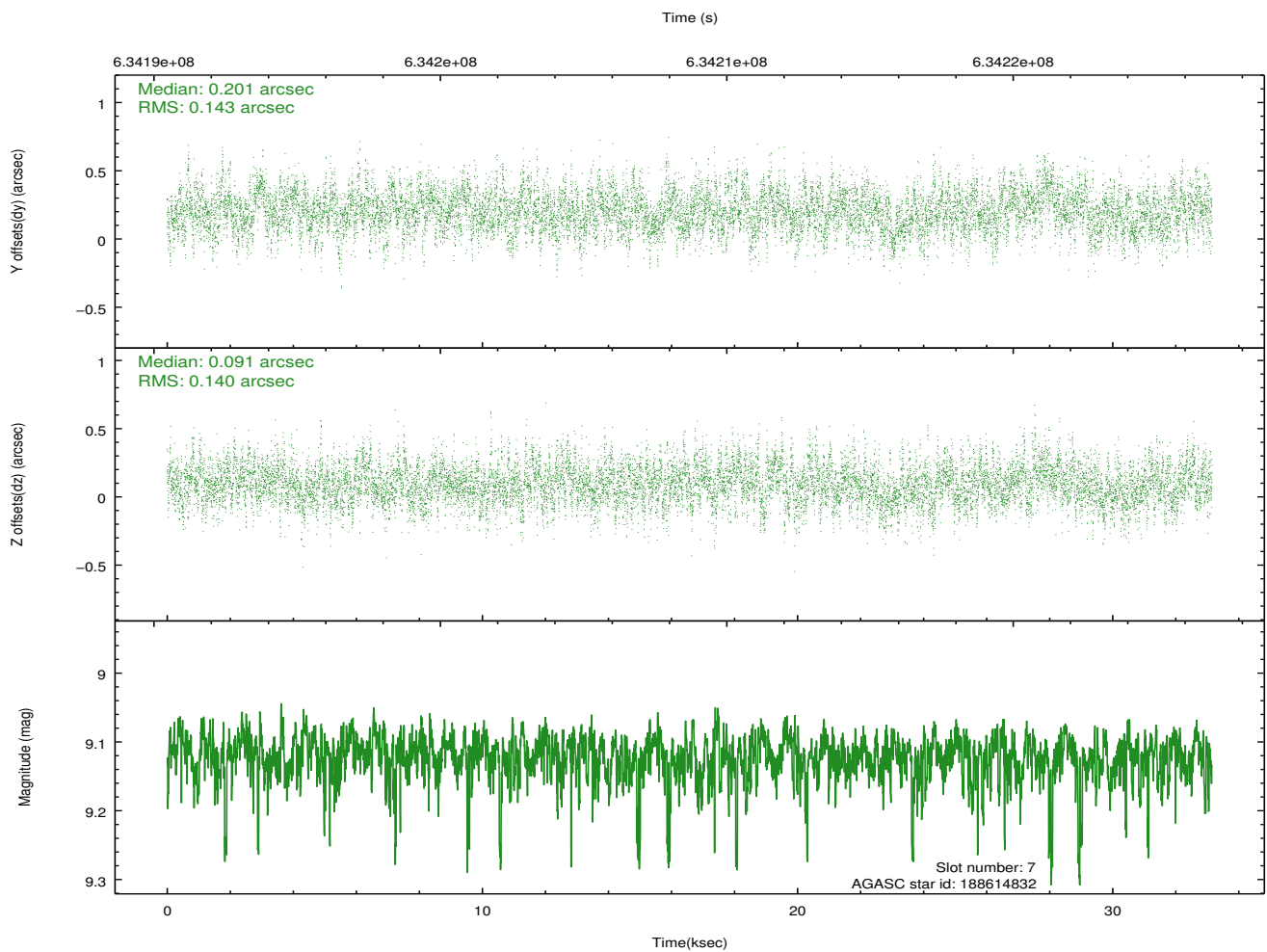
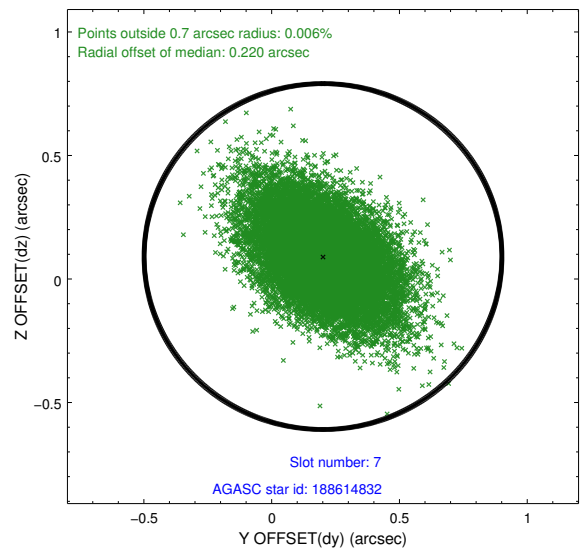
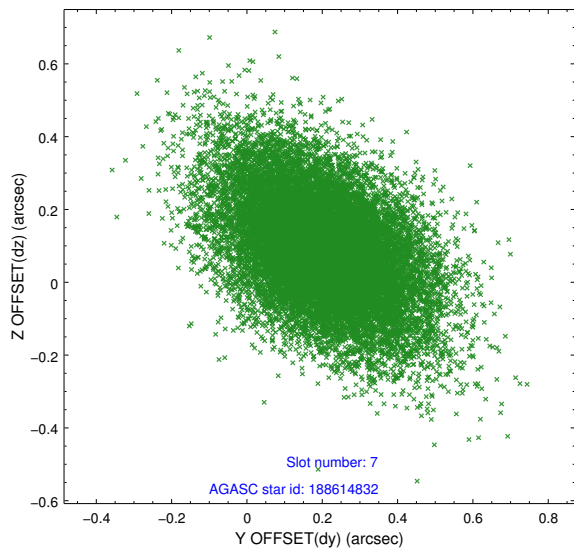
2.4.3 Slot 5



2.4.4 Slot 6

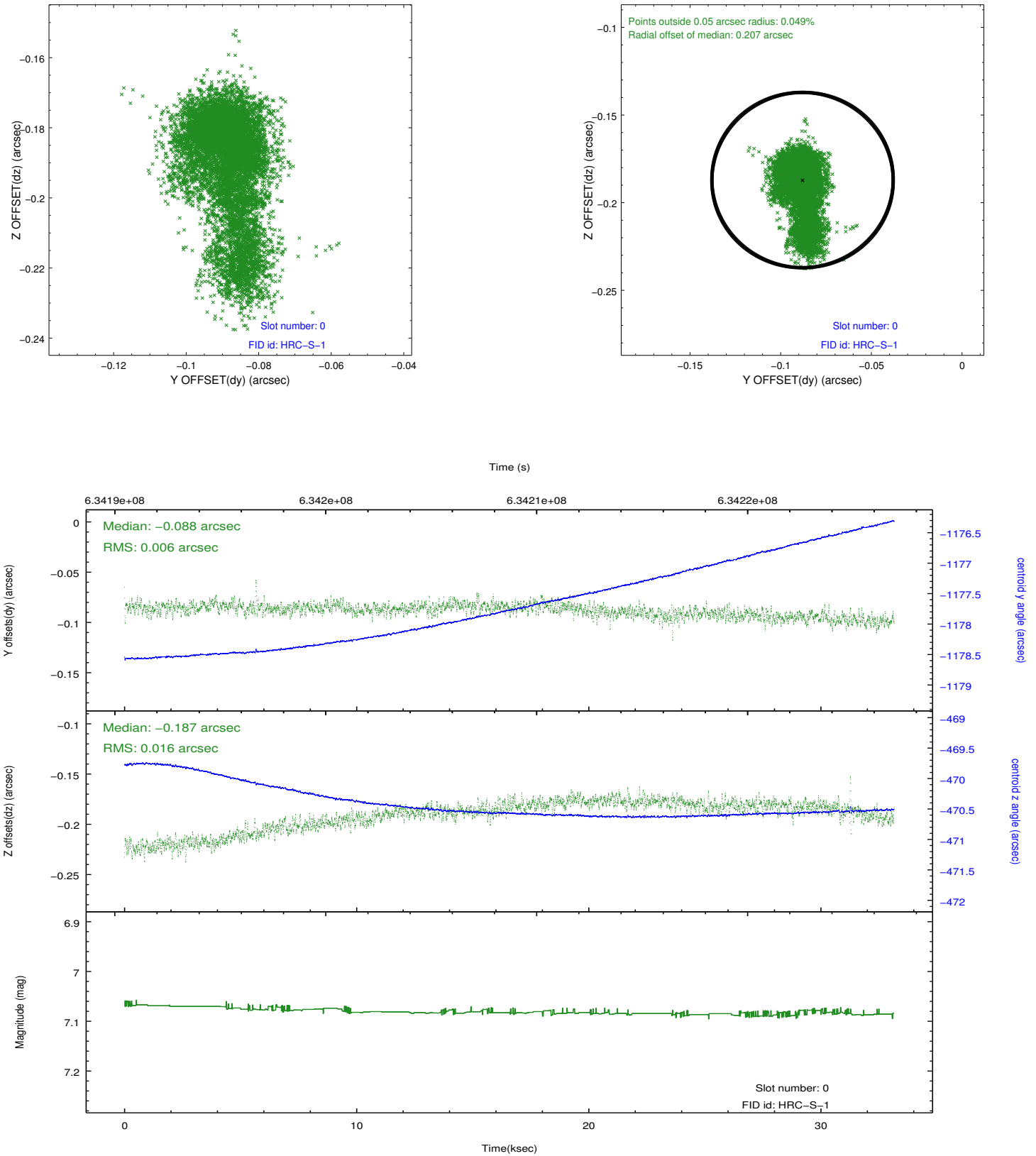


2.4.5 Slot 7

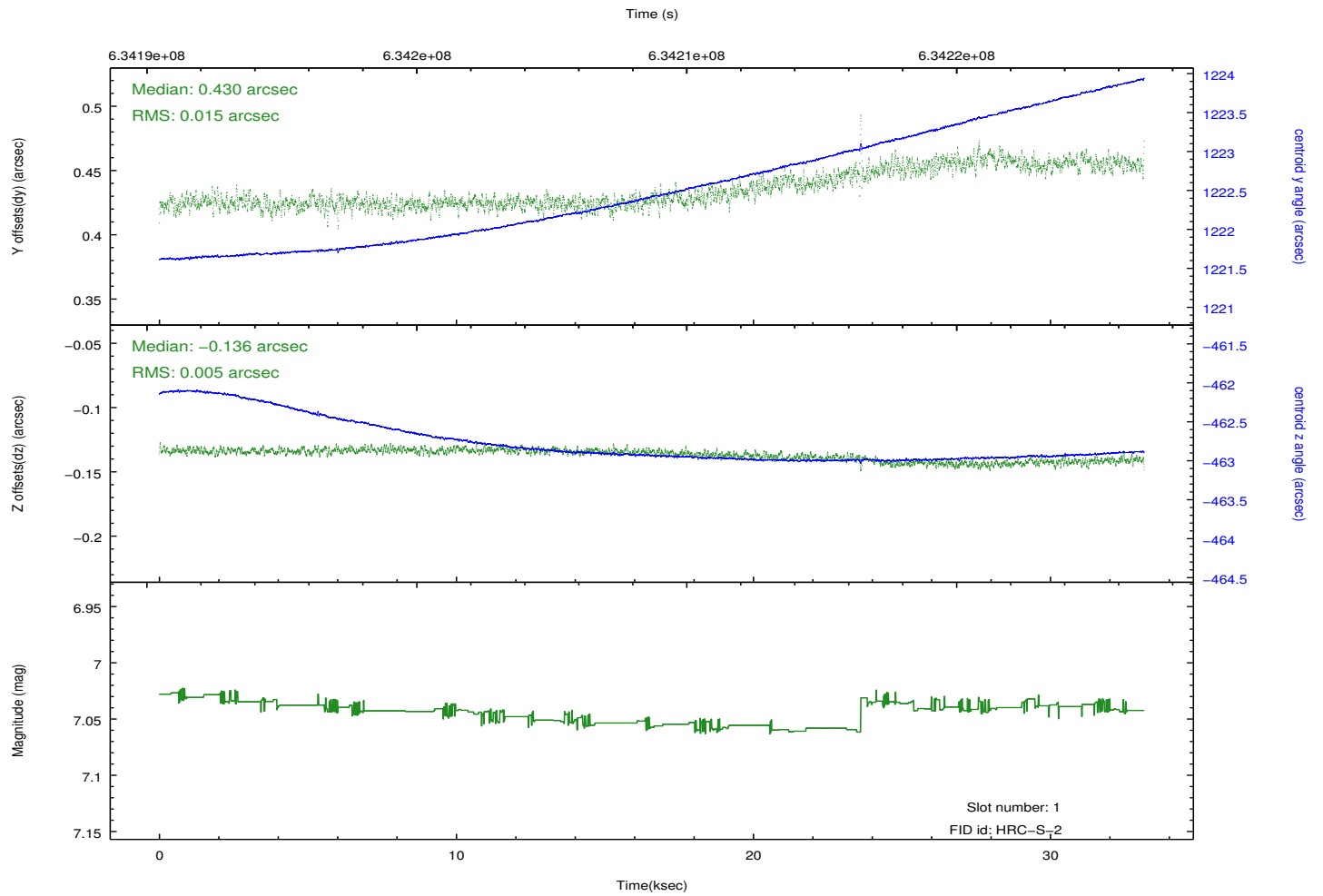
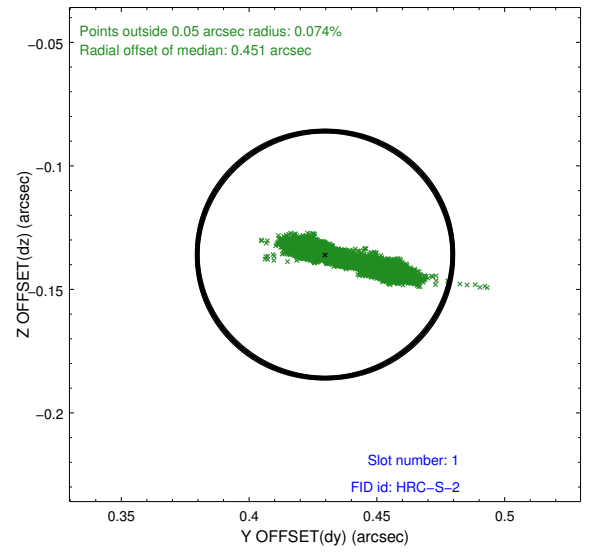
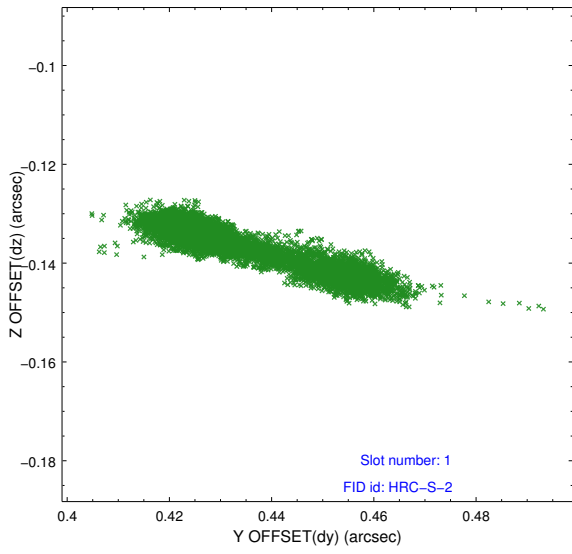


2.5 FID Slots

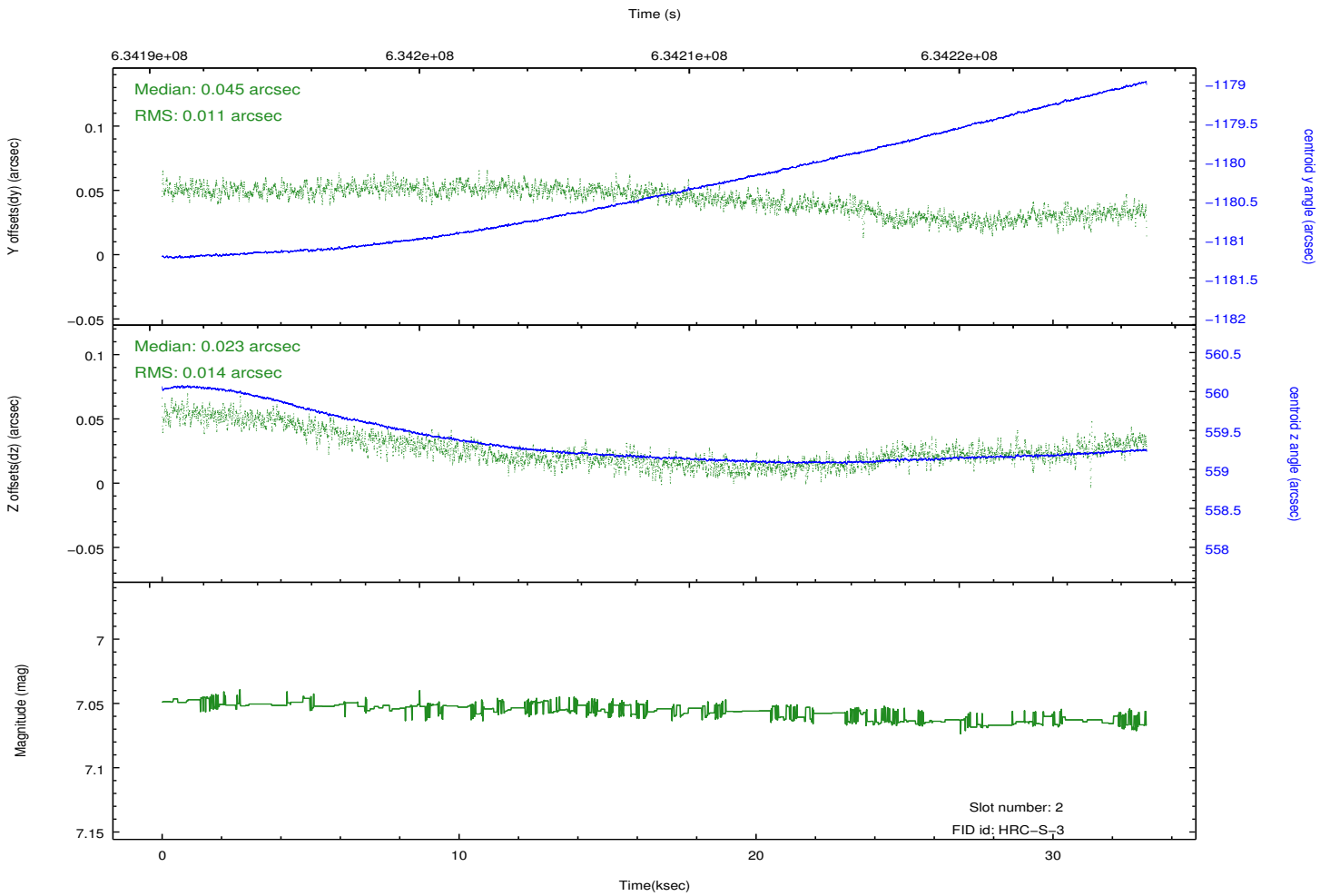
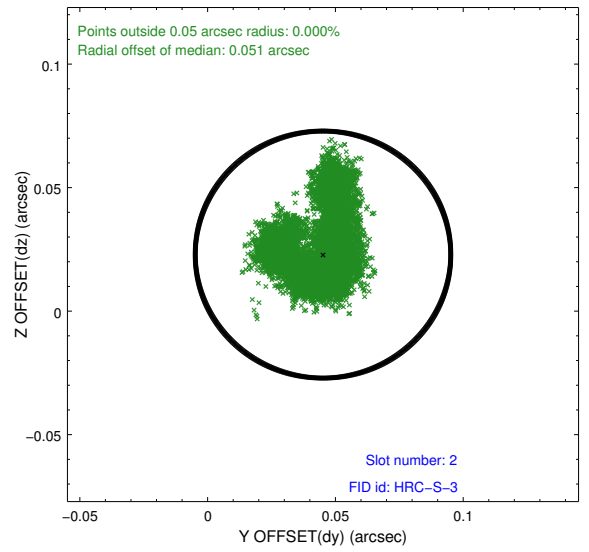
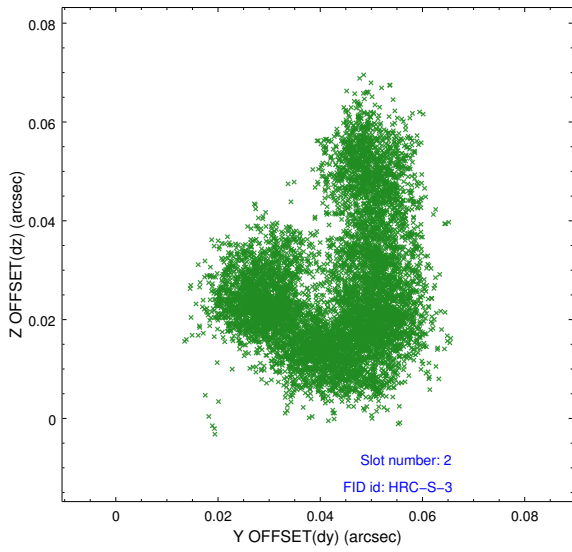
2.5.1 Slot 0



2.5.2 Slot 1

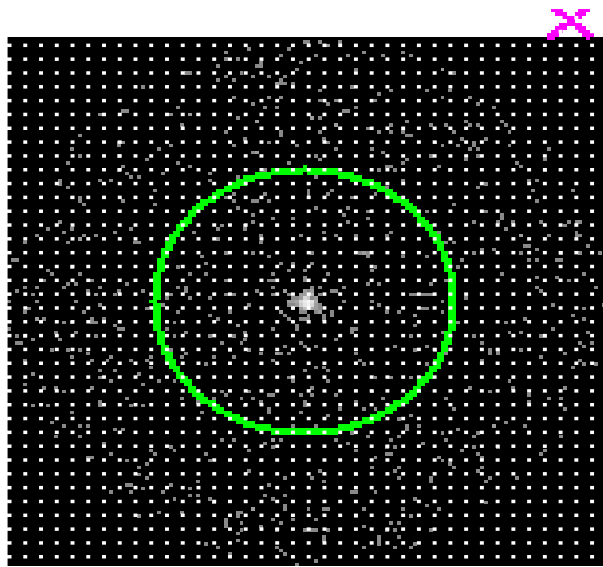


2.5.3 Slot 2

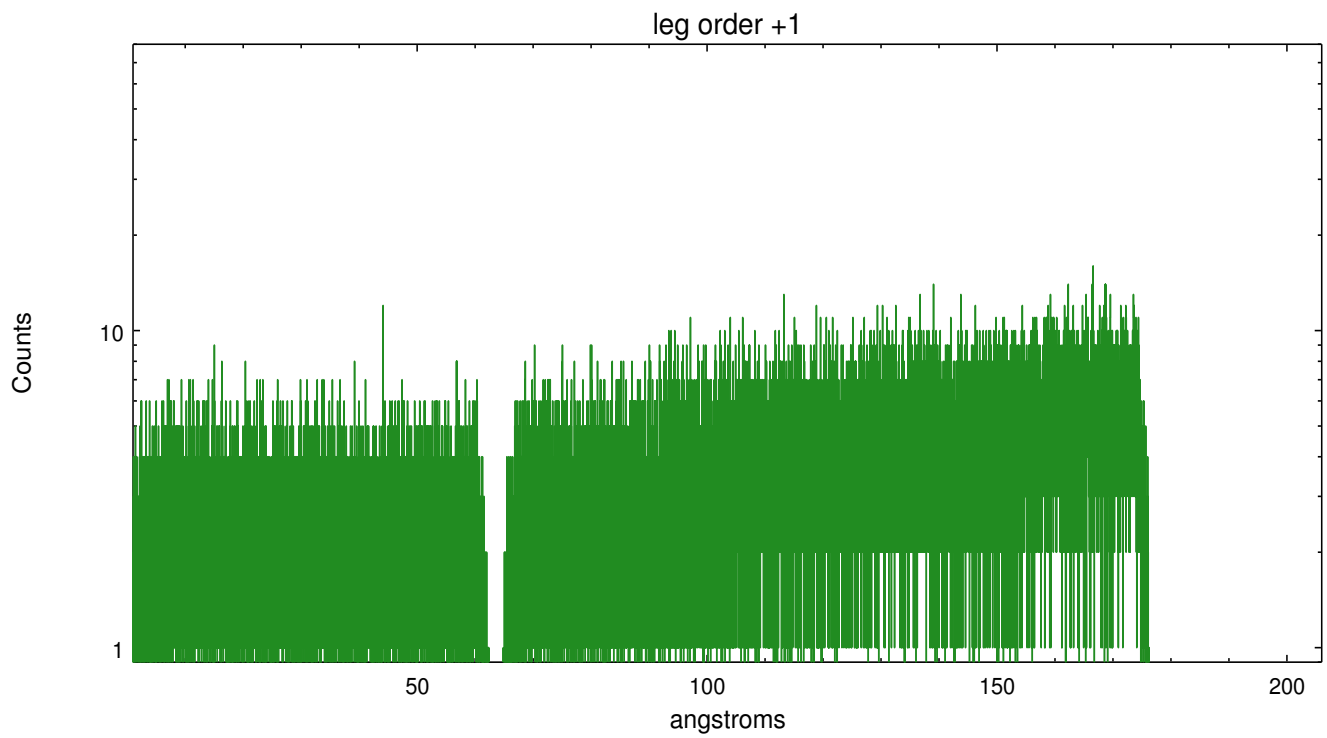
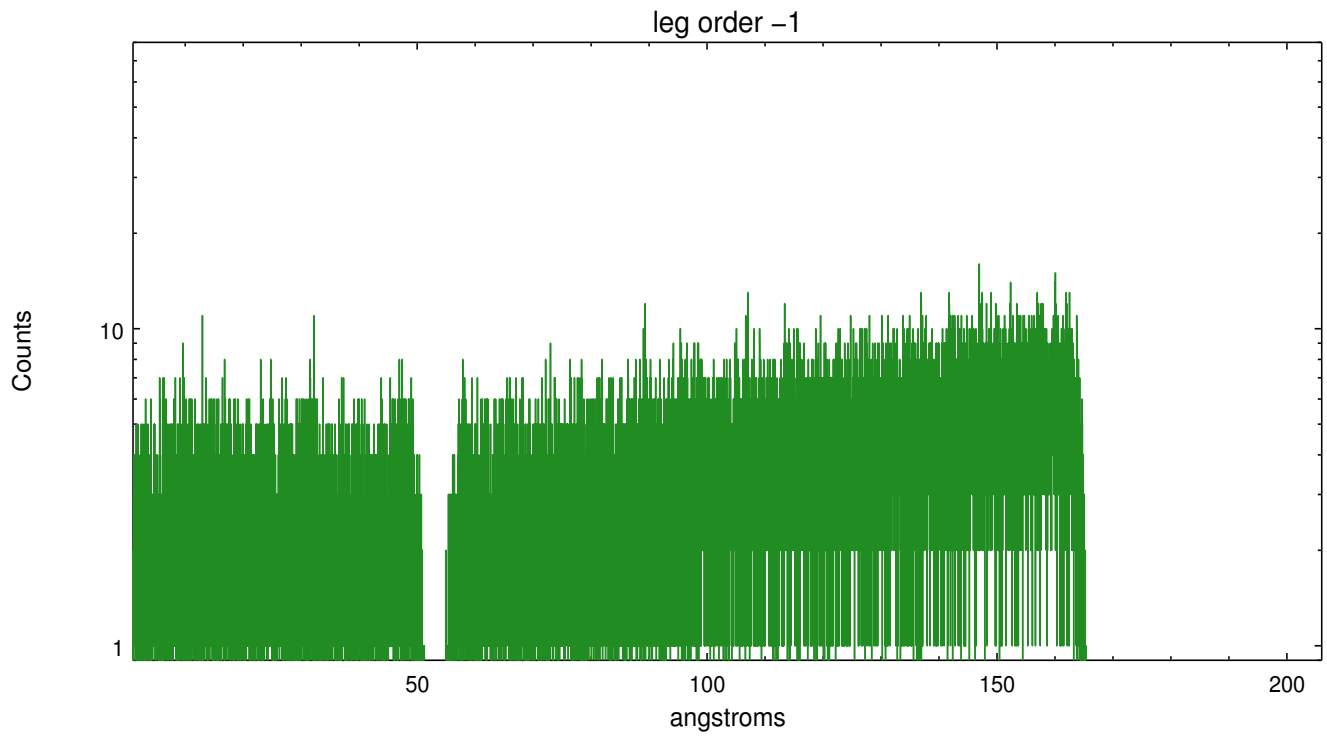


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.02.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.153498829365

A.2 Comments