

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 20706 - L2 Version 1
Chandra X-Ray Center

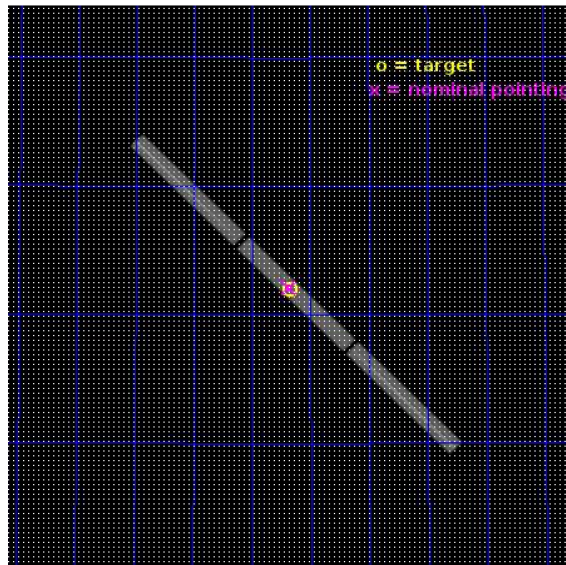
L2 Processing Date : Nov 27 2018

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1 Front

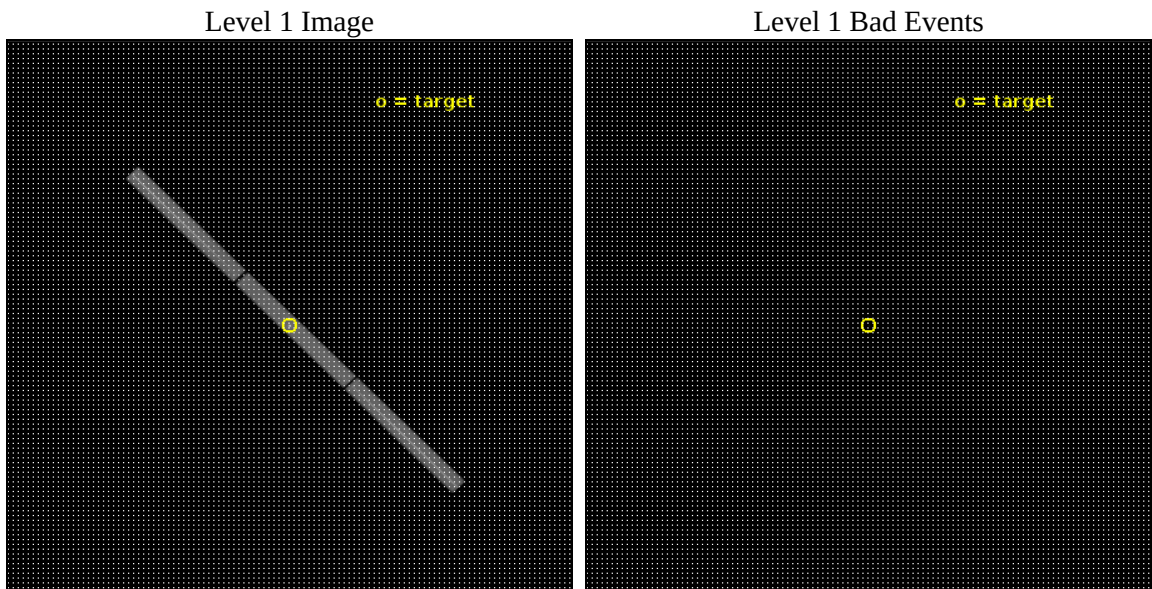
seq_num	291417	Sequence number
obs_id	20706	Observation id
title	AO-19 LETG/HRC-S Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.09075852391	Nominal RA [deg]
dec_nom	29.105153027349	Nominal Dec [deg]
roll_nom	44.998351119891	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20187.632452846	[s]
livetime	19938.294677321	Ontime multiplied by DTCOR
l2events	2484426	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	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	20187.632452846	[s]
caldbver	4.8.0.1	 	l1events	3022448	Number of level 1 events
date	2018-11-27T23:26:09	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32783.65, 32582.84)	src1a sky pixel position

2.1.3 Events

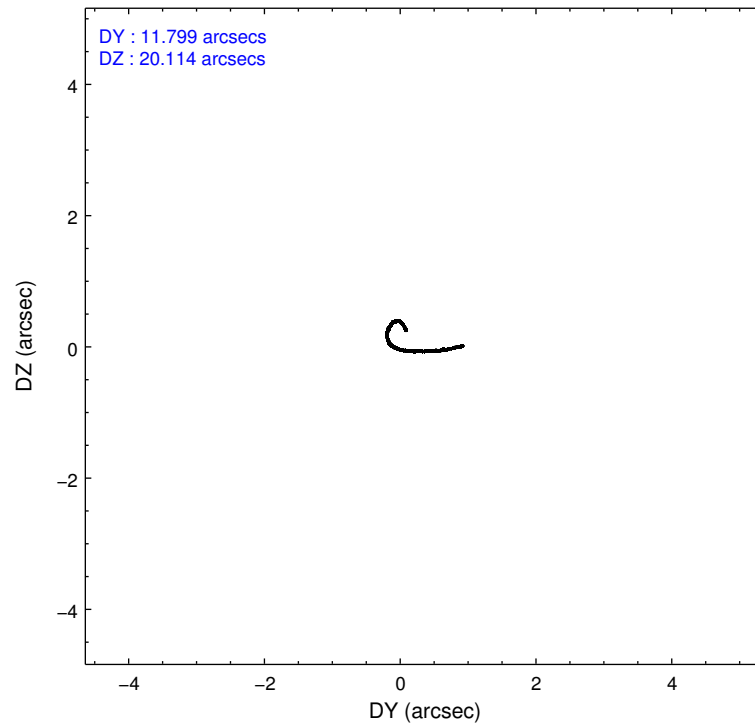
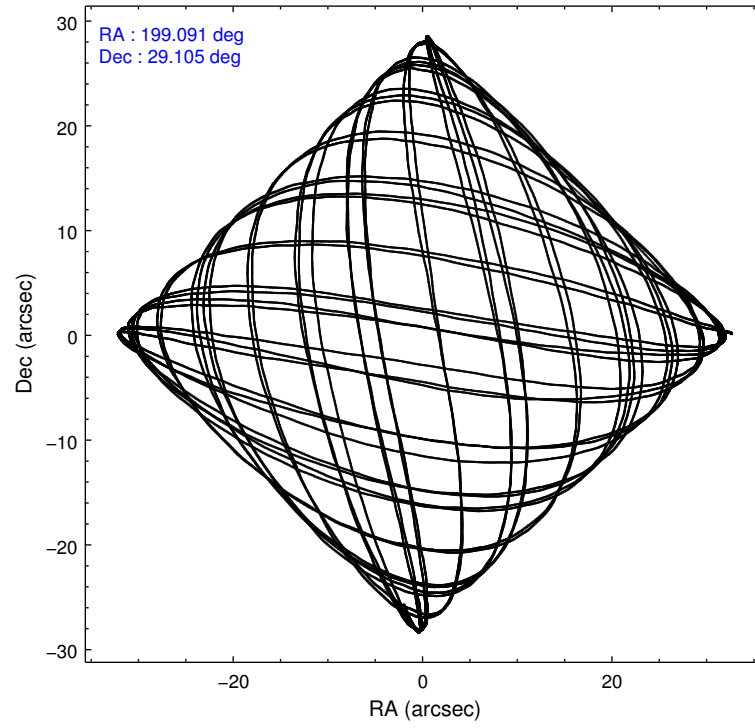
Level 1 Events

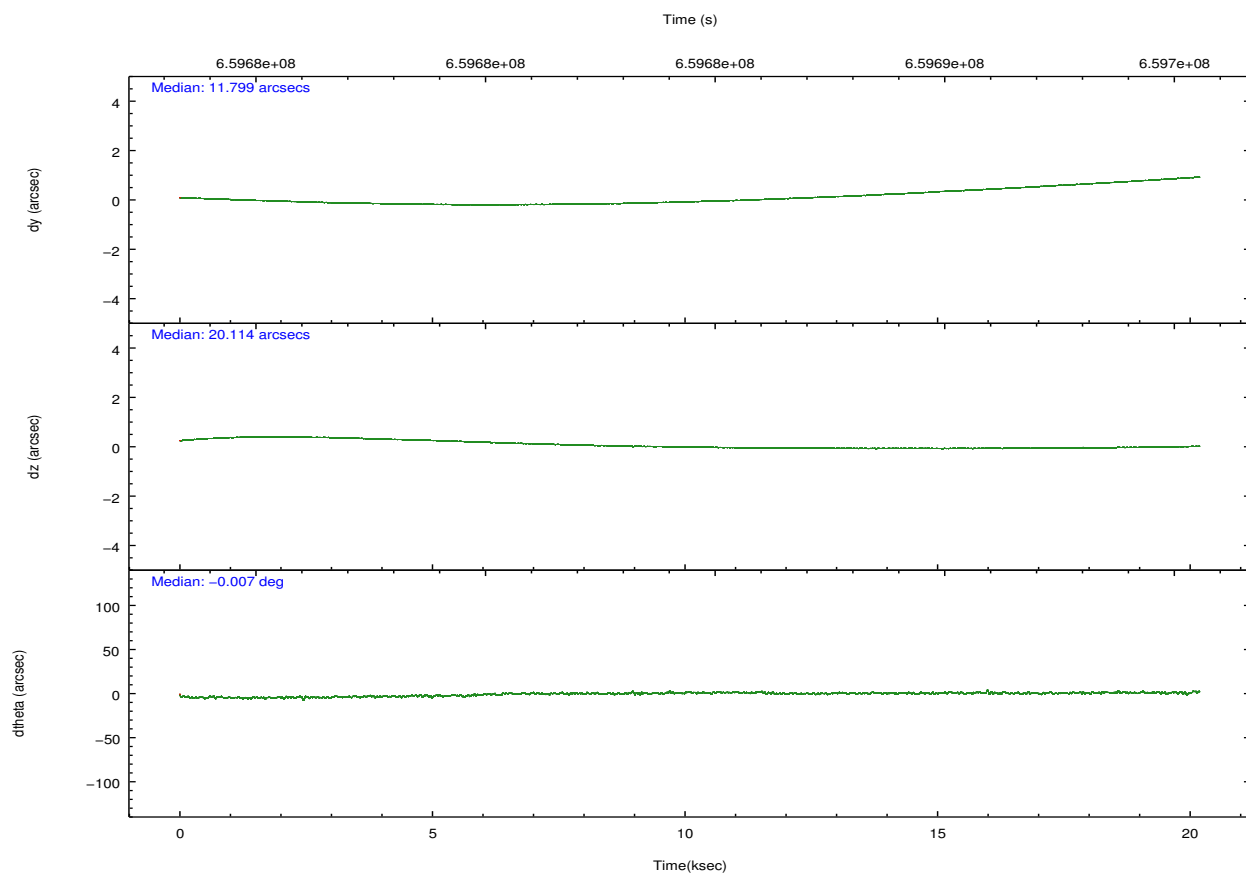
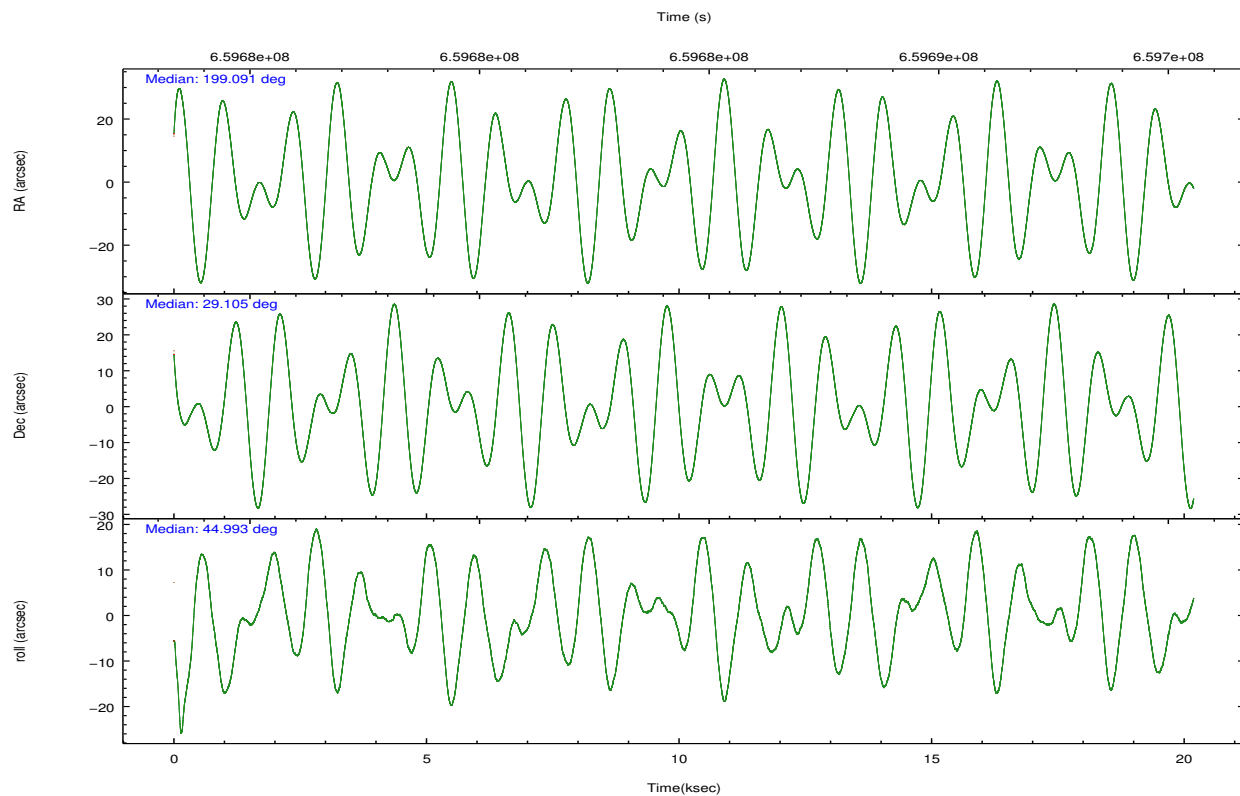
	segment 1	segment 2	segment 3
level 1 events	1036359	943570	1042519
rejected events	31880	31609	31816
rejected %	3%	3%	3%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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	199.083734	199.0907585239147			
[deg] Pointing Dec	29.076978	29.10515302734893			
[deg] Pointing Roll	44.934431	44.99835111989113			
[s] Window start time (MET)	657417669.184000	657417669.184000			
[s] Window stop time (MET)	659923269.184000	659923269.184000			
[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)	659674547.184000	659673576.25743			
Observation start date	2018-11-27T02:54:38	2018-11-27T02:39:36			
[s] Observation end time (MET)	659694547.184000	659695248.34623			
Observation end date	2018-11-27T08:27:58	2018-11-27T08:40:48			

2.3 Aspect



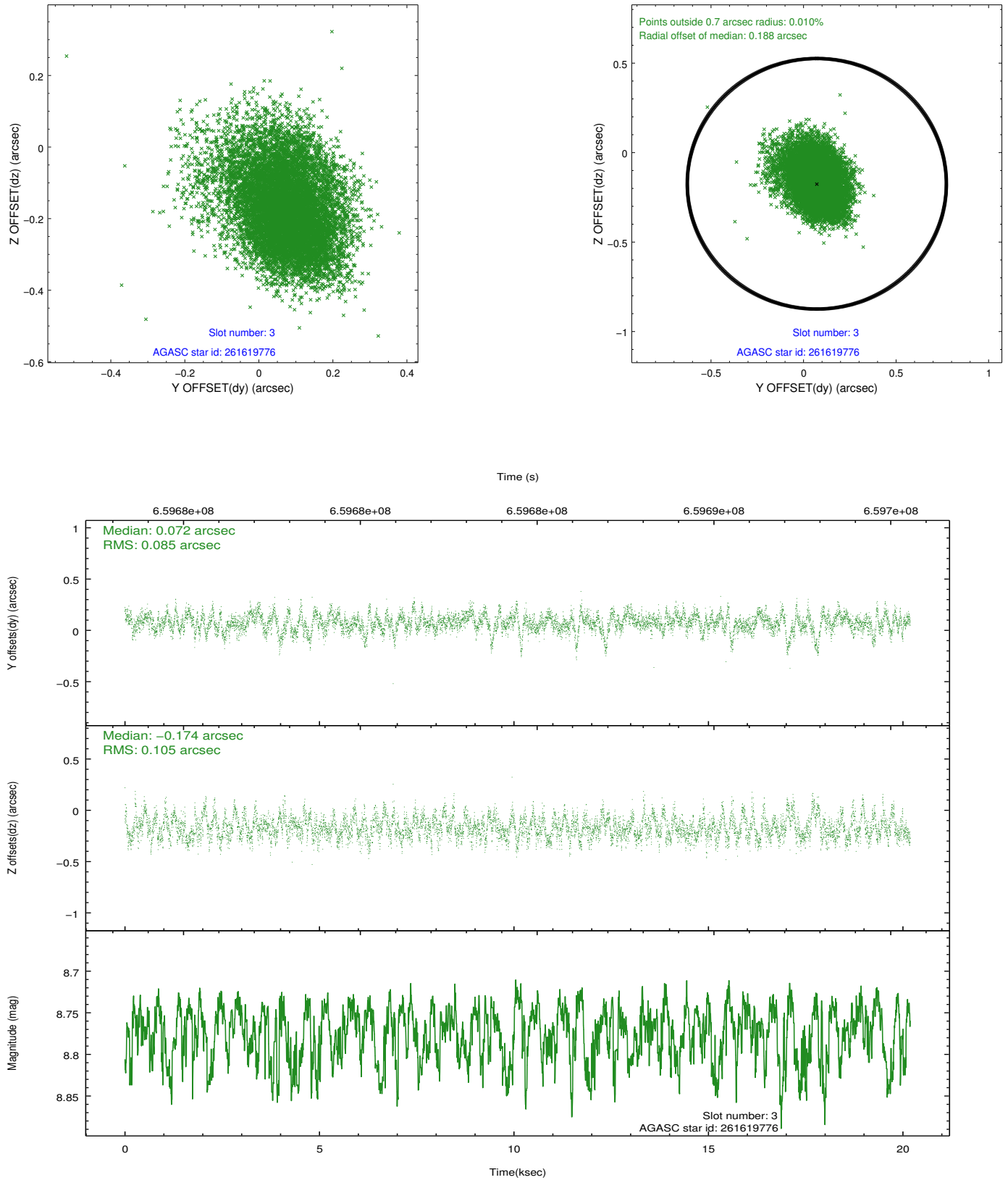


Slot Statistics

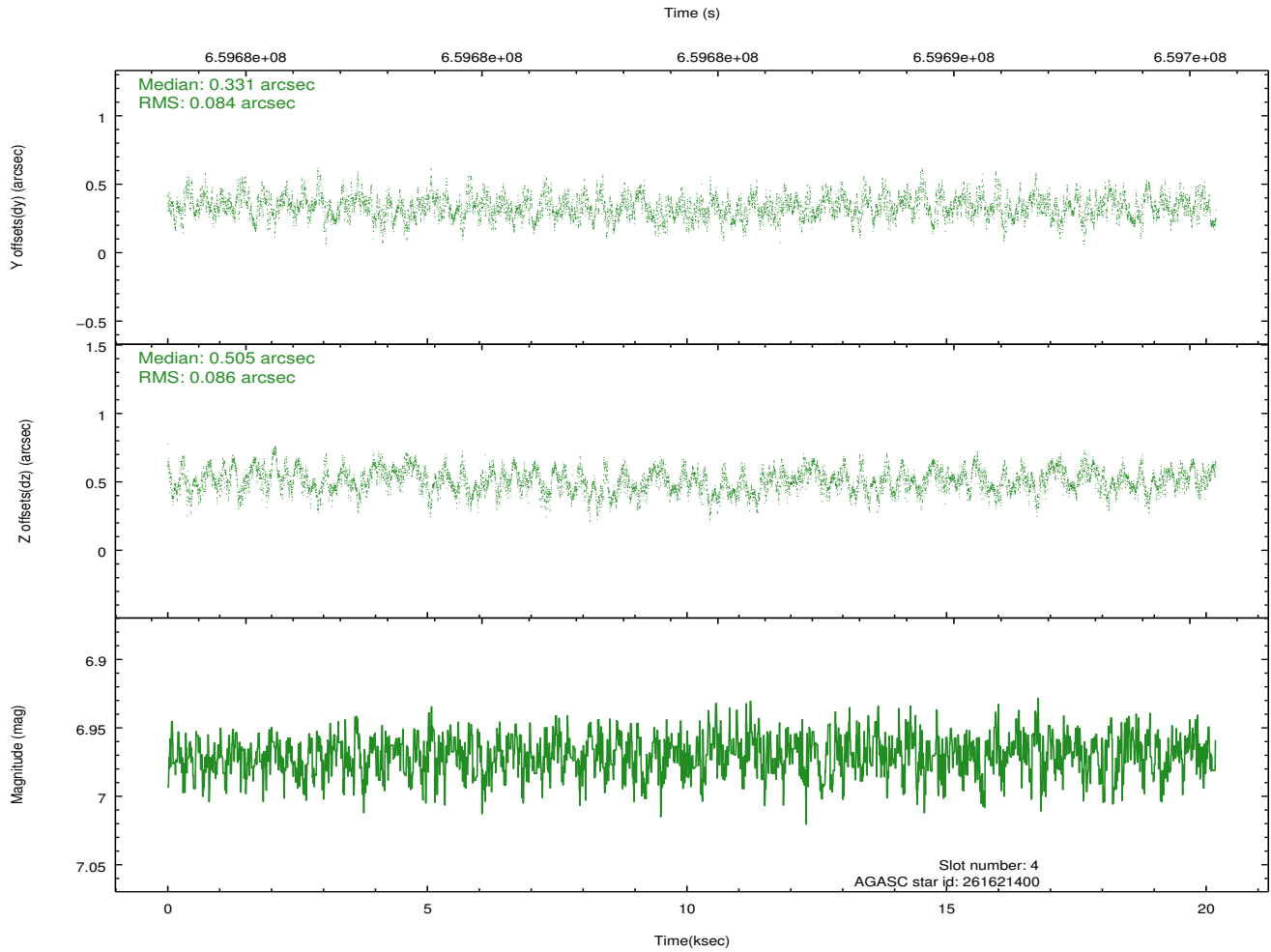
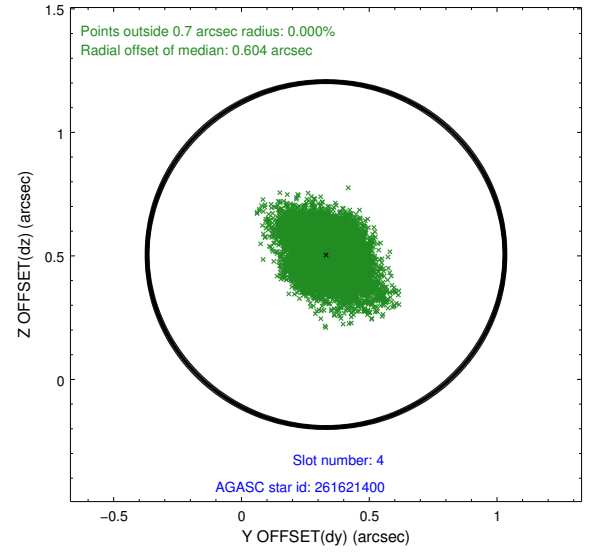
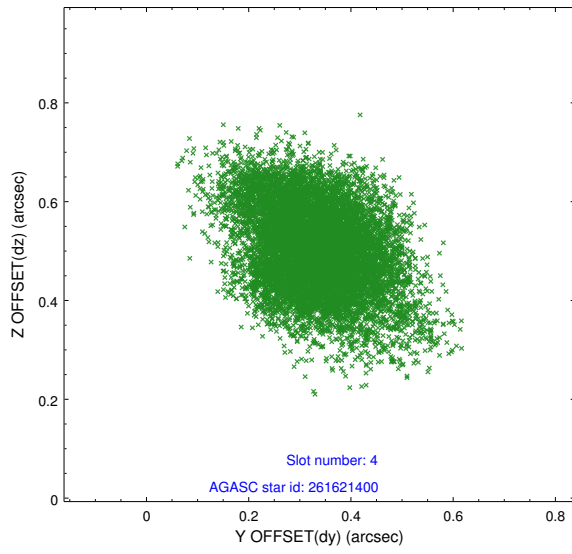
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-2	7.06	4925	1.000	0.284	-0.258	0.010	0.017	0.000000	0.000000	1233.70	-461
1	FID		HRC-S-3	7.05	4925	1.000	-0.254	-0.035	0.006	0.011	0.000000	0.000000	-1169.06	560
2	FID		HRC-S-4	7.04	4924	1.000	0.375	-0.003	0.010	0.017	0.000000	0.000000	1232.06	563
3	GUIDE	used	261619776	8.77	9836	1.000	0.072	-0.174	0.141	0.238	198.654383	29.401174	-126.84	1777
4	GUIDE	used	261621400	6.97	9849	1.000	0.331	0.505	0.126	0.209	198.901600	28.741982	-1258.15	-446
5	GUIDE	used	261626376	9.65	9812	1.000	-0.130	-0.071	0.284	0.487	198.947288	29.347445	384.39	992
6	GUIDE	used	261629720	8.09	9849	1.000	0.119	0.252	0.125	0.196	199.236176	29.044452	257.44	-420
7	GUIDE	used	261623040	9.08	9834	1.000	-0.392	-0.523	0.168	0.273	198.792686	29.757643	1087.08	2377

2.4 Star Slots

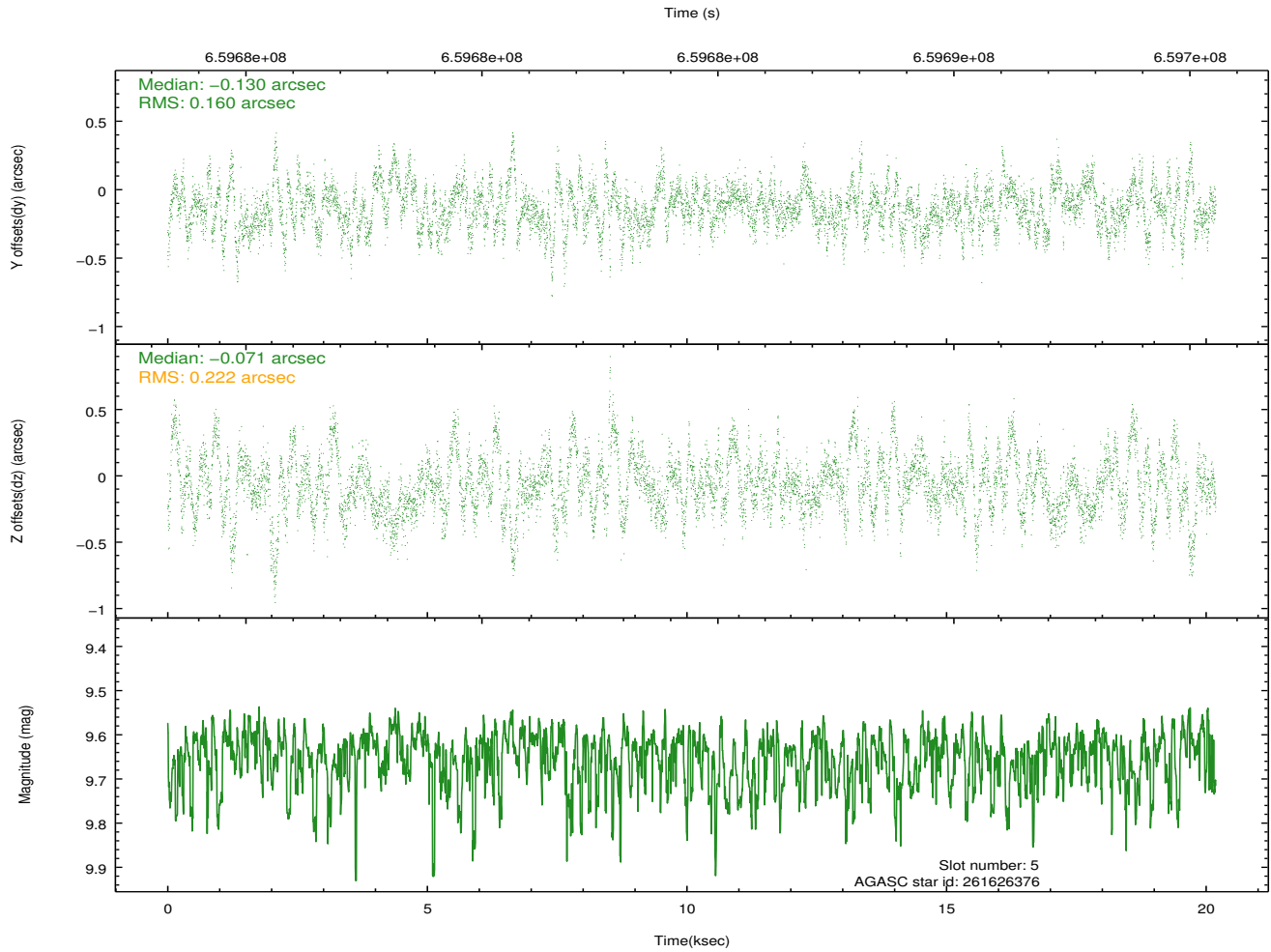
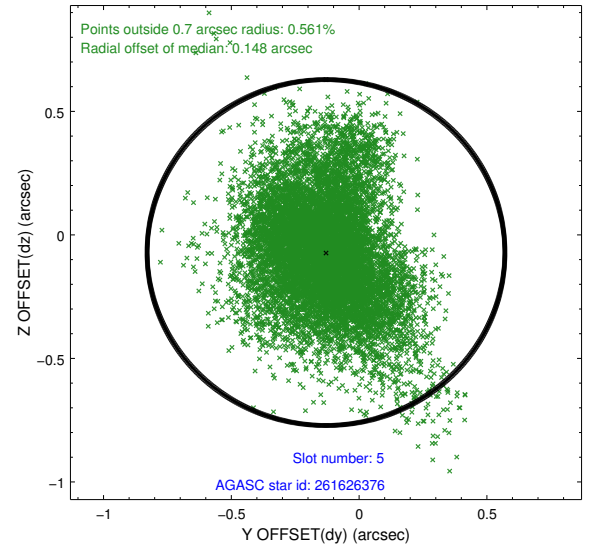
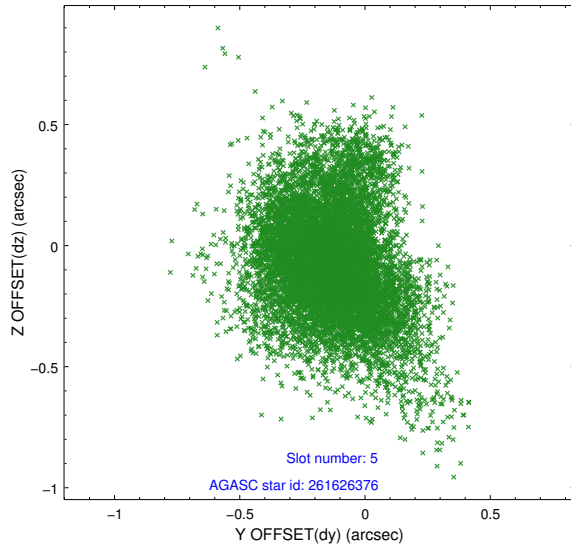
2.4.1 Slot 3



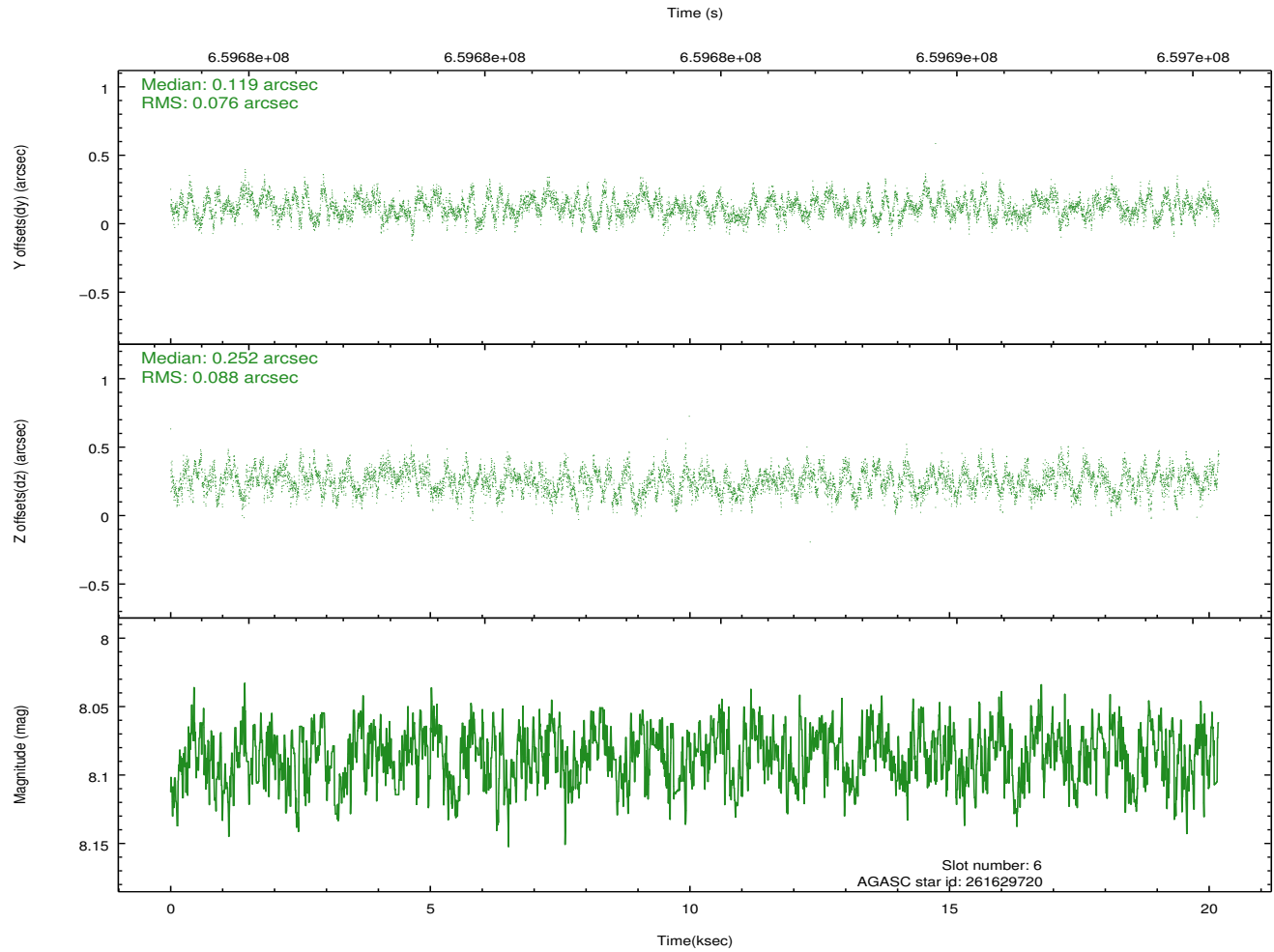
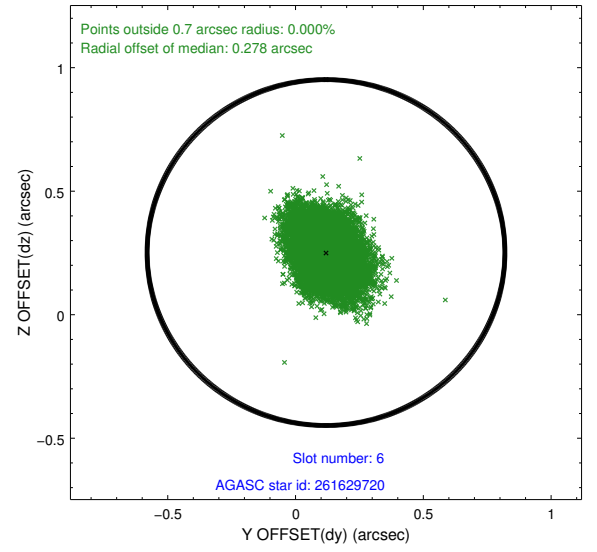
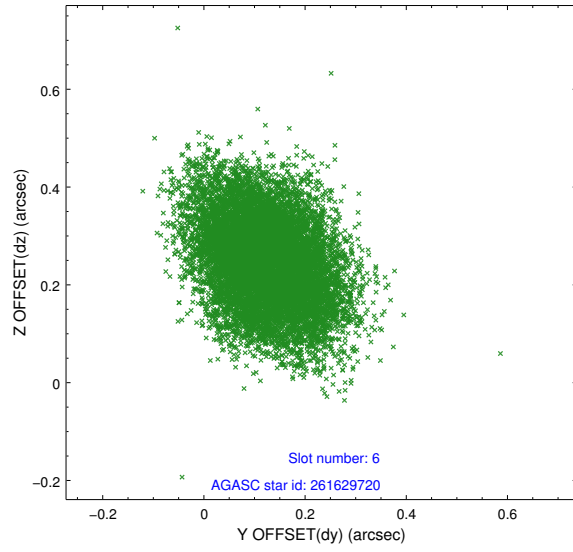
2.4.2 Slot 4



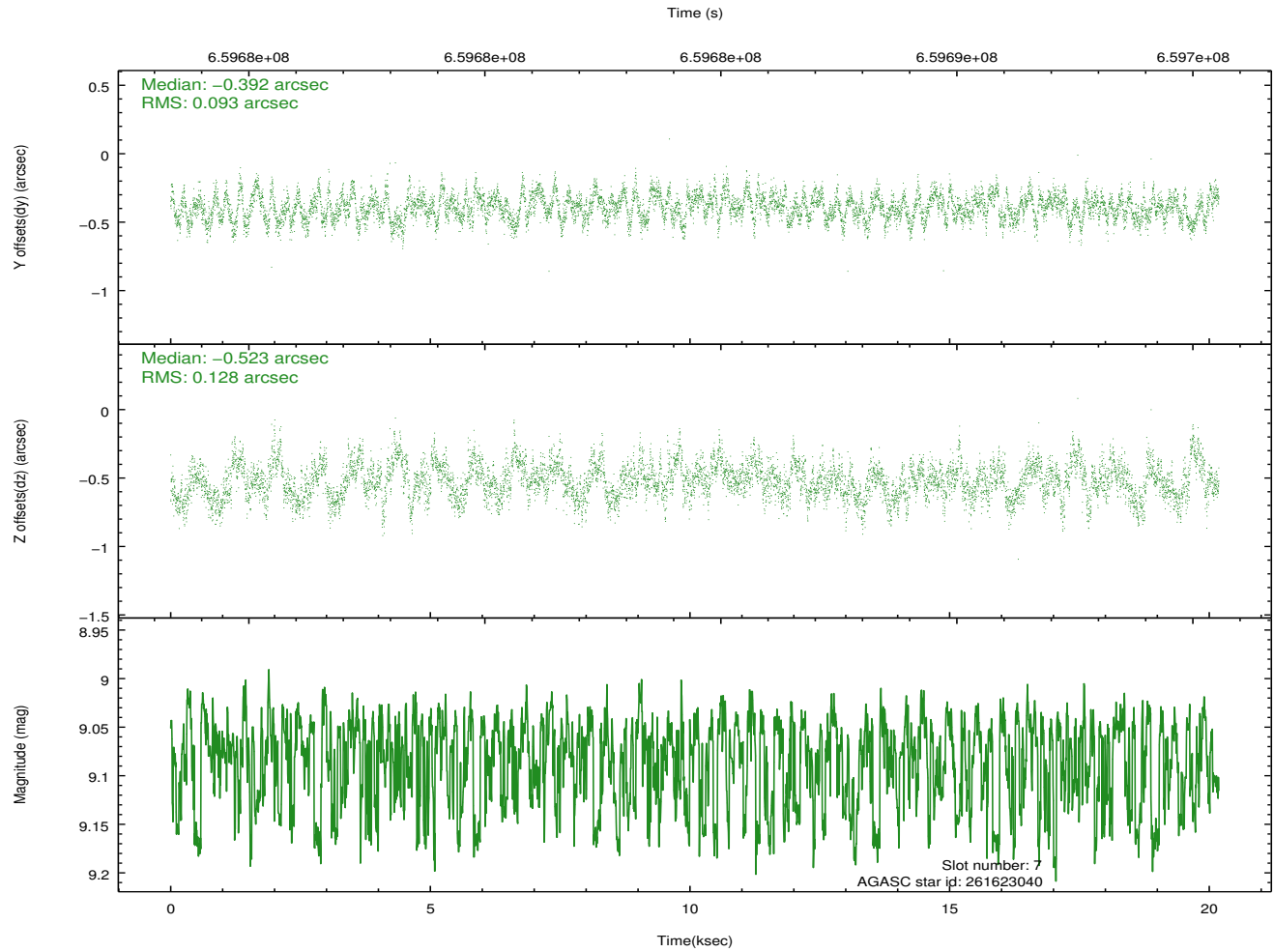
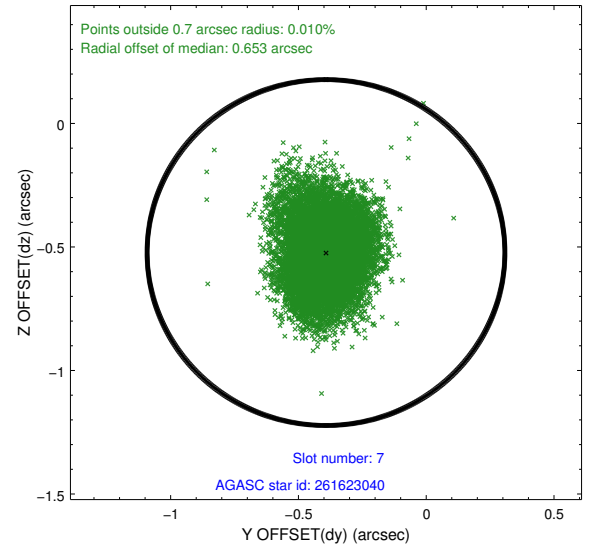
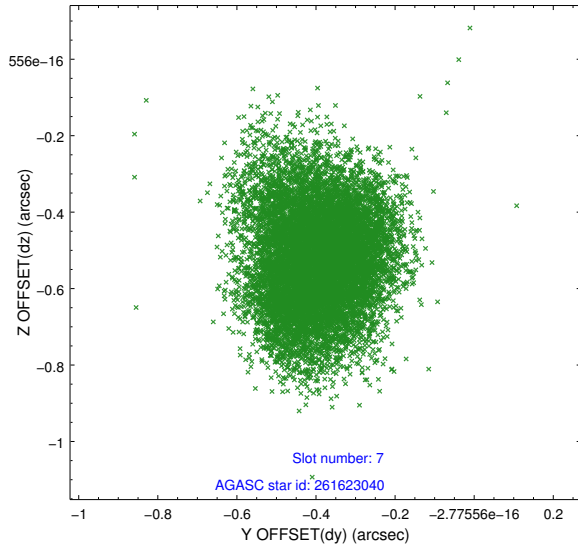
2.4.3 Slot 5



2.4.4 Slot 6

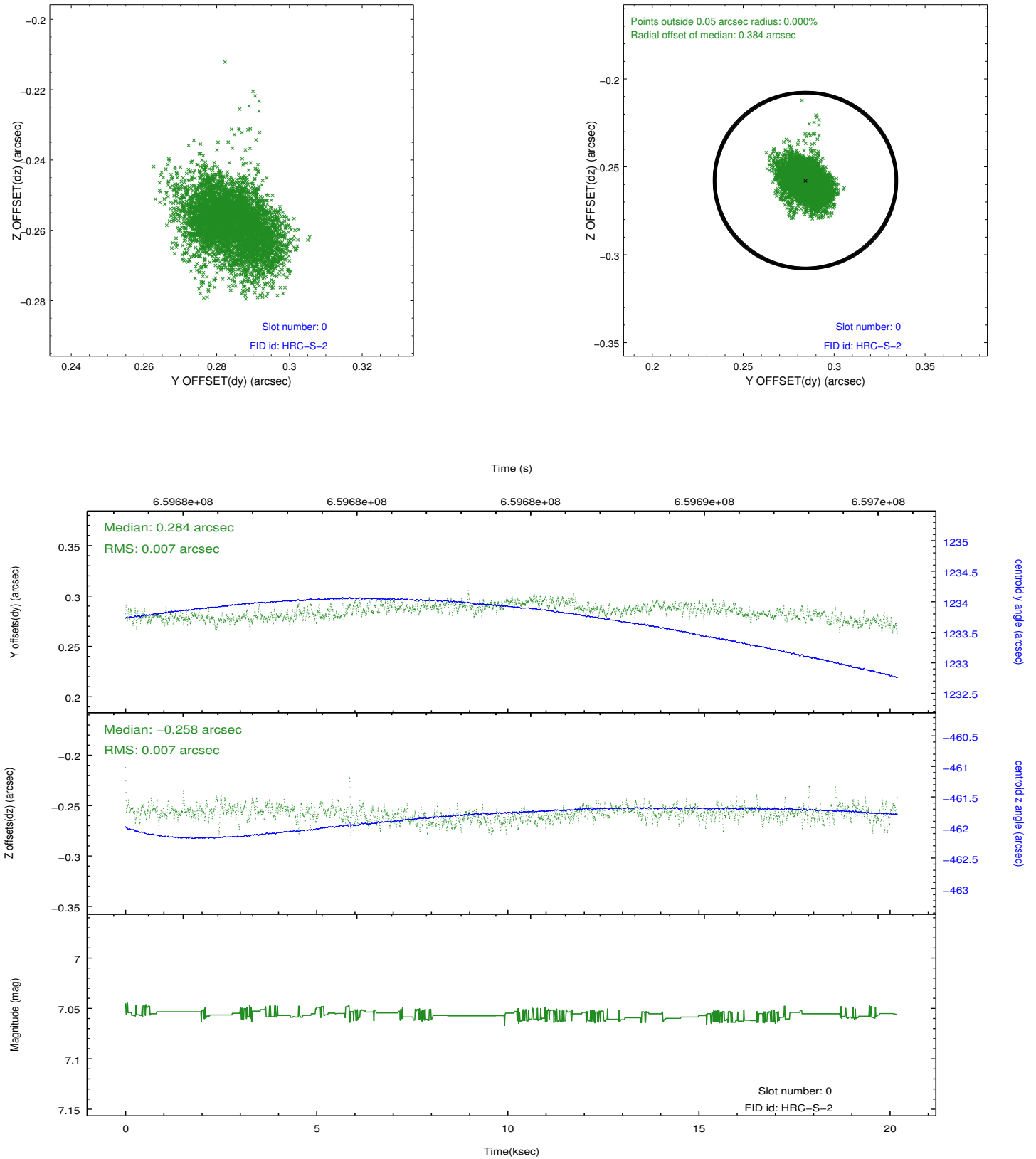


2.4.5 Slot 7

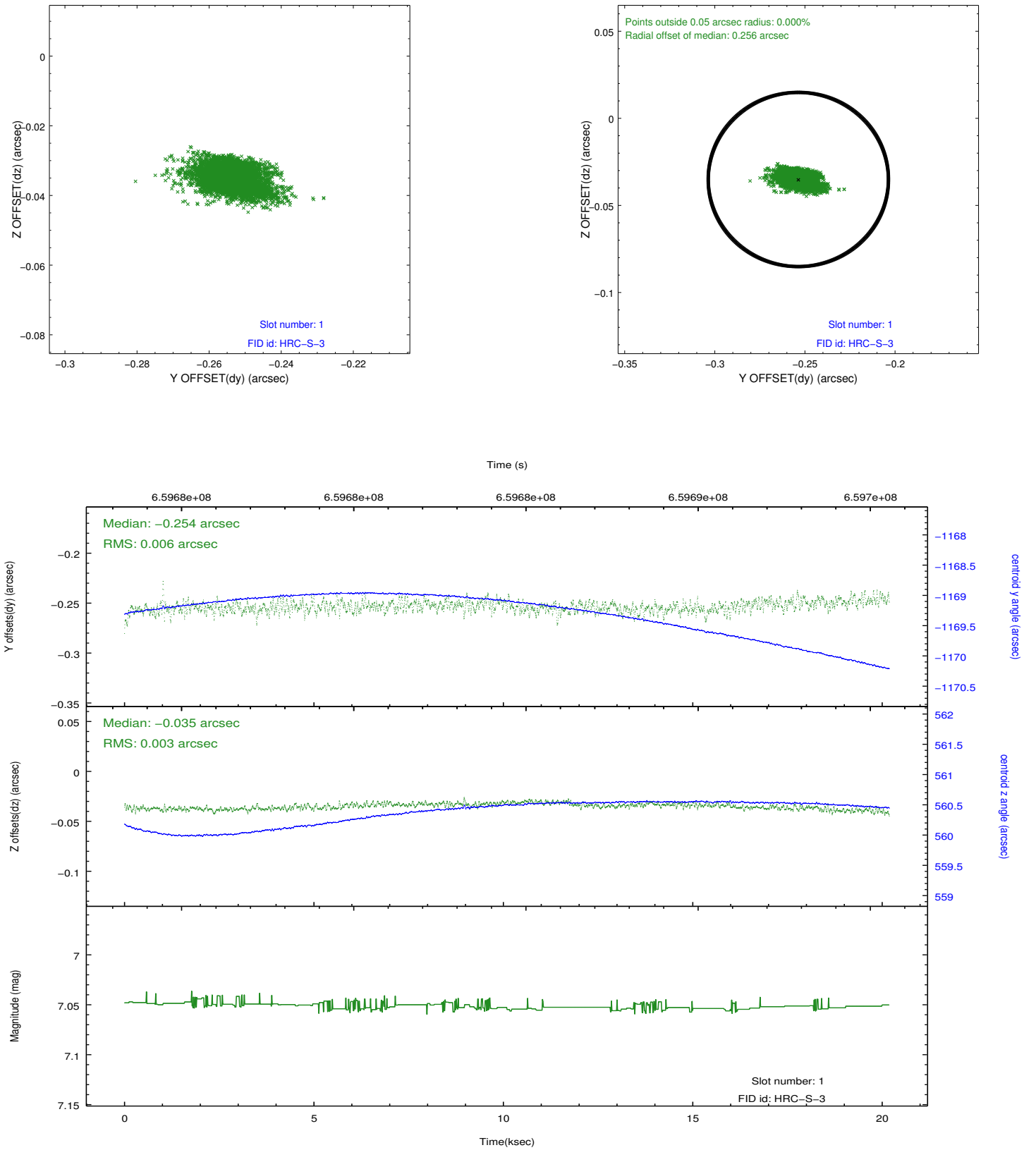


2.5 FID Slots

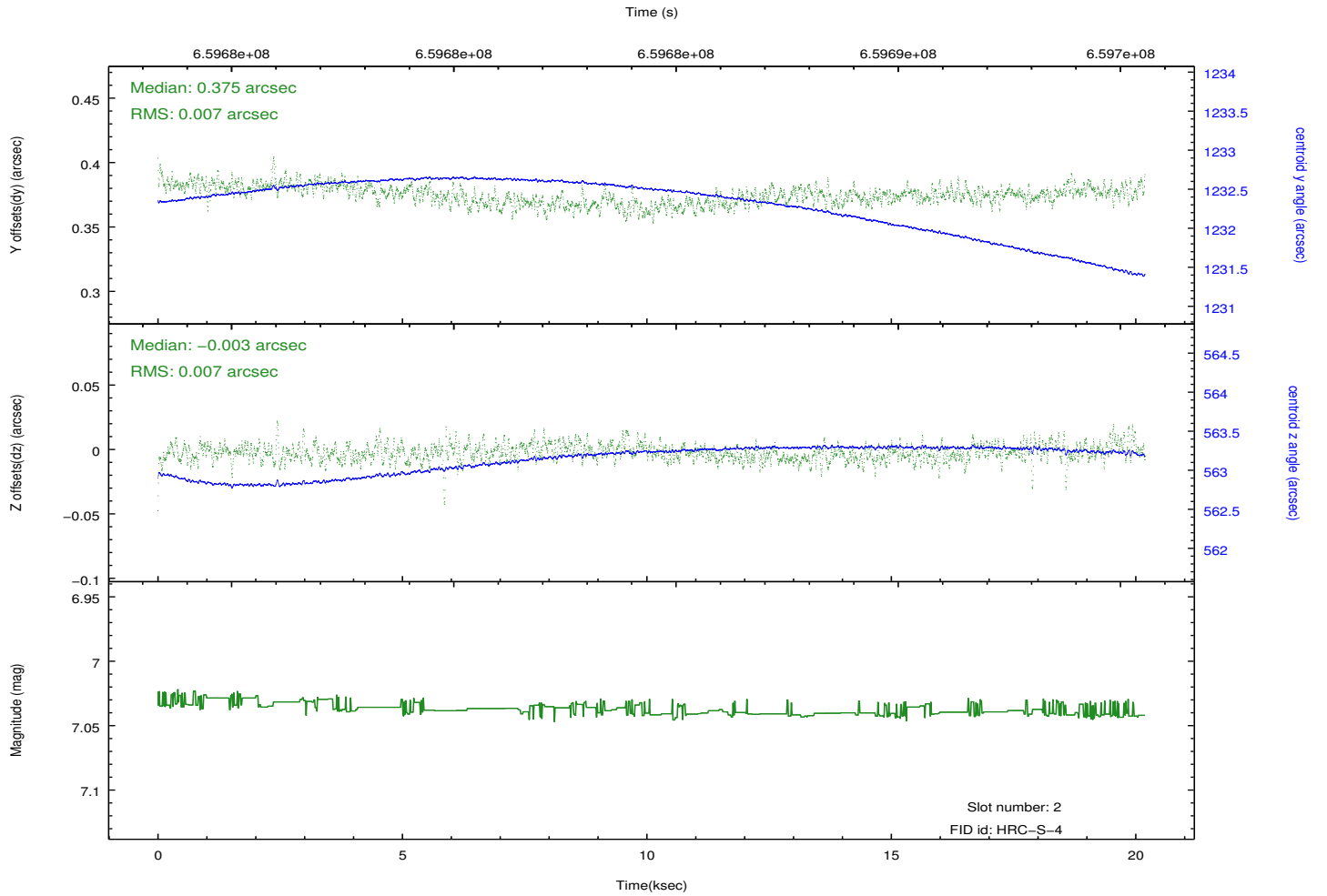
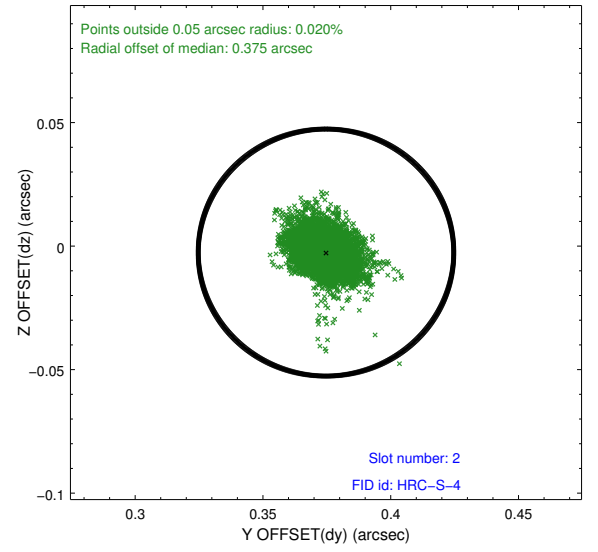
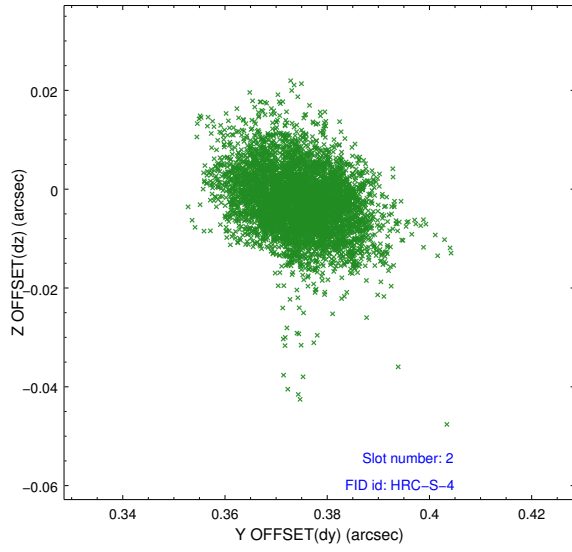
2.5.1 Slot 0



2.5.2 Slot 1

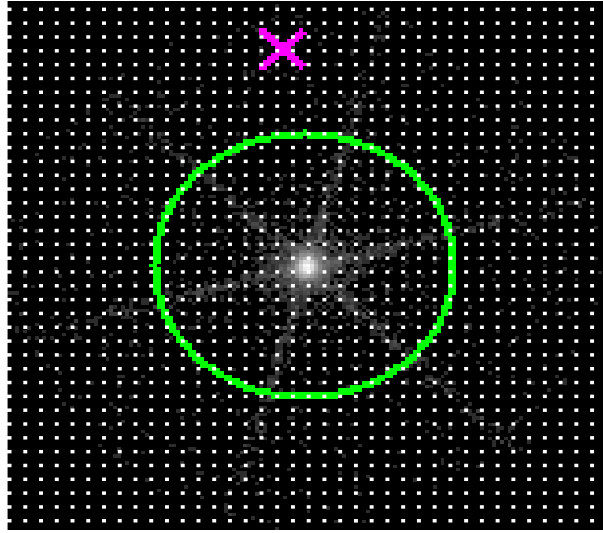


2.5.3 Slot 2

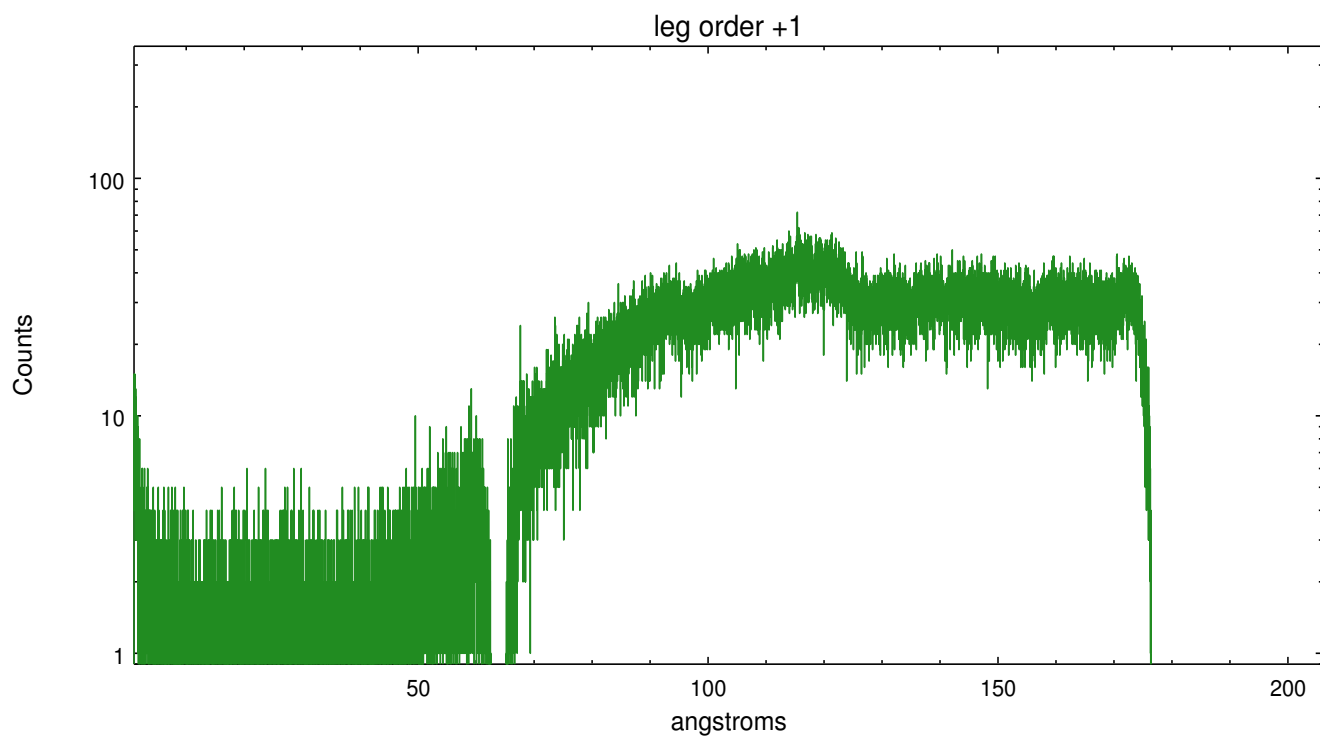
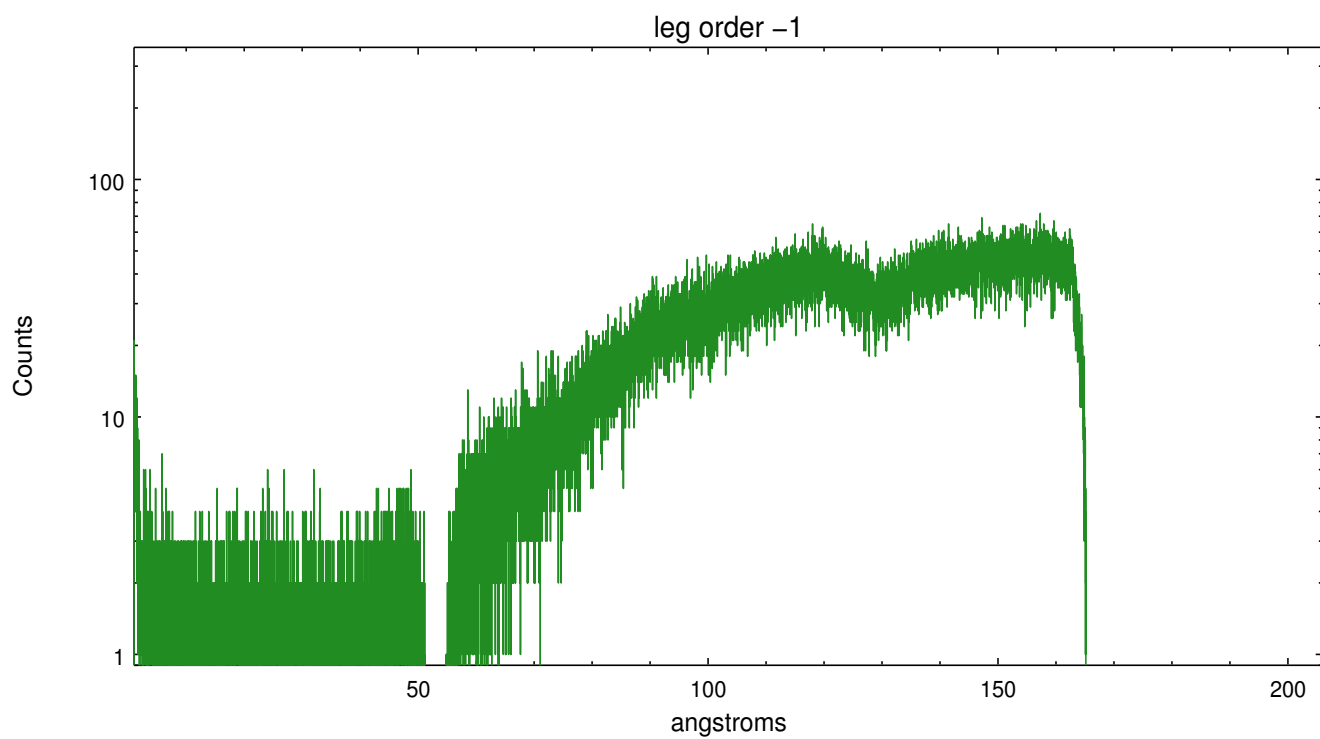


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2018.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.187632452846

A.2 Comments