

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17323 - L2 Version 1
Chandra X-Ray Center

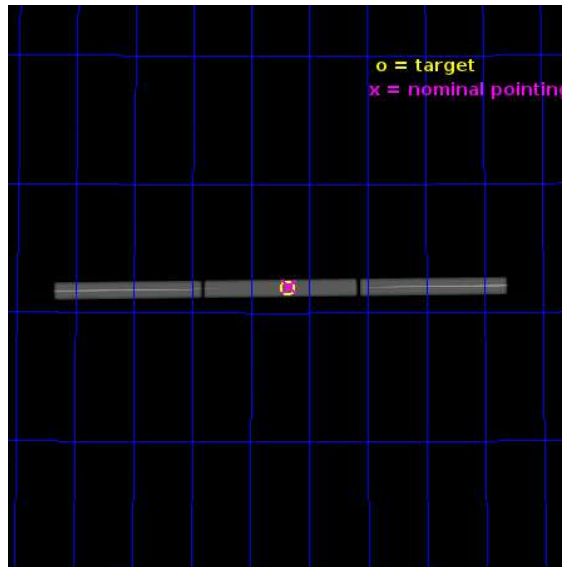
L2 Processing Date : Apr 10 2016

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1 Front

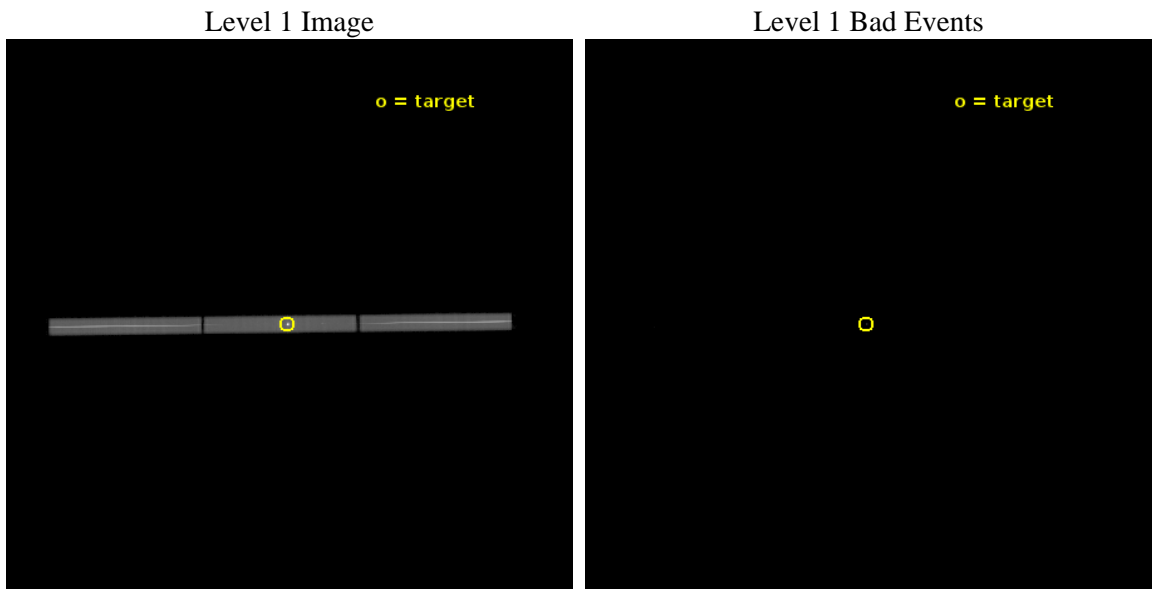
seq_num	291196	Sequence number
obs_id	17323	Observation id
title	AO-16 LETG/HRC-S Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.08470072103	Nominal RA [deg]
dec_nom	29.098438515151	Nominal Dec [deg]
roll_nom	179.21251592073	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20187.632403851	[s]
livetime	19974.19346348	Ontime multiplied by DTCOR
l2events	2134135	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	20187.632403851	[s]
caldsver	4.7.1	 	l1events	2566722	Number of level 1 events
date	2016-04-10T13:21:24	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32632.25, 32763.91)	src1a sky pixel position

2.1.3 Events

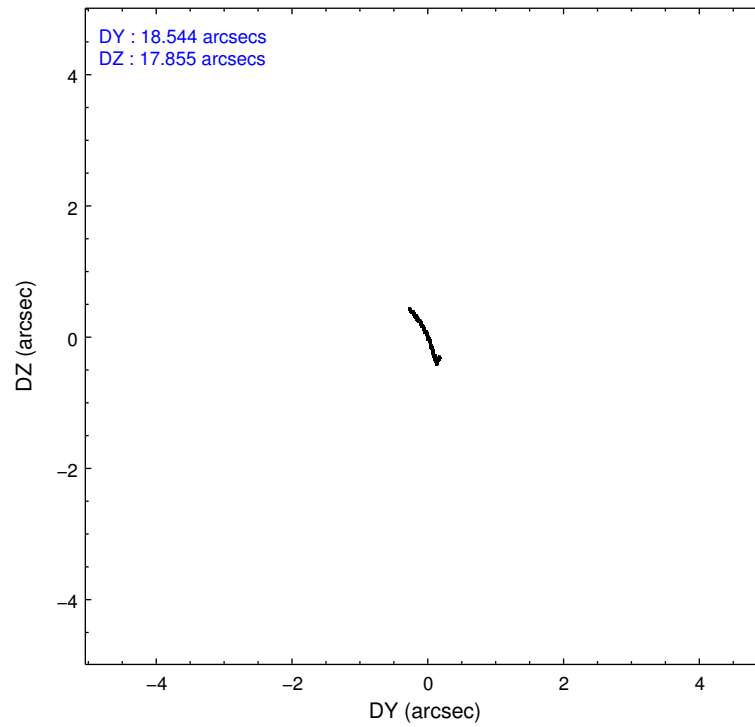
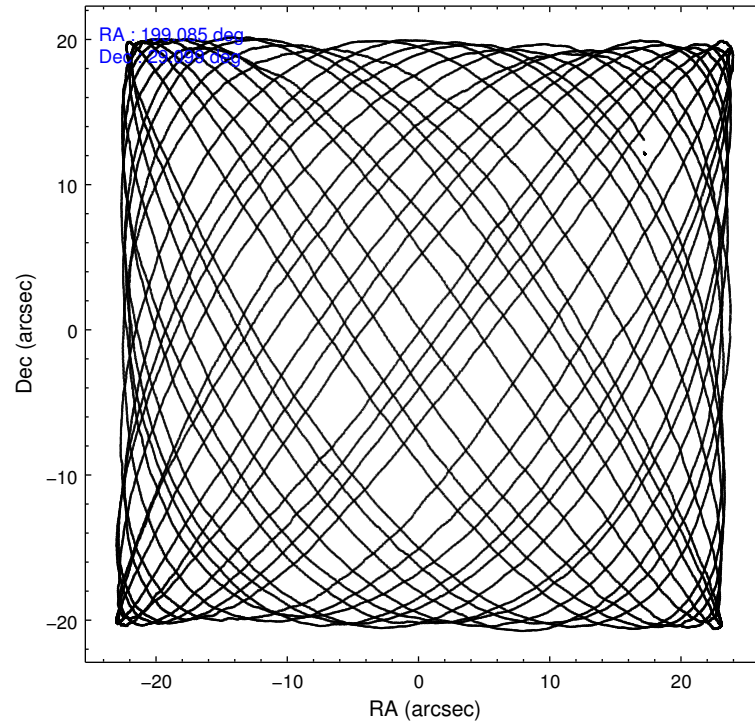
Level 1 Events

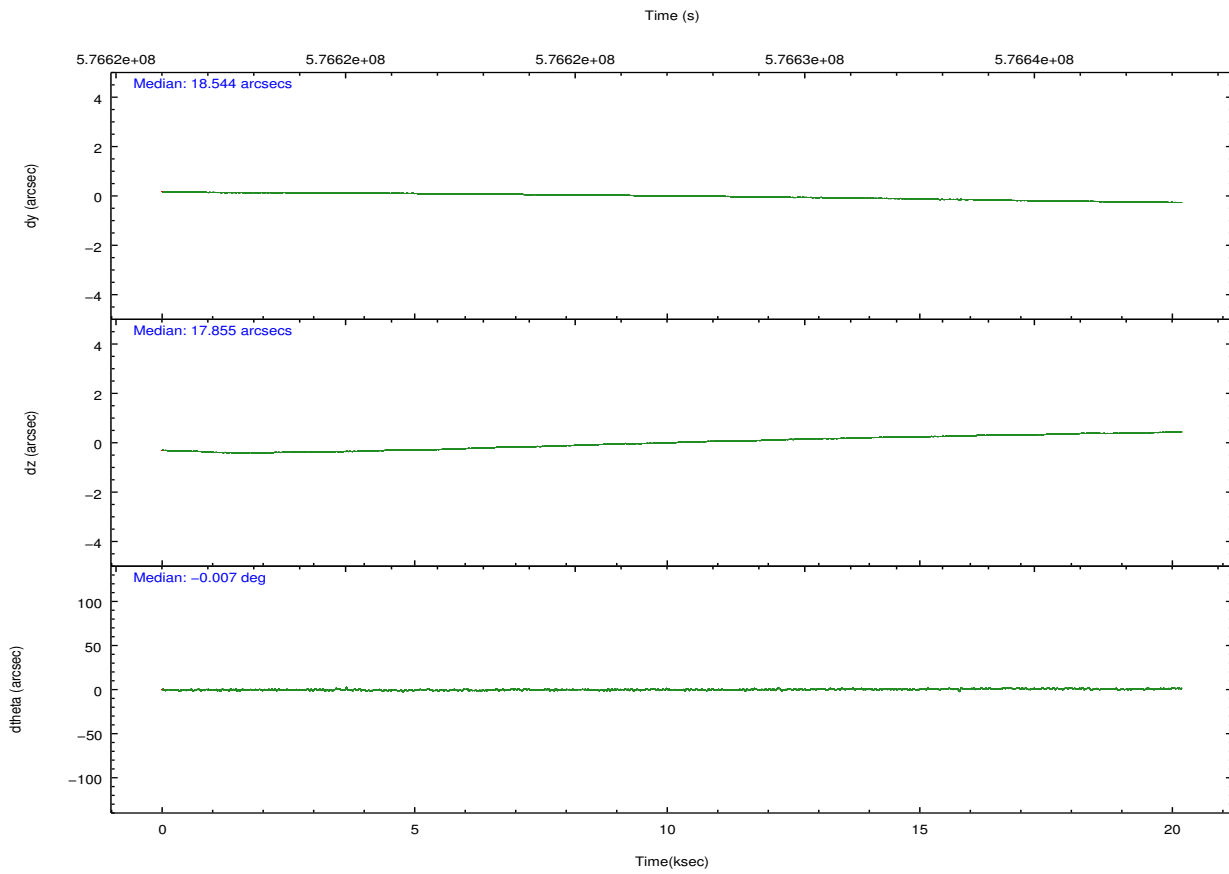
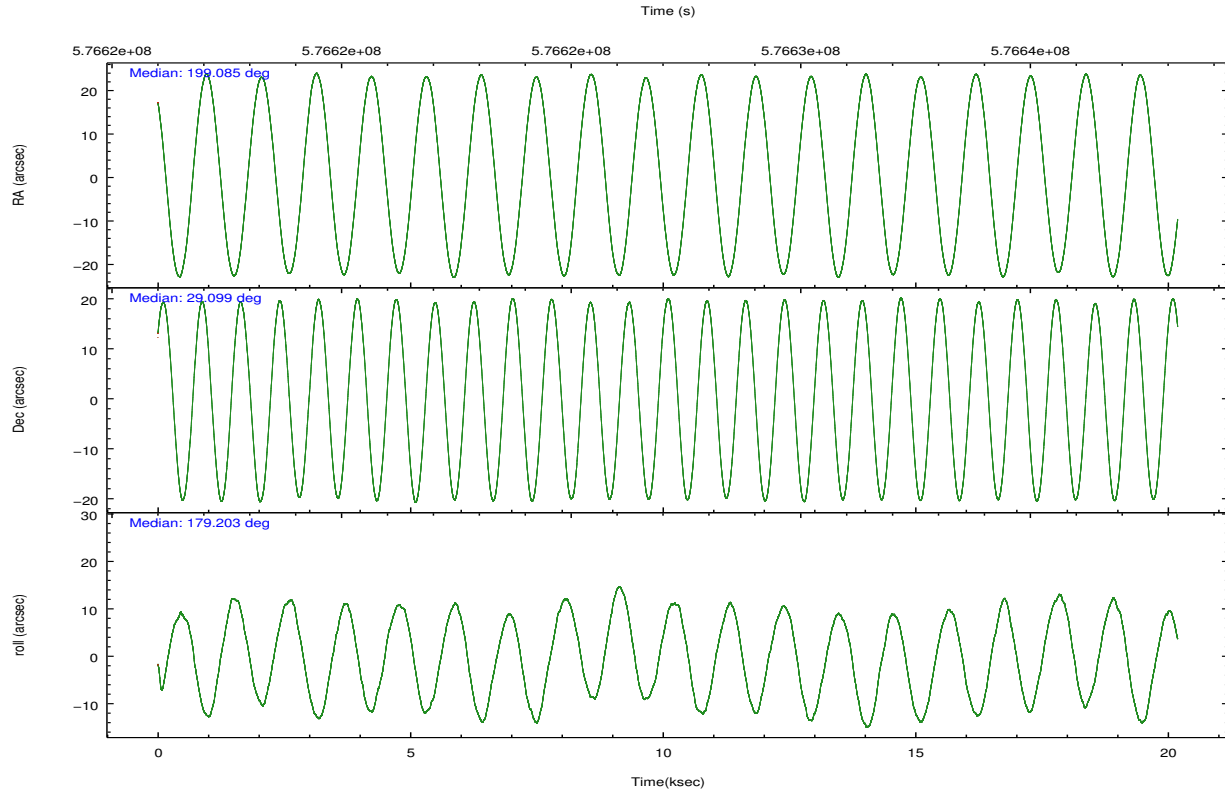
	segment 1	segment 2	segment 3
level 1 events	889673	786014	891035
rejected events	12932	13630	12655
rejected %	1%	1%	1%

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	199.112809	199.0847007210314			
[deg] Pointing Dec	29.113676	29.09843851515125			
[deg] Pointing Roll	179.131511	179.212515920733			
[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)	576617208.184000	576616601.06635			
Observation start date	2016-04-09T19:25:40	2016-04-09T19:16:41			
[s] Observation end time (MET)	576637208.184000	576637568.46755			
Observation end date	2016-04-10T00:59:00	2016-04-10T01:06:08			

2.3 Aspect



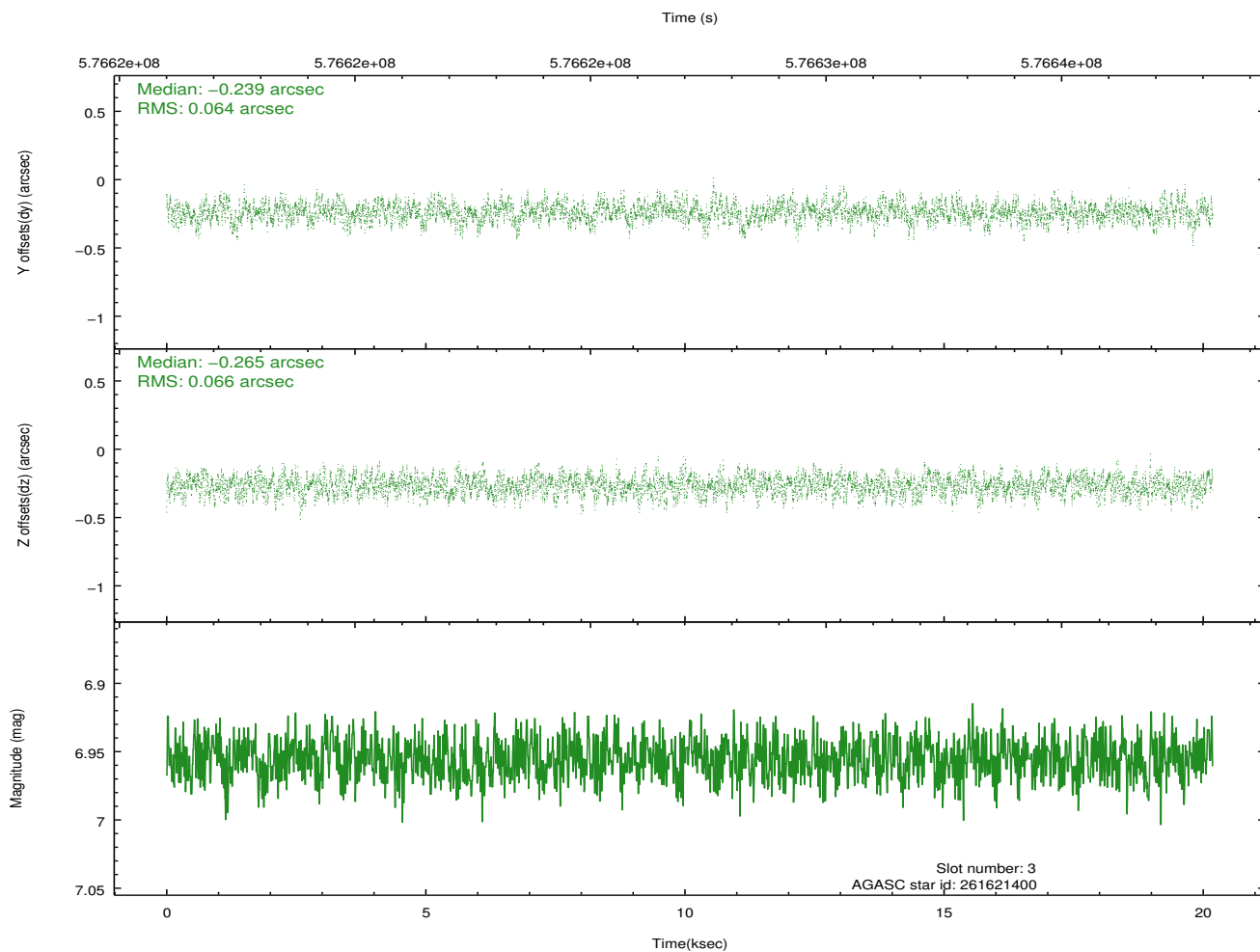
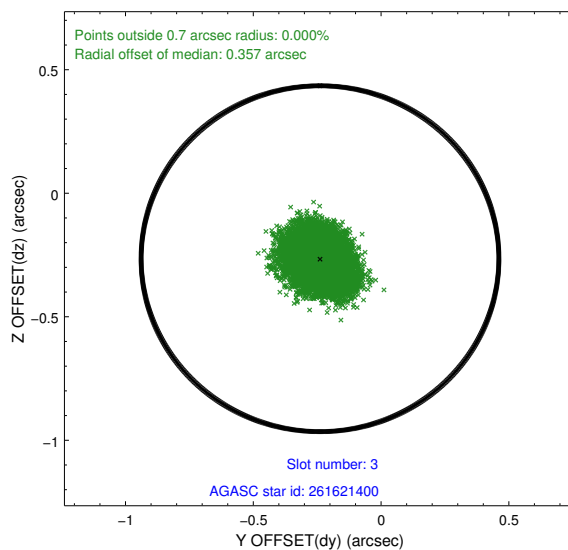
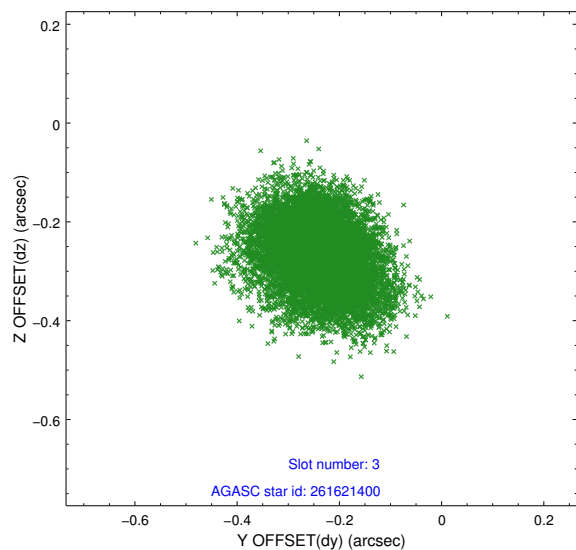


Slot Statistics

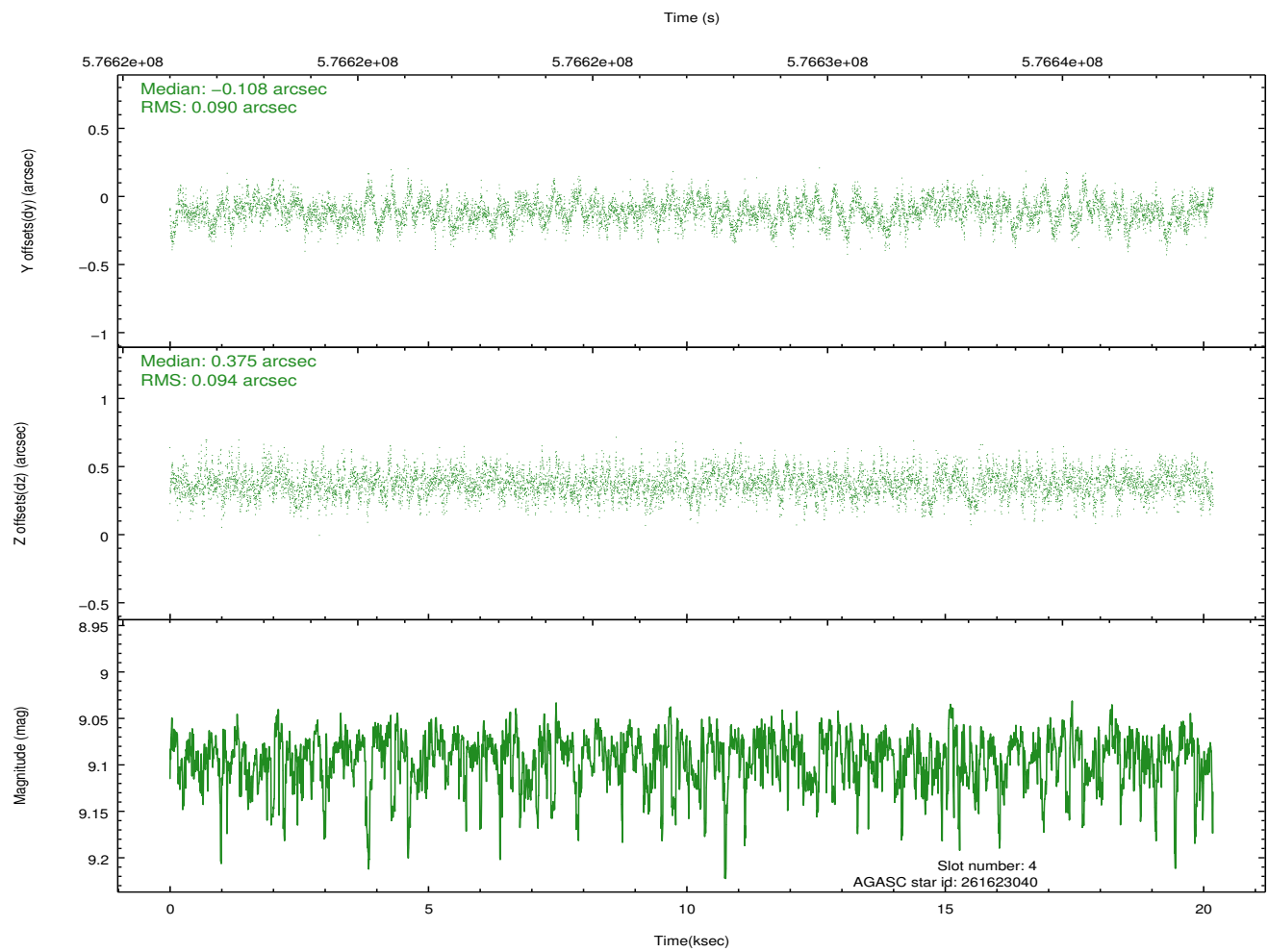
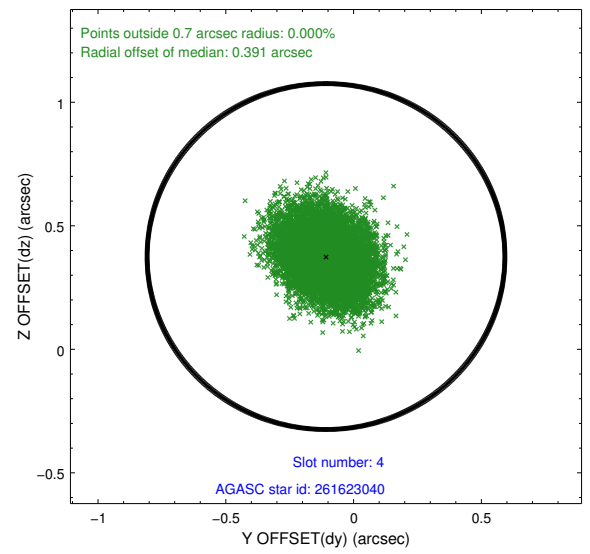
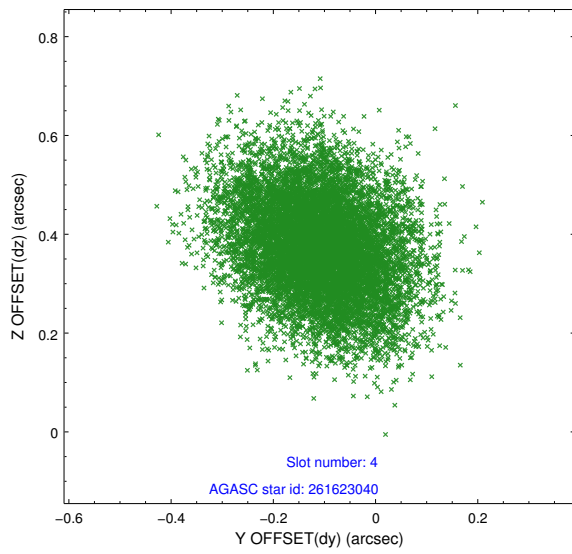
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.00	4925	-0.051	-0.202	0.010	0.016	0.000000	0.000000	-1173.11	-466.92
1	FID		HRC-S-2	6.98	4925	0.337	-0.111	0.006	0.012	0.000000	0.000000	1226.72	-459.41
2	FID		HRC-S-3	7.00	4924	0.103	0.011	0.012	0.020	0.000000	0.000000	-1175.50	562.73
3	GUIDE	used	261621400	6.96	9847	-0.239	-0.265	0.098	0.157	198.901600	28.741982	646.39	1347.74
4	GUIDE	used	261623040	9.09	9835	-0.108	0.375	0.139	0.227	198.792686	29.757643	1035.89	-2303.03
5	GUIDE	used	261624456	7.31	9849	-0.083	0.130	0.104	0.176	199.758056	28.567828	-2068.79	1926.68
6	GUIDE	used	261626352	8.60	9835	0.112	-0.180	0.148	0.270	198.417097	29.781420	2212.55	-2377.51
7	GUIDE	used	261629720	8.09	9844	0.316	-0.053	0.100	0.165	199.236176	29.044452	-391.54	243.26

2.4 Star Slots

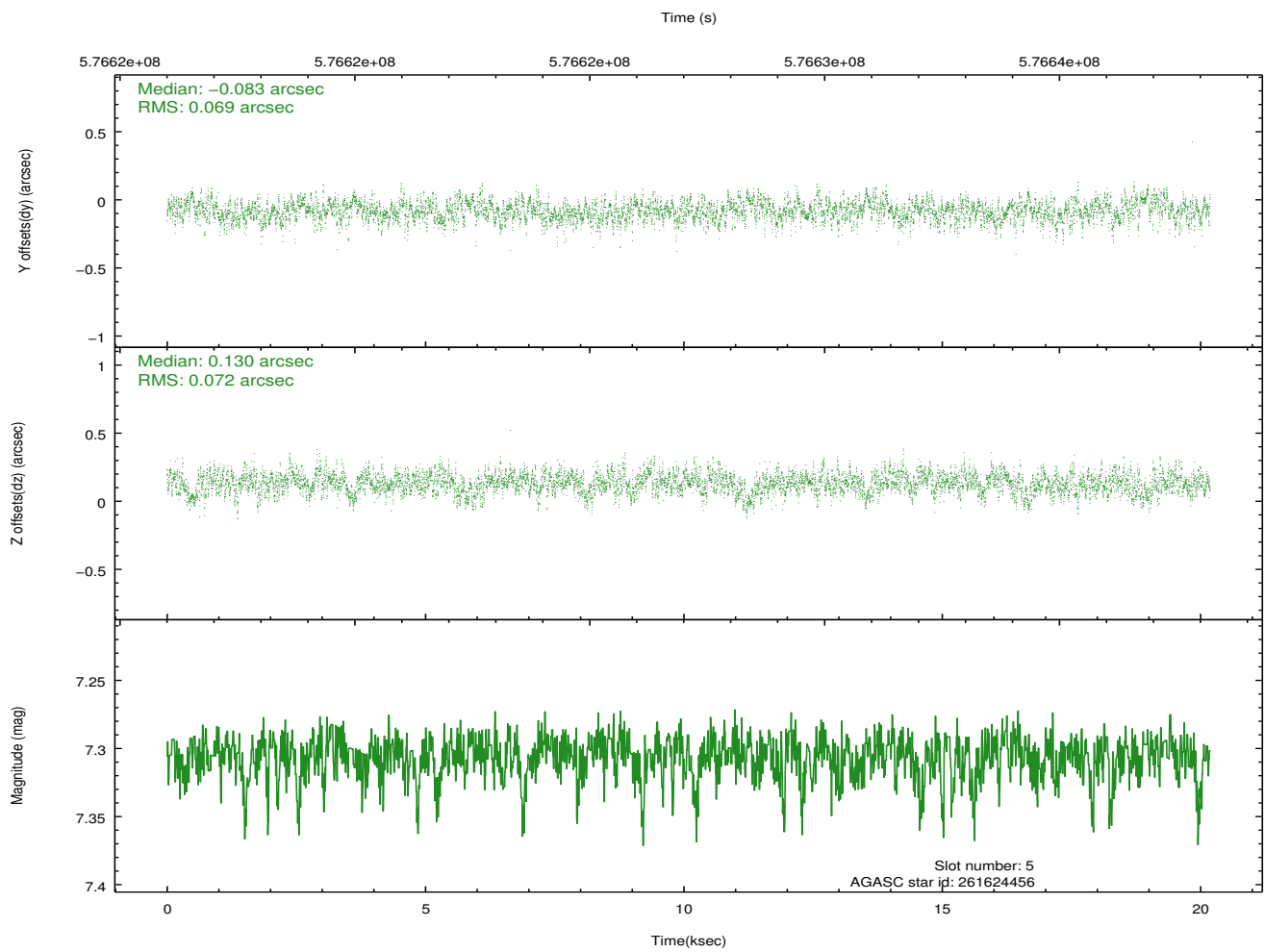
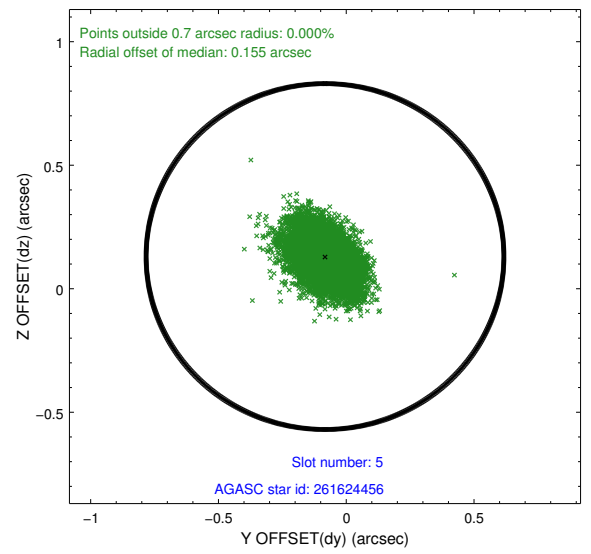
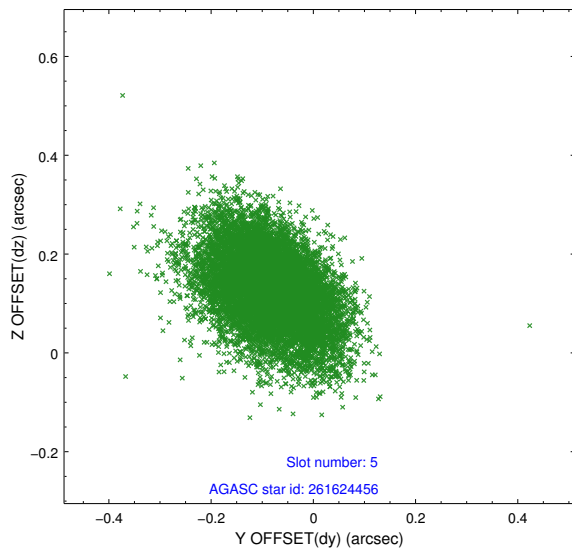
2.4.1 Slot 3



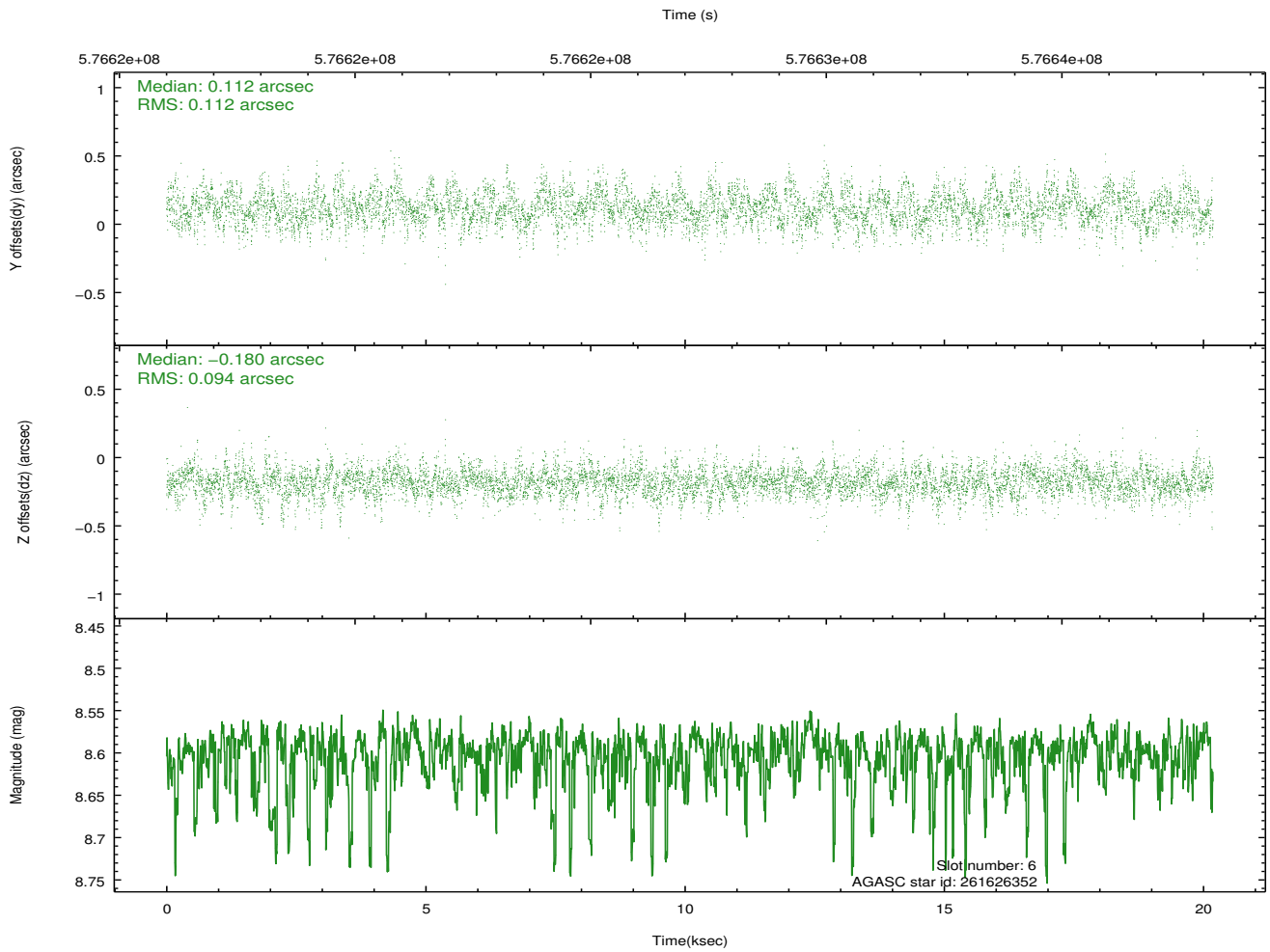
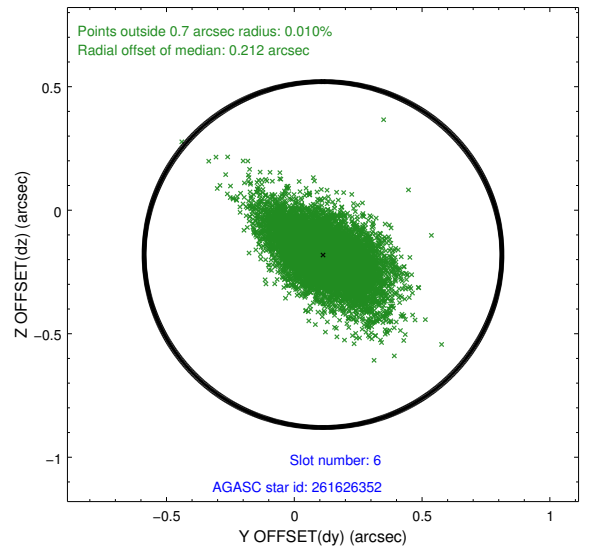
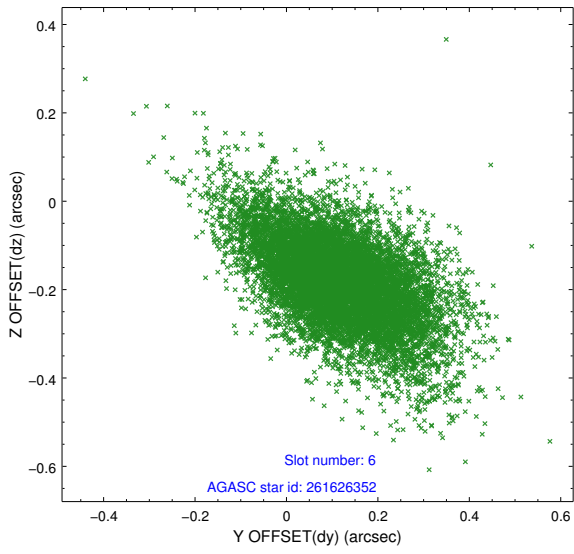
2.4.2 Slot 4



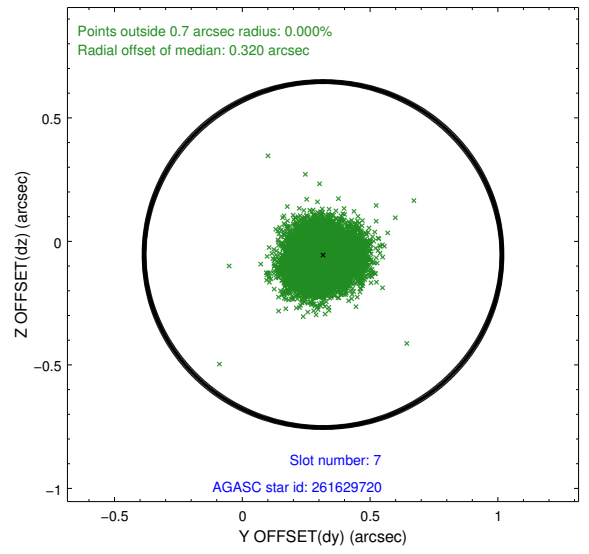
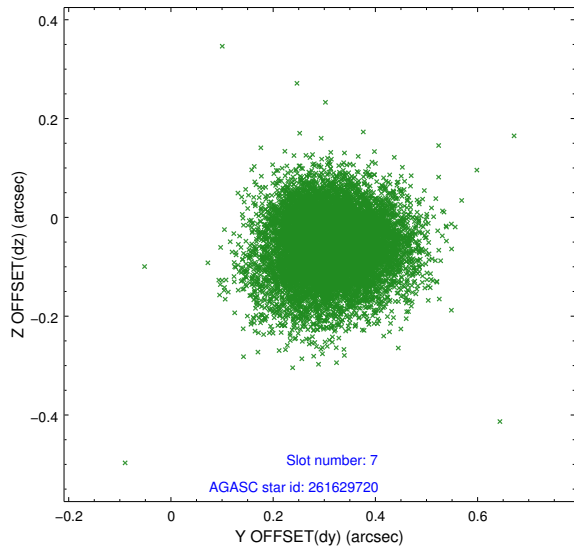
2.4.3 Slot 5



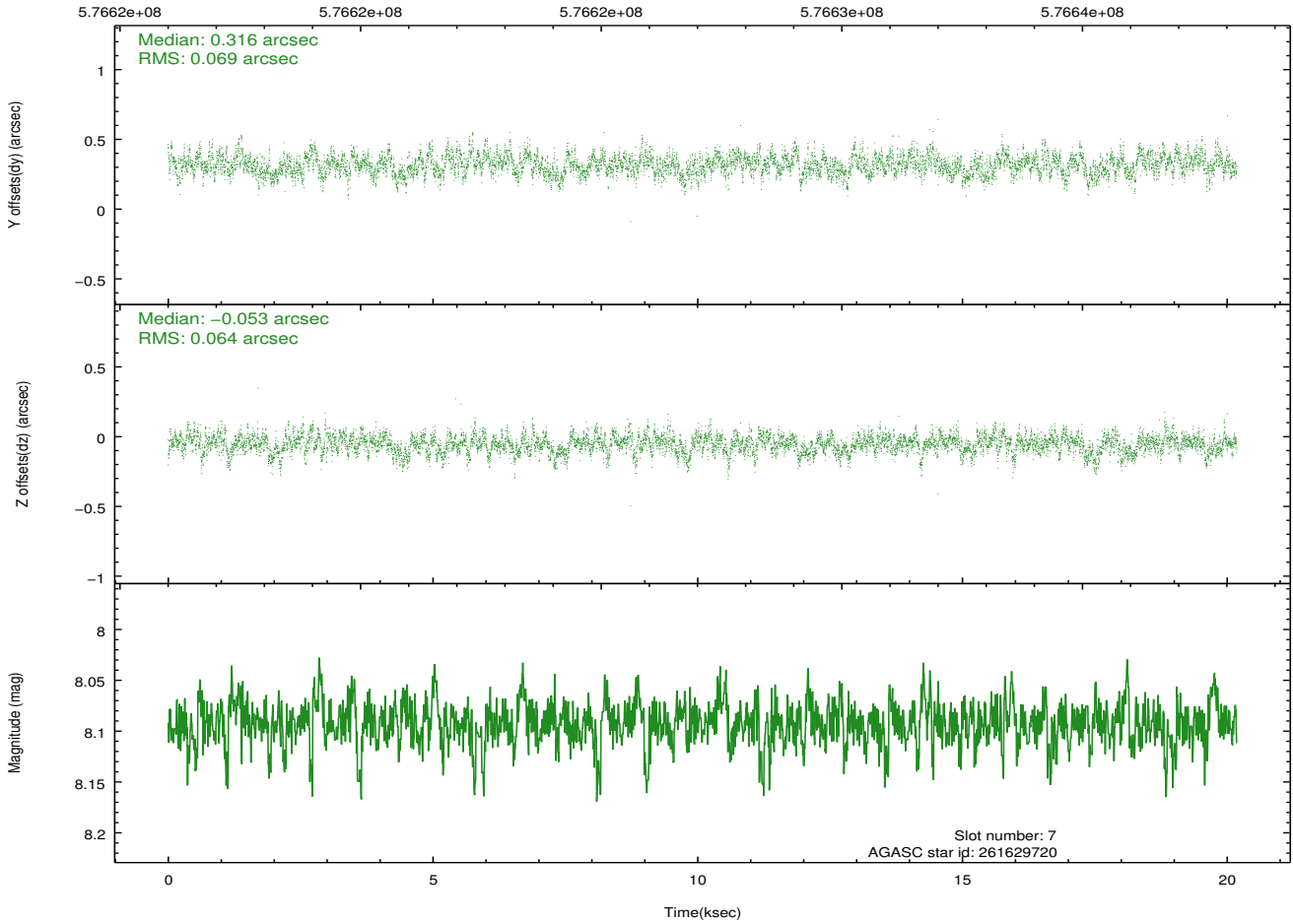
2.4.4 Slot 6



2.4.5 Slot 7

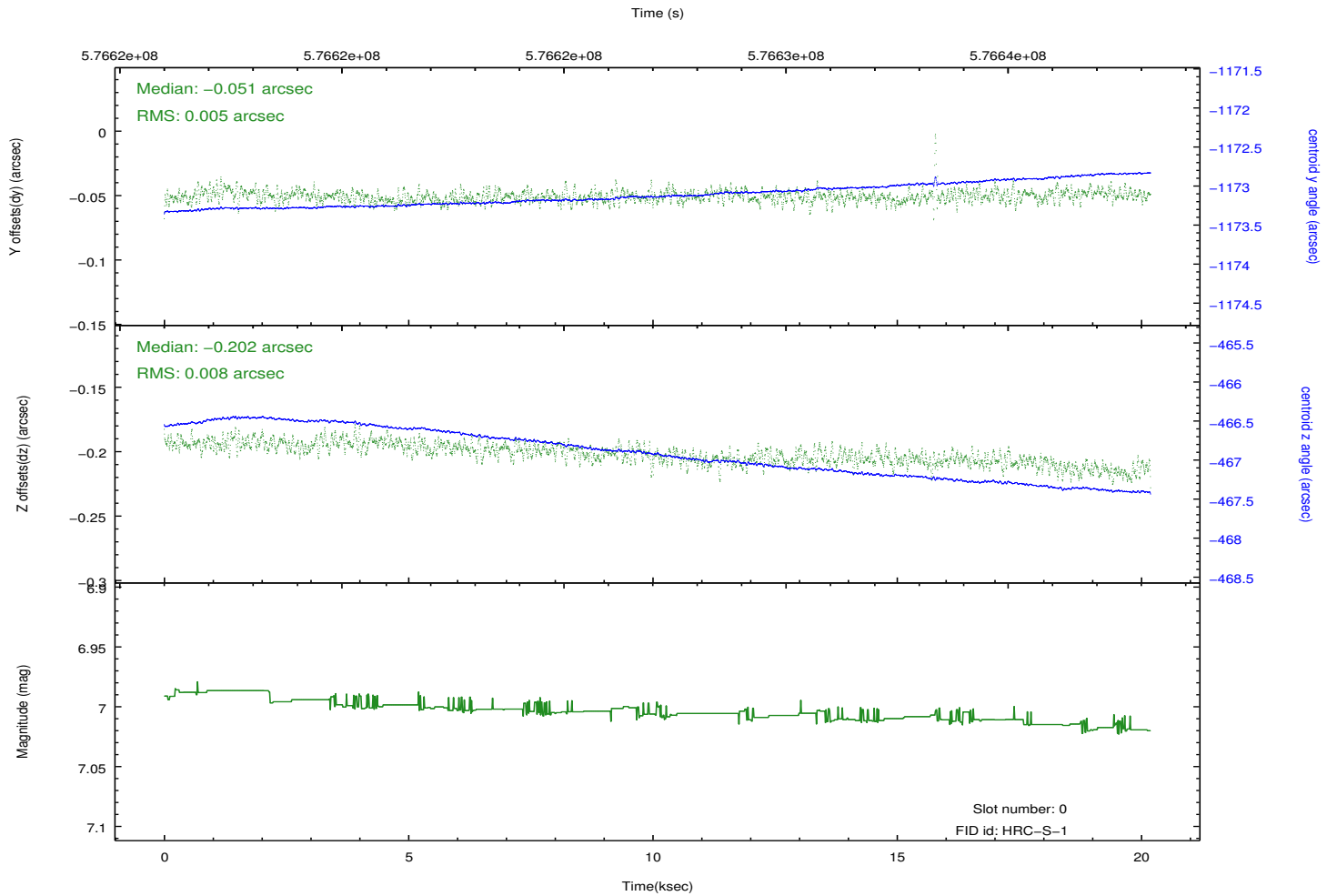
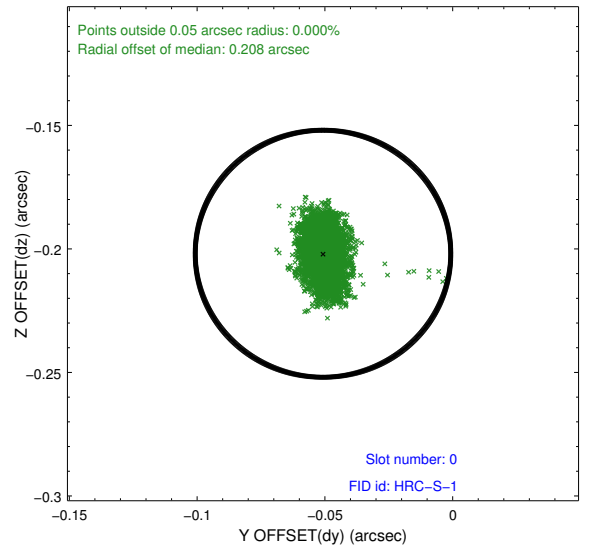
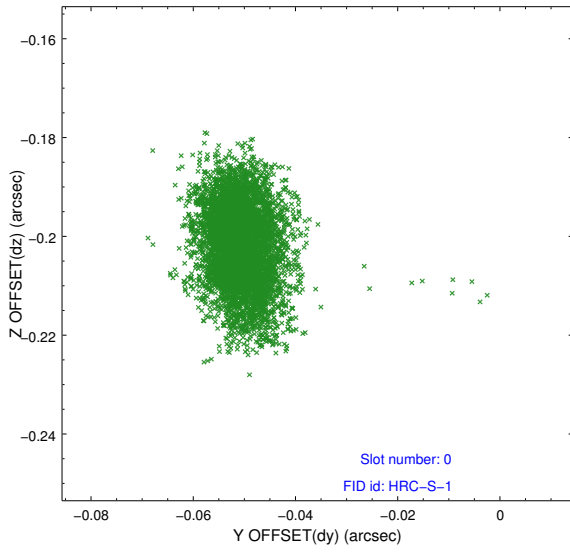


Time (s)

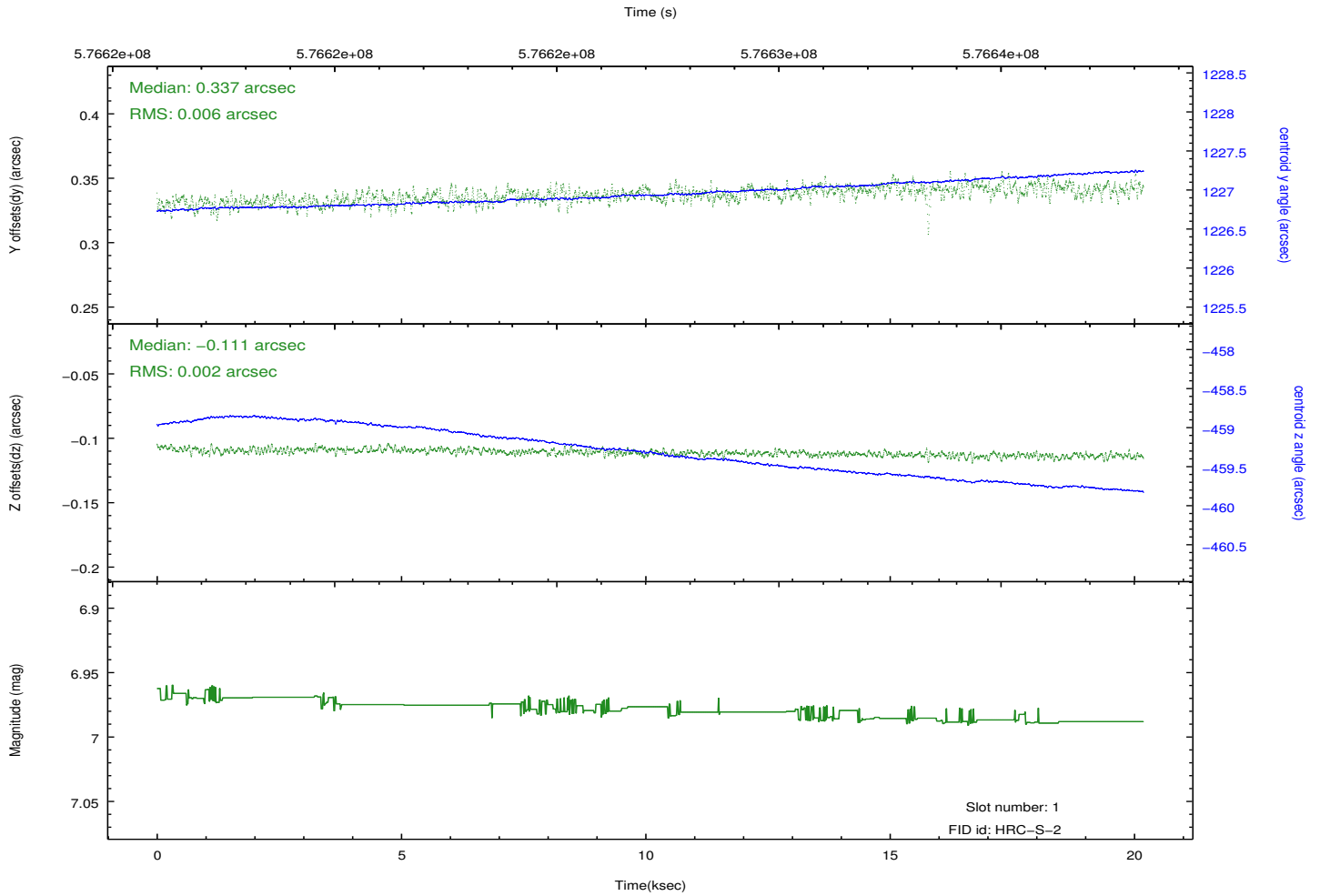
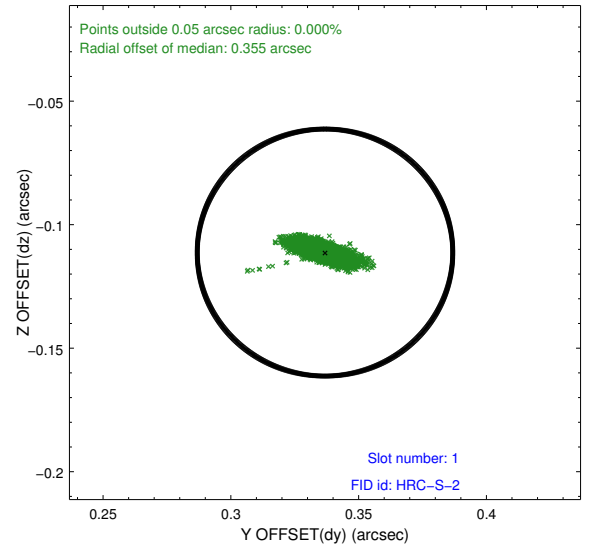
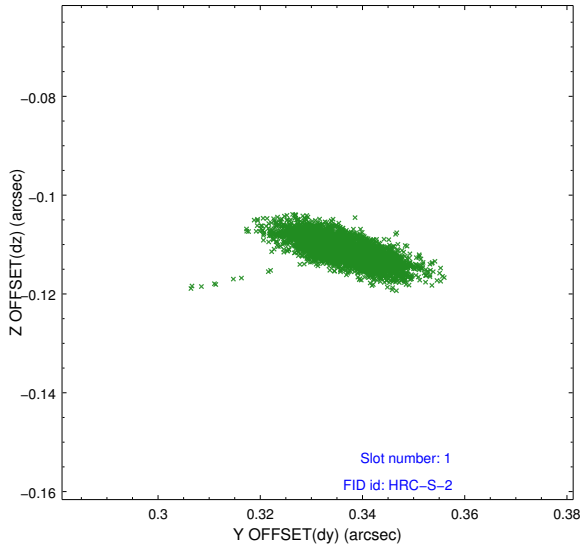


2.5 FID Slots

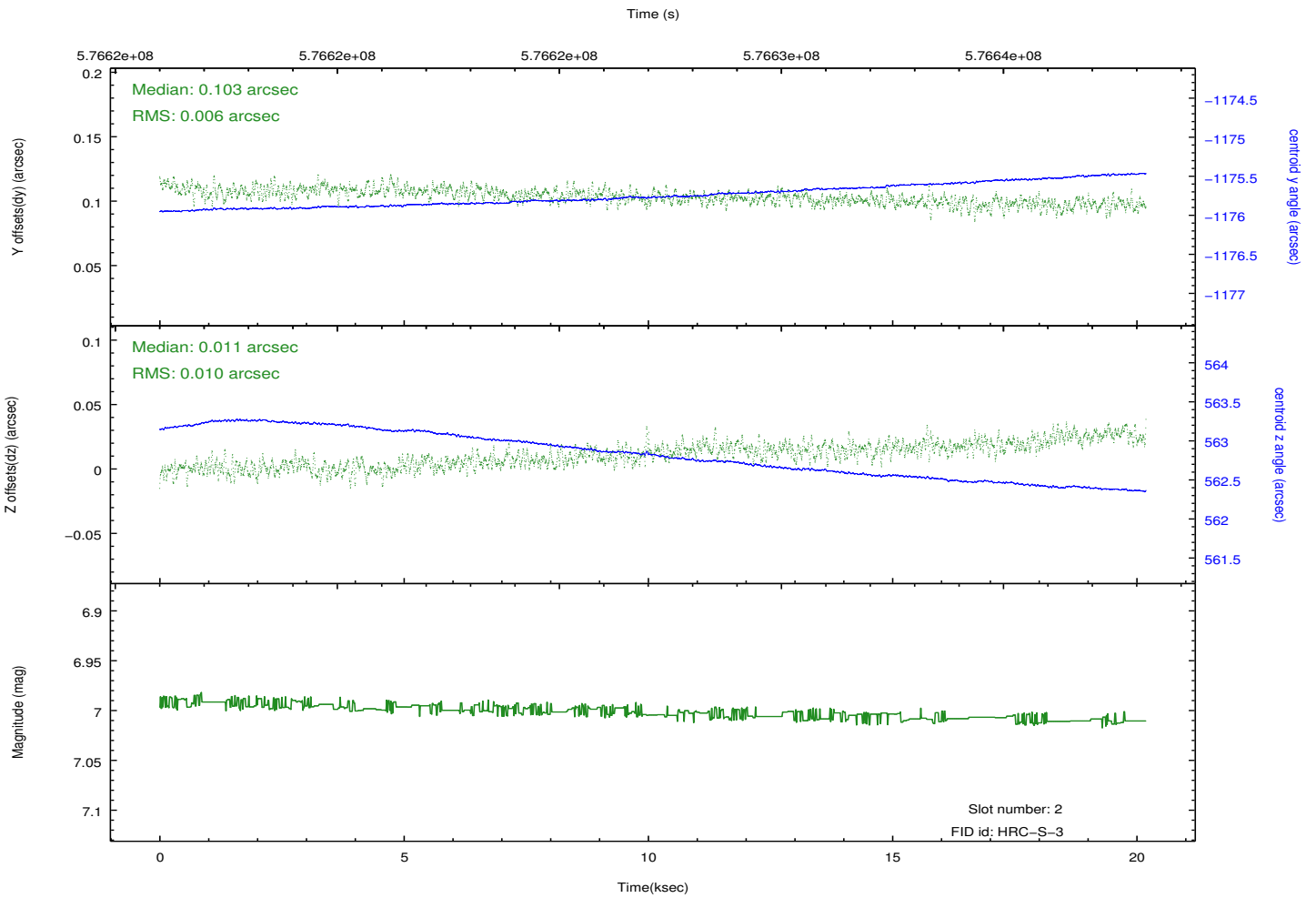
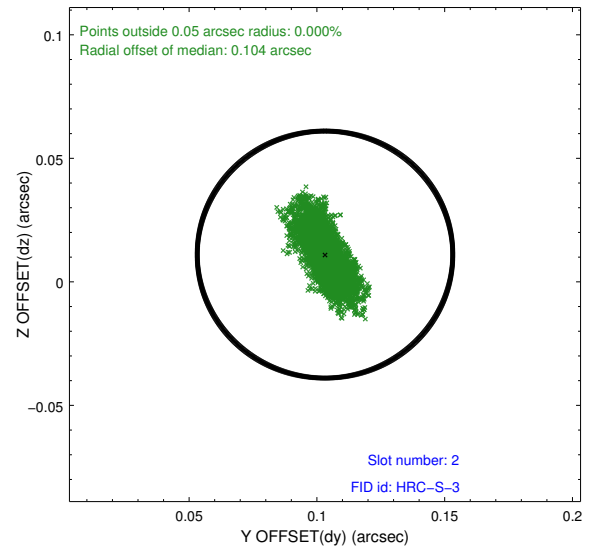
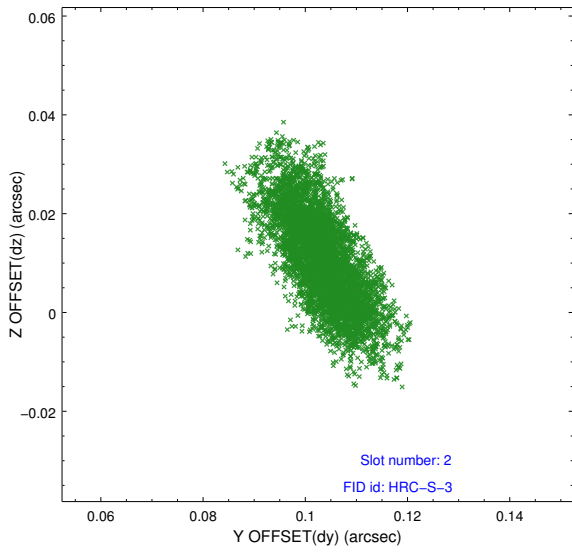
2.5.1 Slot 0



2.5.2 Slot 1

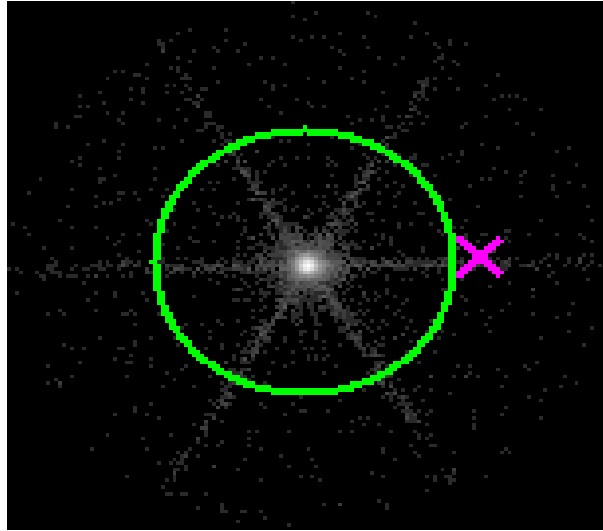


2.5.3 Slot 2

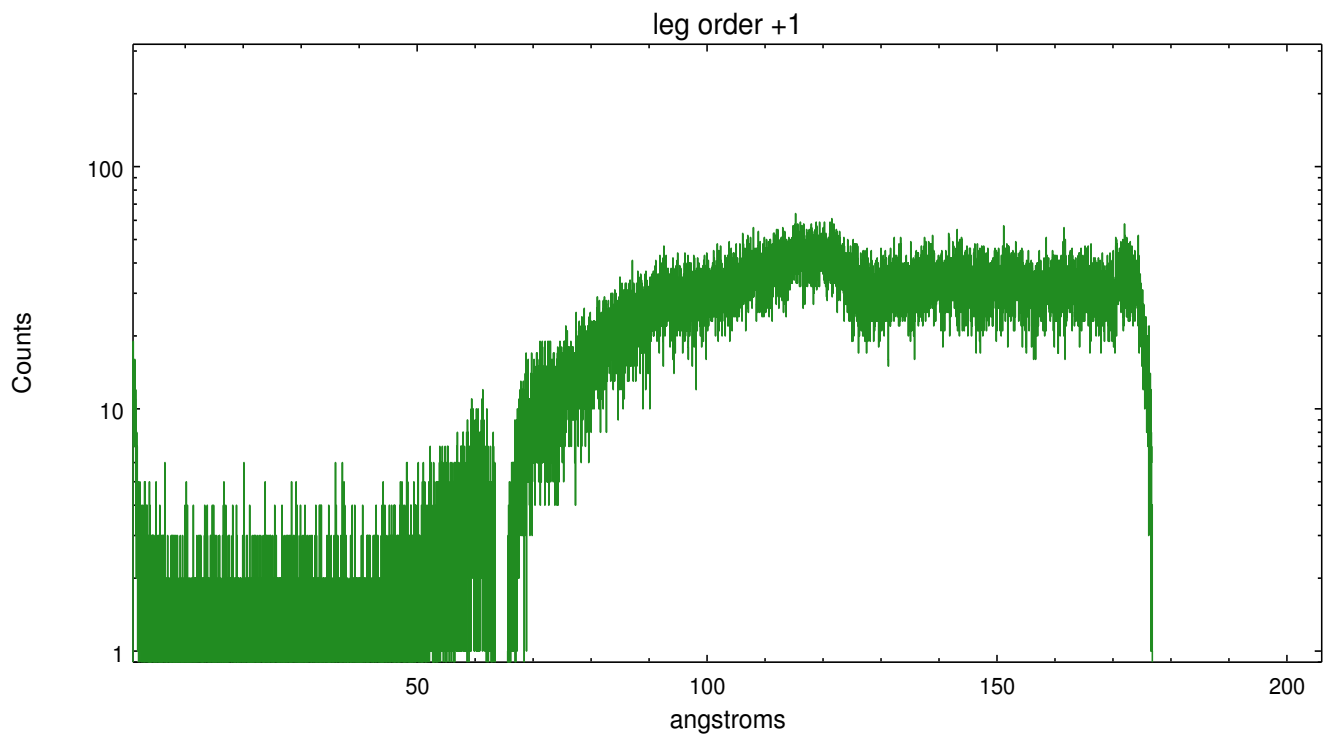
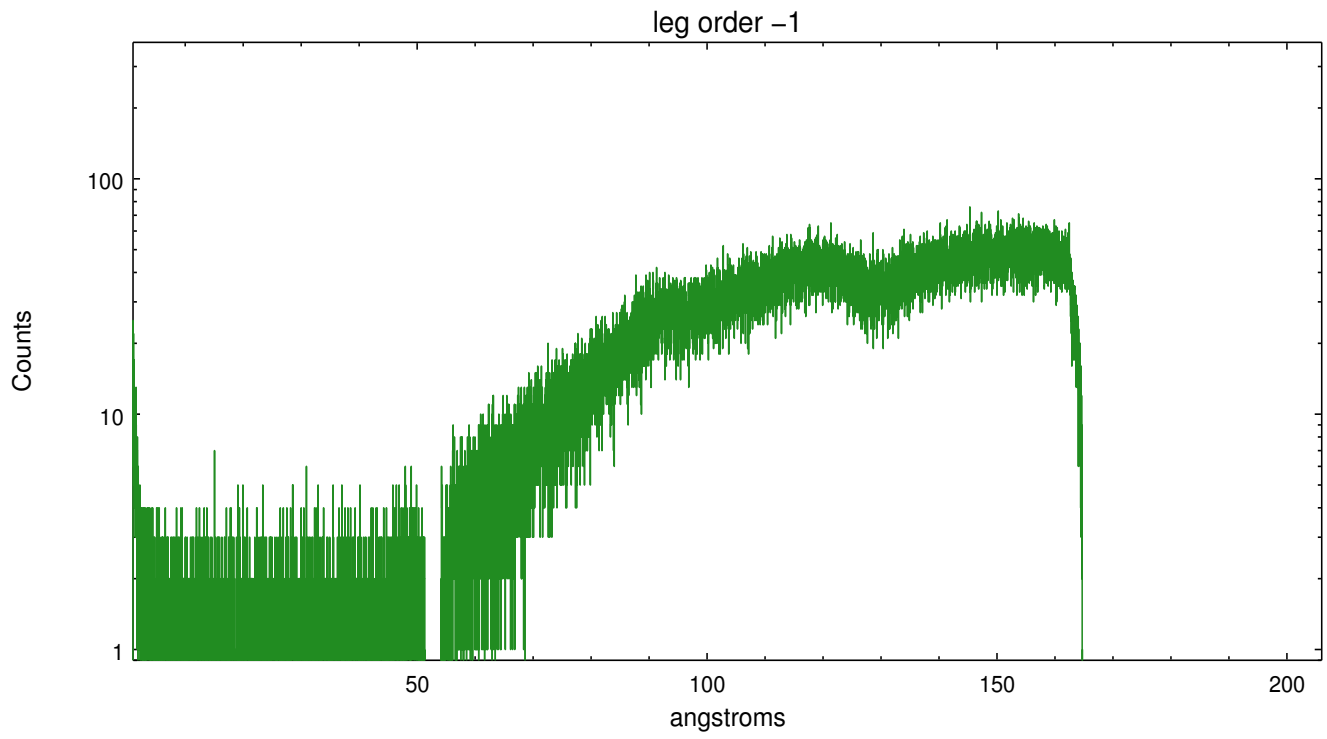


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.187632403851

A.2 Comments