

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18365 - L2 Version 1
Chandra X-Ray Center

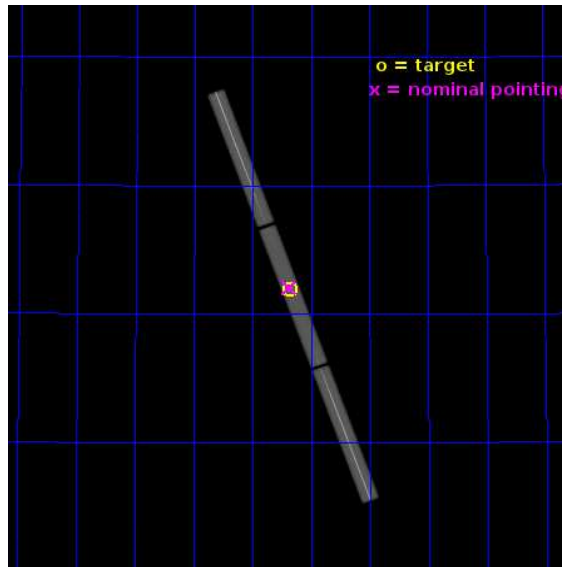
L2 Processing Date : Jan 8 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

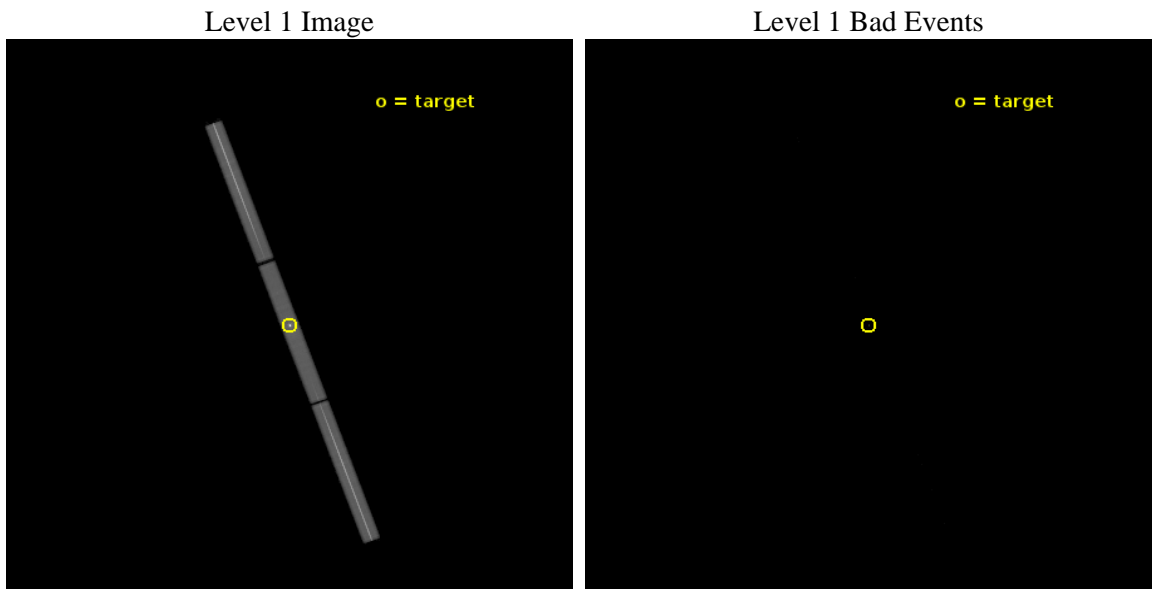
seq_num	291260	Sequence number
obs_id	18365	Observation id
title	AO-17 LETG/HRC-S Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.09245536563	Nominal RA [deg]
dec_nom	29.102997769781	Nominal Dec [deg]
roll_nom	69.868040521954	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20155.601143718	[s]
livetime	19950.464329319	Ontime multiplied by DTCOR
l2events	2069083	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	10.4.3	Processing system revision	ontime	20155.601143718	[s]
caldsver	4.7.0	 	l1events	2524524	Number of level 1 events
date	2016-01-08T16:55:27	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32821.81, 32637.13)	src1a sky pixel position

2.1.3 Events

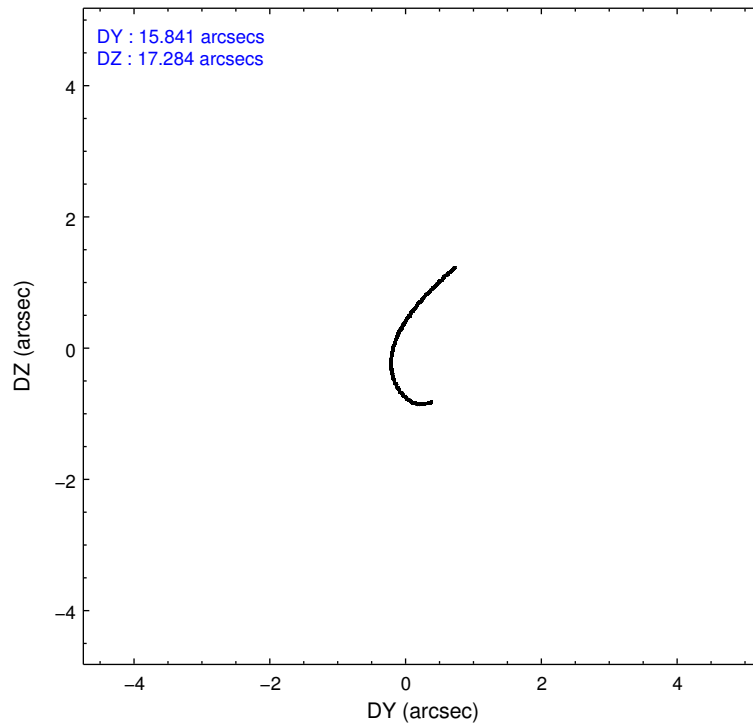
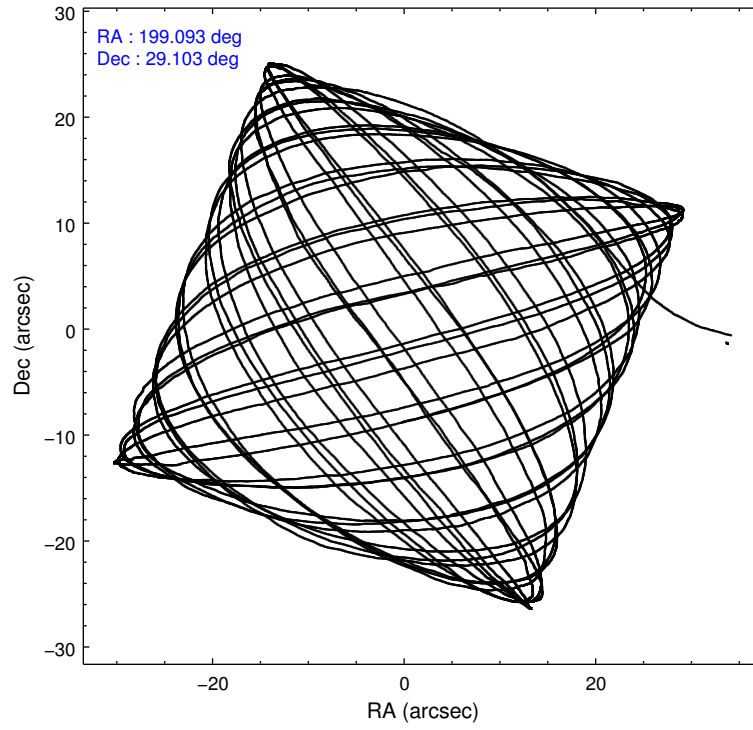
Level 1 Events

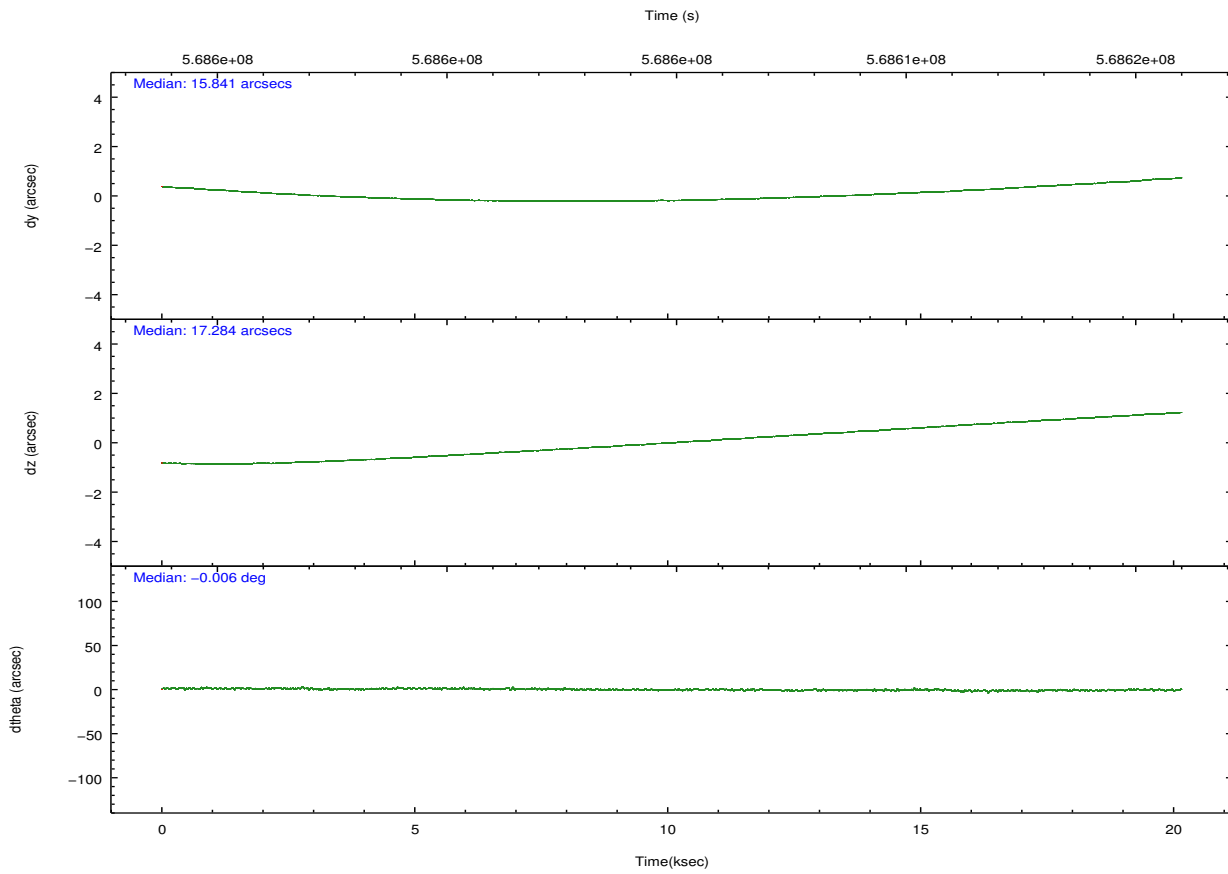
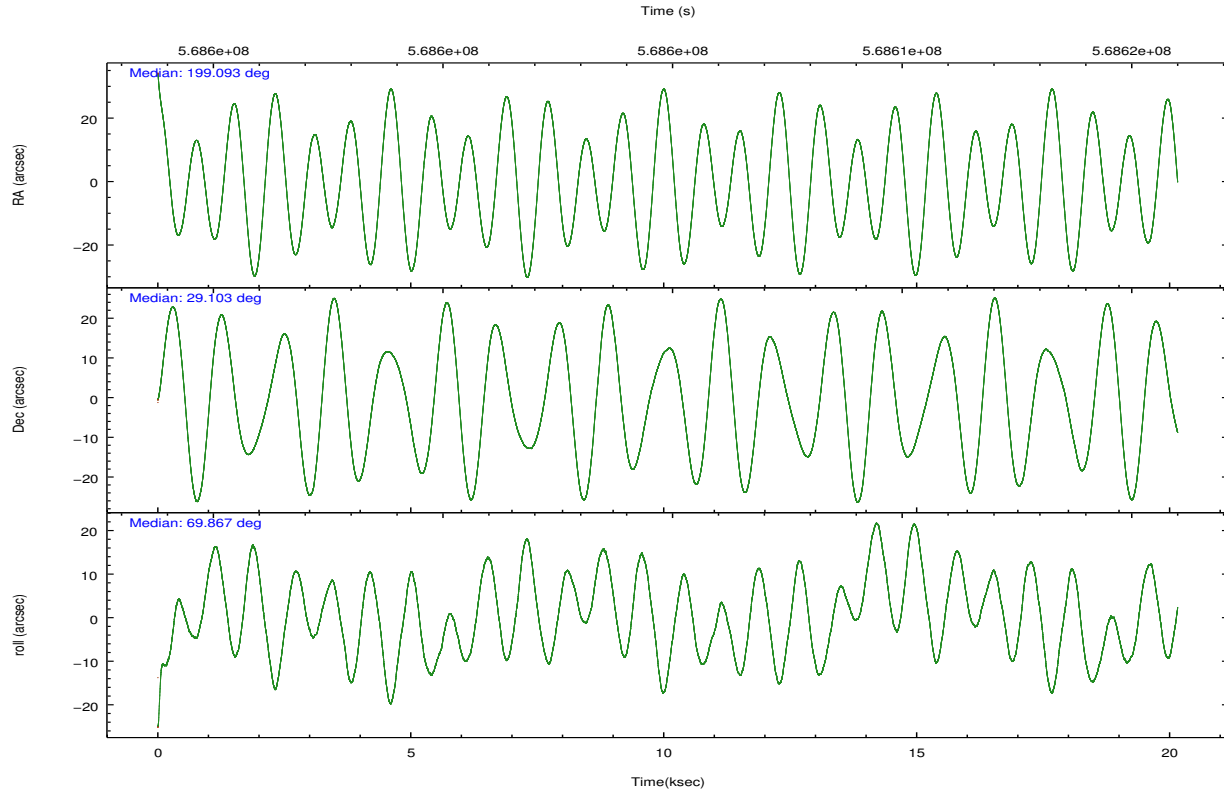
	segment 1	segment 2	segment 3
level 1 events	877088	768674	878762
rejected events	27293	26112	27248
rejected %	3%	3%	3%

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	199.099603	199.0924553656254			
[deg] Pointing Dec	29.074749	29.10299776978061			
[deg] Pointing Roll	69.797246	69.86804052195434			
[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)	568594975.184000	568593941.04893			
Observation start date	2016-01-07T23:01:47	2016-01-07T22:45:41			
[s] Observation end time (MET)	568614975.184000	568615657.72516			
Observation end date	2016-01-08T04:35:07	2016-01-08T04:47:37			

2.3 Aspect



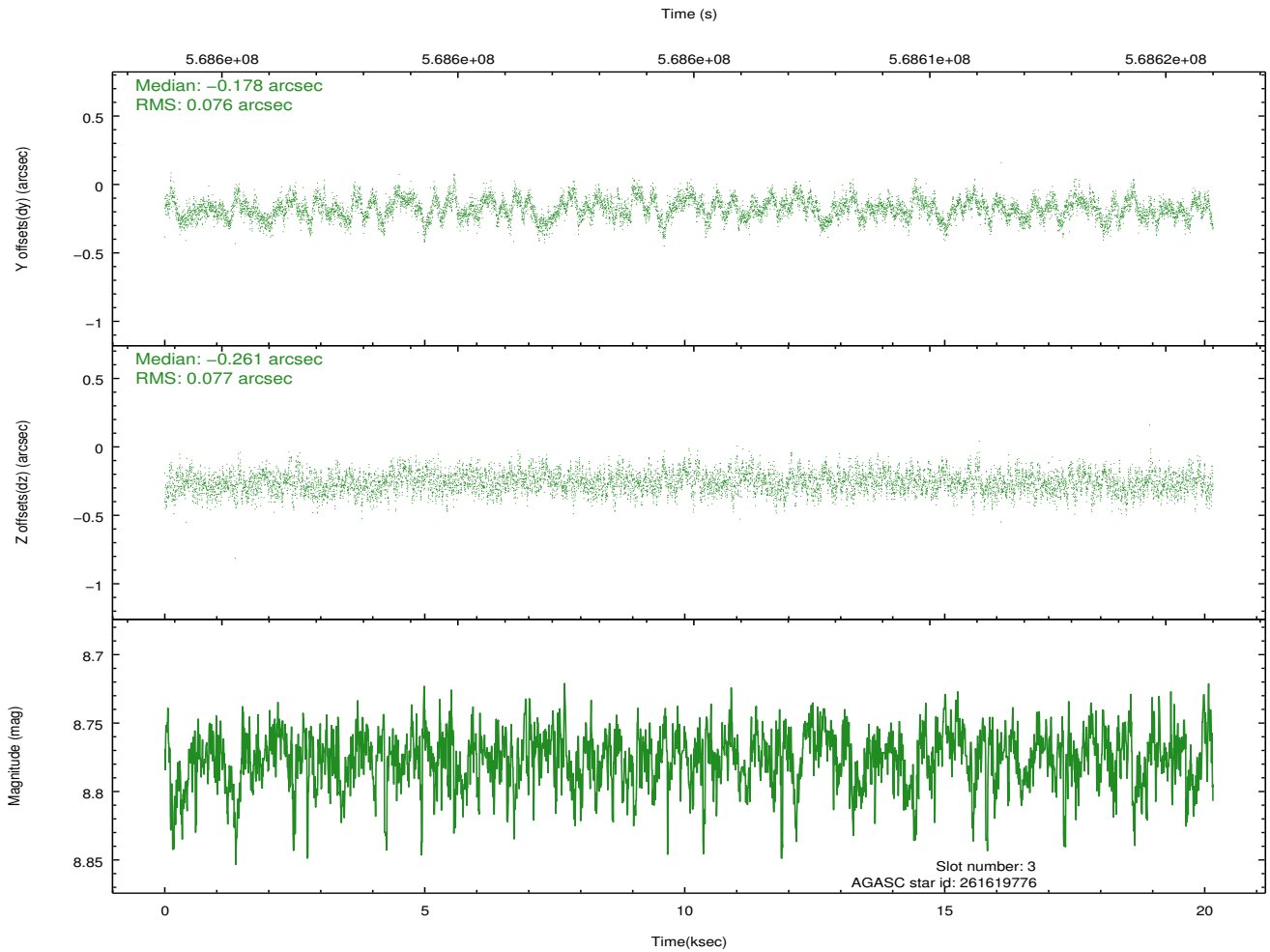
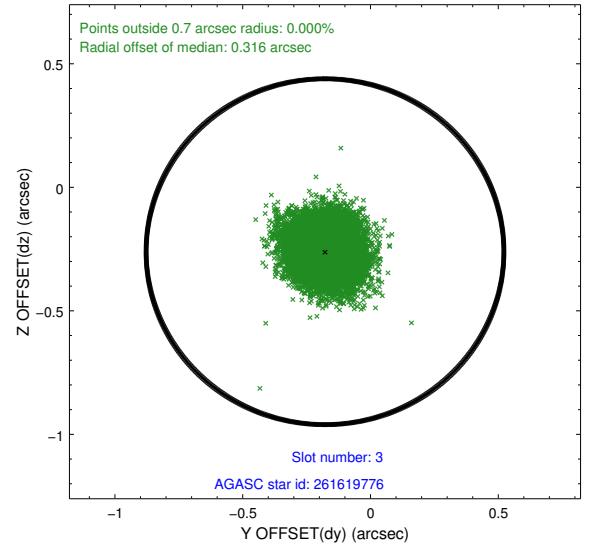
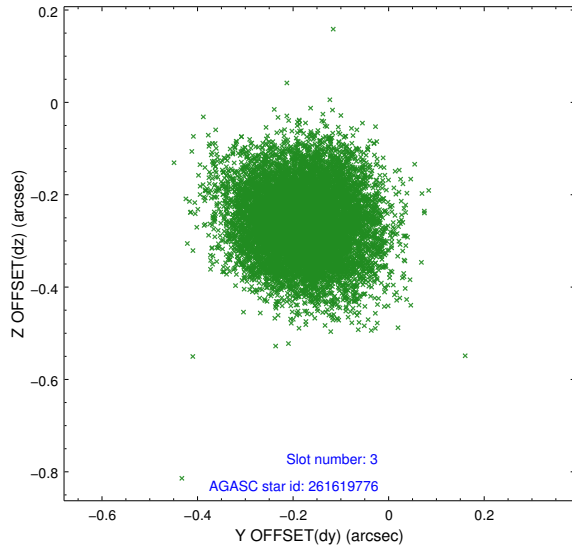


Slot Statistics

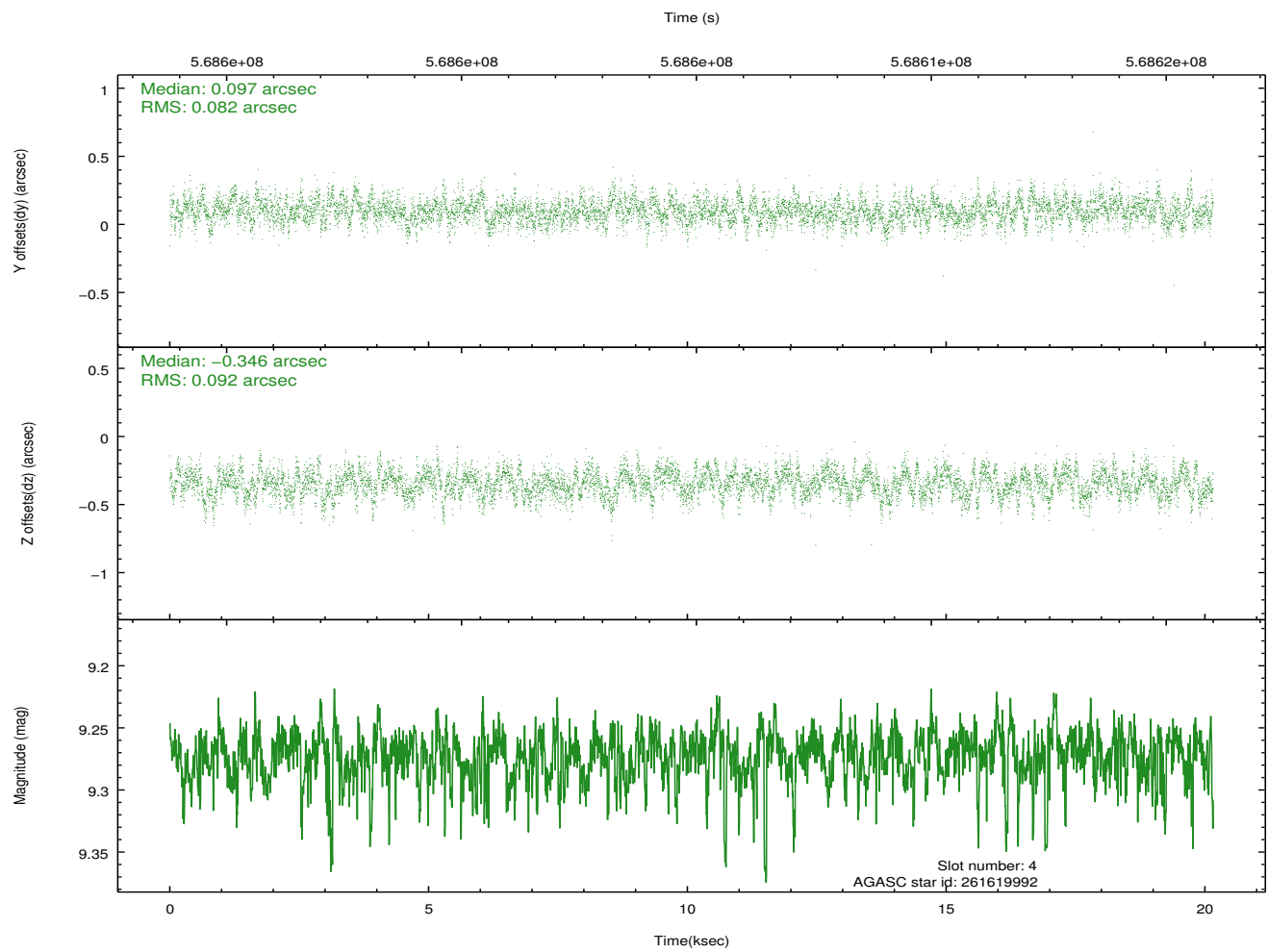
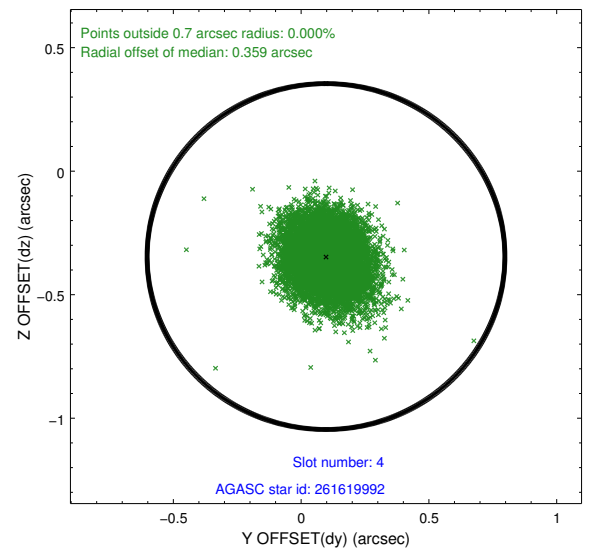
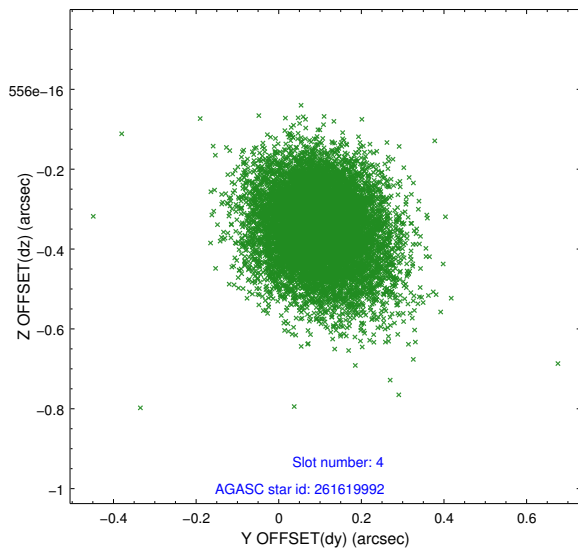
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.05	4917	-0.038	-0.182	0.010	0.018	0.000000	0.000000	-1170.43	-466.27
1	FID		HRC-S-2	7.03	4917	0.364	-0.129	0.008	0.019	0.000000	0.000000	1229.42	-458.86
2	FID		HRC-S-3	7.04	4915	0.062	0.009	0.014	0.025	0.000000	0.000000	-1172.84	563.36
3	GUIDE	used	261619776	8.77	9823	-0.178	-0.261	0.116	0.184	198.654383	29.401174	622.22	1716.29
4	GUIDE	used	261619992	9.27	9821	0.097	-0.346	0.130	0.212	198.395553	28.647634	-2205.24	1558.99
5	GUIDE	used	261621400	6.97	9834	0.208	-0.223	0.101	0.164	198.901600	28.741982	-1340.08	173.84
6	GUIDE	used	261623040	9.10	9821	-0.520	-0.442	0.128	0.208	198.792686	29.757643	1976.09	1749.68
7	GUIDE	used	261623624	9.08	9825	0.396	1.273	0.143	0.229	199.611555	28.454113	-1533.76	-2289.36

2.4 Star Slots

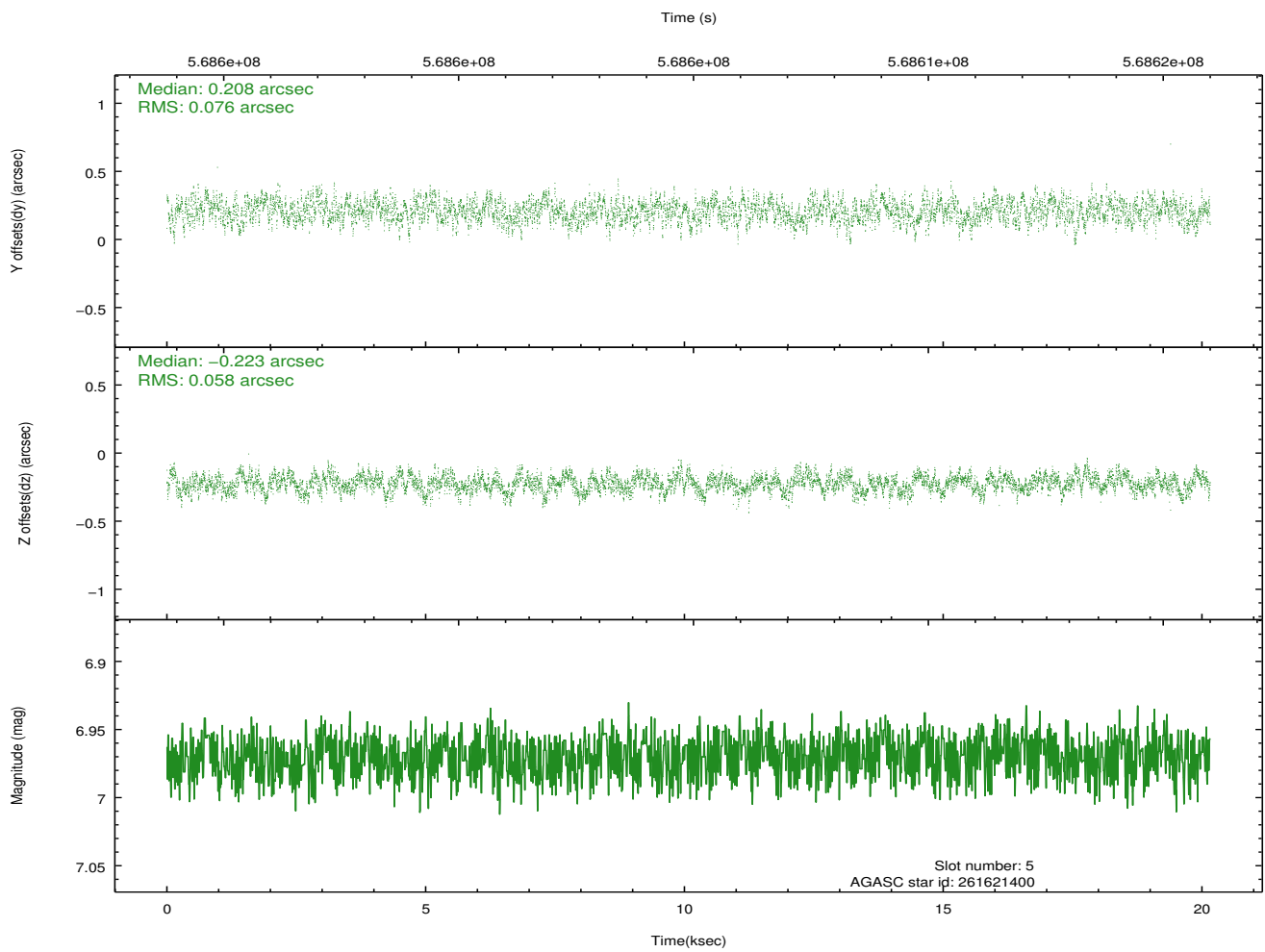
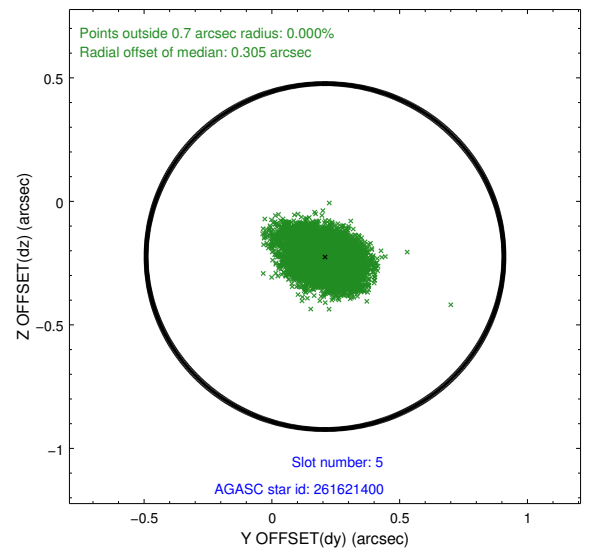
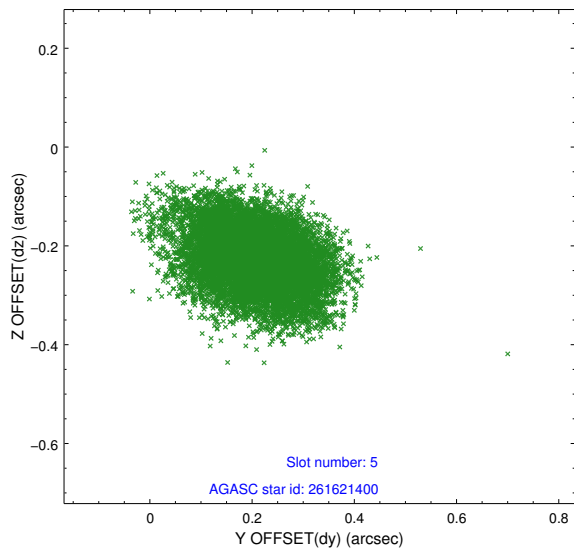
2.4.1 Slot 3



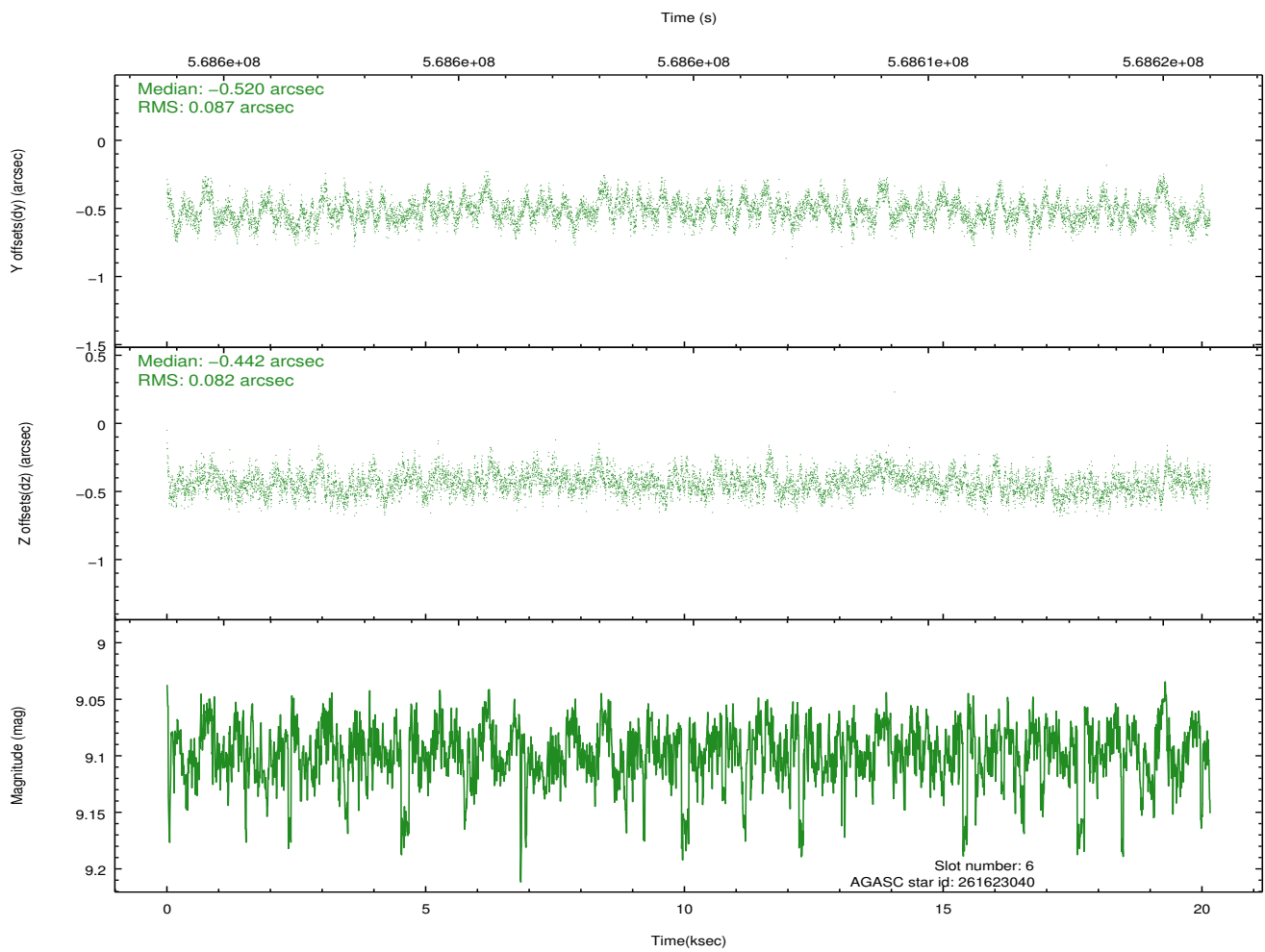
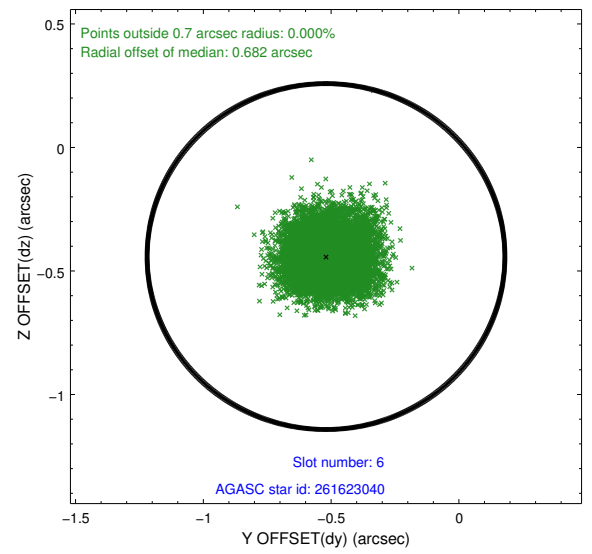
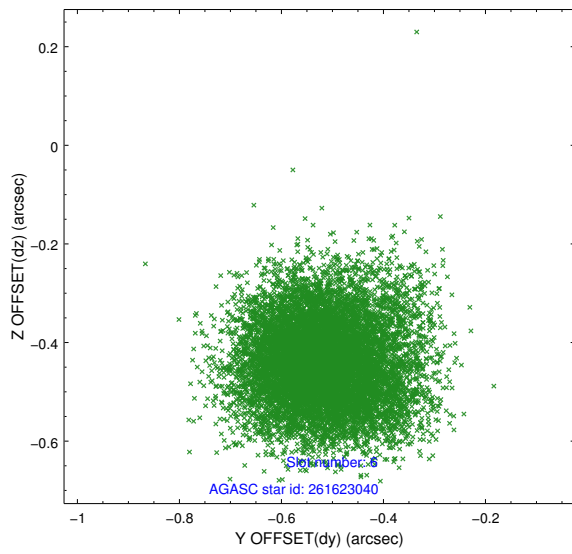
2.4.2 Slot 4



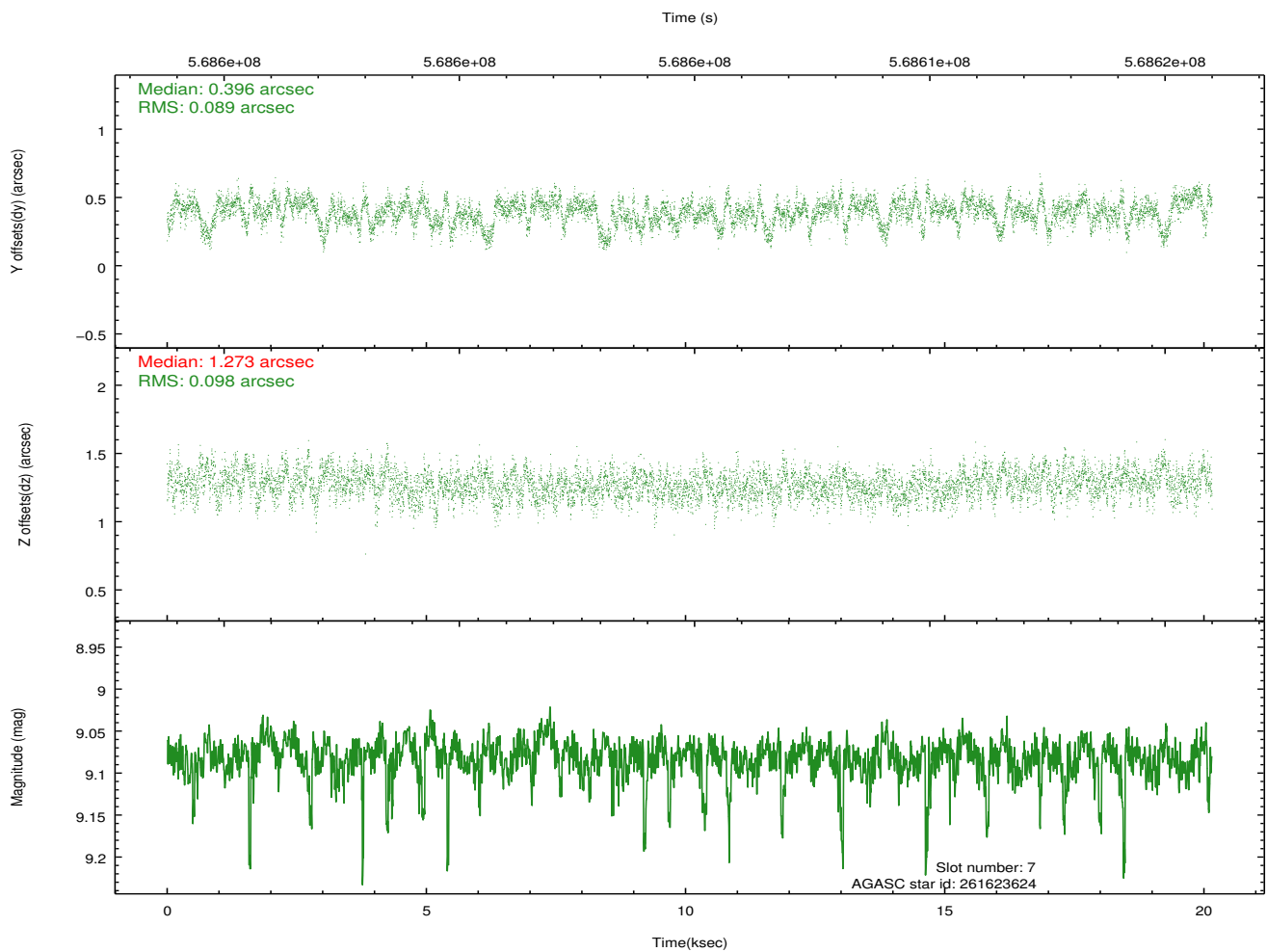
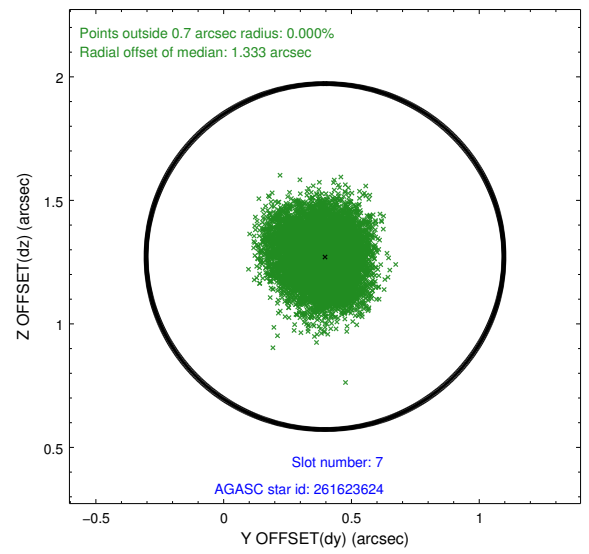
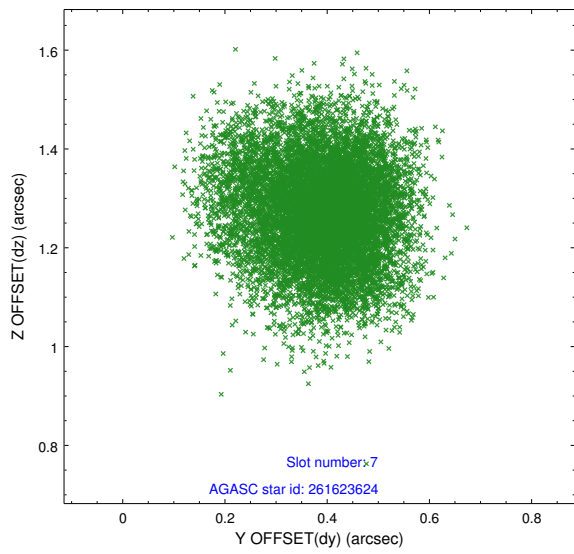
2.4.3 Slot 5



2.4.4 Slot 6

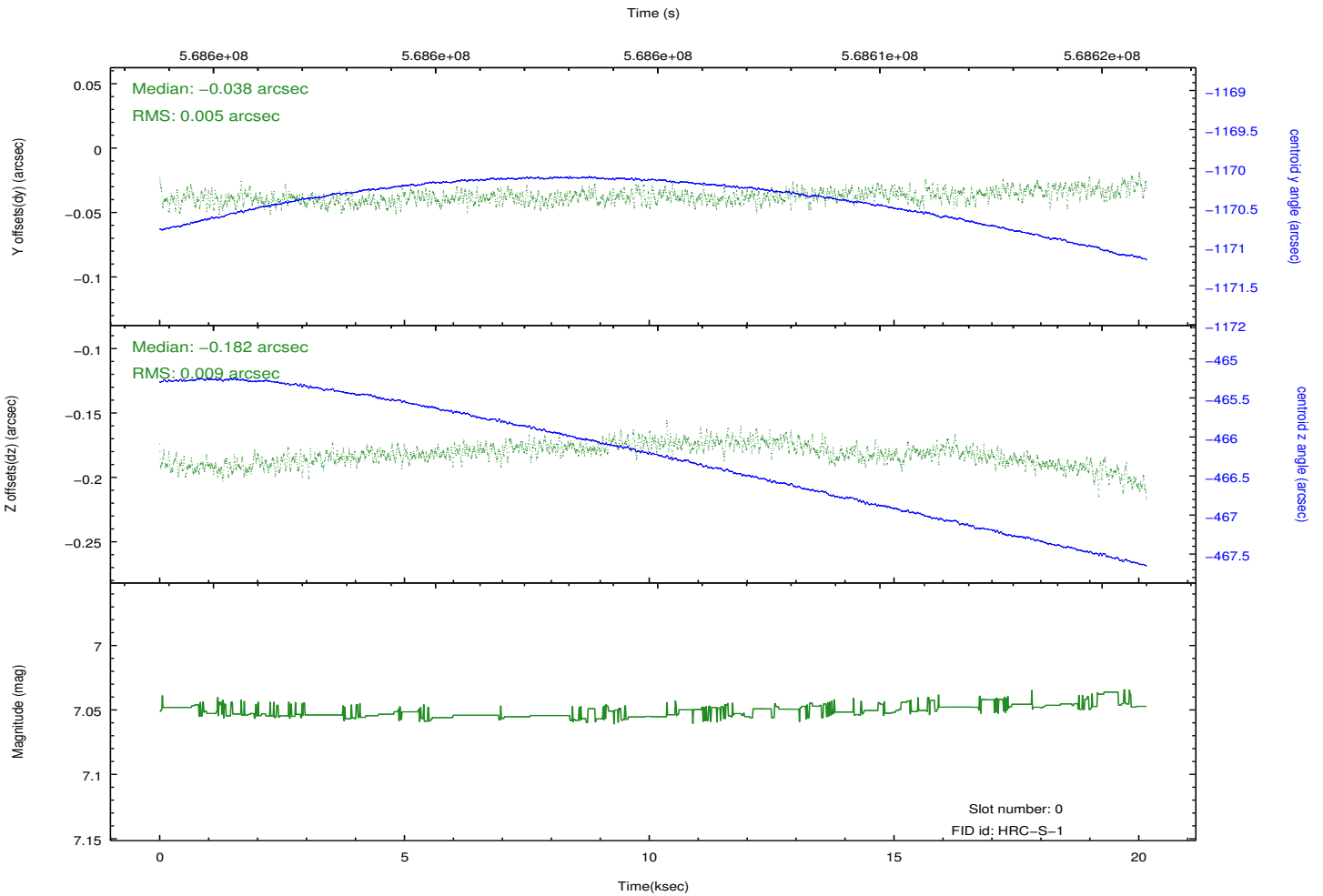
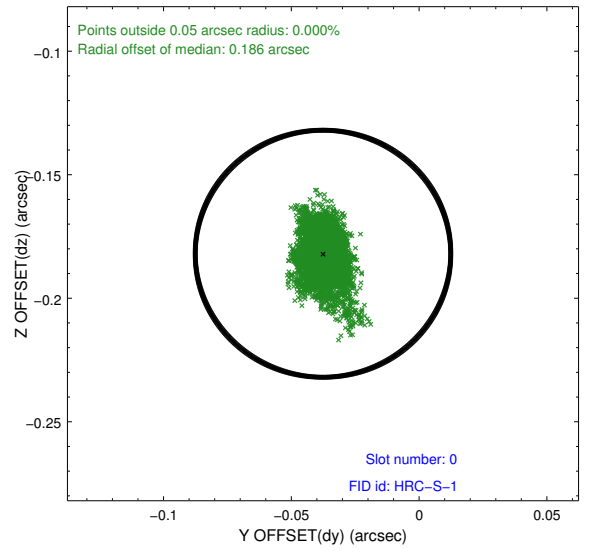
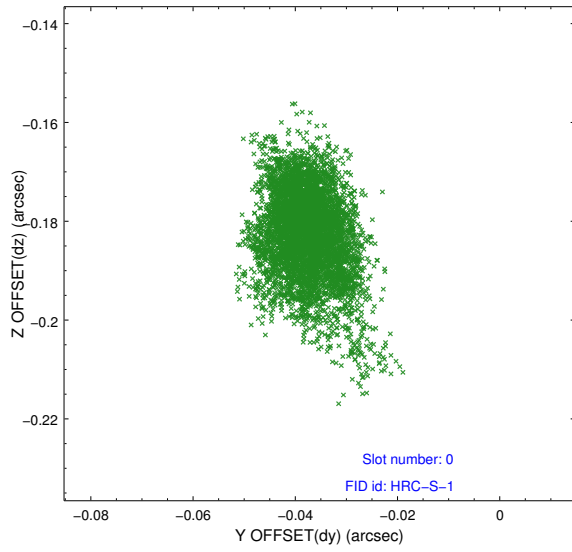


2.4.5 Slot 7

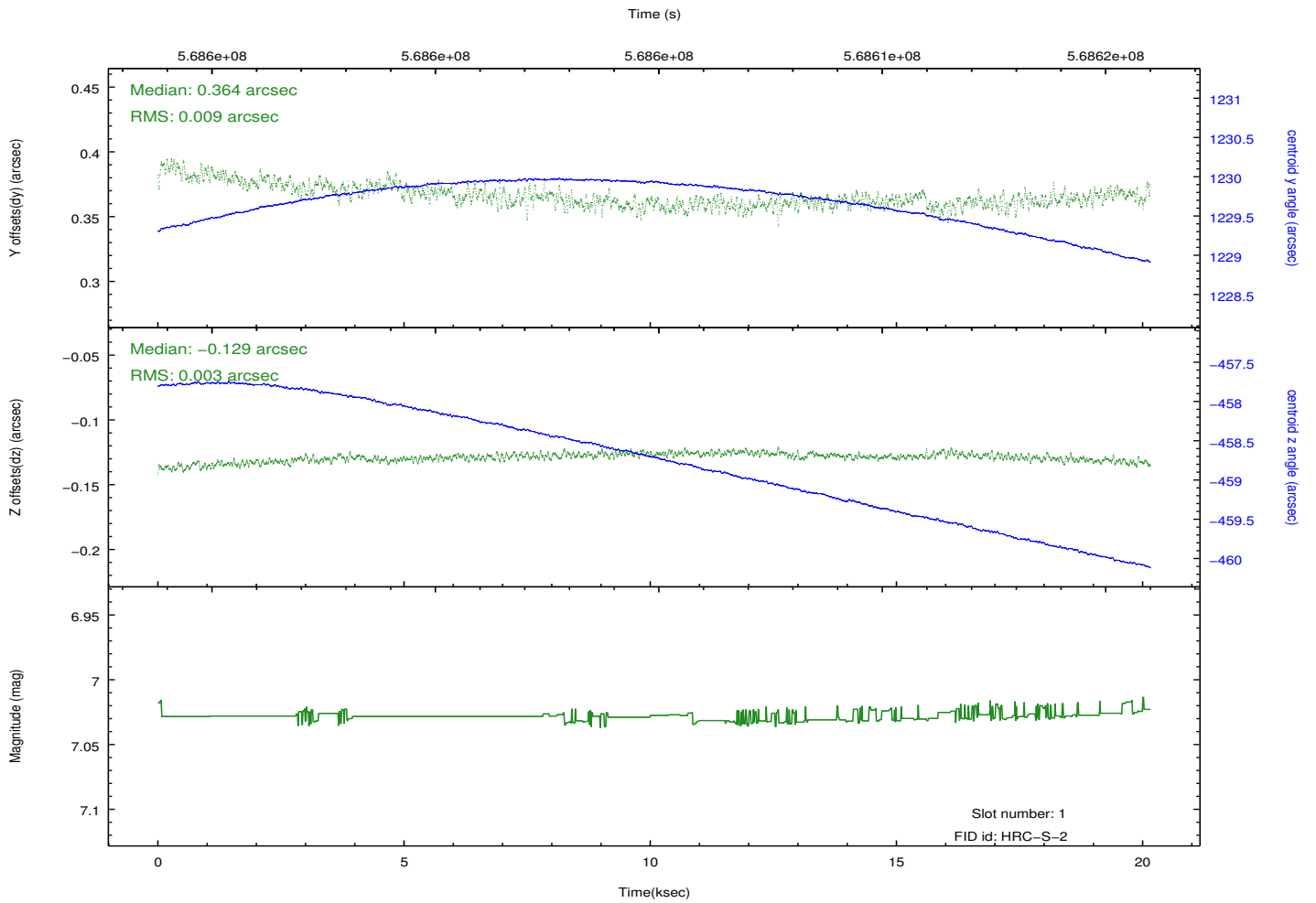
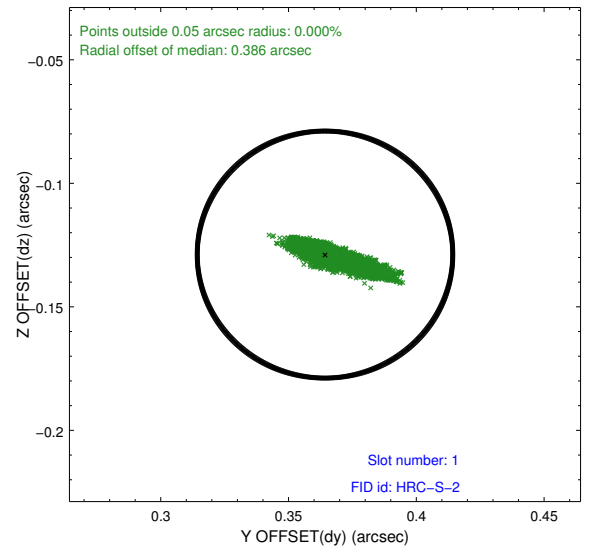
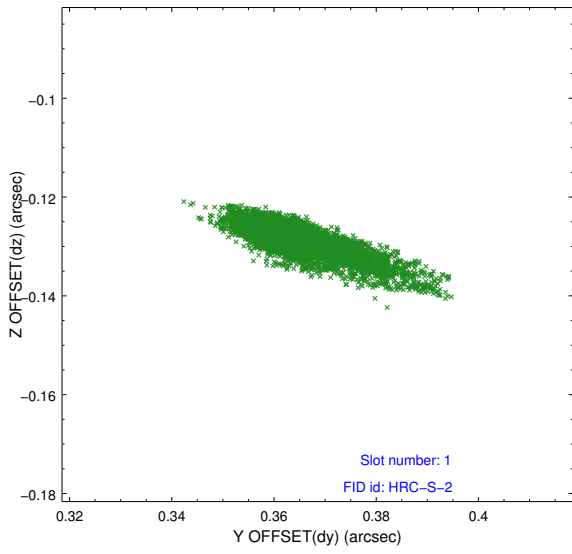


2.5 FID Slots

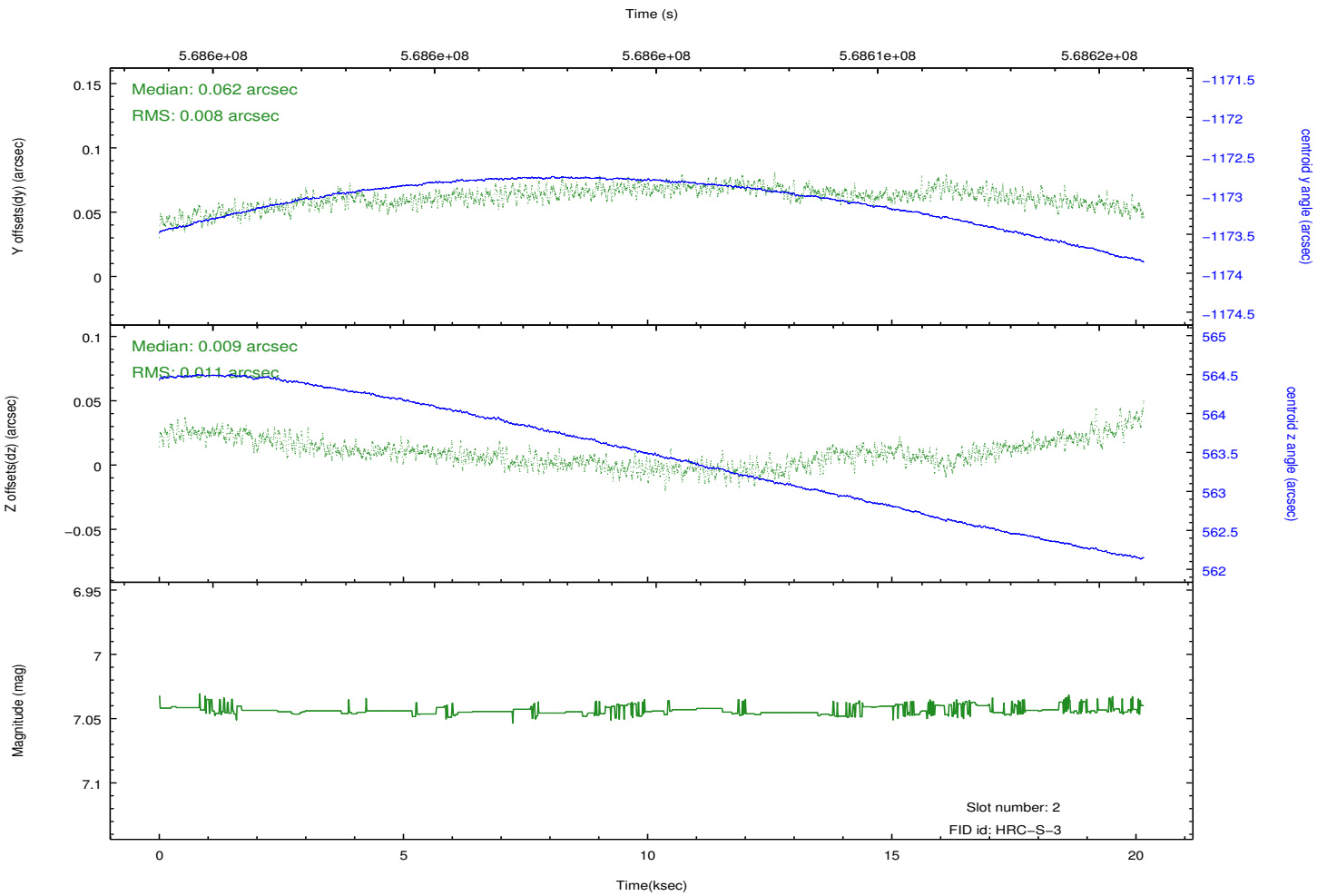
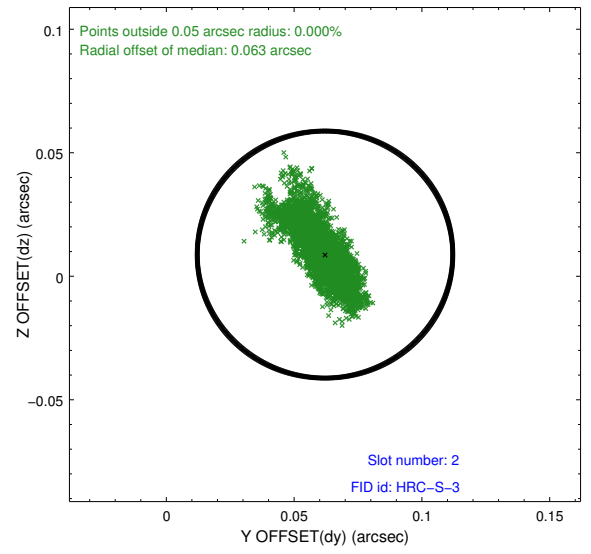
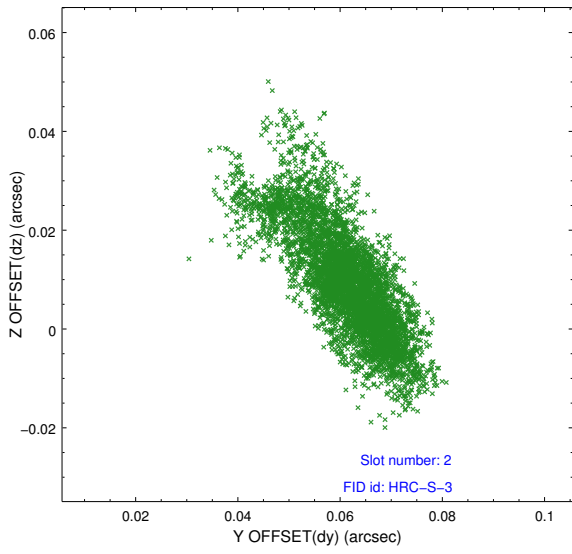
2.5.1 Slot 0



2.5.2 Slot 1

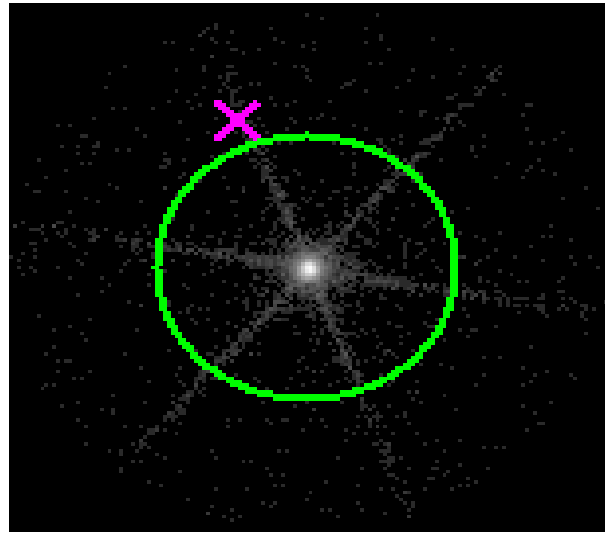


2.5.3 Slot 2

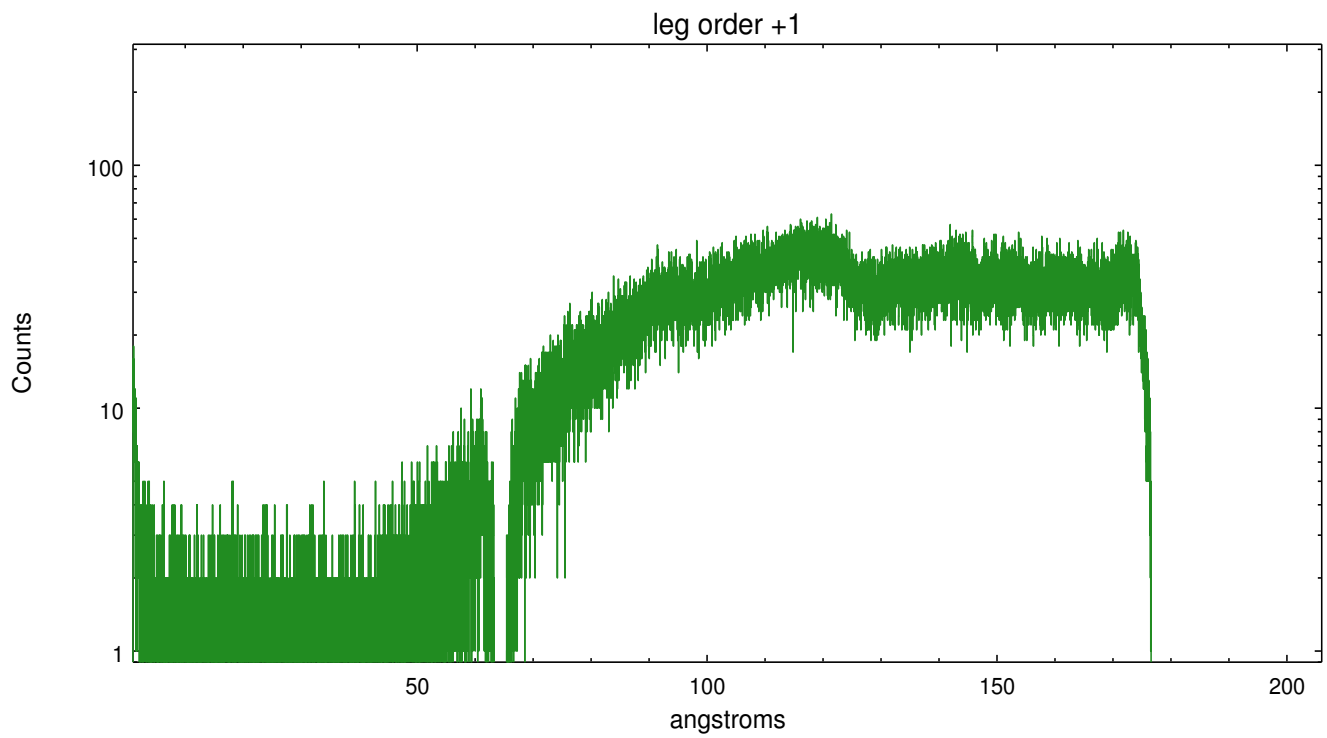
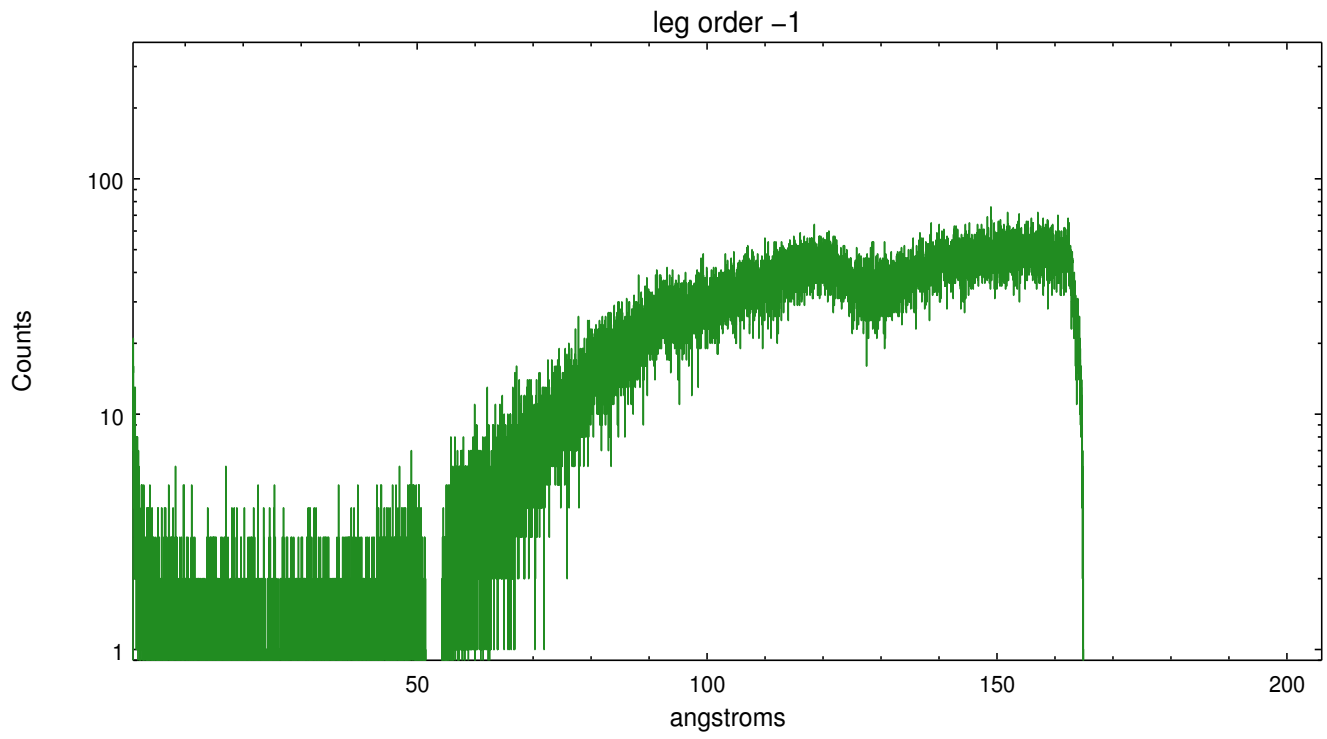


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2016.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.155601143718

A.2 Comments