

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18415 - L2 Version 1
Chandra X-Ray Center

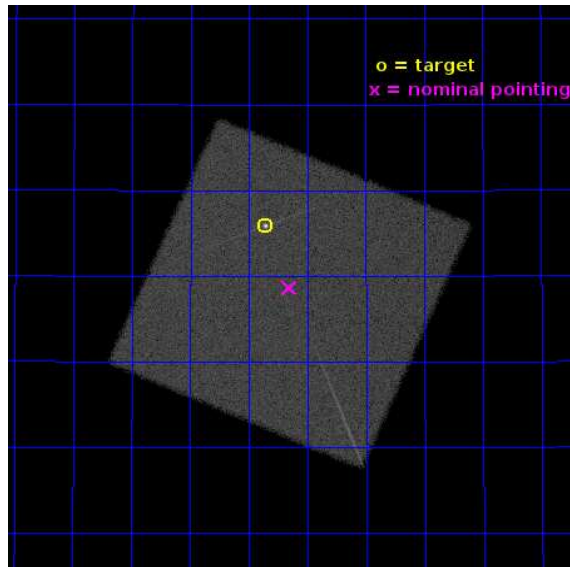
L2 Processing Date : Jan 8 2016

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1 Front

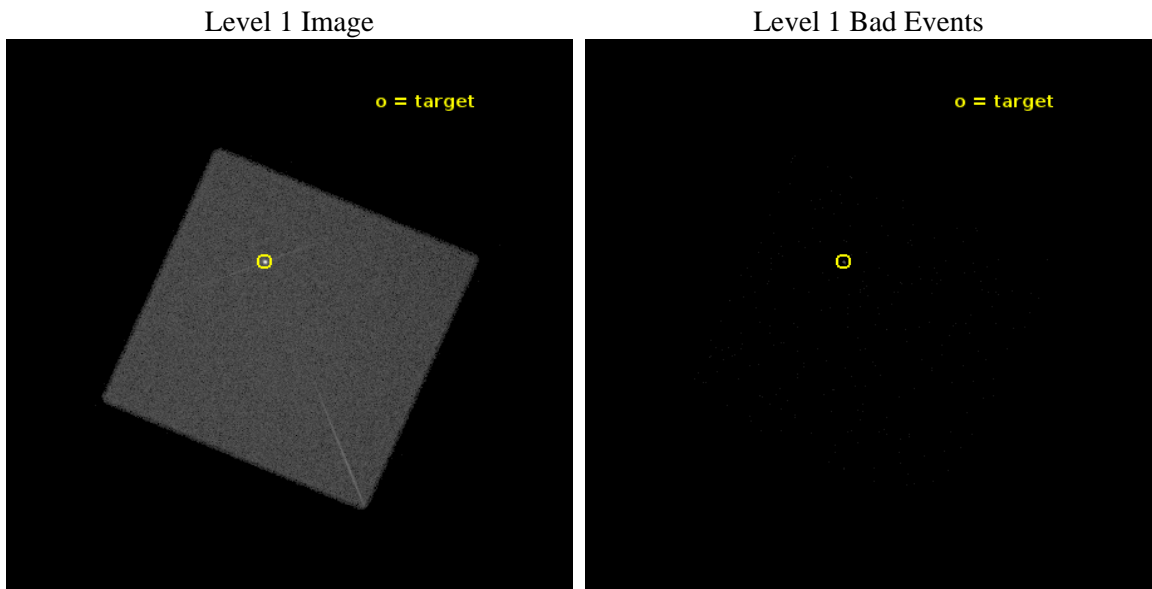
seq_num	291310	Sequence number
obs_id	18415	Observation id
title	AO-17 Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.03837953202	Nominal RA [deg]
dec_nom	28.97739647462	Nominal Dec [deg]
roll_nom	68.503645263968	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4180.7189872265	[s]
livetime	4139.8408928036	Ontime multiplied by DTCOR
l2events	337989	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	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	4180.7189872265	[s]
caldsver	4.7.0	 	l1events	473388	Number of level 1 events
date	2016-01-06T11:47:09	Date and time of file creation	tgmethod	CUSTOM	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(15156.00, 19684.00)	src1a sky pixel position

2.1.3 Events

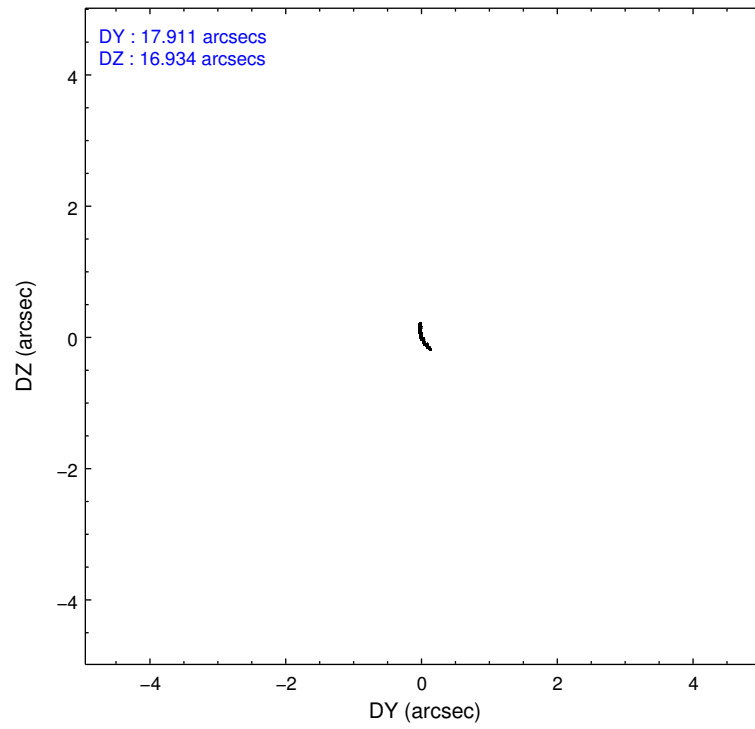
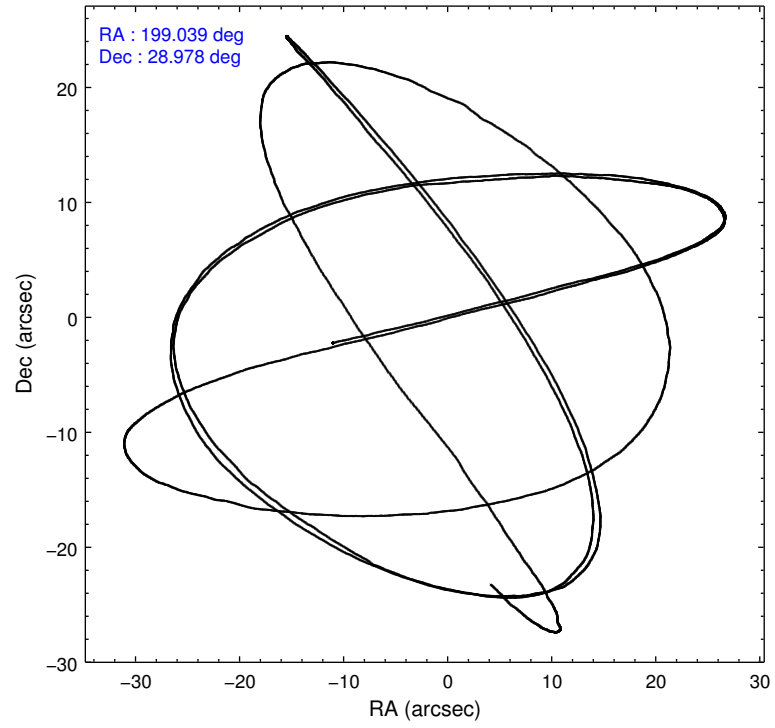
Level 1 Events

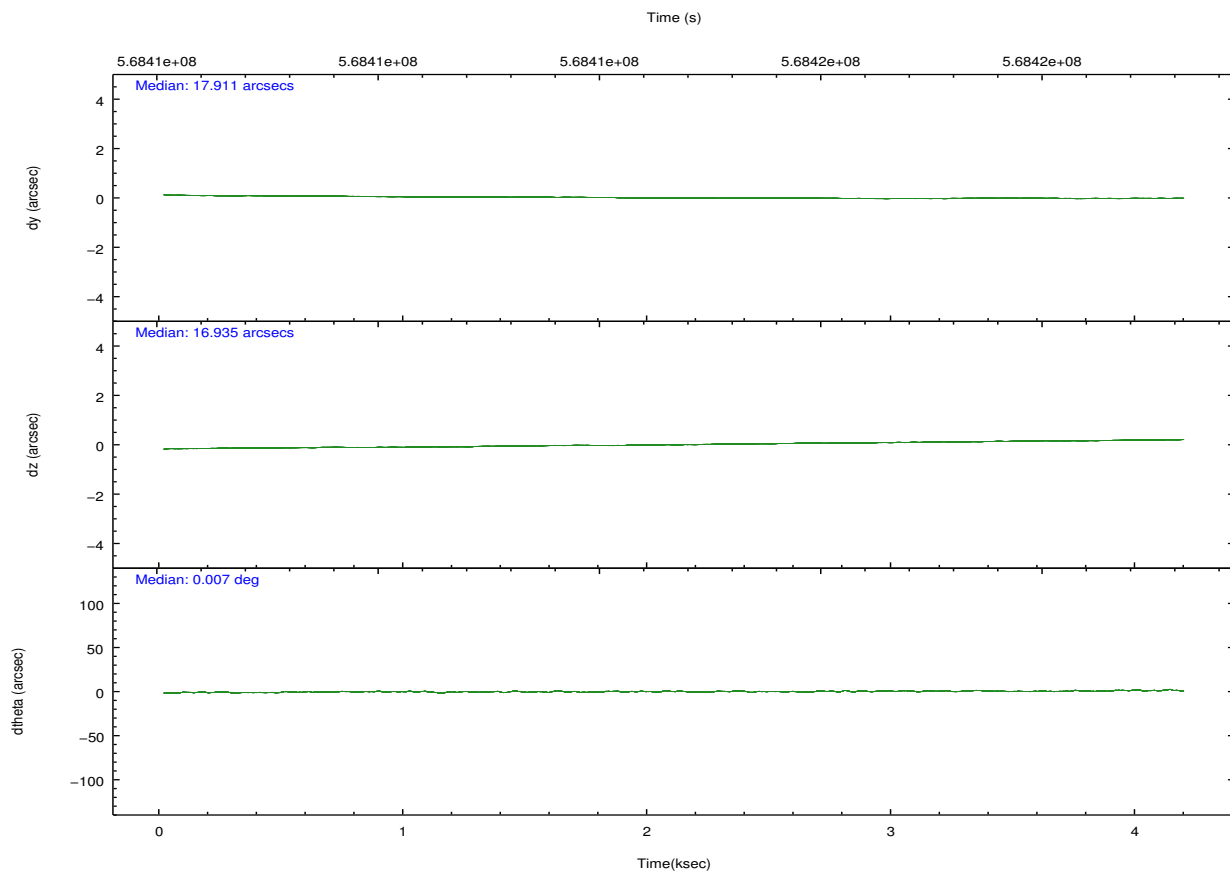
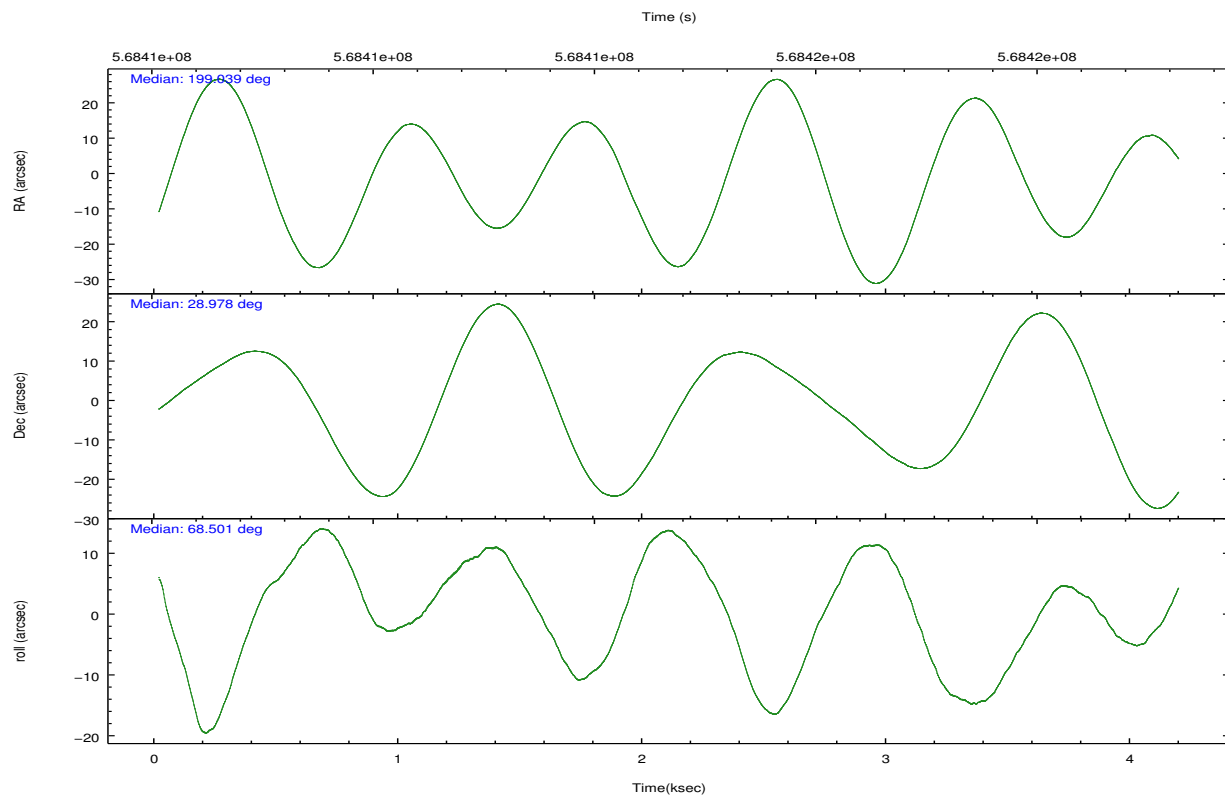
	segment 0
level 1 events	473388
rejected events	25631
rejected %	5%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	199.043356	199.0383795320237			
[deg] Pointing Dec	28.950460	28.97739647461984			
[deg] Pointing Roll	68.596761	68.50364526396838			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	568412426.184000	568412049.66361			
Observation start date	2016-01-05T20:19:18	2016-01-05T20:14:09			
[s] Observation end time (MET)	568416426.184000	568417323.80141			
Observation end date	2016-01-05T21:25:58	2016-01-05T21:42:03			

2.3 Aspect



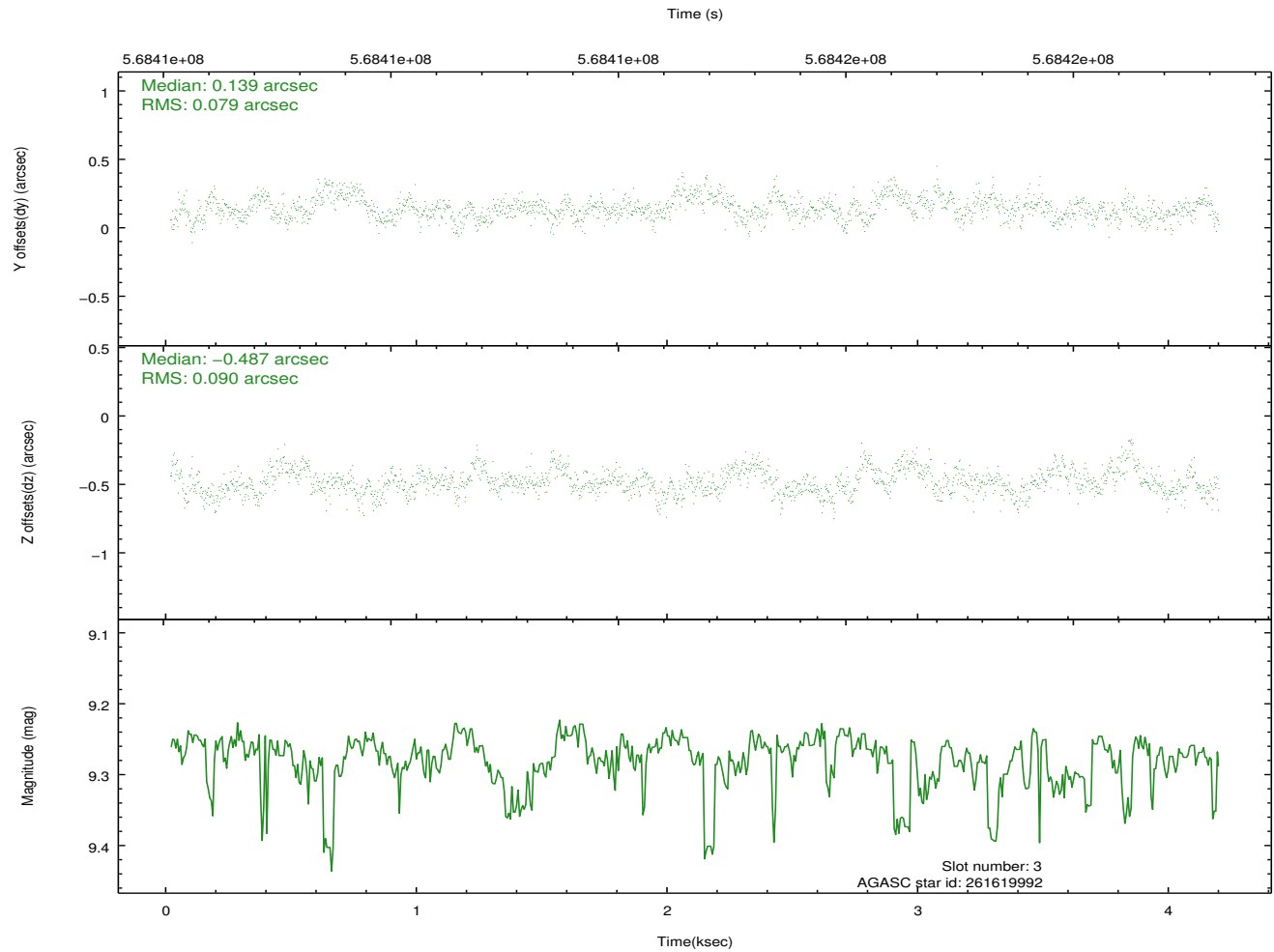
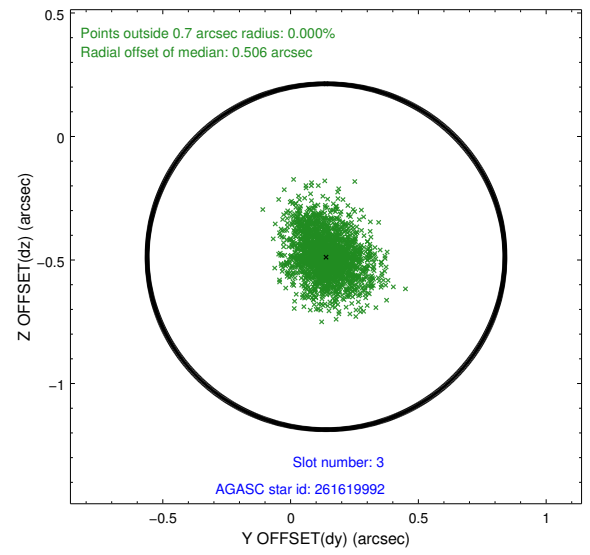
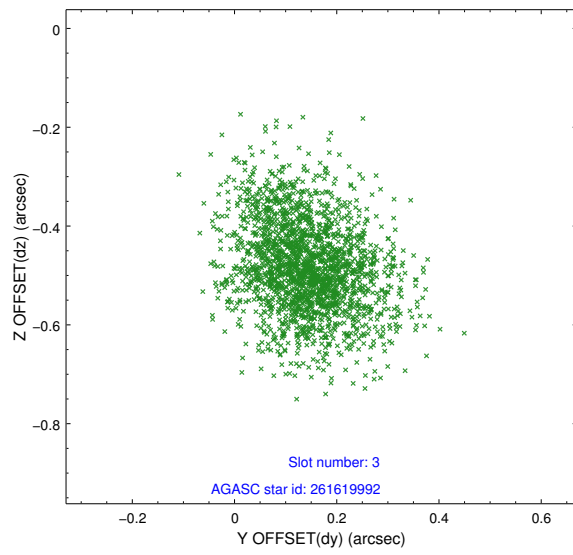


Slot Statistics

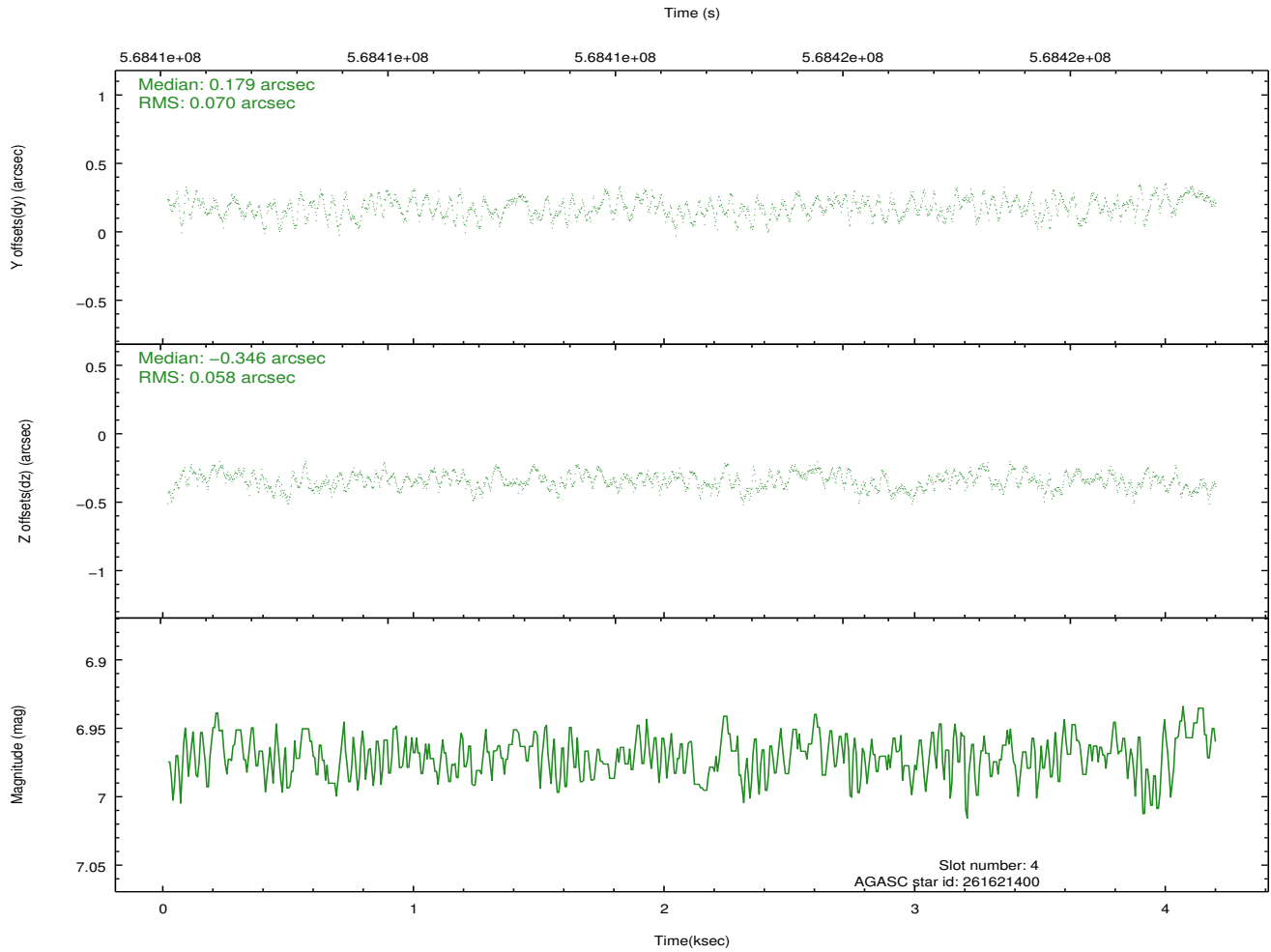
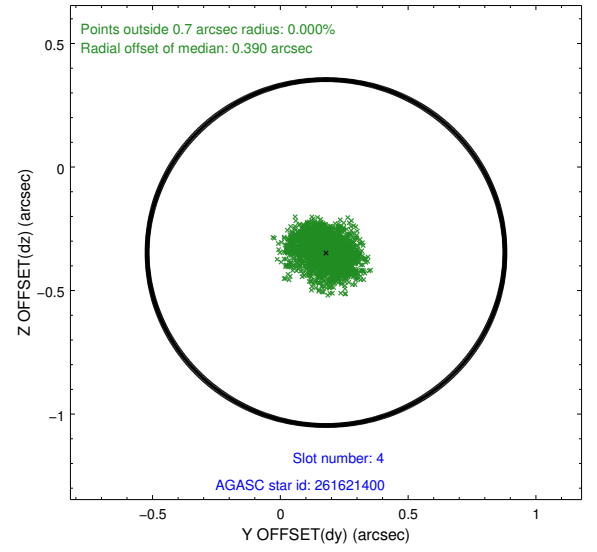
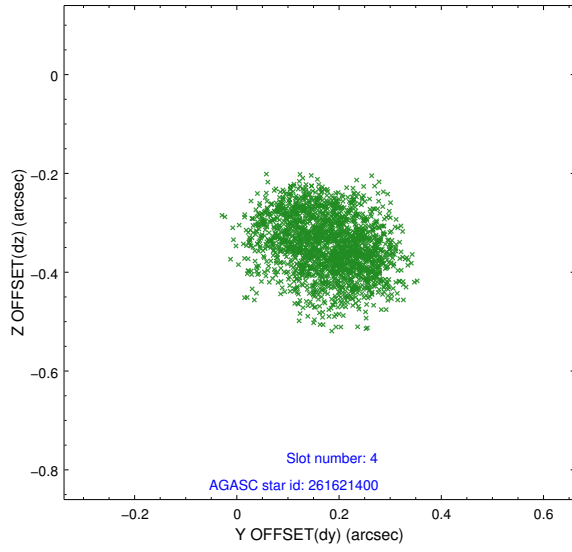
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.01	1020	-0.160	0.025	0.008	0.013	0.000000	0.000000	-773.94	-1305.07
1	FID		HRC-I-2	7.03	1020	0.345	-0.162	0.007	0.013	0.000000	0.000000	838.44	-1308.08
2	FID		HRC-I-3	7.10	1020	-0.066	0.048	0.007	0.011	0.000000	0.000000	-1201.56	998.22
3	GUIDE	used	261619992	9.27	2039	0.139	-0.487	0.127	0.212	198.395553	28.647634	-1756.99	1510.37
4	GUIDE	used	261621400	6.97	2040	0.179	-0.346	0.100	0.149	198.901600	28.741982	-862.96	144.95
5	GUIDE	used	261623624	9.08	2040	0.290	1.153	0.143	0.243	199.611555	28.454113	-1003.75	-2322.52
6	GUIDE	used	261629720	8.10	2040	-0.108	0.258	0.087	0.138	199.236176	29.044452	536.03	-440.96
7	GUIDE	used	261623040	9.09	2039	-0.497	-0.579	0.132	0.209	198.792686	29.757643	2419.69	1790.81

2.4 Star Slots

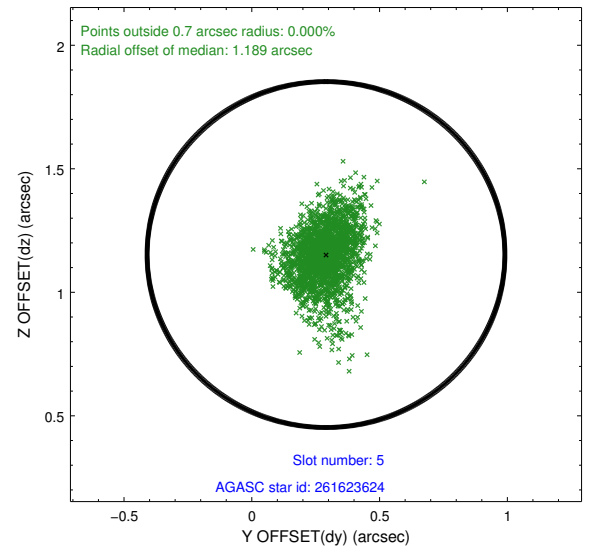
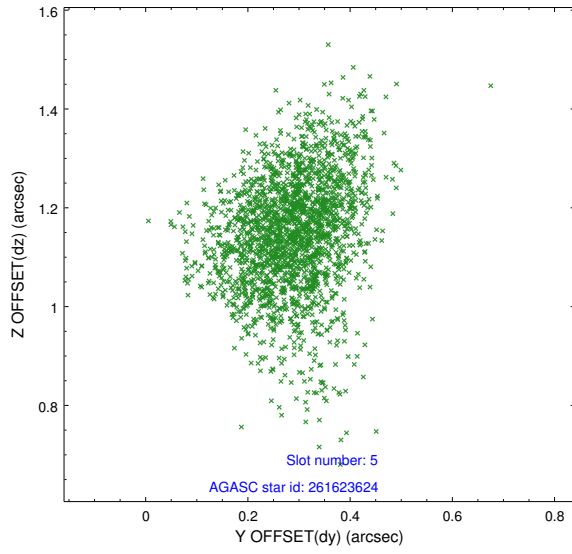
2.4.1 Slot 3



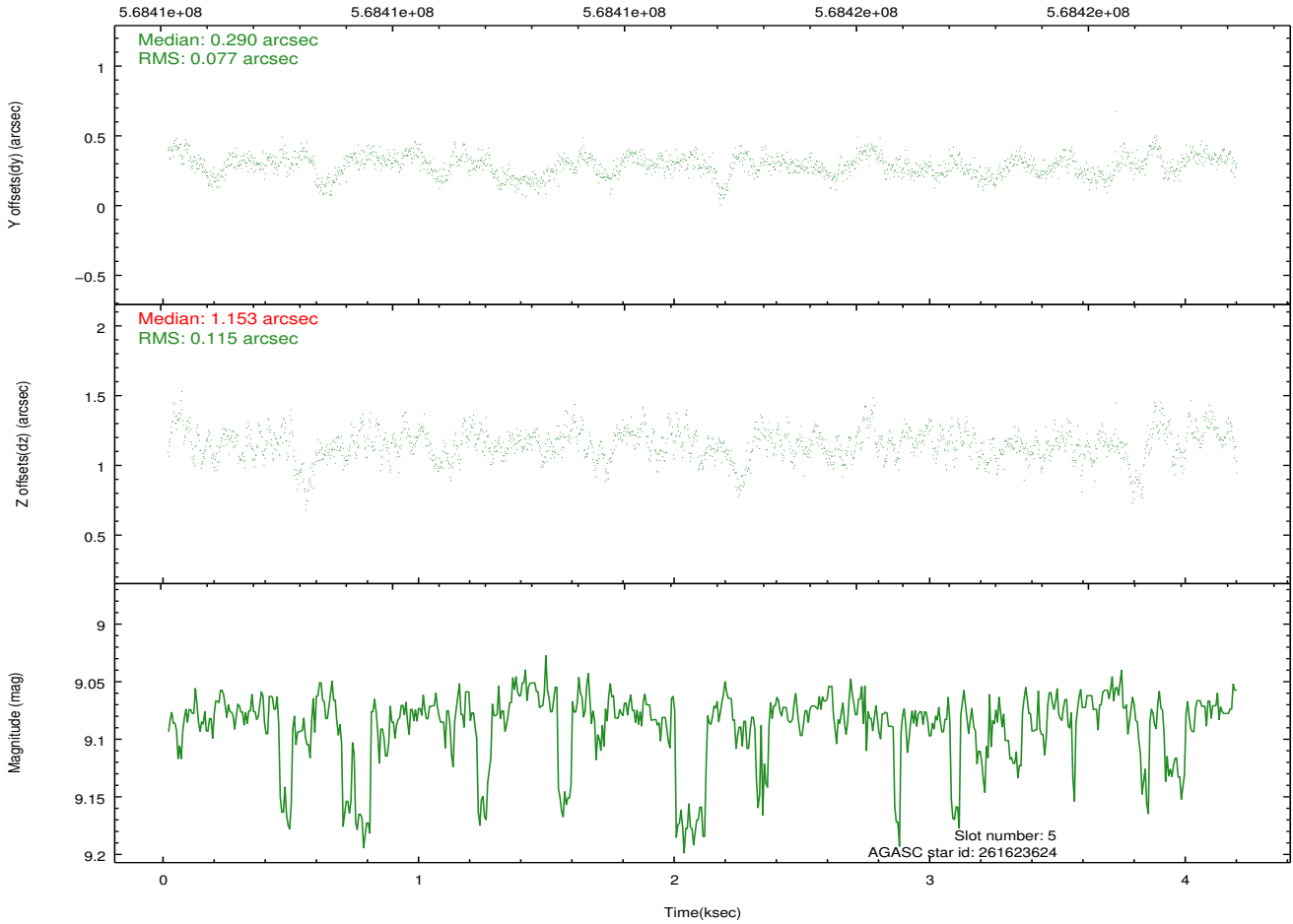
2.4.2 Slot 4



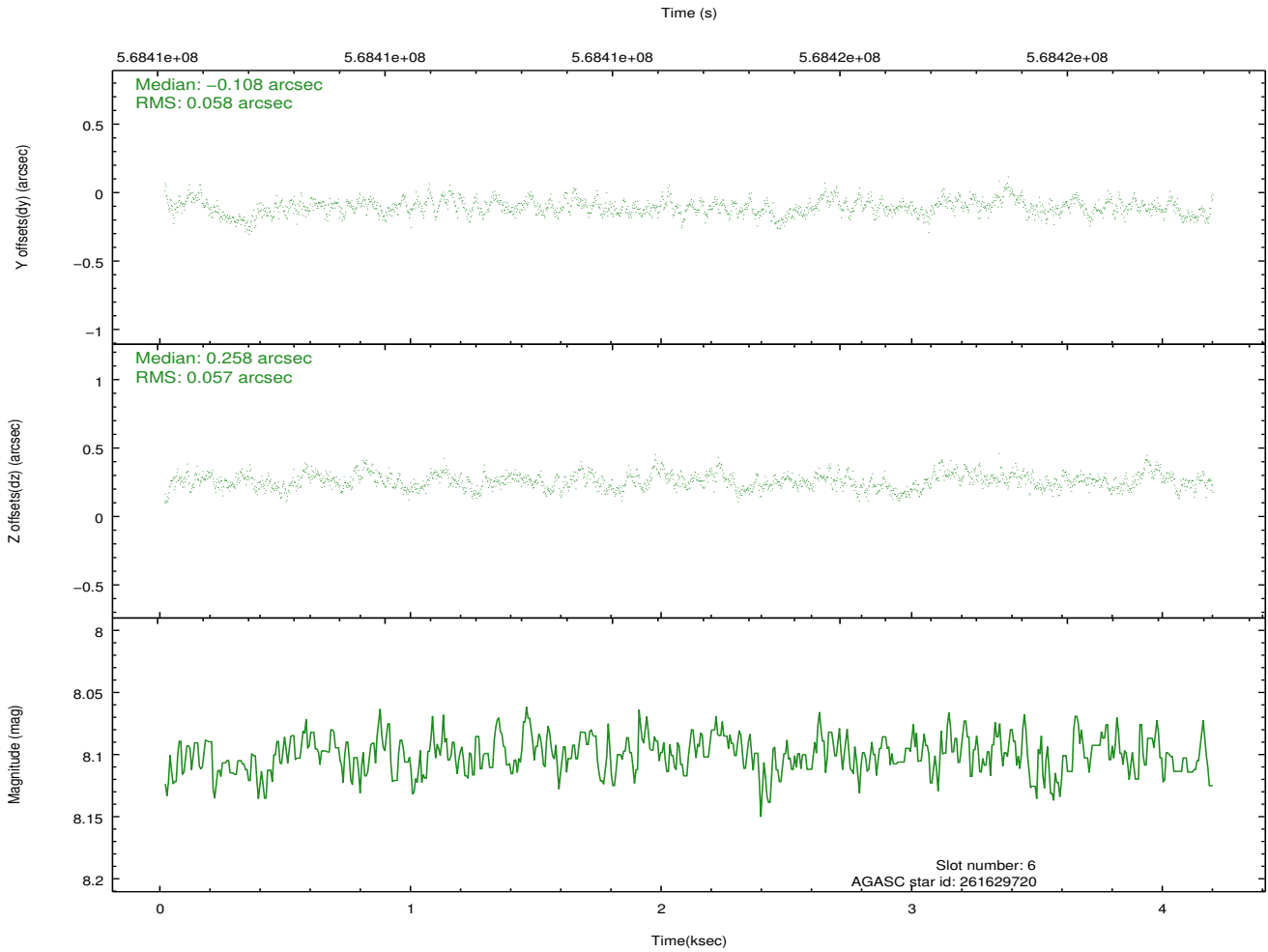
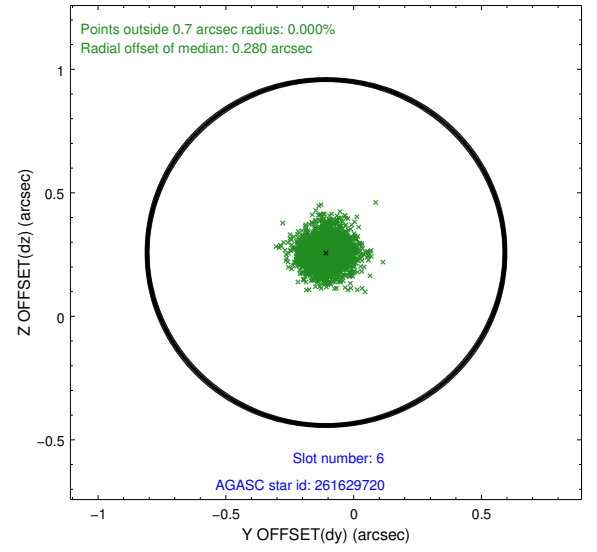
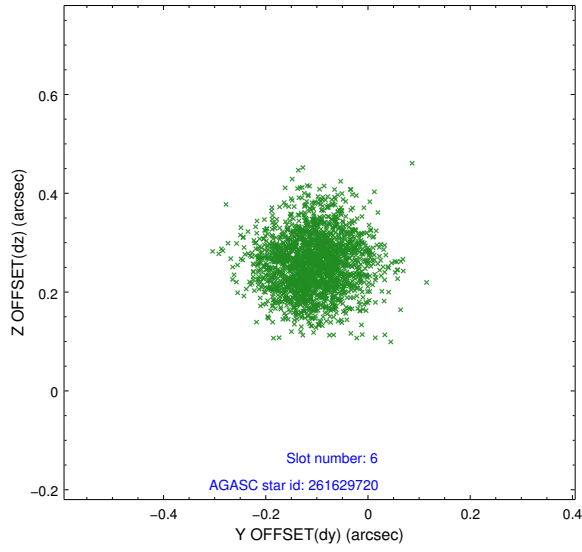
2.4.3 Slot 5



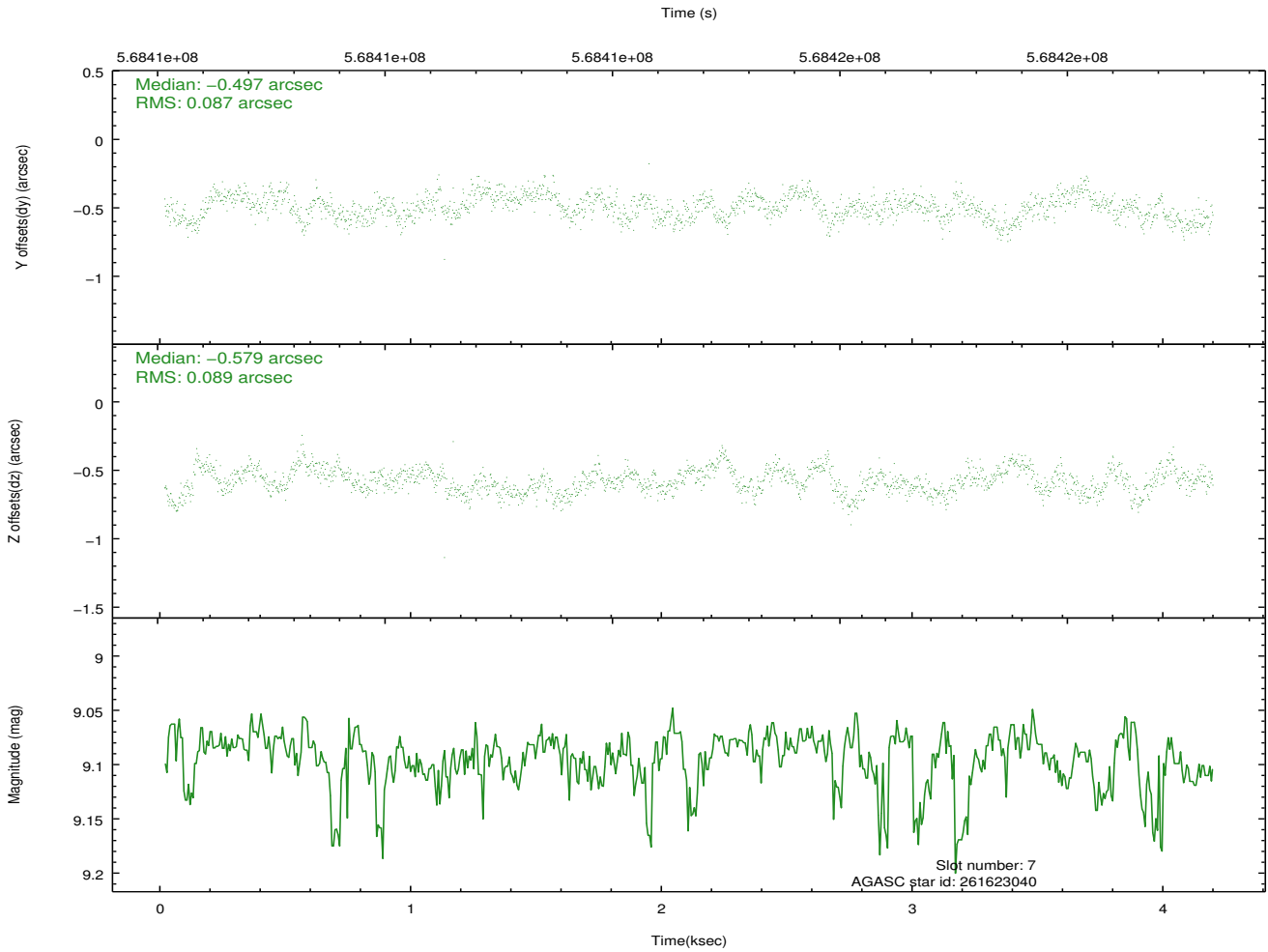
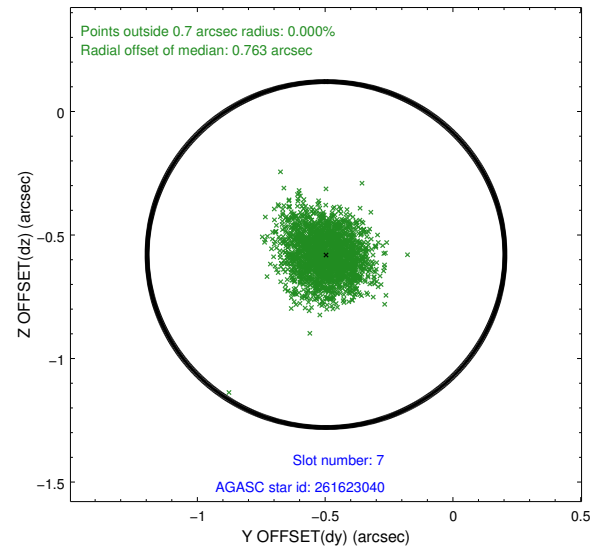
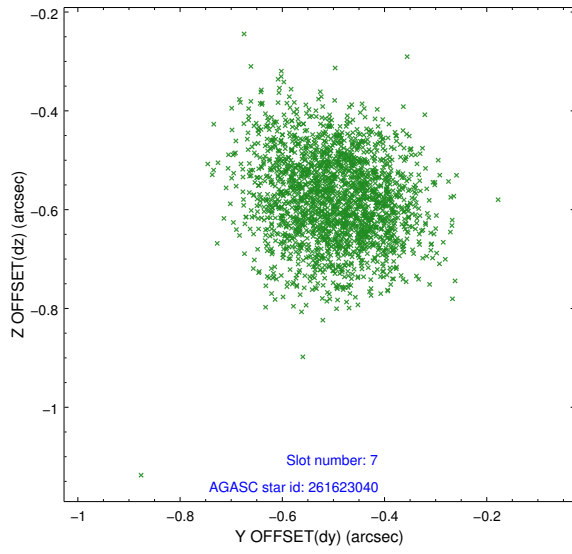
Time (s)



2.4.4 Slot 6

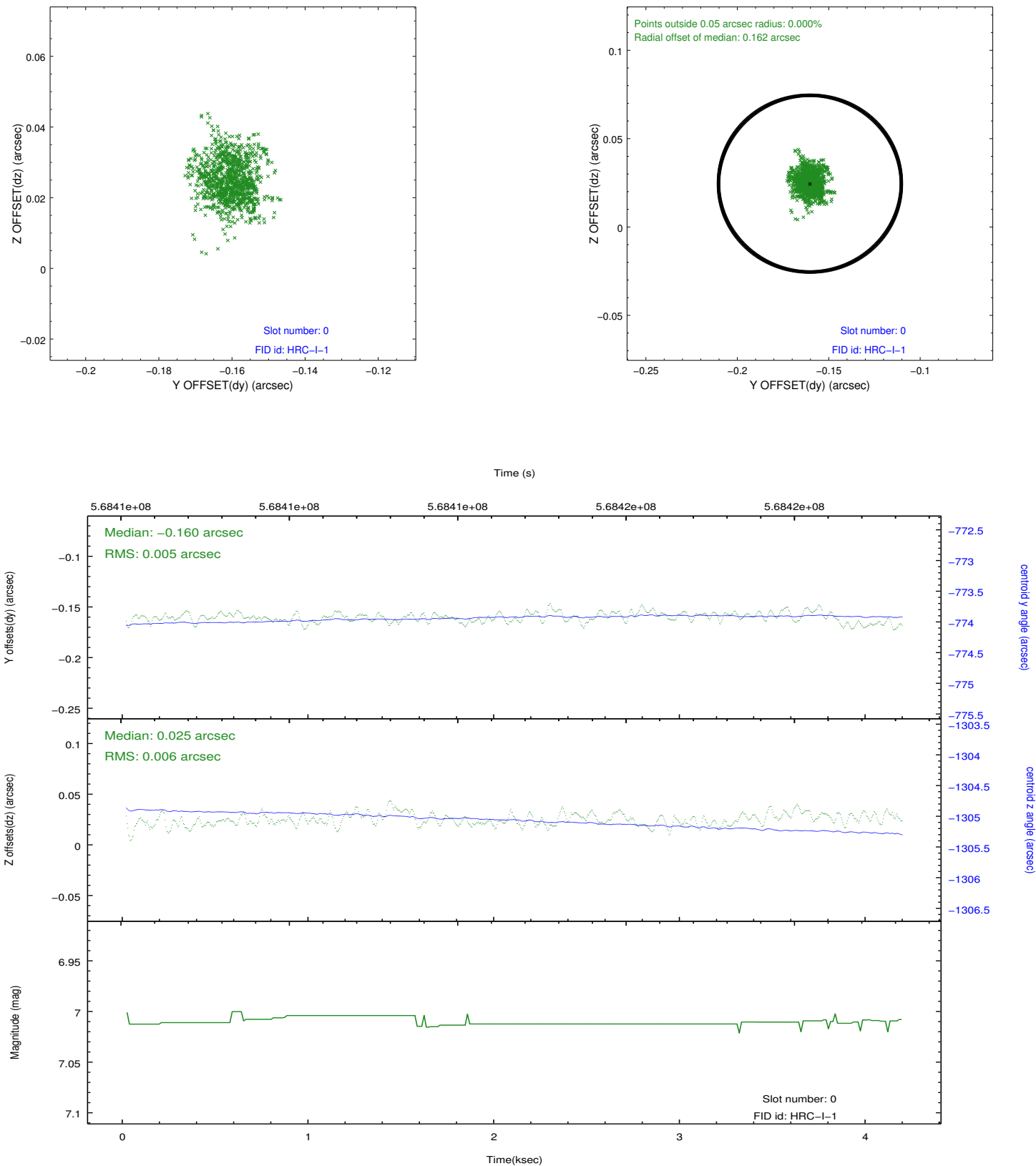


2.4.5 Slot 7

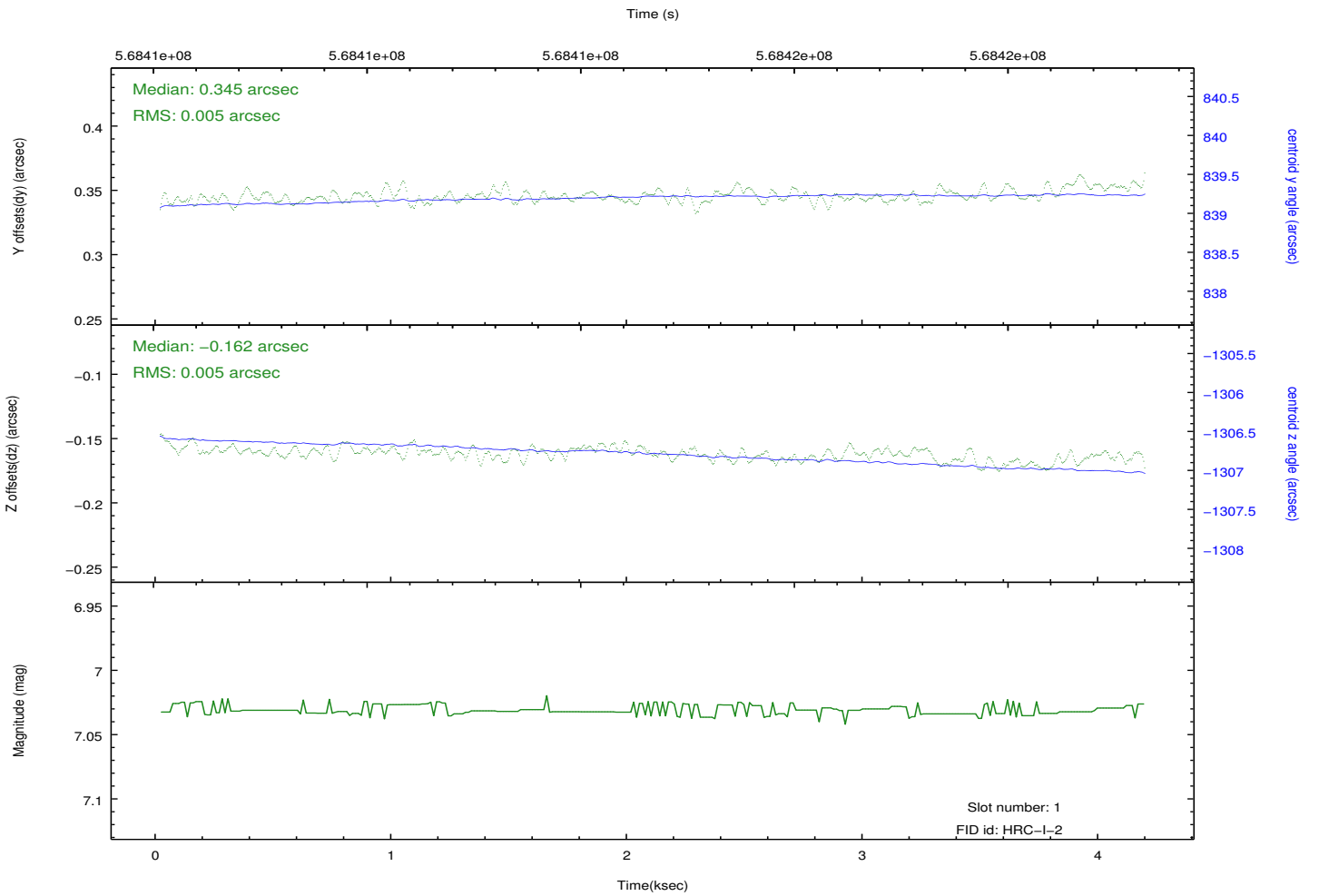
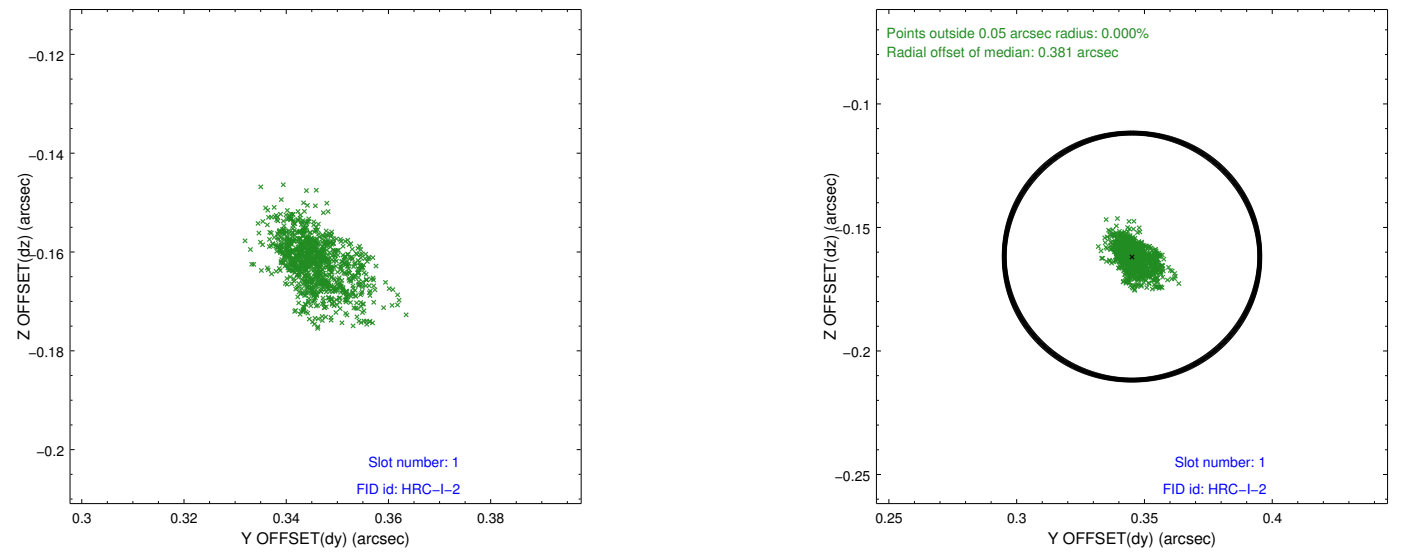


2.5 FID Slots

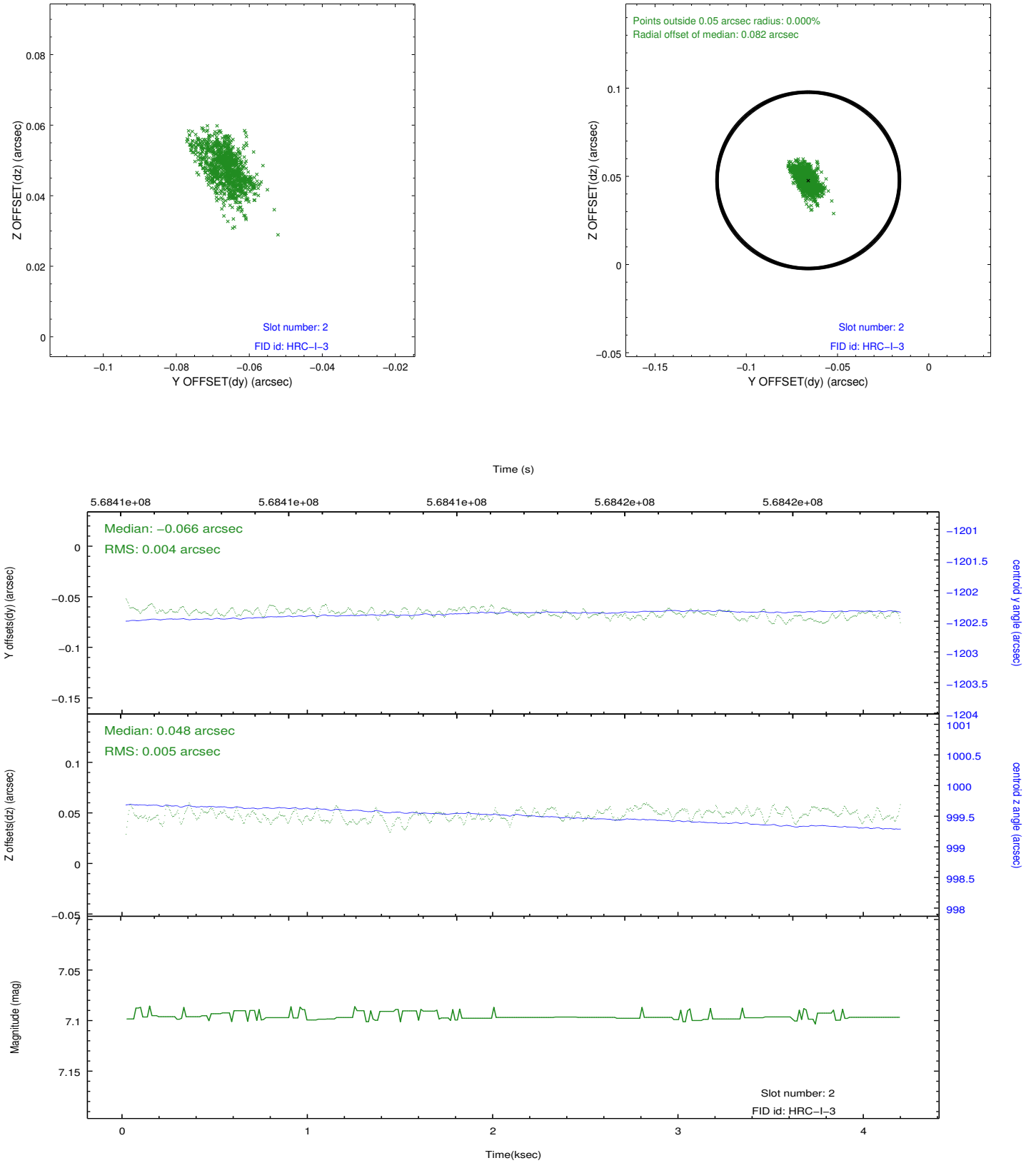
2.5.1 Slot 0



2.5.2 Slot 1

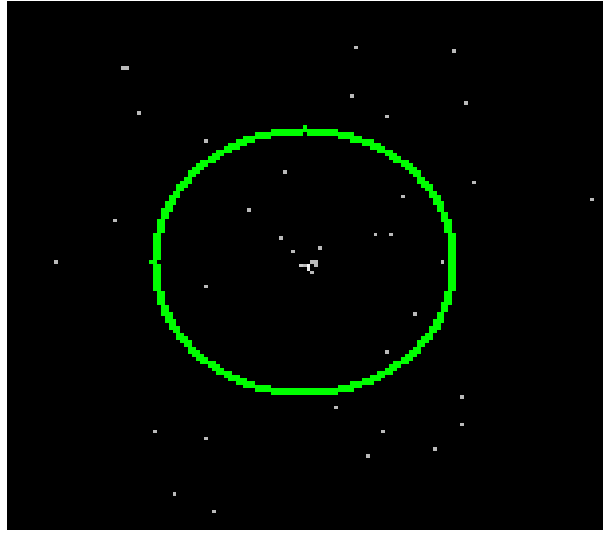


2.5.3 Slot 2

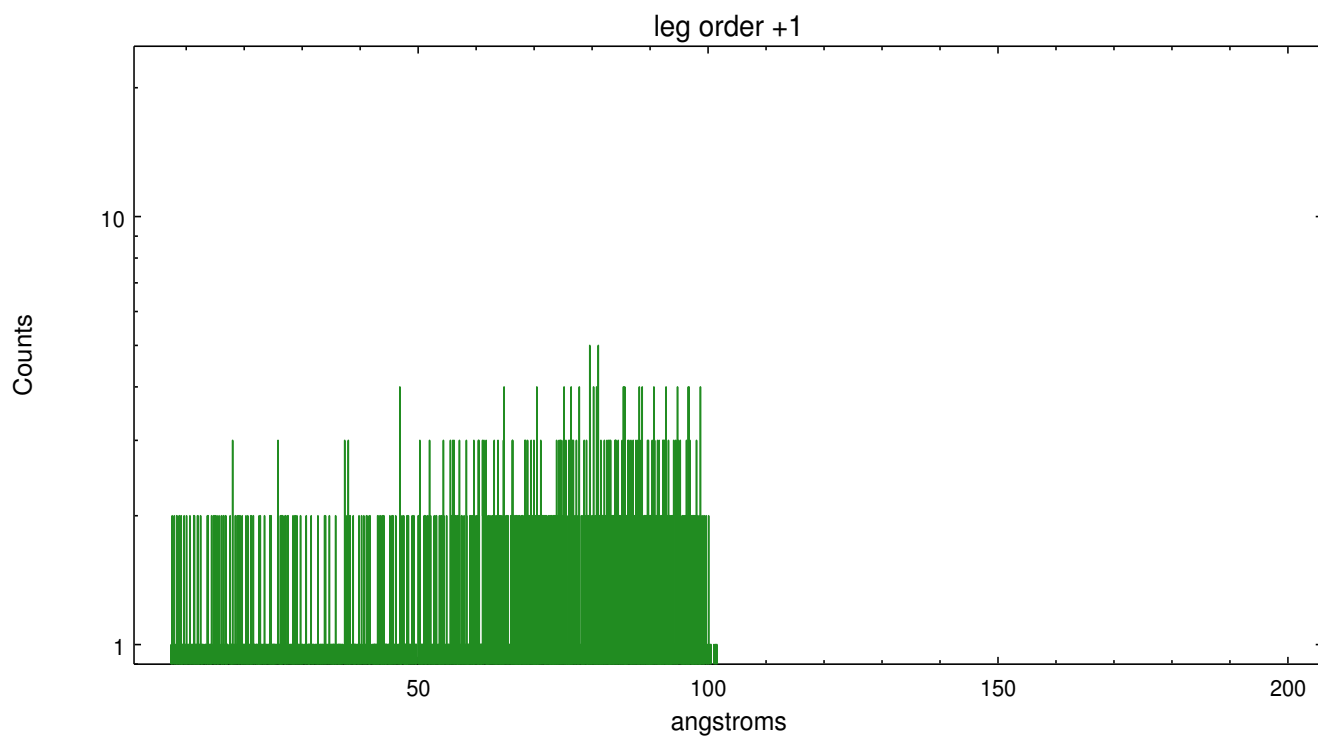
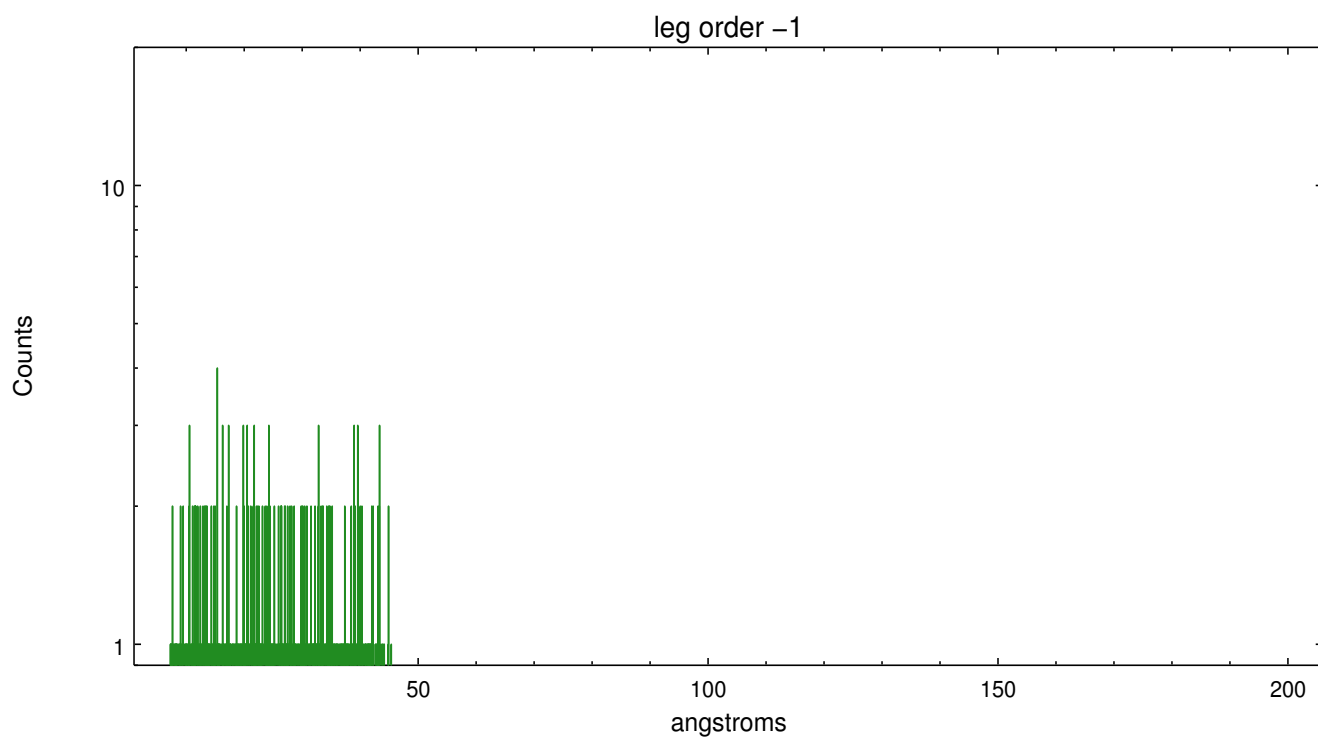


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1807189872265

A.2 Comments

Zeroth order is off-axis and not found by the software. Position of zeroth order was manually set to be the same as obsid 18414, where the source is on-axis.

The off-axis location of the source allows events to about 100 Å on the plus order side, but only about 45 Å on the minus order side.