

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3773 - L2 Version 001  
Chandra X-Ray Center

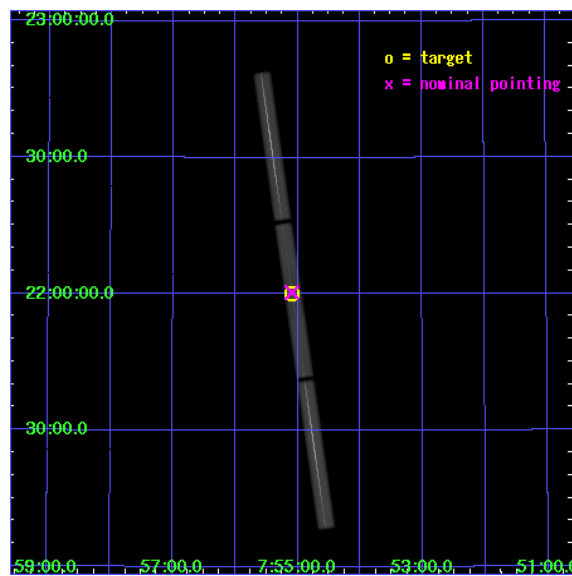
L2 Processing Date : Oct 16 2006

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# 1 Front

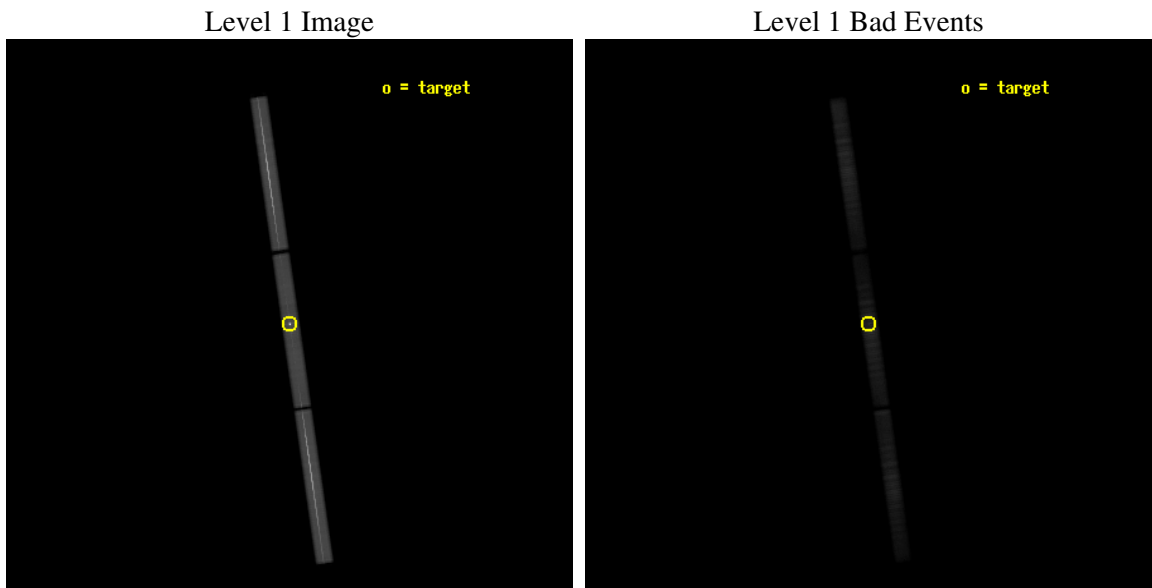
seq_num	300098
obs_id	3773
title	PROBING THE BOUNDARY LAYER AND WIND OF U GEM IN OUTBURST
observer	DR. KNOX LONG
object	U GEM
ra_targ	118.772083
dec_targ	22.001667
ra_nom	118.77295517206
dec_nom	22.006270255994
roll_nom	81.735150184784
revision	2
ontime	47912.858251899
livetime	47341.010104763
l2events	3989155



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-16T05:24:12
revision	2

sched_exp_time	47930.000000
ontime	47994.602005303
l1events	4990882

### 2.1.3 Events

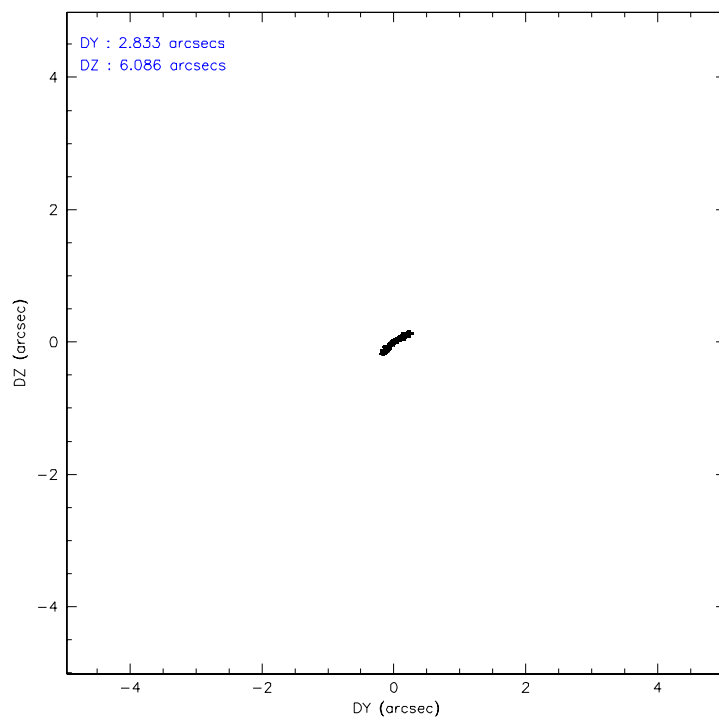
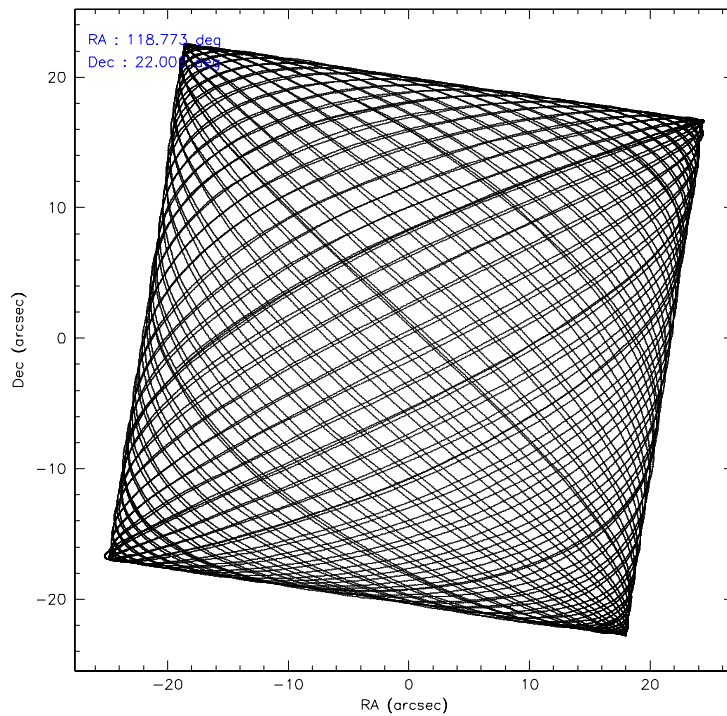
#### Level 1 Events

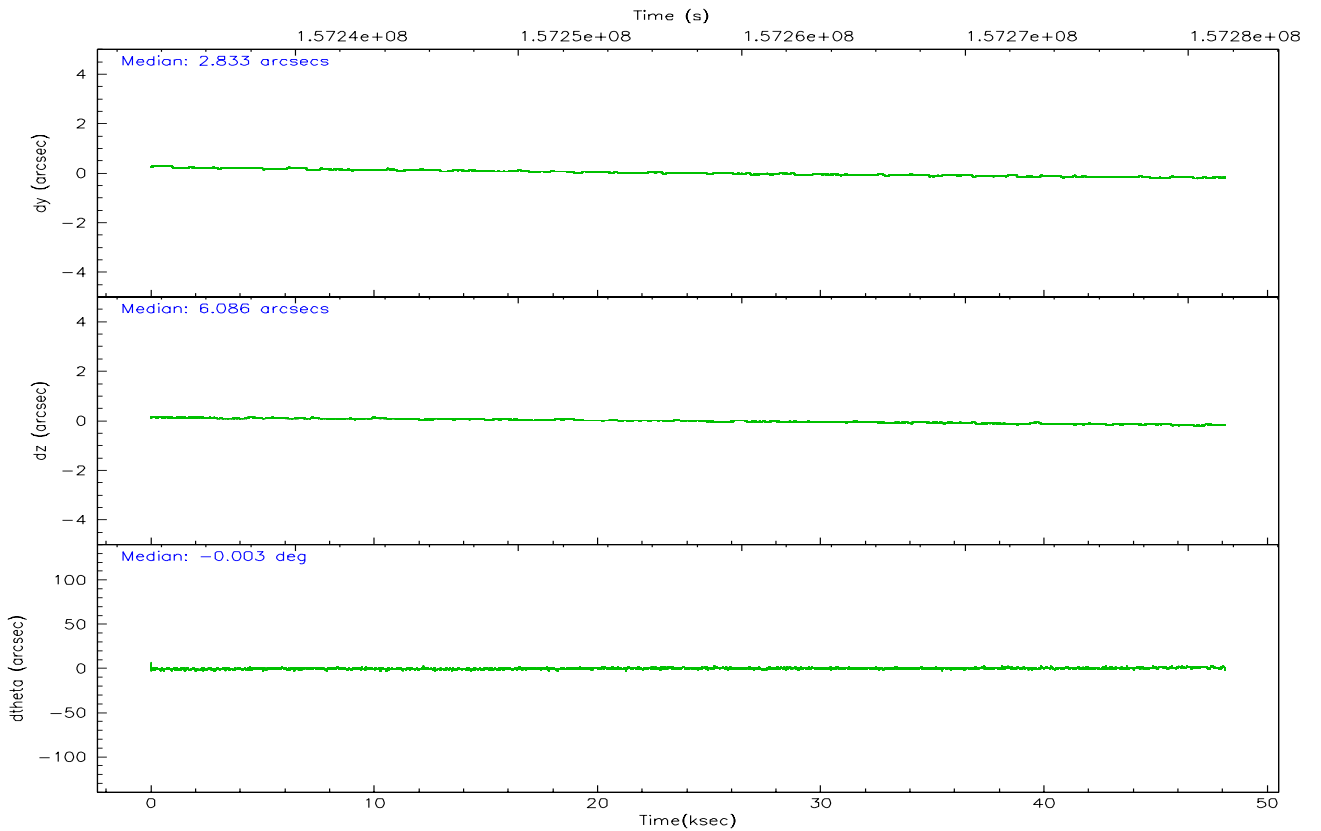
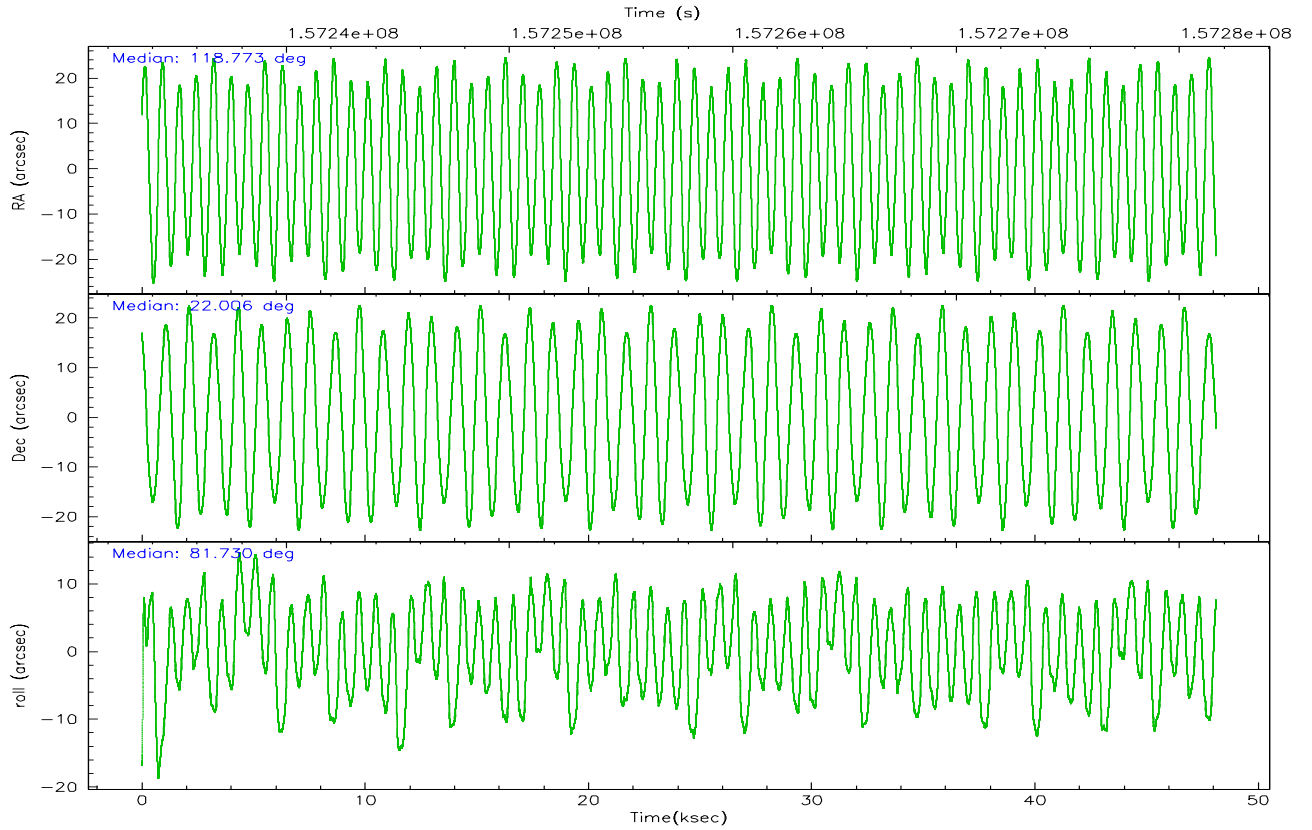
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1818179	1416347	1756356
rejected events	206182	224954	257092
rejected %	11%	15%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
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			
Pointing RA	118.785776	118.7729551720577			
Pointing Dec	21.980269	22.00627025599398			
Pointing Roll	81.663018	81.73515018478396			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.4635187648994			
SIM translation stage offset (mm)	0	-0.007540371344731511			
Observation start time	157233726.184000	157233015.2325			
Observation start date	2002-12-25T20:01:02	2002-12-25T19:50:15			
Observation end time	157281656.184000	157282119.90955			
Observation end date	2002-12-26T09:19:52	2002-12-26T09:28:39			

## 2.3 Aspect



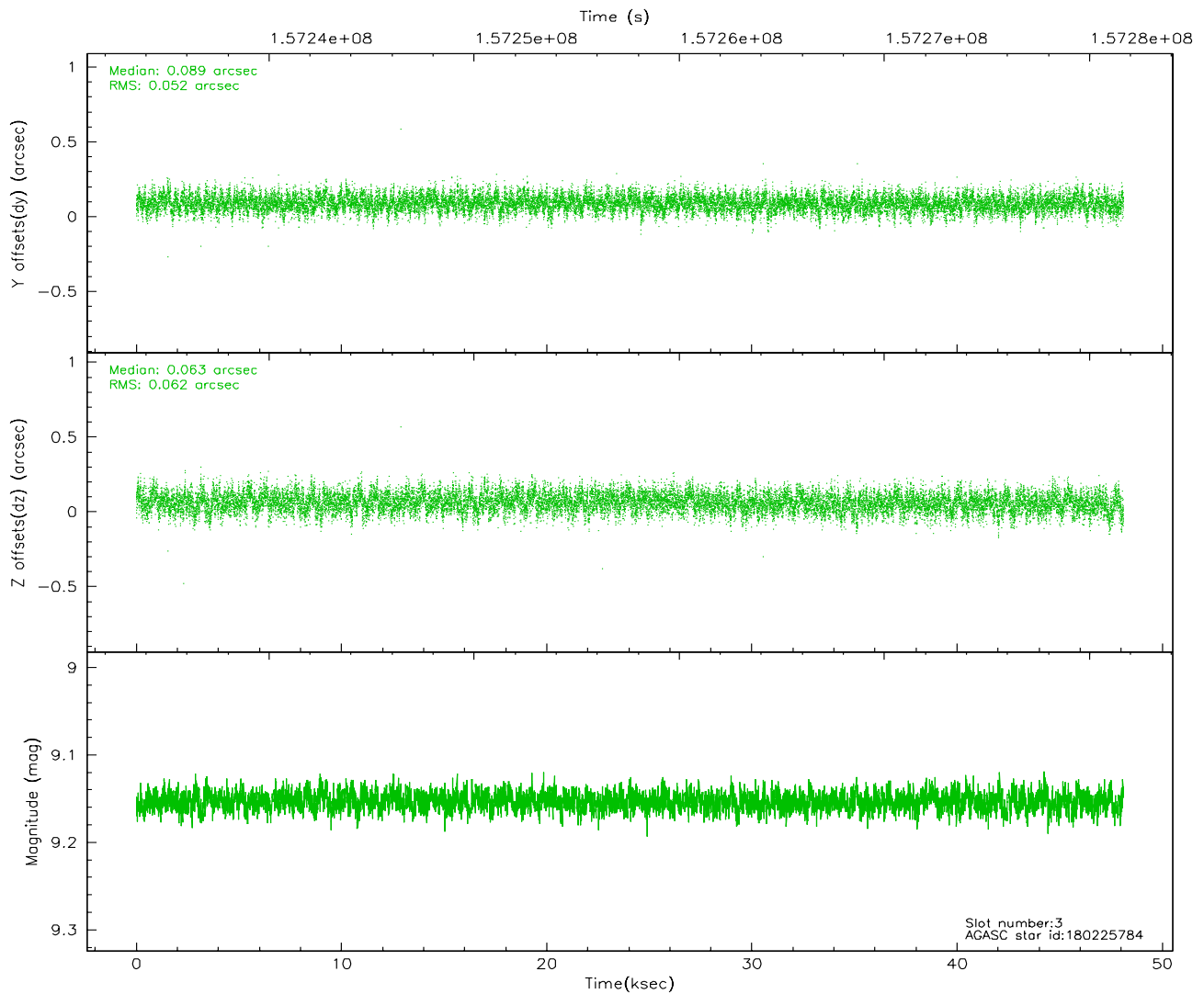
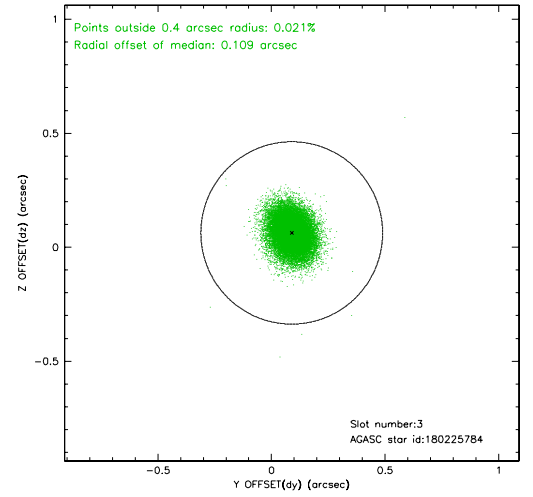
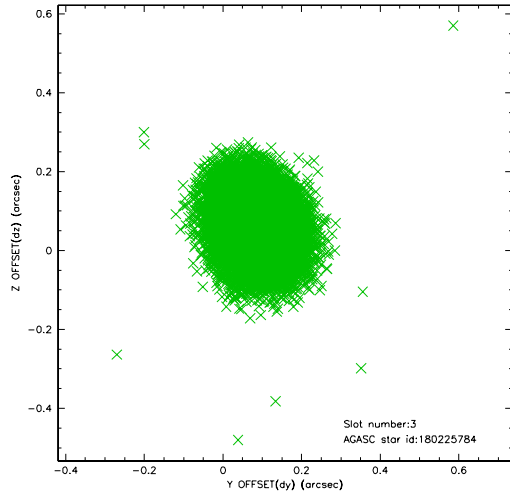


### Slot Statistics

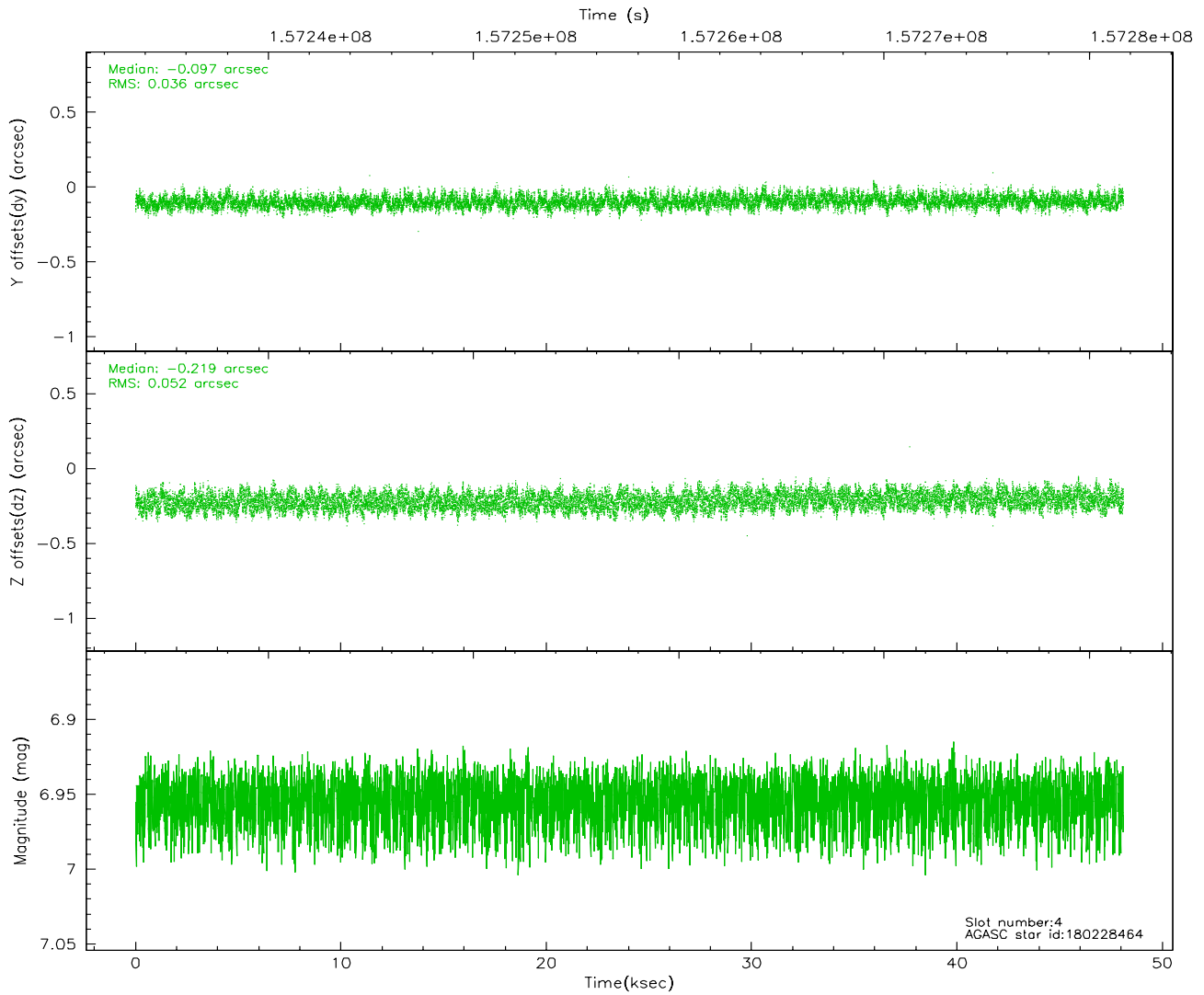
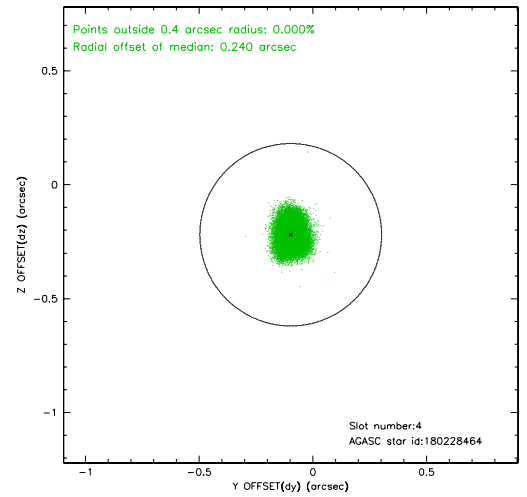
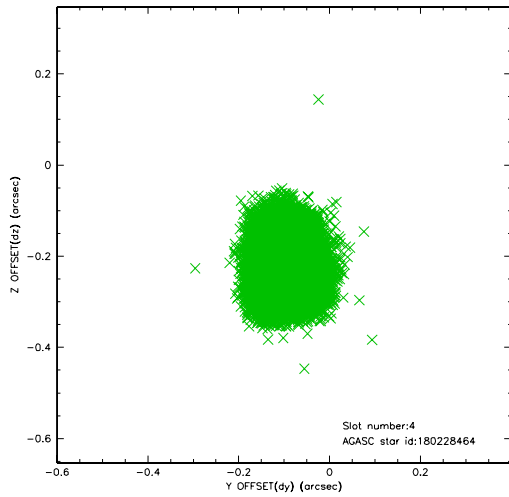
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-2	7.01	11736	0.120	-0.164	0.013	0.020	0.000000	0.000000	1242.78	-447.23
1	FID	HRC-S-3	7.03	11736	0.130	-0.104	0.015	0.025	0.000000	0.000000	-1159.50	574.97
2	FID	HRC-S-4	6.96	11735	0.158	-0.027	0.010	0.016	0.000000	0.000000	1241.30	577.68
3	GUIDE	180225784	9.15	23460	0.089	0.063	0.085	0.139	119.097851	21.836390	-359.93	-1106.74
4	GUIDE	180228464	6.95	23473	-0.097	-0.219	0.068	0.107	118.254204	22.334528	1008.17	1936.65
5	GUIDE	252317448	7.50	23473	-0.187	0.125	0.069	0.115	119.081958	22.571691	2250.01	-664.95
6	GUIDE	180228192	9.34	23325	0.055	-0.083	0.116	0.184	118.222338	22.282125	806.75	2015.16
7	GUIDE	180231064	9.89	23321	0.145	0.113	0.119	0.193	119.121264	21.347102	-2090.60	-1443.28

## 2.4 Star Slots

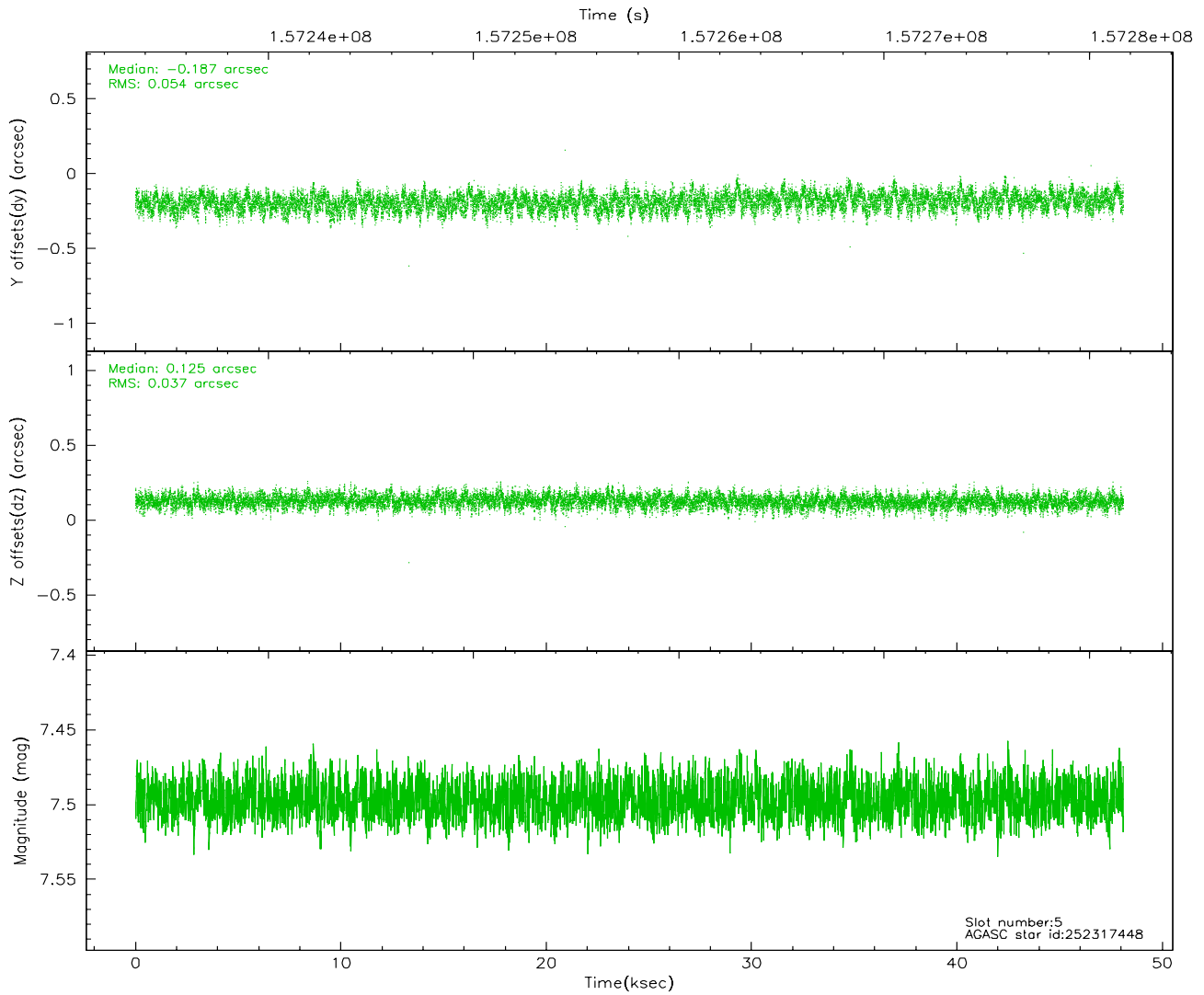
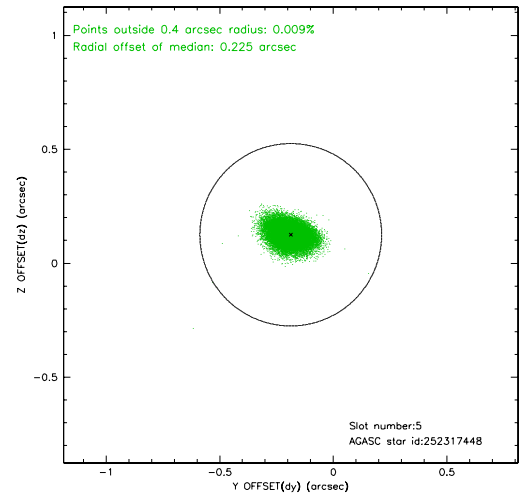
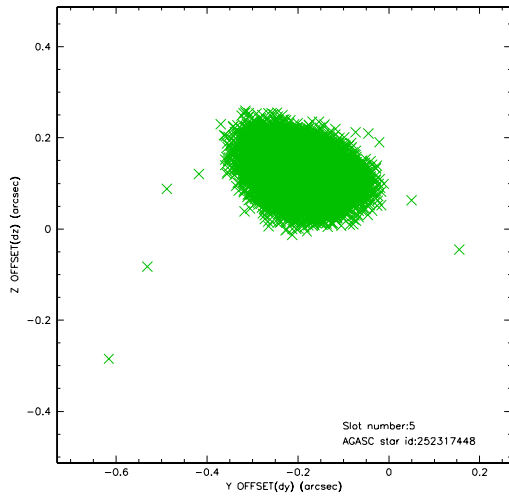
### 2.4.1 Slot 3



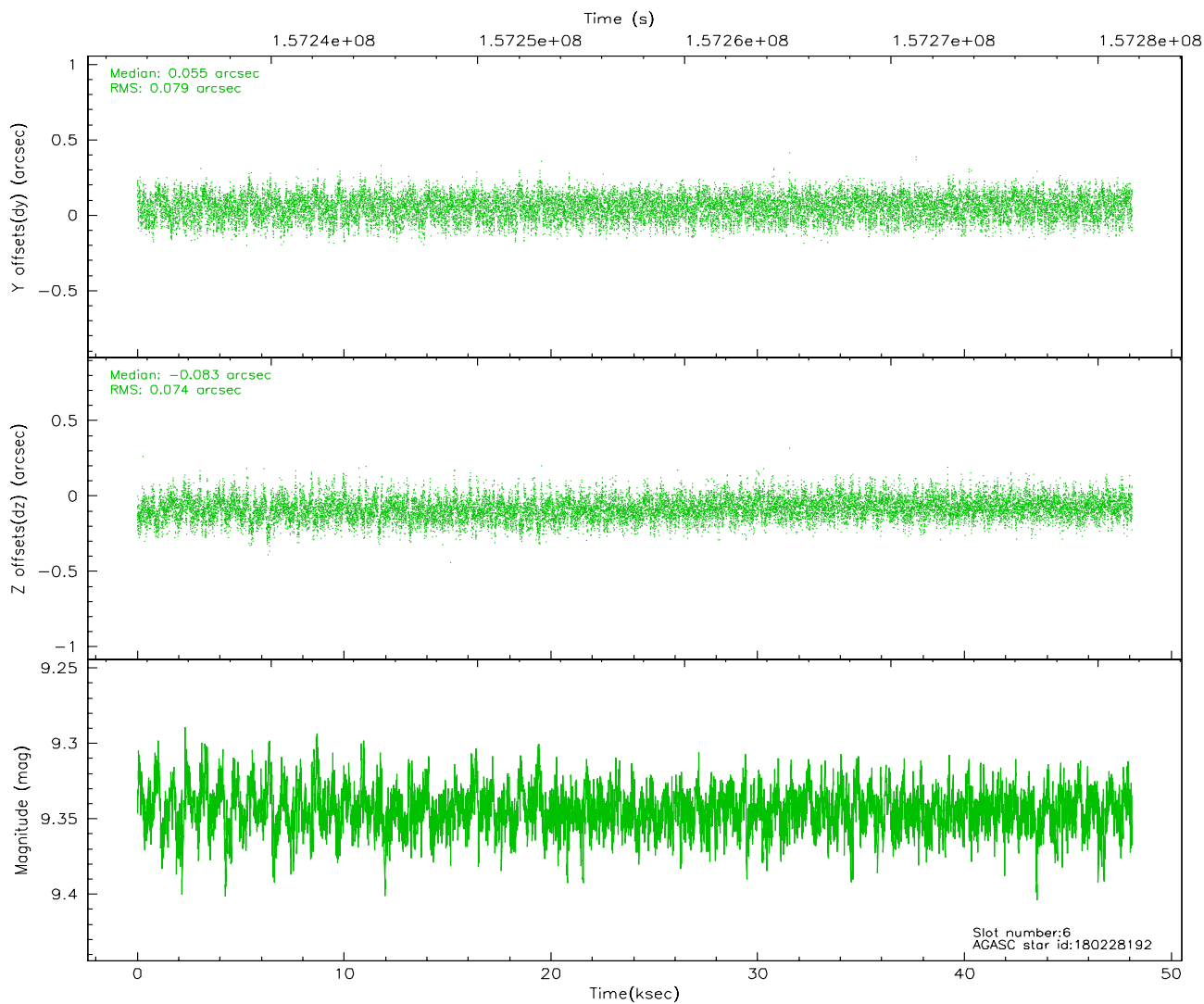
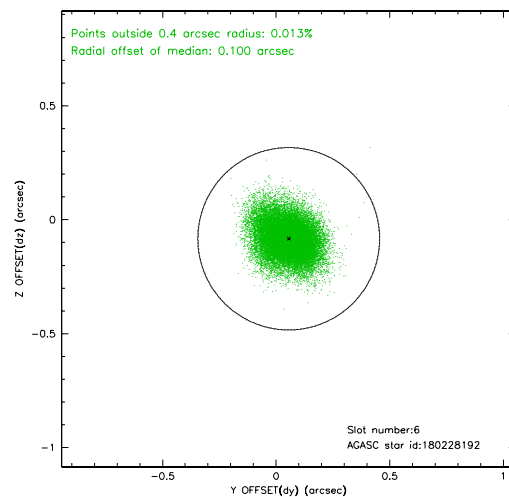
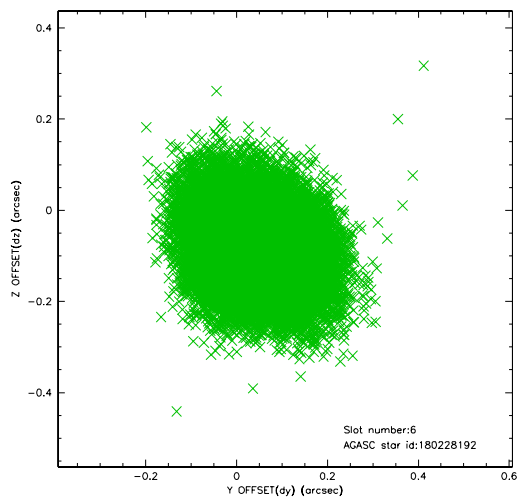
### 2.4.2 Slot 4



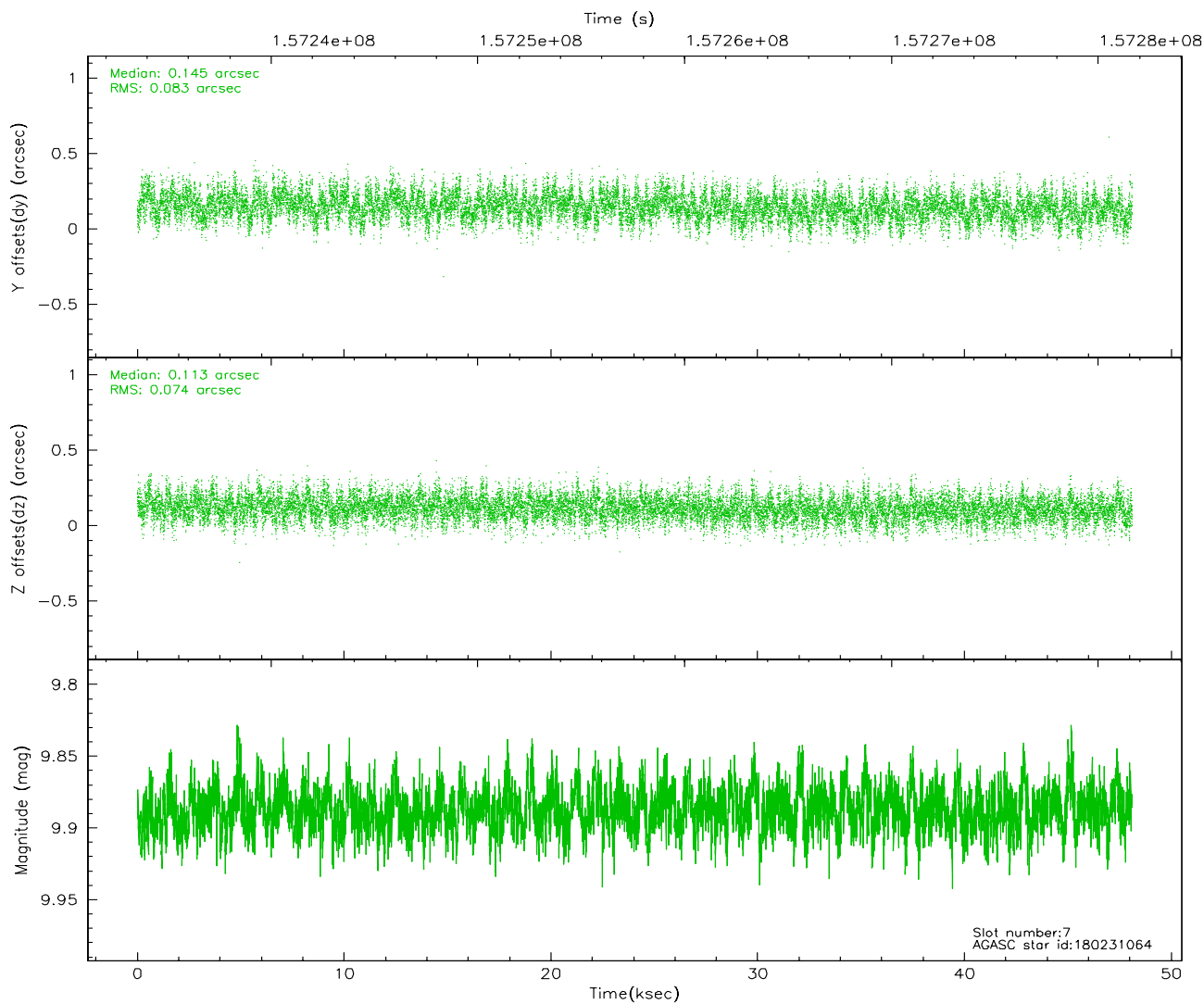
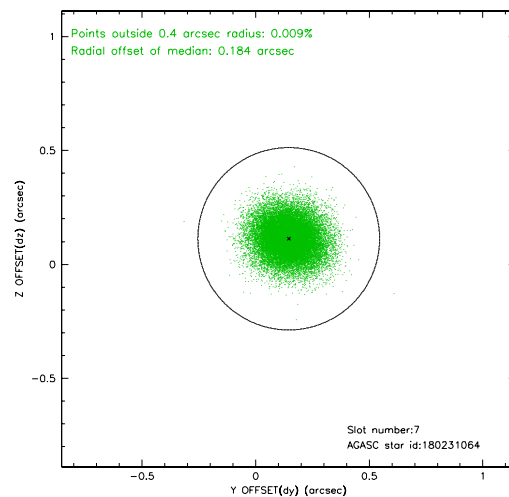
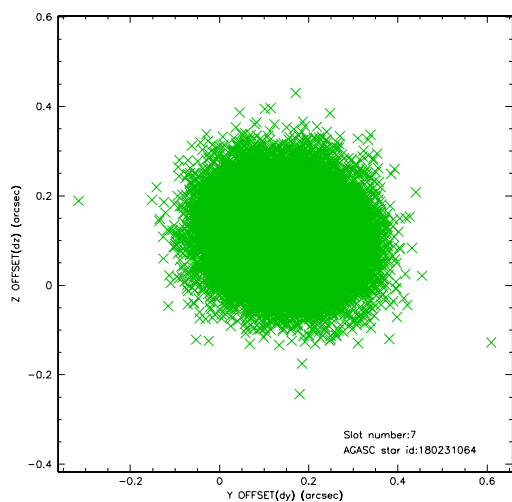
### 2.4.3 Slot 5



### 2.4.4 Slot 6

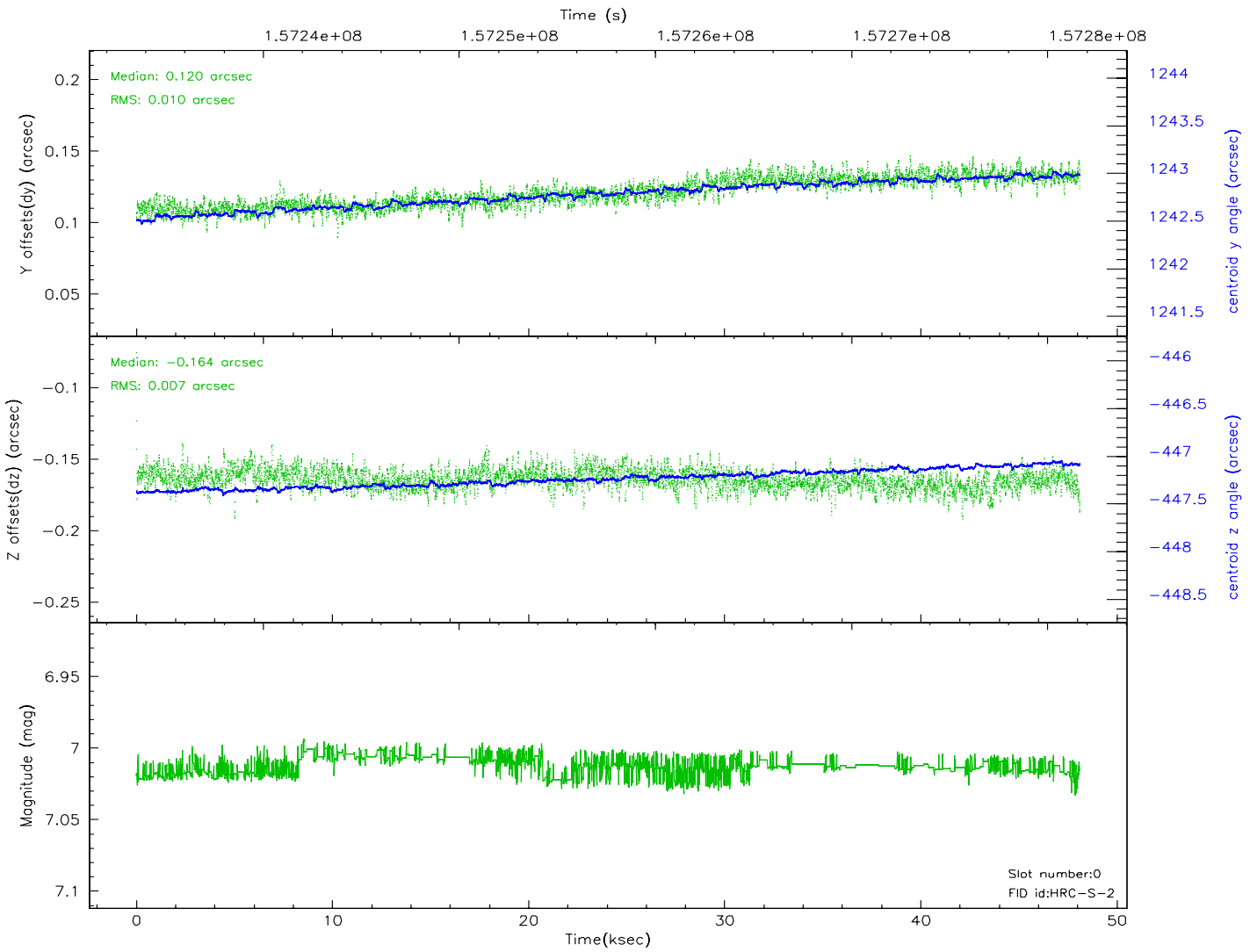
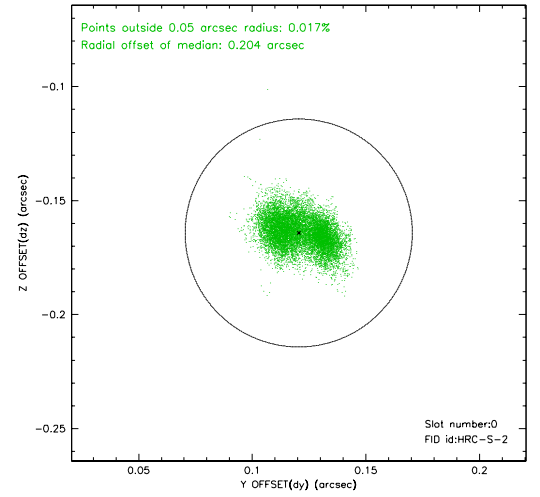
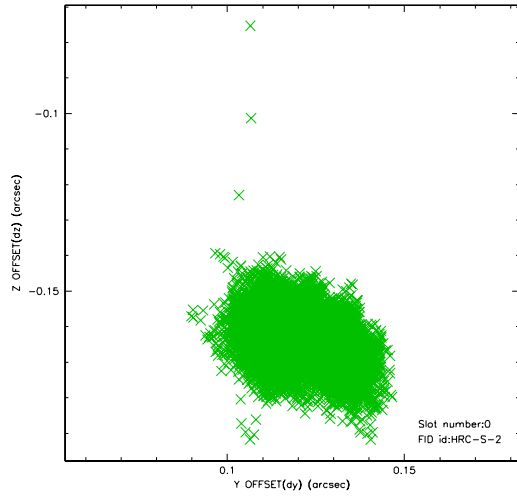


## 2.4.5 Slot 7

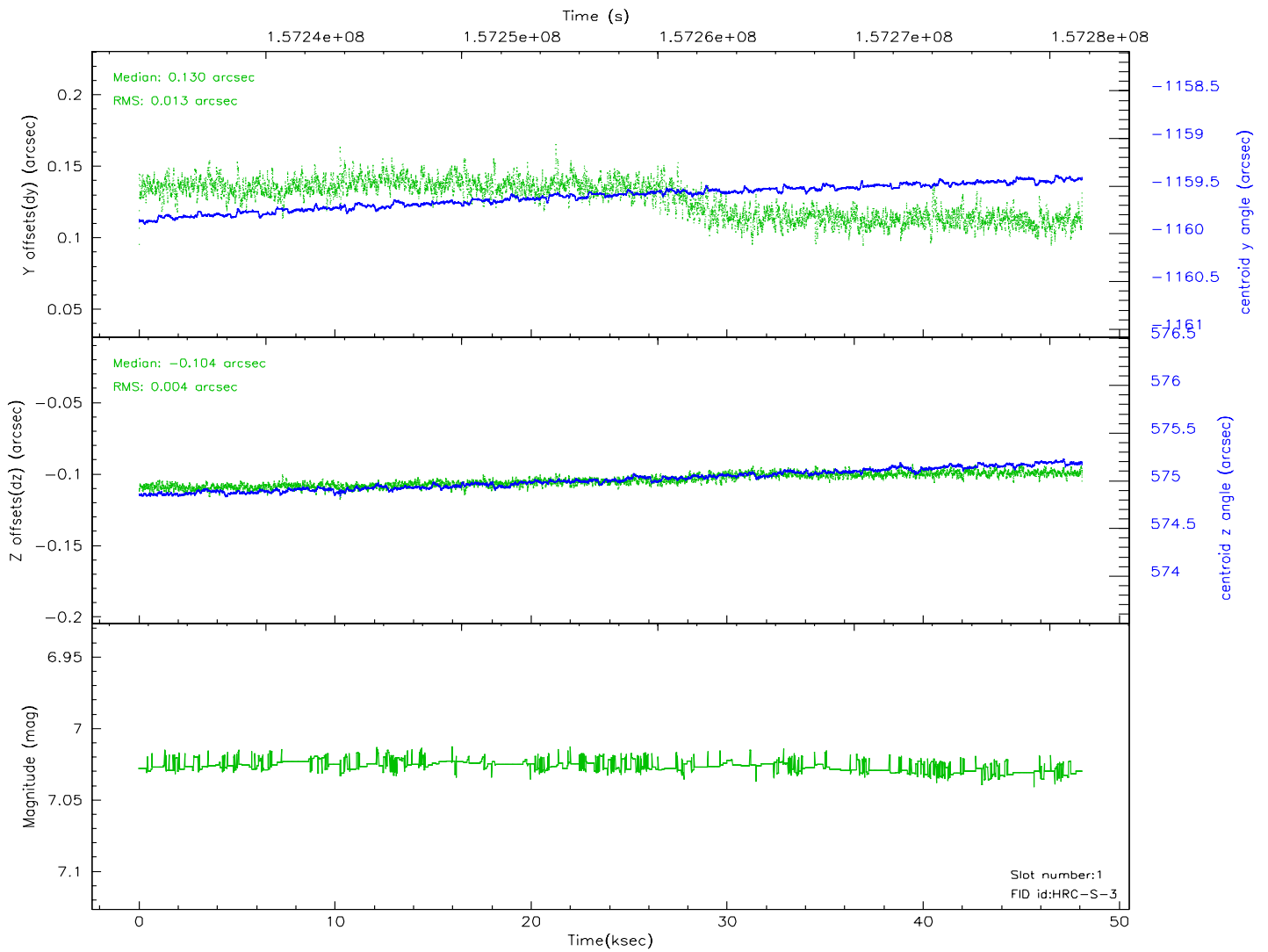
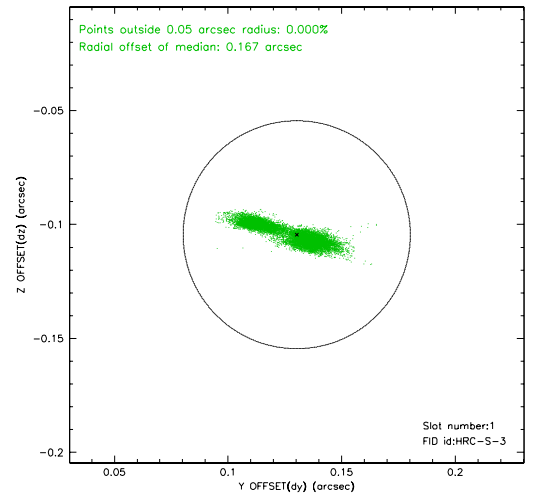
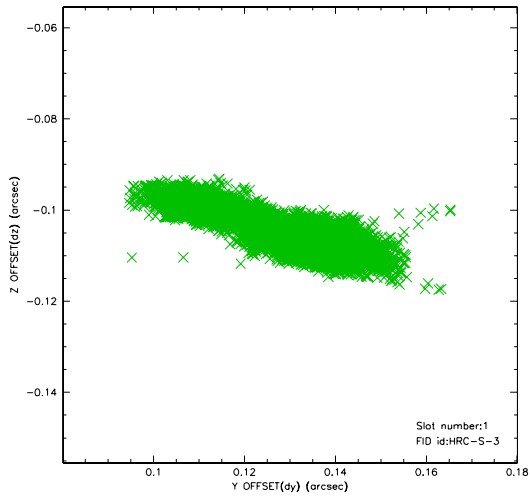


## 2.5 FID Slots

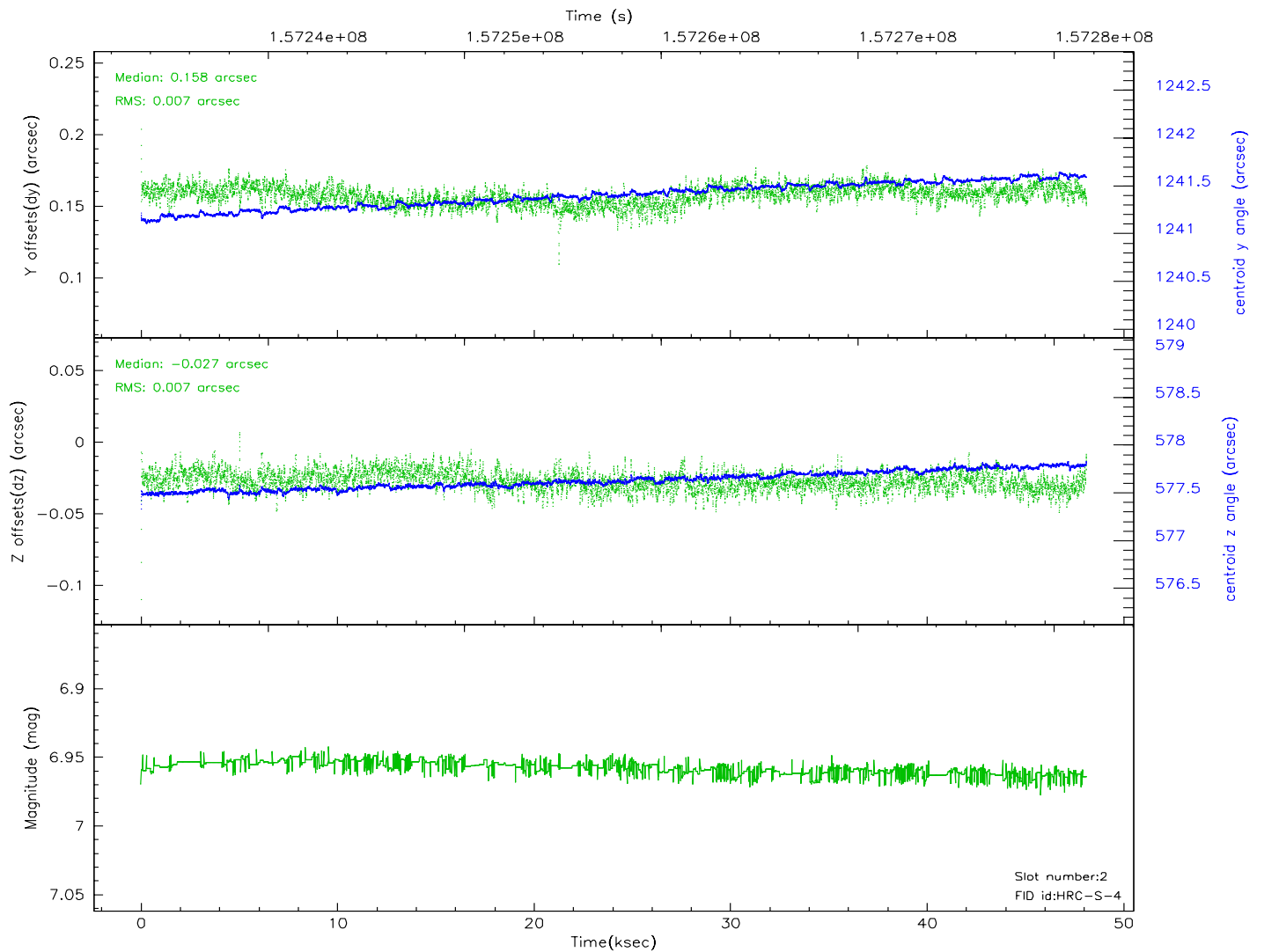
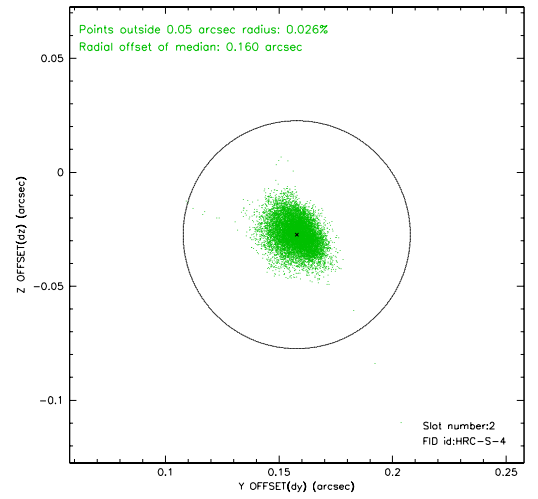
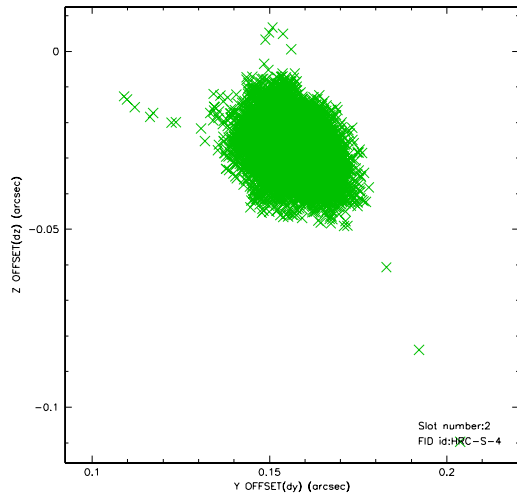
### 2.5.1 Slot 0



## 2.5.2 Slot 1

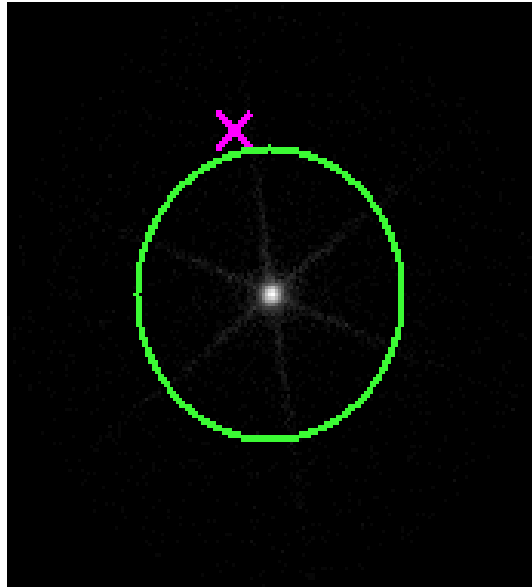


### 2.5.3 Slot 2



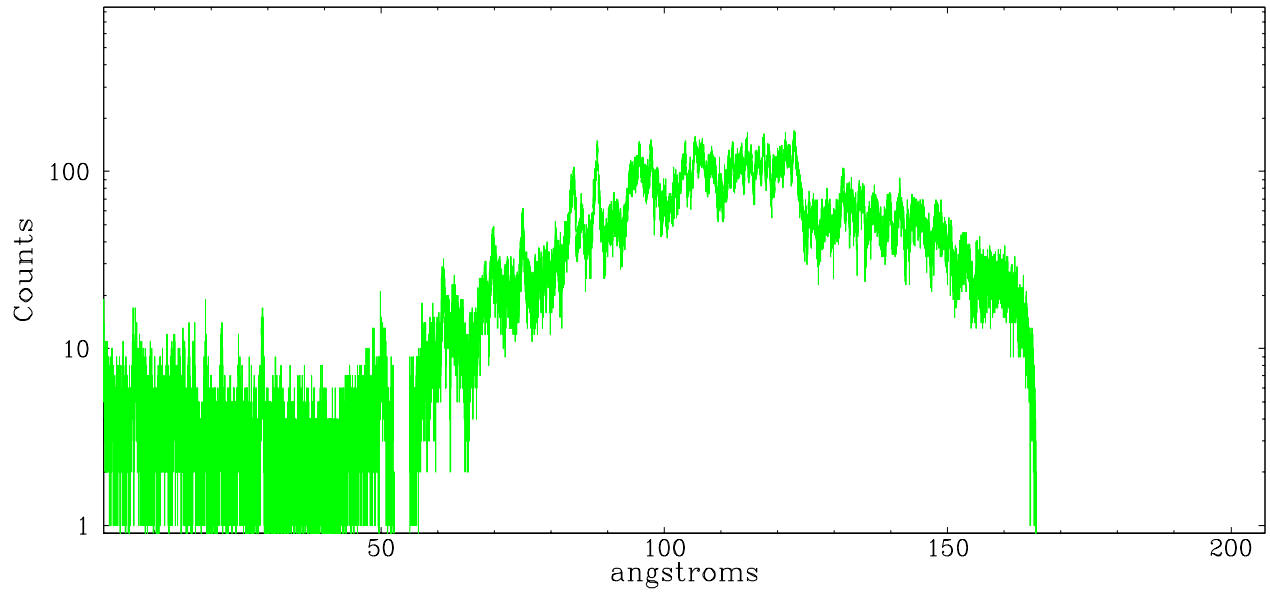
# 3 Gratings

## 3.1 LETG Arm

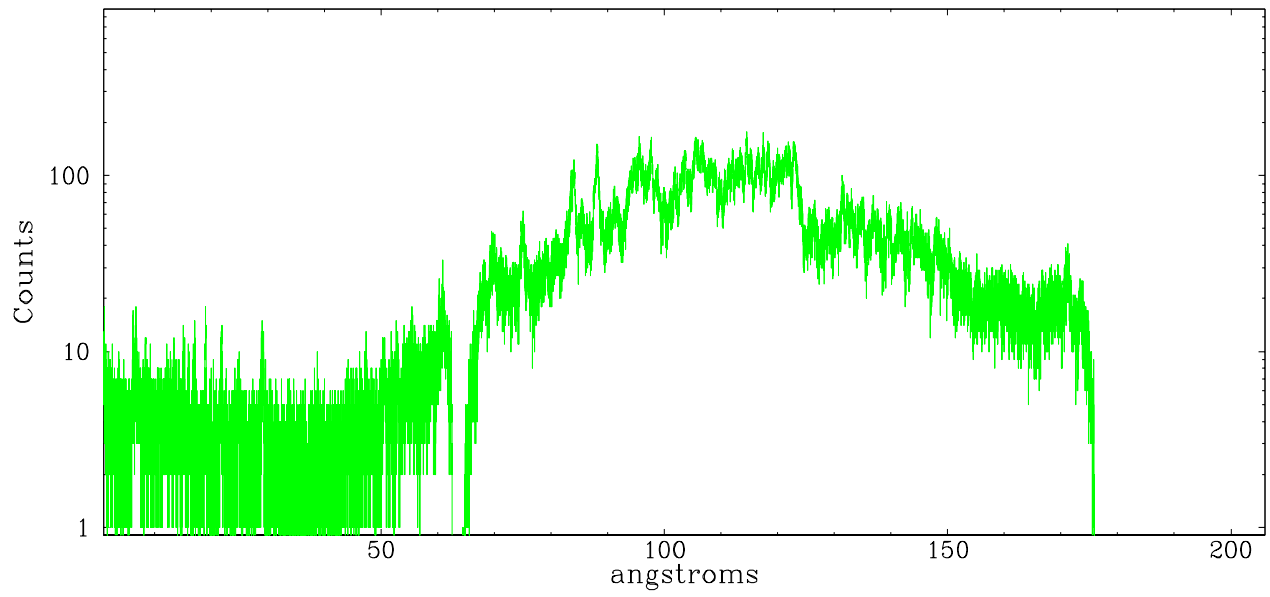


LETG Zero Order

leg order -1



leg order +1



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.912

## A.2 Comments

Enhanced count rate during first 12 ksec of observation, probably due to radiation event.