

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8600 - L2 Version 3  
Chandra X-Ray Center

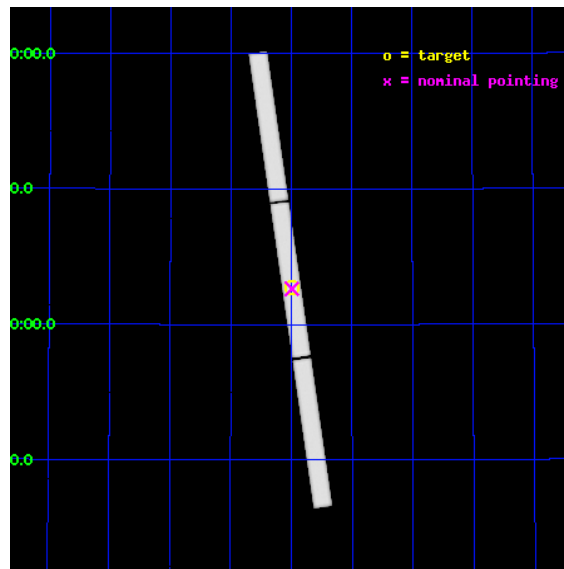
L2 Processing Date : Aug 12 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
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
<b>3</b>	<b>Gratings</b>	<b>17</b>
3.1	LETG Arm . . . . .	17
<b>A</b>	<b>Summary</b>	<b>19</b>
A.1	Status . . . . .	19
A.2	Comments . . . . .	19

# 1 Front

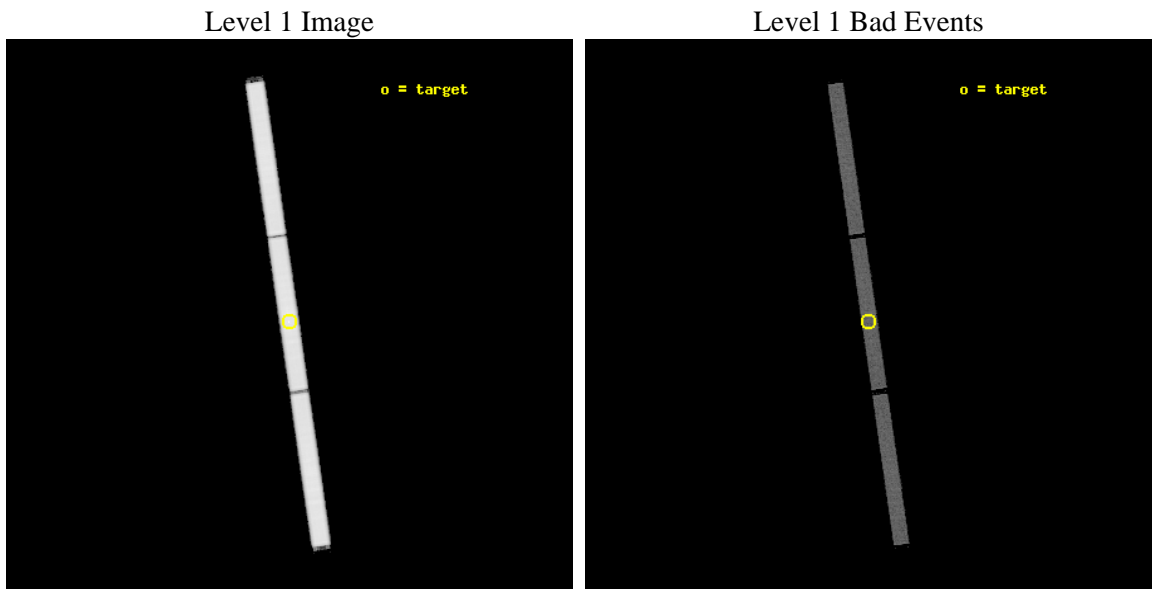
seq_num	701390	Sequence number
obs_id	8600	Observation id
title	Monitoring the changing wind of a Seyfert galaxy	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	NGC 5548	Source name
ra_targ	214.498333	Observer's specified target RA [deg]
dec_targ	25.137056	Observer's specified target Dec [deg]
ra_nom	214.49747920194	Nominal RA [deg]
dec_nom	25.132365698042	Nominal Dec [deg]
roll_nom	261.66770712216	Nominal Roll [deg]
revision	3	Processing version of data
ontime	37184.183036149	[s]
liveltime	36816.61678925	Ontime multiplied by DTCOR
l2events	3082674	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	37000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	37184.183036149	[s]
caldbver	4.5.1.1	&#160	l1events	4208087	Number of level 1 events
date	2012-08-12T01:11:15	Date and time of file creation			
revision	3	Processing version of data			

## 2.1.3 Events

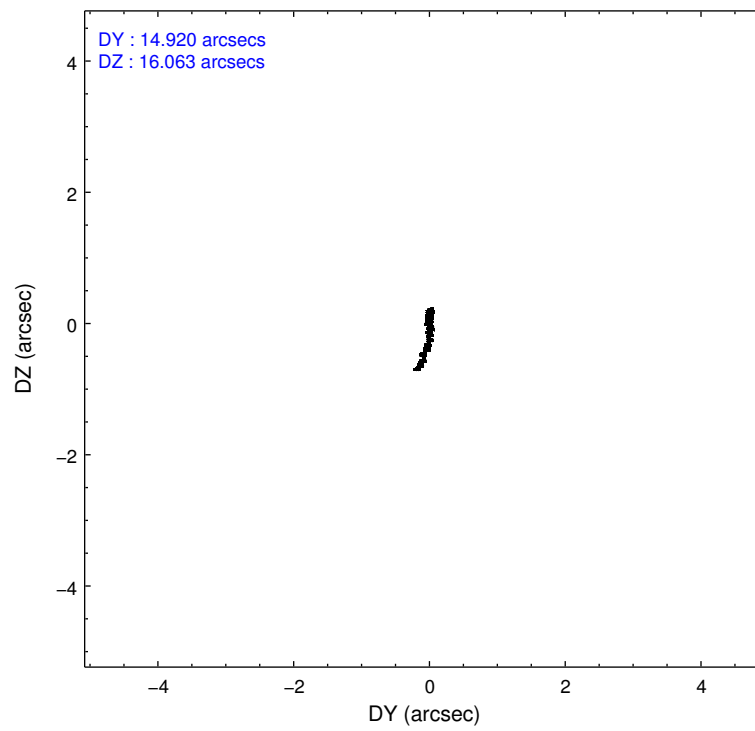
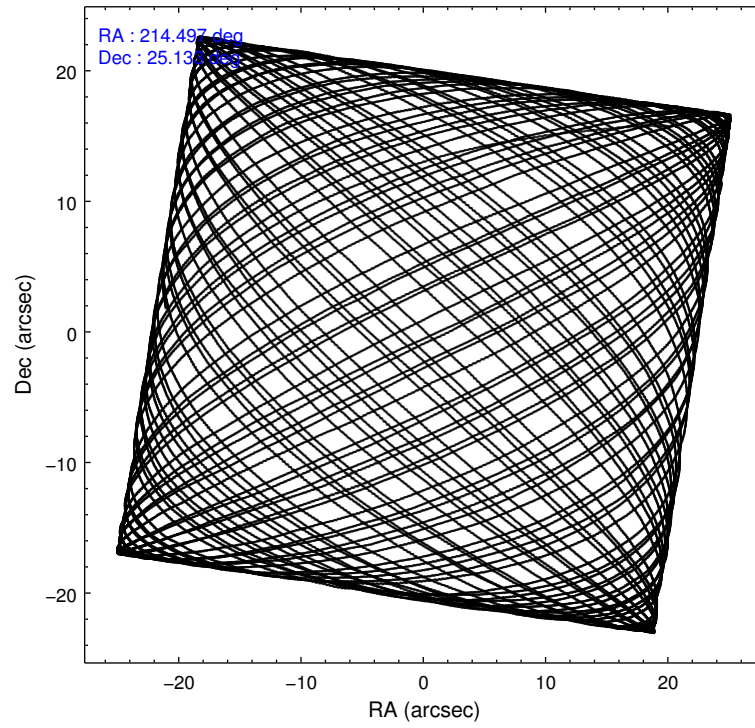
### Level 1 Events

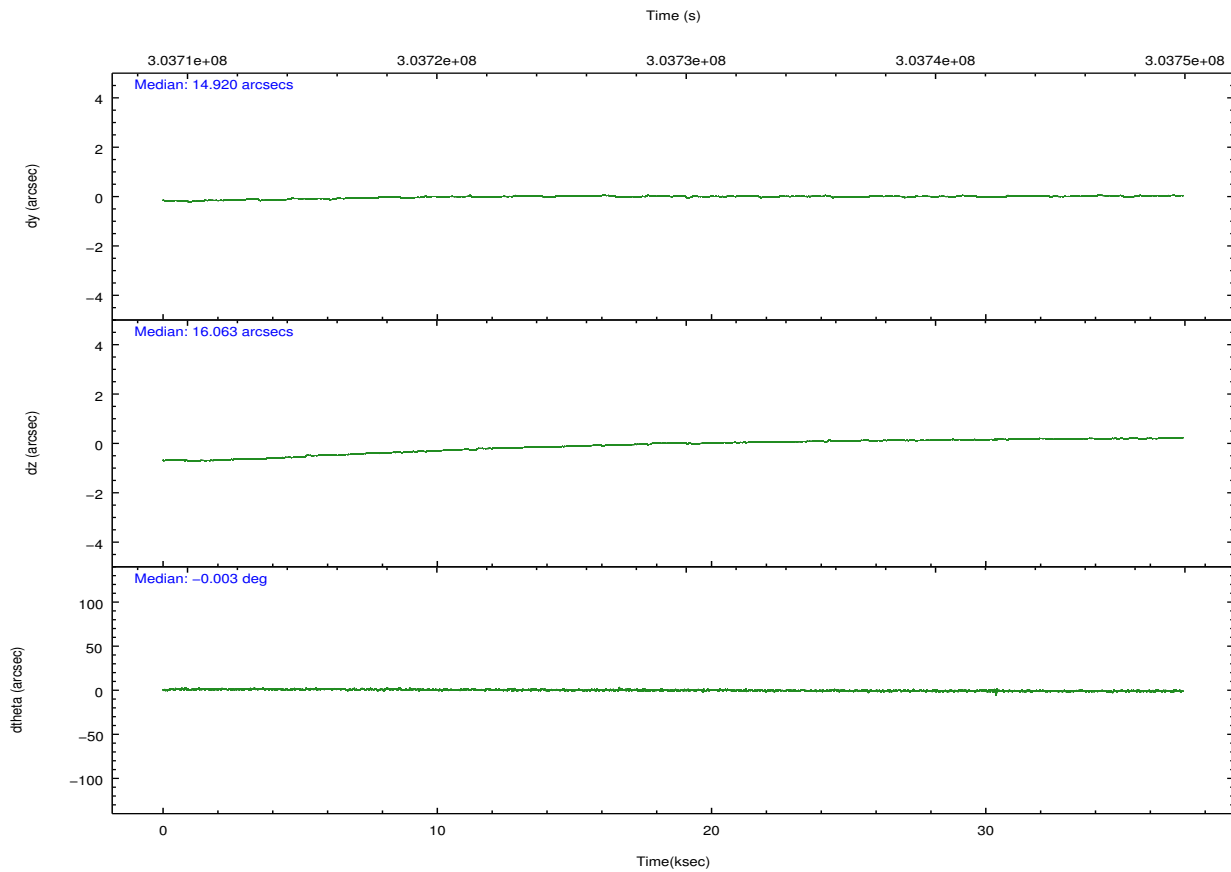
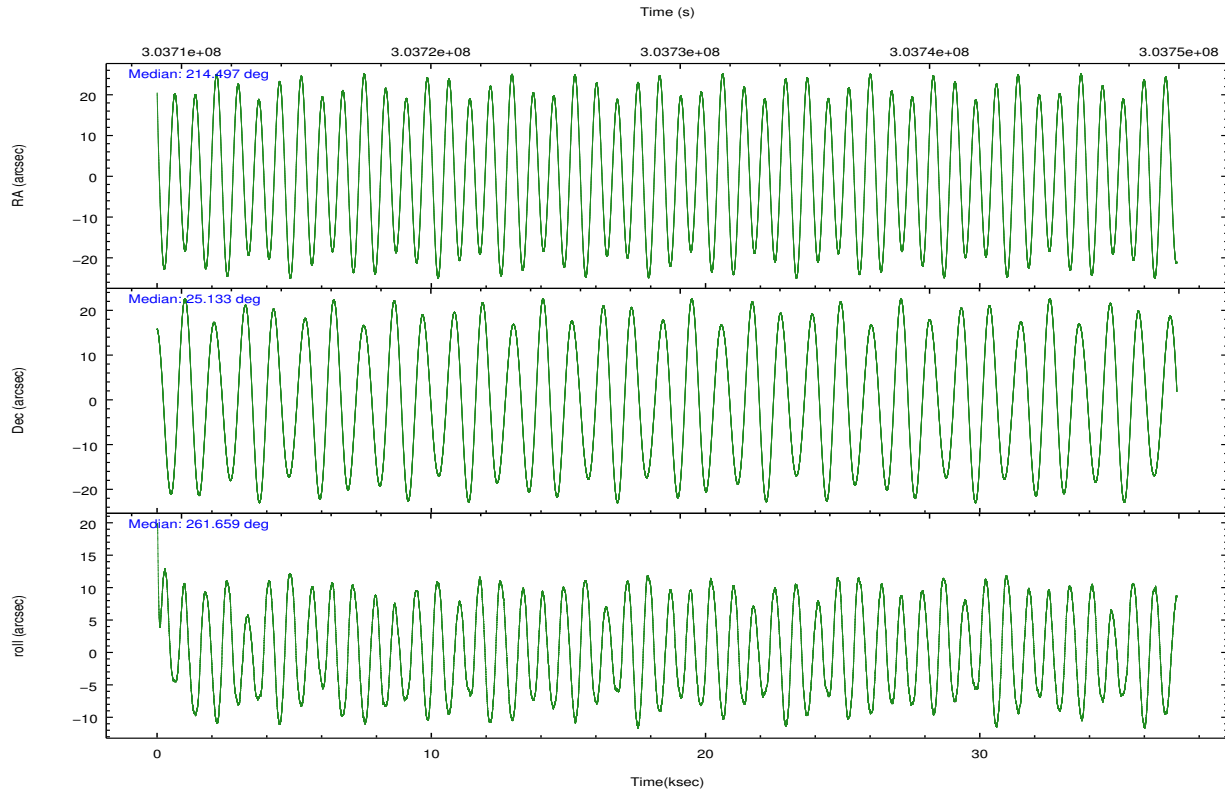
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1412682	1383292	1412113
rejected events	56583	55728	56688
rejected %	4%	4%	4%

## 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	214.484332	214.4974792019447			
[deg] Pointing Dec	25.158467	25.13236569804208			
[deg] Pointing Roll	261.605948	261.667707122158			
[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)	303711067.184000	303710156.3952			
Observation start date	2007-08-17T04:10:02	2007-08-17T03:55:56			
[s] Observation end time (MET)	303748067.184000	303748894.22206			
Observation end date	2007-08-17T14:26:42	2007-08-17T14:41:34			

## 2.3 Aspect



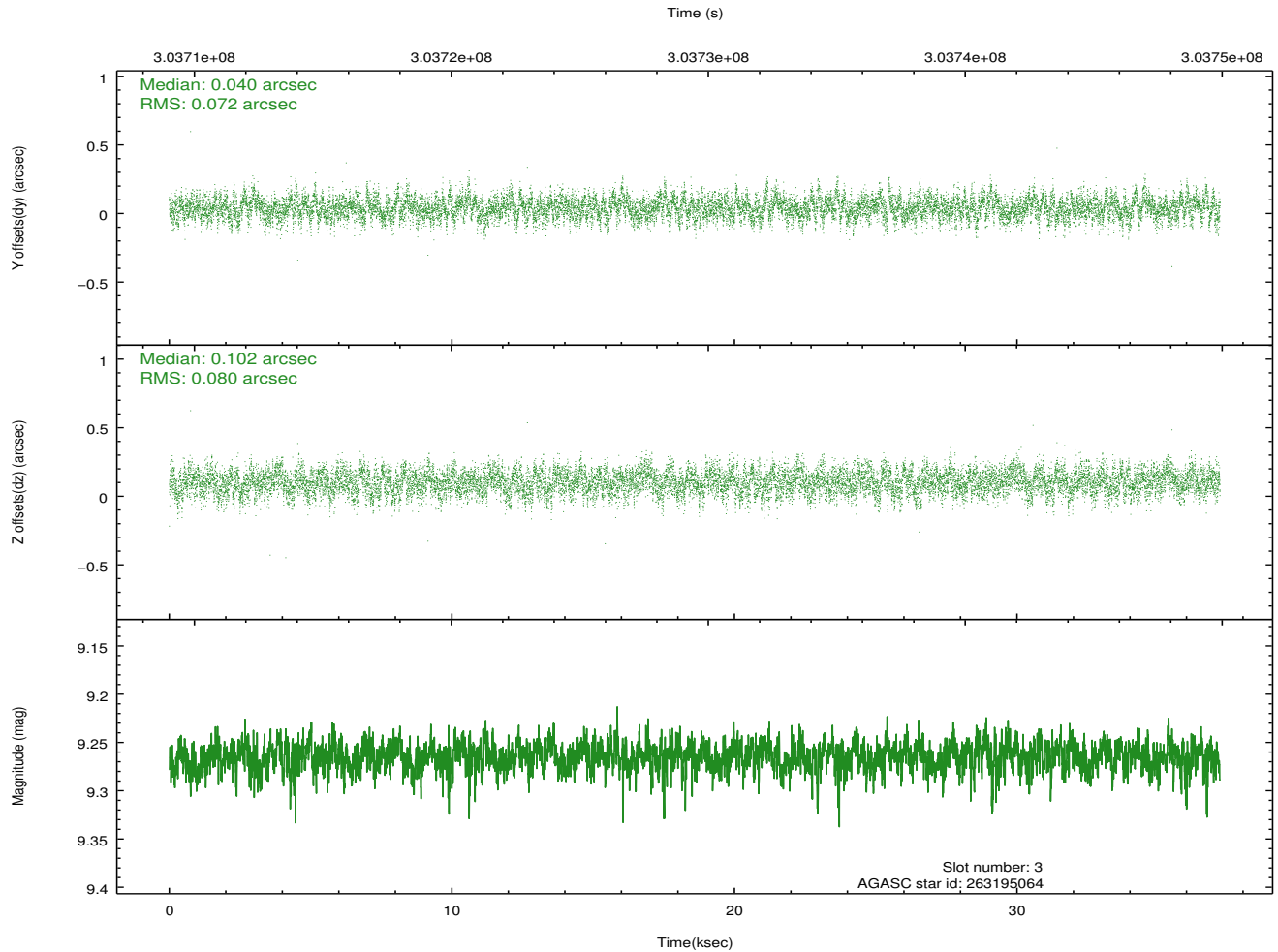
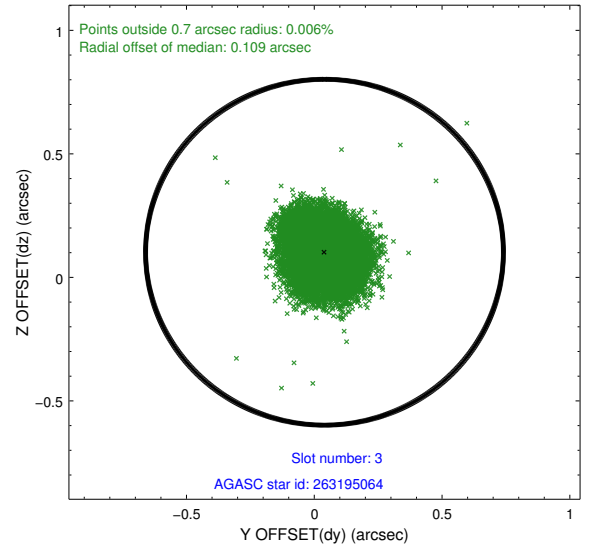
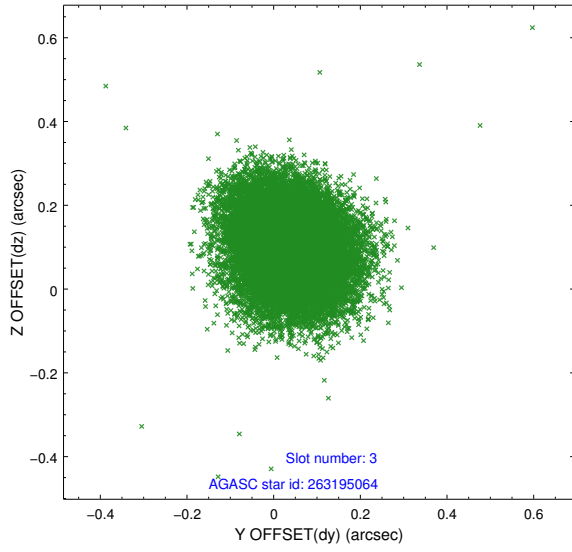


### Slot Statistics

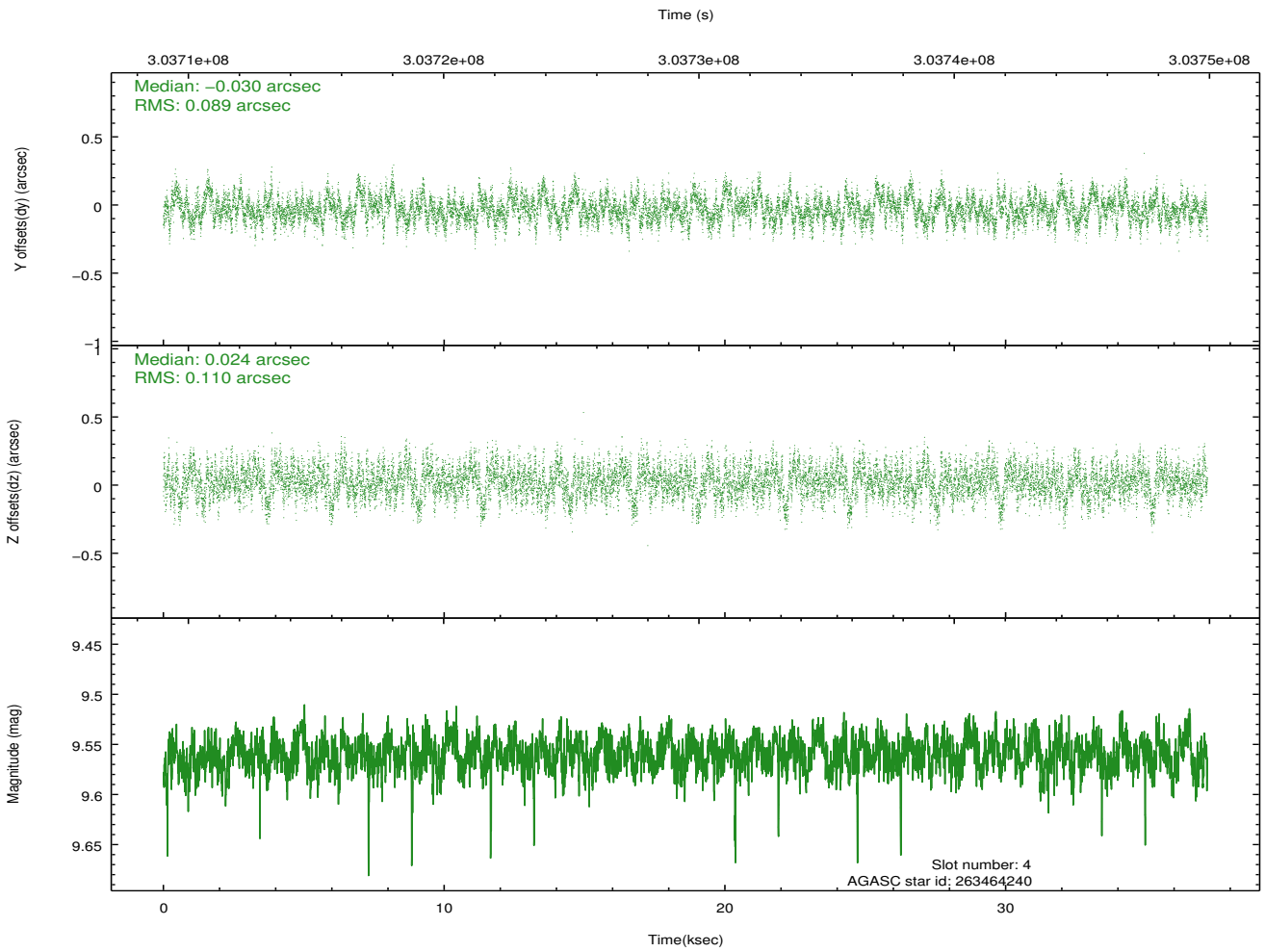
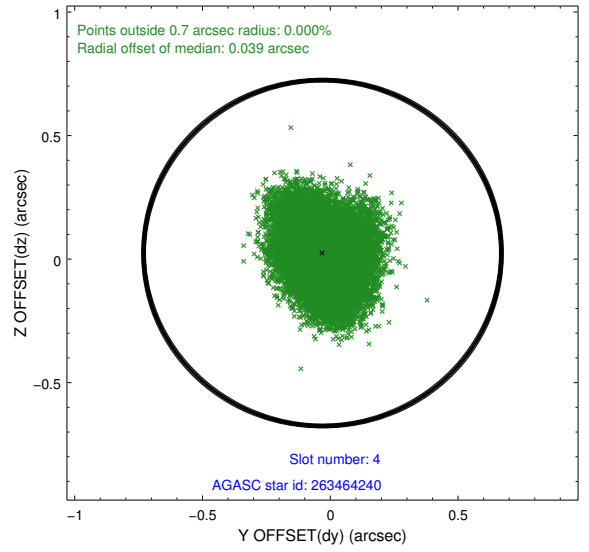
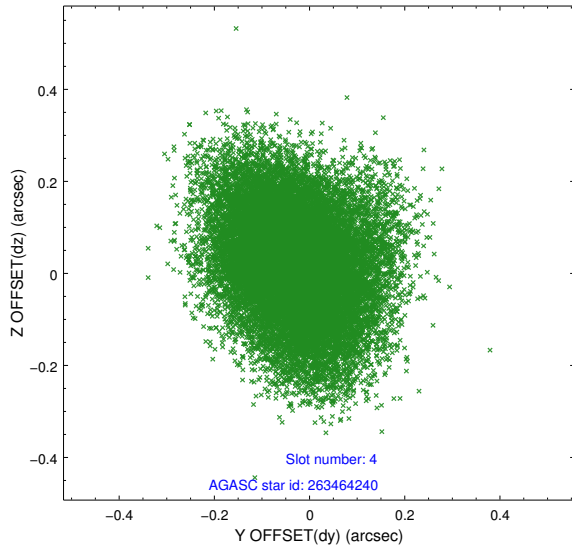
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	9070	0.076	-0.171	0.016	0.033	0.000000	0.000000	-1169.30	-464.85
1	FID	HRC-S-2	6.99	9070	0.185	-0.101	0.005	0.010	0.000000	0.000000	1230.36	-457.47
2	FID	HRC-S-3	7.01	9070	0.129	-0.031	0.016	0.034	0.000000	0.000000	-1171.83	564.78
3	GUIDE	263195064	9.26	18080	0.040	0.102	0.115	0.184	215.129983	24.745063	1159.30	2305.35
4	GUIDE	263464240	9.56	18114	-0.030	0.024	0.151	0.245	213.729943	25.011897	875.17	-2358.25
5	GUIDE	263464688	9.19	18104	-0.037	-0.021	0.112	0.177	214.654702	25.305283	-603.73	471.41
6	GUIDE	263595296	9.81	18108	-0.075	0.039	0.147	0.240	214.929889	25.645337	-1947.19	1174.69
7	GUIDE	263065336	9.85	18099	0.097	-0.143	0.175	0.296	213.680541	24.784994	1706.74	-2403.39

## 2.4 Star Slots

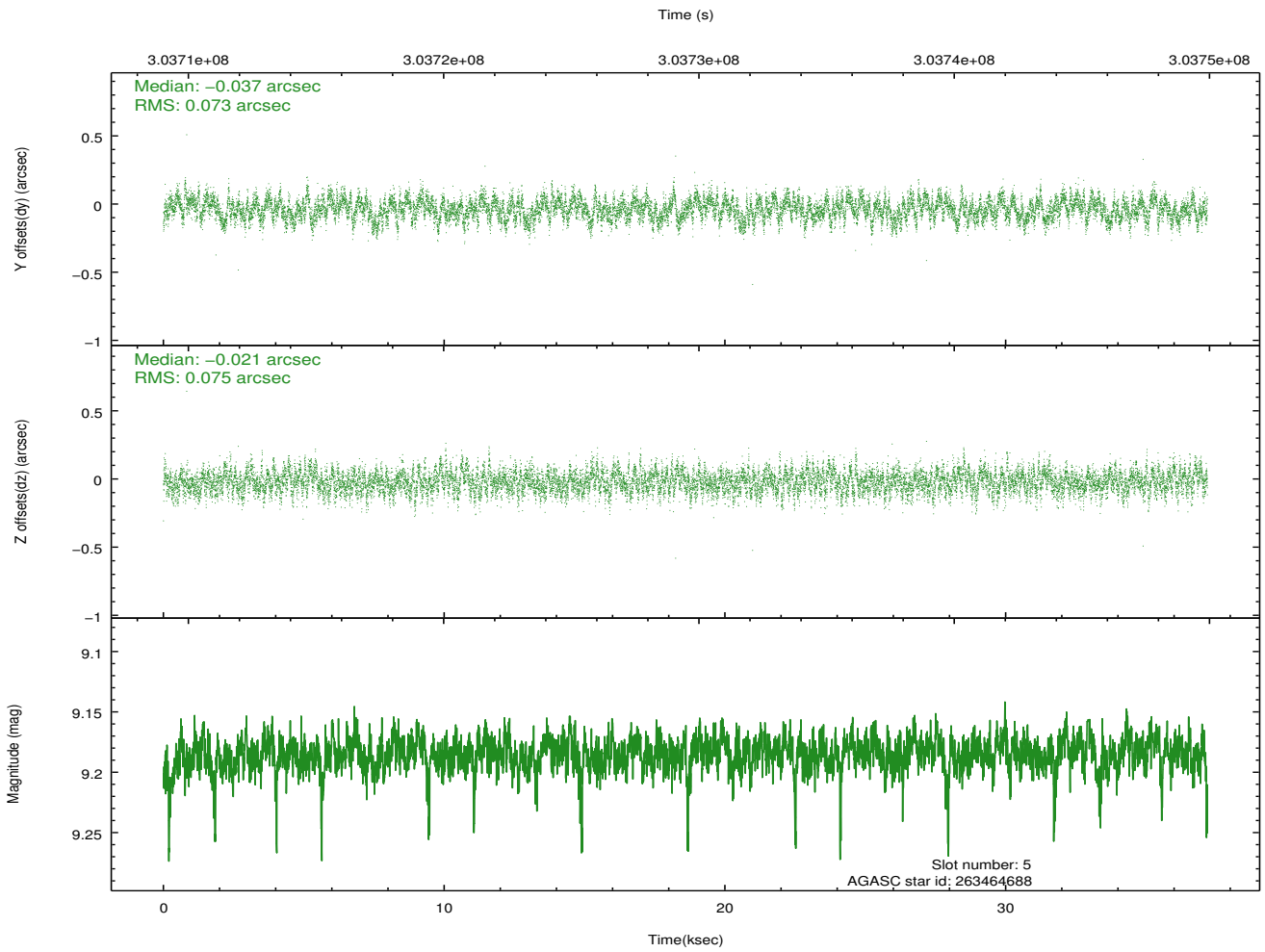
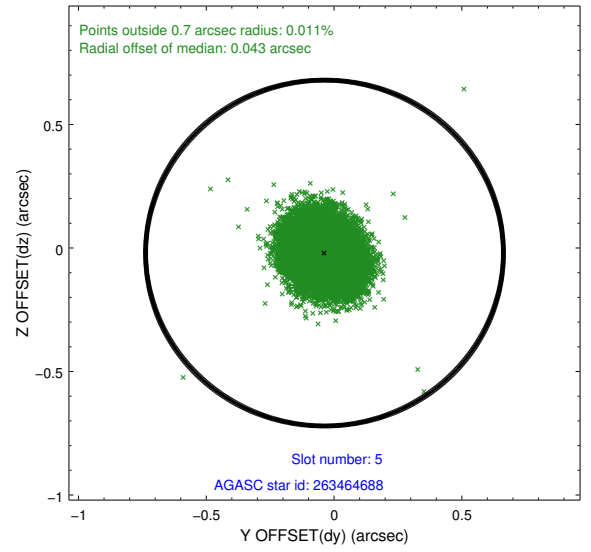
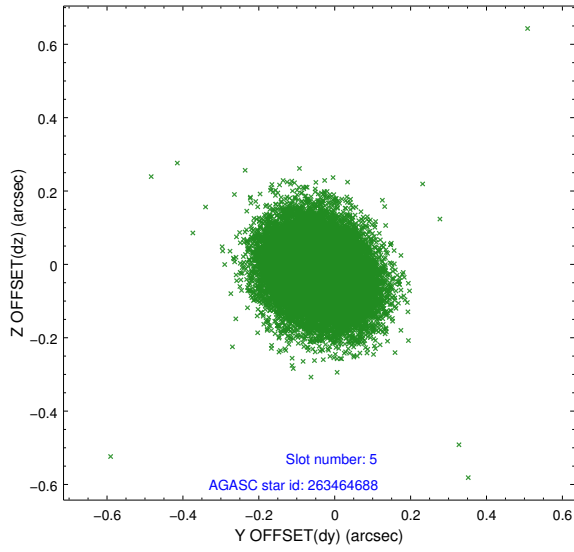
### 2.4.1 Slot 3



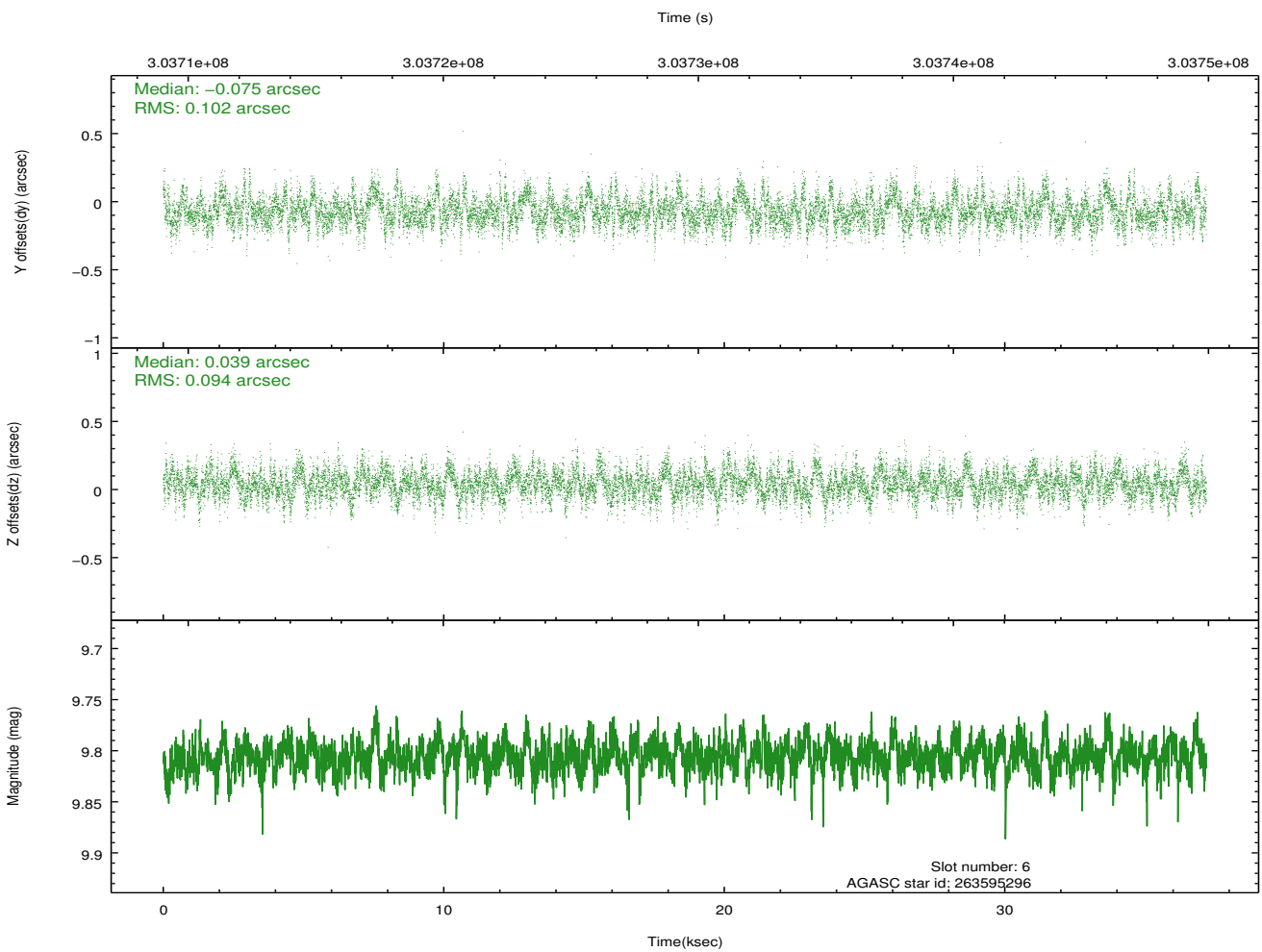
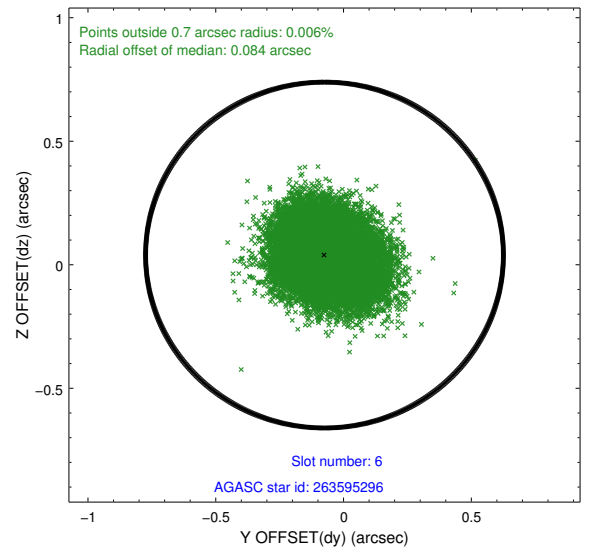
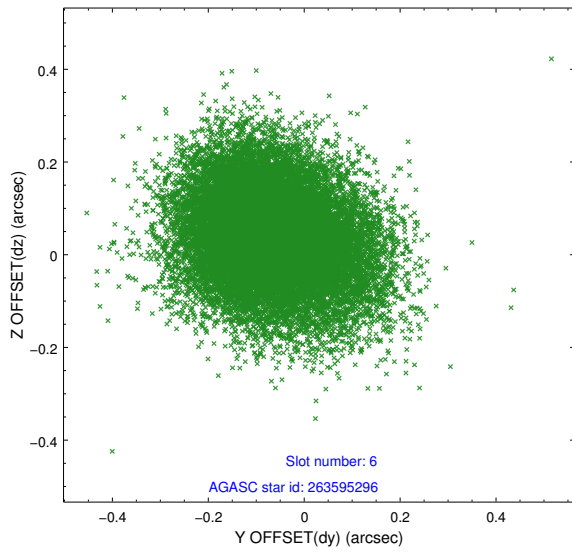
## 2.4.2 Slot 4



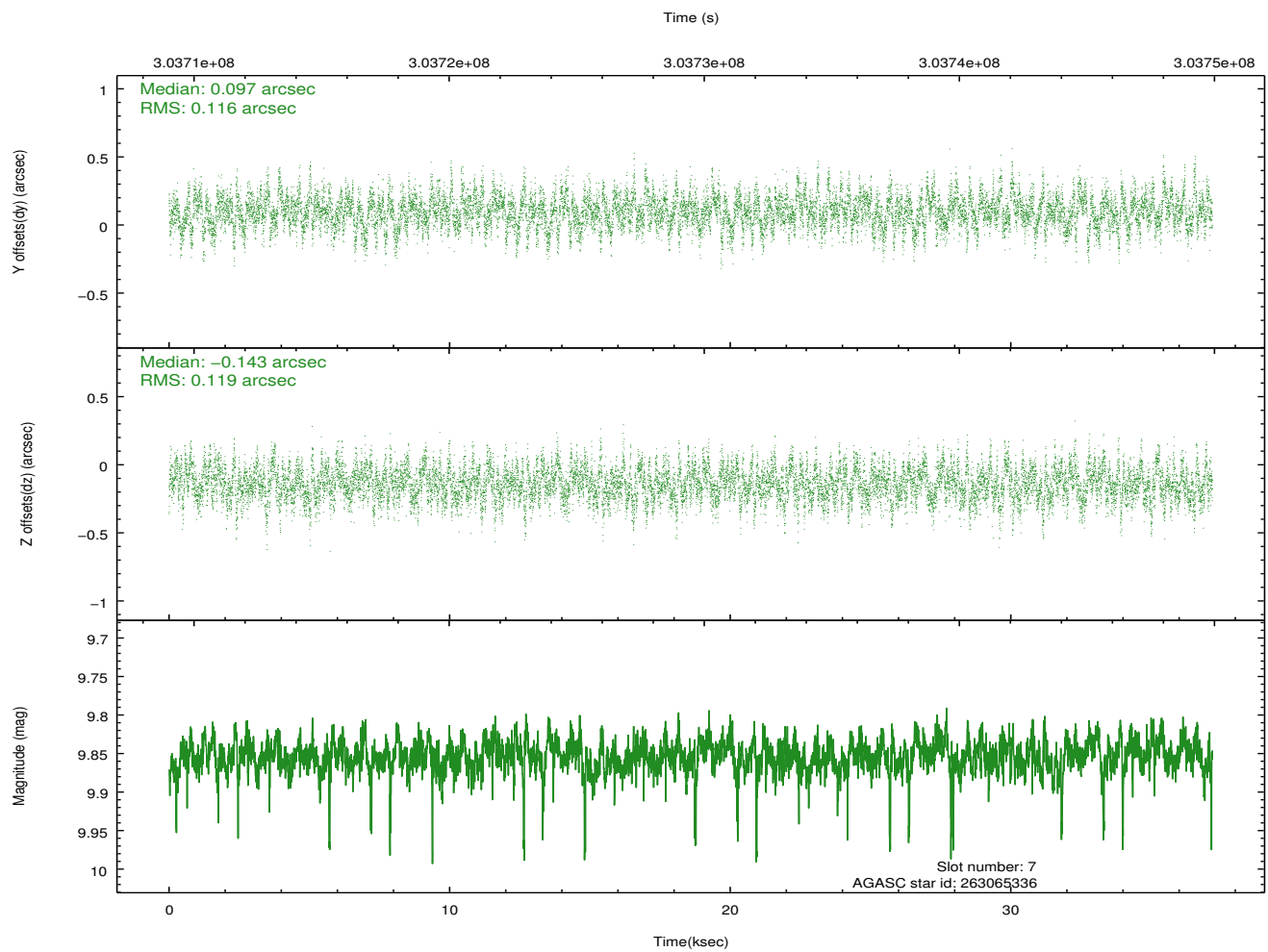
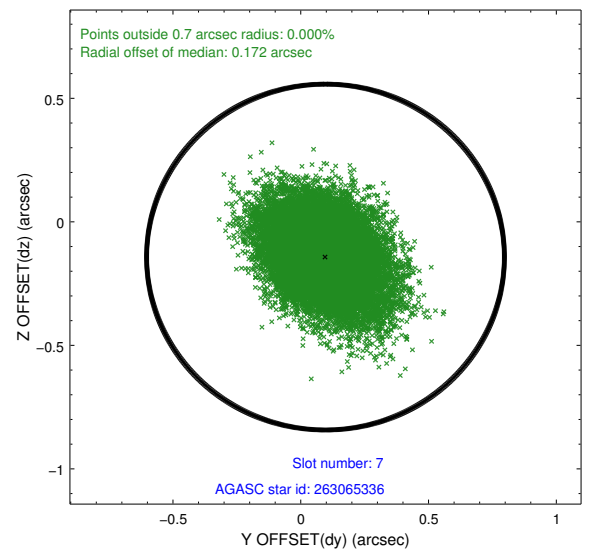
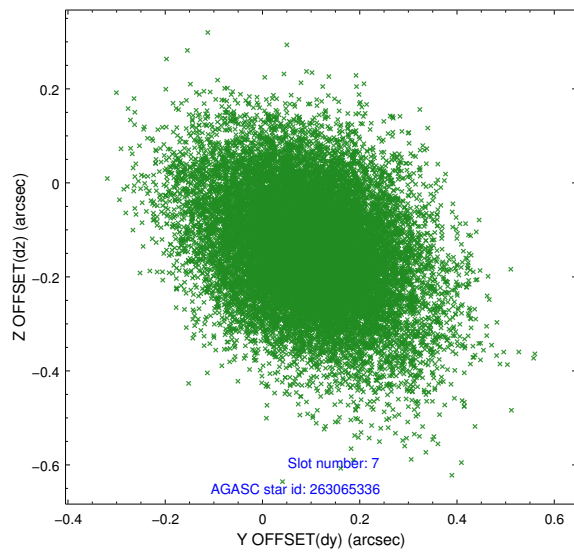
### 2.4.3 Slot 5



## 2.4.4 Slot 6

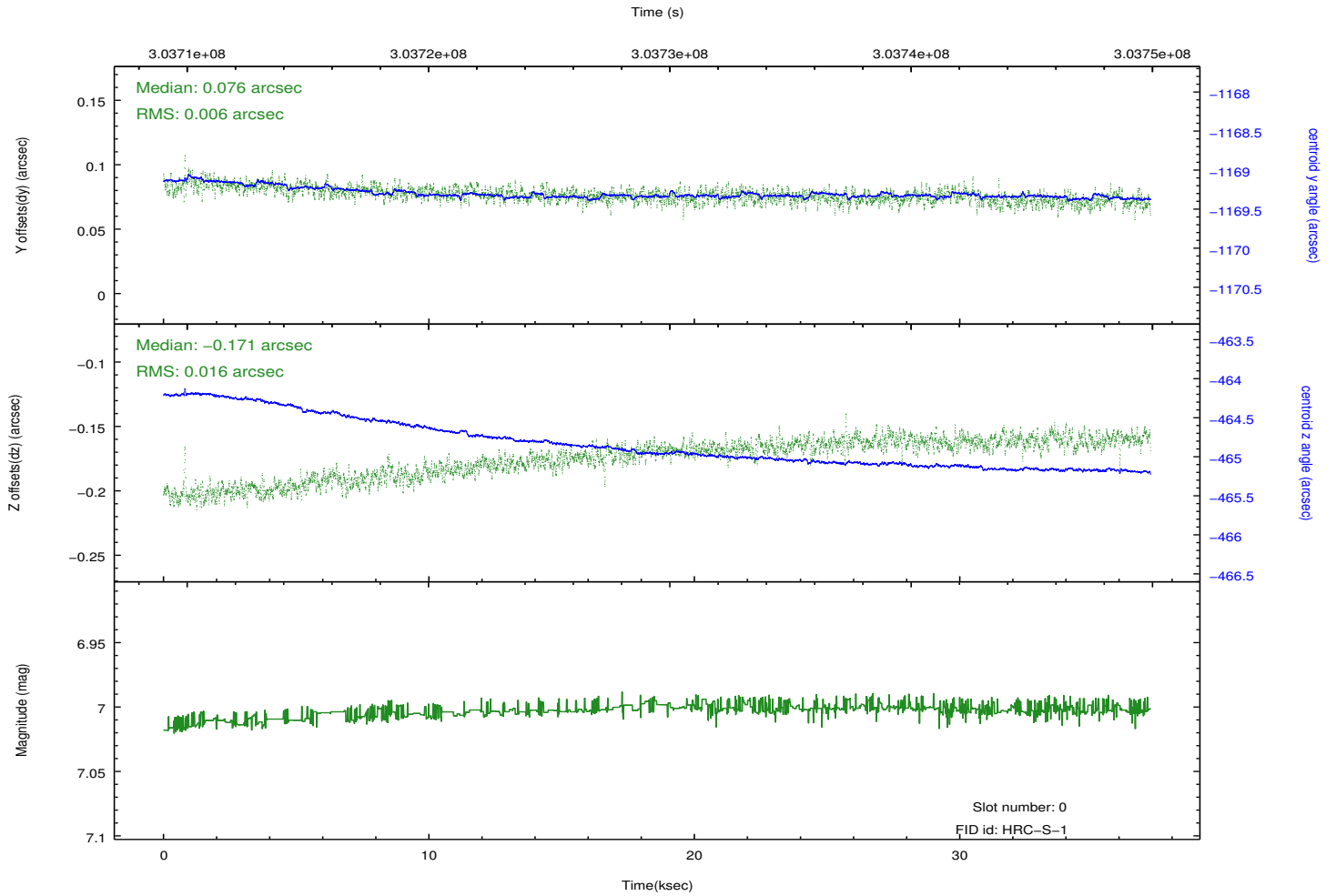
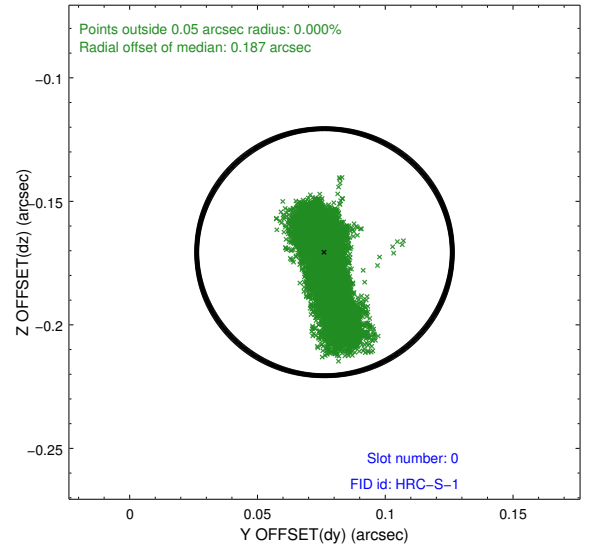
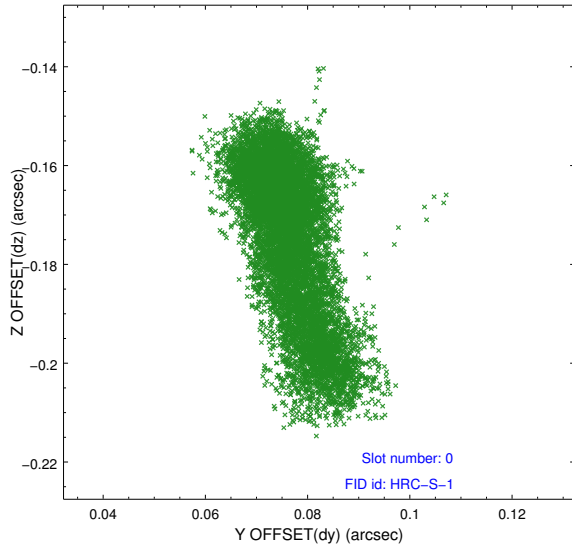


## 2.4.5 Slot 7

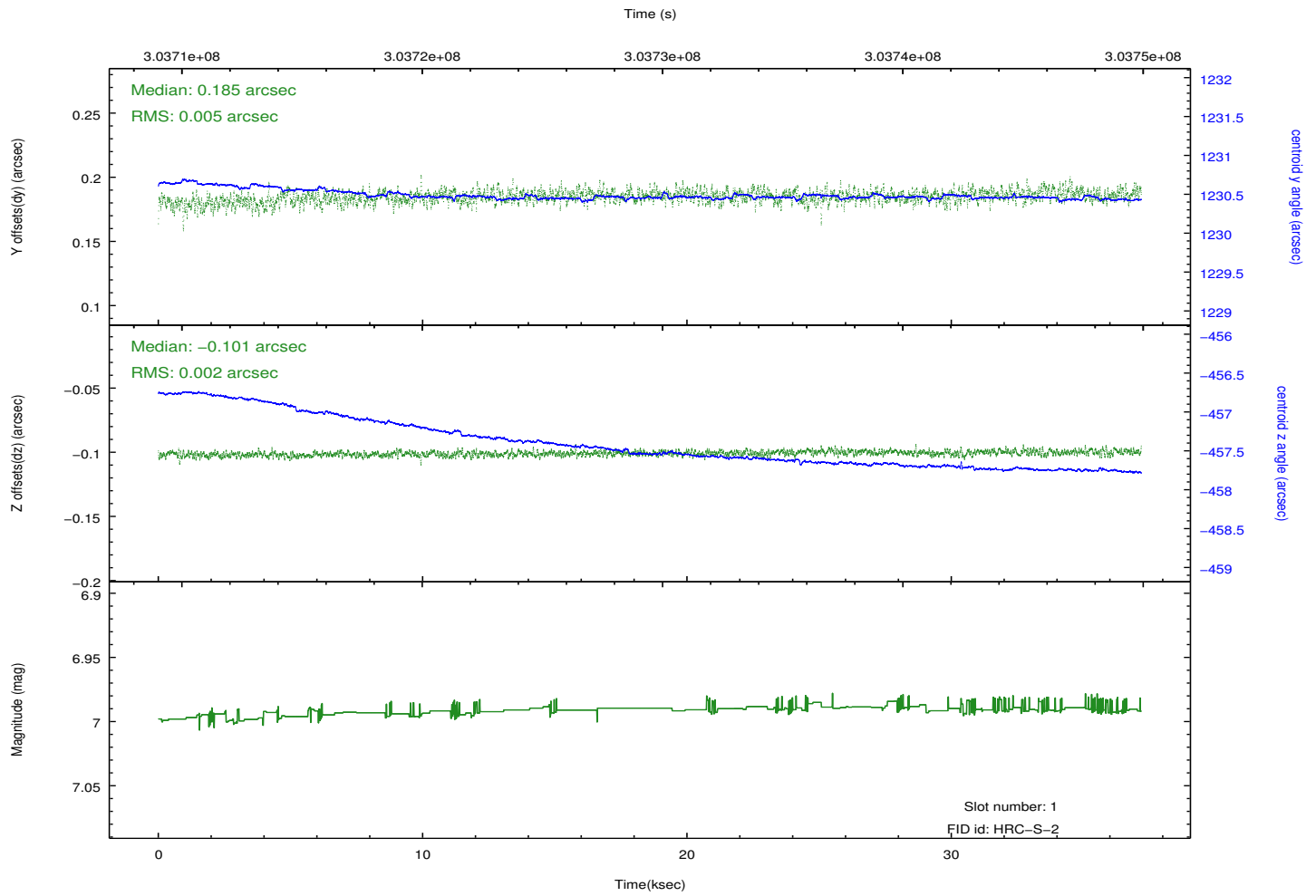
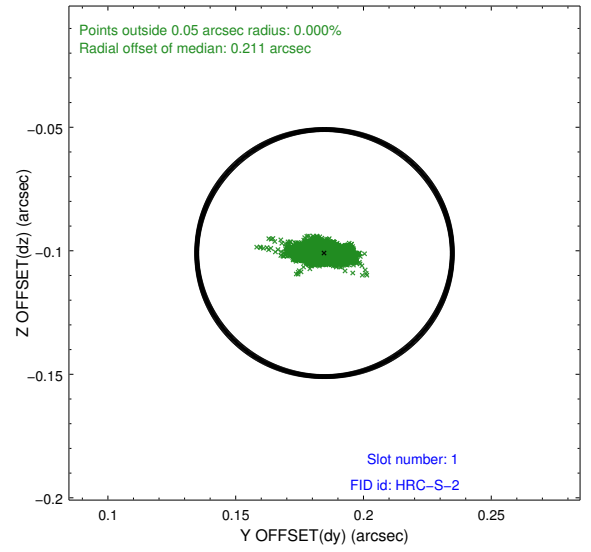
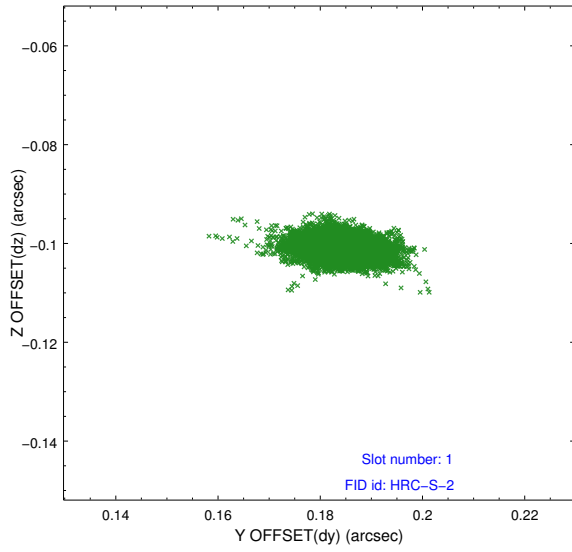


## 2.5 FID Slots

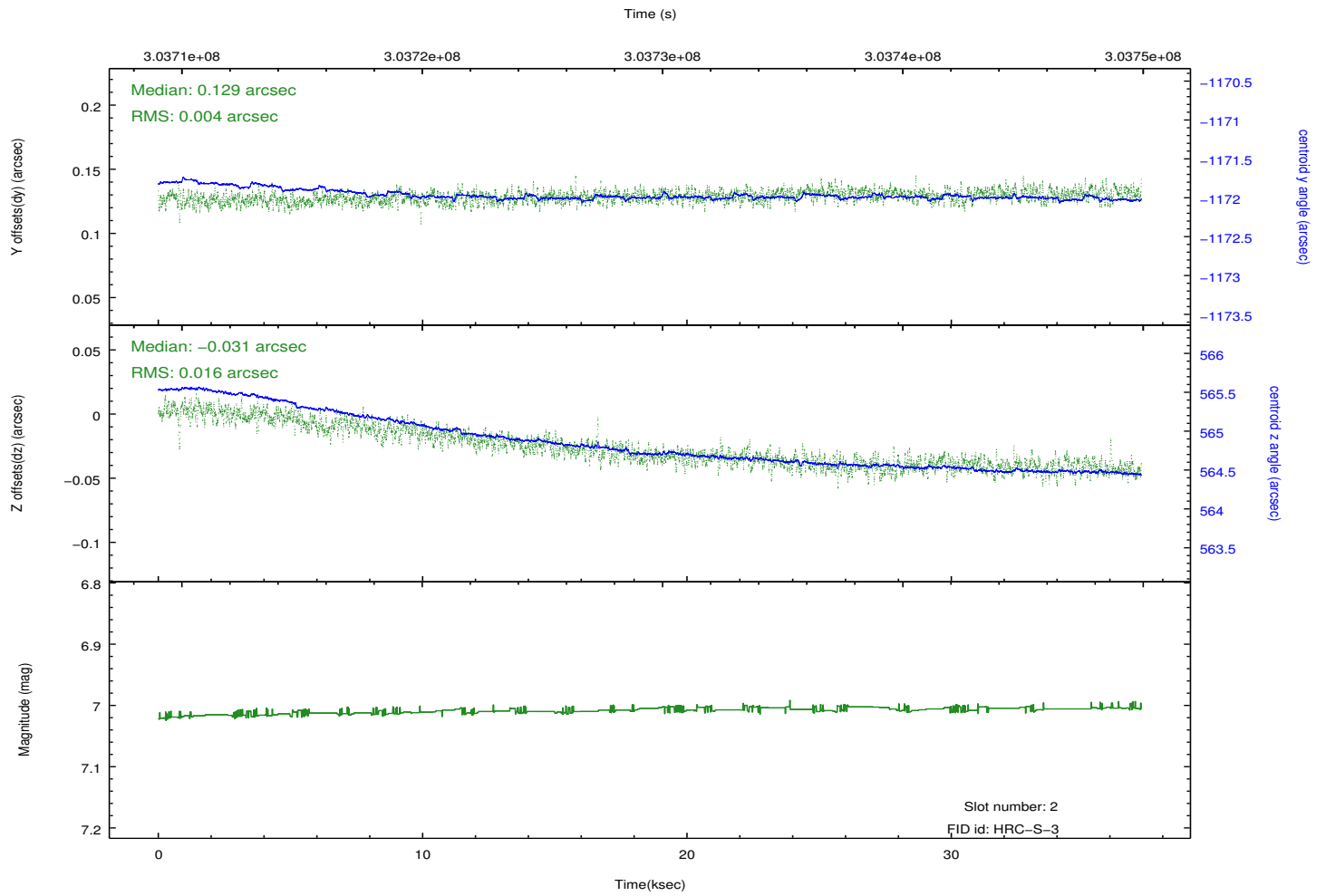
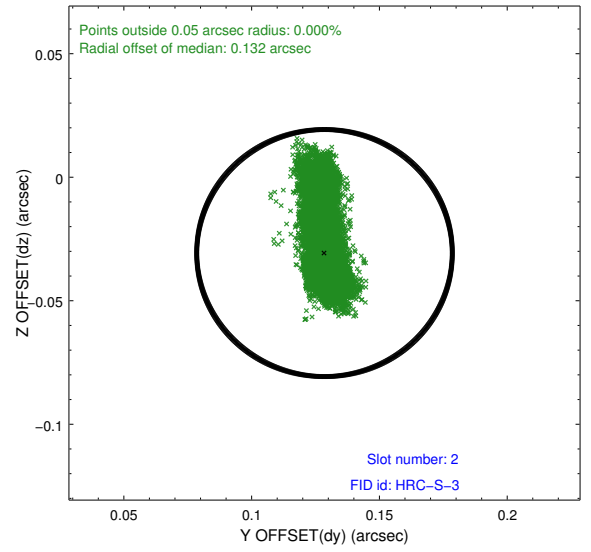
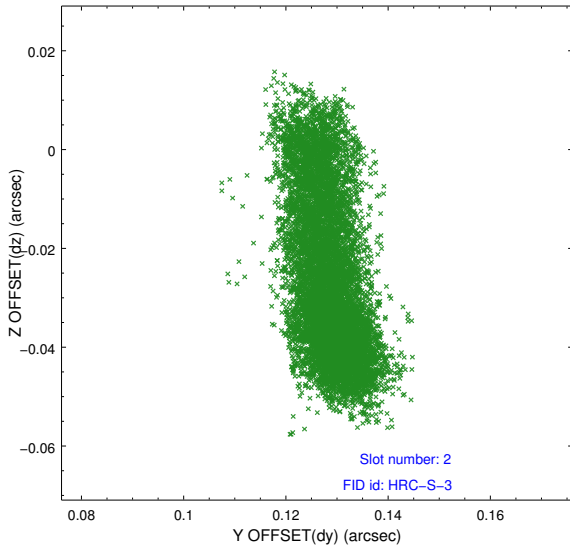
### 2.5.1 Slot 0



## 2.5.2 Slot 1

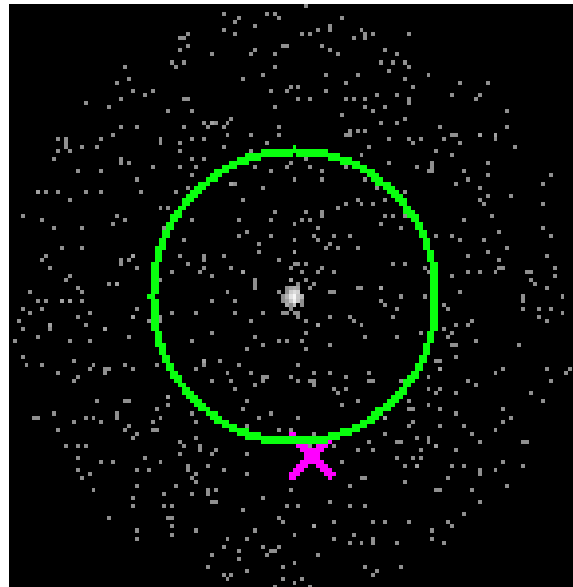


### 2.5.3 Slot 2

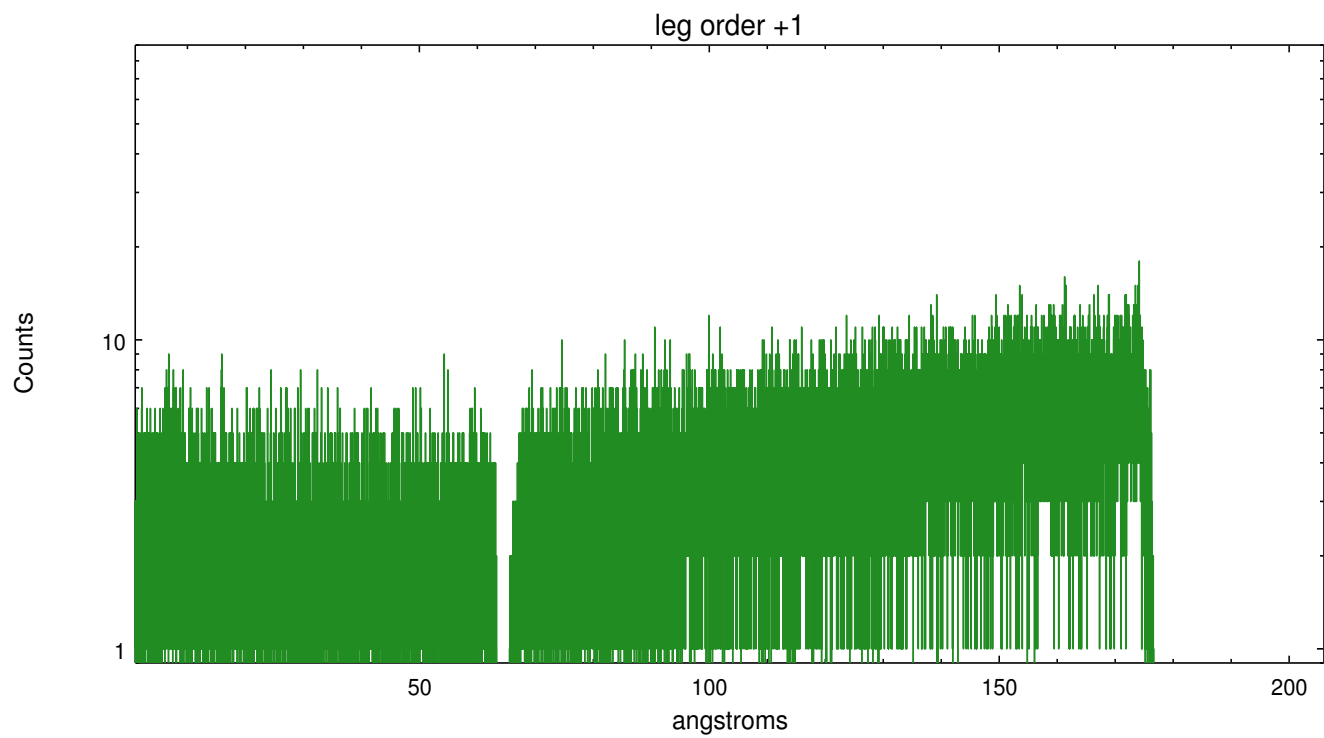
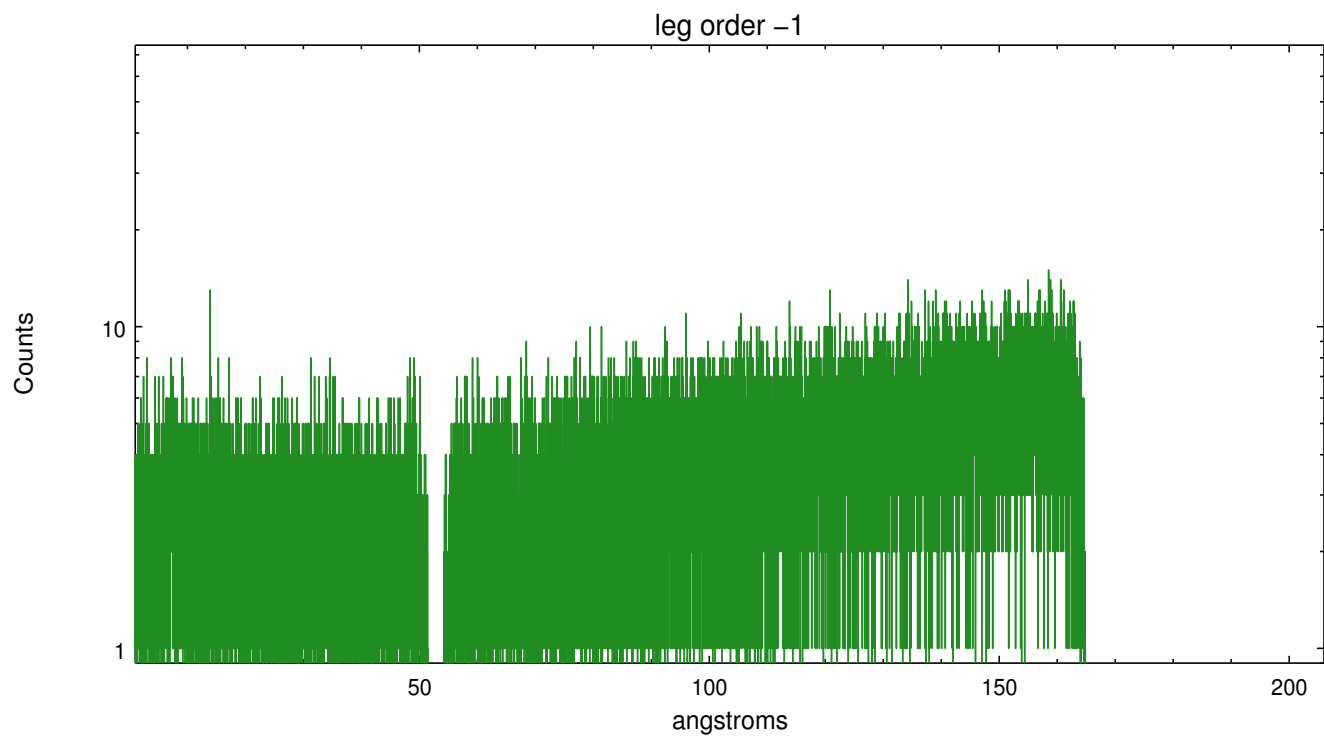


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.184183

## A.2 Comments