

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 712 - L2 Version 5  
Chandra X-Ray Center

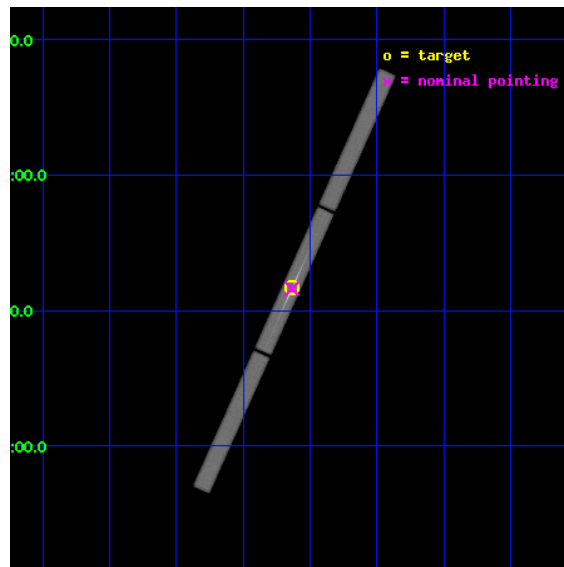
L2 Processing Date : Sep 3 2012

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# 1 Front

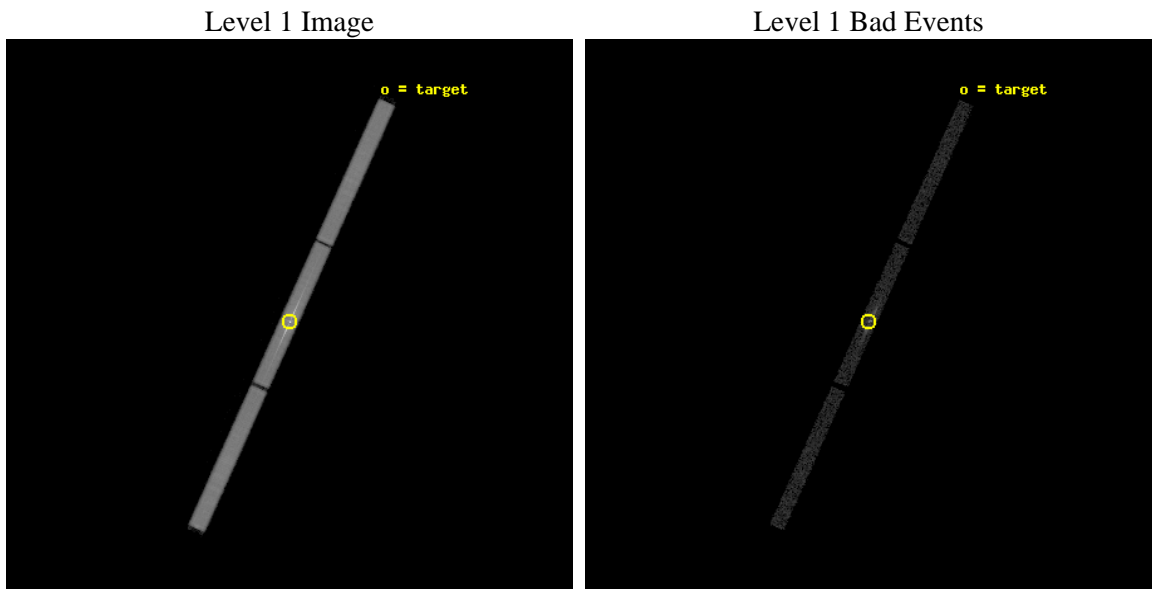
seq_num	400079	Sequence number
obs_id	712	Observation id
title	TEMPORAL EVOLUTION OF TRANSIENT TYPE I BURSTERS IN QUIESCENCE	Prop
observer	PROF. LARS BILDSTEN	Principal investigator
object	AQL X-1	Source name
ra_targ	287.816667	Observer's specified target RA [deg]
dec_targ	0.585111	Observer's specified target Dec [deg]
ra_nom	287.81847200482	Nominal RA [deg]
dec_nom	0.58062999880639	Nominal Dec [deg]
roll_nom	294.25591799269	Nominal Roll [deg]
revision	5	Processing version of data
ontime	10314.83164382	[s]
livetime	10247.168498074	Ontime multiplied by DTCOR
l2events	464961	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	9320.095000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10314.83164382	[s]
caldsver	4.5.1.1	&#160	l1events	666642	Number of level 1 events
date	2012-09-03T16:44:08	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

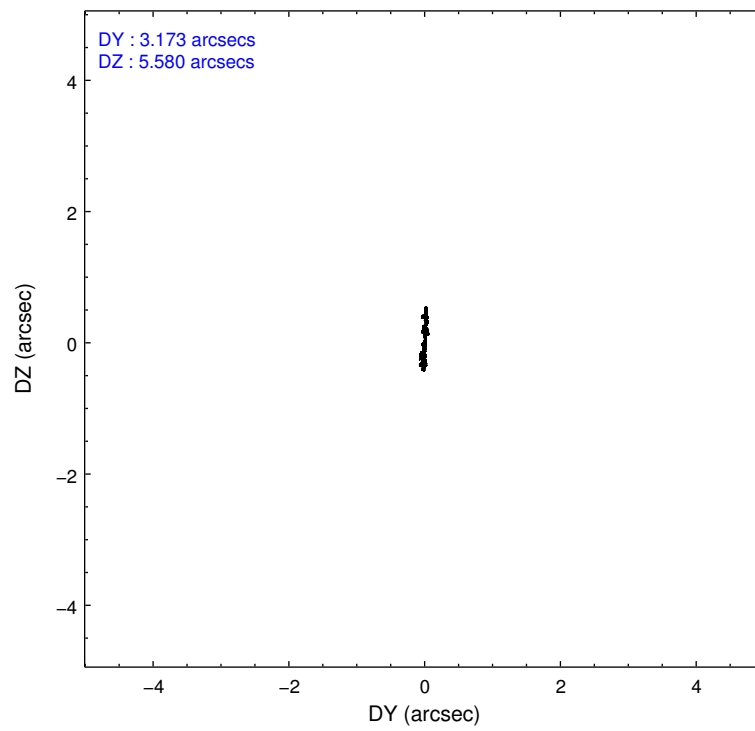
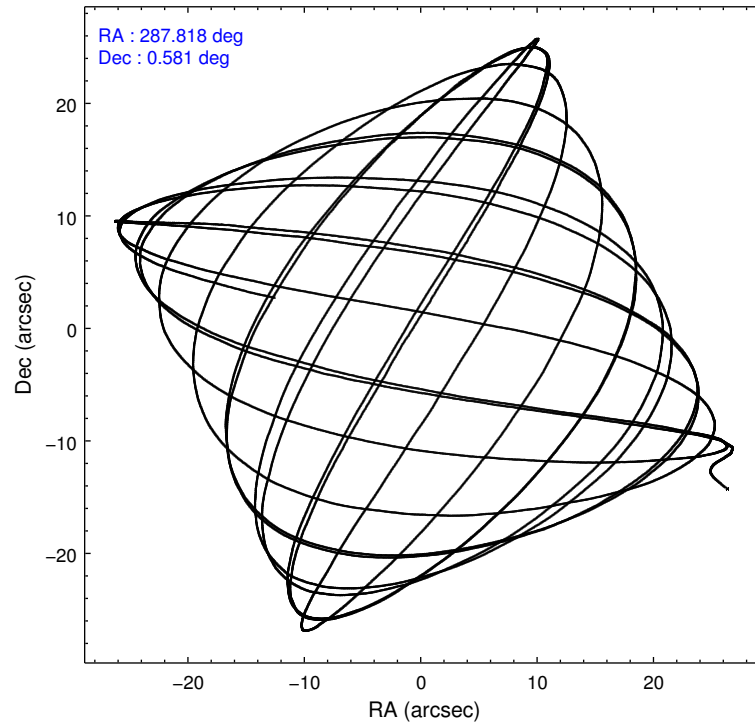
Level 1 Events

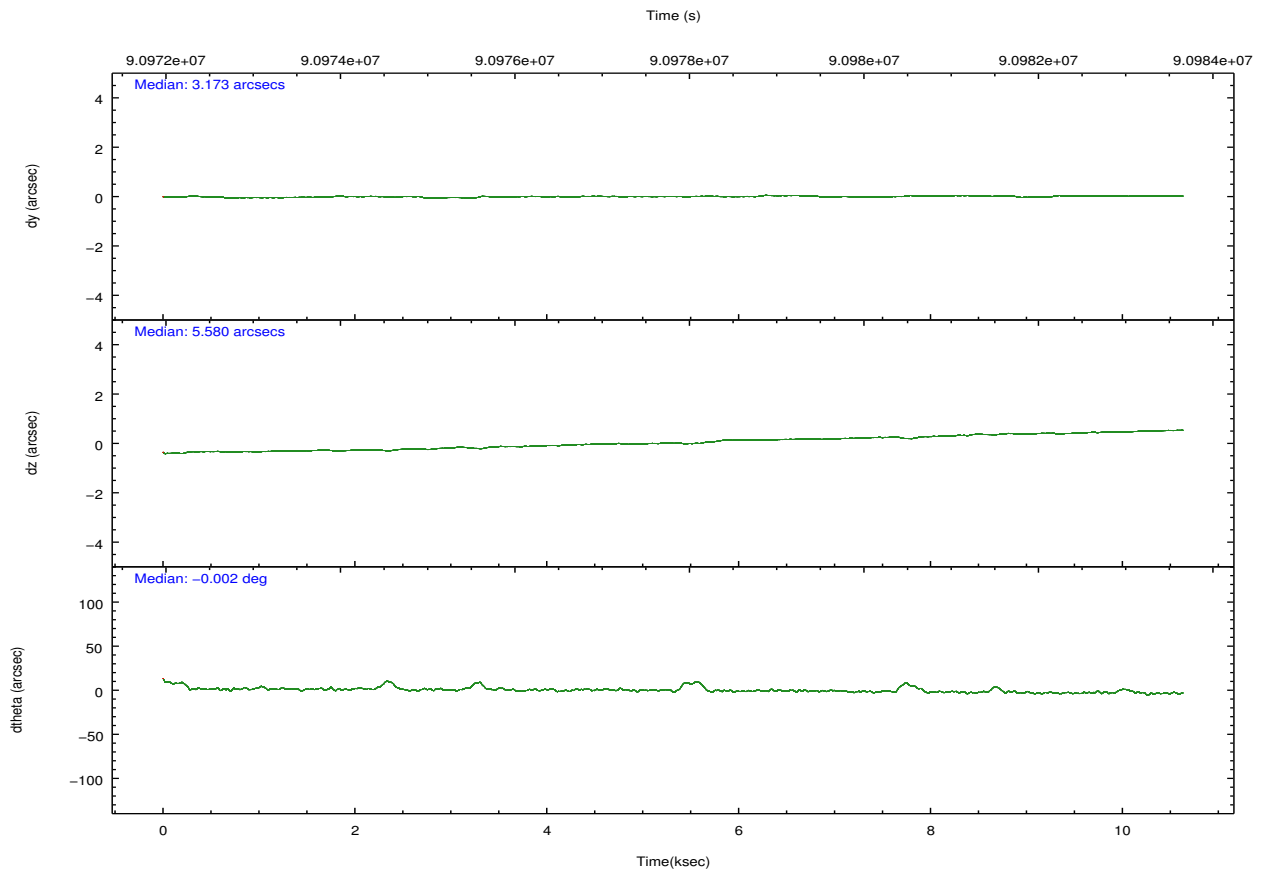
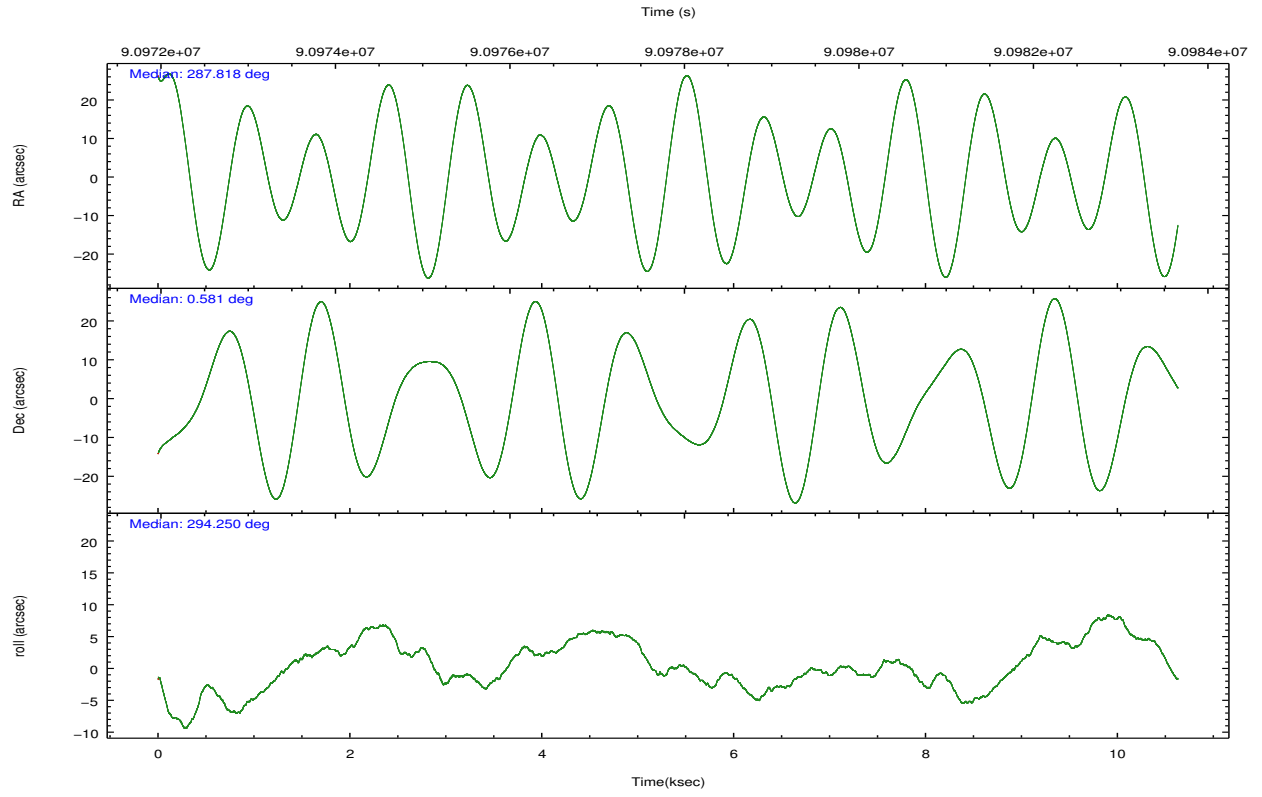
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	206806	252219	207617
rejected events	6597	8258	6783
rejected %	3%	3%	3%

## 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	287.794454	287.8184720048208			
[deg] Pointing Dec	0.596324	0.5806299988063922			
[deg] Pointing Roll	294.188817	294.2559179926878			
[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)	90972643.184000	90971433.508956			
Observation start date	2000-11-18T22:09:39	2000-11-18T21:50:33			
[s] Observation end time (MET)	90981964.184000	90983949.78443301			
Observation end date	2000-11-19T00:45:00	2000-11-19T01:19:09			

## 2.3 Aspect



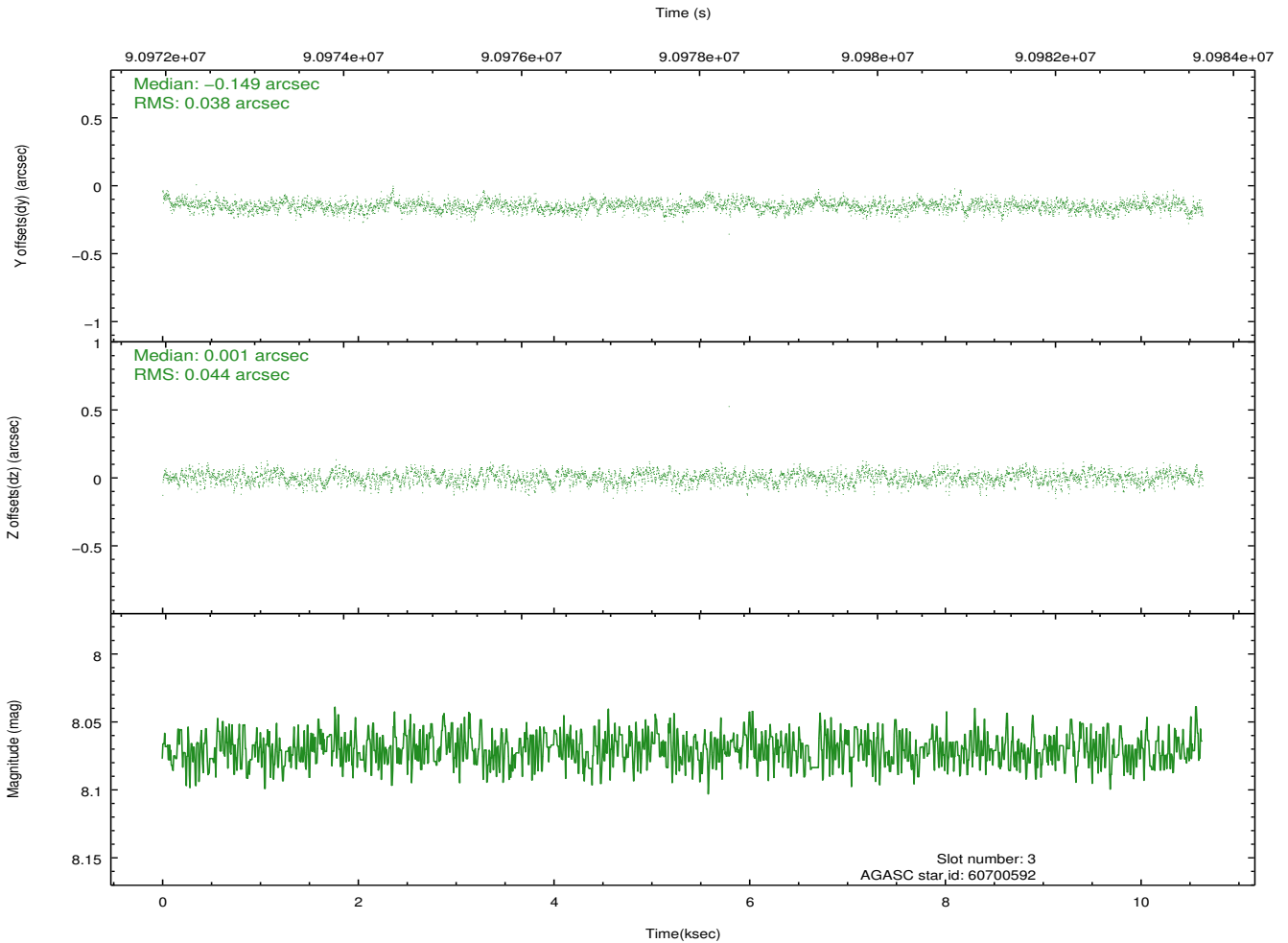
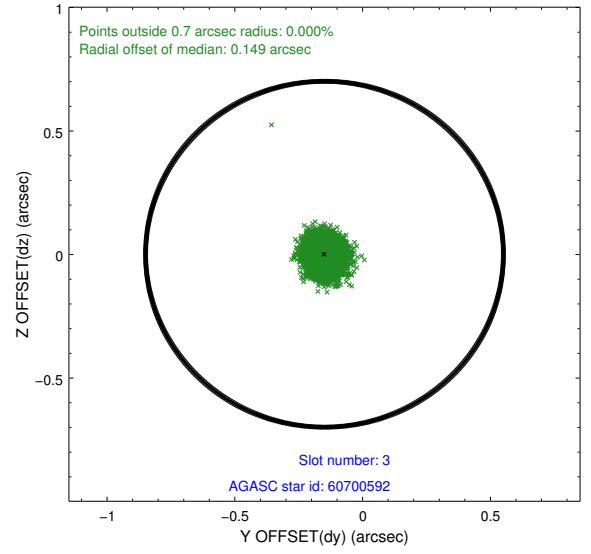
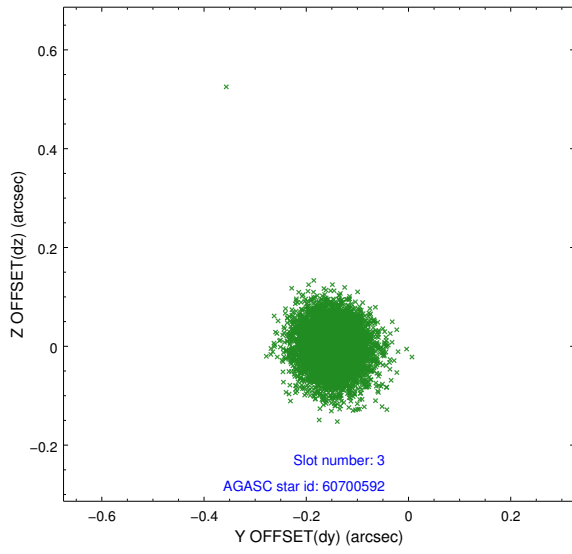


### Slot Statistics

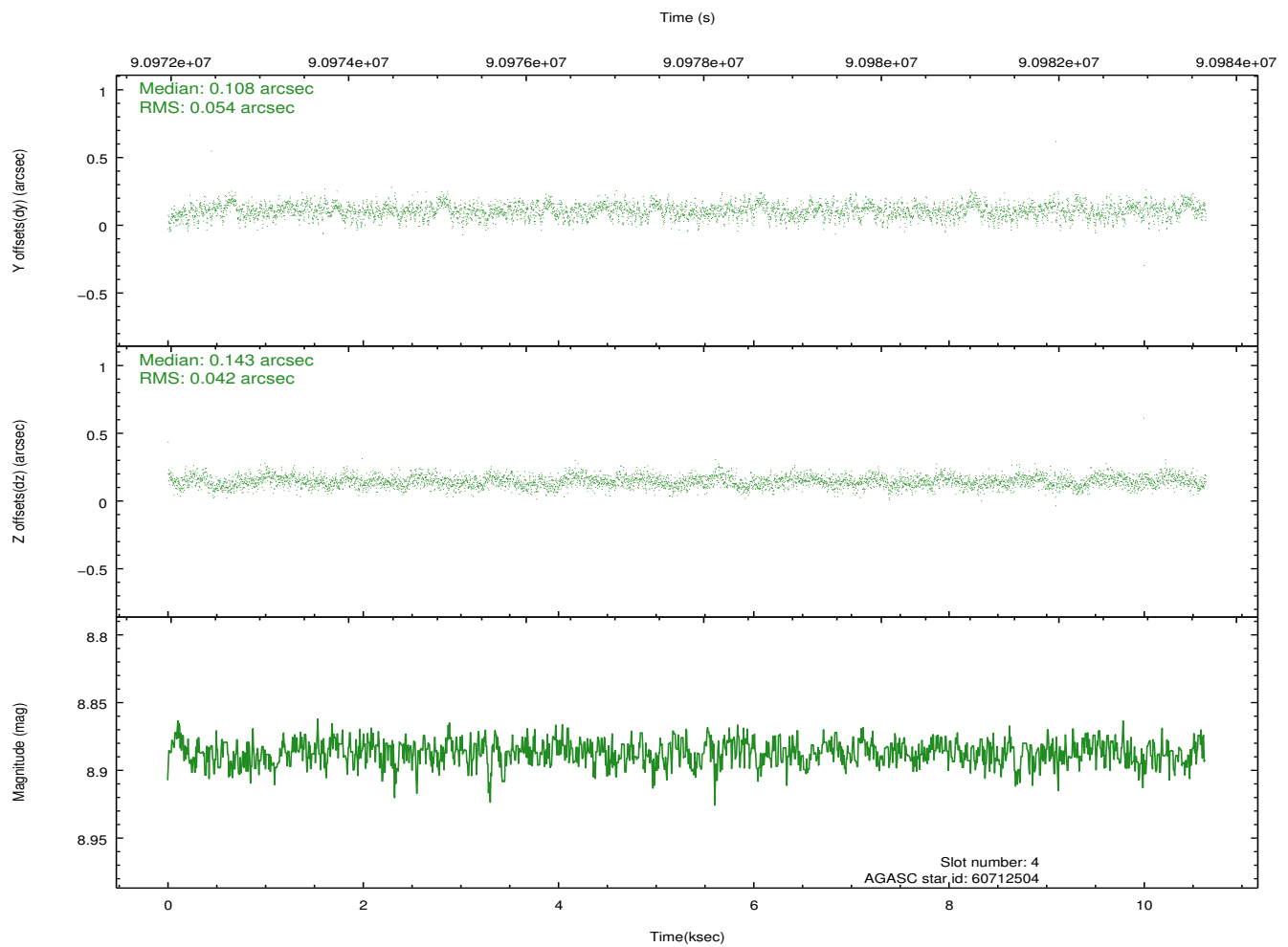
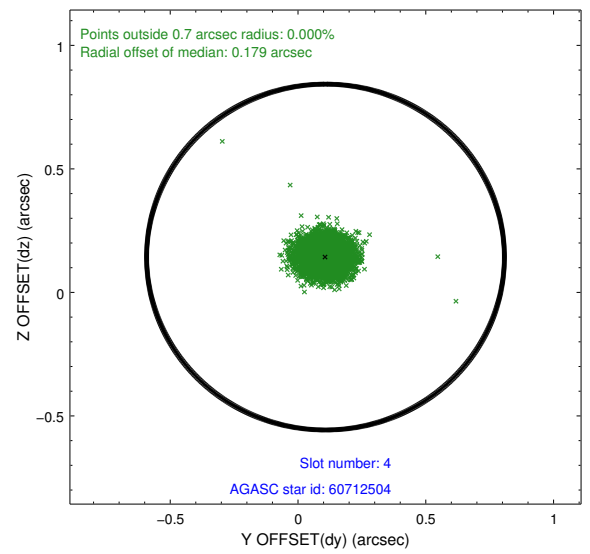
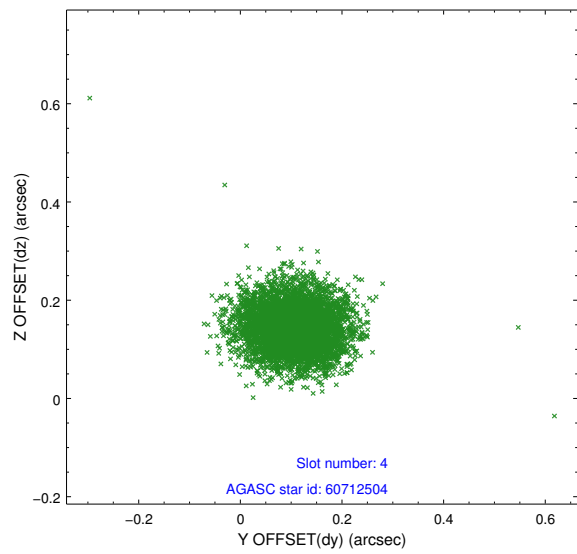
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-2	6.95	2593	0.118	-0.145	0.014	0.023	0.000000	0.000000	1242.43	-446.82
1	FID	HRC-S-3	6.98	2593	0.170	-0.105	0.008	0.022	0.000000	0.000000	-1159.41	575.27
2	FID	HRC-S-4	6.91	2593	0.117	-0.045	0.016	0.029	0.000000	0.000000	1240.58	578.23
3	GUIDE	60700592	8.07	5185	-0.149	0.001	0.062	0.097	287.530354	0.932002	-1492.20	-371.97
4	GUIDE	60712504	8.89	5185	0.108	0.143	0.071	0.116	288.588609	0.262689	2266.37	2116.47
5	GUIDE	60706688	8.73	5185	-0.014	0.005	0.069	0.112	287.637938	0.689635	-537.04	-375.74
6	GUIDE	60705928	9.01	5185	0.011	-0.055	0.075	0.124	287.833535	0.715711	-334.75	304.48
7	GUIDE	672281216	9.32	5181	0.045	-0.091	0.087	0.144	287.454836	-0.067927	1680.42	-2094.80

## 2.4 Star Slots

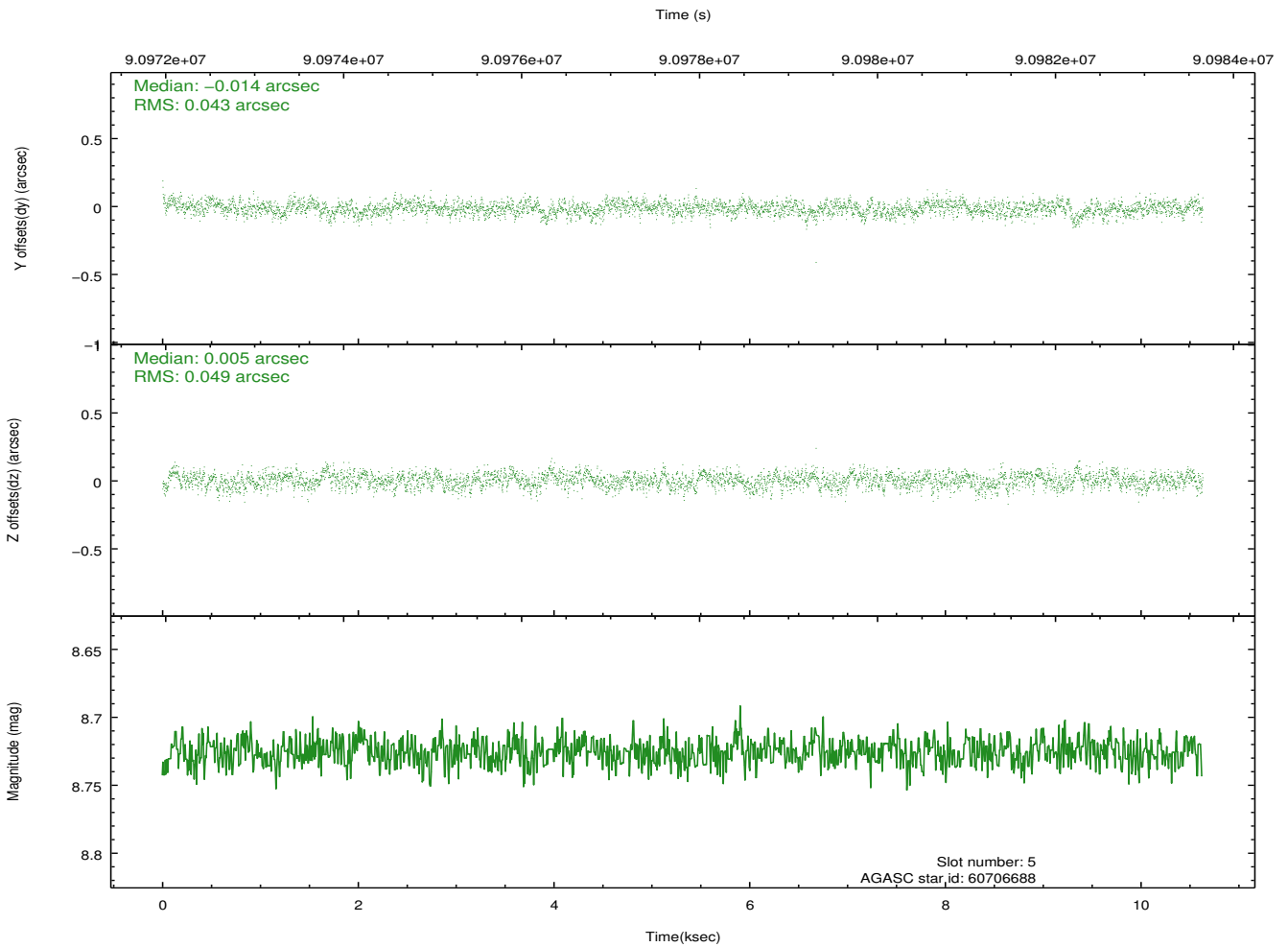
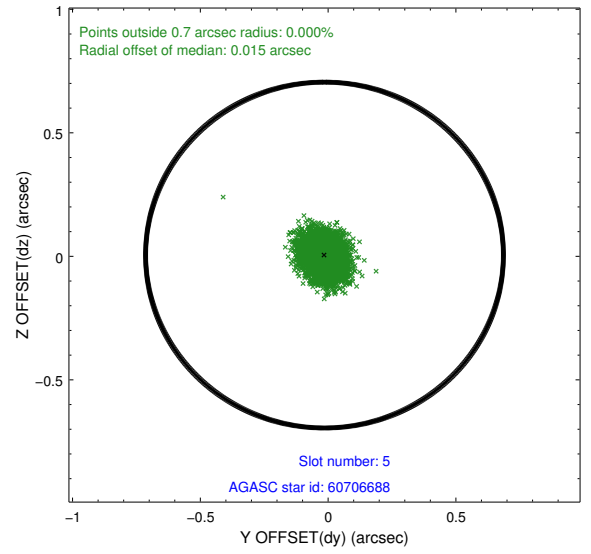
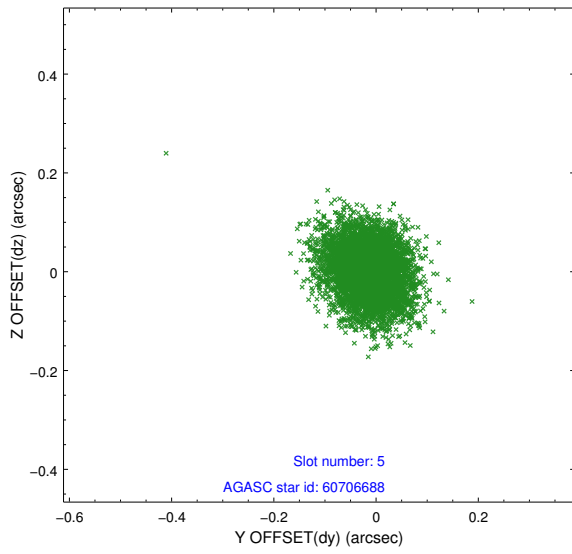
### 2.4.1 Slot 3



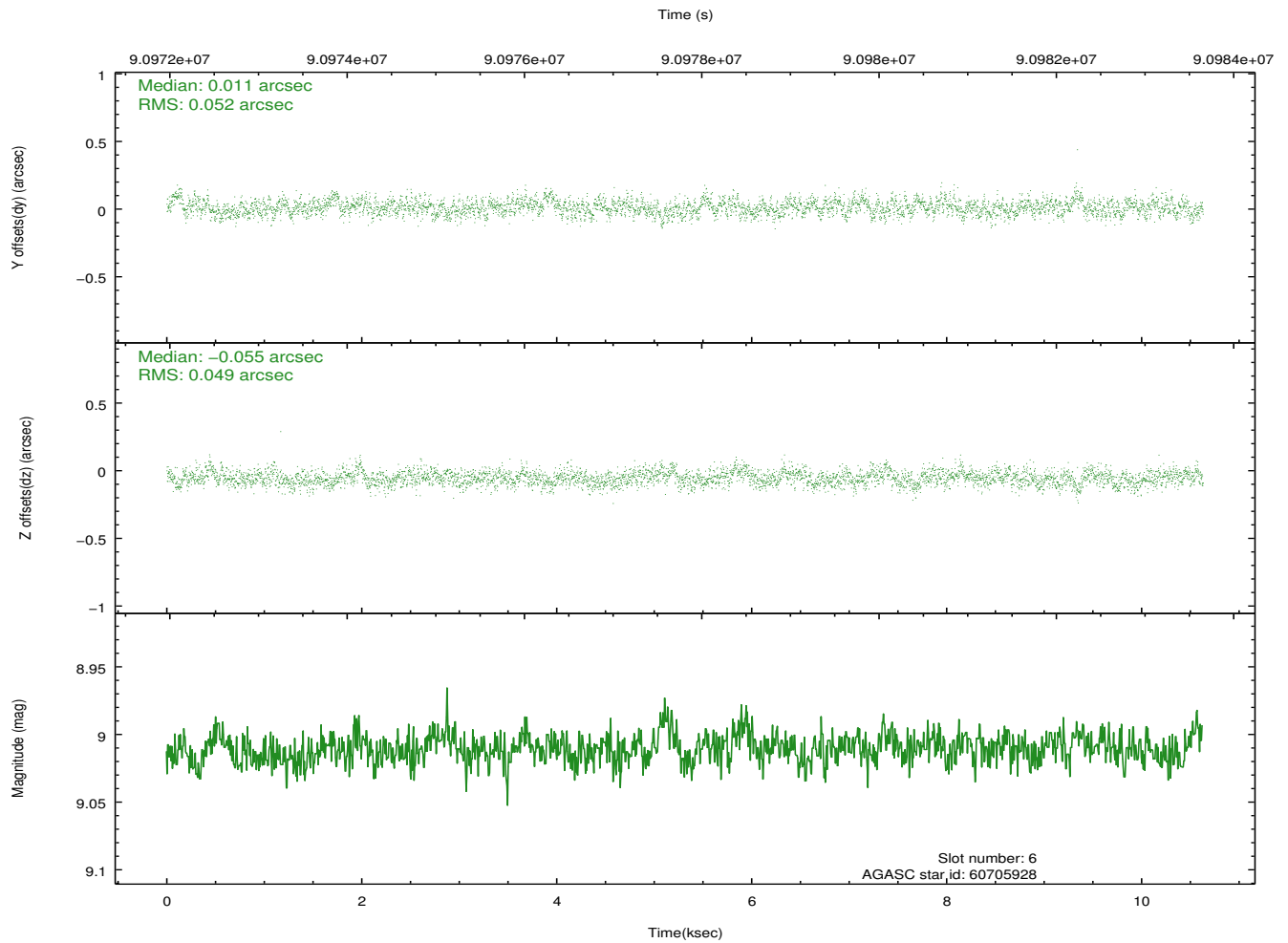
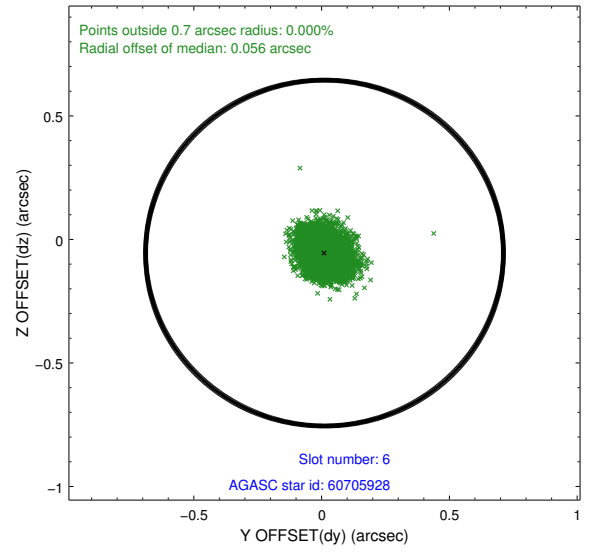
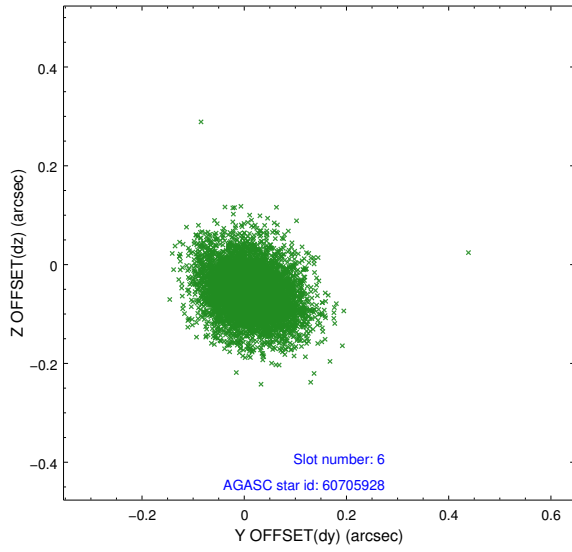
## 2.4.2 Slot 4



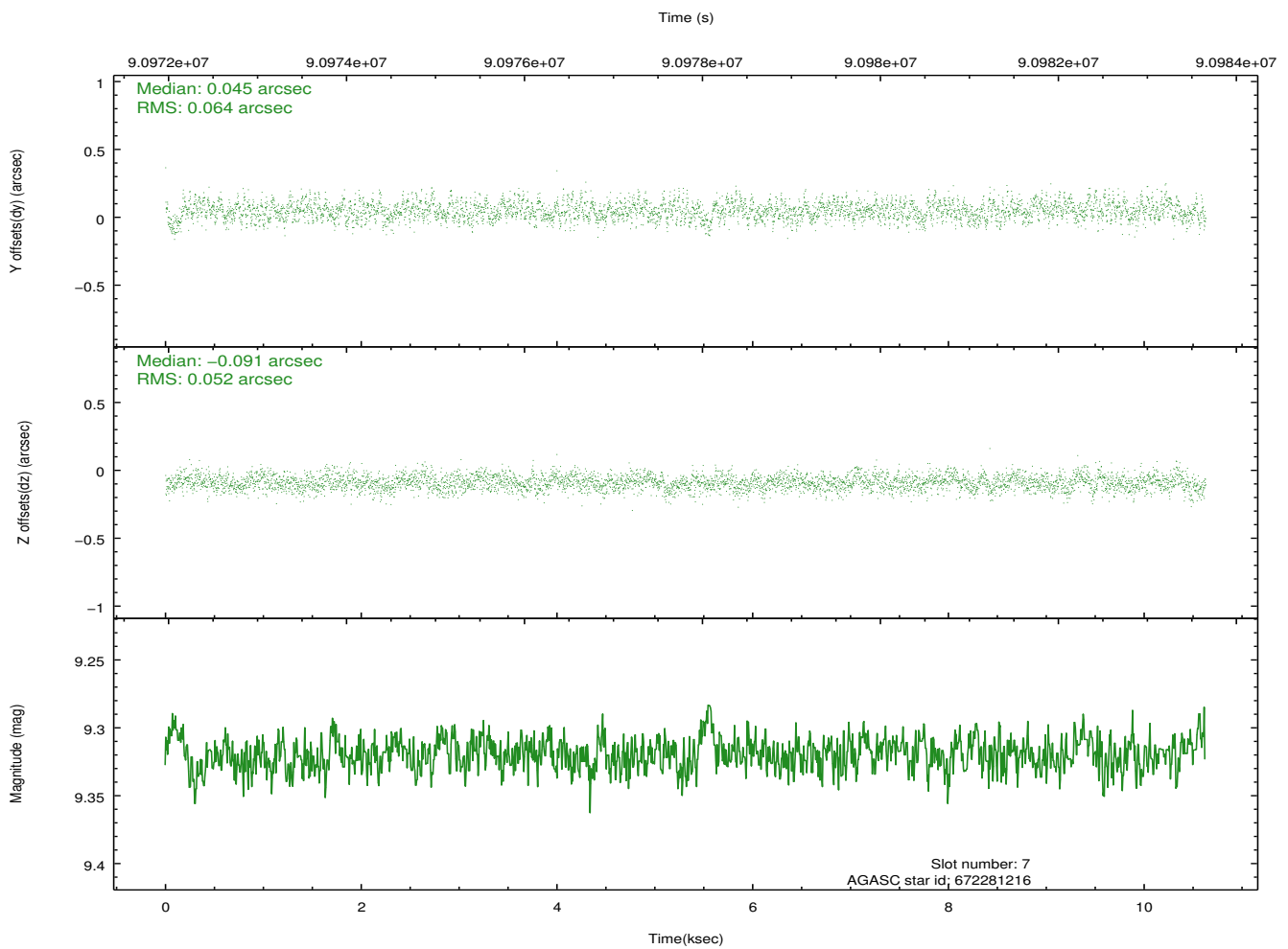
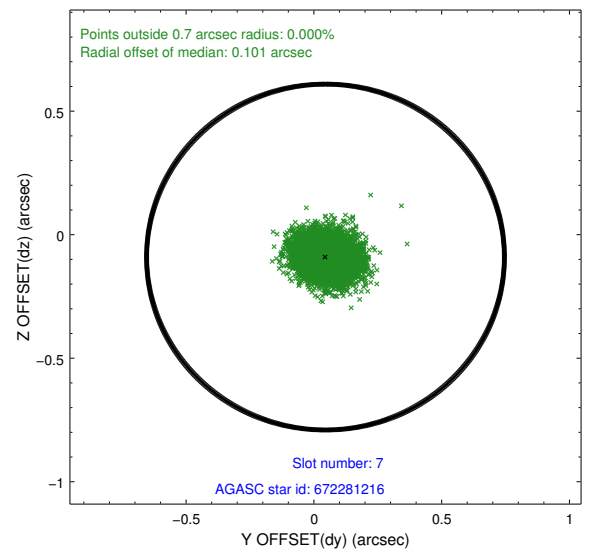
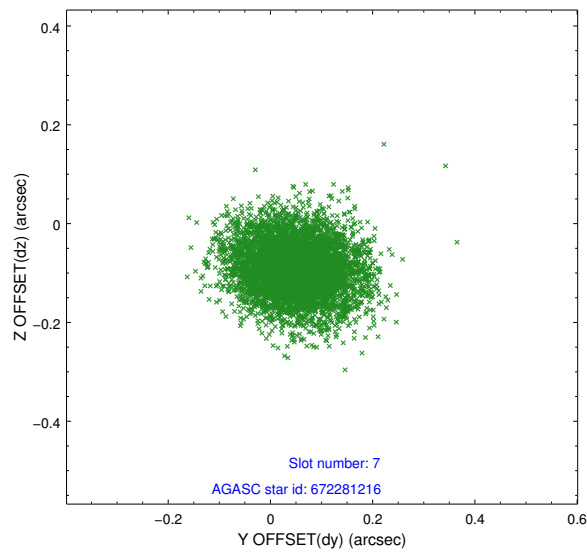
### 2.4.3 Slot 5



## 2.4.4 Slot 6

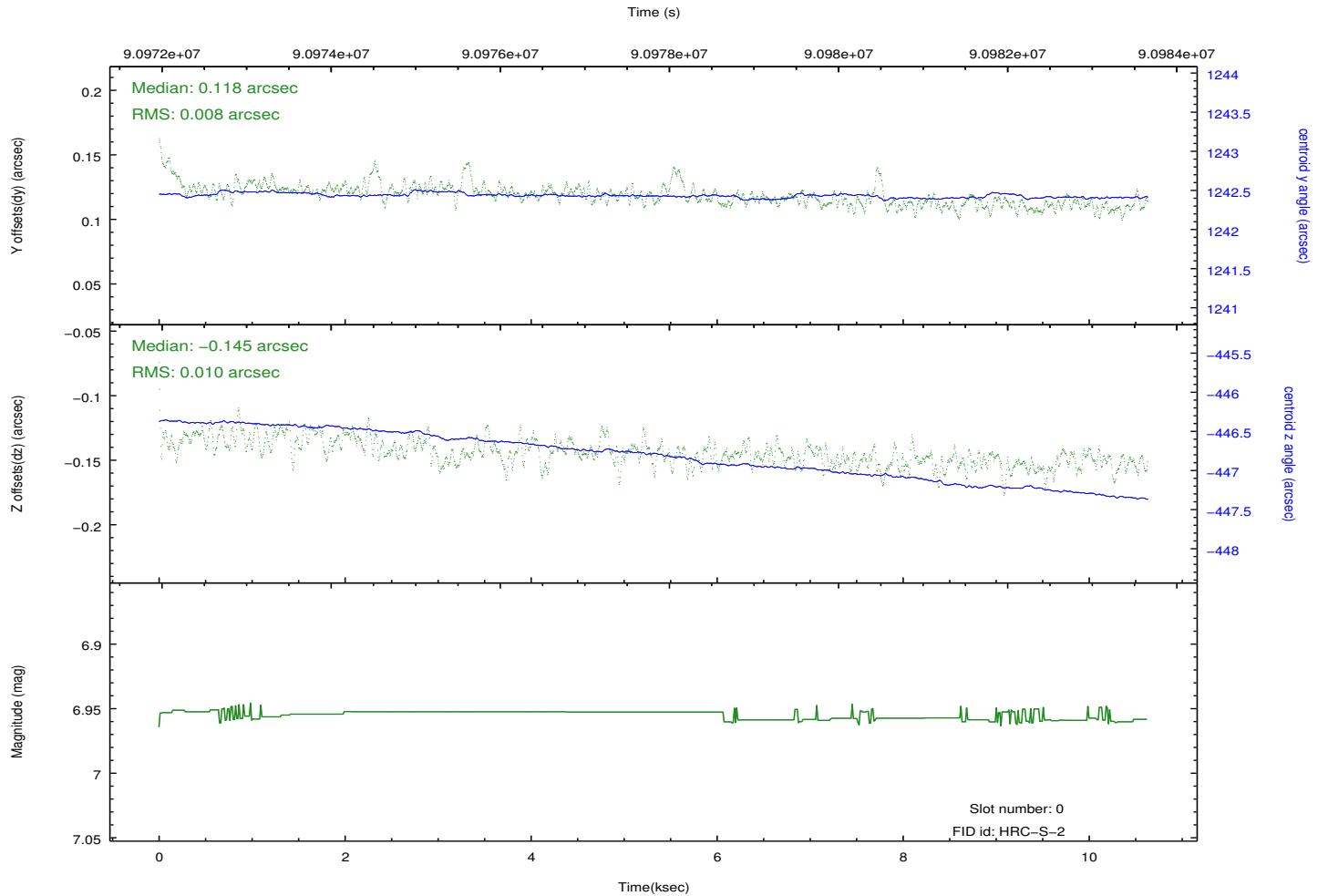
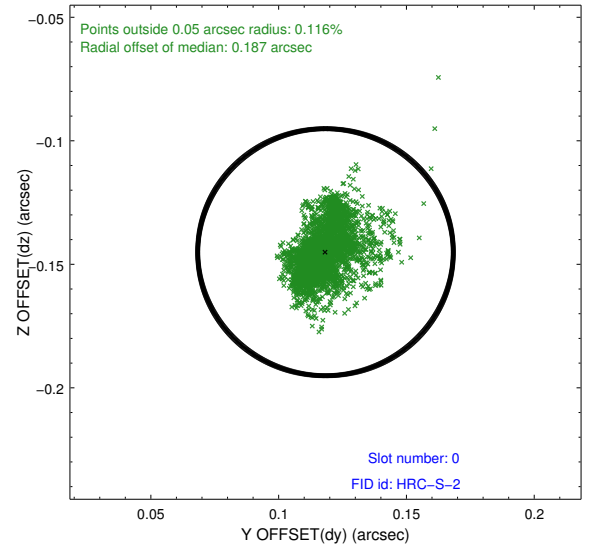
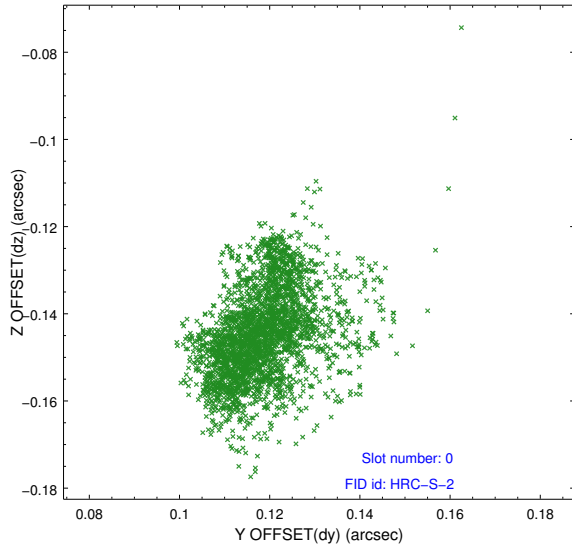


## 2.4.5 Slot 7

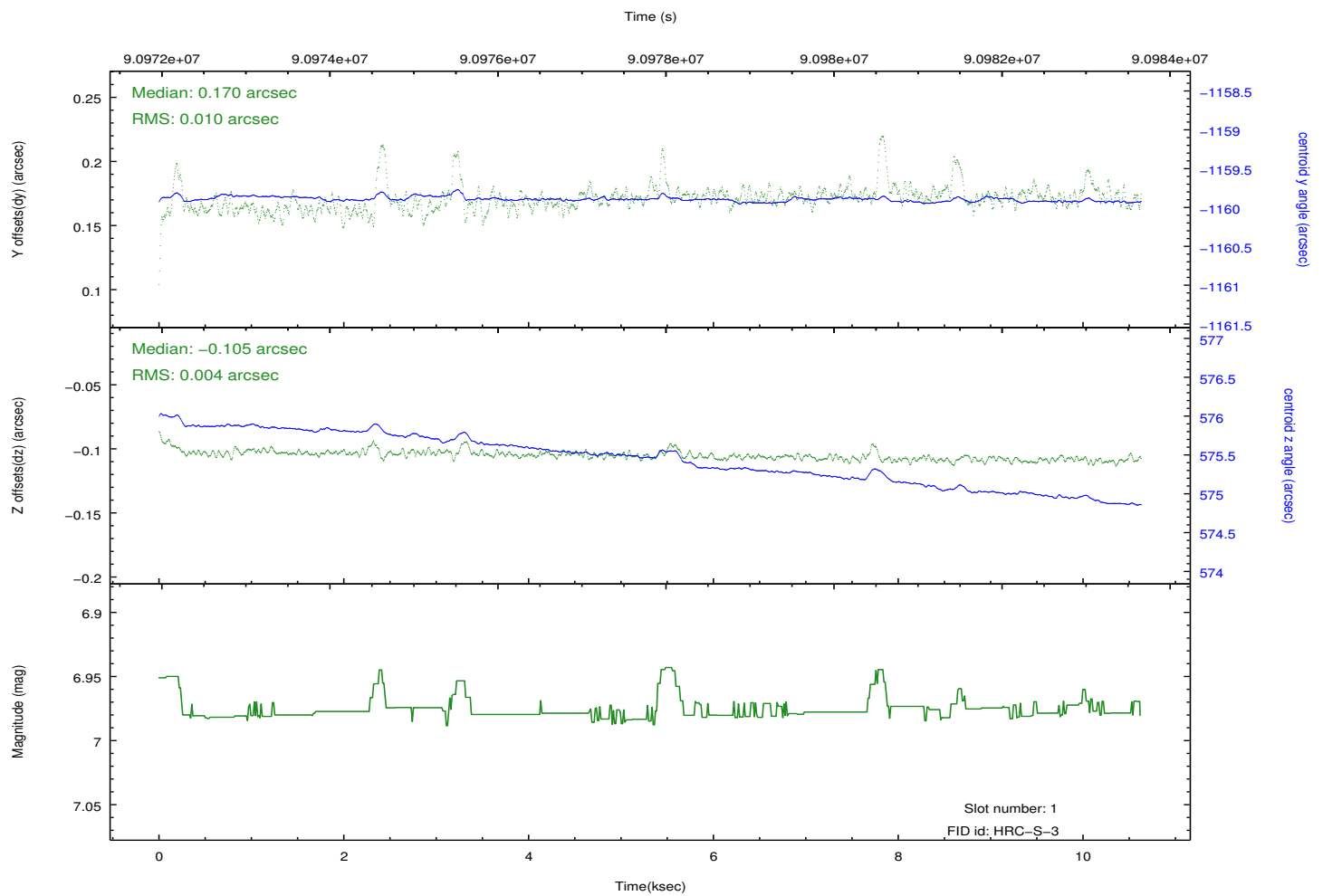
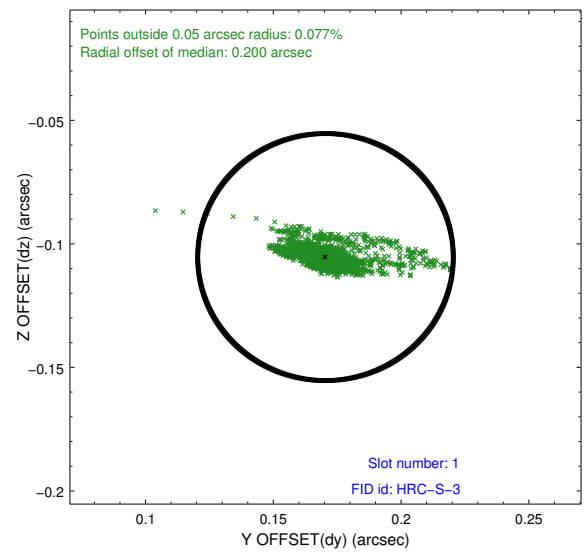
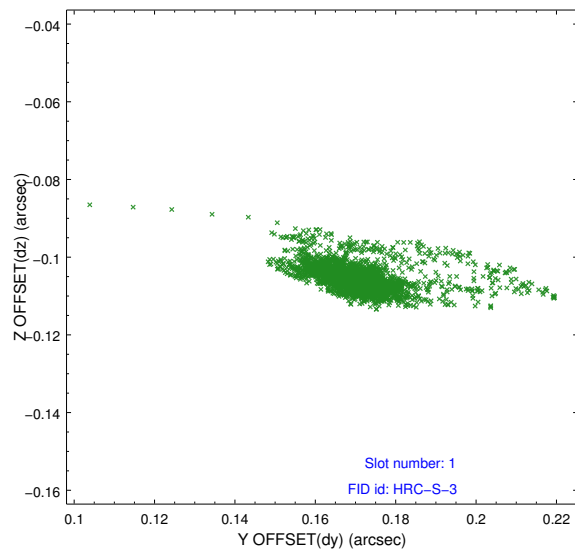


## 2.5 FID Slots

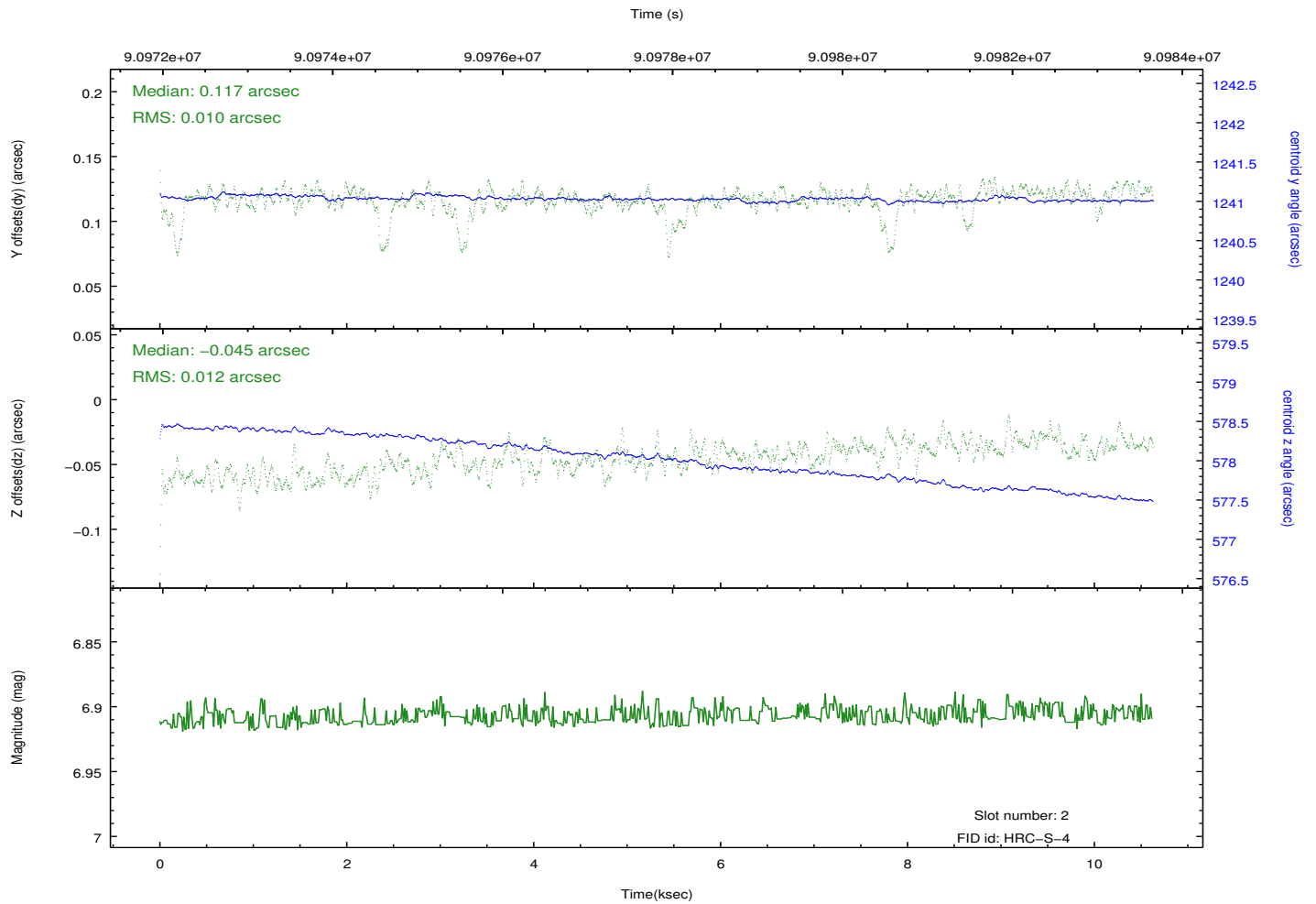
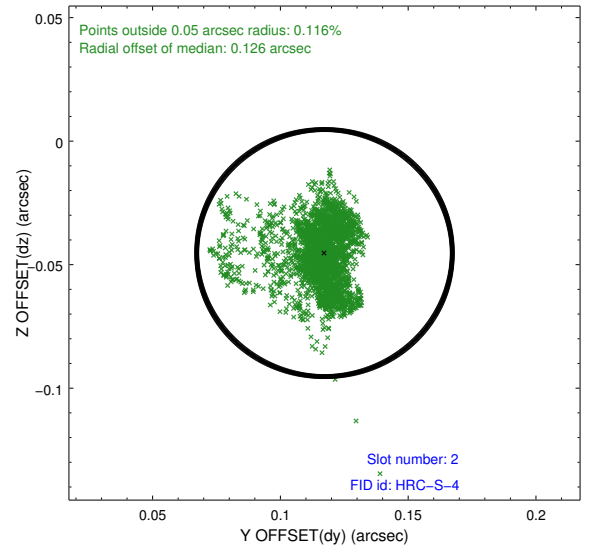
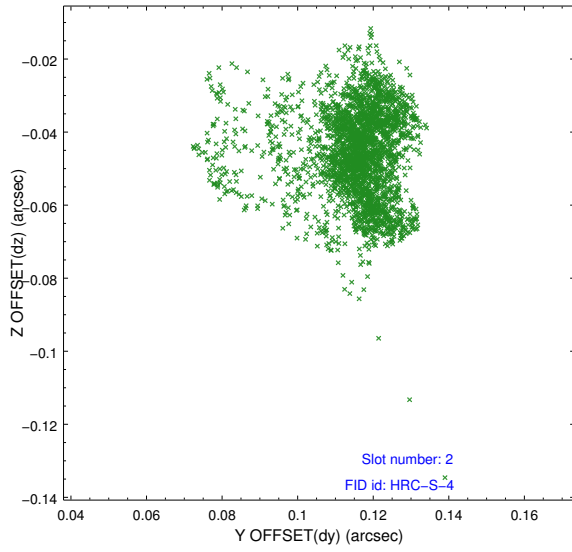
### 2.5.1 Slot 0



## 2.5.2 Slot 1

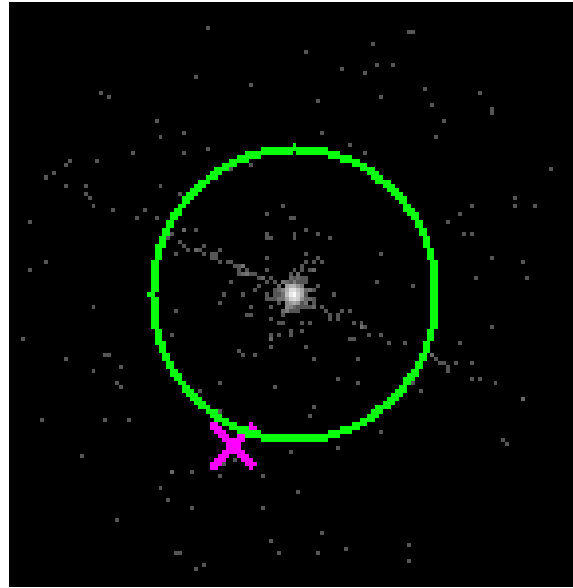


### 2.5.3 Slot 2

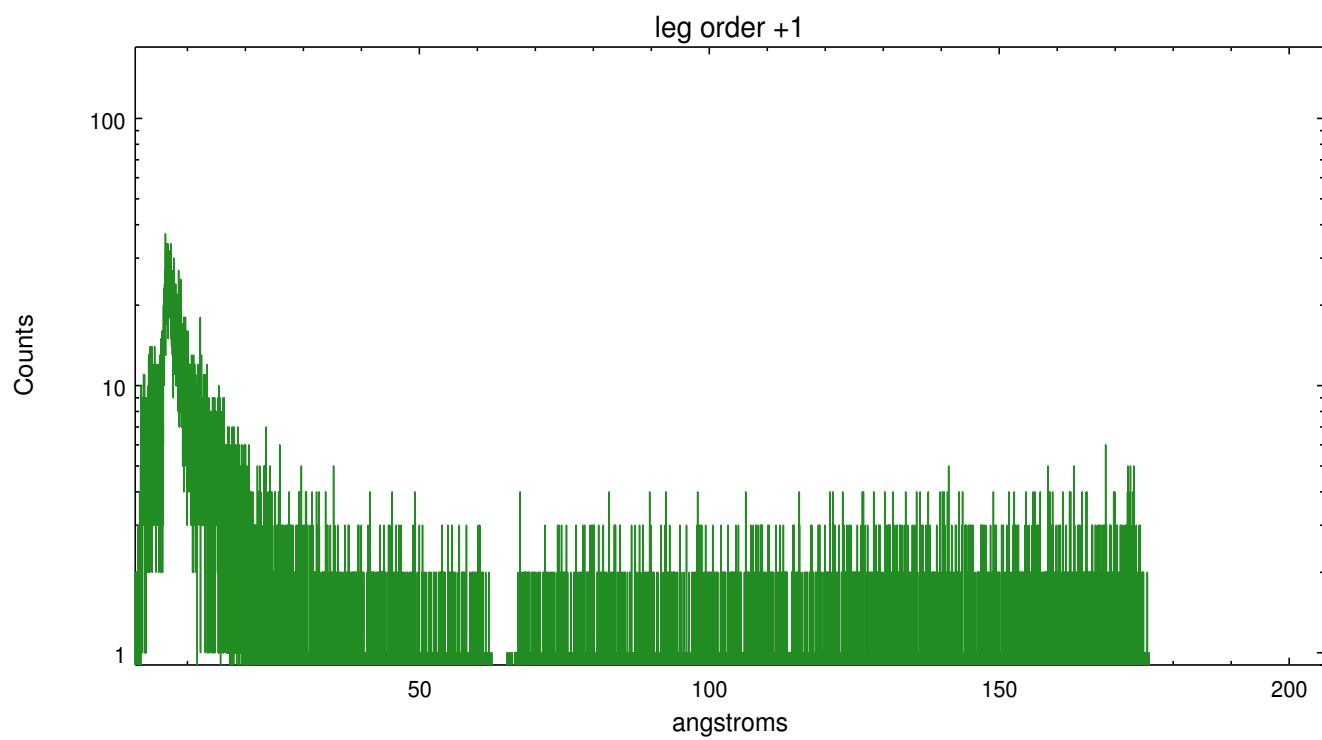
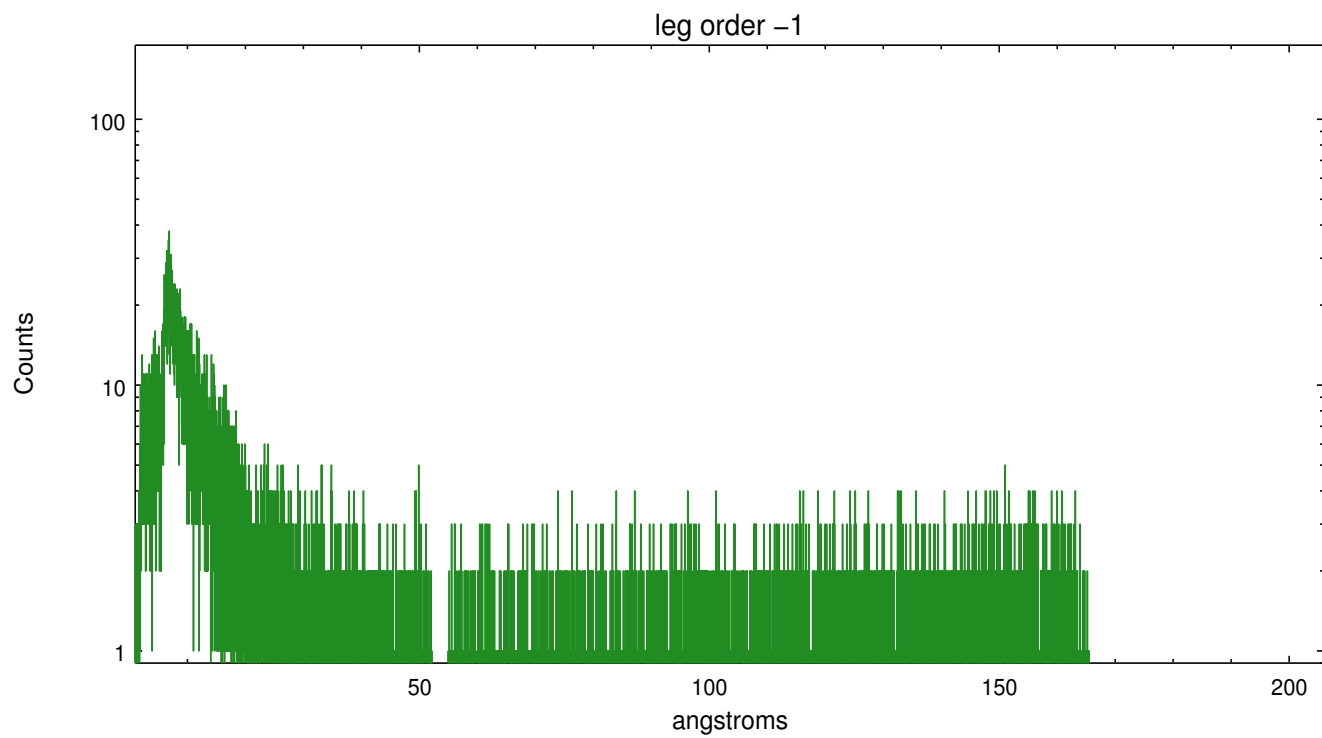


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.312

## A.2 Comments