

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 75 - L2 Version 001  
Chandra X-Ray Center

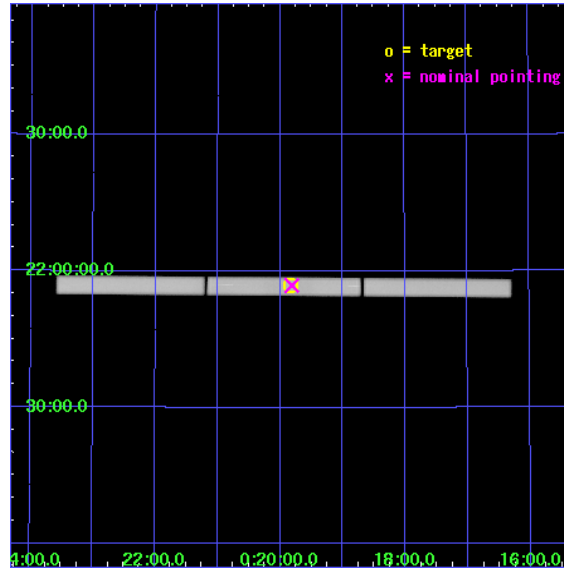
L2 Processing Date : Jun 9 2007

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# 1 Front

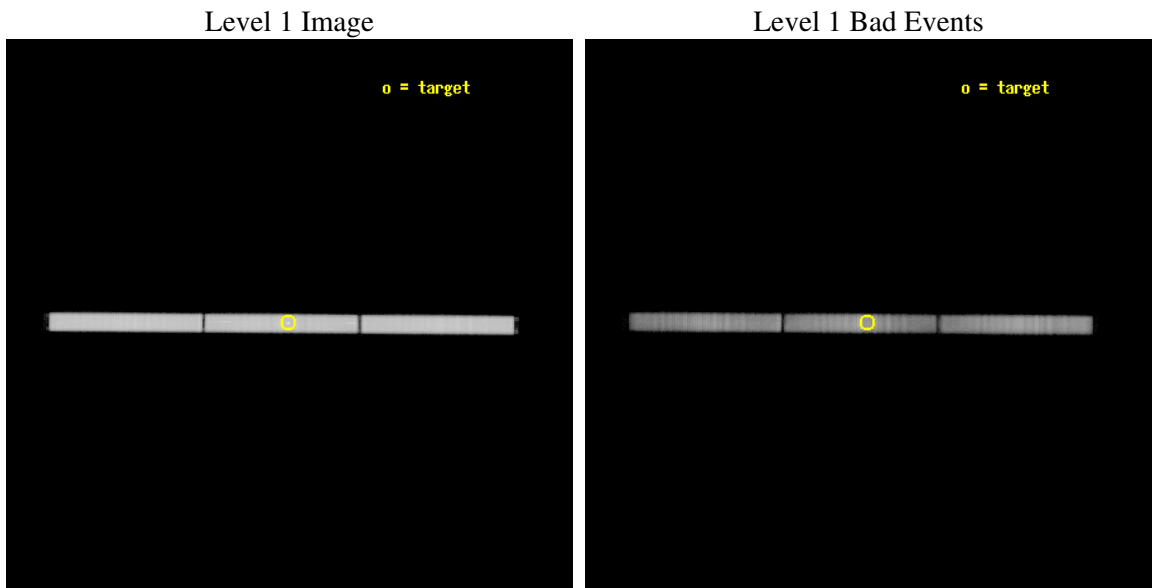
seq_num	300000
obs_id	75
title	OBSERVATIONS OF SUPER SOFT X-RAY SOURCES WITH LETGS
observer	Dr. Peter Predehl
object	RX J0019.8+2156
ra_targ	4.958333
dec_targ	21.948333
ra_nom	4.953042890845
dec_nom	21.948521394407
roll_nom	180.3524864278
revision	4
ontime	51722.783199534
livetime	51404.352791053
l2events	2548892



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-09T14:27:09
revision	4

sched_exp_time	51148.894000
ontime	51722.783199534
l1events	3724859

### 2.1.3 Events

Level 1 Events

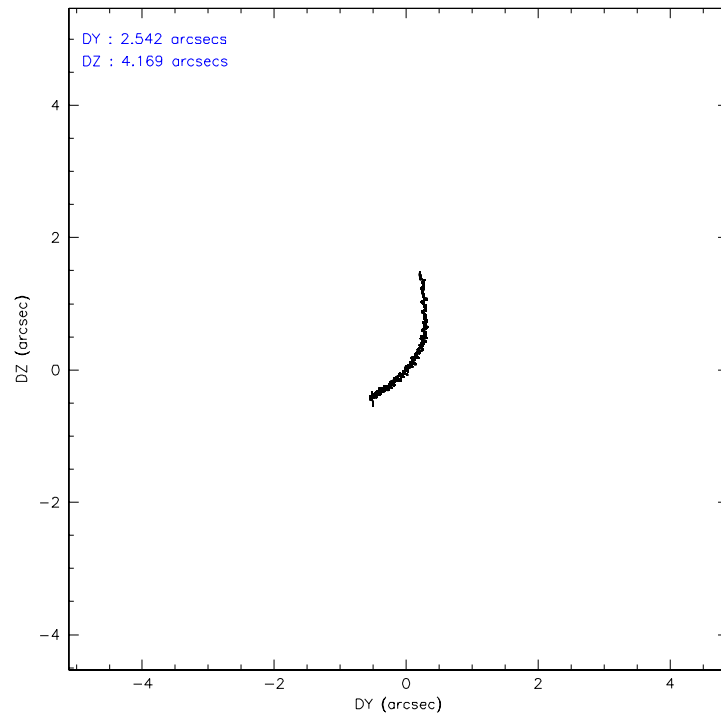
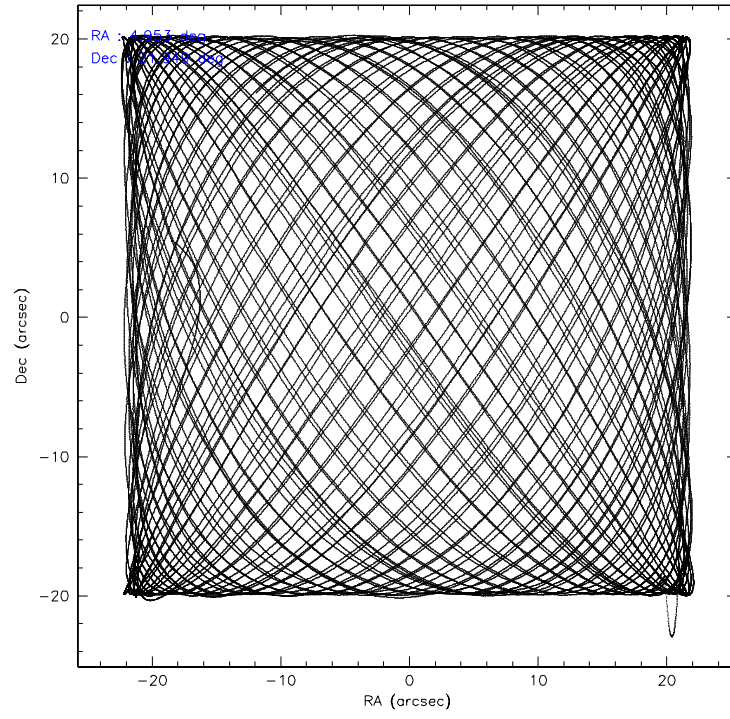
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1291328	1204963	1228568
rejected events	265758	282164	329157
rejected %	20%	23%	26%

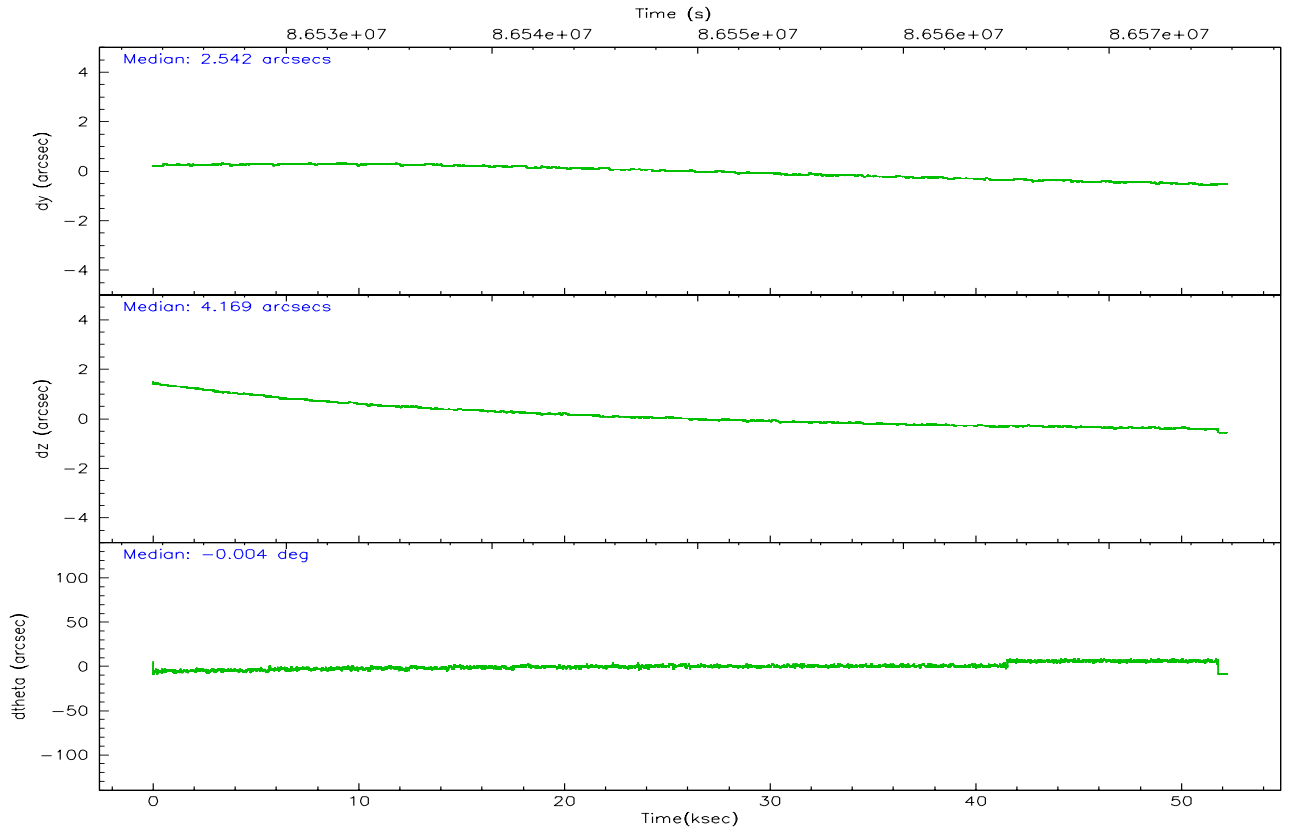
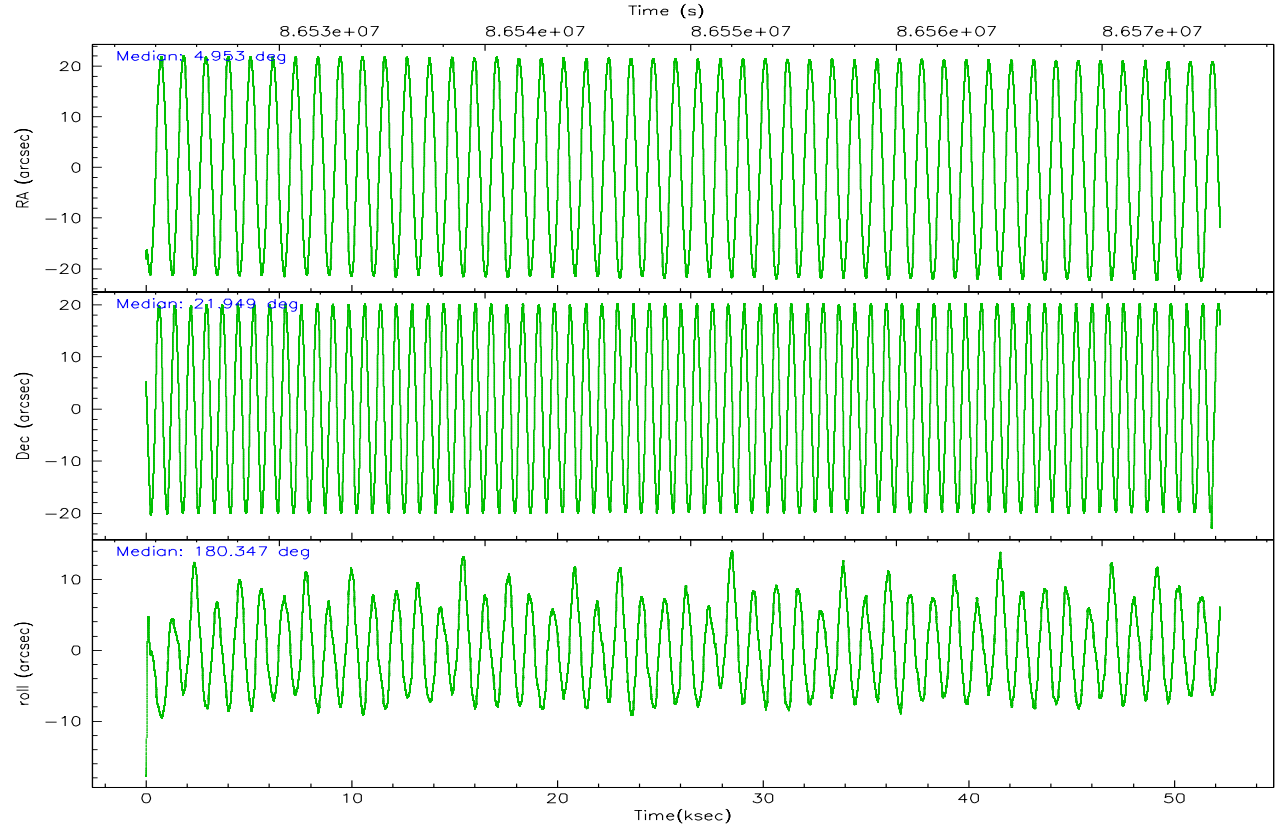


## 2.2 Compared Parameters

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	4.979096	4.953042890844964			
Pointing Dec	21.964097	21.94852139440698			
Pointing Roll	180.275366	180.3524864277967			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	86523706.184000	86522793.428169			
Observation start date	2000-09-28T10:20:42	2000-09-28T10:06:33			
Observation end time	86574855.184000	86576322.005187			
Observation end date	2000-09-29T00:33:11	2000-09-29T00:58:42			

## 2.3 Aspect



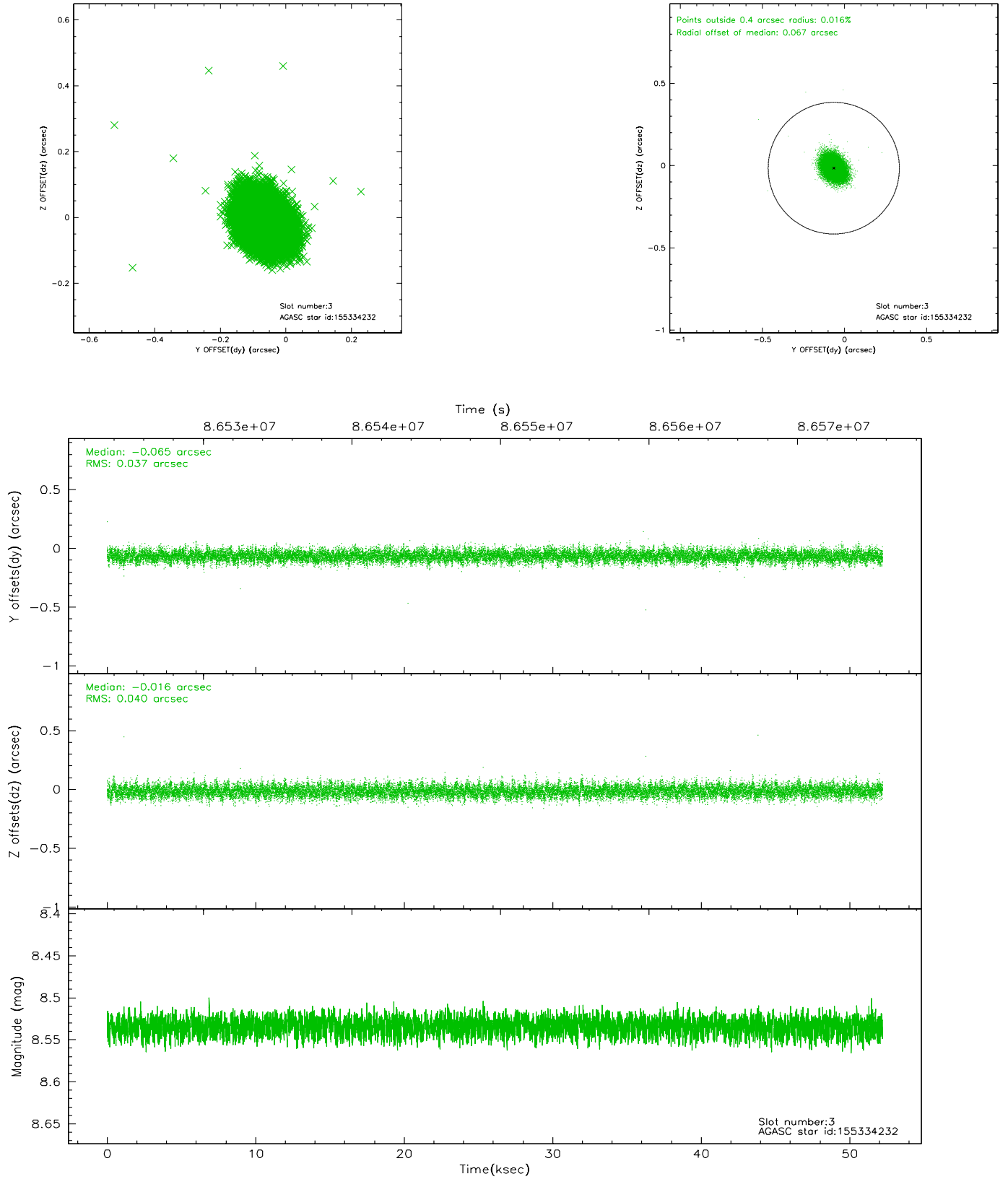


### Slot Statistics

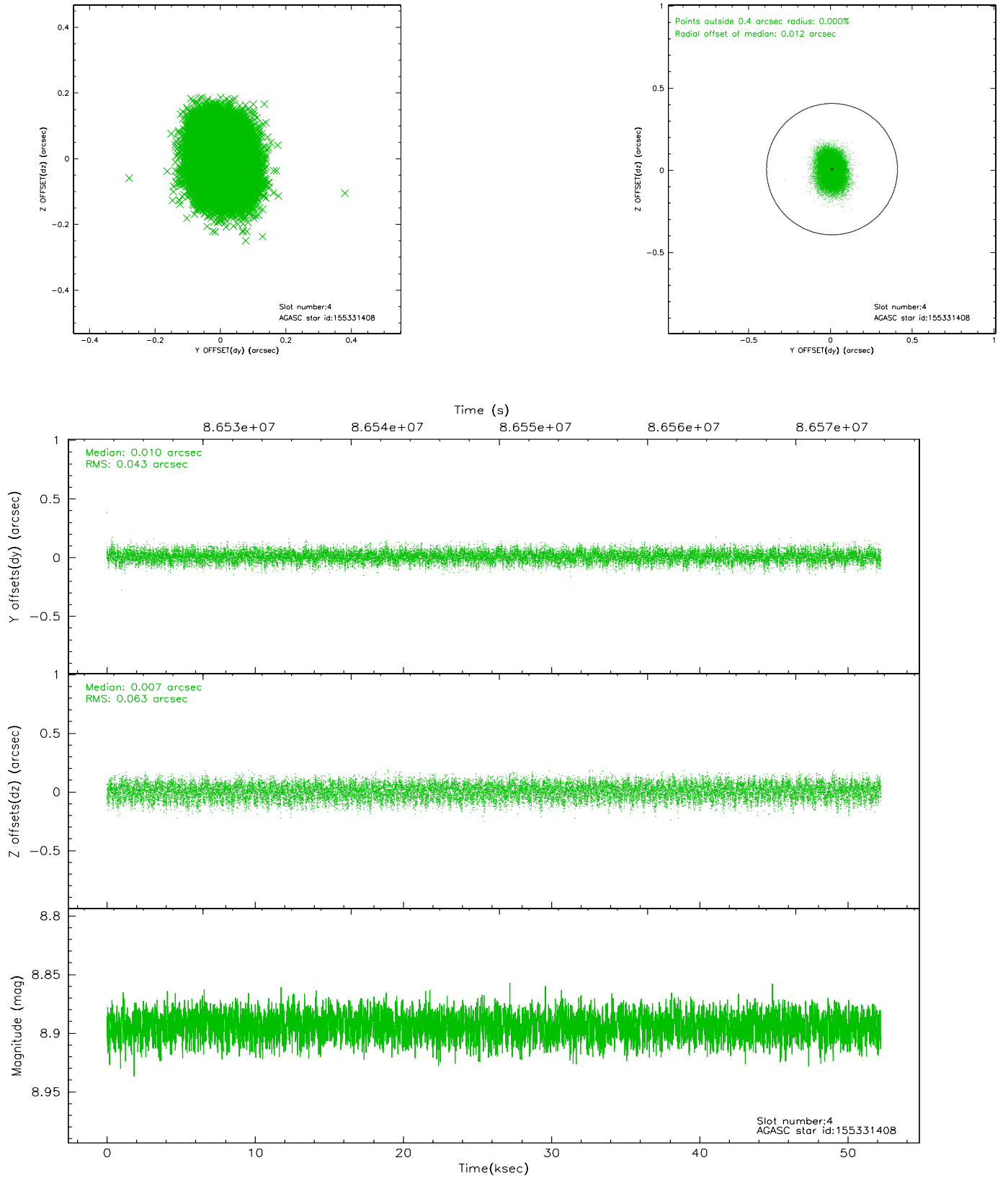
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	12638	0.118	-0.136	0.027	0.037	0.000000	0.000000	-1156.55	-452.81
1	FID	HRC-S-3	7.02	12634	0.136	-0.066	0.023	0.033	0.000000	0.000000	-1159.36	576.76
2	FID	HRC-S-4	6.97	12635	0.132	-0.095	0.007	0.012	0.000000	0.000000	1241.62	579.38
3	GUIDE	155334232	8.53	25468	-0.065	-0.016	0.058	0.094	4.763757	22.368715	709.41	-1459.68
4	GUIDE	155331408	8.89	25463	0.010	0.007	0.081	0.132	5.115014	22.479794	-461.41	-1853.78
5	GUIDE	155321768	8.94	25459	-0.006	0.073	0.091	0.143	4.613794	21.477628	1231.41	1744.92
6	GUIDE	155455568	9.65	25461	0.028	-0.044	0.117	0.188	5.581344	21.561522	-2010.07	1455.72
7	GUIDE	155320904	9.65	25452	0.033	-0.022	0.092	0.155	4.856782	21.638106	414.22	1172.34

## 2.4 Star Slots

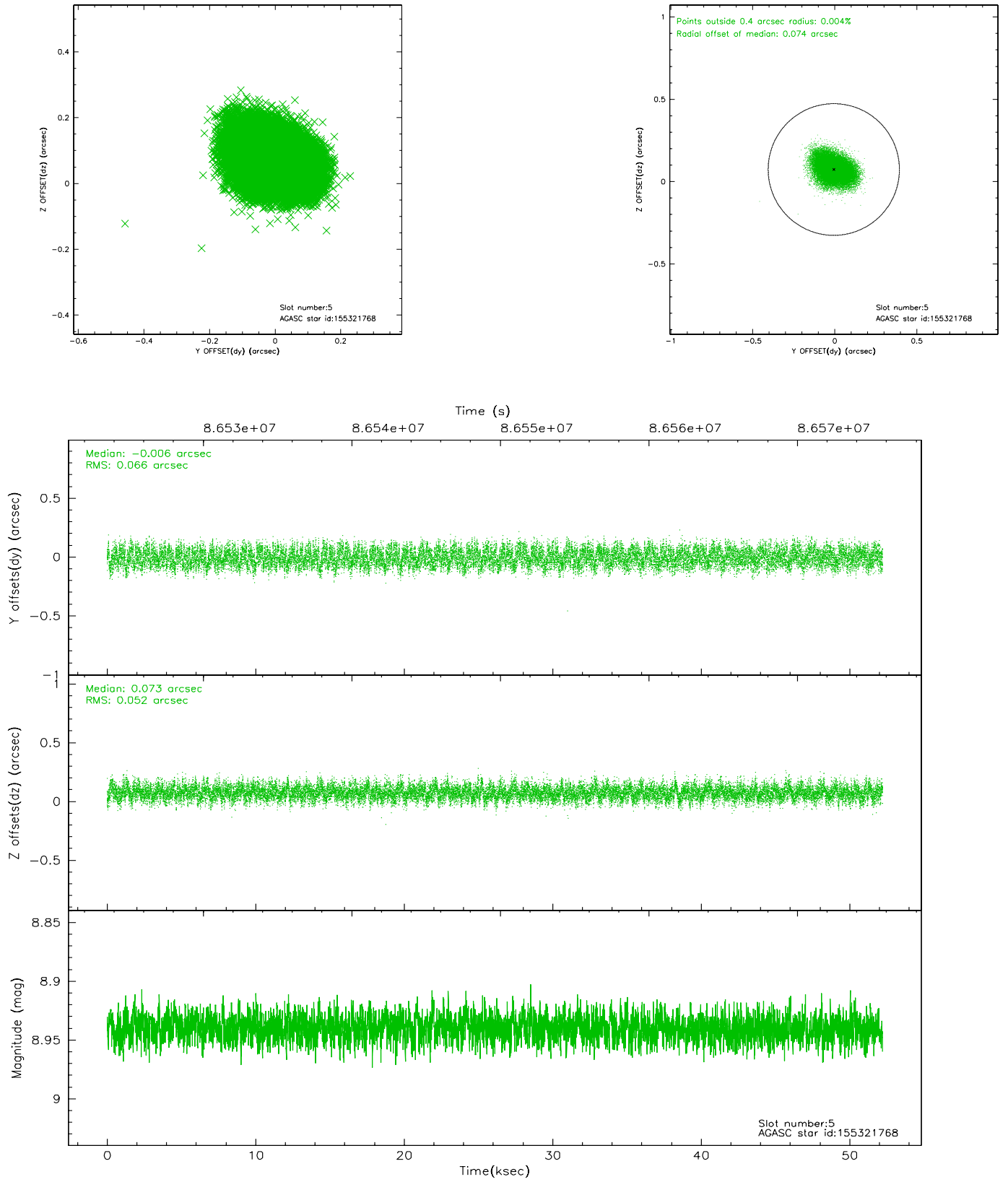
### 2.4.1 Slot 3



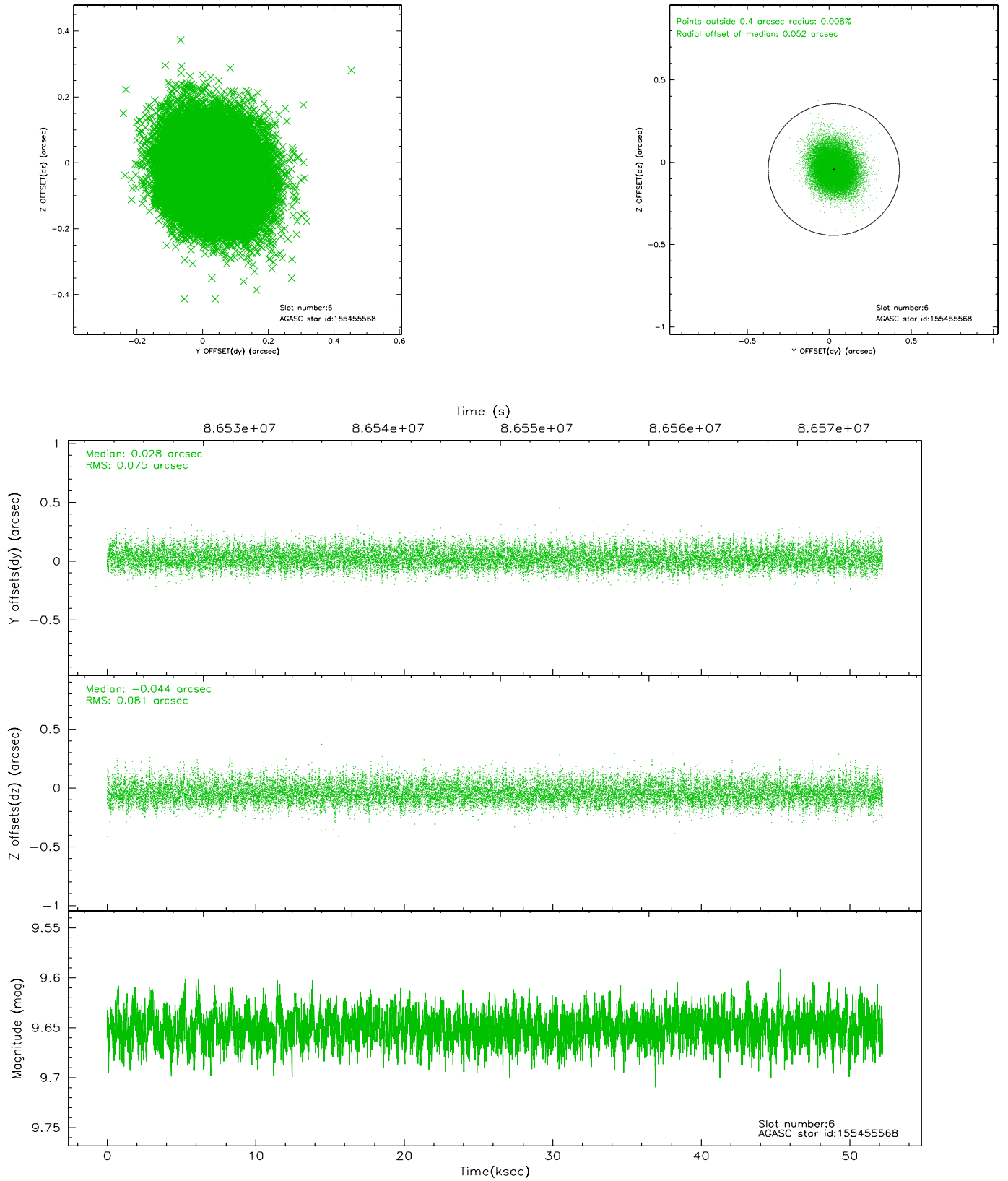
## 2.4.2 Slot 4



### 2.4.3 Slot 5

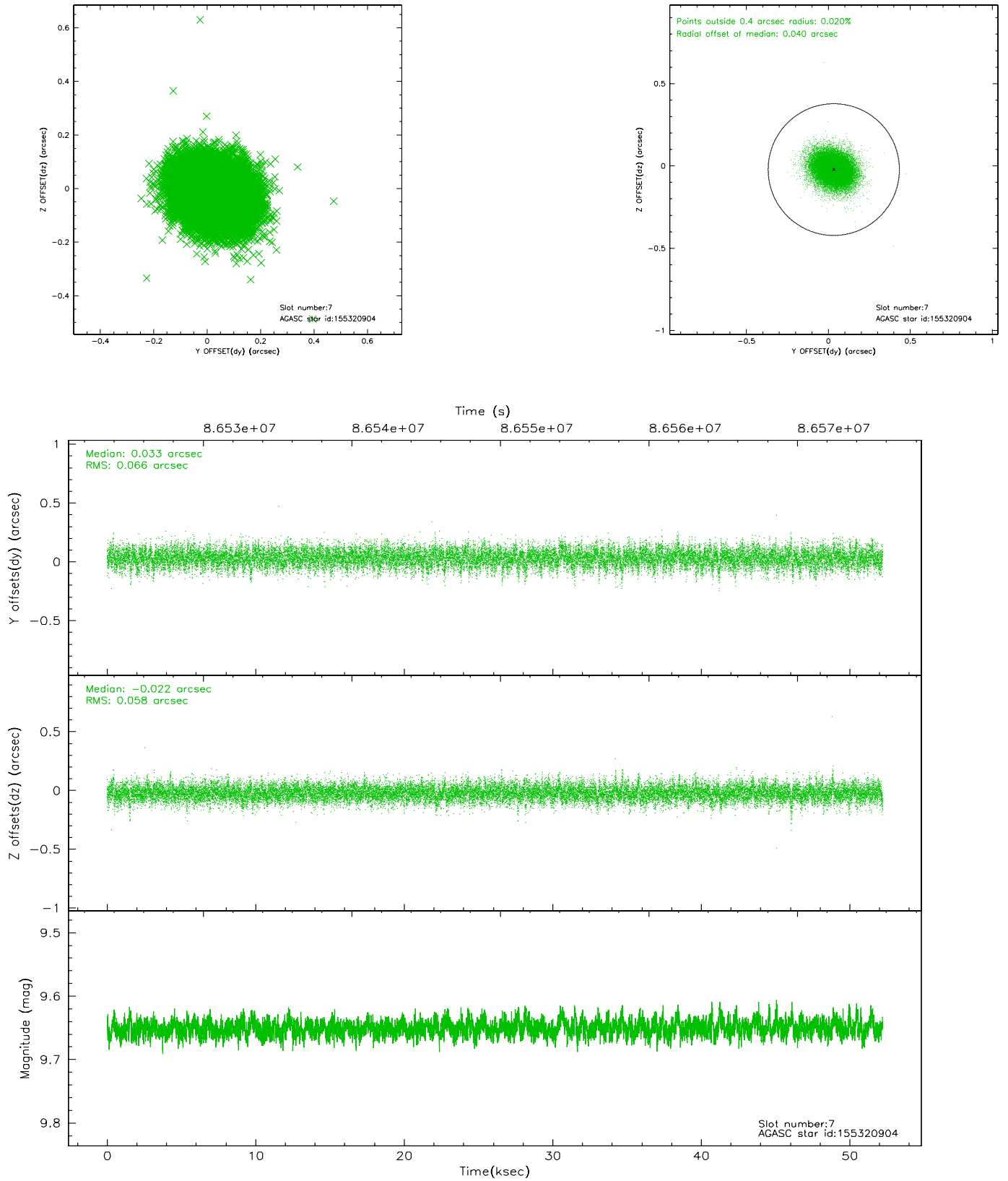


## 2.4.4 Slot 6



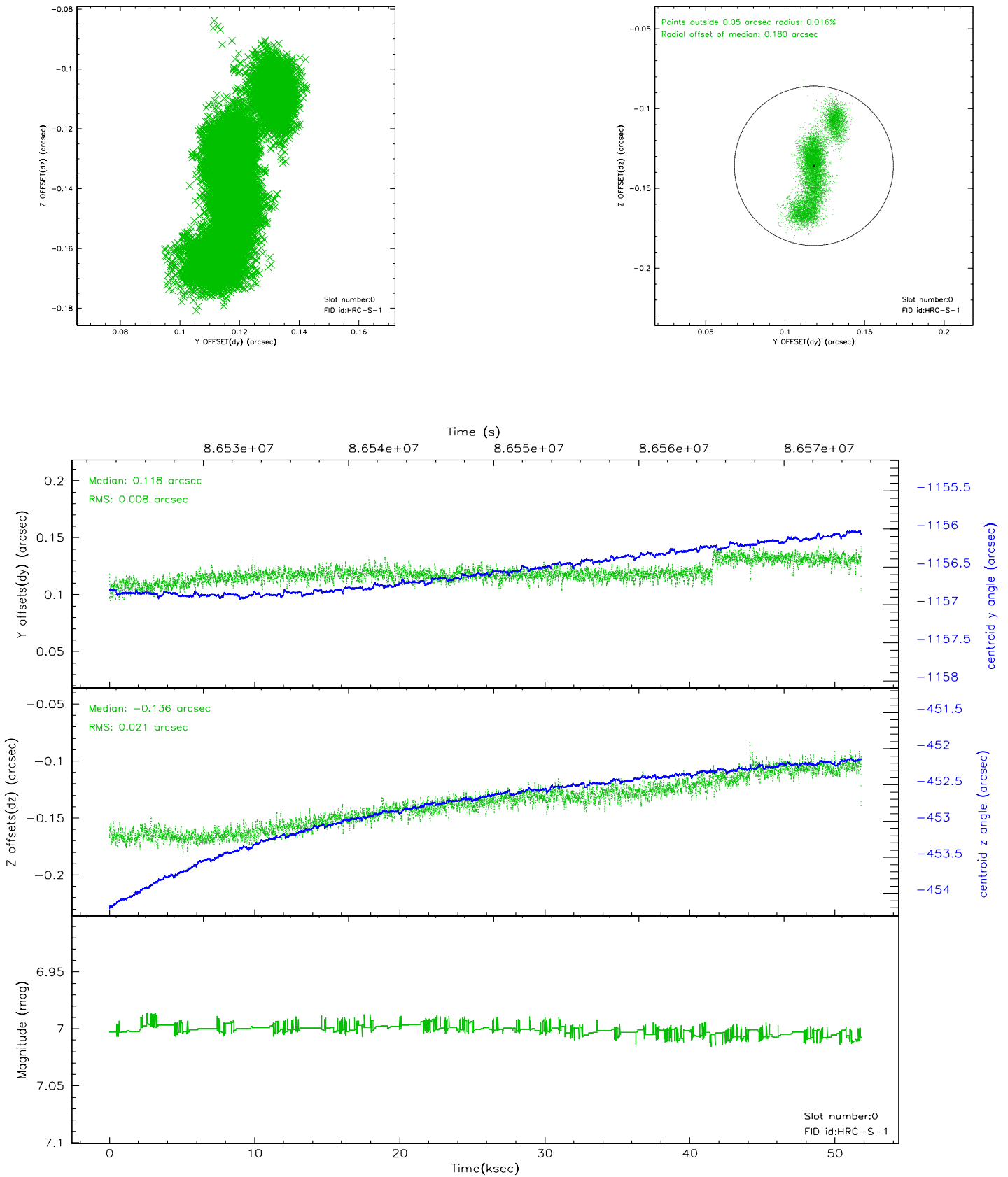


## 2.4.5 Slot 7

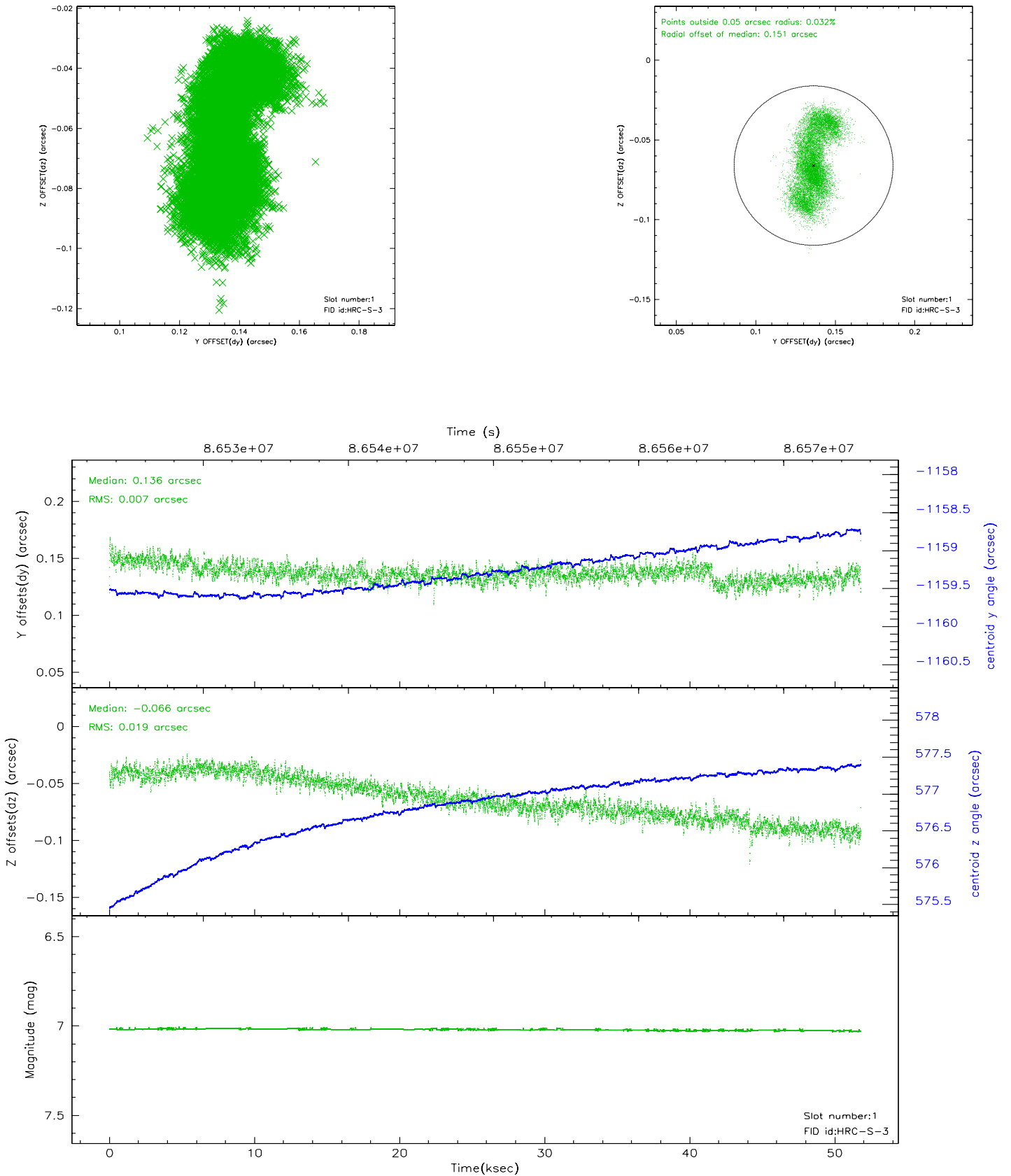


## 2.5 FID Slots

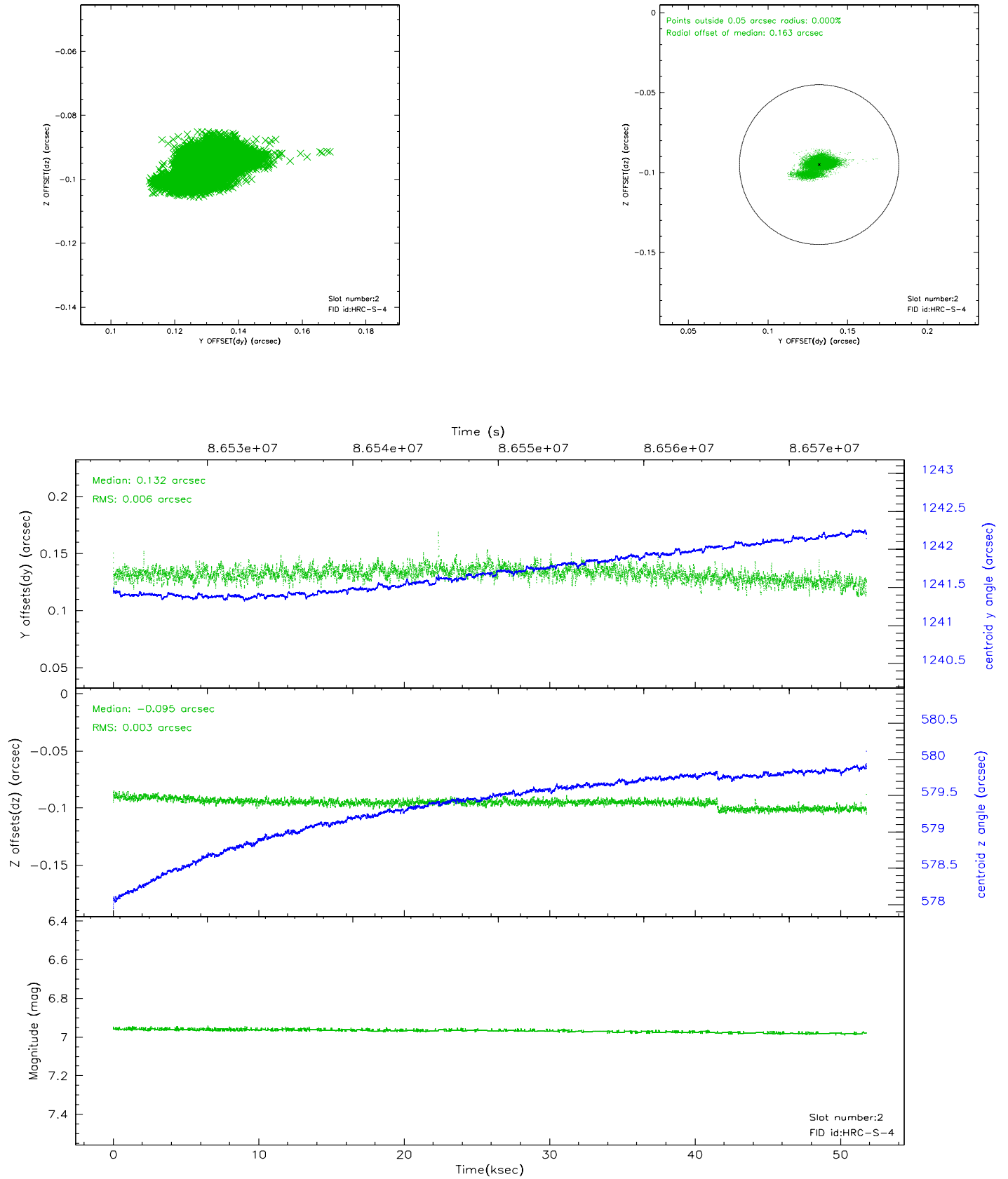
### 2.5.1 Slot 0



## 2.5.2 Slot 1

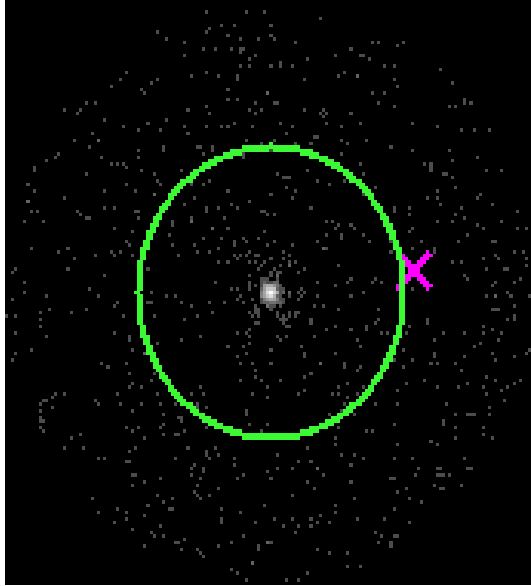


### 2.5.3 Slot 2

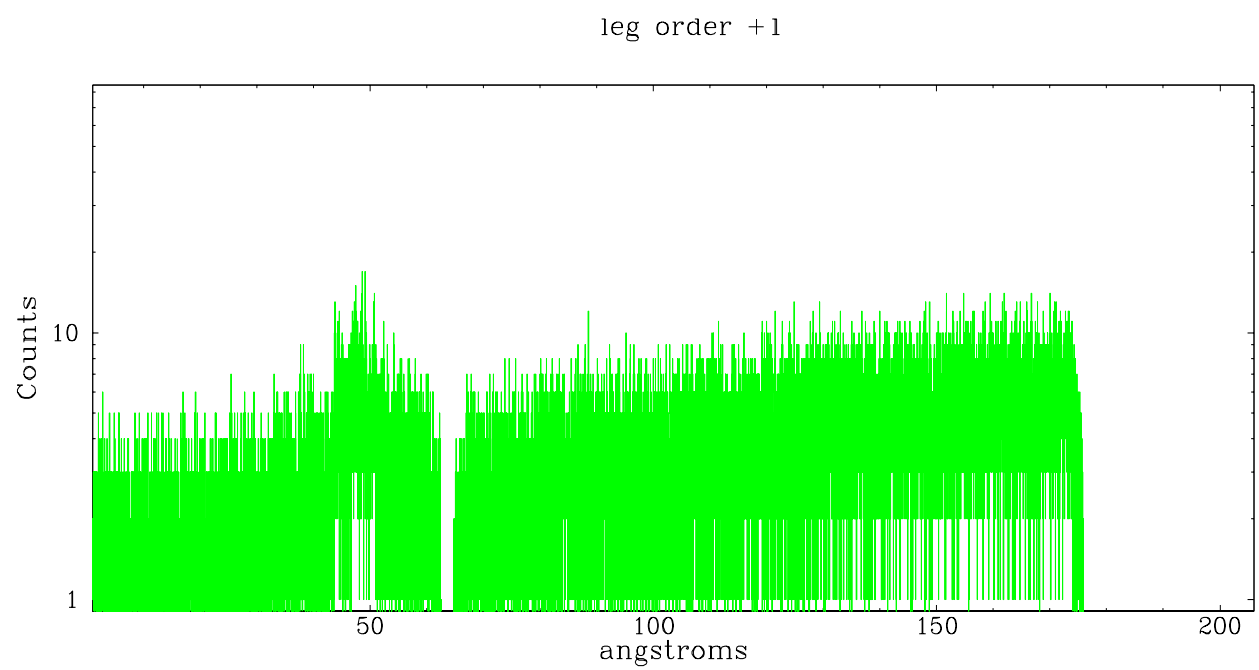
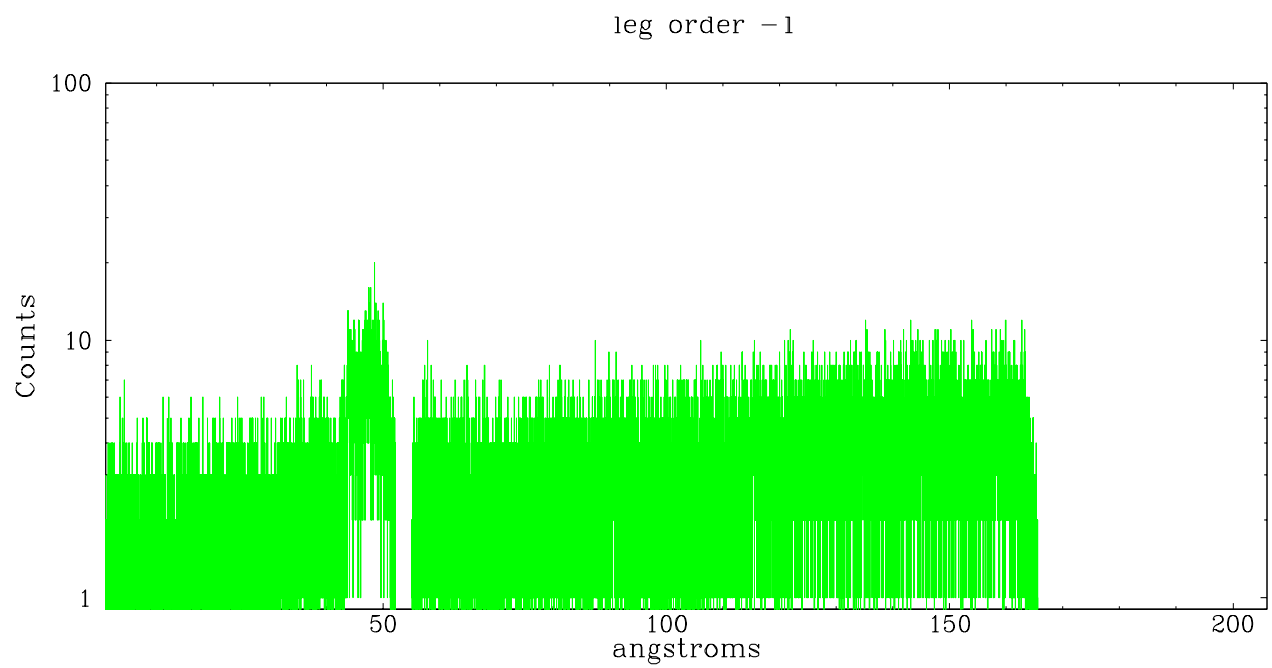


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	51.706

## A.2 Comments

There are numerous spikes in the count rate during this observation, due to a high radiation environment. The dead time factor (DTF) file reflects these spikes in the count rate.