

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 975 - L2 Version 001  
Chandra X-Ray Center

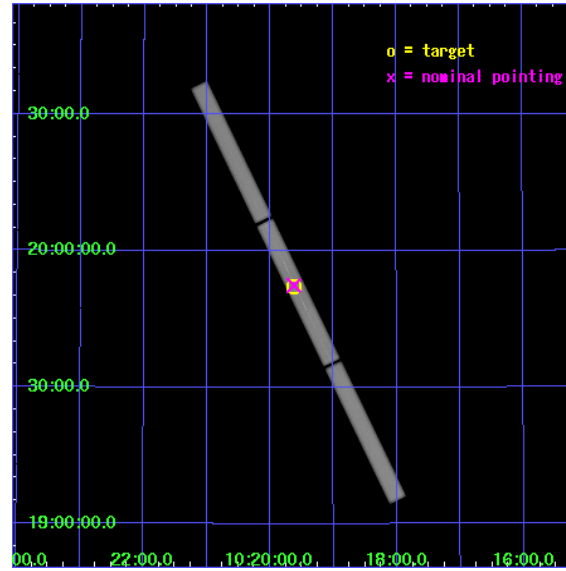
L2 Processing Date : Jun 14 2007

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# 1 Front

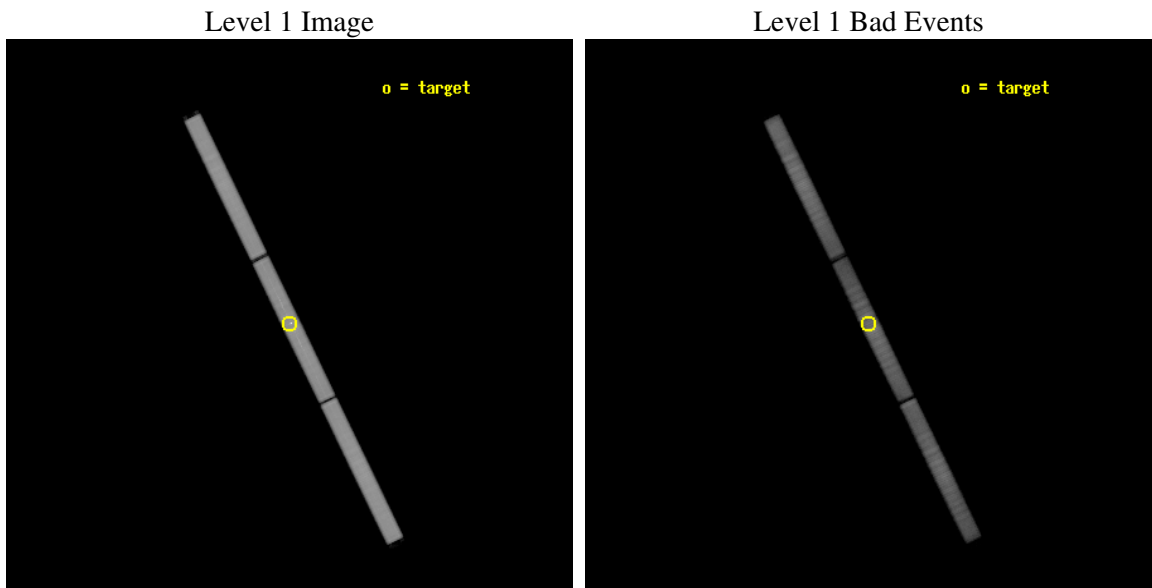
seq_num	200082
obs_id	975
title	EMISSION FROM LATE-TYPE STAR AD LEO
observer	Dr. Stephen Murray
object	AD LEO
ra_targ	154.903833
dec_targ	19.870056
ra_nom	154.90629843991
dec_nom	19.874312073331
roll_nom	63.98503461716
revision	4
ontime	48430.483079389
livetime	48122.800454673
l2events	2442209



## 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	2007-06-14T05:58:55
revision	4

sched_exp_time	48235.000000
ontime	48430.483080387
l1events	3640020

### 2.1.3 Events

Level 1 Events

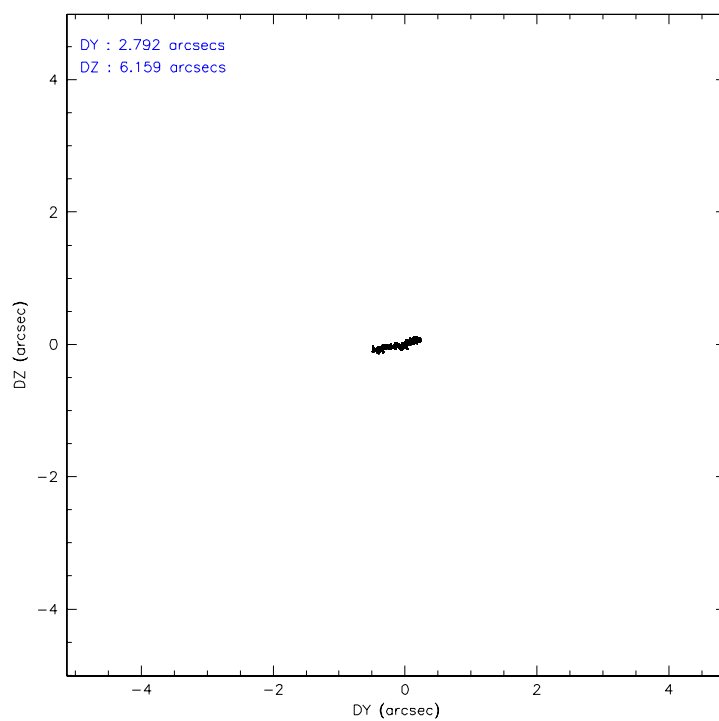
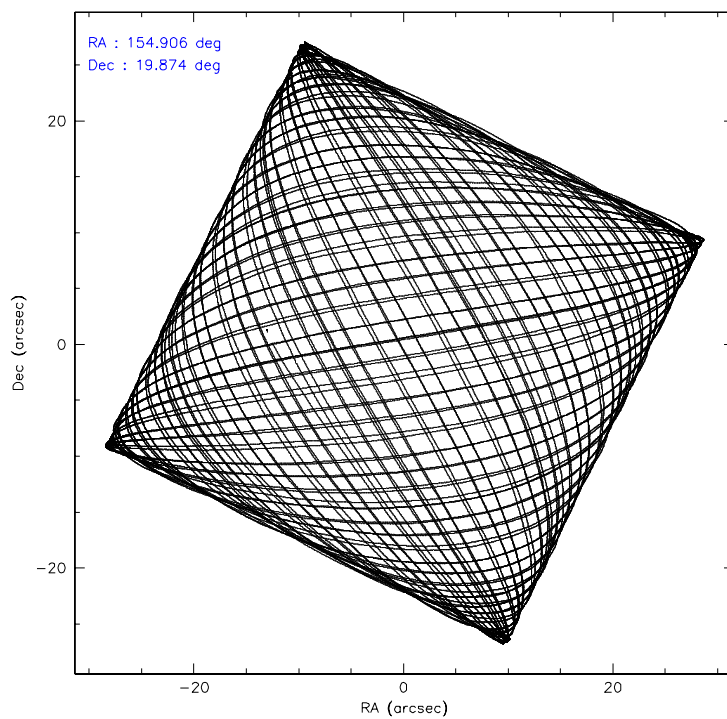
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1252976	1187597	1199447
rejected events	278712	290138	336461
rejected %	22%	24%	28%

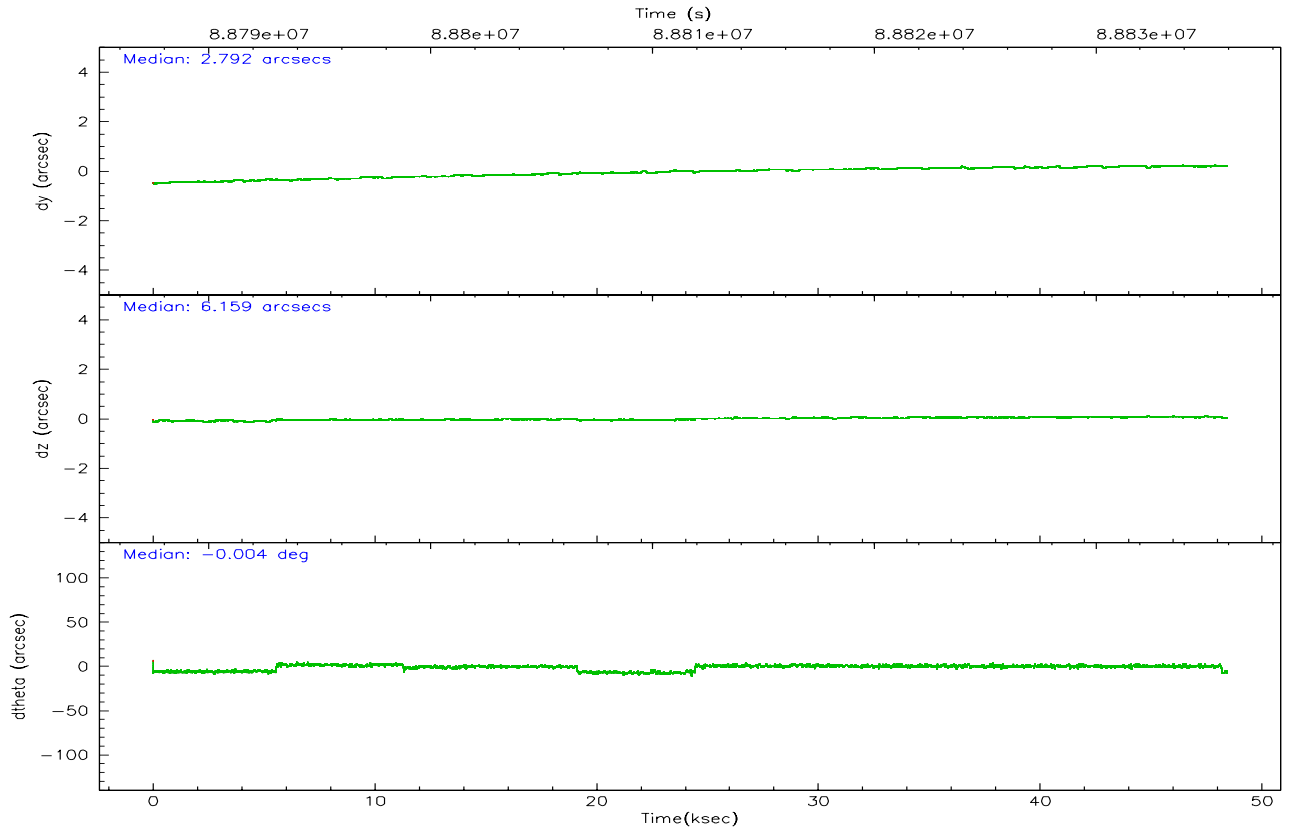
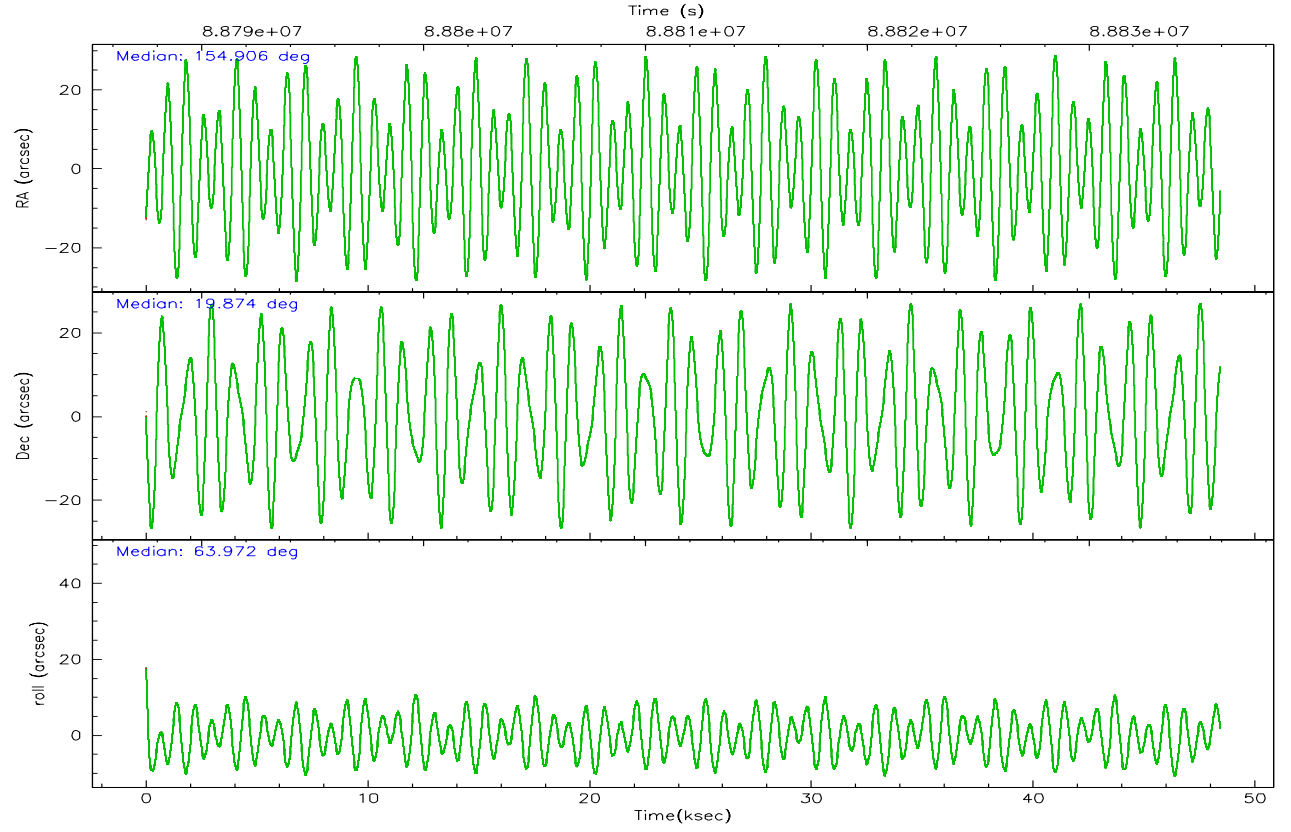


## 2.2 Compared Parameters

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	154.909751	154.9062984399125			
Pointing Dec	19.845804	19.87431207333082			
Pointing Roll	63.916521	63.98503461715998			
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	88787686.184000	88787176.36368699			
Observation start date	2000-10-24T15:13:42	2000-10-24T15:06:16			
Observation end time	88835921.184000	88836517.30305199			
Observation end date	2000-10-25T04:37:37	2000-10-25T04:48:37			

## 2.3 Aspect



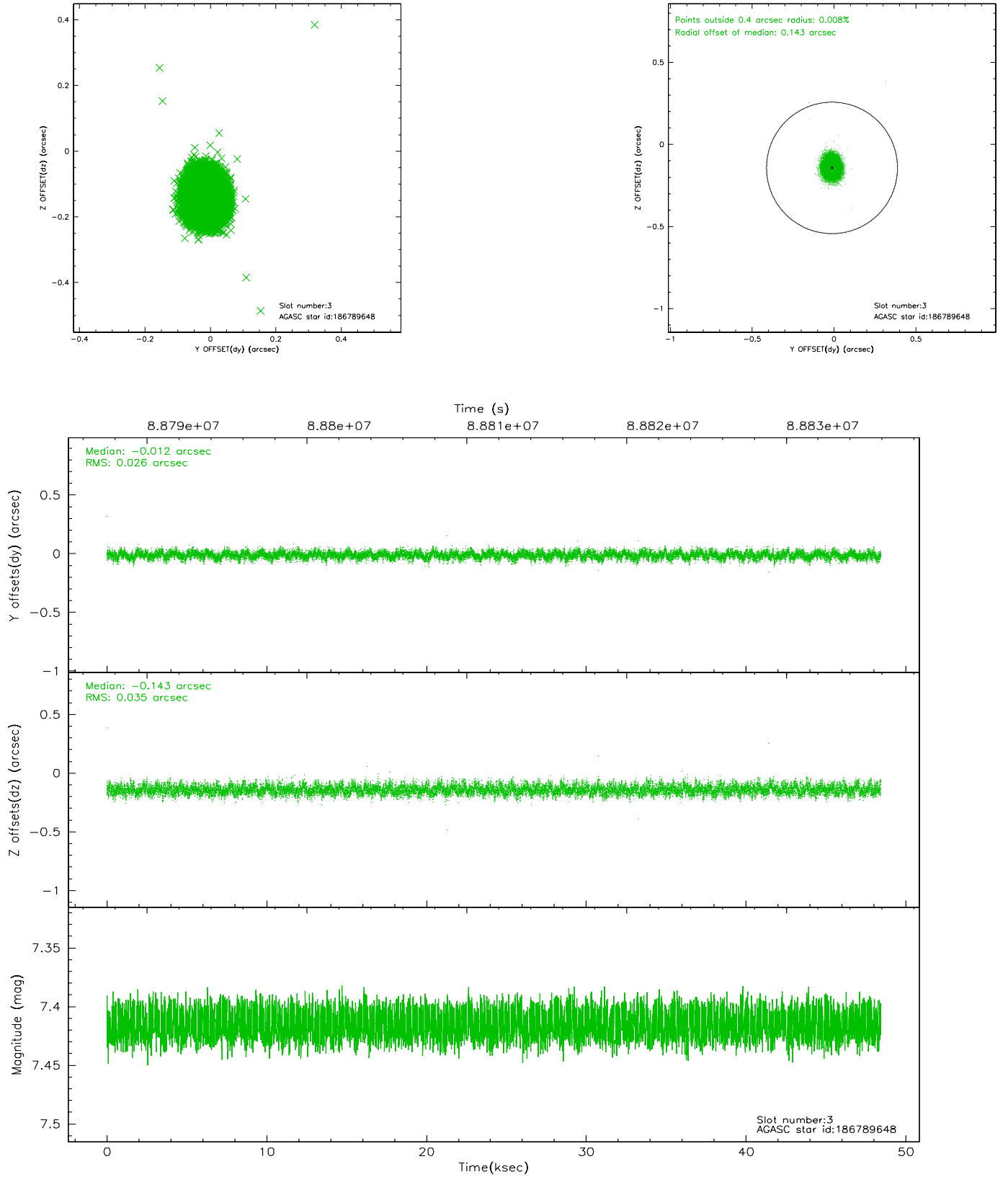


Slot Statistics

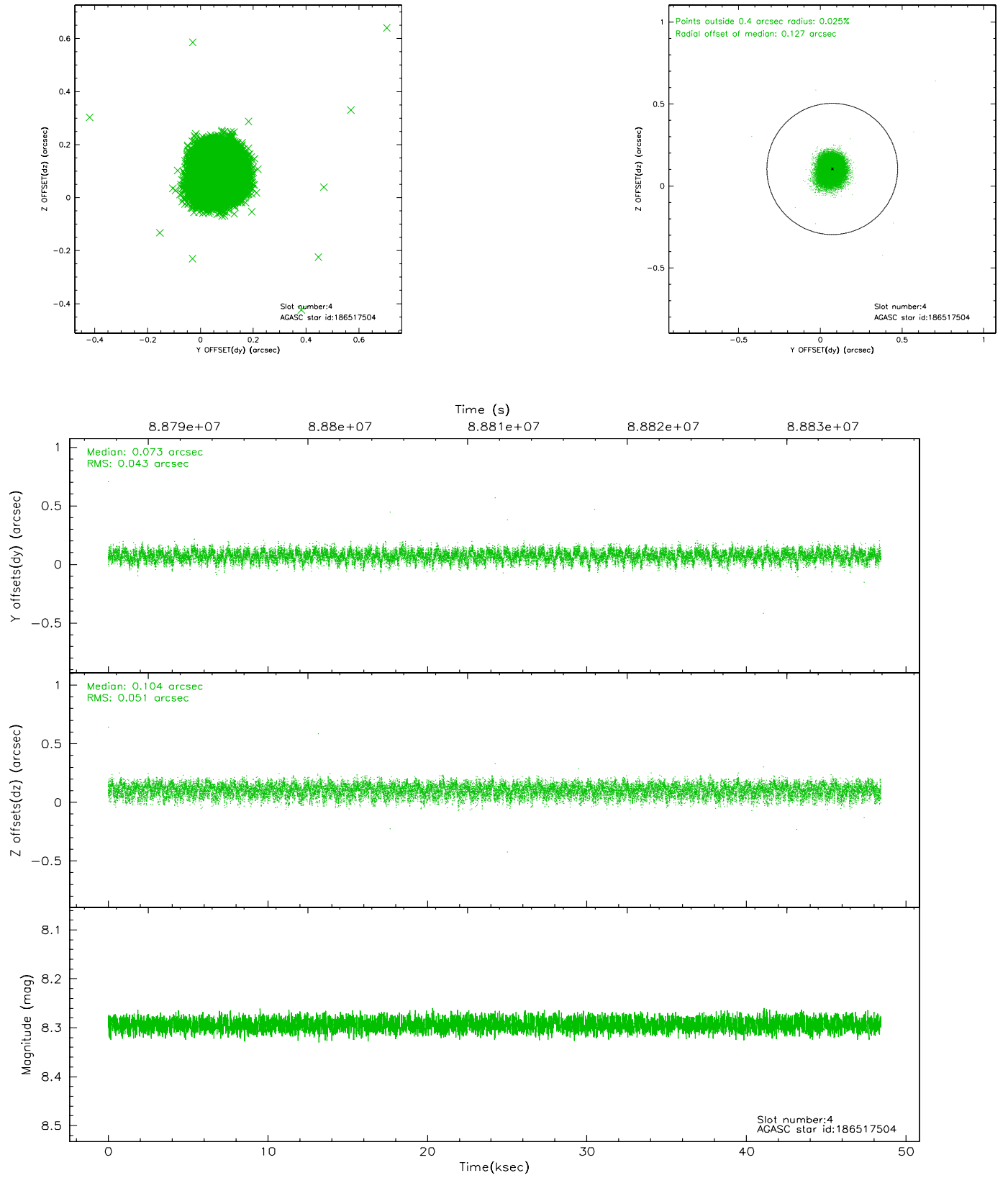
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	11812	0.106	-0.134	0.010	0.020	0.000000	0.000000	-1156.79	-454.72
1	FID	HRC-S-3	7.01	11813	0.147	-0.074	0.011	0.023	0.000000	0.000000	-1159.59	574.83
2	FID	HRC-S-4	6.95	11813	0.136	-0.090	0.007	0.012	0.000000	0.000000	1241.38	577.52
3	GUIDE	186789648	7.42	23624	-0.012	-0.143	0.047	0.077	154.440273	20.003419	-187.20	1677.09
4	GUIDE	186517504	8.29	23622	0.073	0.104	0.071	0.113	155.199091	19.538995	-559.47	-1366.45
5	GUIDE	186915152	8.64	23618	-0.160	0.188	0.061	0.100	155.481319	20.053598	1524.67	-1404.84
6	GUIDE	186517264	9.02	23612	-0.076	0.159	0.081	0.134	155.474034	19.793179	673.33	-1797.95
7	GUIDE	186390704	9.31	23608	0.178	-0.306	0.102	0.164	154.186948	19.891390	-924.24	2271.95

## 2.4 Star Slots

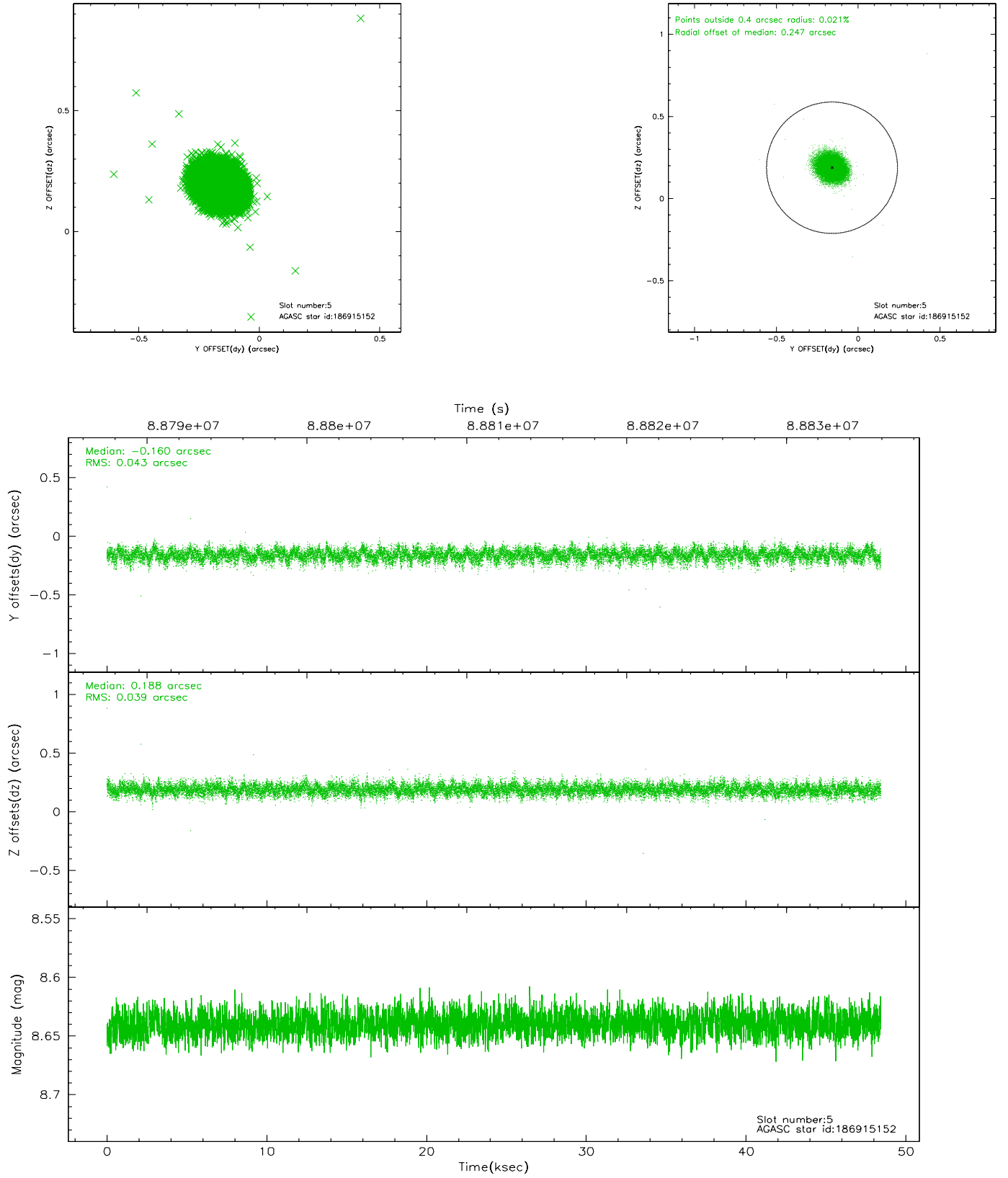
### 2.4.1 Slot 3



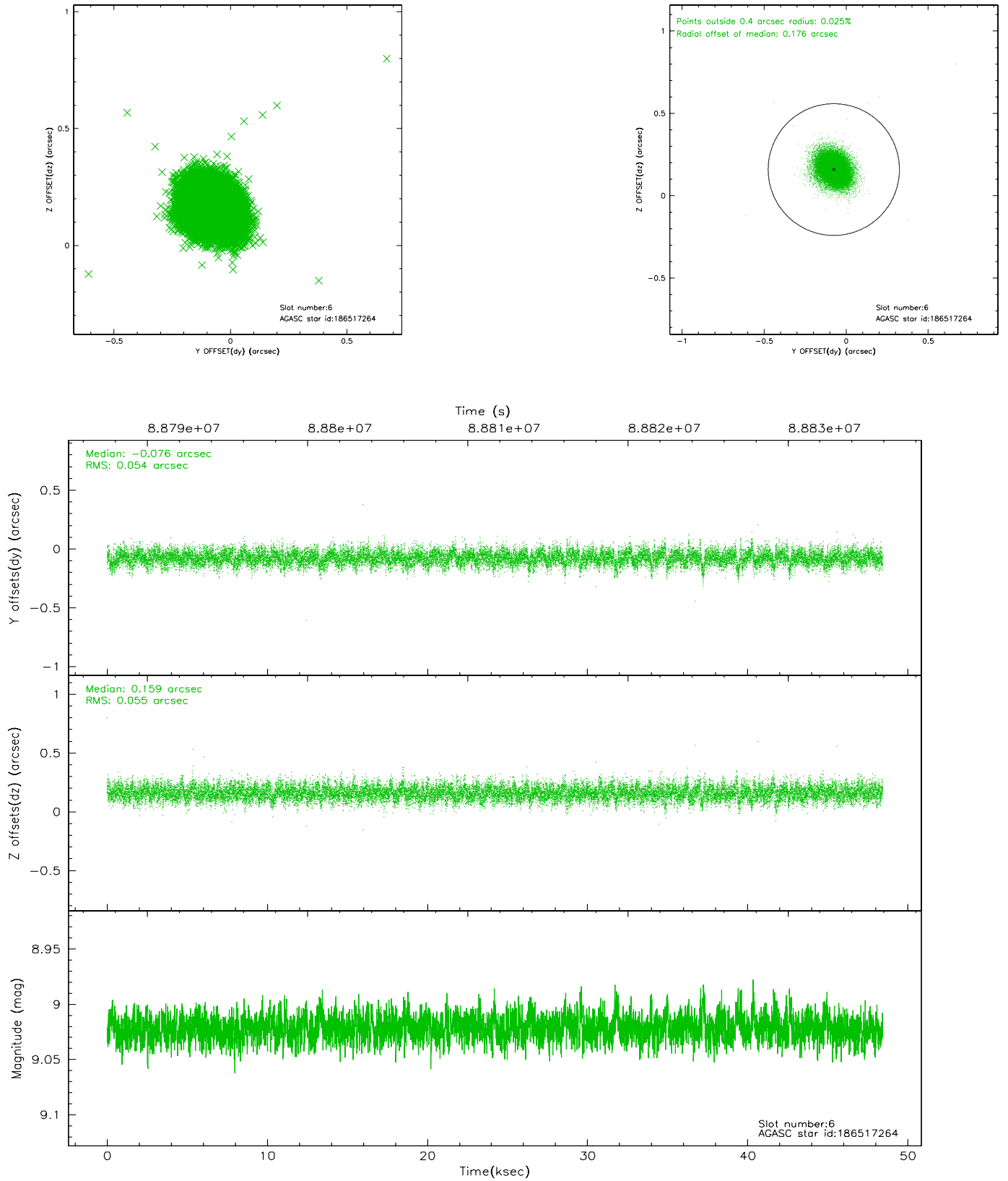
## 2.4.2 Slot 4



### 2.4.3 Slot 5

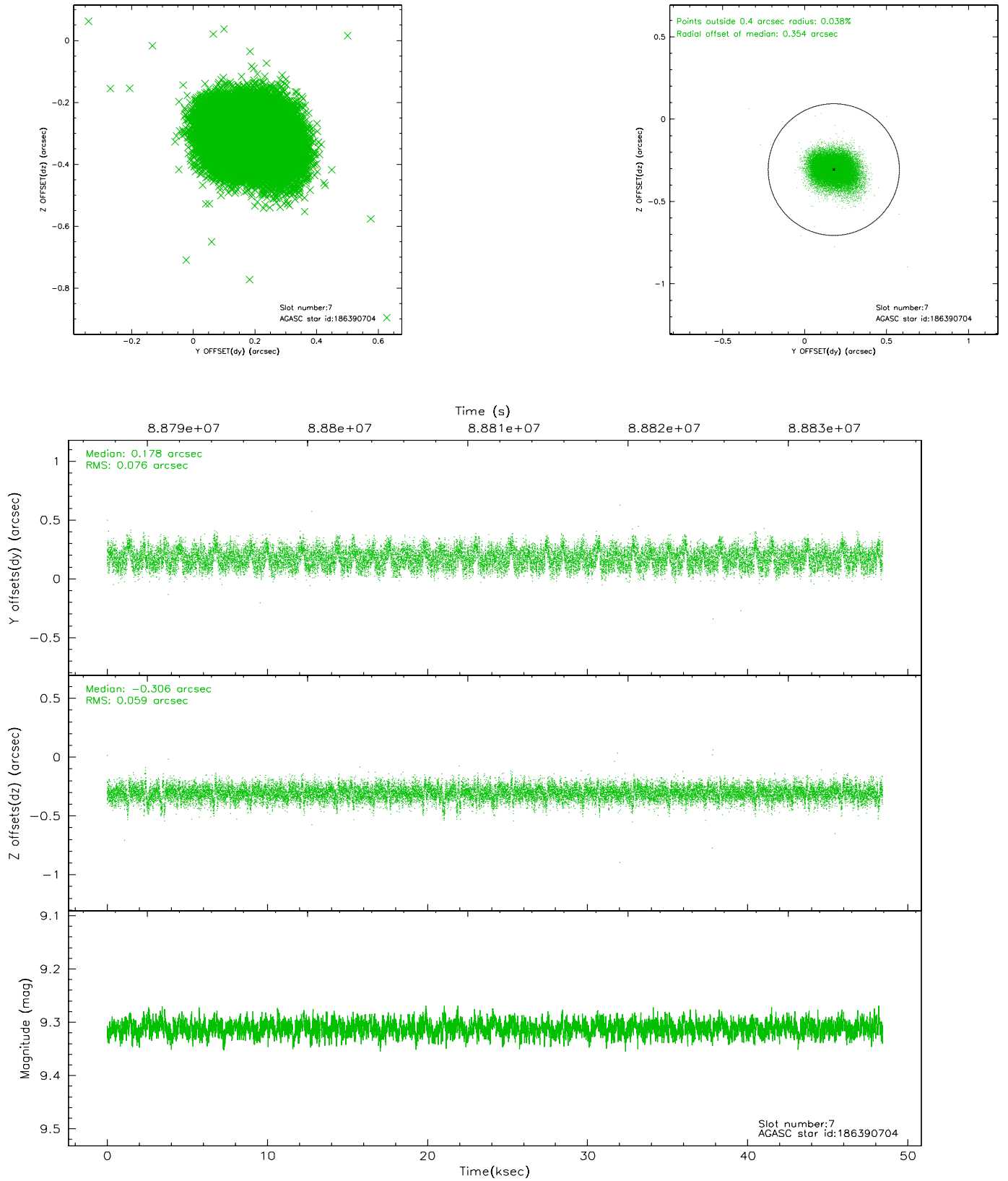


## 2.4.4 Slot 6



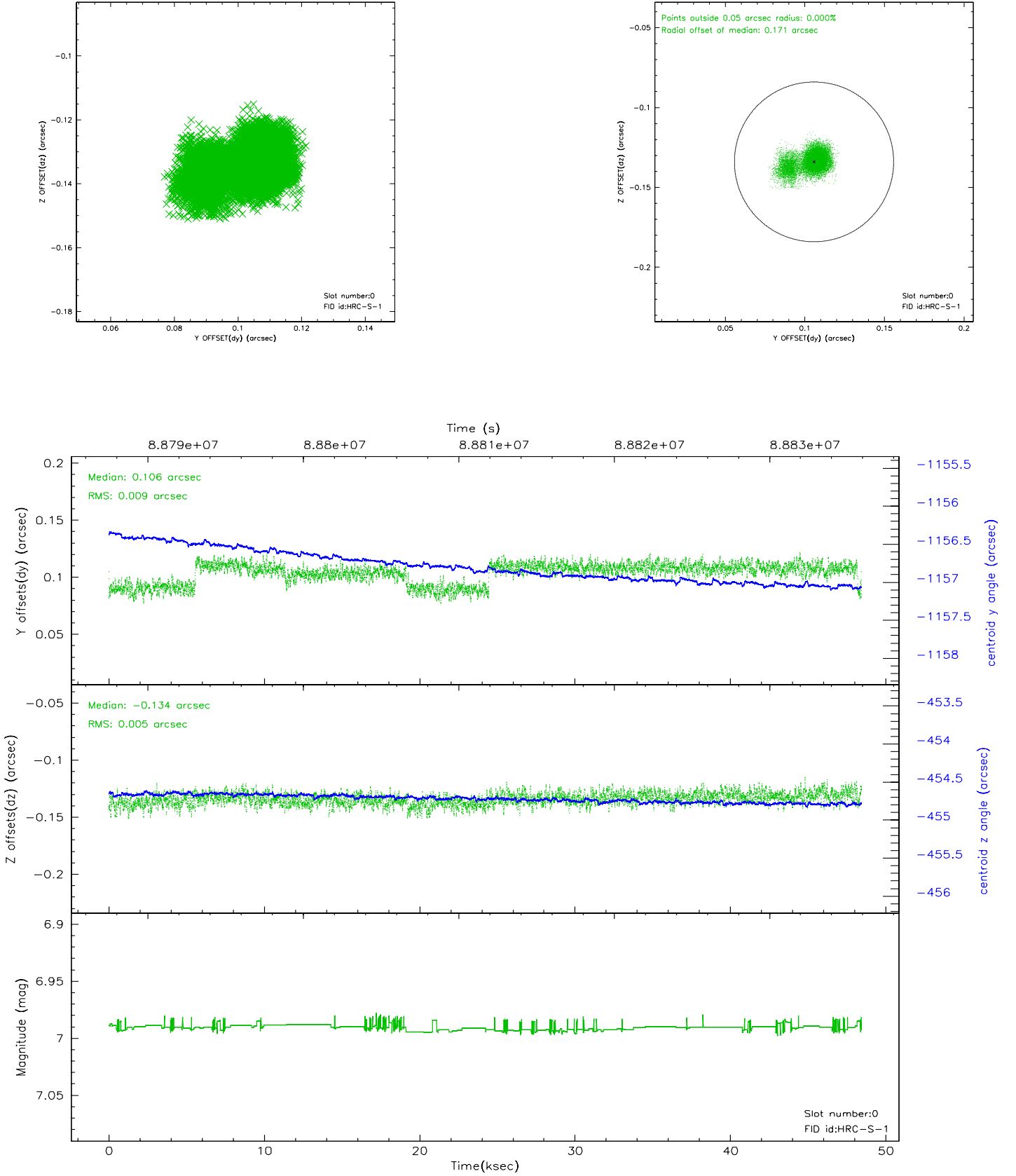


## 2.4.5 Slot 7

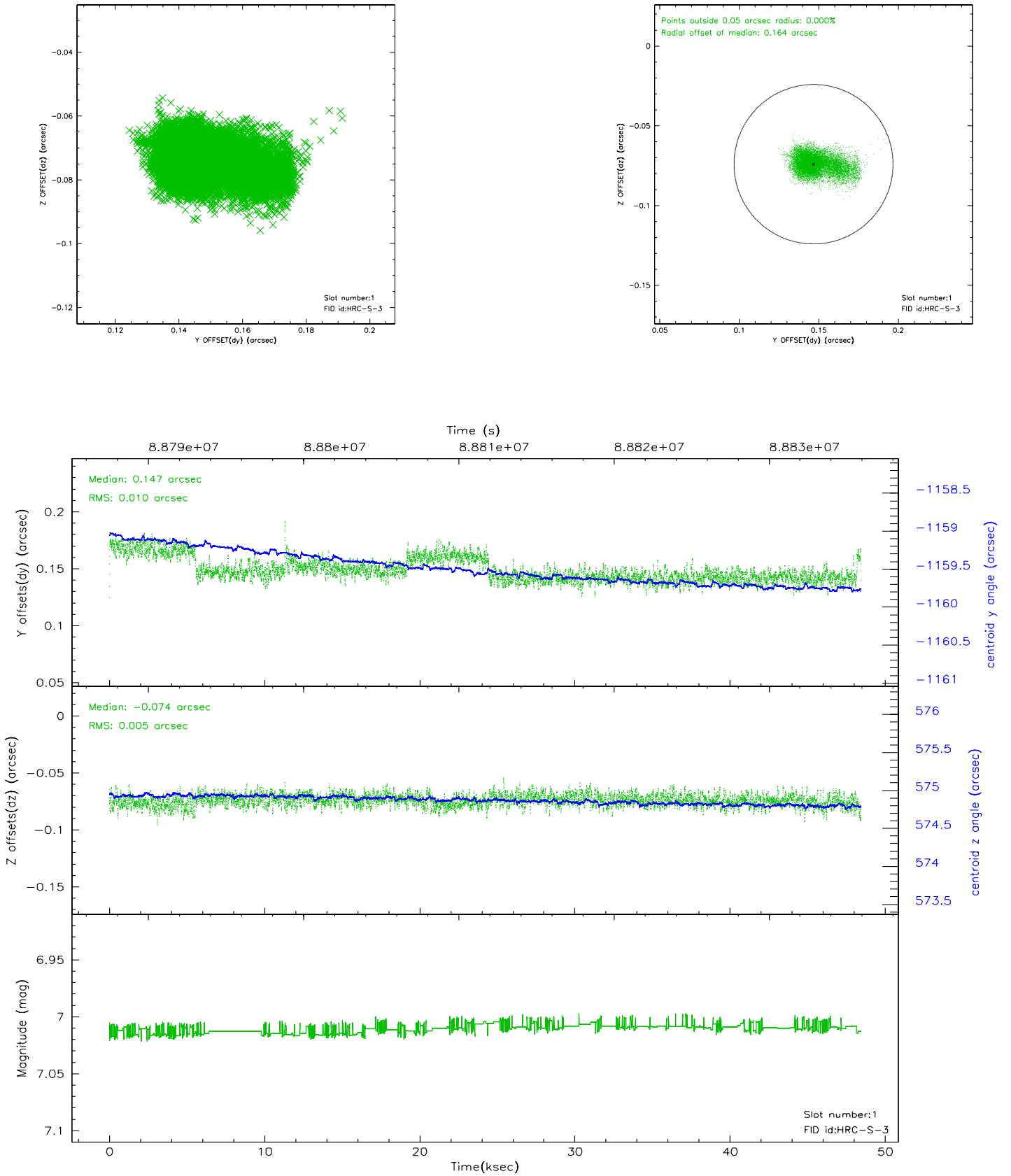


## 2.5 FID Slots

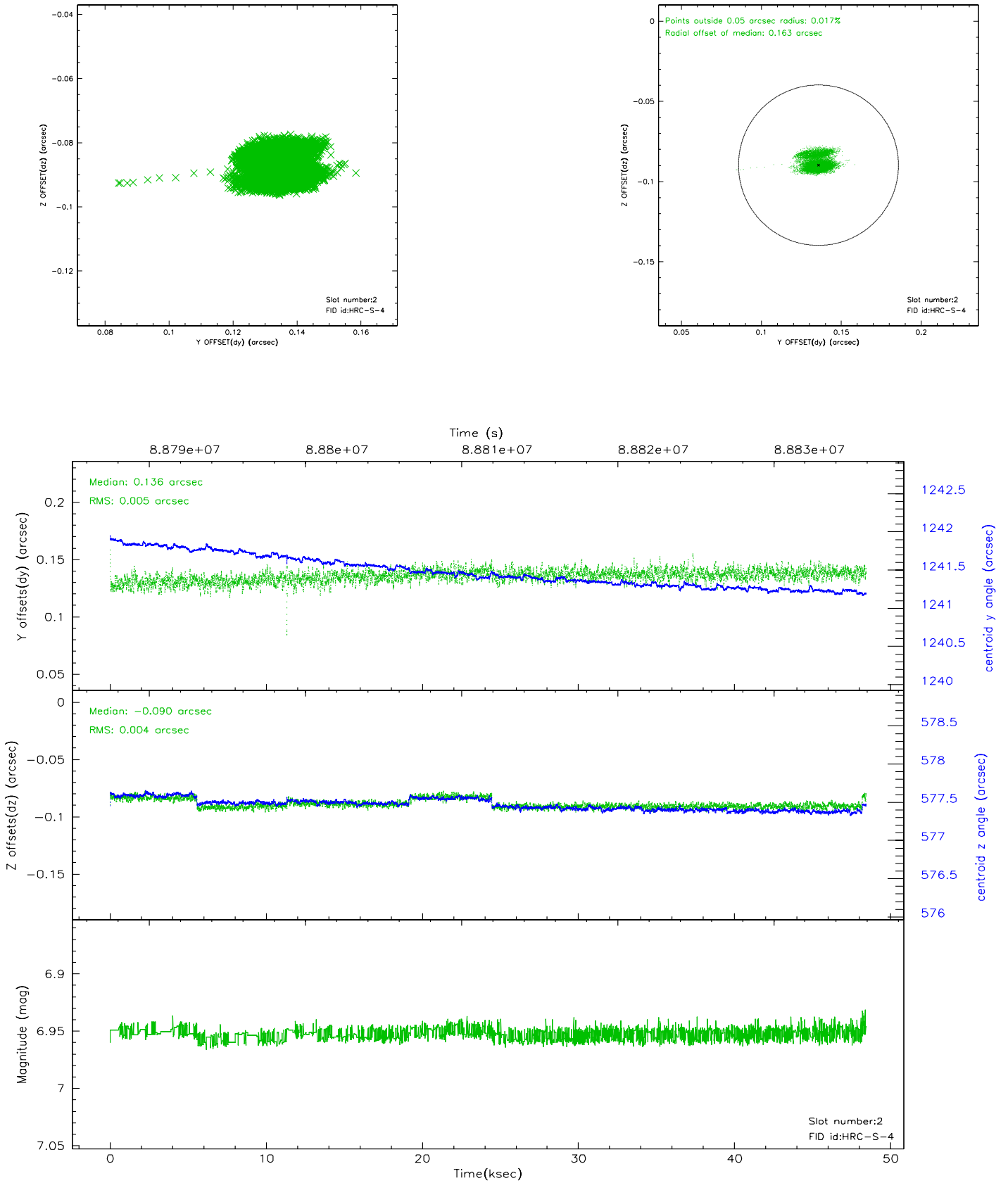
### 2.5.1 Slot 0



## 2.5.2 Slot 1

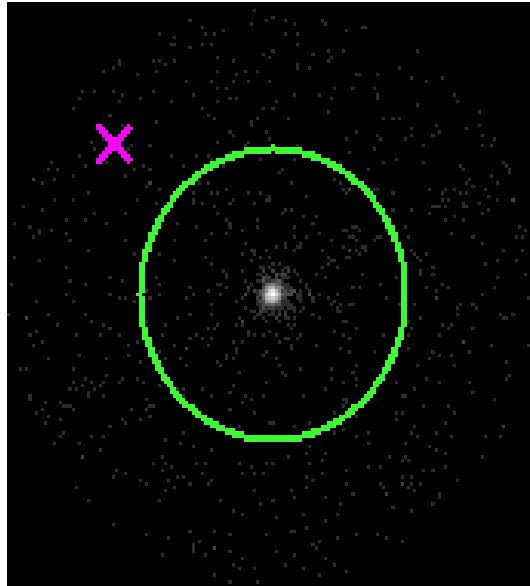


### 2.5.3 Slot 2



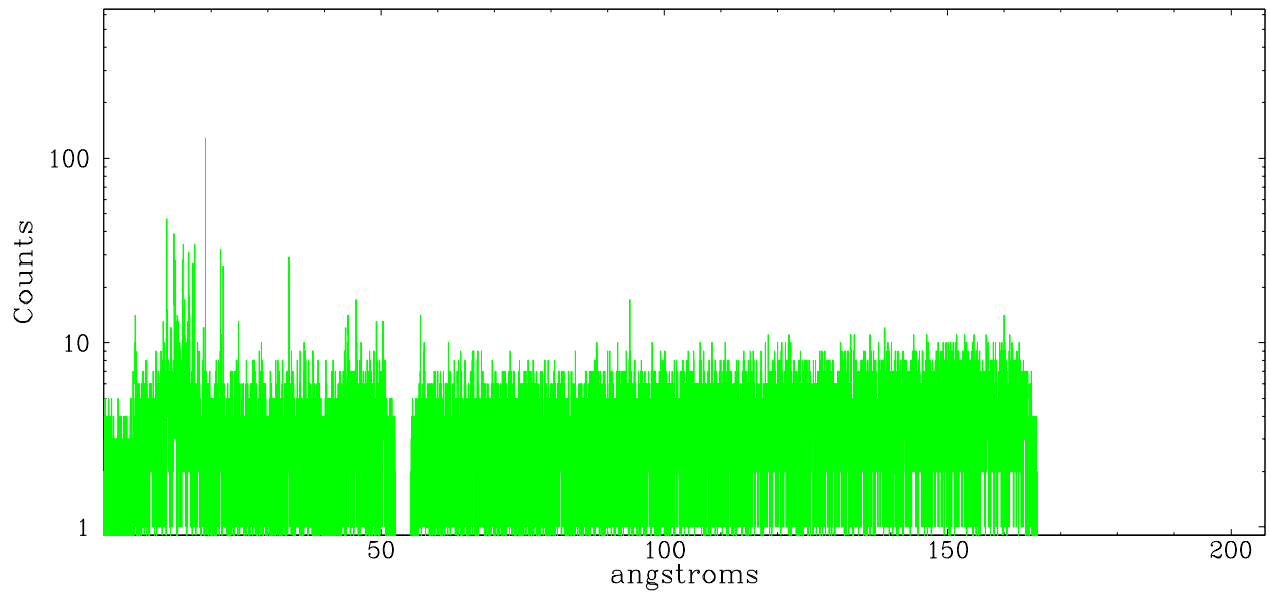
## 3 Gratings

### 3.1 LETG Arm

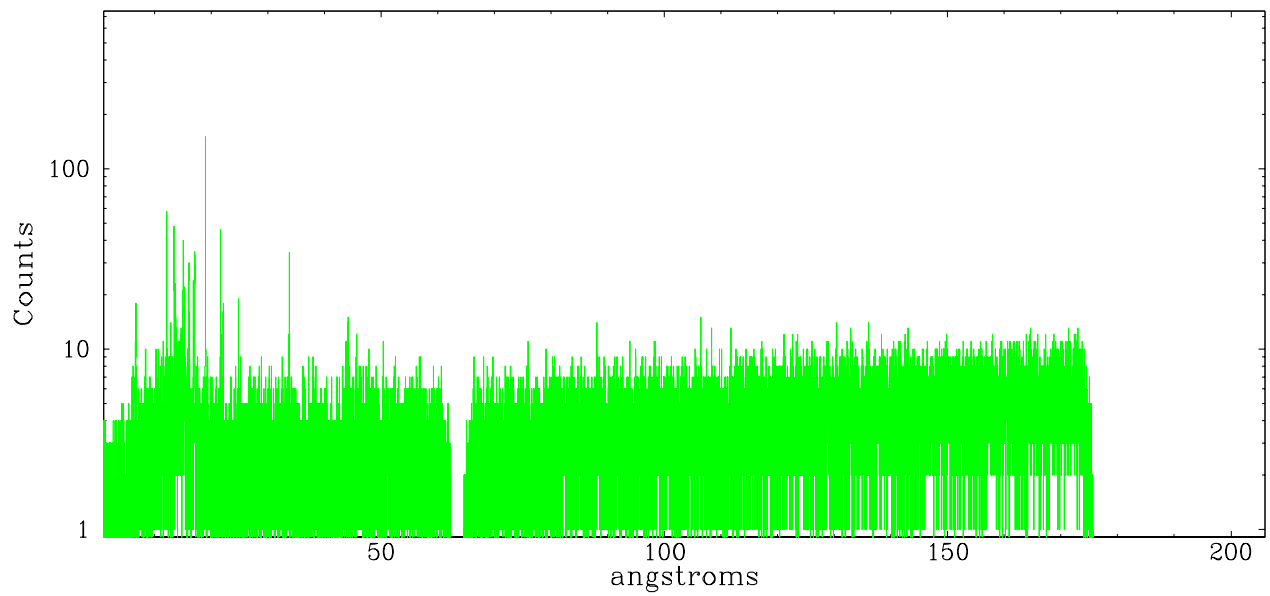


LETG Zero Order

leg order  $-1$



leg order  $+1$



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.414

## A.2 Comments

The last 10 ksec of this observation have an elevated count rate due to a high radiation environment.