

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5555 - L2 Version 003  
Chandra X-Ray Center

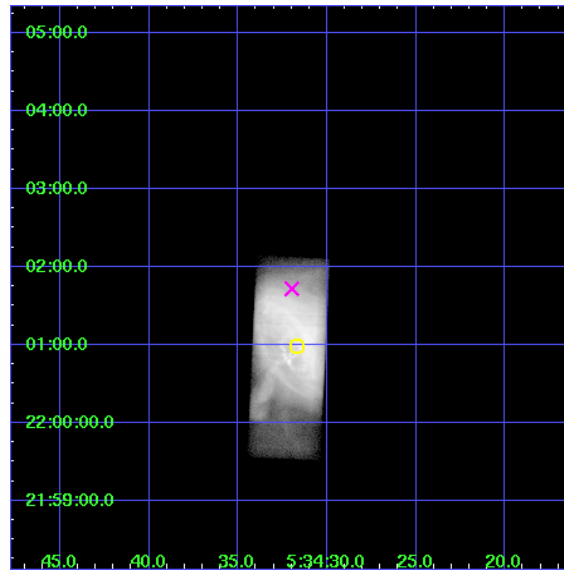
L2 Processing Date : Mar 23 2006

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# 1 Front

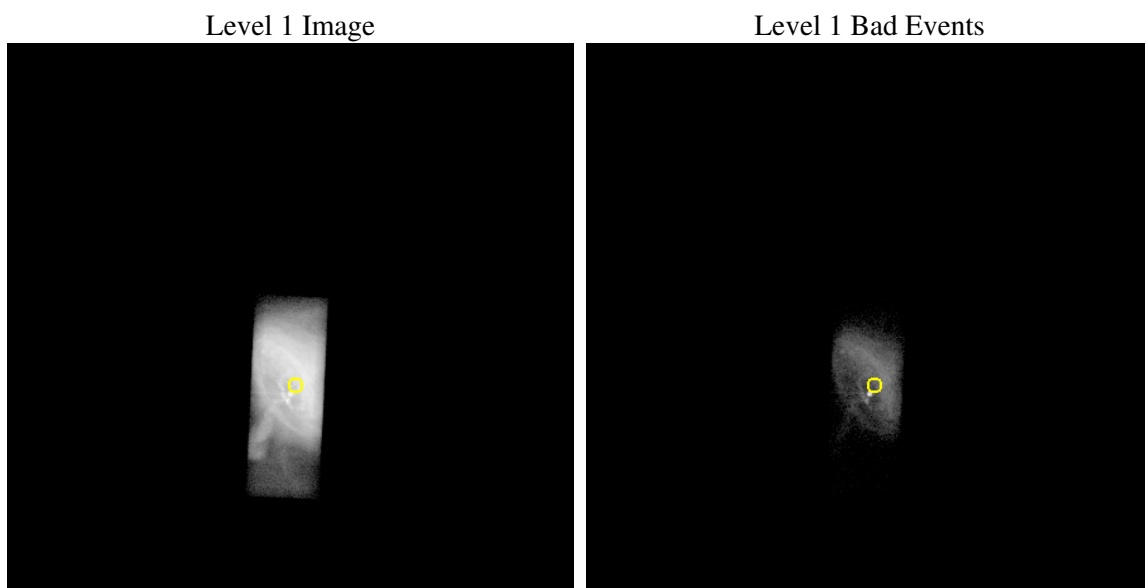
seq_num	500544
obs_id	5555
title	Monitoring of the Relativistic Magnetohydrodynamic Shock in the Crab Nebula
observer	Dr Koji Mori
object	The Crab Nebula
dtcycle	0
cycle	P
ra_targ	83.632083
dec_targ	22.016472
ra_nom	83.633292558294
dec_nom	22.028865273059
roll_nom	92.724931863987
revision	3
ontime	9150.6003636122
livetime	8049.4373360417
ontime7	9150.6003636122
l2events	2236857



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-23T23:54:55
revision	3

sched_exp_time	9000.000000
ontime	9816.7326306403
ontime7	9816.7326306403
l1events	2386572

### 2.1.3 Events

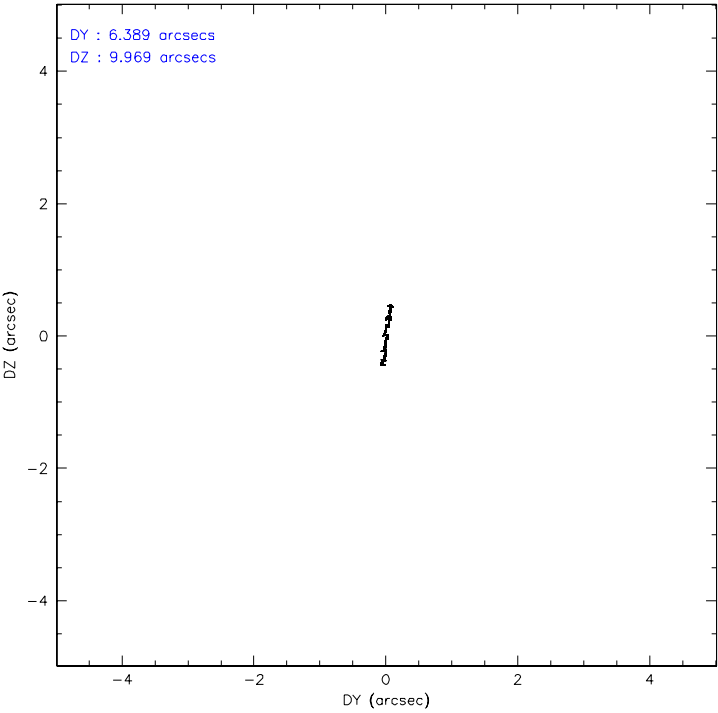
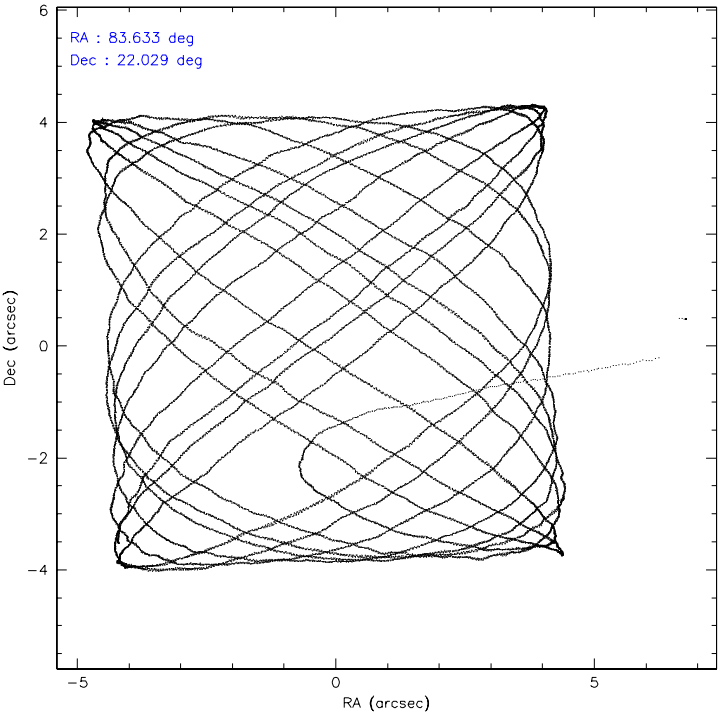
	<b>ccd 7</b>
level 1 events	2386572
rejected events	114712
rejected %	4%

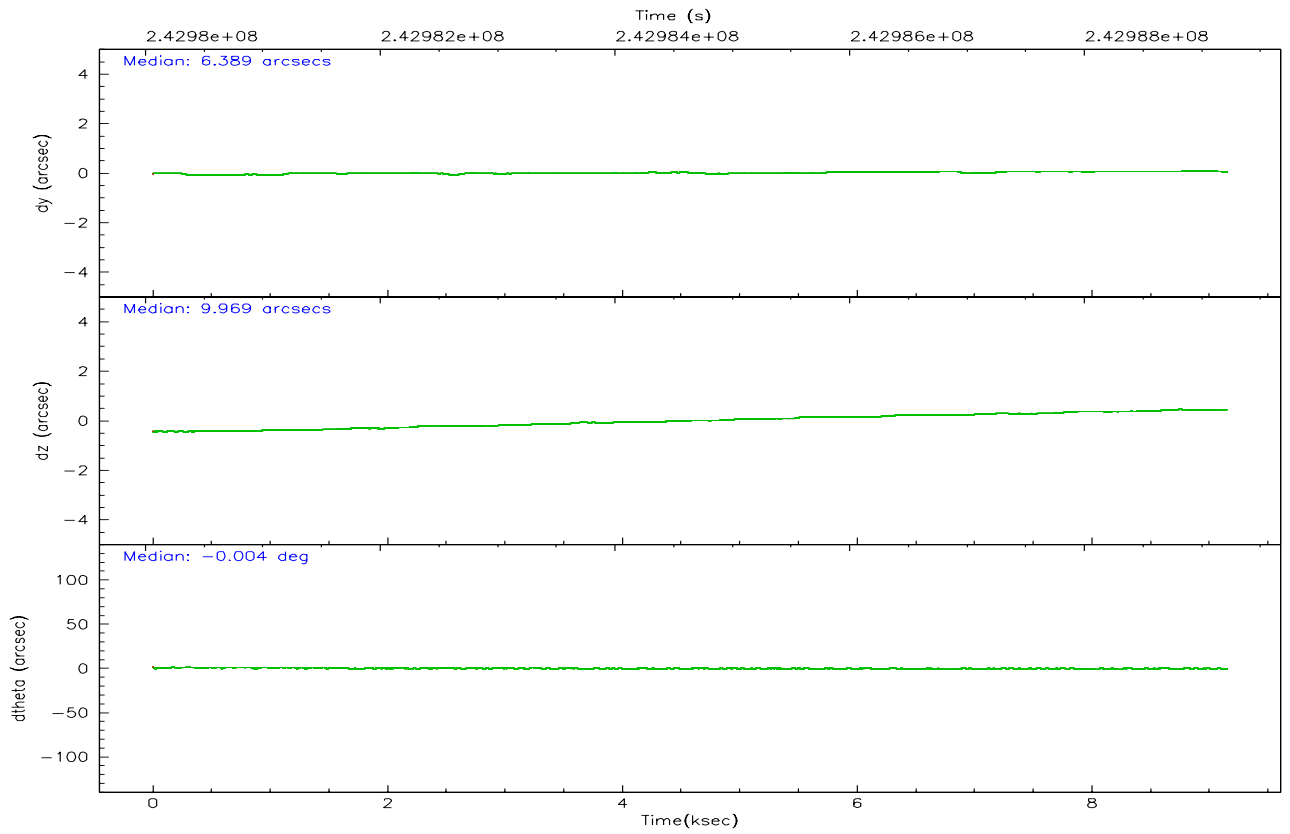
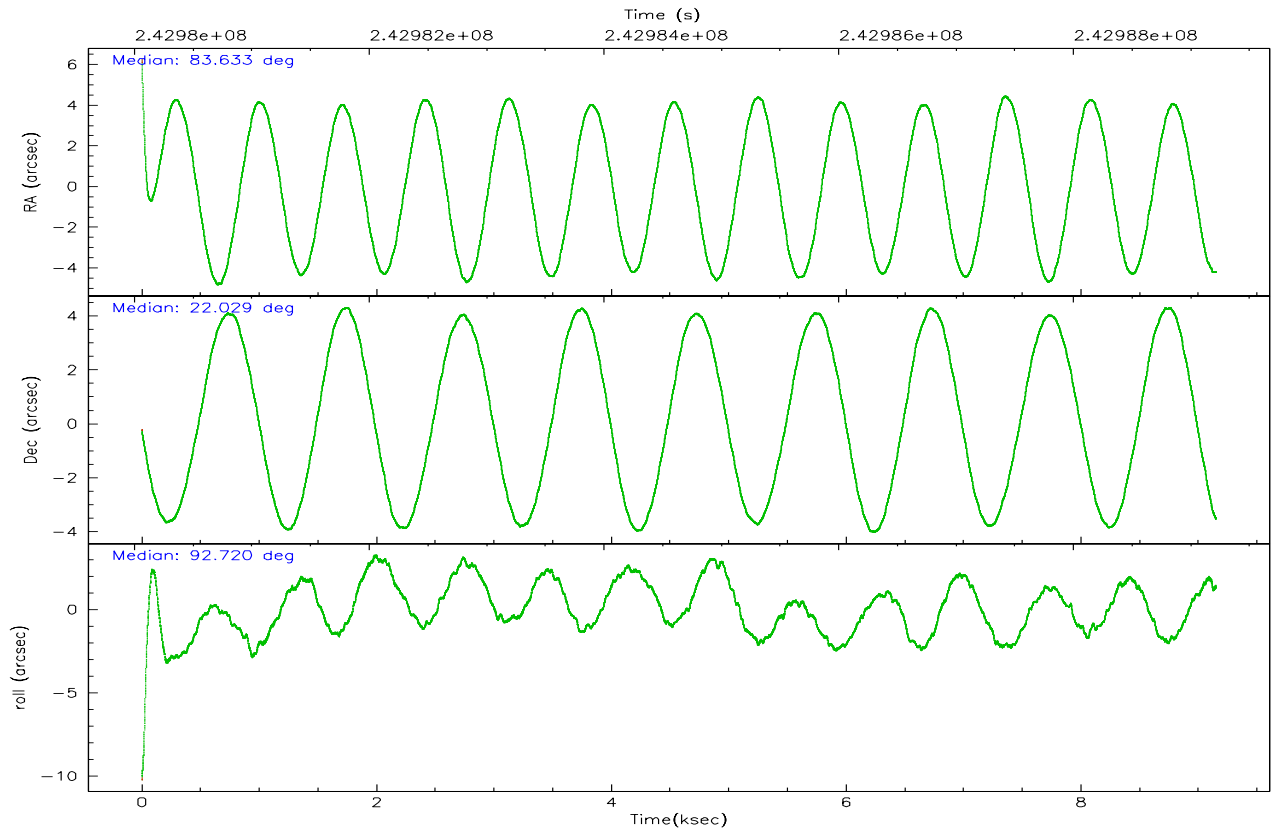
	<b>ccd 7</b>
grade 0 events	463329
	19%
grade 1 events	8569
	0%
grade 2 events	585563
	24%
grade 3 events	261319
	10%
grade 4 events	251272
	10%
grade 5 events	35928
	1%
grade 6 events	738247
	30%
grade 7 events	42345
	1%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	83.649500	83.63329255829365	Subarray start row	127	127
Pointing Dec	22.006182	22.02886527305914	Subarray row count	101	101
Pointing Roll	92.562239	92.72493186398725	Alternating exposures requested	N	N
Window start time	242265664.184000	242265664.184000	Primary exposure time	0.000000	0.3
Window stop time	242870464.184000	242870464.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1344861297048			
SIM translation stage offset (mm)	-8	-7.998036453302973			
Observation start time	242980217.184000	242979224.87851			
Observation start date	2005-09-13T06:29:13	2005-09-13T06:13:44			
Observation end time	242989217.184000	242990221.59151			
Observation end date	2005-09-13T08:59:13	2005-09-13T09:17:01			
Read mode	TIMED	TIMED			

2.3 Aspect





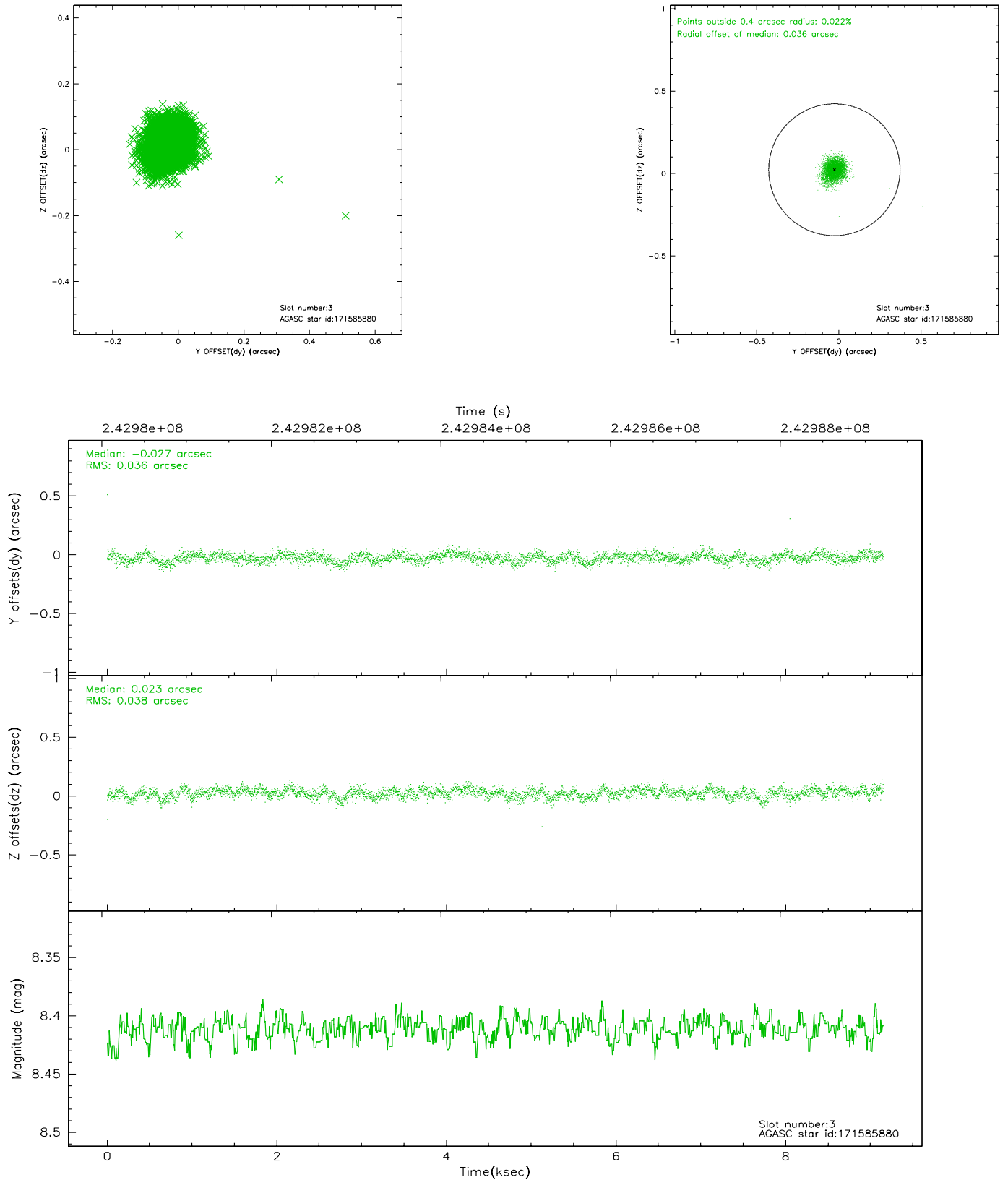
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	2233	-0.078	-0.076	0.007	0.013	0.000000	0.000000	-758.64	-1896.06
1	FID	ACIS-S-4	7.18	2233	0.110	0.058	0.006	0.010	0.000000	0.000000	2154.56	11.86
2	FID	ACIS-S-5	7.22	2233	-0.063	0.026	0.008	0.012	0.000000	0.000000	-1810.70	6.18
3	GUIDE	171585880	8.41	4462	-0.027	0.023	0.054	0.089	83.676260	22.176319	608.23	-116.19
4	GUIDE	171586032	8.93	4464	-0.034	0.060	0.063	0.102	83.950197	22.083225	233.75	-1014.24
5	GUIDE	171597832	9.16	4462	0.312	-0.265	0.078	0.127	83.183230	21.366702	-2227.06	1664.13
6	GUIDE	171721904	9.19	4464	-0.073	0.118	0.079	0.131	84.272676	22.116922	309.54	-2093.52
7	GUIDE	243941560	8.29	4463	-0.176	0.065	0.064	0.102	83.733264	22.568598	2010.47	-368.63

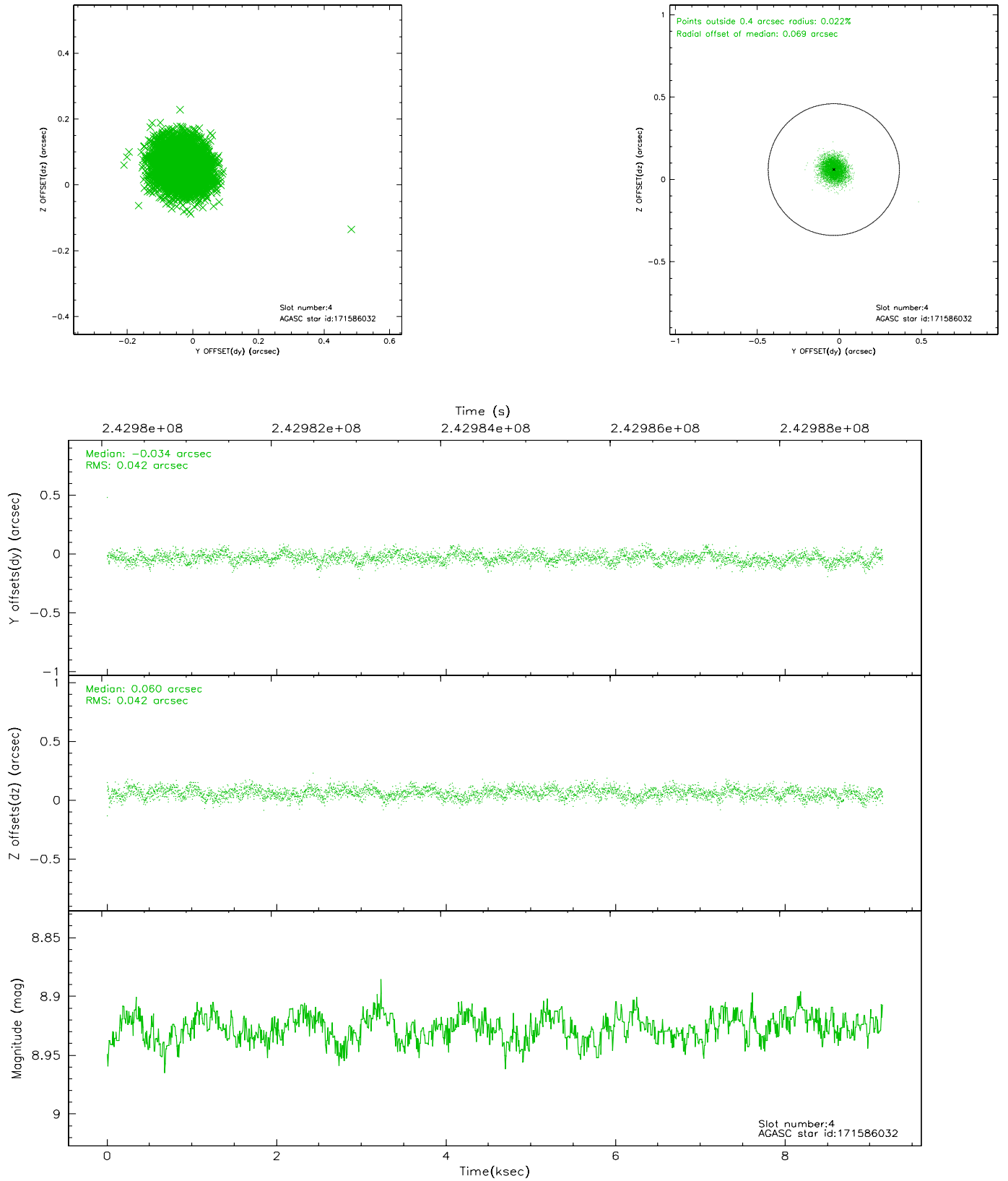


## 2.4 Star Slots

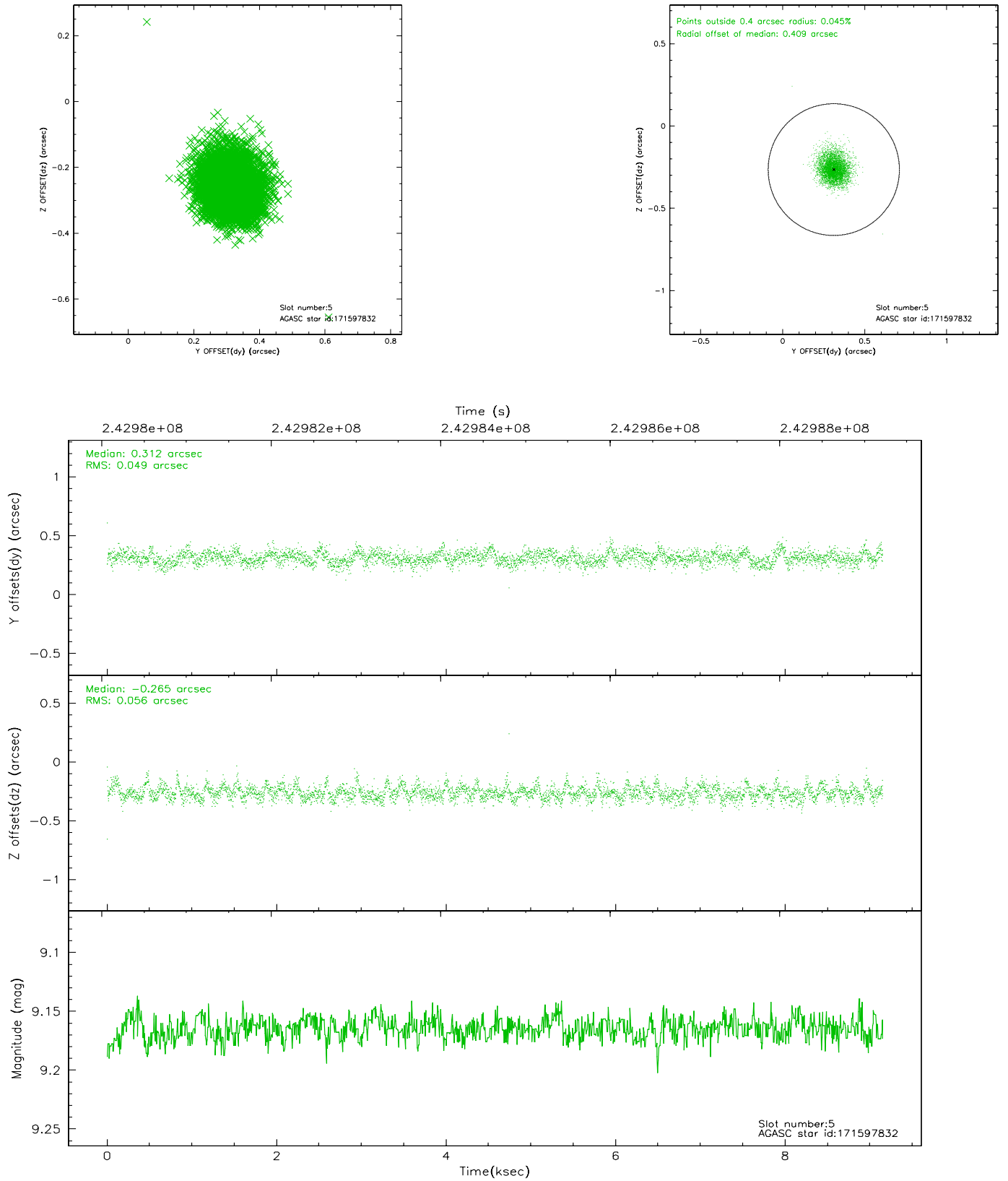
### 2.4.1 Slot 3



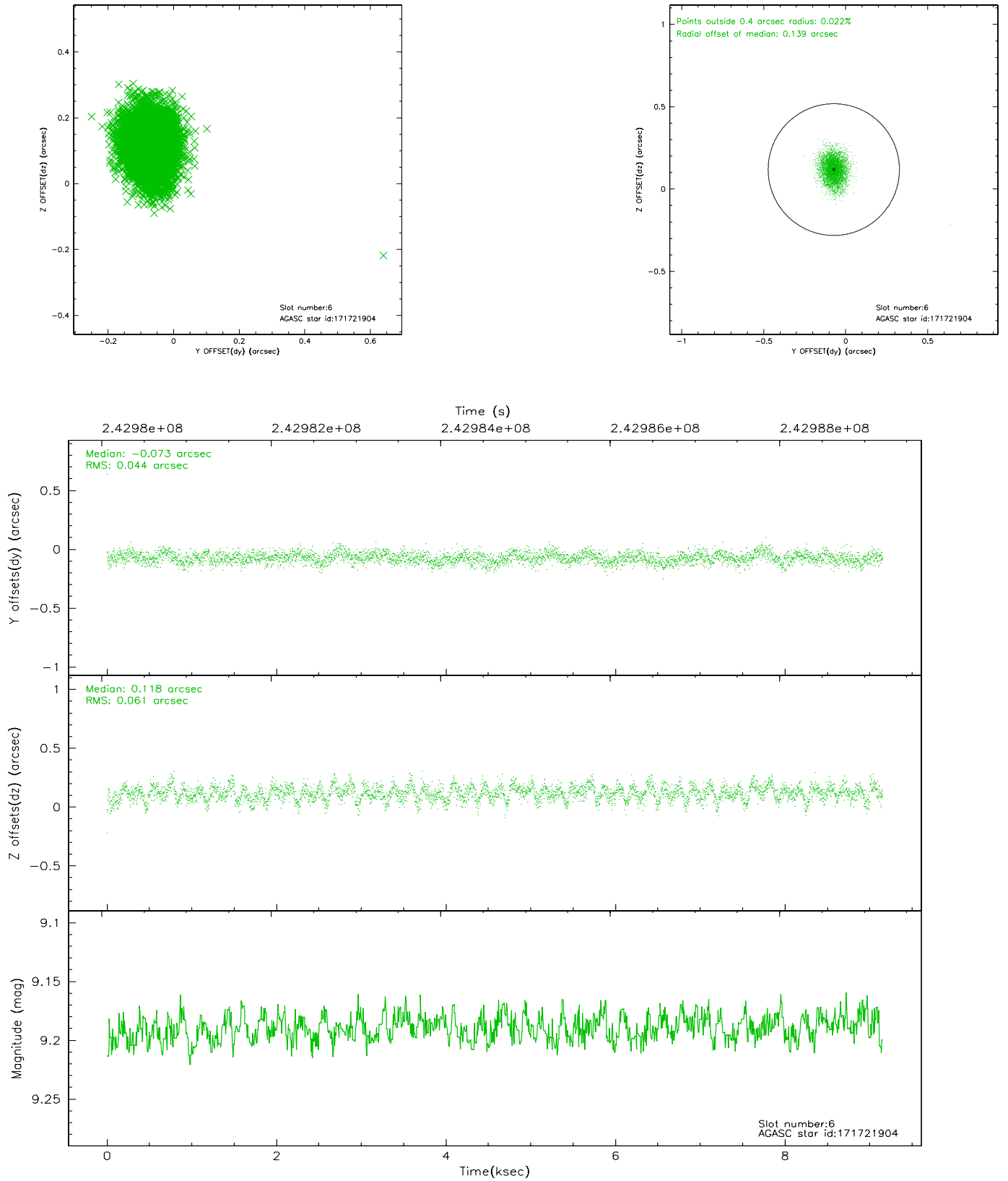
## 2.4.2 Slot 4



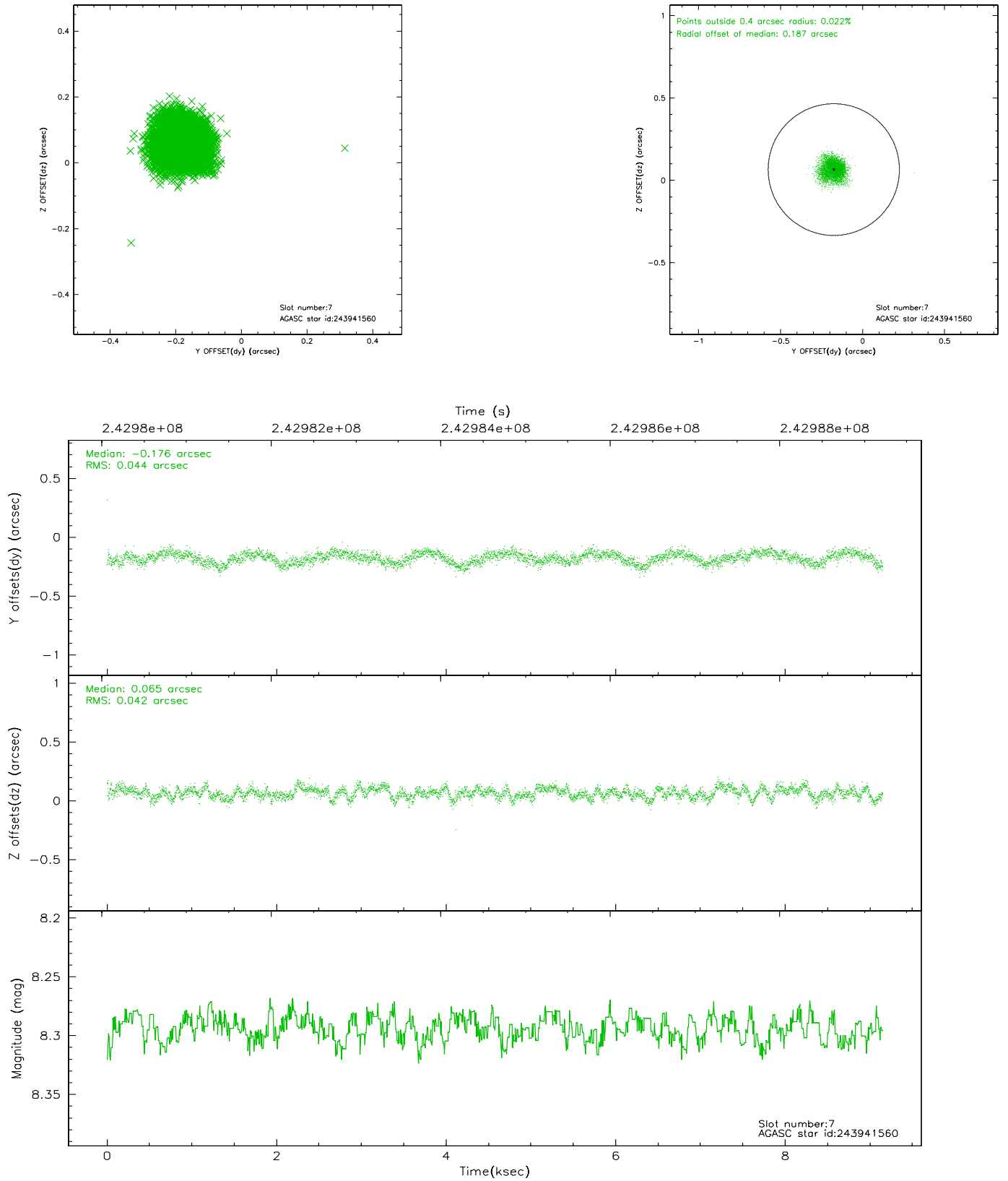
### 2.4.3 Slot 5



## 2.4.4 Slot 6

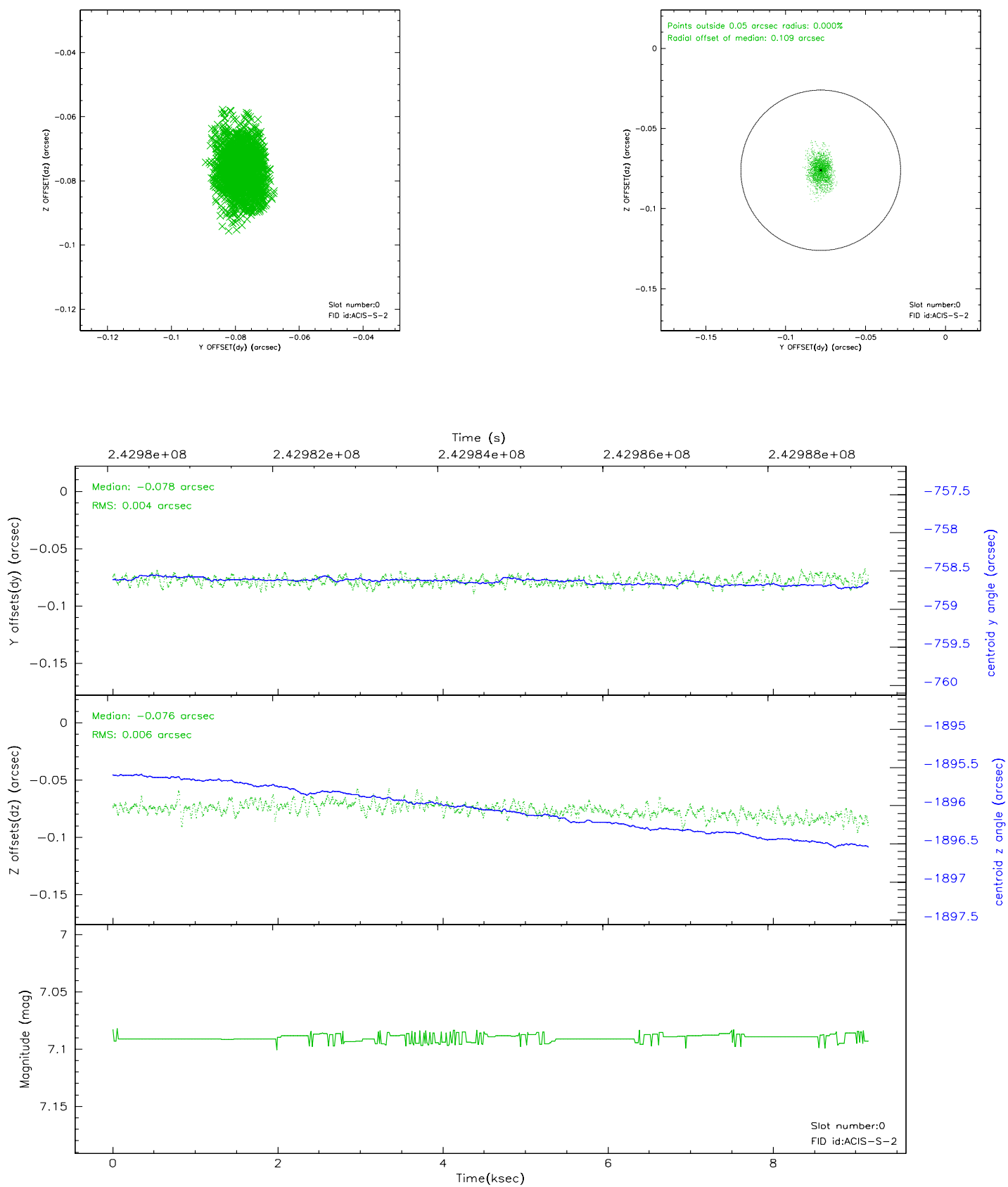


## 2.4.5 Slot 7

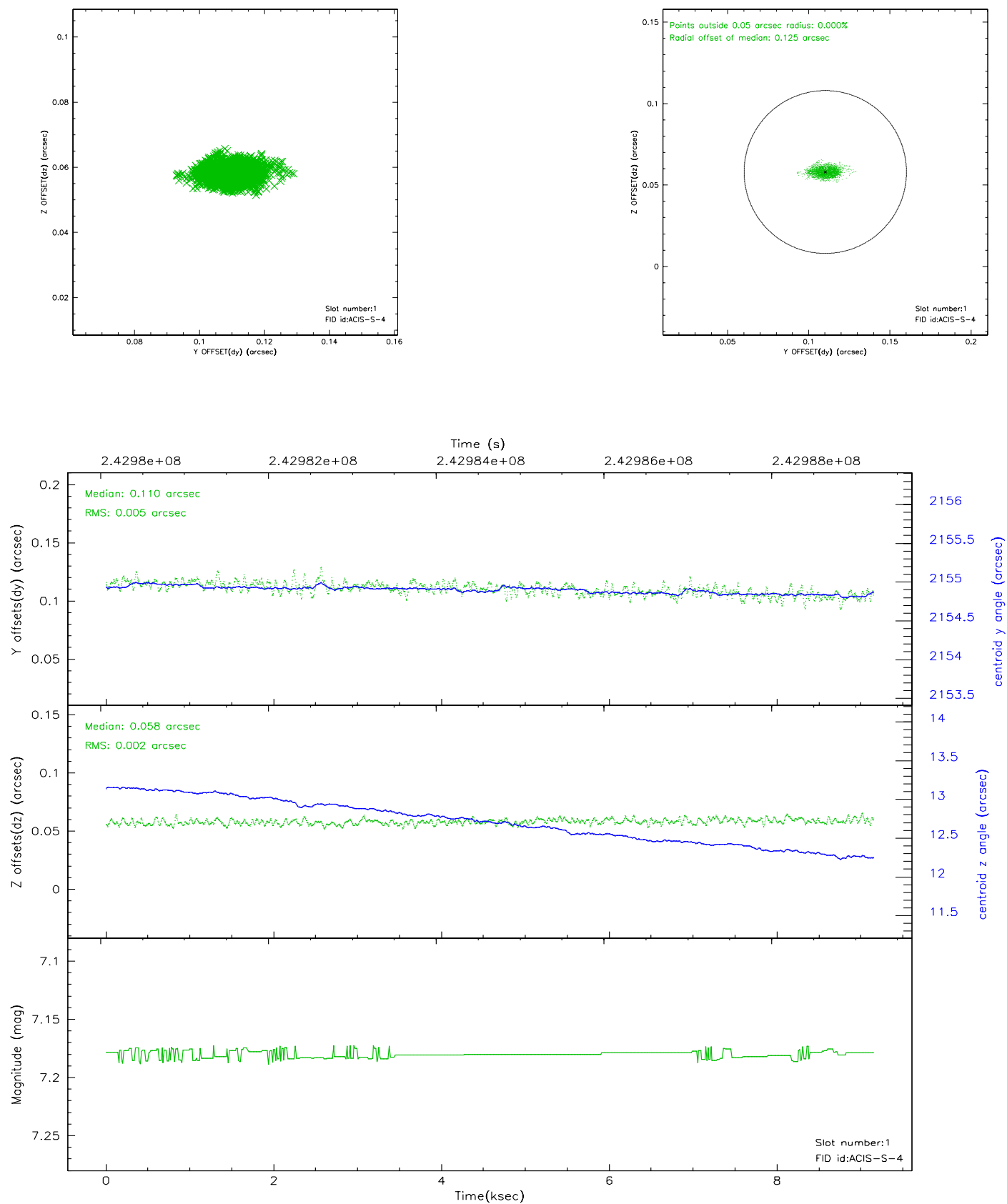


## 2.5 FID Slots

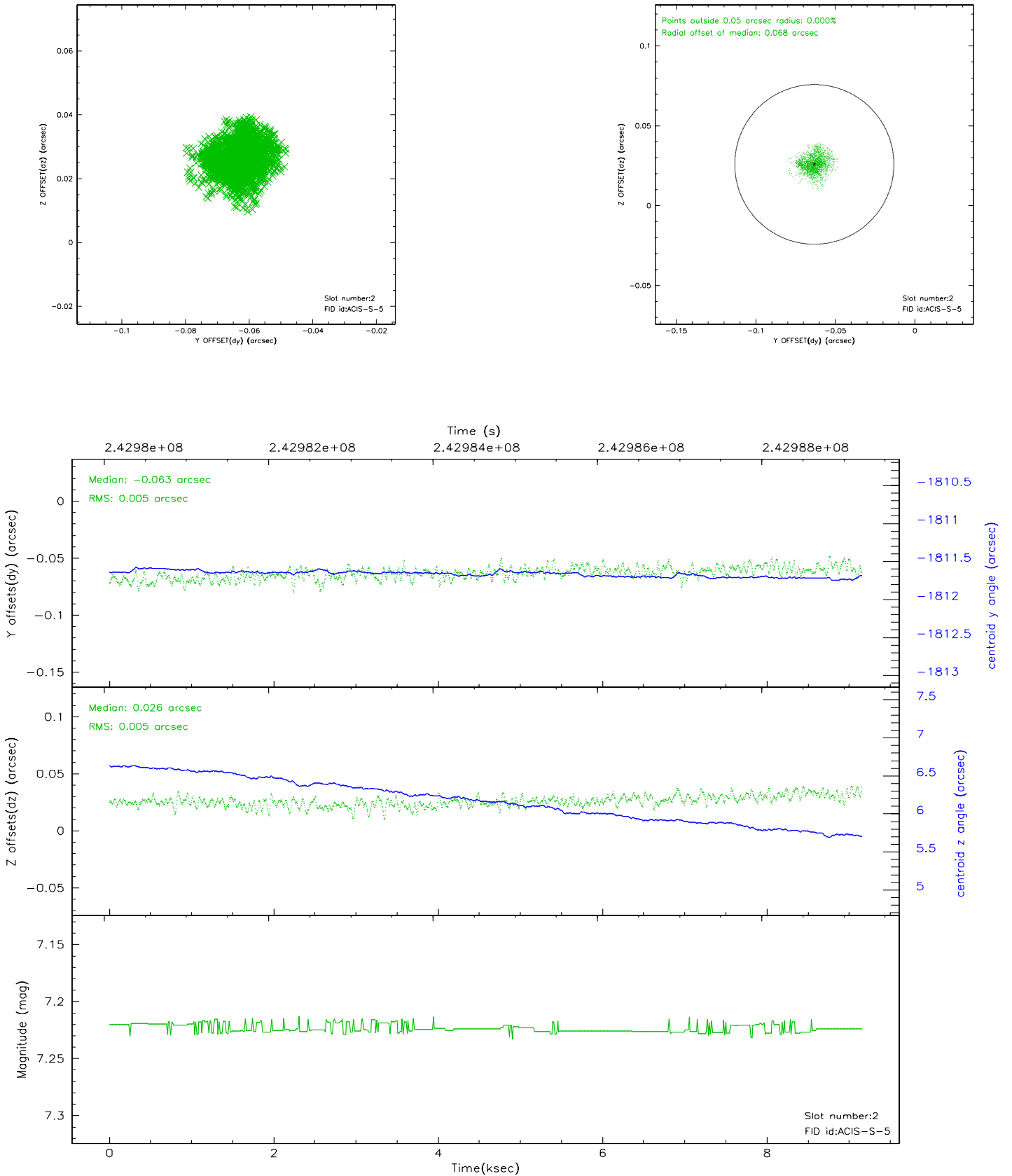
### 2.5.1 Slot 0



2.5.2 Slot 1



### 2.5.3 Slot 2



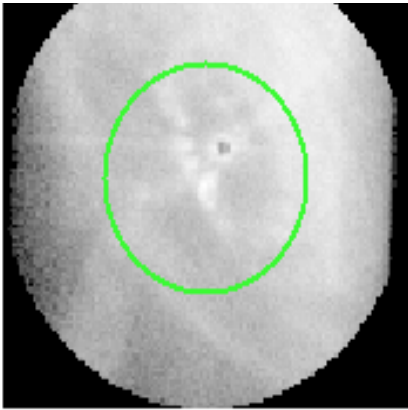


# 3 Gratings

## 3.1 HEG Arm



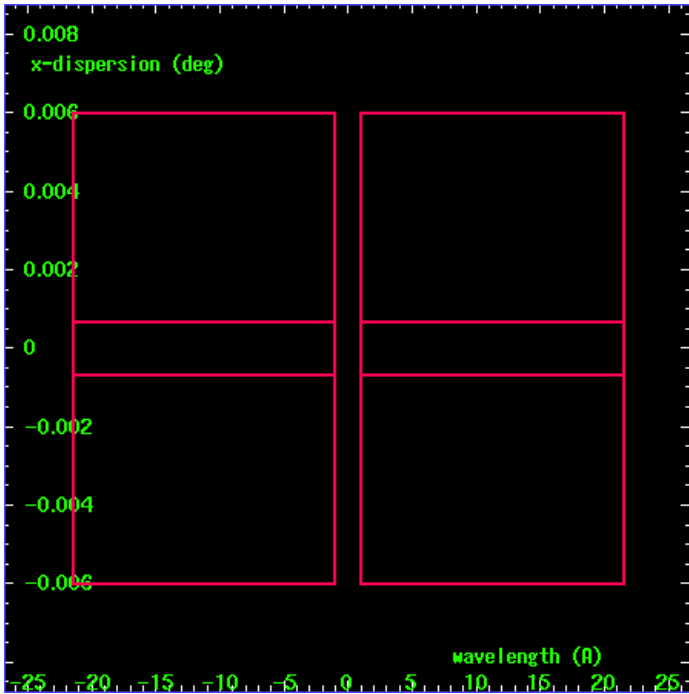
HEG Order Sort 123



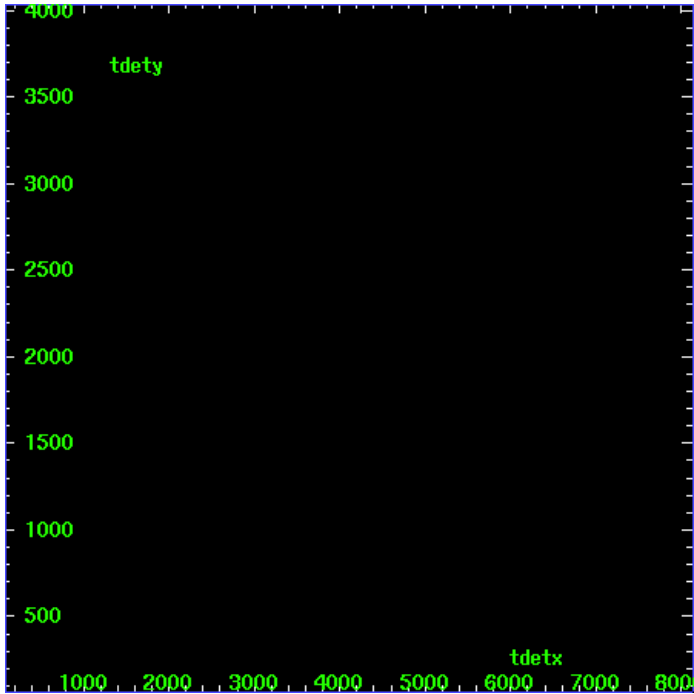
HEG Zero Order



HEG Order Sort ALL

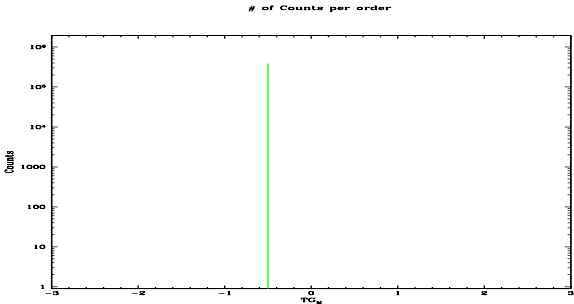


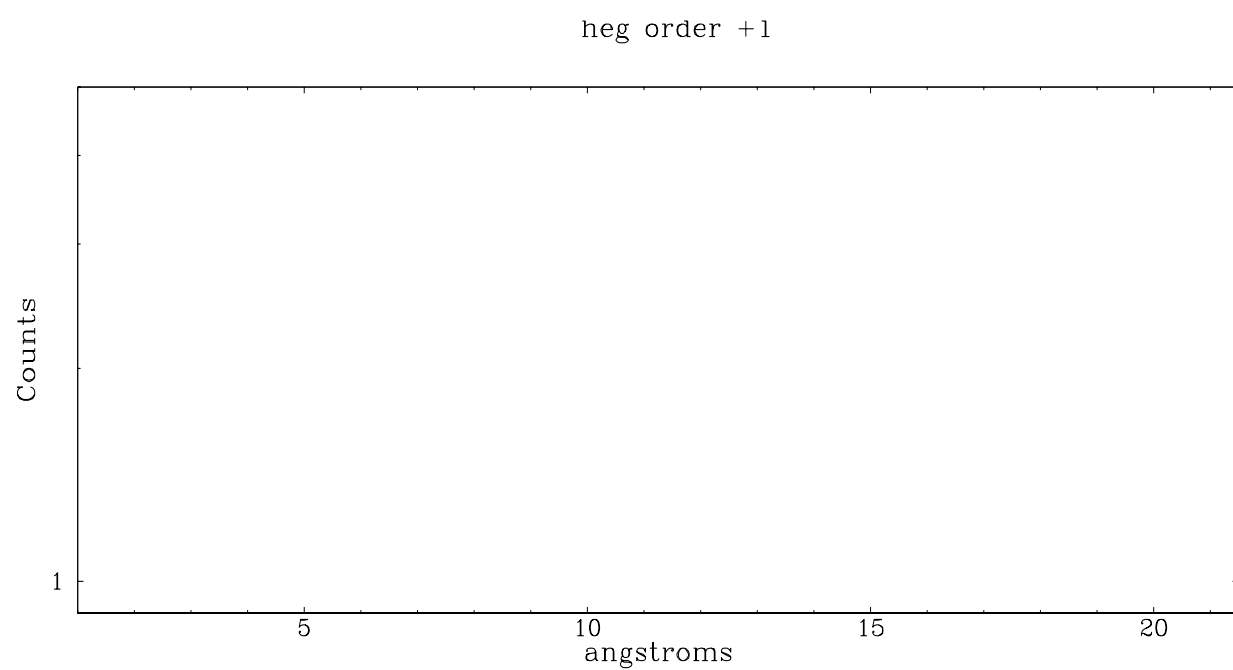
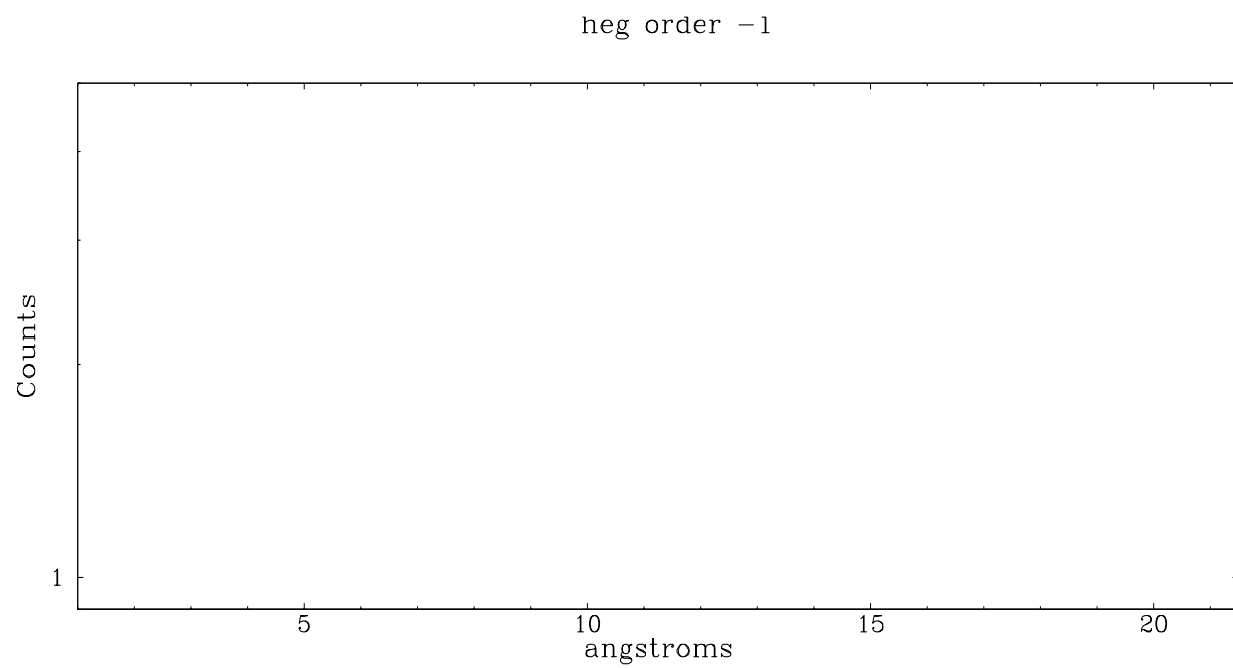
Spot Image HEG



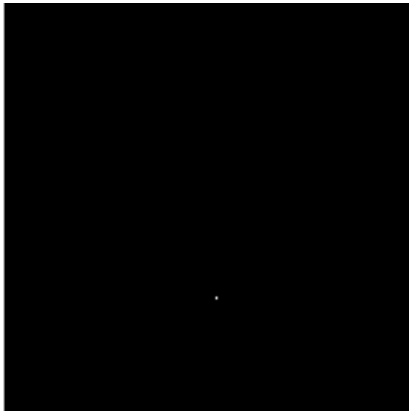
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	385093	0	0	0

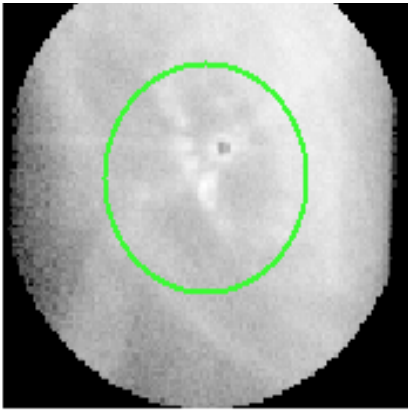




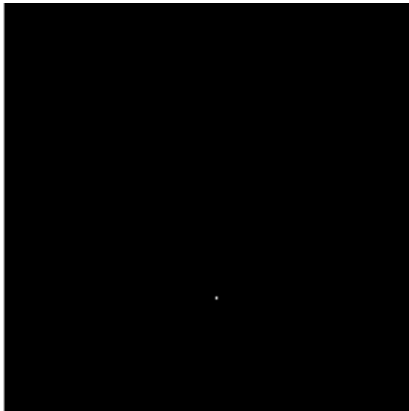
3.2 MEG Arm



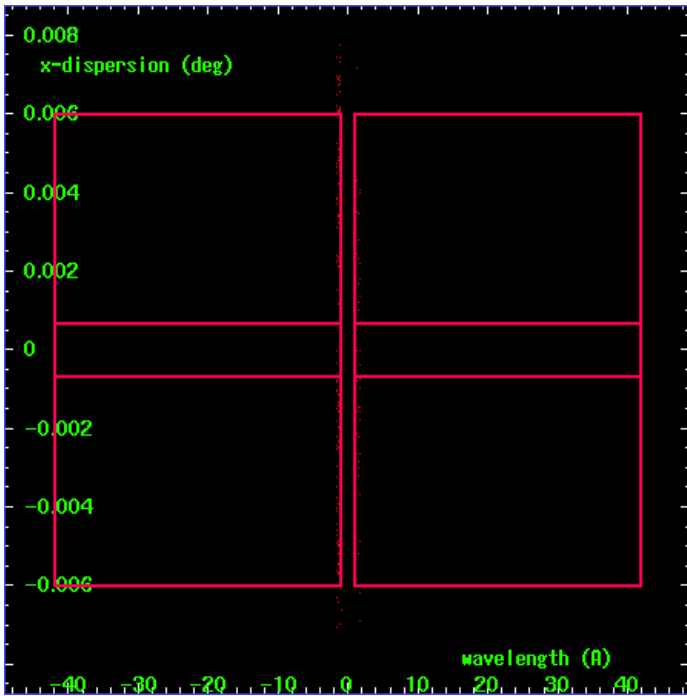
MEG Order Sort 123



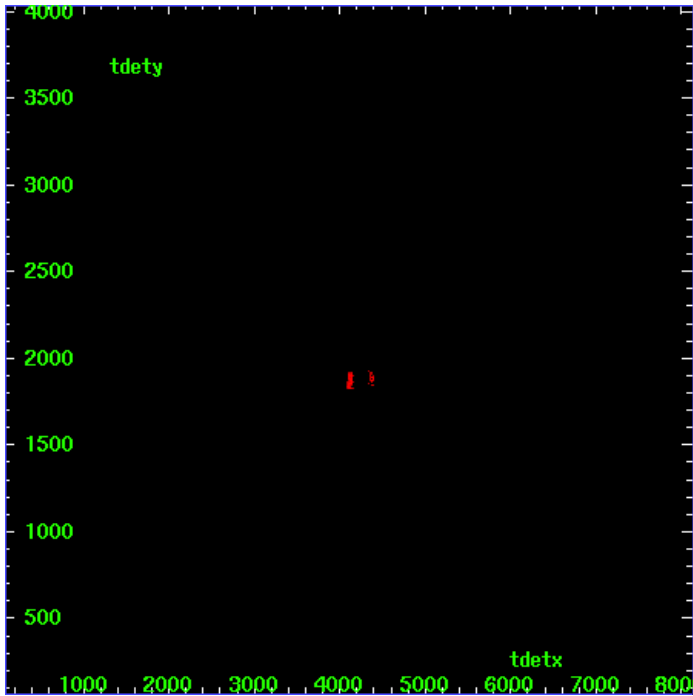
MEG Zero Order



MEG Order Sort ALL

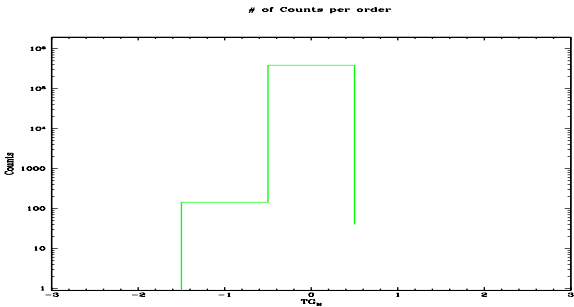


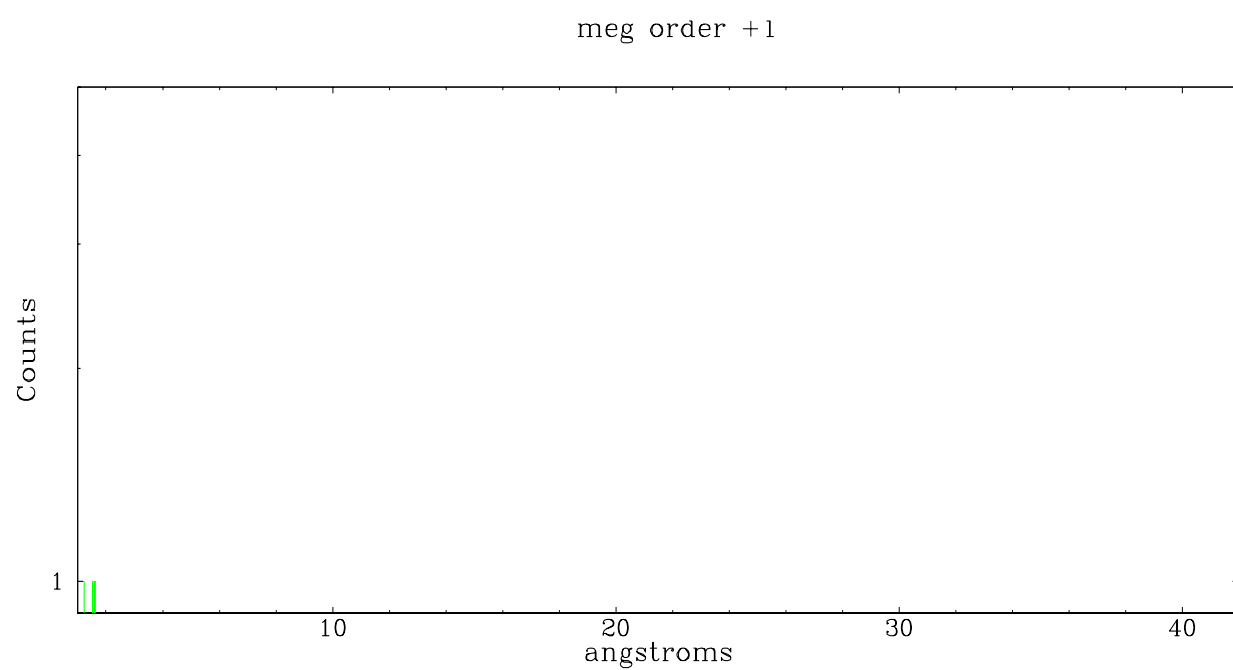
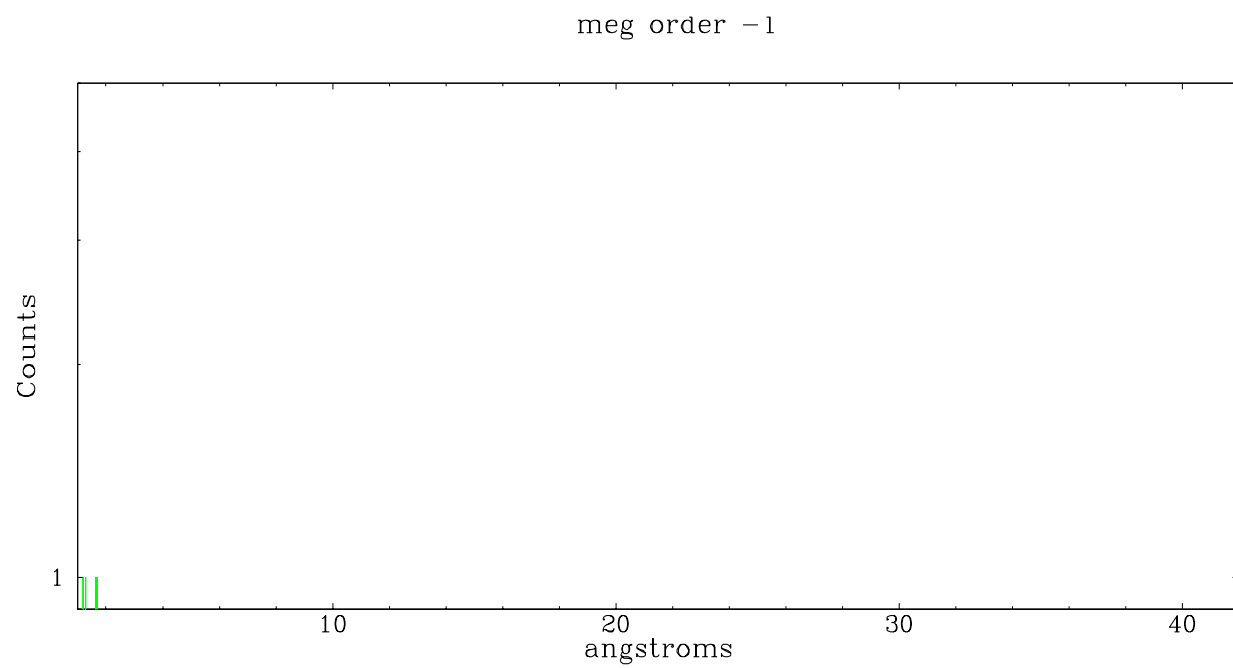
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	144	385093	40	0	0





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.1506

### A.2 Comments

Window constraint not met.