

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5558 - L2 Version 003
Chandra X-Ray Center

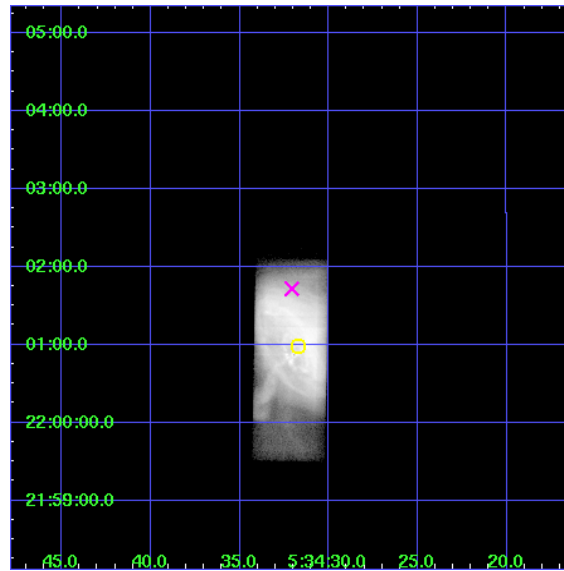
L2 Processing Date : Apr 4 2006

Contents

1	Front	2
2	OBI	3
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
3	Gratings	17
3.1	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

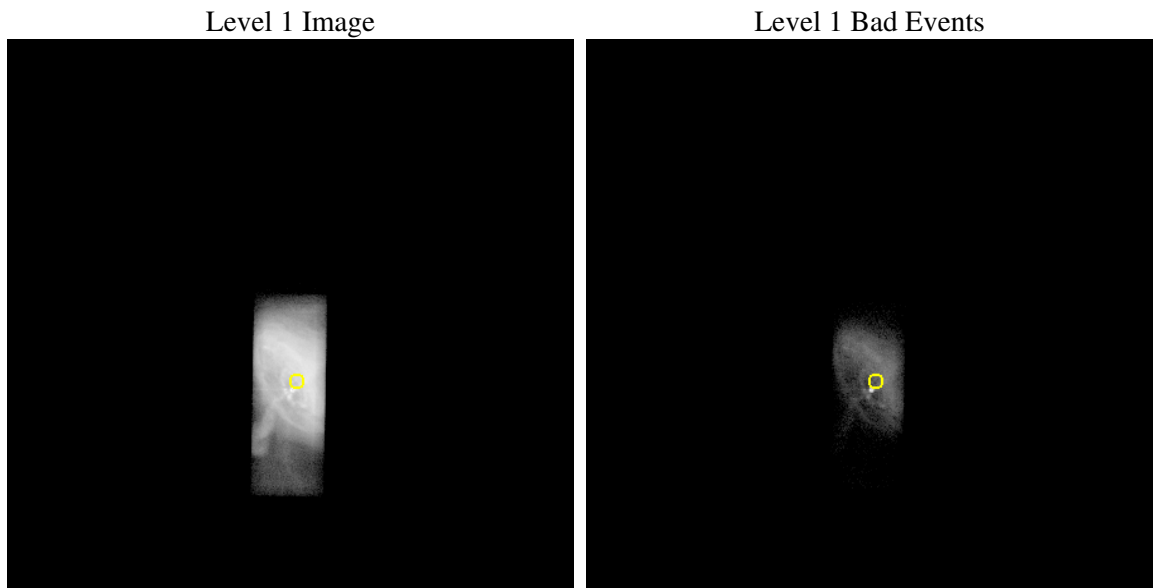
seq_num	500547
obs_id	5558
title	Monitoring of the Relativistic Magnetohydrodynamic Shock in the Crab Nebula
observer	Dr Koji Mori
object	The Crab Nebula
dtcycle	0
cycle	P
ra_targ	83.632083
dec_targ	22.016472
ra_nom	83.633680030751
dec_nom	22.028845843135
roll_nom	91.044915795742
revision	3
ontime	10173.600404263
livetime	8949.3318123351
ontime7	10173.600404263
l2events	2482763



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-04T19:35:16
revision	3

sched_exp_time	10000.000000
ontime	11612.642225832
ontime7	11612.642225832
l1events	2648392

2.1.3 Events

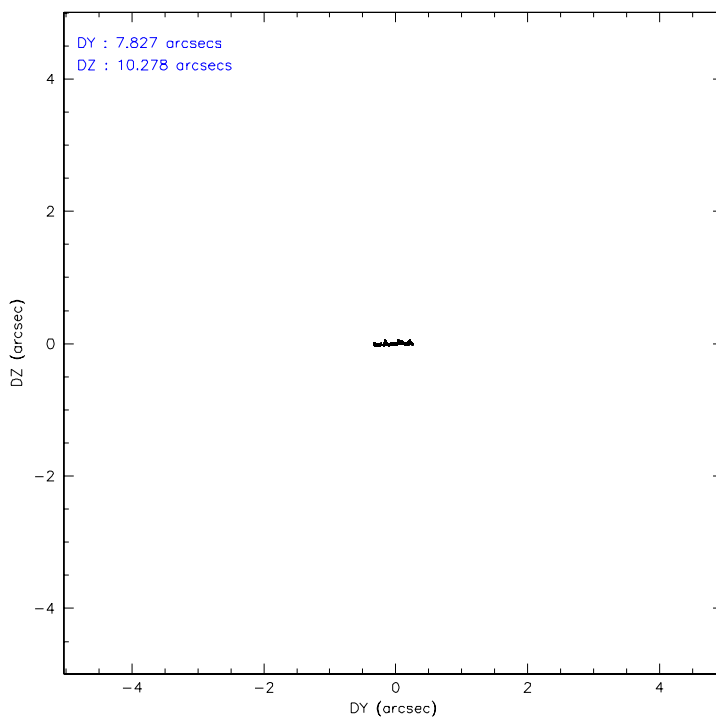
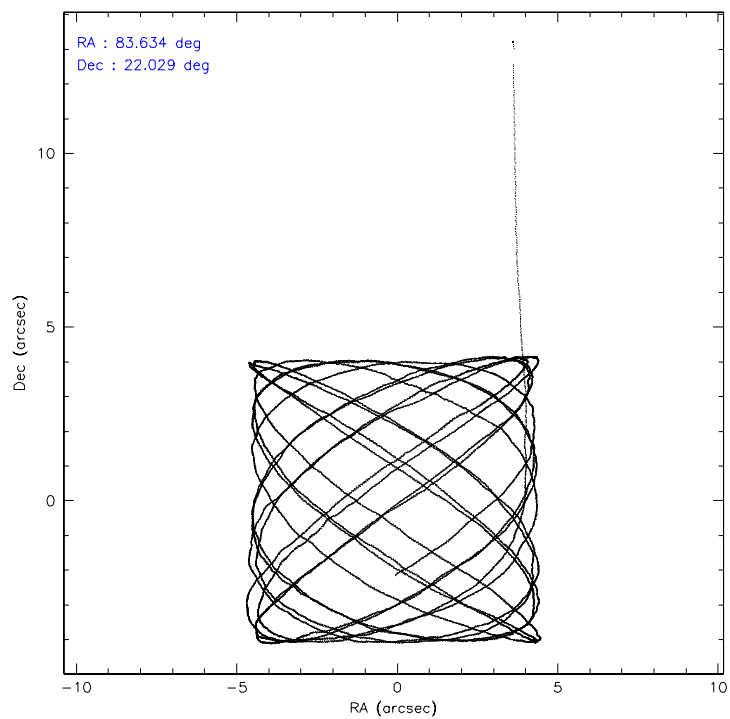
	ccd 7
level 1 events	2648392
rejected events	126817
rejected %	4%

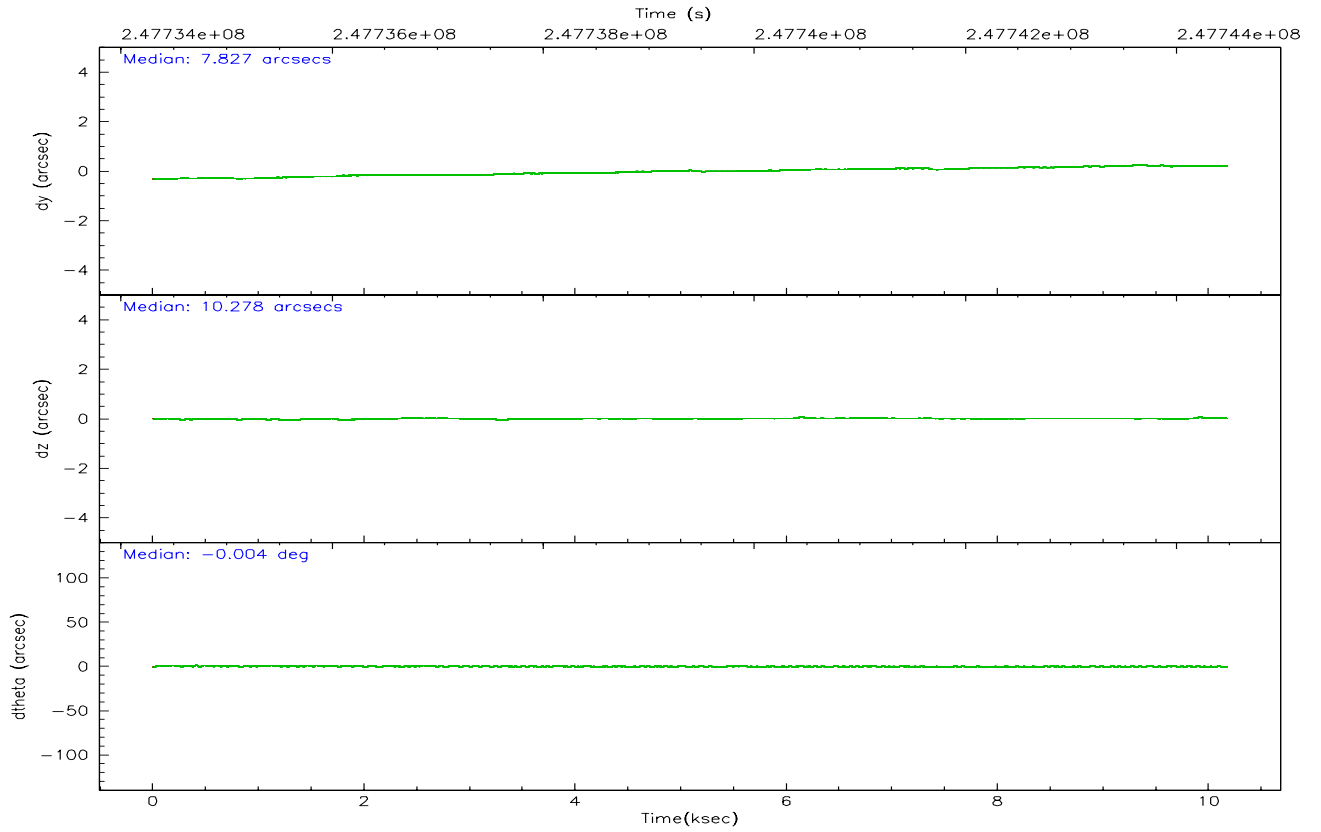
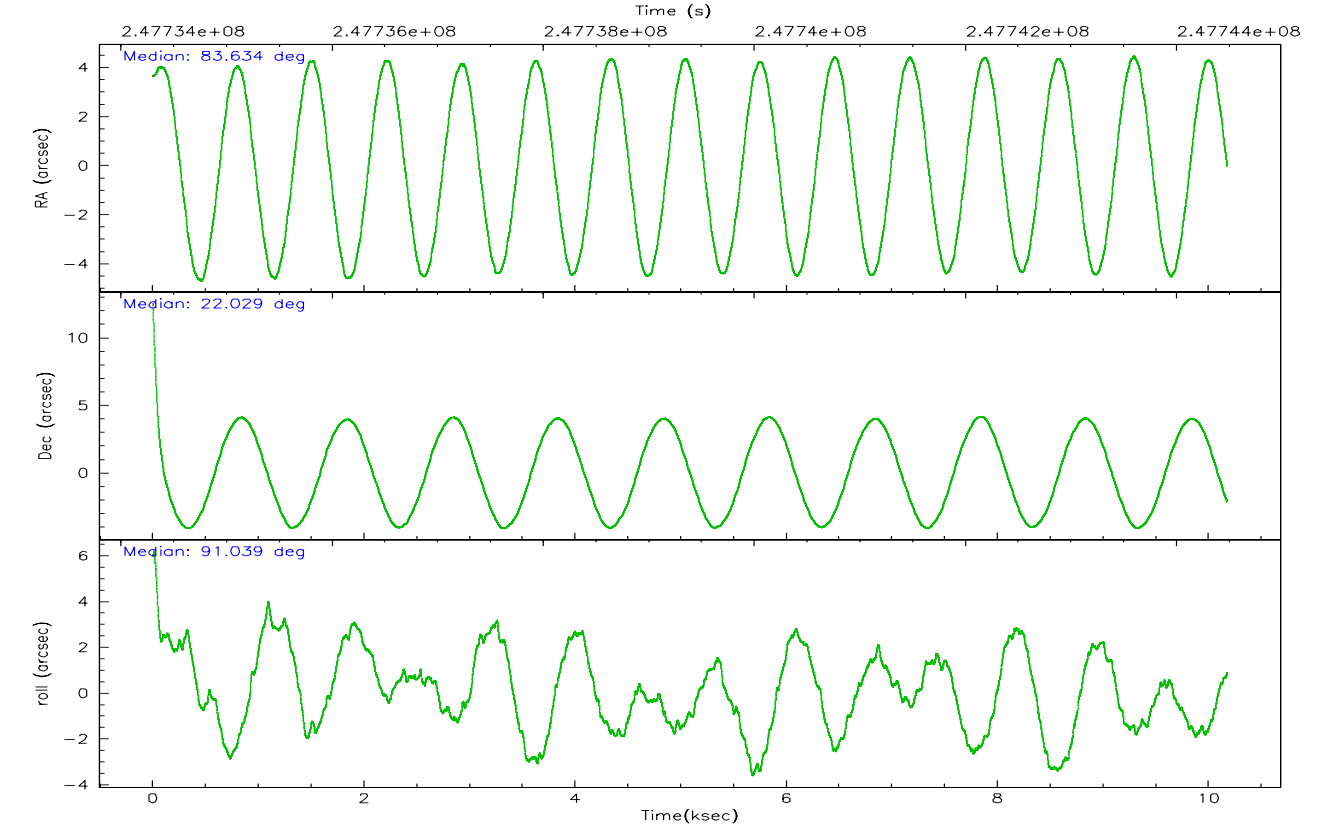
	ccd 7
grade 0 events	504721
	19%
grade 1 events	9646
	0%
grade 2 events	649715
	24%
grade 3 events	287069
	10%
grade 4 events	277099
	10%
grade 5 events	39560
	1%
grade 6 events	832319
	31%
grade 7 events	48263
	1%

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	83.649160	83.63368003075087	Subarray start row	127	127
Pointing Dec	22.005720	22.0288458431352	Subarray row count	101	101
Pointing Roll	90.882482	91.04491579574216	Alternating exposures requested	N	N
Window start time	247708864.184000	247708864.184000	Primary exposure time	0.000000	0.3
Window stop time	248313664.184000	248313664.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	247734482.184000	247732870.67238			
Observation start date	2005-11-07T07:06:58	2005-11-07T06:41:10			
Observation end time	247744482.184000	247745078.42294			
Observation end date	2005-11-07T09:53:38	2005-11-07T10:04:38			
Read mode	TIMED	TIMED			

2.3 Aspect



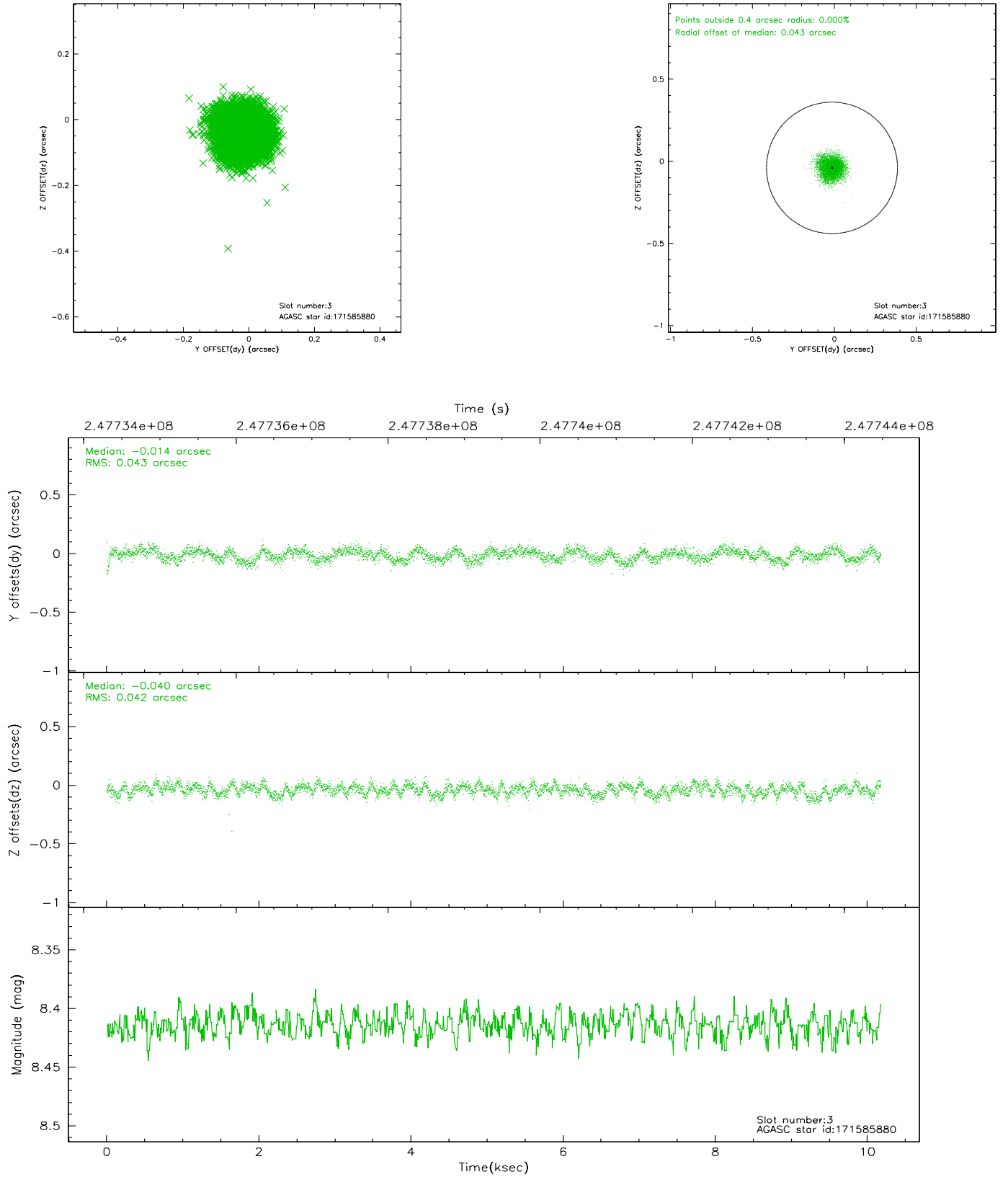


Slot Statistics

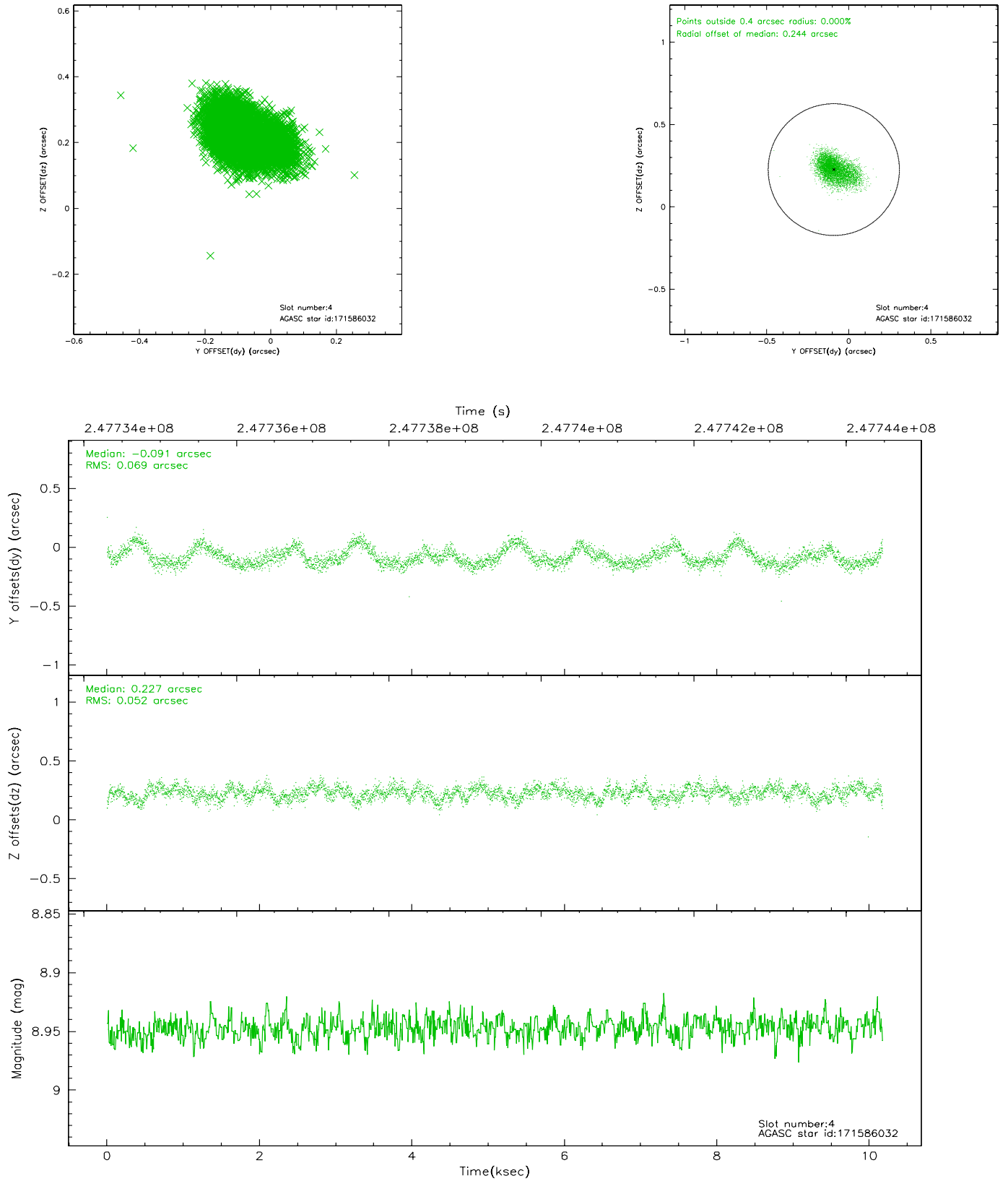
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	2482	-0.056	-0.072	0.007	0.012	0.000000	0.000000	-760.05	-1896.32
1	FID	ACIS-S-4	7.18	2482	0.071	0.047	0.006	0.011	0.000000	0.000000	2153.11	11.68
2	FID	ACIS-S-5	7.23	2482	-0.047	0.034	0.009	0.015	0.000000	0.000000	-1812.23	5.90
3	GUIDE	171585880	8.41	4964	-0.014	-0.040	0.065	0.100	83.676260	22.176319	612.99	-99.67
4	GUIDE	171586032	8.95	4963	-0.091	0.227	0.090	0.151	83.950197	22.083225	264.95	-1008.09
5	GUIDE	171721904	9.16	4961	-0.091	-0.028	0.128	0.195	84.272676	22.116922	372.98	-2085.56
6	GUIDE	243941560	8.32	4963	-0.061	0.066	0.074	0.111	83.733264	22.568598	2022.14	-310.75
7	GUIDE	171597832	9.15	4960	0.248	-0.224	0.086	0.137	83.183230	21.366702	-2273.02	1596.96

2.4 Star Slots

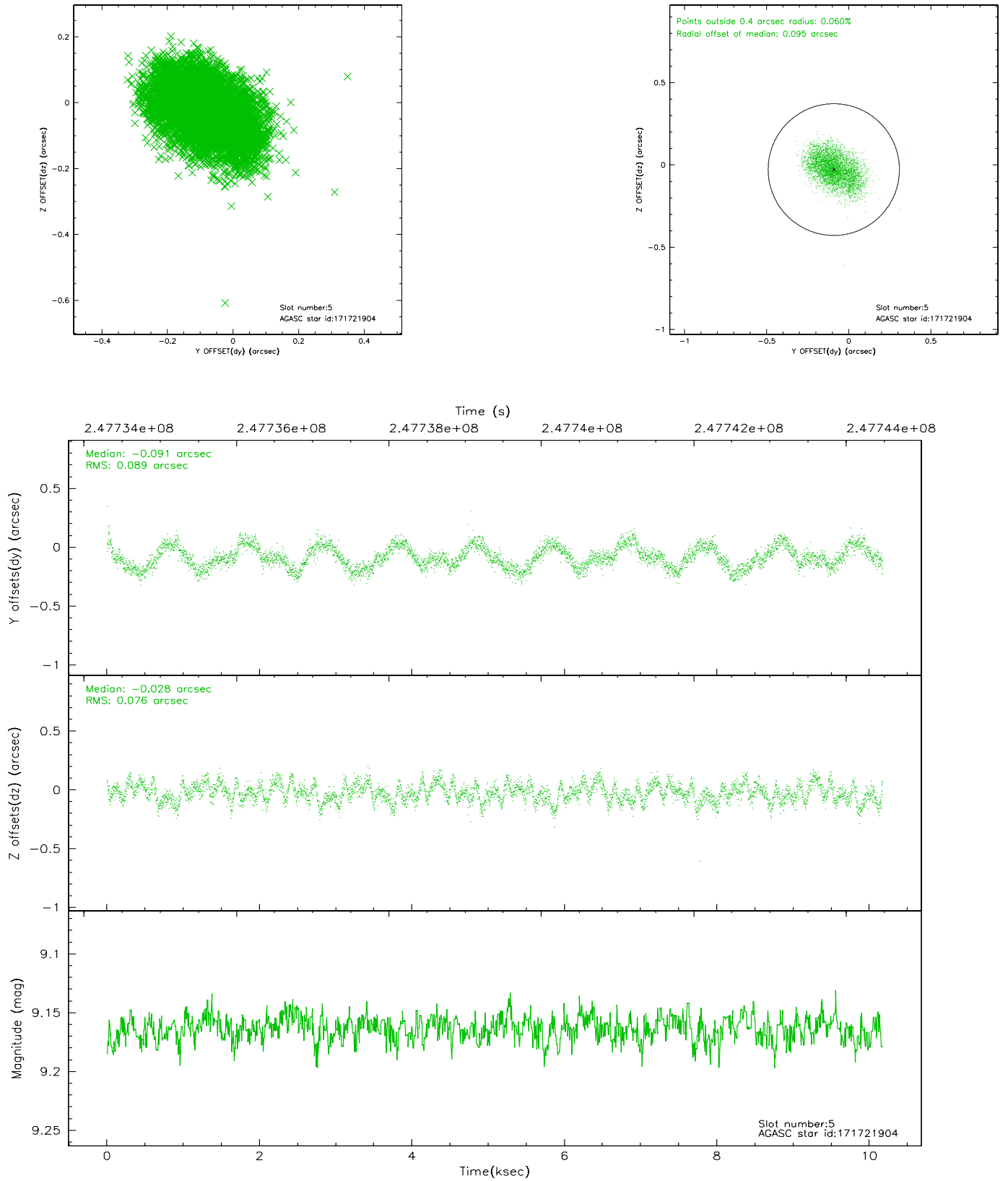
2.4.1 Slot 3



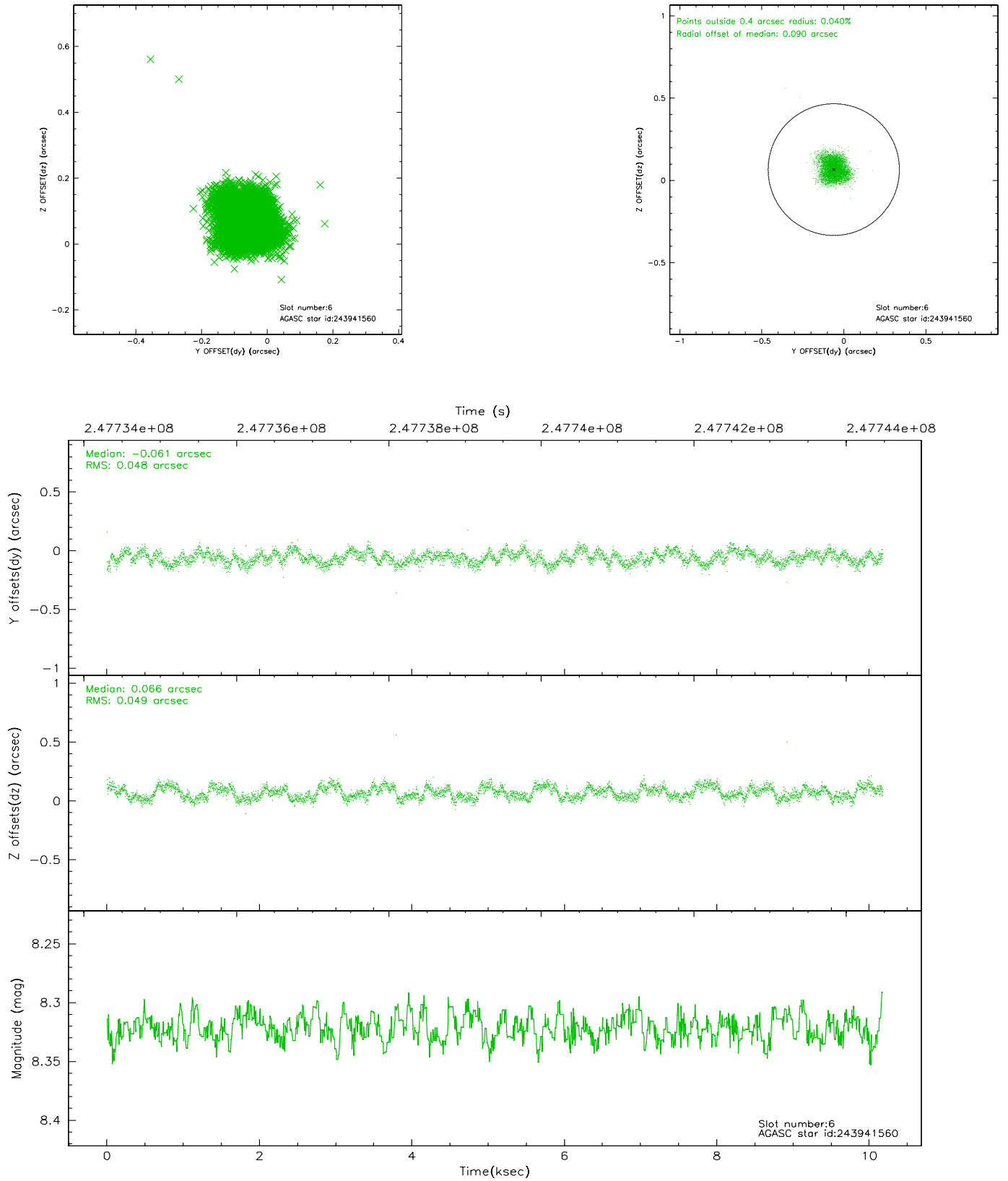
2.4.2 Slot 4



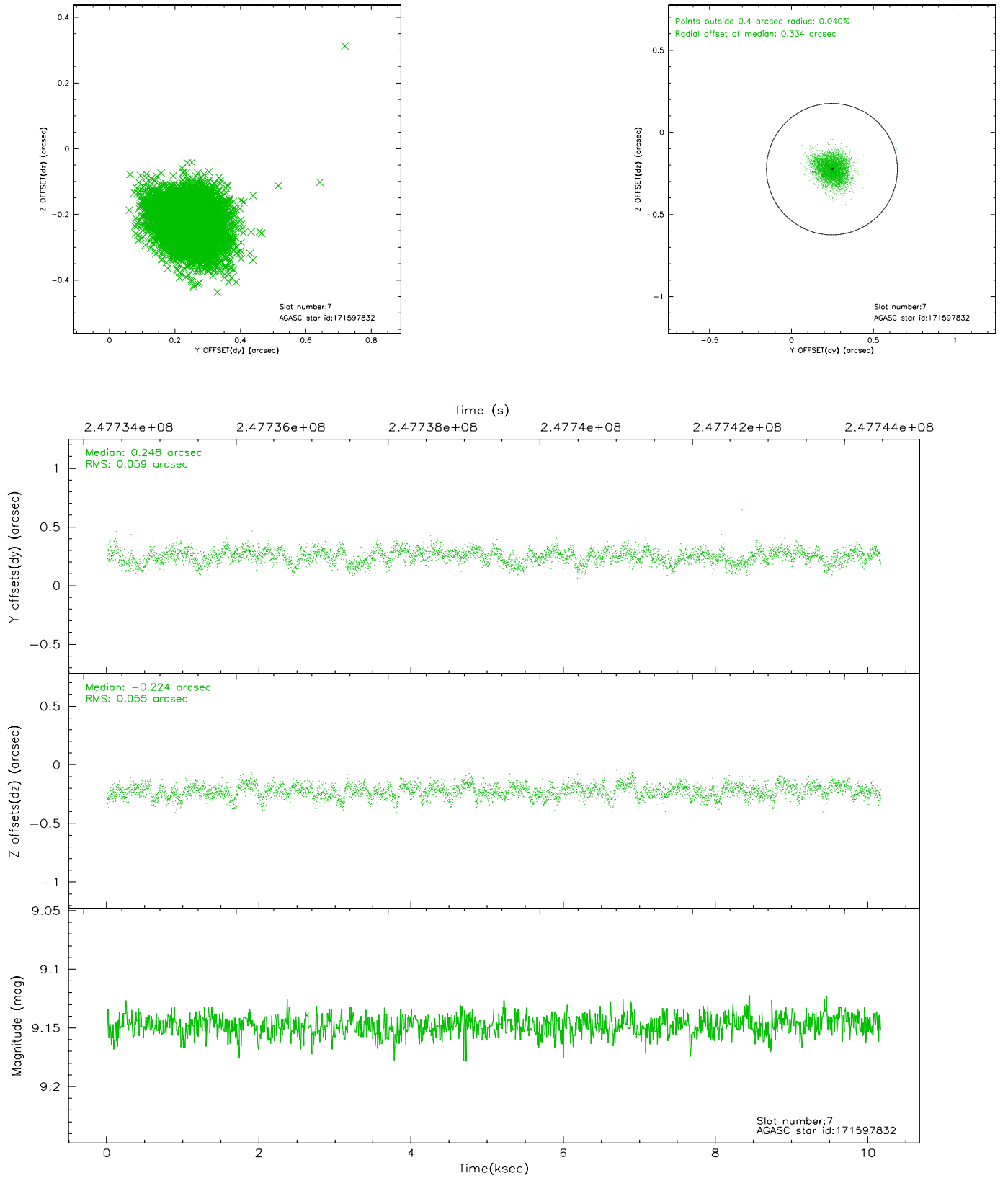
2.4.3 Slot 5



2.4.4 Slot 6

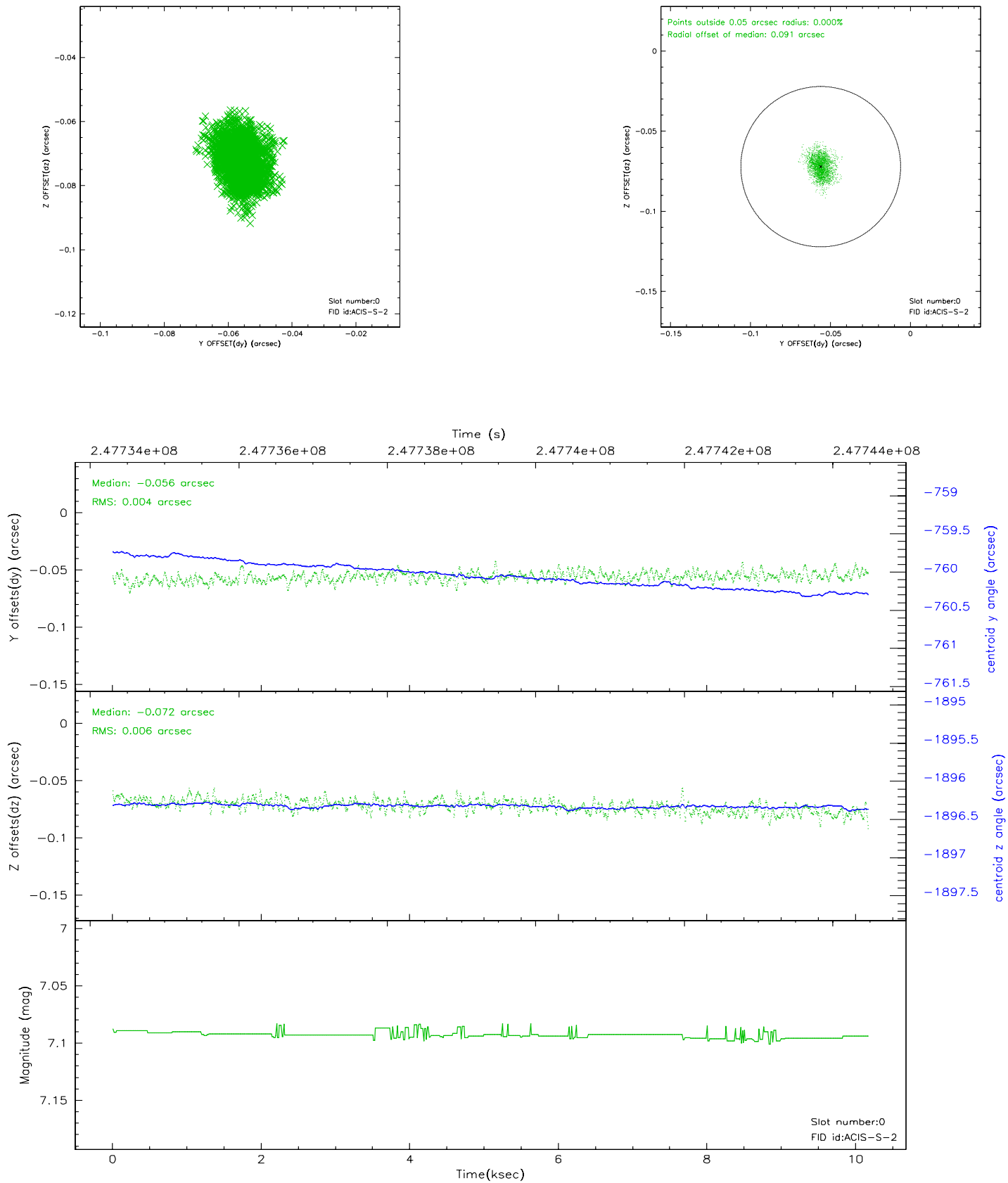


2.4.5 Slot 7

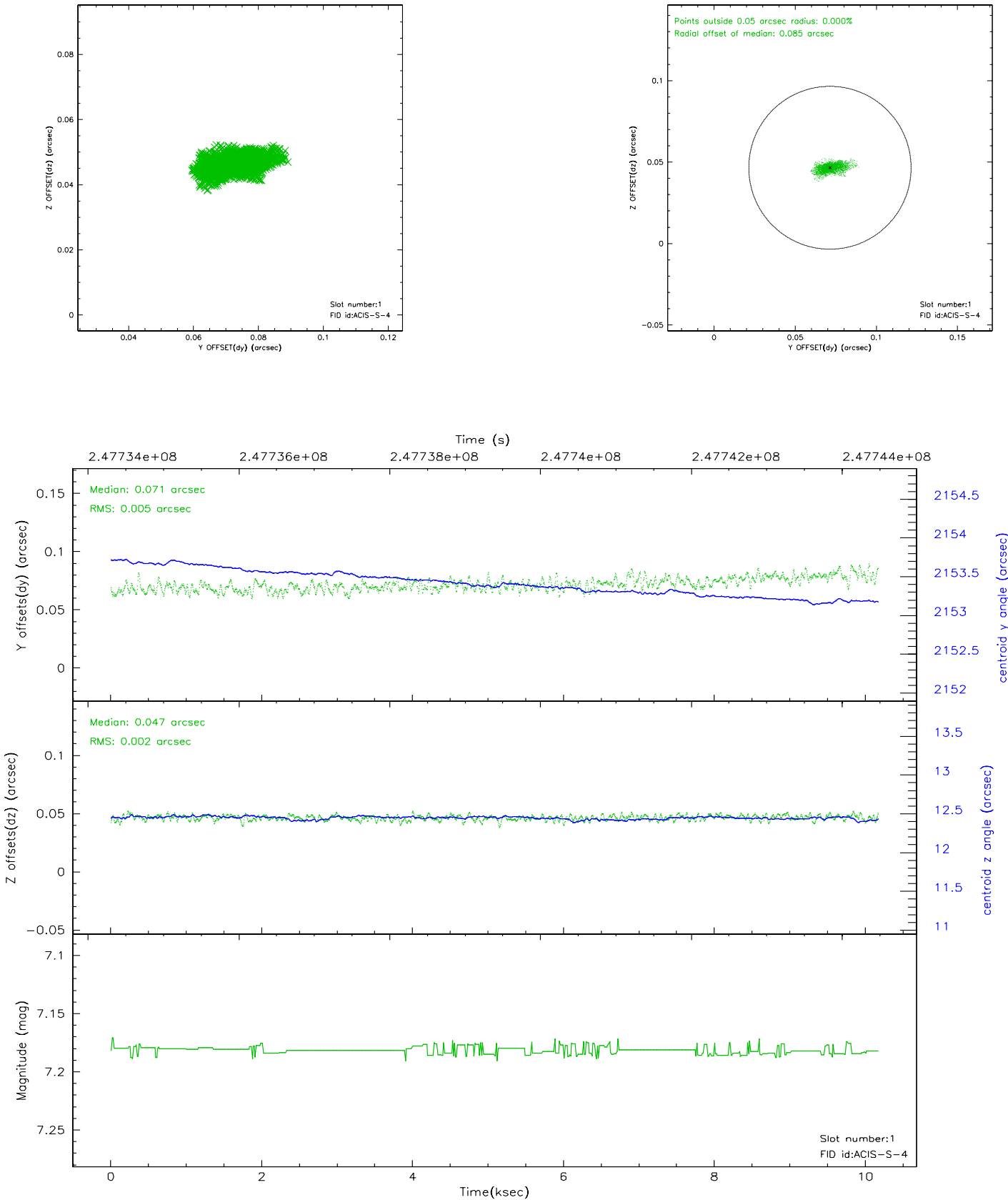


2.5 FID Slots

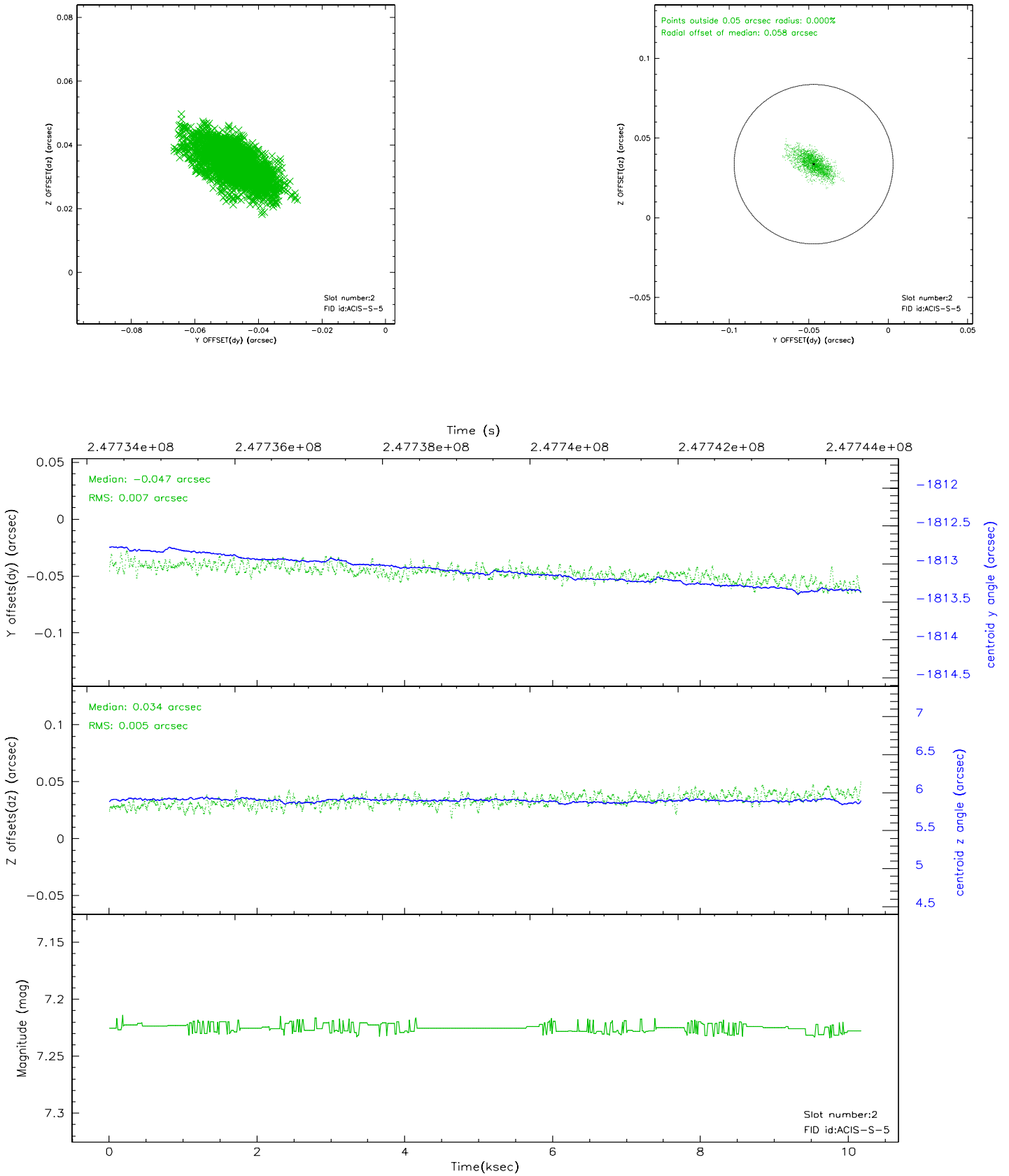
2.5.1 Slot 0



2.5.2 Slot 1

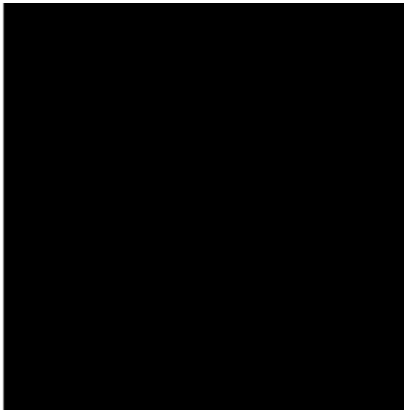


2.5.3 Slot 2

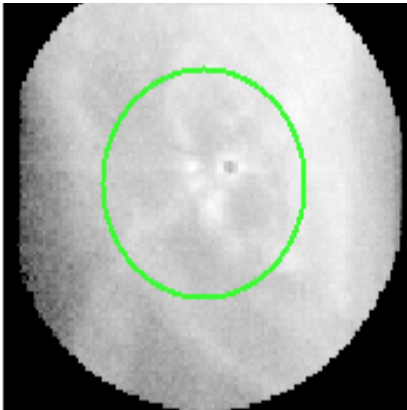


3 Gratings

3.1 HEG Arm



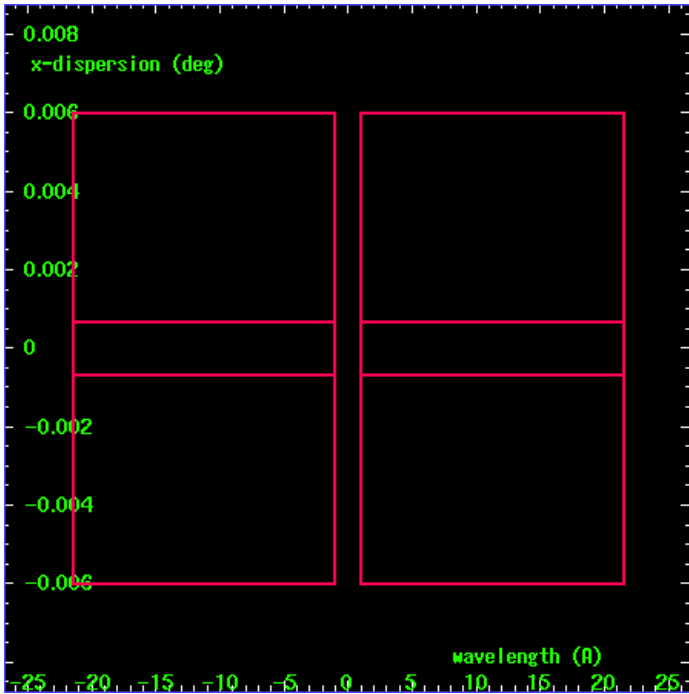
HEG Order Sort 123



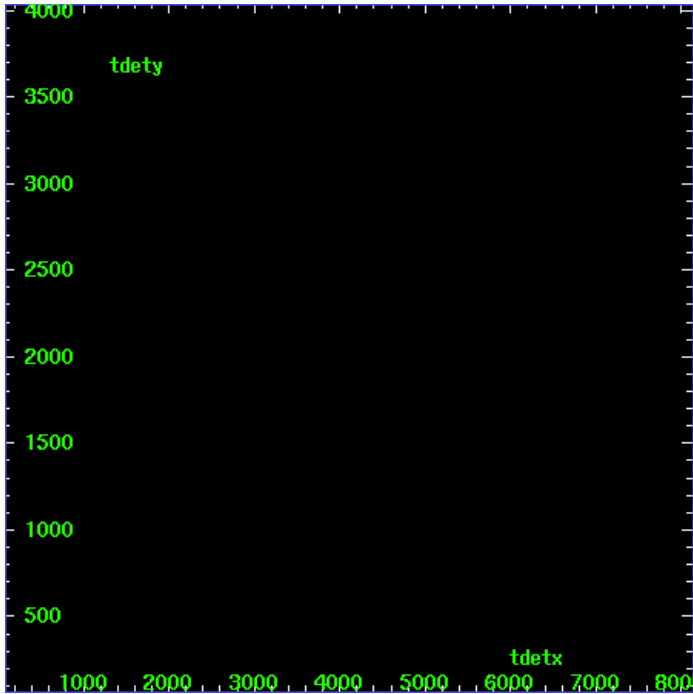
HEG Zero Order



HEG Order Sort ALL

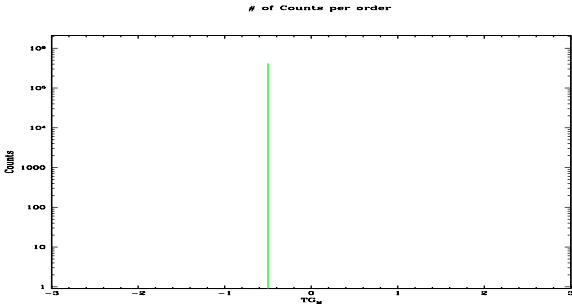


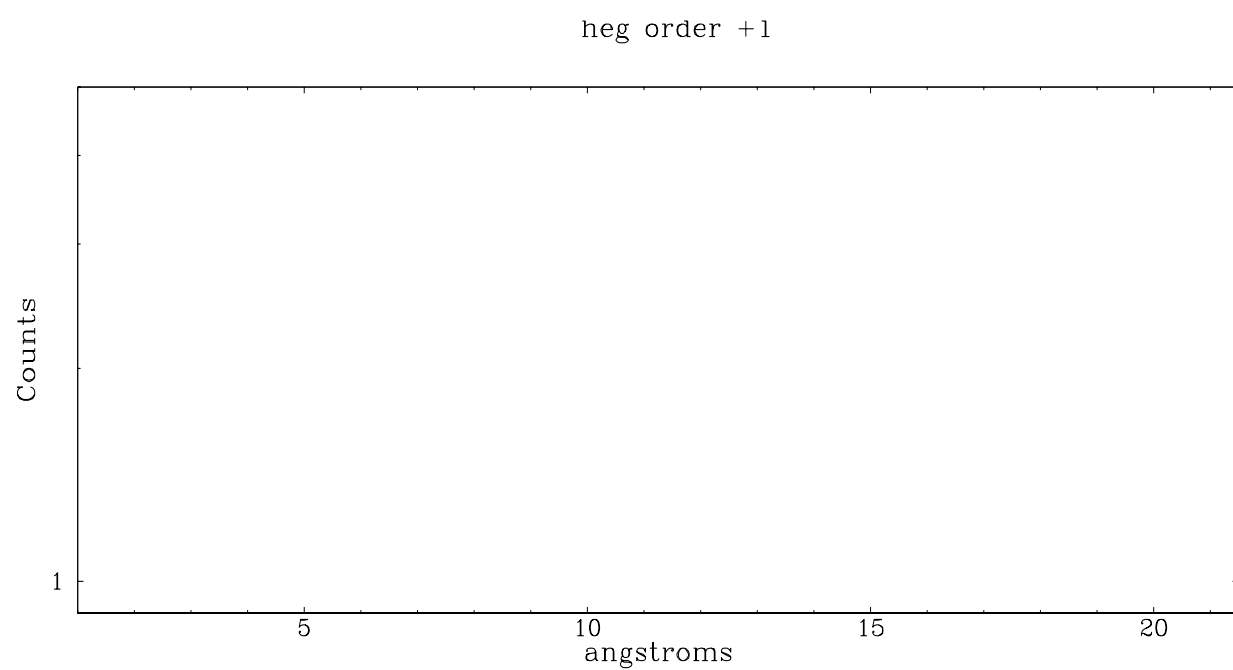
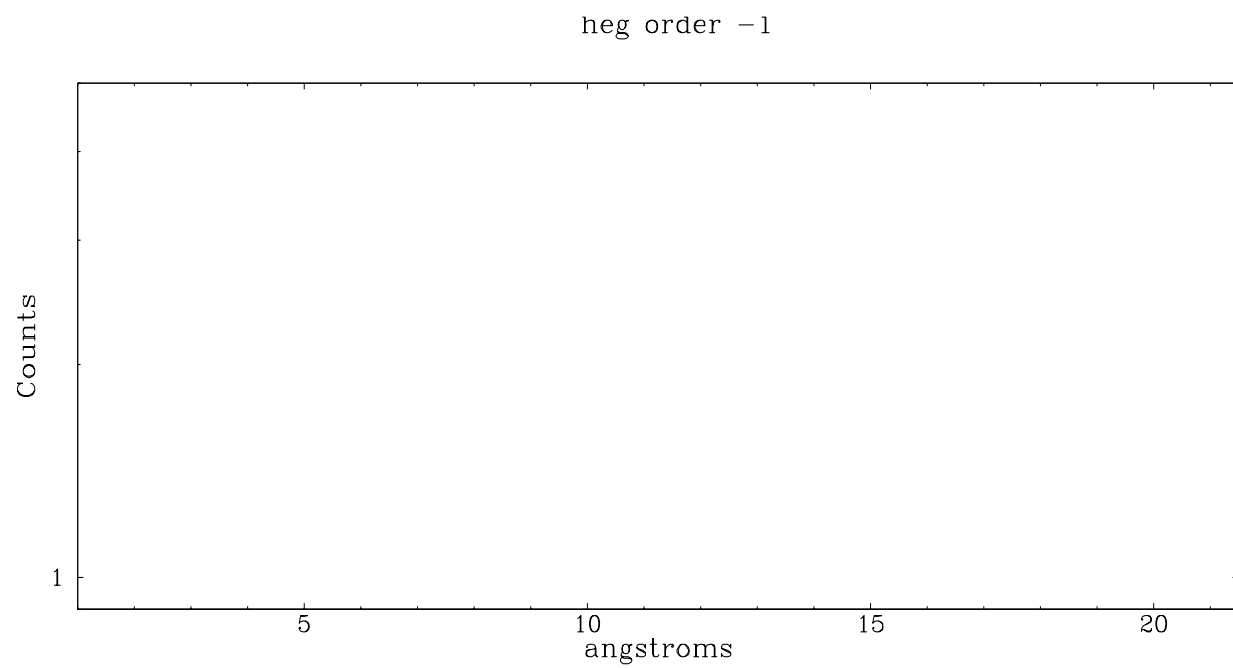
Spot Image HEG



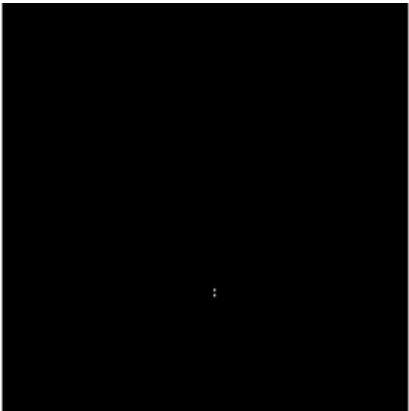
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	415408	0	0	0

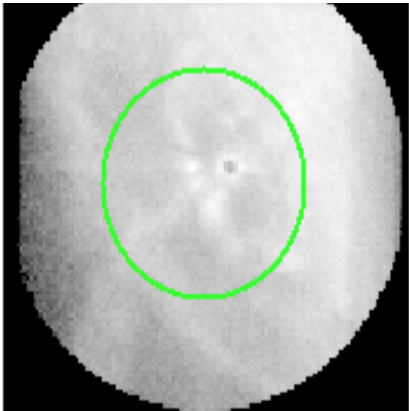




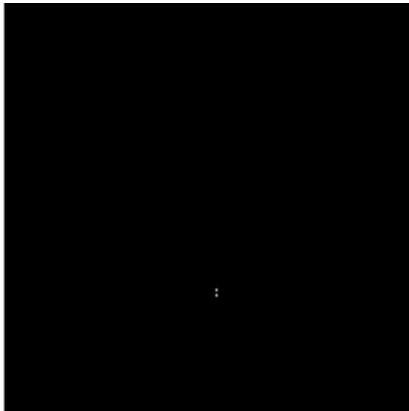
3.2 MEG Arm



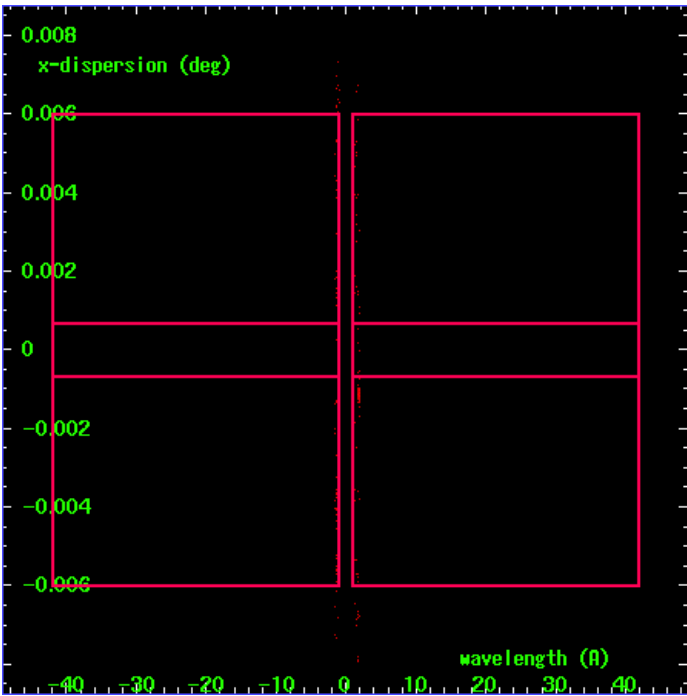
MEG Order Sort 123



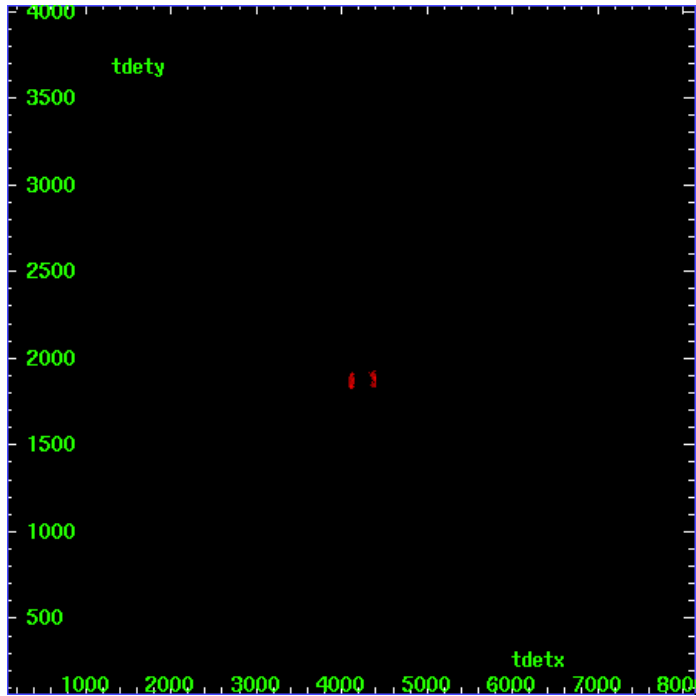
MEG Zero Order



MEG Order Sort ALL

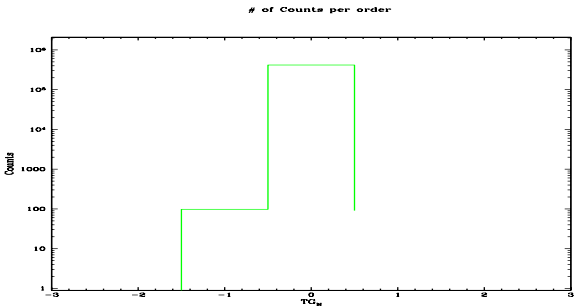


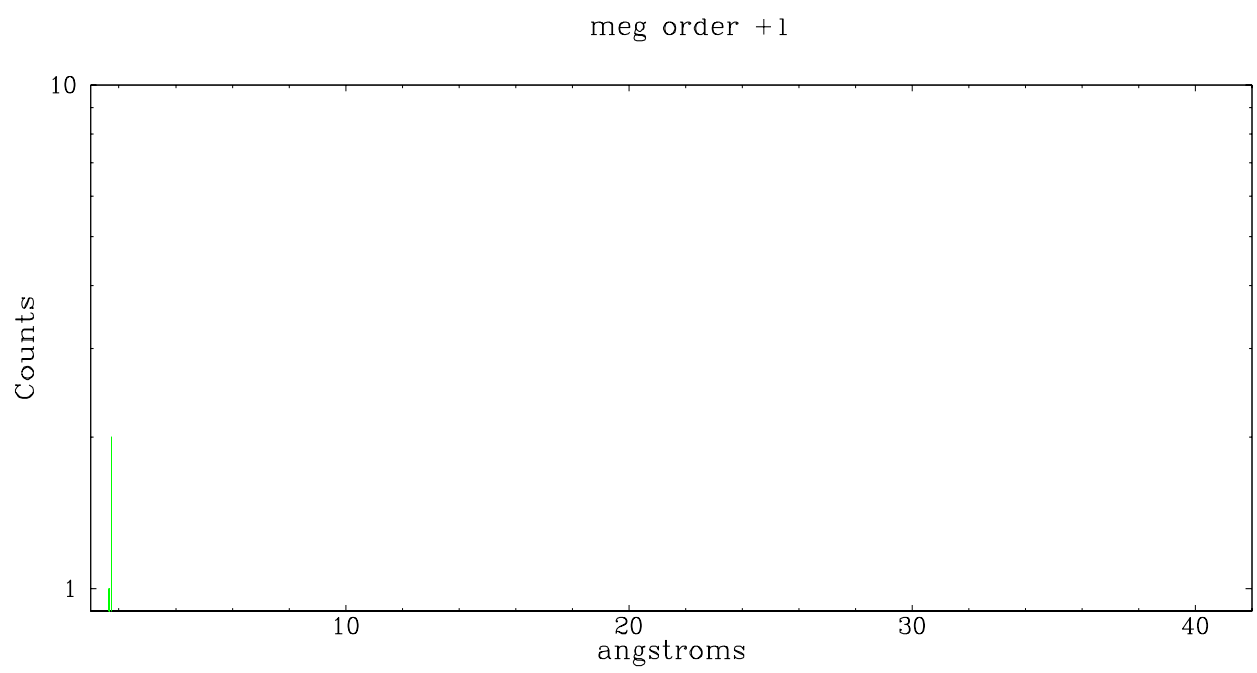
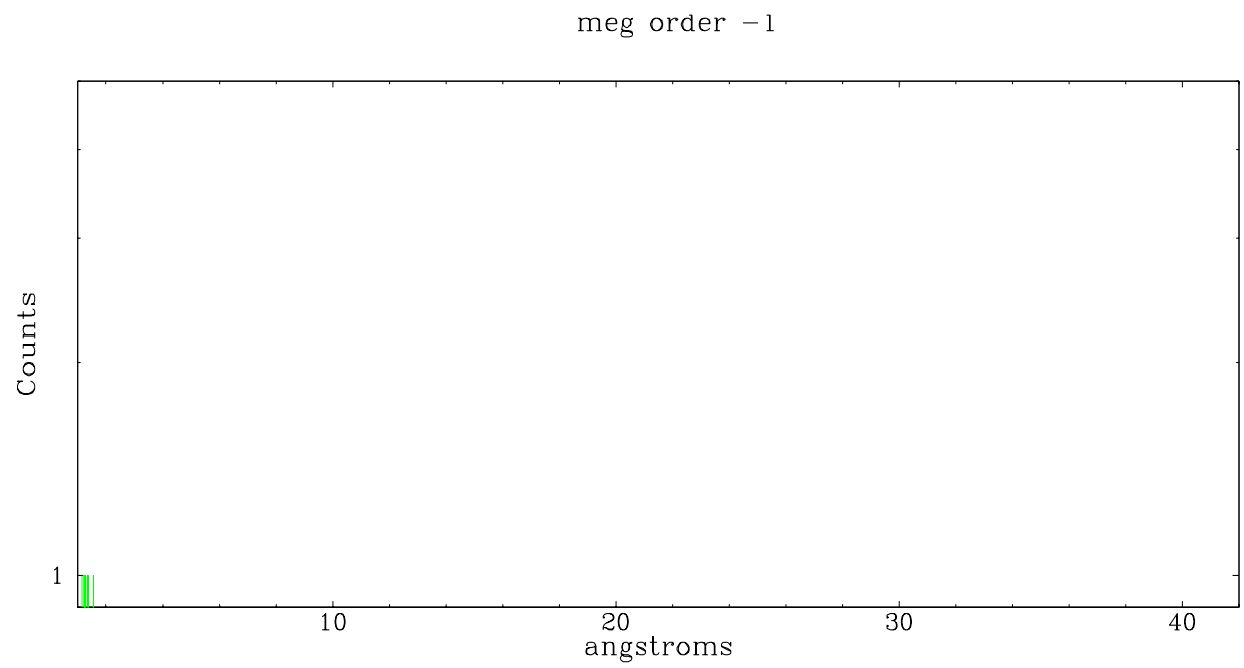
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	98	415408	91	0	0





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1736

A.2 Comments