

V&V Reference Report

L2 ASCDS Version : 7.6.7

Observation 5552 - L2 Version 002
Chandra X-Ray Center

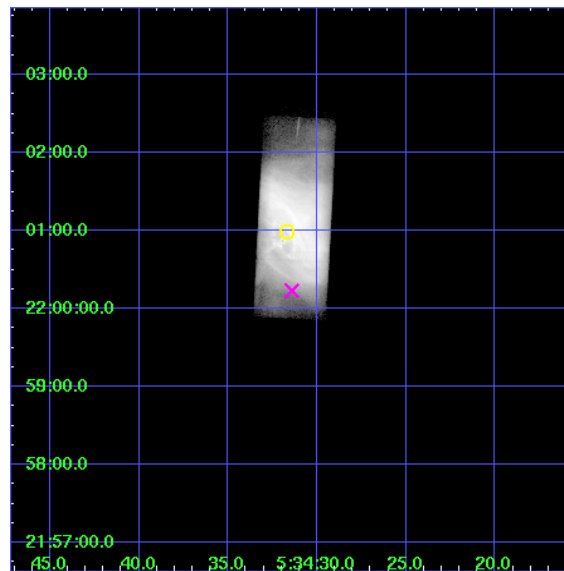
L2 Processing Date: Feb 25 2006

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1 Front

seq_num	500541
obs_id	5552
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	83.630956727737
dec_nom	22.004091977135
roll_nom	272.98079921302
revision	2
ontime	9175.2003645897
livetime	8071.0770272605
ontime7	9175.2003645897
l2events	2407274

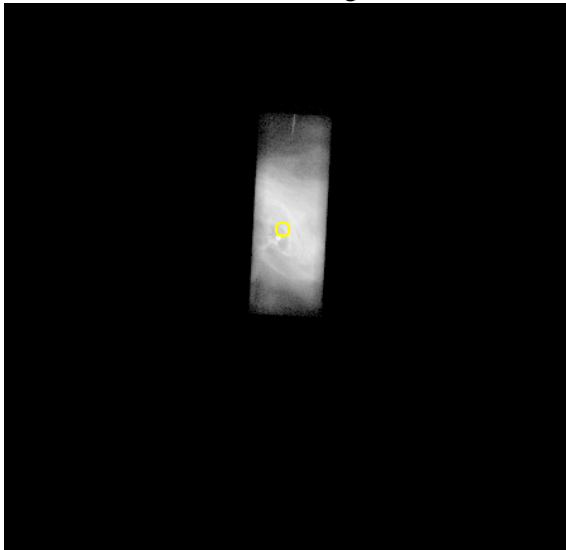


2 OBI

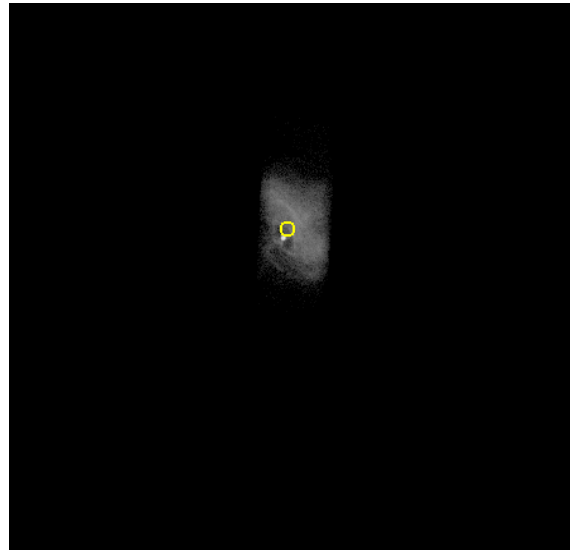
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7
caldbver	3.2.1
date	2006-02-25T13:39:31
revision	2

sched_exp_time	9004.952000
ontime	9526.5185610652
ontime7	9526.5185610652
l1events	2561418

2.1.3 Events

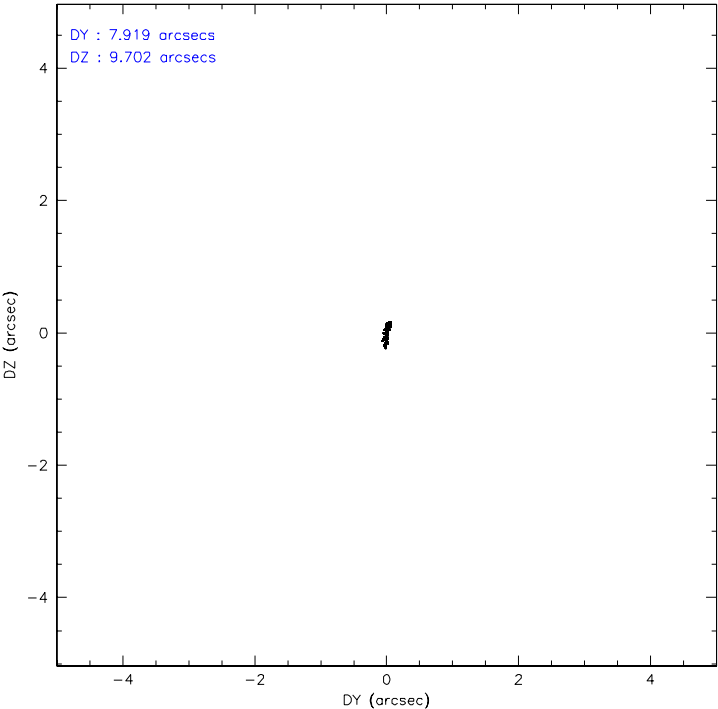
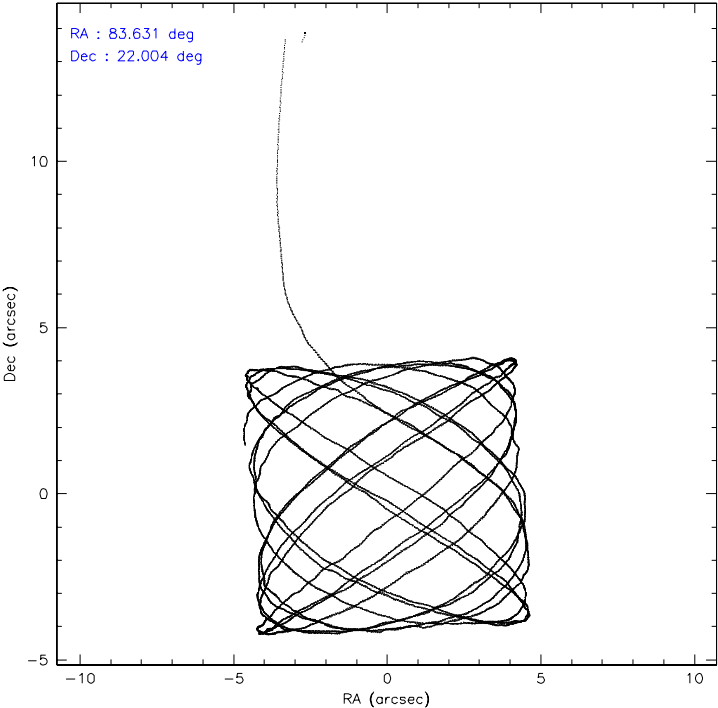
	ccd 7
level 1 events	2561418
rejected events	127295
rejected %	4%

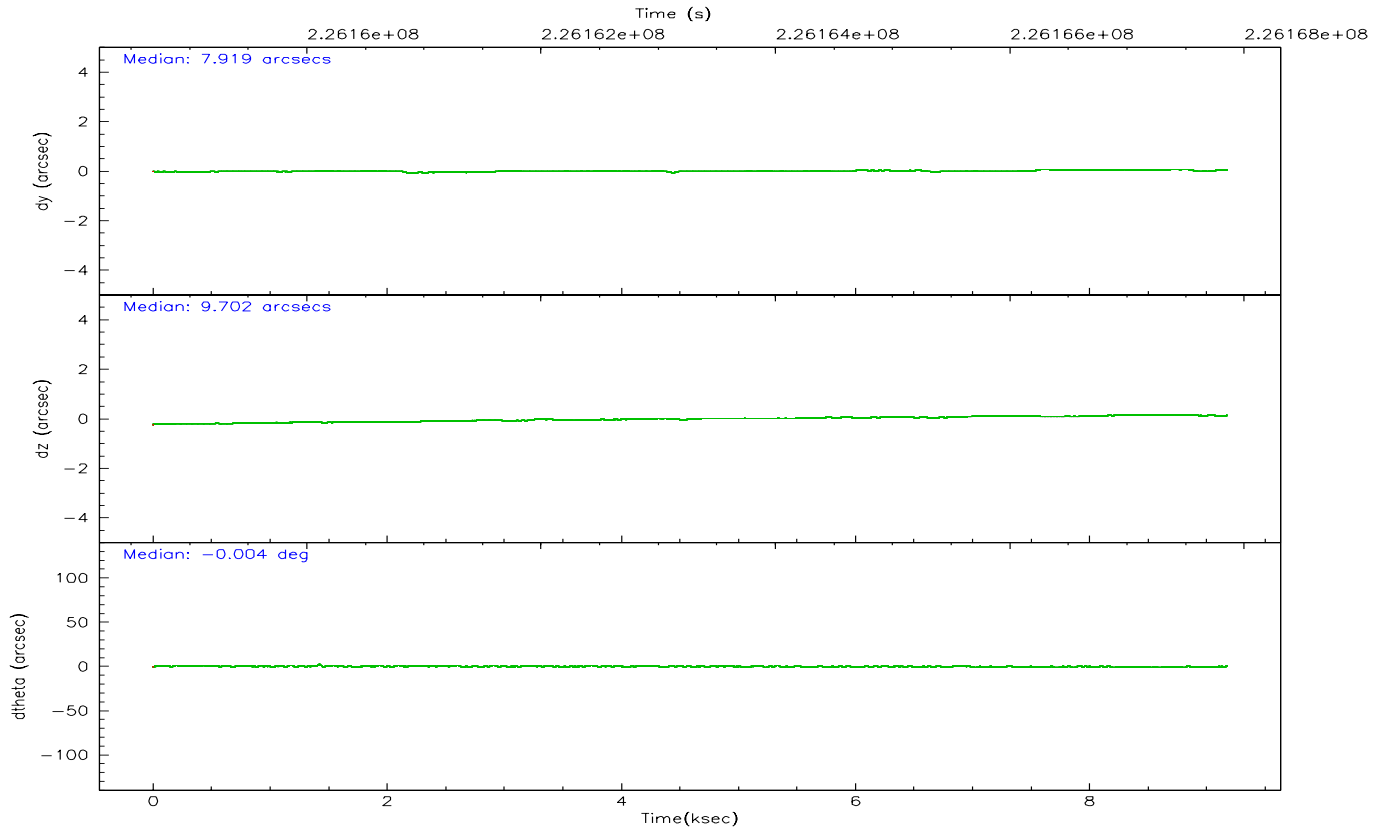
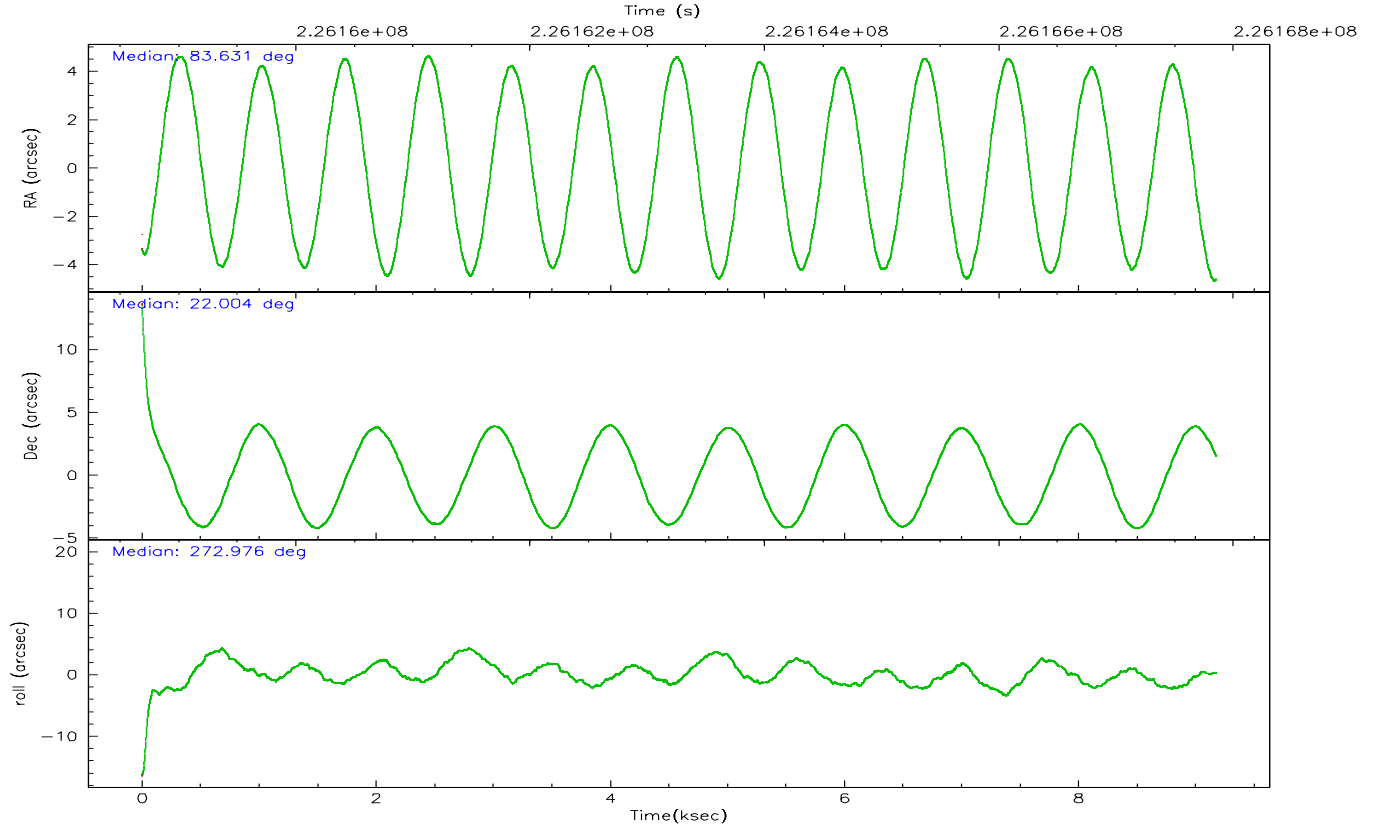
	ccd 7
grade 0 events	499960
	19%
grade 1 events	9602
	0%
grade 2 events	629681
	24%
grade 3 events	281178
	10%
grade 4 events	269425
	10%
grade 5 events	39306
	1%
grade 6 events	786367
	30%
grade 7 events	45899
	1%

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	83.614624	83.63095672773659	Subarray start row	127	127
Pointing Dec	22.026682	22.00409197713474	Subarray row count	101	101
Pointing Roll	272.830320	272.9807992130193	Alternating exposures requested	N	N
Window start time	225936064.184000	225936064.184000	Primary exposure time	0.000000	0.3
Window stop time	226540864.184000	226540864.184000			
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	226158859.184000	226157923.99845			
Observation start date	2005-03-02T13:53:15	2005-03-02T13:38:43			
Observation end time	226167864.184000	226168076.11141			
Observation end date	2005-03-02T16:23:20	2005-03-02T16:27:56			
Read mode	TIMED	TIMED			

2.3 Aspect



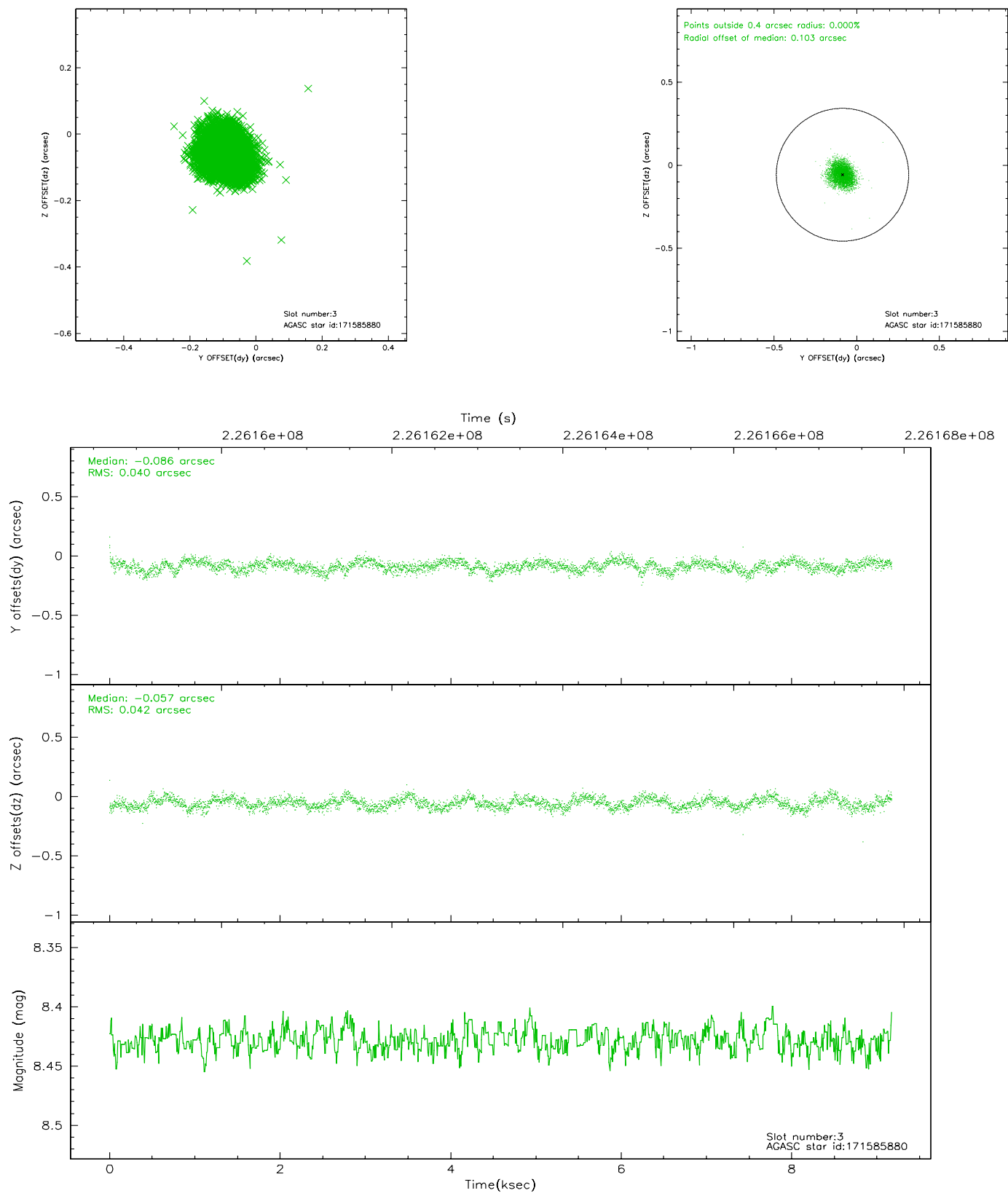


Slot Statistics

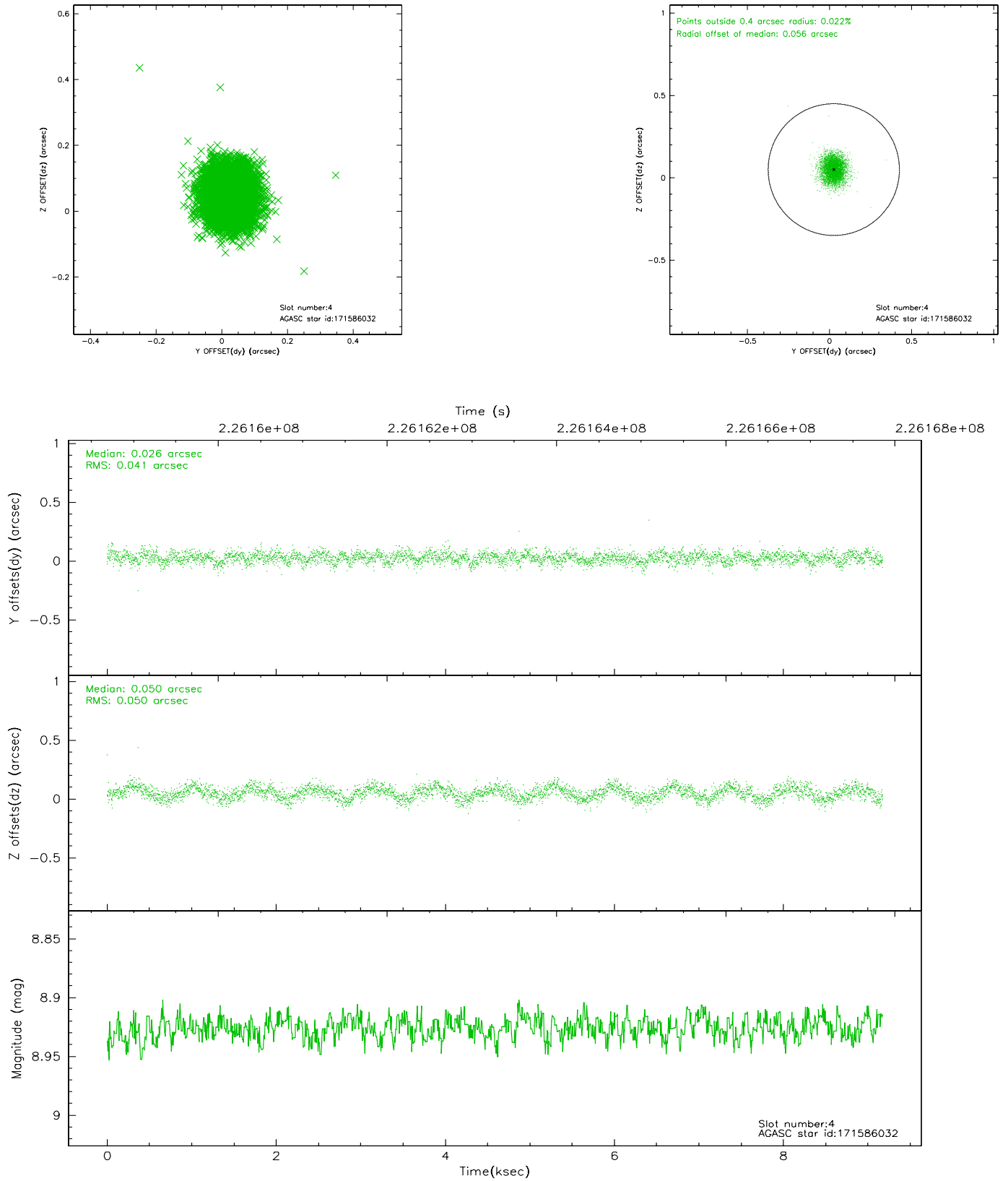
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	2239	-0.050	-0.065	0.006	0.010	0.000000	0.000000	-760.17	-1895.71
1	FID	ACIS-S-4	7.18	2239	0.066	0.041	0.005	0.009	0.000000	0.000000	2152.95	12.19
2	FID	ACIS-S-5	7.22	2239	-0.048	0.031	0.006	0.010	0.000000	0.000000	-1812.25	6.52
3	GUIDE	171585880	8.43	4476	-0.086	-0.057	0.062	0.098	83.676260	22.176319	-527.64	231.82
4	GUIDE	171586032	8.93	4474	0.026	0.050	0.068	0.110	83.950197	22.083225	-149.06	1128.37
5	GUIDE	171597832	9.16	4474	0.187	-0.077	0.084	0.140	83.183230	21.366702	2300.34	-1561.34
6	GUIDE	171721904	9.22	4473	0.086	0.071	0.098	0.149	84.272676	22.116922	-220.04	2208.06
7	GUIDE	243941560	8.29	4476	-0.216	0.016	0.068	0.107	83.733264	22.568598	-1929.02	490.63

2.4 Star Slots

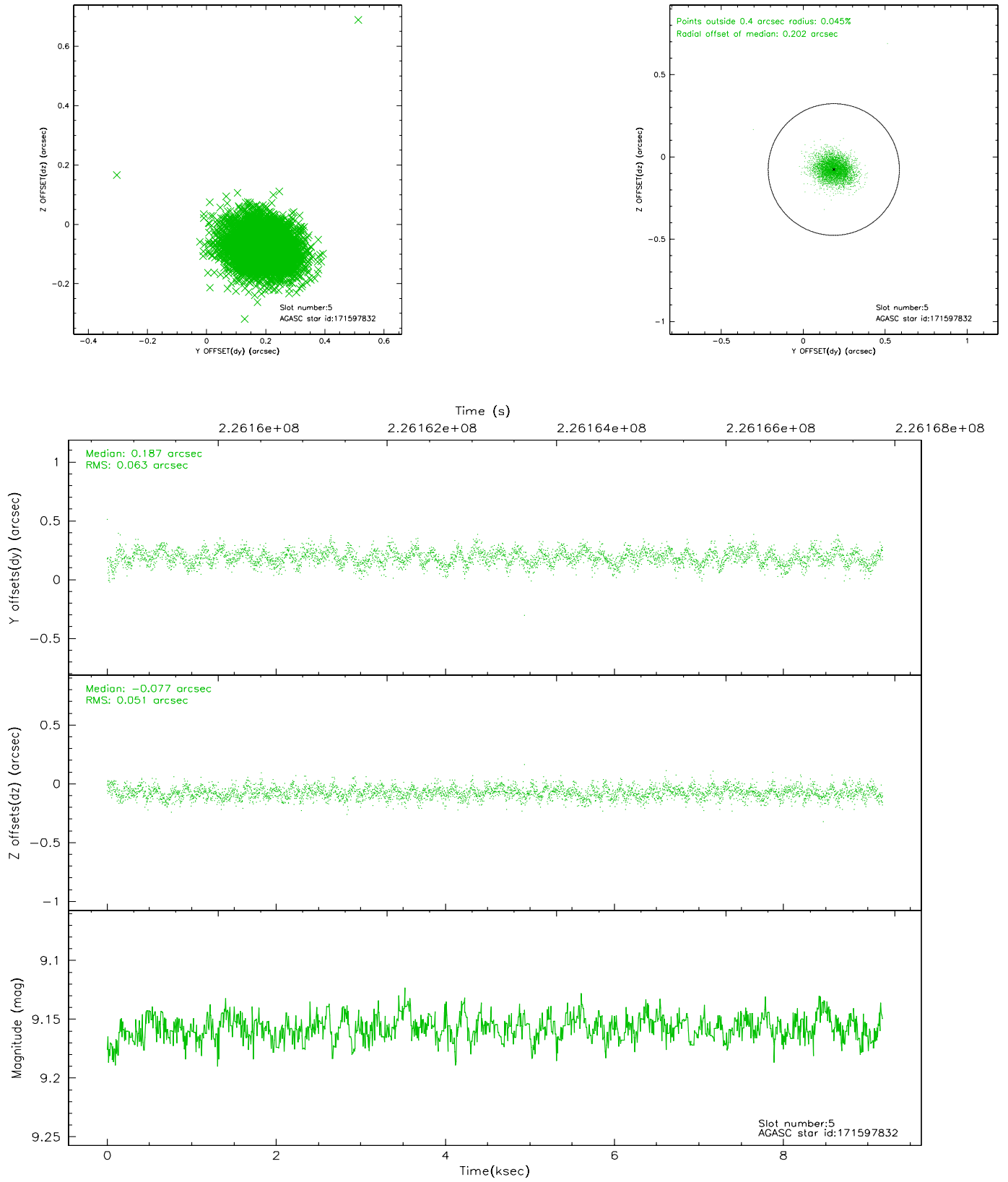
2.4.1 Slot 3



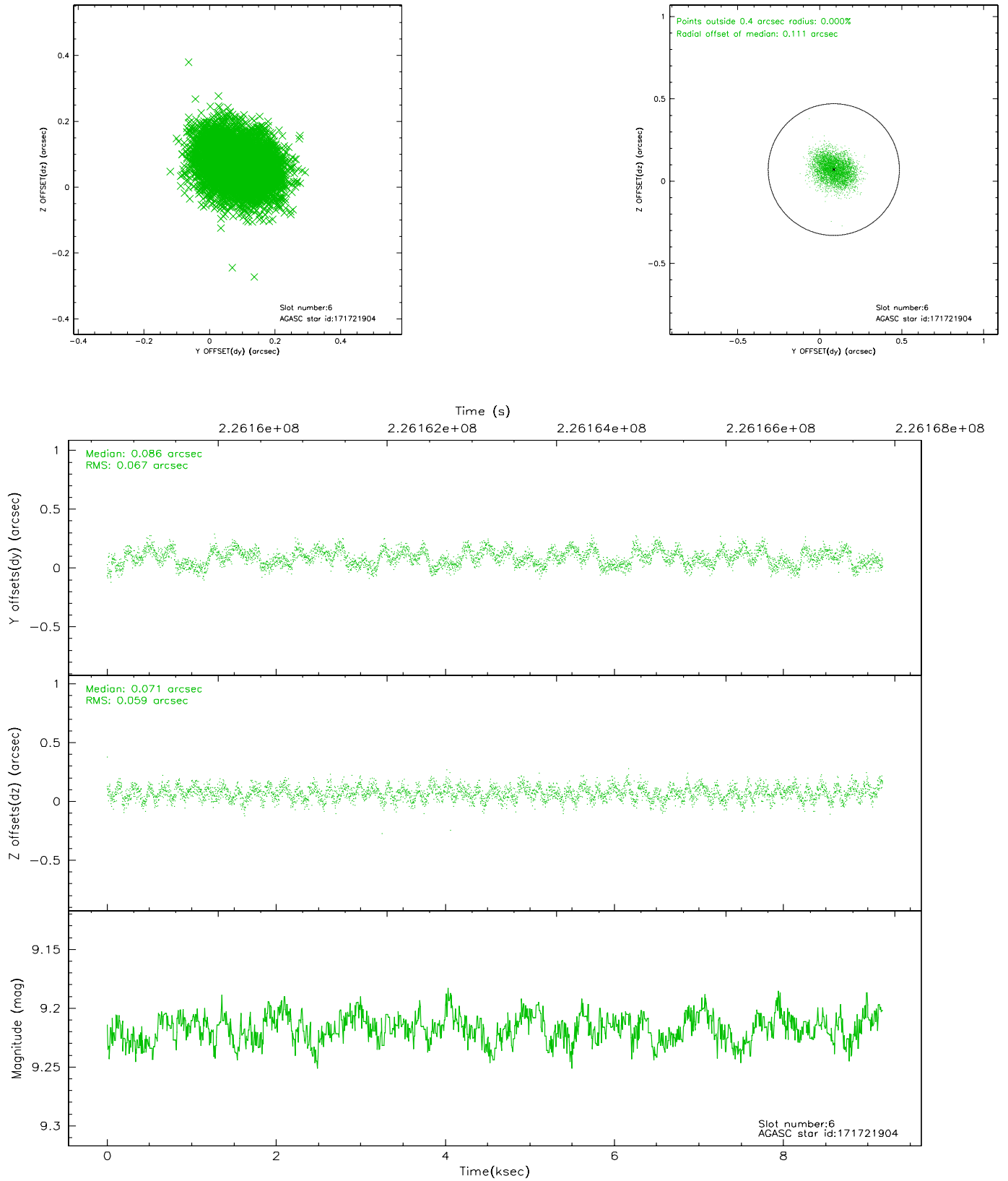
2.4.2 Slot 4



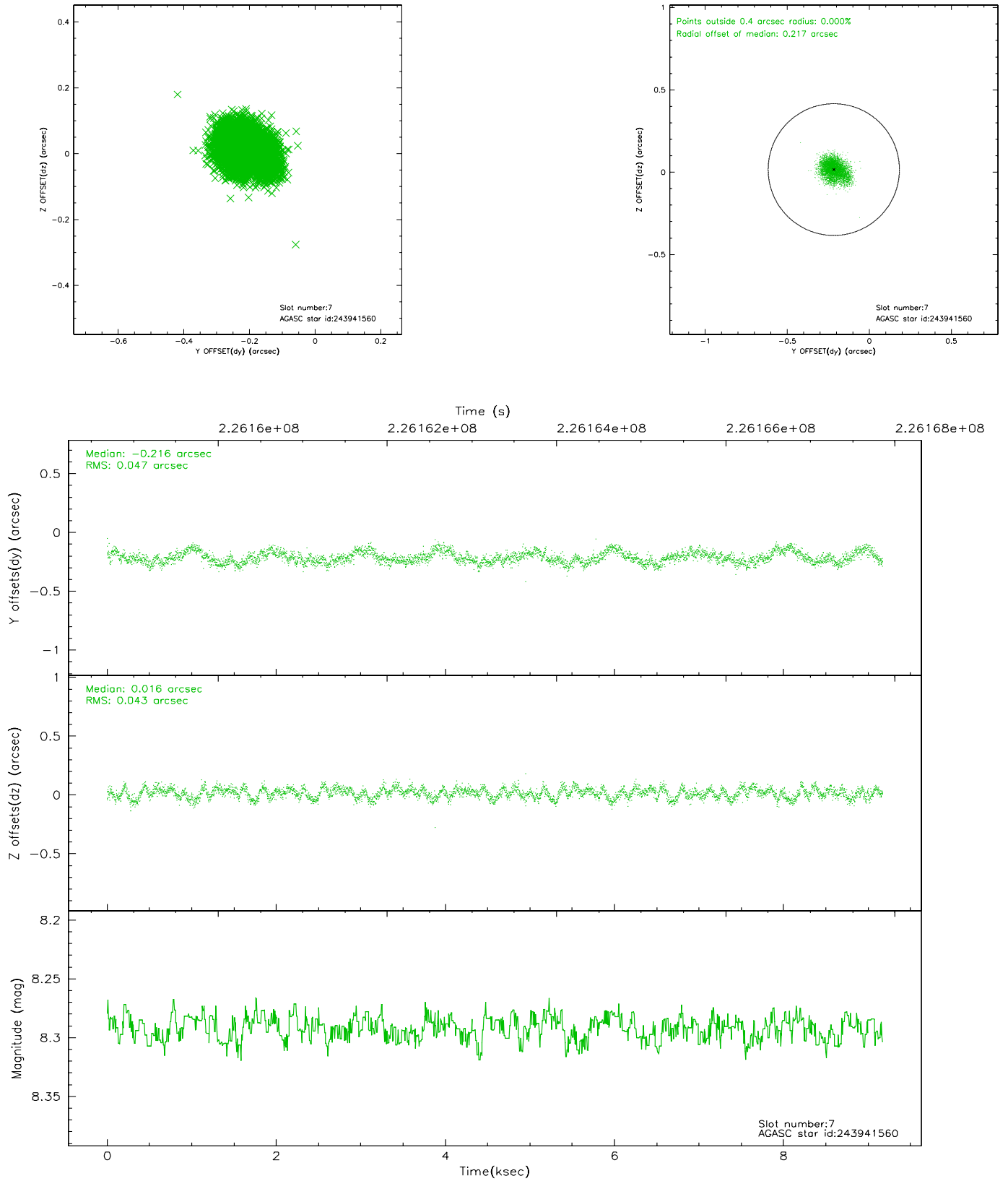
2.4.3 Slot 5



2.4.4 Slot 6

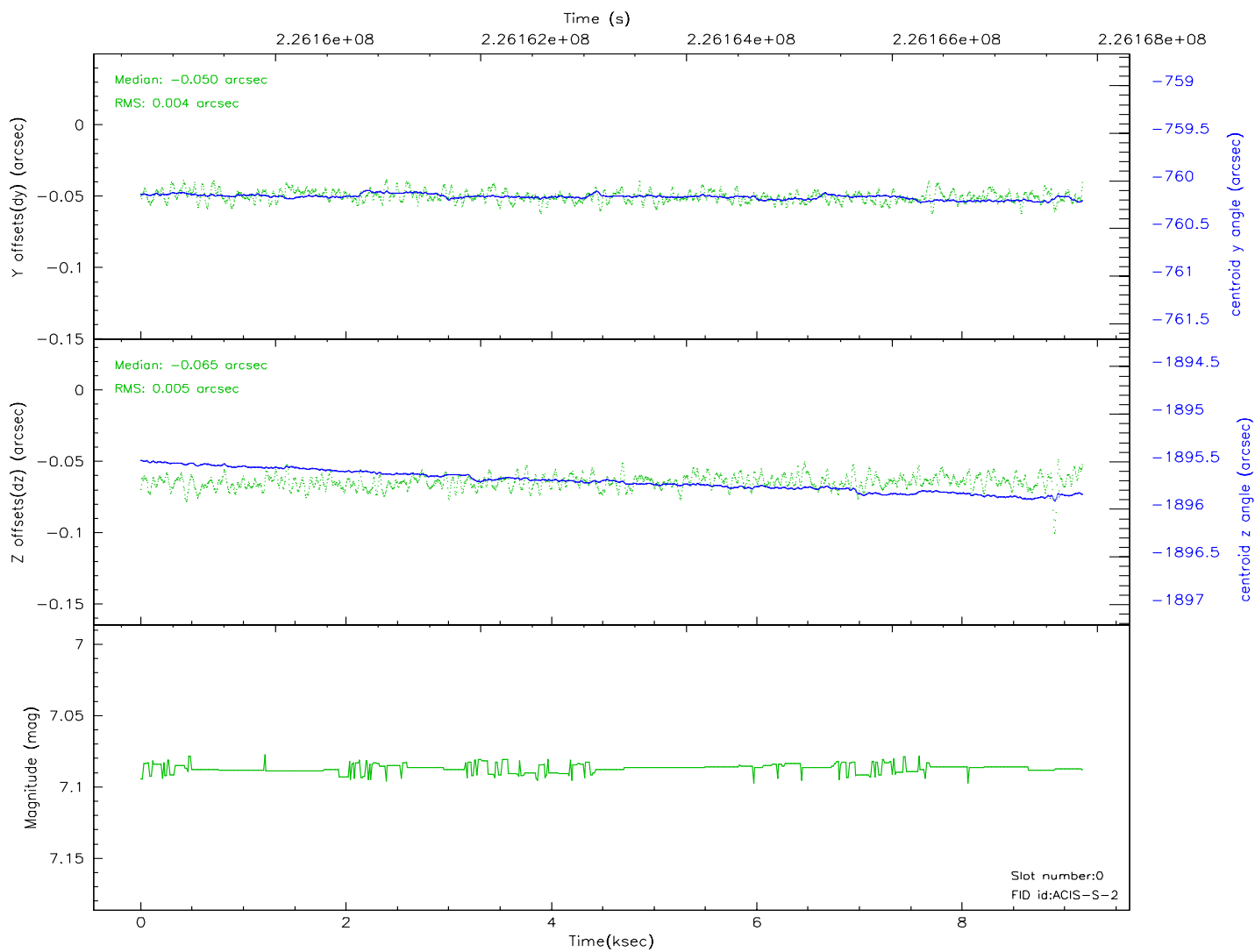
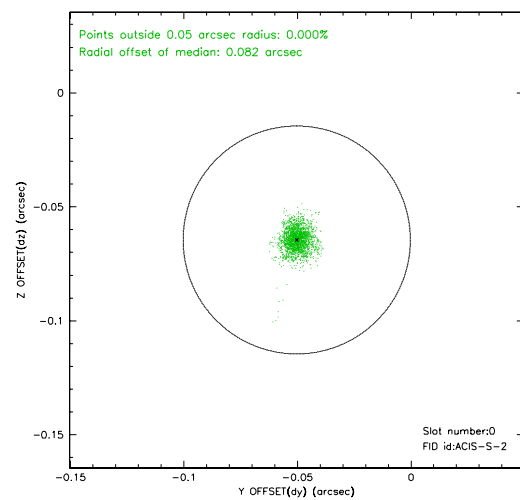
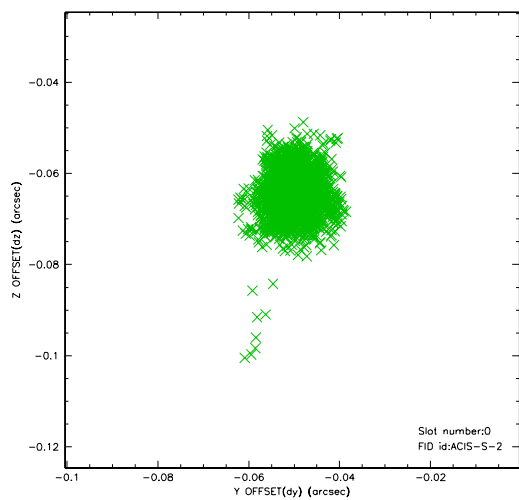


2.4.5 Slot 7

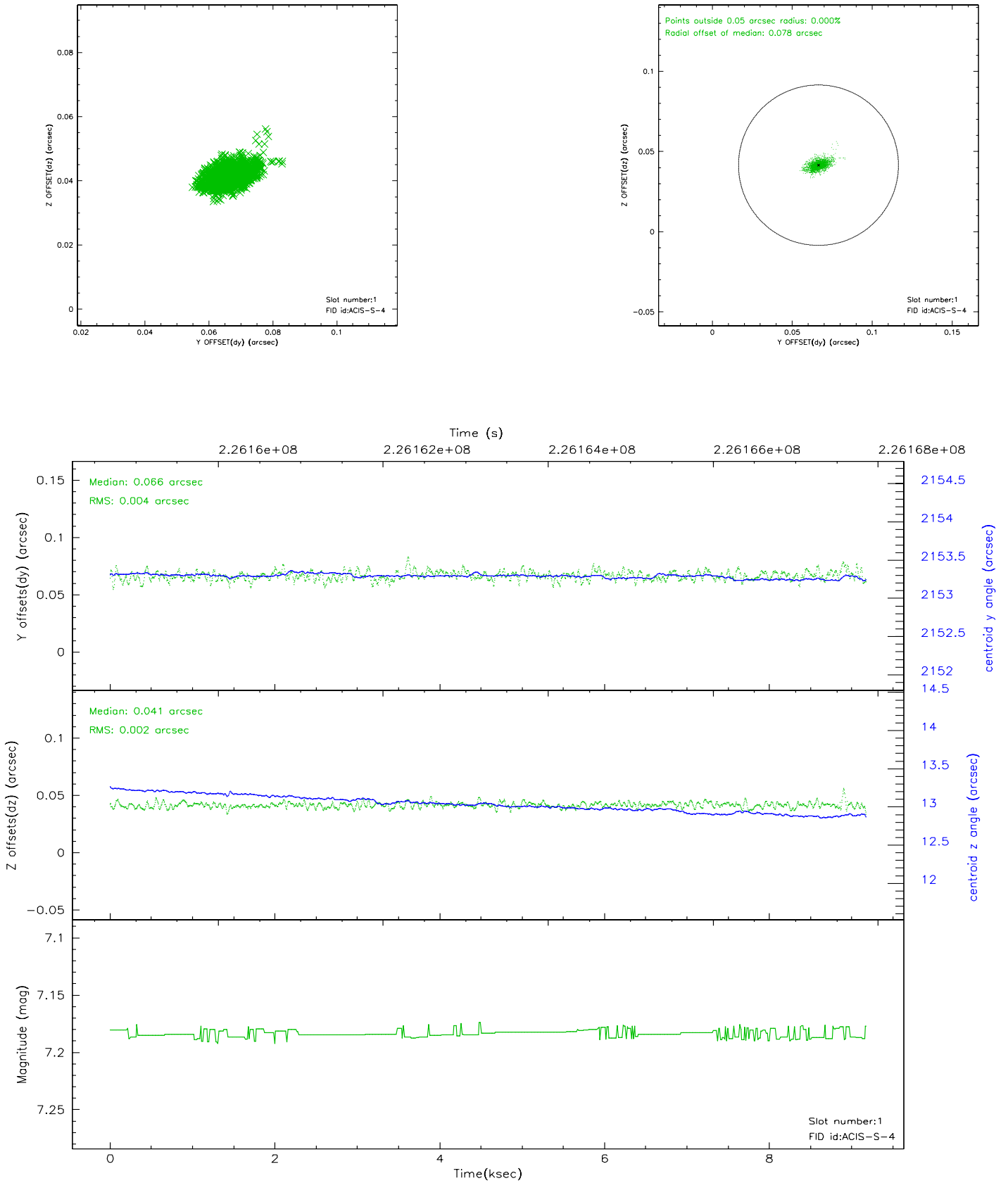


2.5 FID Slots

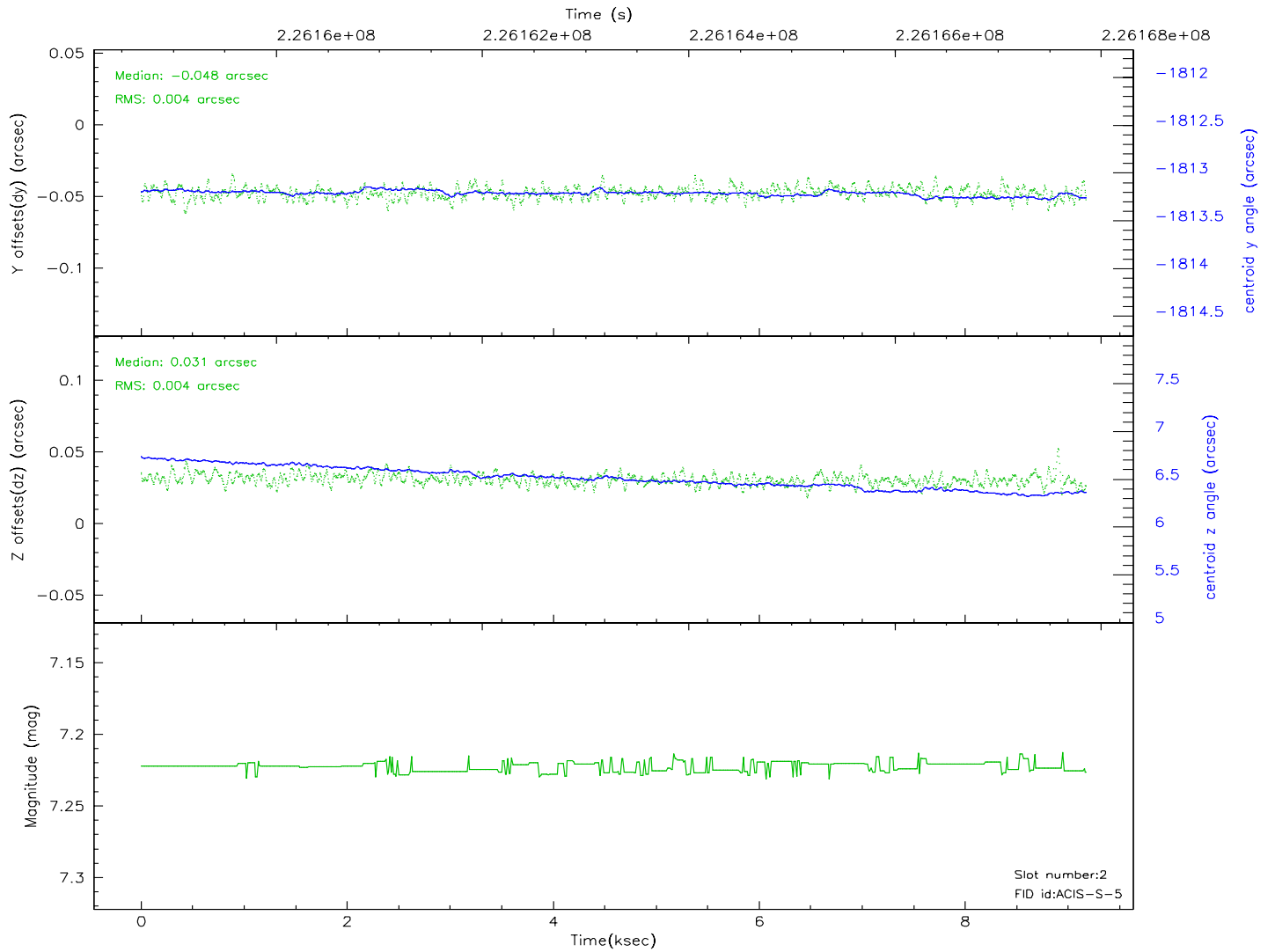
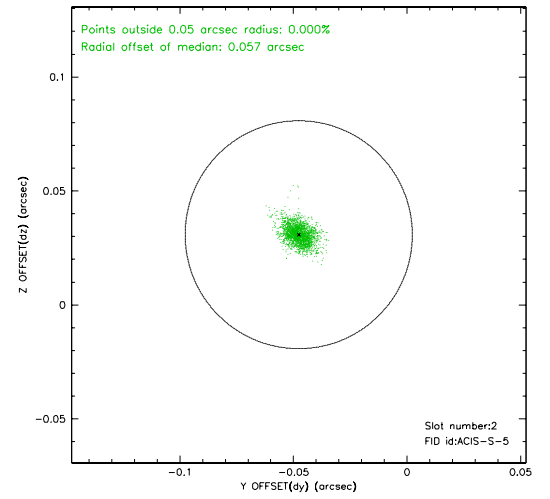
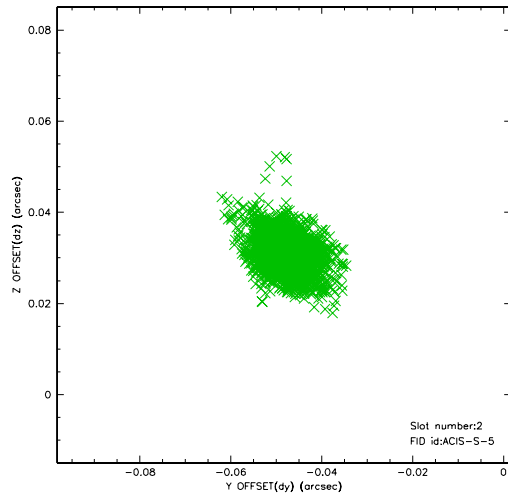
2.5.1 Slot 0



2.5.2 Slot 1

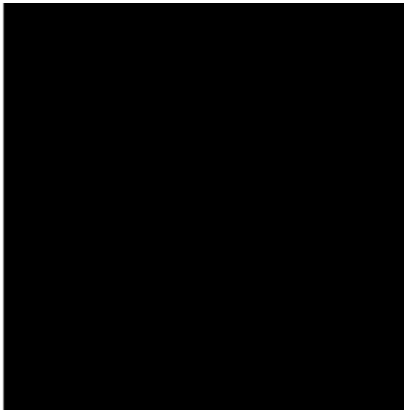


2.5.3 Slot 2

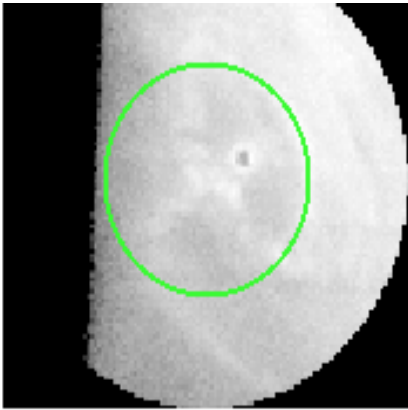


3 Gratings

3.1 HEG Arm



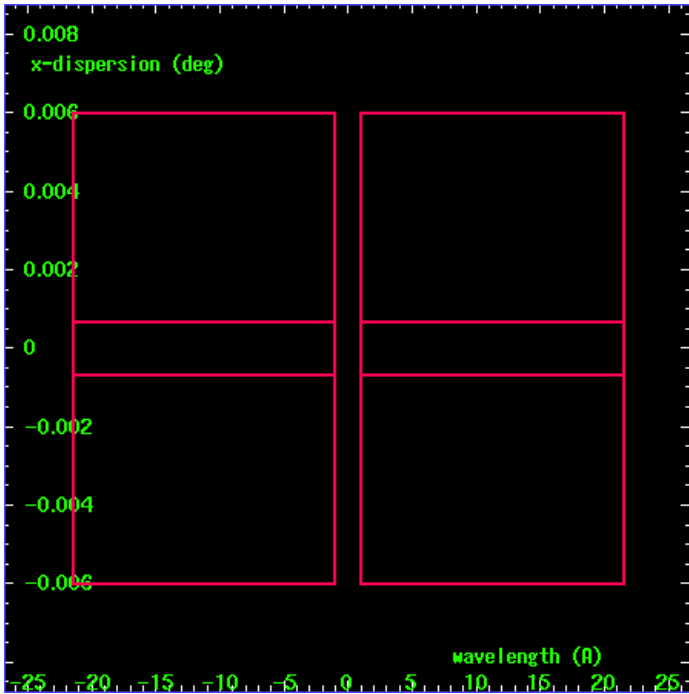
HEG Order Sort 123



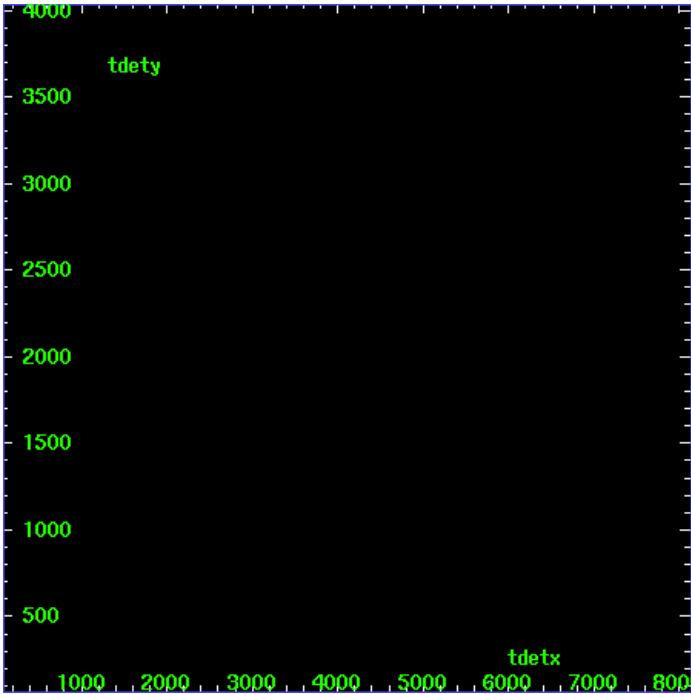
HEG Zero Order



HEG Order Sort ALL

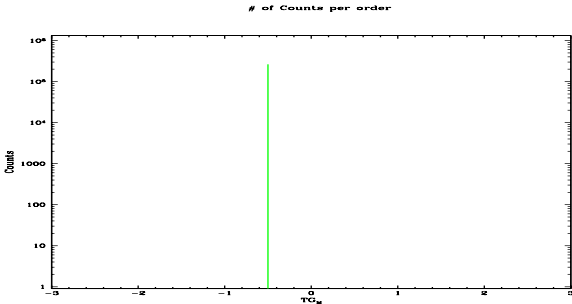


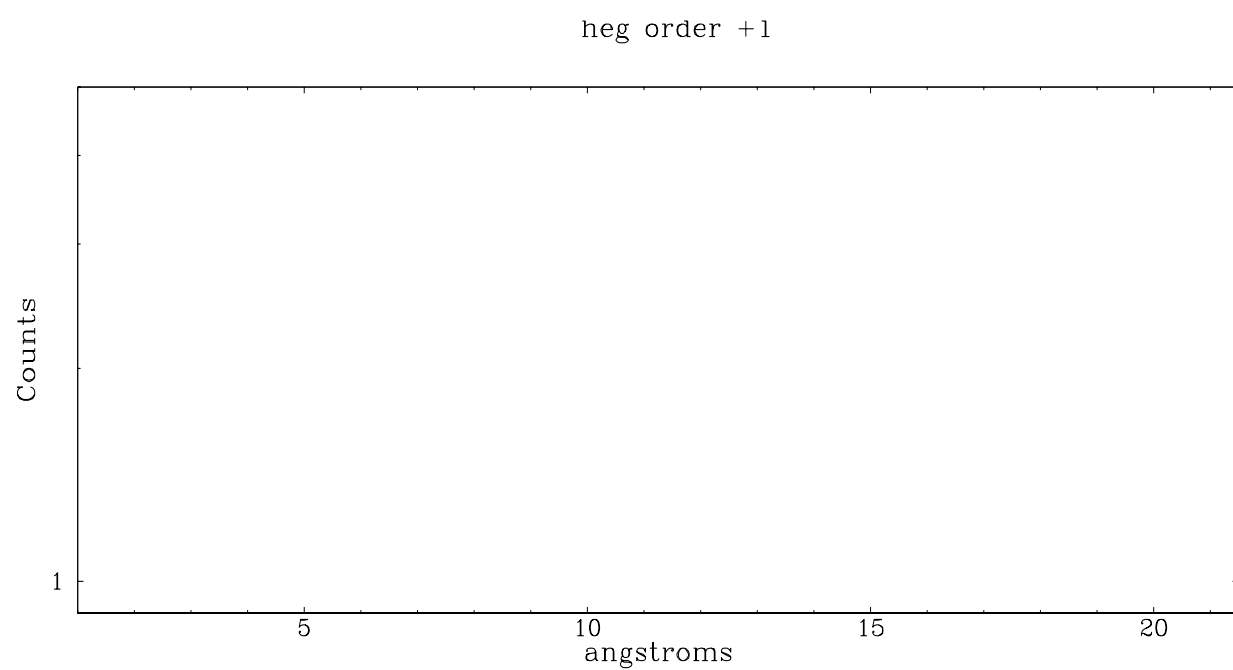
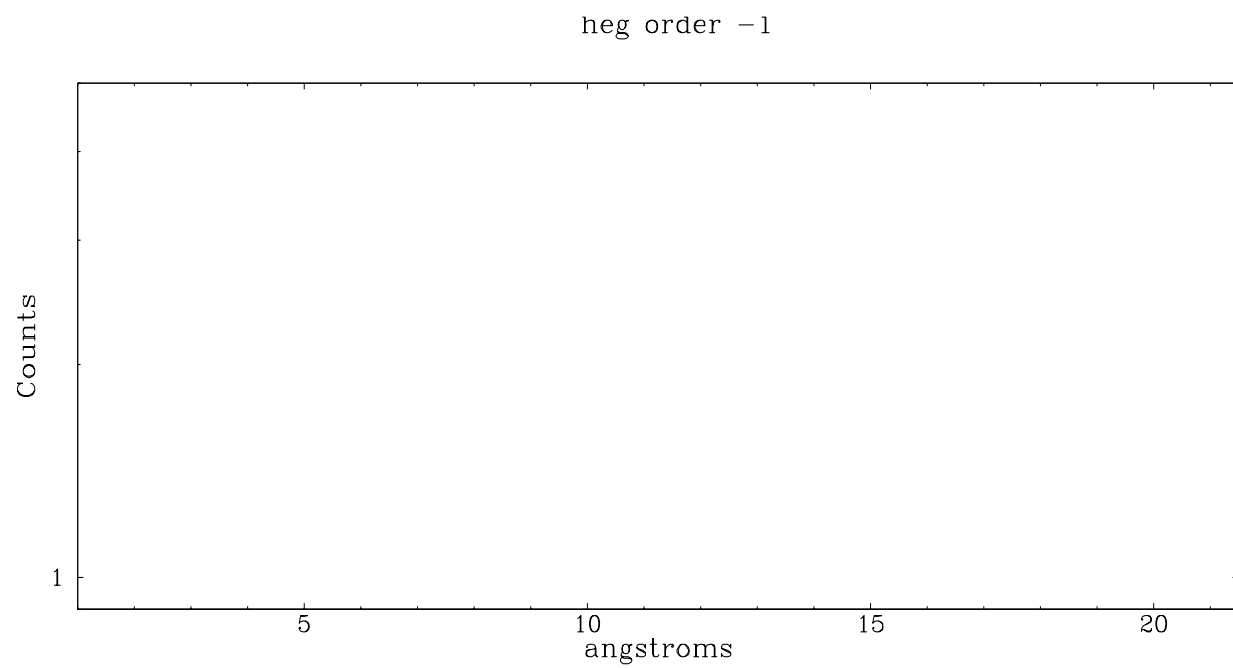
Spot Image HEG



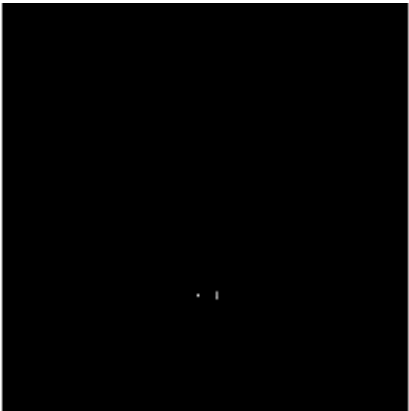
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	263284	0	0	0

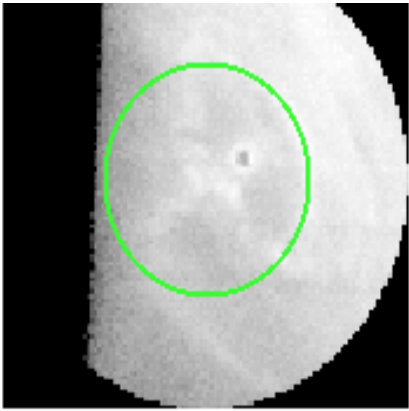




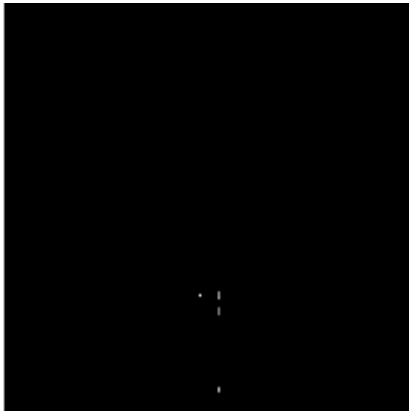
3.2 MEG Arm



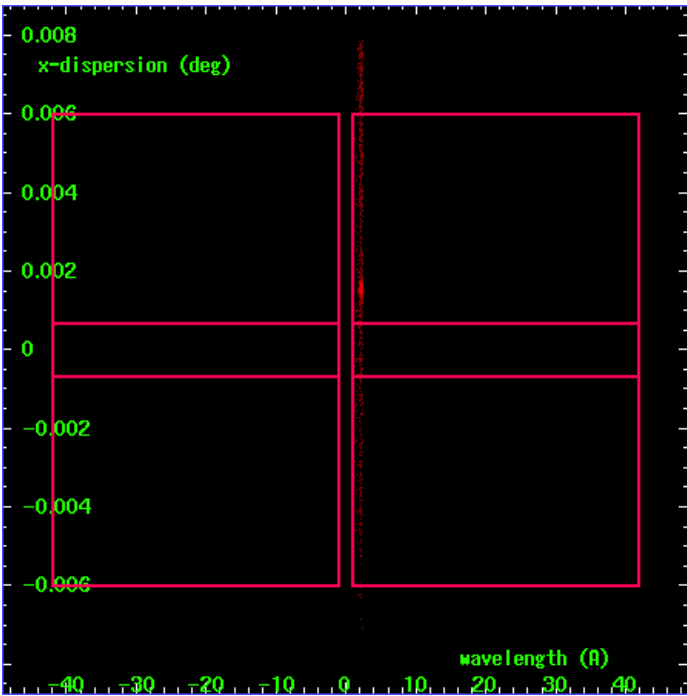
MEG Order Sort 123



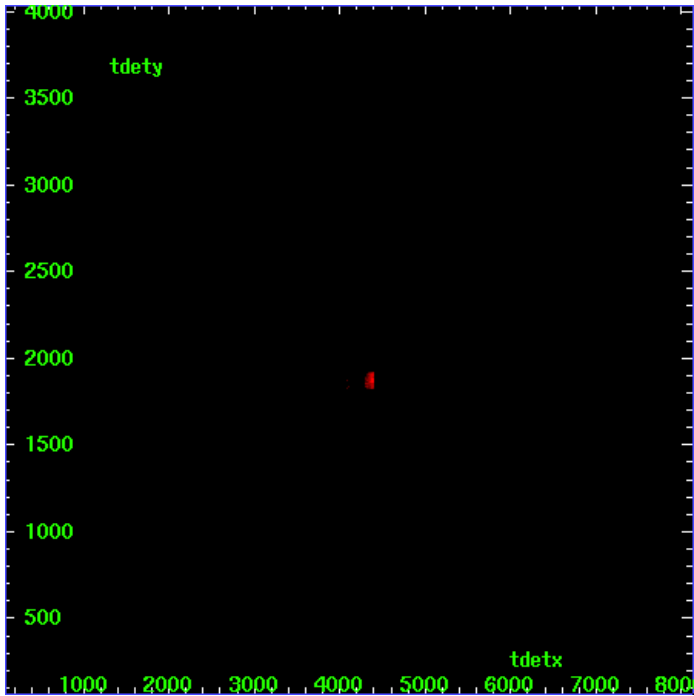
MEG Zero Order



MEG Order Sort ALL

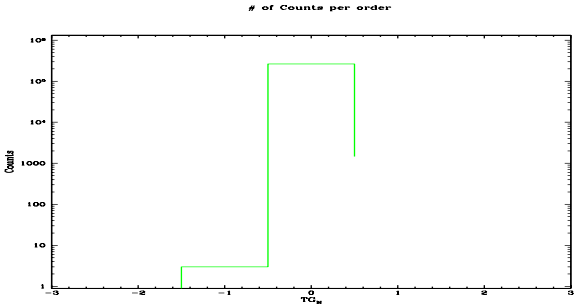


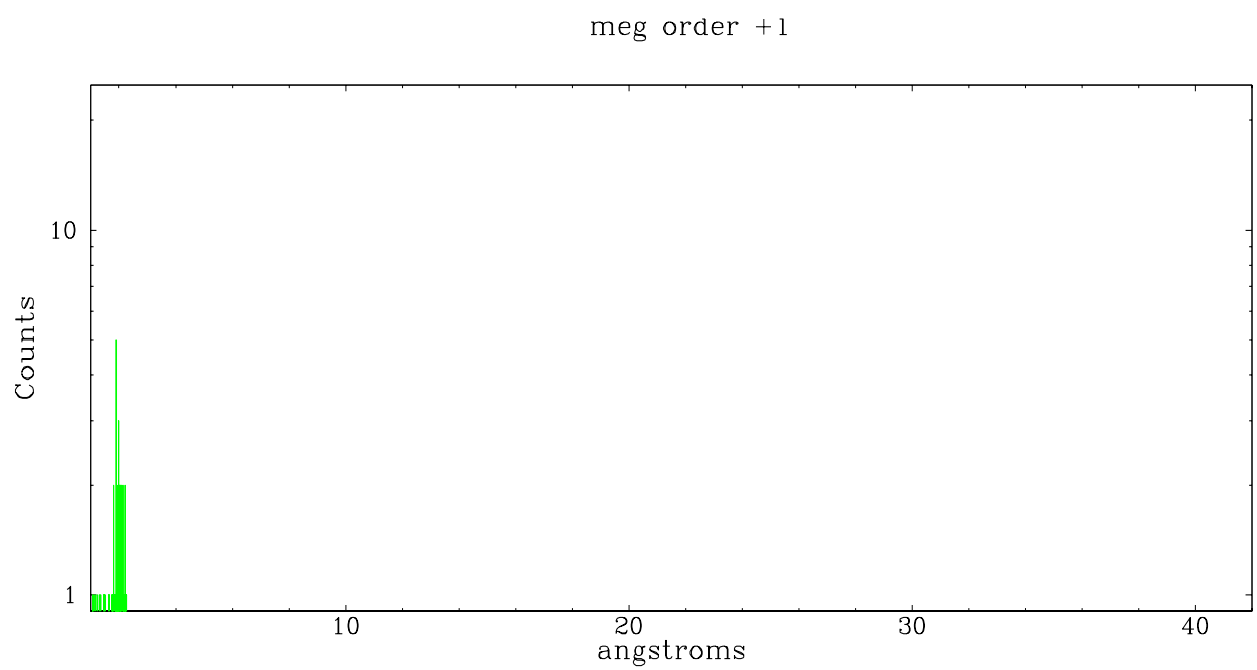
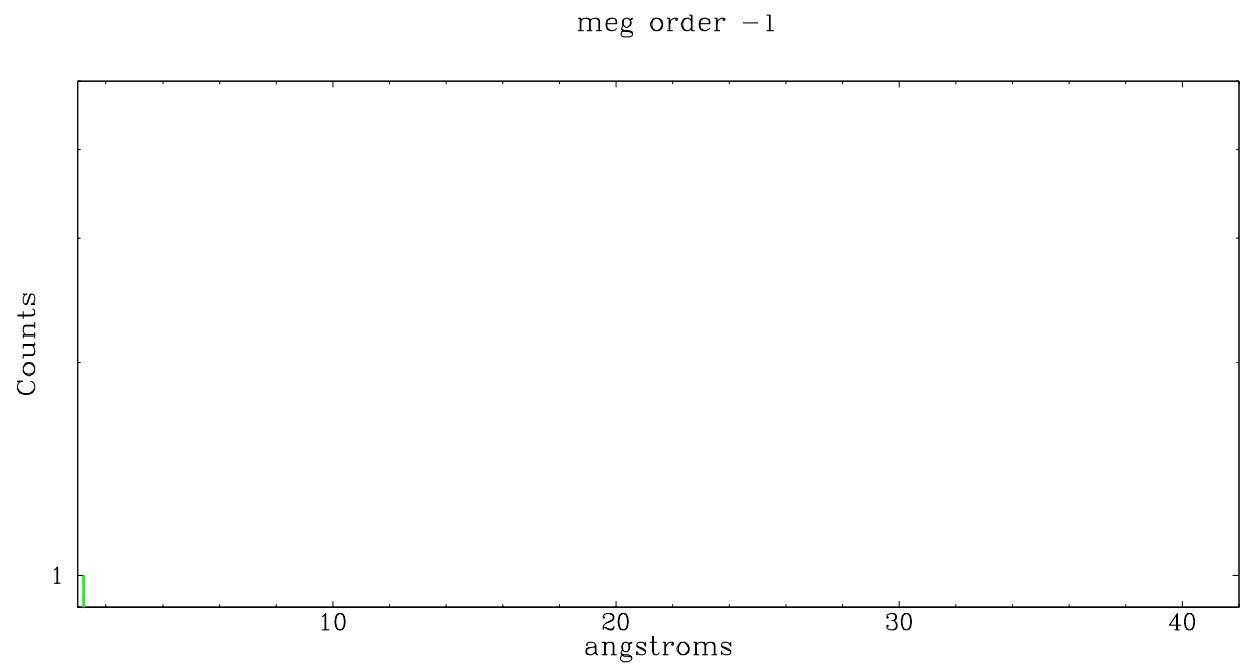
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	3	263284	1465	0	0





A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.1752

A.2 Comments

Window constraint satisfied.