

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3731 - L2 Version 001
Chandra X-Ray Center

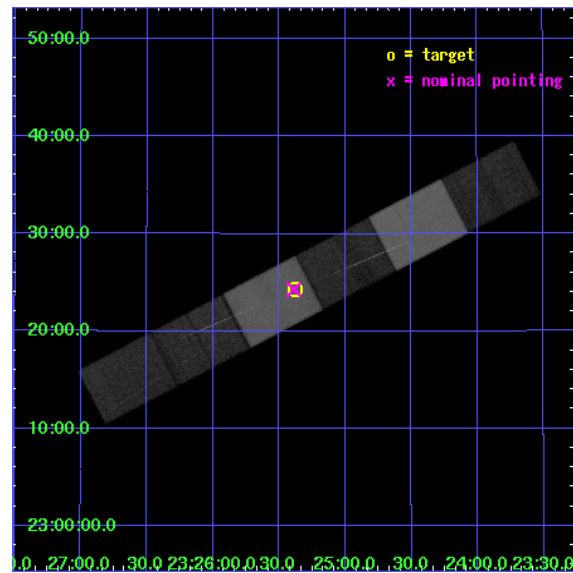
L2 Processing Date : Jul 7 2006

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1 Front

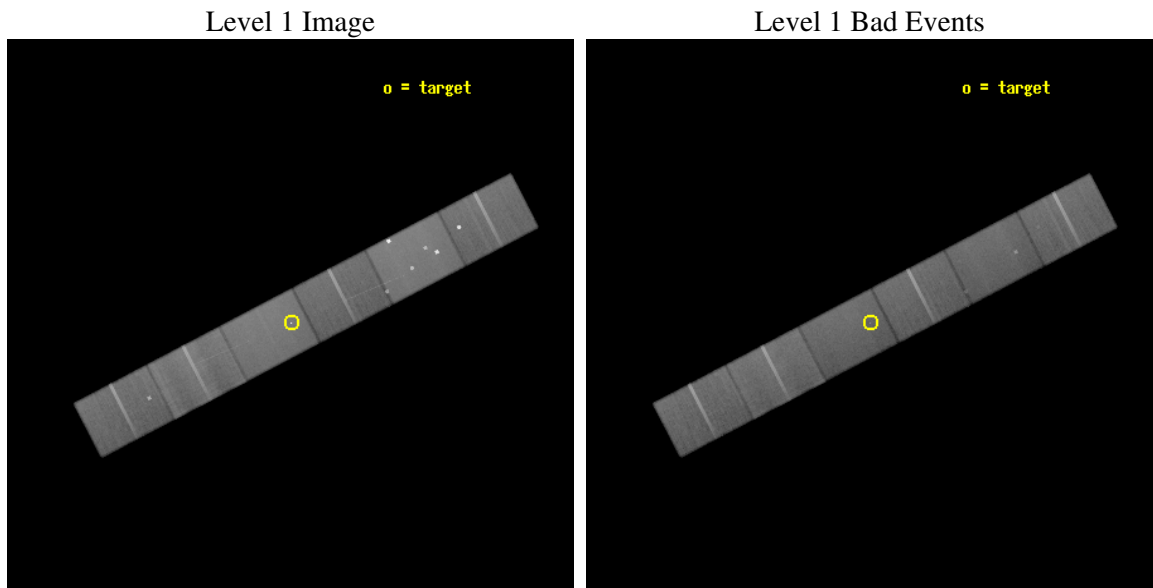
seq_num	200201
obs_id	3731
title	CORONAL STRUCTURES IN YELLOW GIANT STARS
observer	Dr. Frank Harnden Jr.
object	HD 220657
dtcycle	0
cycle	P
ra_targ	351.345
dec_targ	23.404111
ra_nom	351.34728183727
dec_nom	23.404896513094
roll_nom	152.51296992623
revision	2
ontime	108540.0
livetime	106786.98485659
ontime4	108537.45901975
ontime5	108540.0
ontime6	108540.0
ontime7	108540.0
ontime8	108540.0
ontime9	108540.0
l2events	766370



2 OBI

2.1 OBI

2.1.1 Images

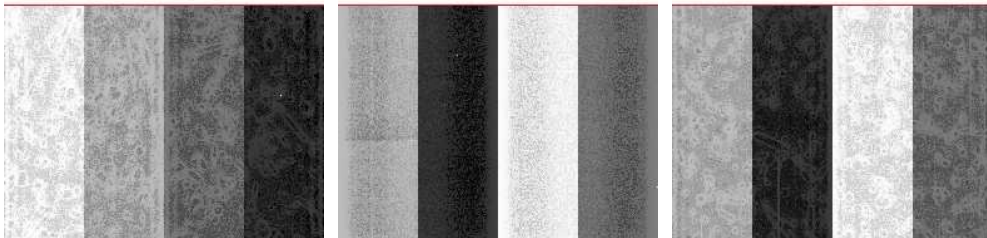


2.1.2 Bias

Chip 4

Chip 5

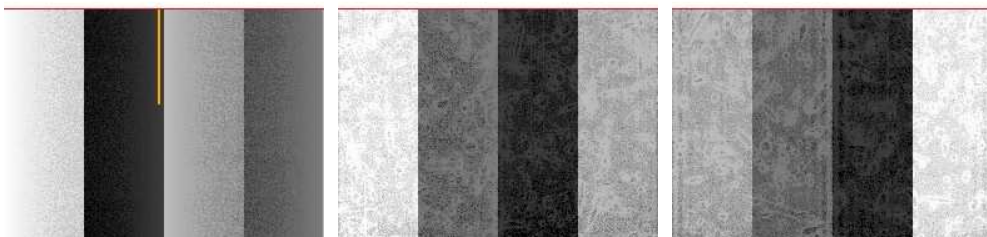
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-07T19:24:42
revision	2

sched_exp_time	108512.000000
ontime	108542.04250383
ontime4	108539.50152358
ontime5	108542.04250383
ontime6	108542.04250383
ontime7	108542.04250383
ontime8	108542.04250383
ontime9	108542.04250383
l1events	3650887

2.1.4 Events

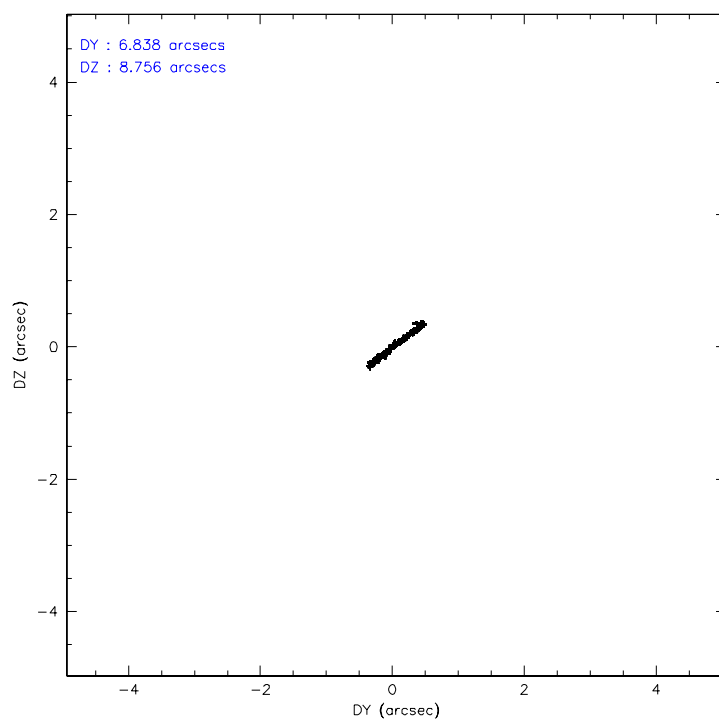
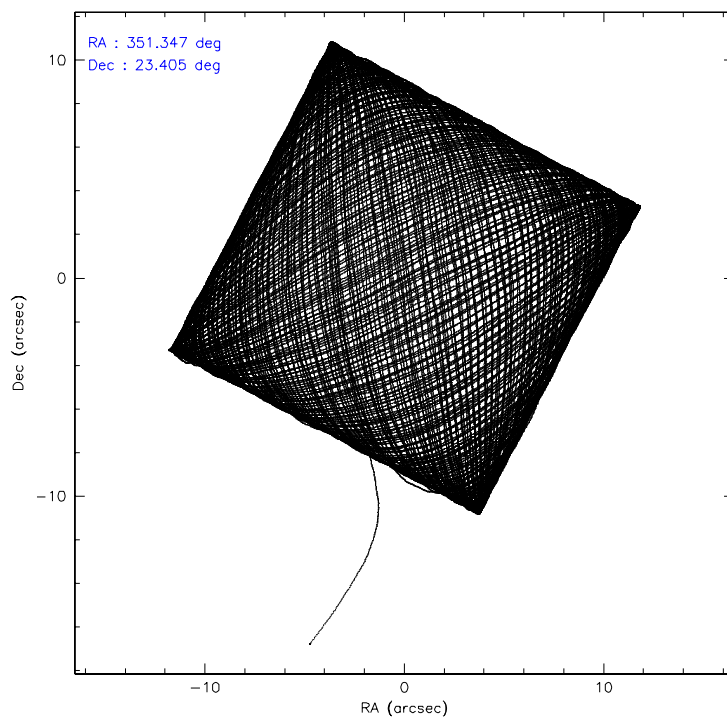
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	577532	790061	496577	659298	629603	497816
rejected events	487502	403273	436744	398412	498855	431860
rejected %	84%	51%	87%	60%	79%	86%

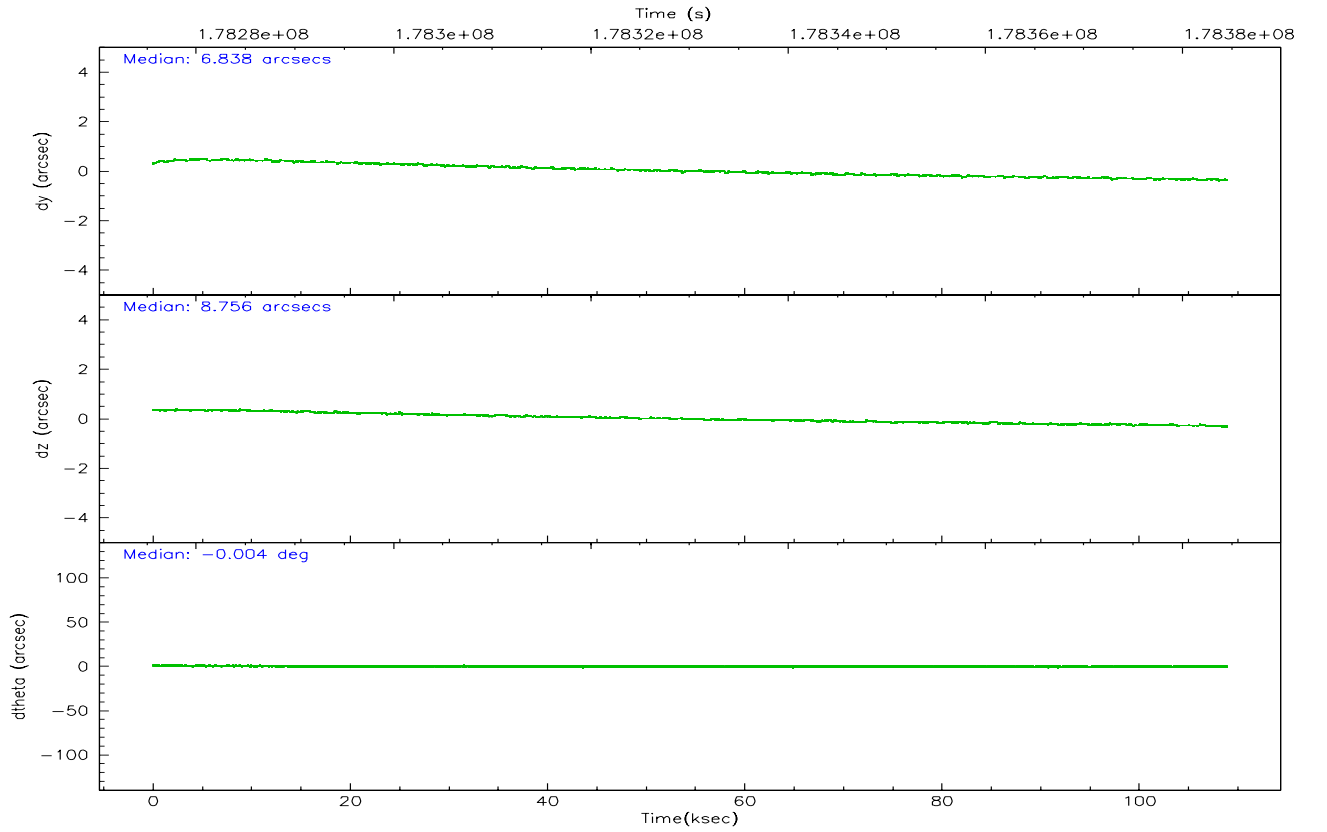
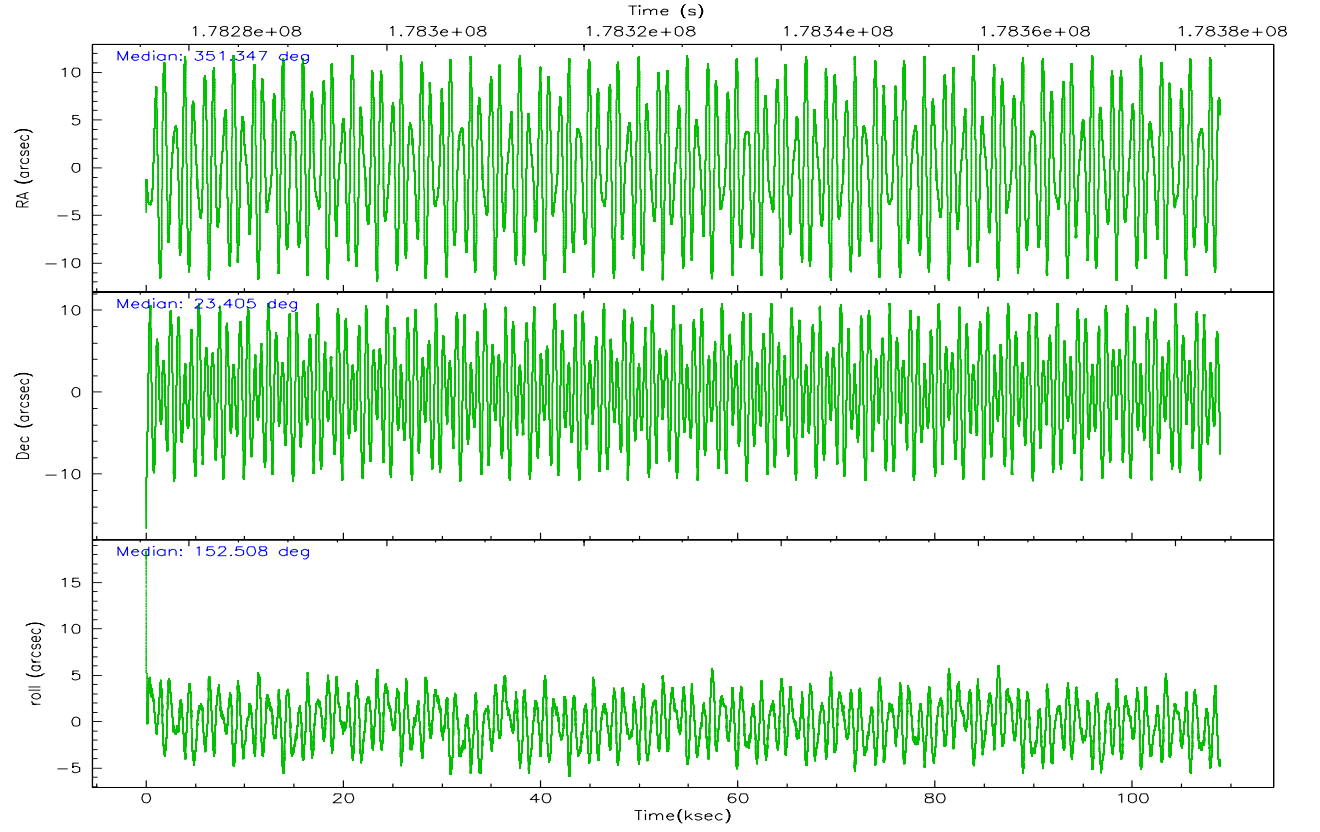
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	54161	82735	24012	16781	41576	29744
	9%	10%	4%	2%	6%	5%
grade 1 events	497	3174	198	444	338	294
	0%	0%	0%	0%	0%	0%
grade 2 events	12996	106601	11703	62935	27672	11671
	2%	13%	2%	9%	4%	2%
grade 3 events	6717	8429	6332	15784	14356	6548
	1%	1%	1%	2%	2%	1%
grade 4 events	6297	8122	6190	15338	13648	6320
	1%	1%	1%	2%	2%	1%
grade 5 events	20472	35889	21966	46691	28461	23203
	3%	4%	4%	7%	4%	4%
grade 6 events	9860	180907	11597	150053	33499	11674
	1%	22%	2%	22%	5%	2%
grade 7 events	466532	364204	414579	351272	470053	408362
	80%	46%	83%	53%	74%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	351.376895	351.3472818372658	Subarray start row	1	1
Pointing Dec	23.406461	23.40489651309363	Subarray row count	747	747
Pointing Roll	152.344574	152.5129699262304	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	2.5
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	178276014.184000	178274935.15966			
Observation start date	2003-08-26T09:05:50	2003-08-26T08:48:55			
Observation end time	178384526.184000	178385427.08939			
Observation end date	2003-08-27T15:14:22	2003-08-27T15:30:27			
Read mode	TIMED	TIMED			

2.3 Aspect



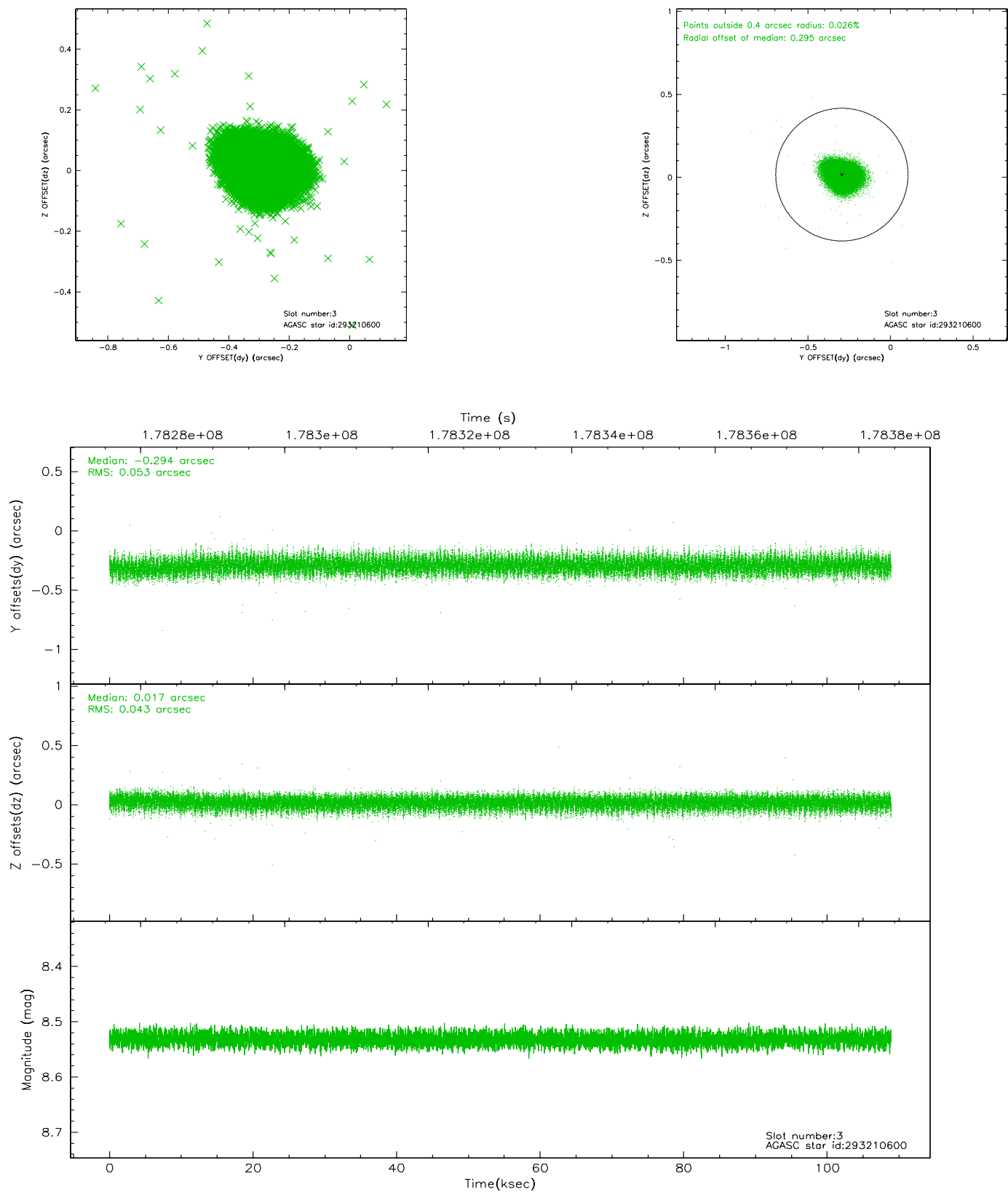


Slot Statistics

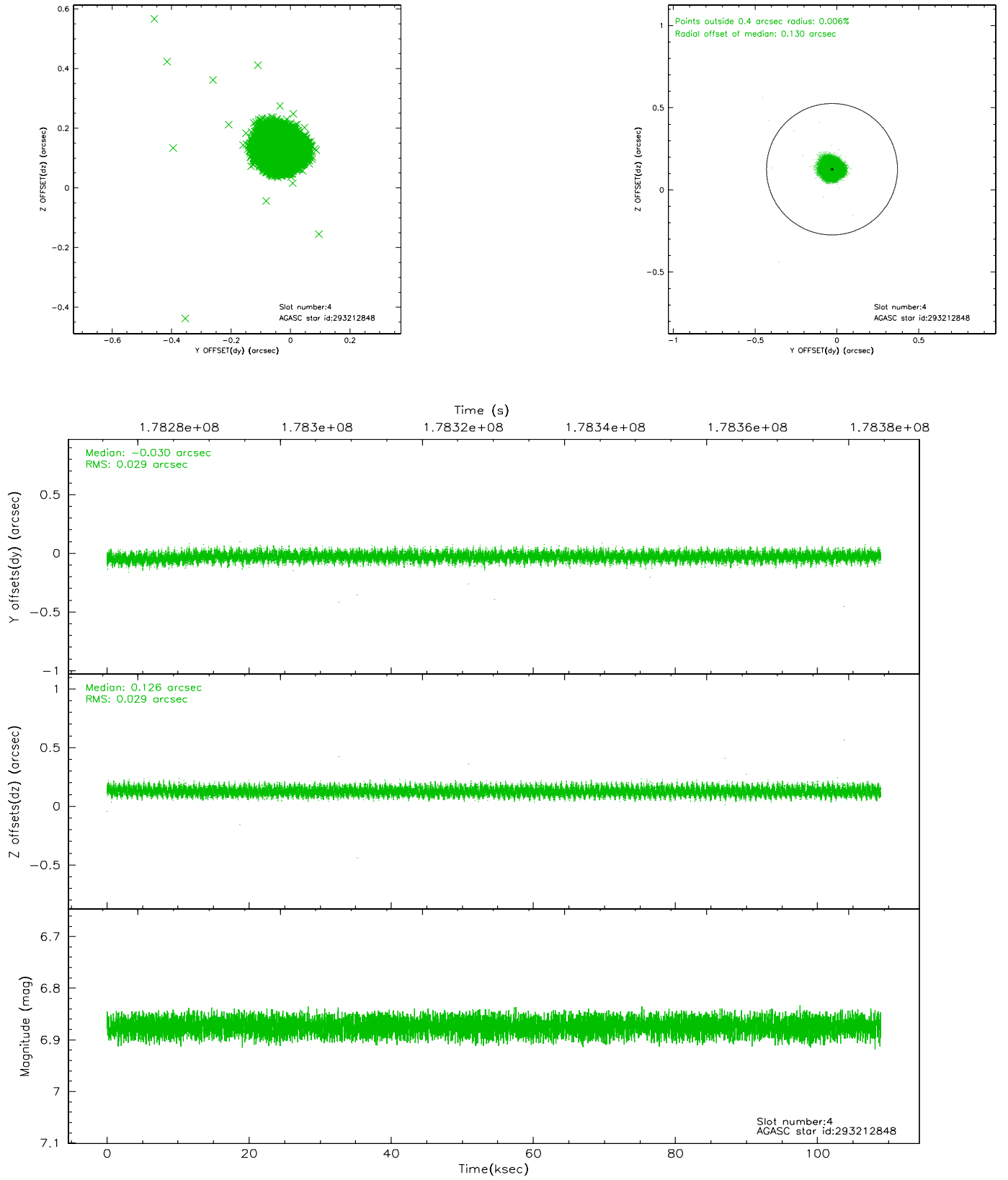
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	26565	-0.069	-0.021	0.010	0.023	0.000000	0.000000	-759.47	-1792.10
1	FID	ACIS-S-4	7.20	26565	0.062	0.039	0.006	0.033	0.000000	0.000000	2153.97	116.55
2	FID	ACIS-S-5	7.23	26564	-0.023	-0.008	0.009	0.015	0.000000	0.000000	-1812.40	110.05
3	GUIDE	293210600	8.53	53118	-0.294	0.017	0.072	0.116	351.085680	23.994799	1831.87	-1432.00
4	GUIDE	293212848	6.87	53131	-0.030	0.126	0.044	0.070	351.079352	23.759909	1459.85	-672.29
5	GUIDE	293220160	9.09	53116	0.098	0.012	0.077	0.125	351.276990	23.059635	-286.22	1259.59
6	GUIDE	294933328	9.28	53099	0.094	-0.161	0.091	0.146	351.673121	22.693227	-2062.94	1816.85
7	GUIDE	294921312	8.63	53116	0.134	0.006	0.069	0.108	352.013258	23.575263	-1575.27	-1516.72

2.4 Star Slots

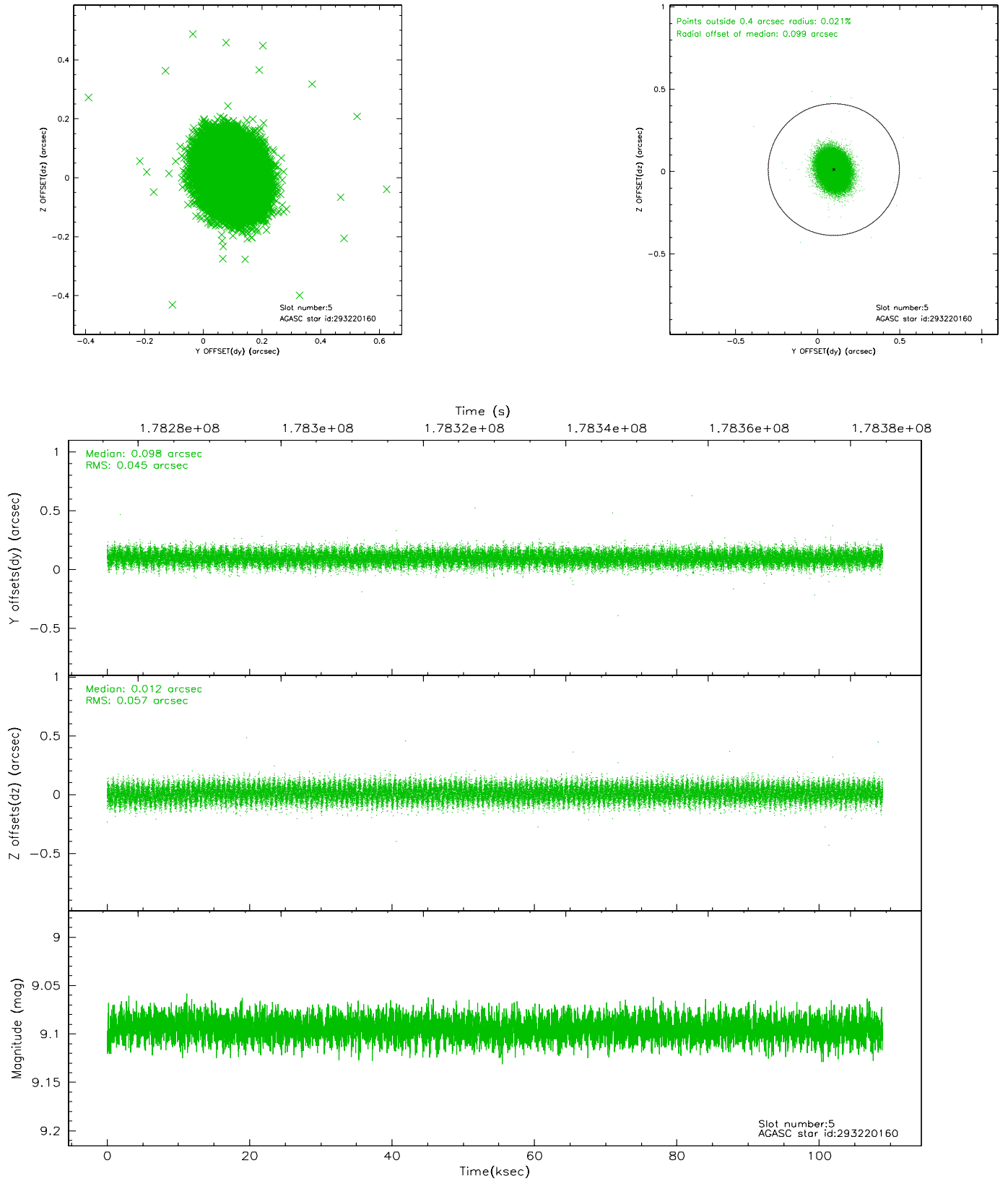
2.4.1 Slot 3



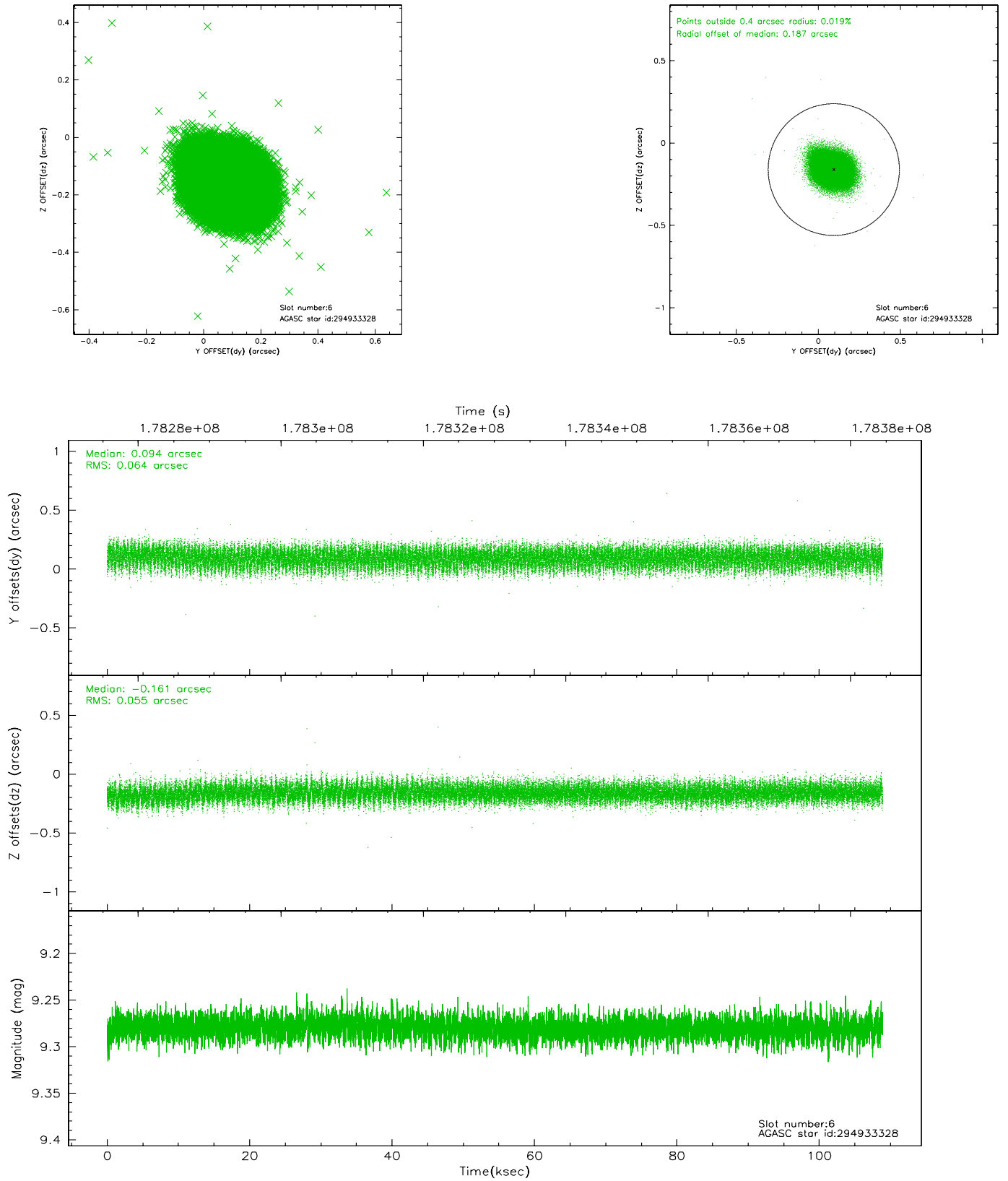
2.4.2 Slot 4



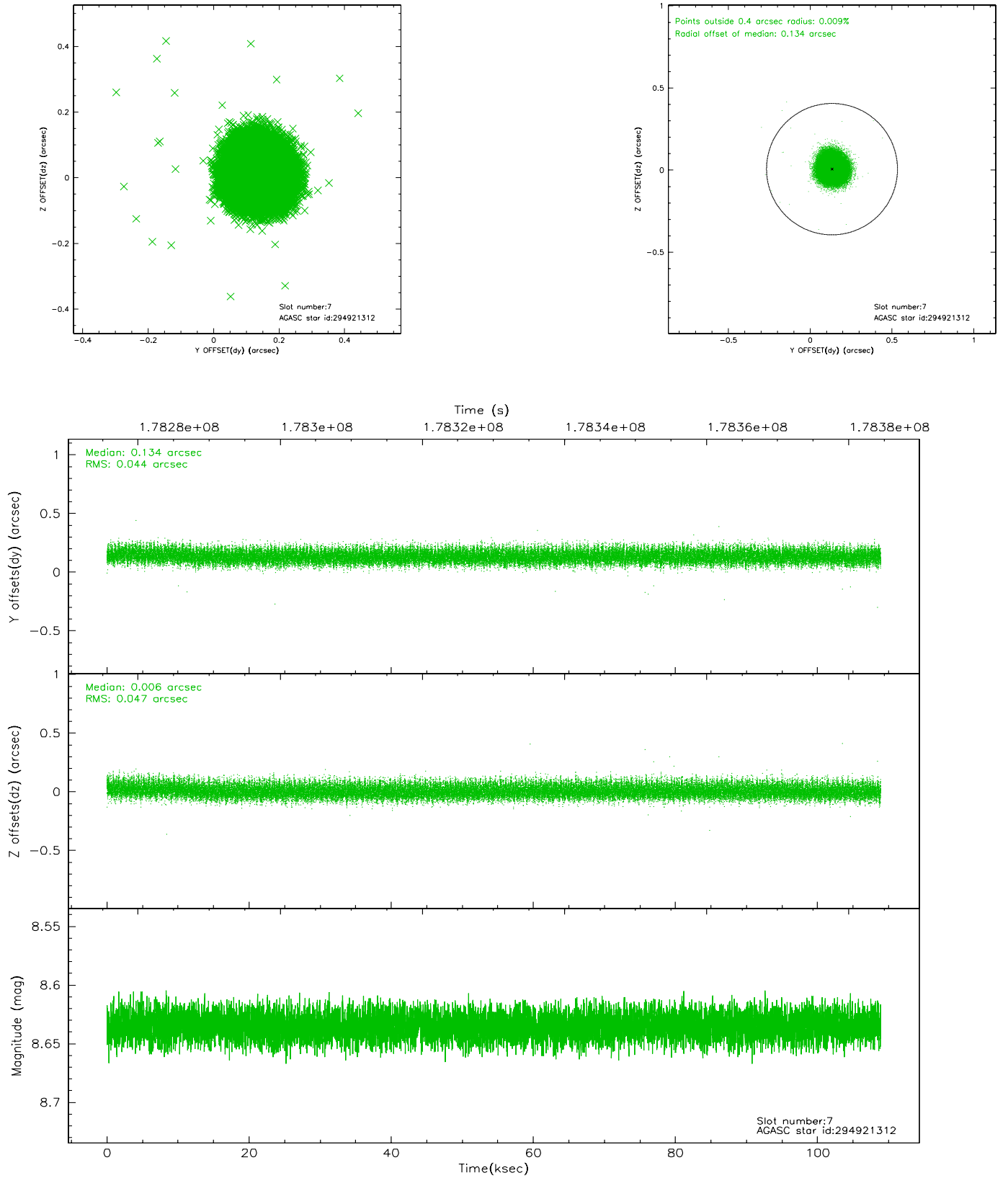
2.4.3 Slot 5



2.4.4 Slot 6

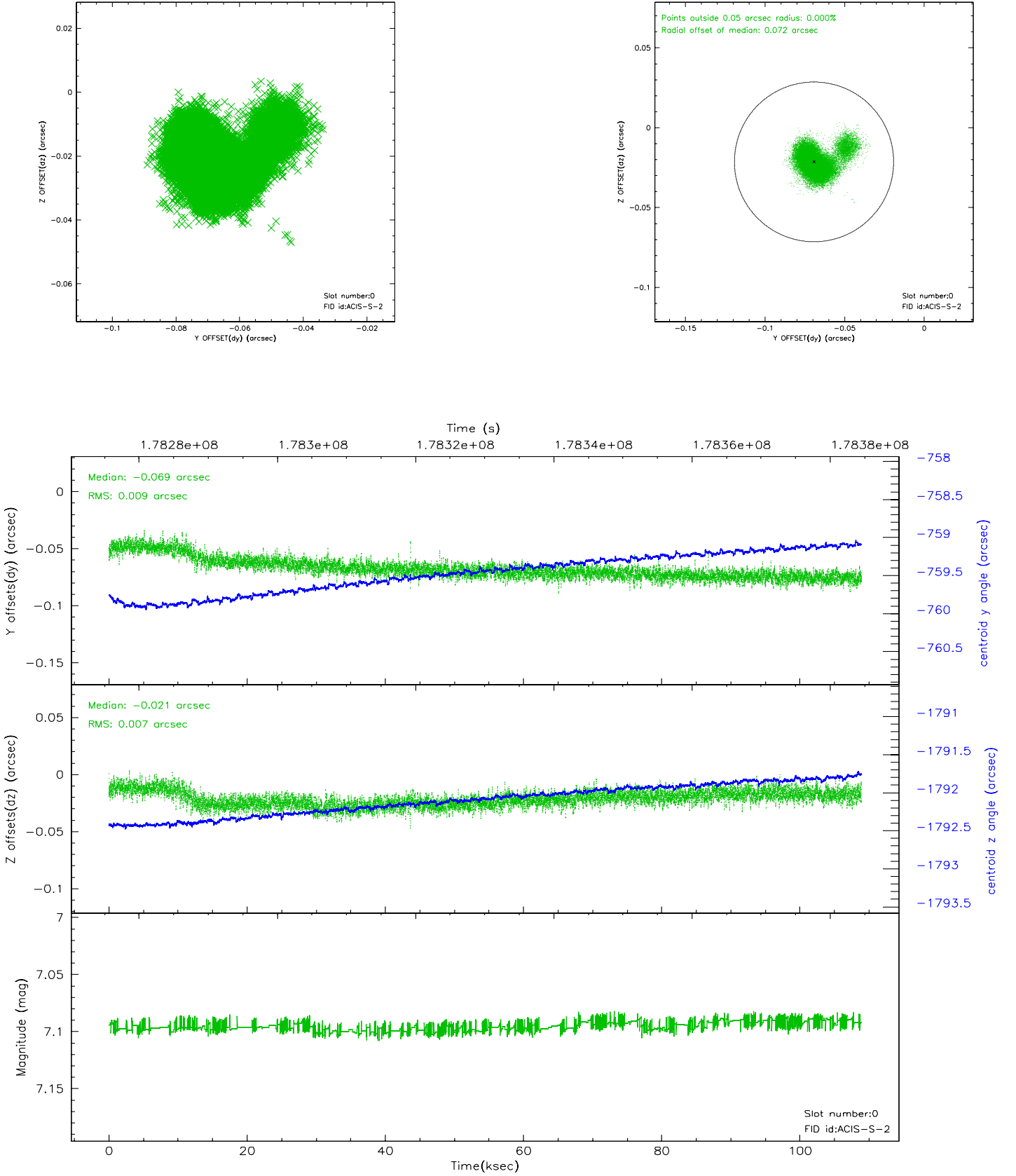


2.4.5 Slot 7

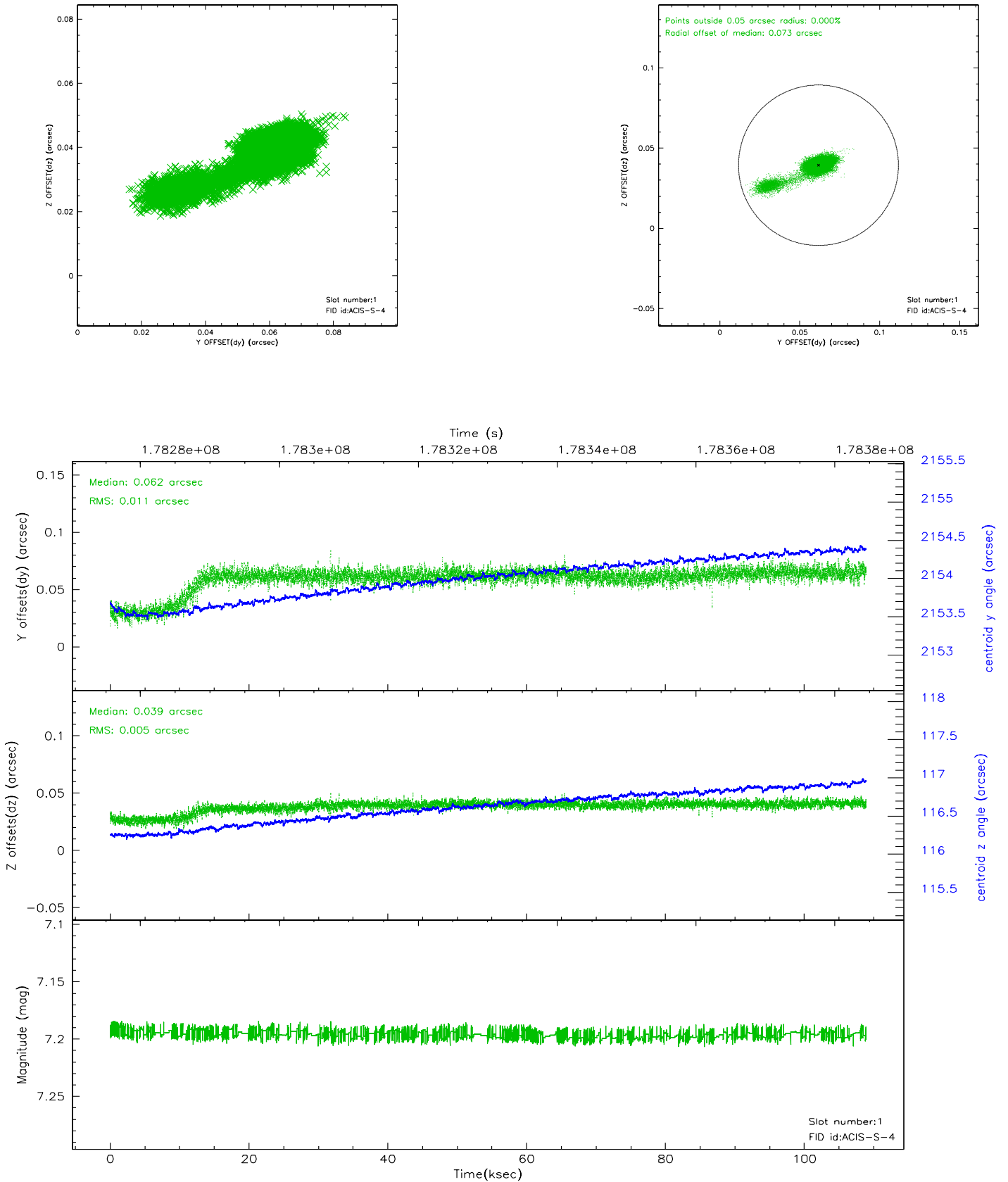


2.5 FID Slots

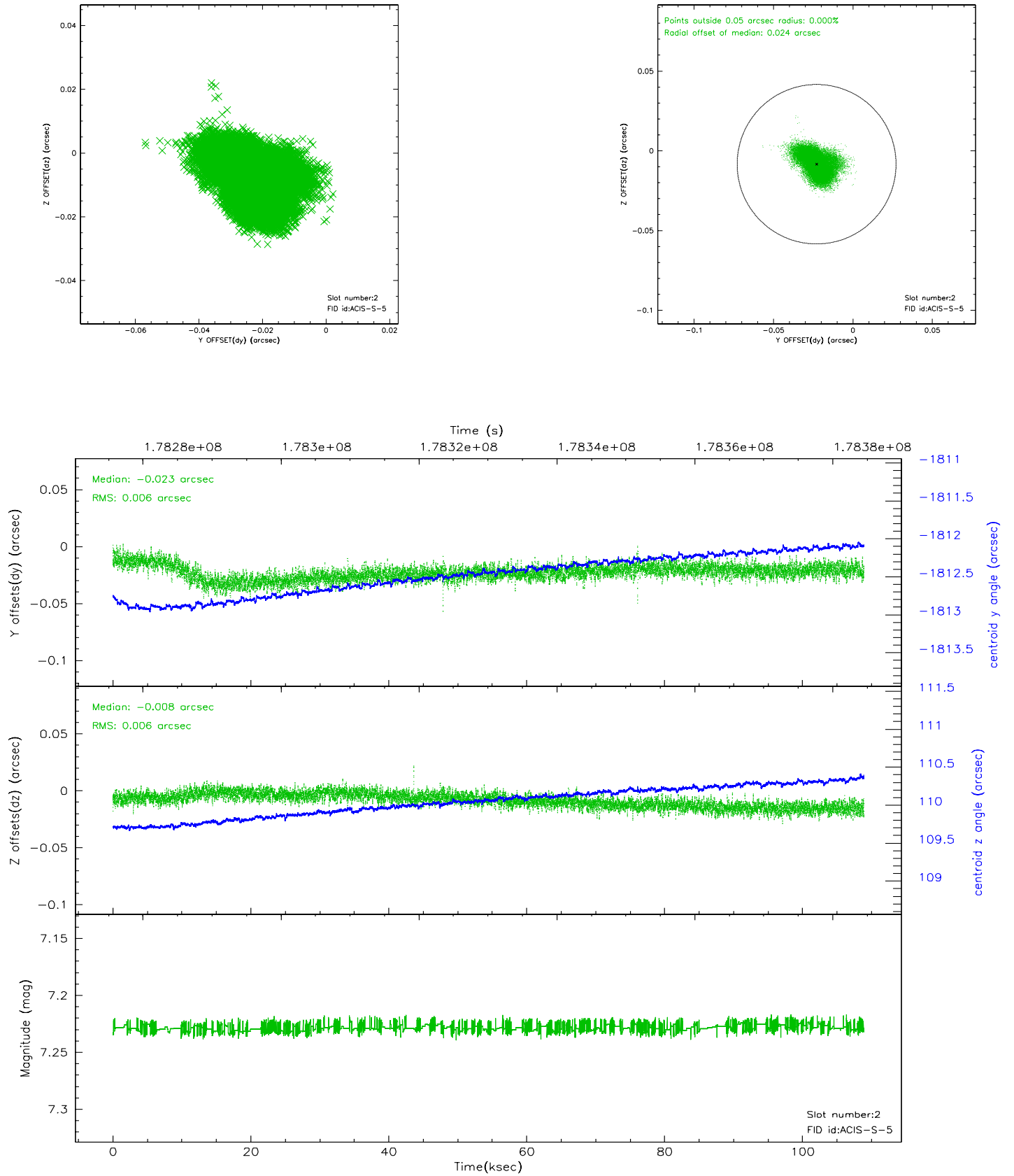
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

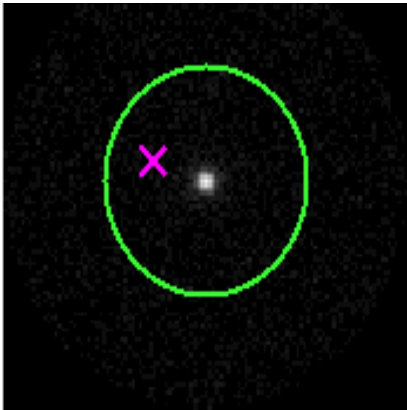


3 Gratings

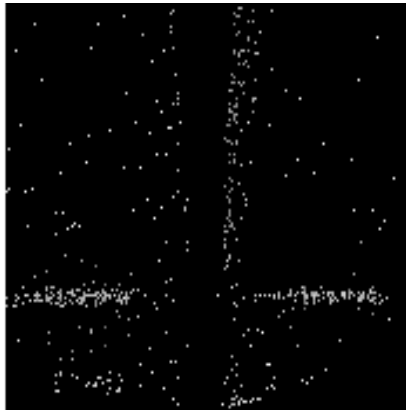
3.1 HEG Arm



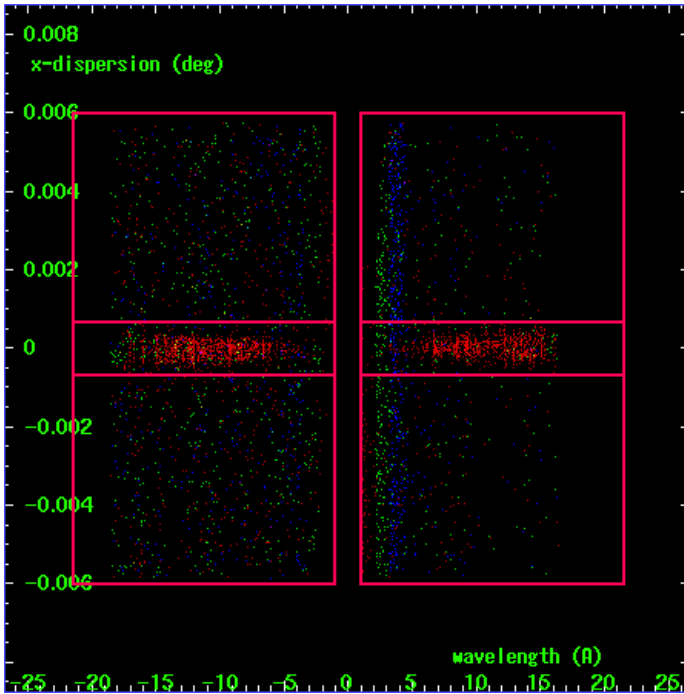
HEG Order Sort 123



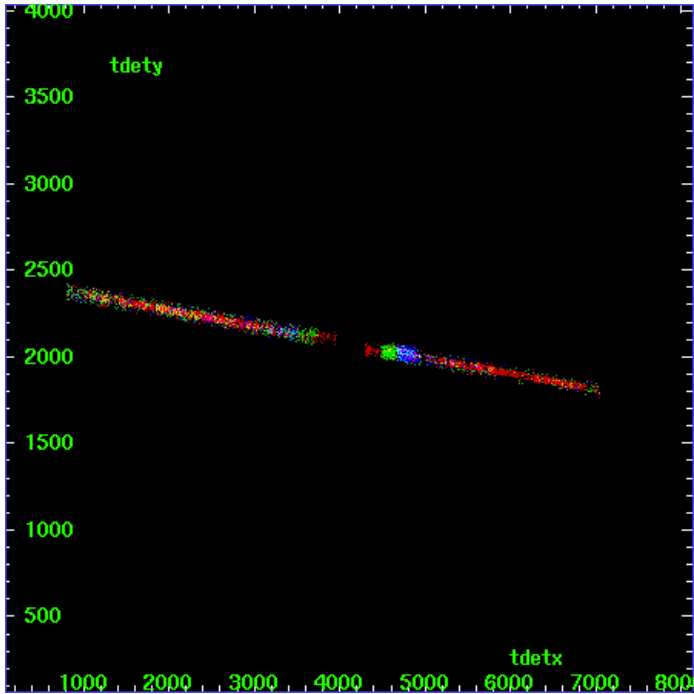
HEG Zero Order



HEG Order Sort ALL

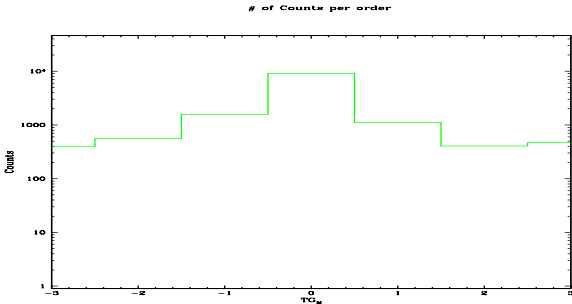


Spot Image HEG

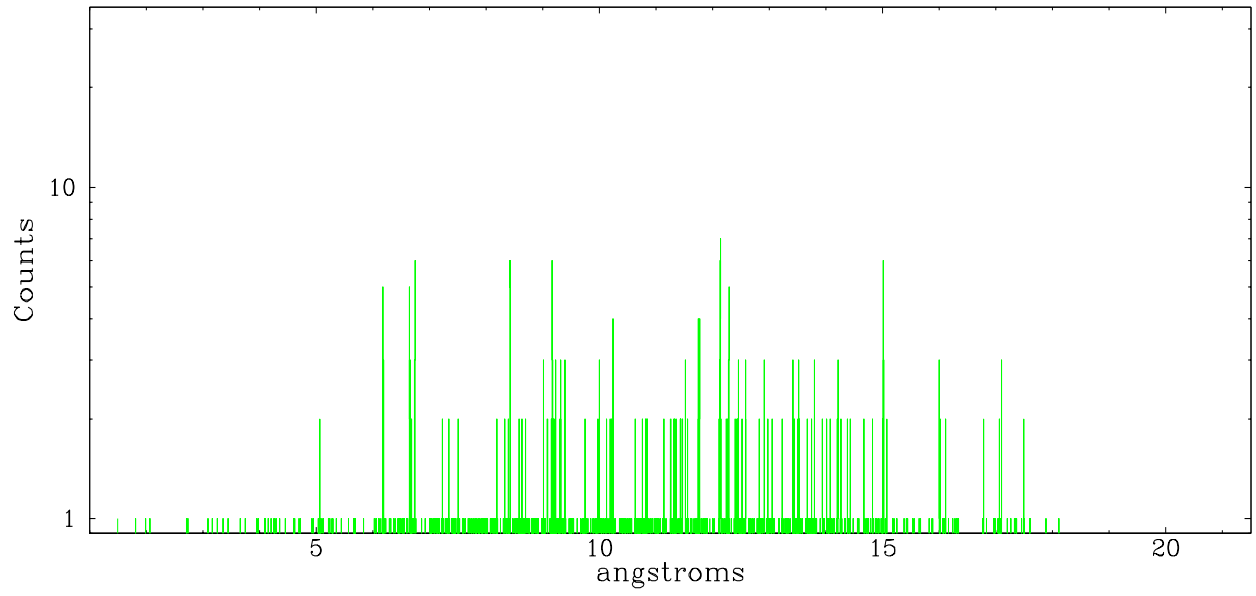


Full Detector HEG

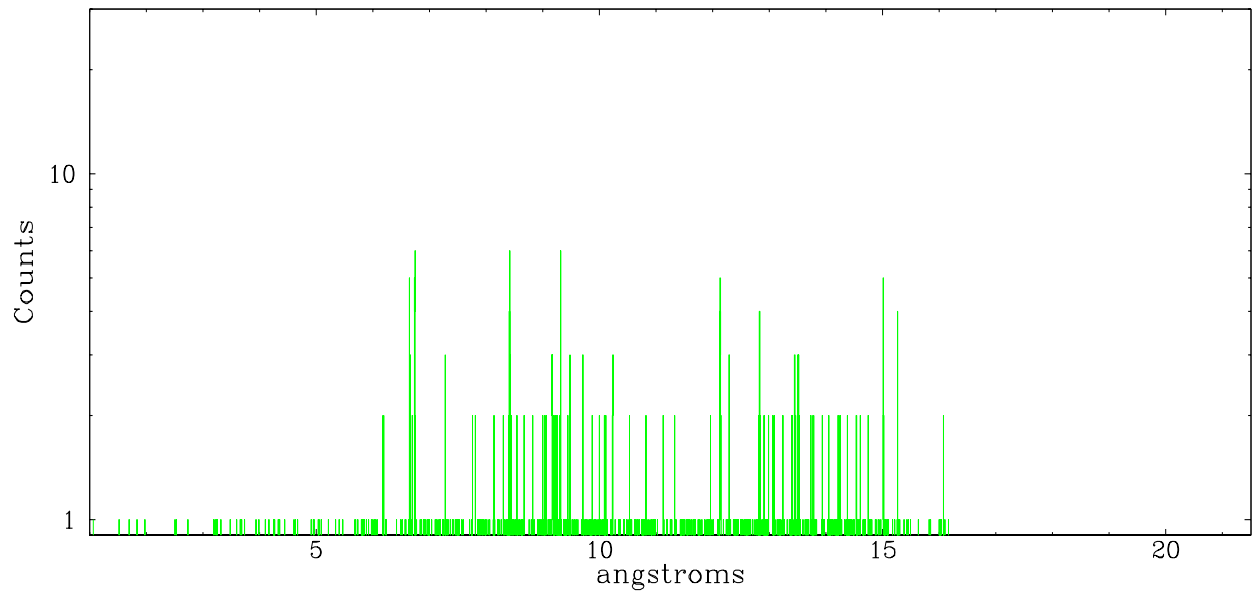
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	392	558	1572	9176	1111	403	468



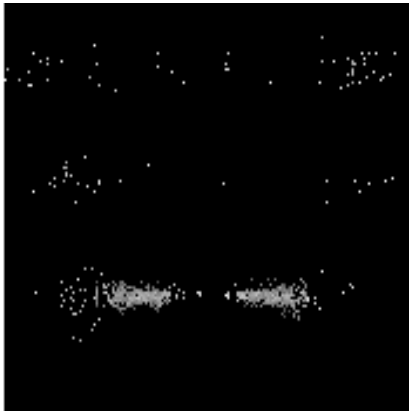
heg order -1



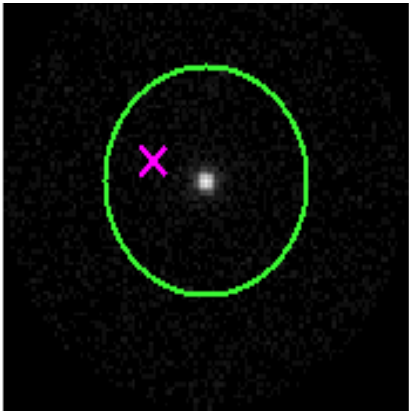
heg order +1



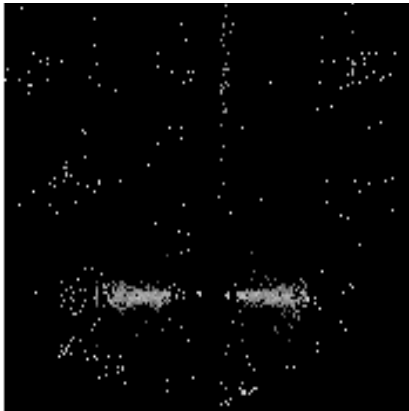
3.2 MEG Arm



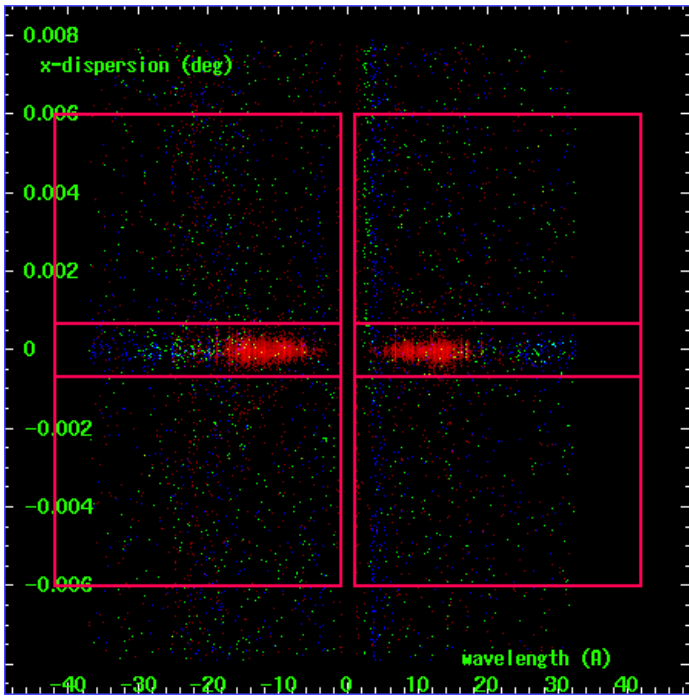
MEG Order Sort 123



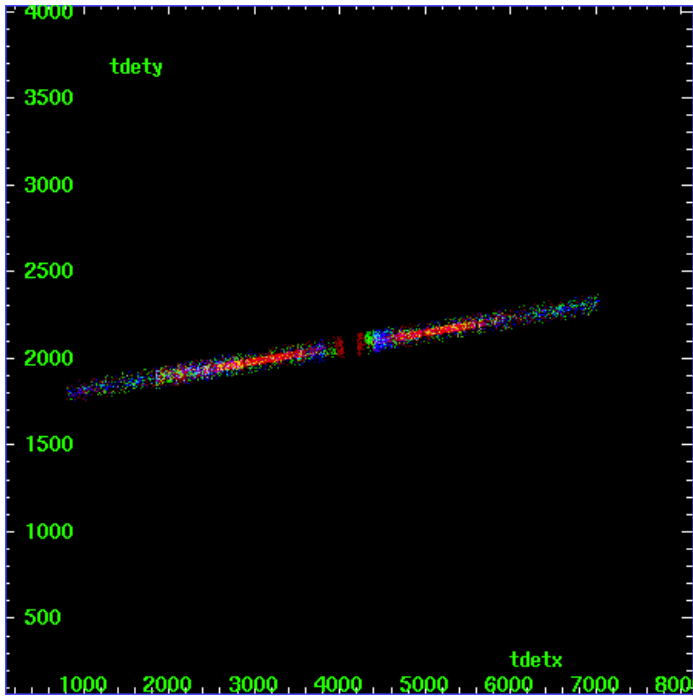
MEG Zero Order



MEG Order Sort ALL

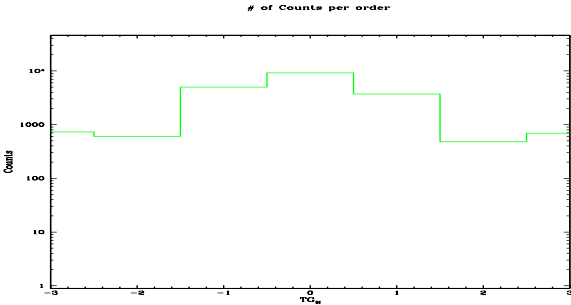


Spot Image MEG

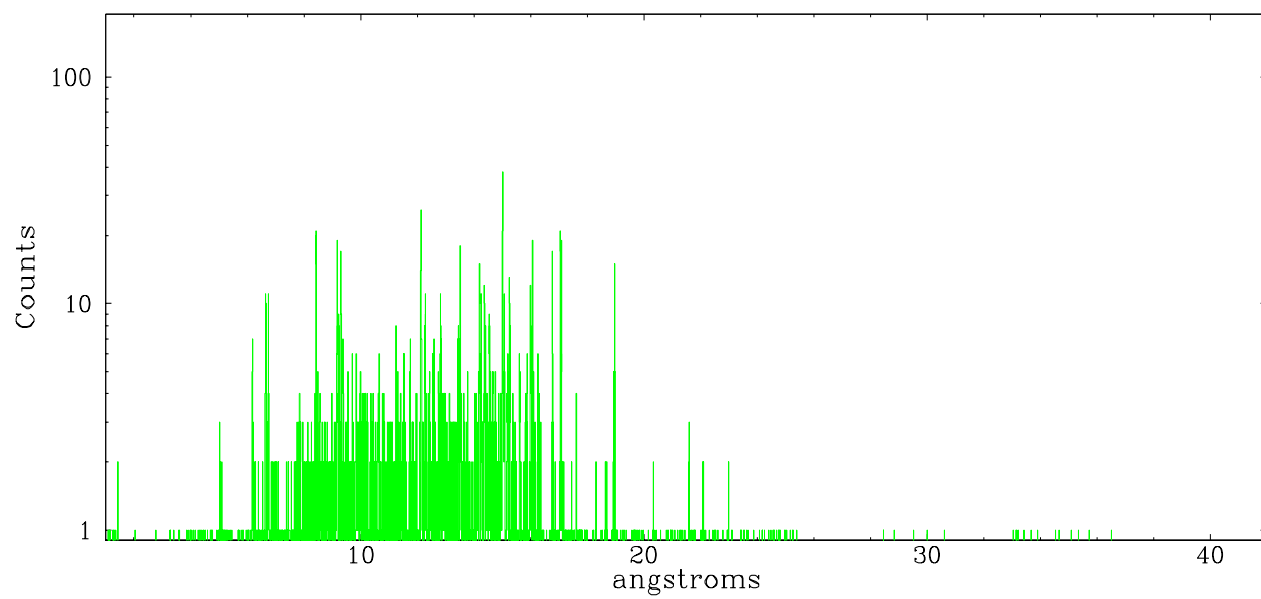


Full Detector MEG

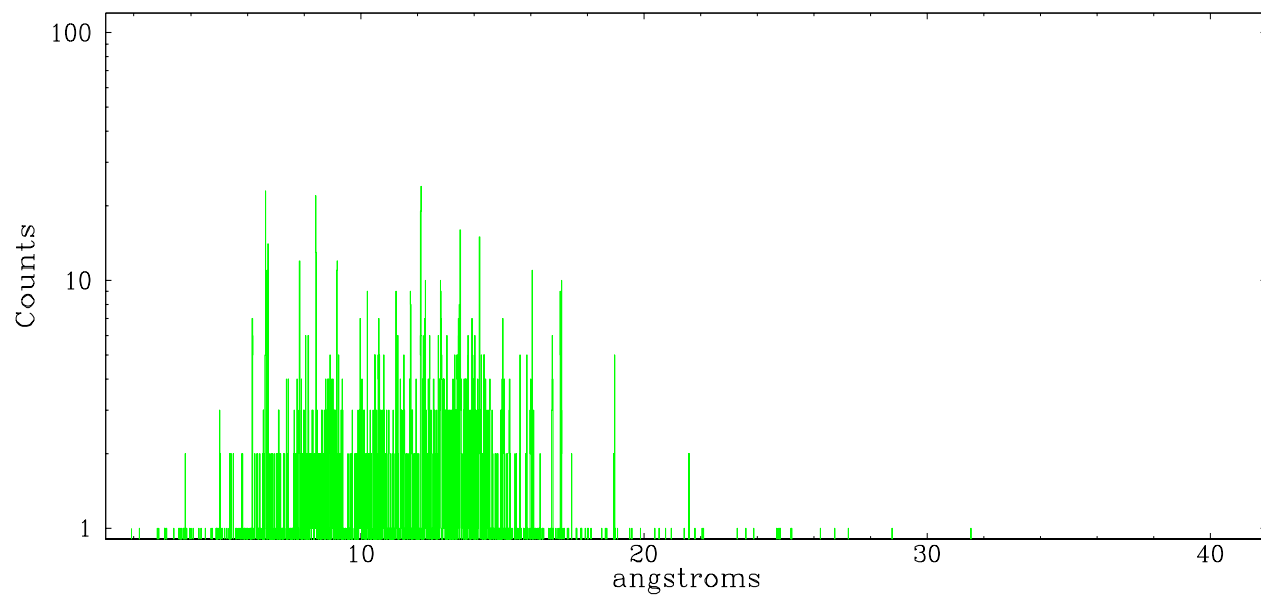
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	730	602	4984	9176	3709	479	694



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	108.54

A.2 Comments