

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4759 - L2 Version 001
Chandra X-Ray Center

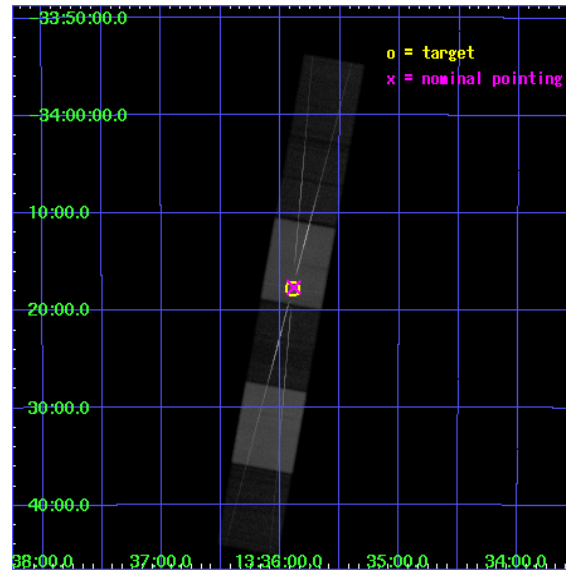
L2 Processing Date : May 18 2006

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1 Front

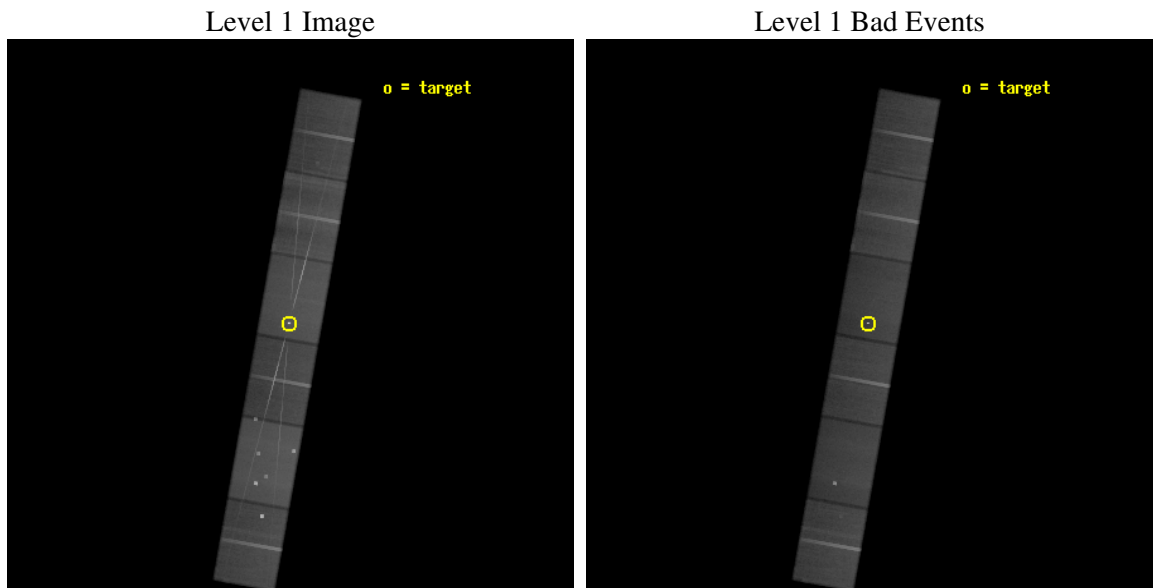
seq_num	700845
obs_id	4759
title	DISSECTING THE ENVIRONMENT OF MCG--6-30-15 WITH THE HETGS
observer	Prof. Claude Canizares
object	MCG--6-30-15
dtcycle	0
cycle	P
ra_targ	203.97375
dec_targ	-34.295833
ra_nom	203.97144840277
dec_nom	-34.294656321638
roll_nom	280.15533417503
revision	3
ontime	161137.5
livetime	158534.98961055
ontime4	161132.41797975
ontime5	161137.5
ontime6	161132.41799963
ontime7	161137.5
ontime8	161137.5
ontime9	161134.95897993
l2events	1620472



2 OBI

2.1 OBI

2.1.1 Images

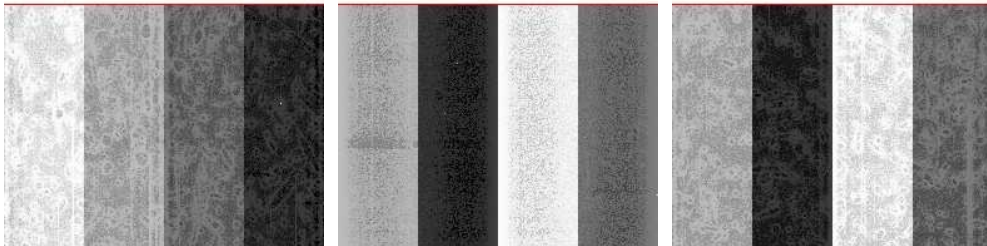


2.1.2 Bias

Chip 4

Chip 5

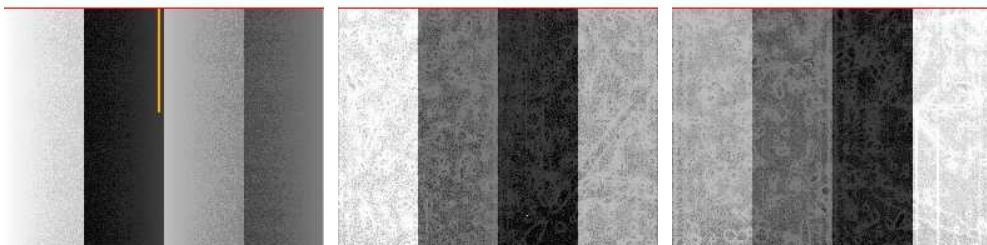
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.2
date	2006-05-17T21:43:33
revision	3

sched_exp_time	161092.723000
ontime	161141.09787461
ontime4	161136.01585436
ontime5	161141.09787461
ontime6	161136.01587424
ontime7	161141.09787461
ontime8	161141.09787461
ontime9	161138.55685455
l1events	6805929

2.1.4 Events

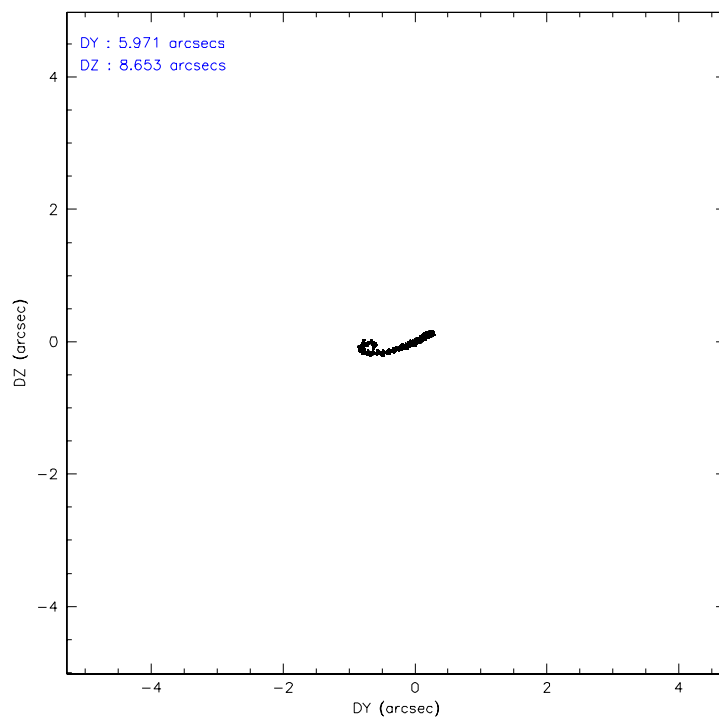
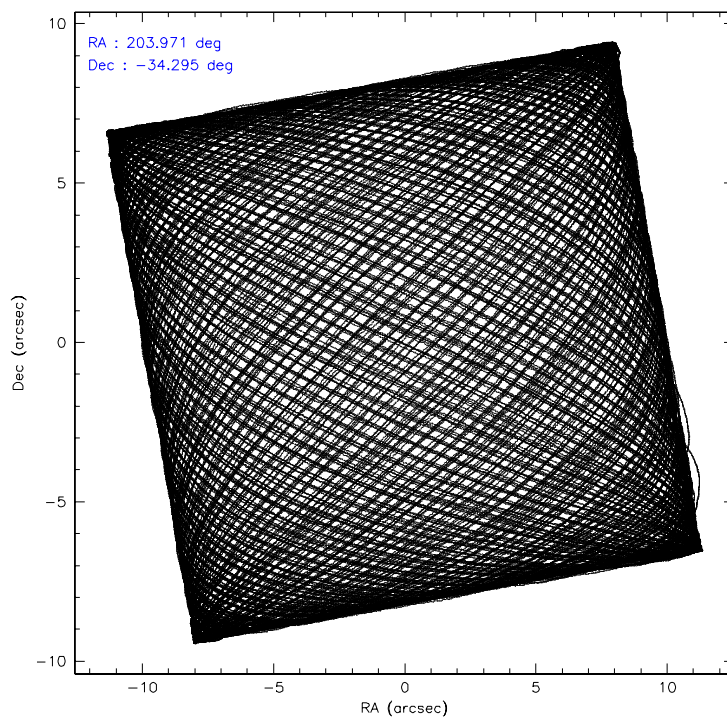
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	1033121	1394537	982746	1327808	1169336	898381
rejected events	871195	749865	803777	750549	894739	781264
rejected %	84%	53%	81%	56%	76%	86%

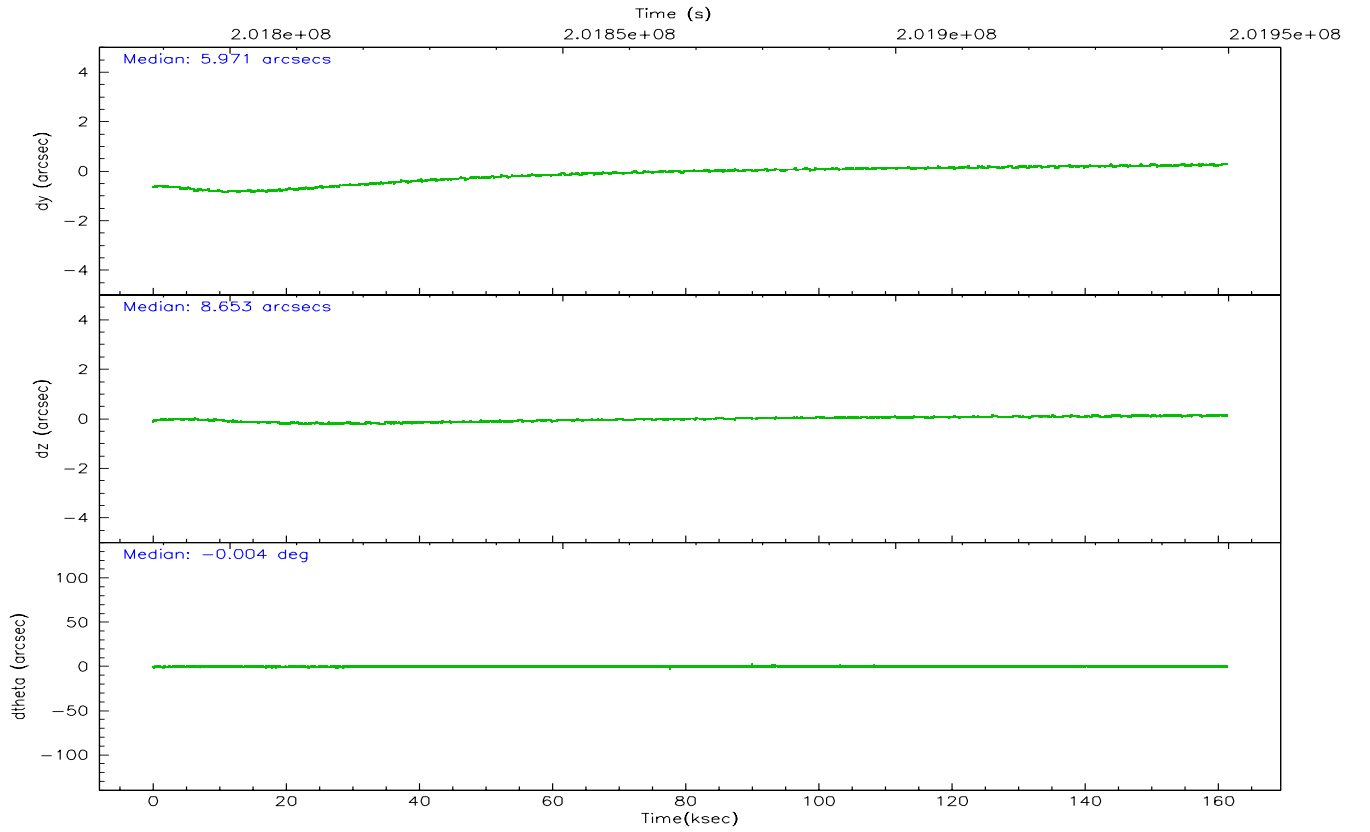
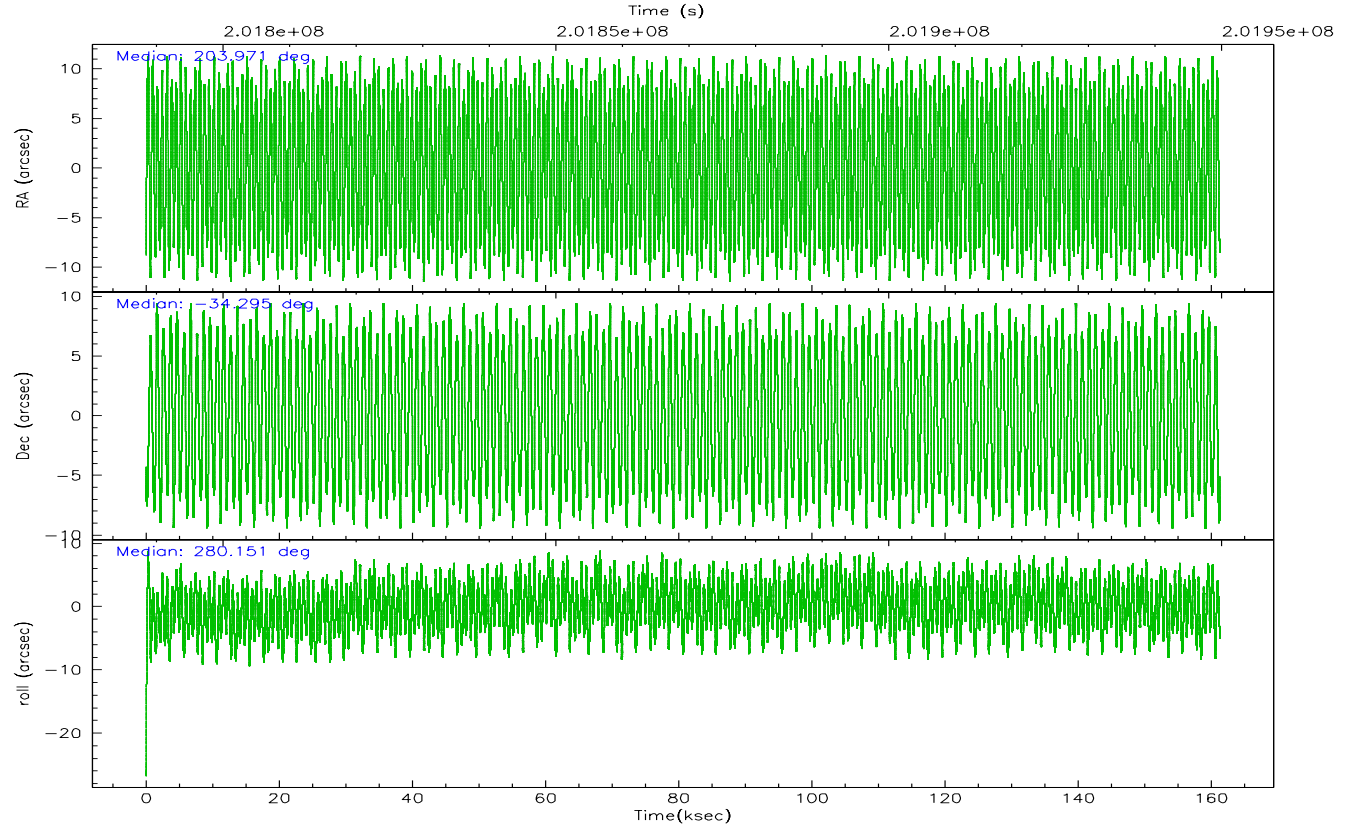
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	96929	95645	98263	47850	101147	51036
	9%	6%	9%	3%	8%	5%
grade 1 events	909	13072	565	1660	783	497
	0%	0%	0%	0%	0%	0%
grade 2 events	23989	182038	29940	141611	55777	21760
	2%	13%	3%	10%	4%	2%
grade 3 events	12013	17084	13821	37960	27143	11893
	1%	1%	1%	2%	2%	1%
grade 4 events	11323	16371	13428	37738	25449	11269
	1%	1%	1%	2%	2%	1%
grade 5 events	37761	66694	40647	92079	52706	42857
	3%	4%	4%	6%	4%	4%
grade 6 events	17673	333543	23520	312107	65082	21161
	1%	23%	2%	23%	5%	2%
grade 7 events	832524	670090	762562	656803	841249	737908
	80%	48%	77%	49%	71%	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	203.949857	203.9714484027686	Subarray start row	1	1
Pointing Dec	-34.274099	-34.29465632163759	Subarray row count	774	774
Pointing Roll	279.986545	280.1553341750324	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	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	201788688.184000	201787679.73313			
Observation start date	2004-05-24T12:23:44	2004-05-24T12:07:59			
Observation end time	201949781.184000	201950006.4278			
Observation end date	2004-05-26T09:08:37	2004-05-26T09:13:26			
Read mode	TIMED	TIMED			

2.3 Aspect



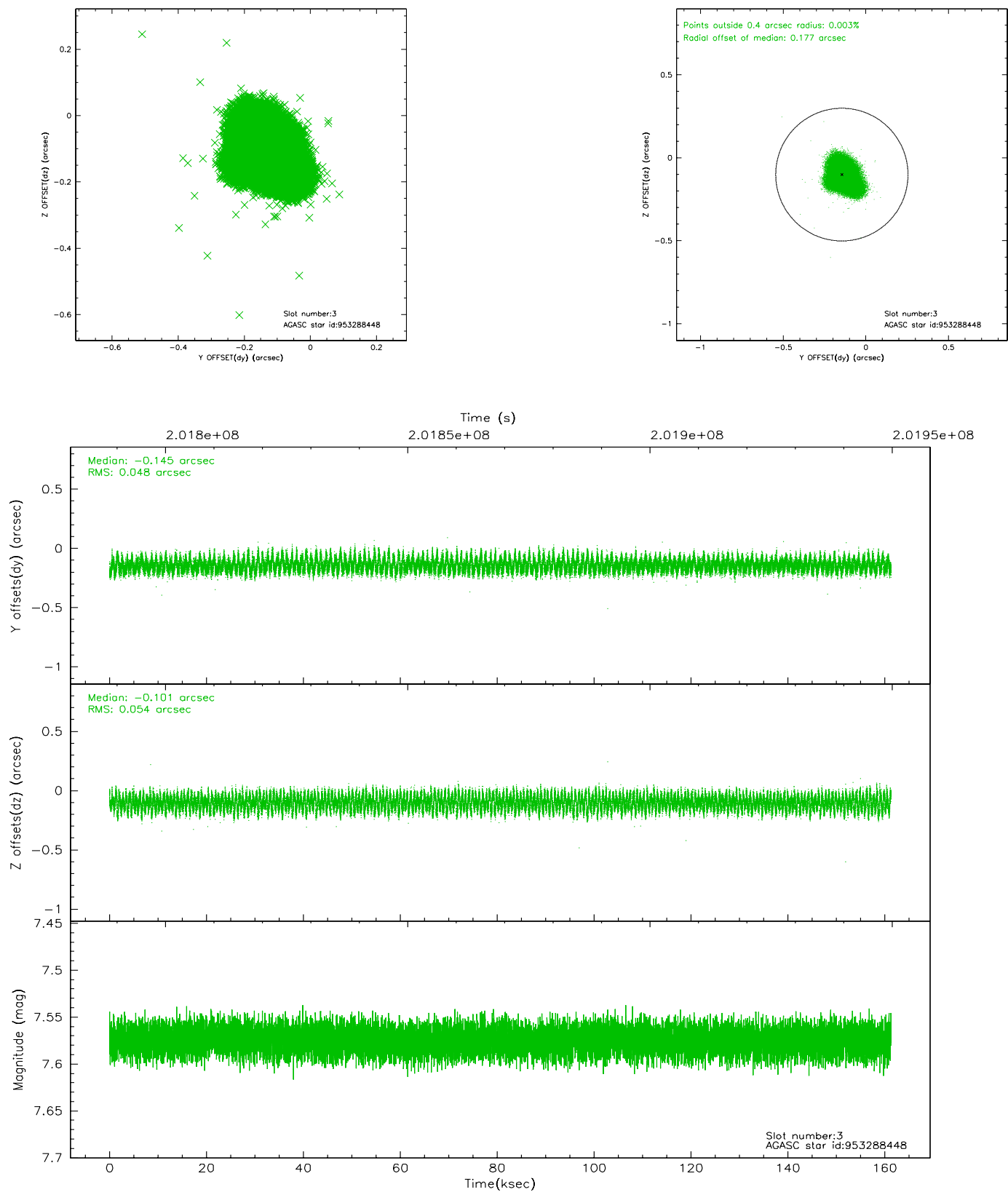


Slot Statistics

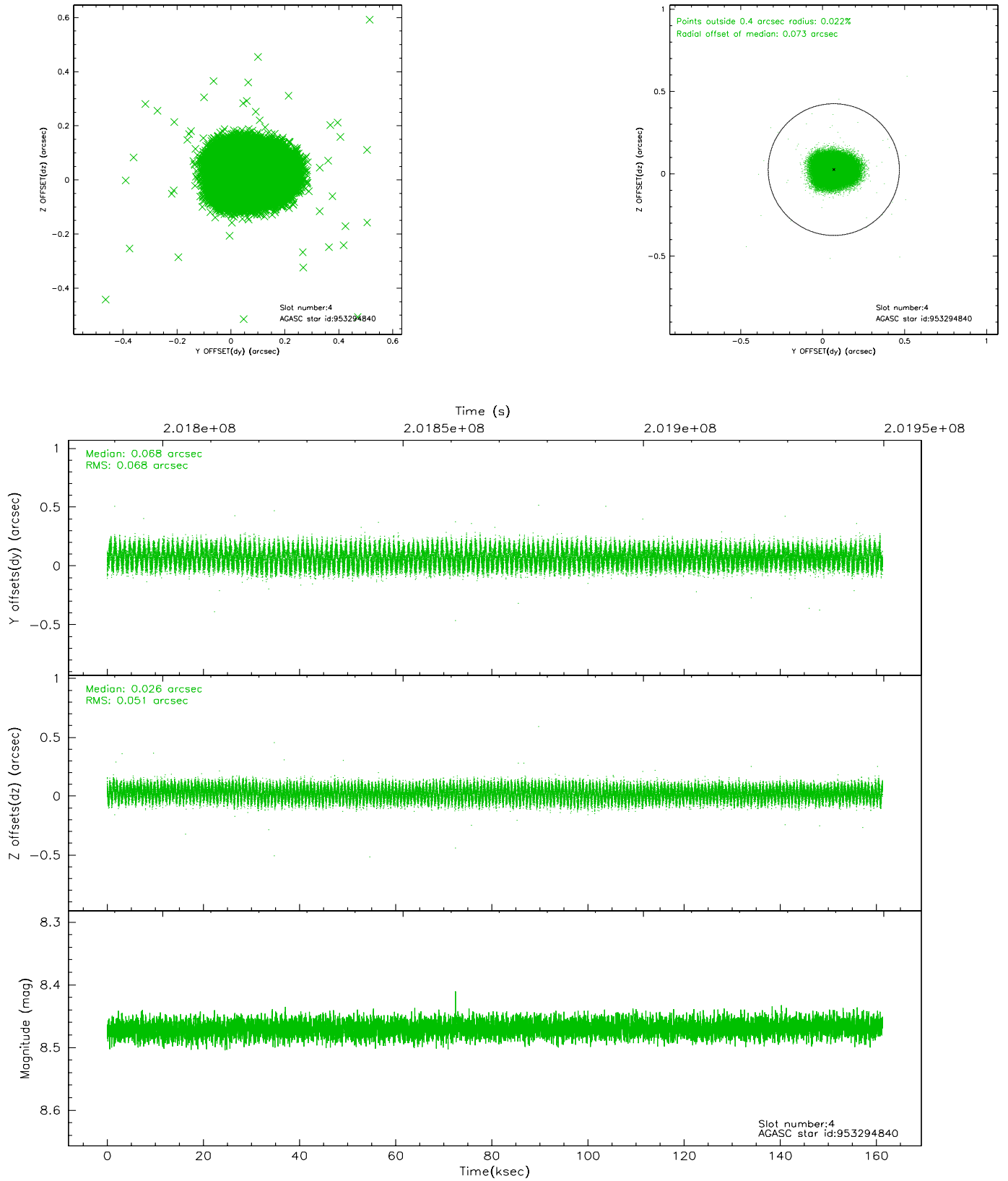
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	39358	-0.078	-0.026	0.009	0.016	0.000000	0.000000	-758.42	-1792.02
1	FID	ACIS-S-4	7.20	39356	0.084	0.045	0.008	0.035	0.000000	0.000000	2155.06	116.66
2	FID	ACIS-S-5	7.23	39356	-0.038	-0.010	0.009	0.029	0.000000	0.000000	-1811.38	110.13
3	GUIDE	953288448	7.57	78707	-0.145	-0.101	0.077	0.126	203.869544	-34.017546	-950.96	-76.09
4	GUIDE	953294840	8.47	78696	0.068	0.026	0.092	0.136	204.478170	-34.846425	2304.09	1179.42
5	GUIDE	953295296	7.43	78631	-0.052	-0.049	0.070	0.111	203.563852	-34.387568	205.88	-1200.68
6	GUIDE	953296432	8.99	78672	0.028	0.199	0.114	0.177	204.411860	-34.306423	356.14	1332.22
7	GUIDE	953297000	9.46	78663	0.118	-0.079	0.273	0.393	203.651481	-34.967131	2306.20	-1299.81

2.4 Star Slots

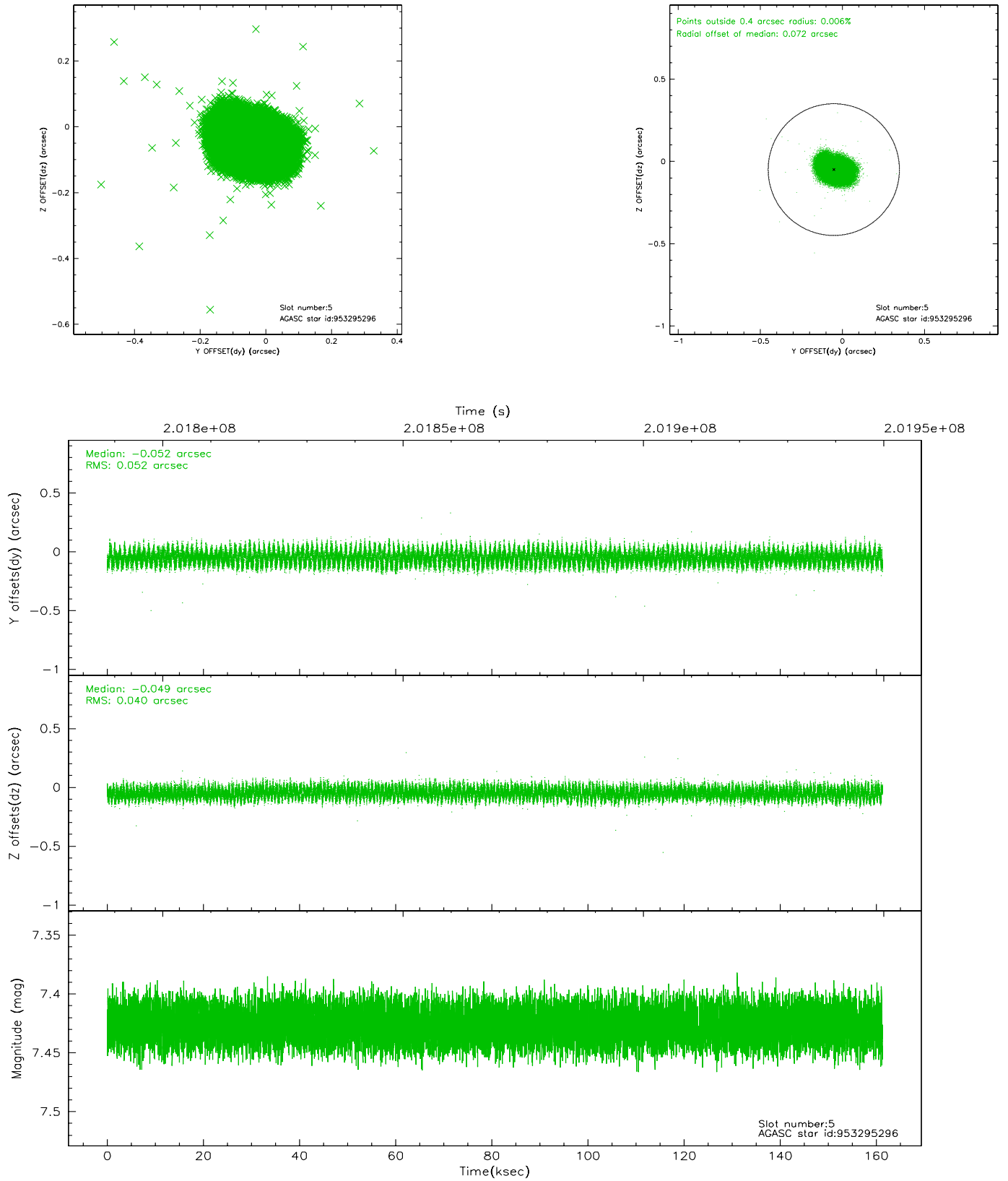
2.4.1 Slot 3



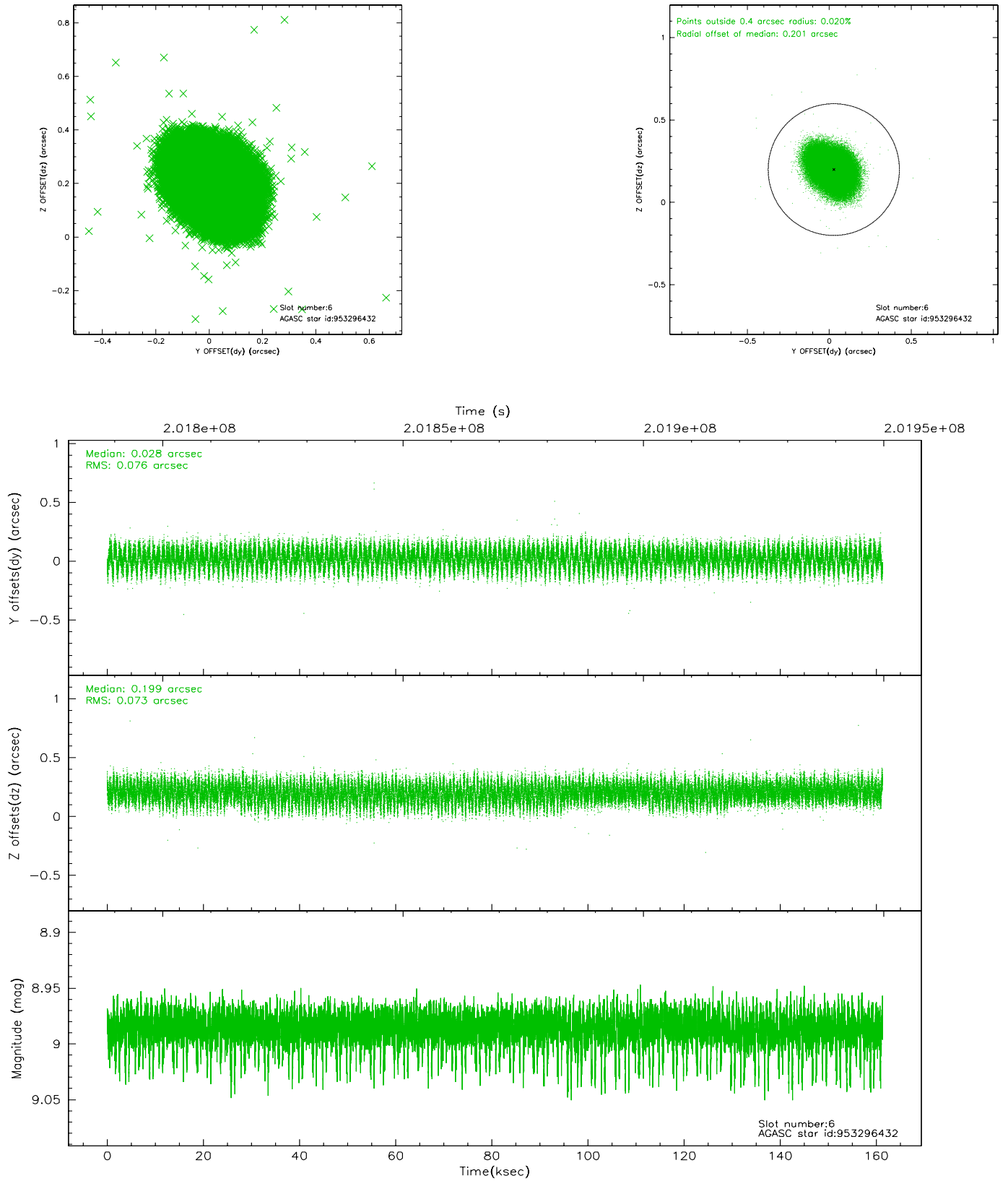
2.4.2 Slot 4



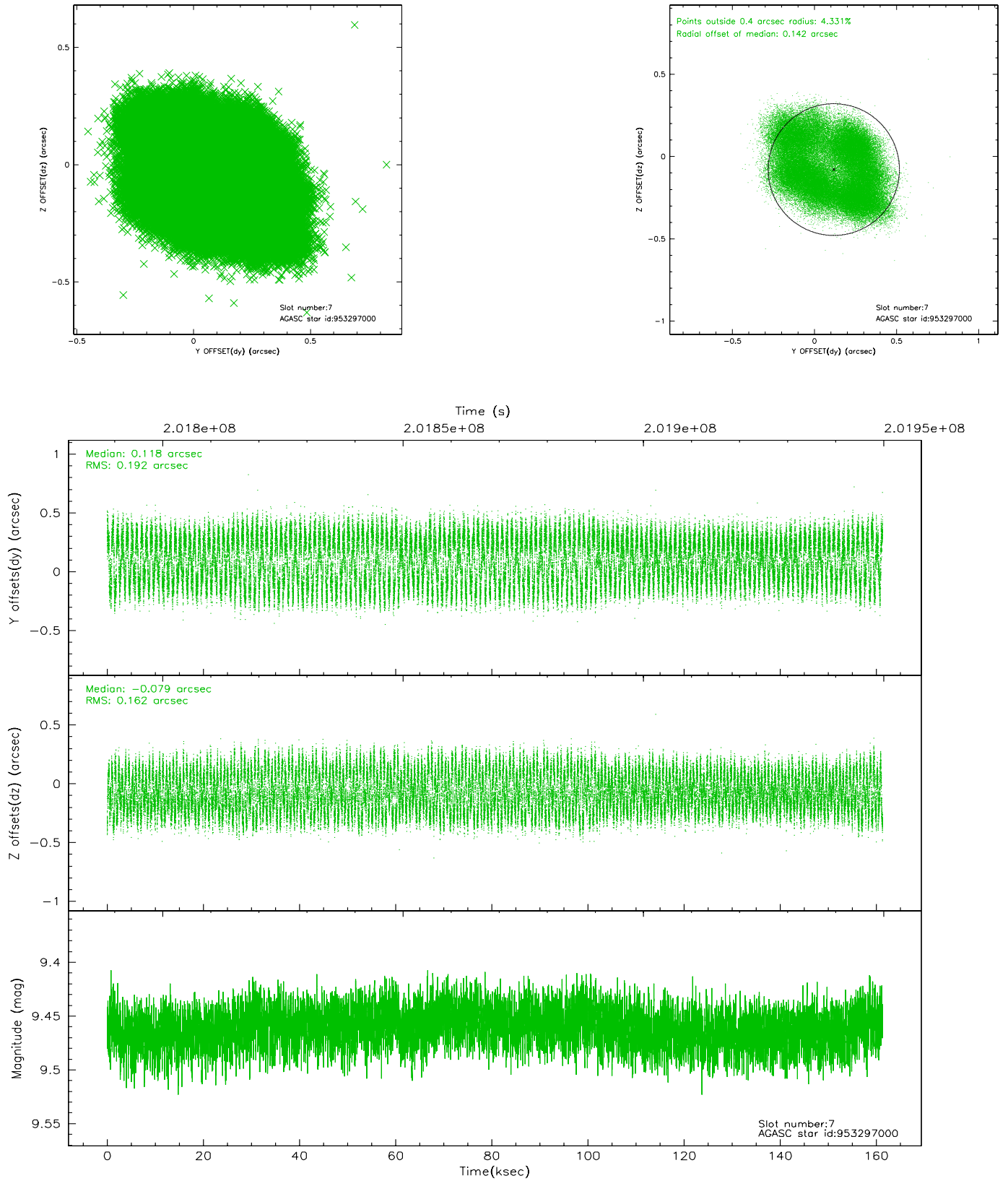
2.4.3 Slot 5



2.4.4 Slot 6

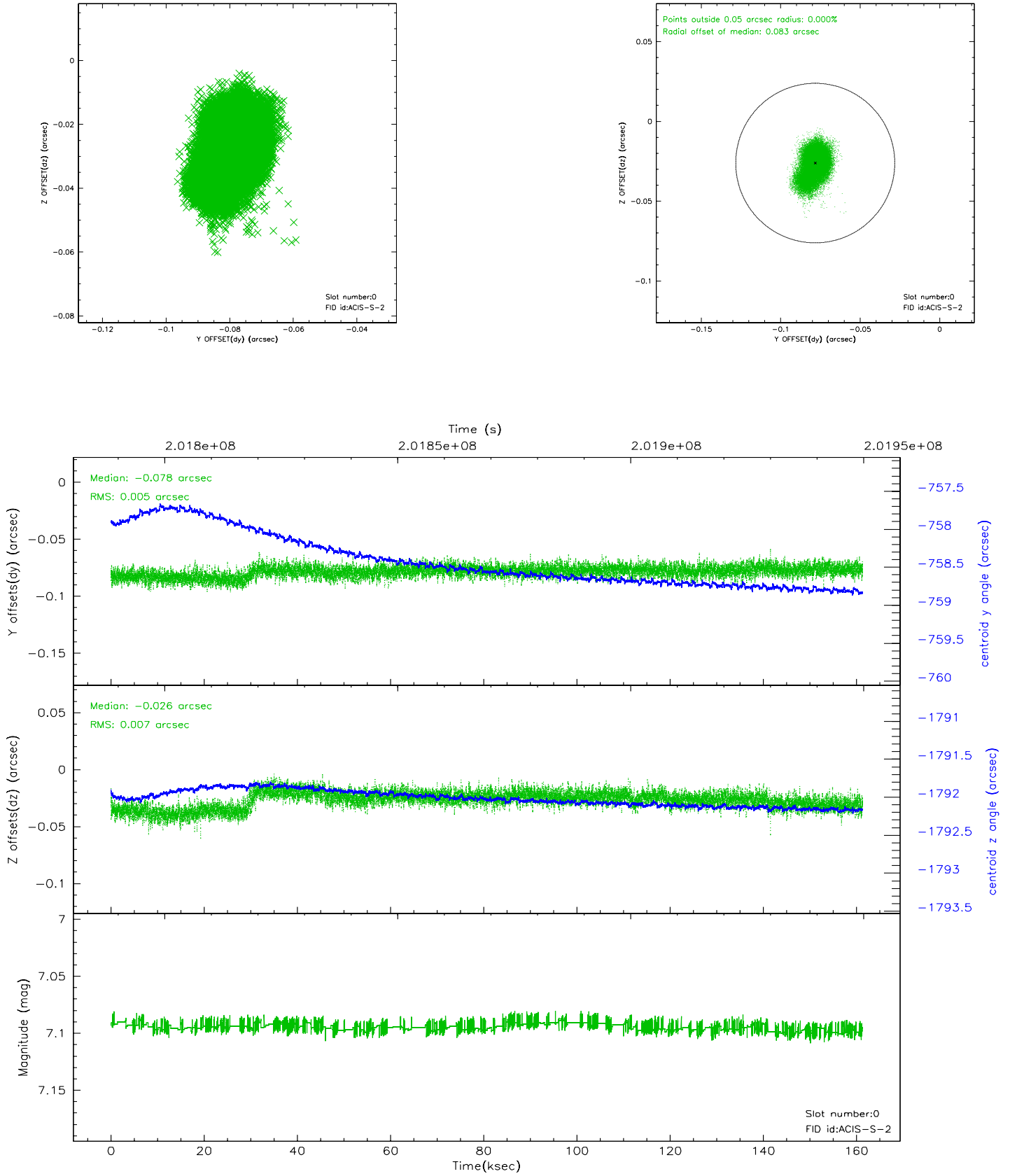


2.4.5 Slot 7

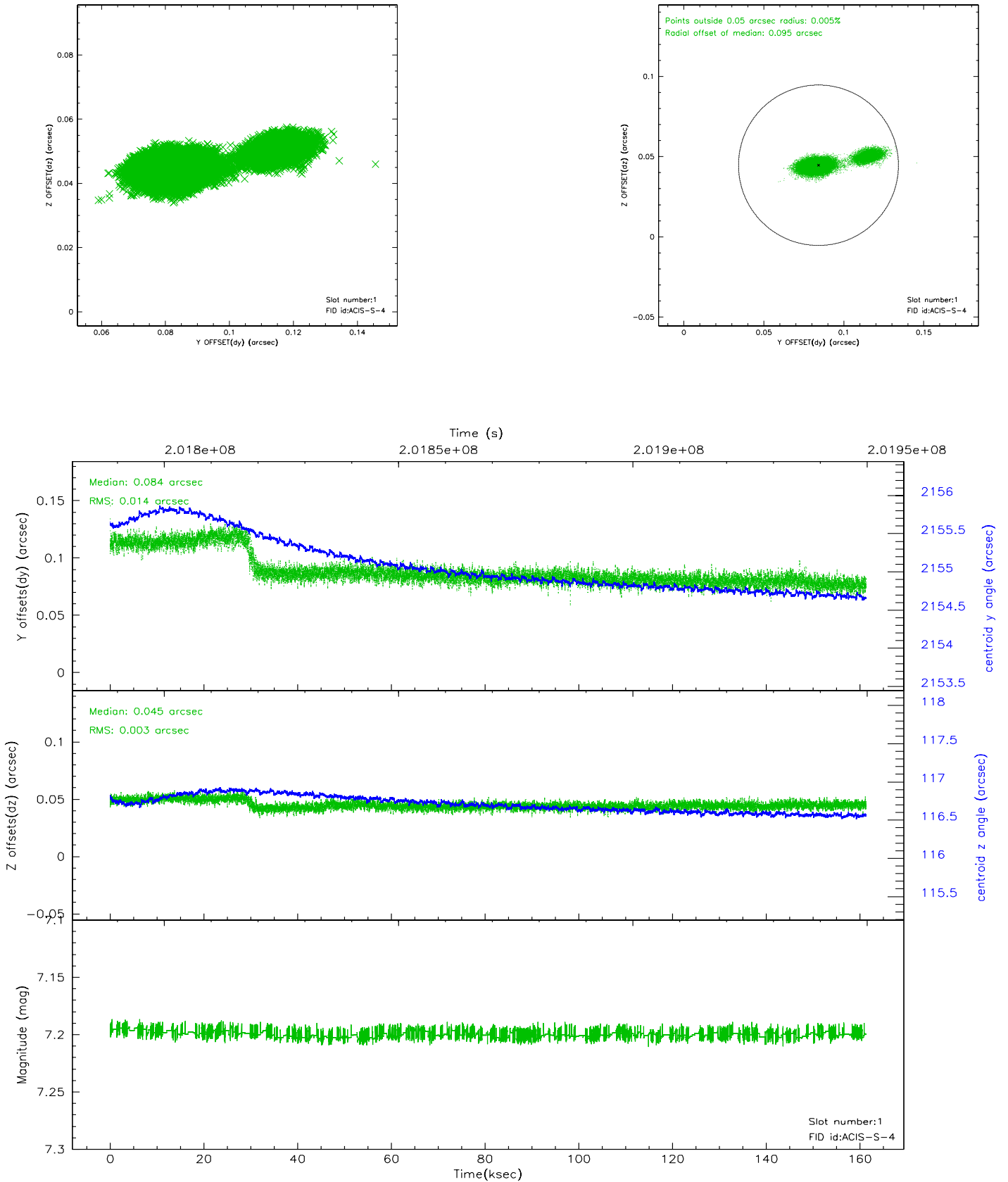


2.5 FID Slots

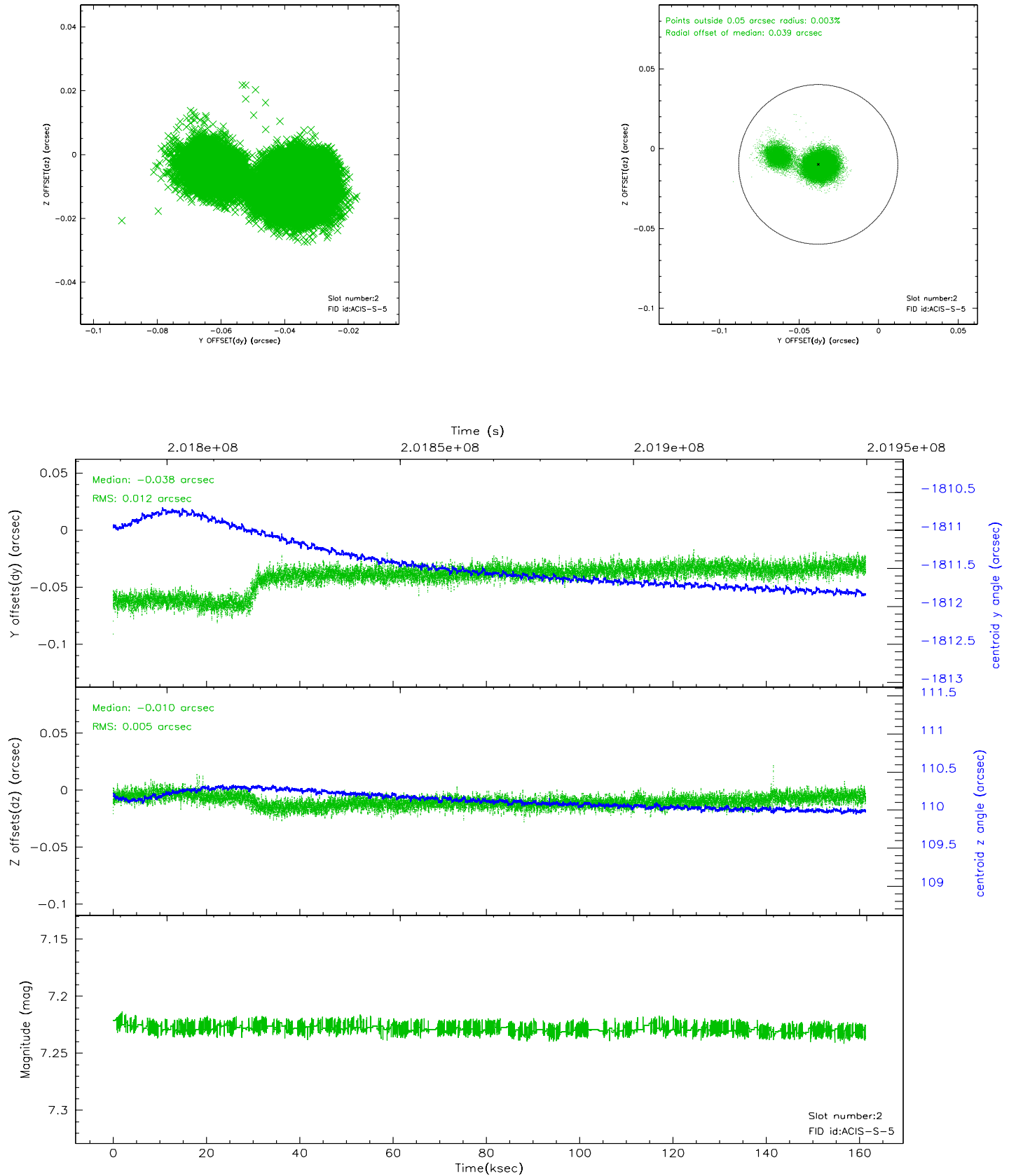
2.5.1 Slot 0



2.5.2 Slot 1

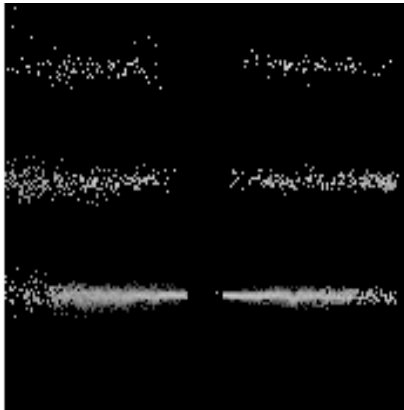


2.5.3 Slot 2

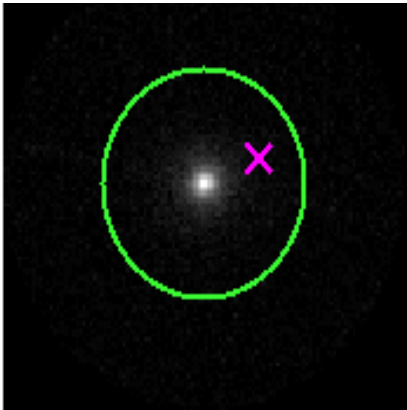


3 Gratings

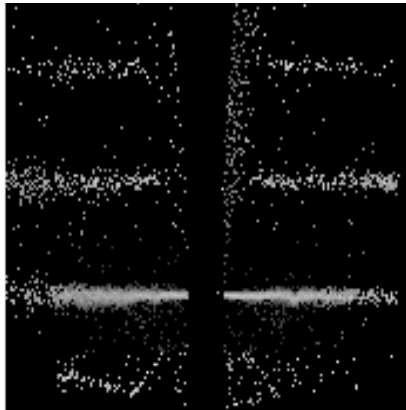
3.1 HEG Arm



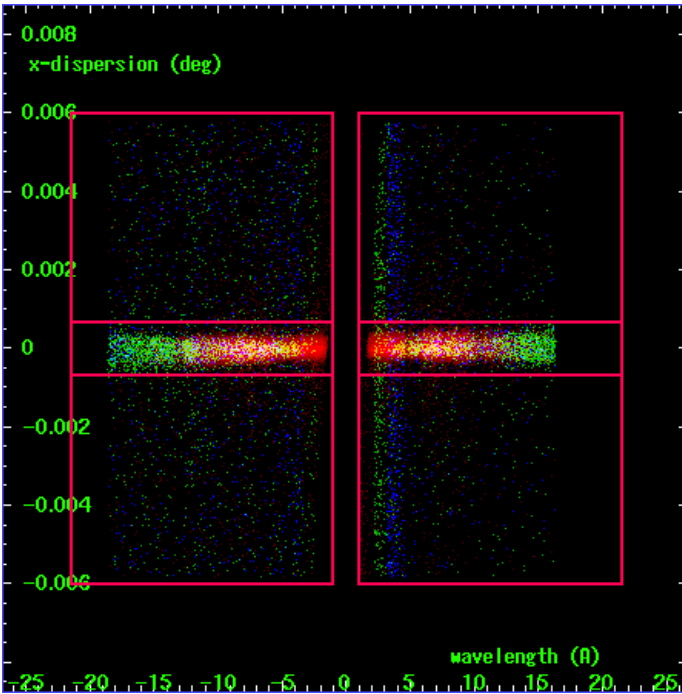
HEG Order Sort 123



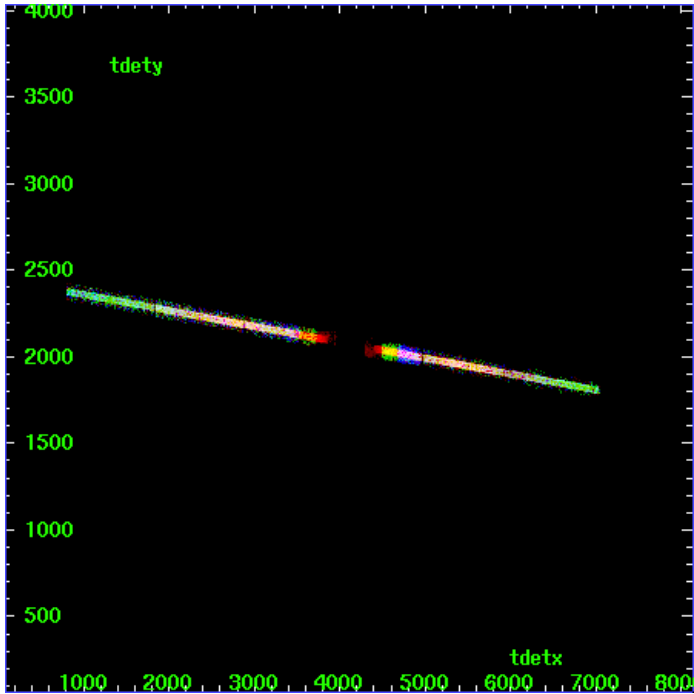
HEG Zero Order



HEG Order Sort ALL

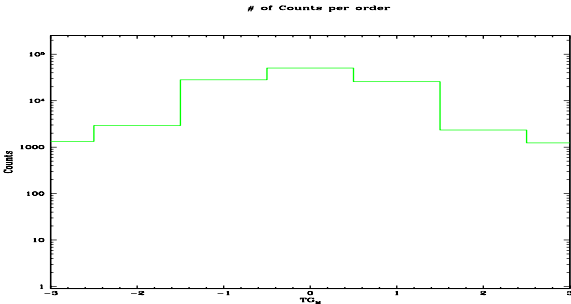


Spot Image HEG

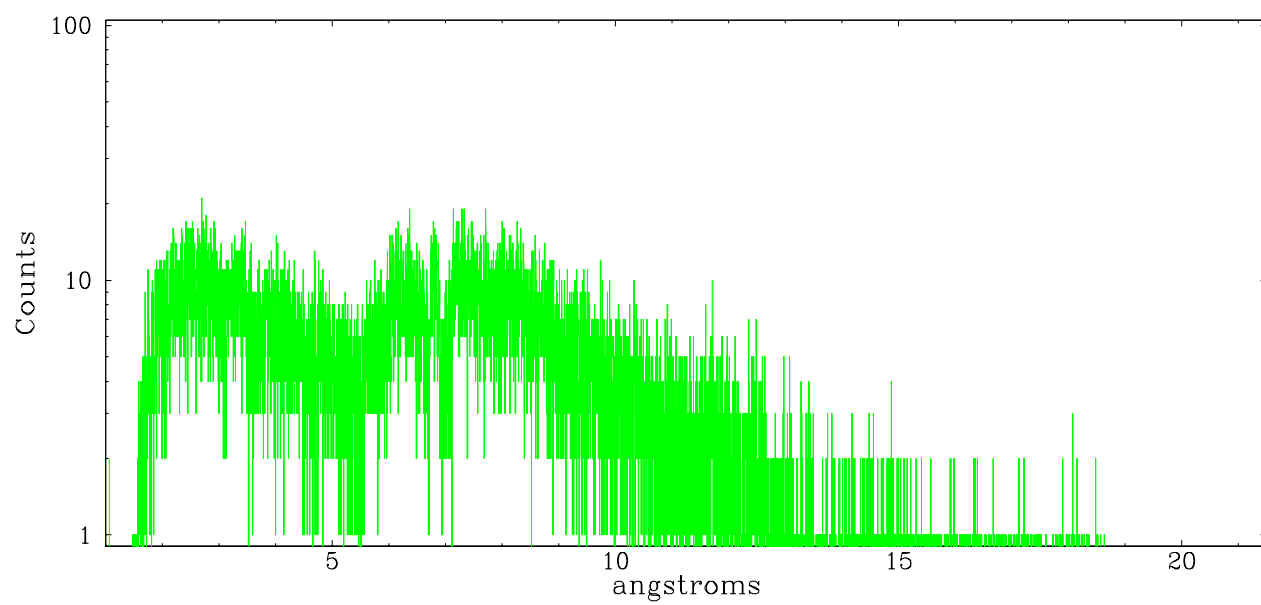


Full Detector HEG

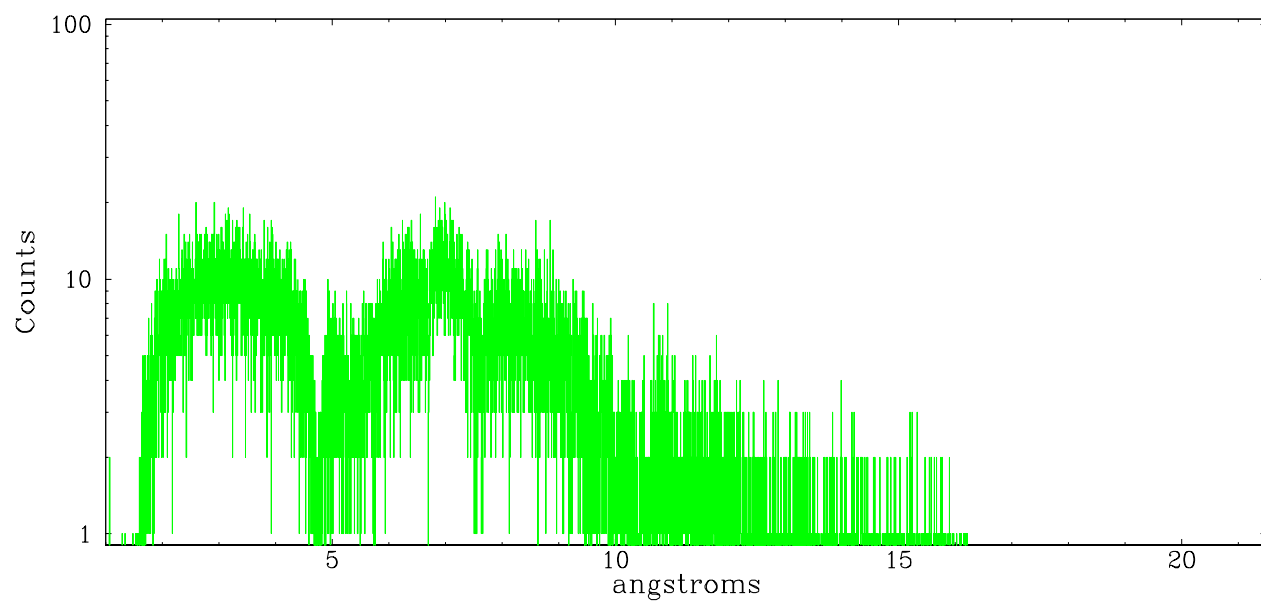
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1324	2903	28240	50149	25650	2325	1230



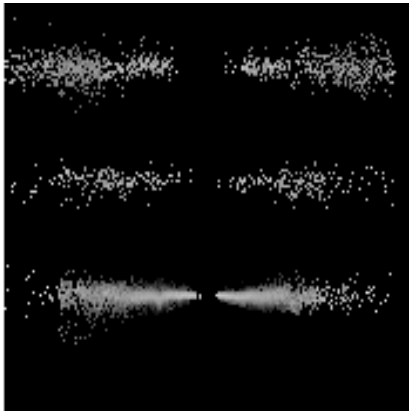
heg order -1



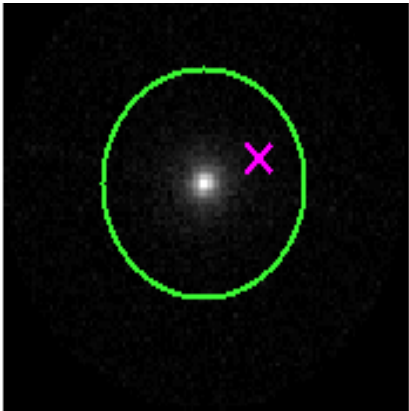
heg order +1



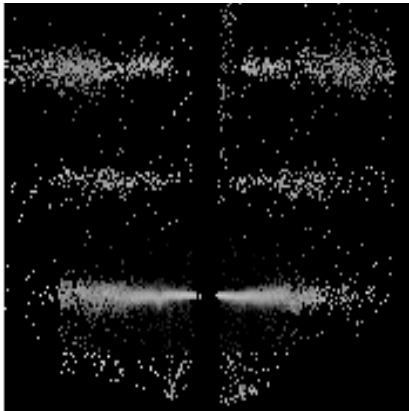
3.2 MEG Arm



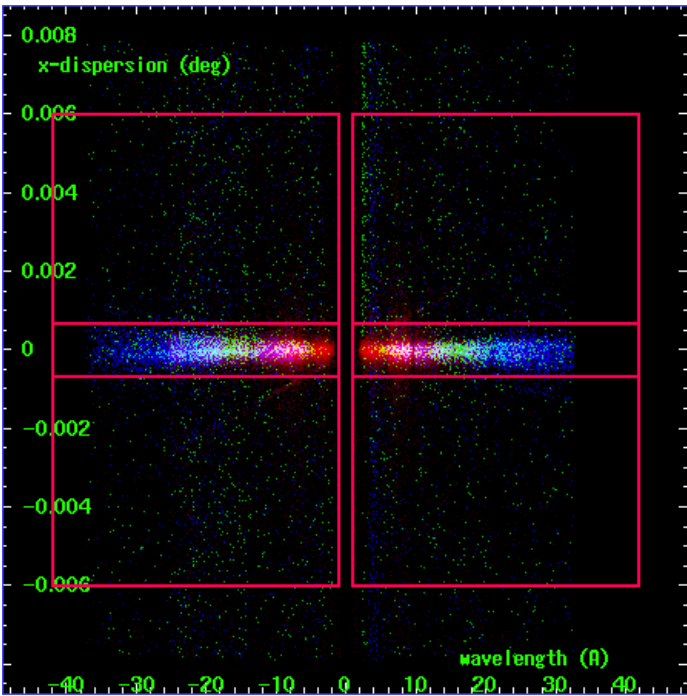
MEG Order Sort 123



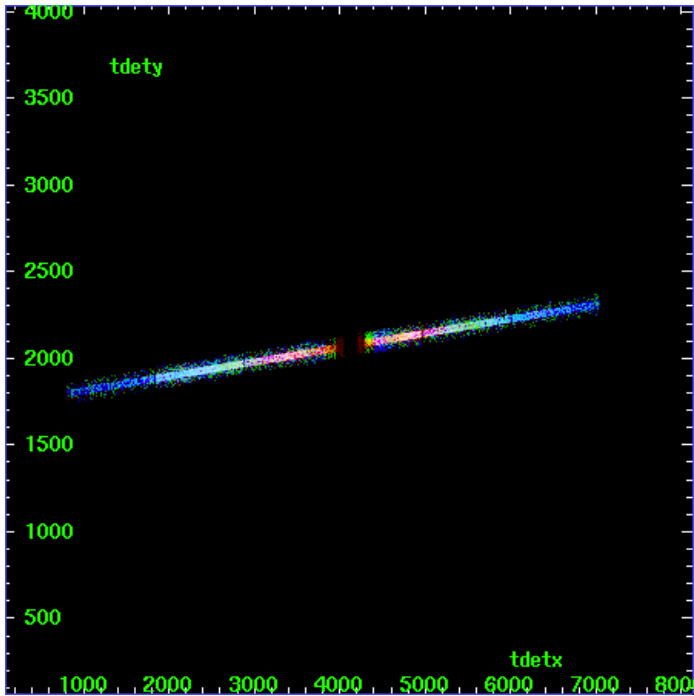
MEG Zero Order



MEG Order Sort ALL

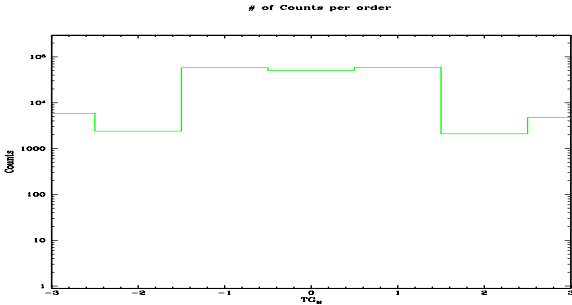


Spot Image MEG

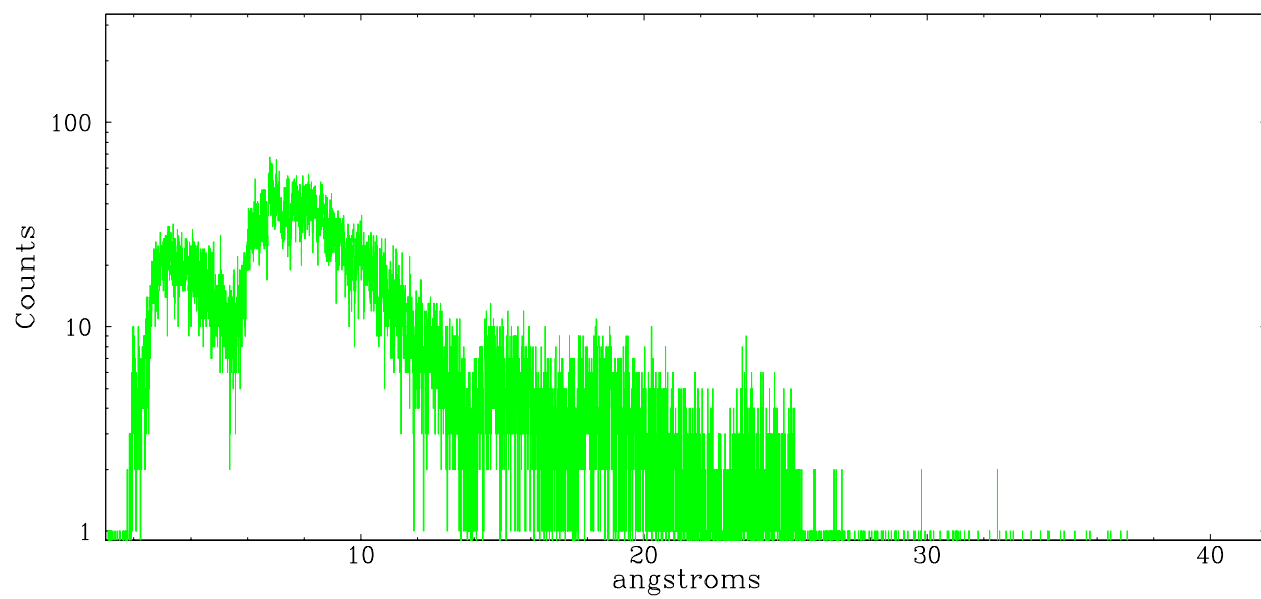


Full Detector MEG

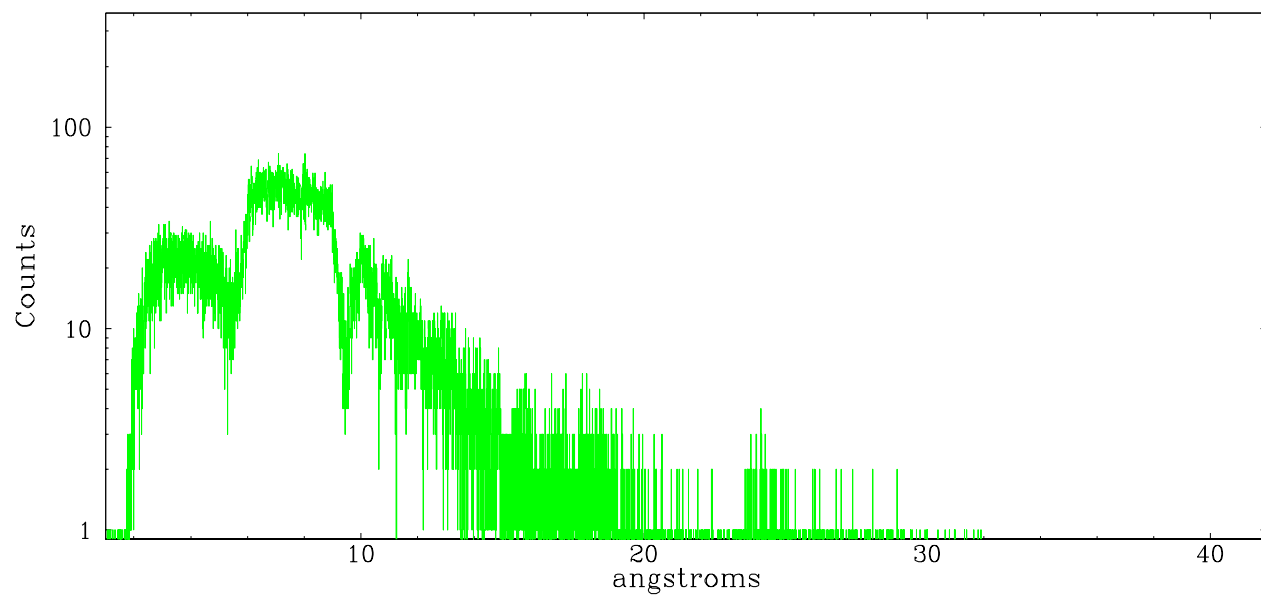
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	5811	2402	57894	50149	58918	2096	4742



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	161.137

A.2 Comments