

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 1706 - L2 Version 001
Chandra X-Ray Center

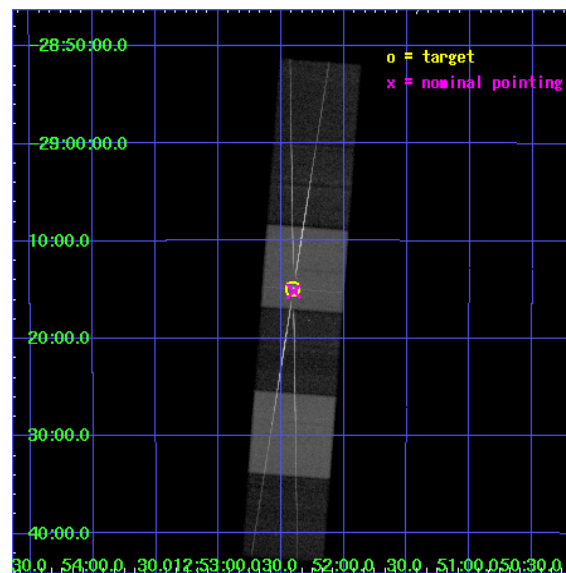
L2 Processing Date : May 19 2007

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1 Front

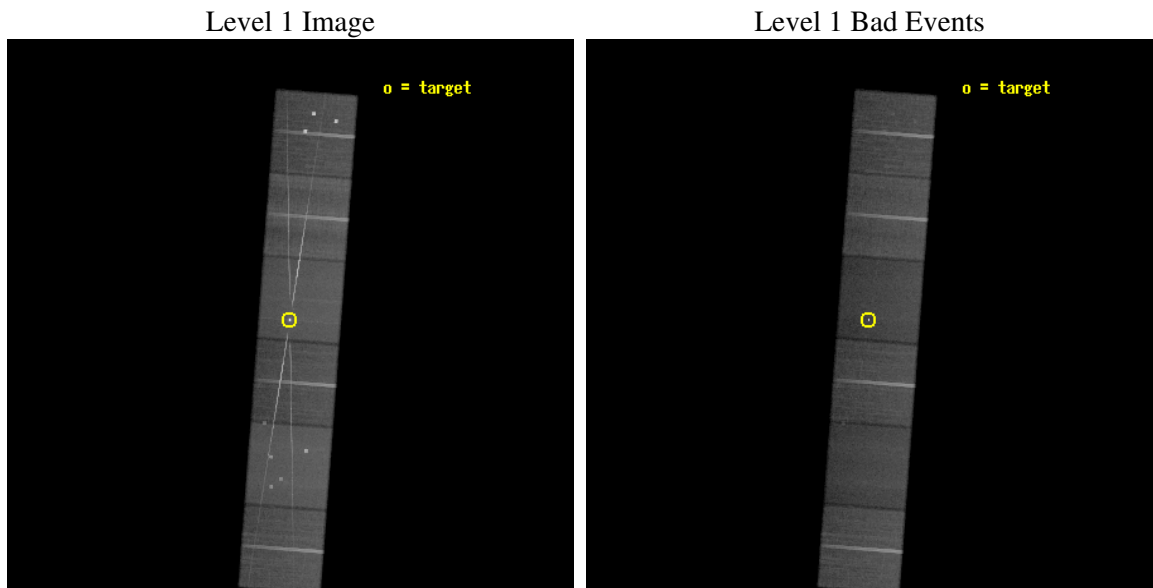
seq_num	300041
obs_id	1706
title	CHANDRA HETG SPECTROSCOPY OF EX HYDRAE
observer	DR. Steve Howell
object	EX HYA
dtcycle	0
cycle	P
ra_targ	193.101667
dec_targ	-29.248889
ra_nom	193.09995557389
dec_nom	-29.253344190897
roll_nom	274.34986539767
revision	3
ontime	59881.799945921
livetime	59146.235849178
ontime4	59881.799945921
ontime5	59881.799945921
ontime6	59878.458975673
ontime7	59881.799945921
ontime8	59878.458975688
ontime9	59881.799945921
l2events	770987



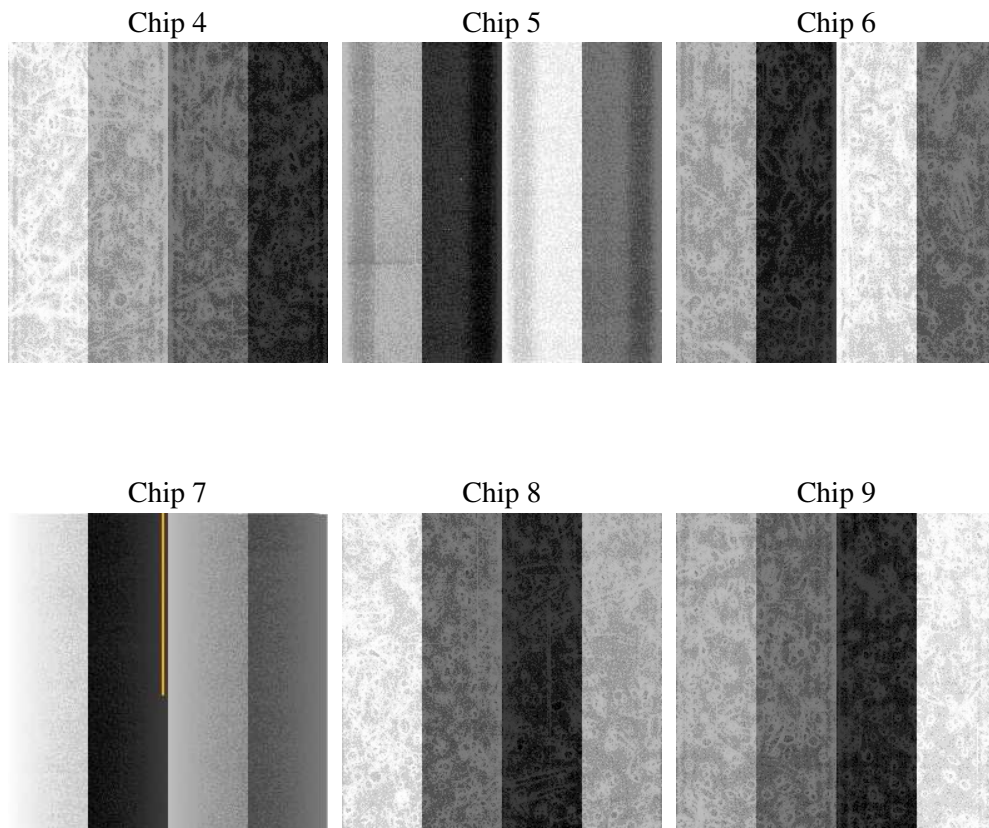
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldsver	3.3.0
date	2007-05-19T10:55:43
revision	3

sched_exp_time	60000.000000
ontime	59881.799945921
ontime4	59881.799945921
ontime5	59881.799945921
ontime6	59878.458975673
ontime7	59881.799945921
ontime8	59878.458975688
ontime9	59881.799945921
l1events	3106372

2.1.4 Events

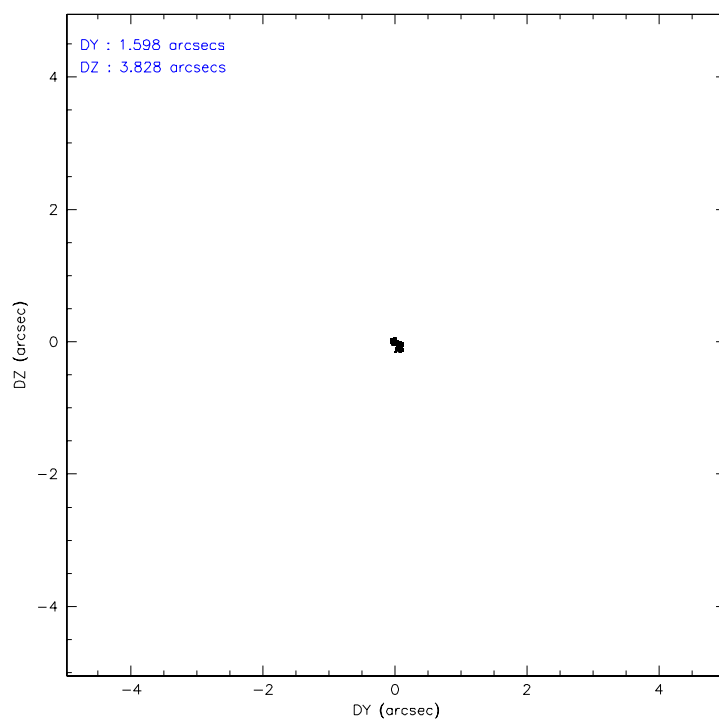
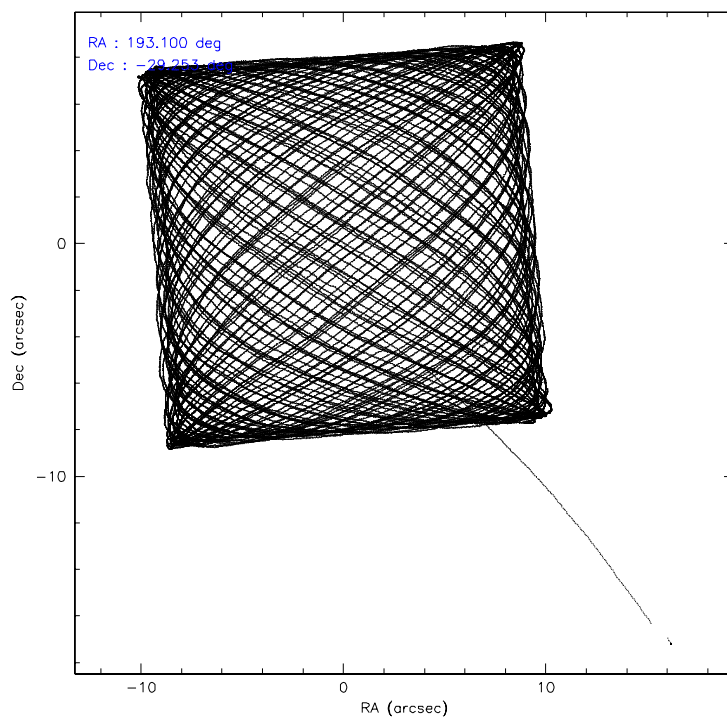
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	472027	558687	482302	556040	572180	465136
rejected events	420483	285977	375841	289308	421426	364536
rejected %	89%	51%	77%	52%	73%	78%

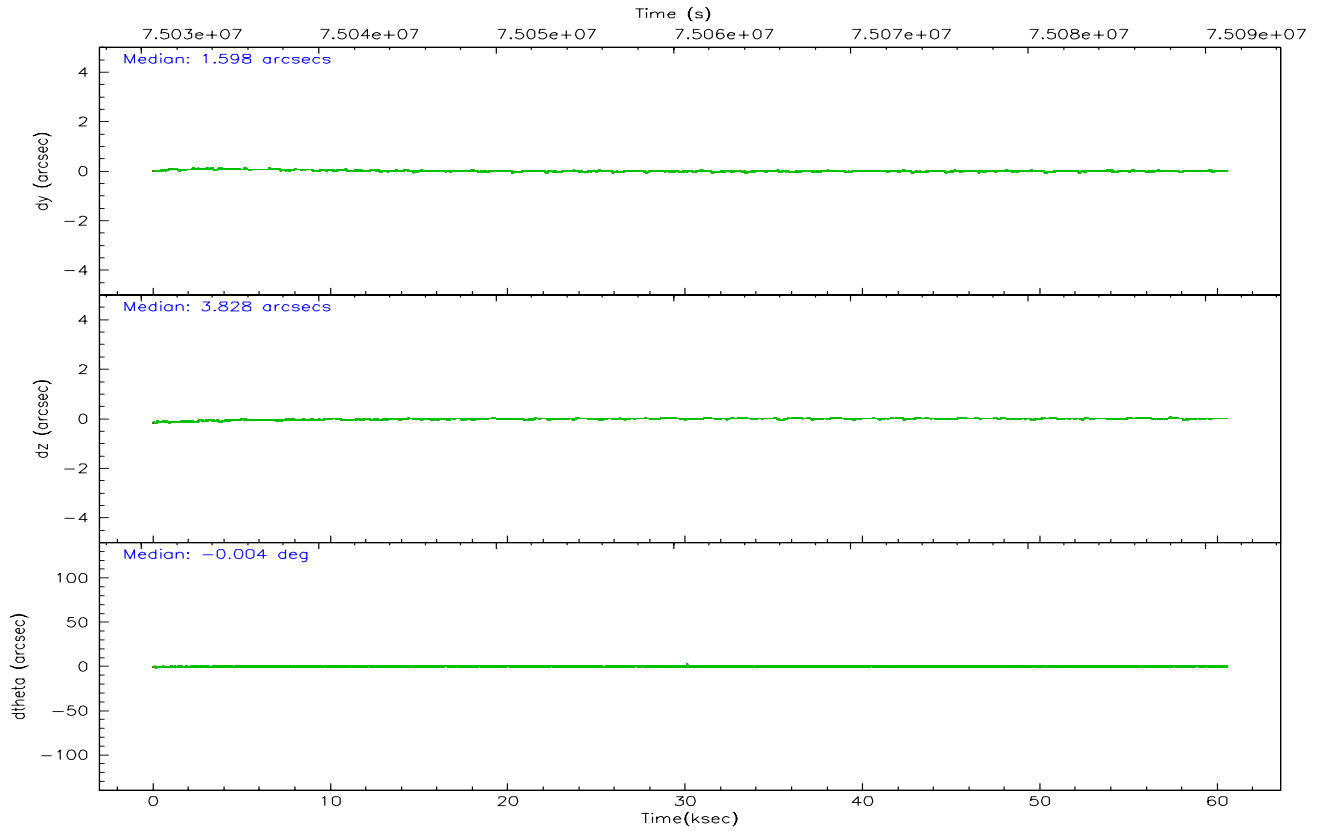
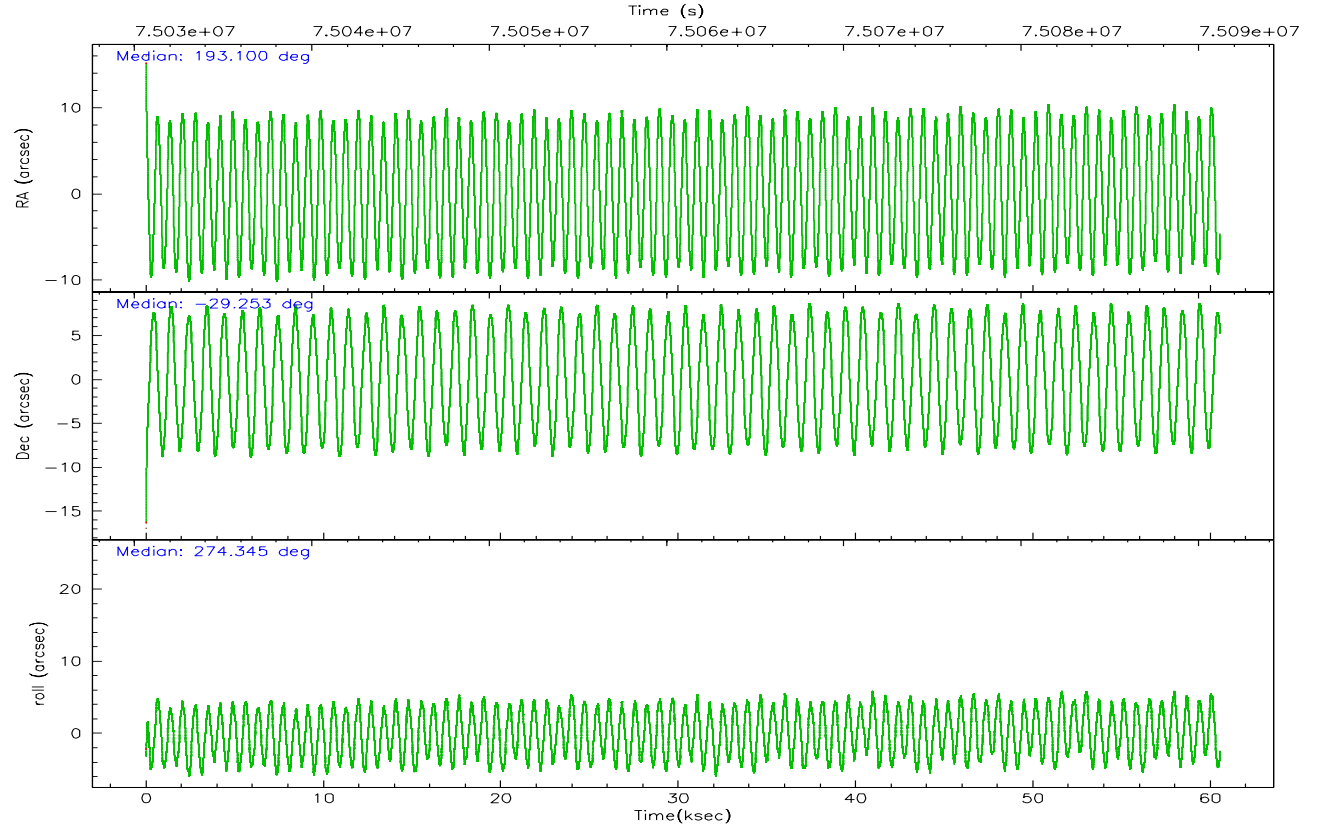
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	23199	42248	66952	32980	65497	55583
	4%	7%	13%	5%	11%	11%
grade 1 events	252	951	452	864	482	380
	0%	0%	0%	0%	0%	0%
grade 2 events	11553	75451	15766	55683	26519	24486
	2%	13%	3%	10%	4%	5%
grade 3 events	4474	12805	6685	25457	15126	4764
	0%	2%	1%	4%	2%	1%
grade 4 events	4428	12506	6595	25470	13750	4602
	0%	2%	1%	4%	2%	0%
grade 5 events	13089	41032	15706	48978	19971	15811
	2%	7%	3%	8%	3%	3%
grade 6 events	7891	129717	10471	127156	29875	11176
	1%	23%	2%	22%	5%	2%
grade 7 events	407141	243977	359675	239452	400960	348334
	86%	43%	74%	43%	70%	74%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	193.082148	193.0999555738871	Subarray requested	NONE	NONE
Pointing Dec	-29.230755	-29.25334419089746	Alternating exposures requested	N	N
Pointing Roll	274.184538	274.3498653976695	Primary exposure time	0.000000	3.3
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
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	75031220.184000	75030074.80107			
Observation start date	2000-05-18T09:59:16	2000-05-18T09:41:14			
Observation end time	75091220.184000	75092042.715846			
Observation end date	2000-05-19T02:39:16	2000-05-19T02:54:02			
Read mode	TIMED	TIMED			

2.3 Aspect



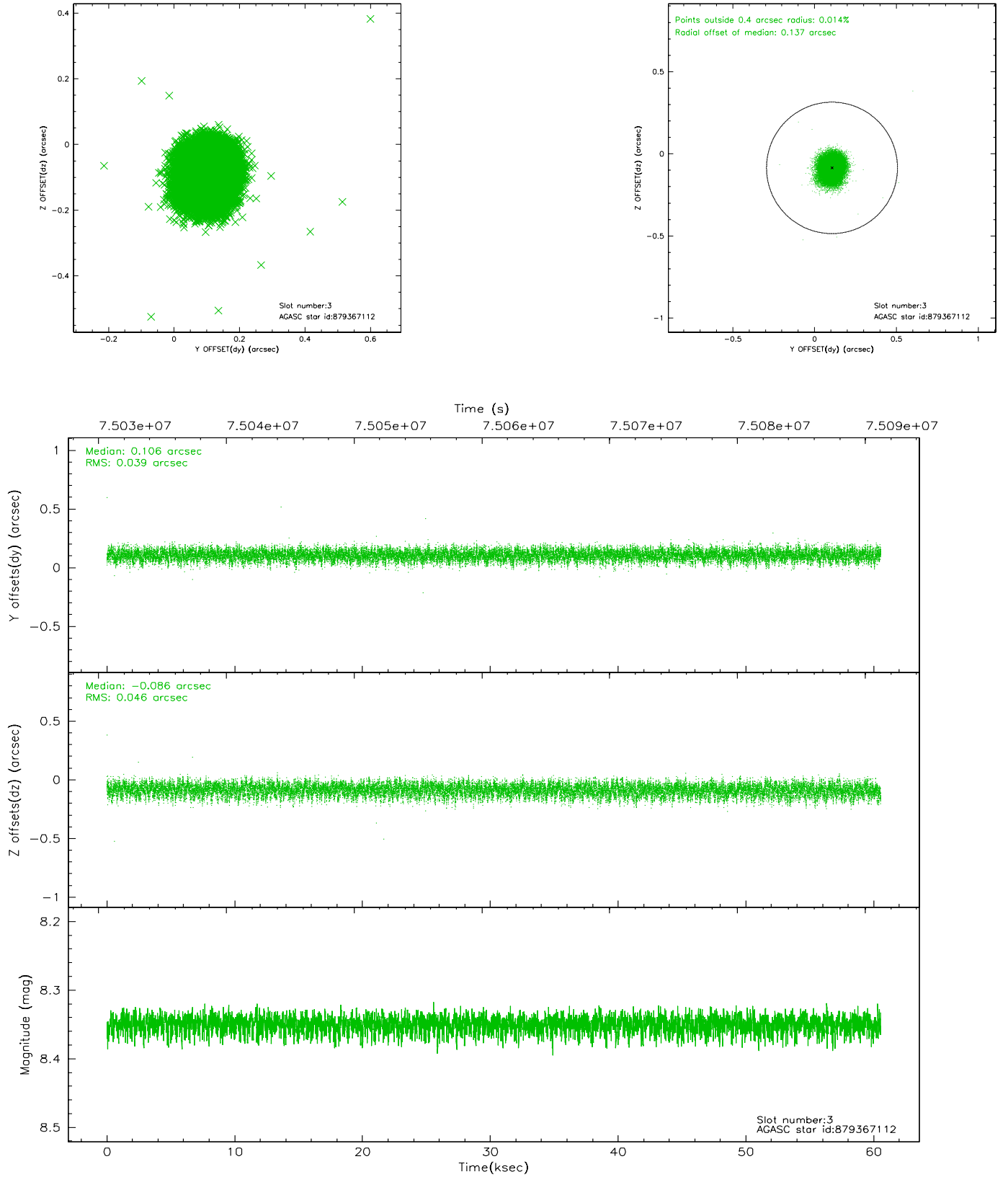


Slot Statistics

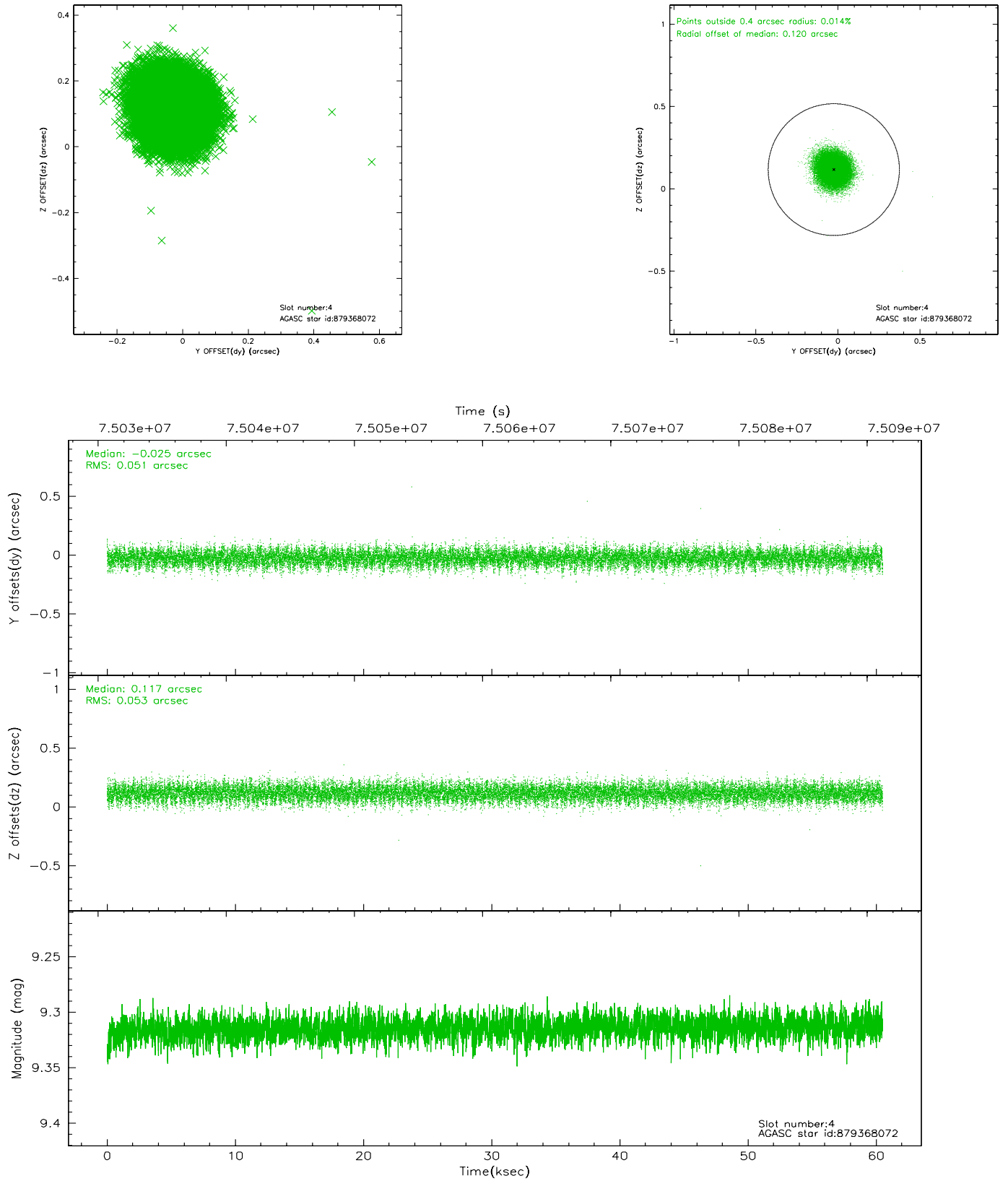
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	14772	-0.046	-0.003	0.007	0.012	0.000000	0.000000	-754.04	-1786.99
1	FID	ACIS-S-4	7.20	14770	-0.035	0.023	0.005	0.010	0.000000	0.000000	2159.26	121.56
2	FID	ACIS-S-5	7.24	14769	0.050	-0.012	0.007	0.011	0.000000	0.000000	-1806.85	115.14
3	GUIDE	879367112	8.35	29538	0.106	-0.086	0.065	0.103	192.776530	-29.177384	-259.71	-944.01
4	GUIDE	879368072	9.31	29502	-0.025	0.117	0.079	0.126	193.665252	-29.406383	768.98	1777.78
5	GUIDE	877662224	8.68	29537	-0.178	-0.136	0.085	0.134	192.294404	-28.855188	-1520.83	-2379.10
6	GUIDE	879366032	8.94	29532	-0.020	-0.014	0.070	0.112	192.835243	-28.983192	-944.21	-710.46
7	GUIDE	879367536	9.52	29526	0.119	0.118	0.080	0.130	193.793217	-29.686864	1807.19	2098.18

2.4 Star Slots

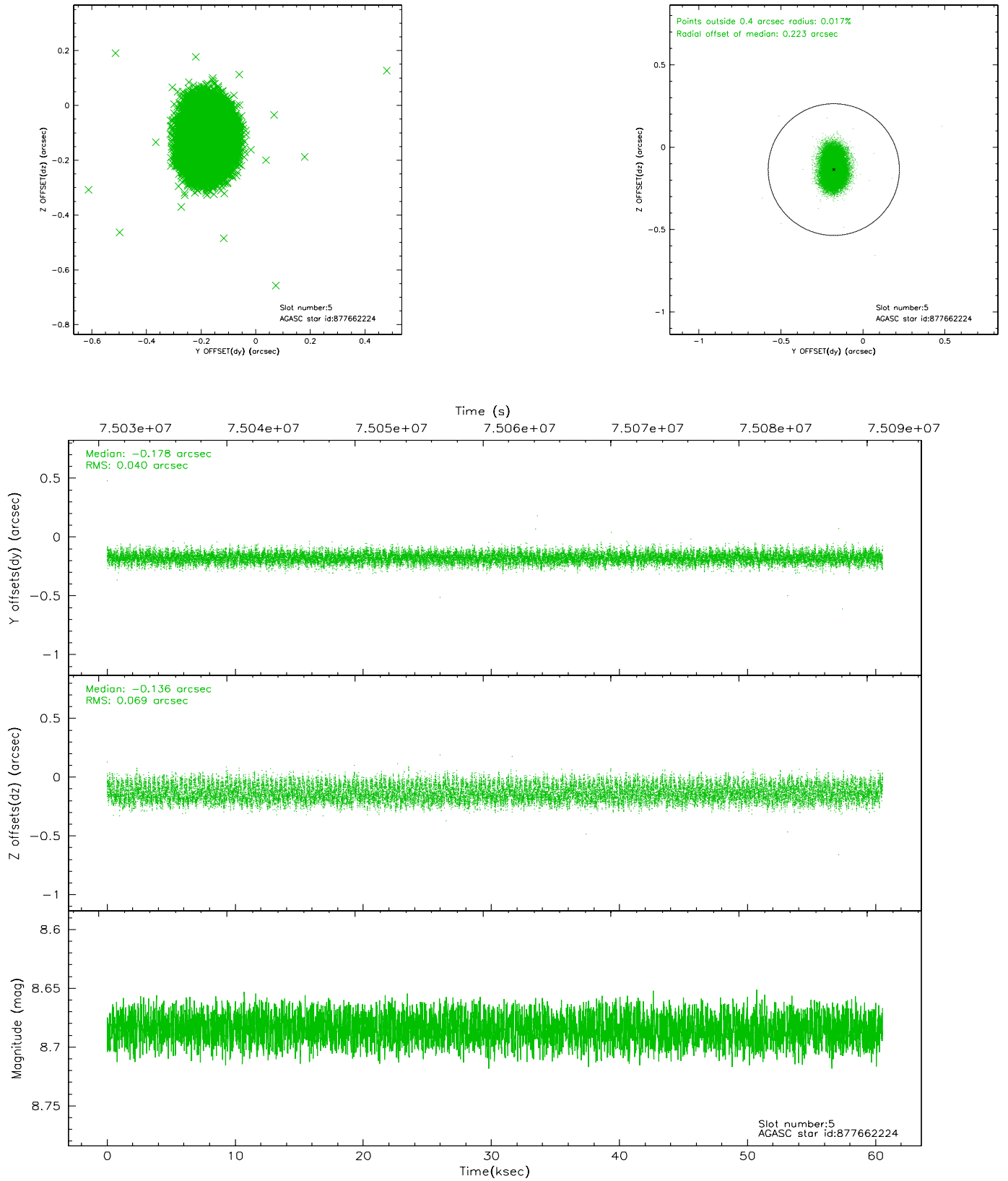
2.4.1 Slot 3



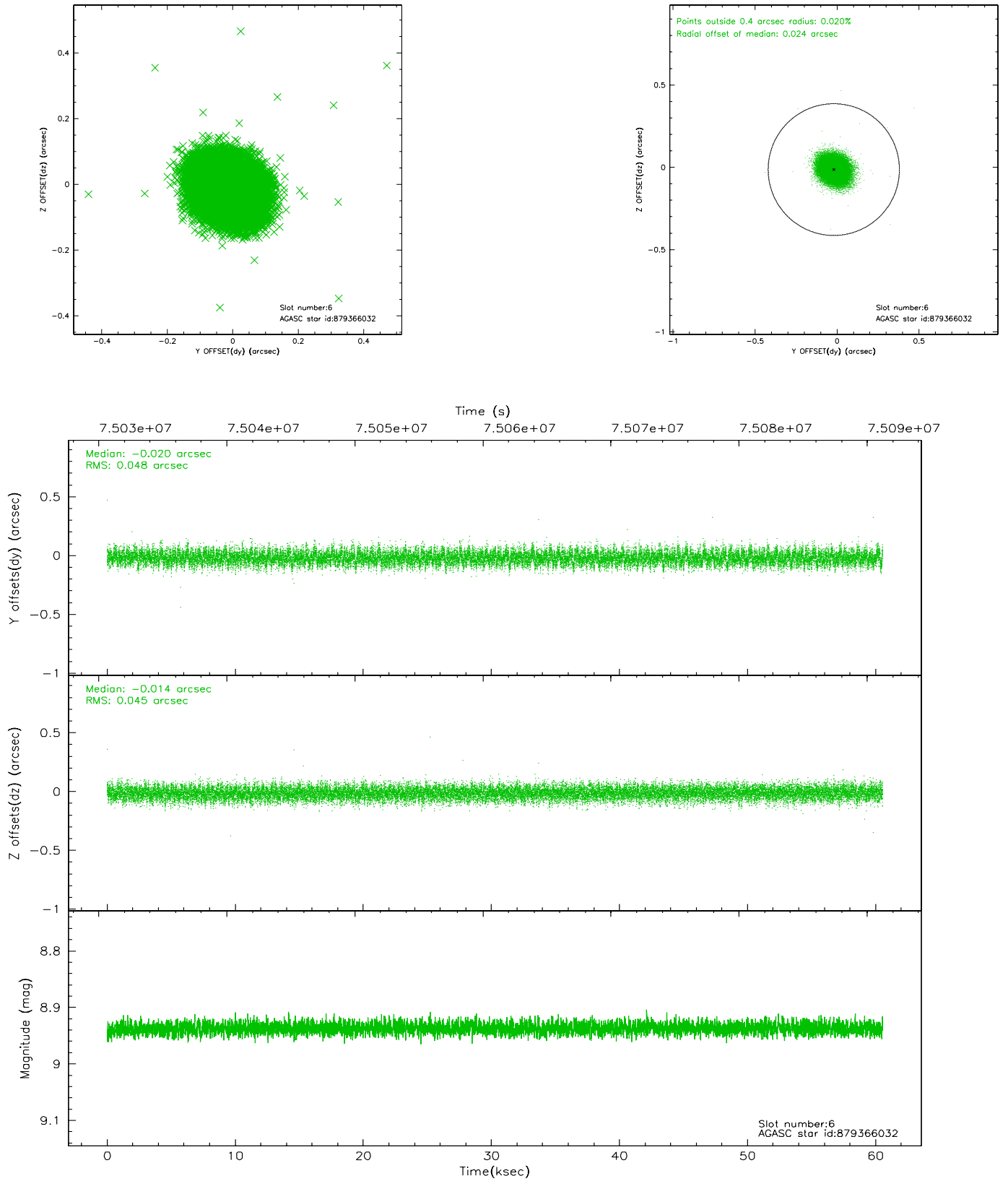
2.4.2 Slot 4



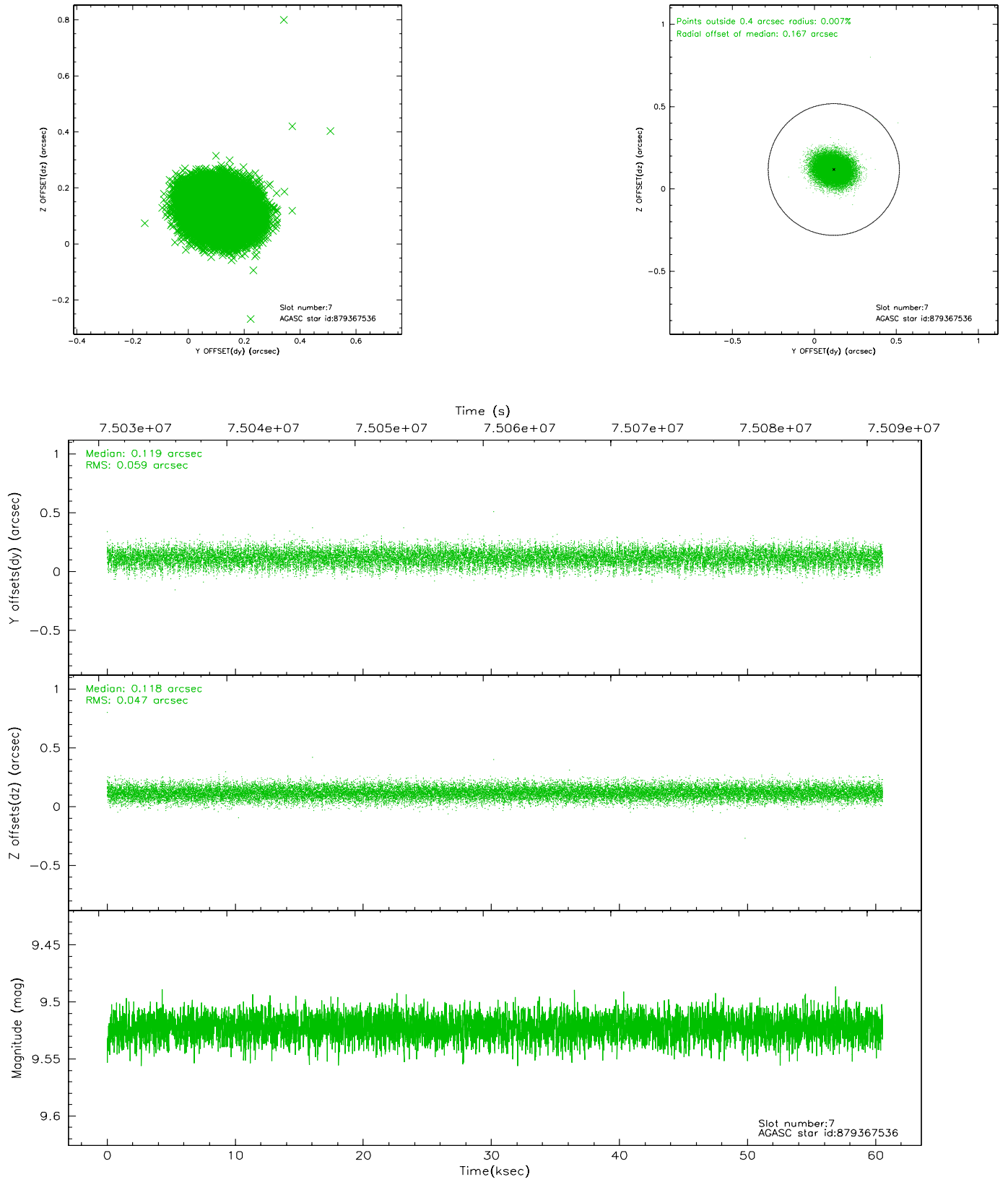
2.4.3 Slot 5



2.4.4 Slot 6

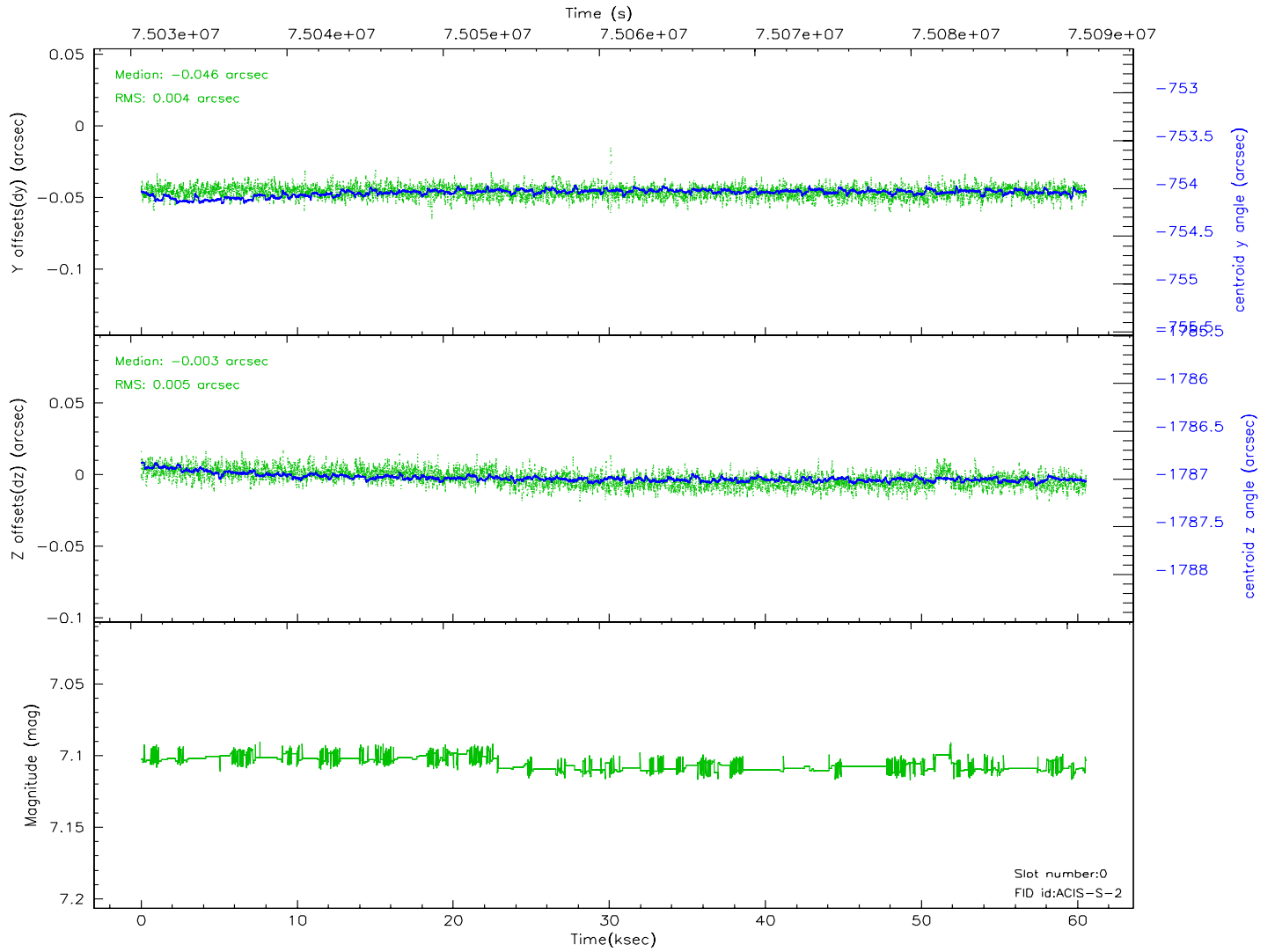
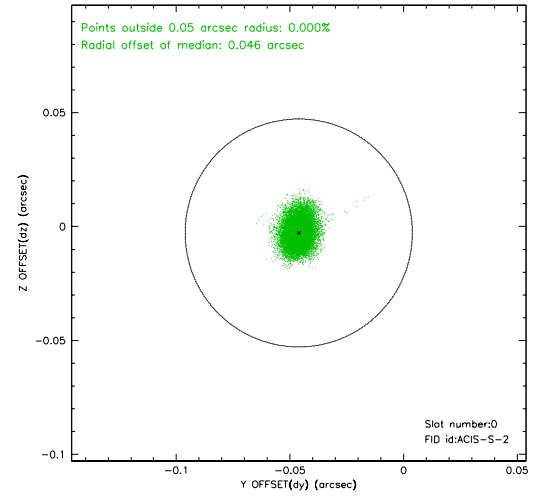
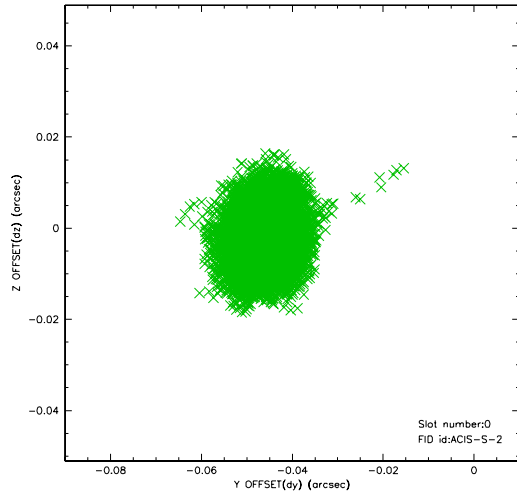


2.4.5 Slot 7

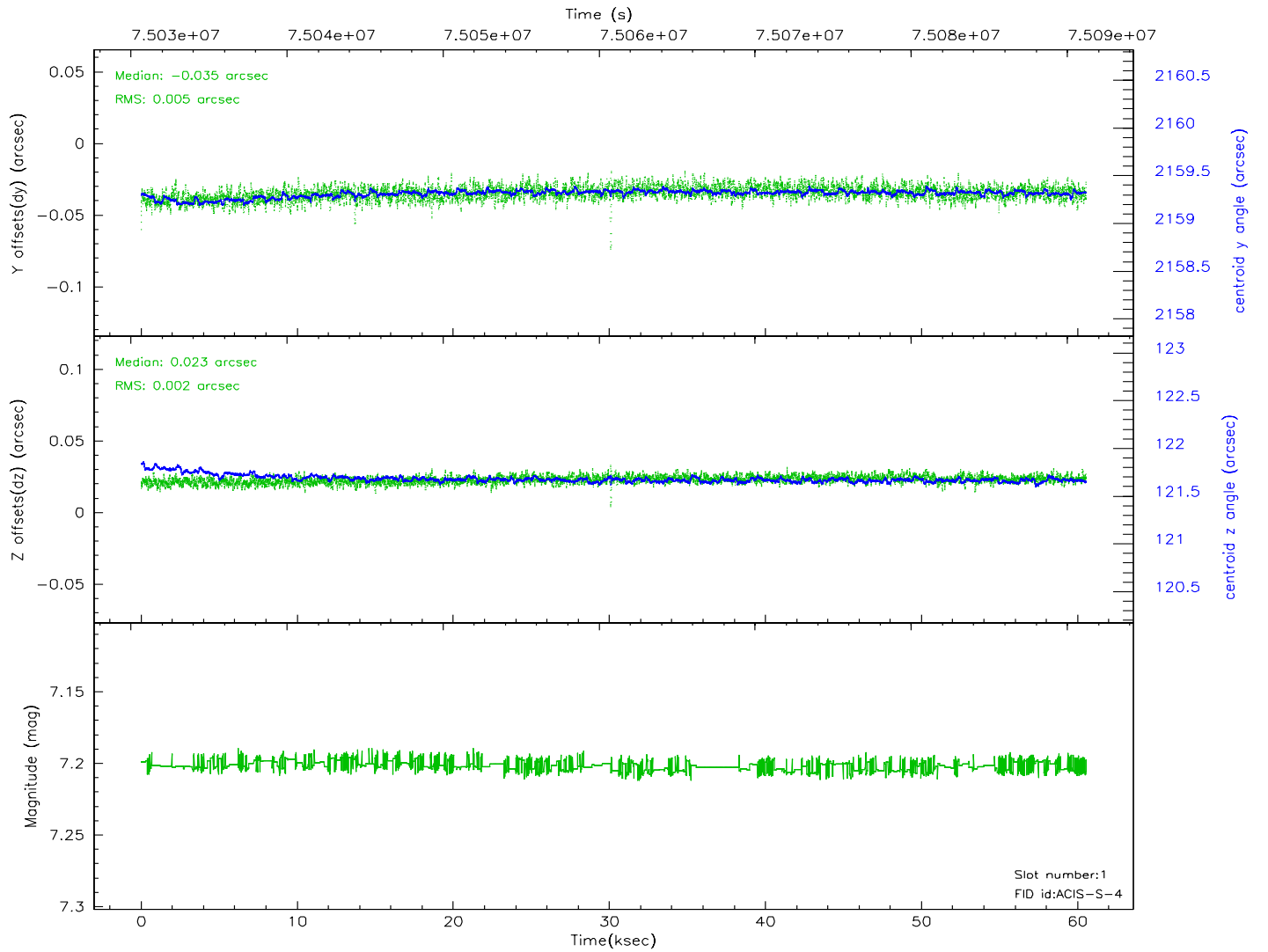
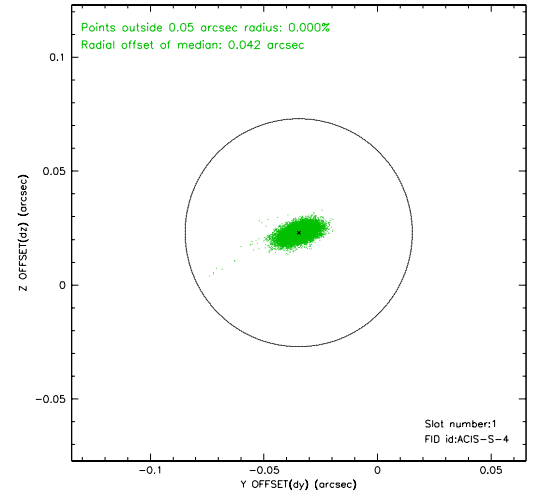
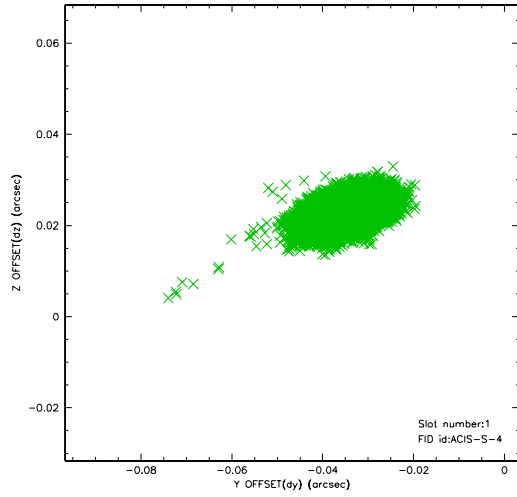


2.5 FID Slots

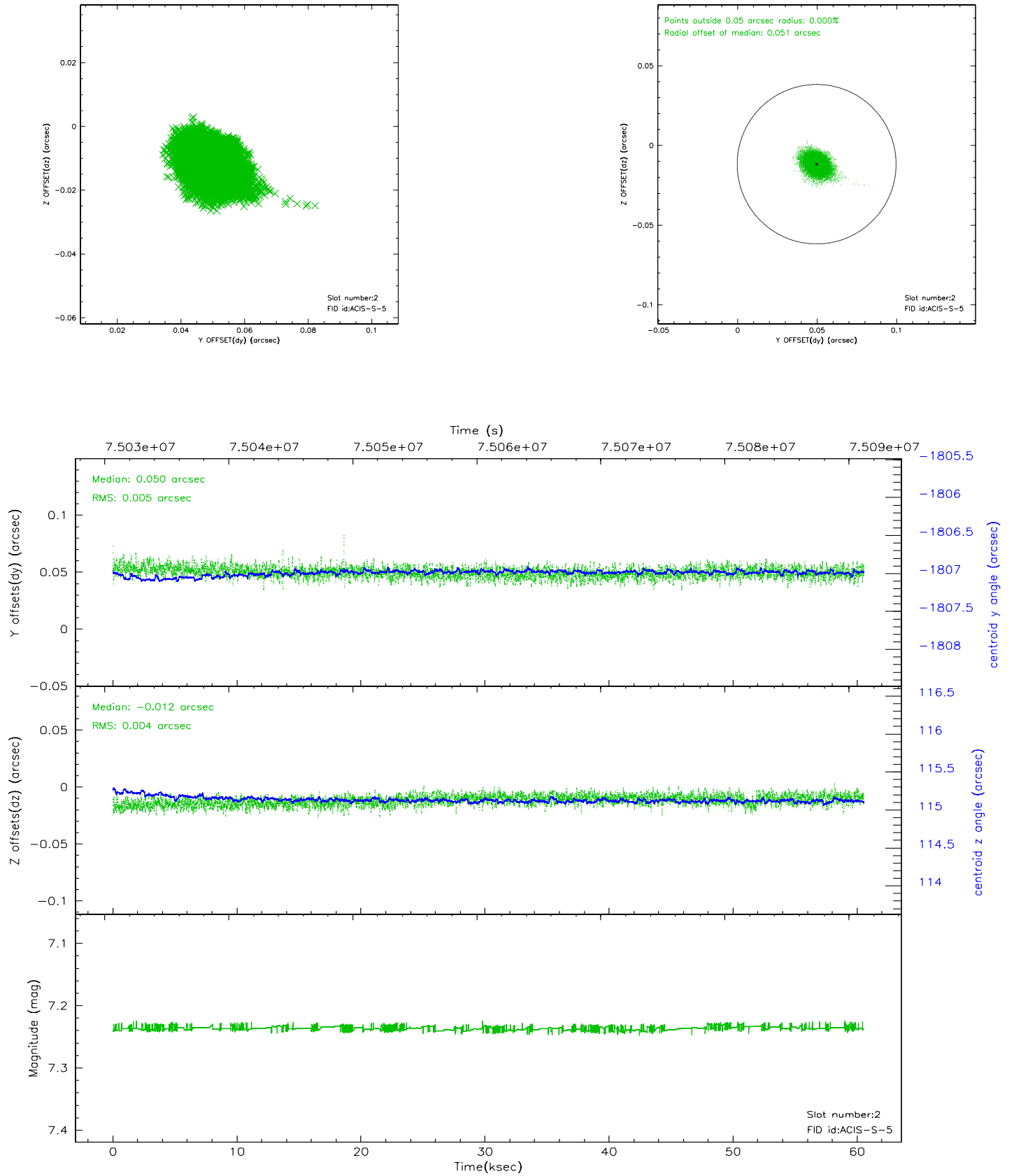
2.5.1 Slot 0



2.5.2 Slot 1

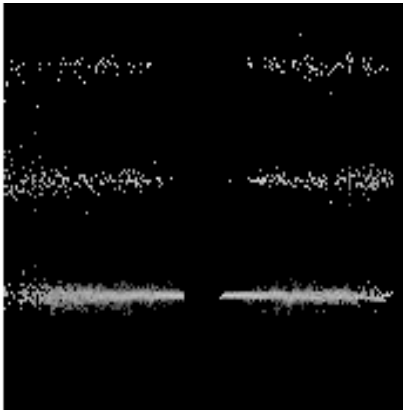


2.5.3 Slot 2

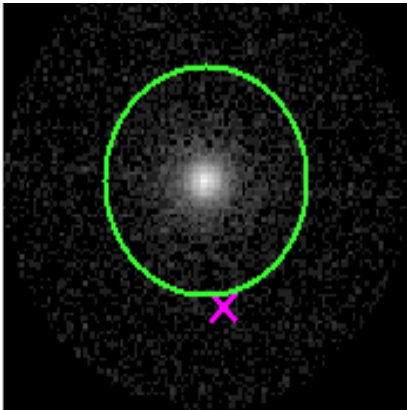


3 Gratings

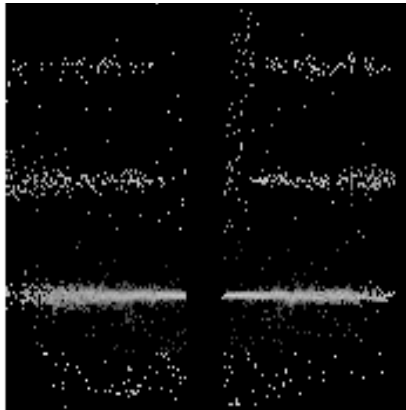
3.1 HEG Arm



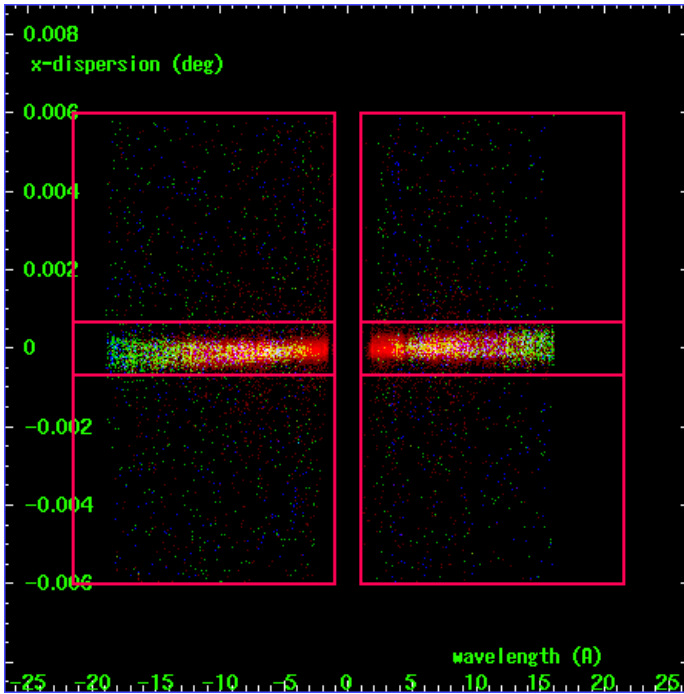
HEG Order Sort 123



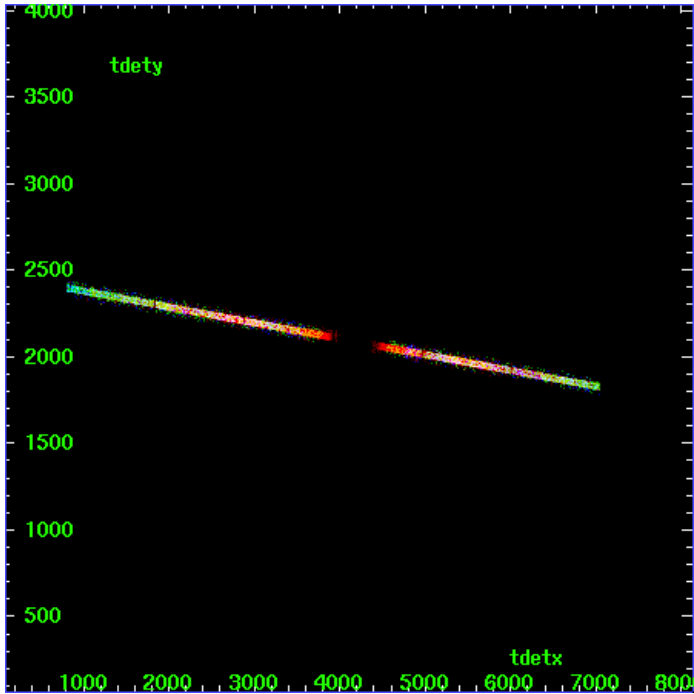
HEG Zero Order



HEG Order Sort ALL

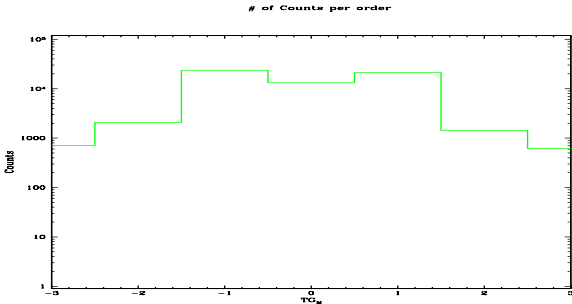


Spot Image HEG

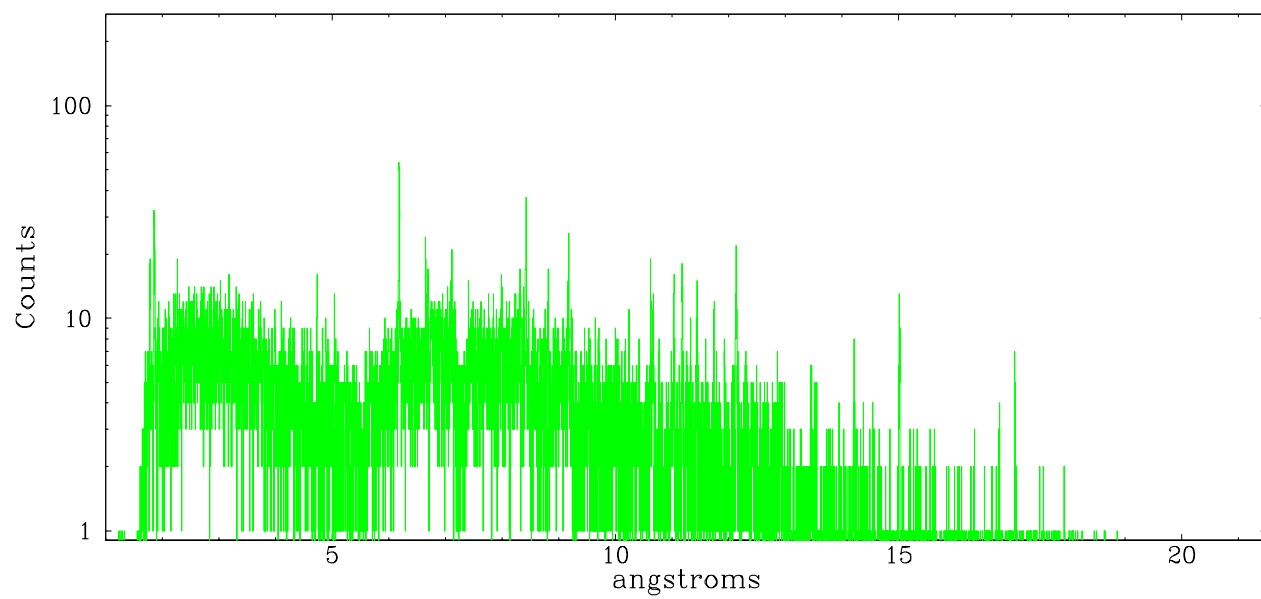


Full Detector HEG

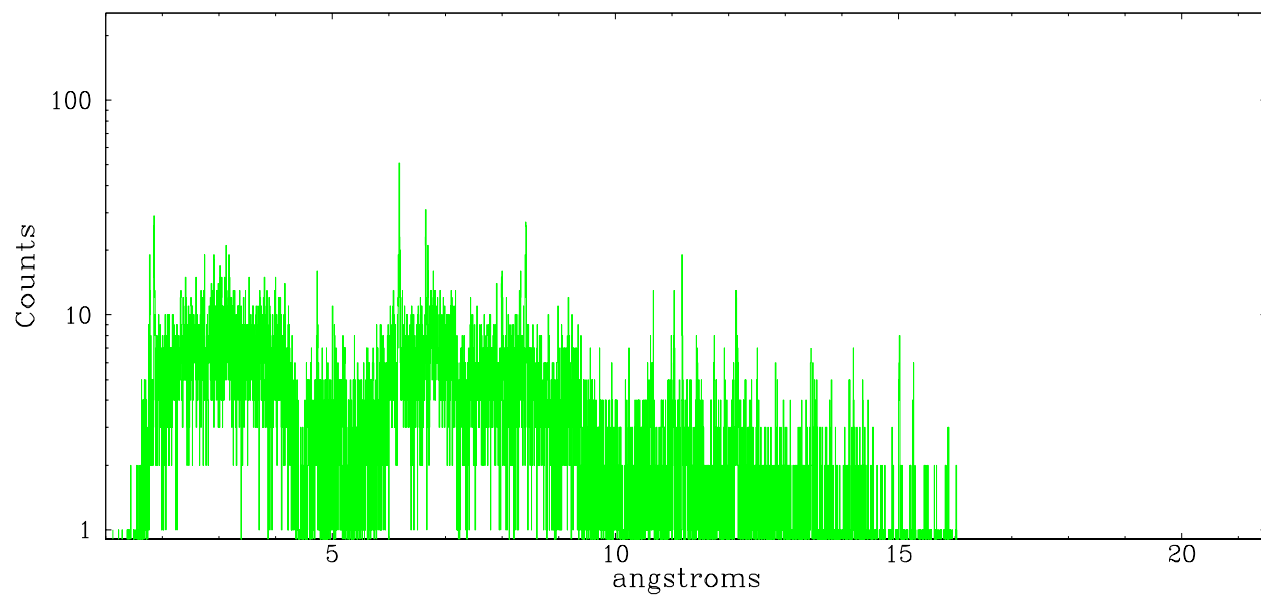
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	709	2081	23668	13123	21033	1430	618



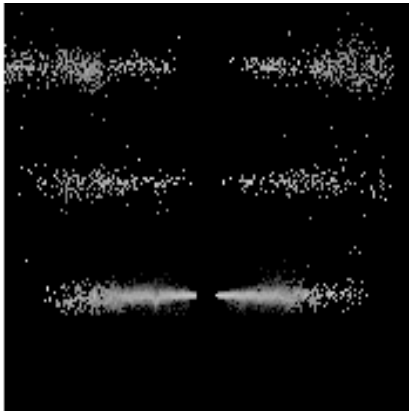
heg order -1



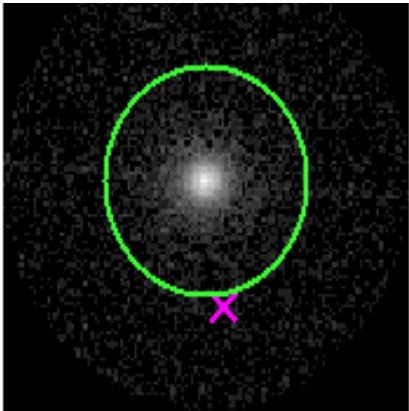
heg order +1



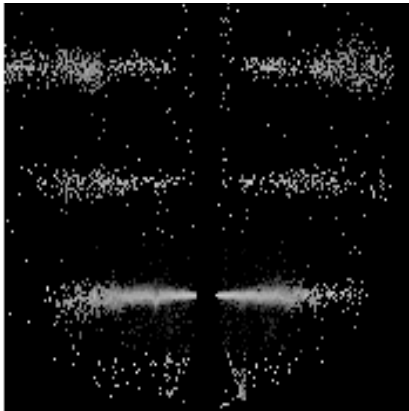
3.2 MEG Arm



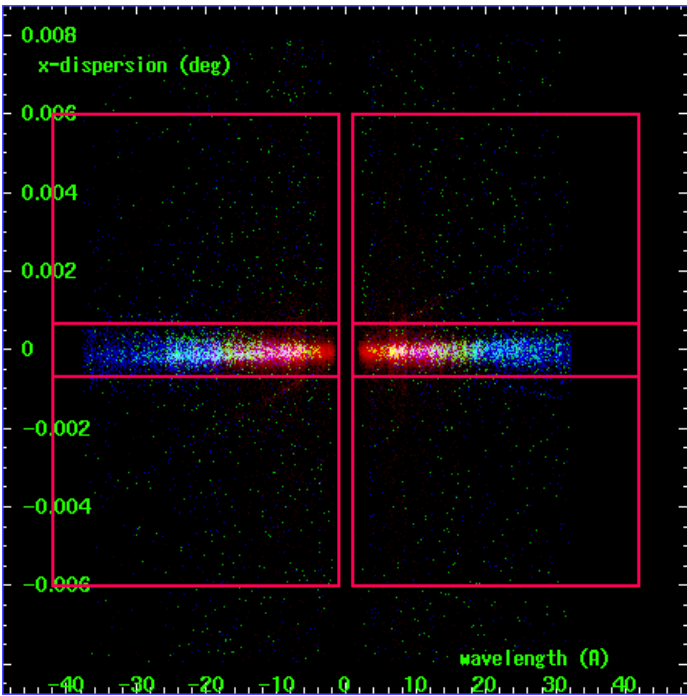
MEG Order Sort 123



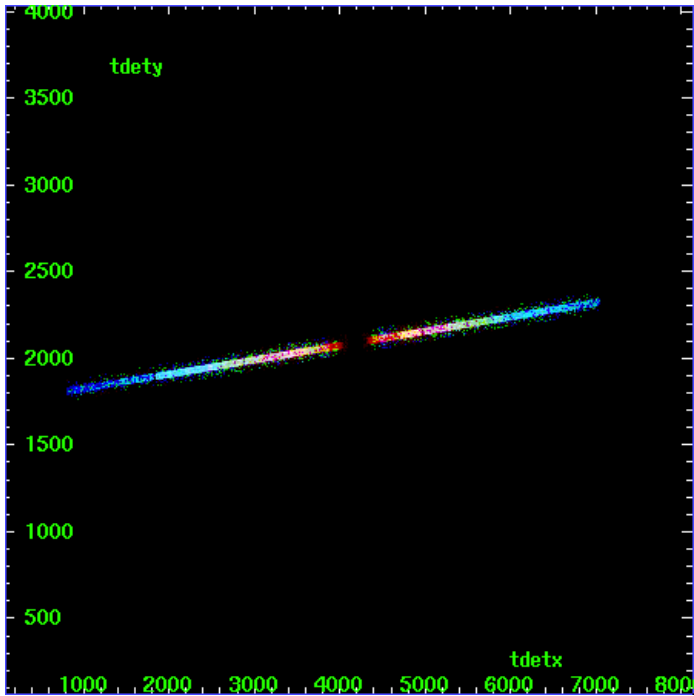
MEG Zero Order



MEG Order Sort ALL

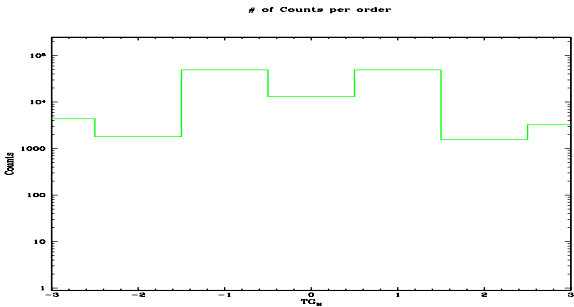


Spot Image MEG

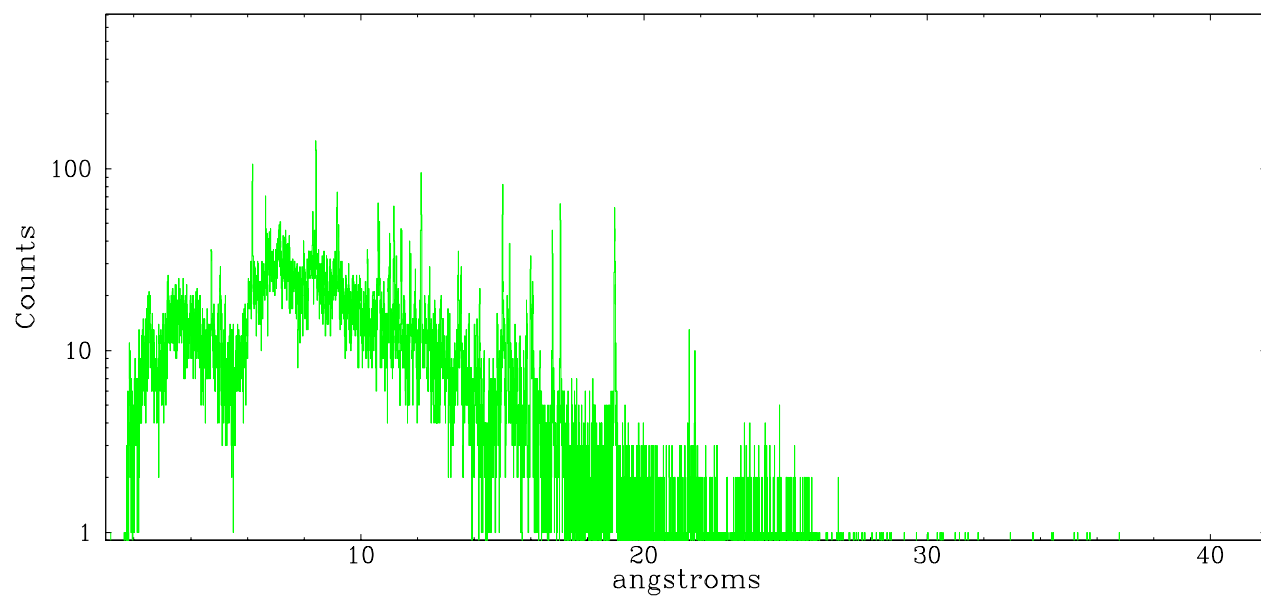


Full Detector MEG

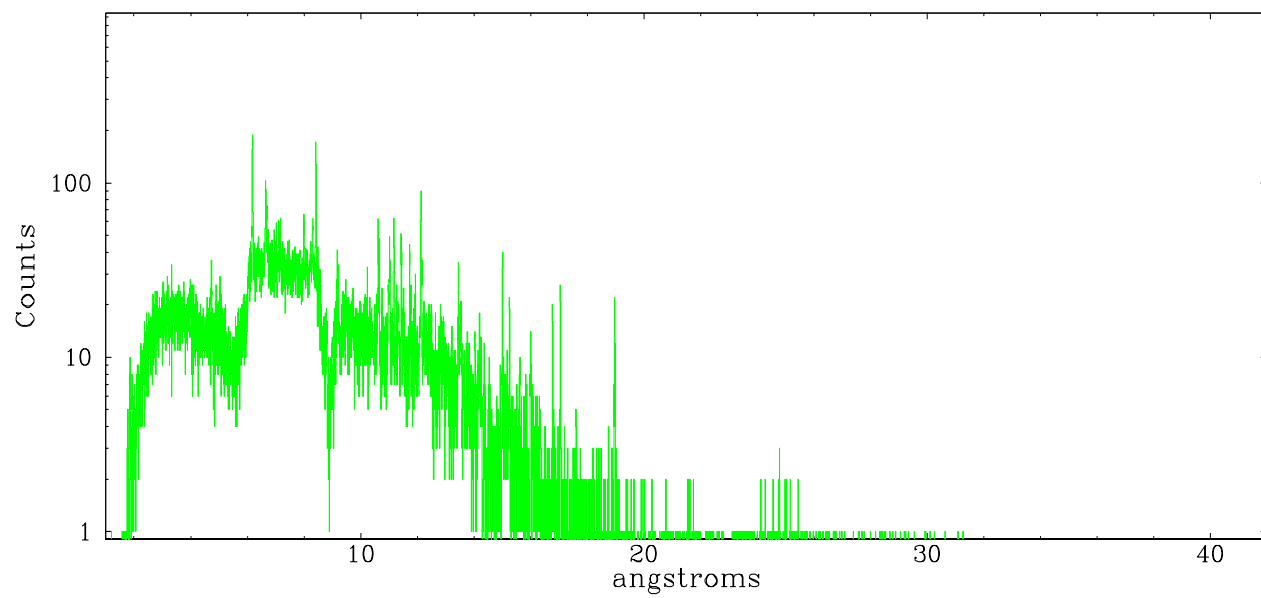
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	4385	1819	49064	13123	49353	1564	3242



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	59.881

A.2 Comments