

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2090 - L2 Version 001
Chandra X-Ray Center

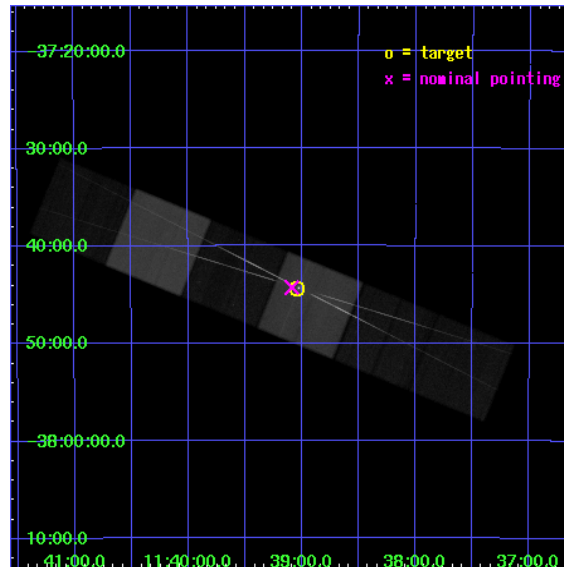
L2 Processing Date : Nov 13 2006

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1 Front

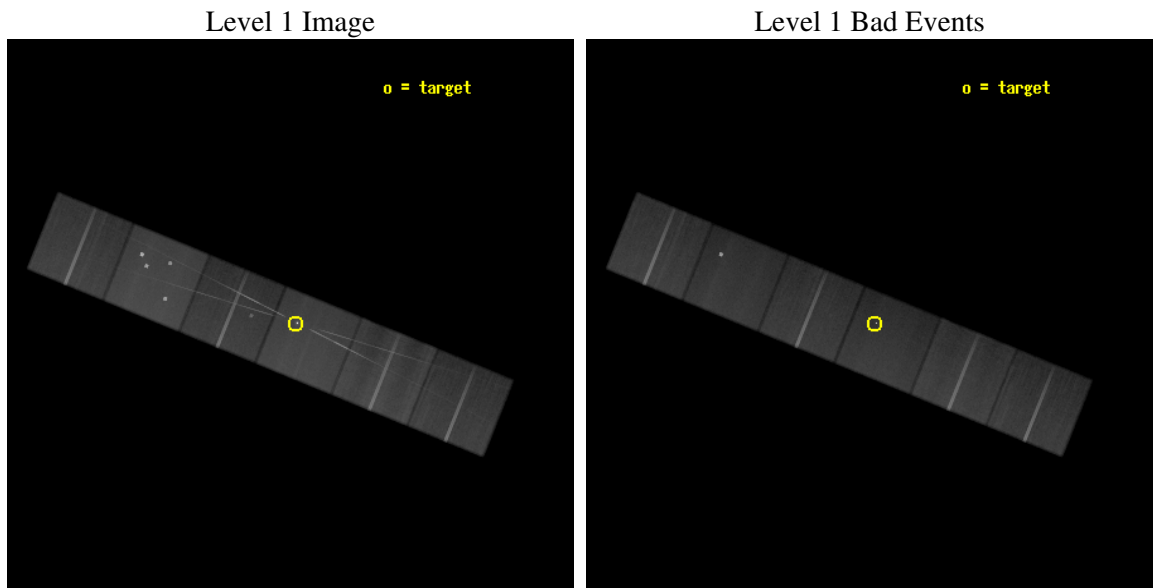
seq_num	700280
obs_id	2090
title	DETERMINING THE NATURE OF THE VARIABLE ABSORPTION IN NGC 3783 WITH CHANDRA/HST
observer	Dr. Ian George
object	NGC 3783
dtcycle	0
cycle	P
ra_targ	174.76
dec_targ	-37.74
ra_nom	174.77215286198
dec_nom	-37.737994596985
roll_nom	22.119731324678
revision	4
ontime	167779.20015626
livetime	165654.67889937
ontime4	167775.959196
ontime5	167779.20015626
ontime6	167779.20015626
ontime7	167779.20015626
ontime8	167779.20015626
ontime9	167772.71820584
l2events	1734213



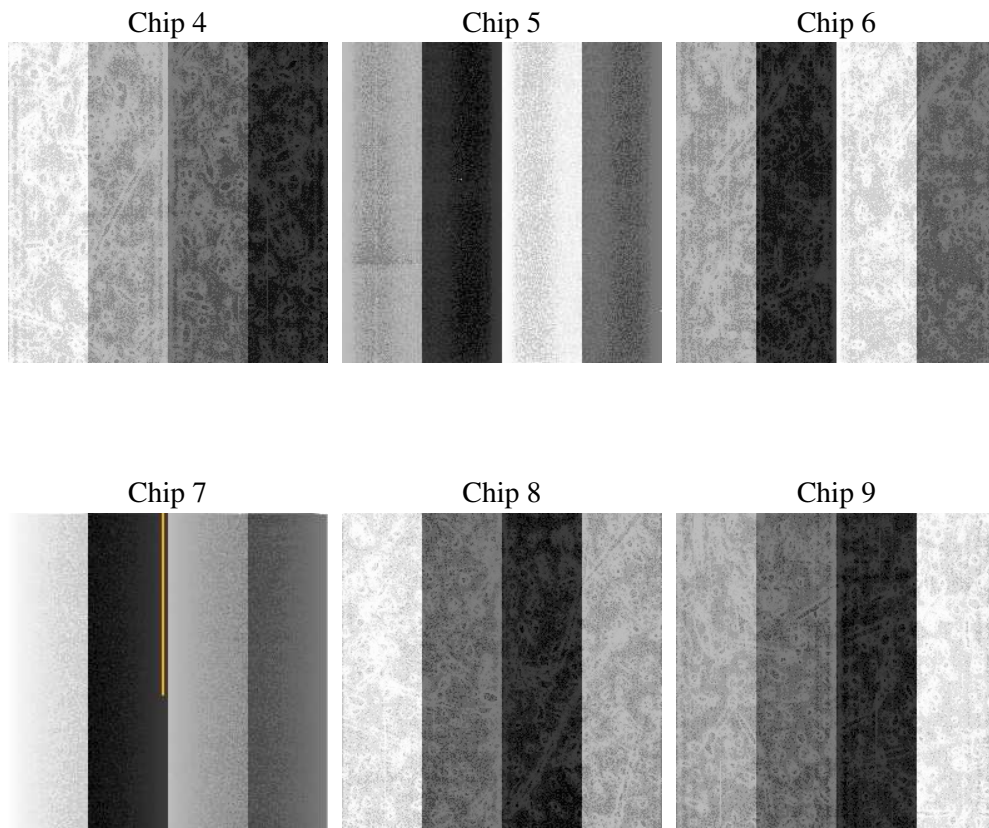
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-11-09T06:52:09
revision	4

sched_exp_time	168004.138000
ontime	167783.49210517
ontime4	167780.25114492
ontime5	167783.49210517
ontime6	167783.49210517
ontime7	167783.49210517
ontime8	167783.49210517
ontime9	167777.01015475
l1events	7861972

2.1.4 Events

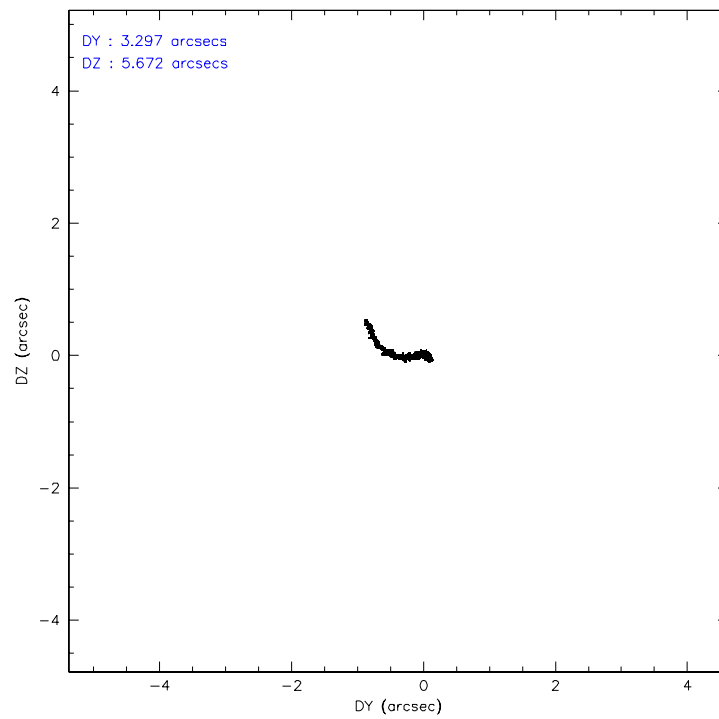
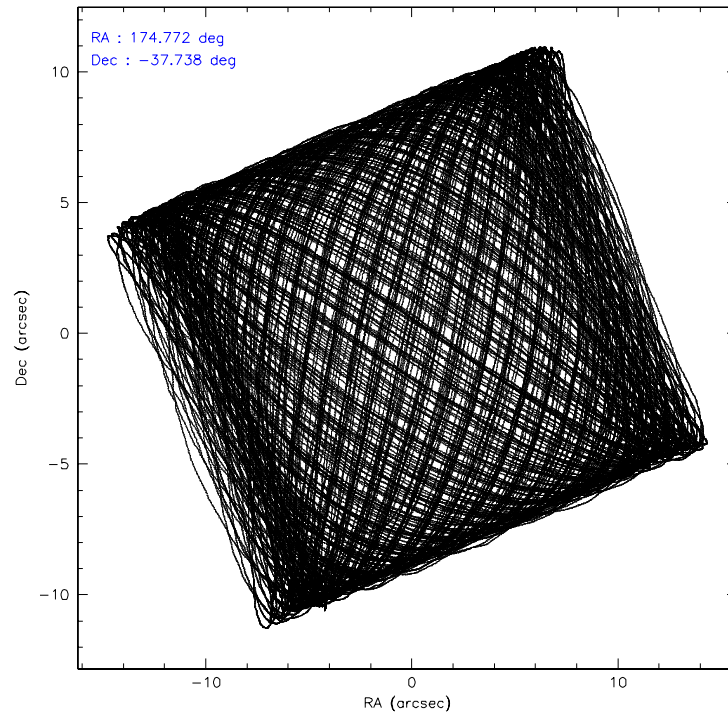
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	1186238	1583774	1150287	1483135	1381648	1076890
rejected events	1058676	859886	963435	868604	1087414	948244
rejected %	89%	54%	83%	58%	78%	88%

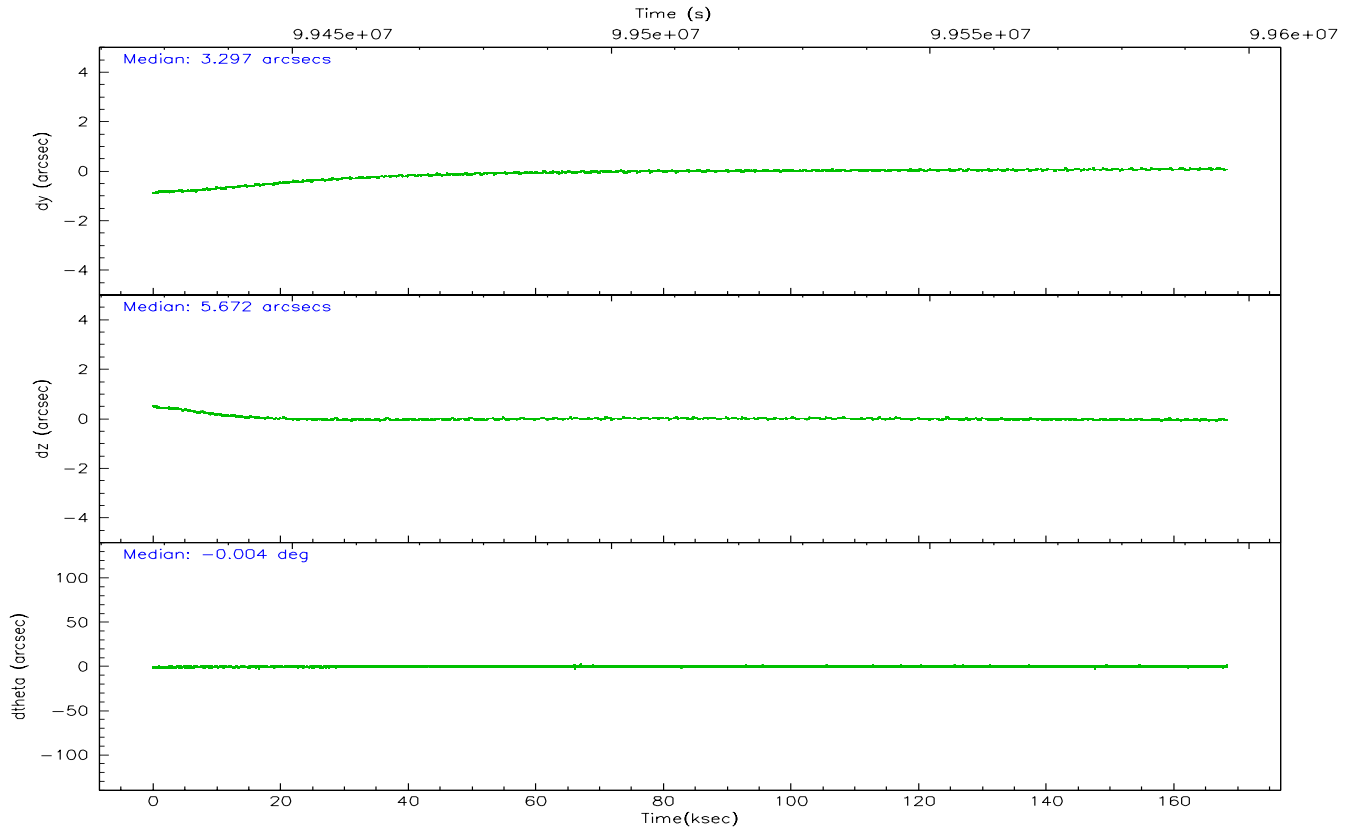
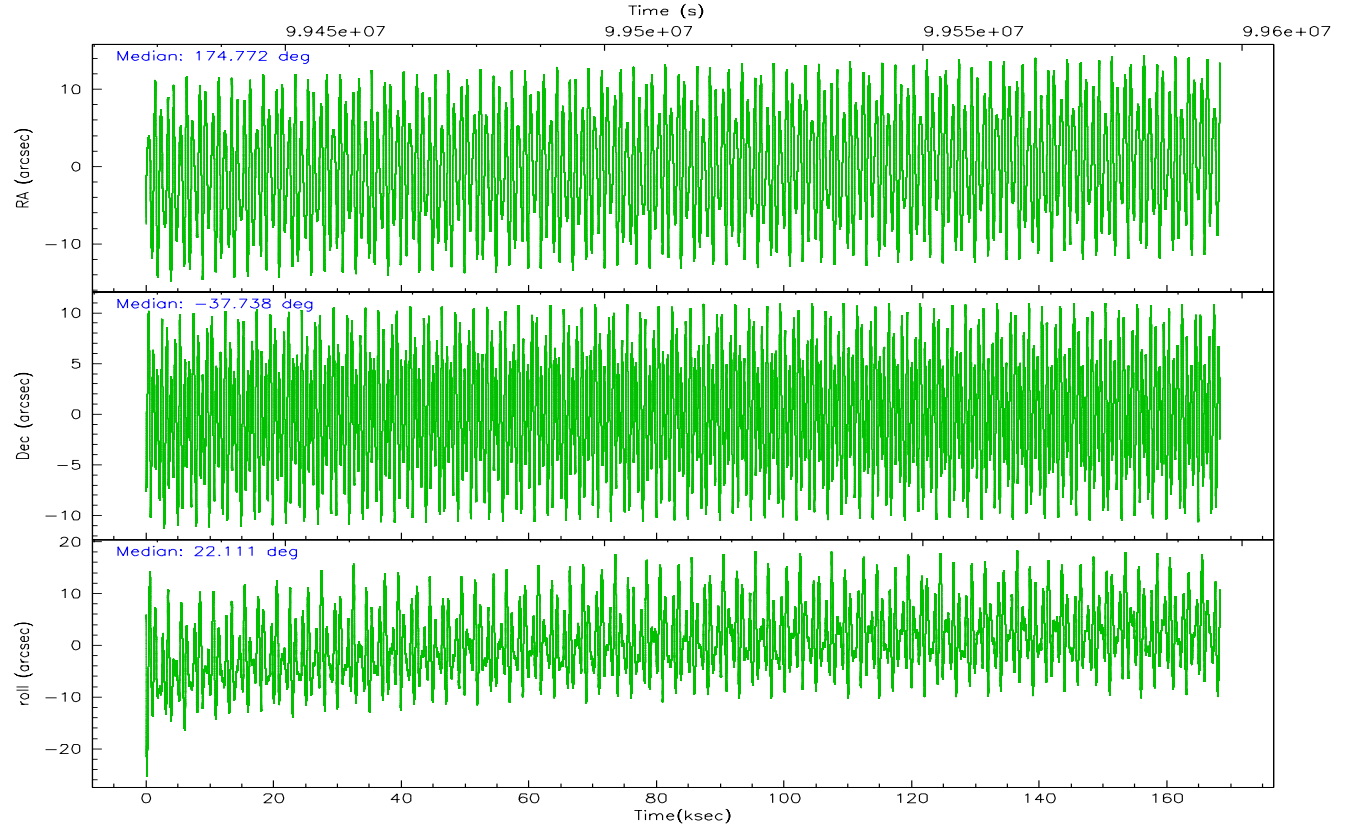
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	52003	110573	99640	45442	106292	53536
	4%	6%	8%	3%	7%	4%
grade 1 events	609	1016	755	1690	870	465
	0%	0%	0%	0%	0%	0%
grade 2 events	30359	212414	31601	150216	59925	25470
	2%	13%	2%	10%	4%	2%
grade 3 events	11902	15576	14853	36311	29743	12594
	1%	0%	1%	2%	2%	1%
grade 4 events	11428	14604	14648	35253	27990	12140
	0%	0%	1%	2%	2%	1%
grade 5 events	38145	73682	45627	97954	56869	45432
	3%	4%	3%	6%	4%	4%
grade 6 events	21874	370731	26112	347326	70299	24908
	1%	23%	2%	23%	5%	2%
grade 7 events	1019918	785178	917051	768943	1029660	90234
	85%	49%	79%	51%	74%	83%

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	174.751178	174.7721528619777	Subarray requested	NONE	NONE
Pointing Dec	-37.759710	-37.73799459698547	Alternating exposures requested	N	N
Pointing Roll	21.950260	22.11973132467815	Primary exposure time	0.000000	3.2
Window start time	99357915.184000	99357915.184000			
Window stop time	99620885.184000	99620885.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
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	99428552.184000	99427497.283344			
Observation start date	2001-02-24T19:01:28	2001-02-24T18:44:57			
Observation end time	99596557.184000	99596871.36488099			
Observation end date	2001-02-26T17:41:33	2001-02-26T17:47:51			
Read mode	TIMED	TIMED			

2.3 Aspect



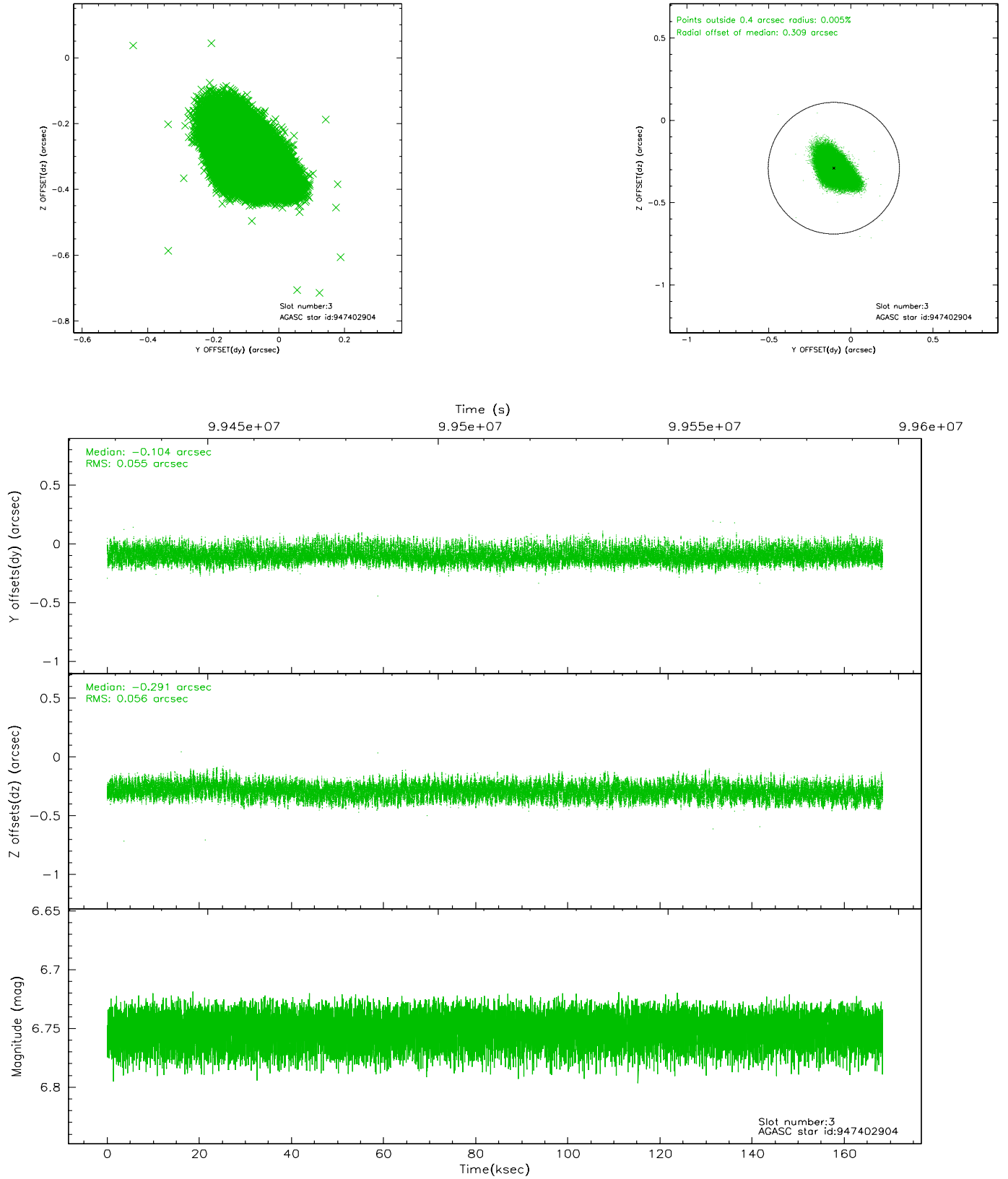


Slot Statistics

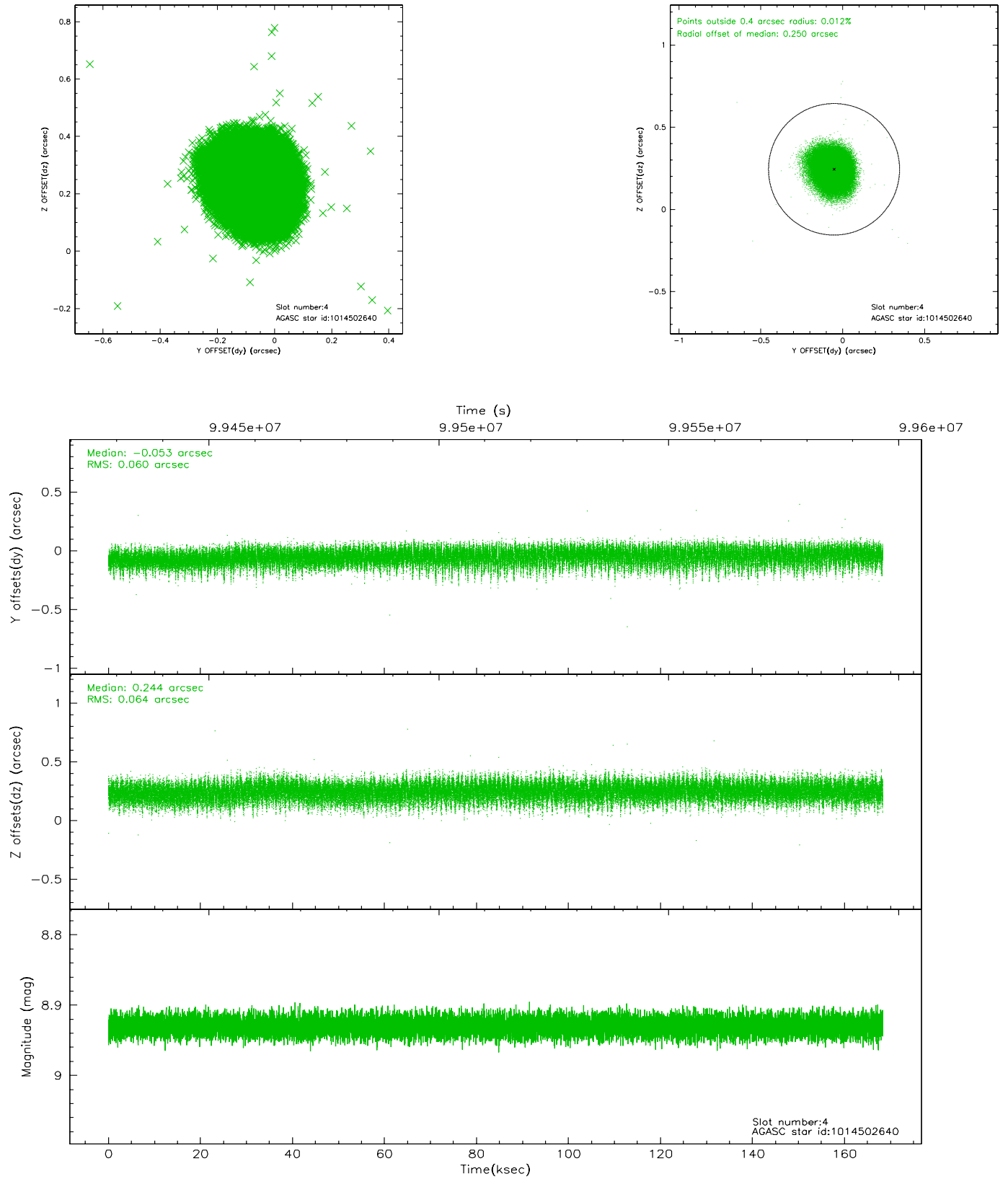
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	41067	0.004	0.017	0.008	0.019	0.000000	0.000000	-755.62	-1788.95
1	FID	ACIS-S-4	7.19	41060	-0.025	0.003	0.007	0.014	0.000000	0.000000	2157.68	119.65
2	FID	ACIS-S-6	7.38	41062	-0.006	-0.012	0.008	0.013	0.000000	0.000000	406.20	756.89
3	GUIDE	947402904	6.75	82126	-0.104	-0.291	0.081	0.141	174.169681	-37.237184	-845.12	2362.58
4	GUIDE	1014502640	8.93	82108	-0.053	0.244	0.093	0.152	174.596525	-38.477729	-1370.43	-2234.82
5	GUIDE	947388944	9.17	82097	0.098	-0.133	0.108	0.176	173.946026	-37.468256	-1745.55	1823.64
6	GUIDE	1014497968	10.00	82069	0.074	0.140	0.154	0.250	174.377296	-37.990619	-1295.33	-376.46
7	GUIDE	1014633104	10.51	81997	-0.039	0.067	0.230	0.438	175.707004	-38.101029	2047.31	-2164.36

2.4 Star Slots

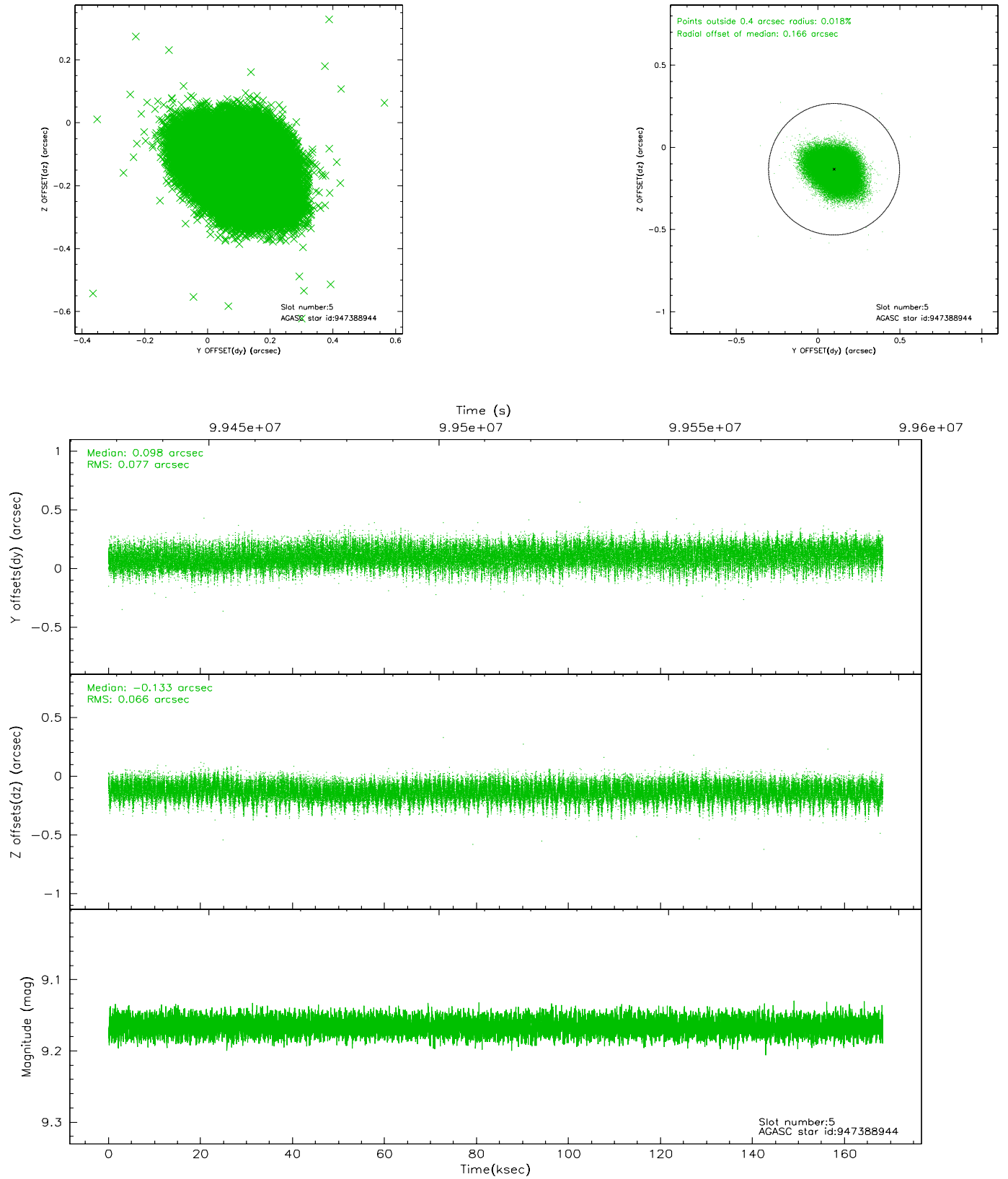
2.4.1 Slot 3



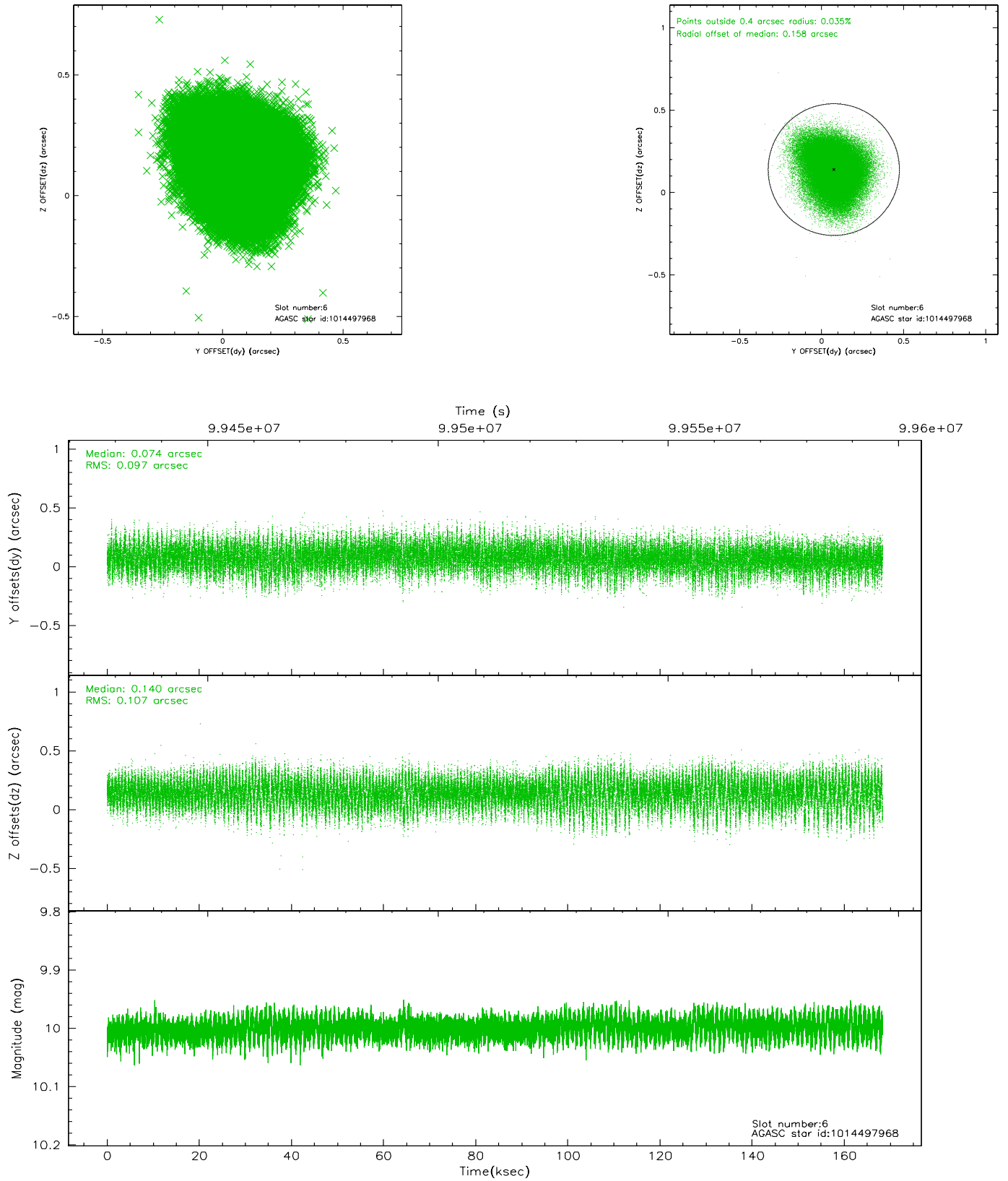
2.4.2 Slot 4



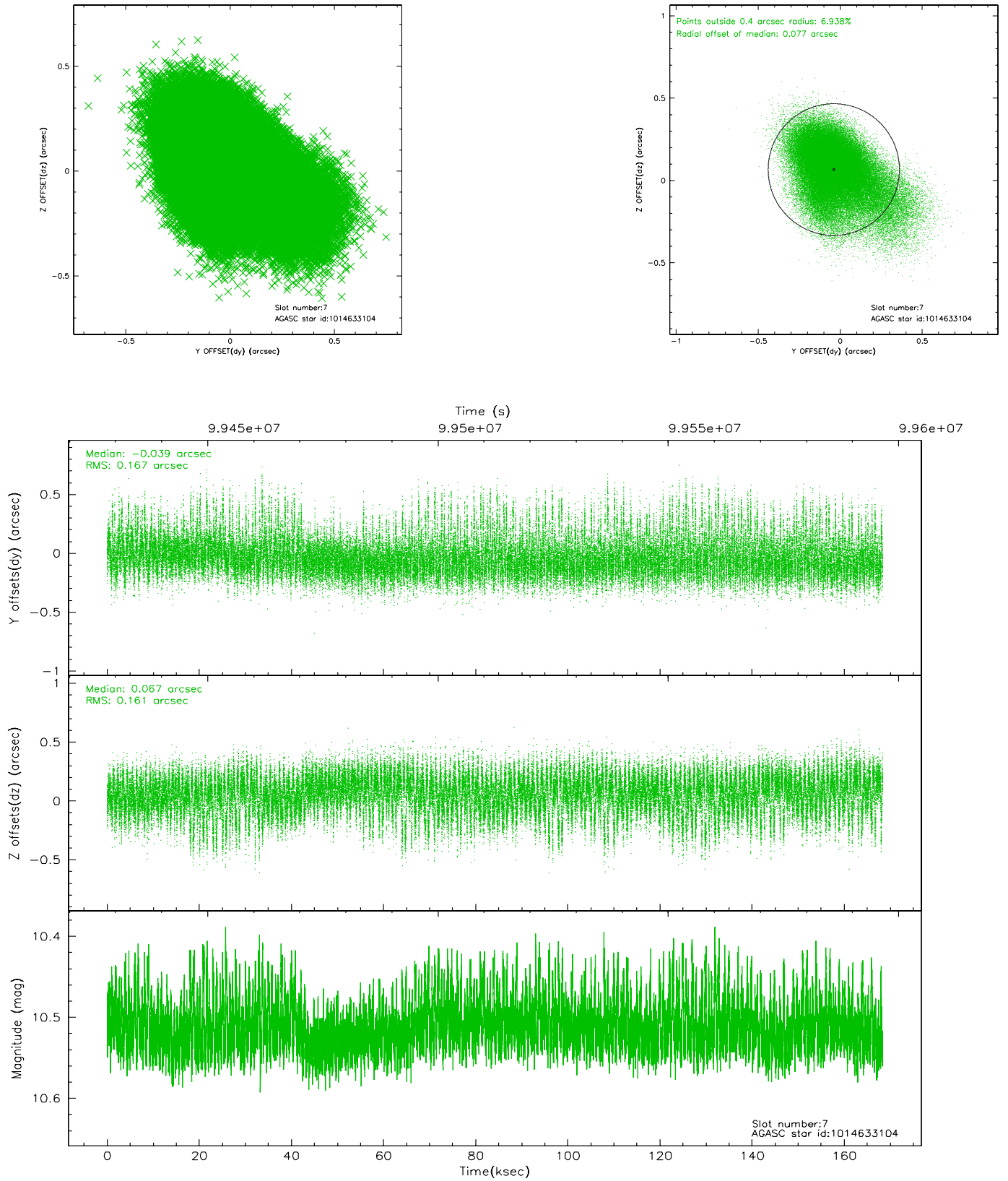
2.4.3 Slot 5



2.4.4 Slot 6

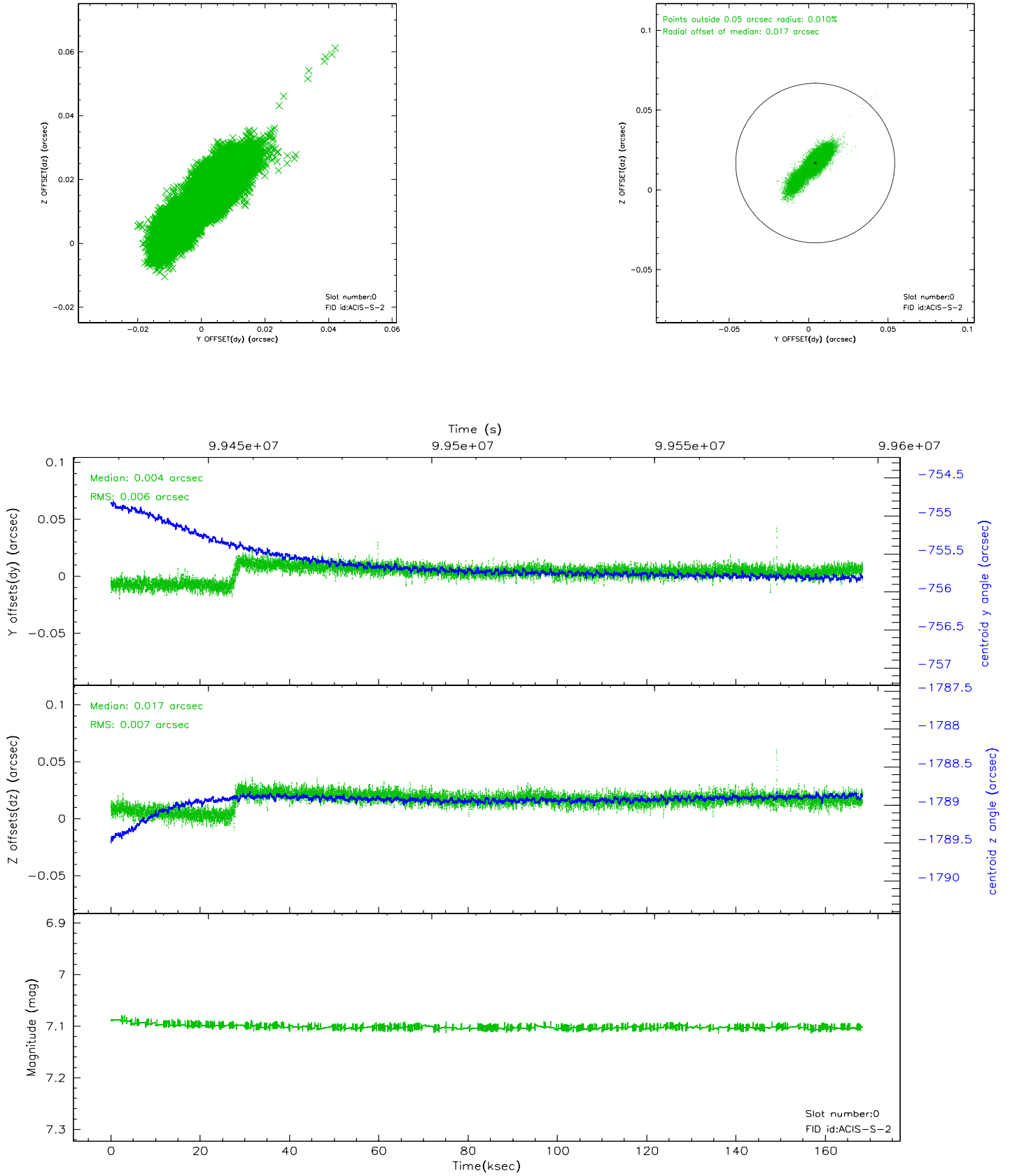


2.4.5 Slot 7

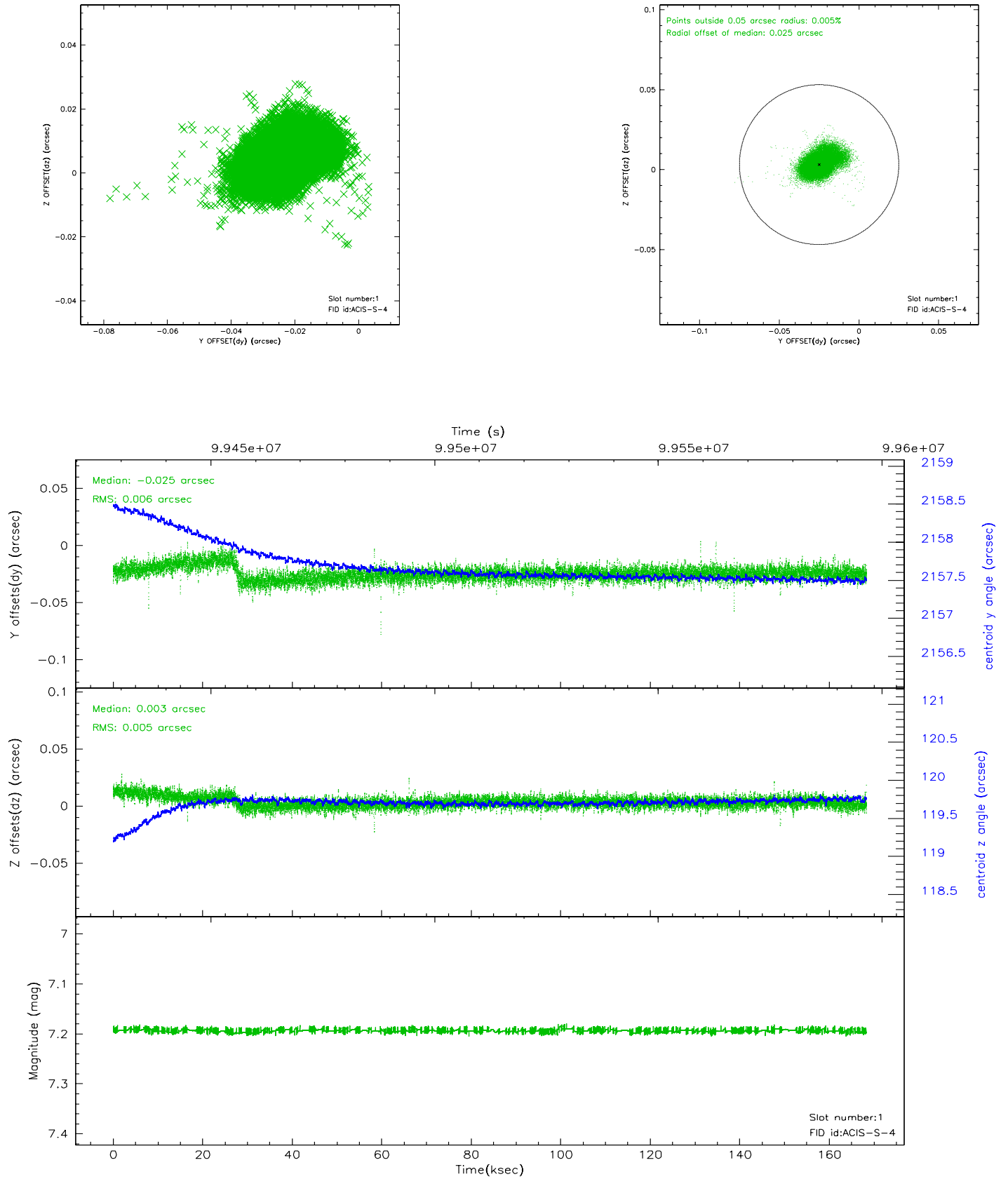


2.5 FID Slots

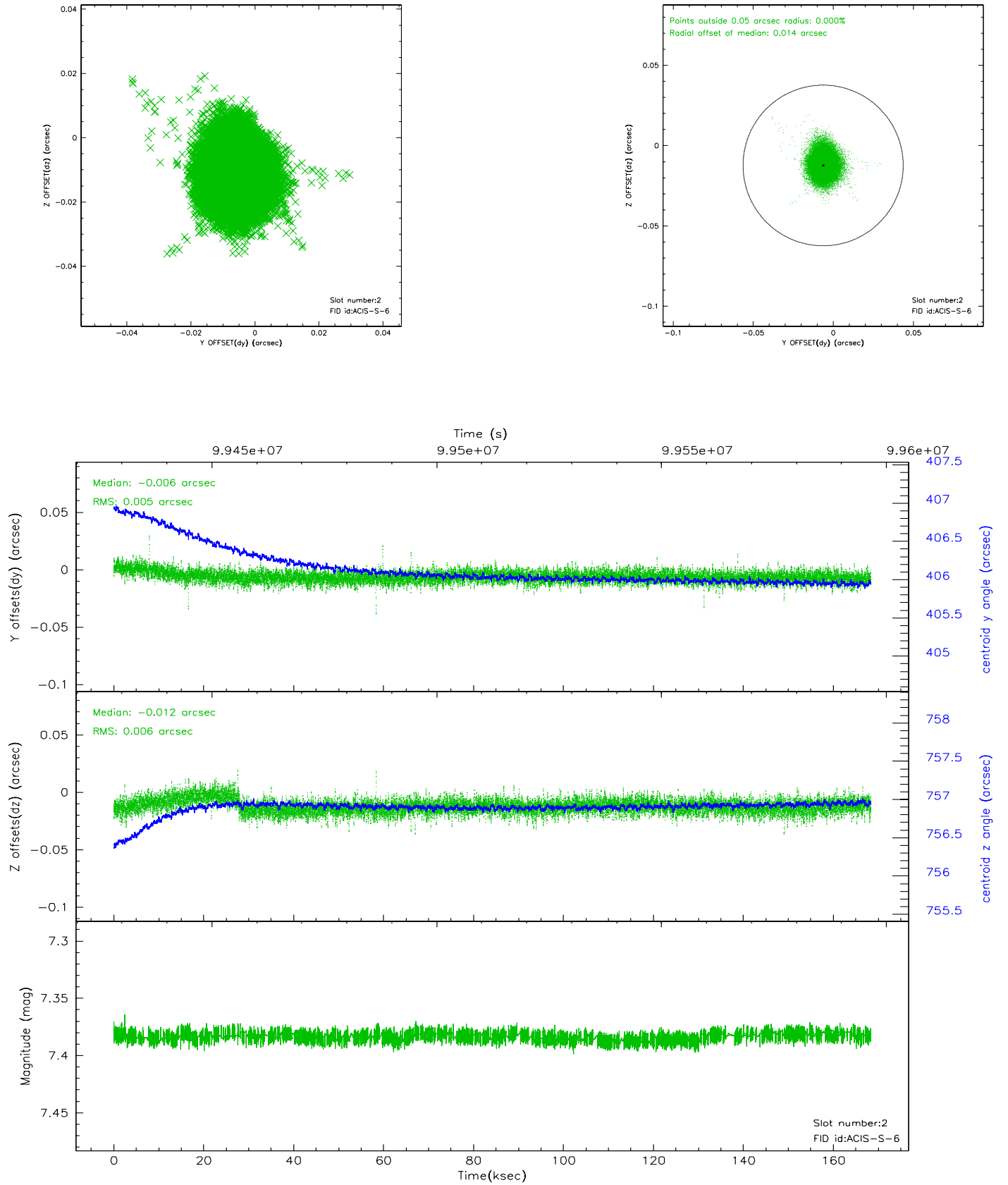
2.5.1 Slot 0



2.5.2 Slot 1

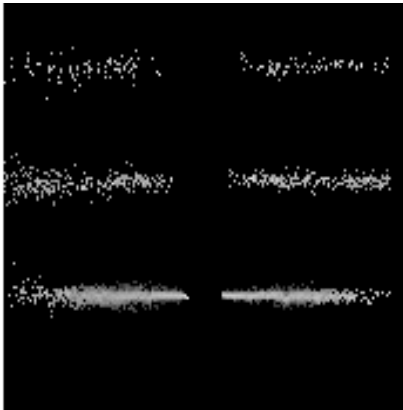


2.5.3 Slot 2

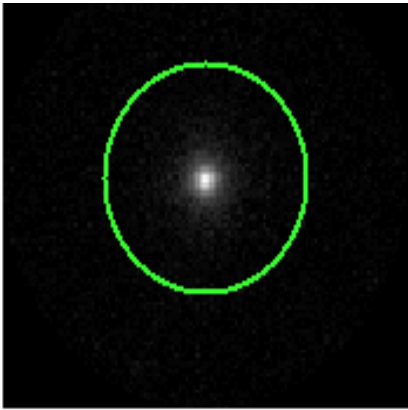


3 Gratings

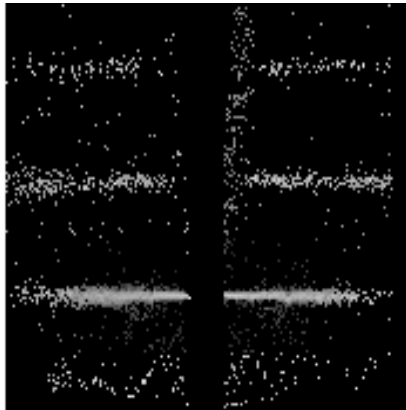
3.1 HEG Arm



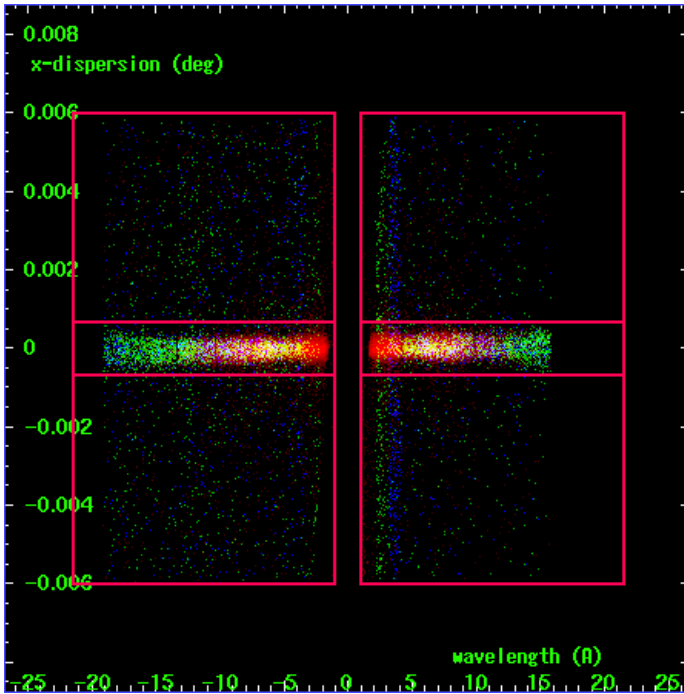
HEG Order Sort 123



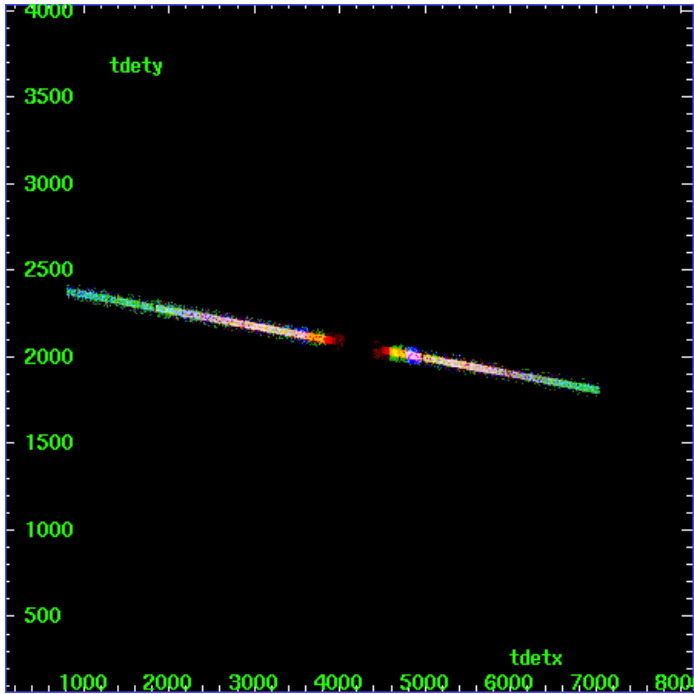
HEG Zero Order



HEG Order Sort ALL

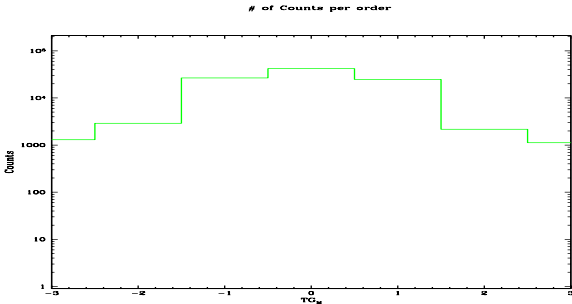


Spot Image HEG

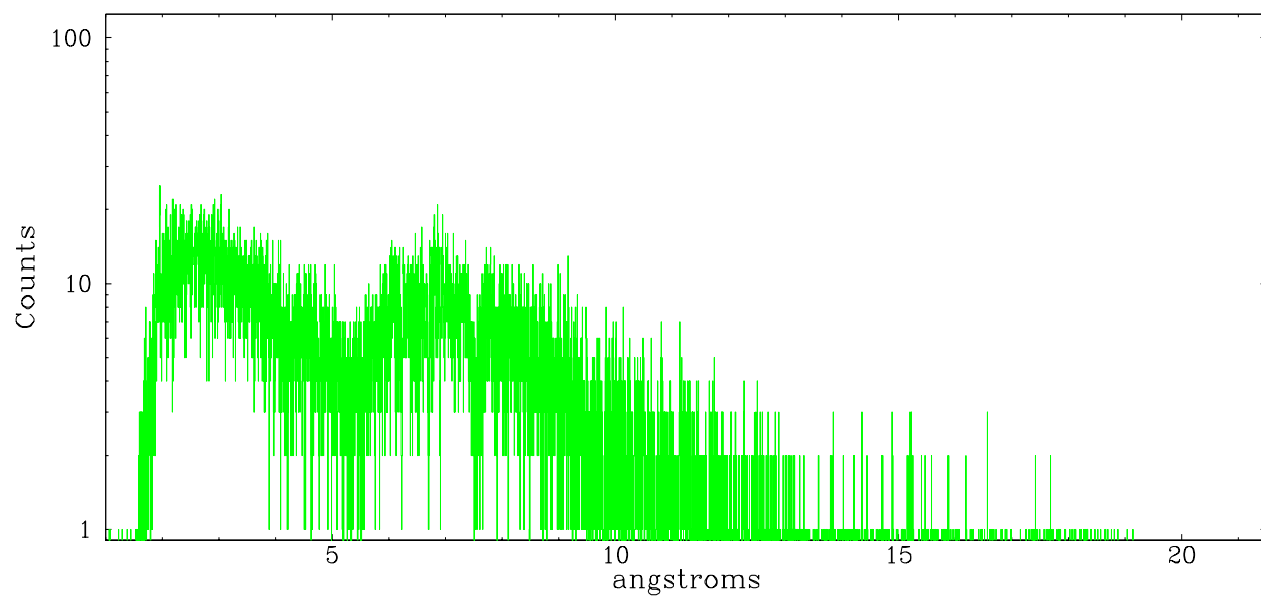


Full Detector HEG

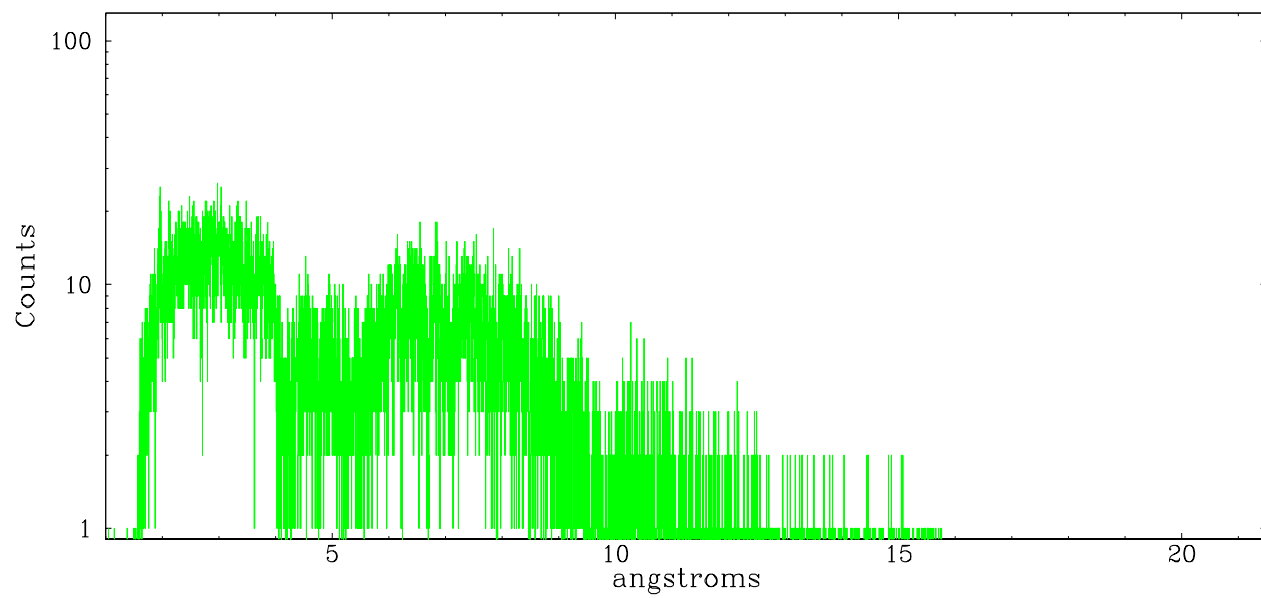
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1295	2909	26588	42004	24718	2165	1125



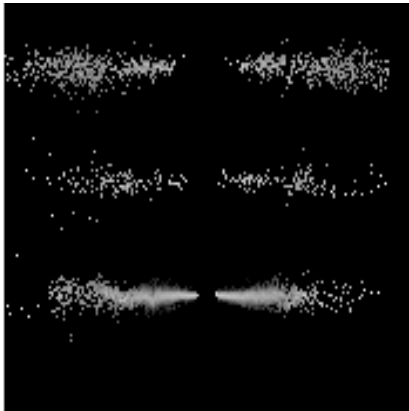
heg order -1



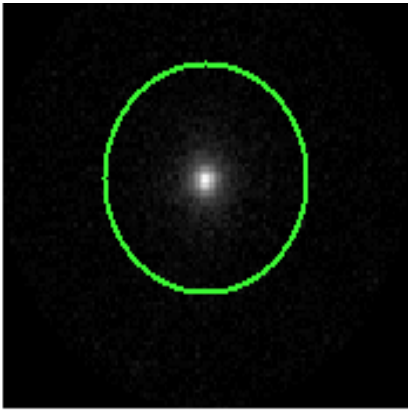
heg order +1



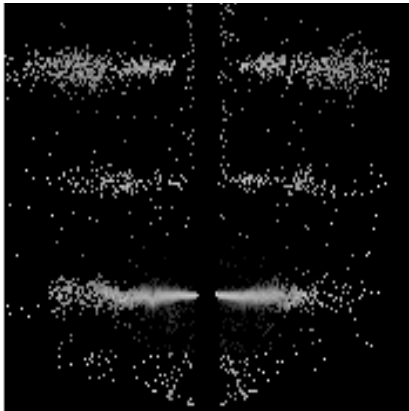
3.2 MEG Arm



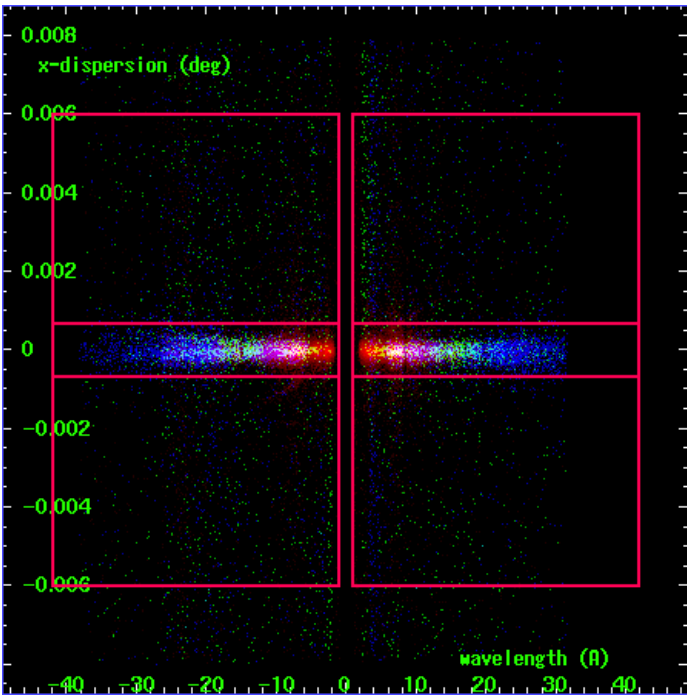
MEG Order Sort 123



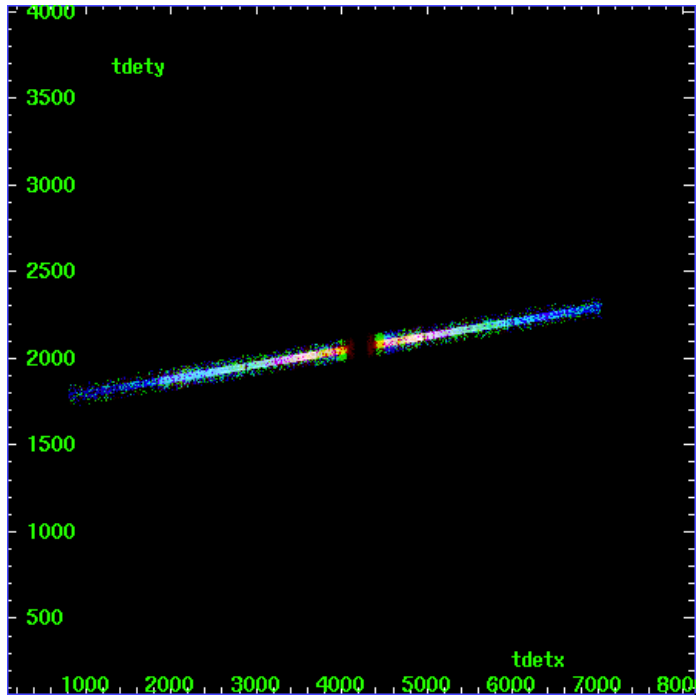
MEG Zero Order



MEG Order Sort ALL

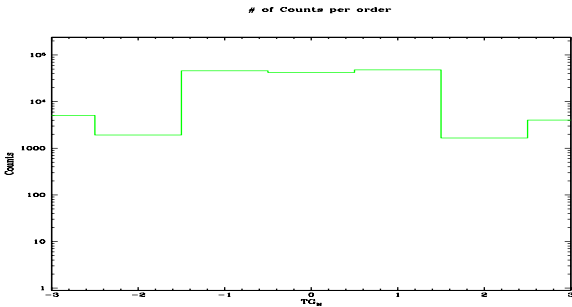


Spot Image MEG

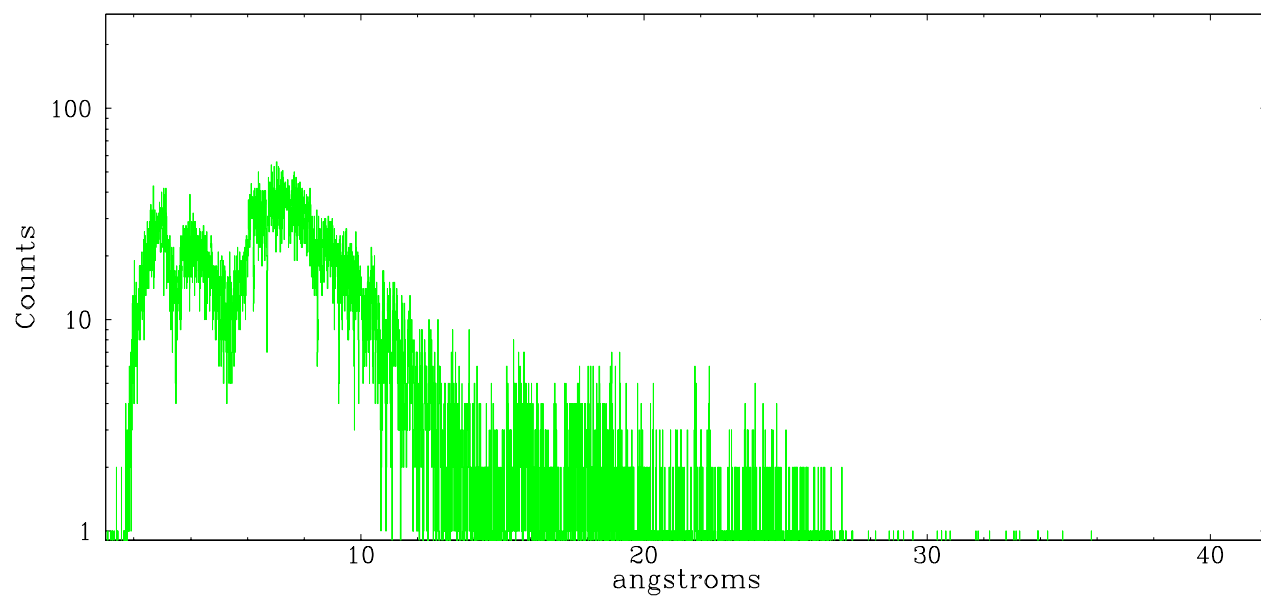


Full Detector MEG

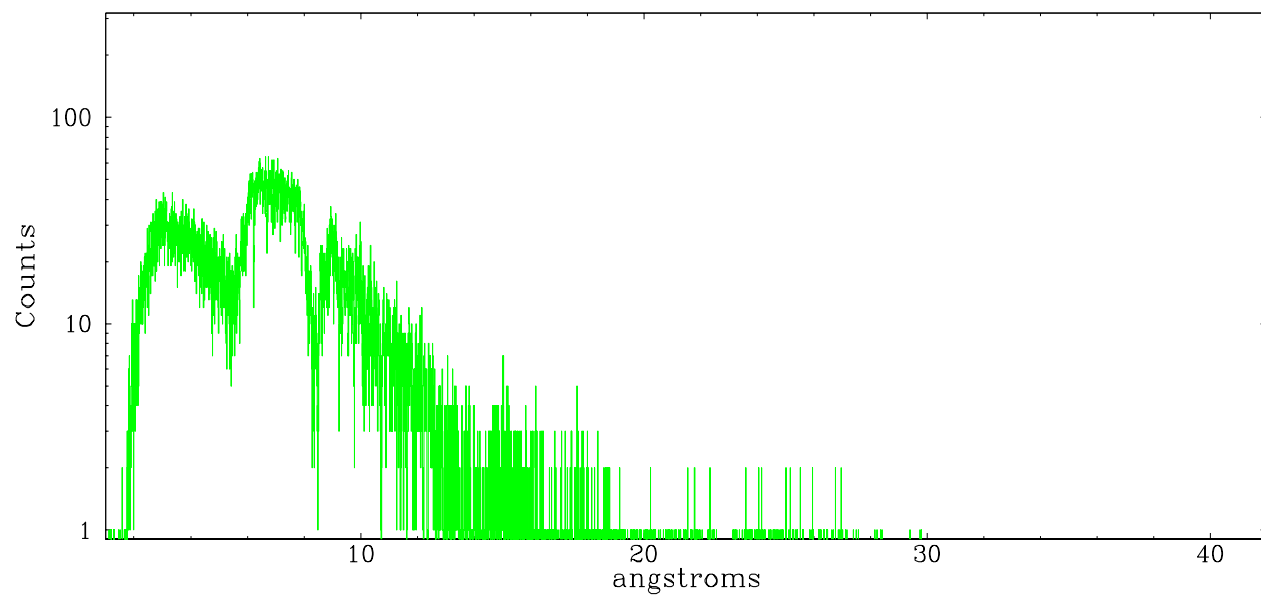
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	5085	1922	45678	42004	47972	1665	4039



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	167.779

A.2 Comments

Coordinated with HST,FUSE,RXTE,GROUND-BASED. Time constraint met.