

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2092 - L2 Version 001
Chandra X-Ray Center

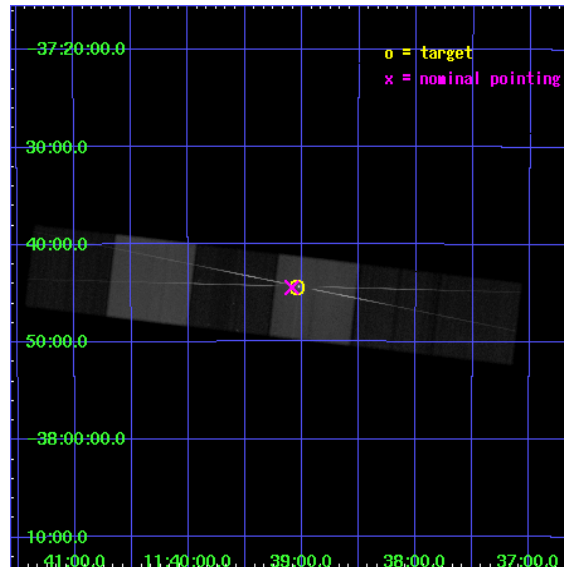
L2 Processing Date : Nov 8 2006

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1 Front

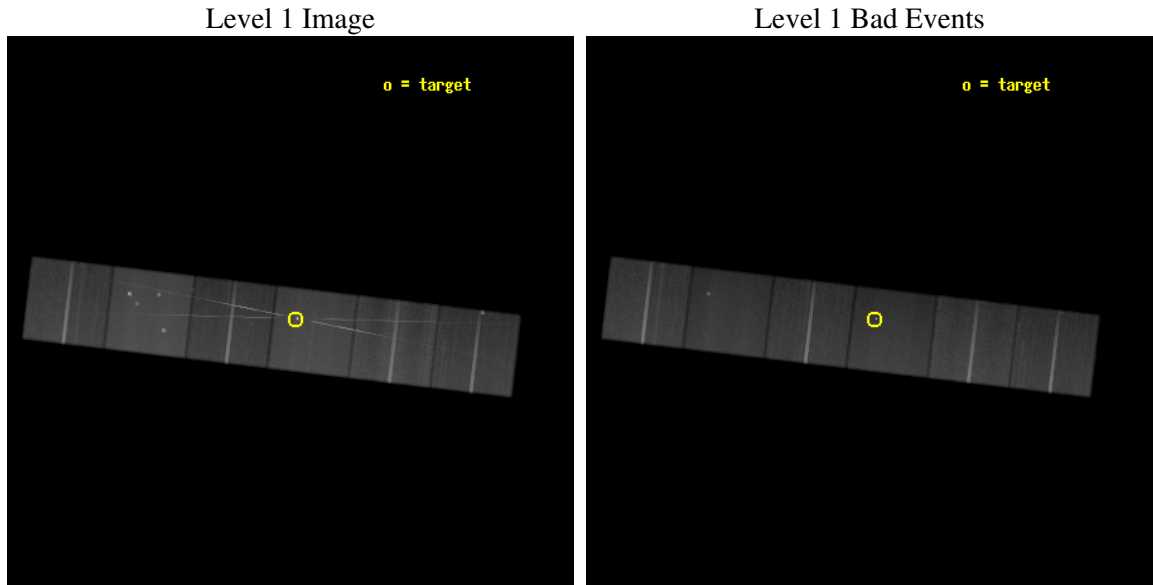
seq_num	700282
obs_id	2092
title	DETERMINING THE NATURE OF THE VARIABLE ABSORPTION IN NGC 3783 WITH CHANDRA/HST
observer	Dr. Ian George
object	NGC 3783
dtcycle	0
cycle	P
ra_targ	174.76
dec_targ	-37.74
ra_nom	174.77237611552
dec_nom	-37.740617370439
roll_nom	6.7102274996852
revision	2
ontime	167571.07722542
livetime	165449.1913464
ontime4	167571.07721542
ontime5	167577.55918583
ontime6	167574.31820558
ontime7	167571.07722542
ontime8	167574.31818566
ontime9	167577.55917582
l2events	1821215



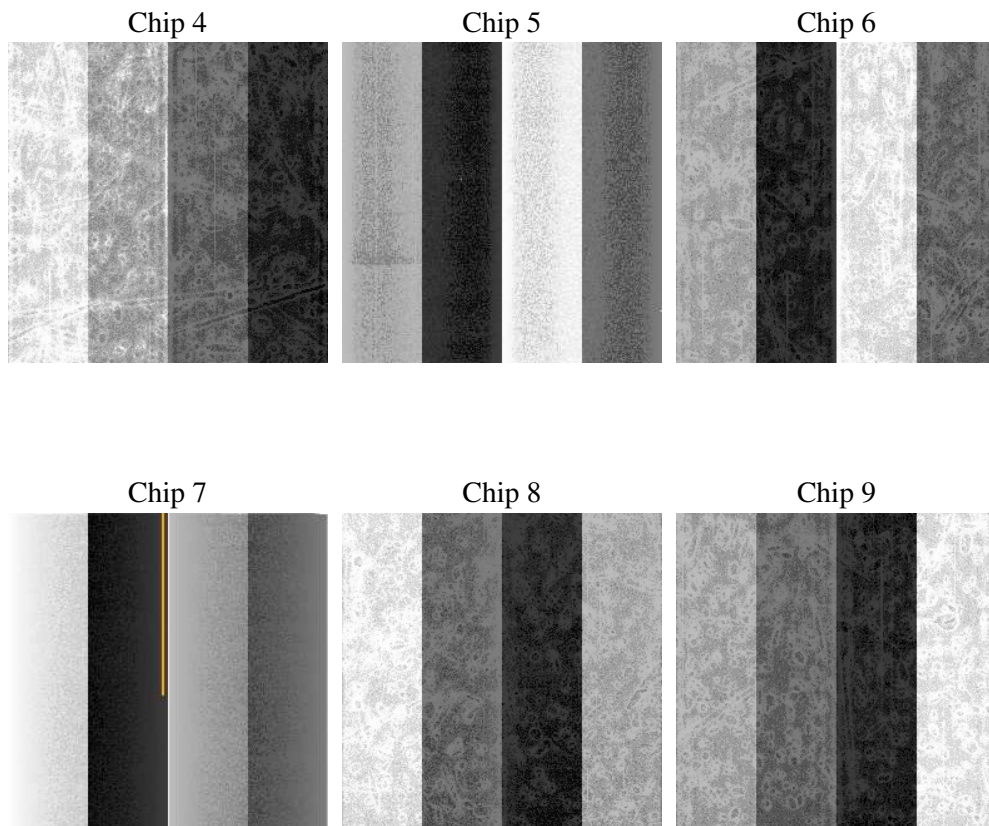
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-11-08T06:09:16
revision	2

sched_exp_time	167851.387000
ontime	167576.13100509
ontime4	167576.13099509
ontime5	167582.61296551
ontime6	167579.37198526
ontime7	167576.13100509
ontime8	167579.37196533
ontime9	167582.6129555
l1events	8150588

2.1.4 Events

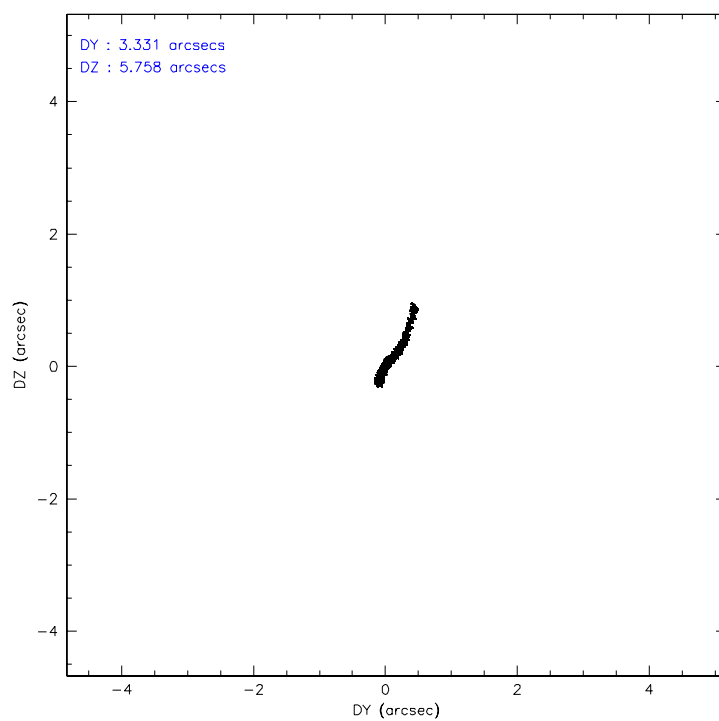
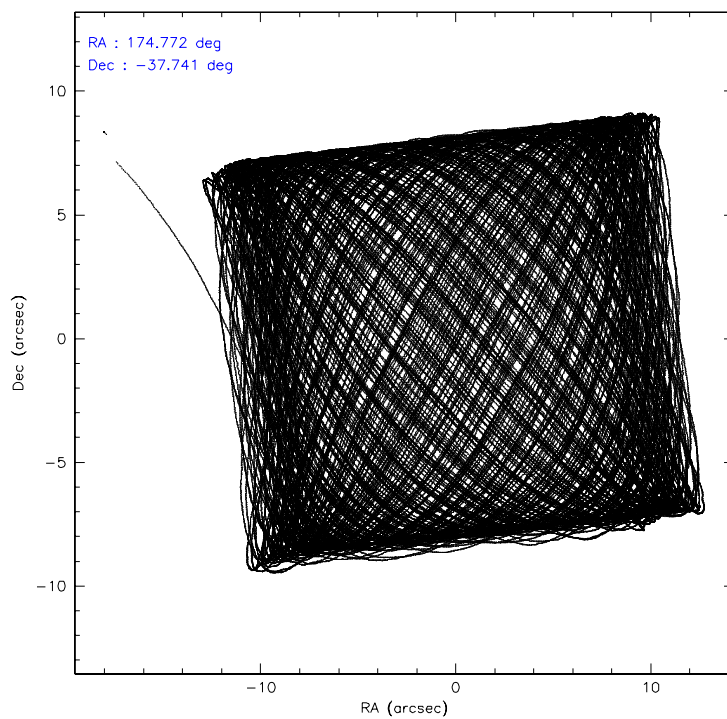
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	1245570	1575657	1197224	1553085	1443479	1135573
rejected events	1111333	879585	1004190	908886	1134619	996751
rejected %	89%	55%	83%	58%	78%	87%

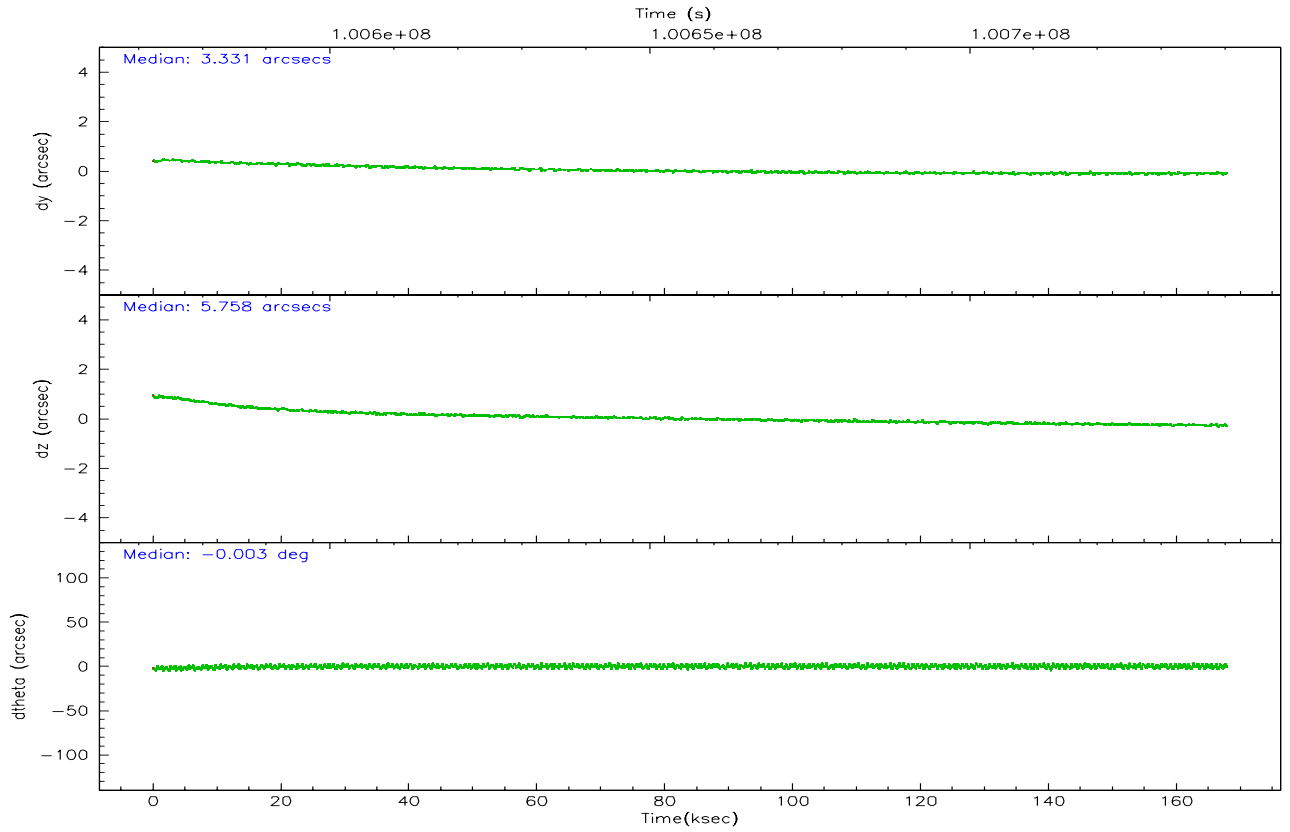
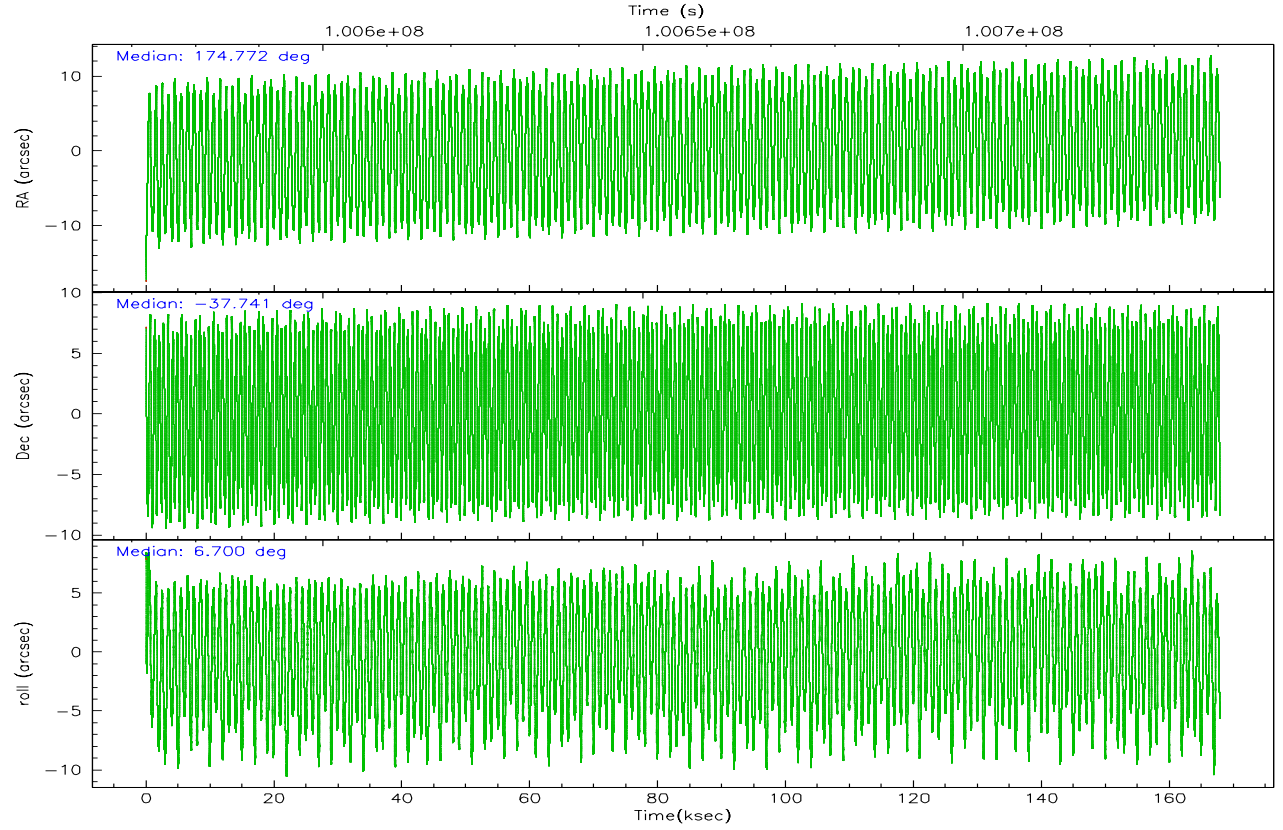
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	55207	59171	102393	46513	112095	60368
	4%	3%	8%	2%	7%	5%
grade 1 events	618	1065	768	1755	925	644
	0%	0%	0%	0%	0%	0%
grade 2 events	31805	214591	32833	157832	63263	26755
	2%	13%	2%	10%	4%	2%
grade 3 events	12379	16246	15153	37849	30554	13080
	0%	1%	1%	2%	2%	1%
grade 4 events	11954	15110	15210	36840	28653	12775
	0%	0%	1%	2%	1%	1%
grade 5 events	39666	75260	46772	101222	59383	47865
	3%	4%	3%	6%	4%	4%
grade 6 events	22896	390986	27452	365222	74316	25853
	1%	24%	2%	23%	5%	2%
grade 7 events	1071045	803228	956643	805852	1074290	94823
	85%	50%	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	174.744869	174.7723761155248	Subarray requested	NONE	NONE
Pointing Dec	-37.757137	-37.74061737043895	Alternating exposures requested	N	N
Pointing Roll	6.536761	6.710227499685161	Primary exposure time	0.000000	3.2
Window start time	100560941.184000	100560941.184000			
Window stop time	100870164.184000	100870164.184000			
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	100572430.184000	100571475.22753			
Observation start date	2001-03-10T00:46:06	2001-03-10T00:31:15			
Observation end time	100740282.184000	100740596.13406			
Observation end date	2001-03-11T23:23:38	2001-03-11T23:29:56			
Read mode	TIMED	TIMED			

2.3 Aspect



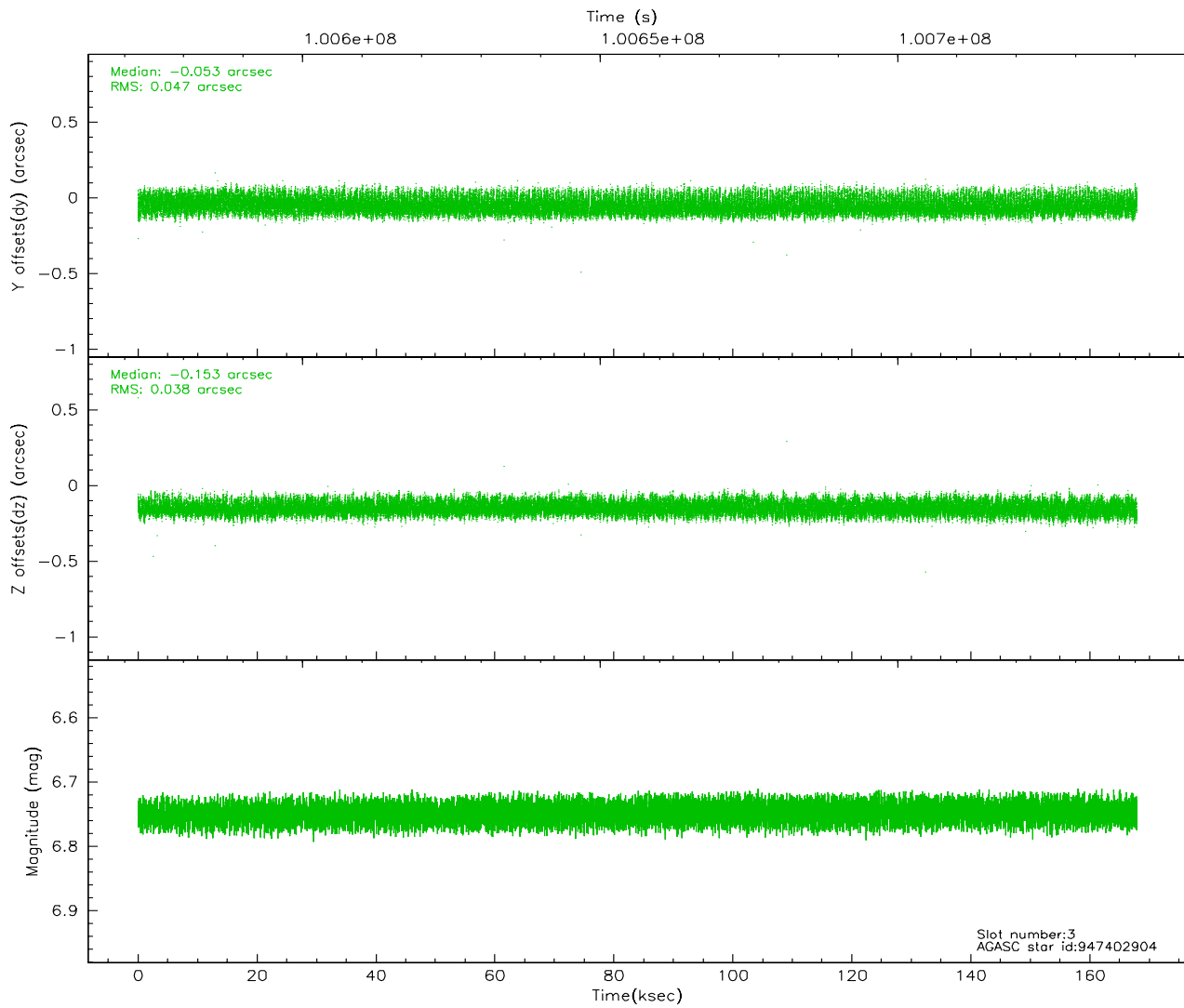
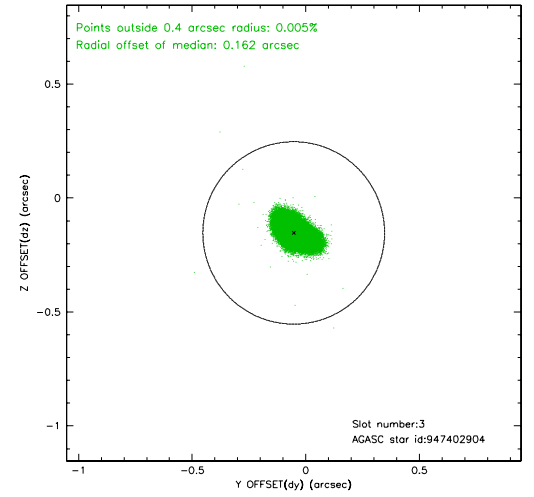
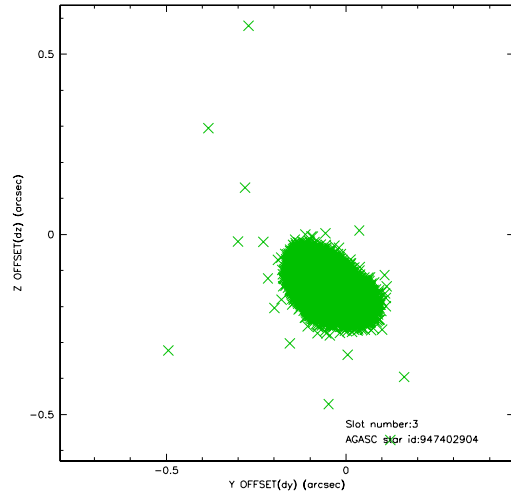


Slot Statistics

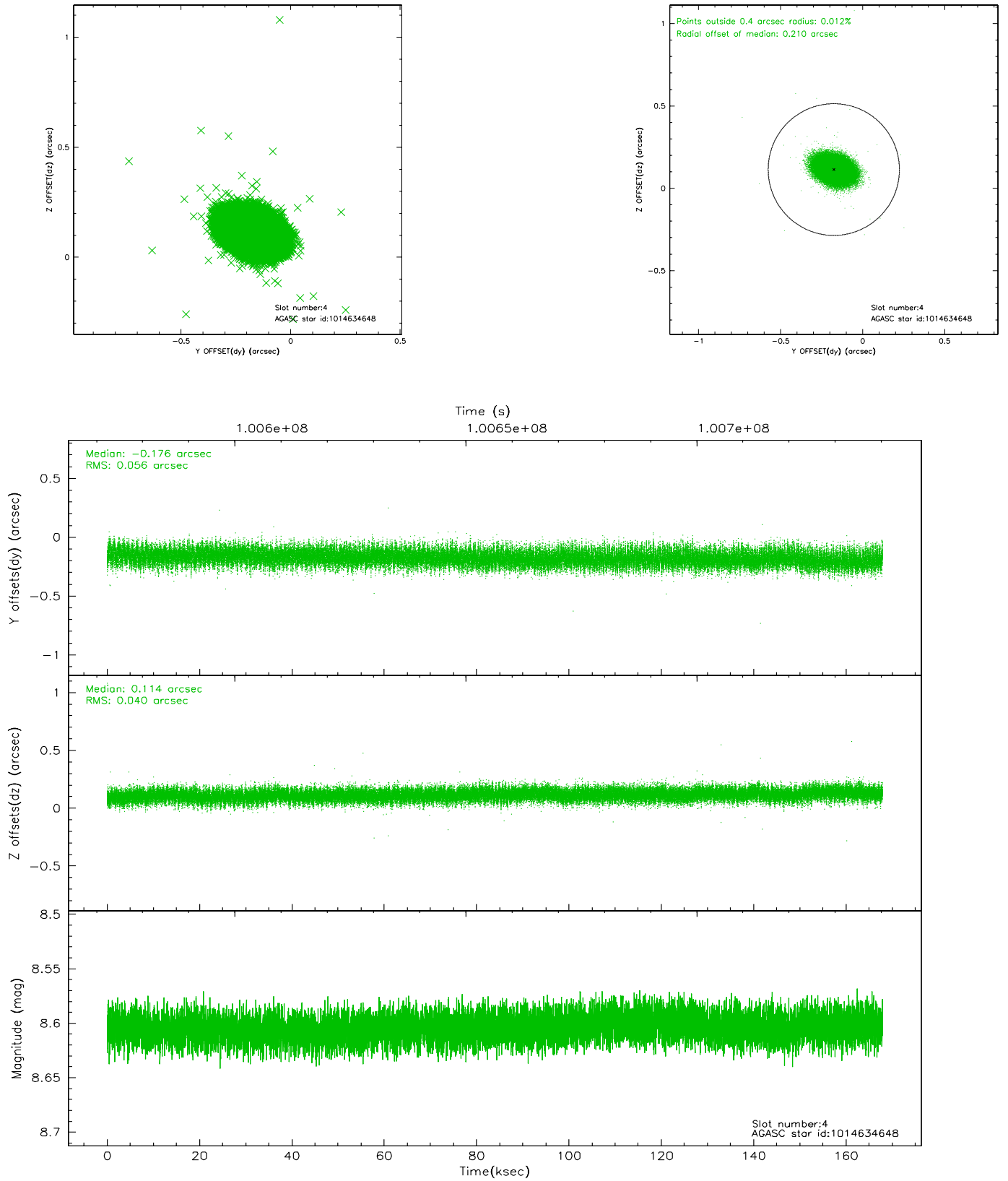
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	40965	-0.011	-0.031	0.015	0.031	0.000000	0.000000	-755.86	-1789.11
1	FID	ACIS-S-4	7.18	40961	-0.042	0.013	0.020	0.042	0.000000	0.000000	2157.46	119.50
2	FID	ACIS-S-5	7.24	40965	0.021	0.026	0.014	0.026	0.000000	0.000000	-1808.80	113.10
3	GUIDE	947402904	6.75	81934	-0.053	-0.153	0.065	0.104	174.169681	-37.237184	-1425.61	2041.93
4	GUIDE	1014634648	8.60	81912	-0.176	0.114	0.072	0.120	175.549100	-38.341947	2015.76	-2359.46
5	GUIDE	947388944	9.16	81899	0.129	-0.015	0.089	0.144	173.946026	-37.468256	-2150.34	1283.01
6	GUIDE	1014497968	10.01	81737	0.107	0.089	0.102	0.165	174.377296	-37.990619	-1131.62	-718.50
7	GUIDE	1014500968	9.13	81908	-0.011	-0.039	0.096	0.158	174.507622	-37.676700	-638.63	363.62

2.4 Star Slots

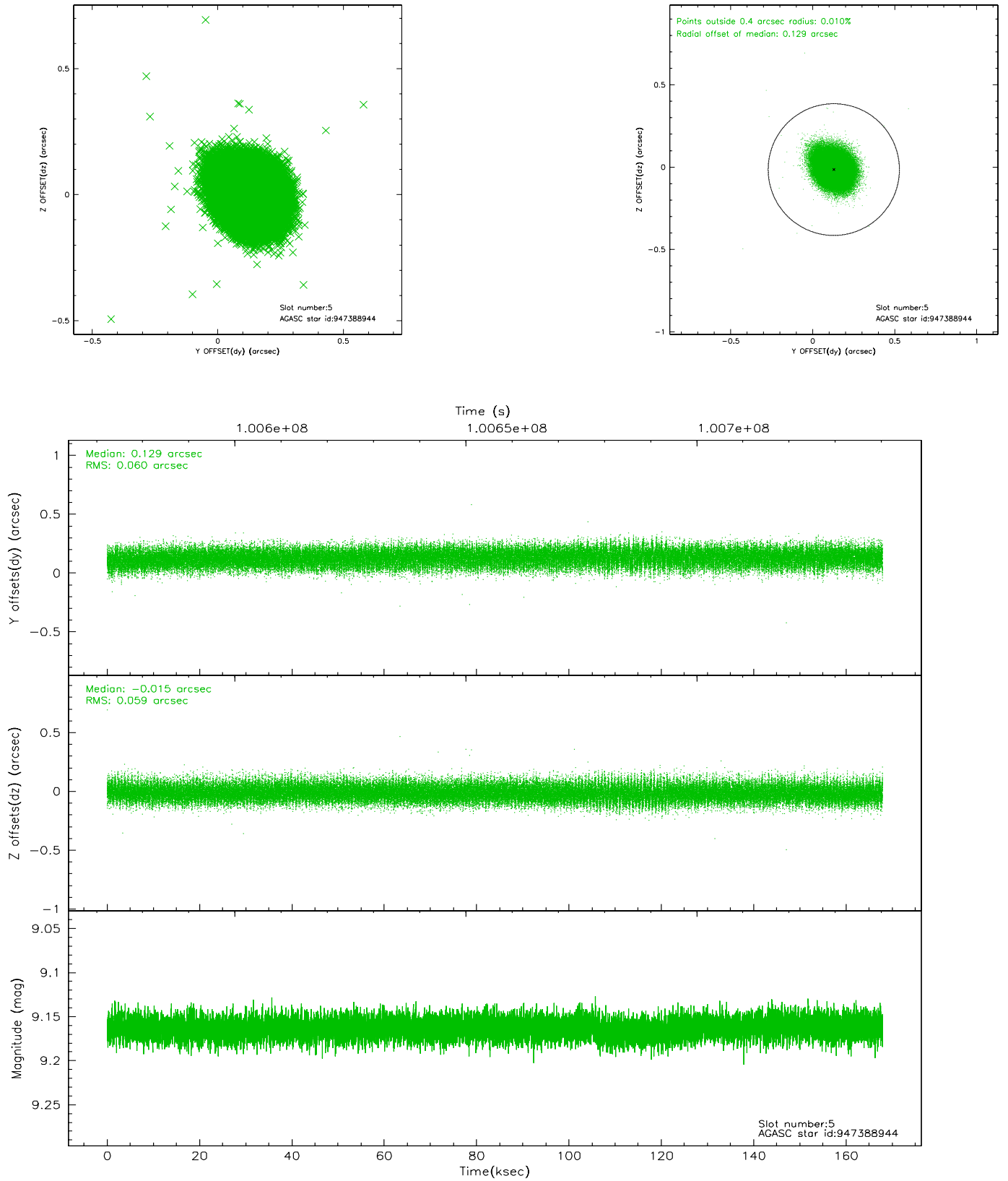
2.4.1 Slot 3



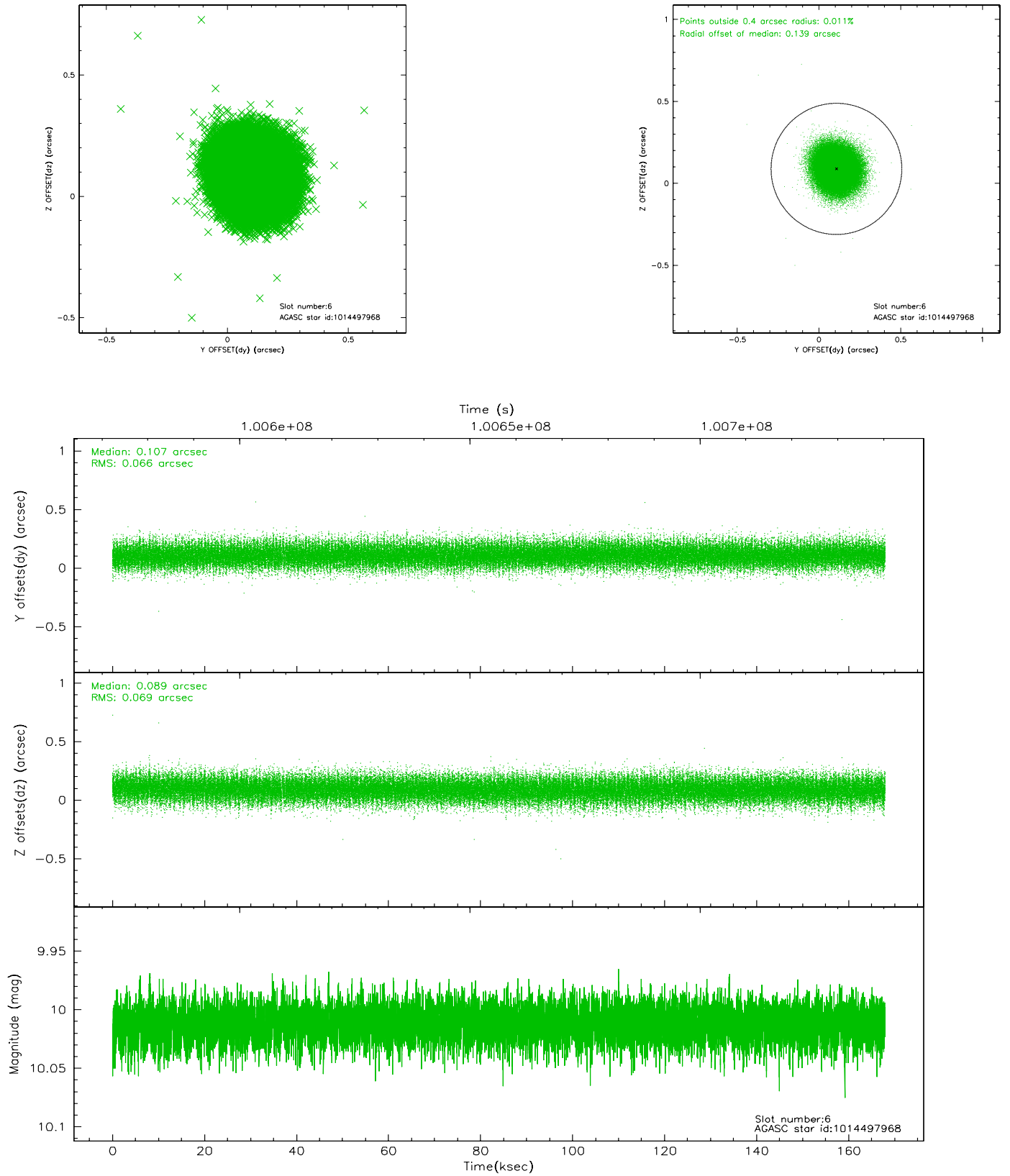
2.4.2 Slot 4



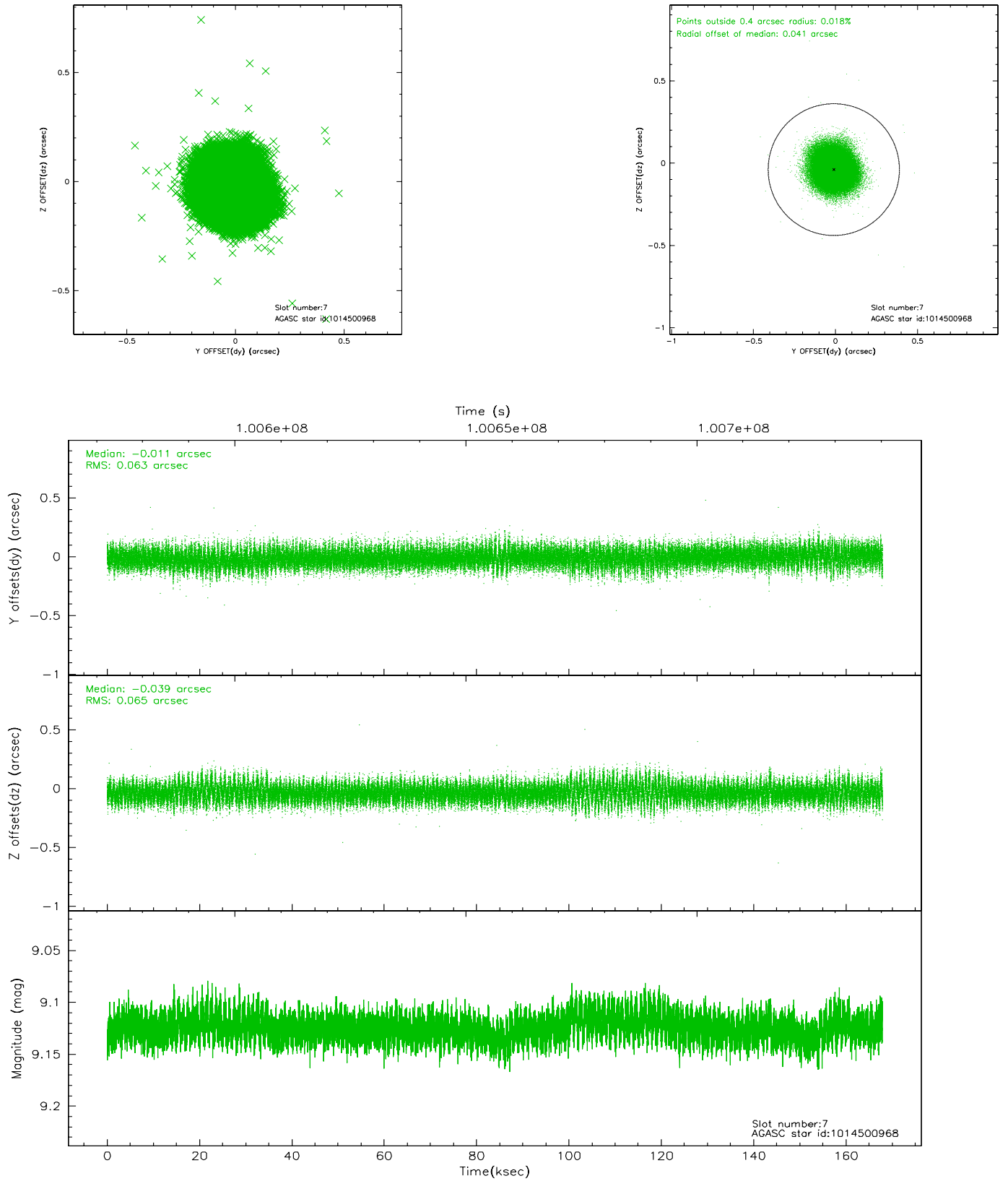
2.4.3 Slot 5



2.4.4 Slot 6

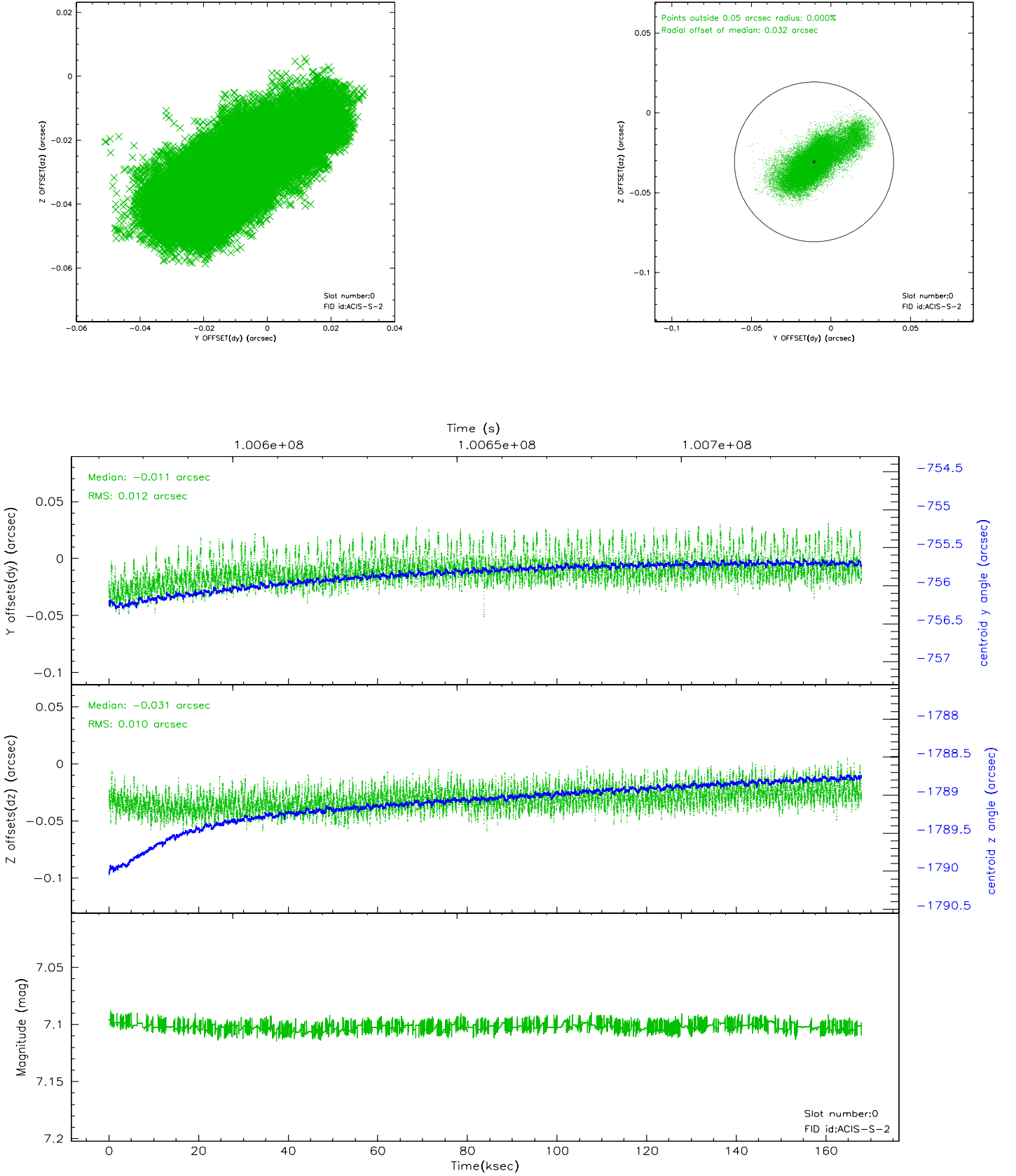


2.4.5 Slot 7

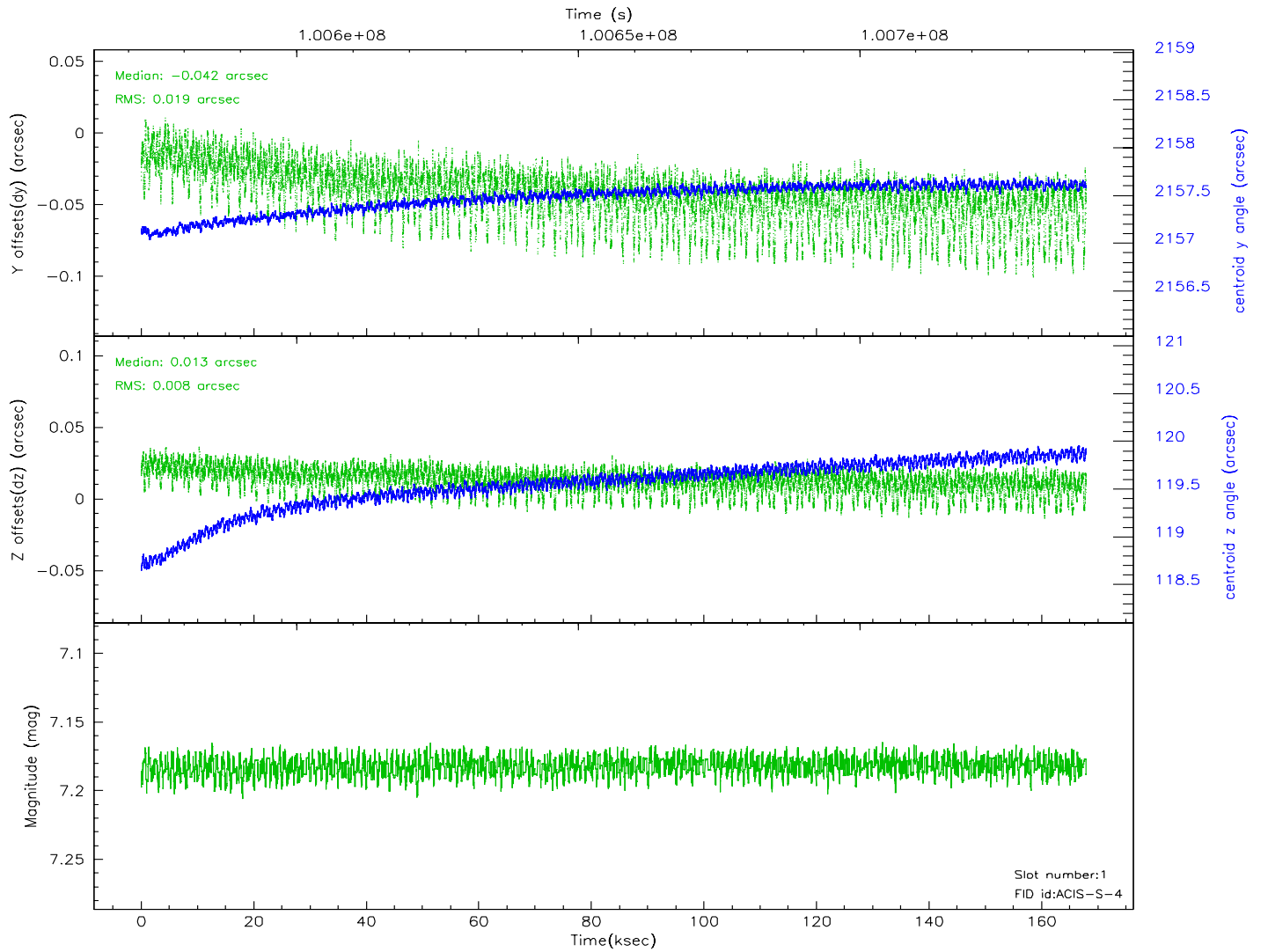
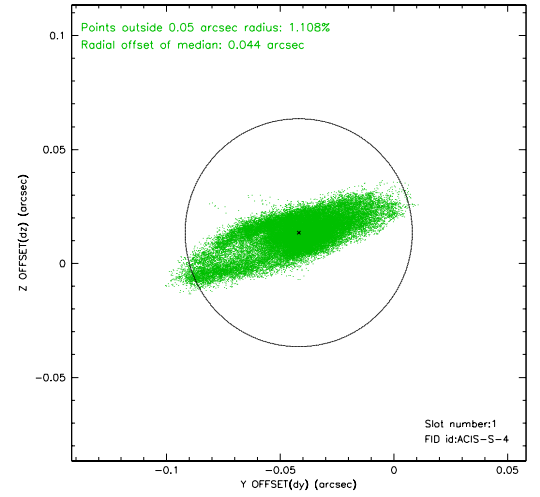
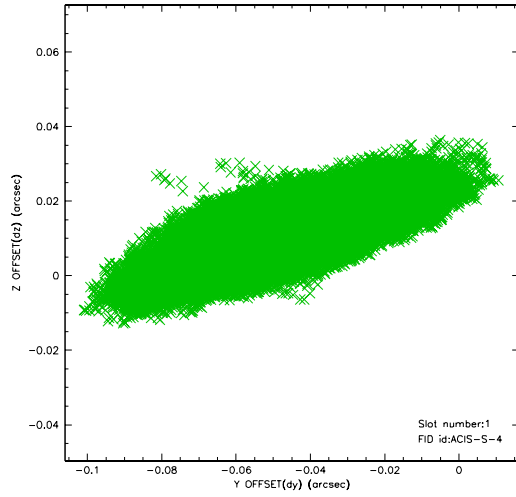


2.5 FID Slots

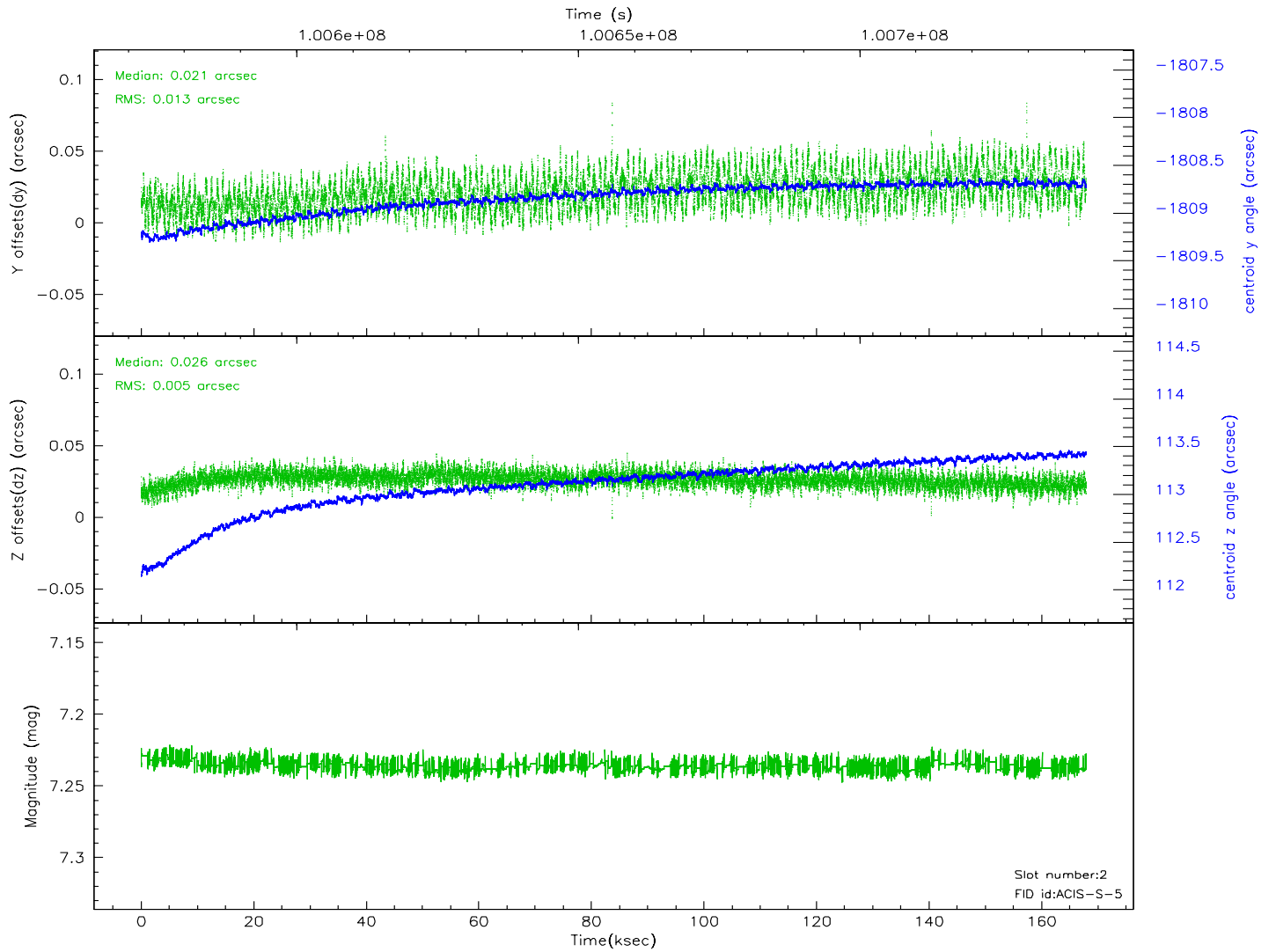
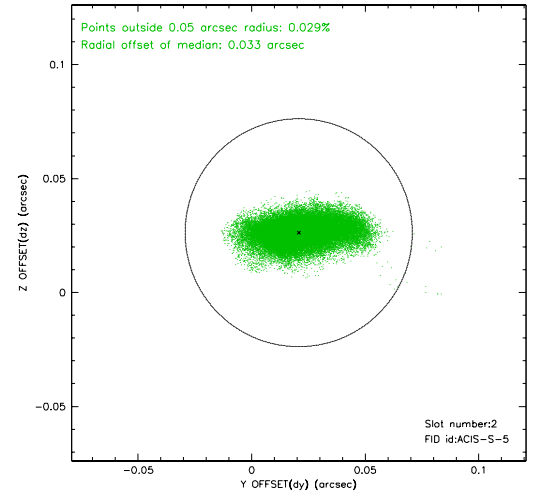
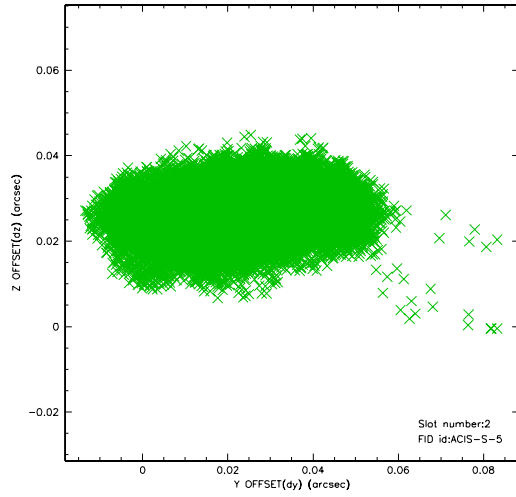
2.5.1 Slot 0



2.5.2 Slot 1

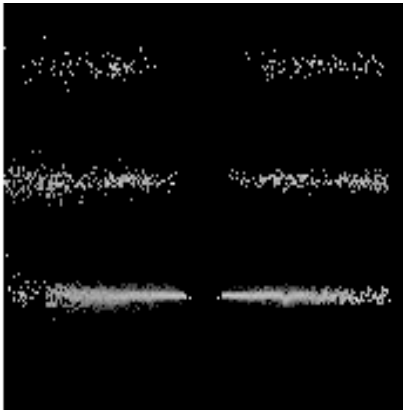


2.5.3 Slot 2

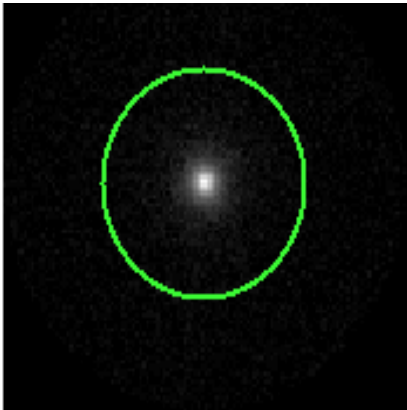


3 Gratings

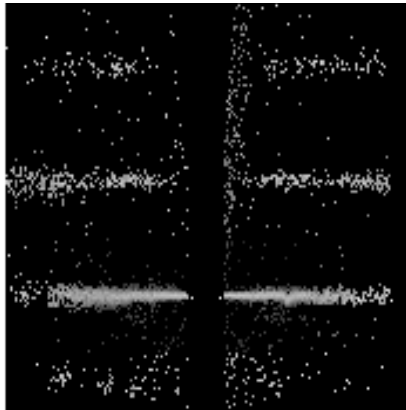
3.1 HEG Arm



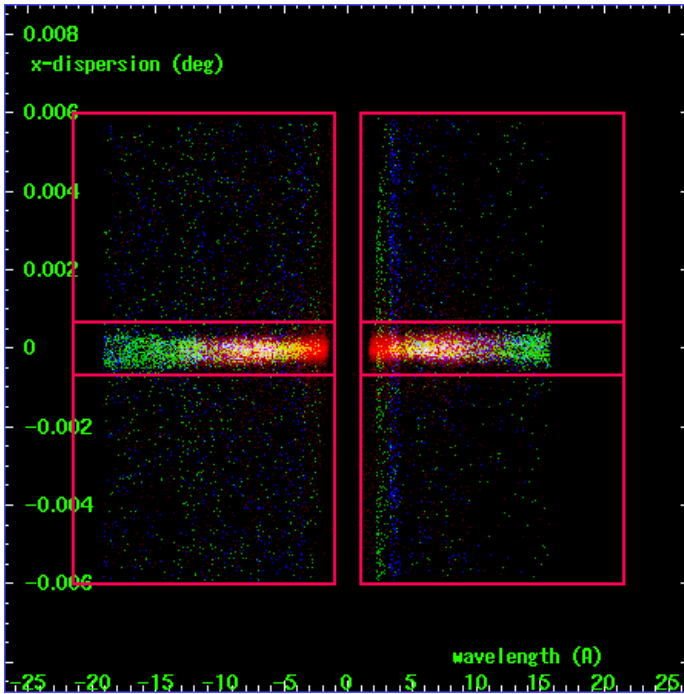
HEG Order Sort 123



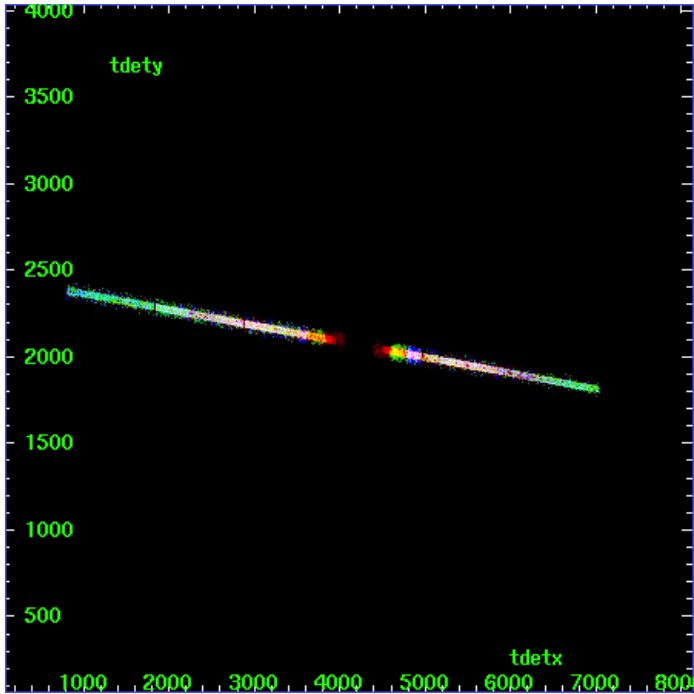
HEG Zero Order



HEG Order Sort ALL

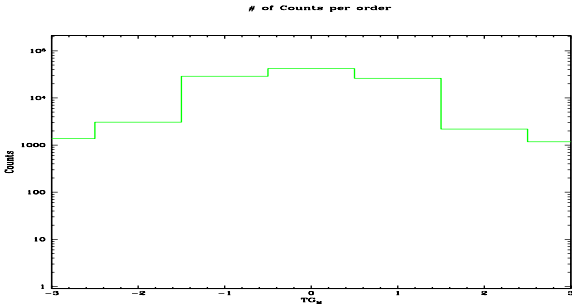


Spot Image HEG

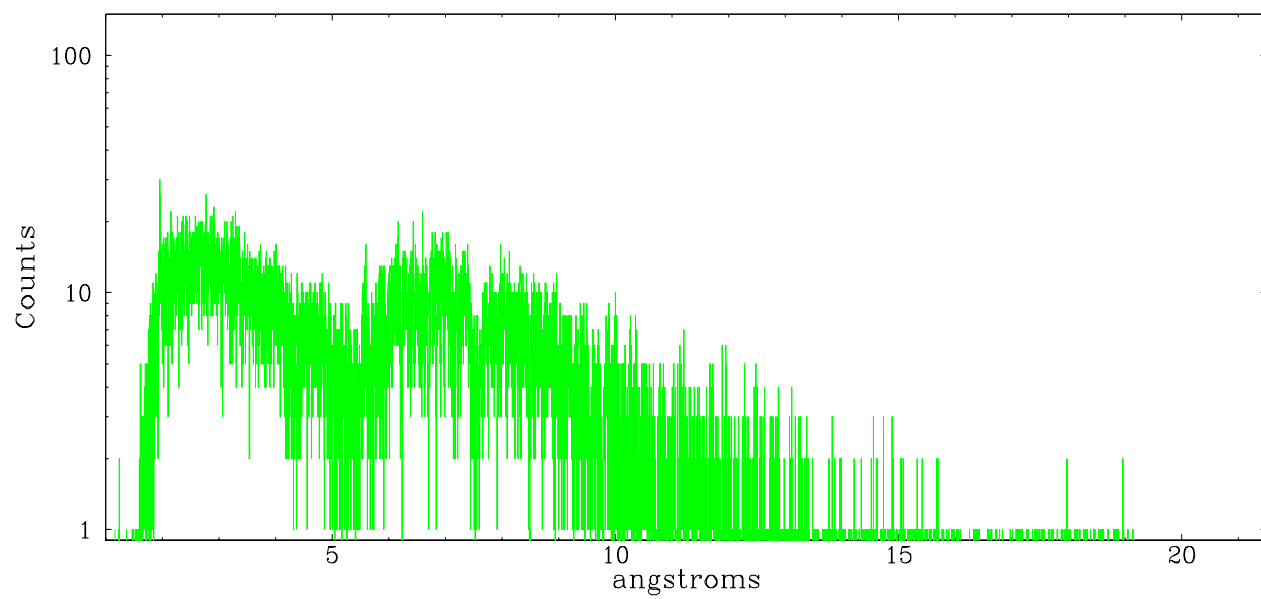


Full Detector HEG

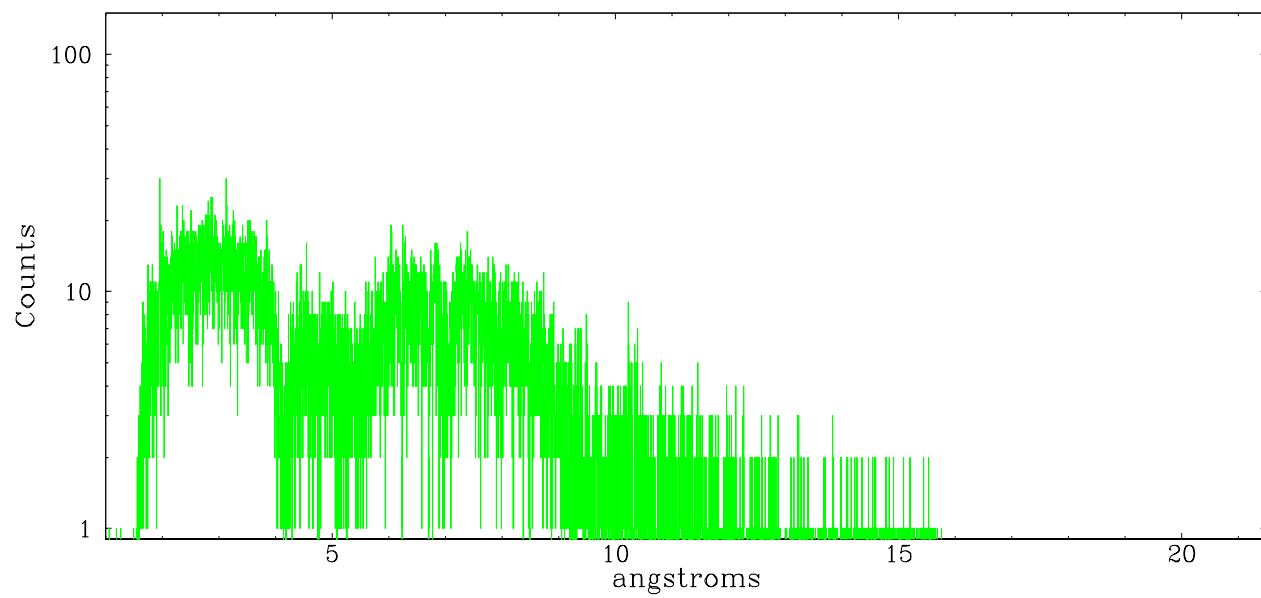
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1370	3053	28847	41964	26171	2186	1172



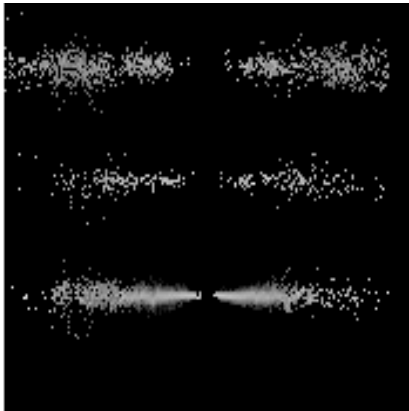
heg order -1



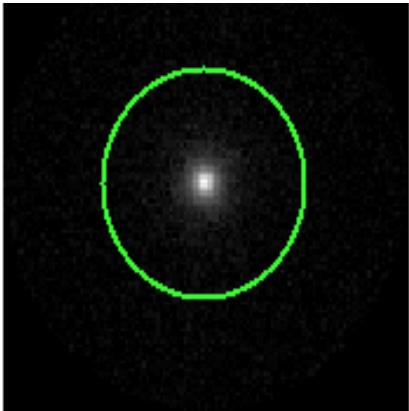
heg order +1



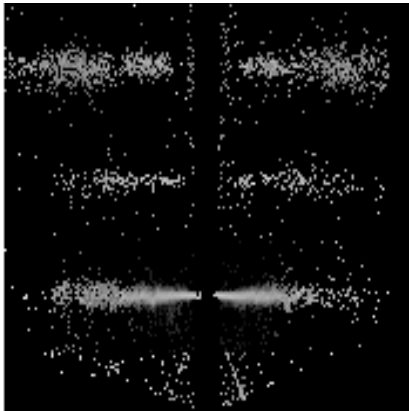
3.2 MEG Arm



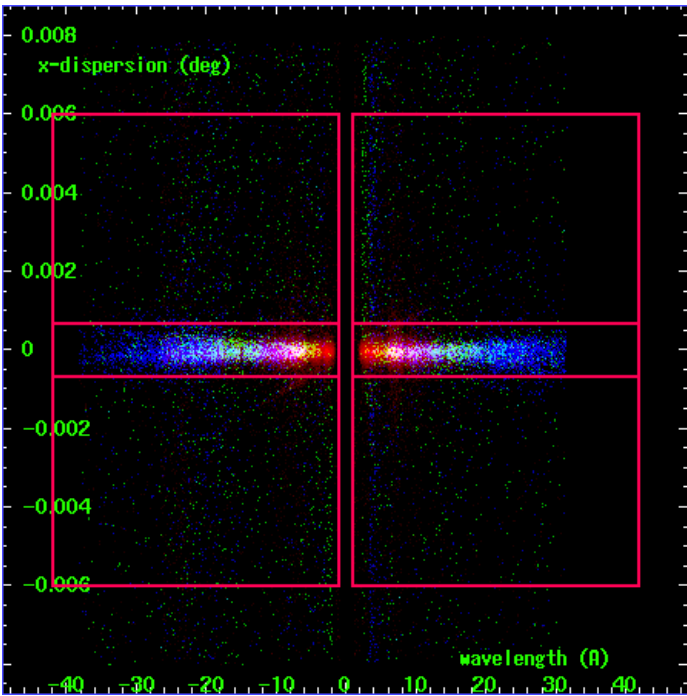
MEG Order Sort 123



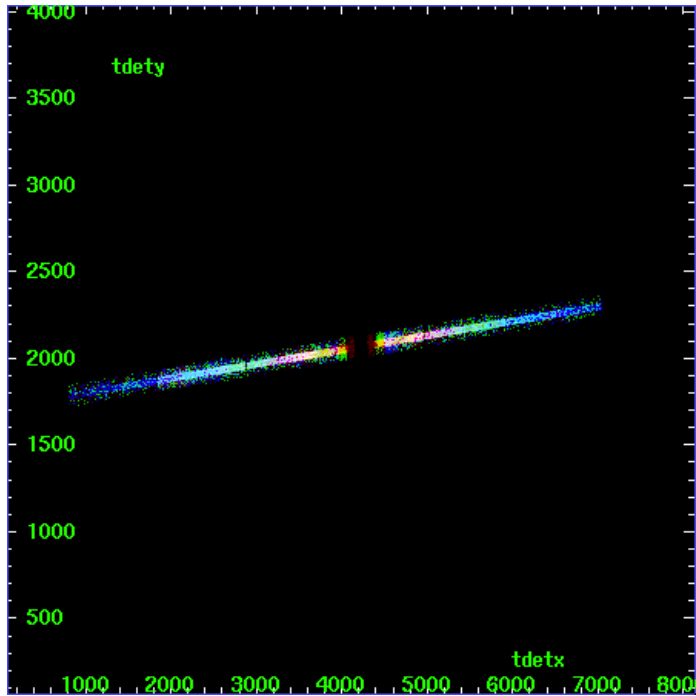
MEG Zero Order



MEG Order Sort ALL

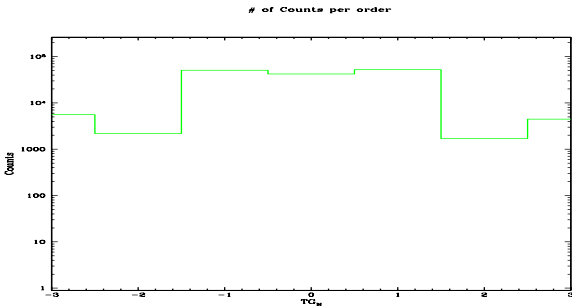


Spot Image MEG

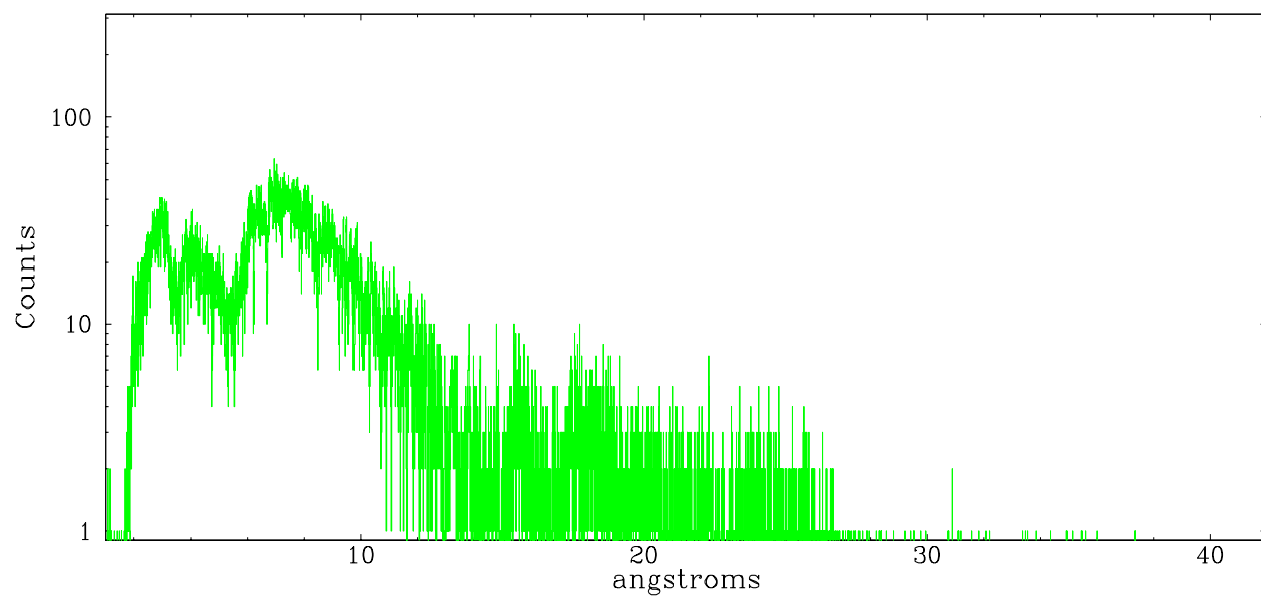


Full Detector MEG

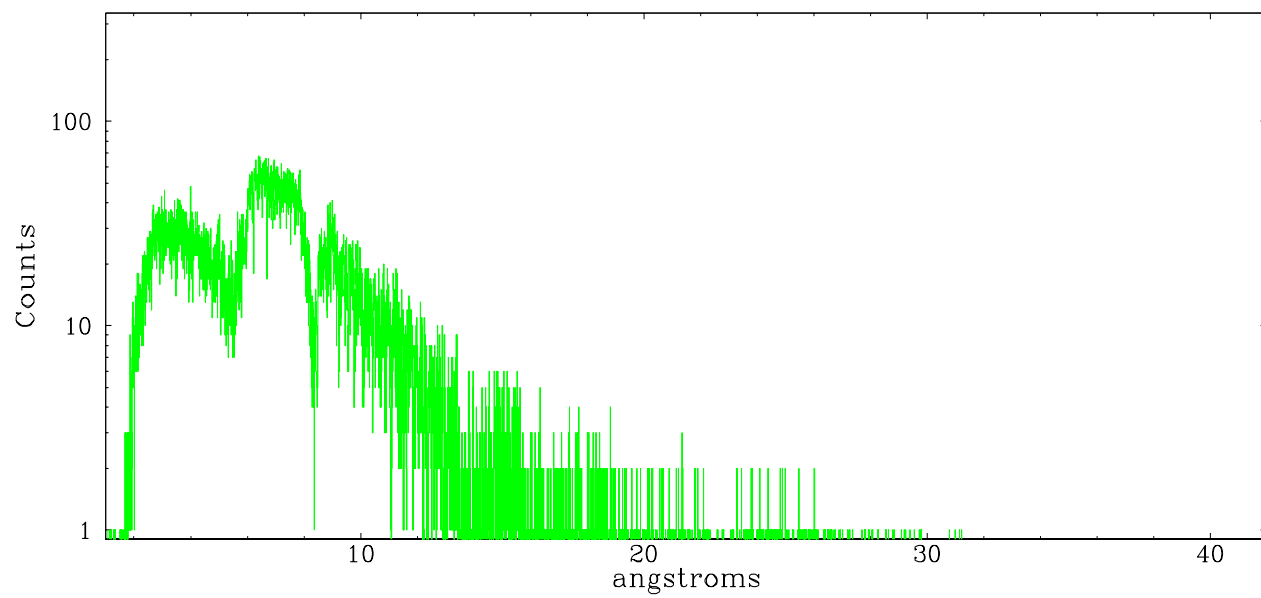
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	5557	2190	50548	41964	52196	1696	4472



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	167.574

A.2 Comments

Coordinated with HST, FUSE, RXTE, ground-based