

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3803 - L2 Version 001
Chandra X-Ray Center

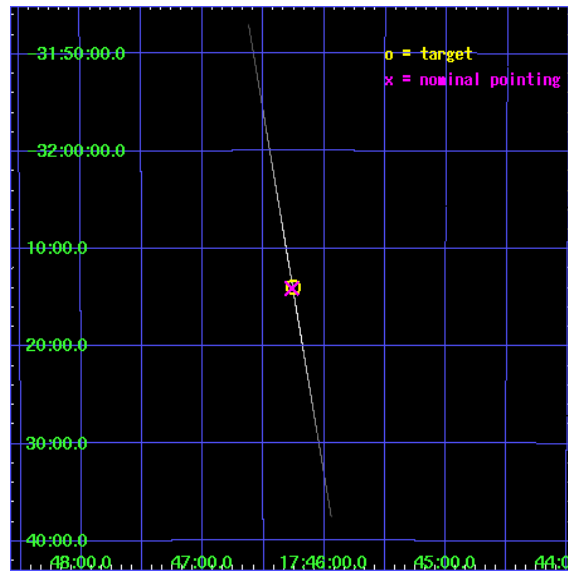
L2 Processing Date : Aug 2 2006

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1 Front

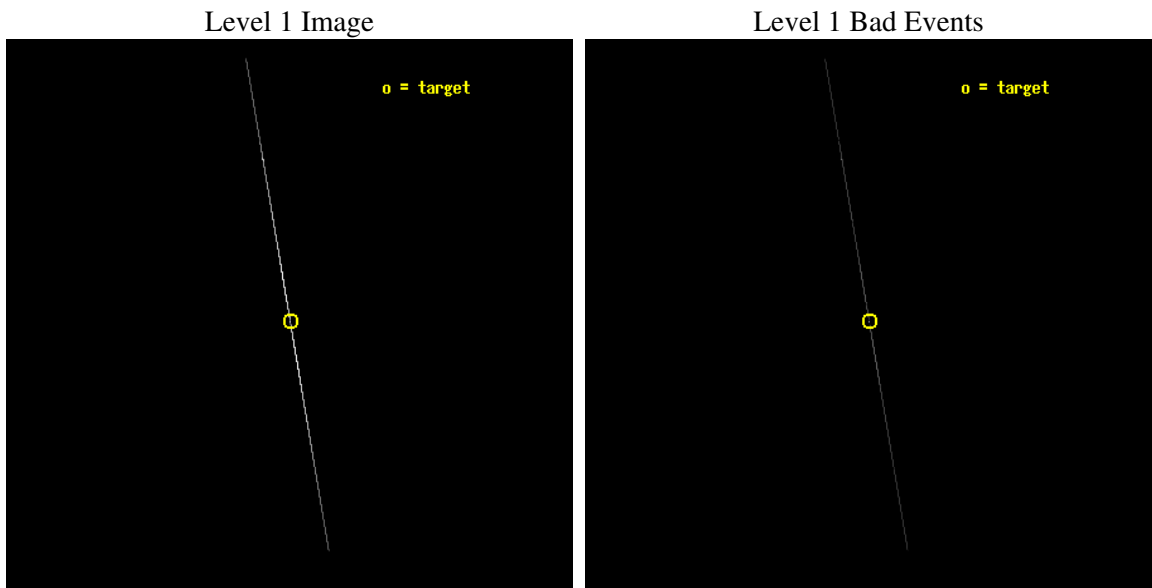
seq_num	400290
obs_id	3803
title	DIAGNOSING THE ACCRETION FLOW GEOMETRY OF A GALACTIC BLACK HOLE IN OUTBURST WITH CHANDRA
observer	Prof. Walter Lewin
object	H 1743-322
ra_targ	266.565033
dec_targ	-32.2335
ra_nom	266.5666699117
dec_nom	-32.235253883346
roll_nom	80.294416240489
revision	3
ontime	46716.262103558
livetime	46533.776704716
ontime4	48870.0
ontime5	48870.0
ontime6	48524.160108656
ontime7	46716.262103558
ontime8	48870.0
ontime9	48870.0
l2events	16367574



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.8
caldsver	3.2.2
date	2006-08-01T11:30:56
revision	2

sched_exp_time	48800.000000
ontime	48250.89569518
ontime4	50263.091877937
ontime5	50432.355236799
ontime6	49908.496342123
ontime7	48250.89569518
ontime8	50274.764340848
ontime9	50267.468029708
l1events	17946179

2.1.3 Events

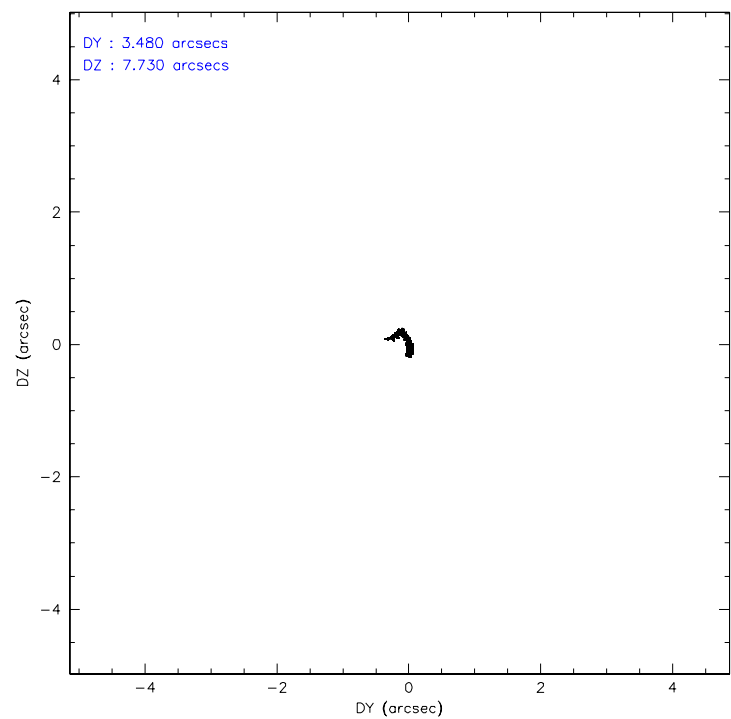
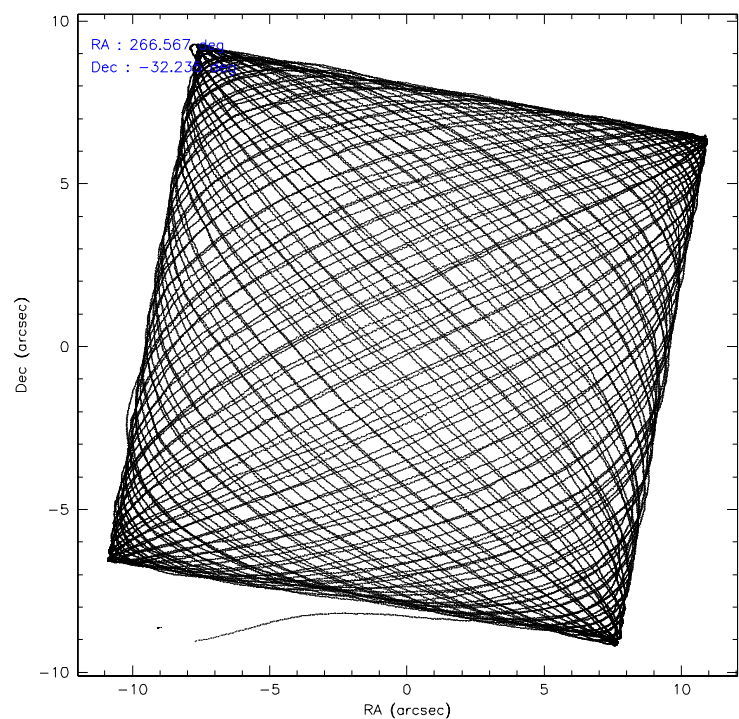
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	259985	1319972	6472840	7625943	1927548	339891
rejected events	51259	85350	118156	178188	76542	55462
rejected %	19%	6%	1%	2%	3%	16%

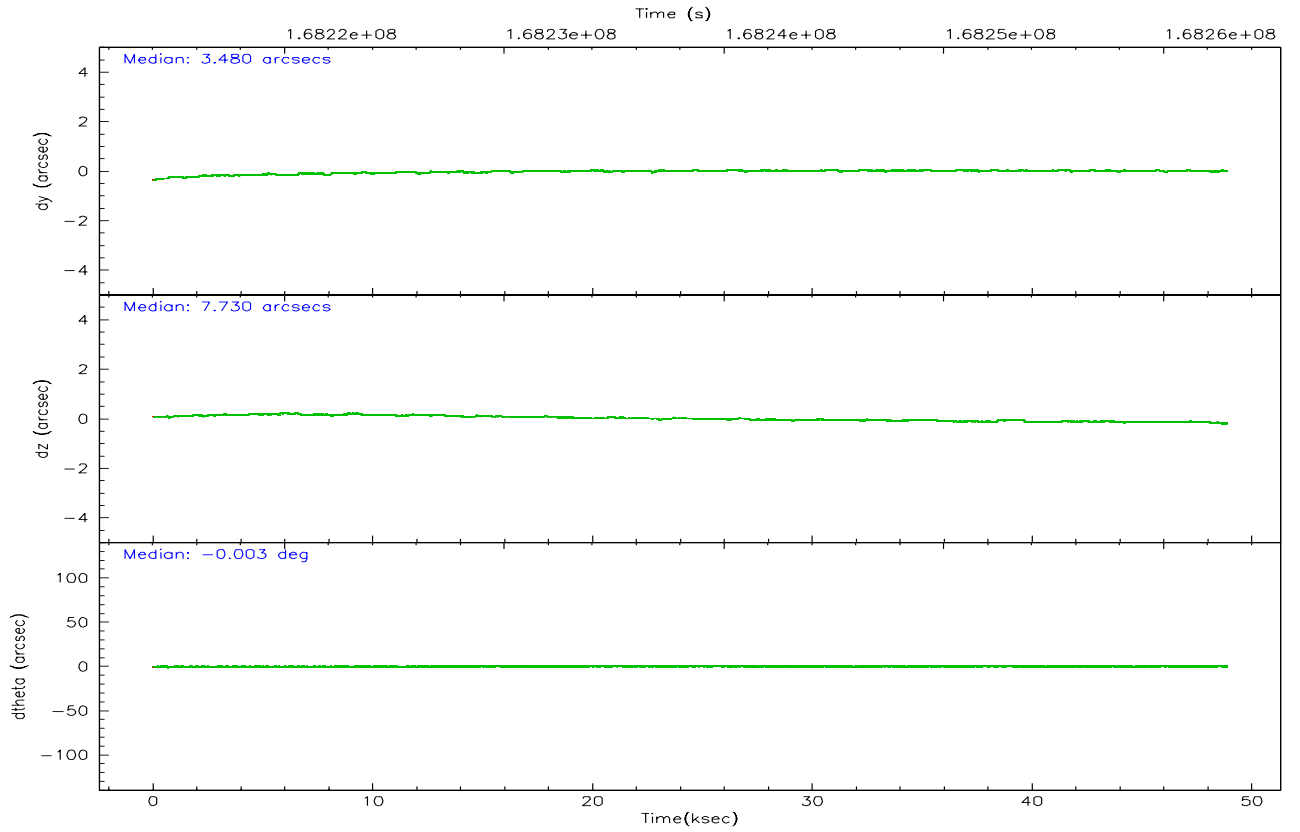
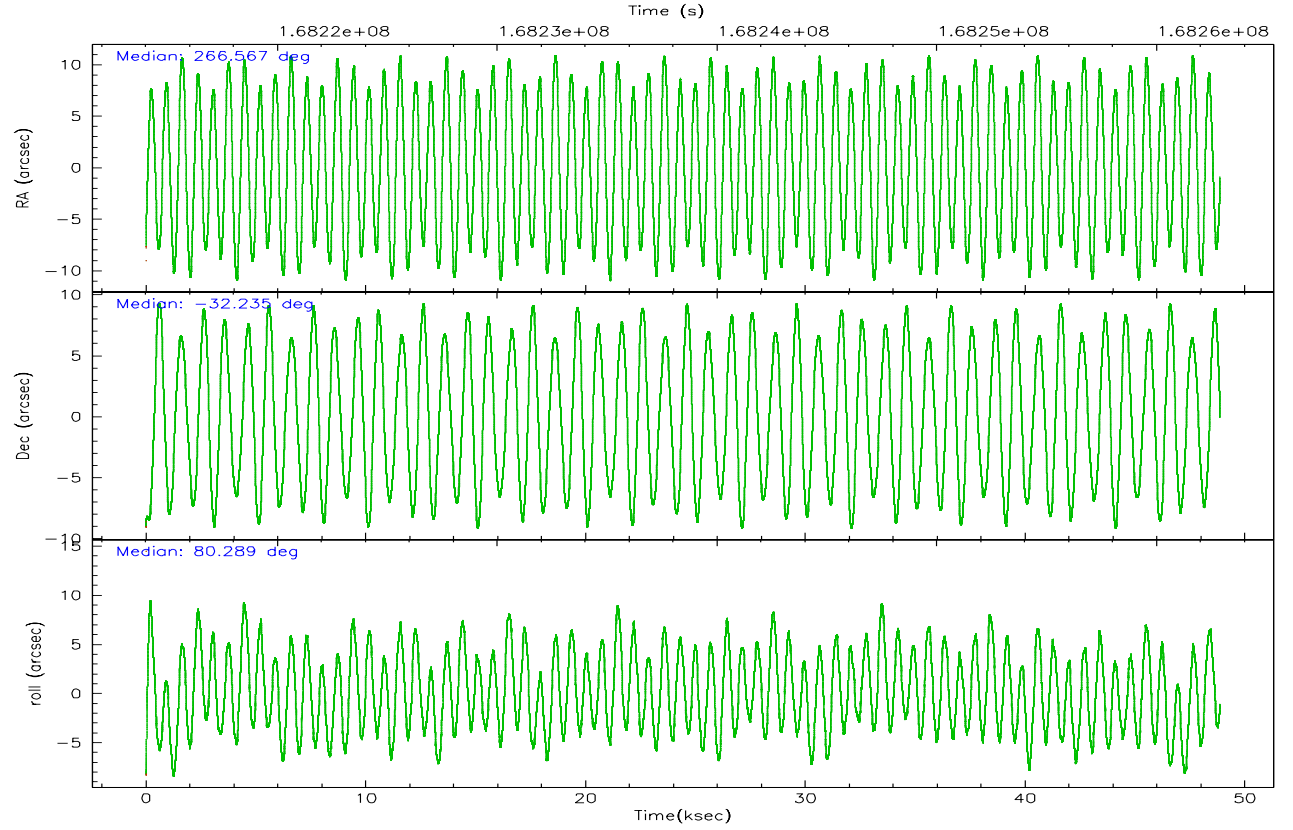
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	16705	277035	1496542	1281415	1074649	42580
	6%	20%	23%	16%	55%	12%
grade 1 events	209	493	5312	7832	3378	302
	0%	0%	0%	0%	0%	0%
grade 2 events	184260	519913	4192232	2174907	611208	227002
	70%	39%	64%	28%	31%	66%
grade 3 events	8062	51585	80940	715610	56505	8409
	3%	3%	1%	9%	2%	2%
grade 4 events	8205	50634	81276	708790	56985	8821
	3%	3%	1%	9%	2%	2%
grade 5 events	11265	35714	47202	100771	23679	13815
	4%	2%	0%	1%	1%	4%
grade 6 events	31279	384598	569336	2636618	101144	38962
	12%	29%	8%	34%	5%	11%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

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	CC33_GRADED	CC33_GRADED	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	266.578262	266.5666699117007	Alternating exposures requested	N	N
Pointing Dec	-32.260650	-32.23525388334647	Primary exposure time	0.000000	0
Pointing Roll	80.143977	80.29441624048853			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.632523	-182.6373491900168			
SIM translation stage offset (mm)	-7.5	-7.495173392990978			
Observation start time	168214095.184000	168212463.60667			
Observation start date	2003-05-01T22:07:11	2003-05-01T21:41:03			
Observation end time	168262895.184000	168263840.19635			
Observation end date	2003-05-02T11:40:31	2003-05-02T11:57:20			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



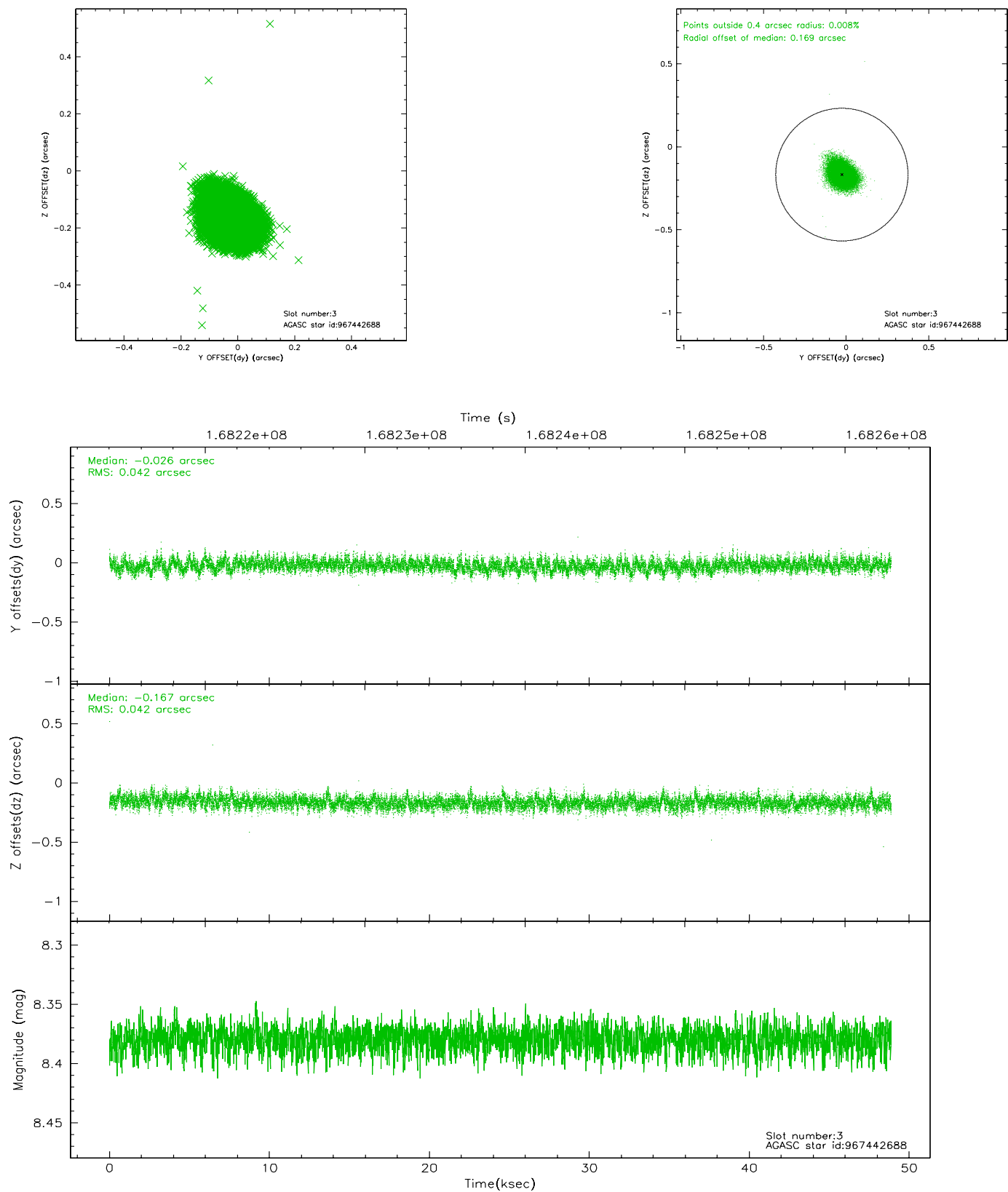


Slot Statistics

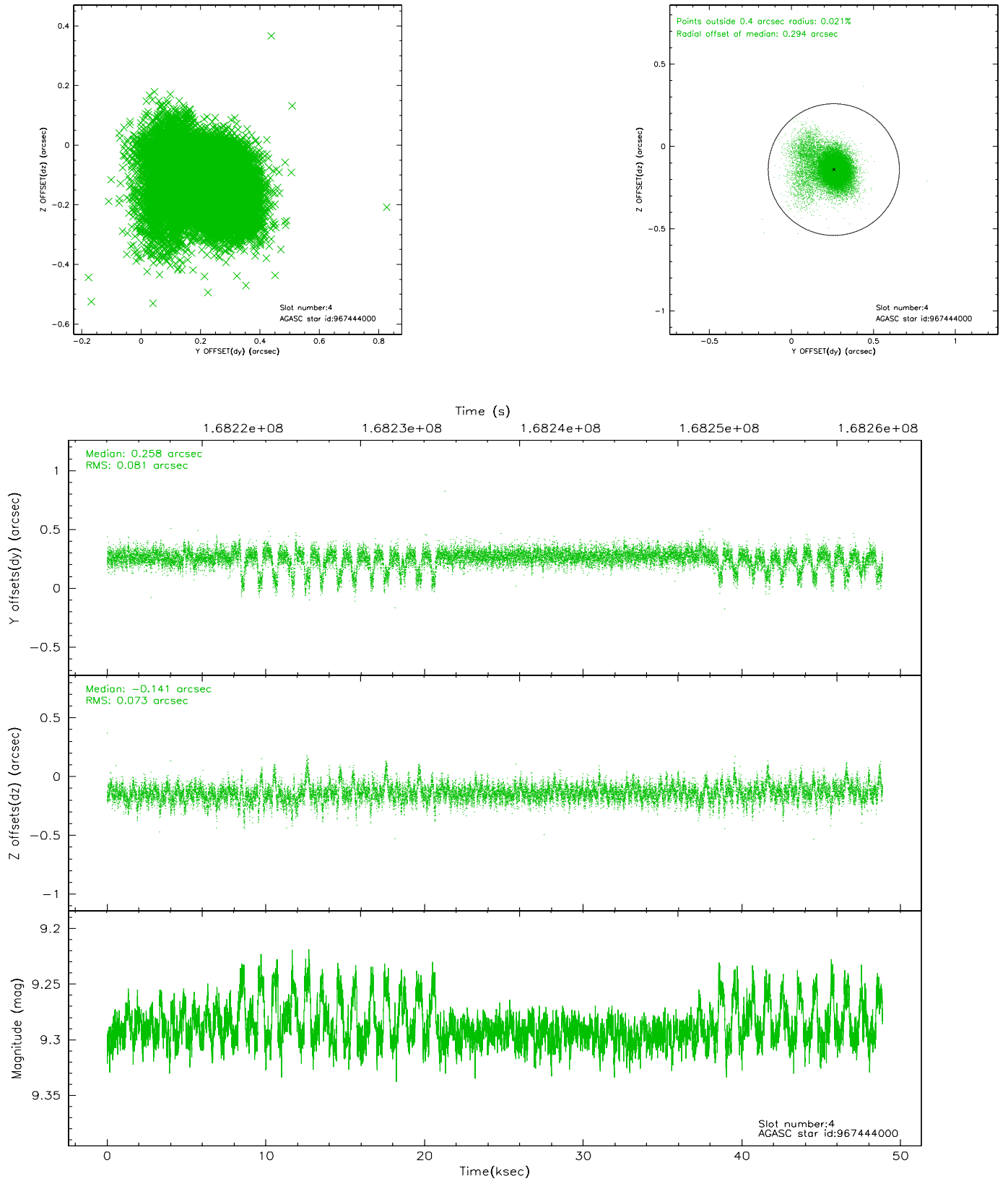
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	11920	-0.029	-0.084	0.009	0.019	0.000000	0.000000	-755.64	-1883.42
1	FID	ACIS-S-4	7.18	11920	-0.027	0.036	0.007	0.025	0.000000	0.000000	2157.69	25.10
2	FID	ACIS-S-5	7.23	11921	0.024	0.057	0.008	0.019	0.000000	0.000000	-1808.41	18.87
3	GUIDE	967442688	8.38	23837	-0.026	-0.167	0.062	0.102	266.096113	-32.373763	-655.39	1373.91
4	GUIDE	967444000	9.29	23806	0.258	-0.141	0.100	0.224	266.327670	-32.824762	-2131.14	398.96
5	GUIDE	966927176	8.99	23831	-0.169	-0.252	0.085	0.134	265.946853	-31.673679	1744.94	2266.78
6	GUIDE	967447616	9.28	23825	0.058	0.321	0.110	0.176	267.260141	-32.889782	-1884.67	-2419.46
7	GUIDE	967451816	9.28	23827	-0.109	0.235	0.099	0.169	267.266669	-31.901374	1627.86	-1852.38

2.4 Star Slots

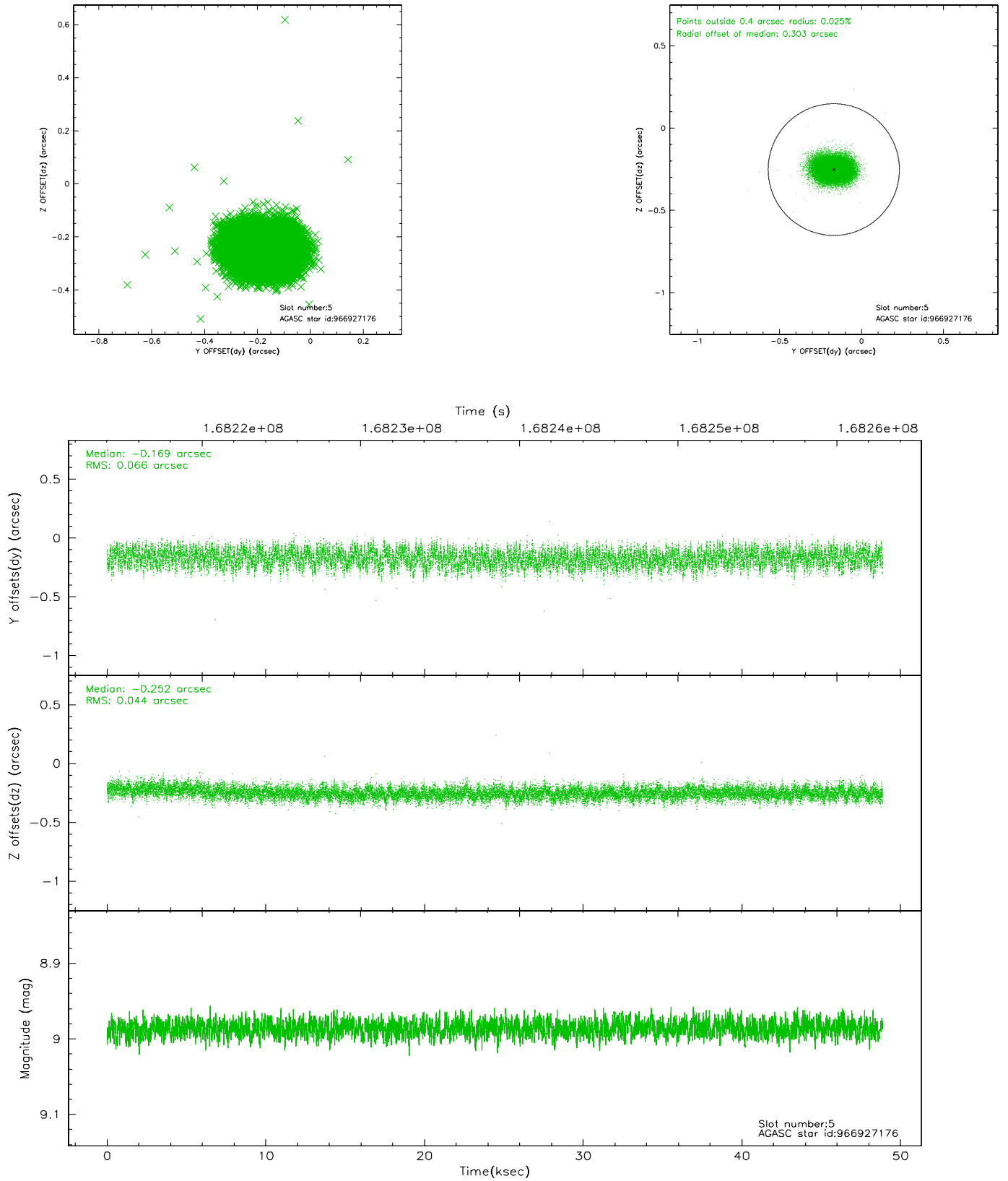
2.4.1 Slot 3



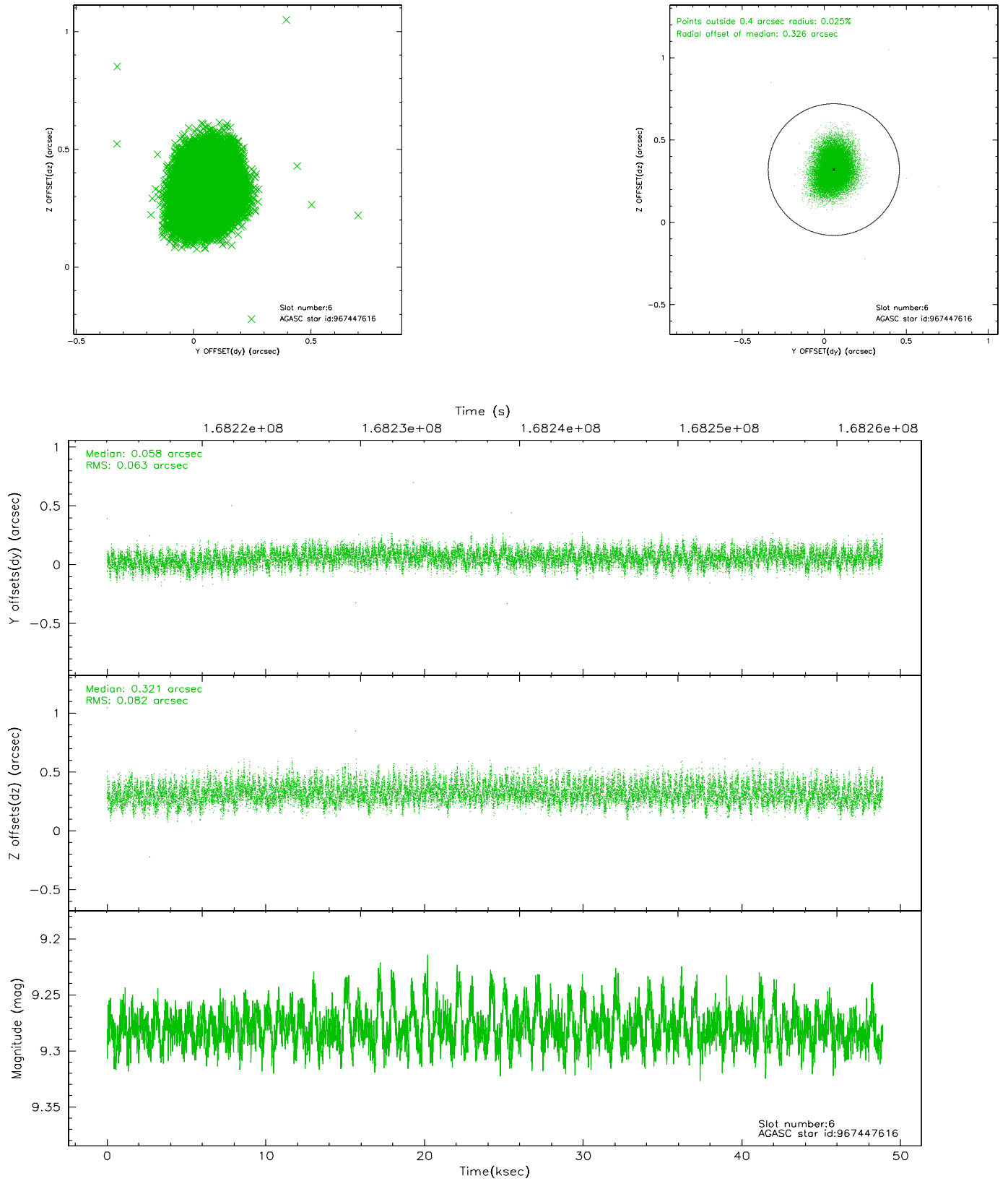
2.4.2 Slot 4



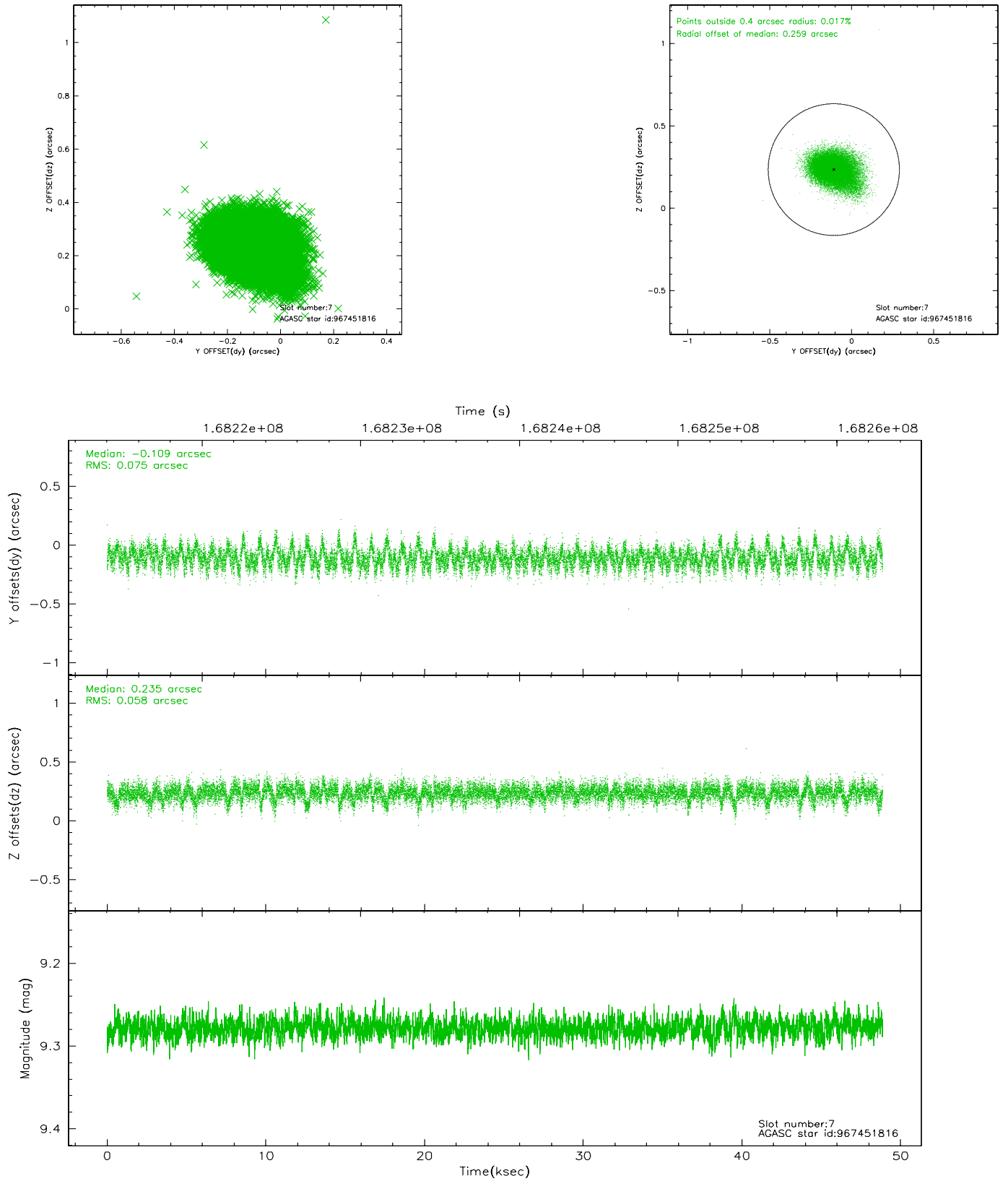
2.4.3 Slot 5



2.4.4 Slot 6

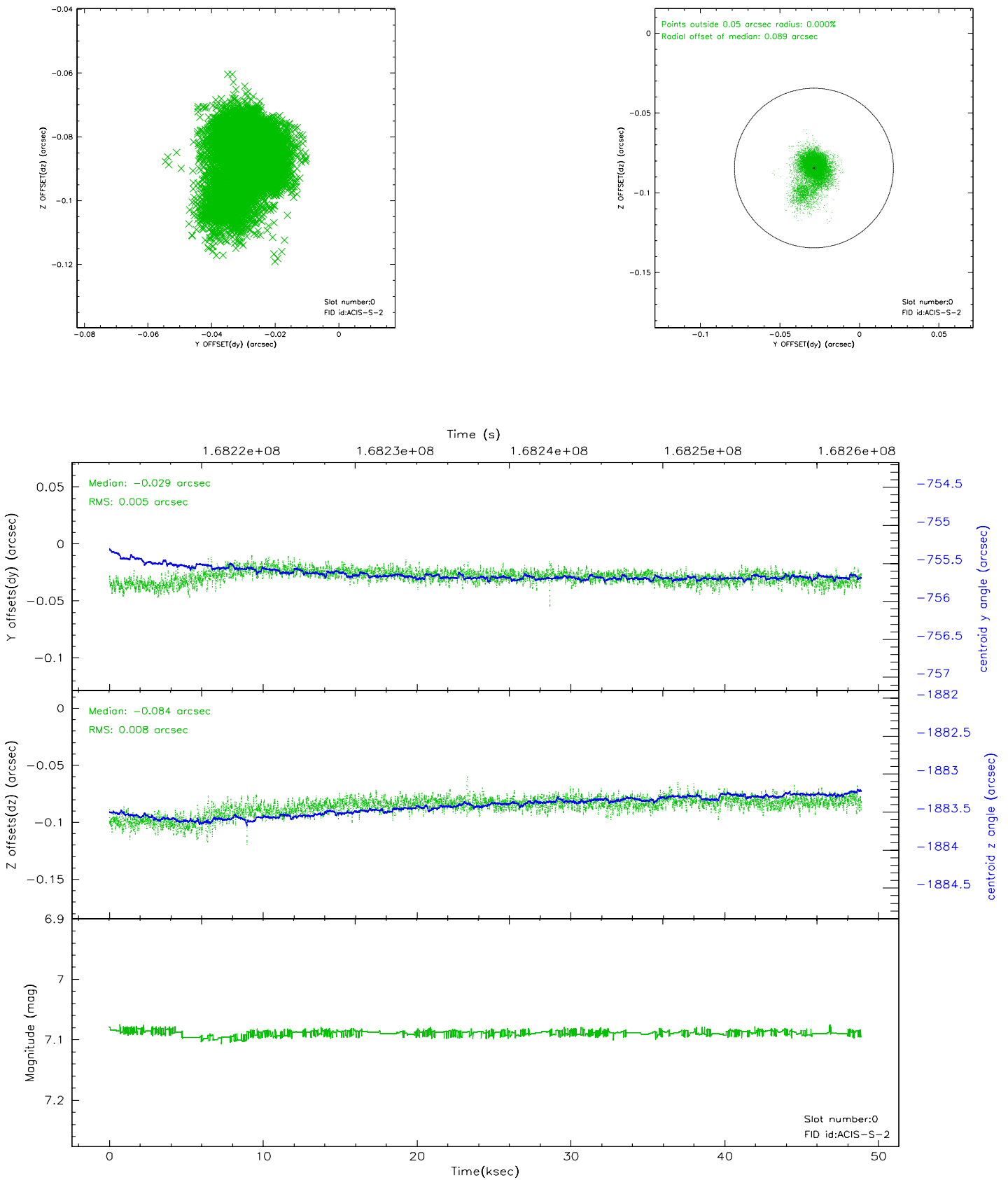


2.4.5 Slot 7

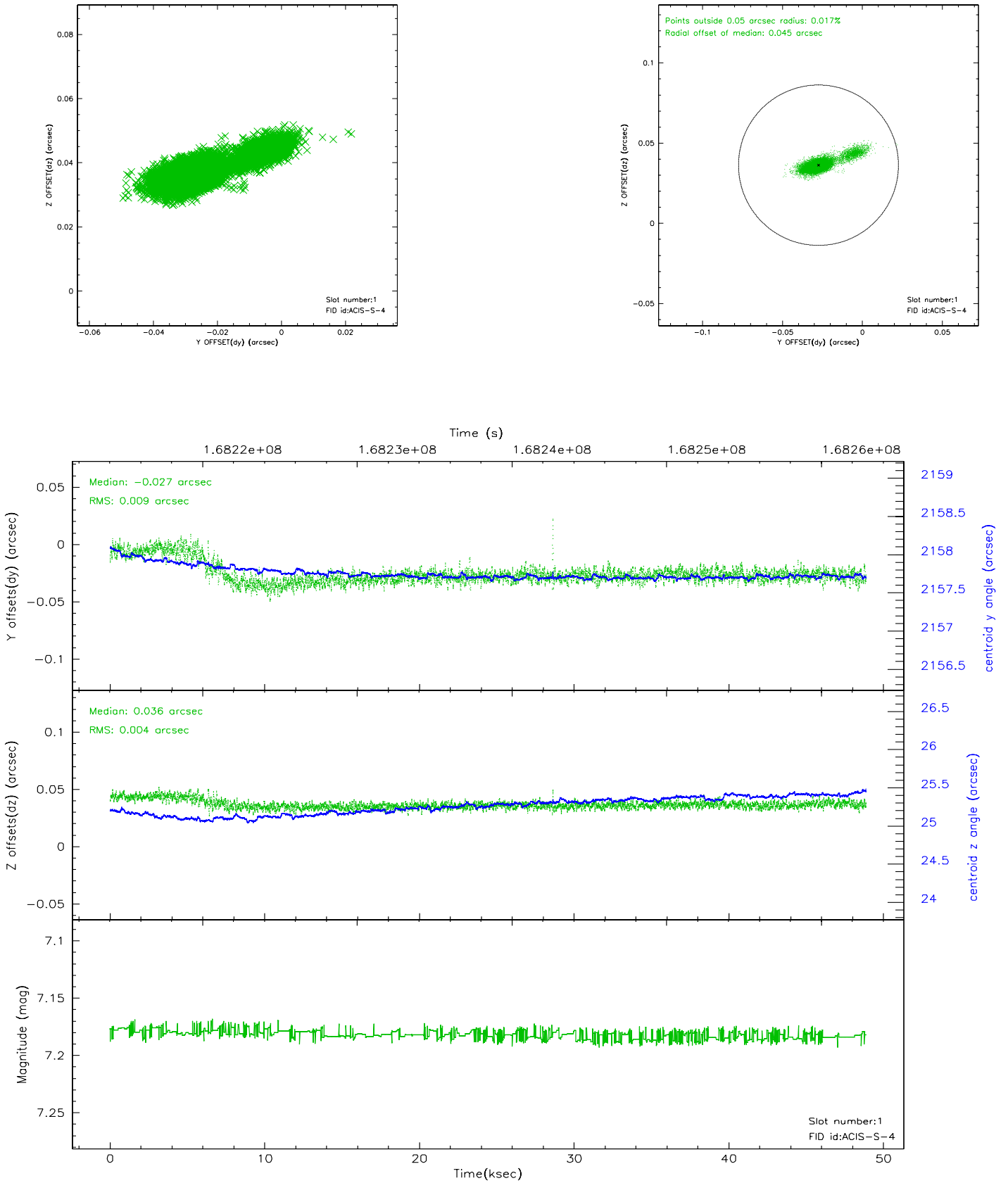


2.5 FID Slots

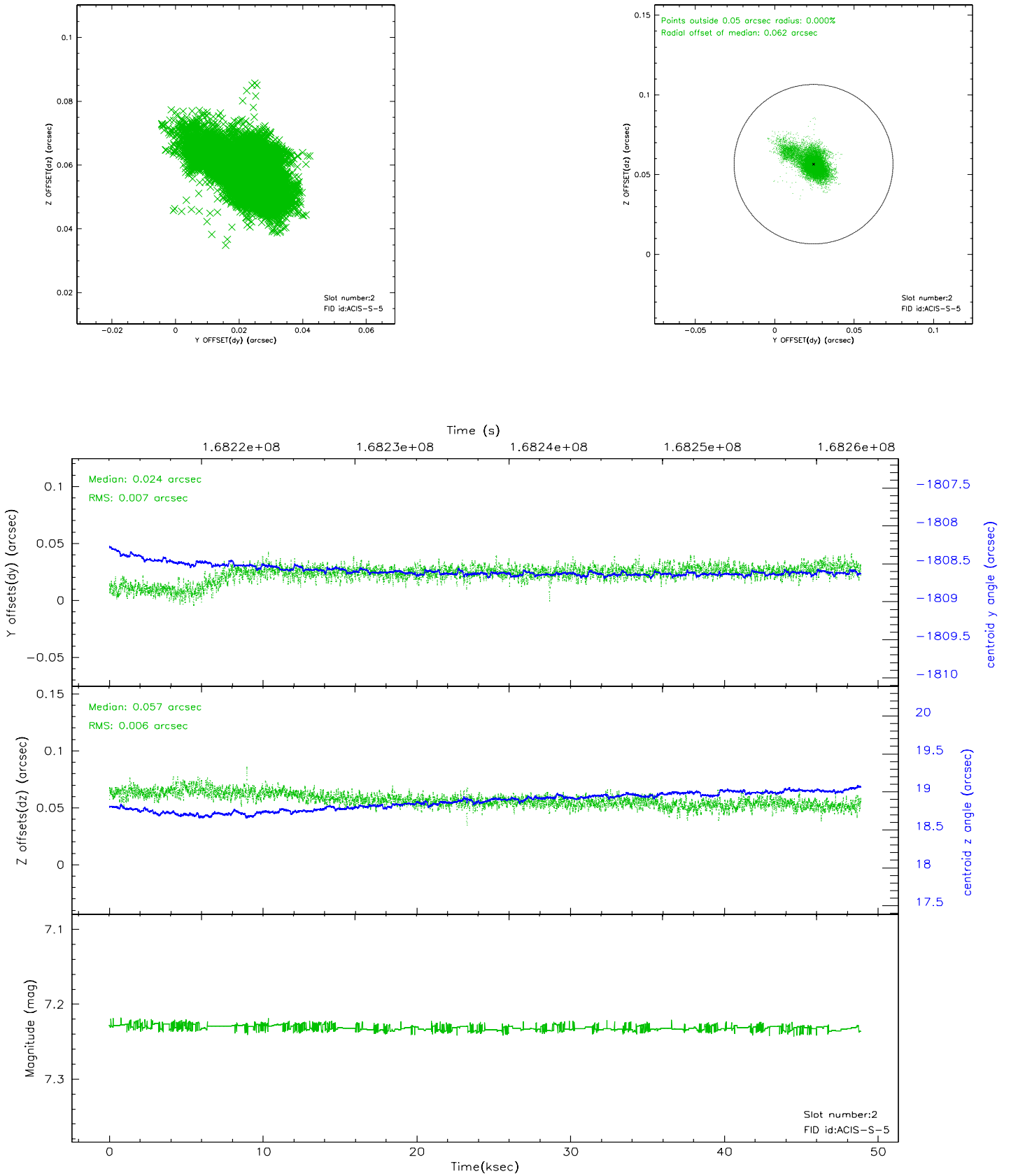
2.5.1 Slot 0



2.5.2 Slot 1

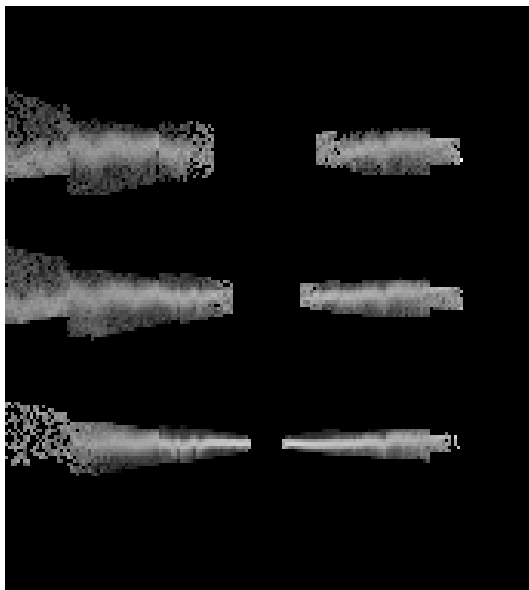


2.5.3 Slot 2



3 Gratings

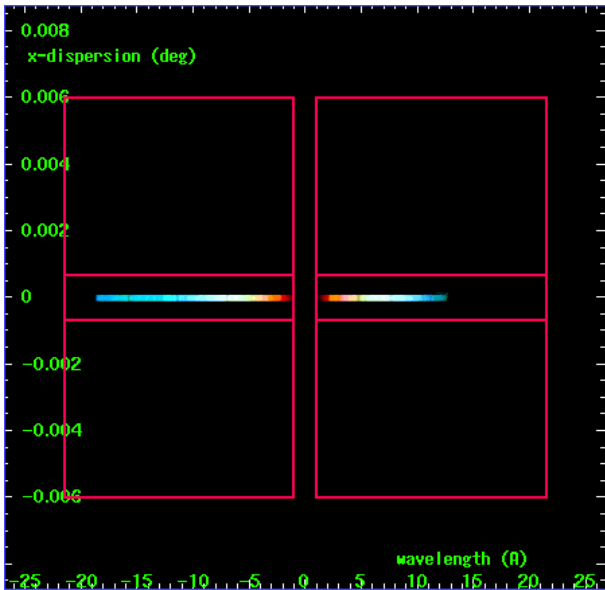
3.1 HEG Arm



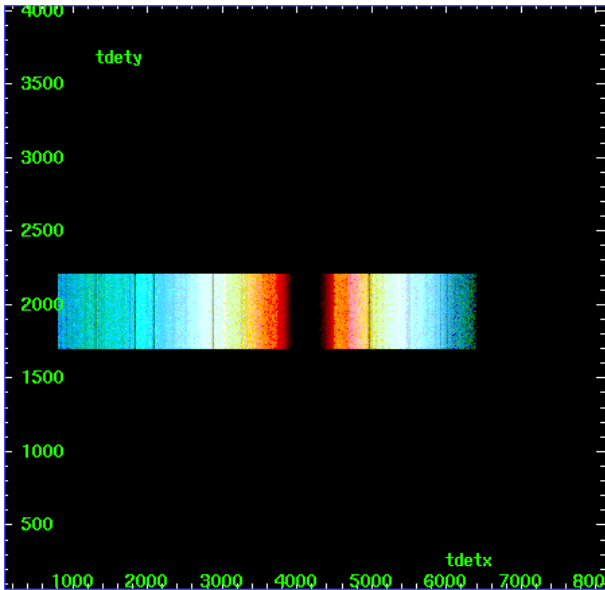
HEG Order Sort 123



HEG Order Sort ALL

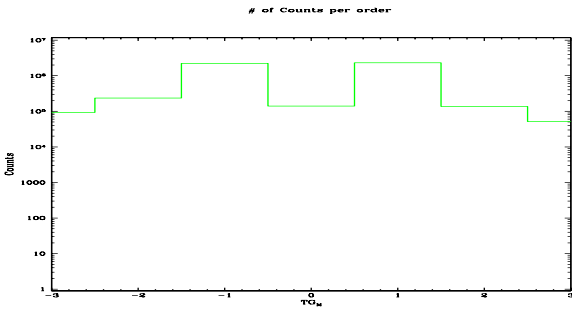


Spot Image HEG

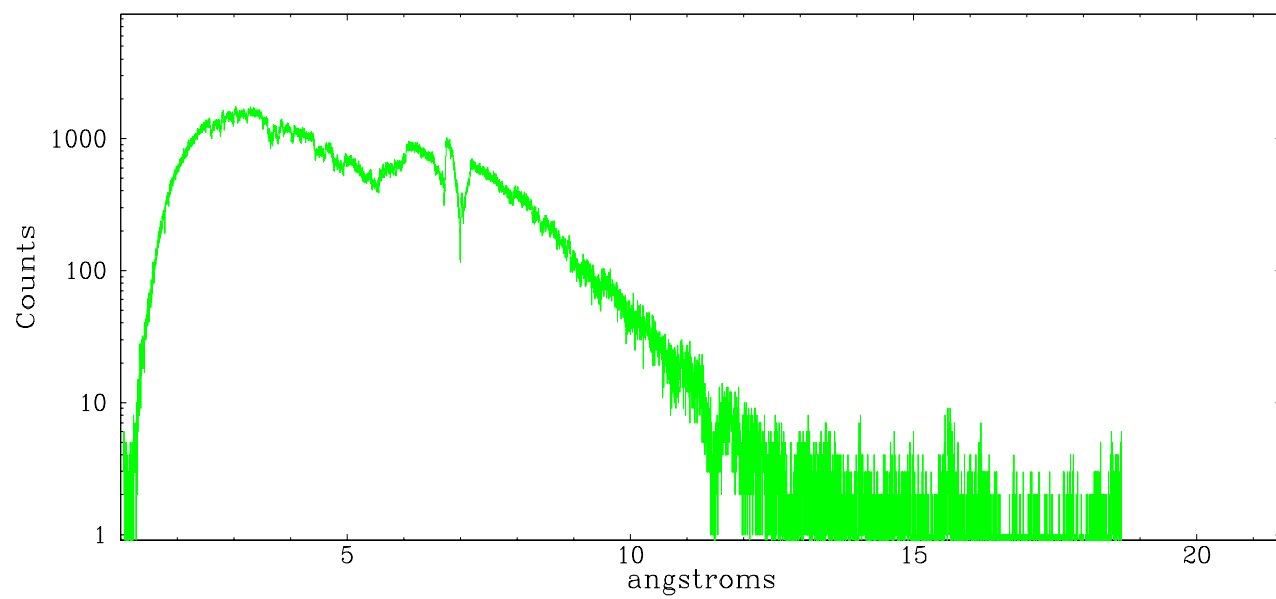


Full Detector HEG

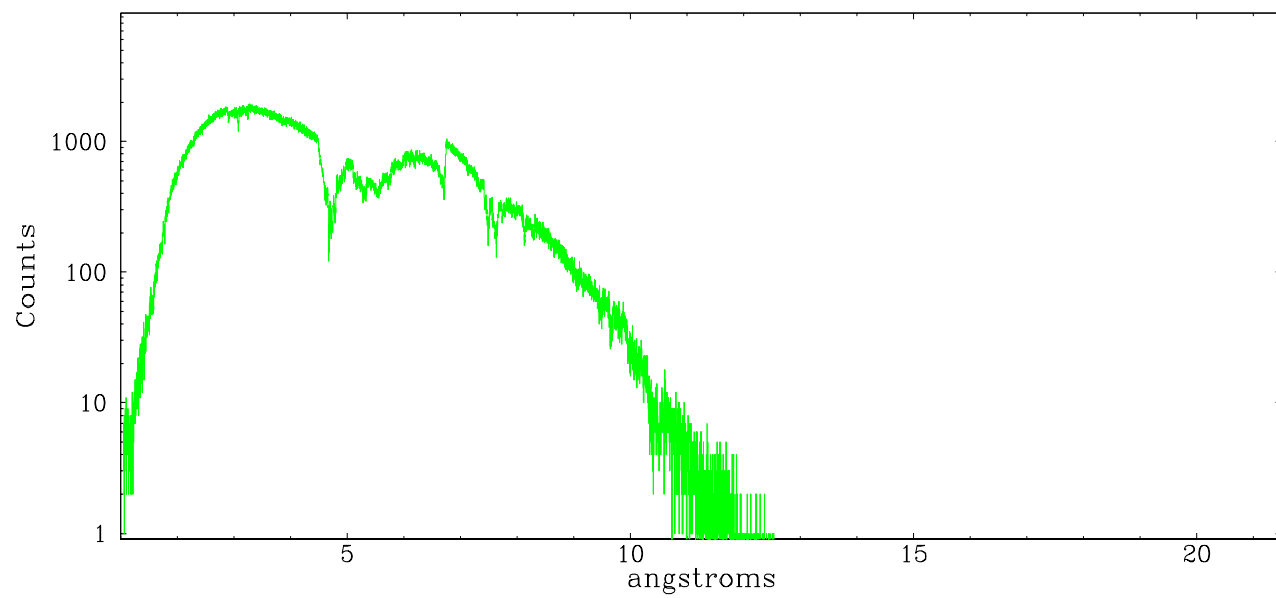
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	92692	236270	2237963	140993	2323058	137632	51618



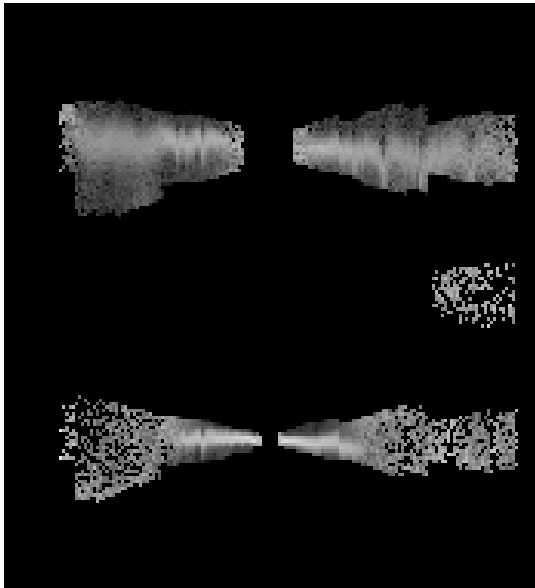
heg order -1



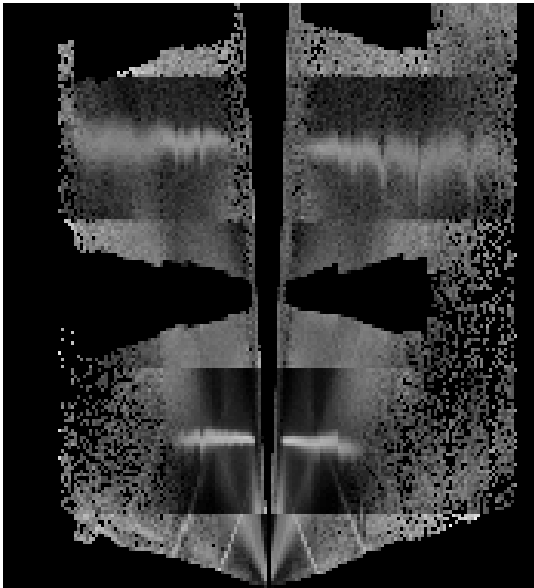
heg order +1



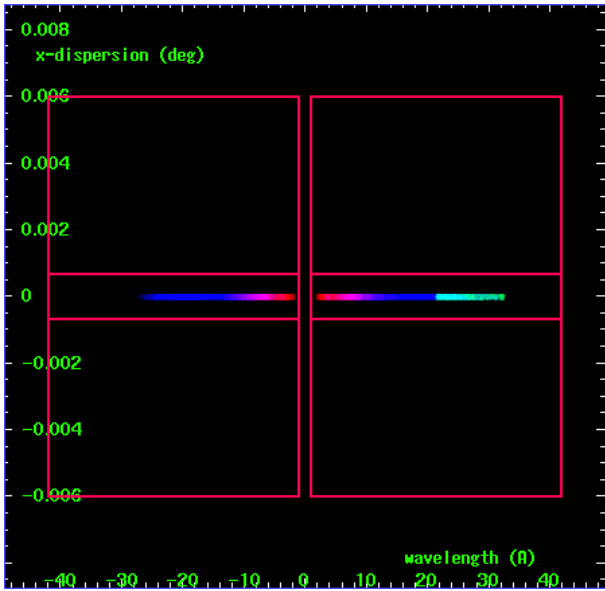
3.2 MEG Arm



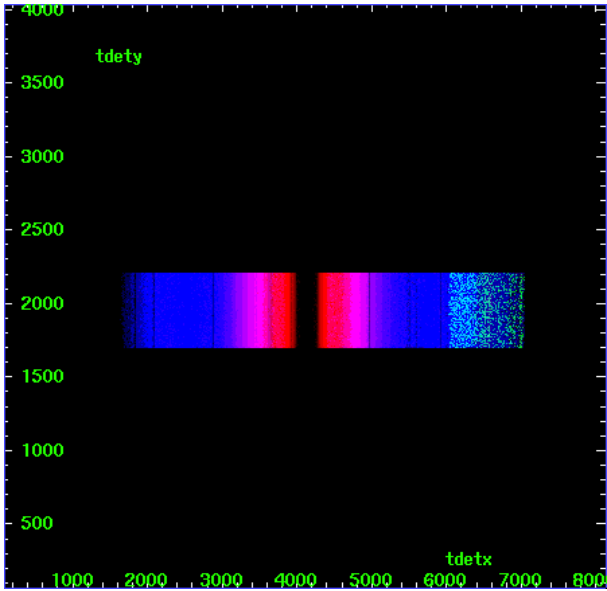
MEG Order Sort 123



MEG Order Sort ALL

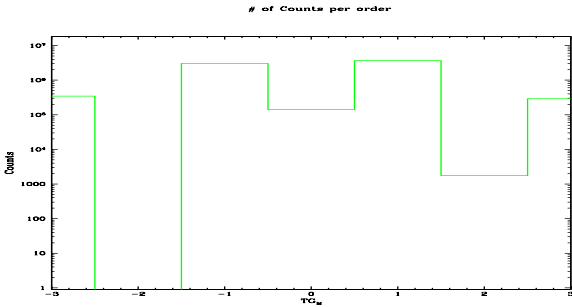


Spot Image MEG

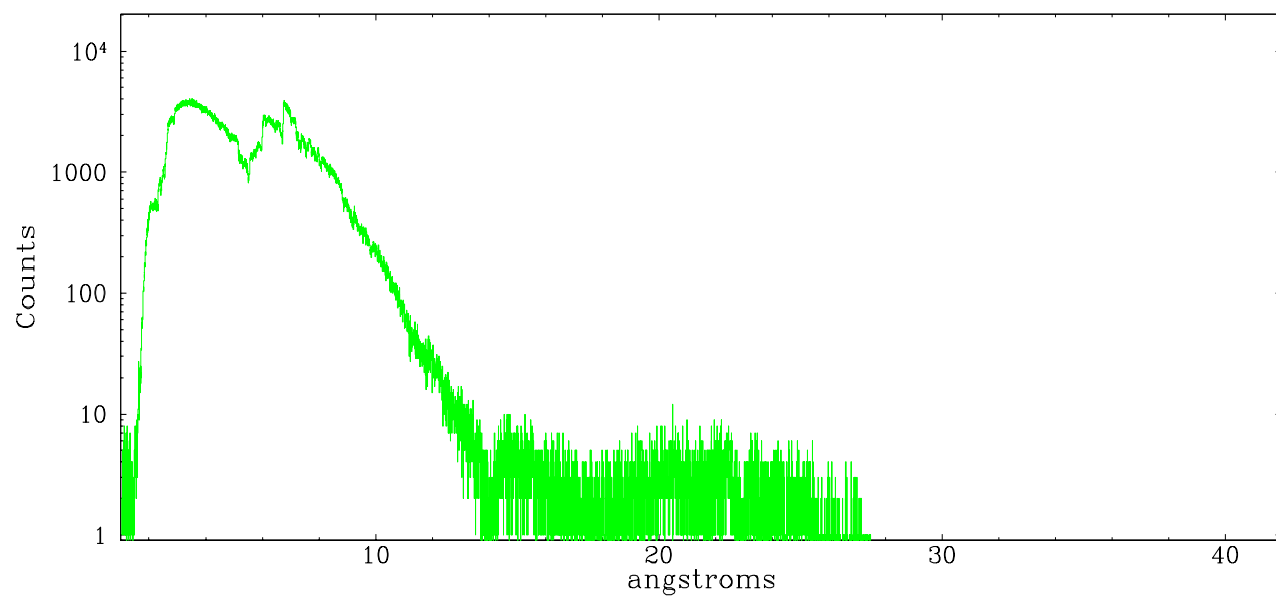


Full Detector MEG

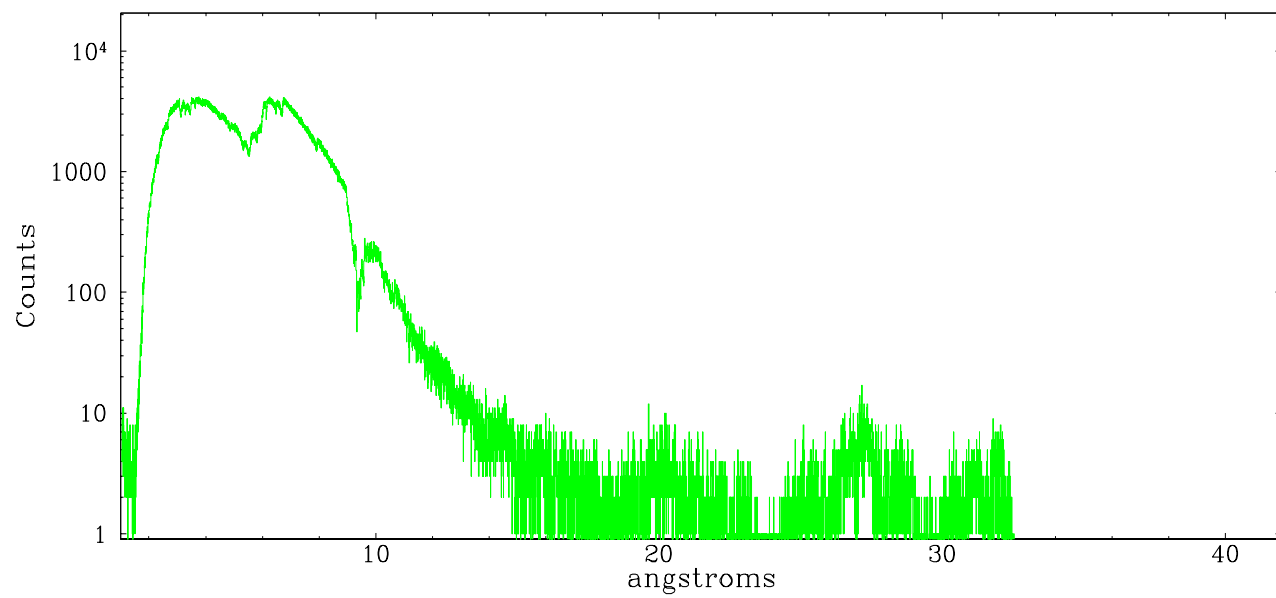
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	346549	0	3024466	140993	3638831	1736	289536



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.719

A.2 Comments