

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1017 - L2 Version 001
Chandra X-Ray Center

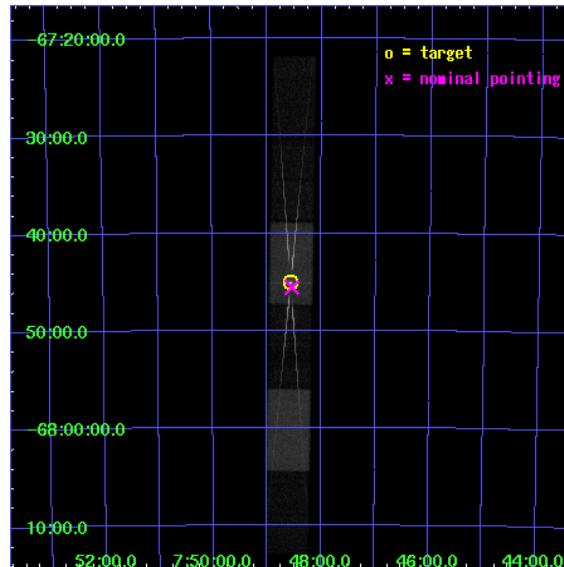
L2 Processing Date : Nov 14 2006

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1 Front

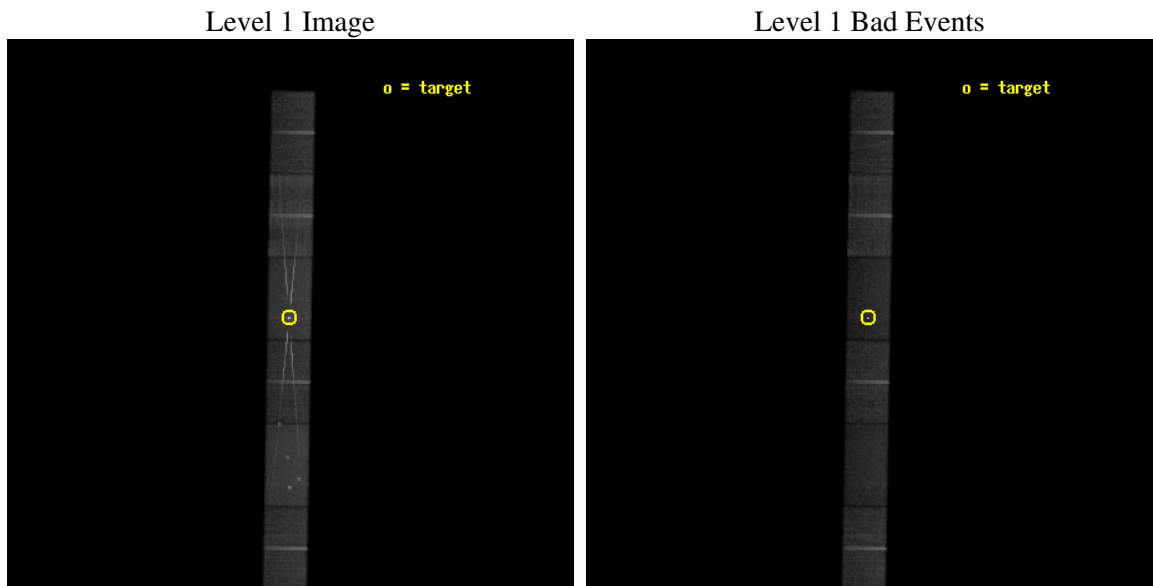
seq_num	400095
obs_id	1017
title	HIGH RESOLUTION X-RAY SPECTROSCOPY OF X-RAY SPECTRA FROM THE TRANSIENT X-RAY BURST SOURCE EXO 0748-676
observer	Prof. Claude Canizares
object	EXO 0748-676
dtcycle	0
cycle	P
ra_targ	117.13875
dec_targ	-67.75
ra_nom	117.1345525186
dec_nom	-67.759666922514
roll_nom	270.97614399464
revision	2
ontime	49085.912404746
livetime	47991.701608082
ontime4	49086.856566876
ontime5	49085.015576735
ontime6	49085.015526891
ontime7	49085.912404746
ontime8	49086.856596783
ontime9	49086.856566906
l2events	297239



2 OBI

2.1 OBI

2.1.1 Images

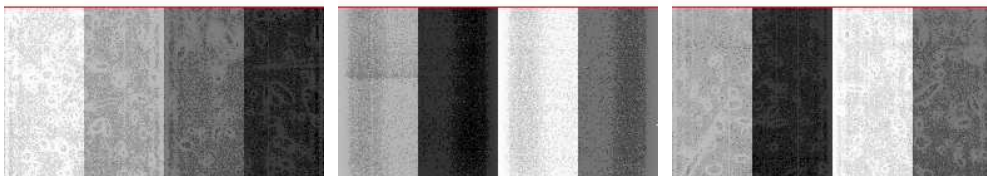


2.1.2 Bias

Chip 4

Chip 5

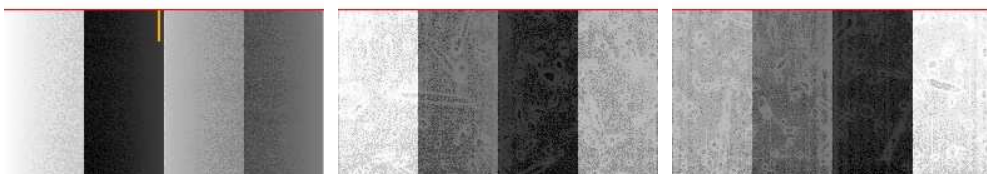
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldbver	3.2.4
date	2006-11-14T17:59:03
revision	2

sched_exp_time	48950.000000
ontime	49282.173659116
ontime4	49284.014699087
ontime5	49282.173708946
ontime6	49282.173659101
ontime7	49282.173659116
ontime8	49284.014728993
ontime9	49284.014699116
l1events	1117283

2.1.4 Events

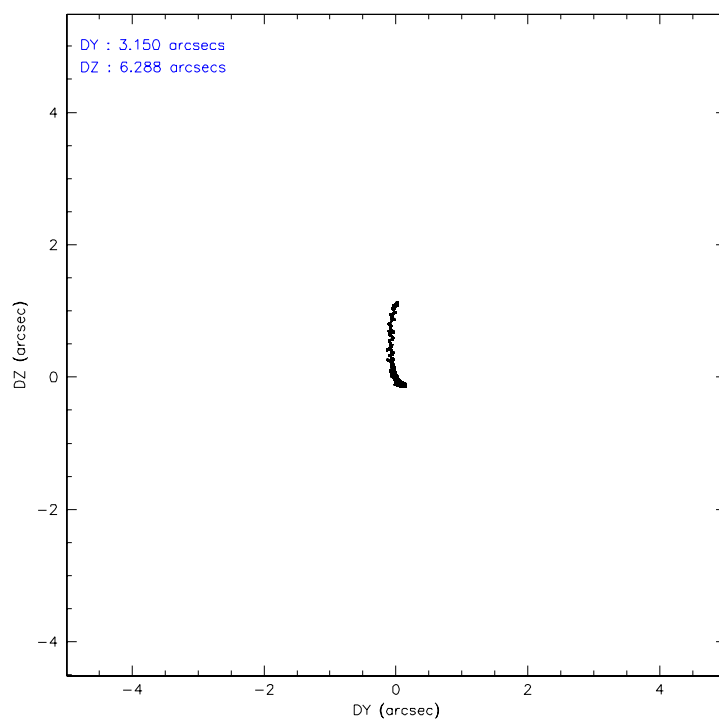
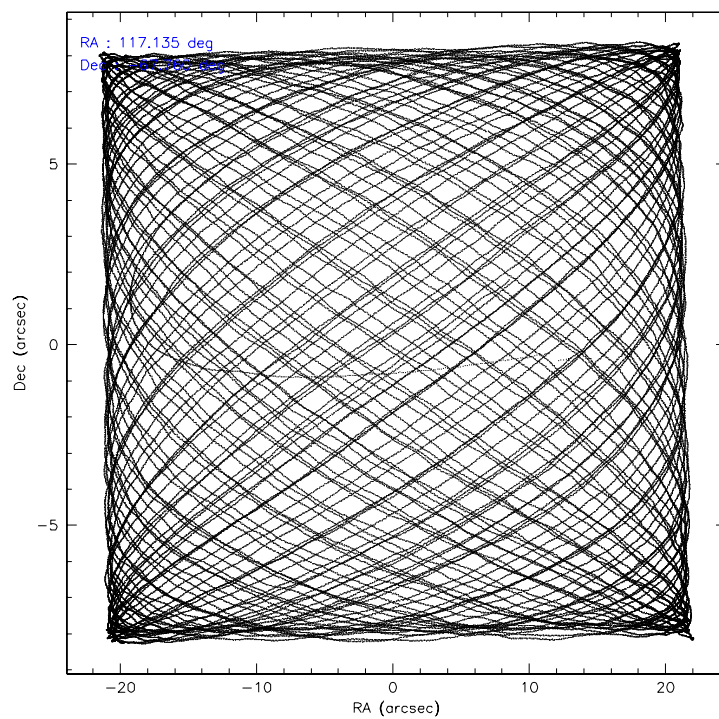
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	163482	196169	173949	237765	203902	142016
rejected events	143869	106437	131668	113328	150741	122756
rejected %	88%	54%	75%	47%	73%	86%

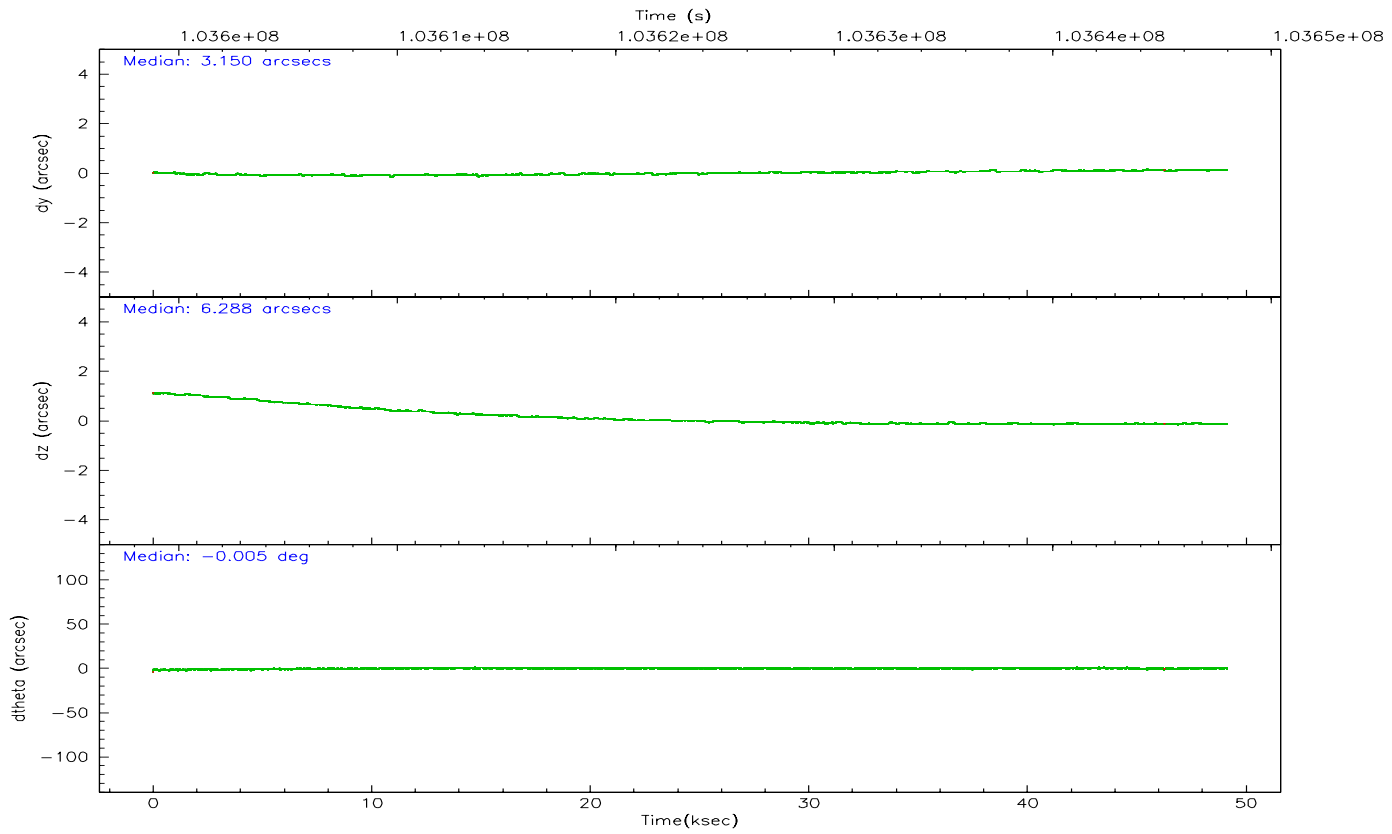
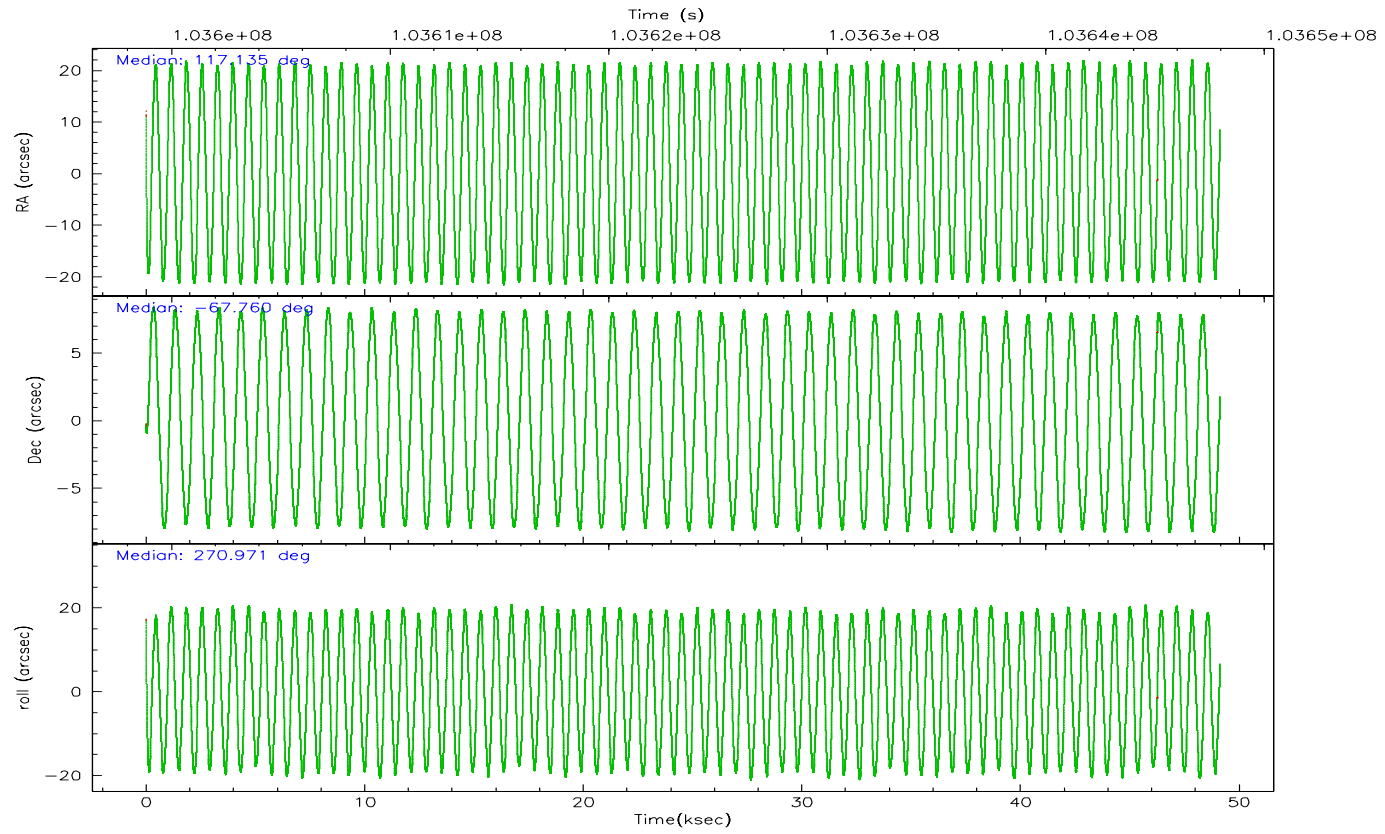
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8034	10391	24496	14016	19379	8032
	4%	5%	14%	5%	9%	5%
grade 1 events	45	389	140	504	112	39
	0%	0%	0%	0%	0%	0%
grade 2 events	4497	25649	6639	29388	9640	3771
	2%	13%	3%	12%	4%	2%
grade 3 events	1959	3258	3158	10032	6561	2028
	1%	1%	1%	4%	3%	1%
grade 4 events	1918	3260	3126	9893	5949	2015
	1%	1%	1%	4%	2%	1%
grade 5 events	4795	10525	5622	15927	7236	5560
	2%	5%	3%	6%	3%	3%
grade 6 events	3269	47566	4978	61575	11871	3490
	1%	24%	2%	25%	5%	2%
grade 7 events	138965	95131	125790	96430	143154	117081
	85%	48%	72%	40%	70%	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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	117.096879	117.1345525185996	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	-67.736377	-67.75966692251411	Subarray start row	1	1
Pointing Roll	270.784649	270.9761439946402	Subarray row count	542	542
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1.8
SIM translation stage pos (mm)	-184.532523	-184.5306286120915			
SIM translation stage offset (mm)	-5.6	-5.601893970916279			
Observation start time	103599024.184000	103598061.51969			
Observation start date	2001-04-14T01:29:20	2001-04-14T01:14:21			
Observation end time	103647974.184000	103648723.17165			
Observation end date	2001-04-14T15:05:10	2001-04-14T15:18:43			
Read mode	TIMED	TIMED			

2.3 Aspect



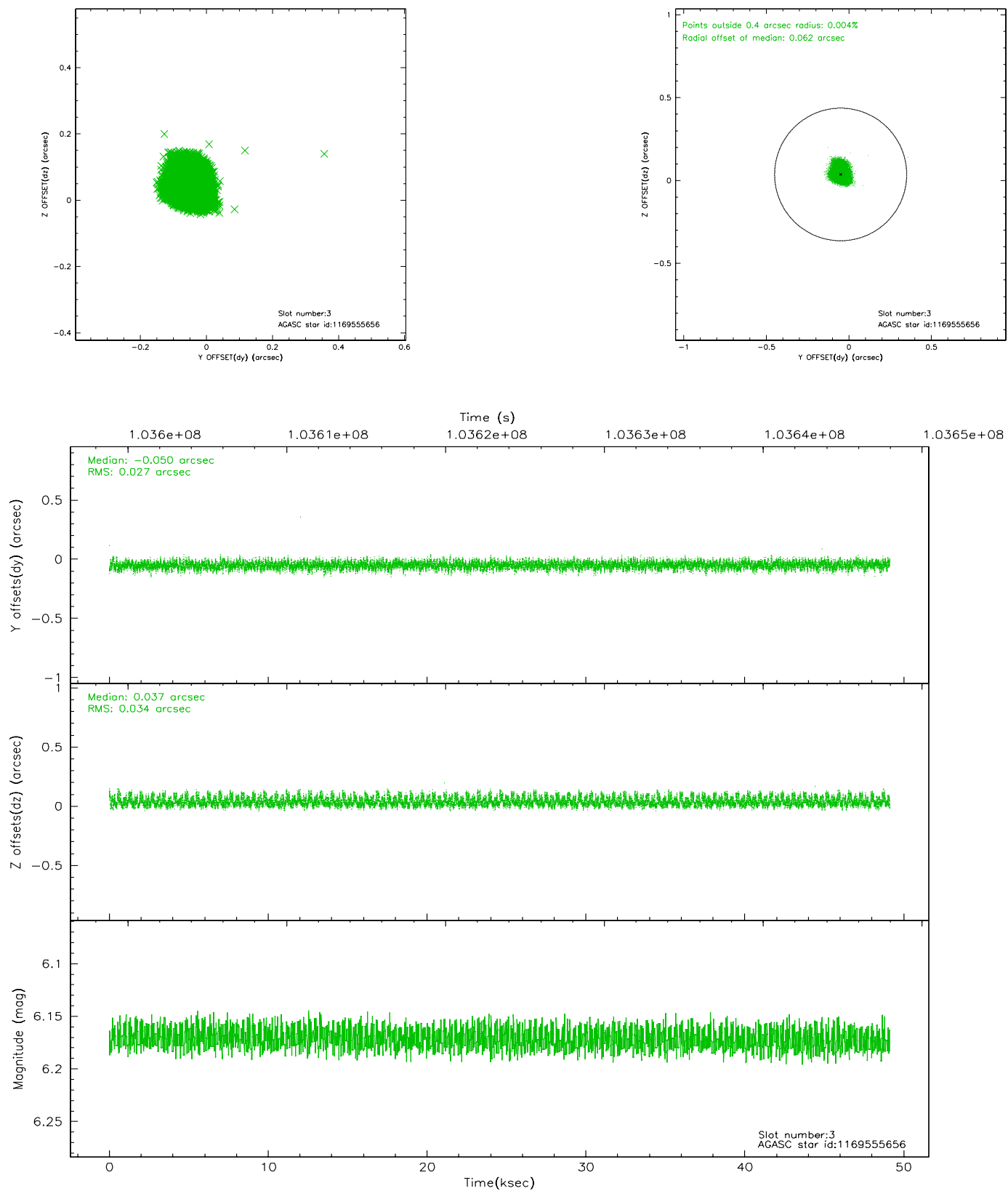


Slot Statistics

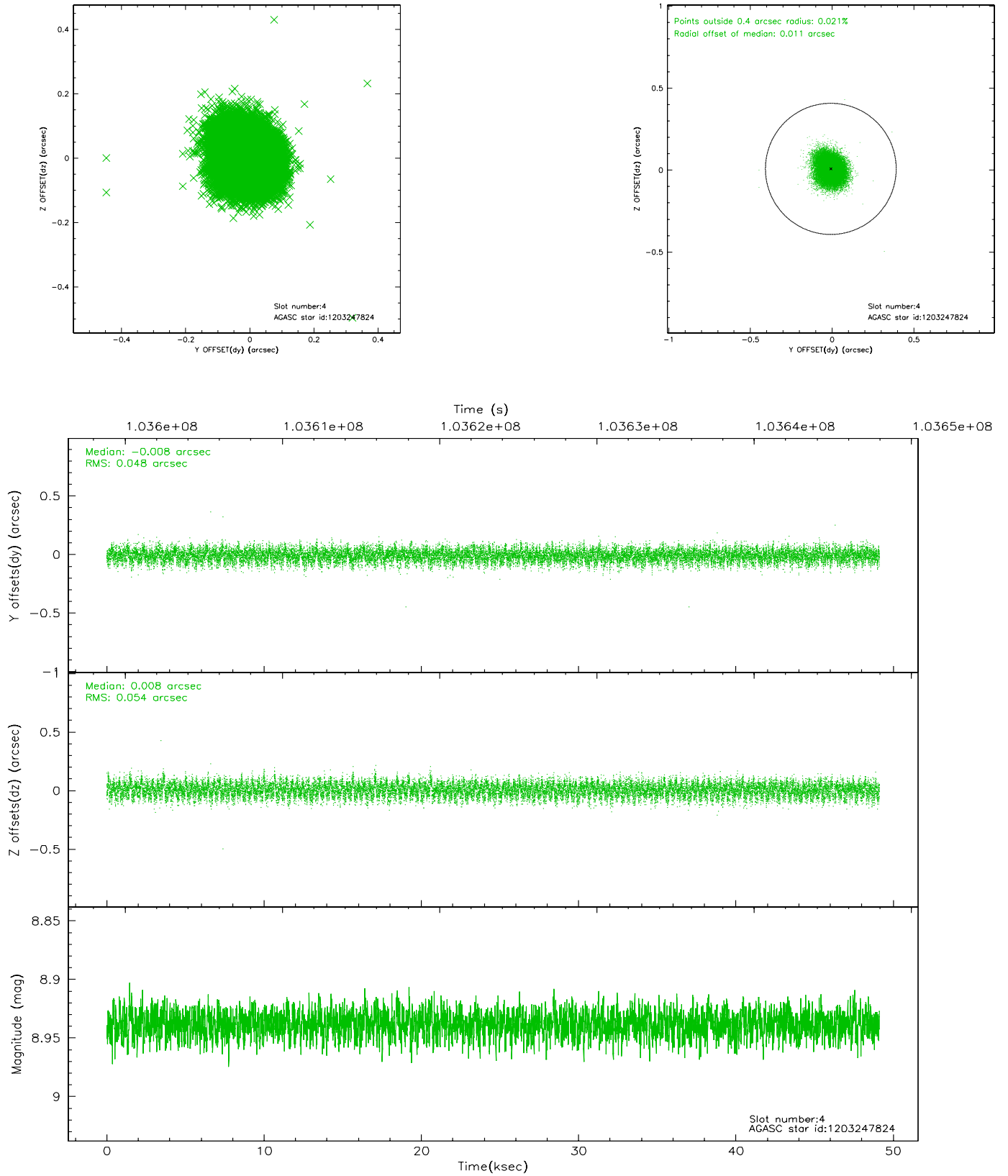
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	11975	0.001	0.074	0.016	0.050	0.000000	0.000000	940.62	-1838.65
1	FID	ACIS-S-5	7.24	11973	0.029	0.041	0.008	0.014	0.000000	0.000000	-1808.34	58.88
2	FID	ACIS-S-6	7.39	11973	-0.051	-0.104	0.016	0.045	0.000000	0.000000	406.16	702.66
3	GUIDE	1169555656	6.17	23940	-0.050	0.037	0.046	0.075	116.003221	-67.202031	-1930.30	-1499.82
4	GUIDE	1203247824	8.94	23929	-0.008	0.008	0.077	0.123	118.440930	-68.009396	1027.50	1797.42
5	GUIDE	1203255976	8.66	23936	0.040	0.050	0.075	0.119	115.388670	-67.678535	-207.11	-2333.00
6	GUIDE	1169557456	8.56	23940	-0.078	-0.036	0.051	0.084	118.131351	-67.446369	-1012.16	1441.69
7	GUIDE	1203248696	8.96	23940	0.095	-0.059	0.064	0.106	117.312691	-68.108459	1344.42	271.08

2.4 Star Slots

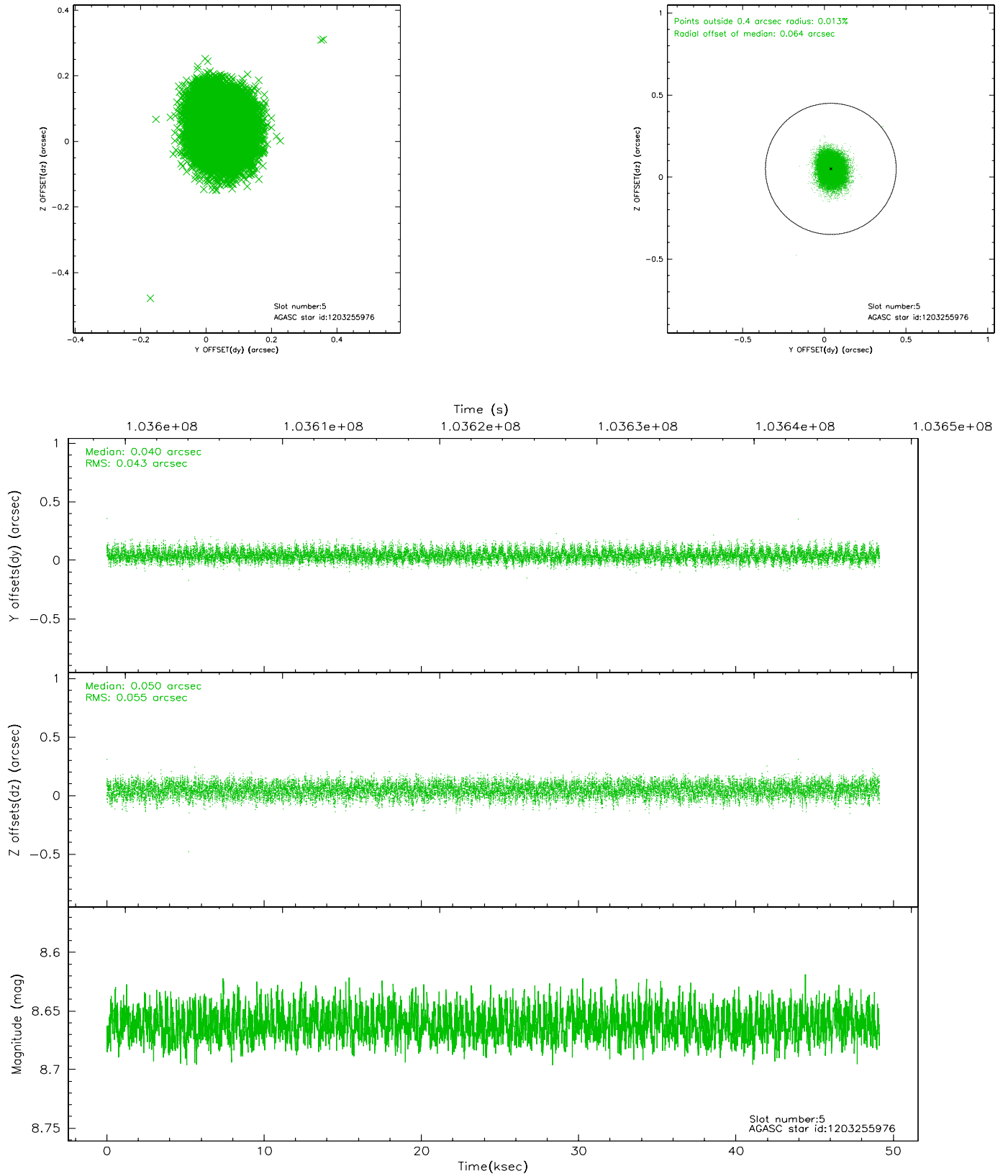
2.4.1 Slot 3



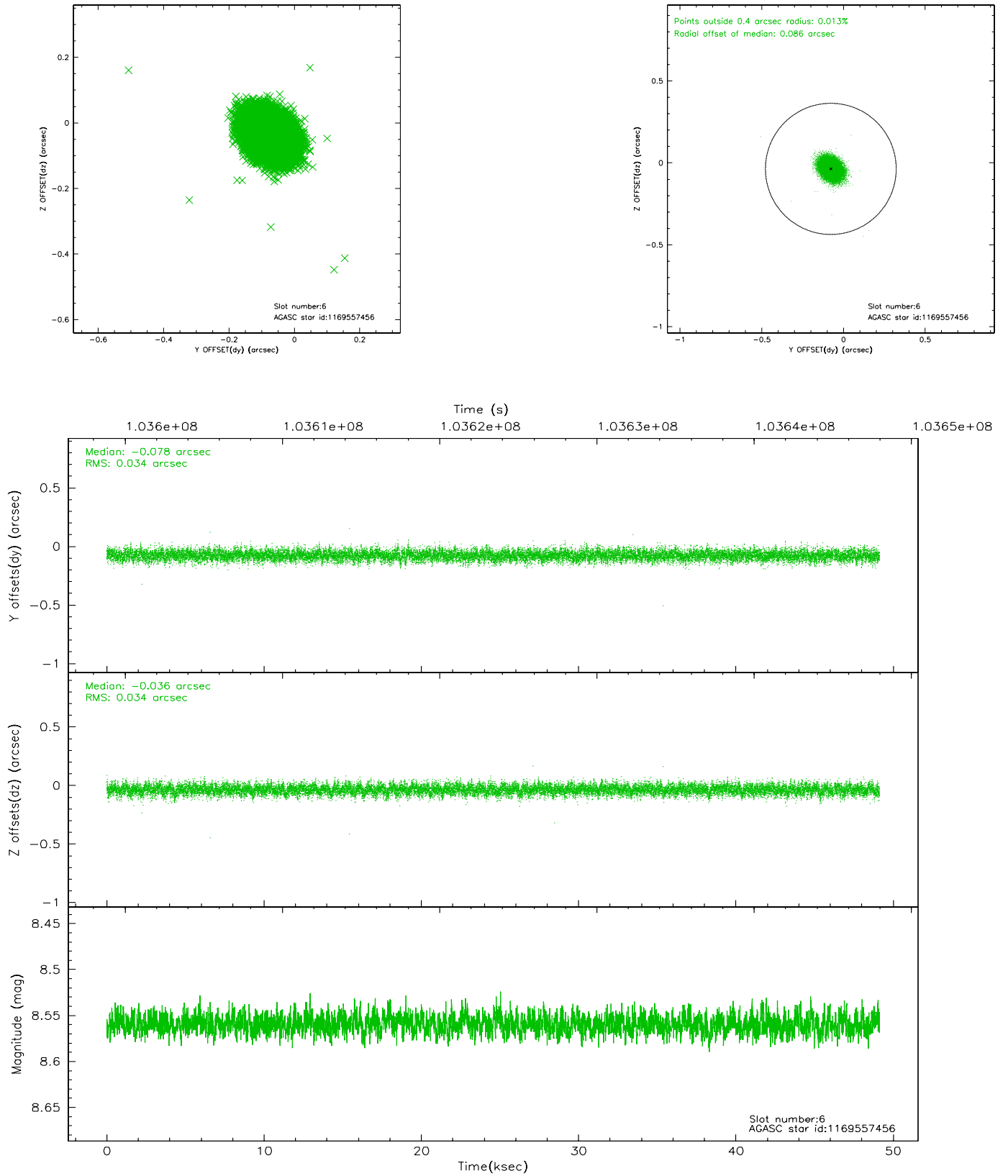
2.4.2 Slot 4



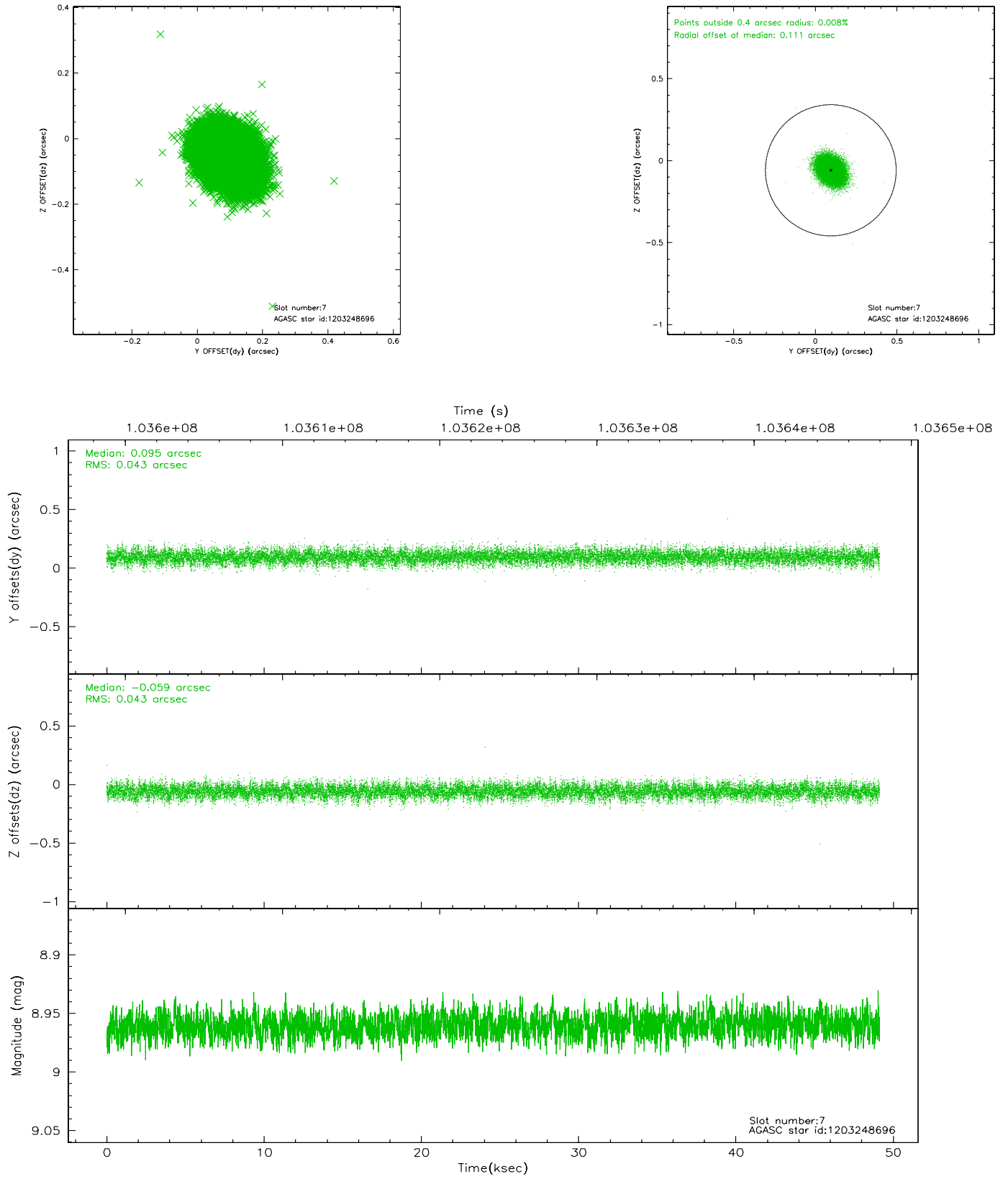
2.4.3 Slot 5



2.4.4 Slot 6

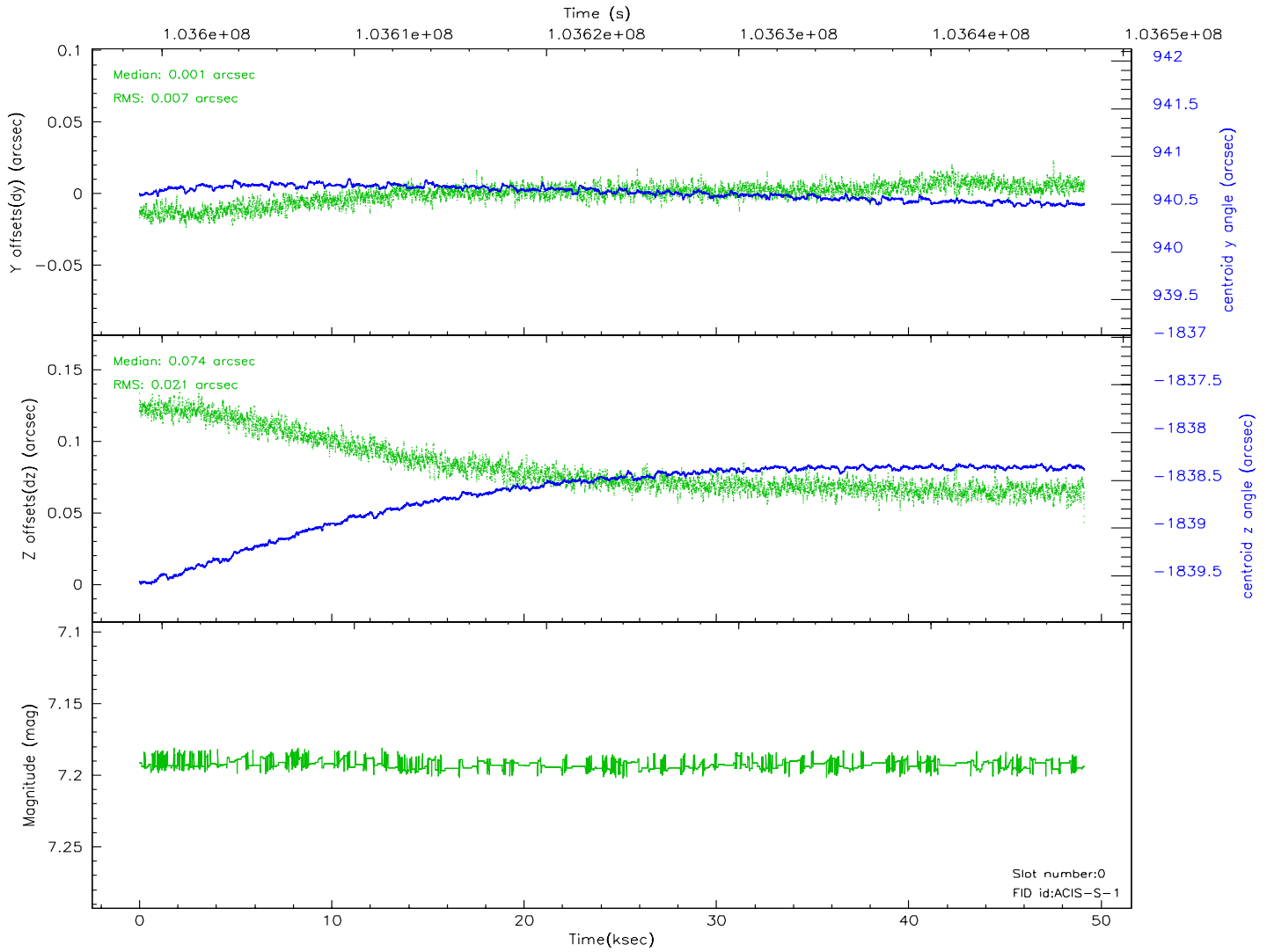
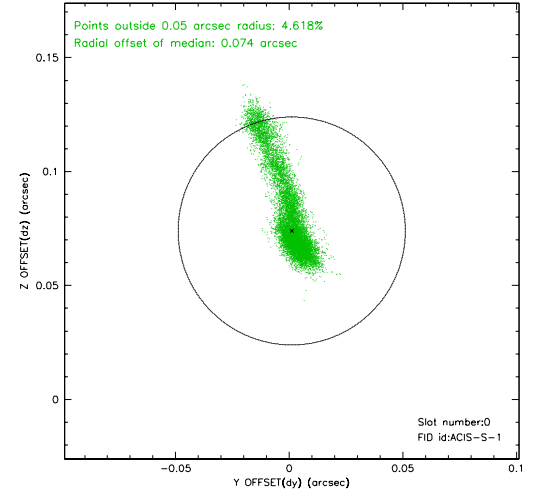
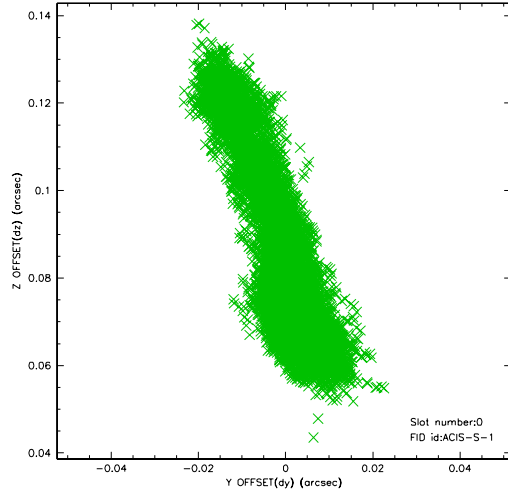


2.4.5 Slot 7

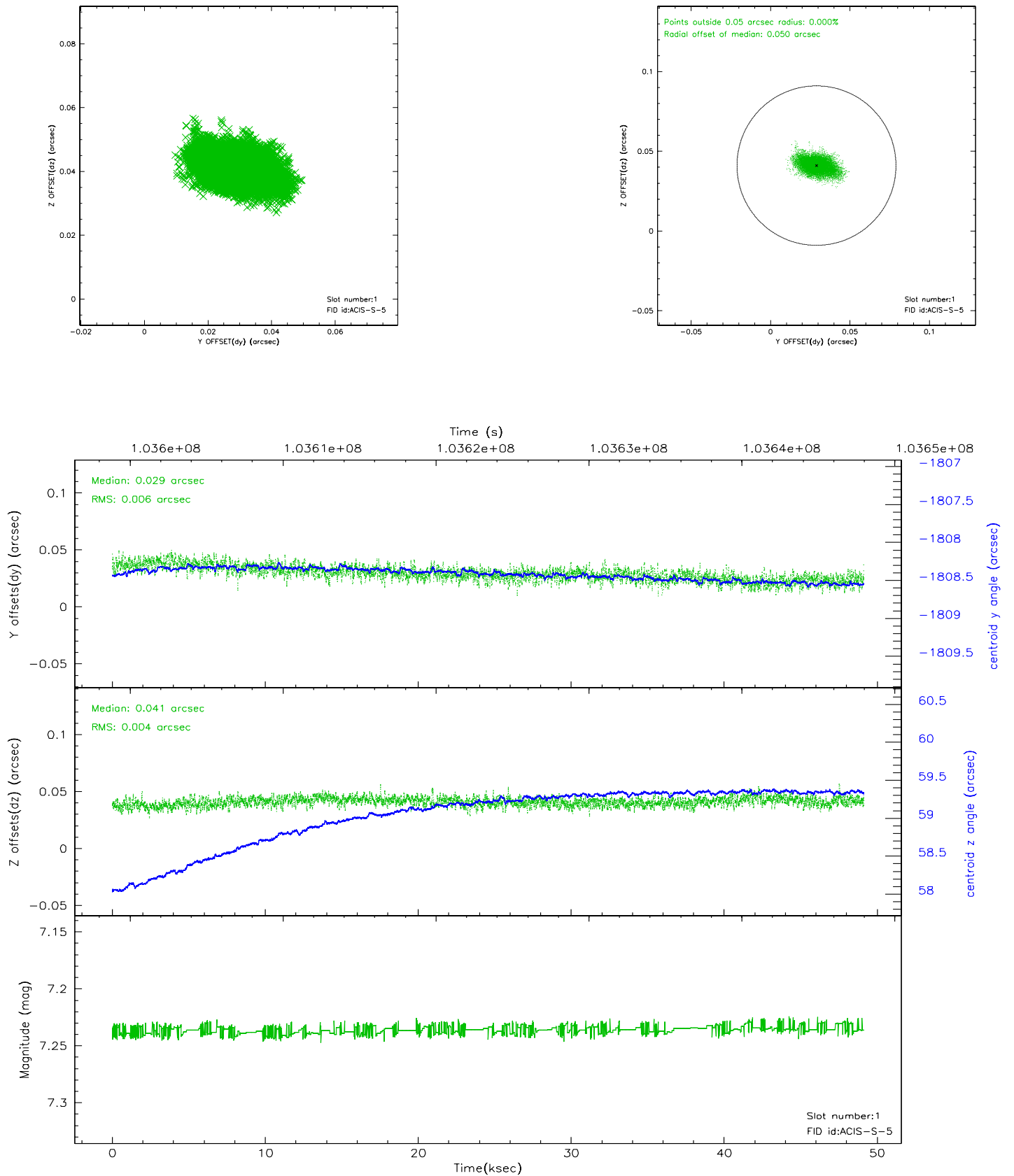


2.5 FID Slots

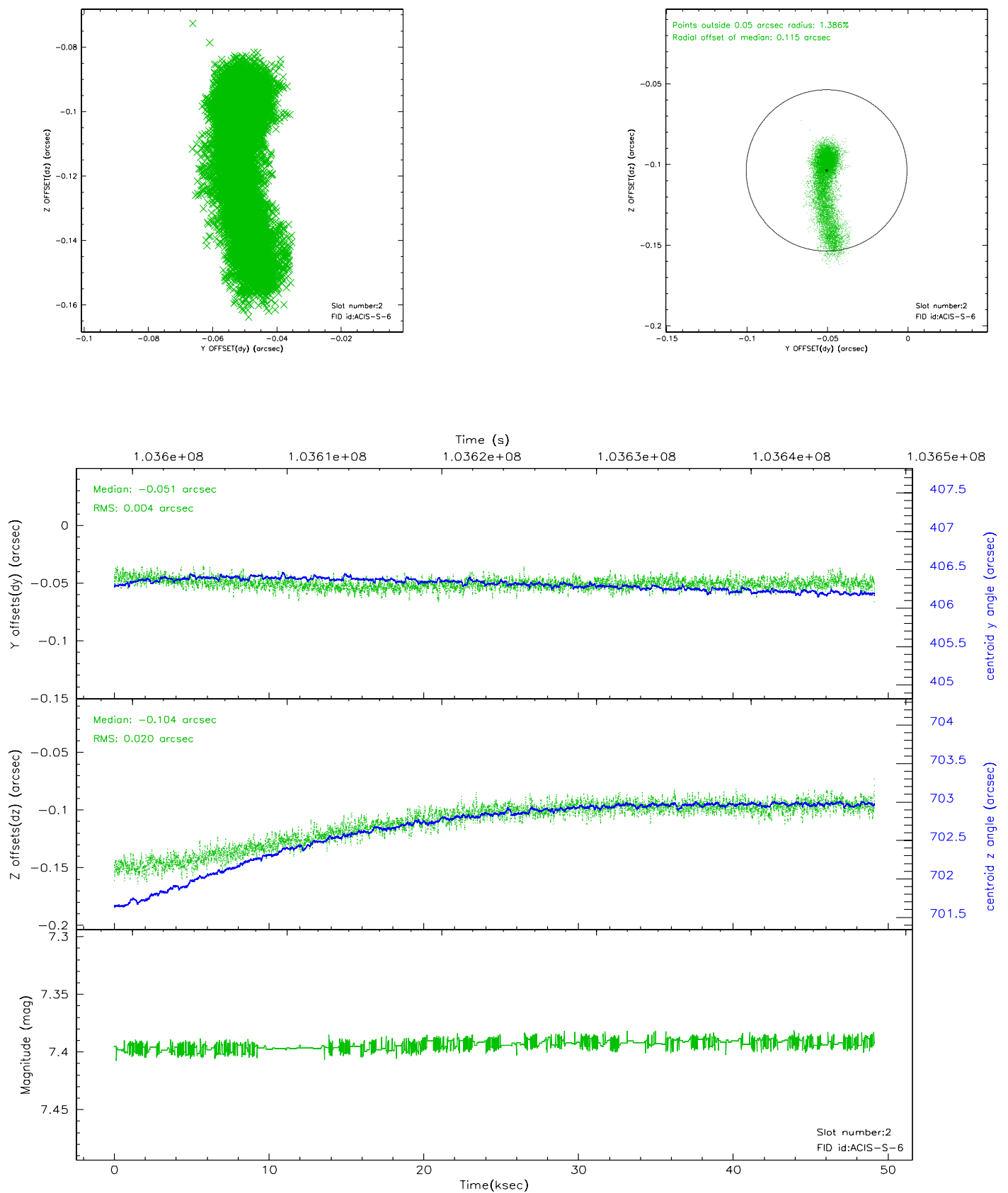
2.5.1 Slot 0



2.5.2 Slot 1

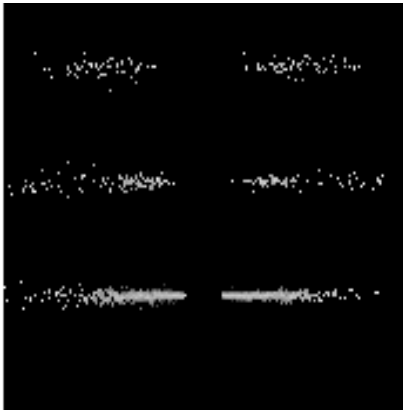


2.5.3 Slot 2

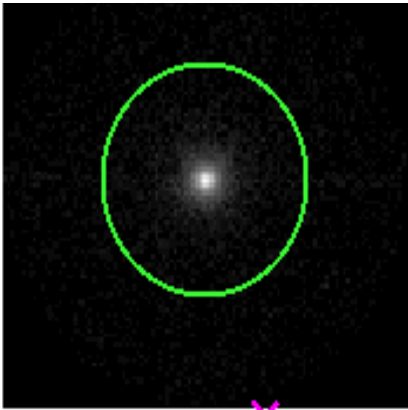


3 Gratings

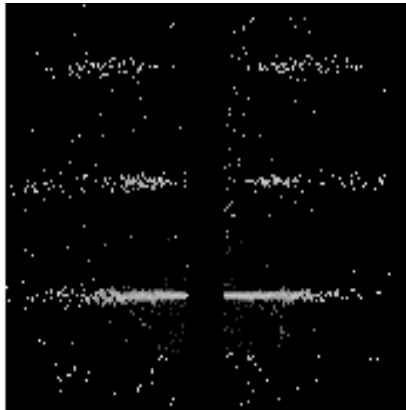
3.1 HEG Arm



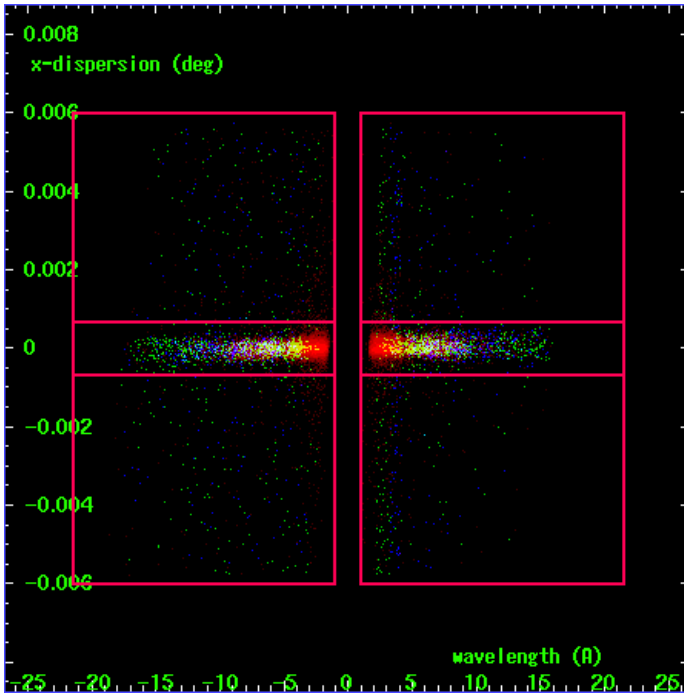
HEG Order Sort 123



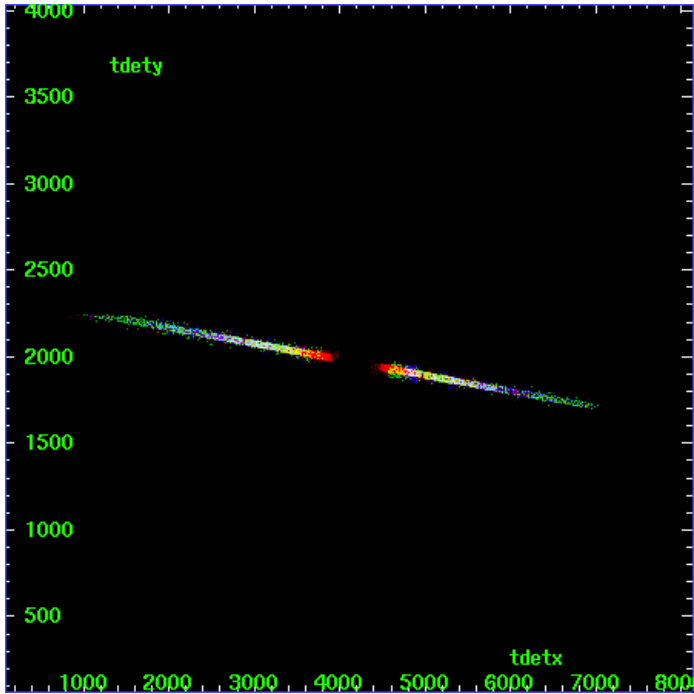
HEG Zero Order



HEG Order Sort ALL

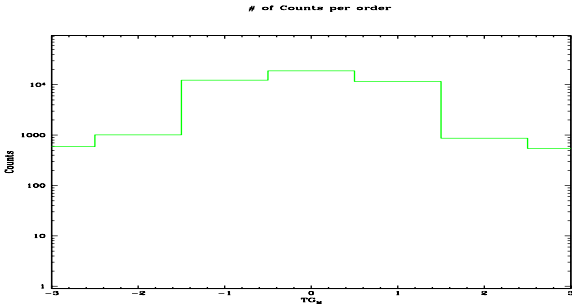


Spot Image HEG

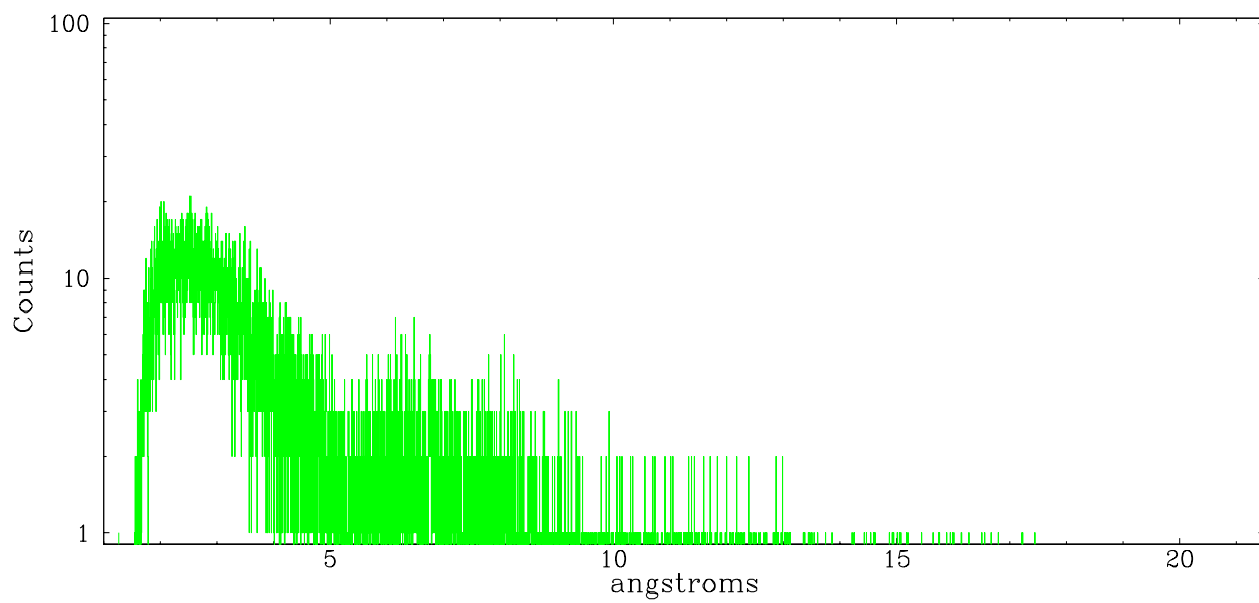


Full Detector HEG

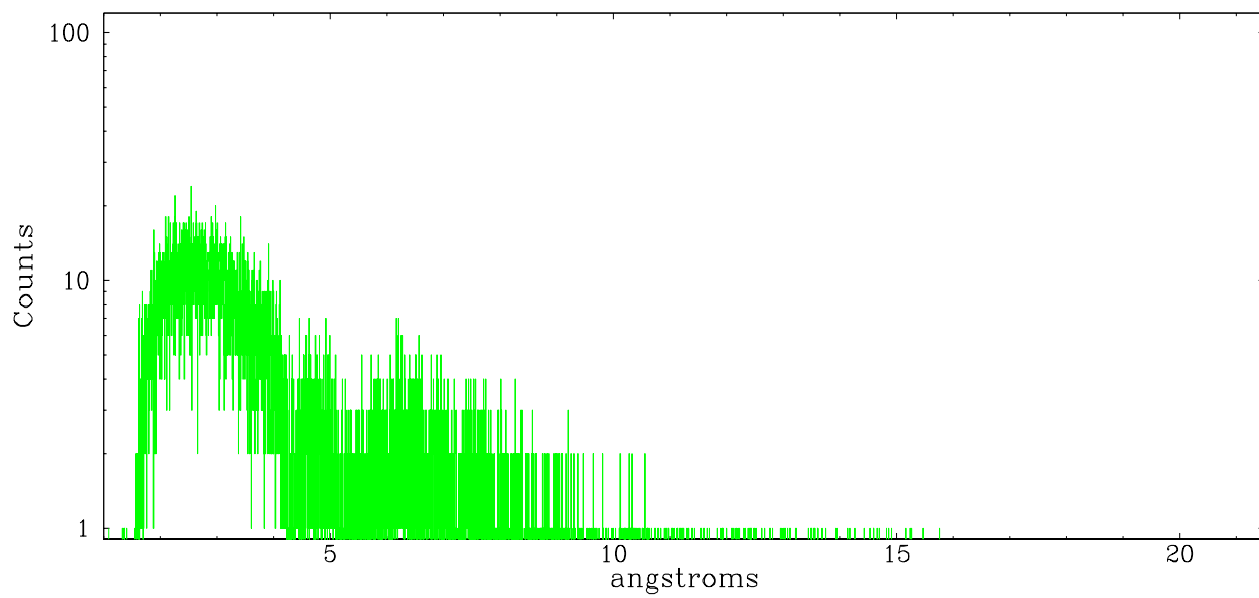
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	590	1010	12340	18821	11608	868	545



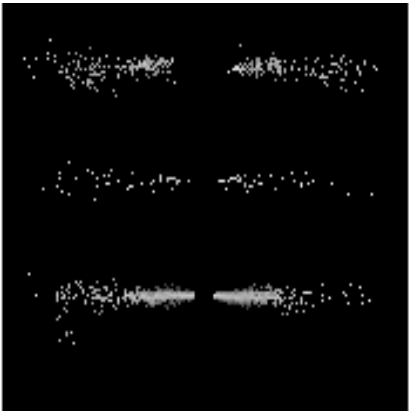
heg order -1



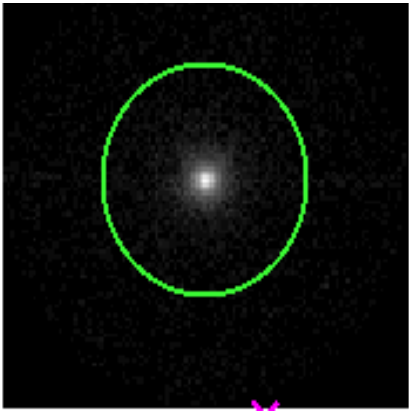
heg order +1



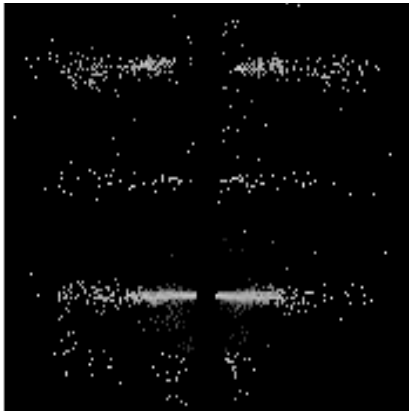
3.2 MEG Arm



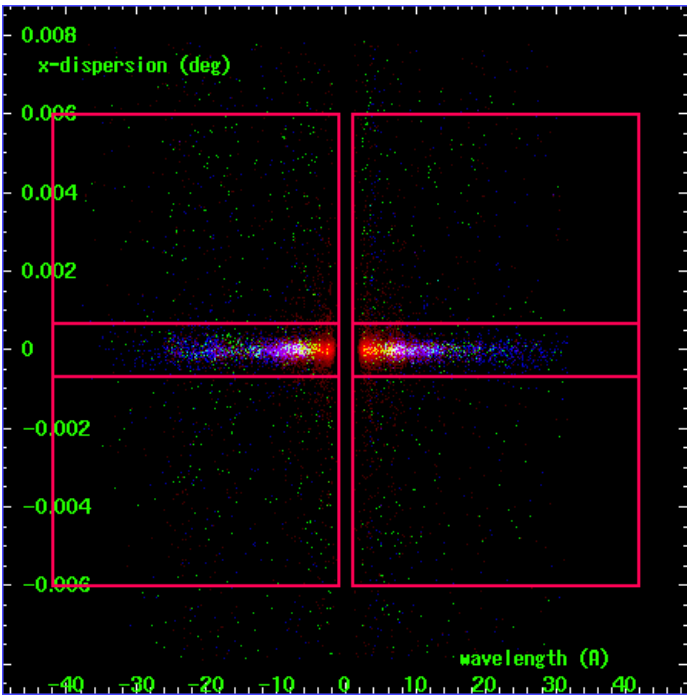
MEG Order Sort 123



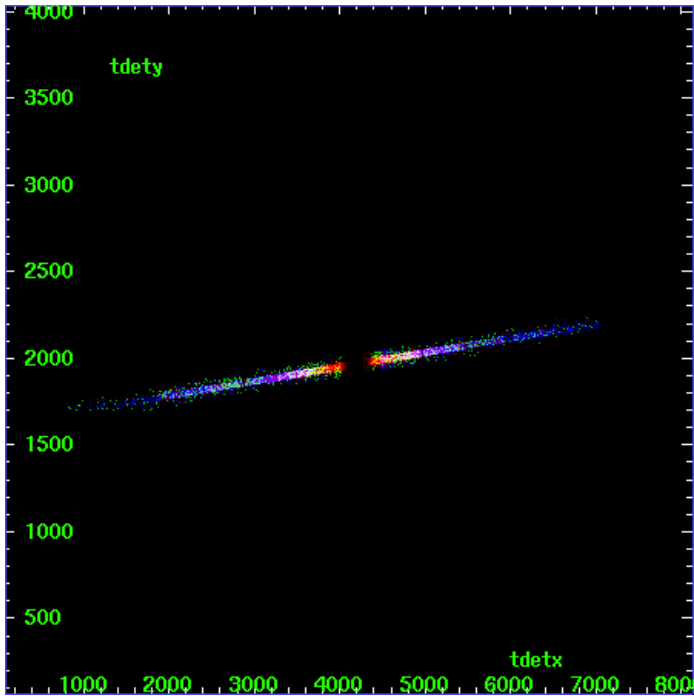
MEG Zero Order



MEG Order Sort ALL

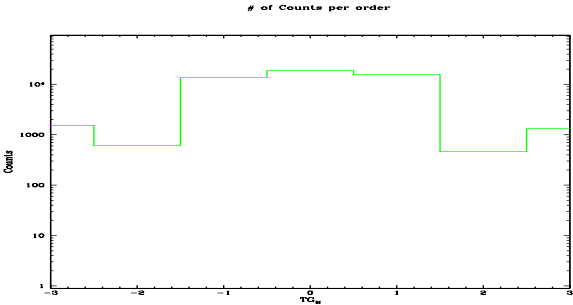


Spot Image MEG

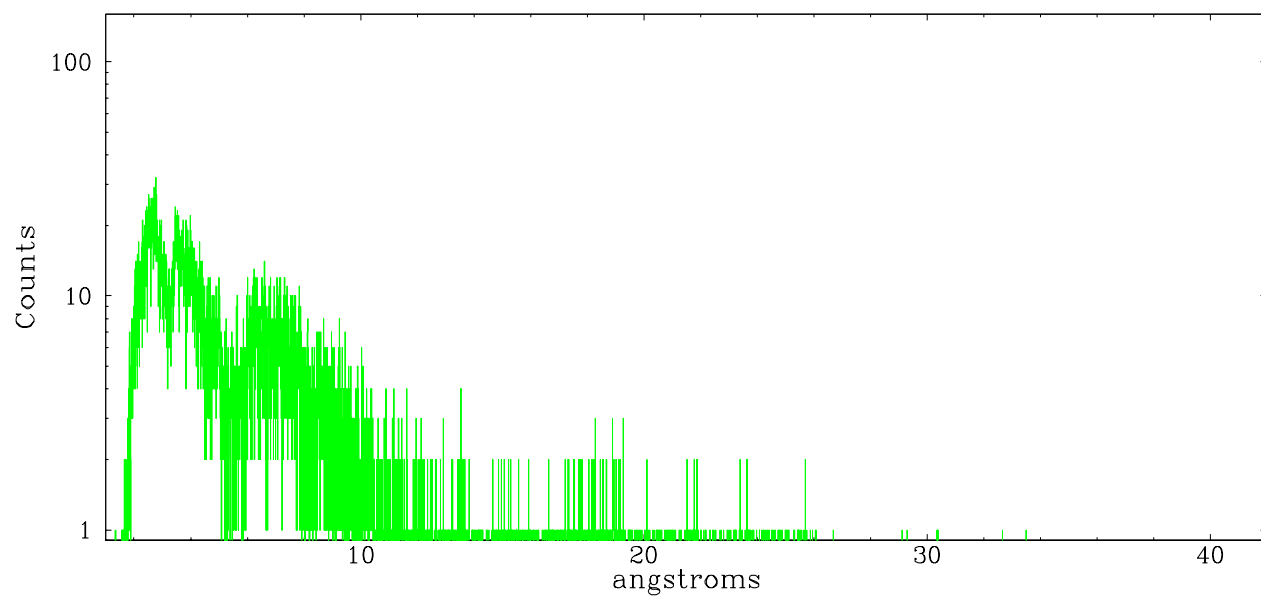


Full Detector MEG

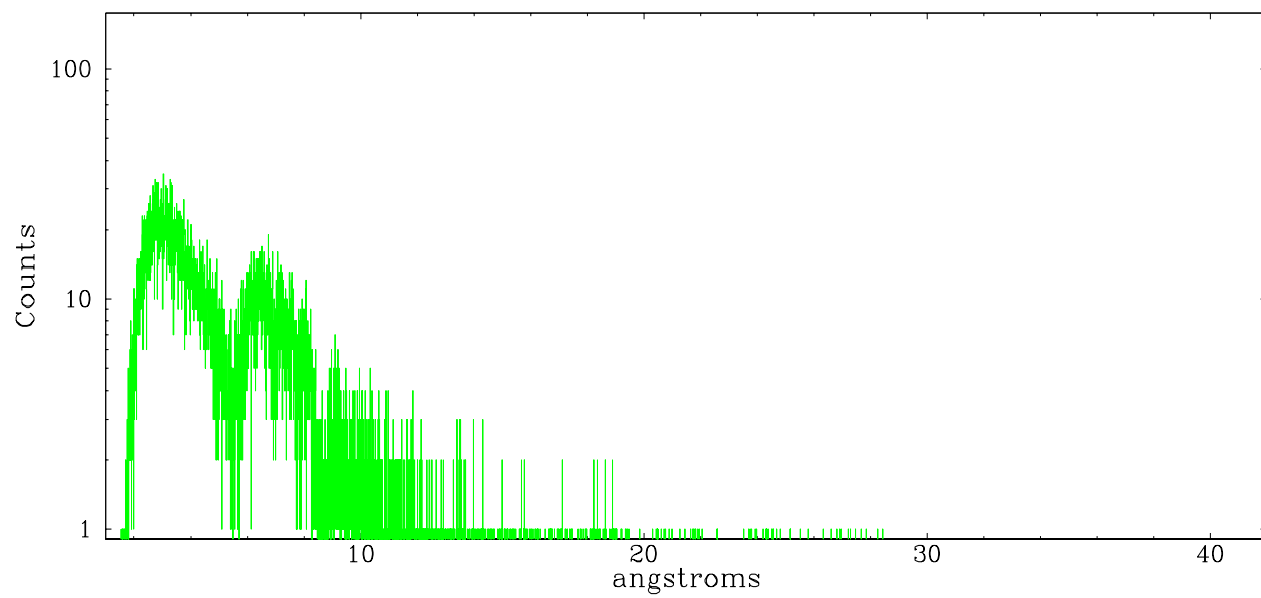
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1542	607	13638	18821	15783	463	1334



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49

A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 49 ks.

FID 0 and 2 have a few points outside the 0.05arcsec circle; some aspect solution

warnings, but spectra, aspect, zero order otherwise look OK.