

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2746 - L2 Version 001
Chandra X-Ray Center

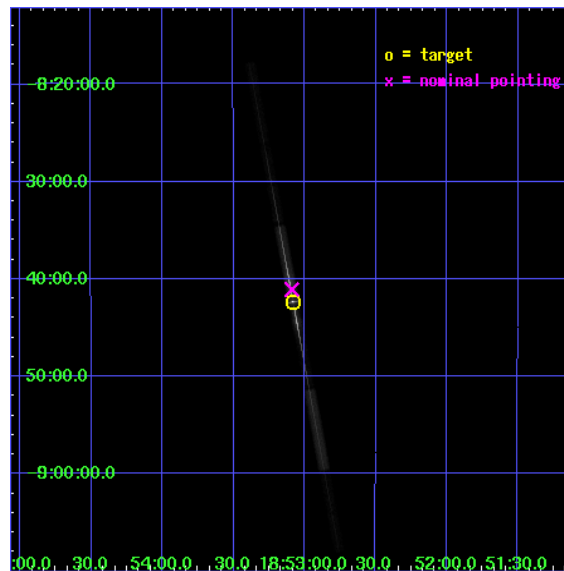
L2 Processing Date : Sep 28 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

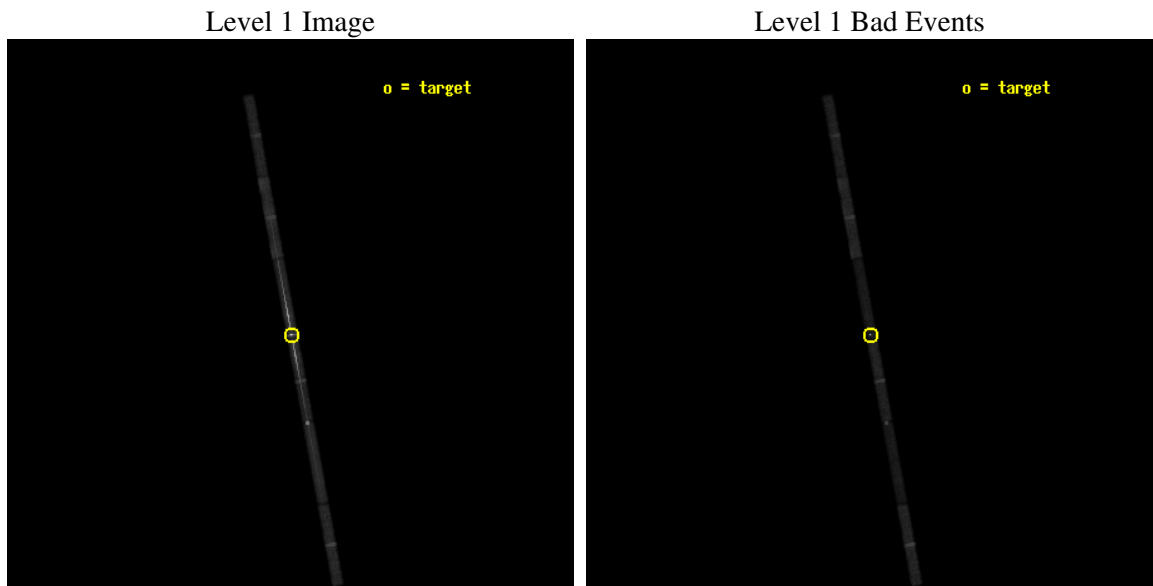
seq_num	400226
obs_id	2746
title	RESOLVING THE SOFT EXCESS IN 4U 1850-087
observer	Prof. Deepto Chakrabarty
object	4U 1850-087
dtcycle	0
cycle	P
ra_targ	283.27
dec_targ	-8.7055
ra_nom	283.27227754243
dec_nom	-8.6845899158348
roll_nom	259.45232340445
revision	2
ontime	52666.517062902
livetime	49749.759721515
ontime4	52666.517062902
ontime5	52666.517062902
ontime6	52665.035002828
ontime7	52666.517062902
ontime8	52665.776022911
ontime9	52665.776042819
l2events	322179



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	3.2.3
date	2006-09-28T18:11:22
revision	2

sched_exp_time	52500.000000
ontime	53287.637126505
ontime4	53287.637146443
ontime5	53287.637146443
ontime6	53286.155066431
ontime7	53287.637126505
ontime8	53286.896086514
ontime9	53286.89612636
l1events	669449

2.1.4 Events

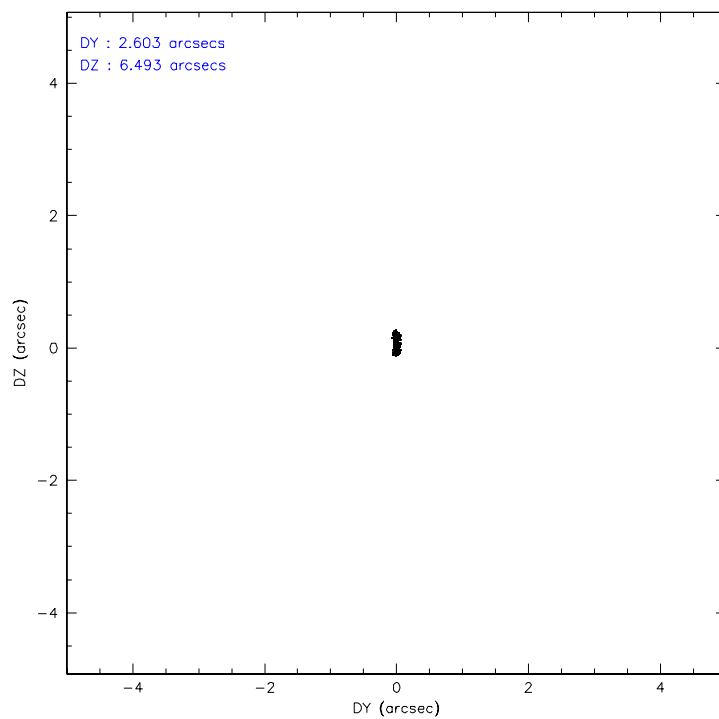
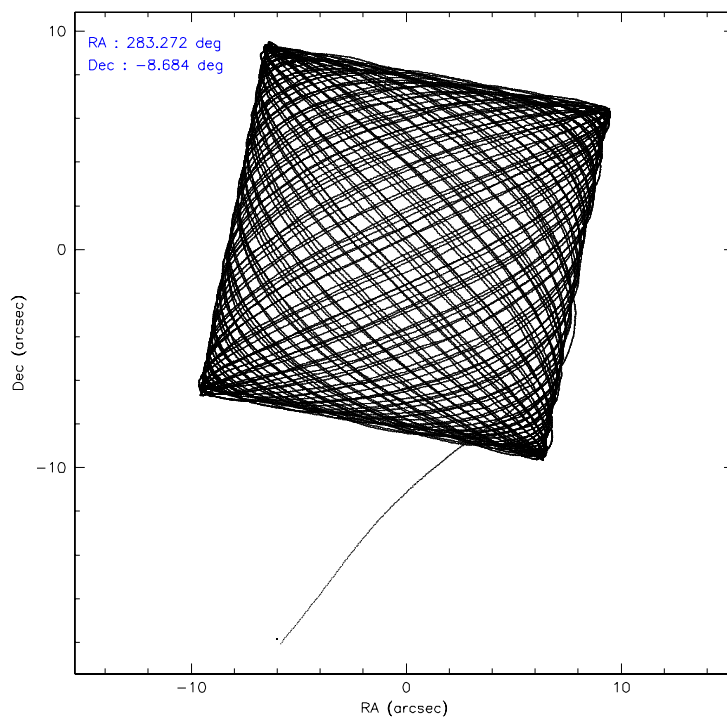
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	68576	83838	138013	234134	87364	57524
rejected events	59605	38733	53342	52456	65603	48964
rejected %	86%	46%	38%	22%	75%	85%

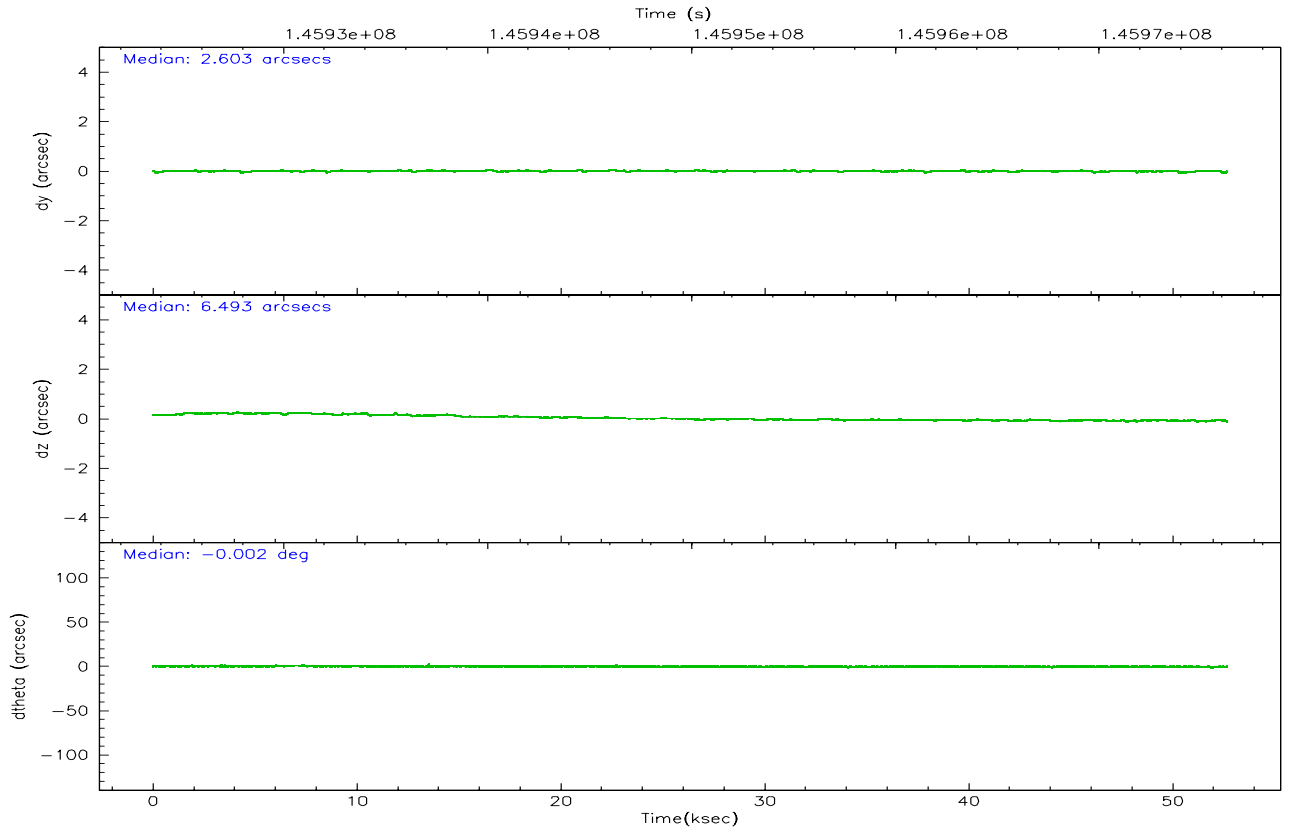
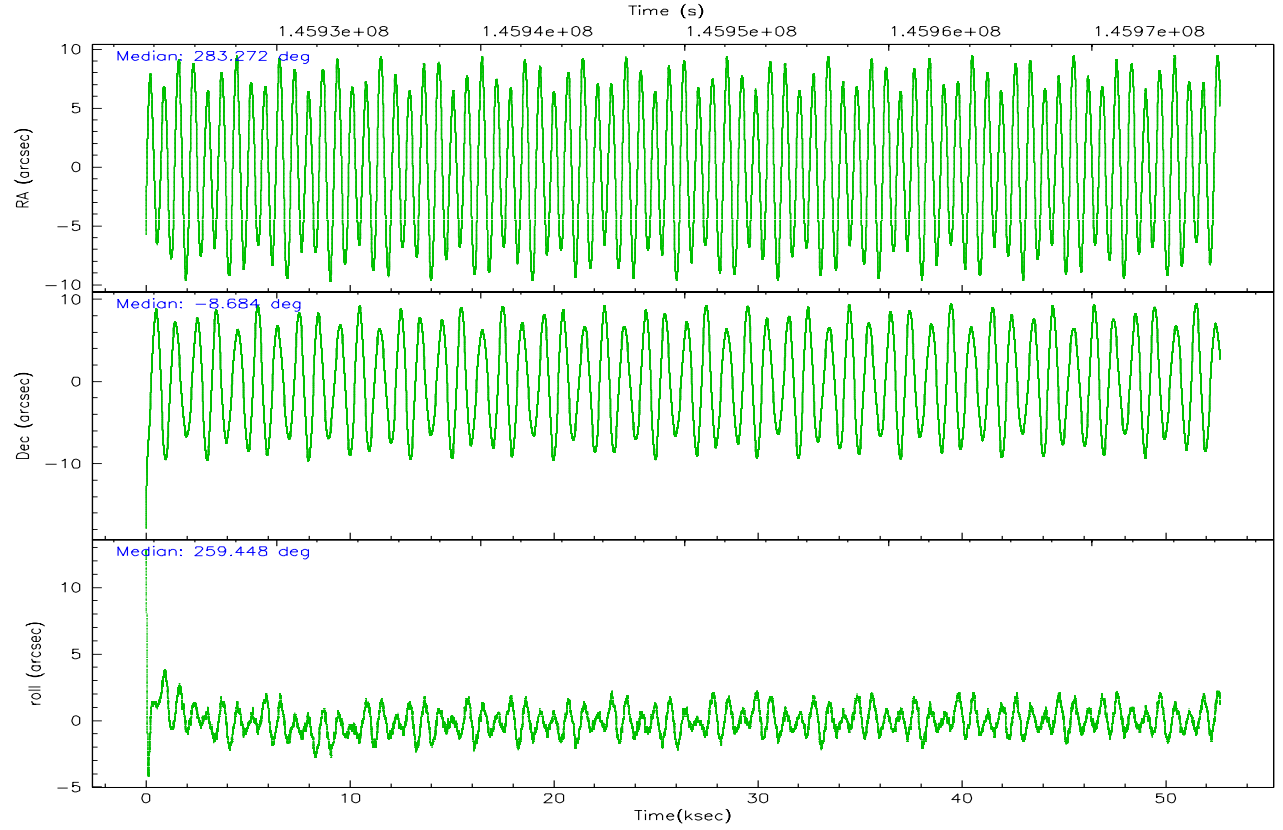
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	4757	10302	65315	34211	9710	4466
	6%	12%	47%	14%	11%	7%
grade 1 events	24	1544	170	912	37	18
	0%	1%	0%	0%	0%	0%
grade 2 events	1680	12067	9559	45951	3608	1413
	2%	14%	6%	19%	4%	2%
grade 3 events	1140	2970	3807	19354	2423	1248
	1%	3%	2%	8%	2%	2%
grade 4 events	1084	3186	3776	19232	2247	1128
	1%	3%	2%	8%	2%	1%
grade 5 events	1706	4944	1877	9795	2278	1788
	2%	5%	1%	4%	2%	3%
grade 6 events	1245	18104	3293	64544	4763	1185
	1%	21%	2%	27%	5%	2%
grade 7 events	56940	30721	50216	40135	62298	46278
	83%	36%	36%	17%	71%	80%

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	LETG	LETG	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	283.262761	283.2722775424266	Subarray requested	CUSTOM	1/8
Pointing Dec	-8.659031	-8.684589915834806	Subarray start row	113	113
Pointing Roll	259.294263	259.4523234044523	Subarray row count	128	128
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.7
SIM translation stage pos (mm)	-182.132523	-182.1344861297048			
SIM translation stage offset (mm)	-8	-7.998036453302973			
Observation start time	145923771.184000	145922672.25062			
Observation start date	2002-08-16T22:21:47	2002-08-16T22:04:32			
Observation end time	145976271.184000	145976825.56535			
Observation end date	2002-08-17T12:56:47	2002-08-17T13:07:05			
Read mode	TIMED	TIMED			

2.3 Aspect



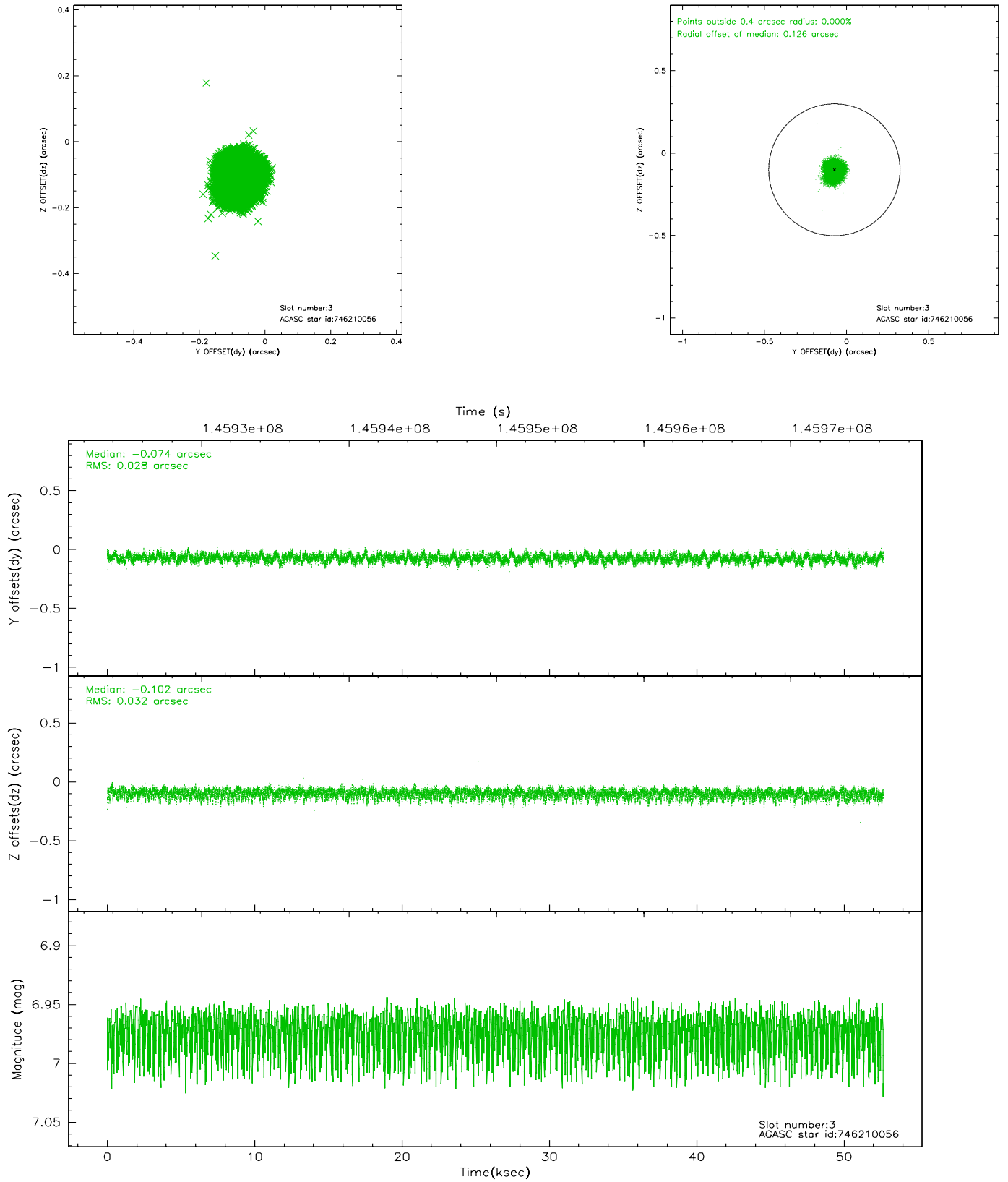


Slot Statistics

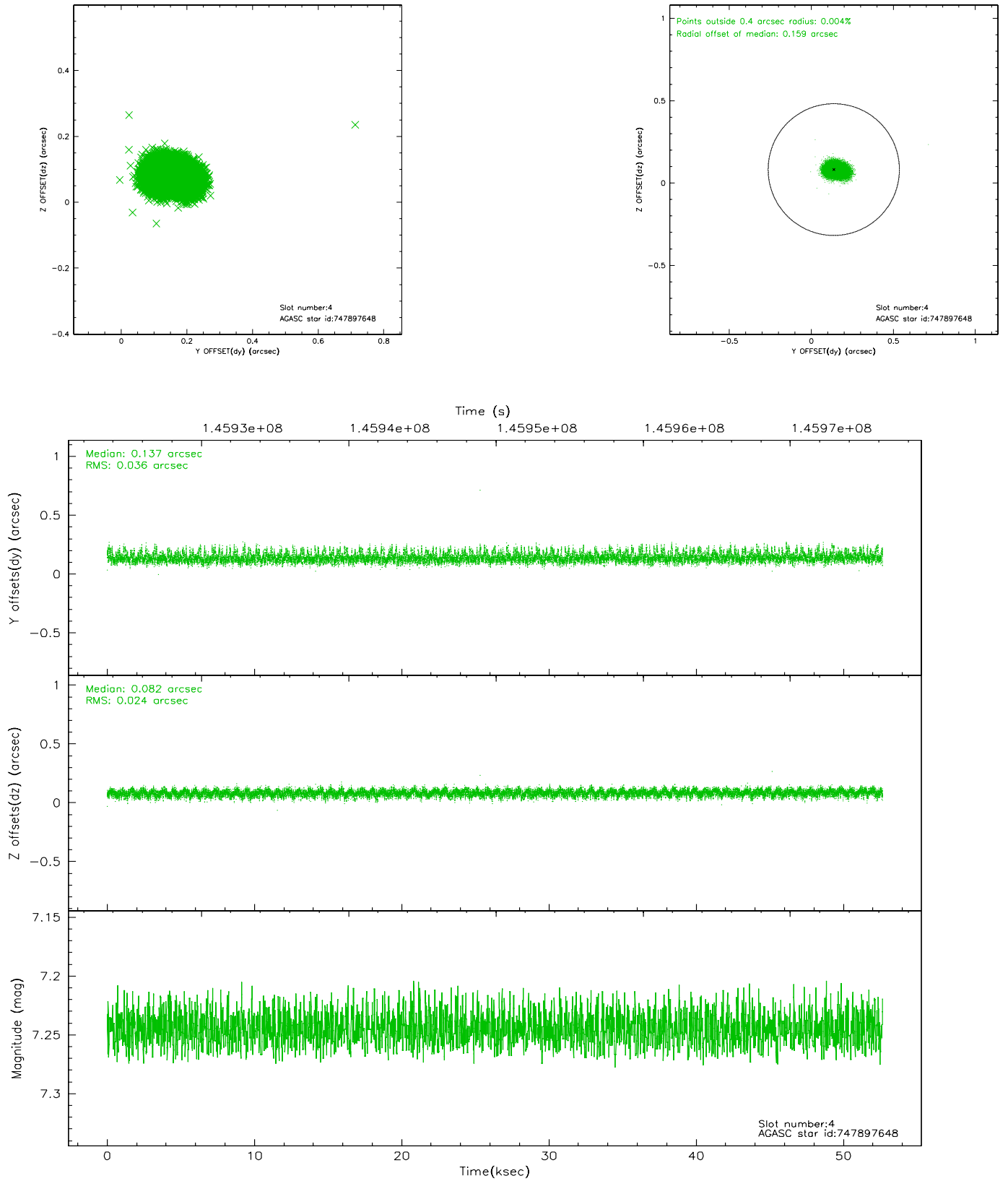
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.35	12844	-0.071	0.032	0.010	0.016	0.000000	0.000000	58.40	-2021.48
1	FID	ACIS-S-4	7.18	12844	0.029	0.023	0.008	0.014	0.000000	0.000000	2158.72	15.97
2	FID	ACIS-S-5	7.23	12845	0.014	-0.046	0.007	0.011	0.000000	0.000000	-1807.52	9.70
3	GUIDE	746210056	6.97	25693	-0.074	-0.102	0.046	0.073	282.806936	-8.010412	-1990.56	-2029.95
4	GUIDE	747897648	7.24	25692	0.137	0.082	0.043	0.080	283.483122	-9.370309	2371.87	1245.67
5	GUIDE	747978808	7.90	25692	0.043	-0.039	0.060	0.097	283.772244	-8.811168	203.76	1883.56
6	GUIDE	746239504	8.38	25685	0.082	0.114	0.058	0.093	282.830293	-9.257290	2403.77	-1108.71
7	GUIDE	746204760	8.59	25685	-0.188	-0.053	0.072	0.113	282.693368	-7.980313	-2021.31	-2447.98

2.4 Star Slots

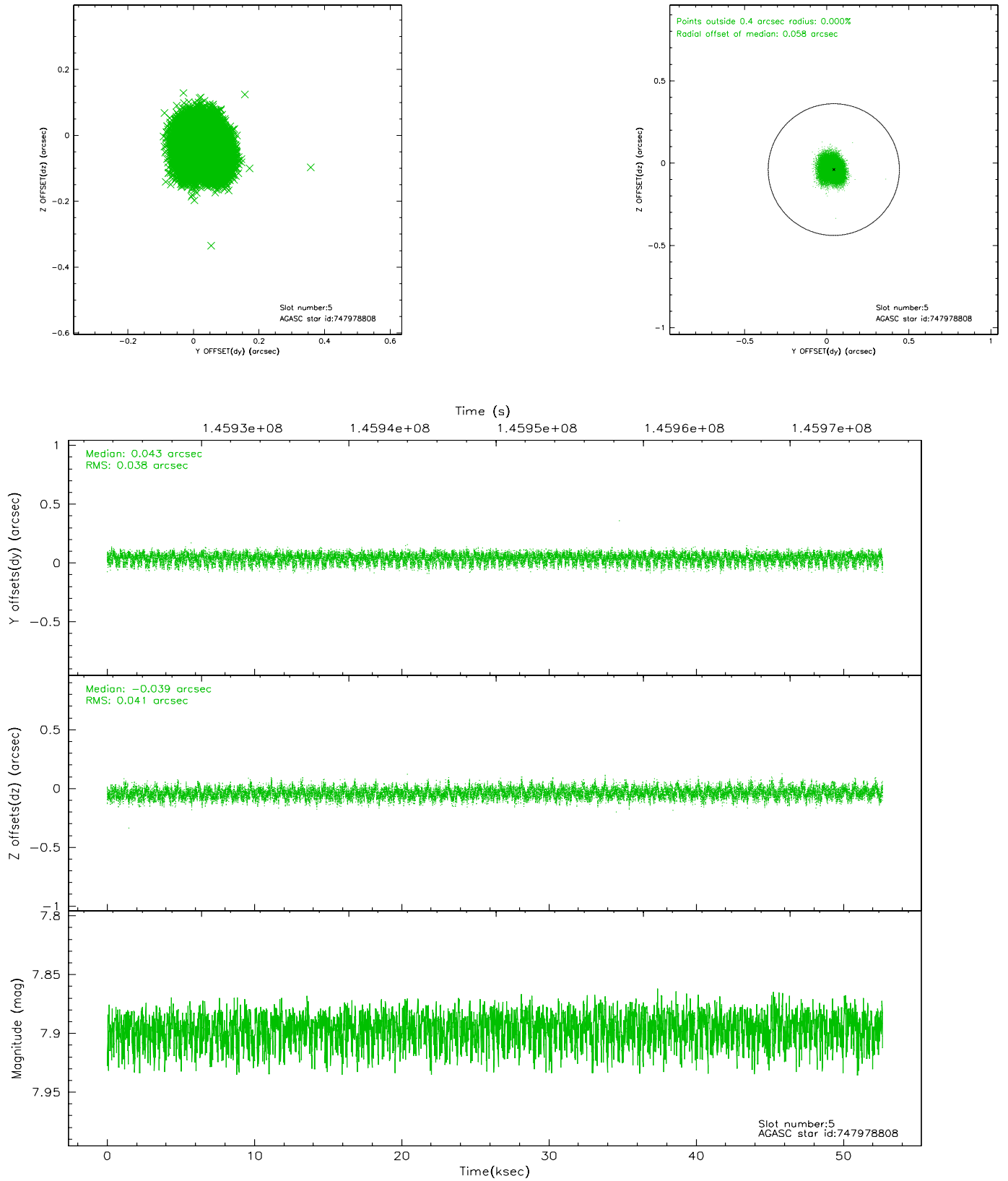
2.4.1 Slot 3



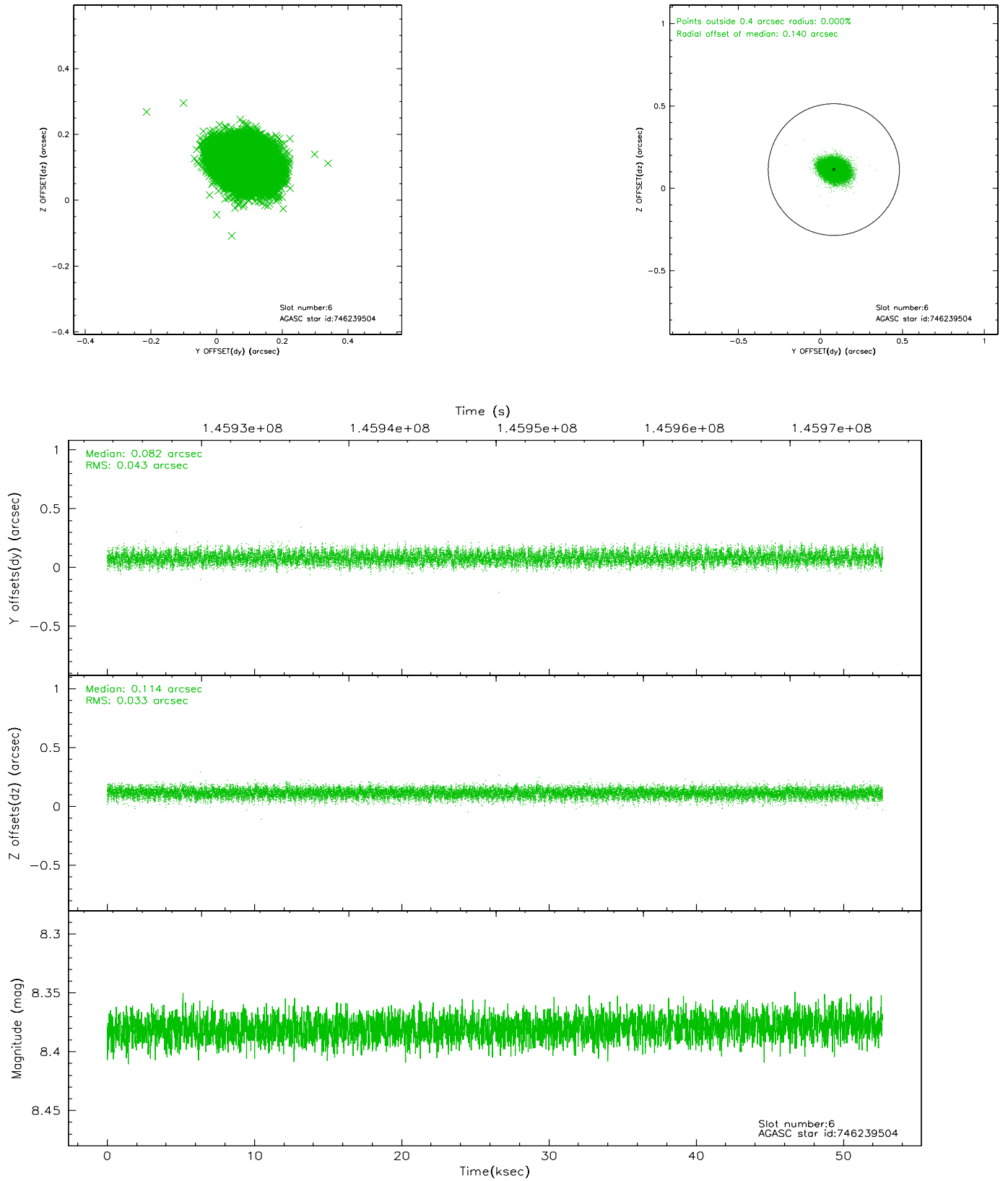
2.4.2 Slot 4



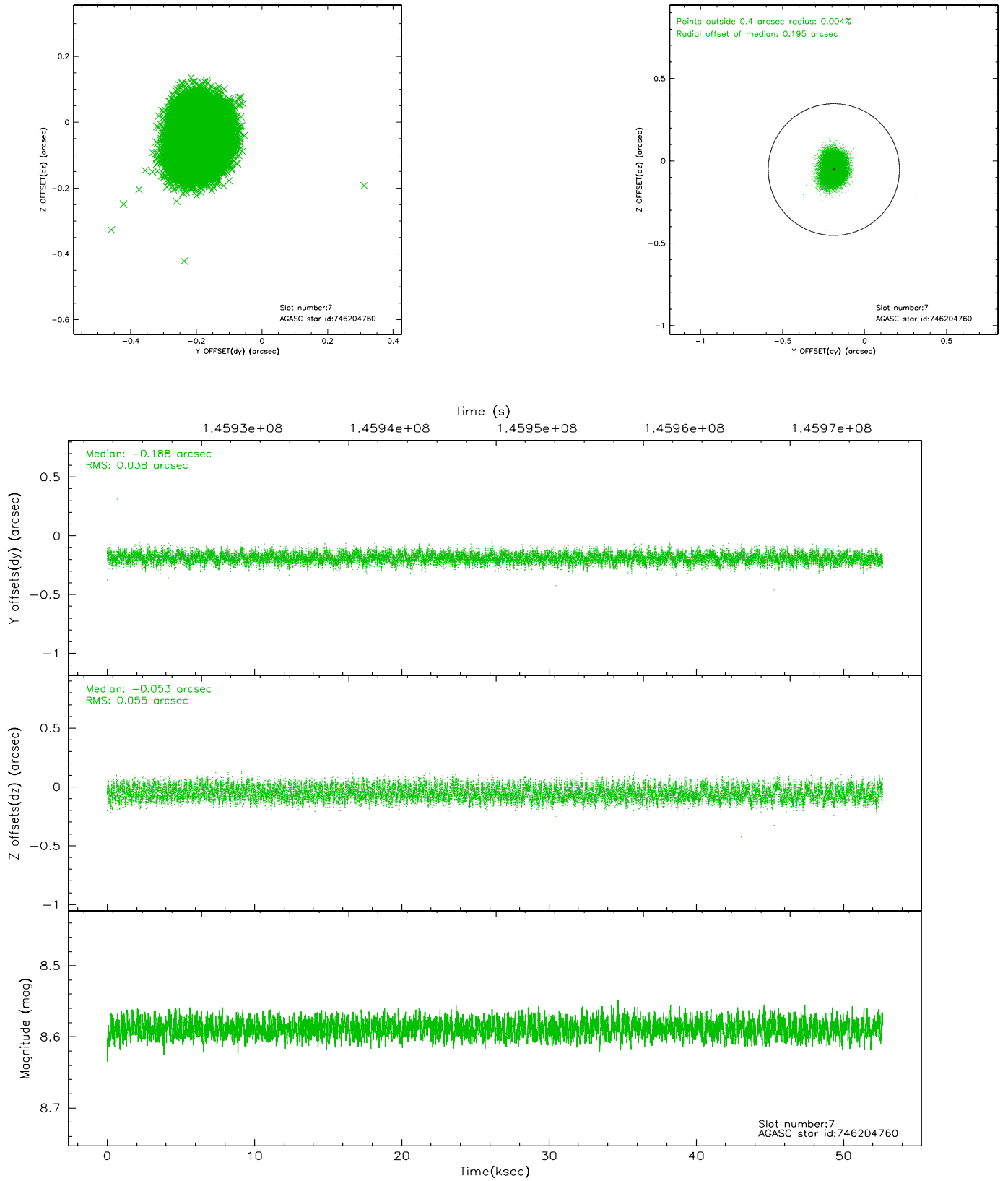
2.4.3 Slot 5



2.4.4 Slot 6

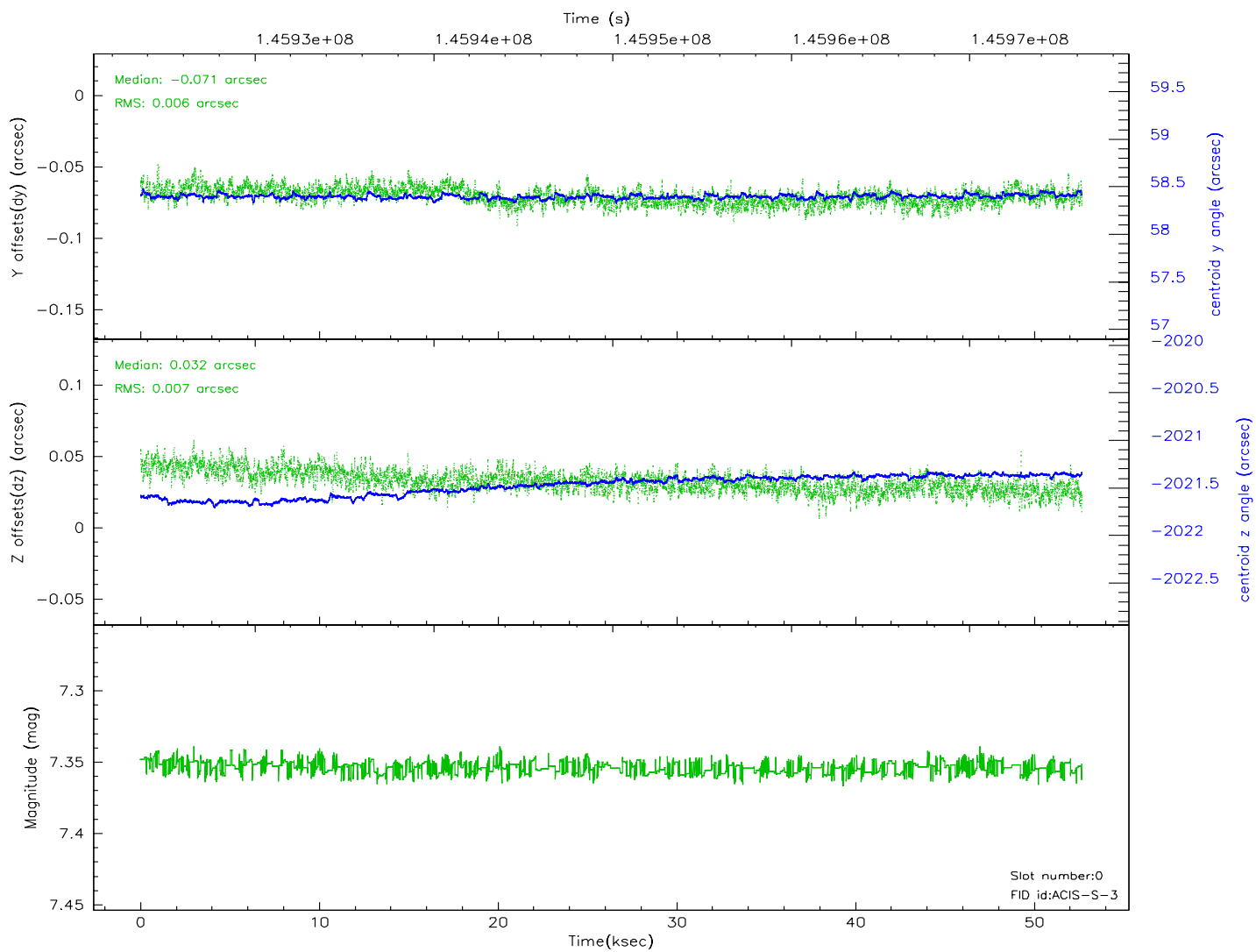
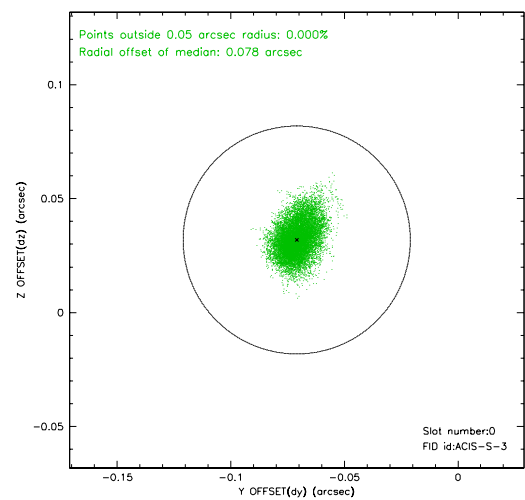
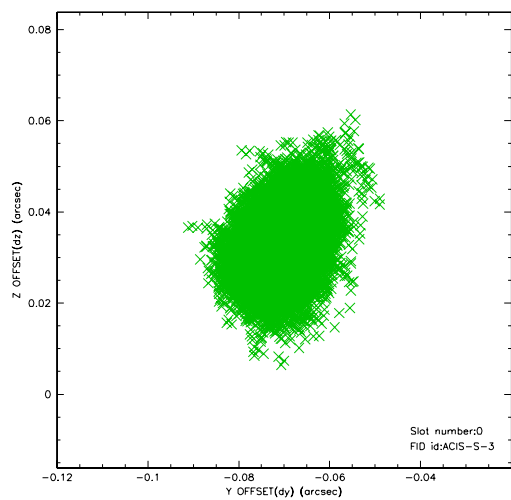


2.4.5 Slot 7

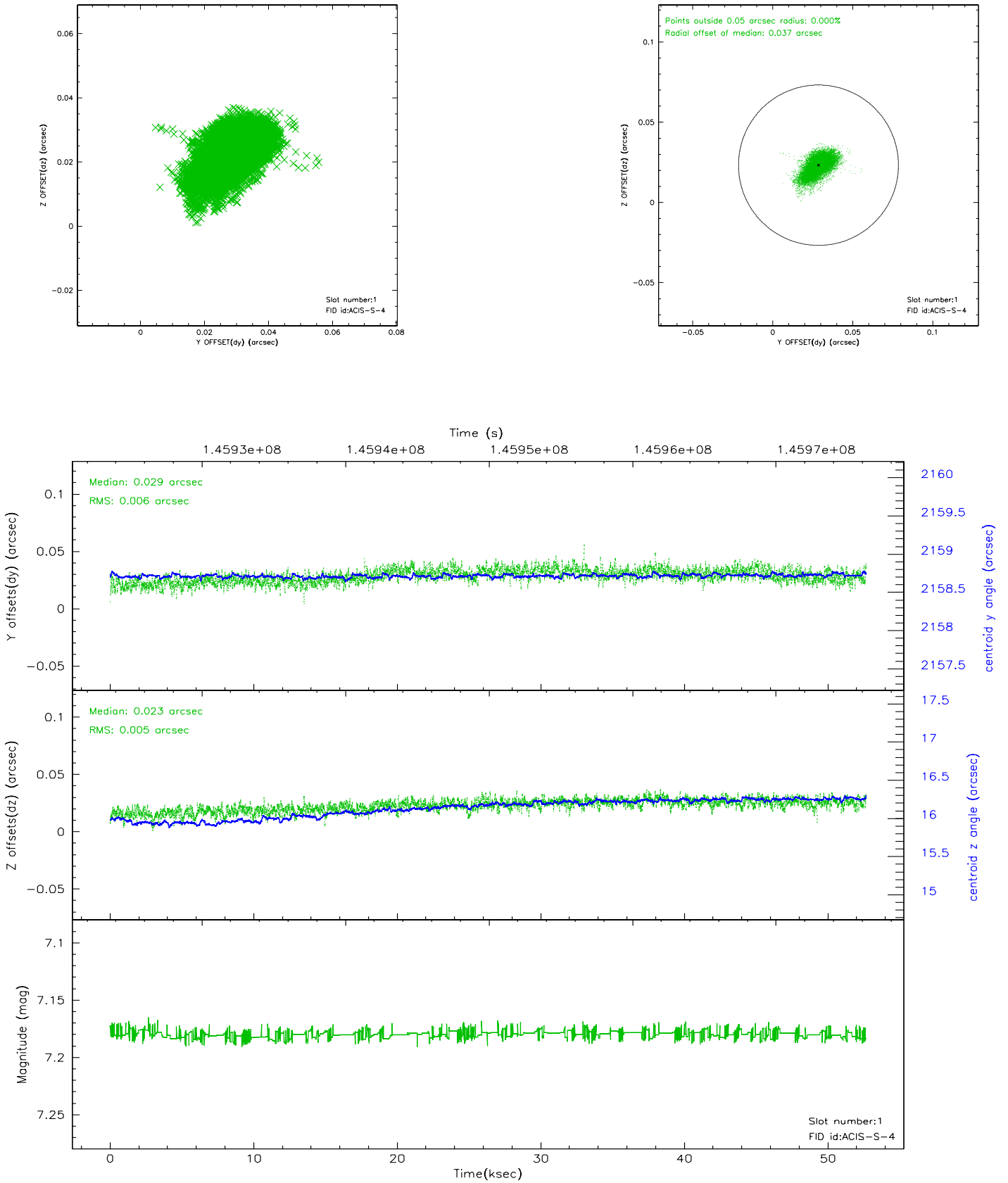


2.5 FID Slots

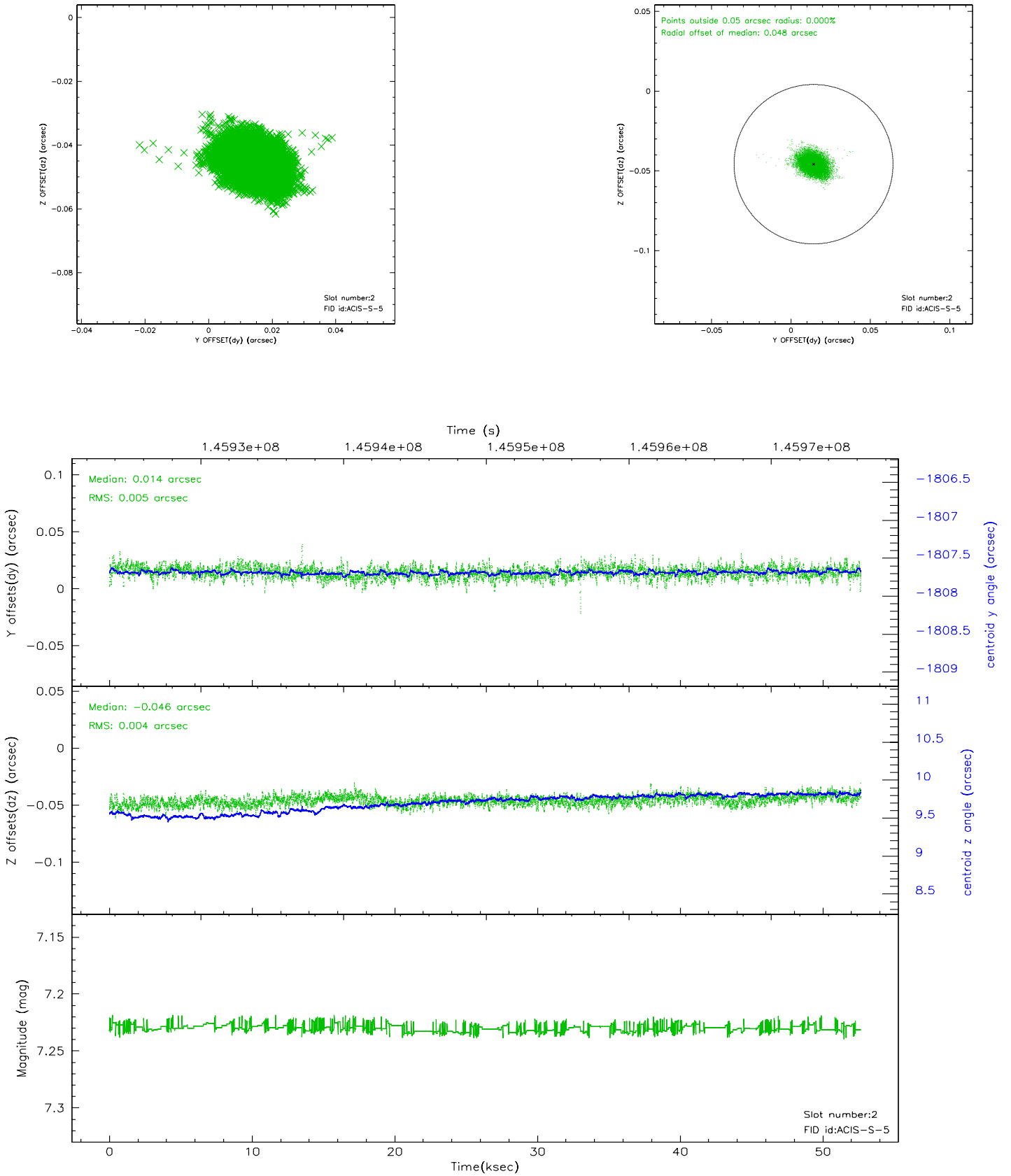
2.5.1 Slot 0



2.5.2 Slot 1

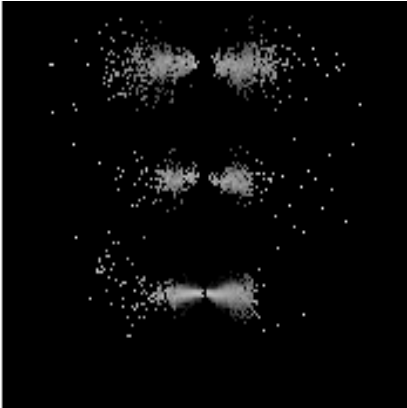


2.5.3 Slot 2

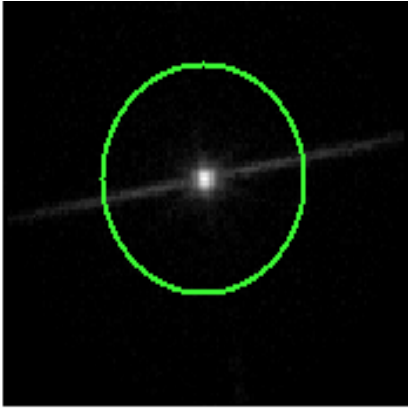


3 Gratings

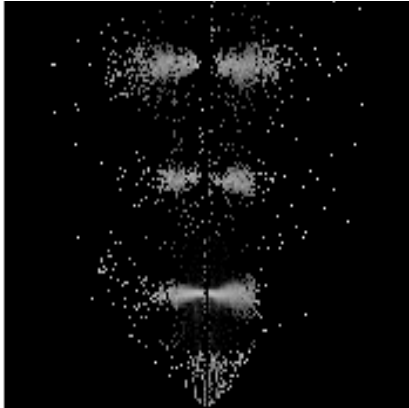
3.1 LETG Arm



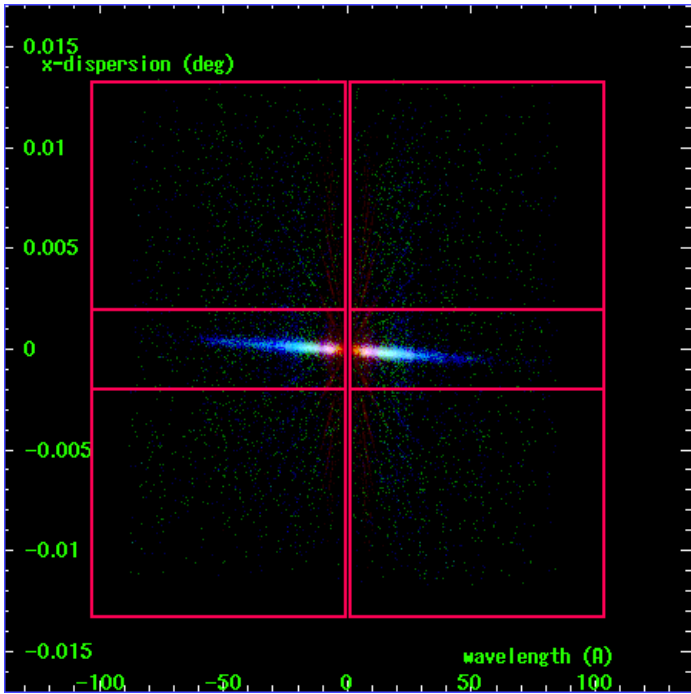
LETG Order Sort 123



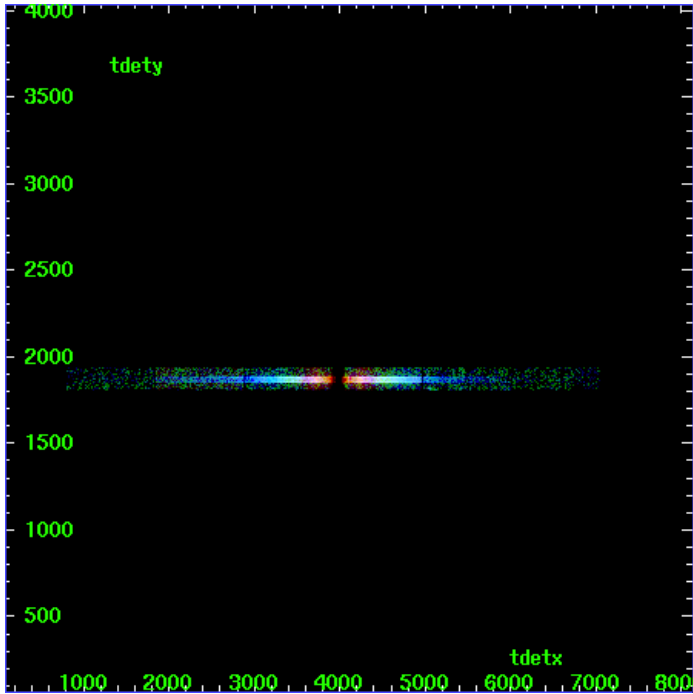
LETG Zero Order



LETG Order Sort ALL

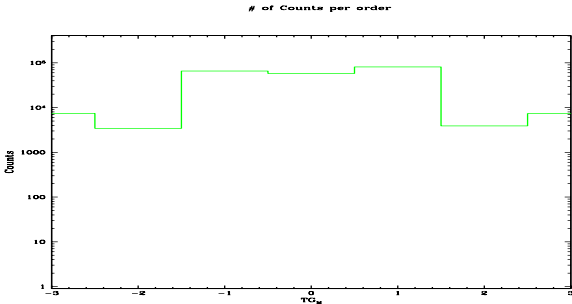


Spot Image LETG

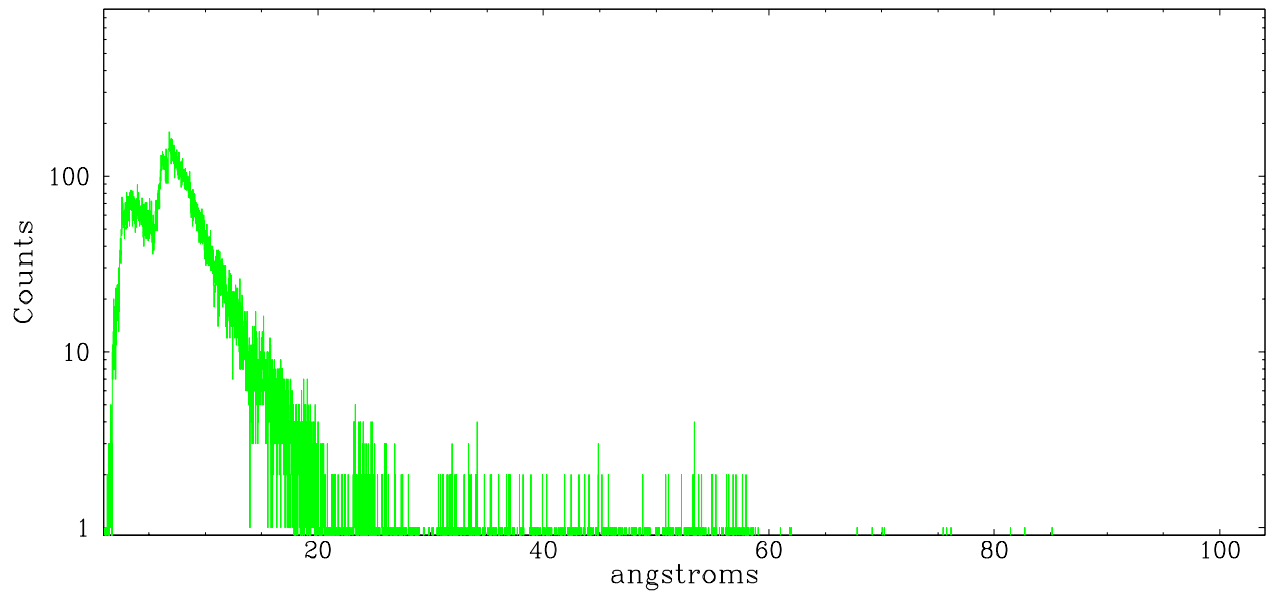


Full Detector LETG

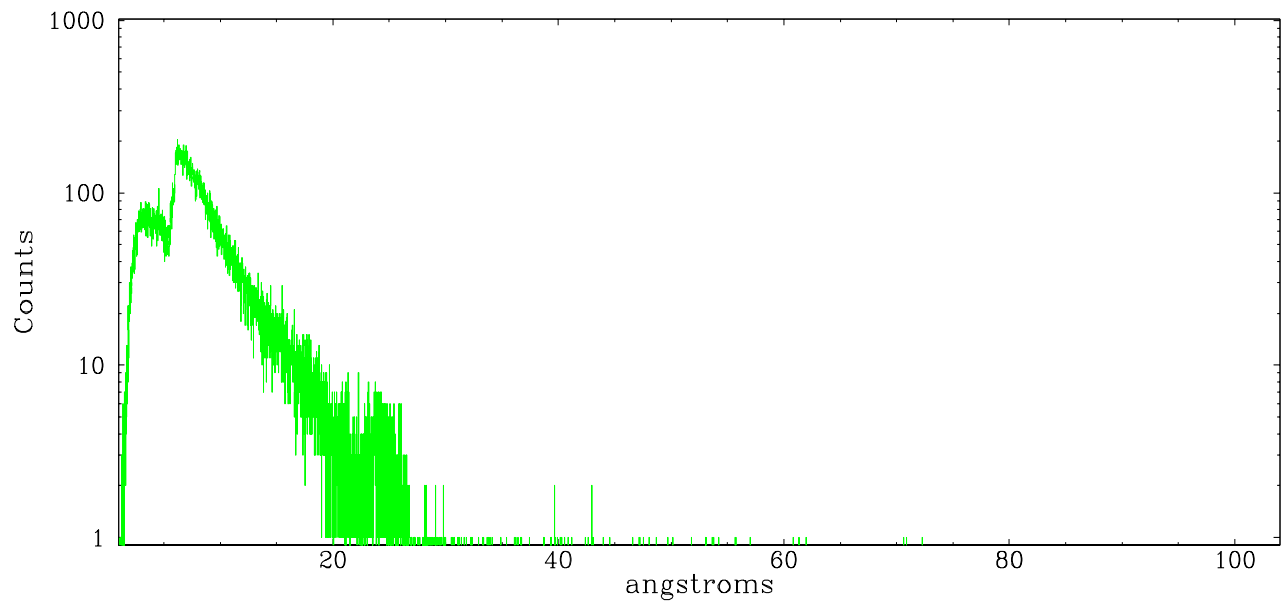
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	7425	3440	65949	58183	81187	3912	7381



leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	52.666

A.2 Comments