

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3761 - L2 Version 001
Chandra X-Ray Center

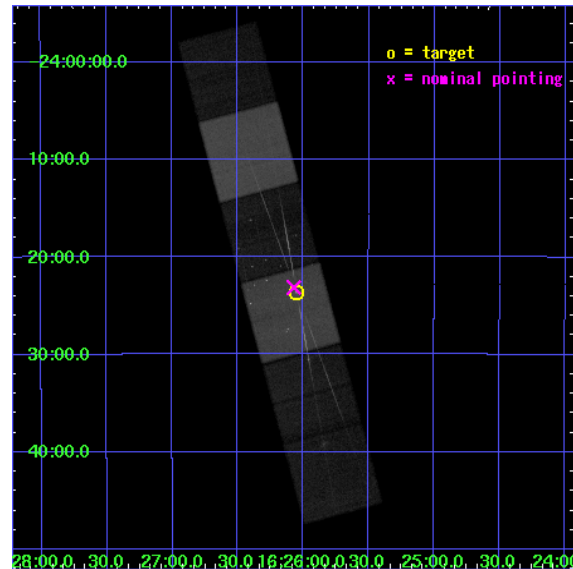
L2 Processing Date : Aug 1 2006

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1 Front

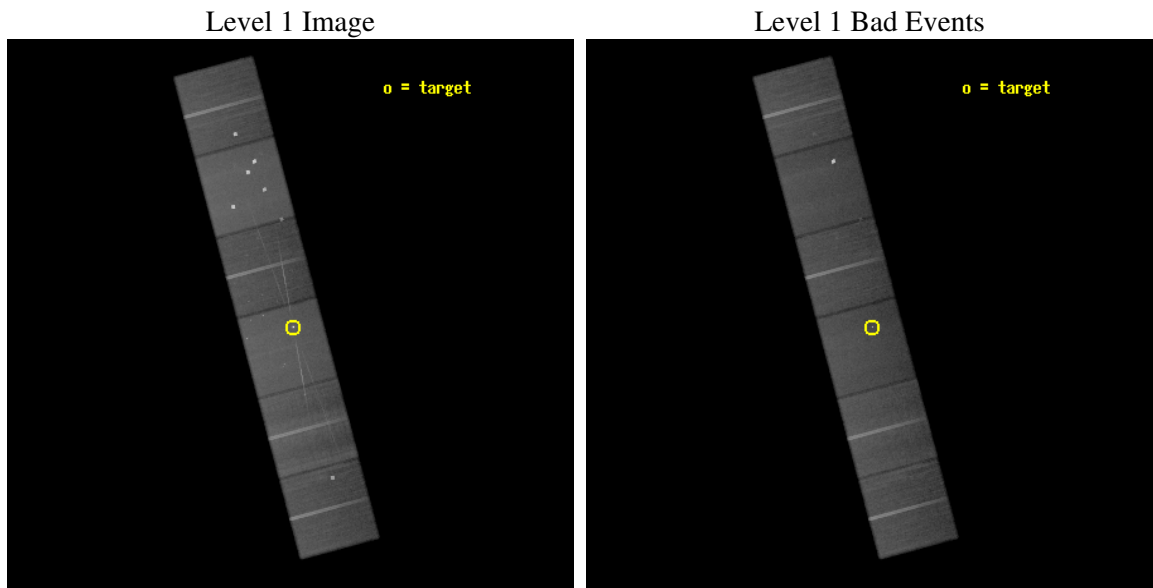
seq_num	200231
obs_id	3761
title	CONSTRAINING THE T TAURI STAR X-RAY EMISSION MECHANISM: HIGH-RESOLUTION SPECTROSCOPY OF THE YOUNG STAR DOAR 21
observer	Dr. Eric Jensen
object	DOAR 21
dtcycle	0
cycle	P
ra_targ	246.513333
dec_targ	-24.394444
ra_nom	246.51781829646
dec_nom	-24.385693474002
roll_nom	75.033273835041
revision	2
ontime	92290.42108047
livetime	91121.784198129
ontime4	92092.72102505
ontime5	92283.938980699
ontime6	92167.263581425
ontime7	92290.42108047
ontime8	92108.926035941
ontime9	92105.684926331
l2events	906398



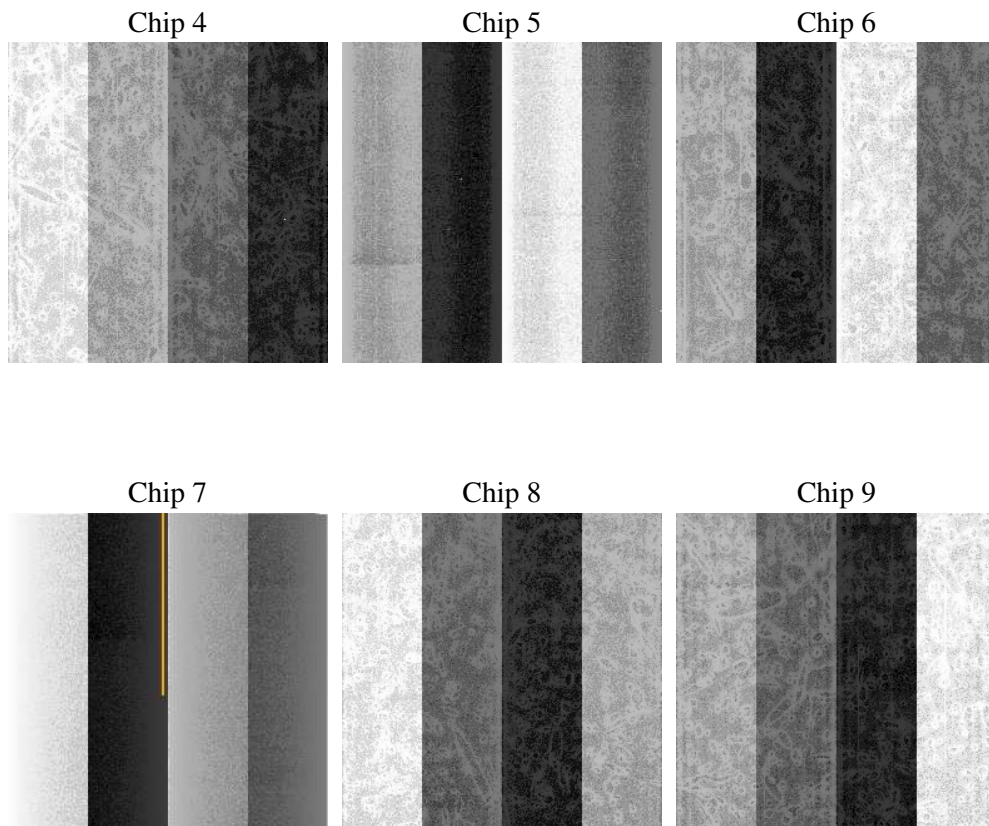
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldsver	3.2.2
date	2006-08-01T12:03:59
revision	2

sched_exp_time	92241.235000
ontime	92297.447327197
ontime4	92099.747251868
ontime5	92290.965227425
ontime6	92174.289808244
ontime7	92297.447327197
ontime8	92115.952262759
ontime9	92112.711173058
l1events	4221439

2.1.4 Events

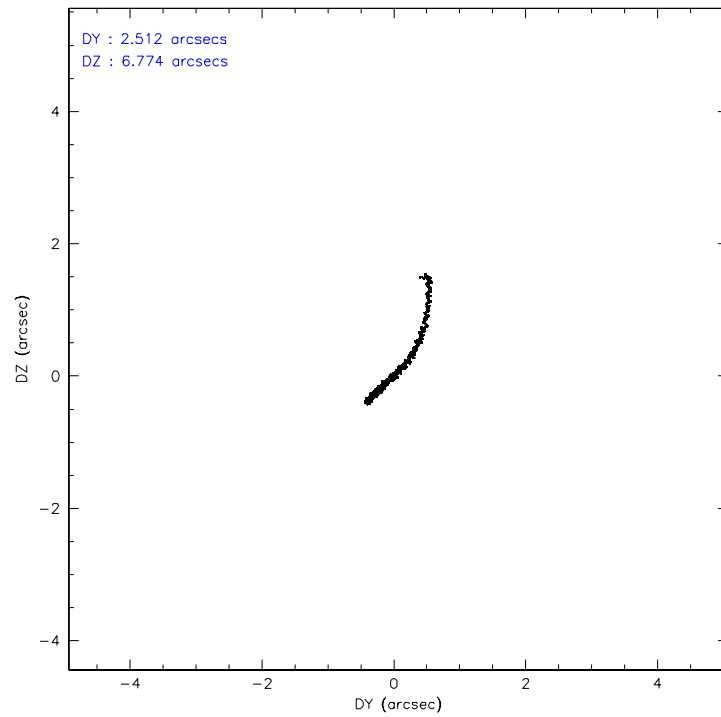
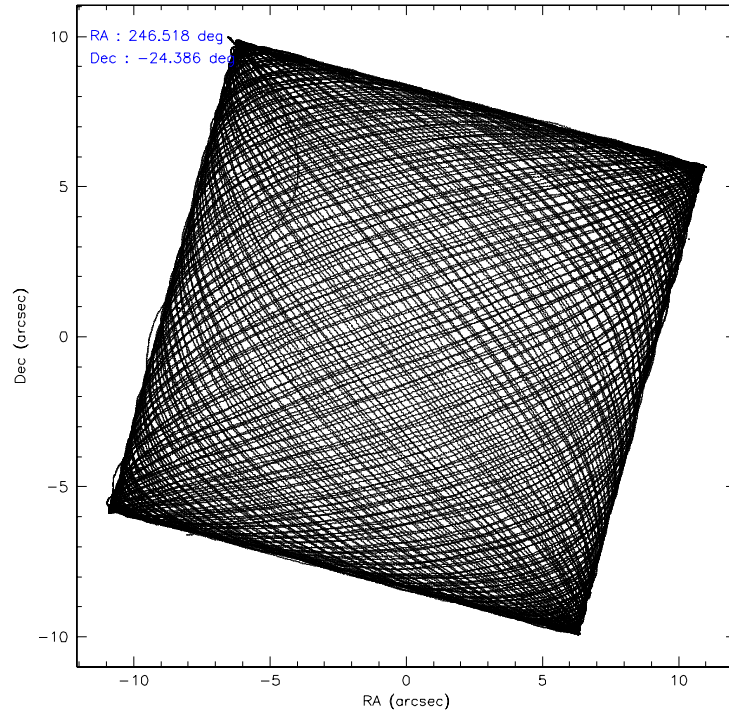
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	644694	908309	586645	783663	718250	579878
rejected events	557636	486905	505931	469702	567599	501526
rejected %	86%	53%	86%	59%	79%	86%

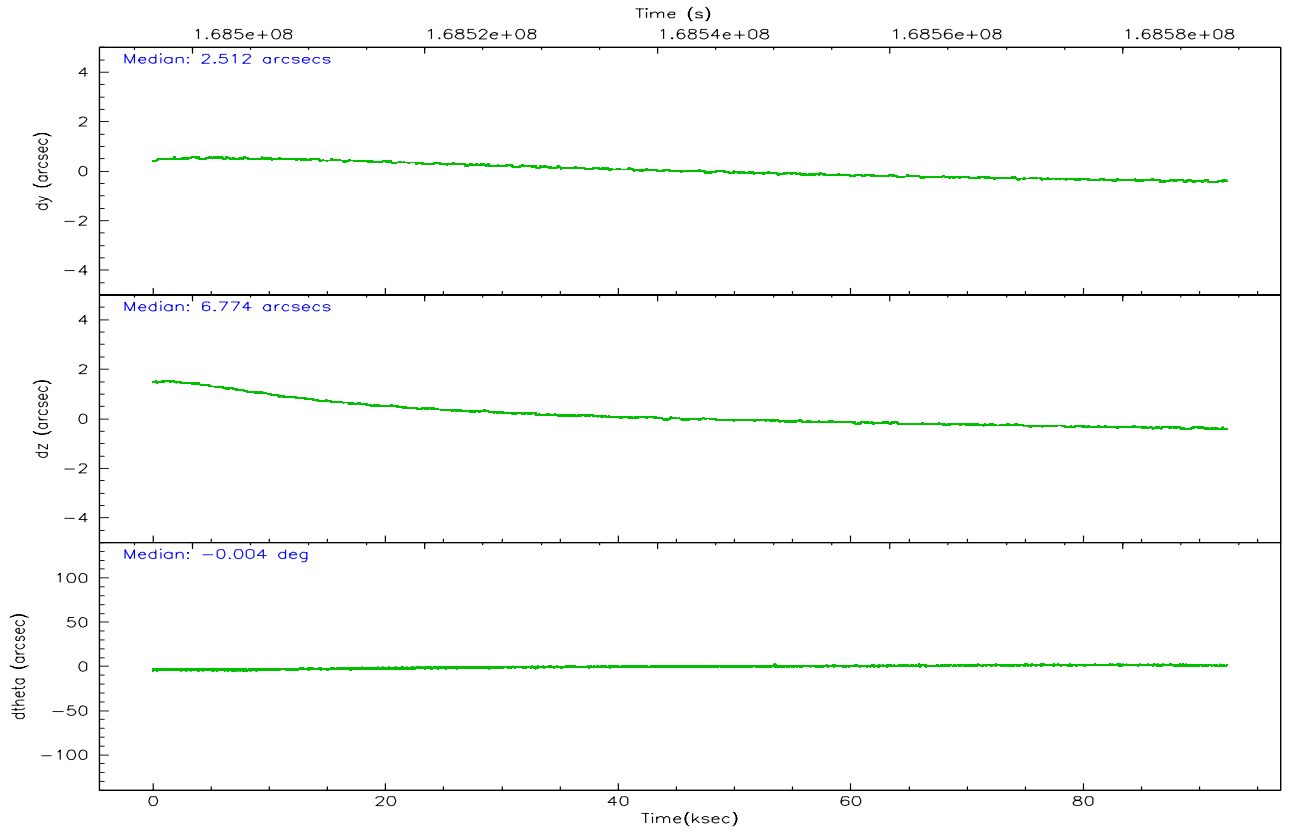
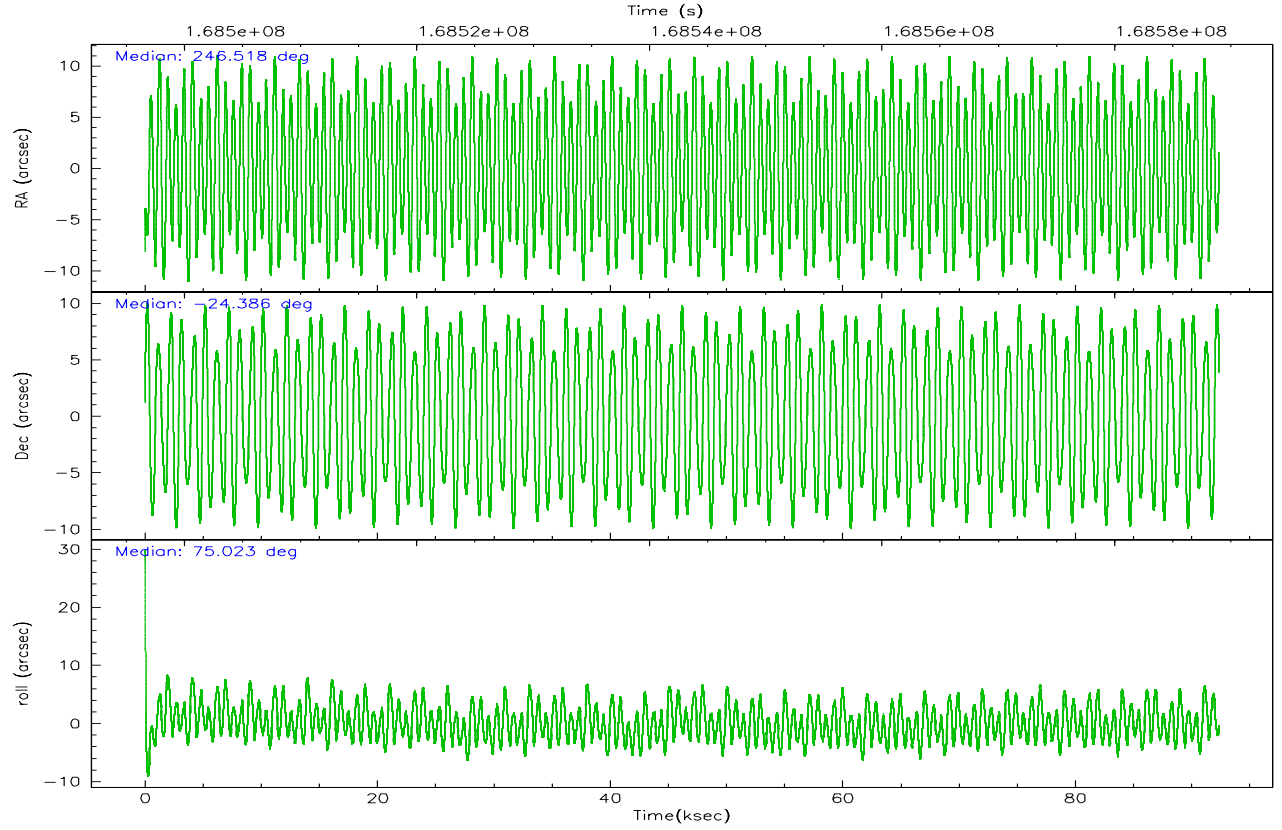
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	48103	76965	37014	20501	50670	37914
	7%	8%	6%	2%	7%	6%
grade 1 events	644	1814	327	555	486	342
	0%	0%	0%	0%	0%	0%
grade 2 events	14147	119270	15298	78086	32000	13388
	2%	13%	2%	9%	4%	2%
grade 3 events	7114	9009	7264	17390	15680	7172
	1%	0%	1%	2%	2%	1%
grade 4 events	6803	7944	7040	16616	14738	6655
	1%	0%	1%	2%	2%	1%
grade 5 events	24256	50369	25727	51016	33825	27258
	3%	5%	4%	6%	4%	4%
grade 6 events	10935	208288	14129	181388	37692	13310
	1%	22%	2%	23%	5%	2%
grade 7 events	532692	434650	479846	418111	533159	473839
	82%	47%	81%	53%	74%	81%

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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	246.525981	246.5178182964635	Alternating exposures requested	N	N
Pointing Dec	-24.411886	-24.38569347400204	Primary exposure time	0.000000	3.2
Pointing Roll	74.880010	75.03327383504109			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	168496750.184000	168495581.94363			
Observation start date	2003-05-05T04:38:06	2003-05-05T04:19:41			
Observation end time	168588991.184000	168589306.4101			
Observation end date	2003-05-06T06:15:27	2003-05-06T06:21:46			
Read mode	TIMED	TIMED			

2.3 Aspect



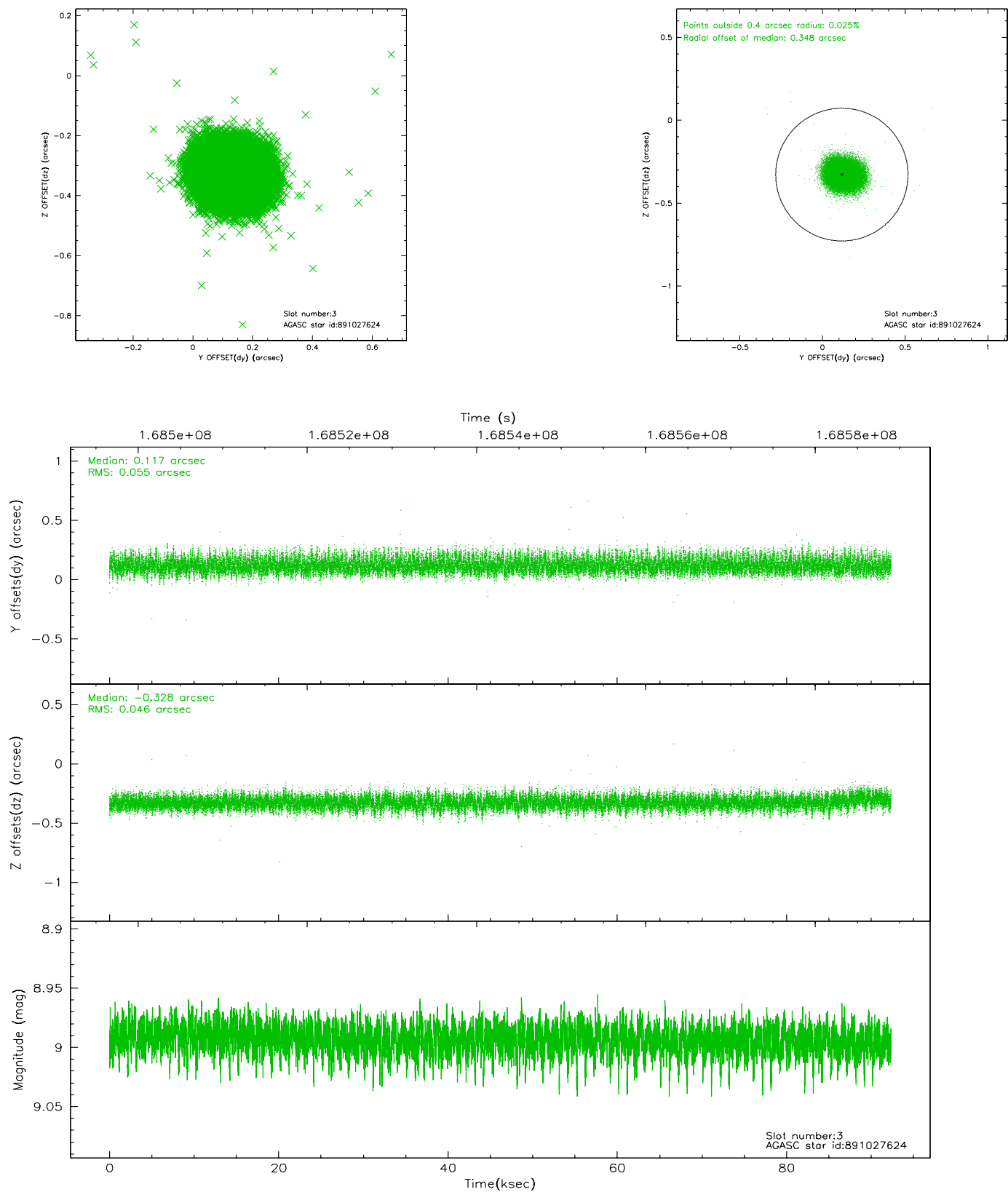


Slot Statistics

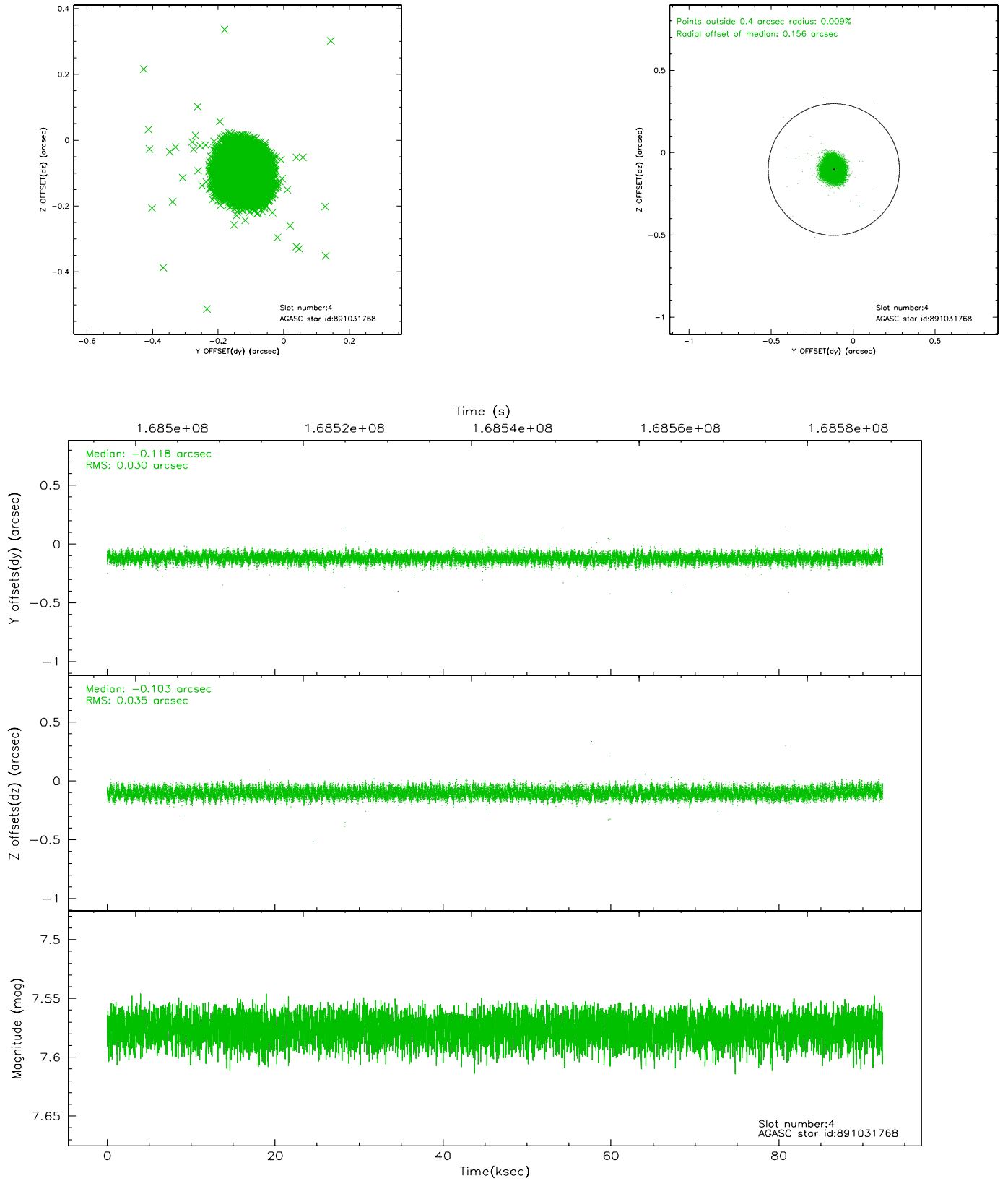
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	22364	-0.036	-0.040	0.013	0.031	0.000000	0.000000	-754.99	-1790.24
1	FID	ACIS-S-4	7.20	22319	-0.014	0.028	0.016	0.023	0.000000	0.000000	2158.32	118.41
2	FID	ACIS-S-5	7.24	22344	0.020	0.022	0.014	0.028	0.000000	0.000000	-1807.90	111.94
3	GUIDE	891027624	8.99	44799	0.117	-0.328	0.075	0.124	245.808309	-24.655846	-1466.40	2035.85
4	GUIDE	891031768	7.58	44817	-0.118	-0.103	0.050	0.078	246.351325	-24.465712	-336.83	502.04
5	GUIDE	891165968	7.74	44796	0.017	0.051	0.071	0.119	247.104842	-24.750274	-686.00	-2145.42
6	GUIDE	891165960	7.62	44800	-0.088	0.259	0.067	0.110	247.245842	-24.537990	170.47	-2395.23
7	GUIDE	891028200	9.66	44769	0.067	0.126	0.095	0.158	246.880837	-25.150608	-2266.95	-1810.29

2.4 Star Slots

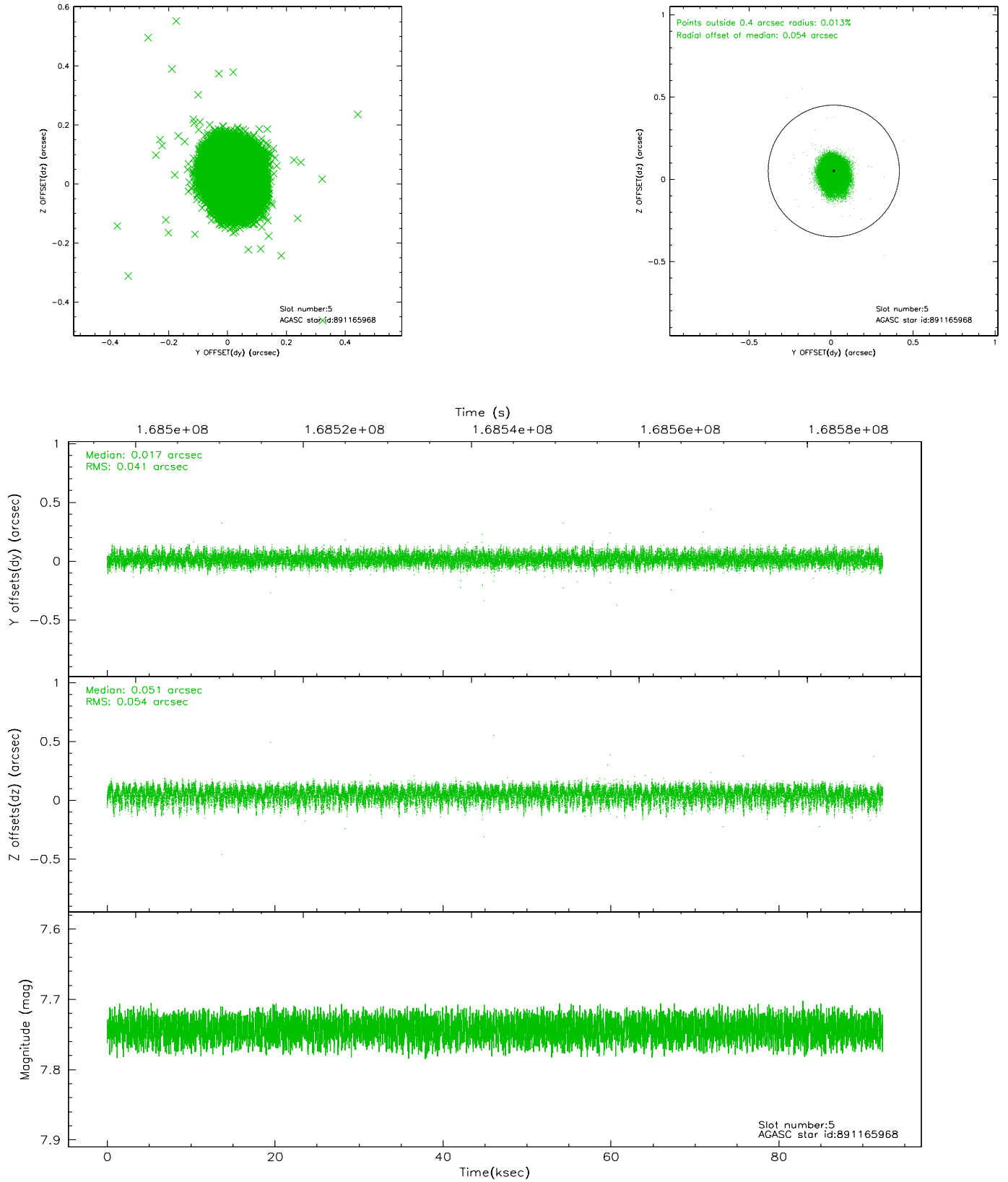
2.4.1 Slot 3



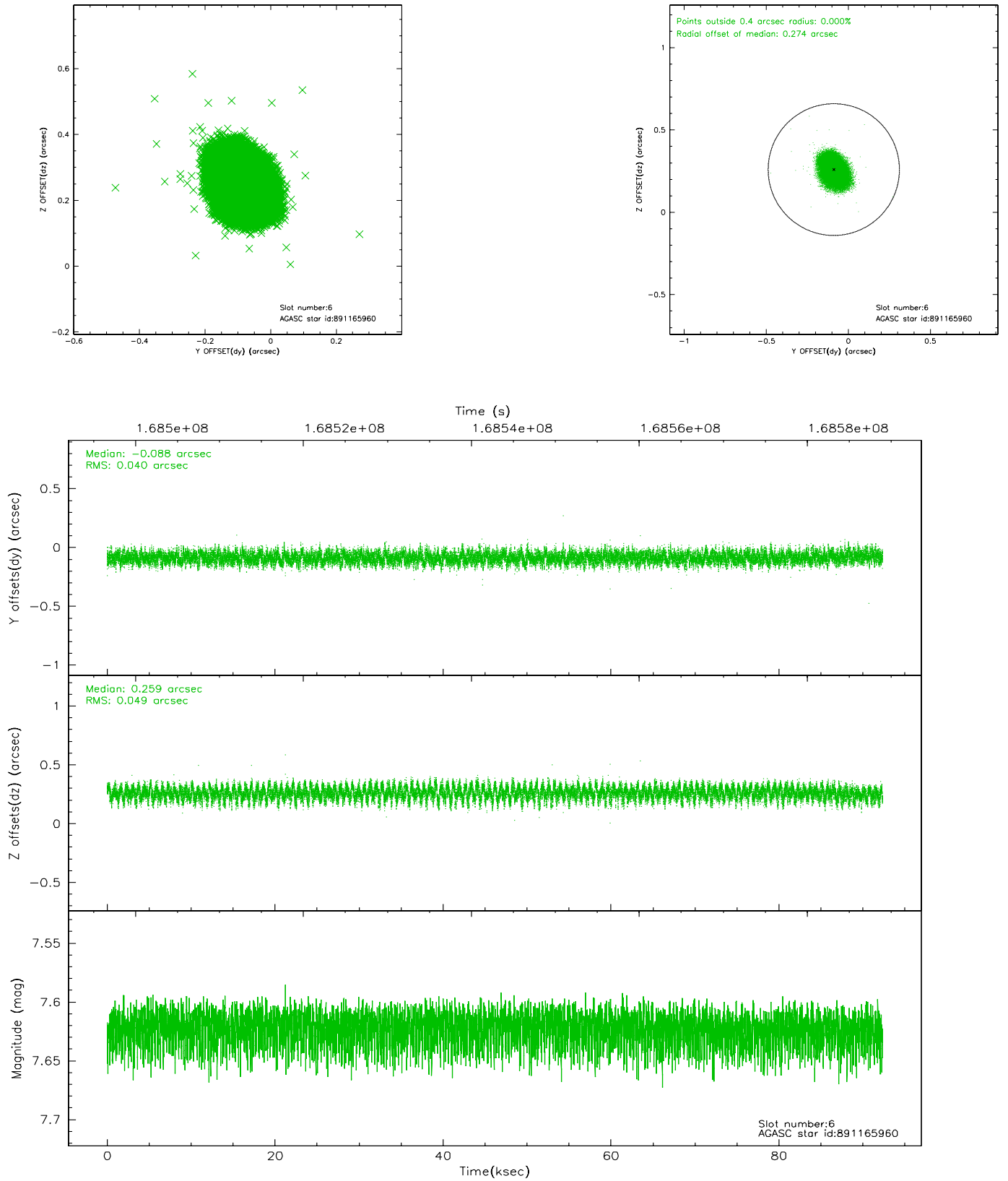
2.4.2 Slot 4



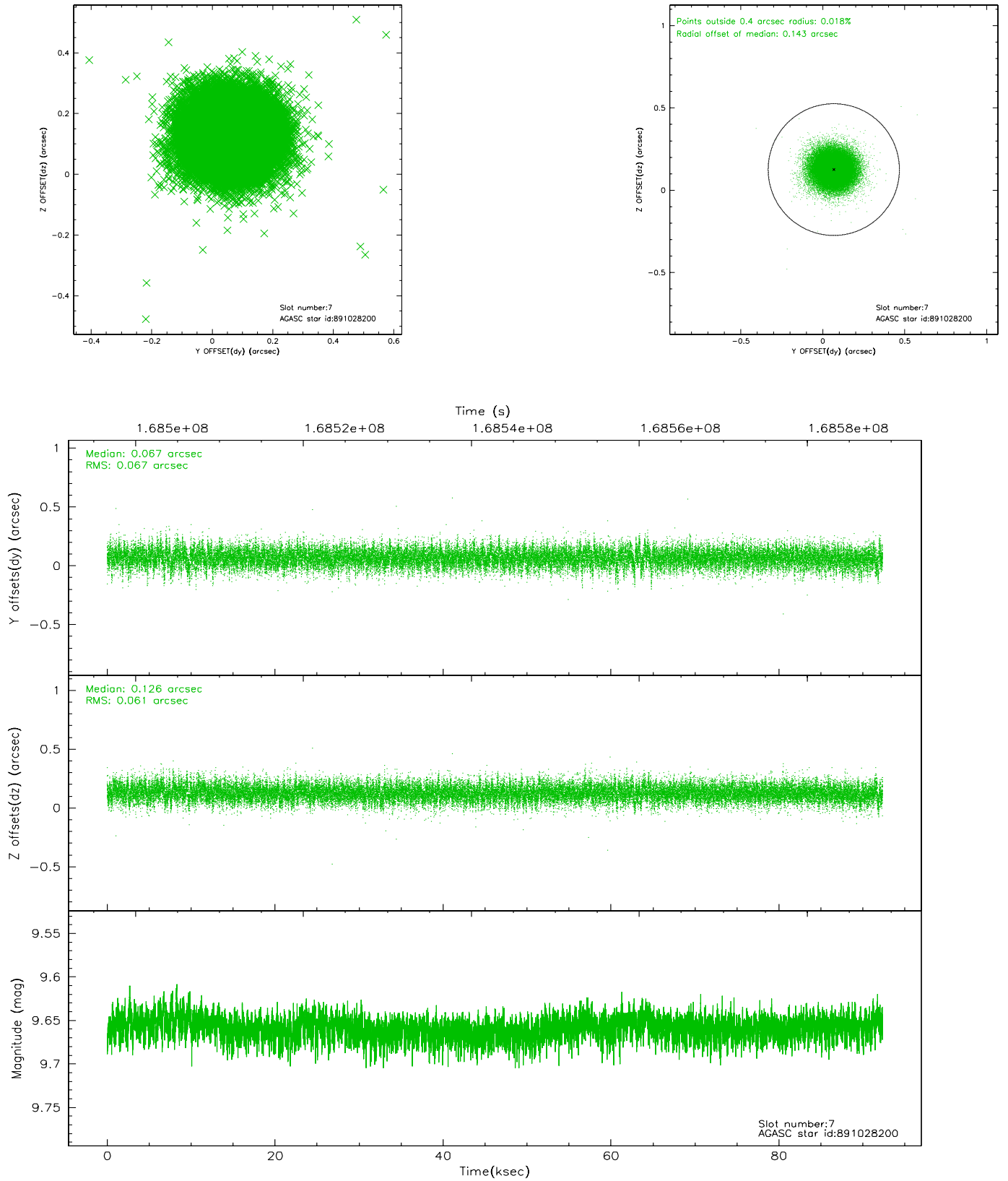
2.4.3 Slot 5



2.4.4 Slot 6

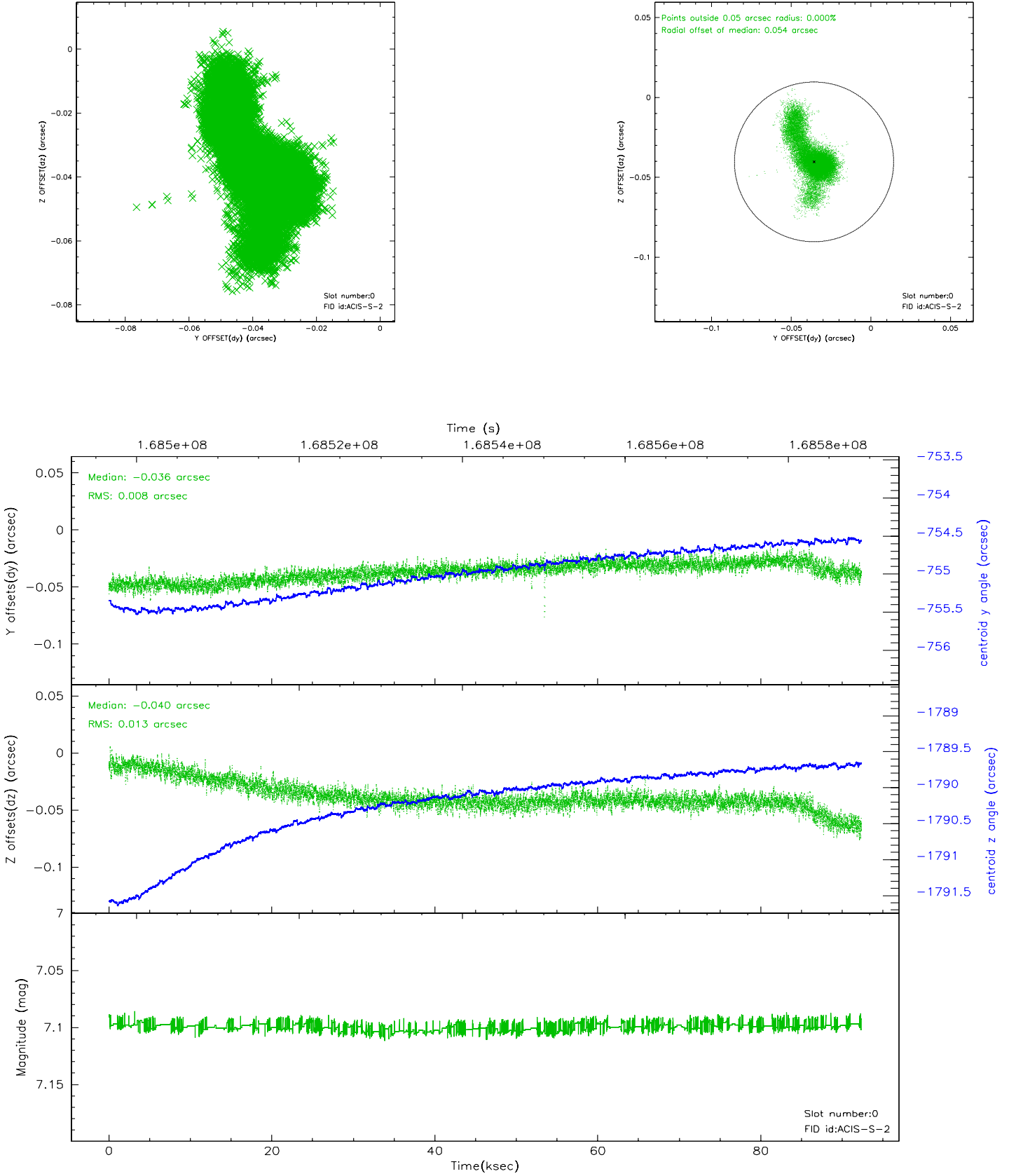


2.4.5 Slot 7

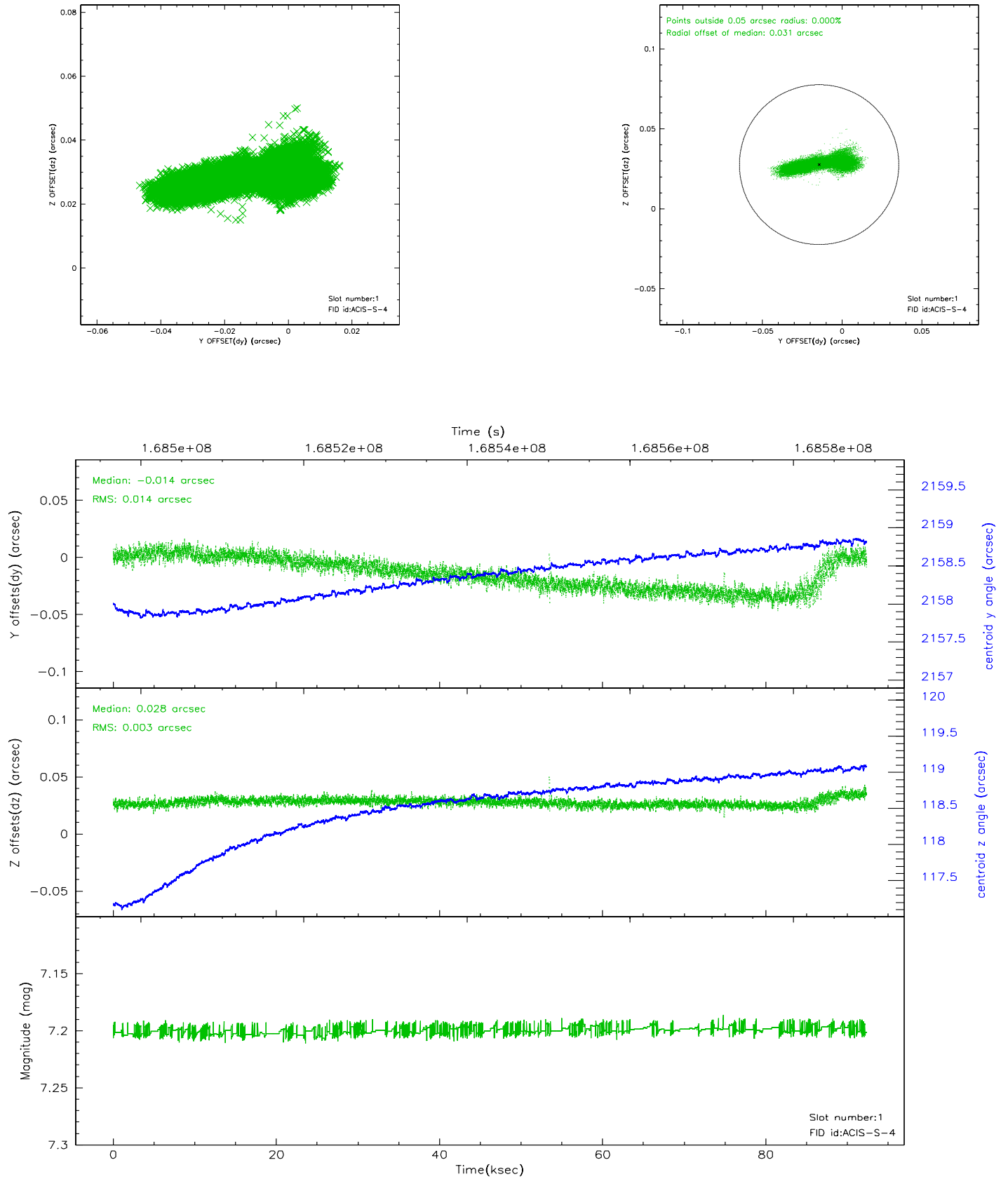


2.5 FID Slots

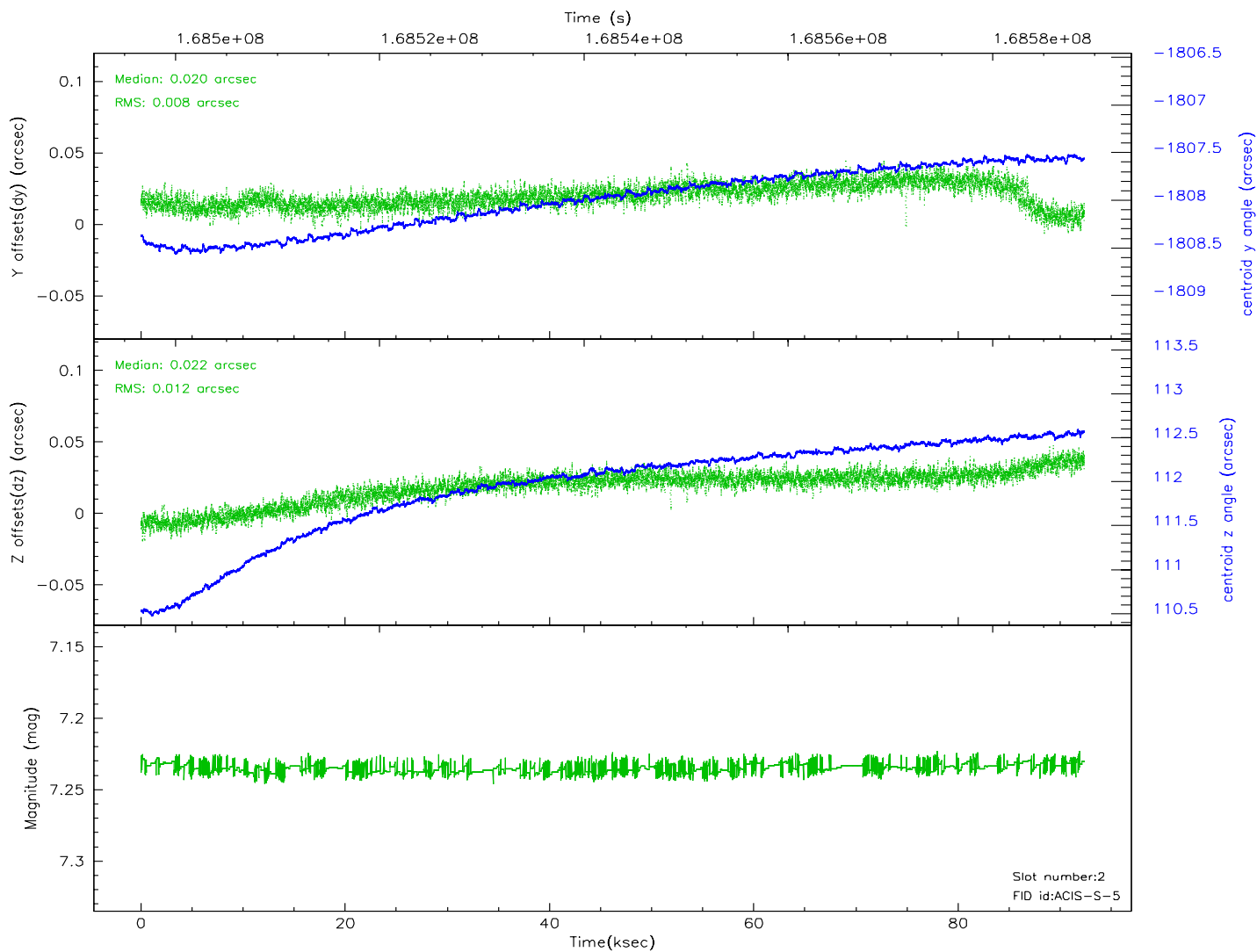
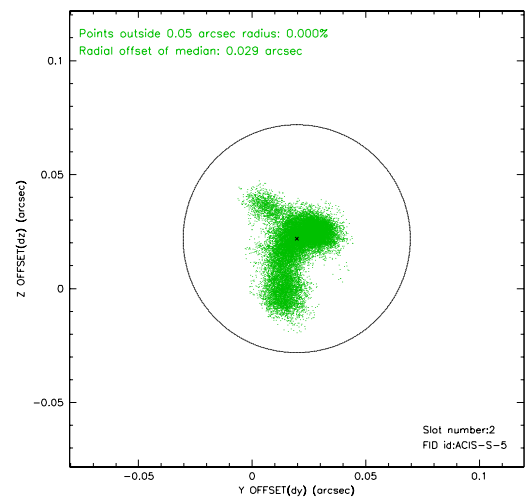
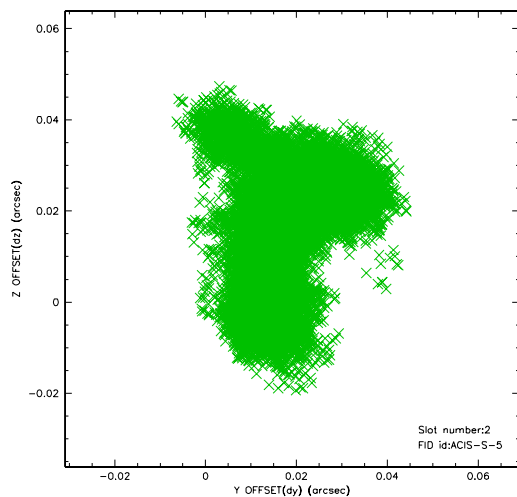
2.5.1 Slot 0



2.5.2 Slot 1

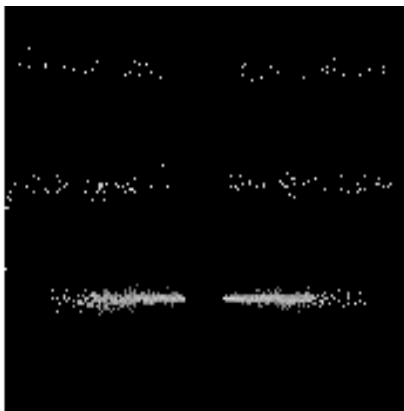


2.5.3 Slot 2

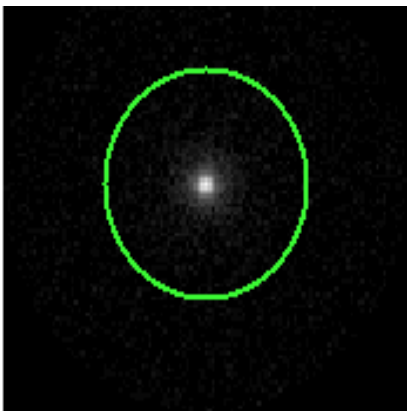


3 Gratings

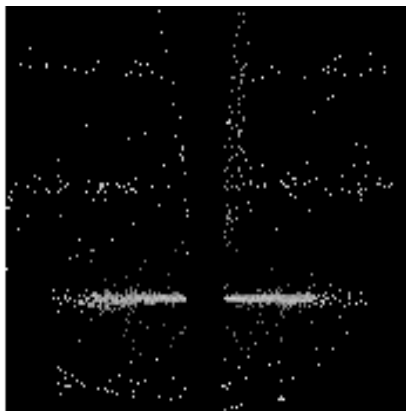
3.1 HEG Arm



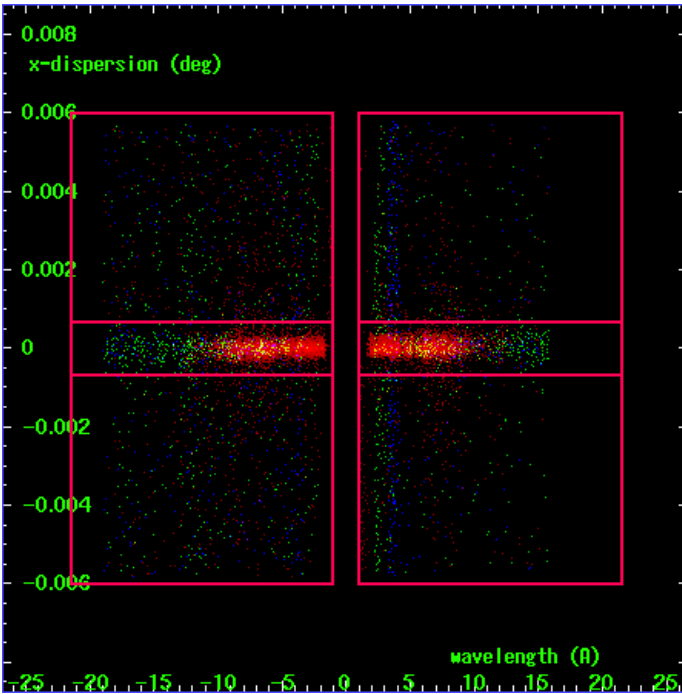
HEG Order Sort 123



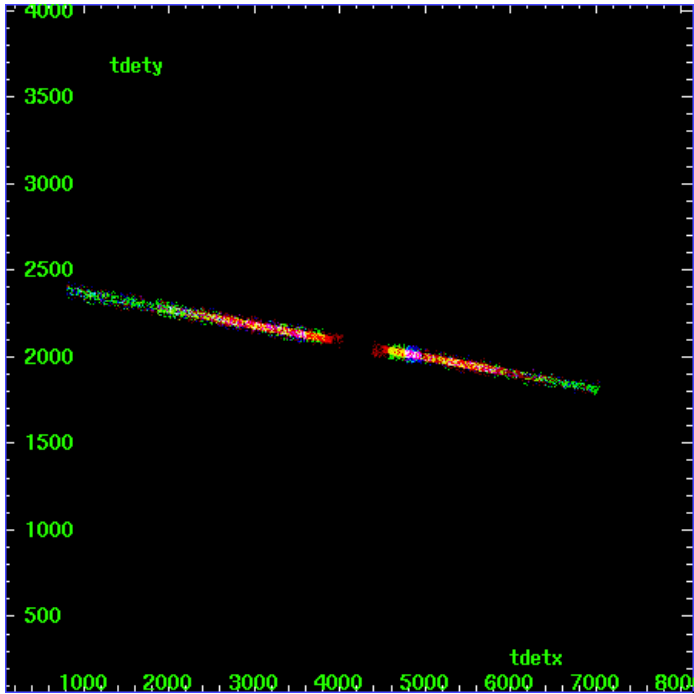
HEG Zero Order



HEG Order Sort ALL

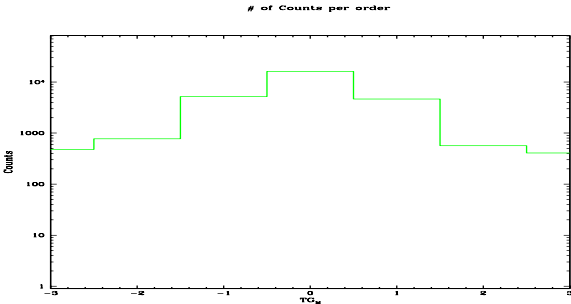


Spot Image HEG

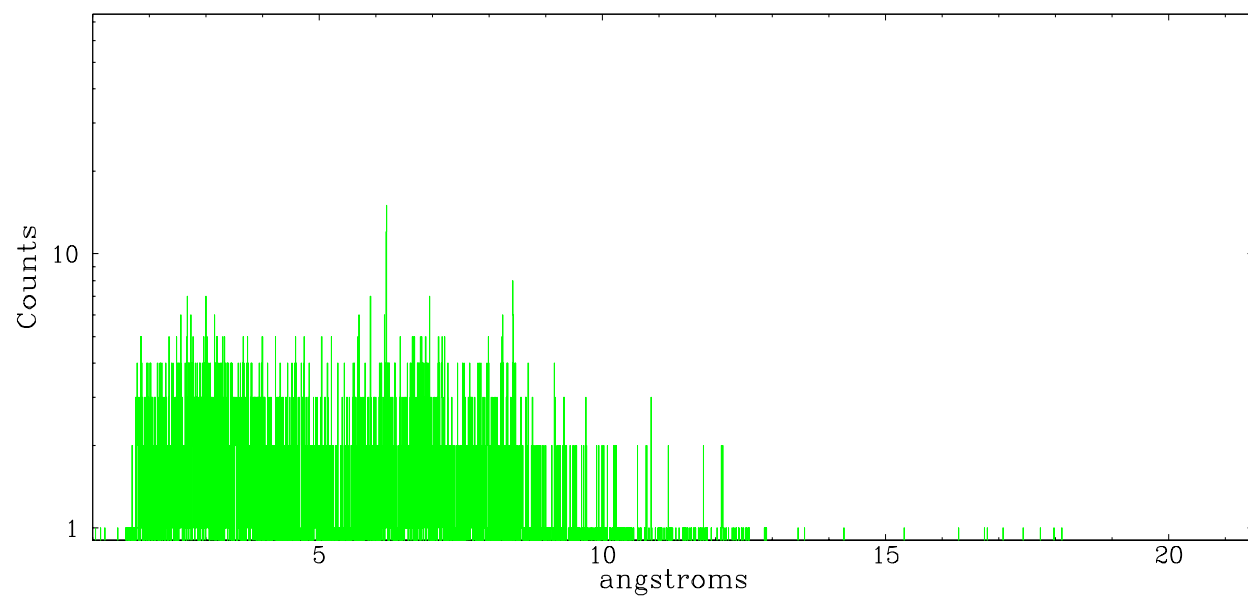


Full Detector HEG

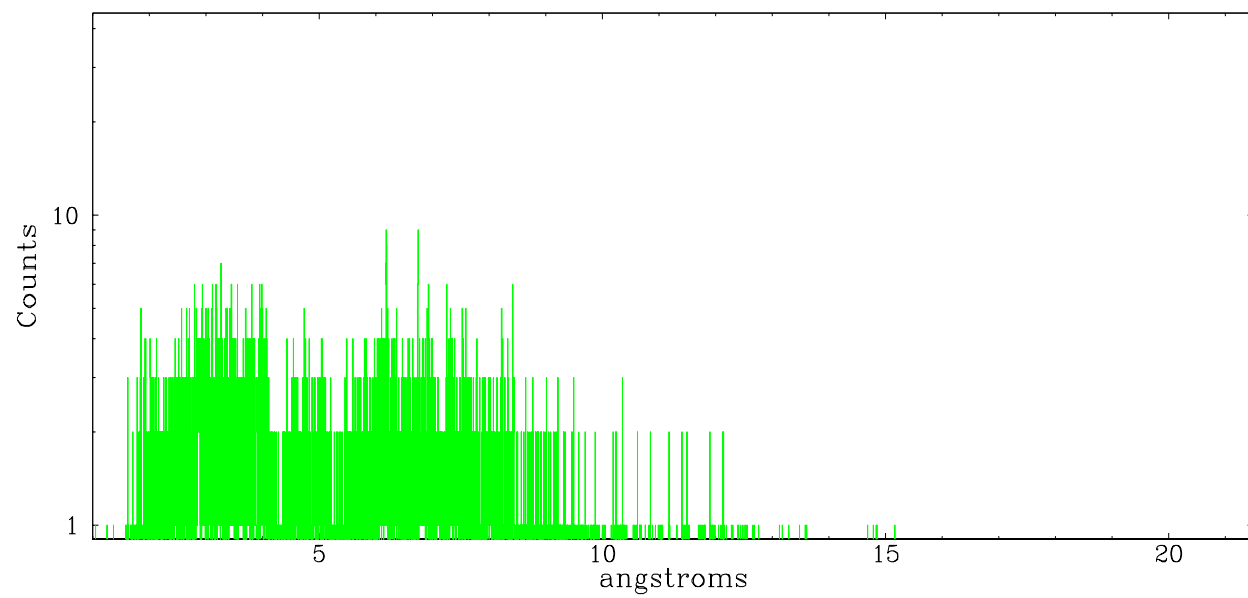
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	478	775	5189	16182	4634	567	407



heg order -1



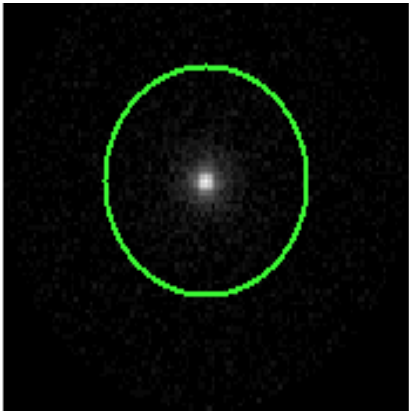
heg order +1



3.2 MEG Arm



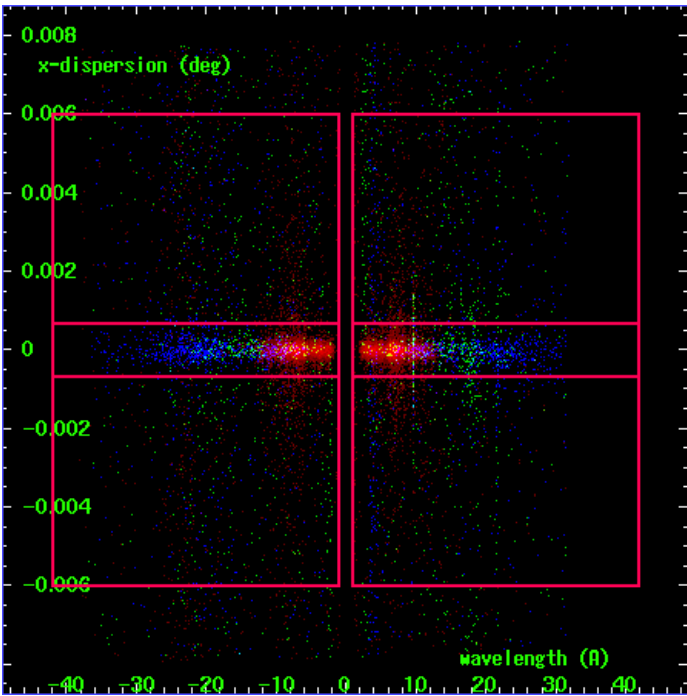
MEG Order Sort 123



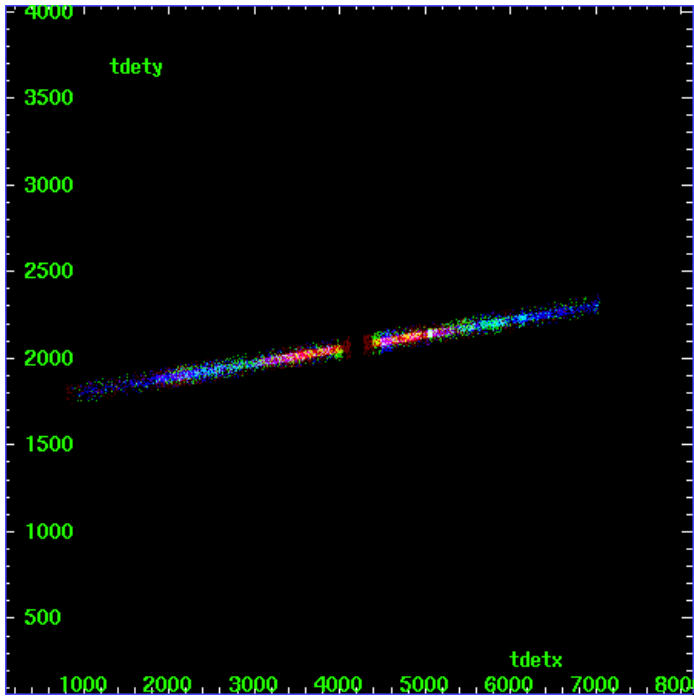
MEG Zero Order



MEG Order Sort ALL

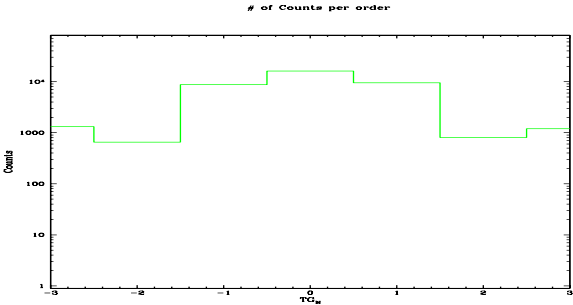


Spot Image MEG

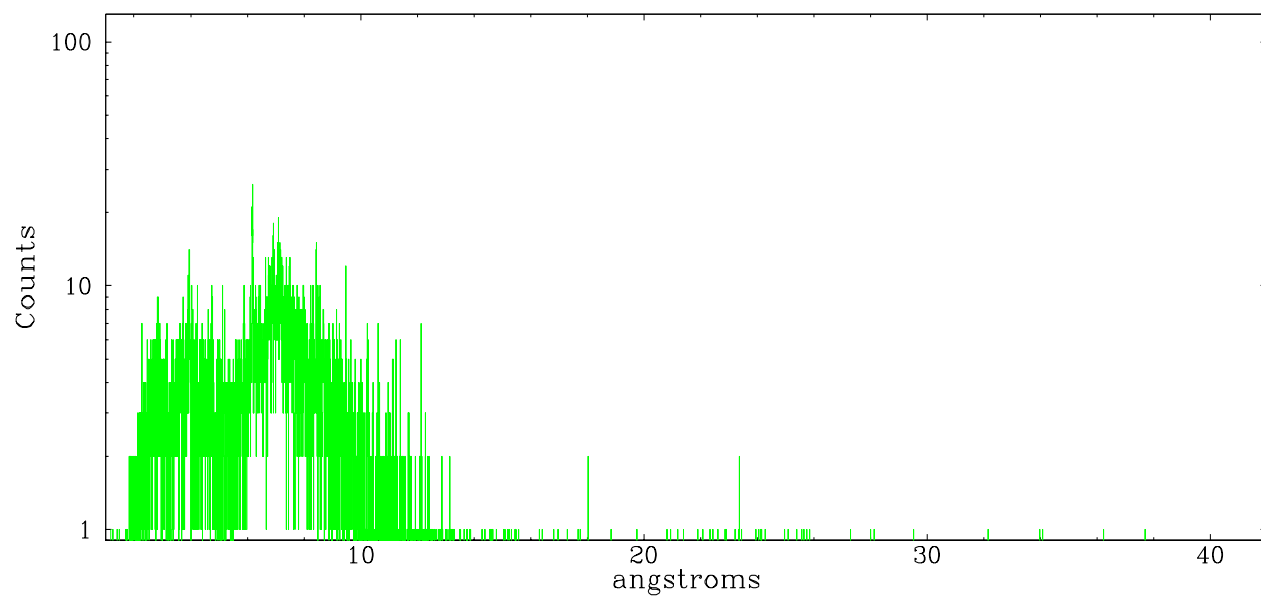


Full Detector MEG

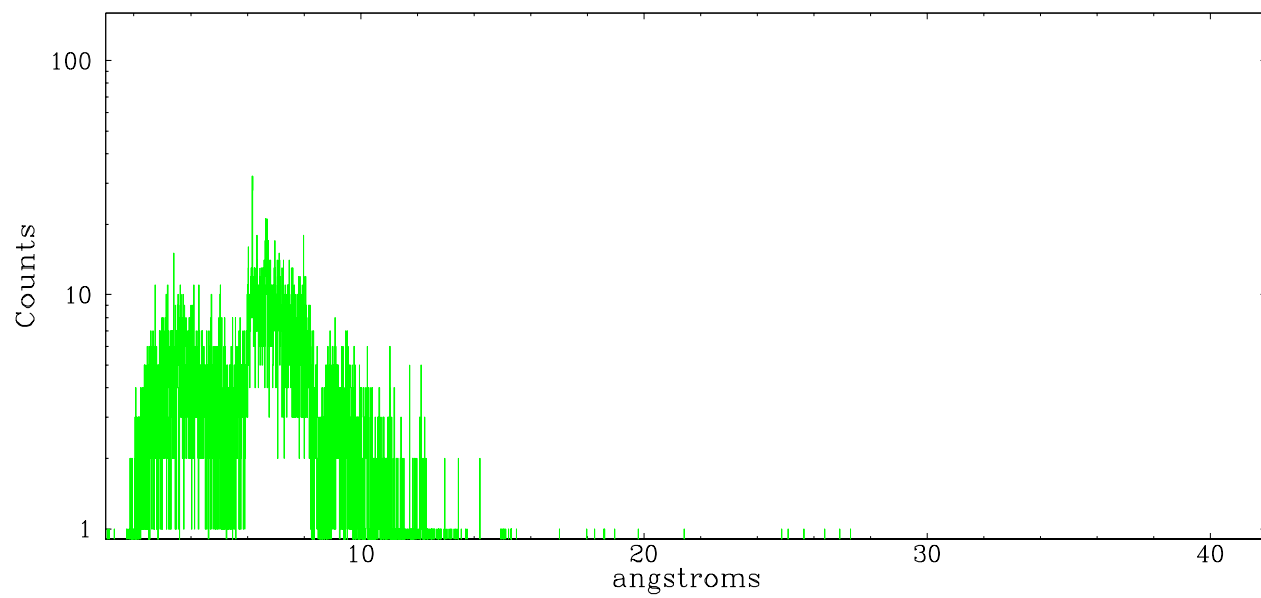
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1311	651	8737	16182	9523	806	1199



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	92.287

A.2 Comments

The target is offset from the center of the chip.