

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 647 - L2 Version 001
Chandra X-Ray Center

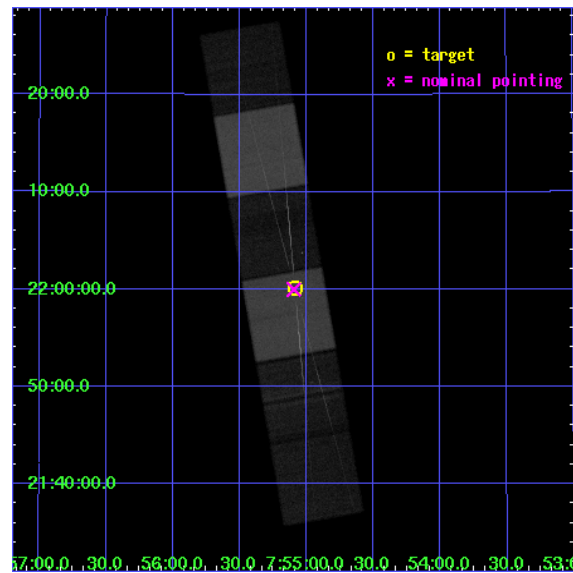
L2 Processing Date : Jun 18 2007

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1 Front

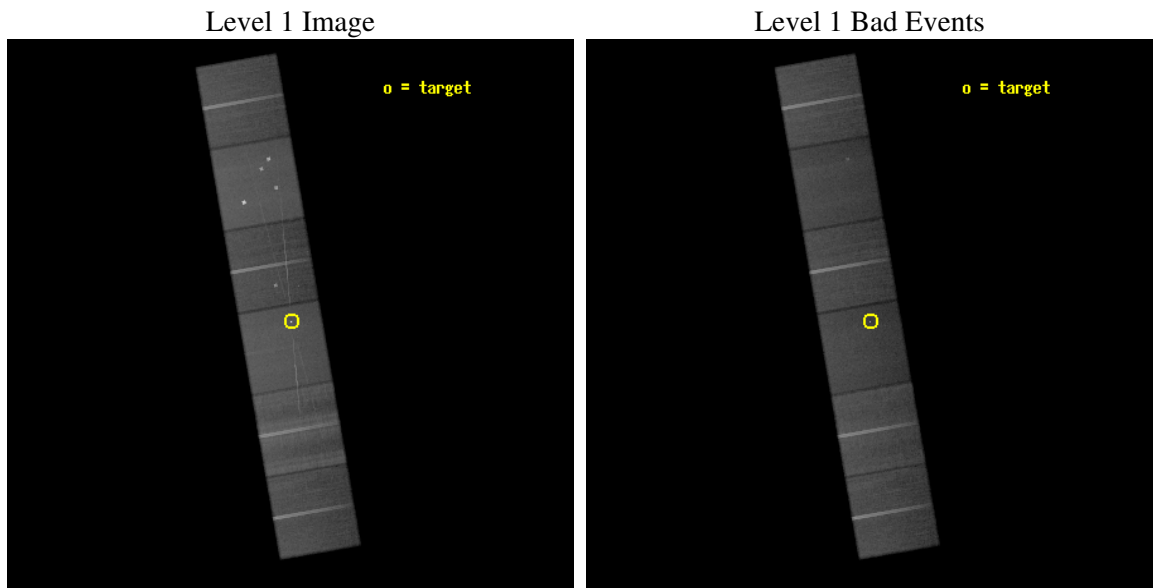
seq_num	300016
obs_id	647
title	A STUDY OF THE CLASSIC BOUNDARY LAYER IN U GEM AT QUIESCENCE
observer	PROF. PAULA SZKODY
object	U GEM
dtcycle	0
cycle	P
ra_targ	118.772083
dec_targ	22.001583
ra_nom	118.77370293108
dec_nom	22.0000010466
roll_nom	80.086401902829
revision	2
ontime	96156.800089553
livetime	94939.204788145
ontime4	96147.077168897
ontime5	96156.800089553
ontime6	96143.836218581
ontime7	96156.800089553
ontime8	96140.595397785
ontime9	96150.318159088
l2events	877324



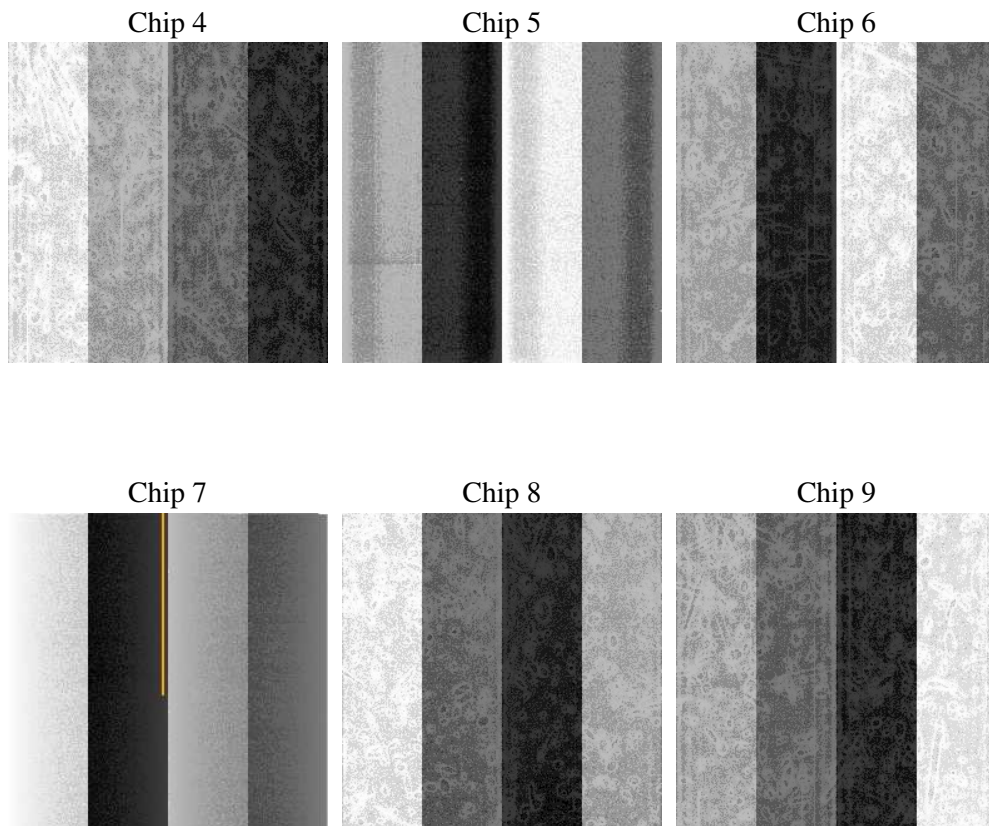
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	3
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-18T13:52:53
revision	2

sched_exp_time	95975.000000
ontime	96156.800089553
ontime4	96147.077168897
ontime5	96156.800089553
ontime6	96143.836218581
ontime7	96156.800089553
ontime8	96140.595397785
ontime9	96150.318159088
l1events	3798857

2.1.4 Events

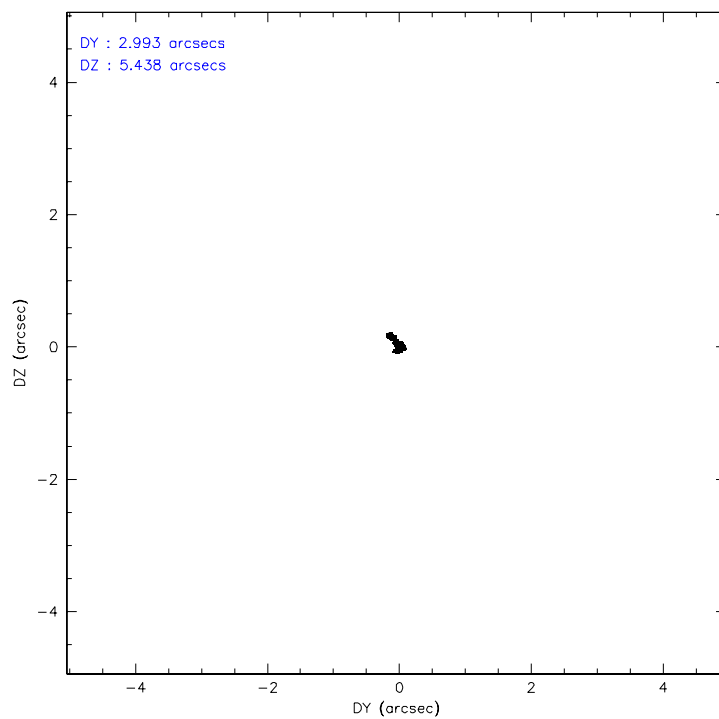
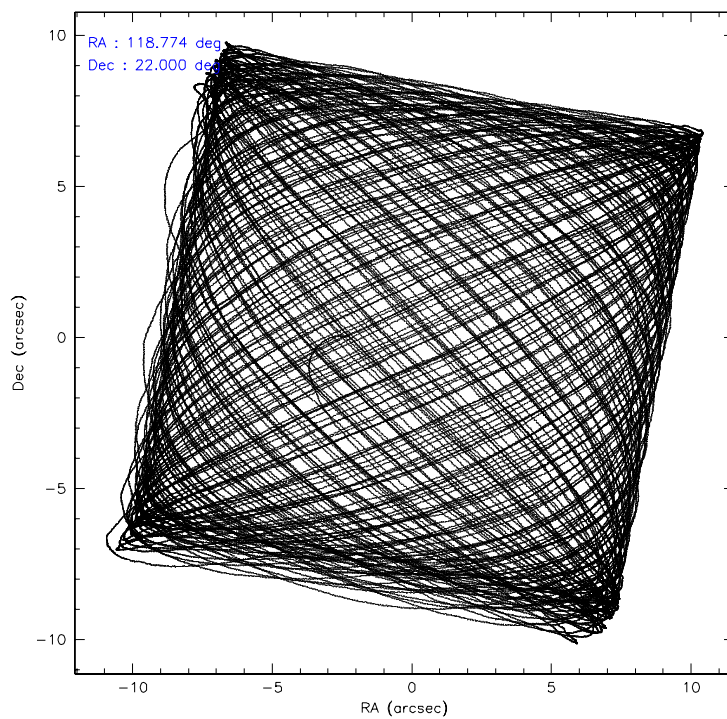
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	582477	750987	539394	681557	723824	520618
rejected events	509956	381606	458153	375950	524502	451879
rejected %	87%	50%	84%	55%	72%	86%

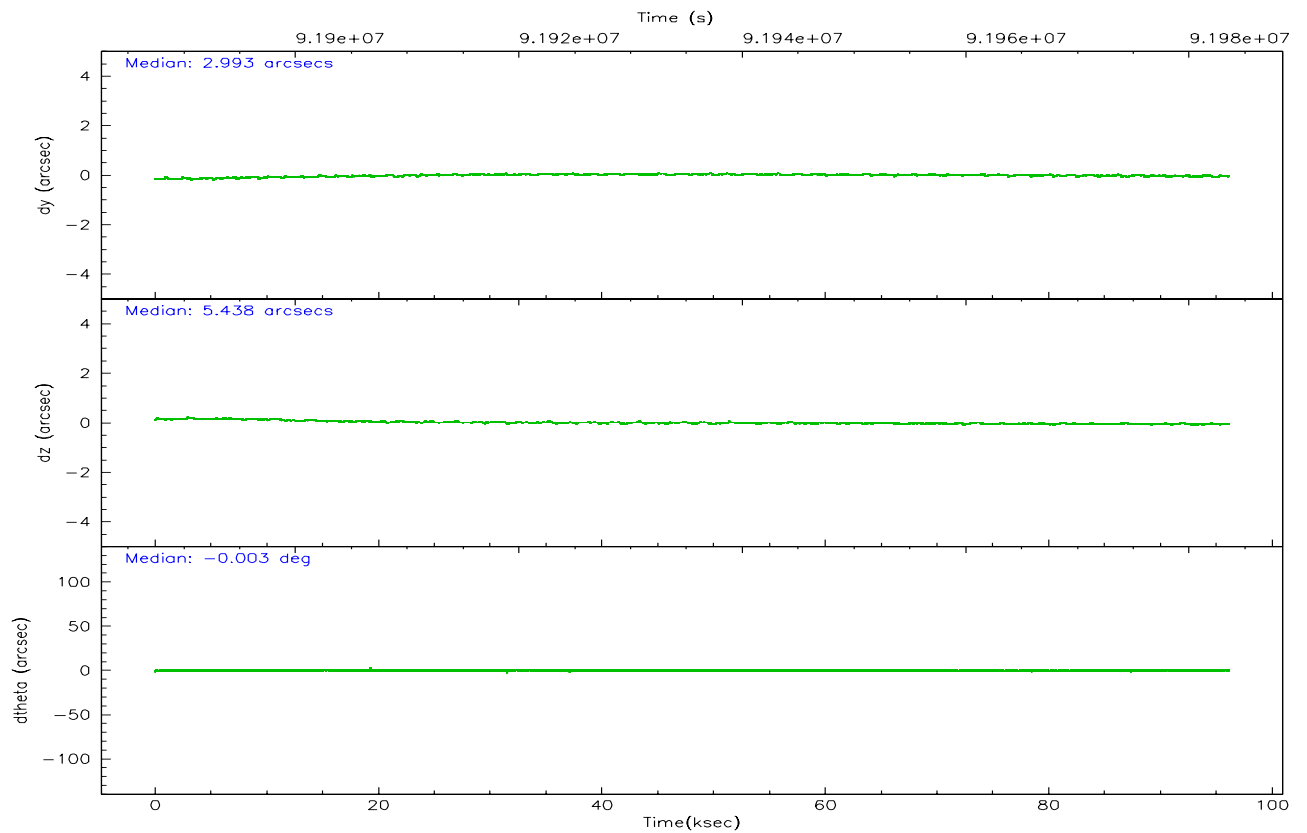
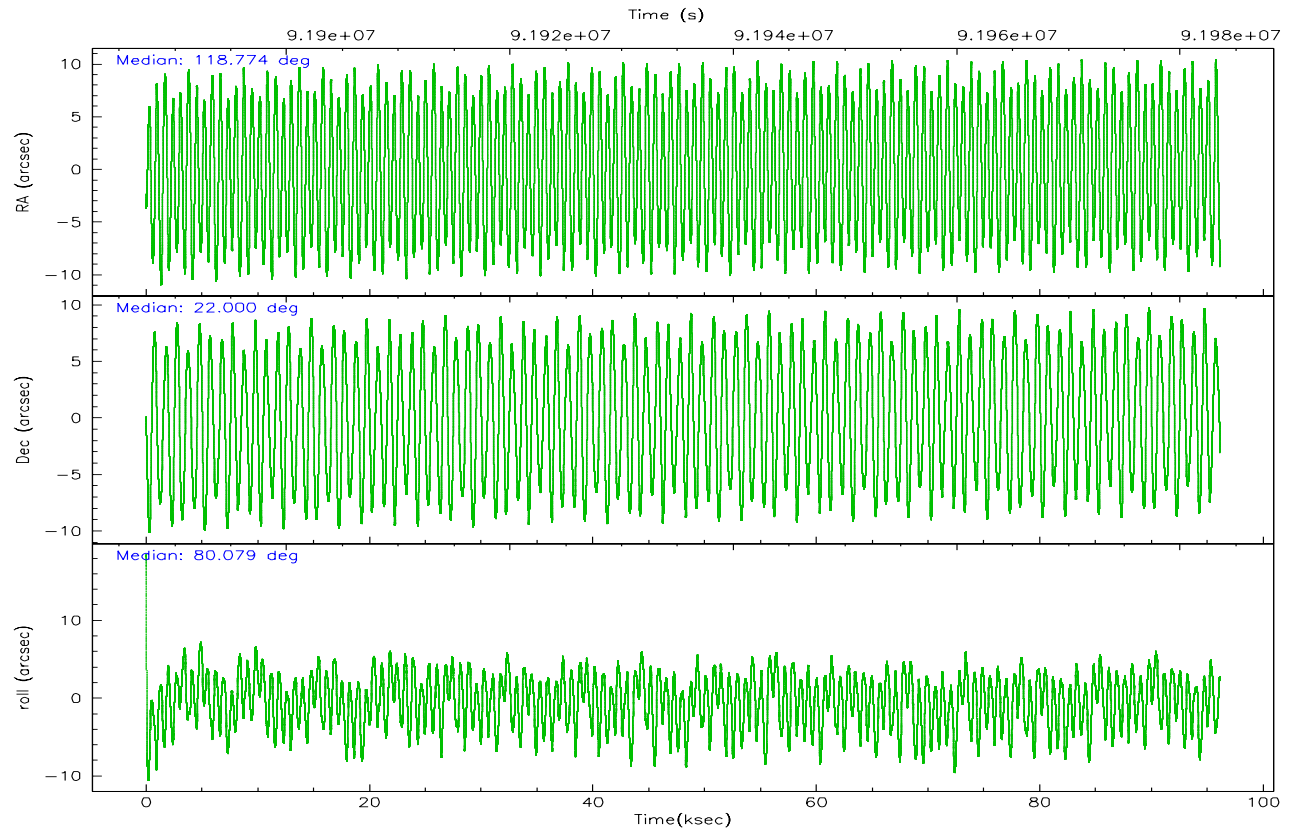
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	30749	67368	39516	32079	62664	28815
	5%	8%	7%	4%	8%	5%
grade 1 events	269	1461	293	786	483	238
	0%	0%	0%	0%	0%	0%
grade 2 events	17753	99752	15339	61424	38370	13913
	3%	13%	2%	9%	5%	2%
grade 3 events	6002	15255	6551	28603	24822	6619
	1%	2%	1%	4%	3%	1%
grade 4 events	5956	14962	6316	28353	22693	6134
	1%	1%	1%	4%	3%	1%
grade 5 events	17948	53772	21167	62677	28056	21563
	3%	7%	3%	9%	3%	4%
grade 6 events	12153	172492	13644	155538	50969	13331
	2%	22%	2%	22%	7%	2%
grade 7 events	491647	325925	436568	312097	495767	430005
	84%	43%	80%	45%	68%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	118.784036	118.7737029310831	Subarray requested	NONE	NONE
Pointing Dec	21.974387	22.00000104659982	Alternating exposures requested	N	N
Pointing Roll	79.925904	80.08640190282898	Primary exposure time	3.200000	3.2
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	91887610.184000	91886480.768905			
Observation start date	2000-11-29T12:19:06	2000-11-29T12:01:20			
Observation end time	91983585.184000	91984411.835145			
Observation end date	2000-11-30T14:58:41	2000-11-30T15:13:31			
Read mode	TIMED	TIMED			

2.3 Aspect



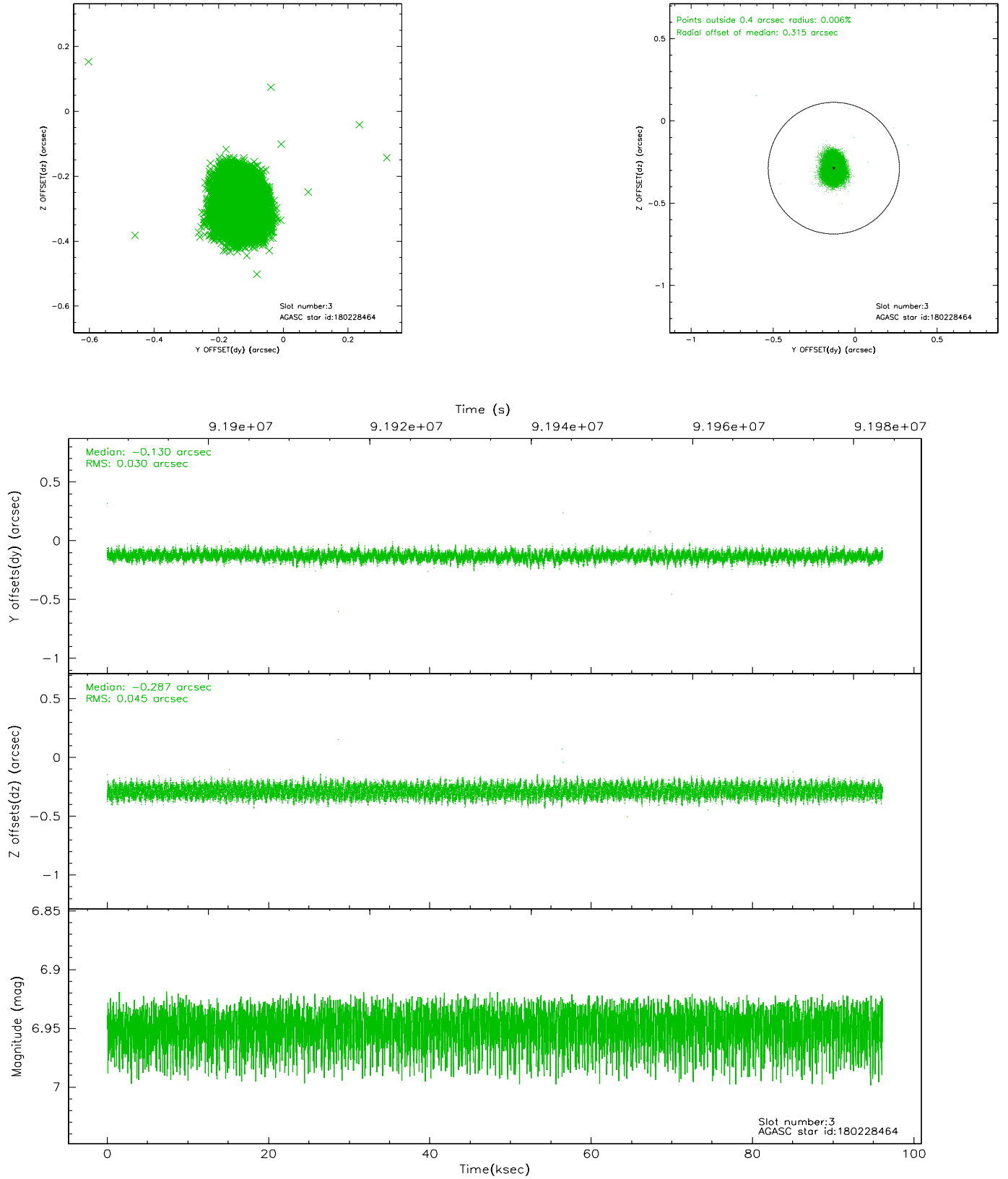


Slot Statistics

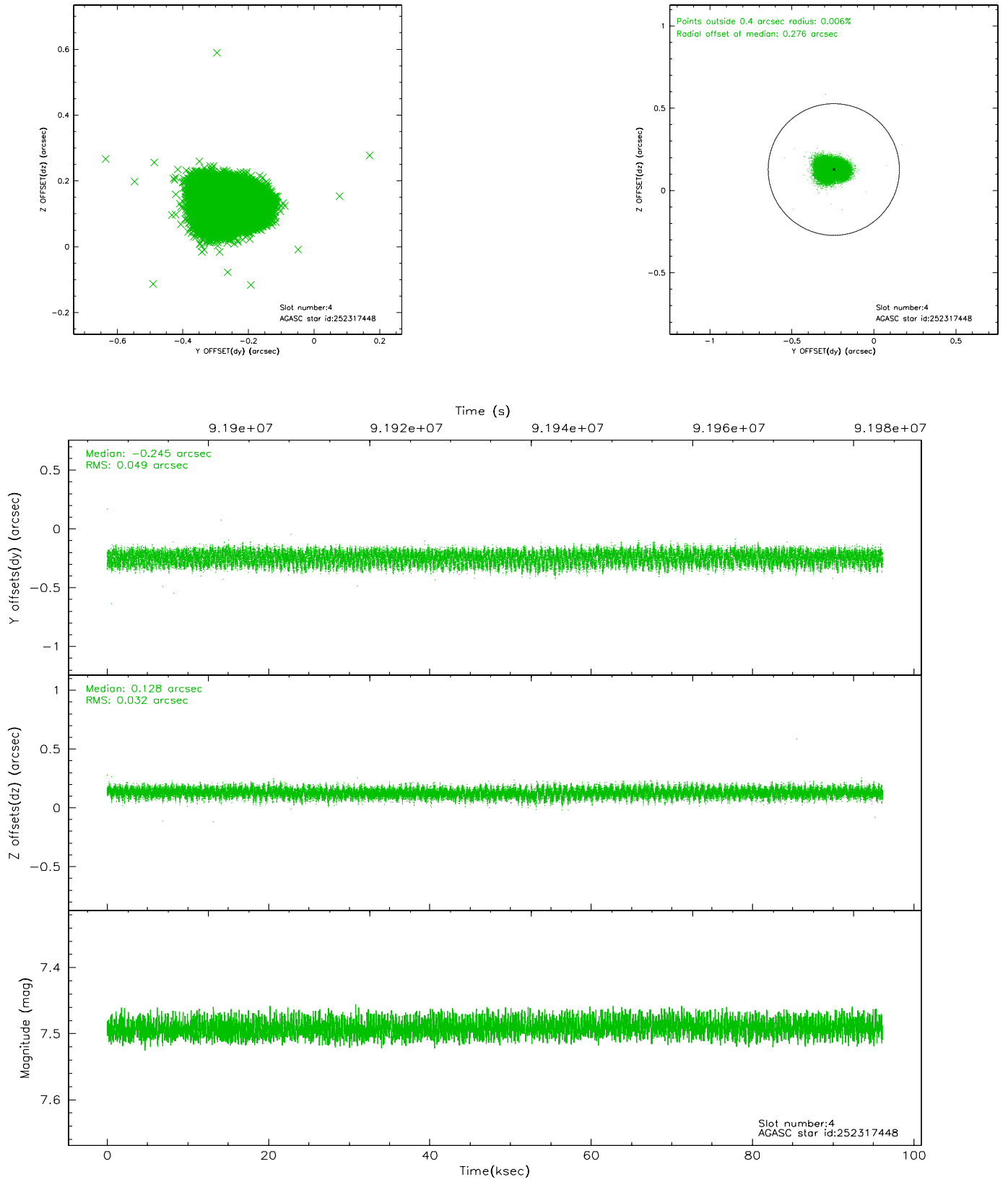
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	23453	-0.000	-0.018	0.007	0.011	0.000000	0.000000	-755.45	-1788.72
1	FID	ACIS-S-4	7.20	23454	-0.072	0.005	0.006	0.012	0.000000	0.000000	2157.83	119.82
2	FID	ACIS-S-5	7.24	23453	0.041	0.021	0.007	0.012	0.000000	0.000000	-1808.32	113.48
3	GUIDE	180228464	6.95	46908	-0.130	-0.287	0.058	0.091	118.254204	22.334528	971.17	1964.38
4	GUIDE	252317448	7.49	46845	-0.245	0.128	0.063	0.100	119.081958	22.571691	2291.65	-598.29
5	GUIDE	180225784	9.15	46892	0.117	0.103	0.074	0.120	119.097851	21.836390	-303.76	-1119.08
6	GUIDE	180228192	9.34	46889	0.017	-0.156	0.104	0.161	118.222338	22.282125	767.26	2036.69
7	GUIDE	180231064	9.88	46873	0.239	0.208	0.113	0.194	119.121264	21.347102	-2023.40	-1508.06

2.4 Star Slots

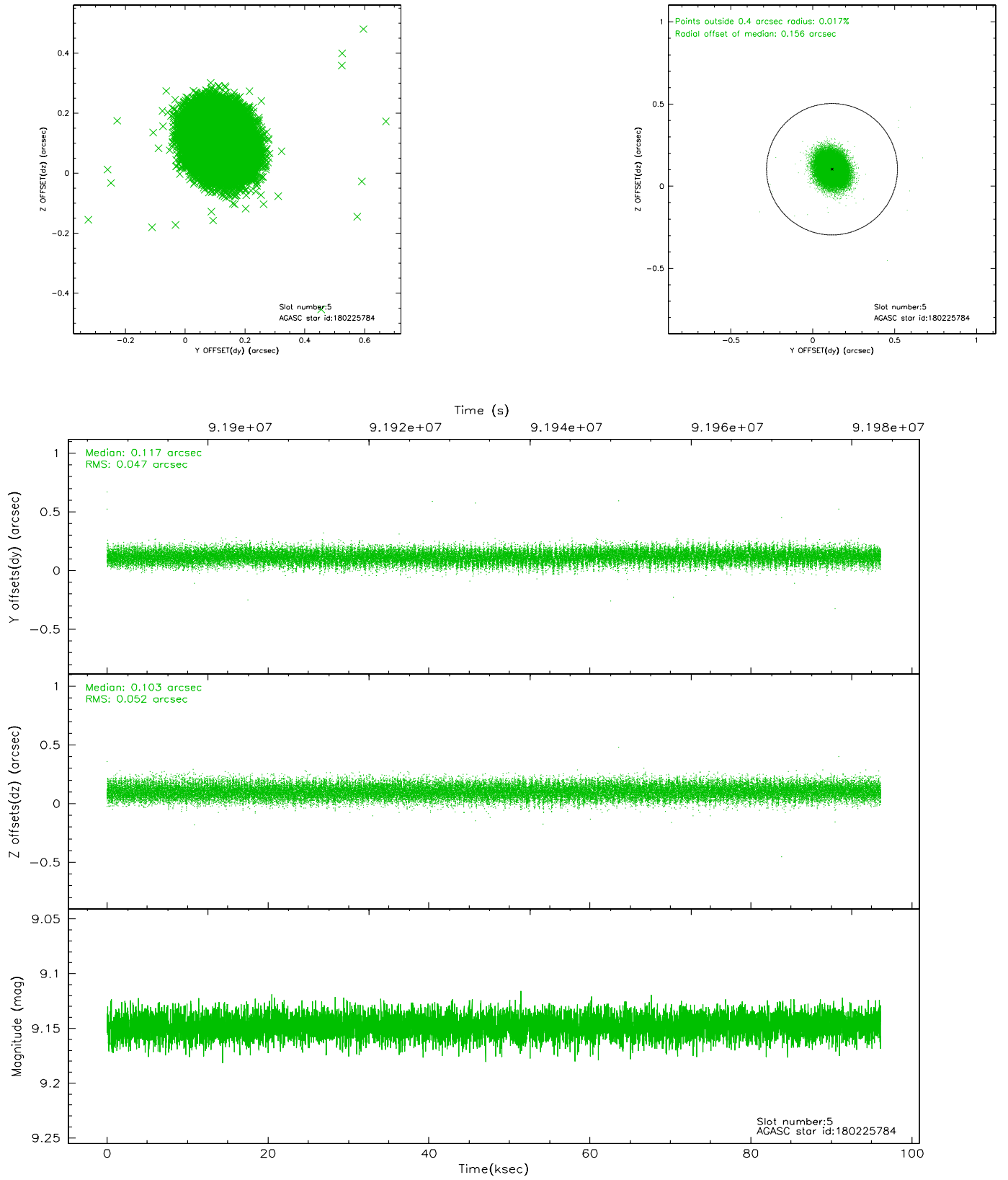
2.4.1 Slot 3



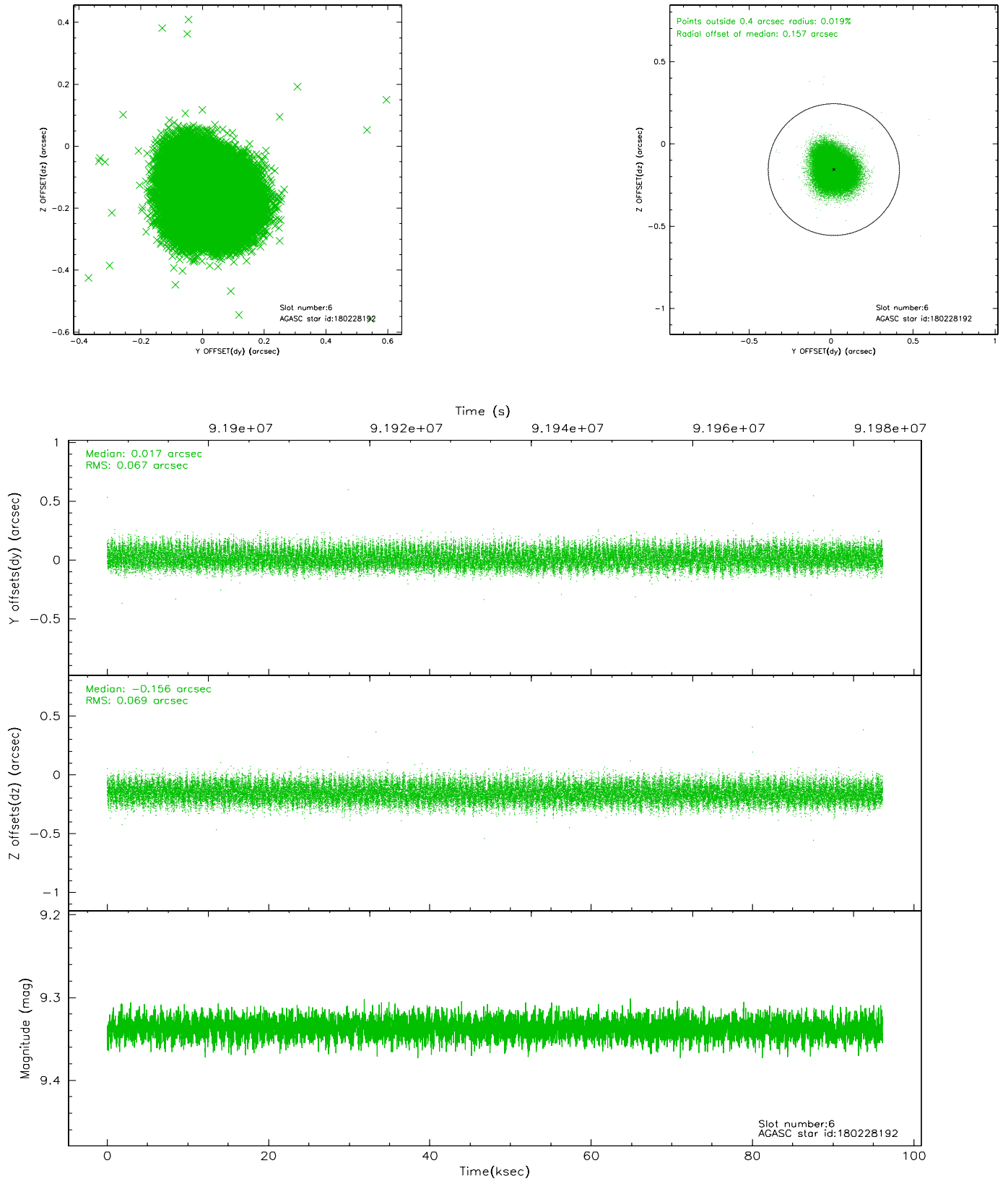
2.4.2 Slot 4



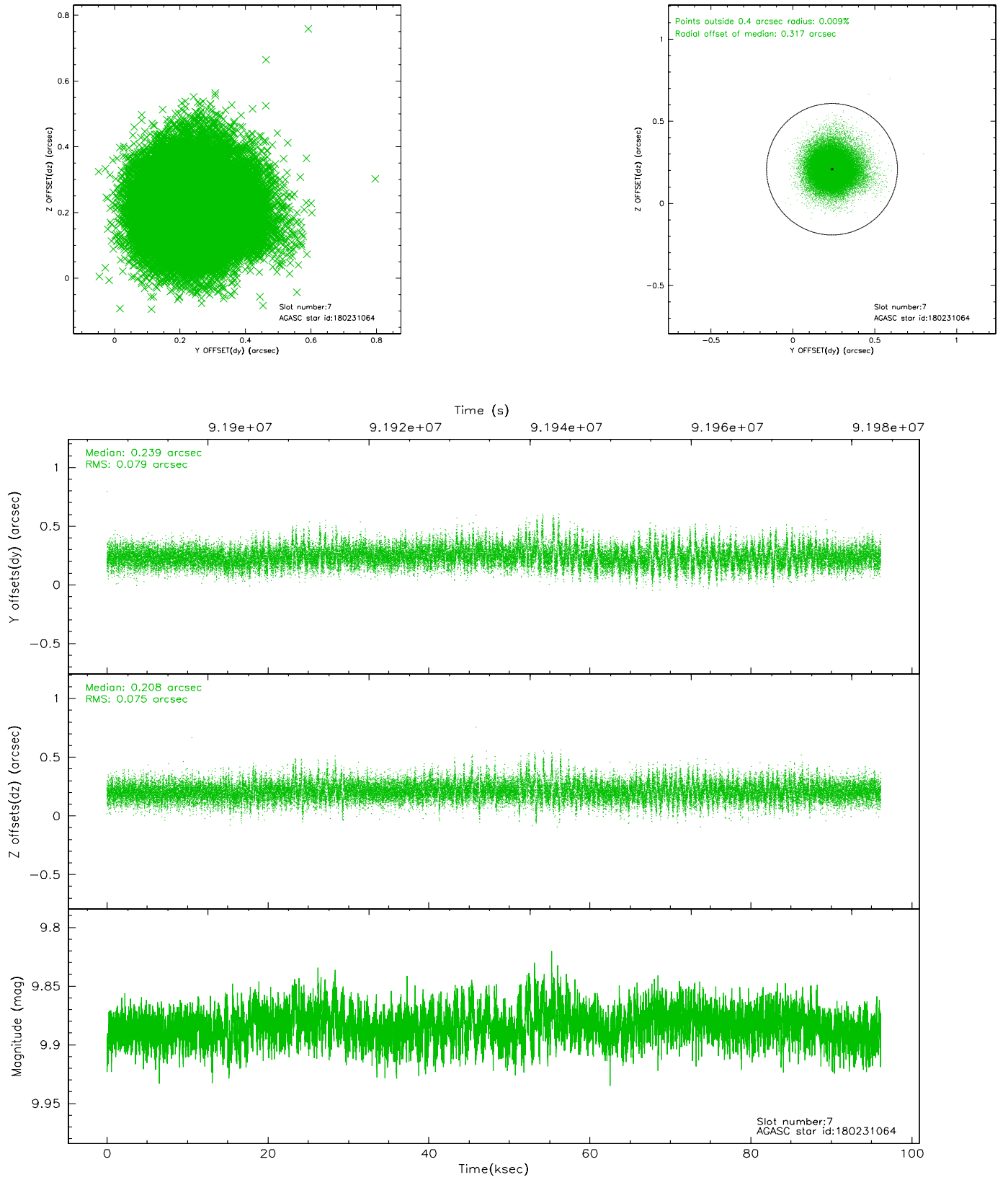
2.4.3 Slot 5



2.4.4 Slot 6

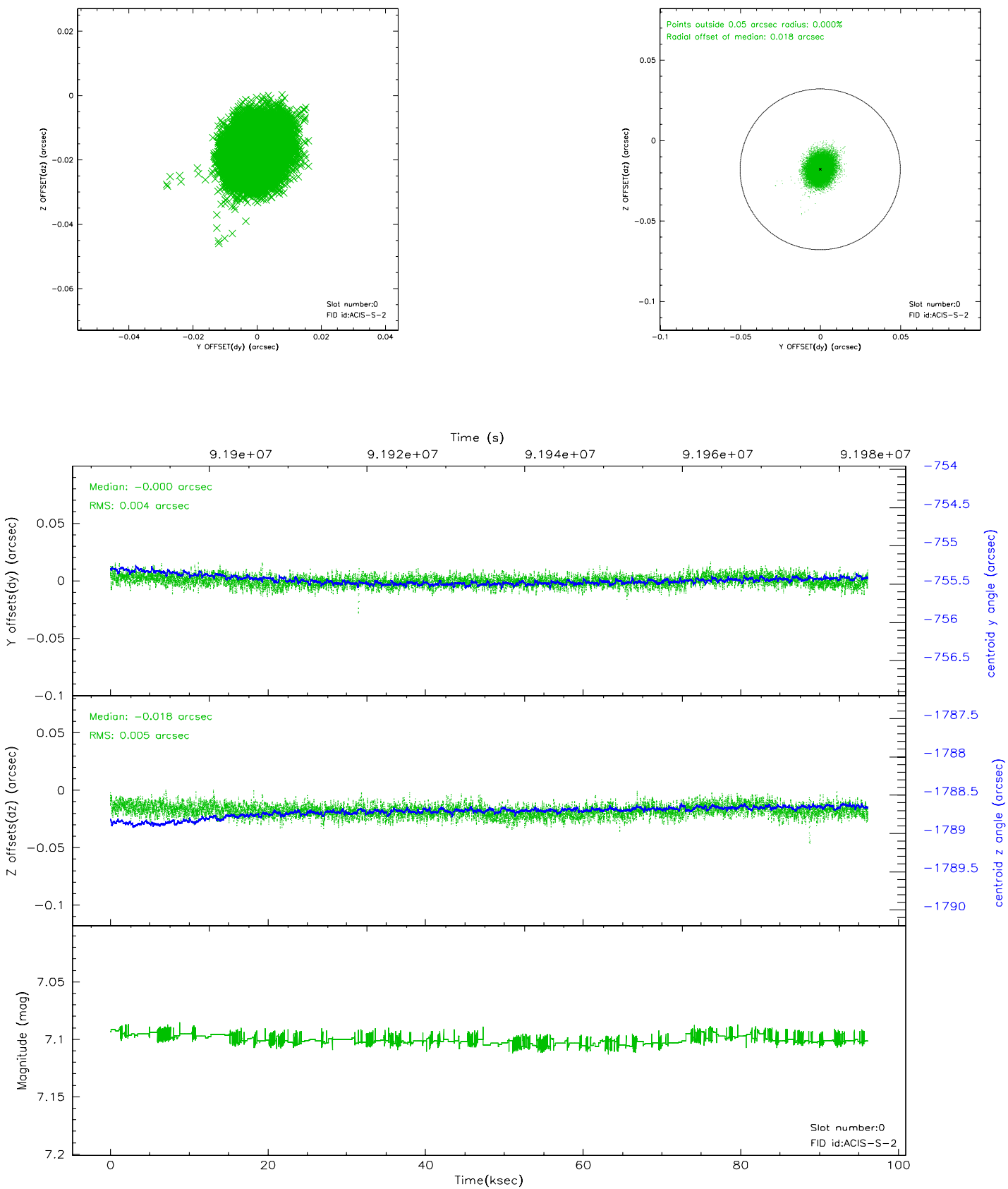


2.4.5 Slot 7

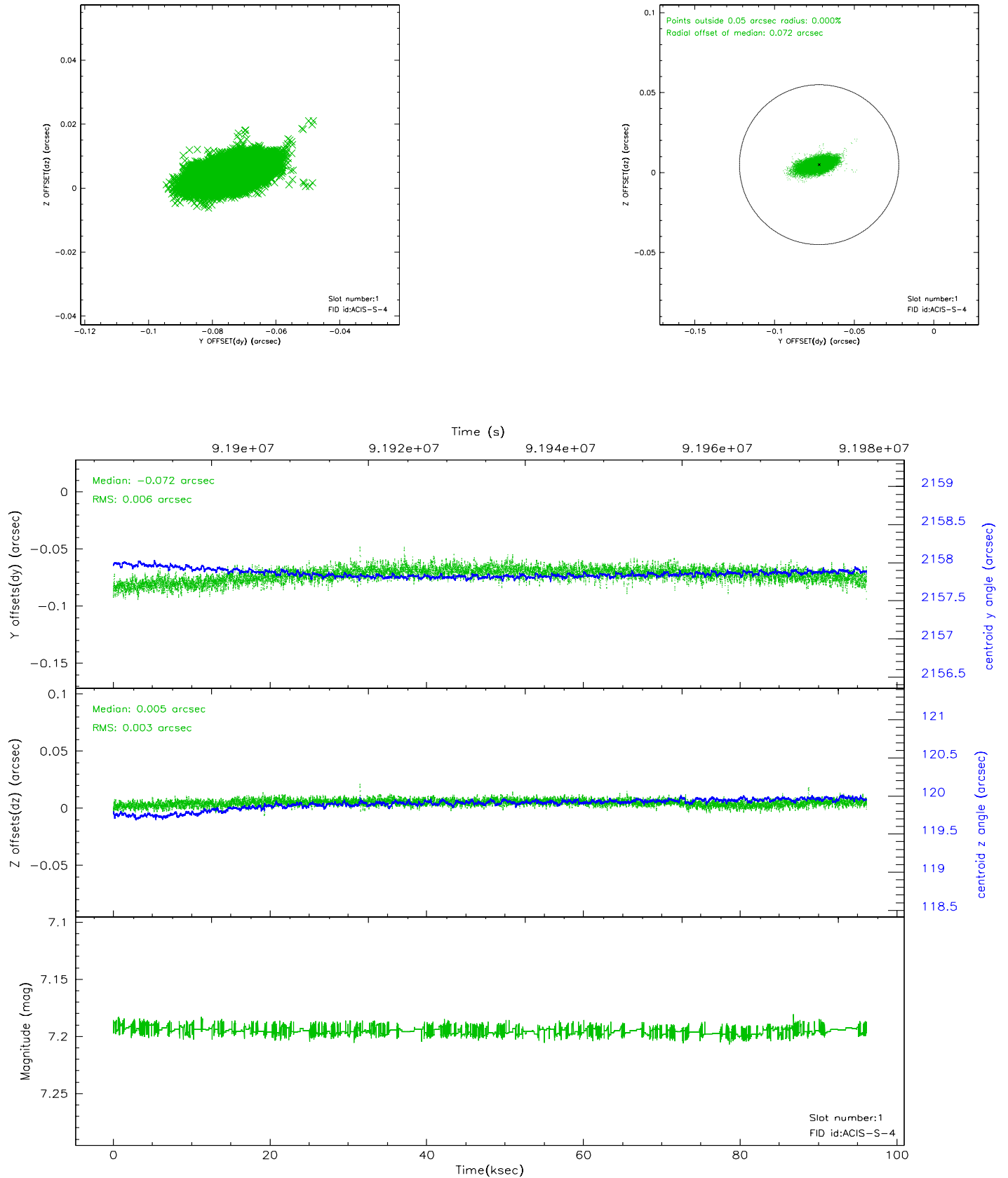


2.5 FID Slots

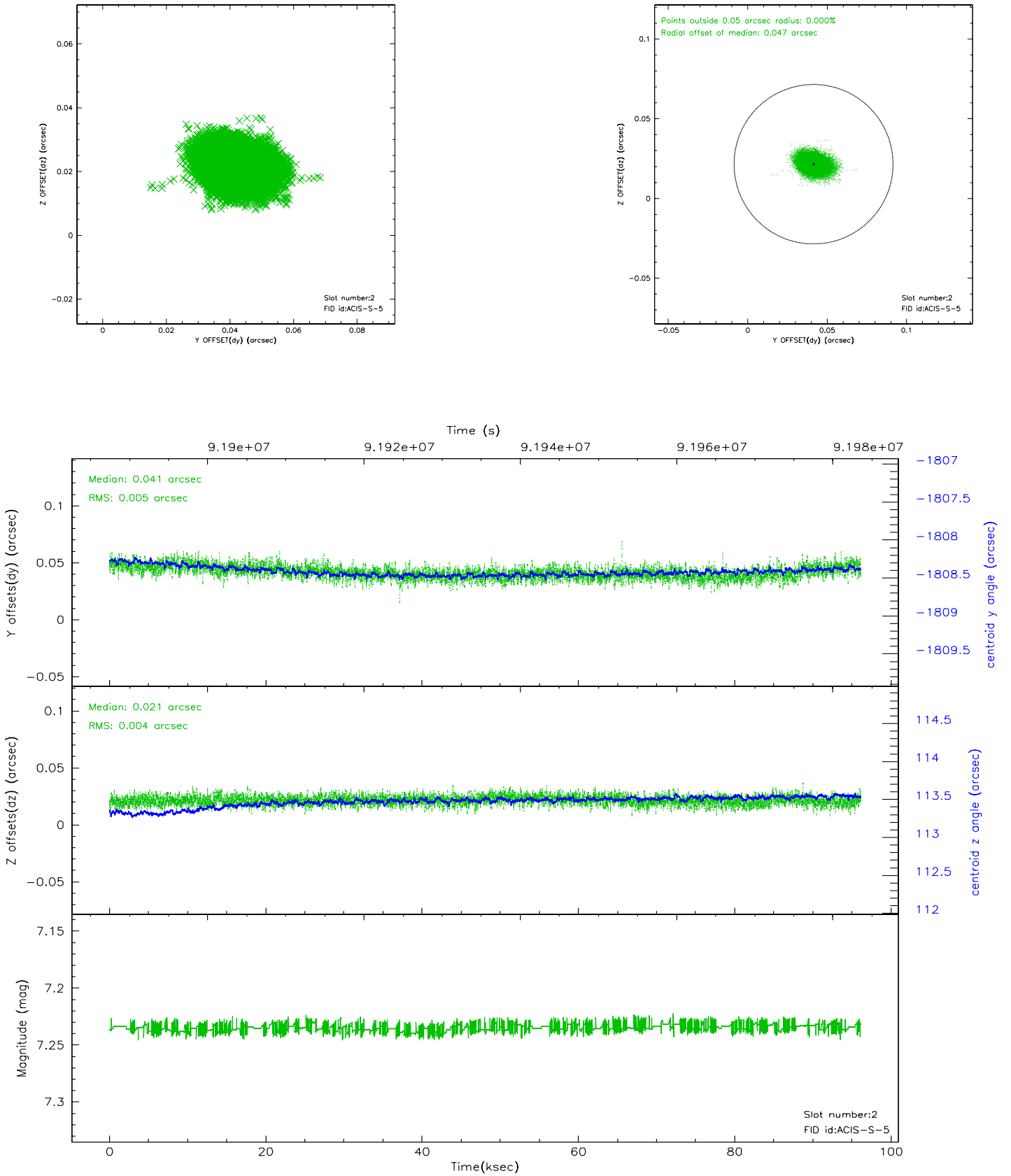
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

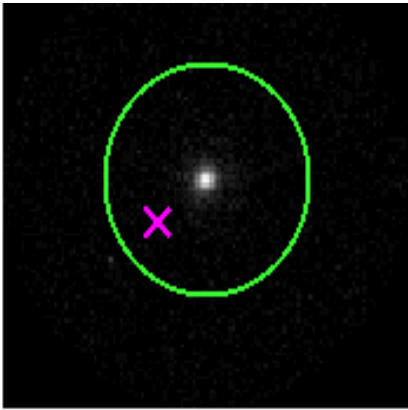


3 Gratings

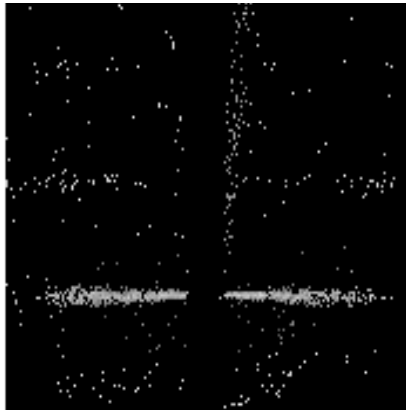
3.1 HEG Arm



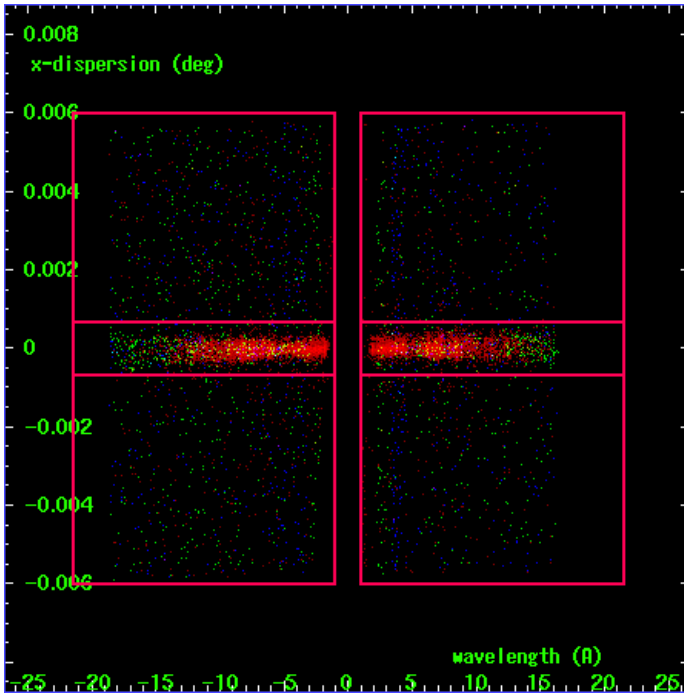
HEG Order Sort 123



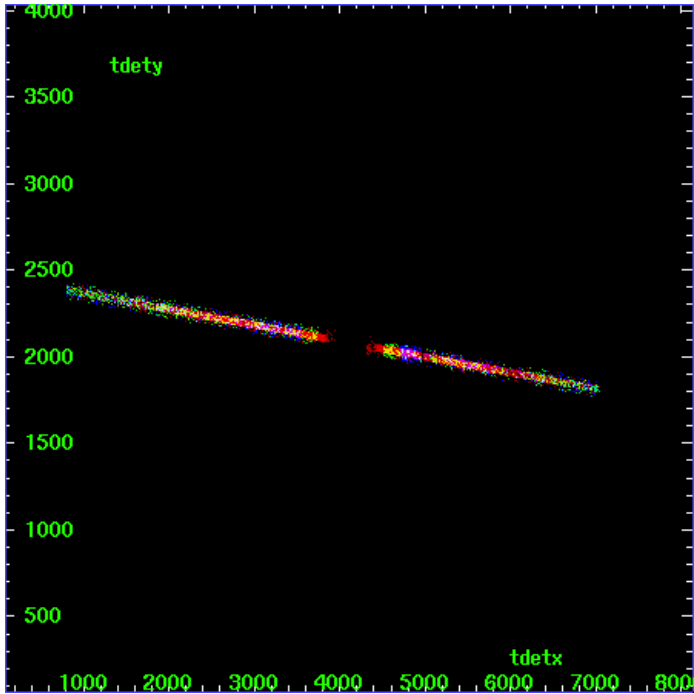
HEG Zero Order



HEG Order Sort ALL

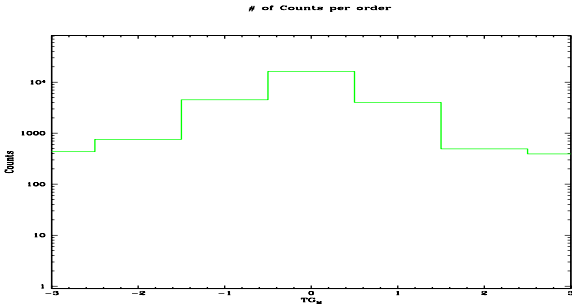


Spot Image HEG

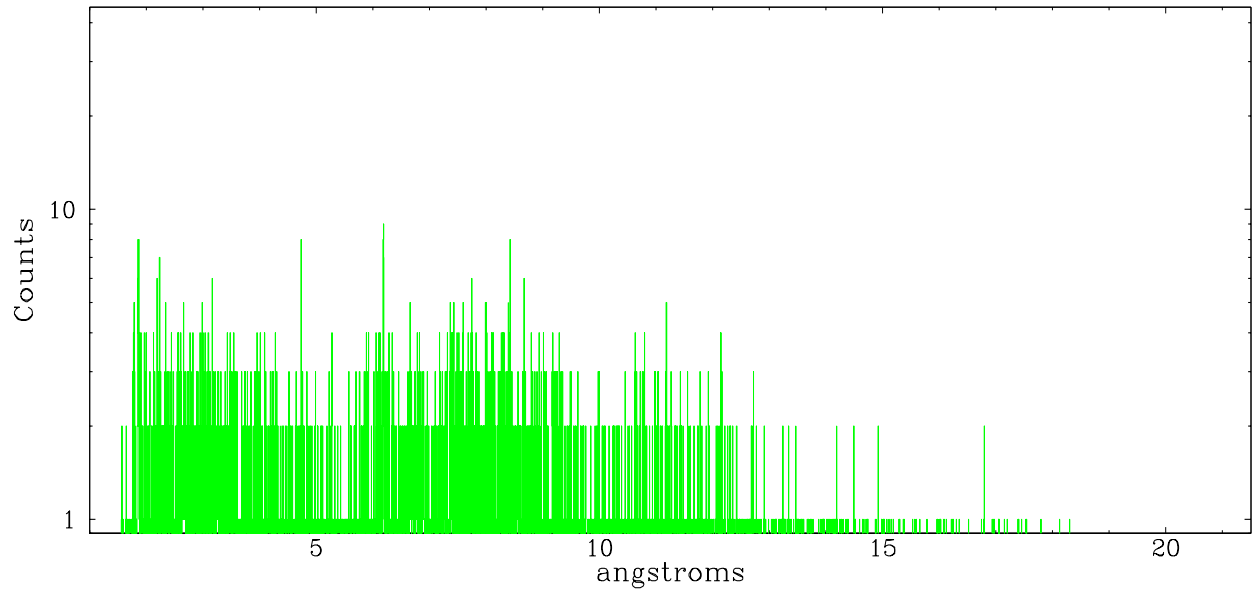


Full Detector HEG

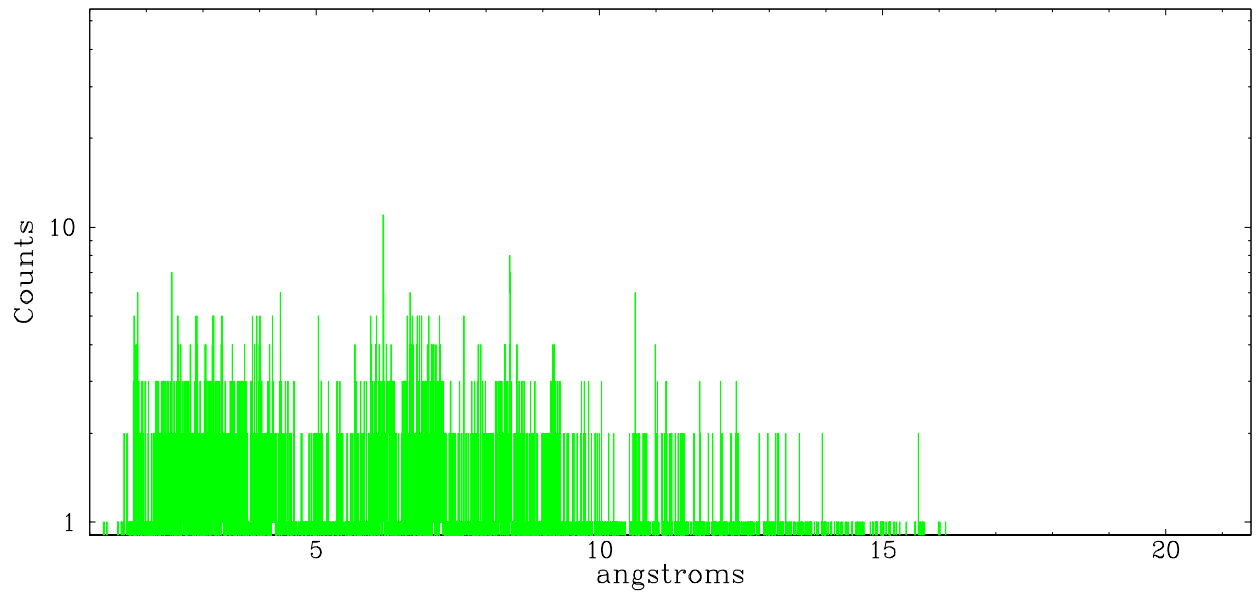
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	436	760	4509	16318	4007	494	393



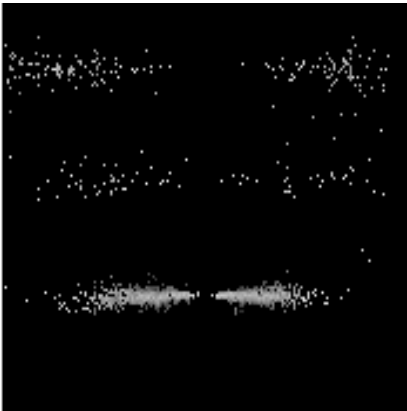
heg order -1



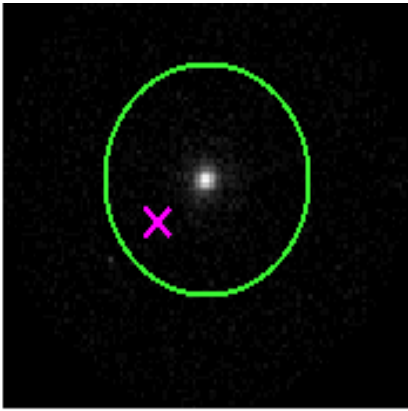
heg order +1



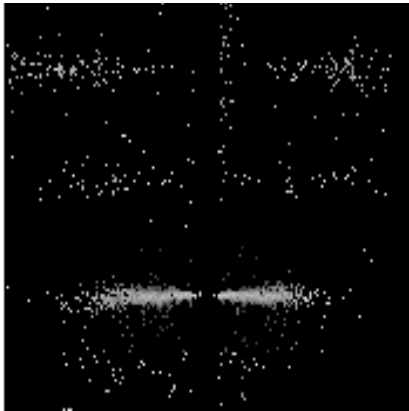
3.2 MEG Arm



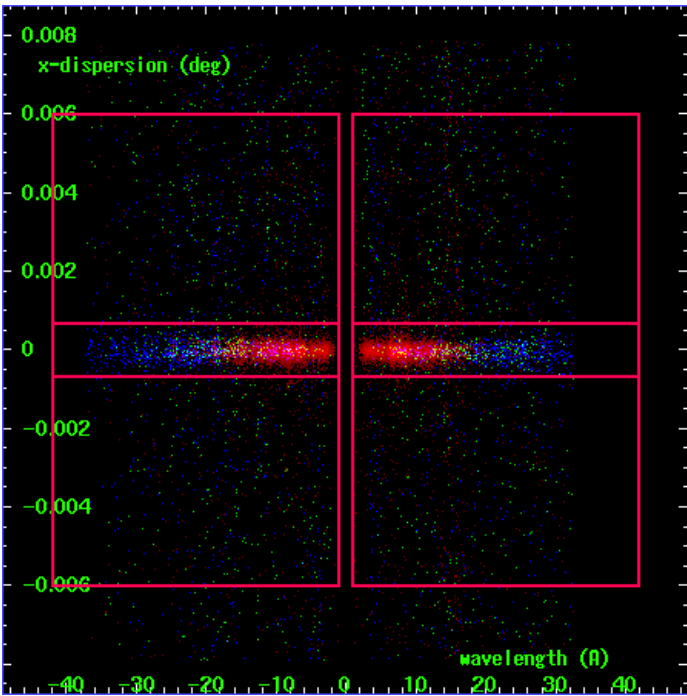
MEG Order Sort 123



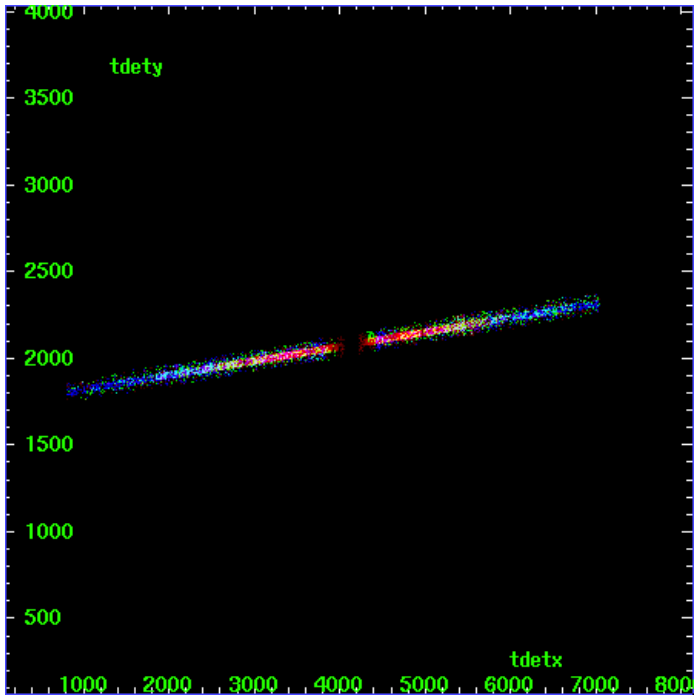
MEG Zero Order



MEG Order Sort ALL

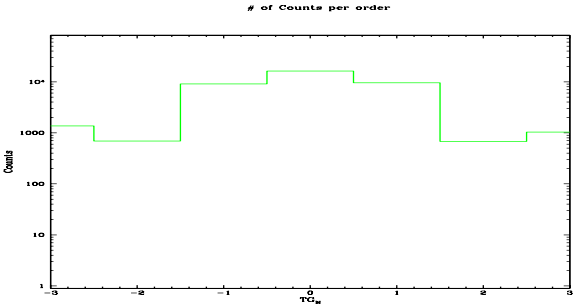


Spot Image MEG

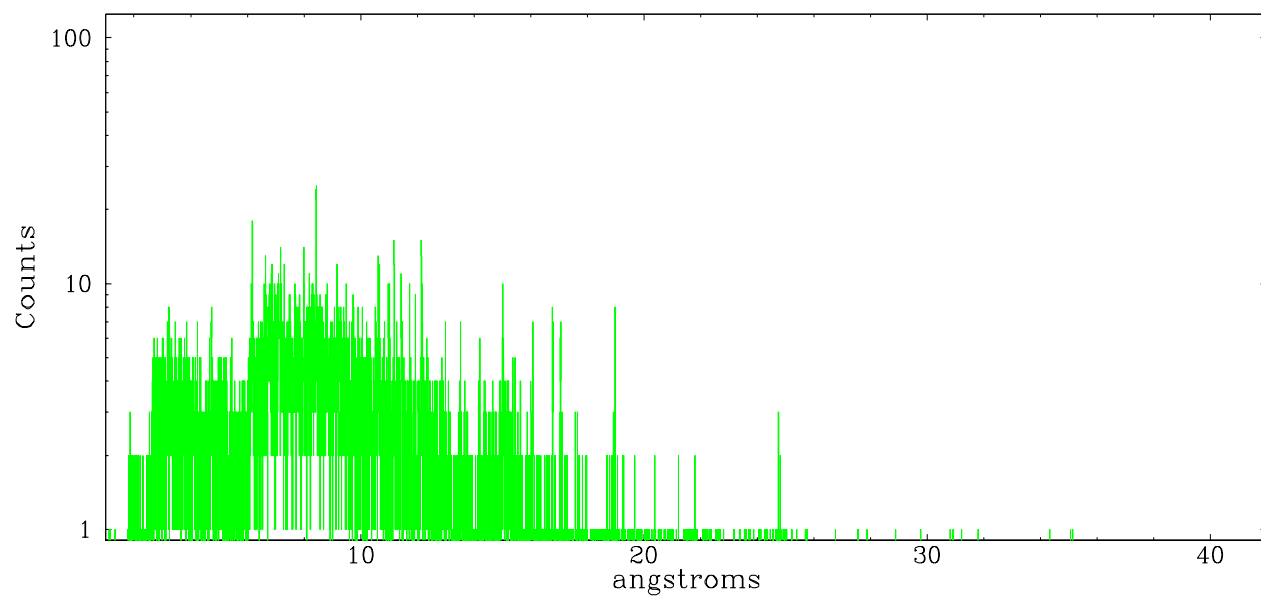


Full Detector MEG

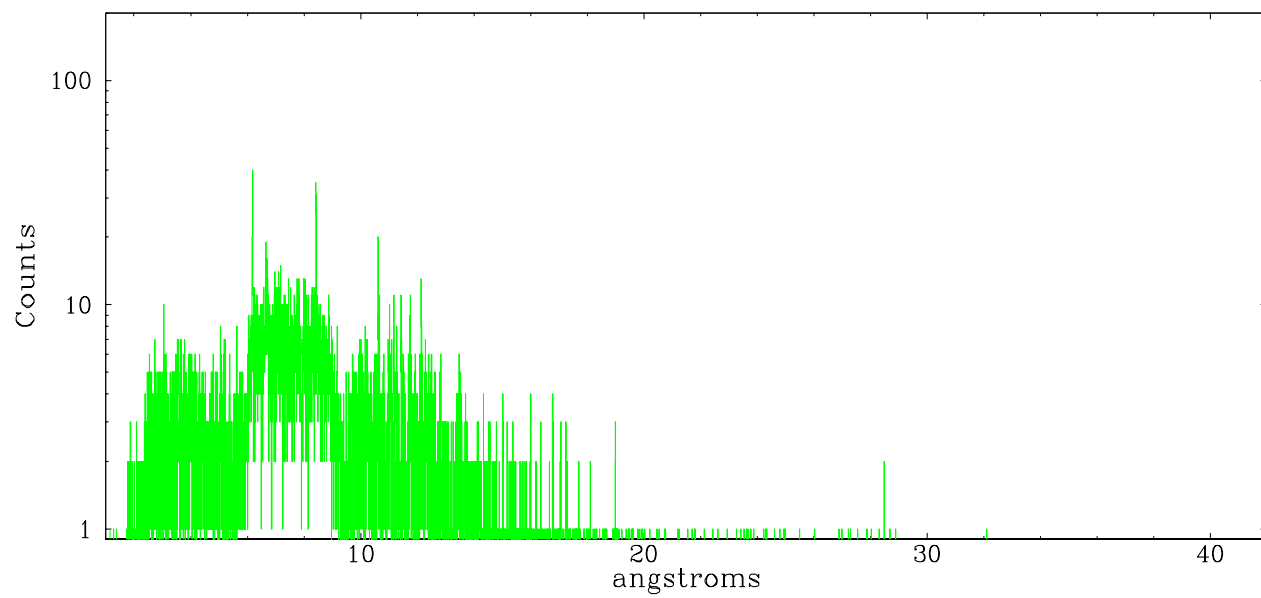
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1369	693	9122	16318	9587	678	1031



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2007.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	96.054

A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 96.054 ks.