

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 9 - L2 Version 001
Chandra X-Ray Center

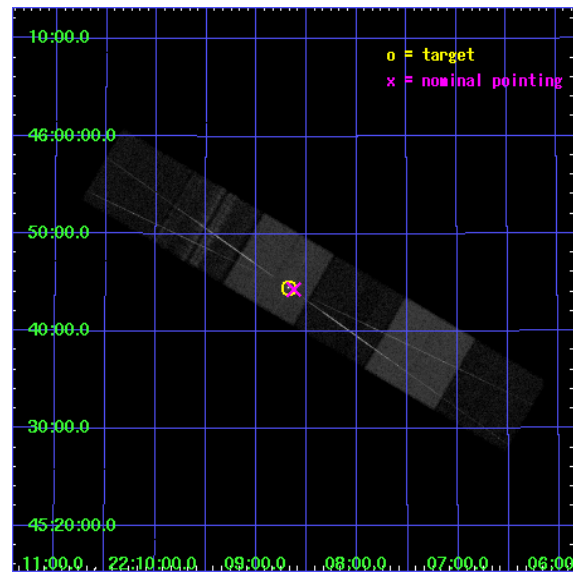
L2 Processing Date : Jun 8 2007

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1 Front

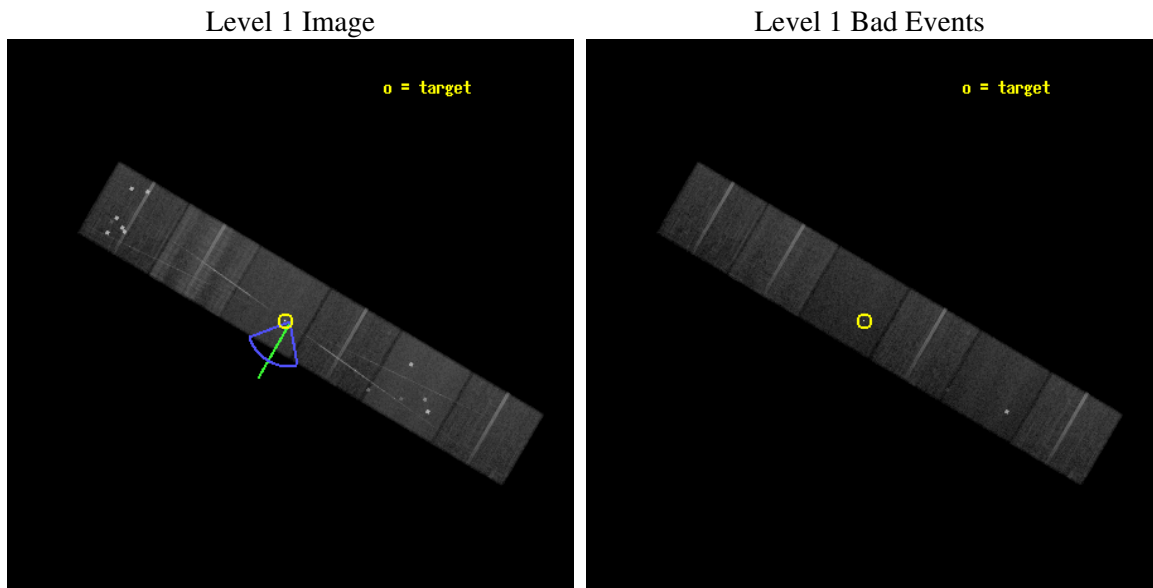
seq_num	200007
obs_id	9
title	STELLAR CORONAL SPECTROSCOPY OF COOL STARS
observer	Prof. Claude Canizares
object	AR LAC-4 ECLIPSE (2)
dtcycle	0
cycle	P
ra_targ	332.17
dec_targ	45.742222
ra_nom	332.15666174804
dec_nom	45.738846881955
roll_nom	210.40937394712
revision	2
ontime	32579.200030342
livetime	32166.662582718
ontime4	32579.200030342
ontime5	32579.200030342
ontime6	32579.200030342
ontime7	32579.200030342
ontime8	32572.718079925
ontime9	32575.959070101
l2events	330508



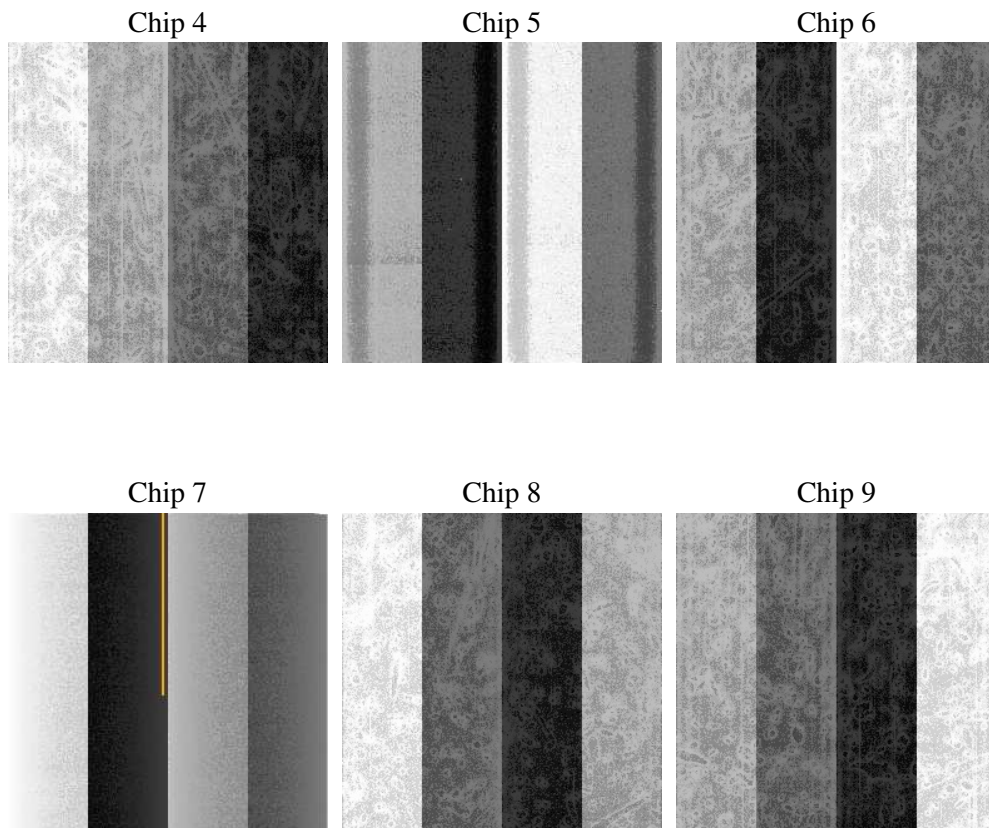
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-08T07:34:07
revision	2

sched_exp_time	32825.000000
ontime	32579.200030342
ontime4	32579.200030342
ontime5	32579.200030342
ontime6	32579.200030342
ontime7	32579.200030342
ontime8	32572.718079925
ontime9	32575.959070101
l1events	1461318

2.1.4 Events

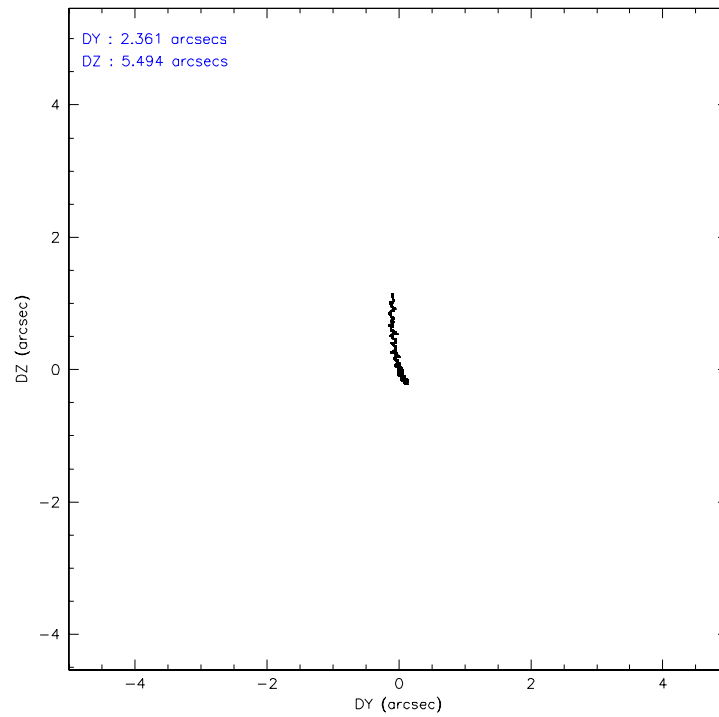
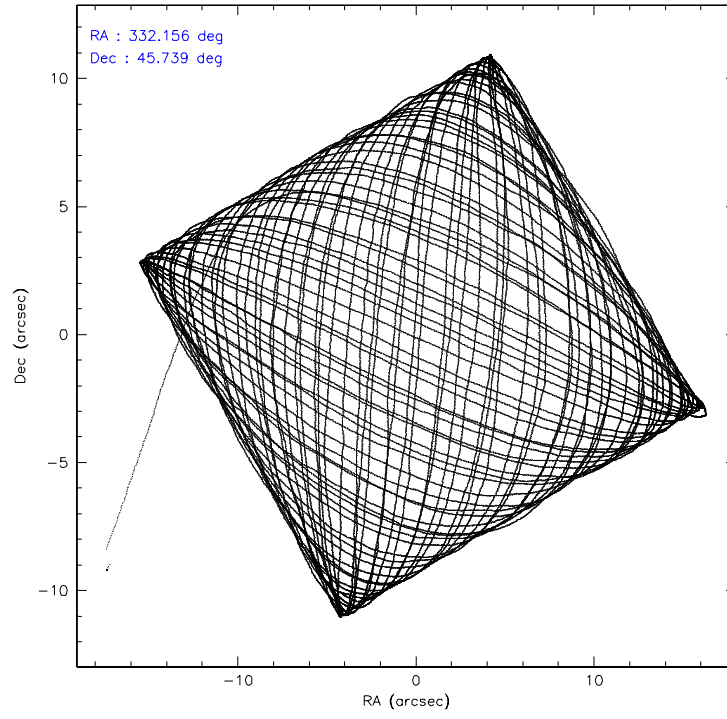
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	207501	266846	201510	235155	301489	248817
rejected events	179617	136629	165882	131059	194717	164123
rejected %	86%	51%	82%	55%	64%	65%

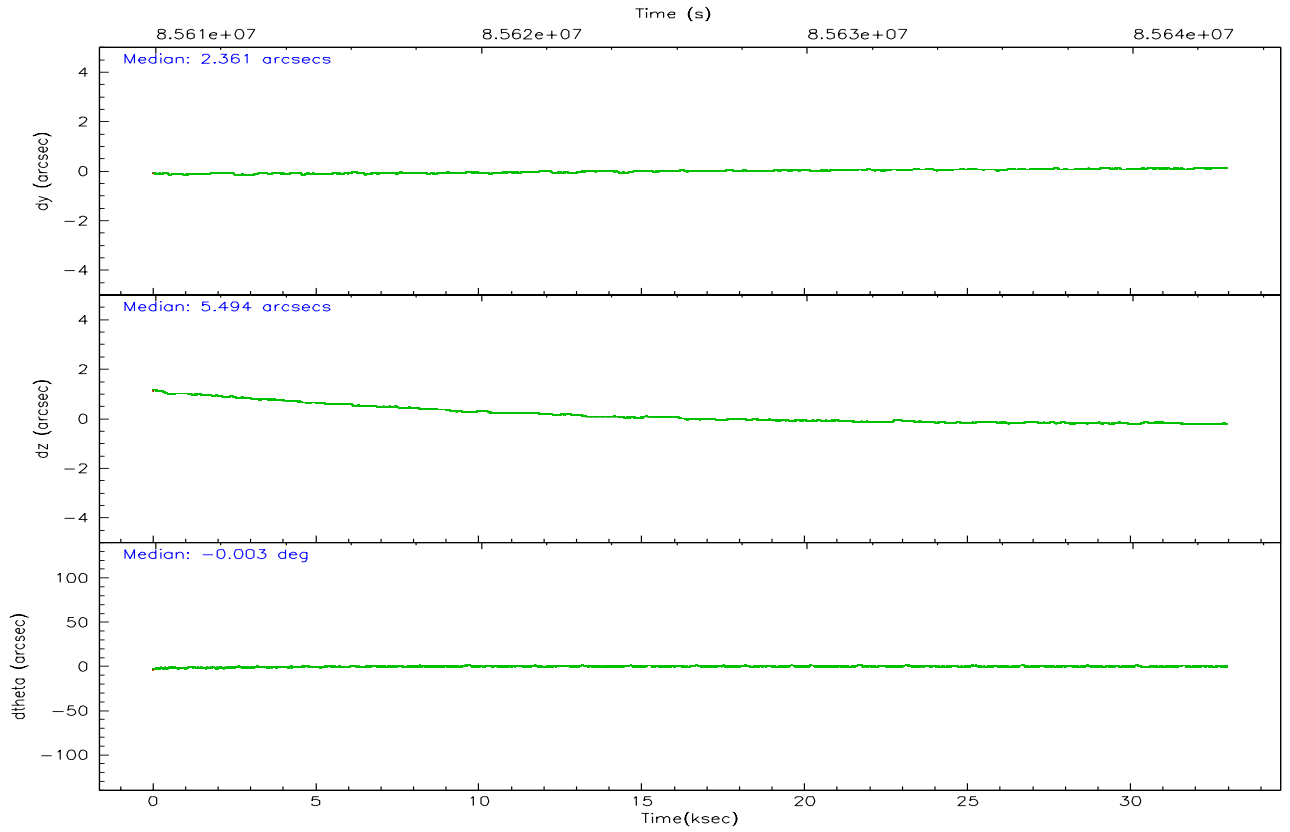
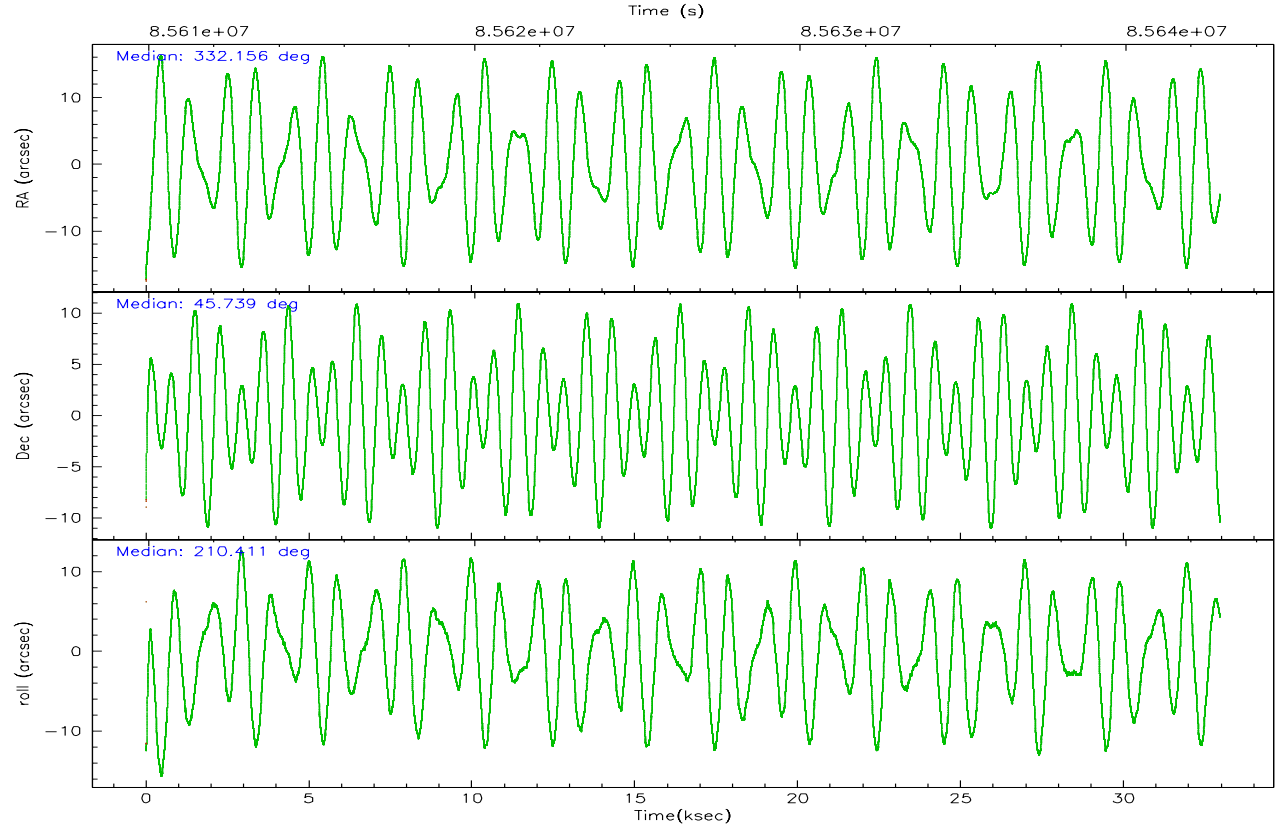
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	12194	23399	19924	10951	41272	50200
	5%	8%	9%	4%	13%	20%
grade 1 events	103	493	138	493	303	271
	0%	0%	0%	0%	0%	0%
grade 2 events	7085	37235	6258	21292	15483	25059
	3%	13%	3%	9%	5%	10%
grade 3 events	2031	6041	2393	9812	16168	2252
	0%	2%	1%	4%	5%	0%
grade 4 events	2115	5926	2365	9747	14368	2240
	1%	2%	1%	4%	4%	0%
grade 5 events	6149	19774	7218	22220	9827	7477
	2%	7%	3%	9%	3%	3%
grade 6 events	4468	57634	4691	52306	19484	4950
	2%	21%	2%	22%	6%	1%
grade 7 events	173356	116344	158523	108334	184584	156368
	83%	43%	78%	46%	61%	62%

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	332.175820	332.1566617480401	Subarray requested	NONE	NONE
Pointing Dec	45.762724	45.73884688195479	Alternating exposures requested	N	N
Pointing Roll	210.239033	210.4093739471174	Primary exposure time	3.200000	3.2
Roll angle	210.000000	210.000000			
Roll tolerance	40.000000	40.000000			
Roll constraint allows 180D rotation	N	N			
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			
Phase constraints	Y	Y			
Phase period	1.983180	1.983180			
Phase epoch	48501.123200	48501.123200			
Phase start	0.898000	0.898000			
Phase end	0.102000	0.102000			
Phase start error	0.022000	0.022000			
Phase end error	0.022000	0.022000			
Observation start time	85610064.184000	85608132.59374			
Observation start date	2000-09-17T20:33:20	2000-09-17T20:02:12			
Observation end	85642889.184000	85644581.08261099			

2.3 Aspect



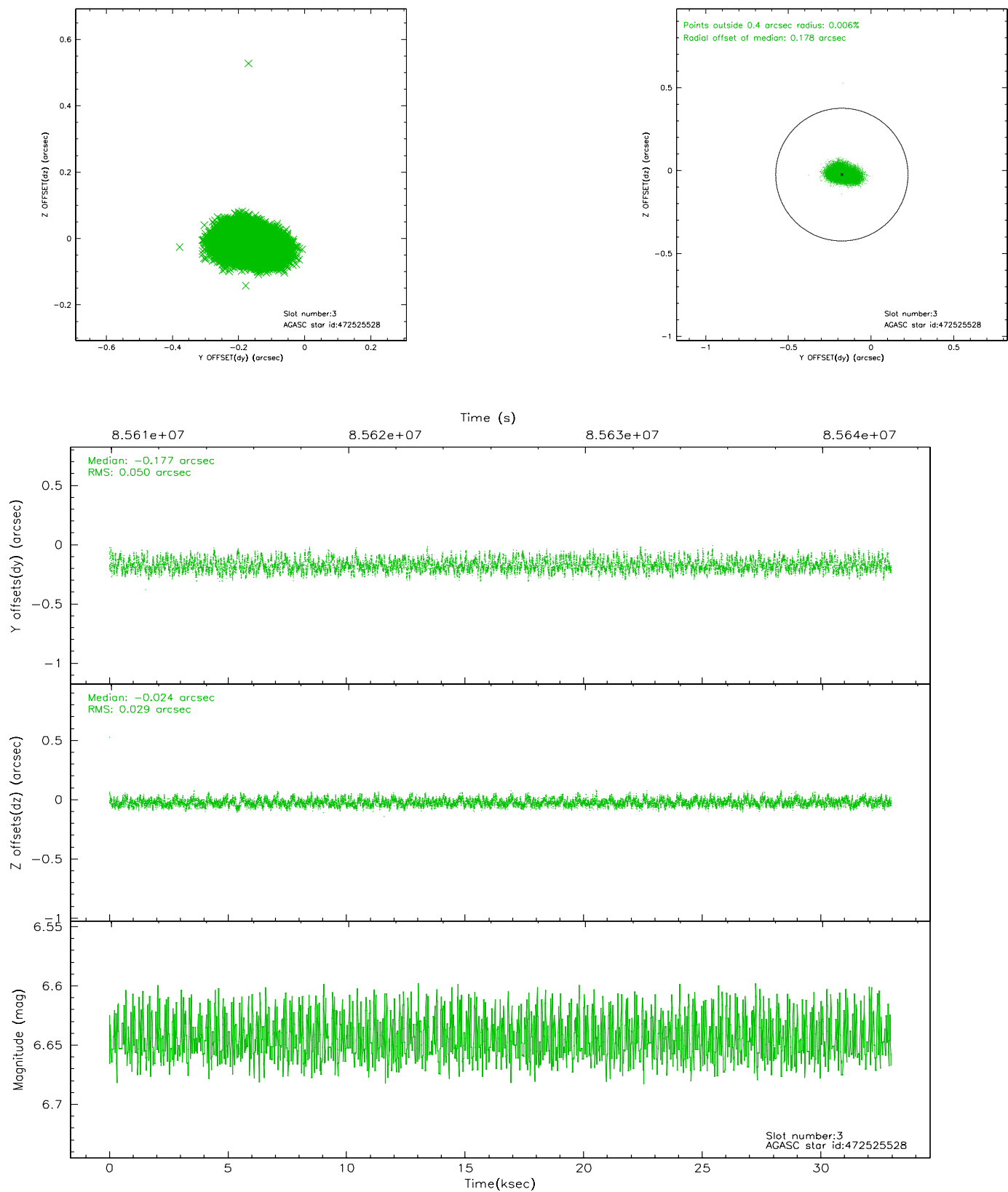


Slot Statistics

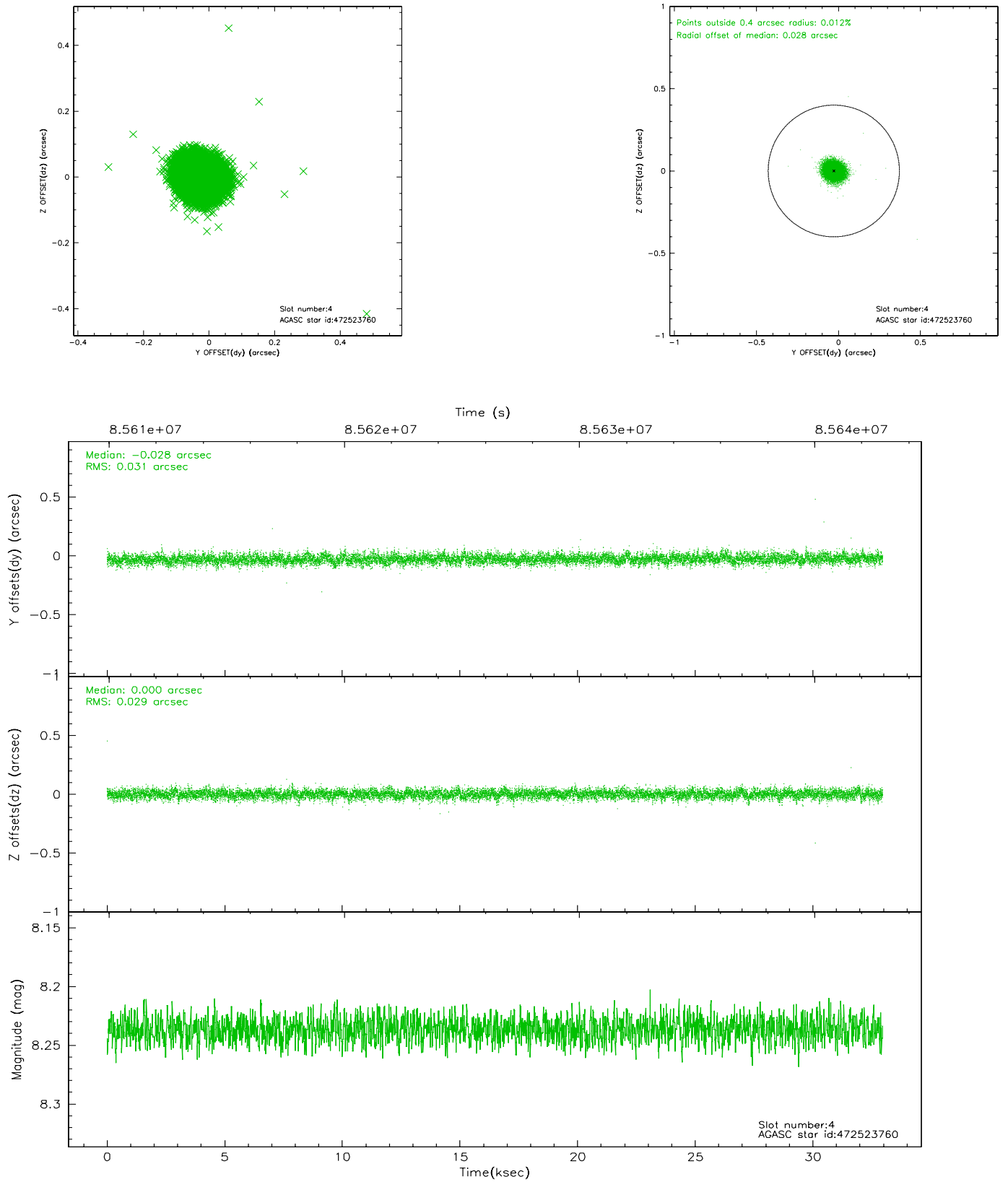
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	8039	-0.014	-0.028	0.014	0.038	0.000000	0.000000	-754.82	-1788.94
1	FID	ACIS-S-4	7.20	8041	-0.055	0.014	0.008	0.016	0.000000	0.000000	2158.42	119.47
2	FID	ACIS-S-5	7.23	8041	0.038	0.022	0.012	0.026	0.000000	0.000000	-1807.51	113.27
3	GUIDE	472525528	6.65	16080	-0.177	-0.024	0.061	0.100	331.551102	45.248694	2296.30	796.76
4	GUIDE	472523760	8.24	16079	-0.028	0.000	0.044	0.073	331.645363	45.403260	1807.66	439.75
5	GUIDE	472665256	9.00	16079	0.106	0.021	0.064	0.102	332.808125	46.195041	-2148.30	-555.53
6	GUIDE	472659832	9.45	16058	0.061	0.121	0.080	0.130	332.780399	46.098139	-1915.23	-287.12
7	GUIDE	472655152	9.43	16070	0.030	-0.120	0.089	0.144	332.504239	45.862991	-894.32	102.05

2.4 Star Slots

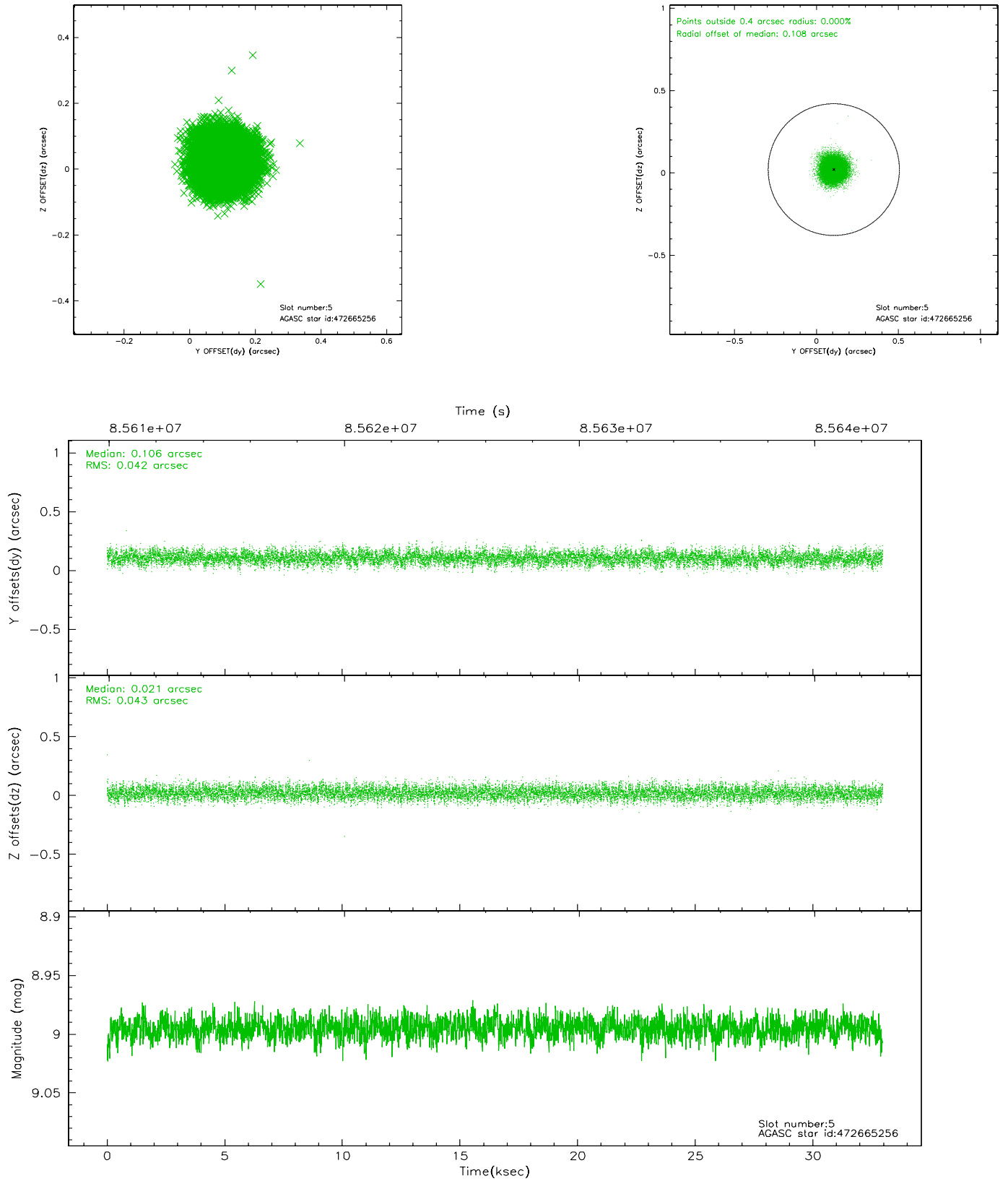
2.4.1 Slot 3



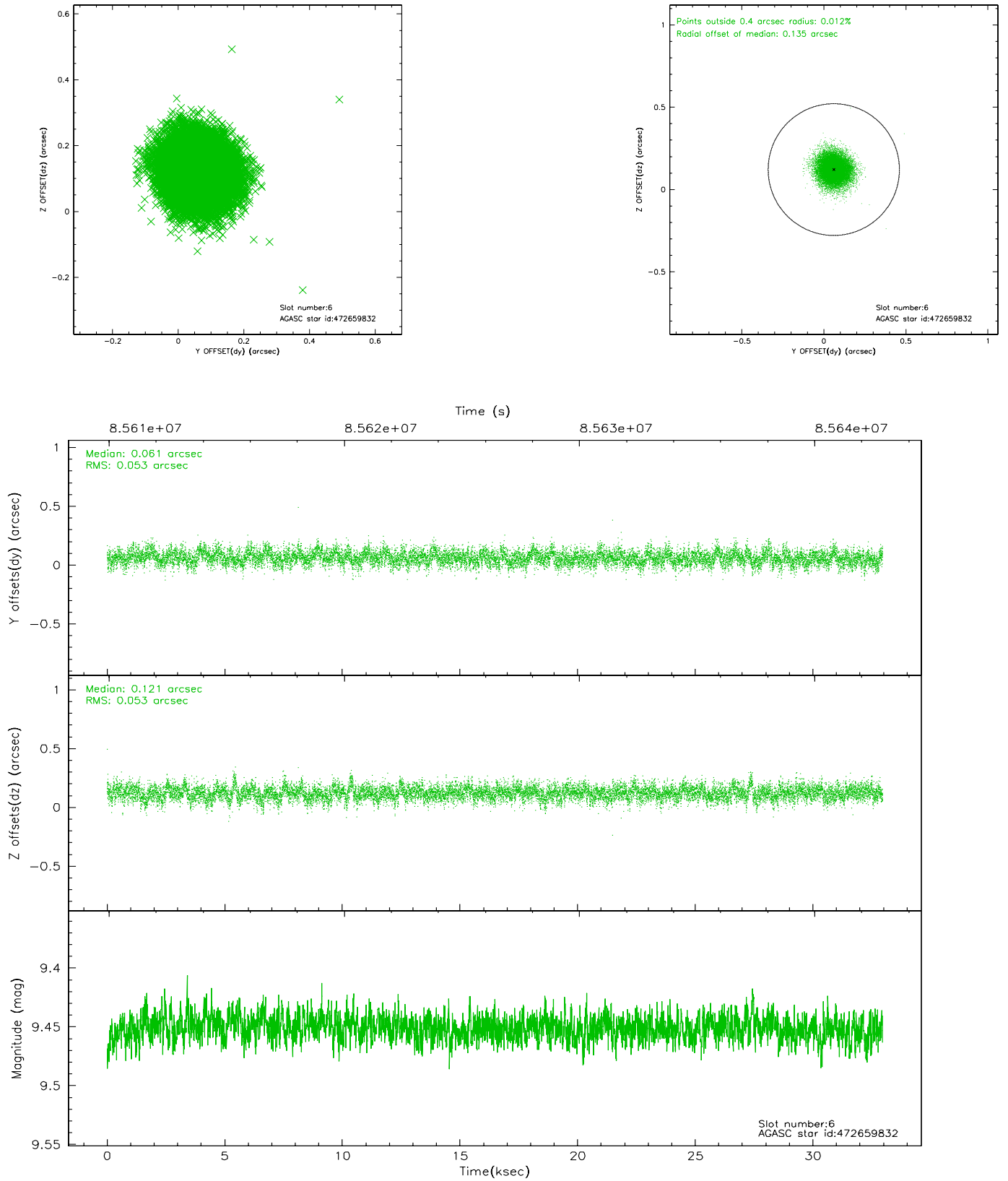
2.4.2 Slot 4



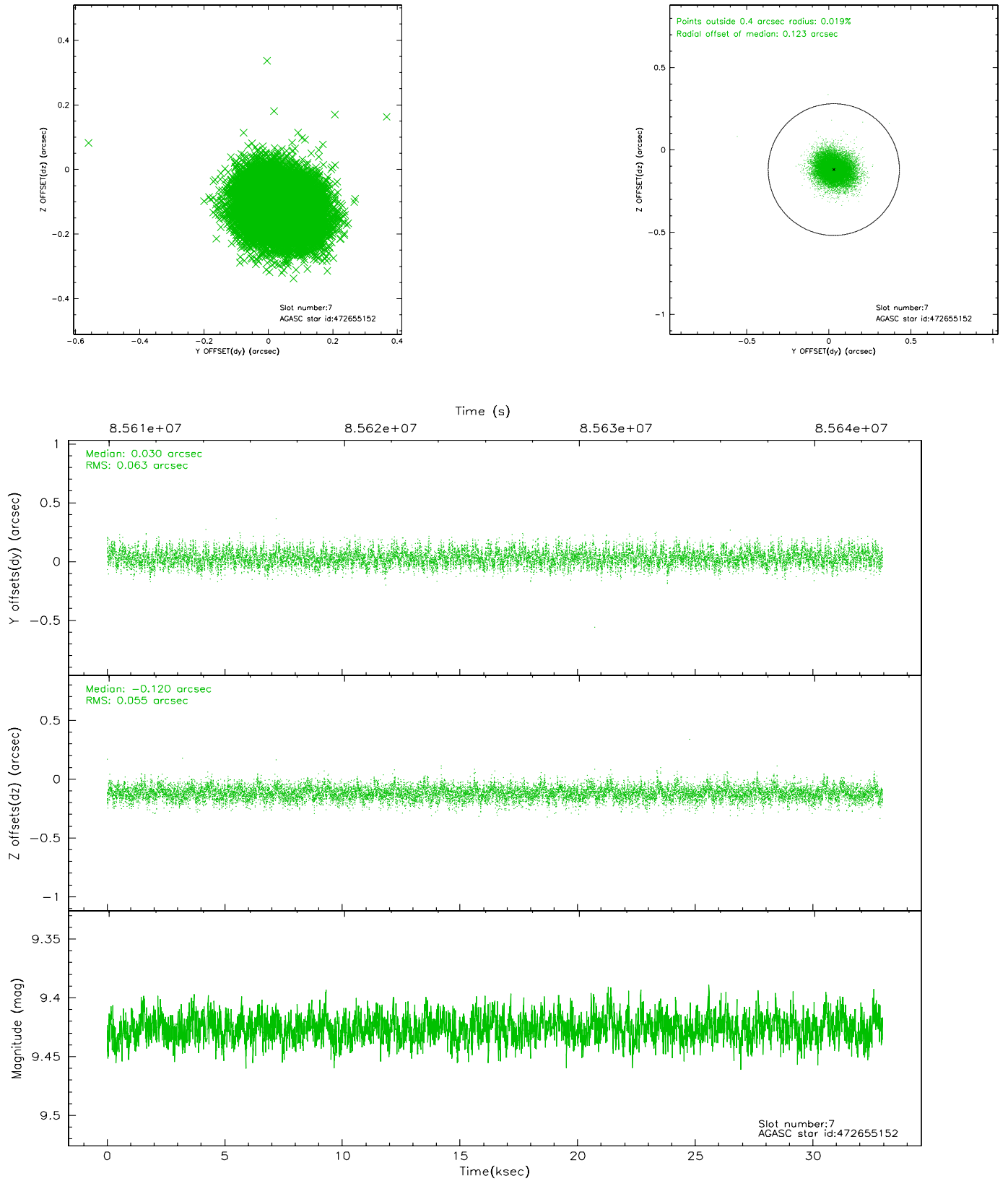
2.4.3 Slot 5



2.4.4 Slot 6

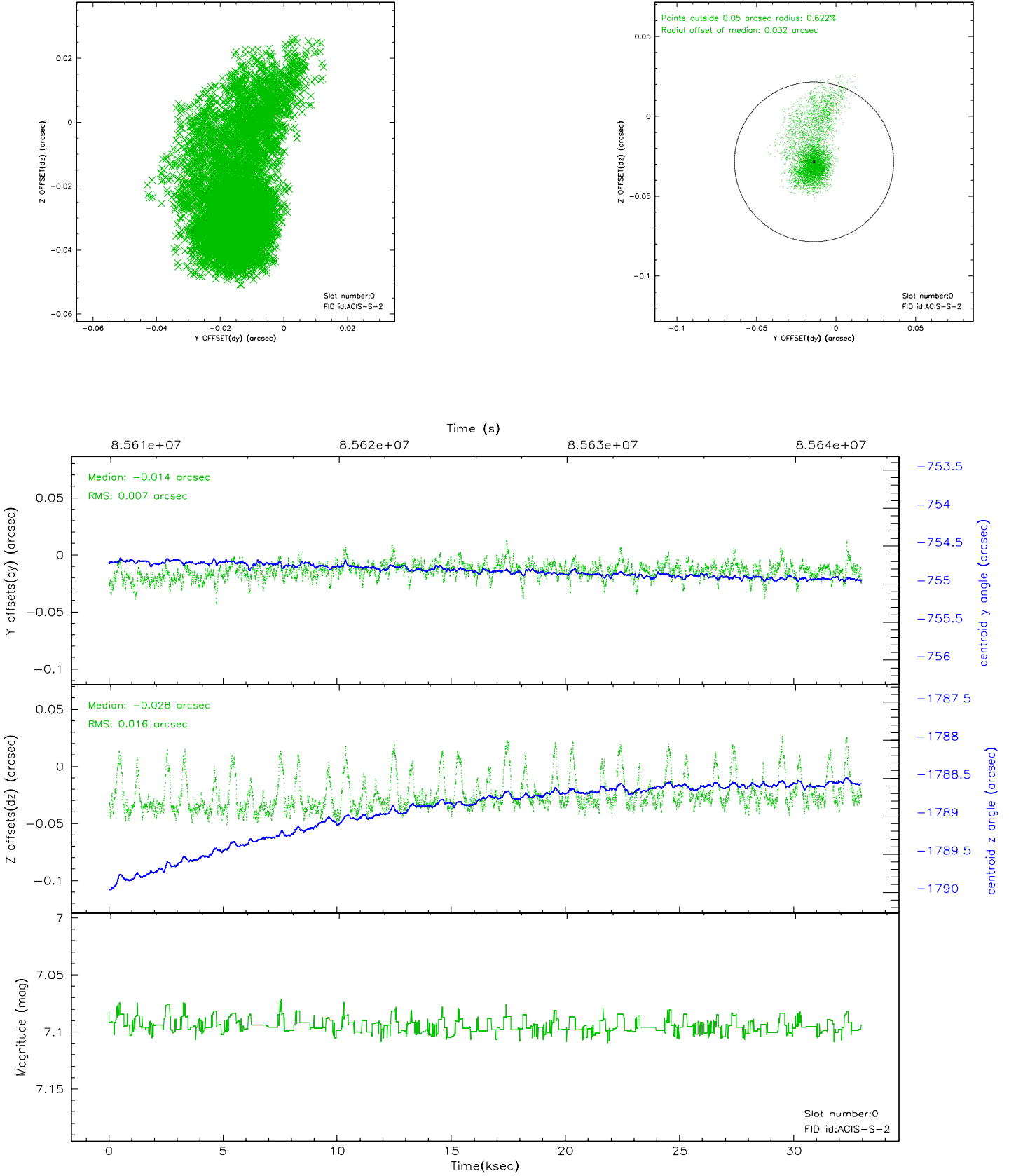


2.4.5 Slot 7

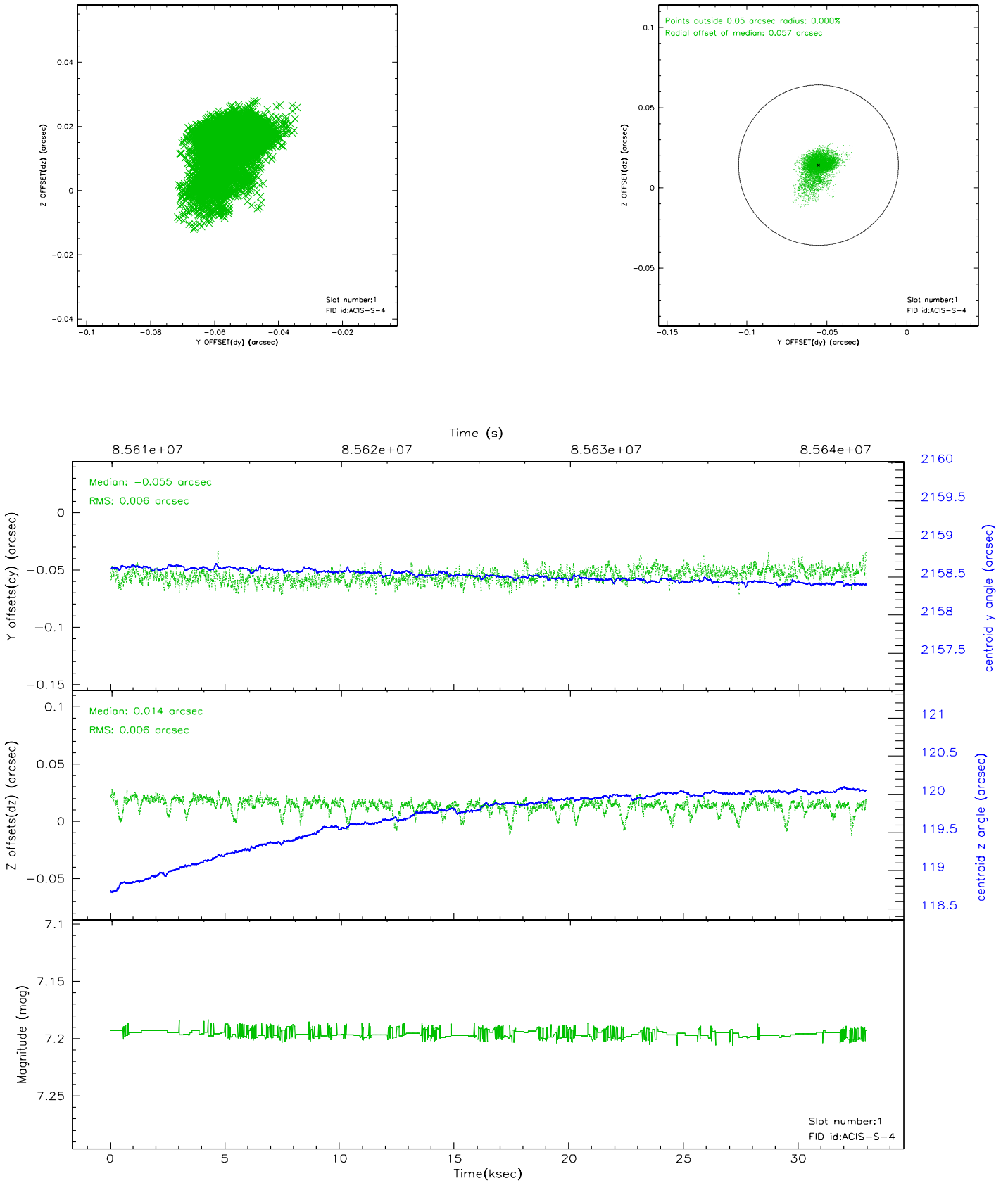


2.5 FID Slots

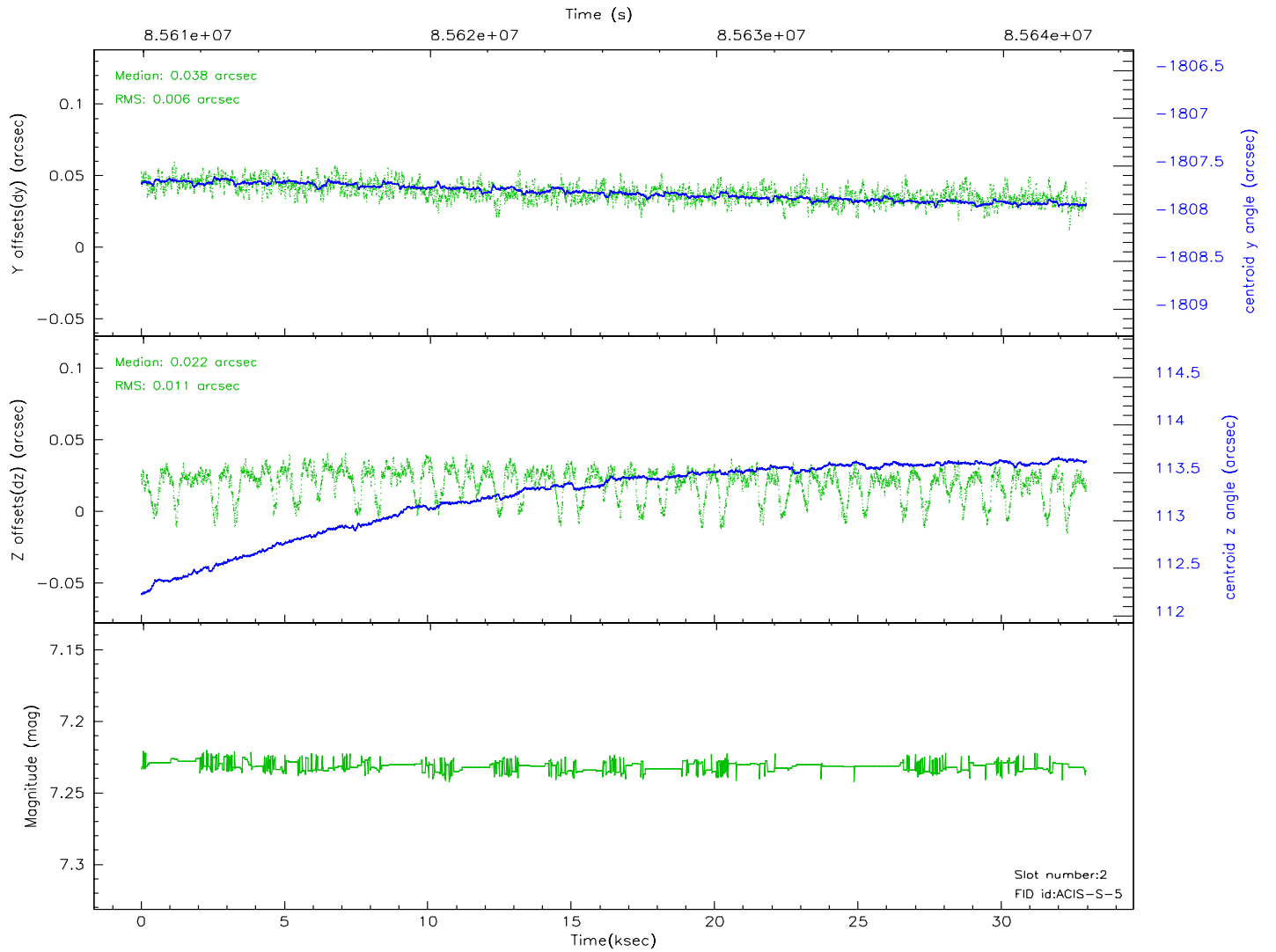
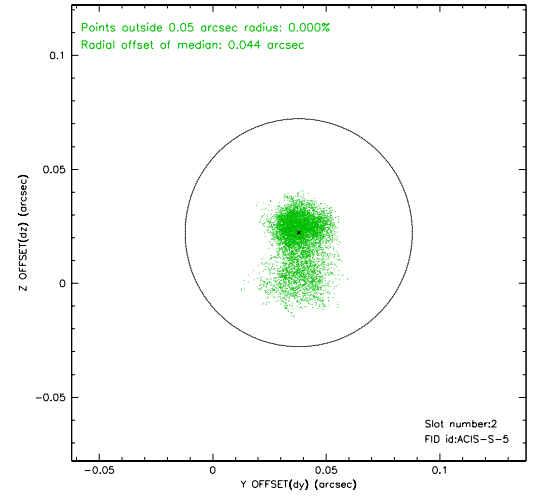
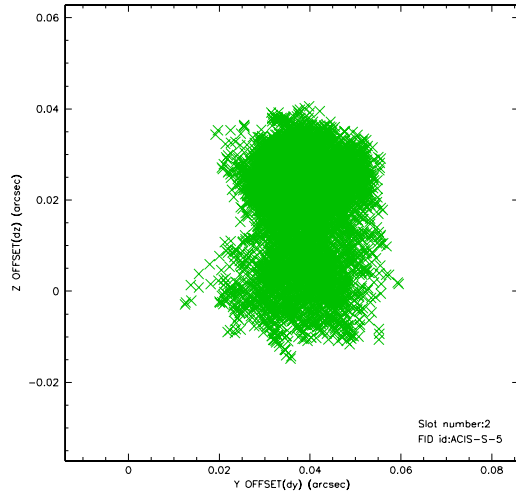
2.5.1 Slot 0



2.5.2 Slot 1

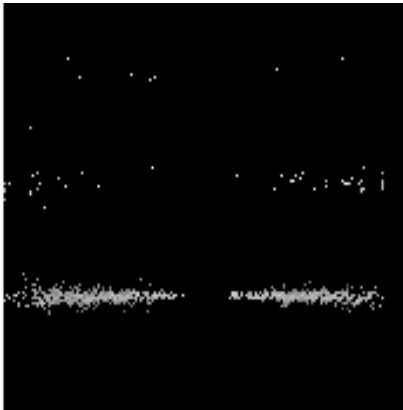


2.5.3 Slot 2

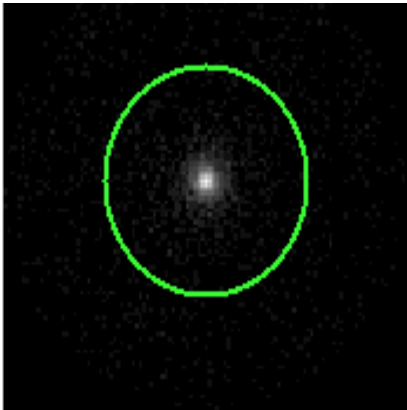


3 Gratings

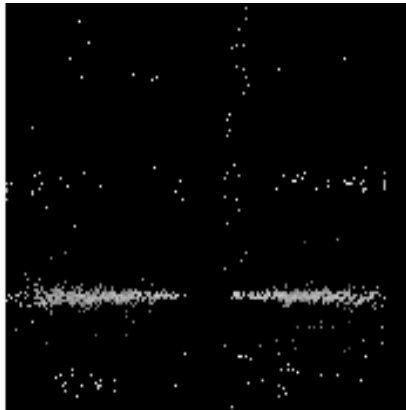
3.1 HEG Arm



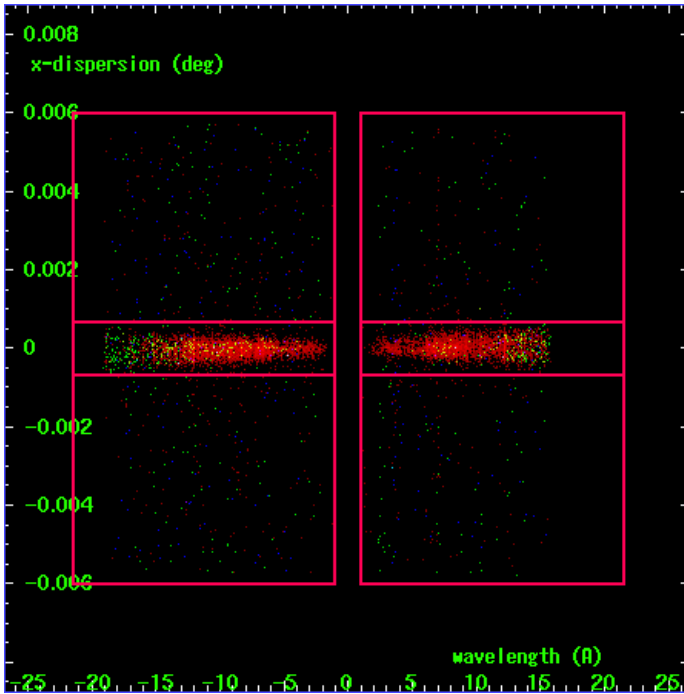
HEG Order Sort 123



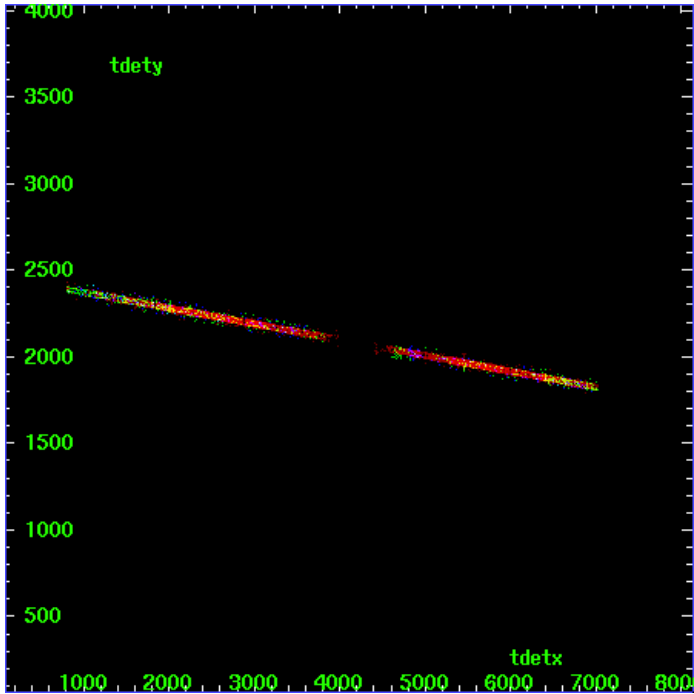
HEG Zero Order



HEG Order Sort ALL

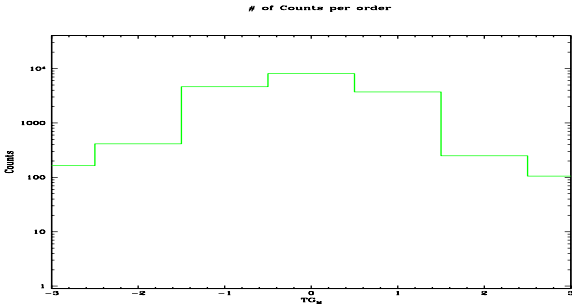


Spot Image HEG

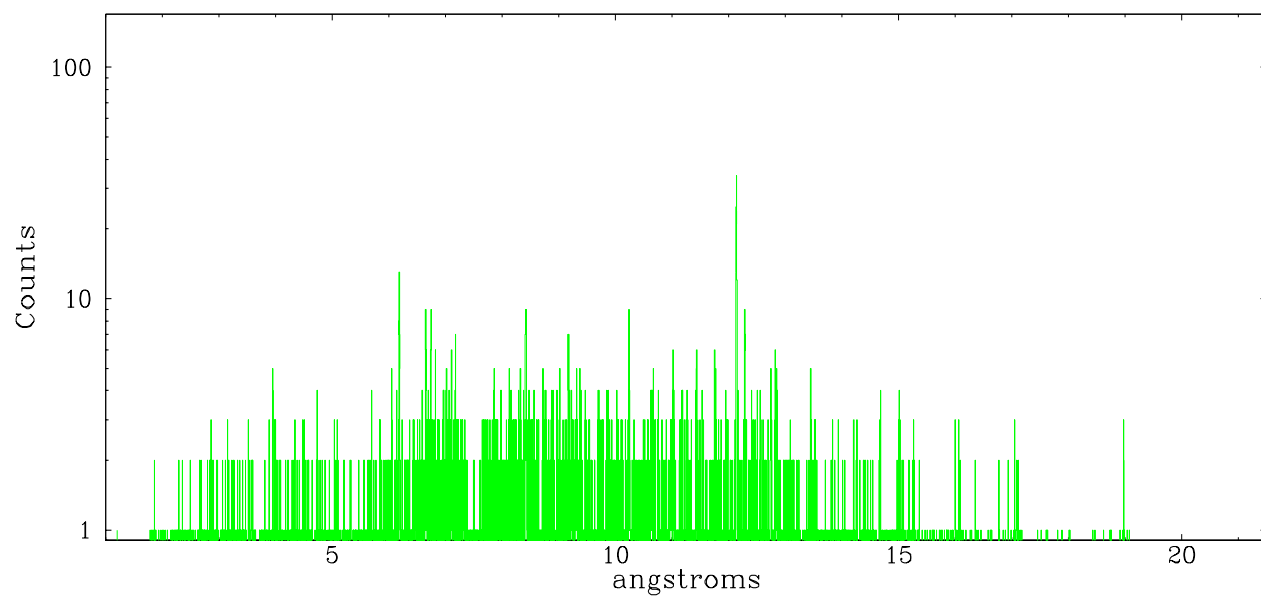


Full Detector HEG

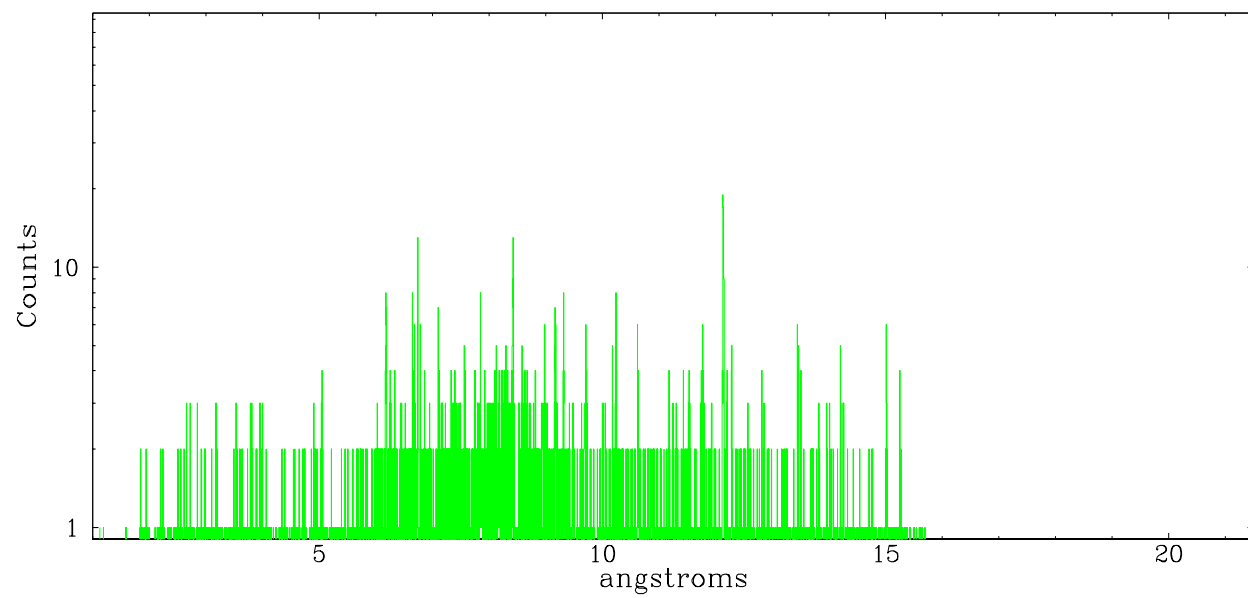
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	164	412	4644	8058	3714	249	105



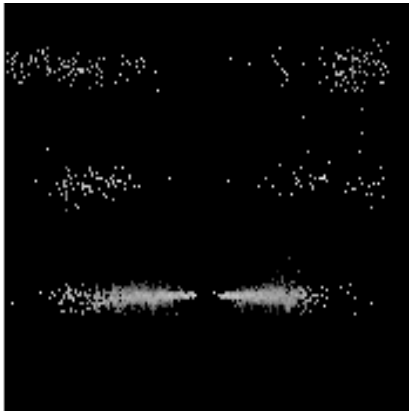
heg order -1



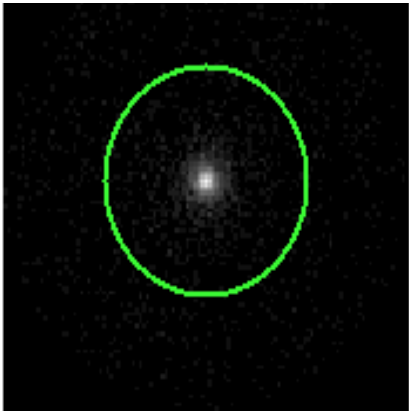
heg order +1



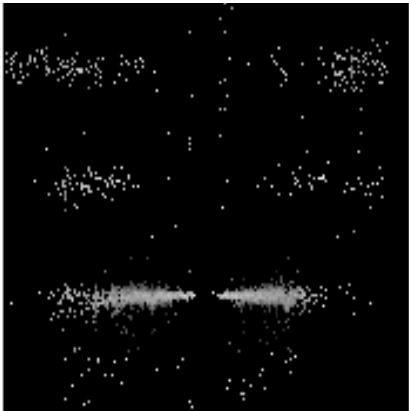
3.2 MEG Arm



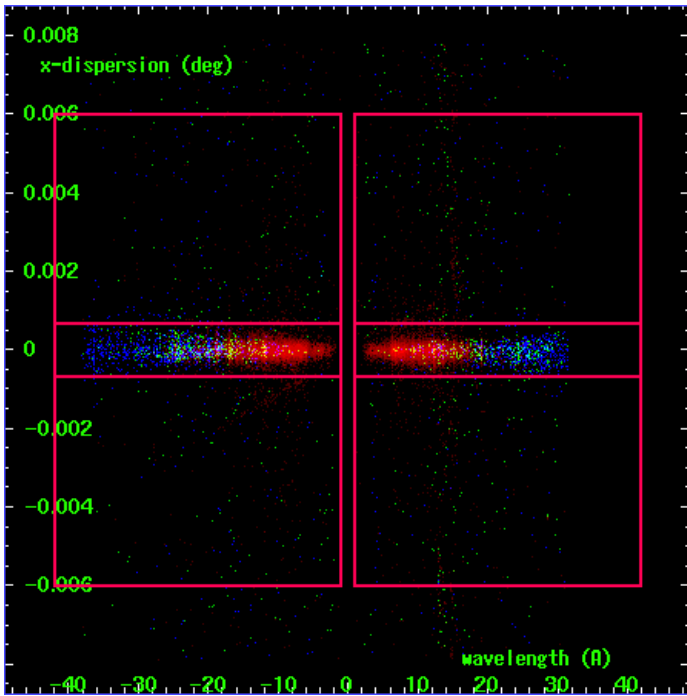
MEG Order Sort 123



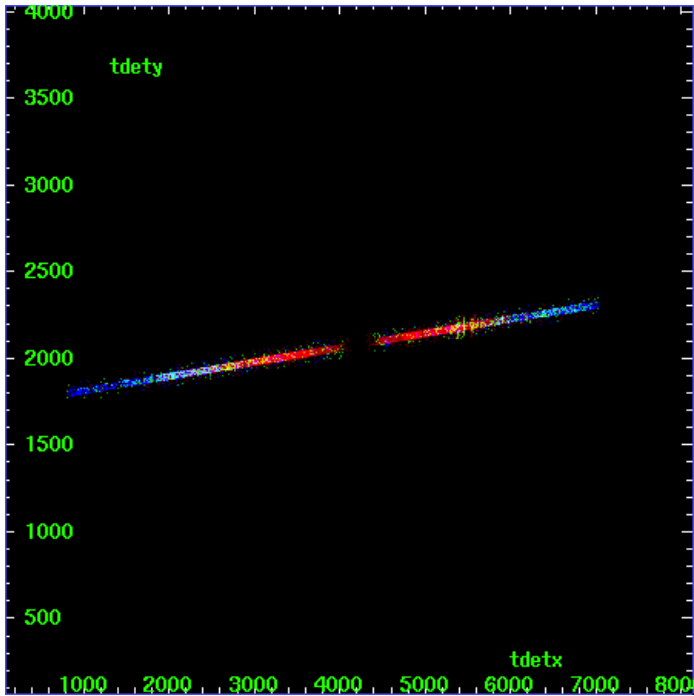
MEG Zero Order



MEG Order Sort ALL

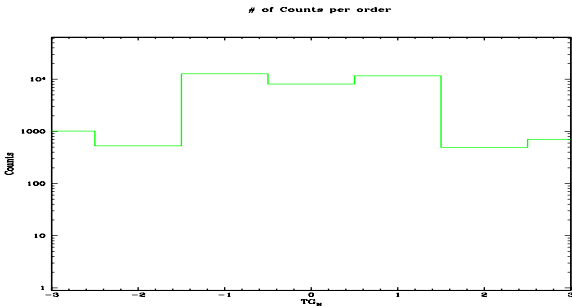


Spot Image MEG

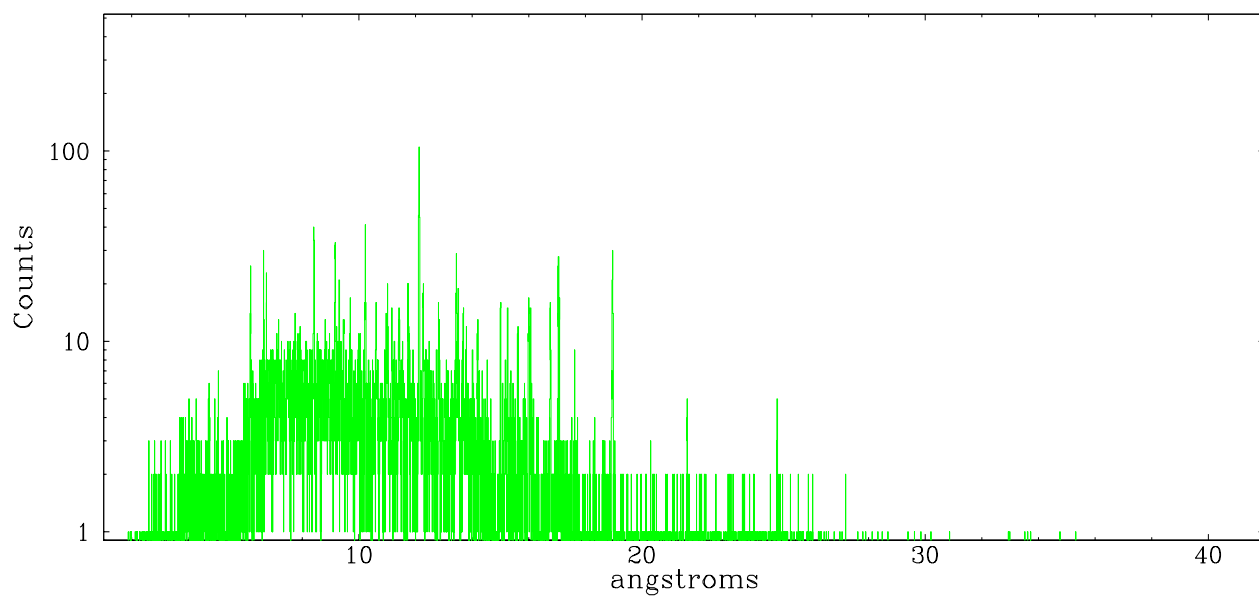


Full Detector MEG

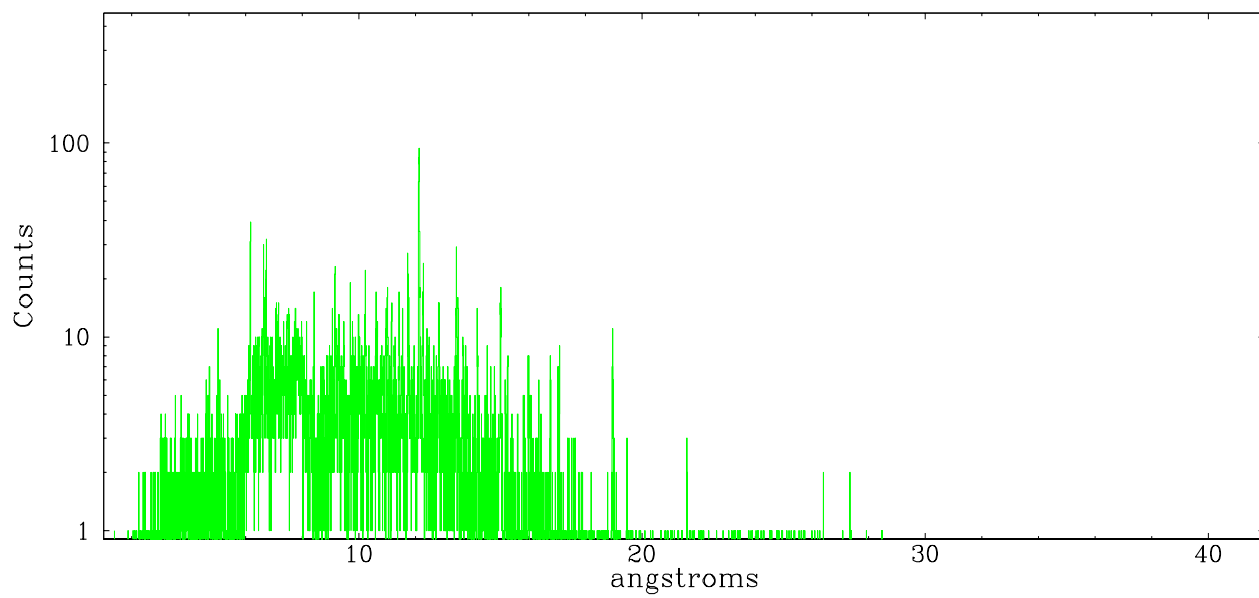
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1011	529	12748	8058	11599	496	703



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2007.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.582

A.2 Comments

Caveat: due to an 0.5 day observer error on the ephemeris, comments on the phase in the header 'OBJECT' are wrong.