

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2811 - L2 Version 001
Chandra X-Ray Center

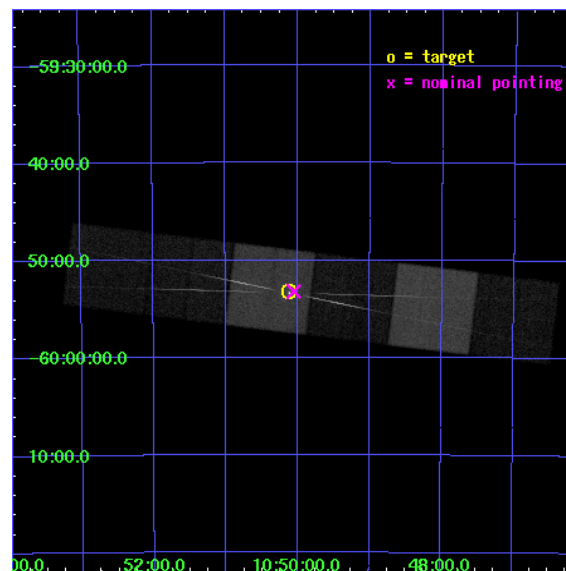
L2 Processing Date : Dec 6 2006

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1 Front

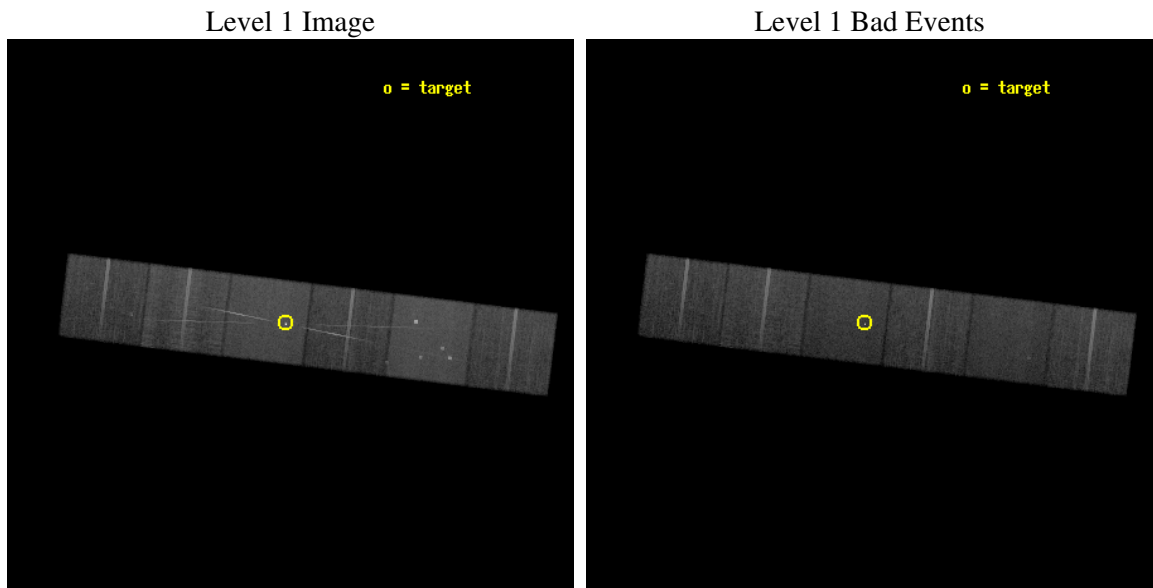
seq_num	500261
obs_id	2811
title	SEARCHING FOR PROTON CYCLOTRON FEATURES IN TWO MAGNETAR CANDIDATES
observer	PROFESSOR LUIGI STELLA
object	1E1048-59
dtcycle	0
cycle	P
ra_targ	162.5325
dec_targ	-59.8875
ra_nom	162.51323229779
dec_nom	-59.886933160764
roll_nom	186.8793298678
revision	2
ontime	29331.199890733
livetime	28959.790576588
ontime4	29331.199890733
ontime5	29331.199890733
ontime6	29331.199890733
ontime7	29331.199890733
ontime8	29331.199890733
ontime9	29331.199890733
l2events	297093



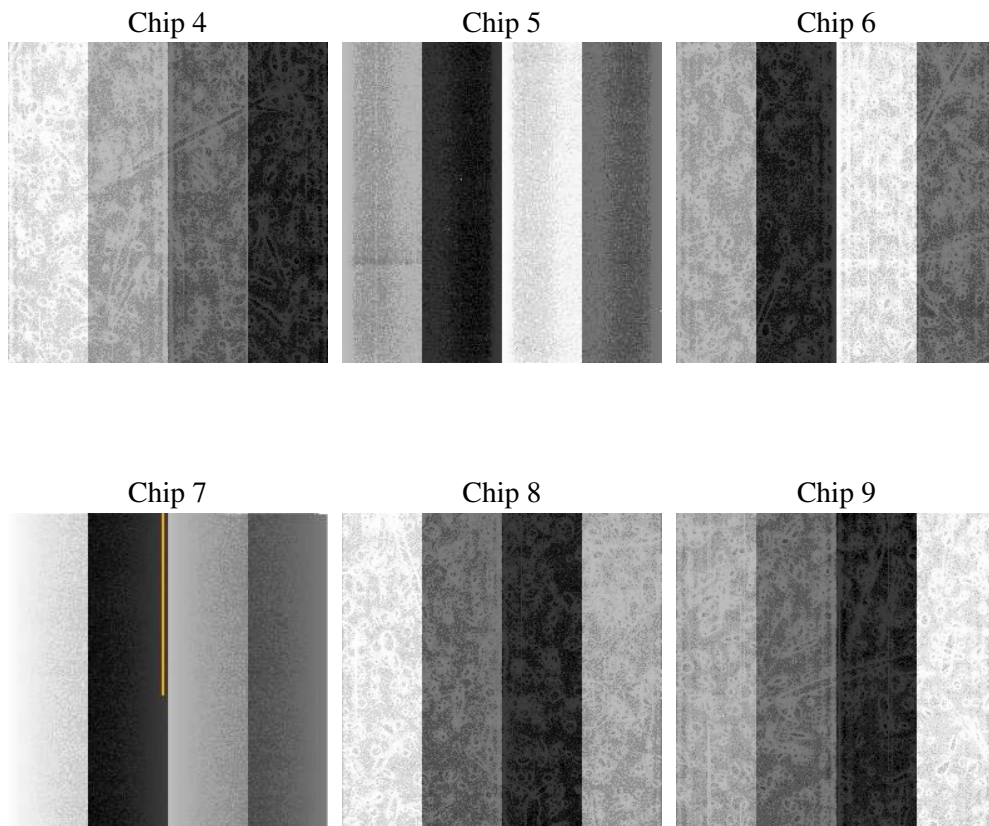
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-28T20:40:31
revision	2

sched_exp_time	29609.037000
ontime	29337.531790257
ontime4	29337.531790257
ontime5	29337.531810194
ontime6	29340.772800386
ontime7	29337.531790257
ontime8	29340.772800386
ontime9	29340.772800386
l1events	1289389

2.1.4 Events

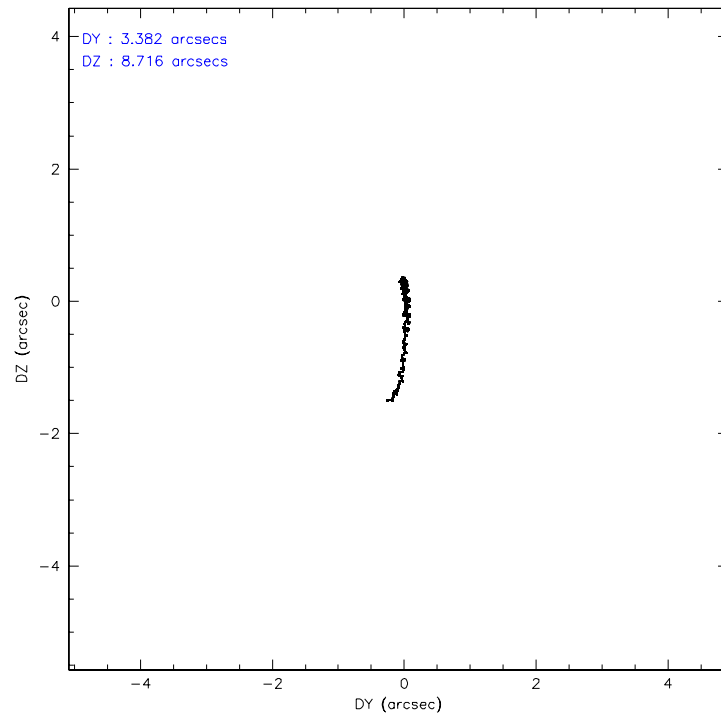
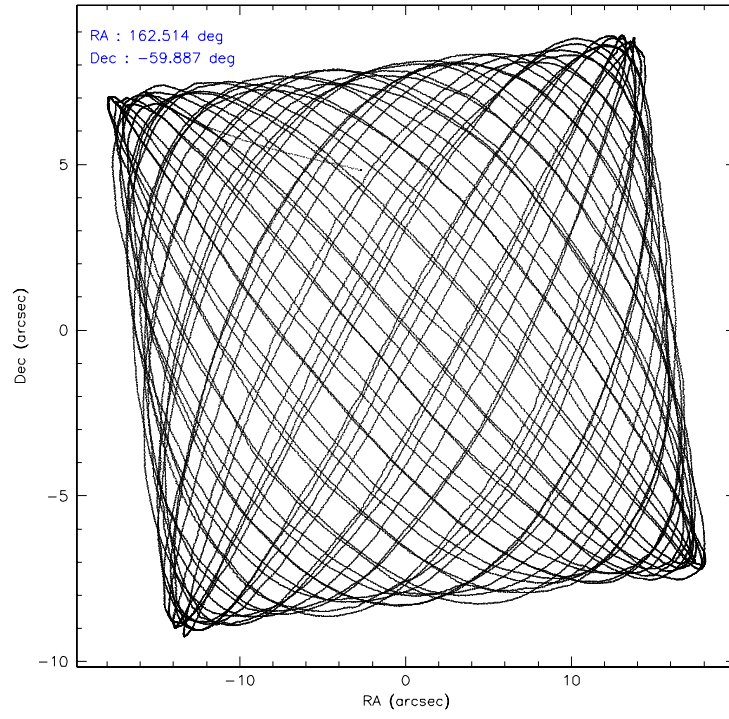
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	195588	257643	188361	245449	230060	172288
rejected events	171670	139985	157068	142730	175918	149974
rejected %	87%	54%	83%	58%	76%	87%

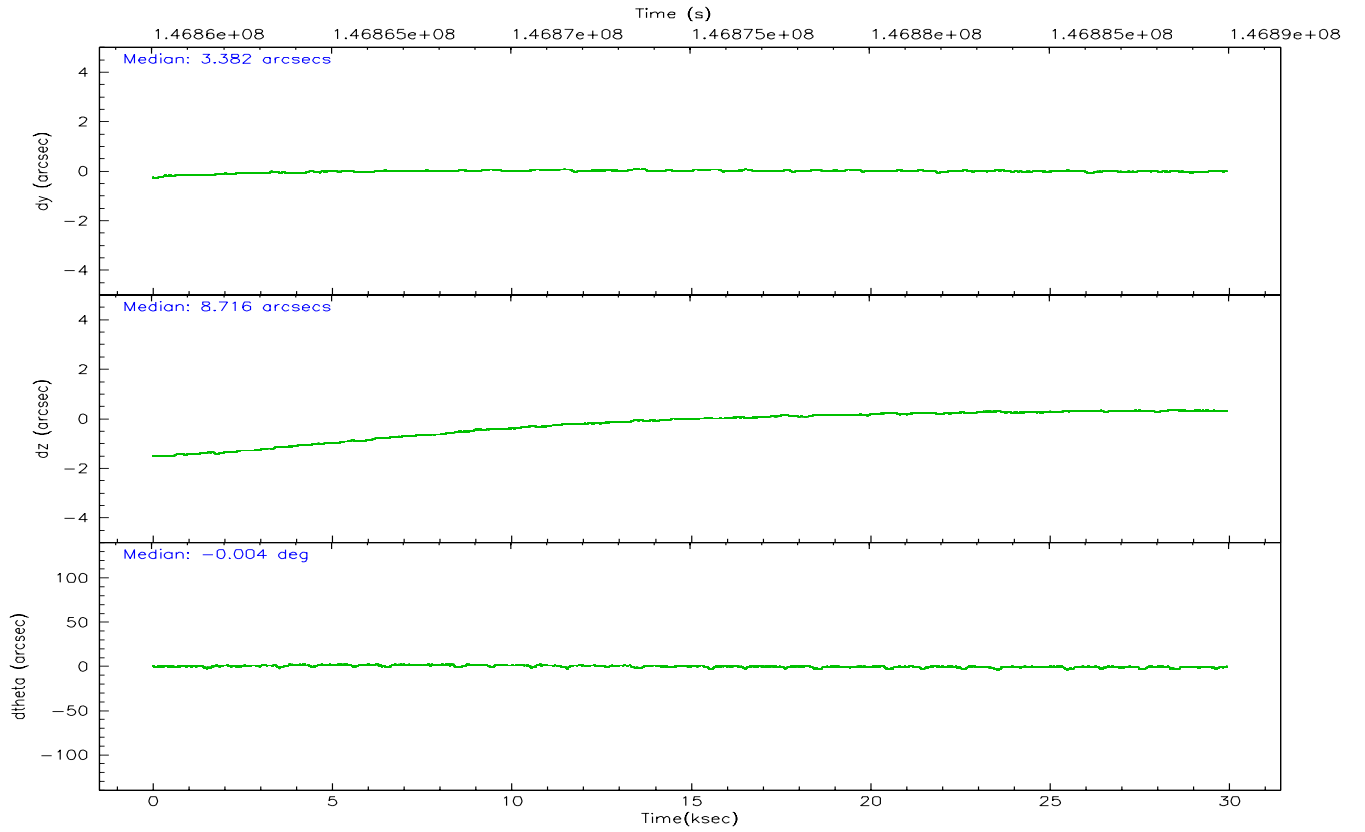
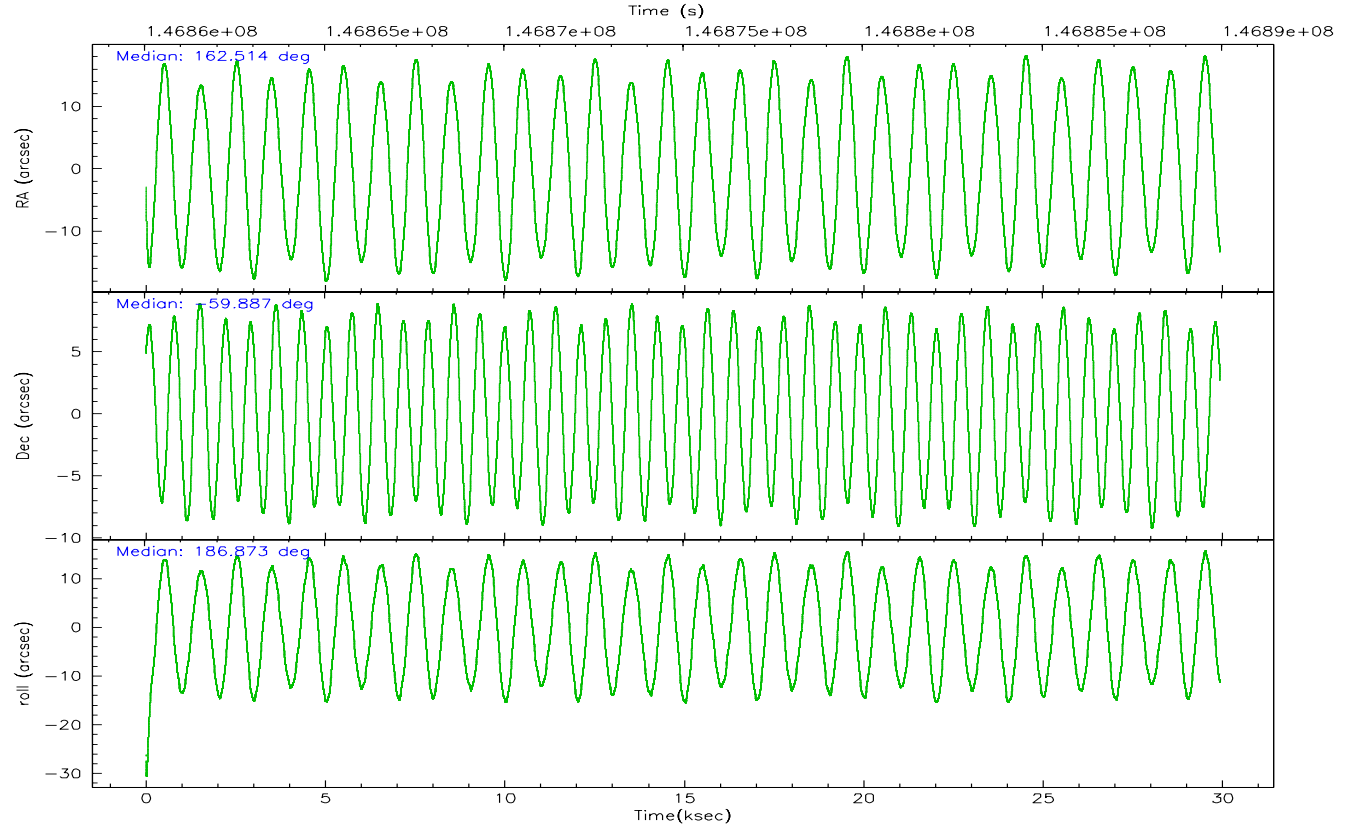
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	11431	14066	16814	7616	19762	9811
	5%	5%	8%	3%	8%	5%
grade 1 events	165	421	124	221	161	101
	0%	0%	0%	0%	0%	0%
grade 2 events	4674	35347	5290	25710	10520	4191
	2%	13%	2%	10%	4%	2%
grade 3 events	2324	2883	2491	6073	5873	2186
	1%	1%	1%	2%	2%	1%
grade 4 events	2162	2768	2340	6051	5518	2111
	1%	1%	1%	2%	2%	1%
grade 5 events	7183	12229	7700	15641	10024	8199
	3%	4%	4%	6%	4%	4%
grade 6 events	3330	62621	4366	57286	12478	4024
	1%	24%	2%	23%	5%	2%
grade 7 events	164319	127308	149236	126851	165724	141665
	84%	49%	79%	51%	72%	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	162.556216	162.5132322977864	Subarray requested	NONE	NONE
Pointing Dec	-59.870319	-59.88693316076395	Alternating exposures requested	N	N
Pointing Roll	186.759892	186.8793298677962	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	146860355.184000	146859324.97674			
Observation start date	2002-08-27T18:31:31	2002-08-27T18:15:24			
Observation end time	146889964.184000	146890278.95302			
Observation end date	2002-08-28T02:45:00	2002-08-28T02:51:18			
Read mode	TIMED	TIMED			

2.3 Aspect



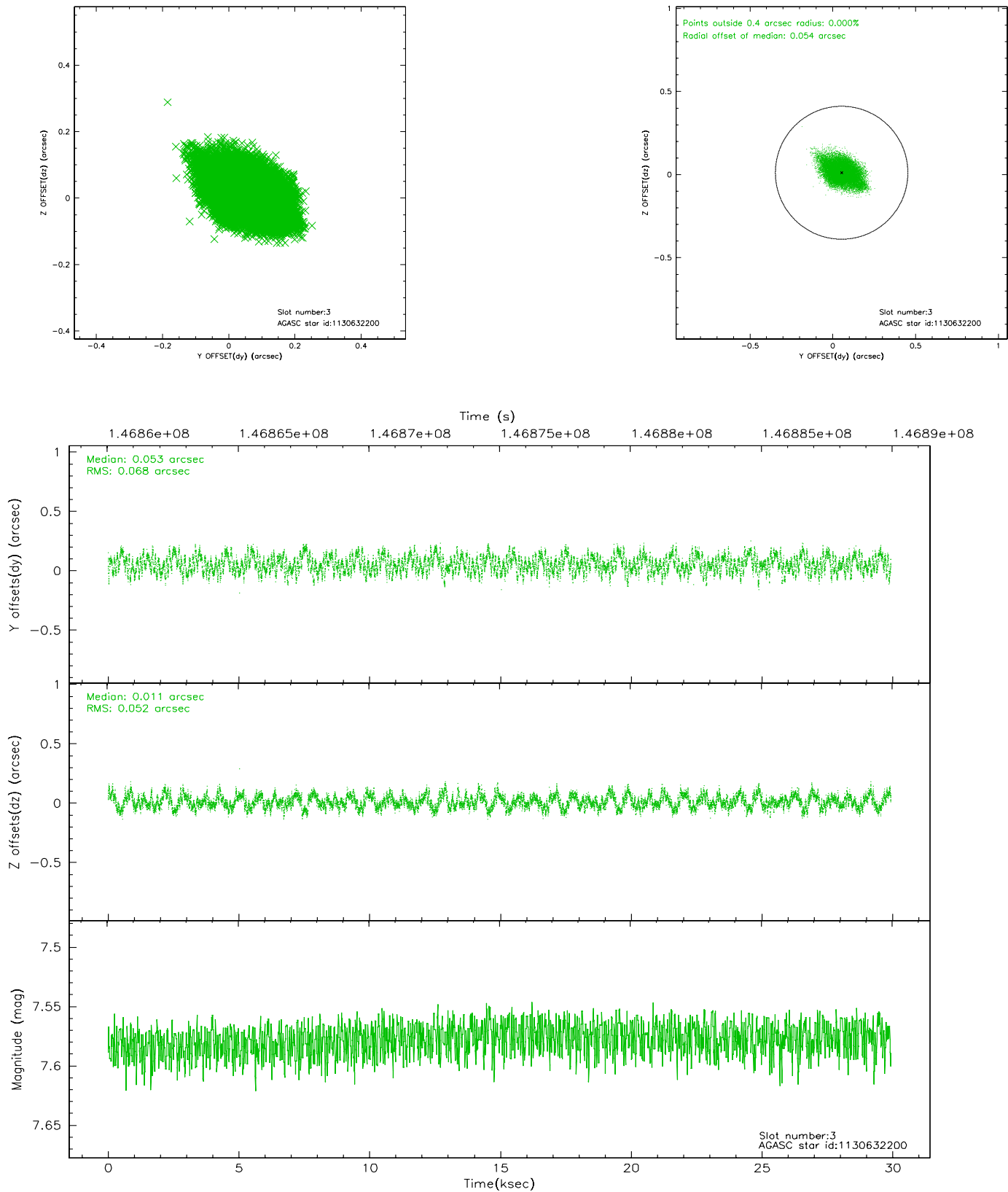


Slot Statistics

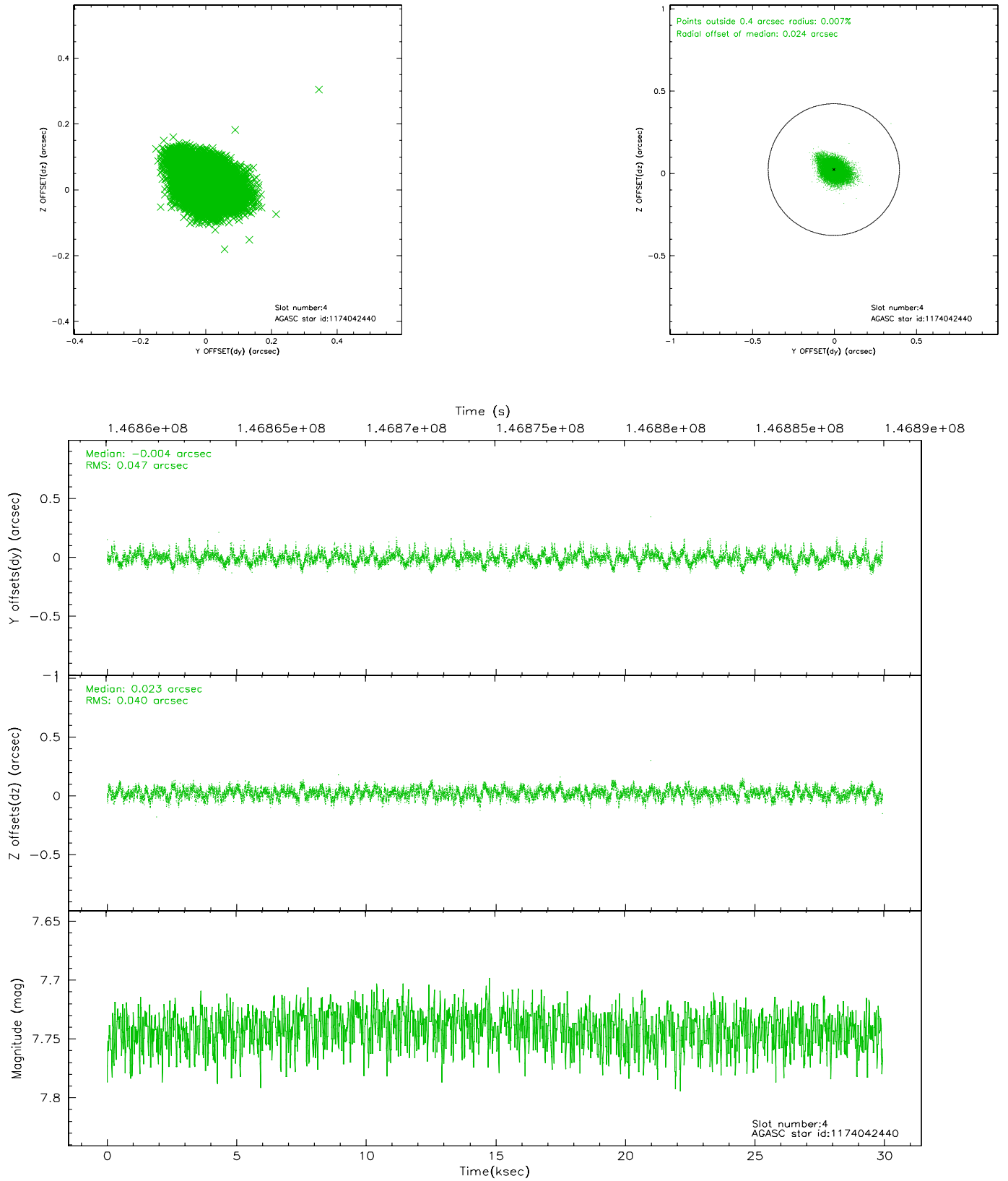
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7300	-0.008	0.016	0.013	0.022	0.000000	0.000000	-756.03	-1729.61
1	FID	ACIS-S-4	7.20	7300	-0.029	-0.001	0.015	0.033	0.000000	0.000000	2157.19	178.78
2	FID	ACIS-S-5	7.23	7301	0.006	-0.007	0.011	0.035	0.000000	0.000000	-1808.77	172.53
3	GUIDE	1130632200	7.58	14601	0.053	0.011	0.091	0.147	161.433843	-59.407820	1849.39	-1877.62
4	GUIDE	1174042440	7.74	14601	-0.004	0.023	0.065	0.109	162.157370	-60.223757	859.16	1182.12
5	GUIDE	1174166216	8.03	14602	-0.088	-0.016	0.084	0.147	163.522199	-60.352910	-1501.36	1940.42
6	GUIDE	1130640208	8.90	14598	-0.097	-0.076	0.090	0.146	163.152122	-59.182387	-1381.28	-2324.84
7	GUIDE	1174025248	8.79	14596	0.127	0.056	0.085	0.139	161.784801	-60.573378	1654.64	2361.25

2.4 Star Slots

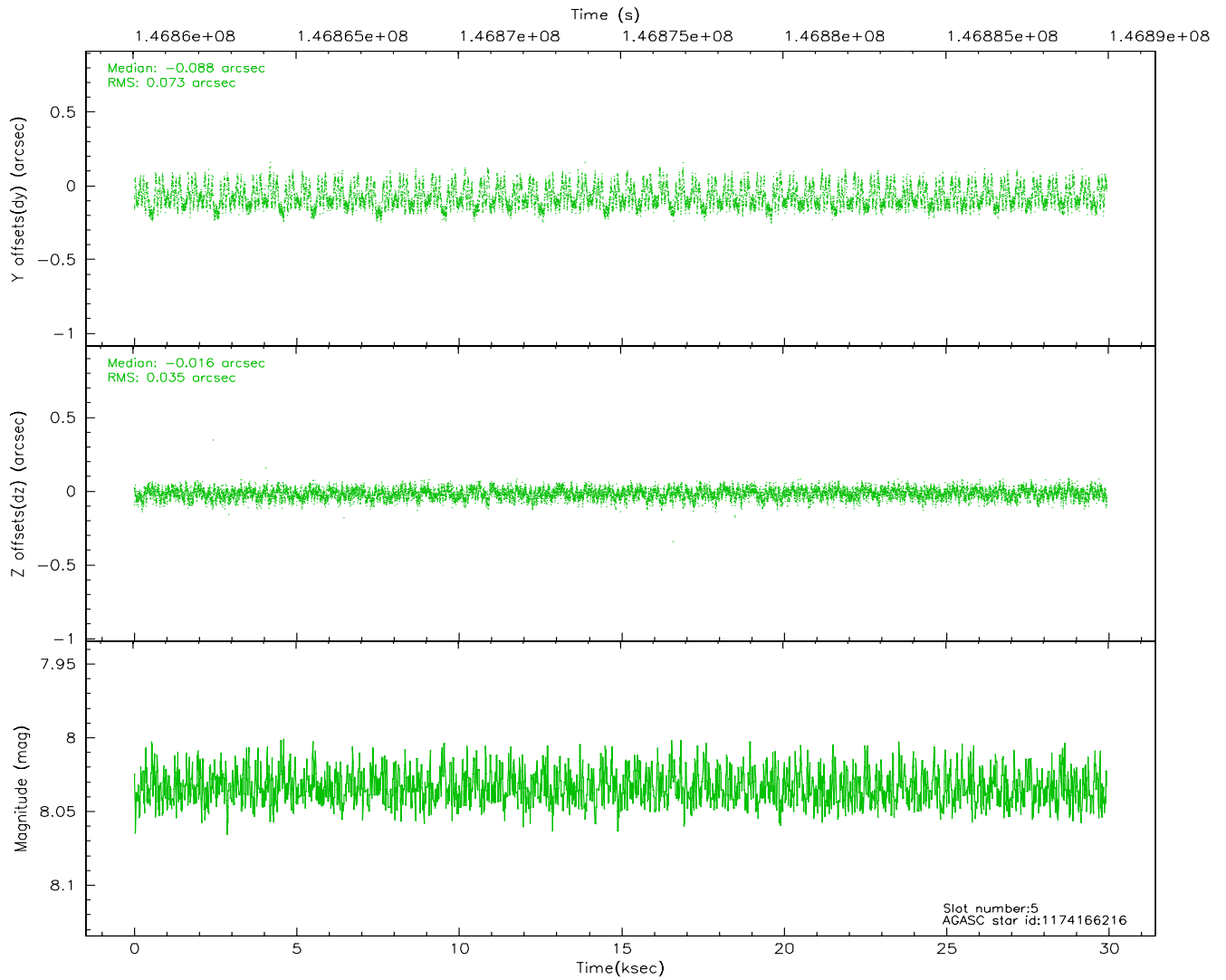
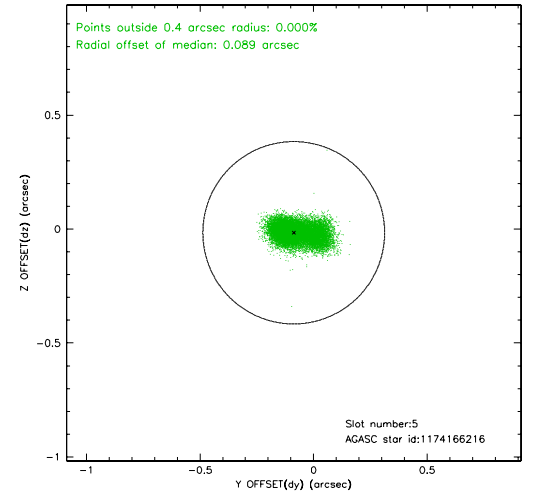
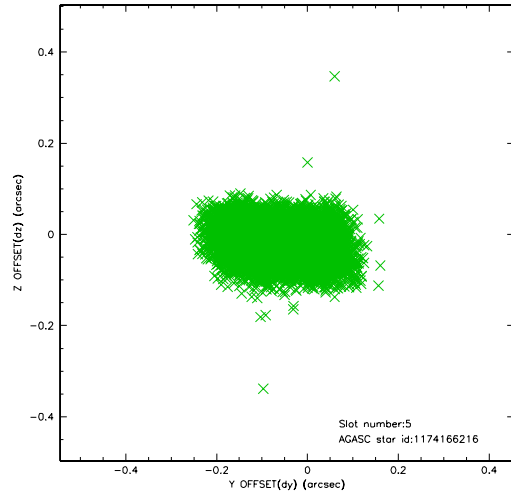
2.4.1 Slot 3



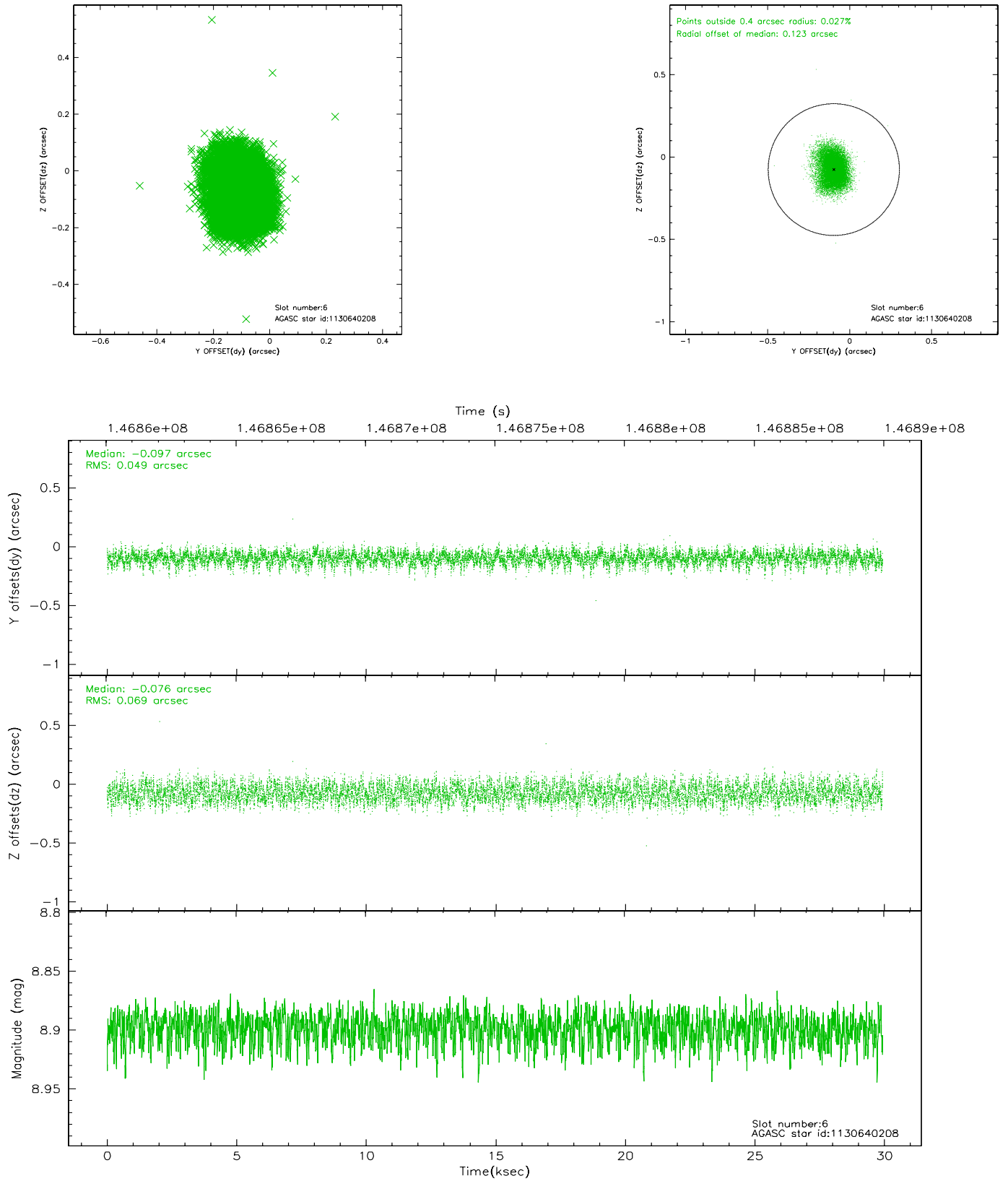
2.4.2 Slot 4



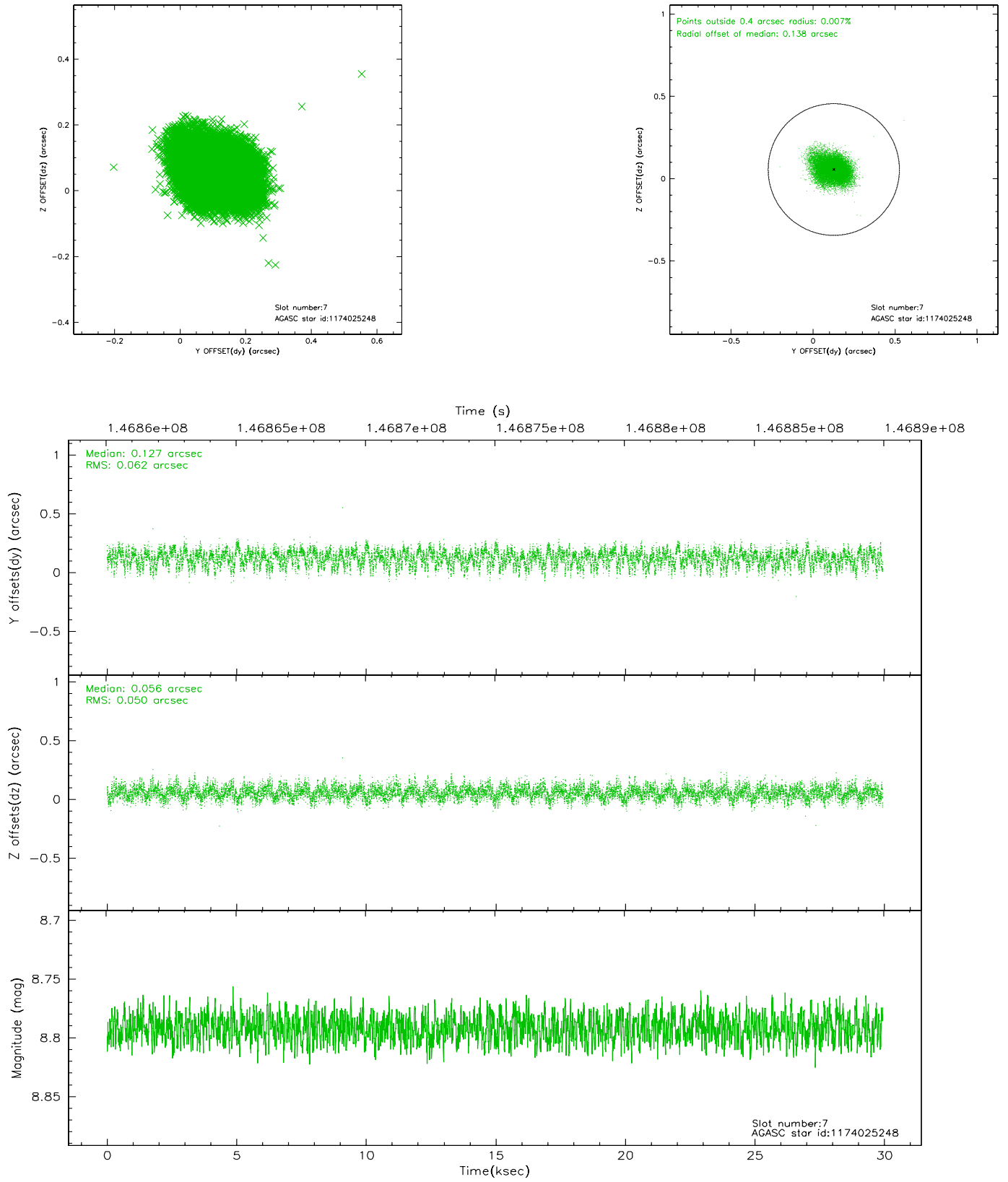
2.4.3 Slot 5



2.4.4 Slot 6

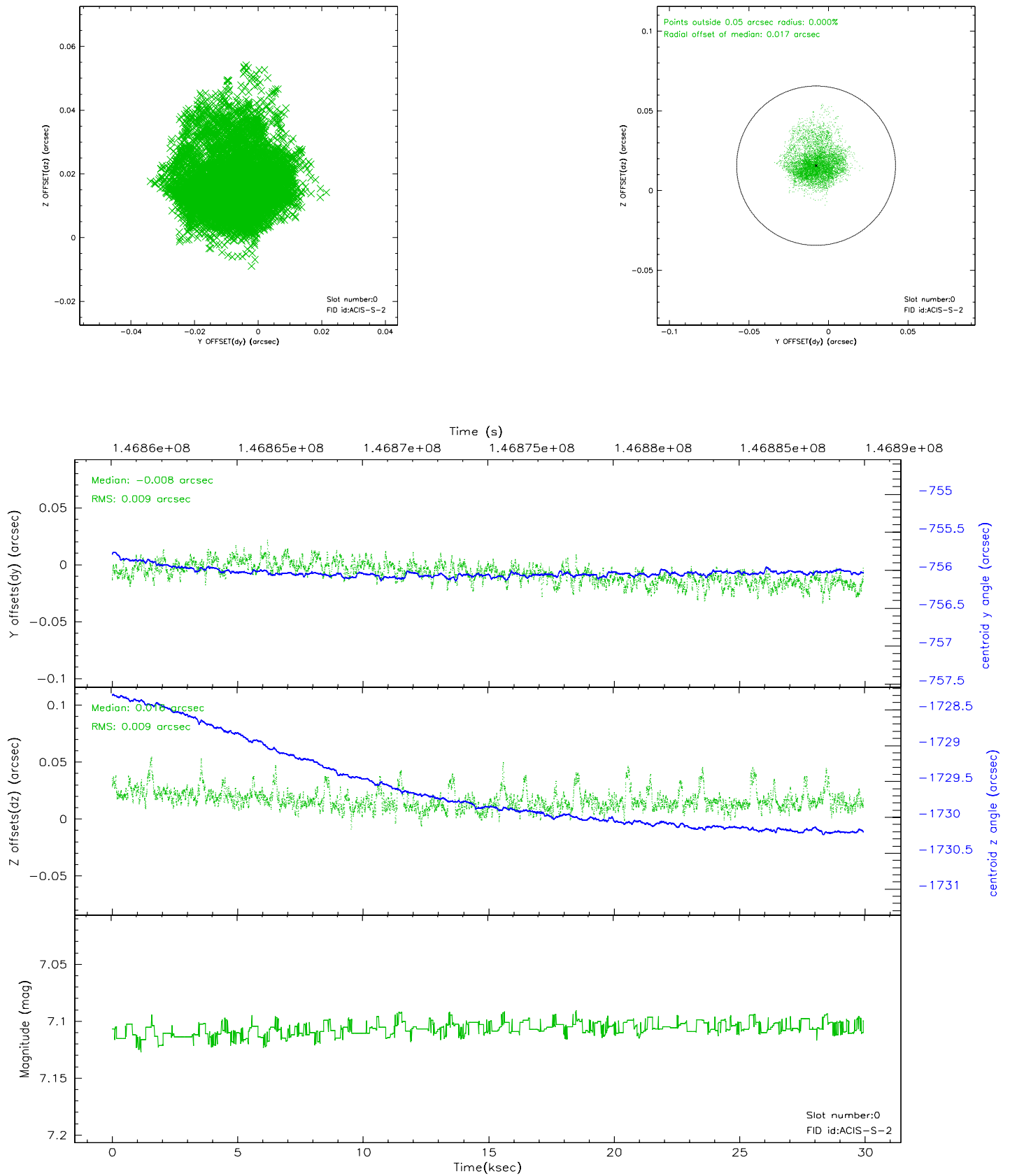


2.4.5 Slot 7

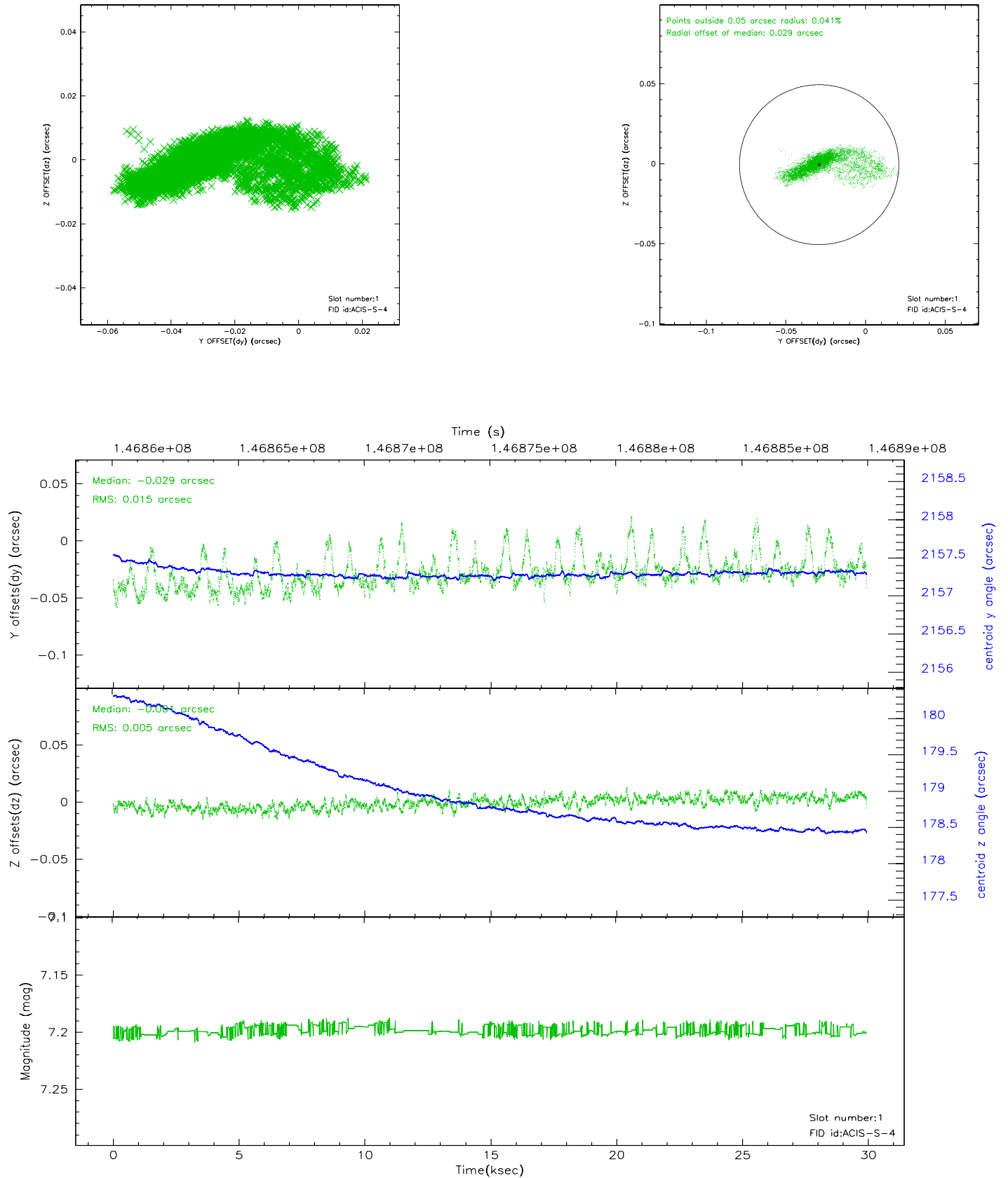


2.5 FID Slots

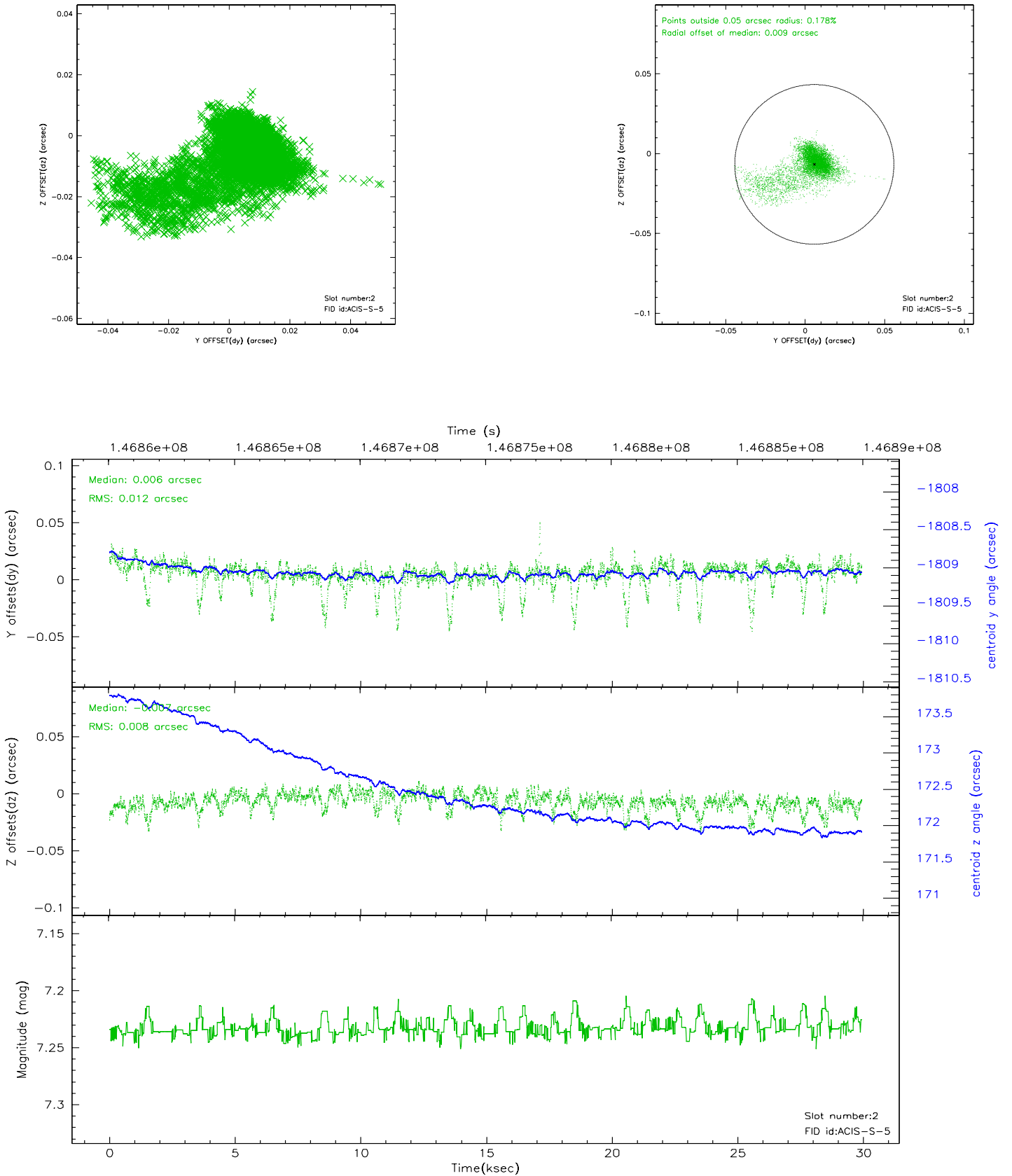
2.5.1 Slot 0



2.5.2 Slot 1

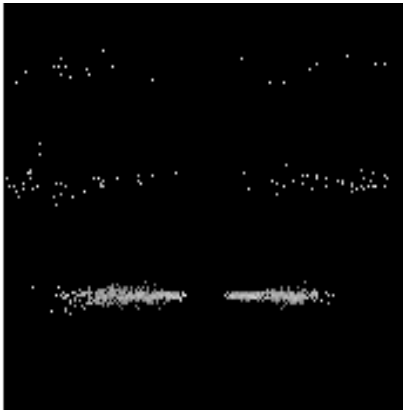


2.5.3 Slot 2

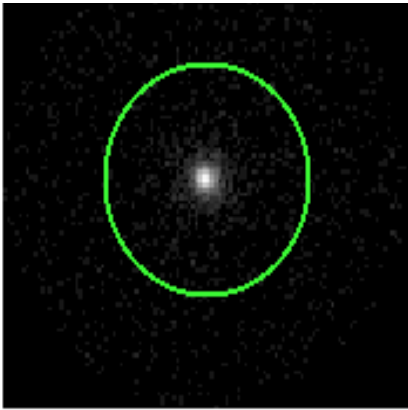


3 Gratings

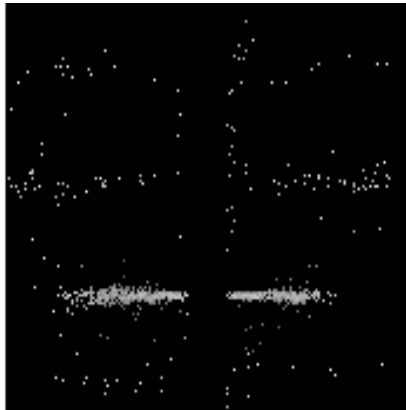
3.1 HEG Arm



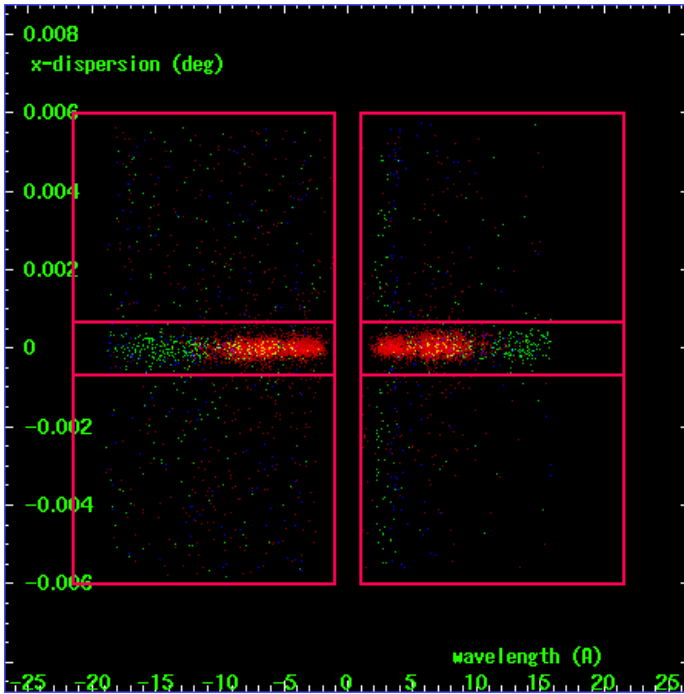
HEG Order Sort 123



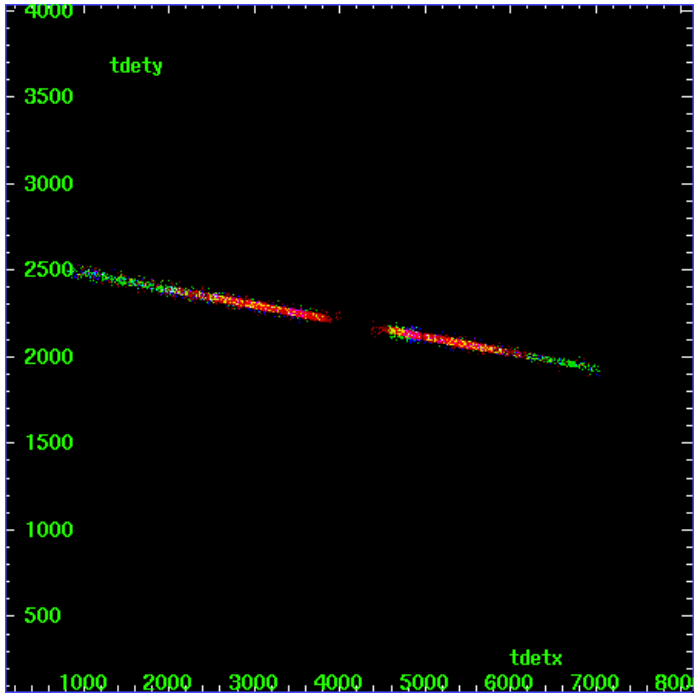
HEG Zero Order



HEG Order Sort ALL

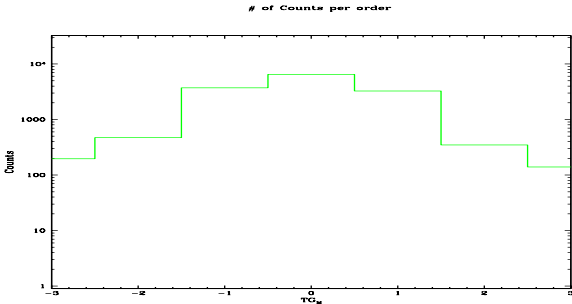


Spot Image HEG

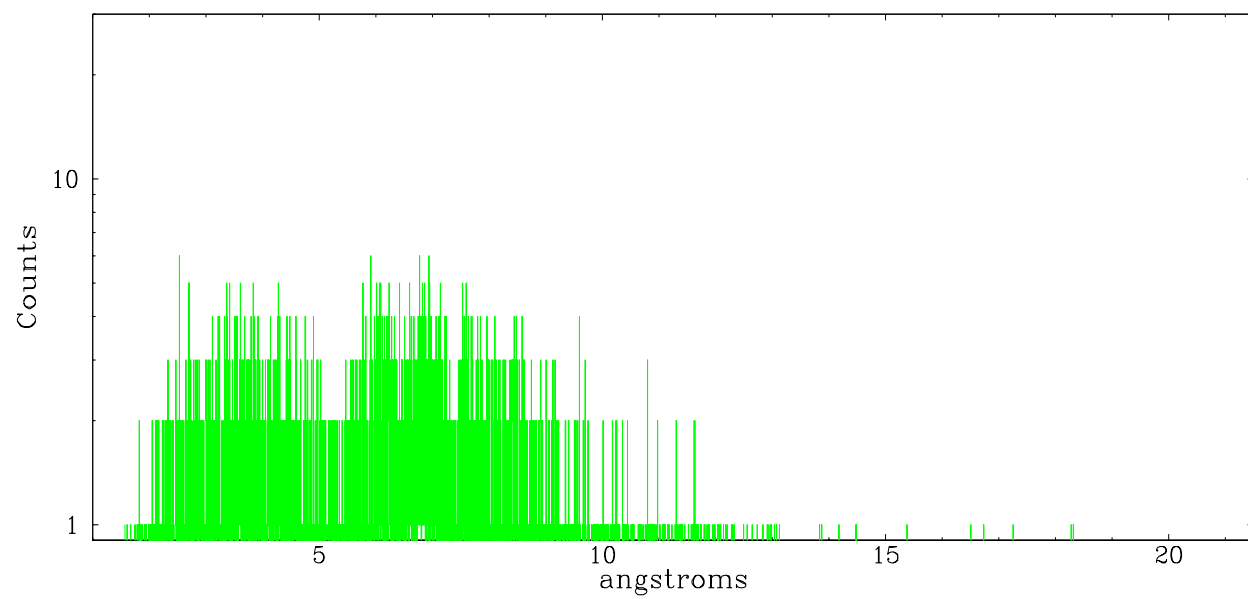


Full Detector HEG

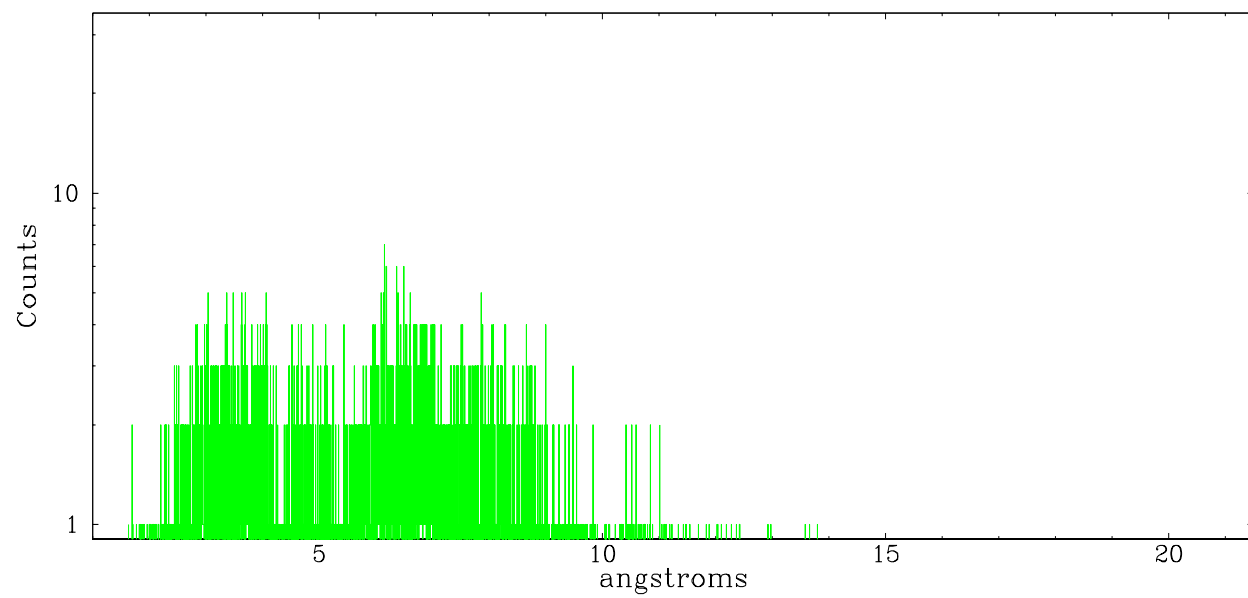
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	196	470	3730	6469	3247	347	140



heg order -1



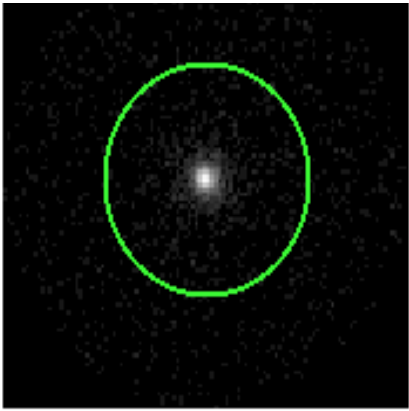
heg order +1



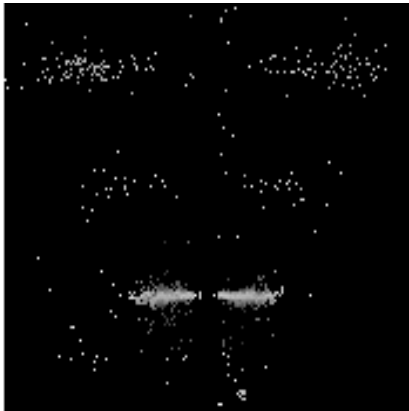
3.2 MEG Arm



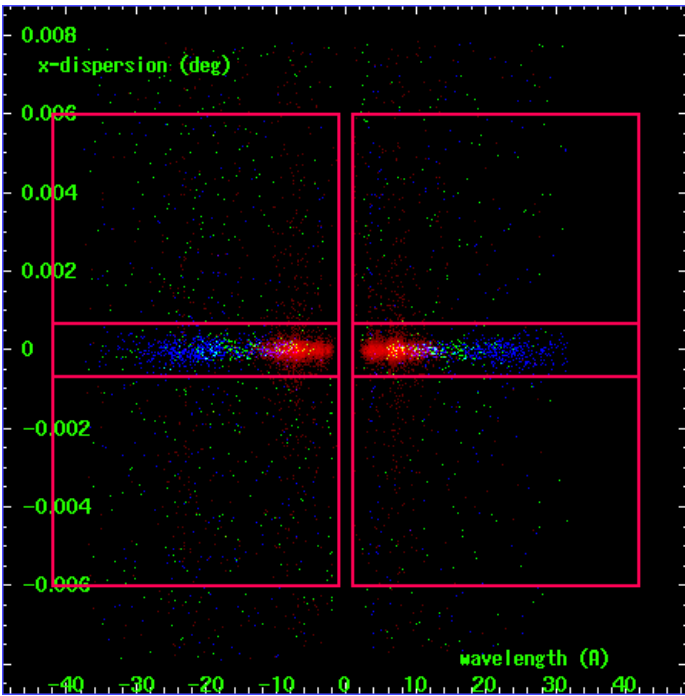
MEG Order Sort 123



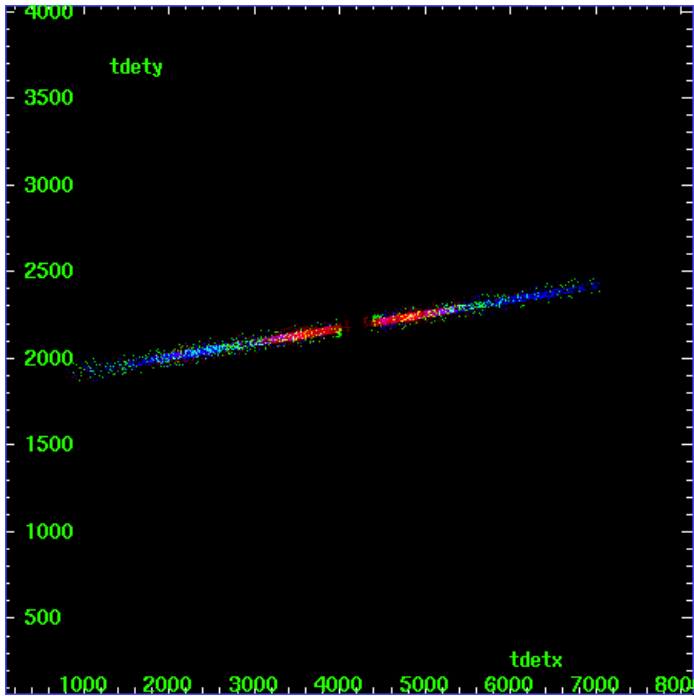
MEG Zero Order



MEG Order Sort ALL

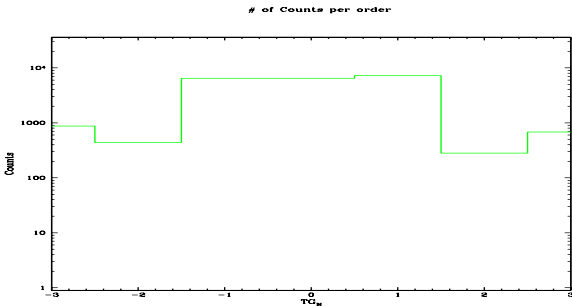


Spot Image MEG

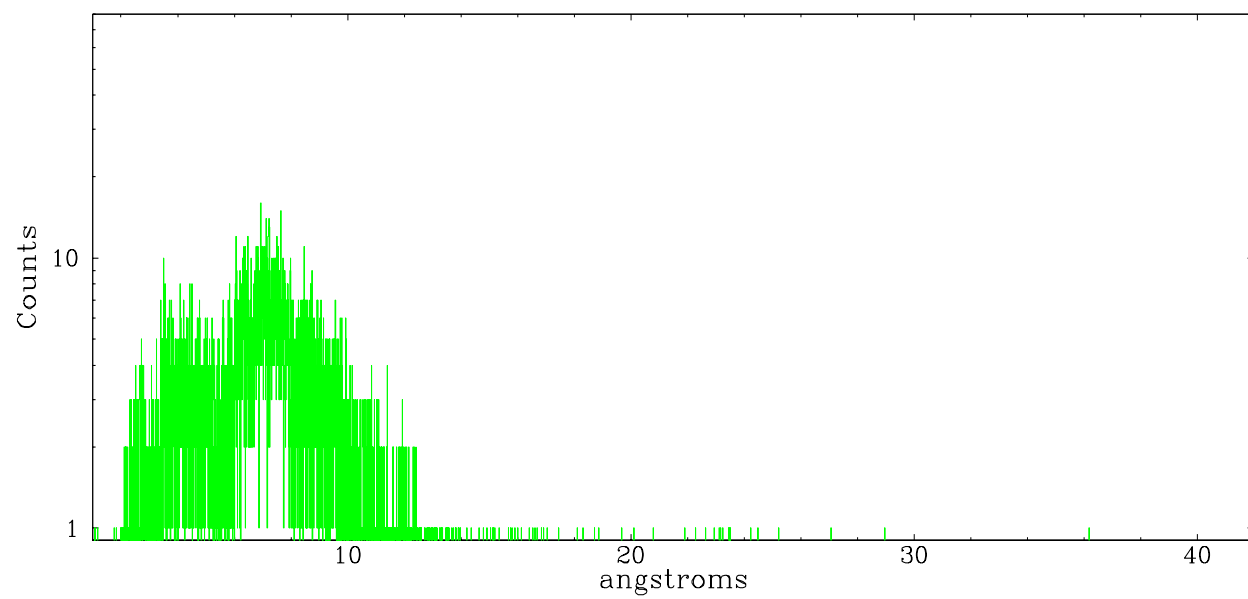


Full Detector MEG

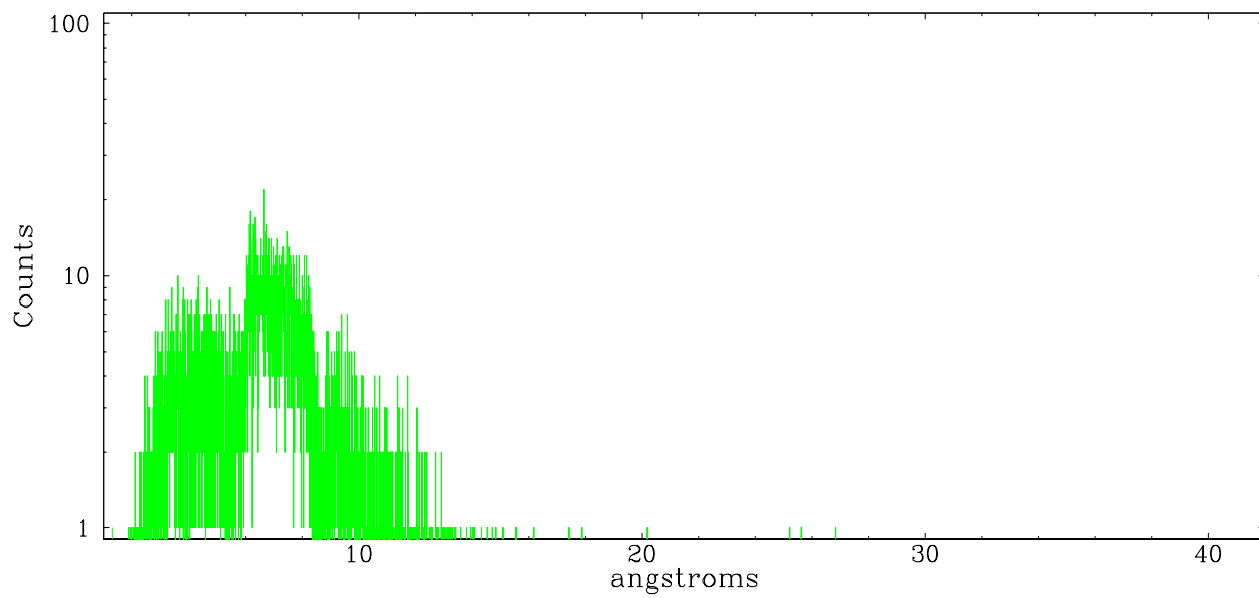
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	877	439	6462	6469	7197	282	680



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.334

A.2 Comments