

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2671 - L2 Version 001
Chandra X-Ray Center

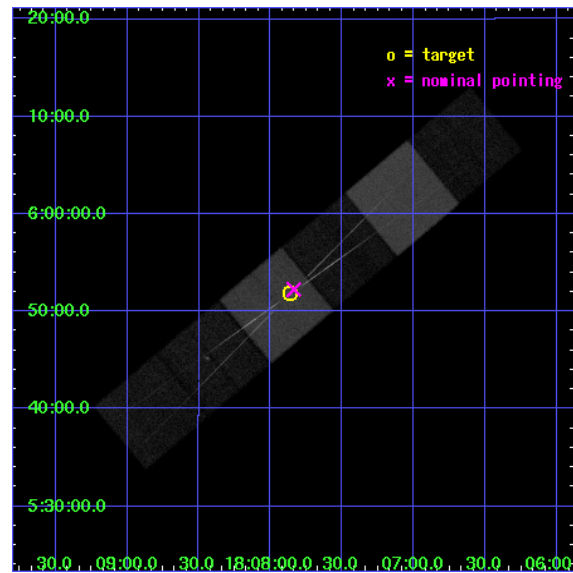
L2 Processing Date : Sep 18 2006

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1 Front

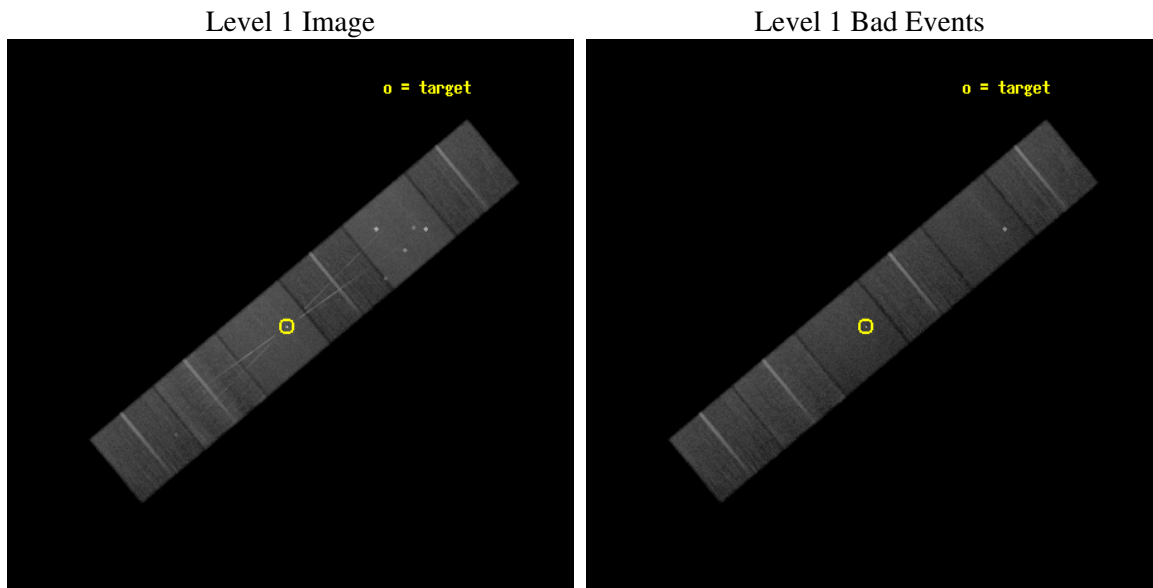
seq_num	300072
obs_id	2671
title	ACCRETION IN HIGH DENSITY AND TEMPERATURE CONDITIONS (V426 OPH)
observer	PROF. PAULA SZKODY
object	V426 OPH
dtcycle	0
cycle	P
ra_targ	271.965417
dec_targ	5.863472
ra_nom	271.95915793338
dec_nom	5.8709145121721
roll_nom	140.06135950374
revision	2
ontime	45174.399831712
livetime	44602.374380285
ontime4	45171.158851415
ontime5	45174.399831712
ontime6	45174.399831712
ontime7	45174.399831712
ontime8	45171.158851445
ontime9	45167.917881161
l2events	458175



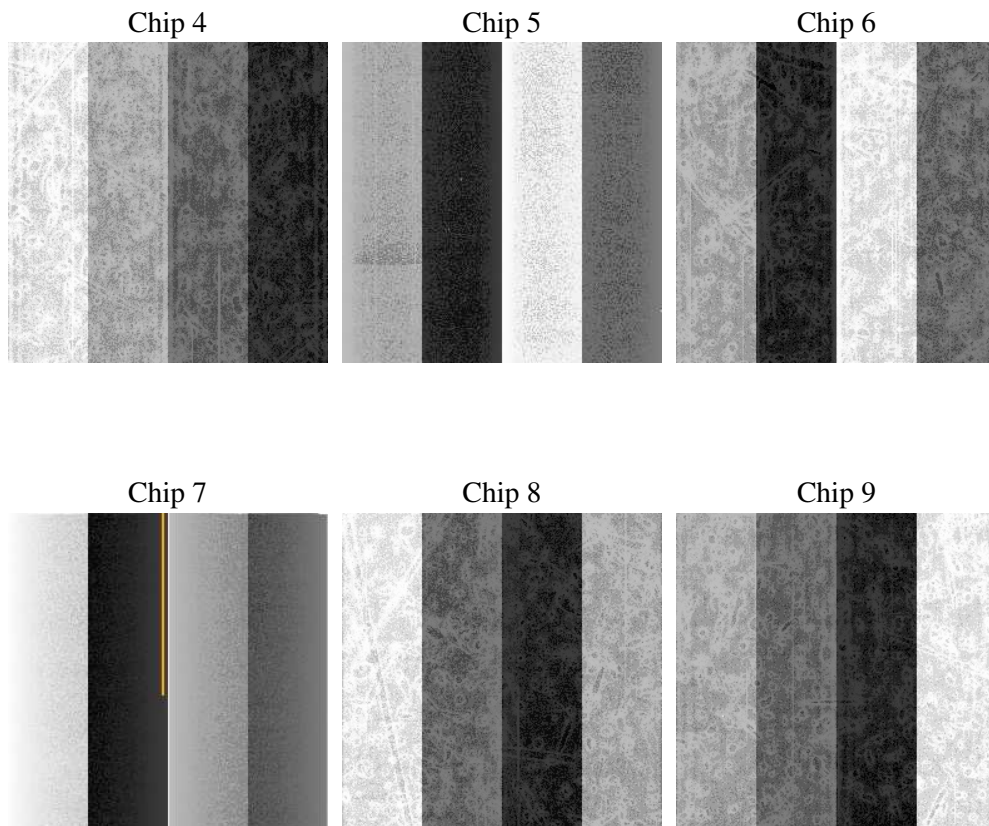
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-18T02:05:05
revision	2

sched_exp_time	45000.000000
ontime	45526.411838591
ontime4	45400.014527559
ontime5	45526.411838591
ontime6	45416.219667882
ontime7	45526.411838591
ontime8	45416.21658811
ontime9	45409.73771733
l1events	2112902

2.1.4 Events

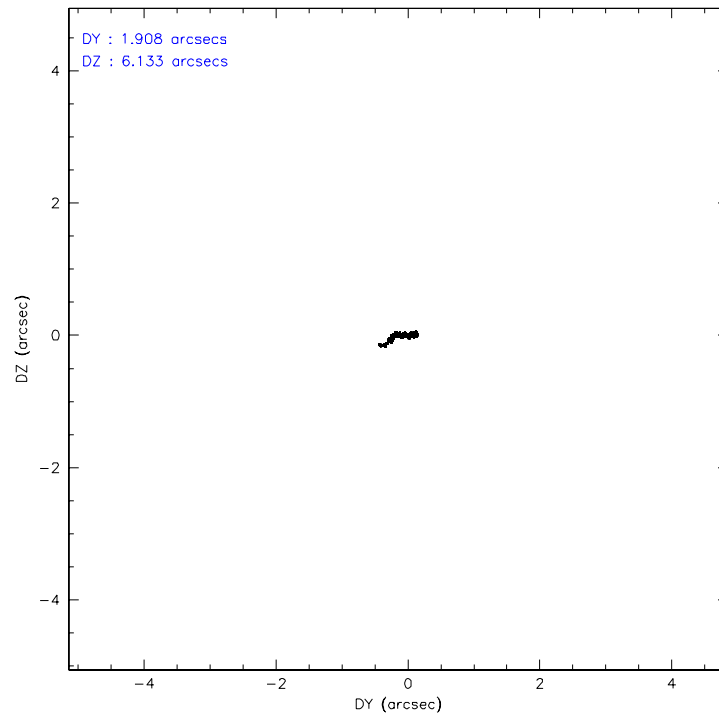
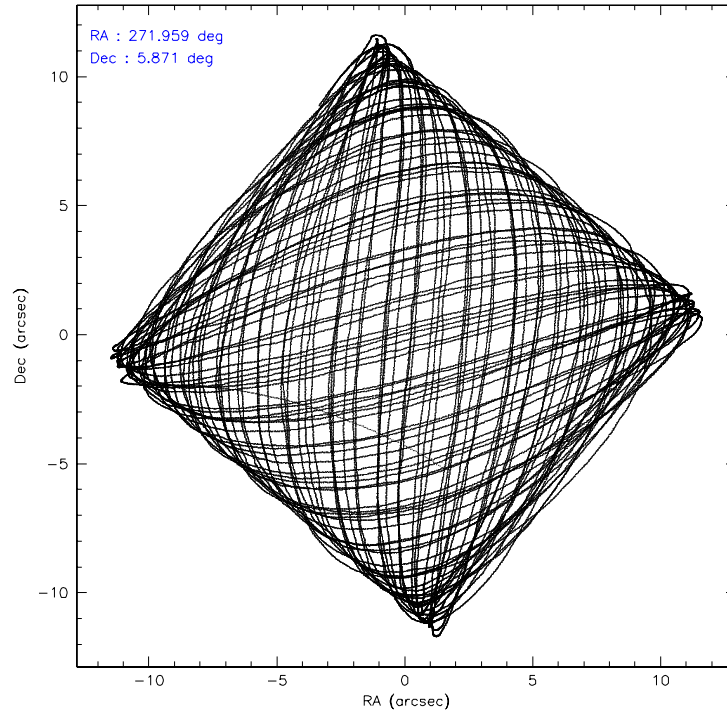
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	318452	431081	298121	401624	373922	289702
rejected events	283923	240041	255001	241703	292802	254176
rejected %	89%	55%	85%	60%	78%	87%

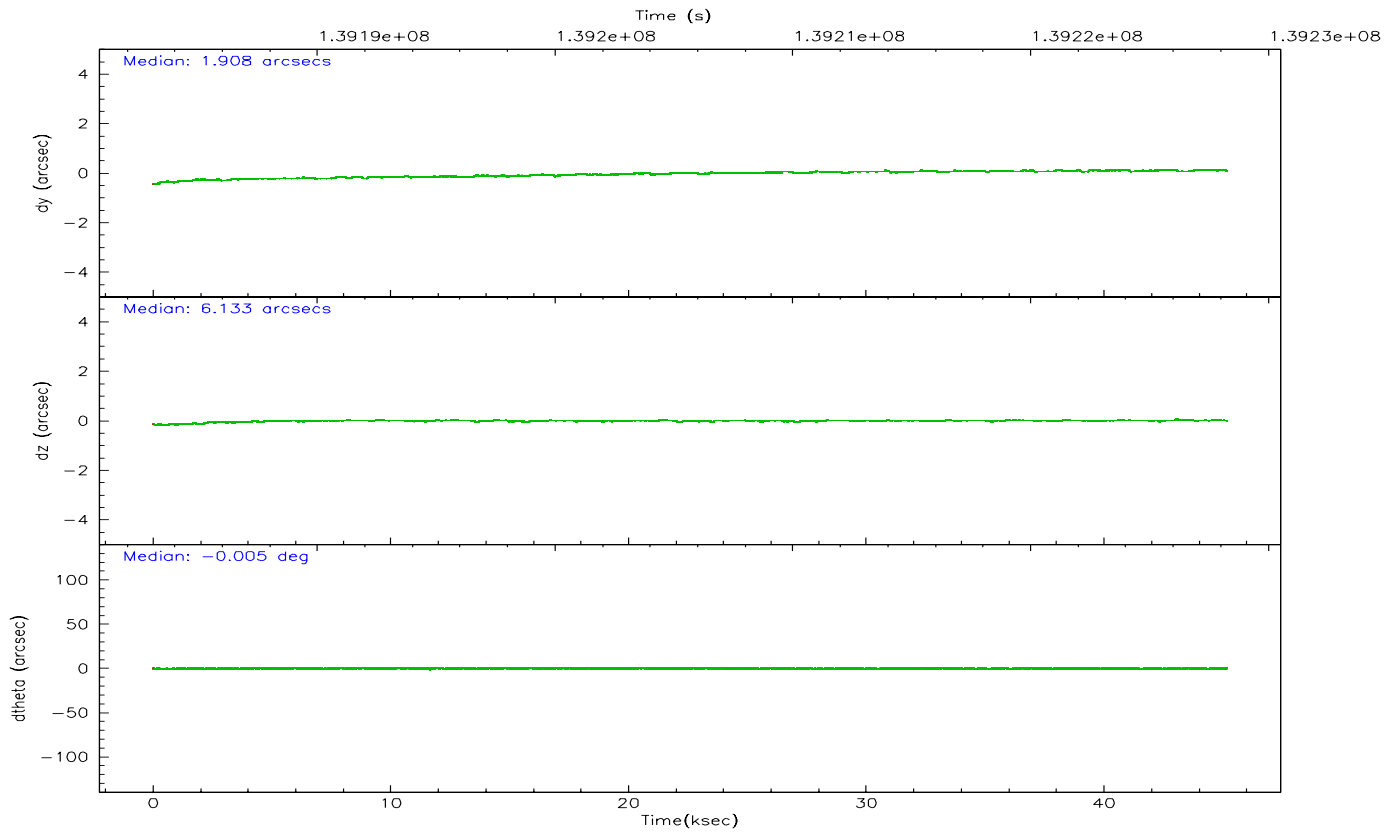
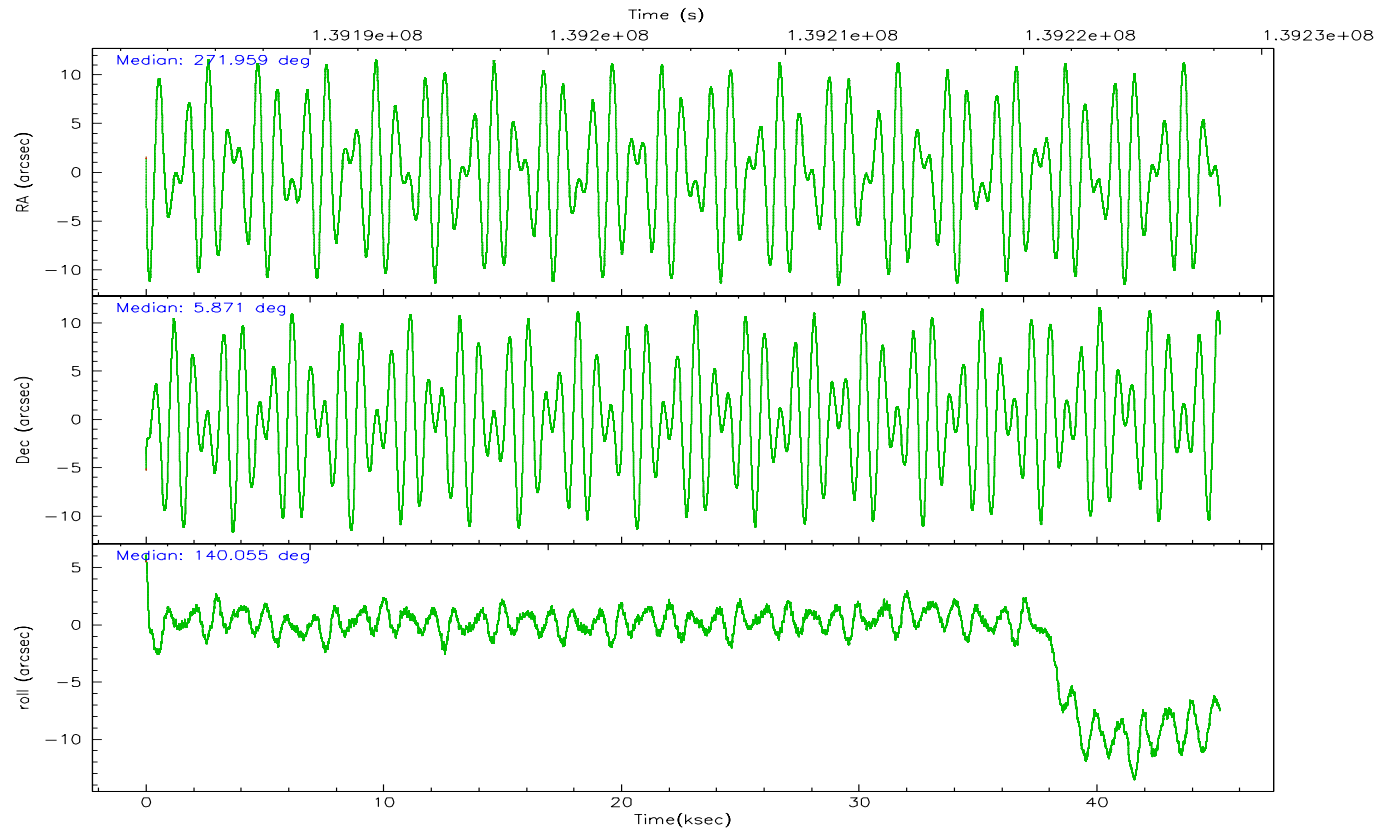
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	13901	20527	20657	10754	27481	14555
	4%	4%	6%	2%	7%	5%
grade 1 events	134	406	172	399	243	107
	0%	0%	0%	0%	0%	0%
grade 2 events	8523	59105	8115	39744	17009	7411
	2%	13%	2%	9%	4%	2%
grade 3 events	3035	4710	3750	8907	8652	3360
	0%	1%	1%	2%	2%	1%
grade 4 events	3100	4090	3589	8526	8044	3230
	0%	0%	1%	2%	2%	1%
grade 5 events	10834	23183	12582	25928	16273	13175
	3%	5%	4%	6%	4%	4%
grade 6 events	6131	104129	7200	93074	20300	7162
	1%	24%	2%	23%	5%	2%
grade 7 events	272794	214931	242056	214292	275920	240702
	85%	49%	81%	53%	73%	83%

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	271.986196	271.9591579333812	Subarray requested	NONE	NONE
Pointing Dec	5.866547	5.870914512172084	Alternating exposures requested	N	N
Pointing Roll	139.901968	140.0613595037368	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	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	139183269.184000	139182025.97403			
Observation start date	2002-05-30T22:00:05	2002-05-30T21:40:25			
Observation end time	139228269.184000	139230146.65099			
Observation end date	2002-05-31T10:30:05	2002-05-31T11:02:26			
Read mode	TIMED	TIMED			

2.3 Aspect



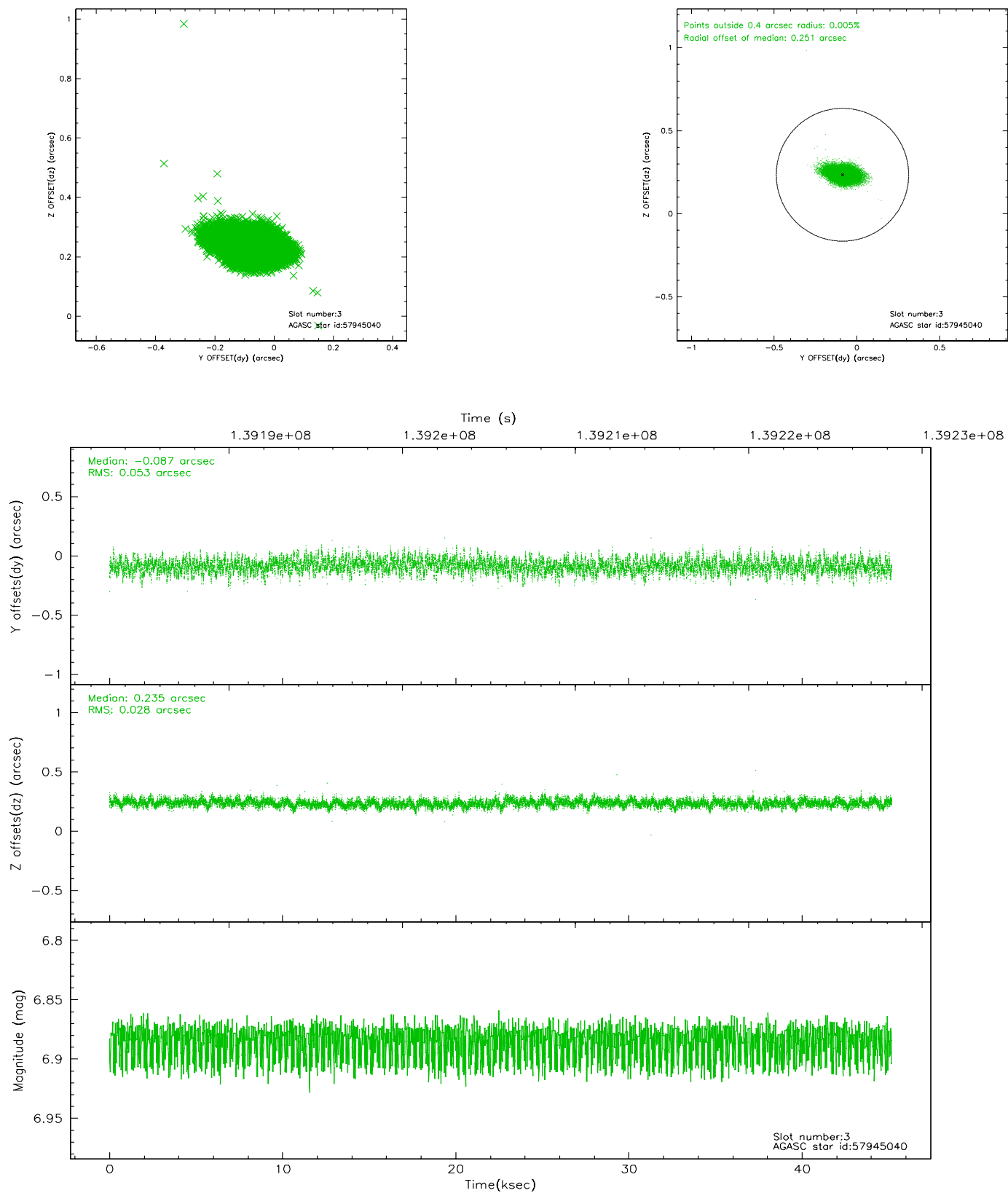


Slot Statistics

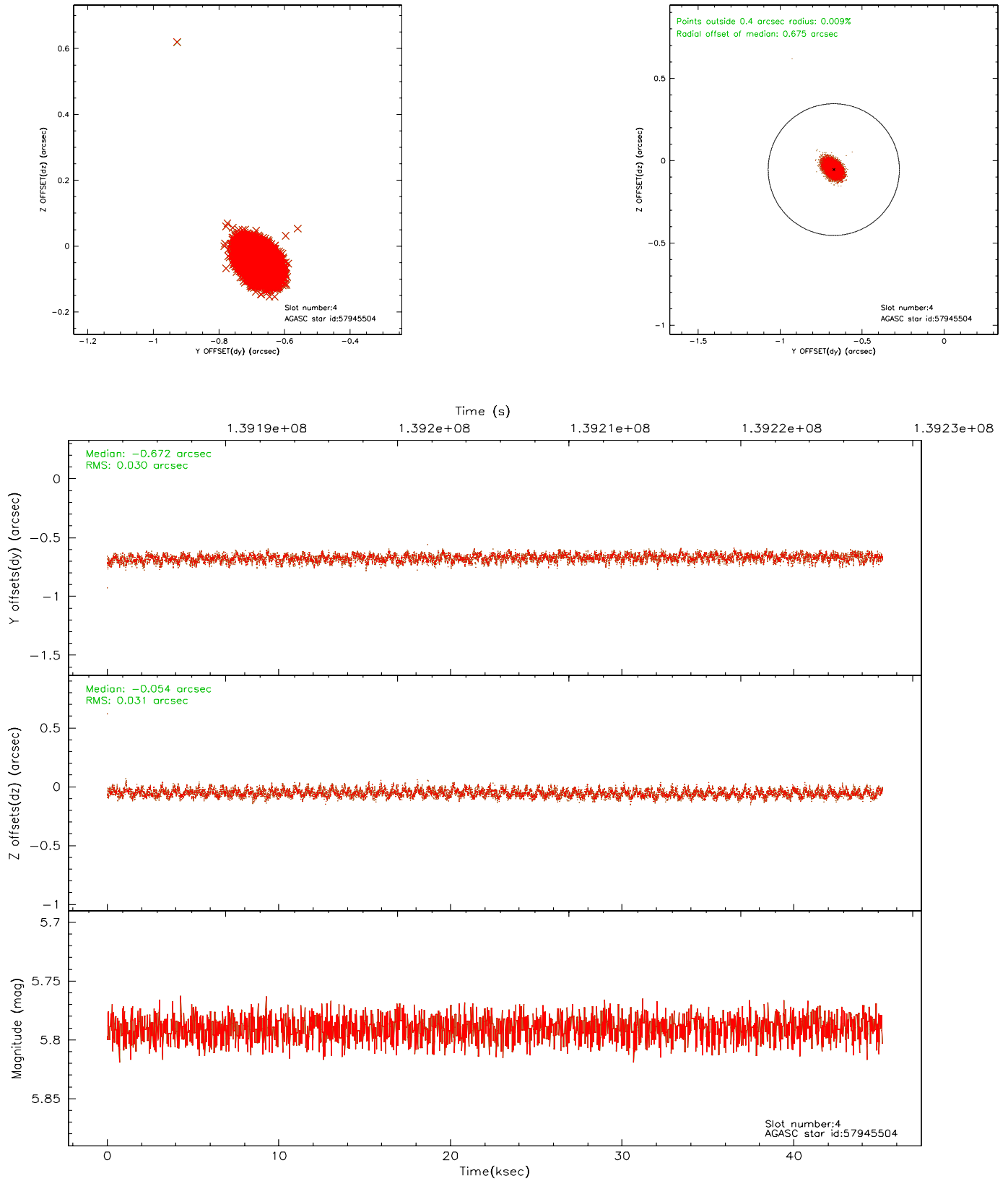
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	11019	-0.040	0.028	0.007	0.012	0.000000	0.000000	-754.48	-1727.25
1	FID	ACIS-S-4	7.21	11017	-0.054	0.011	0.005	0.010	0.000000	0.000000	2158.75	181.27
2	FID	ACIS-S-5	7.24	11021	0.062	-0.031	0.007	0.012	0.000000	0.000000	-1807.26	174.82
3	GUIDE	57945040	6.88	22034	-0.087	0.235	0.061	0.108	271.821139	6.701487	2387.67	-1918.85
4	BAD	57945504	5.79	11020	-0.672	-0.054	0.045	0.073	271.843633	6.542803	1958.24	-1533.66
5	GUIDE	57550048	8.14	22035	0.102	-0.216	0.060	0.098	272.033669	5.149142	-1793.84	1865.39
6	GUIDE	57563072	8.71	22037	0.186	-0.128	0.069	0.111	272.067918	5.310546	-1513.46	1342.11
7	GUIDE	58077512	8.95	22028	0.134	0.137	0.076	0.121	272.678944	5.979442	-1634.36	-1909.78

2.4 Star Slots

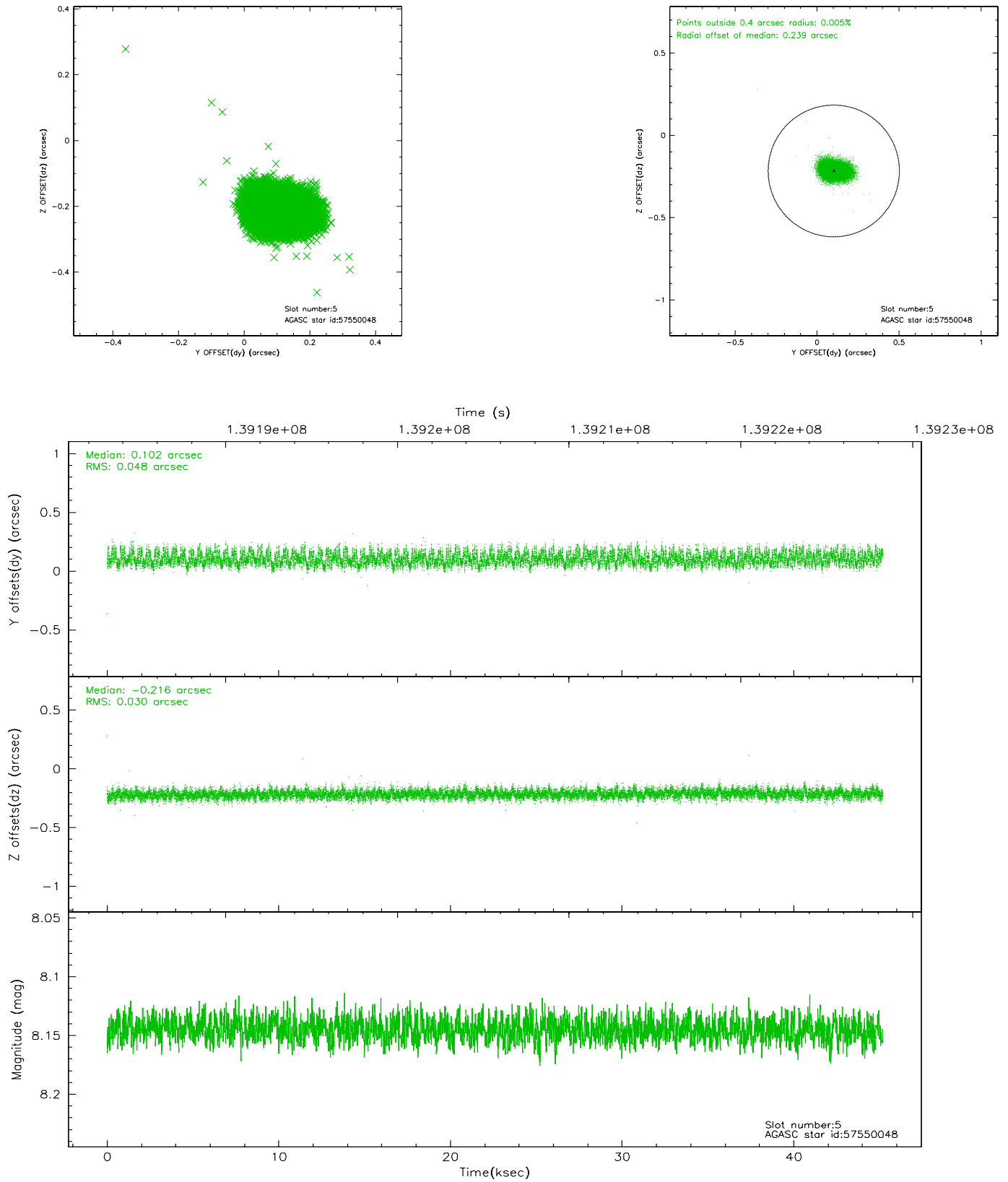
2.4.1 Slot 3



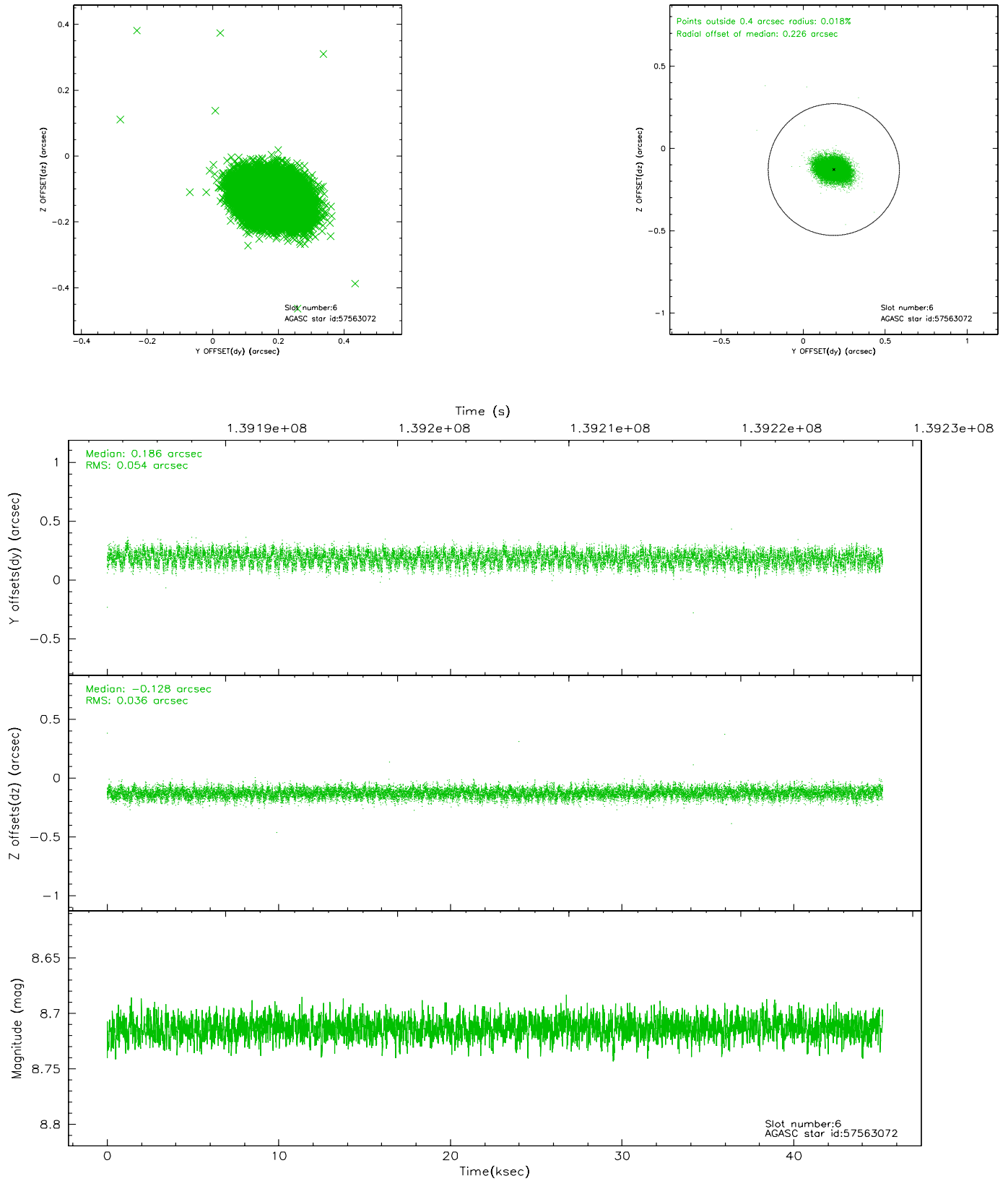
2.4.2 Slot 4



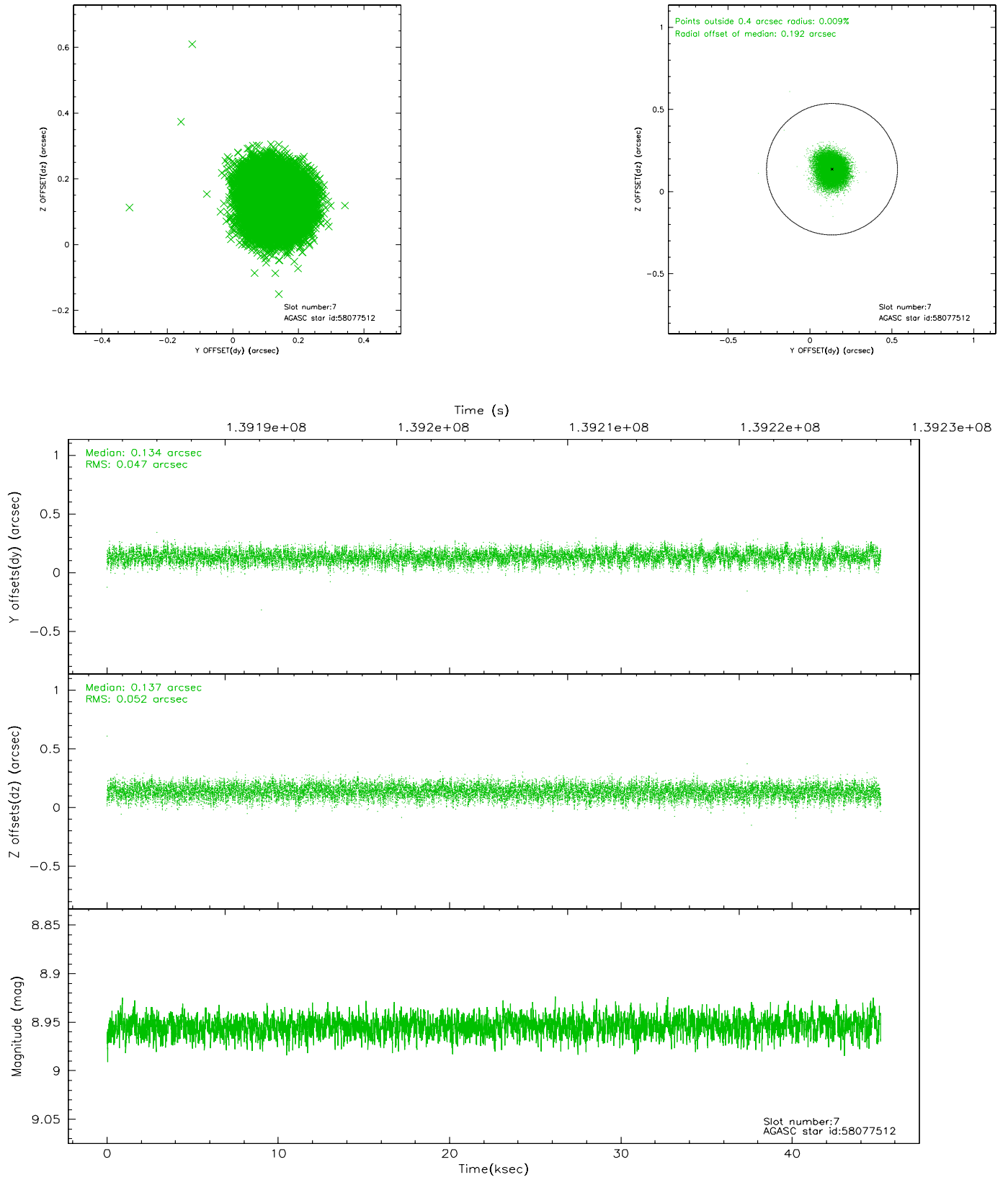
2.4.3 Slot 5



2.4.4 Slot 6

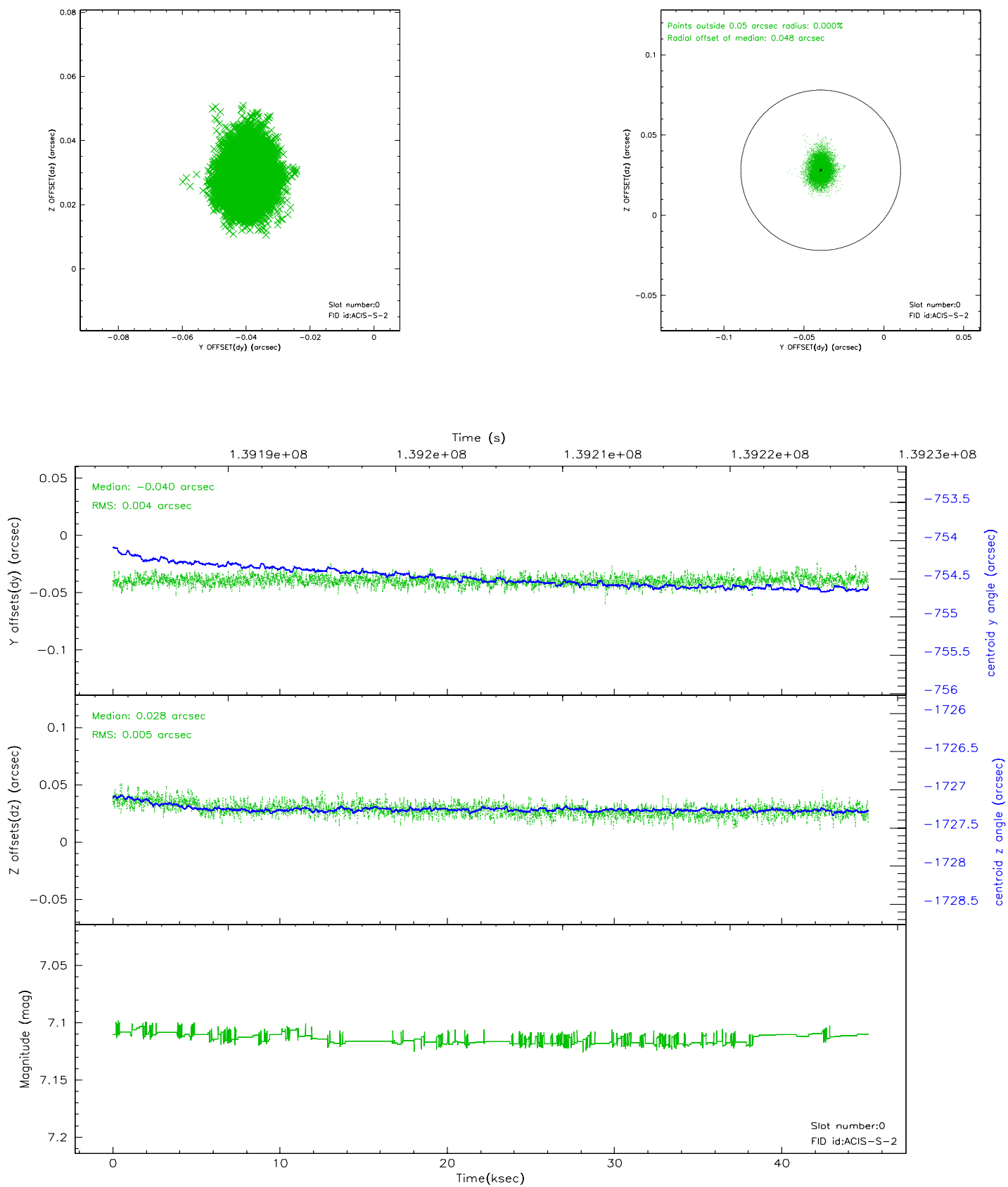


2.4.5 Slot 7

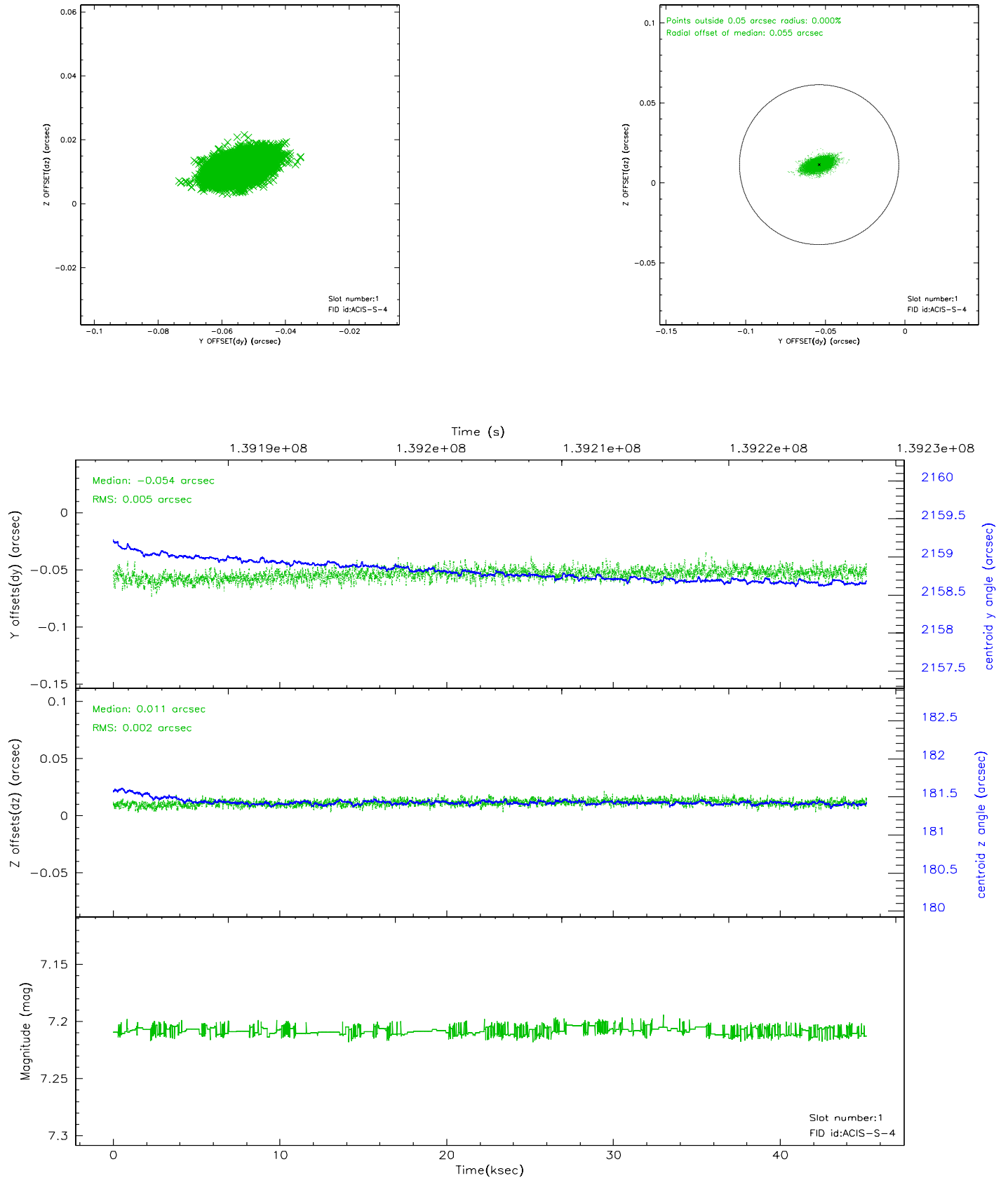


2.5 FID Slots

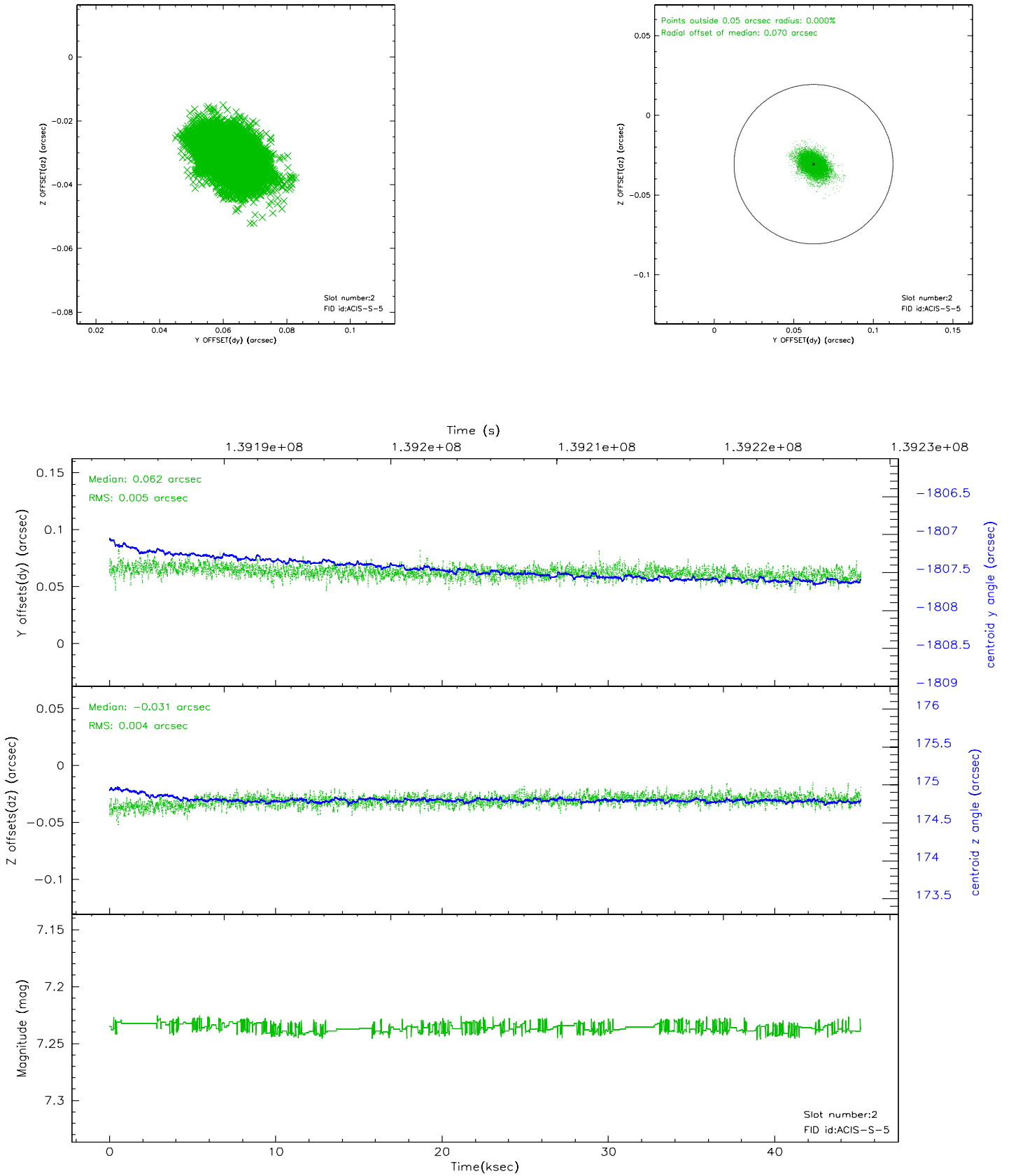
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

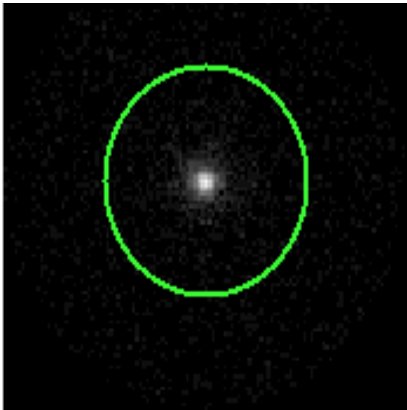


3 Gratings

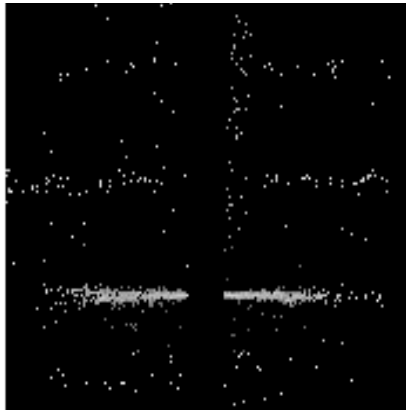
3.1 HEG Arm



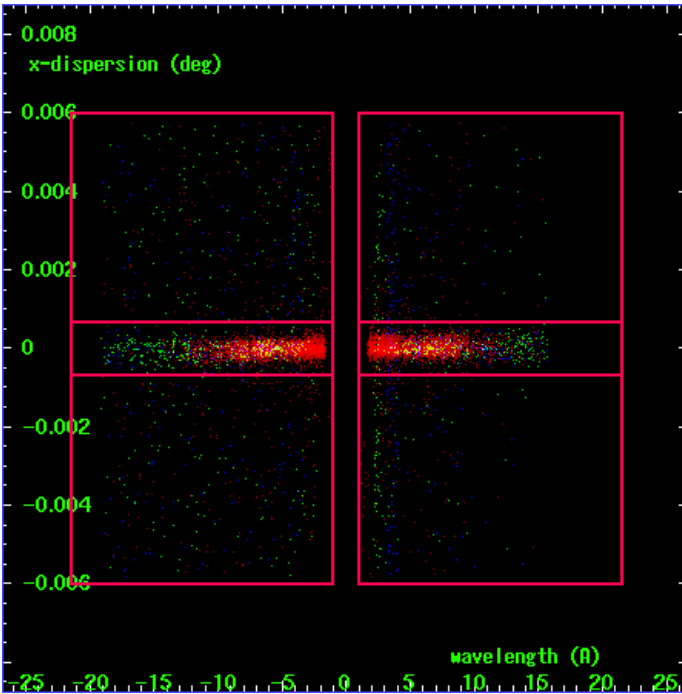
HEG Order Sort 123



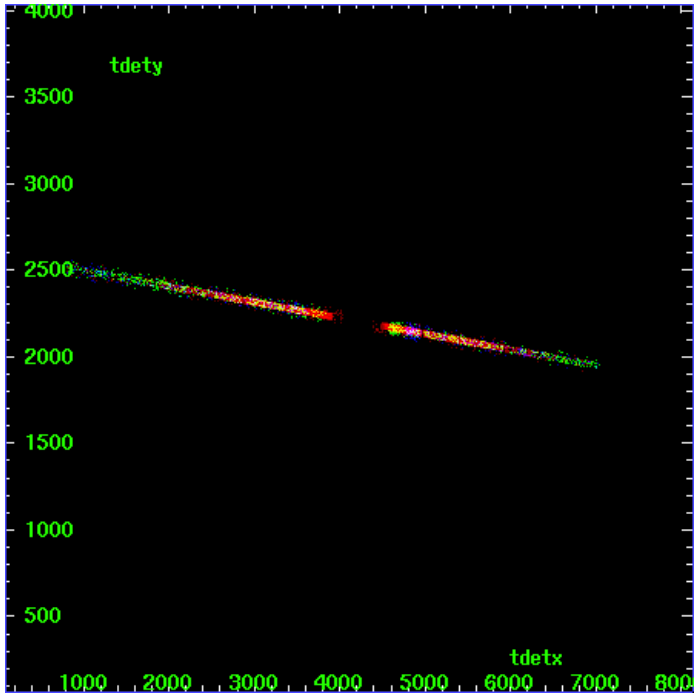
HEG Zero Order



HEG Order Sort ALL

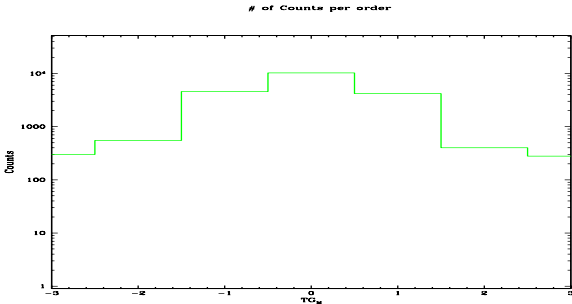


Spot Image HEG

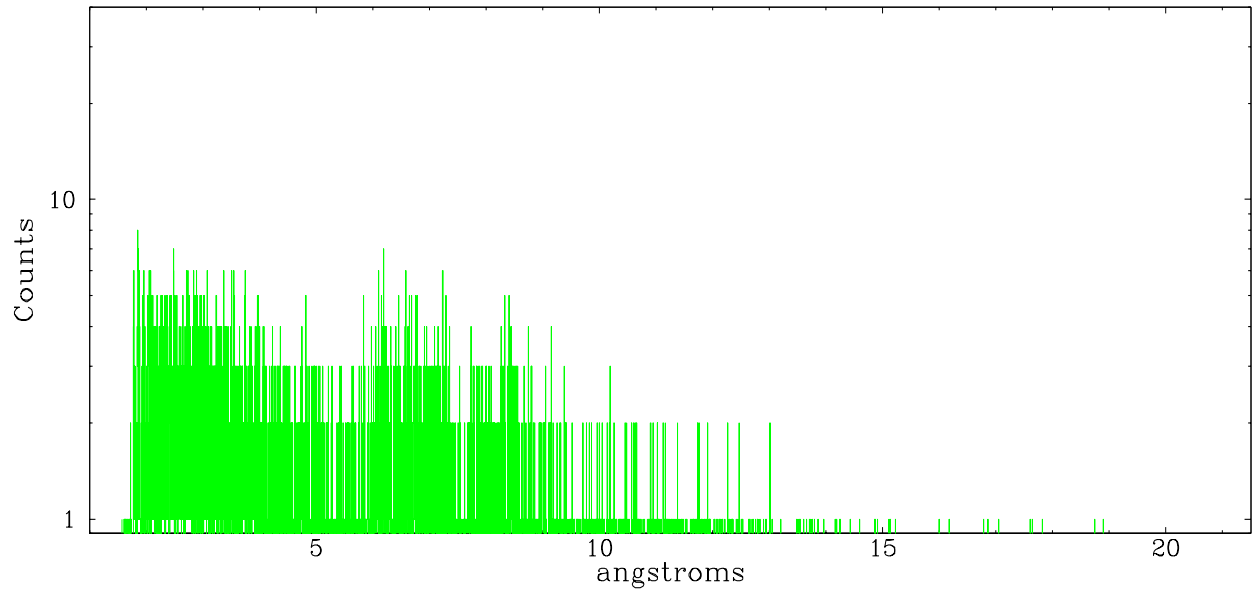


Full Detector HEG

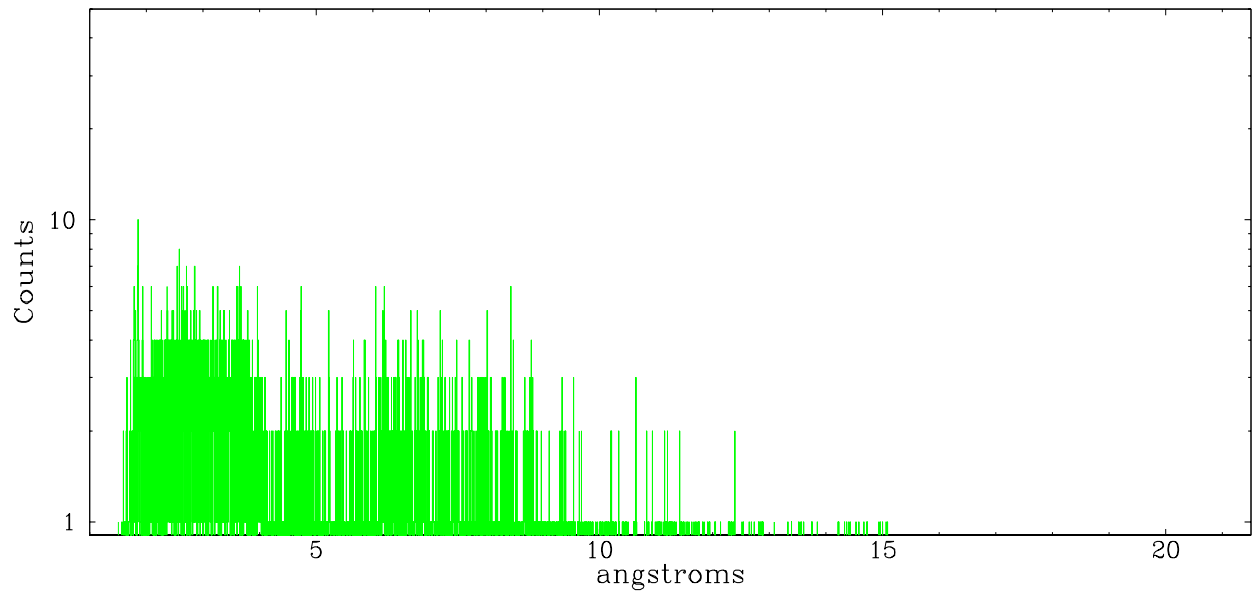
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	299	548	4571	10257	4161	400	279



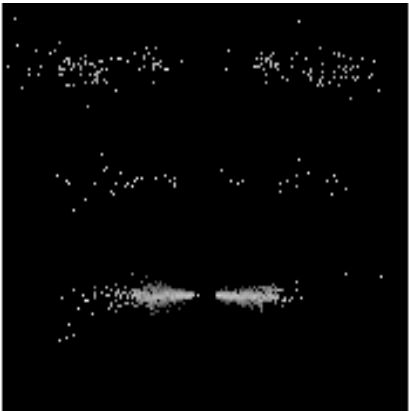
heg order -1



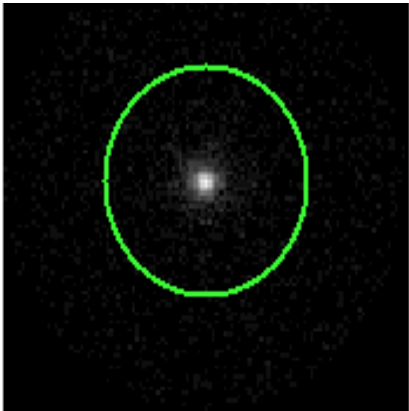
heg order +1



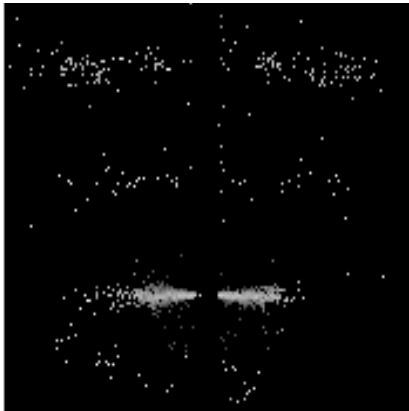
3.2 MEG Arm



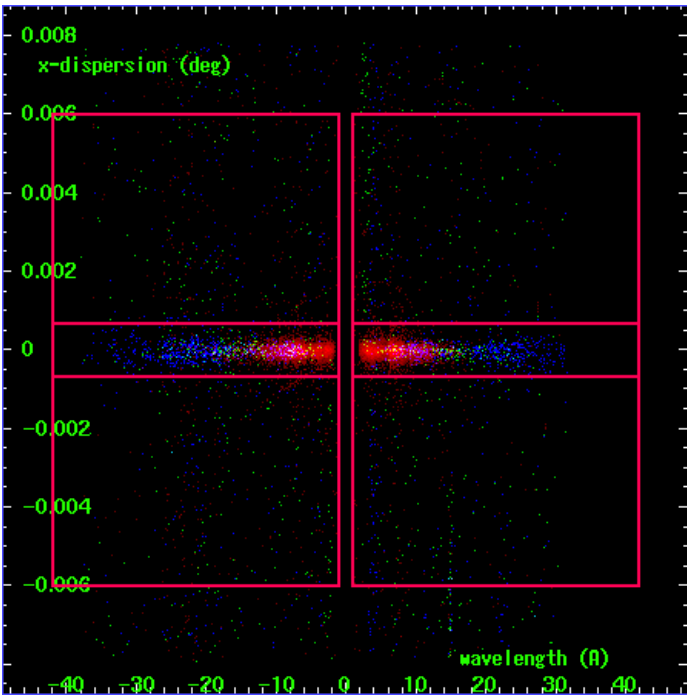
MEG Order Sort 123



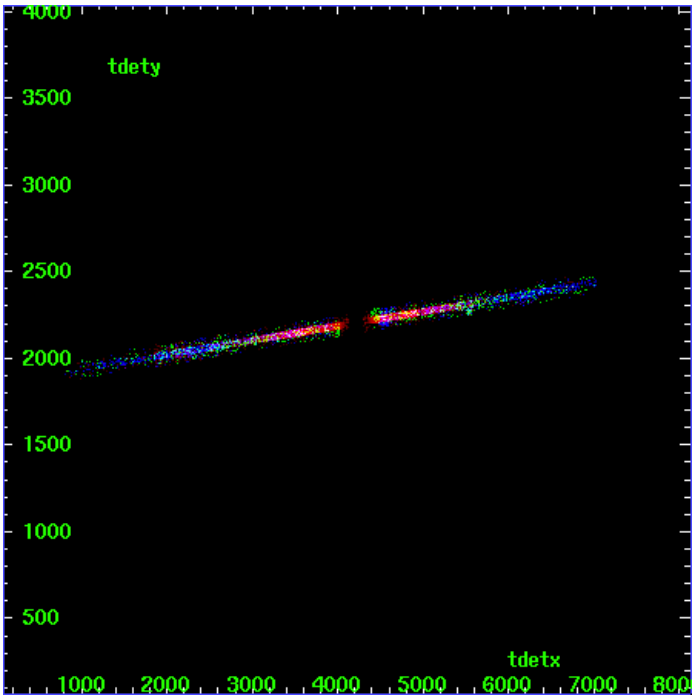
MEG Zero Order



MEG Order Sort ALL

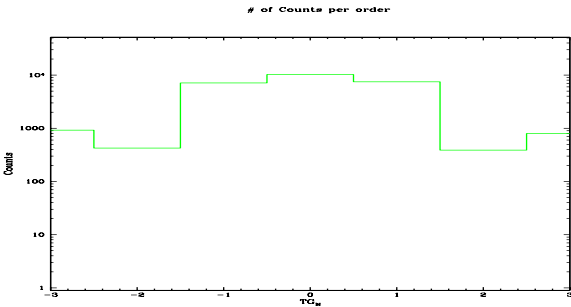


Spot Image MEG

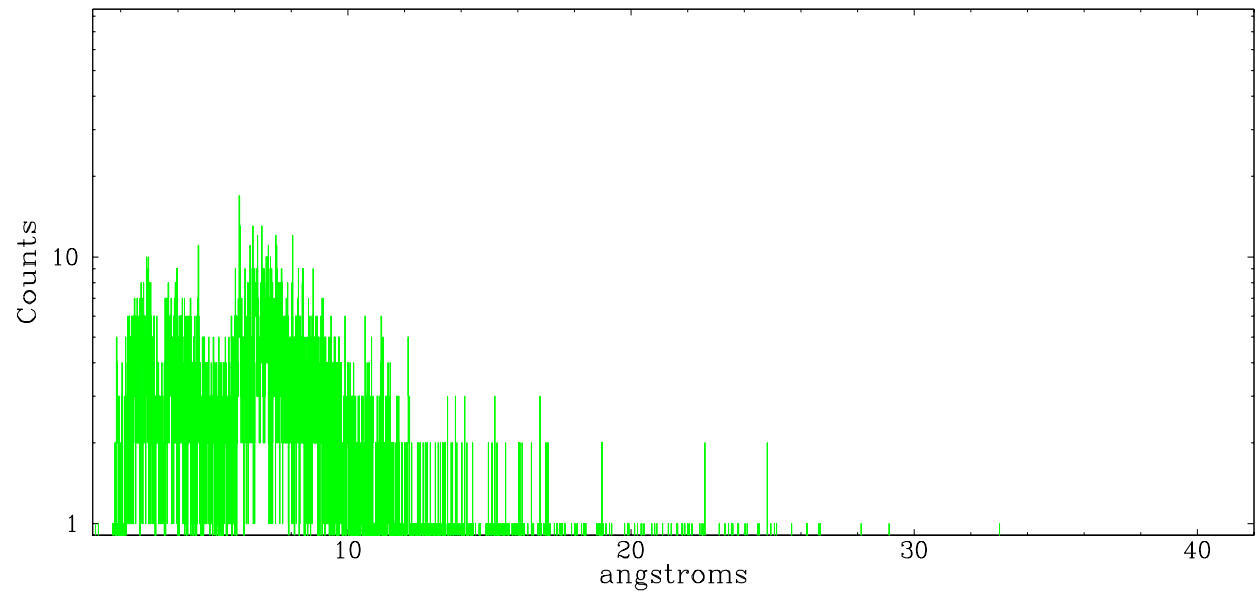


Full Detector MEG

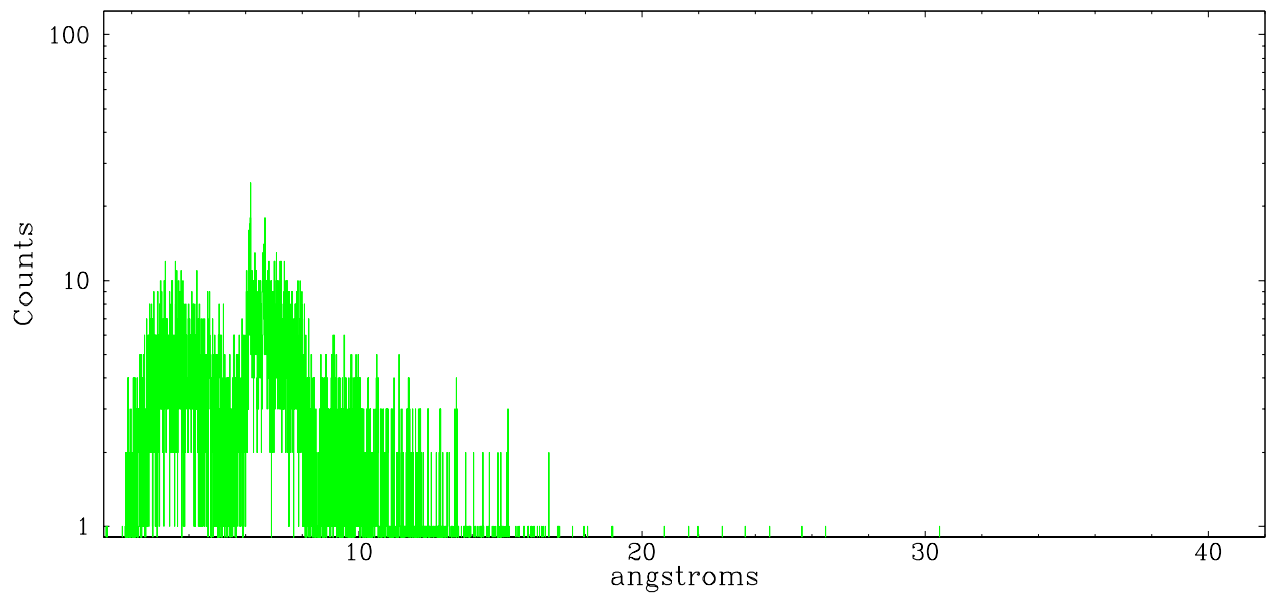
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	921	423	7098	10257	7454	387	796



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.145

A.2 Comments

Guide star in slot 4 was only tracked 33% of the time, so it was eliminated from the aspect solution. The removal of one star from the aspect solution is not believed to affect the quality of the pointing reconstruction.

The spacecraft roll took a -10 degree jog about 36 ksec into the observation and stayed at the new roll angle for the rest of the observation.