

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 3410 - L2 Version 001
Chandra X-Ray Center

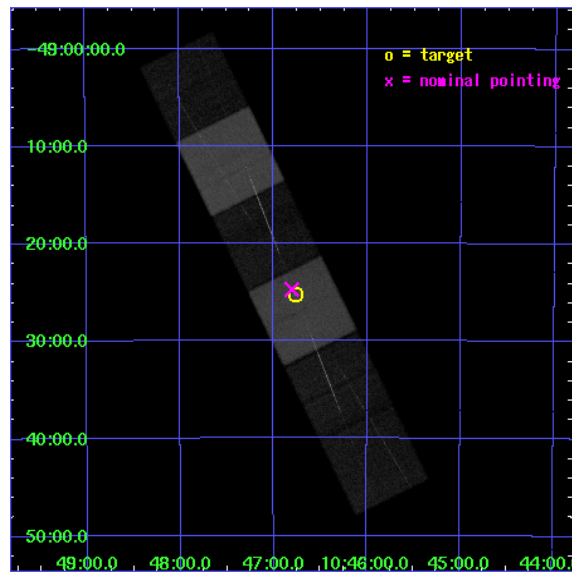
L2 Processing Date : Jan 18 2007

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1 Front

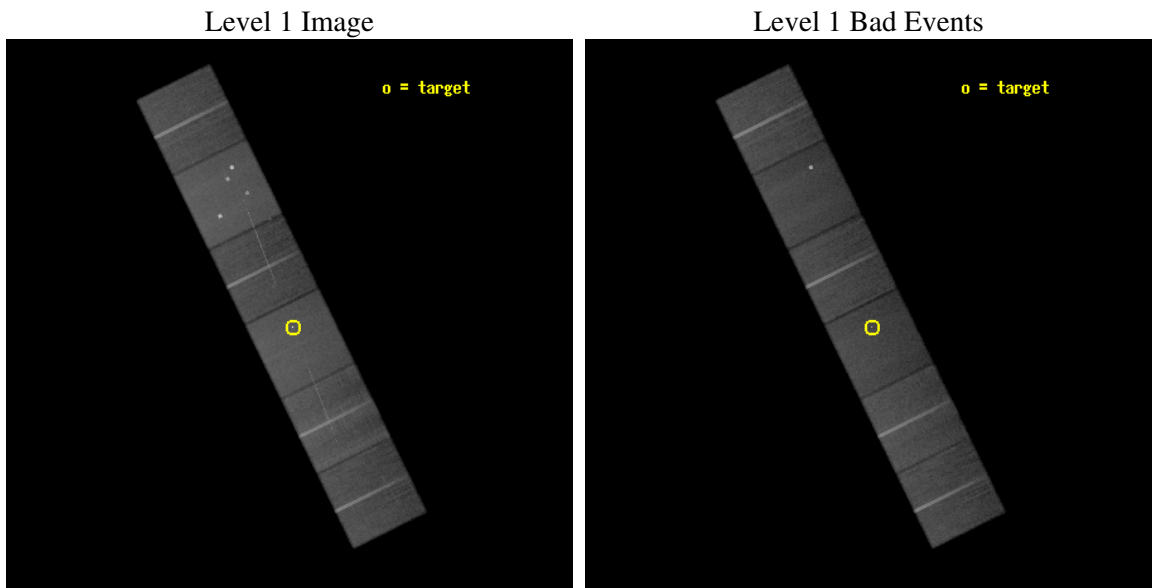
seq_num	200192
obs_id	3410
title	TORTURED CORONAE IN THE RAPID BRAKING ZONE
observer	Dr. Thomas Ayres
object	HD 93497
dtcycle	0
cycle	P
ra_targ	161.692083
dec_targ	-49.42
ra_nom	161.70095011777
dec_nom	-49.412180226956
roll_nom	63.837157133707
revision	2
ontime	57734.400053769
livetime	57003.332316806
ontime4	57731.159123436
ontime5	57734.400053769
ontime6	57724.677143067
ontime7	57734.400053769
ontime8	57724.677083254
ontime9	57724.677192912
l2events	594362



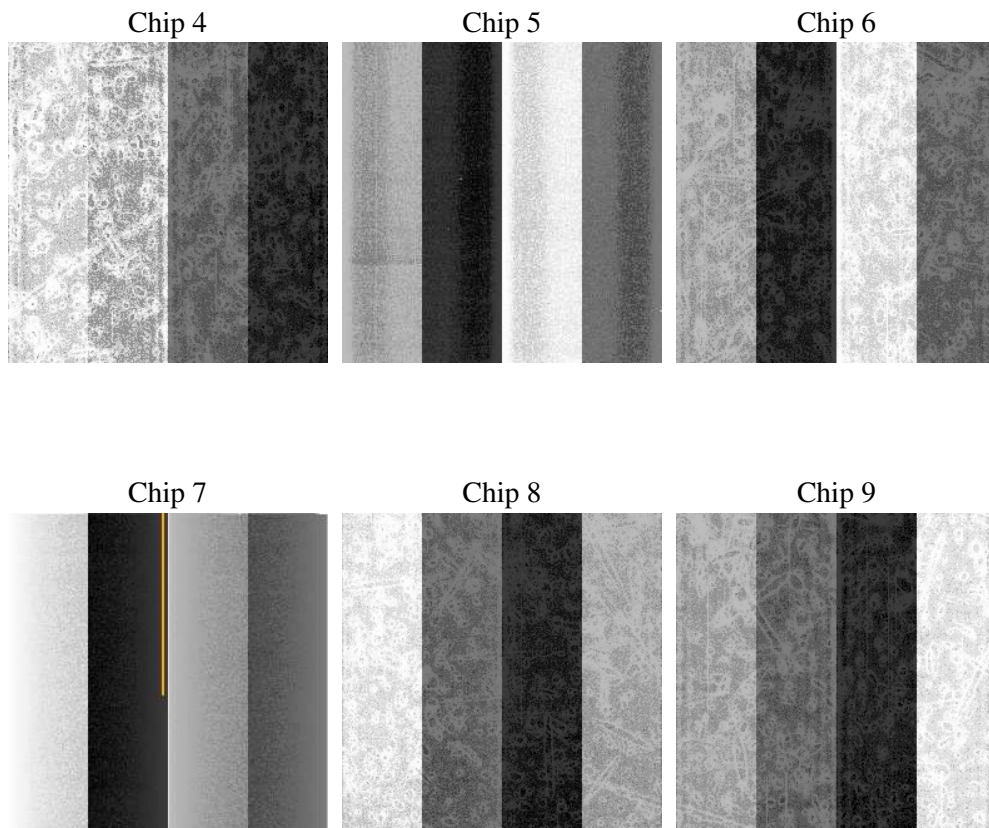
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.3.0
date	2007-01-18T07:40:10
revision	2

sched_exp_time	58000.000000
ontime	57734.400053769
ontime4	57731.159123436
ontime5	57734.400053769
ontime6	57724.677143067
ontime7	57734.400053769
ontime8	57724.677083254
ontime9	57724.677192912
l1events	2703152

2.1.4 Events

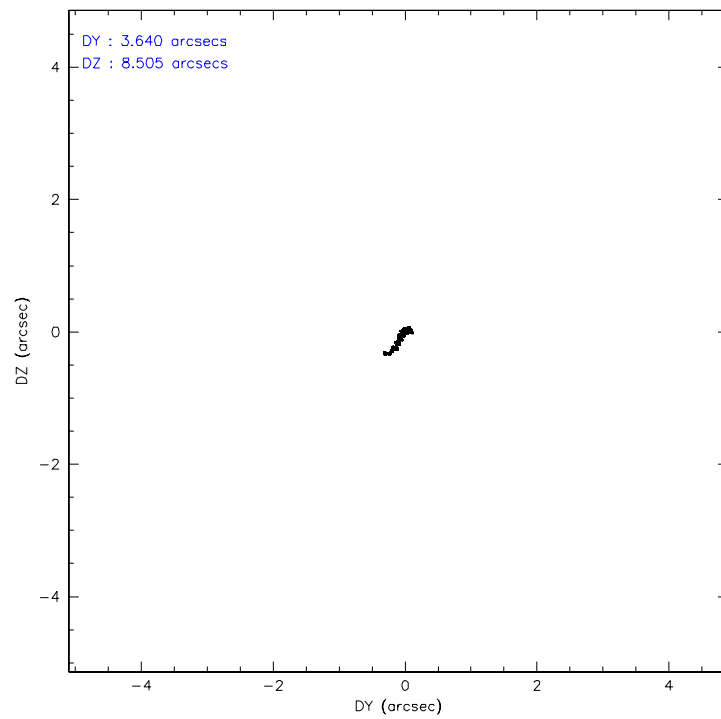
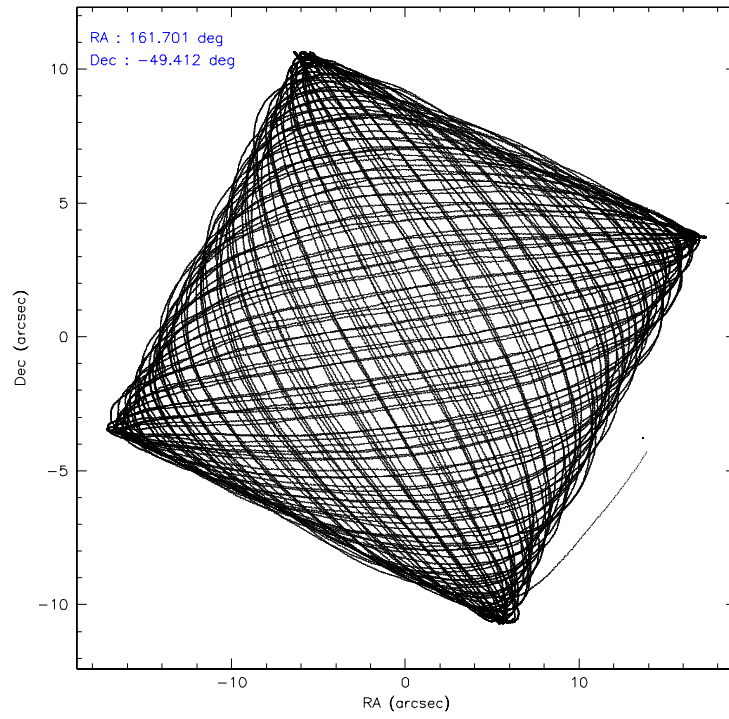
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	412421	556960	380246	495208	482713	375604
rejected events	367001	297812	332100	286848	377958	330555
rejected %	88%	53%	87%	57%	78%	88%

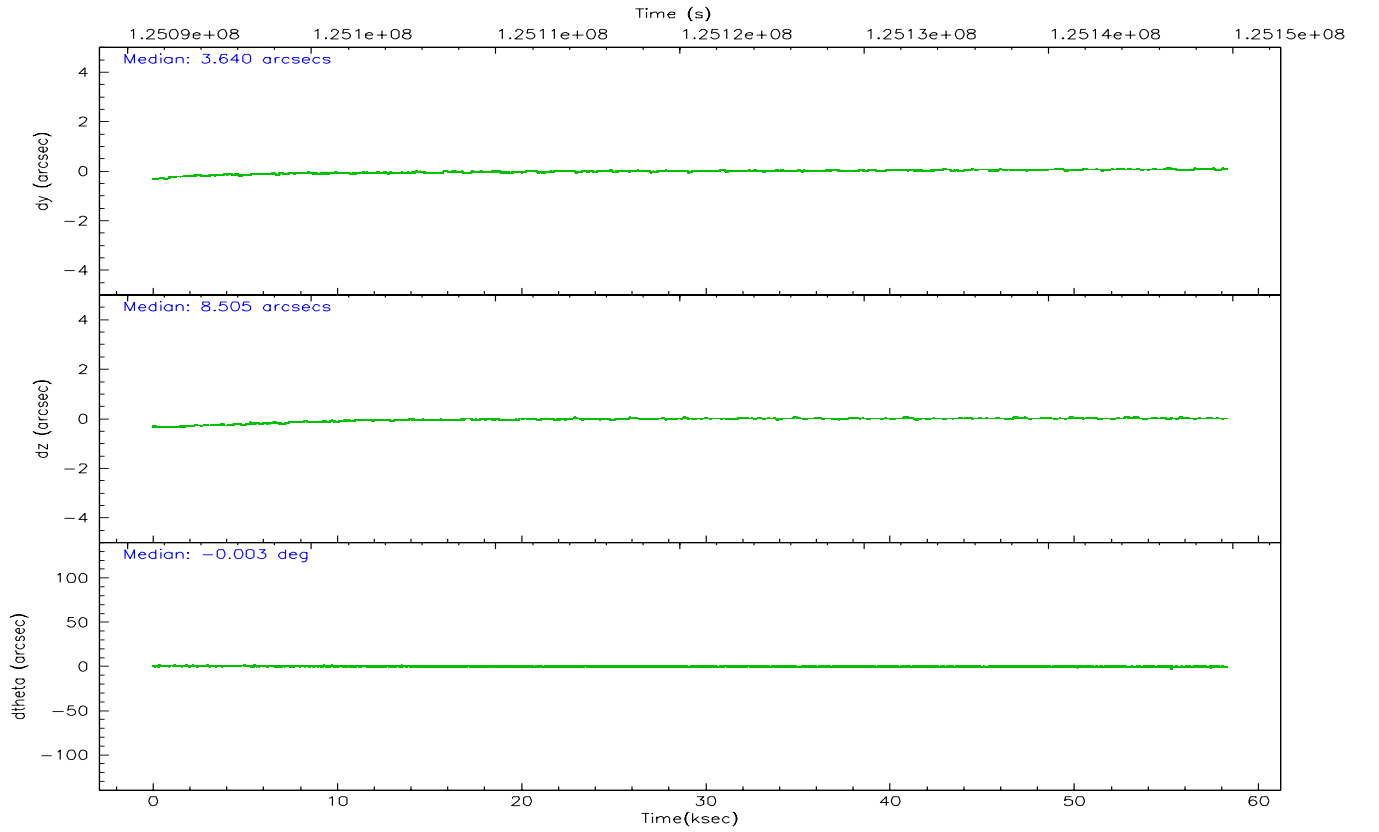
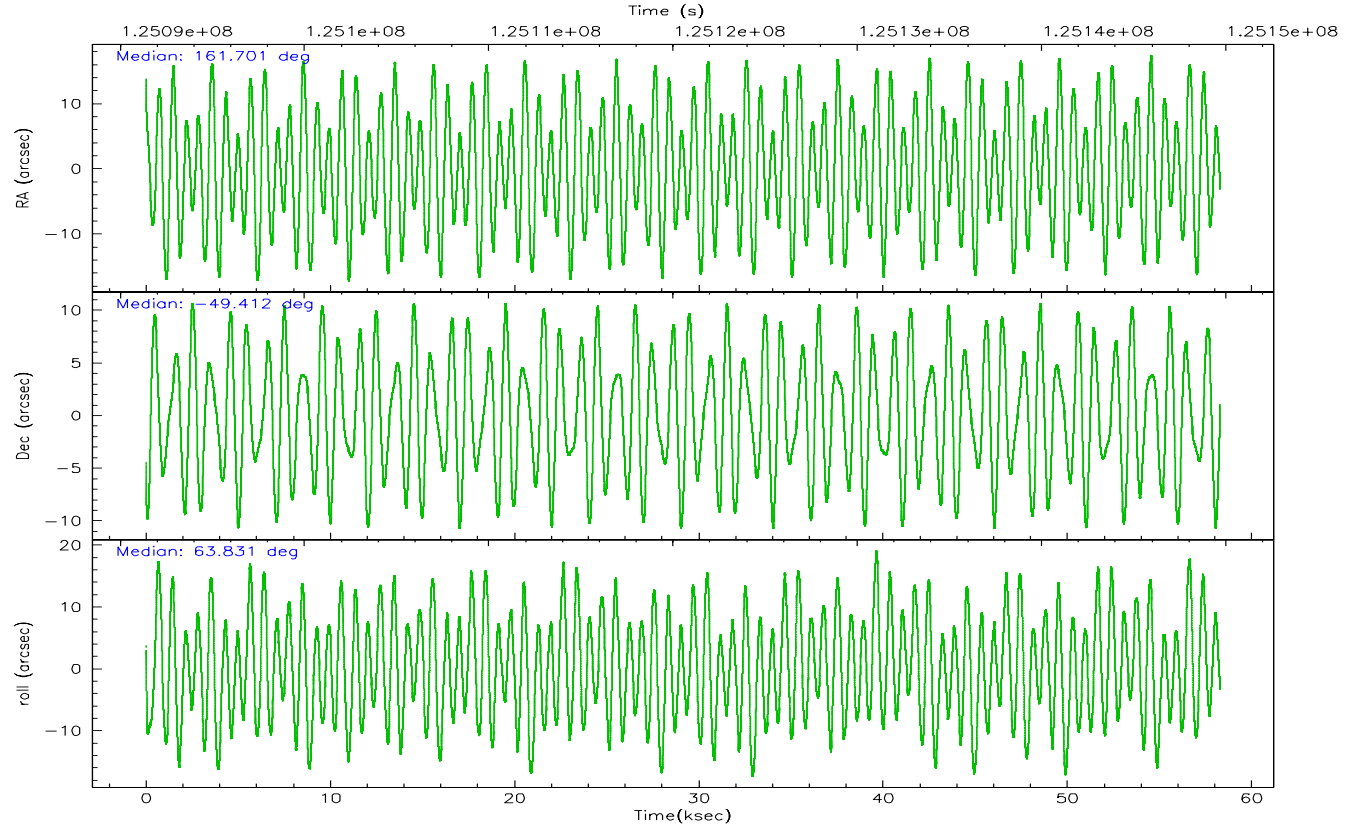
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	18230	38476	21525	20511	35643	18266
	4%	6%	5%	4%	7%	4%
grade 1 events	203	616	207	647	317	170
	0%	0%	0%	0%	0%	0%
grade 2 events	11069	74162	9228	41603	21483	9419
	2%	13%	2%	8%	4%	2%
grade 3 events	4218	10708	4375	19204	11409	4384
	1%	1%	1%	3%	2%	1%
grade 4 events	3987	9772	4298	19005	10311	4188
	0%	1%	1%	3%	2%	1%
grade 5 events	13316	45081	16328	47418	20854	16237
	3%	8%	4%	9%	4%	4%
grade 6 events	7922	126073	8726	108057	25925	8798
	1%	22%	2%	21%	5%	2%
grade 7 events	353476	252072	315559	238763	356771	314142
	85%	45%	82%	48%	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	161.704247	161.7009501177741	Subarray requested	NONE	NONE
Pointing Dec	-49.439350	-49.41218022695608	Alternating exposures requested	N	N
Pointing Roll	63.683034	63.83715713370665	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	125091696.184000	125090658.52863			
Observation start date	2001-12-18T19:40:32	2001-12-18T19:24:18			
Observation end time	125149696.184000	125150550.81853			
Observation end date	2001-12-19T11:47:12	2001-12-19T12:02:30			
Read mode	TIMED	TIMED			

2.3 Aspect



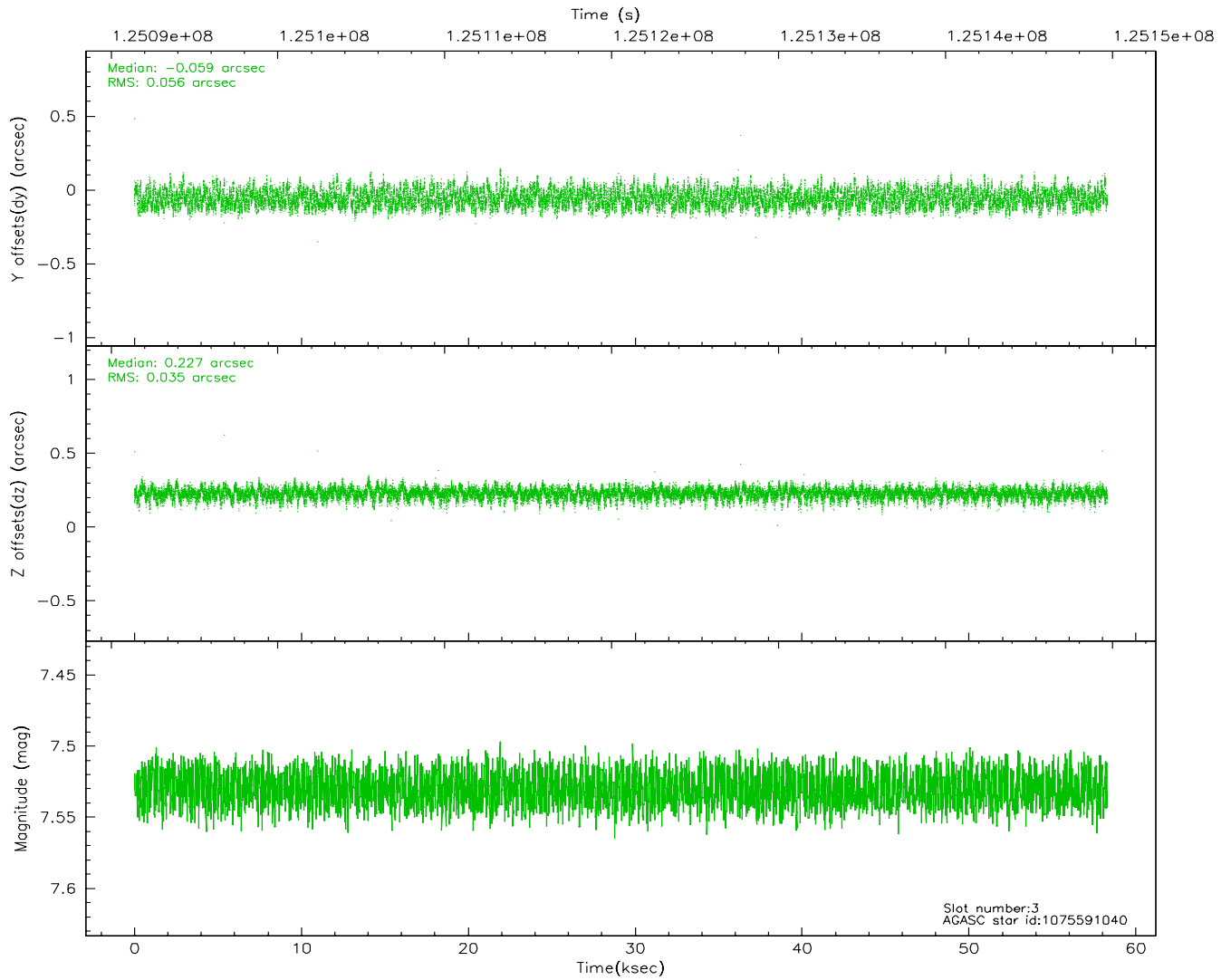
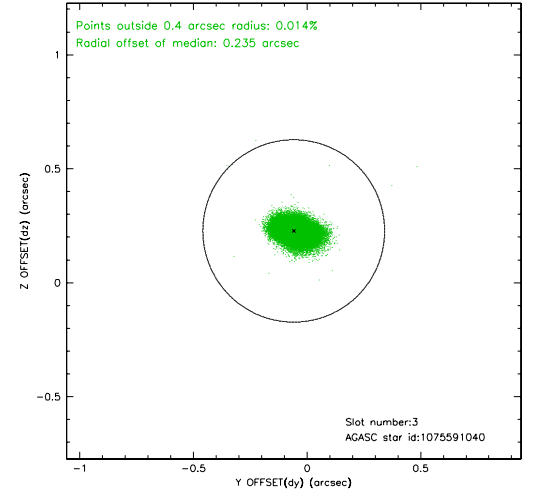
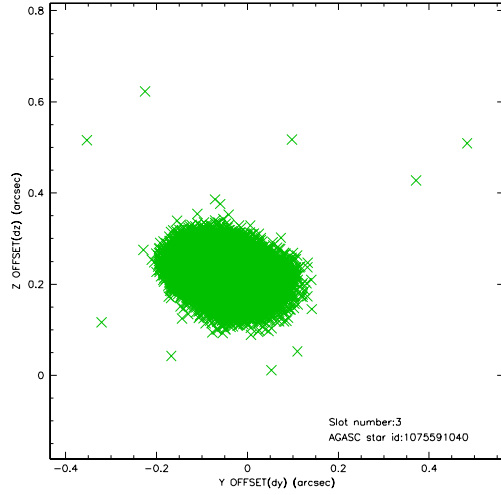


Slot Statistics

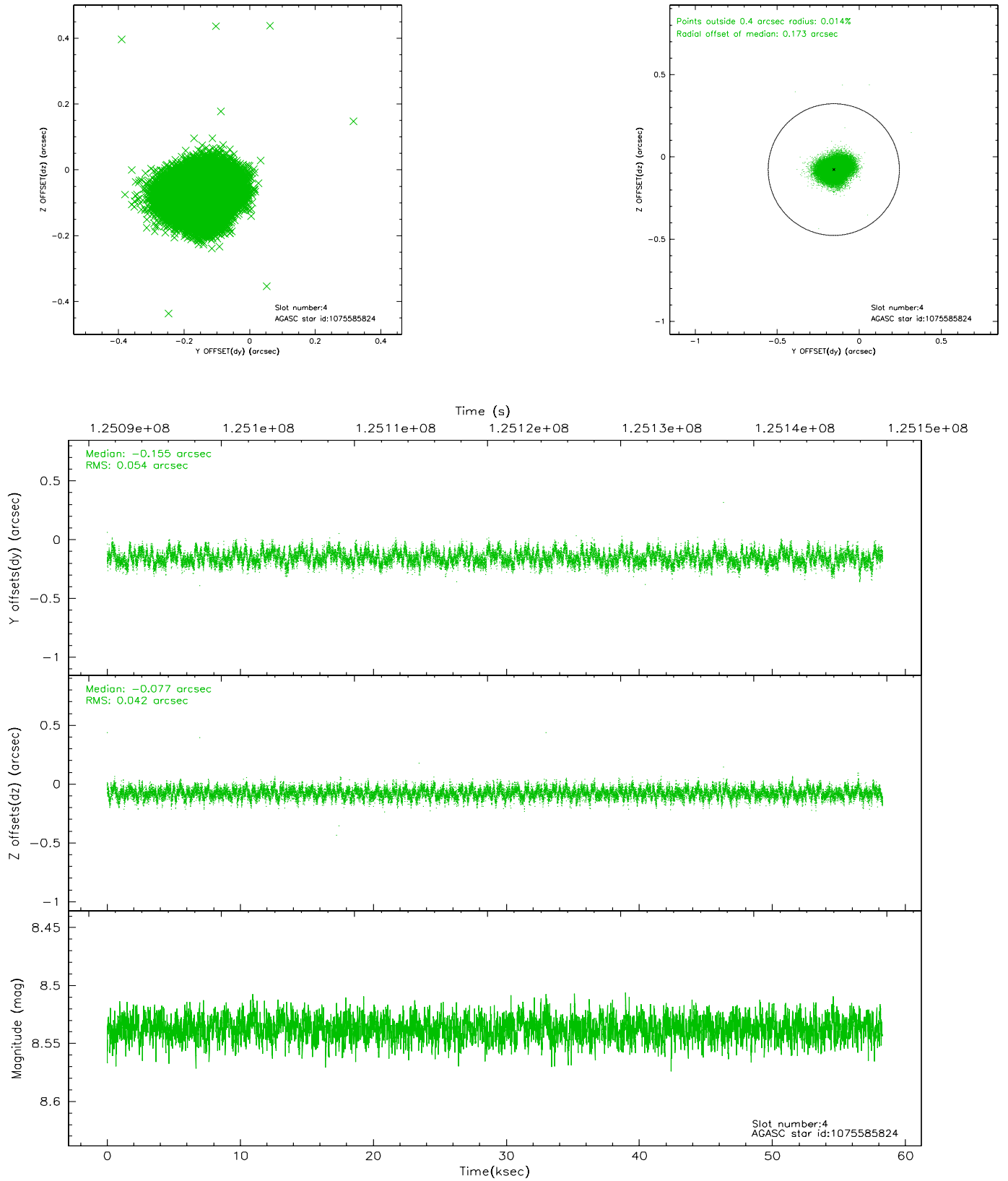
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	14217	-0.078	-0.003	0.008	0.014	0.000000	0.000000	56.79	-1858.74
1	FID	ACIS-S-4	7.20	14216	-0.010	0.043	0.007	0.013	0.000000	0.000000	2157.06	178.83
2	FID	ACIS-S-5	7.24	14216	0.060	-0.030	0.007	0.013	0.000000	0.000000	-1809.11	172.49
3	GUIDE	1075591040	7.53	28431	-0.059	0.227	0.069	0.112	162.767737	-49.503631	878.90	-2338.54
4	GUIDE	1075585824	8.54	28430	-0.155	-0.077	0.073	0.116	161.885623	-48.861959	2052.59	536.28
5	GUIDE	1075578760	8.91	28416	0.117	-0.152	0.086	0.141	160.997233	-49.587657	-1217.39	1238.68
6	GUIDE	1075588216	8.74	28424	0.156	0.180	0.086	0.138	162.306952	-50.096423	-1508.32	-2298.82
7	GUIDE	1075582752	10.25	28406	-0.067	-0.177	0.151	0.244	161.181052	-48.814378	1462.35	2107.25

2.4 Star Slots

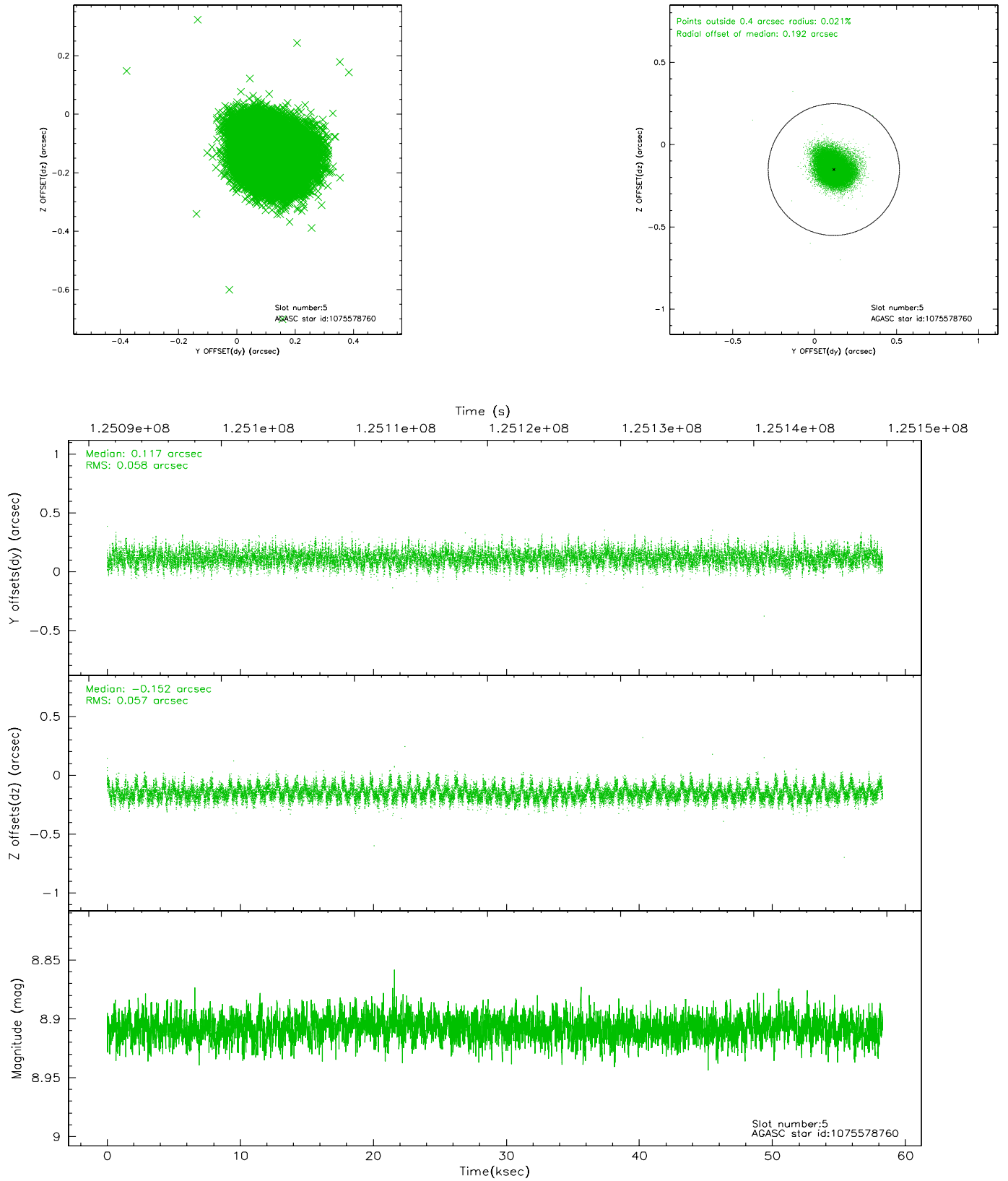
2.4.1 Slot 3



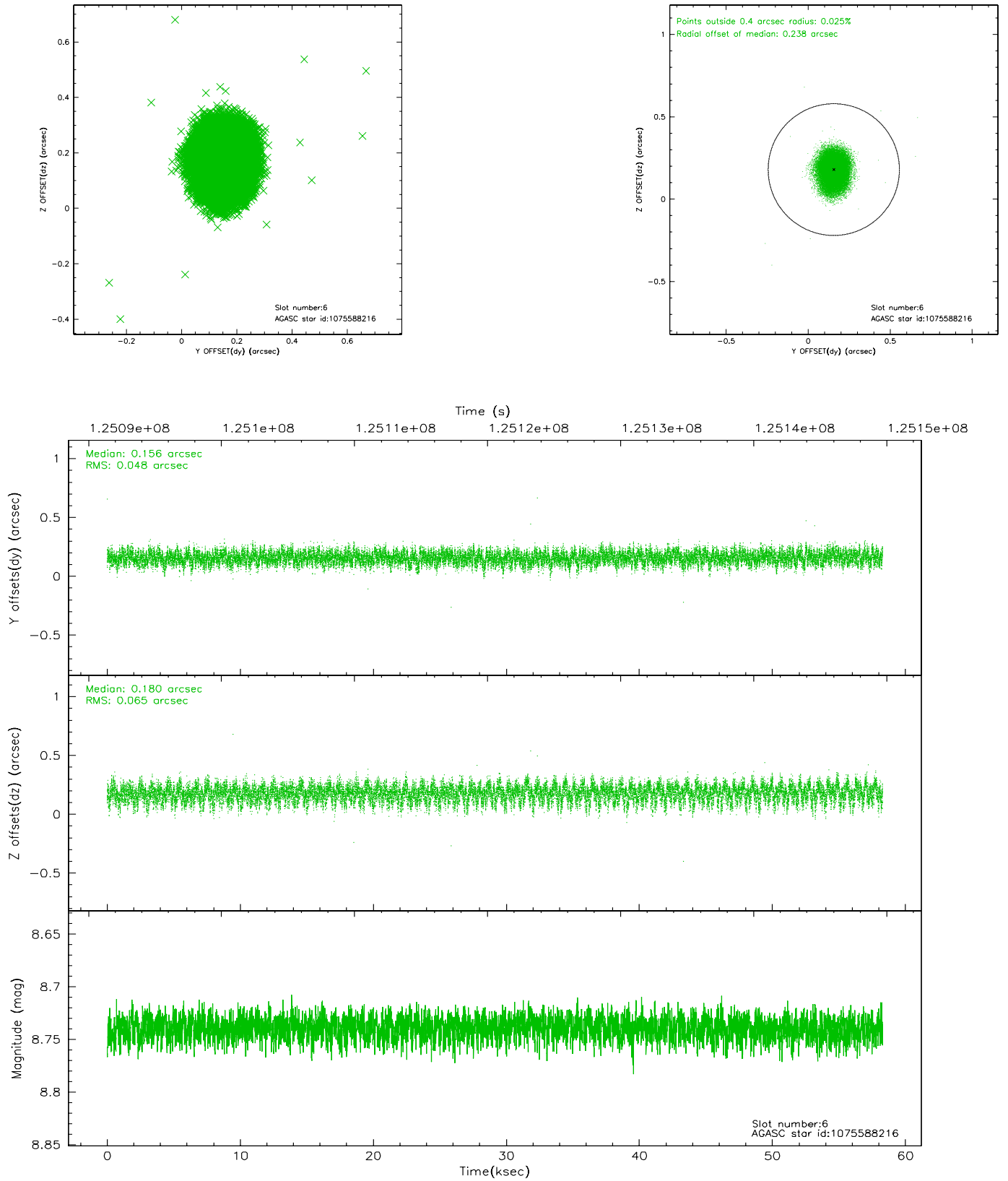
2.4.2 Slot 4



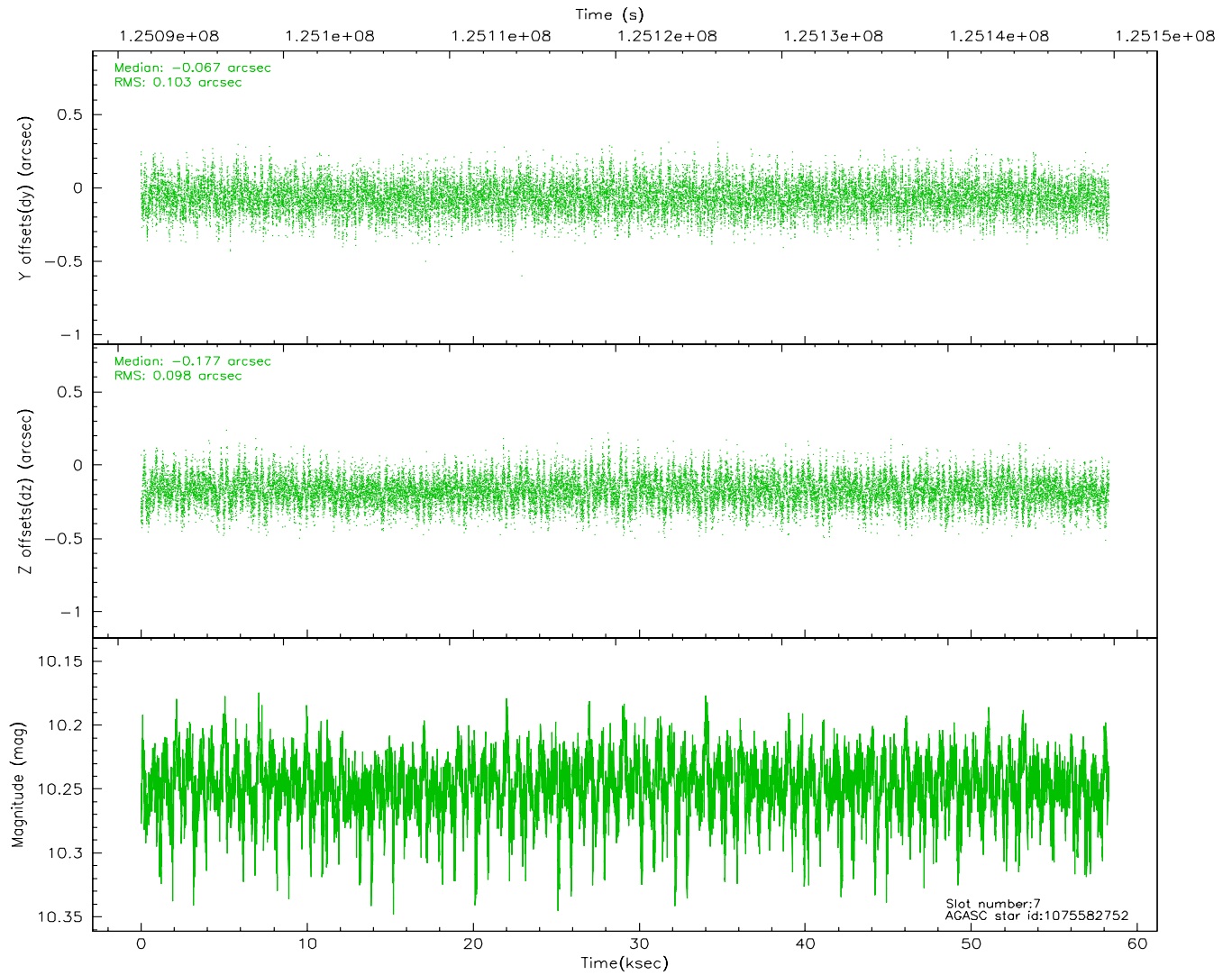
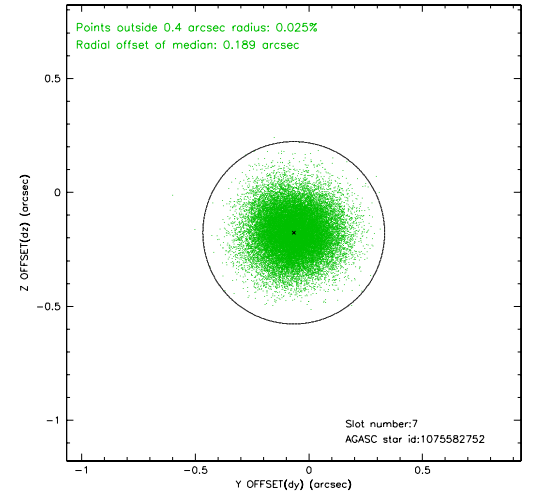
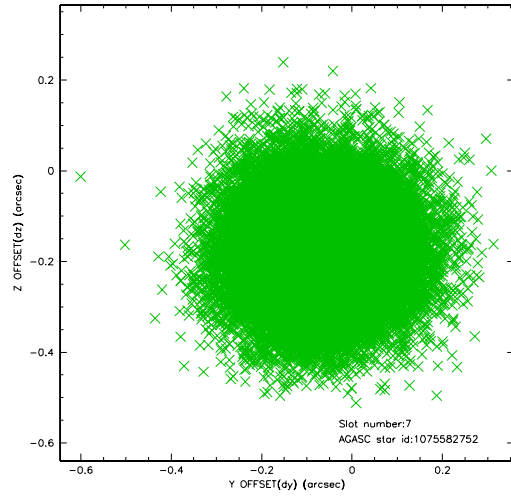
2.4.3 Slot 5



2.4.4 Slot 6

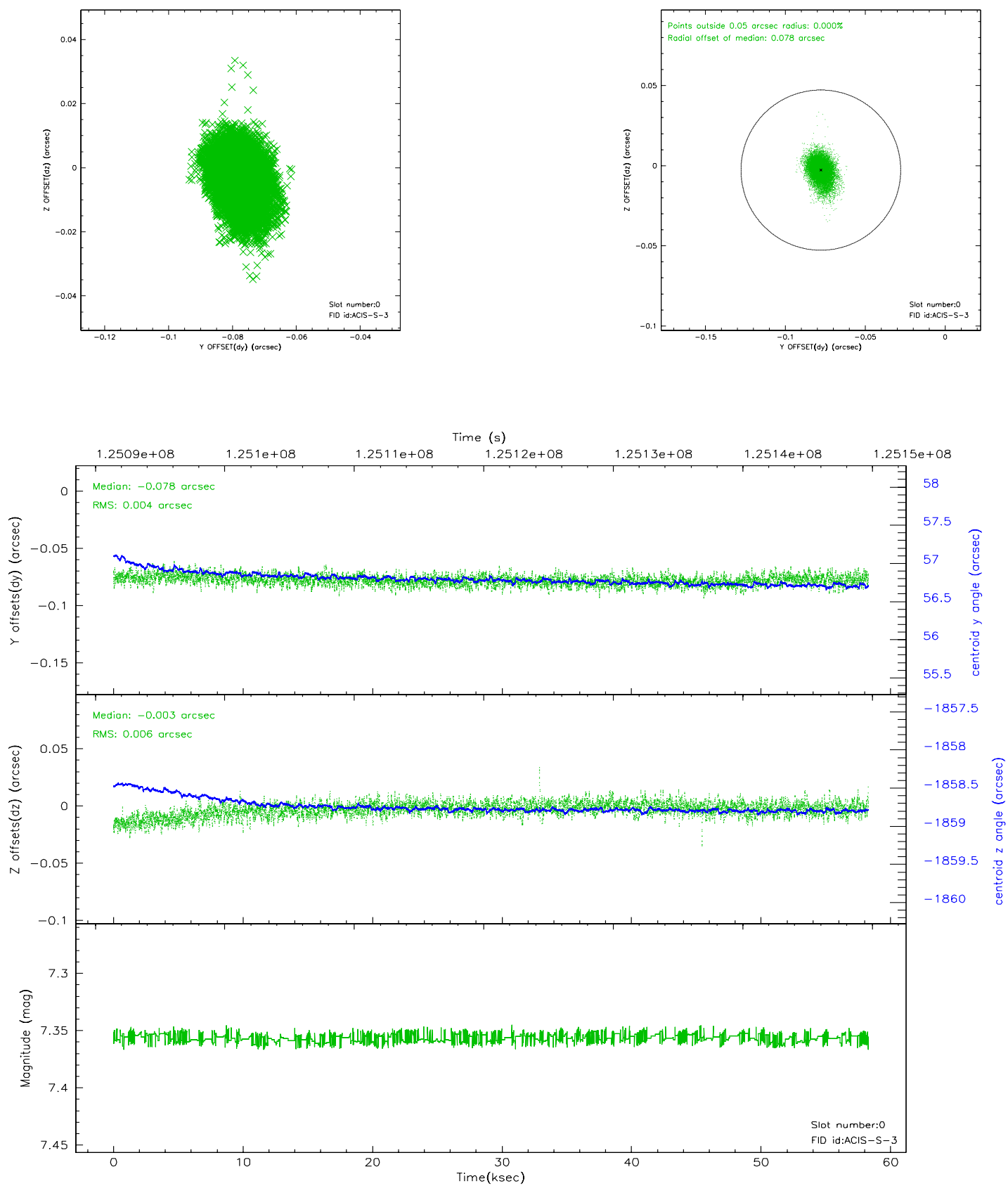


2.4.5 Slot 7

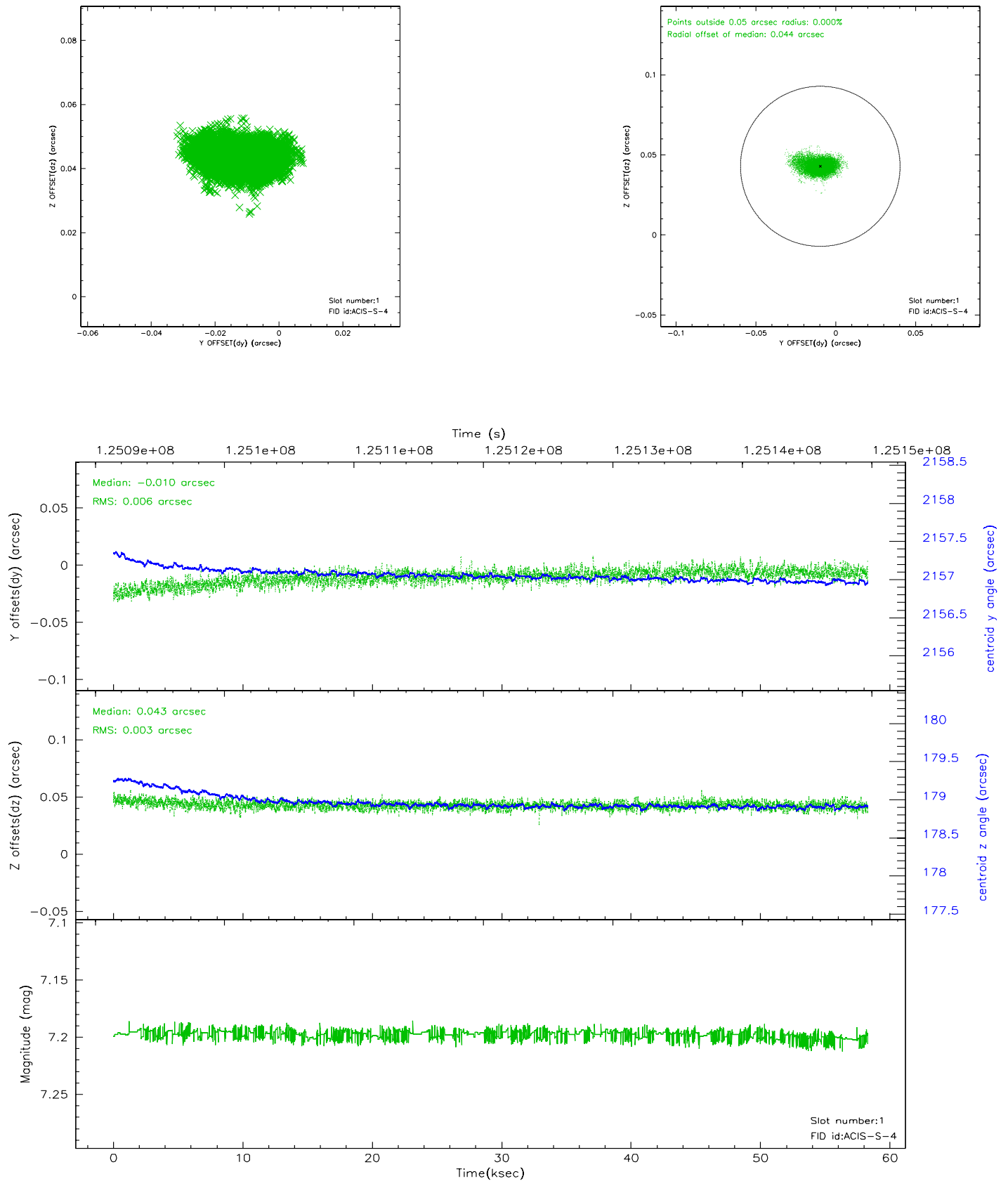


2.5 FID Slots

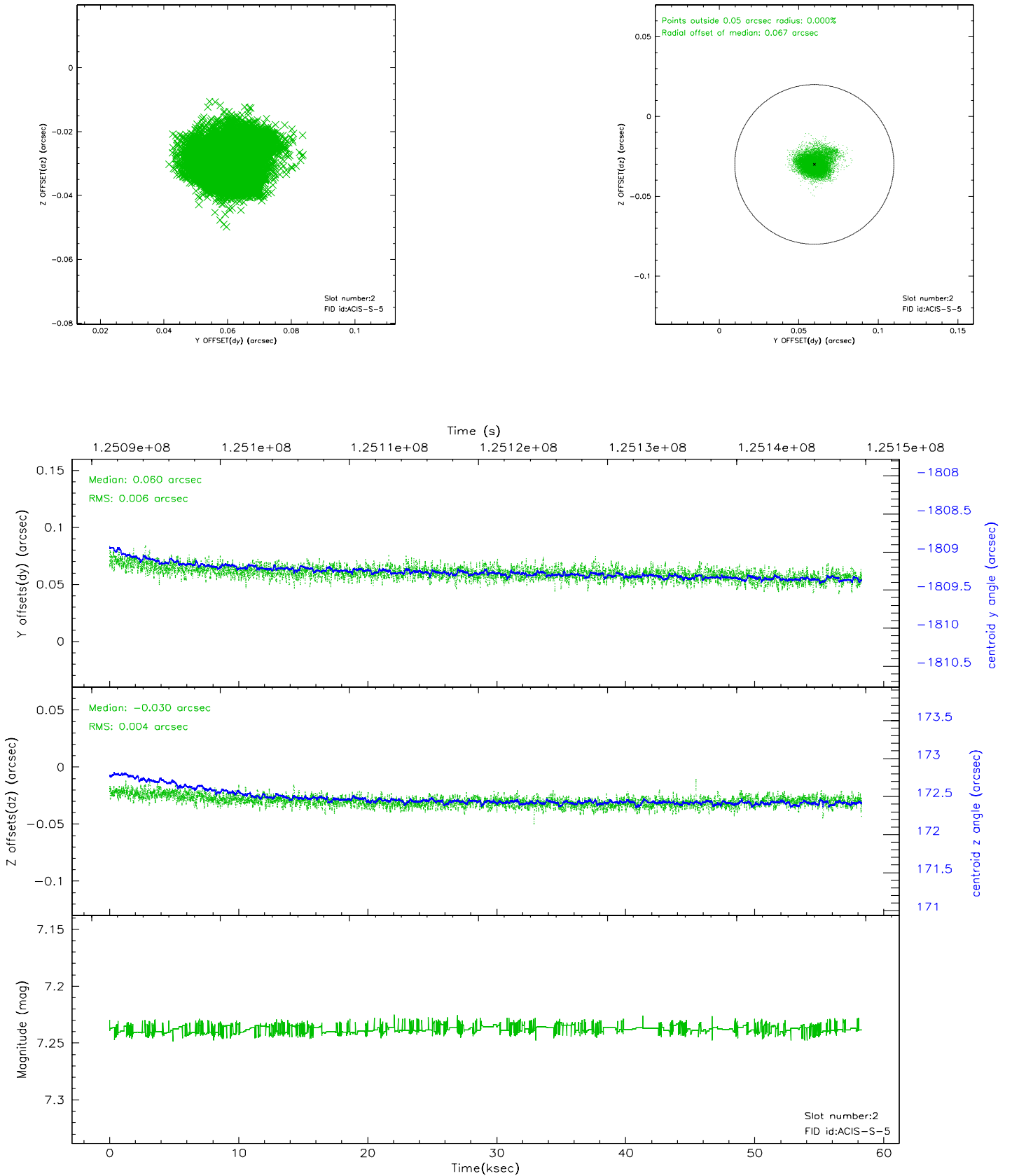
2.5.1 Slot 0



2.5.2 Slot 1

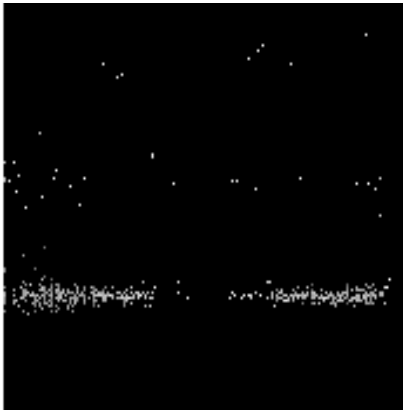


2.5.3 Slot 2

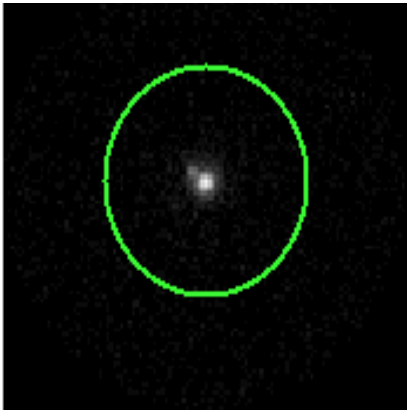


3 Gratings

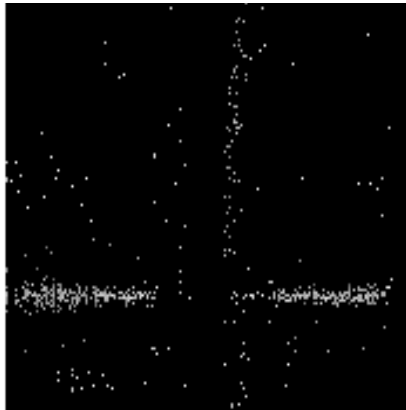
3.1 HEG Arm



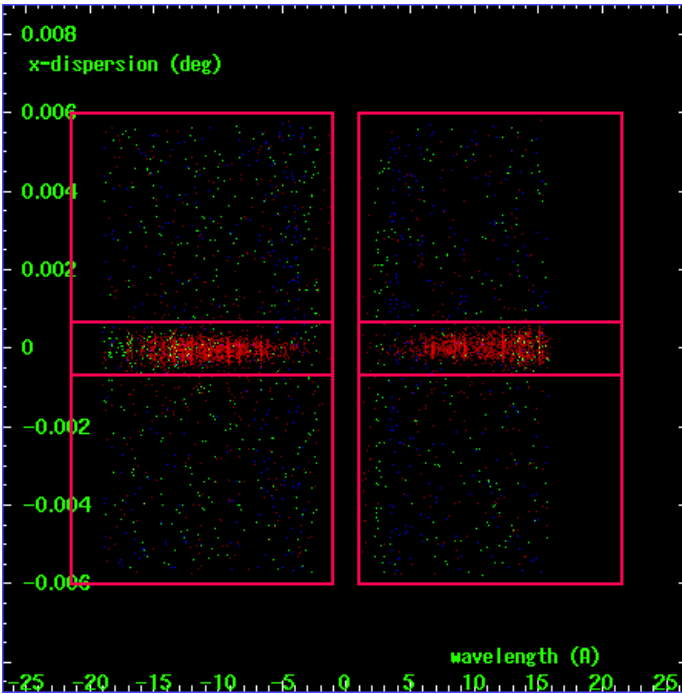
HEG Order Sort 123



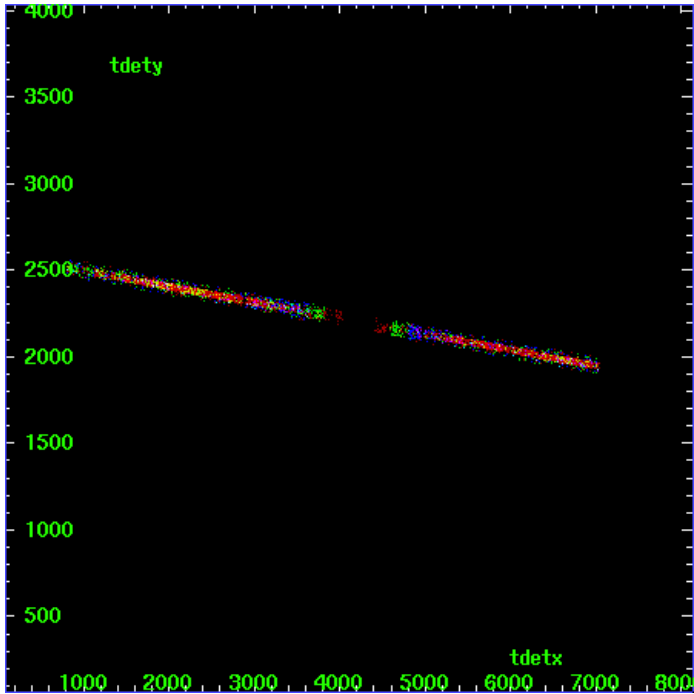
HEG Zero Order



HEG Order Sort ALL

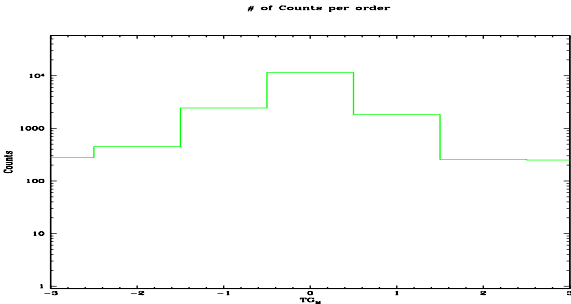


Spot Image HEG

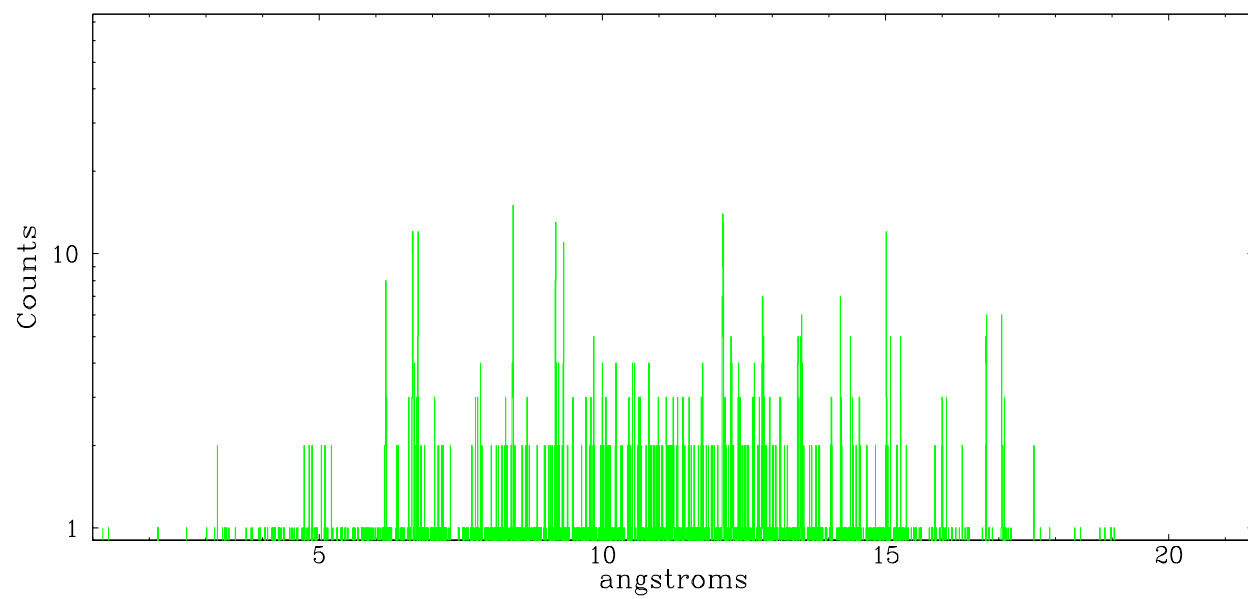


Full Detector HEG

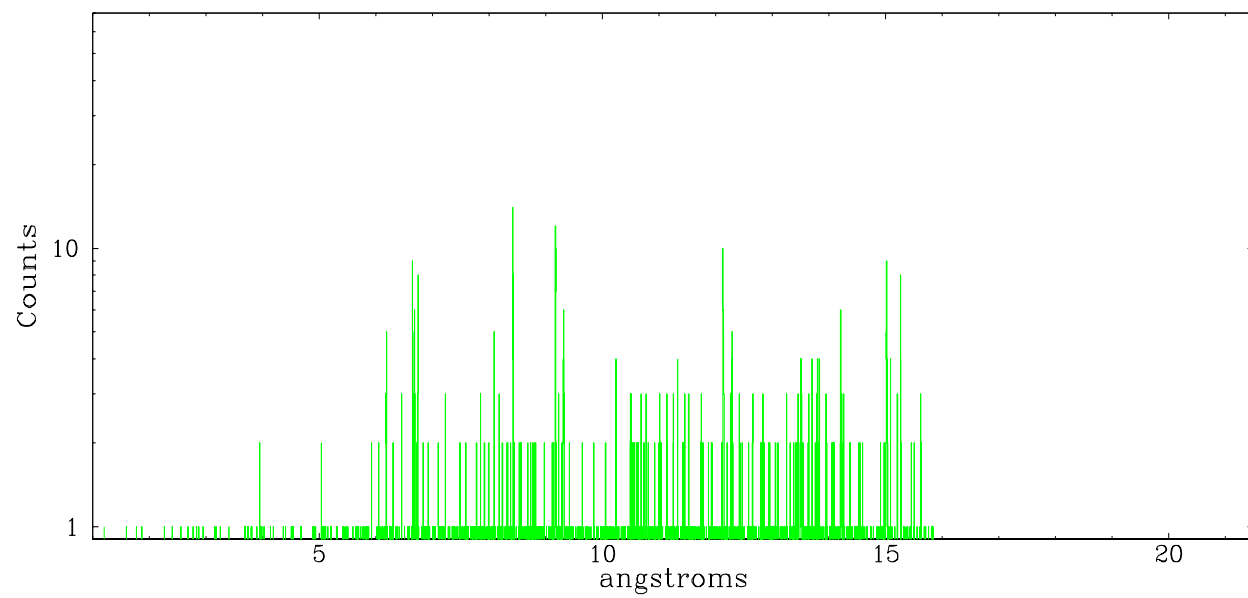
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	278	449	2446	11547	1826	255	250



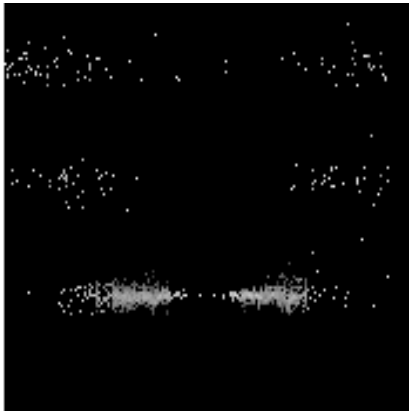
heg order -1



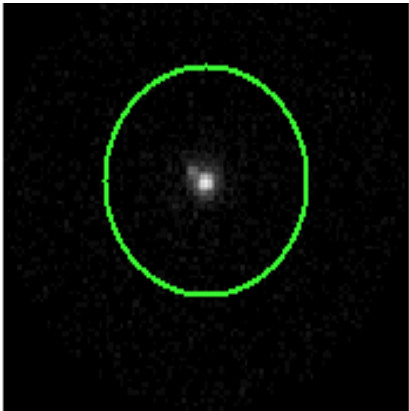
heg order +1



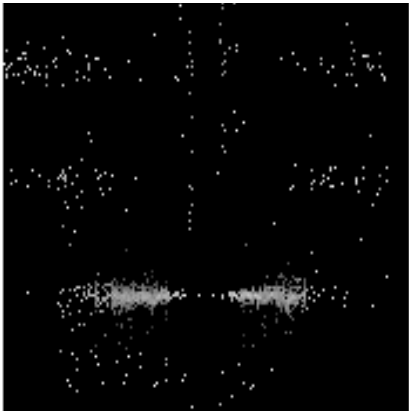
3.2 MEG Arm



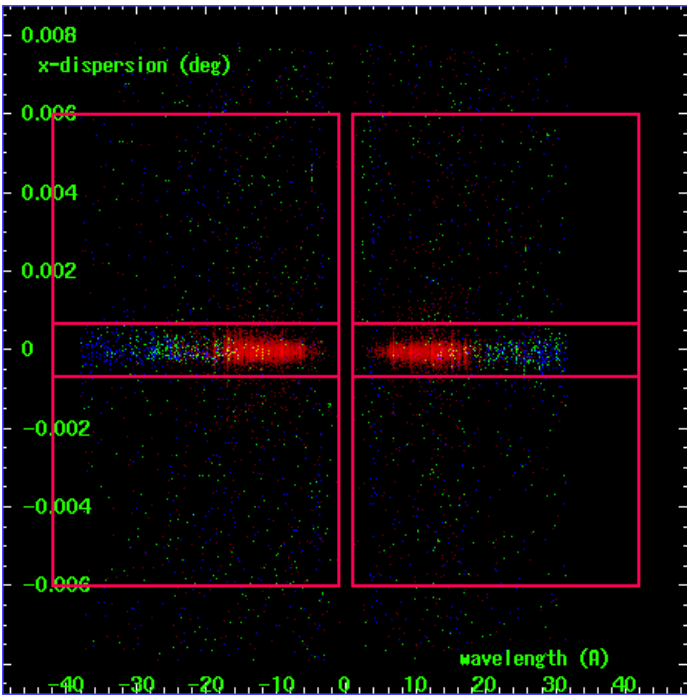
MEG Order Sort 123



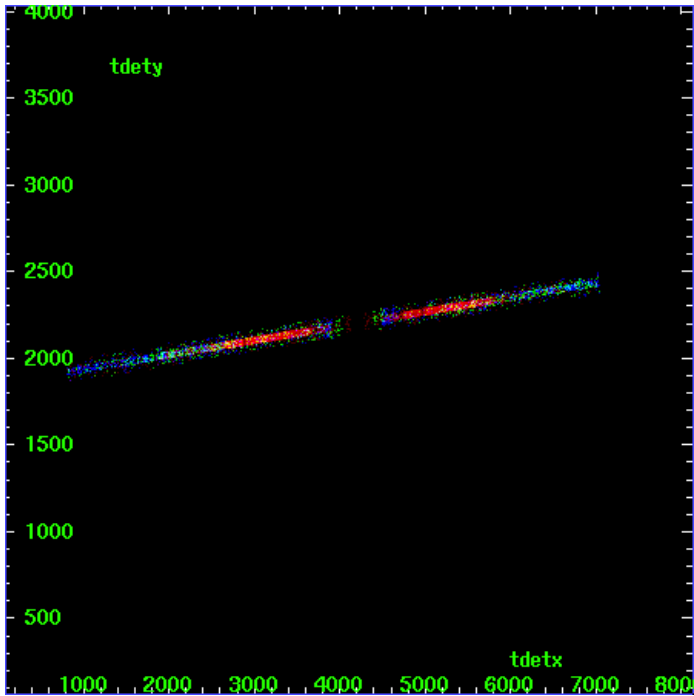
MEG Zero Order



MEG Order Sort ALL

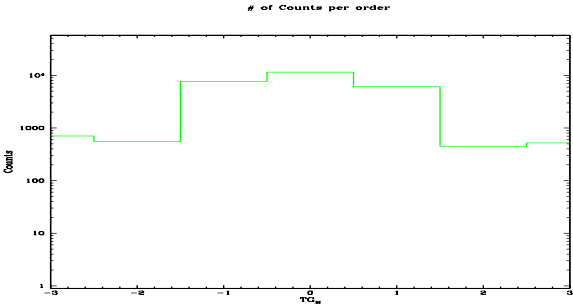


Spot Image MEG

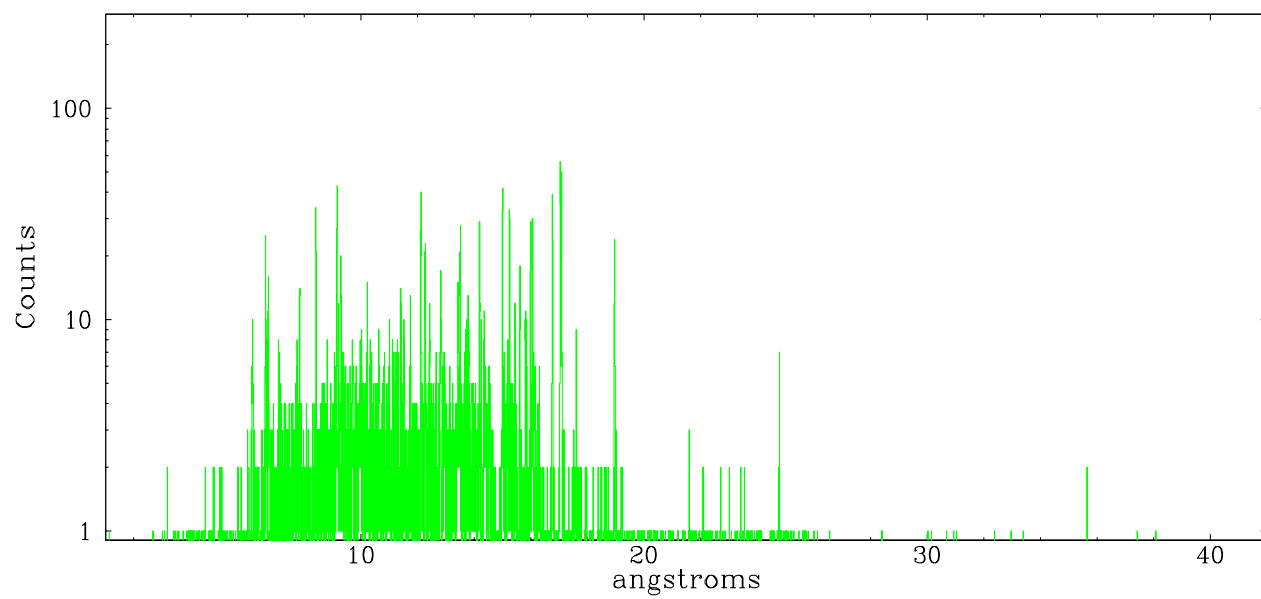


Full Detector MEG

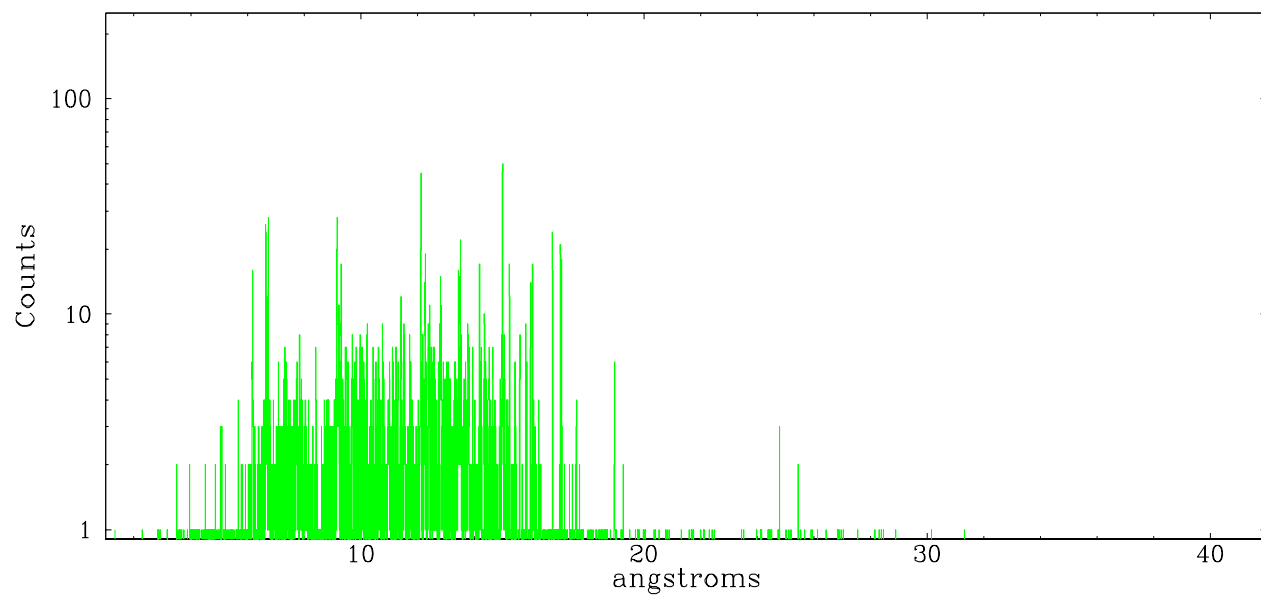
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	703	556	7714	11547	6077	449	520



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.01.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	57.737

A.2 Comments