

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5173 - L2 Version 002
Chandra X-Ray Center

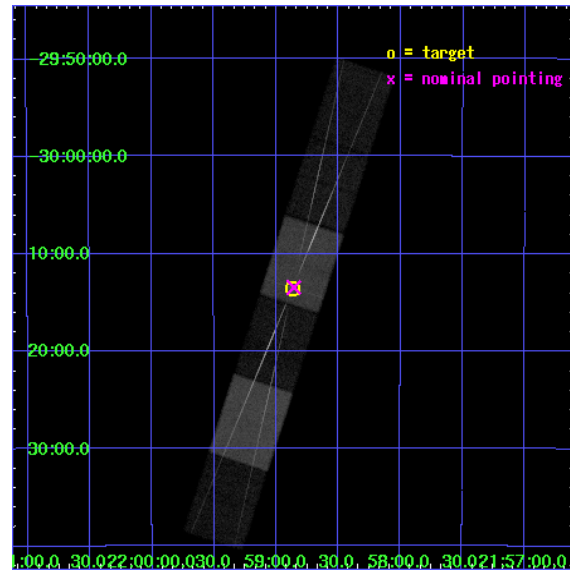
L2 Processing Date : Apr 10 2006

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1 Front

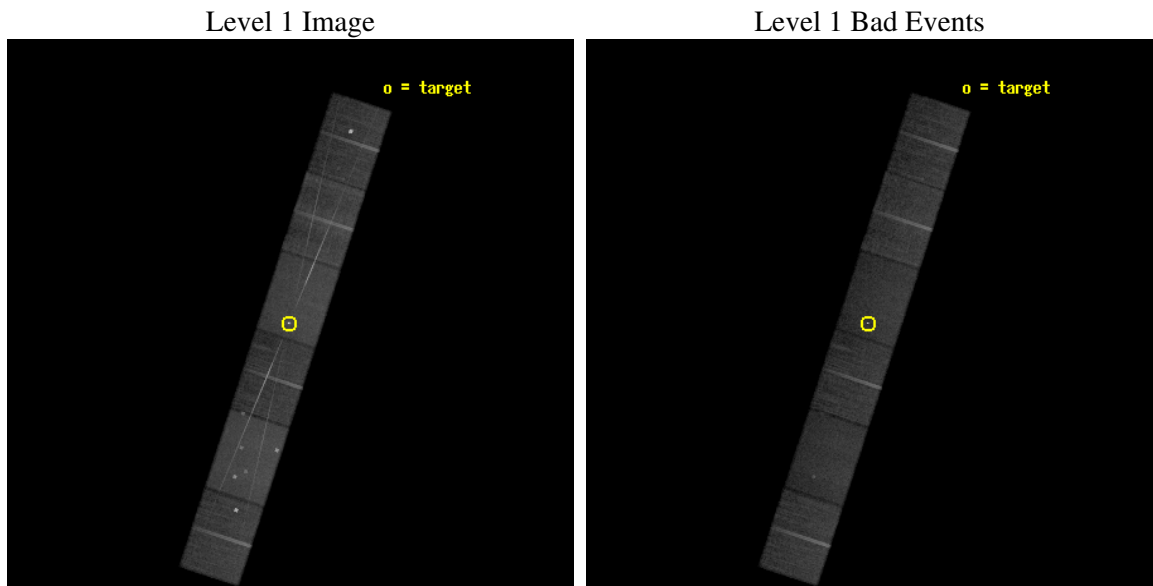
seq_num	790093
obs_id	5173
title	AO5 Calibration Observations of PKS2155-304
observer	Dr. CXC Calibration
object	PKS2155-304
dtcycle	0
cycle	P
ra_targ	329.716667
dec_targ	-30.225556
ra_nom	329.71430933738
dec_nom	-30.224641206469
roll_nom	288.08882229727
revision	2
ontime	27145.0
livetime	26706.584705475
ontime4	27145.0
ontime5	27145.0
ontime6	27145.0
ontime7	27145.0
ontime8	27145.0
ontime9	27145.0
l2events	312477



2 OBI

2.1 OBI

2.1.1 Images

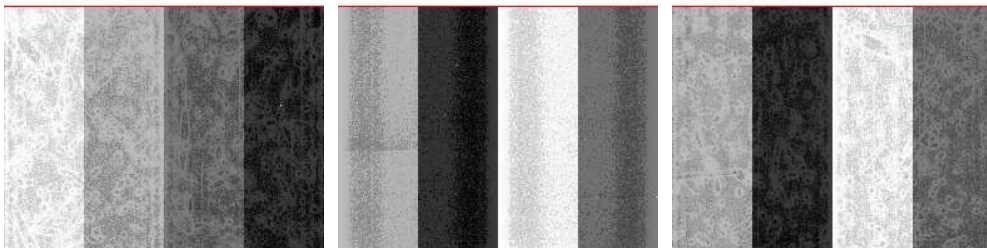


2.1.2 Bias

Chip 4

Chip 5

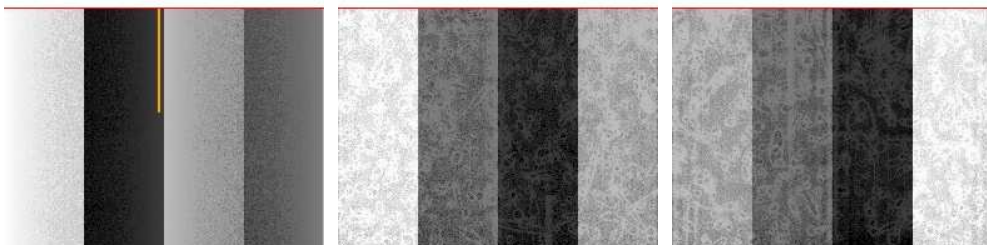
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-04-10T12:12:25
revision	2

sched_exp_time	27000.000000
ontime	27348.909308553
ontime4	27348.909308553
ontime5	27348.909308553
ontime6	27348.909308553
ontime7	27348.909308553
ontime8	27348.909308553
ontime9	27348.909308553
l1events	1276610

2.1.4 Events

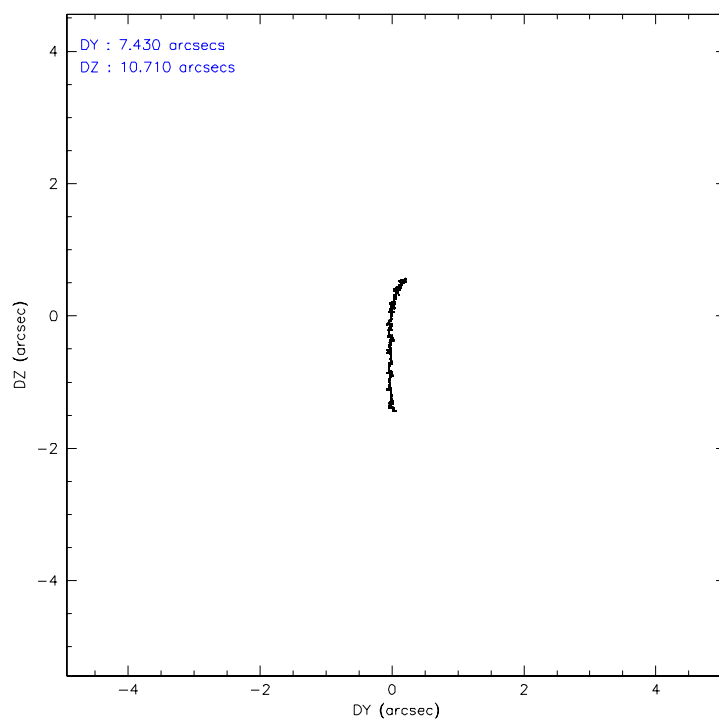
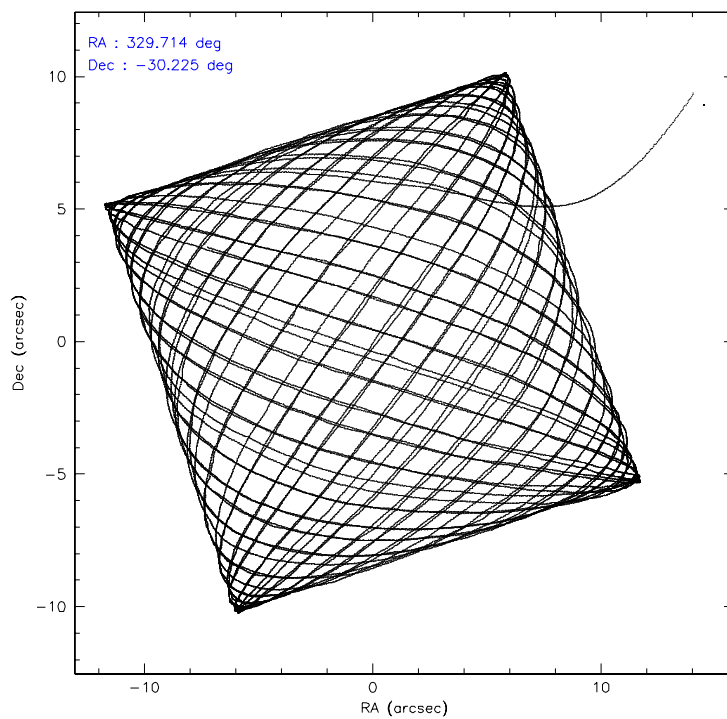
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	196888	256080	184317	244727	220776	173822
rejected events	165870	134553	147926	139905	164436	140882
rejected %	84%	52%	80%	57%	74%	81%

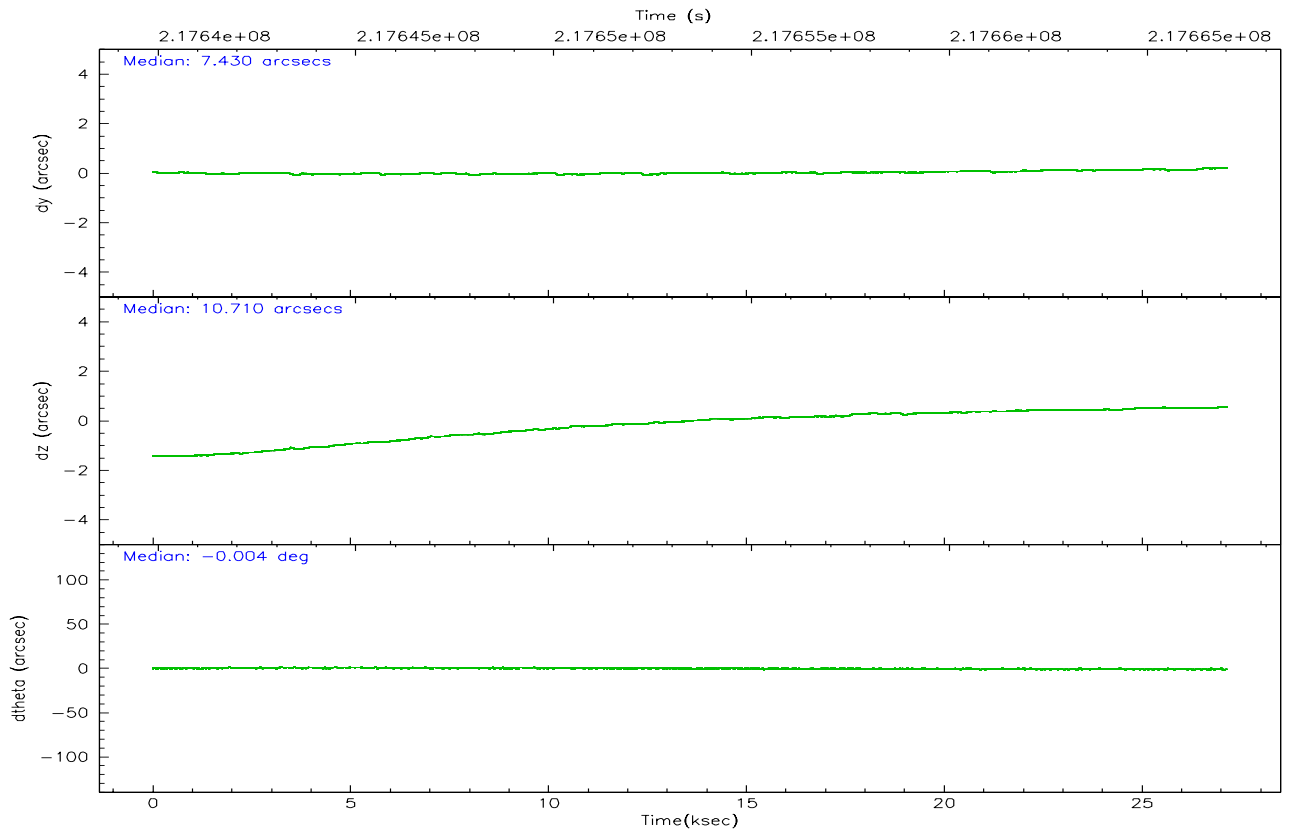
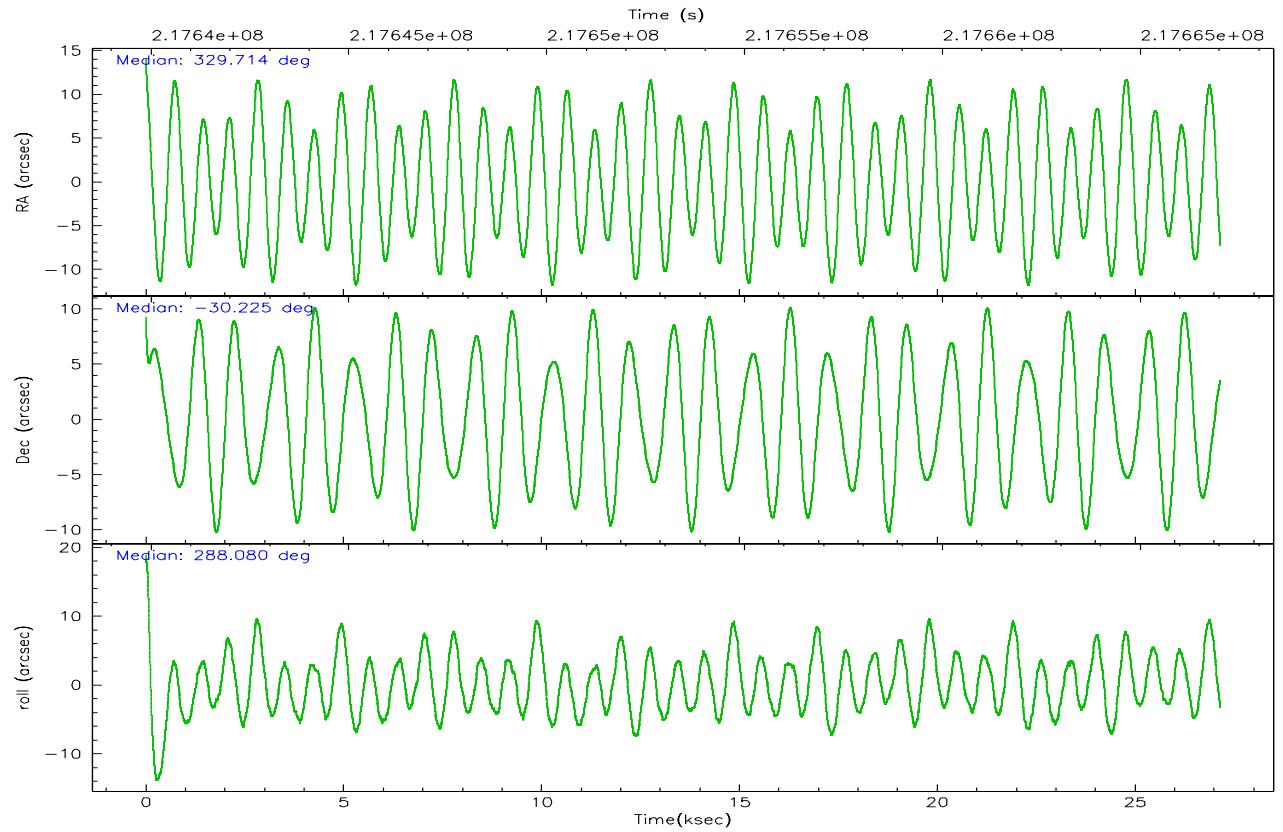
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	18952	17560	21589	9145	23930	10550
	9%	6%	11%	3%	10%	6%
grade 1 events	162	682	123	367	170	82
	0%	0%	0%	0%	0%	0%
grade 2 events	4665	35825	5911	25866	10920	14499
	2%	13%	3%	10%	4%	8%
grade 3 events	2257	3657	2536	6655	5085	2161
	1%	1%	1%	2%	2%	1%
grade 4 events	2053	3741	2488	6637	4770	2084
	1%	1%	1%	2%	2%	1%
grade 5 events	7114	12270	7259	16236	9717	7738
	3%	4%	3%	6%	4%	4%
grade 6 events	3324	61699	4126	57329	11993	3875
	1%	24%	2%	23%	5%	2%
grade 7 events	158361	120646	140285	122492	154191	132833
	80%	47%	76%	50%	69%	76%

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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	329.690572	329.7143093373822	Subarray start row	1	1
Pointing Dec	-30.206748	-30.22464120646913	Subarray row count	774	774
Pointing Roll	287.920248	288.0888222972691	Alternating exposures requested	N	N
Window start time	215654464.184000	215654464.184000	Primary exposure time	0.000000	2.5
Window stop time	220838464.184000	220838464.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.127916318603			
SIM translation stage offset (mm)	-3	-3.004606264404799			
Observation start time	217640025.184000	217638972.31413			
Observation start date	2004-11-23T23:32:41	2004-11-23T23:16:12			
Observation end time	217667025.184000	217667515.49041			
Observation end date	2004-11-24T07:02:41	2004-11-24T07:11:55			
Read mode	TIMED	TIMED			

2.3 Aspect



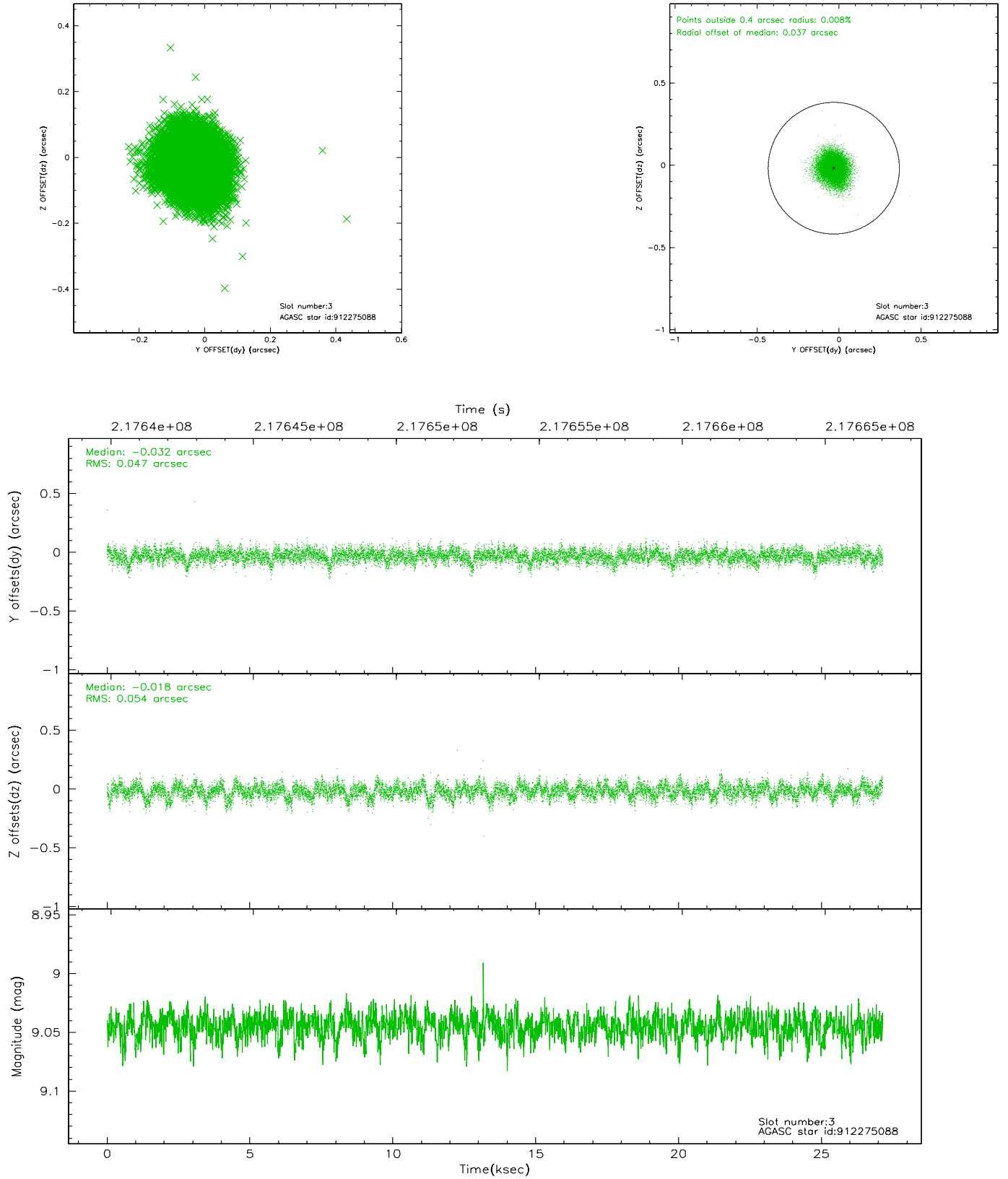


Slot Statistics

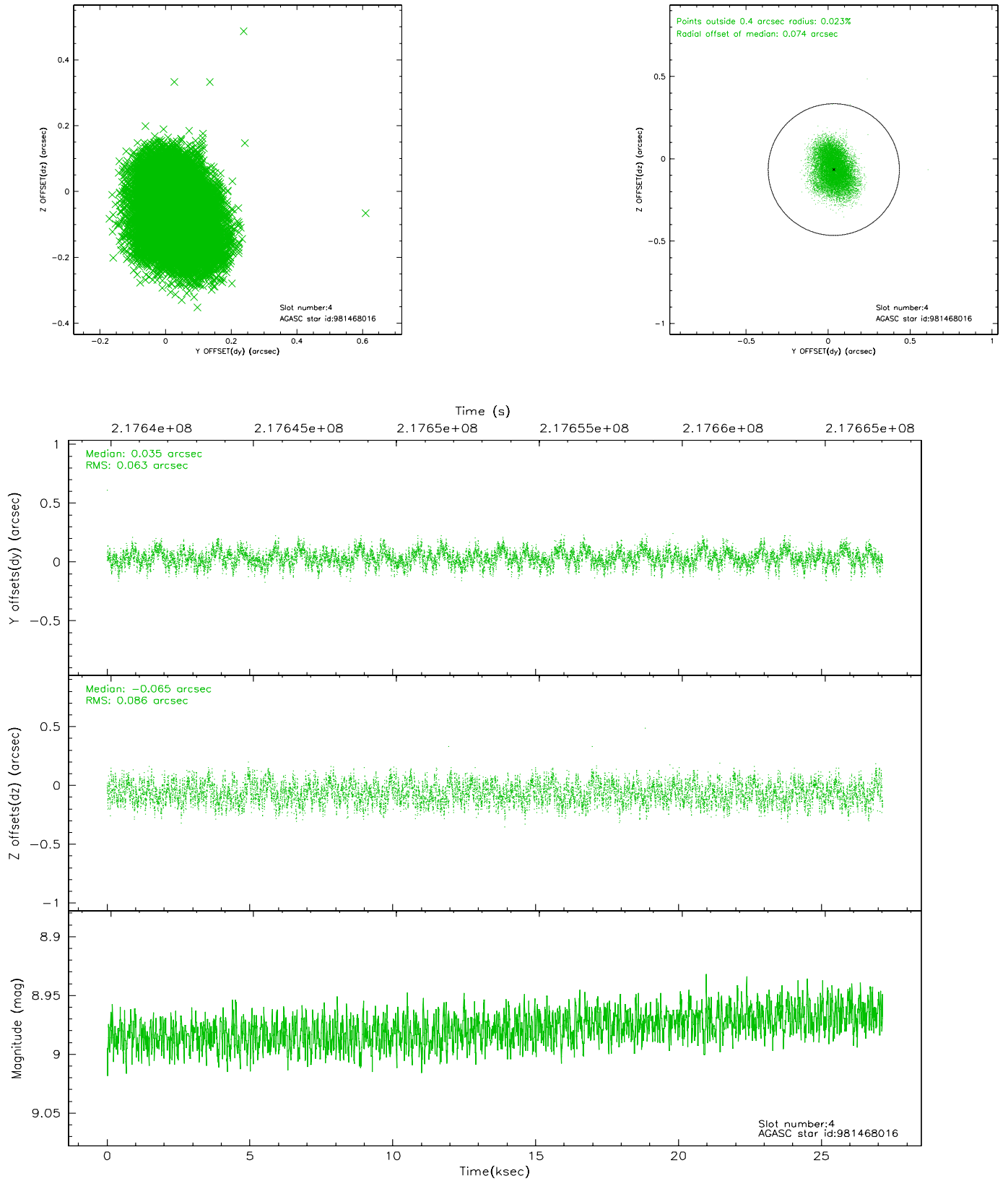
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	6621	-0.071	-0.044	0.006	0.010	0.000000	0.000000	-760.09	-1793.84
1	FID	ACIS-S-4	7.18	6622	0.052	0.044	0.007	0.011	0.000000	0.000000	2153.27	114.61
2	FID	ACIS-S-6	7.37	6622	-0.009	0.007	0.007	0.012	0.000000	0.000000	402.09	752.08
3	GUIDE	912275088	9.04	13231	-0.032	-0.018	0.075	0.124	329.619228	-29.738698	-1671.52	306.38
4	GUIDE	981468016	8.98	13234	0.035	-0.065	0.117	0.179	328.842457	-30.034984	-1391.69	-2327.59
5	GUIDE	981468128	9.36	13231	0.084	0.024	0.091	0.148	329.756350	-30.158334	-102.39	248.73
6	GUIDE	981478152	9.40	13238	0.004	0.126	0.093	0.148	329.415589	-30.057192	-774.49	-649.48
7	GUIDE	912131856	9.76	13229	-0.087	-0.064	0.118	0.186	328.758728	-29.933690	-1817.81	-2467.15

2.4 Star Slots

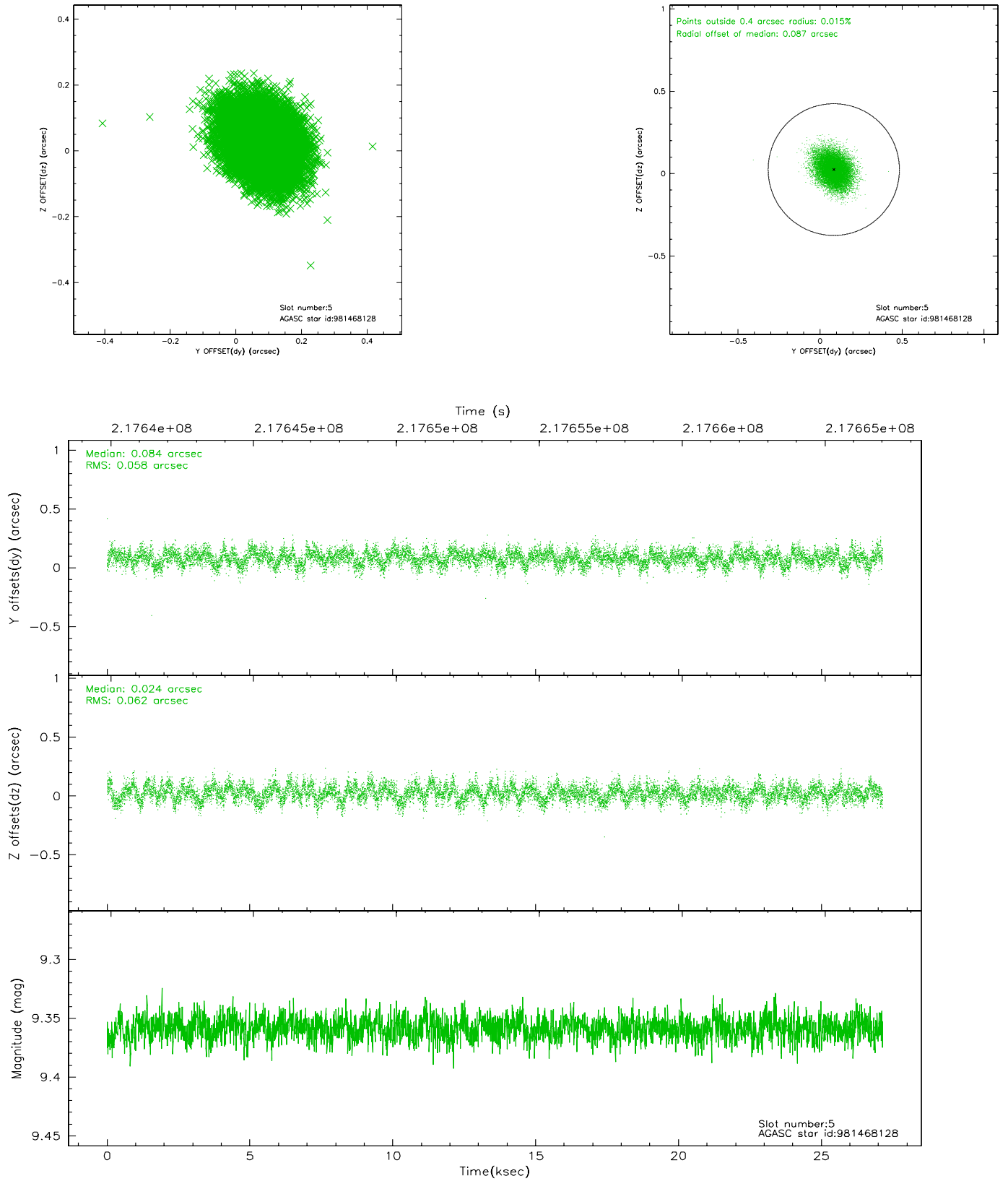
2.4.1 Slot 3



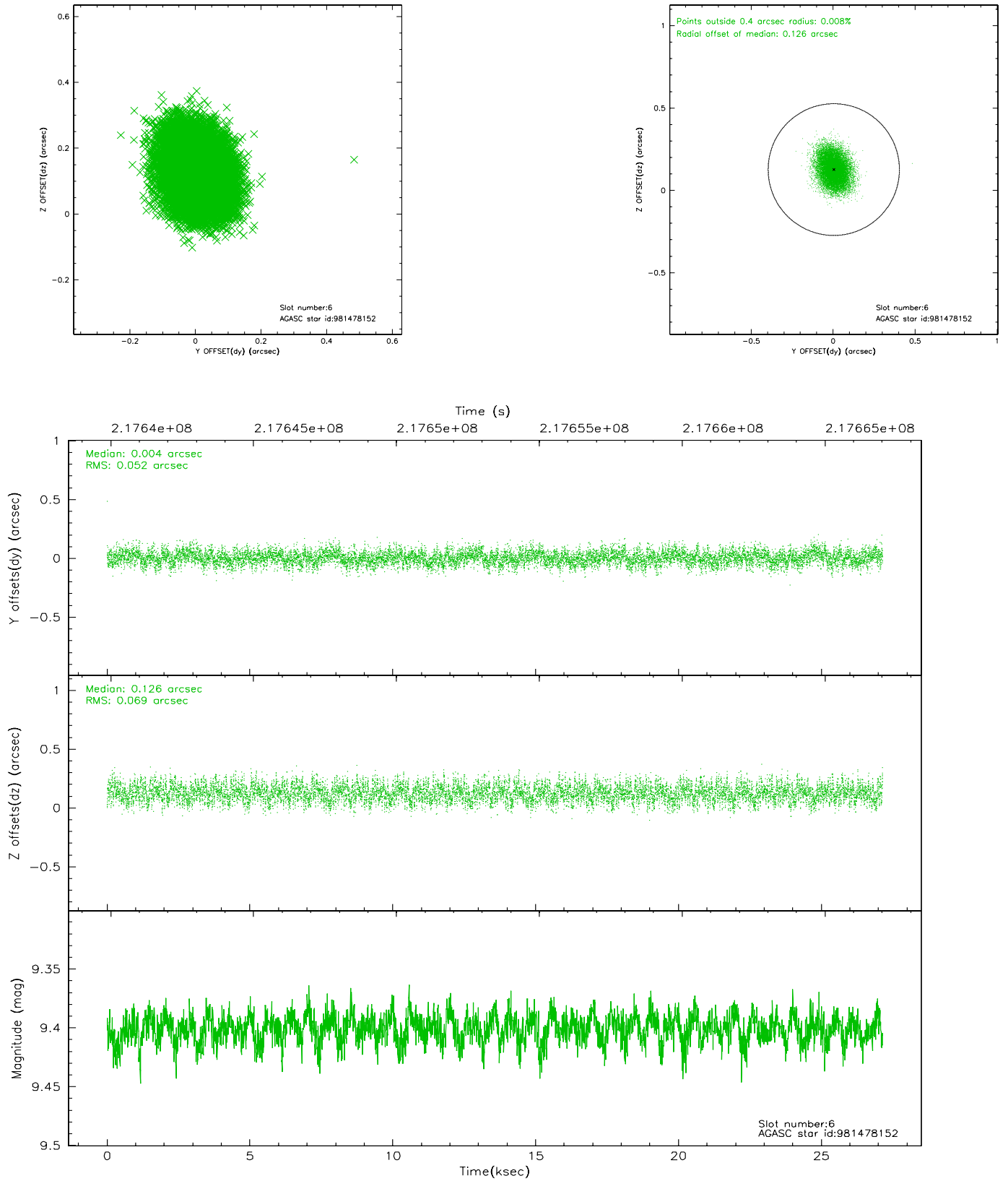
2.4.2 Slot 4



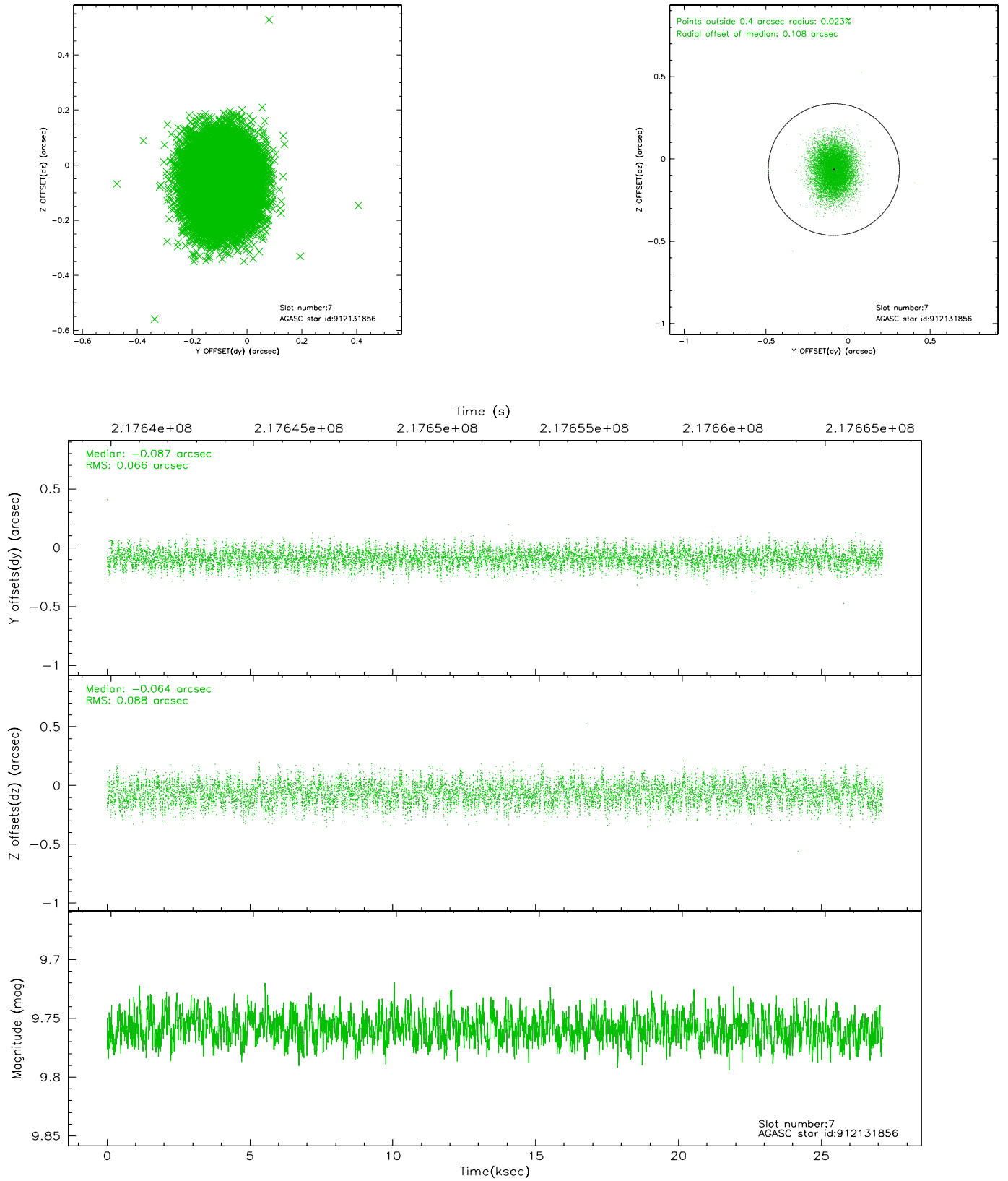
2.4.3 Slot 5



2.4.4 Slot 6

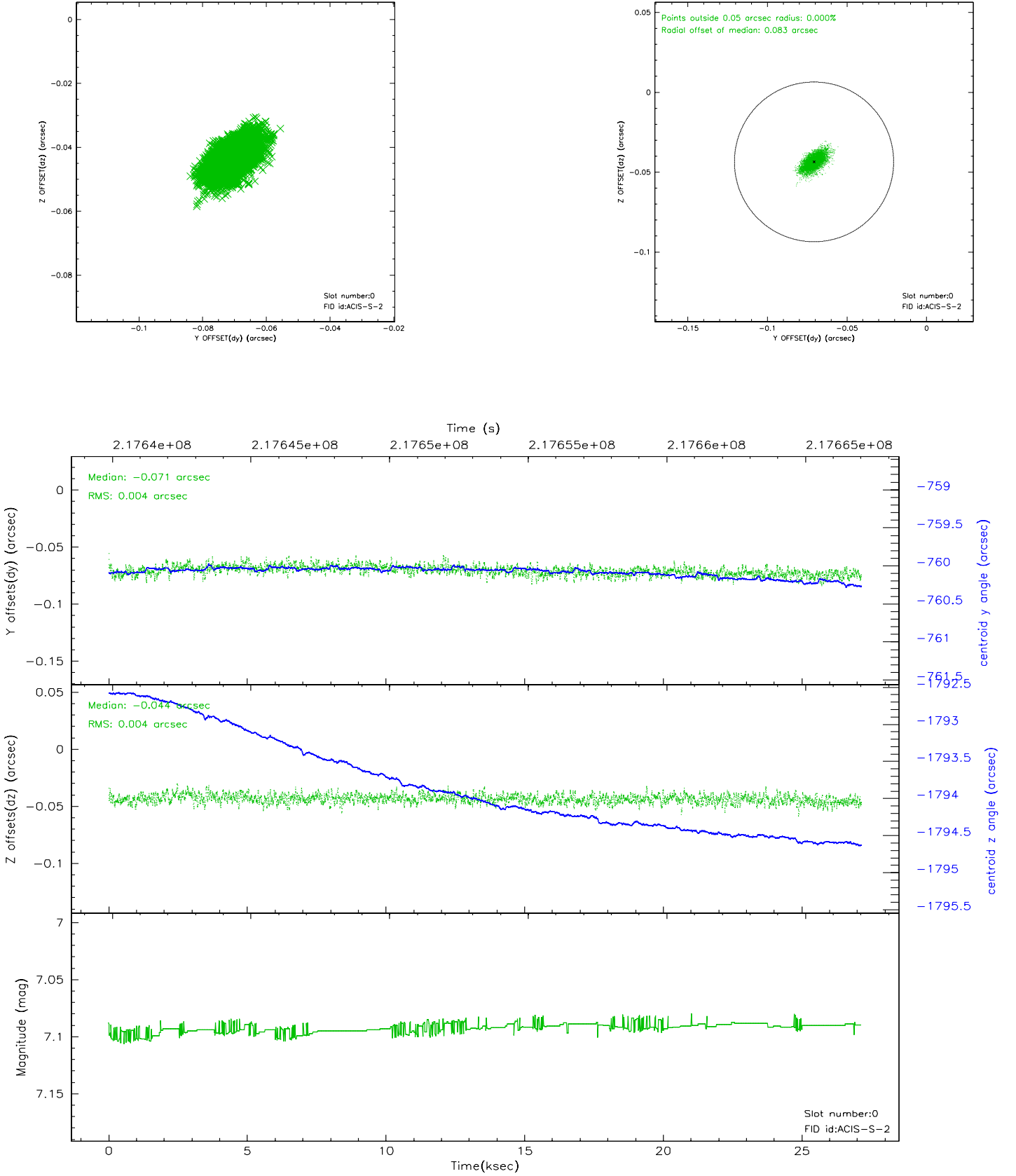


2.4.5 Slot 7

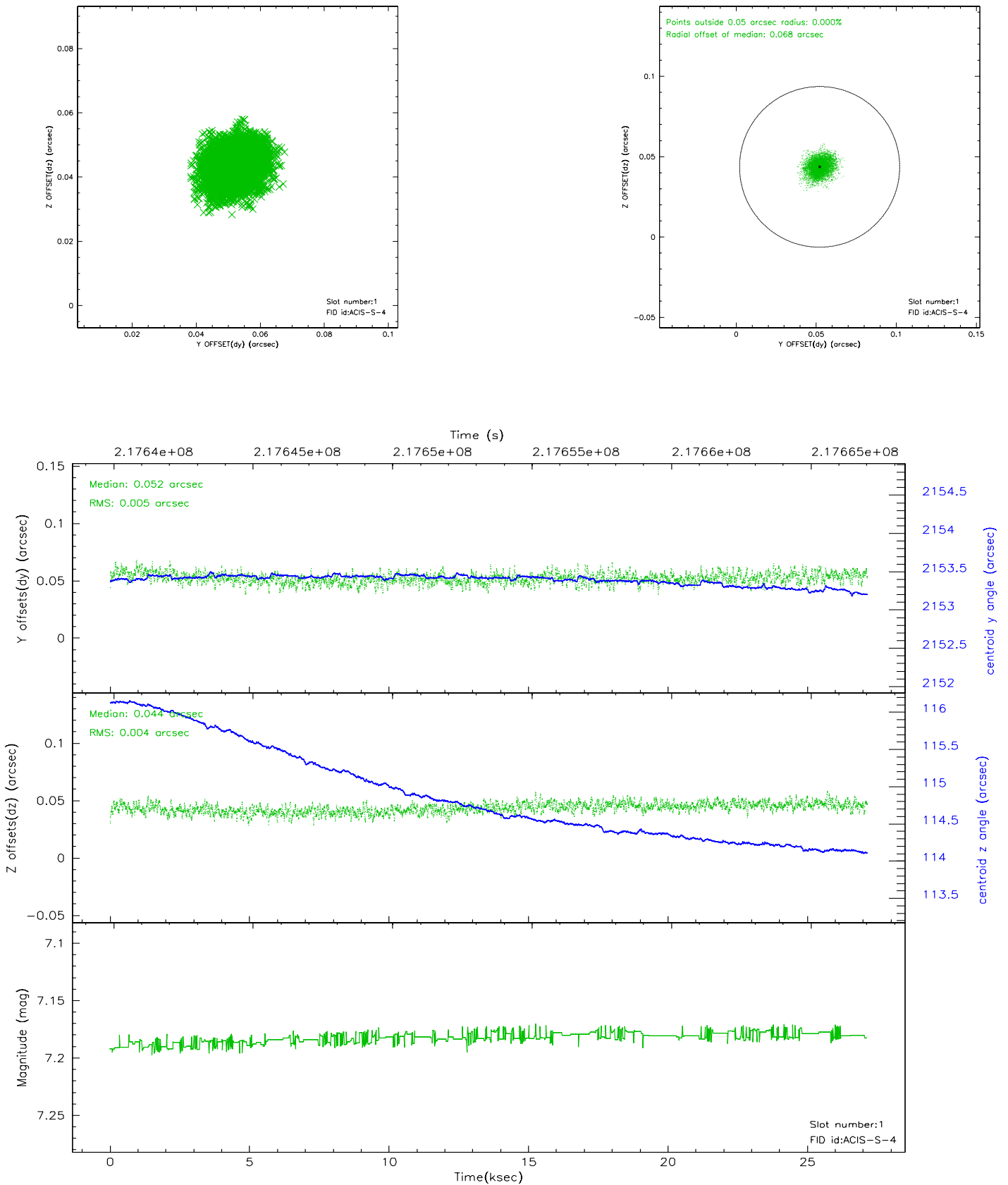


2.5 FID Slots

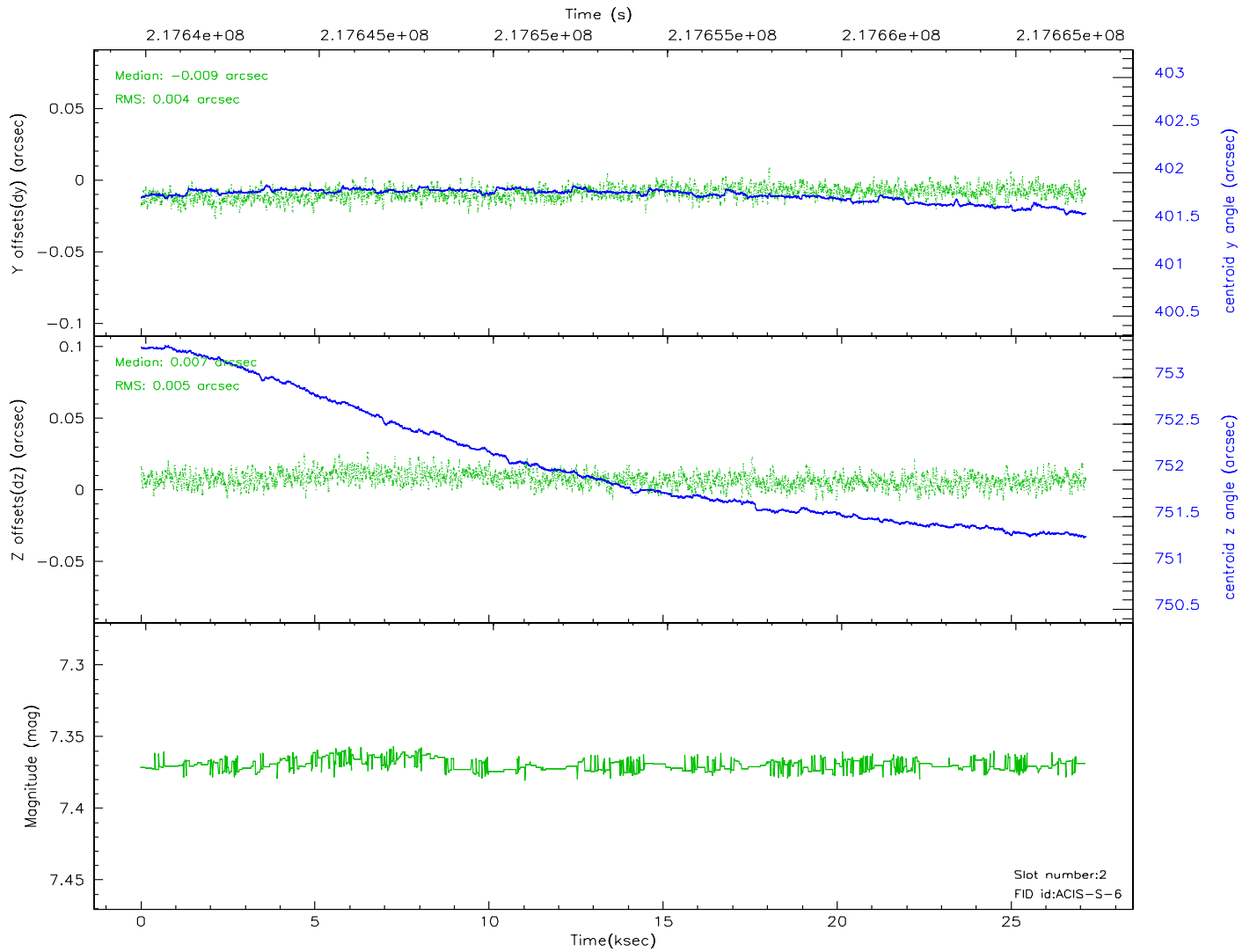
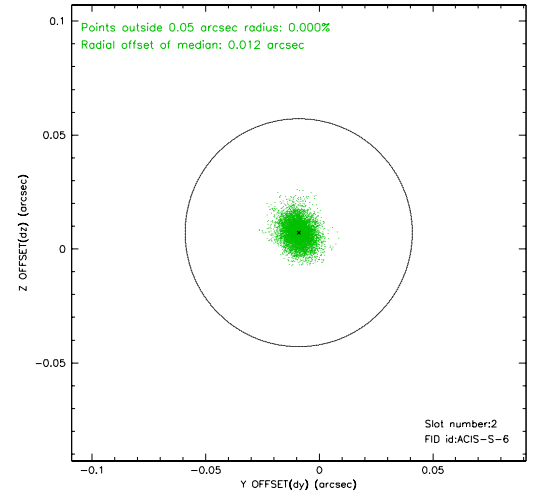
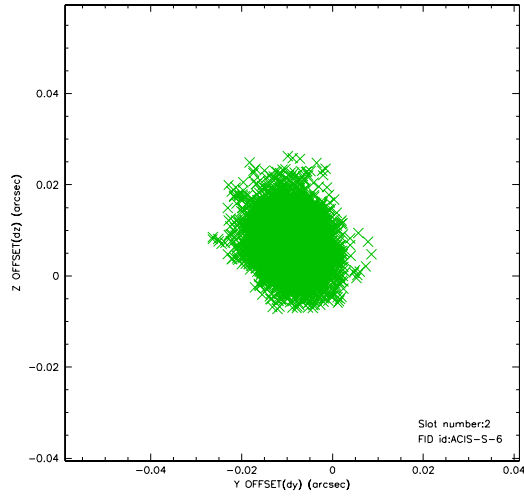
2.5.1 Slot 0



2.5.2 Slot 1

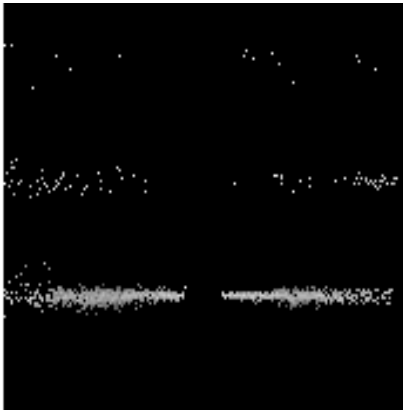


2.5.3 Slot 2

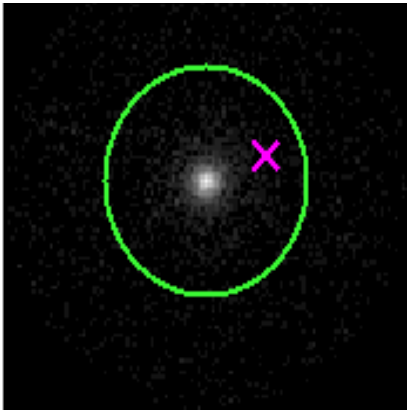


3 Gratings

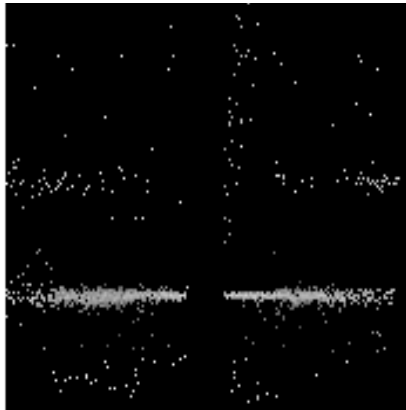
3.1 HEG Arm



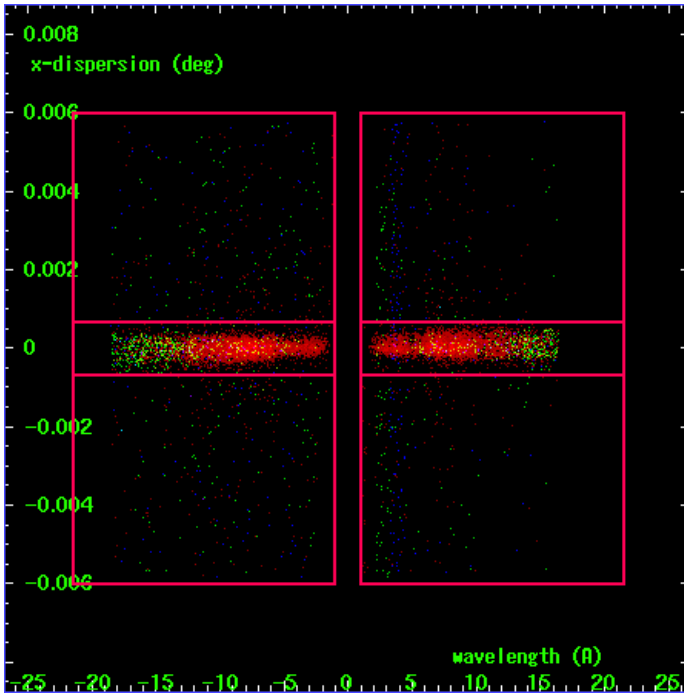
HEG Order Sort 123



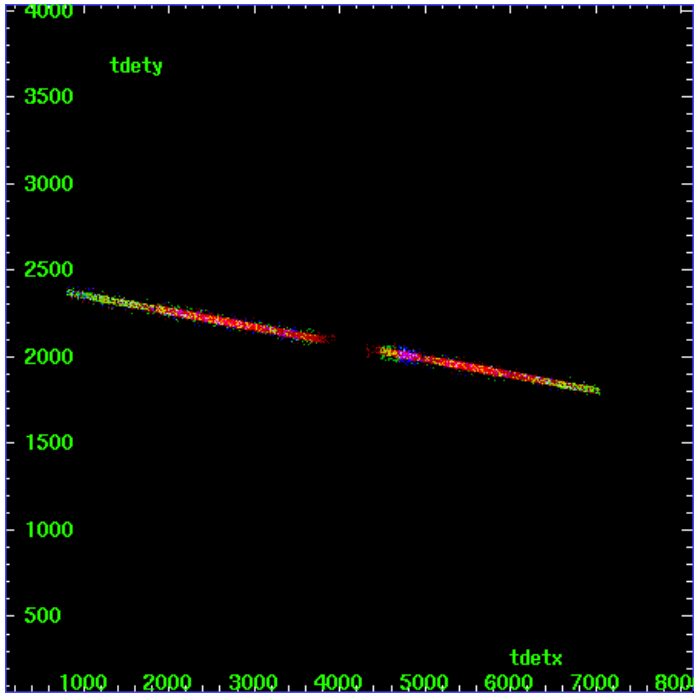
HEG Zero Order



HEG Order Sort ALL

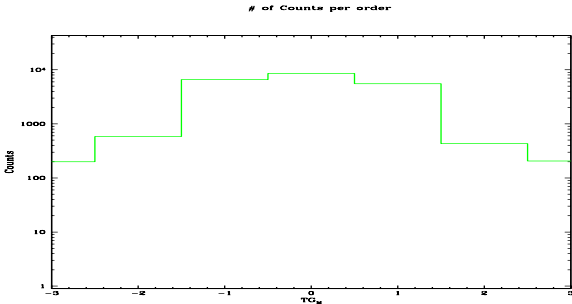


Spot Image HEG

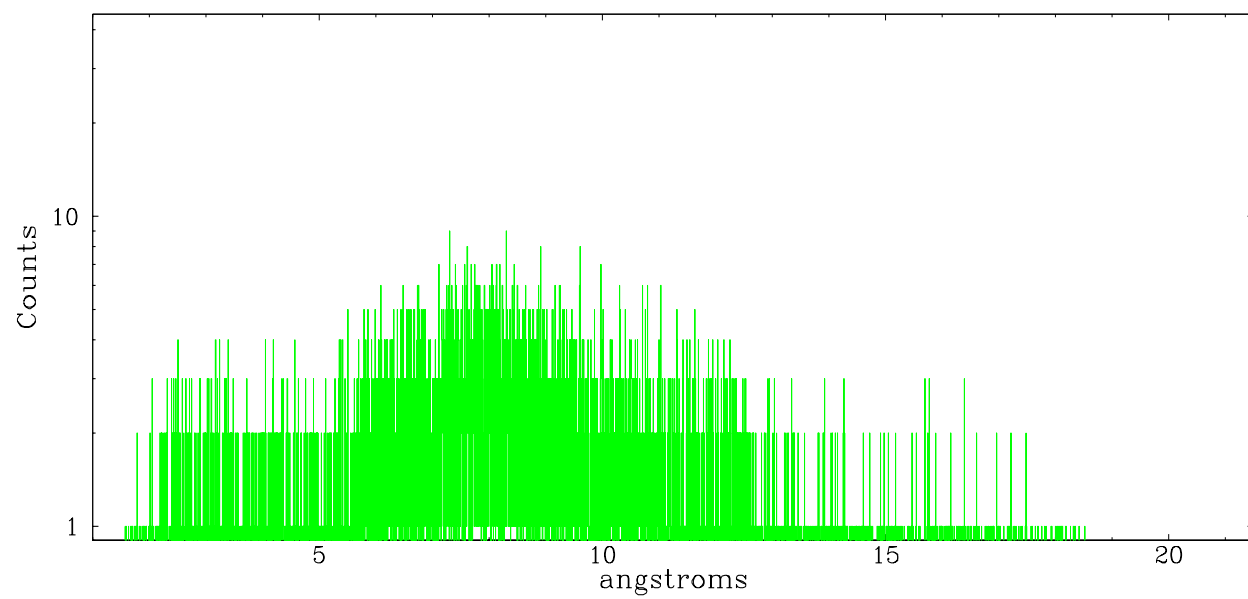


Full Detector HEG

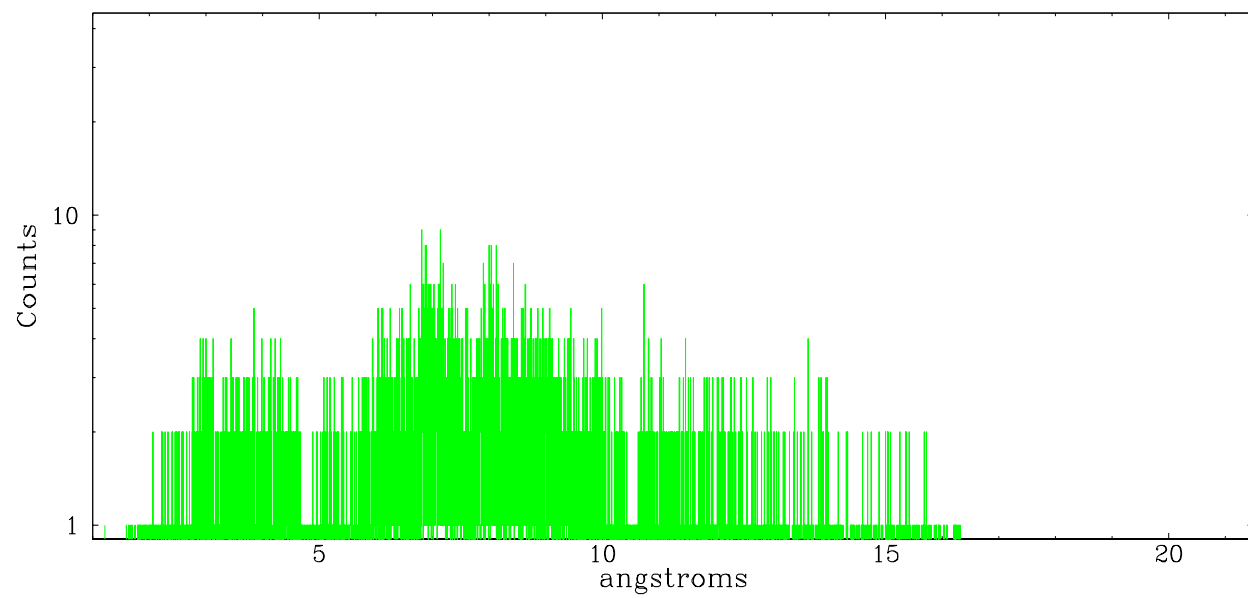
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	199	582	6572	8548	5528	430	206



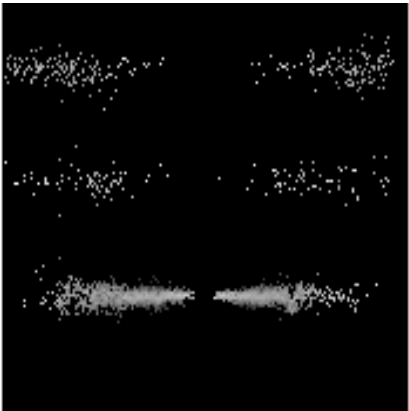
neg order -1



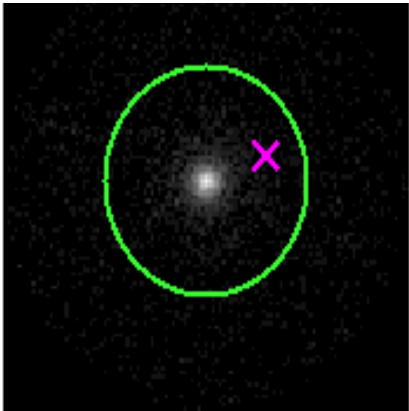
neg order +1



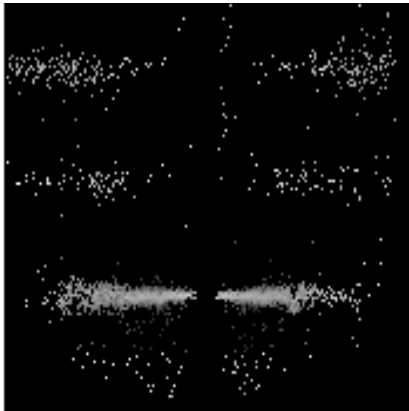
3.2 MEG Arm



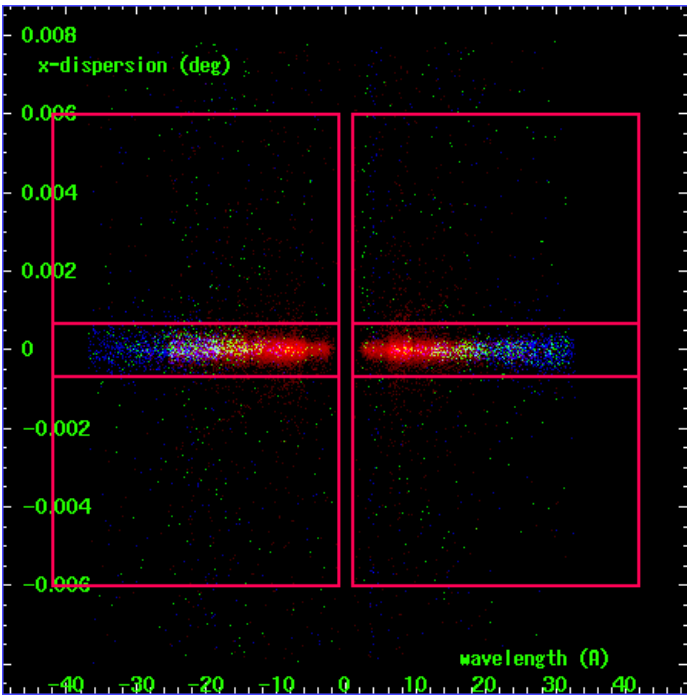
MEG Order Sort 123



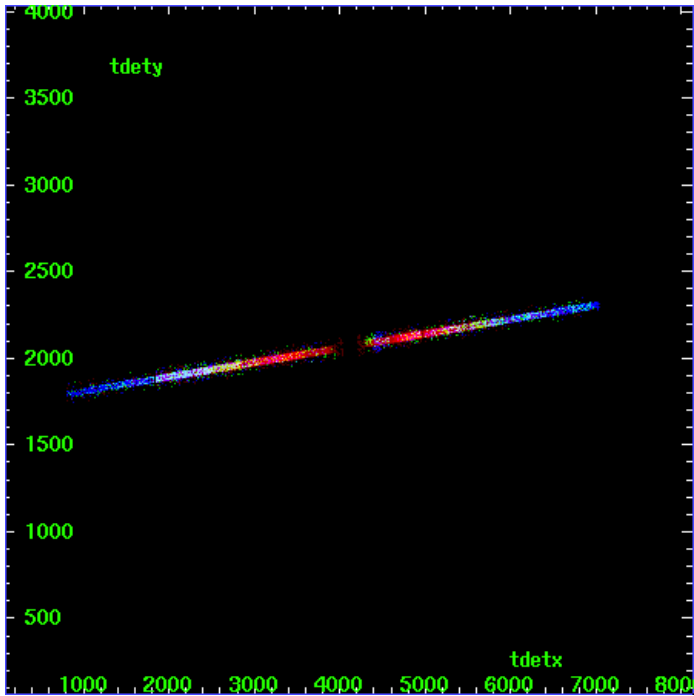
MEG Zero Order



MEG Order Sort ALL

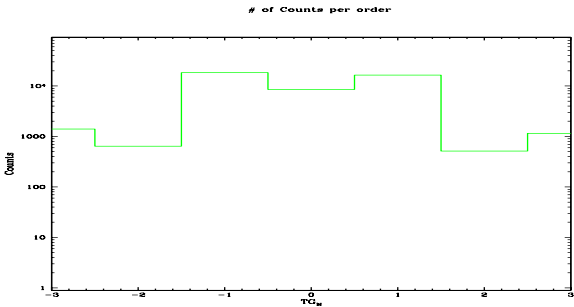


Spot Image MEG

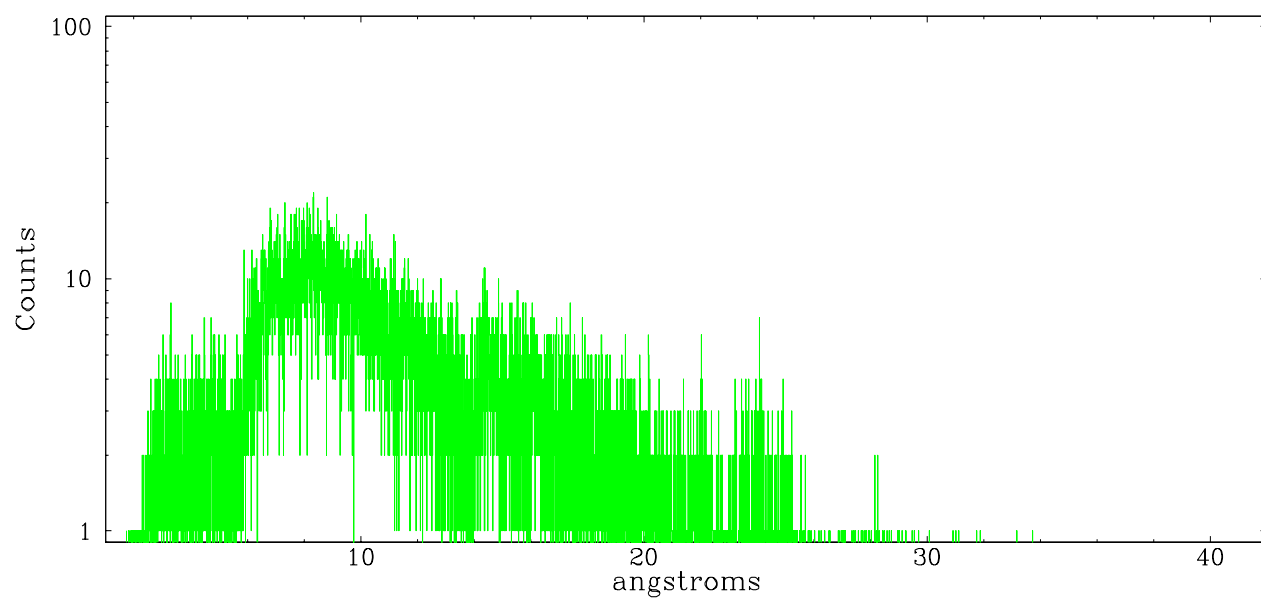


Full Detector MEG

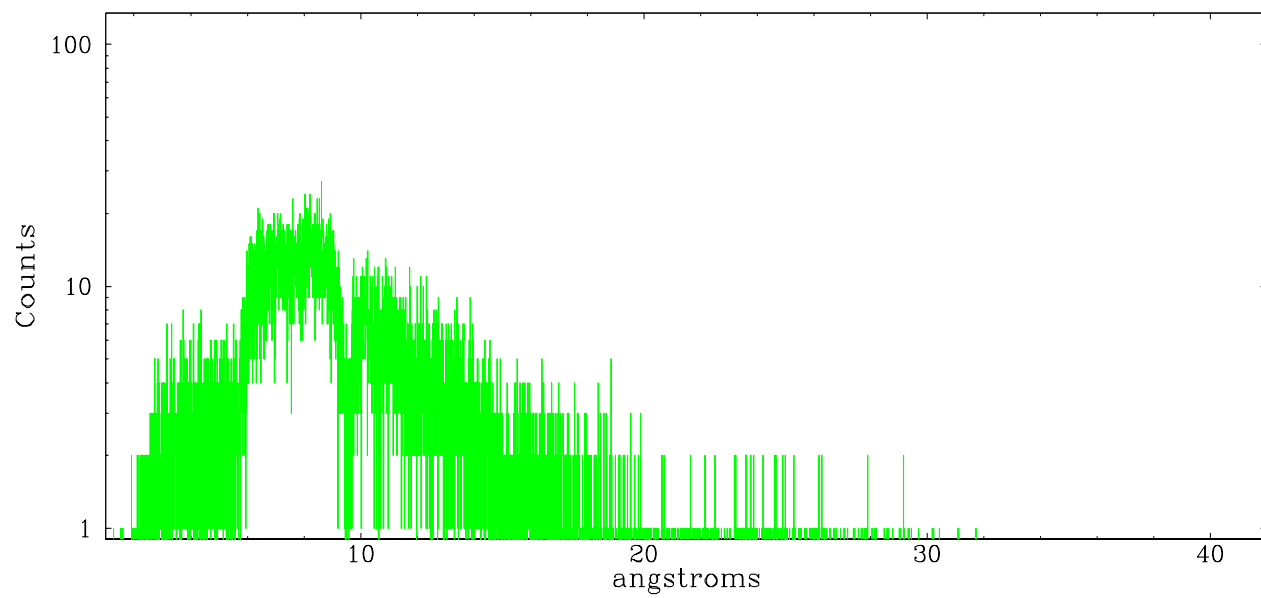
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1407	639	18411	8548	16389	516	1156



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.145

A.2 Comments