

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4762 - L2 Version 001
Chandra X-Ray Center

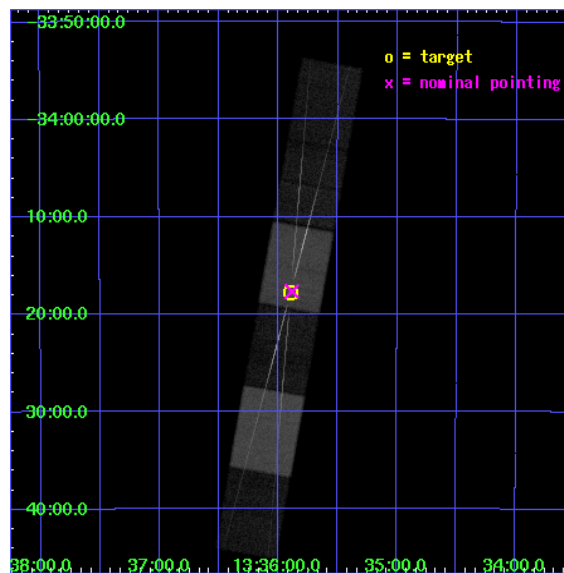
L2 Processing Date : May 17 2006

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1 Front

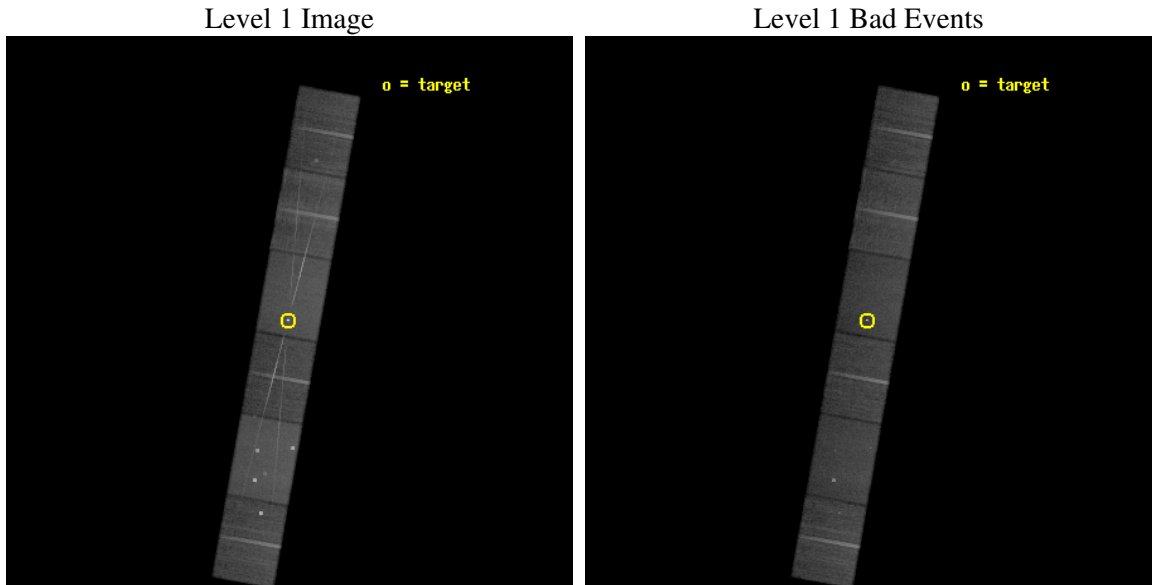
seq_num	700845
obs_id	4762
title	DISSECTING THE ENVIRONMENT OF MCG--6-30-15 WITH THE HETGS
observer	Prof. Claude Canizares
object	MCG--6-30-15
dtcycle	0
cycle	P
ra_targ	203.97375
dec_targ	-34.295833
ra_nom	203.97144915394
dec_nom	-34.294658562502
roll_nom	280.1553329209
revision	3
ontime	38165.0
livetime	37548.602147152
ontime4	38165.0
ontime5	38165.0
ontime6	38165.0
ontime7	38165.0
ontime8	38165.0
ontime9	38165.0
l2events	391029



2 OBI

2.1 OBI

2.1.1 Images

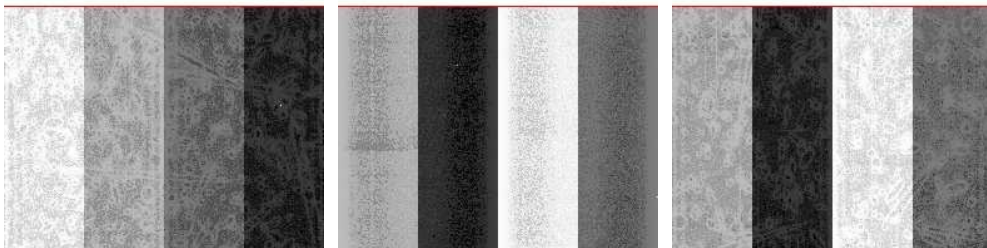


2.1.2 Bias

Chip 4

Chip 5

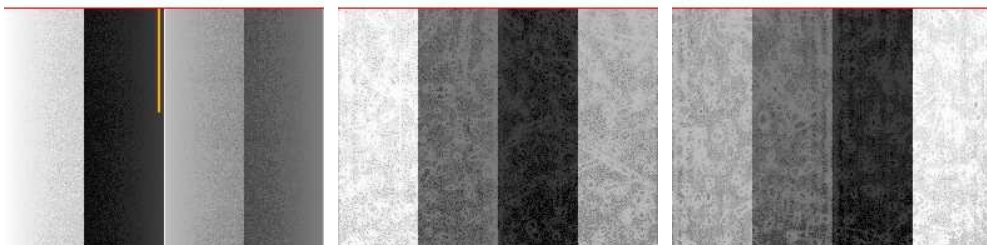
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-17T16:25:38
revision	3

sched_exp_time	38000.000000
ontime	39810.090227962
ontime4	39810.090227962
ontime5	39810.090227962
ontime6	39810.090227962
ontime7	39810.090227962
ontime8	39810.090227962
ontime9	39810.090227962
l1events	1691538

2.1.4 Events

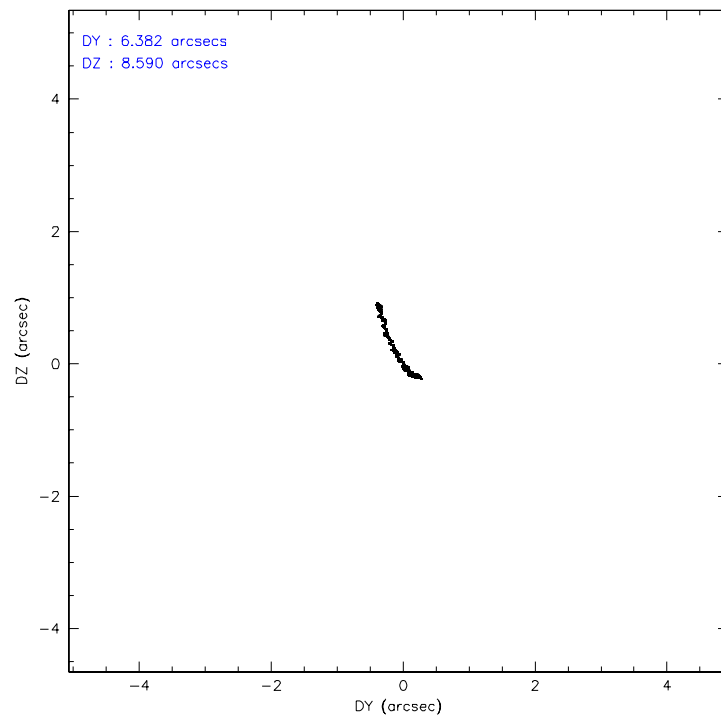
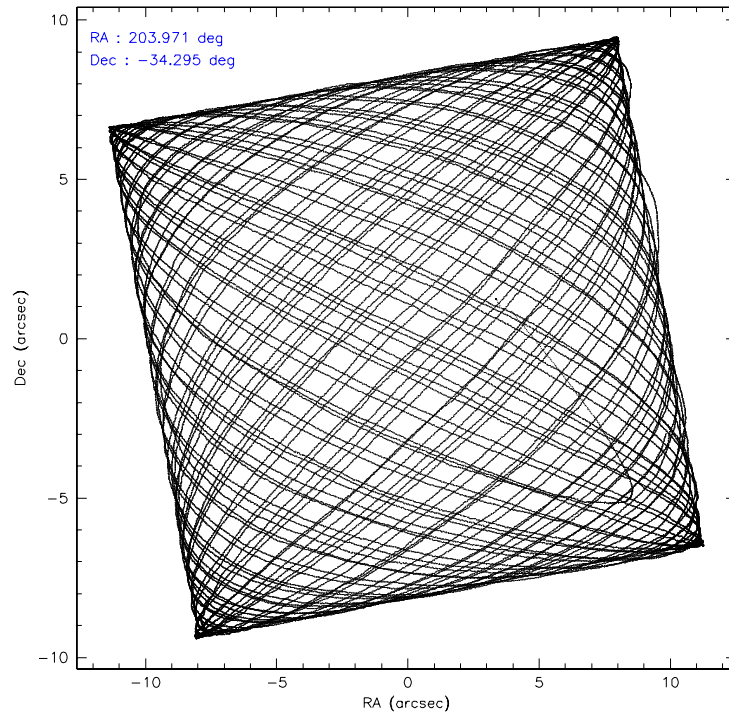
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	256675	349156	241457	329971	291815	222464
rejected events	218909	190653	197469	191182	226163	194254
rejected %	85%	54%	81%	57%	77%	87%

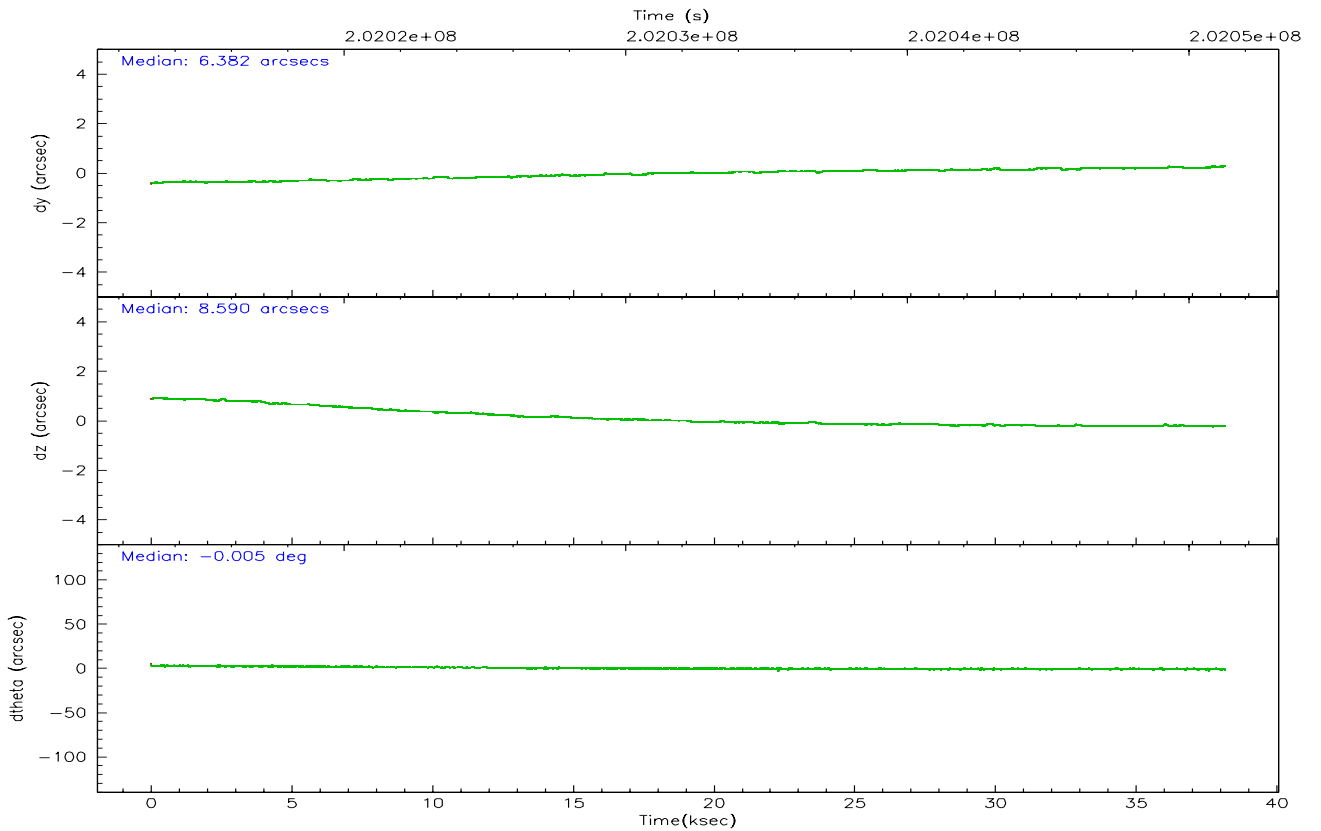
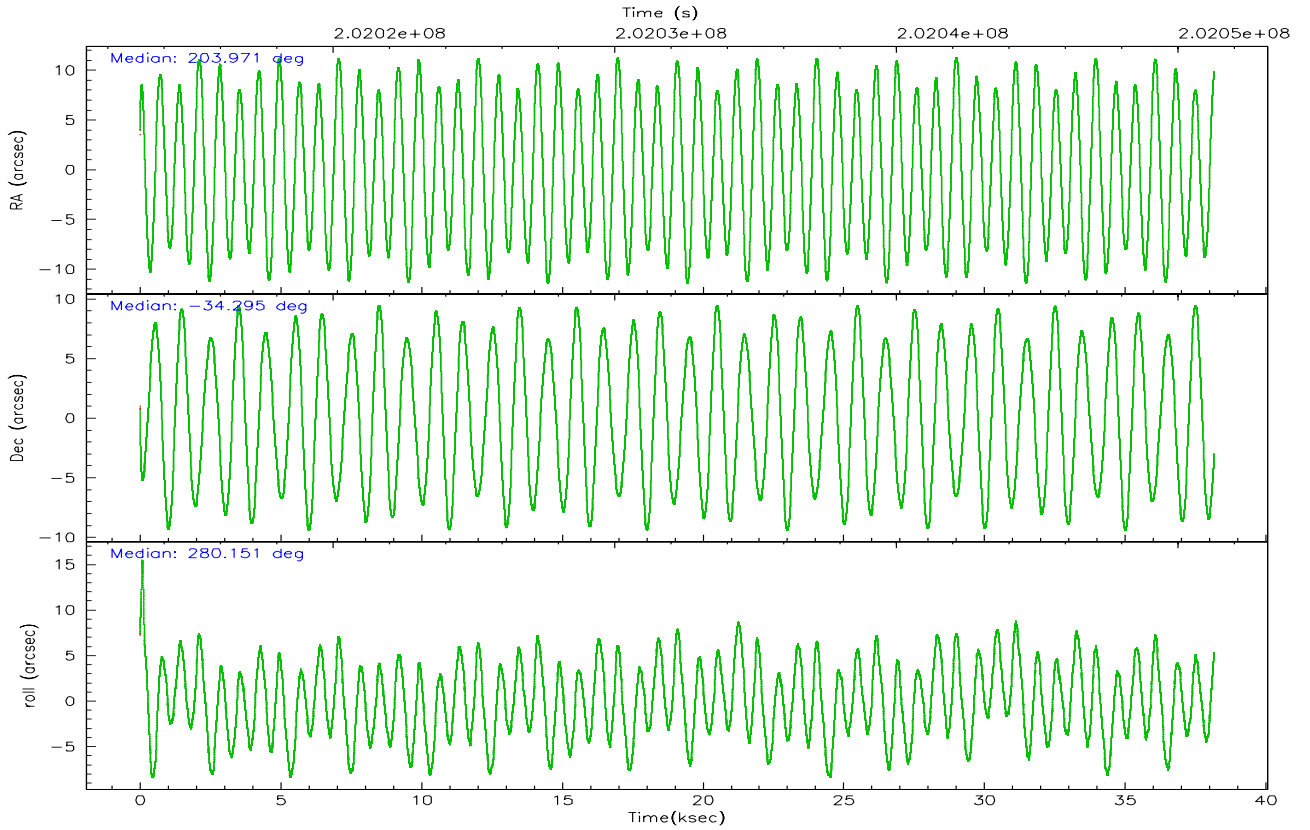
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	23174	21868	25162	12098	25896	13114
	9%	6%	10%	3%	8%	5%
grade 1 events	219	244	159	409	169	139
	0%	0%	0%	0%	0%	0%
grade 2 events	5875	51970	7485	35107	13429	5378
	2%	14%	3%	10%	4%	2%
grade 3 events	2912	4266	3394	9429	6834	2917
	1%	1%	1%	2%	2%	1%
grade 4 events	2928	3994	3314	9249	6440	2779
	1%	1%	1%	2%	2%	1%
grade 5 events	9467	18193	9872	22864	12876	10400
	3%	5%	4%	6%	4%	4%
grade 6 events	4429	82880	5813	77955	15627	5200
	1%	23%	2%	23%	5%	2%
grade 7 events	207671	165741	186258	162860	210544	182537
	80%	47%	77%	49%	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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	203.949857	203.9714491539395	Subarray start row	1	1
Pointing Dec	-34.274099	-34.29465856250152	Subarray row count	774	774
Pointing Roll	279.986545	280.1553329209044	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	2.5
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	202013297.184000	202012177.80554			
Observation start date	2004-05-27T02:47:13	2004-05-27T02:29:37			
Observation end time	202051297.184000	202052624.81983			
Observation end date	2004-05-27T13:20:33	2004-05-27T13:43:44			
Read mode	TIMED	TIMED			

2.3 Aspect



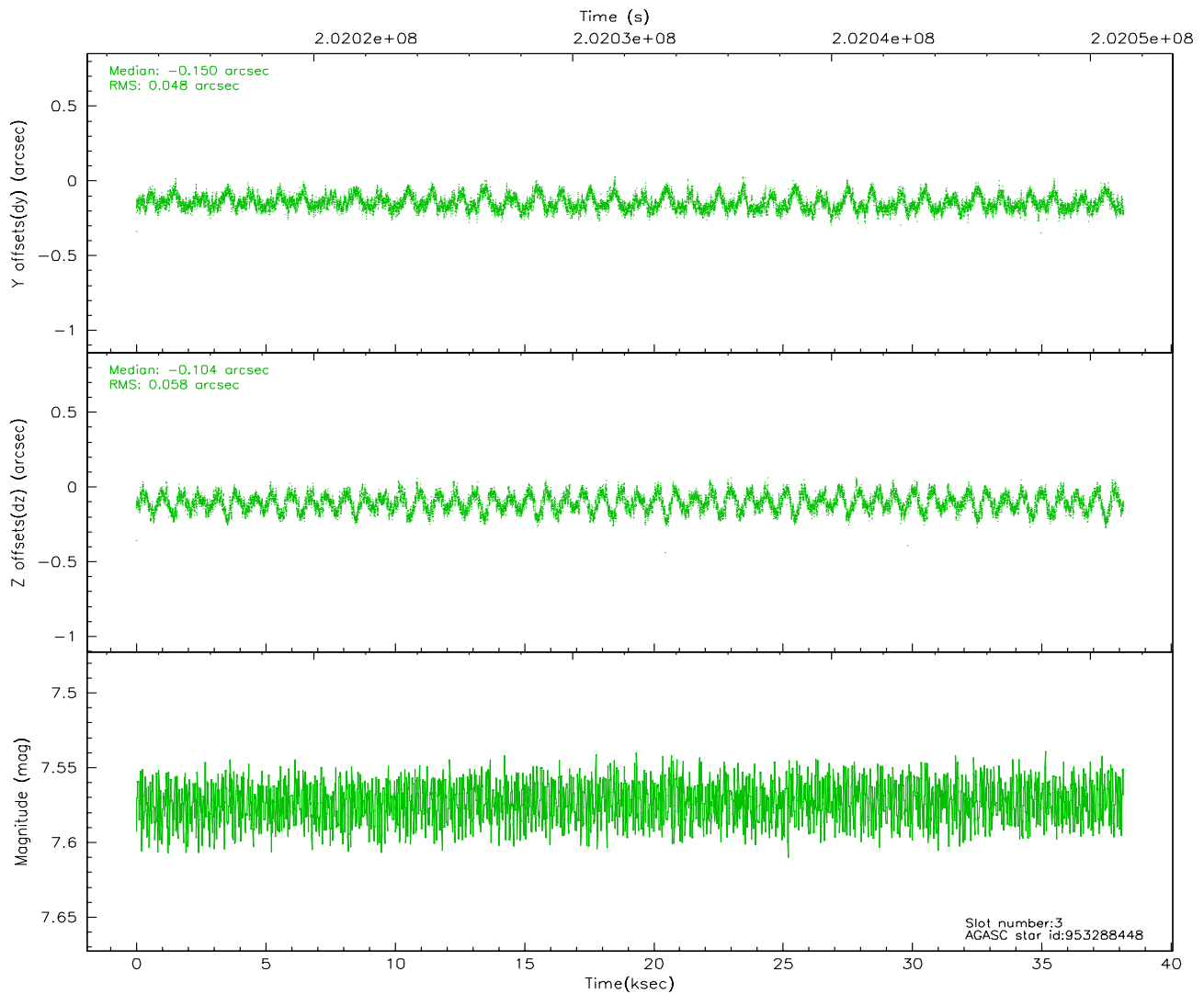
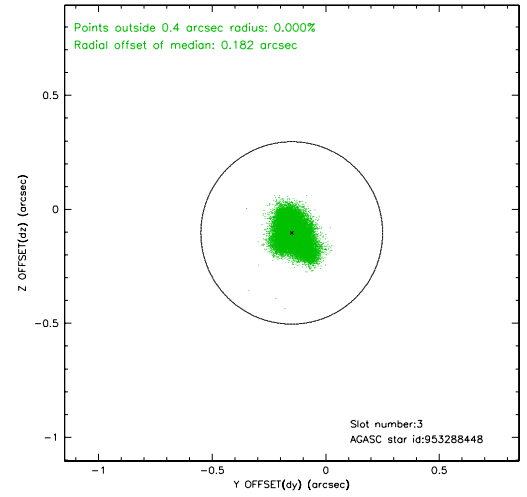
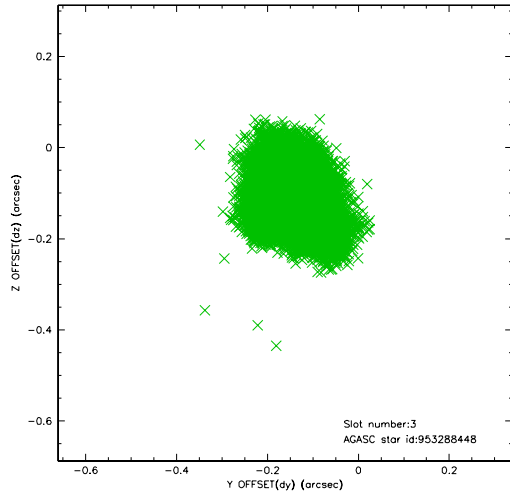


Slot Statistics

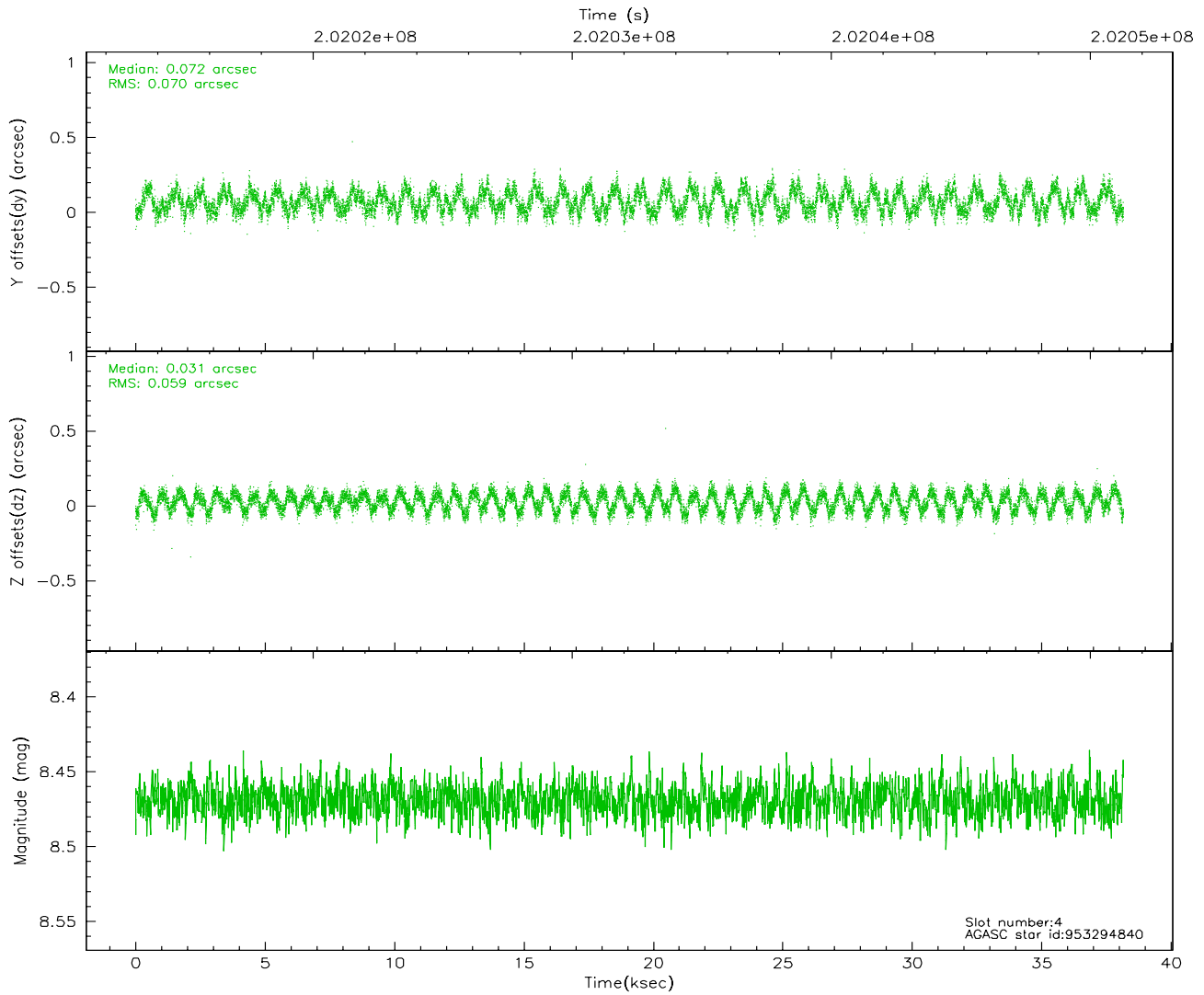
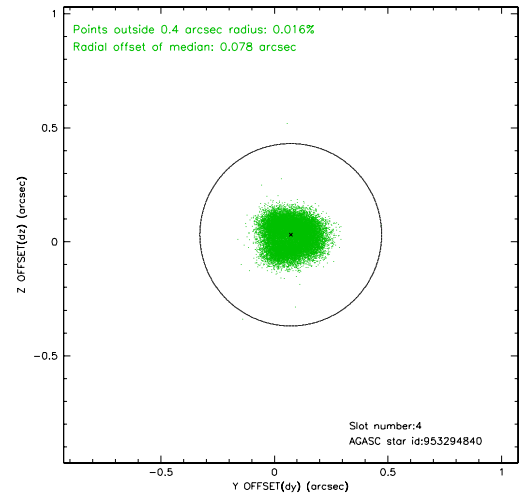
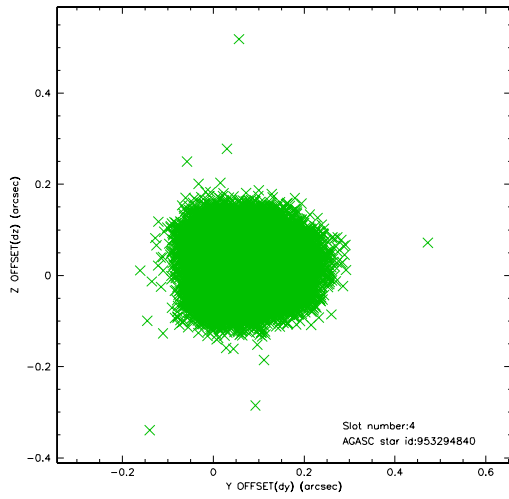
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	9310	-0.075	-0.026	0.010	0.020	0.000000	0.000000	-758.93	-1792.11
1	FID	ACIS-S-4	7.20	9310	0.071	0.043	0.009	0.018	0.000000	0.000000	2154.46	116.43
2	FID	ACIS-S-5	7.23	9310	-0.028	-0.009	0.008	0.016	0.000000	0.000000	-1811.71	110.04
3	GUIDE	953288448	7.57	18612	-0.150	-0.104	0.081	0.130	203.869544	-34.017546	-950.98	-76.09
4	GUIDE	953294840	8.47	18615	0.072	0.031	0.100	0.145	204.478170	-34.846425	2304.05	1179.42
5	GUIDE	953295296	7.43	18618	-0.049	-0.054	0.073	0.114	203.563852	-34.387568	205.97	-1200.63
6	GUIDE	953296432	8.99	18605	0.023	0.209	0.116	0.178	204.411860	-34.306423	356.14	1332.18
7	GUIDE	953297000	9.46	18605	0.117	-0.092	0.297	0.417	203.651481	-34.967131	2306.21	-1299.77

2.4 Star Slots

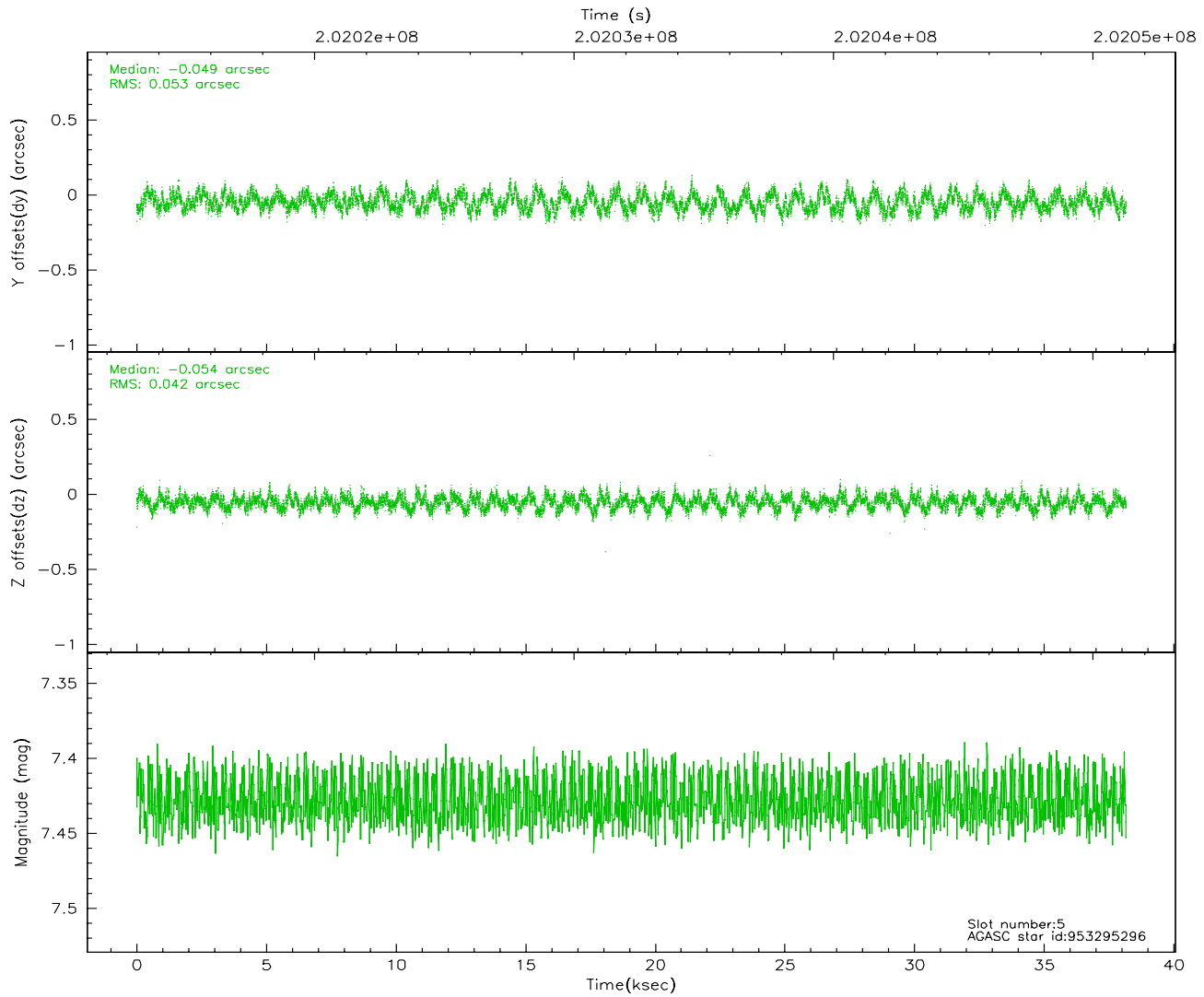
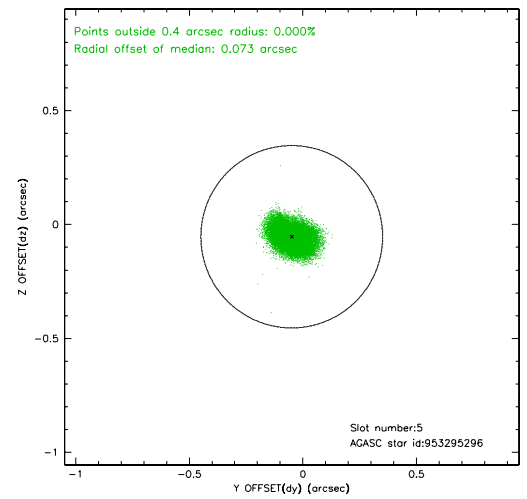
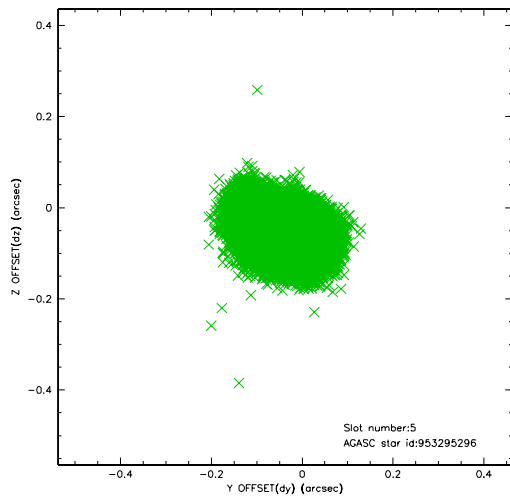
2.4.1 Slot 3



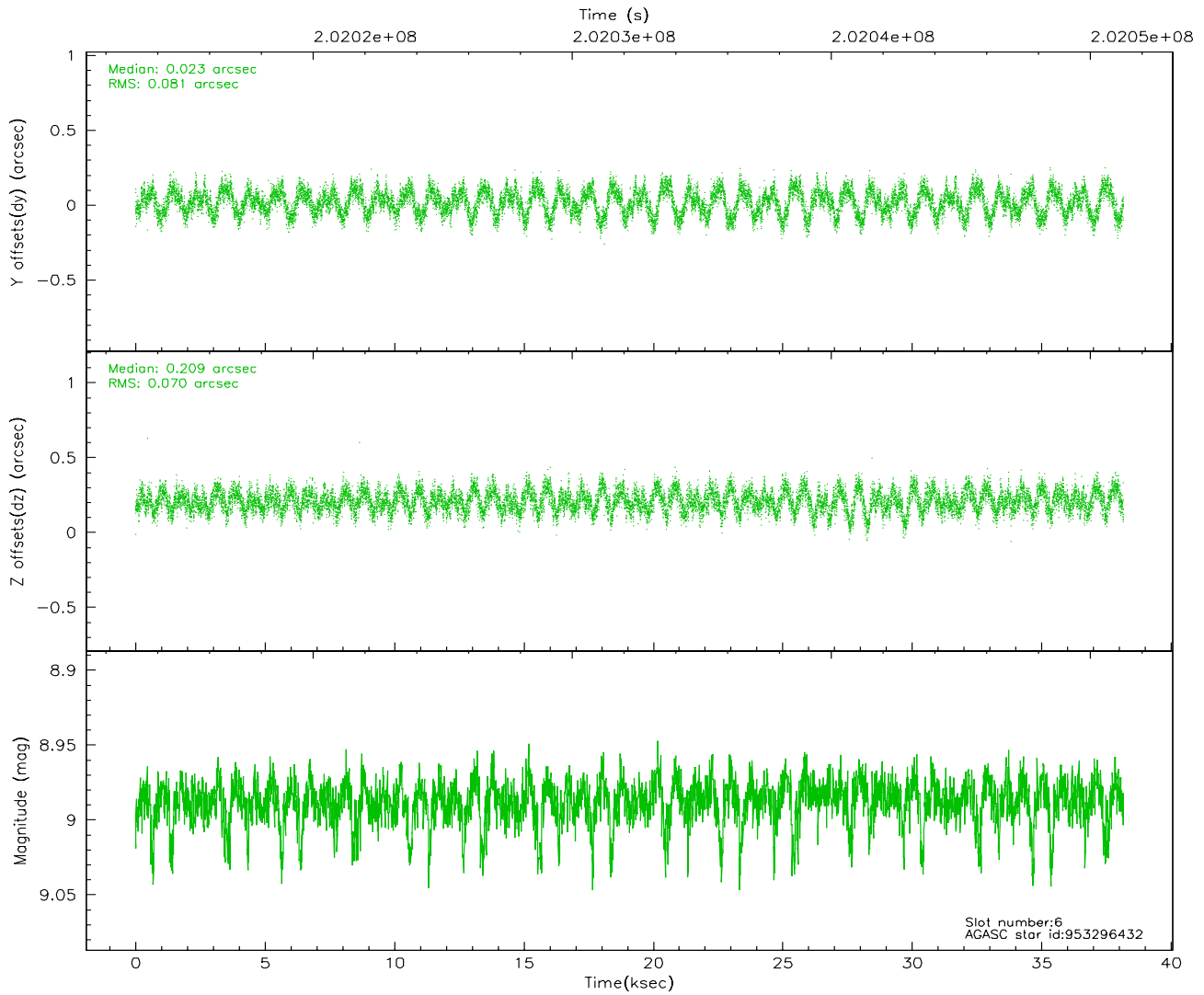
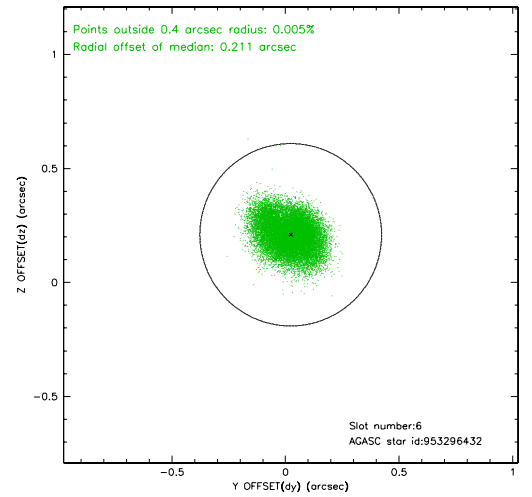
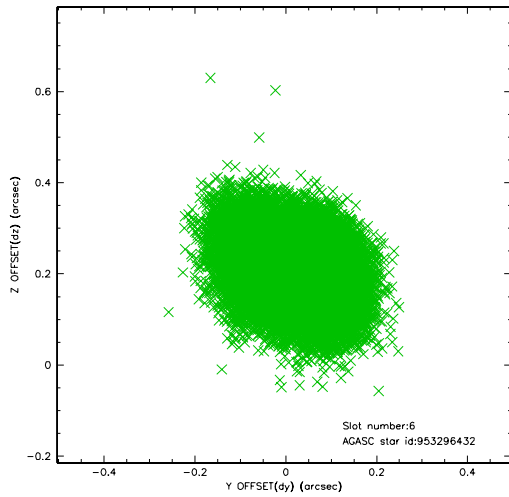
2.4.2 Slot 4



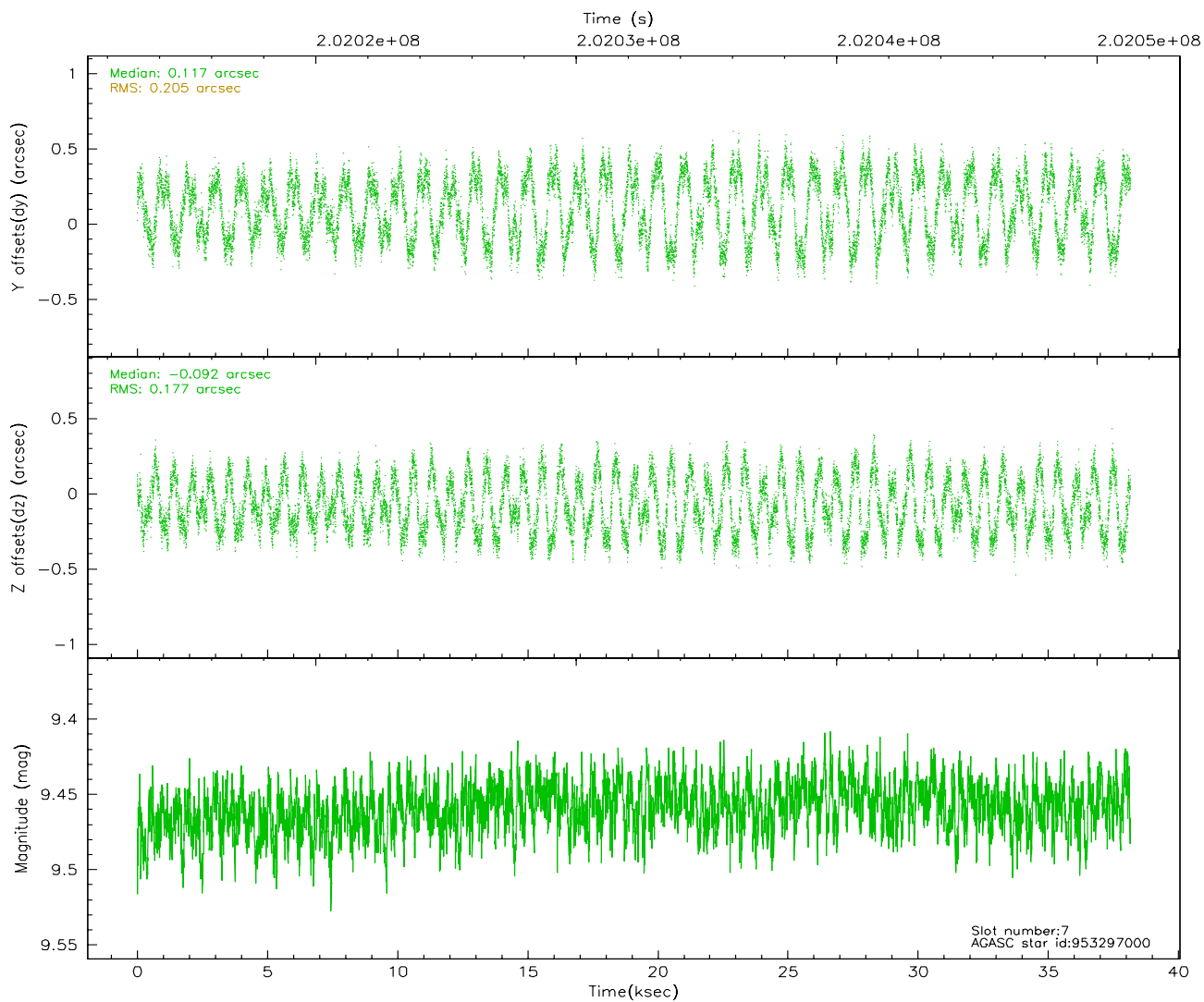
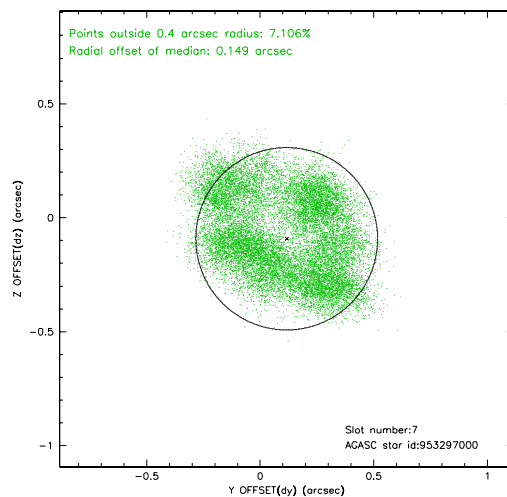
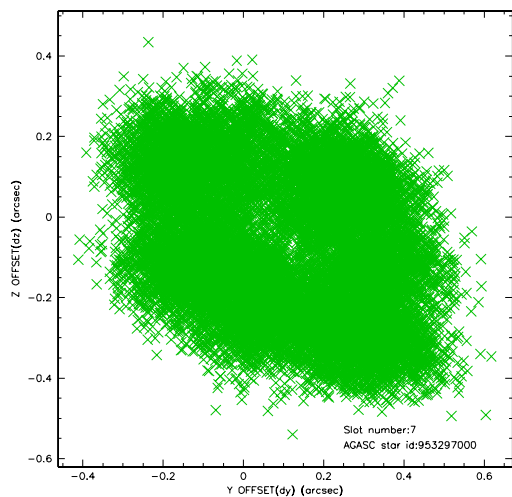
2.4.3 Slot 5



2.4.4 Slot 6

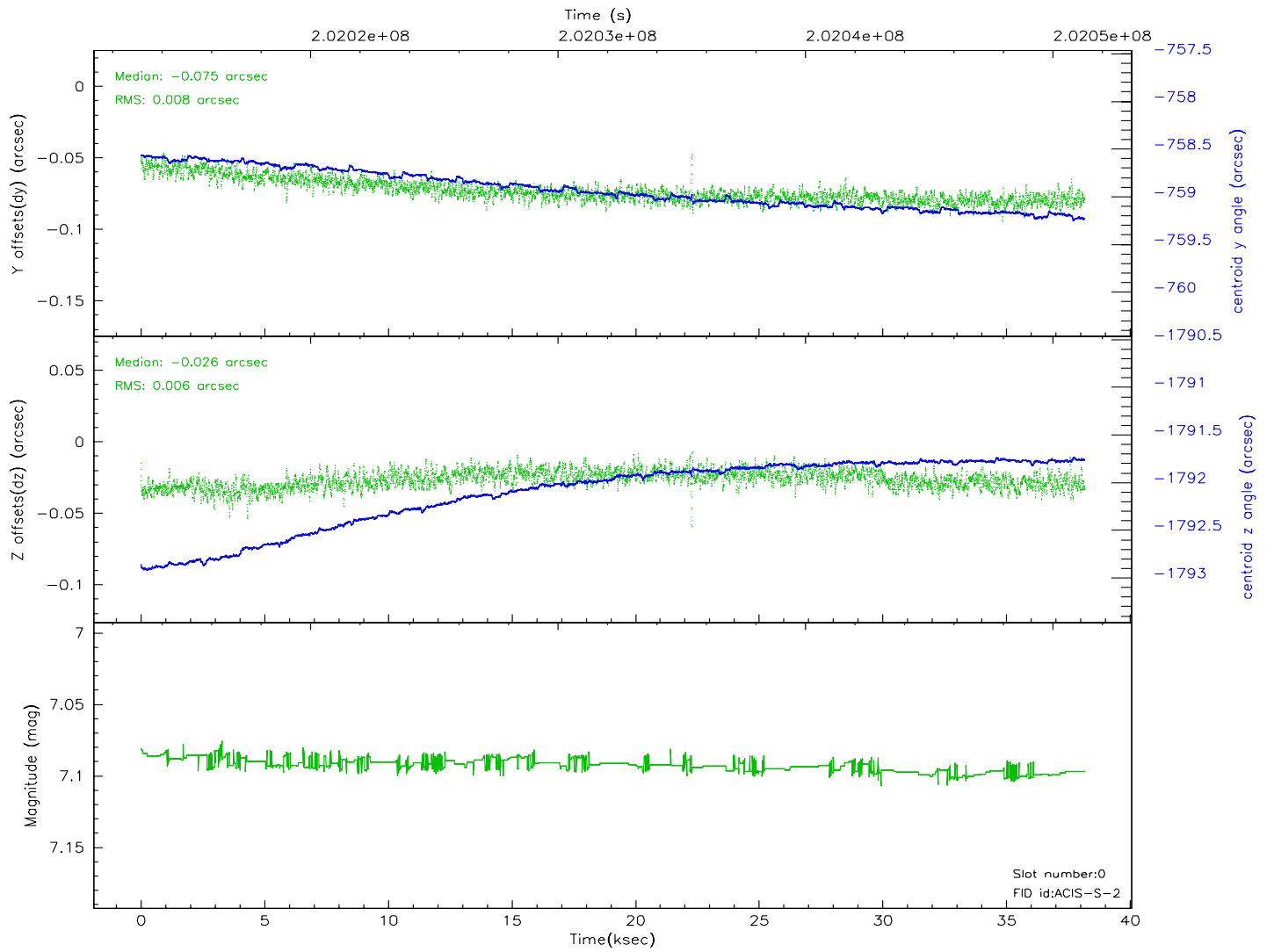
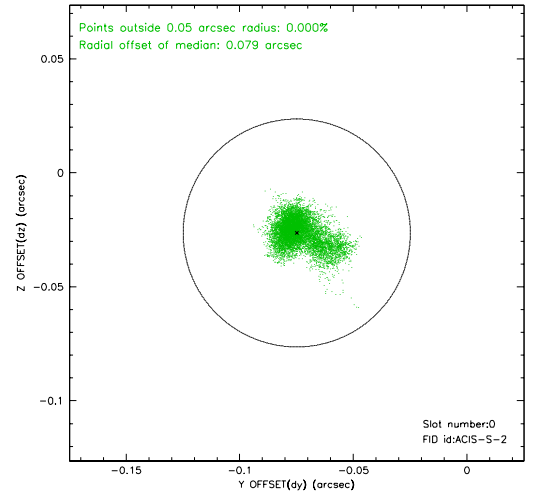
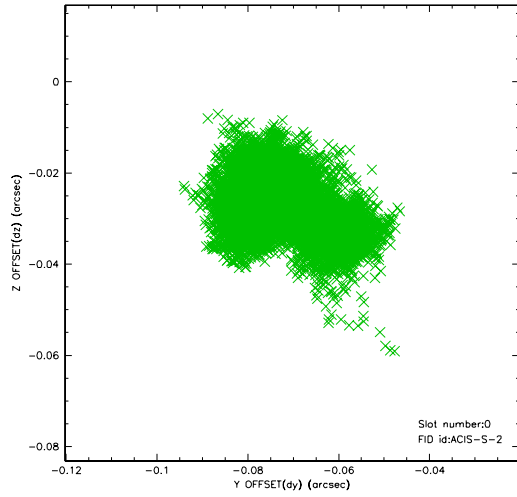


2.4.5 Slot 7

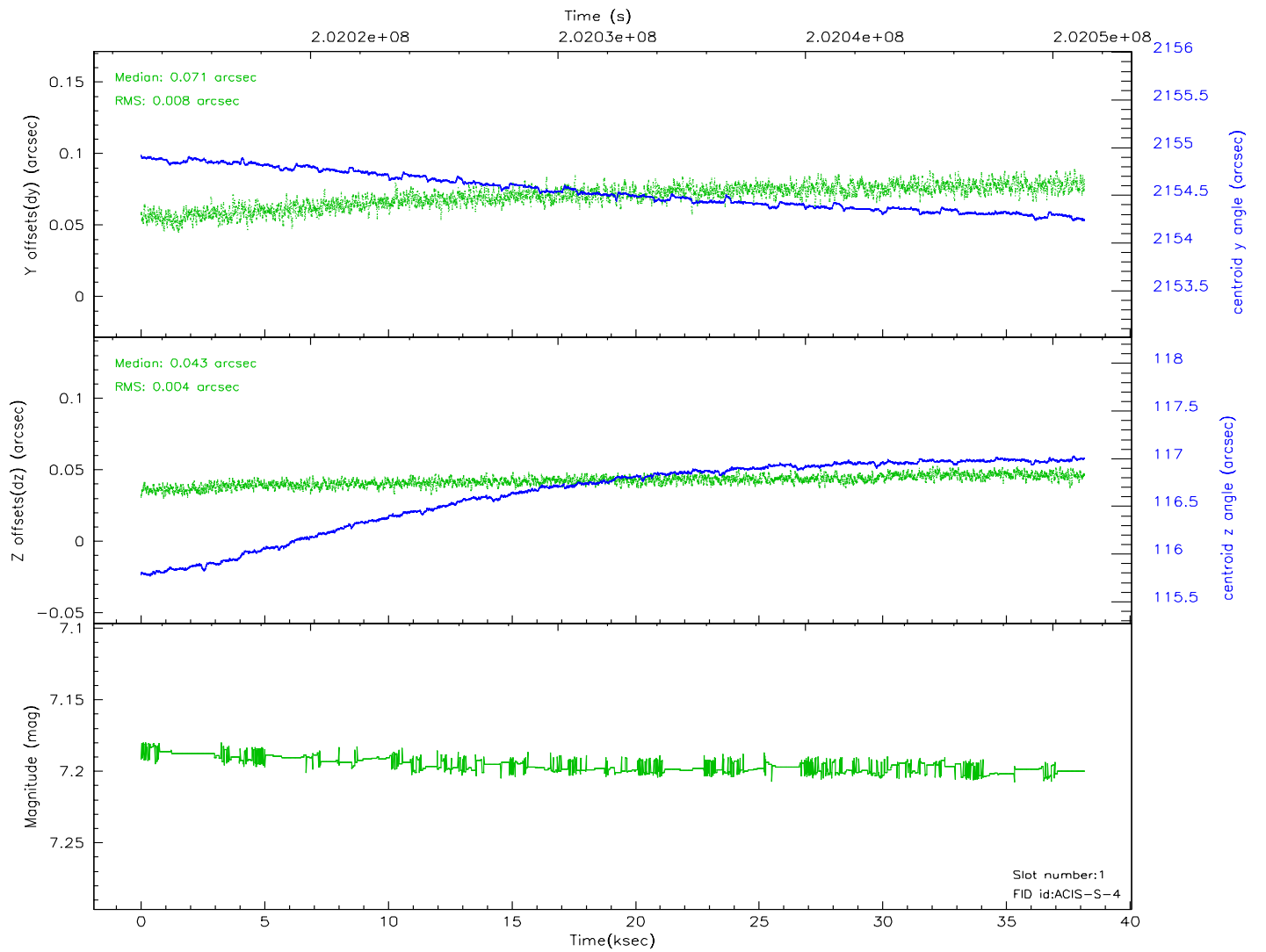
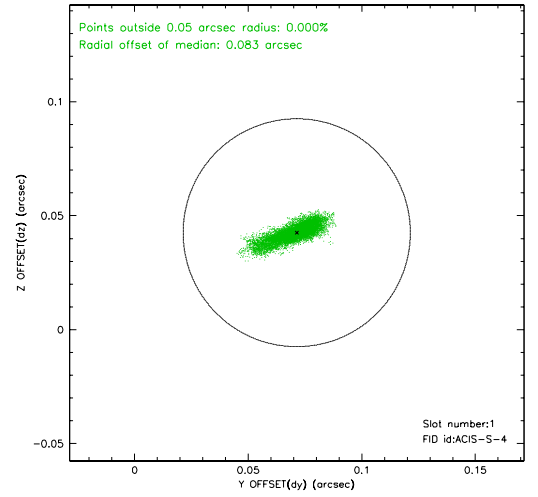
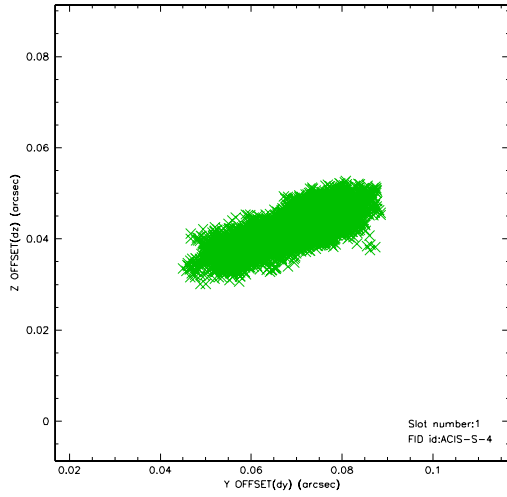


2.5 FID Slots

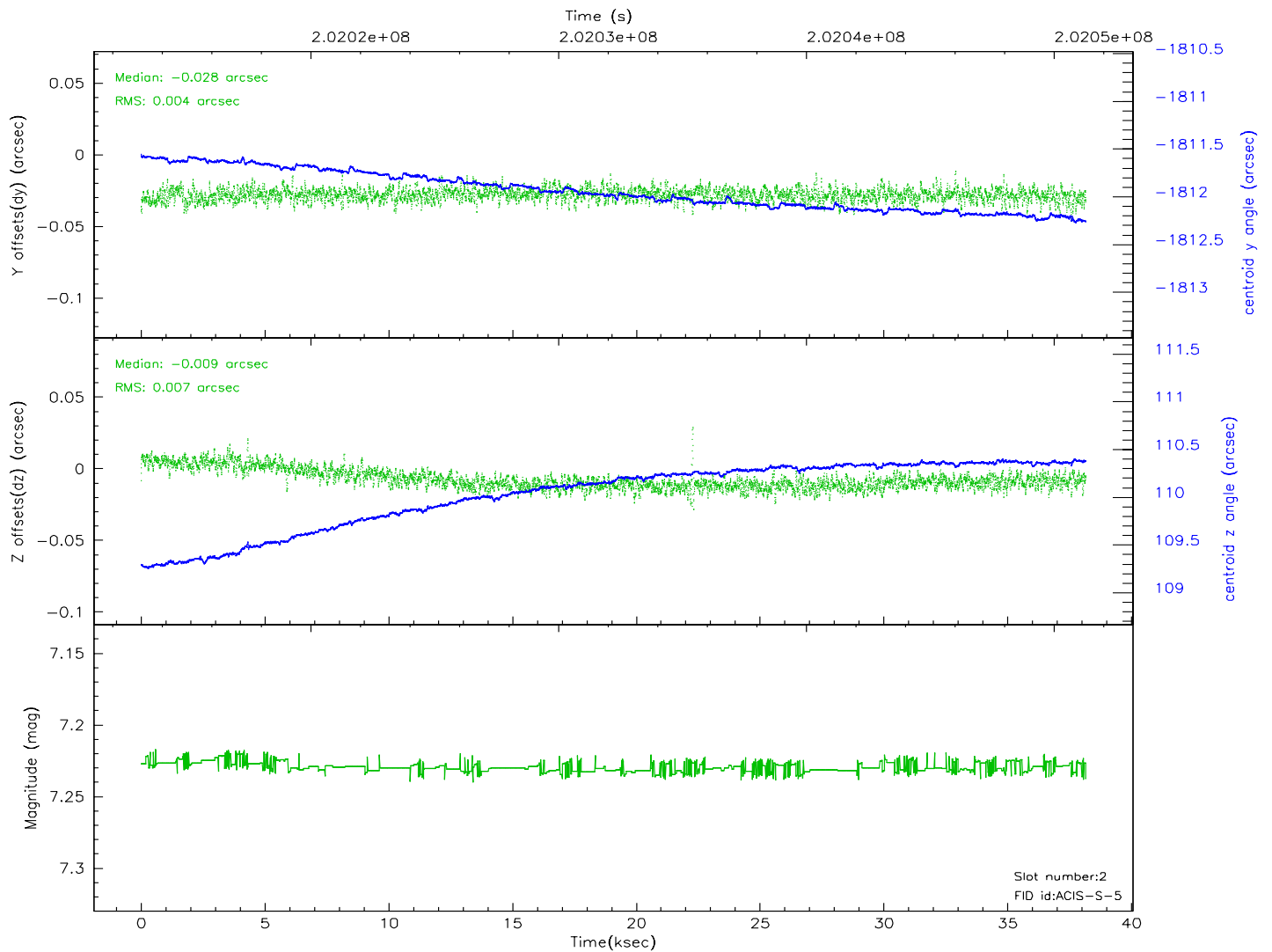
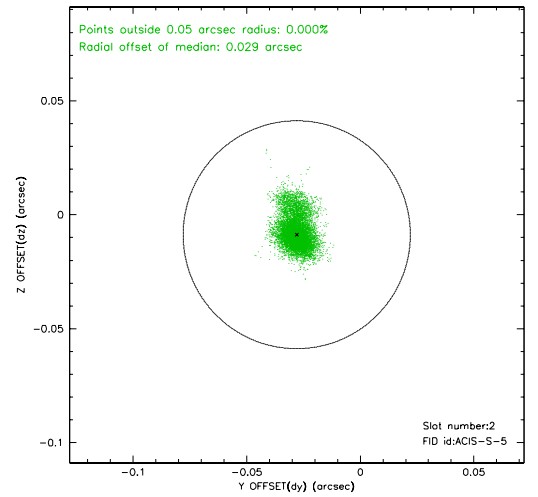
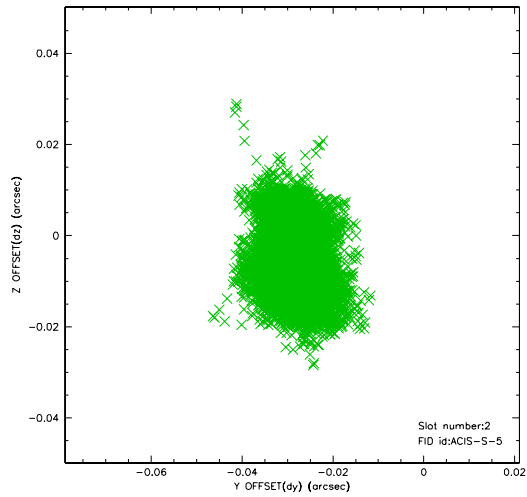
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

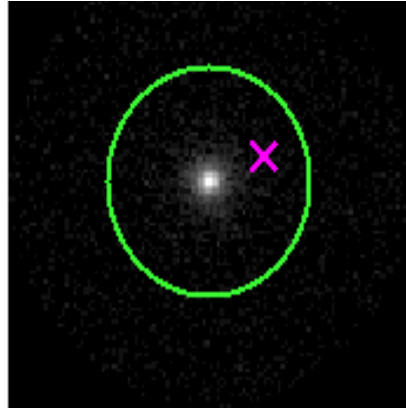


3 Gratings

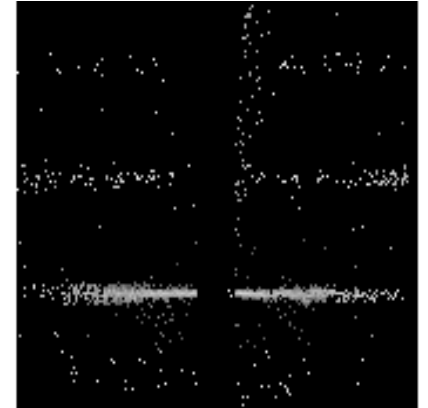
3.1 HEG Arm



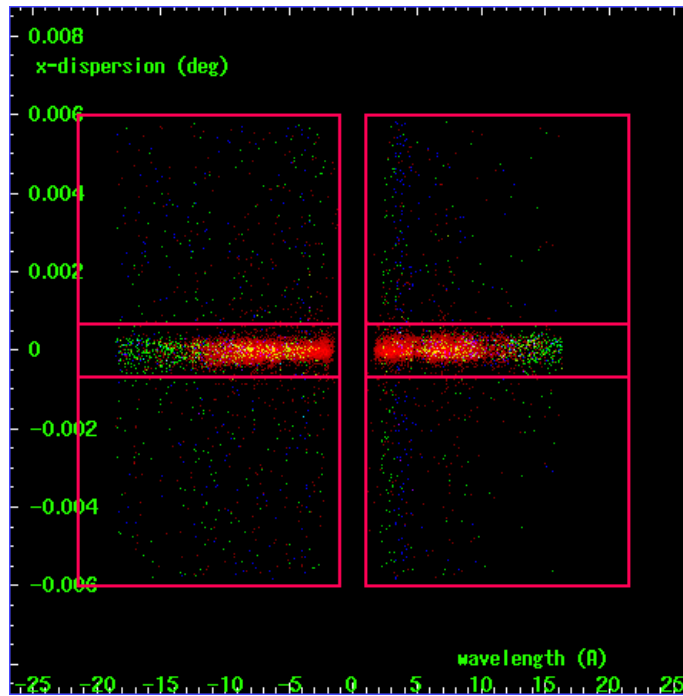
HEG Order Sort 123



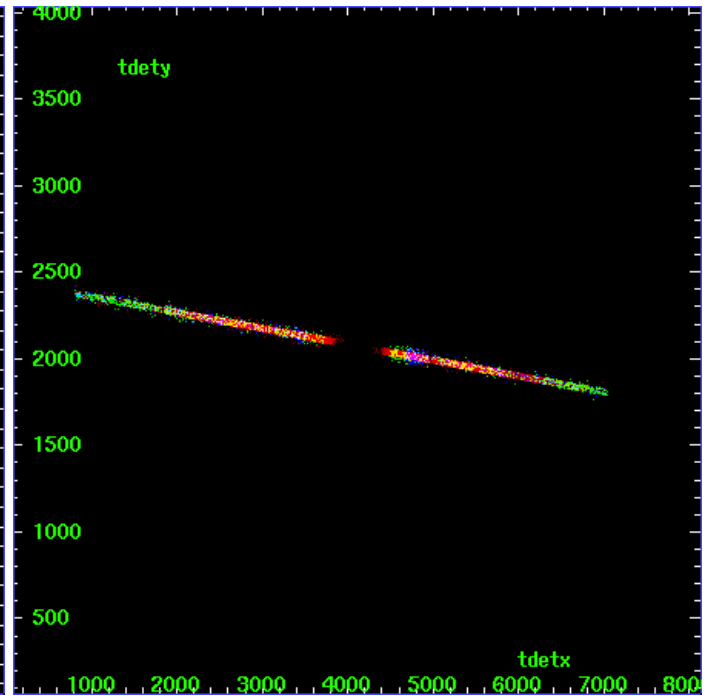
HEG Zero Order



HEG Order Sort ALL

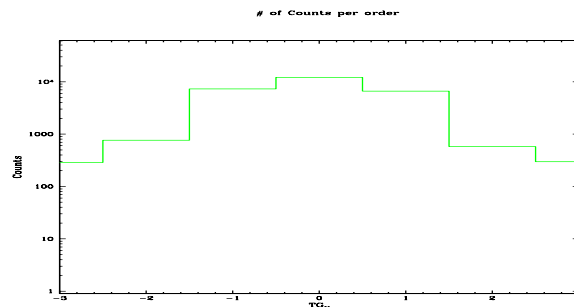


Spot Image HEG

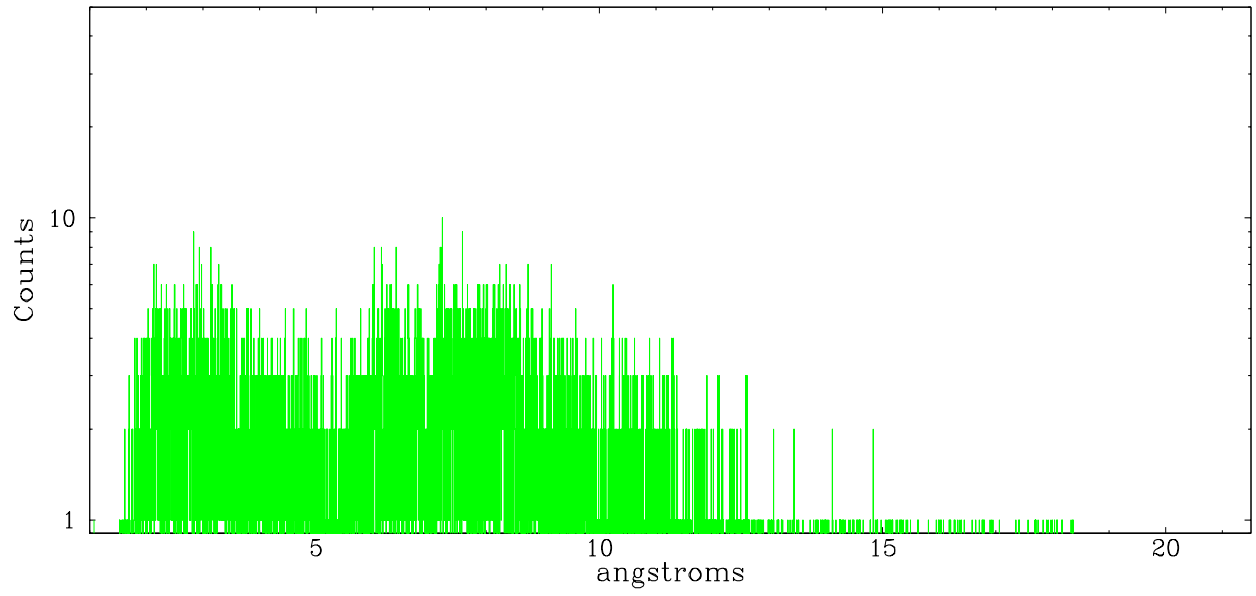


Full Detector HEG

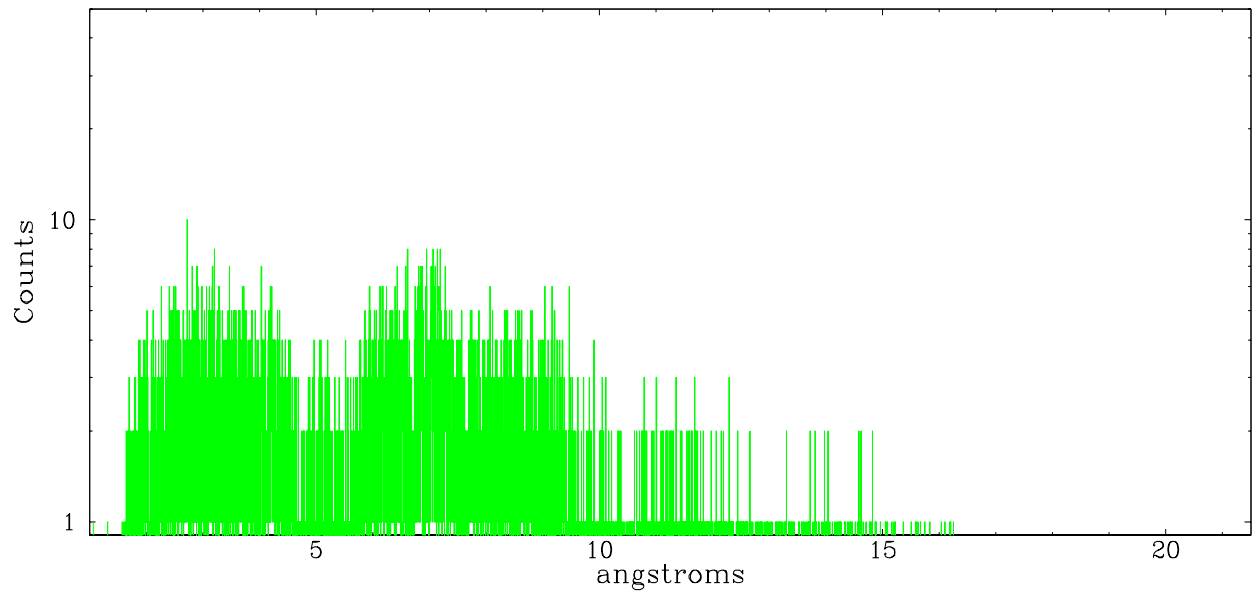
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	287	764	7321	12171	6606	578	296



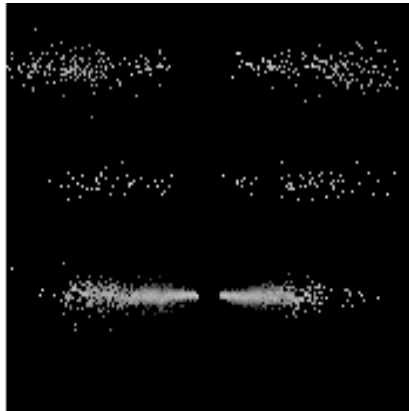
heg order -1



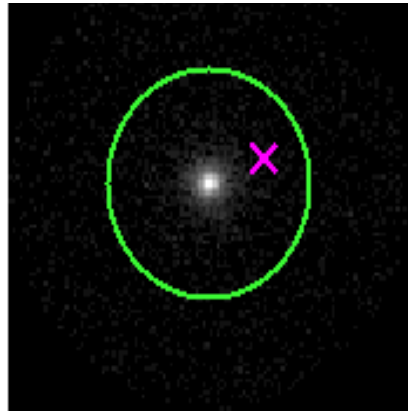
heg order +1



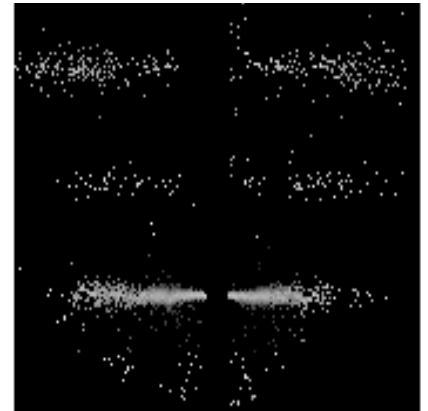
3.2 MEG Arm



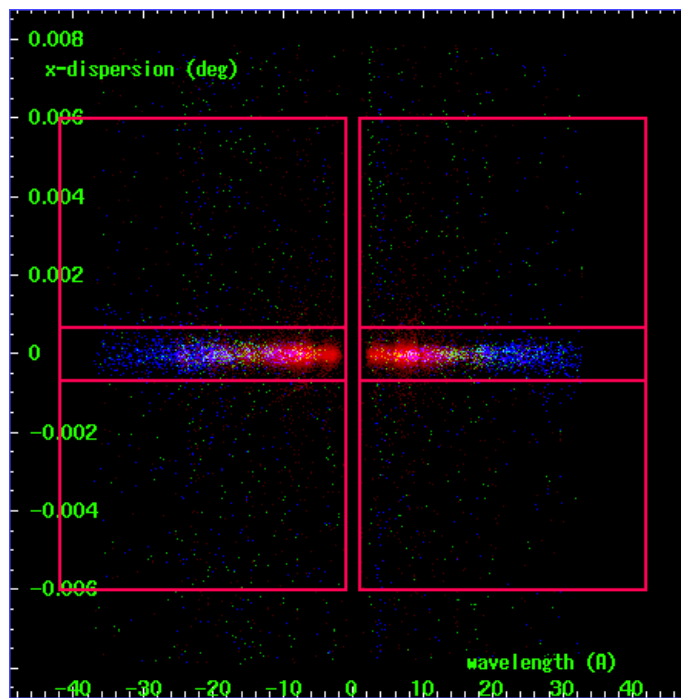
MEG Order Sort 123



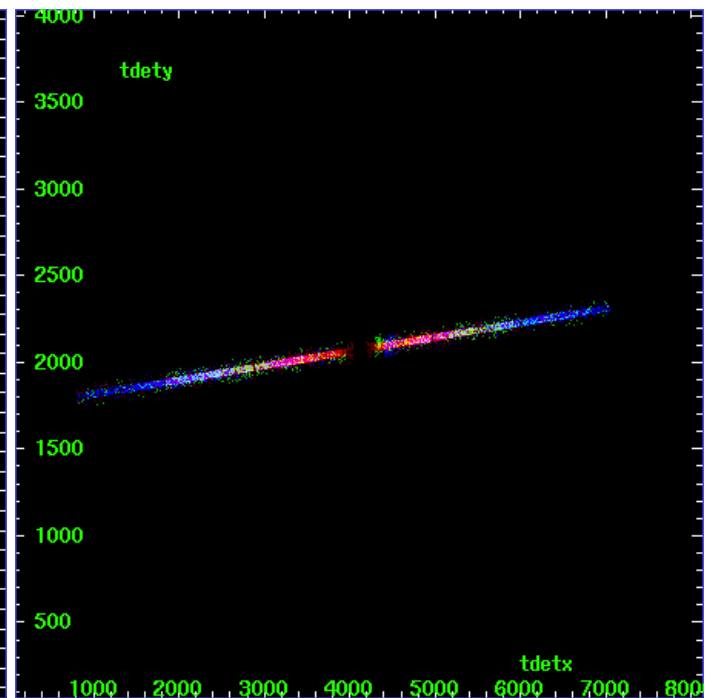
MEG Zero Order



MEG Order Sort ALL

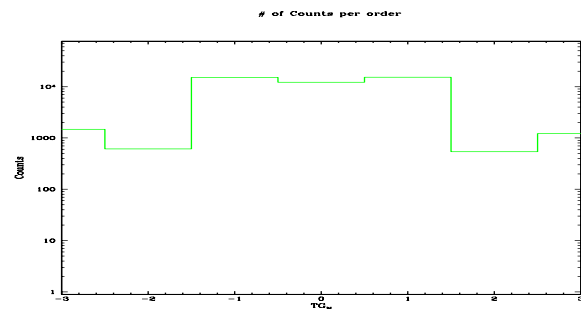


Spot Image MEG

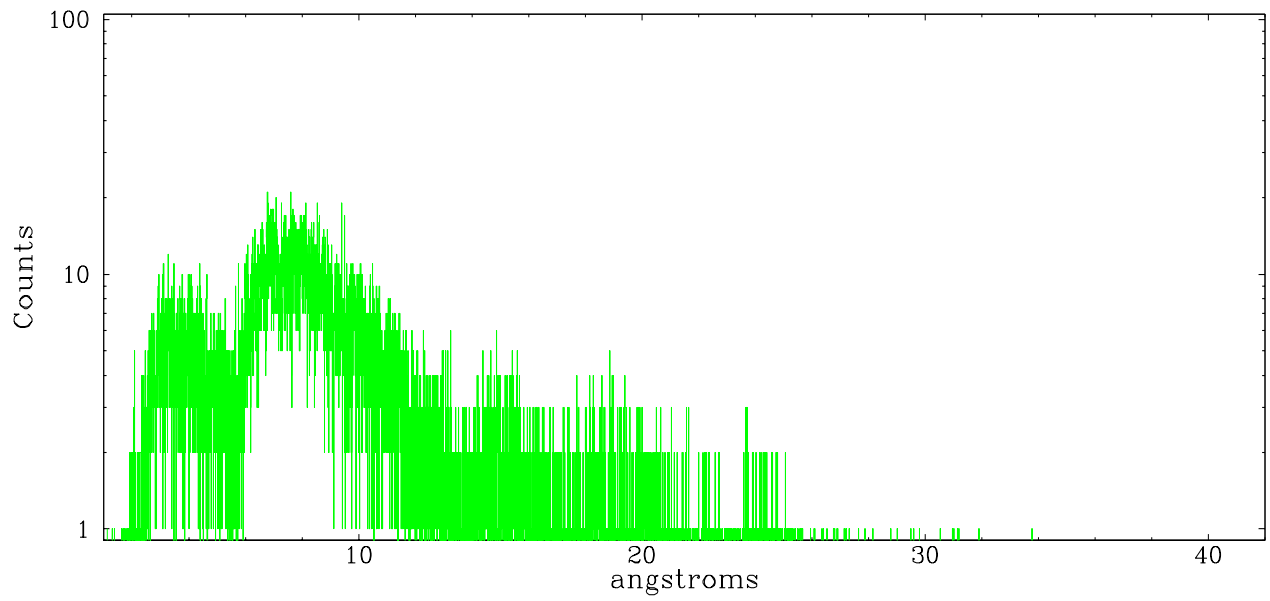


Full Detector MEG

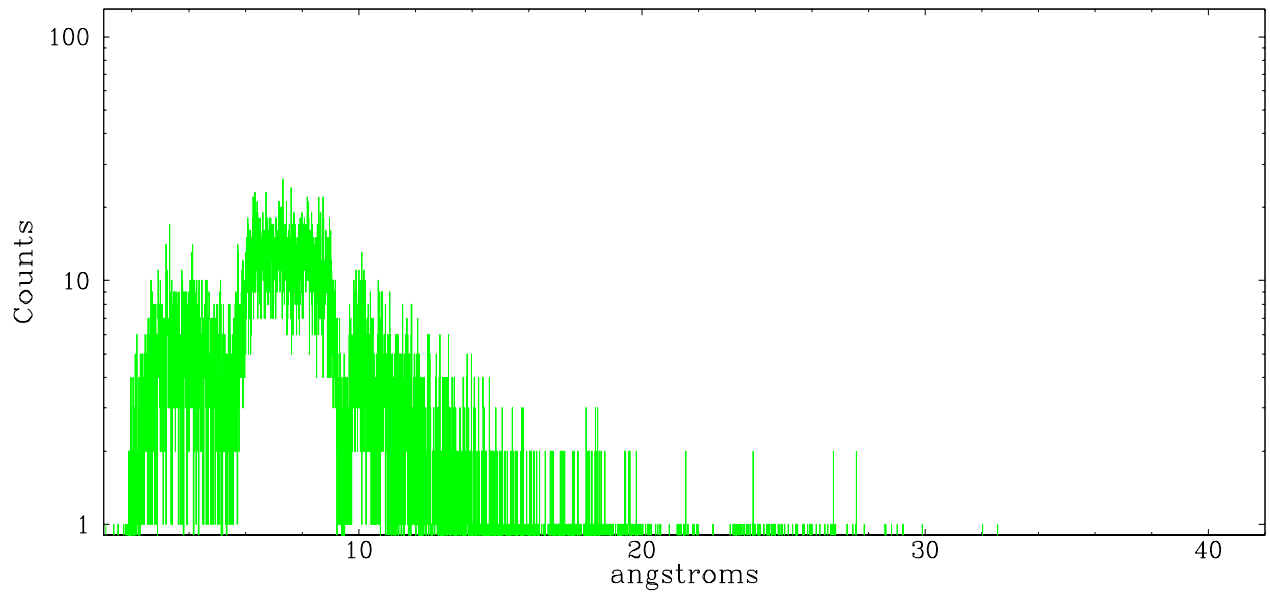
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1481	612	15113	12171	15326	540	1218



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.165

A.2 Comments

Star in slot 7 has an RMS deviation > 0.200000 arcsec. This deviation is not considered large enough to affect the quality of the aspect solution.