

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3727 - L2 Version 001
Chandra X-Ray Center

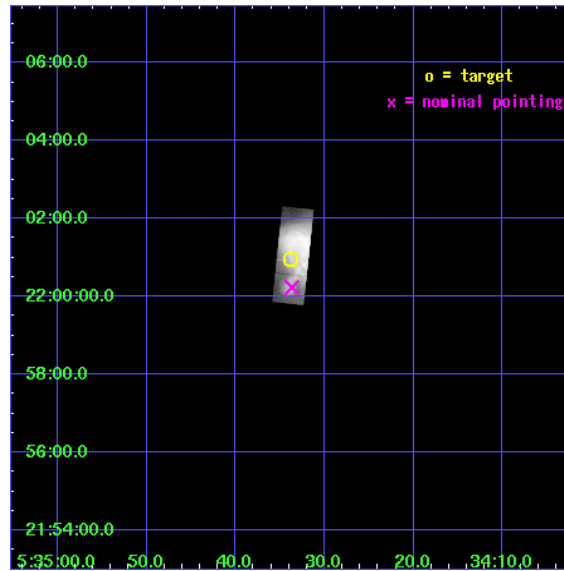
L2 Processing Date : Dec 8 2006

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1 Front

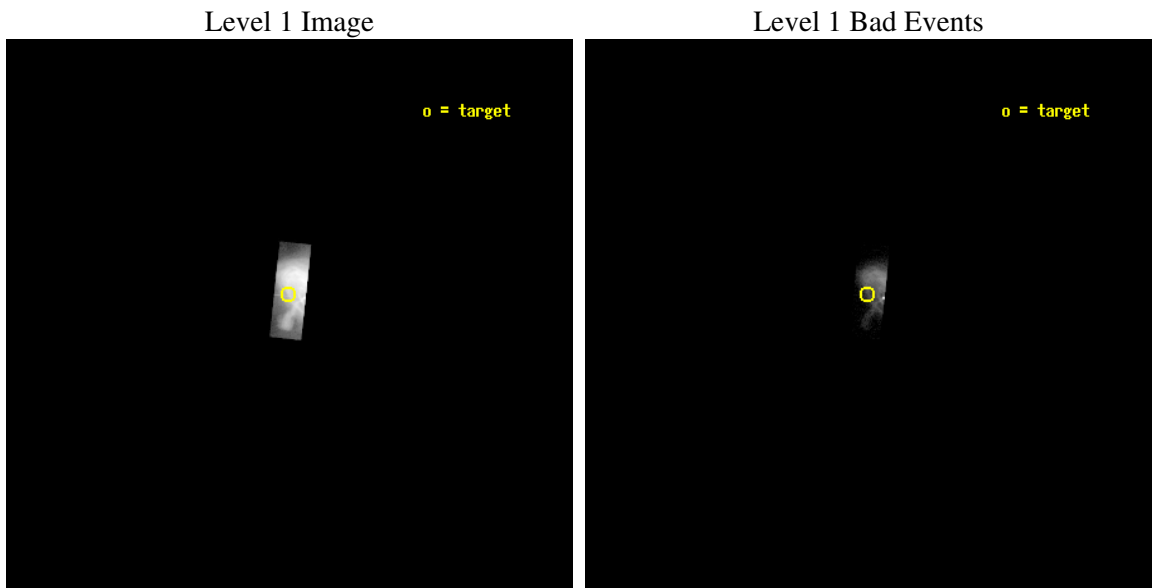
seq_num	100037
obs_id	3727
title	OBSERVATION OF SATURN AND TITAN PASSING IN FRONT OF THE CRAB NEBULA
observer	PROFESSOR HIROSHI TSUNEMI
object	TITAN
dtcycle	0
cycle	P
ra_targ	83.64077
dec_targ	22.016361
ra_nom	83.640386896903
dec_nom	22.003917792921
roll_nom	276.15596345214
revision	2
ontime	11196.300444901
livetime	9848.9623899551
ontime7	11196.300444901
l2events	1805748



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-18T18:10:47
revision	2

sched_exp_time	11000.000000
ontime	11832.6000745
ontime7	11832.6000745
l1events	1887154

2.1.3 Events

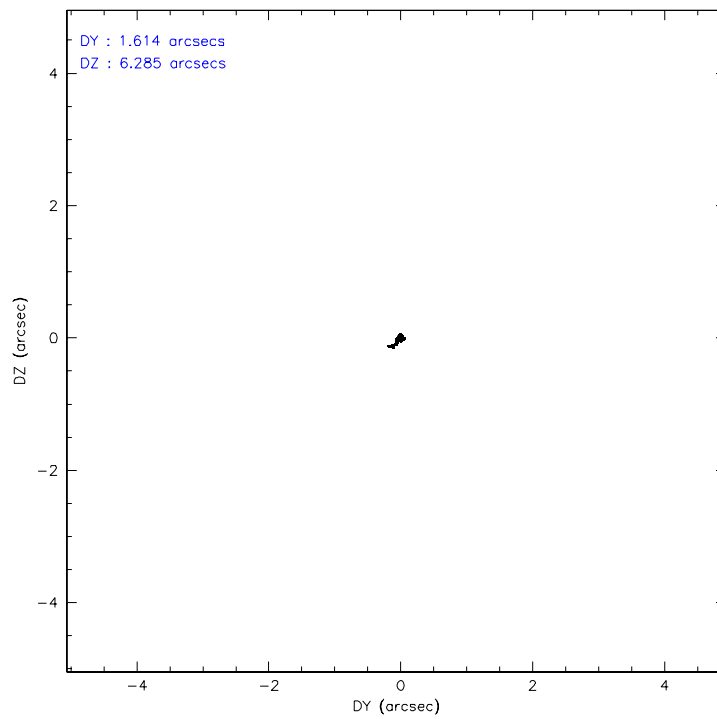
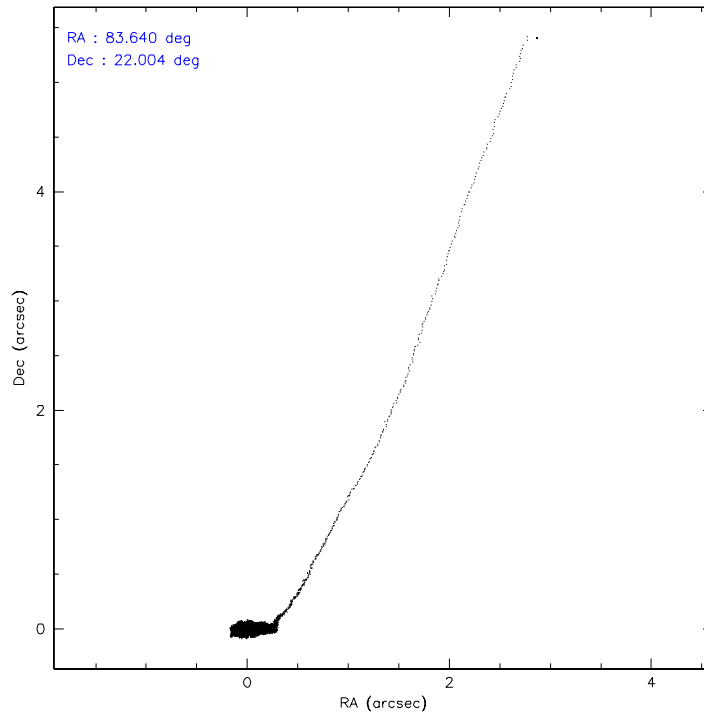
	ccd 7
level 1 events	1887154
rejected events	73691
rejected %	3%

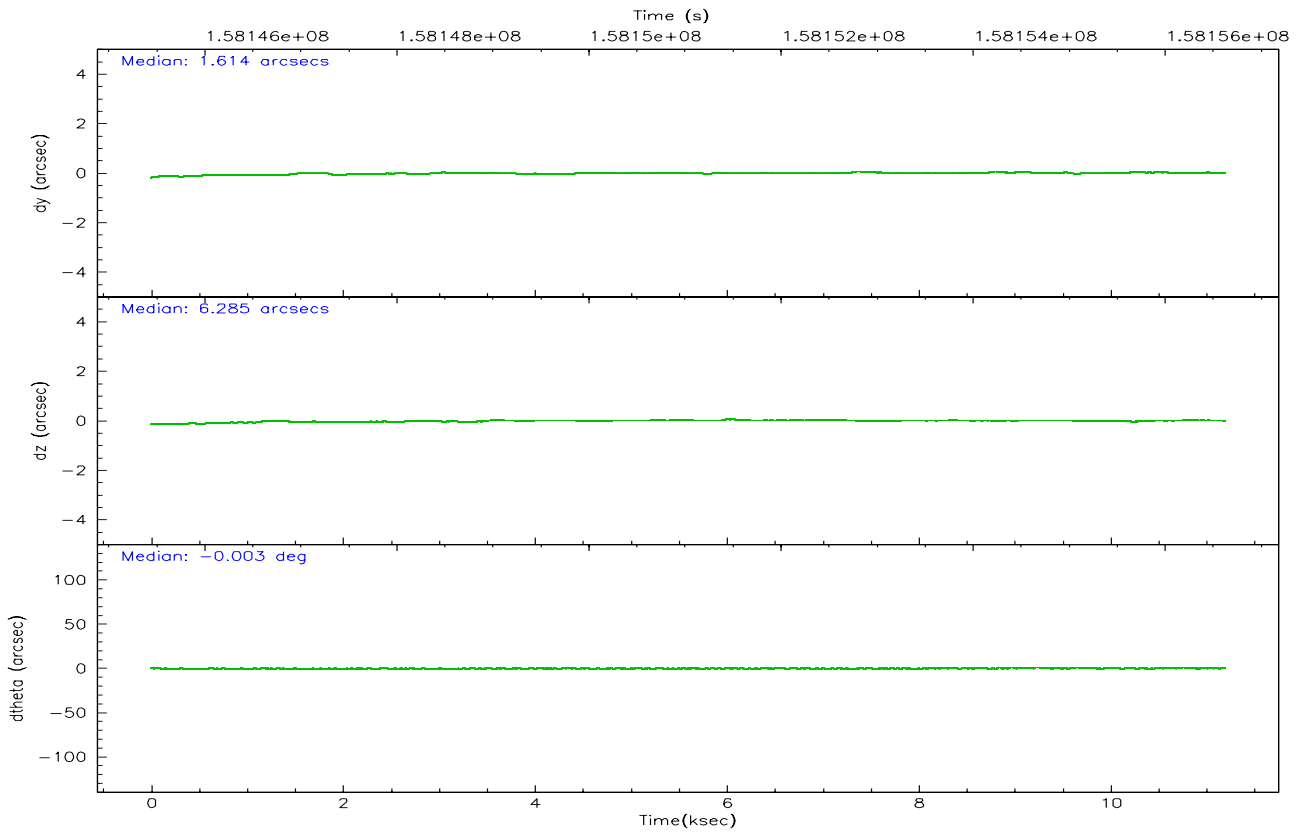
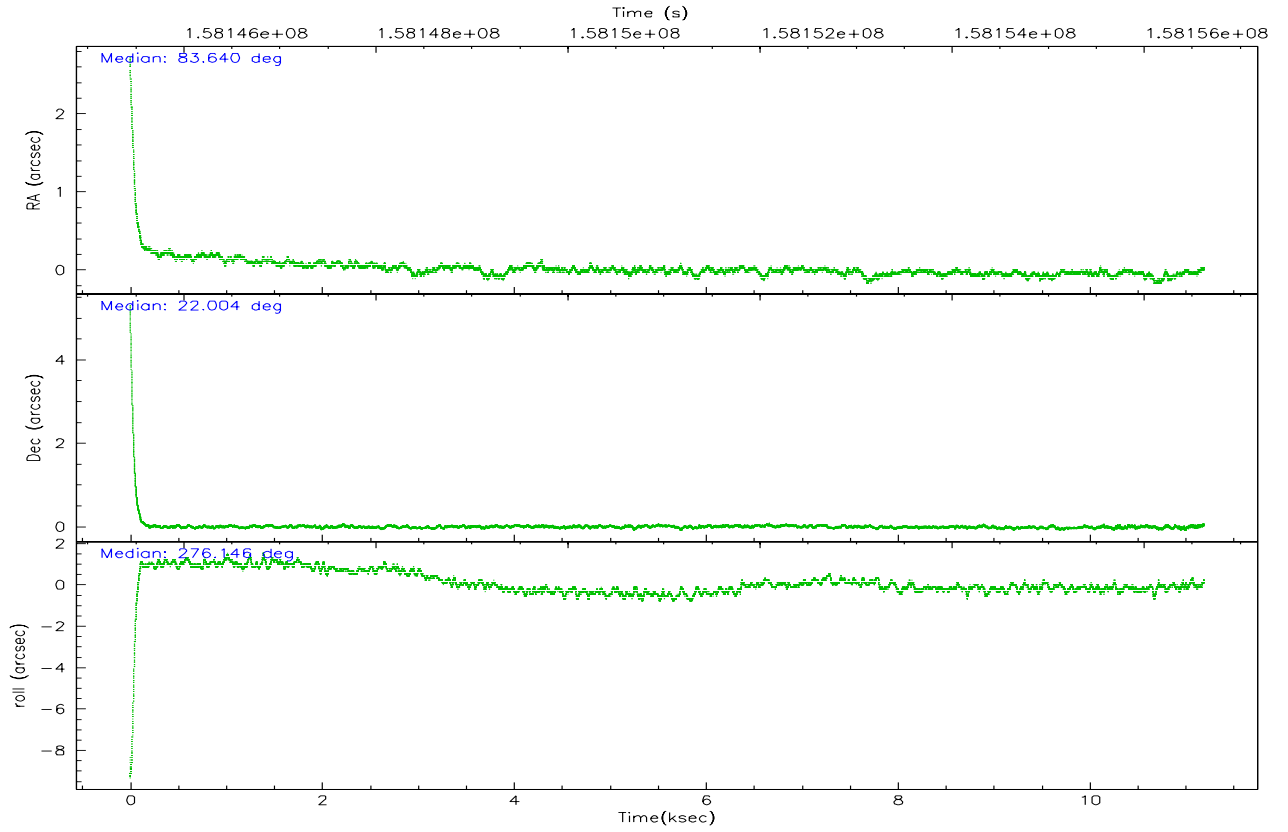
	ccd 7
grade 0 events	384535
	20%
grade 1 events	5878
	0%
grade 2 events	472174
	25%
grade 3 events	208674
	11%
grade 4 events	200114
	10%
grade 5 events	25186
	1%
grade 6 events	562330
	29%
grade 7 events	28263
	1%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	83.622724	83.64038689690324	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	22.025663	22.0039177929207	Subarray start row	127	127
Pointing Roll	276.005957	276.1559634521384	Subarray row count	101	101
Window start time	158144464.184000	158144464.184000	Alternating exposures requested	N	N
Window stop time	158185864.184000	158185864.184000	Primary exposure time	0.000000	0.3
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1344861297048			
SIM translation stage offset (mm)	-8	-7.998036453302973			
Observation start time	158145630.184000	158144664.62059			
Observation start date	2003-01-05T09:19:26	2003-01-05T09:04:24			
Observation end time	158156630.184000	158156763.7211			
Observation end date	2003-01-05T12:22:46	2003-01-05T12:26:03			
Read mode	TIMED	TIMED			

2.3 Aspect



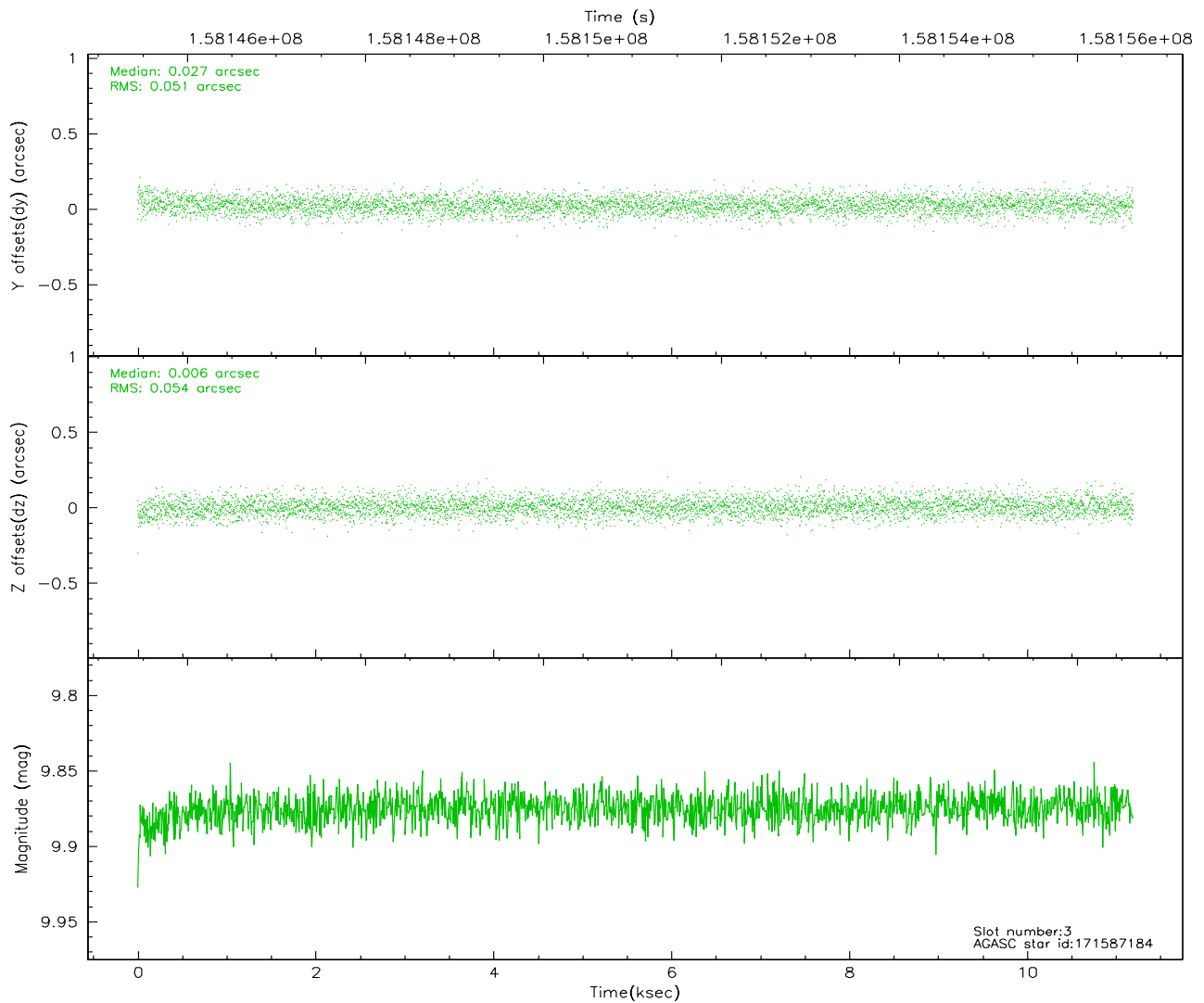
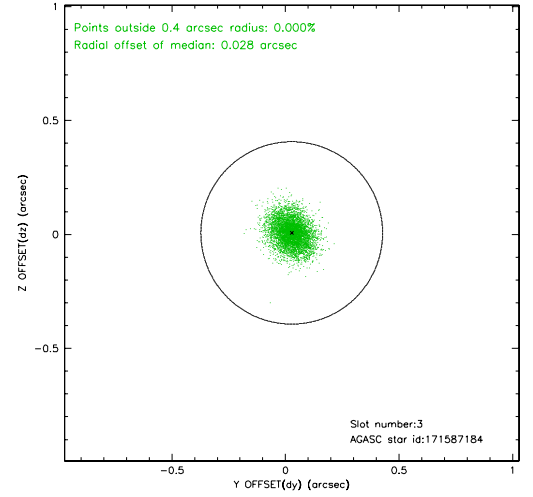
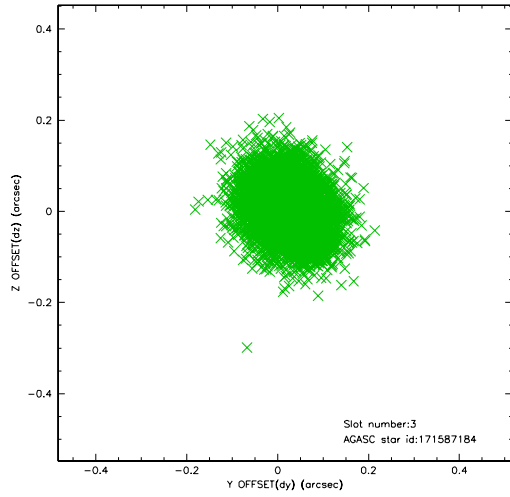


Slot Statistics

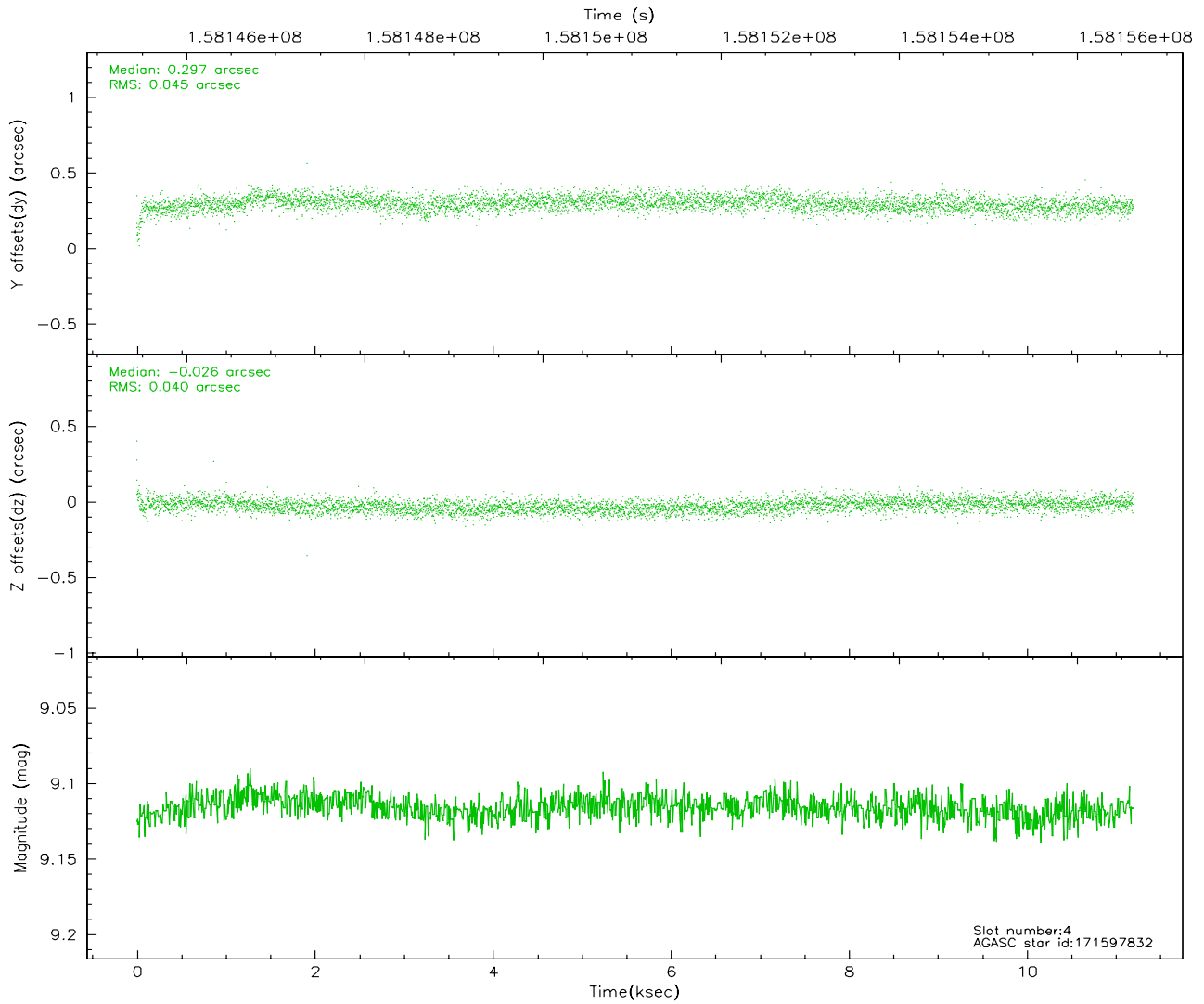
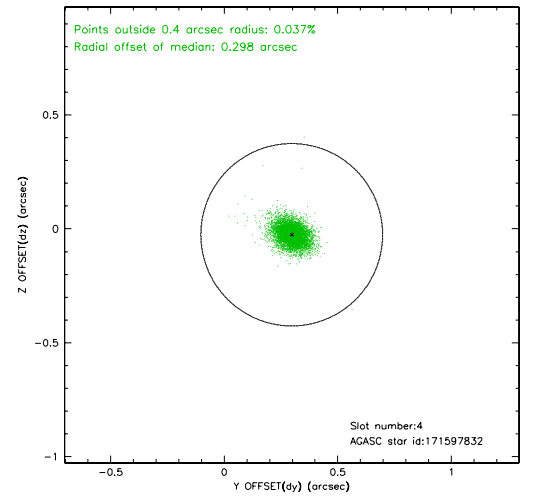
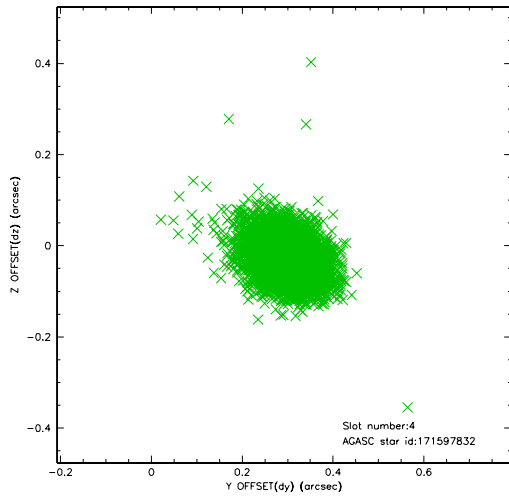
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2731	-0.049	-0.092	0.007	0.012	0.000000	0.000000	-753.70	-1892.27
1	FID	ACIS-S-4	7.18	2731	0.051	0.048	0.005	0.009	0.000000	0.000000	2159.49	15.78
2	FID	ACIS-S-5	7.22	2731	-0.033	0.052	0.007	0.011	0.000000	0.000000	-1805.92	10.01
3	GUIDE	171587184	9.88	5458	0.027	0.006	0.080	0.129	83.729362	22.466719	-1541.86	519.12
4	GUIDE	171597832	9.12	5462	0.297	-0.026	0.061	0.104	83.183230	21.366702	2203.65	-1712.56
5	GUIDE	171600224	9.66	5457	-0.269	0.034	0.078	0.132	82.941815	21.636094	1152.23	-2411.97
6	GUIDE	171721904	9.23	5461	-0.050	0.023	0.055	0.093	84.272676	22.116922	-104.45	2190.59
7	GUIDE	243941560	8.31	5462	-0.003	-0.038	0.035	0.057	83.733264	22.568598	-1905.30	570.40

2.4 Star Slots

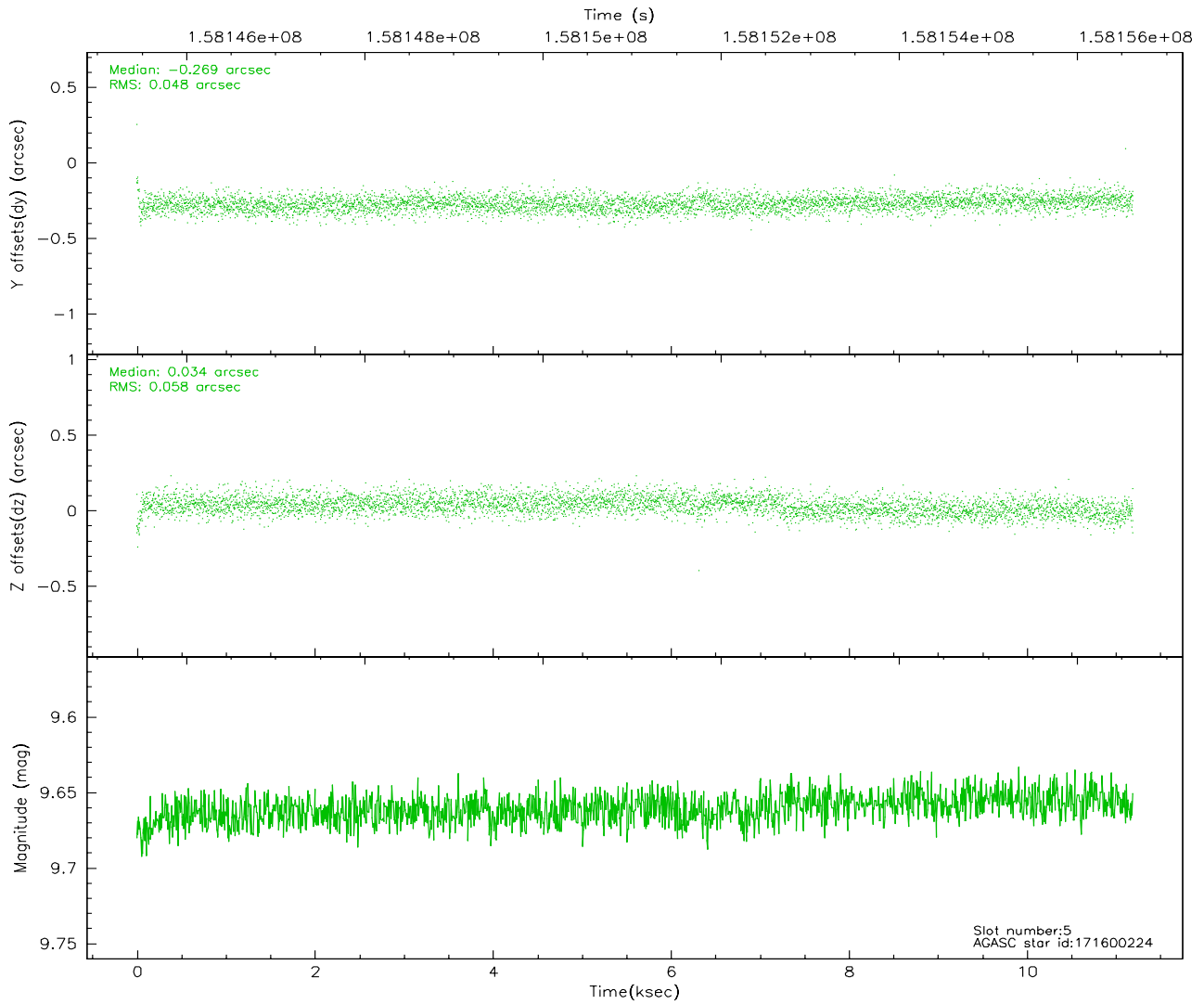
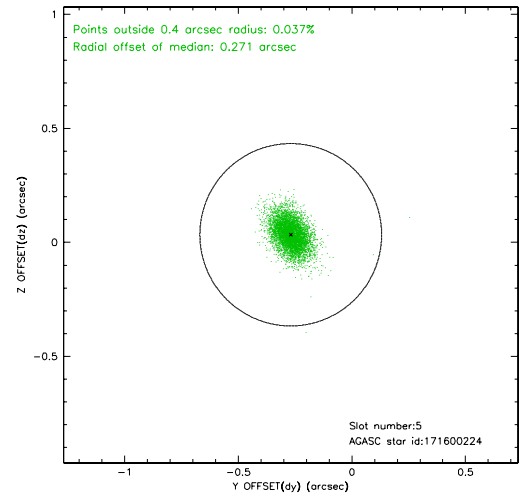
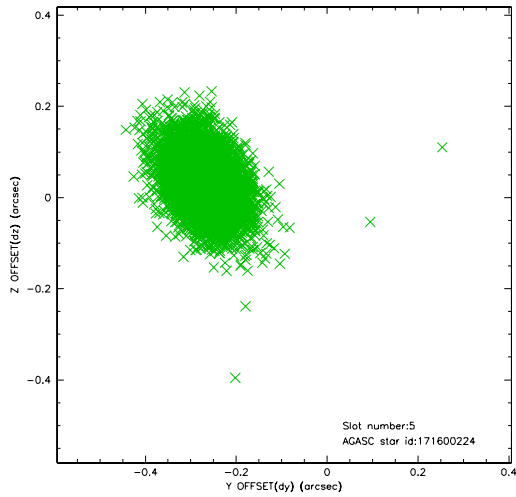
2.4.1 Slot 3



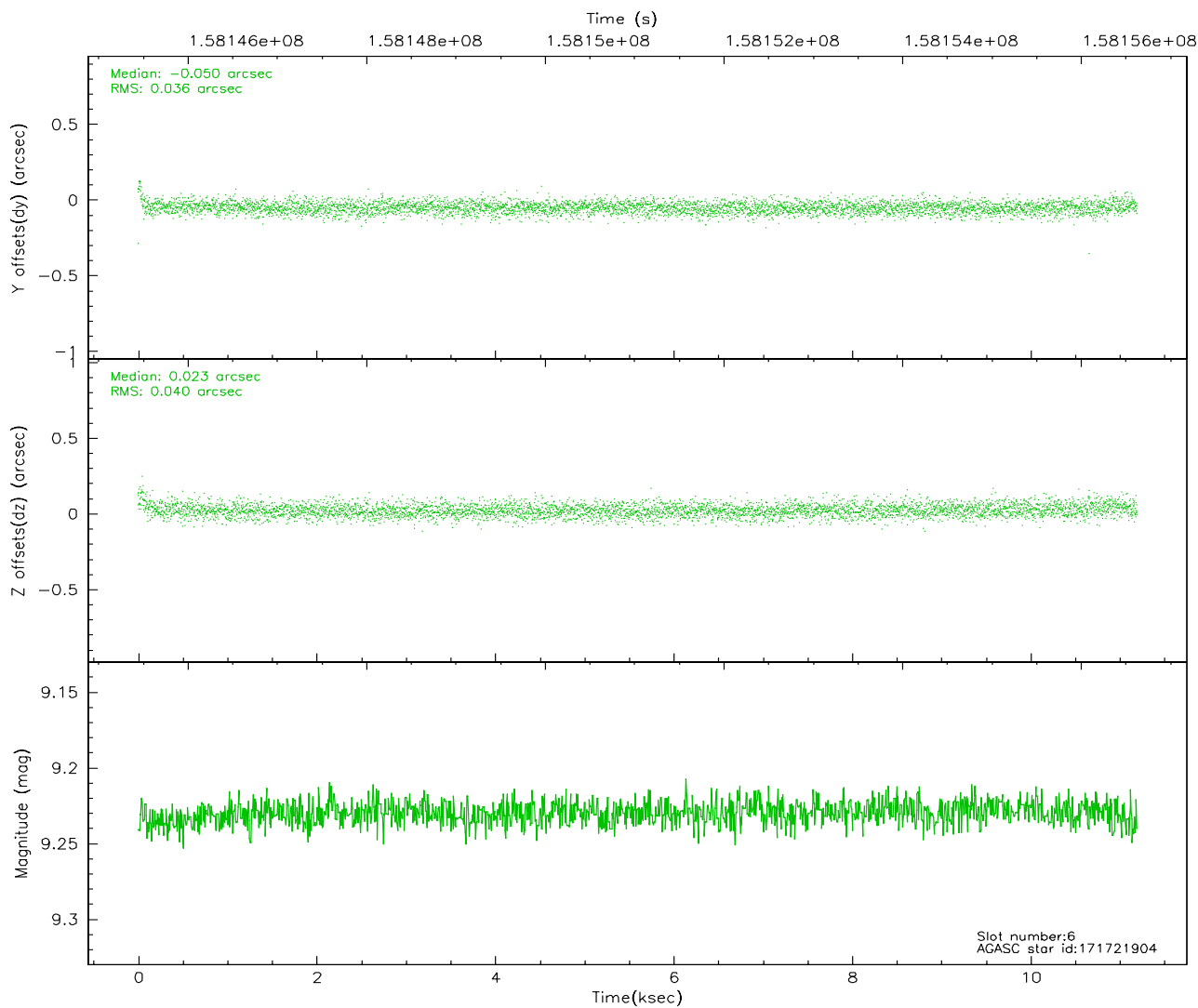
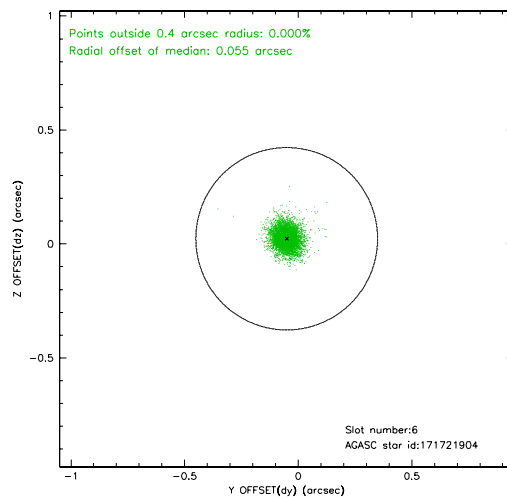
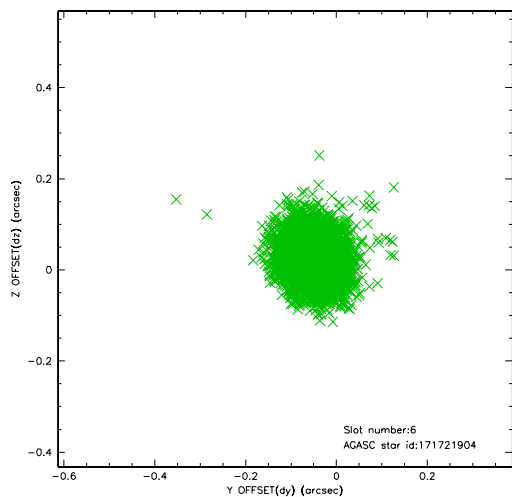
2.4.2 Slot 4



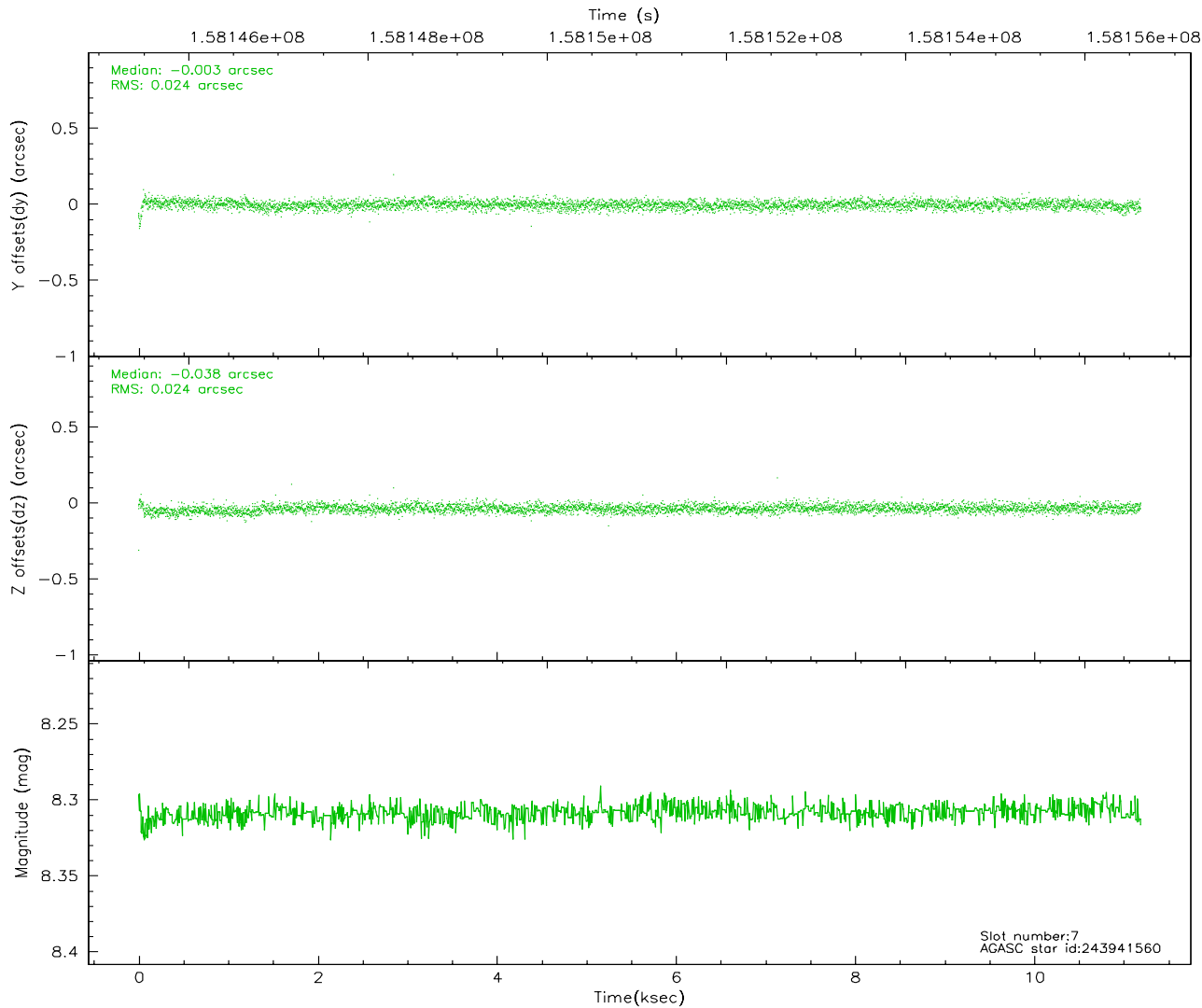
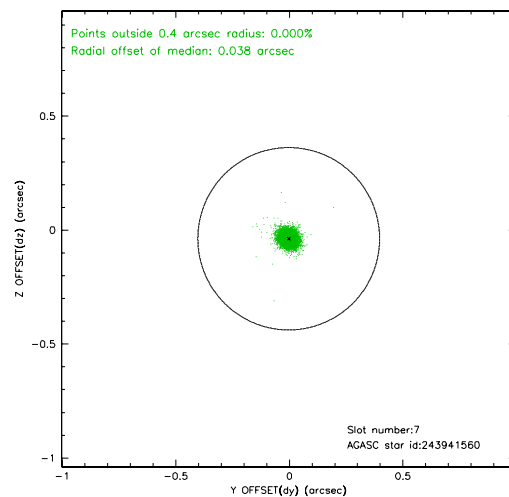
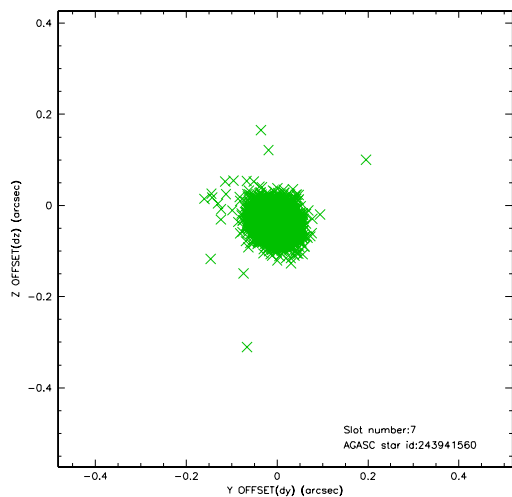
2.4.3 Slot 5



2.4.4 Slot 6

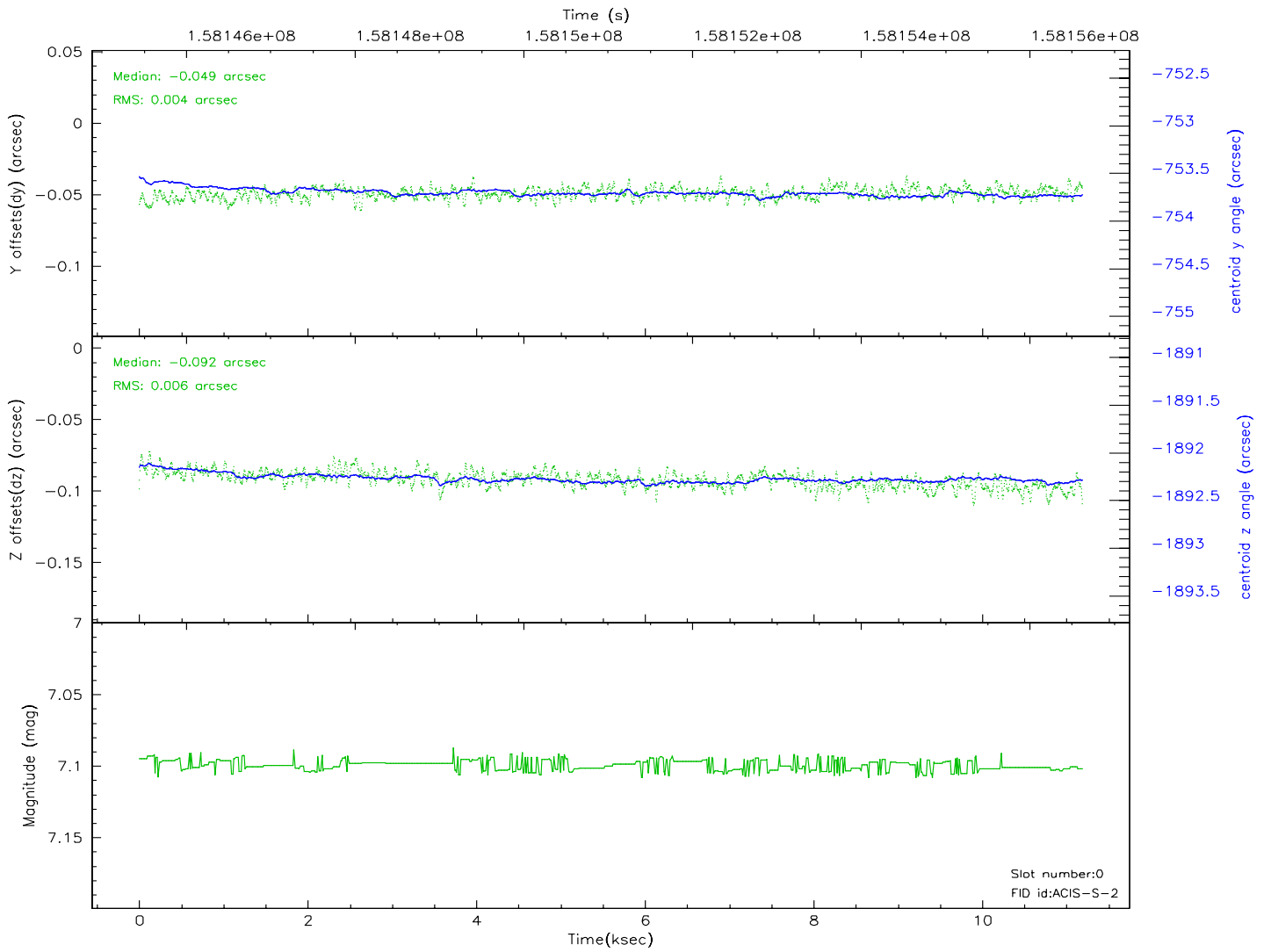
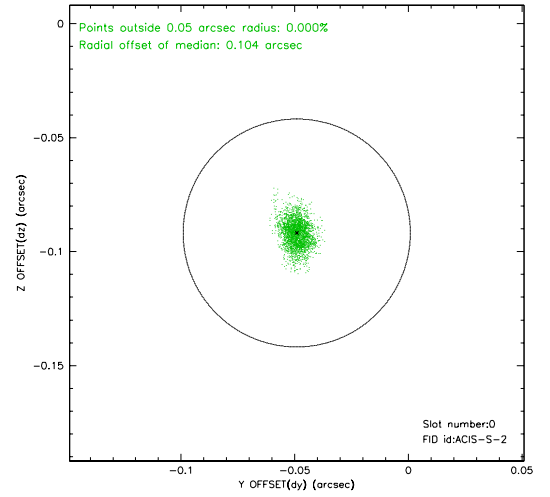
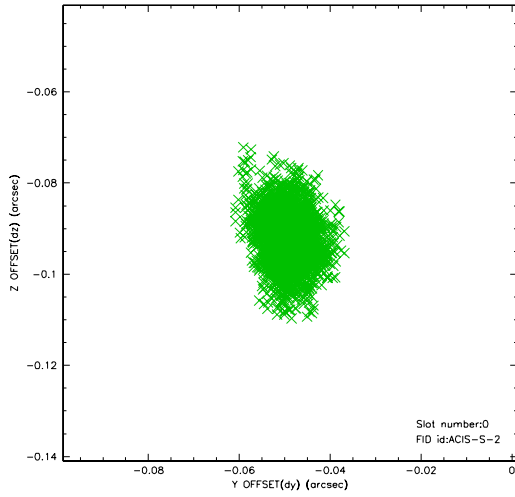


2.4.5 Slot 7

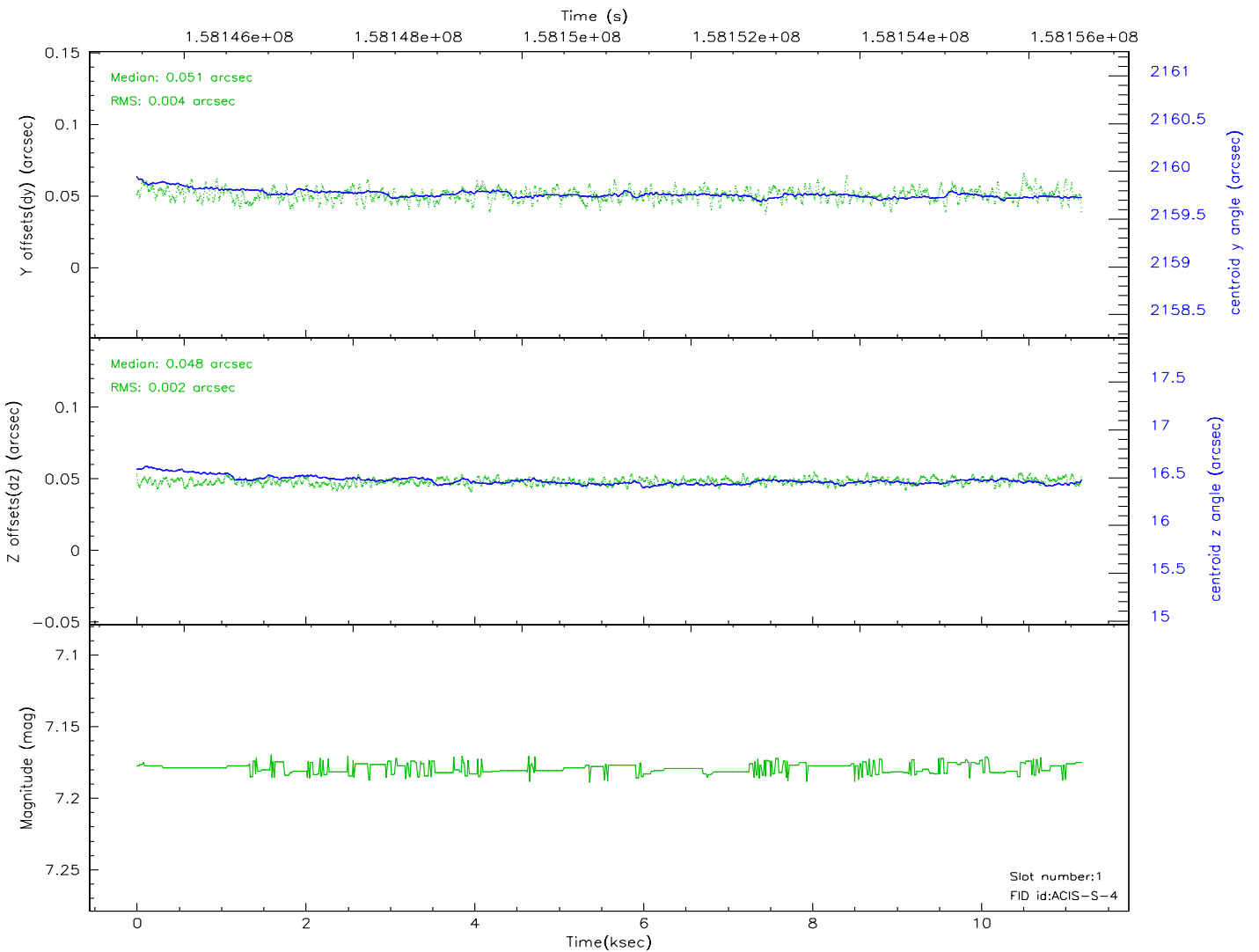
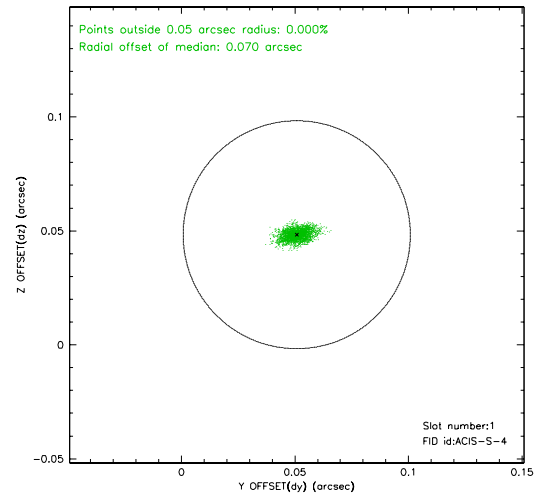
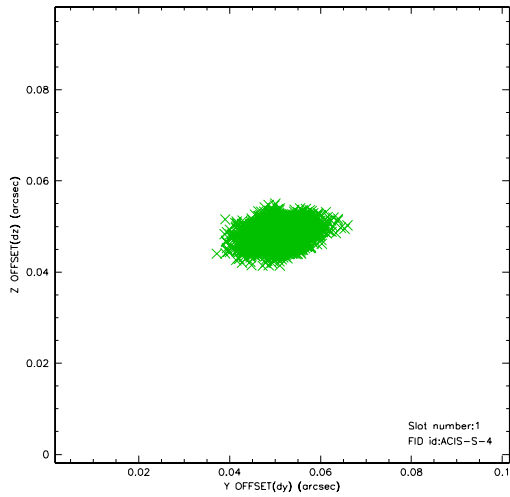


2.5 FID Slots

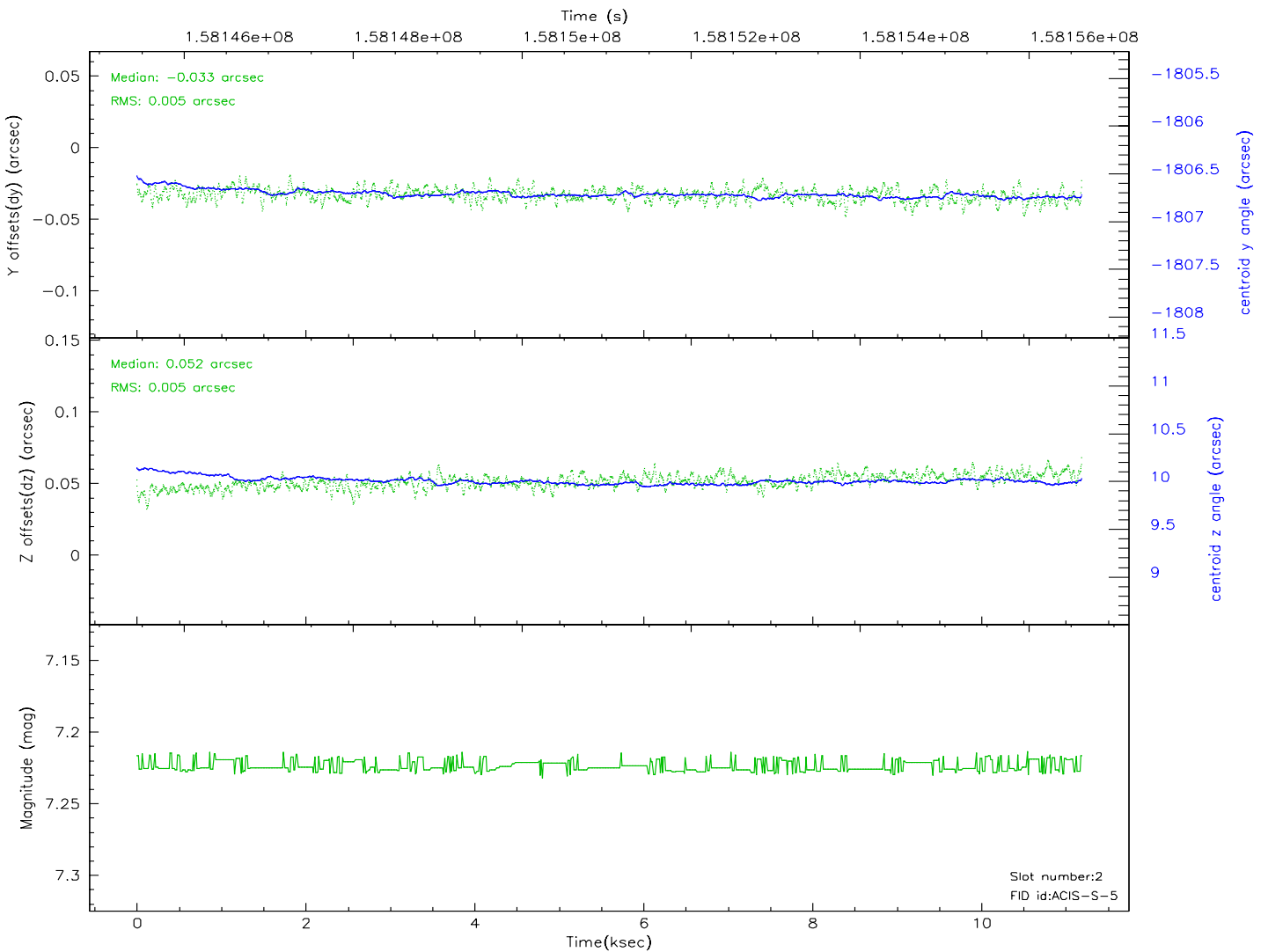
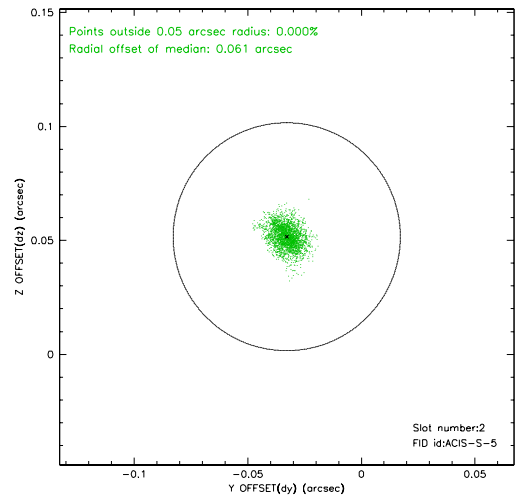
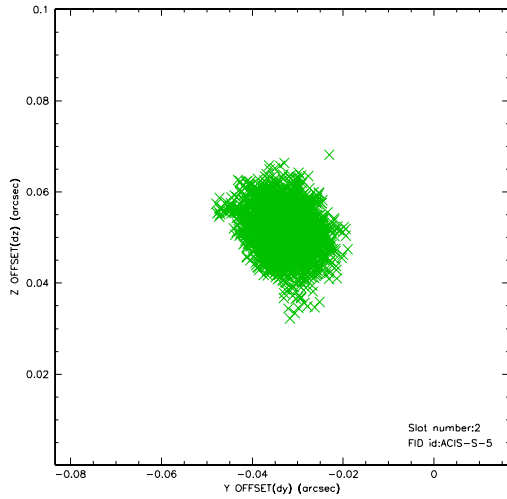
2.5.1 Slot 0



2.5.2 Slot 1

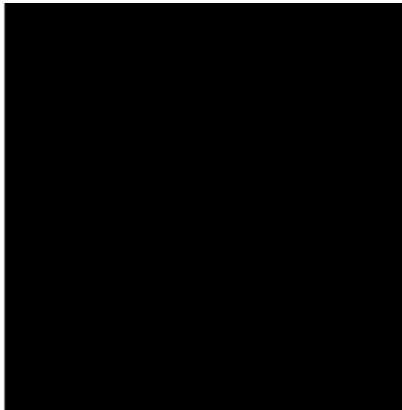


2.5.3 Slot 2

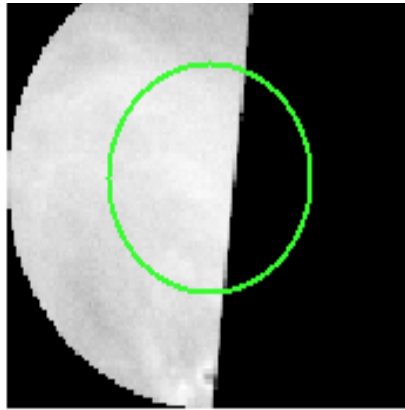


3 Gratings

3.1 HEG Arm



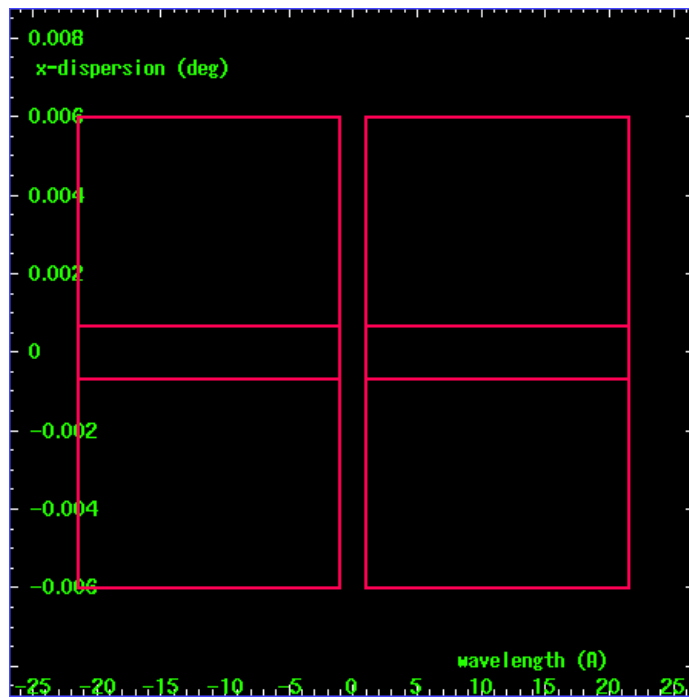
HEG Order Sort 123



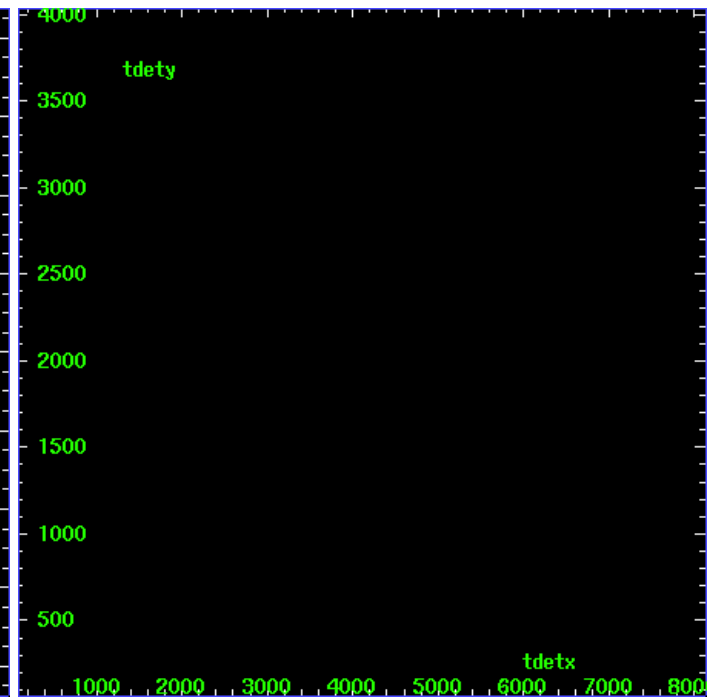
HEG Zero Order



HEG Order Sort ALL

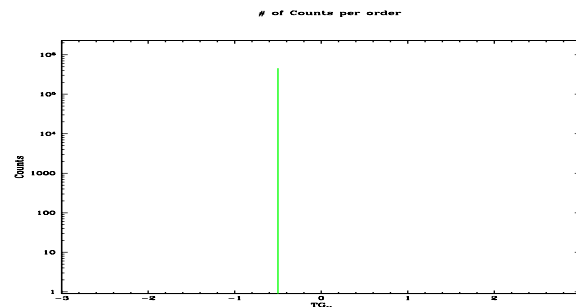


Spot Image HEG

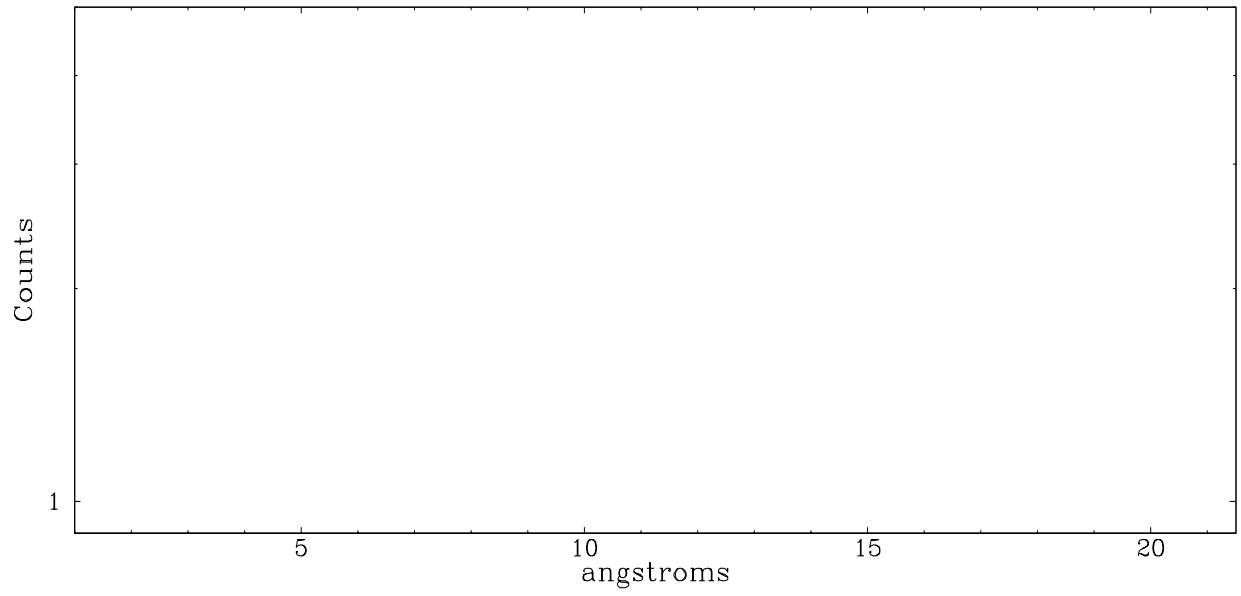


Full Detector HEG

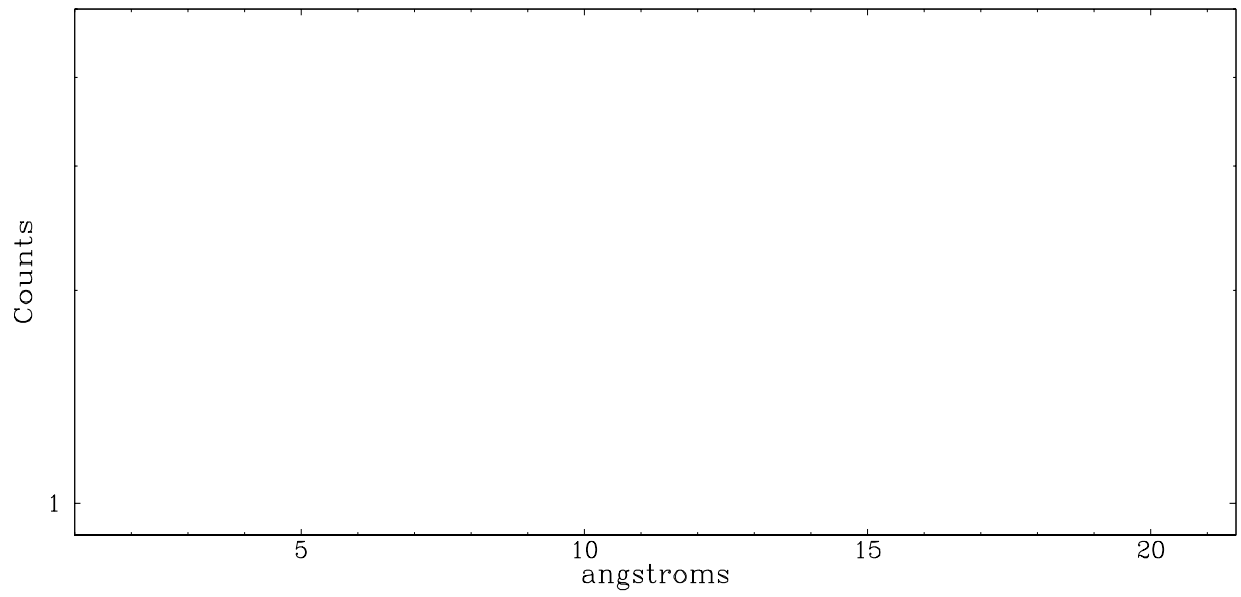
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	453634	0	0	0



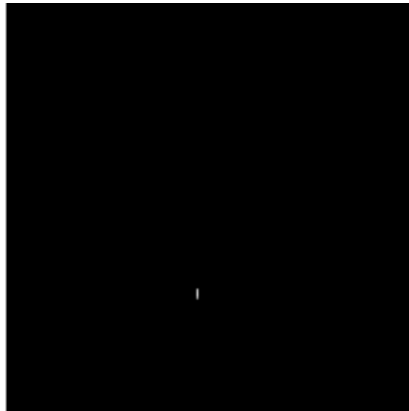
heg order -1



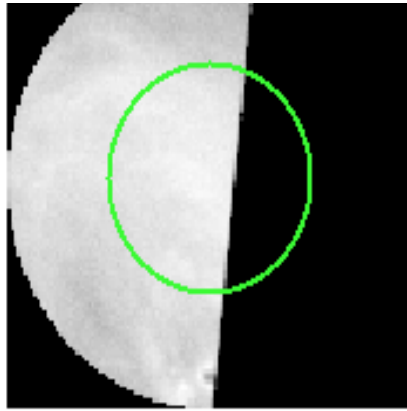
heg order +1



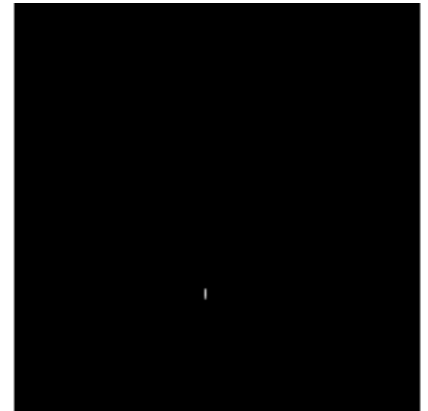
3.2 MEG Arm



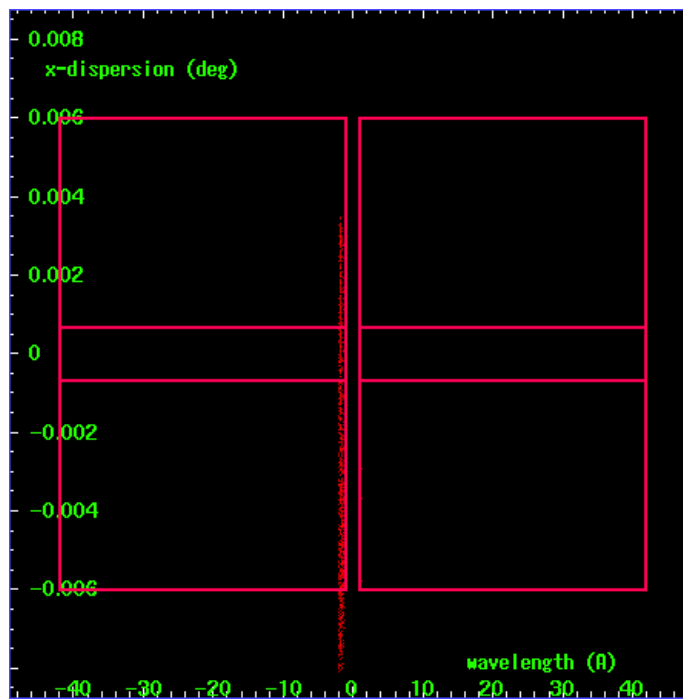
MEG Order Sort 123



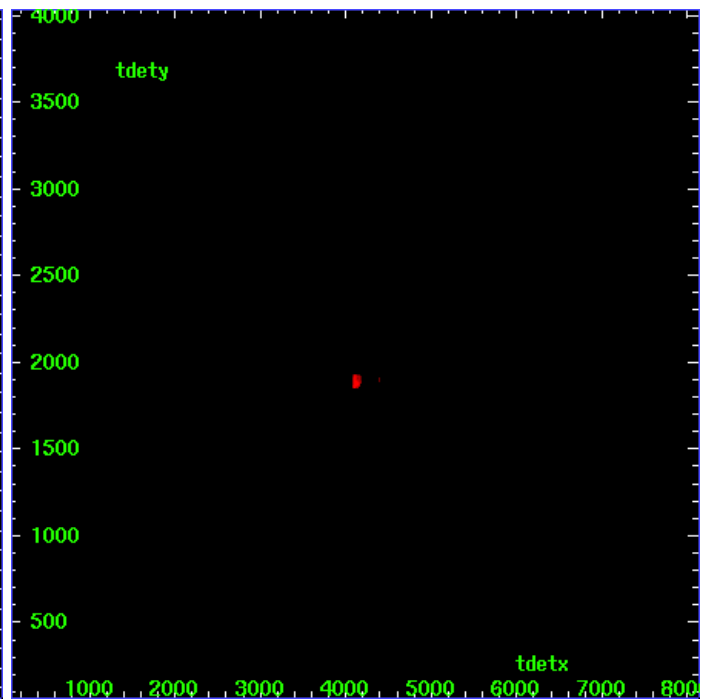
MEG Zero Order



MEG Order Sort ALL

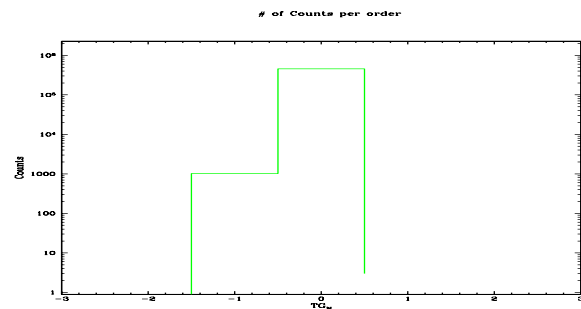


Spot Image MEG

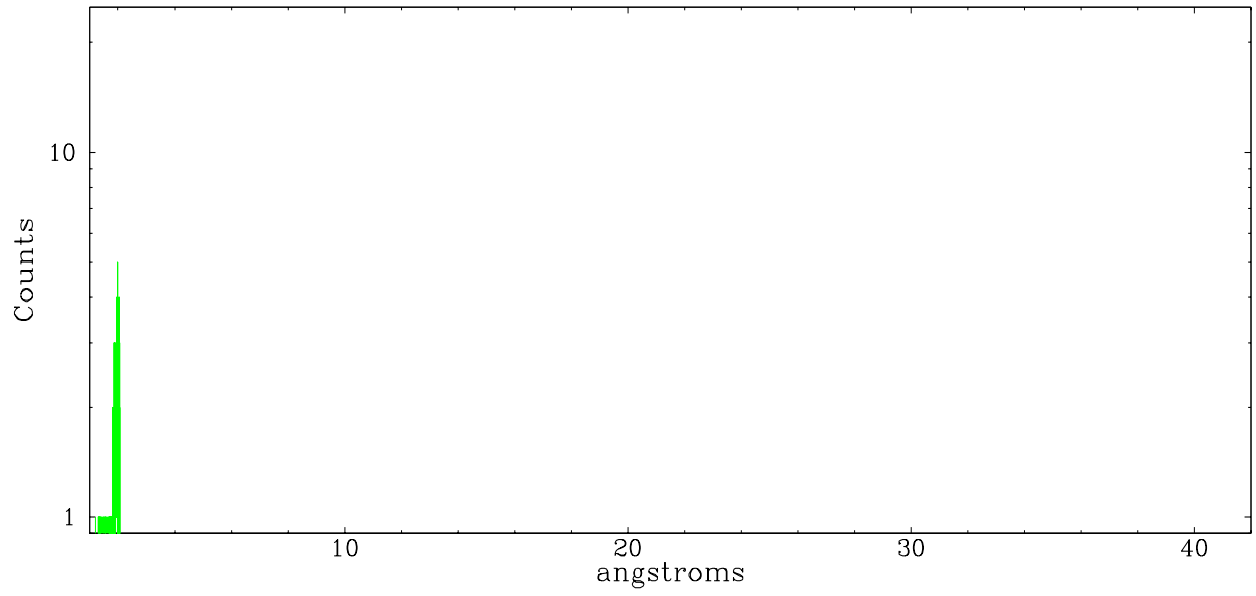


Full Detector MEG

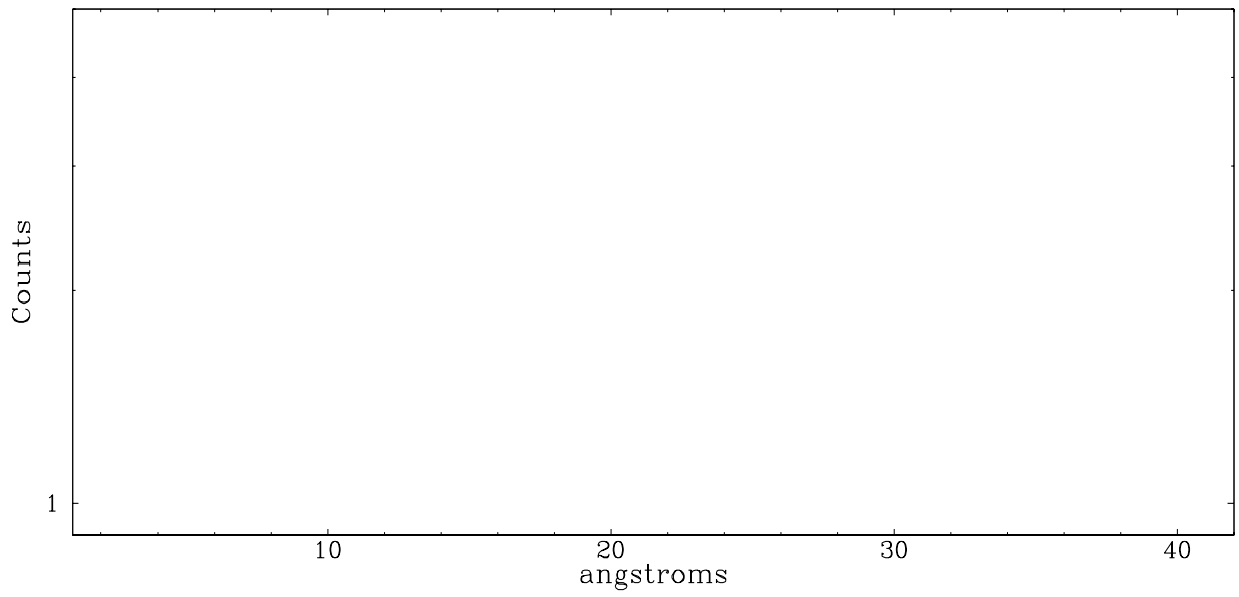
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	1018	453634	3	0	0



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.196

A.2 Comments

HETG used as count-rate suppression filter. No useful HETG spectral products. Only zero-order imaging or ccd-spectral data are of interest.