

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6633 - L2 Version 2
Chandra X-Ray Center

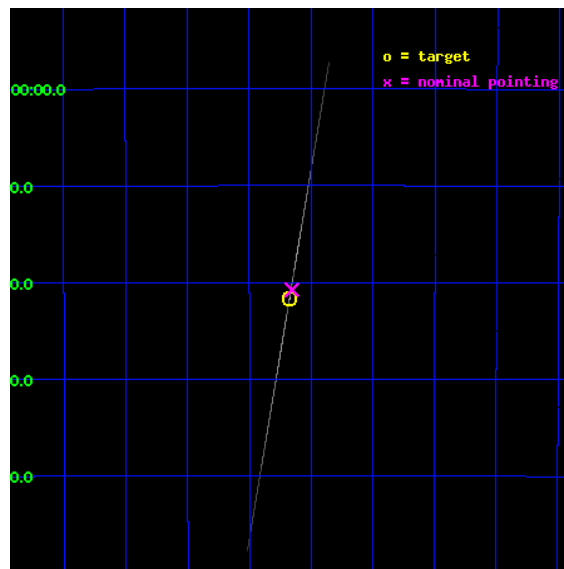
L2 Processing Date : Apr 7 2012

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1 Front

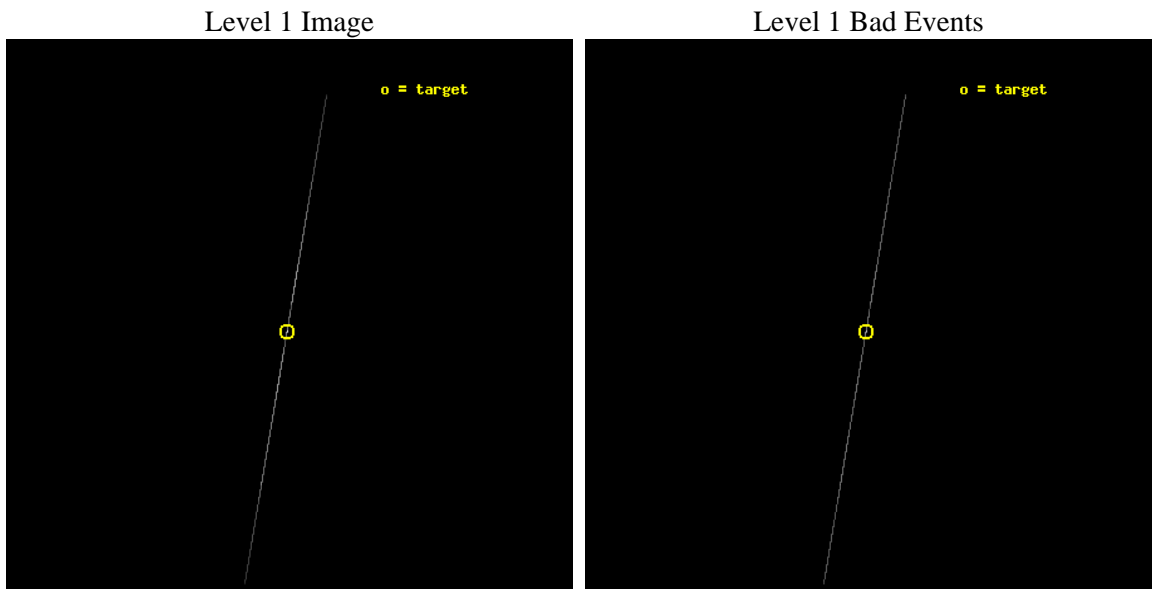
seq_num	400538	Sequence number
obs_id	6633	Observation id
title	CHAZSS: The Chandra HETGS Atoll/Z Spectroscopic Survey	Proposal ti
observer	Dr Jon Miller	Principal investigator
object	4U 1820-30	Source name
ra_targ	275.91875	Observer's specified target RA [deg]
dec_targ	-30.361111	Observer's specified target Dec [deg]
ra_nom	275.91390780436	Nominal RA [deg]
dec_nom	-30.346185654675	Nominal Dec [deg]
roll_nom	279.57185512549	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25178.0	Sum of GTIs [s]
livetime	25079.6484375	Livetime [s]
ontime4	25178.0	Sum of GTIs [s]
ontime5	25178.0	Sum of GTIs [s]
ontime6	25178.0	Sum of GTIs [s]
ontime7	25178.0	Sum of GTIs [s]
ontime8	25178.0	Sum of GTIs [s]
ontime9	25178.0	Sum of GTIs [s]
l2events	5389547	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	25178.0	Sum of GTIs [s]
caldbver	4.4.9	 	ontime4	25178.0	Sum of GTIs [s]
date	2012-04-07T09:45:13	Date and time of file creation	ontime5	25178.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	25178.0	Sum of GTIs [s]
			ontime7	25178.0	Sum of GTIs [s]
			ontime8	25178.0	Sum of GTIs [s]
			ontime9	25178.0	Sum of GTIs [s]
			l1events	6044017	Number of level 1 events

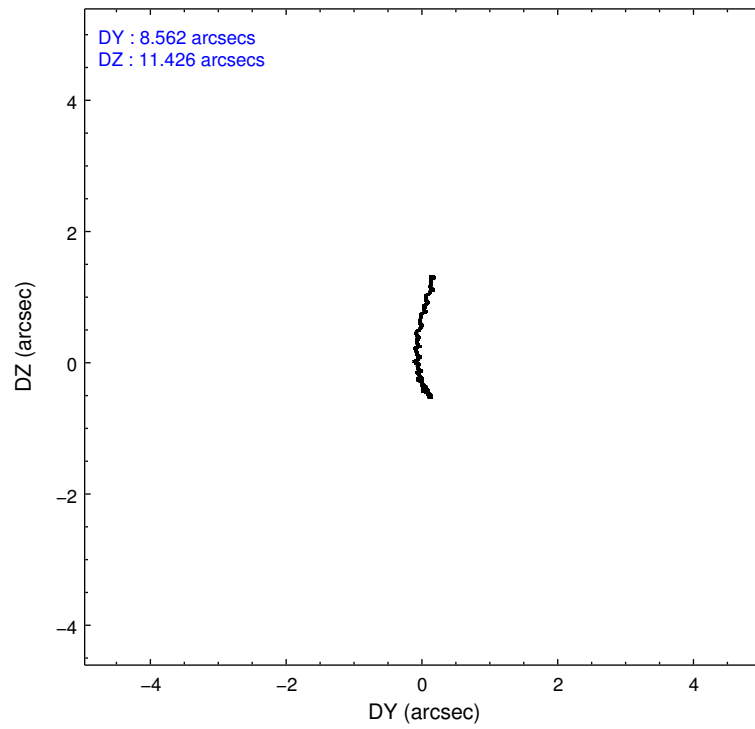
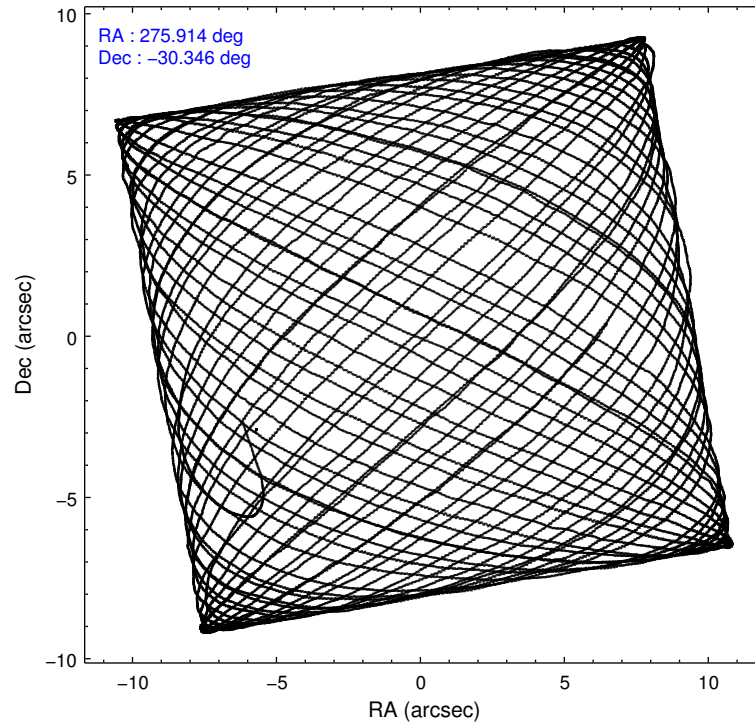
2.1.3 Events

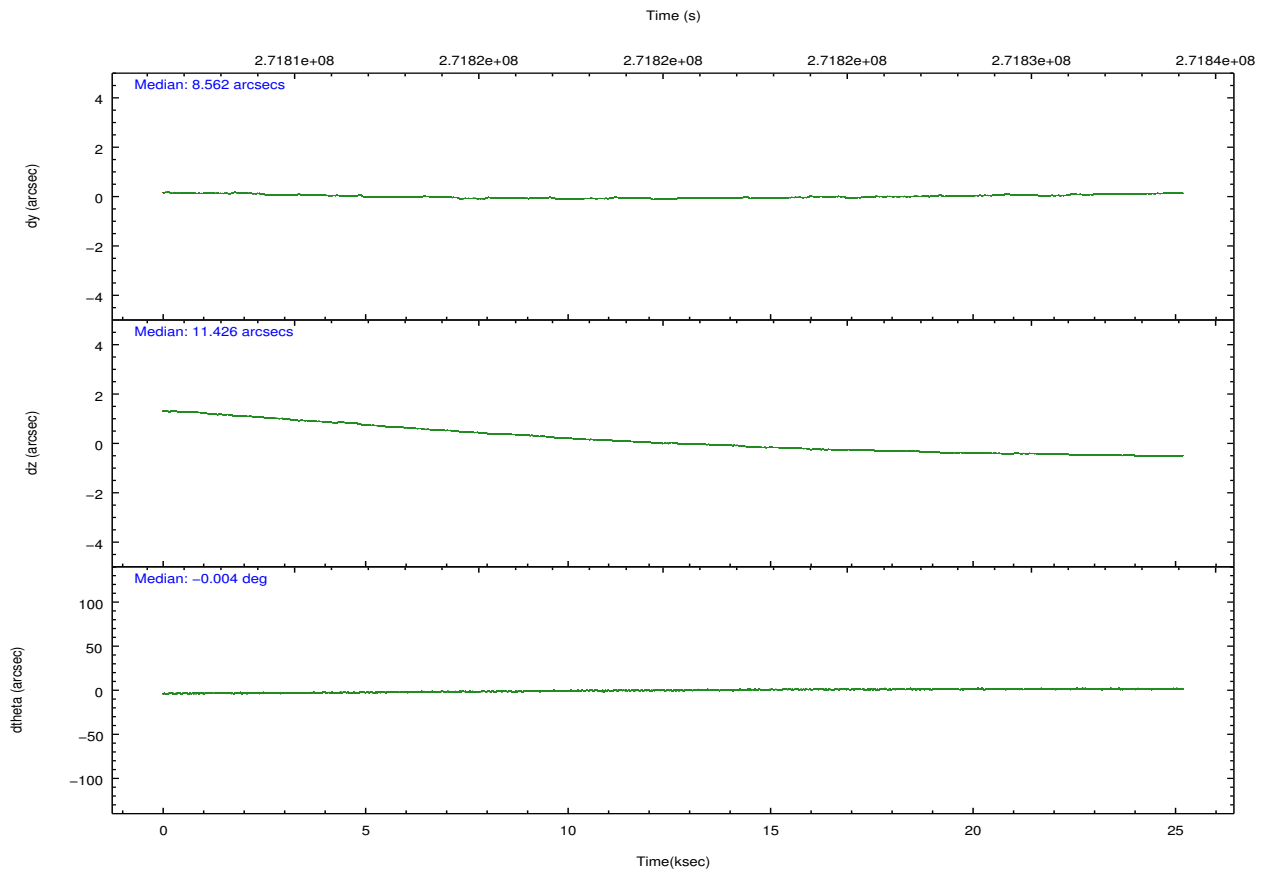
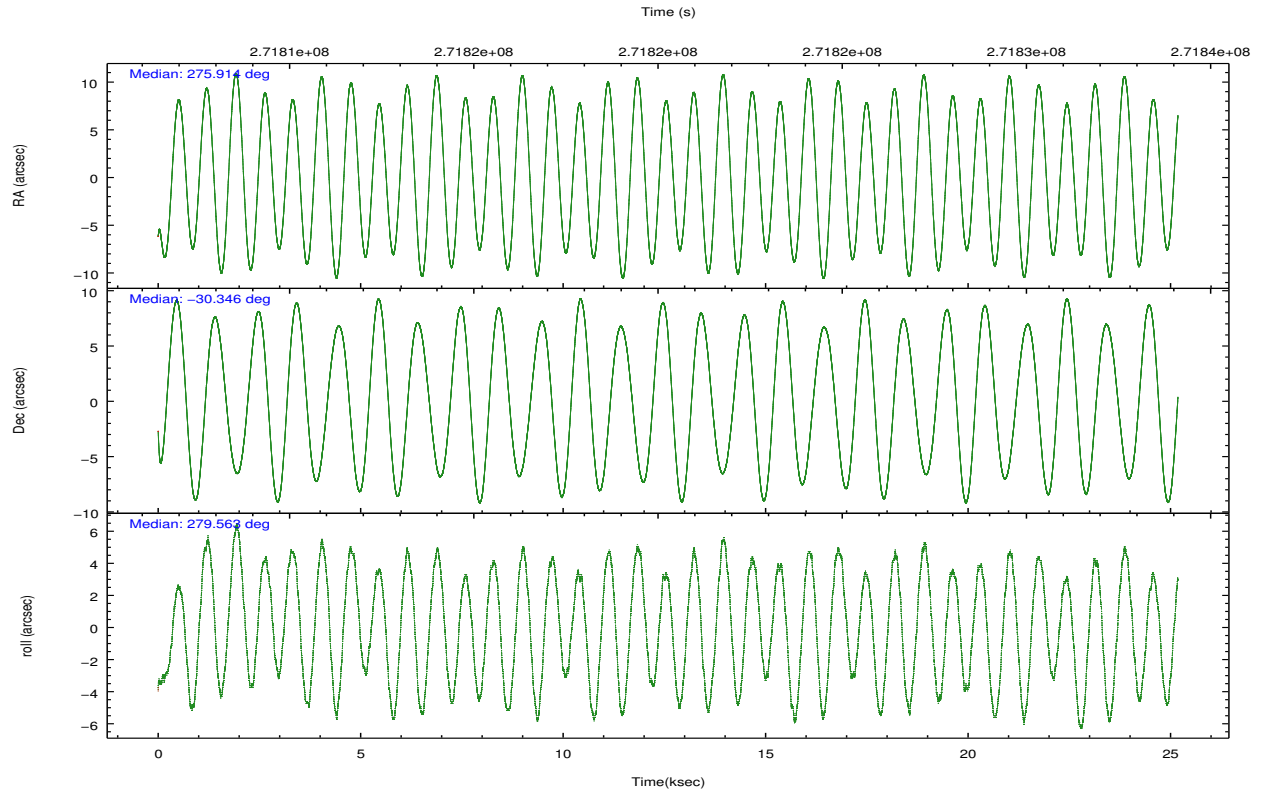
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	131327	683855	1446154	3042380	594225	146076	grade 0 events	31213	141061	292774	425850	332690	33213
rejected events	11168	33719	28169	193925	22424	13112		23%	20%	20%	13%	55%	22%
rejected %	8%	4%	1%	6%	3%	8%	grade 1 events	250	325	787	21576	1032	321
								0%	0%	0%	0%	0%	0%
							grade 2 events	64789	264435	966550	837883	163990	73674
								49%	38%	66%	27%	27%	50%
							grade 3 events	6621	25275	17628	224708	21686	6048
								5%	3%	1%	7%	3%	4%
							grade 4 events	6677	25208	17487	224373	21003	6258
								5%	3%	1%	7%	3%	4%
							grade 5 events	8985	23848	17393	154307	15697	10811
								6%	3%	1%	5%	2%	7%
							grade 6 events	12792	203703	133535	1153683	38127	15751
								9%	29%	9%	37%	6%	10%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	275.893496	275.9139078043589	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.325405	-30.34618565467511	Alternating exposures requested	N	N
[deg] Pointing Roll	279.404920	279.5718551254884	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-183.992523	-183.9875365069546			
[mm] SIM translation stage offset	-6.14	-6.144986076053243			
[s] Observation start time (MET)	271807863.184000	271806735.1928			
Observation start date	2006-08-12T22:09:58	2006-08-12T21:52:15			
[s] Observation end time (MET)	271832863.184000	271833902.81908			
Observation end date	2006-08-13T05:06:38	2006-08-13T05:25:02			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



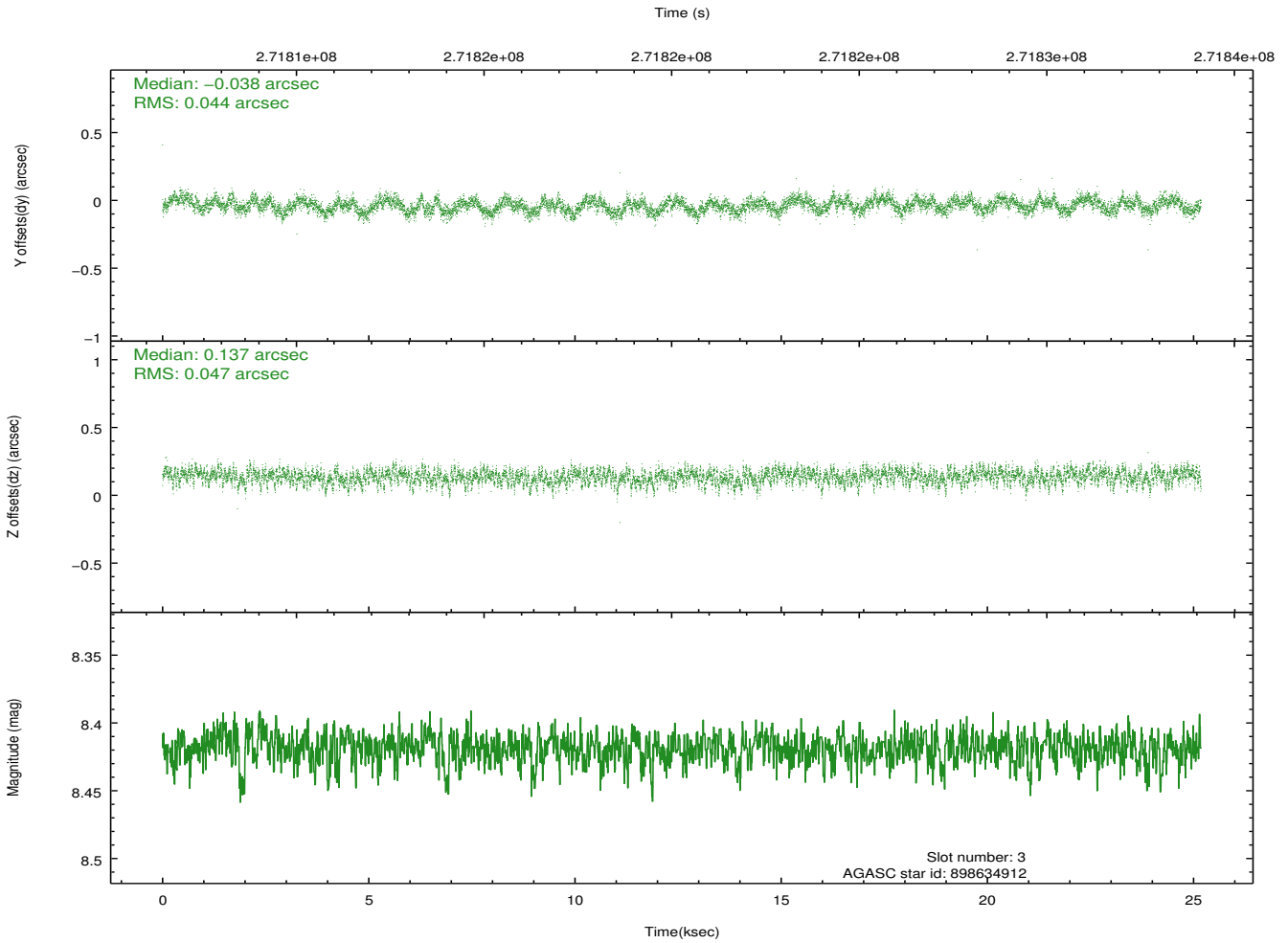
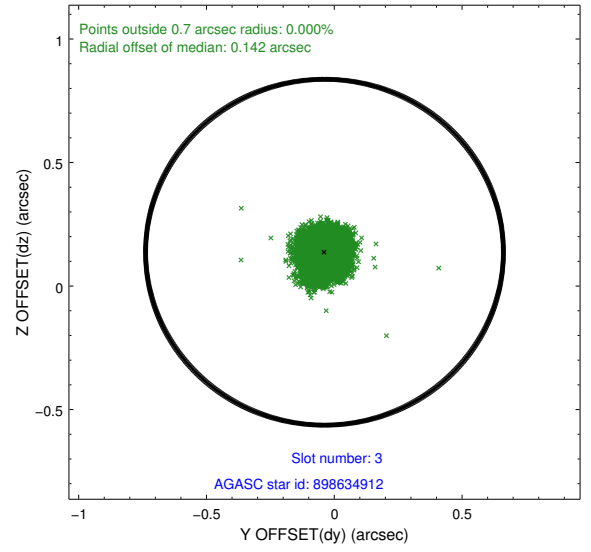
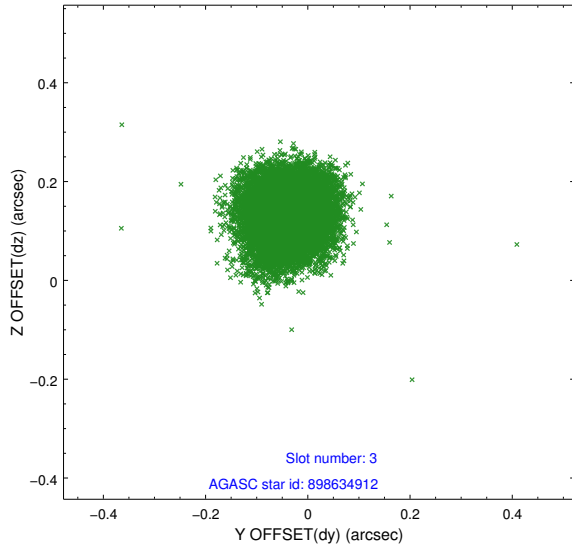


Slot Statistics

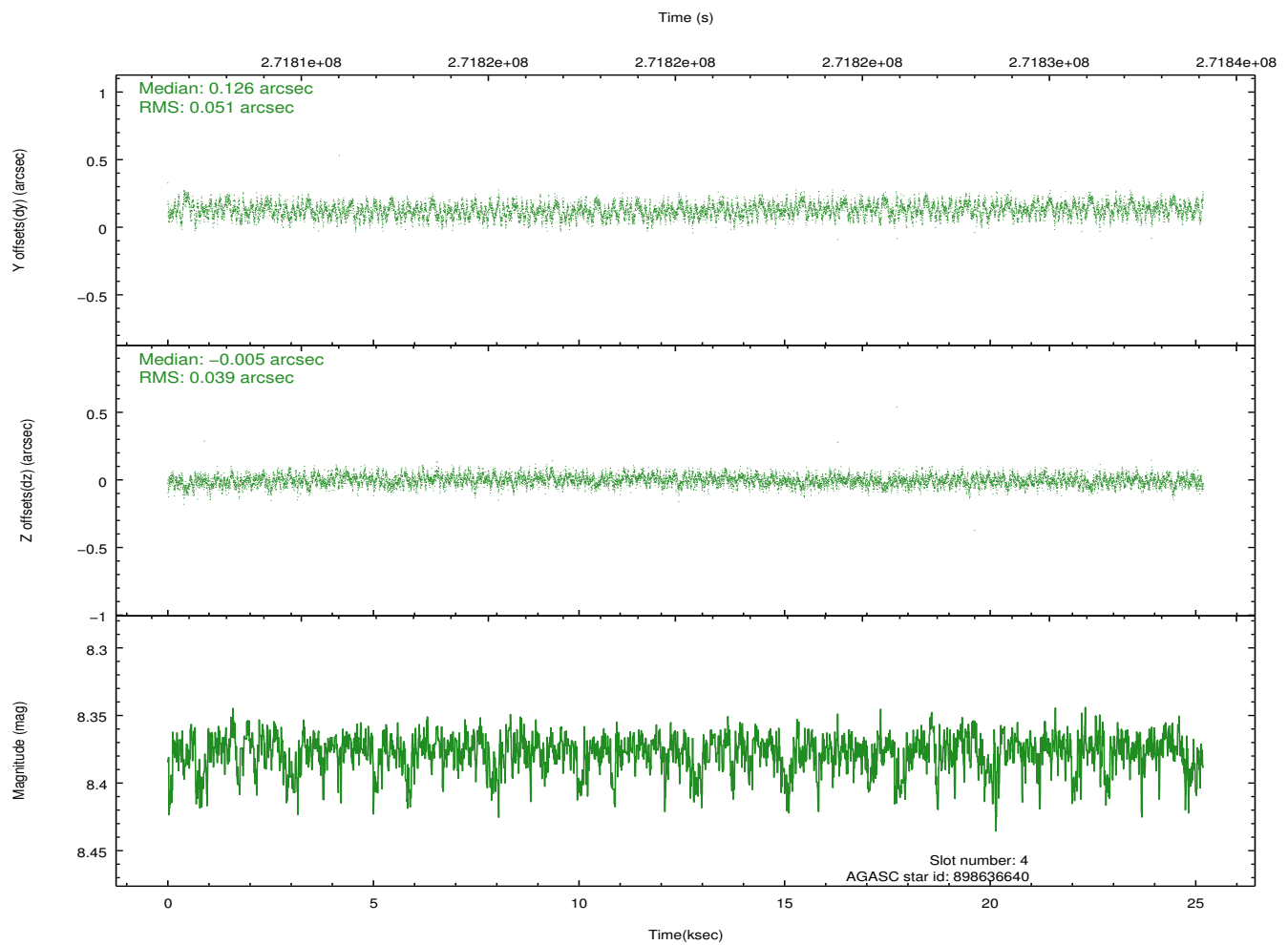
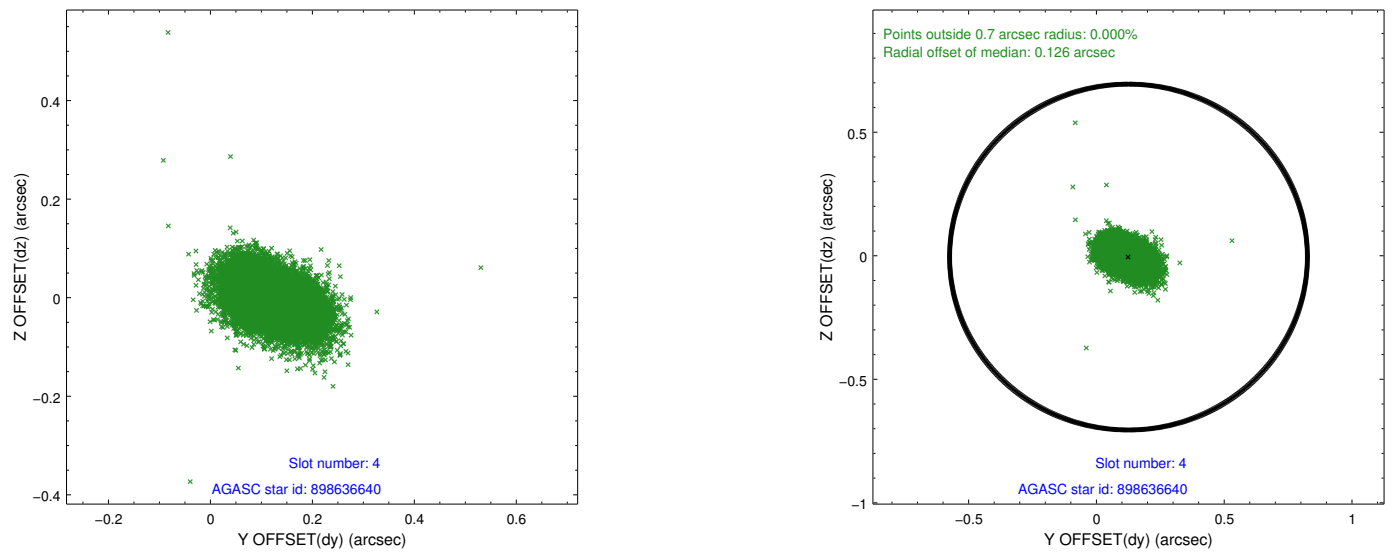
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	6142	-0.063	-0.136	0.020	0.060	0.000000	0.000000	-761.00	-1859.65
1	FID	ACIS-S-4	7.18	6143	0.136	0.064	0.017	0.025	0.000000	0.000000	2152.42	48.87
2	FID	ACIS-S-5	7.23	6141	-0.104	0.081	0.017	0.057	0.000000	0.000000	-1813.73	42.68
3	GUIDE	898634912	8.42	12280	-0.038	0.137	0.069	0.111	275.480072	-29.835888	-1946.83	-986.11
4	GUIDE	898636640	8.38	12280	0.126	-0.005	0.069	0.112	276.124088	-29.780374	-1817.18	1031.20
5	GUIDE	969019560	8.09	12283	-0.130	-0.012	0.059	0.094	275.384365	-30.637201	853.66	-1739.51
6	GUIDE	969026752	7.42	12283	0.203	-0.065	0.089	0.136	275.318545	-30.941468	1903.35	-2114.36
7	GUIDE	969026168	6.91	12282	-0.162	-0.059	0.067	0.111	276.670048	-30.393325	643.77	2337.77

2.4 Star Slots

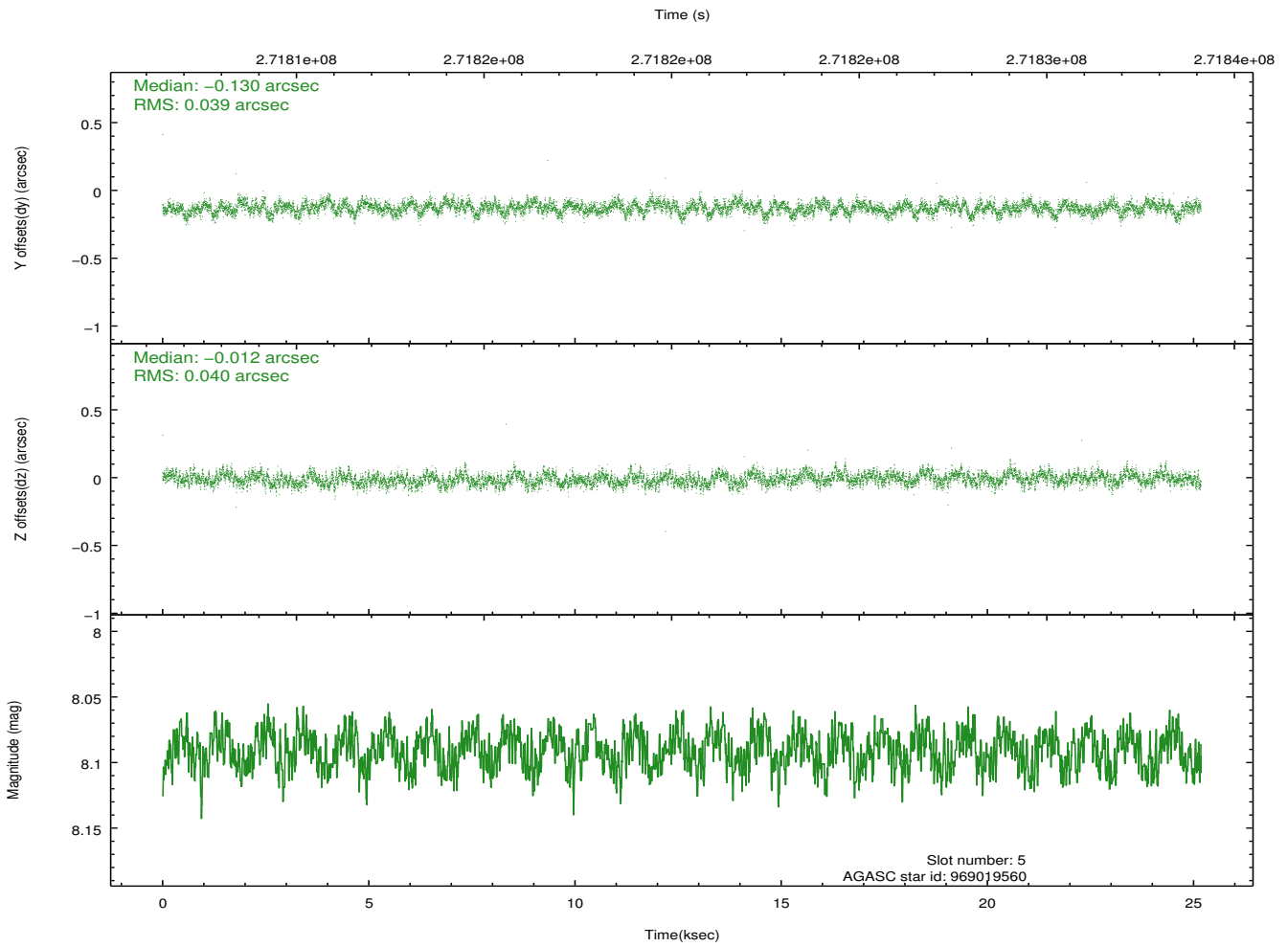
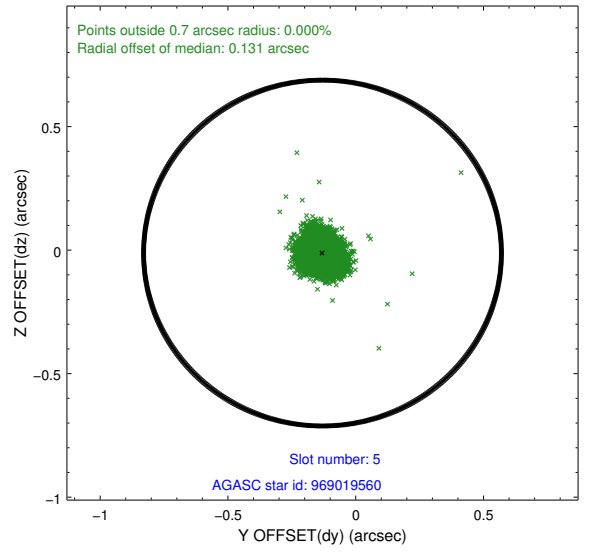
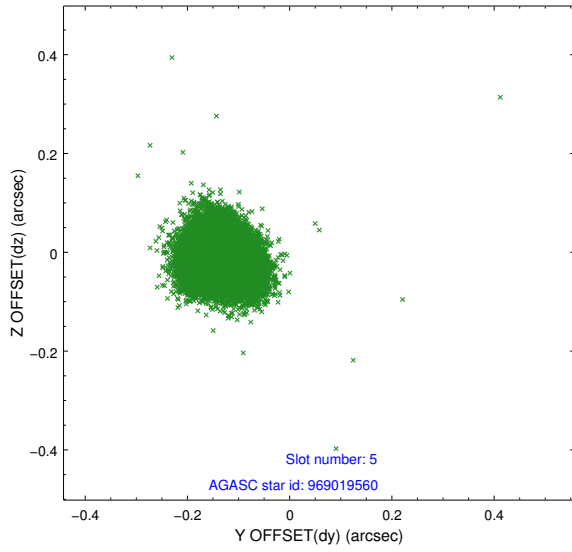
2.4.1 Slot 3



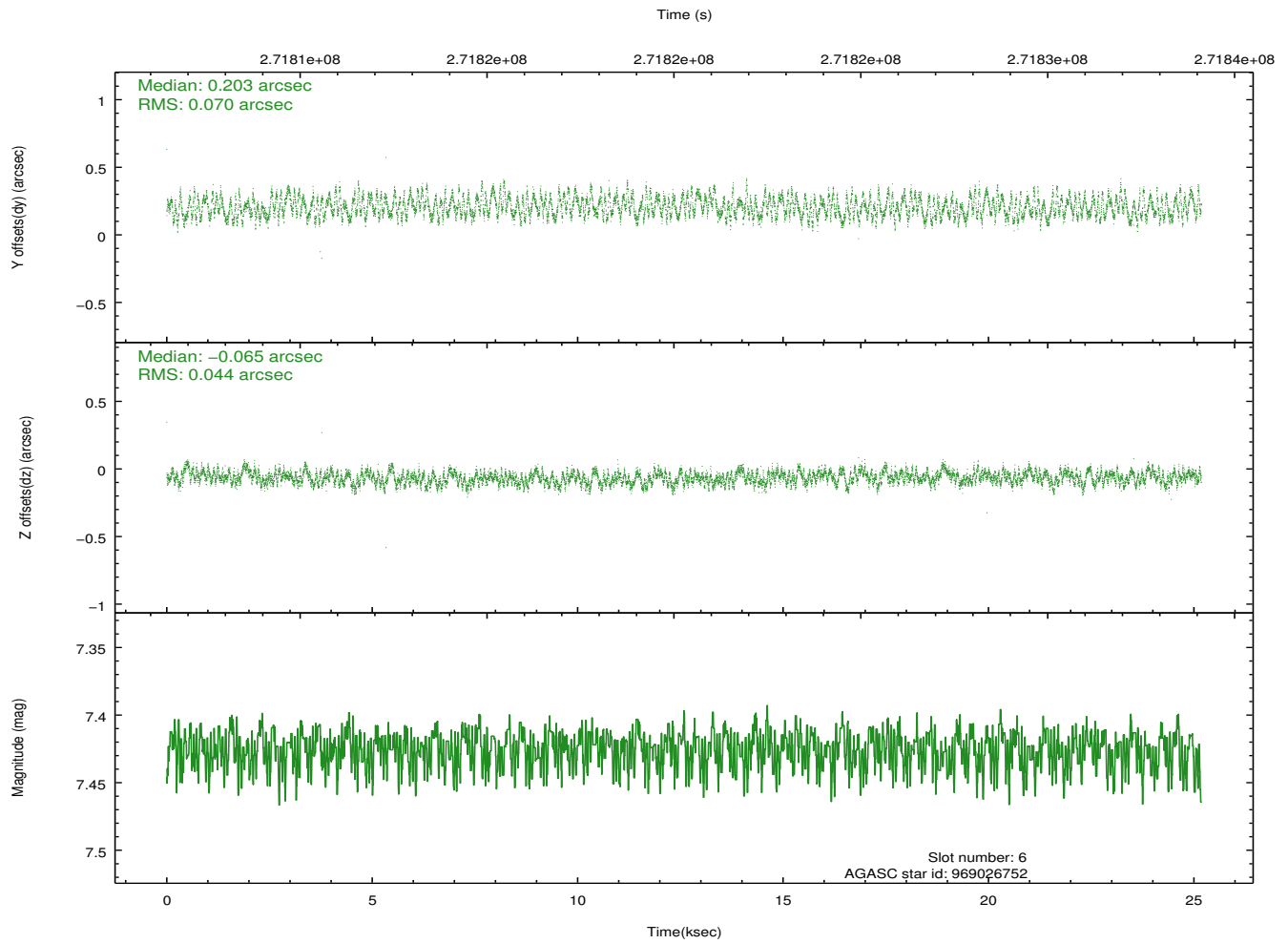
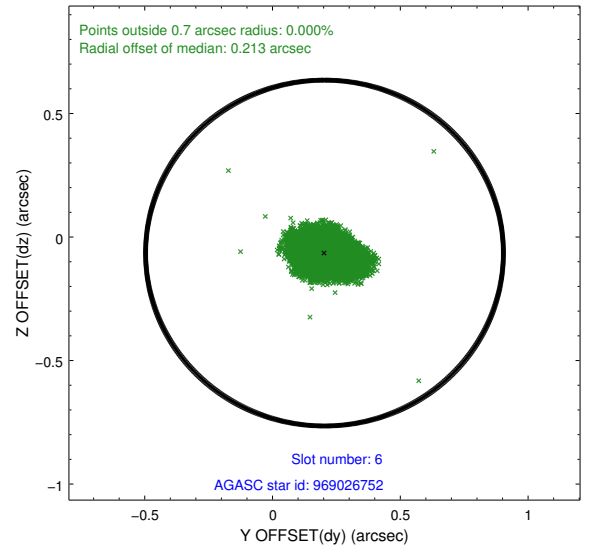
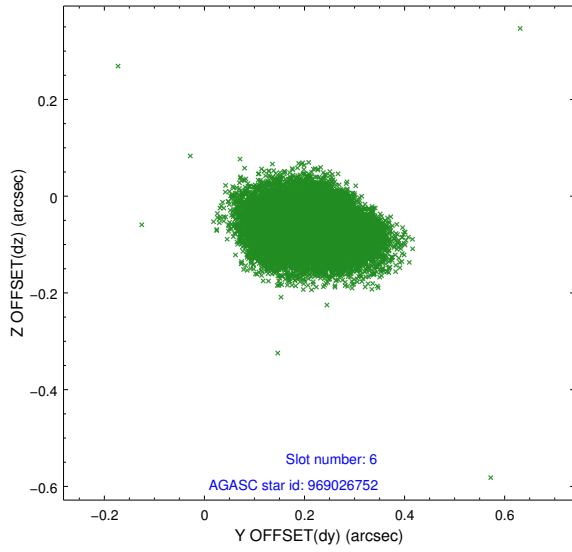
2.4.2 Slot 4



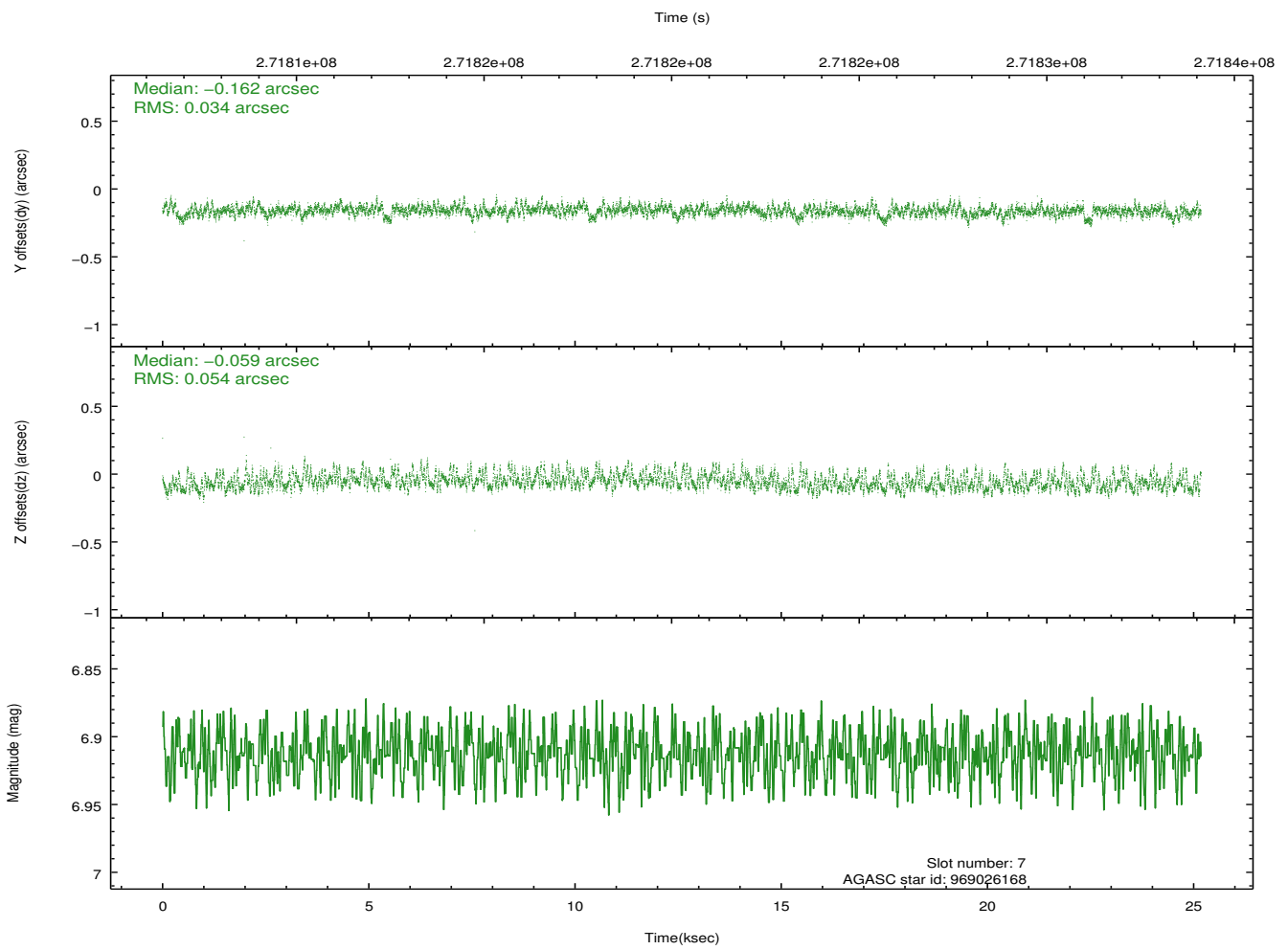
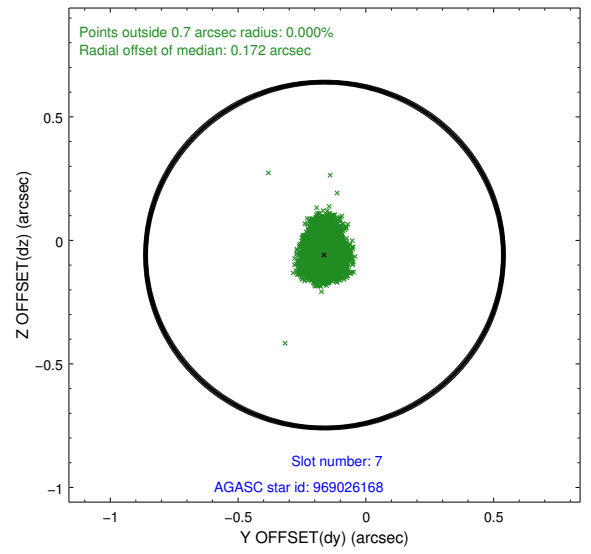
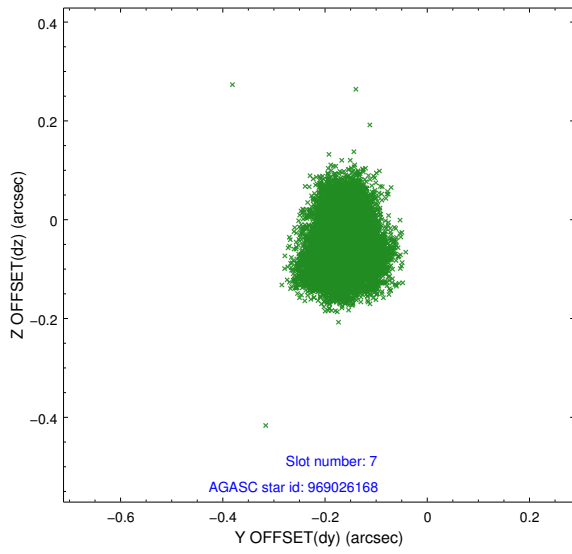
2.4.3 Slot 5



2.4.4 Slot 6

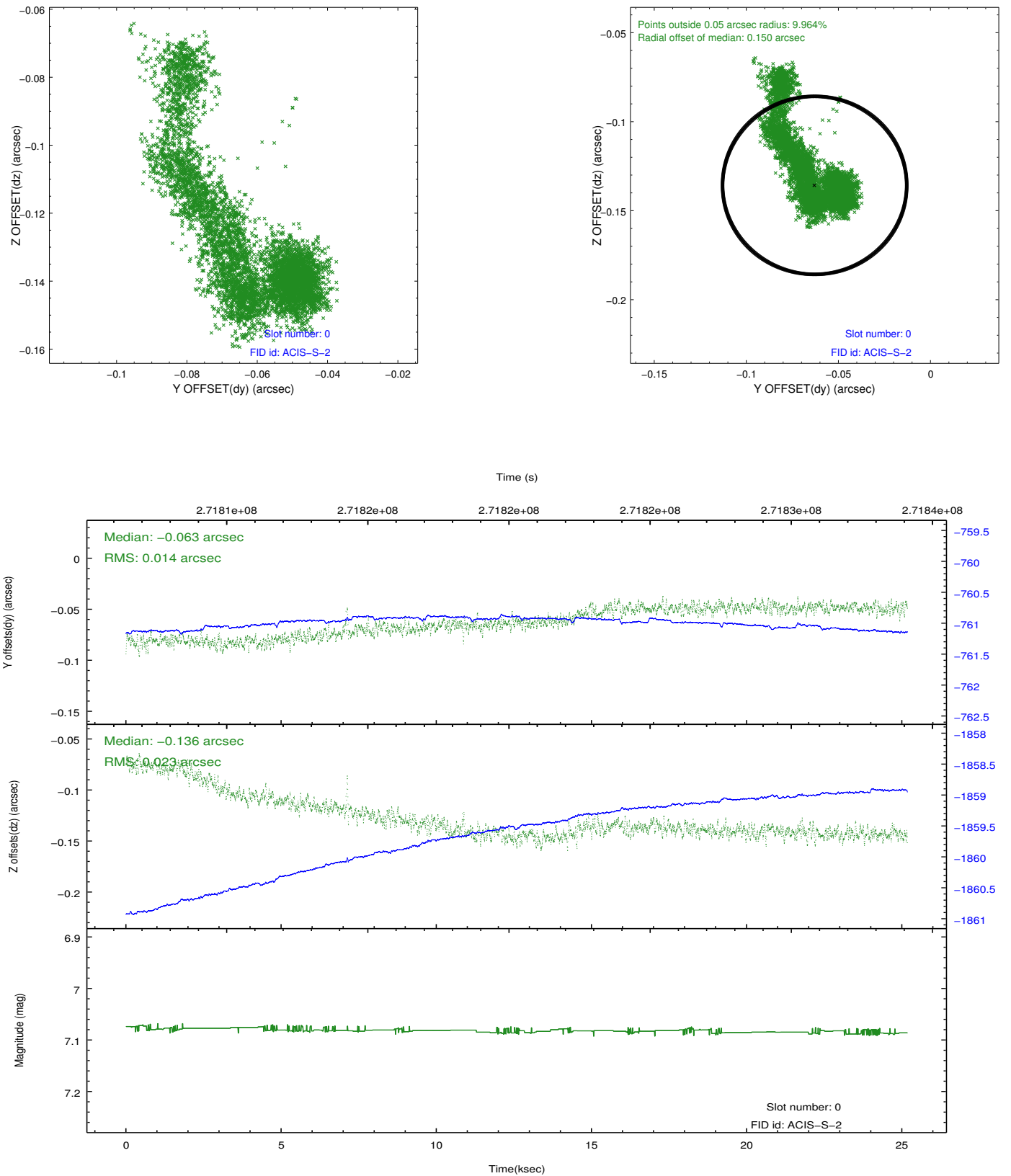


2.4.5 Slot 7

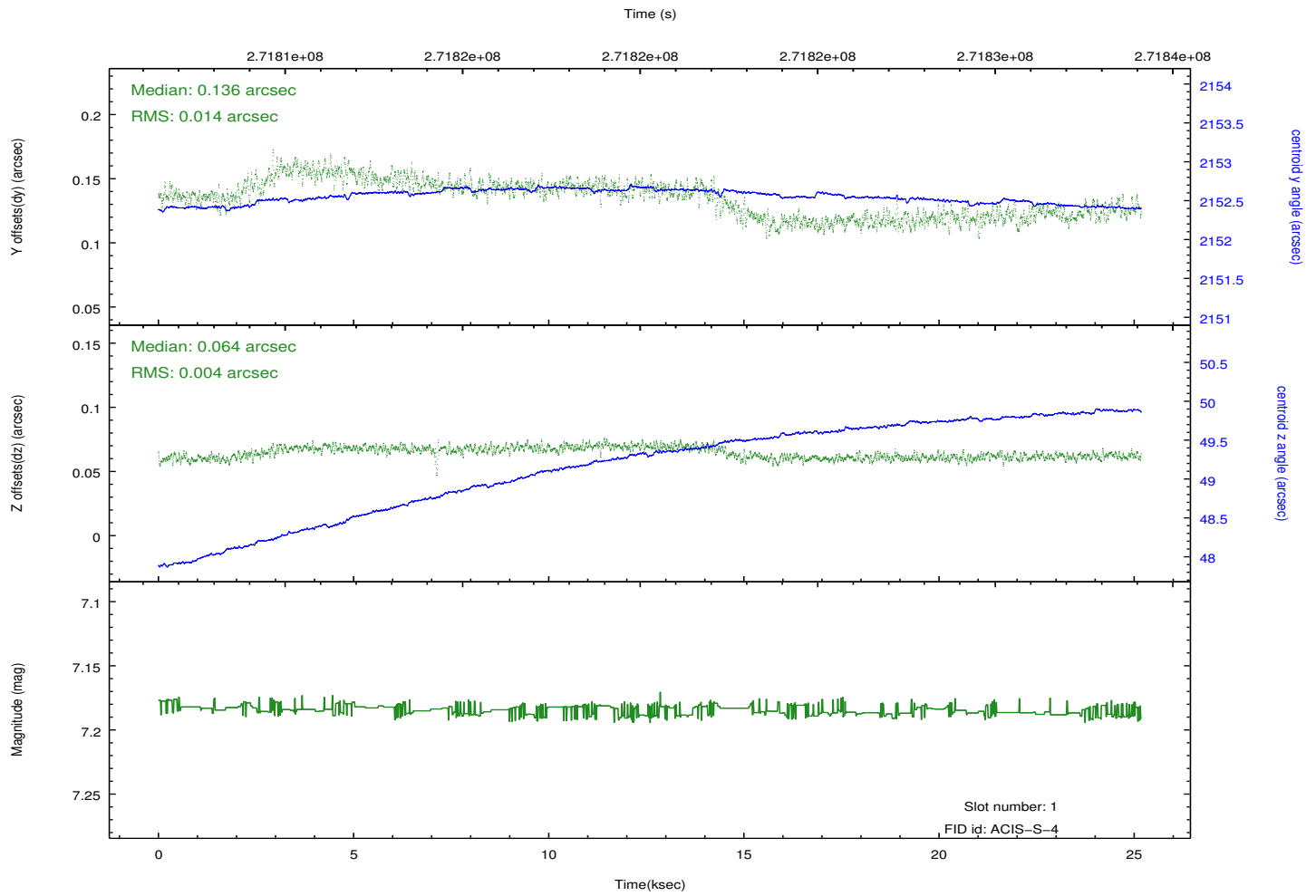
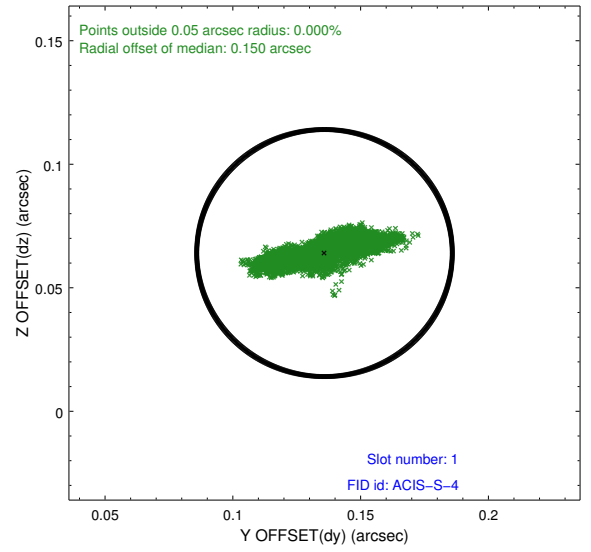
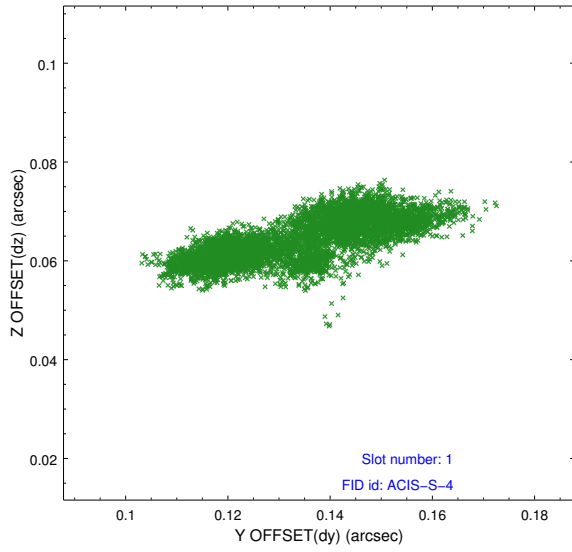


2.5 FID Slots

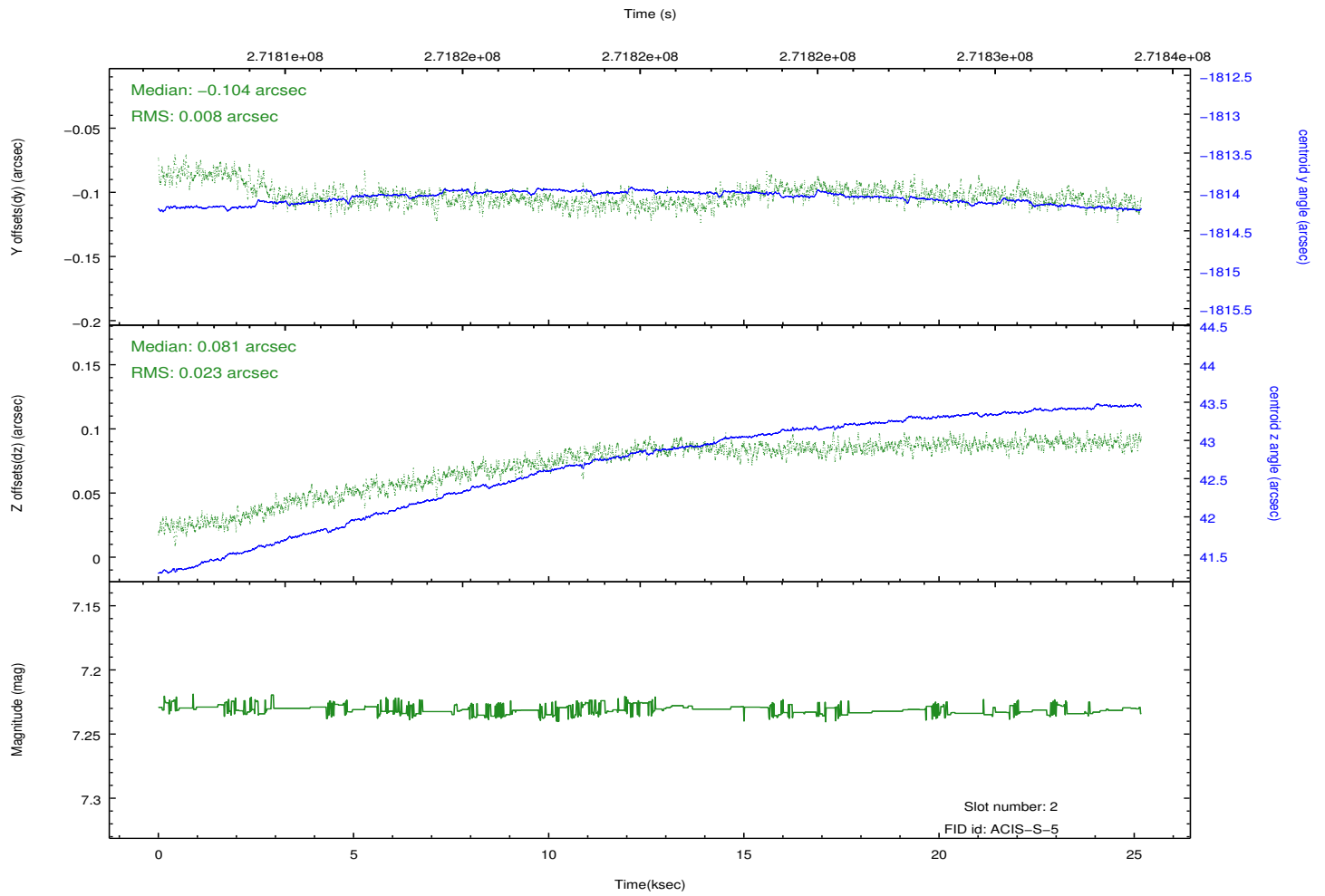
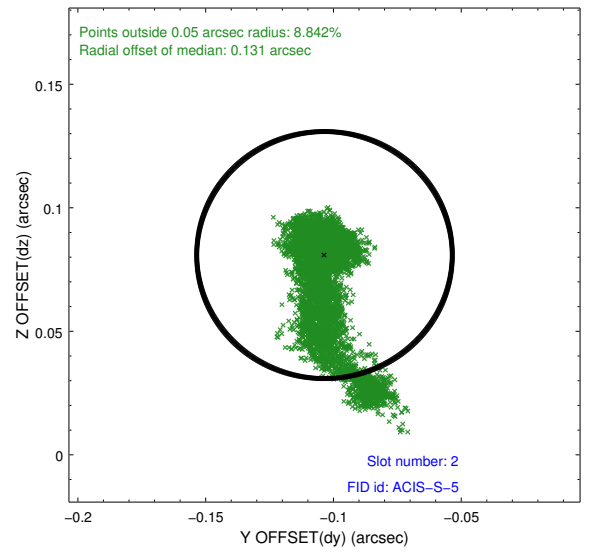
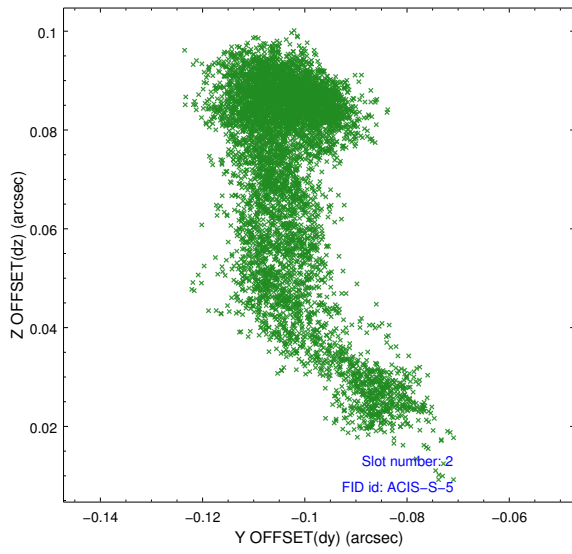
2.5.1 Slot 0



2.5.2 Slot 1

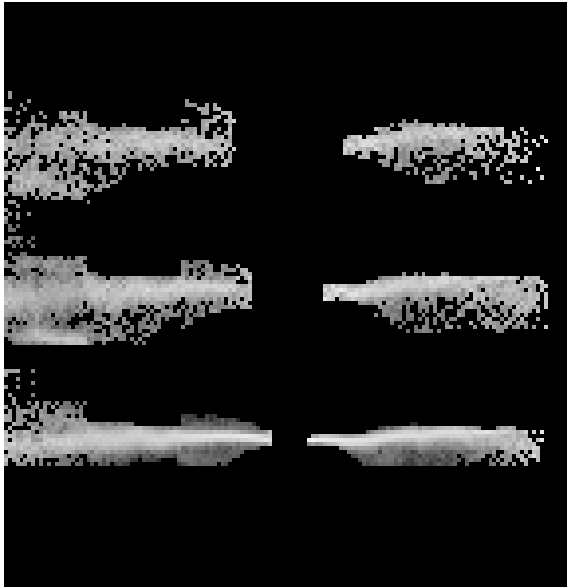


2.5.3 Slot 2



3 Gratings

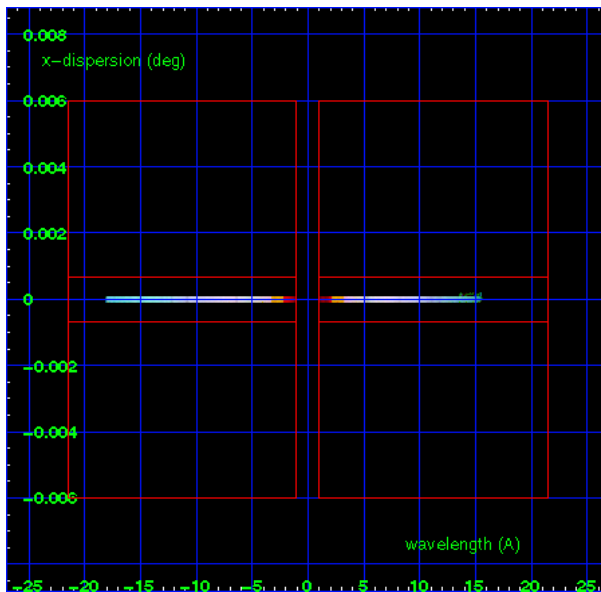
3.1 HEG Arm



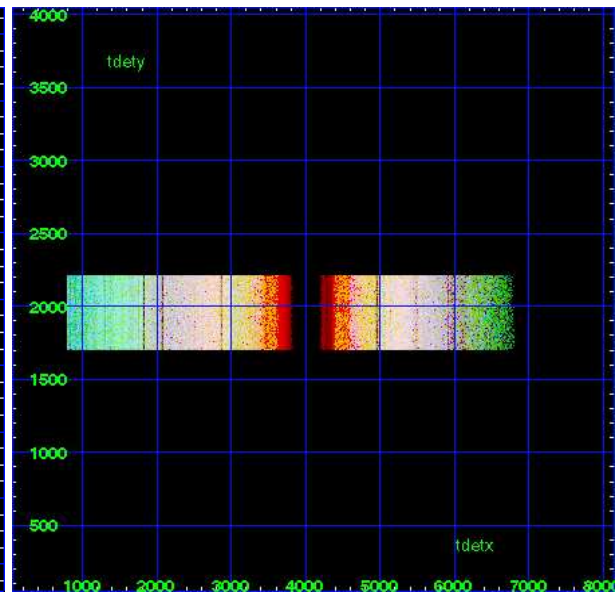
HEG Order Sort 123



HEG Order Sort ALL

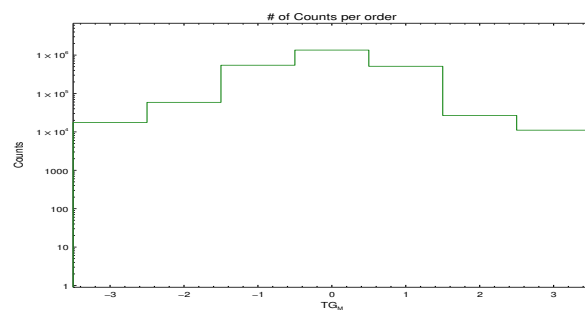


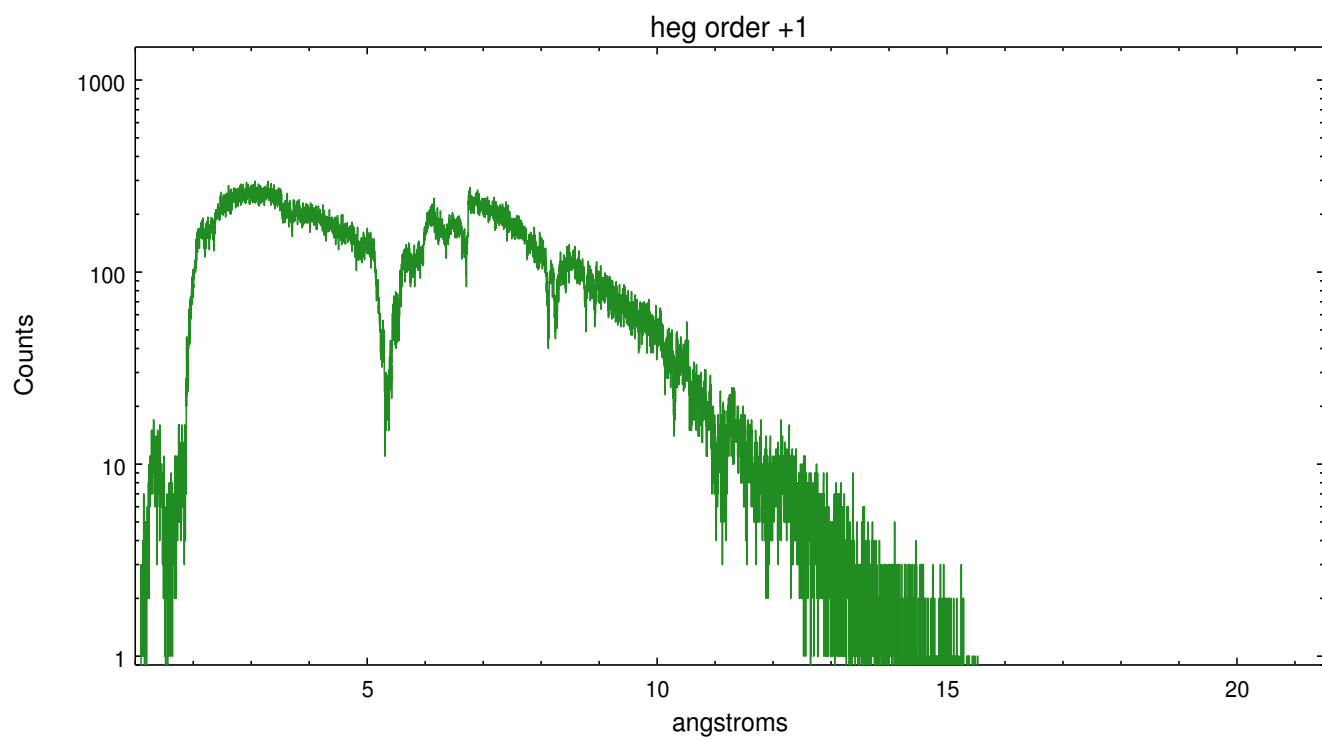
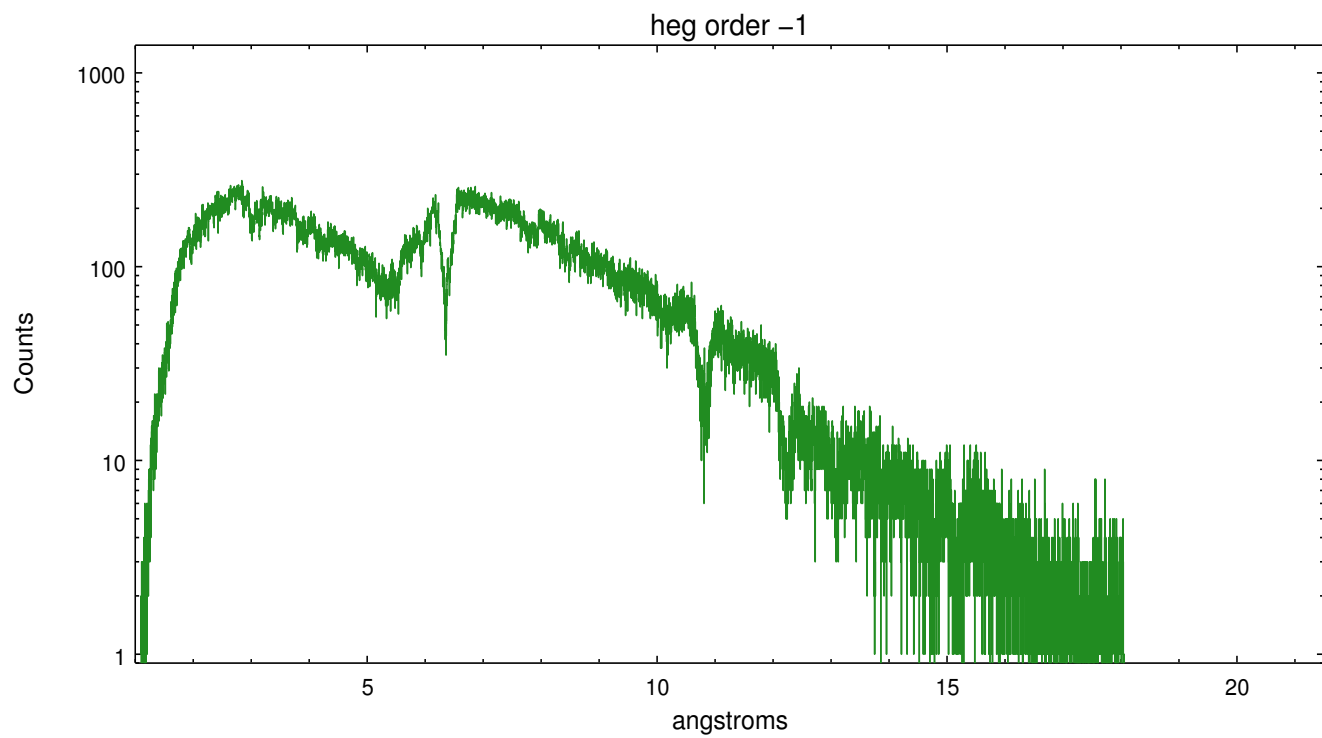
Spot Image HEG



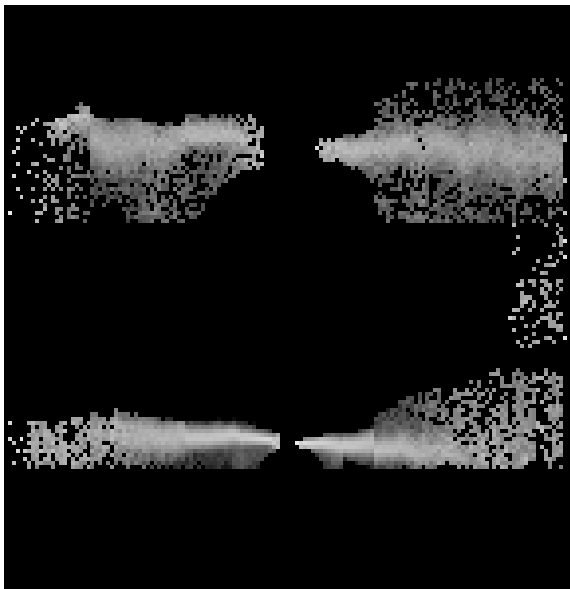
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	17624	58745	544353	1350441	510762	26699	11080

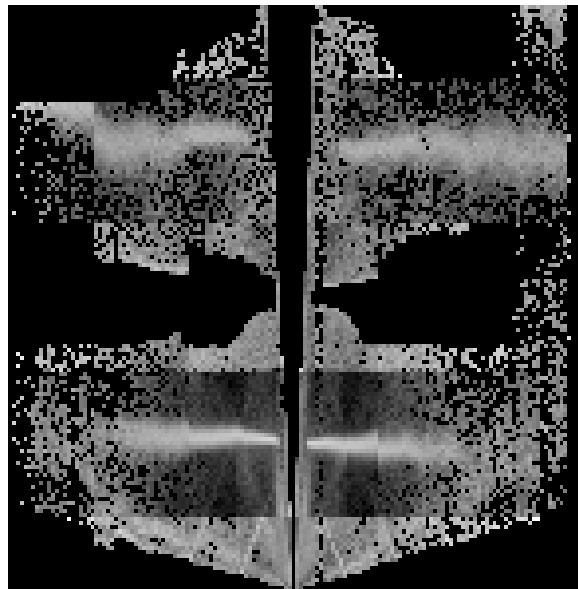




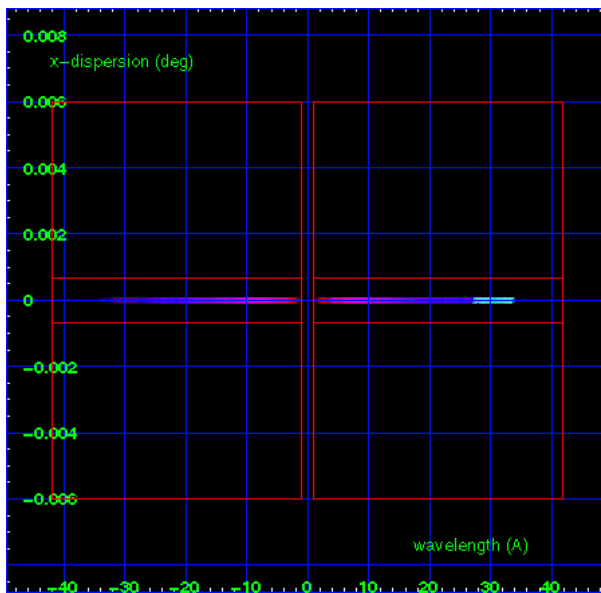
3.2 MEG Arm



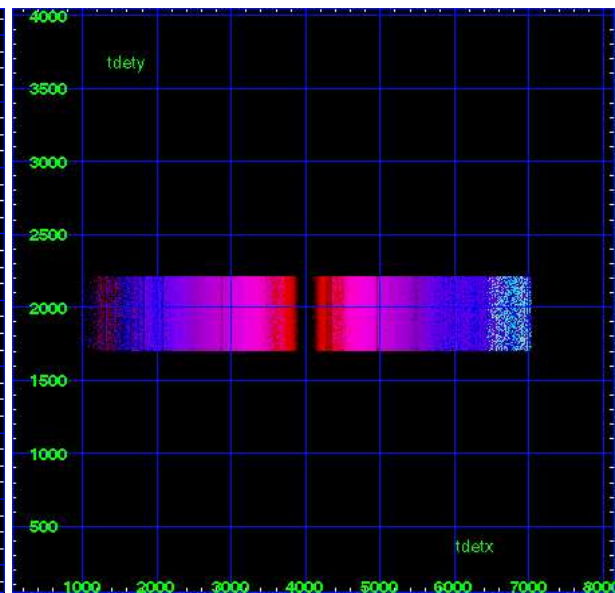
MEG Order Sort 123



MEG Order Sort ALL

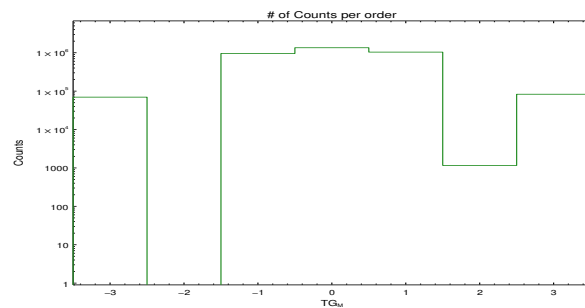


Spot Image MEG

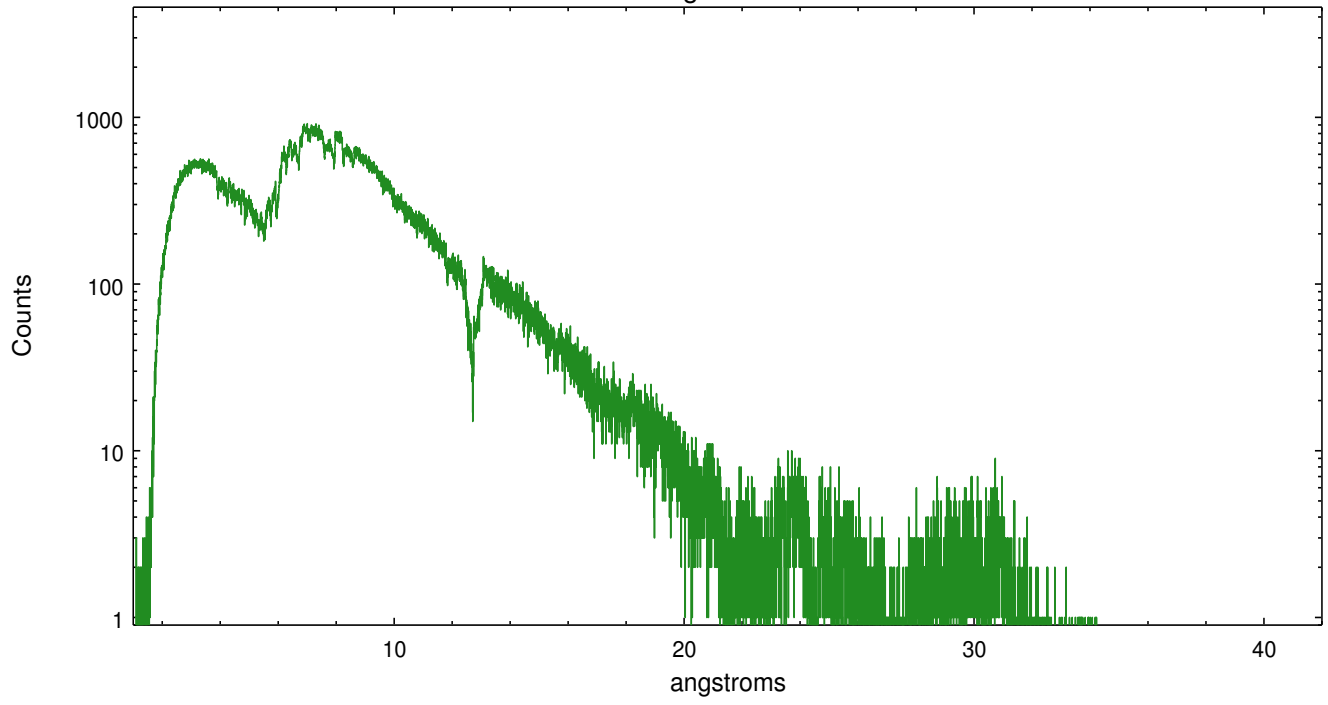


Full Detector MEG

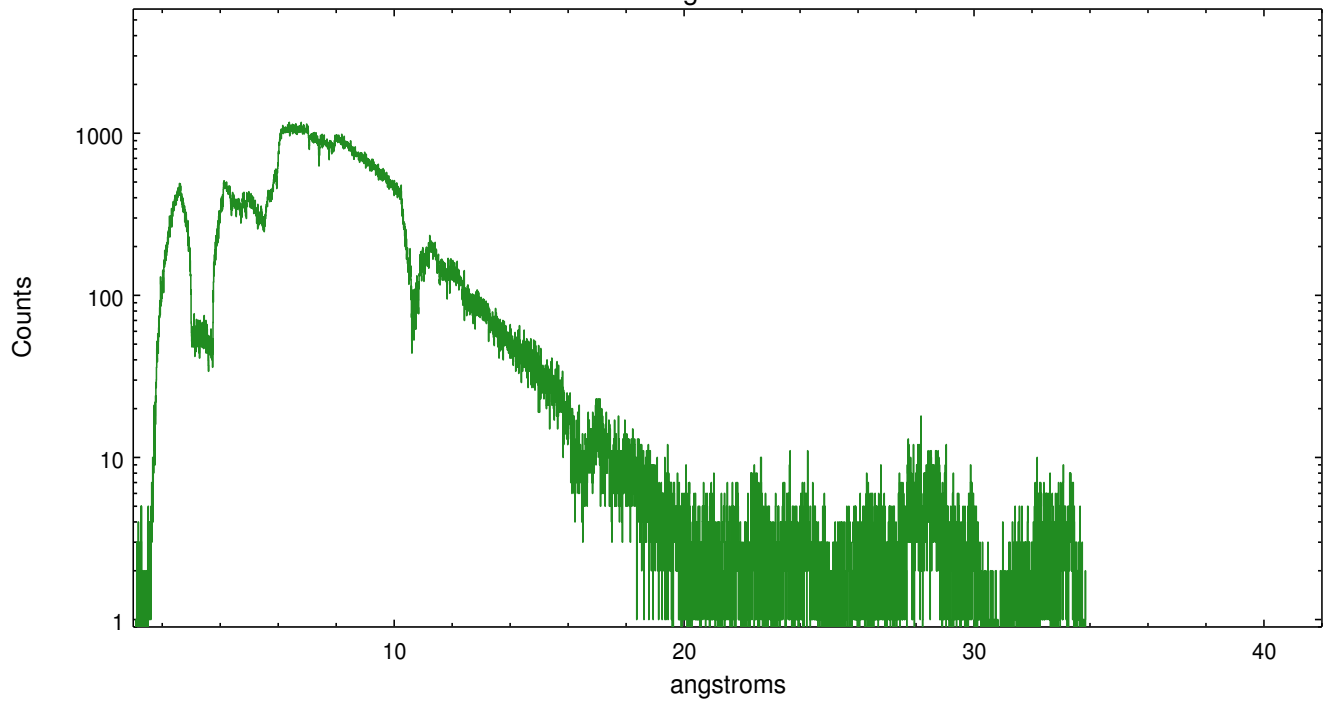
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	69716	0	954577	1350441	1037568	1162	82968



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.178

A.2 Comments