

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6629 - L2 Version 3
Chandra X-Ray Center

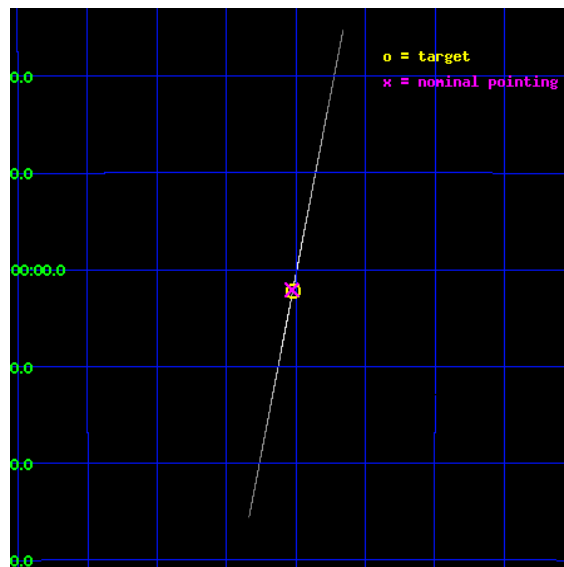
L2 Processing Date : Mar 31 2012

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1 Front

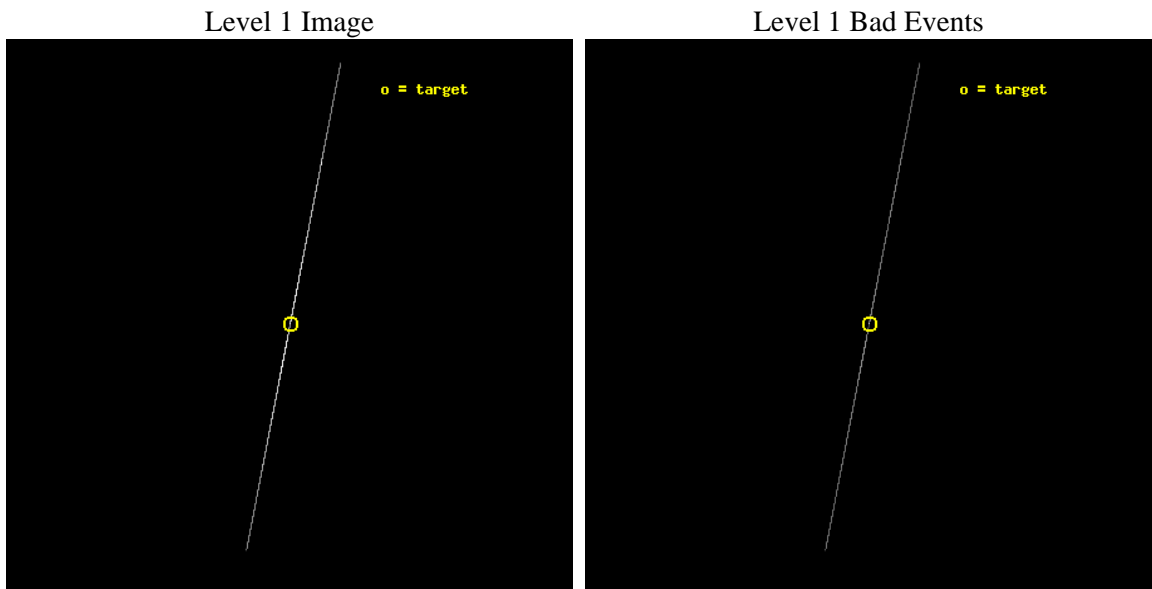
seq_num	400534	Sequence number
obs_id	6629	Observation id
title	CHAZSS: The Chandra HETGS Atoll/Z Spectroscopic Survey	Proposal ti
observer	Dr Jon Miller	Principal investigator
object	GX 17+2	Source name
ra_targ	274.005833	Observer's specified target RA [deg]
dec_targ	-14.036389	Observer's specified target Dec [deg]
ra_nom	274.00728949666	Nominal RA [deg]
dec_nom	-14.034857349341	Nominal Dec [deg]
roll_nom	101.01897278983	Nominal Roll [deg]
revision	3	Processing version of data
ontime	23676.750793099	Sum of GTIs [s]
livetime	23584.263485314	Livetime [s]
ontime4	23730.75	Sum of GTIs [s]
ontime5	23730.75	Sum of GTIs [s]
ontime6	23730.75	Sum of GTIs [s]
ontime7	23676.750793099	Sum of GTIs [s]
ontime8	23694.26489085	Sum of GTIs [s]
ontime9	23730.75	Sum of GTIs [s]
l2events	4732339	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	24064.297000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	23676.750793099	Sum of GTIs [s]
caldbver	4.4.8	 	ontime4	23730.75	Sum of GTIs [s]
date	2012-03-31T13:16:31	Date and time of file creation	ontime5	23730.75	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	23730.75	Sum of GTIs [s]
			ontime7	23676.750793099	Sum of GTIs [s]
			ontime8	23694.26489085	Sum of GTIs [s]
			ontime9	23730.75	Sum of GTIs [s]
			l1events	5211542	Number of level 1 events

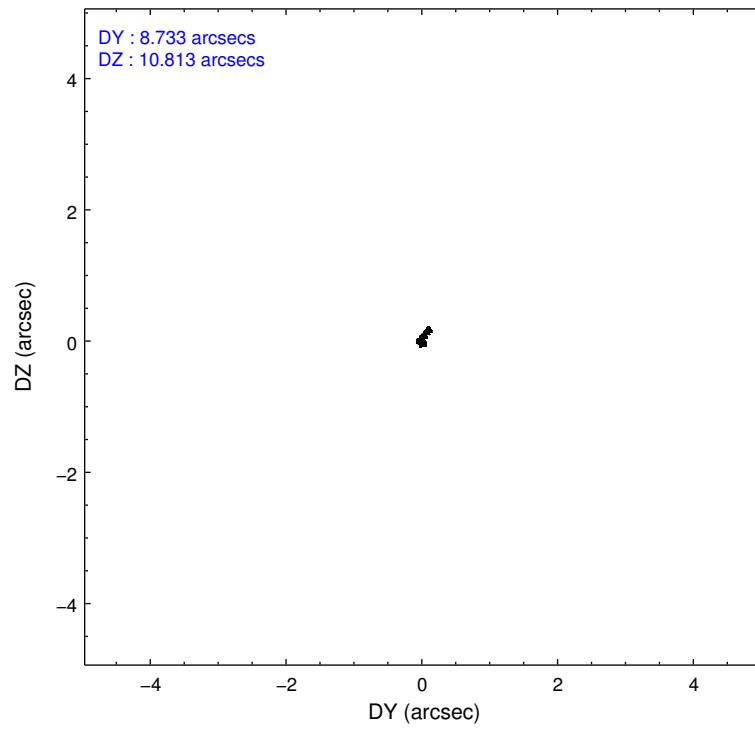
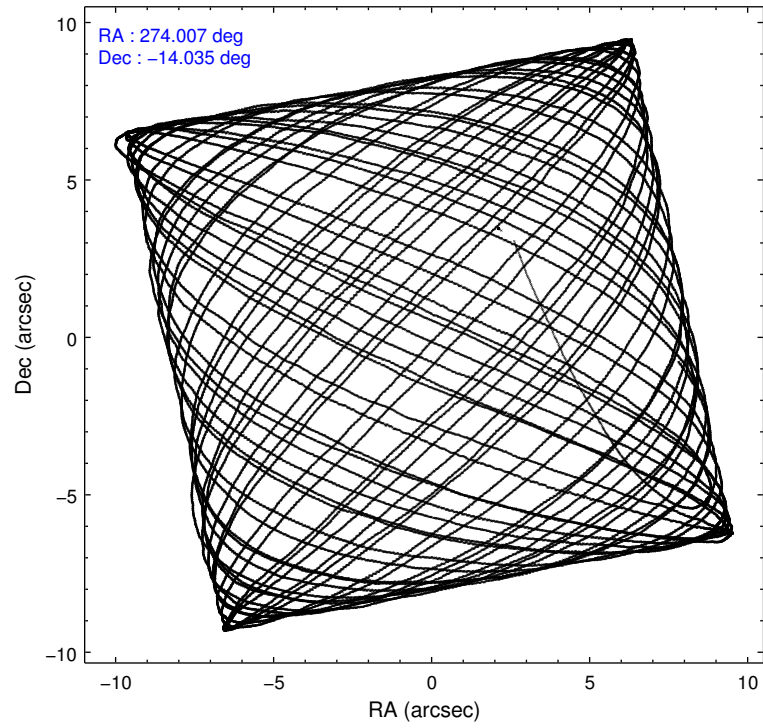
2.1.3 Events

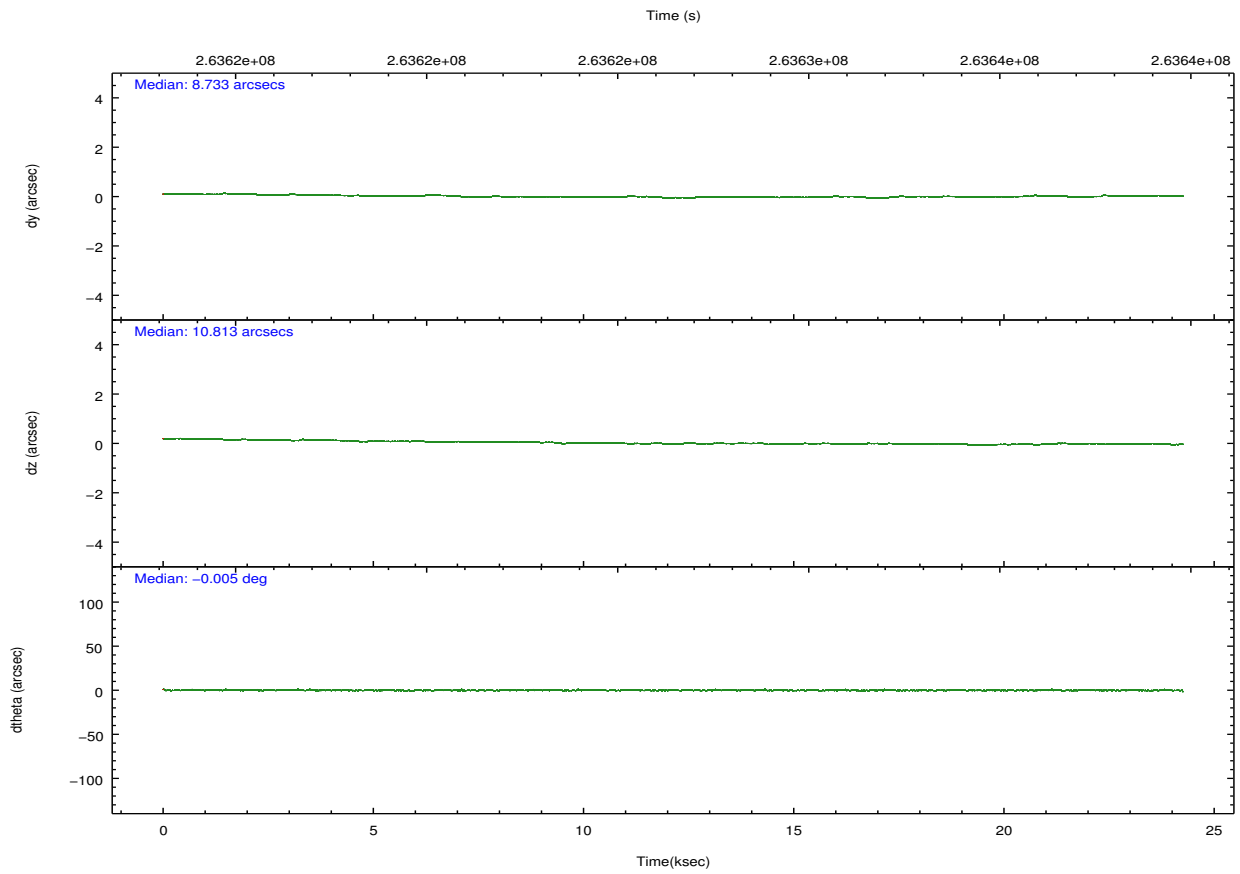
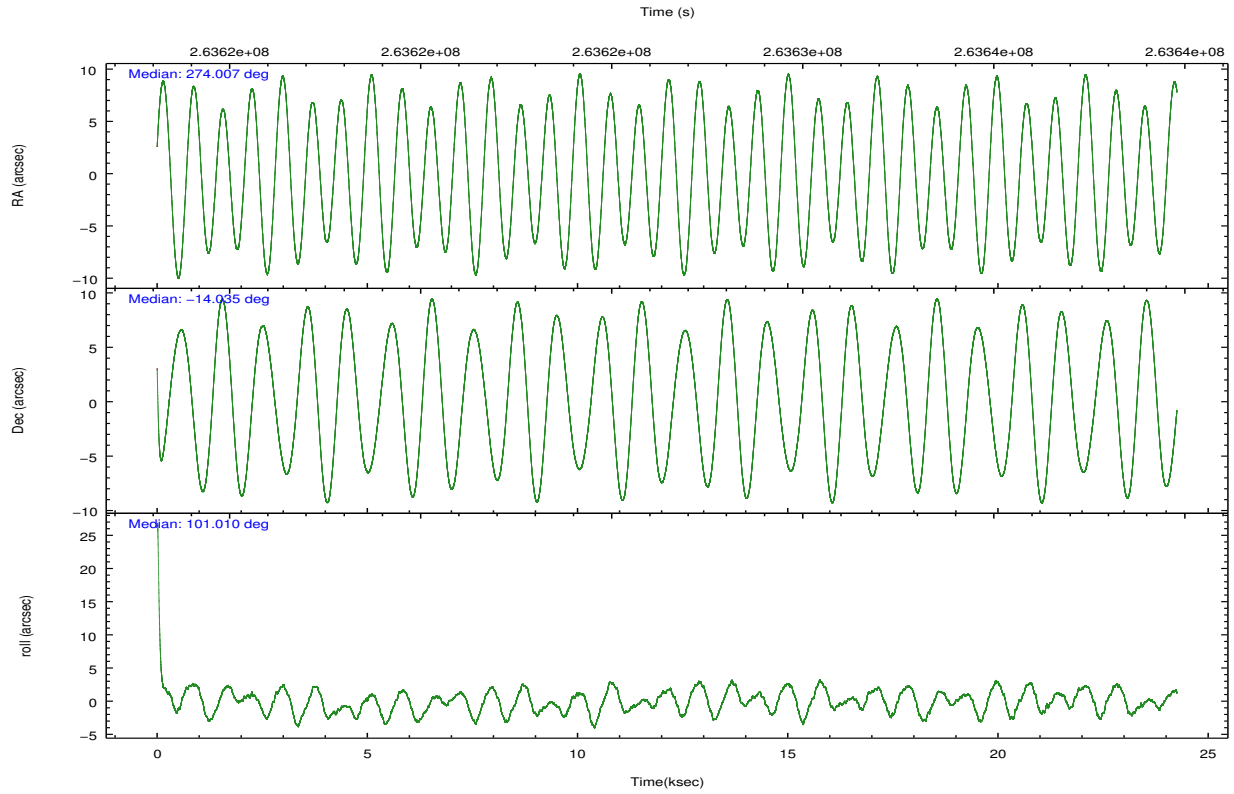
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	80625	437323	1749951	2351629	493925	98089	grade 0 events	5730	94148	374727	337345	237055	10818
rejected events	7998	19332	20791	49434	15464	9800		7%	21%	21%	14%	47%	11%
rejected %	9%	4%	1%	2%	3%	9%	grade 1 events	168	257	1482	2943	1152	181
								0%	0%	0%	0%	0%	0%
							grade 2 events	45017	153214	1117731	700695	161395	53234
								55%	35%	63%	29%	32%	54%
							grade 3 events	5225	11068	24727	189669	19447	4889
								6%	2%	1%	8%	3%	4%
							grade 4 events	5251	10631	24465	188970	19214	5222
								6%	2%	1%	8%	3%	5%
							grade 5 events	7822	19008	19008	46275	14274	9609
								9%	4%	1%	1%	2%	9%
							grade 6 events	11412	148997	187811	885732	41388	14136
								14%	34%	10%	37%	8%	14%
							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	274.025992	274.0072894966551	Subarray requested	NONE	NONE
[deg] Pointing Dec	-14.055154	-14.03485734934114	Alternating exposures requested	N	N
[deg] Pointing Roll	100.866873	101.0189727898288	[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	-182.632523	-182.6398635053184			
[mm] SIM translation stage offset	-7.5	-7.49265907768941			
[s] Observation start time (MET)	263614513.184000	263613648.94697			
Observation start date	2006-05-10T02:14:08	2006-05-10T02:00:48			
[s] Observation end time (MET)	263638578.184000	263638787.07314			
Observation end date	2006-05-10T08:55:13	2006-05-10T08:59:47			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



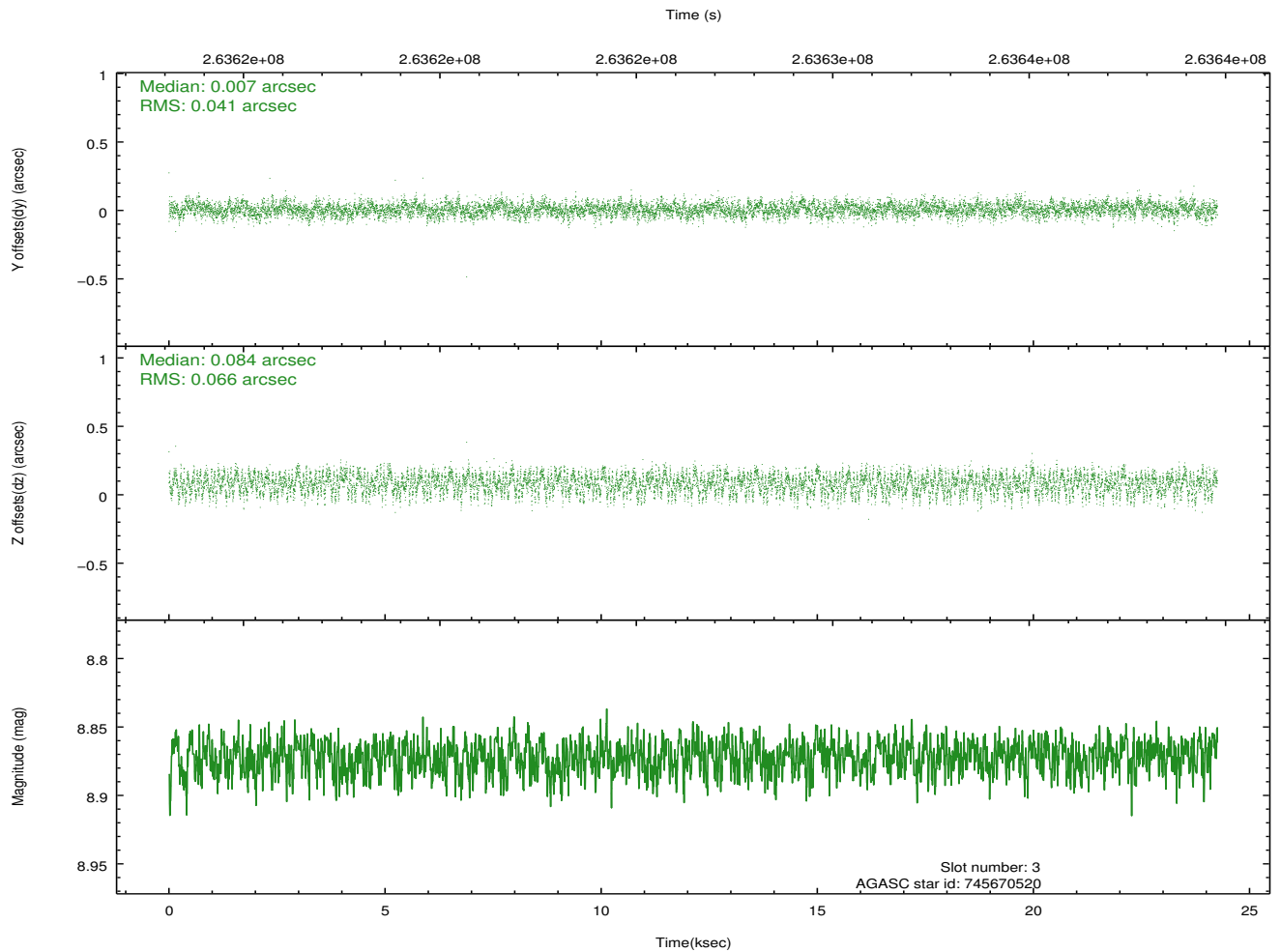
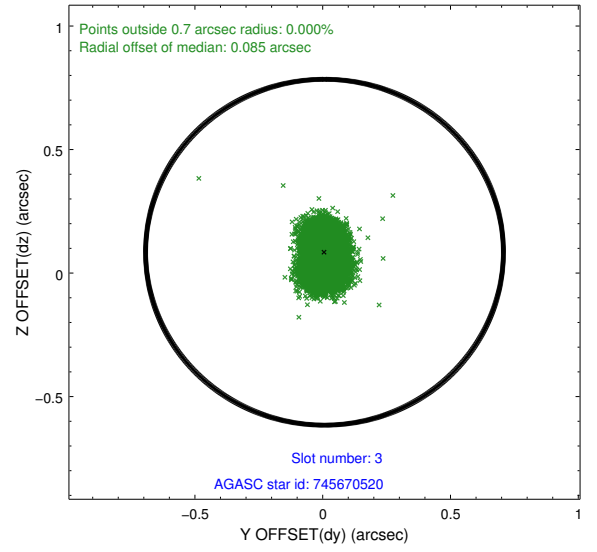
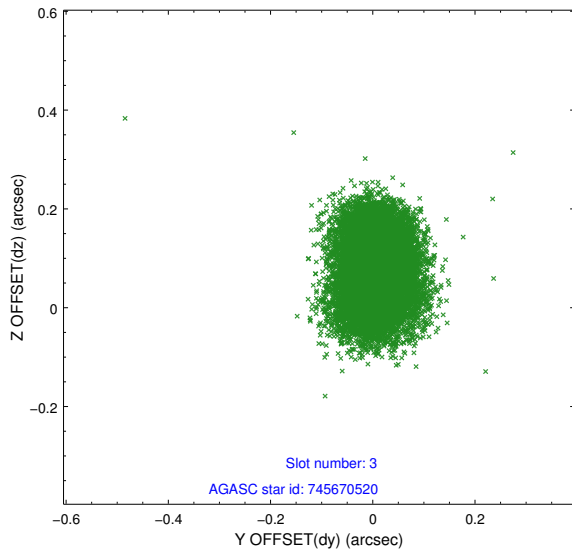


Slot Statistics

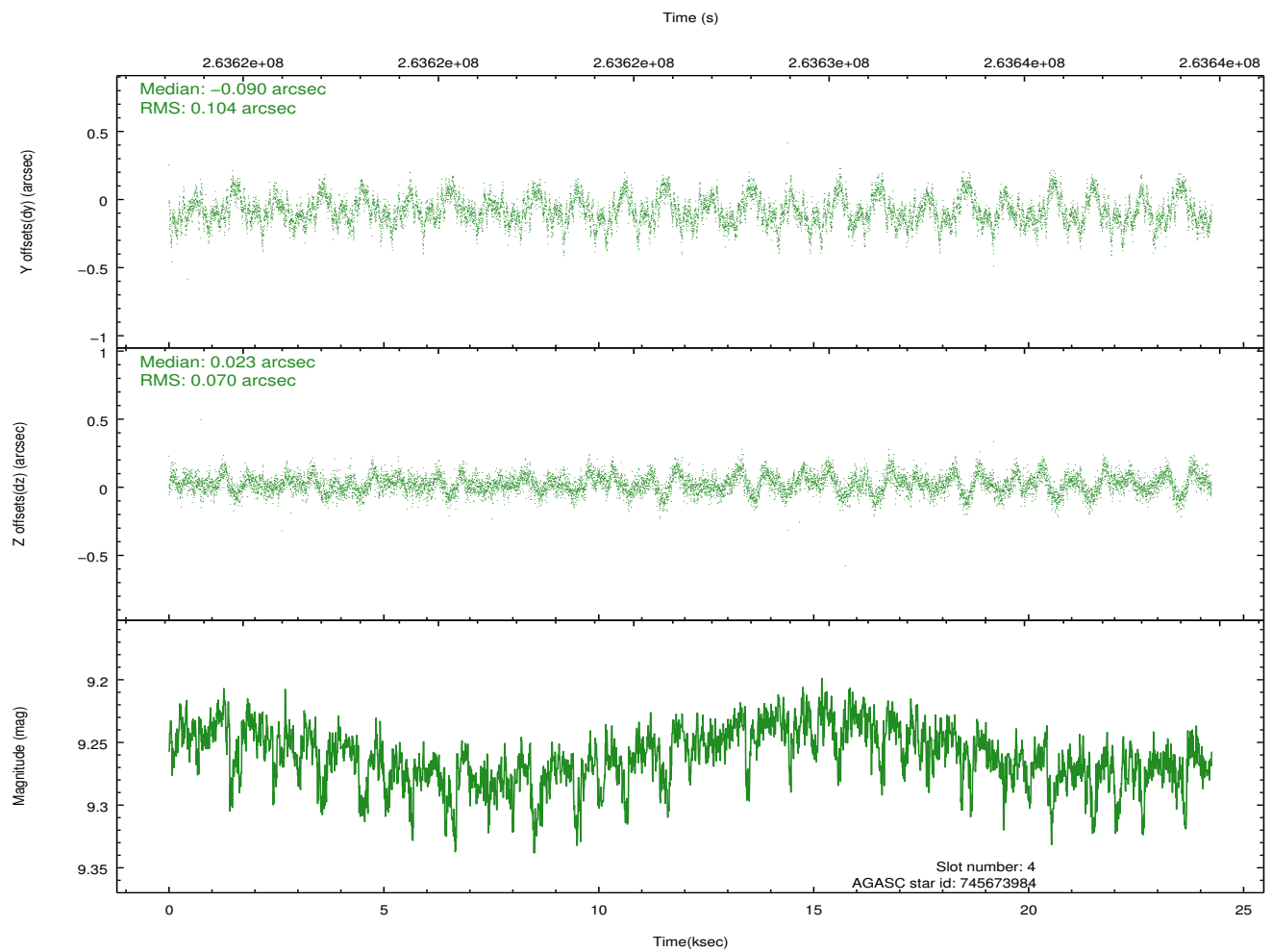
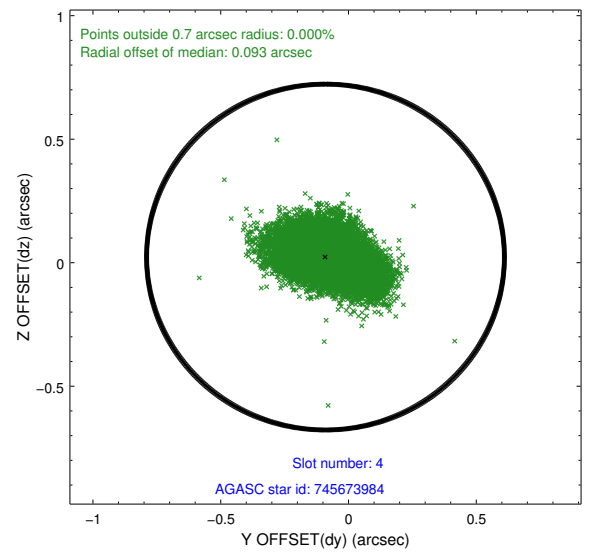
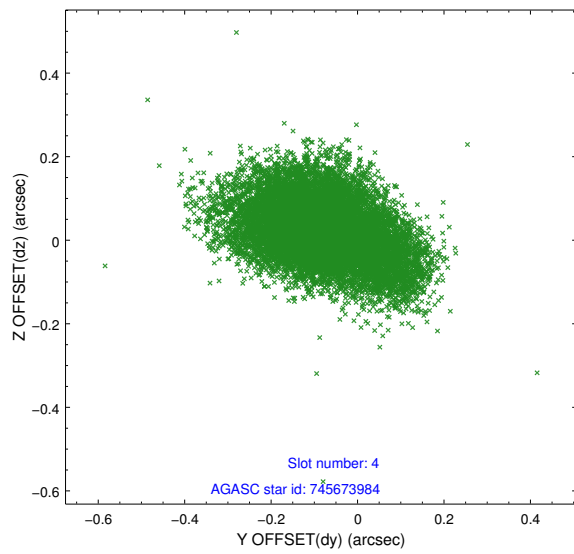
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	5916	0.030	0.053	0.007	0.012	0.000000	0.000000	935.05	-1882.07
1	FID	ACIS-S-4	7.18	5917	0.087	-0.047	0.006	0.011	0.000000	0.000000	2152.58	21.82
2	FID	ACIS-S-5	7.23	5916	-0.144	0.006	0.006	0.012	0.000000	0.000000	-1813.83	15.61
3	GUIDE	745670520	8.87	11831	0.007	0.084	0.083	0.134	274.614741	-13.988466	-153.72	-2064.15
4	GUIDE	745673984	9.26	11825	-0.090	0.023	0.132	0.227	274.591997	-13.386956	1987.16	-2399.39
5	GUIDE	745675656	7.97	11826	-0.111	0.123	0.075	0.122	274.656383	-13.977352	-142.17	-2214.74
6	GUIDE	745676944	8.92	11826	0.034	-0.009	0.082	0.127	274.121102	-14.245583	-735.40	-196.64
7	GUIDE	745680576	8.68	11796	0.159	-0.216	0.067	0.109	274.063292	-14.644899	-2109.04	272.44

2.4 Star Slots

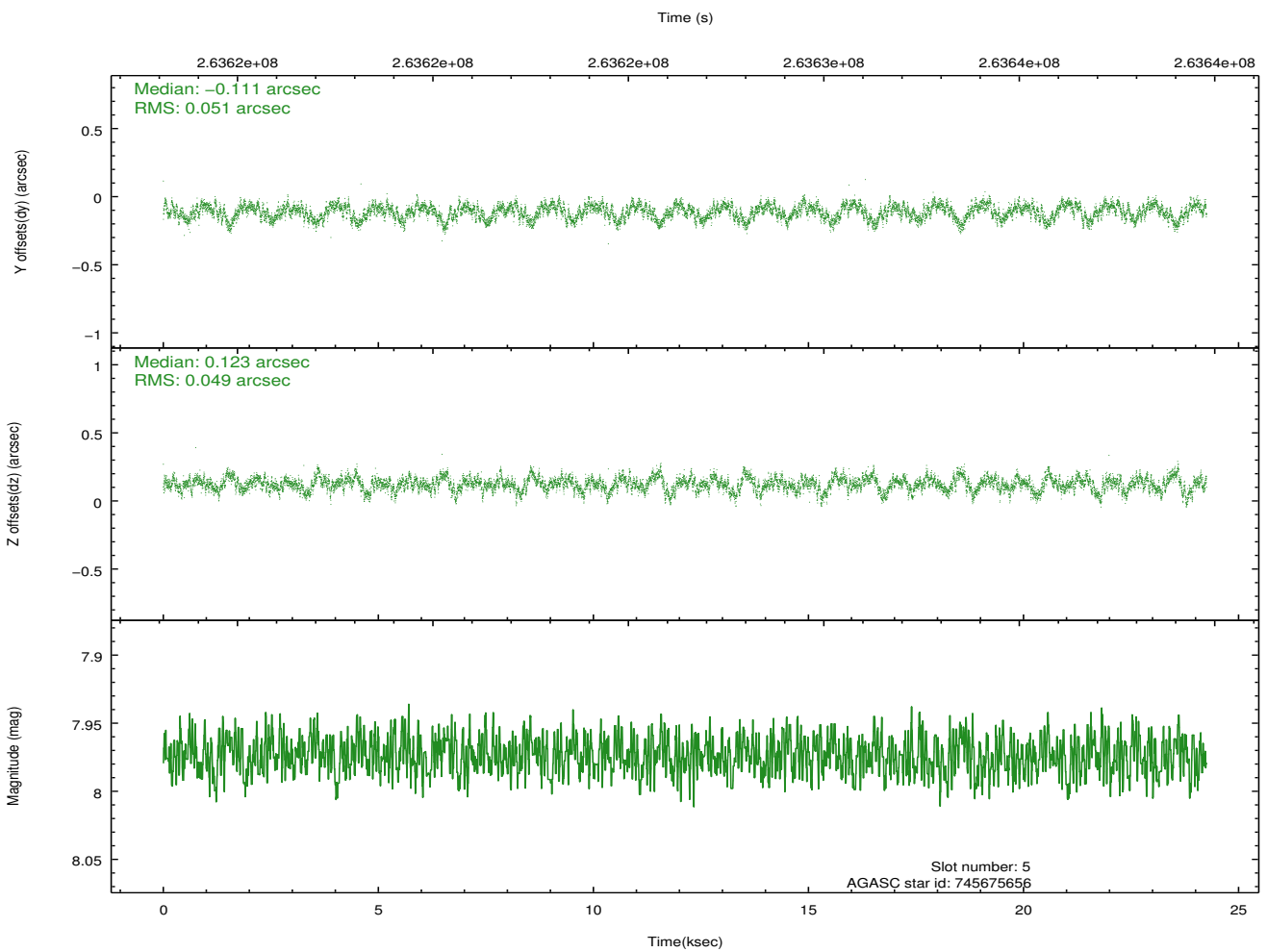
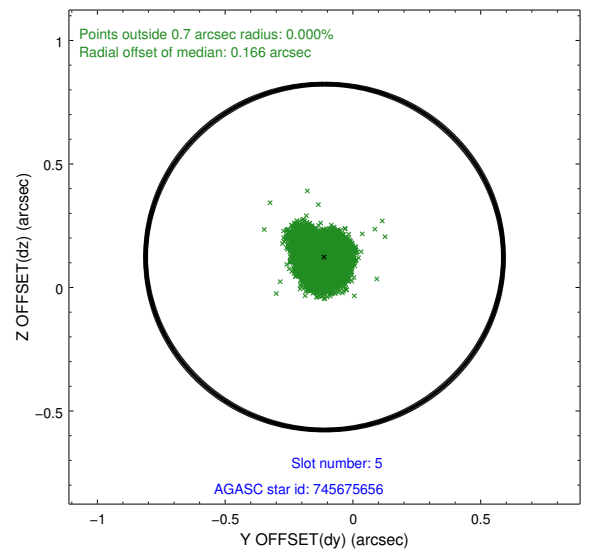
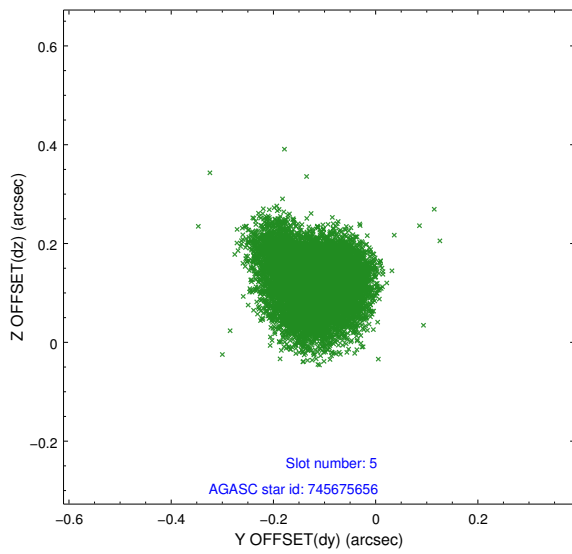
2.4.1 Slot 3



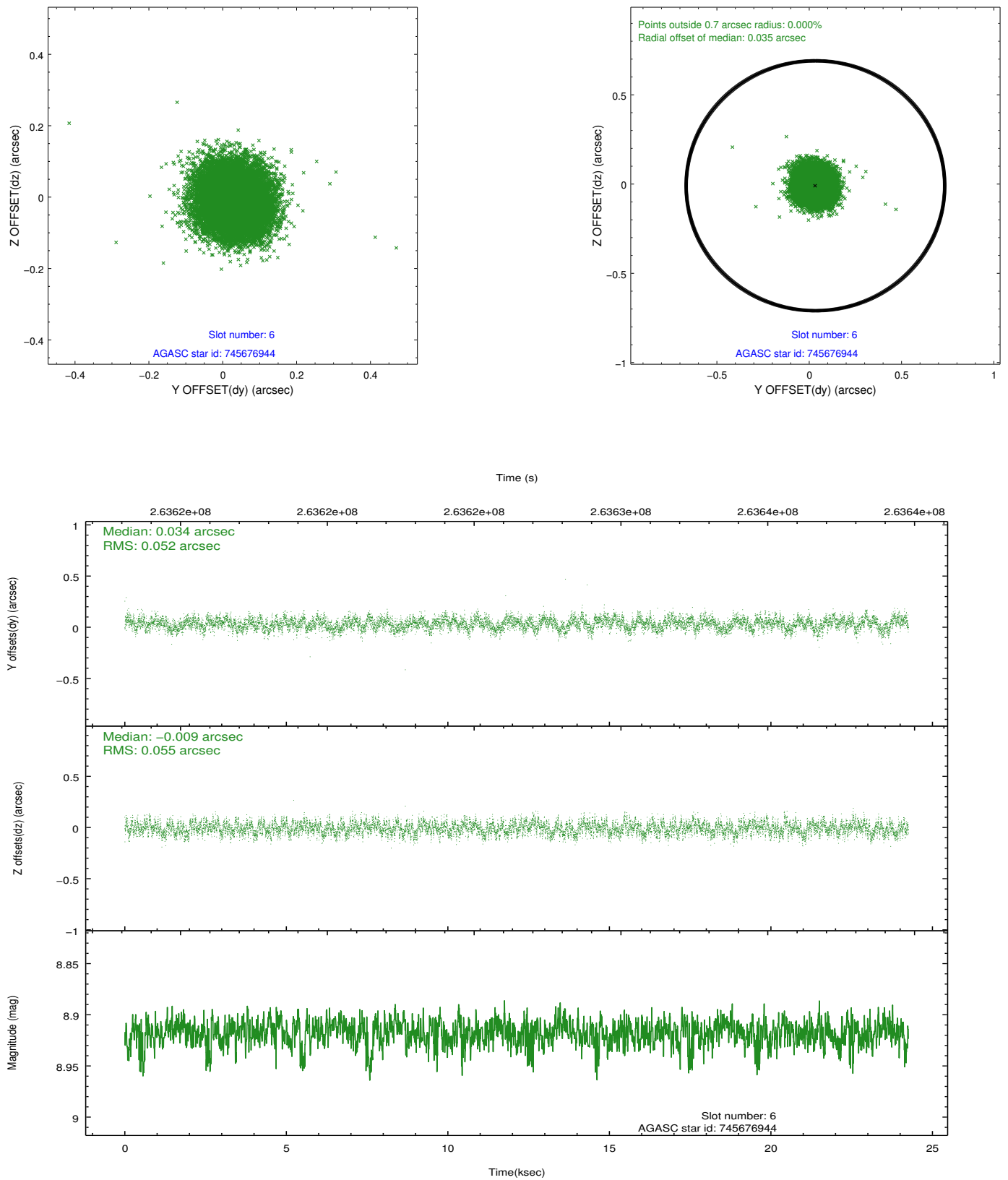
2.4.2 Slot 4



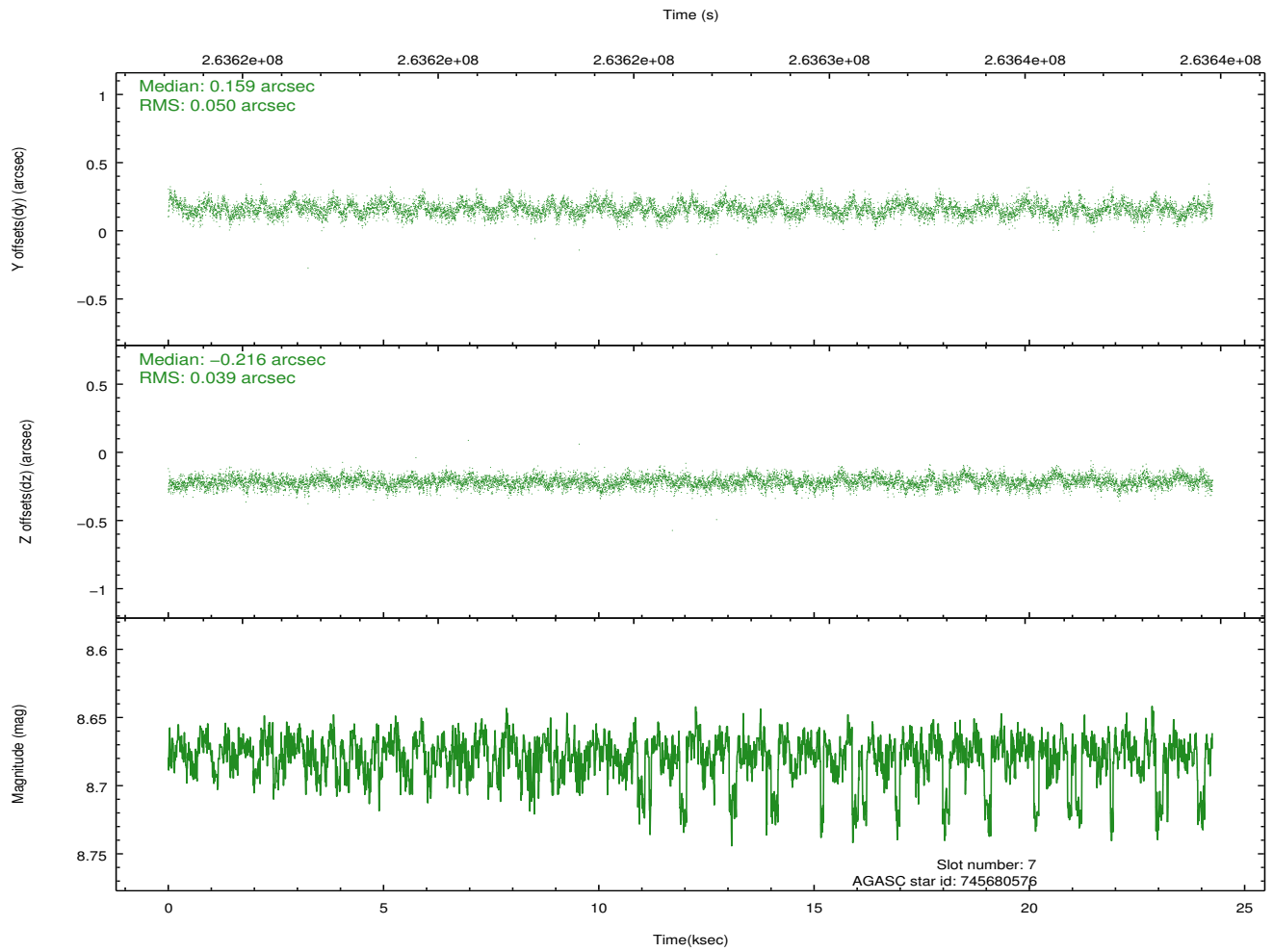
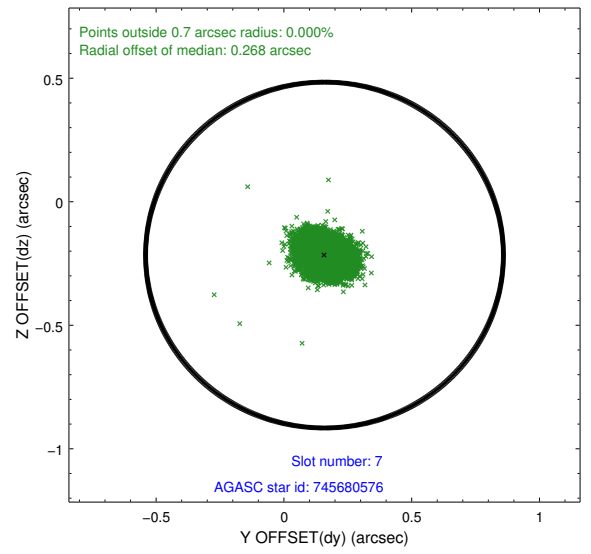
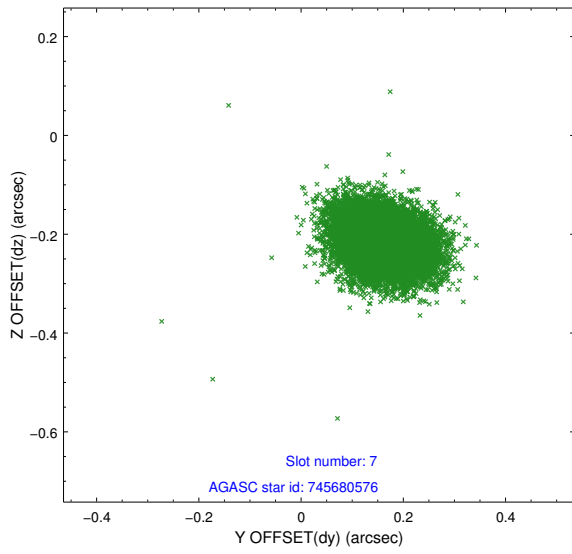
2.4.3 Slot 5



2.4.4 Slot 6

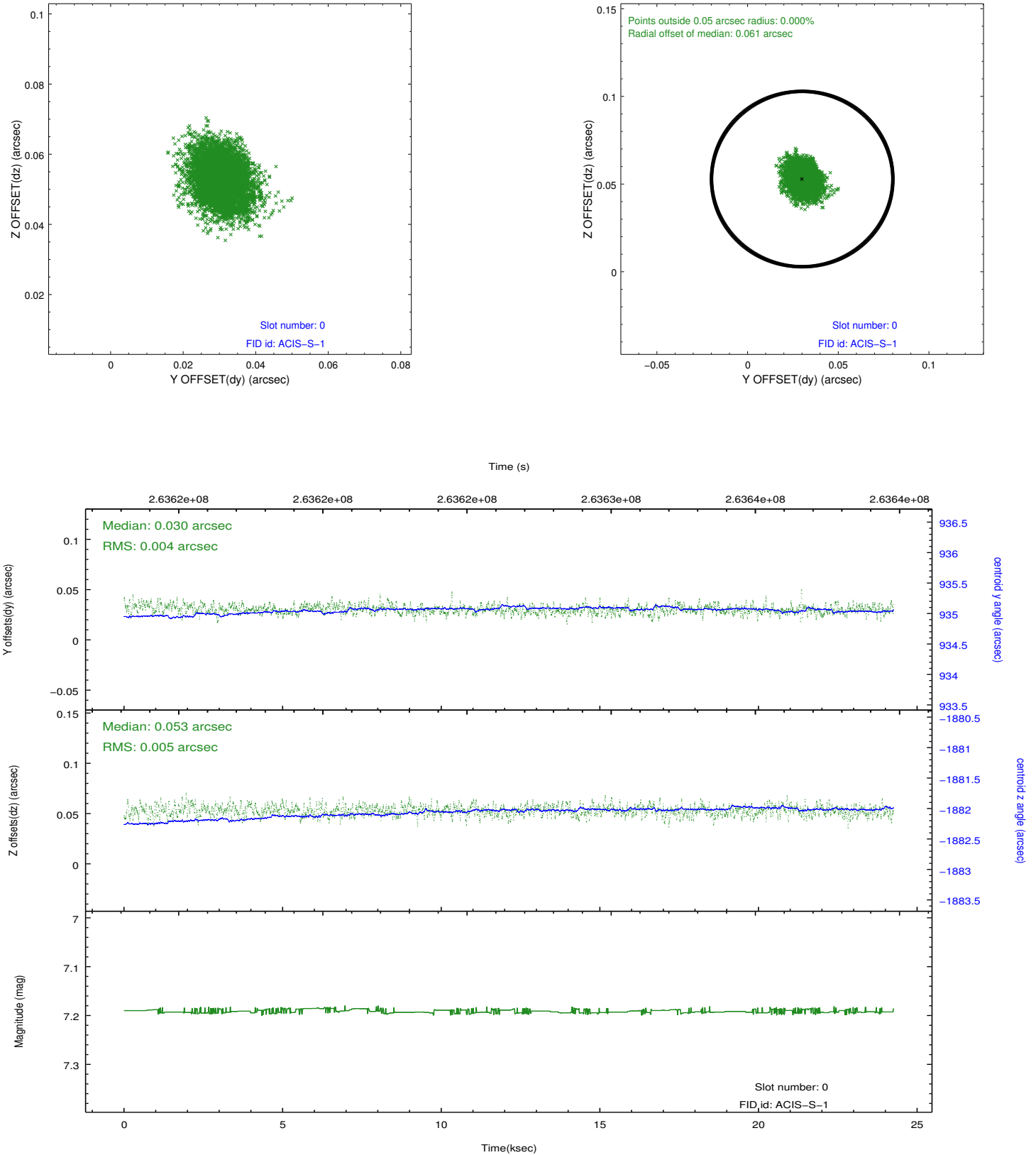


2.4.5 Slot 7

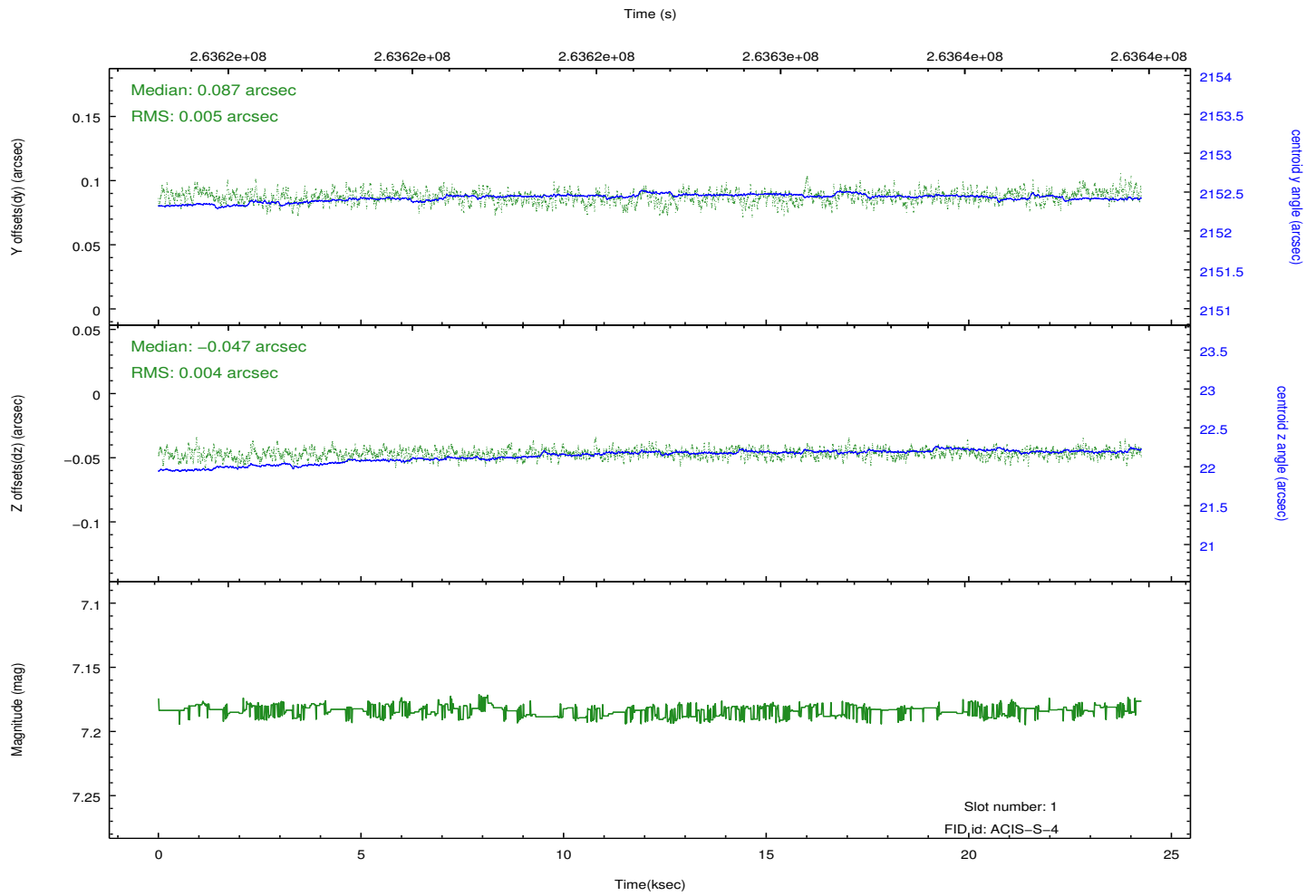
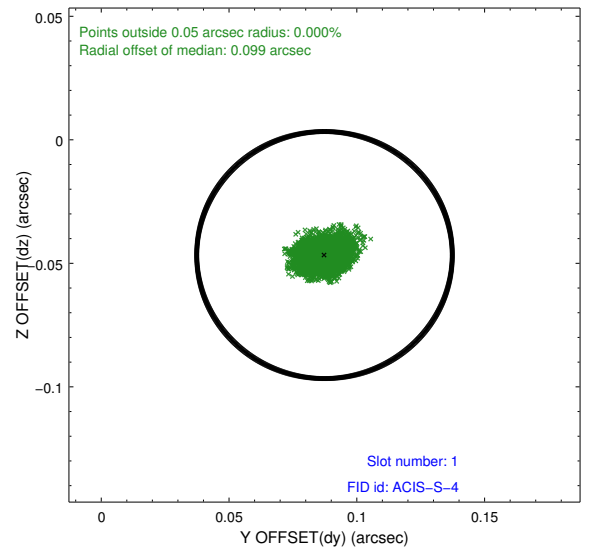
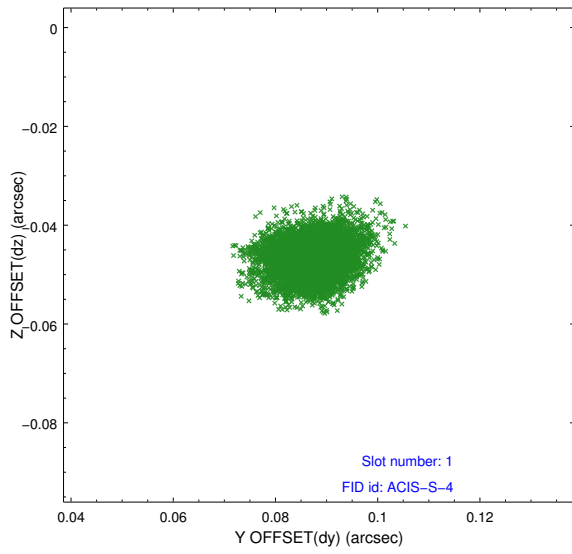


2.5 FID Slots

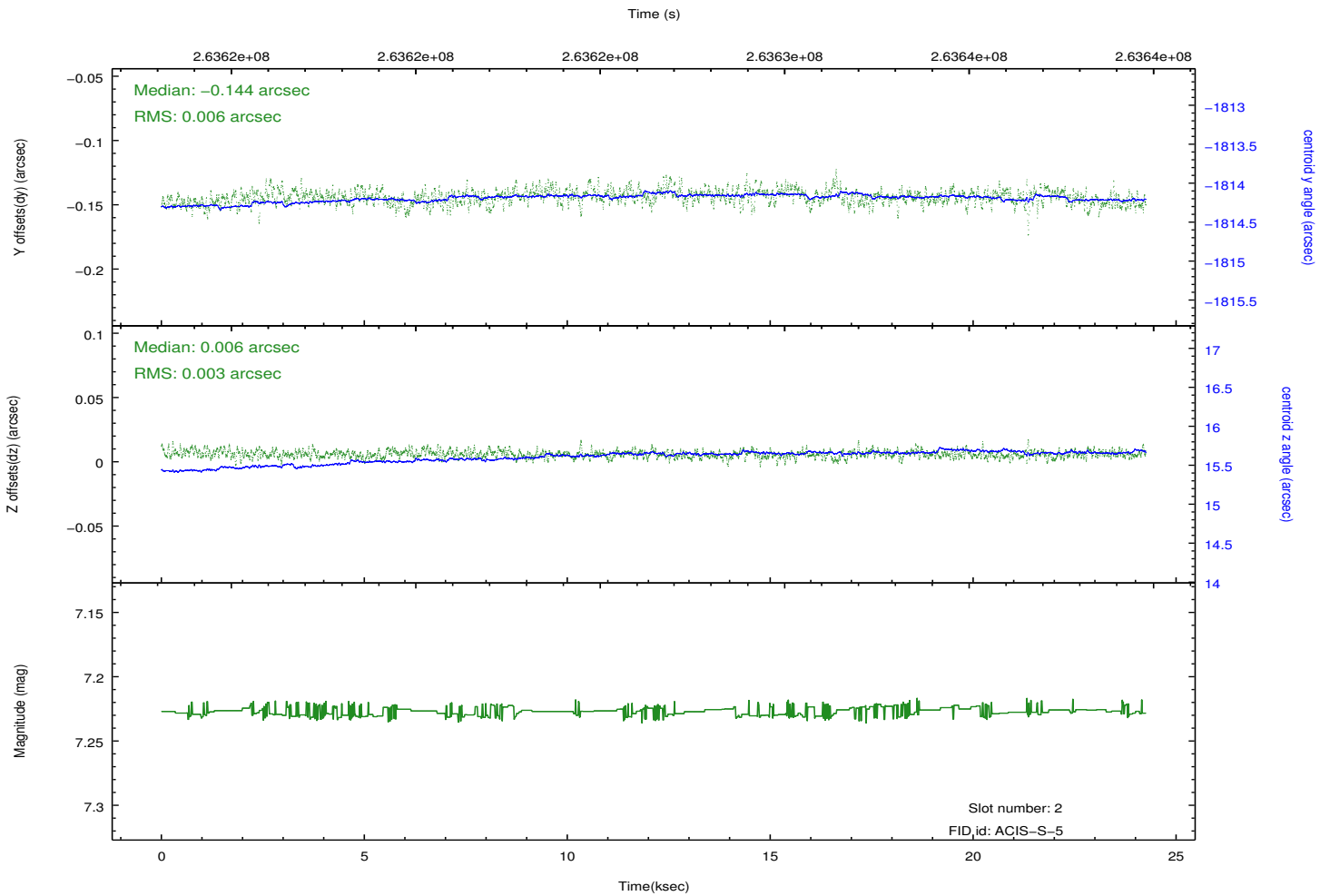
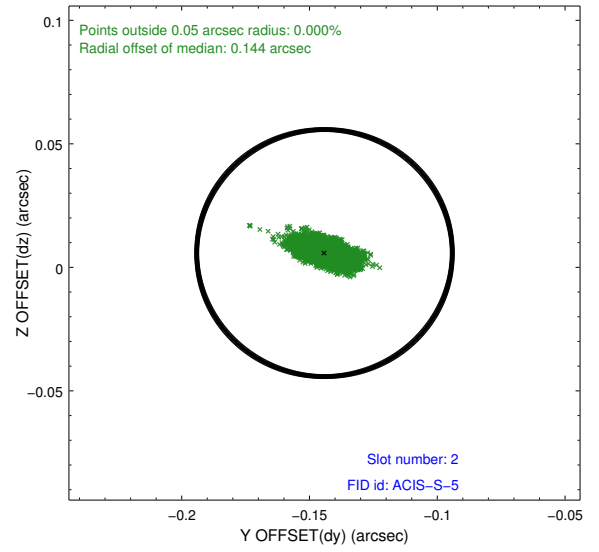
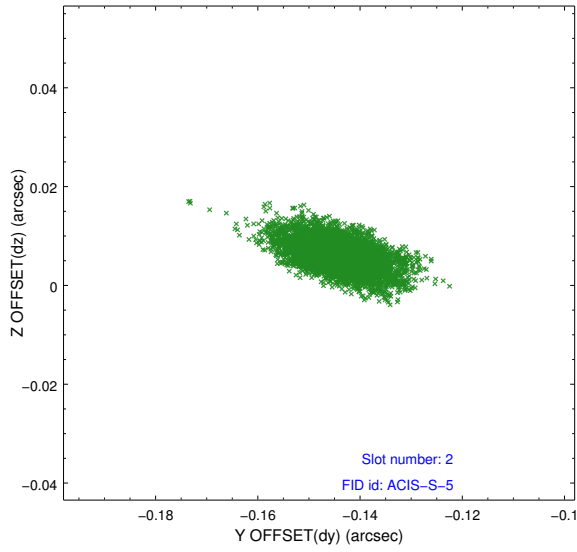
2.5.1 Slot 0



2.5.2 Slot 1

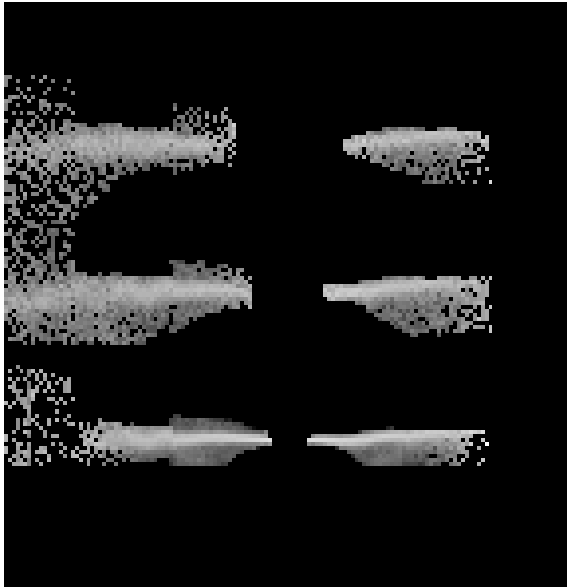


2.5.3 Slot 2

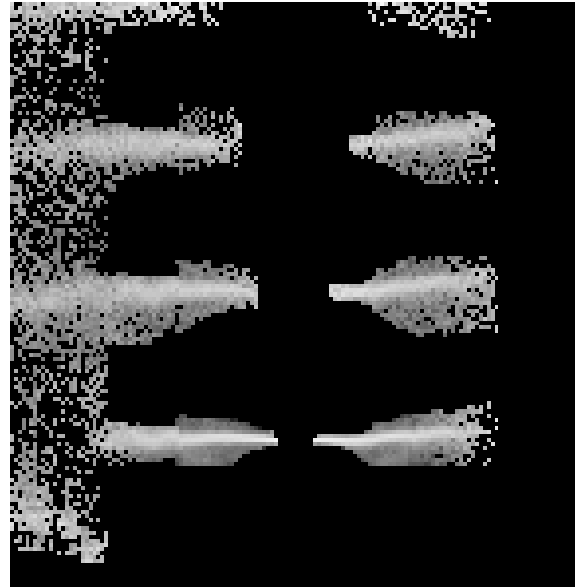


3 Gratings

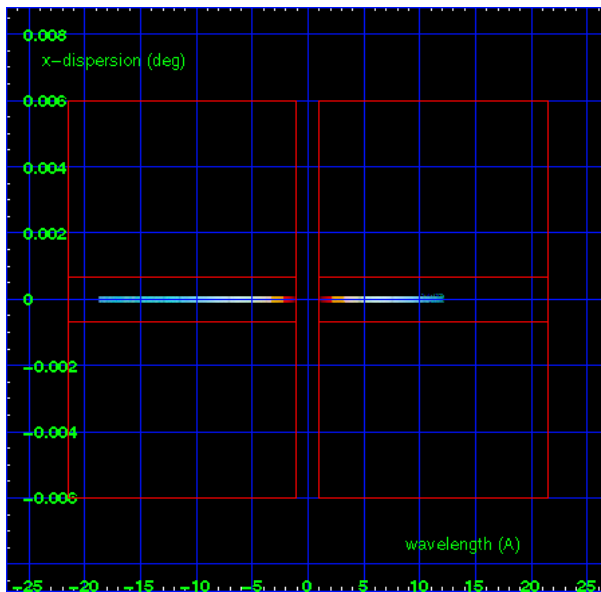
3.1 HEG Arm



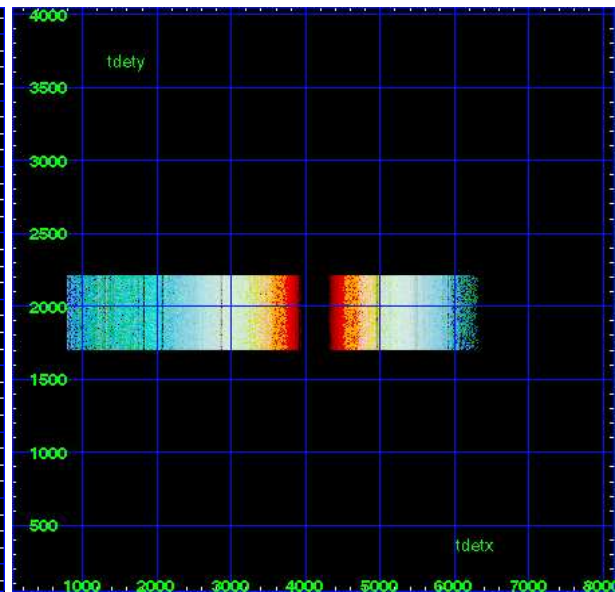
HEG Order Sort 123



HEG Order Sort ALL

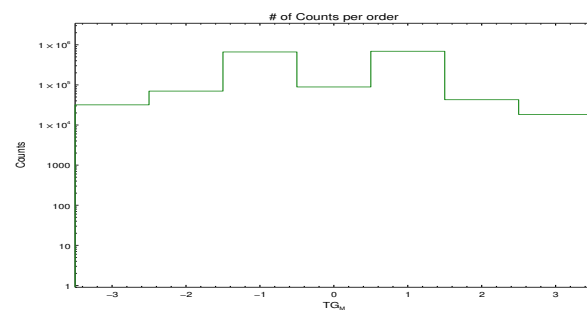


Spot Image HEG

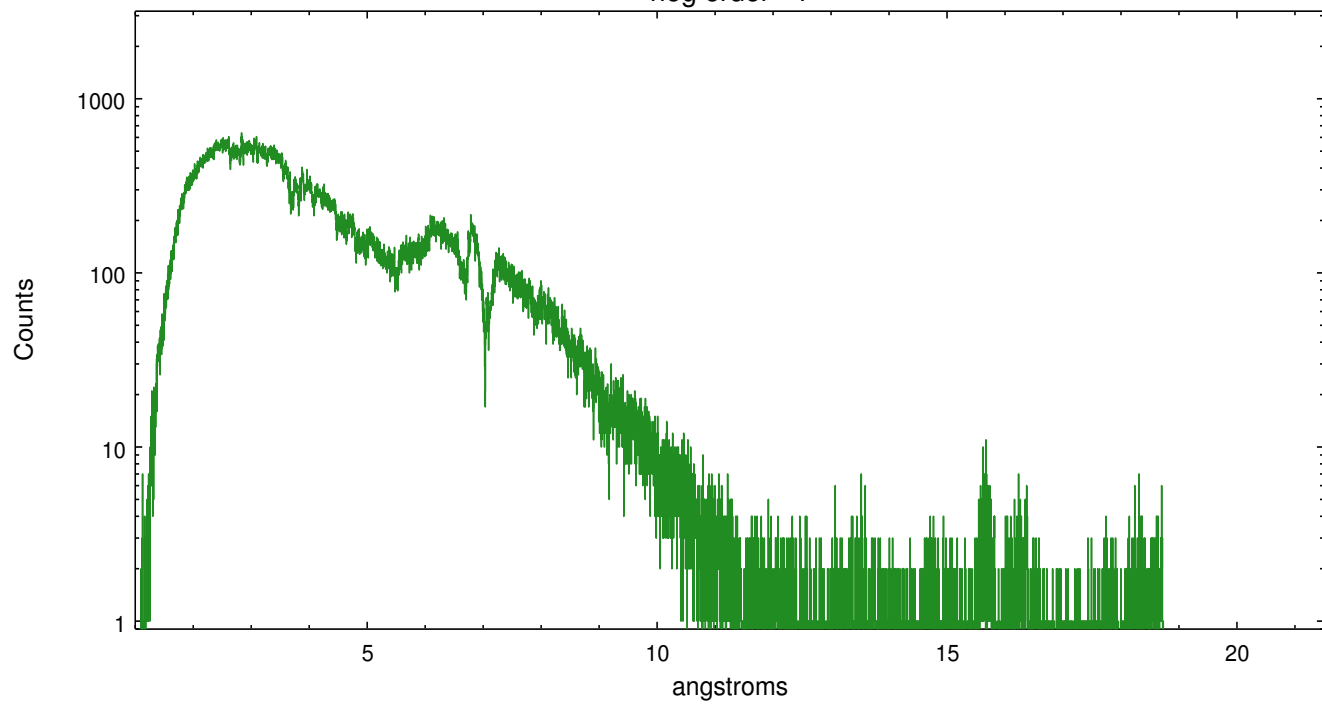


Full Detector HEG

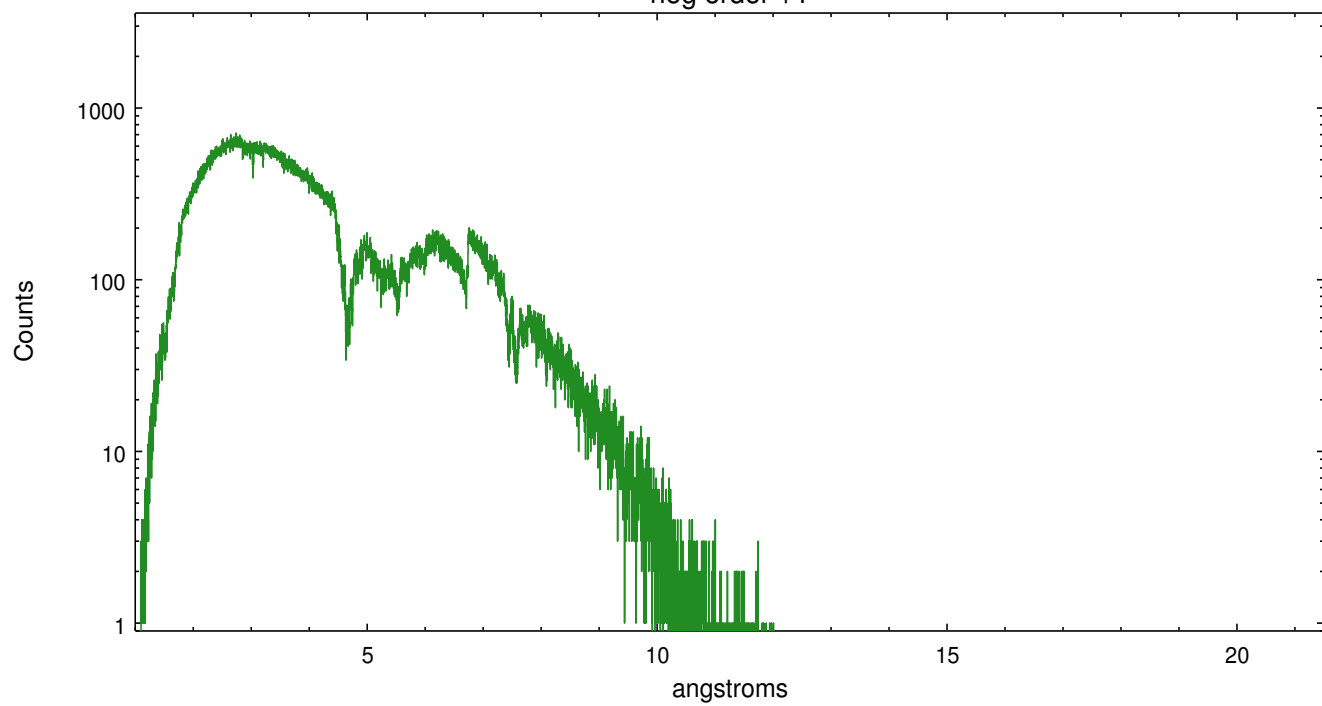
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	31841	70102	663575	88942	690143	42783	18322



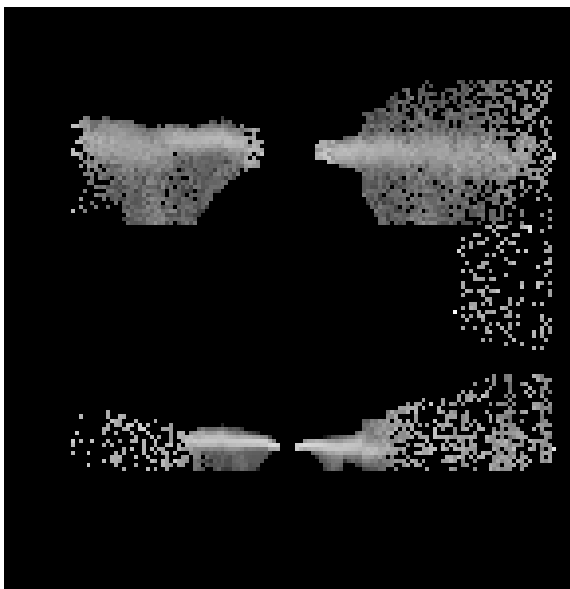
heg order -1



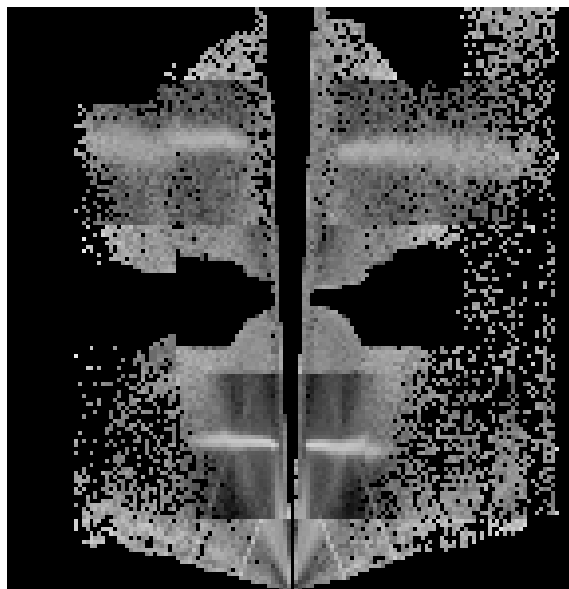
heg order +1



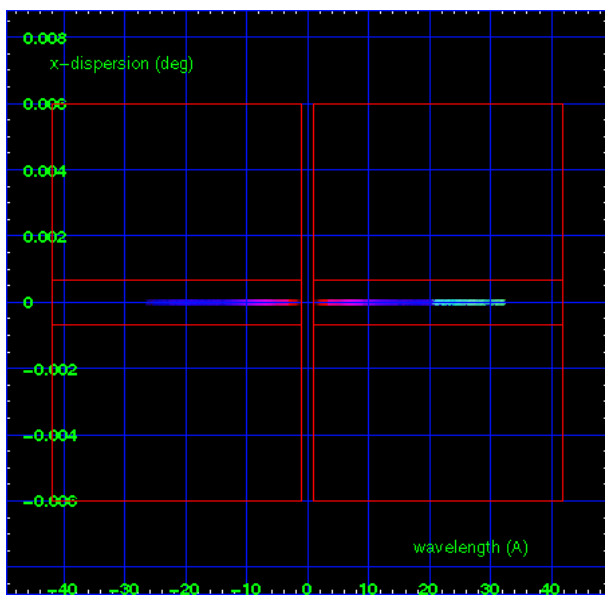
3.2 MEG Arm



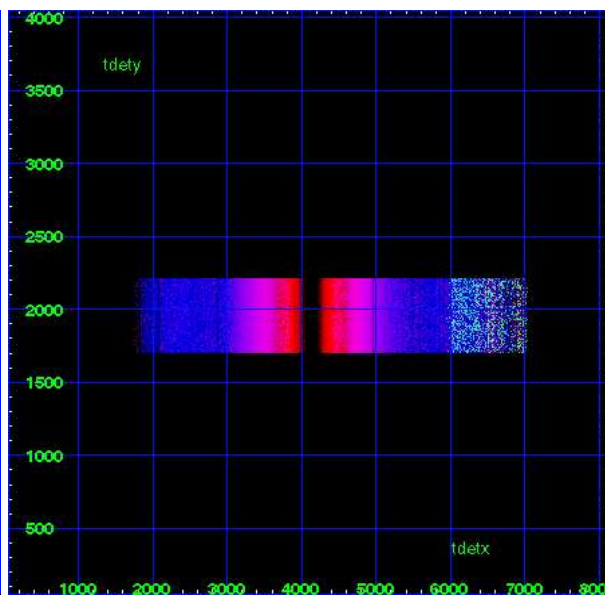
MEG Order Sort 123



MEG Order Sort ALL

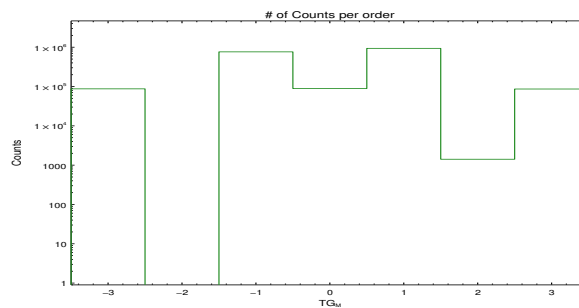


Spot Image MEG

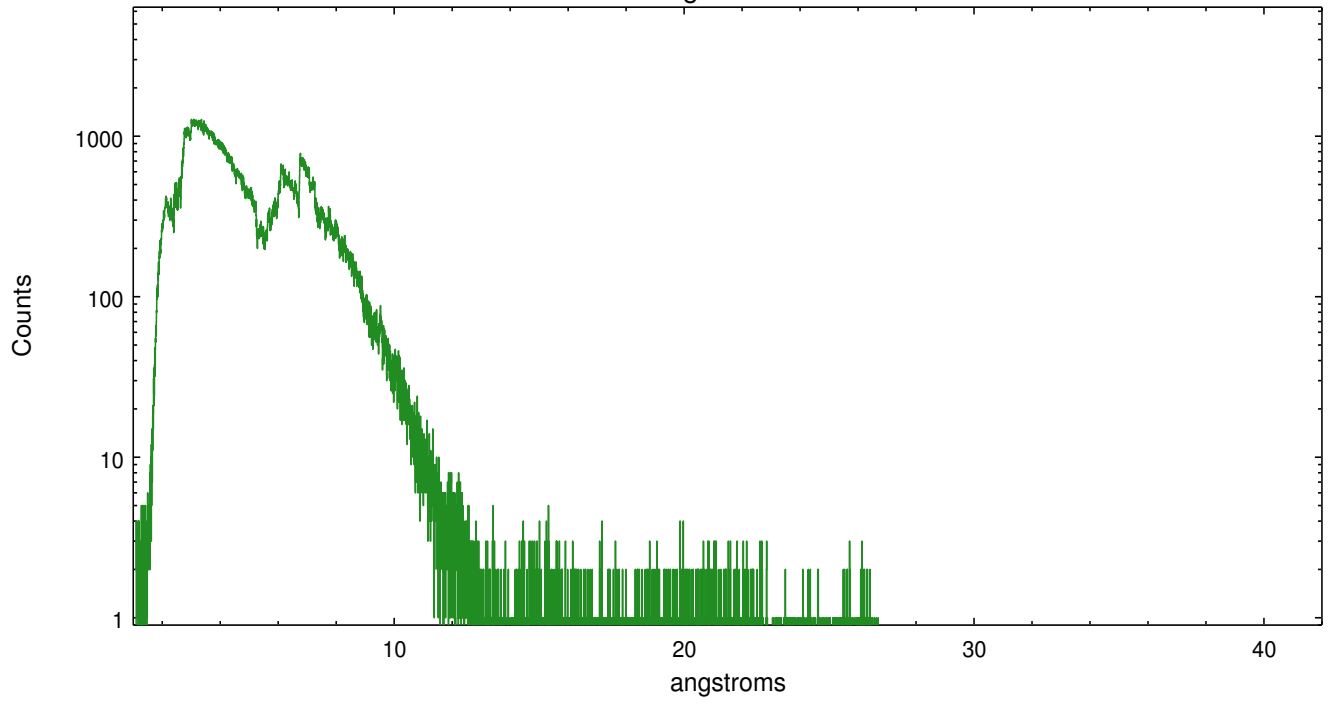


Full Detector MEG

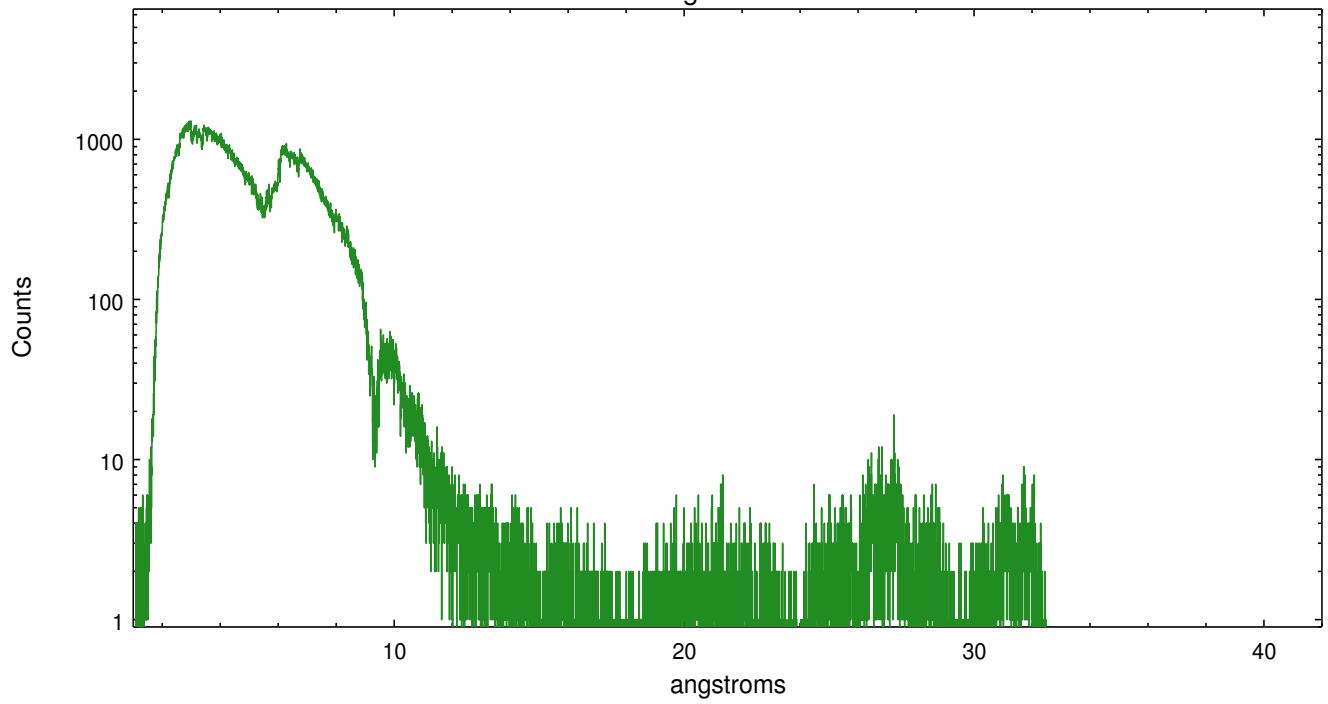
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	87399	0	762763	88942	935682	1413	86508



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.6767507

A.2 Comments