

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7336 - L2 Version 2
Chandra X-Ray Center

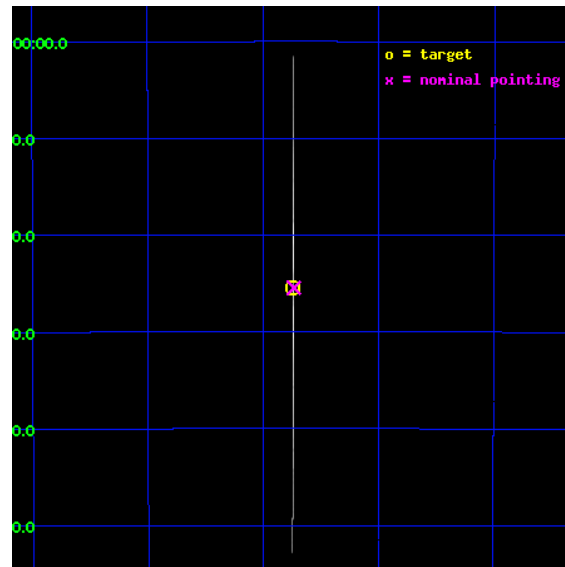
L2 Processing Date : Jun 8 2012

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1 Front

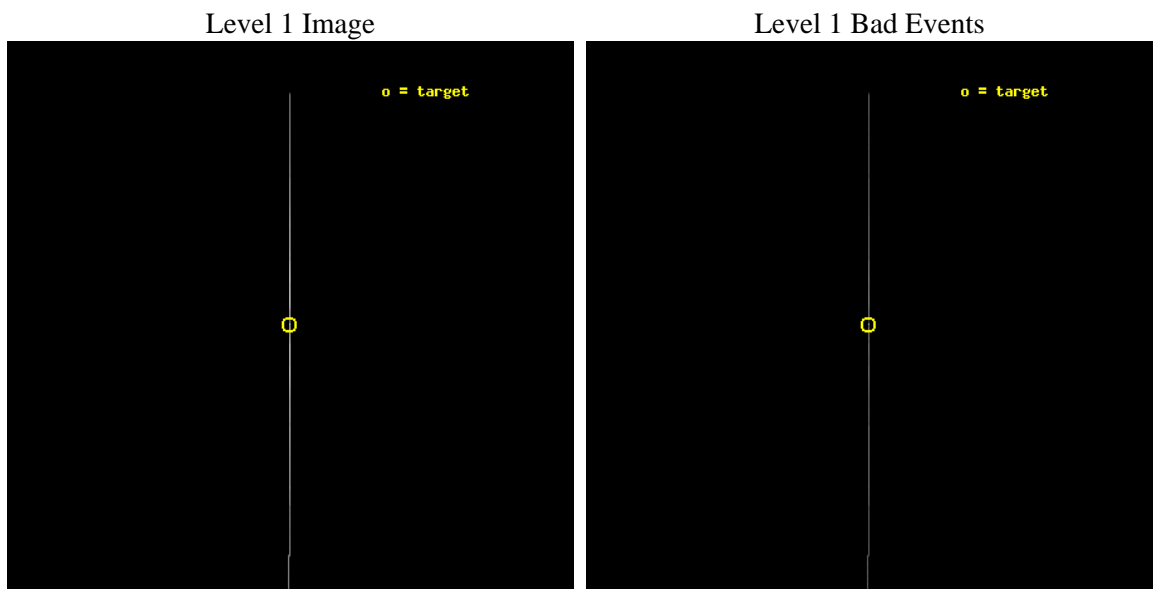
seq_num	400562	Sequence number
obs_id	7336	Observation id
title	CHAZSS: The Chandra HETGS Atoll/Z Spectroscopic Survey	Proposal ti
observer	Dr Jon Miller	Principal investigator
object	GX 349+2	Source name
ra_targ	256.435417	Observer's specified target RA [deg]
dec_targ	-36.423056	Observer's specified target Dec [deg]
ra_nom	256.43334462286	Nominal RA [deg]
dec_nom	-36.424347860912	Nominal Dec [deg]
roll_nom	270.02857983554	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12110.823928237	Sum of GTIs [s]
livetime	12063.516022267	Livetime [s]
ontime4	12166.25	Sum of GTIs [s]
ontime5	12166.25	Sum of GTIs [s]
ontime6	12166.25	Sum of GTIs [s]
ontime7	12110.823928237	Sum of GTIs [s]
ontime8	12128.327937901	Sum of GTIs [s]
ontime9	12166.25	Sum of GTIs [s]
l2events	3185600	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	12500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	12110.823928237	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	12166.25	Sum of GTIs [s]
date	2012-04-07T13:10:52	Date and time of file creation	ontime5	12166.25	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12166.25	Sum of GTIs [s]
			ontime7	12110.823928237	Sum of GTIs [s]
			ontime8	12128.327937901	Sum of GTIs [s]
			ontime9	12166.25	Sum of GTIs [s]
			l1events	3448403	Number of level 1 events

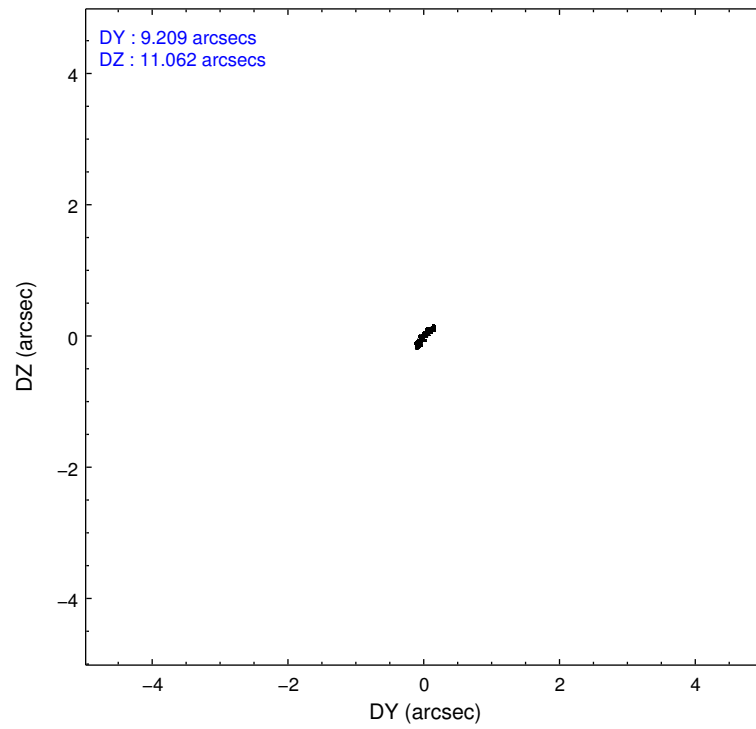
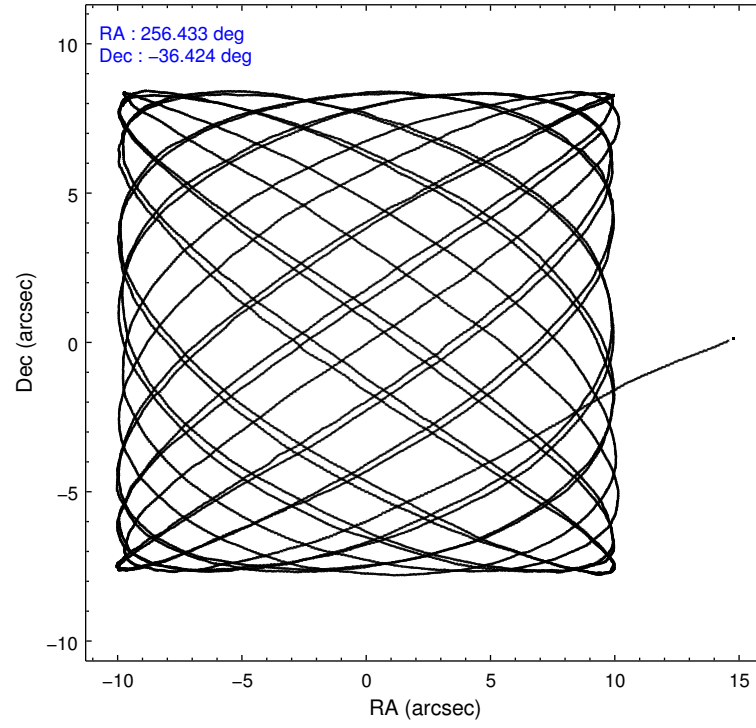
2.1.3 Events

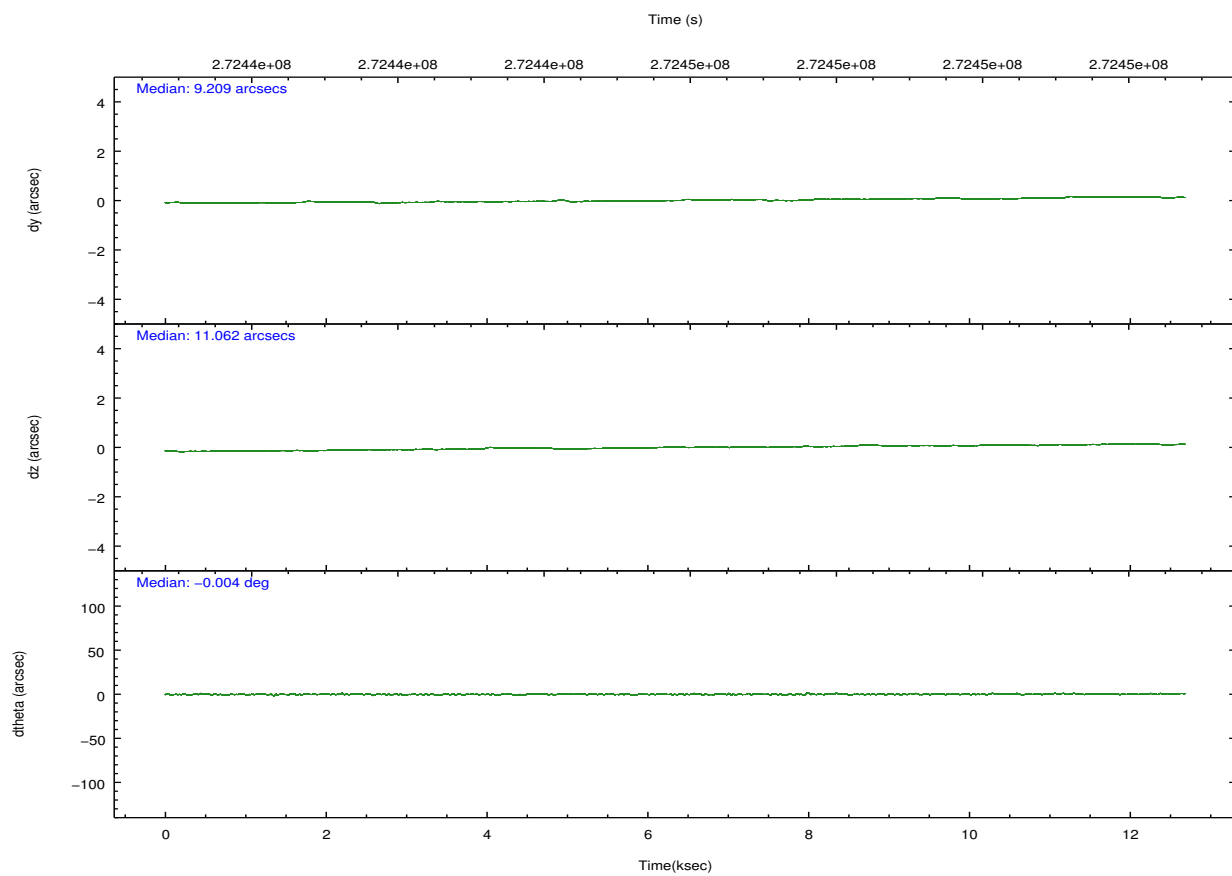
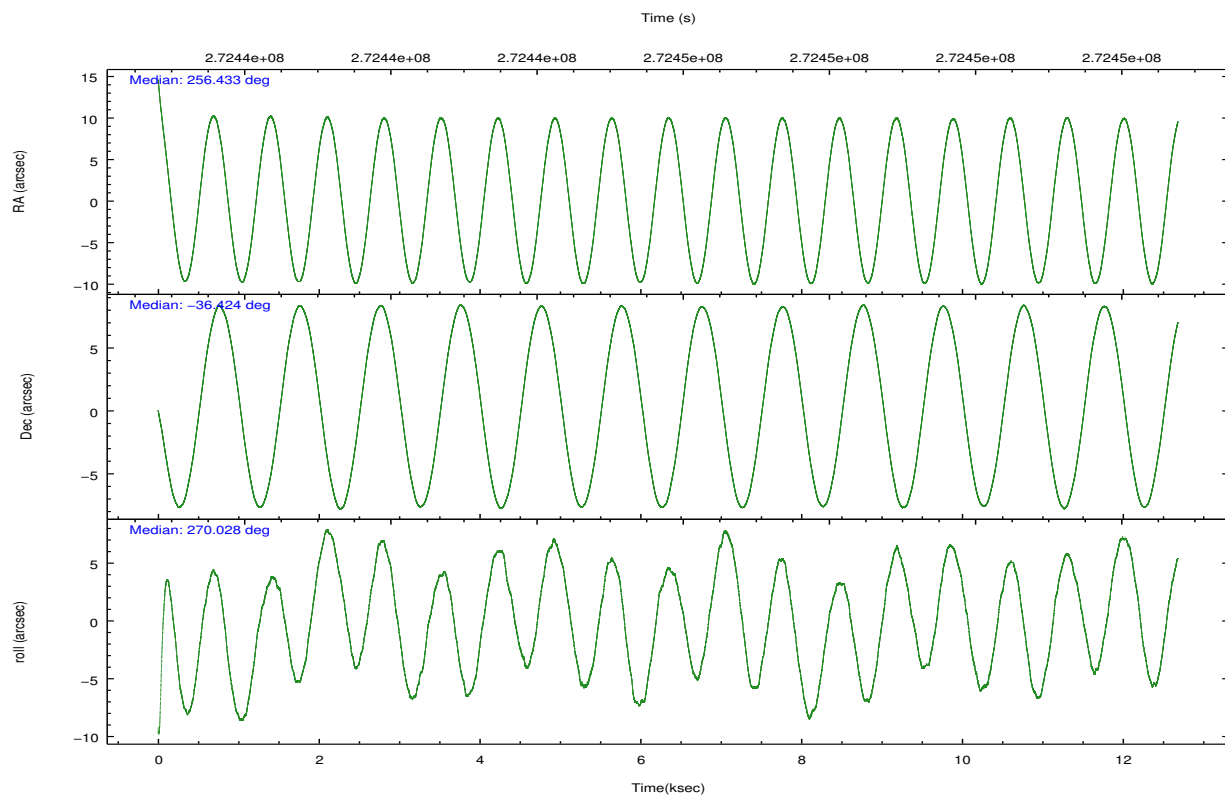
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	51563	279793	1207057	1419496	418542	71952	grade 0 events	3095	39886	322206	245558	246135	7938
rejected events	3904	10664	12475	27081	8153	4984		6%	14%	26%	17%	58%	11%
rejected %	7%	3%	1%	1%	1%	6%	grade 1 events	80	159	1071	2186	876	102
								0%	0%	0%	0%	0%	0%
							grade 2 events	33360	113222	728370	415593	113367	45646
								64%	40%	60%	29%	27%	63%
							grade 3 events	2428	11311	17707	126732	13785	2395
								4%	4%	1%	8%	3%	3%
							grade 4 events	2497	10986	17585	126176	13701	2591
								4%	3%	1%	8%	3%	3%
							grade 5 events	3813	10373	10924	24640	7209	4873
								7%	3%	0%	1%	1%	6%
							grade 6 events	6290	93856	109194	478611	23469	8407
								12%	33%	9%	33%	5%	11%
							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	256.416014	256.4333446228554	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.400908	-36.42434786091214	Alternating exposures requested	N	N
[deg] Pointing Roll	269.861682	270.0285798355441	[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)	272439636.184000	272438856.82247			
Observation start date	2006-08-20T05:39:31	2006-08-20T05:27:36			
[s] Observation end time (MET)	272452136.184000	272453005.41064			
Observation end date	2006-08-20T09:07:51	2006-08-20T09:23:25			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



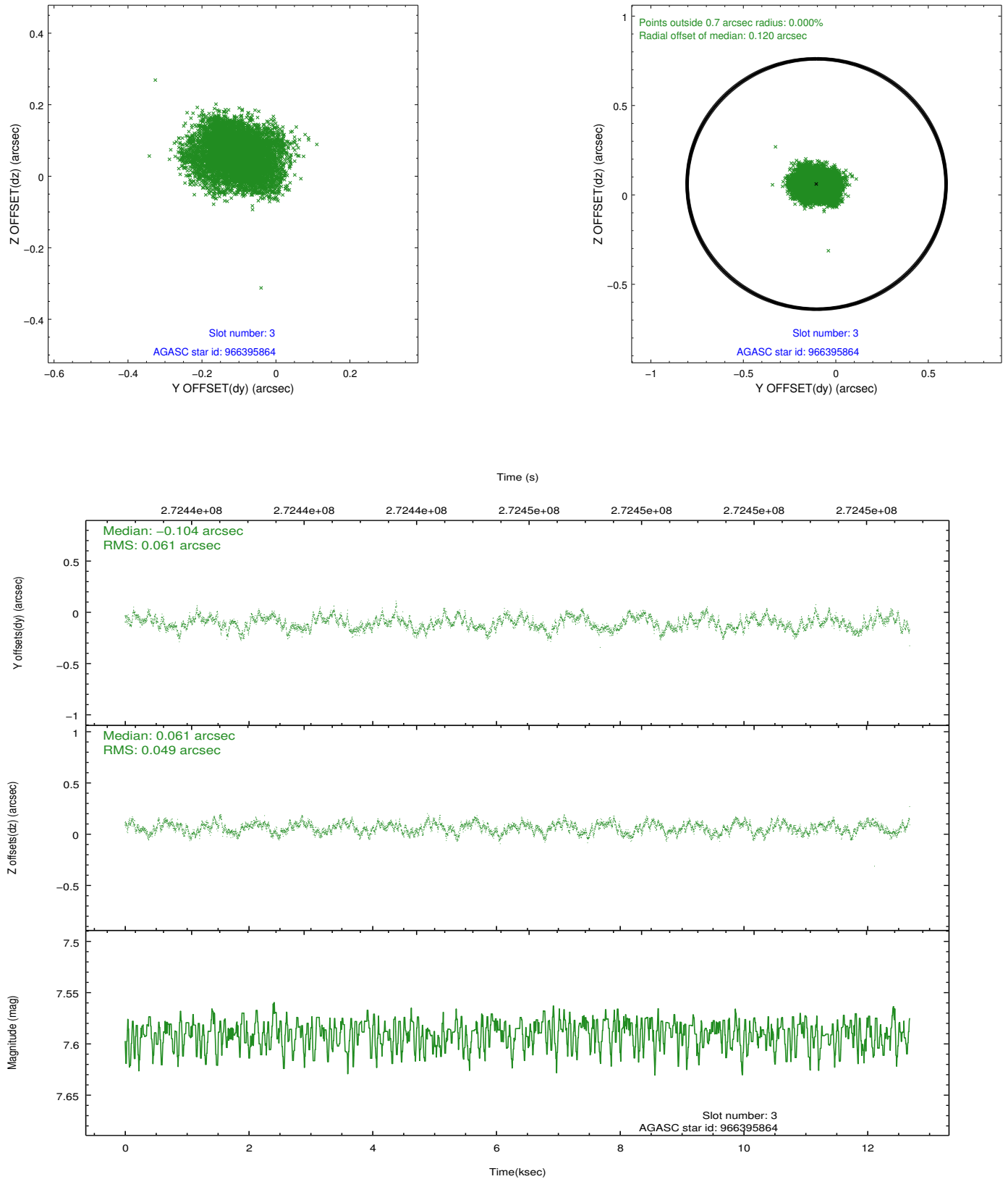


Slot Statistics

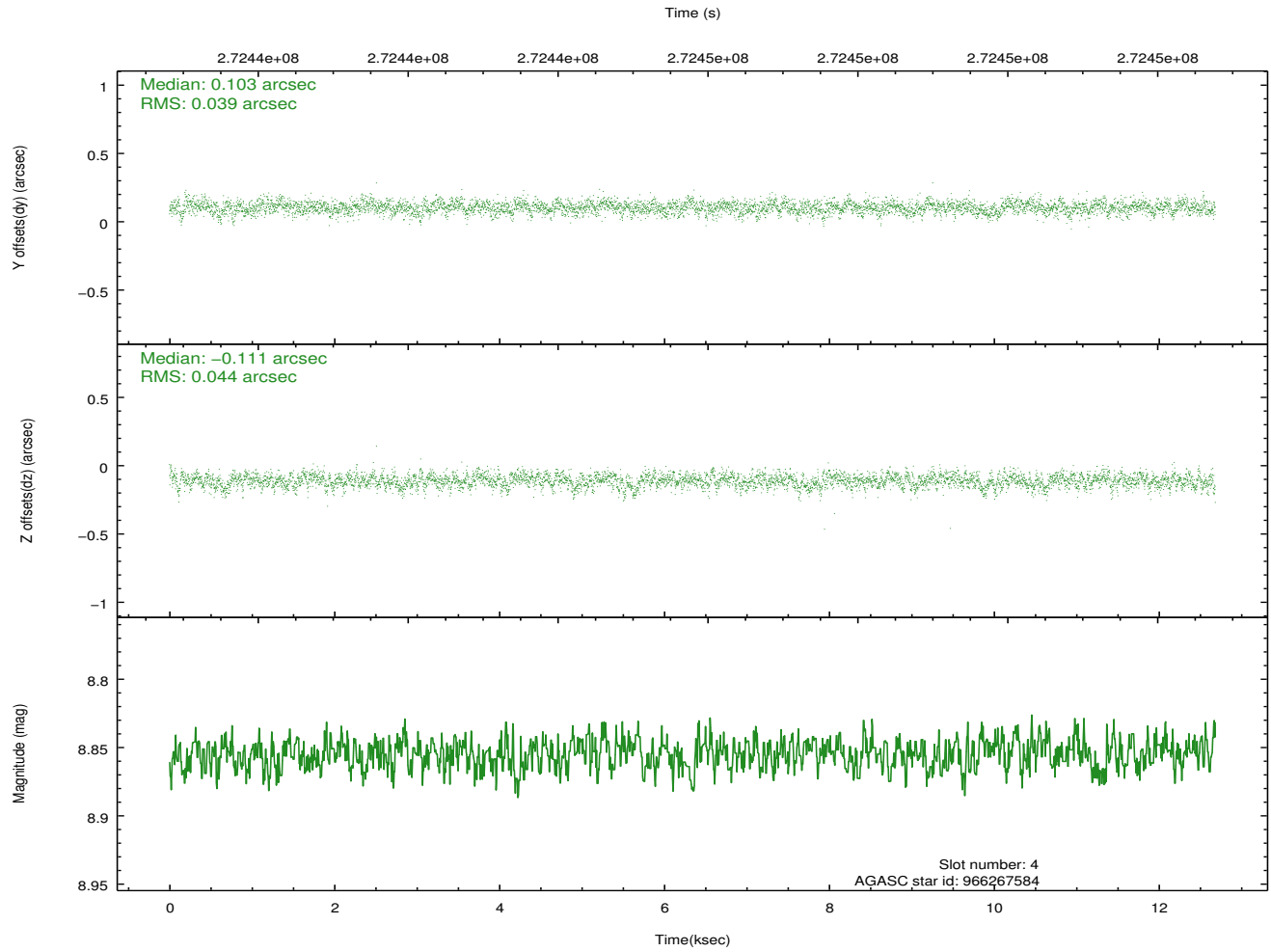
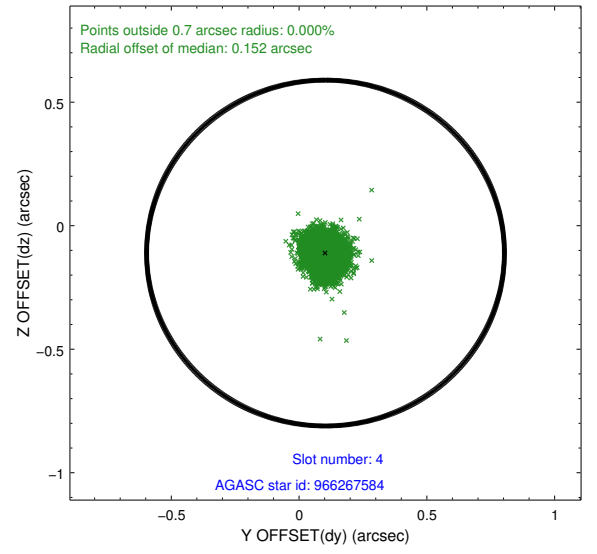
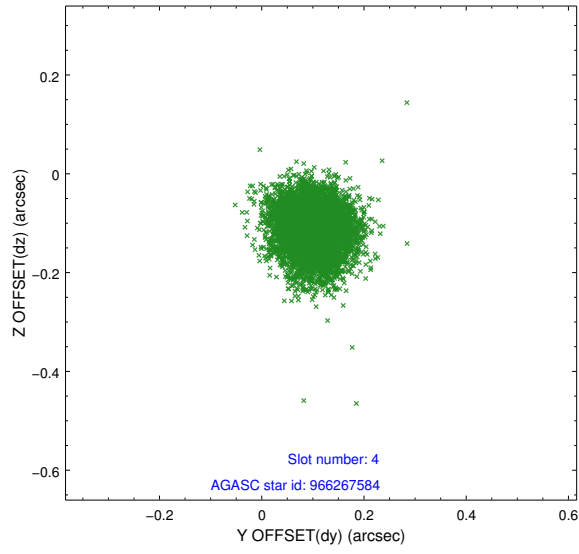
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	3094	-0.144	-0.112	0.008	0.015	0.000000	0.000000	-761.65	-1886.81
1	FID	ACIS-S-4	7.18	3094	0.129	0.078	0.006	0.010	0.000000	0.000000	2151.74	21.39
2	FID	ACIS-S-6	7.40	3093	-0.012	0.041	0.009	0.015	0.000000	0.000000	400.98	659.19
3	GUIDE	966395864	7.59	6186	-0.104	0.061	0.085	0.132	256.670769	-36.077904	-1163.72	738.57
4	GUIDE	966267584	8.85	6170	0.103	-0.111	0.062	0.102	256.057206	-36.642617	874.55	-1034.22
5	GUIDE	966396120	7.84	6187	0.048	-0.117	0.059	0.094	256.737004	-36.720258	1149.27	928.93
6	GUIDE	966401448	7.78	6187	-0.186	0.050	0.059	0.105	256.771484	-35.758991	-2311.50	1033.19
7	GUIDE	966394144	8.64	6176	0.138	0.118	0.057	0.095	256.902901	-37.062041	2380.23	1404.70

2.4 Star Slots

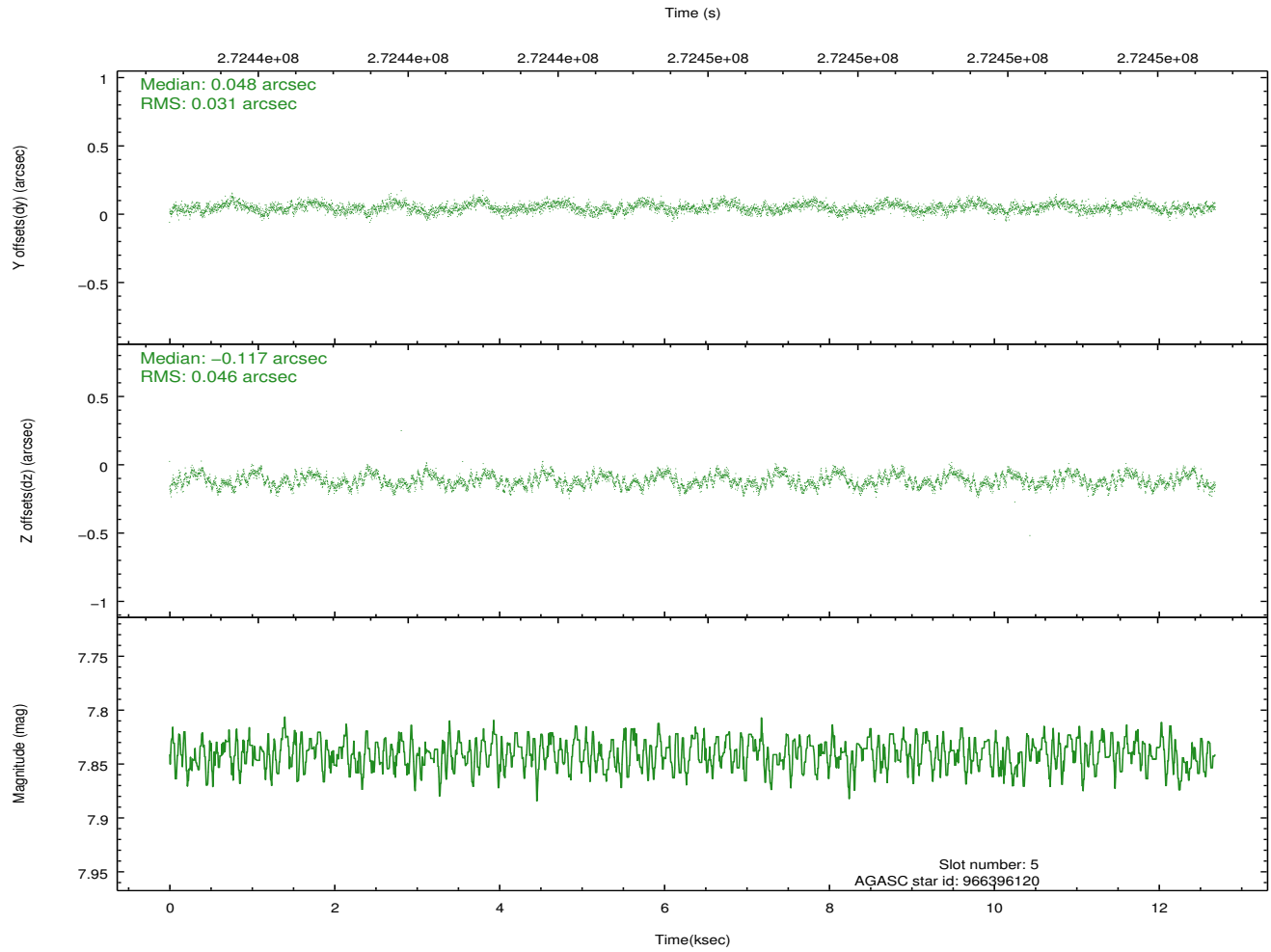
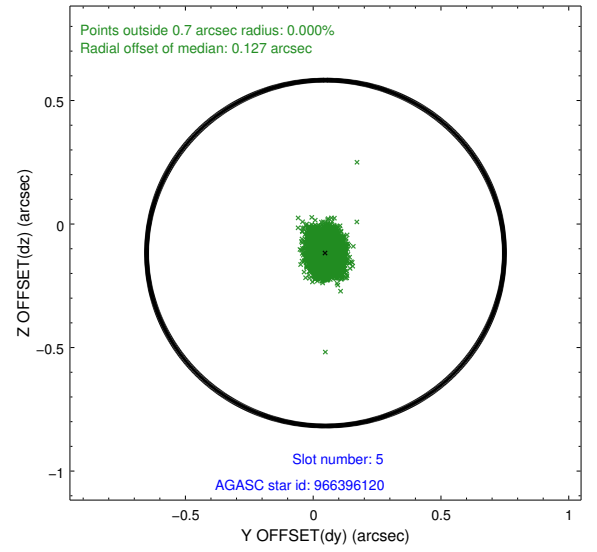
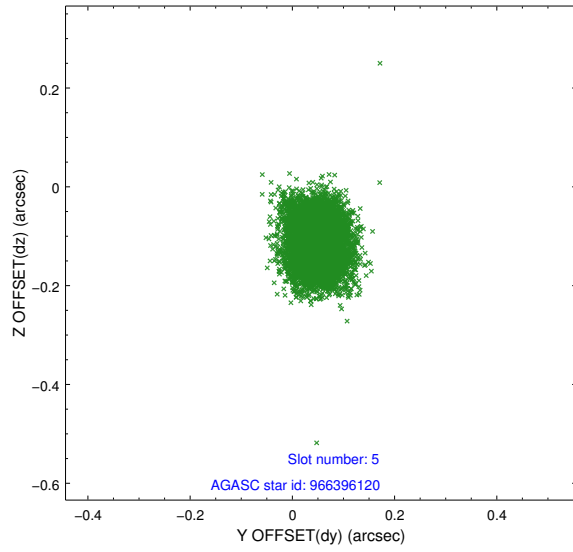
2.4.1 Slot 3



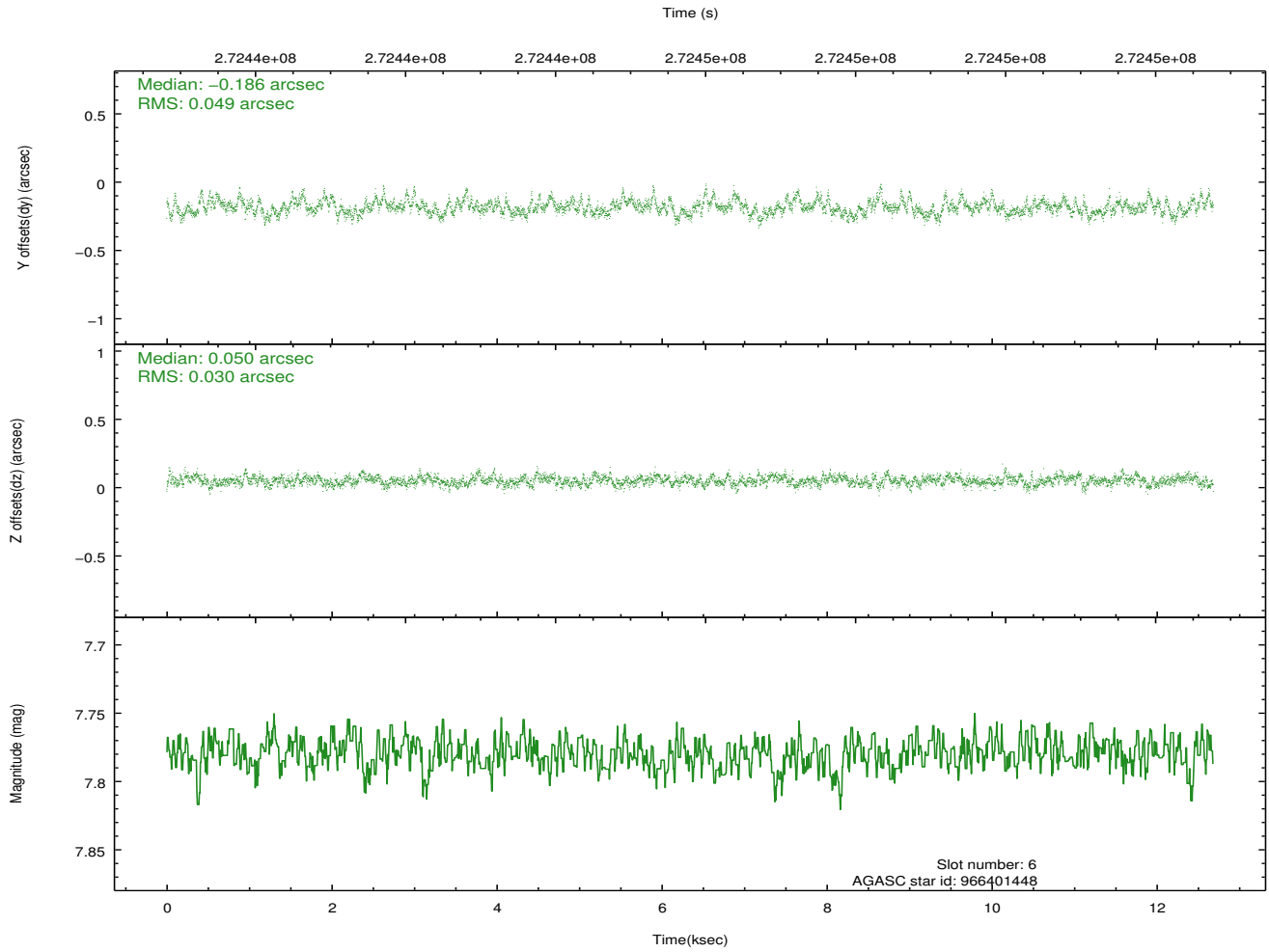
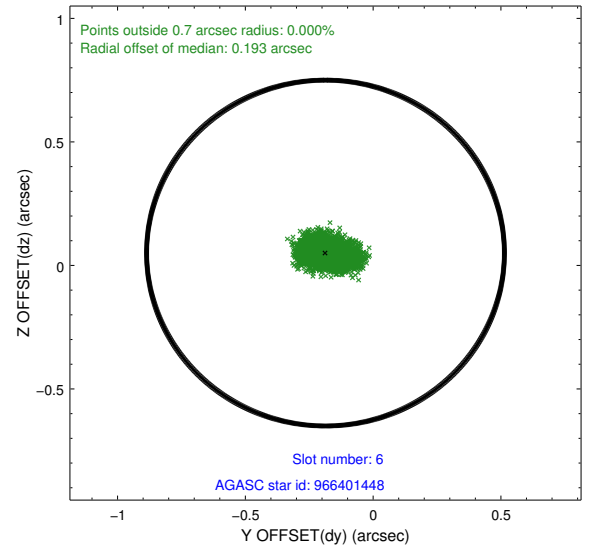
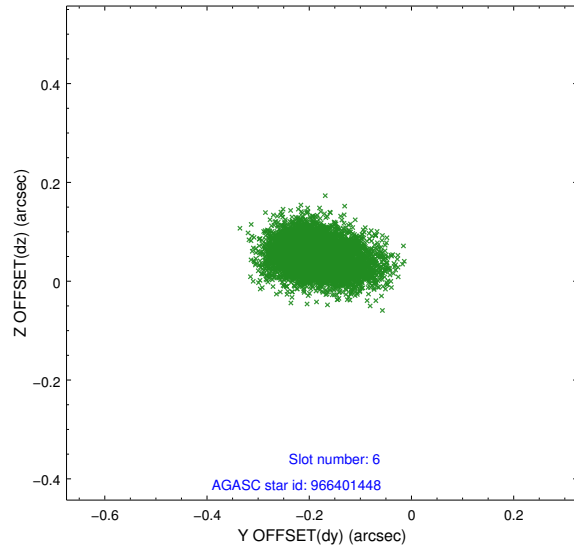
2.4.2 Slot 4



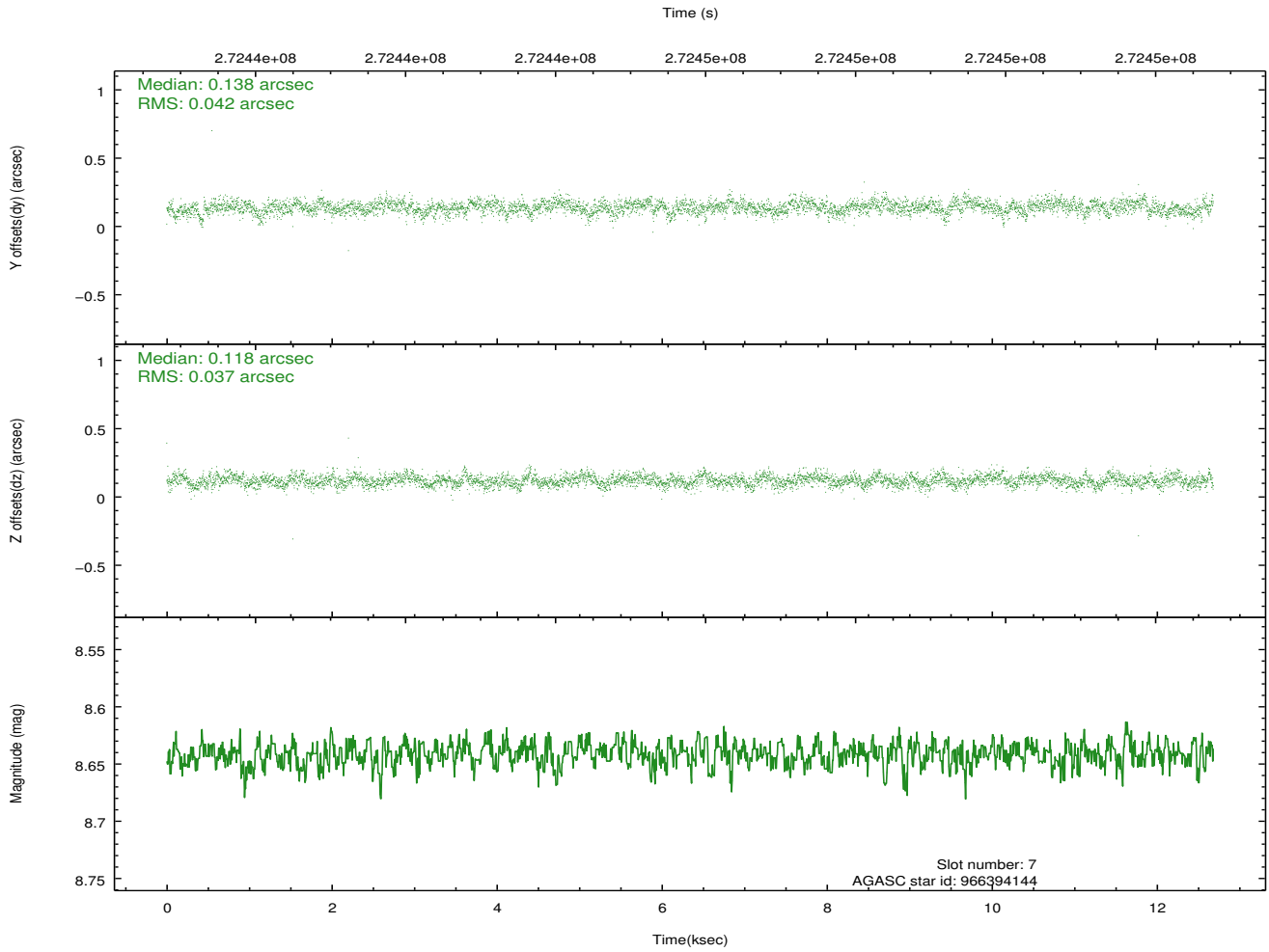
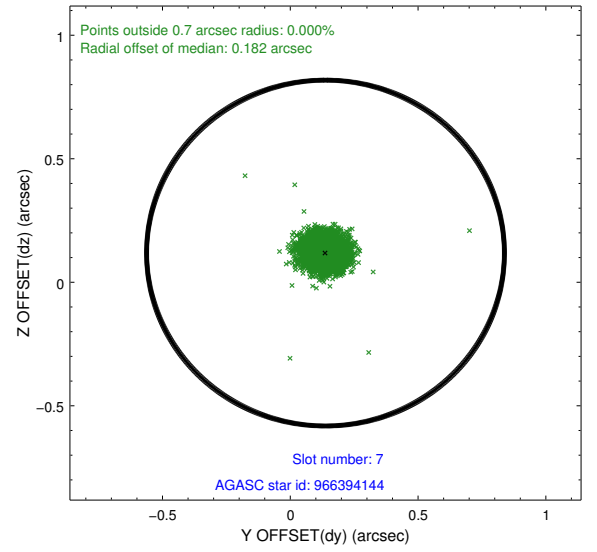
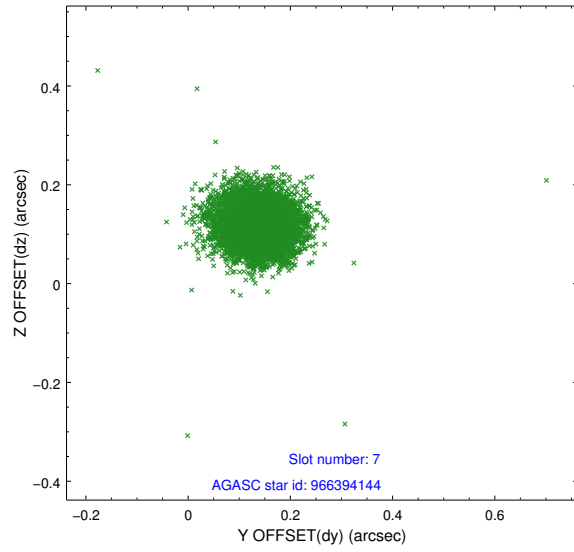
2.4.3 Slot 5



2.4.4 Slot 6

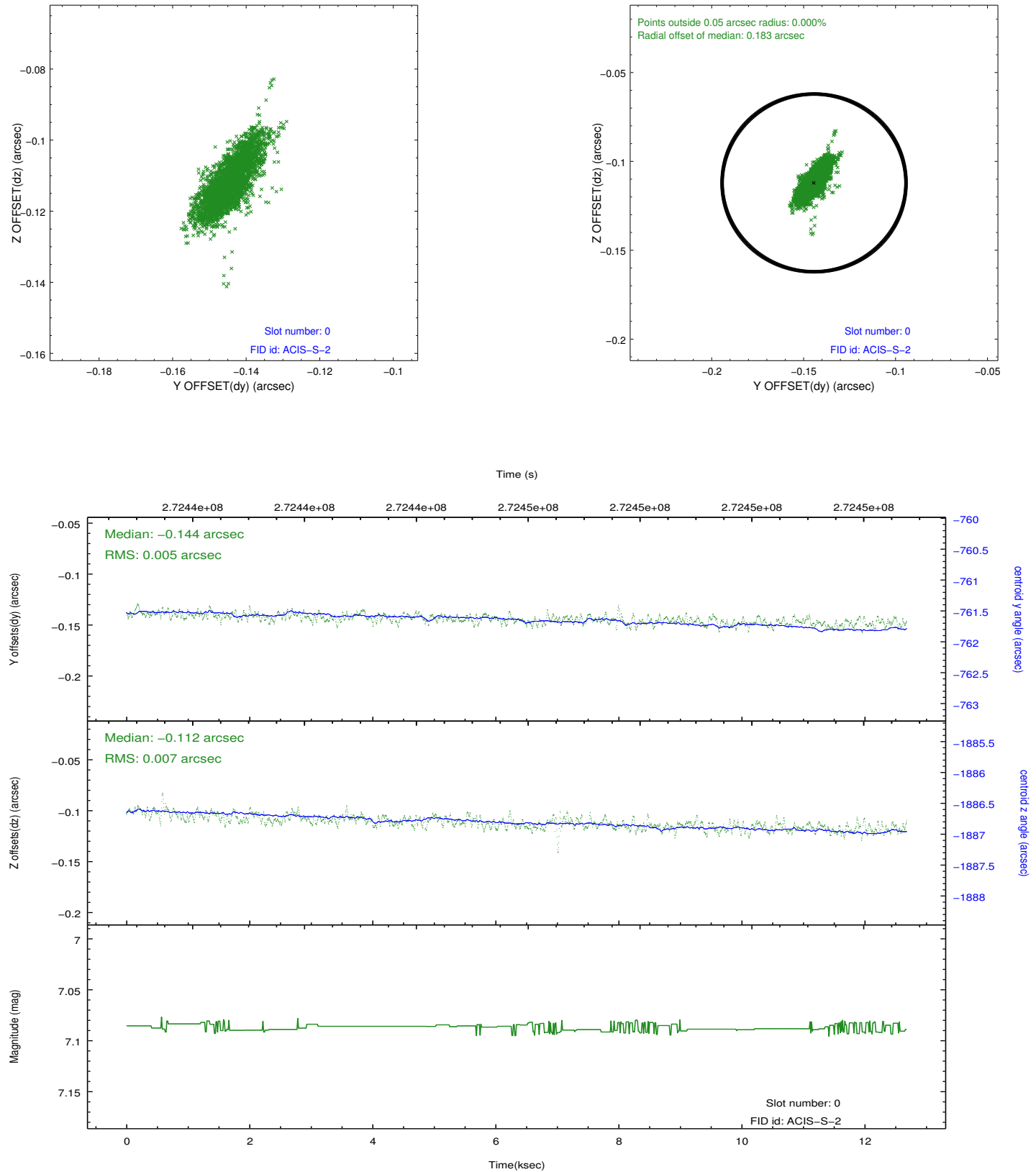


2.4.5 Slot 7

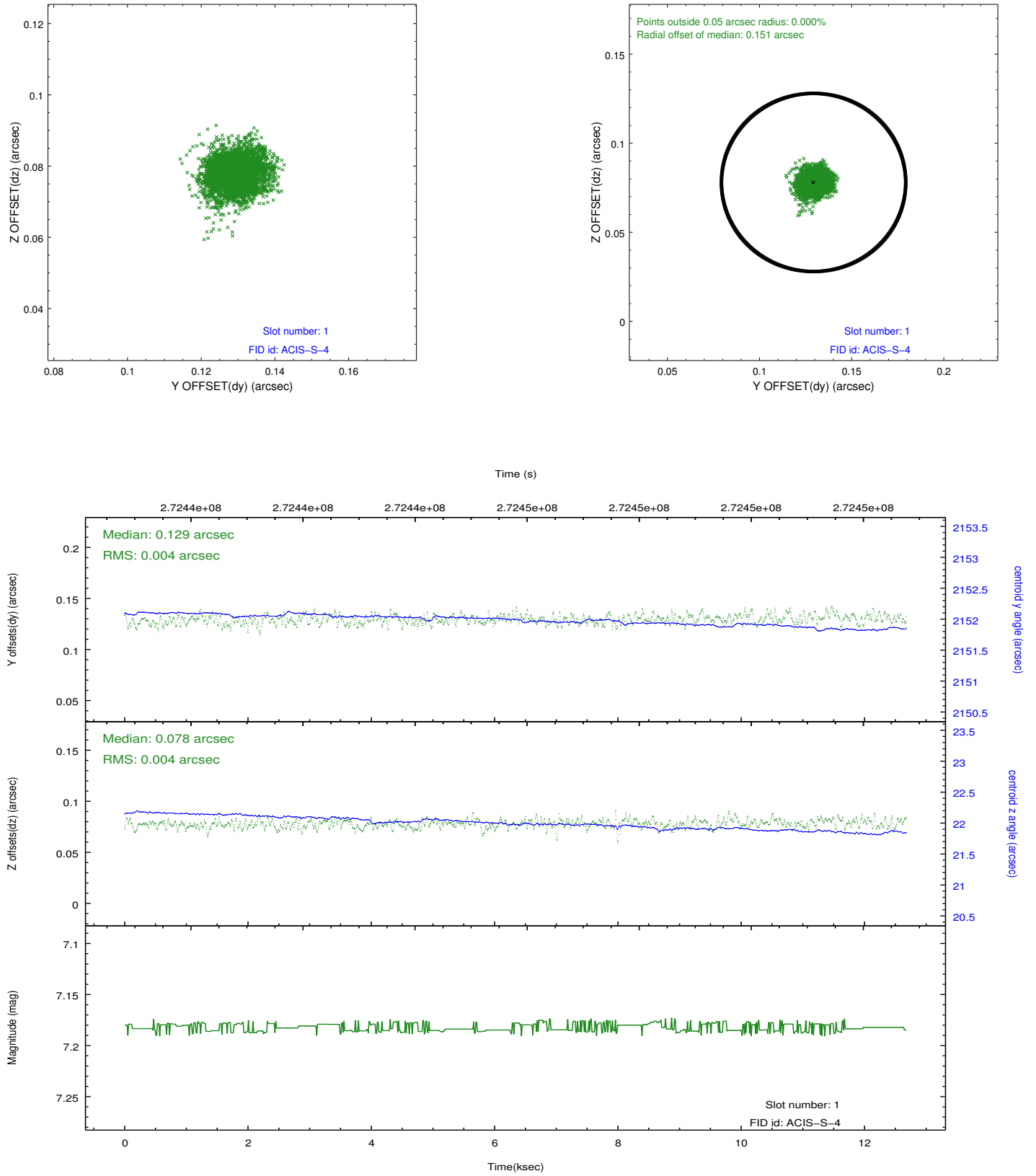


2.5 FID Slots

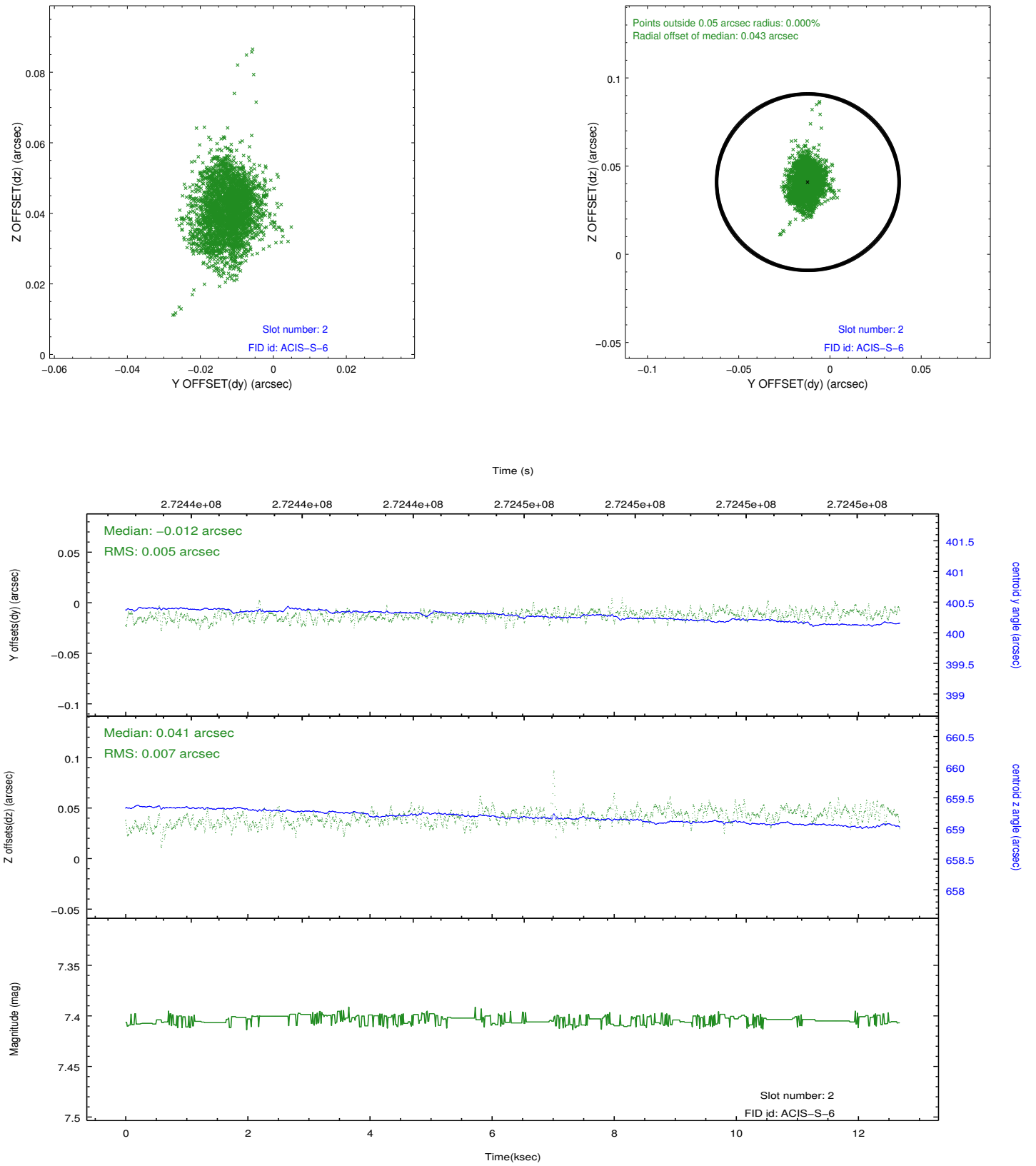
2.5.1 Slot 0



2.5.2 Slot 1

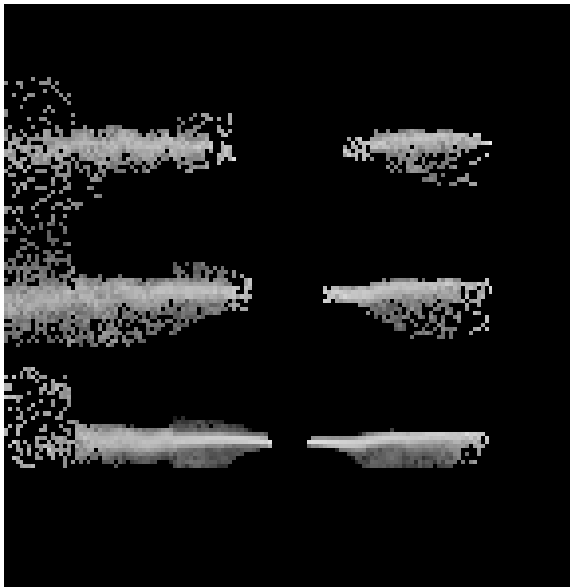


2.5.3 Slot 2

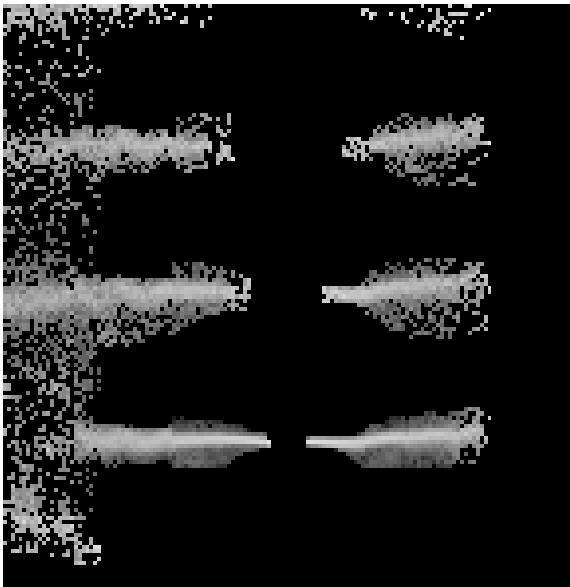


3 Gratings

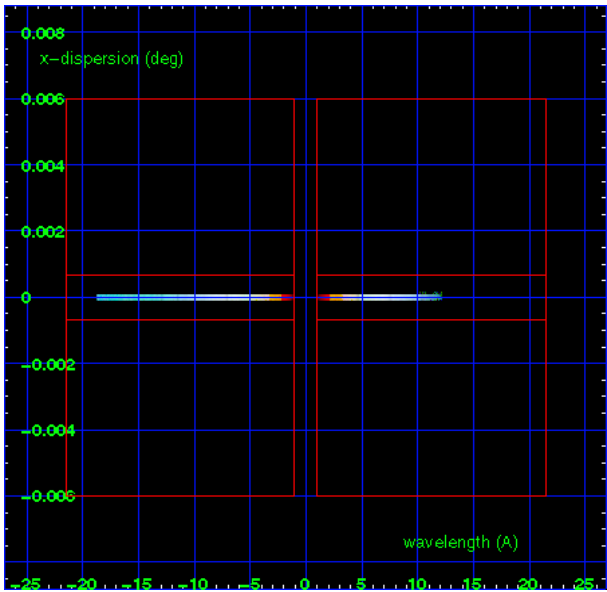
3.1 HEG Arm



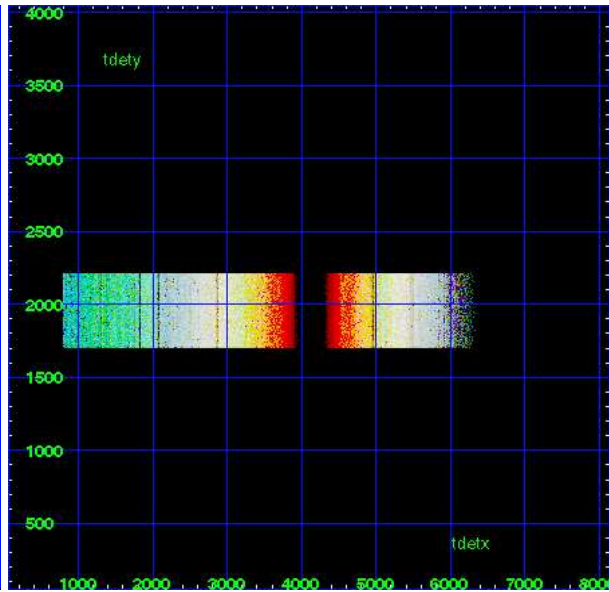
HEG Order Sort 123



HEG Order Sort ALL

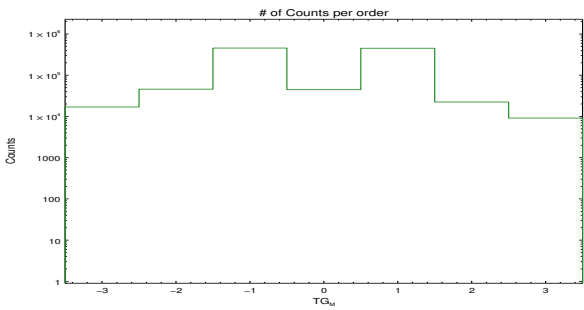


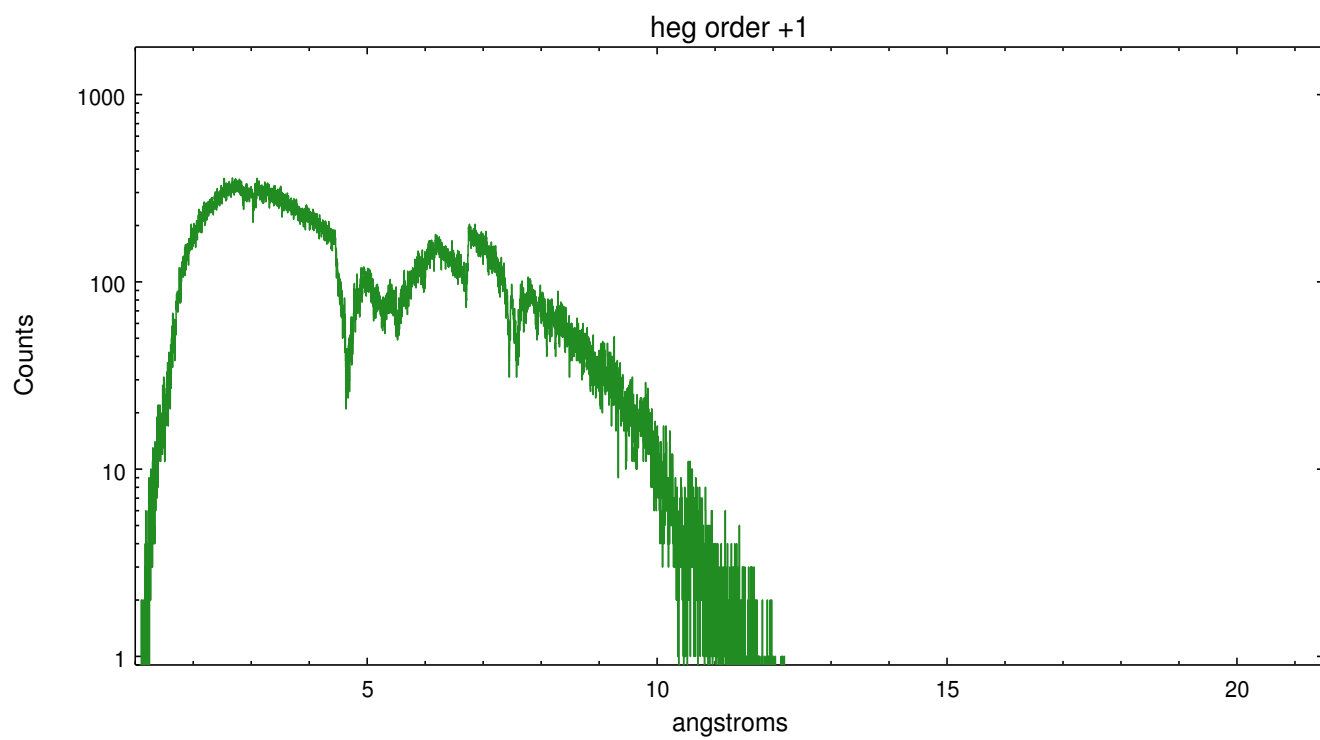
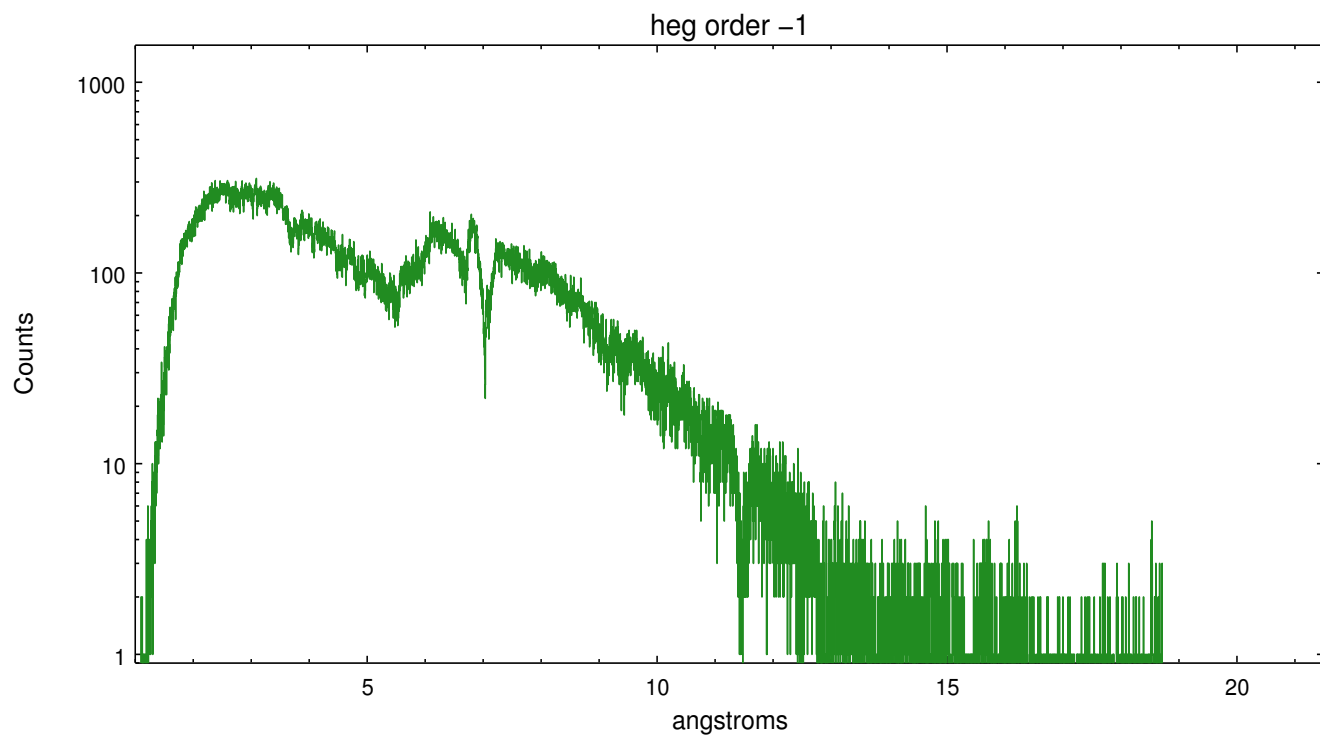
Spot Image HEG



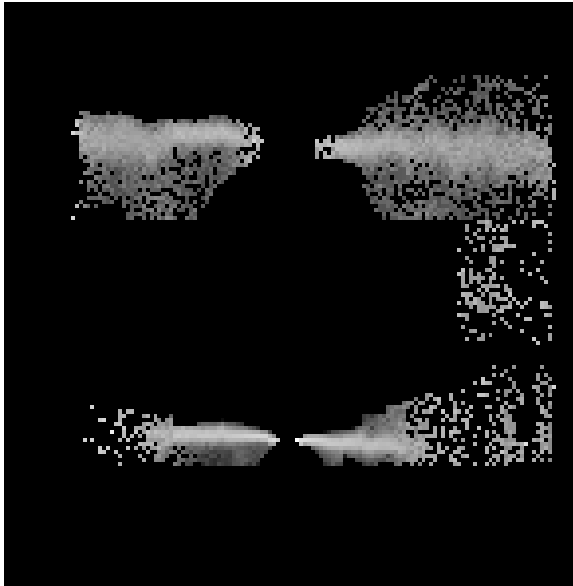
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	16962	45874	455502	44601	450888	22385	9135

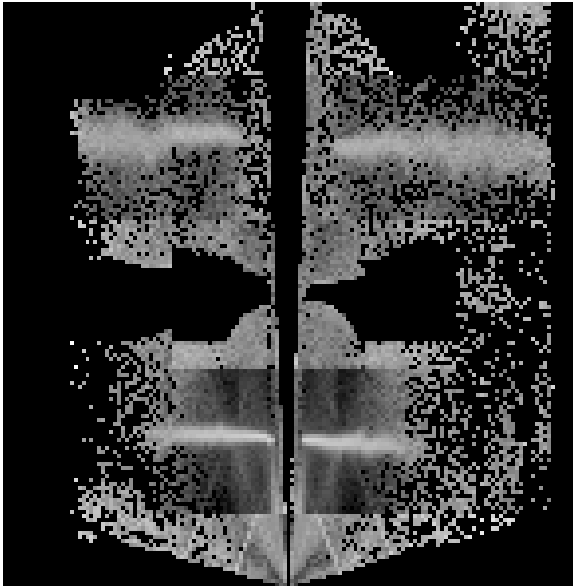




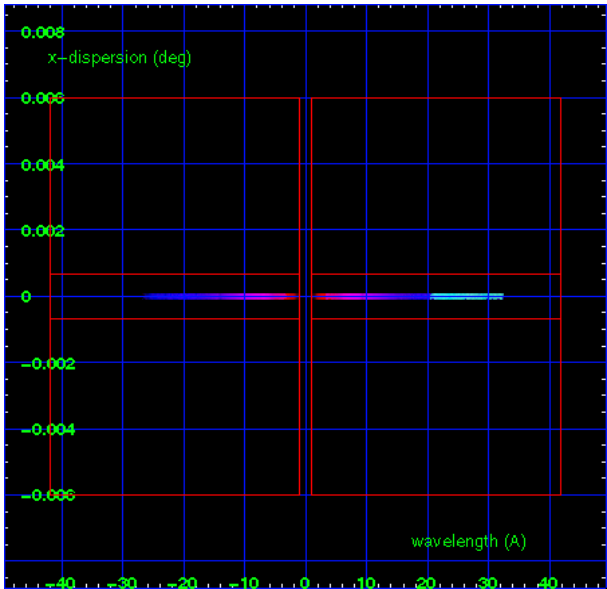
3.2 MEG Arm



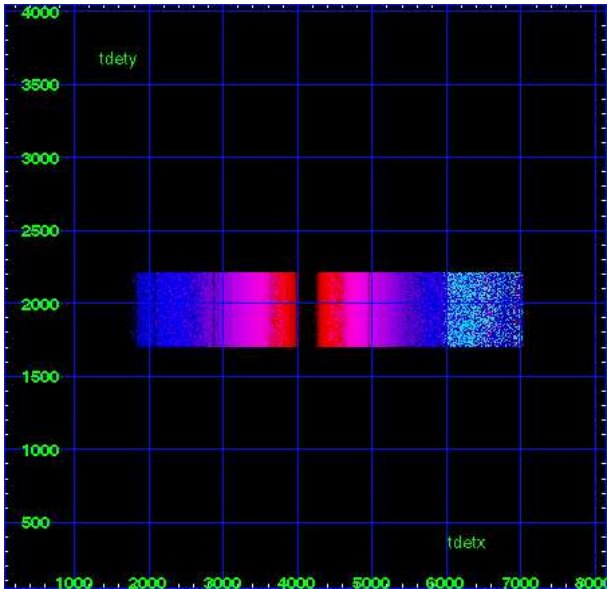
MEG Order Sort 123



MEG Order Sort ALL

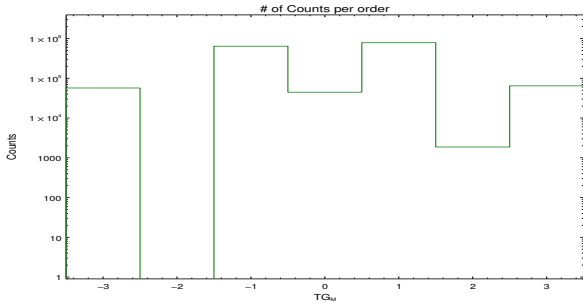


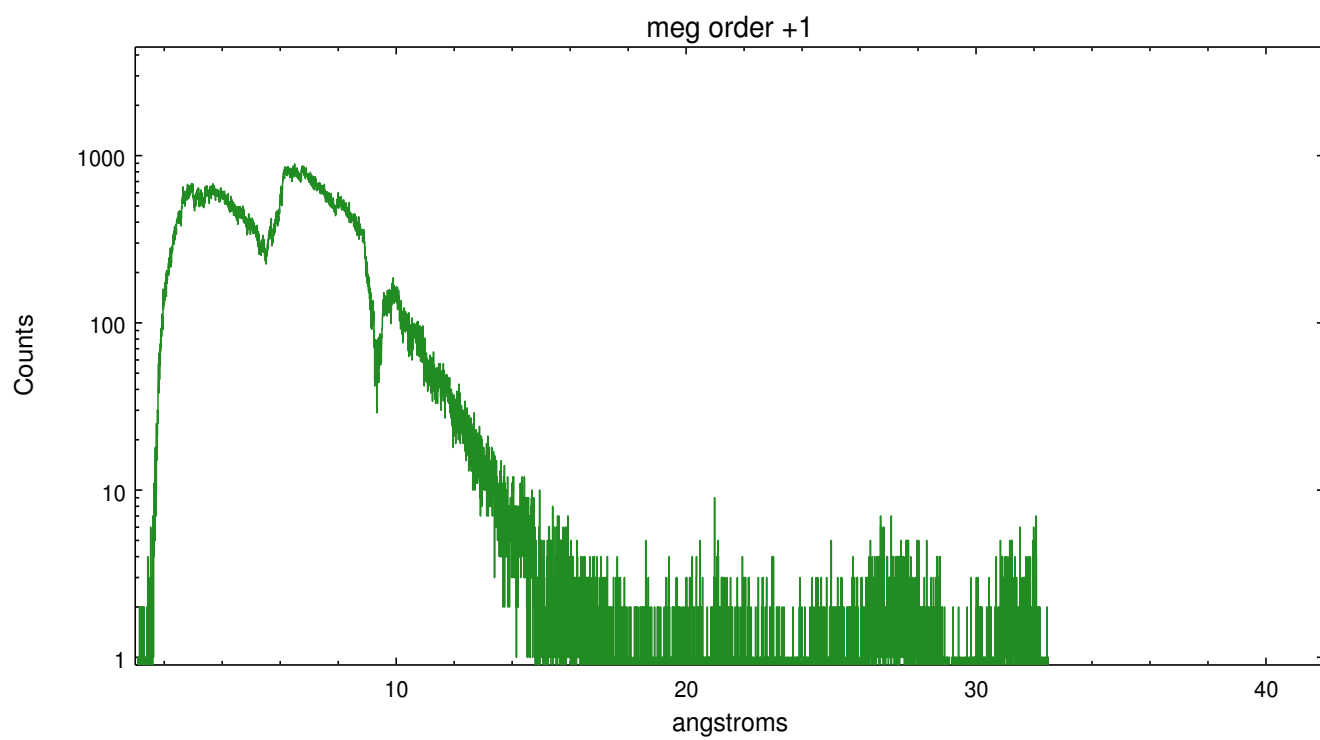
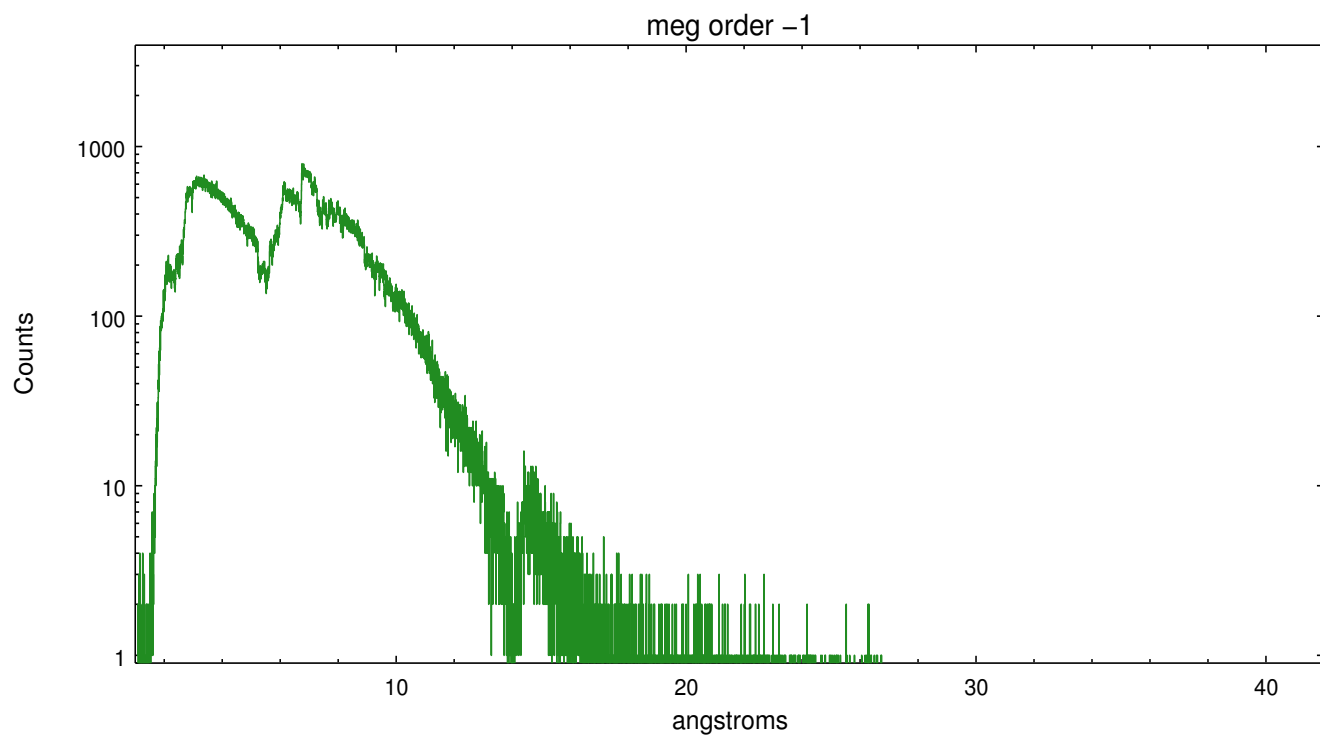
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	57008	0	639775	44601	786052	1866	64520





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.1108239

A.2 Comments