

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 601 - L2 Version 3
Chandra X-Ray Center

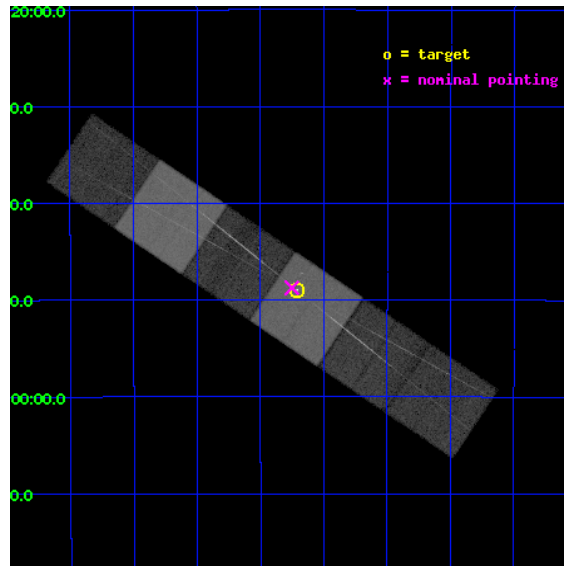
L2 Processing Date : Sep 6 2012

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1 Front

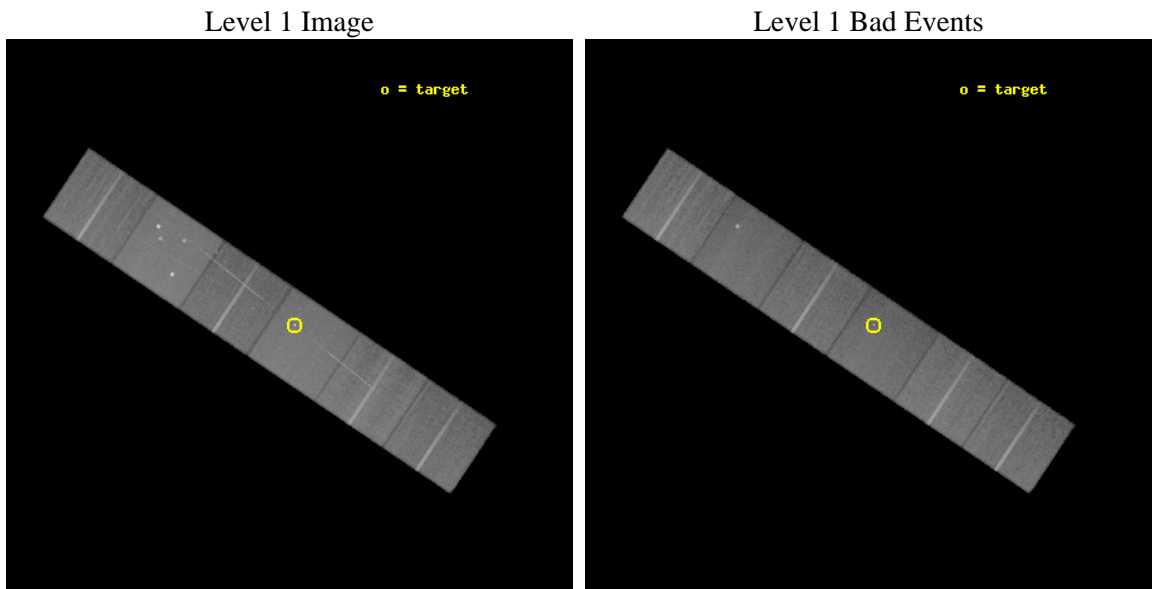
seq_num	200076	Sequence number
obs_id	601	Observation id
title	HIGH-RESOLUTION SPECTROSCOPY OF ACTIVE COOL STARS	Proposal title
observer	Prof Claude Canizares	Principal investigator
object	TY PYX (HD77137)	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	134.927917	Observer's specified target RA [deg]
dec_targ	-27.816306	Observer's specified target Dec [deg]
ra_nom	134.93811649189	Nominal RA [deg]
dec_nom	-27.812379803248	Nominal Dec [deg]
roll_nom	33.851115257619	Nominal Roll [deg]
revision	3	Processing version of data
ontime	49753.600046322	Sum of GTIs [s]
livetime	49123.590004514	Livetime [s]
ontime4	49753.600046322	Sum of GTIs [s]
ontime5	49753.600046322	Sum of GTIs [s]
ontime6	49753.600046322	Sum of GTIs [s]
ontime7	49753.600046322	Sum of GTIs [s]
ontime8	49750.348322451	Sum of GTIs [s]
ontime9	49753.548352391	Sum of GTIs [s]
l2events	468986	Number of level 2 events



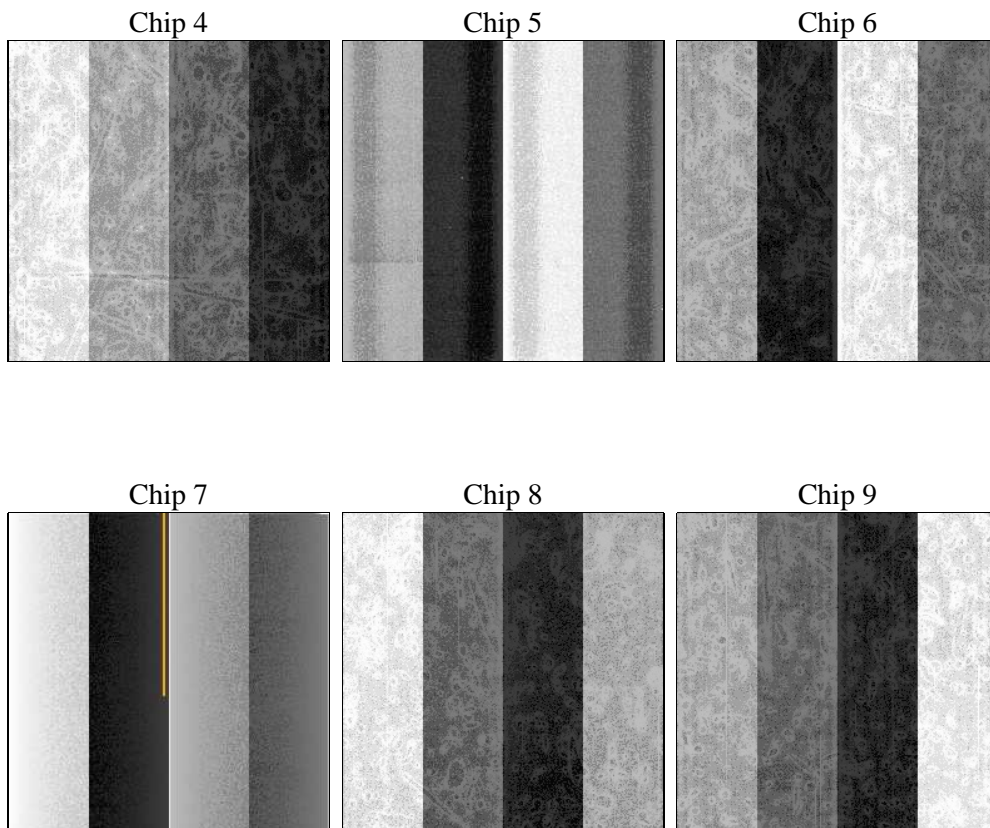
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	49753.600046322	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime4	49753.600046322	Sum of GTIs [s]
date	2012-09-06T10:01:29	Date and time of file creation	ontime5	49753.600046322	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	49753.600046322	Sum of GTIs [s]
			ontime7	49753.600046322	Sum of GTIs [s]
			ontime8	49750.348322451	Sum of GTIs [s]
			ontime9	49753.548352391	Sum of GTIs [s]
			l1events	2120160	Number of level 1 events

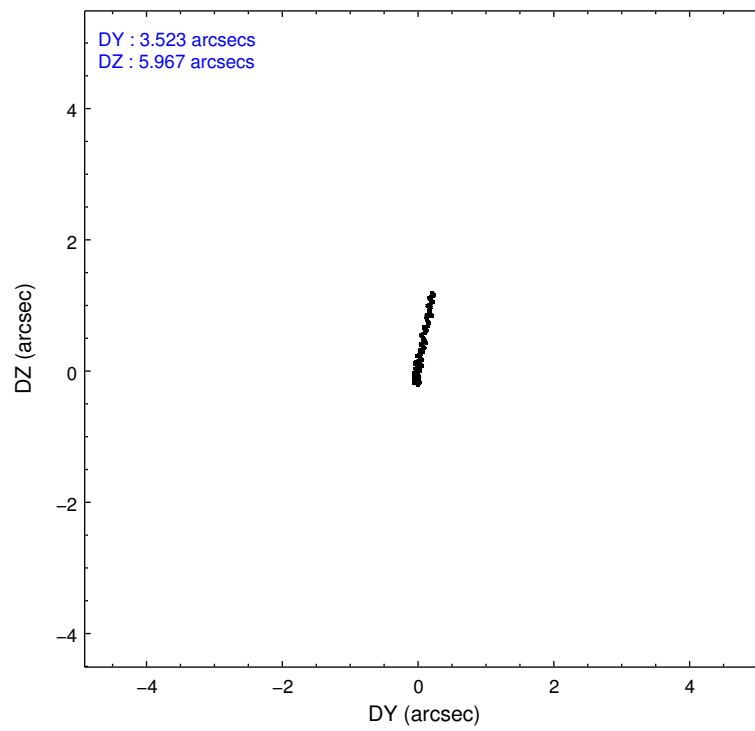
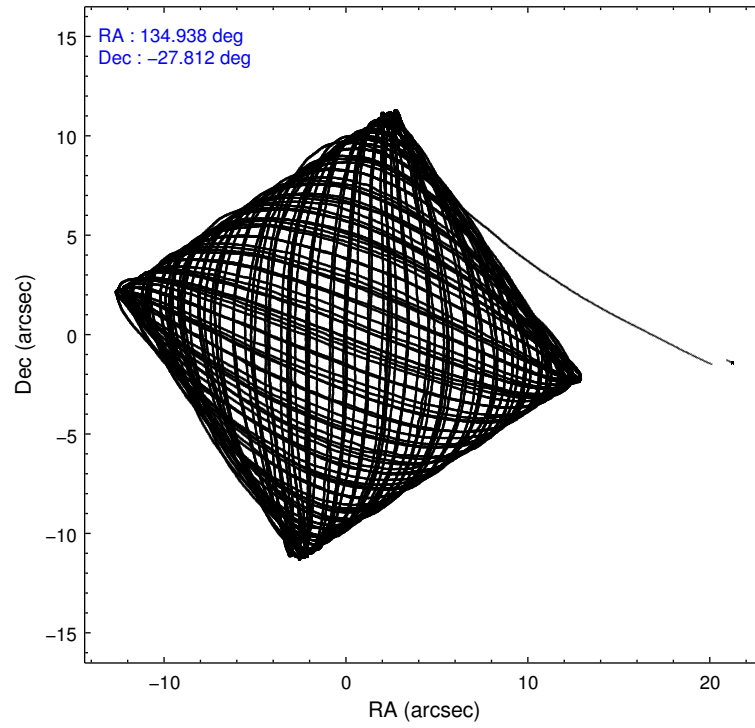
2.1.4 Events

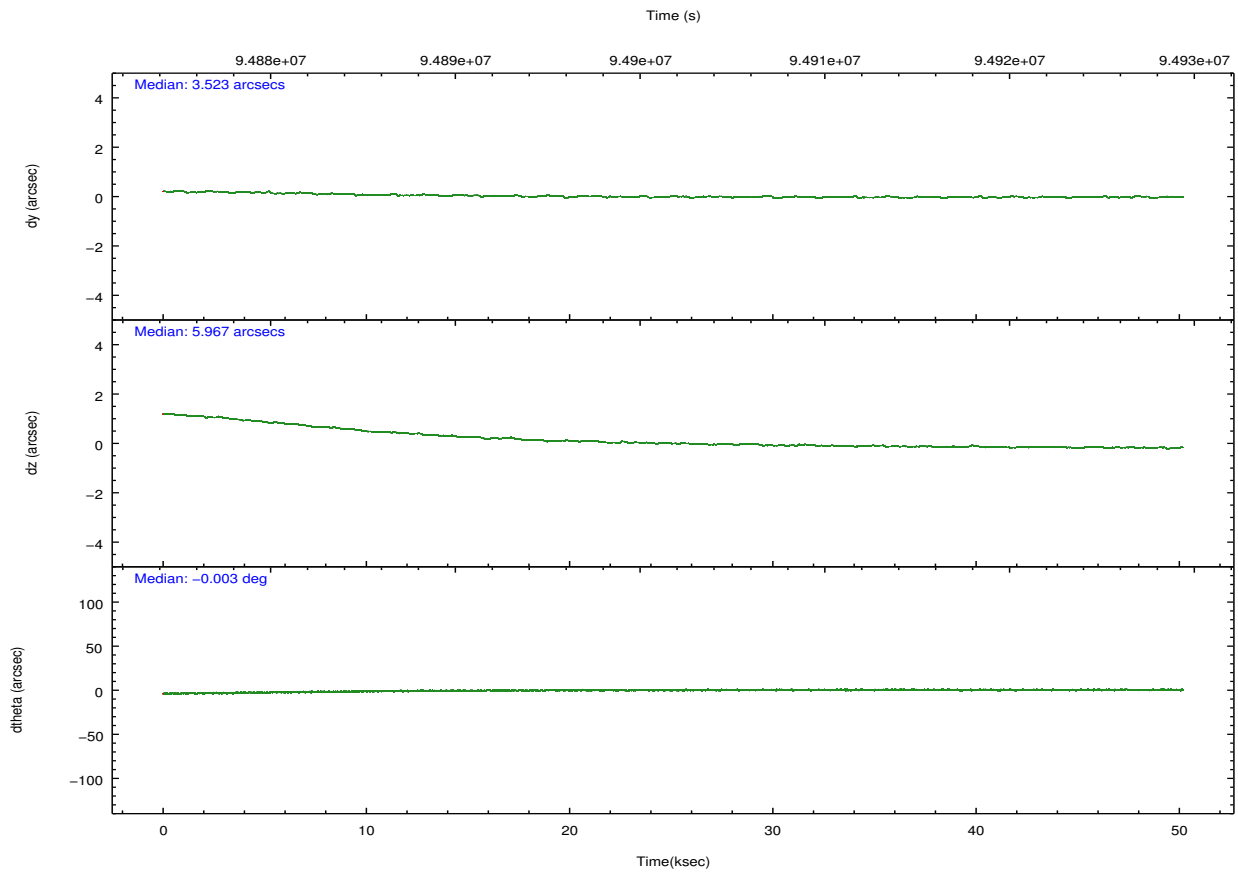
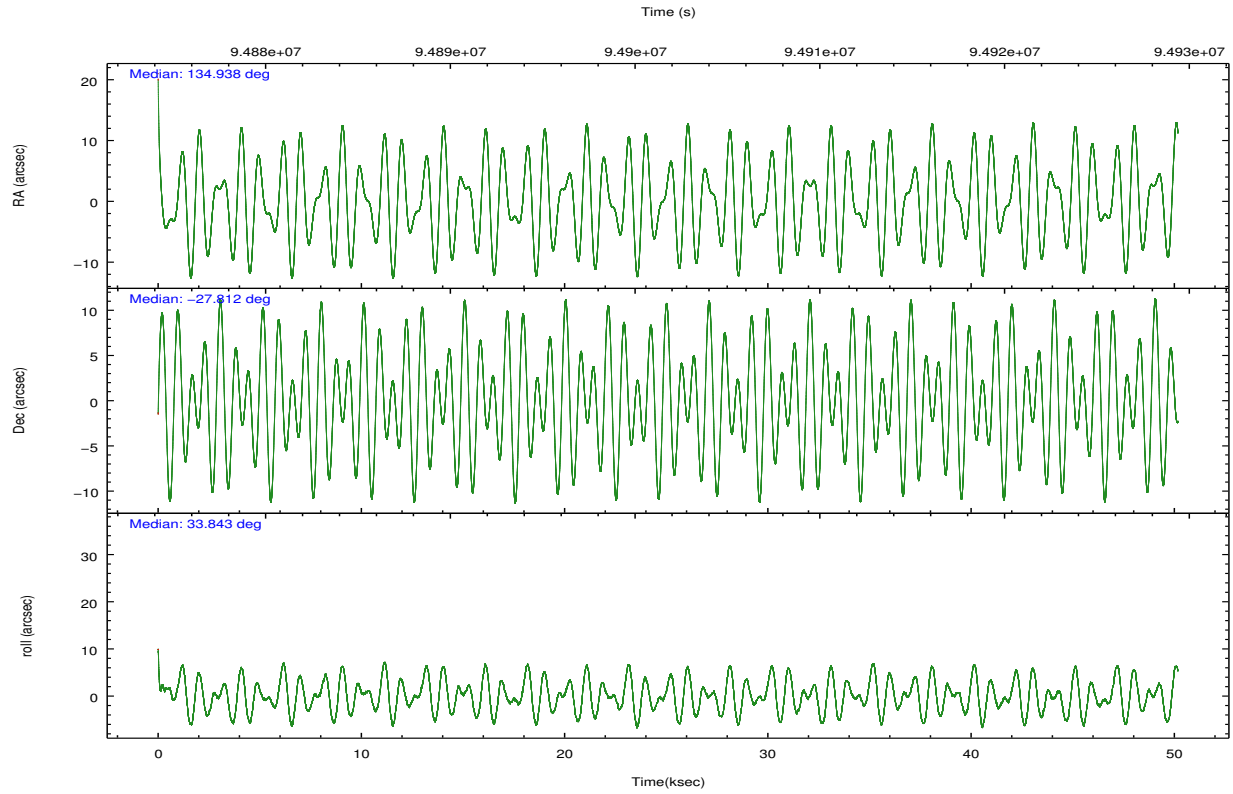
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	325728	427799	299522	388246	383389	295476	grade 0 events	14496	29714	20179	16560	28489	14618
rejected events	290608	226706	258080	223423	303283	260199		4%	6%	6%	4%	7%	4%
rejected %	89%	52%	86%	57%	79%	88%	grade 1 events	166	495	166	567	225	129
								0%	0%	0%	0%	0%	0%
							grade 2 events	8260	58919	7399	32696	16520	7088
								2%	13%	2%	8%	4%	2%
							grade 3 events	3233	7895	3608	15318	8256	3440
								0%	1%	1%	3%	2%	1%
							grade 4 events	3067	7765	3447	14996	7546	3273
								0%	1%	1%	3%	1%	1%
							grade 5 events	10441	31606	12417	37111	15704	12559
								3%	7%	4%	9%	4%	4%
							grade 6 events	6070	96832	6814	85279	19304	6863
								1%	22%	2%	21%	5%	2%
							grade 7 events	279995	194573	245492	185719	287345	247506
								85%	45%	81%	47%	74%	83%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	134.924725	134.9381164918944	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.837014	-27.81237980324767	Alternating exposures requested	N	N
[deg] Pointing Roll	33.688237	33.85111525761931	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
Phase constraints	Y	Y			
[d] Phase period	3.198584	3.198584			
[d] Phase epoch (MJD)	49945.333889	49945.333889			
Phase start	0.910000	0.910000			
Phase end	0.090000	0.090000			
Phase start error	0.020000	0.020000			
Phase end error	0.020000	0.020000			
[s] Observation start time (MET)	94876872.184000	94875932.84572899			
Observation start date	2001-01-03T02:40:08	2001-01-03T02:25:32			
[s] Observation end time (MET)	94926872.184000	94927569.785208			
Observation end date	2001-01-03T16:33:28	2001-01-03T16:46:09			
Read mode	TIMED	TIMED			

2.3 Aspect



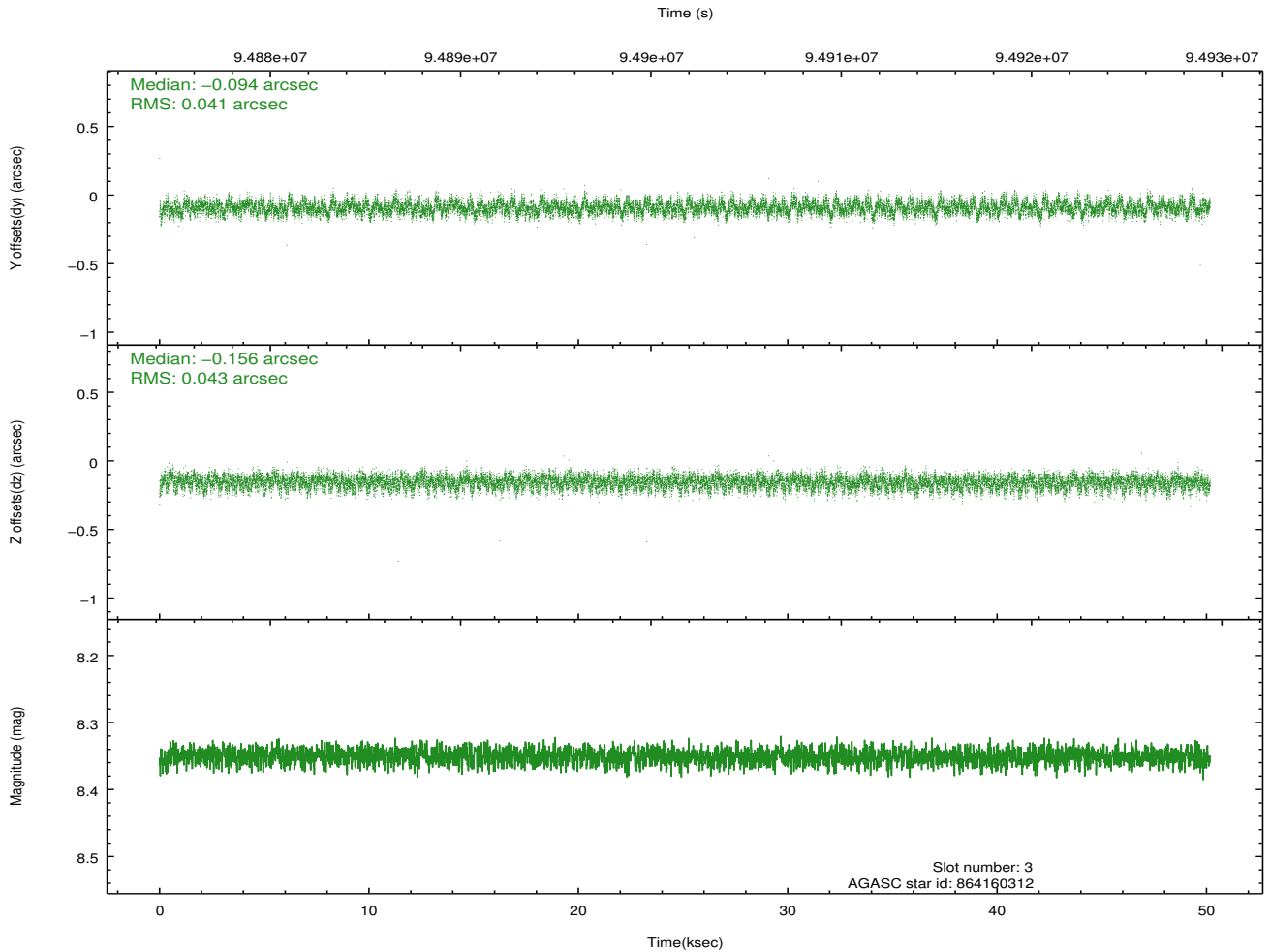
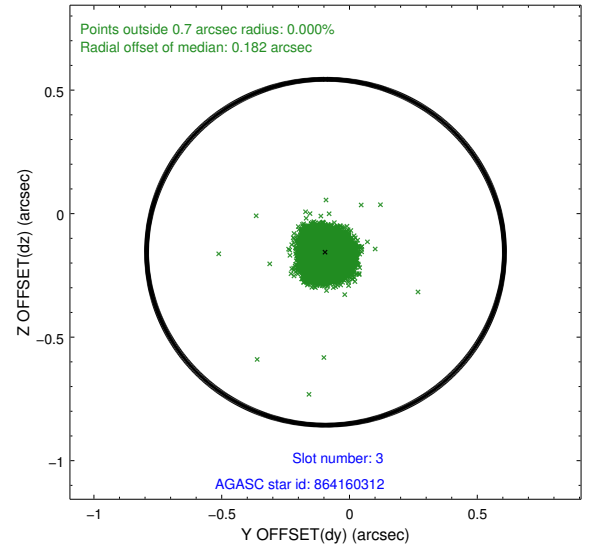
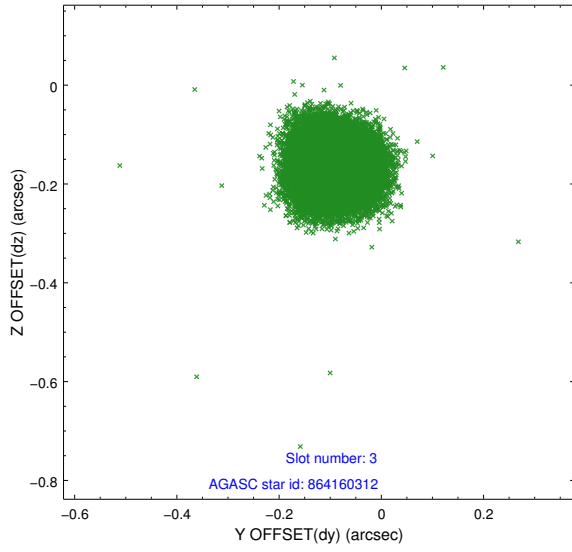


Slot Statistics

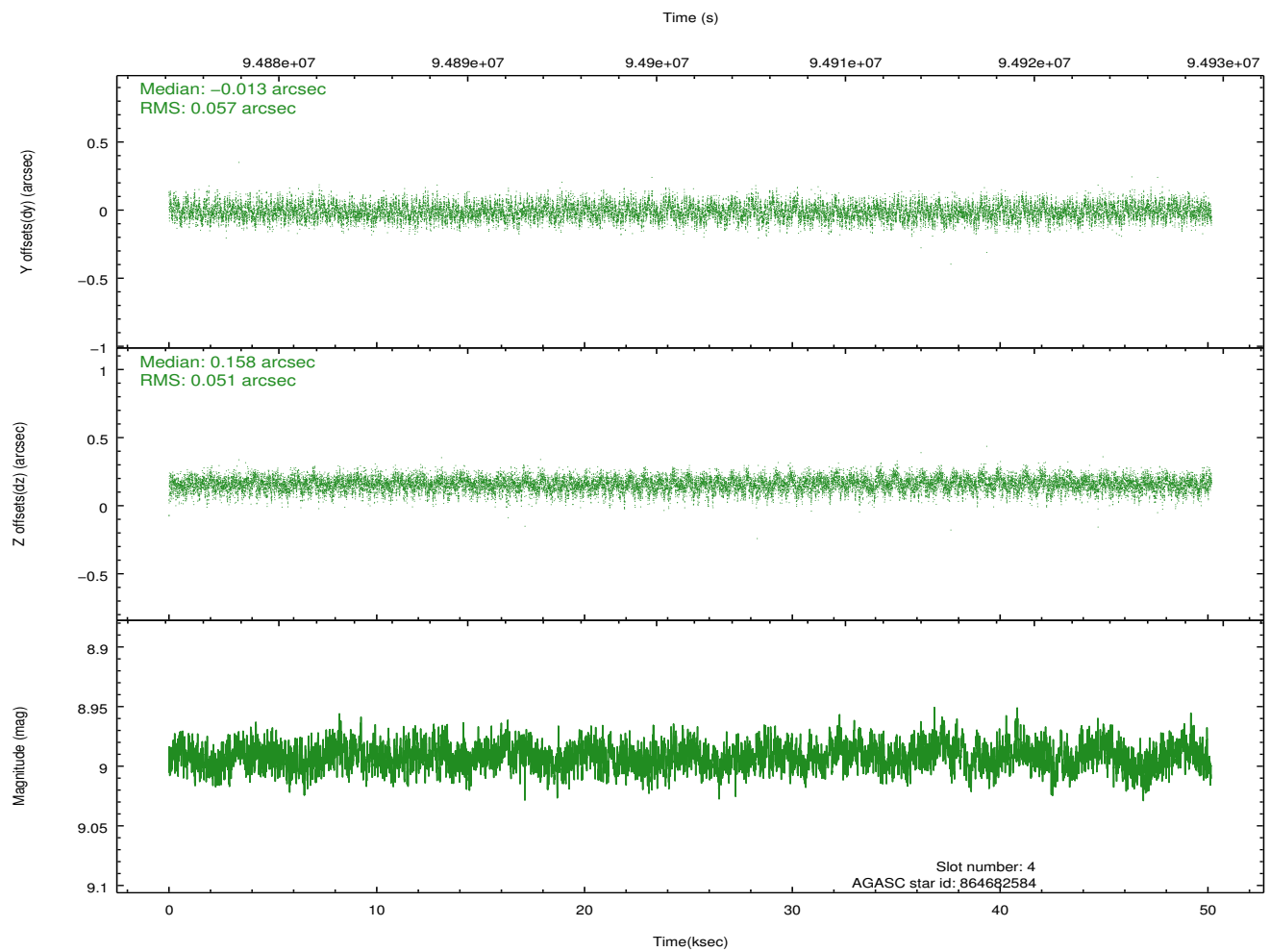
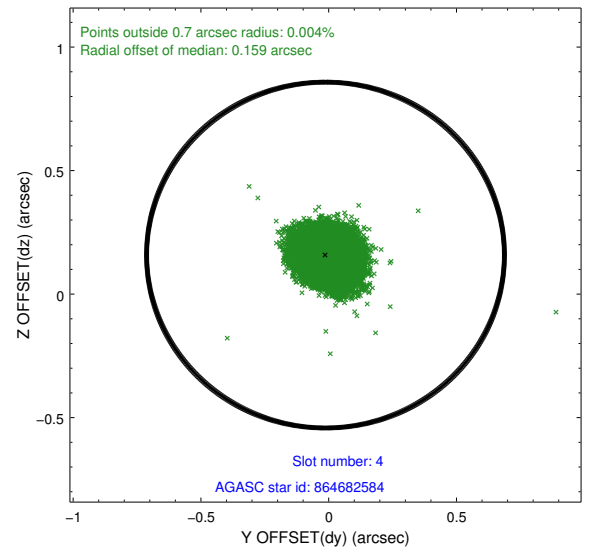
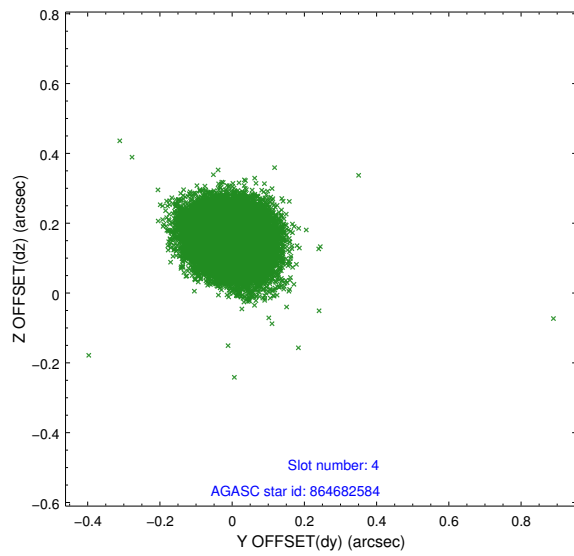
	status	id	mag	n_pts	med_dy	med_dz	dr1
	FID	ACIS-S-2	7.10	12234	-0.020	-0.056	0.009
	FID	ACIS-S-4	7.19	12231	0.001	0.025	0.009
	FID	ACIS-S-5	7.24	12231	-0.012	0.040	0.008
	GUIDE	864160312	8.35	24462	-0.094	-0.156	0.064
	GUIDE	864682584	8.99	24463	-0.013	0.158	0.082
	GUIDE	864698304	8.62	24464	0.070	0.126	0.071
	GUIDE	864162152	9.03	24451	0.036	-0.131	0.060
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00	

2.4 Star Slots

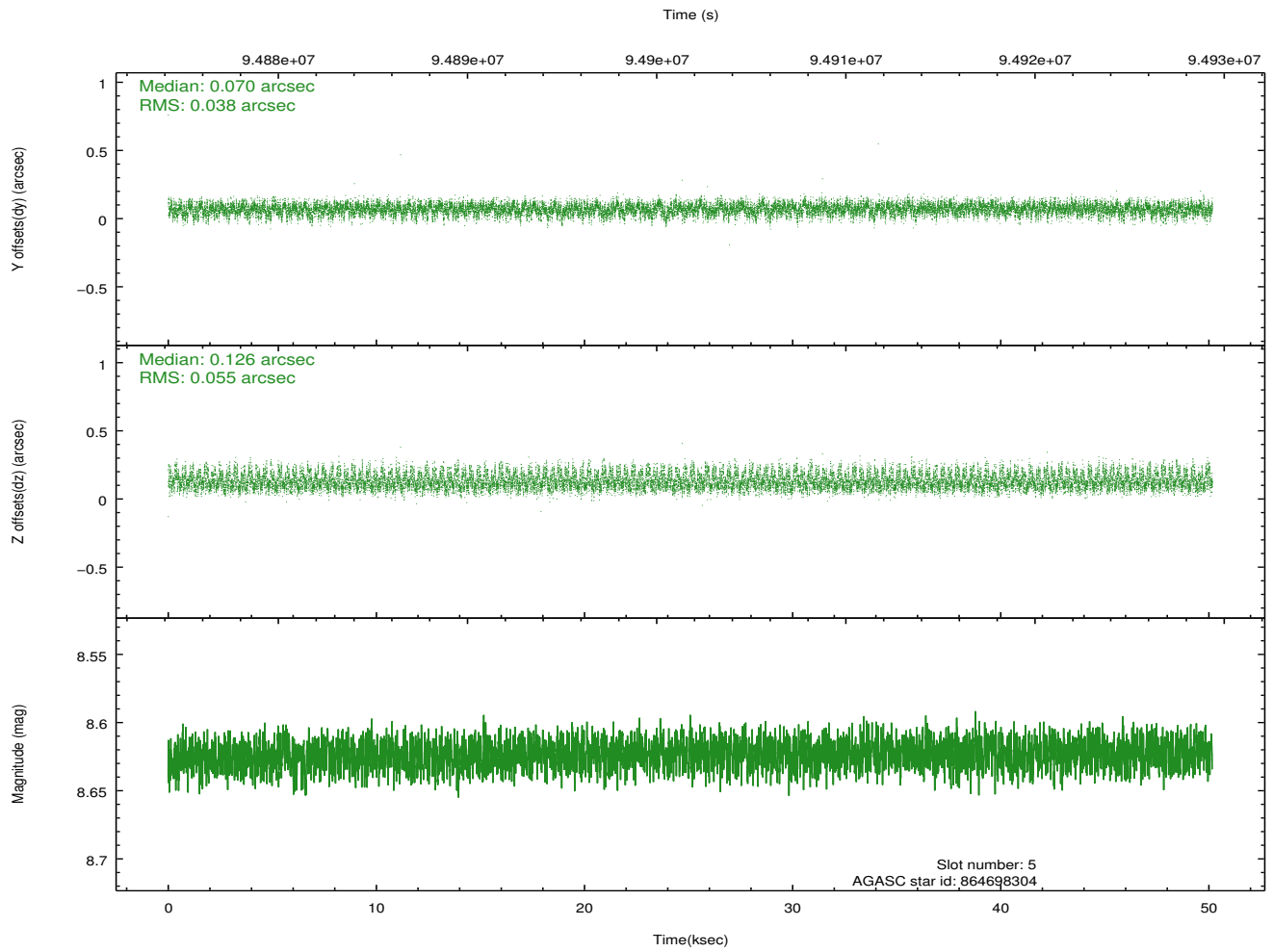
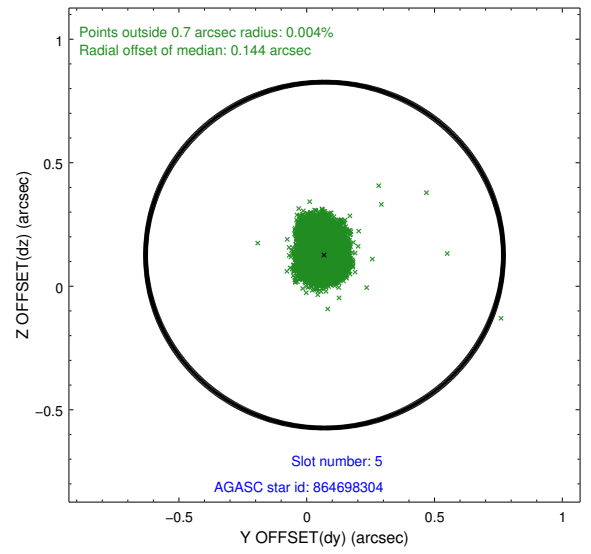
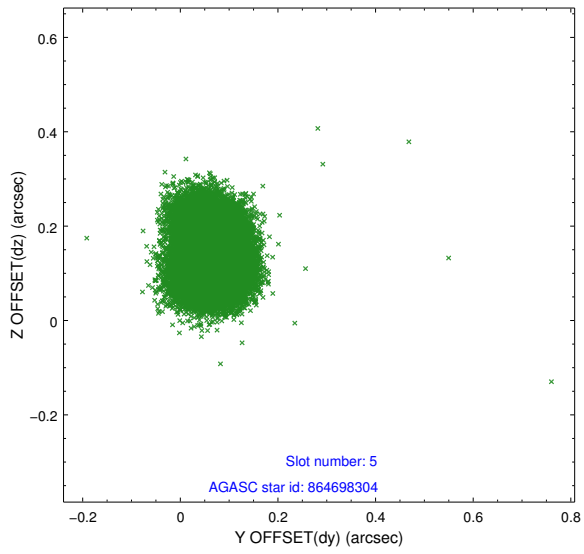
2.4.1 Slot 3



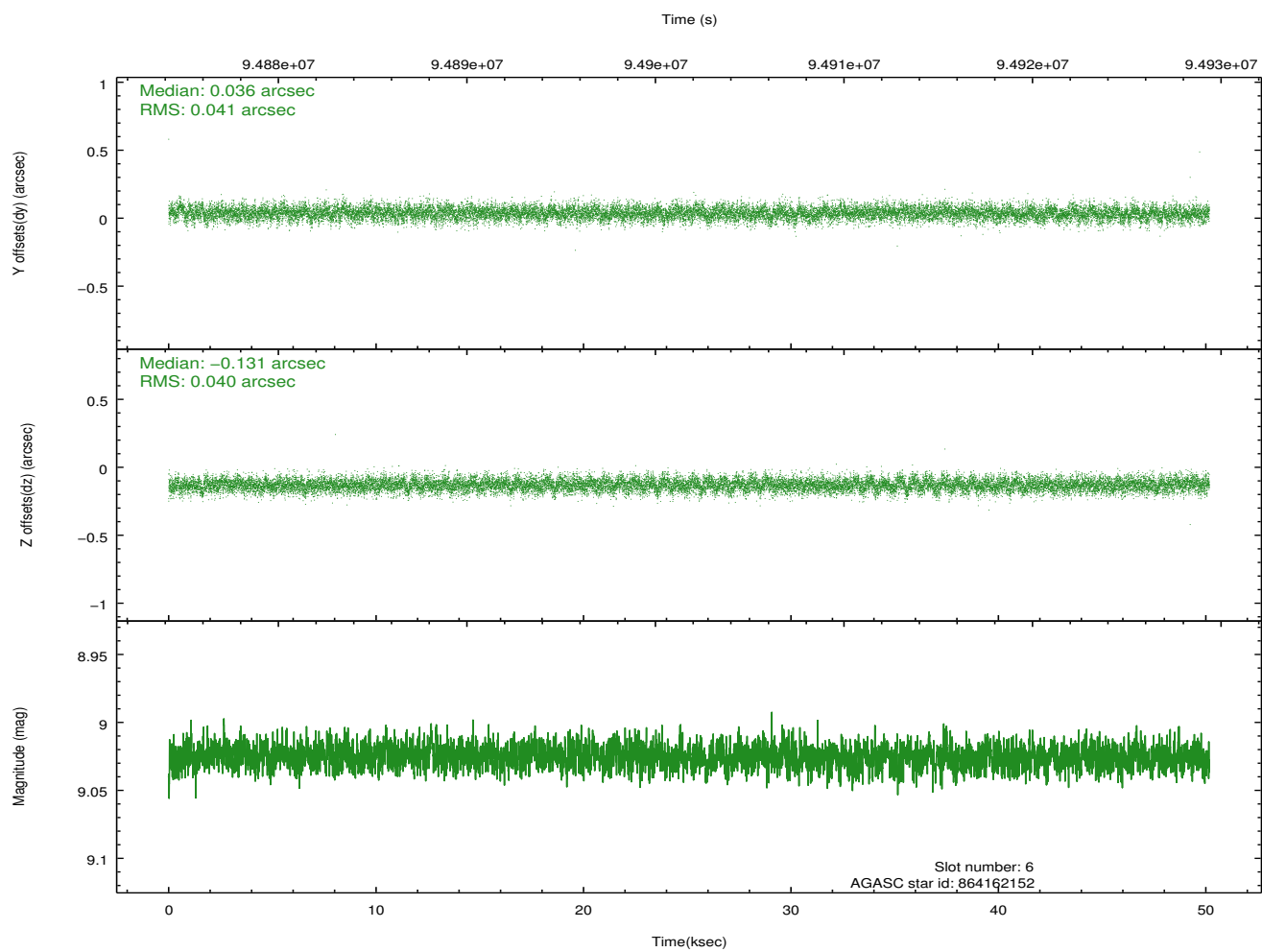
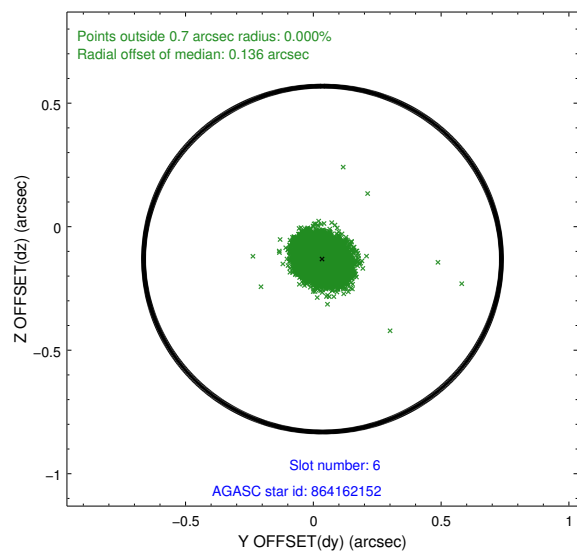
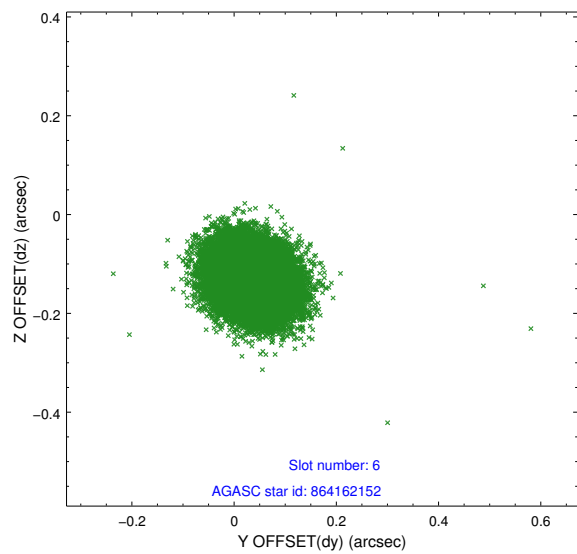
2.4.2 Slot 4



2.4.3 Slot 5

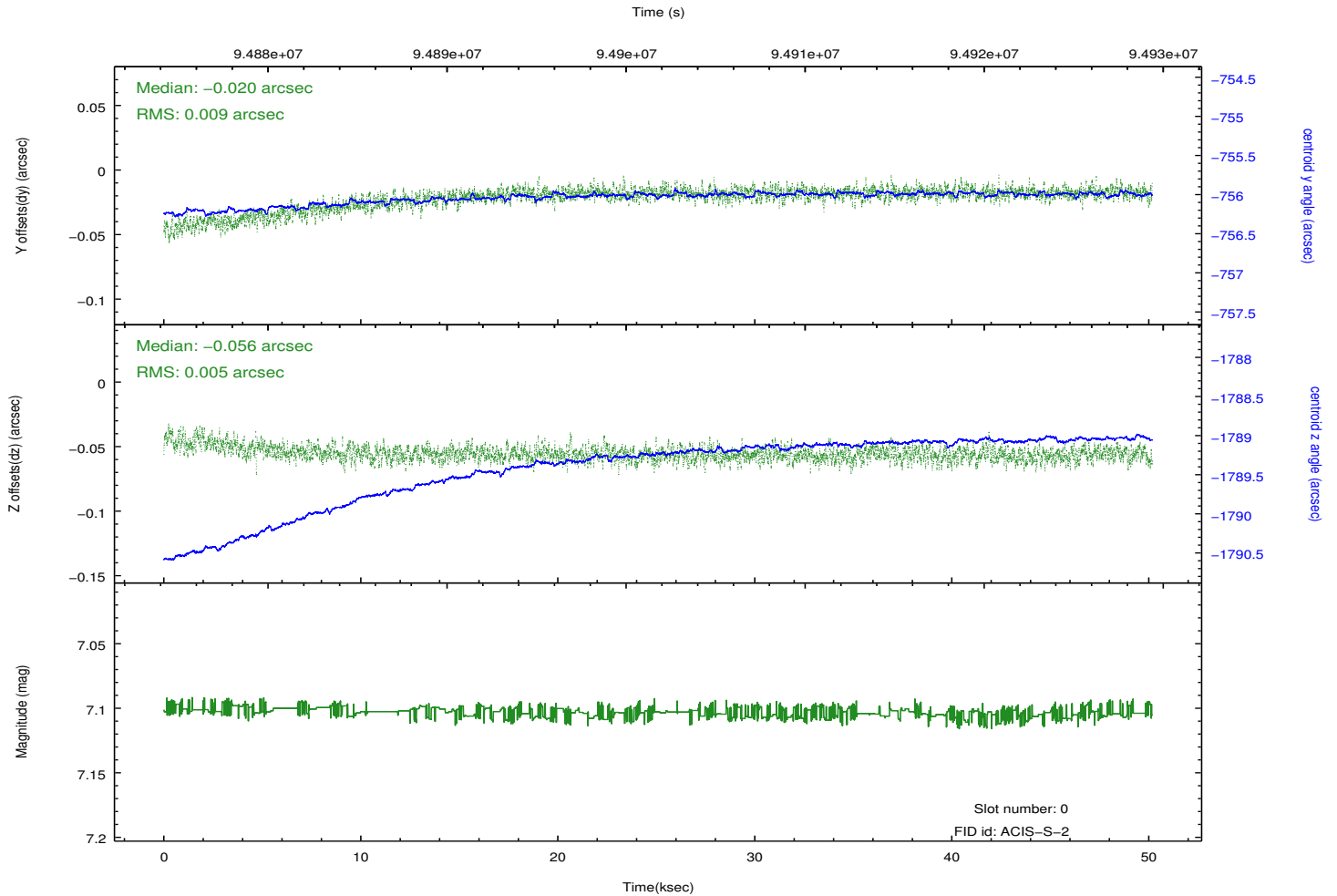
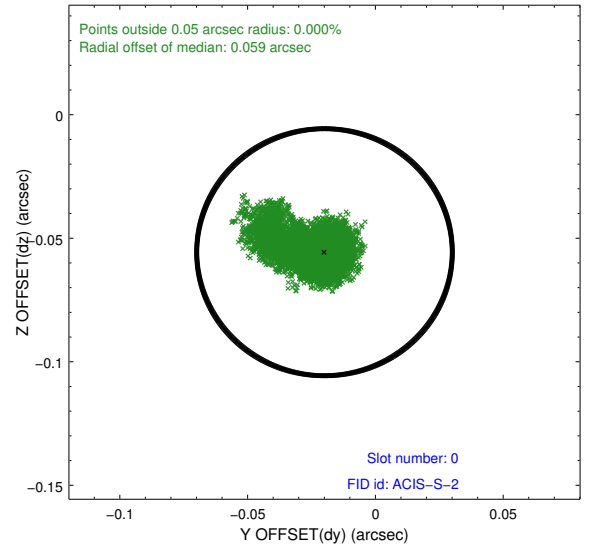
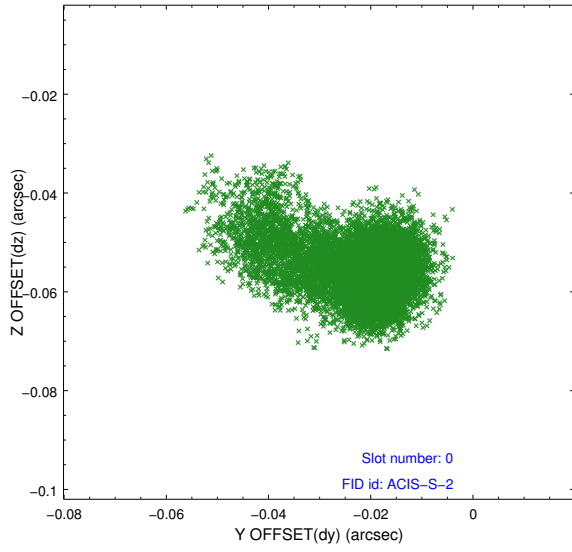


2.4.4 Slot 6

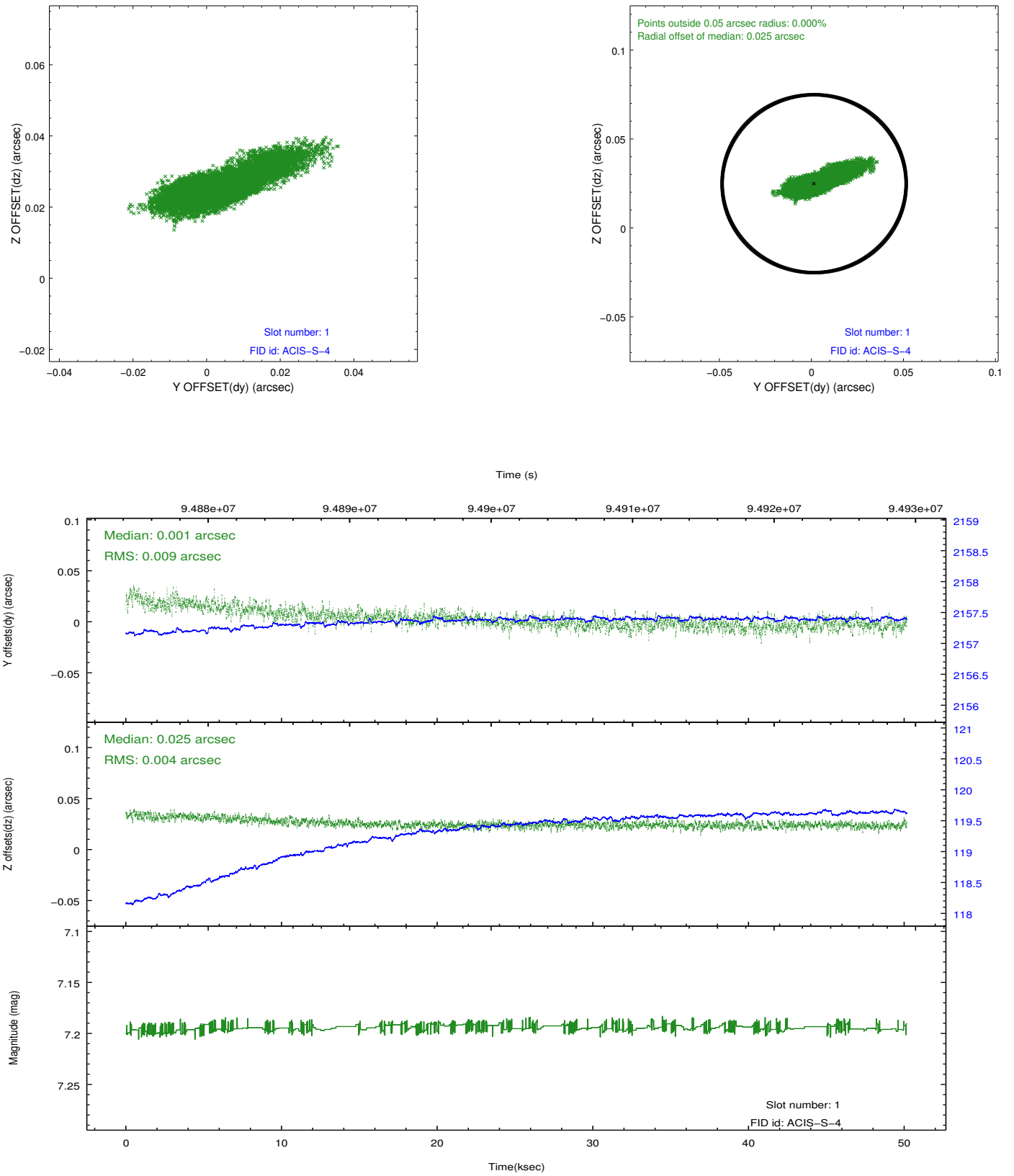


2.5 FID Slots

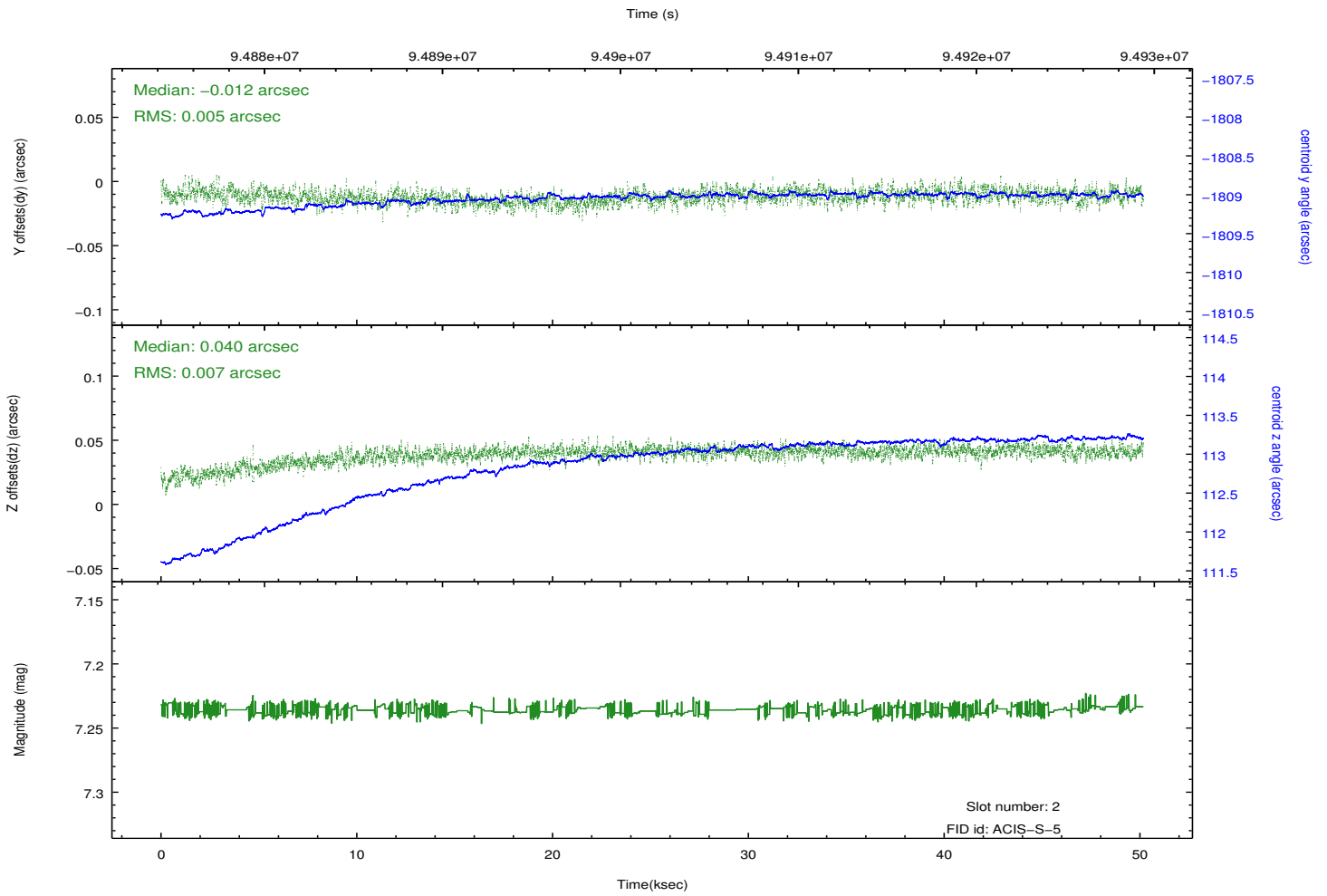
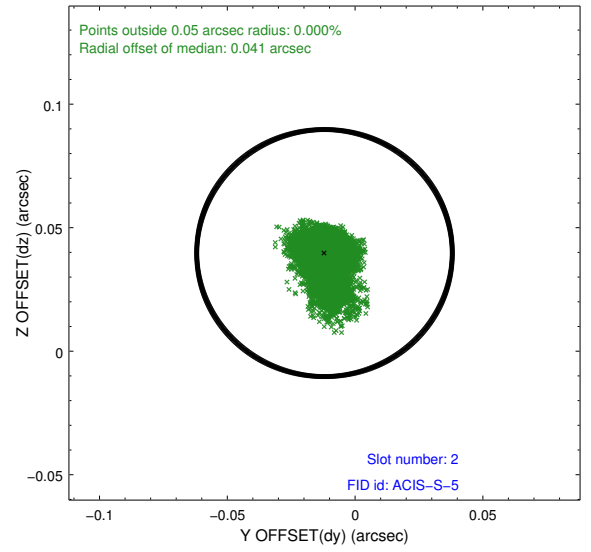
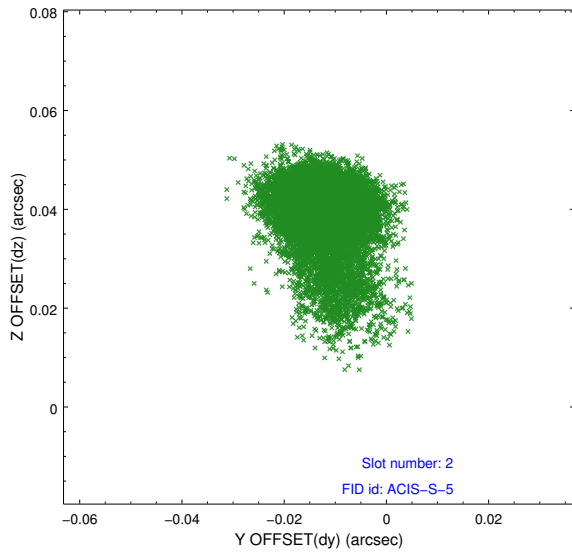
2.5.1 Slot 0



2.5.2 Slot 1

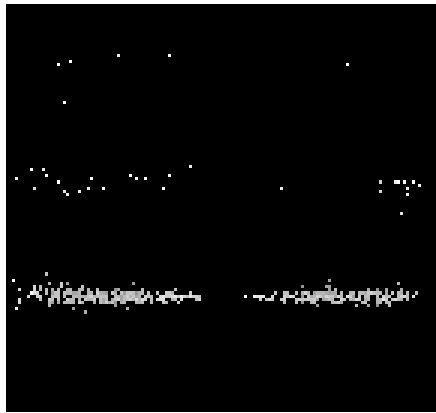


2.5.3 Slot 2

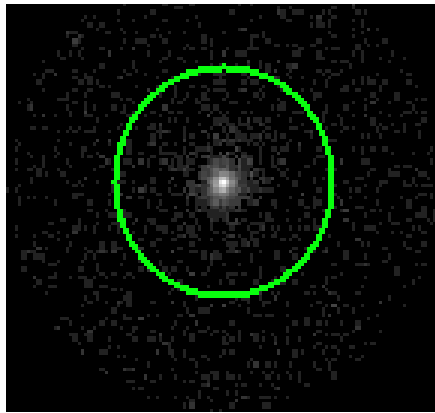


3 Gratings

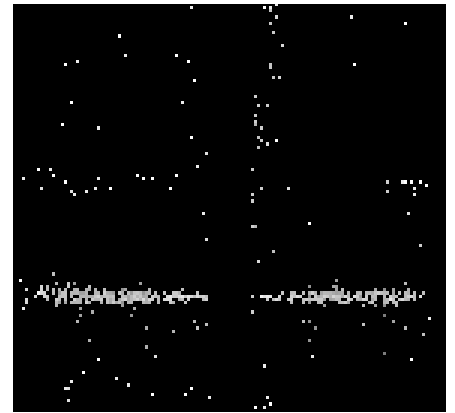
3.1 HEG Arm



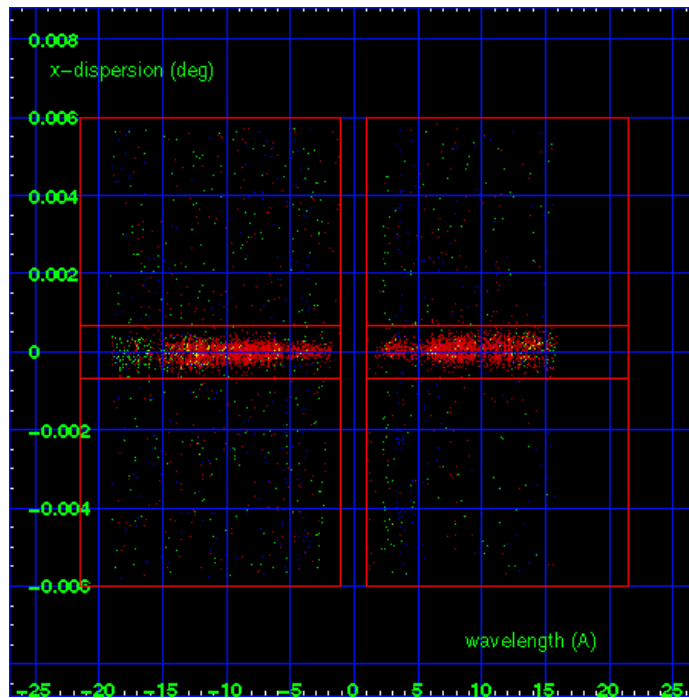
HEG Order Sort 123



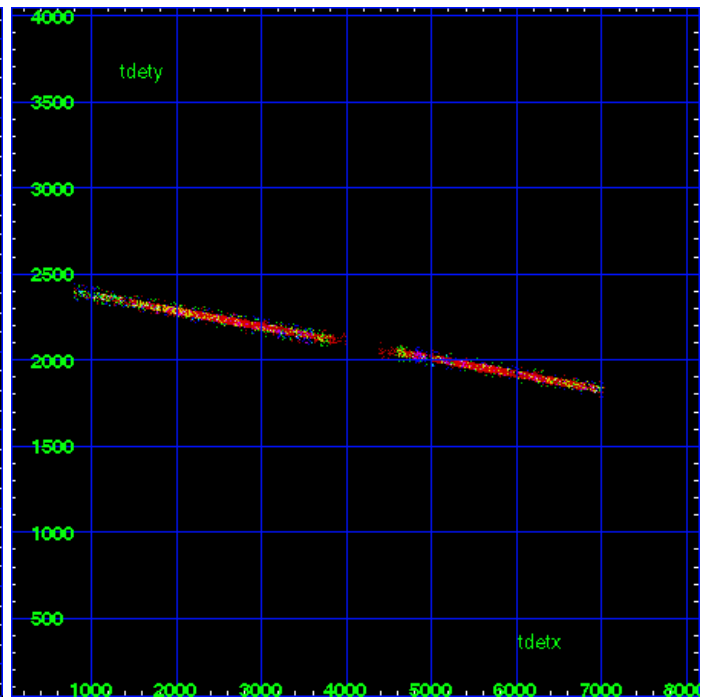
HEG Zero Order



HEG Order Sort ALL

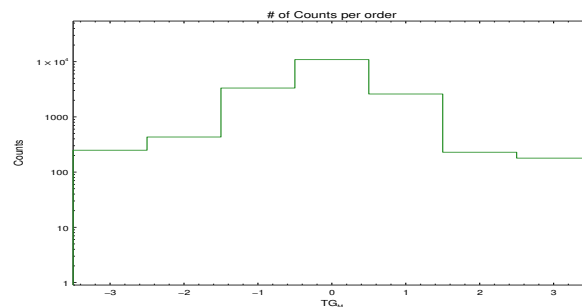


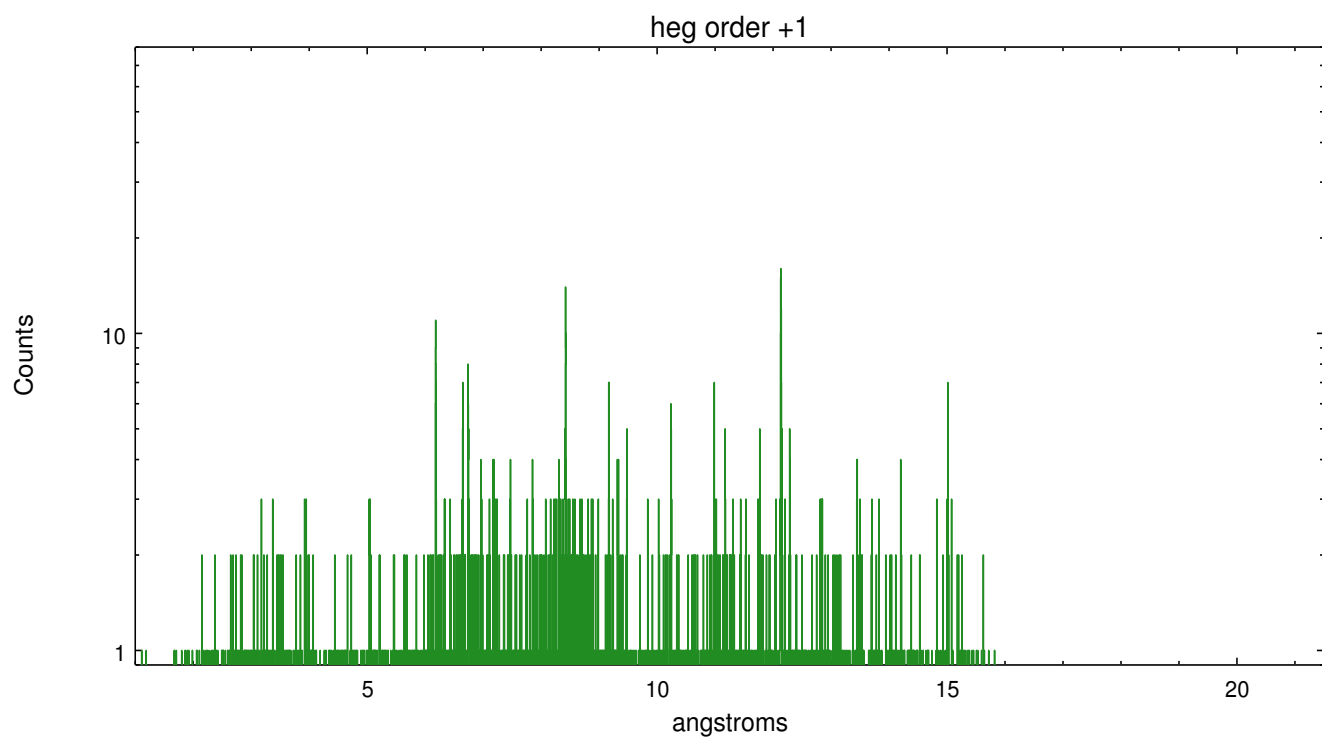
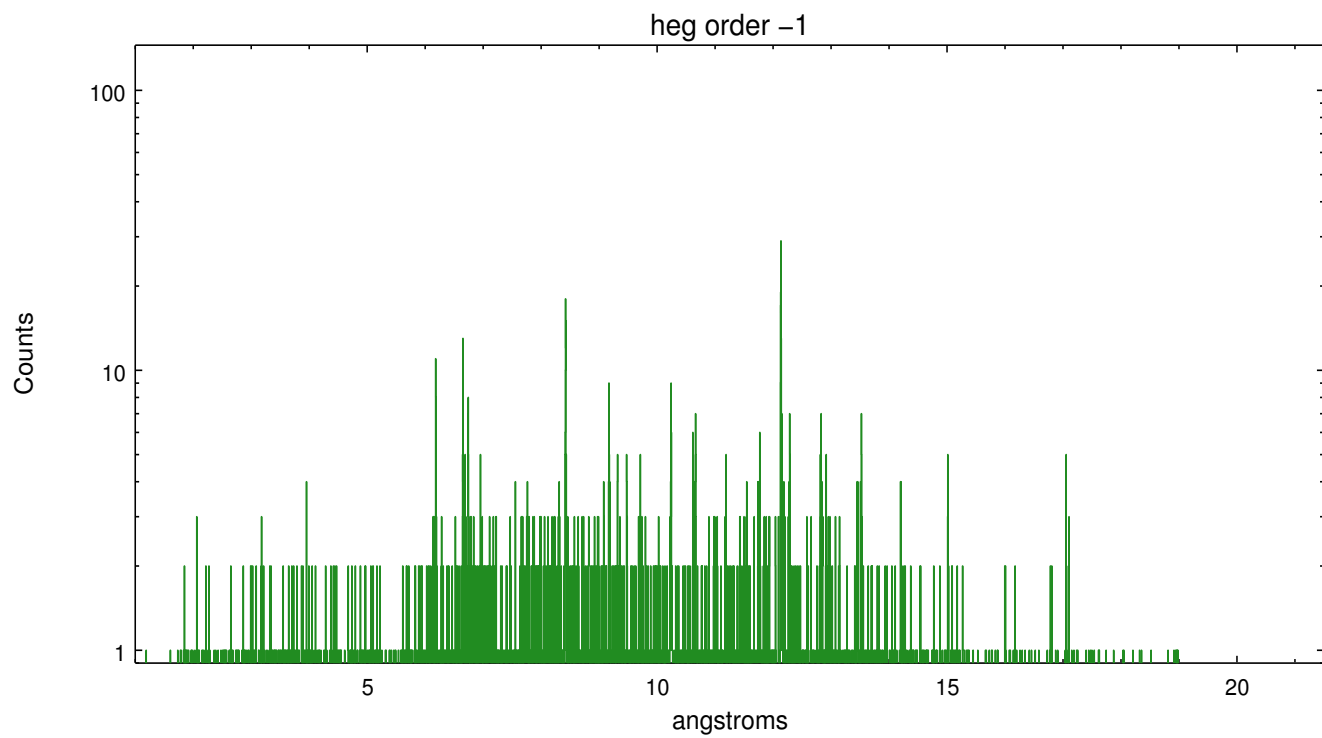
Spot Image HEG



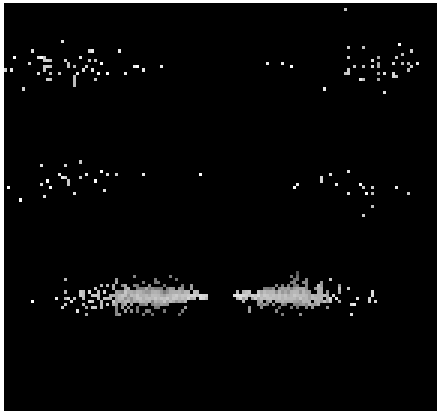
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	249	432	3330	10886	2597	229	179

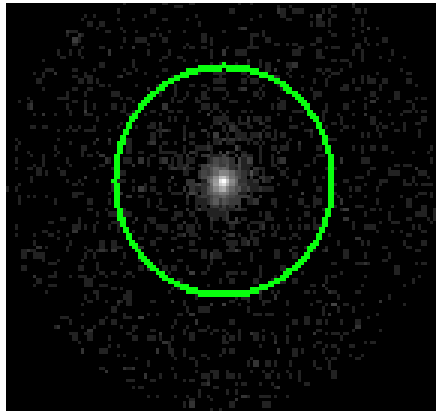




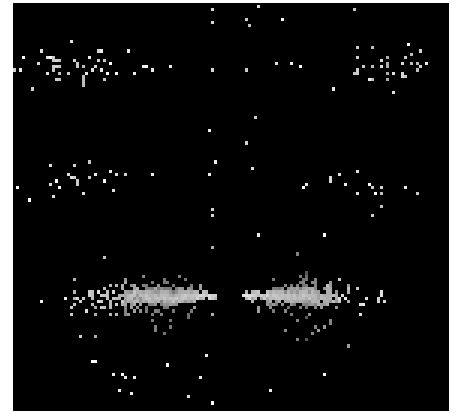
3.2 MEG Arm



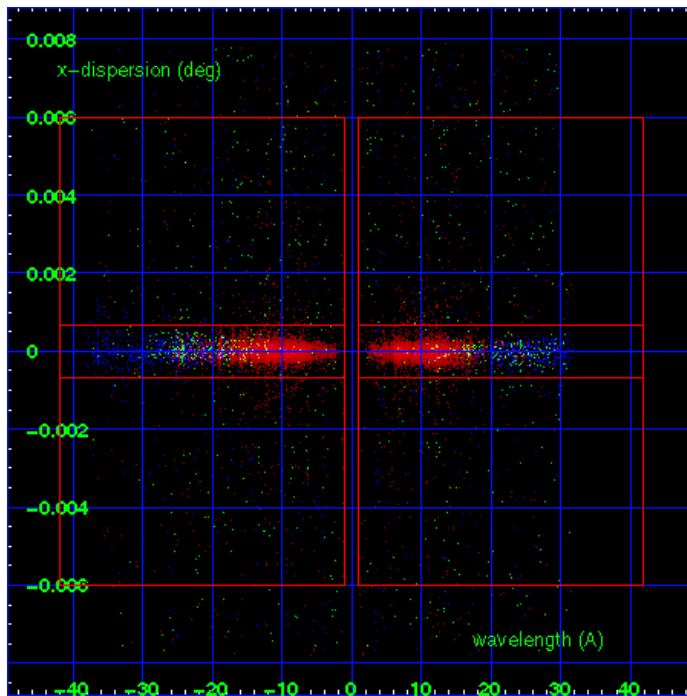
MEG Order Sort 123



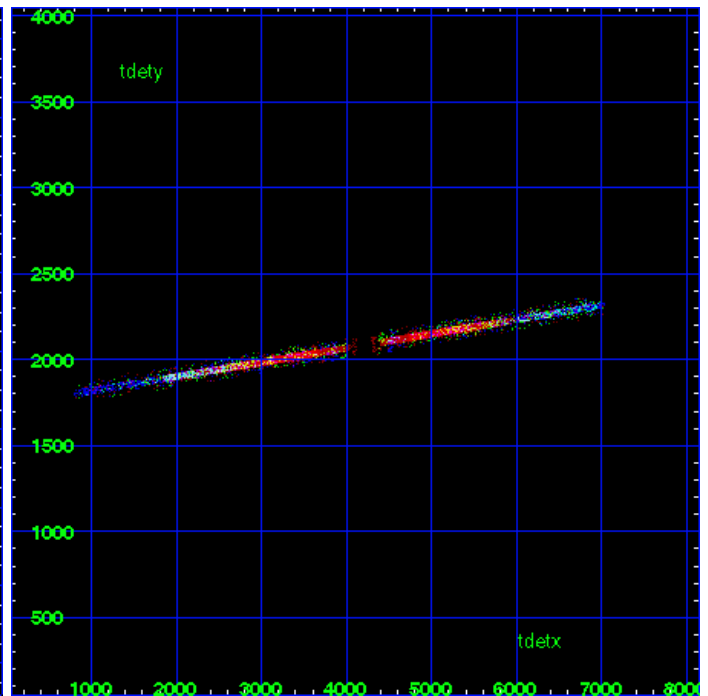
MEG Zero Order



MEG Order Sort ALL

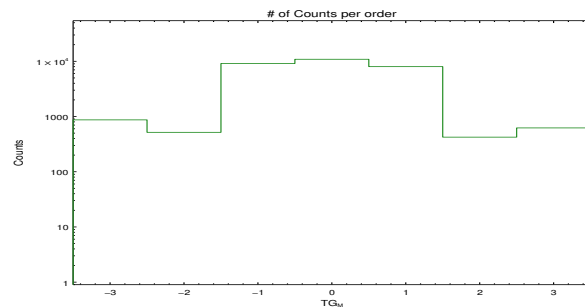


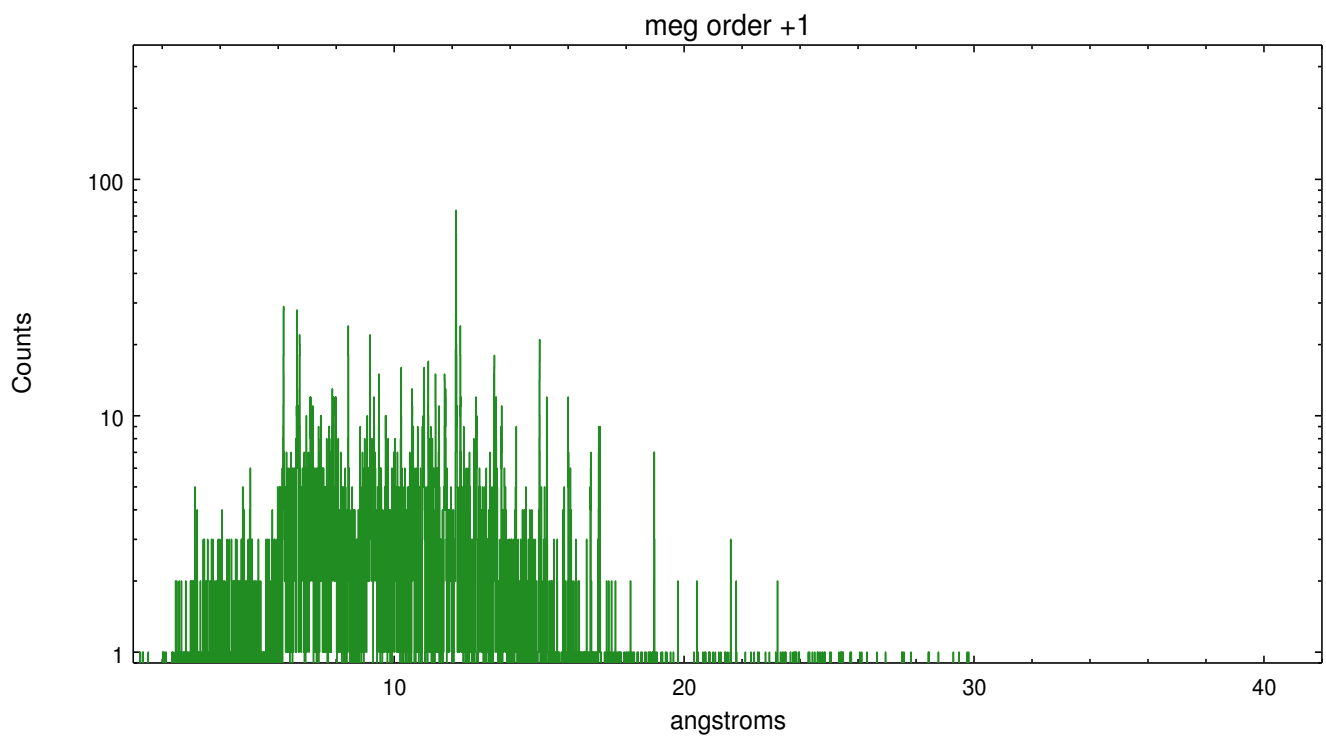
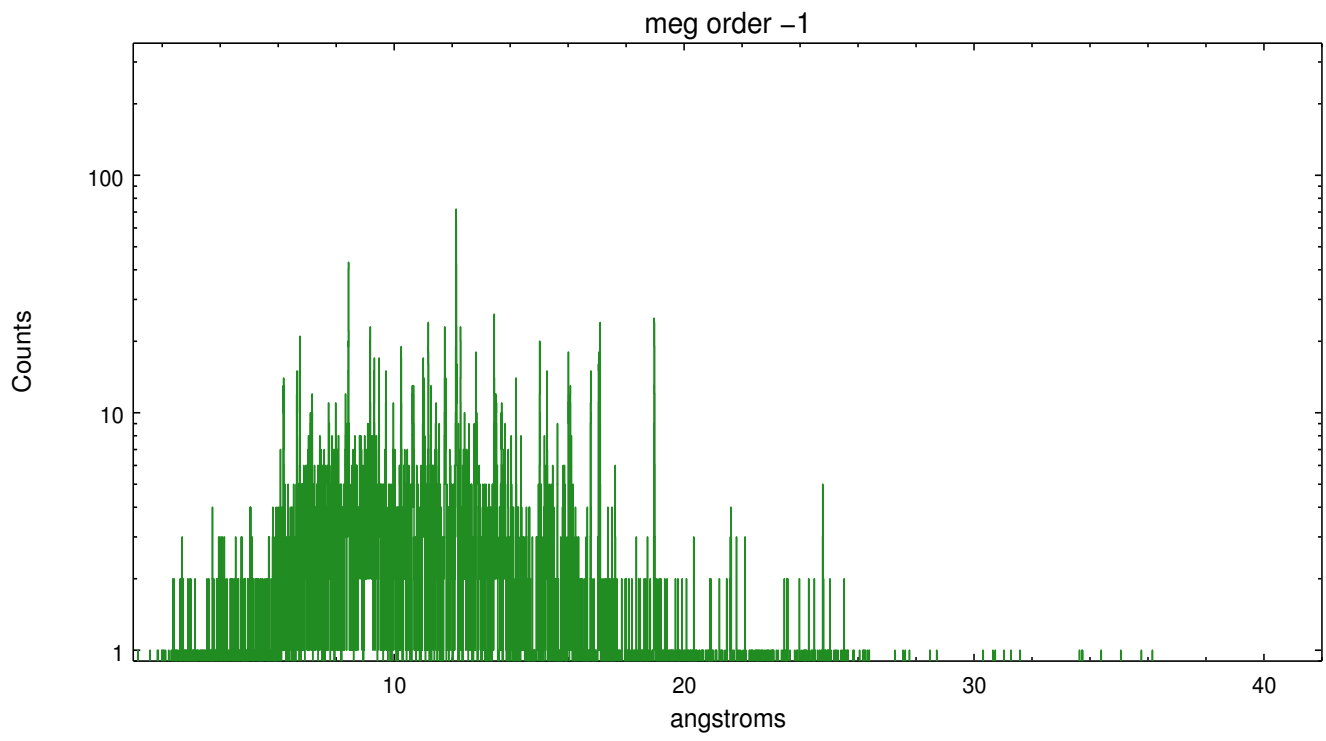
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	870	517	9123	10886	8012	423	622





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.756

A.2 Comments

phase constraints met.