

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7261 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Mar 23 2012

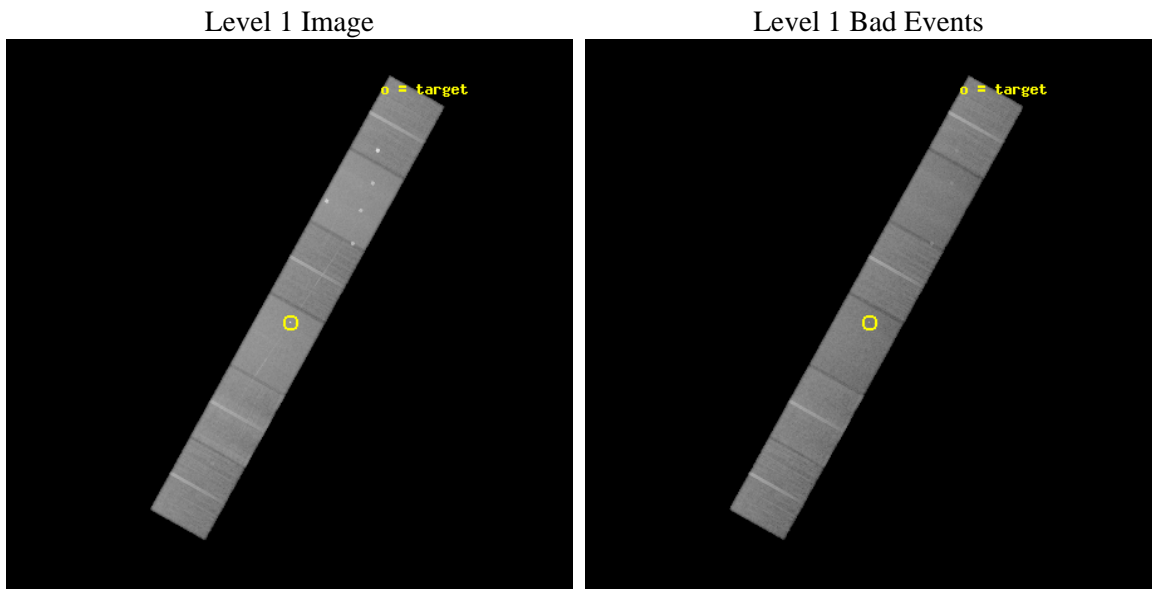
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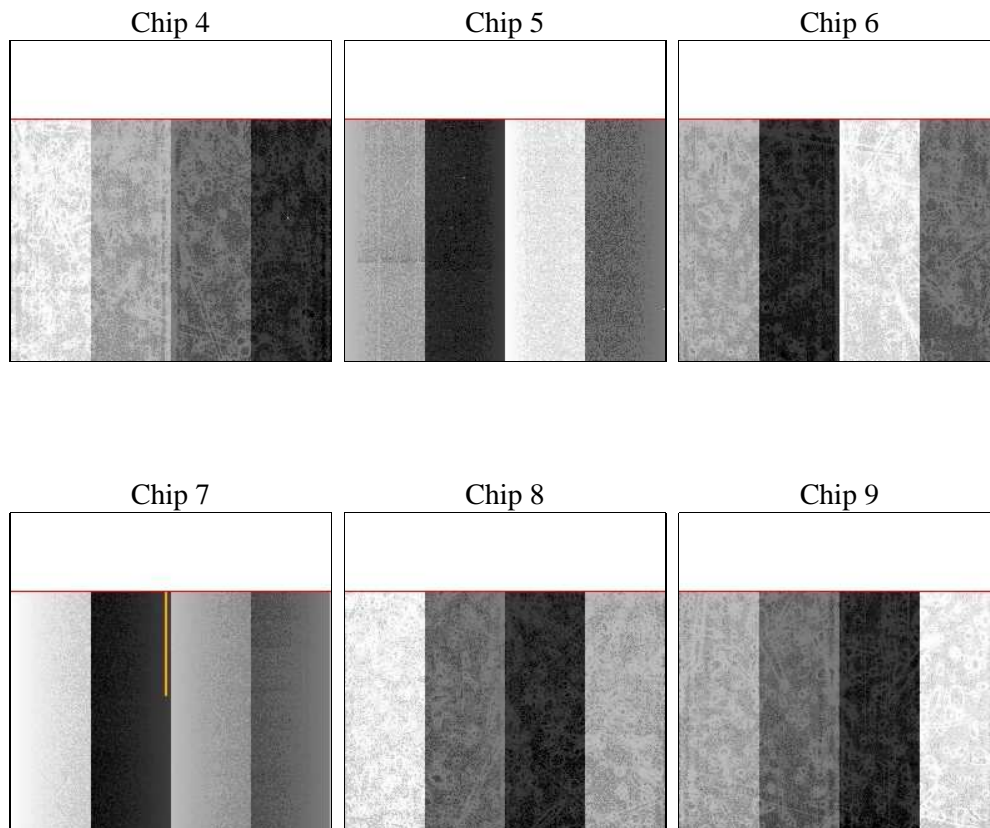
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	45142.374848485	Sum of GTIs [s]
caldbver	4.4.8	 	ontime4	45139.874888301	Sum of GTIs [s]
date	2012-03-23T15:53:22	Date and time of file creation	ontime5	45142.333808482	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	45142.292768478	Sum of GTIs [s]
			ontime7	45142.374848485	Sum of GTIs [s]
			ontime8	45142.251728475	Sum of GTIs [s]
			ontime9	45142.210688502	Sum of GTIs [s]
			l1events	2083732	Number of level 1 events

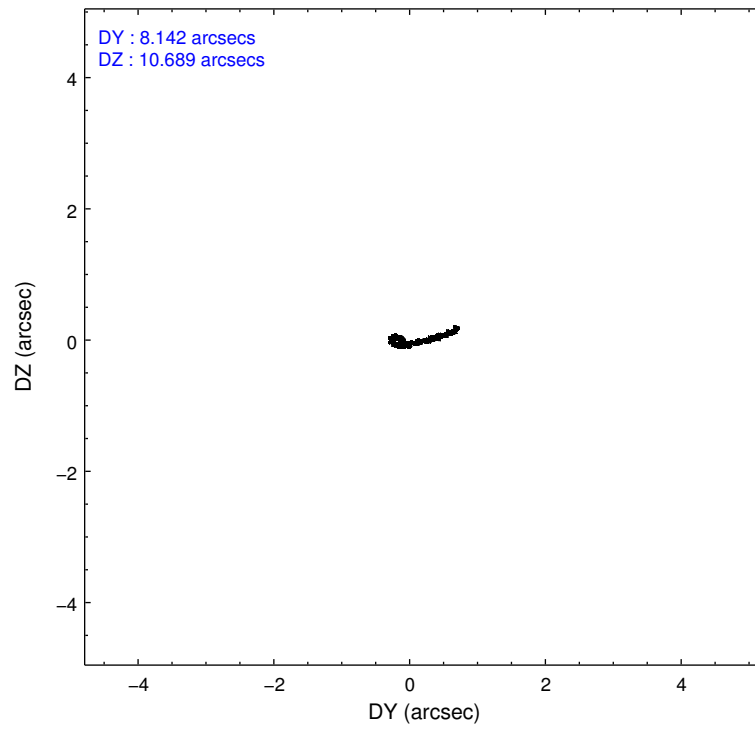
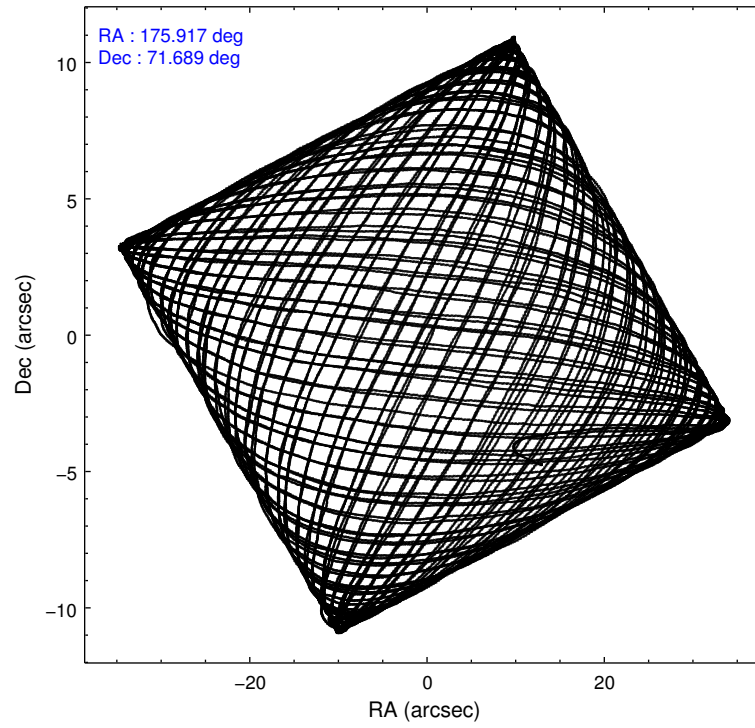
2.1.4 Events

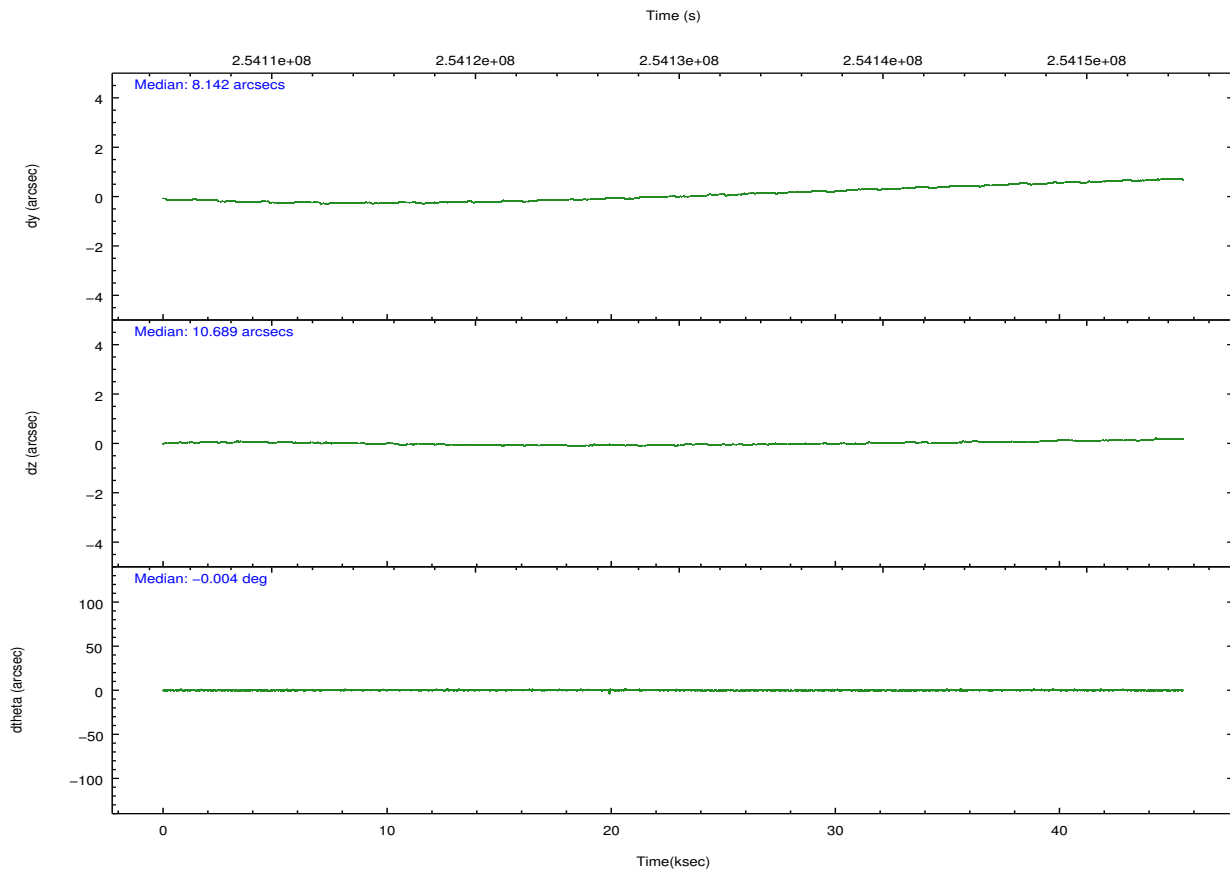
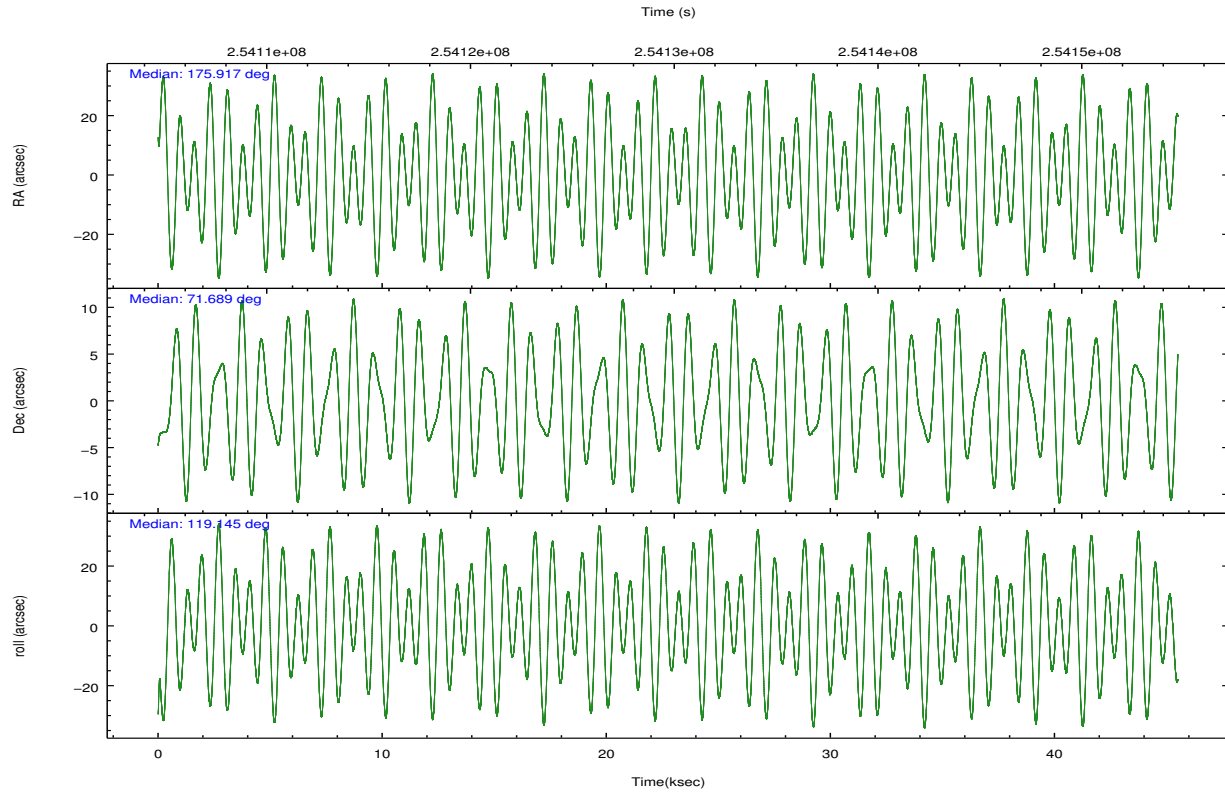
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	328208	434470	286396	391086	362349	281223	grade 0 events	29628	29031	15611	16089	25472	14385
rejected events	277725	228937	249341	222198	281547	246057		9%	6%	5%	4%	7%	5%
rejected %	84%	52%	87%	56%	77%	87%	grade 1 events	346	1068	137	443	228	143
								0%	0%	0%	0%	0%	0%
							grade 2 events	7735	56472	7601	34522	17545	6935
								2%	12%	2%	8%	4%	2%
							grade 3 events	3655	9103	3432	15413	8752	3632
								1%	2%	1%	3%	2%	1%
							grade 4 events	3752	8954	3492	15501	8109	3537
								1%	2%	1%	3%	2%	1%
							grade 5 events	12315	33151	13100	37080	16937	13768
								3%	7%	4%	9%	4%	4%
							grade 6 events	5719	101996	6922	87392	20951	6687
								1%	23%	2%	22%	5%	2%
							grade 7 events	265058	194695	236101	184646	264355	232136
								80%	44%	82%	47%	72%	82%

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	175.991464	175.916520050034	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	71.674866	71.6885145397987	Subarray start row	1	1
[deg] Pointing Roll	118.922276	119.1500404309073	Subarray row count	774	774
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	2.5
[mm] SIM translation stage pos	-187.132523	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	254107356.184000	254106339.41721			
Observation start date	2006-01-20T01:21:31	2006-01-20T01:05:39			
[s] Observation end time (MET)	254152456.184000	254152942.06937			
Observation end date	2006-01-20T13:53:11	2006-01-20T14:02:22			
Read mode	TIMED	TIMED			

2.3 Aspect



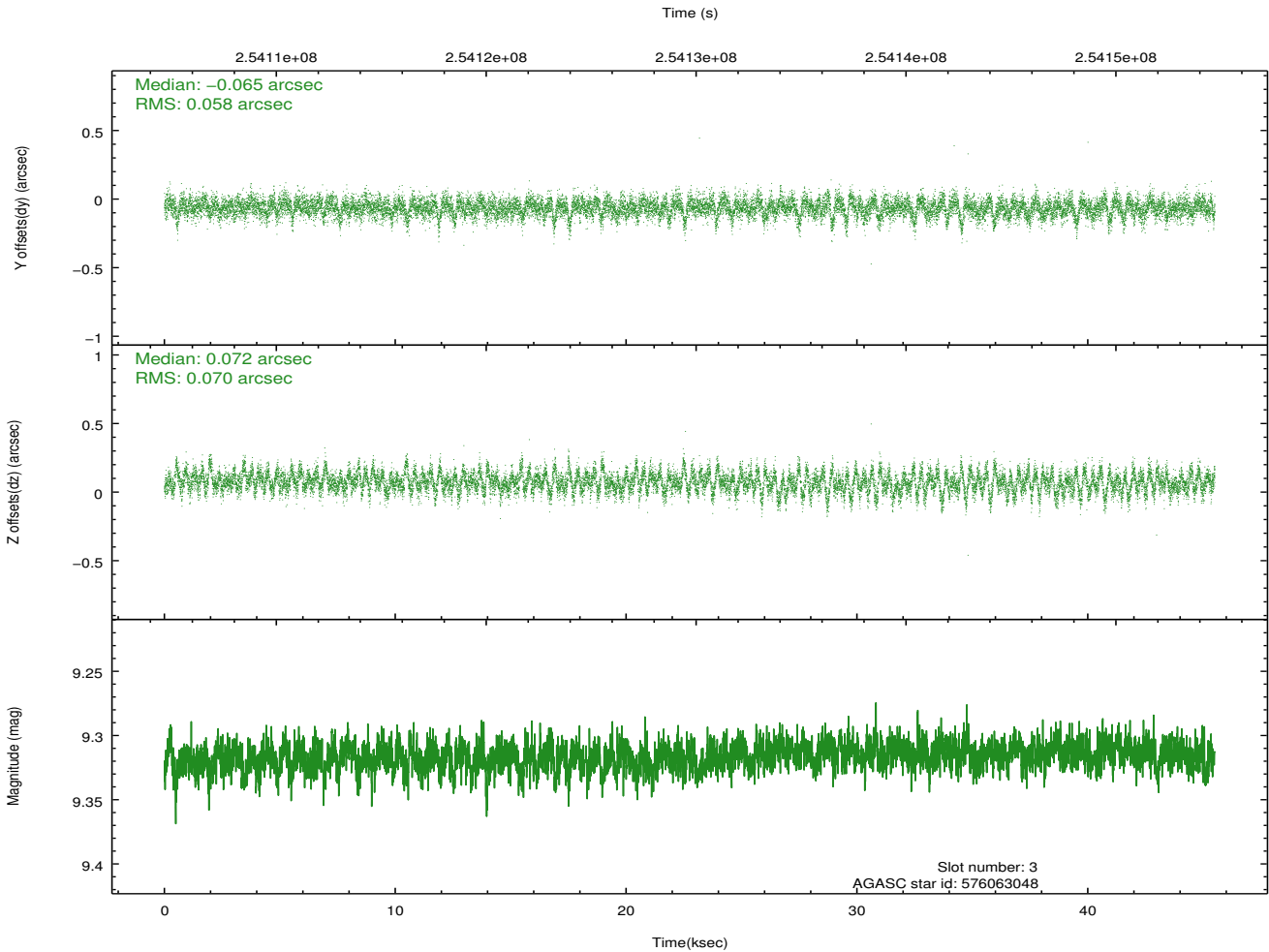
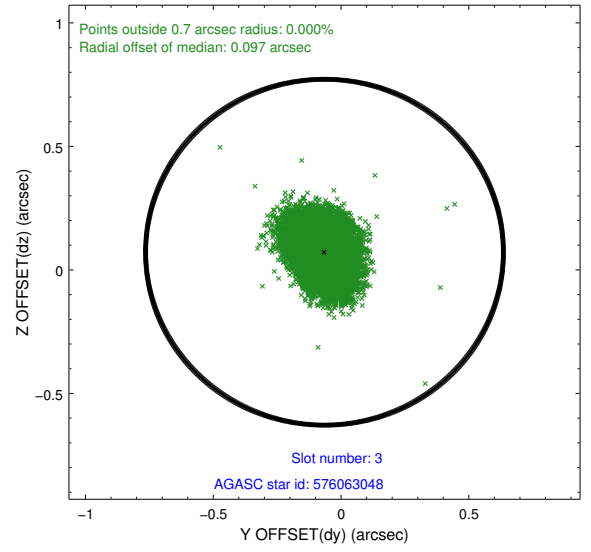
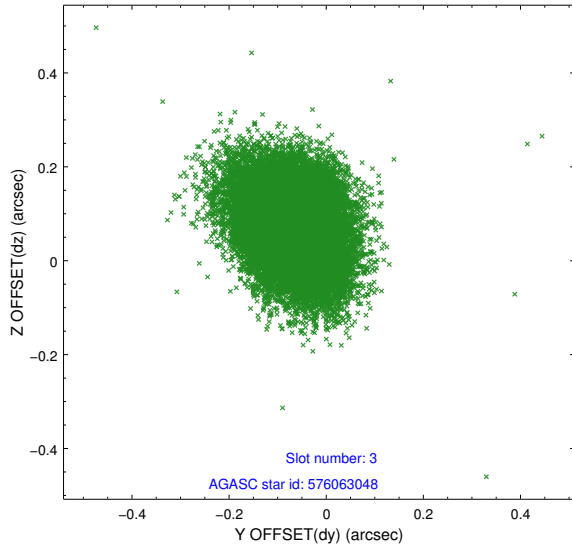


Slot Statistics

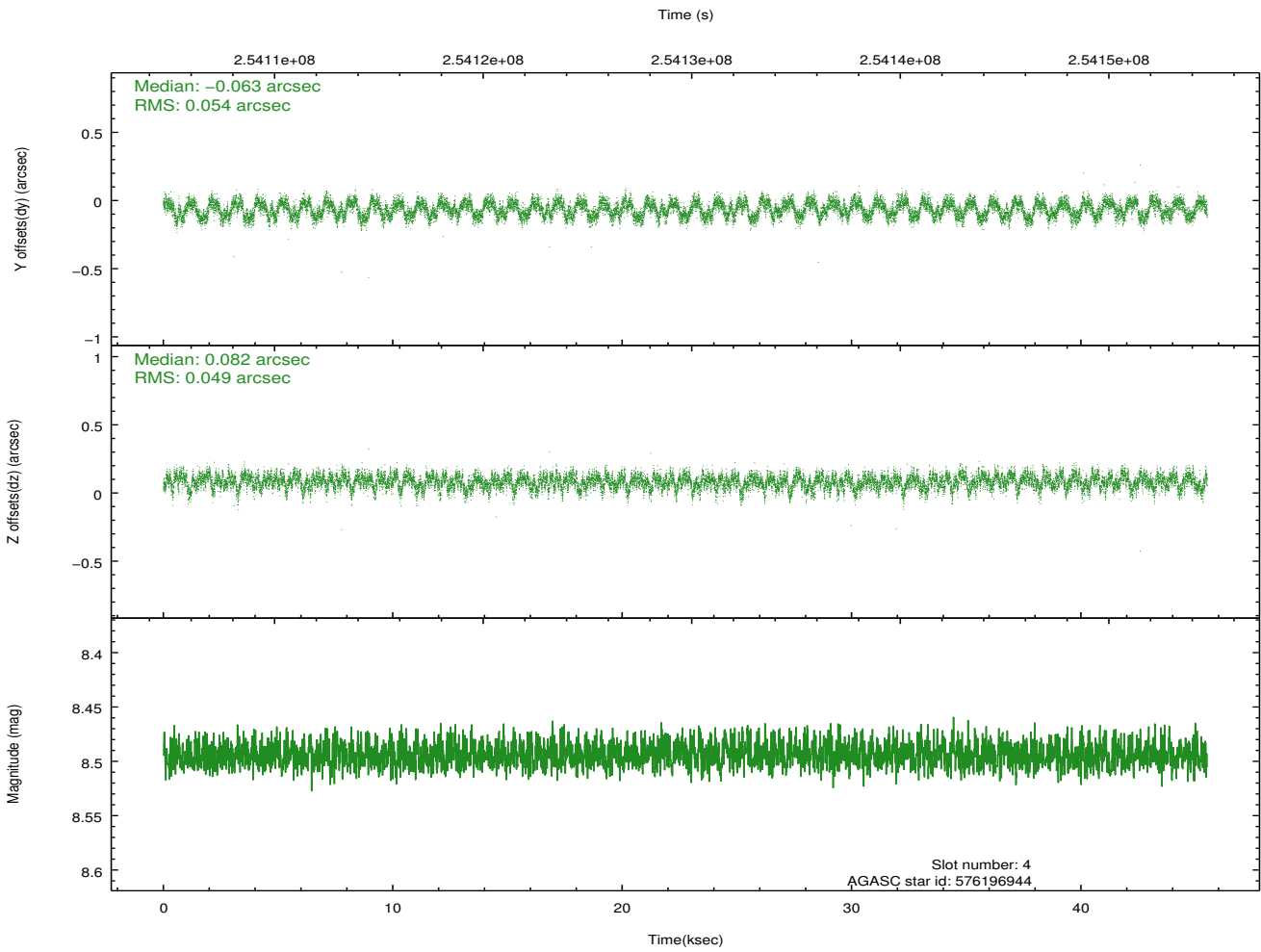
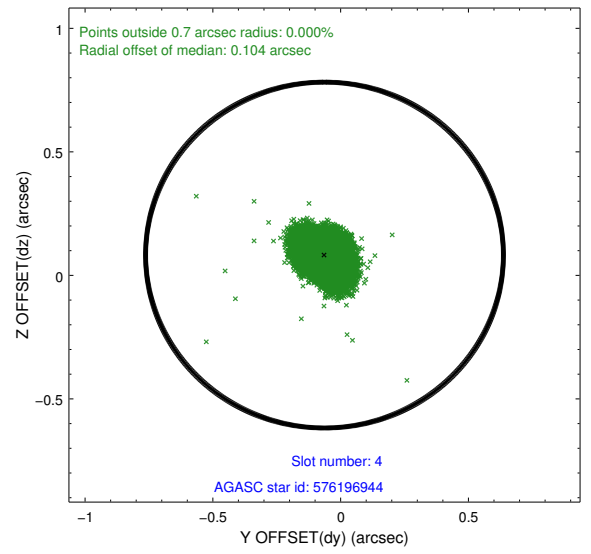
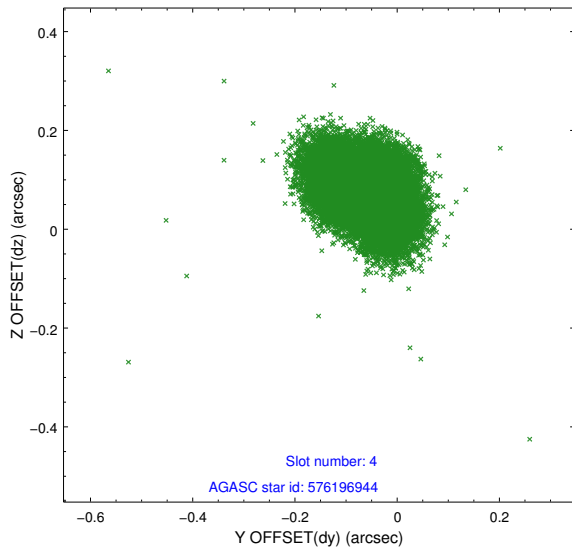
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	11099	0.062	0.023	0.010	0.021	0.000000	0.000000	935.25	-1789.72
1	FID	ACIS-S-4	7.20	11098	0.085	-0.041	0.012	0.019	0.000000	0.000000	2152.70	114.35
2	FID	ACIS-S-5	7.23	11099	-0.173	0.030	0.011	0.020	0.000000	0.000000	-1813.83	108.07
3	GUIDE	576063048	9.32	22177	-0.065	0.072	0.095	0.160	175.839657	72.109524	1451.25	-609.50
4	GUIDE	576196944	8.49	22189	-0.063	0.082	0.078	0.122	176.483968	72.095688	1065.01	-1210.75
5	GUIDE	576197680	8.99	22190	-0.048	0.097	0.127	0.198	177.799182	71.774257	-643.80	-1968.64
6	GUIDE	576064704	9.53	22187	-0.069	0.023	0.159	0.246	173.877683	72.064026	2395.42	1353.70
7	GUIDE	576070904	10.31	22163	0.241	-0.245	0.204	0.413	175.036924	70.880403	-1950.87	2364.07

2.4 Star Slots

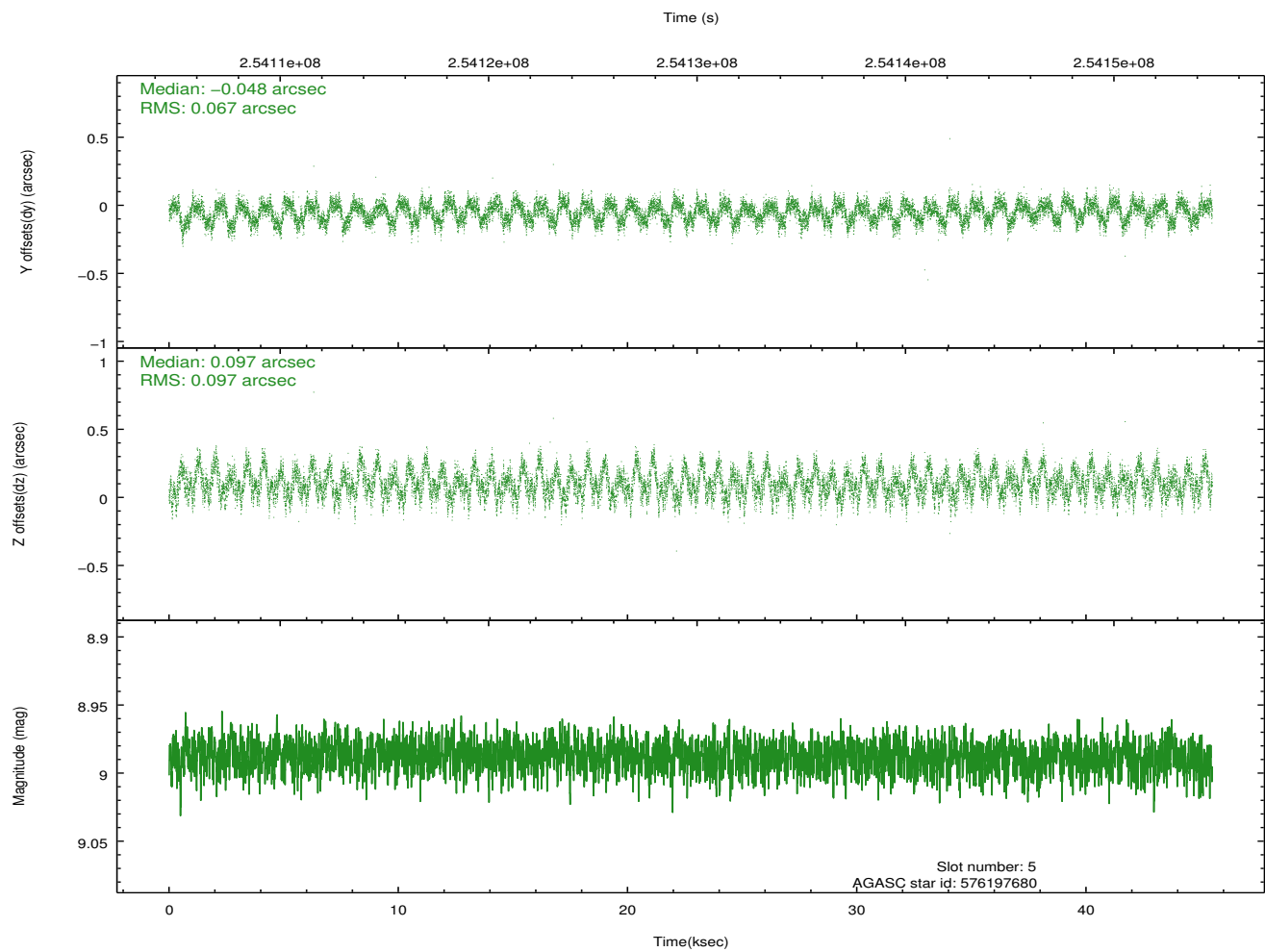
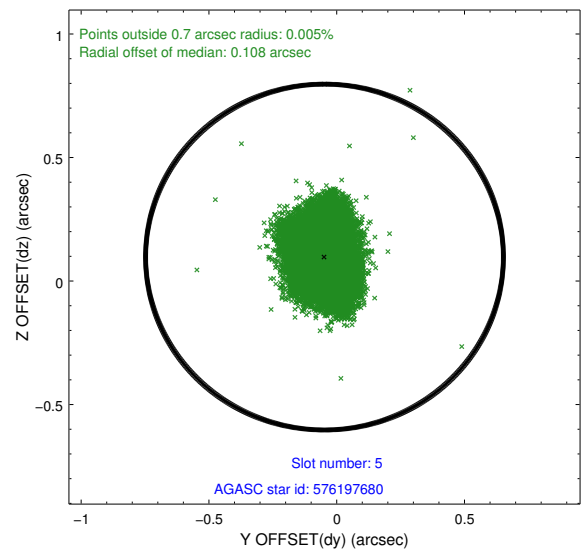
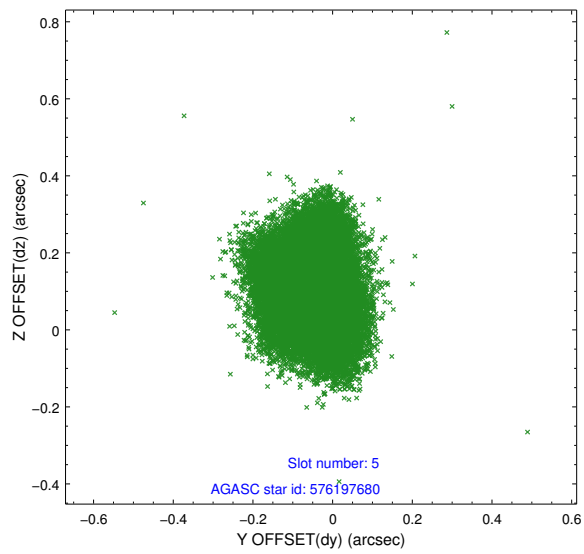
2.4.1 Slot 3



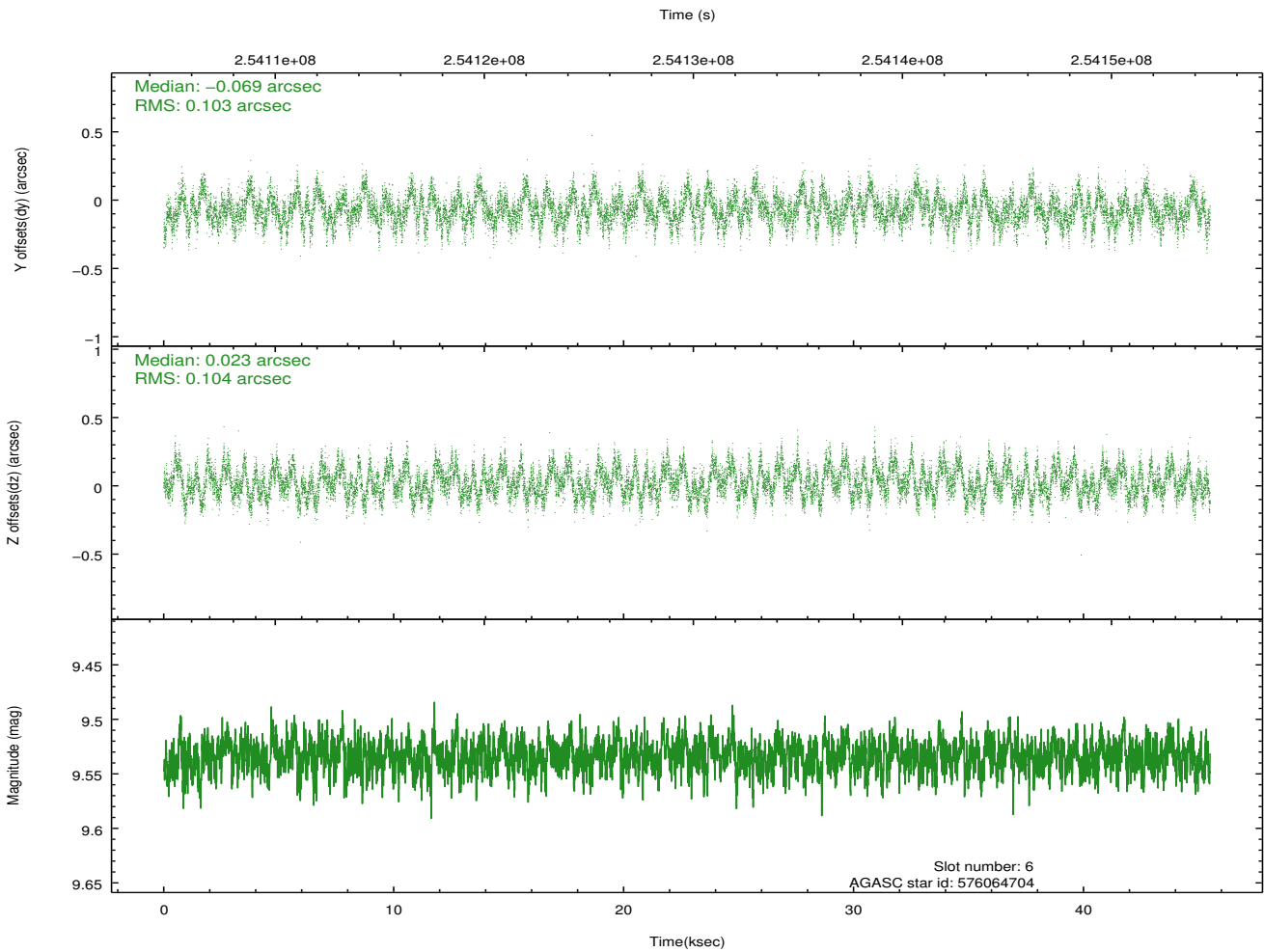
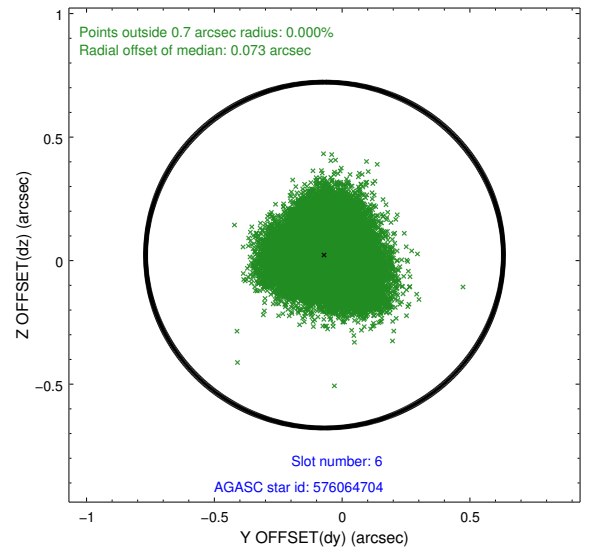
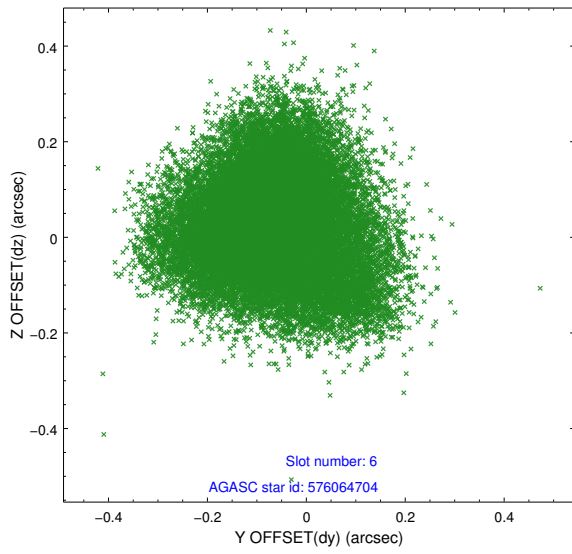
2.4.2 Slot 4



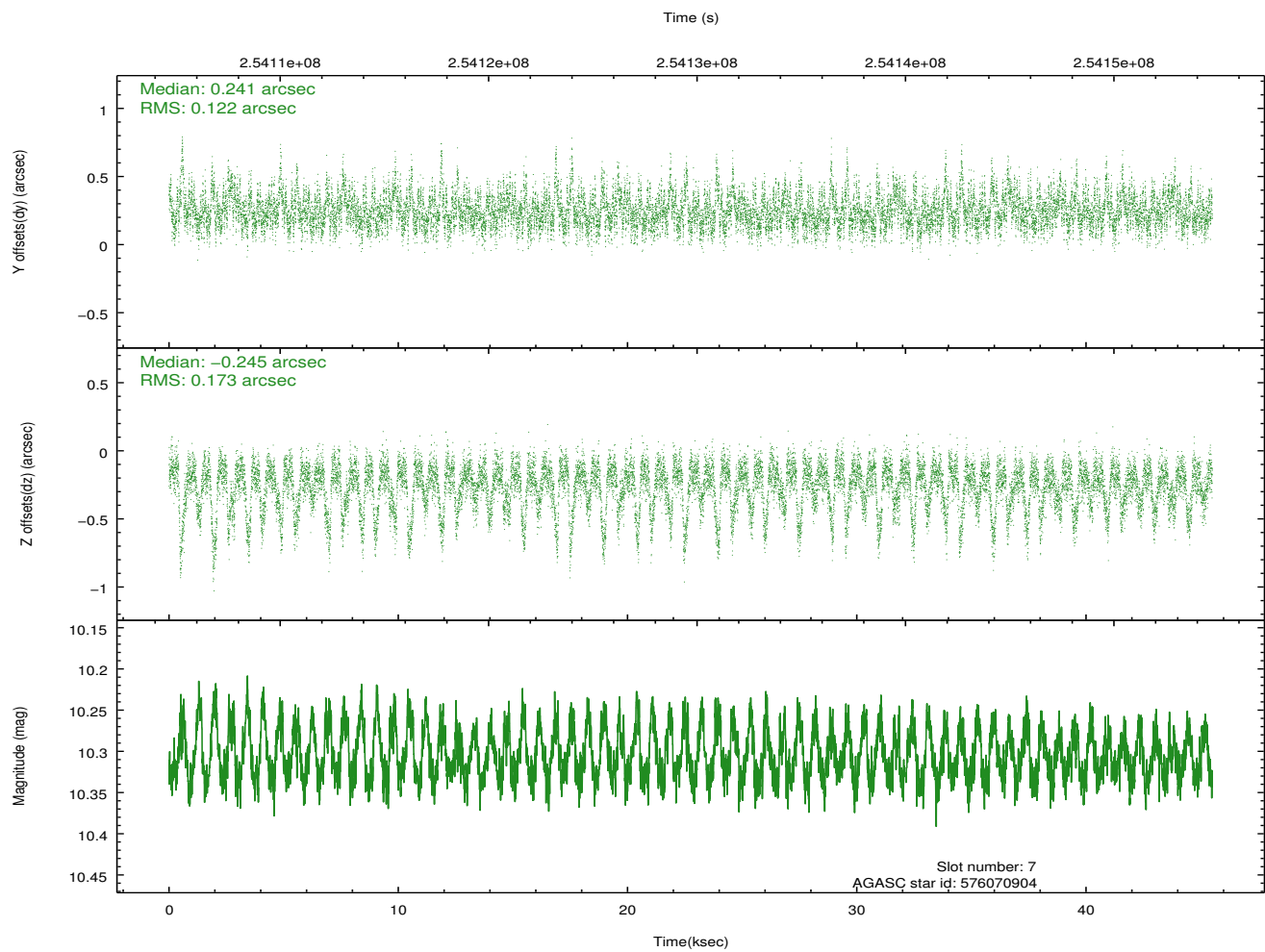
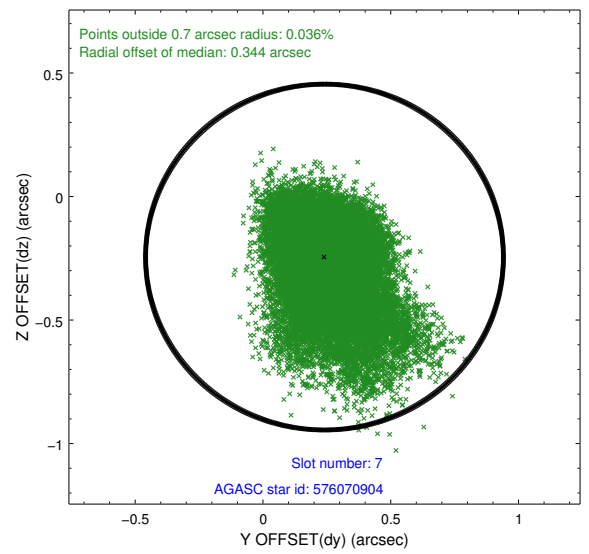
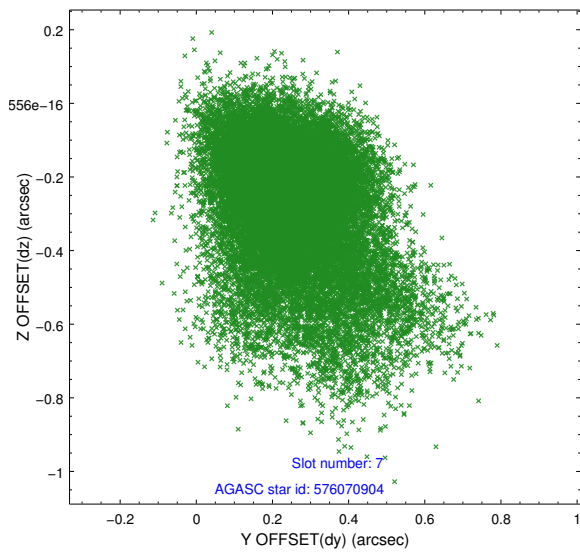
2.4.3 Slot 5



2.4.4 Slot 6

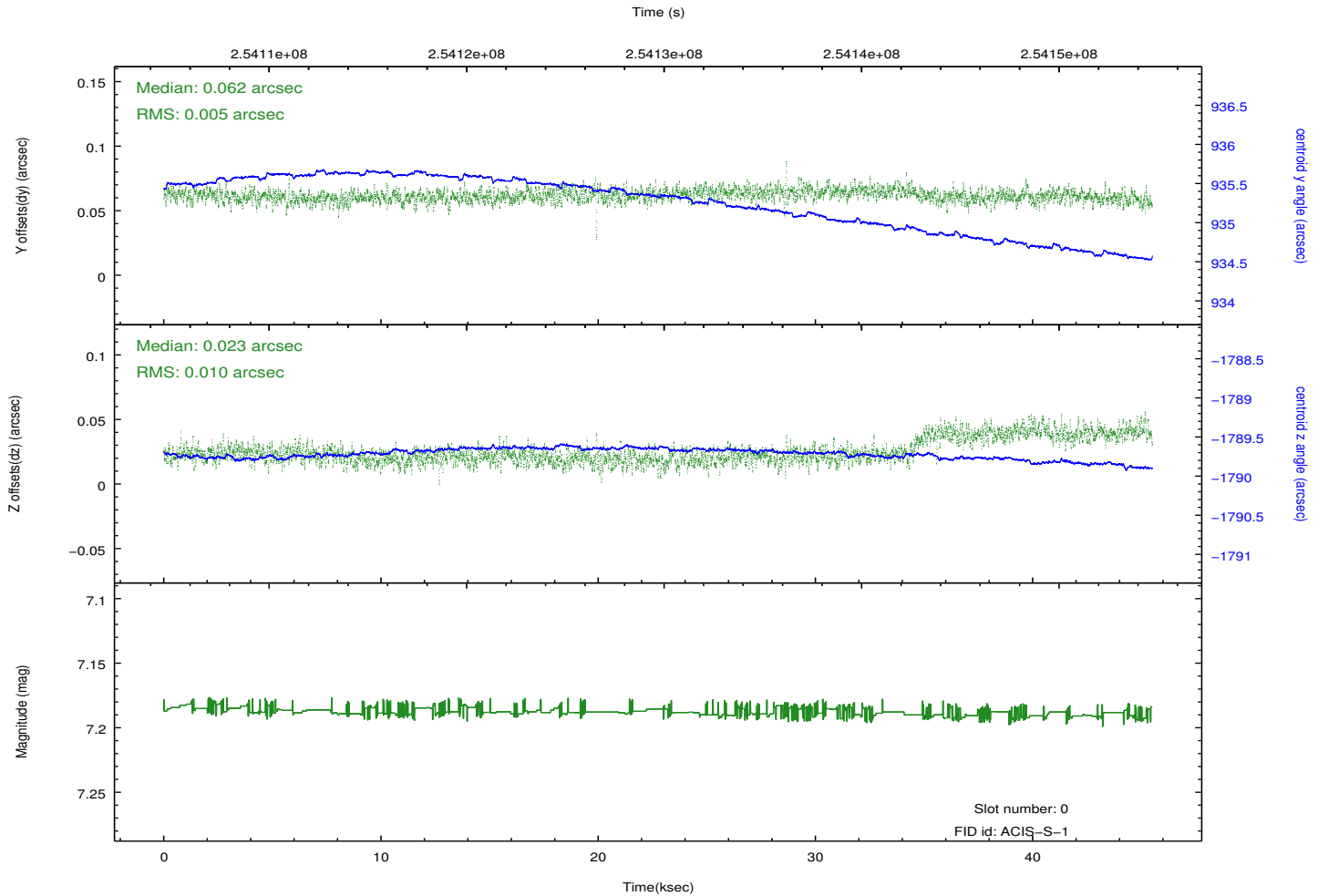
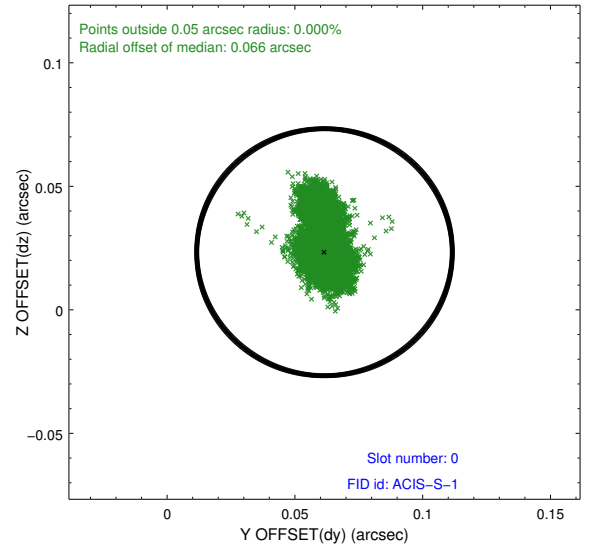
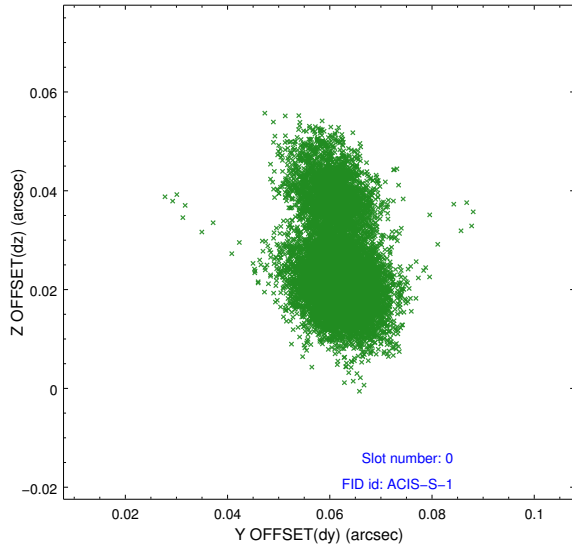


2.4.5 Slot 7

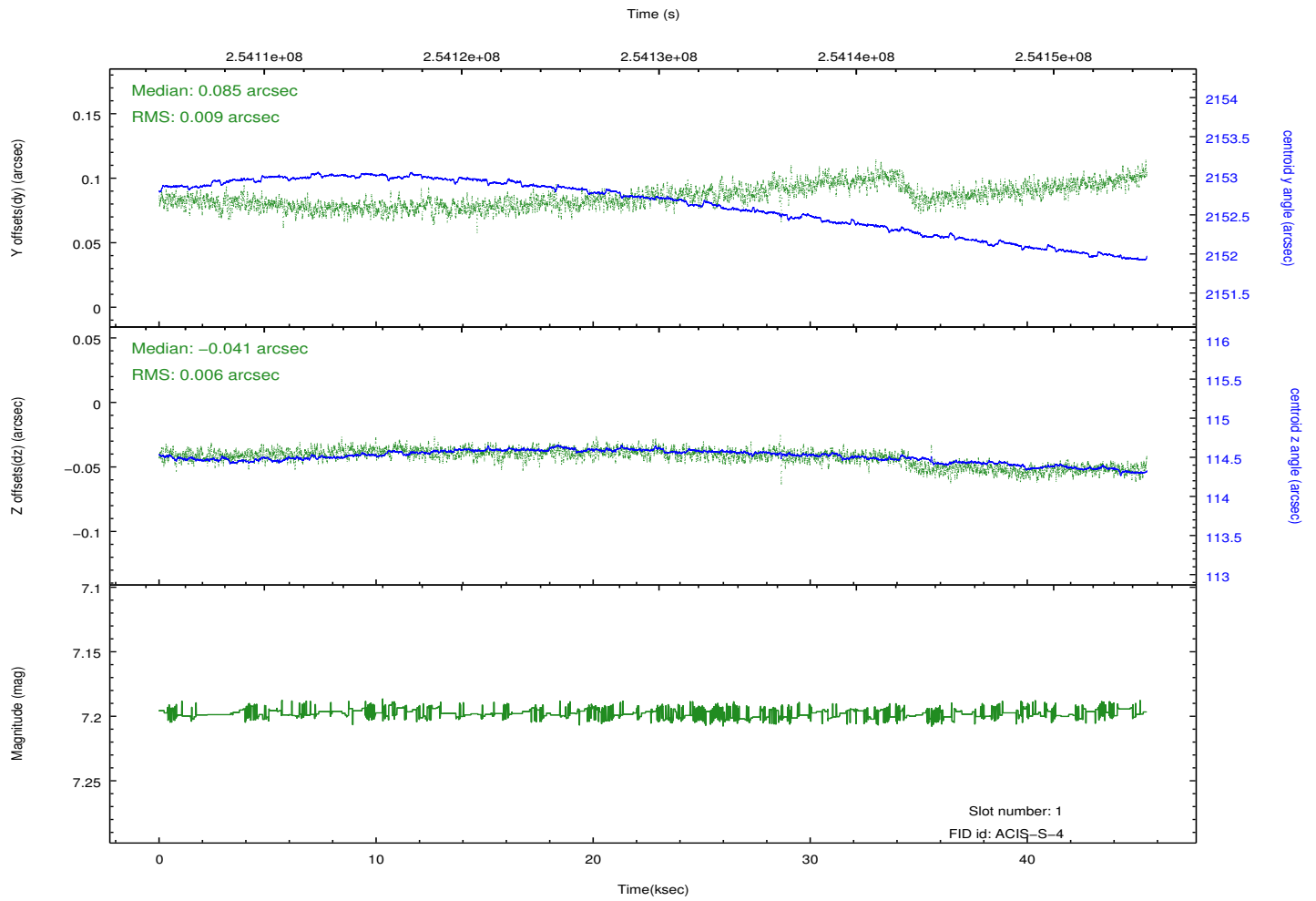
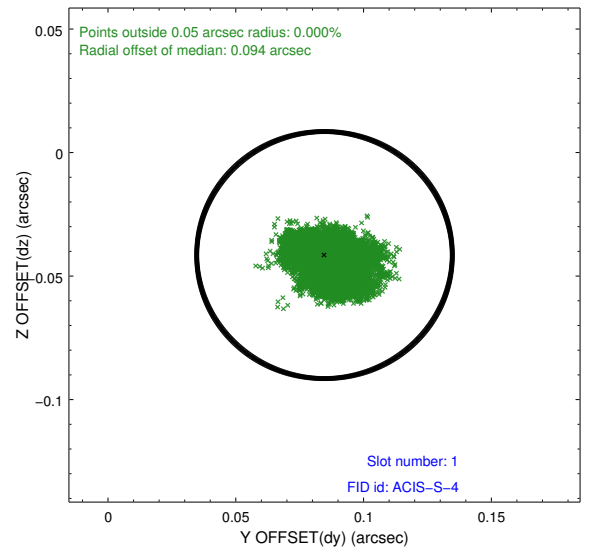
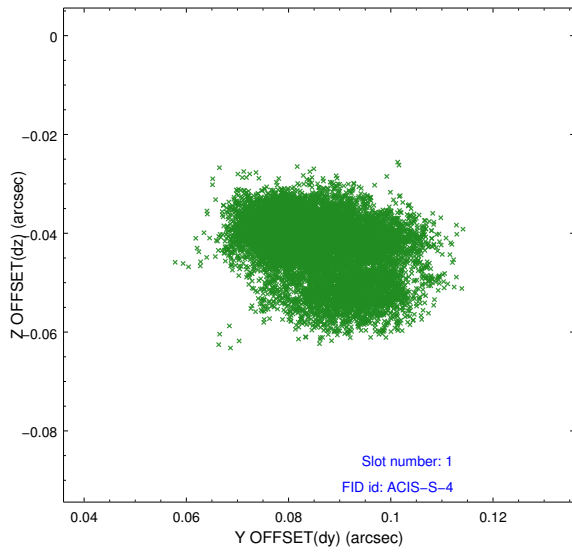


2.5 FID Slots

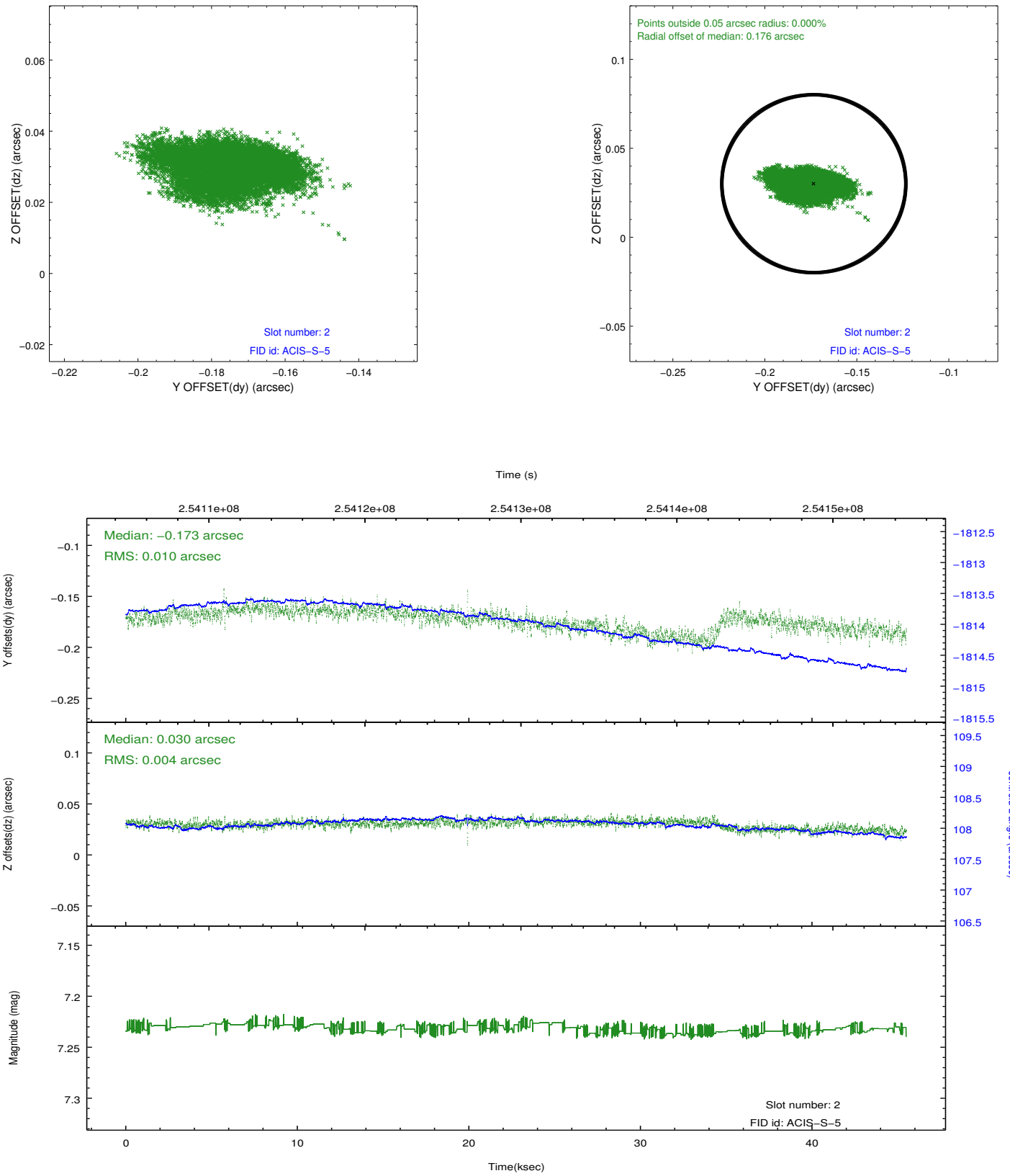
2.5.1 Slot 0



2.5.2 Slot 1

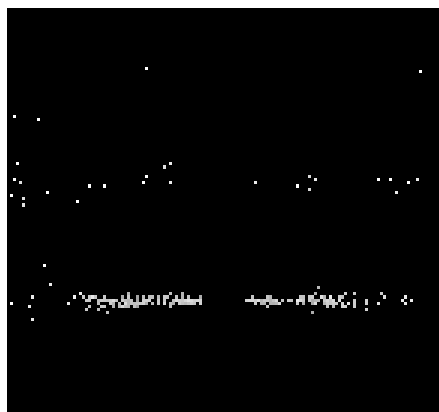


2.5.3 Slot 2

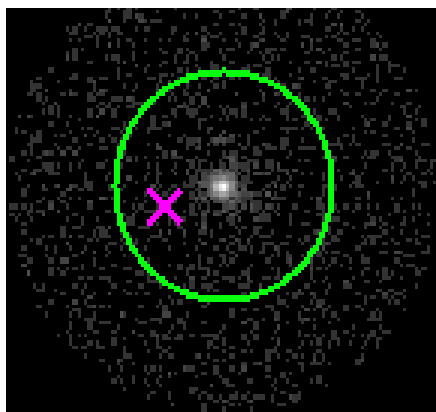


3 Gratings

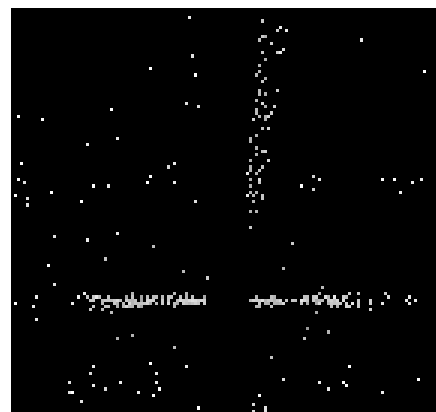
3.1 HEG Arm



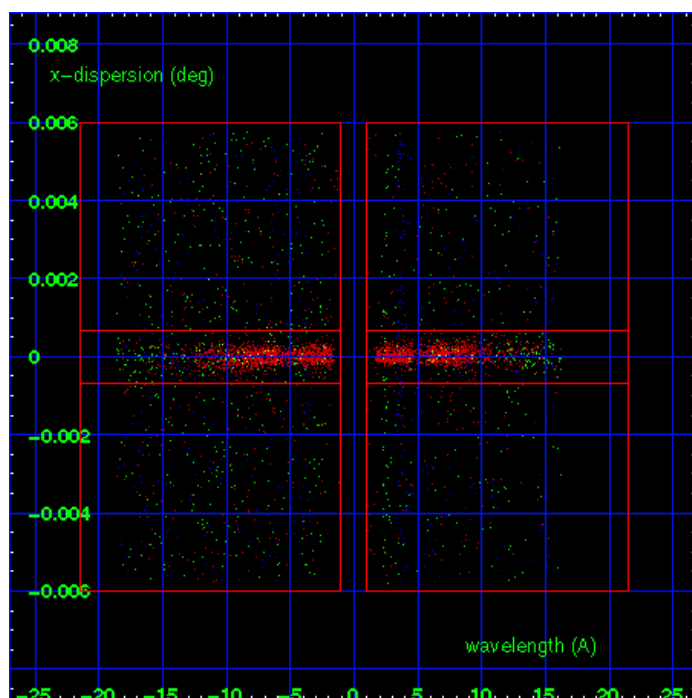
HEG Order Sort 123



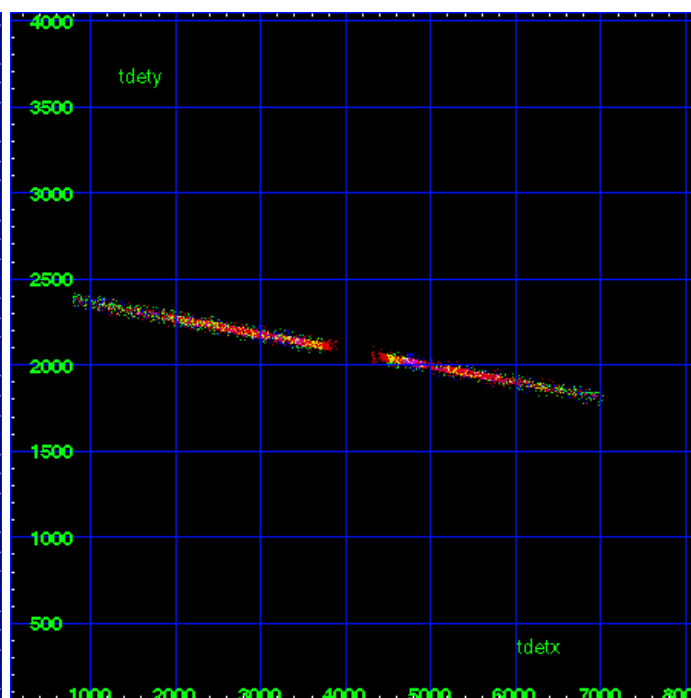
HEG Zero Order



HEG Order Sort ALL

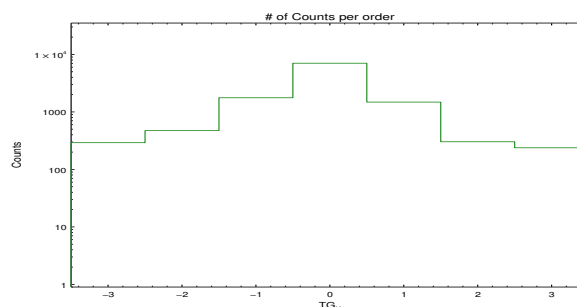


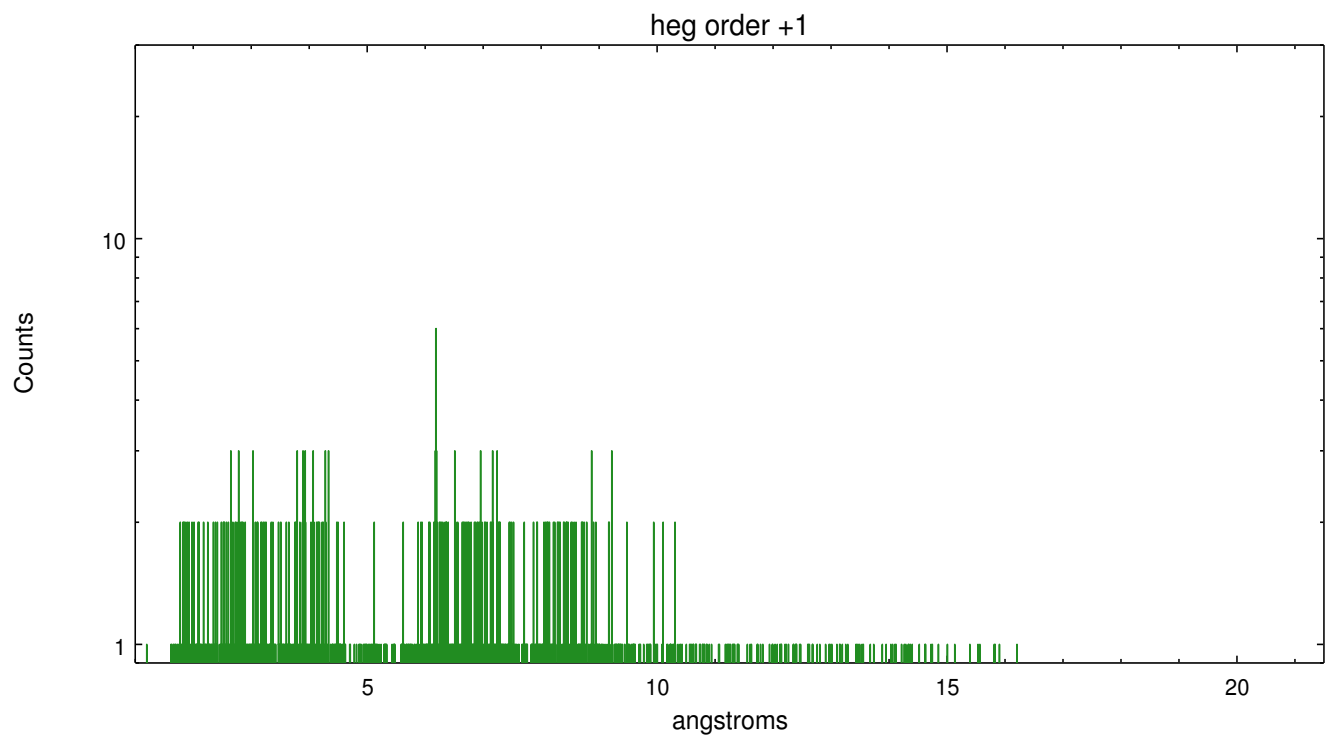
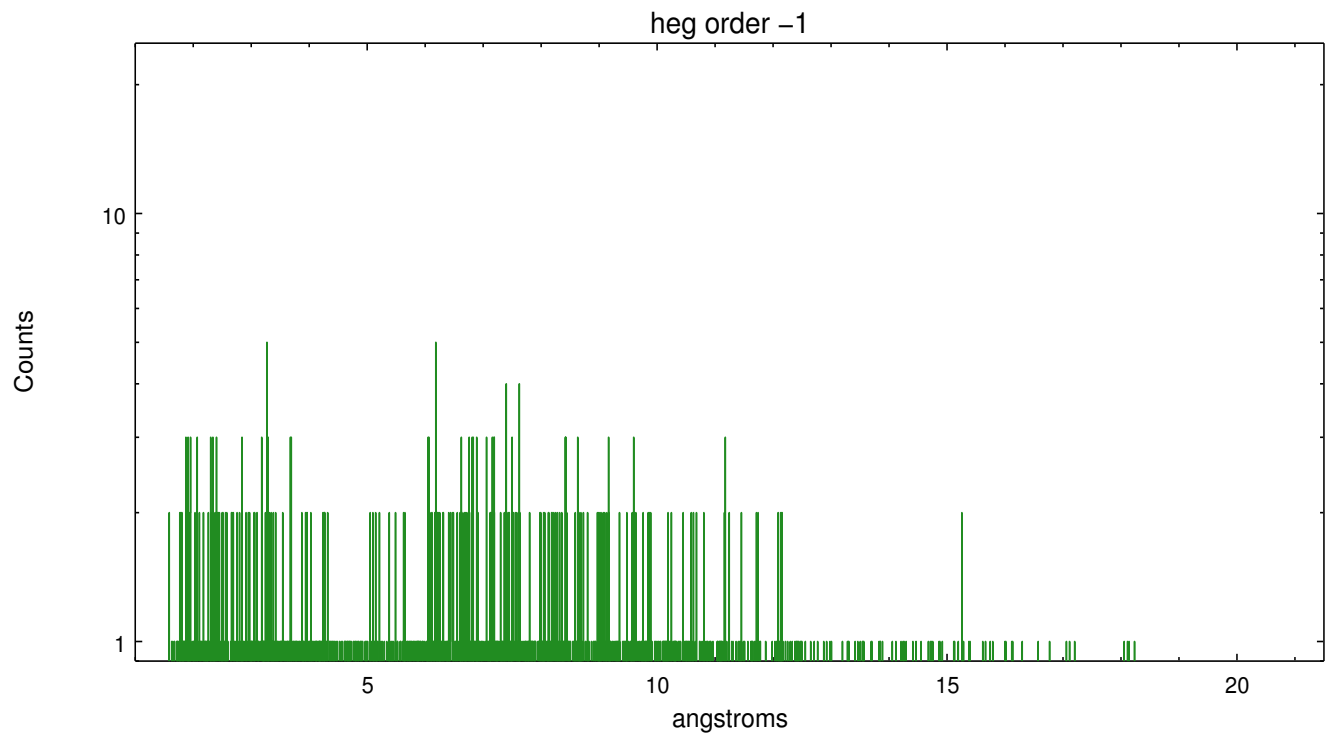
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	292	473	1764	7029	1483	303	238

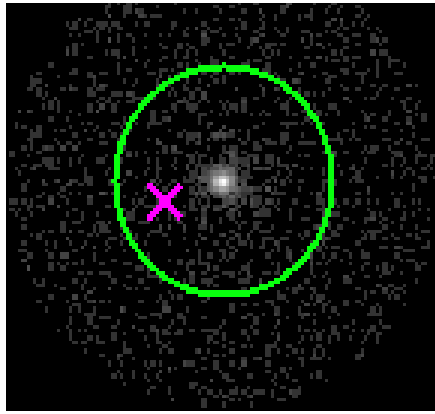




3.2 MEG Arm



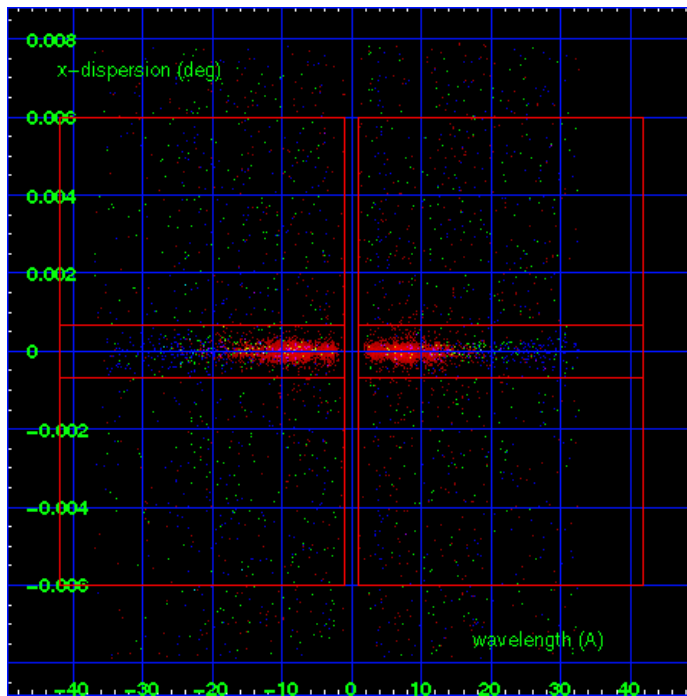
MEG Order Sort 123



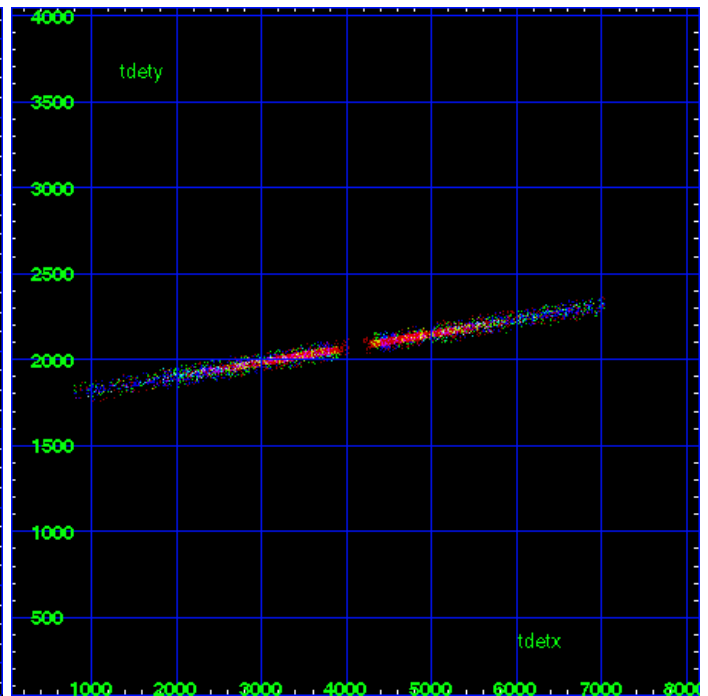
MEG Zero Order



MEG Order Sort ALL

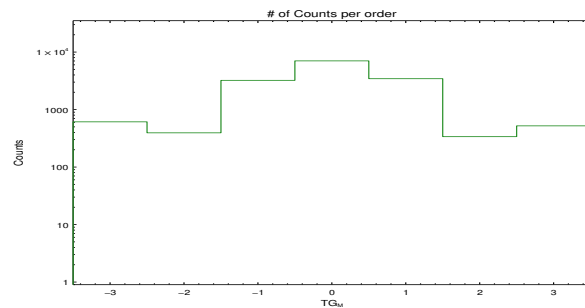


Spot Image MEG

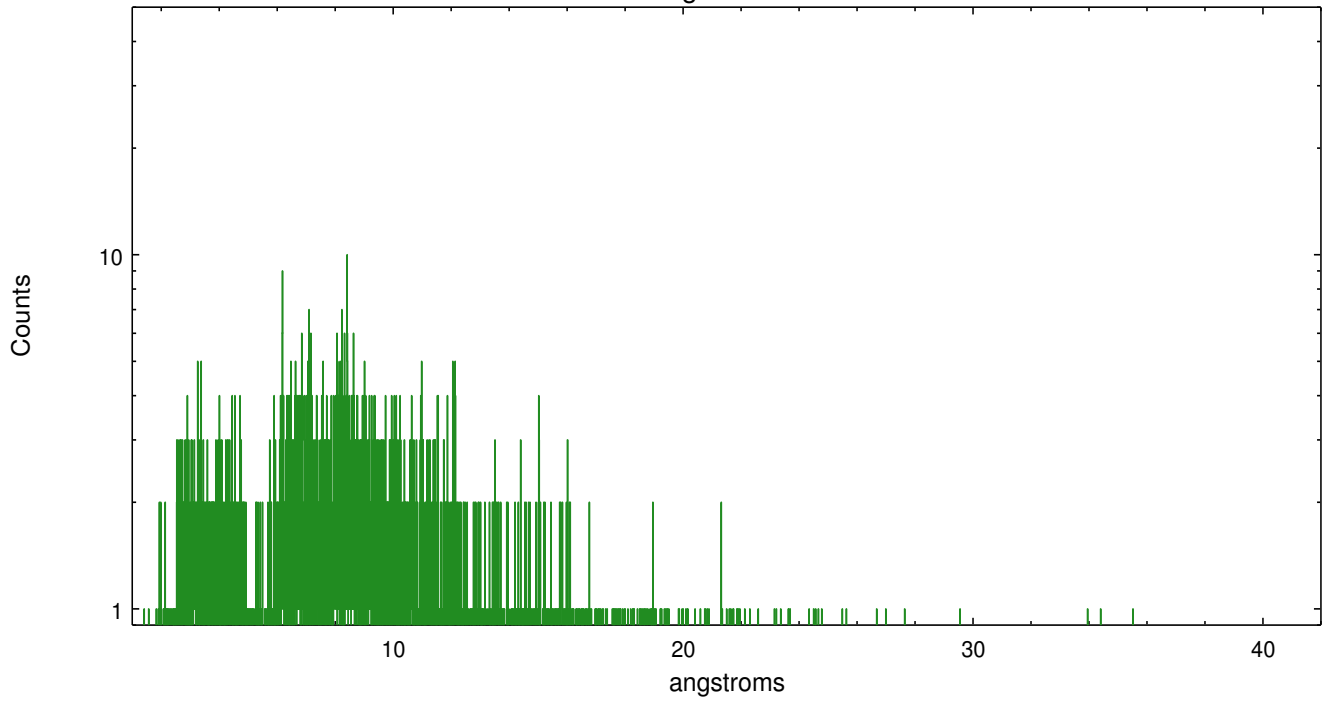


Full Detector MEG

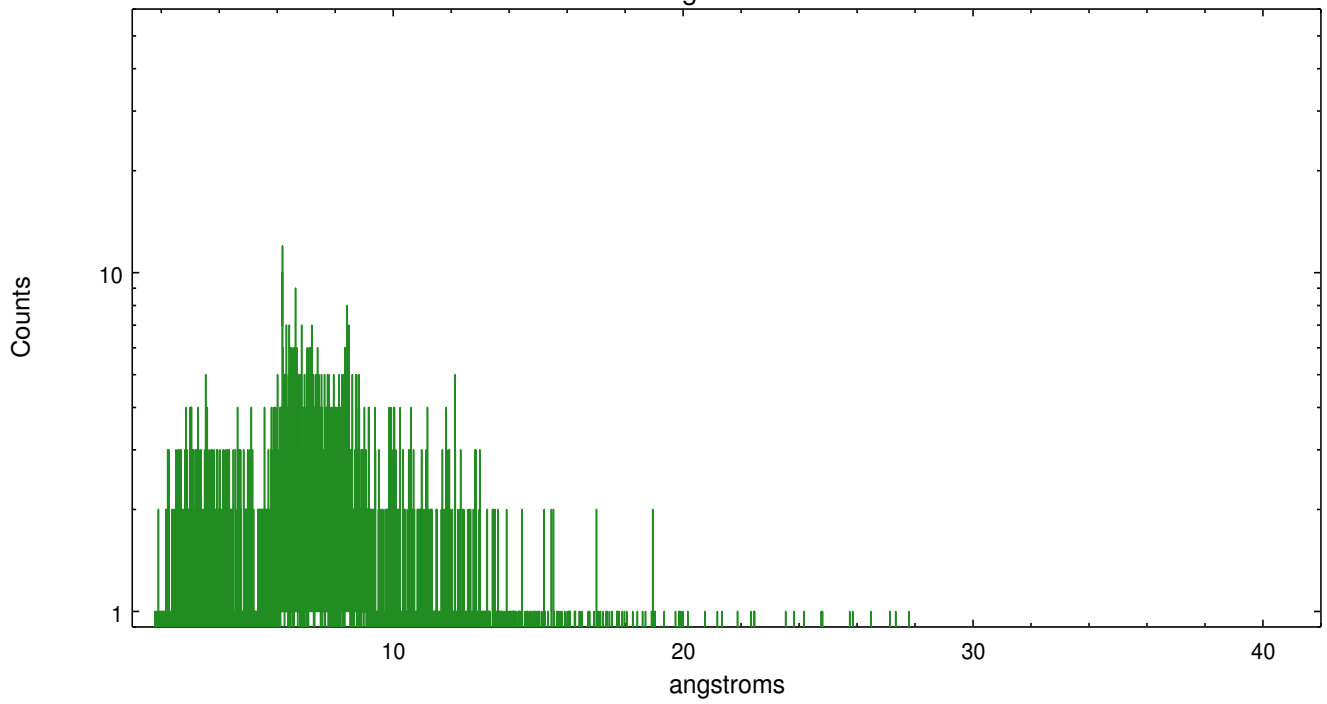
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	612	394	3222	7029	3444	338	521



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.1425

A.2 Comments