

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7282 - L2 Version 2
Chandra X-Ray Center

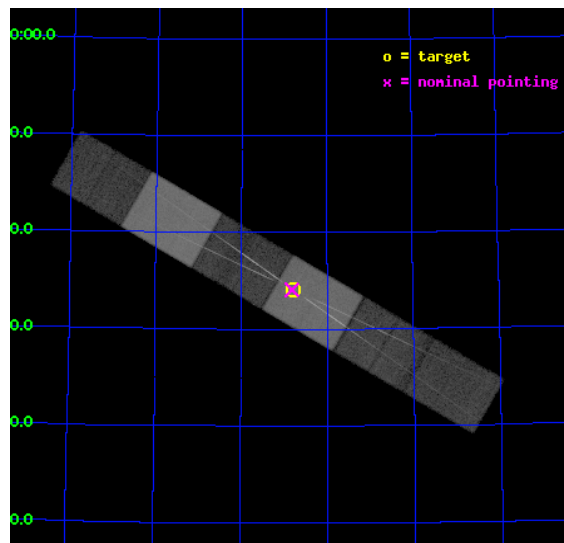
L2 Processing Date : Apr 11 2012

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1 Front

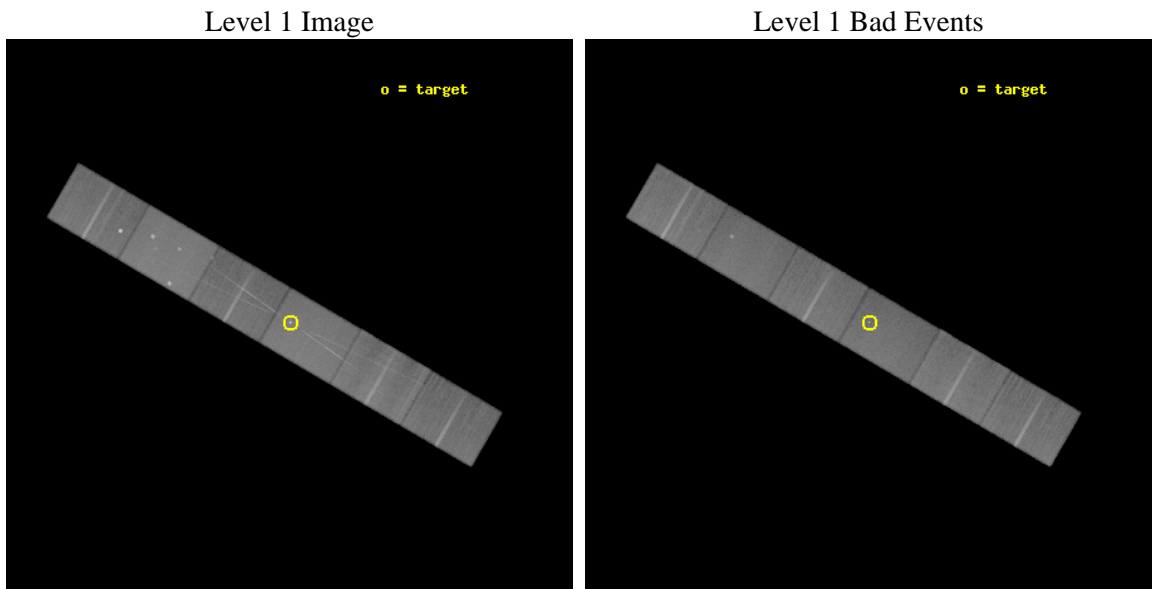
seq_num	701337	Sequence number
obs_id	7282	Observation id
title	NGC 3516: Disk Diagnostics from a Windy BLSy1 in a High-State	Prop
observer	Dr Tracey Turner	Principal investigator
object	NGC 3516	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.698333	Observer's specified target RA [deg]
dec_targ	72.568972	Observer's specified target Dec [deg]
ra_nom	166.70475047003	Nominal RA [deg]
dec_nom	72.568149209738	Nominal Dec [deg]
roll_nom	30.150504860066	Nominal Roll [deg]
revision	2	Processing version of data
ontime	42090.0	Sum of GTIs [s]
livetime	41410.209992759	Livetime [s]
ontime4	42090.0	Sum of GTIs [s]
ontime5	42090.0	Sum of GTIs [s]
ontime6	42090.0	Sum of GTIs [s]
ontime7	42090.0	Sum of GTIs [s]
ontime8	42090.0	Sum of GTIs [s]
ontime9	42090.0	Sum of GTIs [s]
l2events	529671	Number of level 2 events



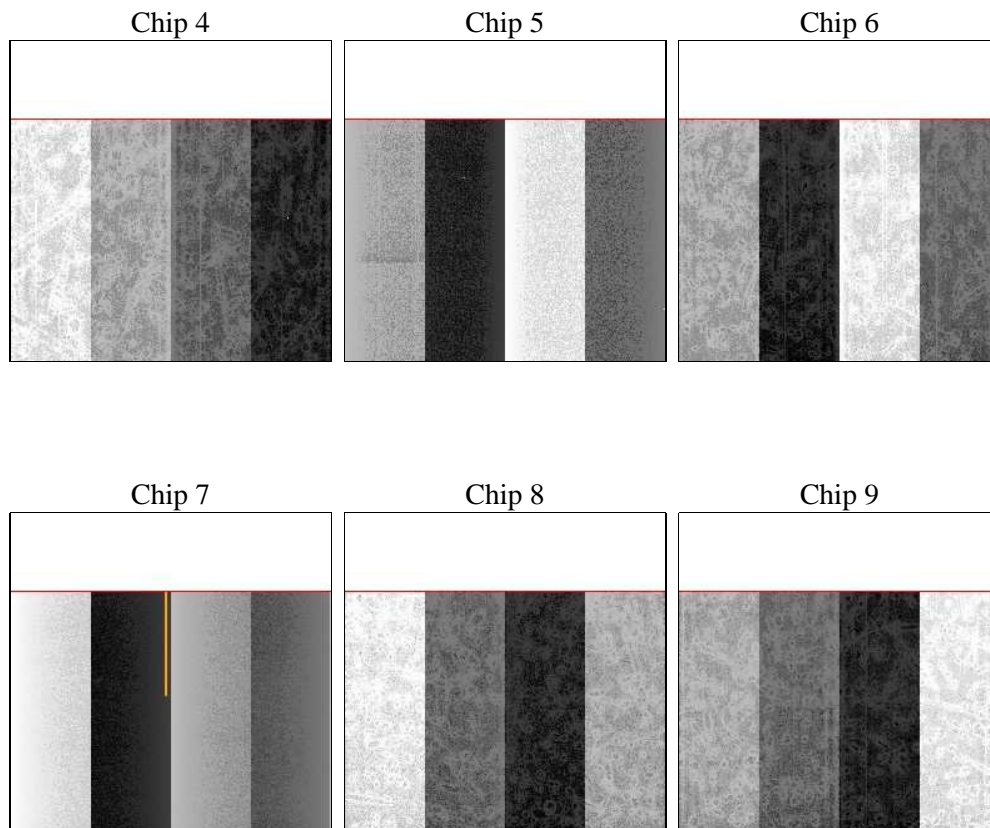
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41948.130000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	42090.0	Sum of GTIs [s]
caldbver	4.4.9	 	ontime4	42090.0	Sum of GTIs [s]
date	2012-04-11T15:56:14	Date and time of file creation	ontime5	42090.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	42090.0	Sum of GTIs [s]
			ontime7	42090.0	Sum of GTIs [s]
			ontime8	42090.0	Sum of GTIs [s]
			ontime9	42090.0	Sum of GTIs [s]
			l1events	2214503	Number of level 1 events

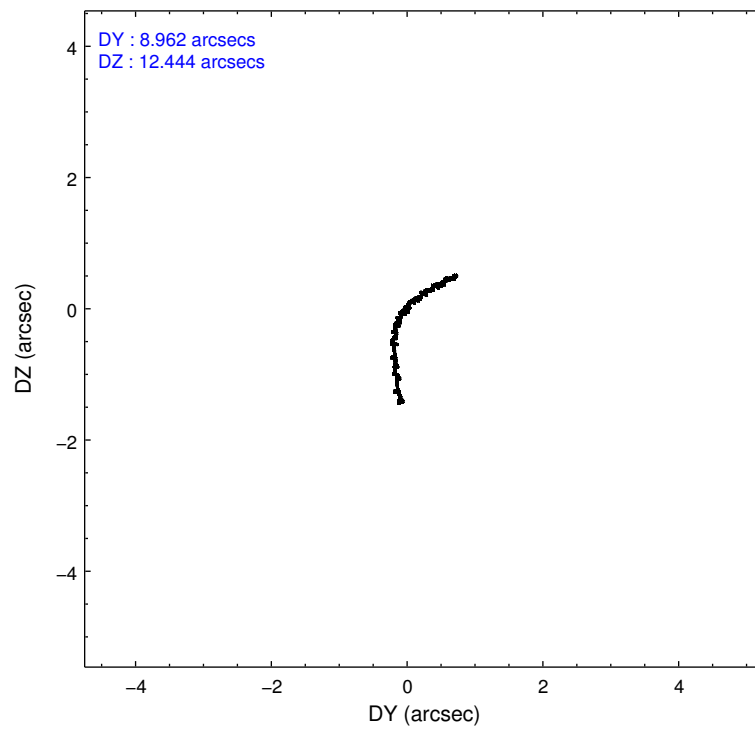
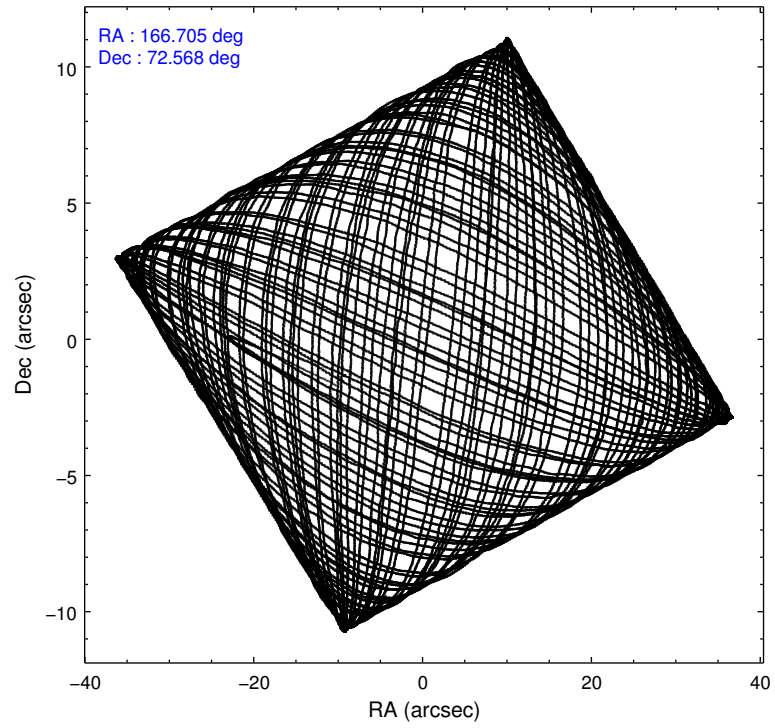
2.1.4 Events

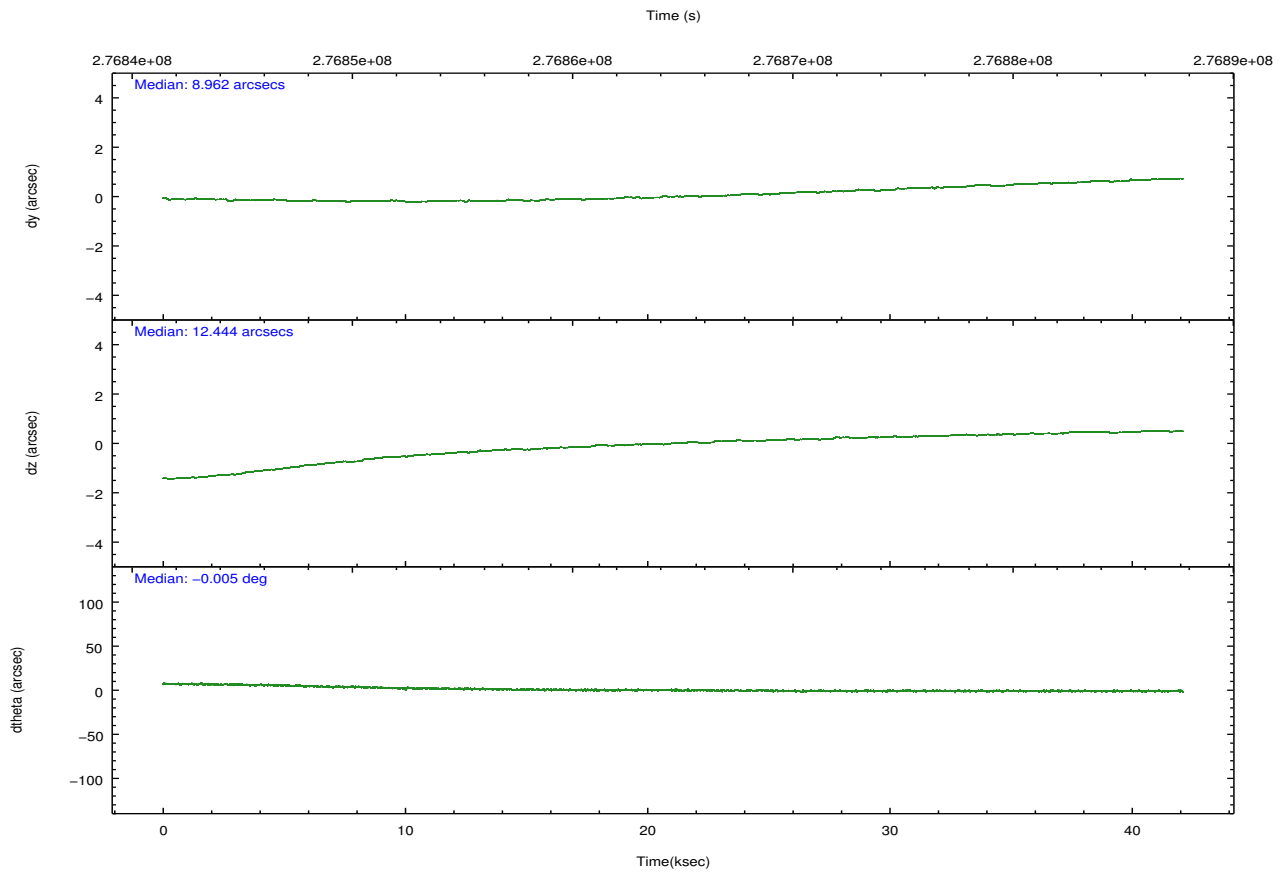
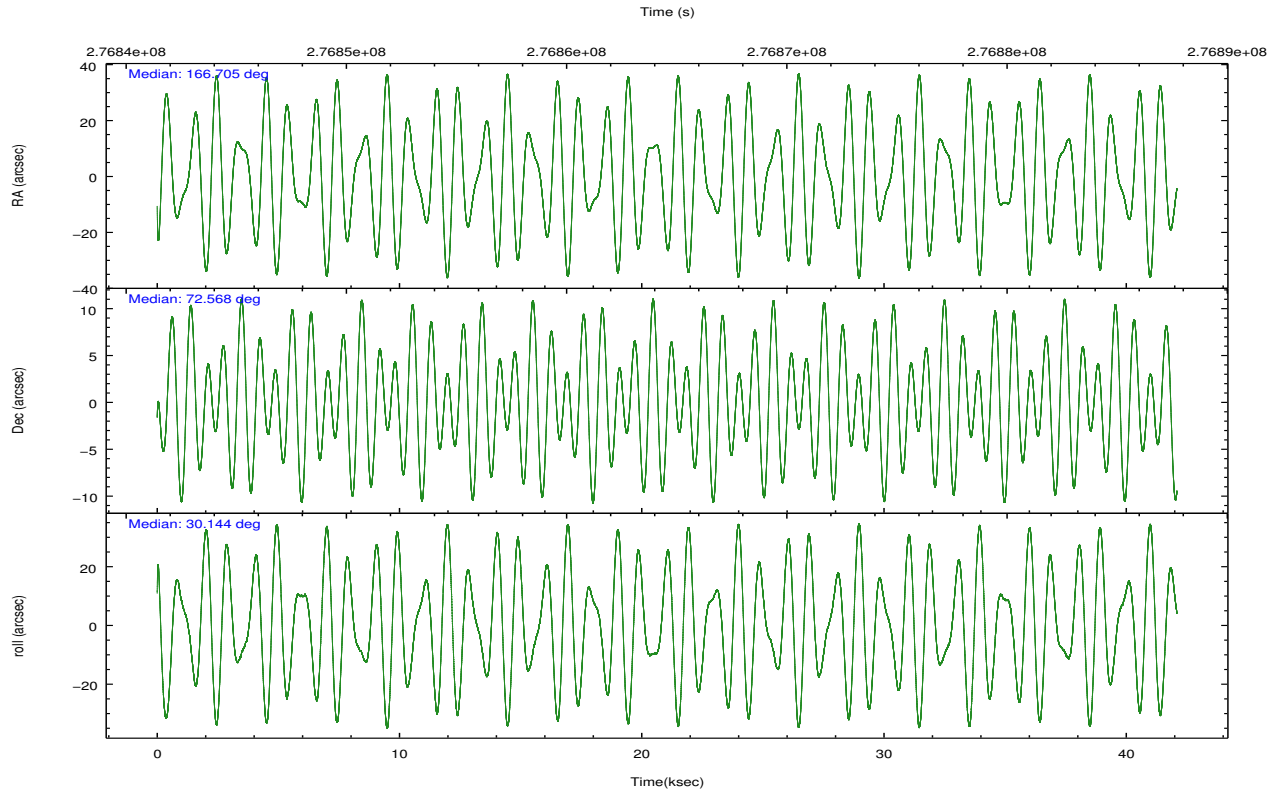
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	343546	454695	312746	426292	381227	295997	grade 0 events	29266	28965	23070	19183	29976	15431
rejected events	292497	239374	264846	234728	291042	258775		8%	6%	7%	4%	7%	5%
rejected %	85%	52%	84%	55%	76%	87%	grade 1 events	326	2215	182	633	233	152
								0%	0%	0%	0%	0%	0%
							grade 2 events	8318	60619	8871	39313	19307	7271
								2%	13%	2%	9%	5%	2%
							grade 3 events	3866	9348	4159	17272	9549	3850
								1%	2%	1%	4%	2%	1%
							grade 4 events	3729	9121	4169	17338	8713	3699
								1%	2%	1%	4%	2%	1%
							grade 5 events	12892	33196	13309	38802	17831	14314
								3%	7%	4%	9%	4%	4%
							grade 6 events	5912	107505	7671	98695	22751	7005
								1%	23%	2%	23%	5%	2%
							grade 7 events	279237	203726	251315	195056	272867	244275
								81%	44%	80%	45%	71%	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	166.660615	166.7047504700286	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	72.544351	72.56814920973778	Subarray start row	1	1
[deg] Pointing Roll	30.035981	30.15050486006576	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	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	276843663.184000	276842634.2296			
Observation start date	2006-10-10T04:59:58	2006-10-10T04:43:54			
[s] Observation end time (MET)	276885611.184000	276885825.68164			
Observation end date	2006-10-10T16:39:06	2006-10-10T16:43:45			
Read mode	TIMED	TIMED			

2.3 Aspect



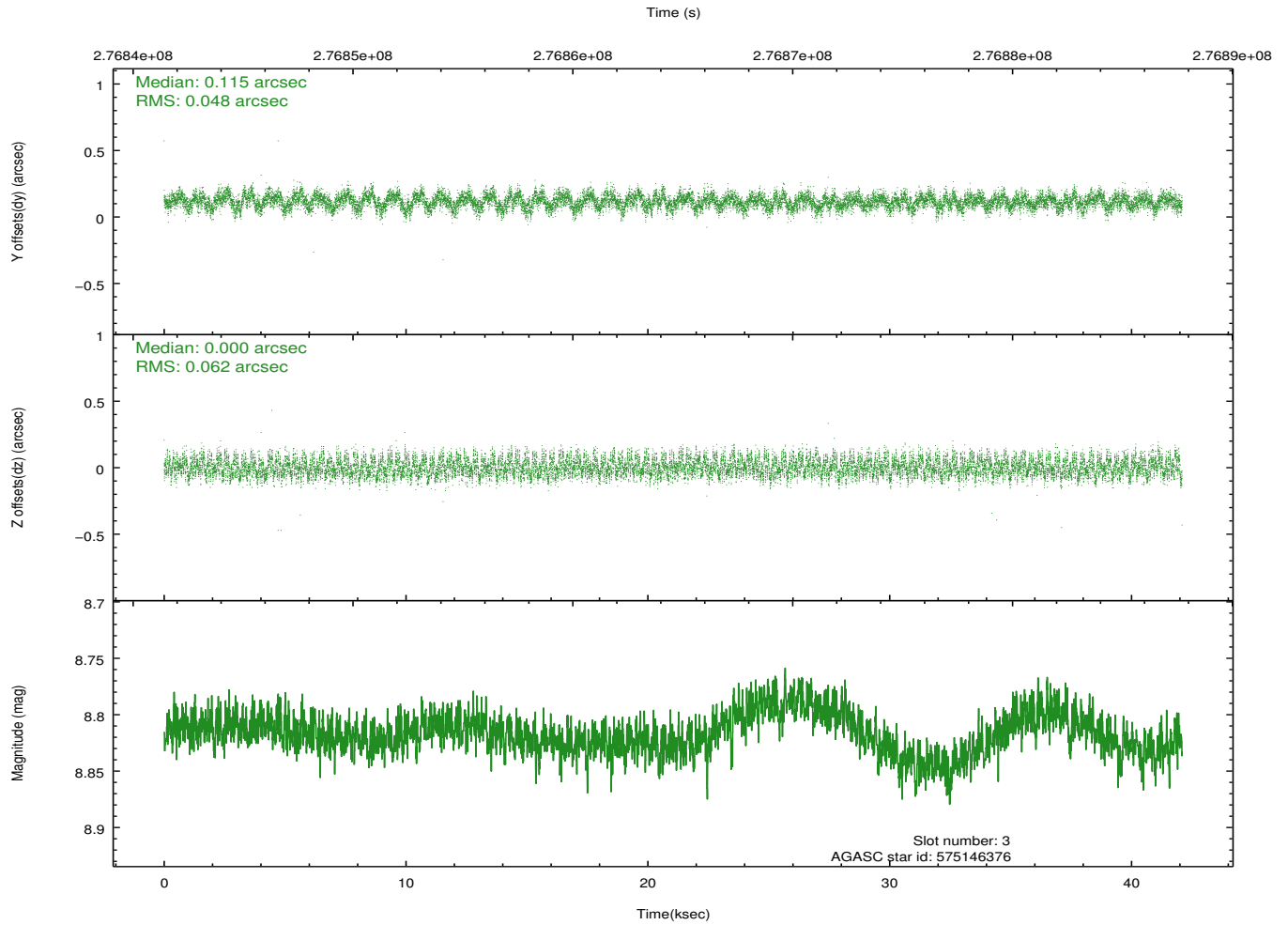
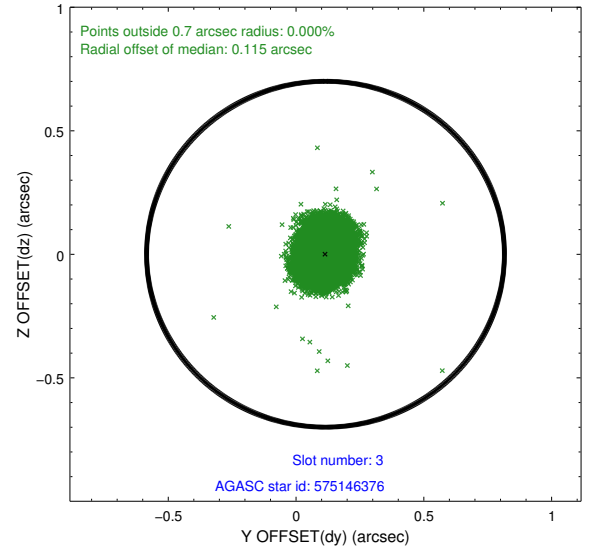
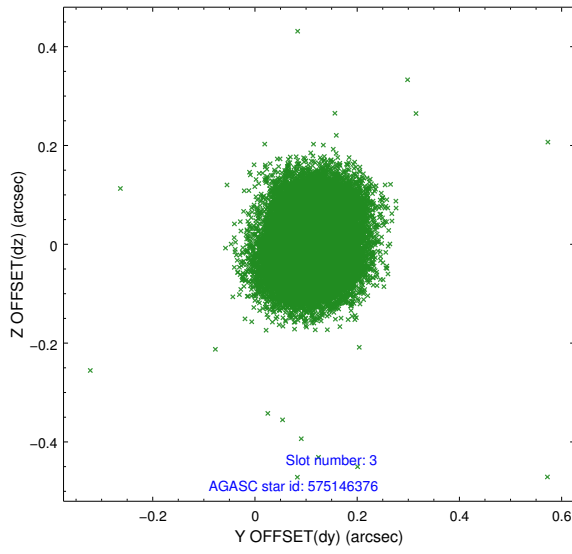


Slot Statistics

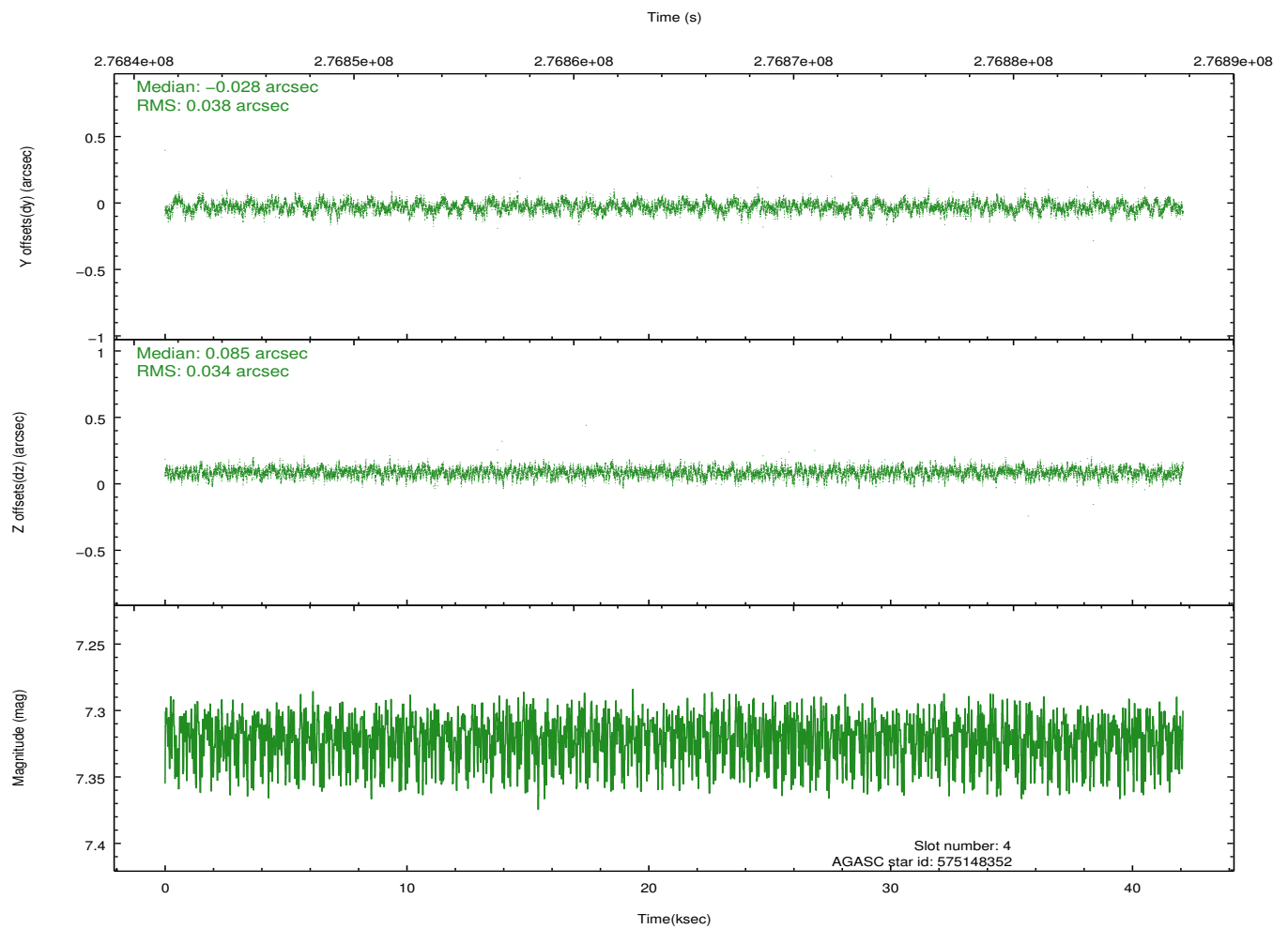
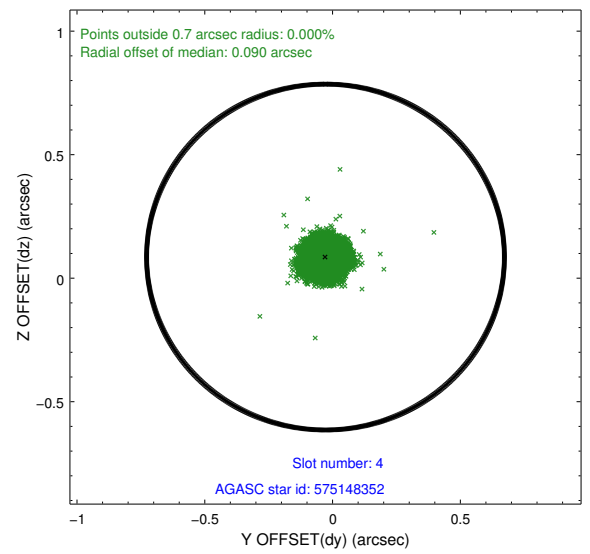
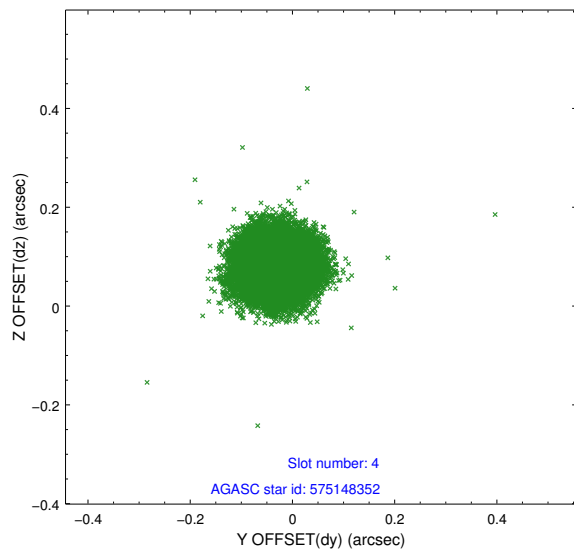
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.19	10266	0.136	0.018	0.009	0.014	0.000000	0.000000	2151.81	113.00
1	FID	ACIS-S-5	7.24	10267	-0.196	0.004	0.015	0.022	0.000000	0.000000	-1814.70	106.45
2	FID	ACIS-S-6	7.37	10265	0.032	-0.007	0.016	0.027	0.000000	0.000000	399.96	750.18
3	GUIDE	575146376	8.82	20522	0.115	0.000	0.084	0.131	166.888472	72.124920	-536.93	-1432.53
4	GUIDE	575148352	7.32	20534	-0.028	0.085	0.054	0.087	167.090916	71.958979	-638.29	-2062.76
5	GUIDE	575150616	8.22	20531	0.007	0.106	0.064	0.105	167.218511	72.045663	-360.59	-1861.17
6	GUIDE	575541080	8.93	20511	-0.357	0.042	0.082	0.132	167.870403	73.115273	2130.10	1157.79
7	GUIDE	575541344	9.37	20518	0.267	-0.232	0.090	0.147	166.947366	72.953762	1000.71	1125.39

2.4 Star Slots

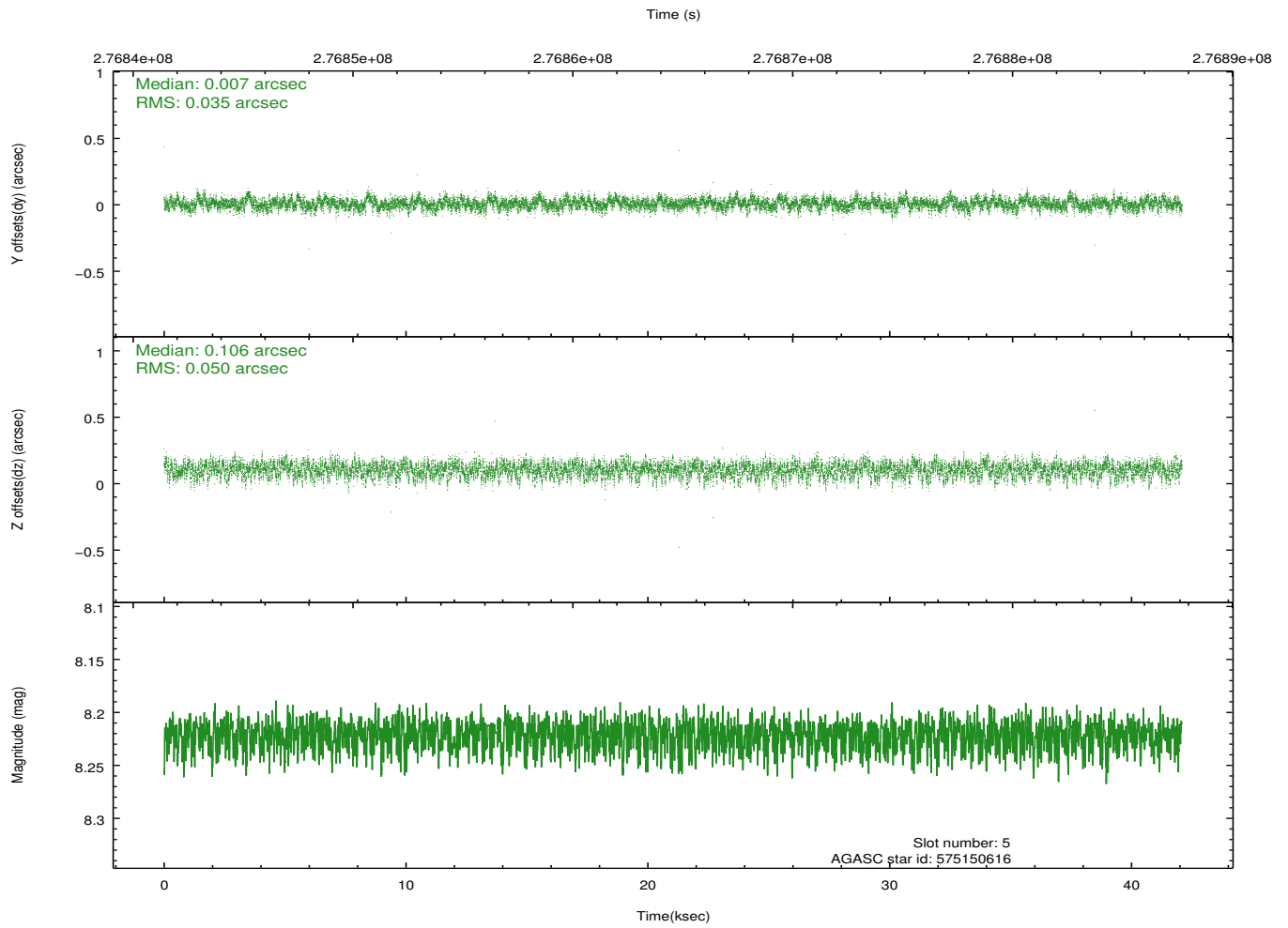
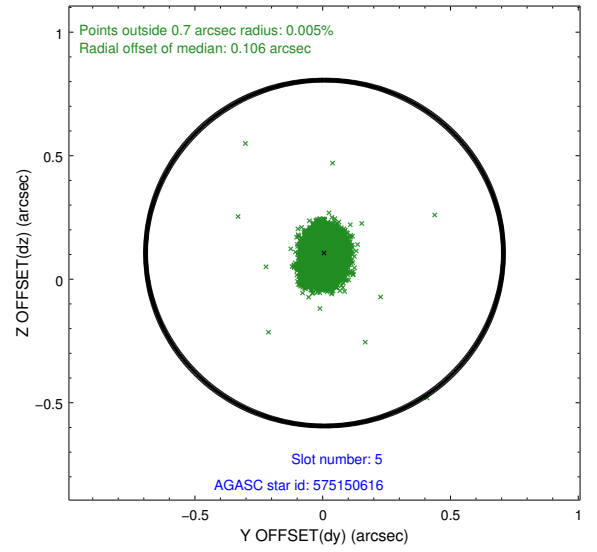
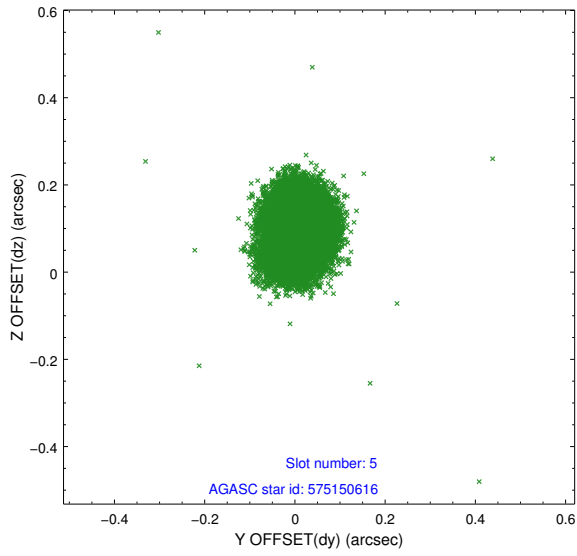
2.4.1 Slot 3



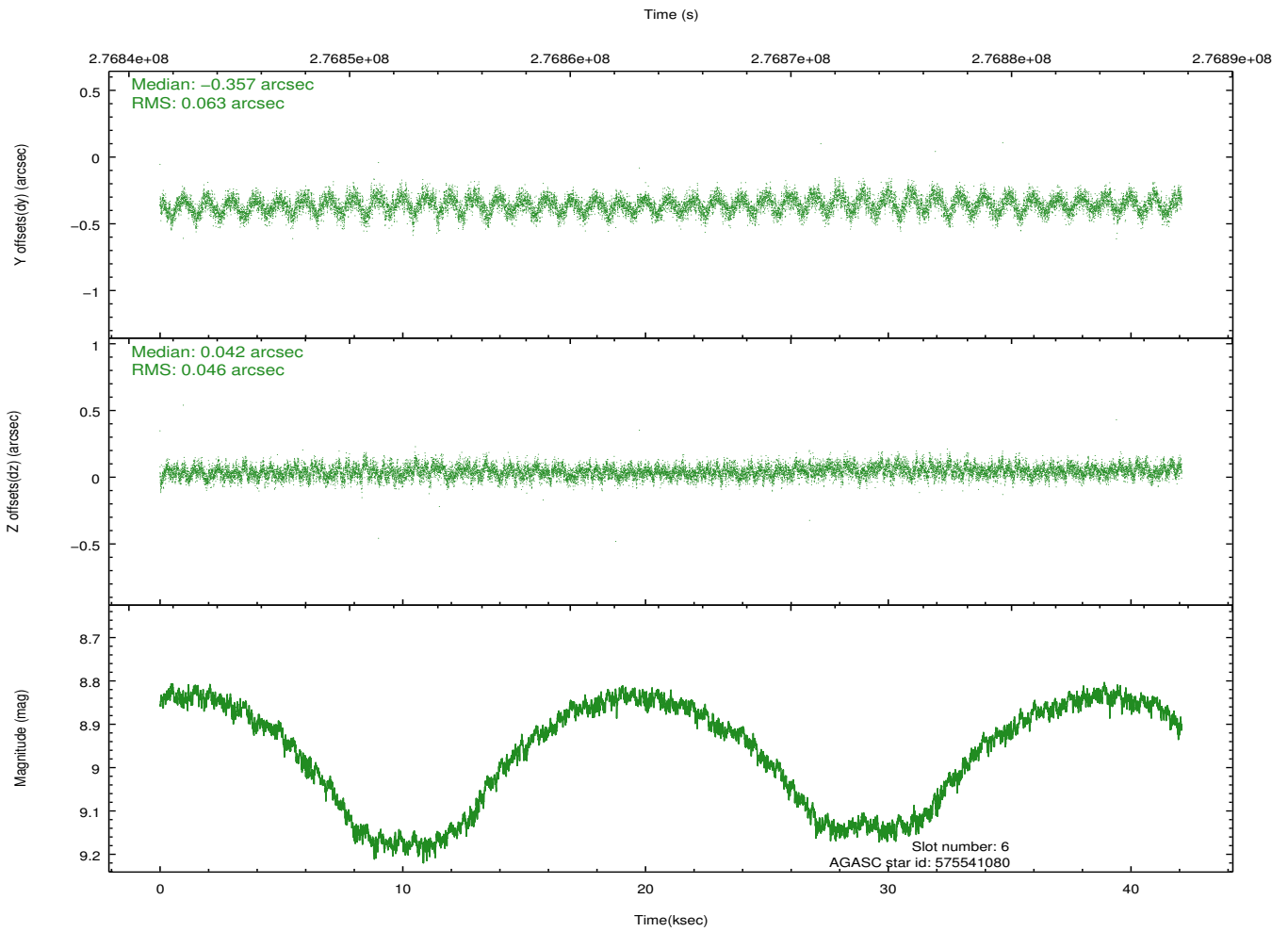
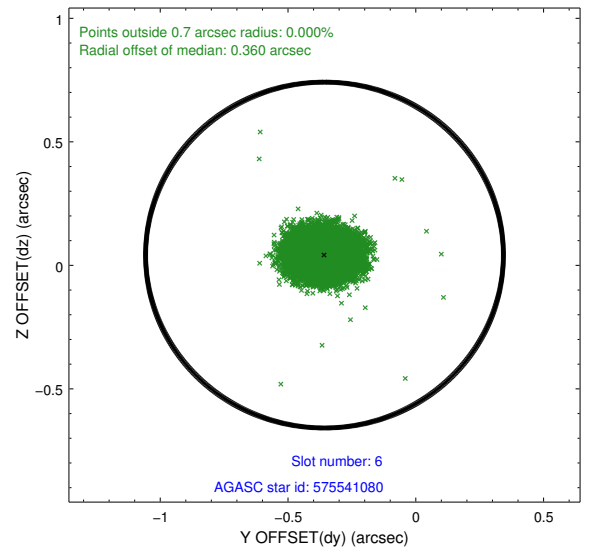
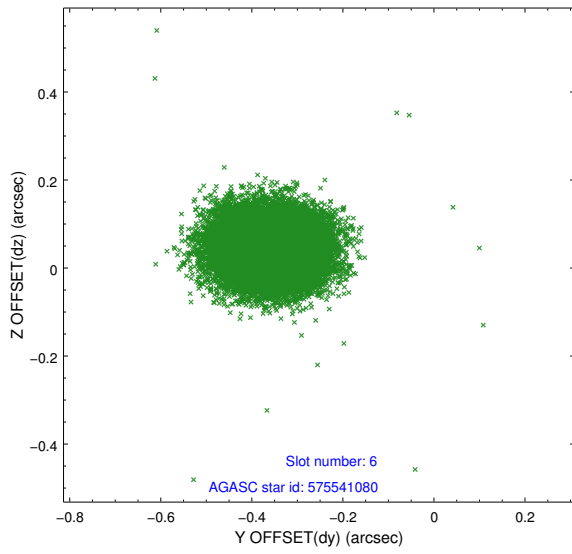
2.4.2 Slot 4



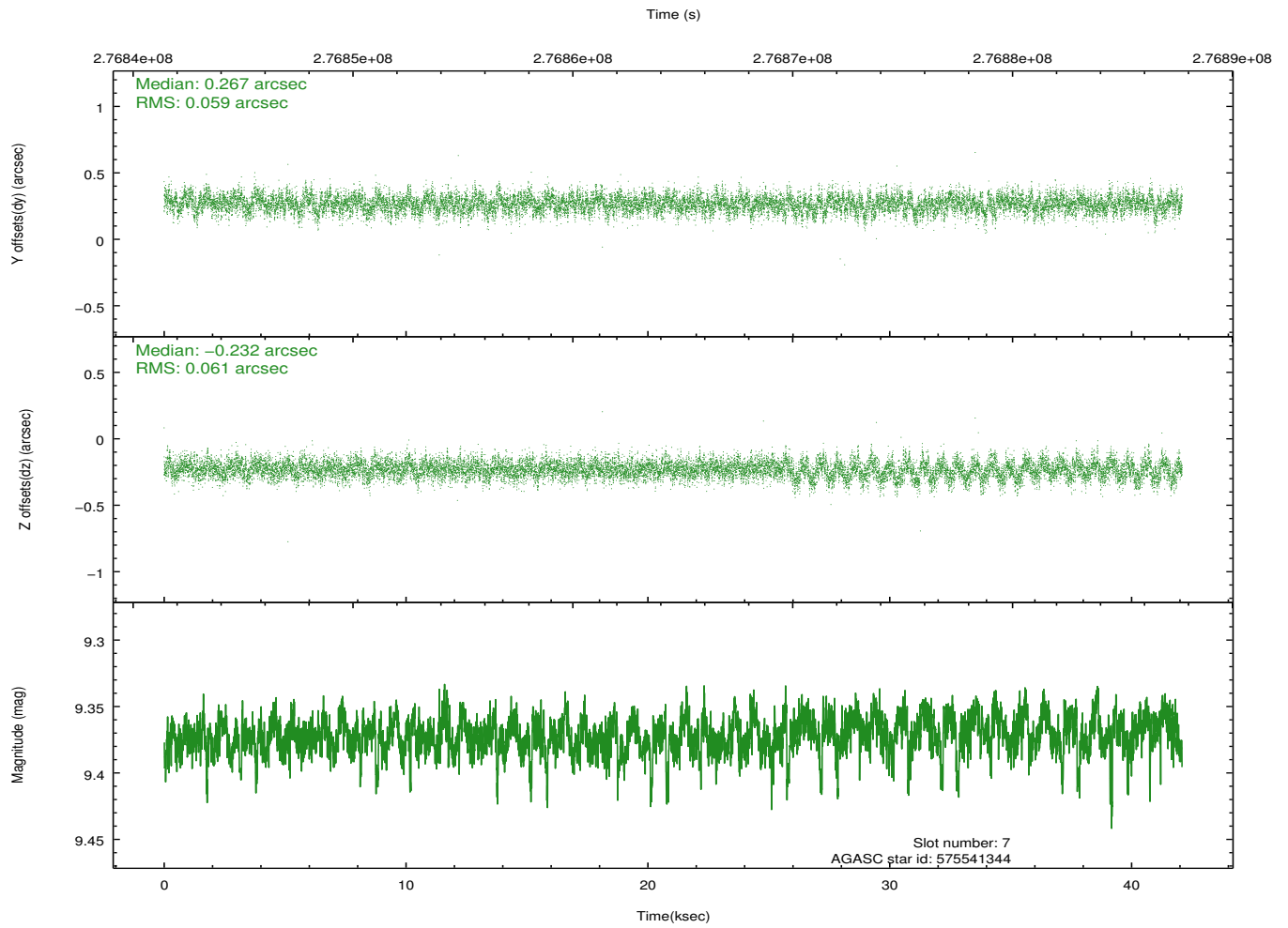
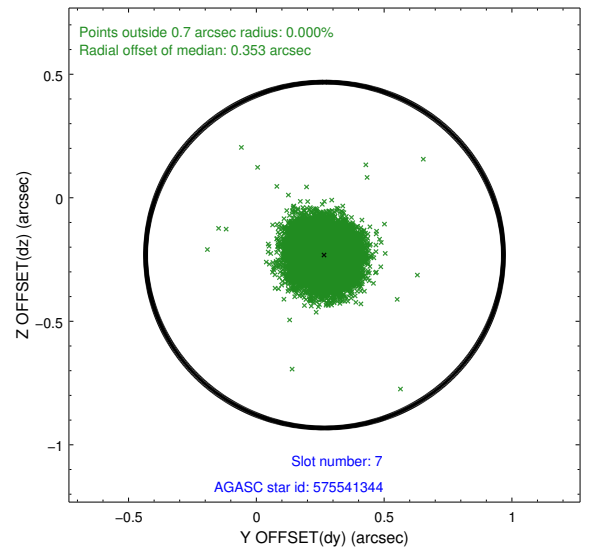
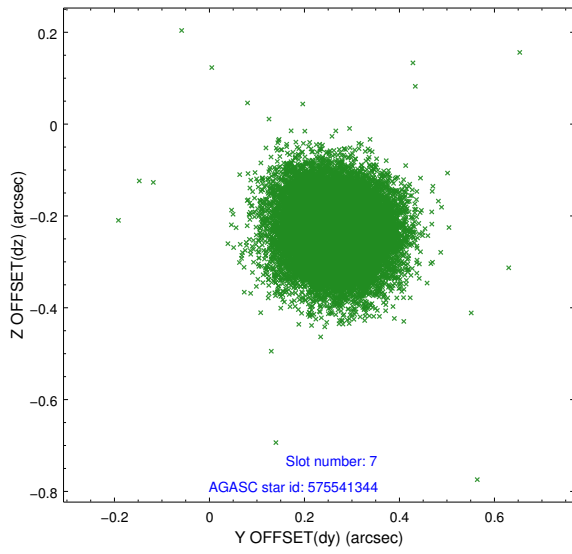
2.4.3 Slot 5



2.4.4 Slot 6

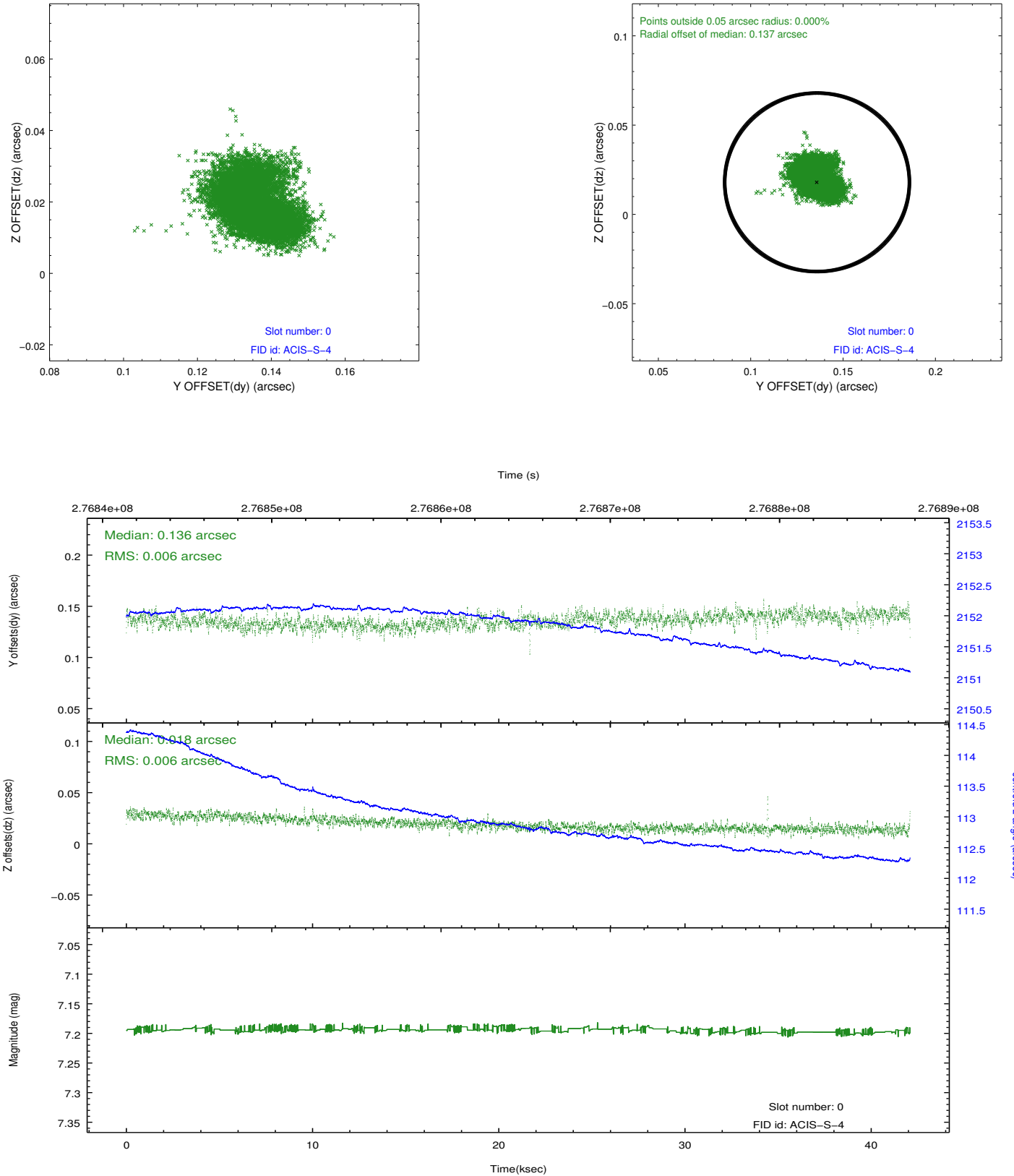


2.4.5 Slot 7

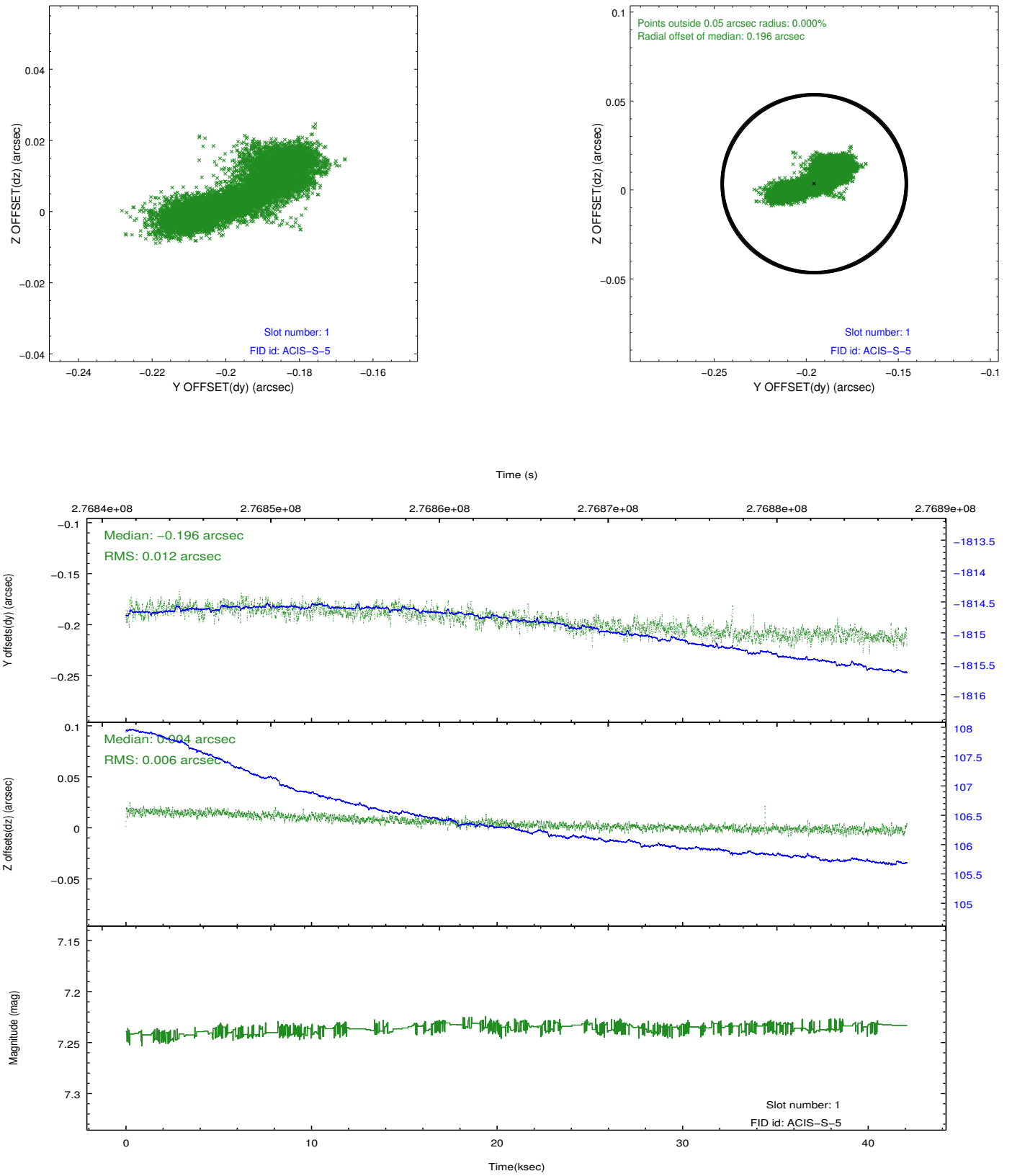


2.5 FID Slots

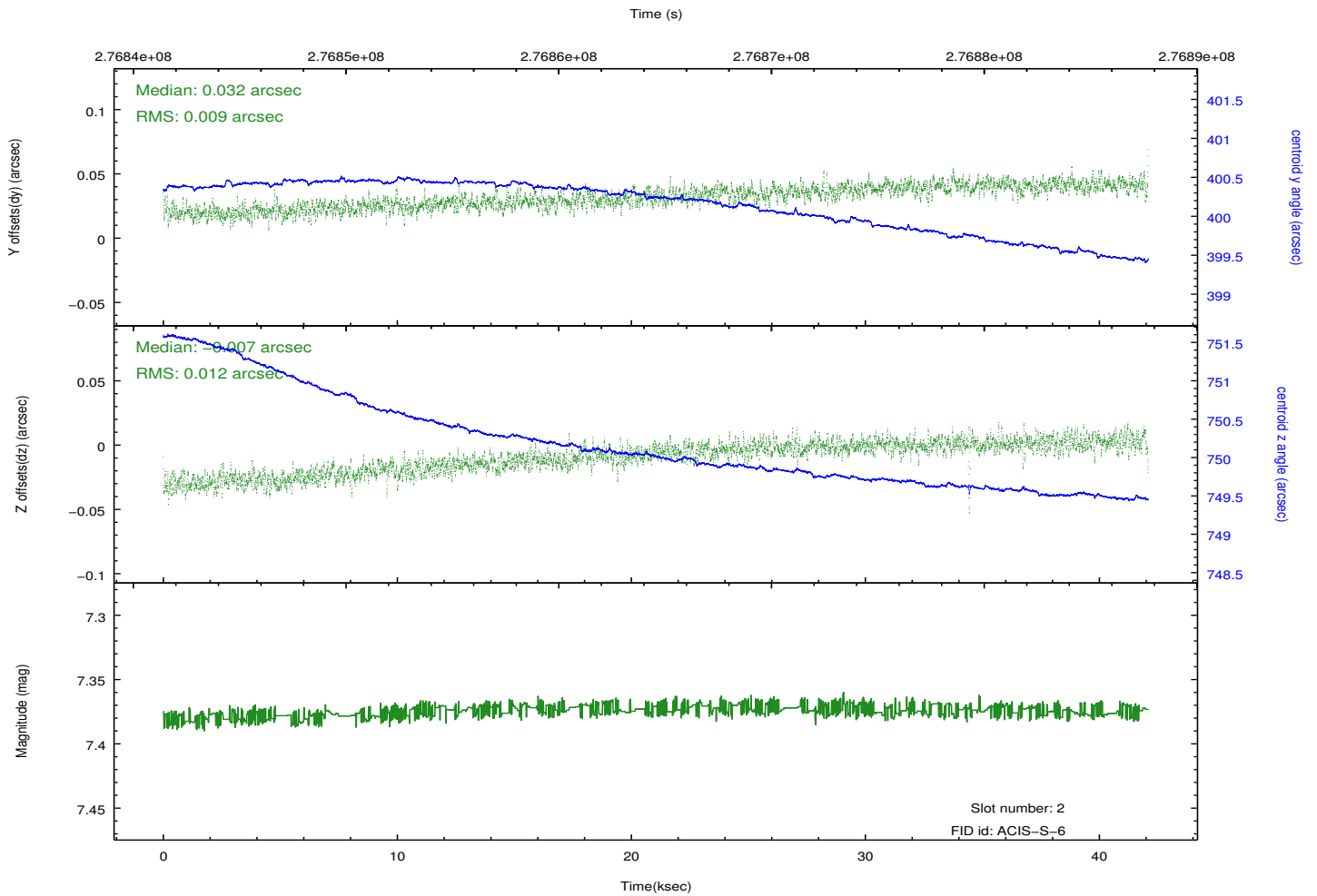
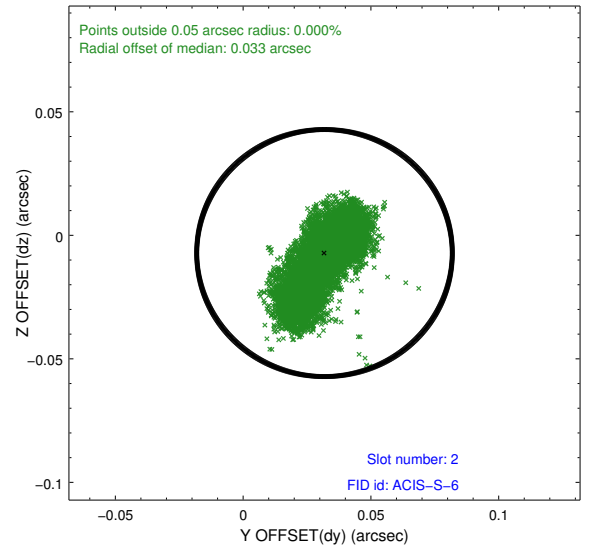
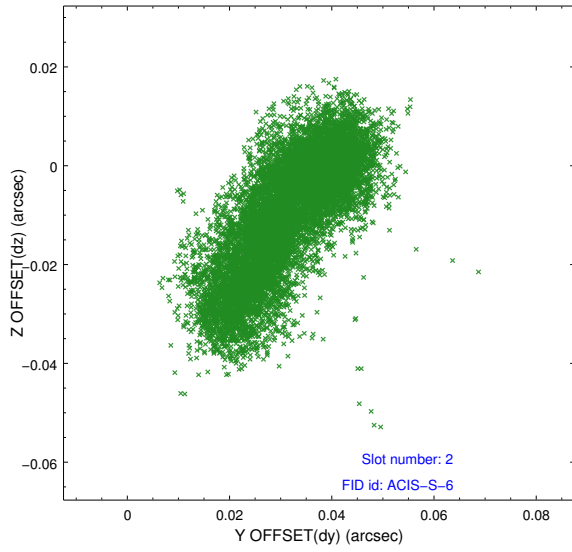
2.5.1 Slot 0



2.5.2 Slot 1

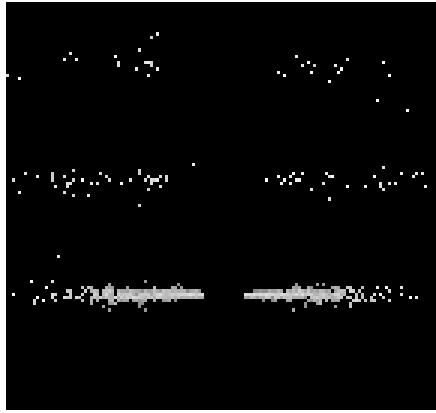


2.5.3 Slot 2

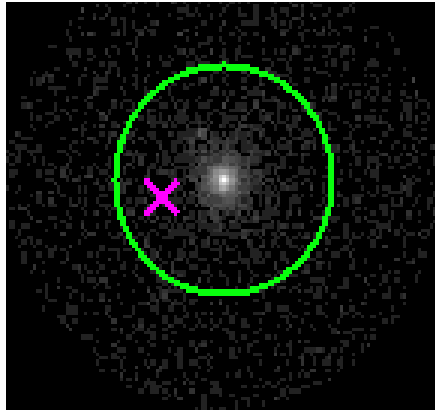


3 Gratings

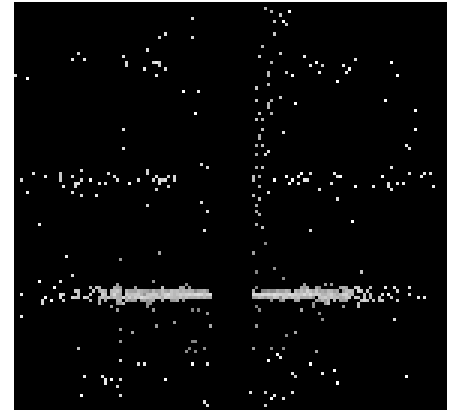
3.1 HEG Arm



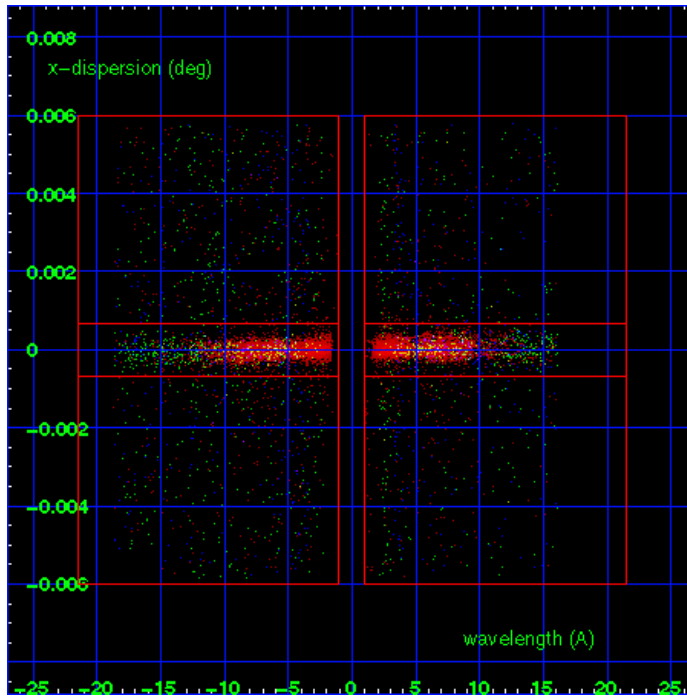
HEG Order Sort 123



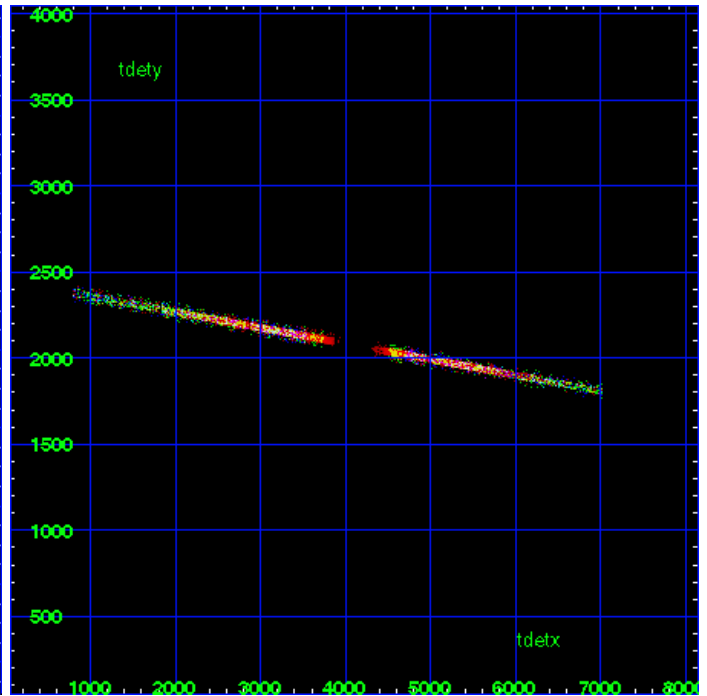
HEG Zero Order



HEG Order Sort ALL

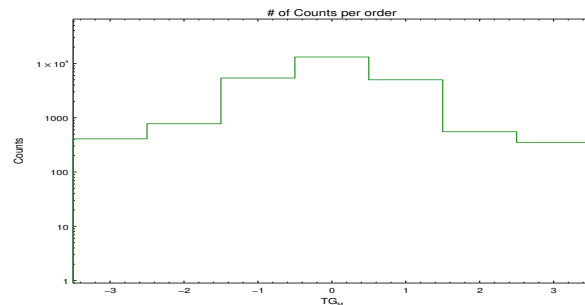


Spot Image HEG

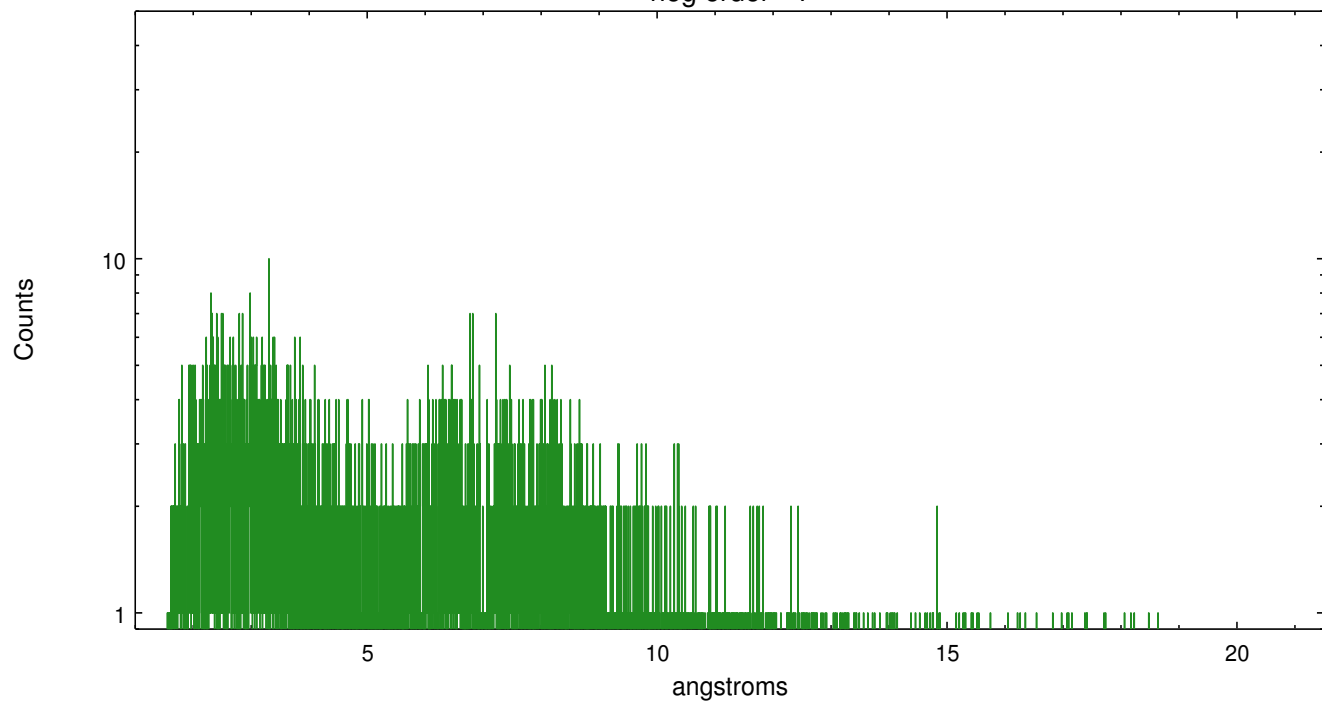


Full Detector HEG

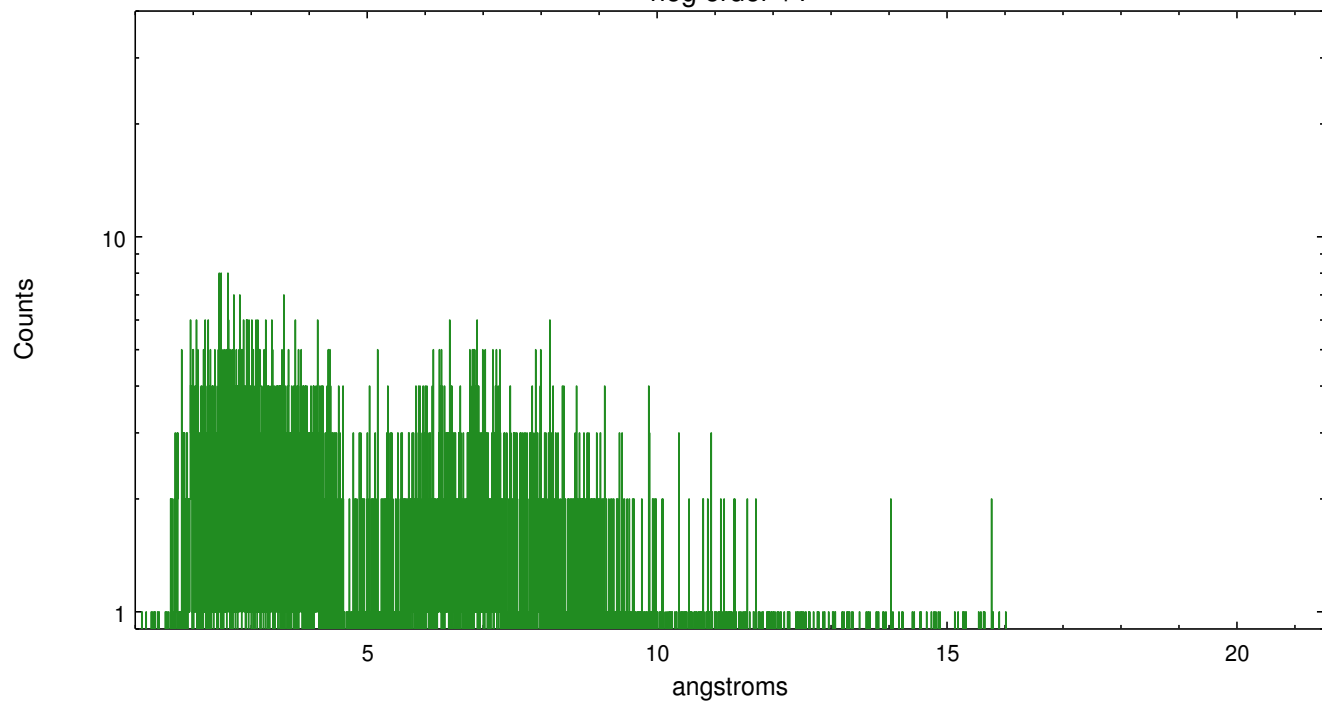
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	408	775	5389	13147	4997	552	352



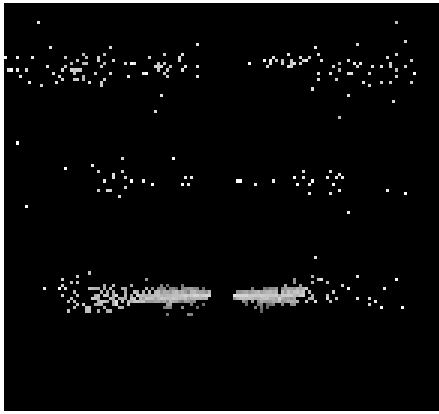
heg order -1



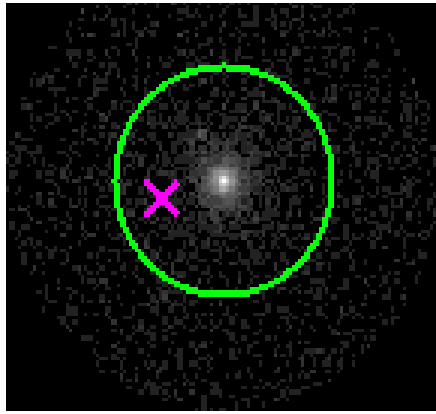
heg order +1



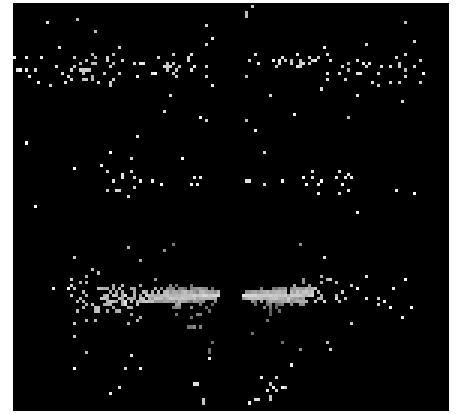
3.2 MEG Arm



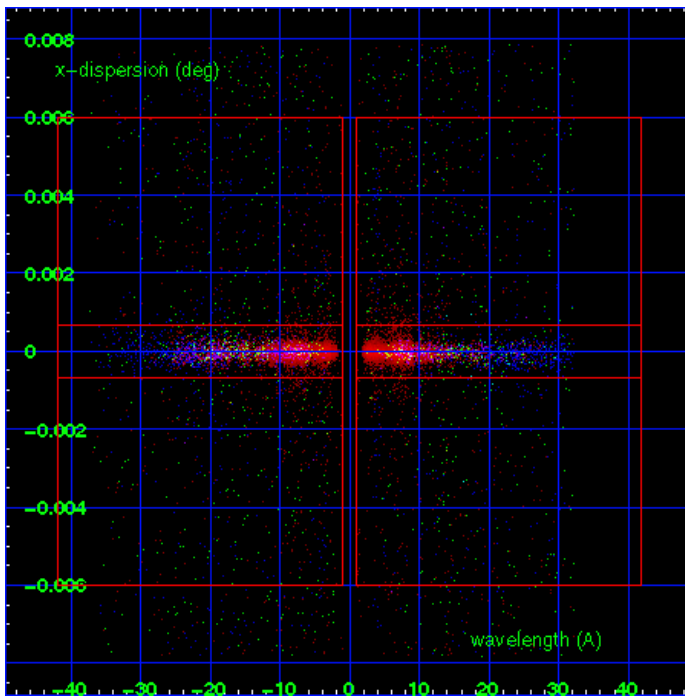
MEG Order Sort 123



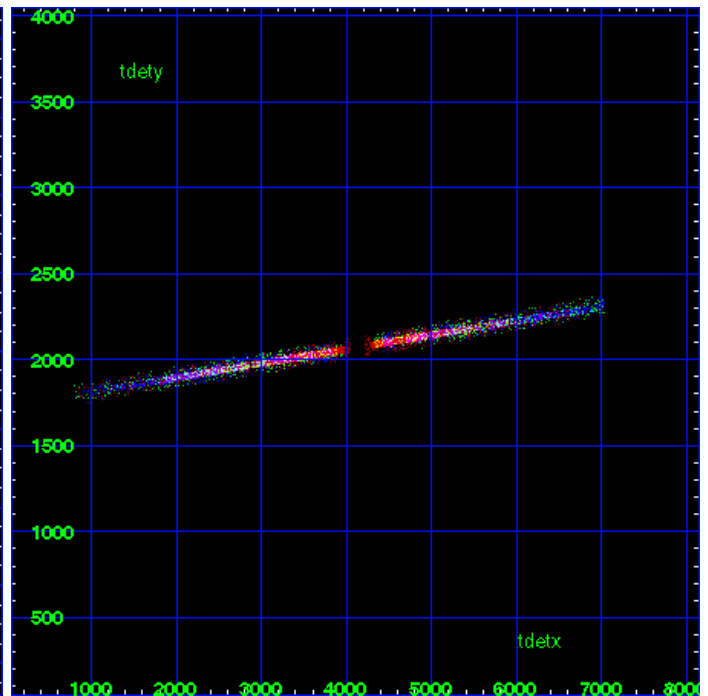
MEG Zero Order



MEG Order Sort ALL

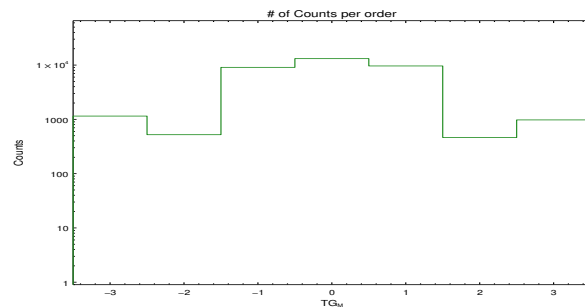


Spot Image MEG

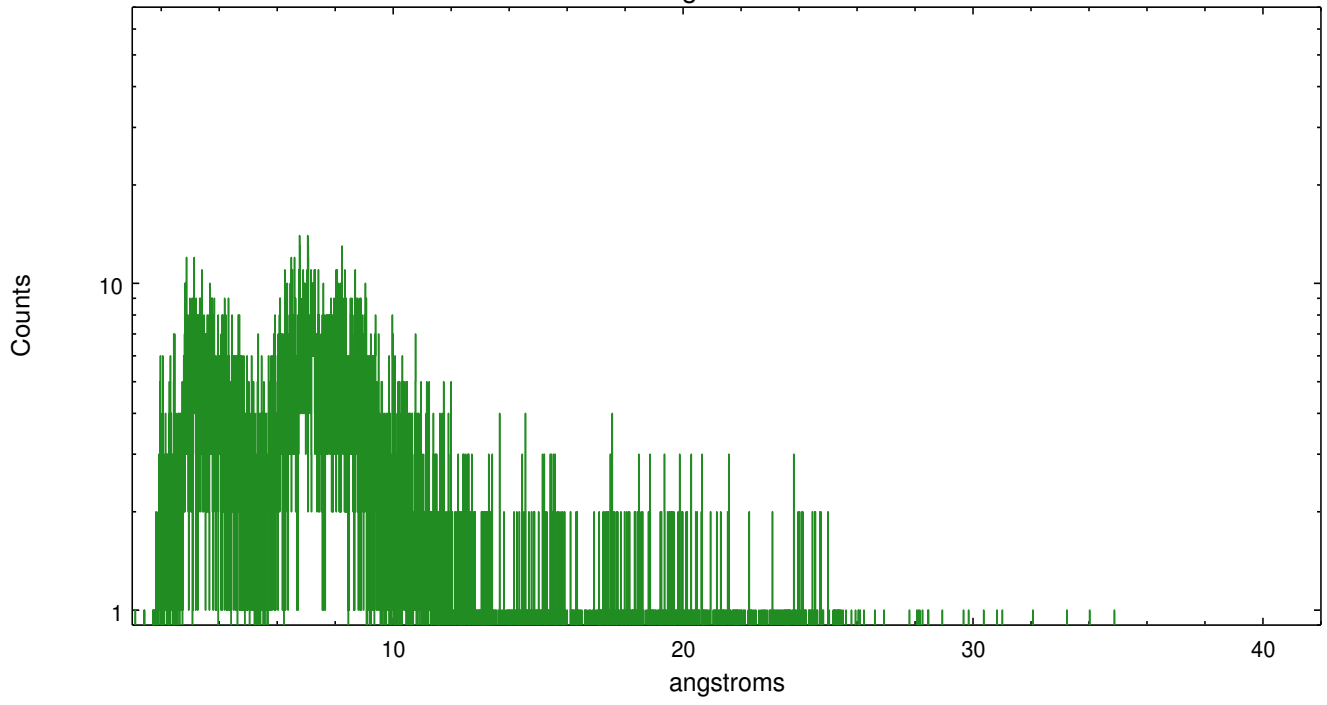


Full Detector MEG

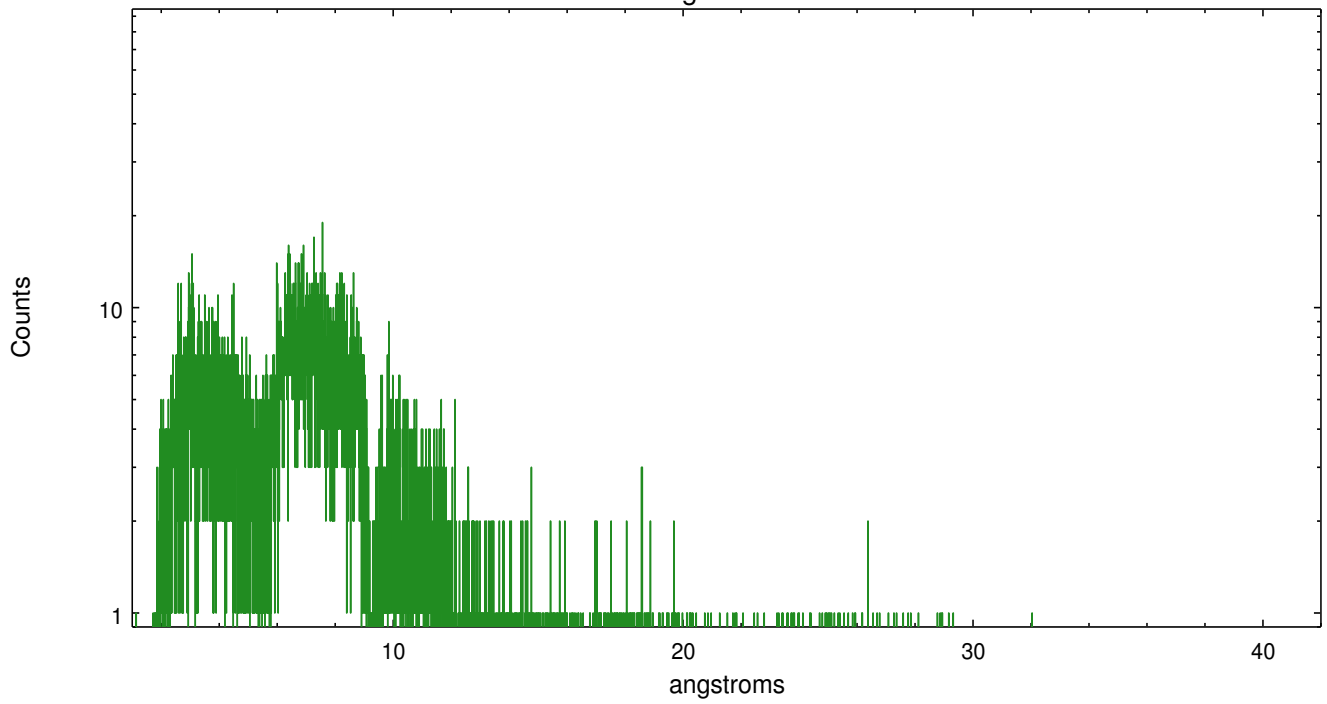
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1149	522	9076	13147	9638	463	977



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.09

A.2 Comments