

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8375 - L2 Version 2
Chandra X-Ray Center

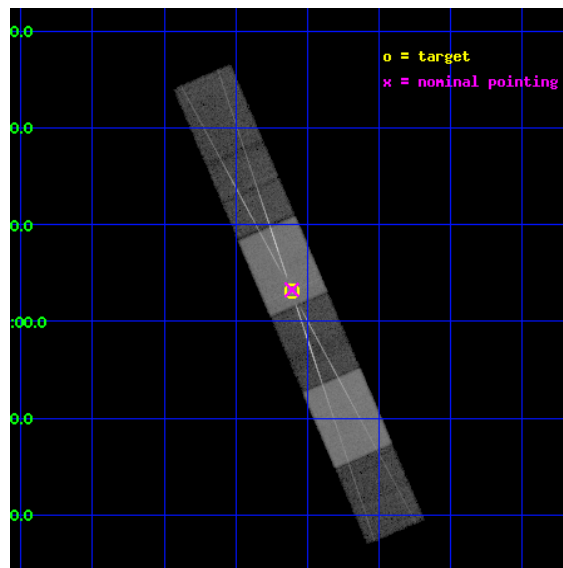
L2 Processing Date : Apr 27 2012

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1 Front

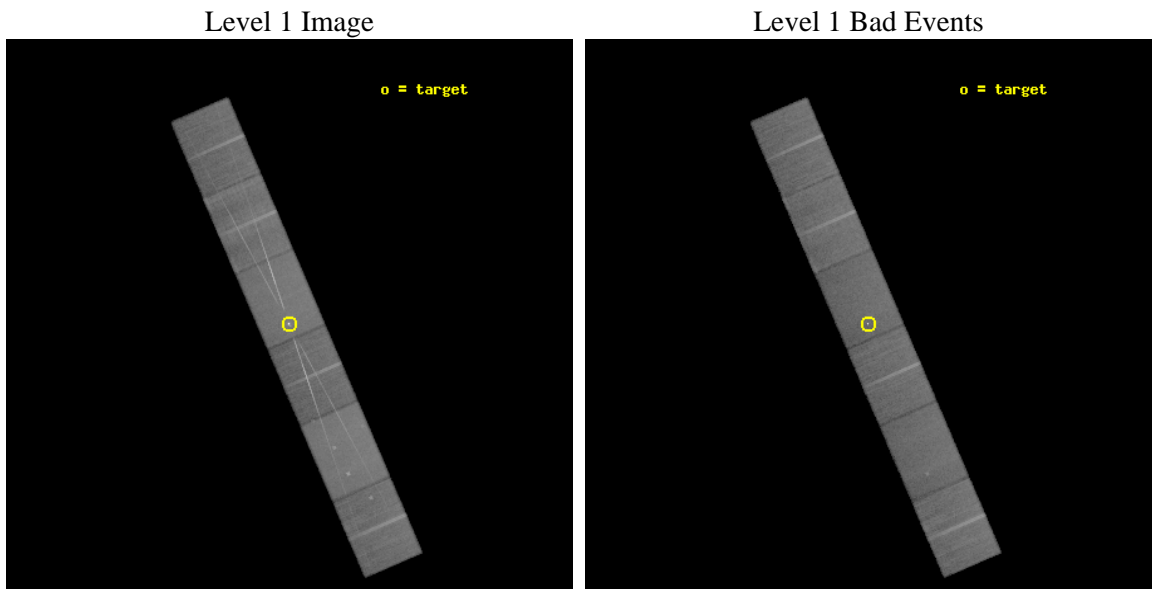
seq_num	790113	Sequence number
obs_id	8375	Observation id
title	AO8 Calibration Observations of 3C273	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	3C273	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.277917	Observer's specified target RA [deg]
dec_targ	2.052389	Observer's specified target Dec [deg]
ra_nom	187.27698888642	Nominal RA [deg]
dec_nom	2.0542855049657	Nominal Dec [deg]
roll_nom	246.63231876185	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30040.0	Sum of GTIs [s]
livetime	29554.827944464	Livetime [s]
ontime4	30040.0	Sum of GTIs [s]
ontime5	30040.0	Sum of GTIs [s]
ontime6	30039.987938464	Sum of GTIs [s]
ontime7	30040.0	Sum of GTIs [s]
ontime8	30039.94689846	Sum of GTIs [s]
ontime9	30037.364868164	Sum of GTIs [s]
l2events	460372	Number of level 2 events



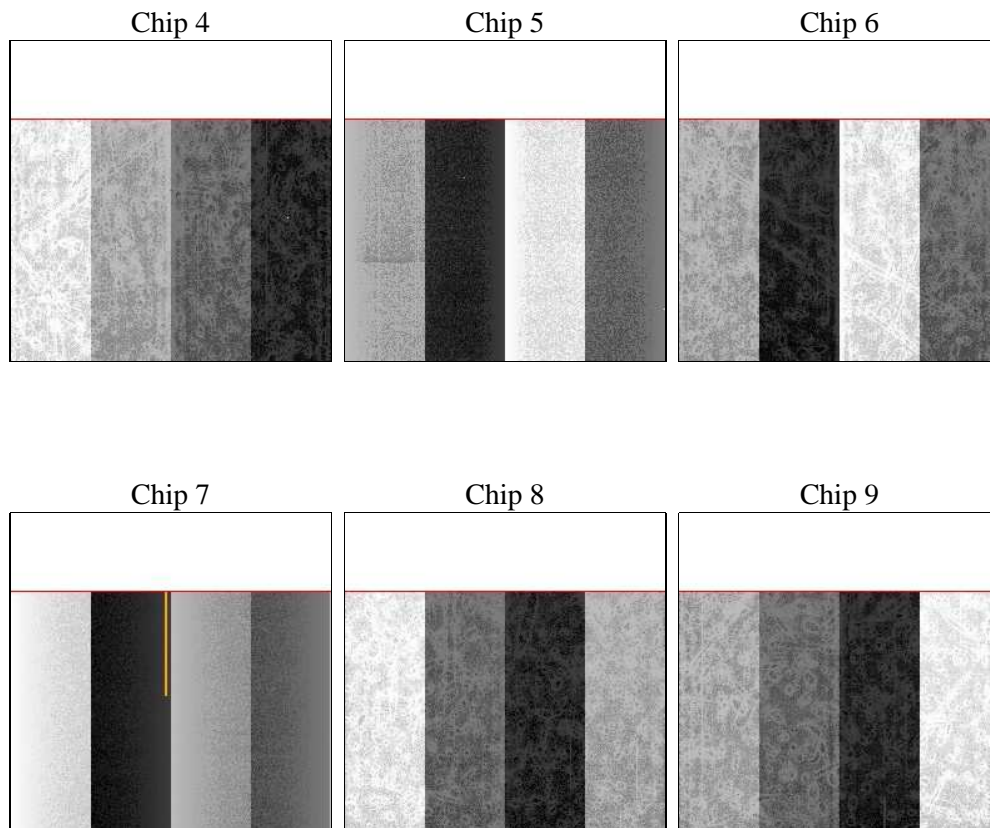
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	30040.0	Sum of GTIs [s]
caldbver	4.4.9	 	ontime4	30040.0	Sum of GTIs [s]
date	2012-04-27T02:20:55	Date and time of file creation	ontime5	30040.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	30039.987938464	Sum of GTIs [s]
			ontime7	30040.0	Sum of GTIs [s]
			ontime8	30039.94689846	Sum of GTIs [s]
			ontime9	30037.364868164	Sum of GTIs [s]
			l1events	1719014	Number of level 1 events

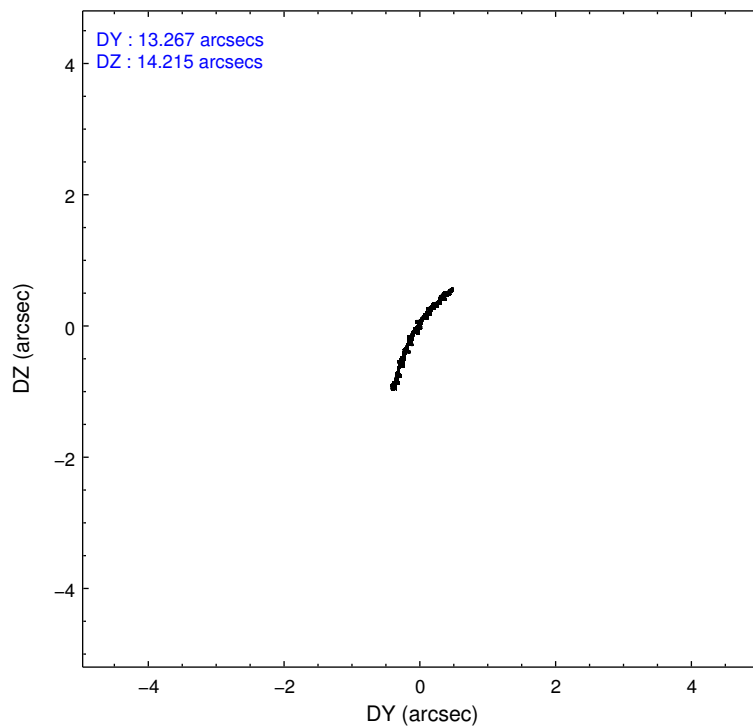
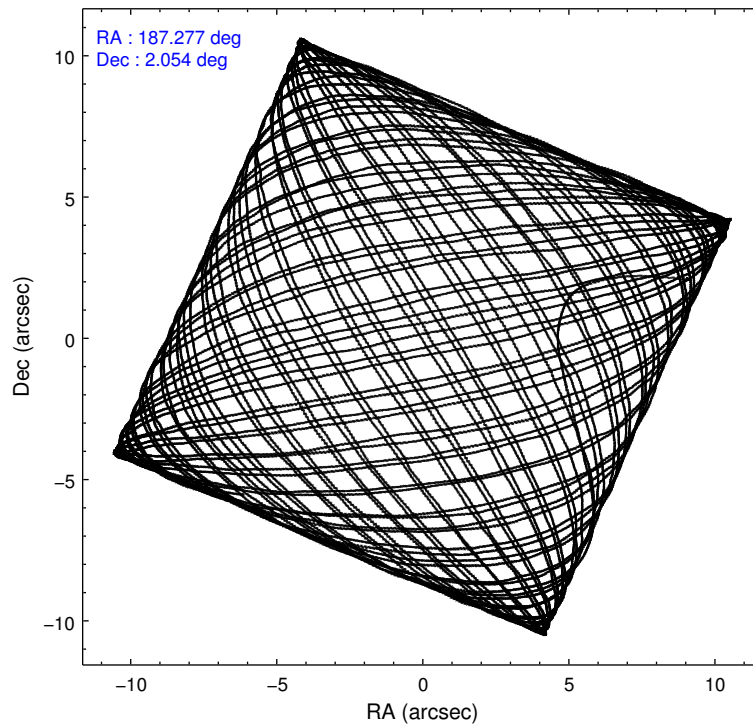
2.1.4 Events

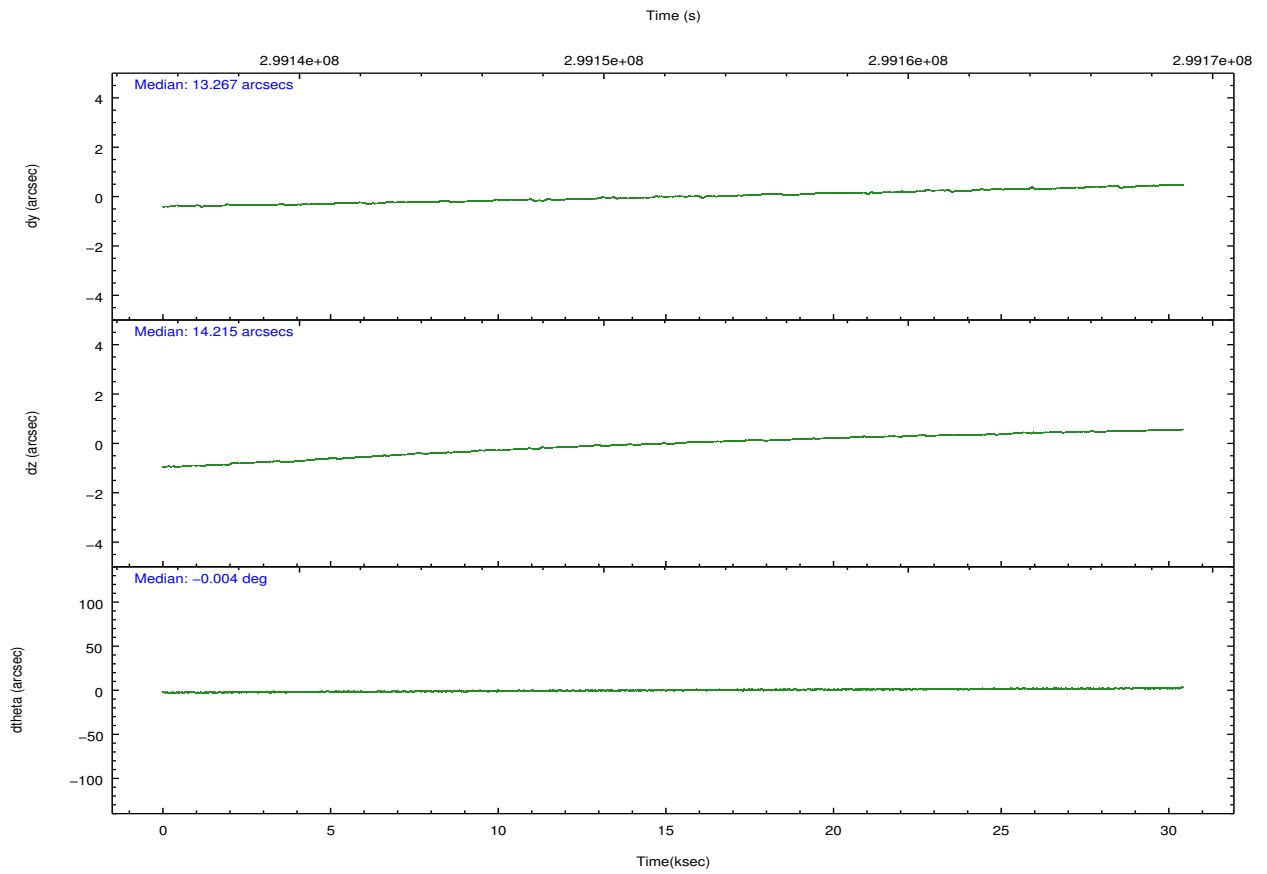
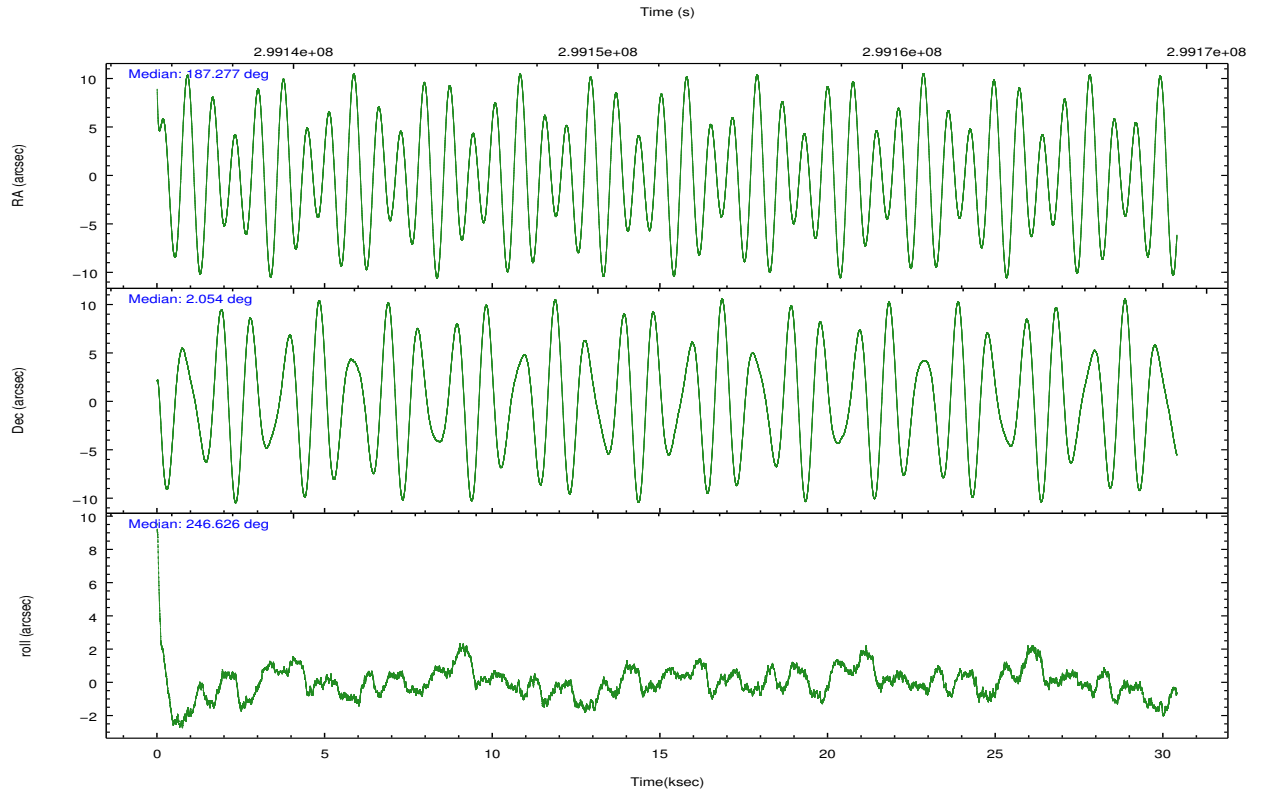
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	251505	344335	256298	346527	293886	226463	grade 0 events	15324	16159	33832	19075	30652	13475
rejected events	219489	181581	198912	182499	217052	196107		6%	4%	13%	5%	10%	5%
rejected %	87%	52%	77%	52%	73%	86%	grade 1 events	197	837	226	535	239	137
								0%	0%	0%	0%	0%	0%
							grade 2 events	6210	48648	9362	34554	15171	5744
								2%	14%	3%	9%	5%	2%
							grade 3 events	2934	7387	3795	14997	7274	2873
								1%	2%	1%	4%	2%	1%
							grade 4 events	2922	7403	3841	14853	6890	2910
								1%	2%	1%	4%	2%	1%
							grade 5 events	9688	24425	10222	29688	13378	10872
								3%	7%	3%	8%	4%	4%
							grade 6 events	4636	83188	6566	80570	16860	5363
								1%	24%	2%	23%	5%	2%
							grade 7 events	209594	156288	188454	152255	203422	185089
								83%	45%	73%	43%	69%	81%

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	187.273457	187.2769888864229	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	2.081411	2.054285504965693	Subarray start row	1	1
[deg] Pointing Roll	246.475814	246.6323187618488	Subarray row count	774	774
[s] Window start time (MET)	294364865.184000	294364865.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	304905665.184000	304905665.184000	[s] Primary exposure time	0.000000	2.5
[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			
[s] Observation start time (MET)	299137477.184000	299136308.41345			
Observation start date	2007-06-25T05:43:32	2007-06-25T05:25:08			
[s] Observation end time (MET)	299167477.184000	299167822.55246			
Observation end date	2007-06-25T14:03:32	2007-06-25T14:10:22			
Read mode	TIMED	TIMED			

2.3 Aspect



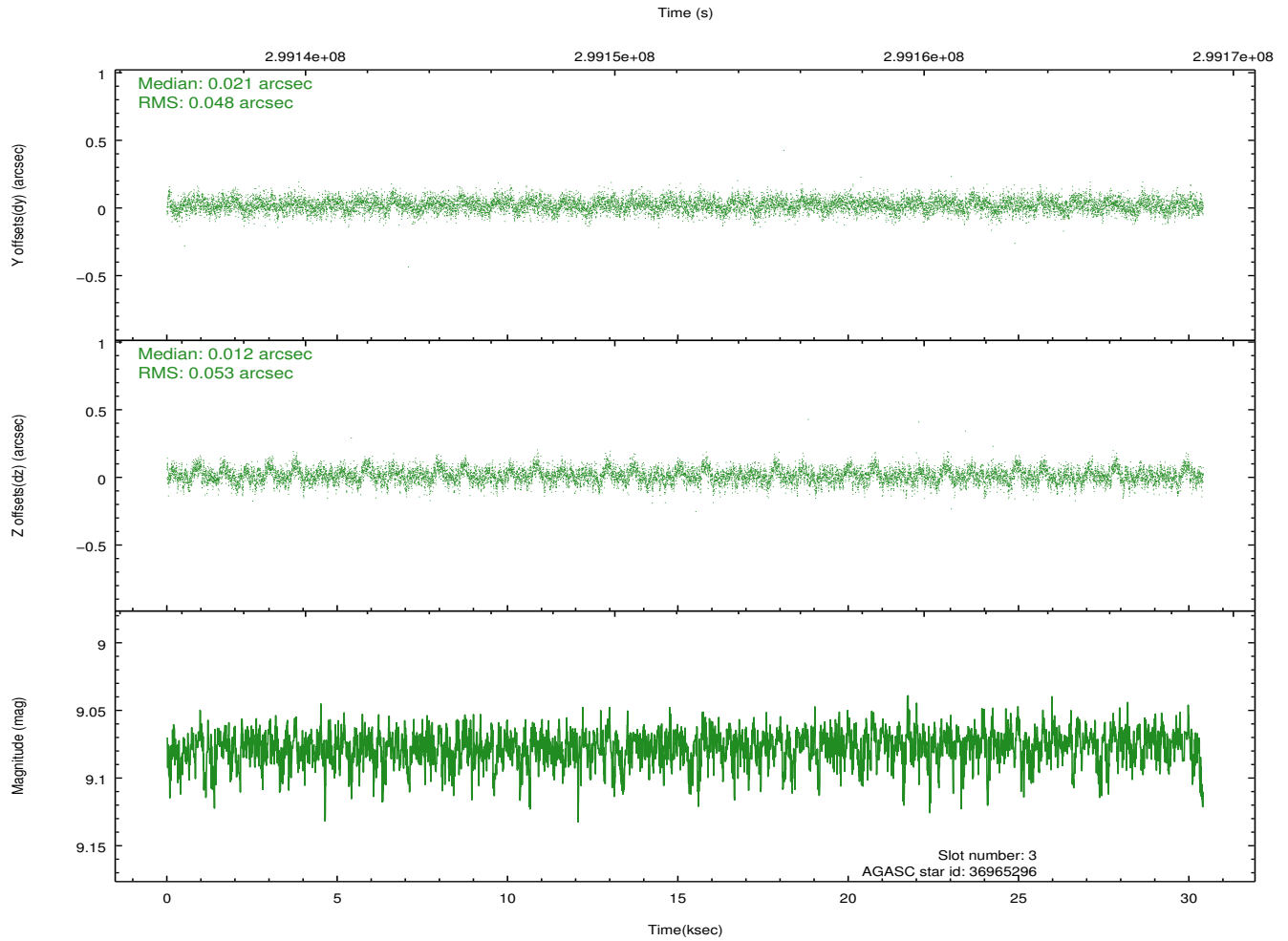
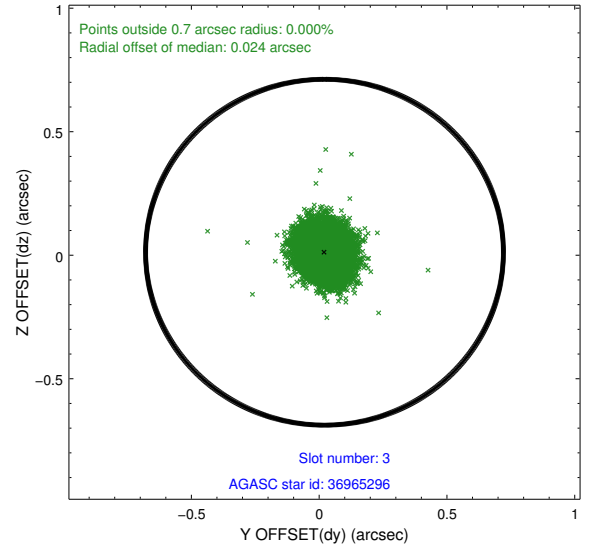
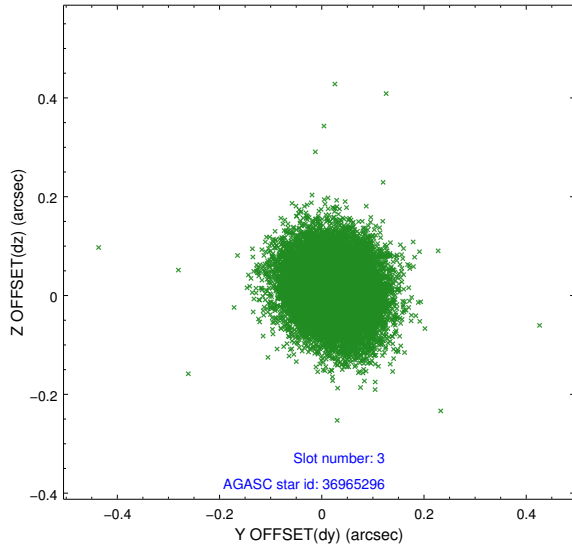


Slot Statistics

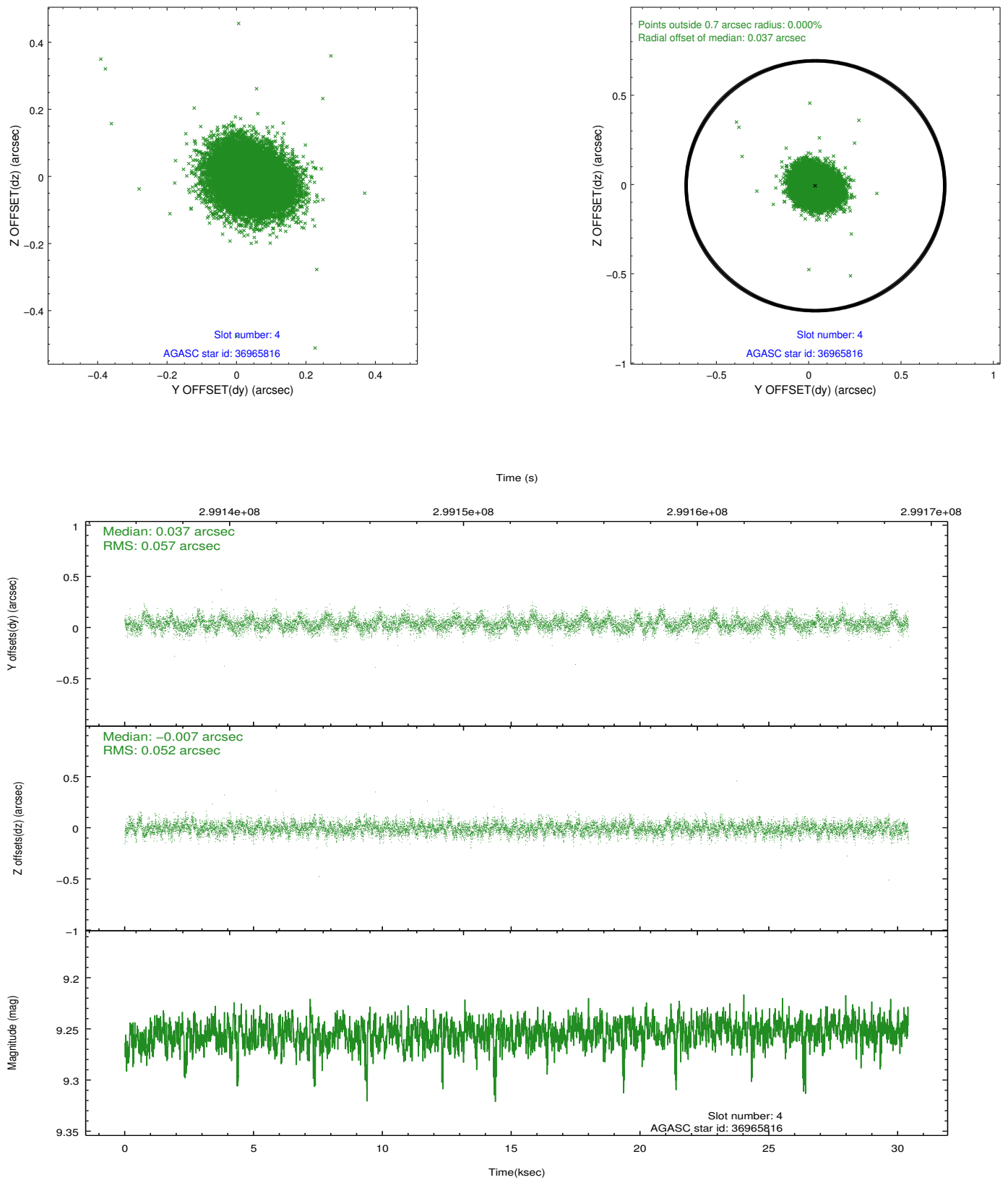
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	7418	-0.088	-0.093	0.024	0.034	0.000000	0.000000	-766.09	-1797.67
1	FID	ACIS-S-4	7.18	7416	0.209	0.067	0.011	0.022	0.000000	0.000000	2147.47	110.86
2	FID	ACIS-S-5	7.22	7417	-0.152	0.035	0.025	0.036	0.000000	0.000000	-1818.89	104.61
3	GUIDE	36965296	9.08	14829	0.021	0.012	0.076	0.124	186.926292	1.837429	1304.21	-794.85
4	GUIDE	36965816	9.25	14823	0.037	-0.007	0.081	0.133	186.823353	1.771455	1669.90	-1039.61
5	GUIDE	36965896	9.72	14808	0.038	-0.060	0.118	0.185	187.153754	1.617178	1704.67	272.16
6	GUIDE	37356352	7.69	14836	-0.356	-0.138	0.054	0.088	187.433784	2.618460	-2002.79	-243.39
7	GUIDE	37883040	10.01	14816	0.257	0.192	0.134	0.224	187.575516	1.280402	2210.37	2148.26

2.4 Star Slots

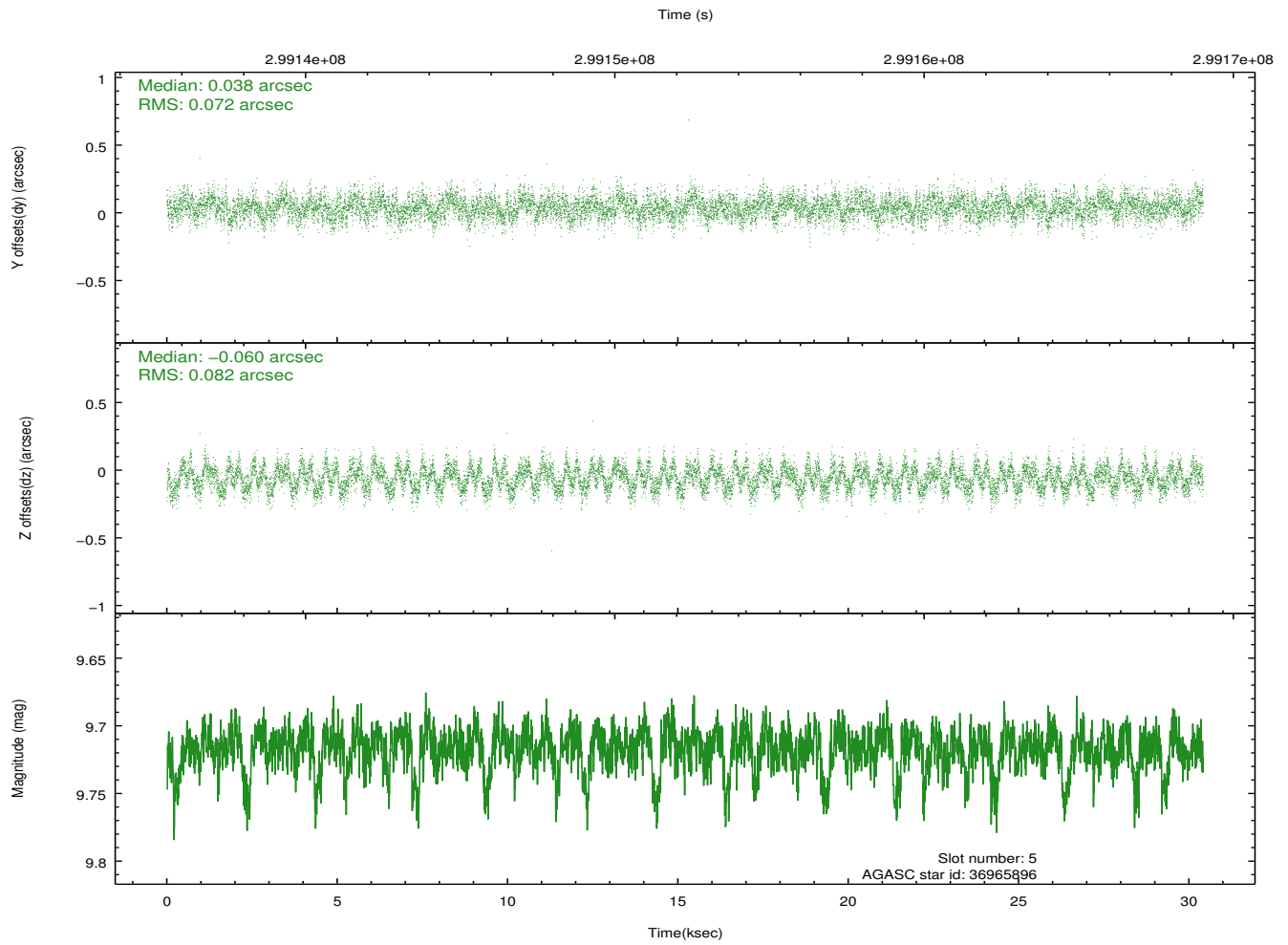
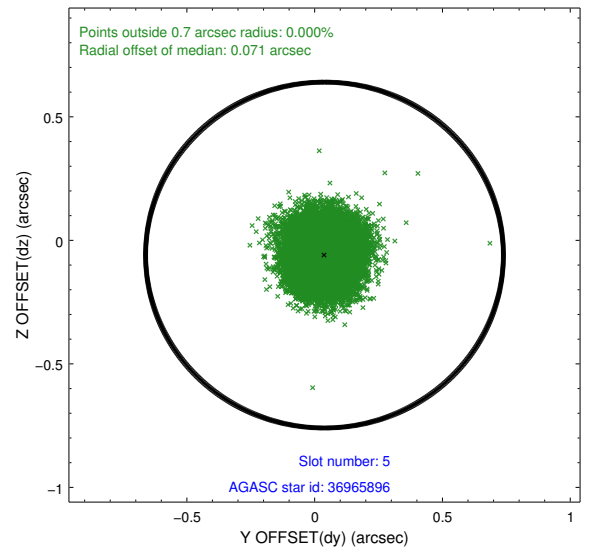
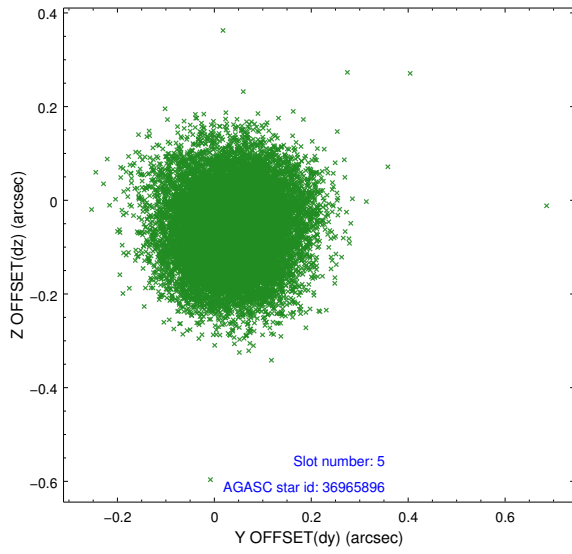
2.4.1 Slot 3



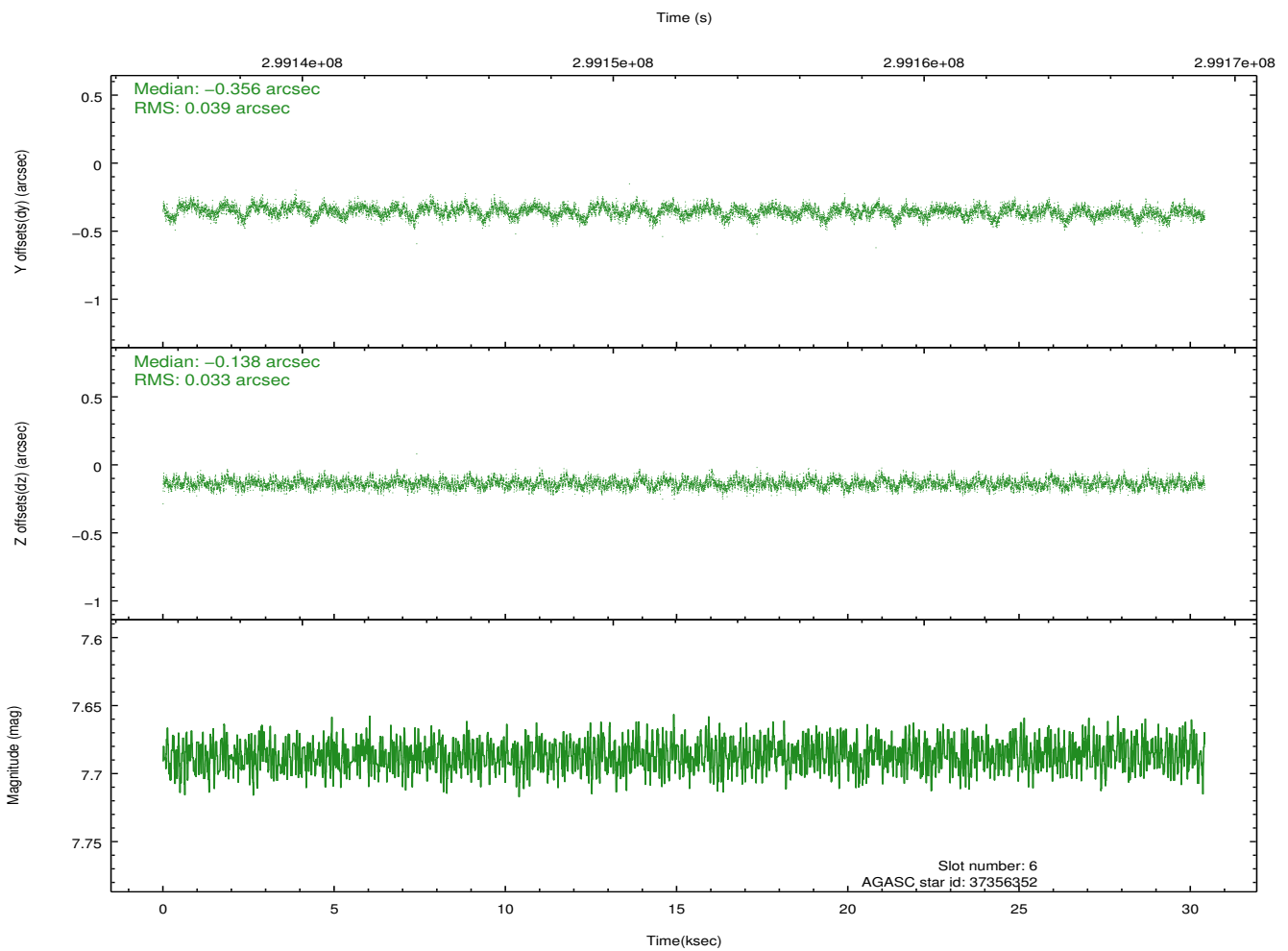
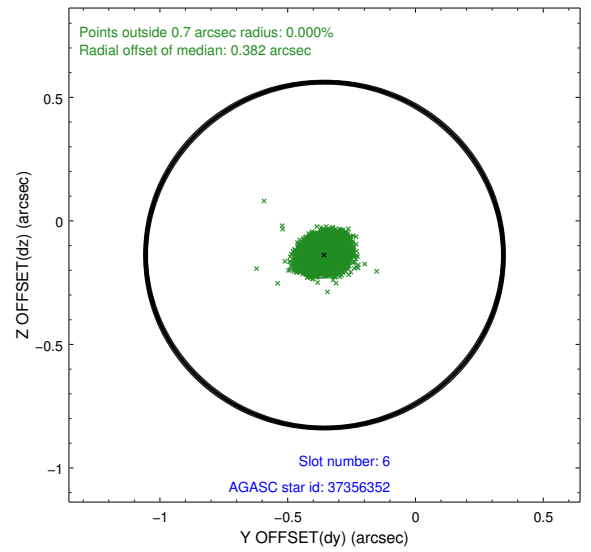
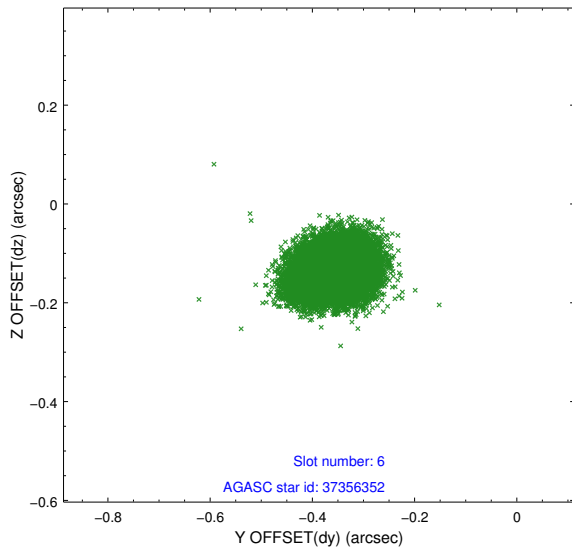
2.4.2 Slot 4



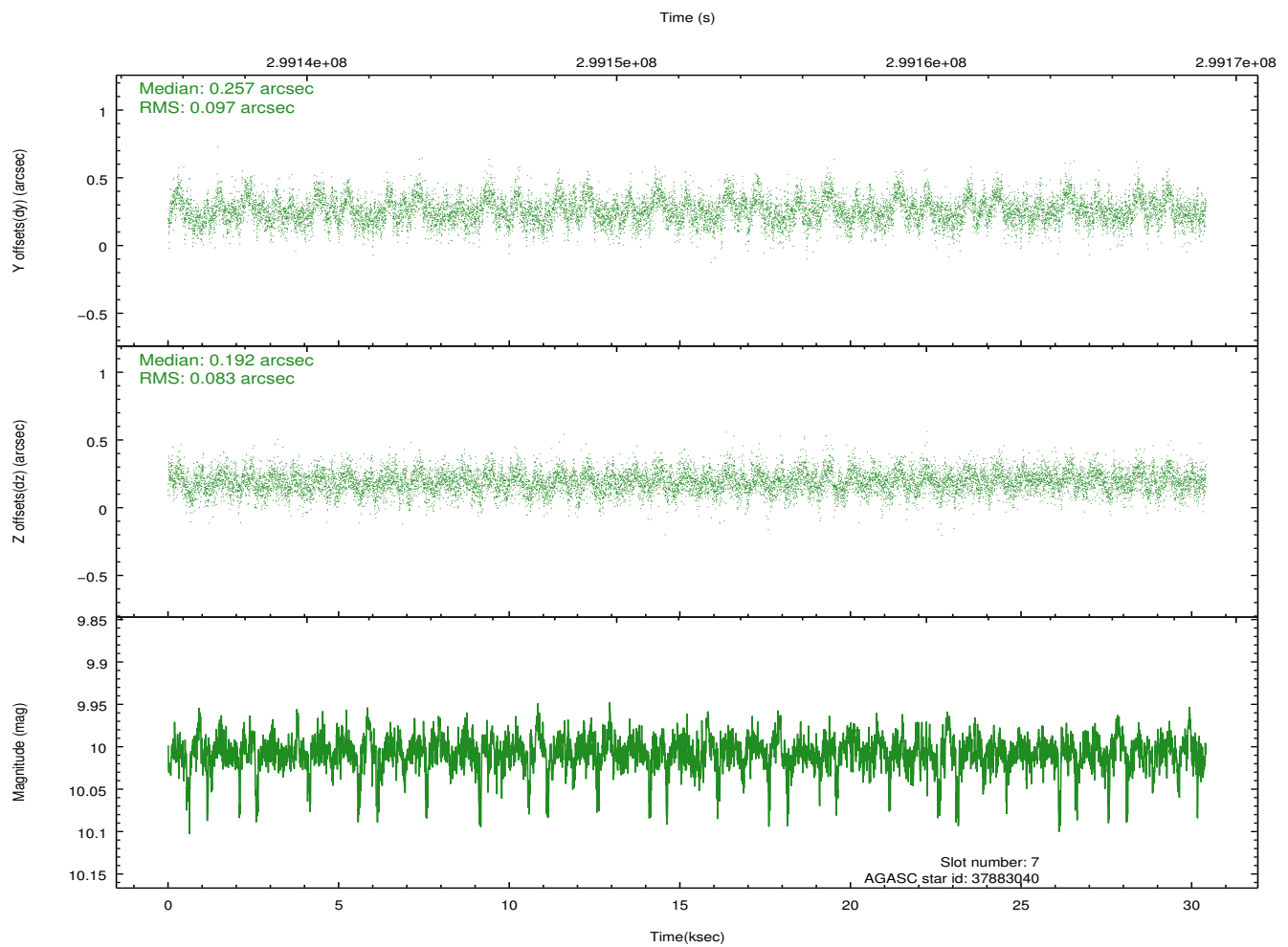
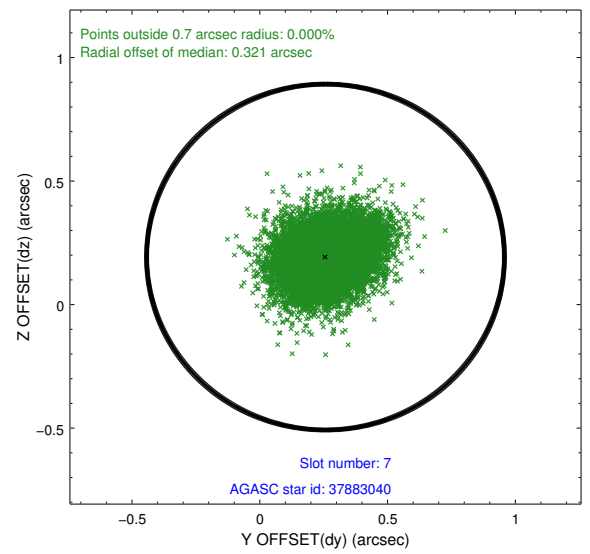
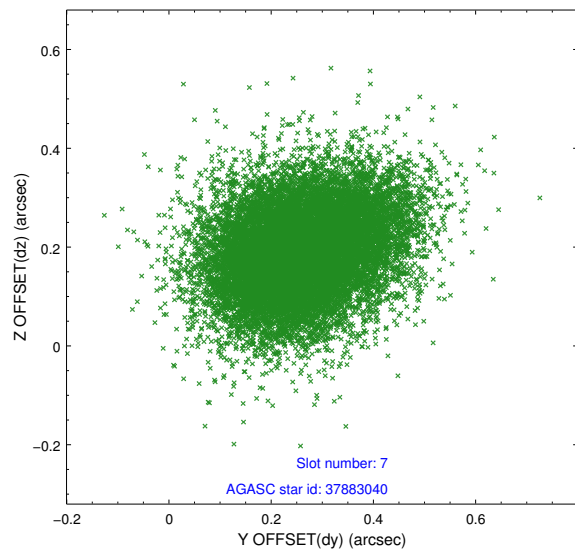
2.4.3 Slot 5



2.4.4 Slot 6

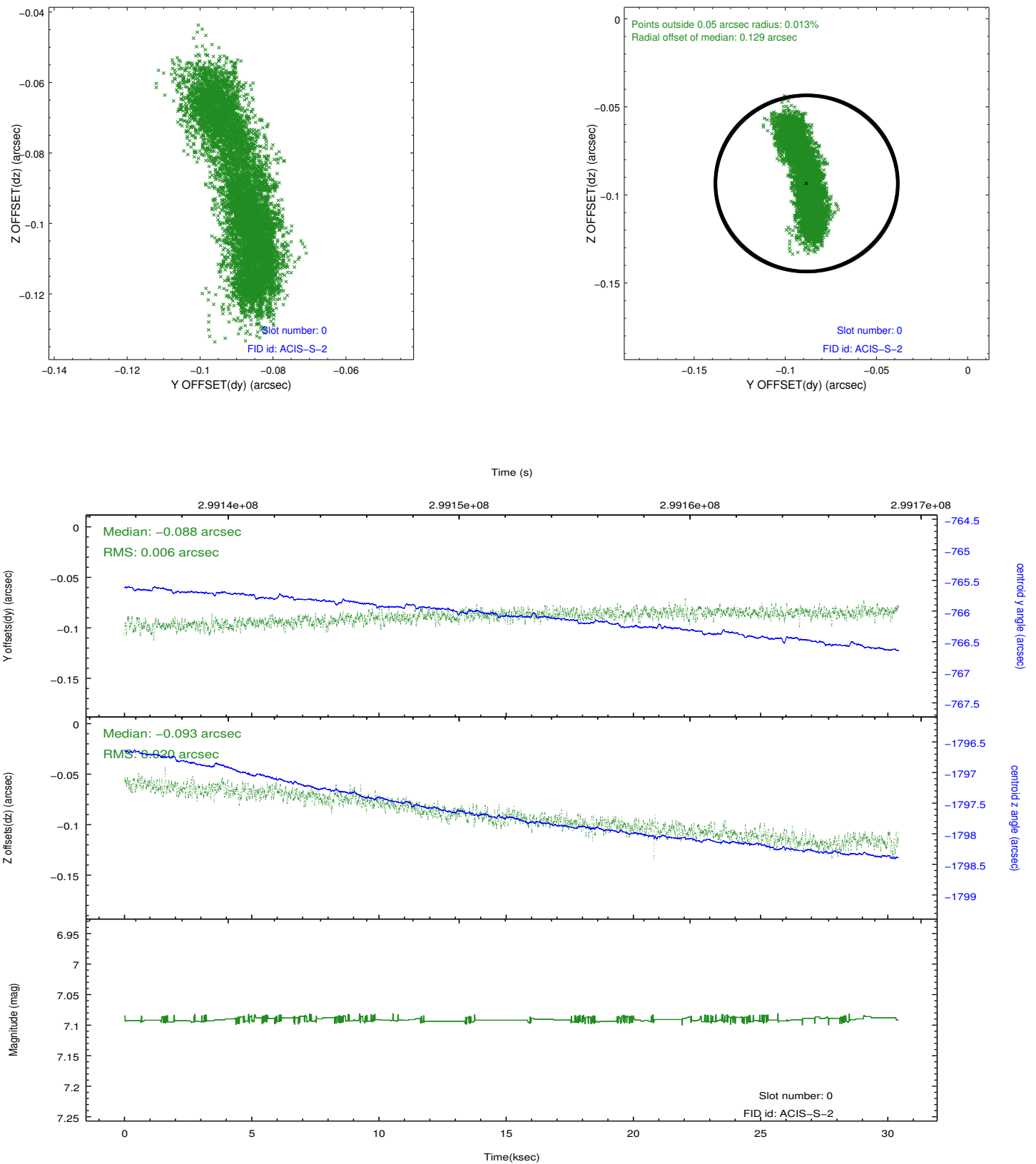


2.4.5 Slot 7

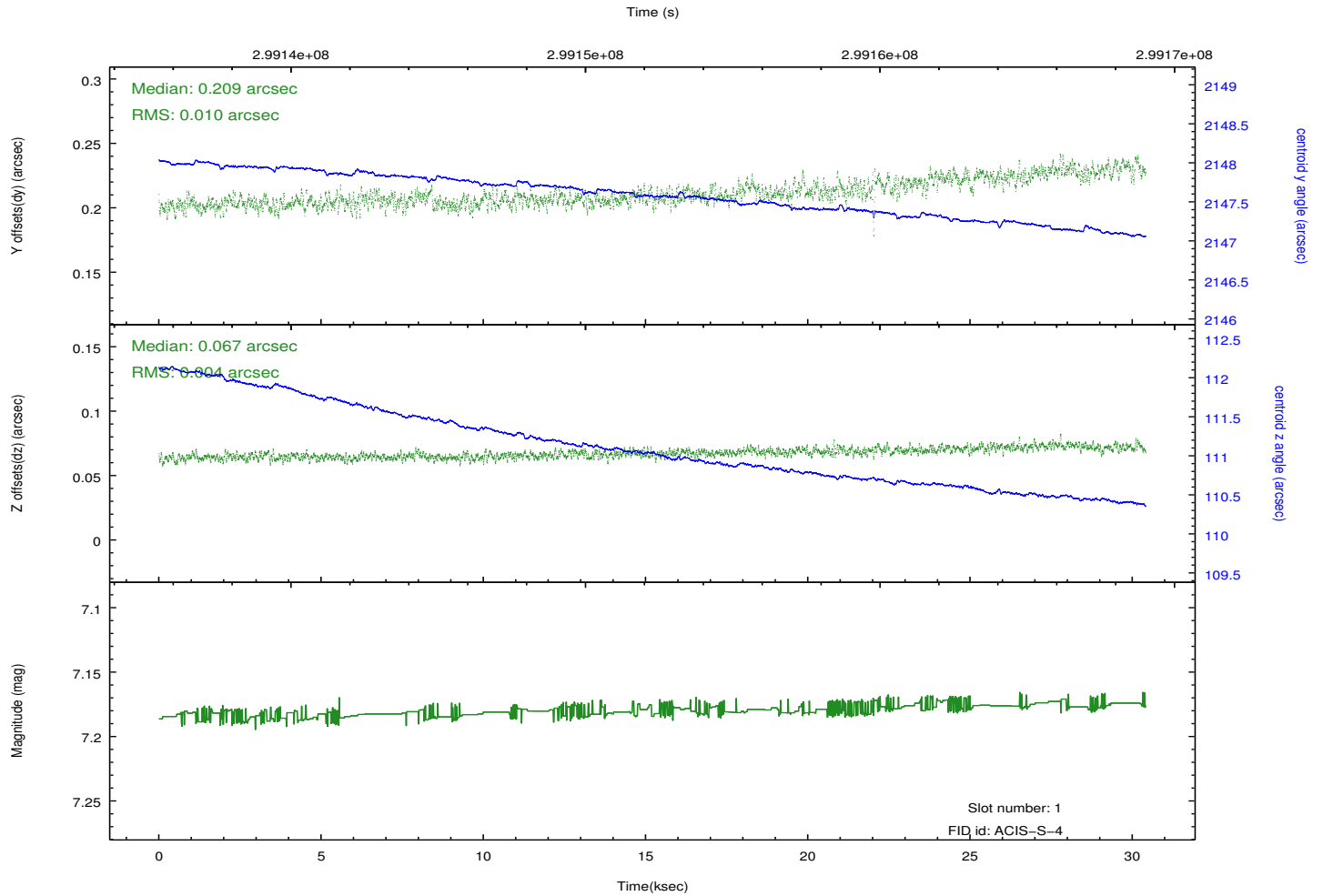
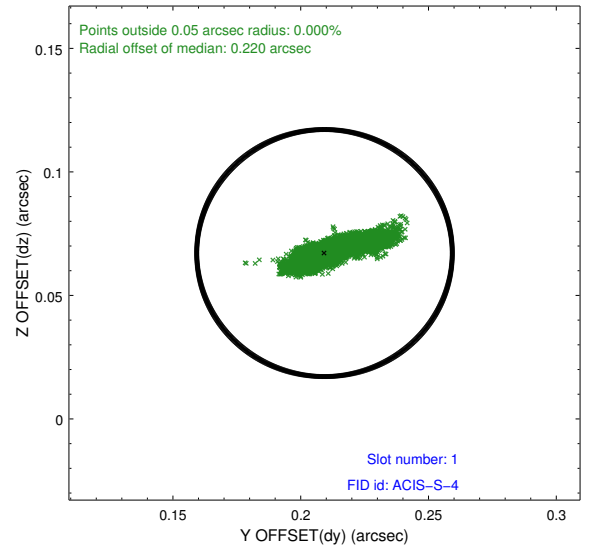
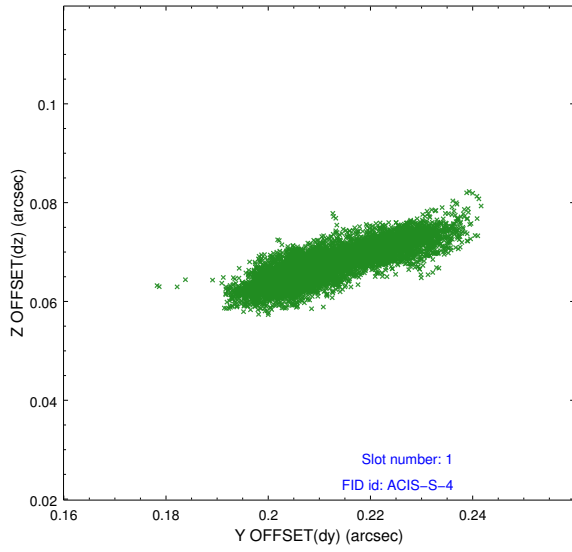


2.5 FID Slots

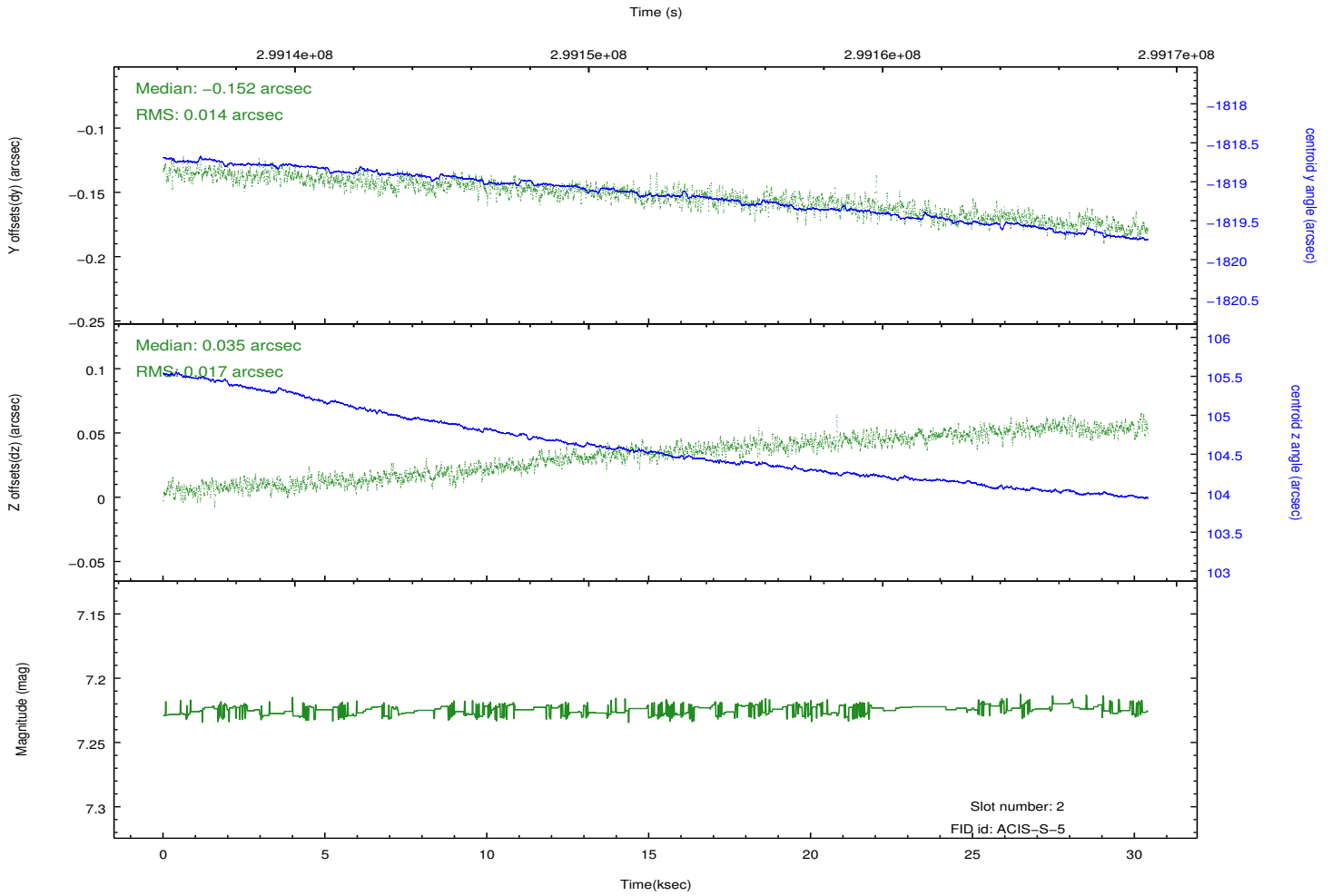
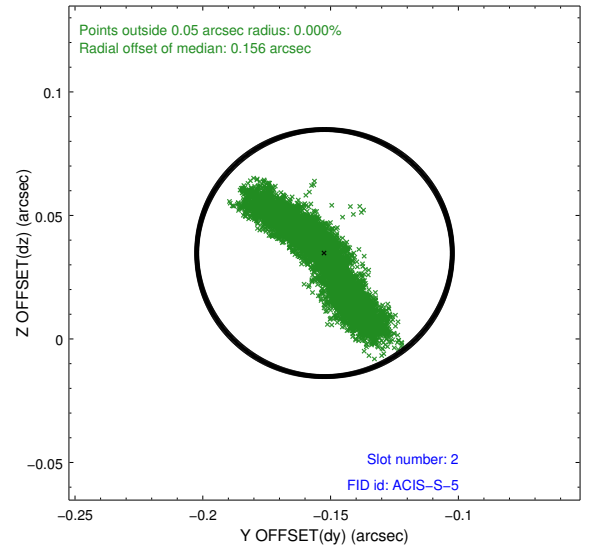
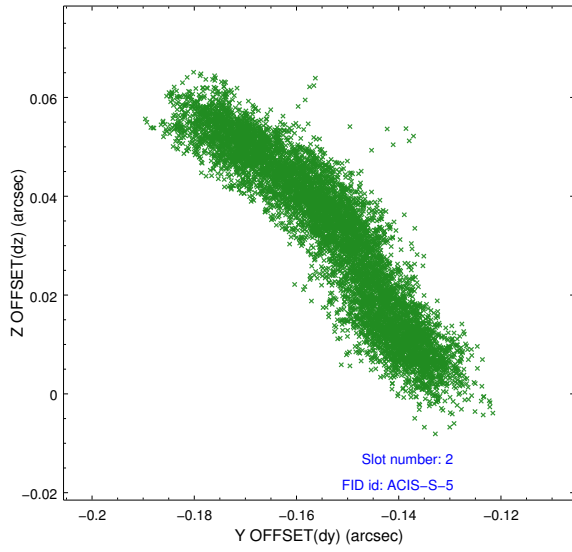
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

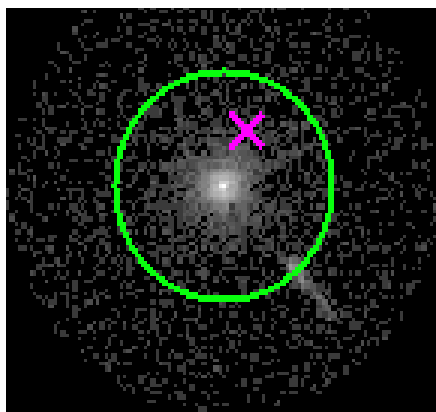


3 Gratings

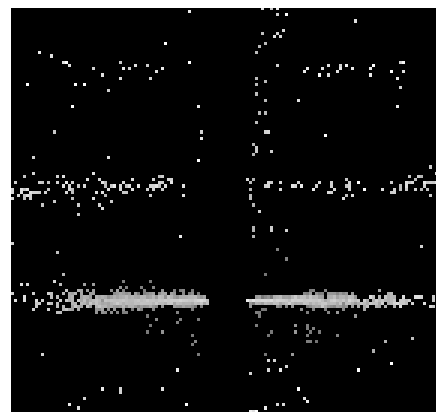
3.1 HEG Arm



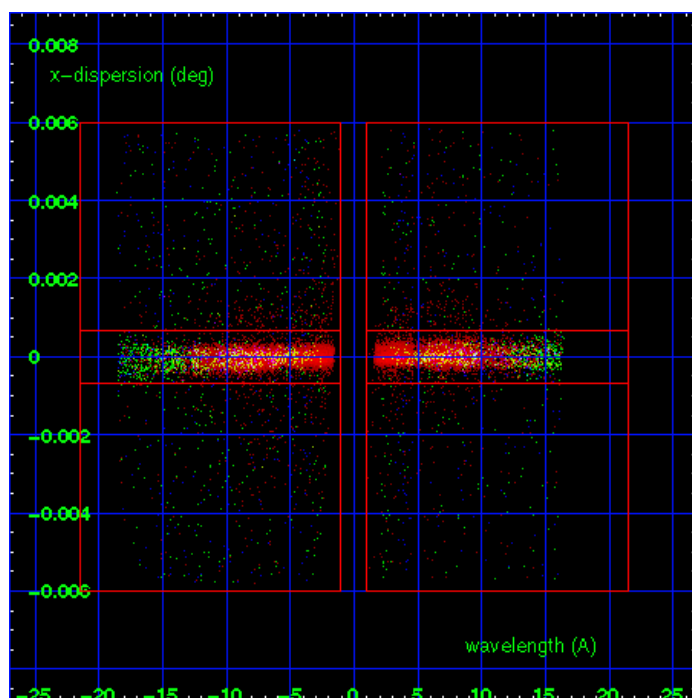
HEG Order Sort 123



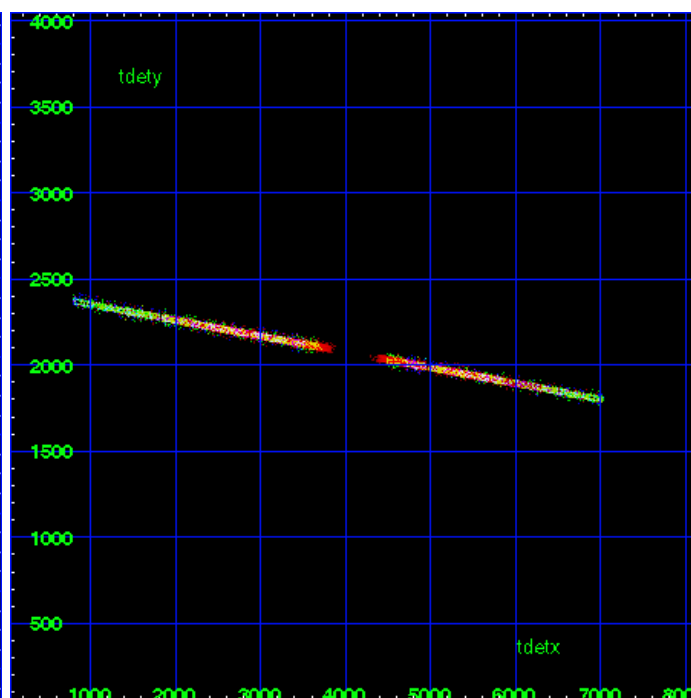
HEG Zero Order



HEG Order Sort ALL

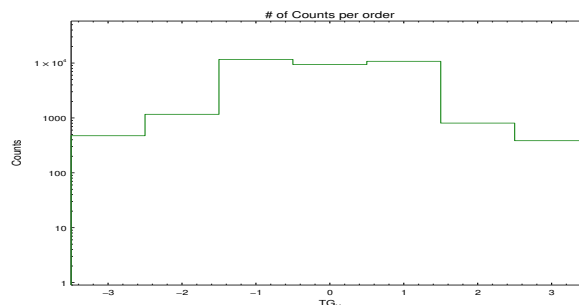


Spot Image HEG

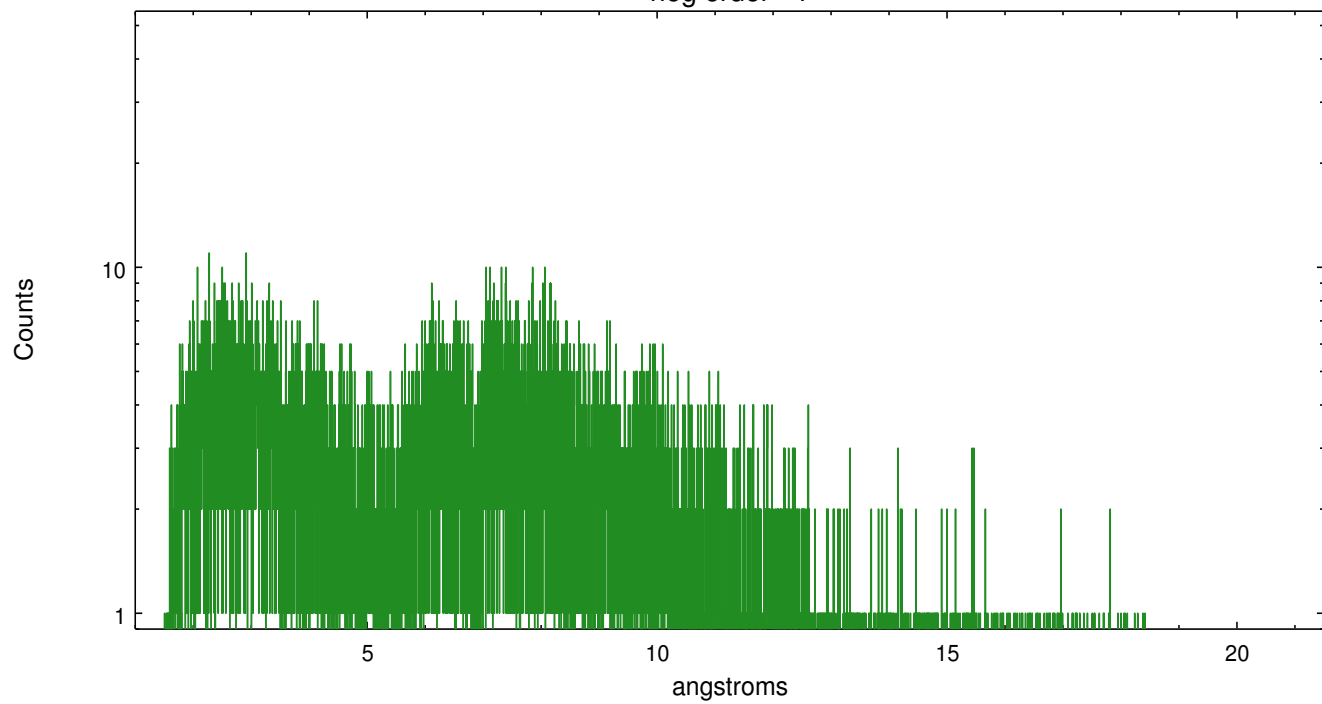


Full Detector HEG

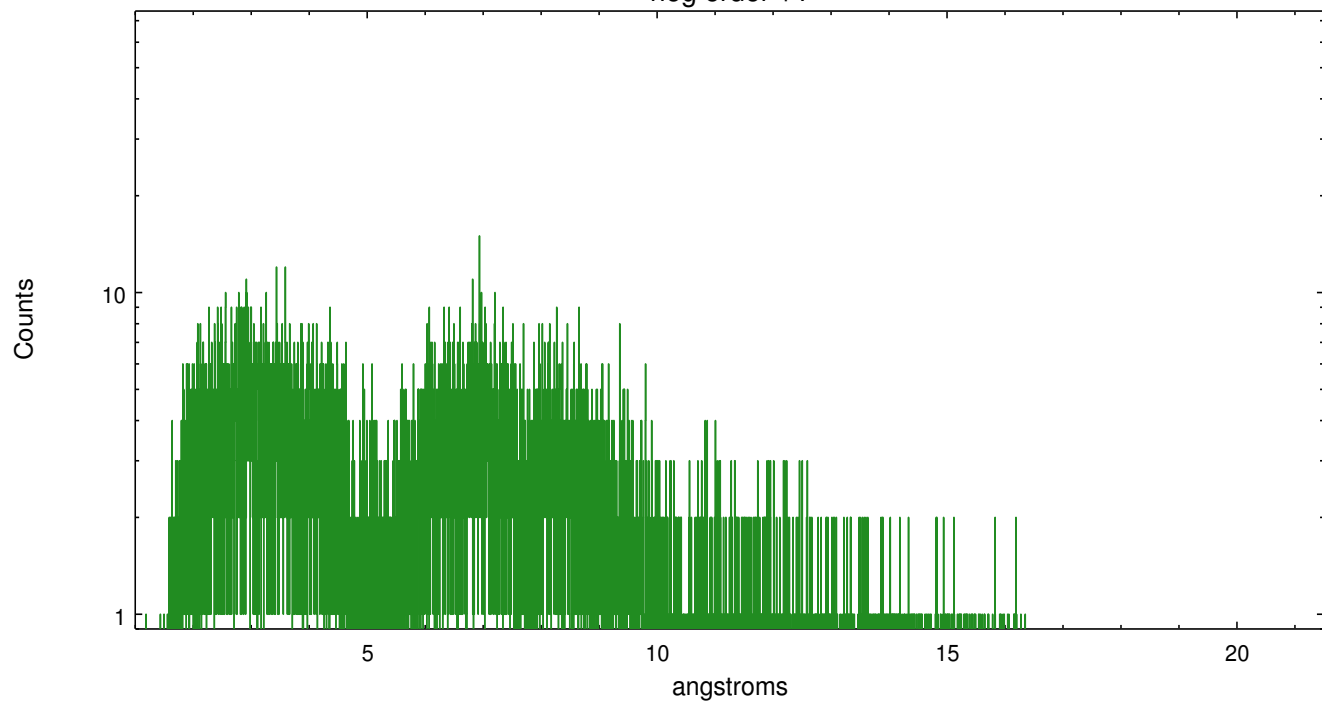
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	474	1163	11661	9394	10753	805	385



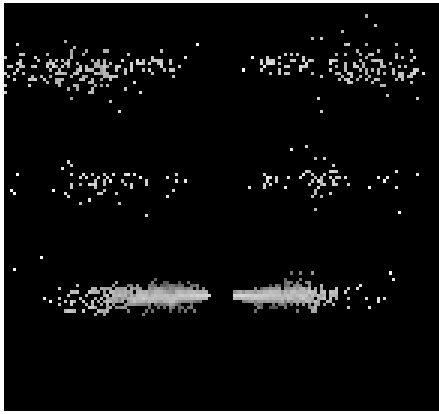
heg order -1



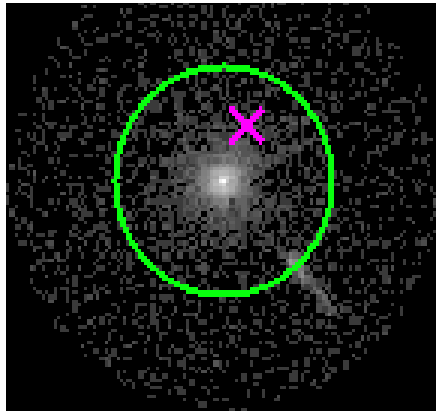
heg order +1



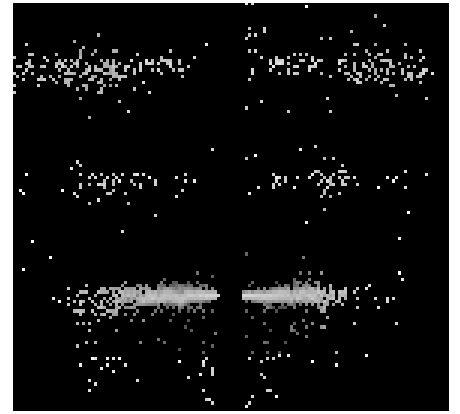
3.2 MEG Arm



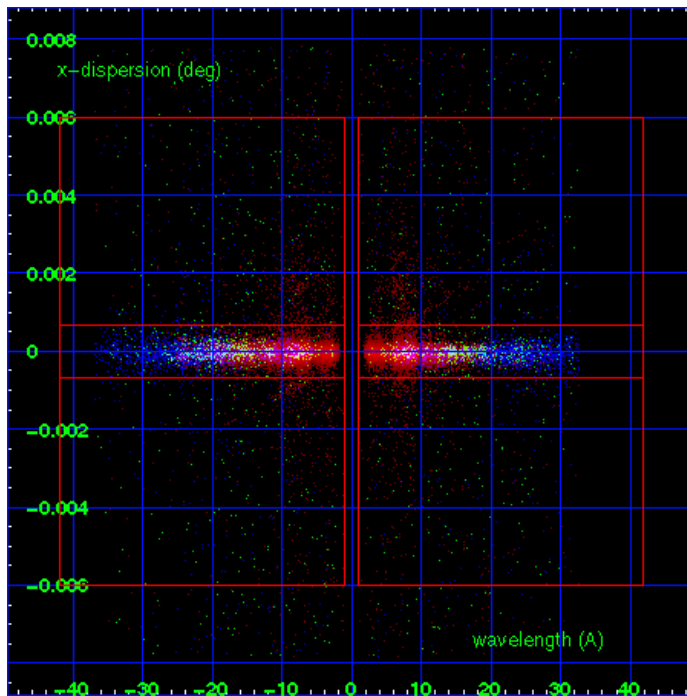
MEG Order Sort 123



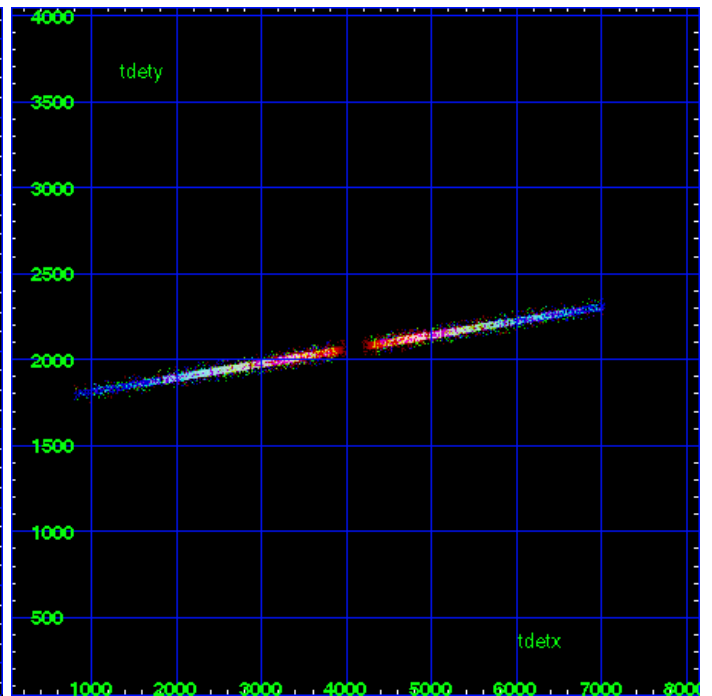
MEG Zero Order



MEG Order Sort ALL

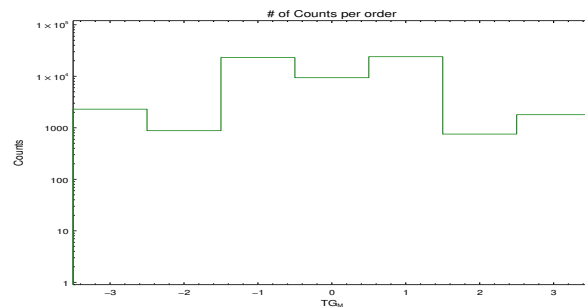


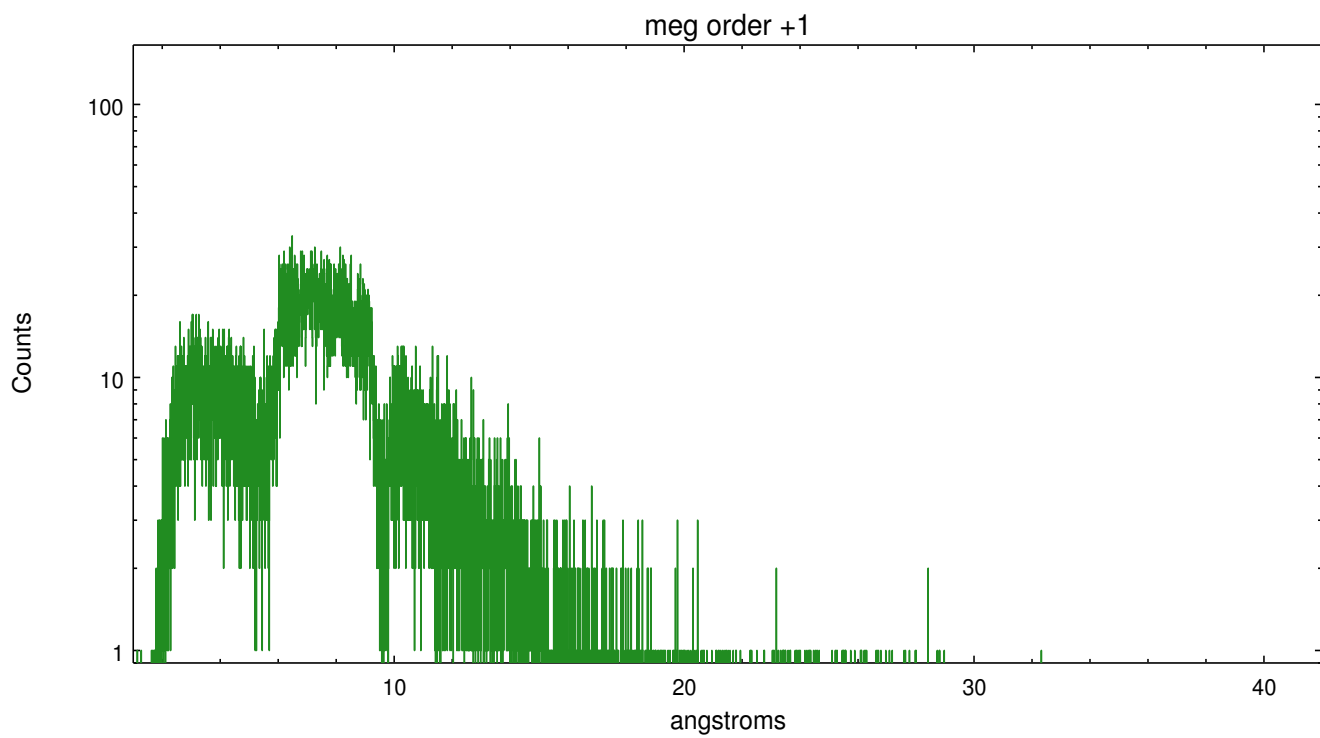
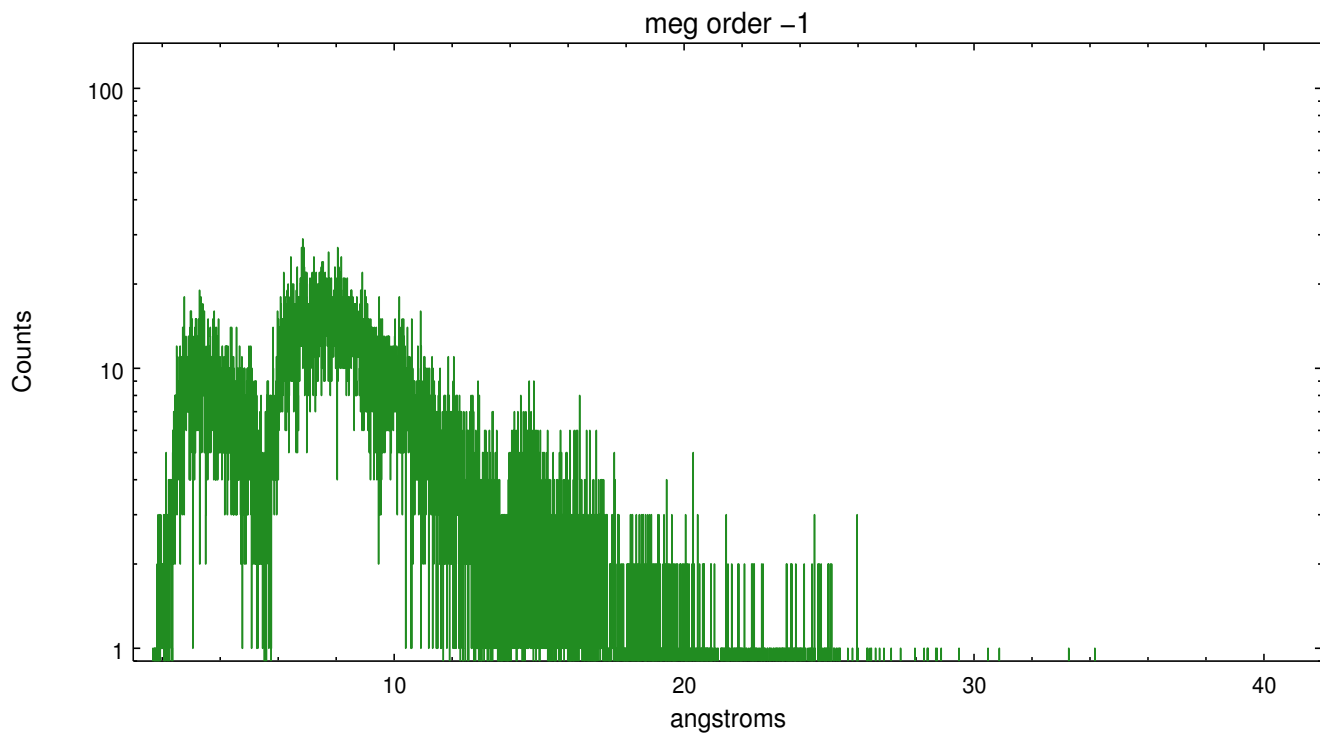
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2298	880	23063	9394	24011	755	1797





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.04

A.2 Comments