

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18857 - L2 Version 1
Chandra X-Ray Center

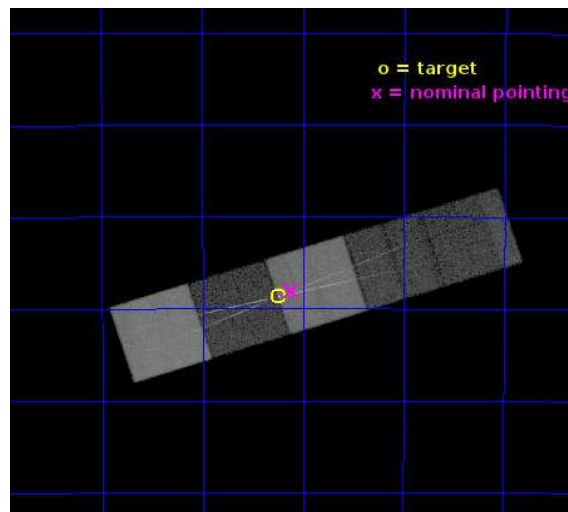
L2 Processing Date : May 25 2016

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1 Front

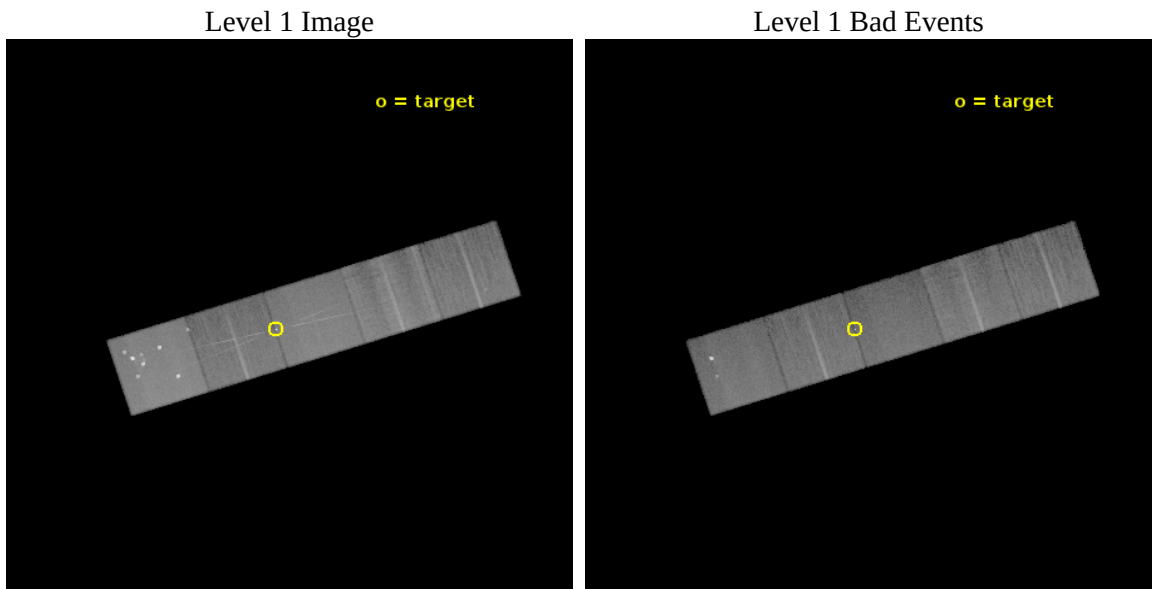
seq_num	300340	Sequence number
obs_id	18857	Observation id
title	Photoionized Features and the Soft Component in Intermediate Polars	
observer	Dr Koji Mukai	Principal investigator
object	NY Lupi	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.060417	Observer's specified target RA [deg]
dec_targ	-45.4775	Observer's specified target Dec [deg]
ra_nom	237.02897388225	Nominal RA [deg]
dec_nom	-45.467688291908	Nominal Dec [deg]
roll_nom	342.13421342774	Nominal Roll [deg]
revision	1	Processing version of data
ontime	32782.432764053	Sum of GTIs [s]
livetime	32354.106145915	Livetime [s]
ontime5	32782.39172411	Sum of GTIs [s]
ontime6	32779.209683895	Sum of GTIs [s]
ontime7	32782.432764053	Sum of GTIs [s]
ontime8	32782.309644103	Sum of GTIs [s]
ontime9	32782.26860404	Sum of GTIs [s]
l2events	347934	Number of level 2 events



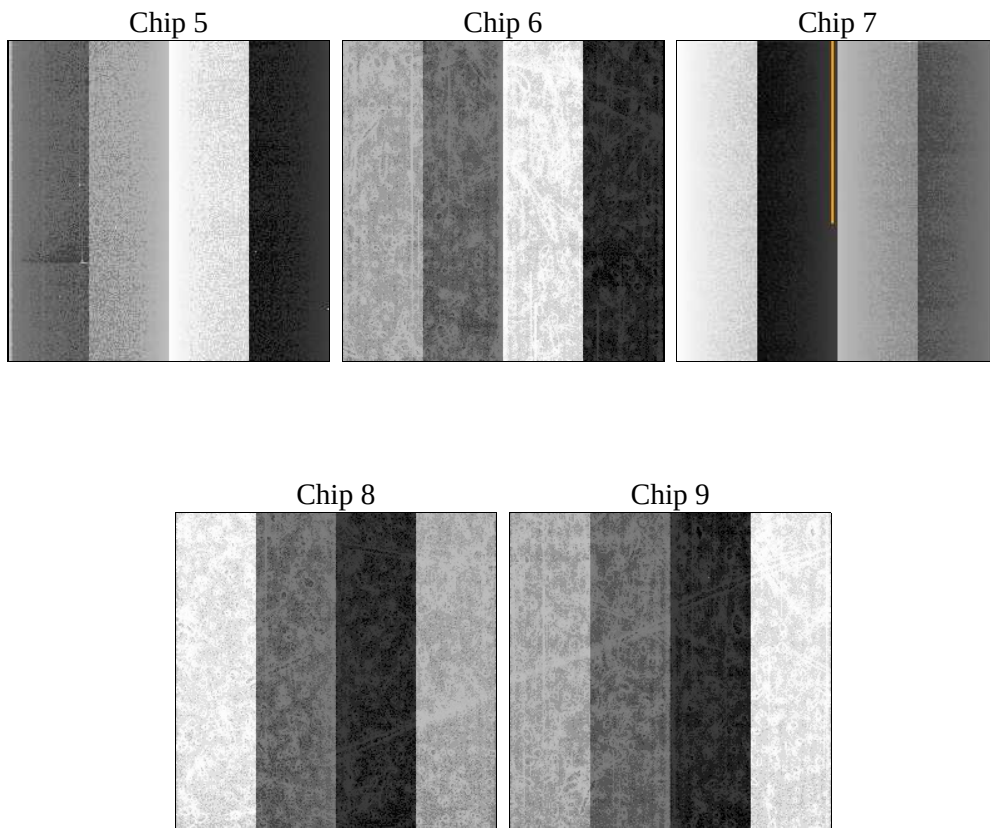
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32722.787000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	32782.432764053	Sum of GTIs [s]
caldsver	4.7.1	 	ontime5	32782.39172411	Sum of GTIs [s]
date	2016-05-25T19:04:48	Date and time of file creation	ontime6	32779.209683895	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	32782.432764053	Sum of GTIs [s]
			ontime8	32782.309644103	Sum of GTIs [s]
			ontime9	32782.26860404	Sum of GTIs [s]
			l1events	1362781	Number of level 1 events
			tgmethod	TGDETECT	Method used to create src1a file
			zo_pos	(3933.14, 4023.22)	src1a sky pixel position

2.1.4 Events

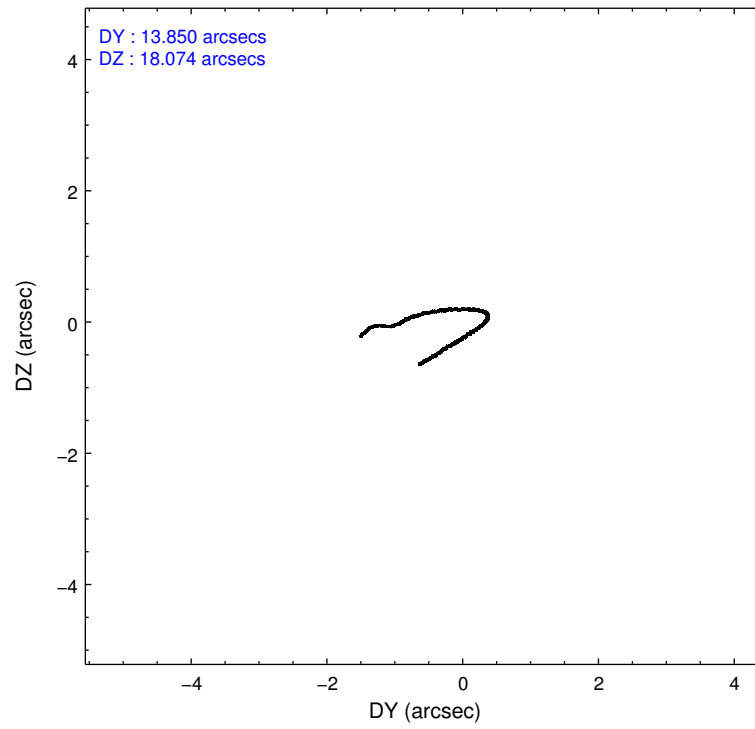
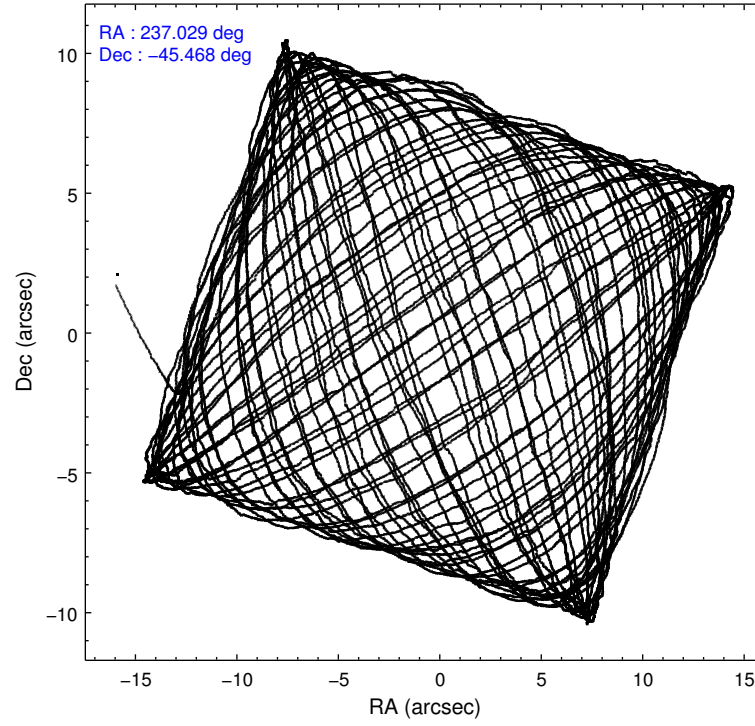
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	377557	216085	283978	276969	208192
rejected events	183510	187058	156594	204828	182307
rejected %	48%	86%	55%	73%	87%

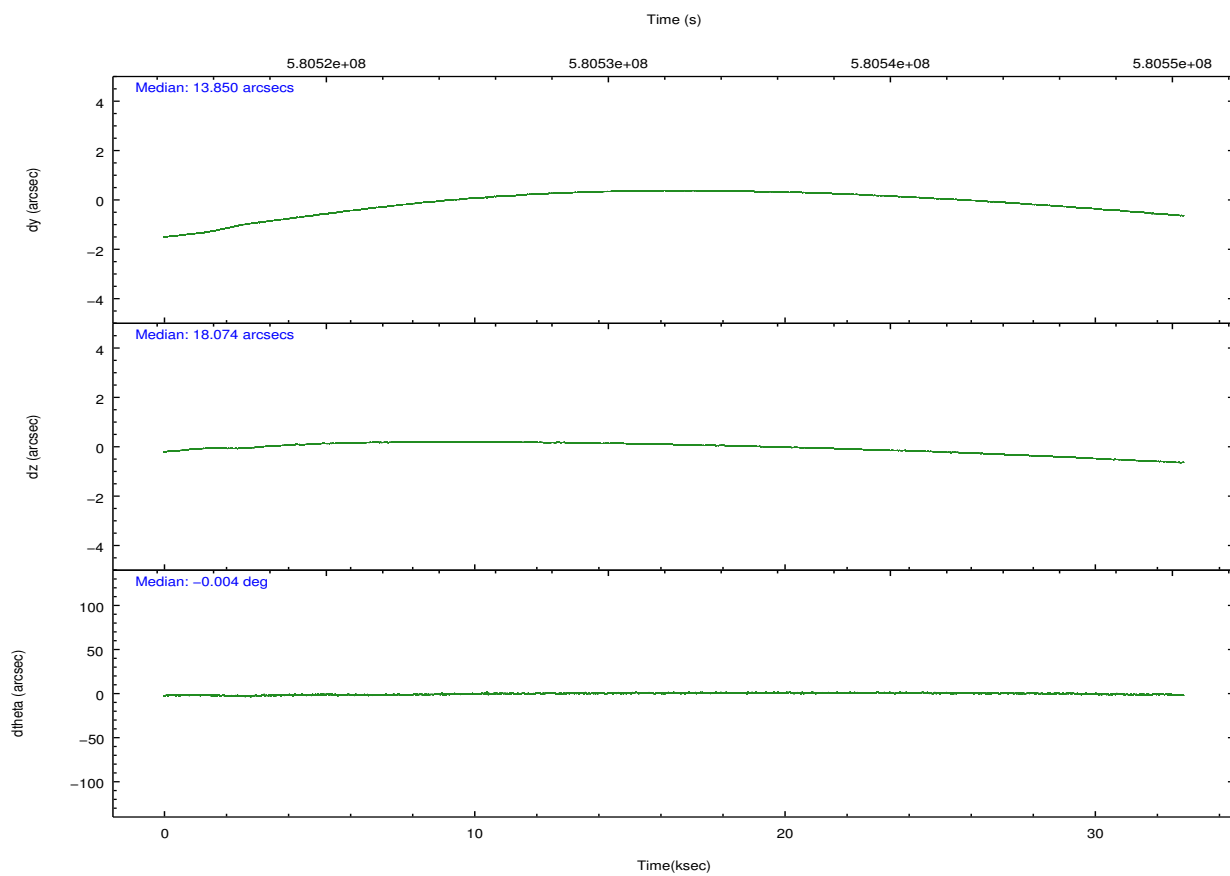
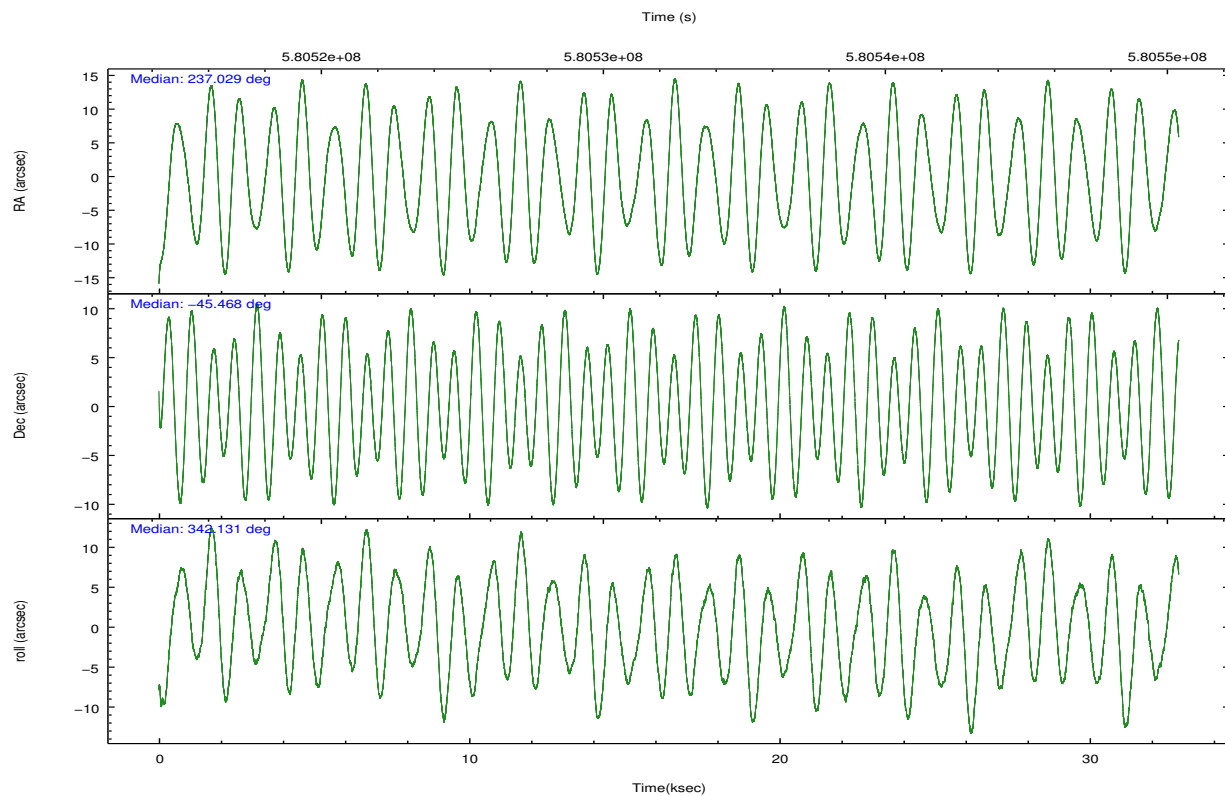
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	39511	11237	11735	20568	9295
	10%	5%	4%	7%	4%
grade 1 events	658	121	488	213	136
	0%	0%	0%	0%	0%
grade 2 events	55822	6384	27095	17784	5689
	14%	2%	9%	6%	2%
grade 3 events	5867	2660	10564	7430	2675
	1%	1%	3%	2%	1%
grade 4 events	5195	2614	10396	6889	2538
	1%	1%	3%	2%	1%
grade 5 events	23958	10129	27864	15080	11339
	6%	4%	9%	5%	5%
grade 6 events	87681	6135	67605	19476	5692
	23%	2%	23%	7%	2%
grade 7 events	158865	176805	128231	189529	170828
	42%	81%	45%	68%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	236.990814	237.0289738822493	CCD I2 on	N	N
[deg] Pointing Dec	-45.473815	-45.46768829190772	CCD I3 on	N	N
[deg] Pointing Roll	341.950383	342.1342134277442	CCD S0 on	O1	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	580516029.184000	580514722.92673	CCD S5 on	O2	Y
Observation start date	2016-05-24T22:26:01	2016-05-24T22:05:22	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	580548752.184000	580548973.30369	On-chip summing requested	N	N
Observation end date	2016-05-25T07:31:24	2016-05-25T07:36:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



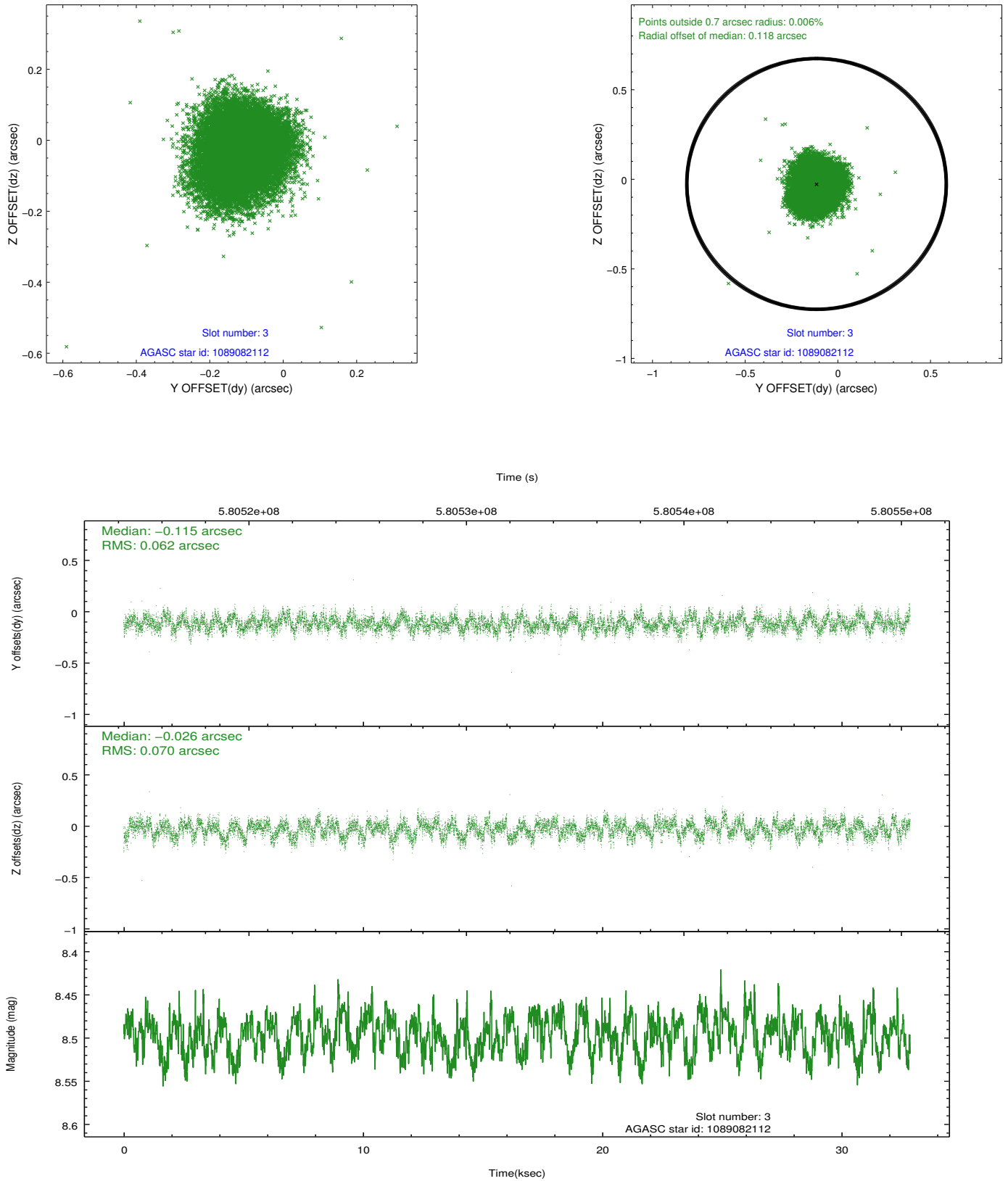


Slot Statistics

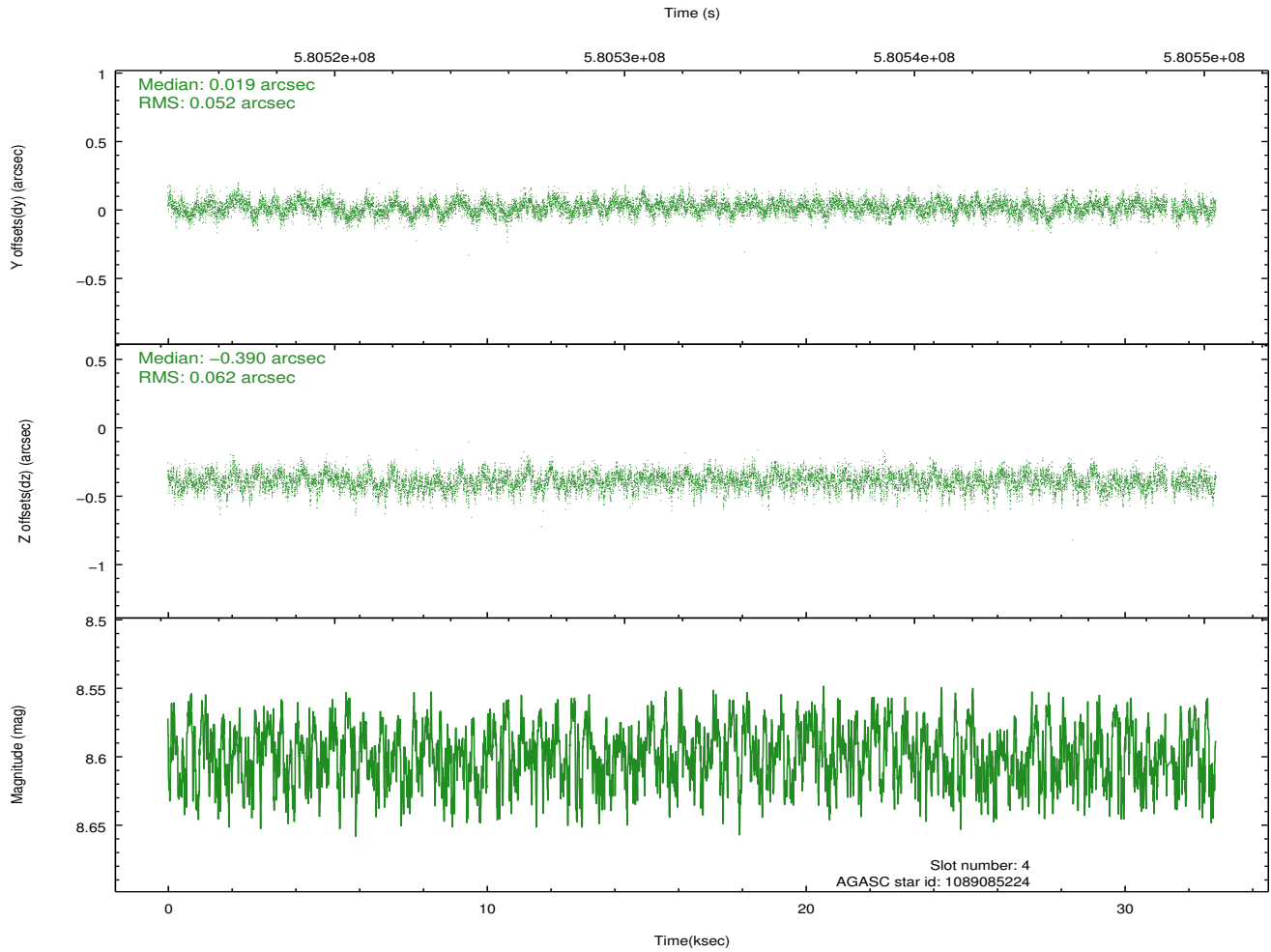
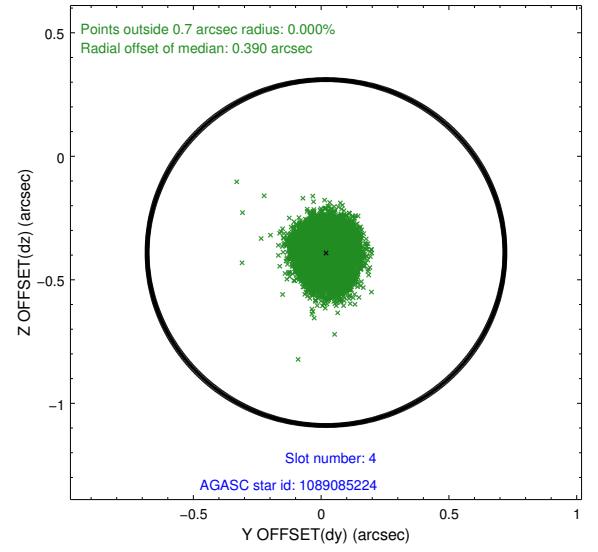
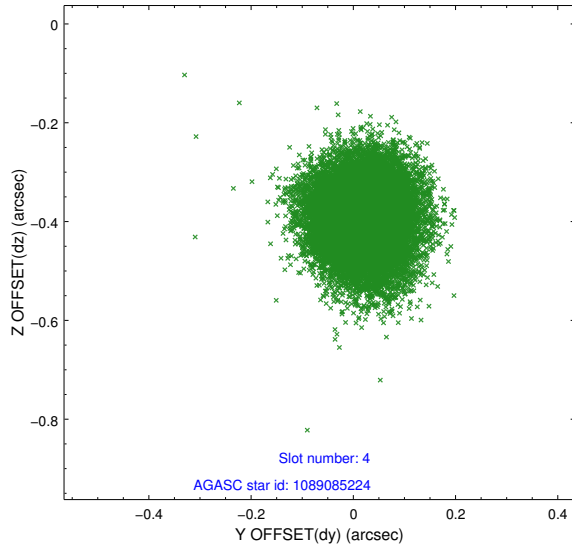
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	8016	-0.144	-0.132	0.017	0.044	0.000000	0.000000	-766.80	-1739.60
1	FID		ACIS-S-4	7.22	8016	0.427	0.105	0.018	0.079	0.000000	0.000000	2147.02	169.04
2	FID		ACIS-S-5	7.23	8016	-0.311	0.036	0.012	0.036	0.000000	0.000000	-1819.73	162.73
3	GUIDE	used	1089082112	8.50	16027	-0.115	-0.026	0.100	0.157	236.546983	-45.100073	-1488.03	926.51
4	GUIDE	used	1089085224	8.60	15957	0.019	-0.390	0.087	0.139	237.980210	-45.089603	1967.32	2079.51
5	GUIDE	used	1089085664	8.24	16027	-0.149	-0.138	0.092	0.148	237.192857	-45.348317	346.56	587.44
6	GUIDE	used	1089085856	8.76	16021	-0.026	0.111	0.114	0.184	237.839757	-45.716096	2302.86	-178.70
7	GUIDE	used	1089086296	8.76	16023	0.264	0.452	0.121	0.194	236.468444	-46.045139	-601.43	-2363.40

2.4 Star Slots

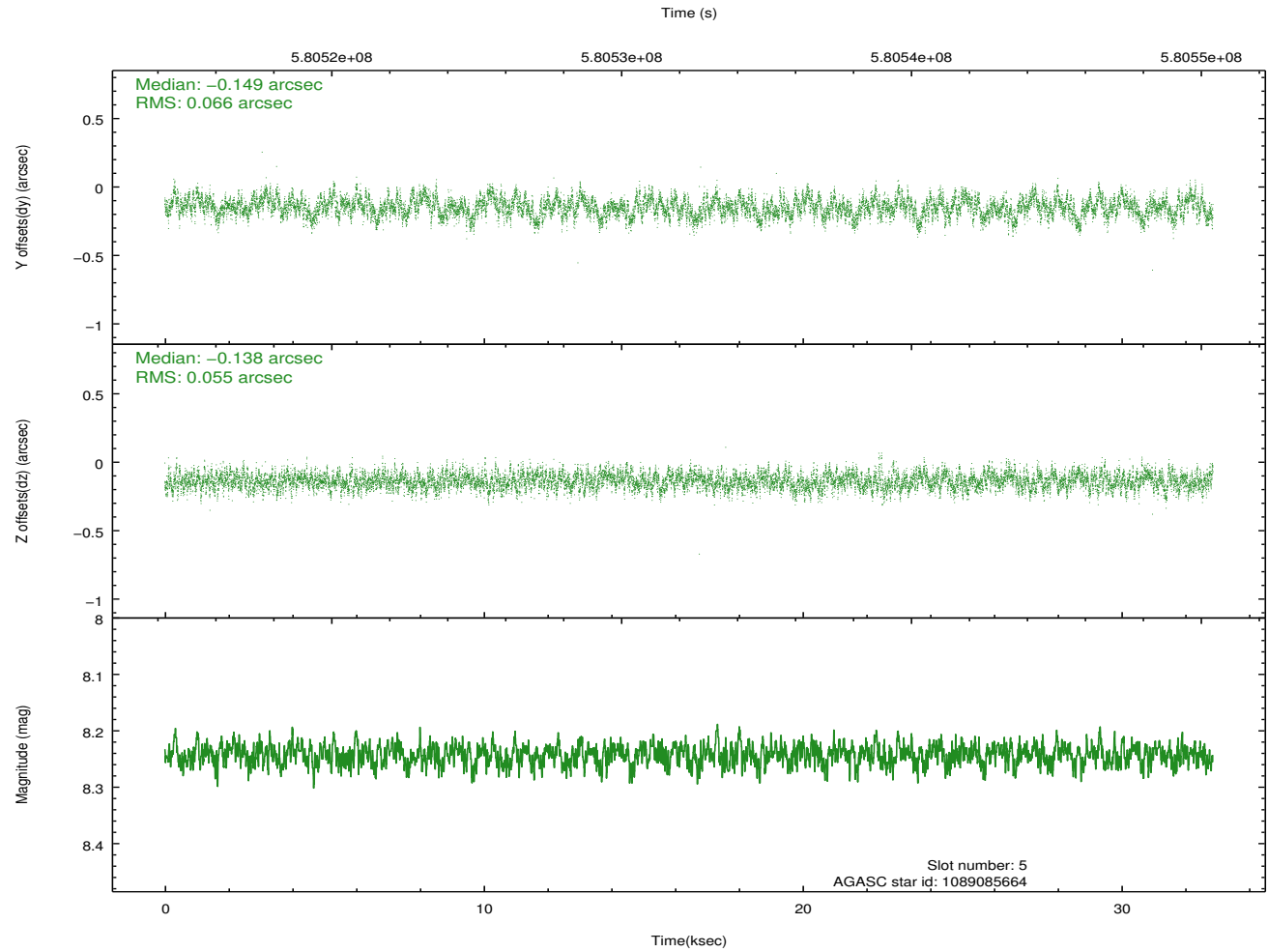
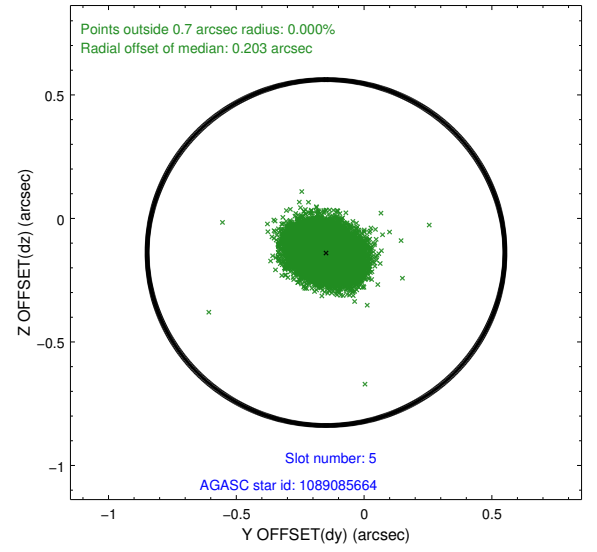
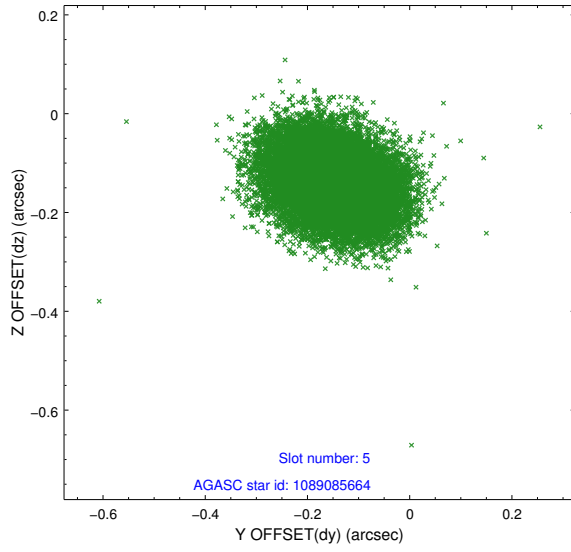
2.4.1 Slot 3



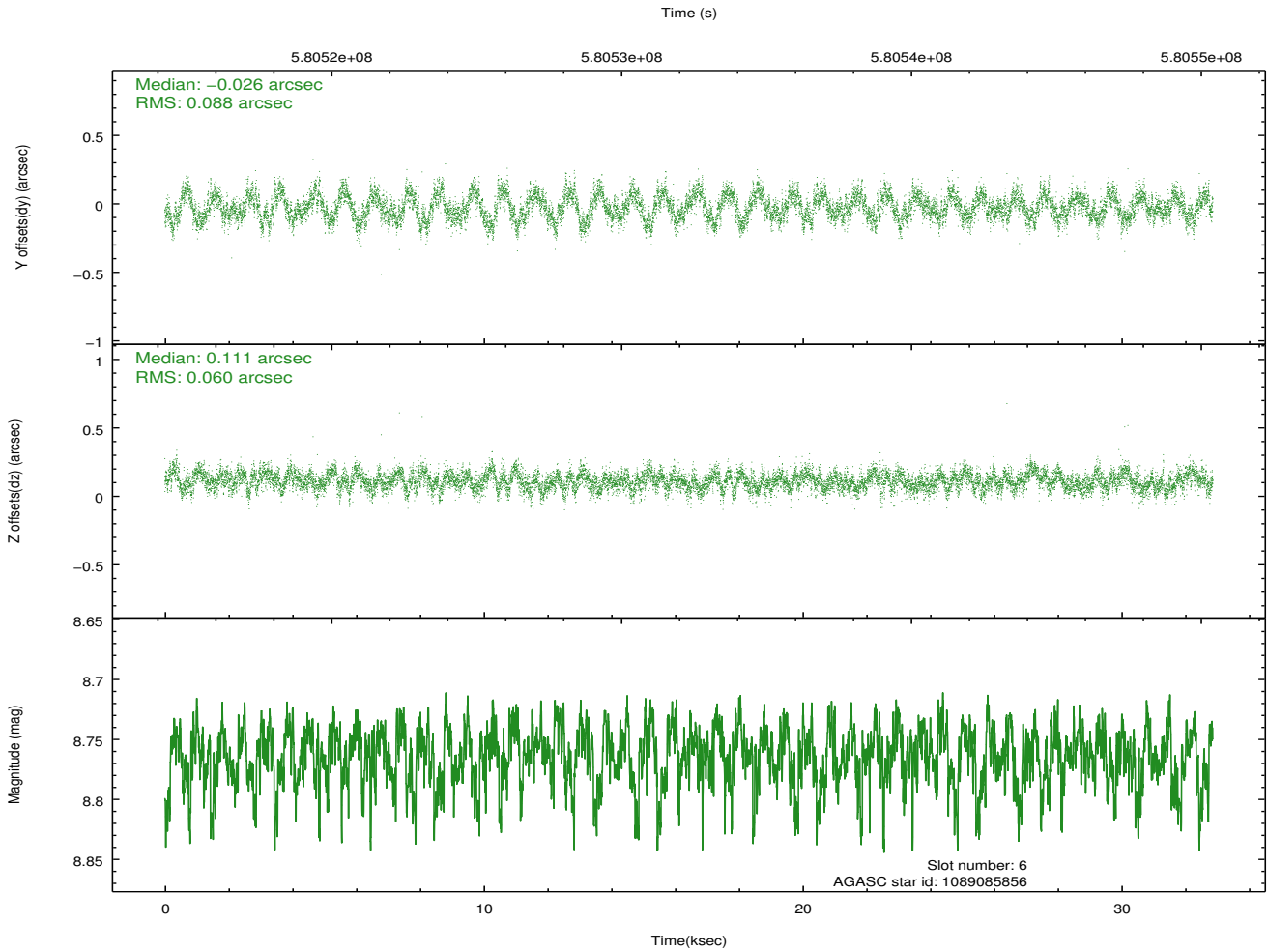
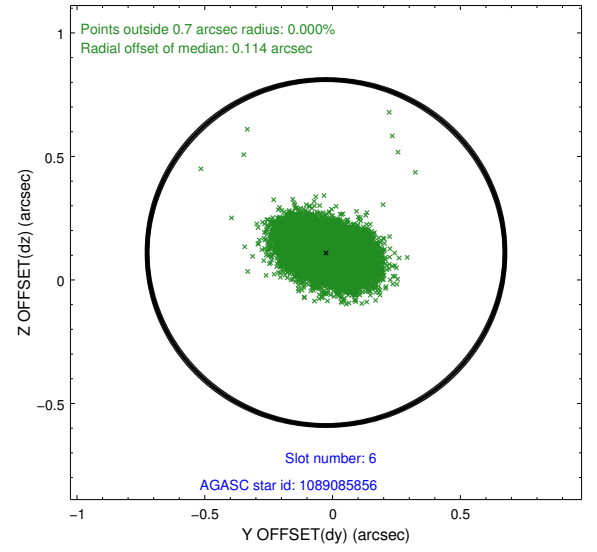
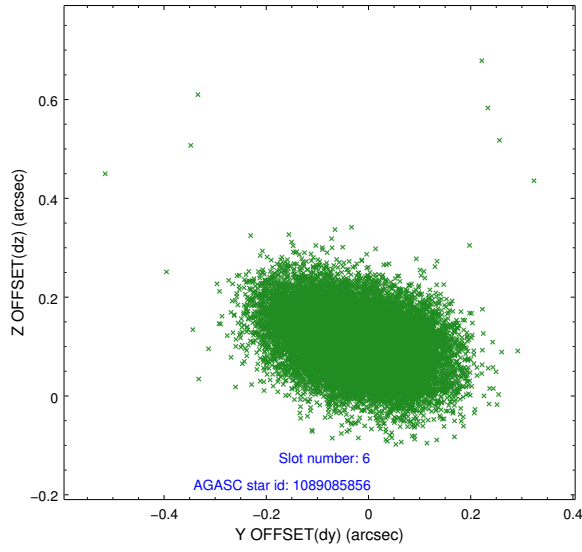
2.4.2 Slot 4



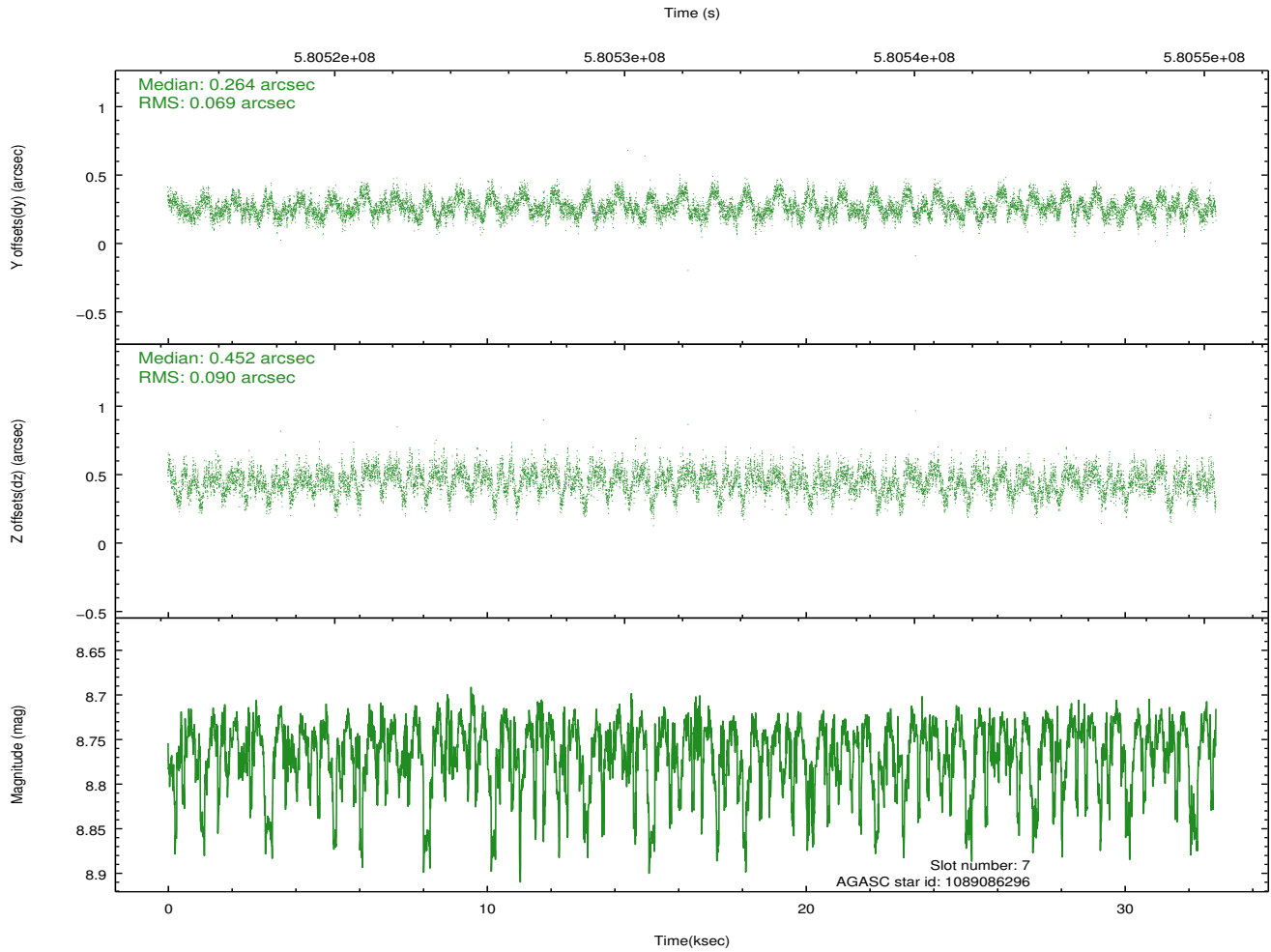
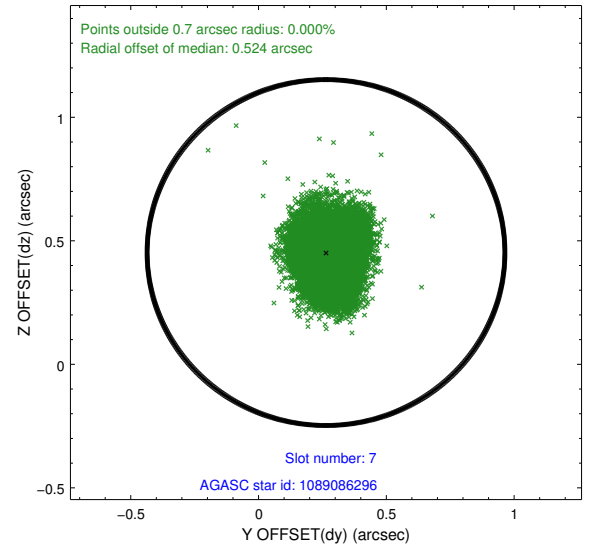
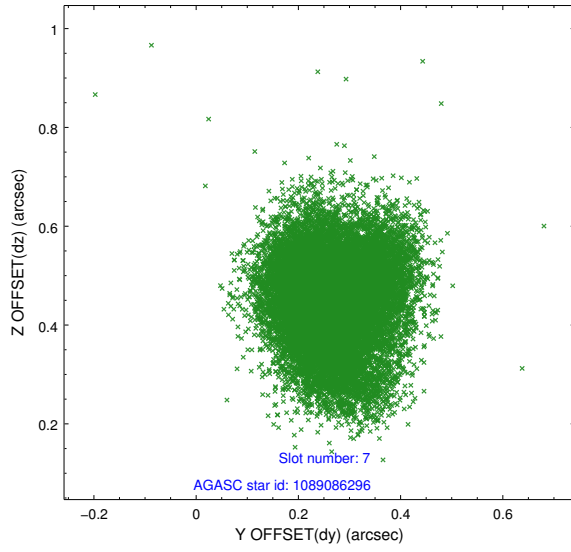
2.4.3 Slot 5



2.4.4 Slot 6

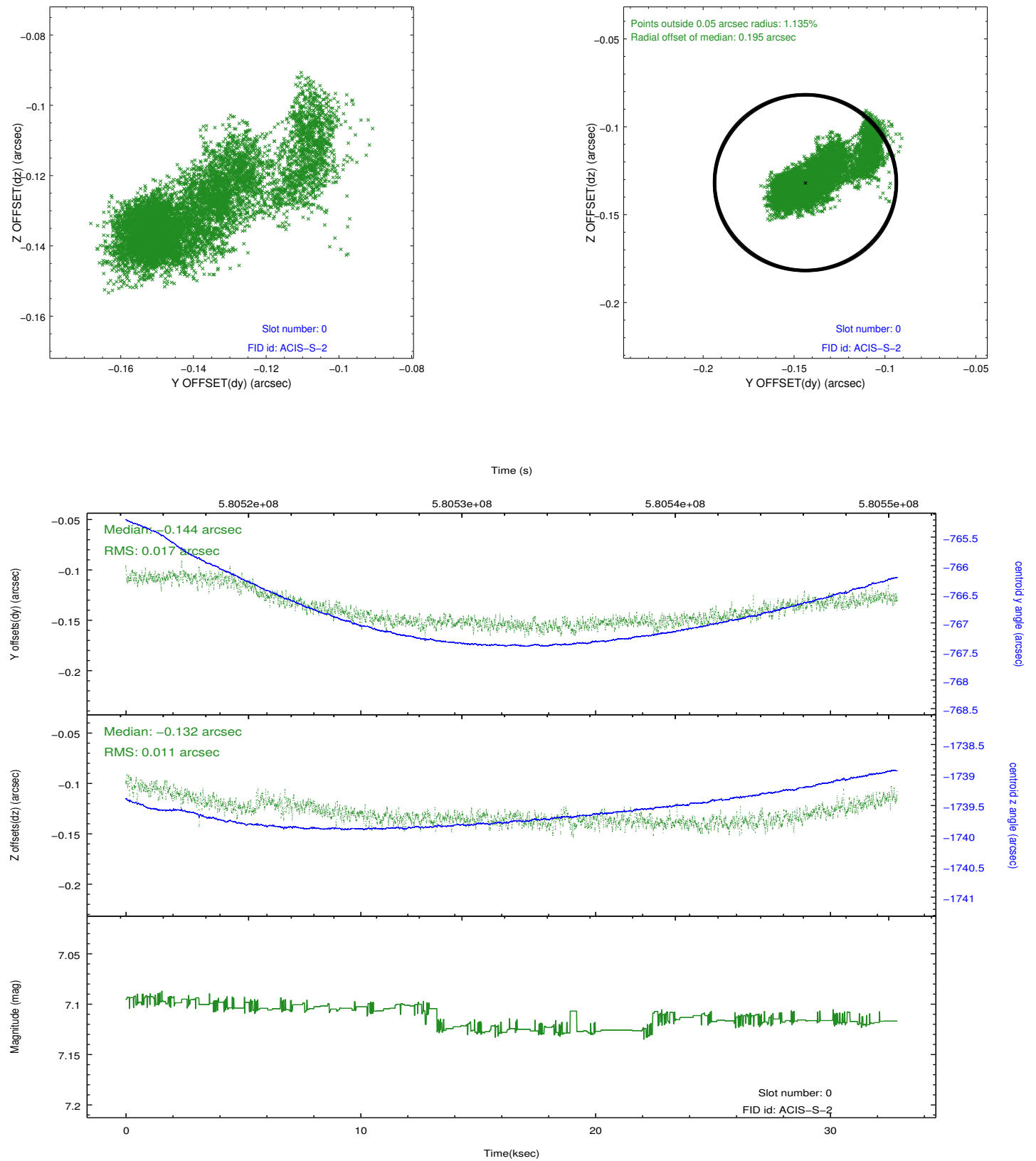


2.4.5 Slot 7

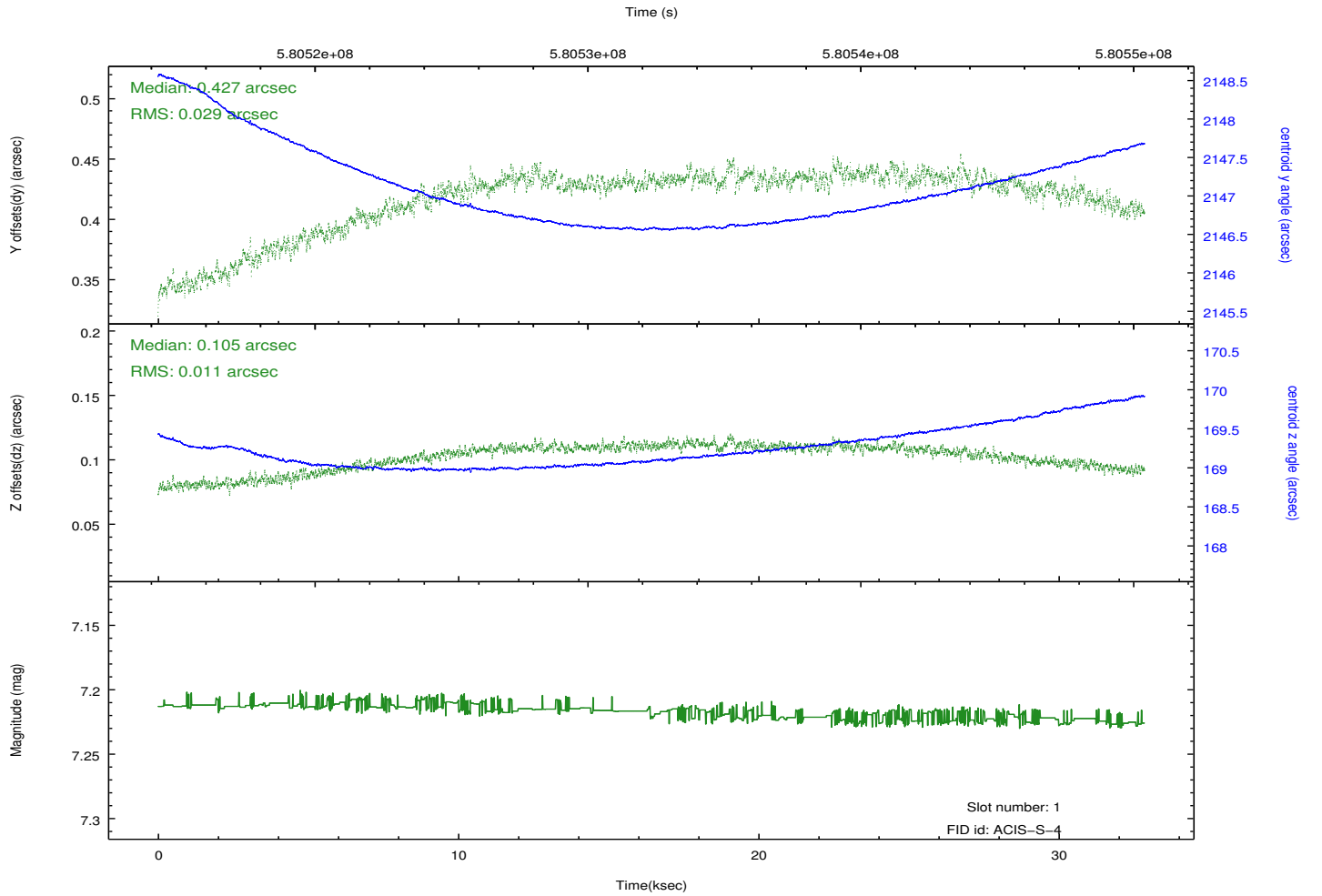
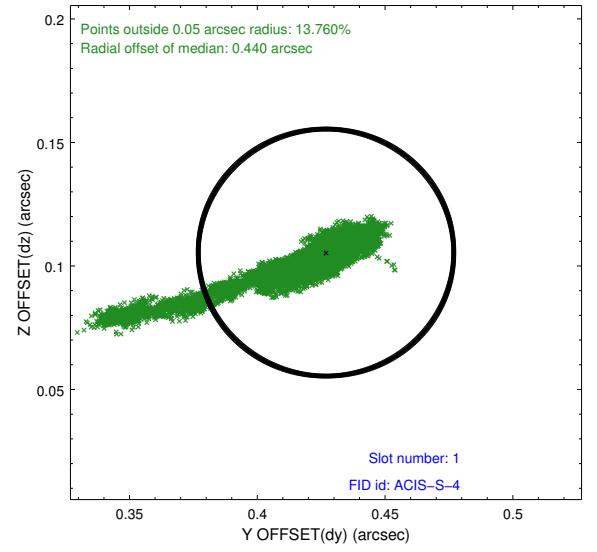
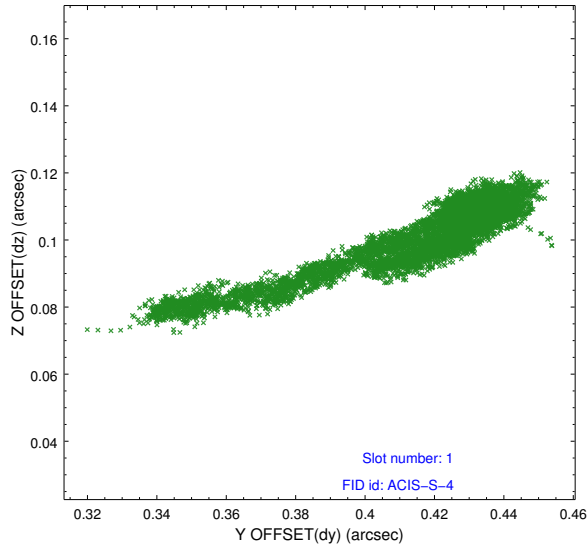


2.5 FID Slots

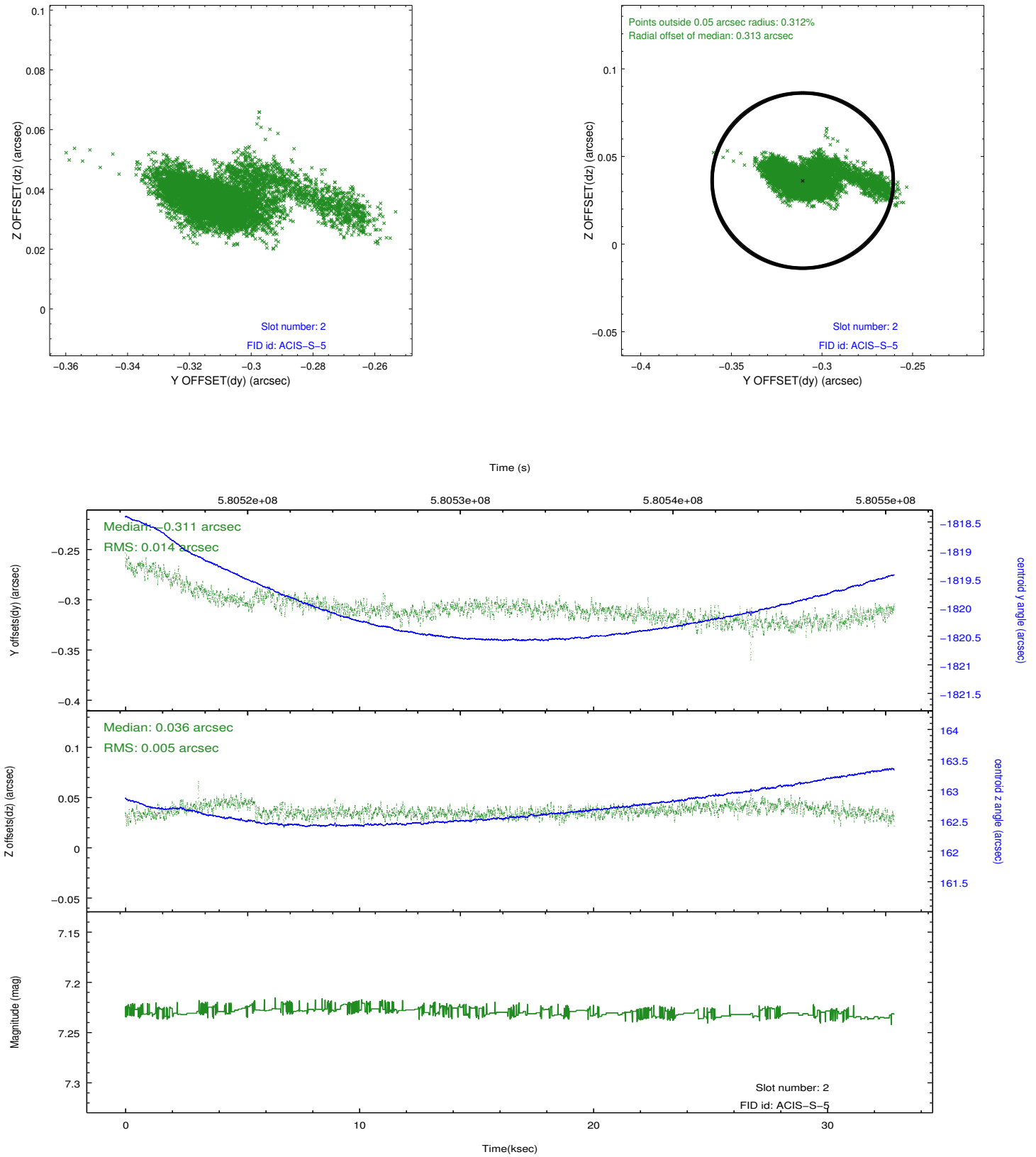
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

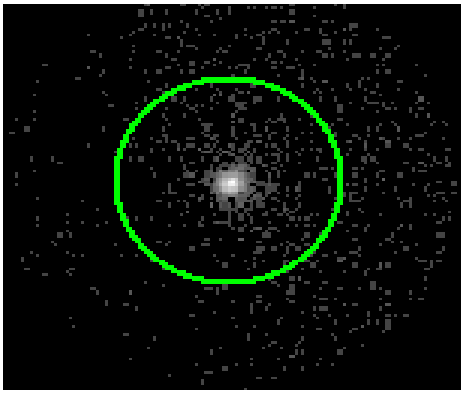


3 Gratings

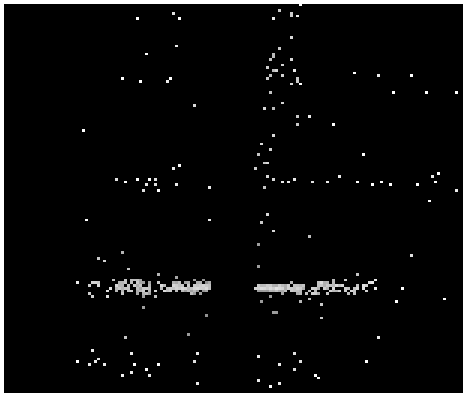
3.1 HEG Arm



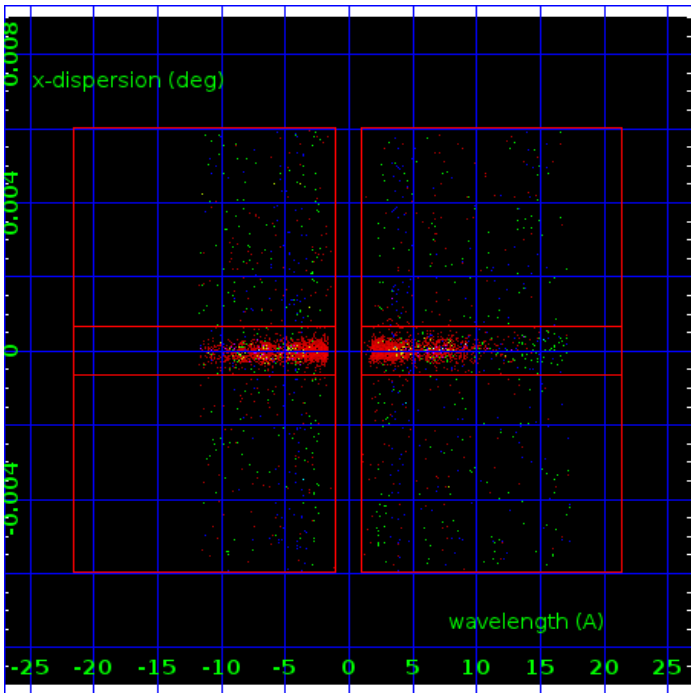
HEG Order Sort 123



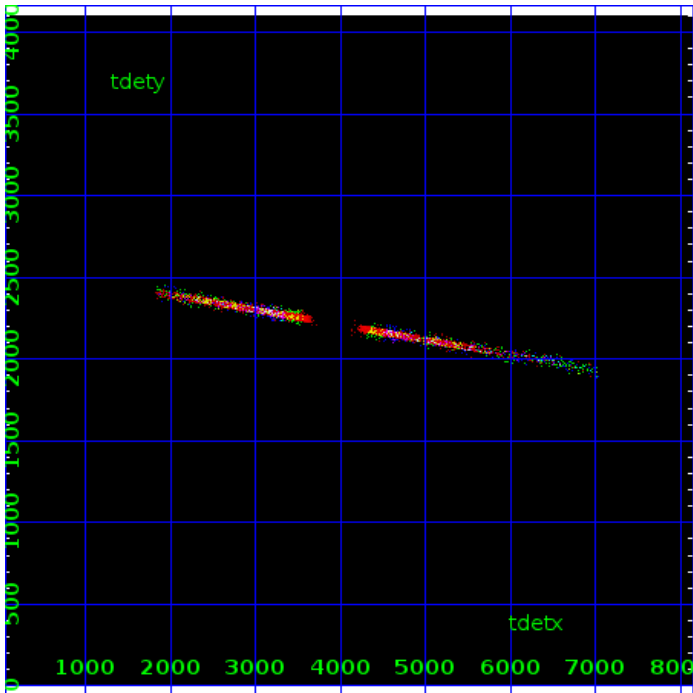
HEG Zero Order



HEG Order Sort ALL

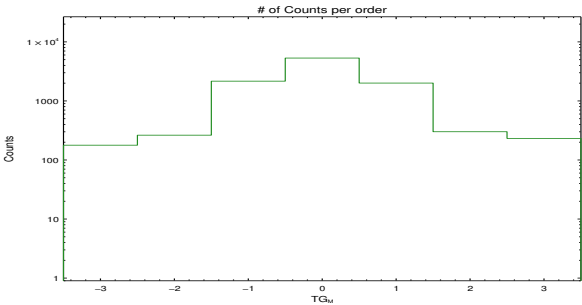


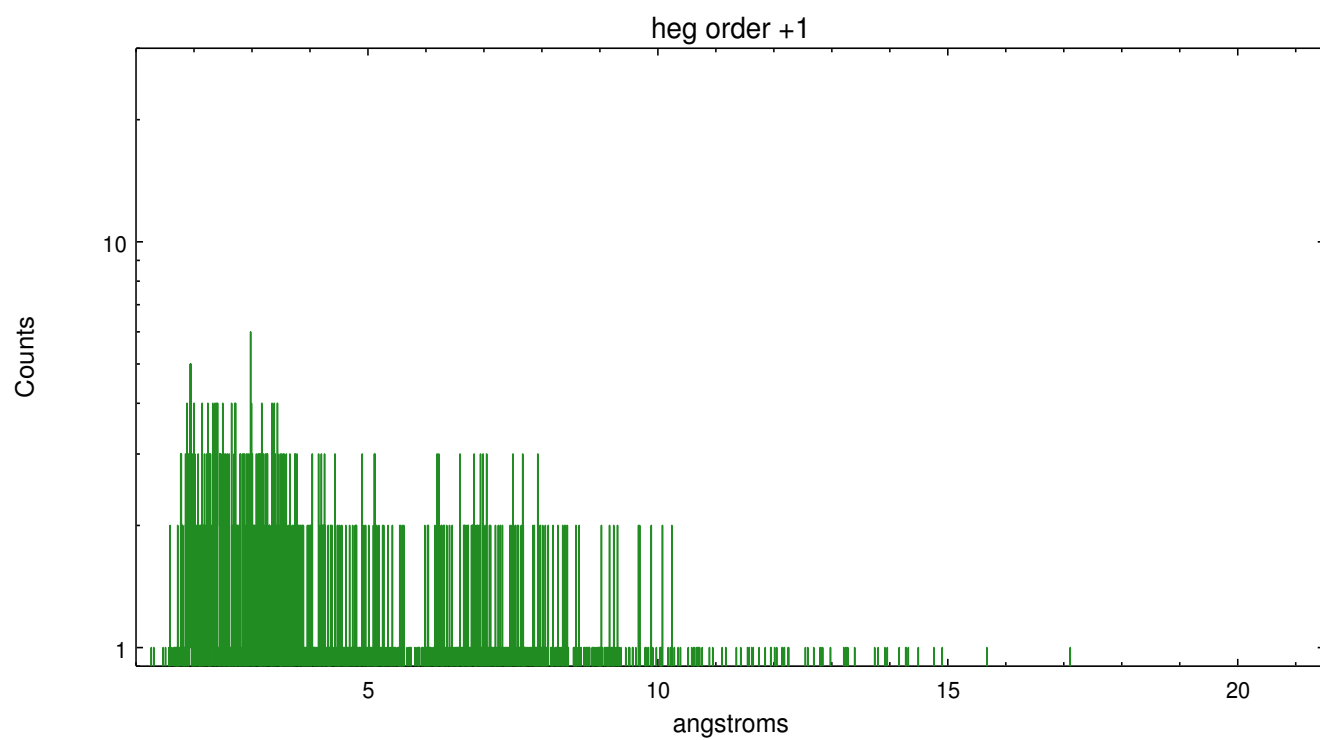
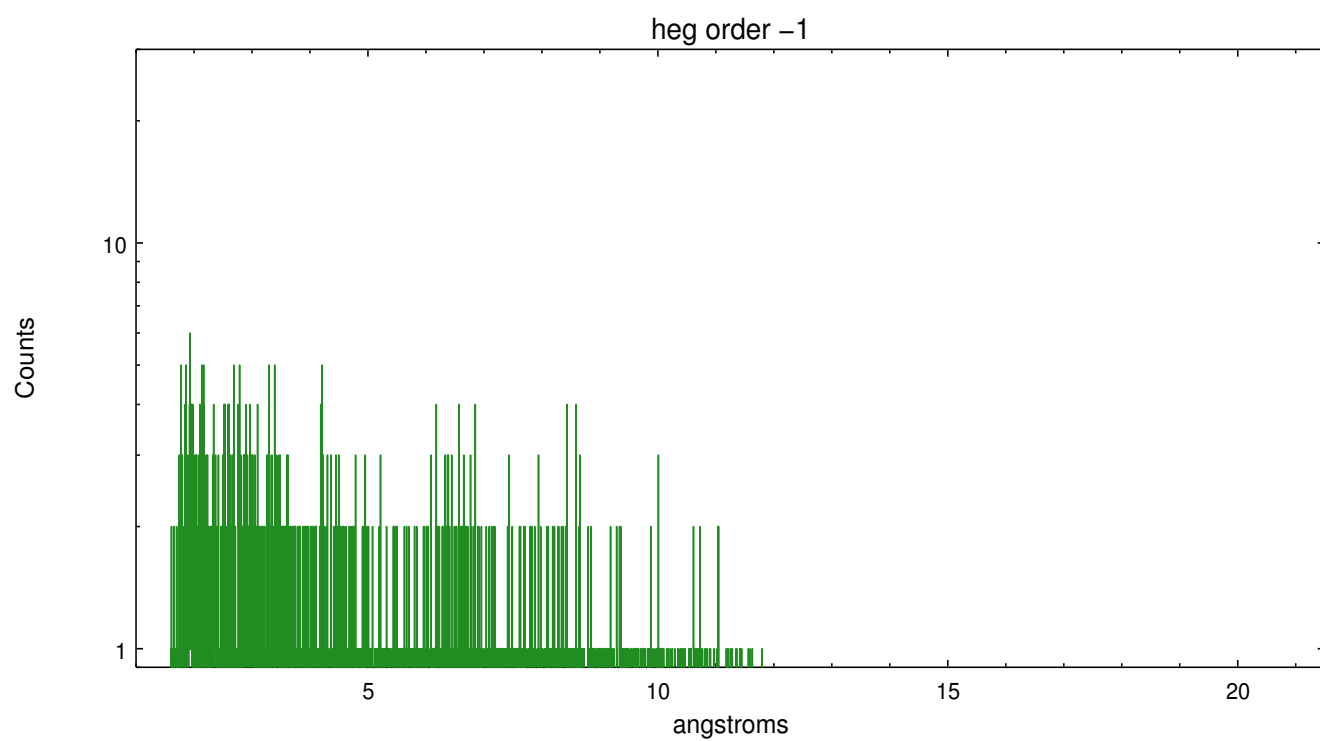
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	178	263	2161	5321	2006	301	232

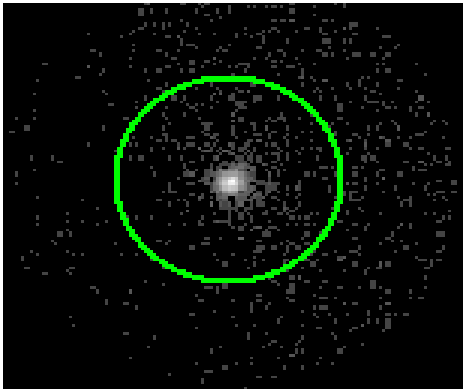




3.2 MEG Arm



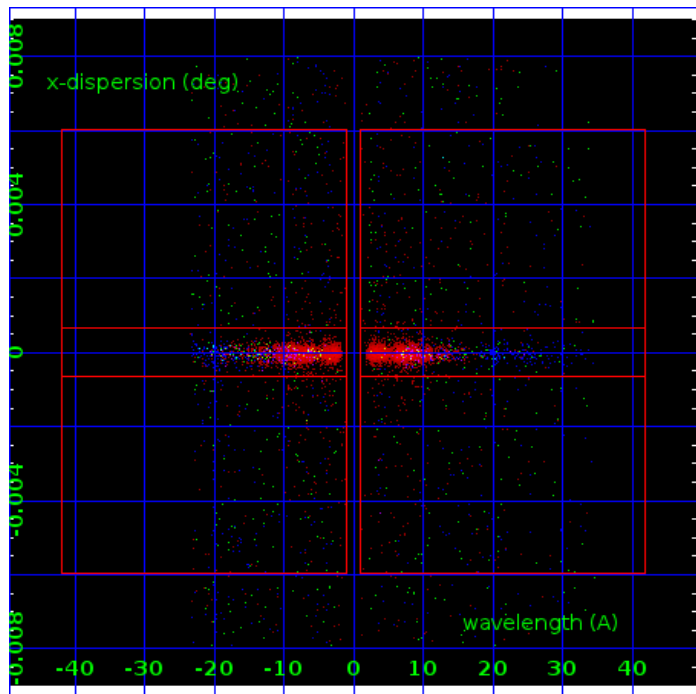
MEG Order Sort 123



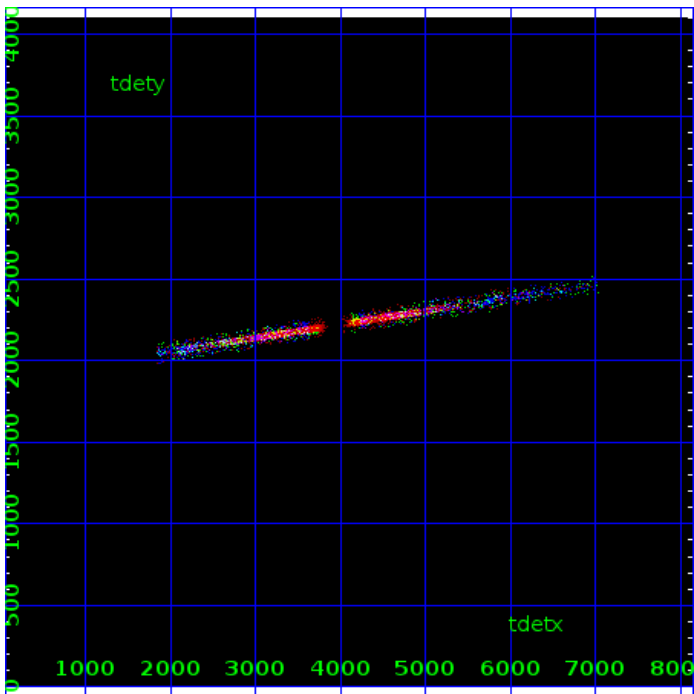
MEG Zero Order



MEG Order Sort ALL

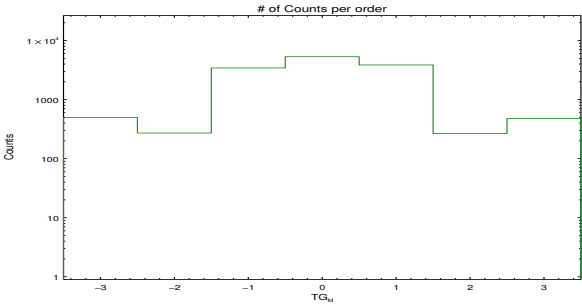


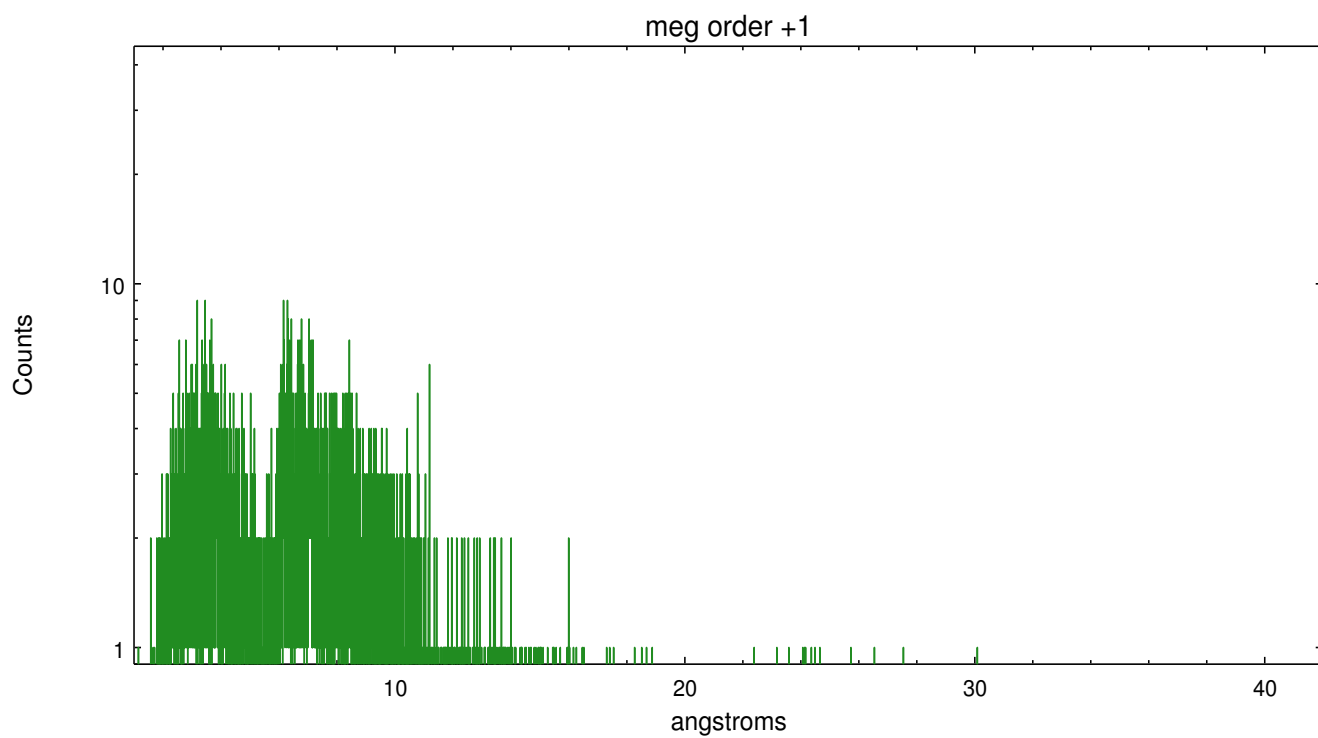
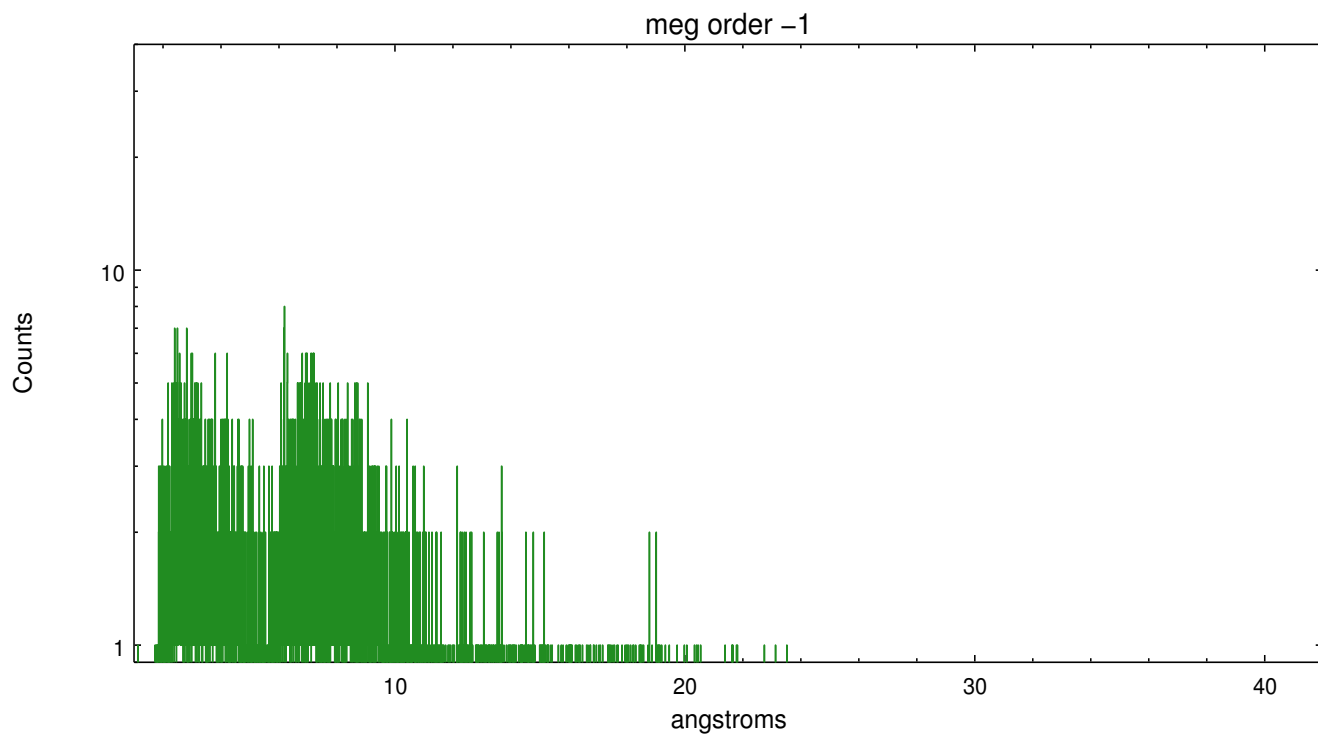
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	498	271	3435	5321	3857	266	477





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2016.05.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.782432764053

A.2 Comments