

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7360 - L2 Version 3
Chandra X-Ray Center

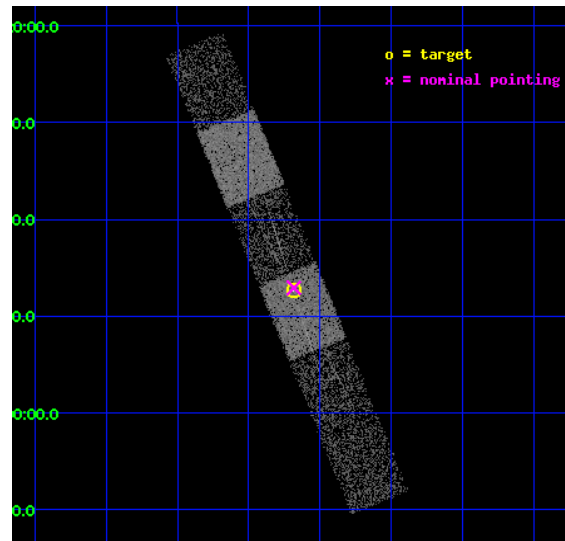
L2 Processing Date : Apr 20 2012

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1 Front

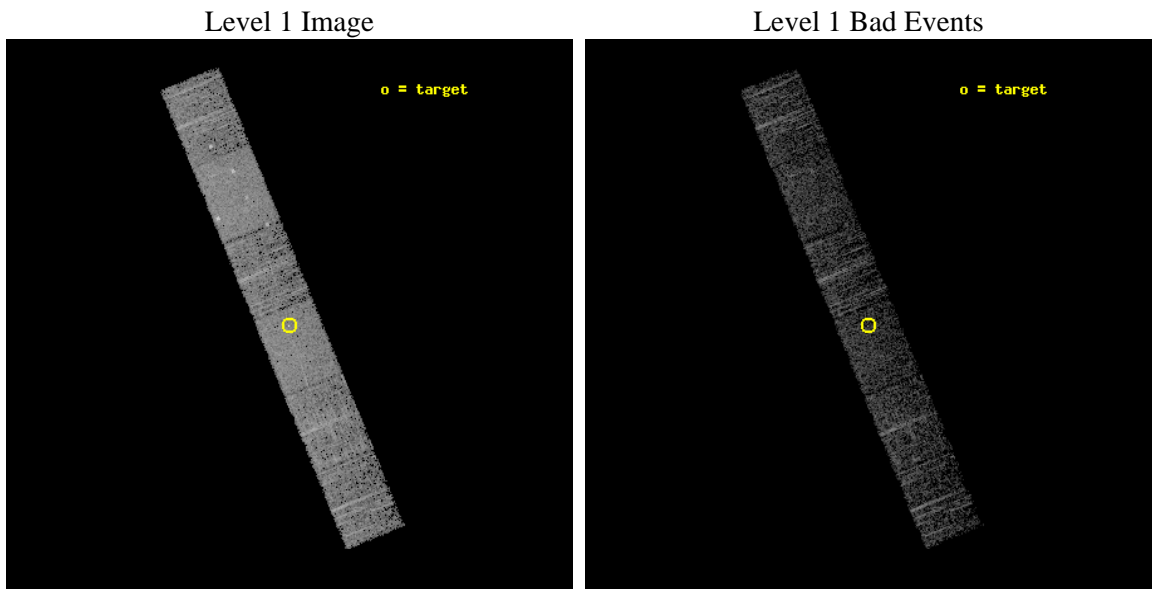
seq_num	701346	Sequence number
obs_id	7360	Observation id
title	Coordinated Spitzer/Chandra Observations of Gamma Ray Blazars	Prop
observer	Dr. Ann Wehrle	Principal investigator
object	3C279	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.046667	Observer's specified target RA [deg]
dec_targ	-5.789306	Observer's specified target Dec [deg]
ra_nom	194.04583841115	Nominal RA [deg]
dec_nom	-5.7845590261871	Nominal Dec [deg]
roll_nom	67.673997101003	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2057.5	Sum of GTIs [s]
livetime	2024.2695904039	Livetime [s]
ontime4	2057.5	Sum of GTIs [s]
ontime5	2057.5	Sum of GTIs [s]
ontime6	2057.5	Sum of GTIs [s]
ontime7	2057.5	Sum of GTIs [s]
ontime8	2057.5	Sum of GTIs [s]
ontime9	2057.5	Sum of GTIs [s]
l2events	25288	Number of level 2 events



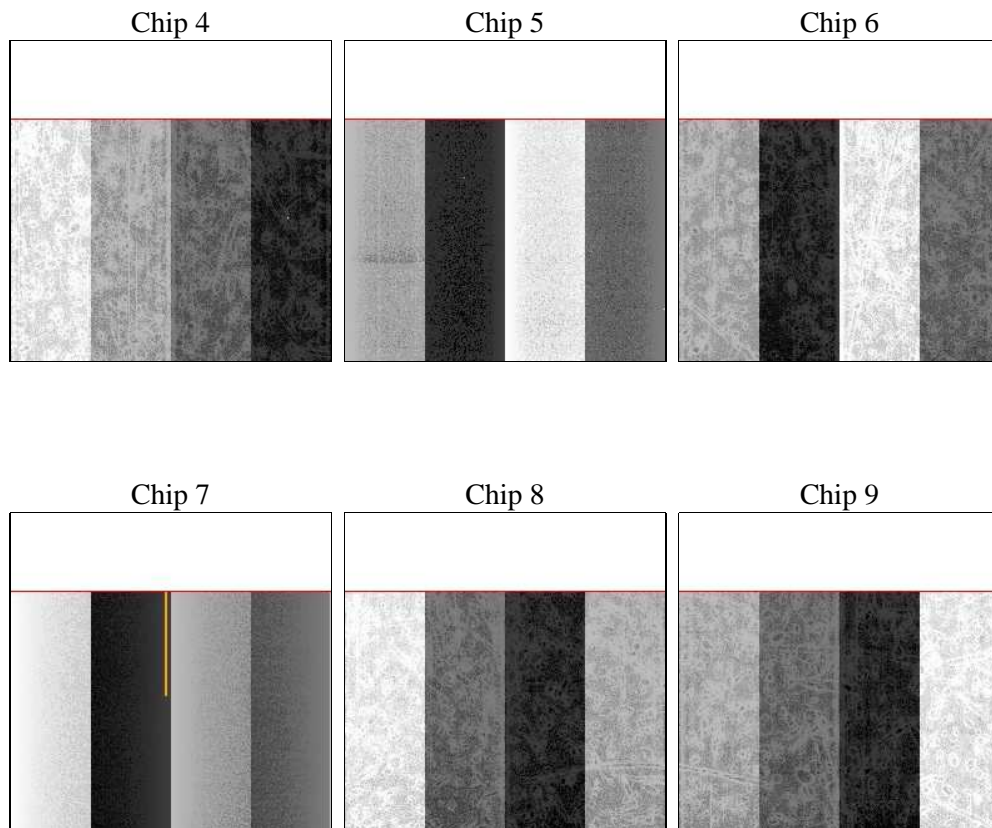
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2057.5	Sum of GTIs [s]
caldbver	4.4.9	 	ontime4	2057.5	Sum of GTIs [s]
date	2012-04-20T14:34:28	Date and time of file creation	ontime5	2057.5	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	2057.5	Sum of GTIs [s]
			ontime7	2057.5	Sum of GTIs [s]
			ontime8	2057.5	Sum of GTIs [s]
			ontime9	2057.5	Sum of GTIs [s]
			l1events	108917	Number of level 1 events

2.1.4 Events

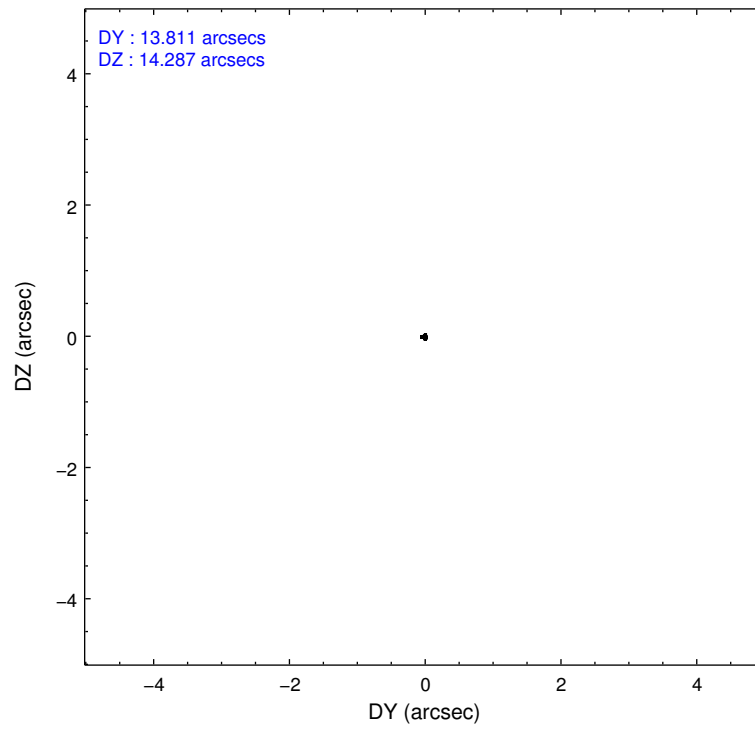
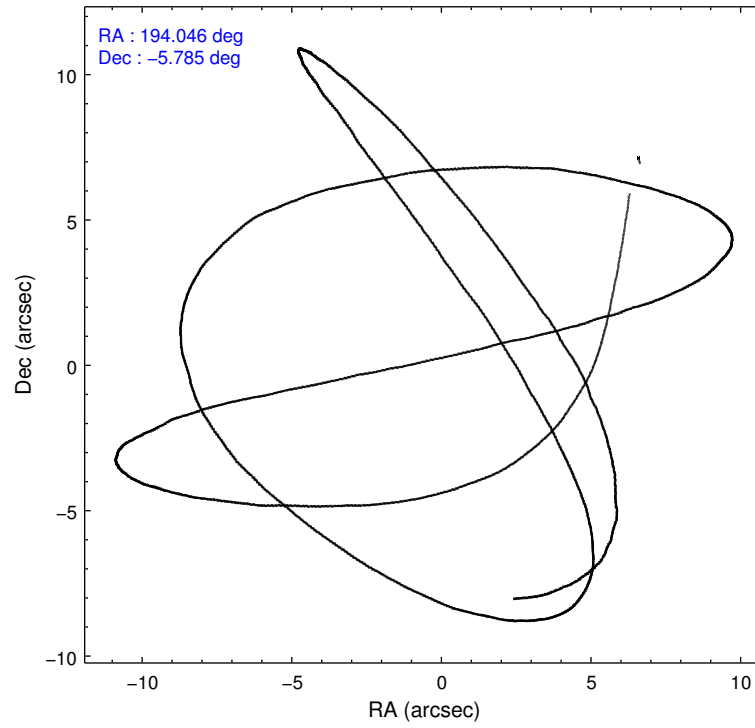
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	16721	23182	15747	20674	18519	14074
rejected events	14411	12331	13669	11676	13991	12216
rejected %	86%	53%	86%	56%	75%	86%

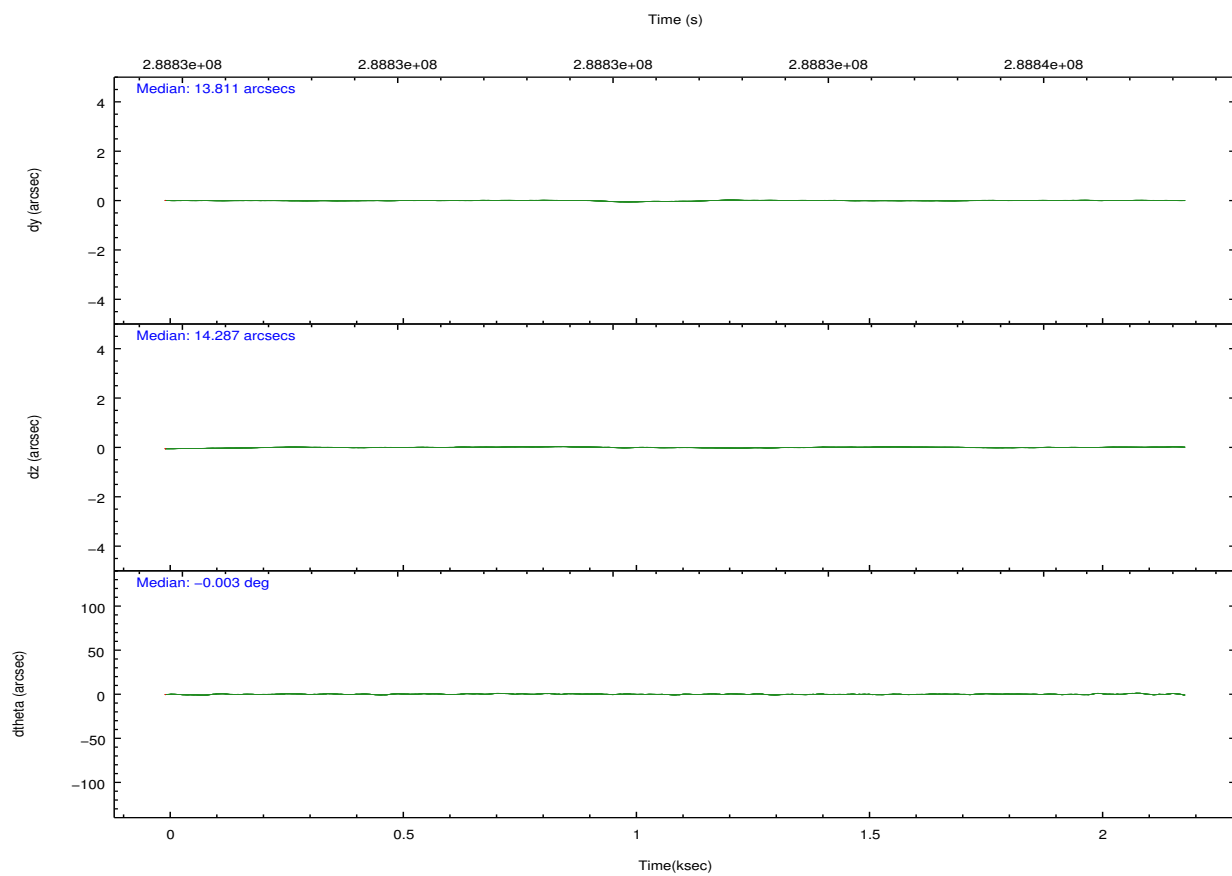
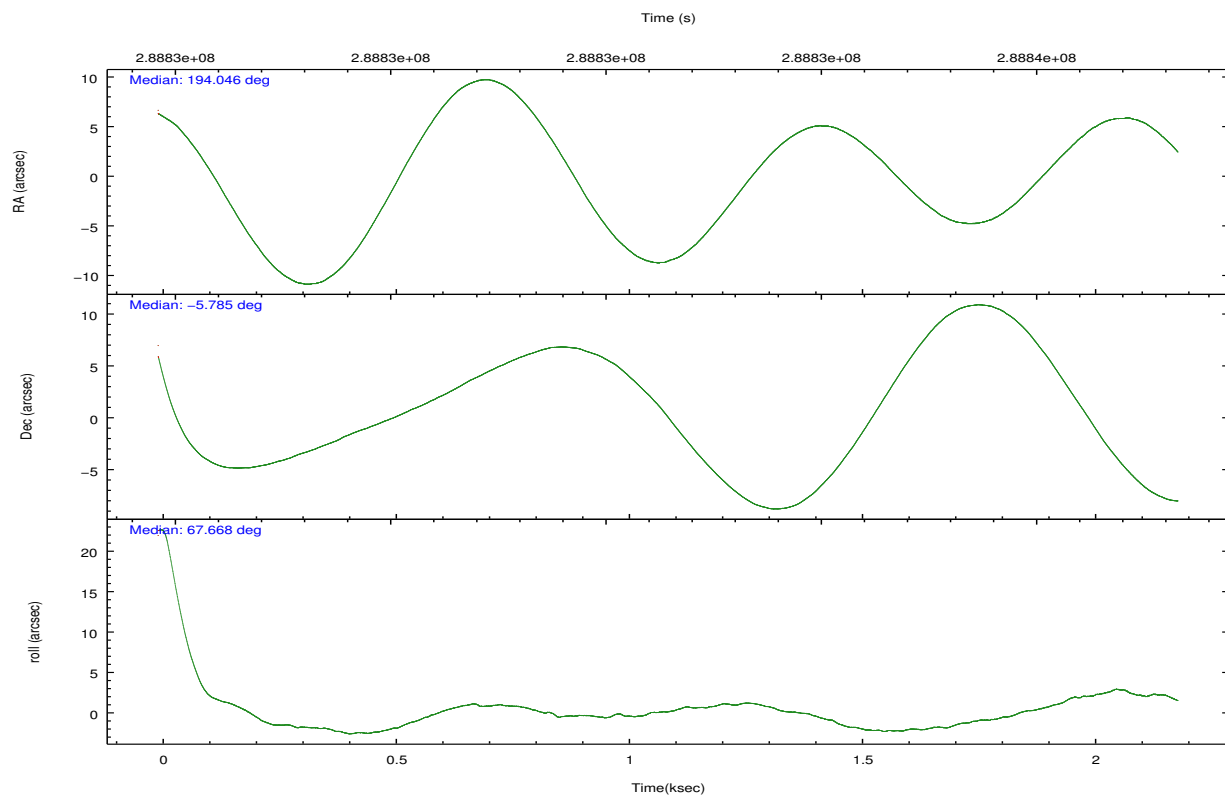
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1193	1494	907	870	1360	772
	7%	6%	5%	4%	7%	5%
grade 1 events	12	87	11	28	8	6
	0%	0%	0%	0%	0%	0%
grade 2 events	400	3211	421	1829	970	353
	2%	13%	2%	8%	5%	2%
grade 3 events	187	413	154	797	474	184
	1%	1%	0%	3%	2%	1%
grade 4 events	195	453	201	793	454	177
	1%	1%	1%	3%	2%	1%
grade 5 events	635	1735	640	1910	882	706
	3%	7%	4%	9%	4%	5%
grade 6 events	339	5301	403	4724	1275	378
	2%	22%	2%	22%	6%	2%
grade 7 events	13760	10488	13010	9723	13096	11498
	82%	45%	82%	47%	70%	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	194.049915	194.0458384111526	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-5.811562	-5.784559026187104	Subarray start row	1	1
[deg] Pointing Roll	67.517647	67.67399710100294	Subarray row count	774	774
[s] Window start time (MET)	285896285.184000	285896285.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	289193765.184000	289193765.184000	[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	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	288833232.184000	288832264.79698			
Observation start date	2007-02-25T23:26:07	2007-02-25T23:11:04			
[s] Observation end time (MET)	288835232.184000	288836005.53466			
Observation end date	2007-02-25T23:59:27	2007-02-26T00:13:25			
Read mode	TIMED	TIMED			

2.3 Aspect



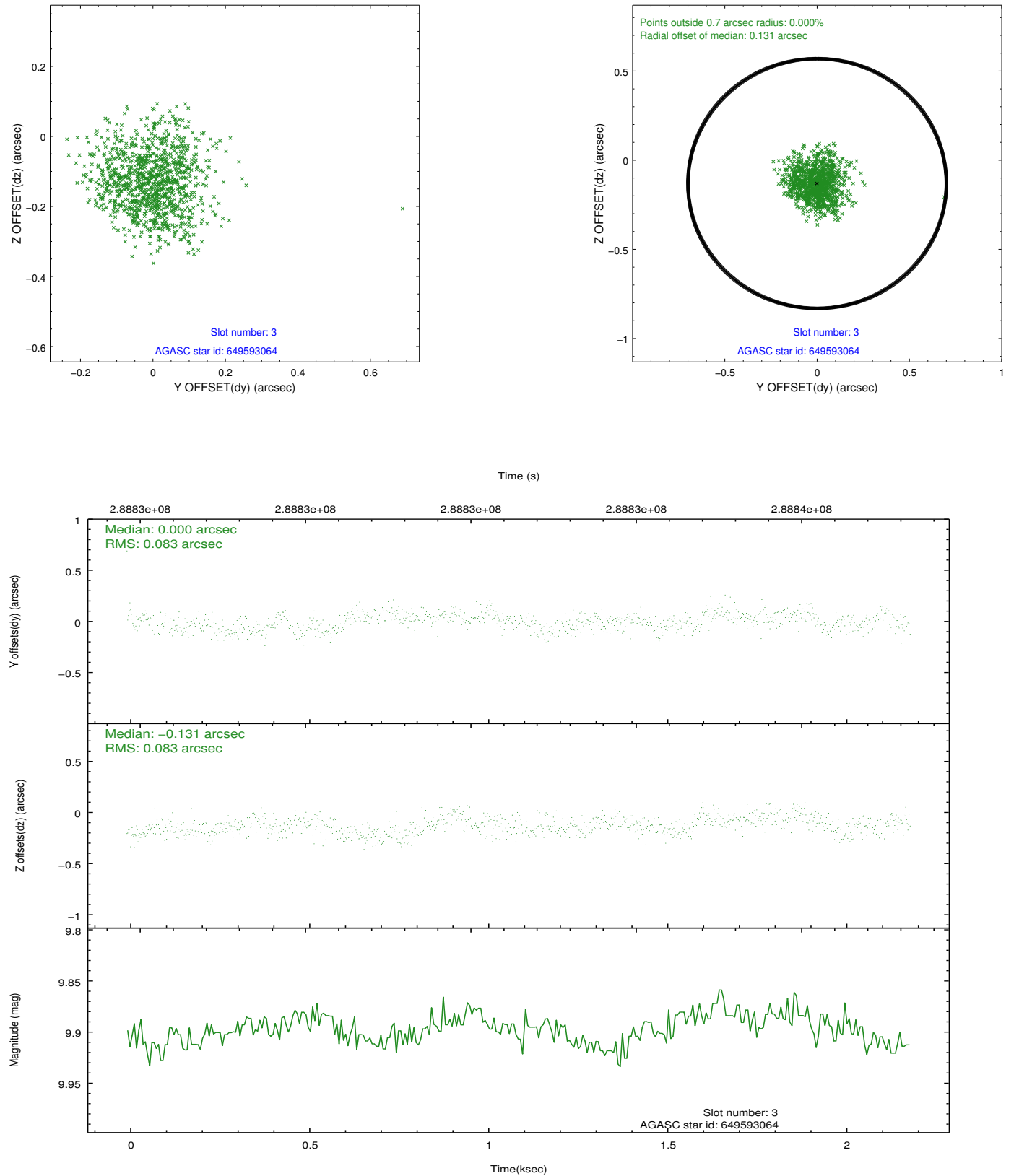


Slot Statistics

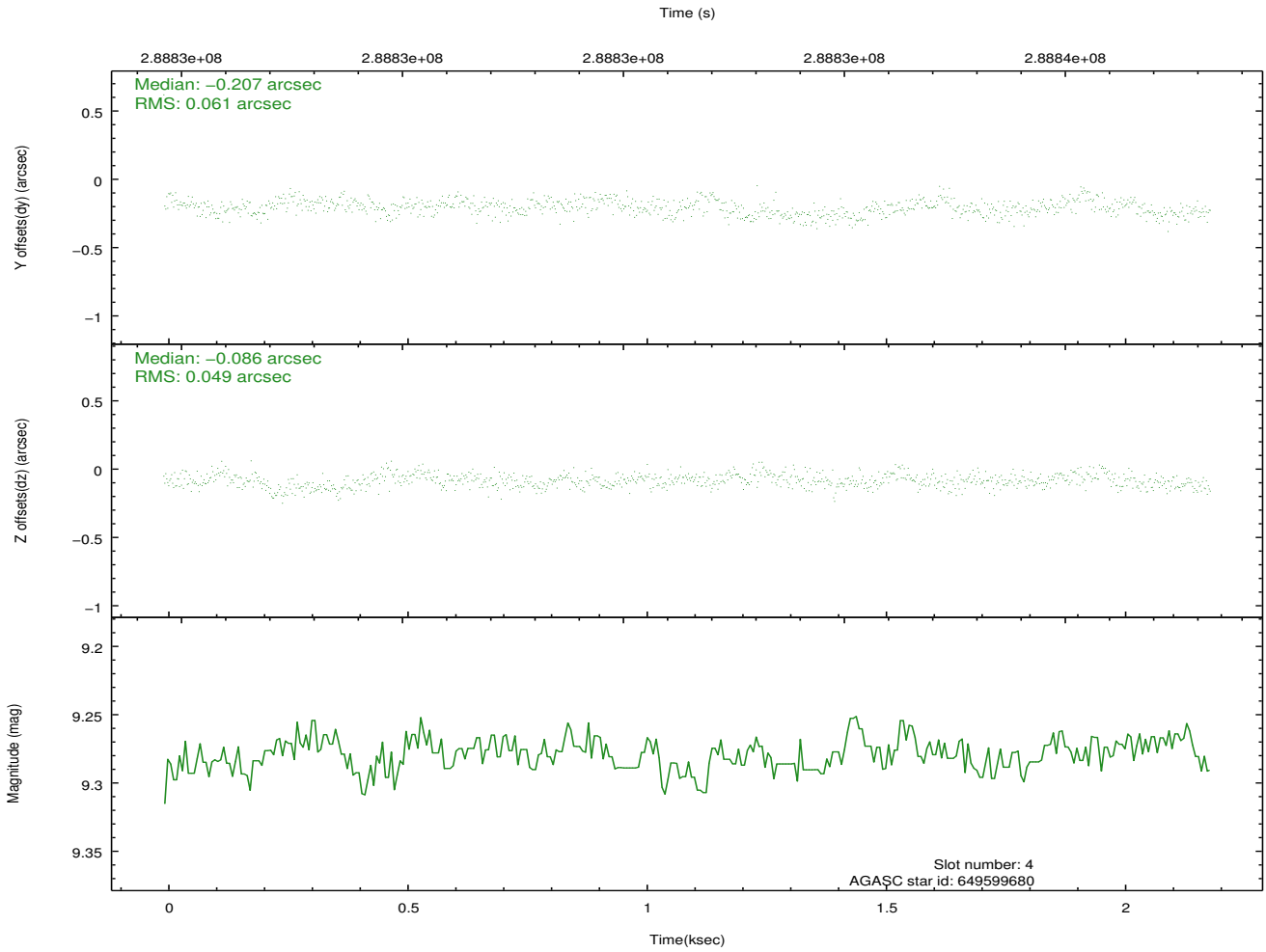
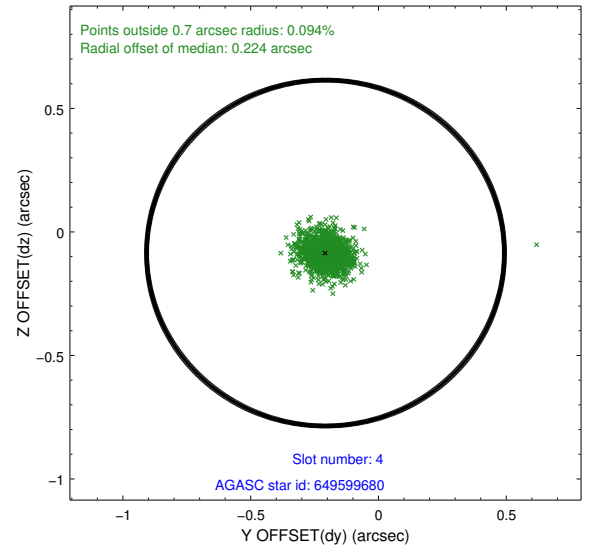
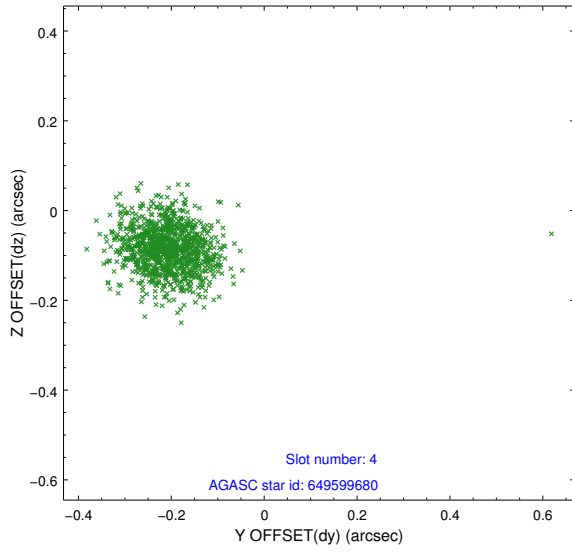
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	534	-0.092	-0.105	0.007	0.012	0.000000	0.000000	-766.65	-1797.88
1	FID	ACIS-S-4	7.18	533	0.238	0.072	0.005	0.011	0.000000	0.000000	2145.61	107.53
2	FID	ACIS-S-5	7.23	534	-0.179	0.042	0.007	0.012	0.000000	0.000000	-1815.74	104.61
3	GUIDE	649593064	9.90	1066	0.000	-0.131	0.125	0.195	193.584328	-5.919936	-998.41	1391.03
4	GUIDE	649599680	9.28	1067	-0.207	-0.086	0.078	0.127	194.094993	-5.408421	1402.01	407.31
5	GUIDE	649599704	8.66	1067	0.068	0.234	0.068	0.110	194.128261	-6.327014	-1605.73	-967.60
6	GUIDE	649601232	8.46	1066	0.102	0.249	0.072	0.121	194.416640	-6.392285	-1431.33	-2012.51
7	GUIDE	649594216	9.48	1066	0.048	-0.264	0.106	0.170	193.273989	-6.022654	-1767.87	2273.54

2.4 Star Slots

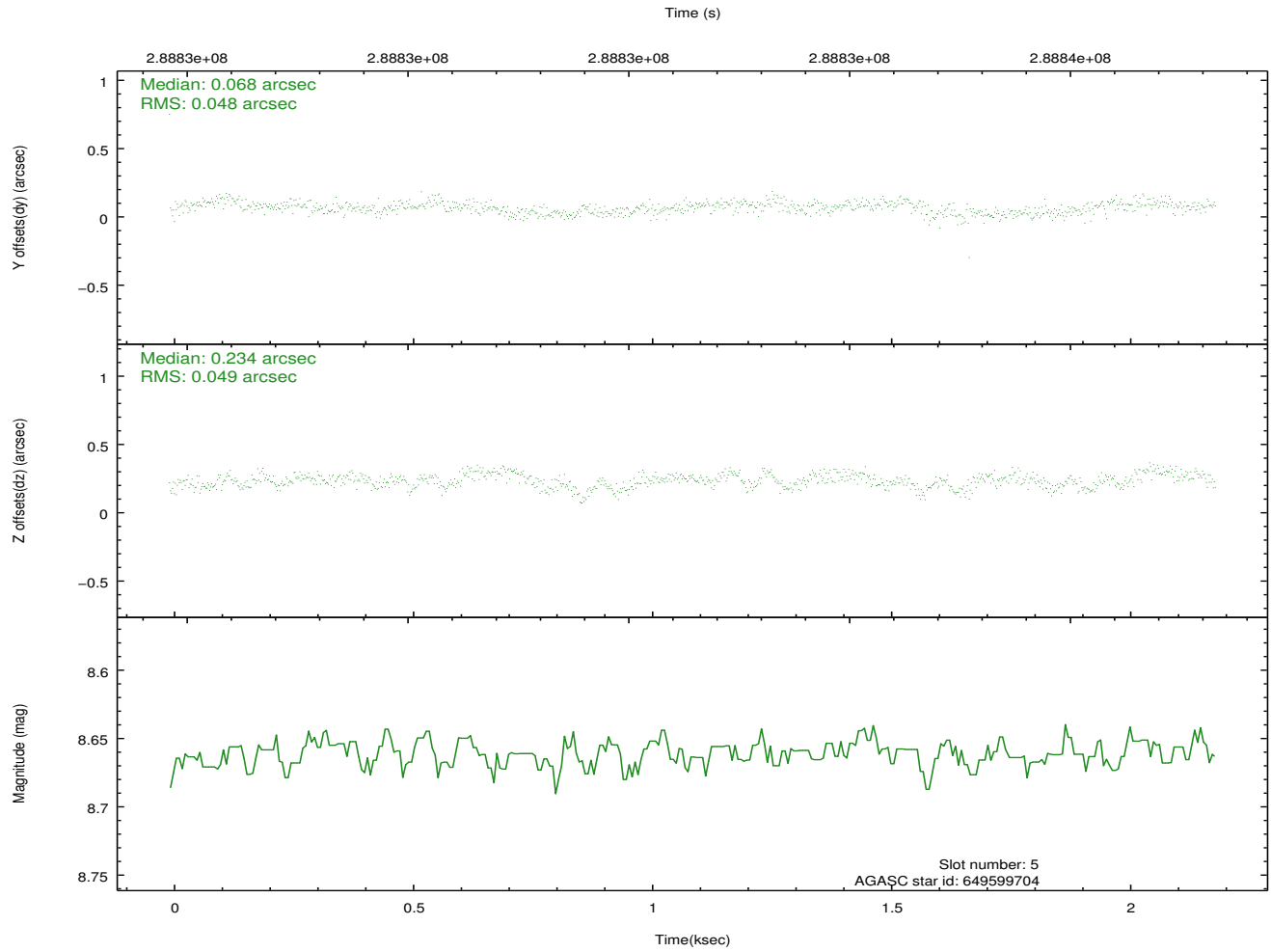
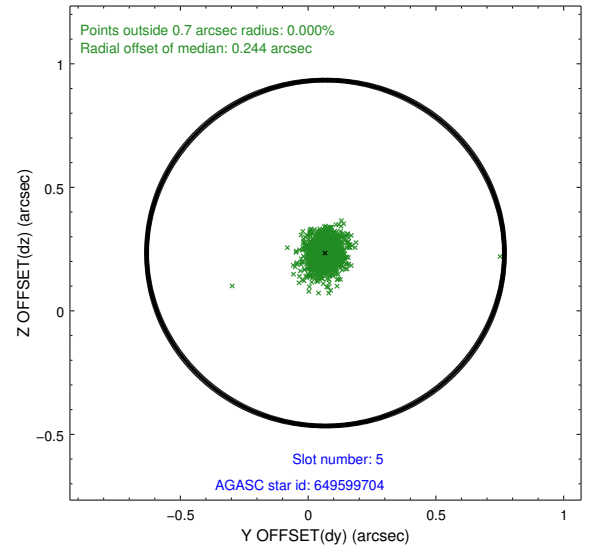
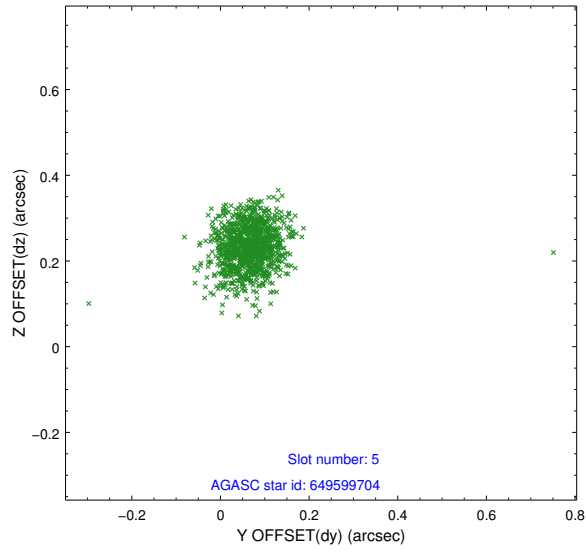
2.4.1 Slot 3



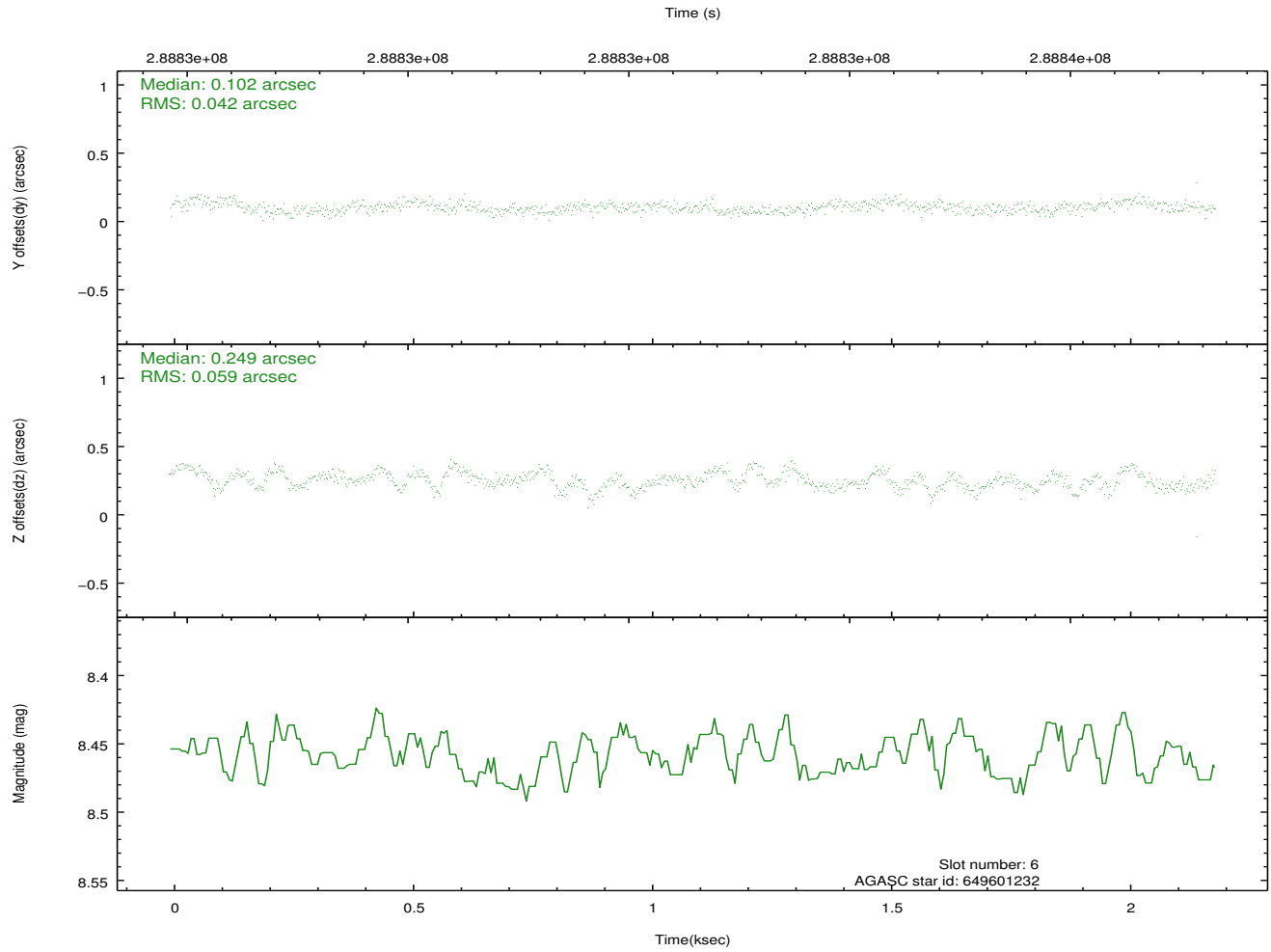
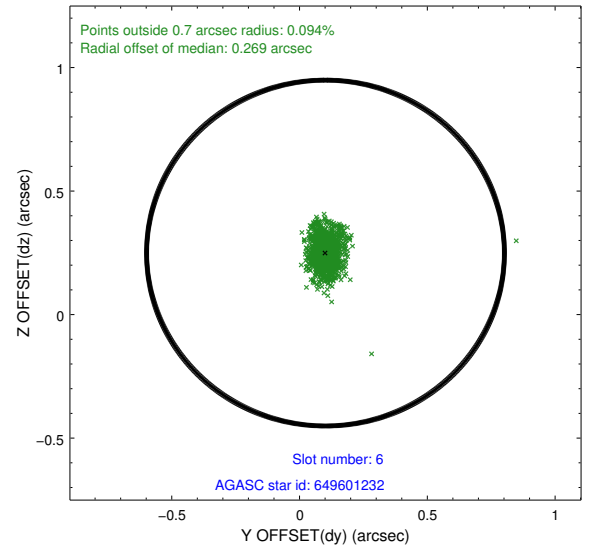
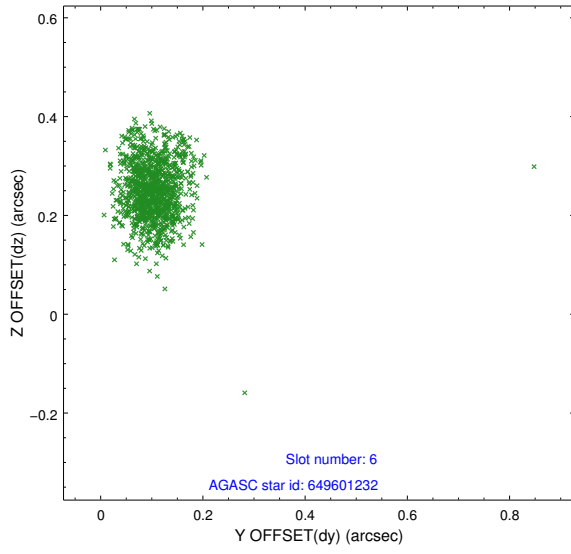
2.4.2 Slot 4



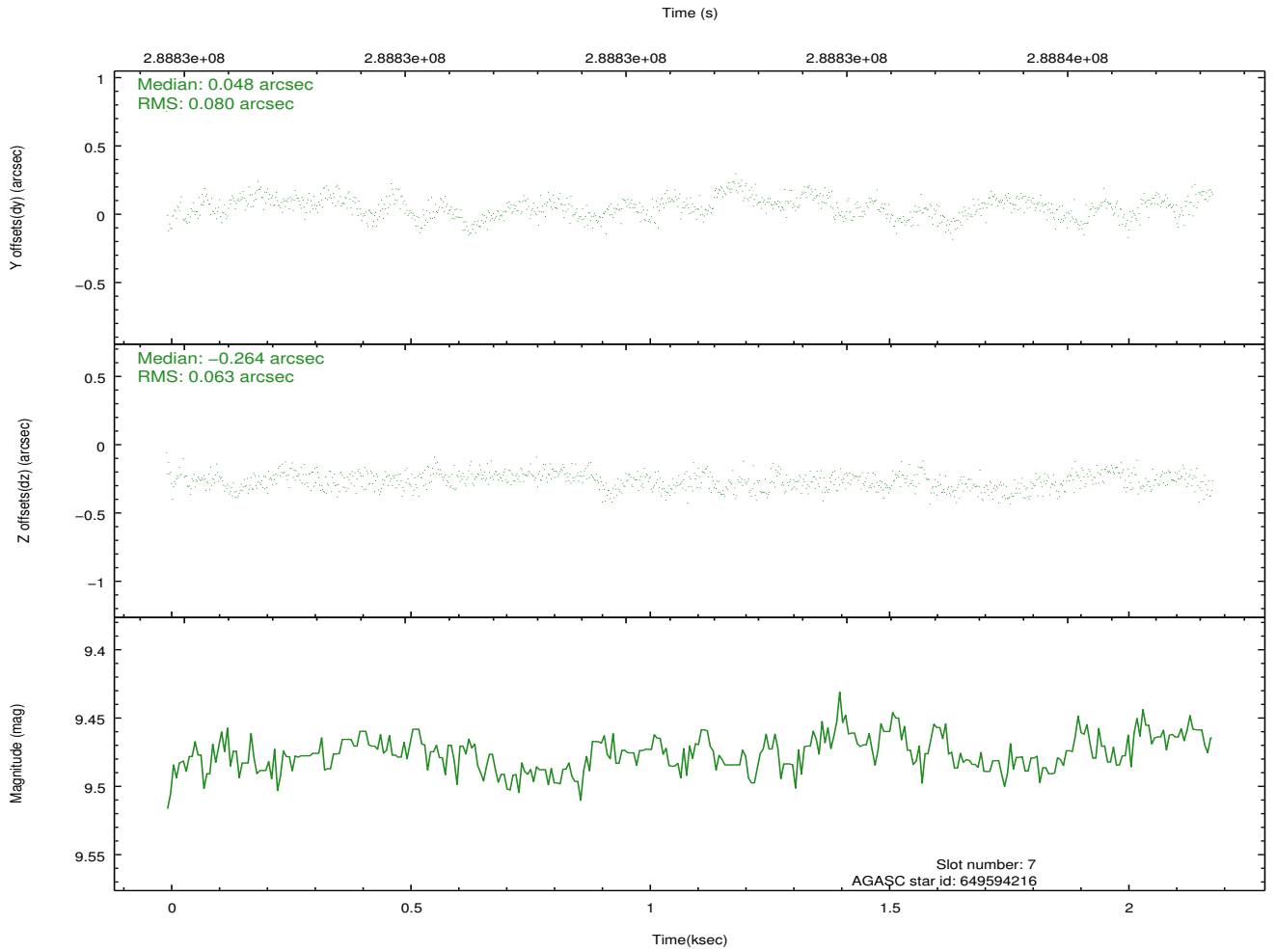
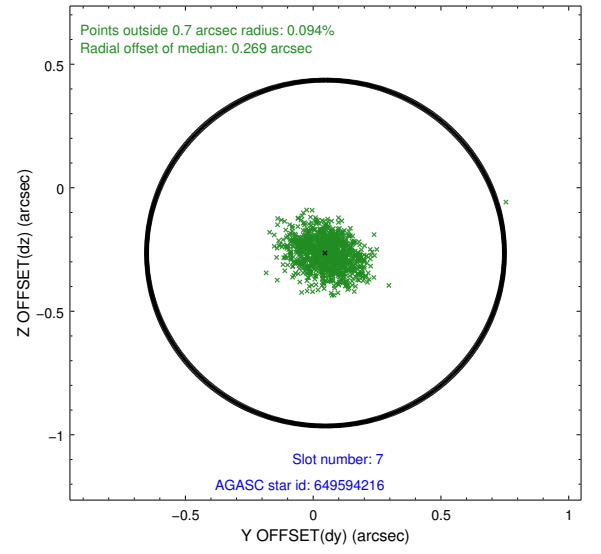
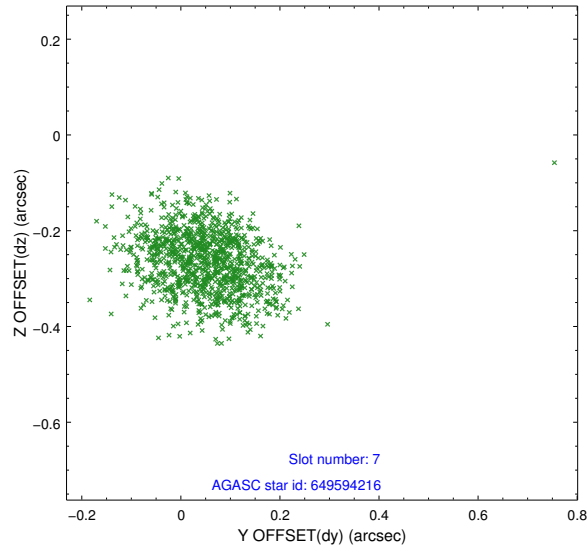
2.4.3 Slot 5



2.4.4 Slot 6

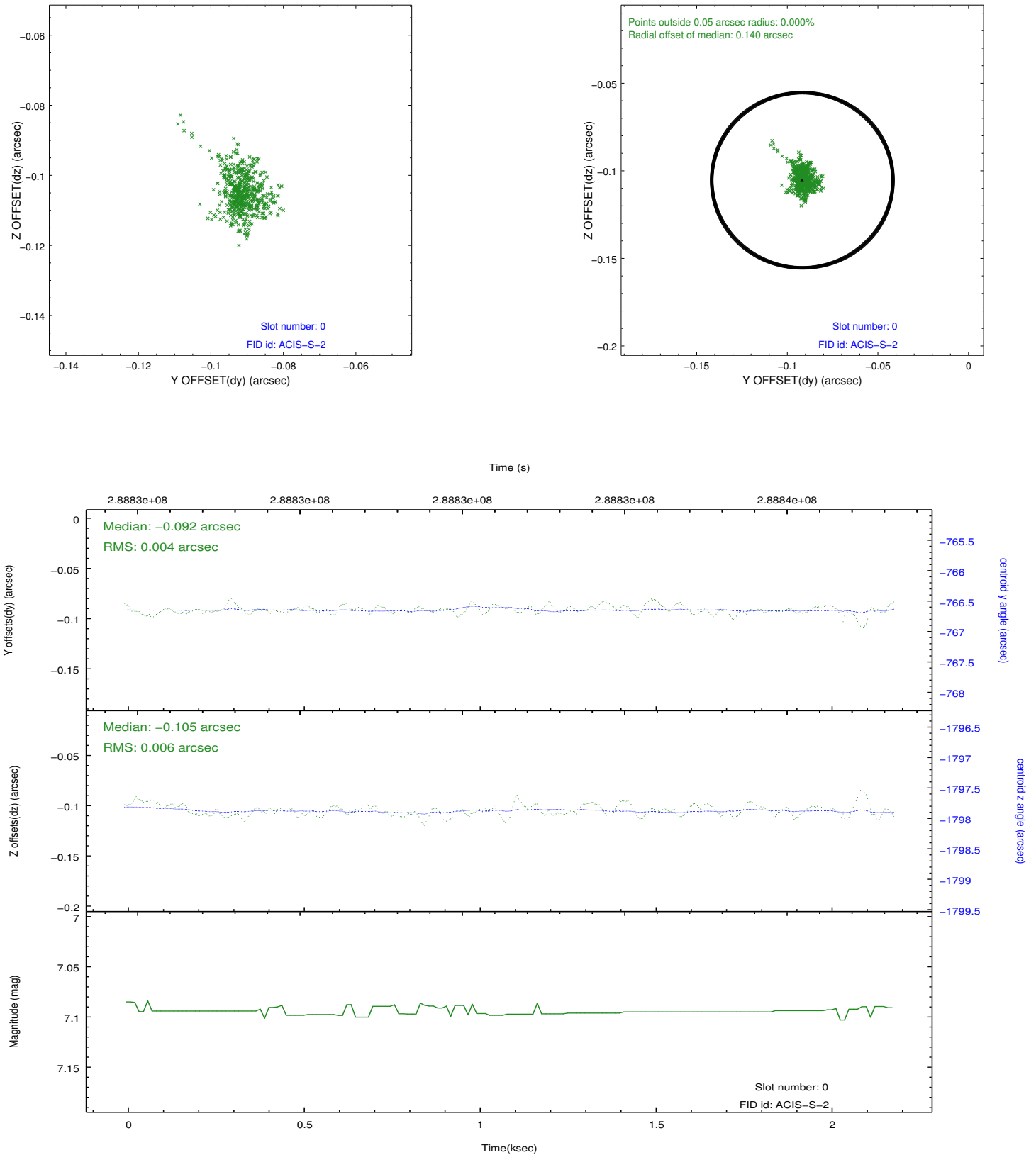


2.4.5 Slot 7

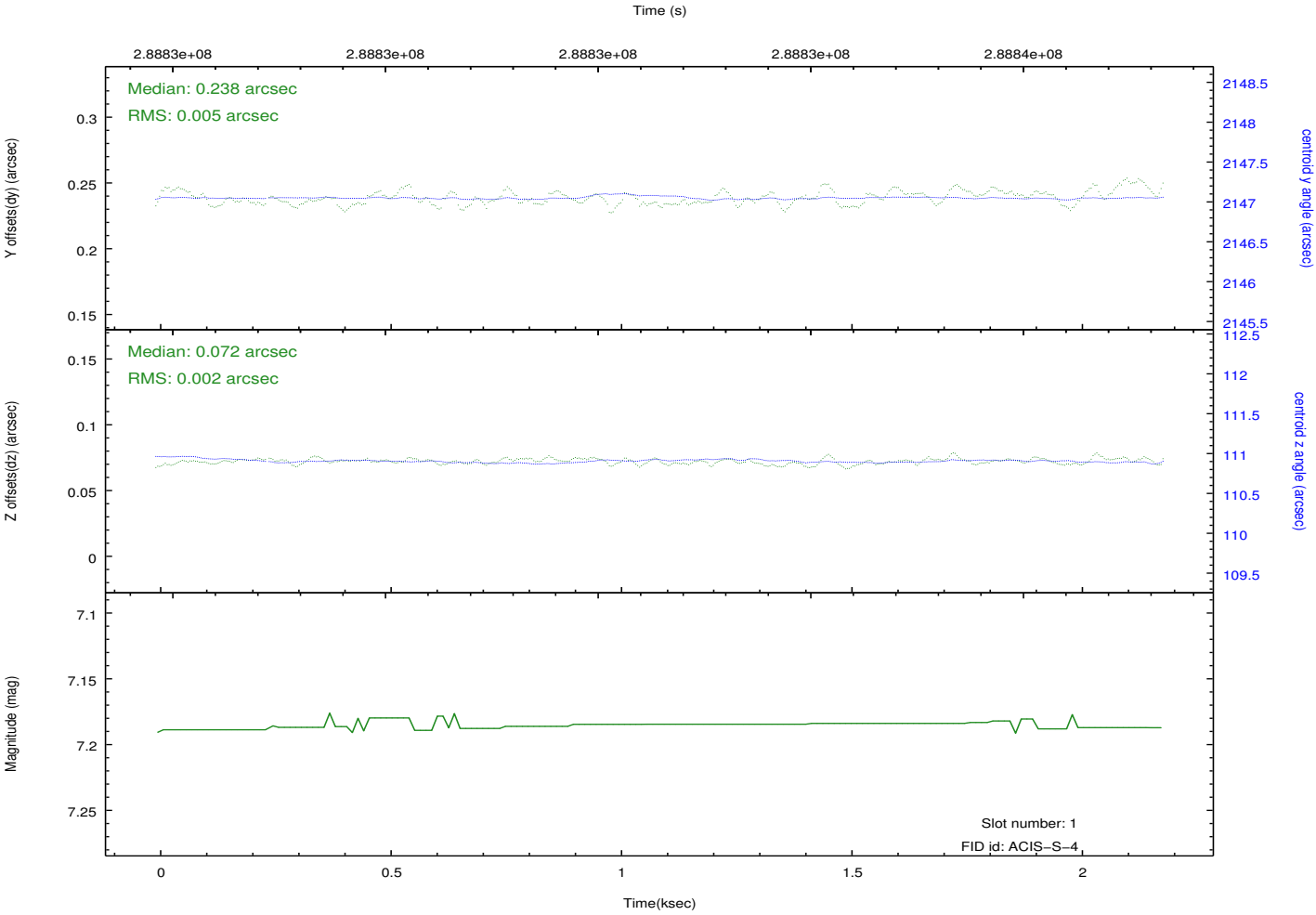
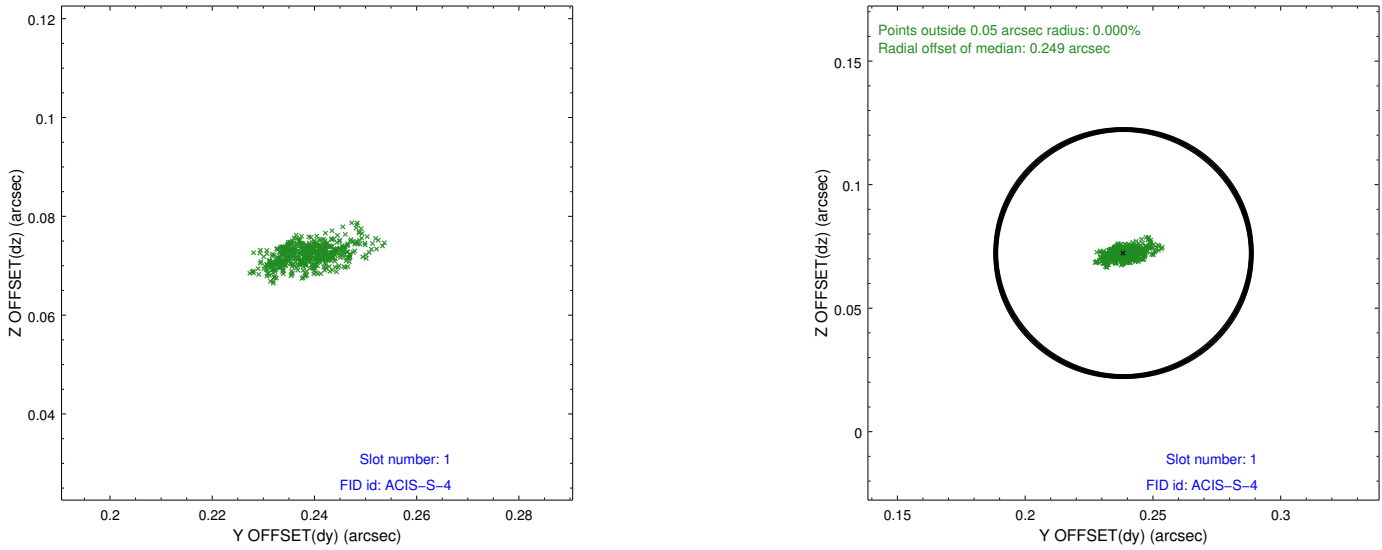


2.5 FID Slots

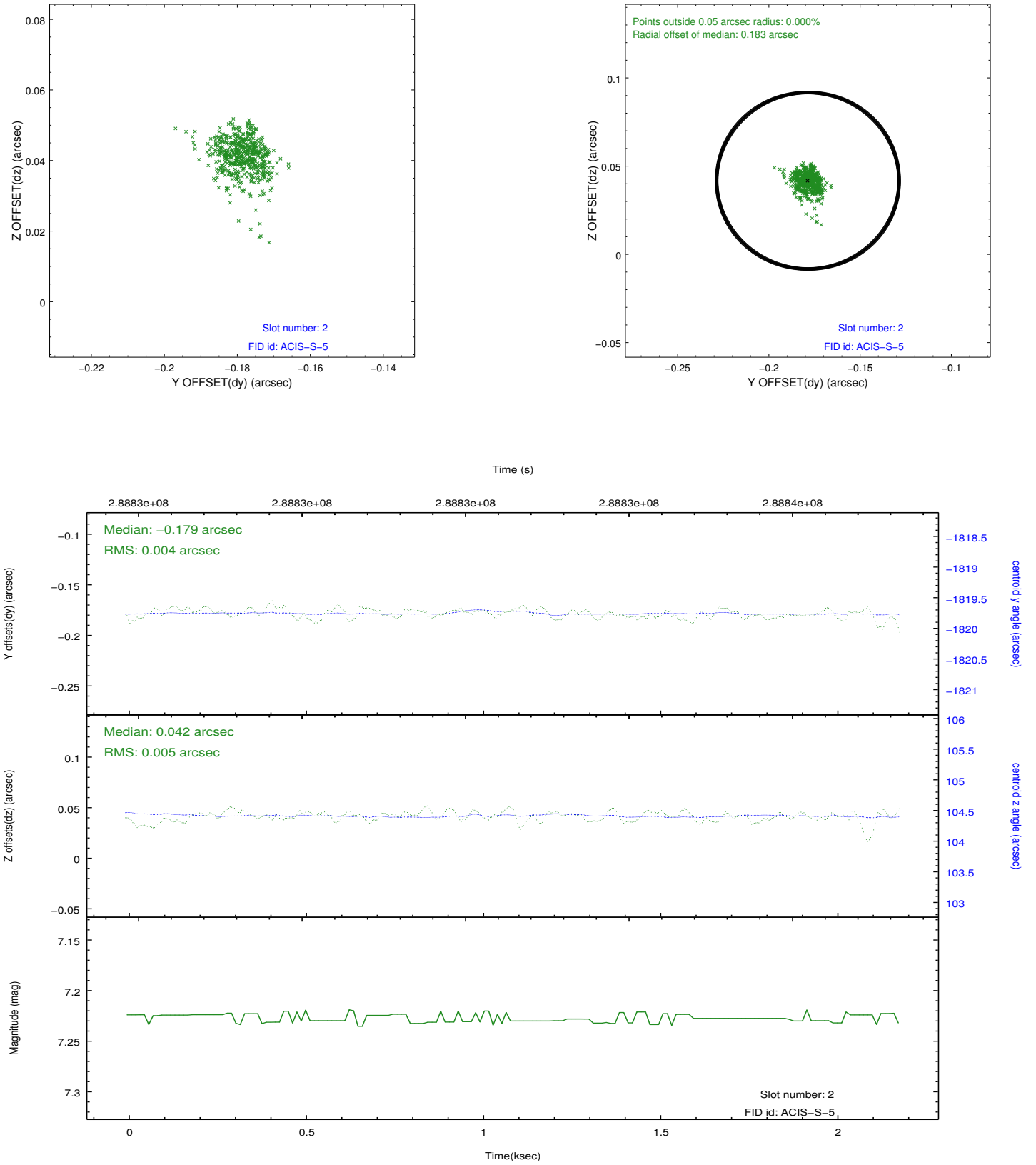
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

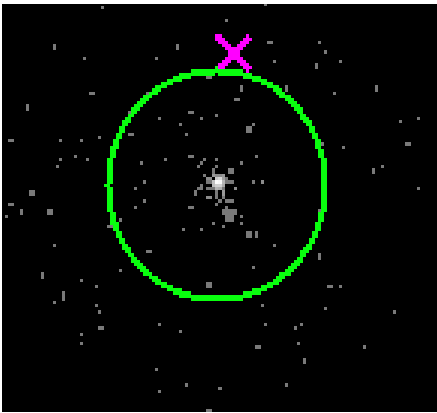


3 Gratings

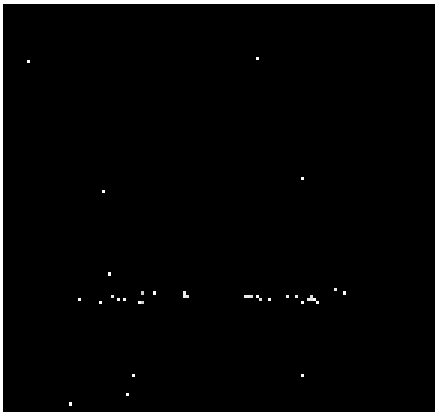
3.1 HEG Arm



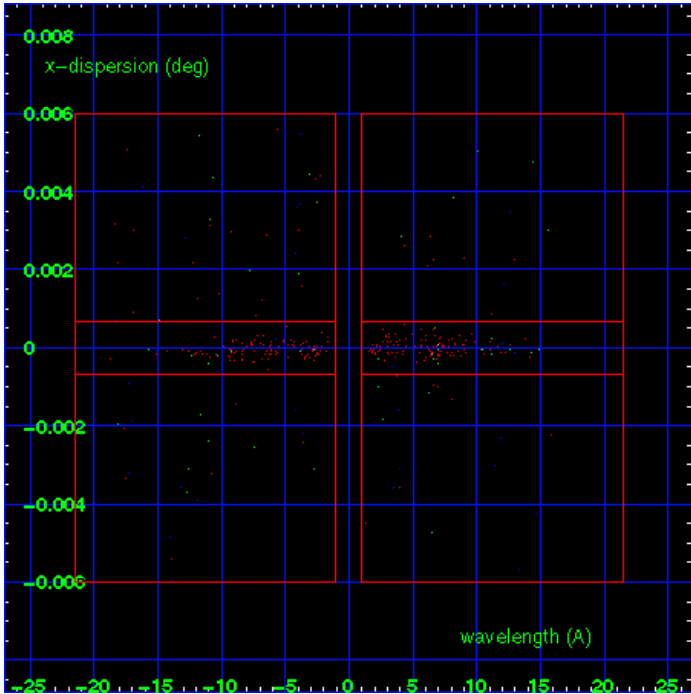
HEG Order Sort 123



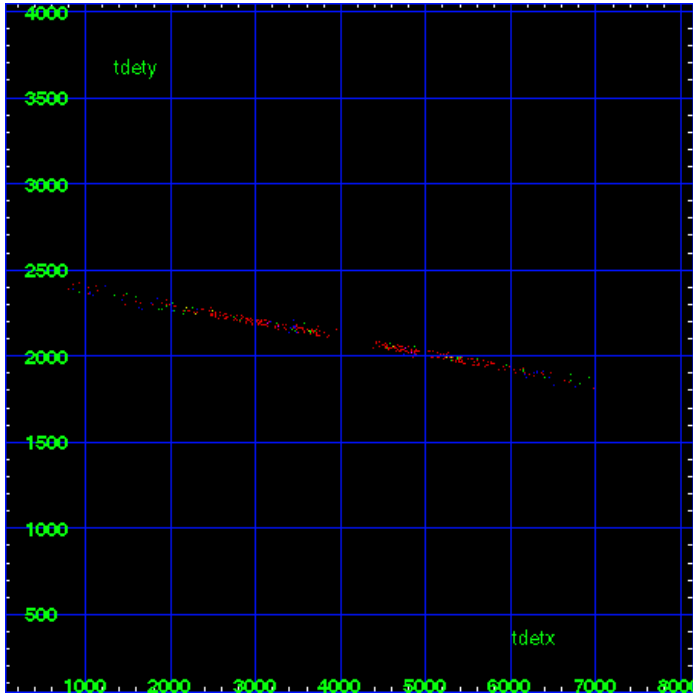
HEG Zero Order



HEG Order Sort ALL

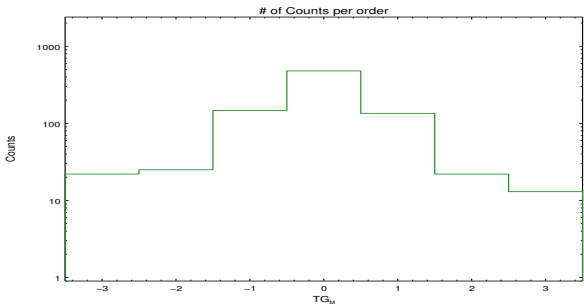


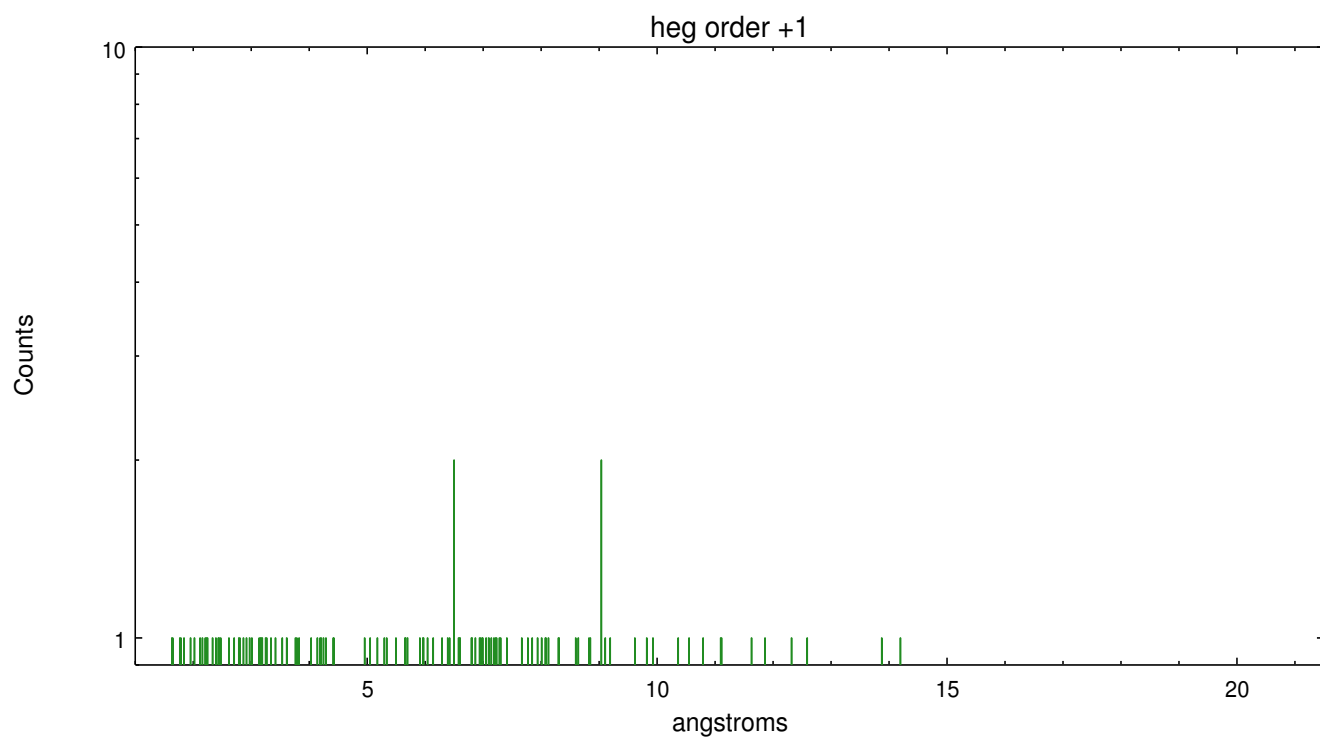
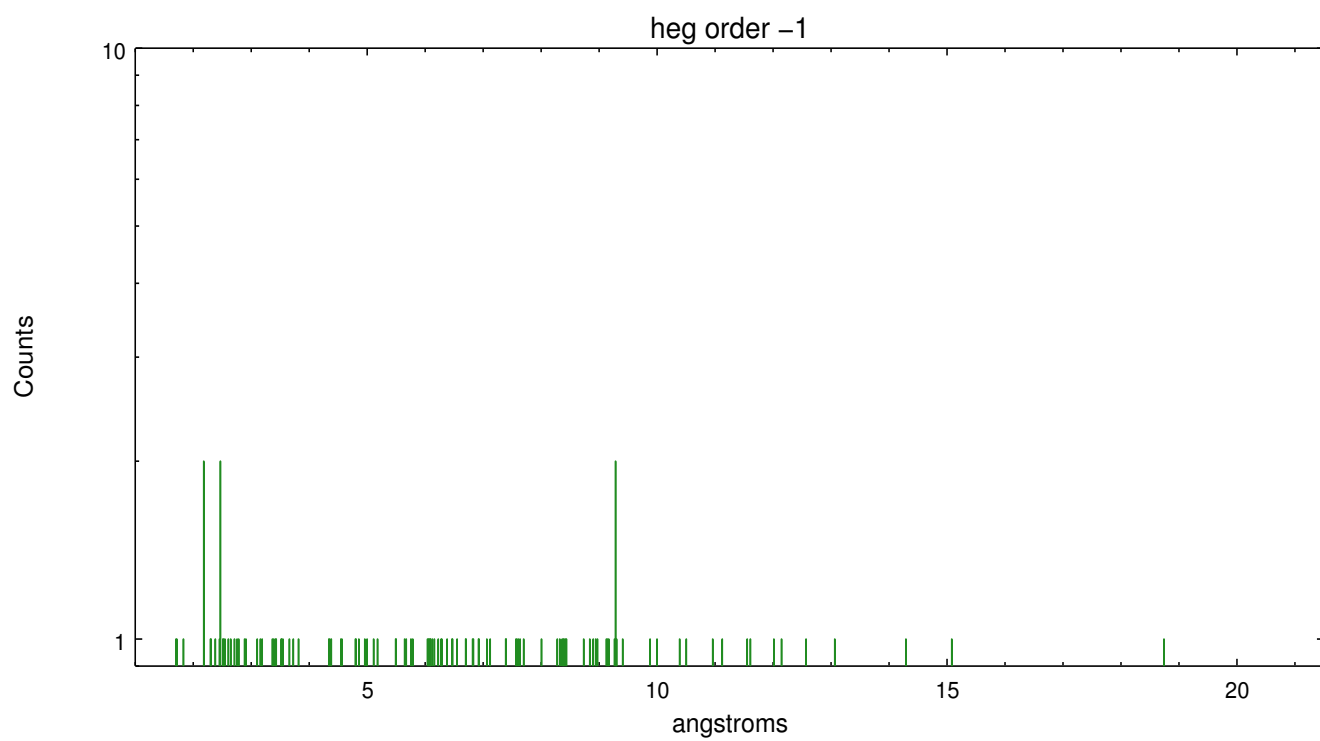
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	22	25	147	479	135	22	13

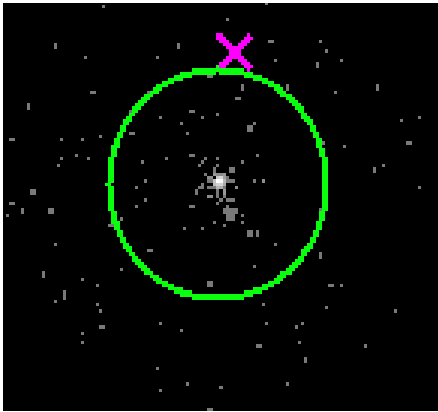




3.2 MEG Arm



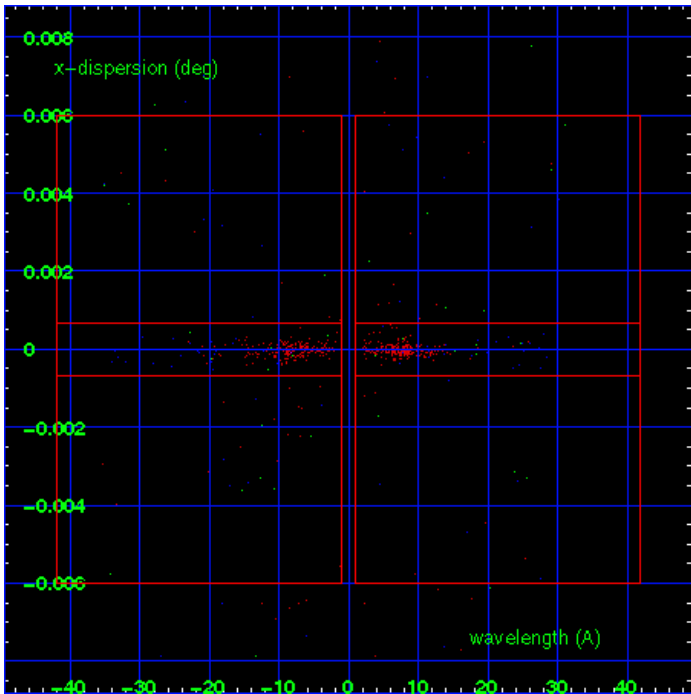
MEG Order Sort 123



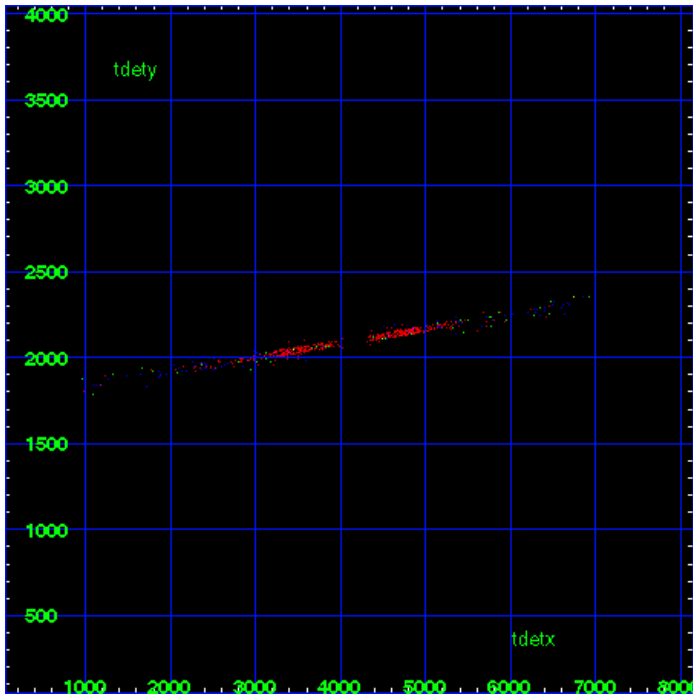
MEG Zero Order



MEG Order Sort ALL

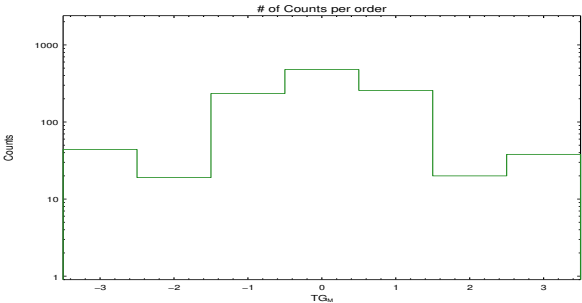


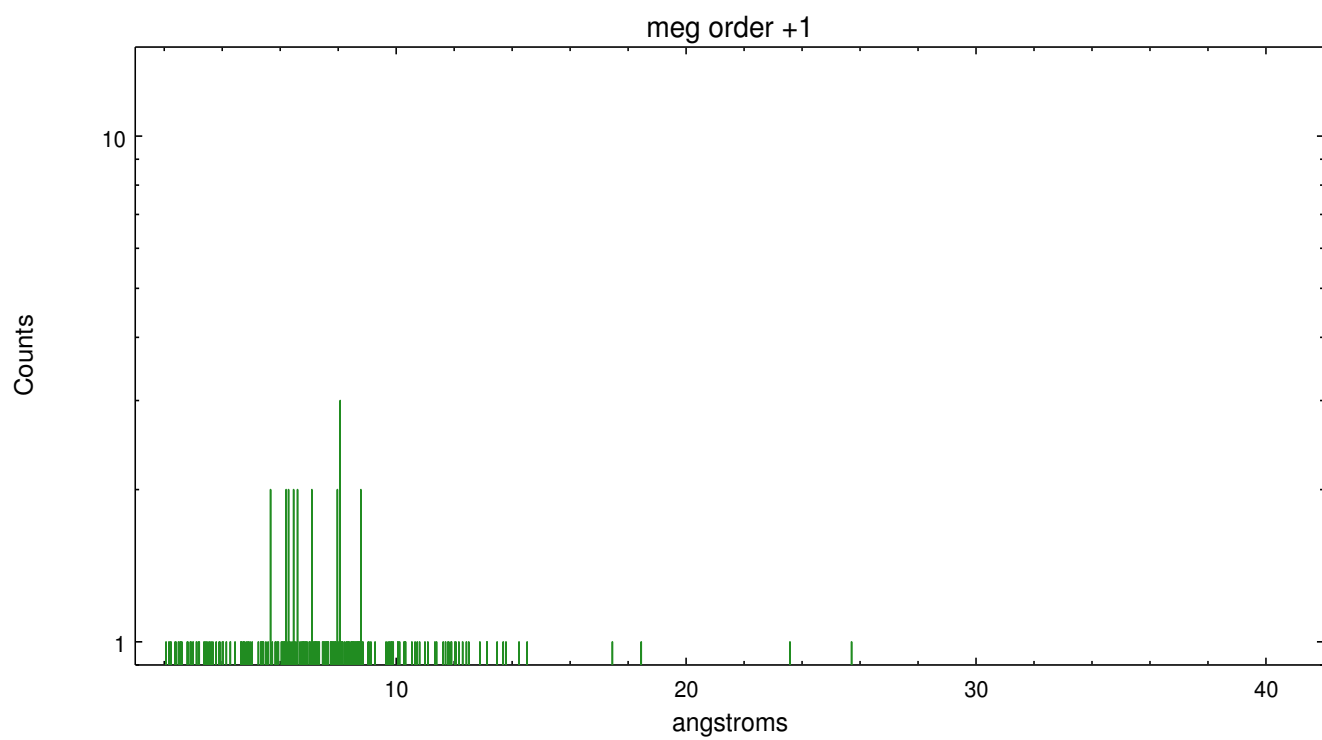
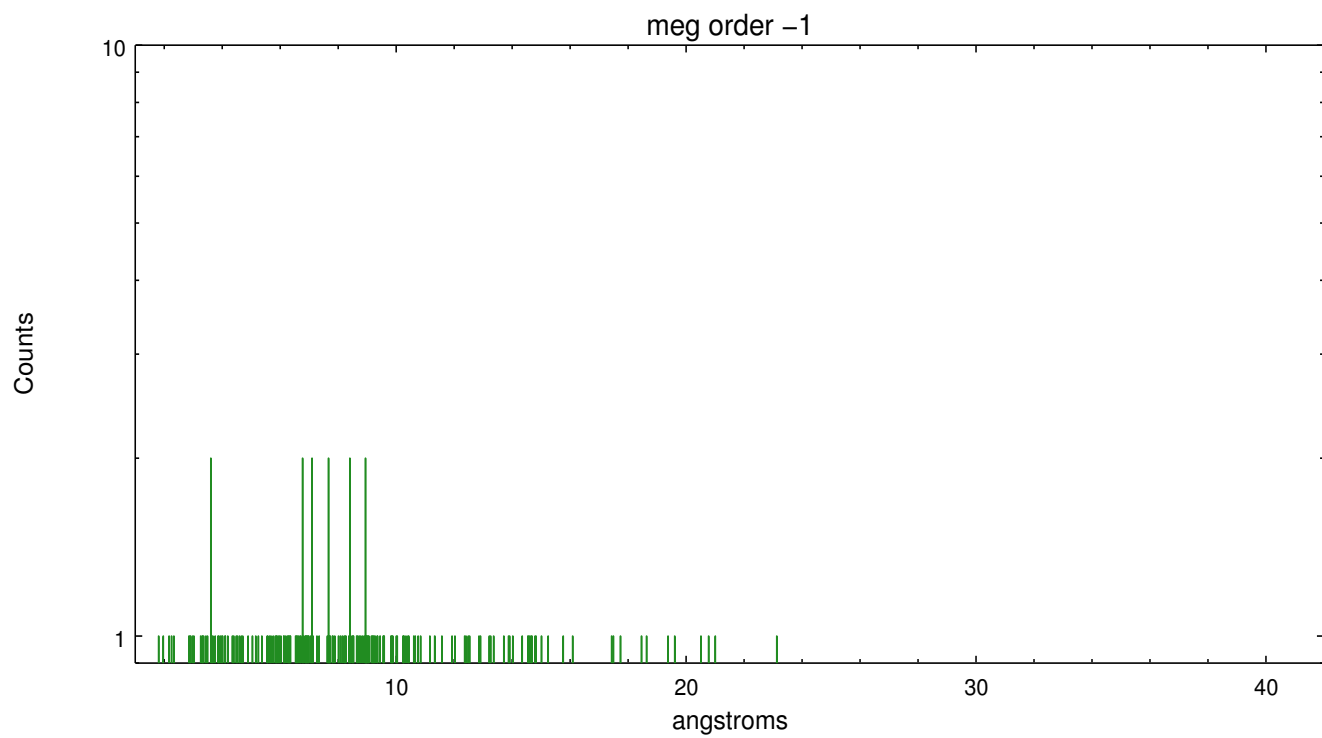
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	44	19	234	479	257	20	38





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0575

A.2 Comments