

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11888 - L2 Version 2
Chandra X-Ray Center

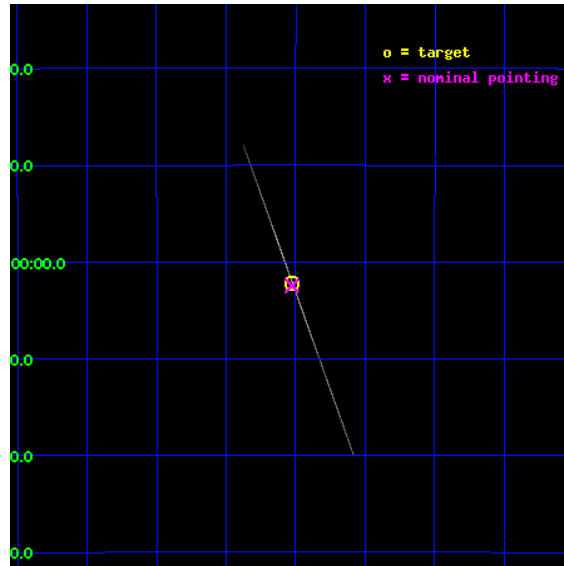
L2 Processing Date : Jun 30 2012

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1 Front

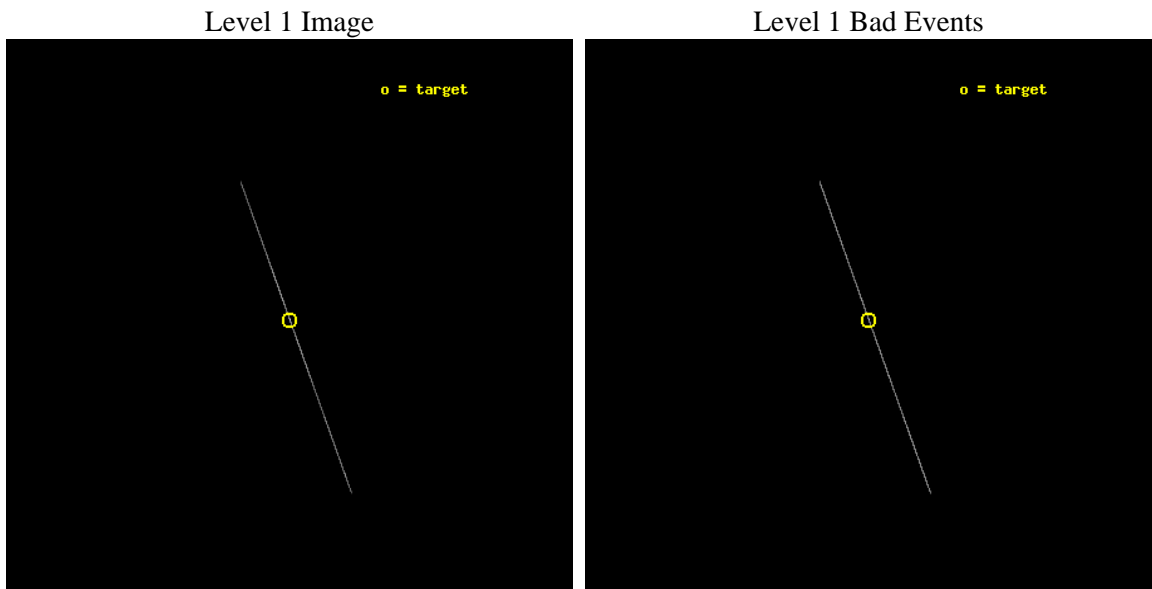
seq_num	401136	Sequence number
obs_id	11888	Observation id
title	Determining the Properties of Intervening Gas and Dust along the GX 17+2 Line-of-sight	Proposal title
observer	Dr. Jingen Xiang	Principal investigator
object	GX 17+2	Source name
ra_targ	274.005833	Observer's specified target RA [deg]
dec_targ	-14.036389	Observer's specified target Dec [deg]
ra_nom	274.00681869043	Nominal RA [deg]
dec_nom	-14.041147986765	Nominal Dec [deg]
roll_nom	250.15686968725	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4660.2064672112	Sum of GTIs [s]
livetime	4642.0025356987	Livetime [s]
ontime5	10127.75	Sum of GTIs [s]
ontime6	4082.2531496882	Sum of GTIs [s]
ontime7	4660.2064672112	Sum of GTIs [s]
ontime8	5067.2006466389	Sum of GTIs [s]
l2events	1230403	Number of level 2 events



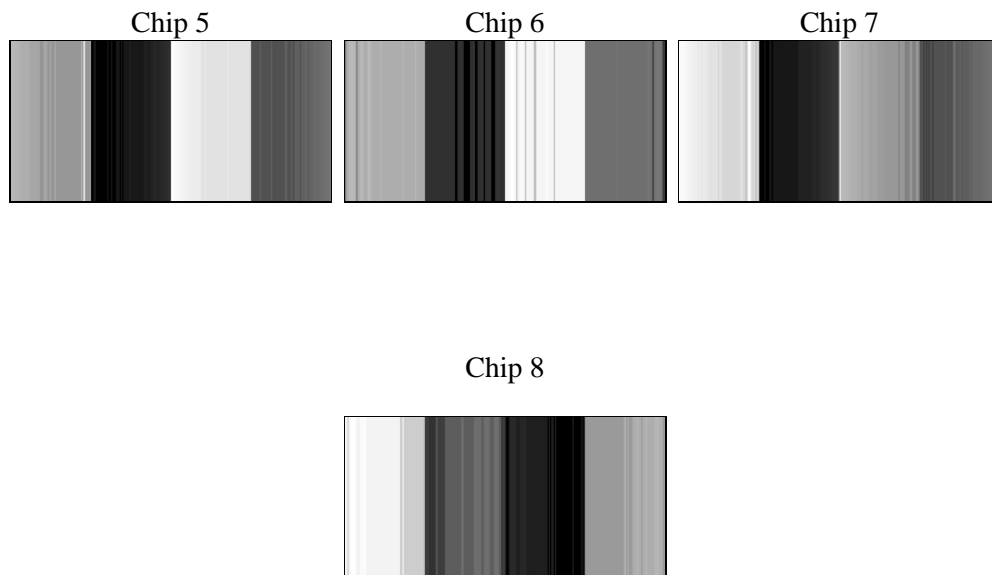
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4660.2064672112	Sum of GTIs [s]
caldsver	4.5.0	 	ontime5	10127.75	Sum of GTIs [s]
date	2012-06-30T13:57:30	Date and time of file creation	ontime6	4082.2531496882	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	4660.2064672112	Sum of GTIs [s]
			ontime8	5067.2006466389	Sum of GTIs [s]
			l1events	1820471	Number of level 1 events

2.1.4 Events

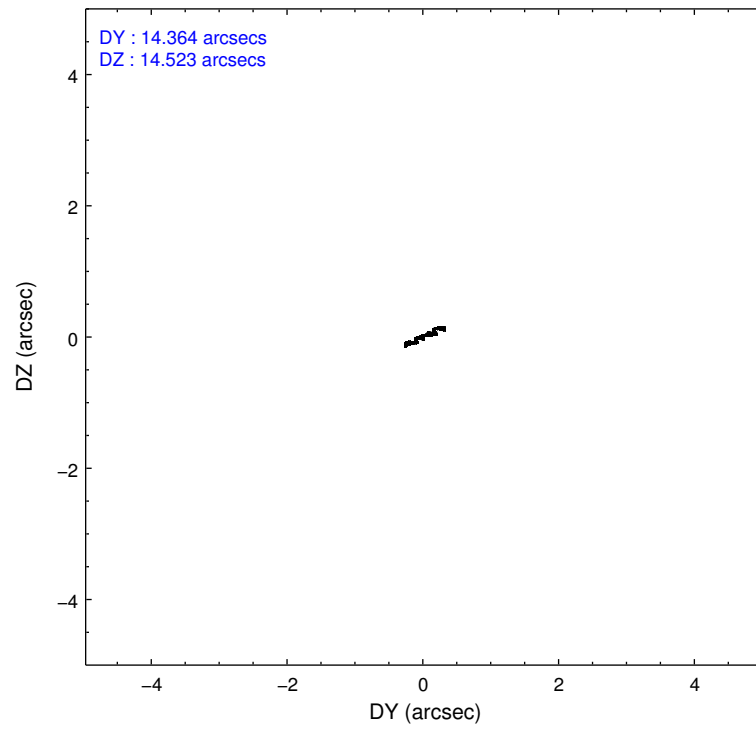
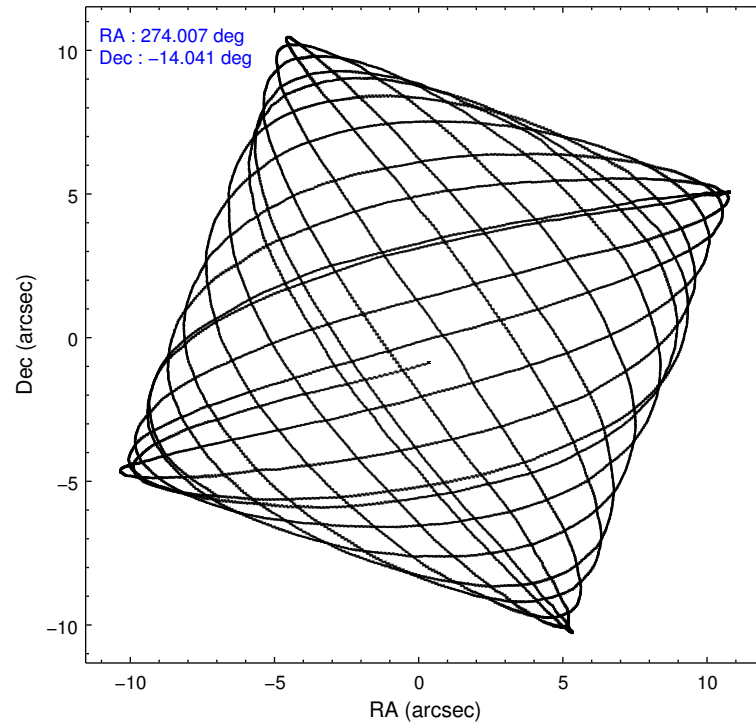
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	276538	362464	986079	195390
rejected events	109444	73879	227101	93004
rejected %	39%	20%	23%	47%

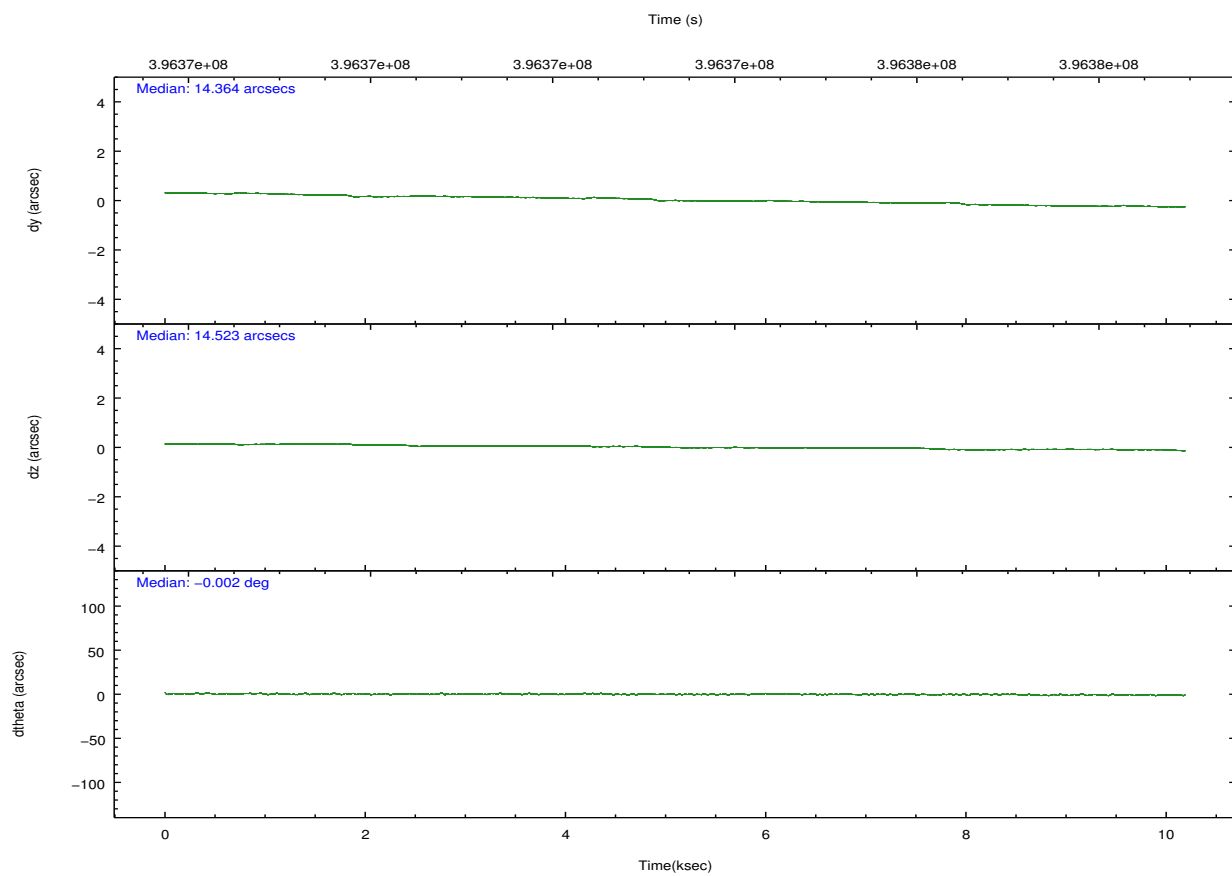
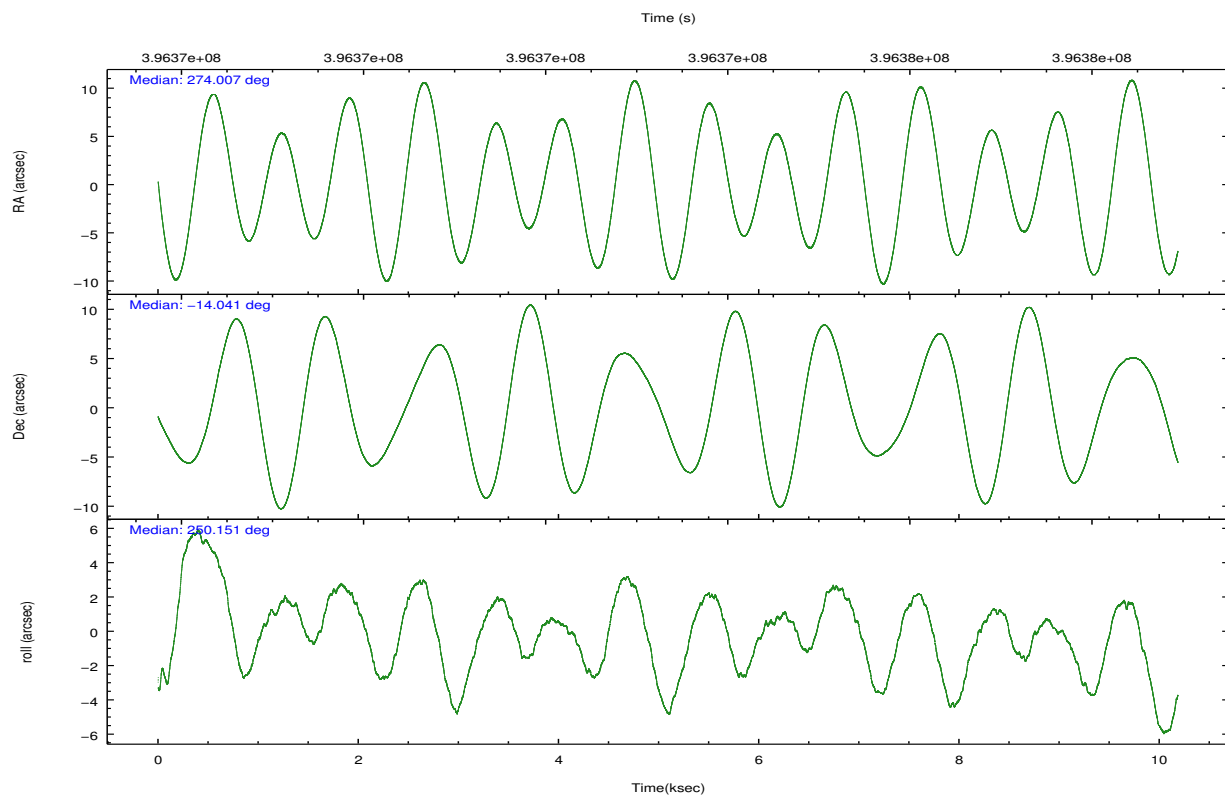
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	38887	66886	126013	52049
	14%	18%	12%	26%
grade 1 events	147	290	11182	245
	0%	0%	1%	0%
grade 2 events	61121	183055	203859	33279
	22%	50%	20%	17%
grade 3 events	5082	4168	68042	4145
	1%	1%	6%	2%
grade 4 events	4958	4276	67619	4145
	1%	1%	6%	2%
grade 5 events	8931	3288	50898	3040
	3%	0%	5%	1%
grade 6 events	57117	30240	293762	8779
	20%	8%	29%	4%
grade 7 events	100295	70261	164704	89708
	36%	19%	16%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	274.001513	274.0068186904288	Subarray requested	NONE	NONE
[deg] Pointing Dec	-14.014293	-14.04114798676455	Alternating exposures requested	N	N
[deg] Pointing Roll	249.998958	250.1568696872492	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.132523	-182.1370004450064			
[mm] SIM translation stage offset	-8	-7.995522138001405			
[s] Observation start time (MET)	396368444.184000	396367869.37272			
Observation start date	2010-07-24T14:19:38	2010-07-24T14:11:09			
[s] Observation end time (MET)	396378444.184000	396379303.76081			
Observation end date	2010-07-24T17:06:18	2010-07-24T17:21:43			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



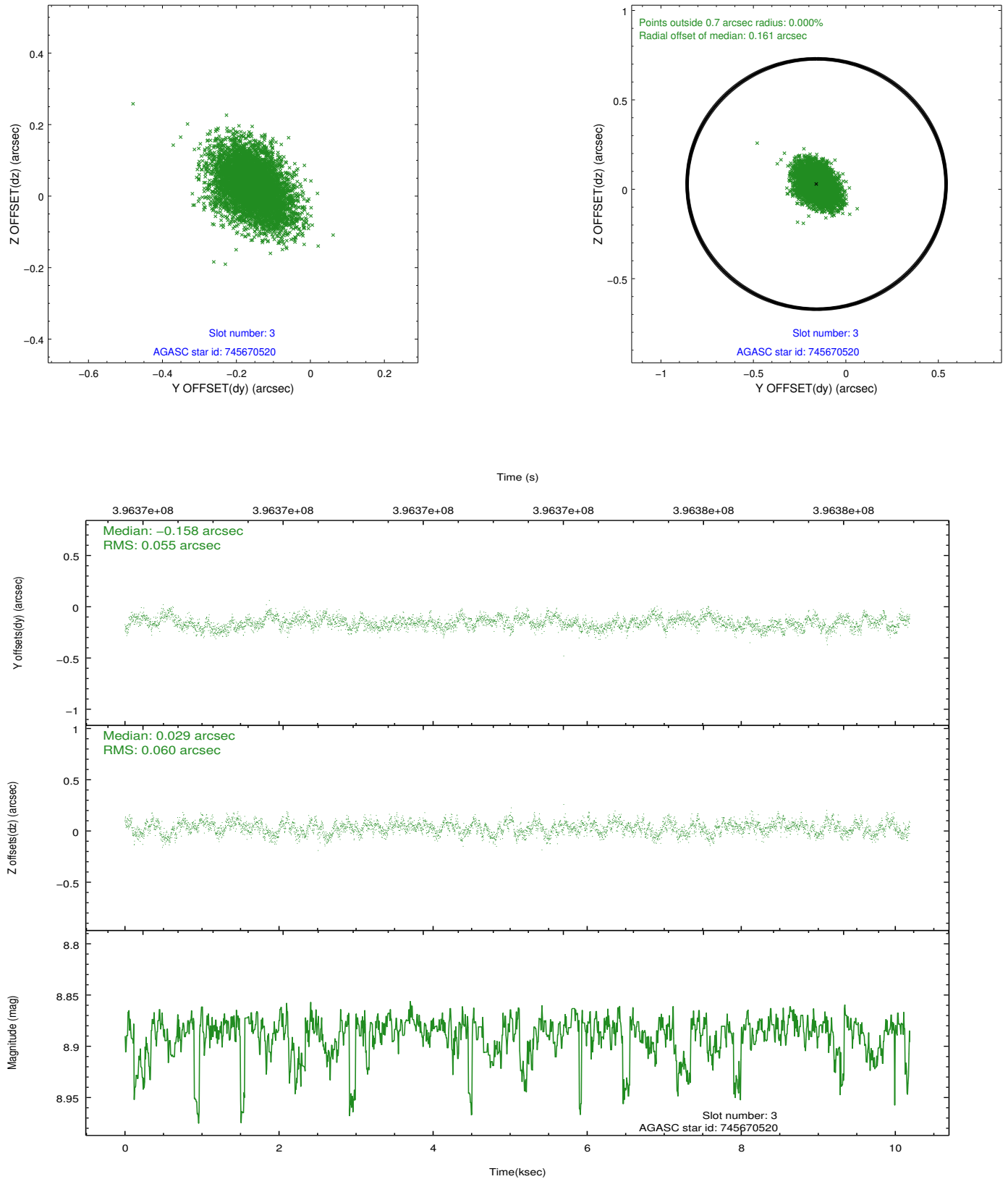


Slot Statistics

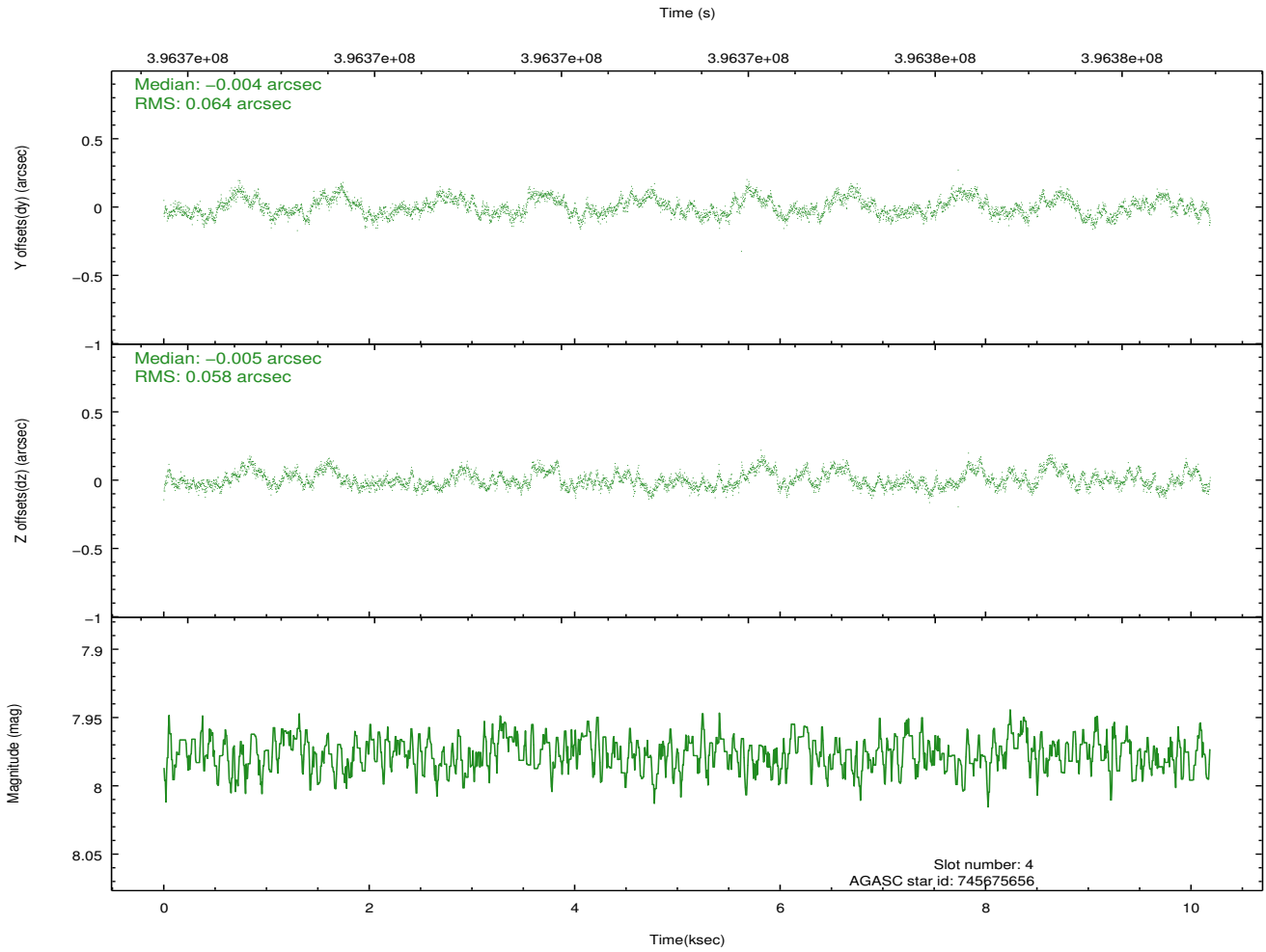
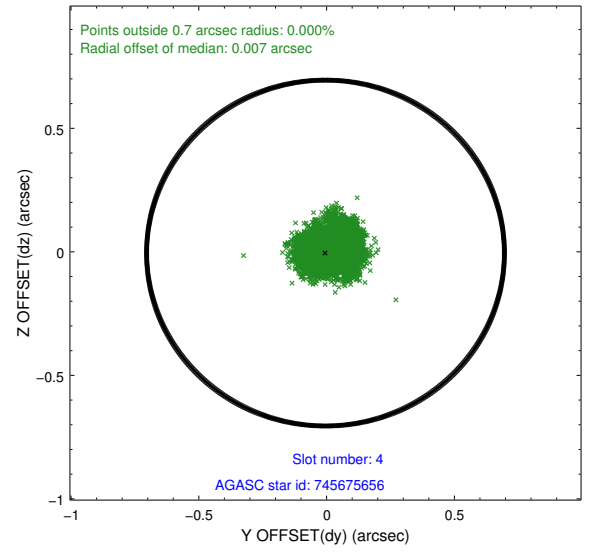
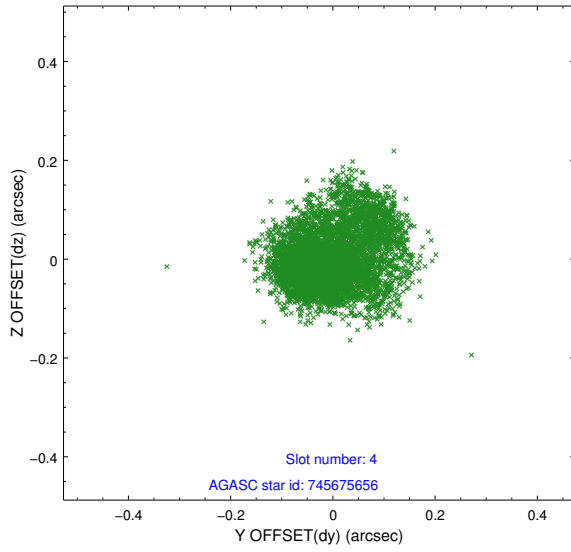
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	2485	-0.146	-0.083	0.009	0.016	0.000000	0.000000	-766.97	-1900.68
1	FID	ACIS-S-4	7.00	2485	0.136	0.097	0.009	0.014	0.000000	0.000000	2146.40	7.29
2	FID	ACIS-S-6	7.23	2485	-0.017	-0.008	0.009	0.017	0.000000	0.000000	395.88	645.22
3	GUIDE	745670520	8.89	4960	-0.158	0.029	0.087	0.142	274.614741	-13.988466	-817.76	1982.23
4	GUIDE	745675656	7.98	4969	-0.004	-0.005	0.093	0.148	274.656383	-13.977352	-904.80	2105.84
5	GUIDE	745676944	8.89	4969	0.016	0.036	0.091	0.148	274.121102	-14.245583	639.67	677.66
6	GUIDE	745678840	9.19	4965	0.051	0.003	0.093	0.152	274.156904	-14.659171	1996.76	1303.27
7	GUIDE	745680576	8.68	4968	0.085	-0.074	0.067	0.109	274.063292	-14.644899	2060.19	979.32

2.4 Star Slots

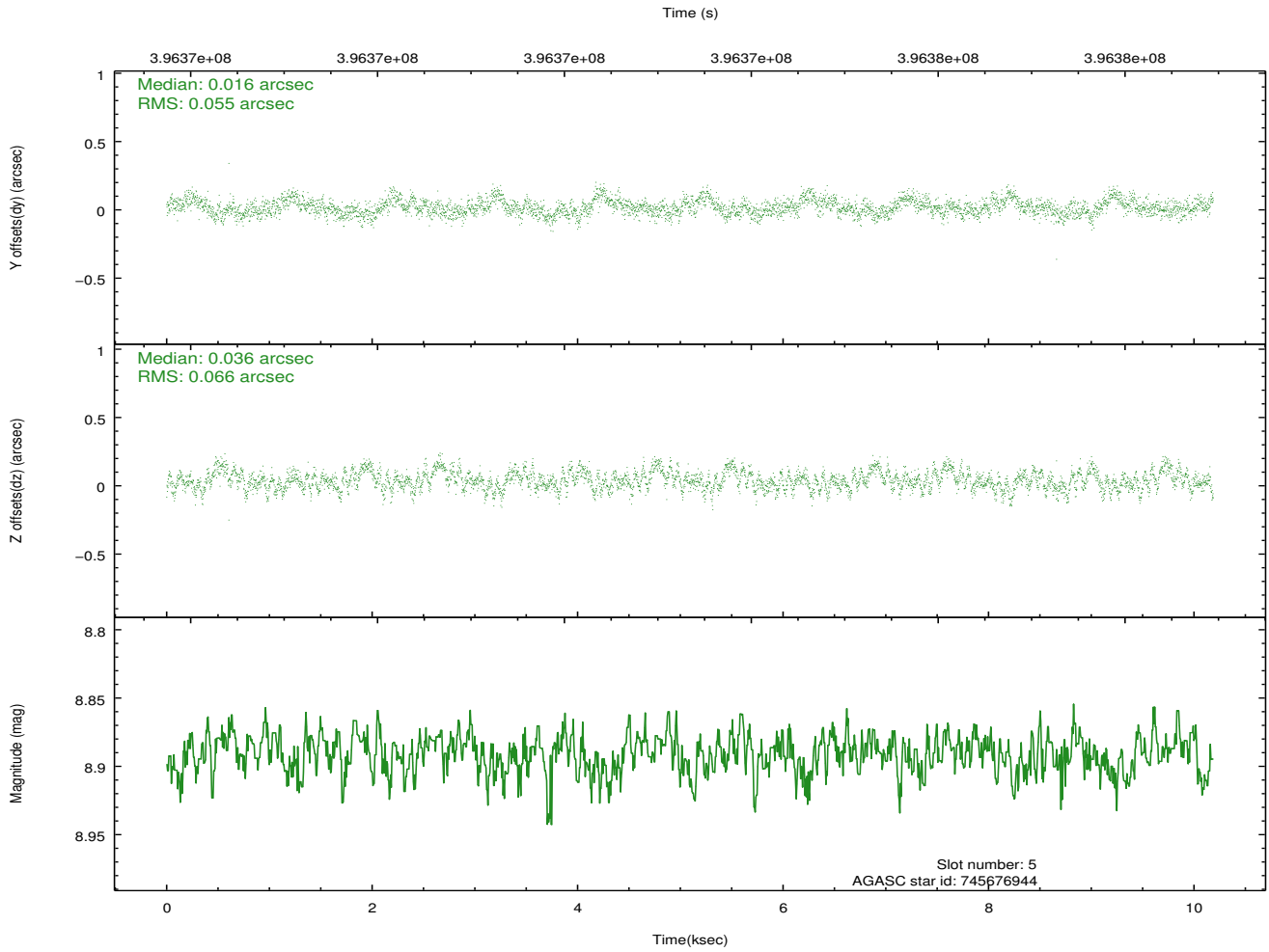
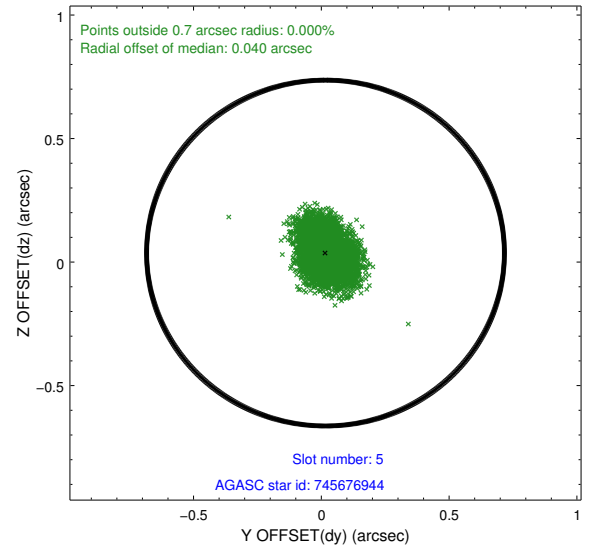
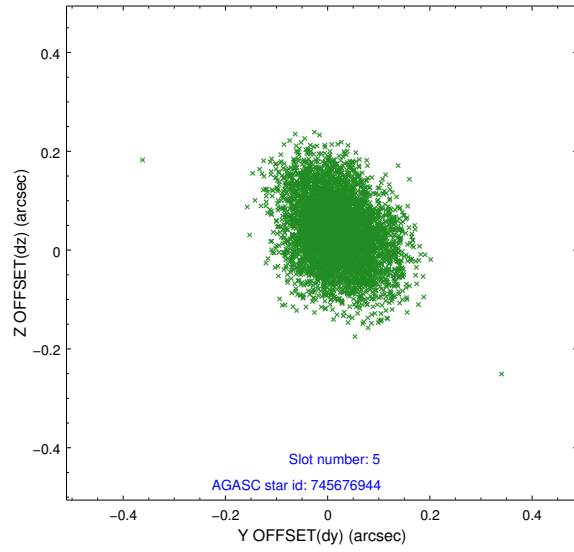
2.4.1 Slot 3



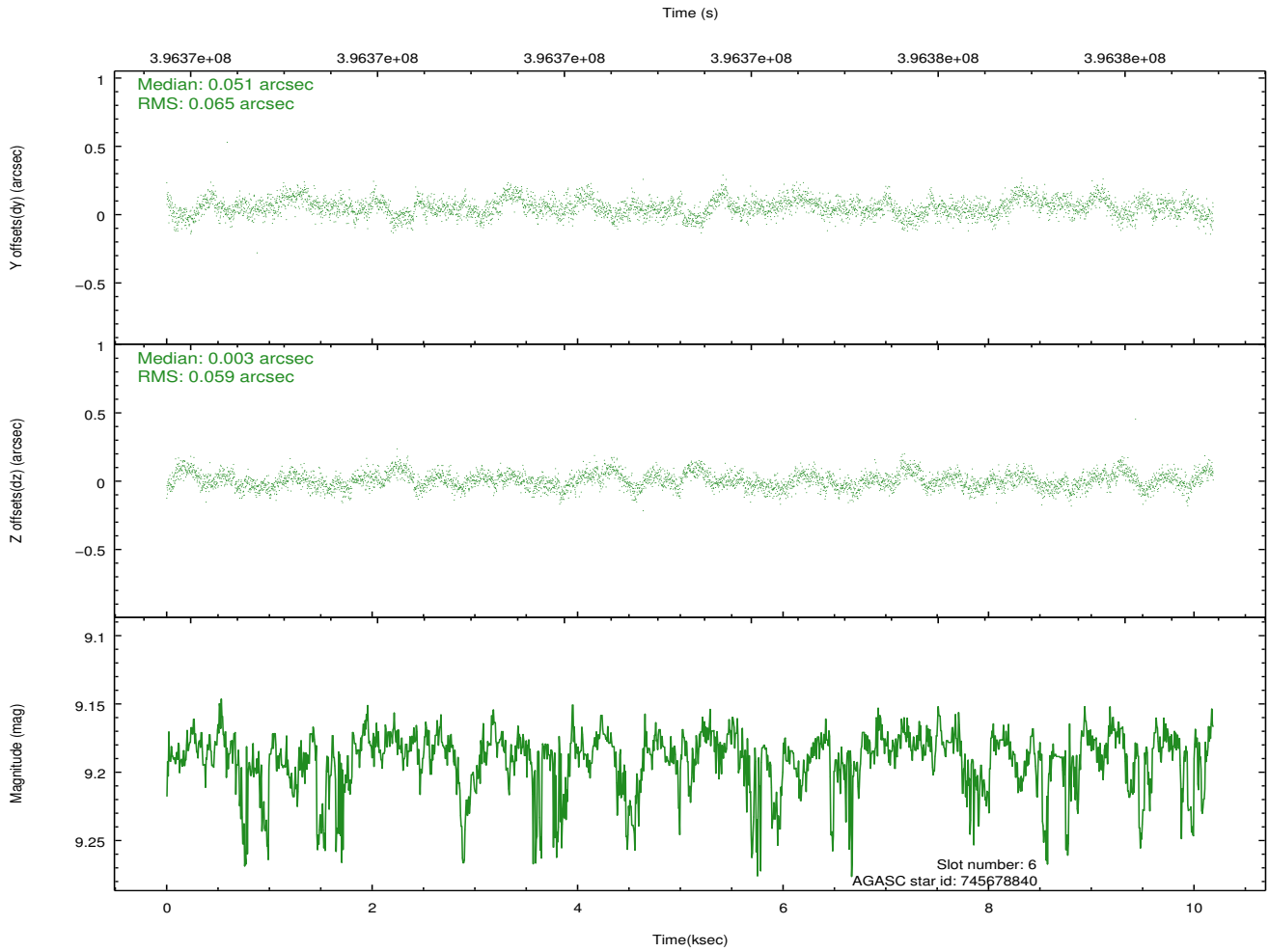
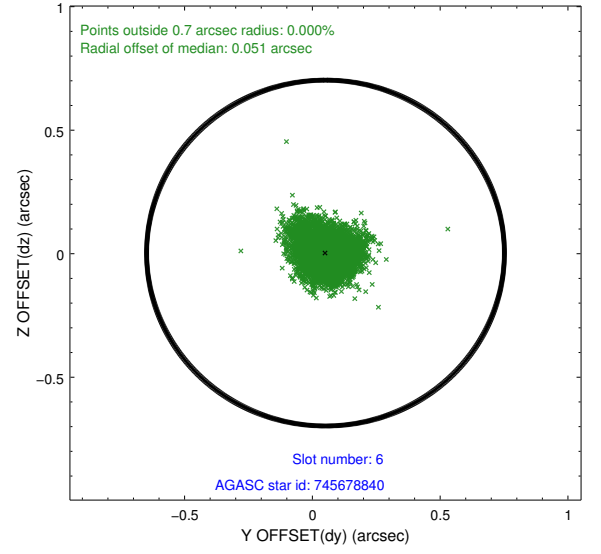
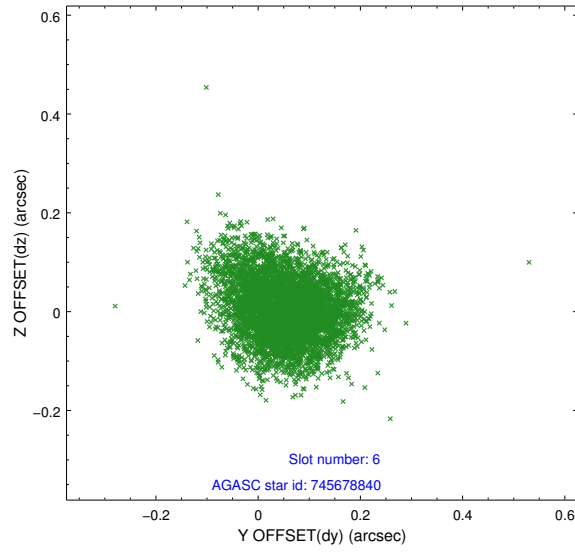
2.4.2 Slot 4



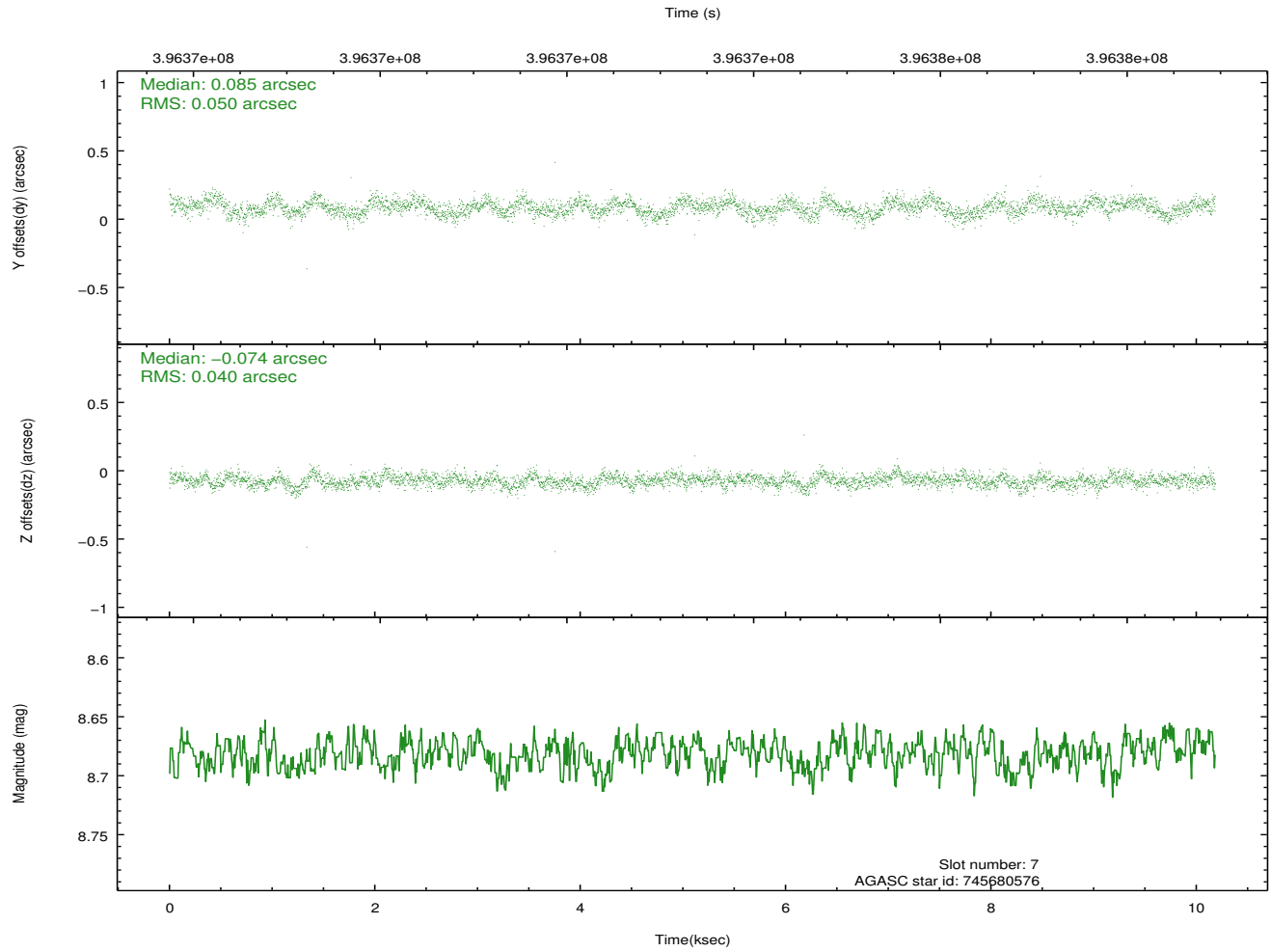
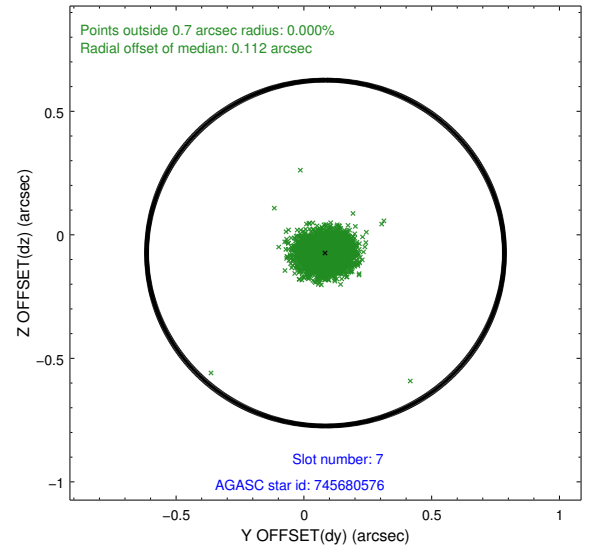
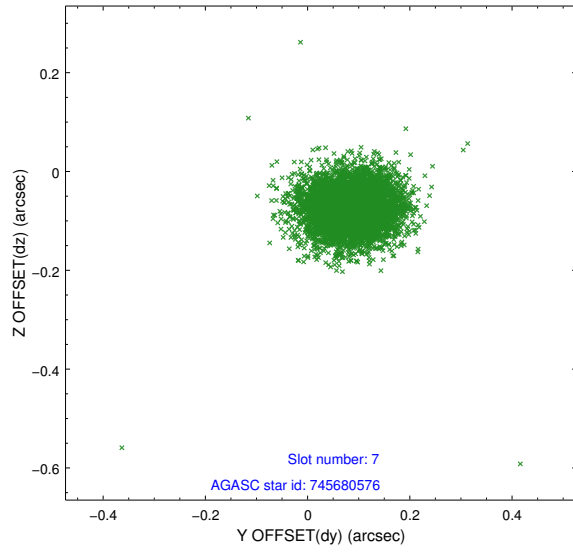
2.4.3 Slot 5



2.4.4 Slot 6

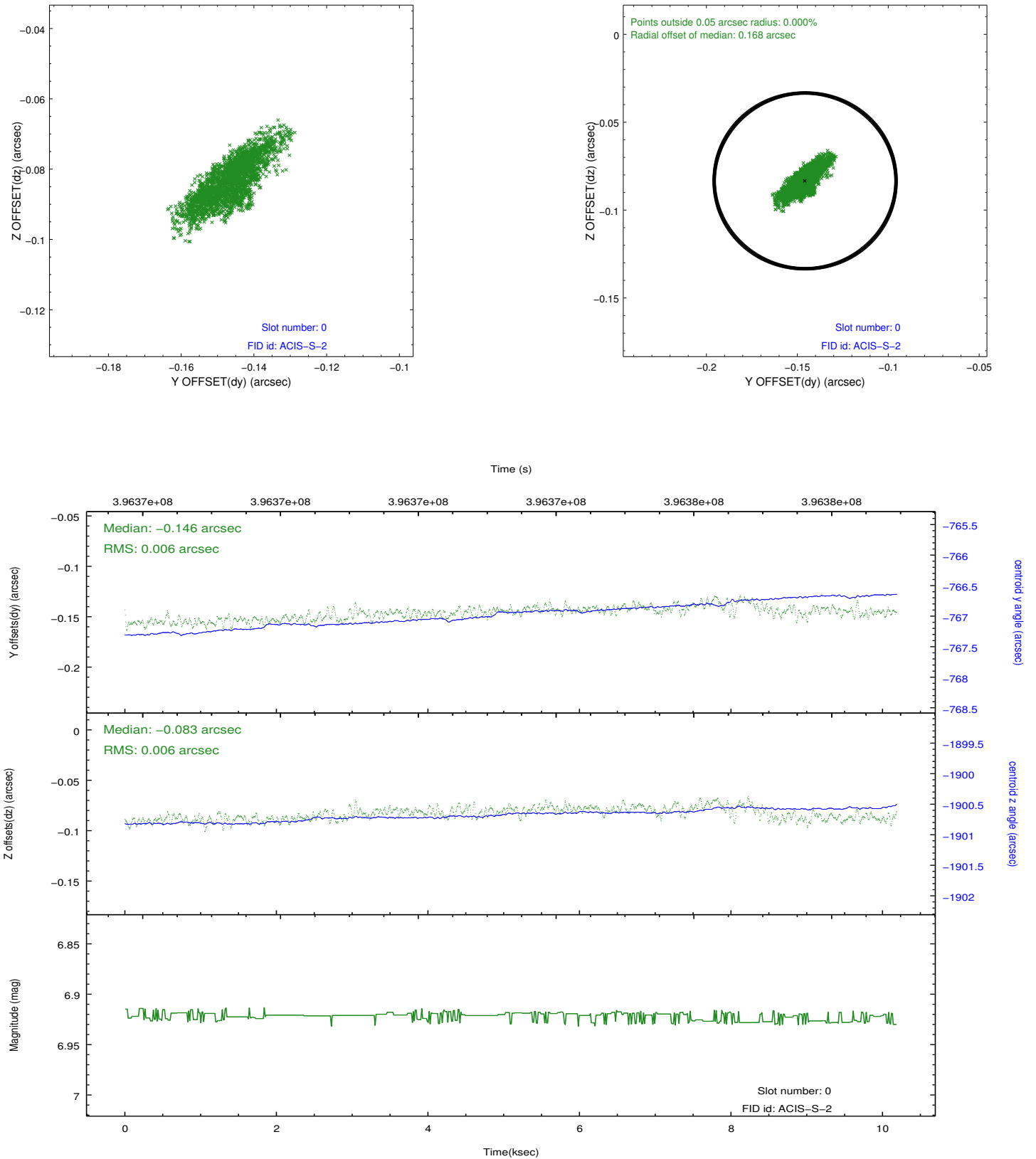


2.4.5 Slot 7

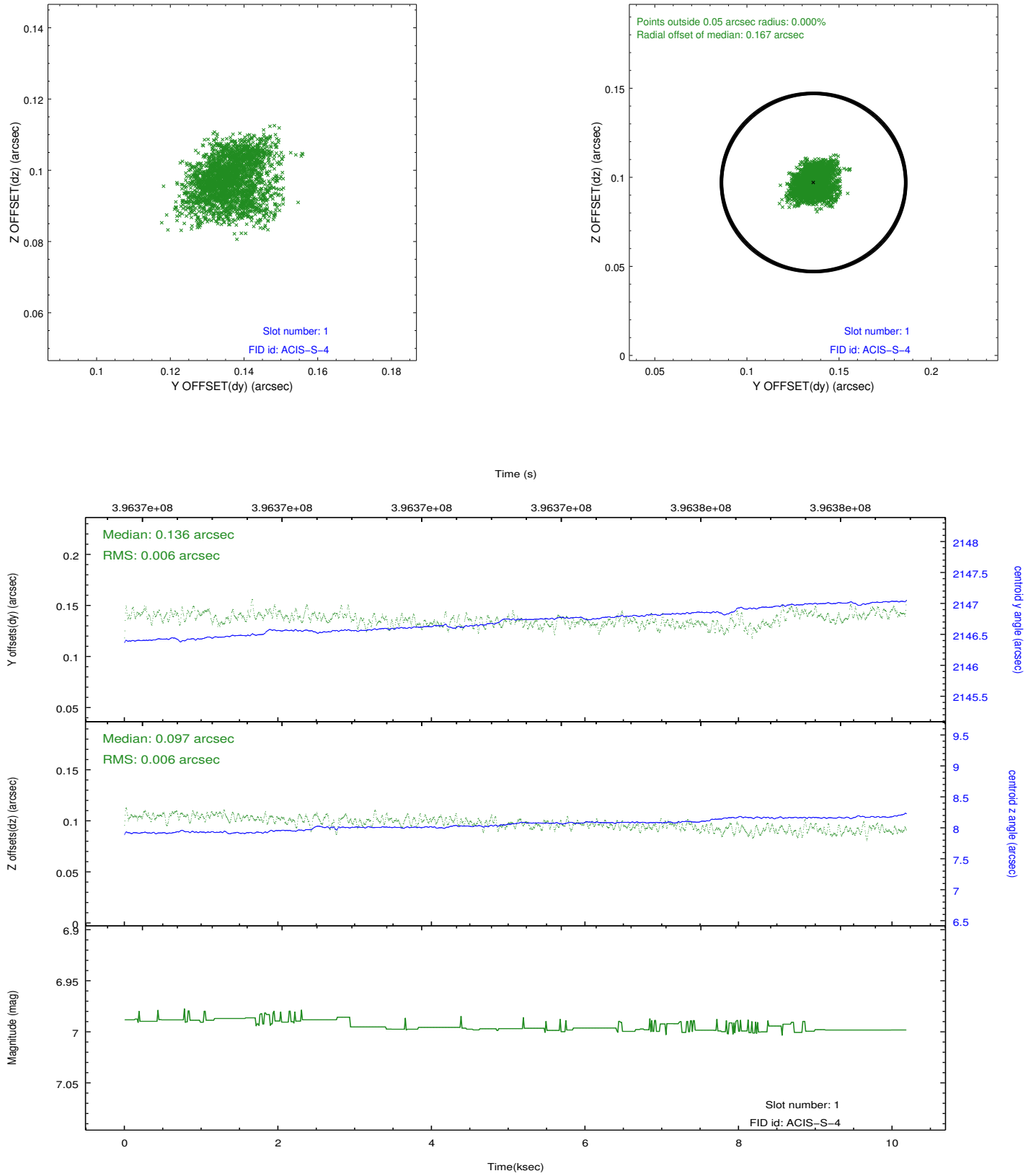


2.5 FID Slots

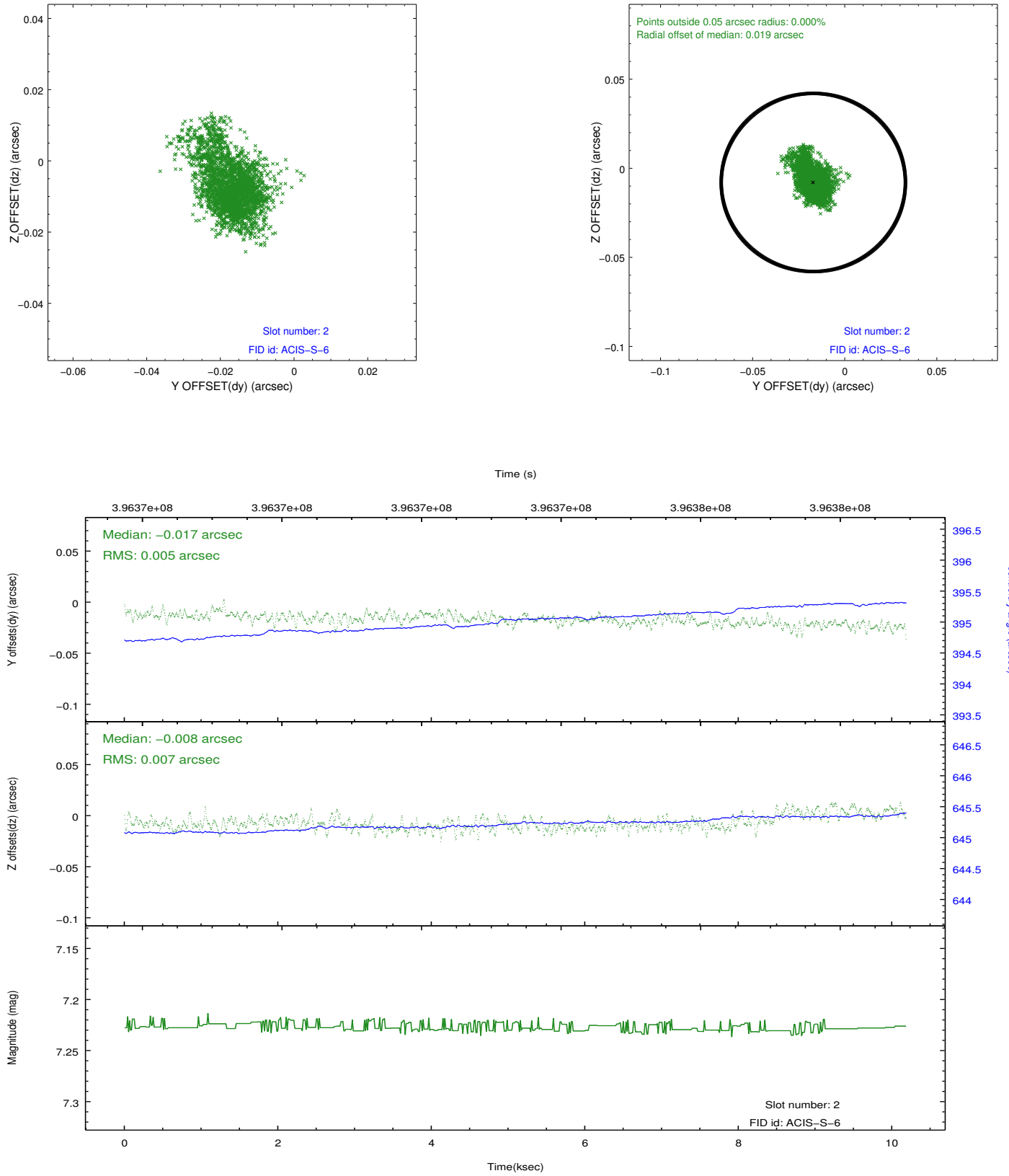
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Gratings

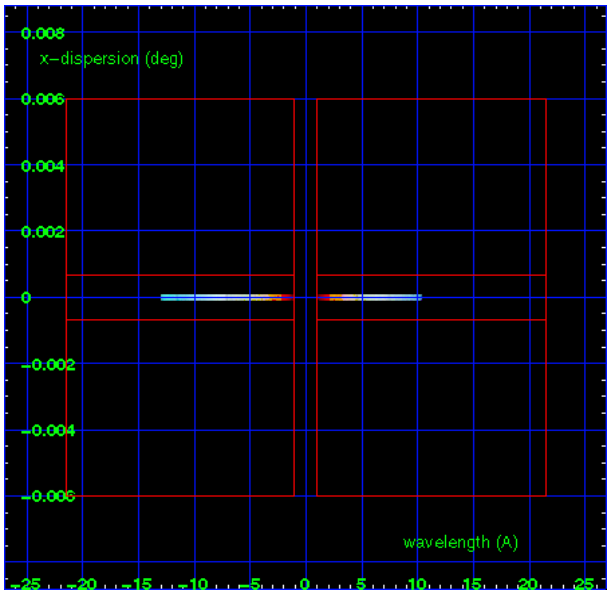
3.1 HEG Arm



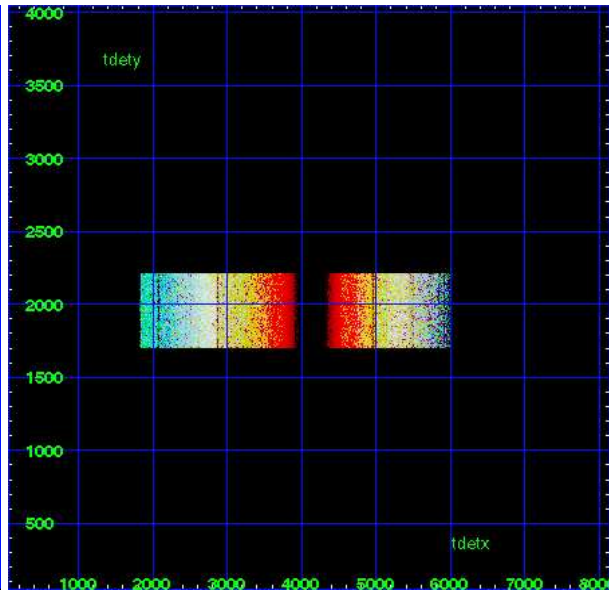
HEG Order Sort 123



HEG Order Sort ALL

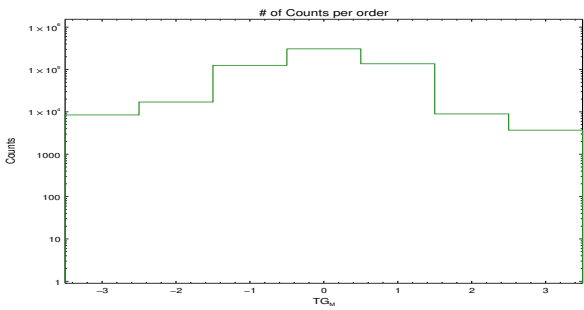


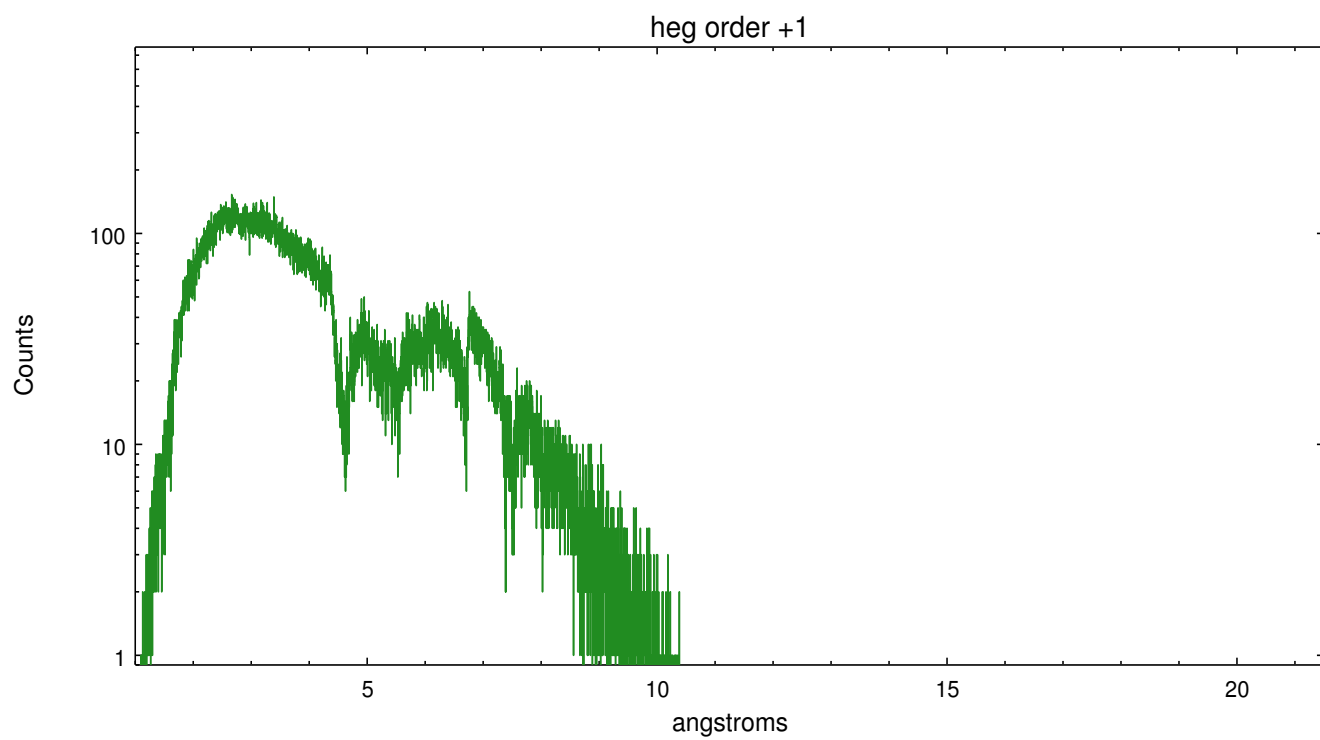
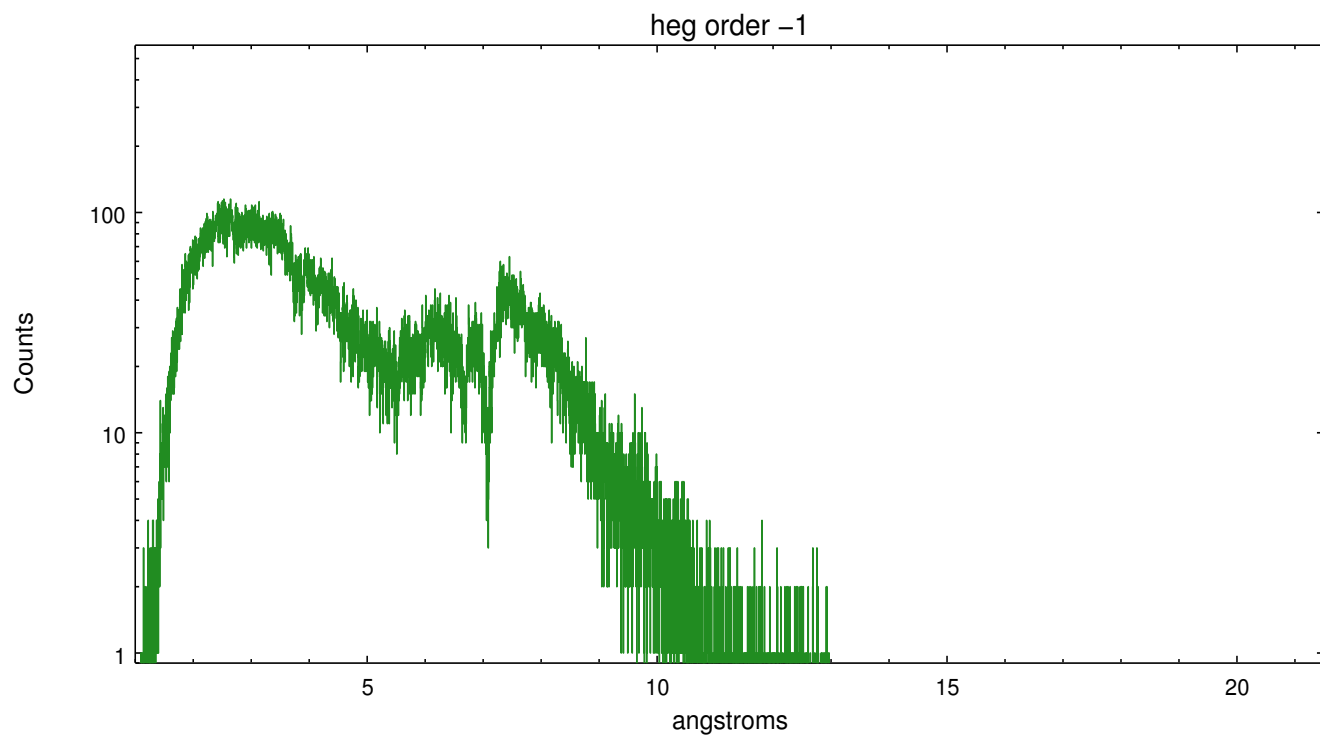
Spot Image HEG



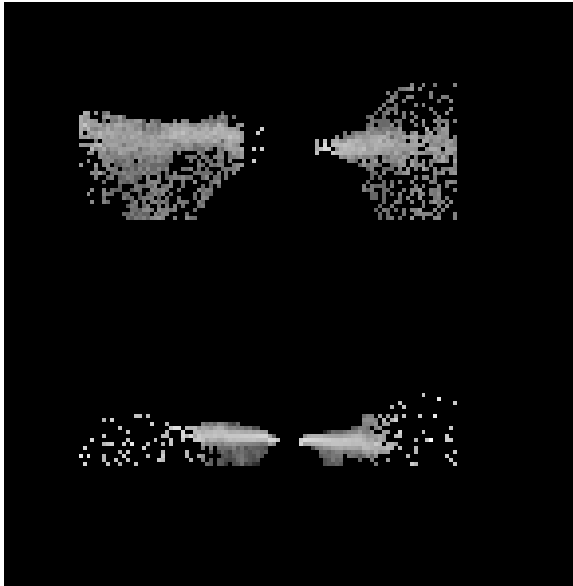
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	8458	17068	125264	307031	136445	8936	3695





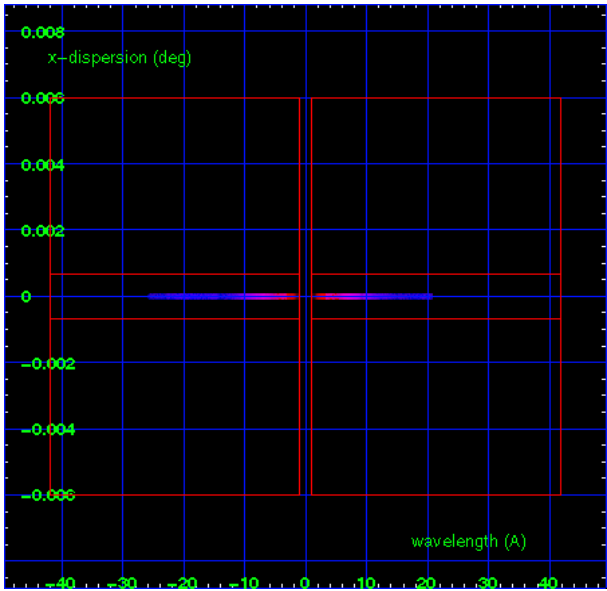
3.2 MEG Arm



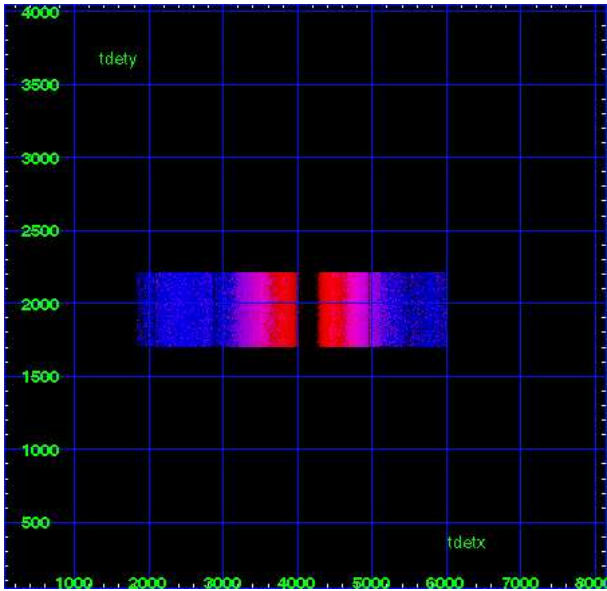
MEG Order Sort 123



MEG Order Sort ALL

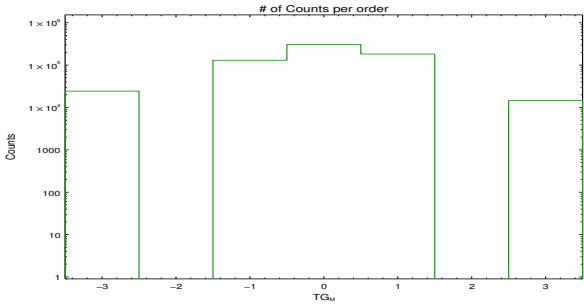


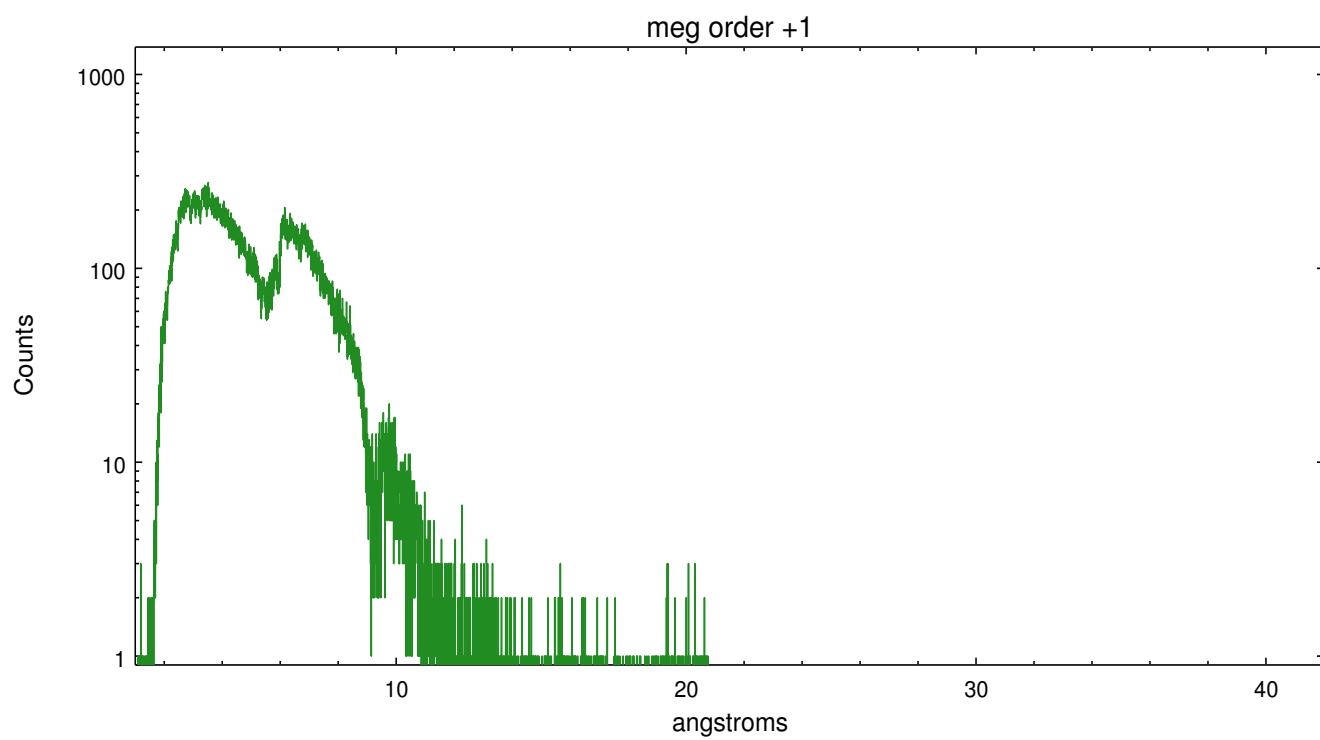
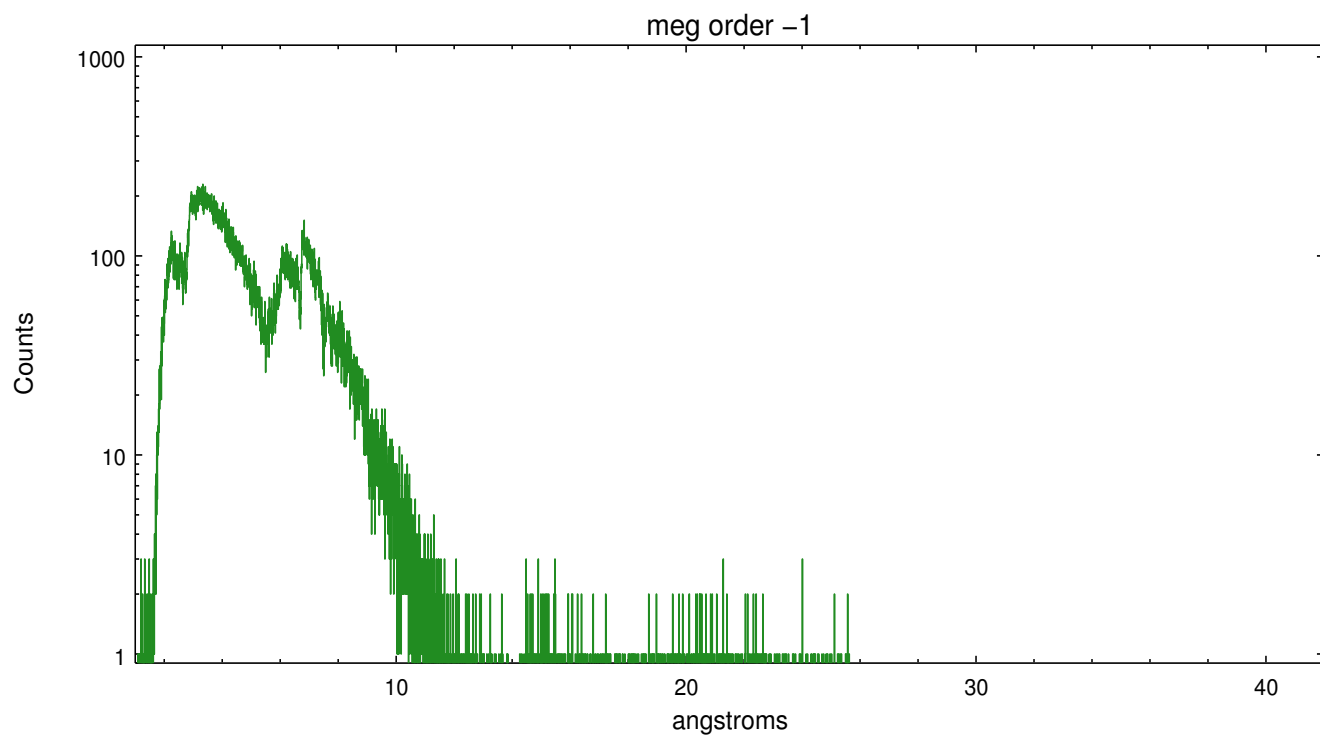
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	24335	0	130293	307031	182794	0	14542





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.128

A.2 Comments