

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 101 - L2 Version 3

Chandra X-Ray Center

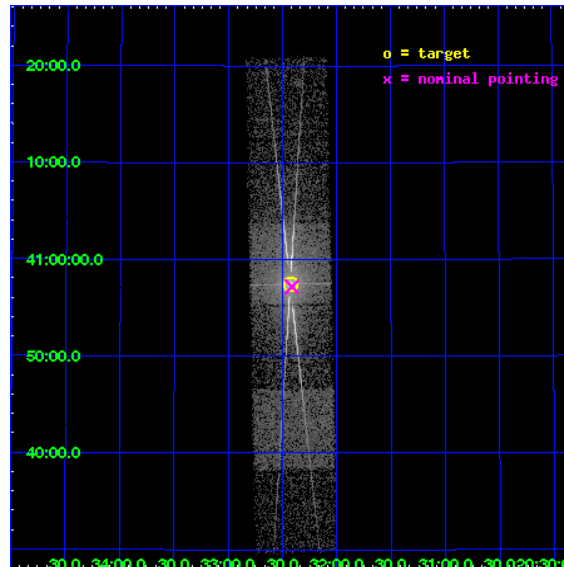
L2 Processing Date : Nov 20 2009

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1 Front

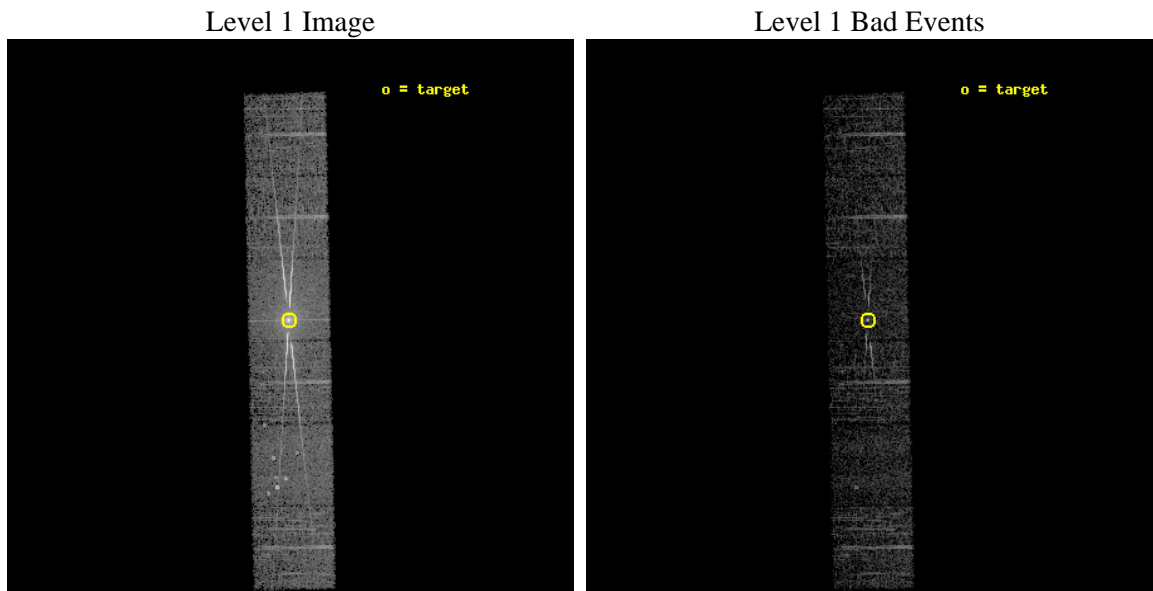
seq_num	400014	Sequence number
obs_id	101	Observation id
title	OBSERVATIONS OF ACTIVE, COMPACT, LOW-MASS X-RAY BINARIES WITH LETGS	
observer	DR. ALBERT BRINKMAN	Principal investigator
object	CYG X-3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.10625	Observer's specified target RA
dec_targ	40.957694	Observer's specified target Dec
ra_nom	308.10352708716	Nominal RA
dec_nom	40.952990687097	Nominal Dec
roll_nom	268.82125971231	Nominal Roll
revision	3	Processing version of data
ontime	1974.4000018388	Sum of GTIs [s]
livetime	1949.3989601746	Livetime [s]
ontime4	1974.3486287296	Sum of GTIs [s]
ontime5	1974.3896687254	Sum of GTIs [s]
ontime6	1974.2255087271	Sum of GTIs [s]
ontime7	1974.4000018388	Sum of GTIs [s]
ontime8	1974.3075887263	Sum of GTIs [s]
ontime9	1974.2665487304	Sum of GTIs [s]
l2events	91977	Number of level 2 events



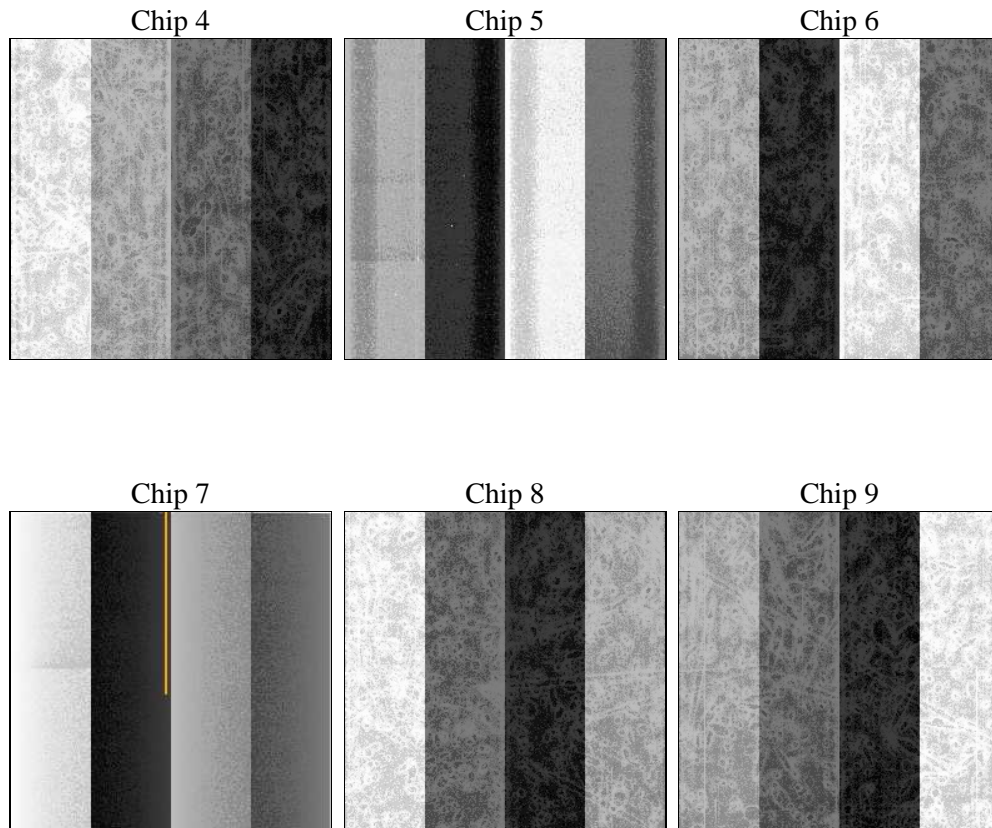
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3020.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	1974.4000018388	Sum of GTIs [s]
caldsver	4.1.4	 	ontime4	1974.3486287296	Sum of GTIs [s]
date	2009-11-20T11:01:32	Date and time of file creation	ontime5	1974.3896687254	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1974.2255087271	Sum of GTIs [s]
			ontime7	1974.4000018388	Sum of GTIs [s]
			ontime8	1974.3075887263	Sum of GTIs [s]
			ontime9	1974.2665487304	Sum of GTIs [s]
			l1events	195774	Number of level 1 events

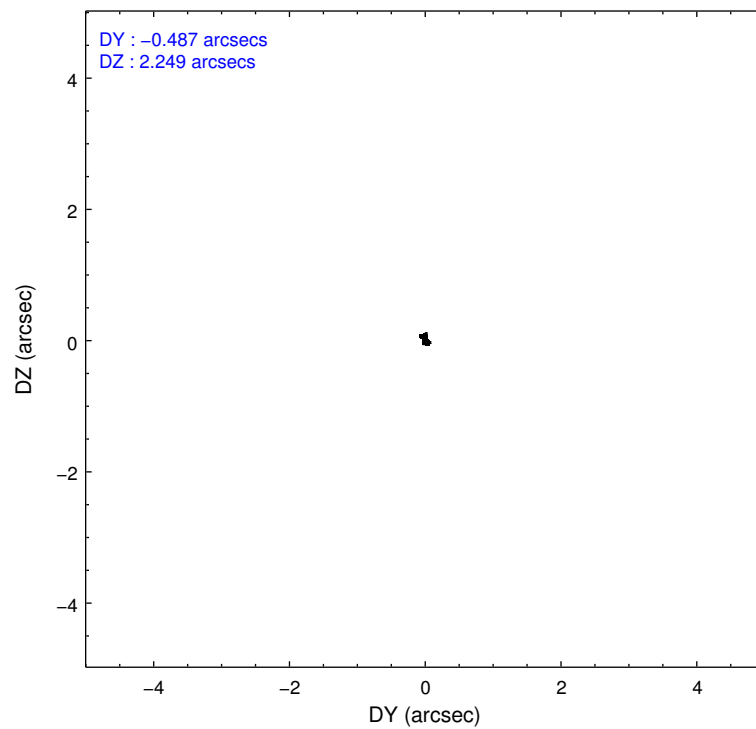
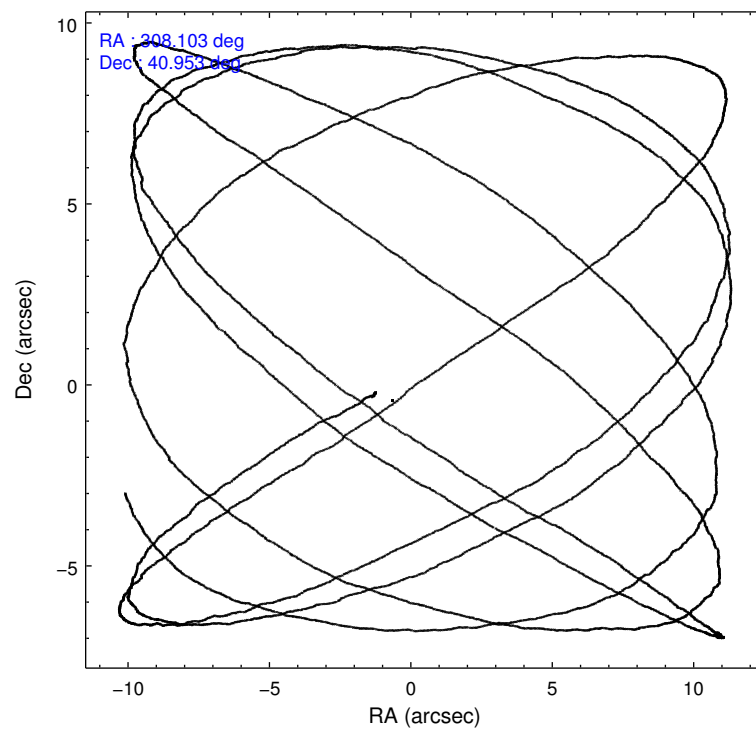
2.1.4 Events

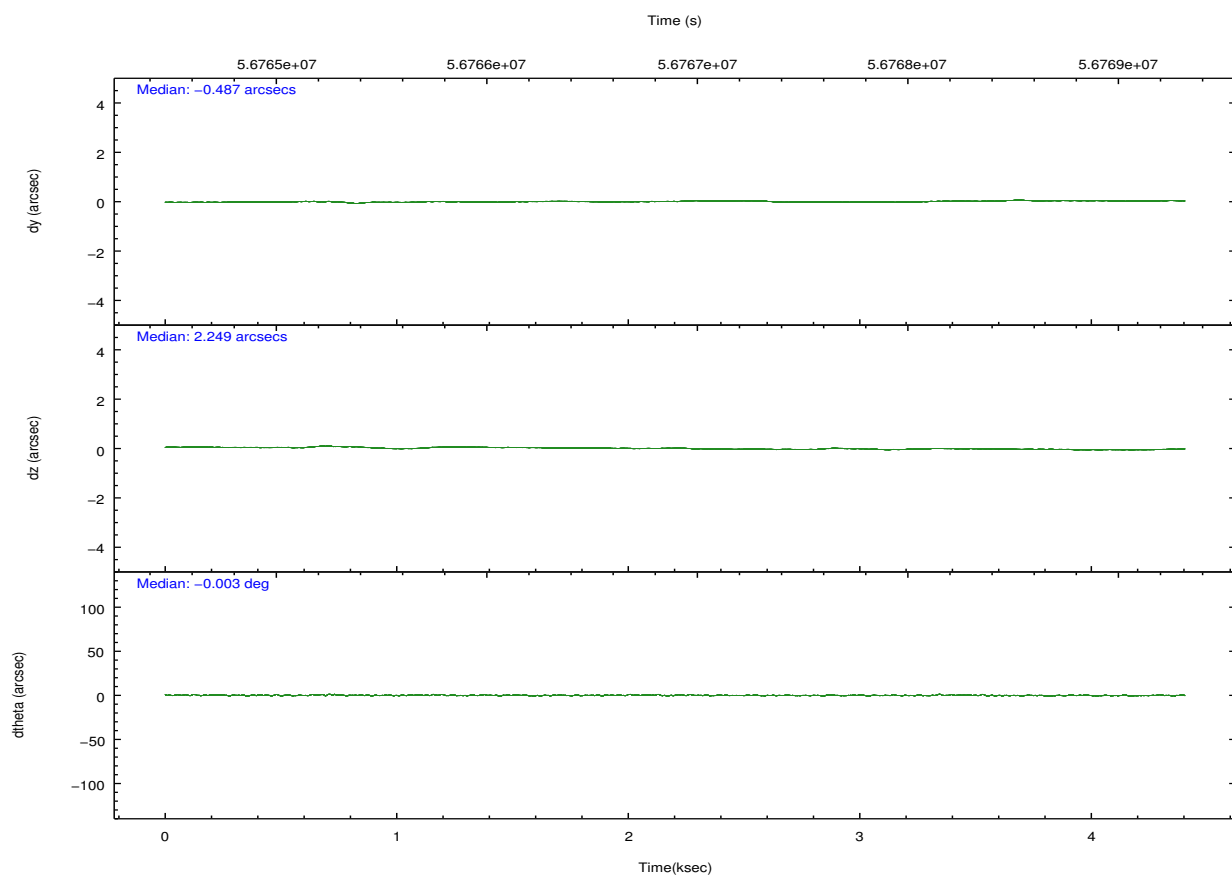
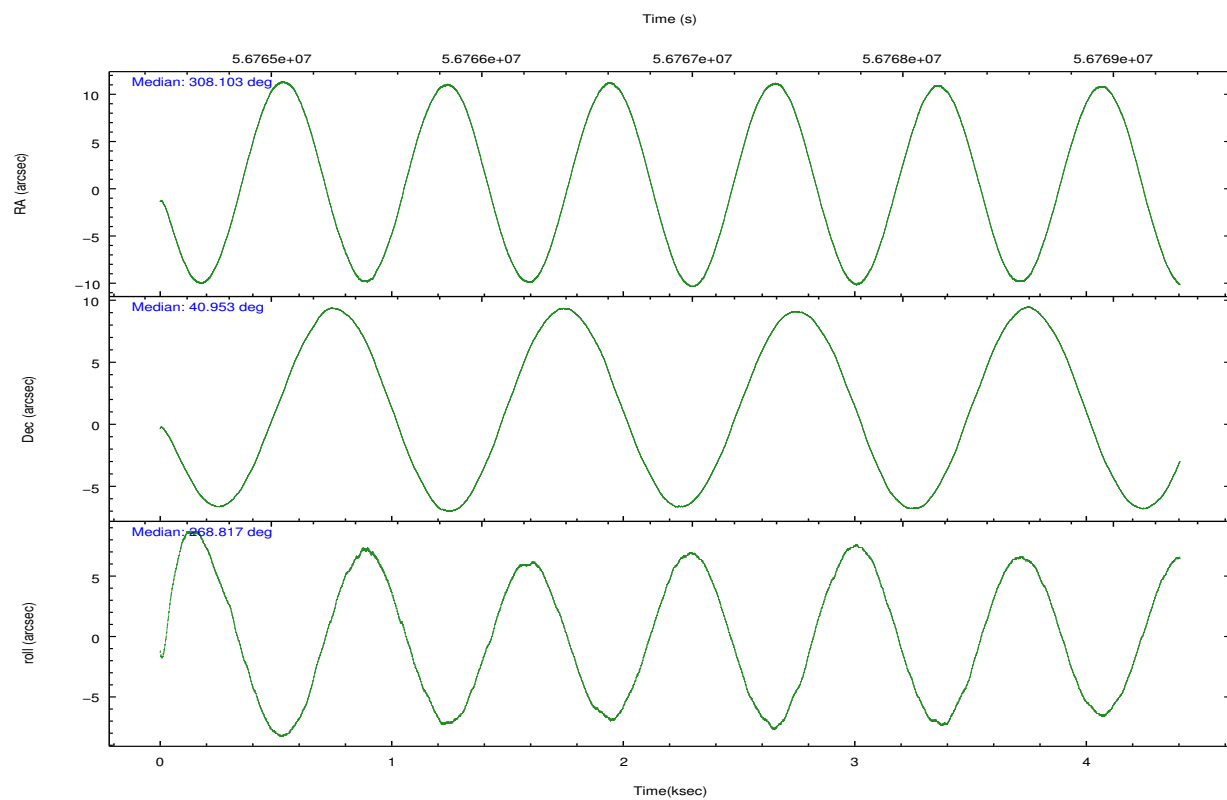
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	21480	25282	40911	63183	26081	18837	grade 0 events	499	2454	7651	7044	4147	1065
rejected events	19177	12802	18088	14917	17472	15826		2%	9%	18%	11%	15%	5%
rejected %	89%	50%	44%	23%	66%	84%	grade 1 events	5	105	84	116	25	9
								0%	0%	0%	0%	0%	0%
							grade 2 events	1116	3142	11324	12579	2338	1105
								5%	12%	27%	19%	8%	5%
							grade 3 events	109	439	539	4393	473	141
								0%	1%	1%	6%	1%	0%
							grade 4 events	89	381	580	3916	417	155
								0%	1%	1%	6%	1%	0%
							grade 5 events	292	877	714	1968	533	384
								1%	3%	1%	3%	2%	2%
							grade 6 events	495	6105	2808	20473	1256	554
								2%	24%	6%	32%	4%	2%
							grade 7 events	18875	11779	17211	12694	16892	15424
								87%	46%	42%	20%	64%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	308.086106	308.1035270871603	Subarray requested	NONE	NONE
Pointing Dec	40.977386	40.95299068709715	Alternating exposures requested	N	N
Pointing Roll	268.676049	268.8212597123051	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.145094680475			
SIM translation stage offset (mm)	0	0.01257209746719923			
Observation start time	56765175.184000	56764330.132364			
Observation start date	1999-10-20T00:05:11	1999-10-19T23:52:10			
Observation end time	56768195.184000	56769098.432536			
Observation end date	1999-10-20T00:55:31	1999-10-20T01:11:38			
Read mode	TIMED	TIMED			

2.3 Aspect



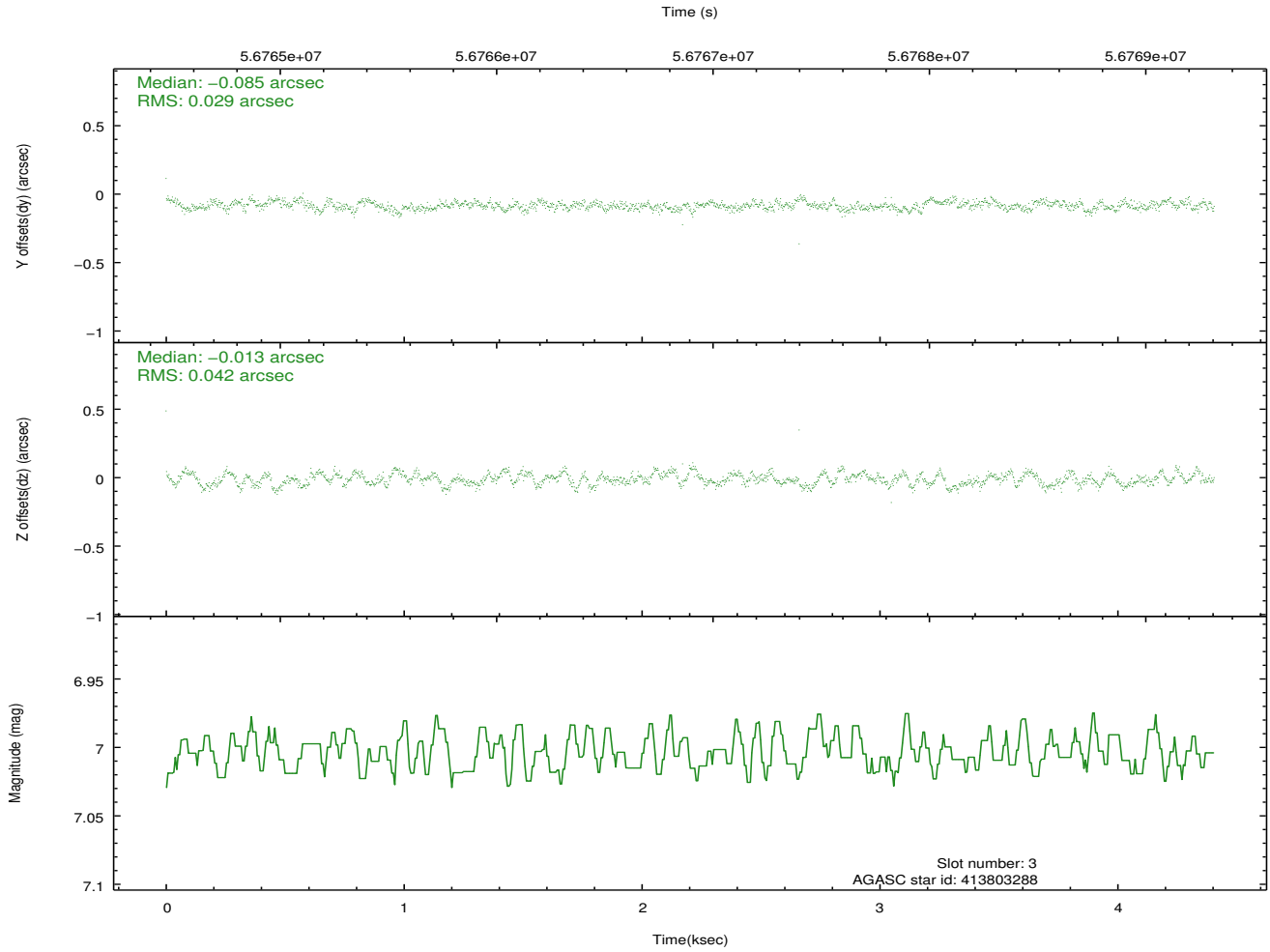
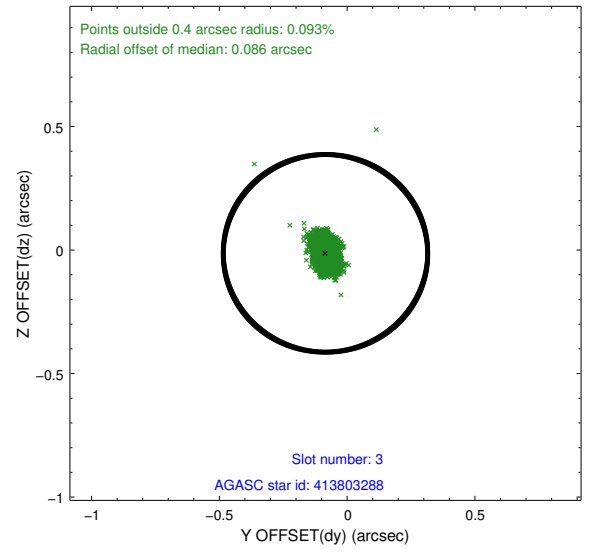
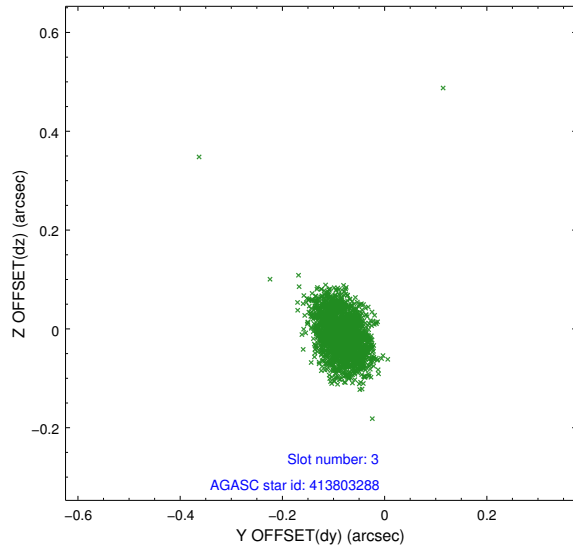


Slot Statistics

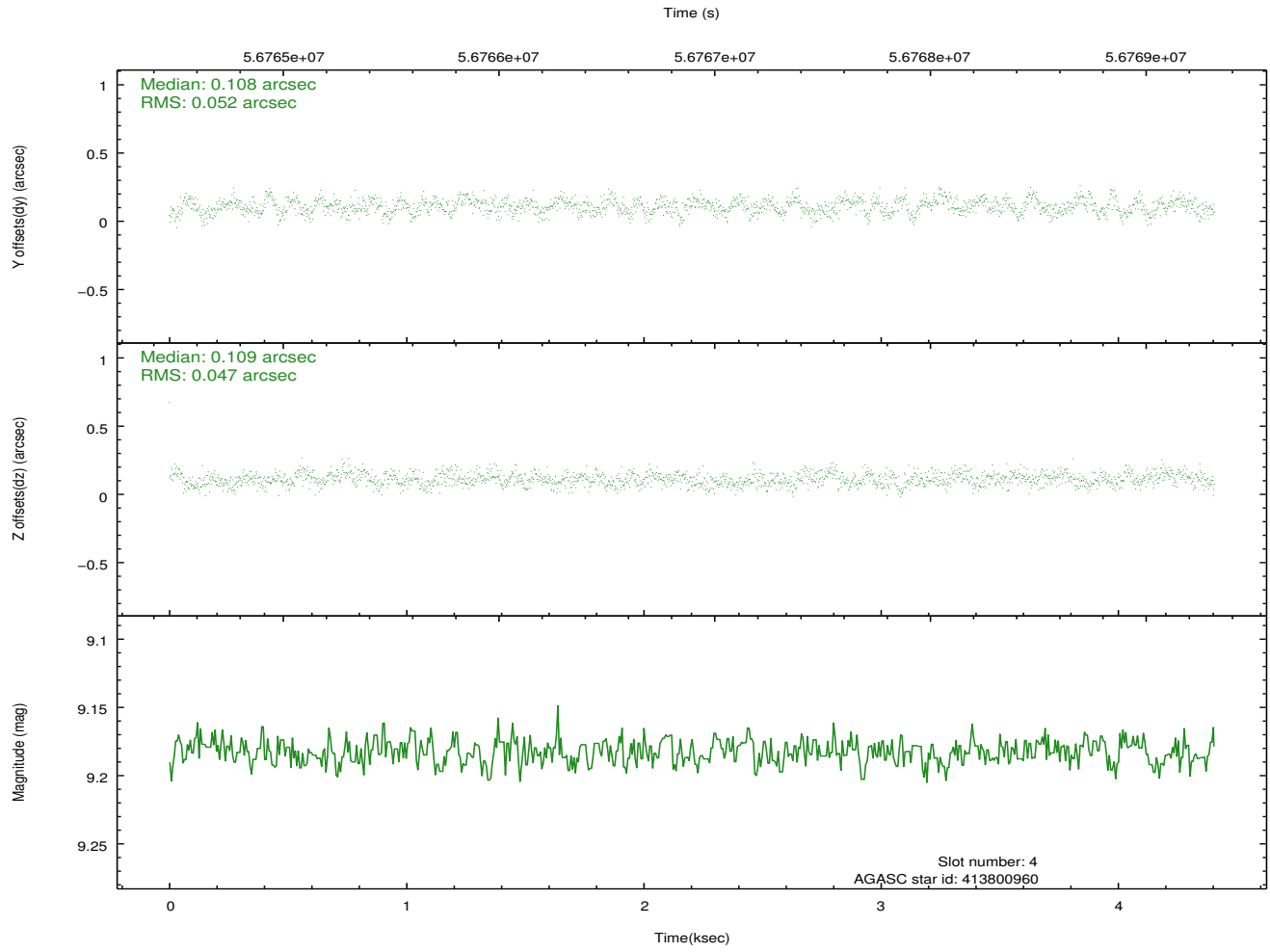
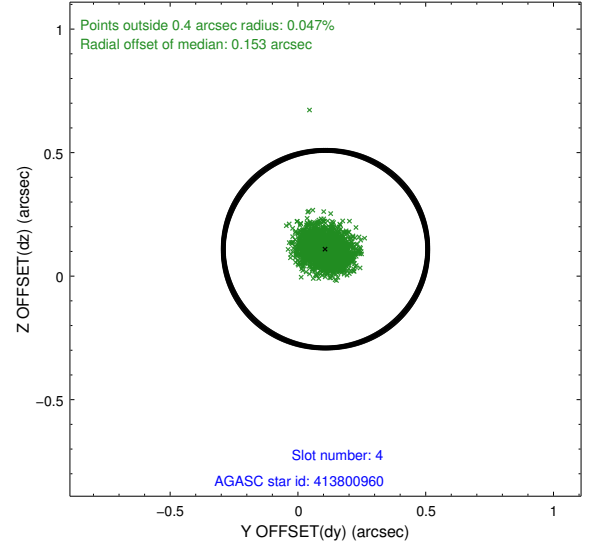
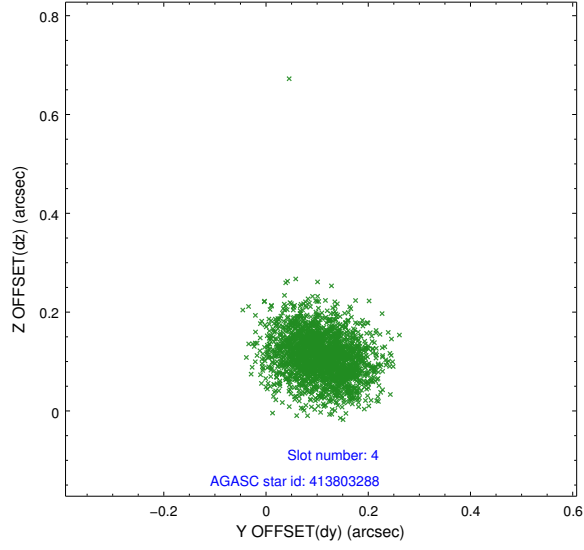
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	2150	0.009	0.008	0.007	0.010	0.000000	0.000000	-752.10	-1723.16
1	FID	ACIS-S-4	7.21	2150	0.049	-0.006	0.006	0.011	0.000000	0.000000	2160.99	184.60
2	FID	ACIS-S-5	7.24	2150	-0.089	0.007	0.006	0.010	0.000000	0.000000	-1804.19	179.09
3	GUIDE	413803288	7.00	2150	-0.085	-0.013	0.052	0.084	307.629978	40.506899	1719.02	-1208.65
4	GUIDE	413800960	9.18	2149	0.108	0.109	0.074	0.117	308.602491	40.622889	1240.00	1440.05
5	GUIDE	414323760	9.21	2150	-0.075	0.029	0.085	0.132	308.535475	41.616504	-2330.80	1156.83
6	GUIDE	414326208	9.92	2148	-0.028	-0.012	0.117	0.183	308.548887	41.510502	-1951.97	1203.61
7	GUIDE	413679760	9.75	2147	0.071	-0.109	0.111	0.179	307.206437	40.648998	1224.83	-2374.11

2.4 Star Slots

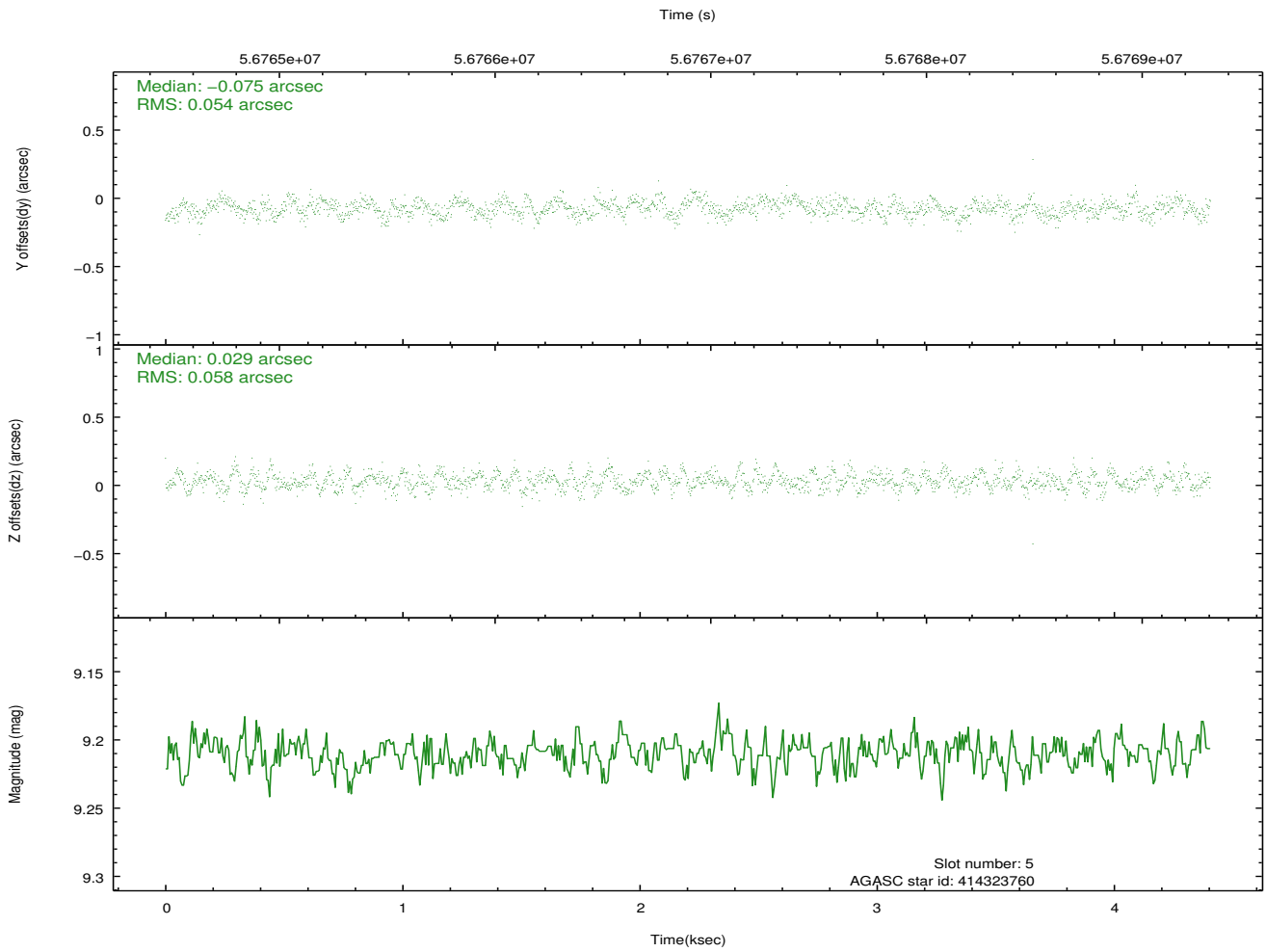
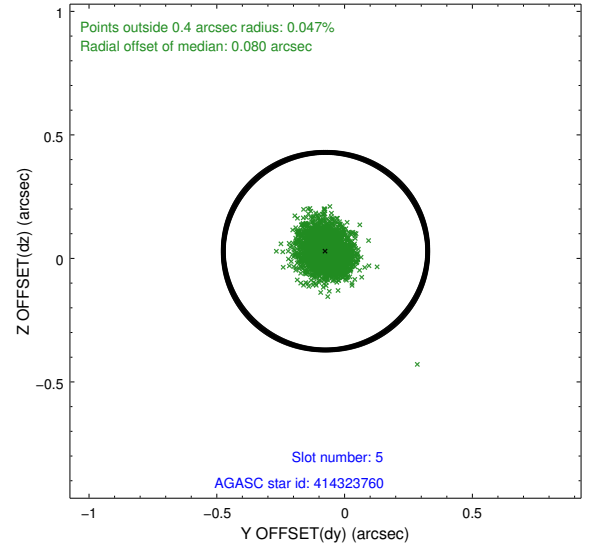
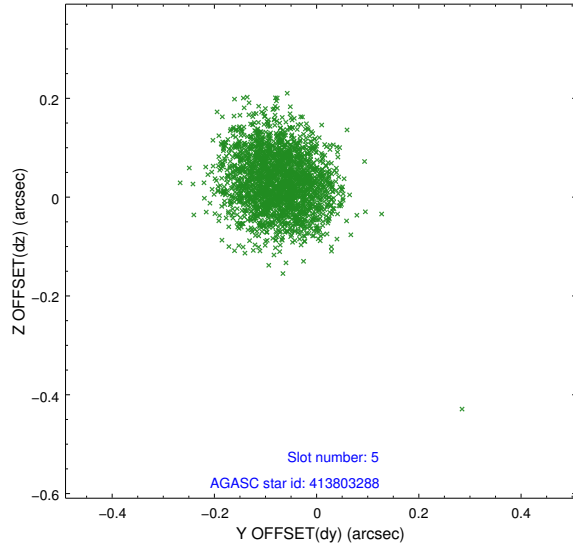
2.4.1 Slot 3



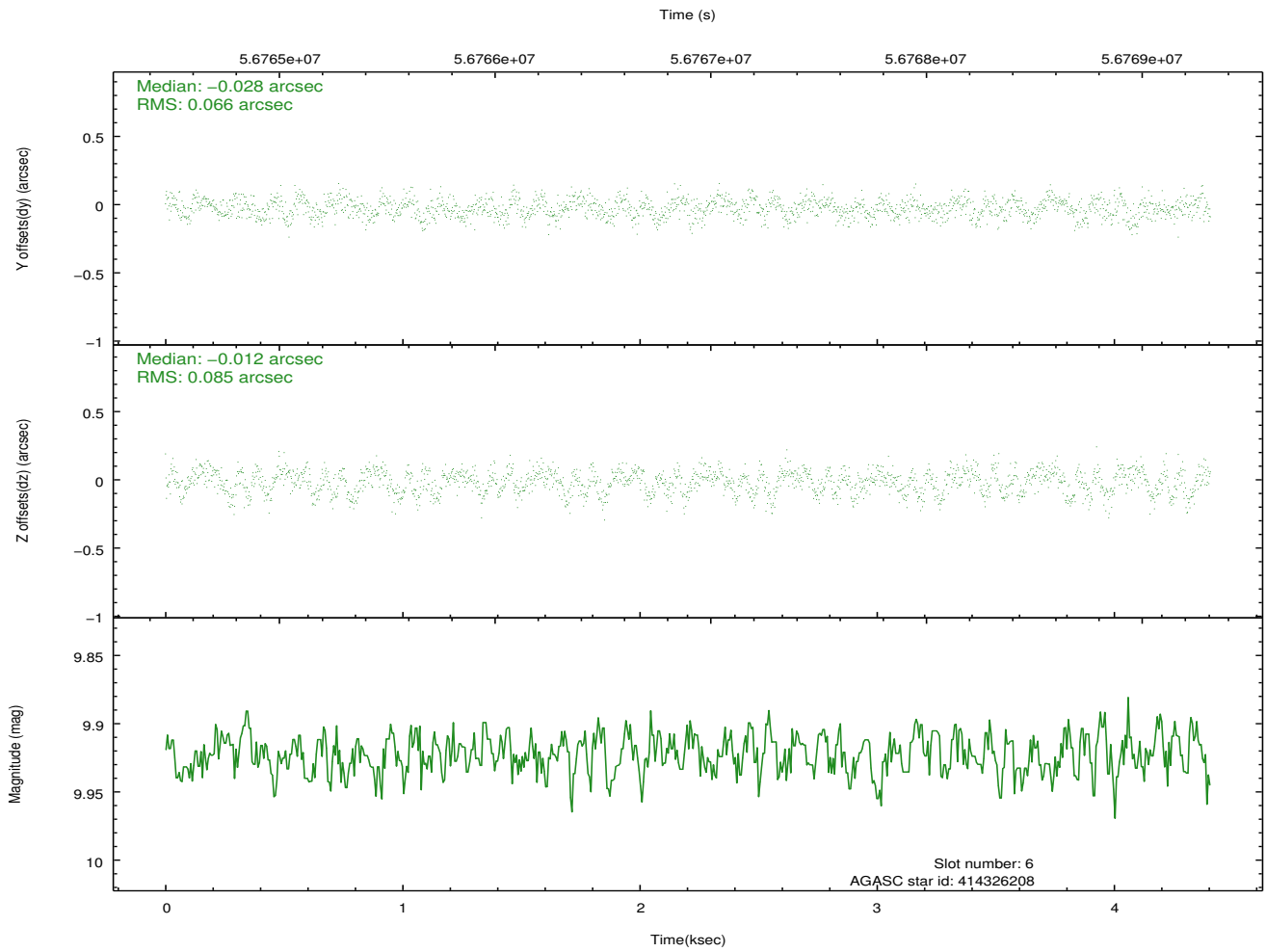
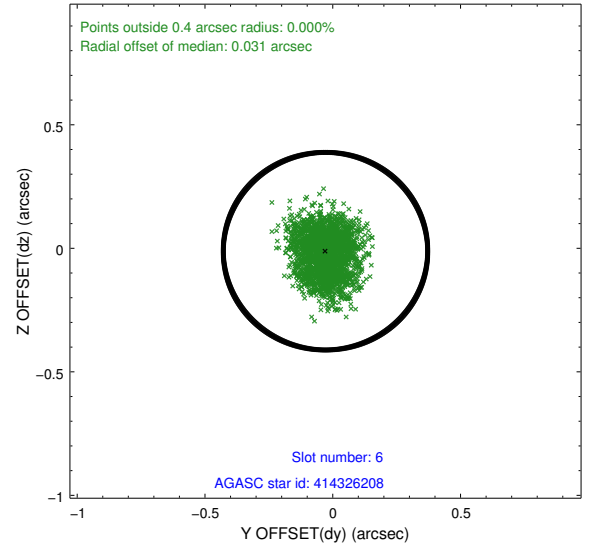
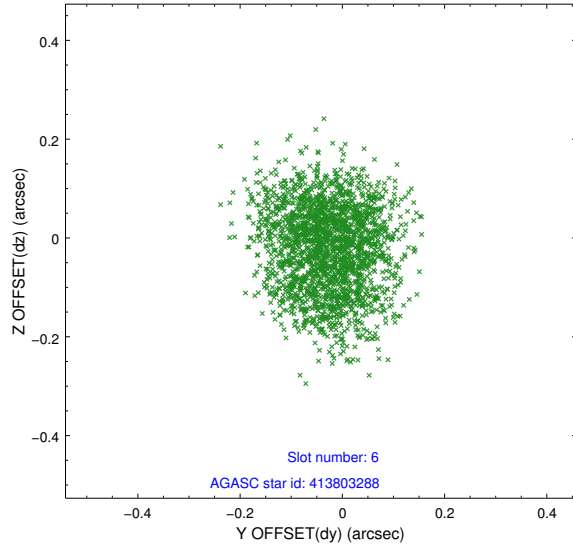
2.4.2 Slot 4



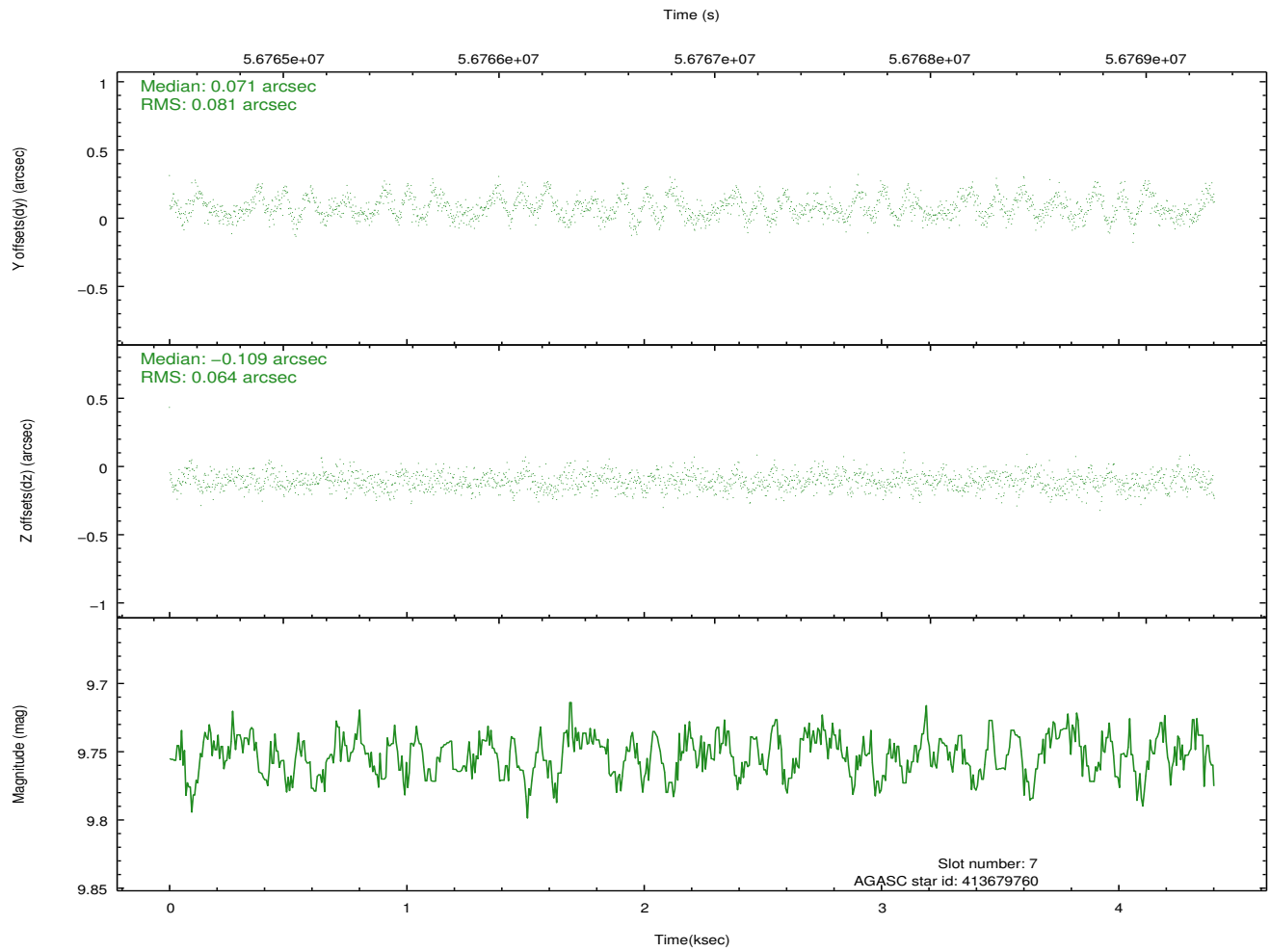
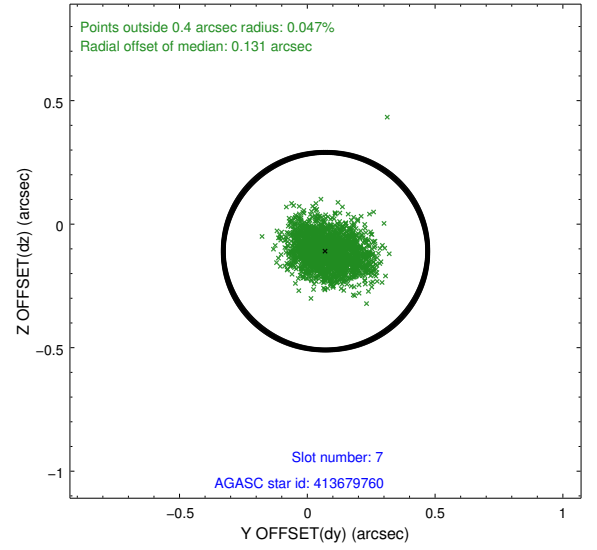
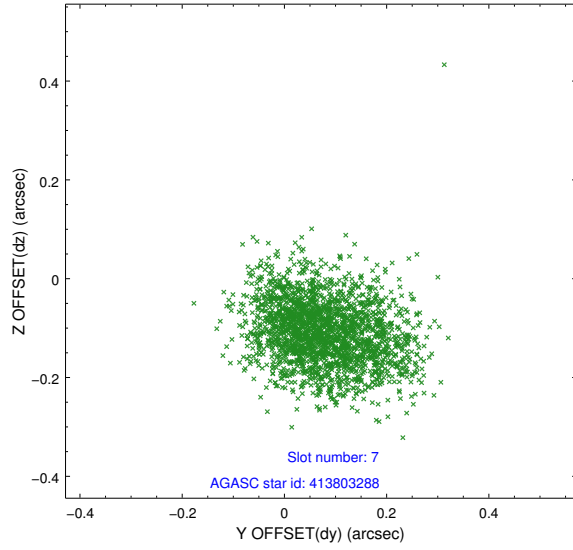
2.4.3 Slot 5



2.4.4 Slot 6

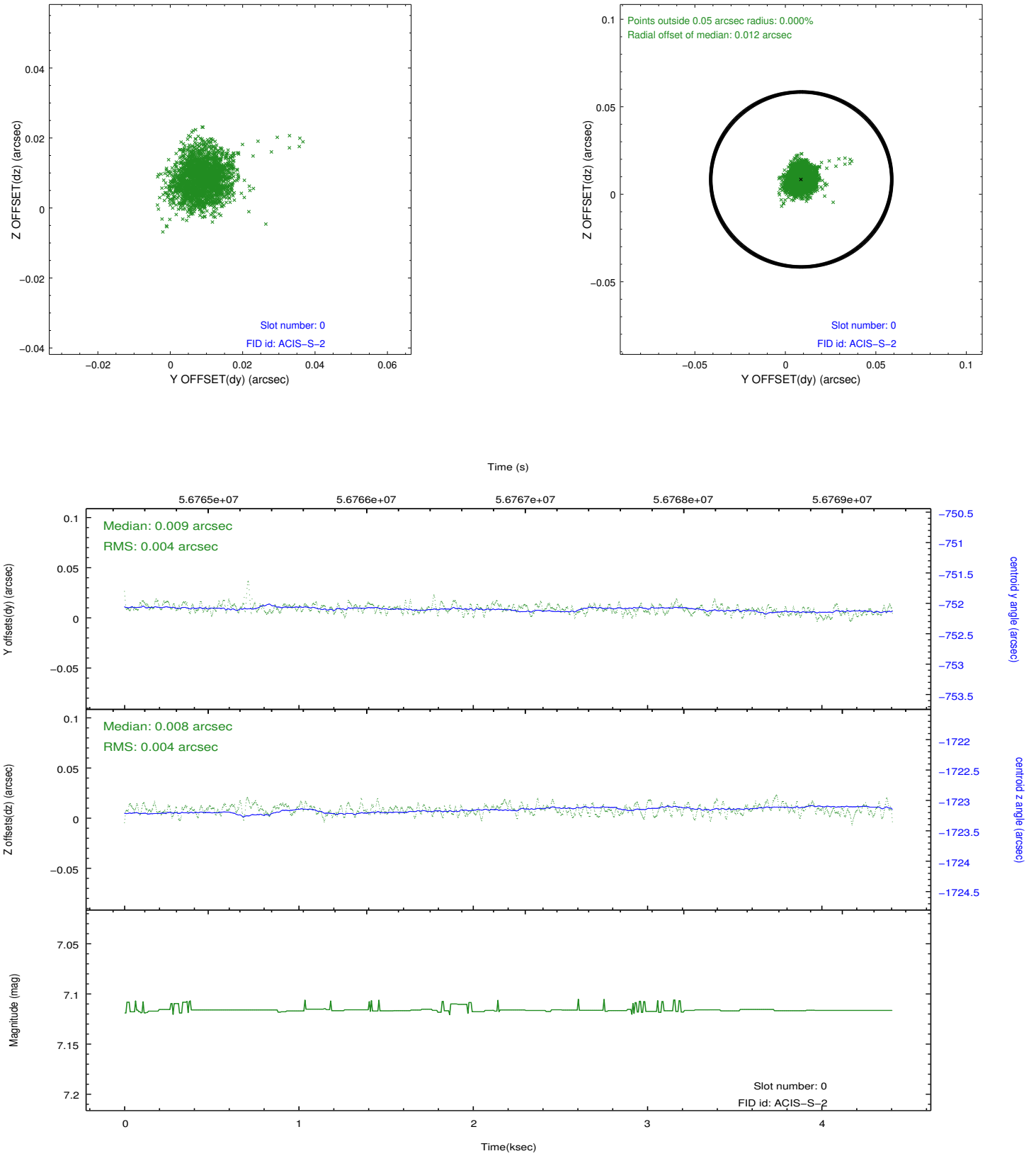


2.4.5 Slot 7

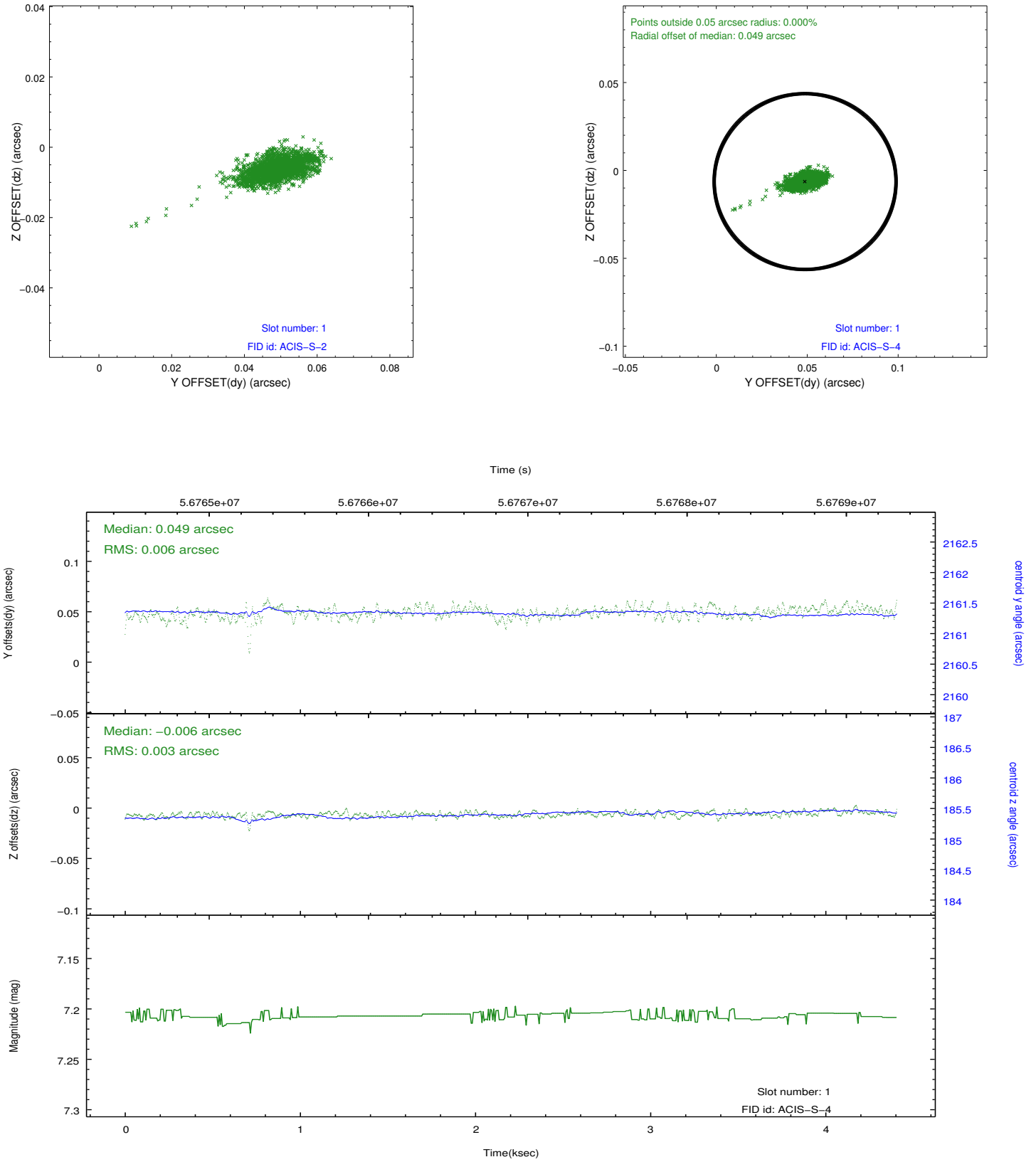


2.5 FID Slots

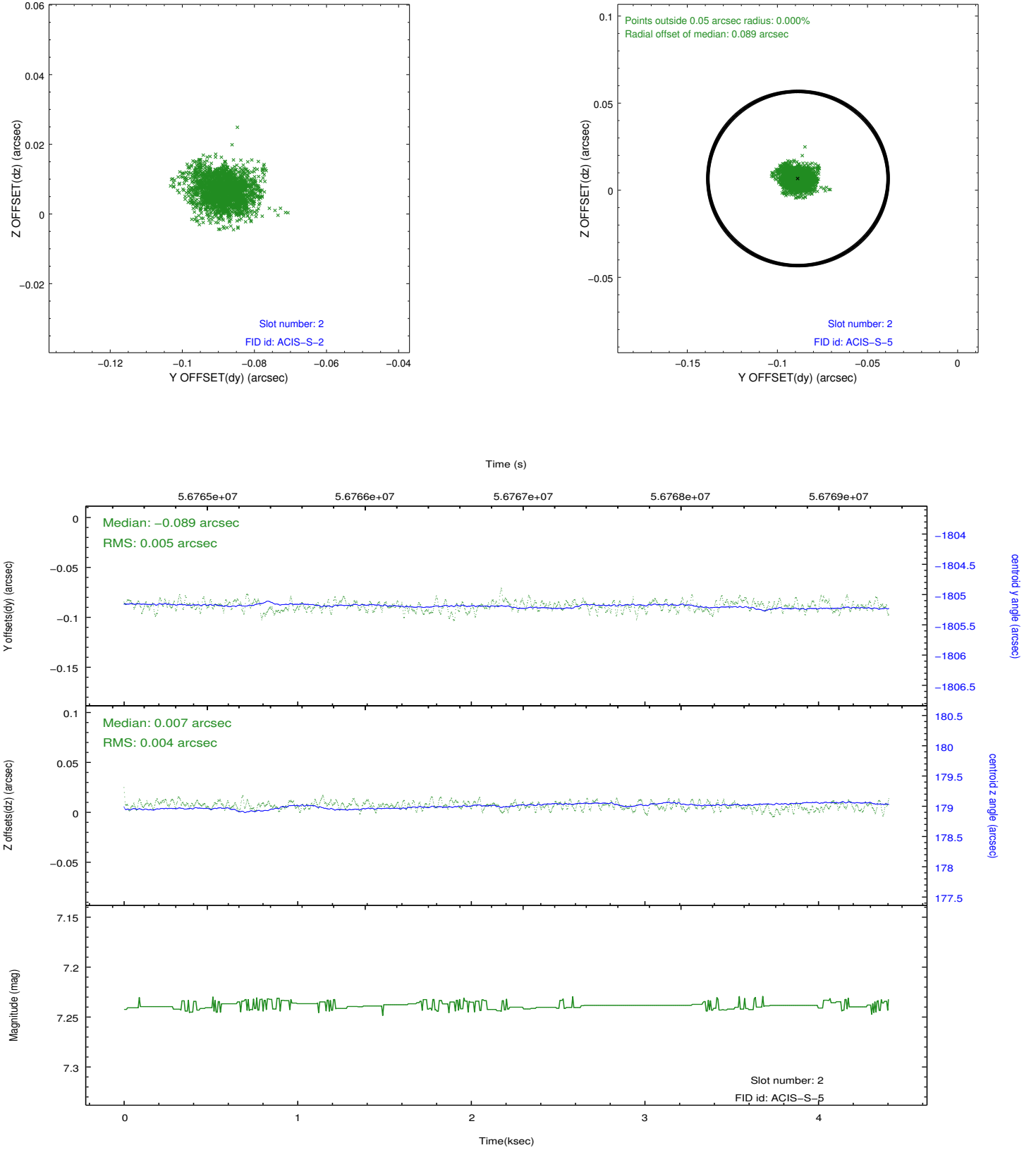
2.5.1 Slot 0



2.5.2 Slot 1

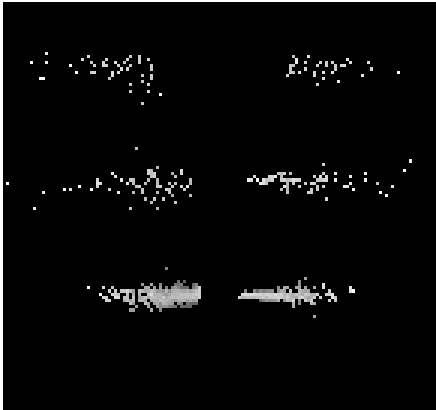


2.5.3 Slot 2

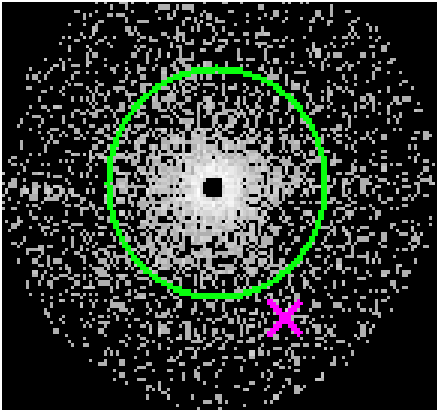


3 Gratings

3.1 HEG Arm



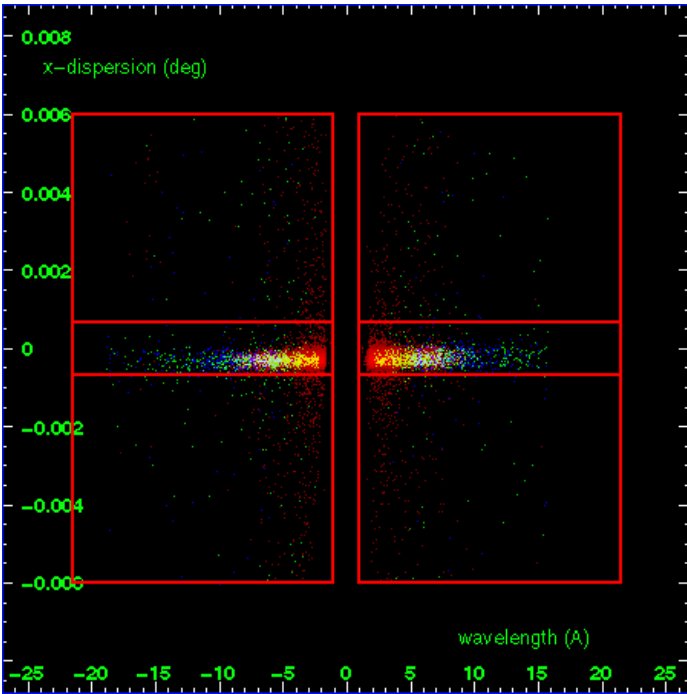
HEG Order Sort 123



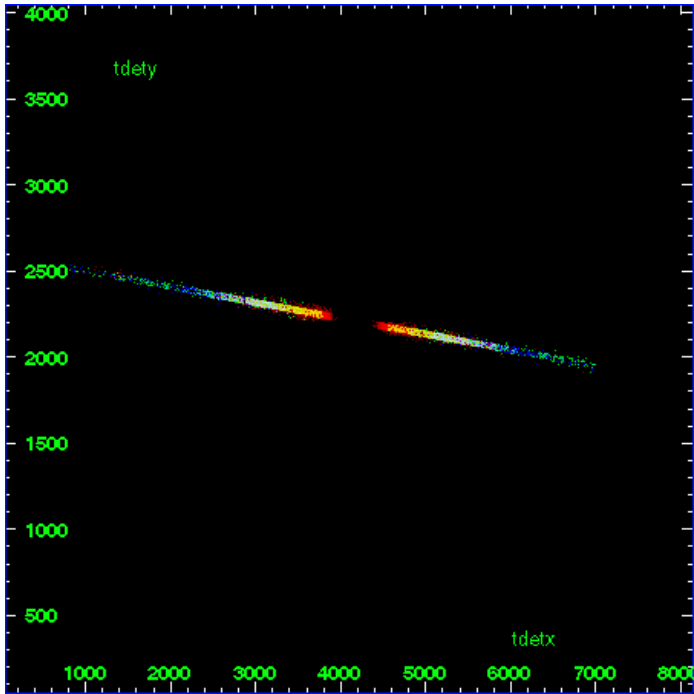
HEG Zero Order



HEG Order Sort ALL

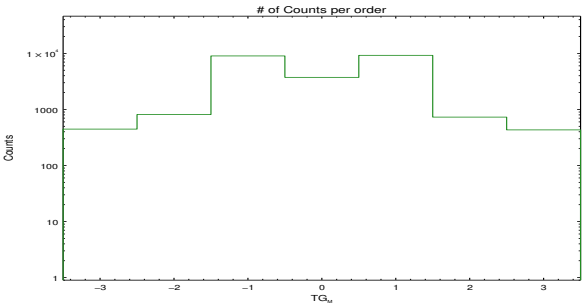


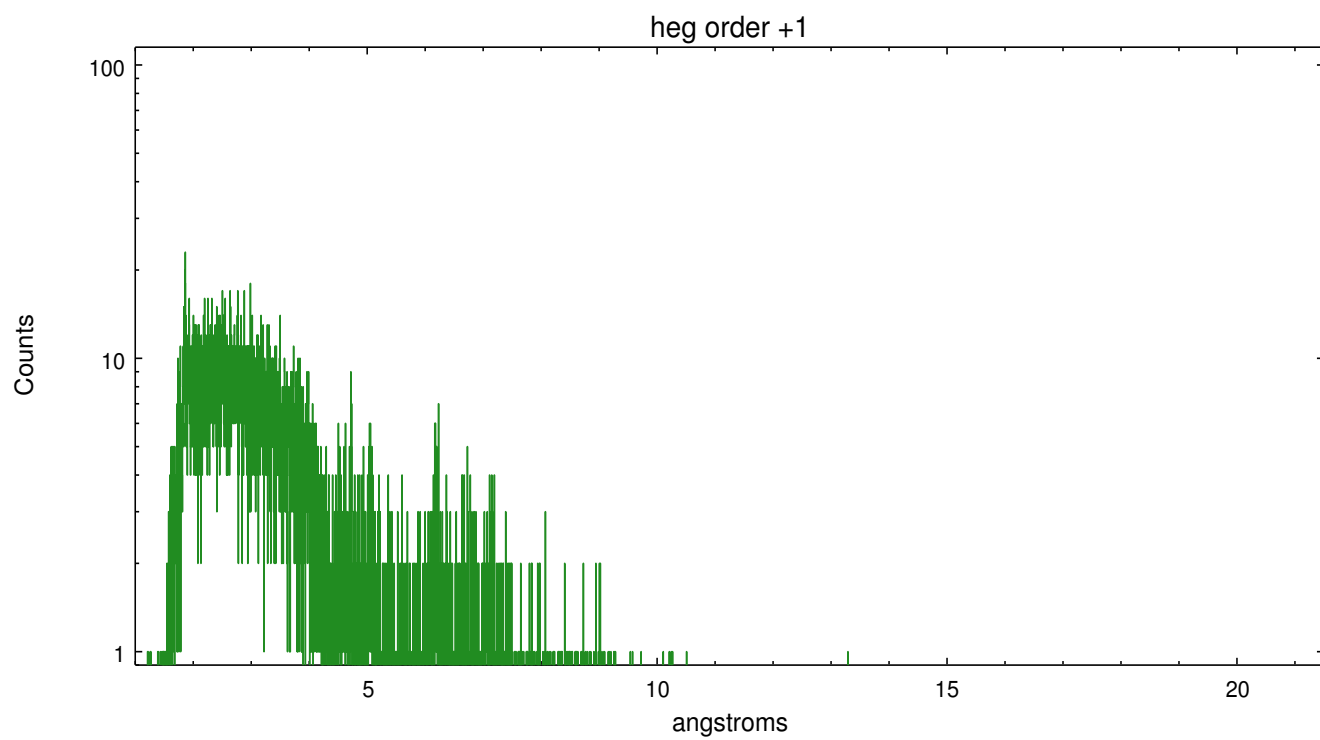
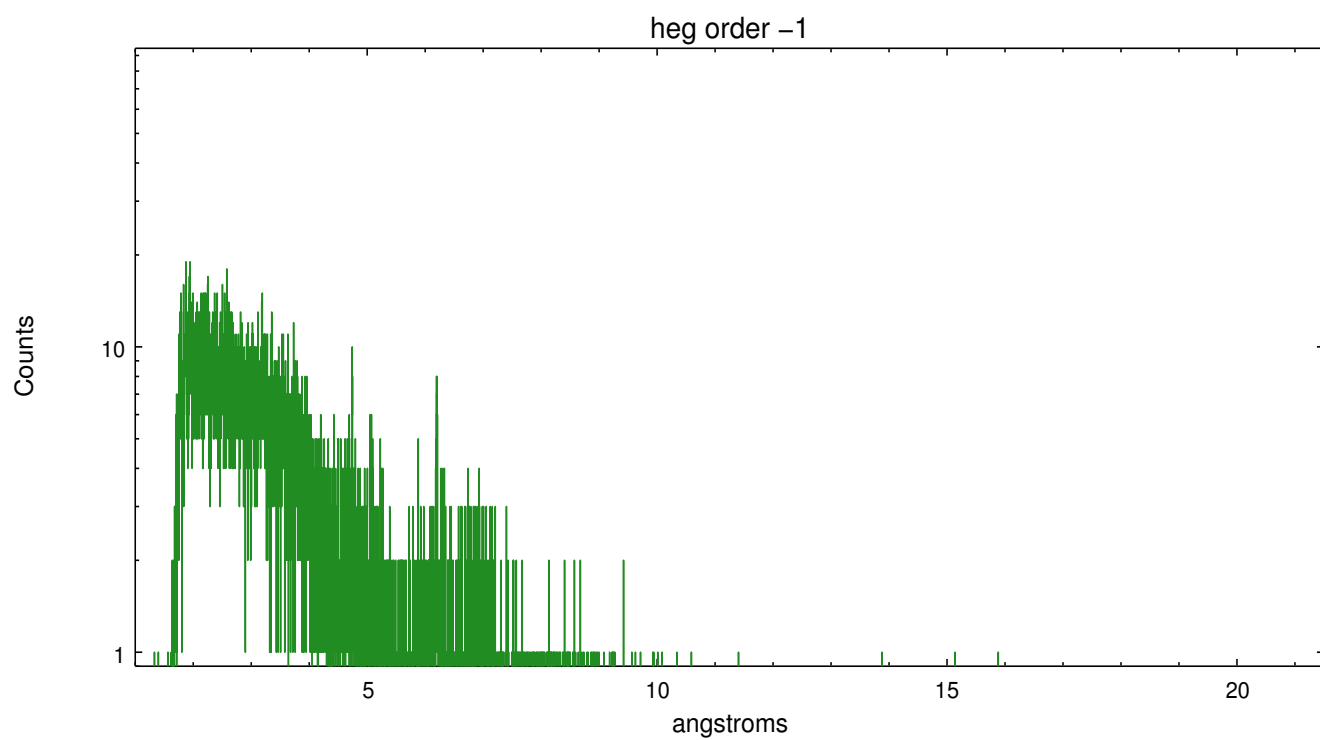
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	446	812	9017	3736	9235	730	432

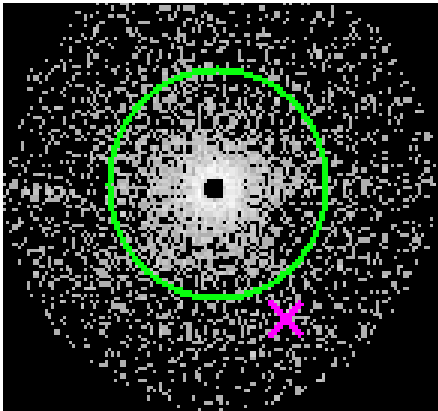




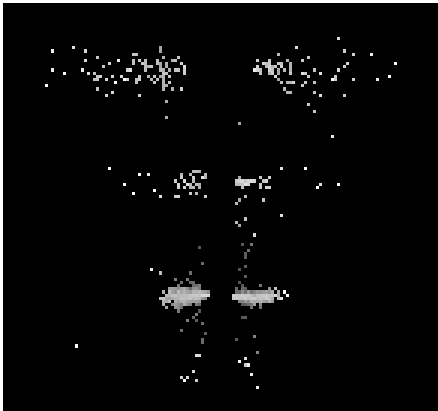
3.2 MEG Arm



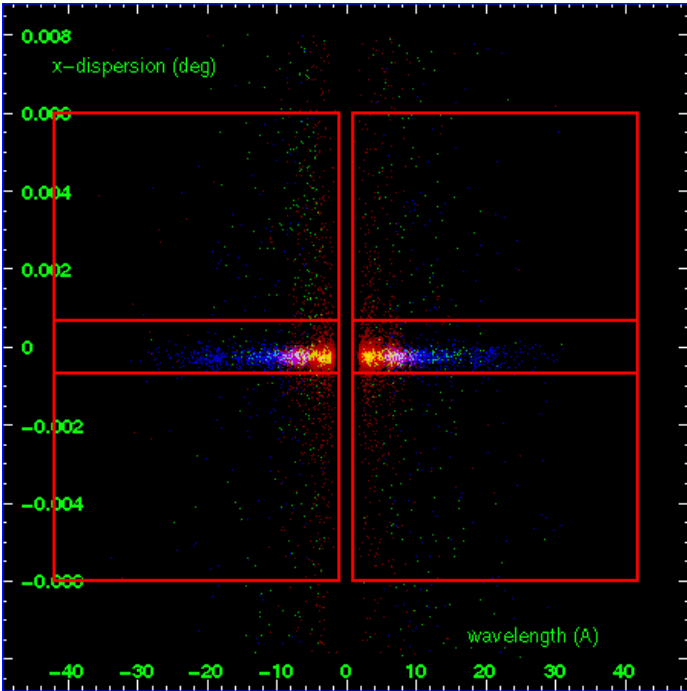
MEG Order Sort 123



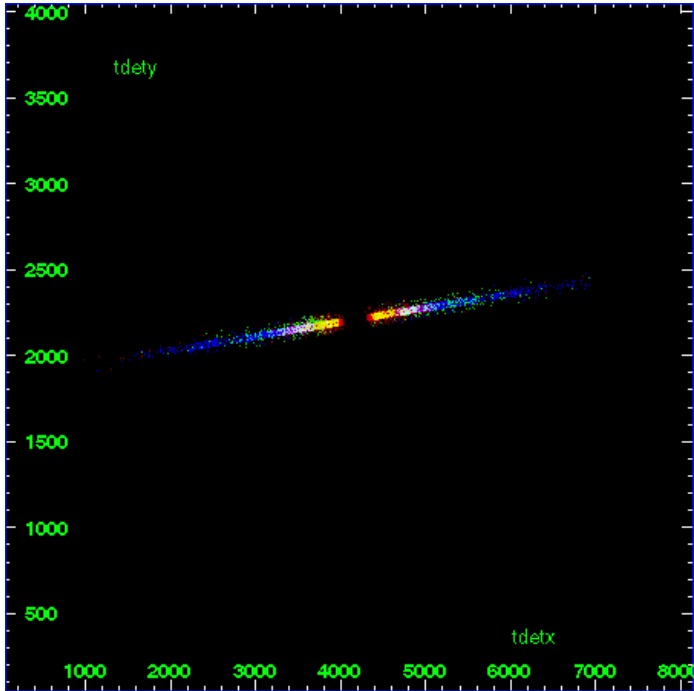
MEG Zero Order



MEG Order Sort ALL

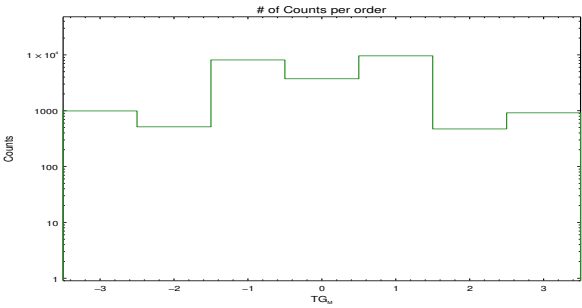


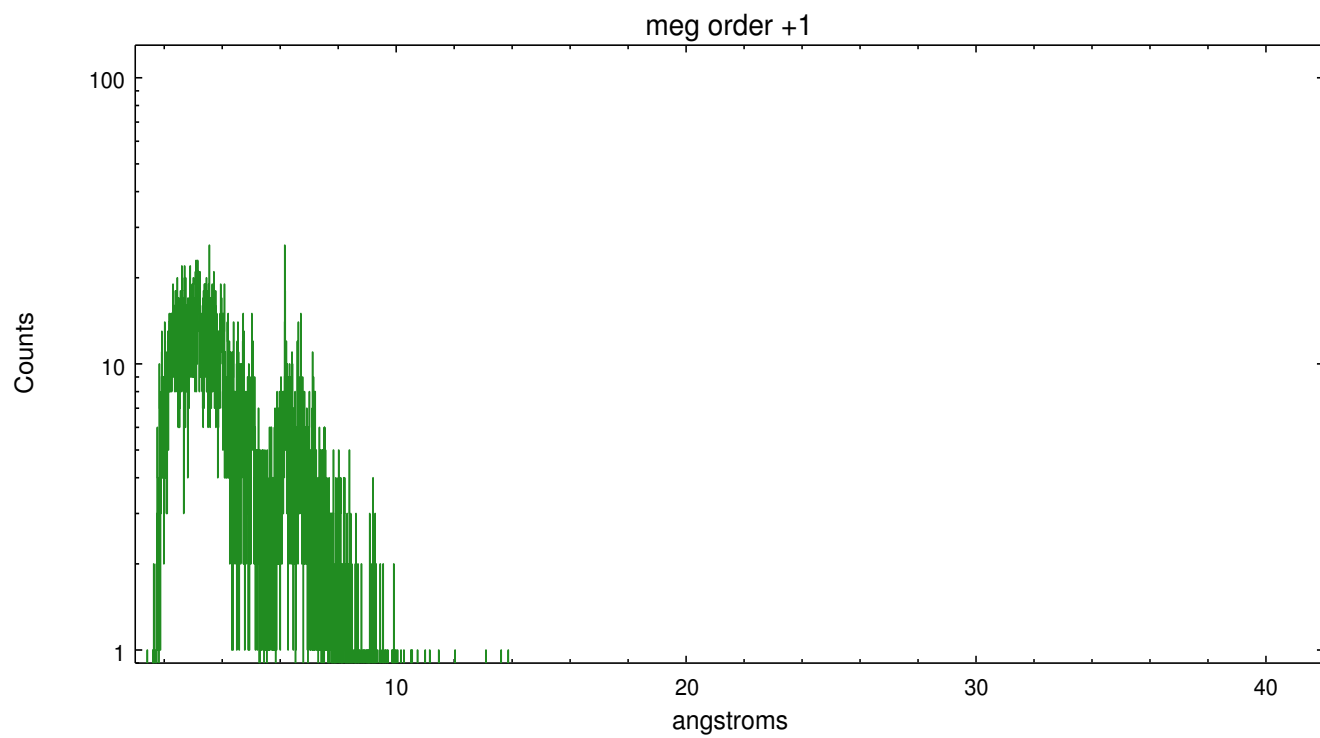
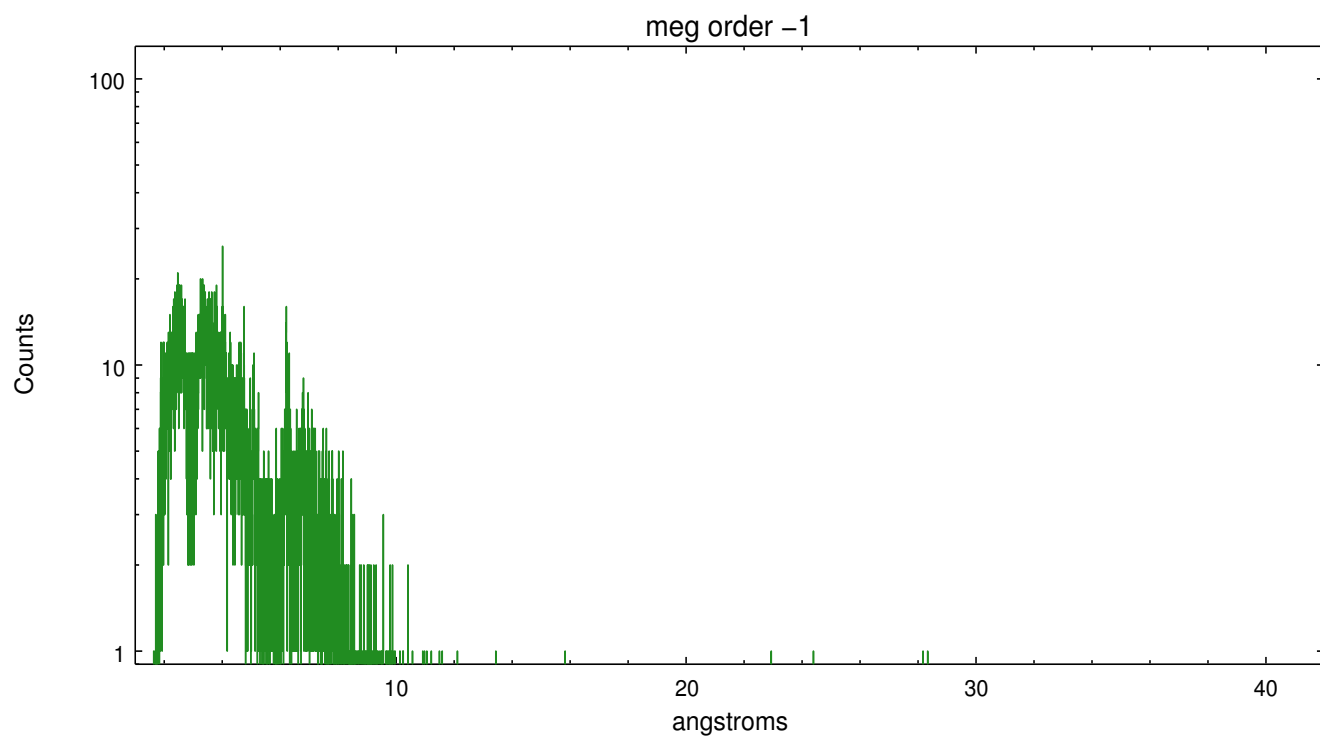
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	991	515	8120	3736	9612	472	917





A Summary

A.1 Status

V&V Scientist	John Houck
V&V Date (YYYY-MM-DD)	2009.12.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.977

A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 1.977 ks.