

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 8 - L2 Version 001
Chandra X-Ray Center

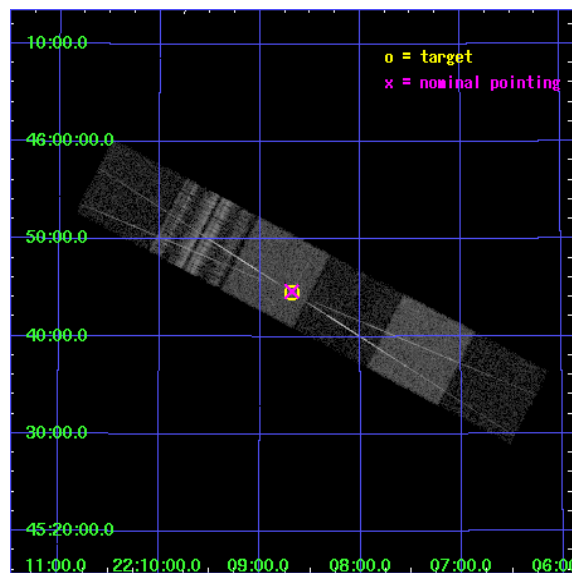
L2 Processing Date : Jun 8 2007

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1 Front

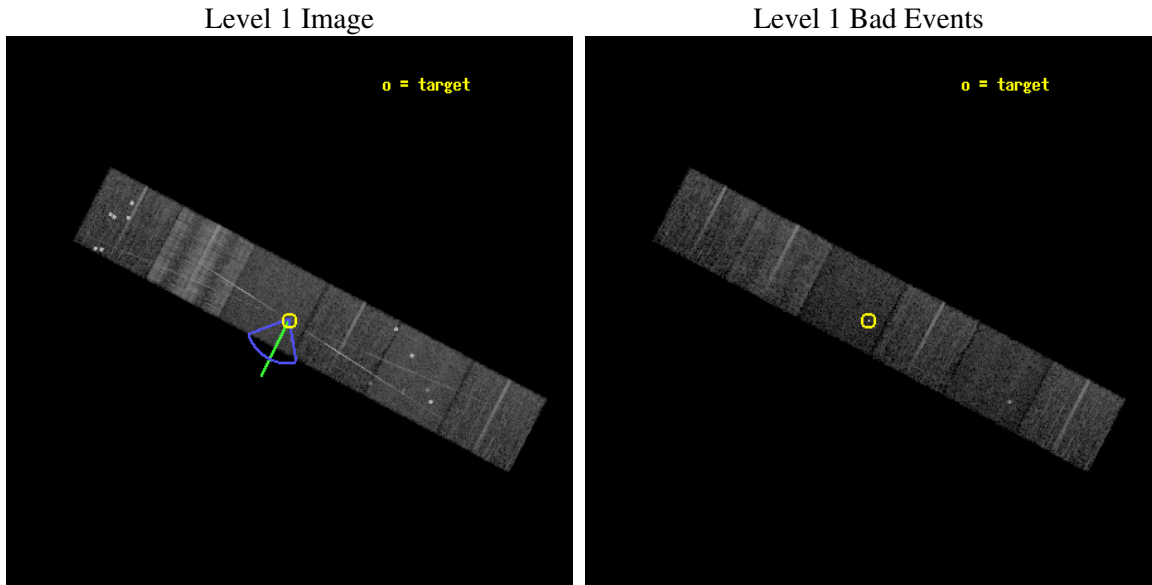
seq_num	200006
obs_id	8
title	STELLAR CORONAL SPECTROSCOPY OF COOL STARS
observer	DR. CLAUDE CANIZARES
object	AR LAC-3 LAST QUAD (1)
dtcycle	0
cycle	P
ra_targ	332.17
dec_targ	45.742222
ra_nom	332.17052156298
dec_nom	45.744352805833
roll_nom	207.66033774798
revision	2
ontime	7520.0000070035
livetime	7424.7772389145
ontime4	7520.0000070035
ontime5	7520.0000070035
ontime6	7520.0000070035
ontime7	7520.0000070035
ontime8	7520.0000070035
ontime9	7520.0000070035
l2events	106604



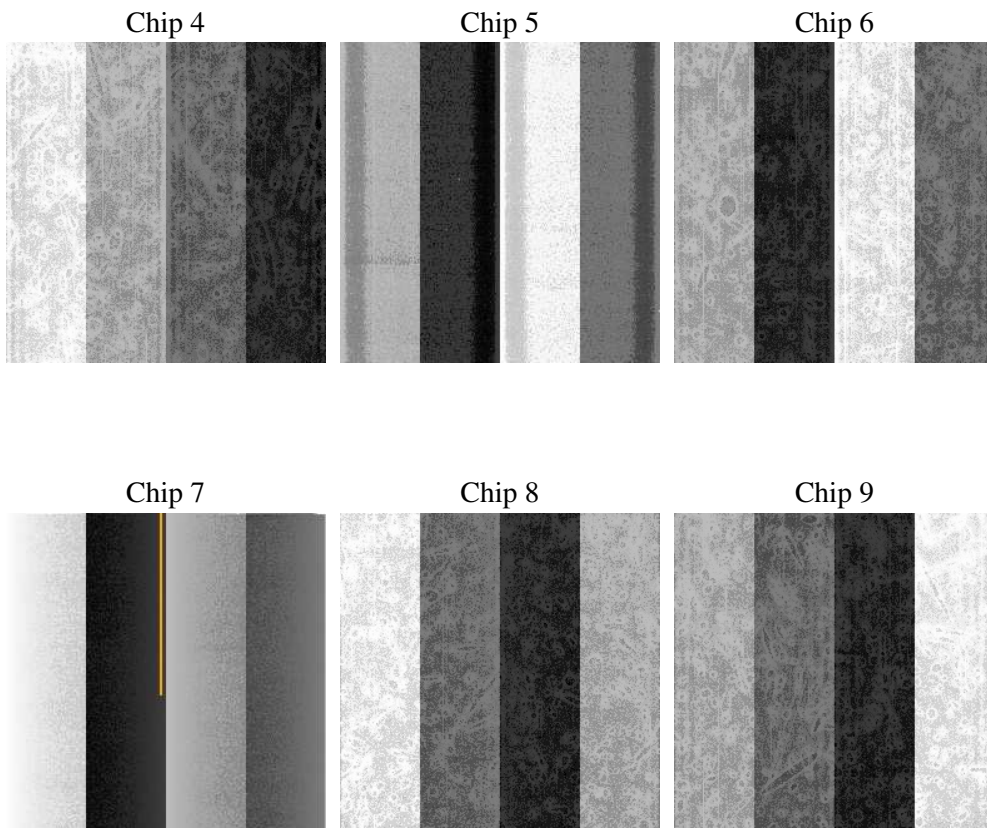
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-08T05:43:10
revision	2

sched_exp_time	7594.479000
ontime	7520.0000070035
ontime4	7520.0000070035
ontime5	7520.0000070035
ontime6	7520.0000070035
ontime7	7520.0000070035
ontime8	7520.0000070035
ontime9	7520.0000070035
l1events	429929

2.1.4 Events

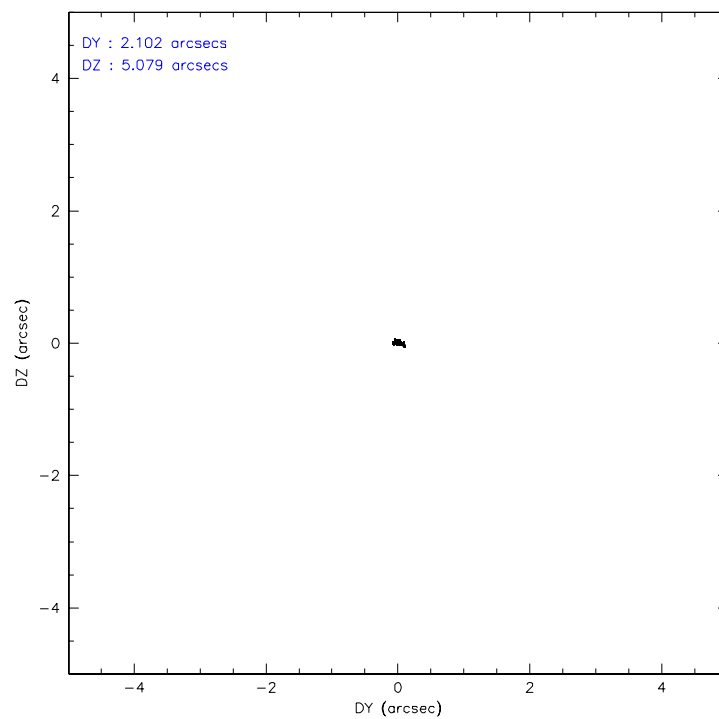
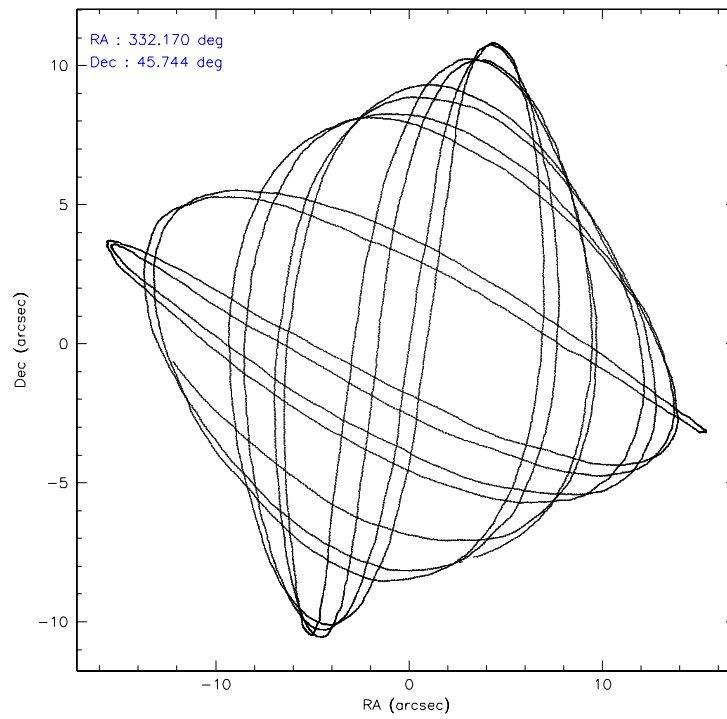
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	59485	69144	61388	62356	110510	67046
rejected events	50449	34615	47032	33800	57854	46103
rejected %	84%	50%	76%	54%	52%	68%

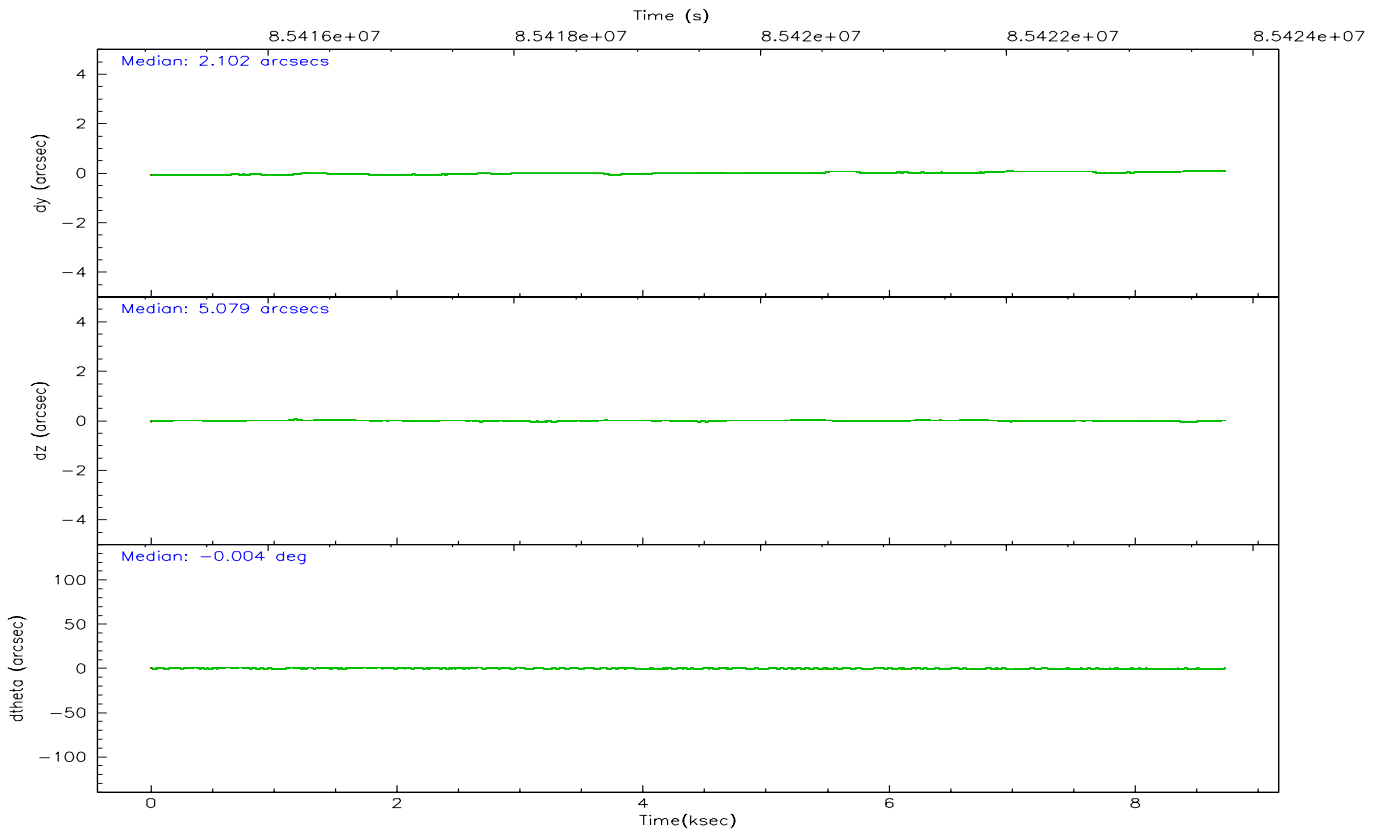
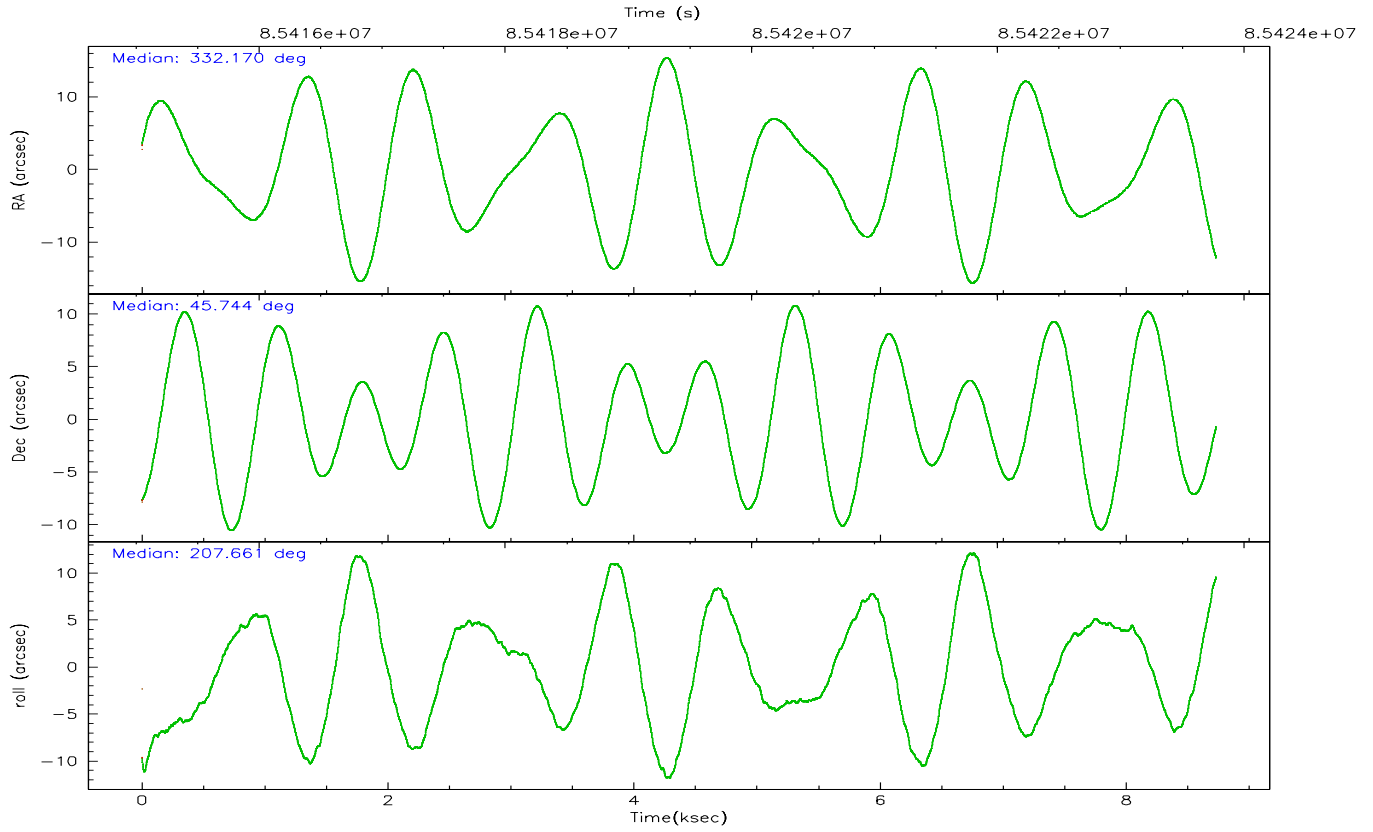
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3928	6295	9404	3256	16826	14553
	6%	9%	15%	5%	15%	21%
grade 1 events	31	611	68	117	133	83
	0%	0%	0%	0%	0%	0%
grade 2 events	2734	10331	2265	6068	8254	4035
	4%	14%	3%	9%	7%	6%
grade 3 events	547	1788	685	2715	8316	526
	0%	2%	1%	4%	7%	0%
grade 4 events	500	1689	726	2751	7427	594
	0%	2%	1%	4%	6%	0%
grade 5 events	1623	4835	1823	5553	2873	1870
	2%	6%	2%	8%	2%	2%
grade 6 events	1363	14587	1332	13895	12116	1321
	2%	21%	2%	22%	10%	1%
grade 7 events	48759	29008	45085	28001	54565	44064
	81%	41%	73%	44%	49%	65%

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	OVERRIDE	OVERRIDE
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	332.17	332.1705215629792	Alternating exposures requested	N	N
Pointing Dec	45.742222	45.74435280583313	Primary exposure time	3.200000	3.200000
Pointing Roll	207.488891	207.6603377479797			
Roll angle	210	210			
Roll tolerance	40.000000	40.000000			
Roll constraint allows 180D rotation	N	N			
Window start time	50061664.184000	50061664.184000			
Window stop time	93754864.184000	93754864.184000			
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119			
SIM defocus (mm)	0.001444942264670734	0.001444942264670734			
SIM translation stage pos (mm)	-187.122887688	-187.122887688			
SIM translation stage offset (mm)	-3.00963541596721	-3.00963541596721			
Phase constraints	Y	Y			
Phase period	1.983180	1.983180			
Phase epoch	48501.123200	48501.123200			
Phase start	0.728000	0.728000			
Phase end	0.772000	0.772000			
Phase start error	0.080000	0.080000			
Phase end error	0.080000	0.080000			
Observation start time	85414684.33617599	85414684.33617599			
Observation start	2000-09-15T14:18:04	2000-09-15T14:18:04			

2.3 Aspect



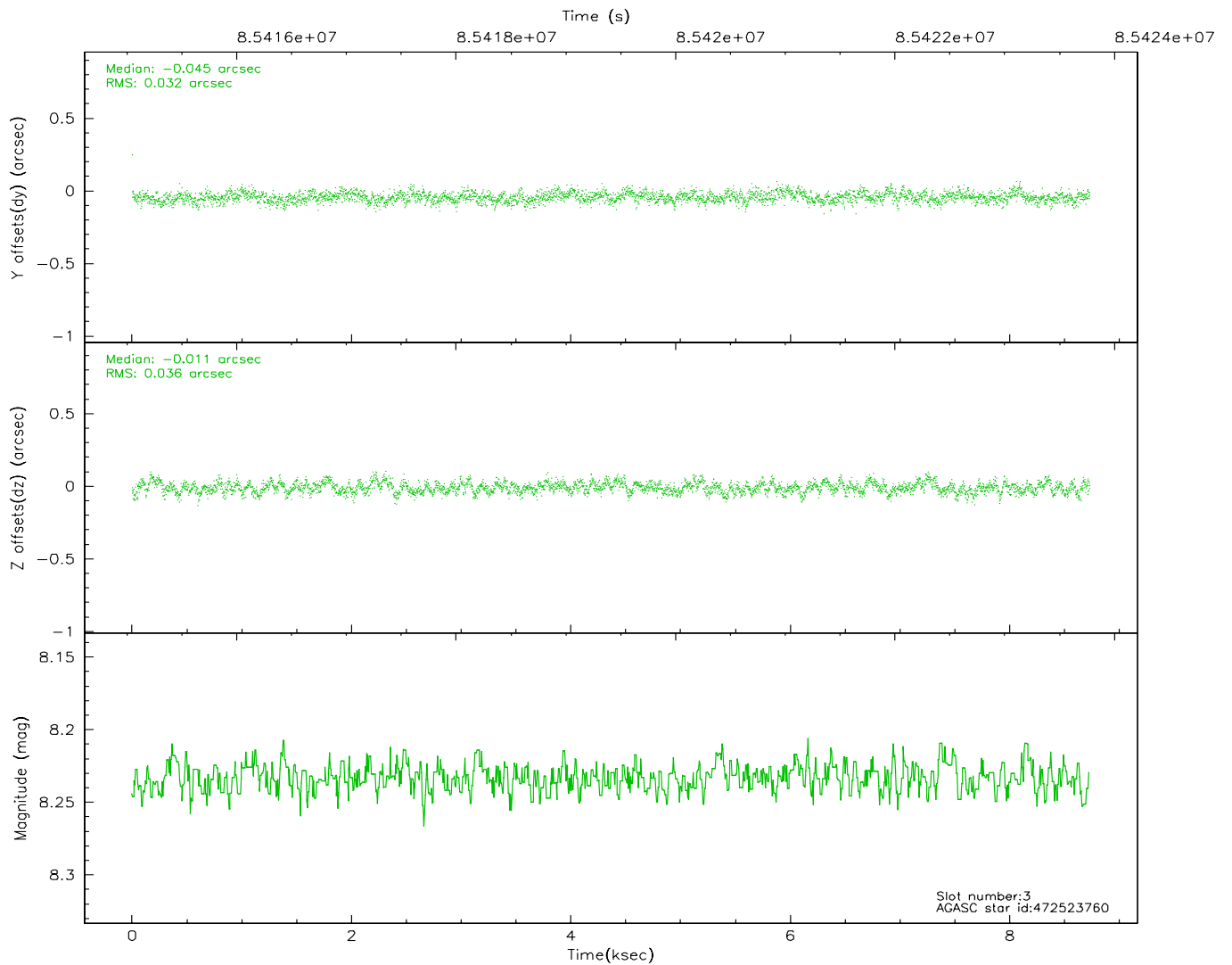
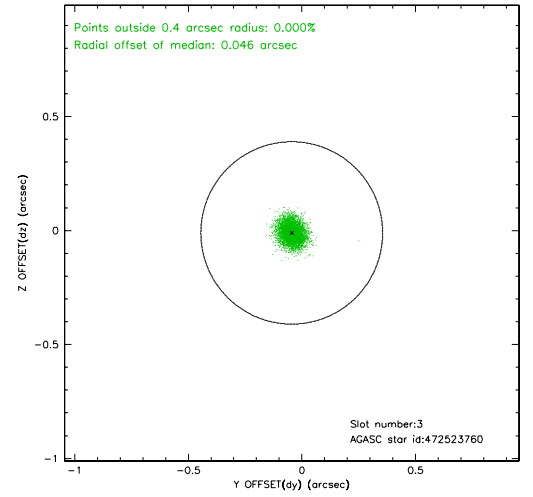
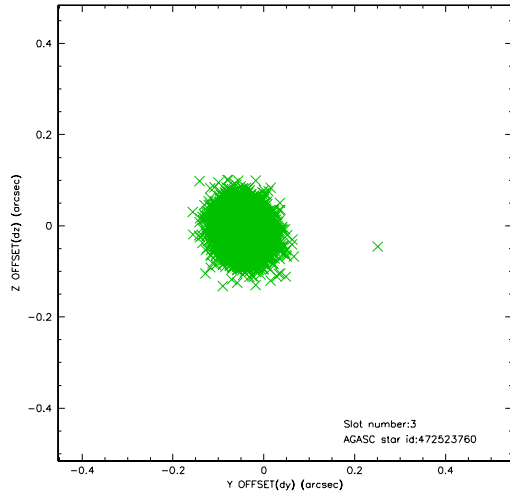


Slot Statistics

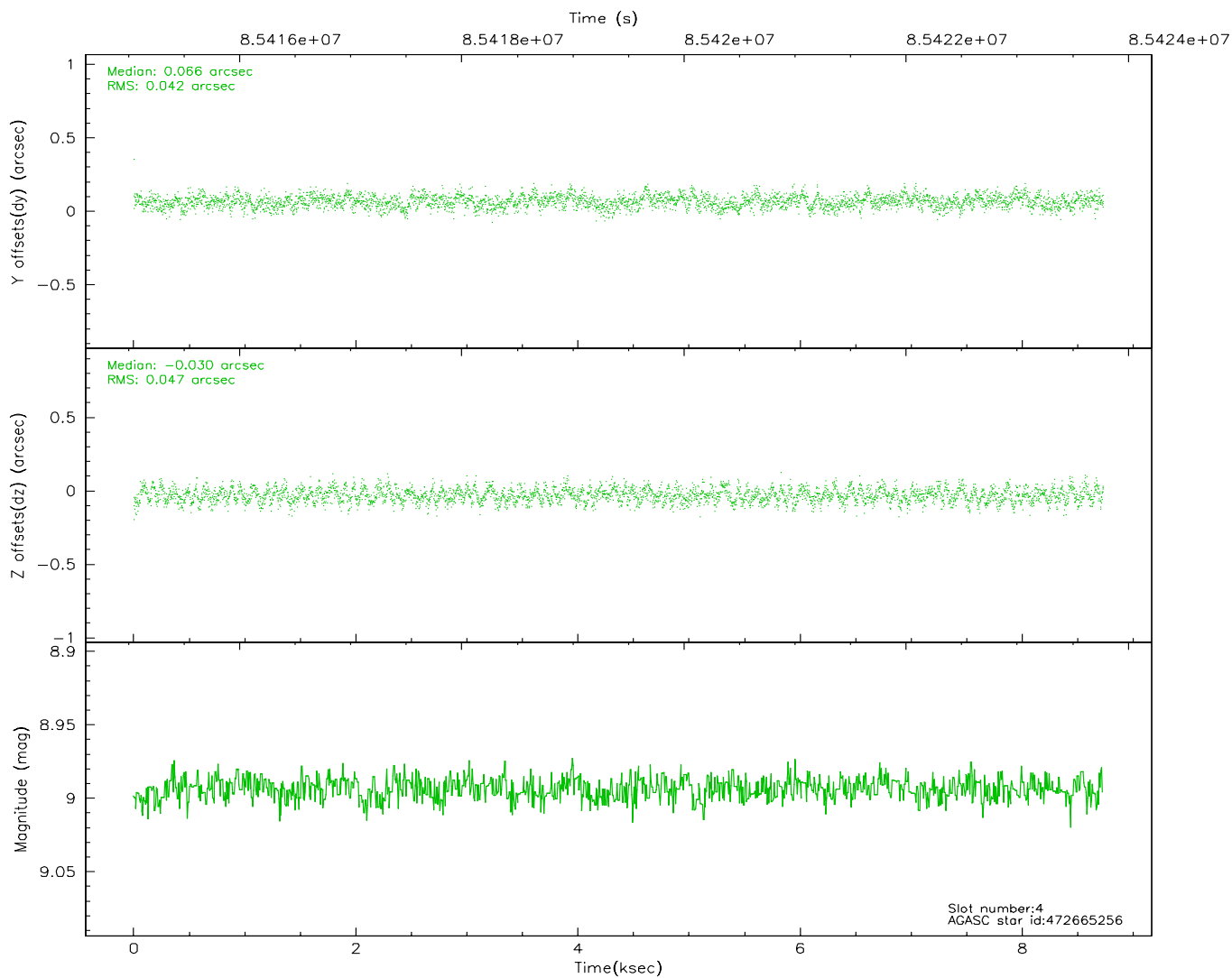
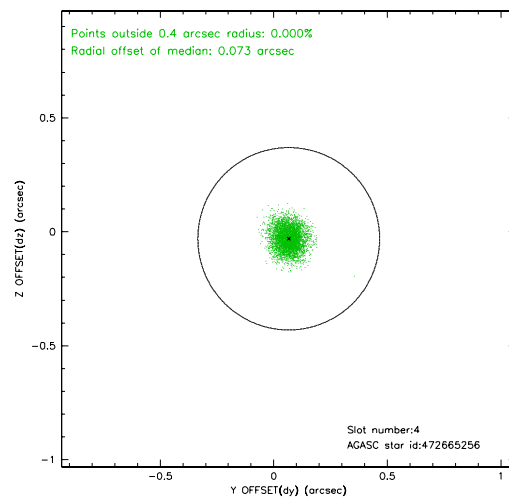
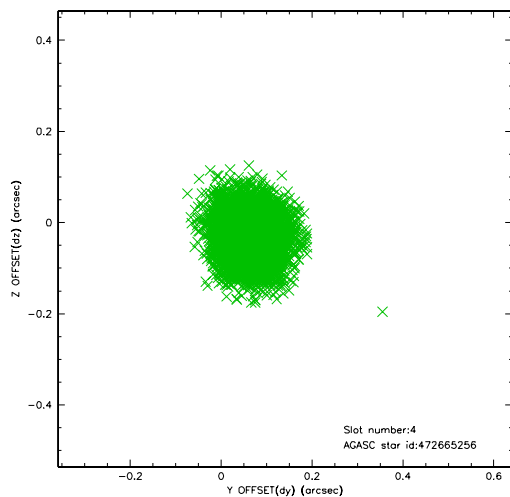
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2130	-0.006	0.002	0.005	0.008	0.000000	0.000000	-754.52	-1788.33
1	FID	ACIS-S-4	7.19	2130	-0.018	0.005	0.005	0.009	0.000000	0.000000	2158.46	119.47
2	FID	ACIS-S-6	7.38	2130	-0.004	-0.000	0.006	0.011	0.000000	0.000000	408.28	757.58
3	GUIDE	472523760	8.23	4259	-0.045	-0.011	0.052	0.082	331.645363	45.403260	1826.86	522.92
4	GUIDE	472665256	8.99	4256	0.066	-0.030	0.068	0.107	332.808125	46.195041	-2076.55	-660.28
5	GUIDE	472659832	9.45	4259	0.012	0.060	0.080	0.129	332.780399	46.098139	-1857.26	-381.23
6	GUIDE	472655704	9.47	4259	-0.049	0.024	0.090	0.151	332.167195	45.285228	854.77	1512.72
7	GUIDE	472523568	9.35	4256	0.014	-0.043	0.086	0.139	331.465966	45.371411	2281.54	411.99

2.4 Star Slots

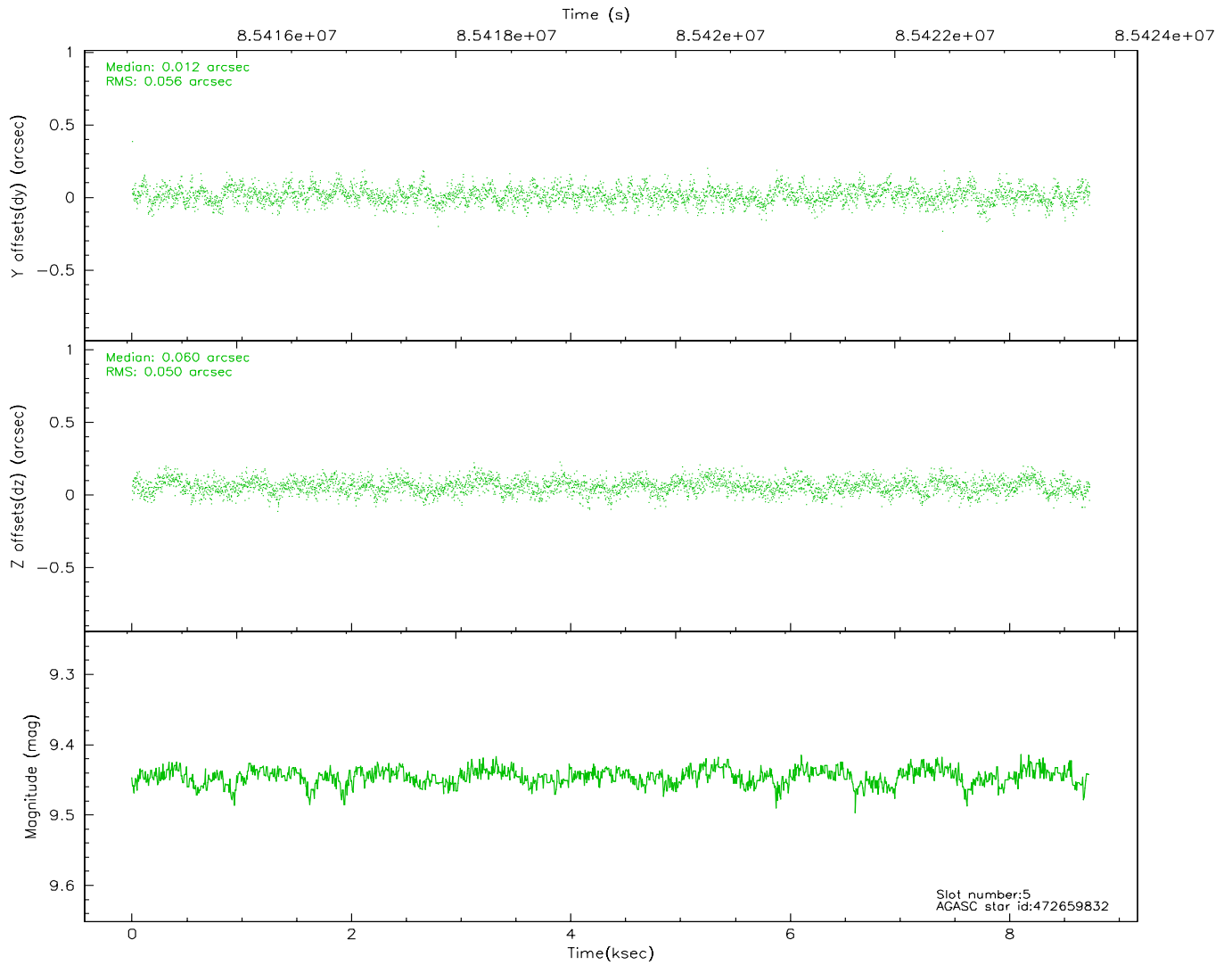
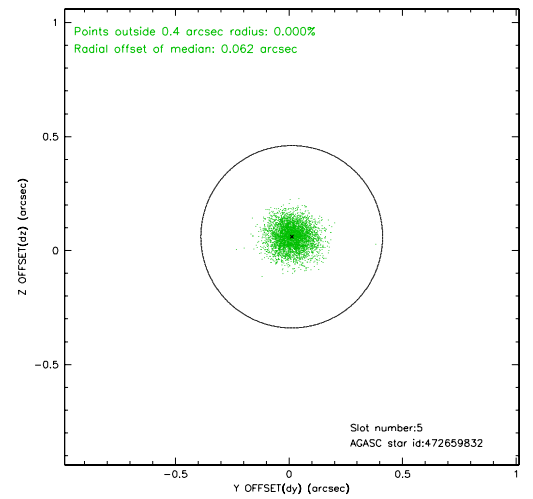
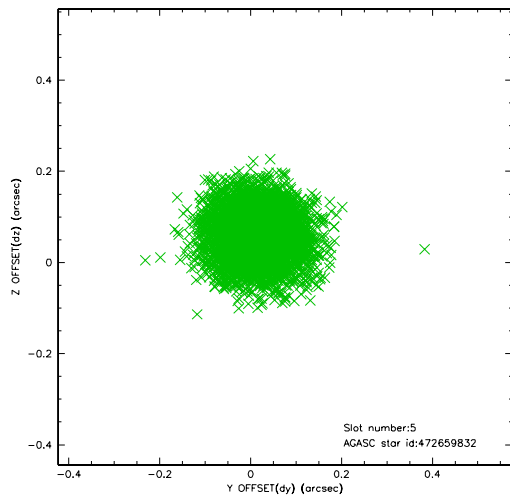
2.4.1 Slot 3



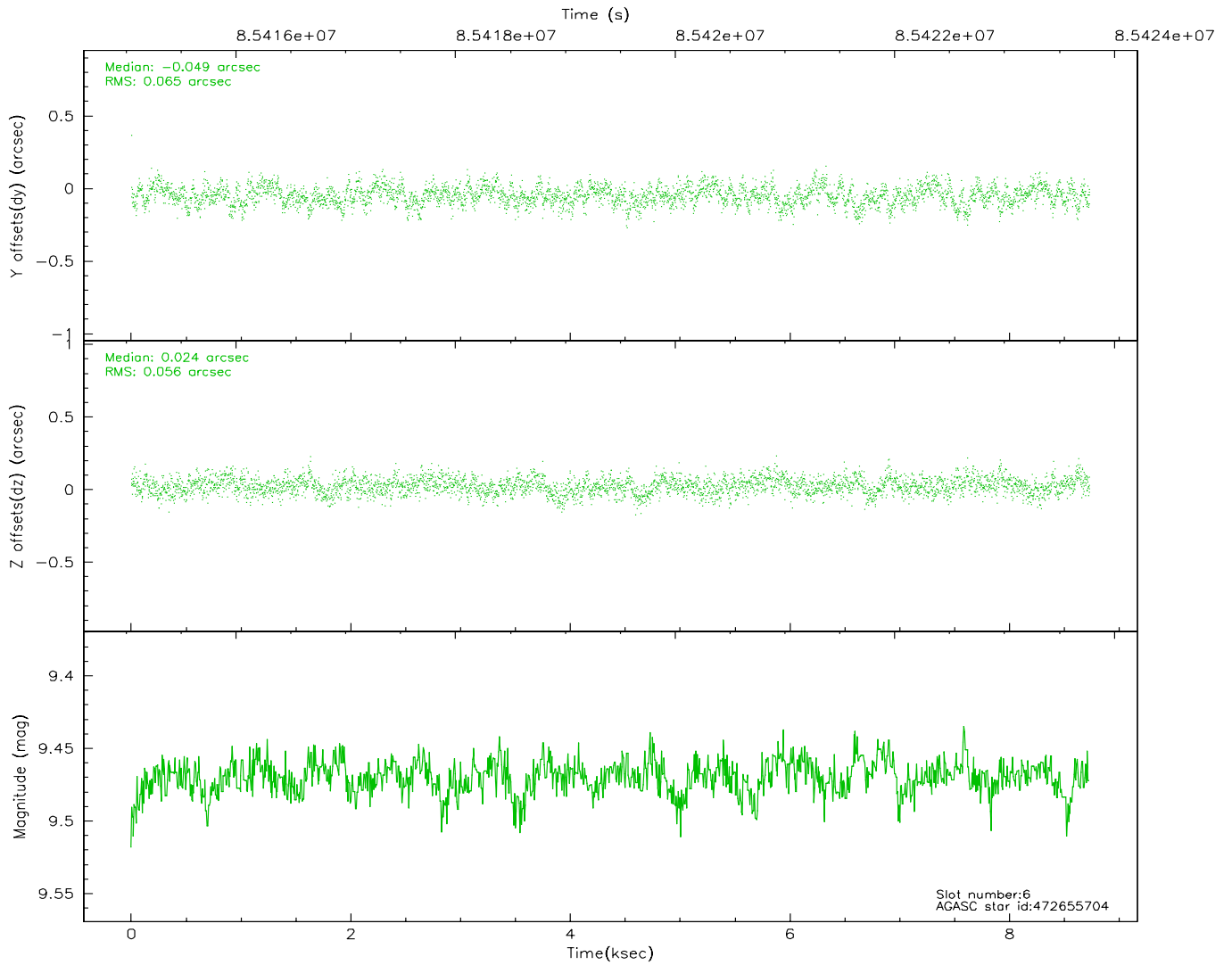
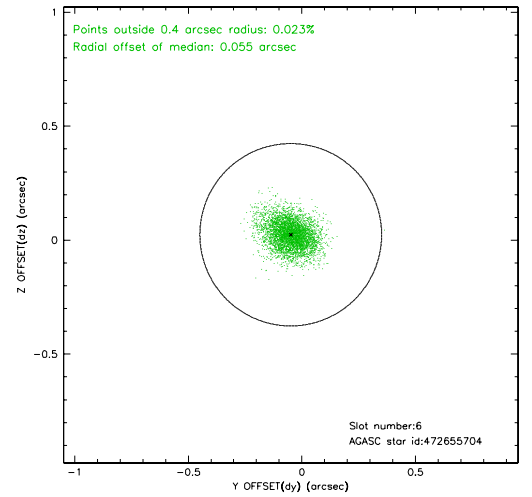
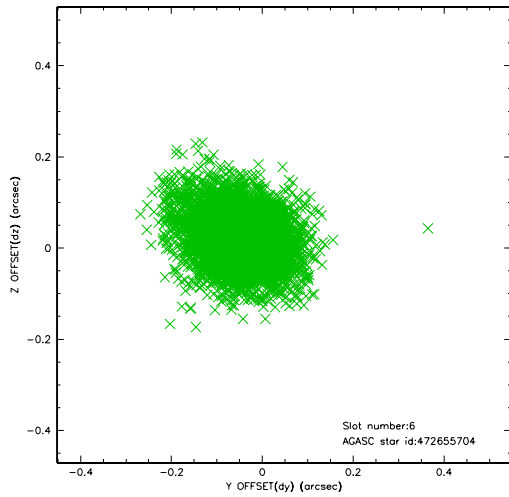
2.4.2 Slot 4



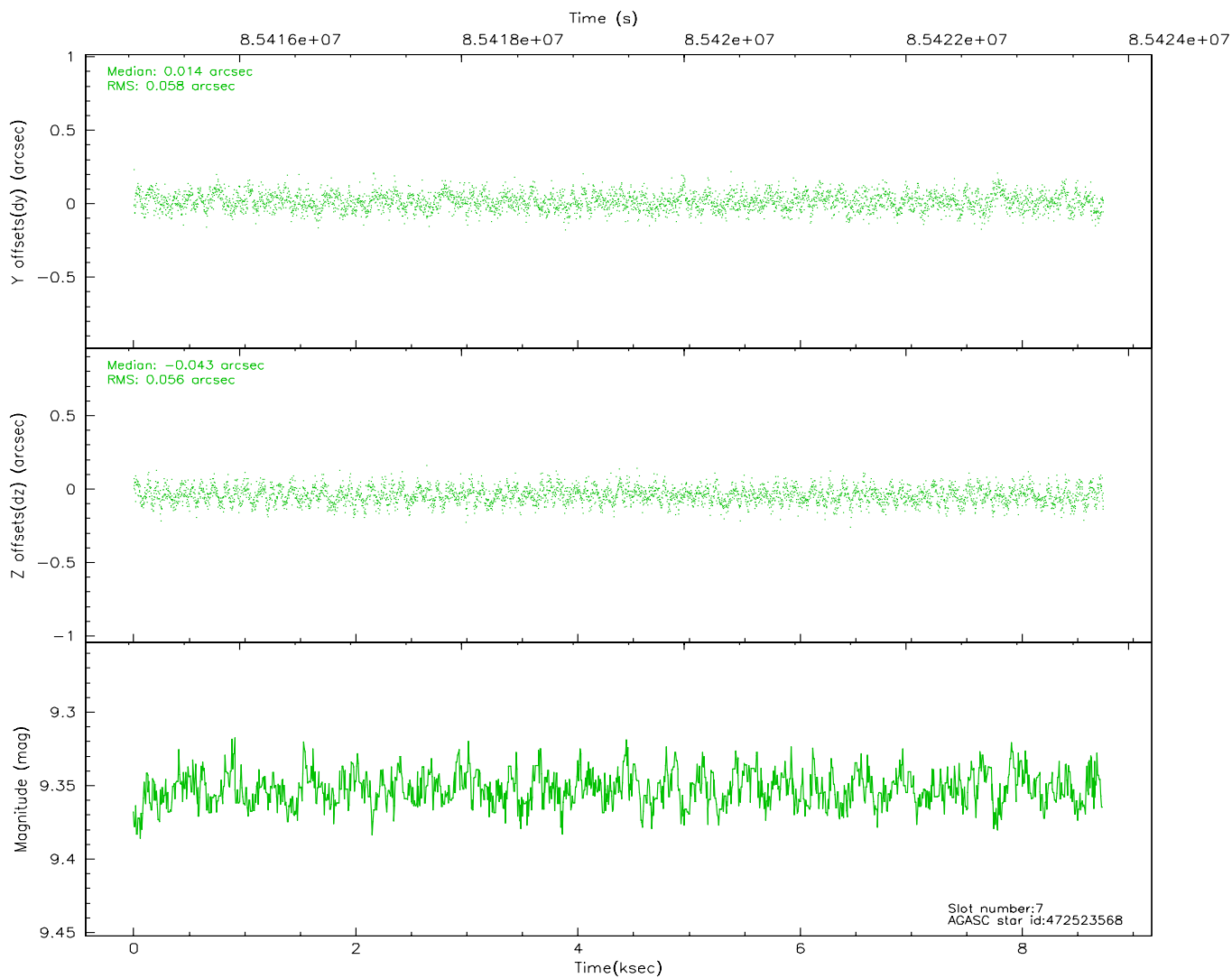
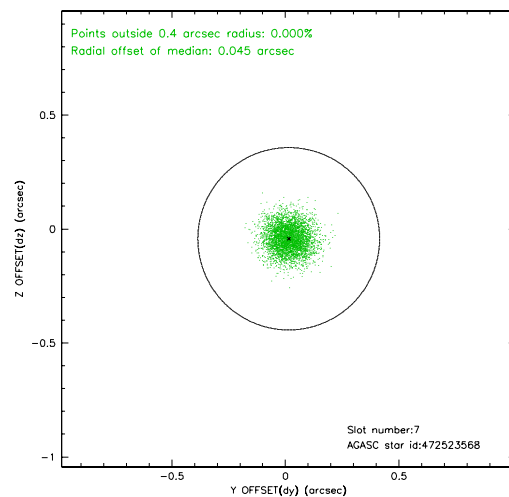
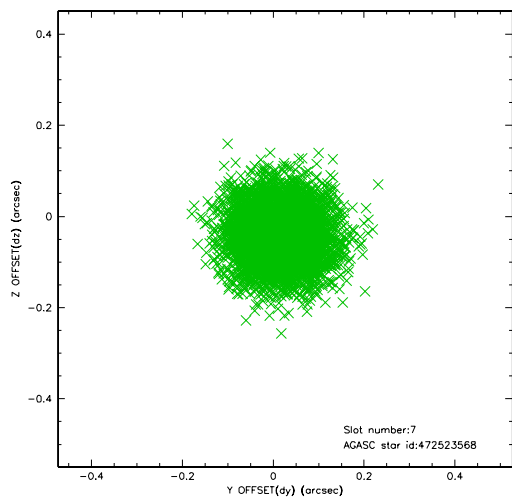
2.4.3 Slot 5



2.4.4 Slot 6

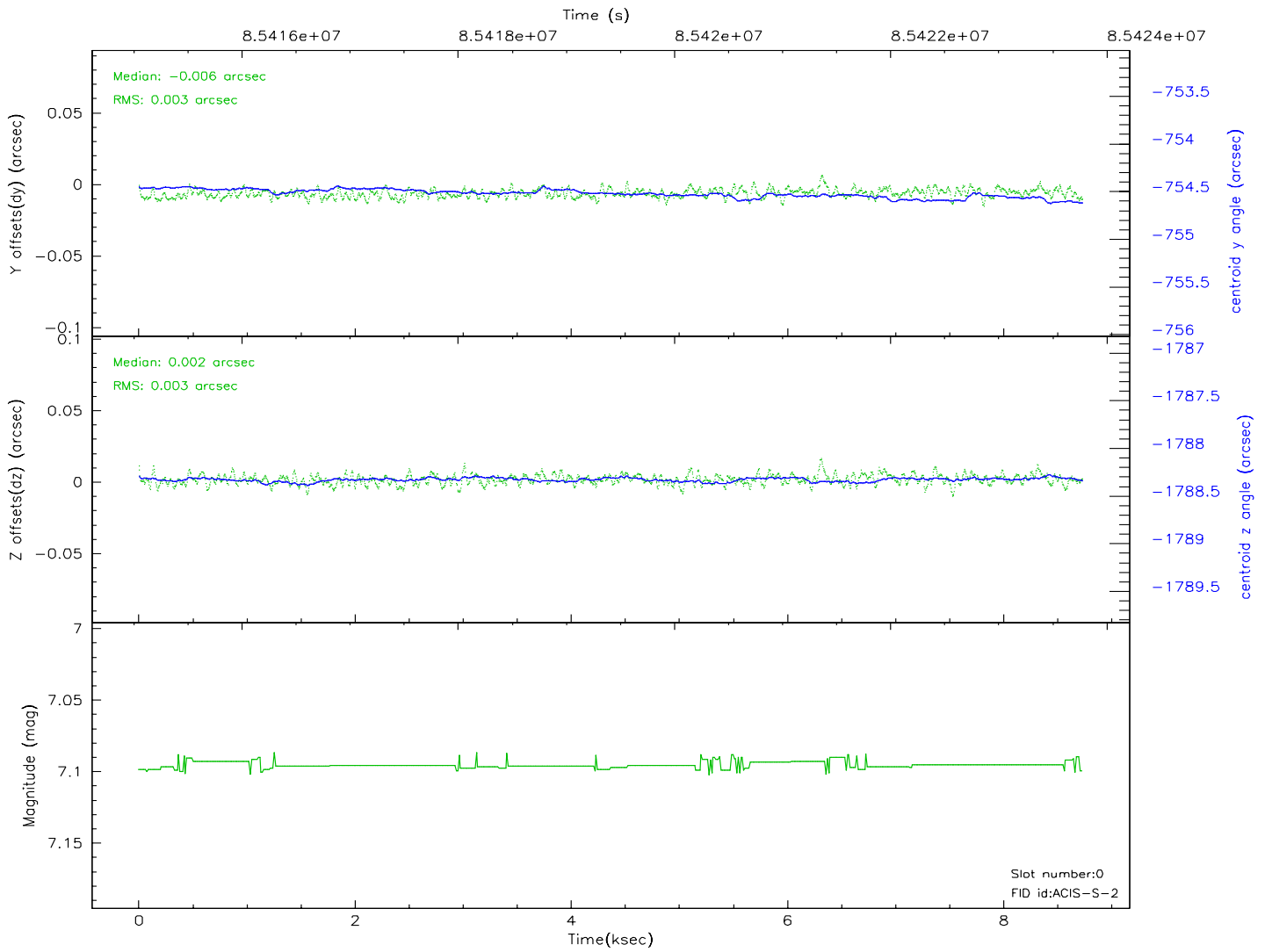
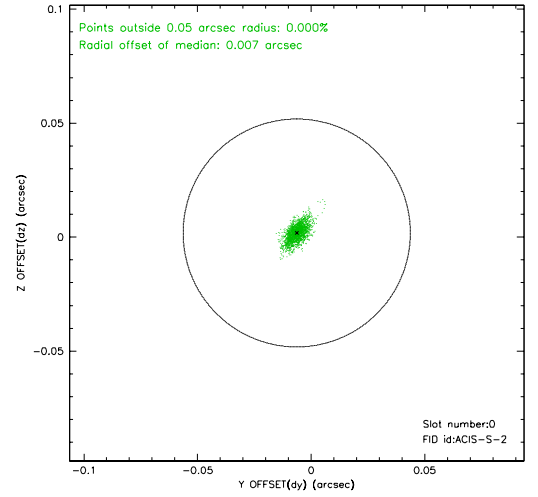
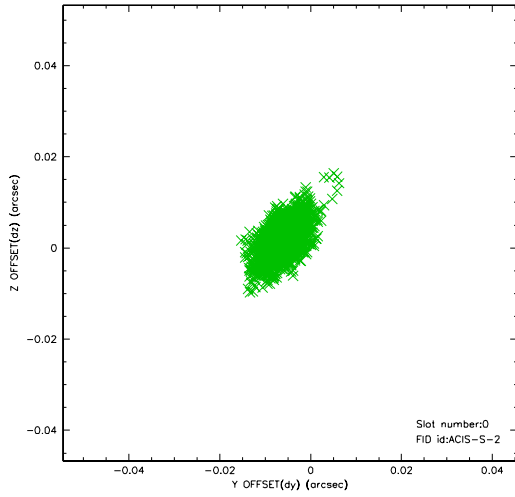


2.4.5 Slot 7

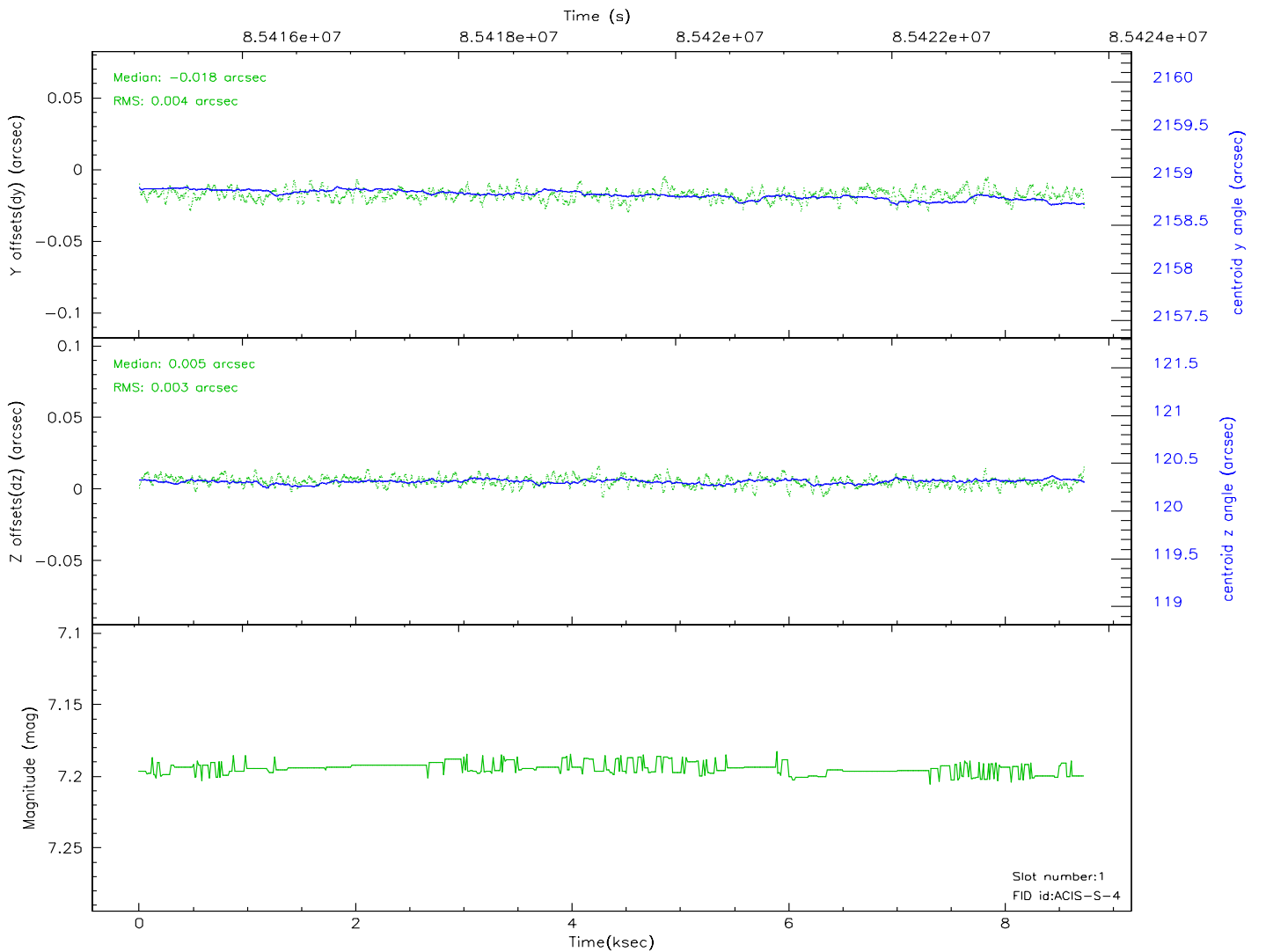
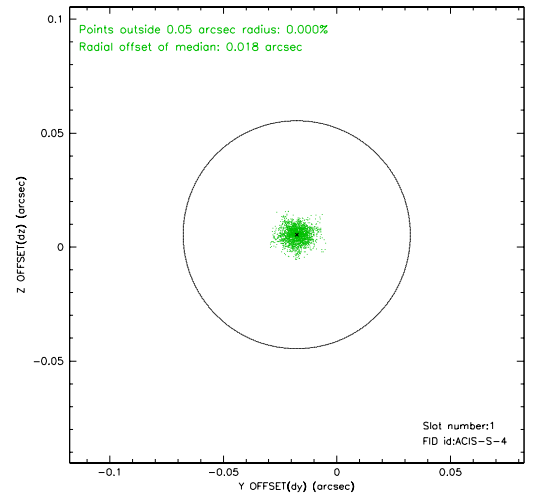
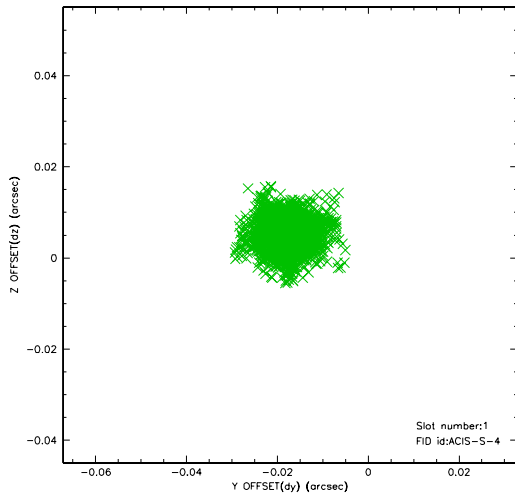


2.5 FID Slots

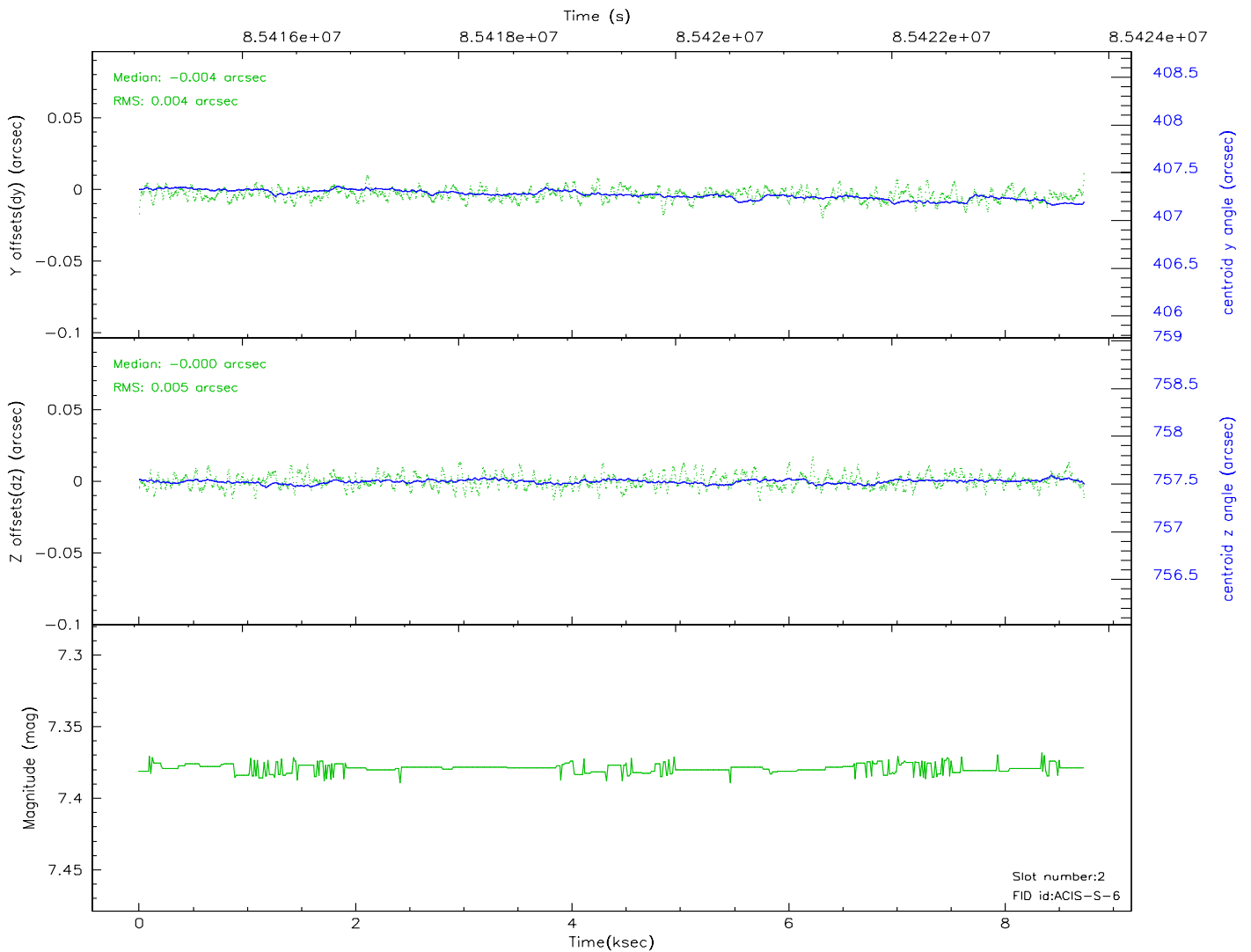
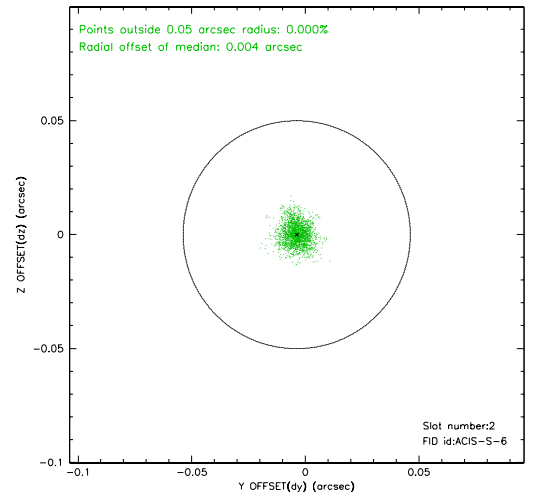
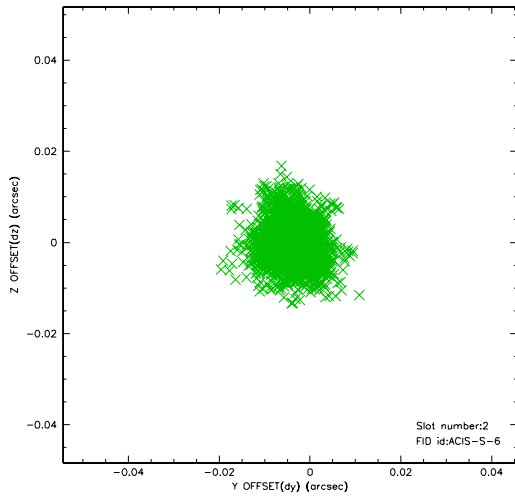
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

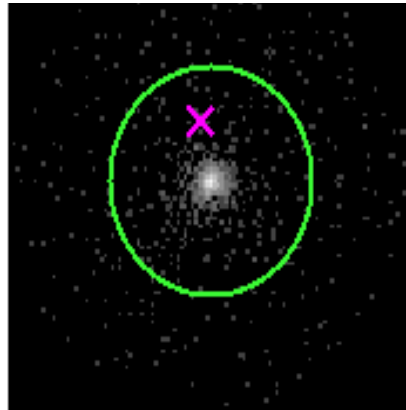


3 Gratings

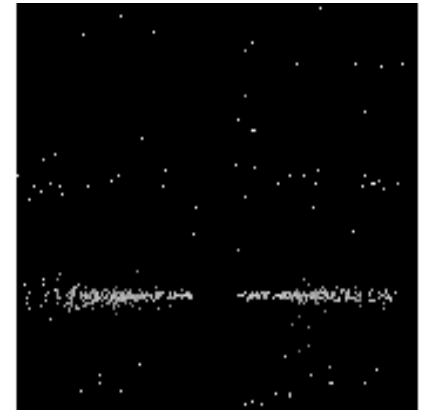
3.1 HEG Arm



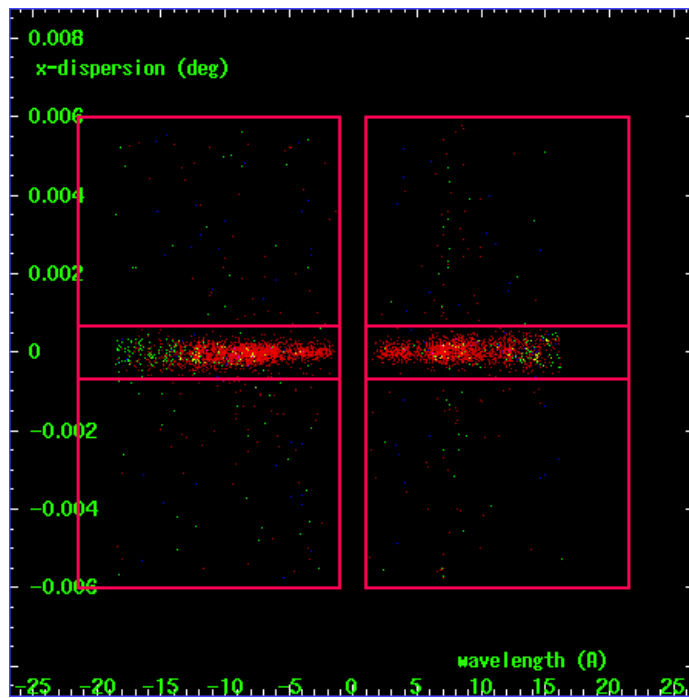
HEG Order Sort 123



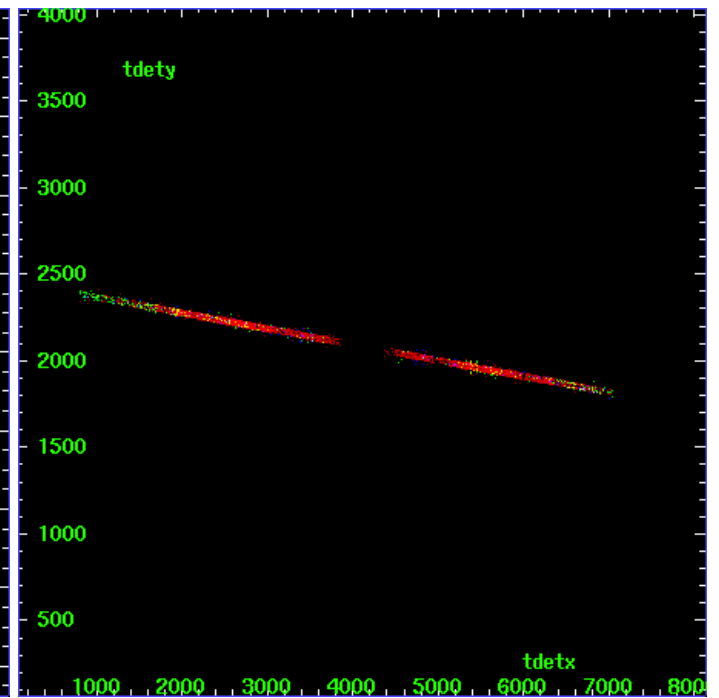
HEG Zero Order



HEG Order Sort ALL

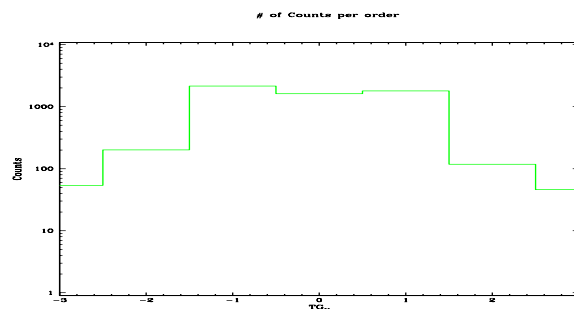


Spot Image HEG

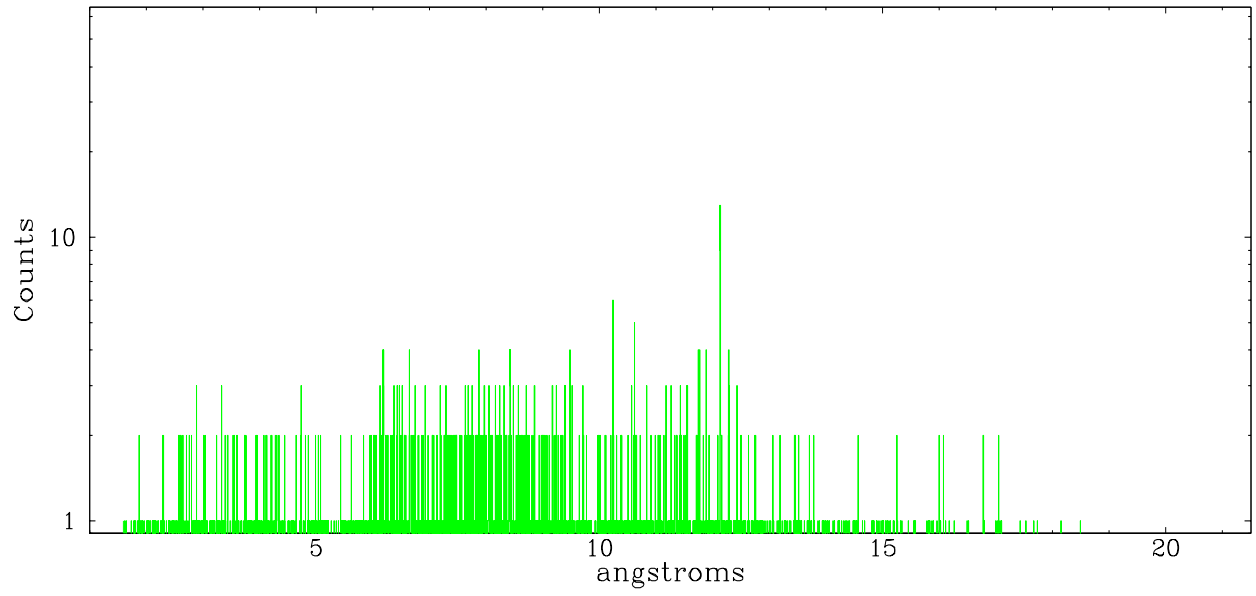


Full Detector HEG

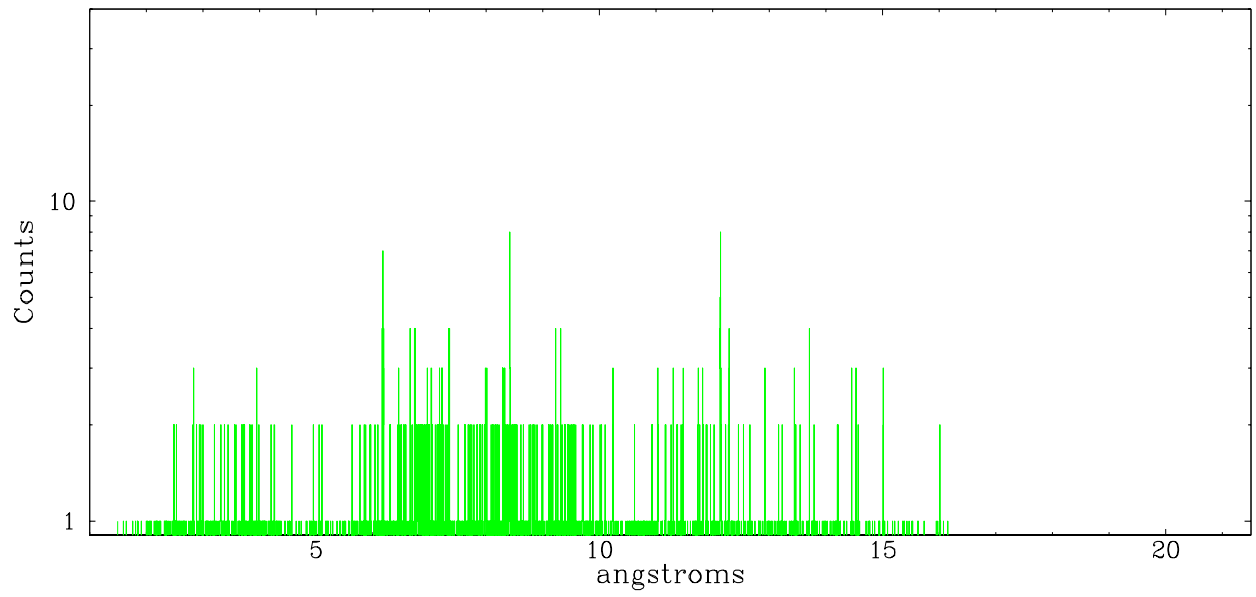
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	54	201	2149	1620	1797	118	46



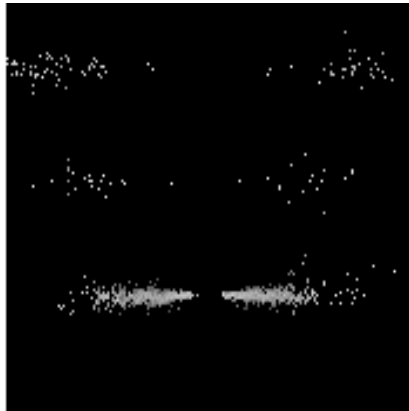
heg order -1



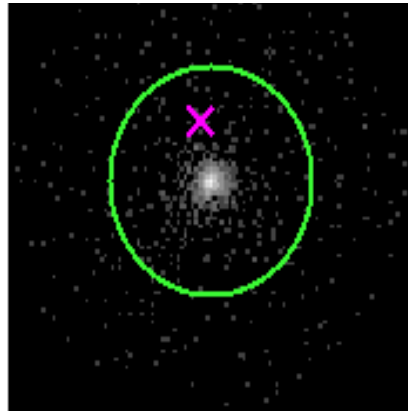
heg order +1



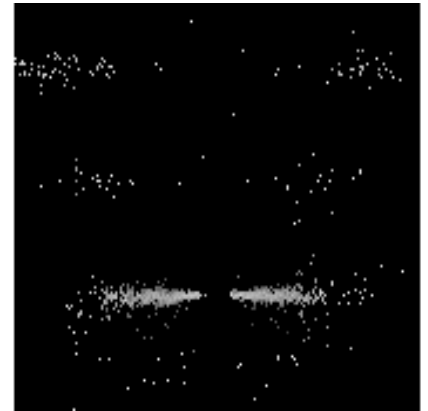
3.2 MEG Arm



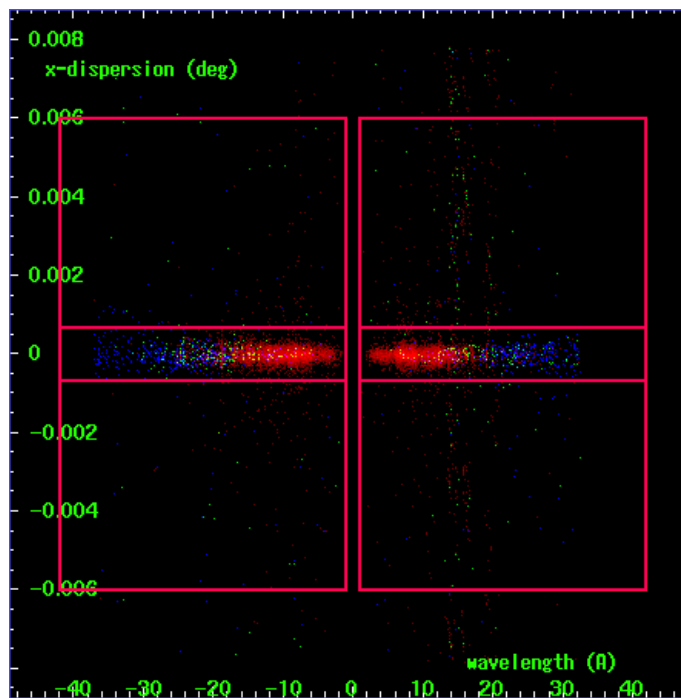
MEG Order Sort 123



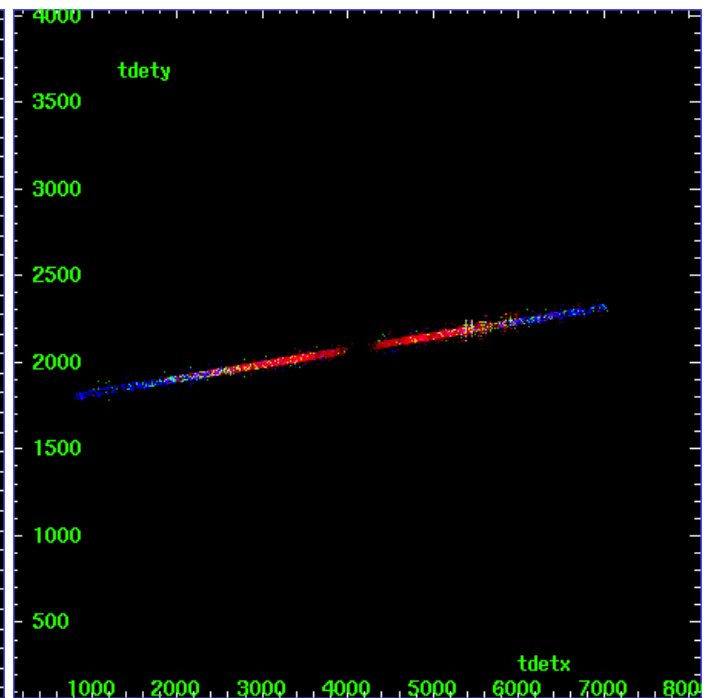
MEG Zero Order



MEG Order Sort ALL

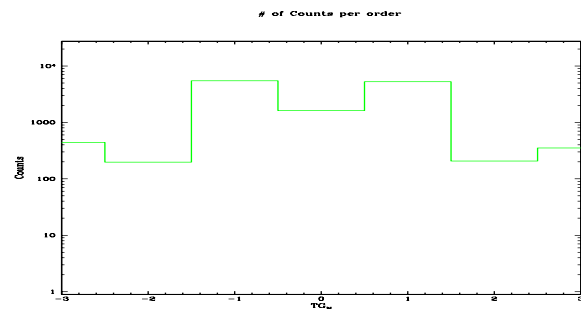


Spot Image MEG

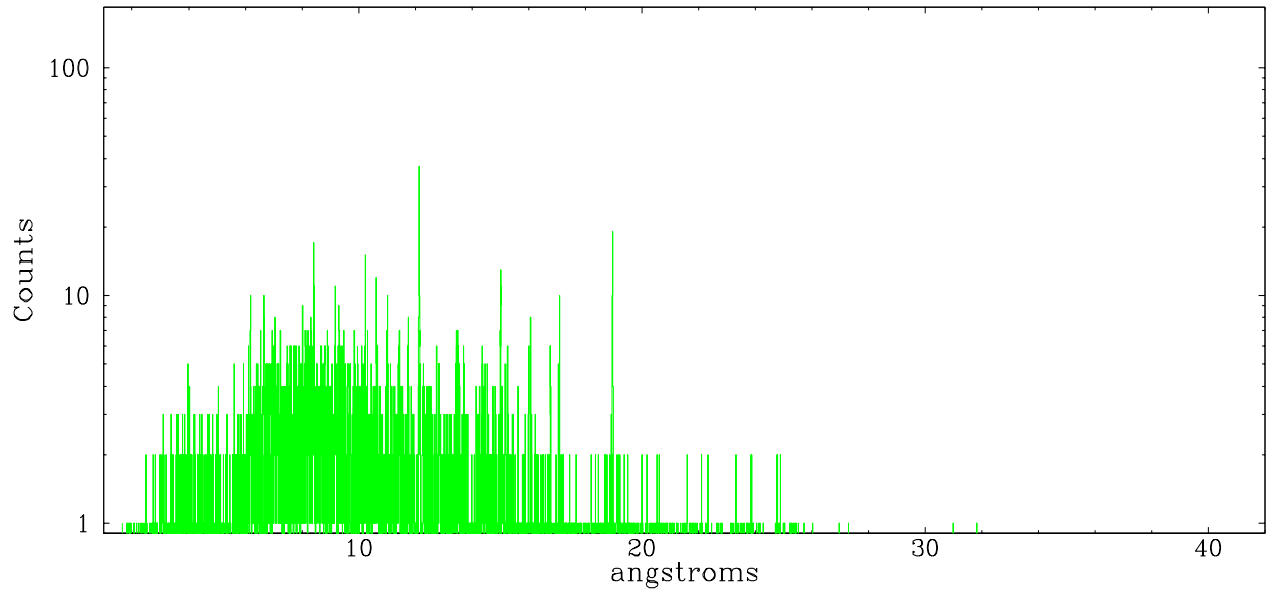


Full Detector MEG

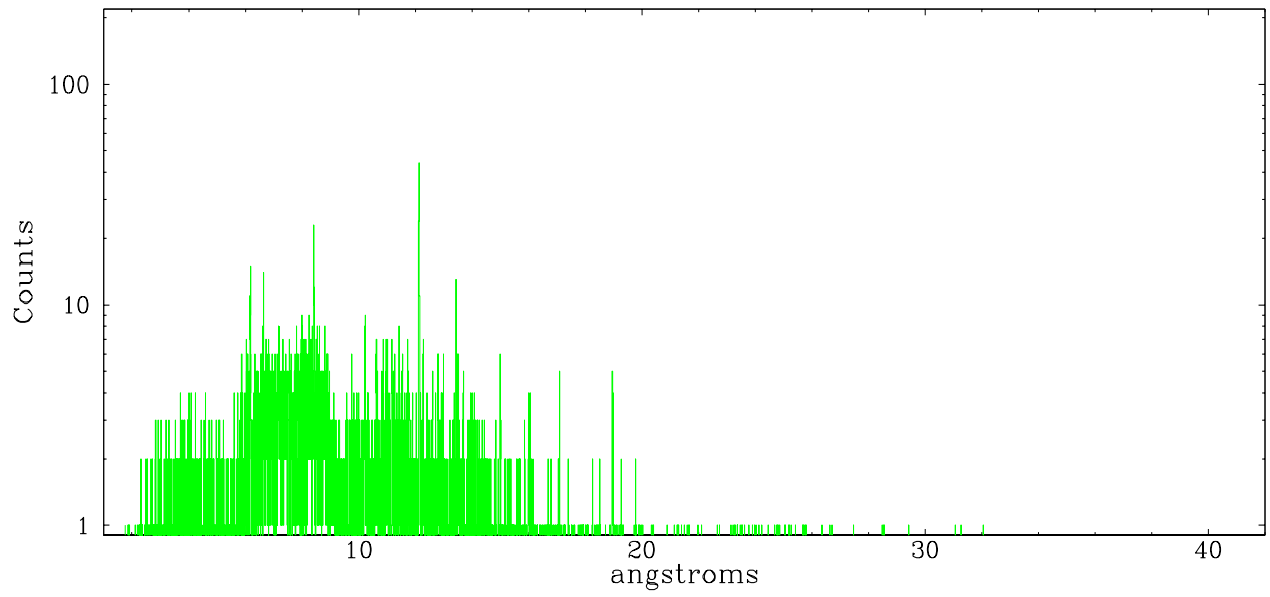
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	444	197	5470	1620	5265	206	352



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2007.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.548

A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 7.548 ks.

Caveat: due to an 0.5 day observer error on the ephemeris, comments on the phase in the header 'OBJECT' are wrong.