

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 7 - L2 Version 001
Chandra X-Ray Center

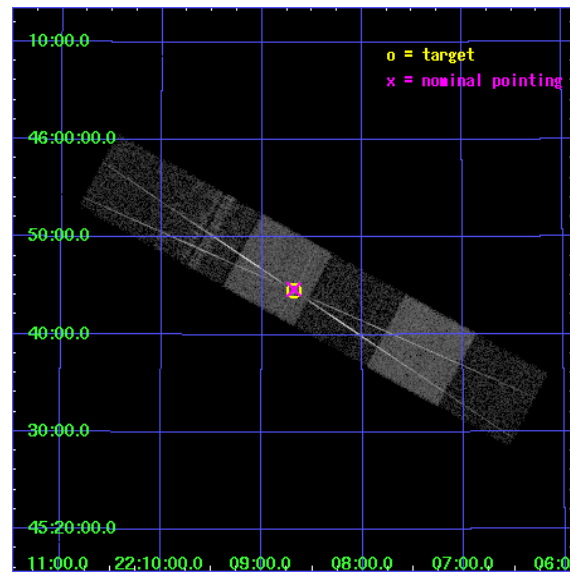
L2 Processing Date : Jun 8 2007

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1 Front

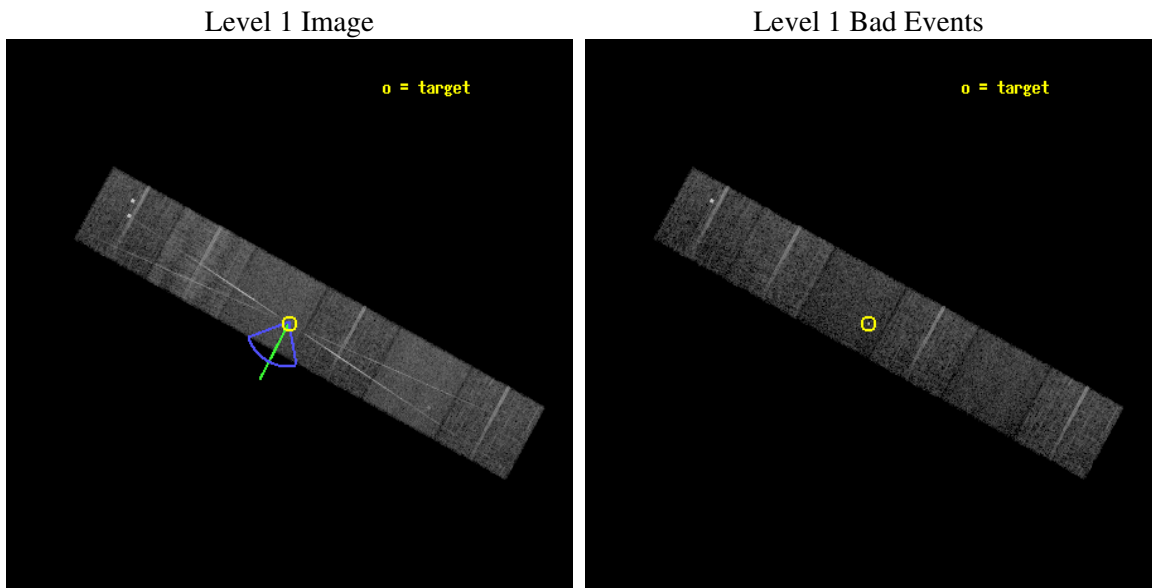
seq_num	200005
obs_id	7
title	STELLAR CORONAL SPECTROSCOPY OF COOL STARS
observer	Prof. Claude Canizares
object	AR LAC-2 FIRST QUAD (1)
dtcycle	0
cycle	P
ra_targ	332.17
dec_targ	45.742222
ra_nom	332.17042455813
dec_nom	45.744374172729
roll_nom	208.76655094594
revision	2
ontime	7449.600006938
livetime	7355.2686860395
ontime4	7449.600006938
ontime5	7449.600006938
ontime6	7449.600006938
ontime7	7449.600006938
ontime8	7446.3590466976
ontime9	7449.600006938
l2events	92020



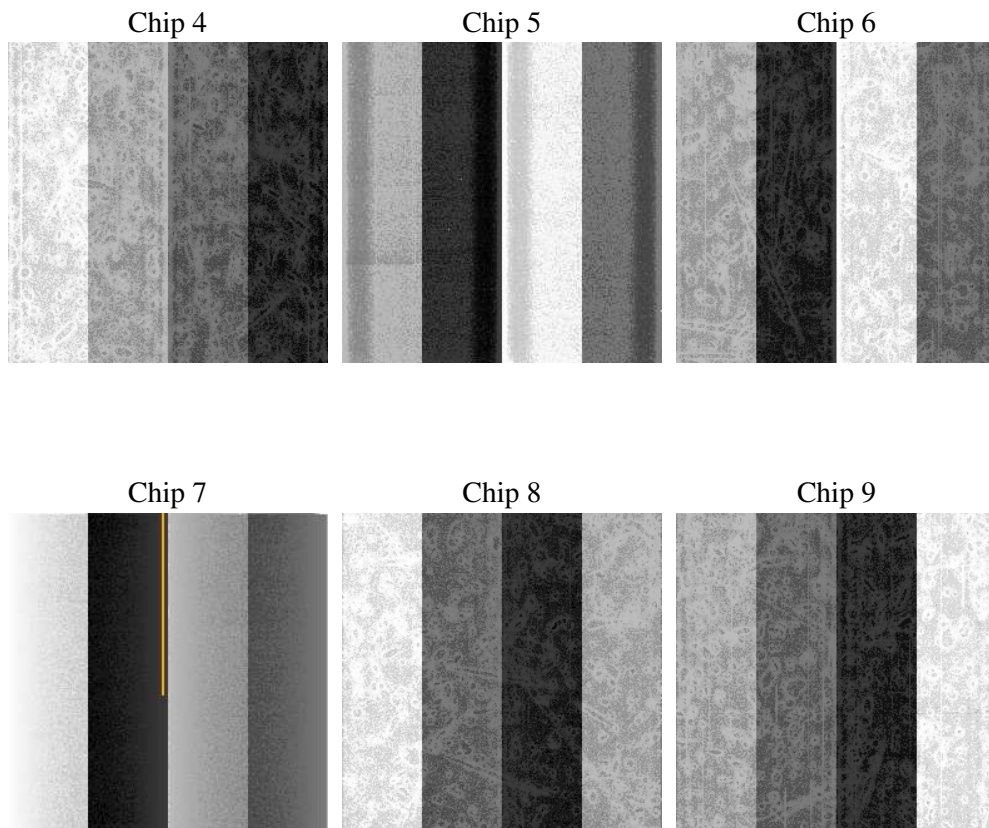
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-08T05:44:41
revision	2

sched_exp_time	7500.000000
ontime	7449.600006938
ontime4	7449.600006938
ontime5	7449.600006938
ontime6	7449.600006938
ontime7	7449.600006938
ontime8	7446.3590466976
ontime9	7449.600006938
l1events	344925

2.1.4 Events

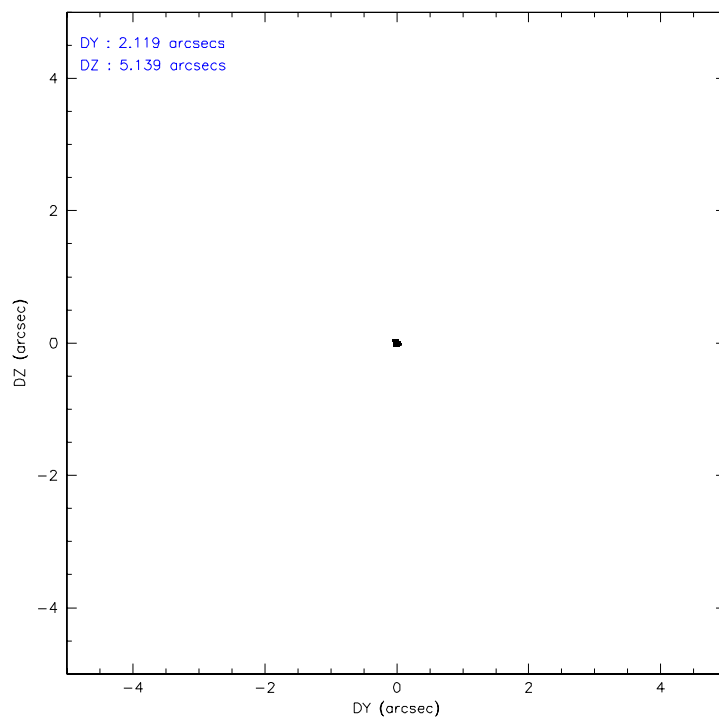
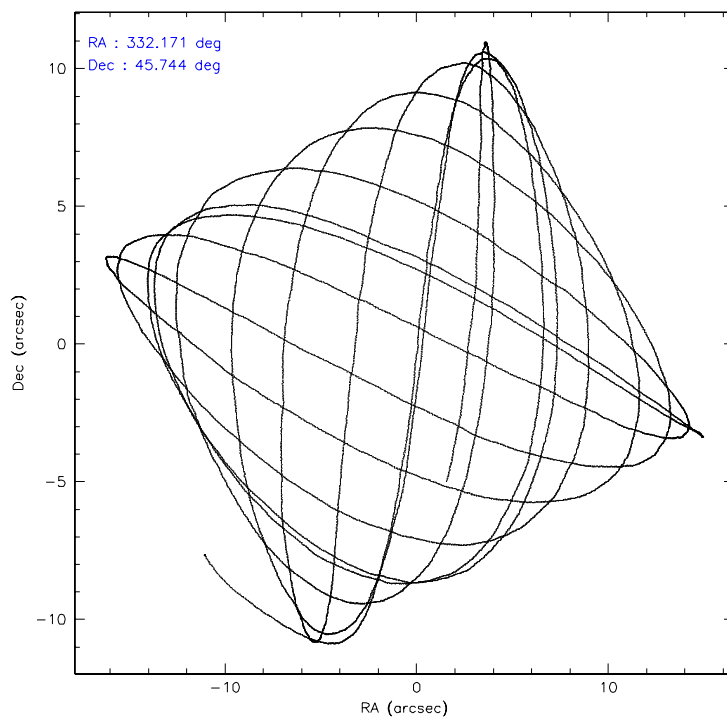
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	49553	60241	53577	61479	71286	48789
rejected events	42896	31221	40433	32068	45132	40046
rejected %	86%	51%	75%	52%	63%	82%

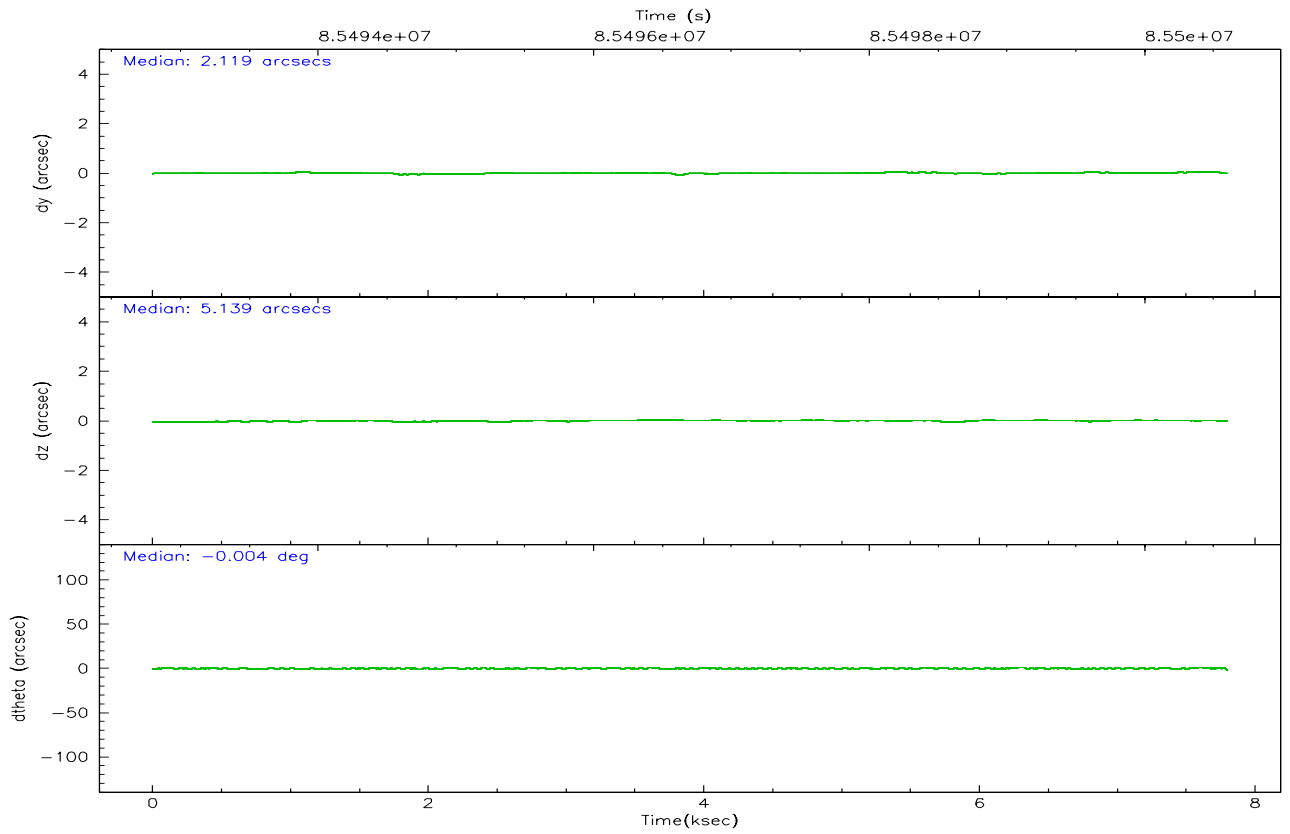
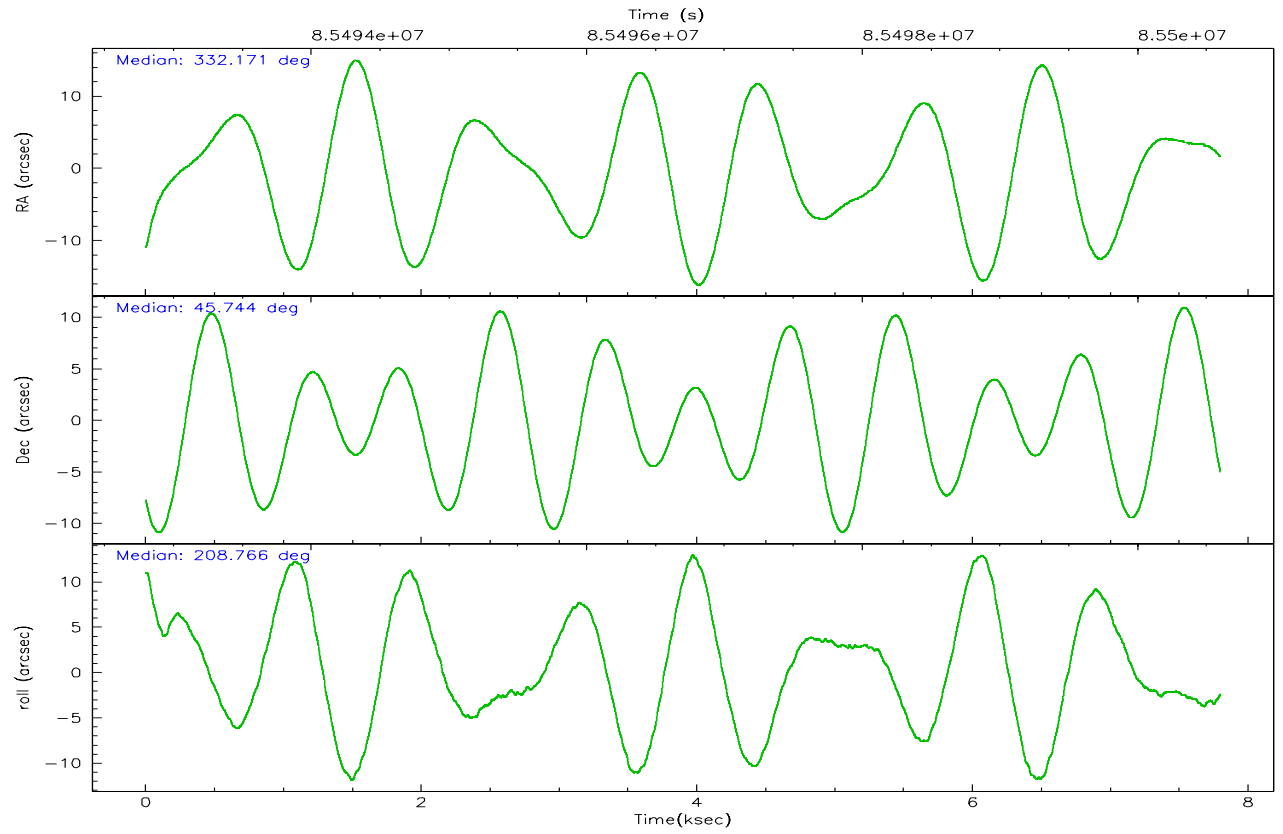
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3023	3449	8402	3769	10702	5289
	6%	5%	15%	6%	15%	10%
grade 1 events	18	74	43	97	59	2045
	0%	0%	0%	0%	0%	4%
grade 2 events	1633	8501	2082	6080	4196	1244
	3%	14%	3%	9%	5%	2%
grade 3 events	501	1490	765	2724	3158	508
	1%	2%	1%	4%	4%	1%
grade 4 events	516	1461	724	2869	2863	627
	1%	2%	1%	4%	4%	1%
grade 5 events	1458	4324	1793	5279	2298	1726
	2%	7%	3%	8%	3%	3%
grade 6 events	988	14140	1182	13999	5243	1081
	1%	23%	2%	22%	7%	2%
grade 7 events	41416	26802	38586	26662	42767	36269
	83%	44%	72%	43%	59%	74%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	332.190496	332.1704245581276	Subarray requested	NONE	NONE
Pointing Dec	45.767870	45.74437417272858	Alternating exposures requested	N	N
Pointing Roll	208.595538	208.7665509459372	Primary exposure time	3.200000	3.2
Roll angle	210.000000	210.000000			
Roll tolerance	40.000000	40.000000			
Roll constraint allows 180D rotation	N	N			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Phase constraints	Y	Y			
Phase period	1.983180	1.983180			
Phase epoch	48501.123200	48501.123200			
Phase start	0.228000	0.228000			
Phase end	0.272000	0.272000			
Phase start error	0.080000	0.080000			
Phase end error	0.080000	0.080000			
Observation start time	85493099.184000	85492083.626875			
Observation start date	2000-09-16T12:03:55	2000-09-16T11:48:03			
Observation end	85500599.184000	85501563.85223199			

2.3 Aspect



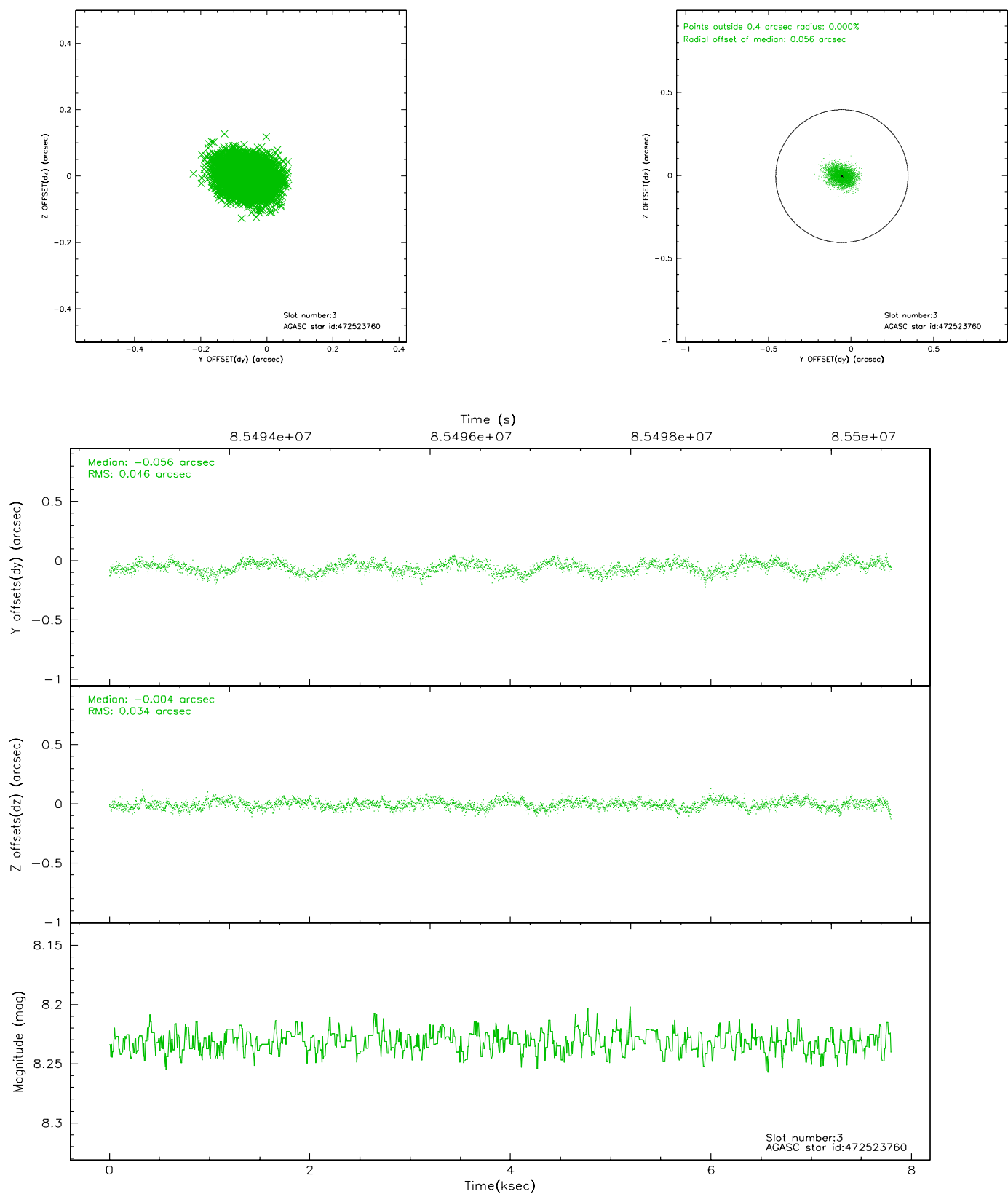


Slot Statistics

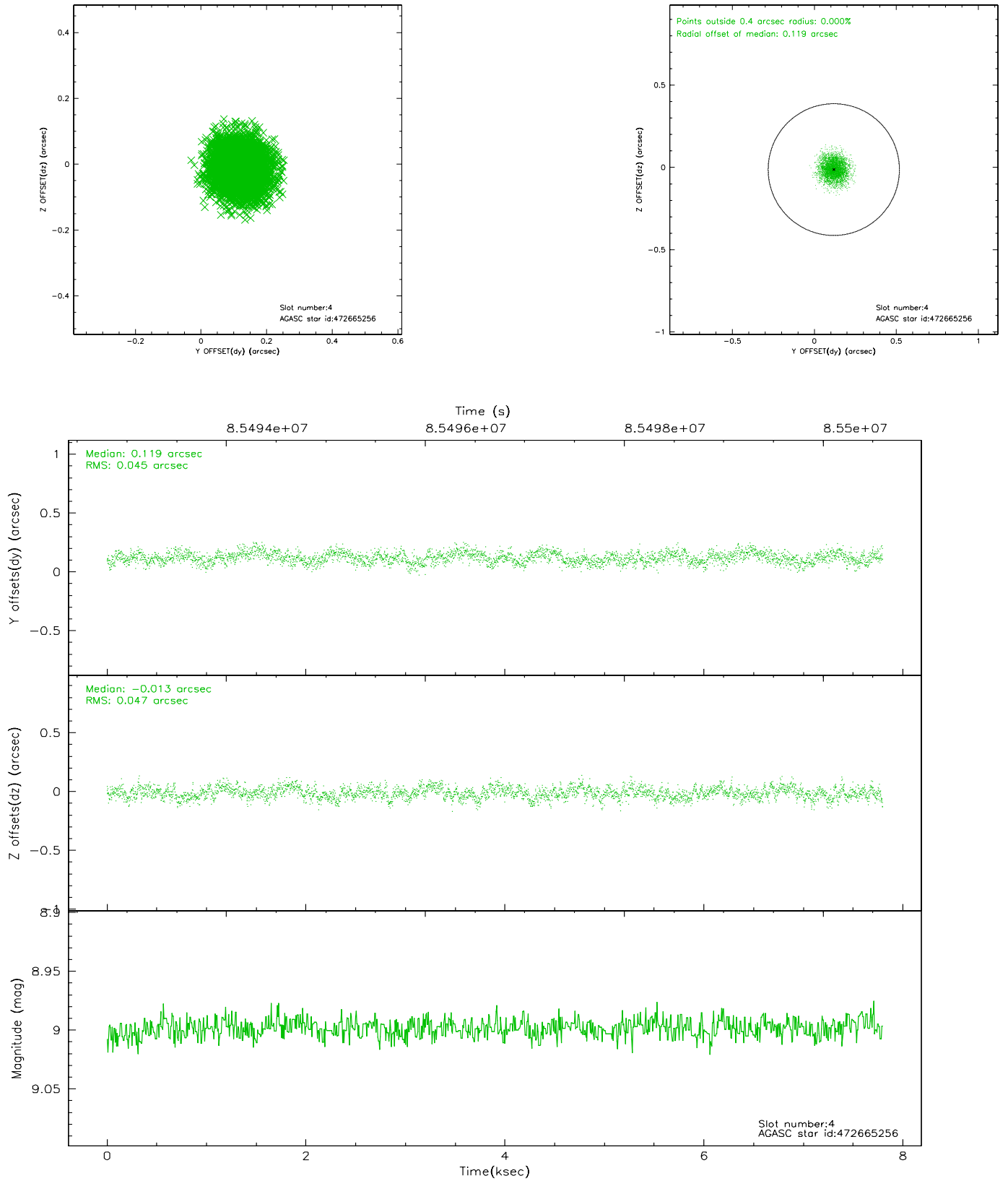
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1902	-0.007	0.001	0.005	0.010	0.000000	0.000000	-754.54	-1788.39
1	FID	ACIS-S-4	7.20	1902	-0.019	0.006	0.006	0.010	0.000000	0.000000	2158.40	119.32
2	FID	ACIS-S-6	7.38	1902	-0.002	-0.000	0.007	0.011	0.000000	0.000000	408.39	757.53
3	GUIDE	472523760	8.23	3803	-0.056	-0.004	0.061	0.100	331.645363	45.403260	1837.04	488.66
4	GUIDE	472665256	9.00	3804	0.119	-0.013	0.070	0.111	332.808125	46.195041	-2088.36	-619.00
5	GUIDE	472659832	9.45	3802	-0.005	0.051	0.092	0.151	332.780399	46.098139	-1863.90	-344.29
6	GUIDE	472655704	9.47	3804	-0.045	0.020	0.087	0.139	332.167195	45.285228	884.18	1497.01
7	GUIDE	472523568	9.33	3801	-0.014	-0.051	0.173	0.241	331.465966	45.371411	2289.49	369.01

2.4 Star Slots

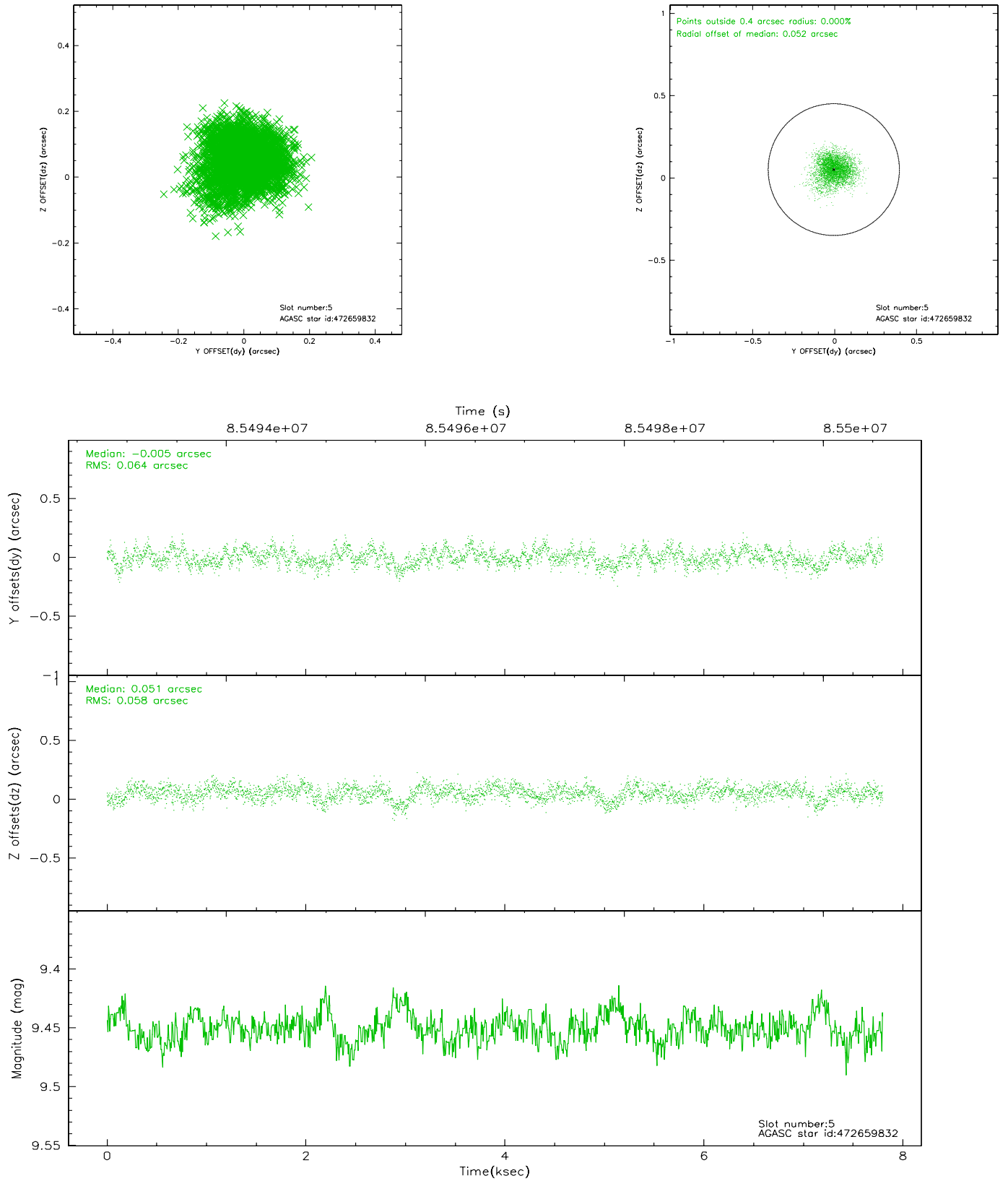
2.4.1 Slot 3



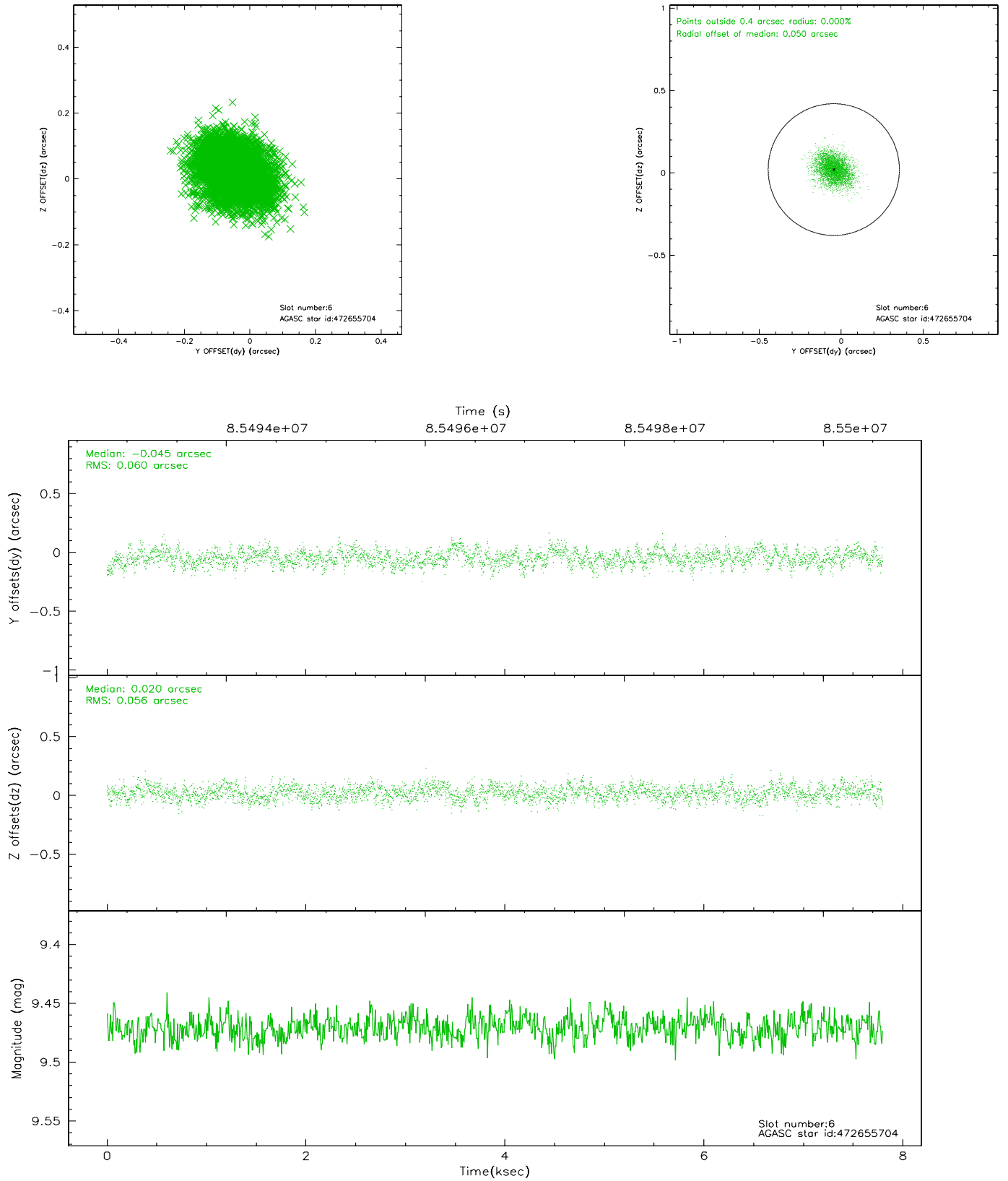
2.4.2 Slot 4



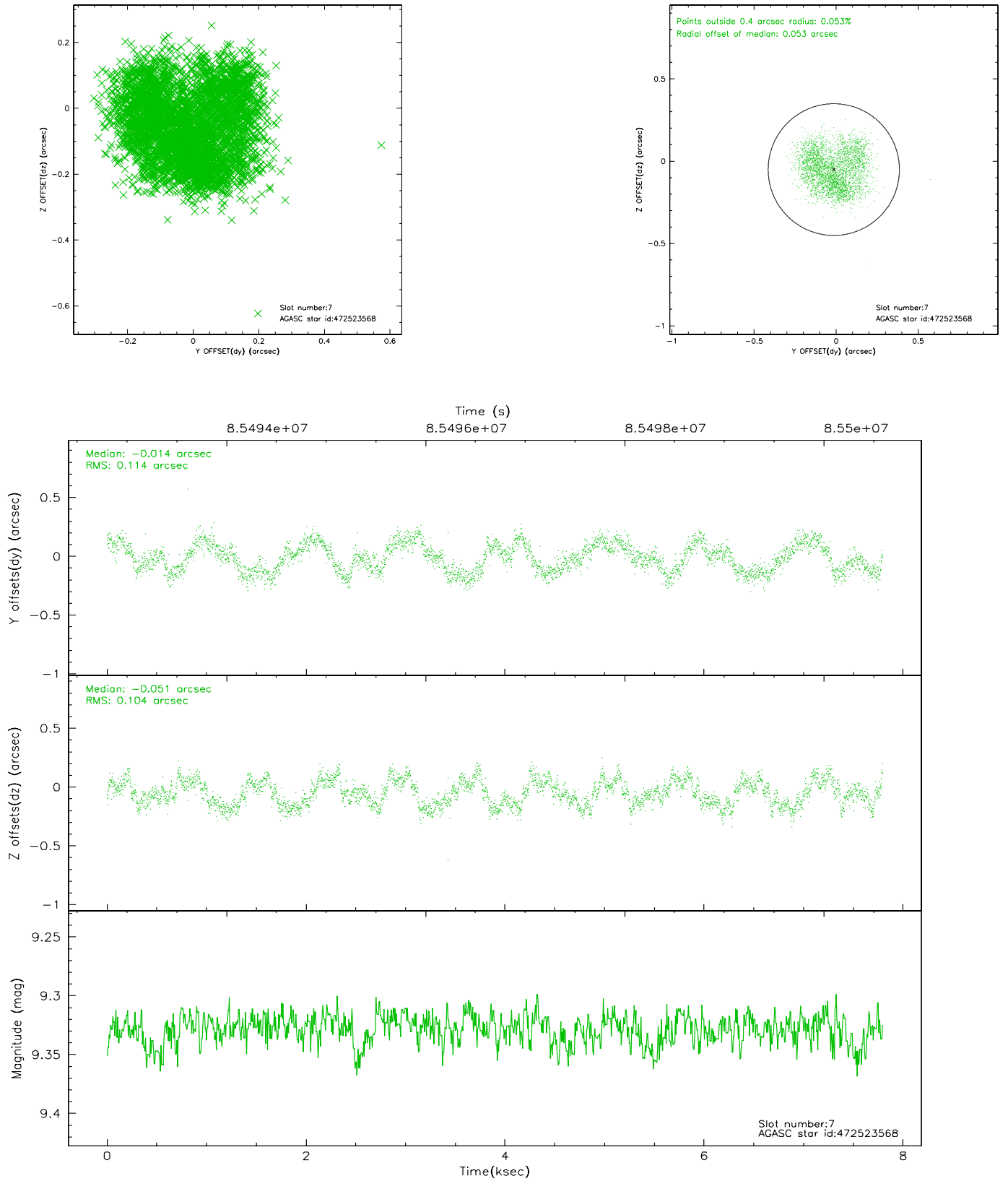
2.4.3 Slot 5



2.4.4 Slot 6

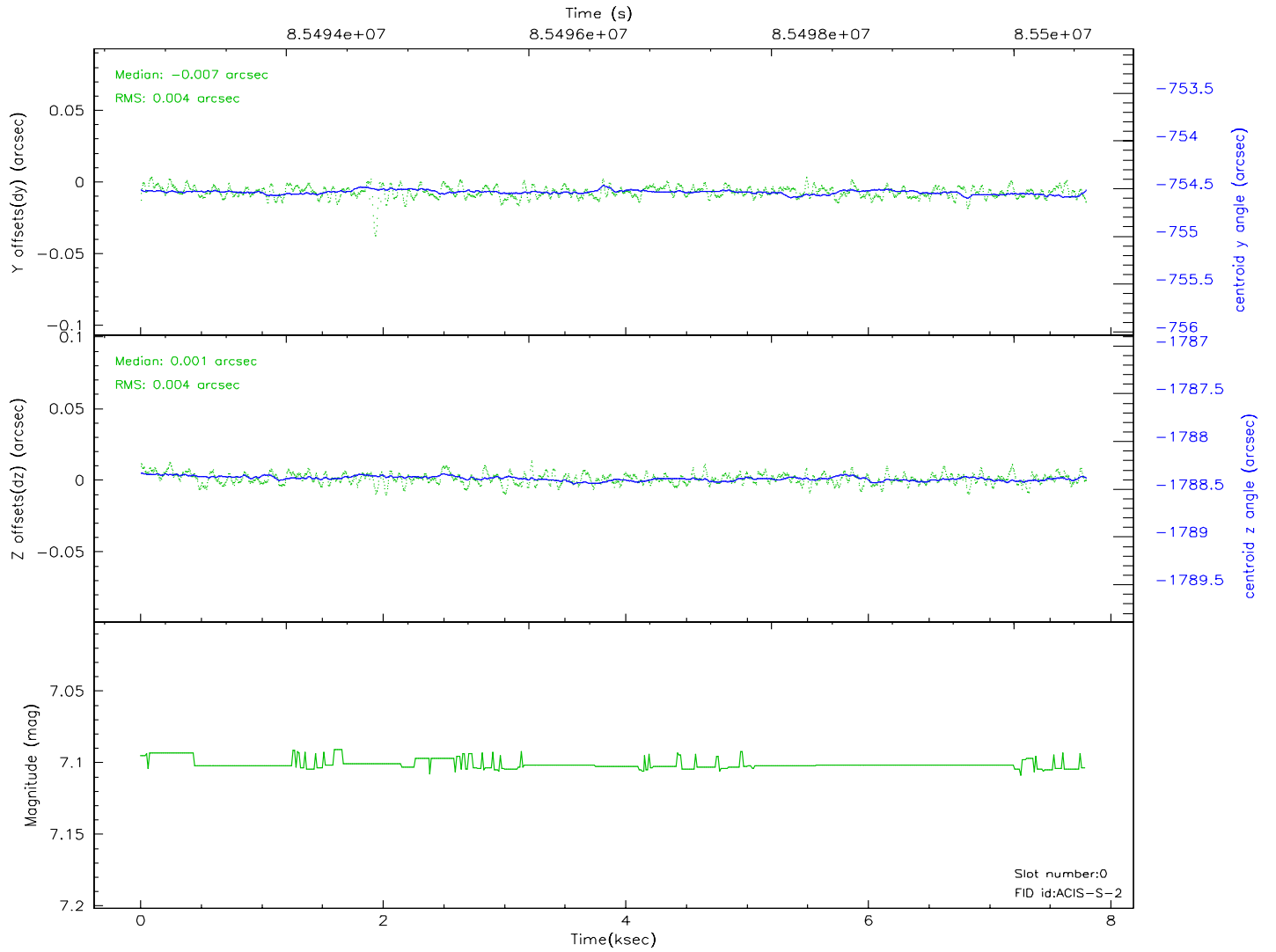
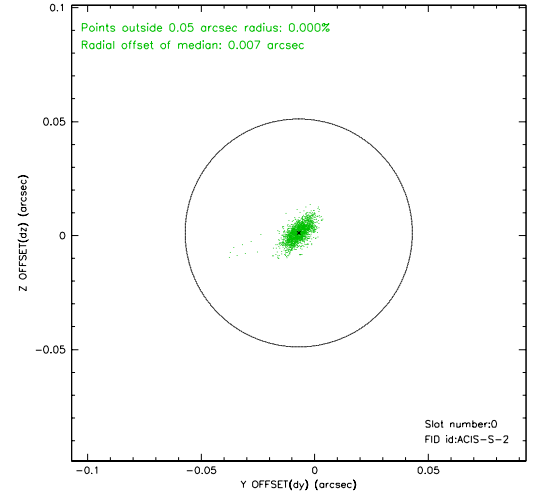
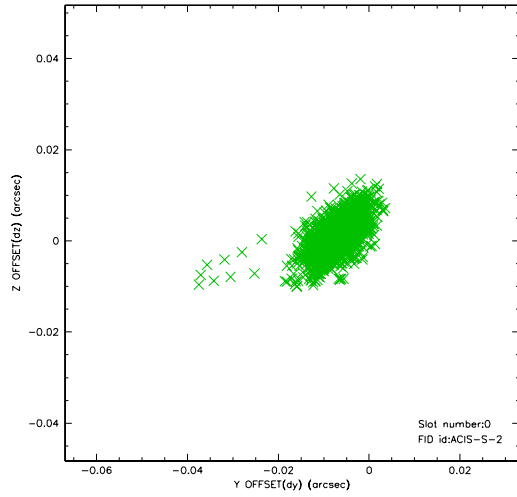


2.4.5 Slot 7

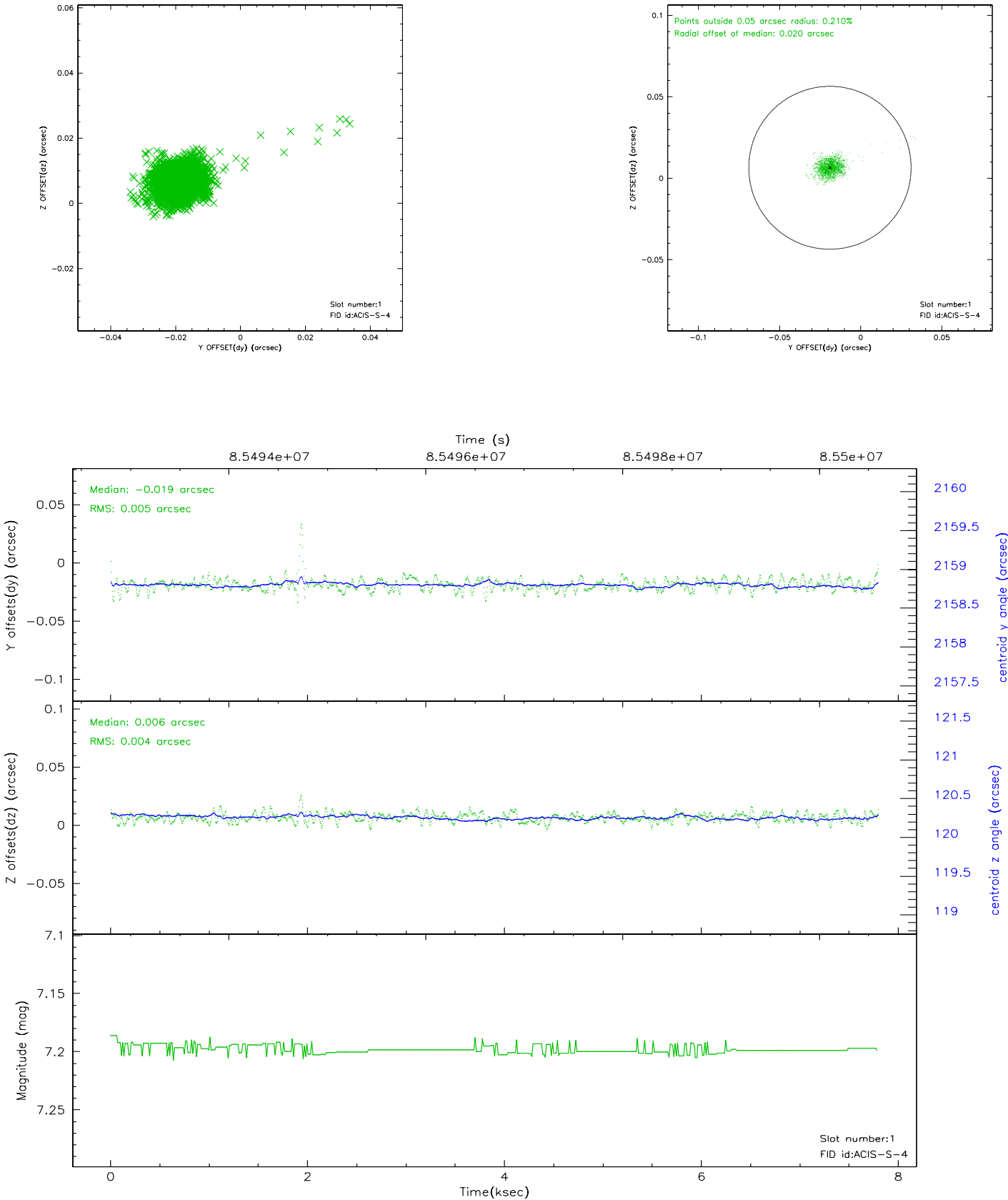


2.5 FID Slots

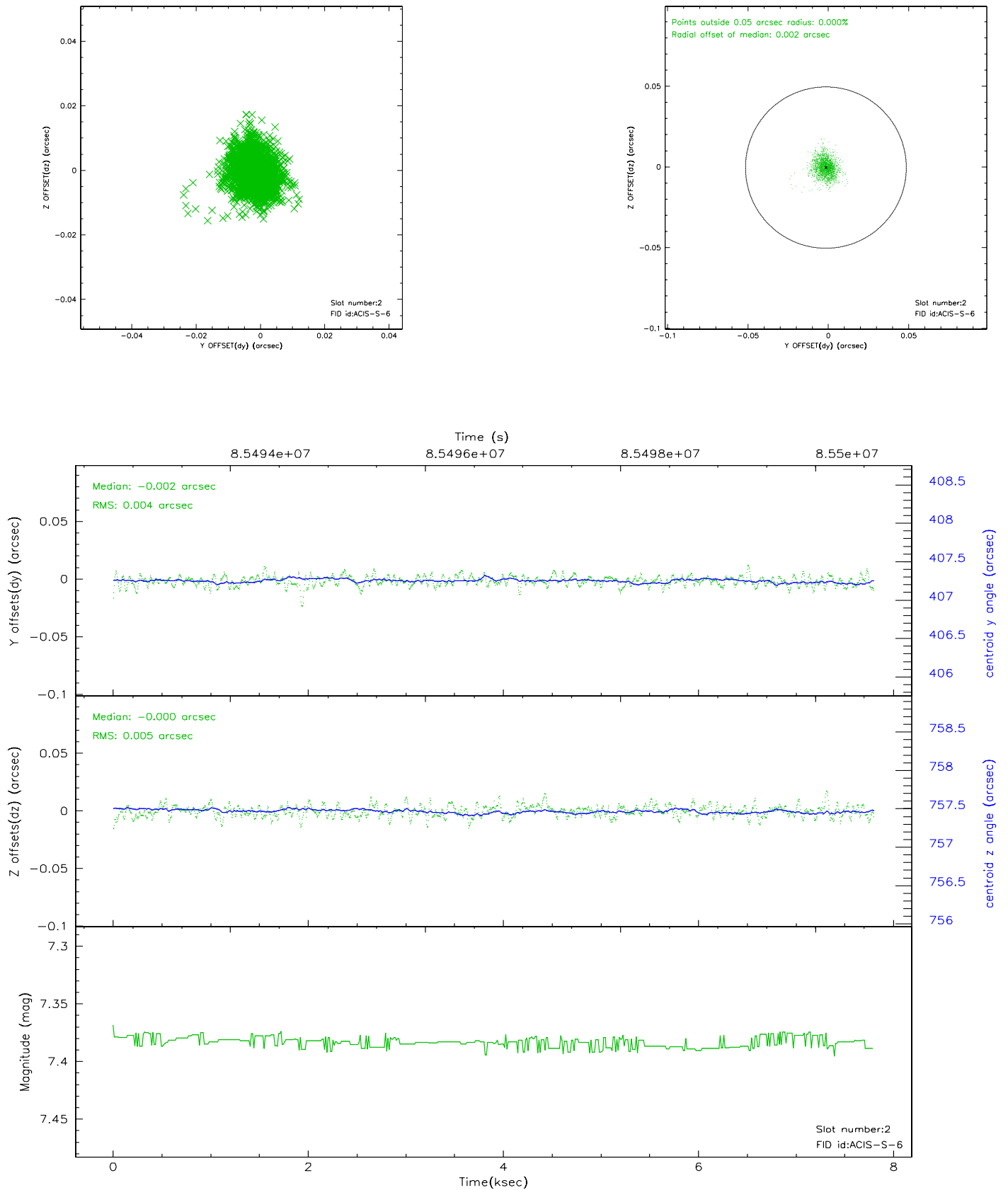
2.5.1 Slot 0



2.5.2 Slot 1

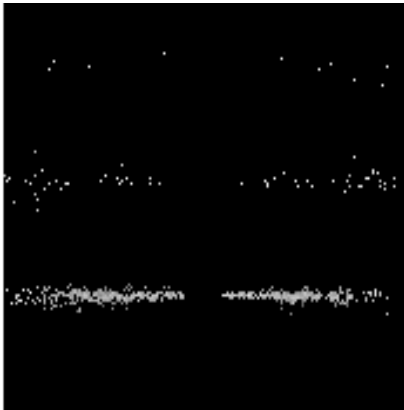


2.5.3 Slot 2

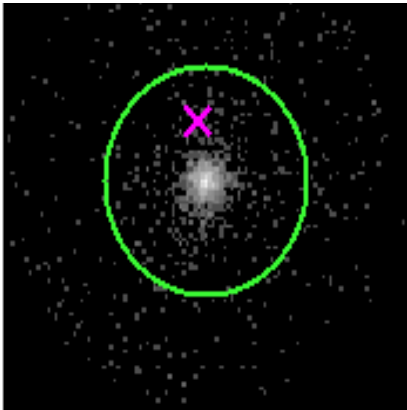


3 Gratings

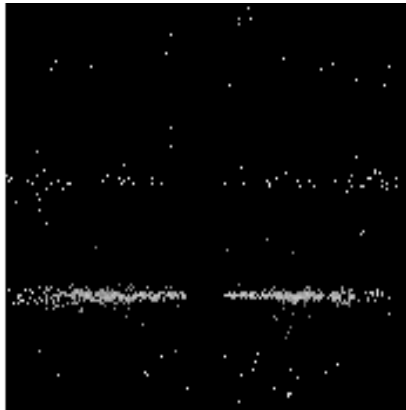
3.1 HEG Arm



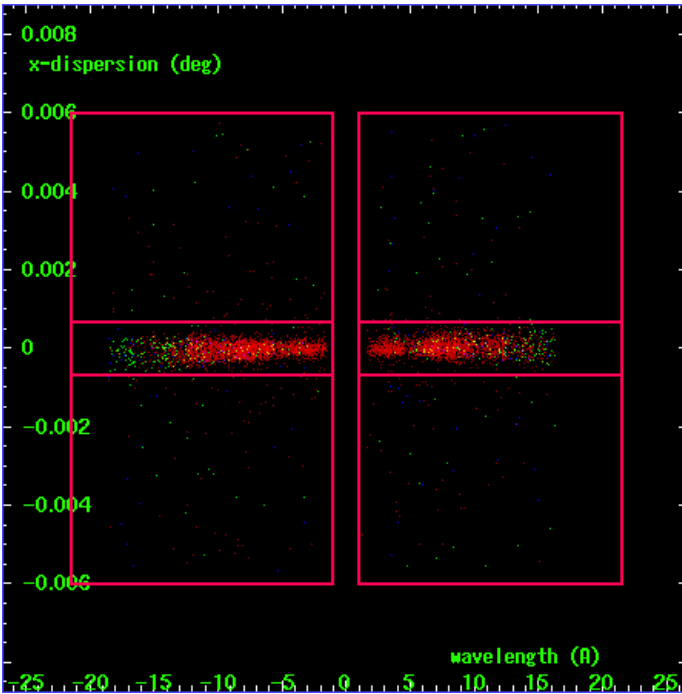
HEG Order Sort 123



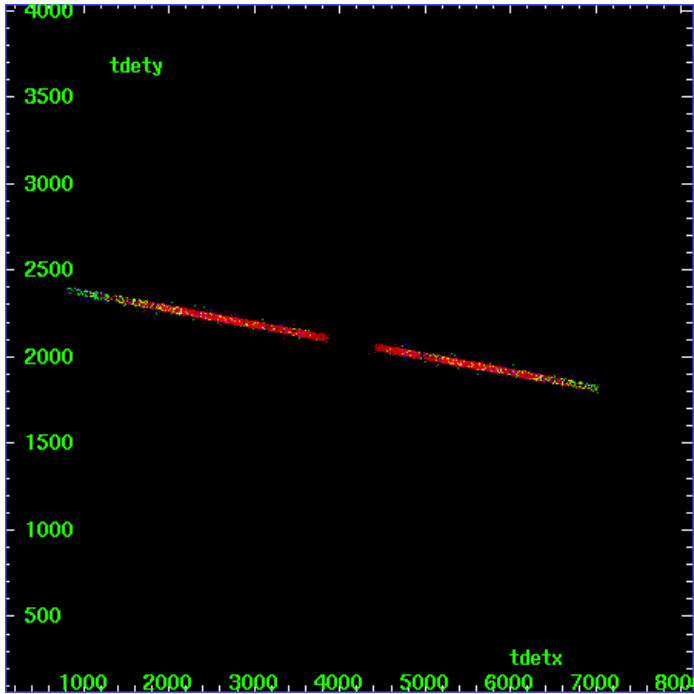
HEG Zero Order



HEG Order Sort ALL

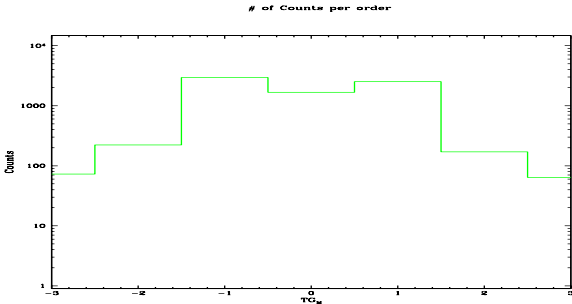


Spot Image HEG

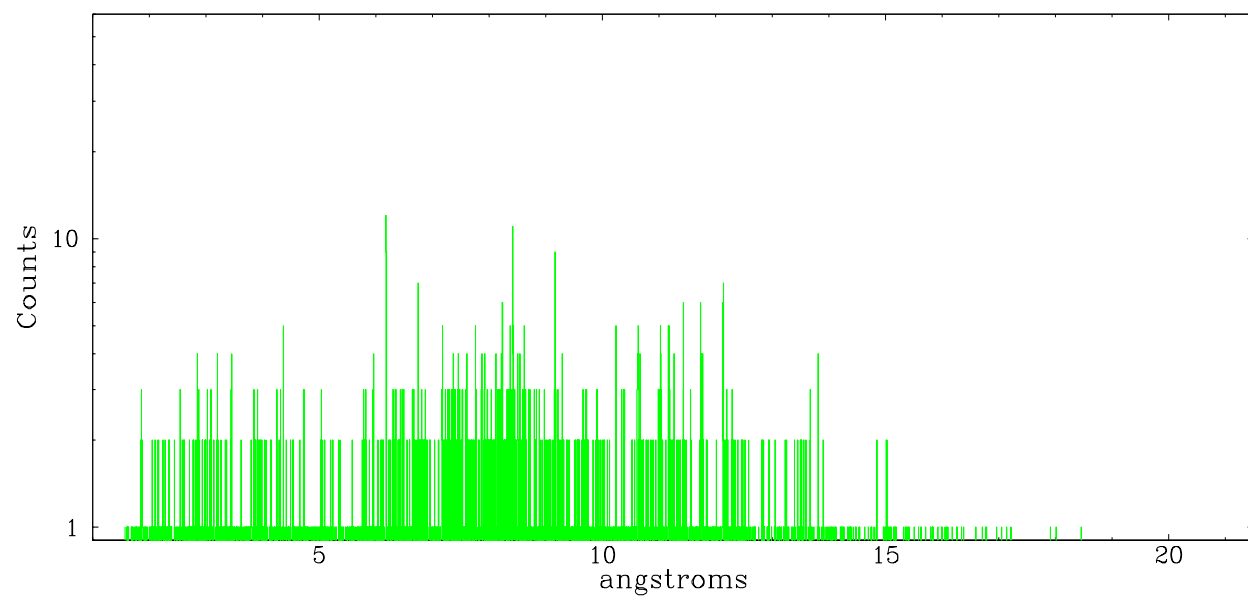


Full Detector HEG

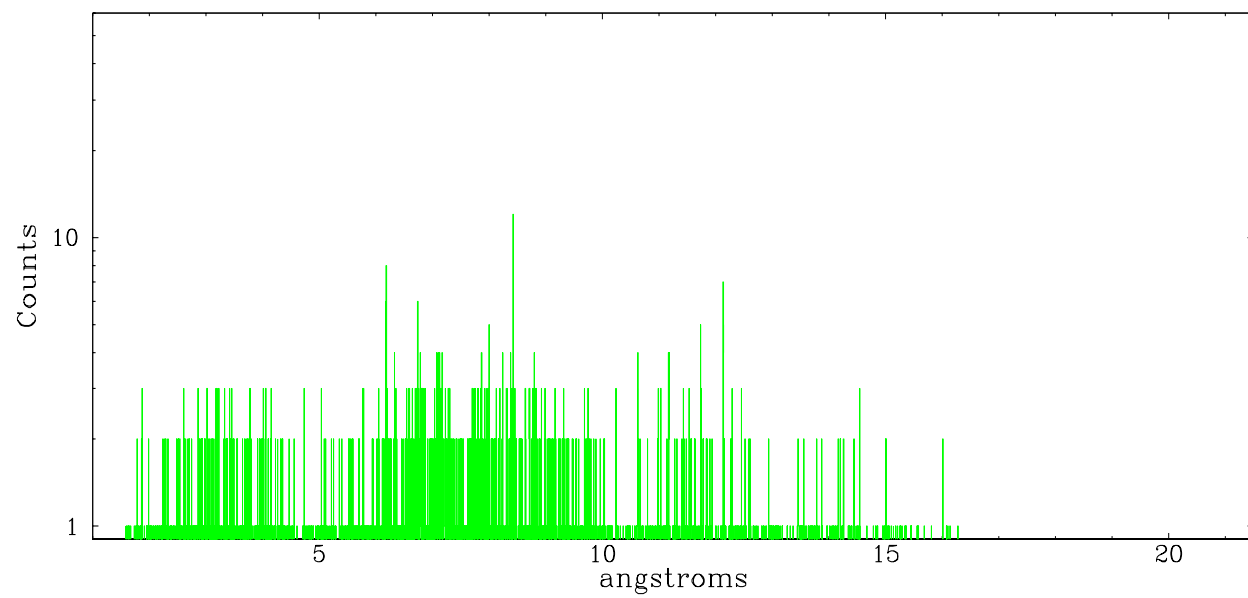
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	73	222	2940	1677	2512	171	64



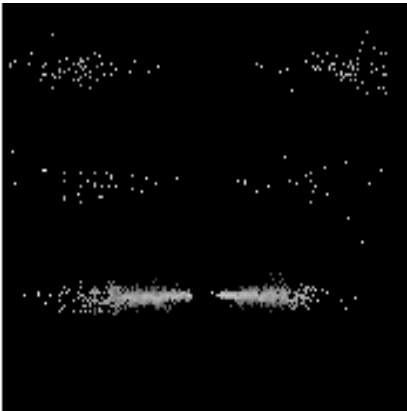
heg order -1



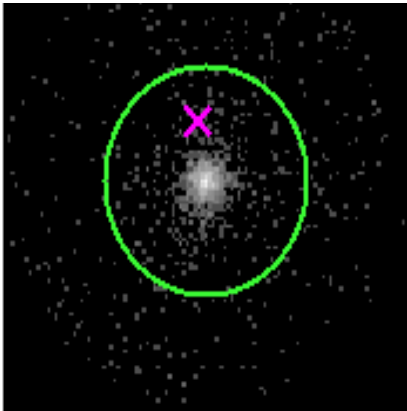
heg order +1



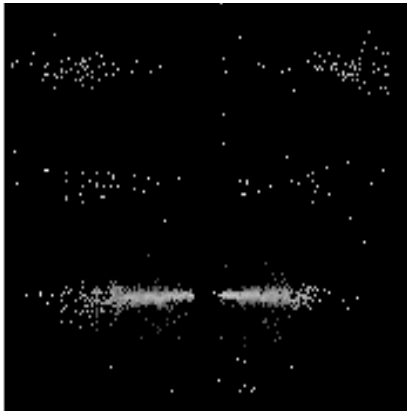
3.2 MEG Arm



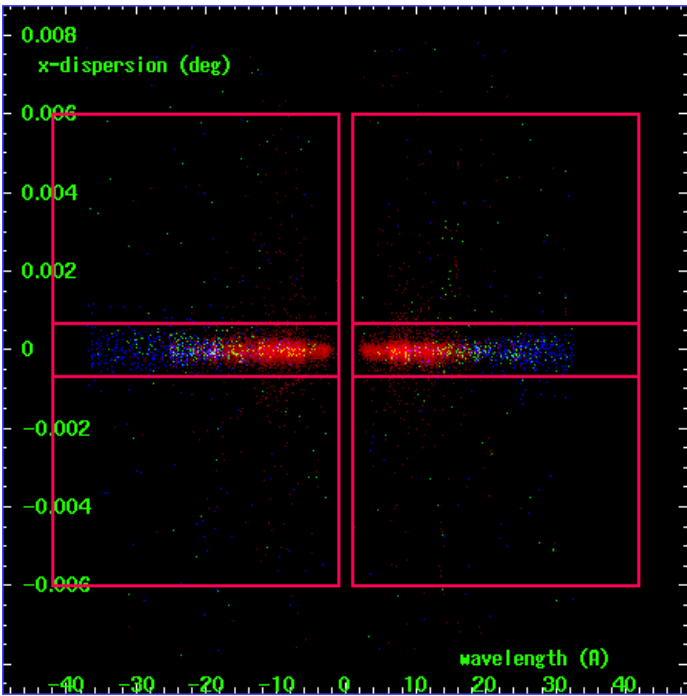
MEG Order Sort 123



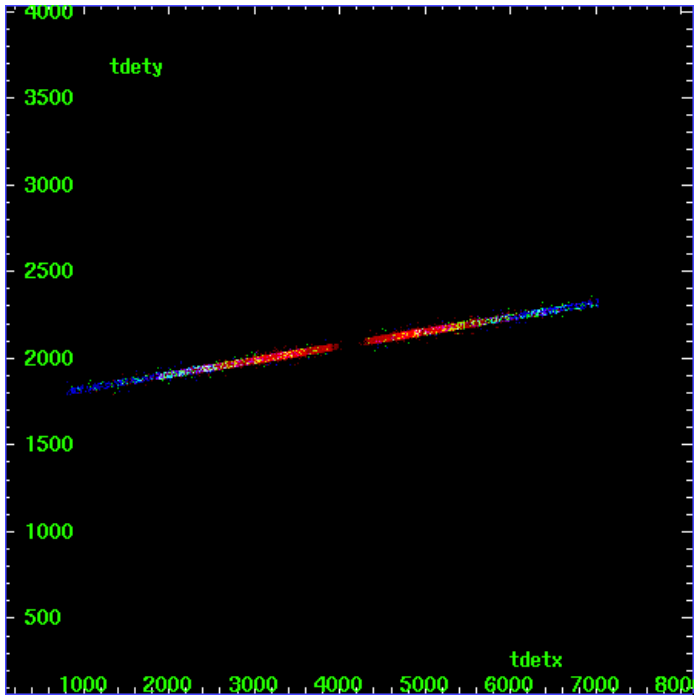
MEG Zero Order



MEG Order Sort ALL

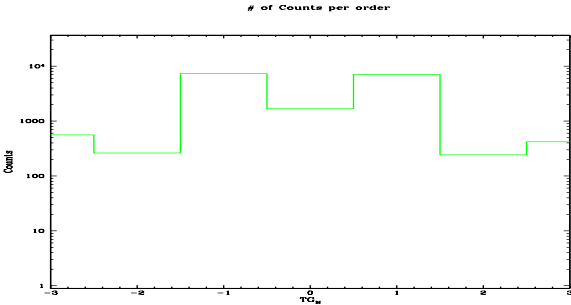


Spot Image MEG

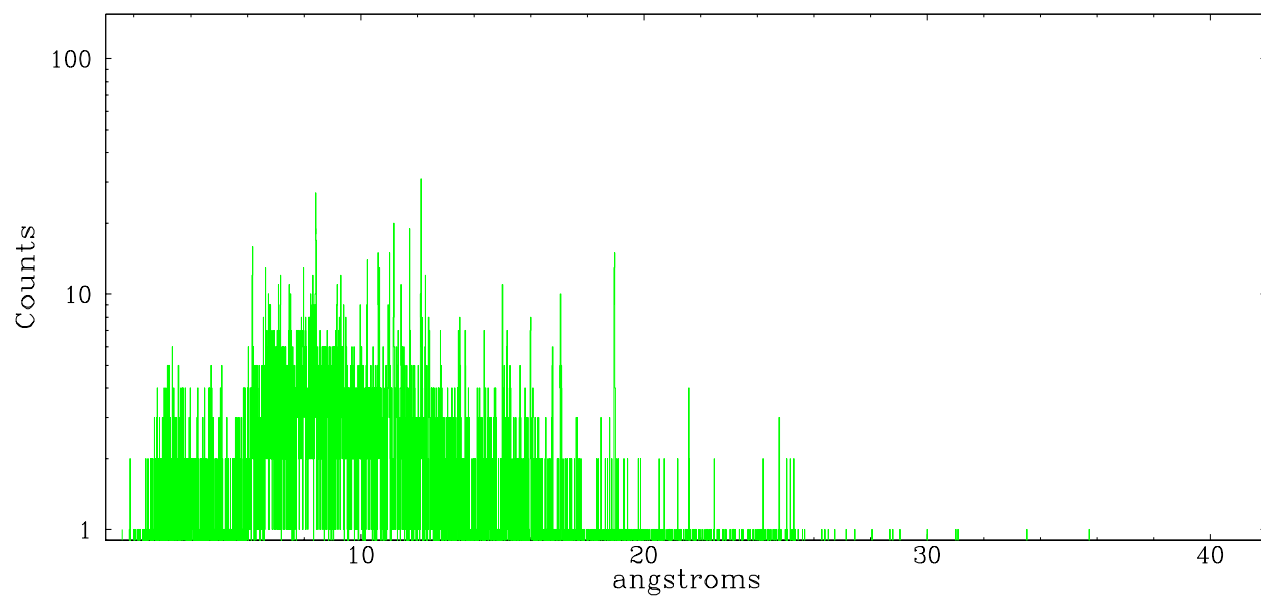


Full Detector MEG

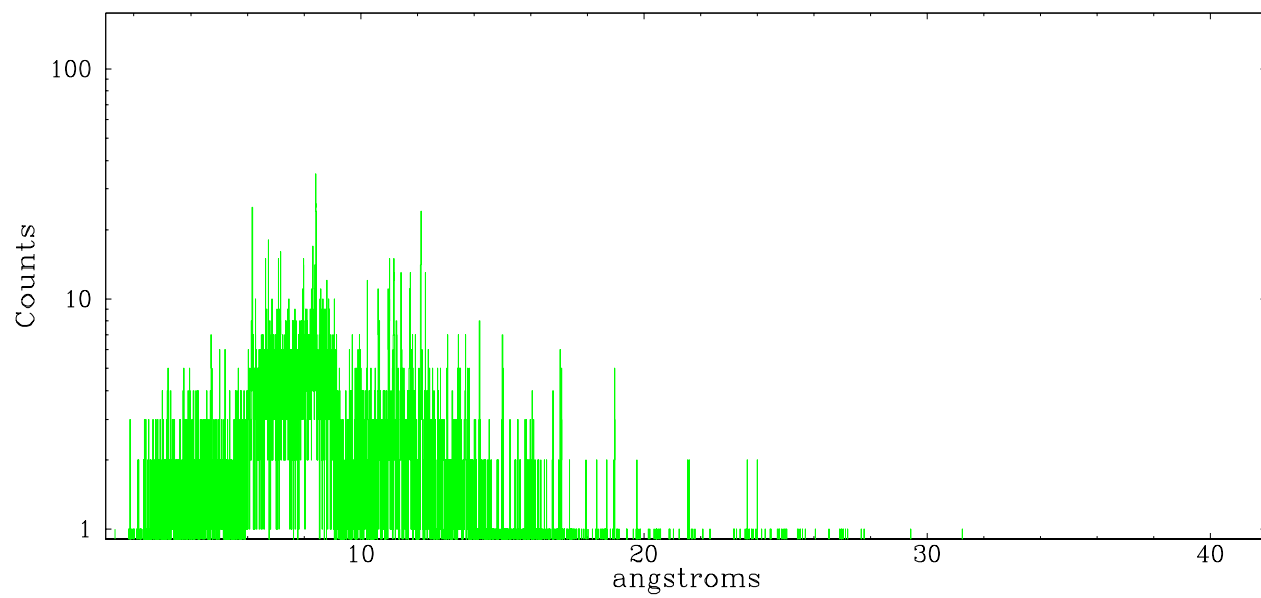
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	561	262	7301	1677	7062	243	418



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	7.452

A.2 Comments

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