

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4880 - L2 Version 001
Chandra X-Ray Center

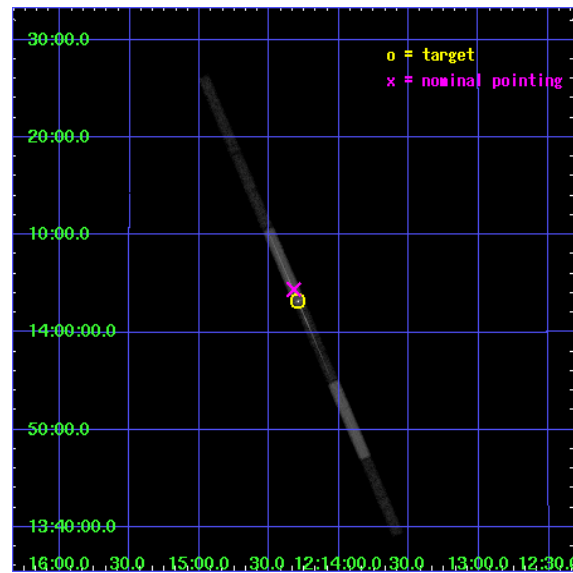
L2 Processing Date : May 23 2006

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1 Front

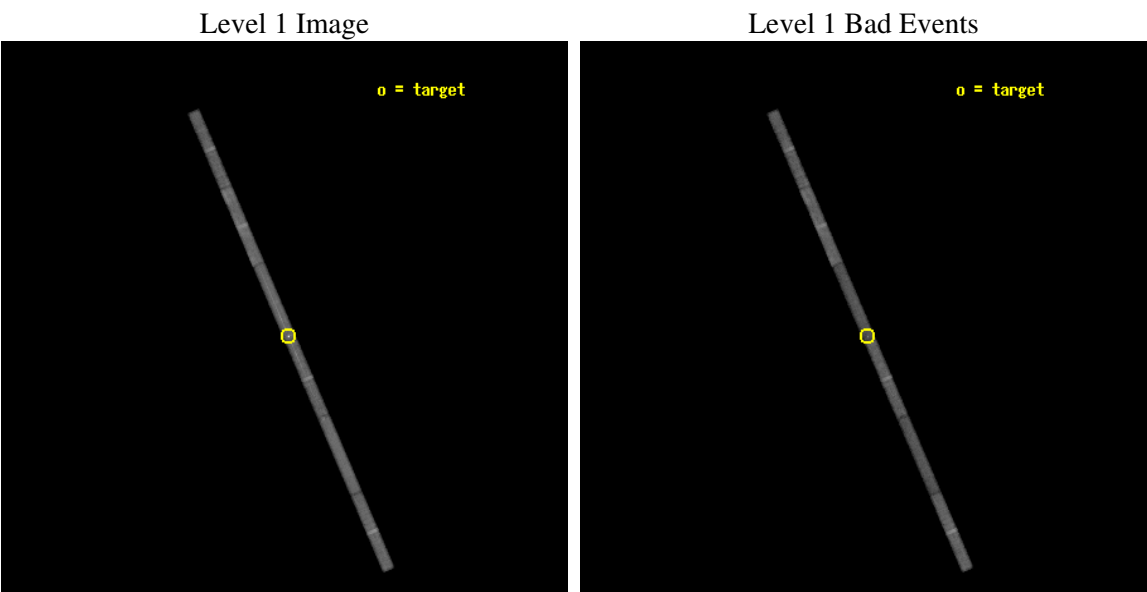
seq_num	700962
obs_id	4880
title	Revealing the High Velocity Outflow in PG 1211+143
observer	Dr James Reeves
object	PG 1211+143
dtcycle	0
cycle	P
ra_targ	183.57375
dec_targ	14.053611
ra_nom	183.58081722063
dec_nom	14.073519404496
roll_nom	246.61596050727
revision	2
ontime	45172.358190715
livetime	42670.639551847
ontime4	45171.617150694
ontime5	45172.358190715
ontime6	45172.358190715
ontime7	45172.358190715
ontime8	45172.358190715
ontime9	45172.358190715
l2events	86335



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-23T15:39:49
revision	2

sched_exp_time	45000.000000
ontime	45303.686756104
ontime4	45302.945716083
ontime5	45303.686756104
ontime6	45303.686756104
ontime7	45303.686756104
ontime8	45303.686756104
ontime9	45304.427796096
l1events	378963

2.1.4 Events

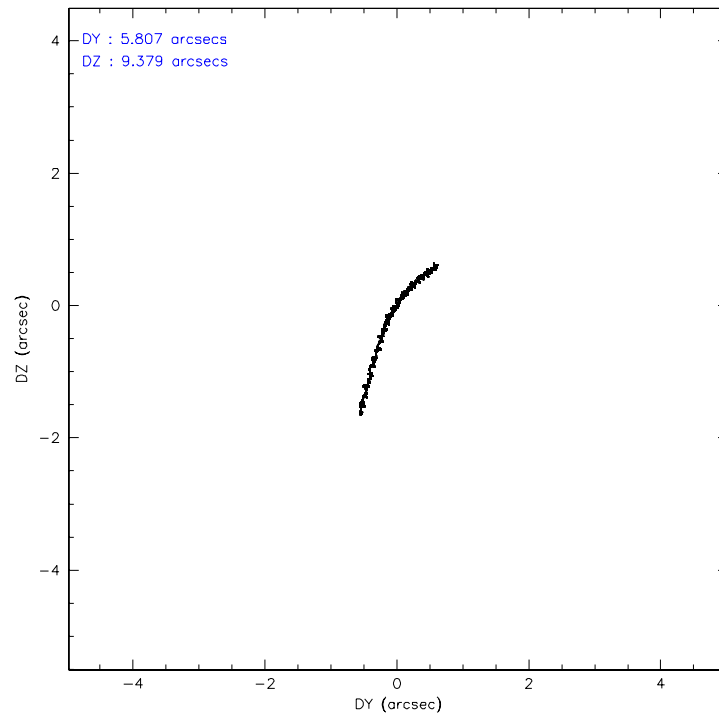
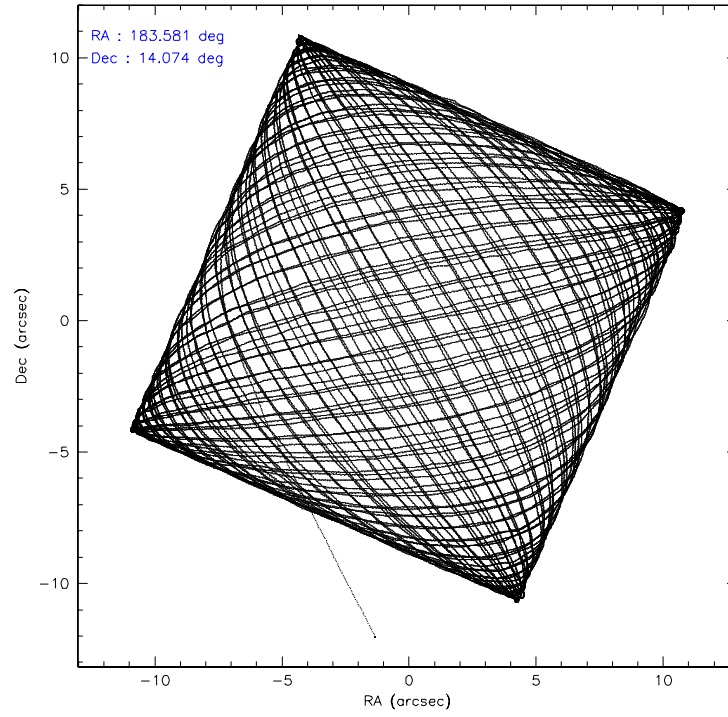
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	62371	63603	57549	69984	74481	50975
rejected events	55722	34099	48307	34138	60820	44995
rejected %	89%	53%	83%	48%	81%	88%

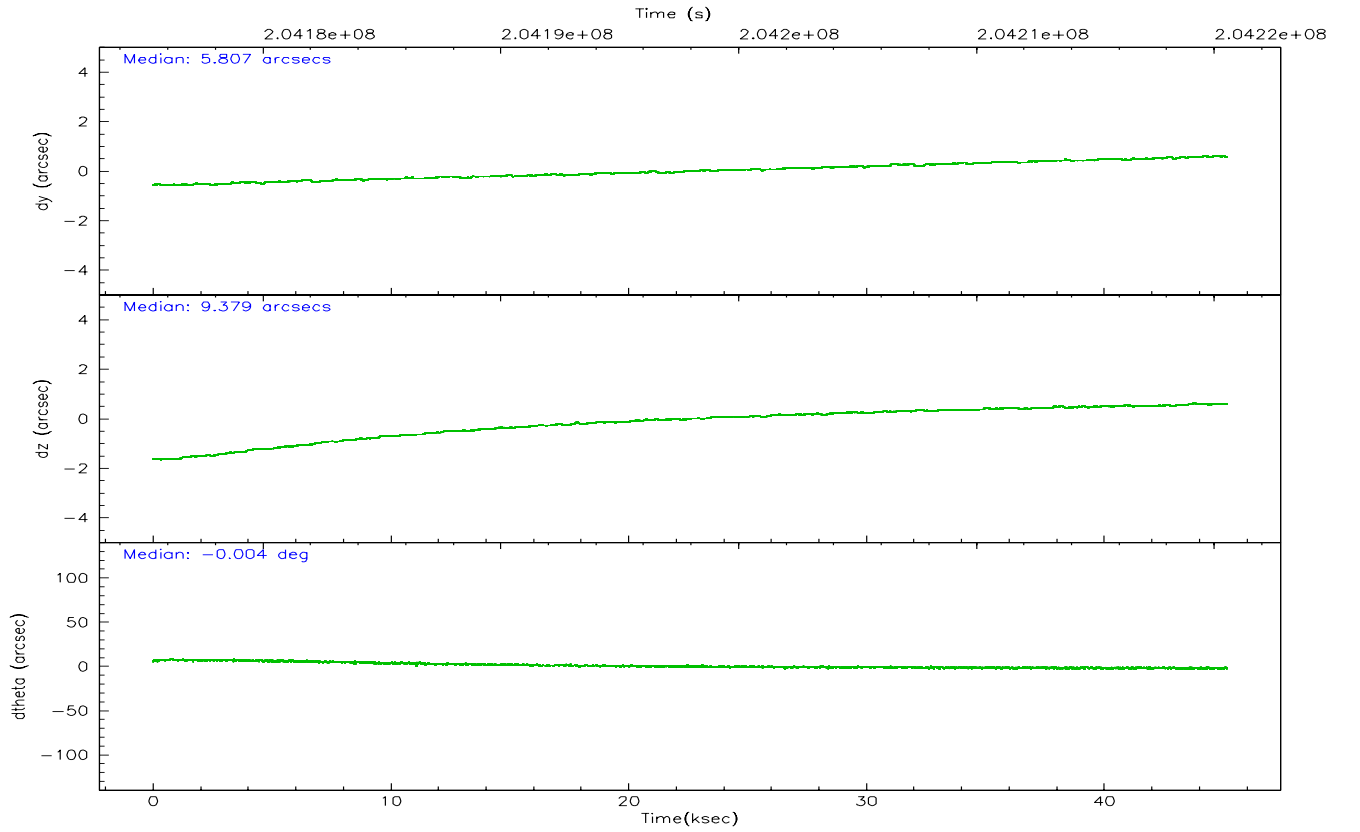
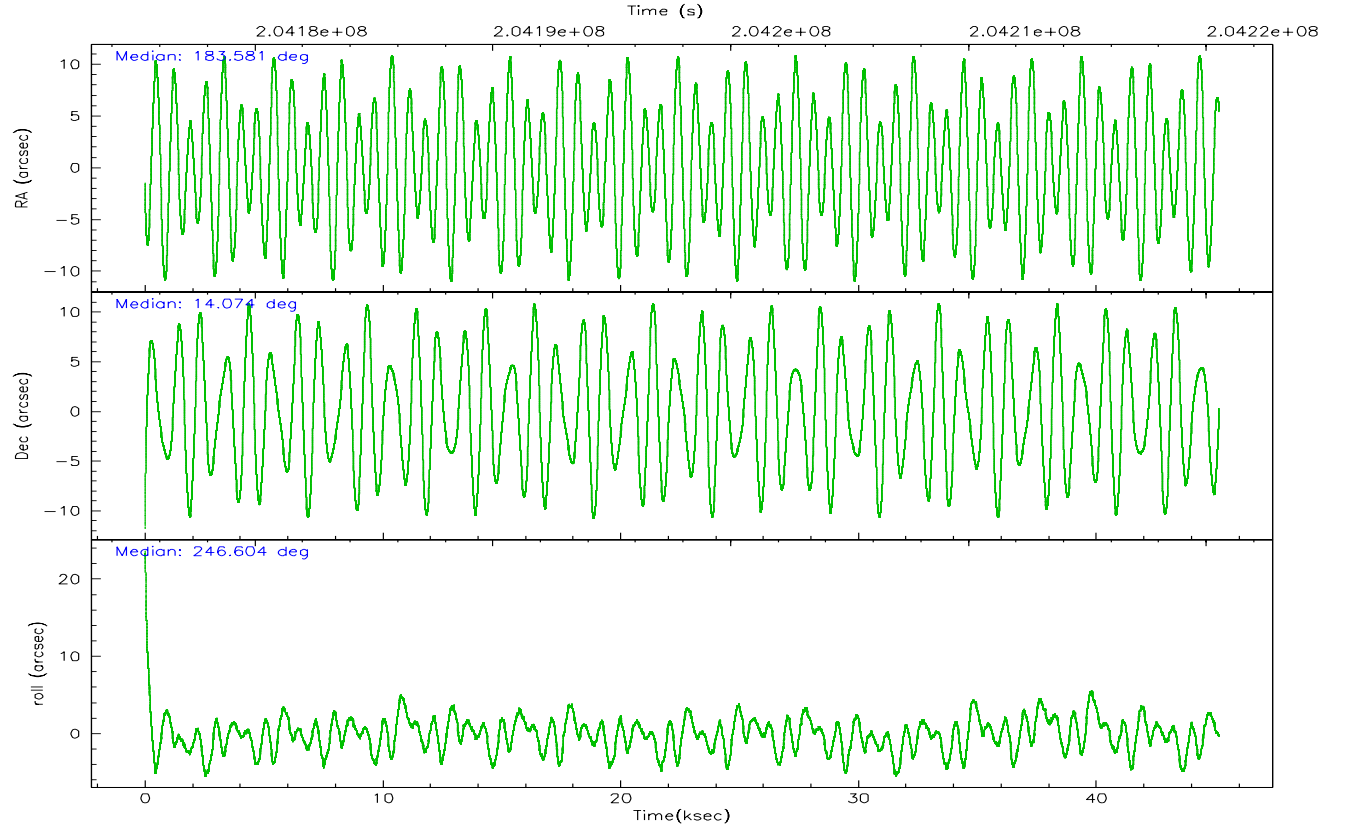
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2377	2652	4573	5172	3592	2048
	3%	4%	7%	7%	4%	4%
grade 1 events	14	90	17	65	18	19
	0%	0%	0%	0%	0%	0%
grade 2 events	1256	8360	1308	8502	2589	980
	2%	13%	2%	12%	3%	1%
grade 3 events	1013	1675	1117	3725	1689	1026
	1%	2%	1%	5%	2%	2%
grade 4 events	983	1640	1092	3478	1704	969
	1%	2%	1%	4%	2%	1%
grade 5 events	1710	3950	1729	4761	2362	1778
	2%	6%	3%	6%	3%	3%
grade 6 events	1044	15297	1170	15083	4143	972
	1%	24%	2%	21%	5%	1%
grade 7 events	53974	29939	46543	29198	58384	43183
	86%	47%	80%	41%	78%	84%

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	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	1/8
Pointing RA	183.577192	183.5808172206323	Subarray start row	113	113
Pointing Dec	14.100516	14.07351940449574	Subarray row count	128	128
Pointing Roll	246.460207	246.6159605072747	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.7
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	204175546.184000	204174544.55117			
Observation start date	2004-06-21T03:24:42	2004-06-21T03:09:04			
Observation end time	204220546.184000	204222226.52828			
Observation end date	2004-06-21T15:54:42	2004-06-21T16:23:46			
Read mode	TIMED	TIMED			

2.3 Aspect



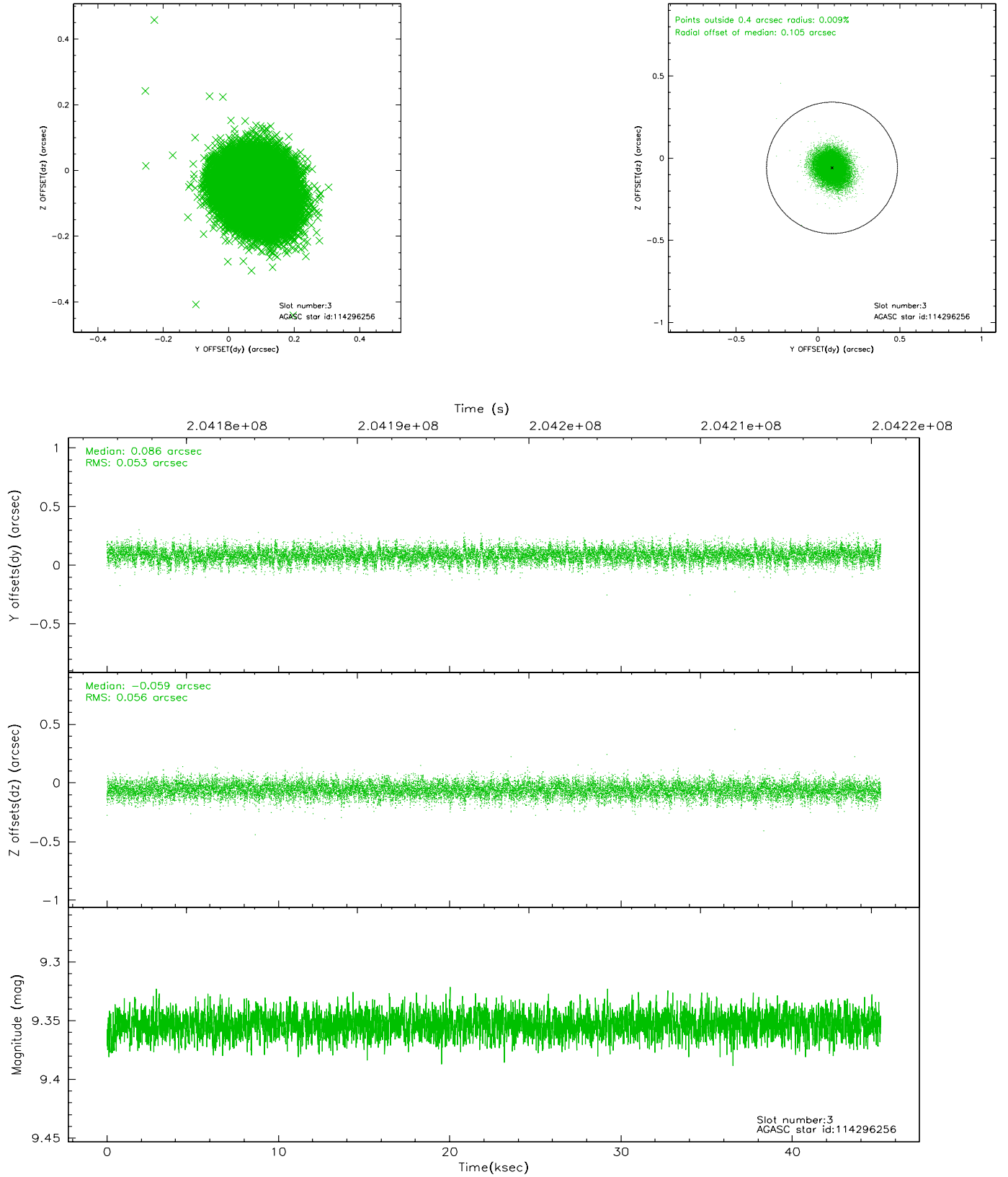


Slot Statistics

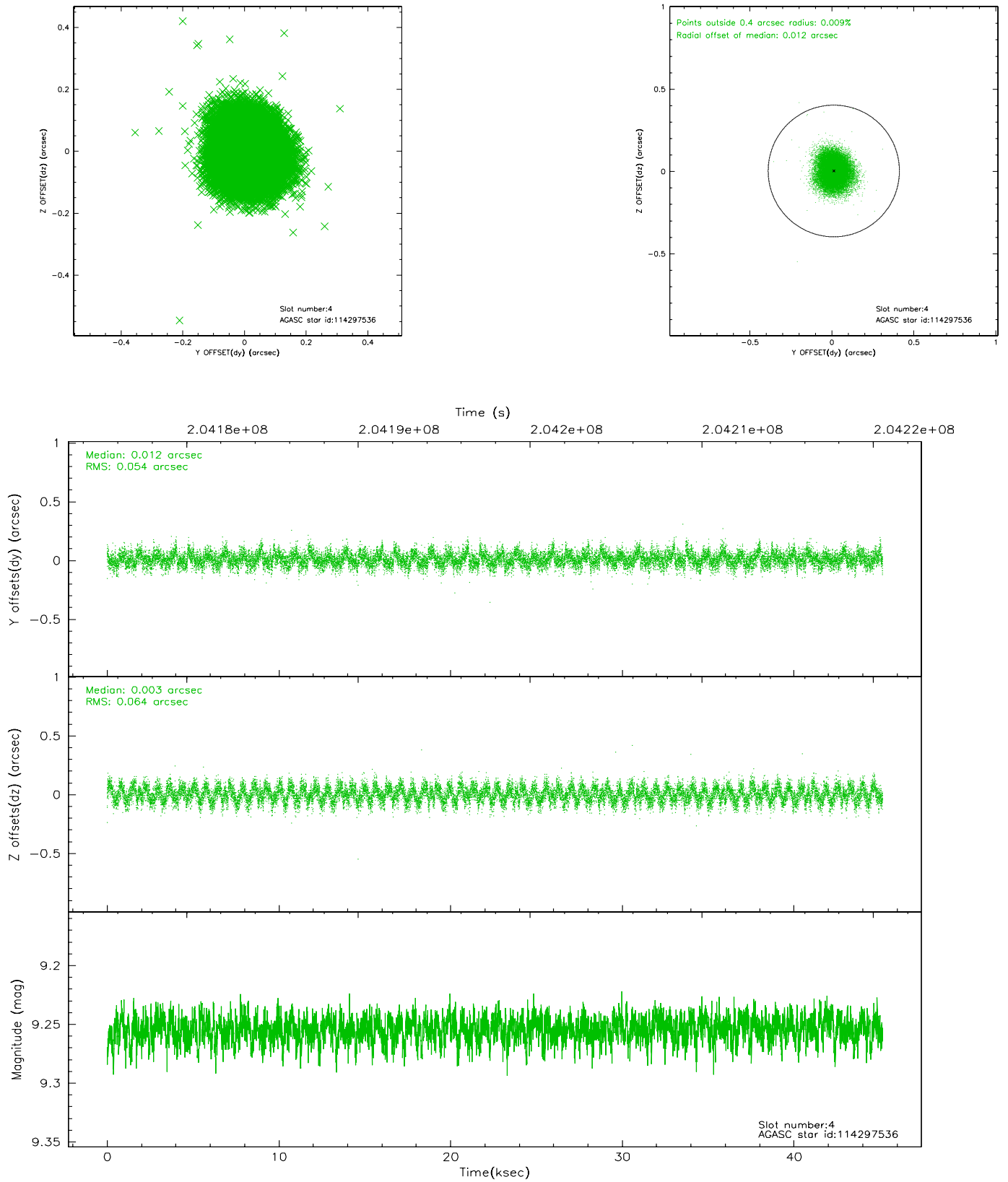
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.17	11016	0.075	0.047	0.014	0.035	0.000000	0.000000	2155.46	13.52
1	FID	ACIS-S-5	7.23	11017	-0.107	0.035	0.009	0.021	0.000000	0.000000	-1810.91	7.03
2	FID	ACIS-S-6	7.41	11017	0.003	-0.067	0.011	0.019	0.000000	0.000000	403.66	650.64
3	GUIDE	114296256	9.35	22019	0.086	-0.059	0.082	0.133	182.985406	14.017213	1098.87	-1775.80
4	GUIDE	114297536	9.25	22015	0.012	0.003	0.089	0.140	183.757120	14.264956	-793.38	339.05
5	GUIDE	114301168	9.23	21945	0.087	-0.100	0.082	0.135	182.996668	14.071189	904.84	-1816.98
6	GUIDE	114303096	9.30	22010	-0.013	-0.098	0.099	0.166	183.214020	14.515722	-865.02	-1758.00
7	GUIDE	115218912	8.30	22030	-0.169	0.247	0.082	0.133	184.400783	14.442830	-2281.27	2137.83

2.4 Star Slots

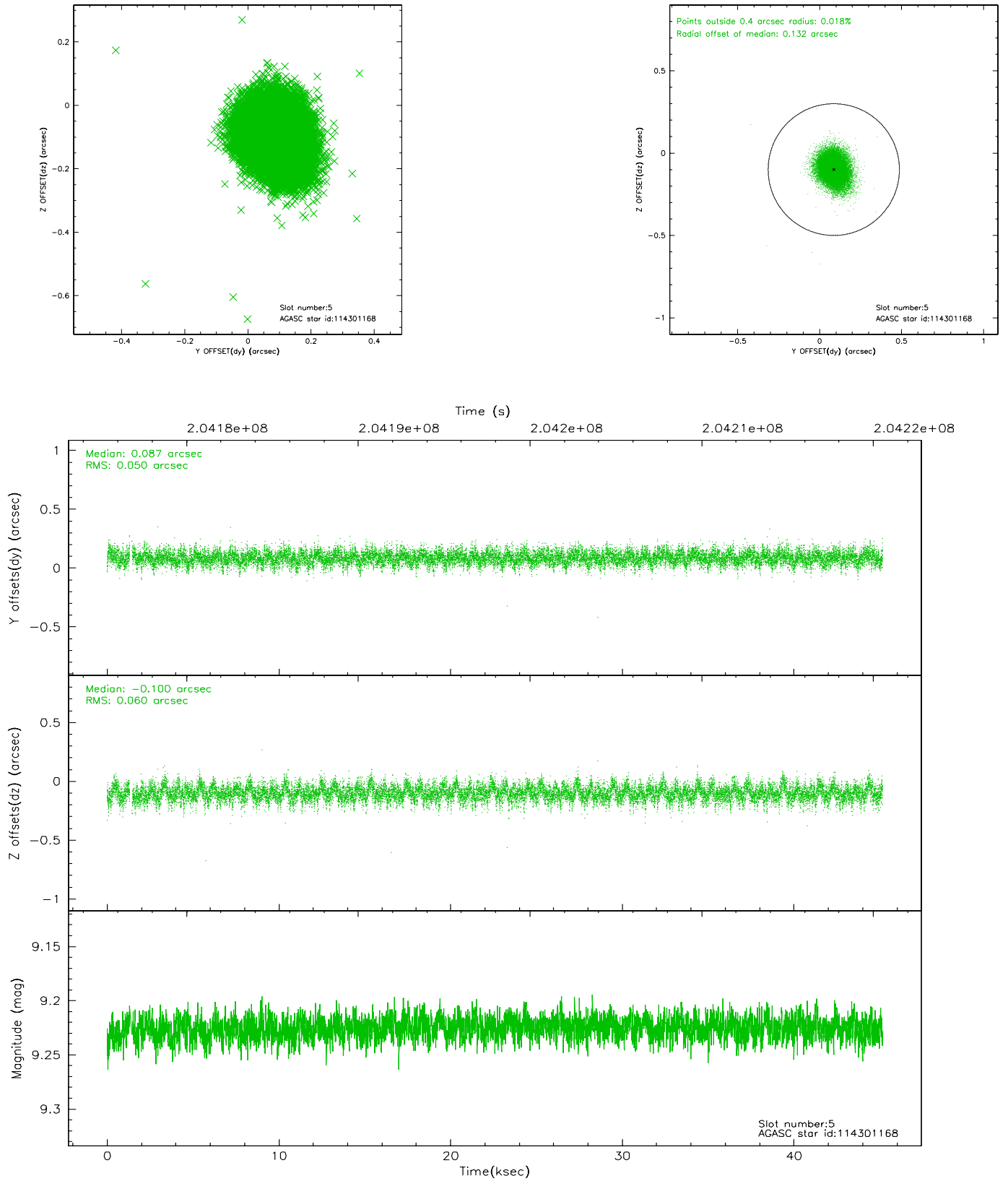
2.4.1 Slot 3



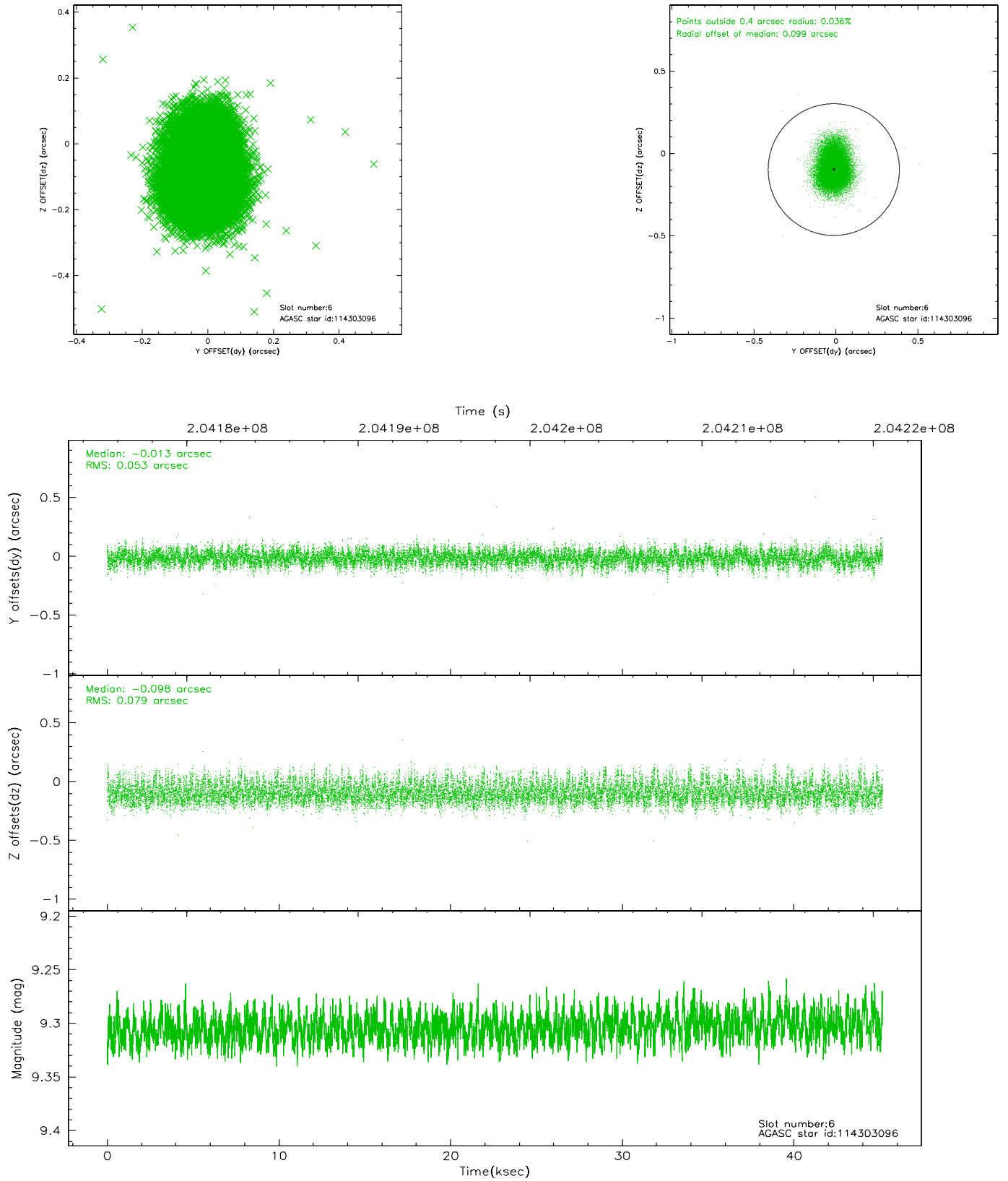
2.4.2 Slot 4



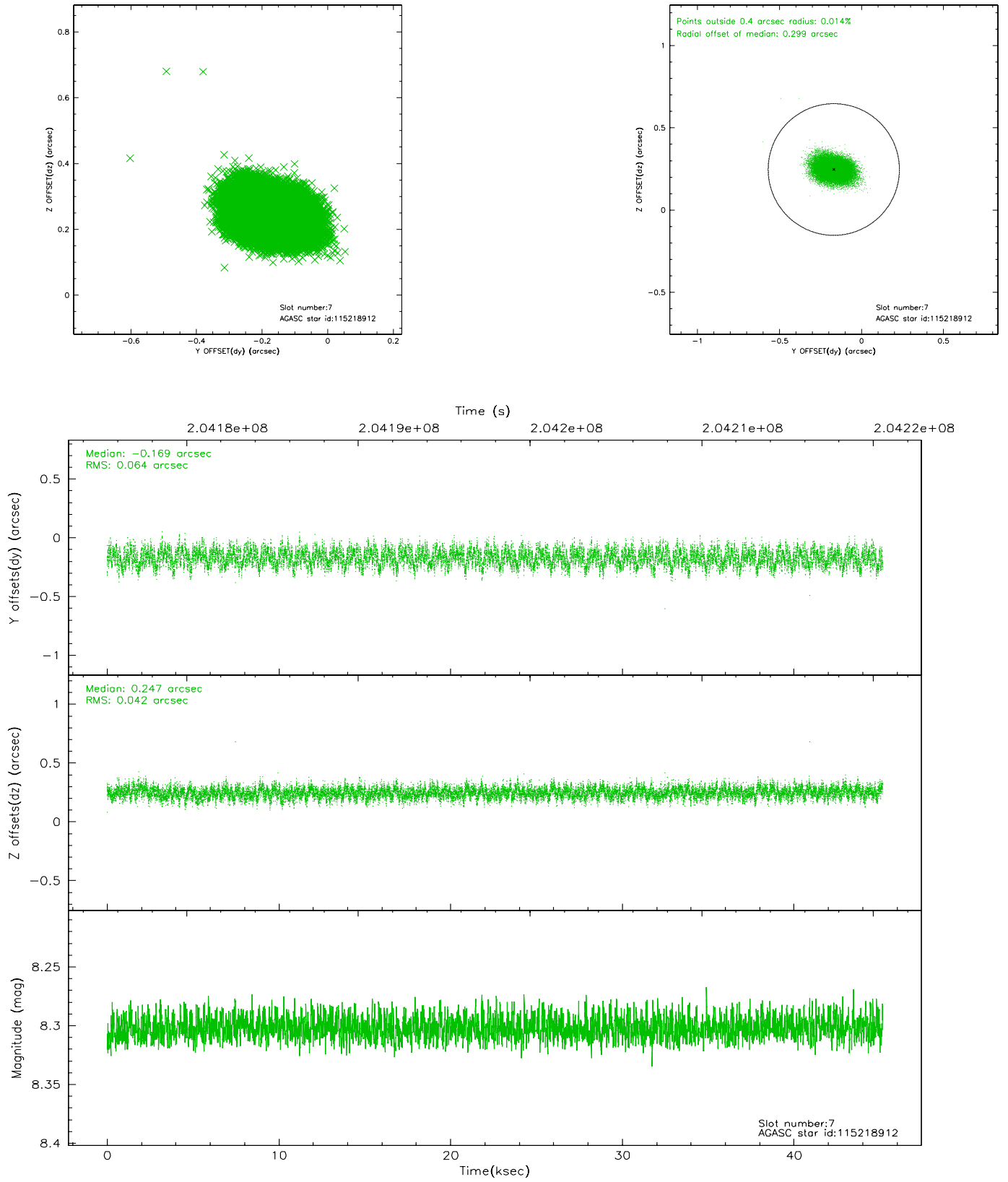
2.4.3 Slot 5



2.4.4 Slot 6

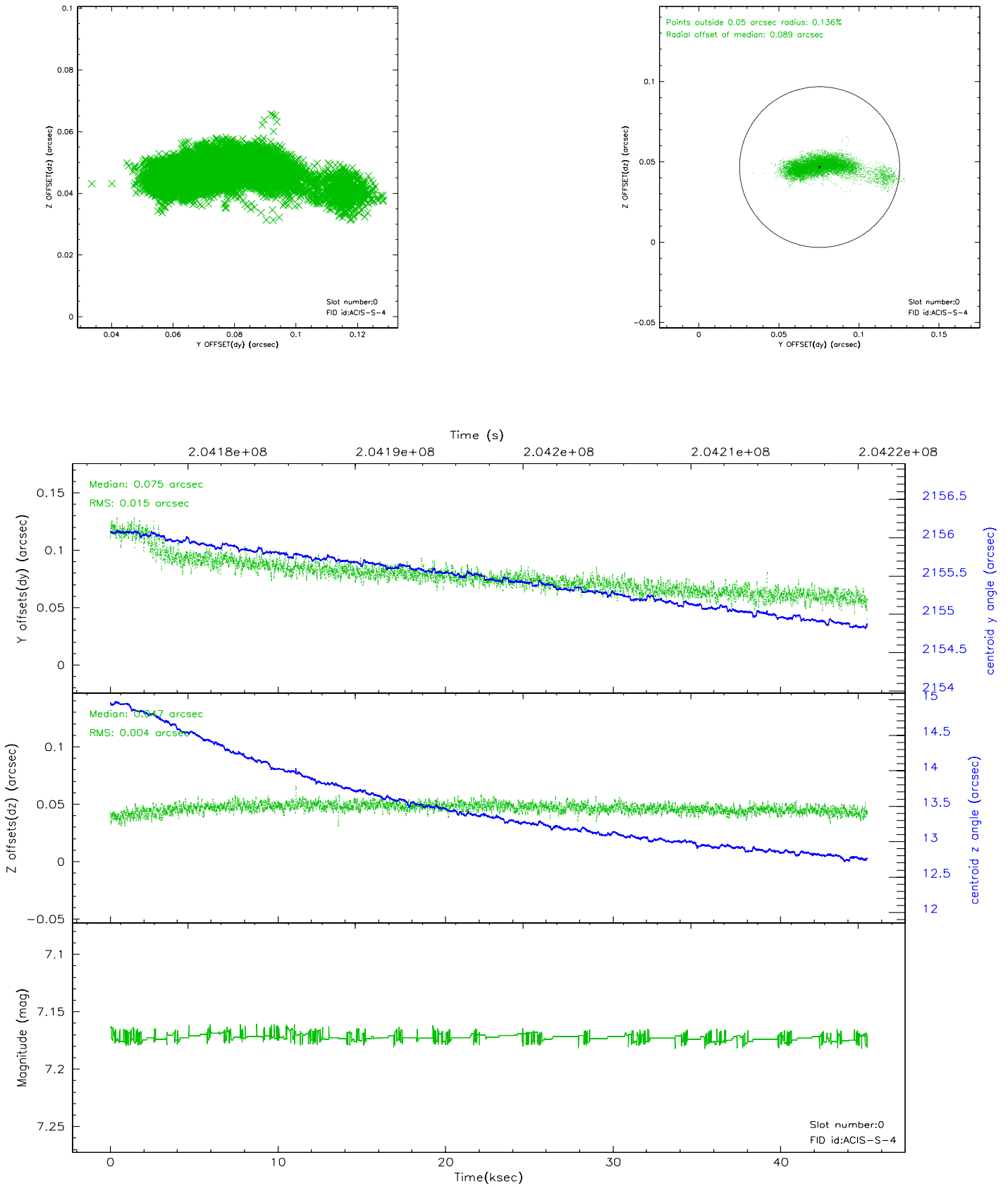


2.4.5 Slot 7

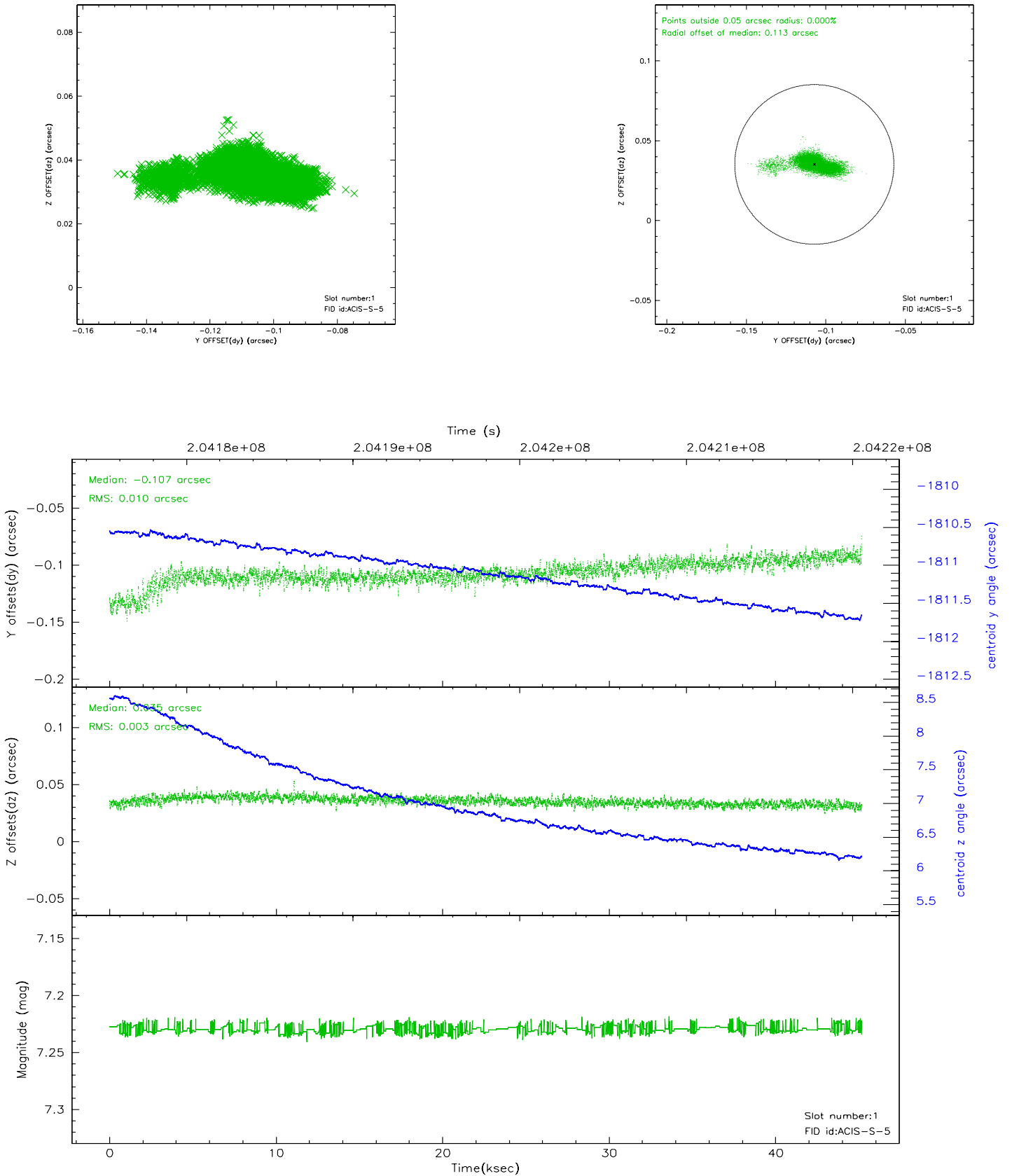


2.5 FID Slots

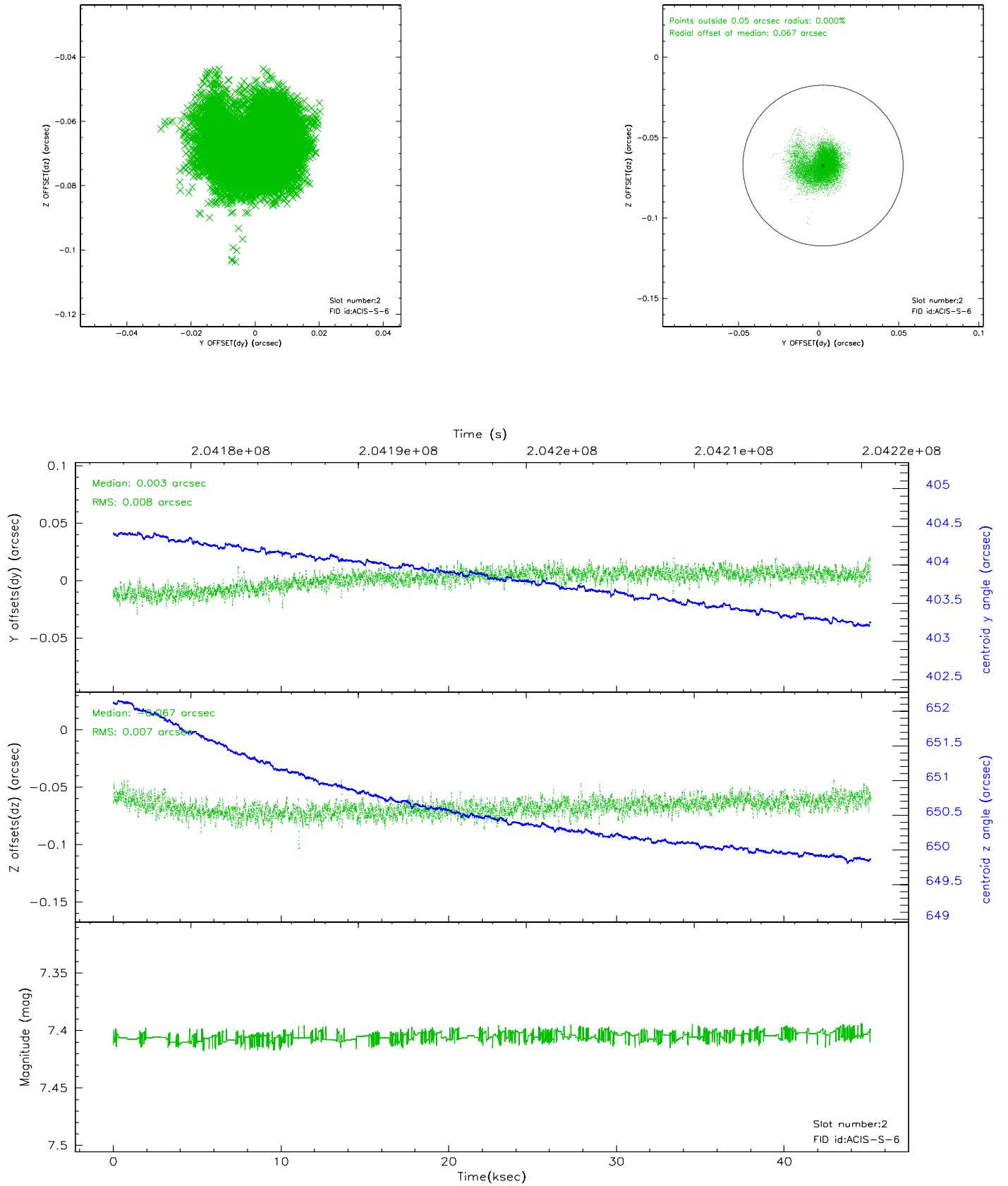
2.5.1 Slot 0



2.5.2 Slot 1

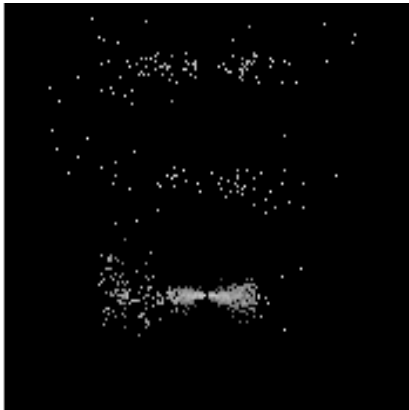


2.5.3 Slot 2

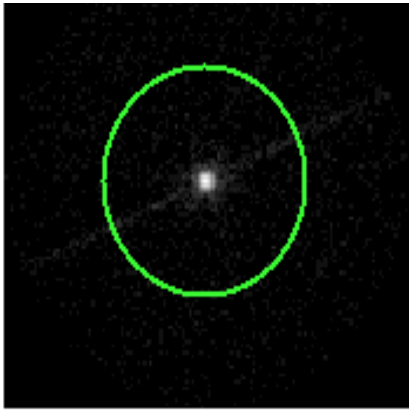


3 Gratings

3.1 LETG Arm



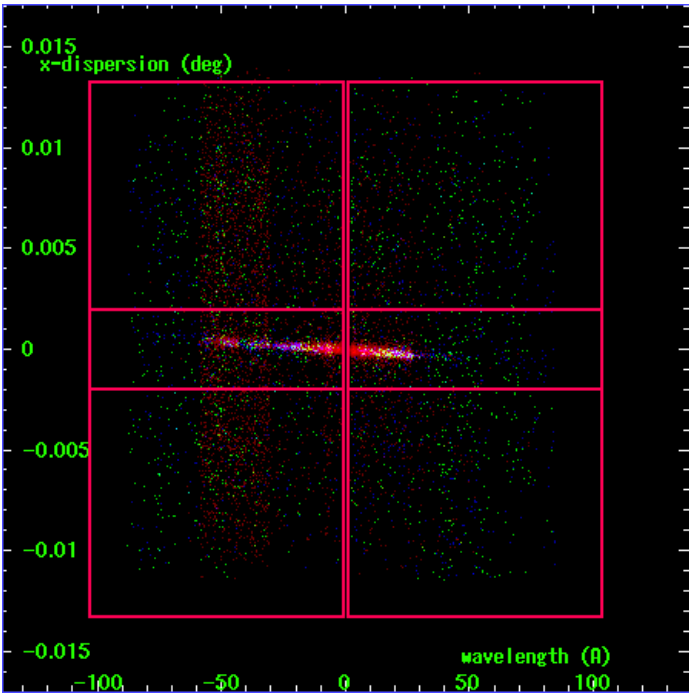
LETG Order Sort 123



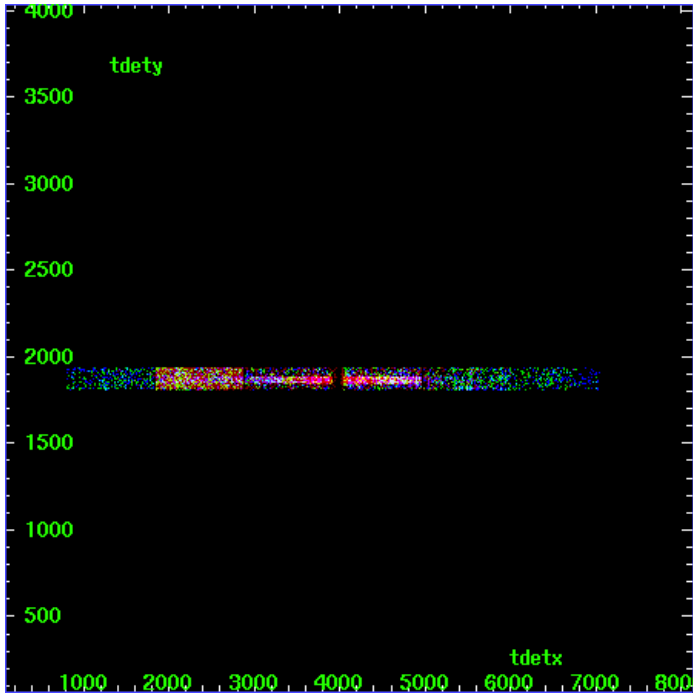
LETG Zero Order



LETG Order Sort ALL

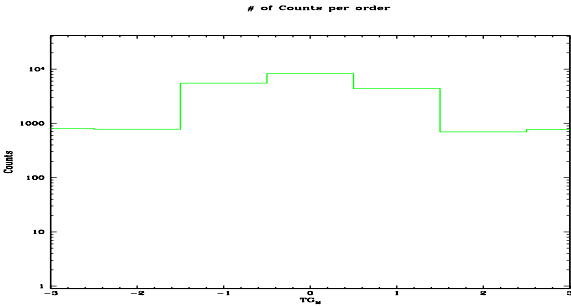


Spot Image LETG

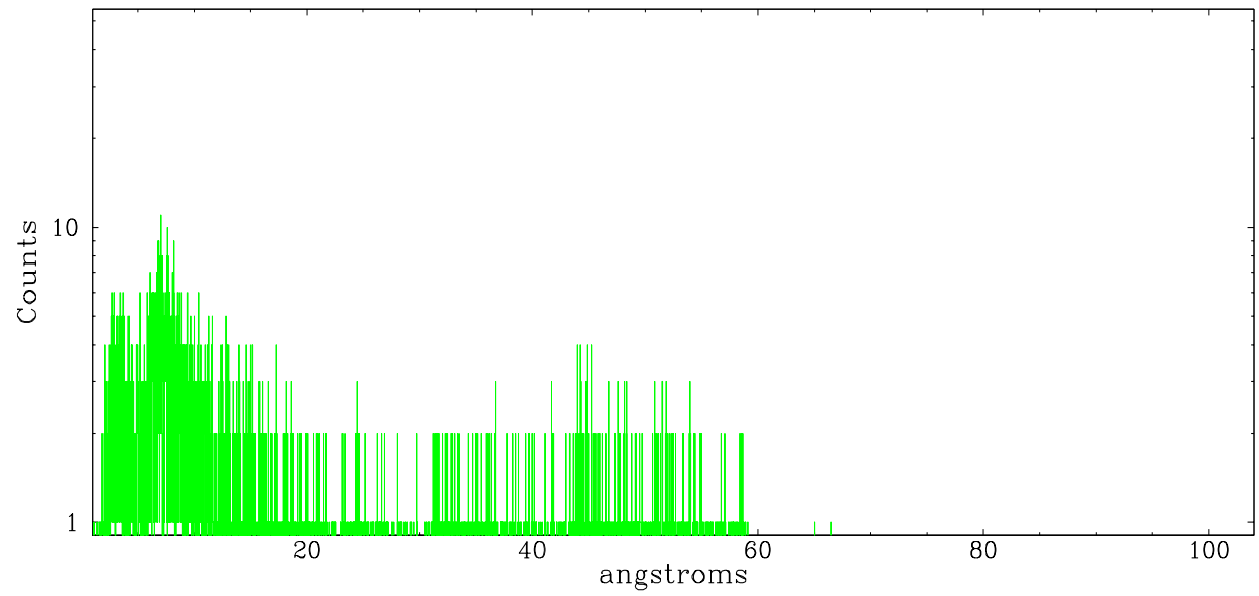


Full Detector LETG

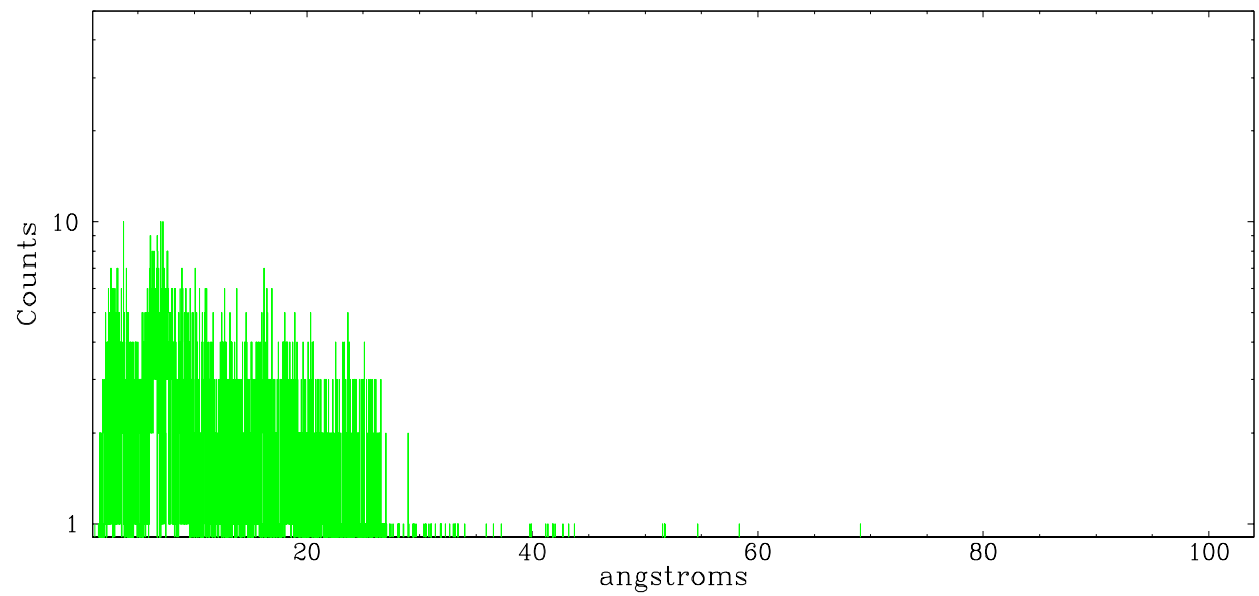
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	805	778	5529	8282	4369	698	771



leg order -1



leg order $+1$



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.172

A.2 Comments