

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2471 - L2 Version 001
Chandra X-Ray Center

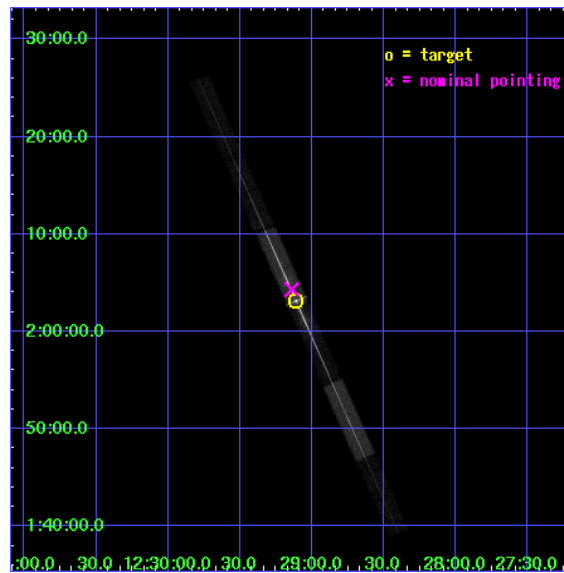
L2 Processing Date : Dec 8 2006

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1 Front

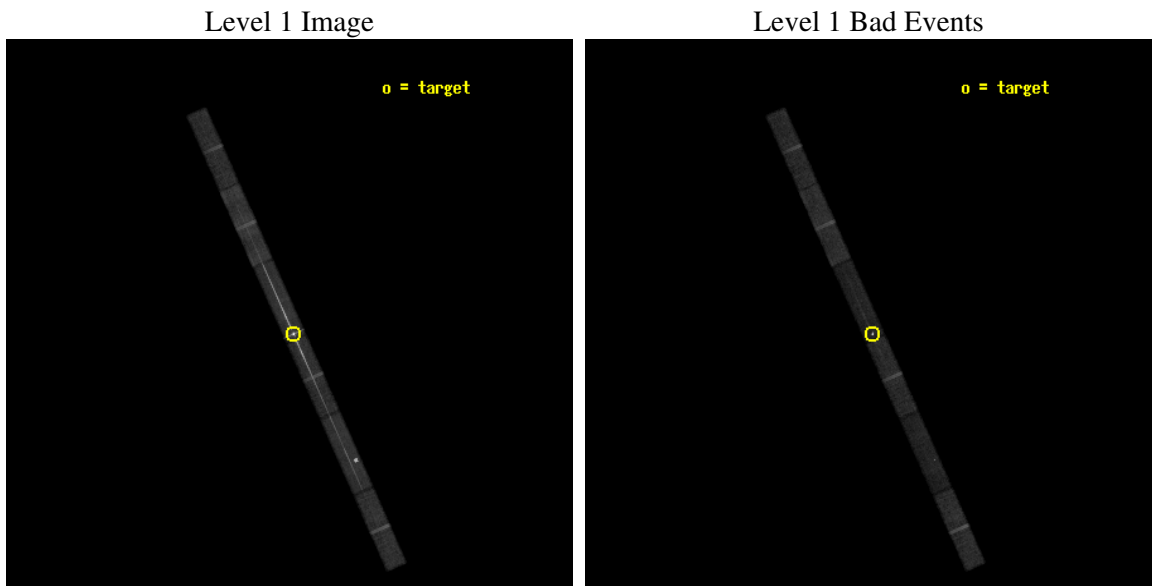
seq_num	790059
obs_id	2471
title	AO3 CALIBRATION OBSERVATIONS OF 3C273
observer	Dr. CXC Calibration
object	3C273
dtcycle	0
cycle	P
ra_targ	187.277917
dec_targ	2.052389
ra_nom	187.2849462311
dec_nom	2.0721100646192
roll_nom	245.90610711008
revision	2
ontime	25815.858840019
livetime	24887.334996162
ontime4	25815.858840019
ontime5	25815.858840019
ontime6	25815.858840019
ontime7	25815.858840019
ontime8	25815.858840019
ontime9	25816.999860108
l2events	209634



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	7.6.9
caldsver	3.2.4
date	2006-12-08T06:07:35
revision	2

sched_exp_time	27000.000000
ontime	26593.883840933
ontime4	26367.957920939
ontime5	26593.883840933
ontime6	26447.830720931
ontime7	26593.883840933
ontime8	26402.189120933
ontime9	26404.47118102
l1events	569676

2.1.4 Events

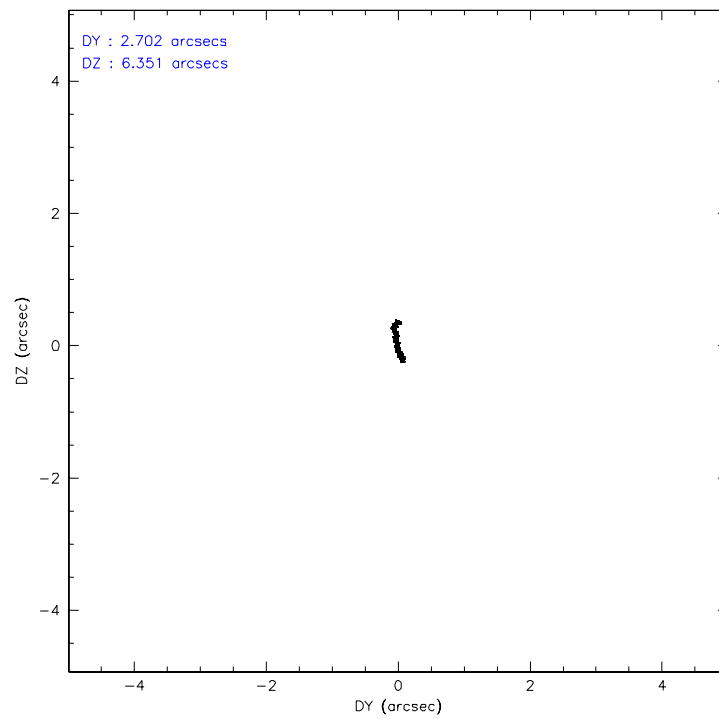
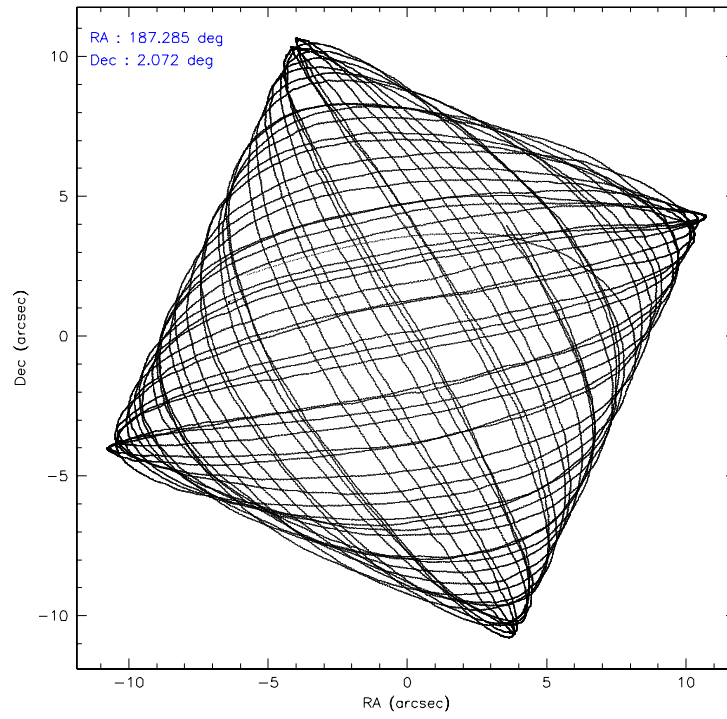
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	67188	93182	99708	163731	87105	58762
rejected events	58901	38030	53450	54970	63724	50820
rejected %	87%	40%	53%	33%	73%	86%

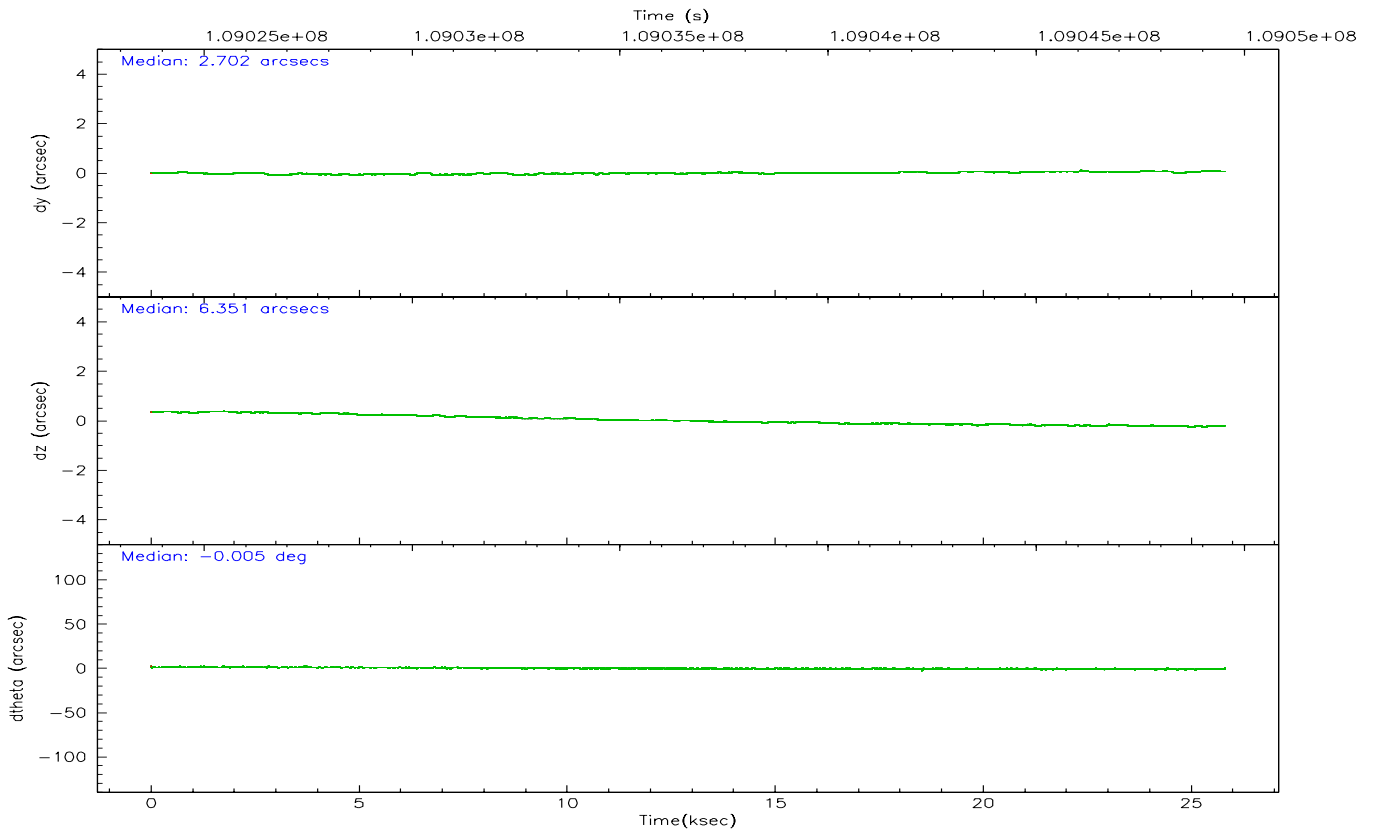
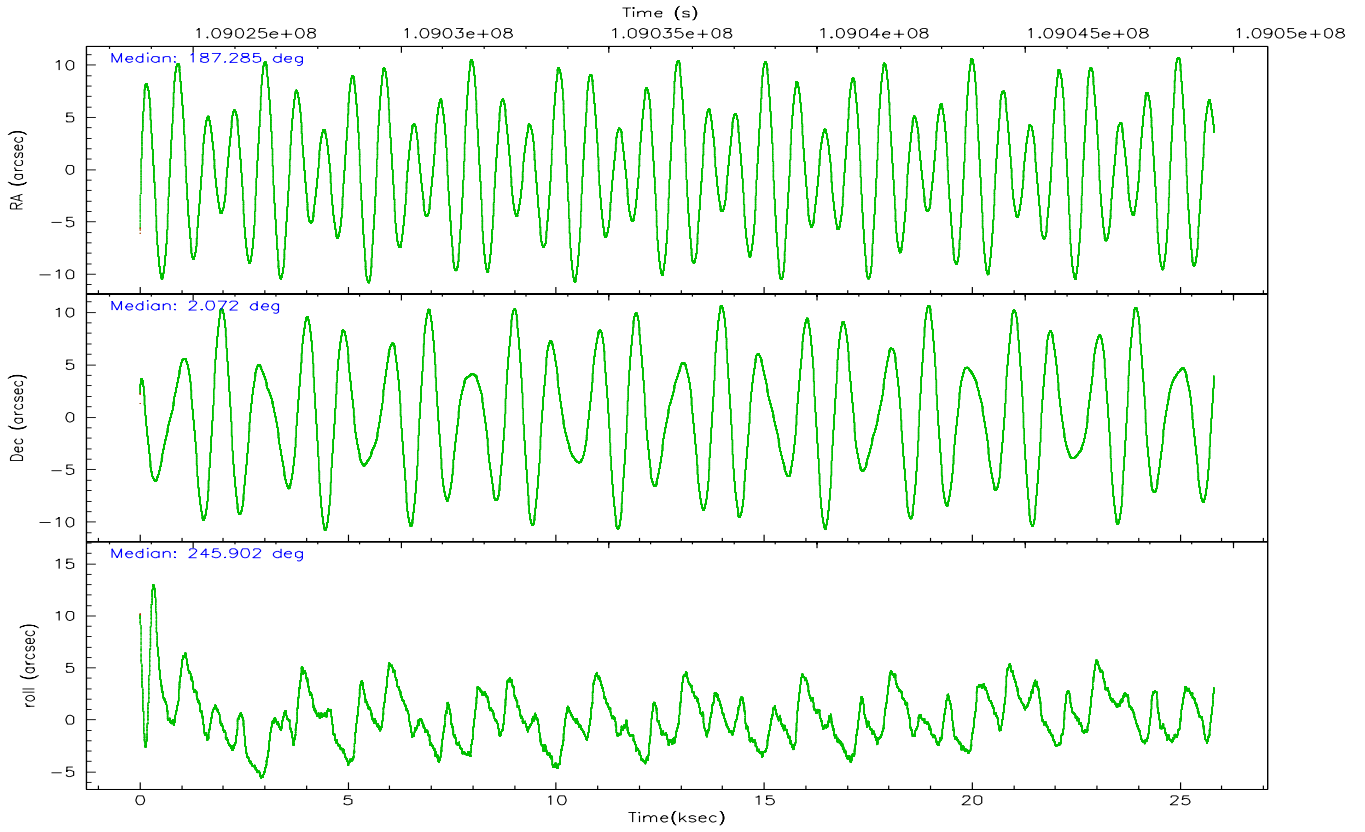
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3668	25736	35864	24916	8787	3607
	5%	27%	35%	15%	10%	6%
grade 1 events	14	67	103	788	37	21
	0%	0%	0%	0%	0%	0%
grade 2 events	1795	11270	5359	28771	4165	1417
	2%	12%	5%	17%	4%	2%
grade 3 events	869	1501	1989	10801	2768	951
	1%	1%	1%	6%	3%	1%
grade 4 events	850	1447	1995	10836	2373	910
	1%	1%	2%	6%	2%	1%
grade 5 events	1722	3283	1940	8171	2481	1989
	2%	3%	1%	4%	2%	3%
grade 6 events	1269	16870	2137	36421	5825	1204
	1%	18%	2%	22%	6%	2%
grade 7 events	57001	33008	50321	43027	60669	48663
	84%	35%	50%	26%	69%	82%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	187.281848	187.2849462311005	Subarray requested	CUSTOM	1/4
Pointing Dec	2.099242	2.072110064619156	Subarray start row	385	385
Pointing Roll	245.749586	245.9061071100772	Subarray row count	256	256
Window start time	108777664.184000	108777664.184000	Alternating exposures requested	N	N
Window stop time	108950464.184000	108950464.184000	Primary exposure time	0.000000	1.1
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	109024111.184000	109023053.09307			
Observation start date	2001-06-15T20:27:27	2001-06-15T20:10:53			
Observation end time	109051111.184000	109050165.36913			
Observation end date	2001-06-16T03:57:27	2001-06-16T03:42:45			
Read mode	TIMED	TIMED			

2.3 Aspect



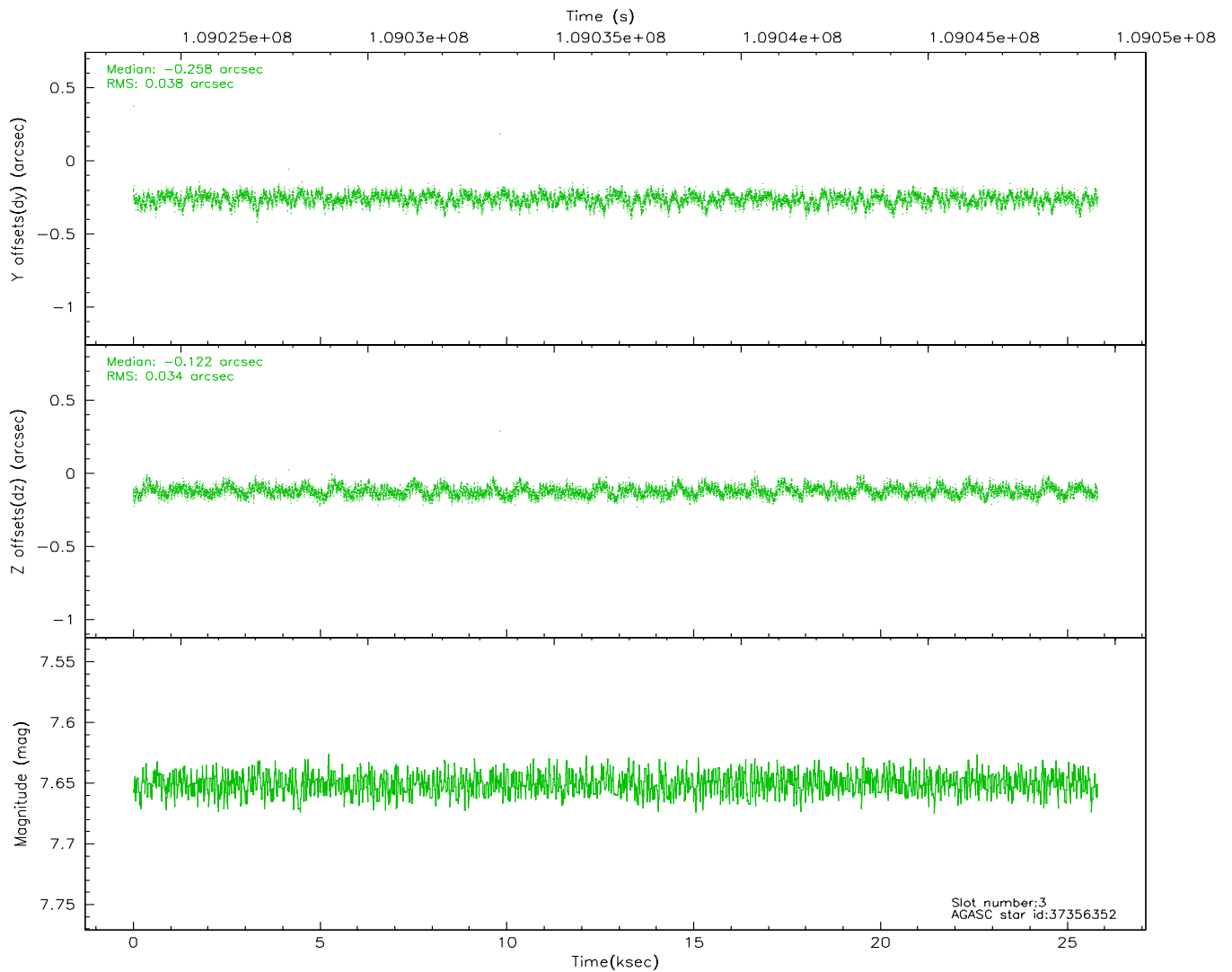
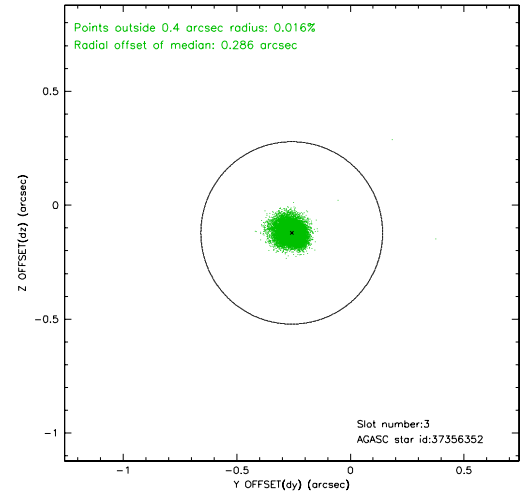
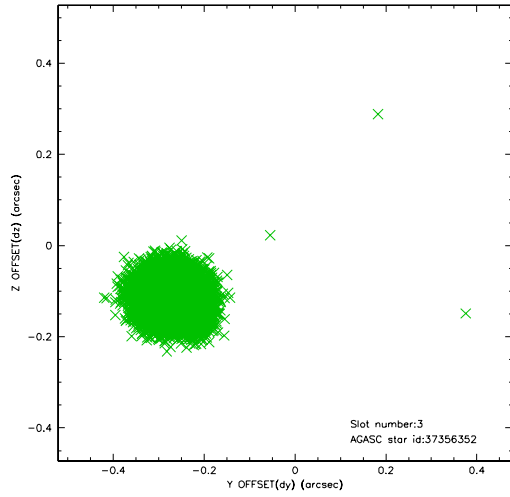


Slot Statistics

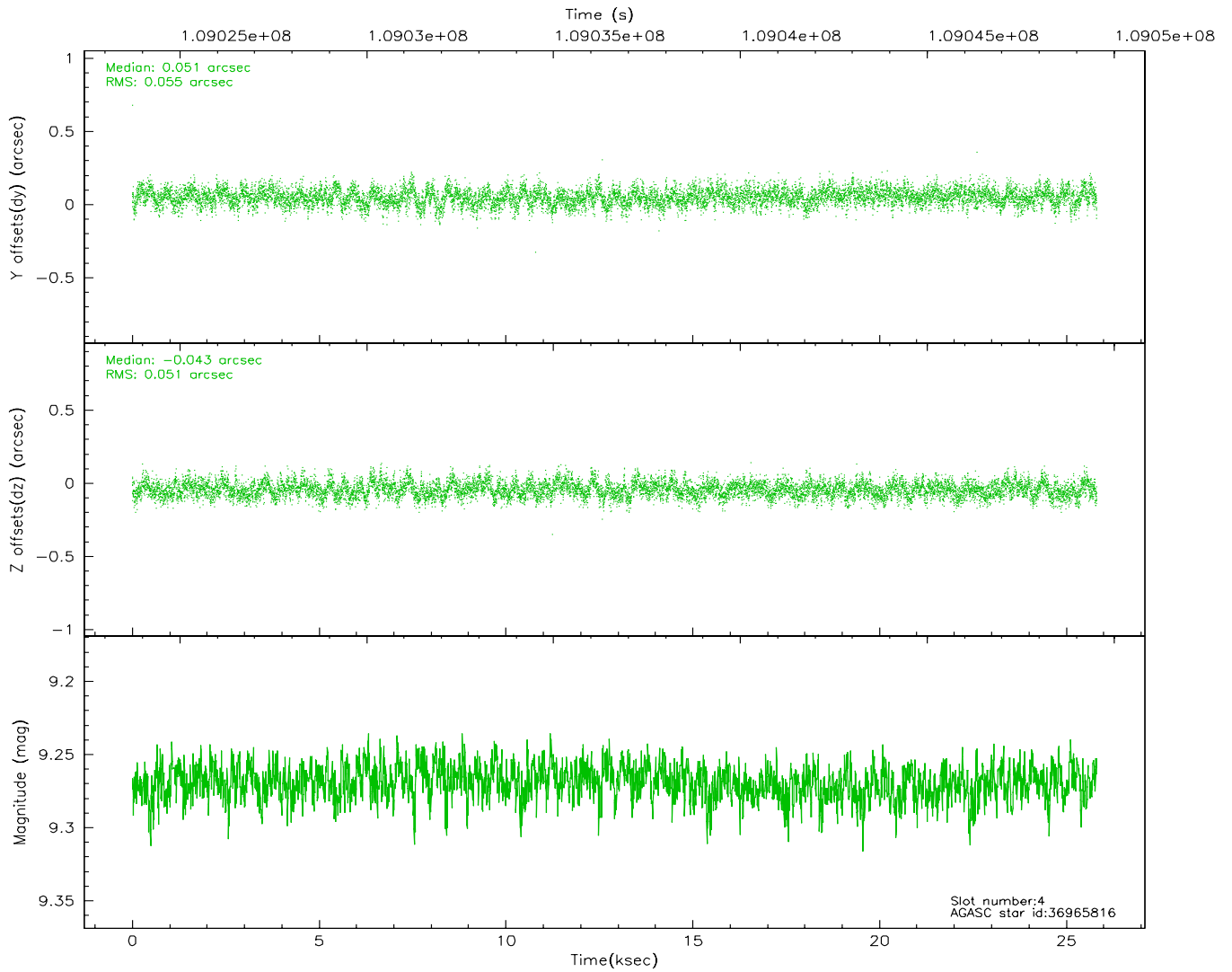
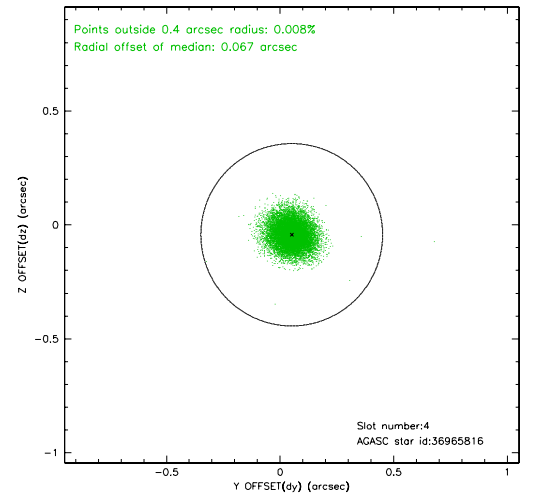
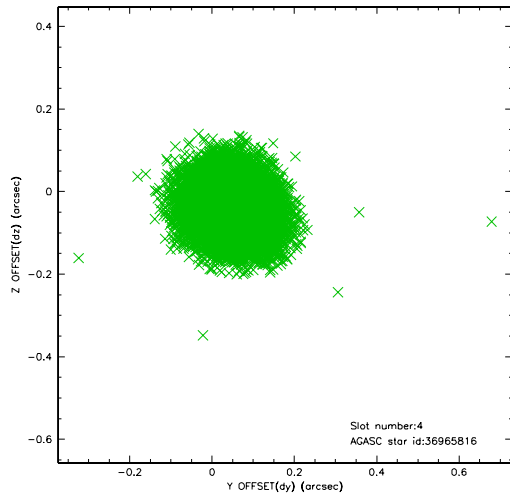
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6298	-0.008	0.038	0.009	0.015	0.000000	0.000000	-755.32	-1727.51
1	FID	ACIS-S-4	7.20	6298	-0.100	-0.006	0.008	0.014	0.000000	0.000000	2157.79	180.86
2	FID	ACIS-S-5	7.24	6298	0.076	-0.022	0.006	0.010	0.000000	0.000000	-1807.97	174.58
3	GUIDE	37356352	7.65	12595	-0.258	-0.122	0.054	0.087	187.433784	2.618460	-1929.67	-268.75
4	GUIDE	36965816	9.27	12586	0.051	-0.043	0.080	0.129	186.823353	1.771455	1752.56	-1018.54
5	GUIDE	36965296	9.09	12588	0.096	-0.053	0.070	0.115	186.926292	1.837429	1384.26	-778.40
6	GUIDE	37880408	10.07	12512	-0.184	0.060	0.126	0.206	187.758191	2.290324	-1332.15	1280.55
7	GUIDE	37883040	10.03	12540	0.299	0.161	0.134	0.223	187.575516	1.280402	2252.91	2176.02

2.4 Star Slots

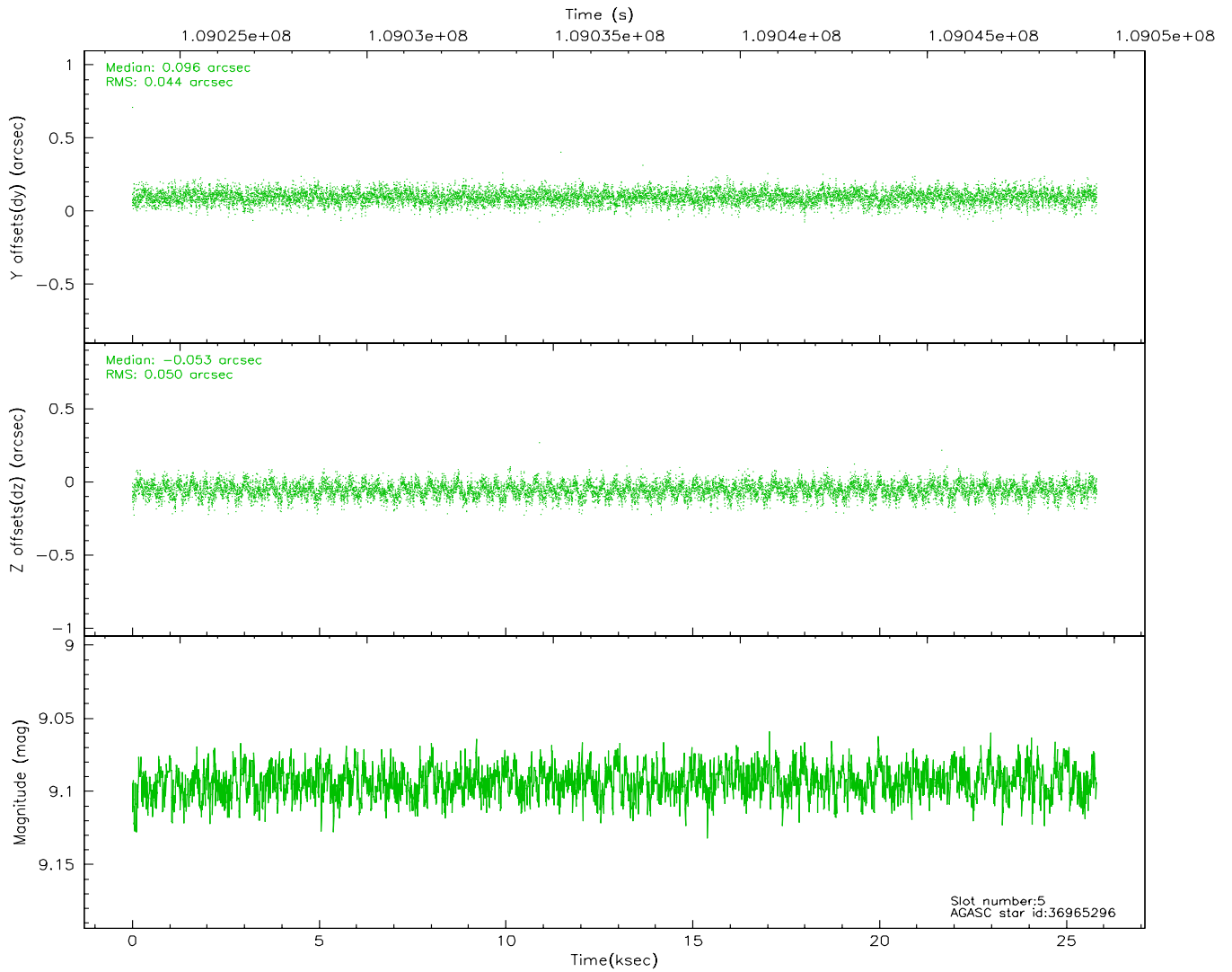
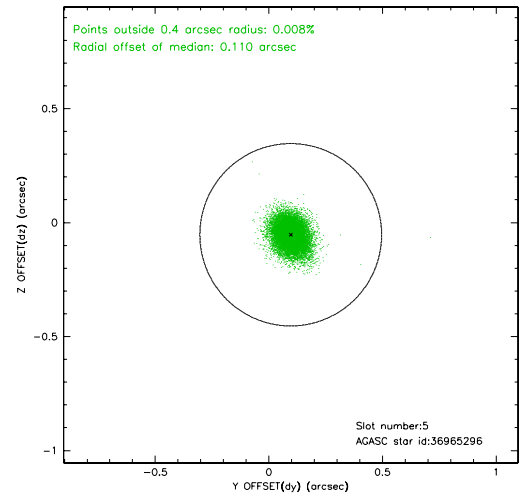
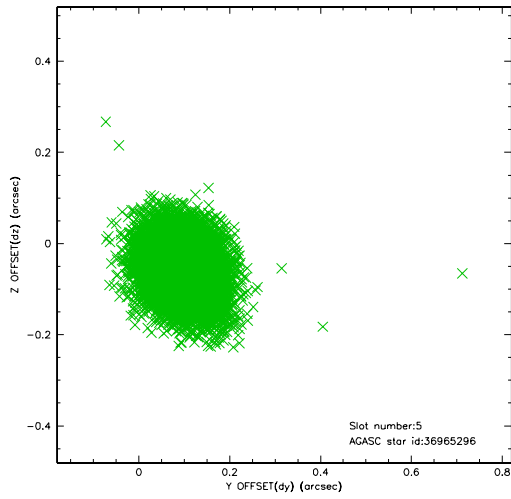
2.4.1 Slot 3



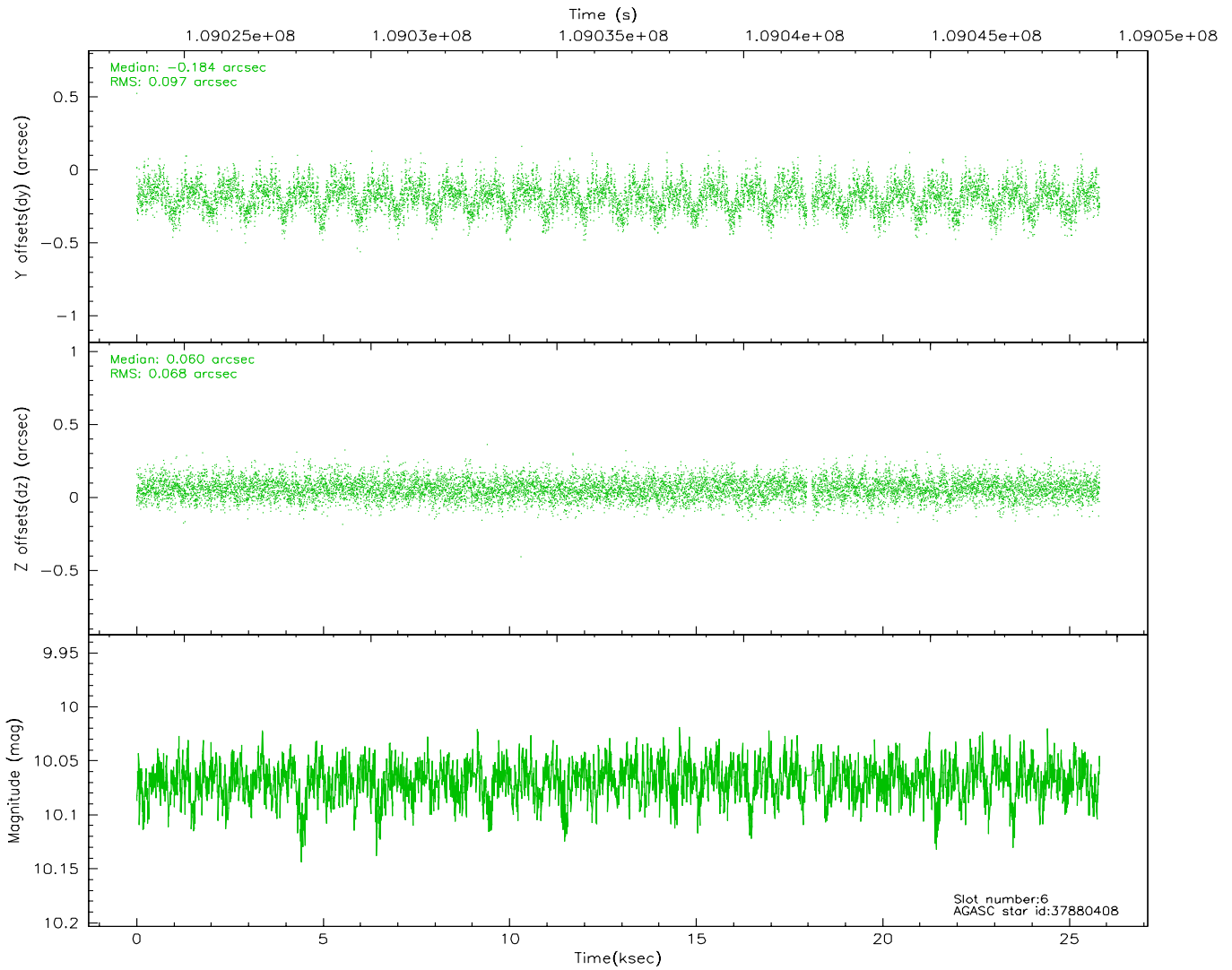
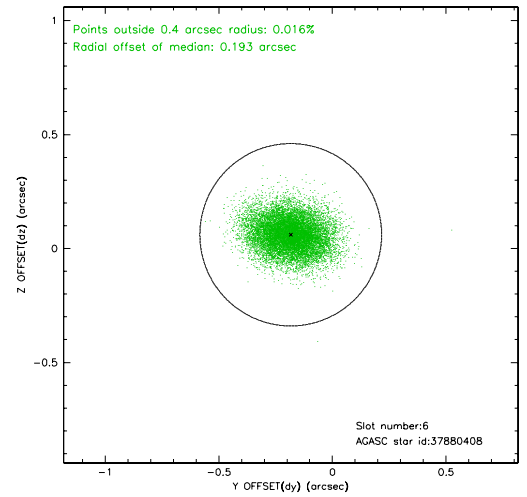
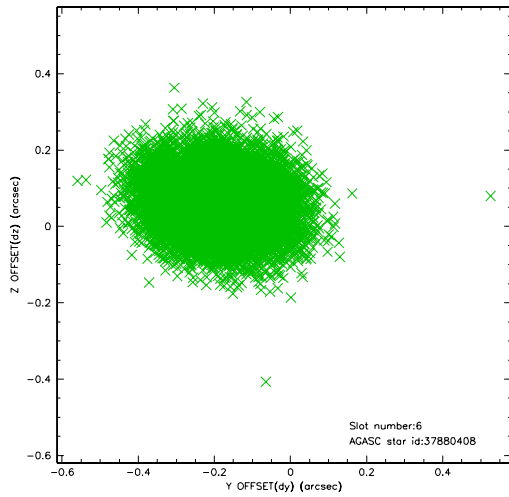
2.4.2 Slot 4



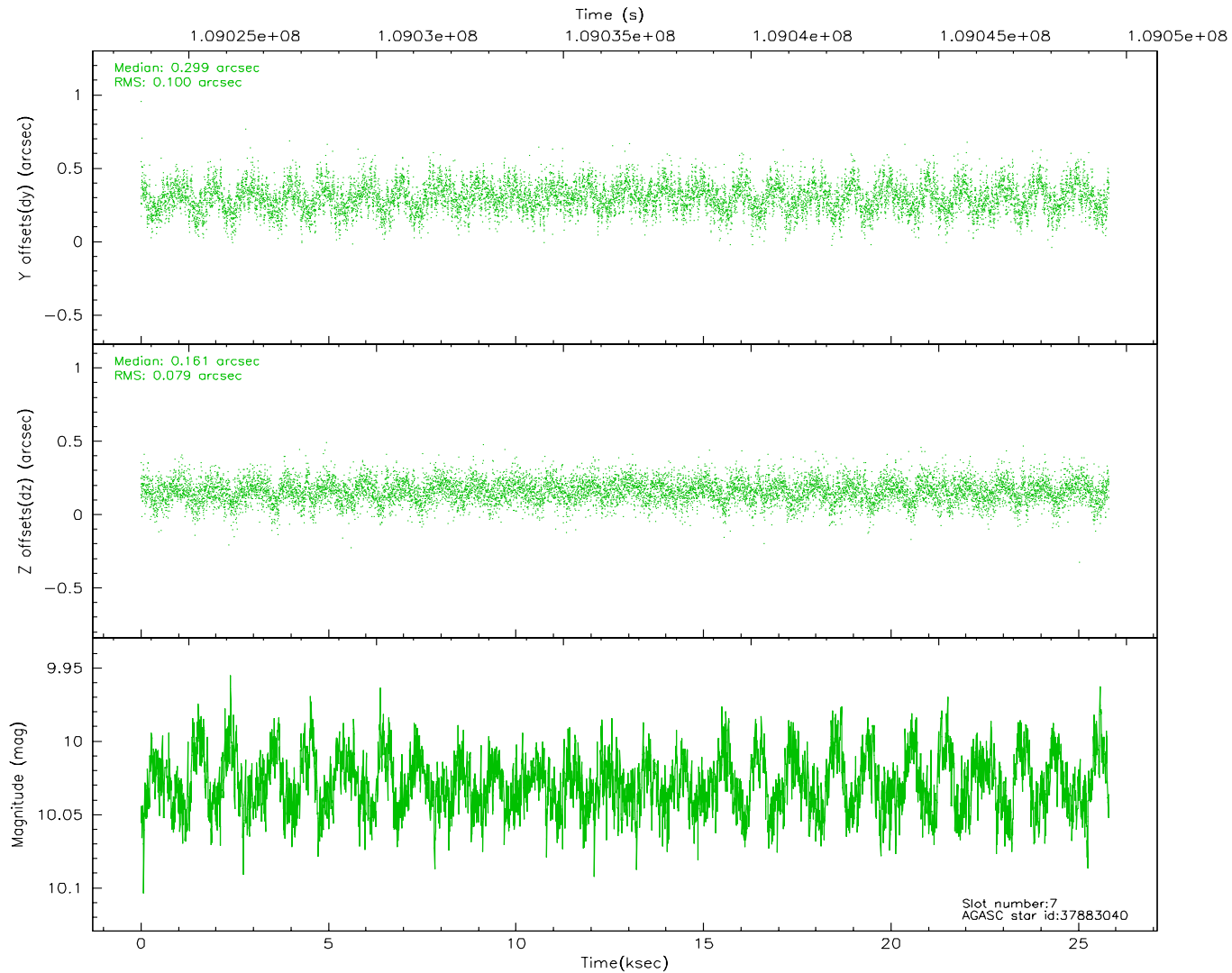
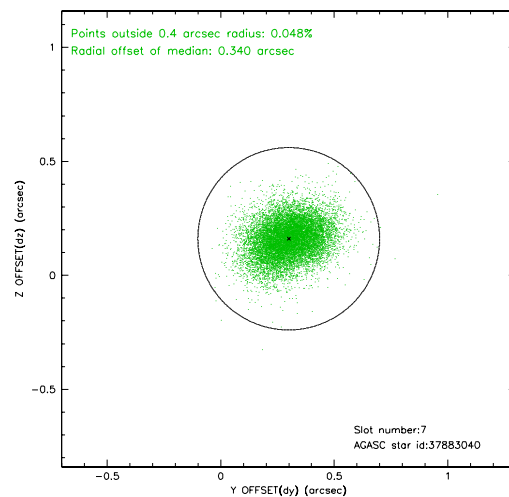
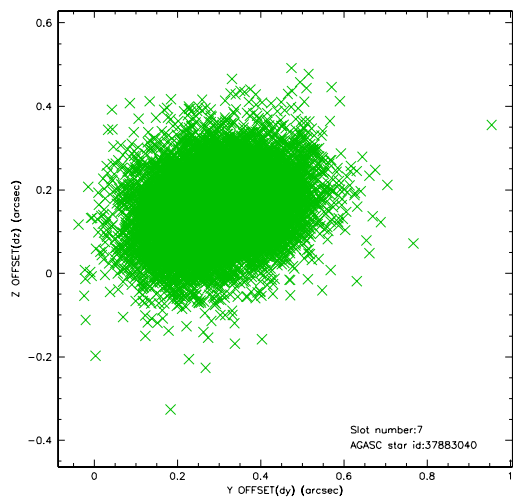
2.4.3 Slot 5



2.4.4 Slot 6

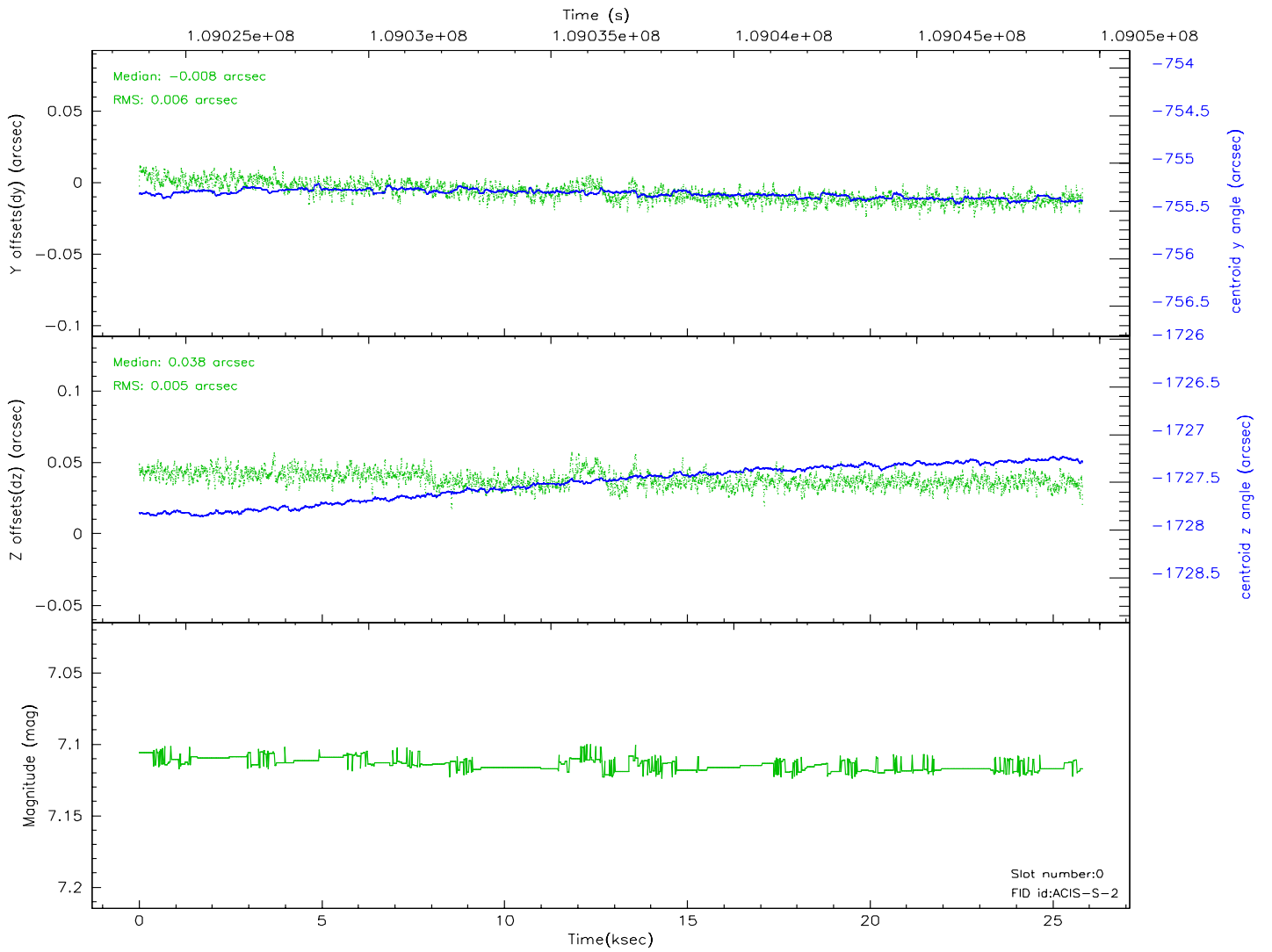
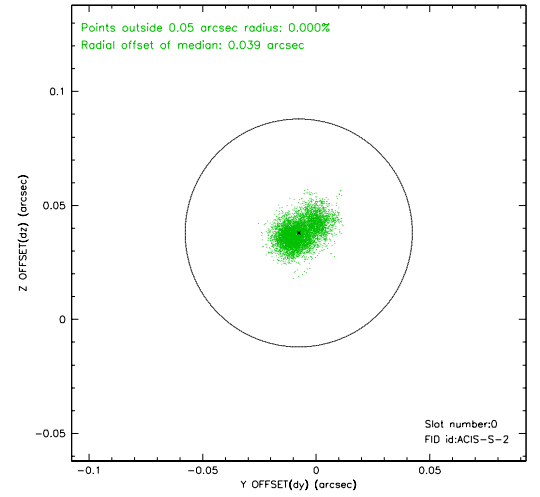
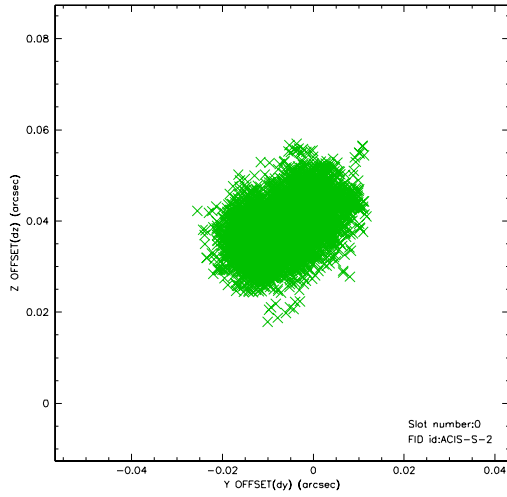


2.4.5 Slot 7

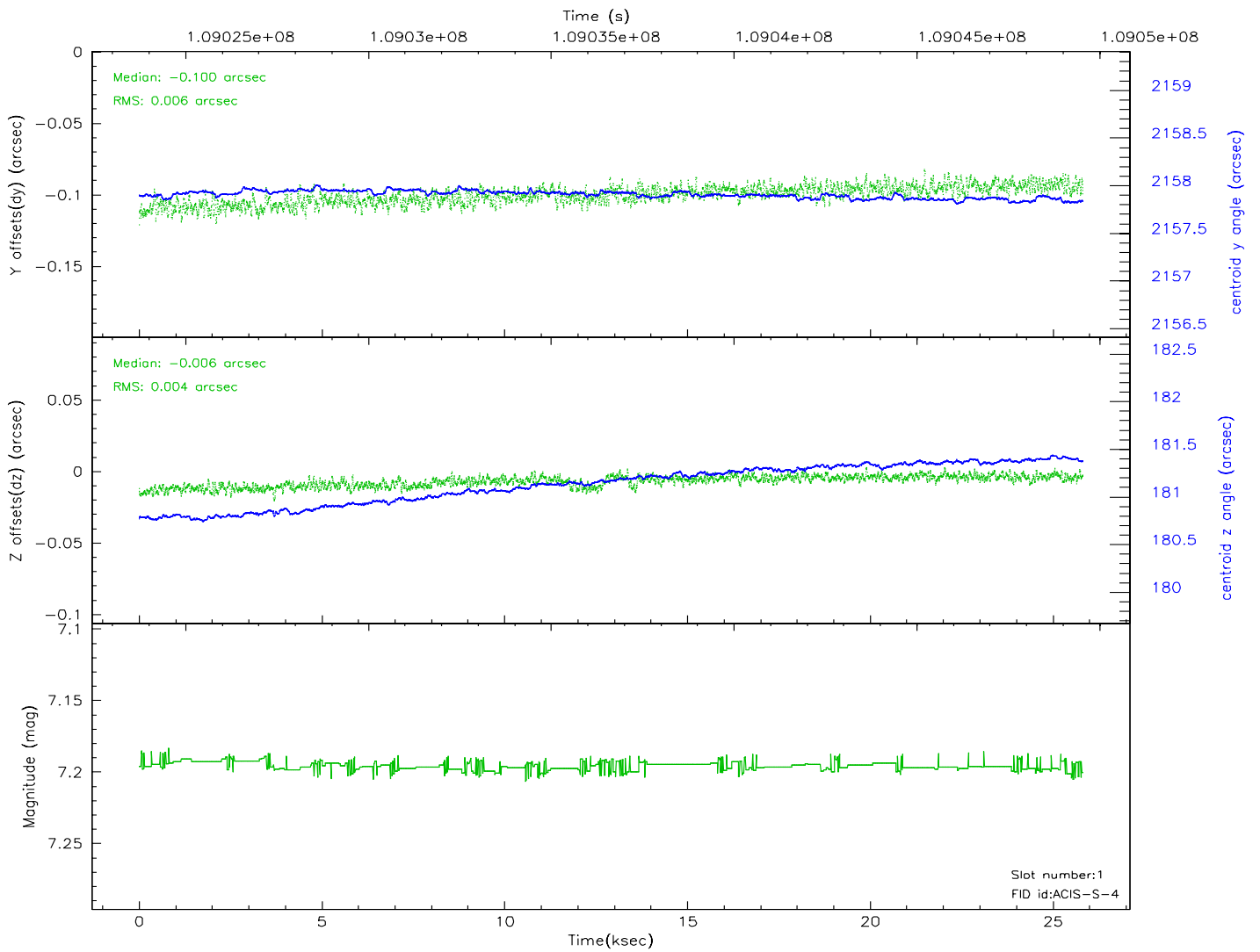
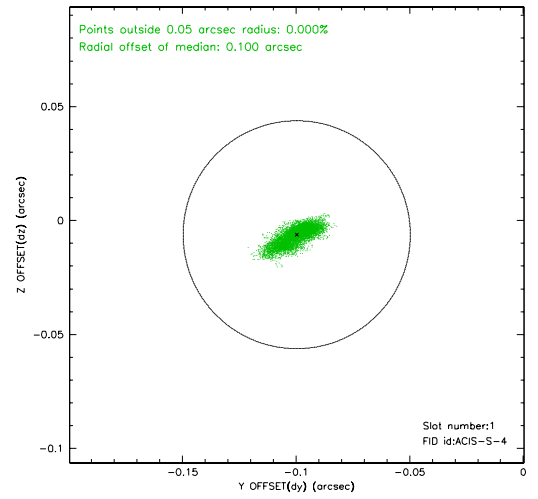
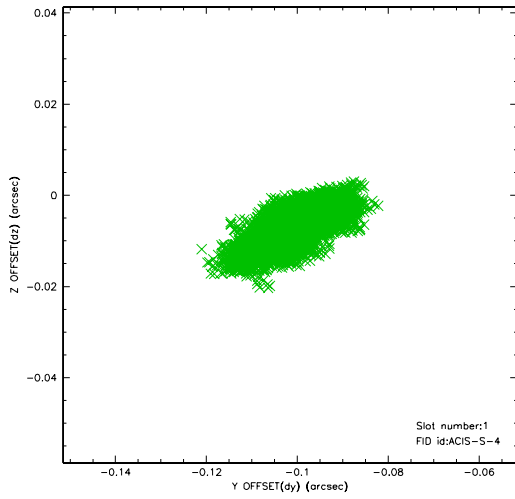


2.5 FID Slots

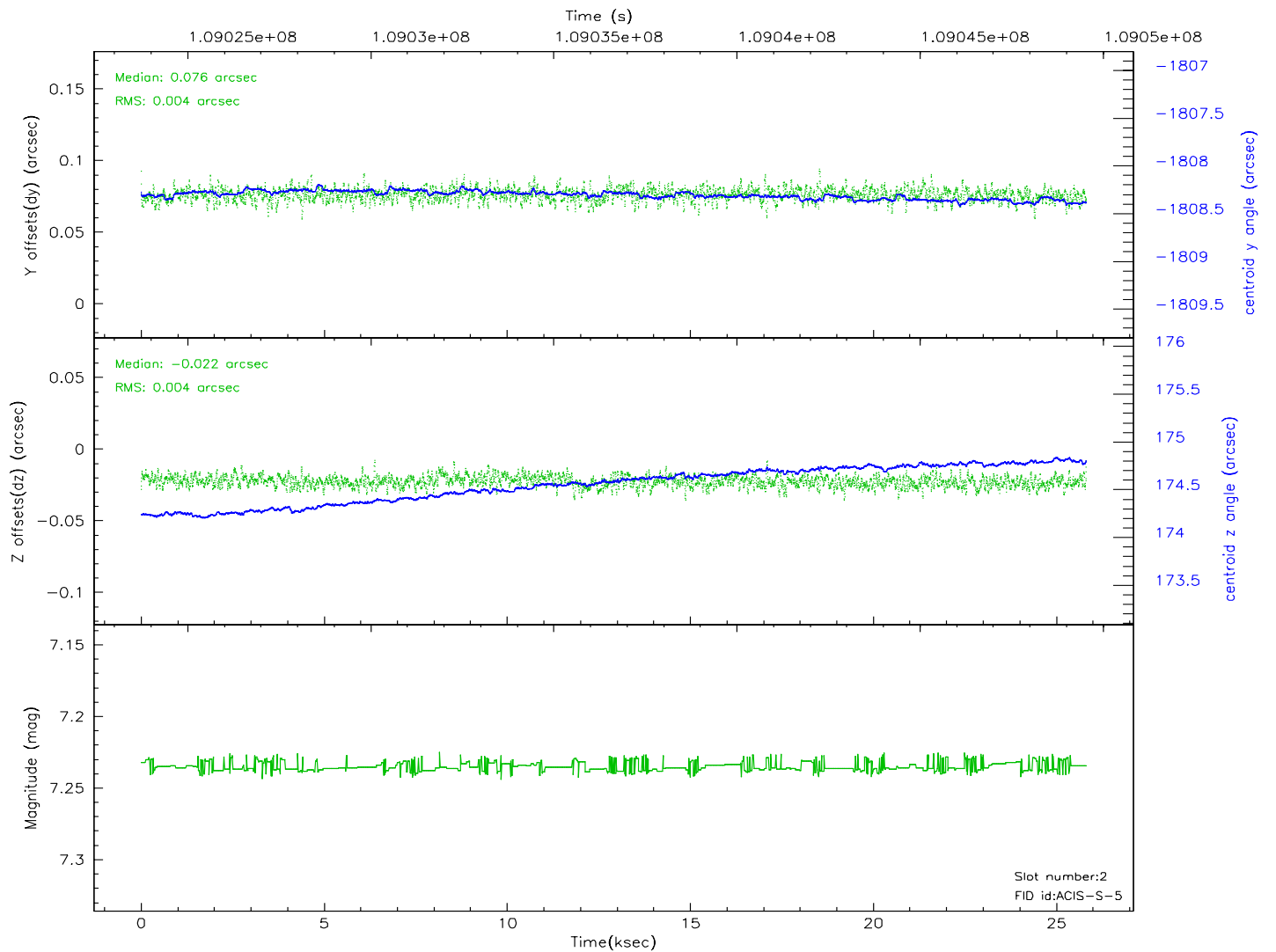
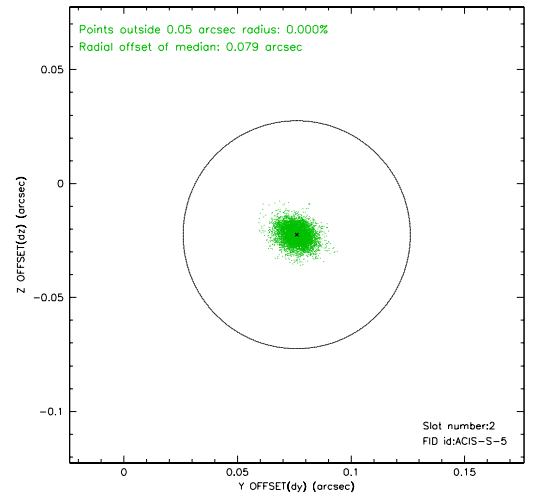
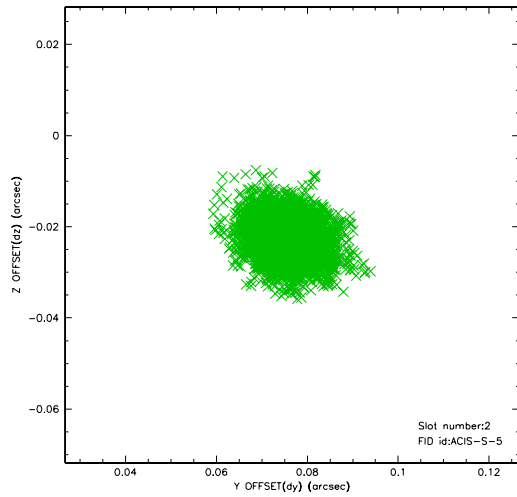
2.5.1 Slot 0



2.5.2 Slot 1

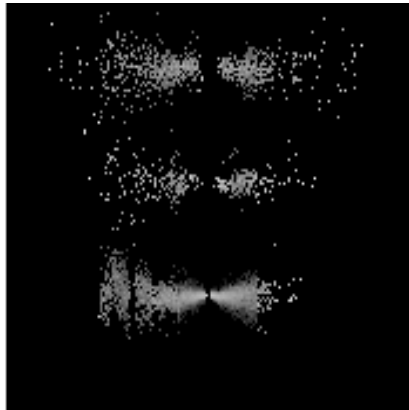


2.5.3 Slot 2

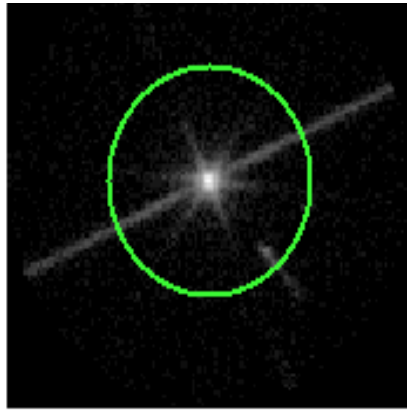


3 Gratings

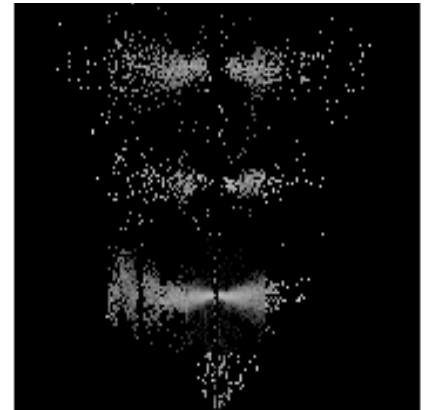
3.1 LETG Arm



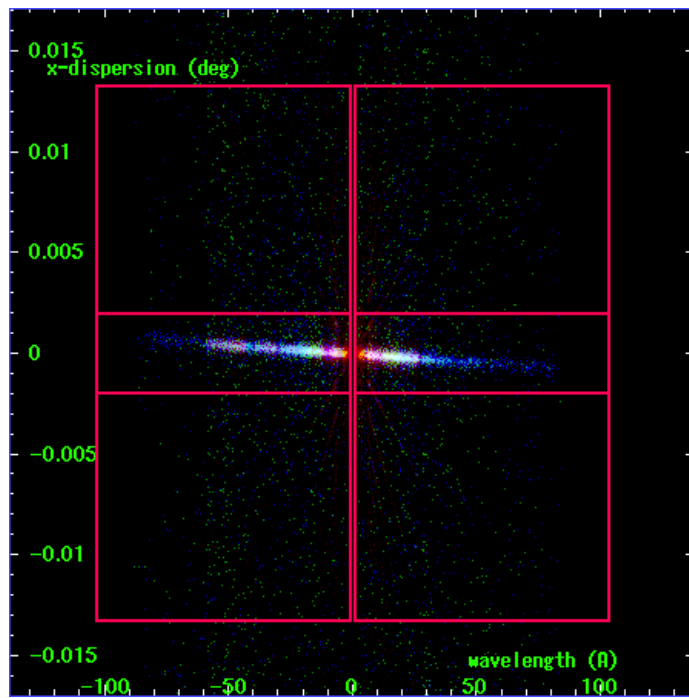
LETG Order Sort 123



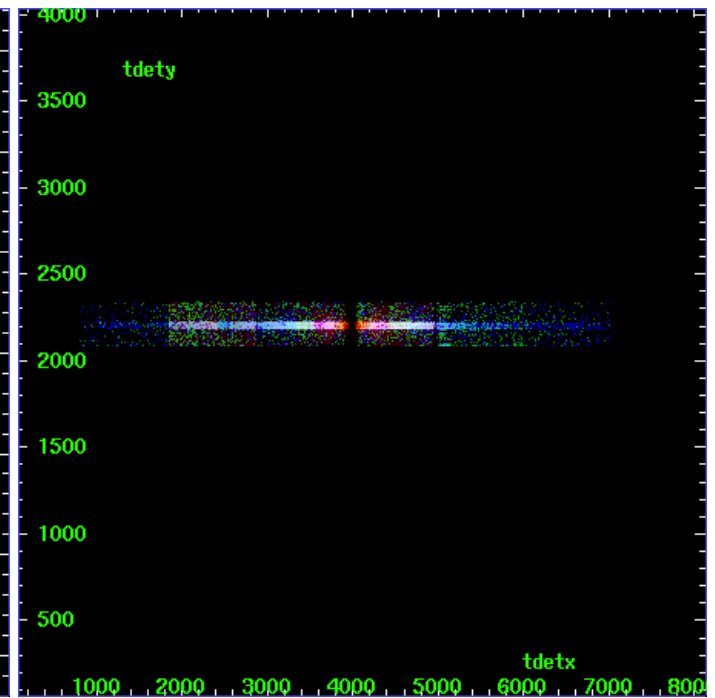
LETG Zero Order



LETG Order Sort ALL

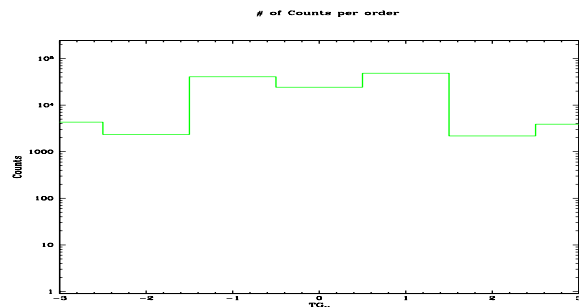


Spot Image LETG

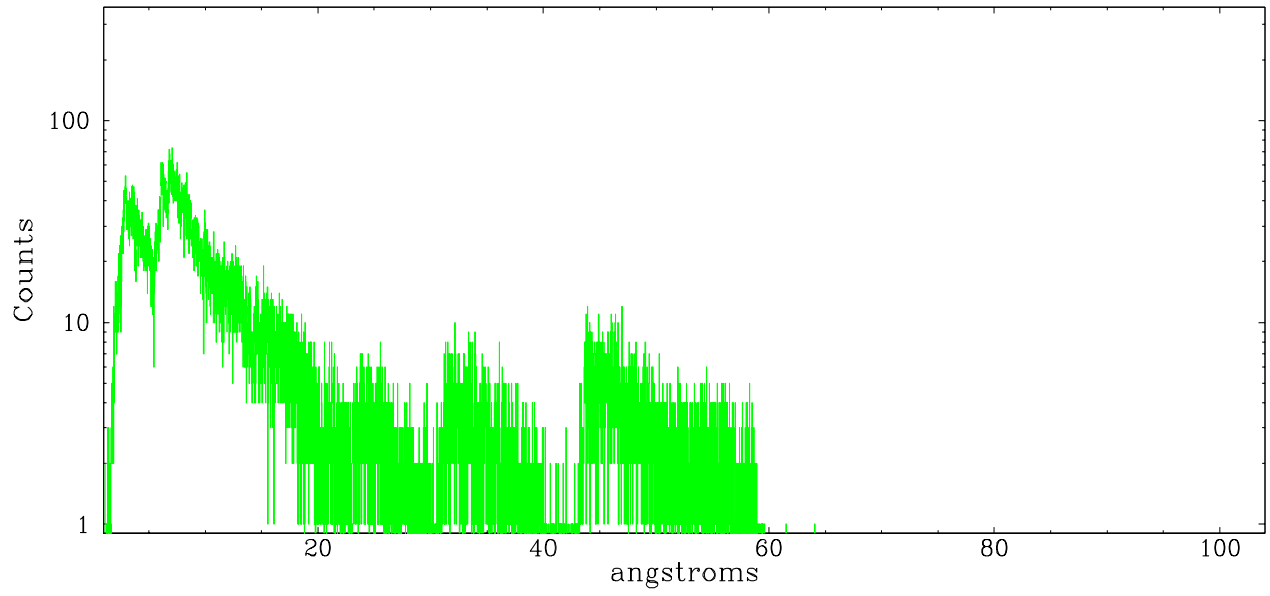


Full Detector LETG

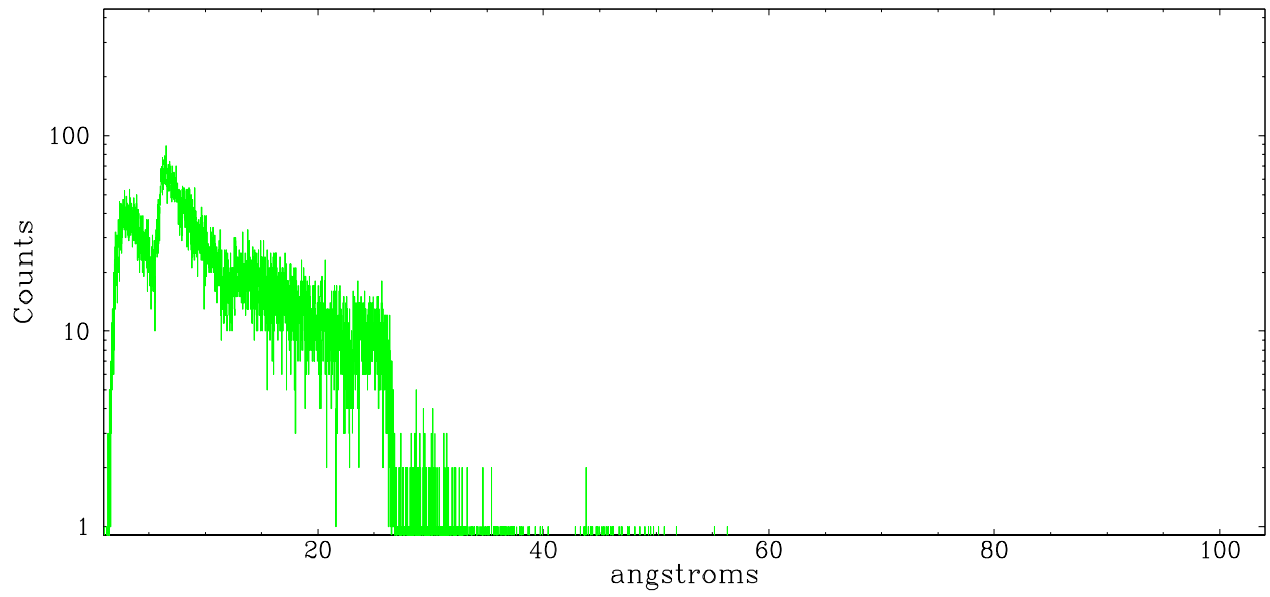
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	4316	2343	40676	24178	48292	2176	3895



leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.815

A.2 Comments

Time constraint not met. Constraint was 6/13/01 0000 tp 6/15/01 0000. Observation was executed starting 6/15/01 2011 to 6/16/01 0343. Part of a series of observations of SS433.