

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 4028 - L2 Version 001
Chandra X-Ray Center

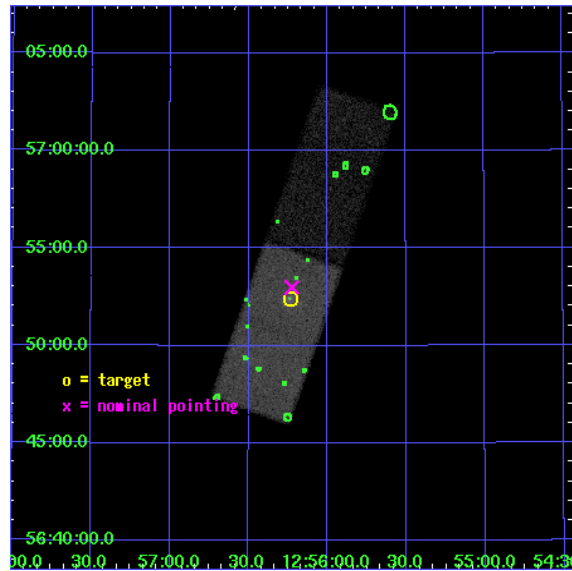
L2 Processing Date : Jul 20 2006

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1 Front

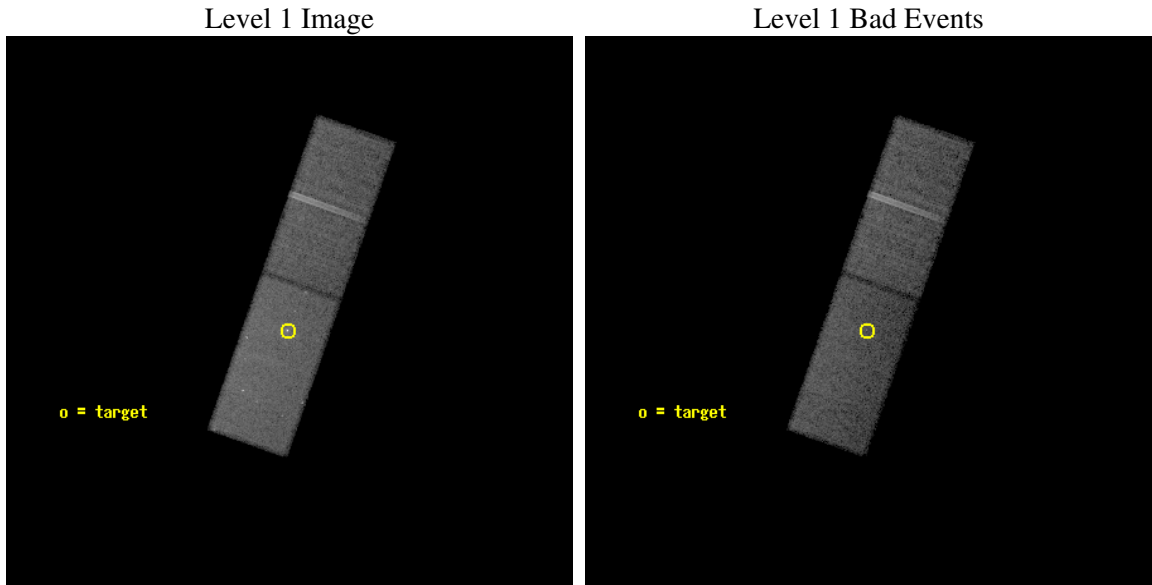
seq_num	700707
obs_id	4028
title	PROBING THE NUCLEAR GEOMETRY OF THE MOST LUMINOUS GALAXY IN THE LOCAL UNIVERSE WITH CHANDRA
observer	Dr. Sarah Gallagher
object	MARKARIAN 231
dtcycle	0
cycle	P
ra_targ	194.059167
dec_targ	56.873667
ra_nom	194.05633756794
dec_nom	56.883190270858
roll_nom	109.34507723585
revision	2
ontime	40700.799848378
livetime	39682.932626508
ontime6	40699.158828318
ontime7	40700.799848378
l2events	85804



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 6

Chip 7



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-20T18:09:21
revision	2

sched_exp_time	40520.000000
ontime	41204.42517978
ontime6	41202.78415972
ontime7	41204.42517978
l1events	322315

2.1.4 Events

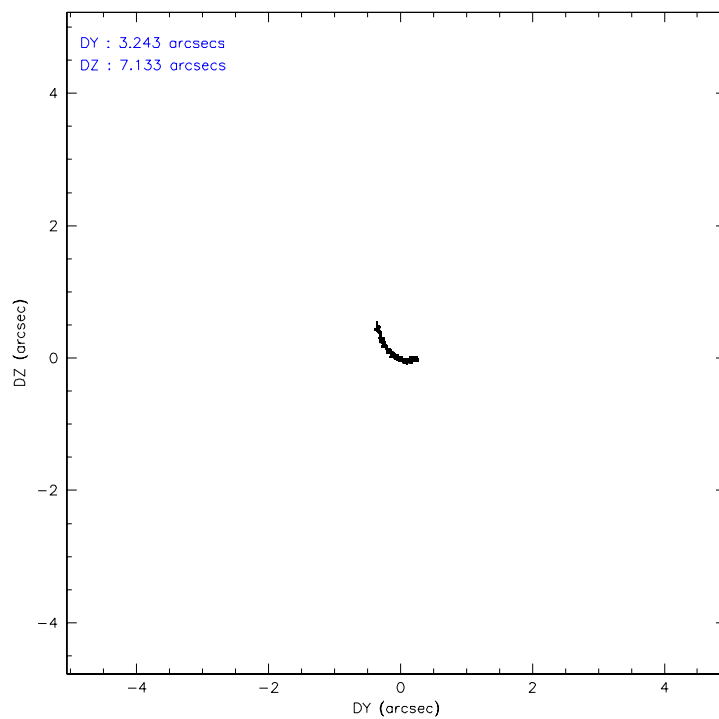
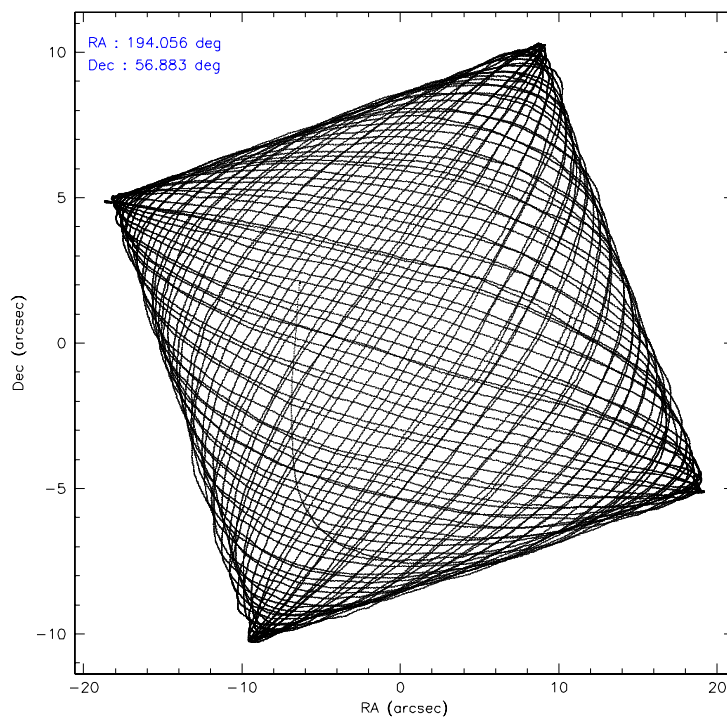
	ccd 6	ccd 7
level 1 events	144287	178028
rejected events	127617	104624
rejected %	88%	58%

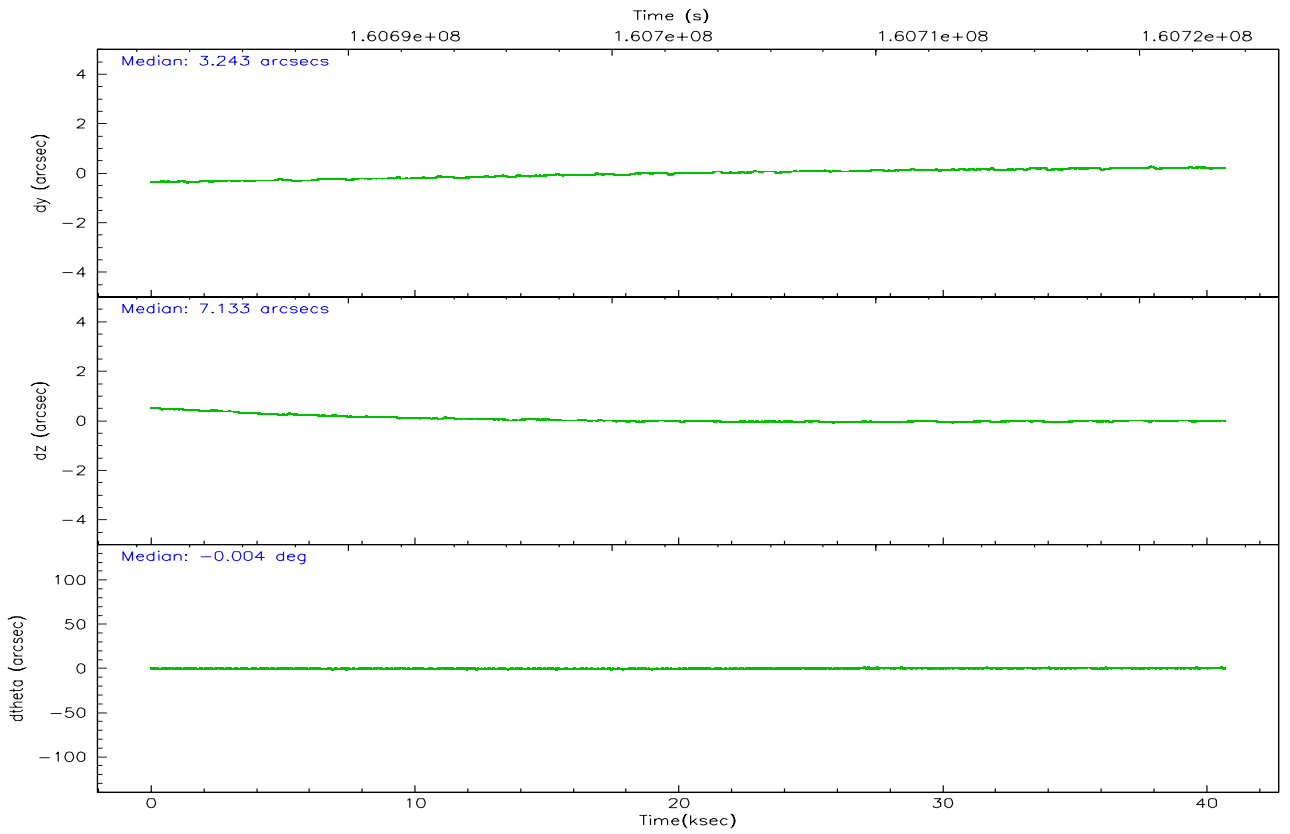
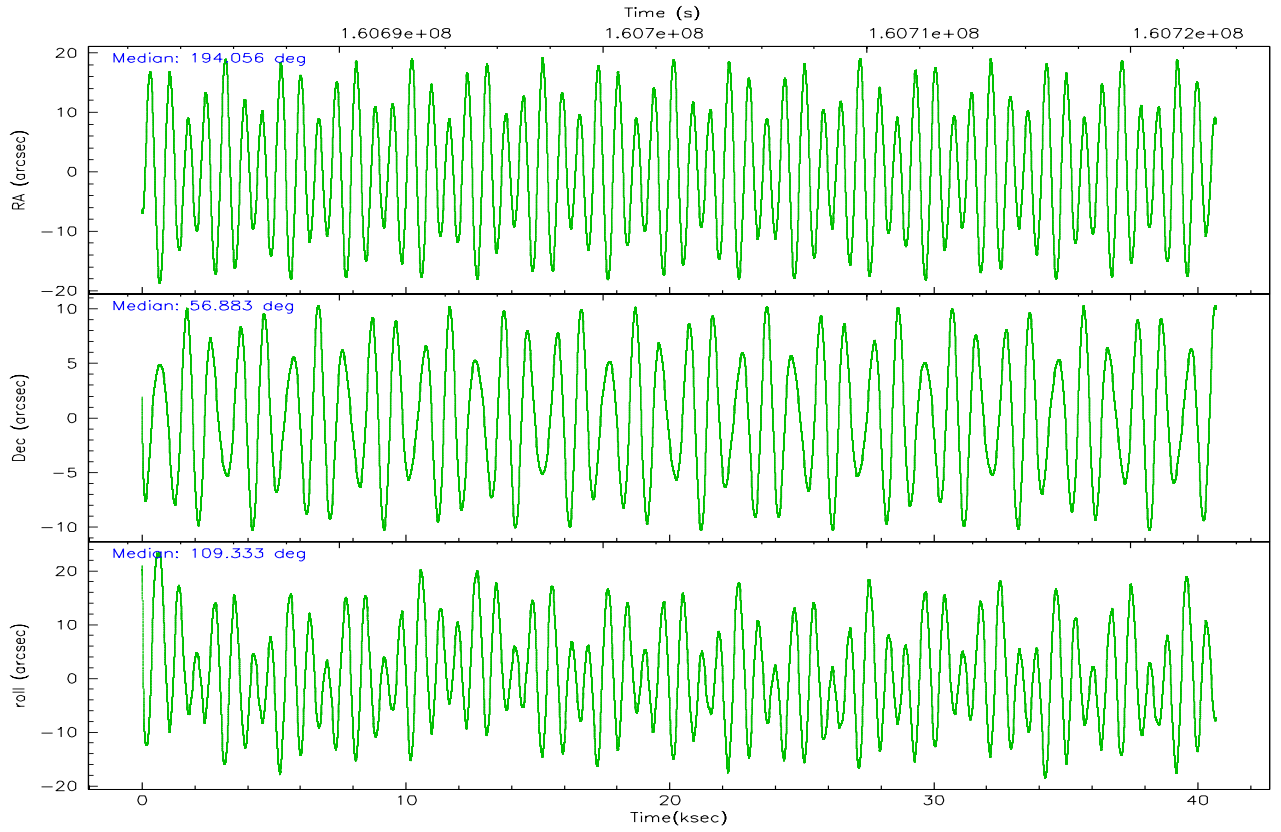
	ccd 6	ccd 7
grade 0 events	6555	6075
	4%	3%
grade 1 events	53	115
	0%	0%
grade 2 events	3081	18263
	2%	10%
grade 3 events	2041	4931
	1%	2%
grade 4 events	2054	4883
	1%	2%
grade 5 events	5879	12358
	4%	6%
grade 6 events	3143	40120
	2%	22%
grade 7 events	121481	91283
	84%	51%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/2	1/2
Pointing RA	194.094541	194.0563375679415	Subarray start row	0	257
Pointing Dec	56.865743	56.88319027085773	Subarray row count	1024	512
Pointing Roll	109.156444	109.3450772358497	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	1.6
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	160682709.184000	160681748.31435			
Observation start date	2003-02-03T18:04:05	2003-02-03T17:49:08			
Observation end time	160723229.184000	160723820.46611			
Observation end date	2003-02-04T05:19:25	2003-02-04T05:30:20			
Read mode	TIMED	TIMED			

2.3 Aspect



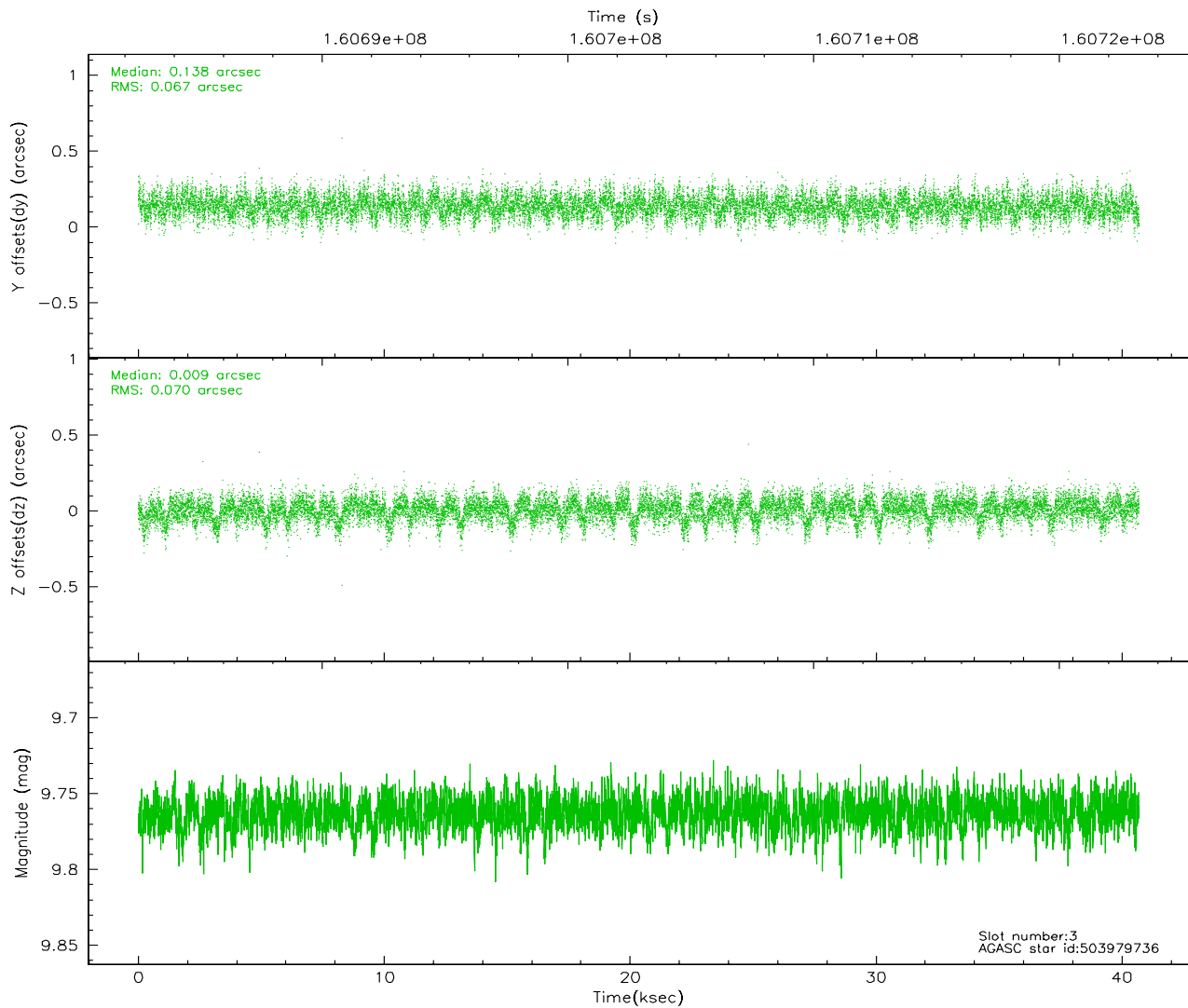
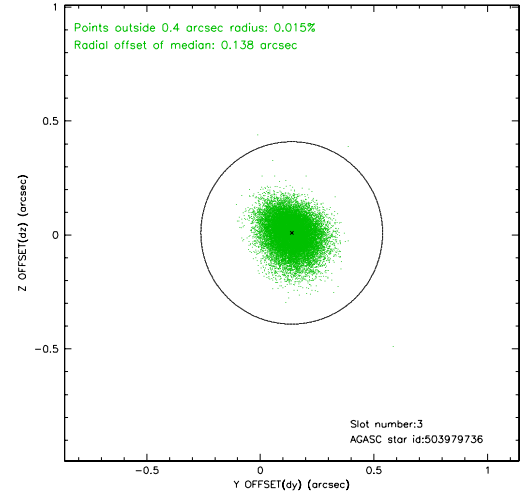
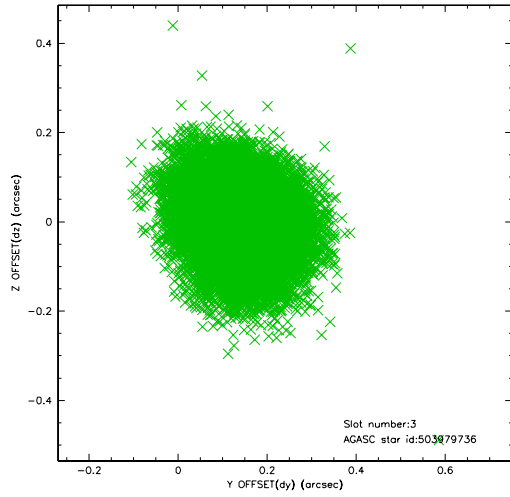


Slot Statistics

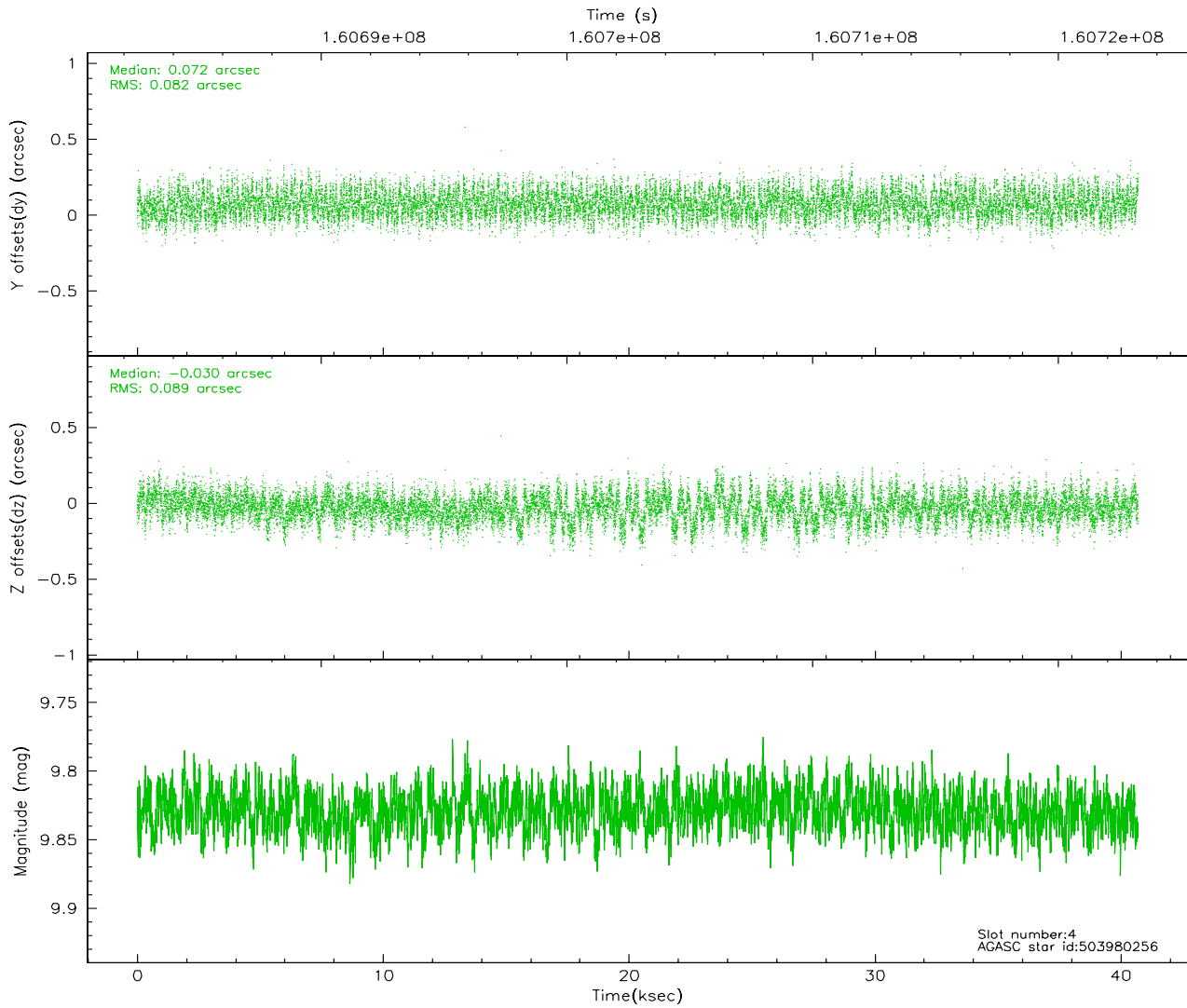
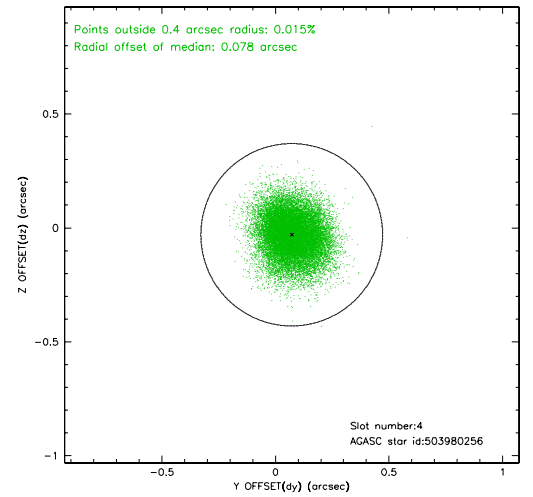
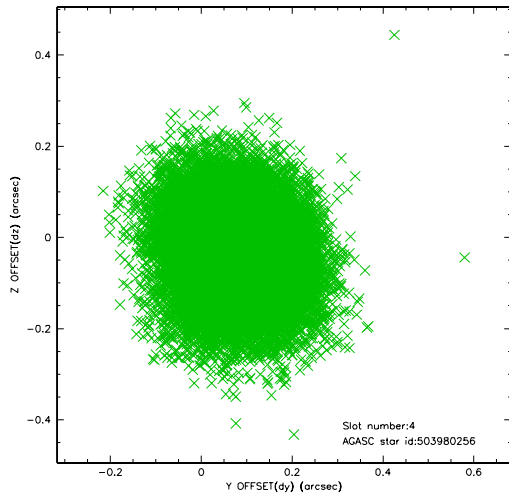
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9926	0.014	0.030	0.014	0.024	0.000000	0.000000	-755.85	-1728.34
1	FID	ACIS-S-4	7.20	9926	-0.028	0.000	0.011	0.016	0.000000	0.000000	2157.38	180.10
2	FID	ACIS-S-6	7.36	9926	-0.010	-0.021	0.010	0.016	0.000000	0.000000	406.12	817.49
3	GUIDE	503979736	9.76	19838	0.138	0.009	0.103	0.169	194.603351	57.079018	402.67	-1193.29
4	GUIDE	503980256	9.83	19845	0.072	-0.030	0.130	0.206	193.427147	56.429056	-1043.05	1768.54
5	GUIDE	503980496	9.70	19667	-0.108	0.186	0.129	0.205	194.652132	56.943955	-88.81	-1127.83
6	GUIDE	503980696	10.16	19760	-0.026	0.097	0.124	0.200	194.660958	56.647093	-1106.72	-802.33
7	GUIDE	503977472	8.73	19847	-0.078	-0.257	0.077	0.124	193.107383	56.634174	-133.22	2114.92

2.4 Star Slots

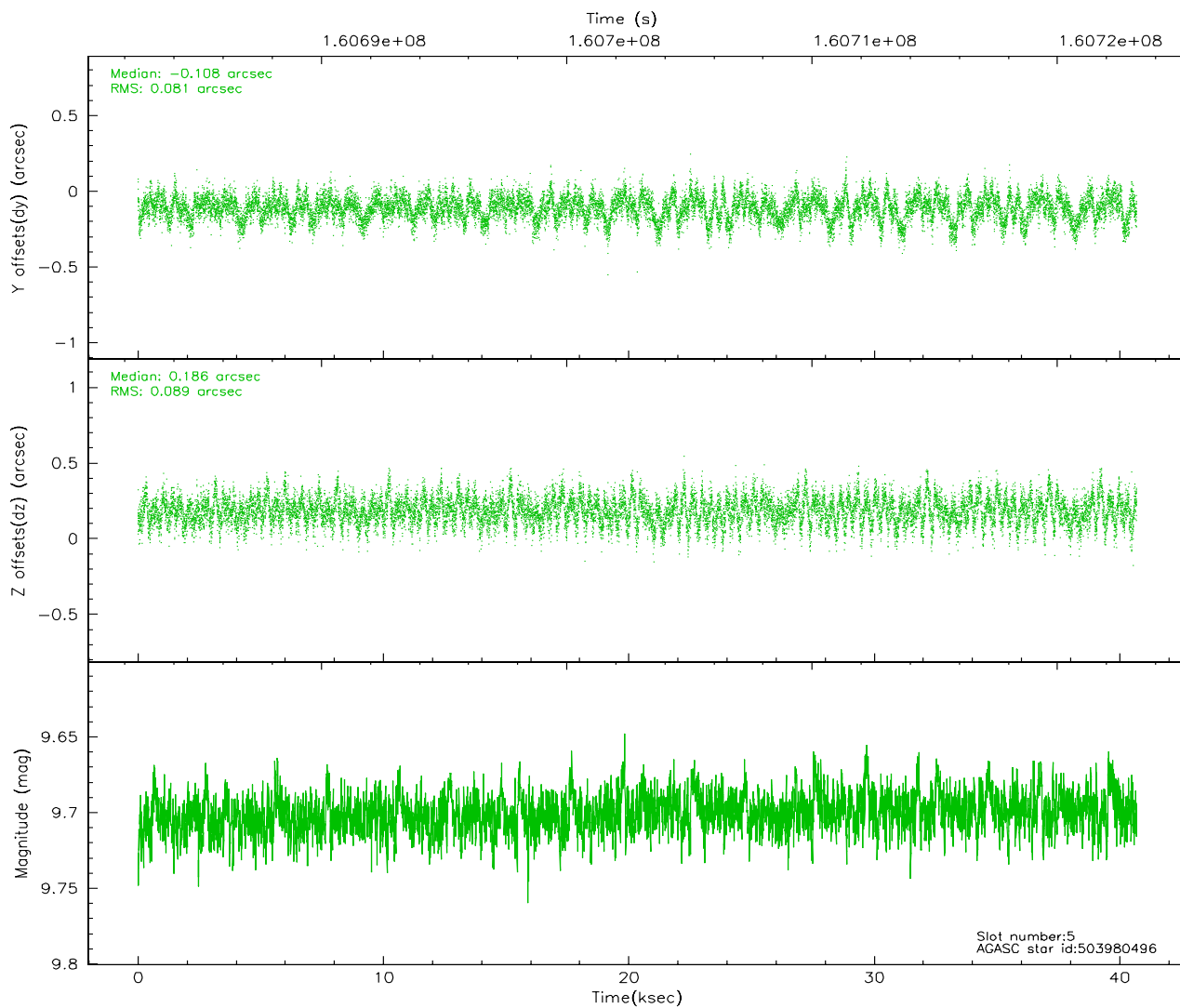
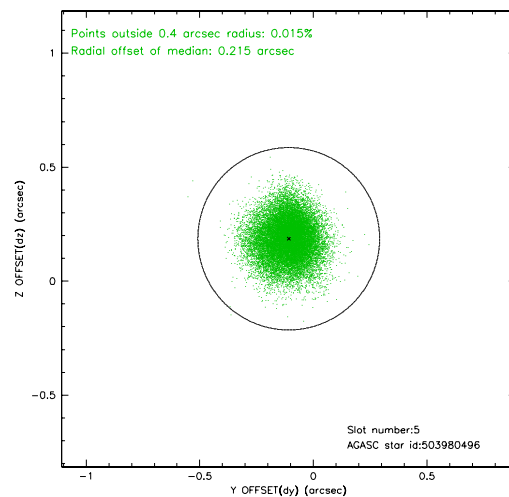
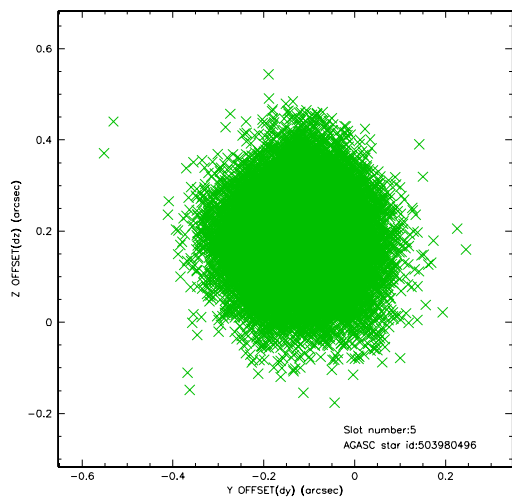
2.4.1 Slot 3



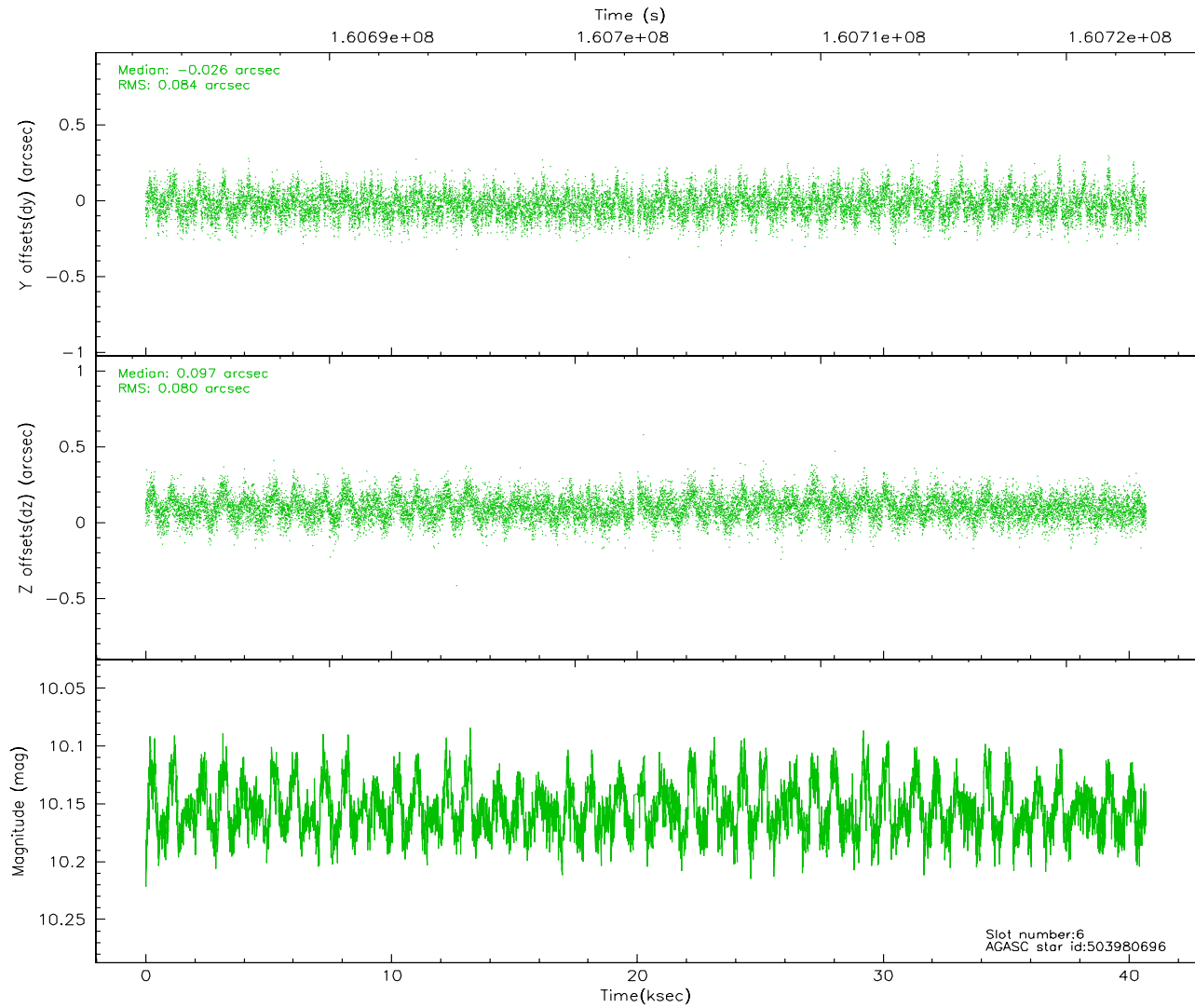
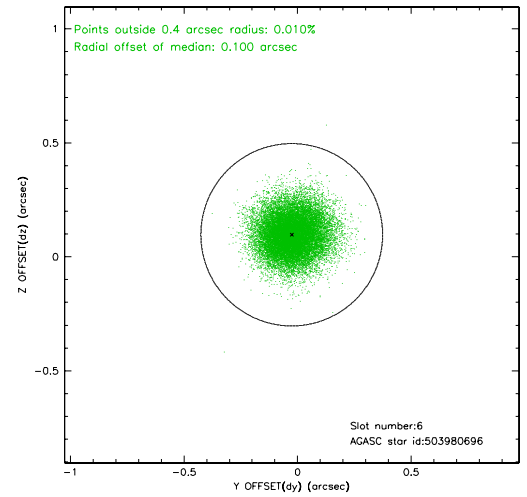
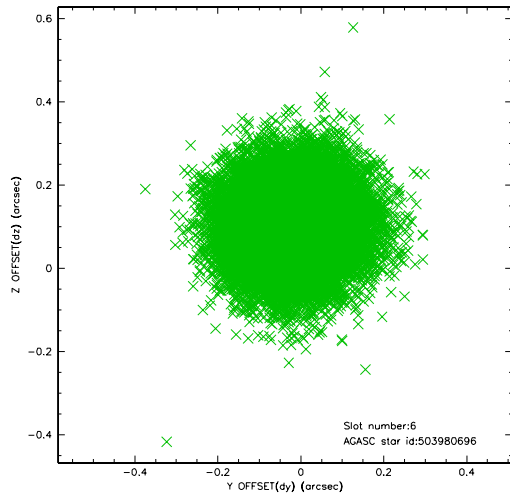
2.4.2 Slot 4



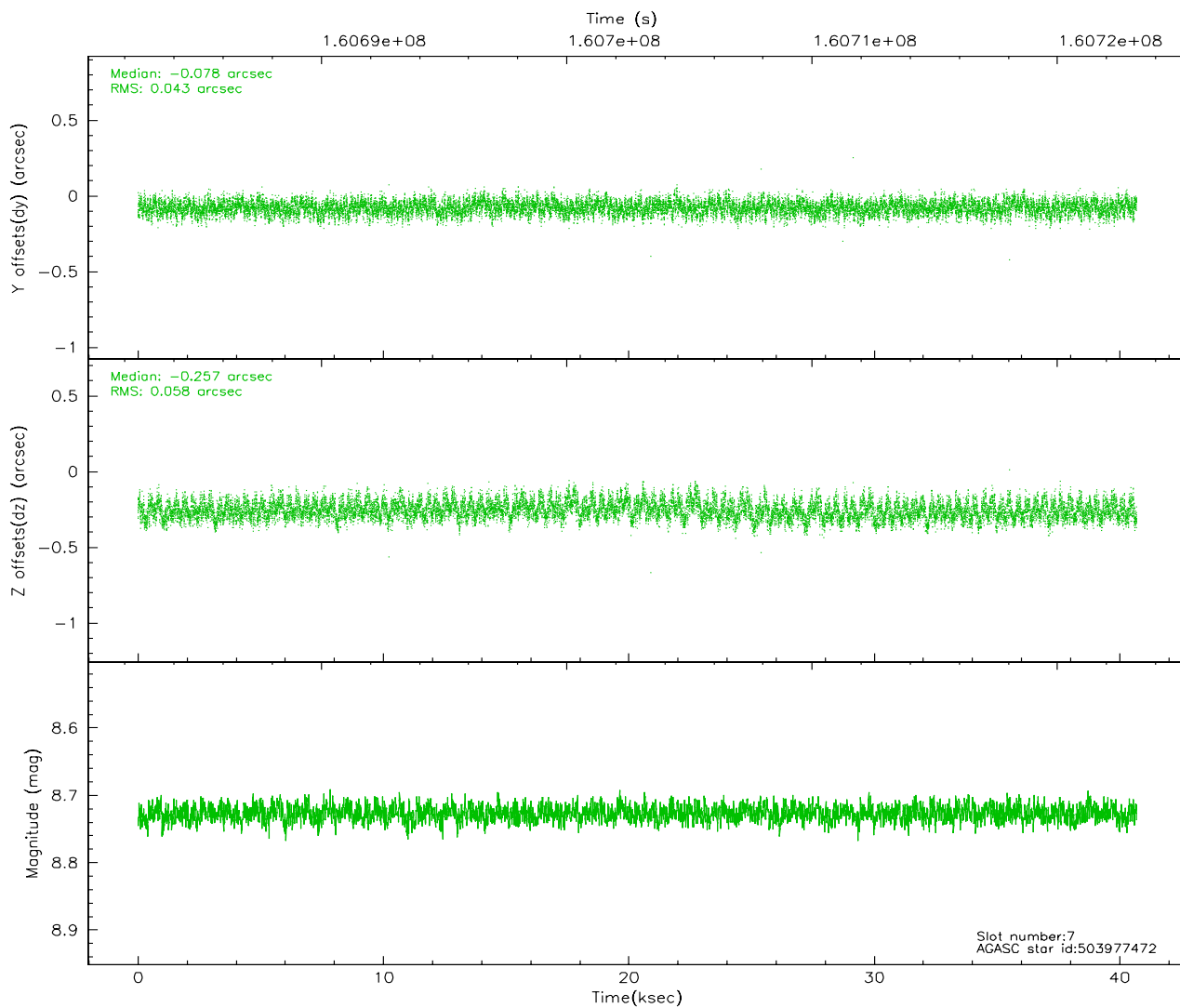
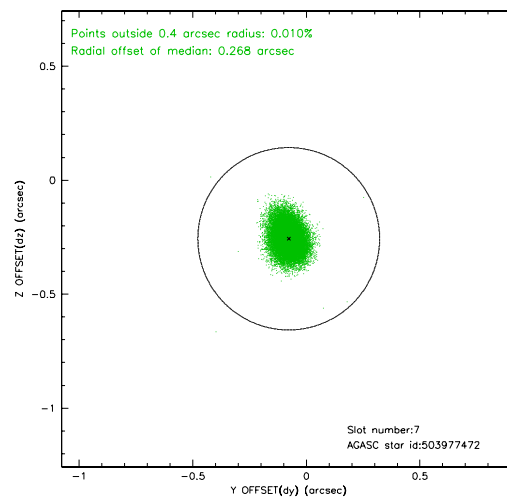
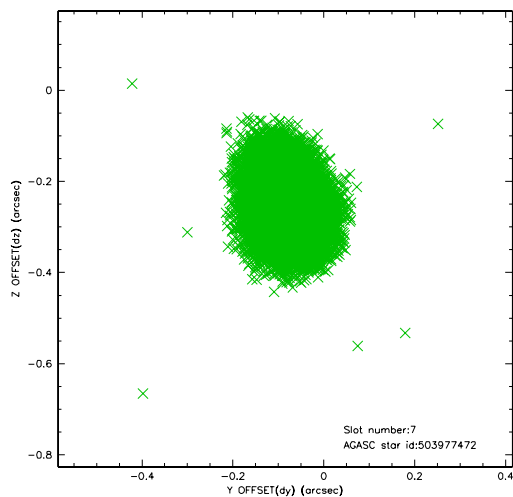
2.4.3 Slot 5



2.4.4 Slot 6

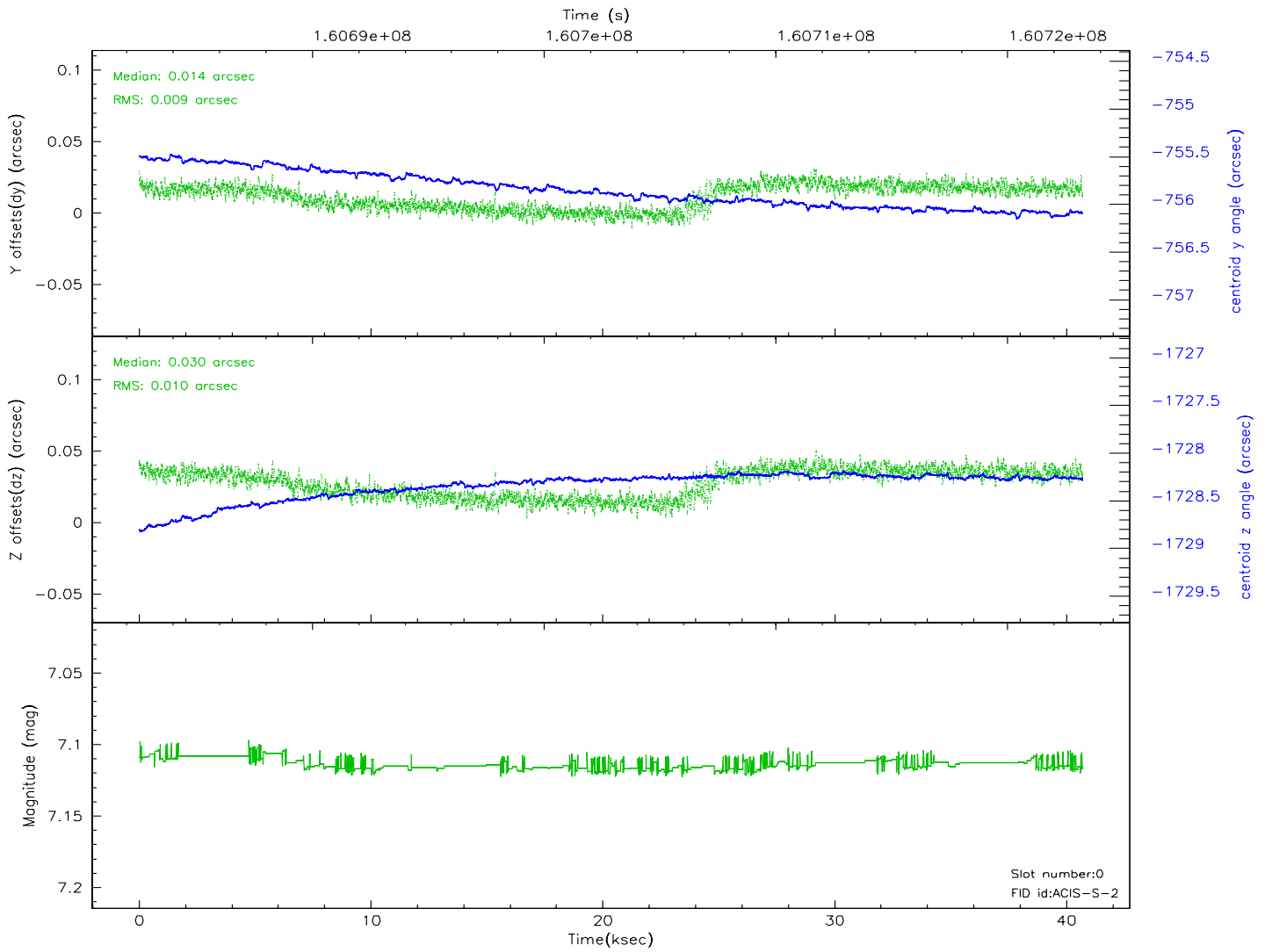
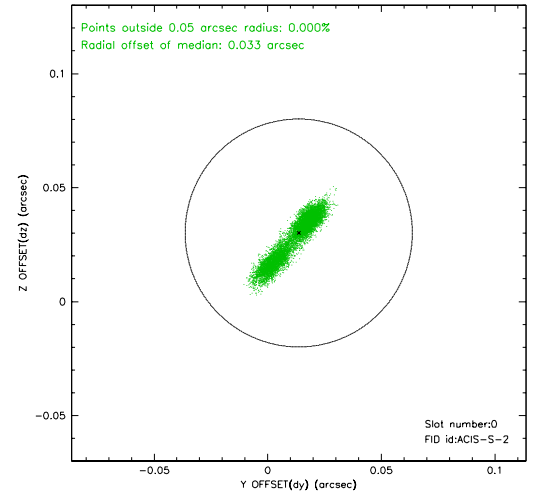
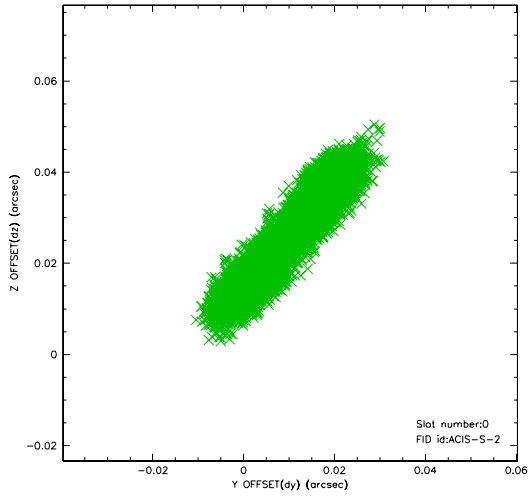


2.4.5 Slot 7

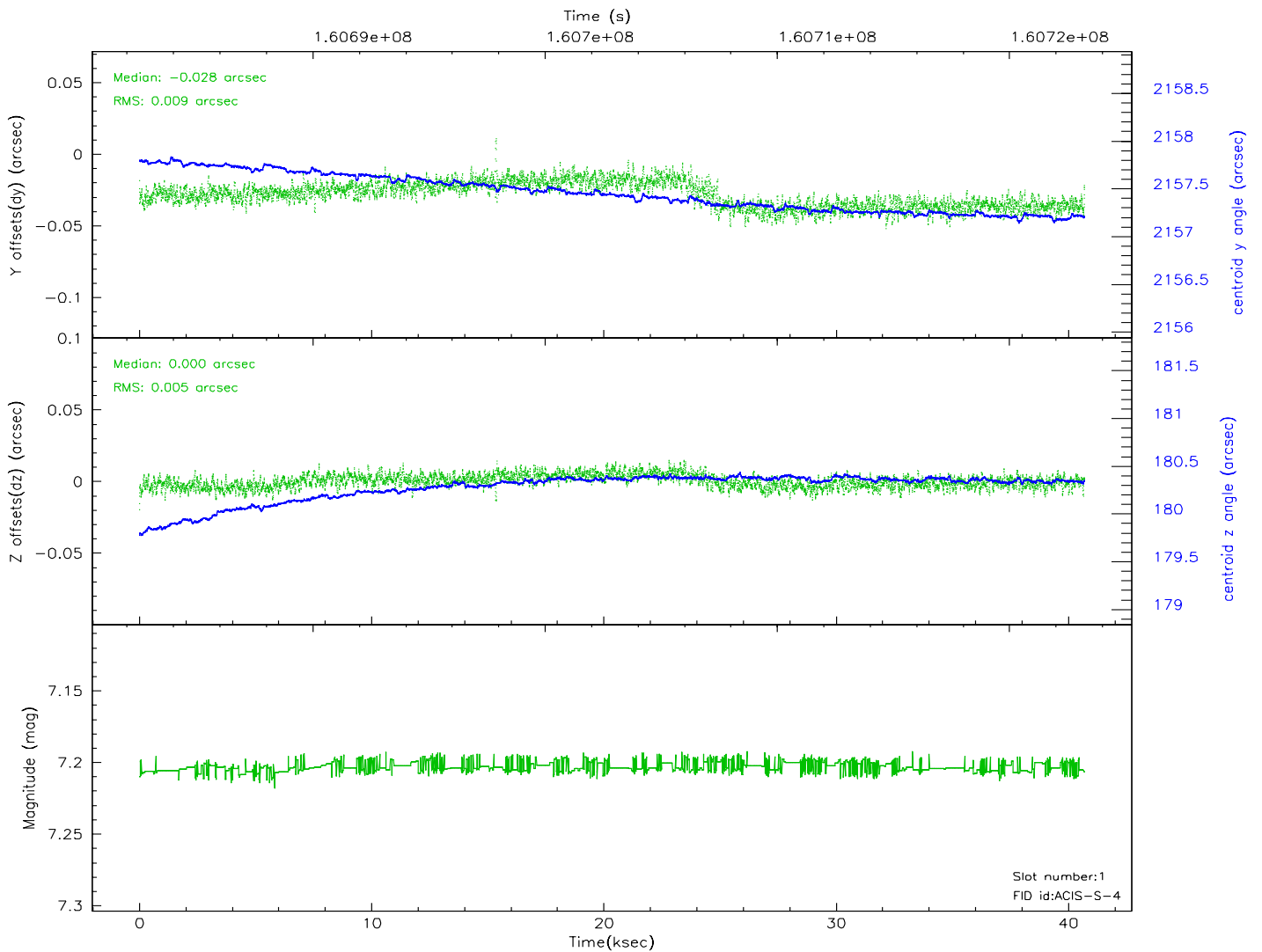
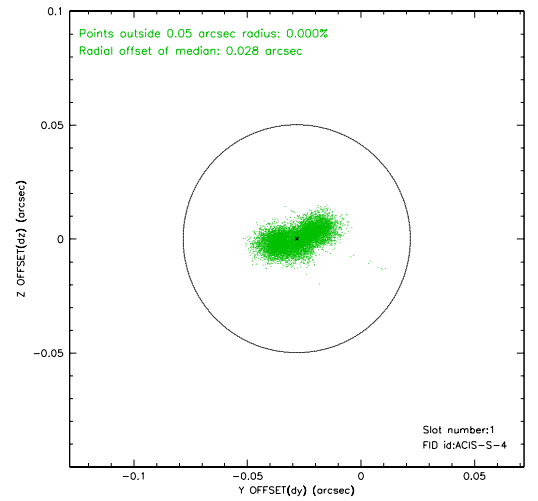
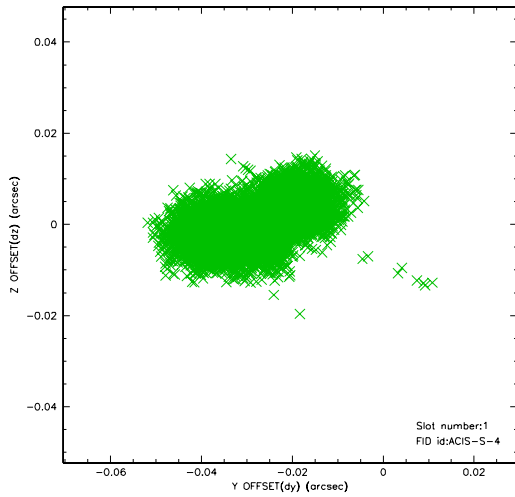


2.5 FID Slots

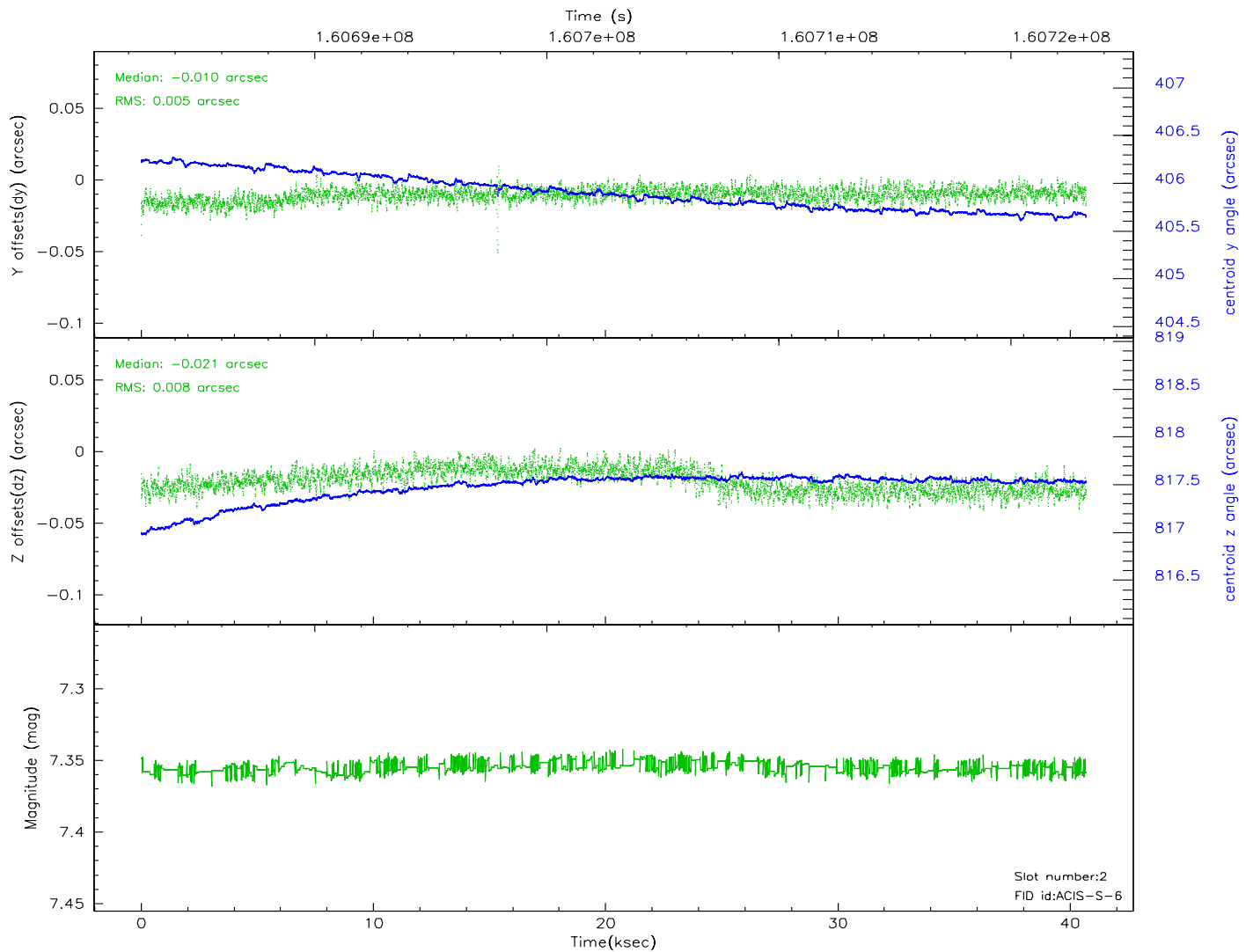
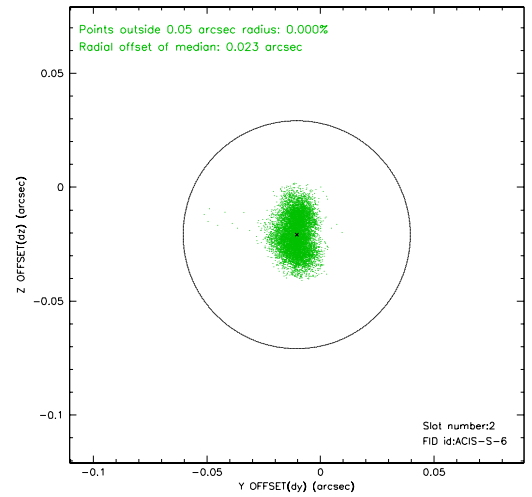
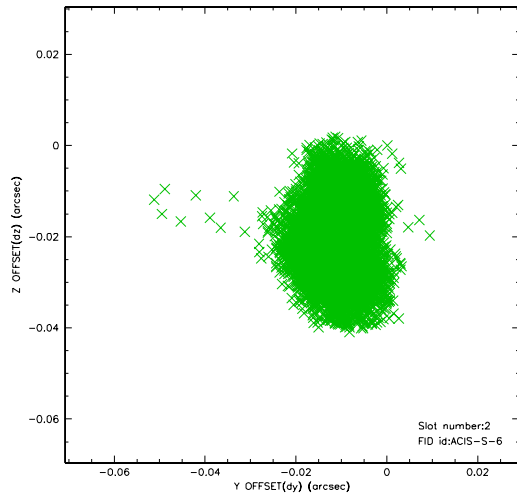
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

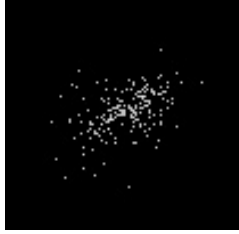
4.36 arcmin



2.39 arcmin



4.32 arcmin



2.39 arcmin



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.07.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.7

A.2 Comments