

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 341 - L2 Version 4

Chandra X-Ray Center

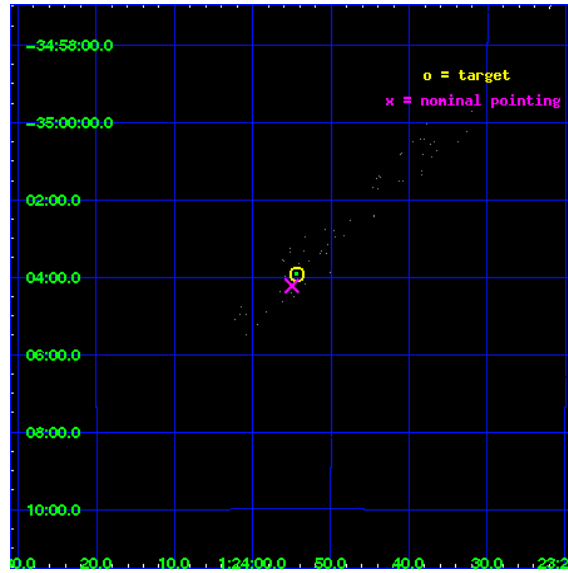
L2 Processing Date : Nov 25 2009

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1 Front

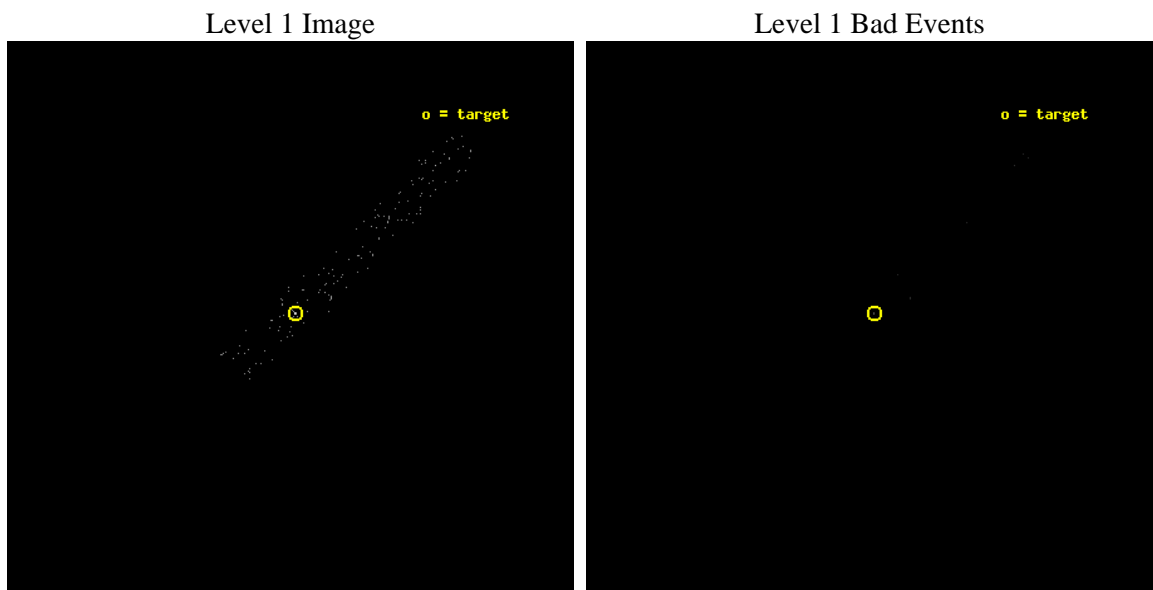
seq_num	700013	Sequence number
obs_id	341	Observation id
title	STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS	Proposal title
observer	Professor Andrew Wilson	Principal investigator
object	NGC 526A	Source name
dtcycle	0	
cycle	P	events are from which exps? P[primary] S[econdar
ra_targ	20.97633	Observer's specified target RA
dec_targ	-35.06561	Observer's specified target Dec
ra_nom	20.979139273631	Nominal RA
dec_nom	-35.070524284765	Nominal Dec
roll_nom	315.93176819385	Nominal Roll
revision	4	Processing version of data
ontime	331.2732097134	Sum of GTIs [s]
livetime	58.118106967264	Livetime [s]
ontime7	331.2732097134	Sum of GTIs [s]
l2events	160	Number of level 2 events



2 OBI Primary

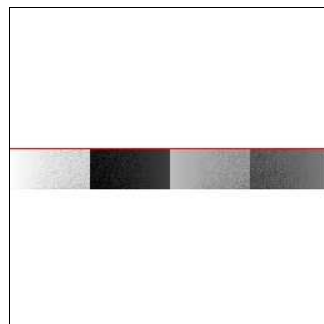
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	331.2732097134	Sum of GTIs [s]
caldsver	4.1.4	 	ontime7	331.2732097134	Sum of GTIs [s]
date	2009-11-25T08:08:54	Date and time of file creation	l1events	270	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

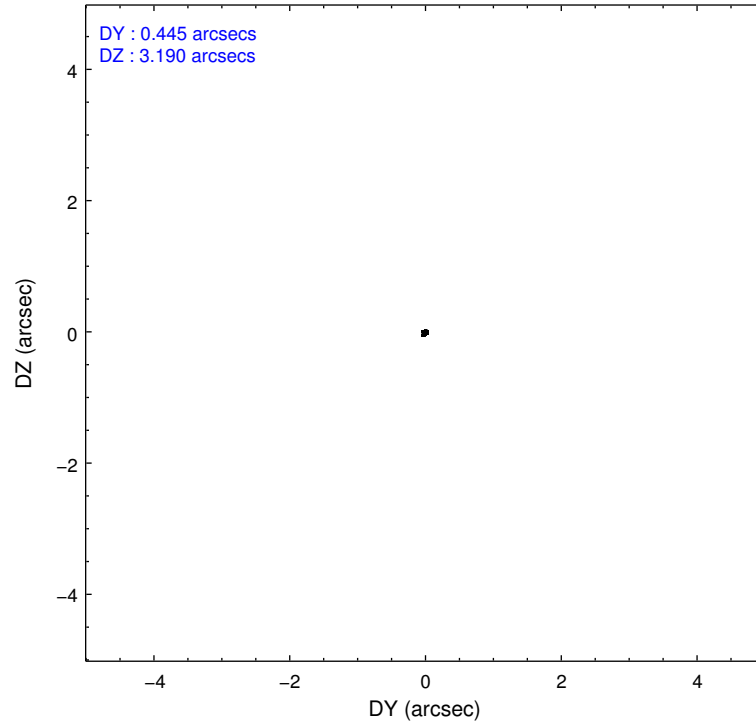
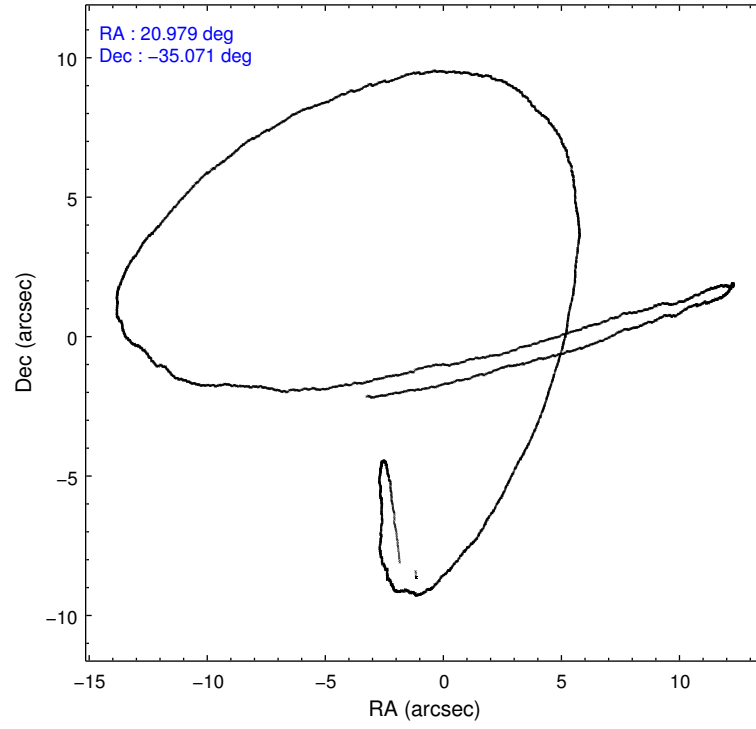
	ccd 7
level 1 events	270
rejected events	101
rejected %	37%

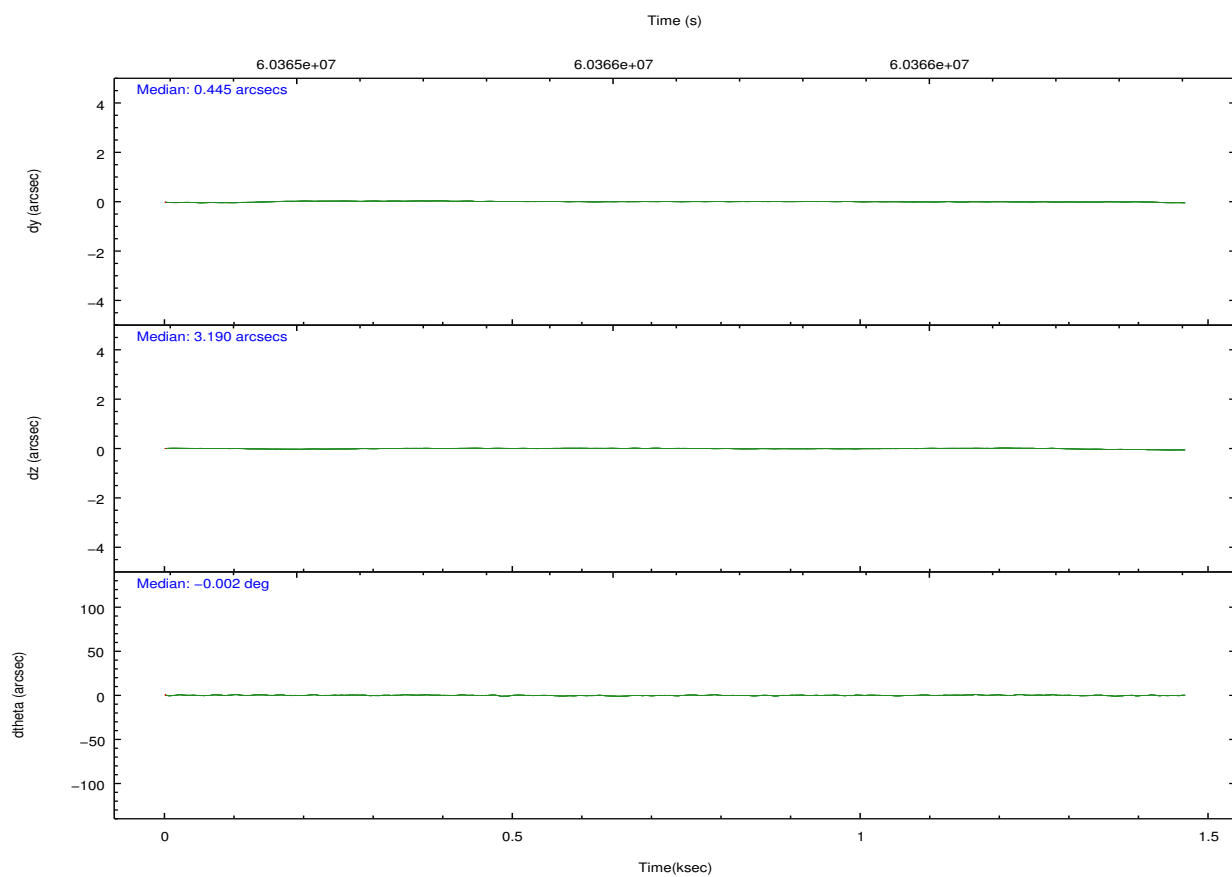
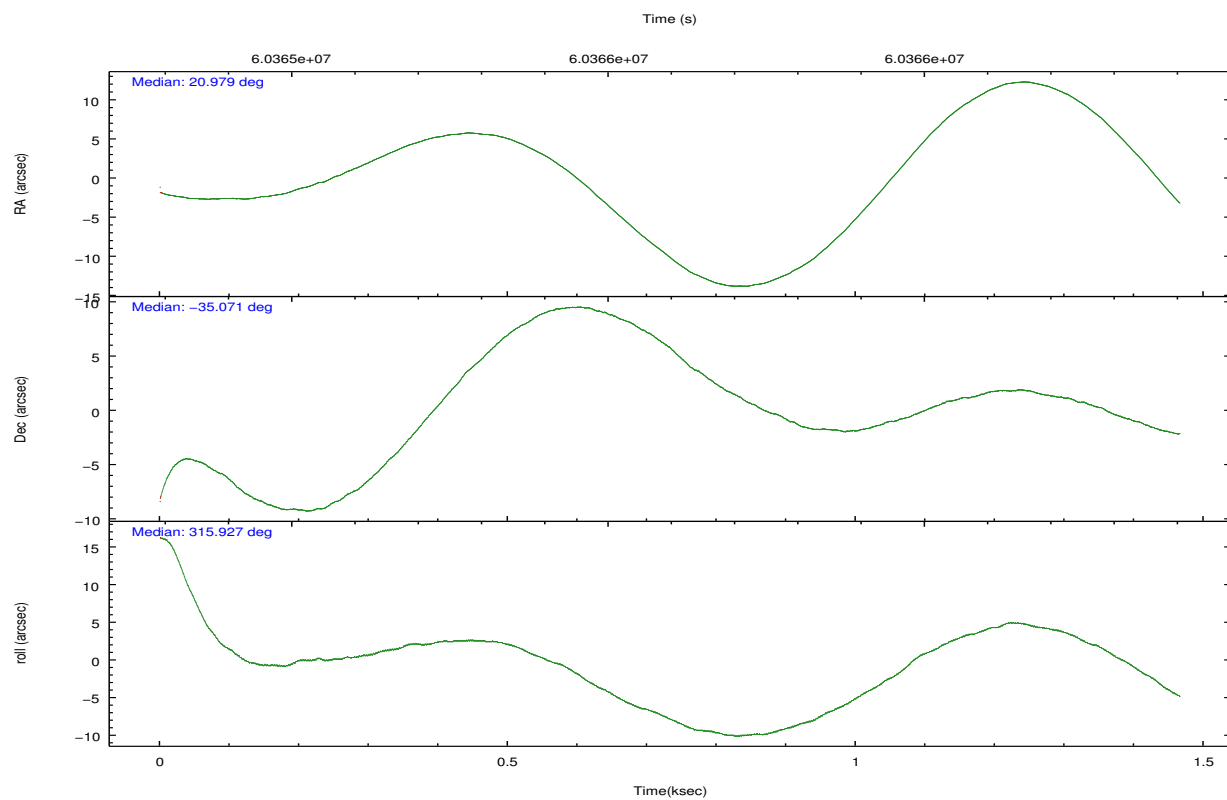
	ccd 7
grade 0 events	23
	8%
grade 1 events	1
	0%
grade 2 events	40
	14%
grade 3 events	28
	10%
grade 4 events	19
	7%
grade 5 events	14
	5%
grade 6 events	59
	21%
grade 7 events	86
	31%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	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	20.946052	20.9791392736309	Subarray requested	CUSTOM	1/8
Pointing Dec	-35.063348	-35.07052428476511	Subarray start row	447	447
Pointing Roll	315.755983	315.9317681938469	Subarray row count	128	128
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	Y	Y
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.100000	0.1
SIM translation stage pos (mm)	-190.132523	-190.1400660498719	Secondary exposure time	0.400000	0.4
SIM translation stage offset (mm)	0	0.00754346686406393	Duty cycle	2	2
Observation start time	60365332.184000	60364128.724841			
Observation start date	1999-11-30T16:07:48	1999-11-30T15:48:48			
Observation end time	60366332.184000	60367117.112449			
Observation end date	1999-11-30T16:24:28	1999-11-30T16:38:37			
Read mode	TIMED	TIMED			

2.3 Aspect



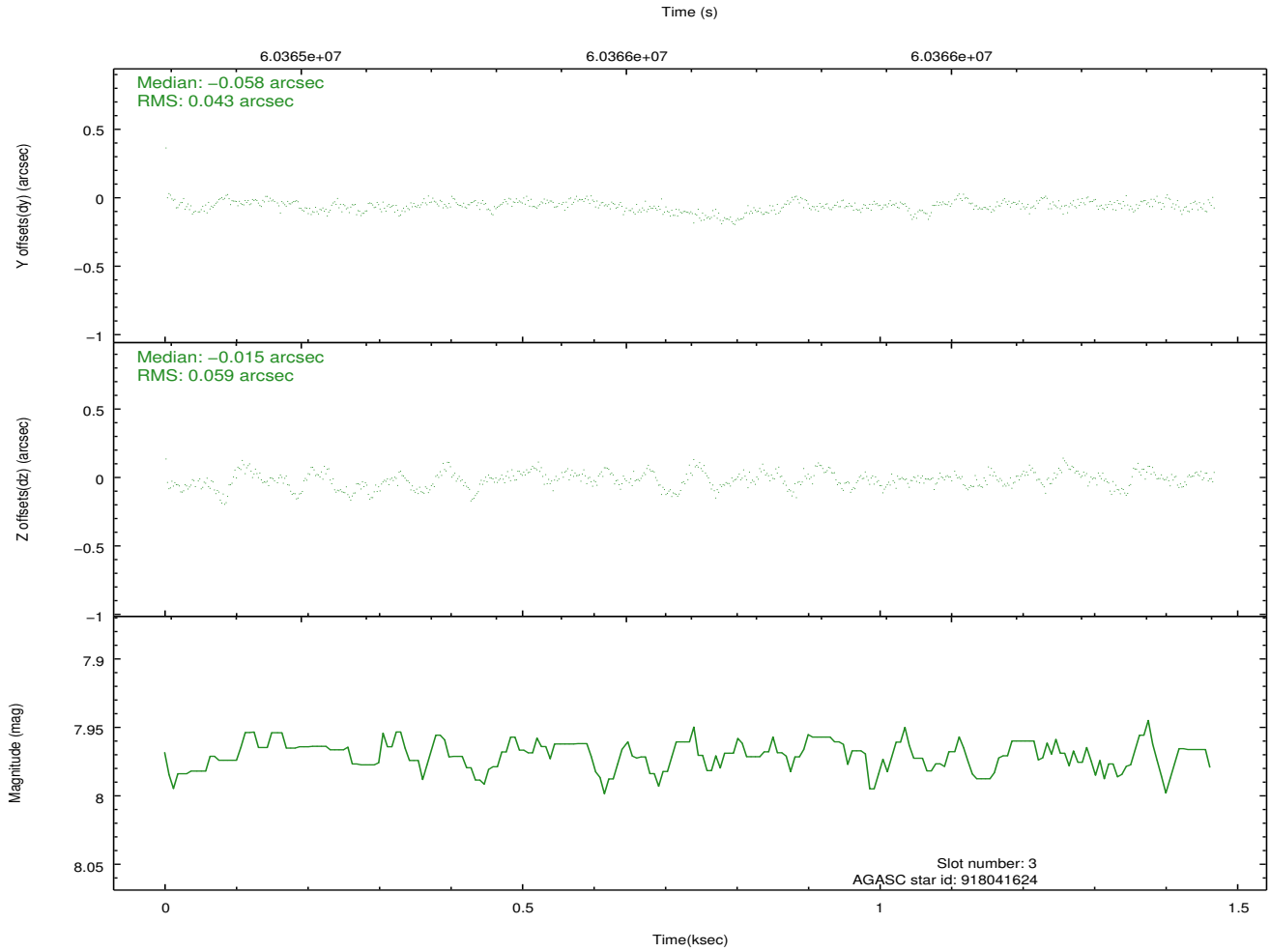
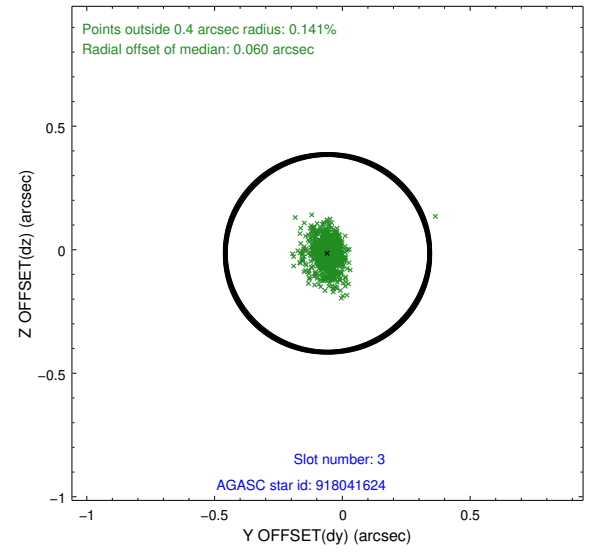
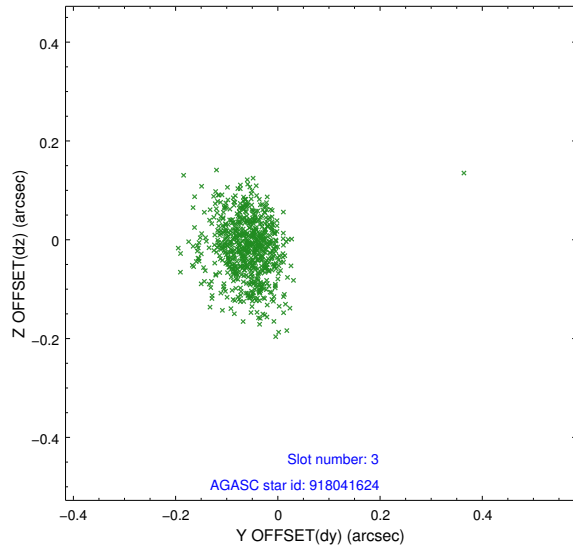


Slot Statistics

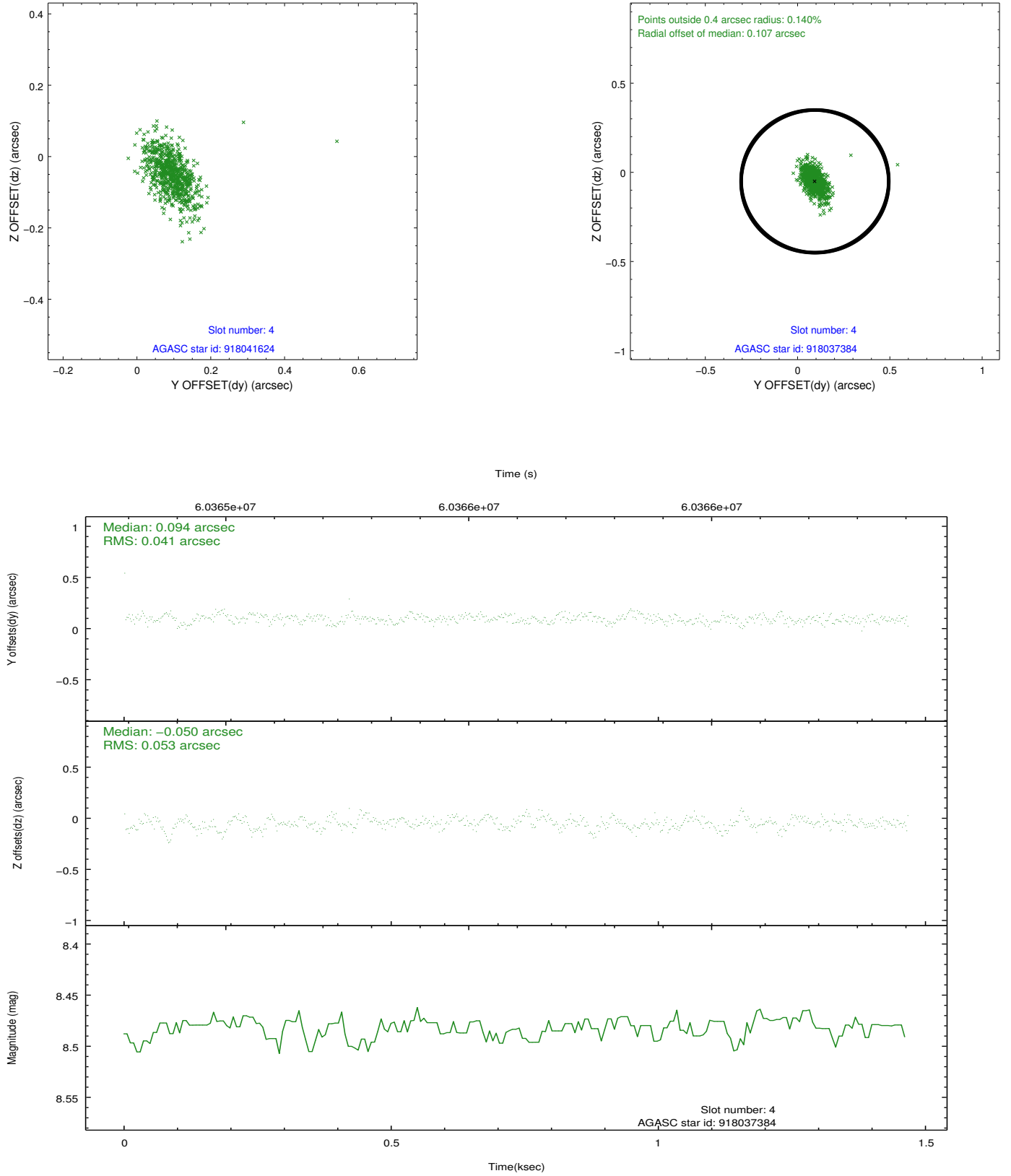
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	715	-0.001	-0.017	0.006	0.010	0.000000	0.000000	-753.08	-1724.24
1	FID	ACIS-S-4	7.21	712	0.044	0.005	0.006	0.012	0.000000	0.000000	2159.32	181.91
2	FID	ACIS-S-5	7.24	712	-0.074	0.021	0.007	0.012	0.000000	0.000000	-1803.10	178.23
3	GUIDE	918041624	7.97	711	-0.058	-0.015	0.074	0.126	20.656436	-34.992038	-792.75	-413.23
4	GUIDE	918037384	8.48	714	0.094	-0.050	0.066	0.122	20.982960	-35.723099	1731.03	-1626.95
5	GUIDE	918041544	10.05	713	-0.033	0.061	0.113	0.191	20.868409	-34.646803	-1211.20	911.20
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

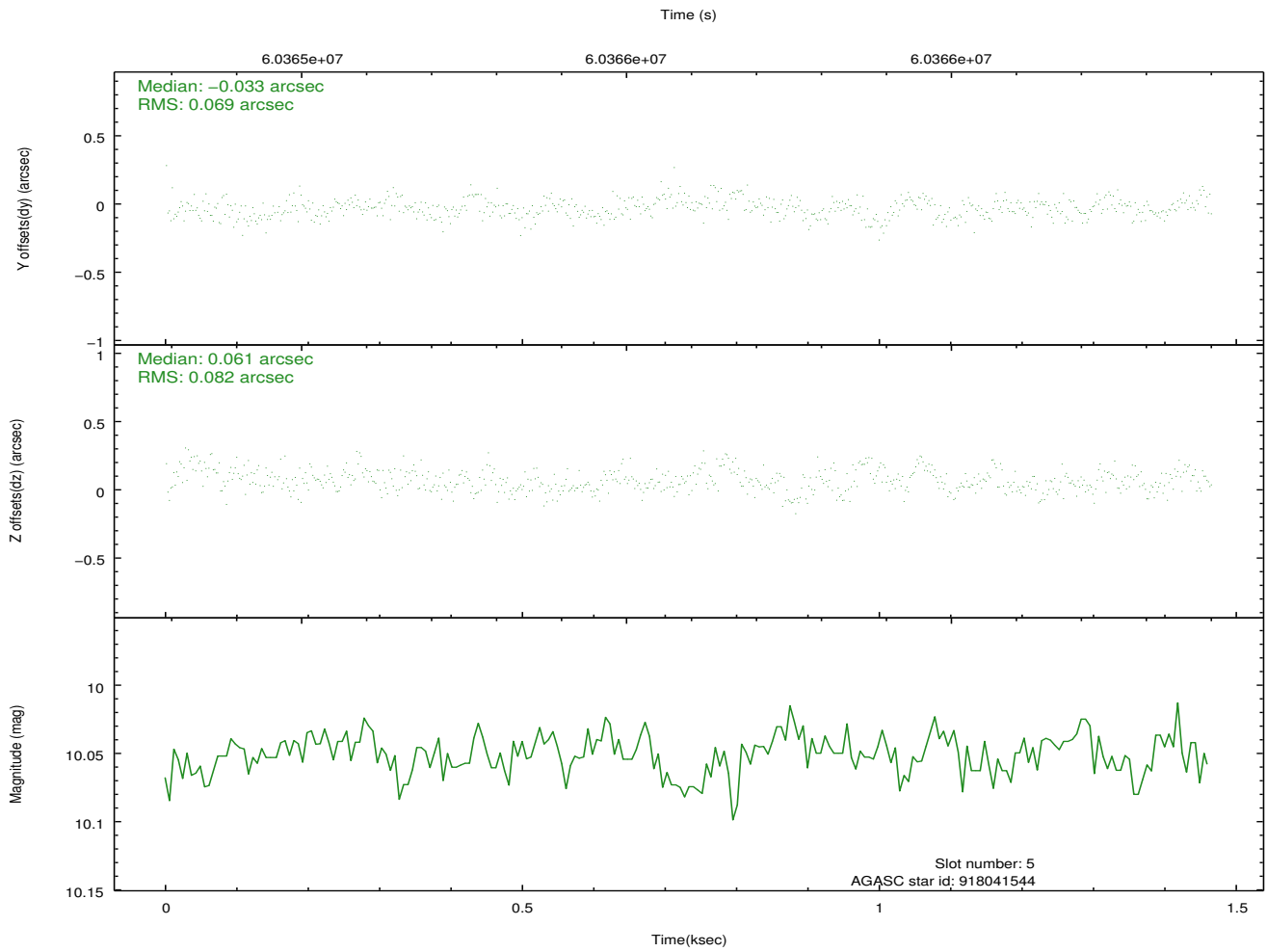
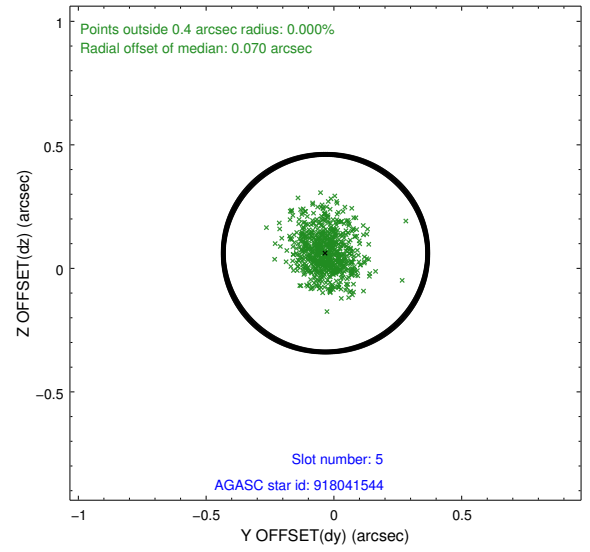
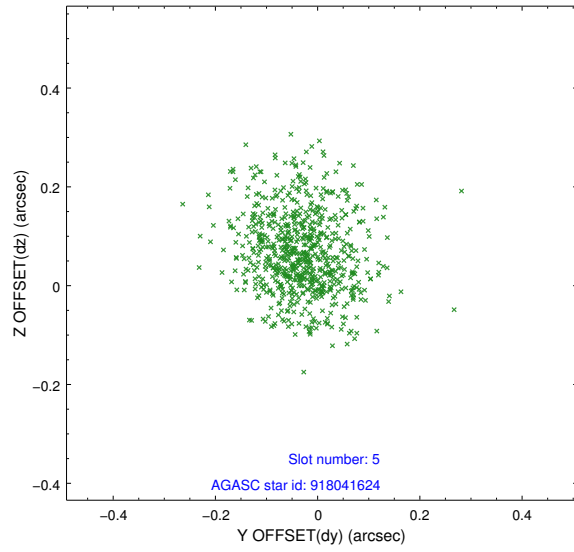
2.4.1 Slot 3



2.4.2 Slot 4

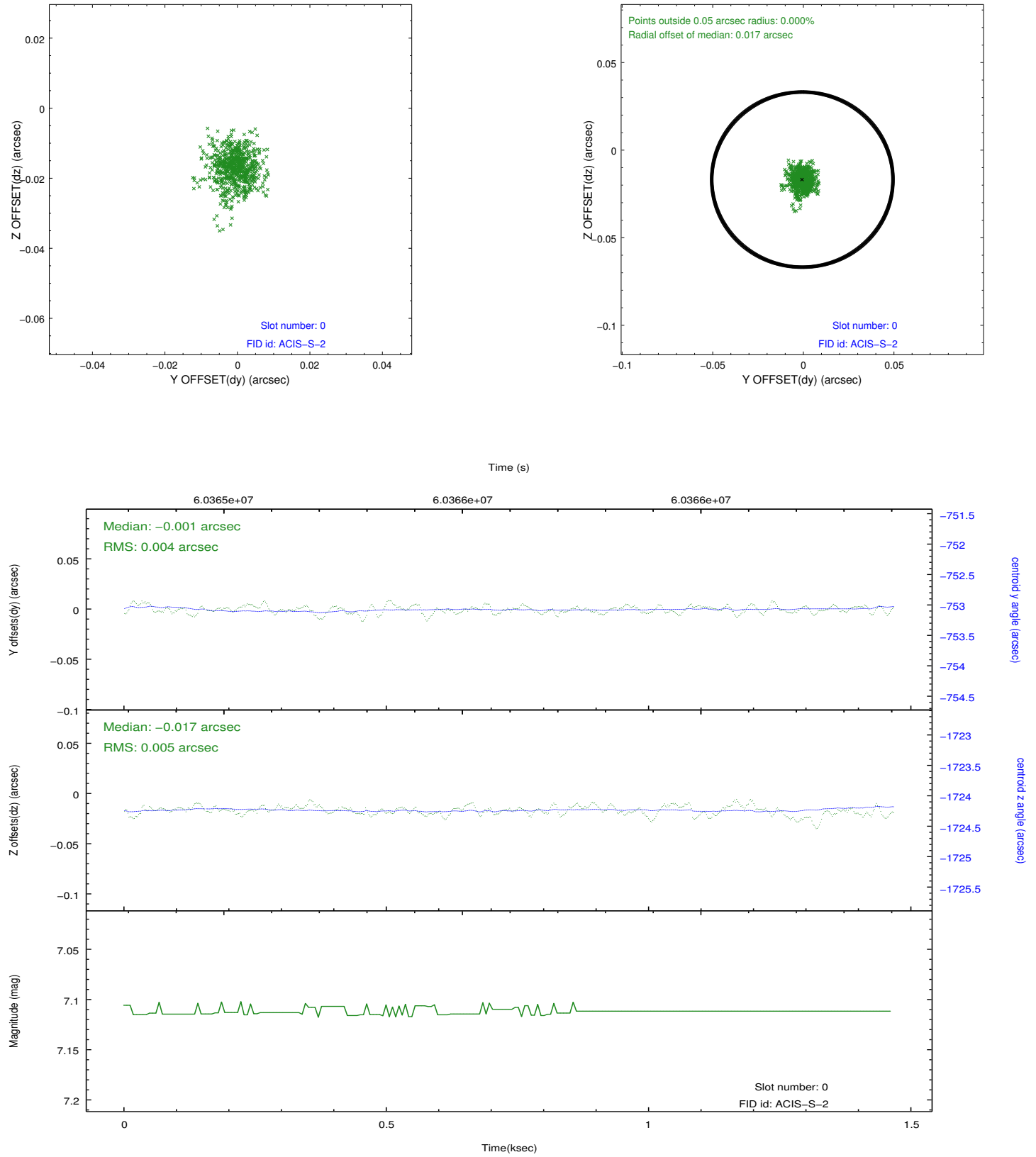


2.4.3 Slot 5

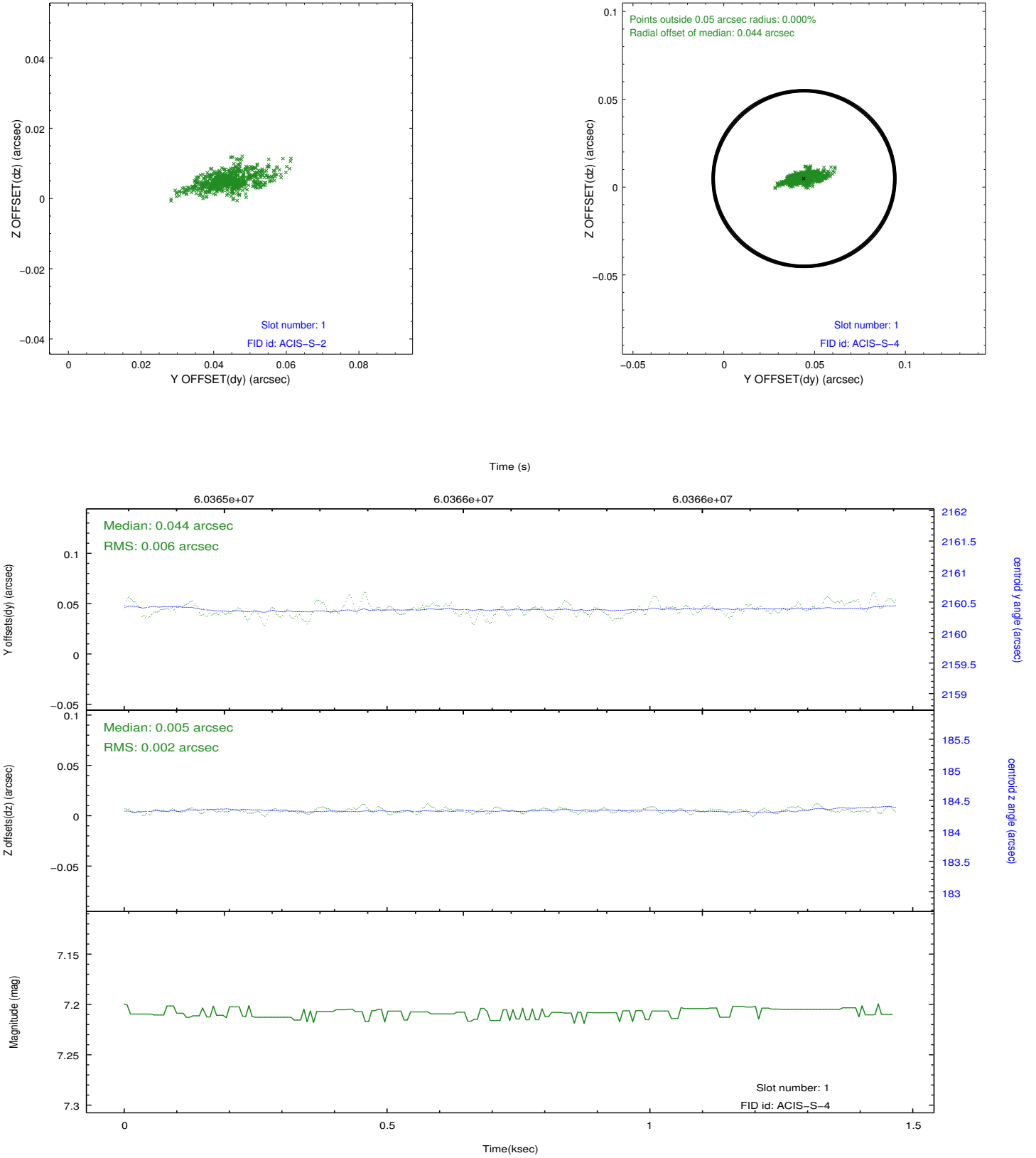


2.5 FID Slots

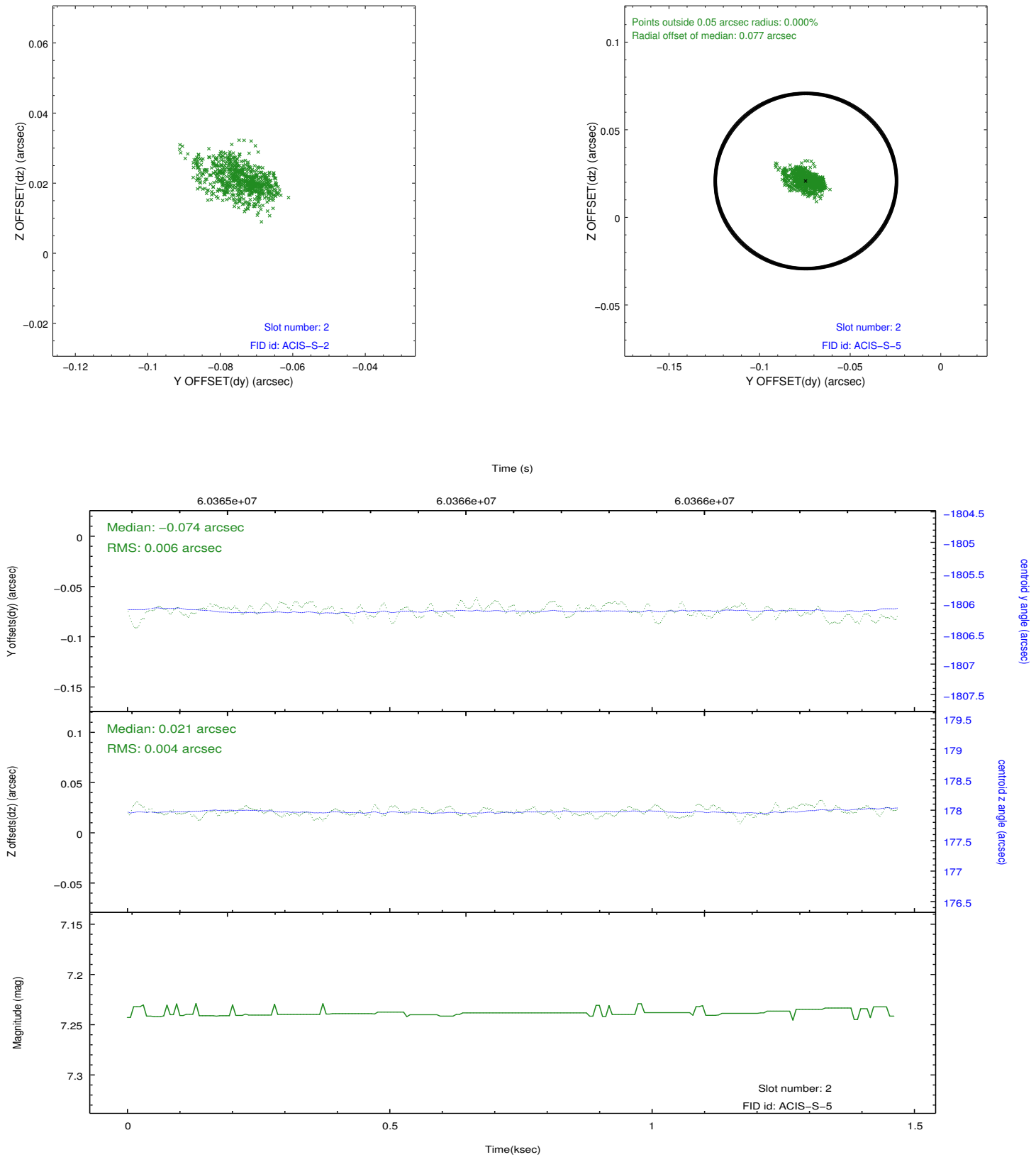
2.5.1 Slot 0



2.5.2 Slot 1



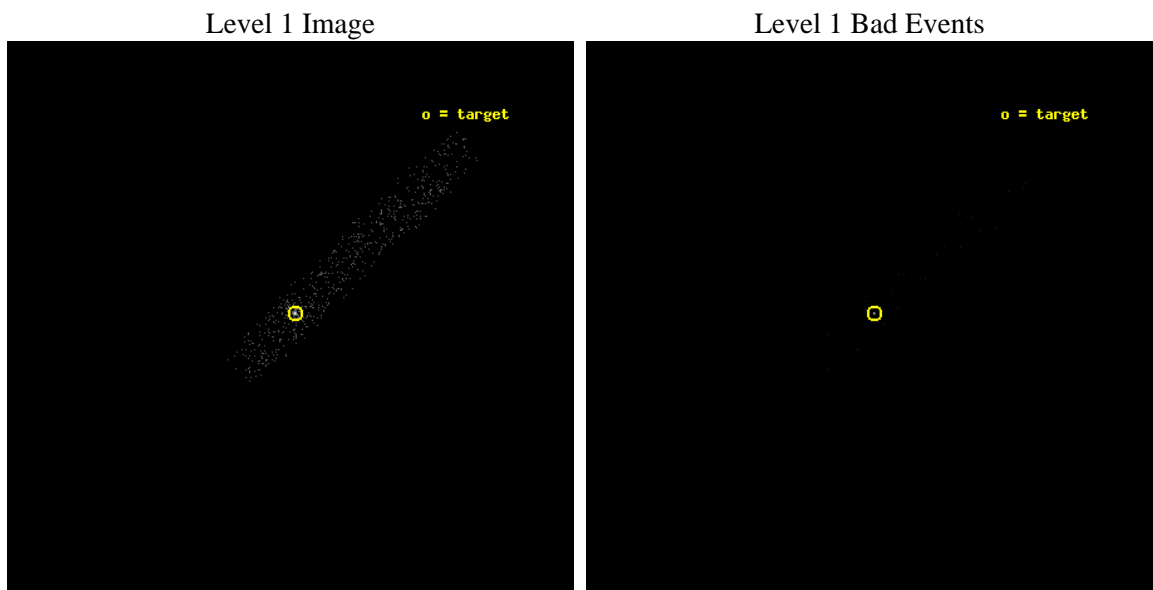
2.5.3 Slot 2



3 OBI Secondary

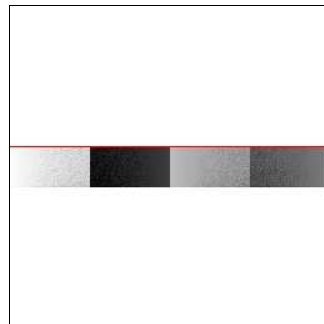
3.1 OBI

3.1.1 Images



3.1.2 Bias

Chip 7



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	511.52914527059	Sum of GTIs [s]
caldbver	4.1.4	 	ontime7	511.52914527059	Sum of GTIs [s]
date	2009-11-25T08:09:29	Date and time of file creation	l1events	1502	Number of level 1 events
revision	4	Processing version of data			

3.1.4 Events

	ccd 7
level 1 events	1502
rejected events	485
rejected %	32%

	ccd 7
grade 0 events	136
	9%
grade 1 events	3
	0%
grade 2 events	244
	16%
grade 3 events	120
	7%
grade 4 events	117
	7%
grade 5 events	72
	4%
grade 6 events	404
	26%
grade 7 events	406
	27%

4 Point Sources

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.843

A.2 Comments

The guide stars in slots 6 and 7 were not acquired for this observation.

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The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.