

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 409 - L2 Version 4

Chandra X-Ray Center

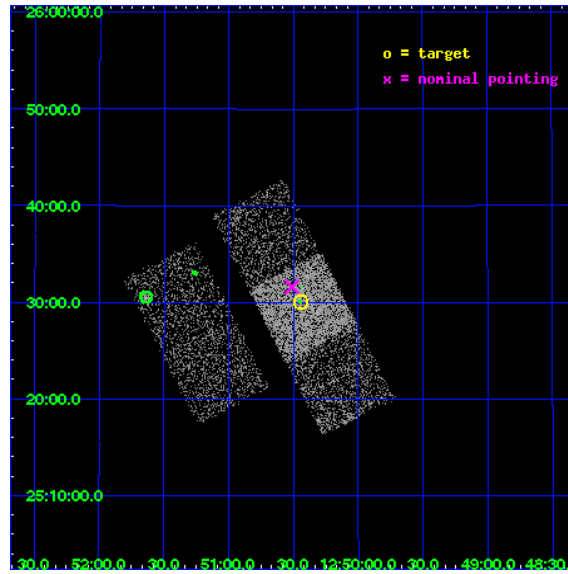
L2 Processing Date : Nov 26 2009

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1 Front

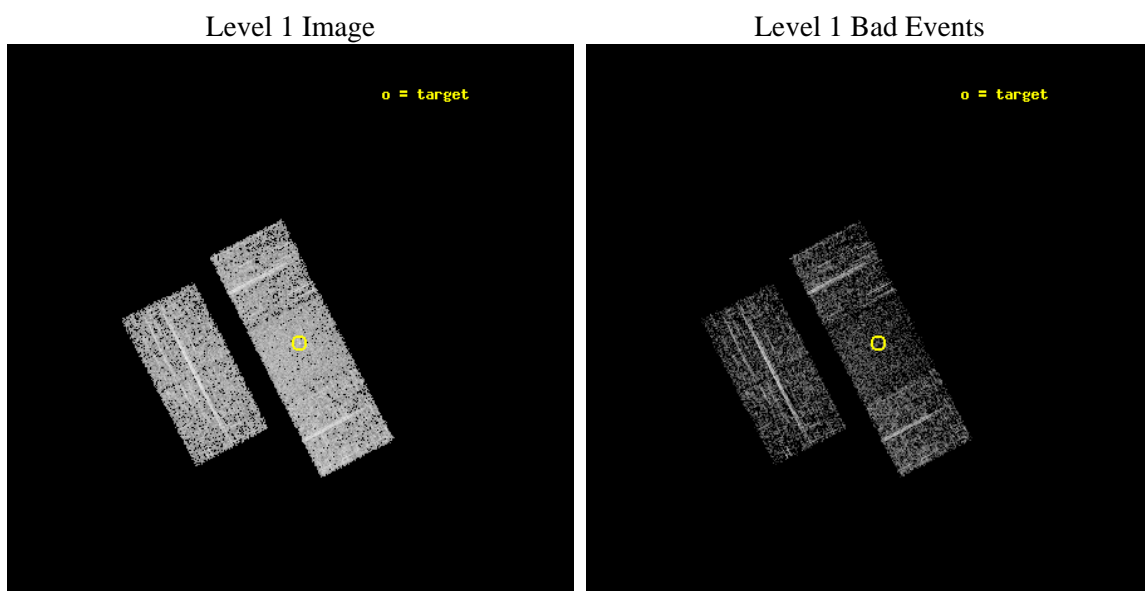
seq_num	700081	Sequence number
obs_id	409	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Prof Gordon Garmire	Principal investigator
object	NGC 4725	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	192.610833	Observer's specified target RA
dec_targ	25.501667	Observer's specified target Dec
ra_nom	192.62802598168	Nominal RA
dec_nom	25.527188518657	Nominal Dec
roll_nom	62.81779032826	Nominal Roll
revision	4	Processing version of data
ontime	1774.6857969388	Sum of GTIs [s]
livetime	1752.2136567905	Livetime [s]
ontime2	1774.6447569355	Sum of GTIs [s]
ontime3	1774.5626769364	Sum of GTIs [s]
ontime6	1774.6037169397	Sum of GTIs [s]
ontime7	1774.6857969388	Sum of GTIs [s]
ontime8	1774.5215372369	Sum of GTIs [s]
l2events	11961	Number of level 2 events



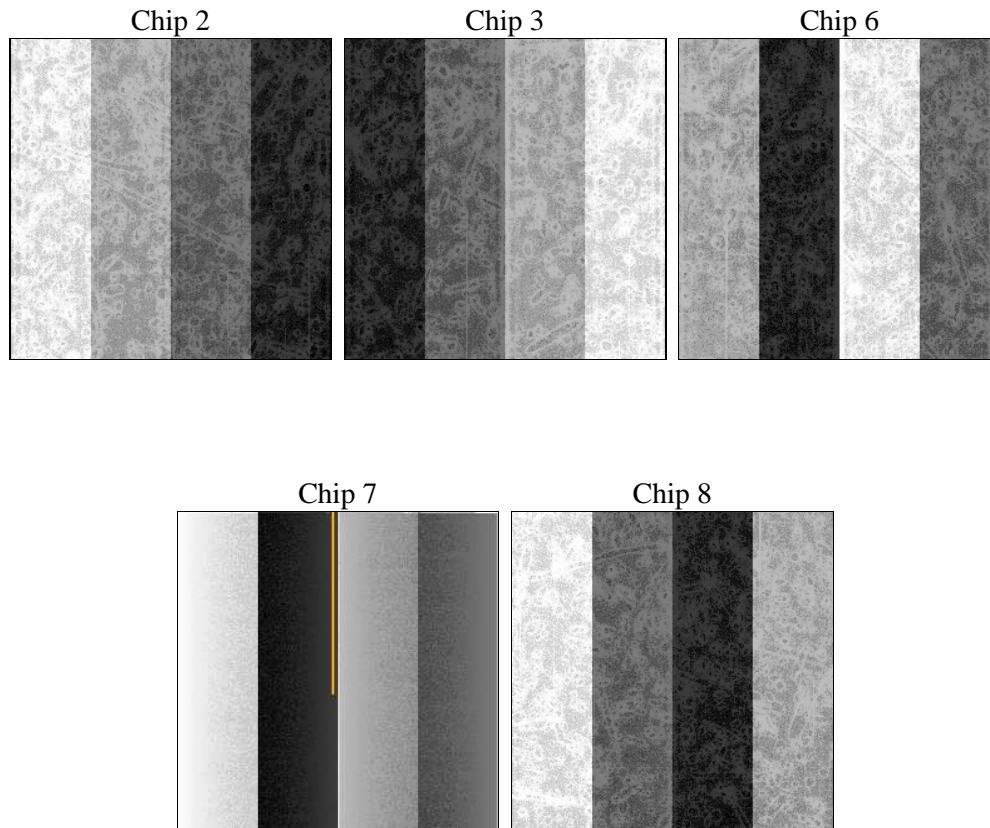
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	1774.6857969388	Sum of GTIs [s]
caldsver	4.1.4	 	ontime2	1774.6447569355	Sum of GTIs [s]
date	2009-11-26T06:58:47	Date and time of file creation	ontime3	1774.5626769364	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1774.6037169397	Sum of GTIs [s]
			ontime7	1774.6857969388	Sum of GTIs [s]
			ontime8	1774.5215372369	Sum of GTIs [s]
			l1events	83175	Number of level 1 events

2.1.4 Events

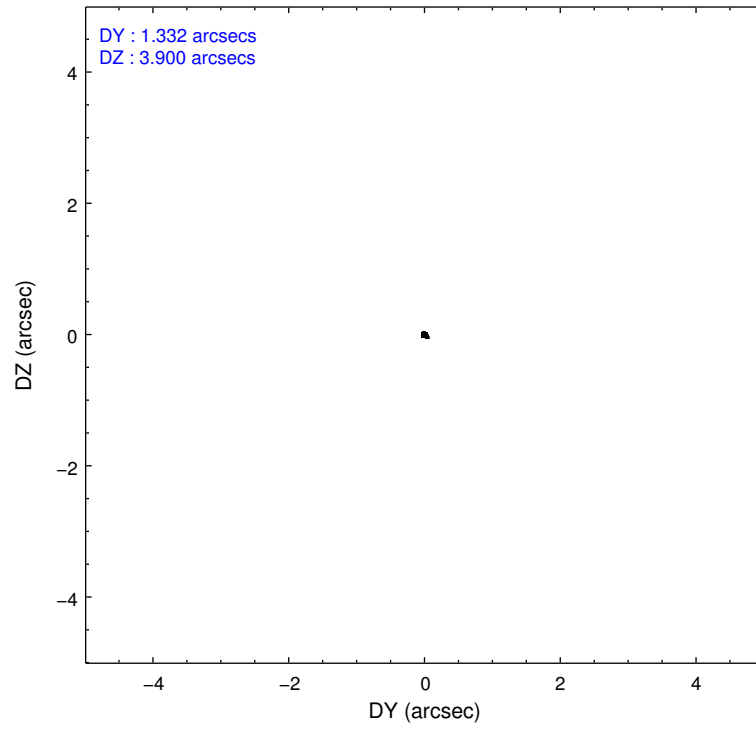
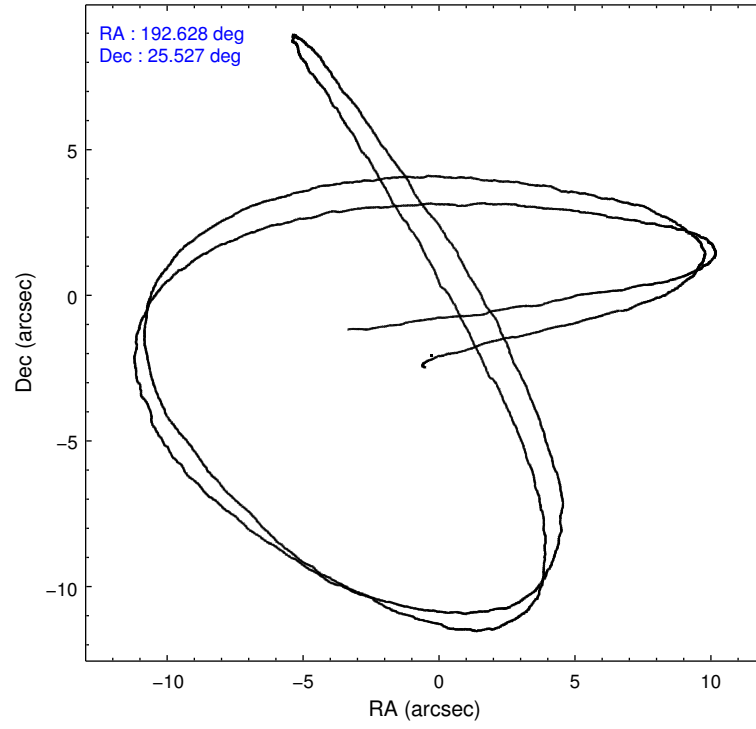
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	15637	15592	15503	16344	20099
rejected events	14213	14153	14042	9897	17085
rejected %	90%	90%	90%	60%	85%

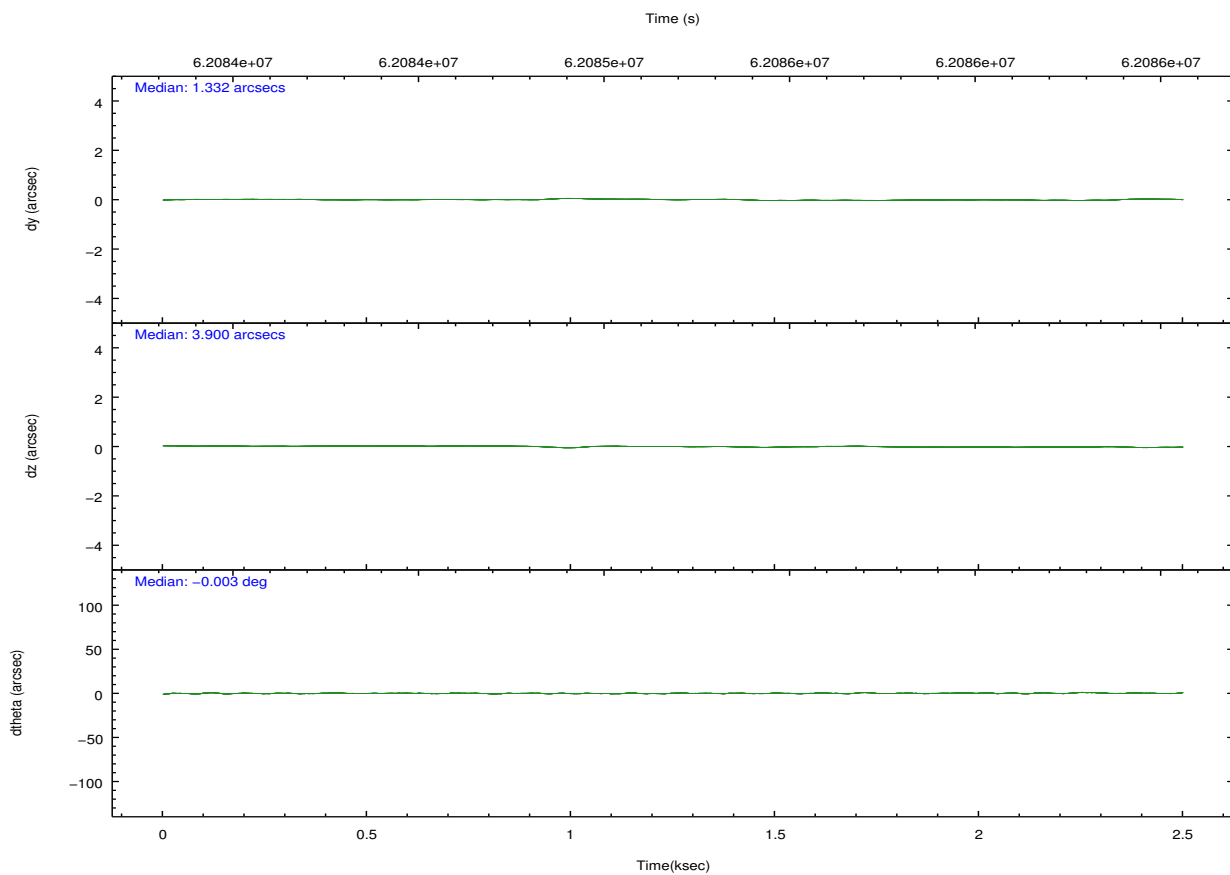
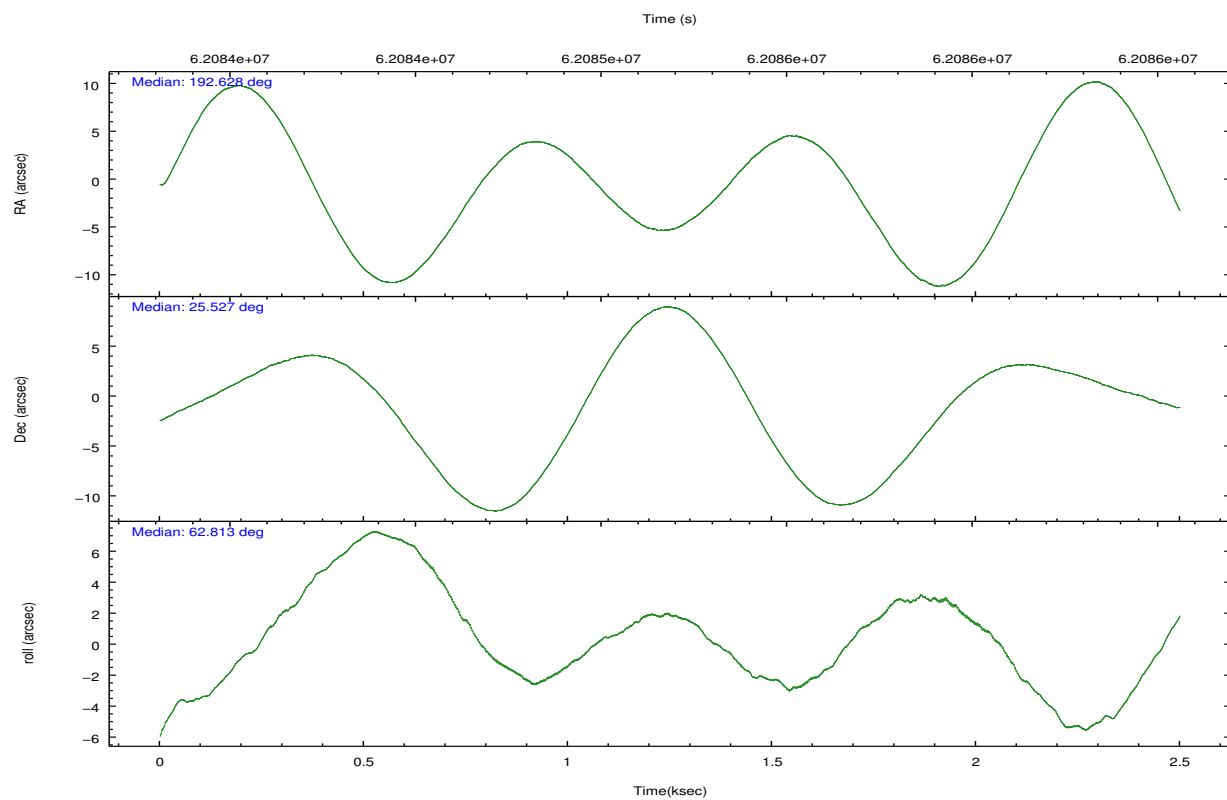
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	378	314	323	528	643
	2%	2%	2%	3%	3%
grade 1 events	2	6	3	5	6
	0%	0%	0%	0%	0%
grade 2 events	535	612	542	1372	1010
	3%	3%	3%	8%	5%
grade 3 events	95	96	98	386	228
	0%	0%	0%	2%	1%
grade 4 events	87	70	91	357	197
	0%	0%	0%	2%	0%
grade 5 events	239	287	301	930	420
	1%	1%	1%	5%	2%
grade 6 events	331	349	413	3815	943
	2%	2%	2%	23%	4%
grade 7 events	13970	13858	13732	8951	16652
	89%	88%	88%	54%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	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	192.629132	192.6280259816778	Subarray requested	NONE	NONE
Pointing Dec	25.499502	25.52718851865725	Alternating exposures requested	N	N
Pointing Roll	62.660702	62.81779032826012	Primary exposure time	0.000000	3.2
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	62084437.184000	62083673.399577			
Observation start date	1999-12-20T13:39:33	1999-12-20T13:27:53			
Observation end time	62086437.184000	62087030.274698			
Observation end date	1999-12-20T14:12:53	1999-12-20T14:23:50			
Read mode	TIMED	TIMED			

2.3 Aspect



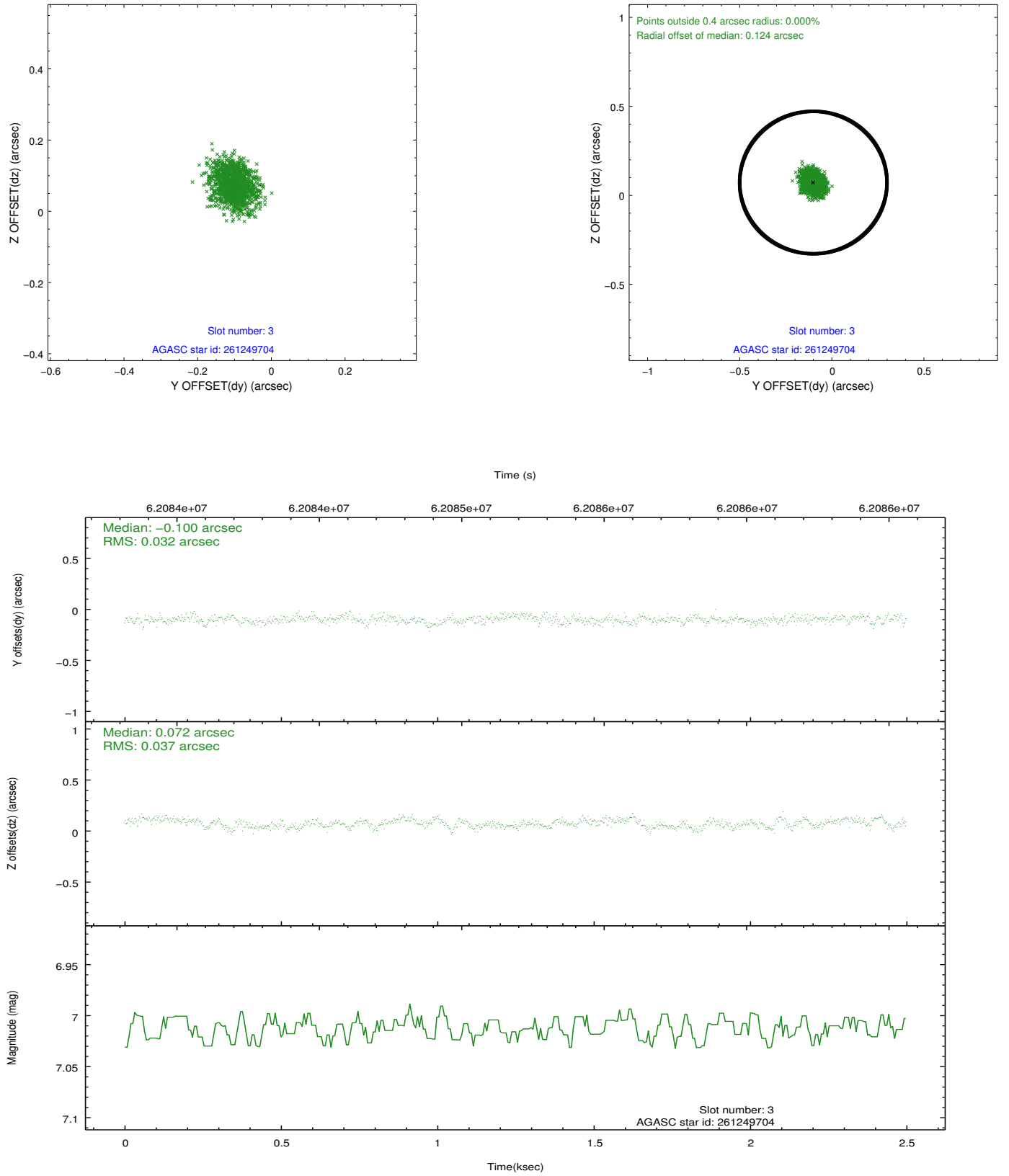


Slot Statistics

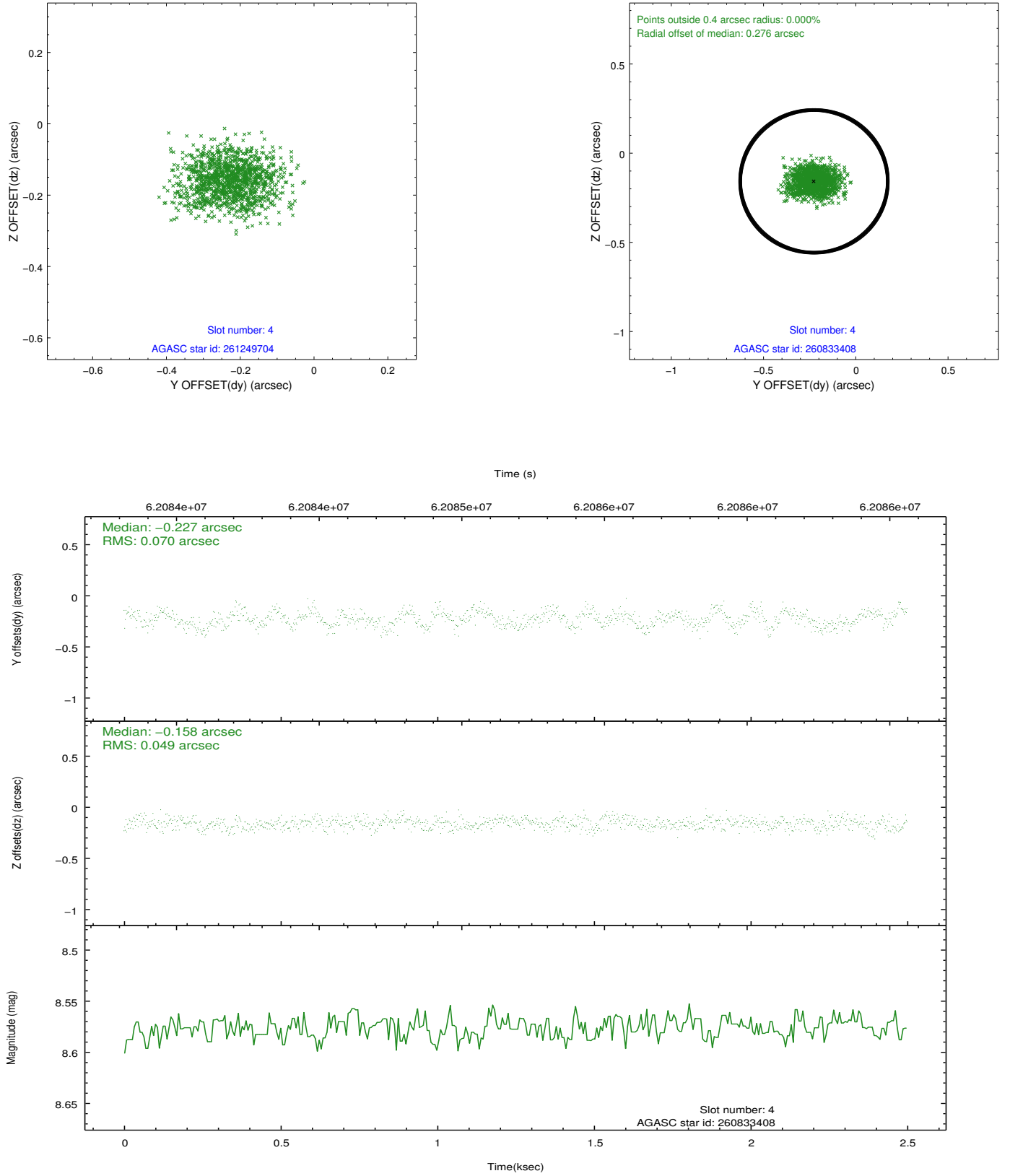
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.13	1220	-0.006	-0.061	0.006	0.010	0.000000	0.000000	-753.97	-1725.02
1	FID	ACIS-S-4	7.22	1220	0.012	0.019	0.005	0.008	0.000000	0.000000	2158.82	182.23
2	FID	ACIS-S-5	7.26	1220	-0.038	0.051	0.005	0.008	0.000000	0.000000	-1805.23	177.40
3	GUIDE	261249704	7.01	1220	-0.100	0.072	0.052	0.084	192.975163	25.674833	1076.48	-705.51
4	GUIDE	260833408	8.58	1220	-0.227	-0.158	0.091	0.147	192.386444	26.221912	1950.32	1891.54
5	GUIDE	261229144	8.96	1138	0.022	0.078	0.098	0.157	193.048396	25.373494	226.24	-1416.24
6	GUIDE	260837560	9.46	1219	0.351	-0.096	0.144	0.237	192.074485	25.135976	-1990.02	1006.12
7	GUIDE	261227600	9.48	1220	-0.044	0.101	0.131	0.216	193.009042	25.456631	428.95	-1164.97

2.4 Star Slots

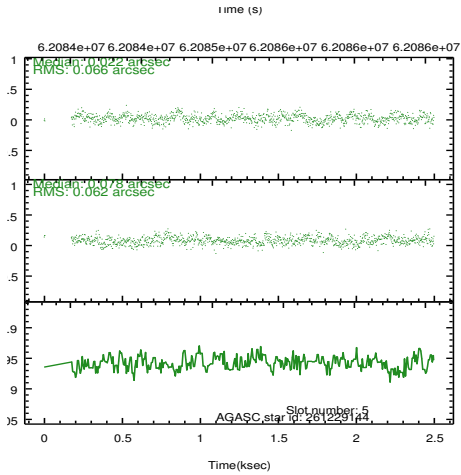
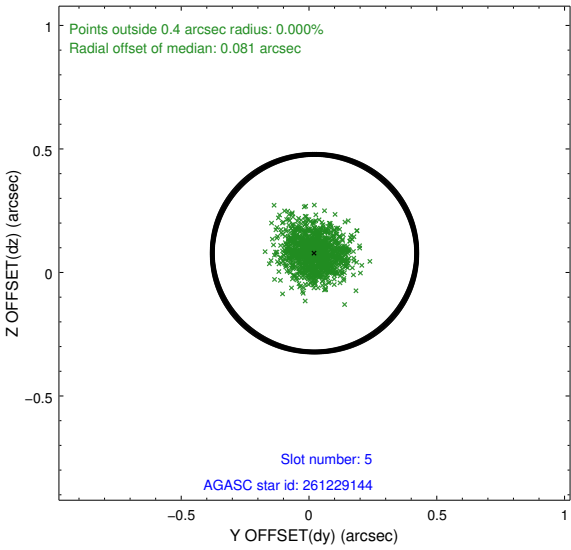
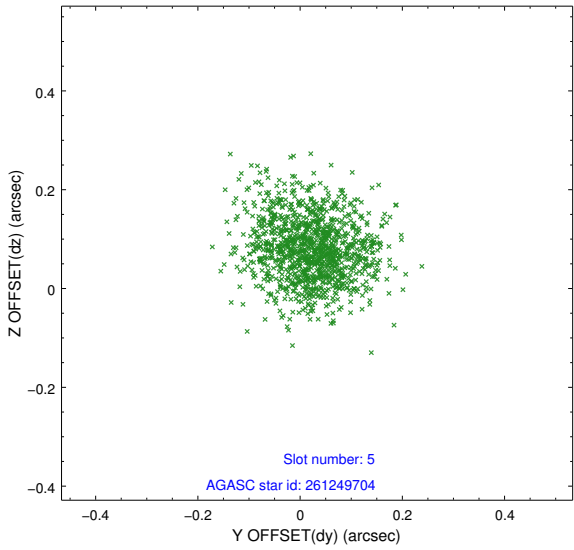
2.4.1 Slot 3



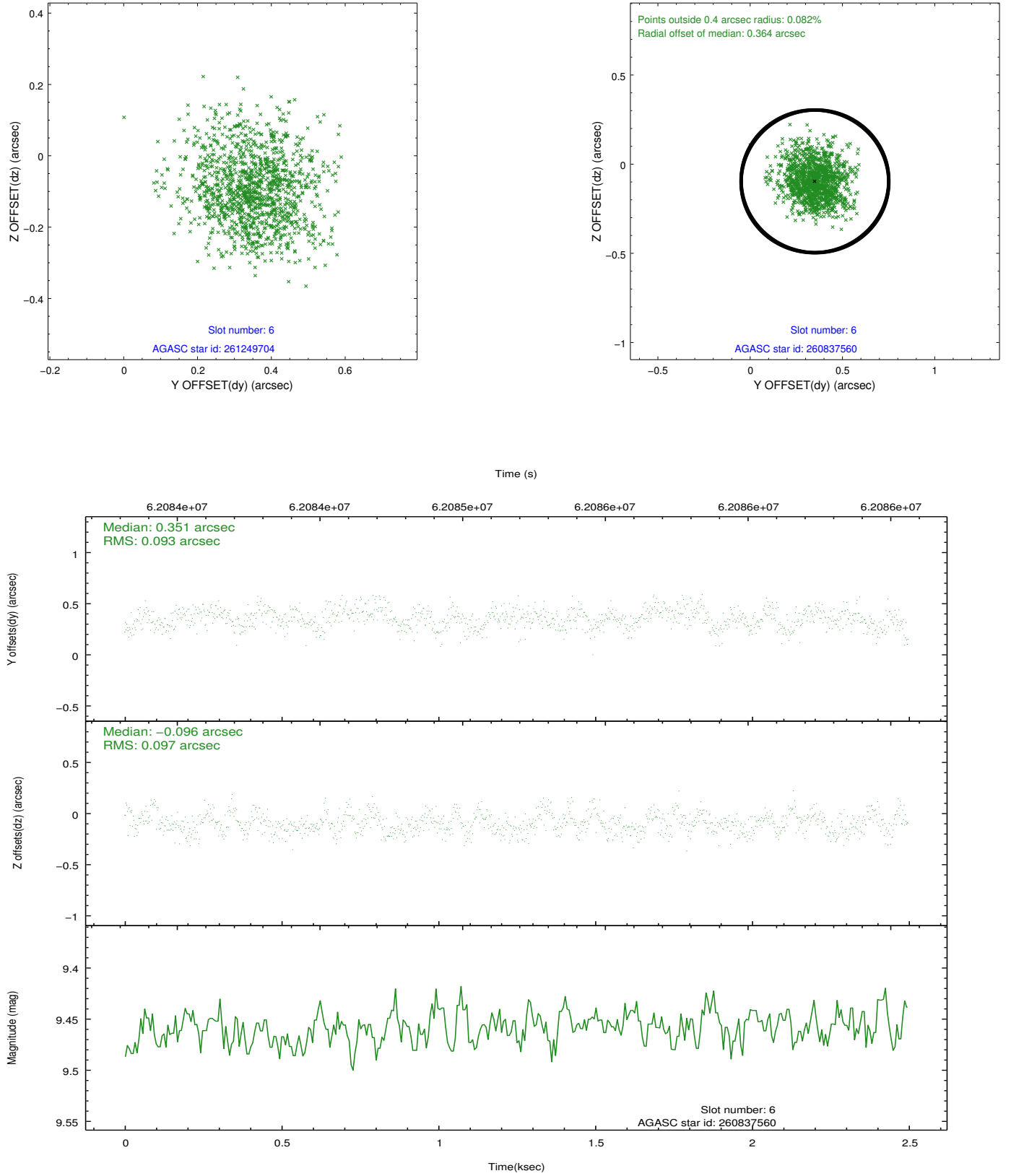
2.4.2 Slot 4



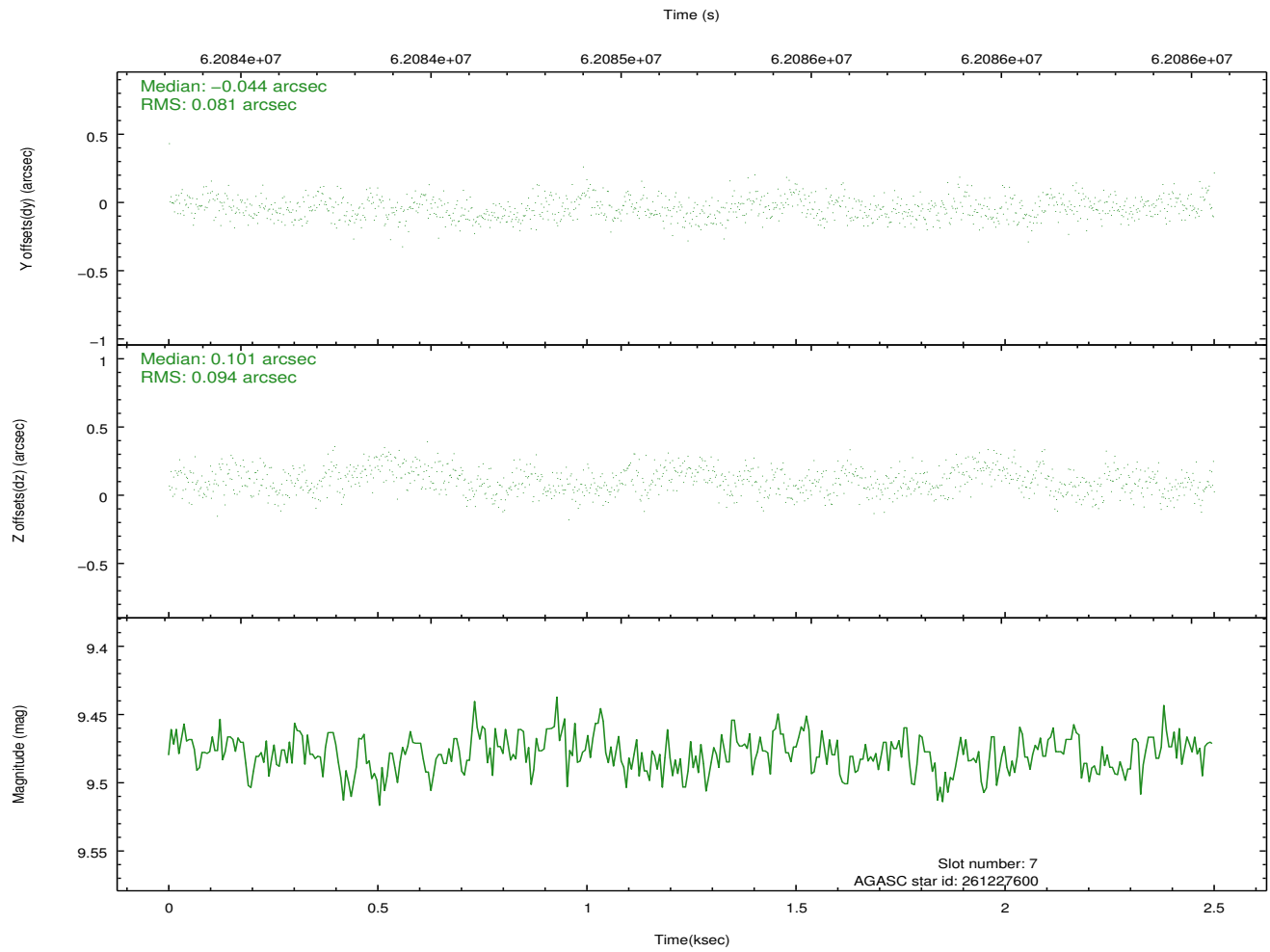
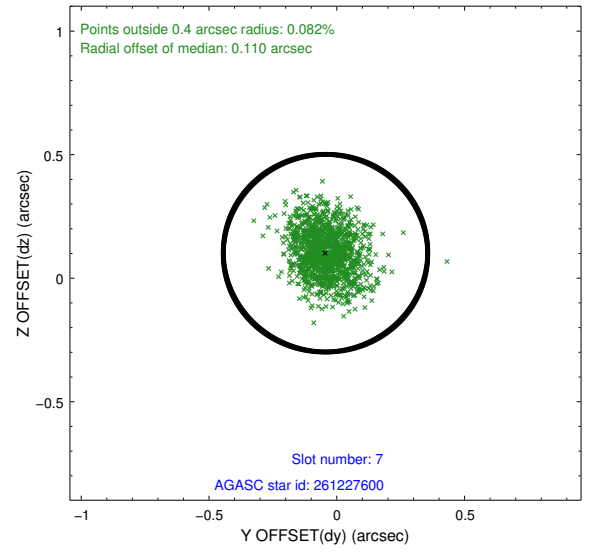
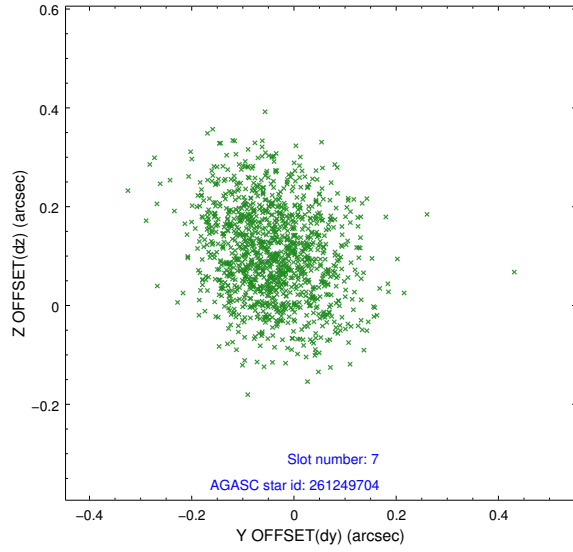
2.4.3 Slot 5



2.4.4 Slot 6

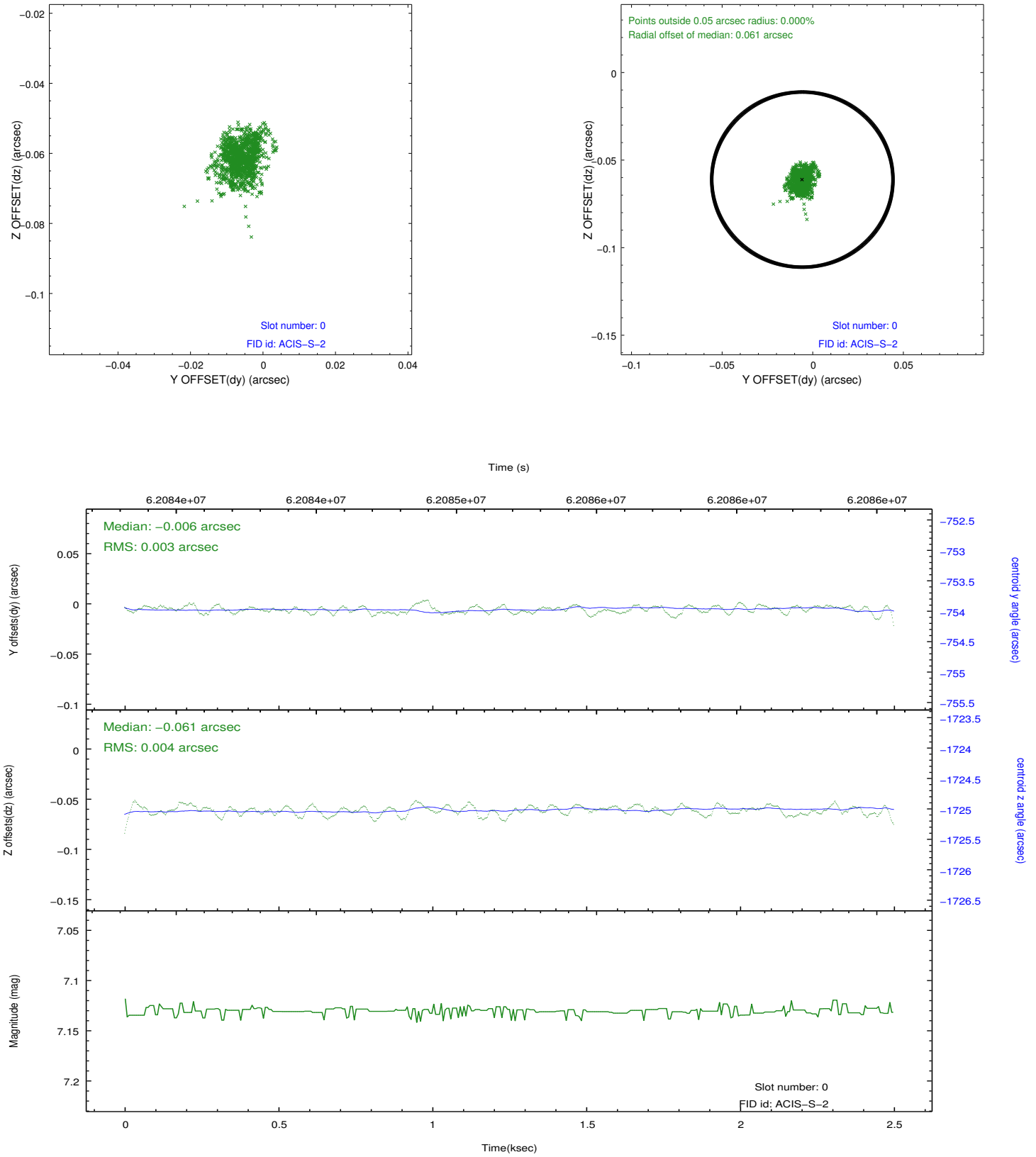


2.4.5 Slot 7

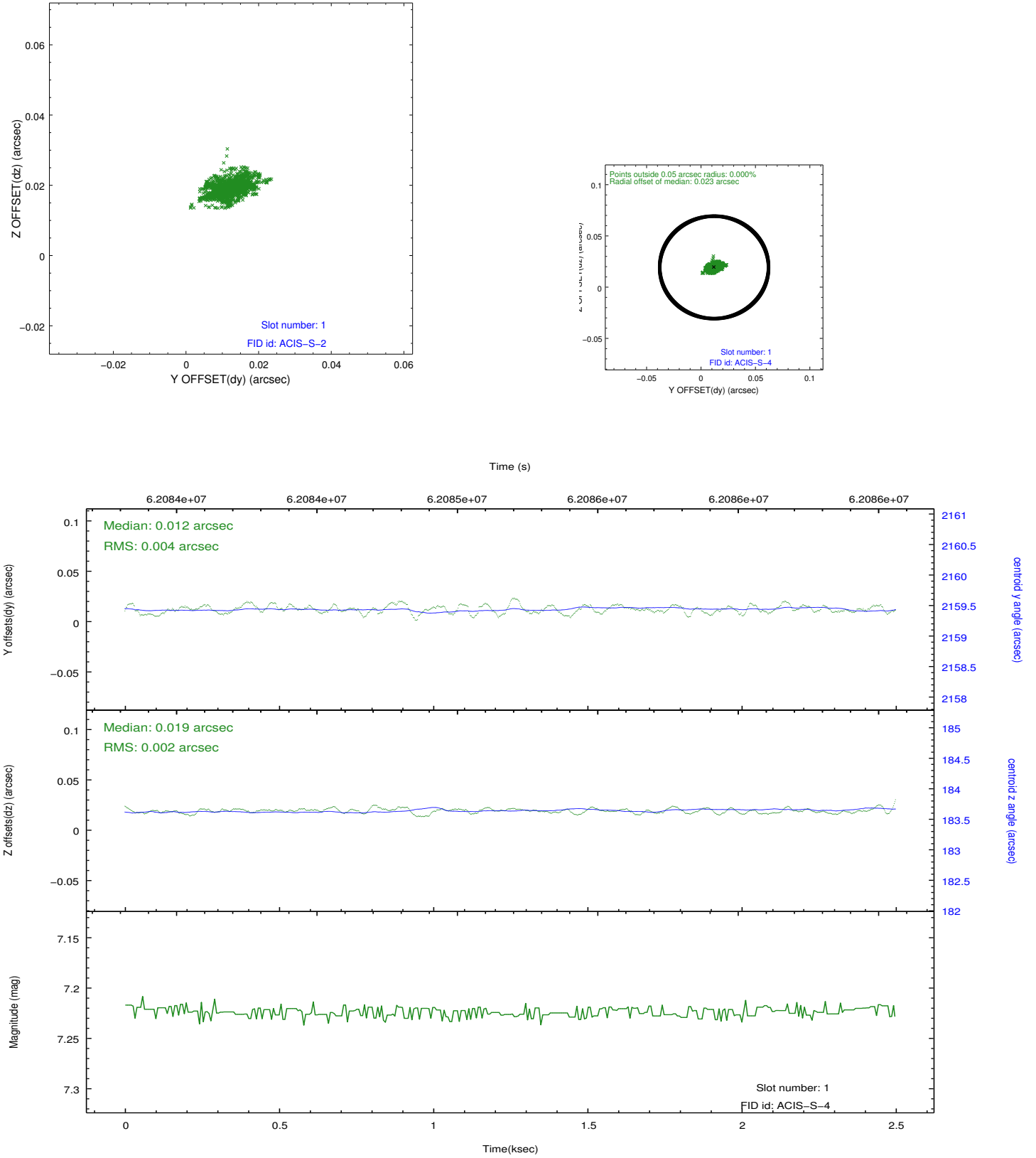


2.5 FID Slots

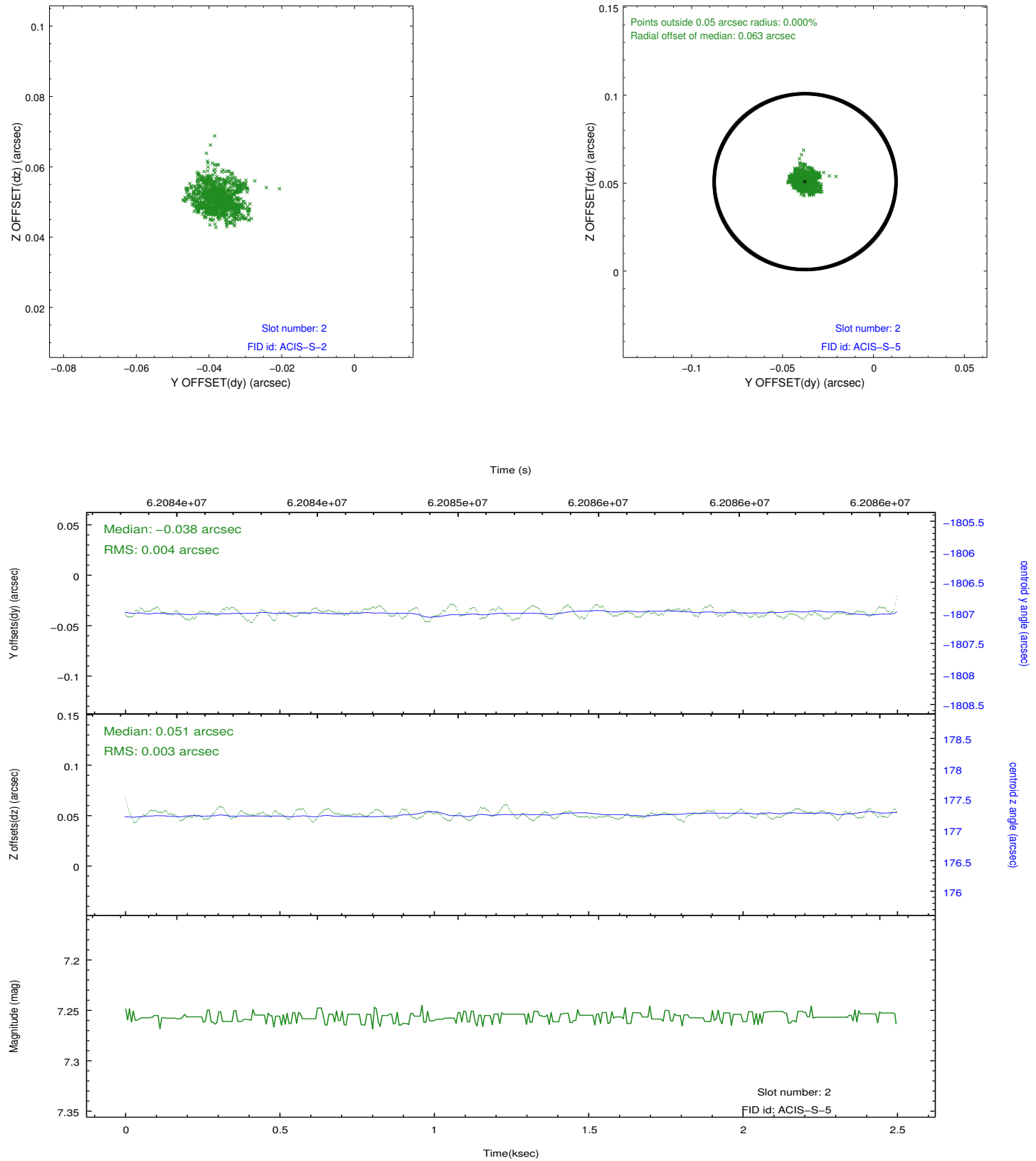
2.5.1 Slot 0



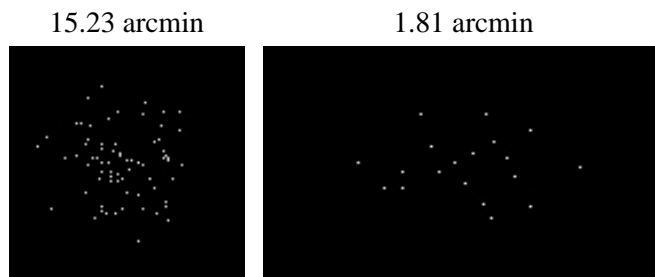
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2009.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.776

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is also warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. 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.