

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1094 - L2 Version 3

Chandra X-Ray Center

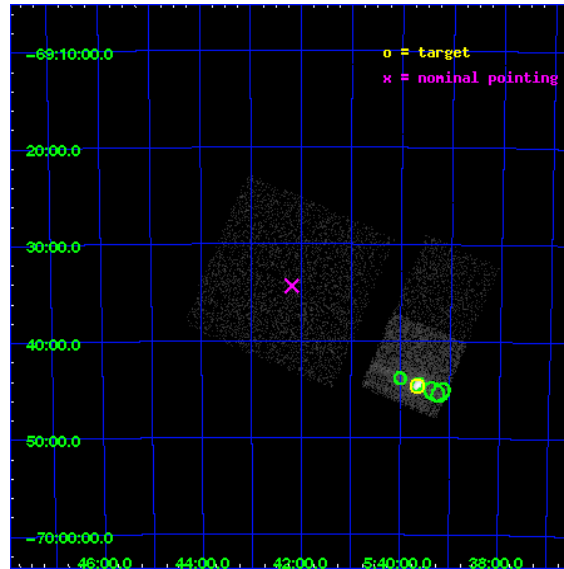
L2 Processing Date : Dec 17 2009

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1 Front

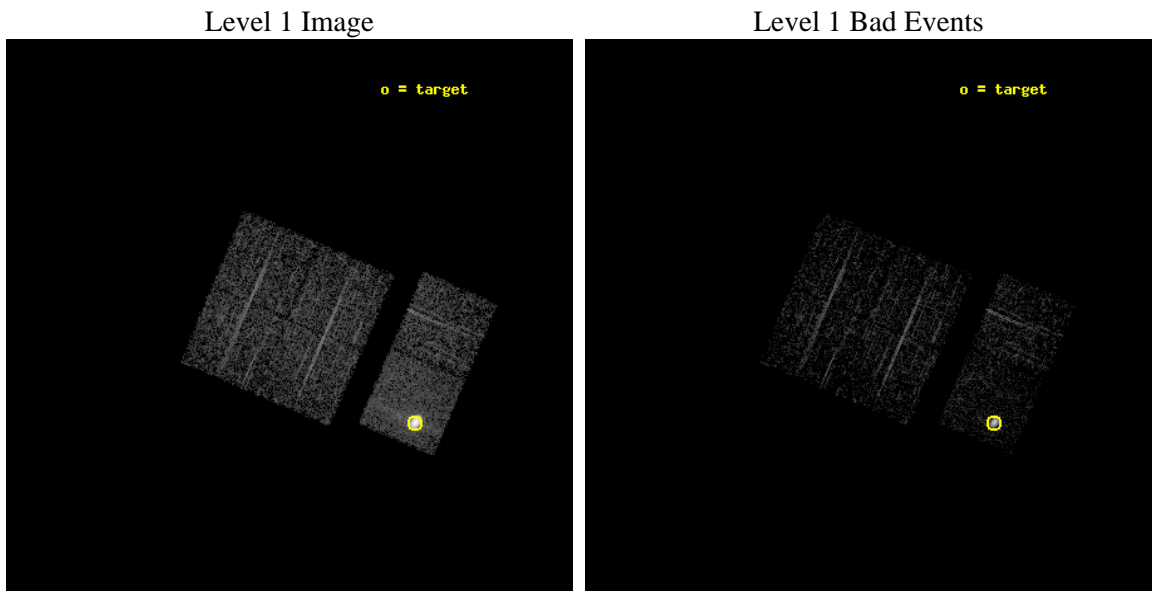
seq_num	480044	Sequence number
obs_id	1094	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	LMC X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.914583	Observer's specified target RA
dec_targ	-69.743611	Observer's specified target Dec
ra_nom	85.546940873656	Nominal RA
dec_nom	-69.572694388069	Nominal Dec
roll_nom	113.36242961183	Nominal Roll
revision	3	Processing version of data
ontime	995.20000092685	Sum of GTIs [s]
livetime	982.59817927762	Livetime [s]
ontime0	995.20000092685	Sum of GTIs [s]
ontime1	995.20000092685	Sum of GTIs [s]
ontime2	995.20000092685	Sum of GTIs [s]
ontime3	995.20000092685	Sum of GTIs [s]
ontime6	995.20000092685	Sum of GTIs [s]
ontime7	995.20000092685	Sum of GTIs [s]
l2events	58045	Number of level 2 events



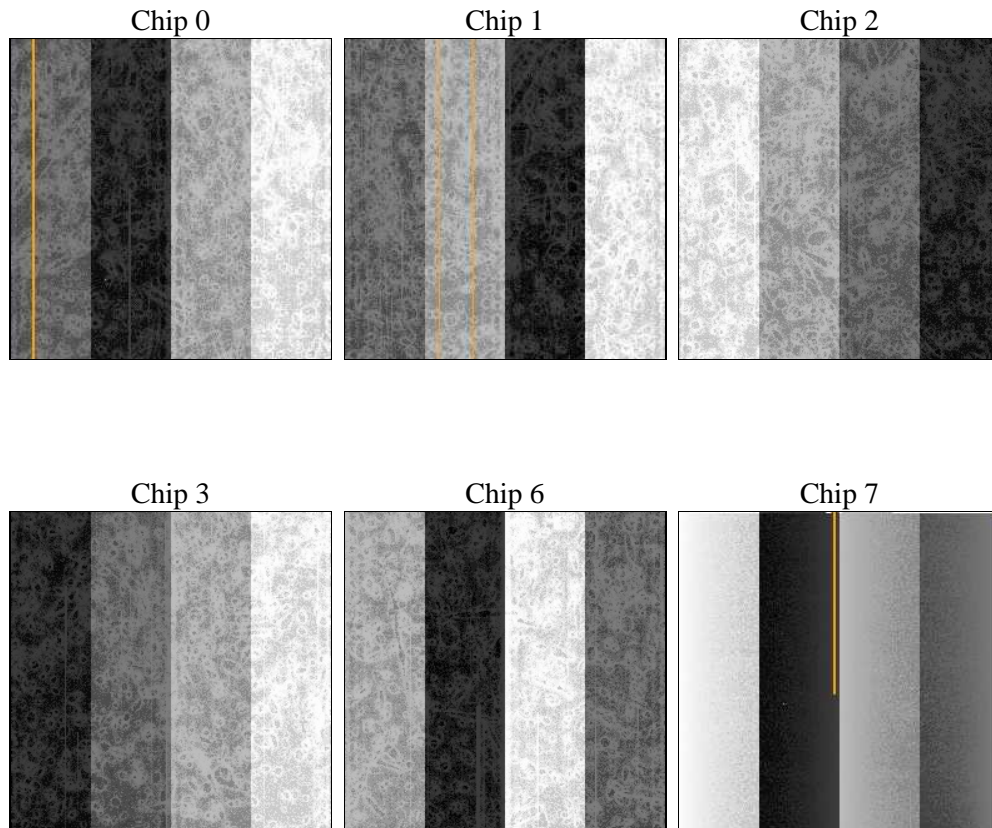
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	995.20000092685	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	995.20000092685	Sum of GTIs [s]
date	2009-12-17T09:08:42	Date and time of file creation	ontime1	995.20000092685	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	995.20000092685	Sum of GTIs [s]
			ontime3	995.20000092685	Sum of GTIs [s]
			ontime6	995.20000092685	Sum of GTIs [s]
			ontime7	995.20000092685	Sum of GTIs [s]
			l1events	113796	Number of level 1 events

2.1.4 Events

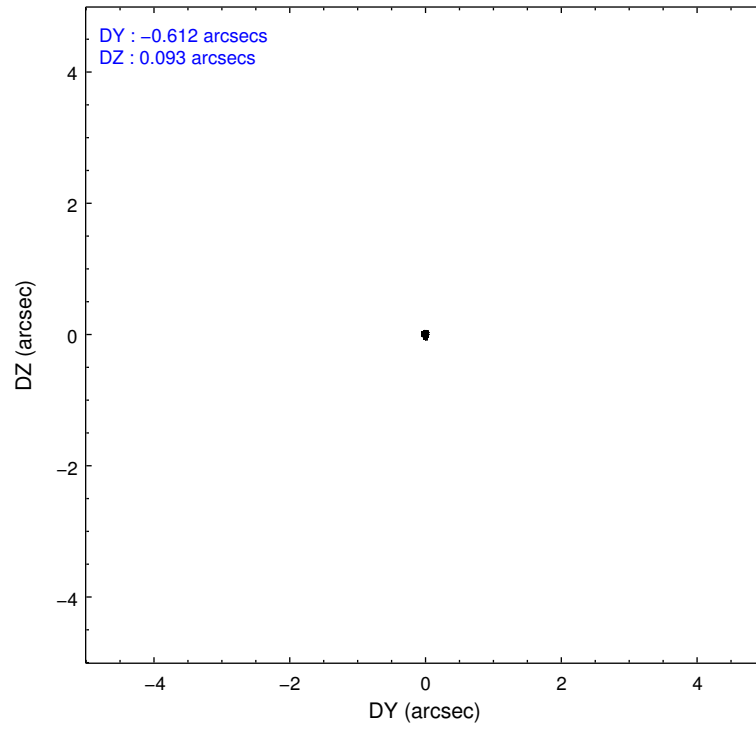
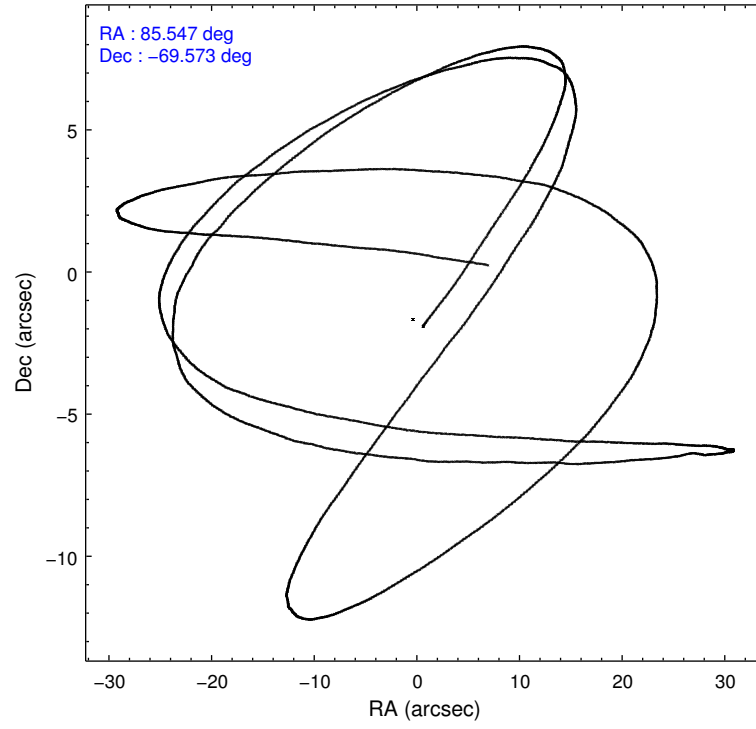
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	8899	9486	10252	10080	9717	65362
rejected events	7718	8134	9123	8675	8508	12293
rejected %	86%	85%	88%	86%	87%	18%

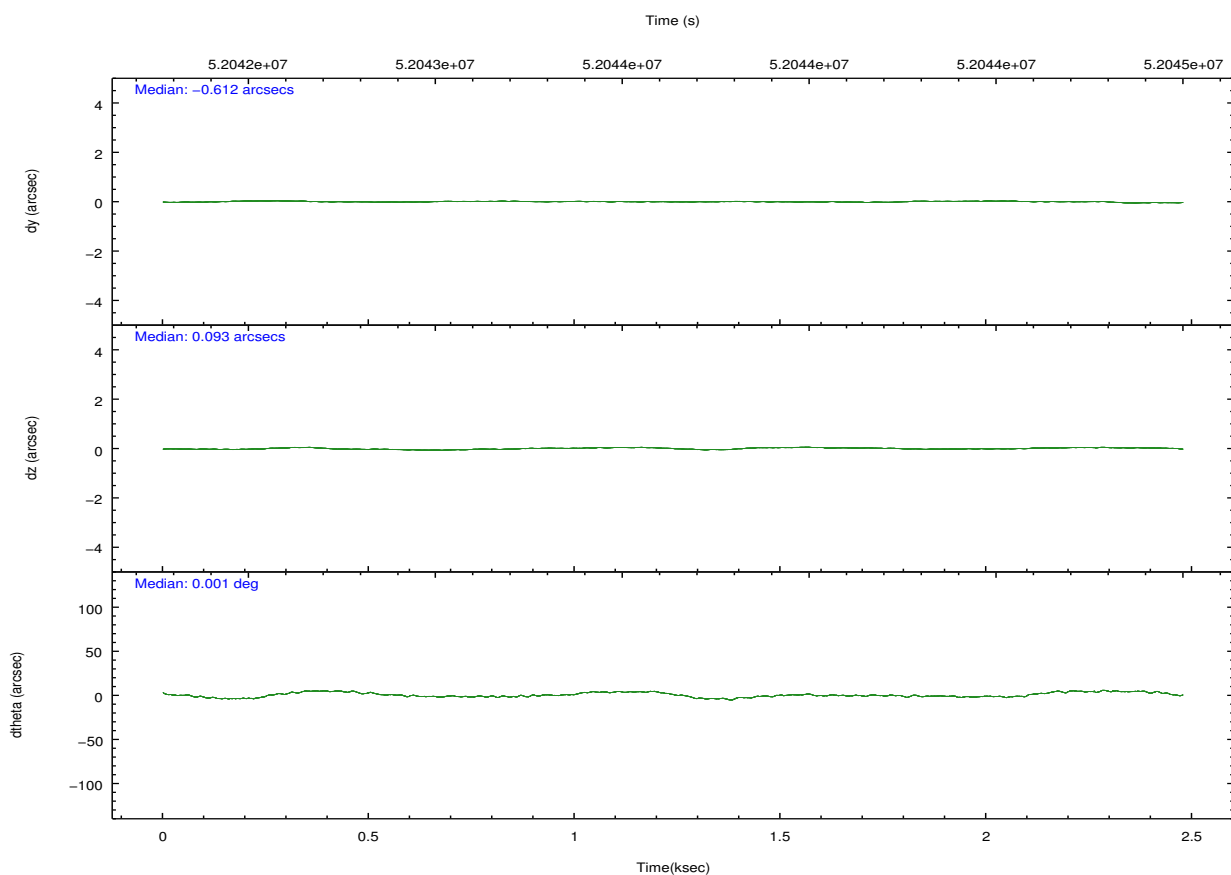
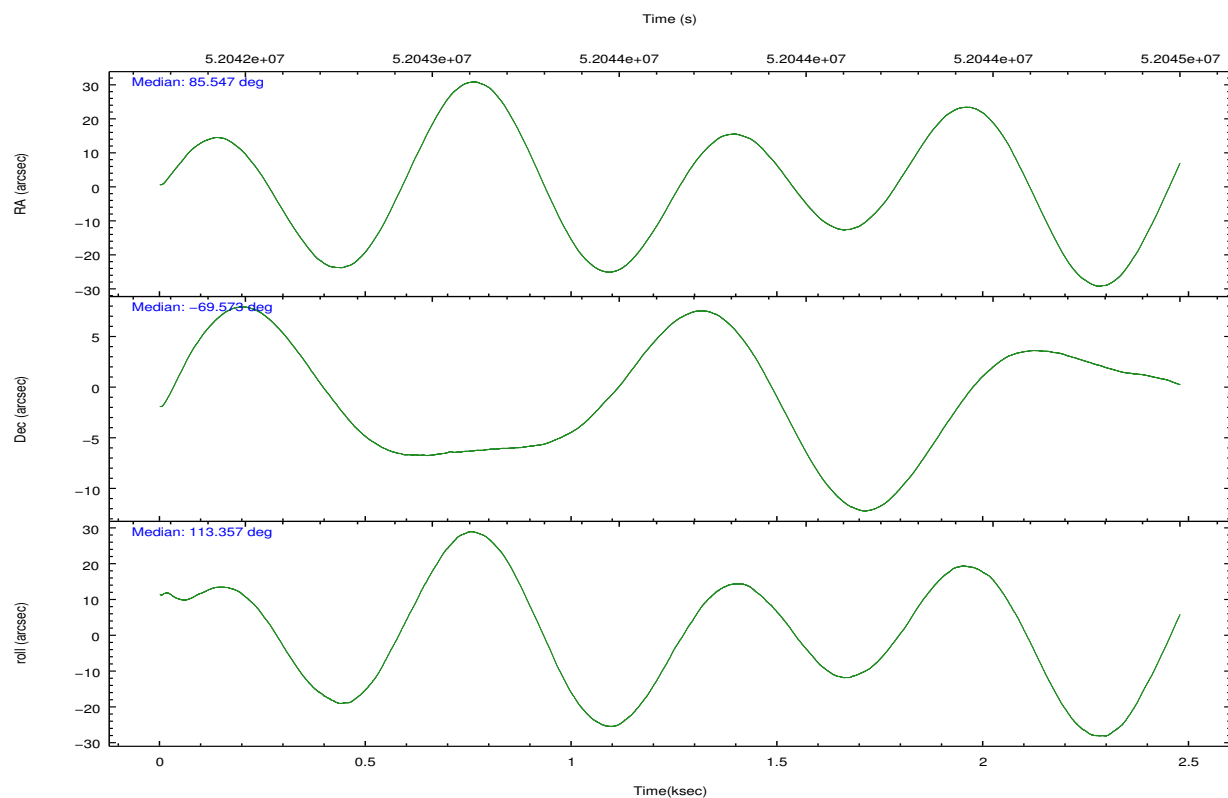
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	602	676	542	805	568	10581
	6%	7%	5%	7%	5%	16%
grade 1 events	5	8	3	7	1	576
	0%	0%	0%	0%	0%	0%
grade 2 events	230	246	245	249	279	11481
	2%	2%	2%	2%	2%	17%
grade 3 events	104	115	84	80	88	6725
	1%	1%	0%	0%	0%	10%
grade 4 events	93	126	91	101	78	7351
	1%	1%	0%	1%	0%	11%
grade 5 events	209	218	218	279	221	2666
	2%	2%	2%	2%	2%	4%
grade 6 events	160	203	178	183	202	17245
	1%	2%	1%	1%	2%	26%
grade 7 events	7496	7894	8891	8376	8280	8737
	84%	83%	86%	83%	85%	13%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	85.610175	85.54694087365593	Subarray requested	NONE	NONE
Pointing Dec	-69.590205	-69.57269438806928	Alternating exposures requested	N	N
Pointing Roll	113.213003	113.362429611834	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.782348	-0.7362356599963374			
SIM defocus (mm)	0	0.04611255558364913			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	52042875.184000	52042208.769752			
Observation start date	1999-08-26T08:20:11	1999-08-26T08:10:08			
Observation end time	52044875.184000	52045009.069853			
Observation end date	1999-08-26T08:53:31	1999-08-26T08:56:49			
Read mode	TIMED	TIMED			

2.3 Aspect



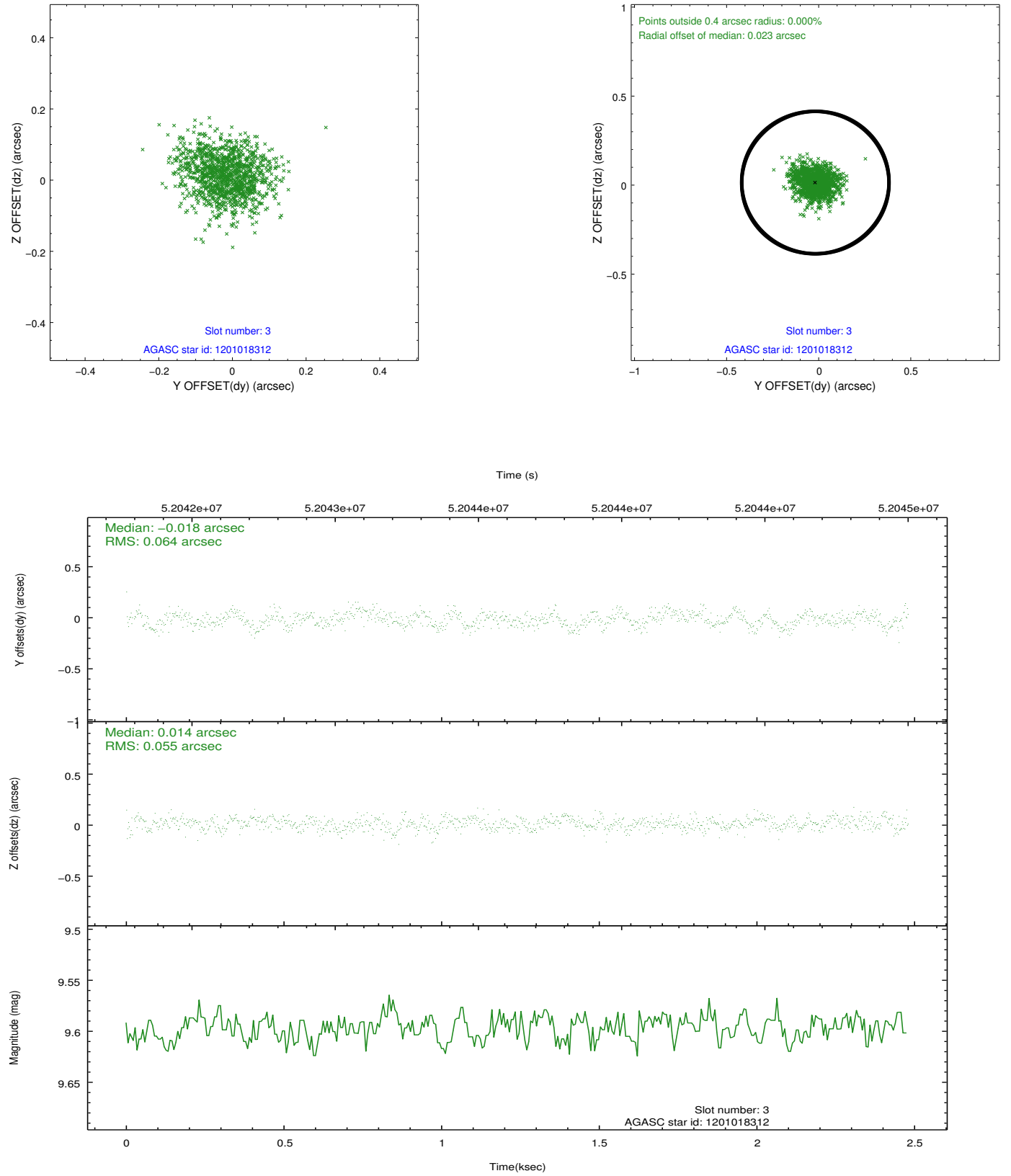


Slot Statistics

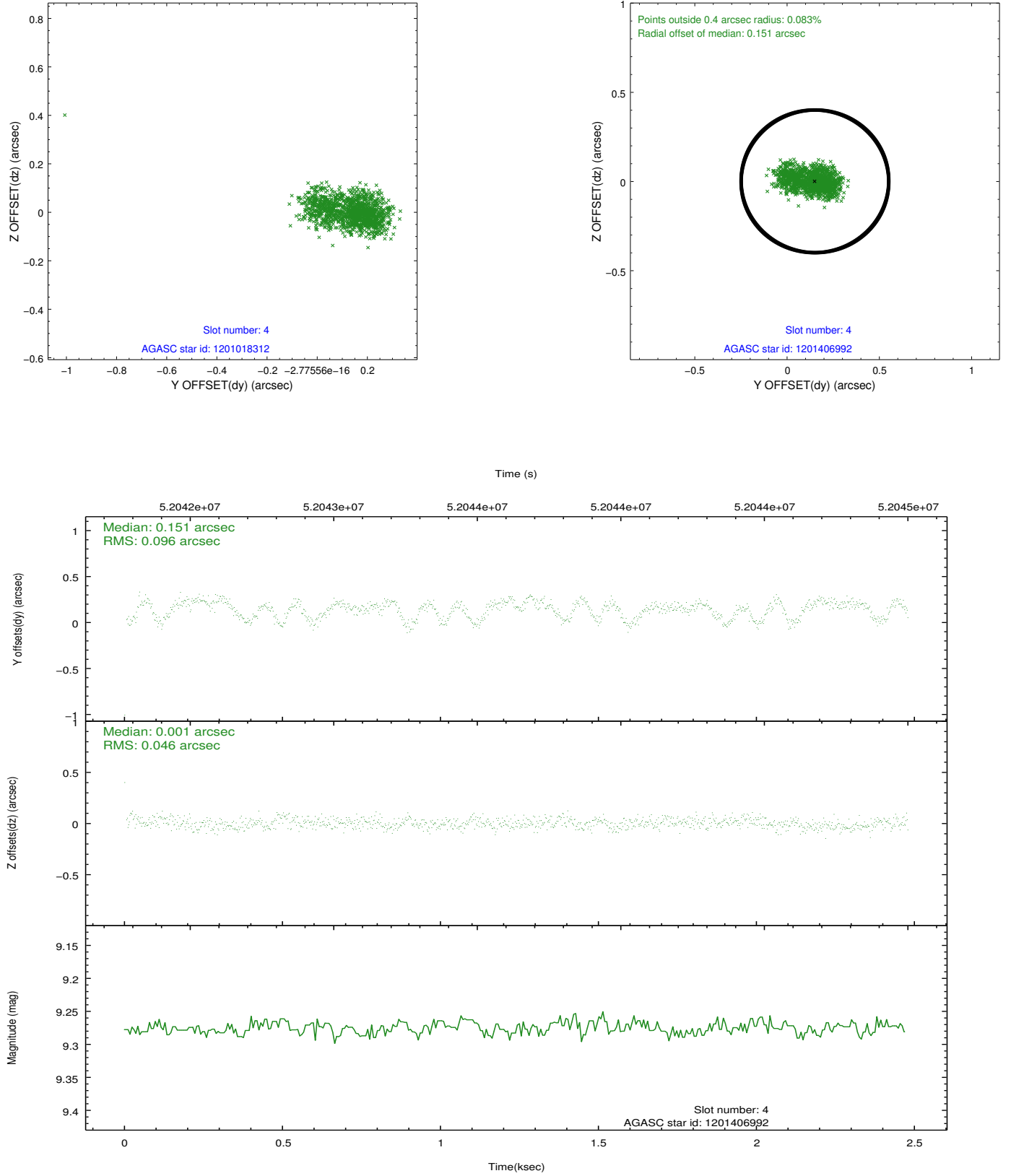
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.21	1210	-0.034	0.057	0.021	0.040	0.000000	0.000000	-753.75	-829.57
1	FID	ACIS-I-4	7.22	1210	0.154	0.012	0.022	0.032	0.000000	0.000000	2160.07	1075.80
2	FID	ACIS-I-5	7.23	1210	-0.219	-0.001	0.018	0.026	0.000000	0.000000	-1806.07	1075.26
3	GUIDE	1201018312	9.60	1208	-0.018	0.014	0.090	0.145	86.298231	-69.115627	1217.11	-1482.95
4	GUIDE	1201406992	9.28	1207	0.151	0.001	0.106	0.181	83.682859	-69.471866	1315.51	2081.73
5	GUIDE	1201542232	9.69	1208	-0.140	0.017	0.135	0.243	84.533398	-70.465667	-2396.13	2439.48
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	1201540376	9.25	1209	-0.001	-0.031	0.065	0.108	87.370568	-69.787305	-1546.50	-1718.26

2.4 Star Slots

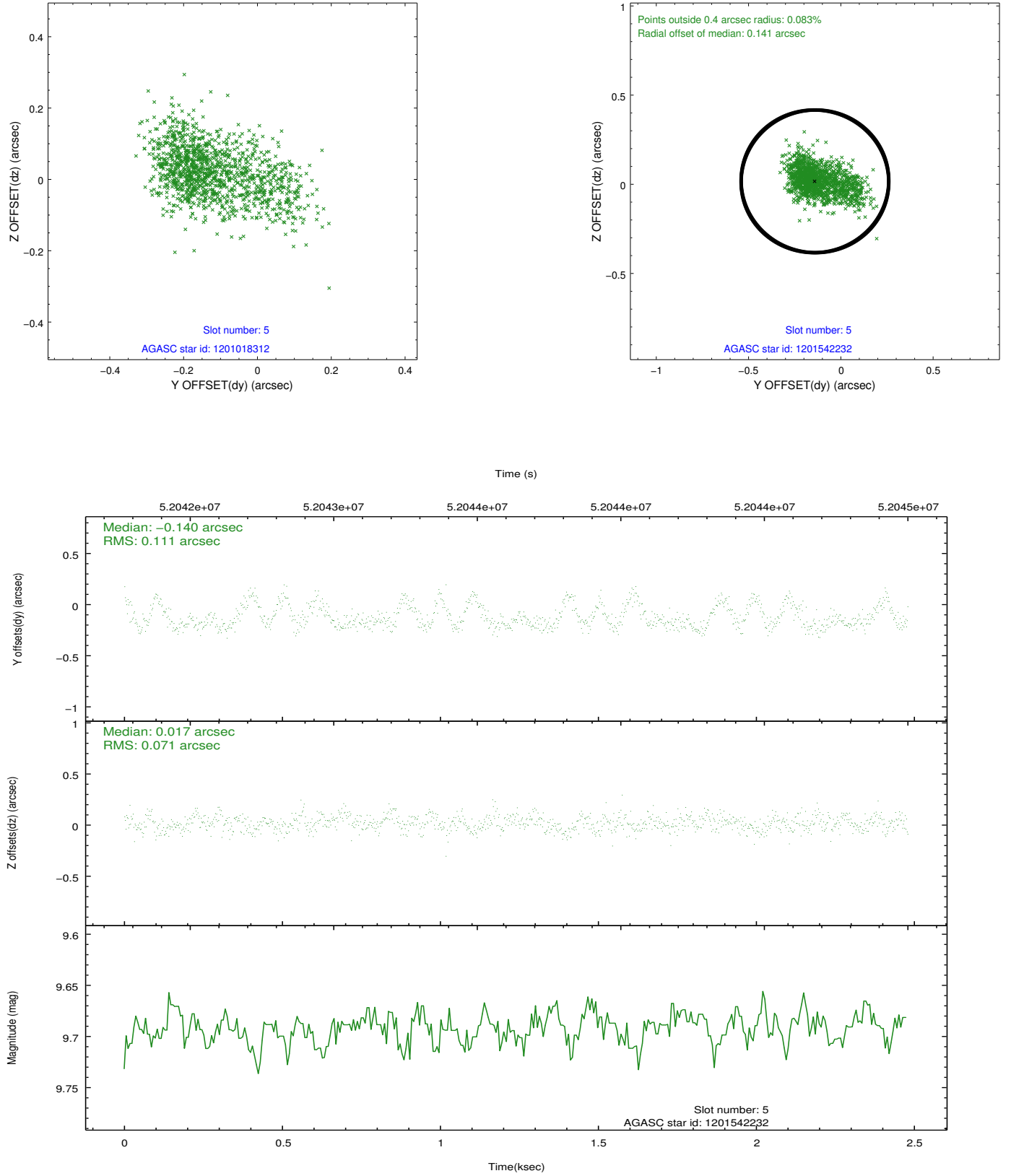
2.4.1 Slot 3



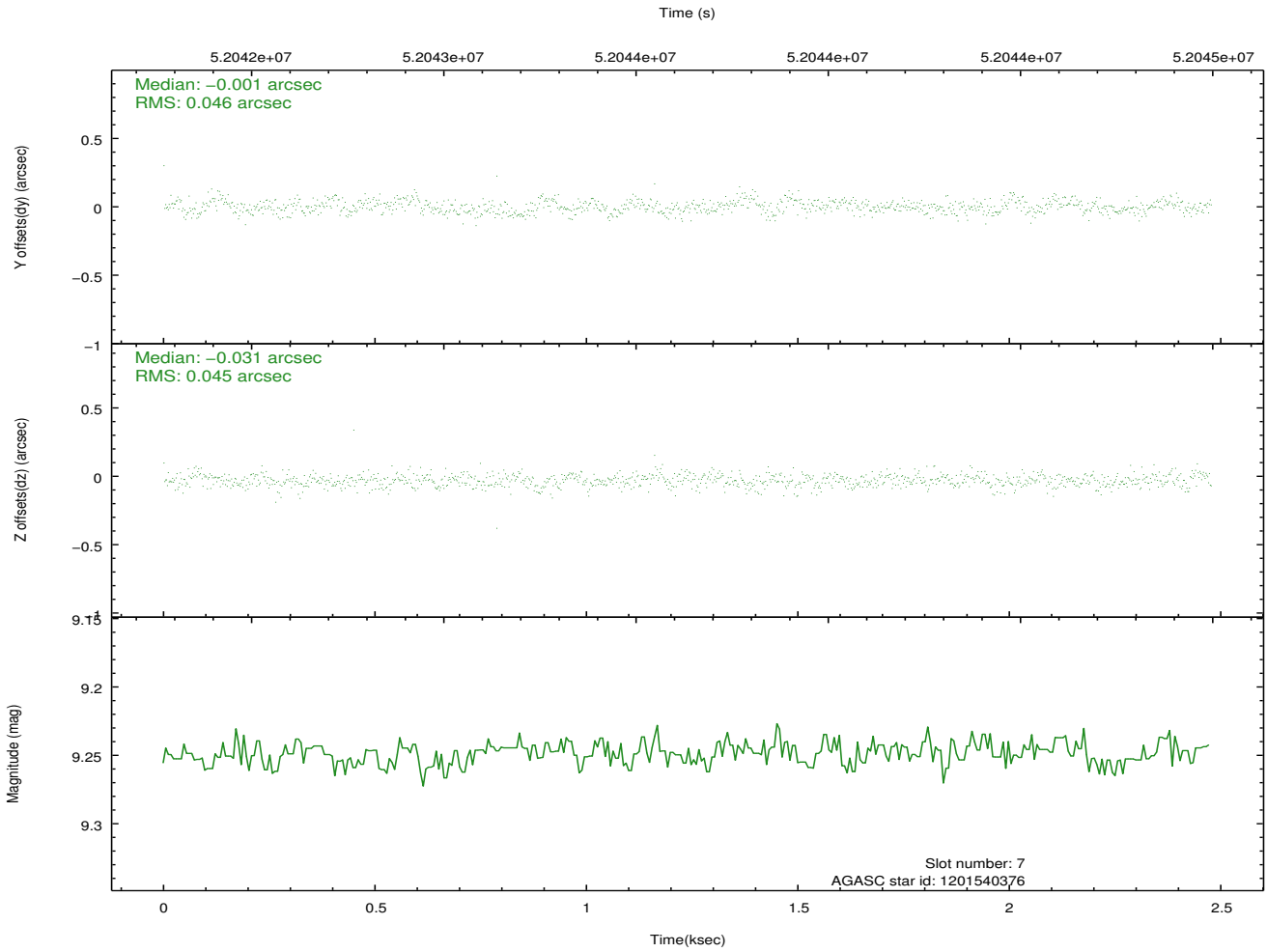
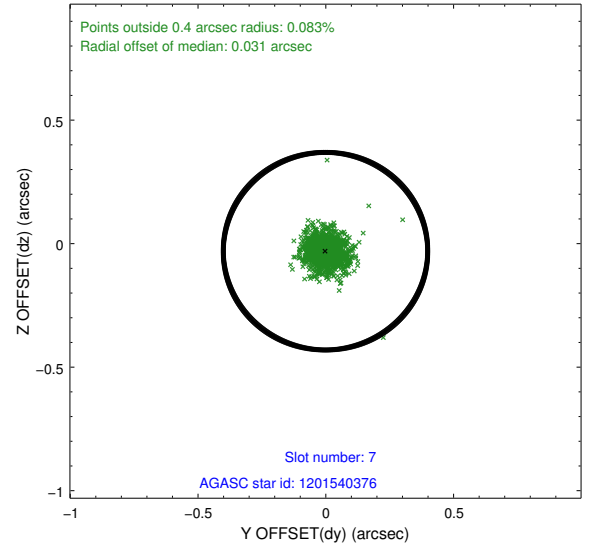
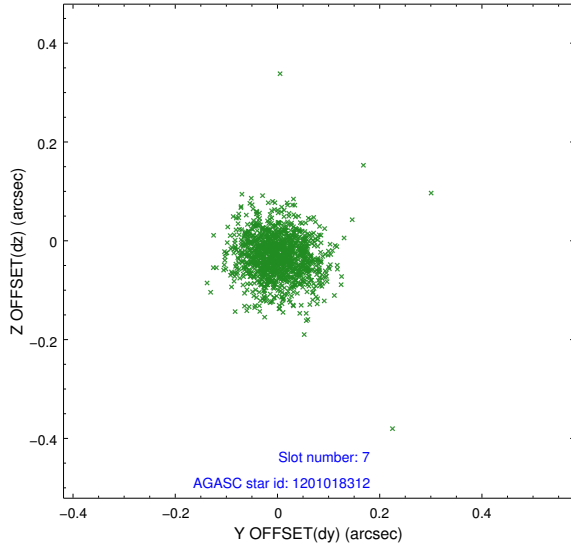
2.4.2 Slot 4



2.4.3 Slot 5

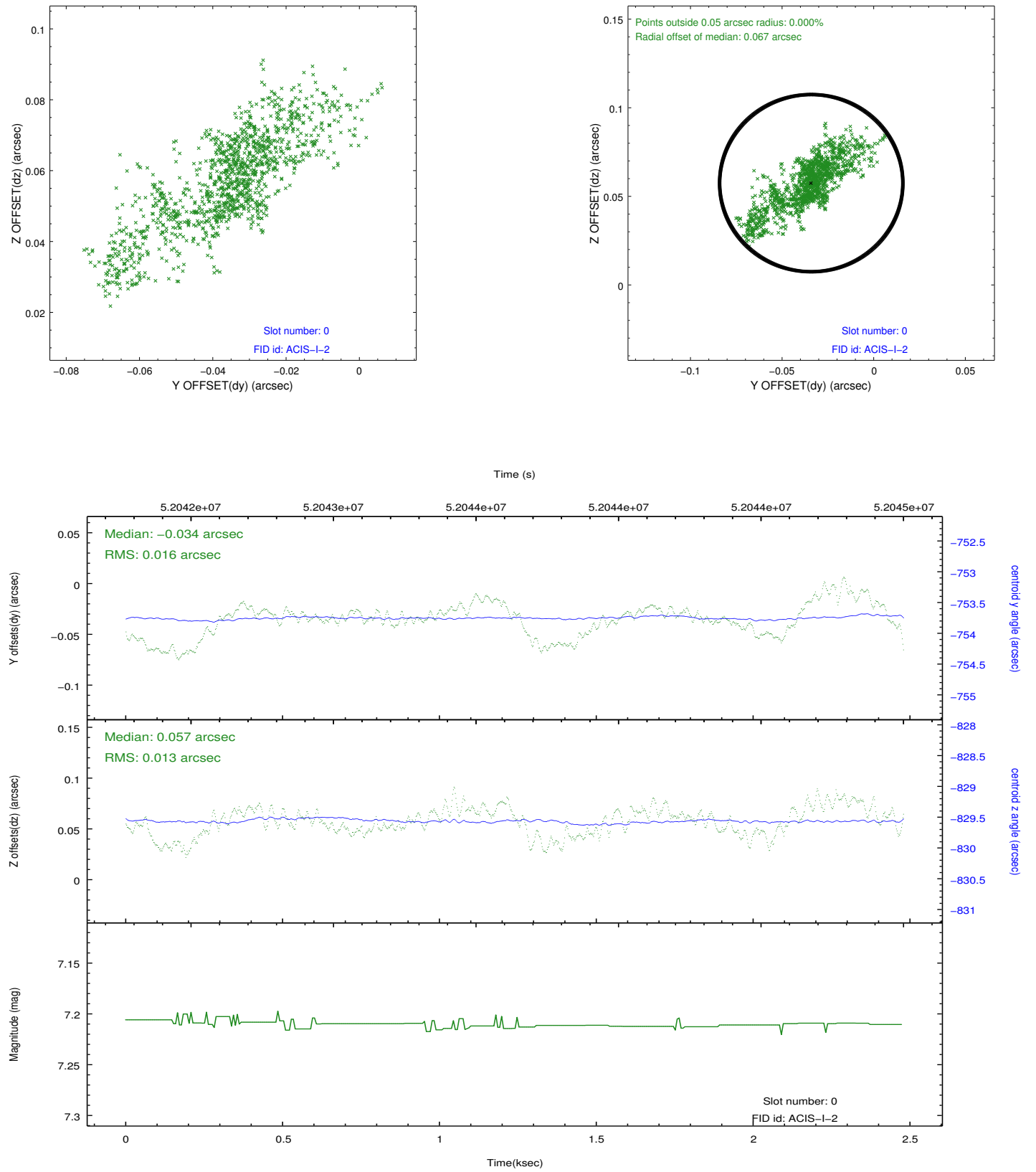


2.4.4 Slot 7

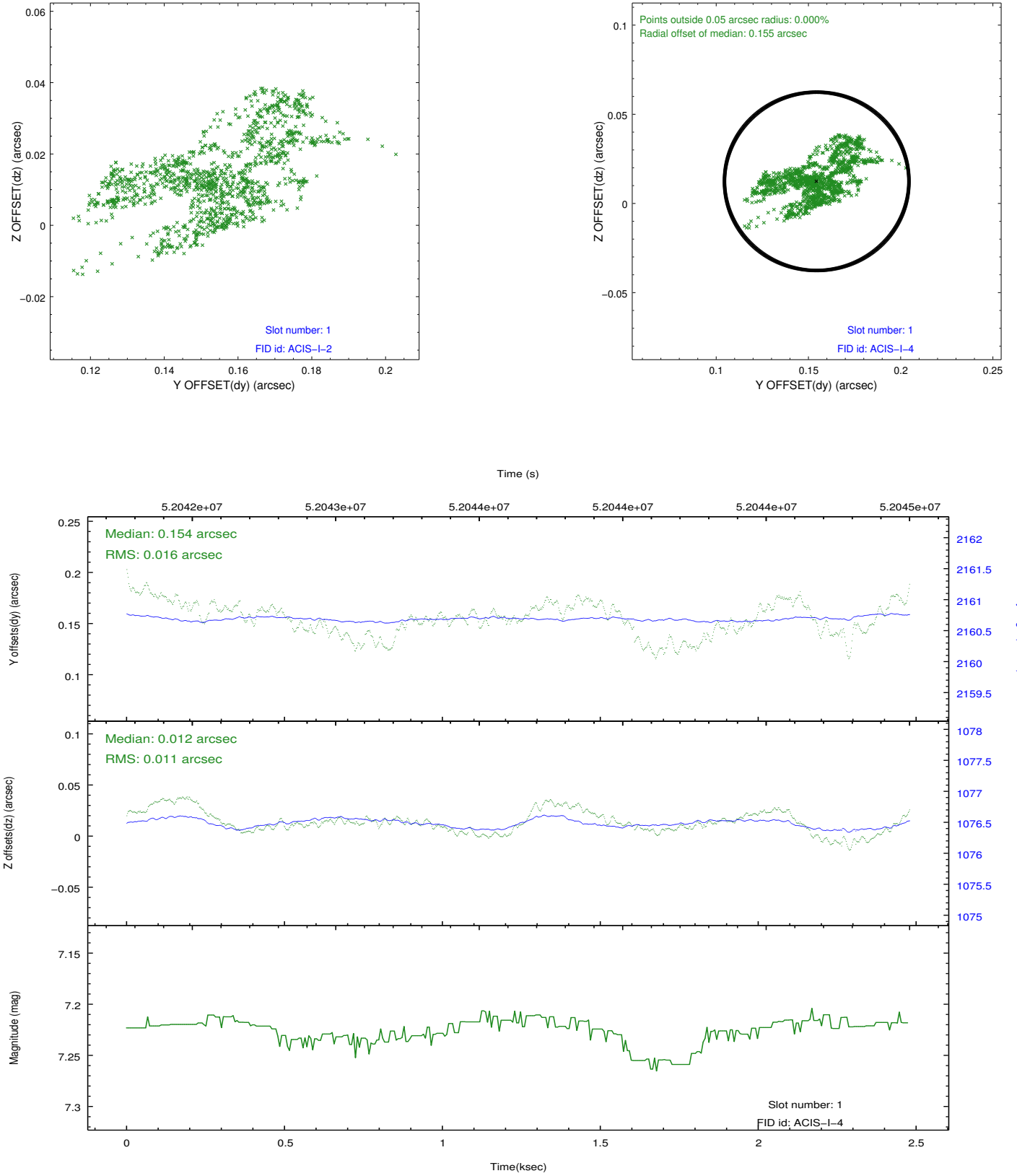


2.5 FID Slots

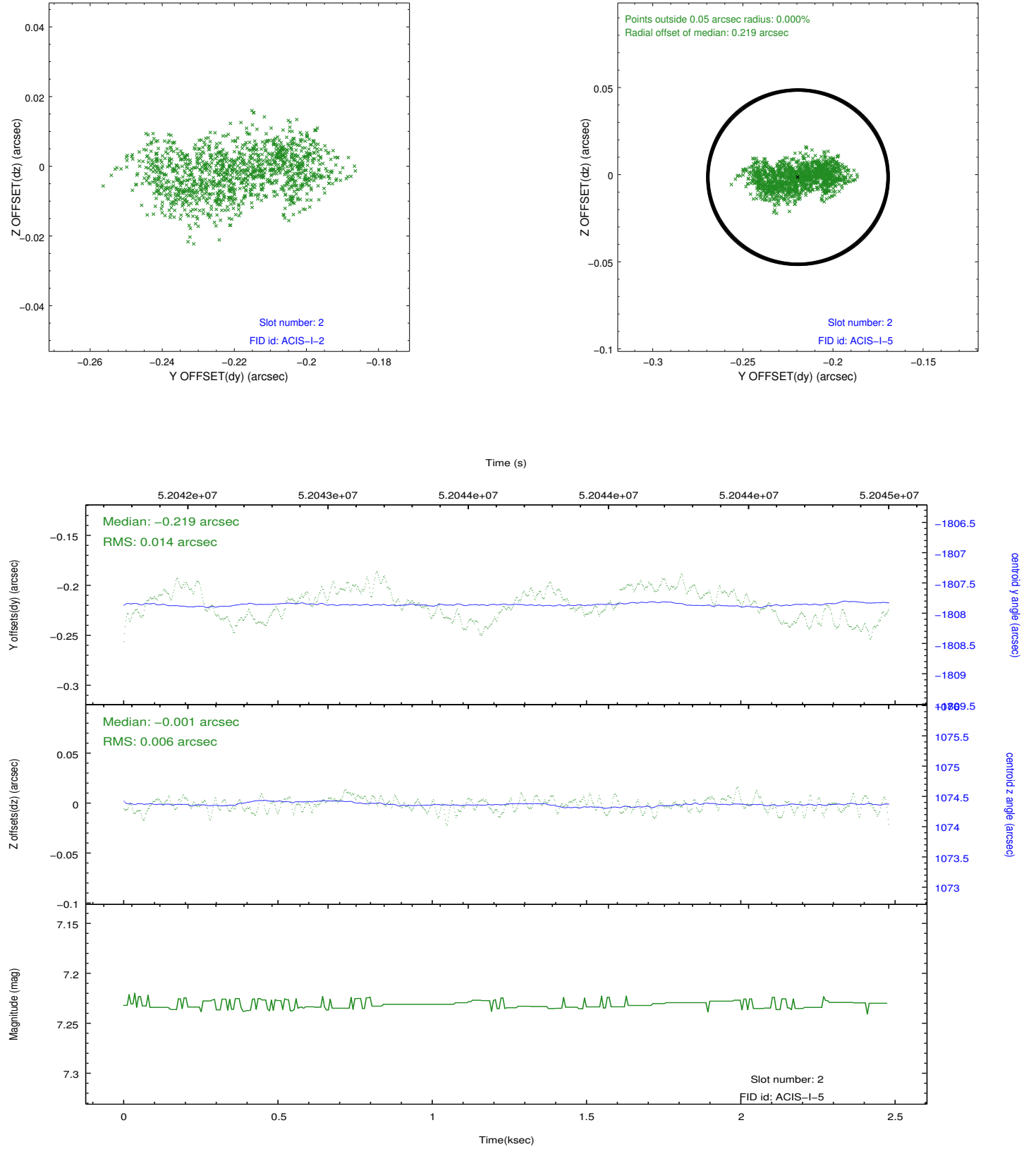
2.5.1 Slot 0



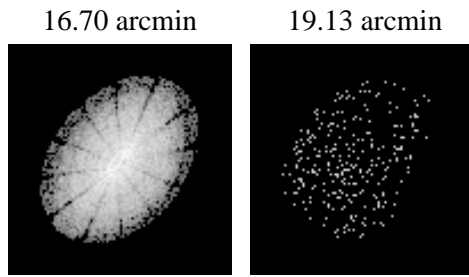
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.998

A.2 Comments

Target is very off-axis on S3.

===(SIM TT = 92903, SIM FA = -504)

===

Charge time for this ObsId remains at original value of 0.998 ksec, although with the current processing the charge time would have been 0.995 ksec.

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One of the 5 guide stars was not acquired for this observation.

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The focal plane temperature is approximately -100 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.