

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 7170 - L2 Version 002
Chandra X-Ray Center

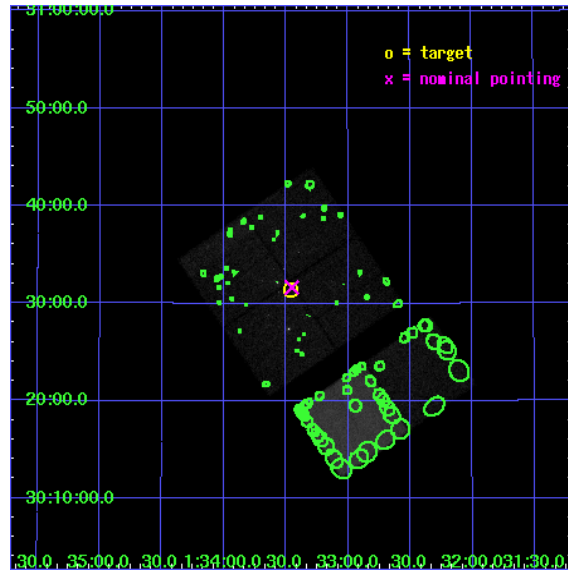
L2 Processing Date : Mar 25 2006

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1 Front

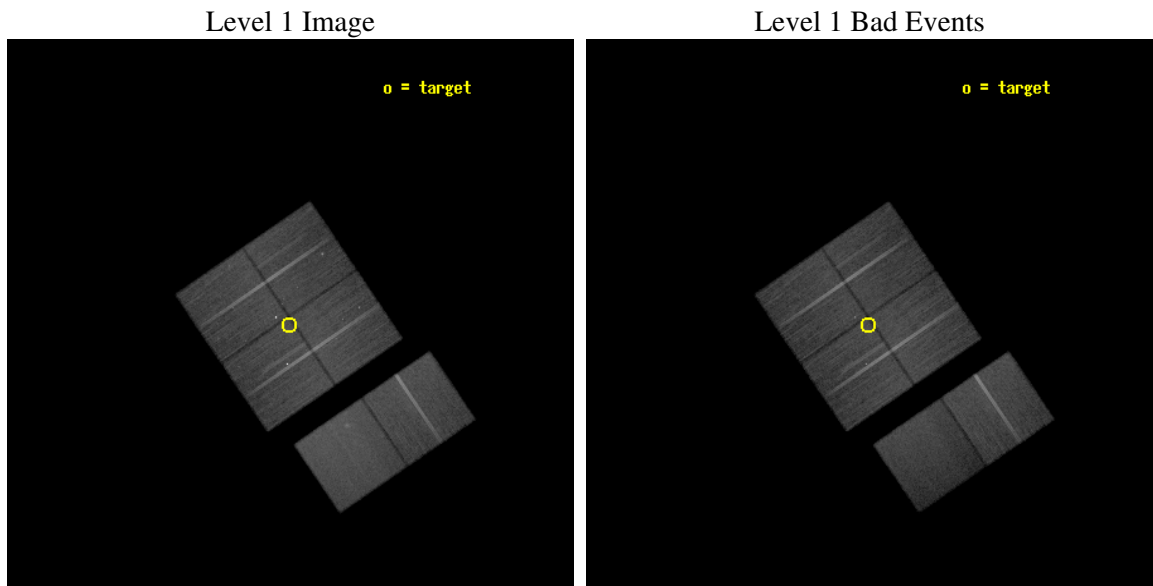
seq_num	600486
obs_id	7170
title	The Chandra ACIS Survey of M33 (ChASeM33): A Deep Survey of the Nearest Face-on Spiral Galaxy
observer	Dr Manami Sasaki
object	M33 Field 5
dtcycle	0
cycle	P
ra_targ	23.36625
dec_targ	30.523694
ra_nom	23.363350572508
dec_nom	30.527586315042
roll_nom	145.71015621501
revision	2
ontime	41487.917954475
livetime	40962.57295631
ontime0	41491.158855021
ontime1	41491.158885121
ontime2	41487.917834878
ontime3	41487.917954475
ontime6	41494.399845421
ontime7	41494.399845421
l2events	234465



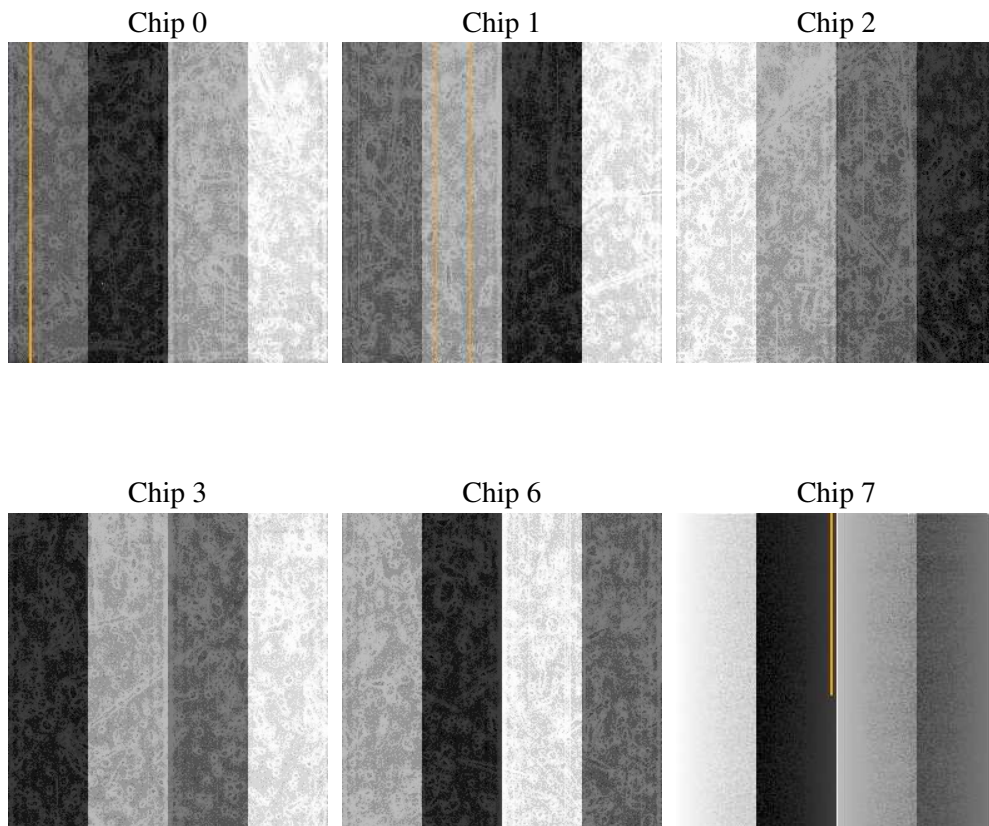
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-26T00:05:45
revision	2

sched_exp_time	41350.000000
ontime	43053.641569823
ontime0	43056.882470369
ontime1	43056.88250047
ontime2	43053.641450226
ontime3	43053.641569823
ontime6	43060.123440832
ontime7	43060.12346077
l1events	1555865

2.1.4 Events

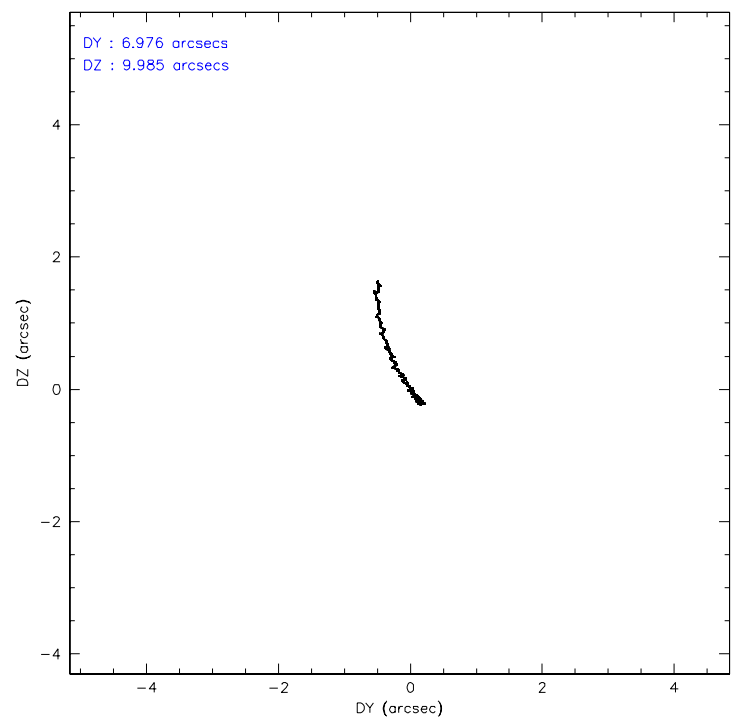
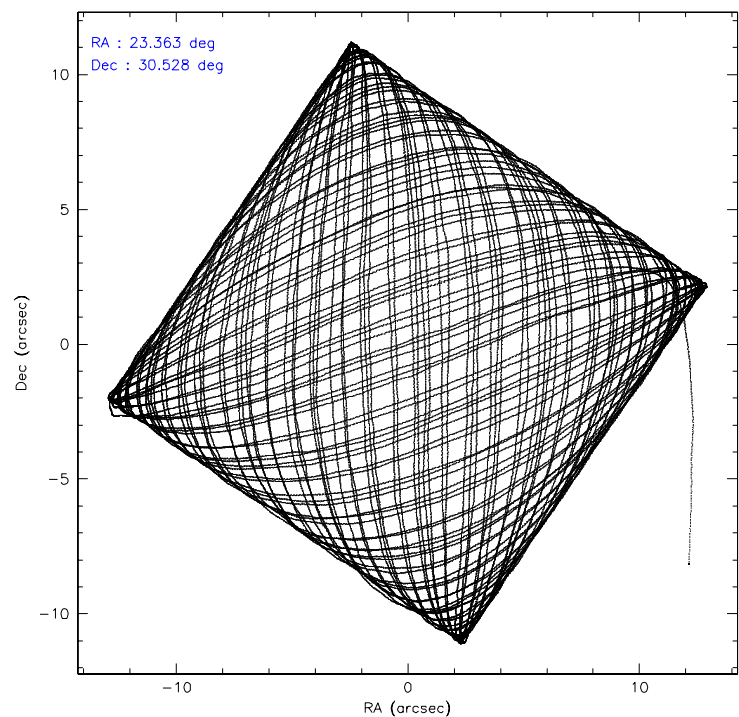
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	234246	247435	265107	259515	261226	288336
rejected events	207855	212463	240089	227216	235287	174086
rejected %	88%	85%	90%	87%	90%	60%

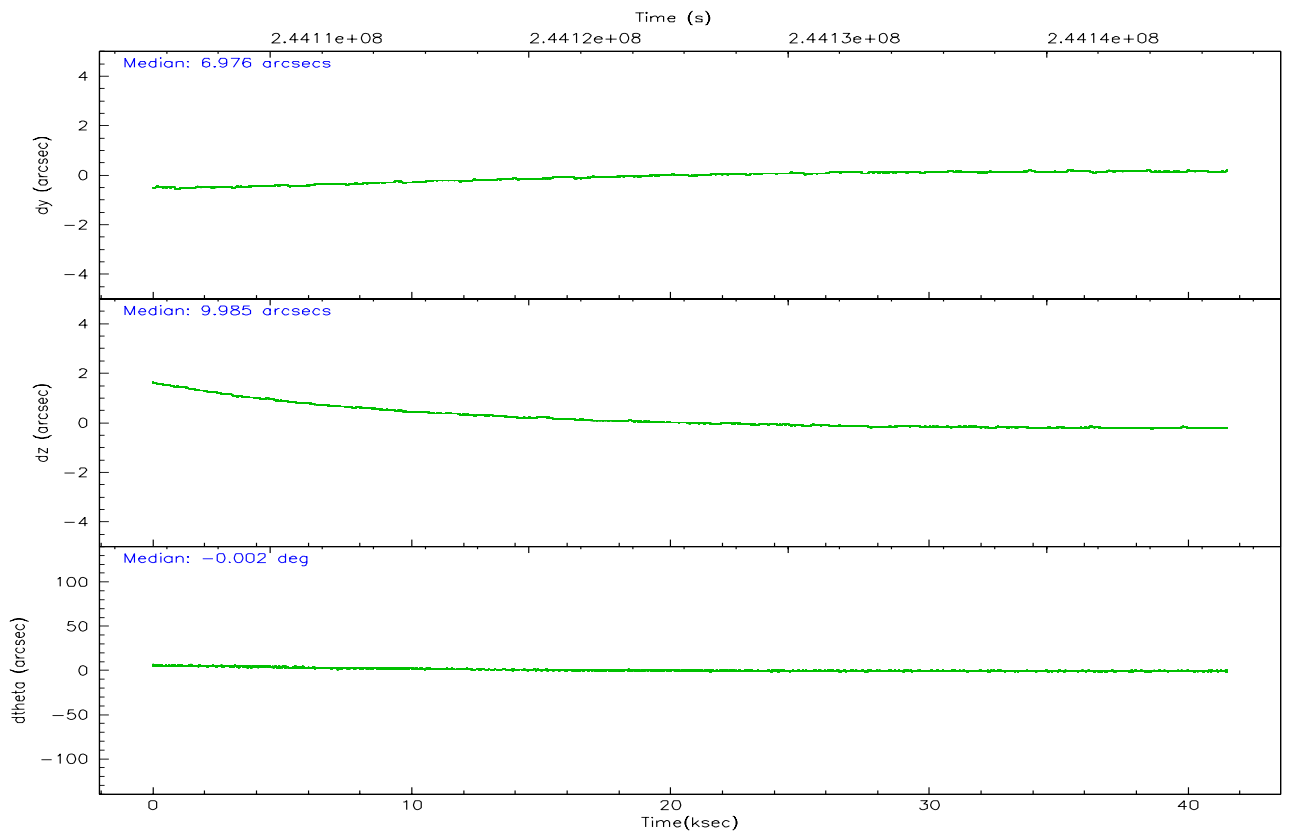
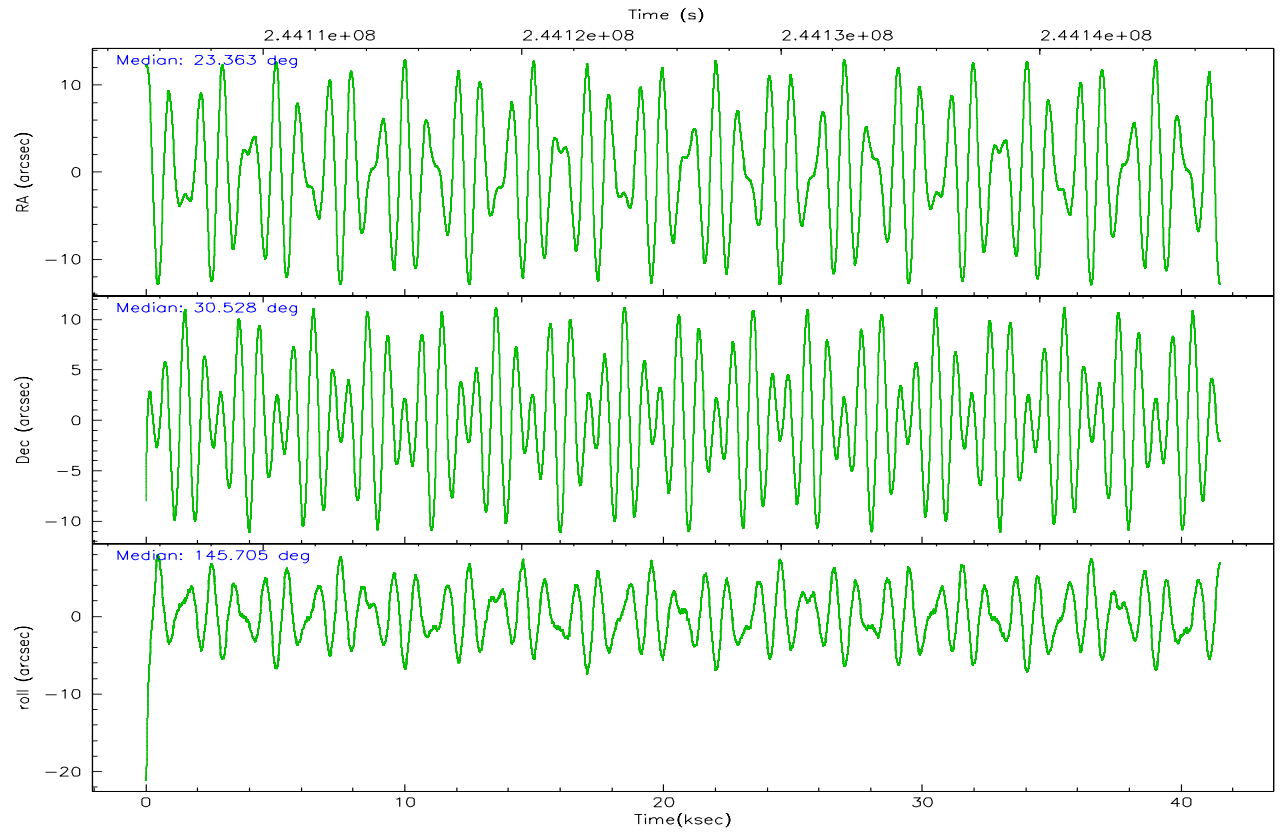
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	10579	16137	9828	15875	9217	6182
	4%	6%	3%	6%	3%	2%
grade 1 events	146	307	147	469	129	143
	0%	0%	0%	0%	0%	0%
grade 2 events	6235	7079	6001	6166	5899	29314
	2%	2%	2%	2%	2%	10%
grade 3 events	2962	3449	2719	3177	2984	6449
	1%	1%	1%	1%	1%	2%
grade 4 events	2747	3377	2729	3036	2886	6098
	1%	1%	1%	1%	1%	2%
grade 5 events	8754	9949	8251	10557	10702	21257
	3%	4%	3%	4%	4%	7%
grade 6 events	4781	6036	4643	5093	5960	70726
	2%	2%	1%	1%	2%	24%
grade 7 events	198042	201101	230789	215142	223449	148167
	84%	81%	87%	82%	85%	51%

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	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	23.395045	23.36335057250791	Alternating exposures requested	N	N
Pointing Dec	30.525656	30.52758631504207	Primary exposure time	0.000000	3.2
Pointing Roll	145.485377	145.7101562150108			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	244105629.184000	244103796.50521			
Observation start date	2005-09-26T07:06:05	2005-09-26T06:36:36			
Observation end time	244146979.184000	244147716.21973			
Observation end date	2005-09-26T18:35:15	2005-09-26T18:48:36			
Read mode	TIMED	TIMED			

2.3 Aspect



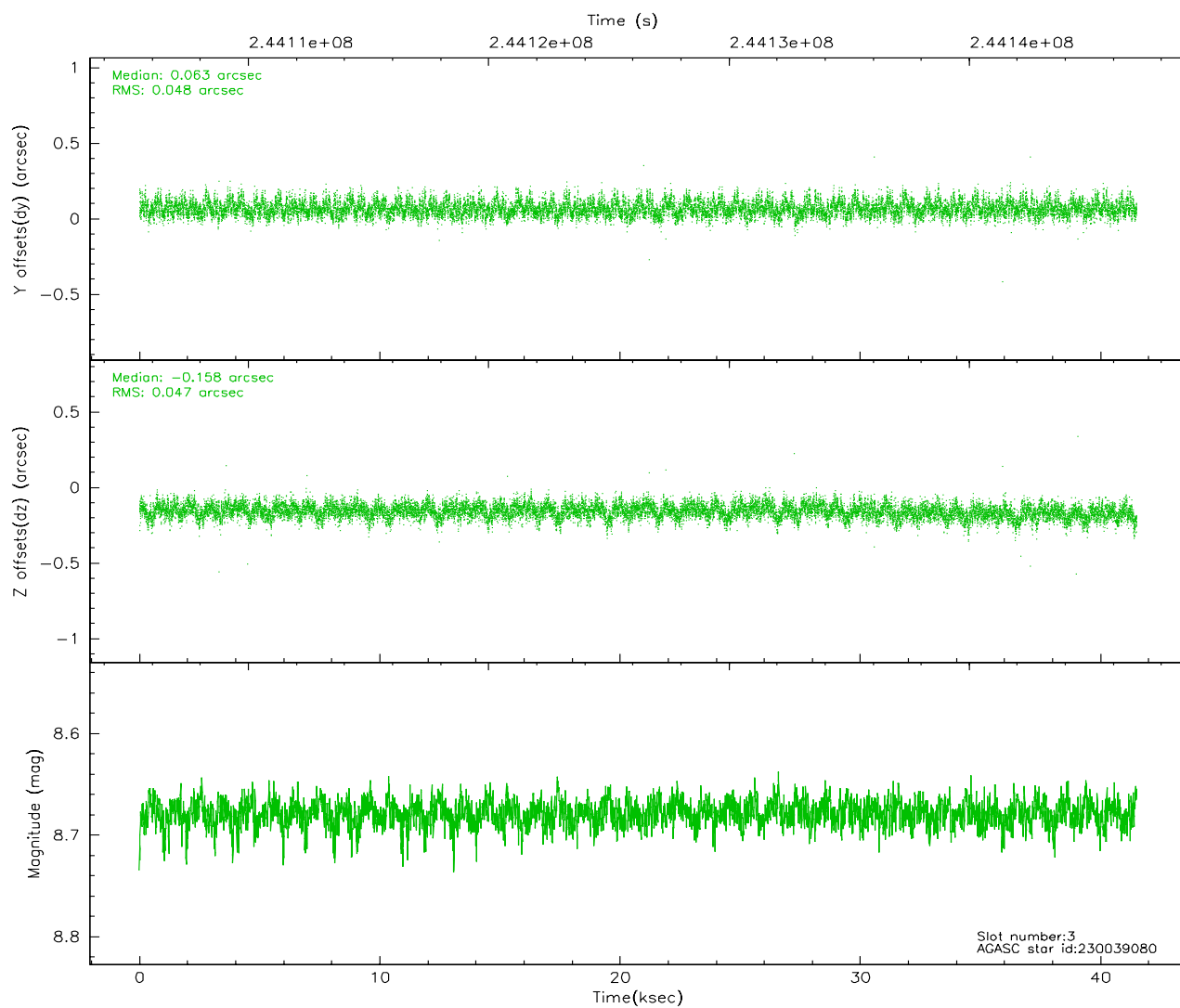
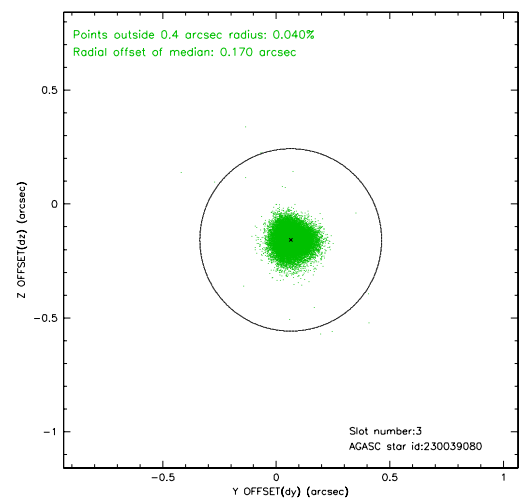
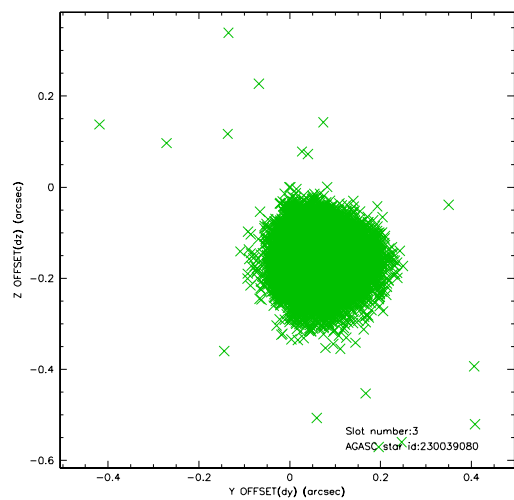


Slot Statistics

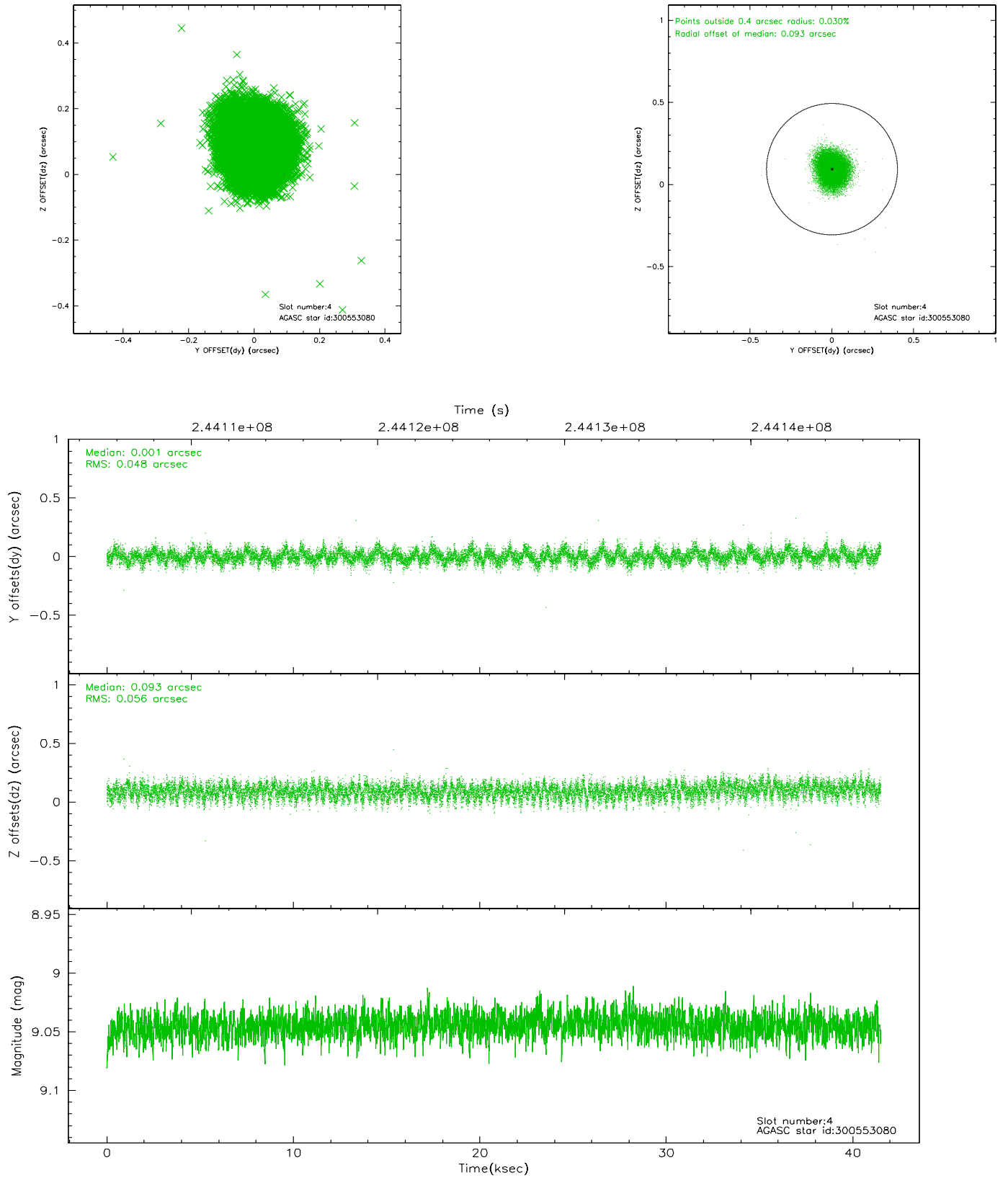
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	10122	-0.007	0.027	0.024	0.040	0.000000	0.000000	932.77	-833.64
1	FID	ACIS-I-5	7.23	10121	-0.123	0.024	0.012	0.027	0.000000	0.000000	-1815.44	1063.85
2	FID	ACIS-I-6	7.26	10120	0.040	0.018	0.016	0.031	0.000000	0.000000	398.36	1708.35
3	GUIDE	230039080	8.68	20236	0.063	-0.158	0.072	0.114	23.320866	29.887774	-1110.40	2023.24
4	GUIDE	300553080	9.04	20228	0.001	0.093	0.078	0.126	23.777101	30.773227	-467.40	-1405.33
5	GUIDE	300559160	9.40	20226	0.053	0.106	0.098	0.163	24.161026	30.632205	-1732.90	-1667.12
6	GUIDE	300559960	7.87	20242	-0.111	-0.096	0.060	0.095	22.944463	30.624765	1353.33	494.65
7	GUIDE	300417960	9.20	20231	-0.013	0.054	0.101	0.160	22.346894	30.364196	2361.96	2311.76

2.4 Star Slots

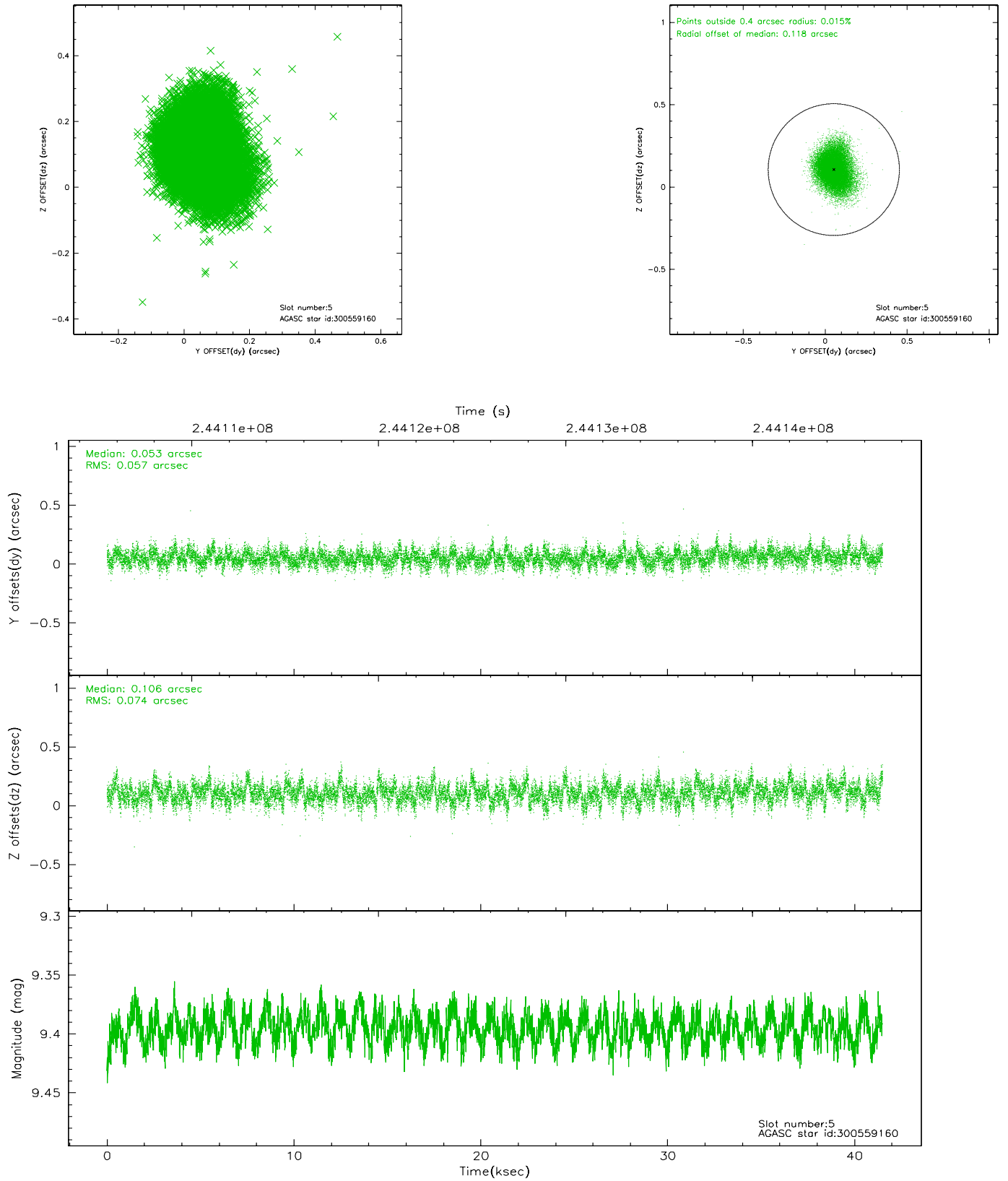
2.4.1 Slot 3



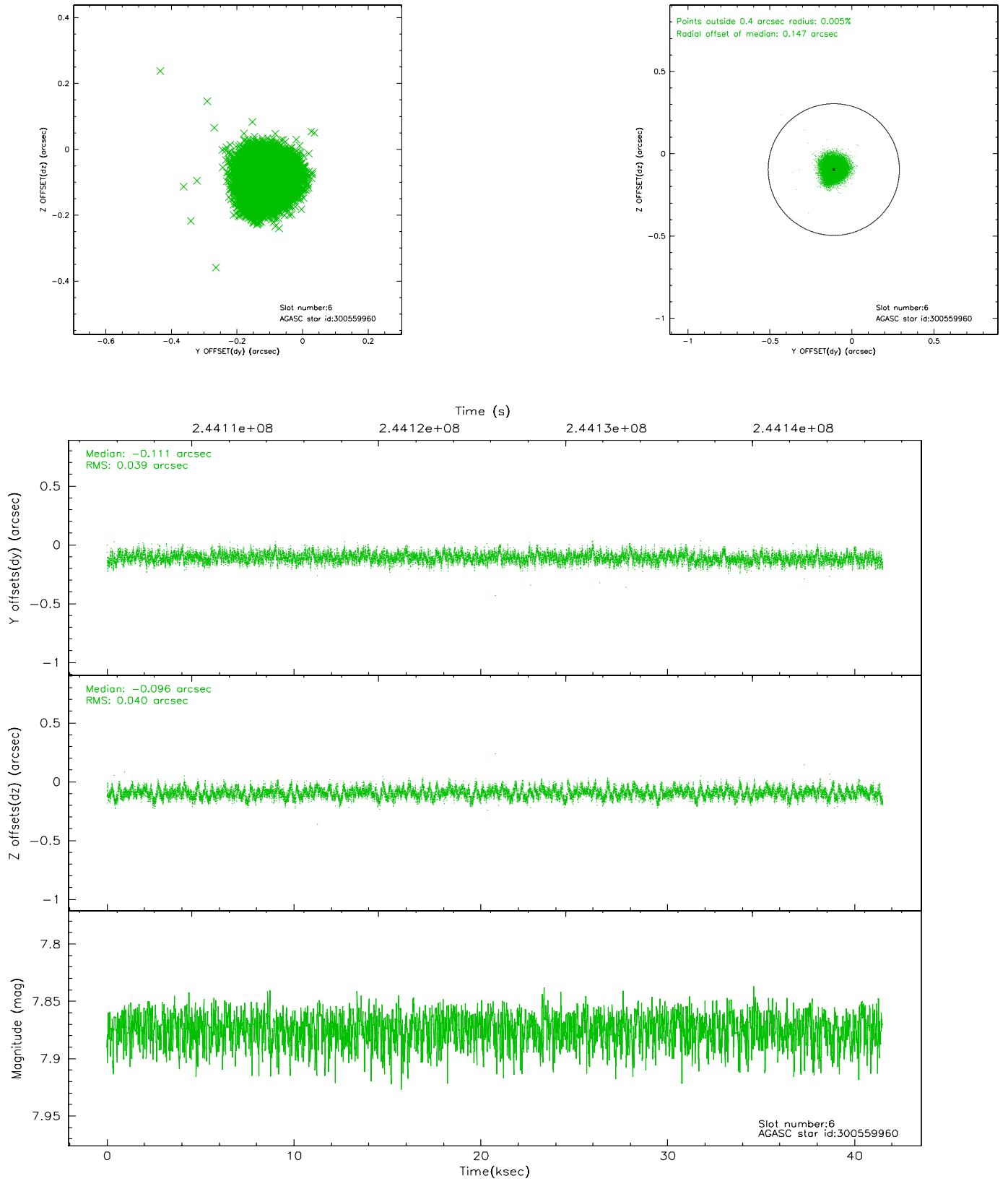
2.4.2 Slot 4



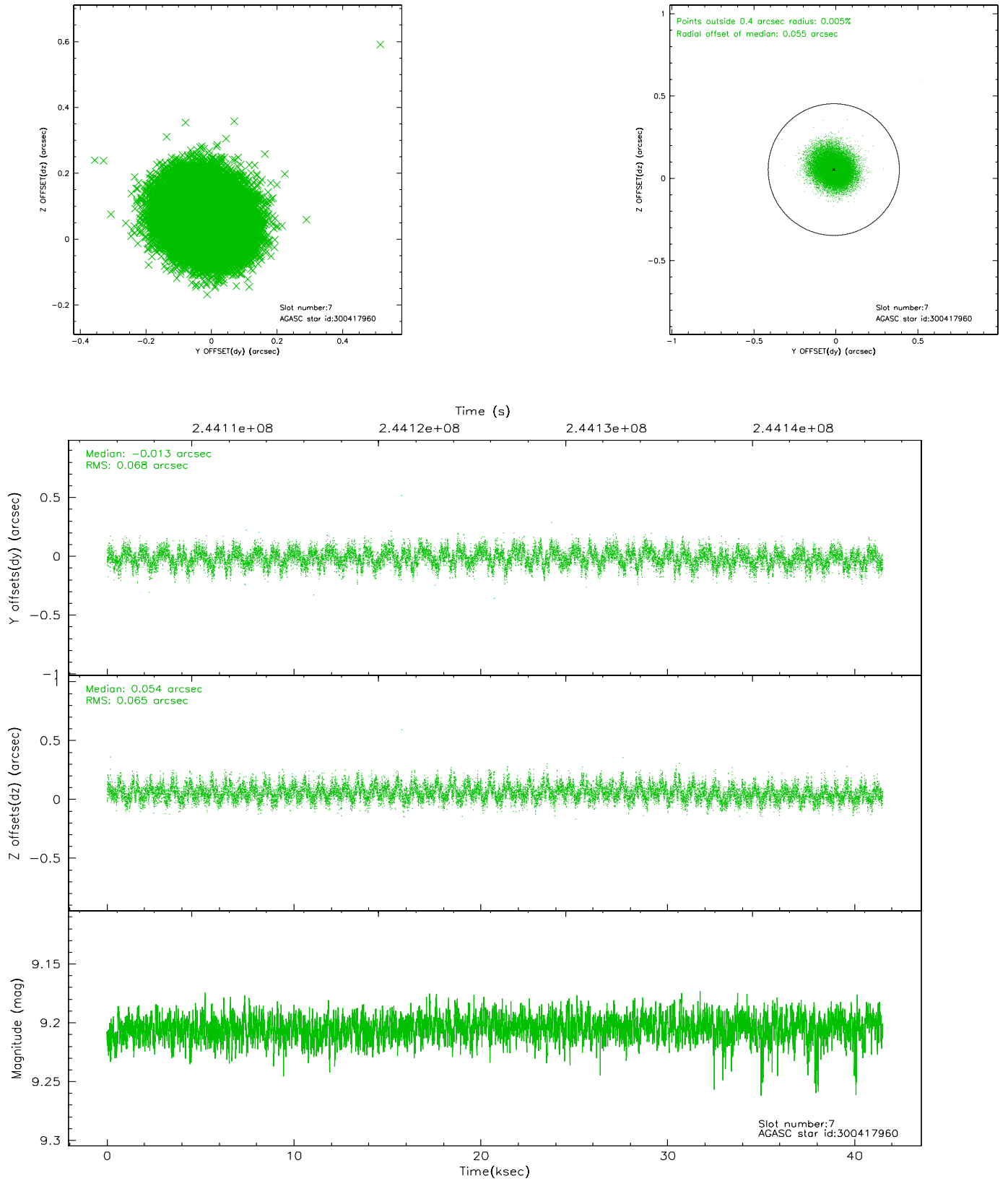
2.4.3 Slot 5



2.4.4 Slot 6

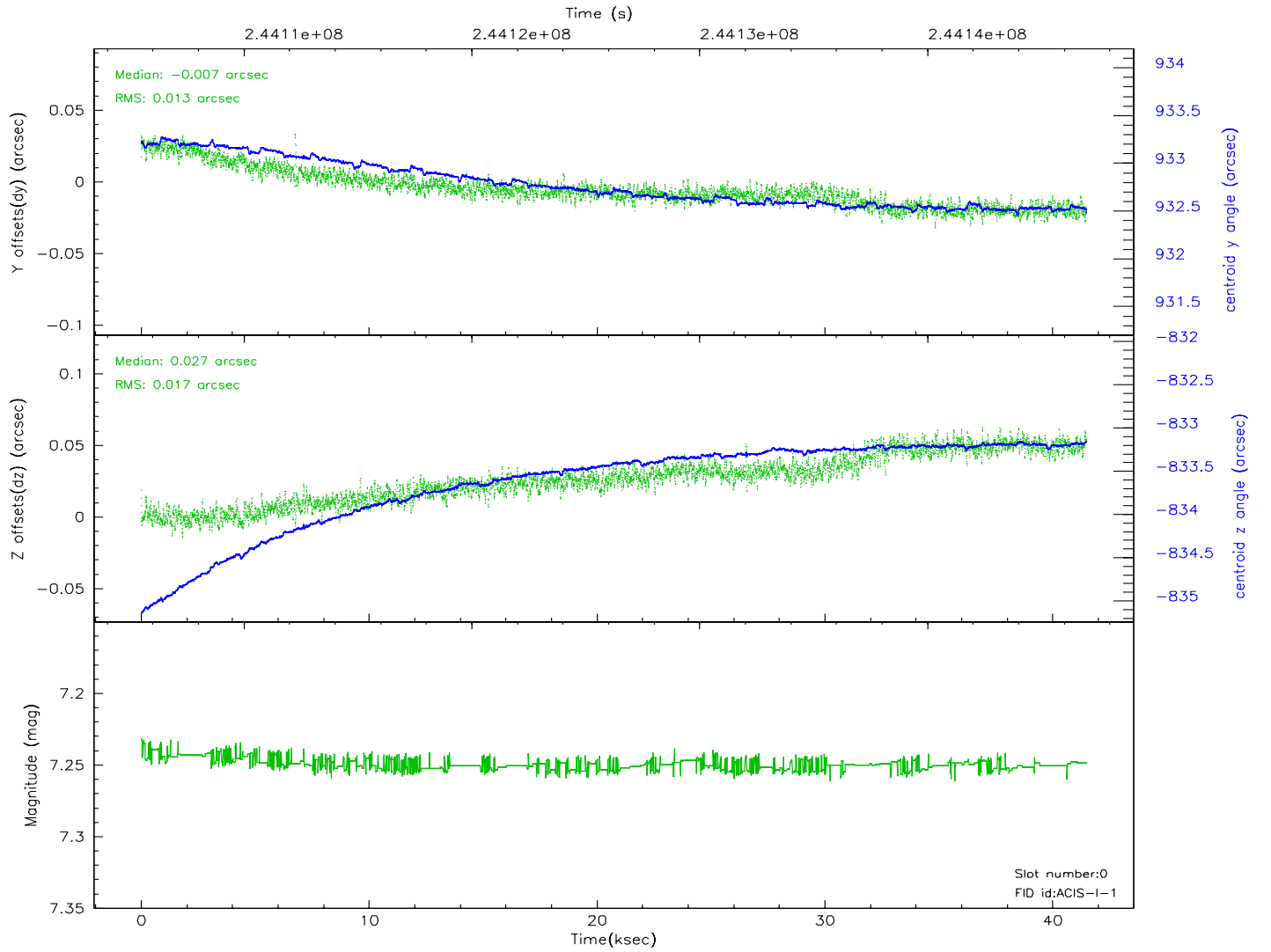
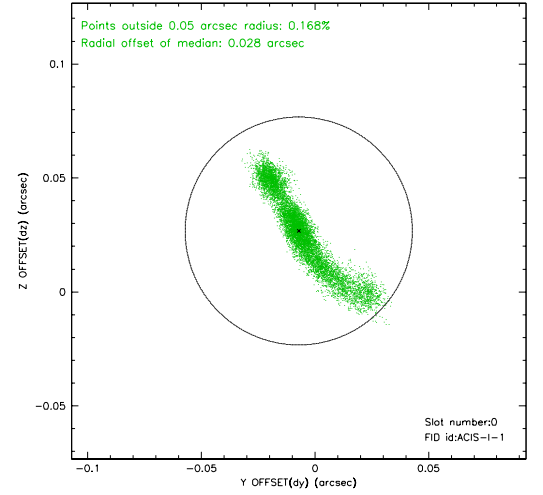
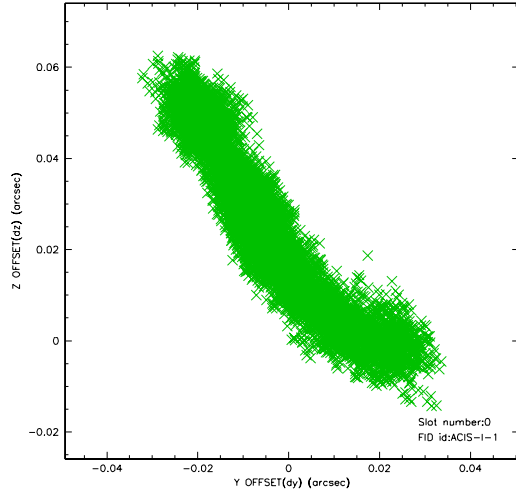


2.4.5 Slot 7

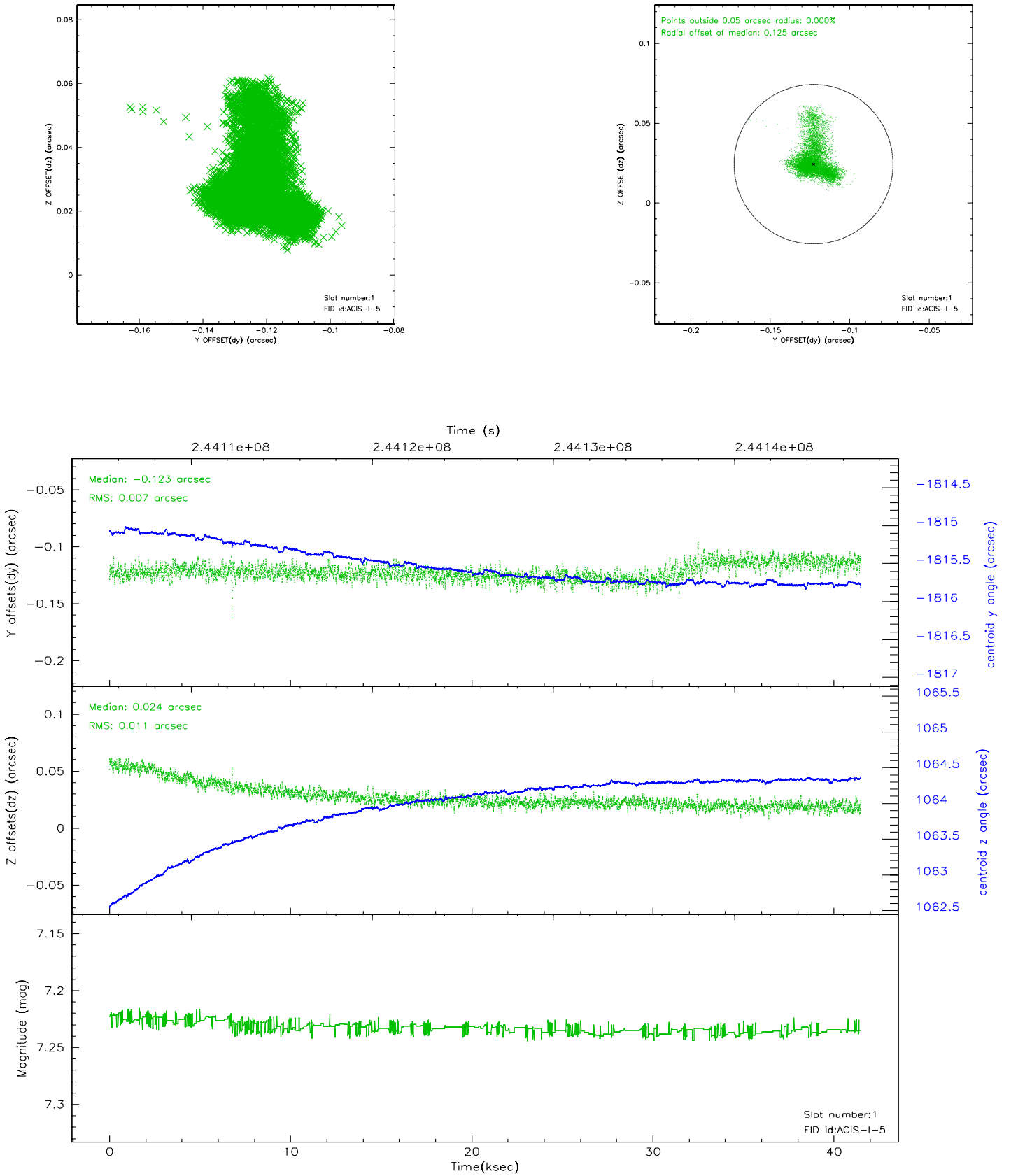


2.5 FID Slots

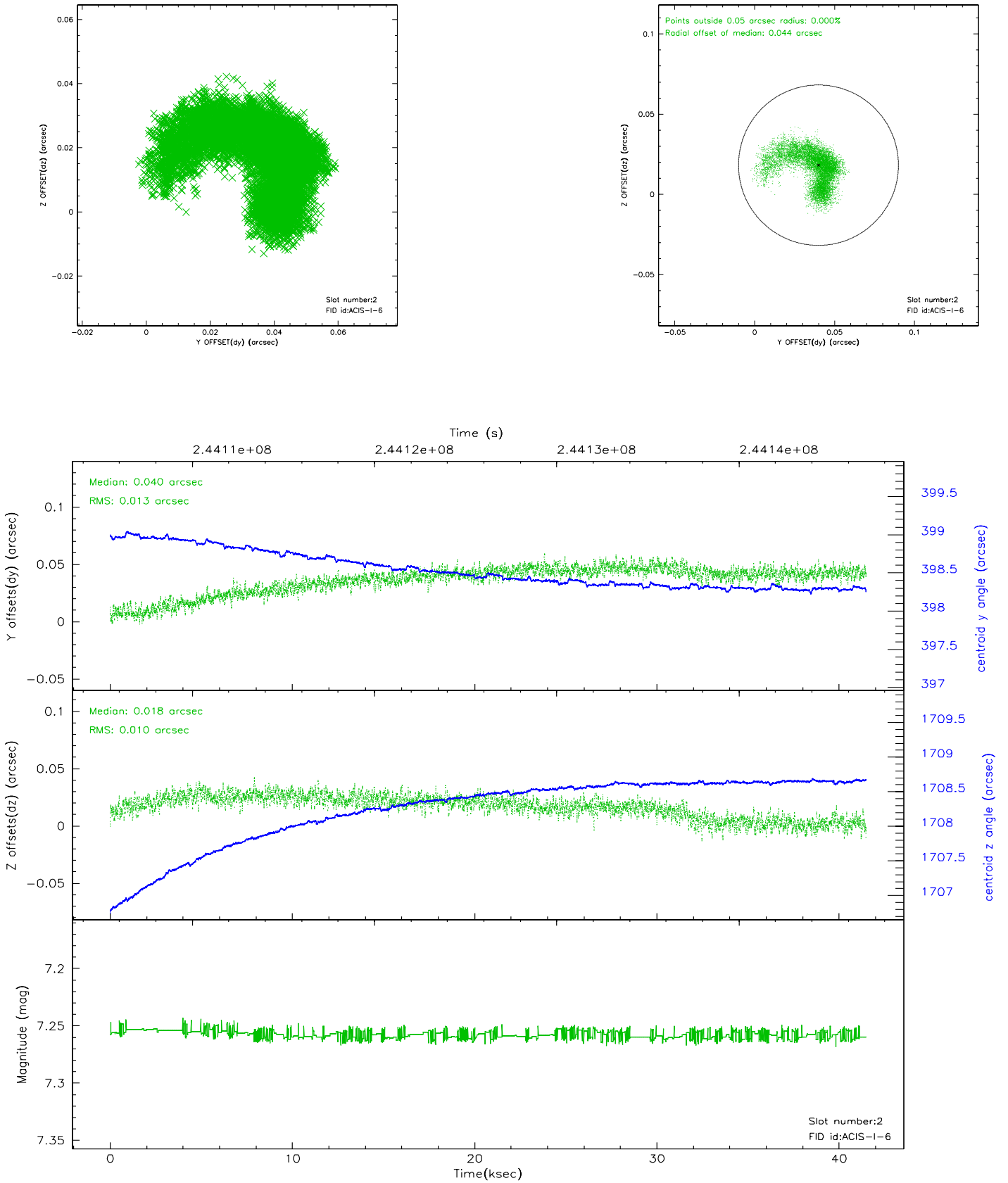
2.5.1 Slot 0



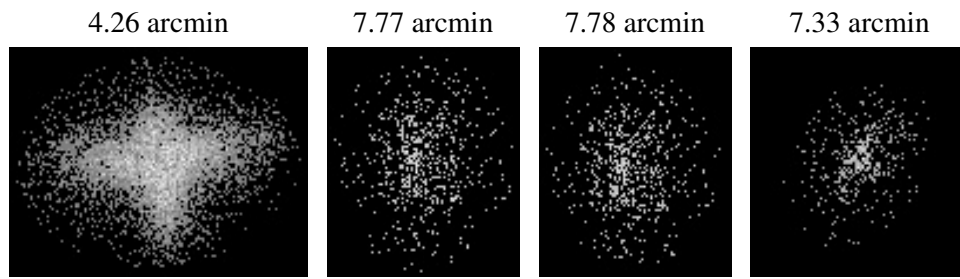
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.48791

A.2 Comments

Roll preference met.

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. GOs should subtract 1.3 degrees from the reported temperature to determine the true temperature. In addition the FP temperature was not regulating during this period. The FP temperature fluctuated between -121.3 C and -118.8 C during this time. For analysis of line-dominated spectra from the FI CCDs, GOs might notice a systematic gain shift by up to 0.5%, either towards higher/lower energies depending on if the FP temperature was colder/warmer than -119.7 C. Analysis of line-dominated spectra on S3 are mostly unaffected (where mostly unaffected means that the changes are smaller than the current uncertainties in the calibration). Analysis of continuum-dominated spectra on both the FI and BI CCDs are mostly unaffected. Imaging analysis on both the FI and BI CCDs are mostly unaffected.