

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10968 - L2 Version 2
Chandra X-Ray Center

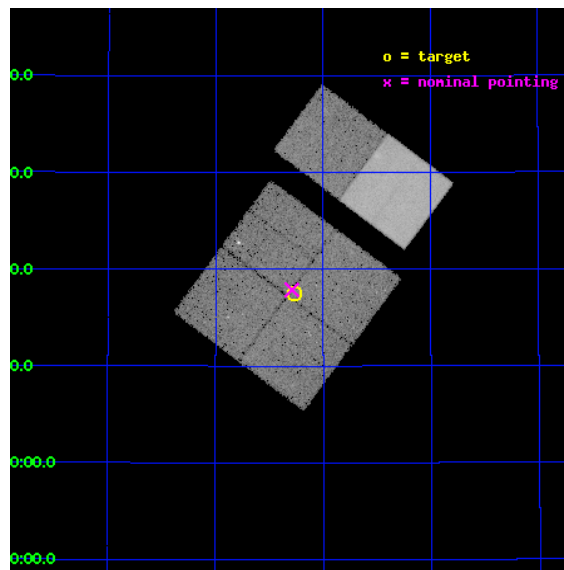
L2 Processing Date : Jun 22 2012

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1 Front

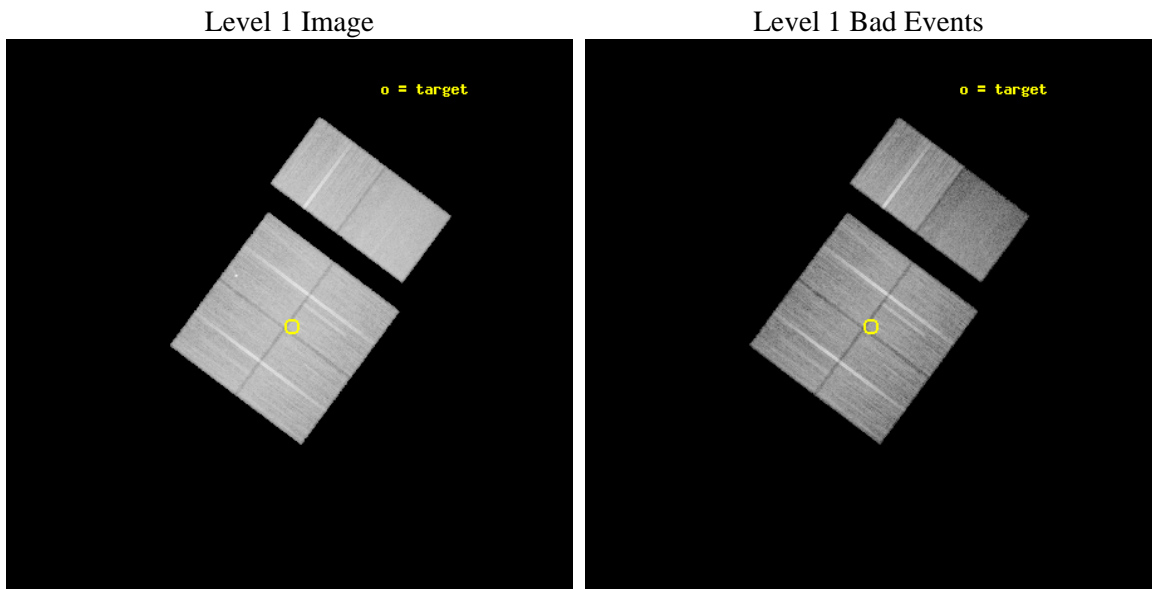
seq_num	200600	Sequence number
obs_id	10968	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.816453	Observer's specified target RA [deg]
dec_targ	41.291483	Observer's specified target Dec [deg]
ra_nom	308.82276039488	Nominal RA [deg]
dec_nom	41.298007179878	Nominal Dec [deg]
roll_nom	36.704519585044	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29254.358900905	Sum of GTIs [s]
livetime	28883.922593641	Livetime [s]
ontime0	29257.599891067	Sum of GTIs [s]
ontime1	29257.599891067	Sum of GTIs [s]
ontime2	29254.358900845	Sum of GTIs [s]
ontime3	29254.358900905	Sum of GTIs [s]
ontime6	29251.118079901	Sum of GTIs [s]
ontime7	29257.599891067	Sum of GTIs [s]
l2events	210752	Number of level 2 events



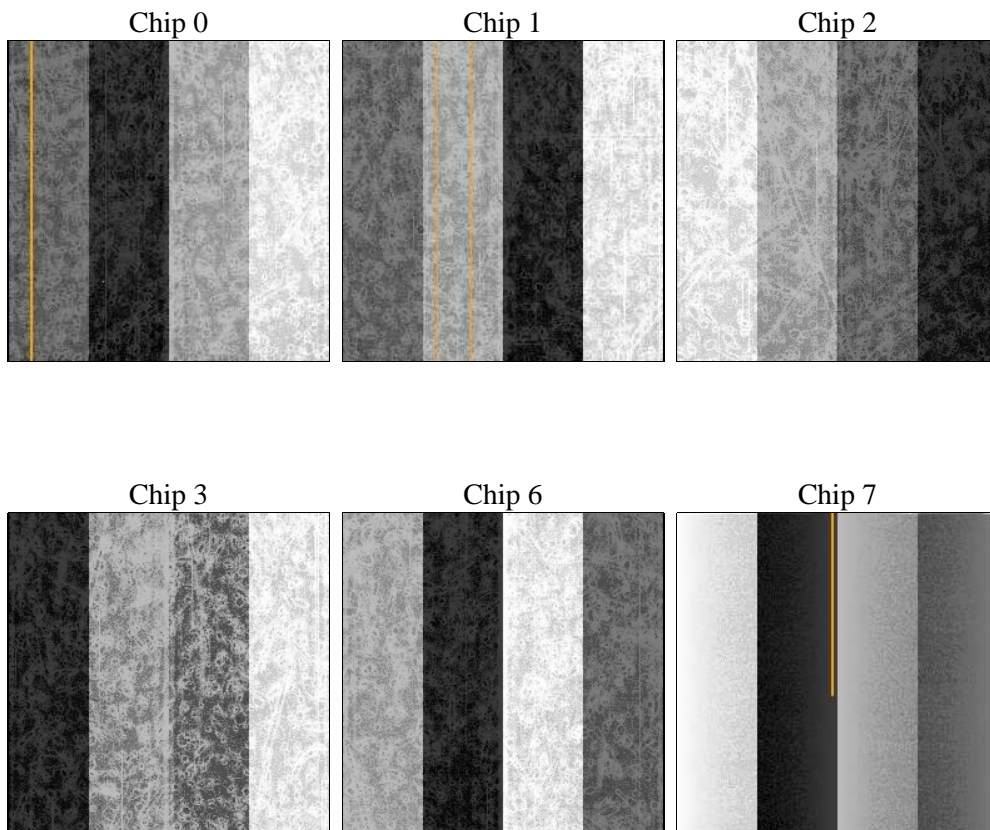
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	29254.358900905	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	29257.599891067	Sum of GTIs [s]
date	2012-06-22T04:30:05	Date and time of file creation	ontime1	29257.599891067	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	29254.358900845	Sum of GTIs [s]
			ontime3	29254.358900905	Sum of GTIs [s]
			ontime6	29251.118079901	Sum of GTIs [s]
			ontime7	29257.599891067	Sum of GTIs [s]
			l1events	1320604	Number of level 1 events

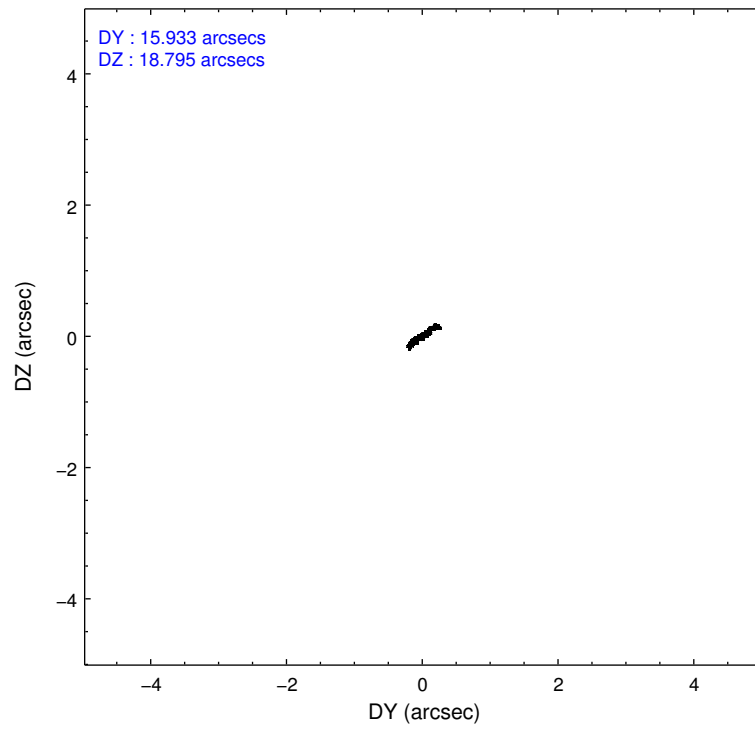
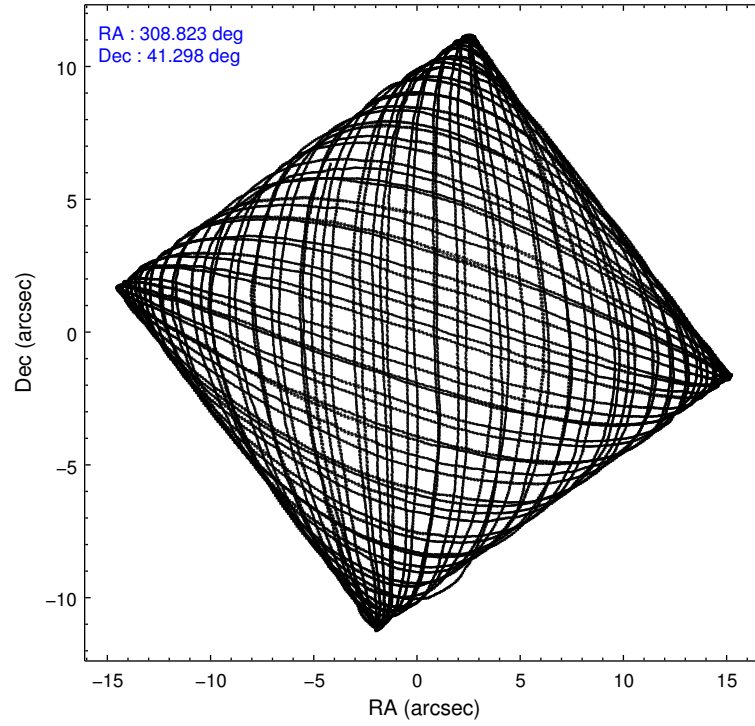
2.1.4 Events

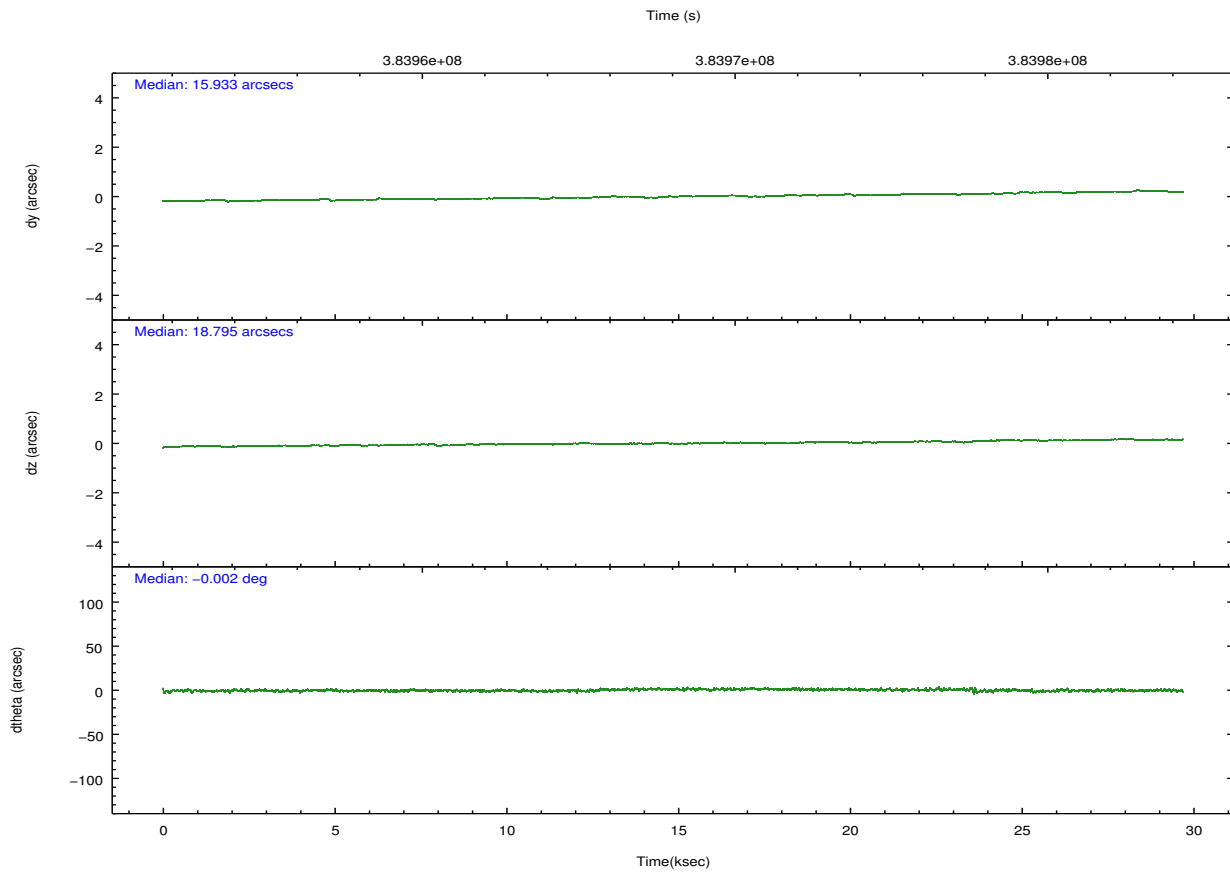
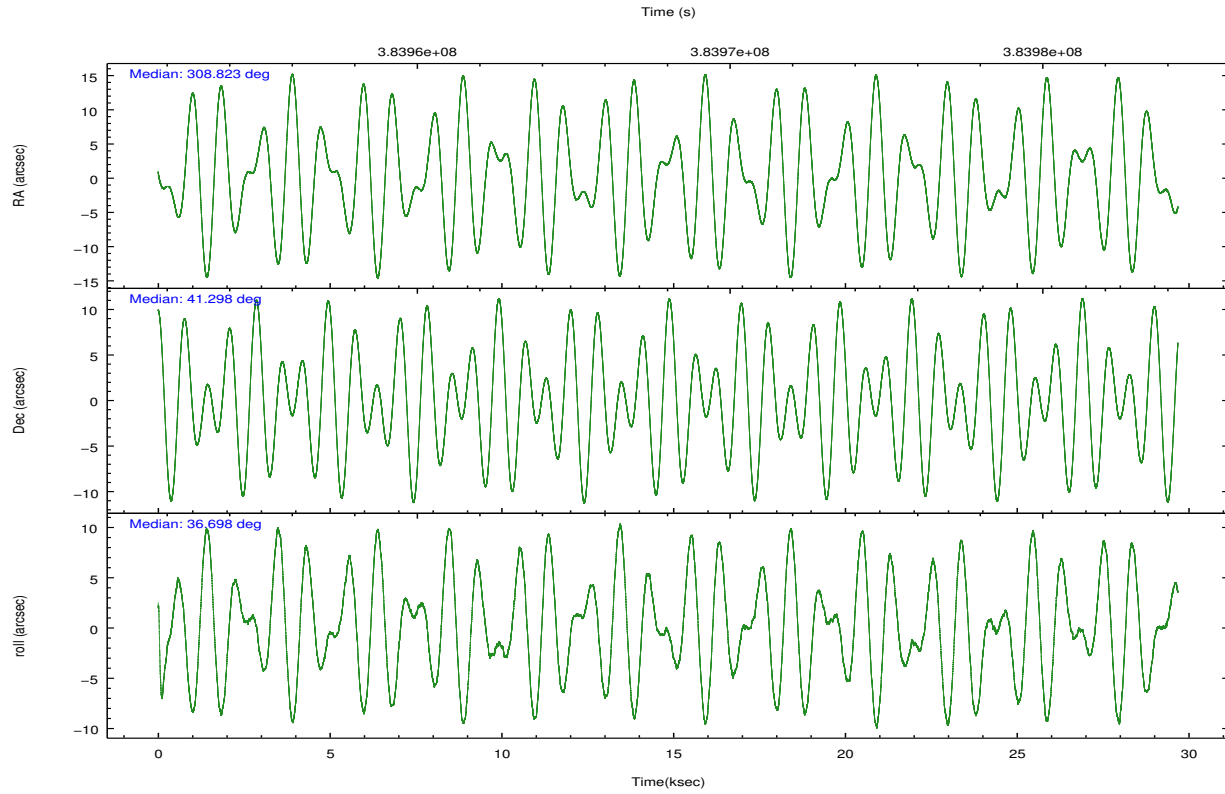
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	205182	207474	230150	220412	230323	227063	grade 0 events	8952	9039	9948	9046	9786	11589
rejected events	181230	182569	205406	197220	204599	114520		4%	4%	4%	4%	4%	5%
rejected %	88%	87%	89%	89%	88%	50%	grade 1 events	120	115	144	133	132	385
								0%	0%	0%	0%	0%	0%
							grade 2 events	5801	5660	5910	5018	5720	24353
								2%	2%	2%	2%	2%	10%
							grade 3 events	2536	2672	2424	2402	2675	10428
								1%	1%	1%	1%	1%	4%
							grade 4 events	2431	2703	2403	2408	2476	10328
								1%	1%	1%	1%	1%	4%
							grade 5 events	7022	7619	6769	8076	8504	24171
								3%	3%	2%	3%	3%	10%
							grade 6 events	4234	4833	4064	4321	5070	55858
								2%	2%	1%	1%	2%	24%
							grade 7 events	174086	174833	198488	189008	195960	89951
								84%	84%	86%	85%	85%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	308.808451	308.8227603948801	CCD I2 on	Y	Y
[deg] Pointing Dec	41.272719	41.29800717987833	CCD I3 on	Y	Y
[deg] Pointing Roll	36.505279	36.70451958504383	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	383953361.184000	383952985.20318	CCD S5 on	N	N
Observation start date	2010-03-02T21:41:35	2010-03-02T21:36:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	383982861.184000	383983039.74221	On-chip summing requested	N	N
Observation end date	2010-03-03T05:53:15	2010-03-03T05:57:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



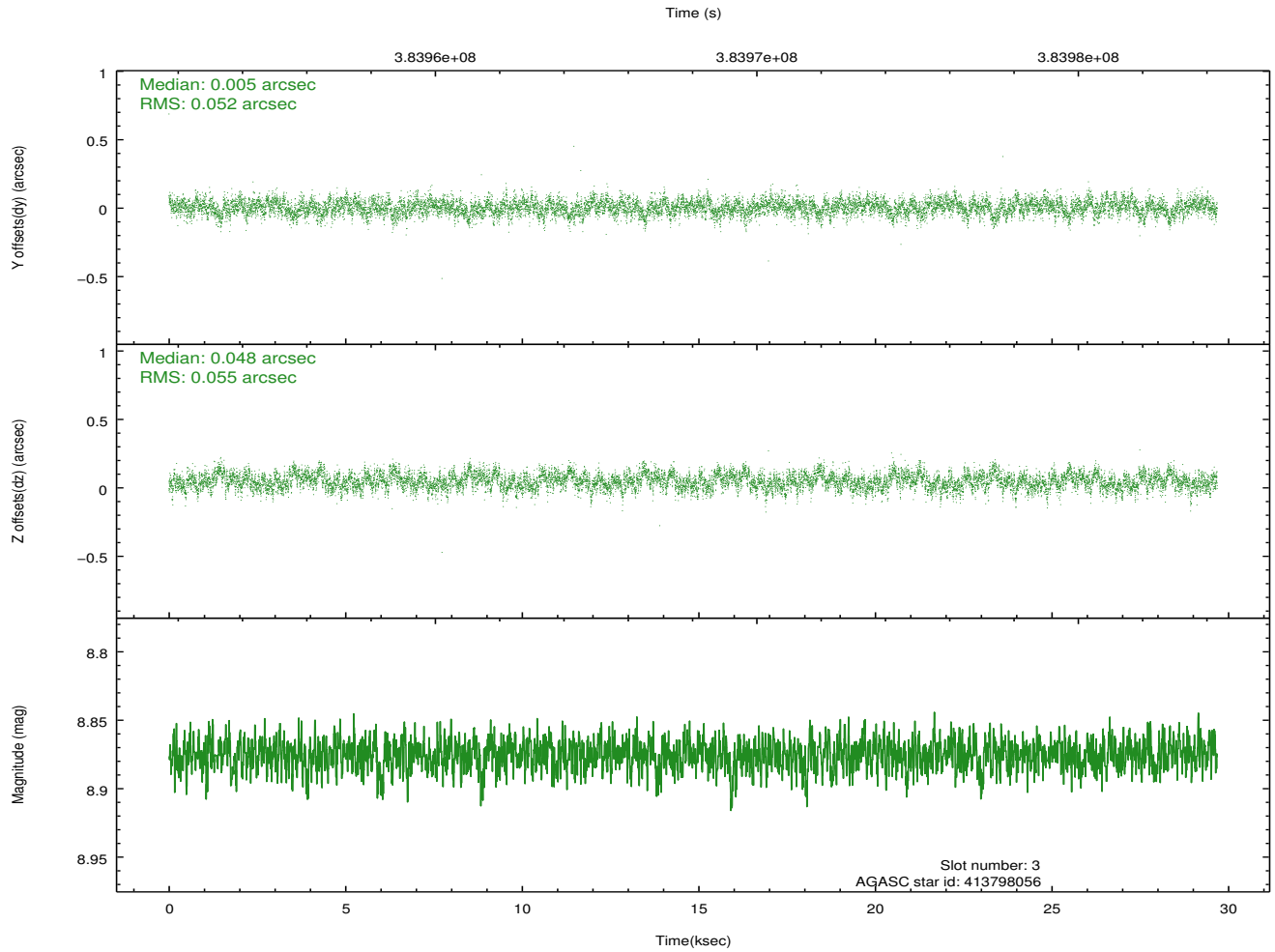
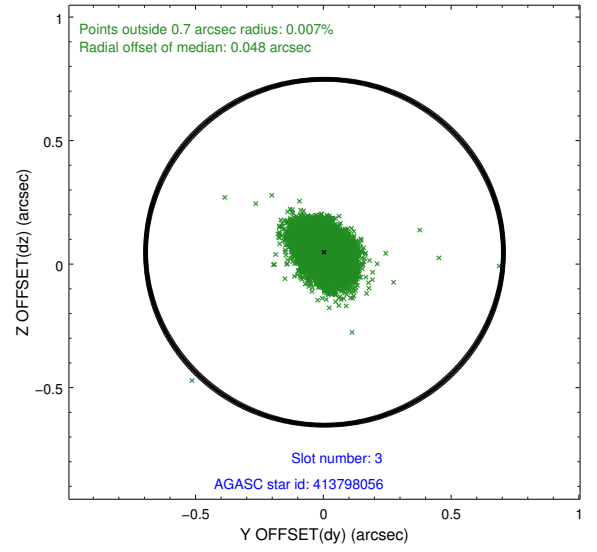
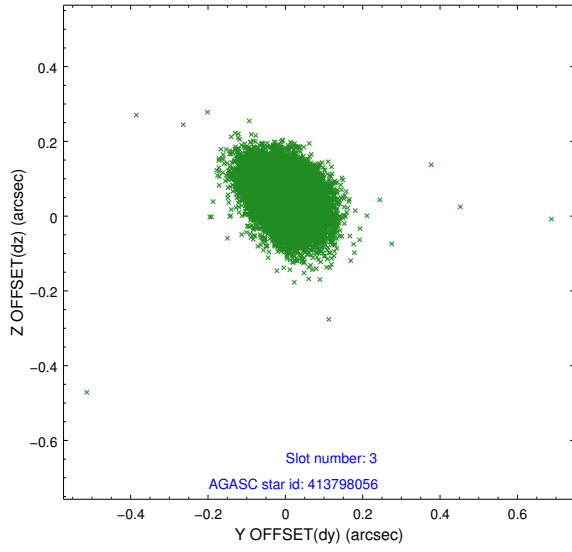


Slot Statistics

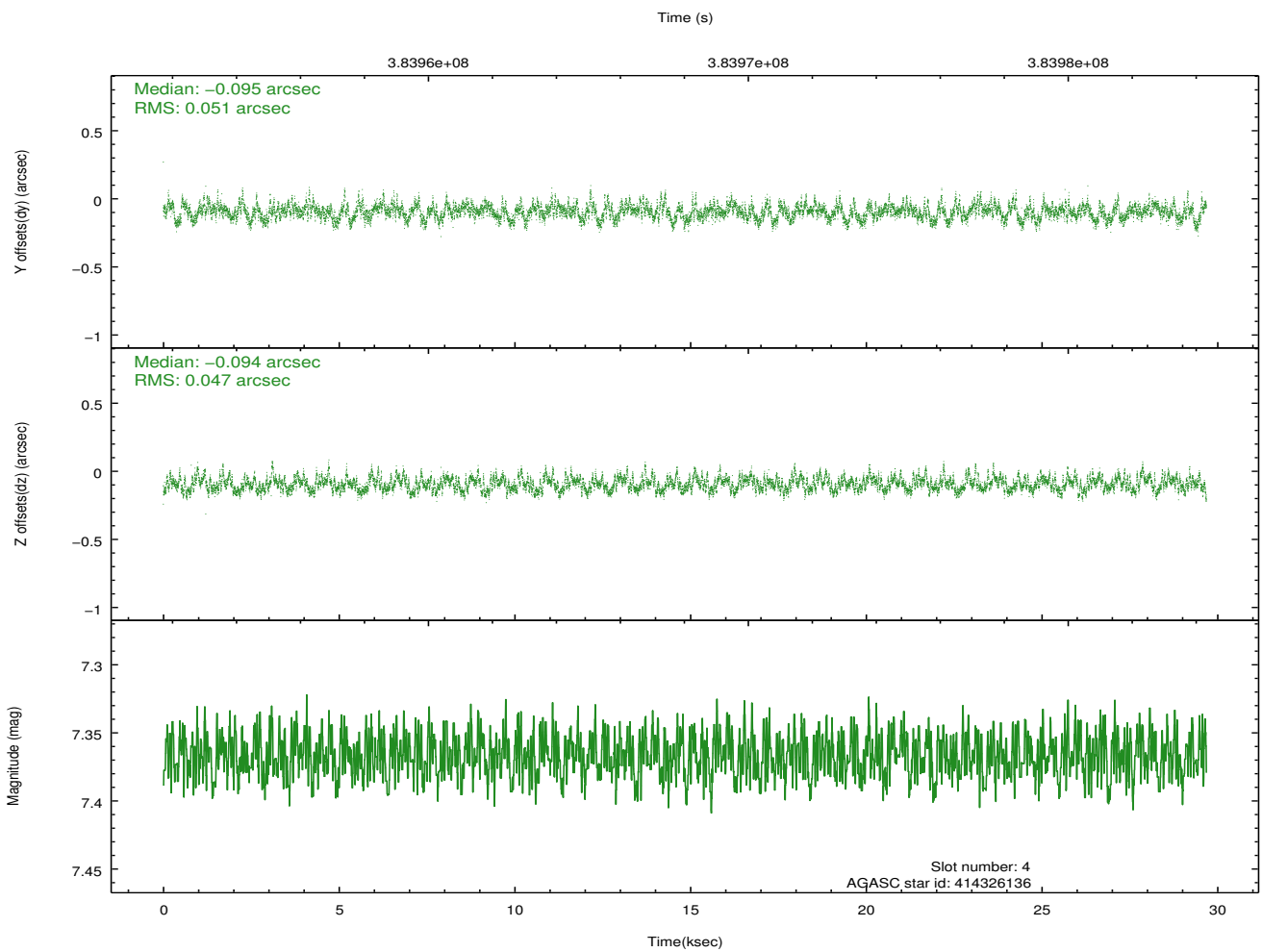
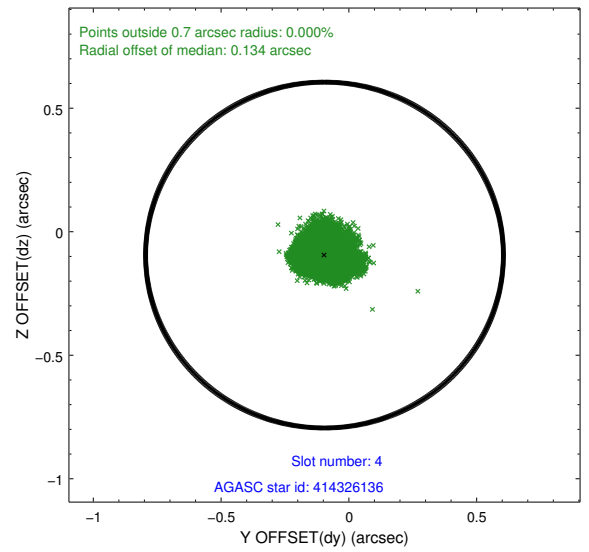
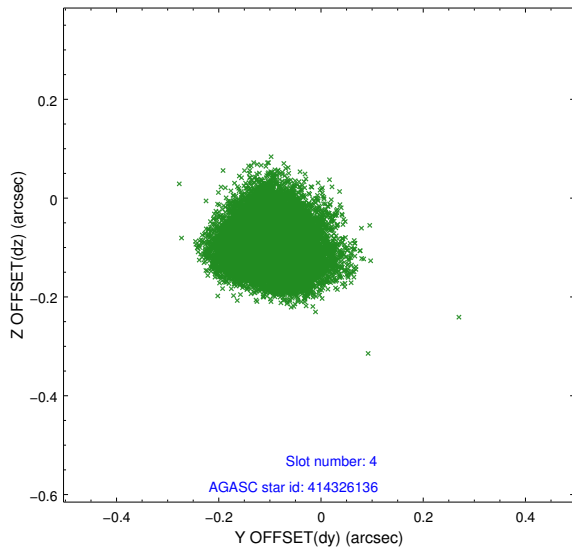
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	7239	-0.059	0.040	0.010	0.018	0.000000	0.000000	923.44	-842.46
1	FID	ACIS-I-2	6.92	7240	-0.119	-0.062	0.009	0.014	0.000000	0.000000	-770.67	-849.04
2	FID	ACIS-I-4	6.94	7240	0.080	0.088	0.009	0.014	0.000000	0.000000	2143.43	1057.35
3	GUIDE	413798056	8.88	14474	0.005	0.048	0.079	0.131	309.494500	41.155486	1248.34	-1439.47
4	GUIDE	414326136	7.37	14481	-0.095	-0.094	0.076	0.117	308.256176	41.473642	-763.85	1471.38
5	GUIDE	414327224	7.98	14478	0.046	0.010	0.057	0.093	309.355439	41.393115	1448.68	-526.20
6	GUIDE	413803744	8.84	14475	0.098	0.210	0.078	0.124	308.586342	40.704904	-1701.98	-1281.79
7	GUIDE	414324232	8.30	14470	-0.052	-0.170	0.073	0.124	308.637806	41.996627	1183.41	2366.68

2.4 Star Slots

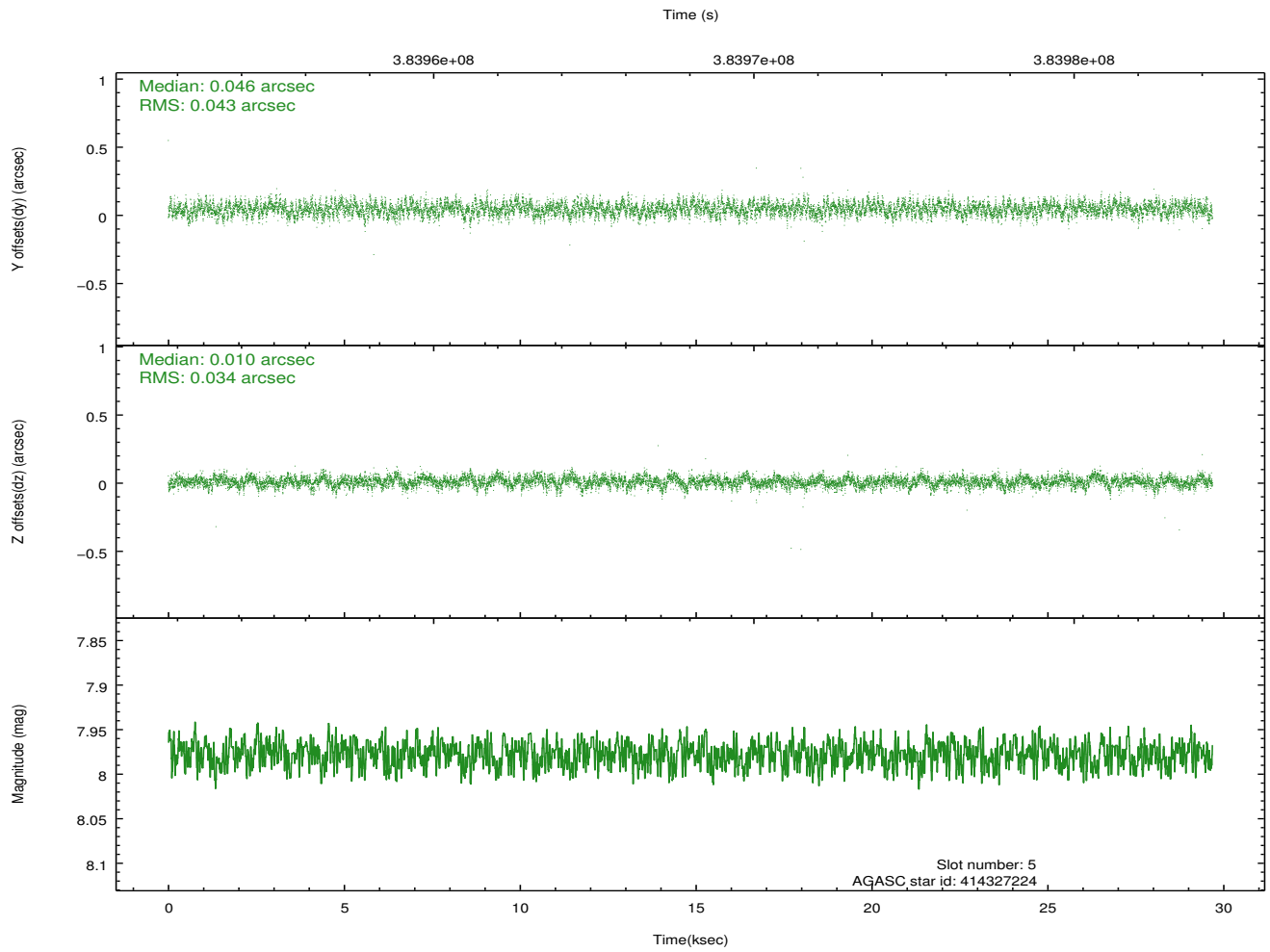
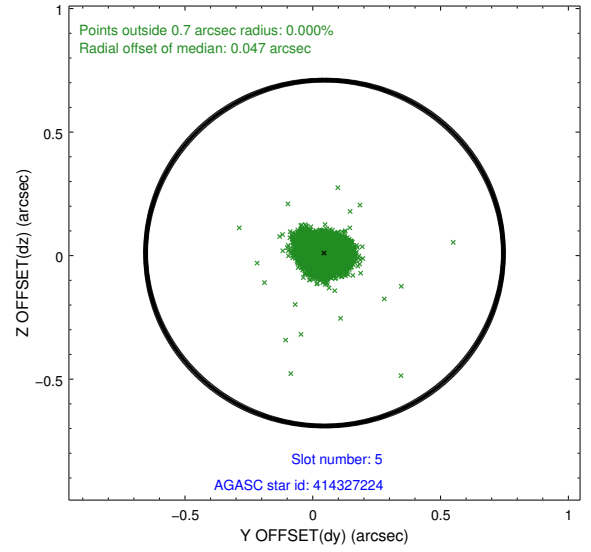
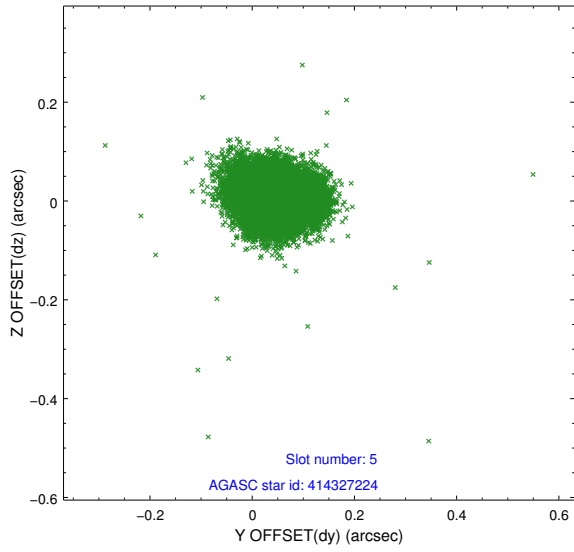
2.4.1 Slot 3



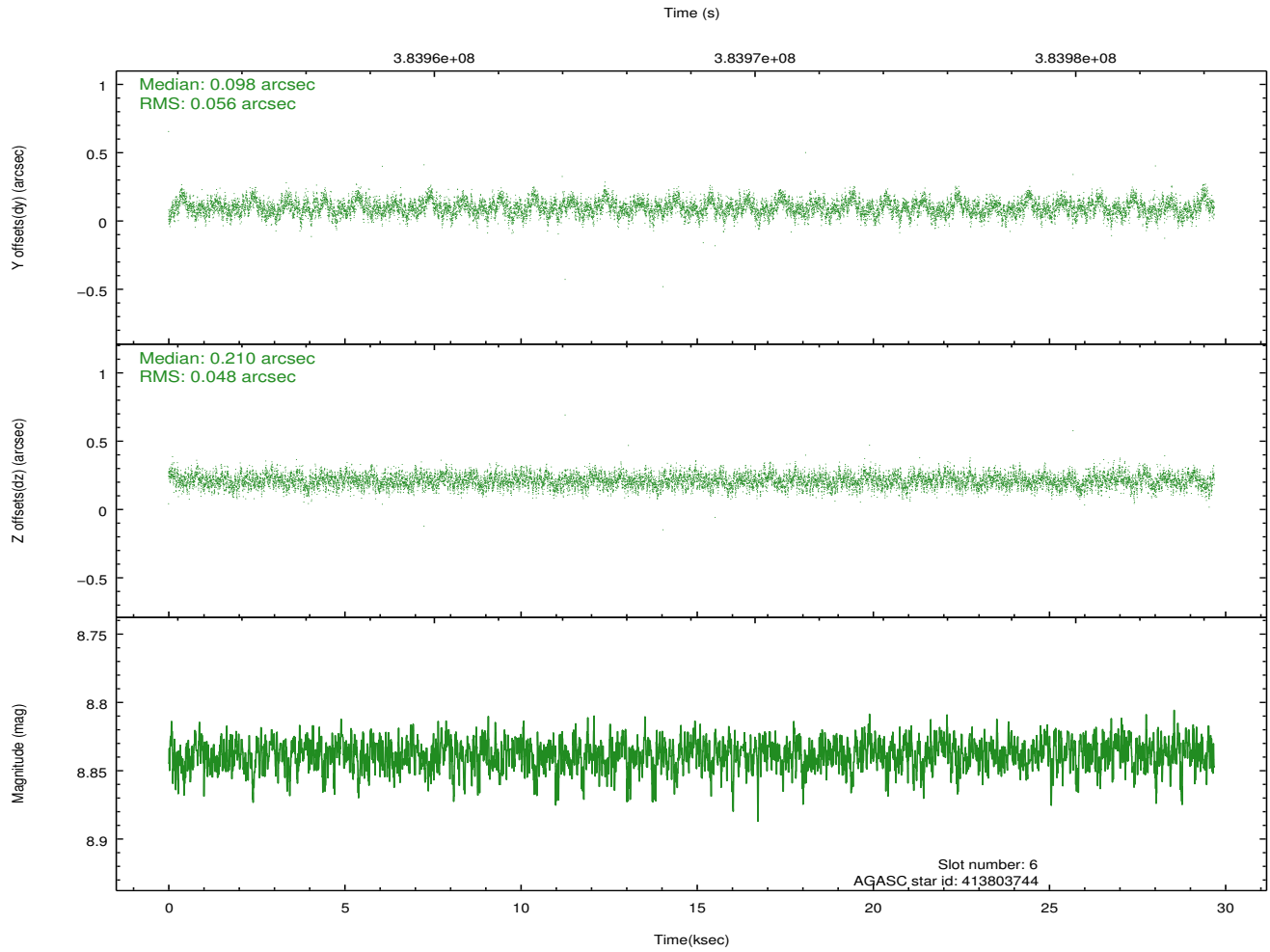
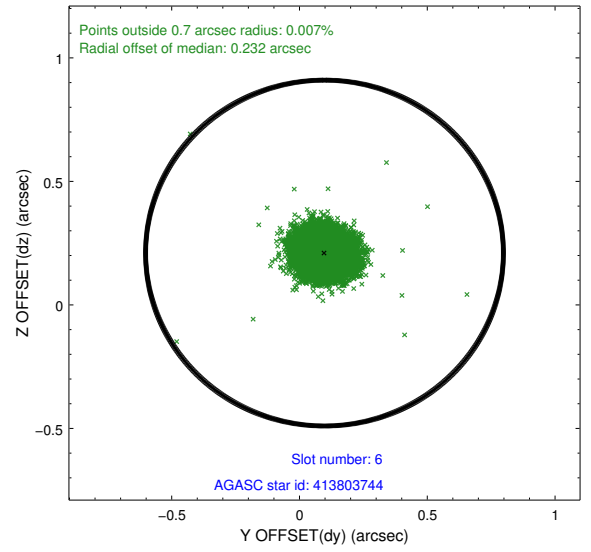
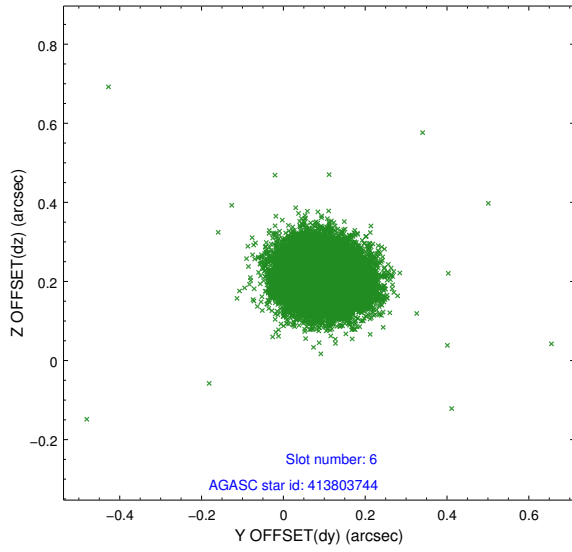
2.4.2 Slot 4



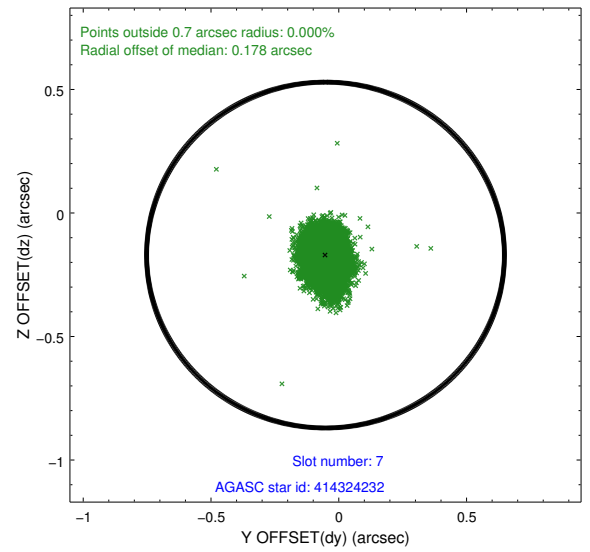
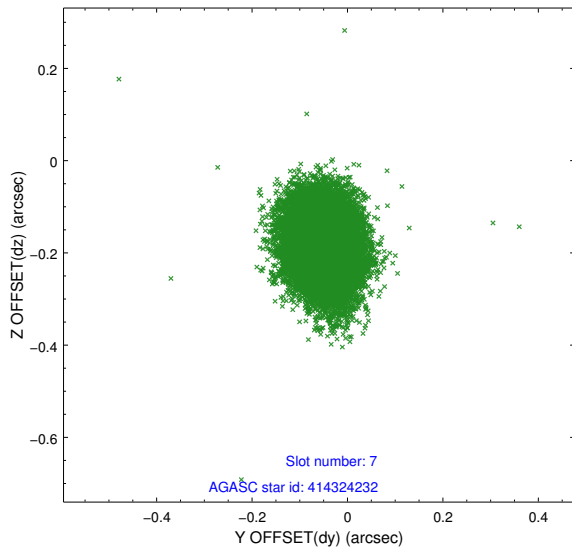
2.4.3 Slot 5



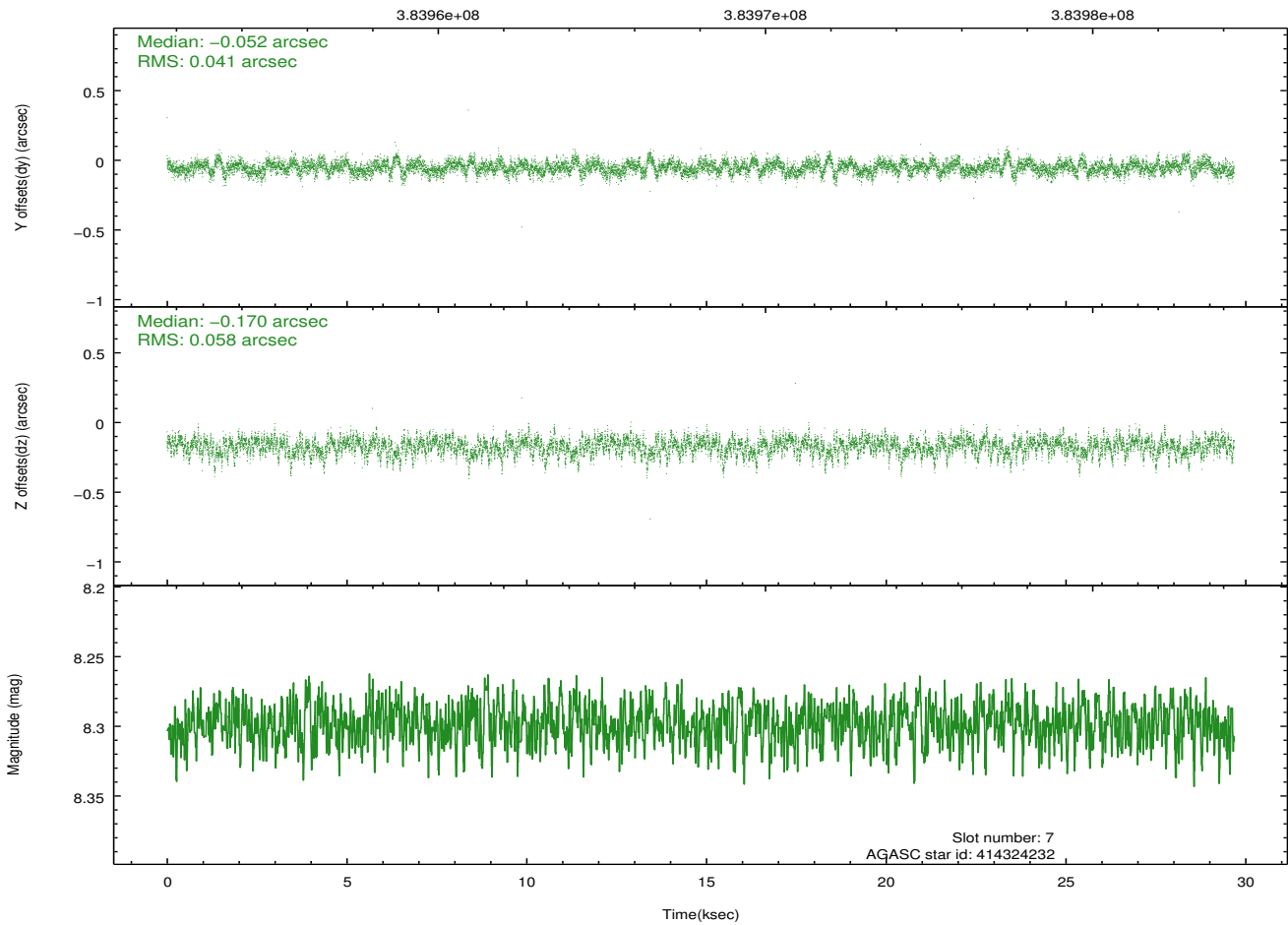
2.4.4 Slot 6



2.4.5 Slot 7

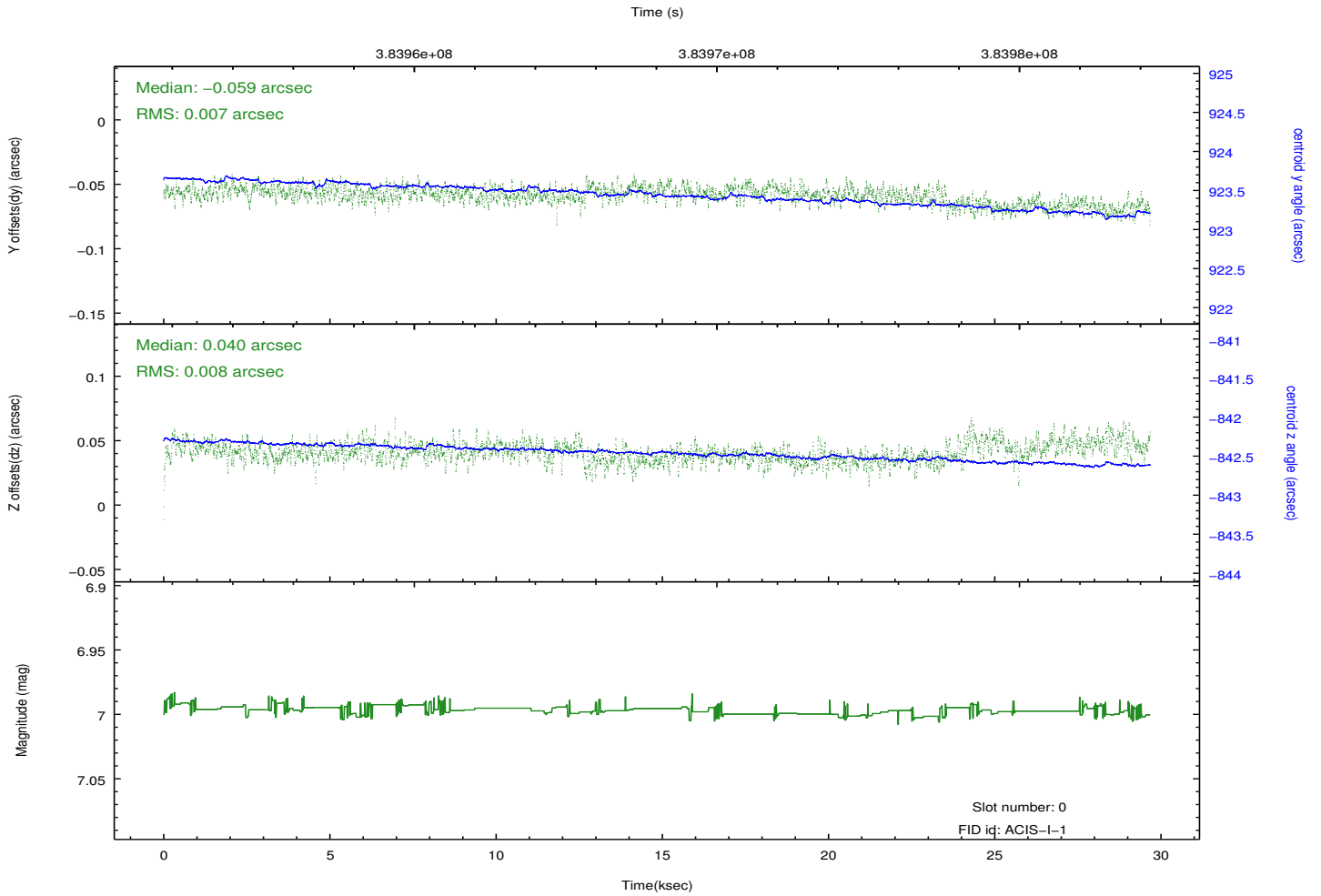
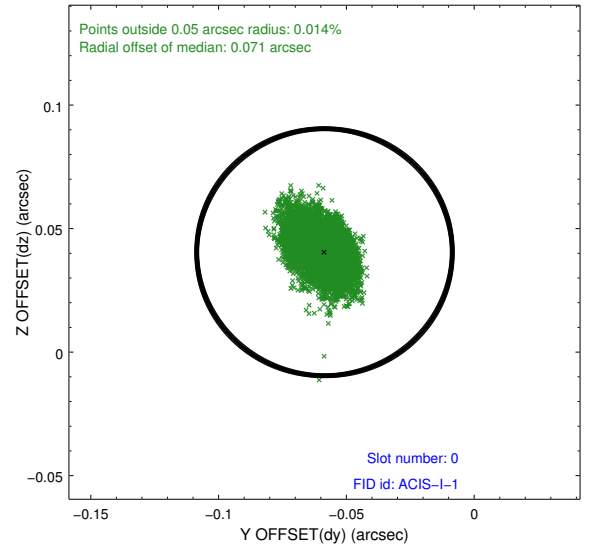
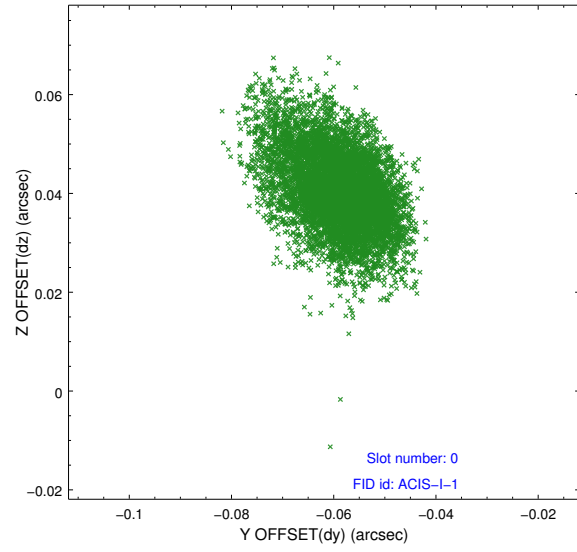


Time (s)

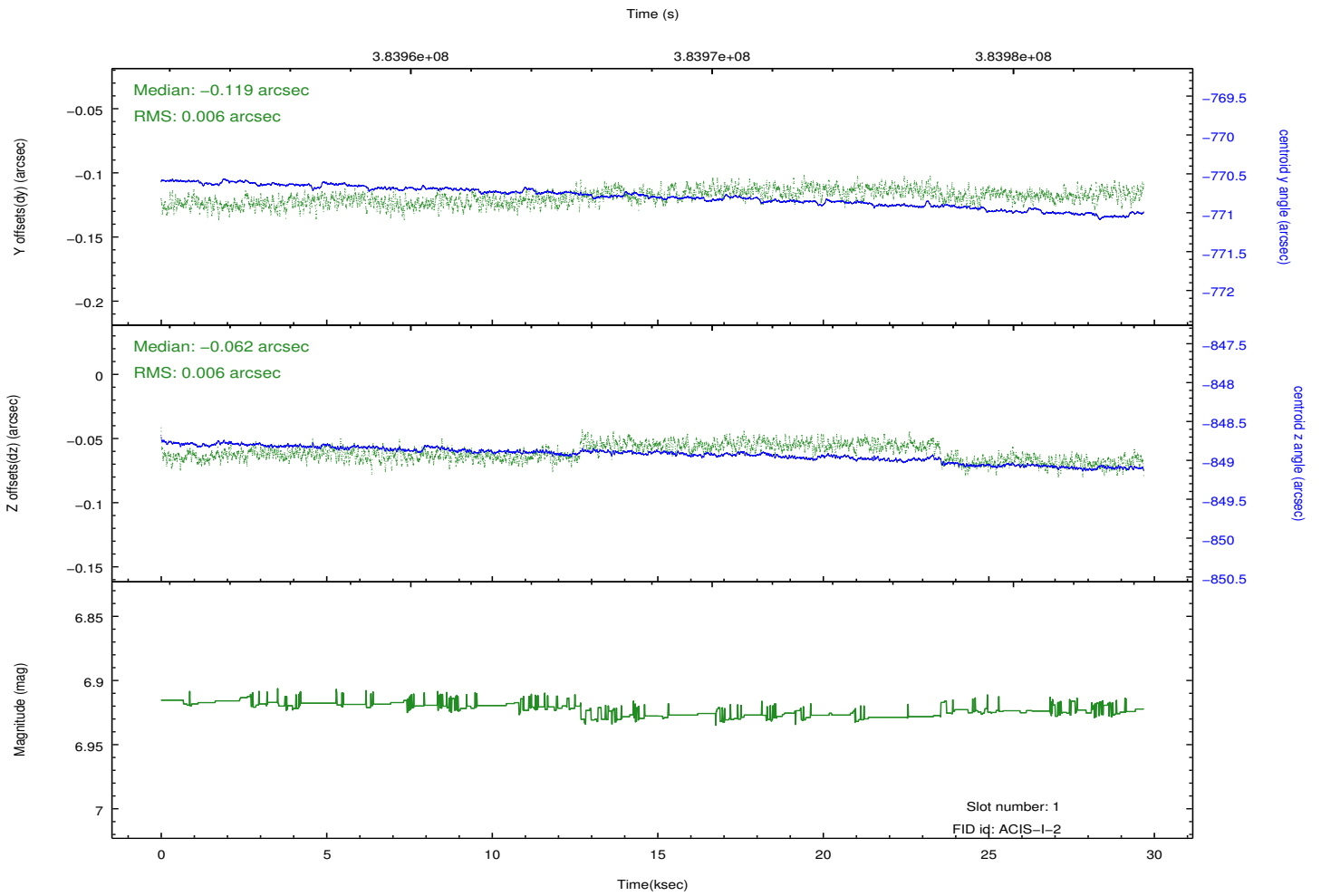
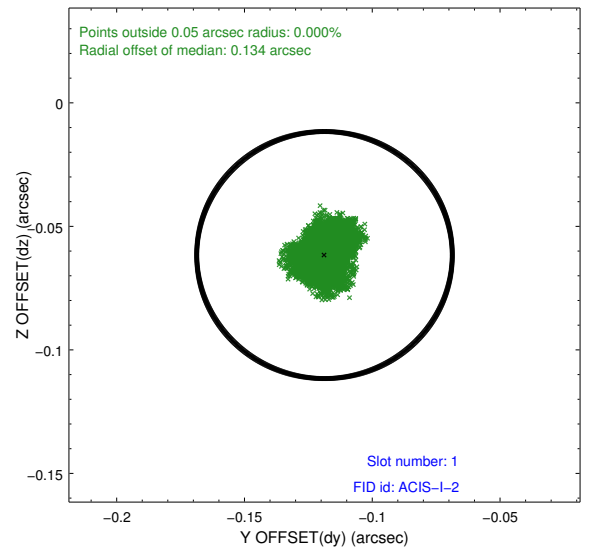
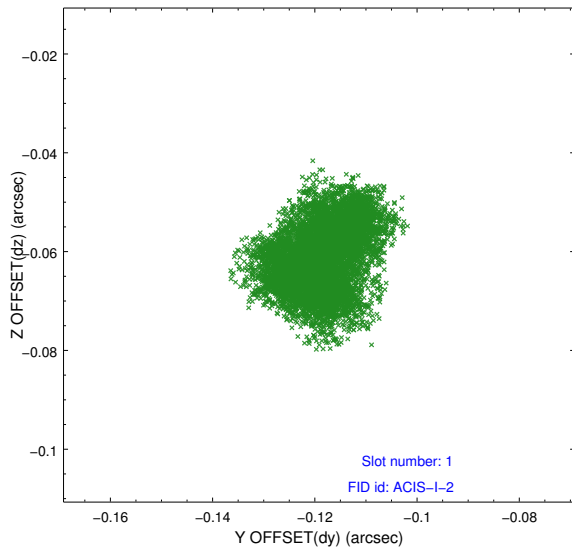


2.5 FID Slots

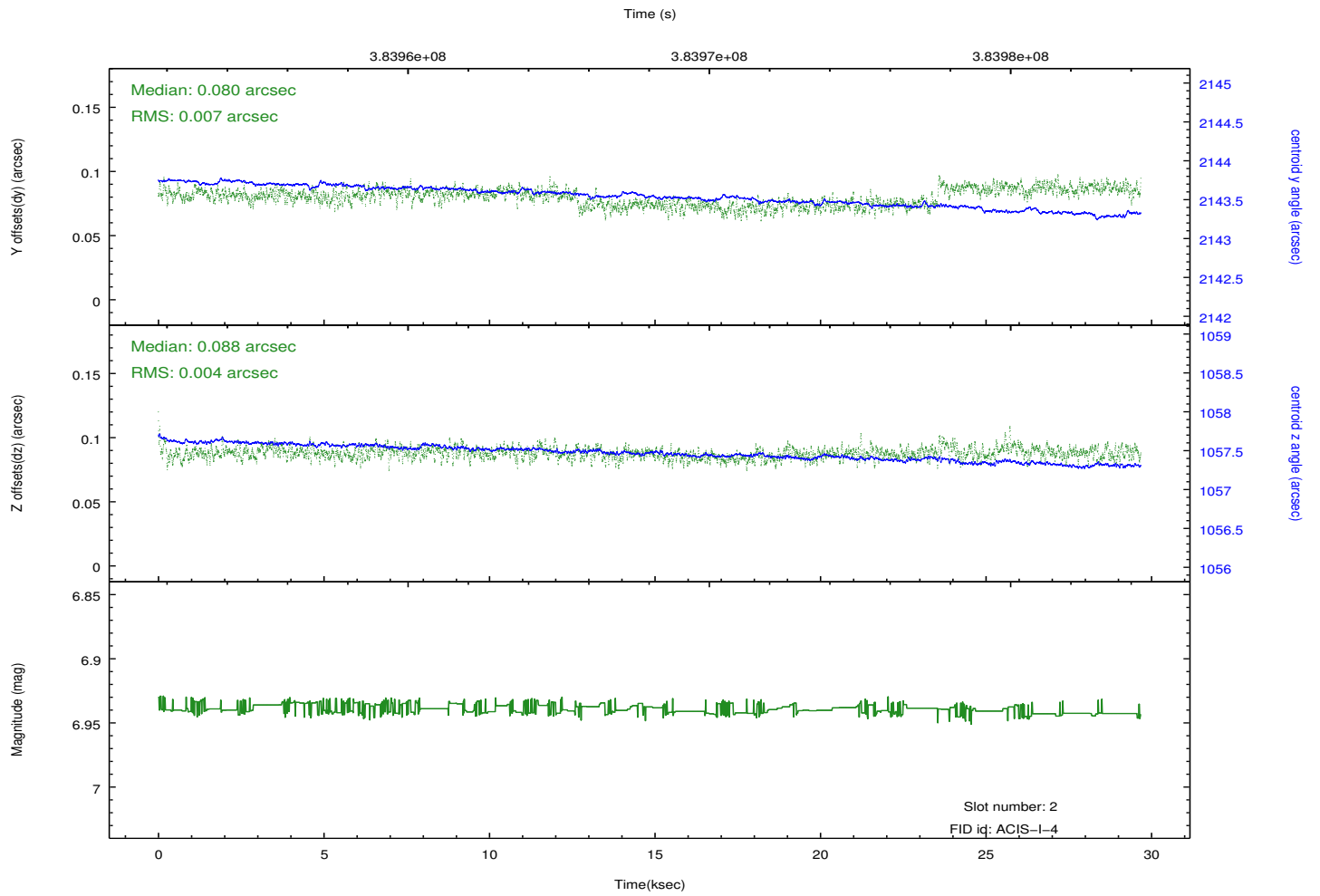
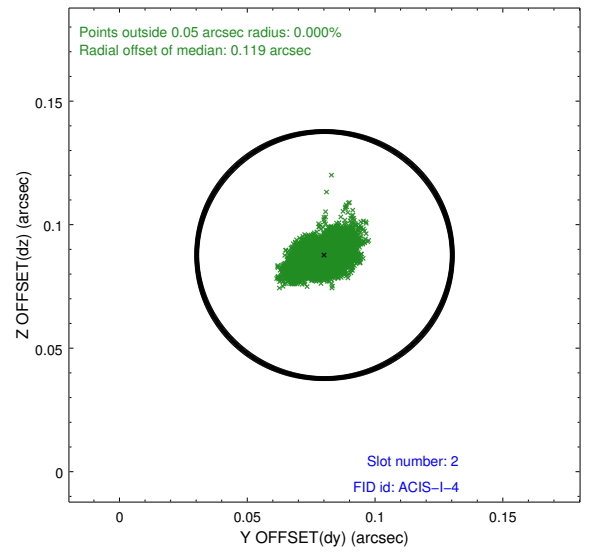
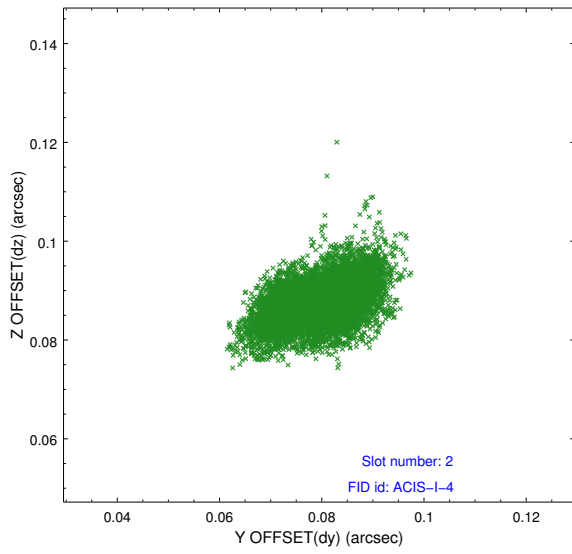
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.254358900905

A.2 Comments

Roll preference met.