

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2982 - L2 Version 4
Chandra X-Ray Center

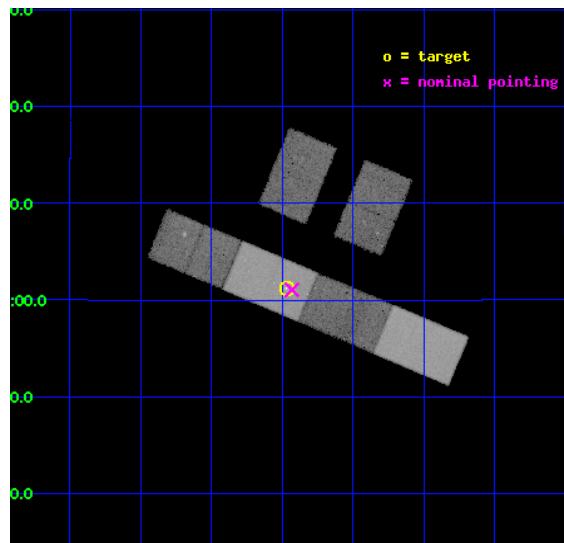
L2 Processing Date : Oct 4 2012

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1 Front

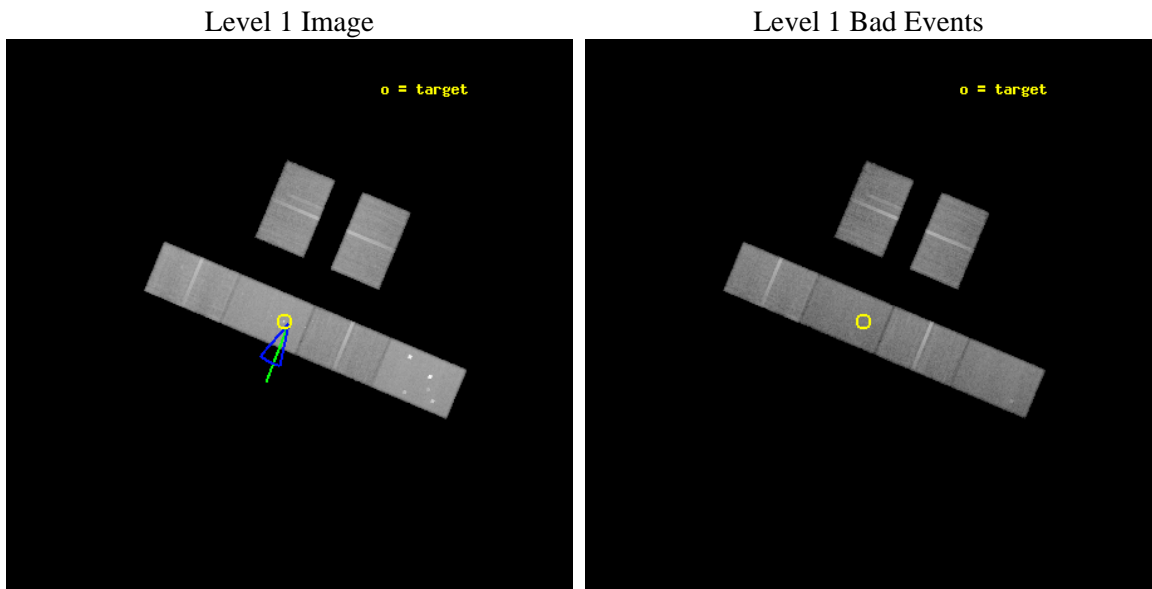
seq_num	700421	Sequence number
obs_id	2982	Observation id
title	HOT GAS, STAR FORMATION, AND NUCLEAR ACTIVITY IN THE PECULIAR LOW LUMINOSITY RADIO GALAXY NGC 4410A	Proposal title
observer	Professor Beverly Smith	Principal investigator
object	NGC 4410A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.6175	Observer's specified target RA [deg]
dec_targ	9.019667	Observer's specified target Dec [deg]
ra_nom	186.60792098577	Nominal RA [deg]
dec_nom	9.0175547095262	Nominal Dec [deg]
roll_nom	202.73967741146	Nominal Roll [deg]
revision	4	Processing version of data
ontime	38609.808482766	Sum of GTIs [s]
livetime	37869.725840624	Livetime [s]
ontime2	38607.708532631	Sum of GTIs [s]
ontime3	38605.403352559	Sum of GTIs [s]
ontime5	38609.767442763	Sum of GTIs [s]
ontime6	38607.585412621	Sum of GTIs [s]
ontime7	38609.808482766	Sum of GTIs [s]
ontime8	38609.644322783	Sum of GTIs [s]
l2events	268271	Number of level 2 events



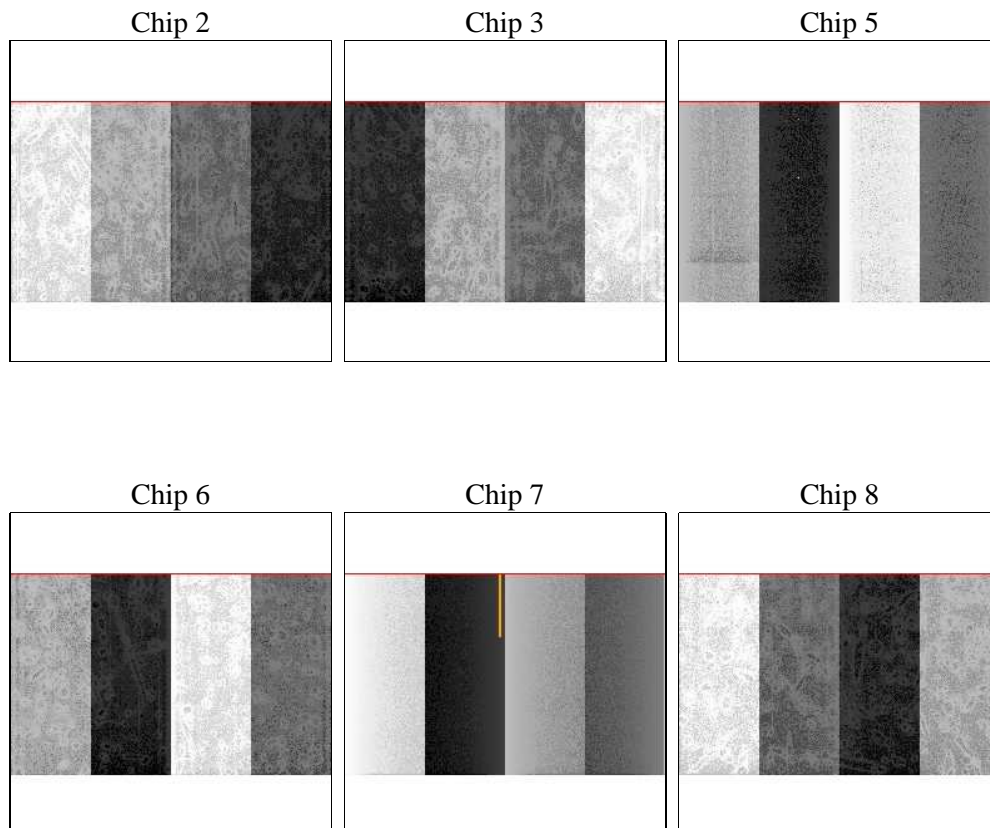
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	38300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	38609.808482766	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	38607.708532631	Sum of GTIs [s]
date	2012-10-04T19:38:01	Date and time of file creation	ontime3	38605.403352559	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	38609.767442763	Sum of GTIs [s]
			ontime6	38607.585412621	Sum of GTIs [s]
			ontime7	38609.808482766	Sum of GTIs [s]
			ontime8	38609.644322783	Sum of GTIs [s]
			l1events	1196145	Number of level 1 events

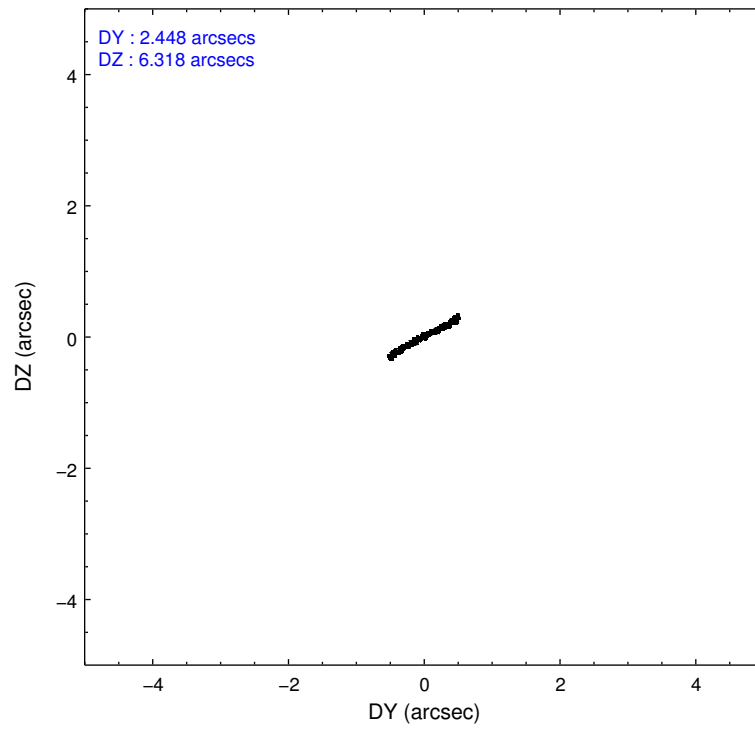
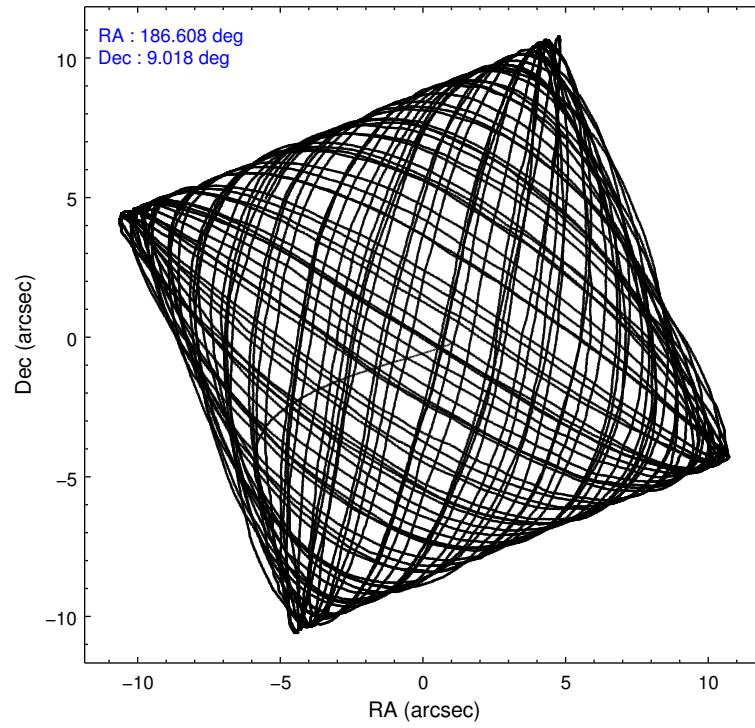
2.1.4 Events

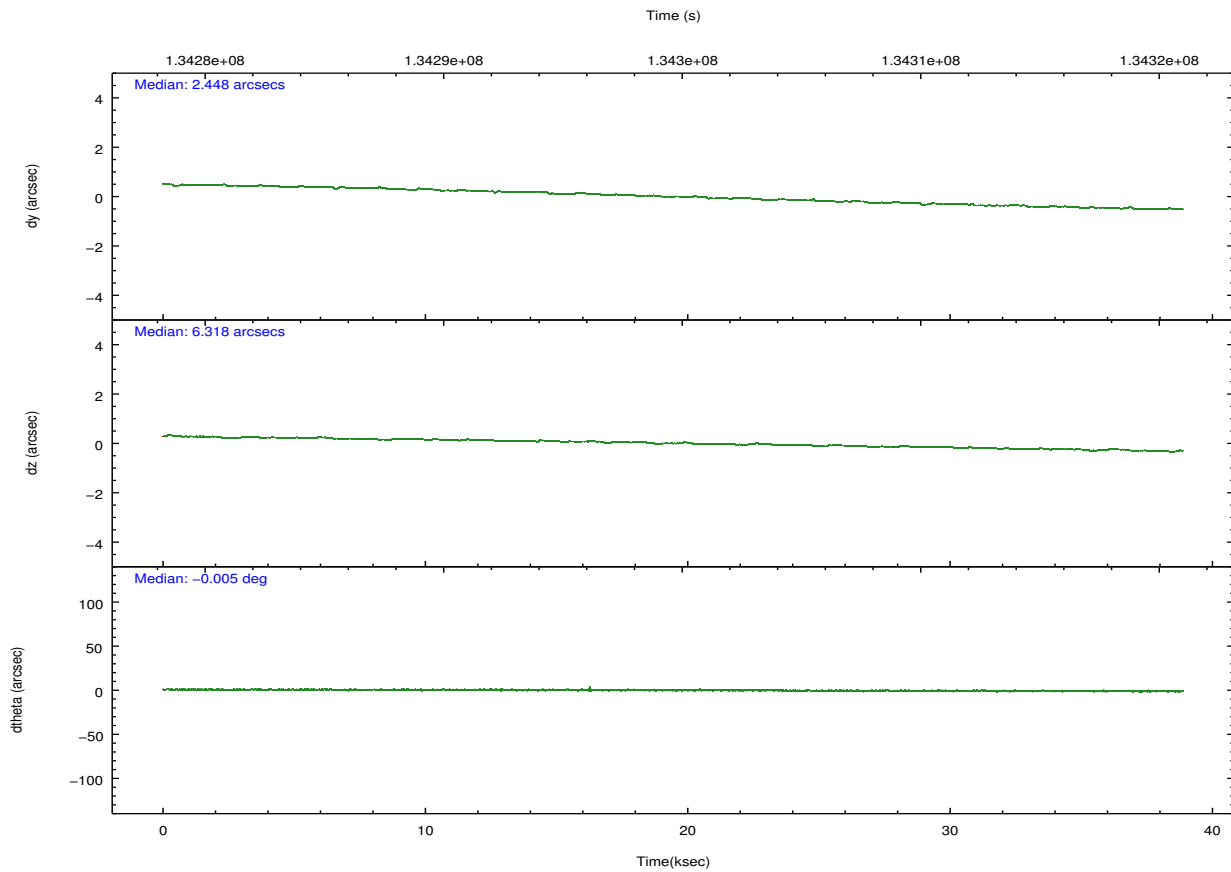
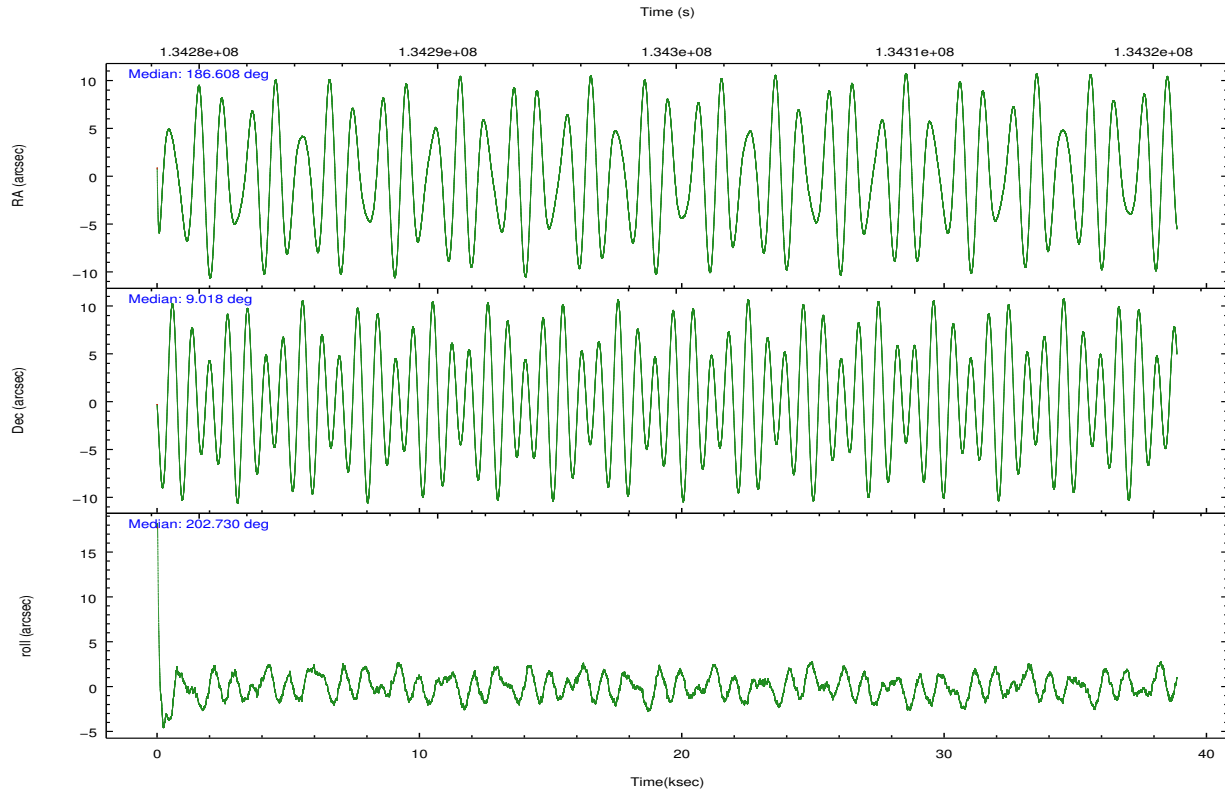
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	174951	160889	262892	167620	215629	214164	grade 0 events	9089	8871	39232	8957	10572	14915
rejected events	154078	140957	124776	146536	120502	169767		5%	5%	14%	5%	4%	6%
rejected %	88%	87%	47%	87%	55%	79%	grade 1 events	58	70	372	65	210	87
								0%	0%	0%	0%	0%	0%
							grade 2 events	4331	3764	33836	3972	19091	9124
								2%	2%	12%	2%	8%	4%
							grade 3 events	2005	1984	5593	2186	8924	4874
								1%	1%	2%	1%	4%	2%
							grade 4 events	2099	1973	4940	2139	8946	4568
								1%	1%	1%	1%	4%	2%
							grade 5 events	5869	6115	18315	6856	20004	8775
								3%	3%	6%	4%	9%	4%
							grade 6 events	3353	3343	54533	3834	47608	10924
								1%	2%	20%	2%	22%	5%
							grade 7 events	148147	134769	106071	139611	100274	160897
								84%	83%	40%	83%	46%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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
[deg] Pointing RA	186.624345	186.6079209857672	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	9.039443	9.017554709526186	Subarray start row	192	192
[deg] Pointing Roll	202.580464	202.7396774114601	Subarray row count	640	640
[deg] Roll angle	207.000000	207.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	15.000000	15.000000	[s] Primary exposure time	0.000000	2.1
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	134280751.184000	134279597.34933			
Observation start date	2002-04-04T04:11:27	2002-04-04T03:53:17			
[s] Observation end time (MET)	134319051.184000	134320113.55098			
Observation end date	2002-04-04T14:49:47	2002-04-04T15:08:33			
Read mode	TIMED	TIMED			

2.3 Aspect



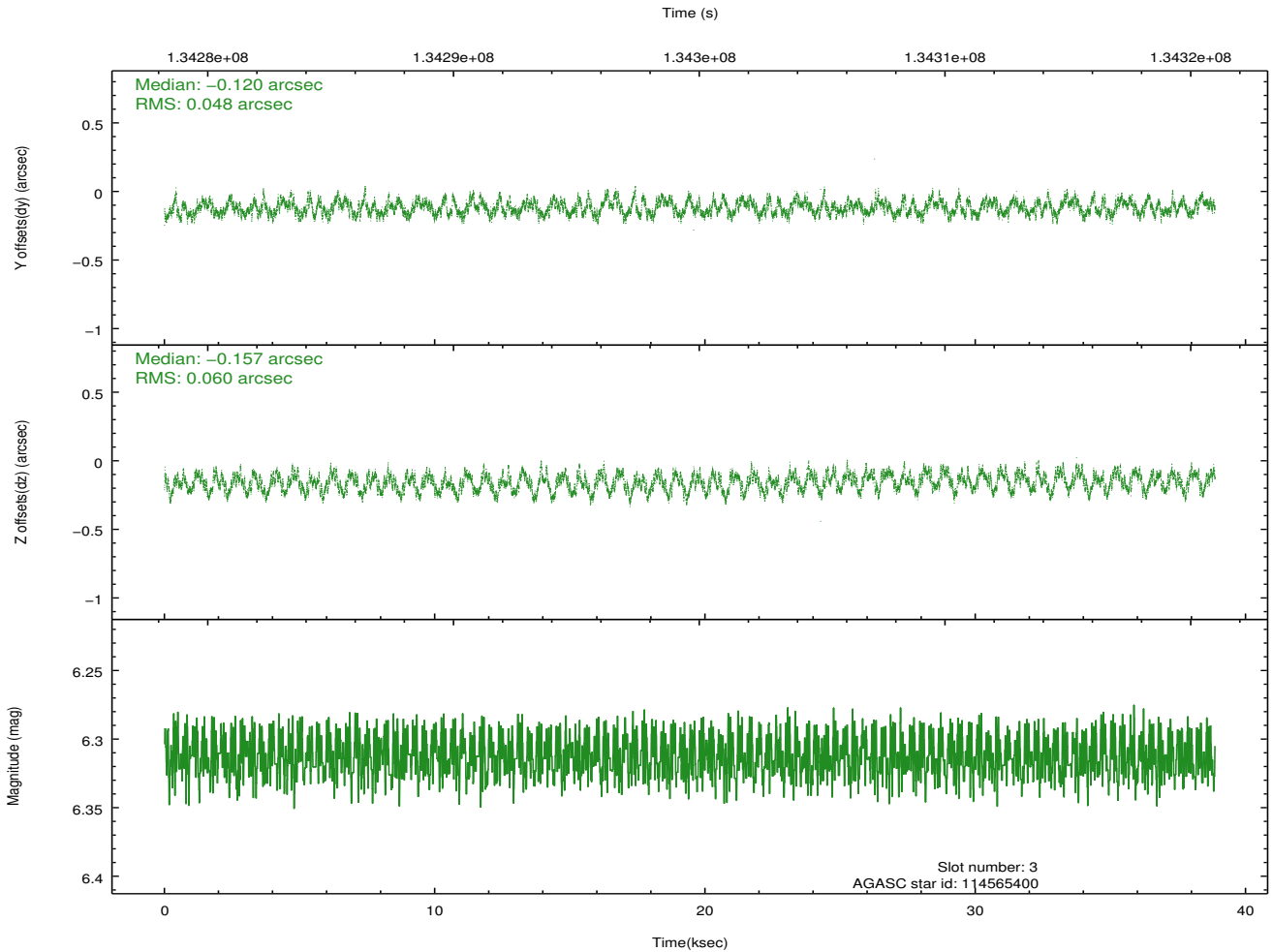
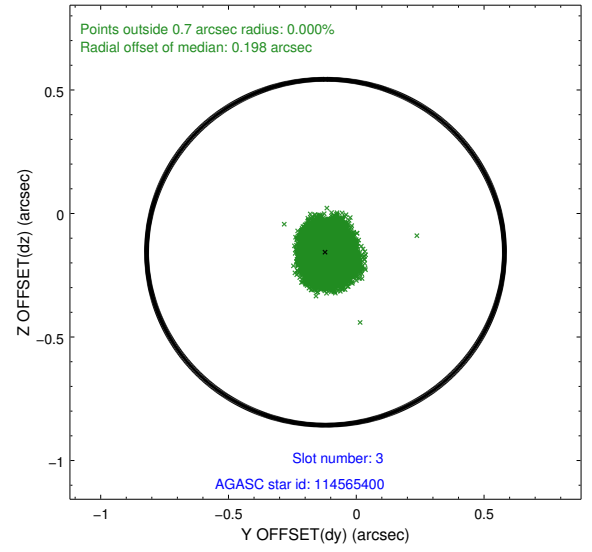
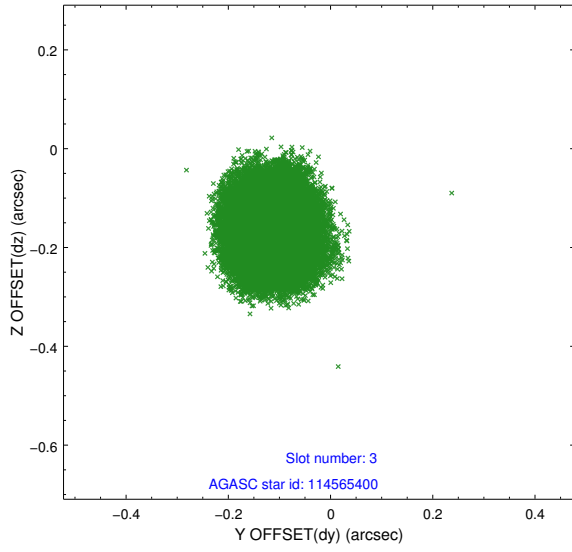


Slot Statistics

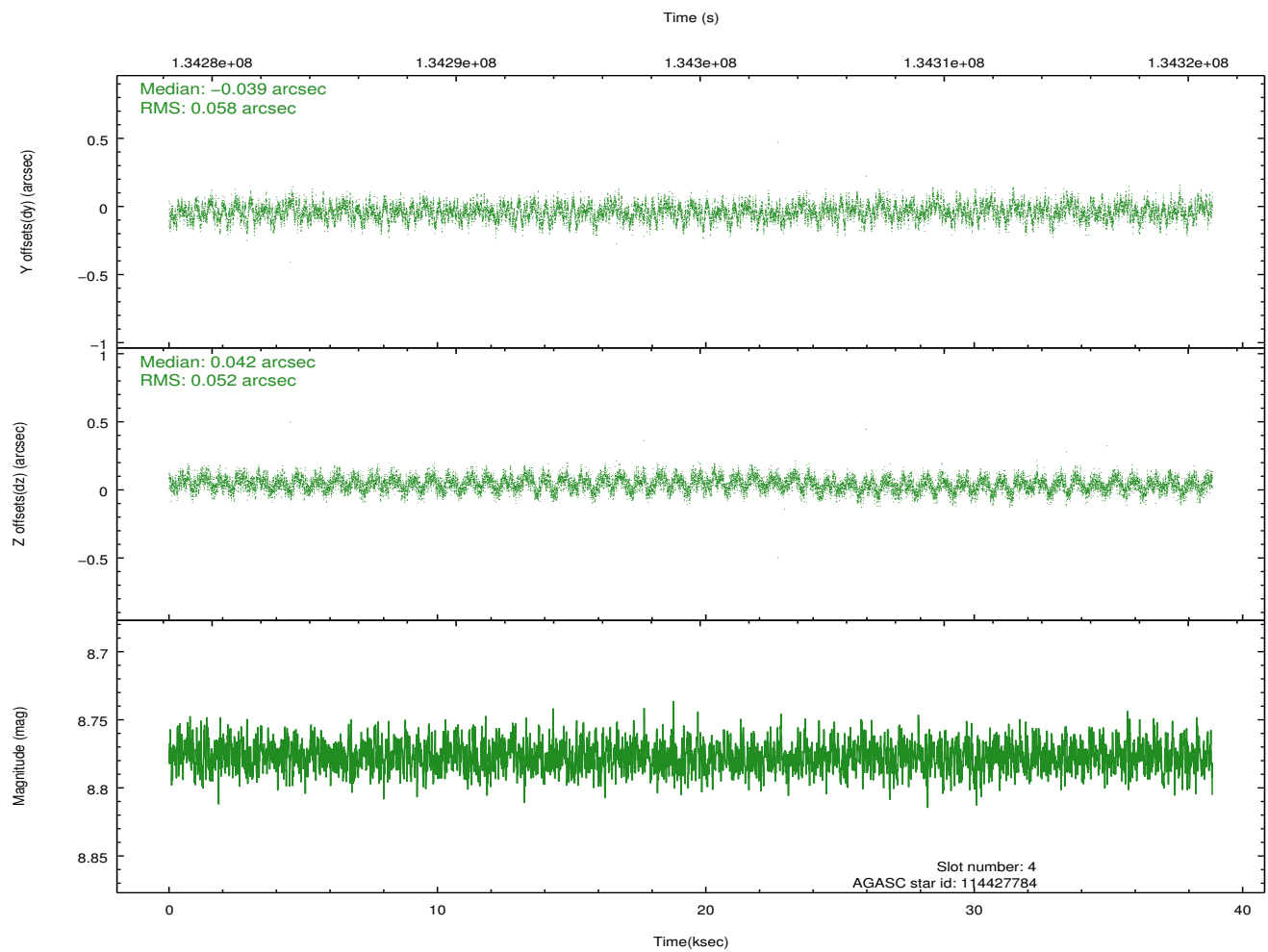
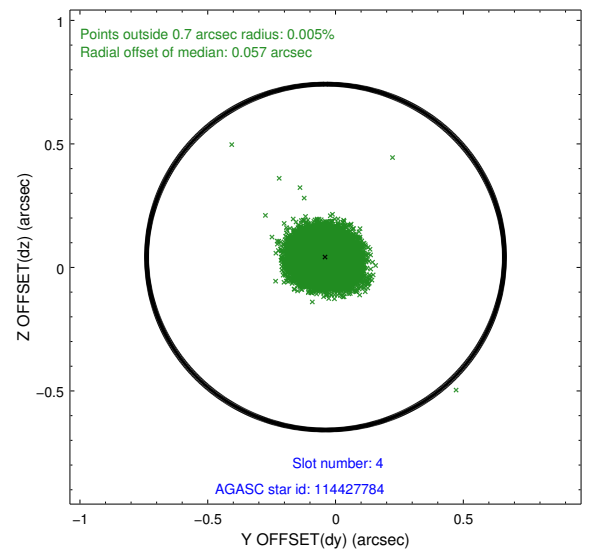
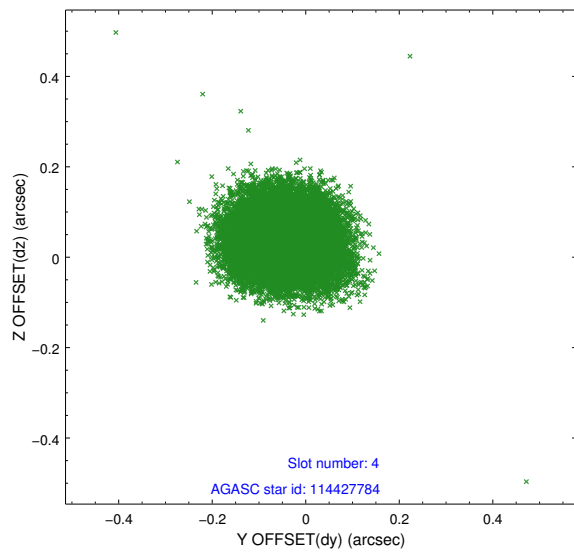
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	9481	-0.036	0.007	0.017	0.024	0.000000	0.000000	-755.08	-1727.48
1	FID	ACIS-S-4	7.20	9480	-0.023	0.015	0.018	0.027	0.000000	0.000000	2158.17	181.05
2	FID	ACIS-S-5	7.24	9480	0.028	-0.014	0.009	0.016	0.000000	0.000000	-1807.86	174.64
3	GUIDE	114565400	6.31	18959	-0.120	-0.157	0.083	0.124	186.925333	8.610343	-395.76	1837.71
4	GUIDE	114427784	8.78	18957	-0.039	0.042	0.084	0.133	186.068583	9.508052	1175.05	-2315.89
5	GUIDE	114562600	8.76	18916	0.020	0.020	0.076	0.120	186.973653	8.898661	-951.87	944.73
6	GUIDE	114558952	9.43	18952	0.082	0.166	0.268	0.361	186.929093	9.345397	-1421.58	-601.21
7	GUIDE	114561264	9.63	18946	0.068	-0.071	0.140	0.215	186.762657	8.969089	-356.04	423.05

2.4 Star Slots

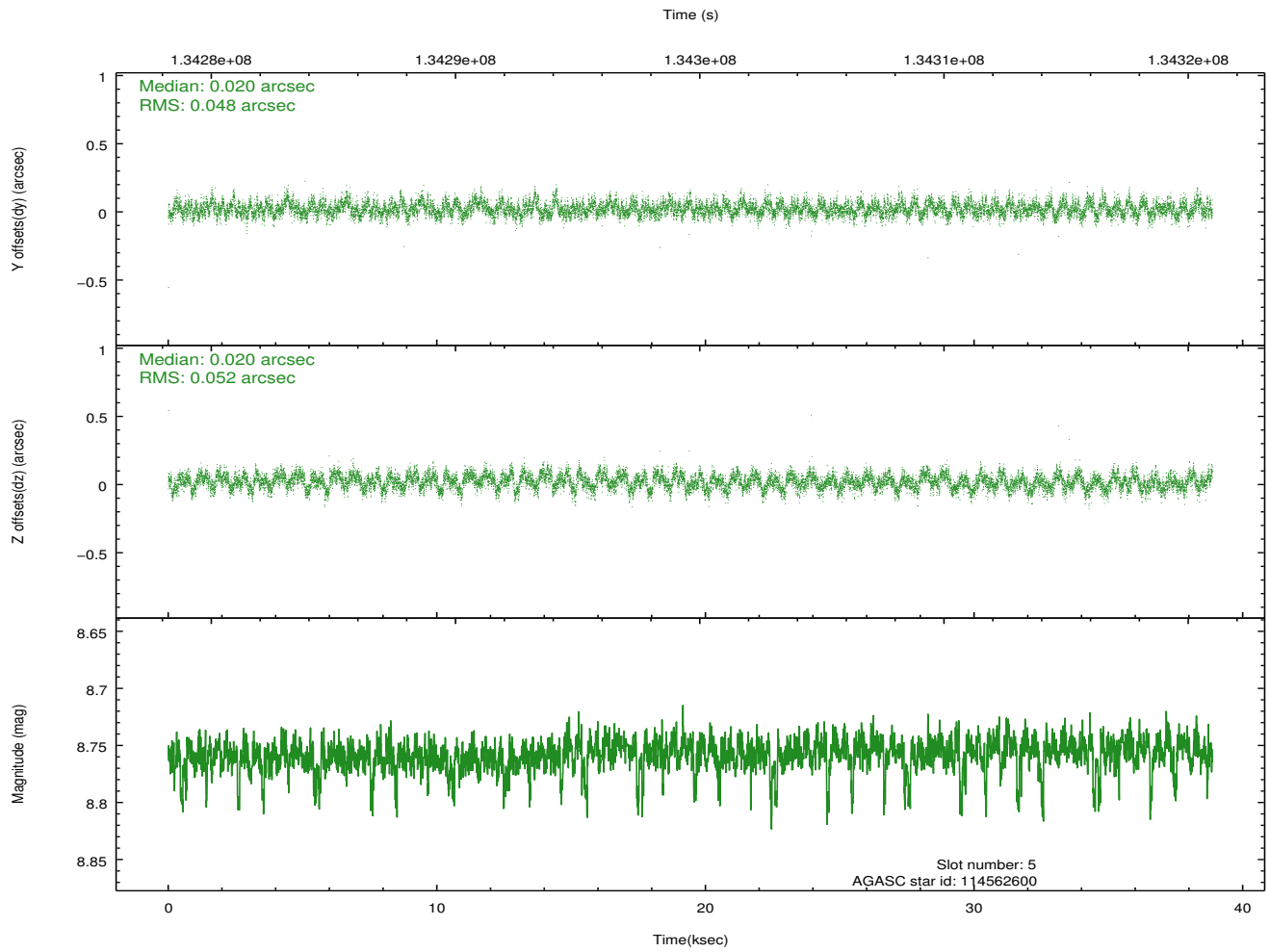
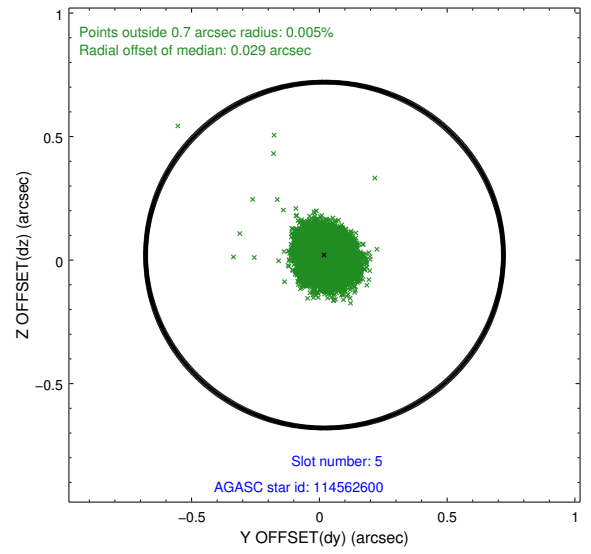
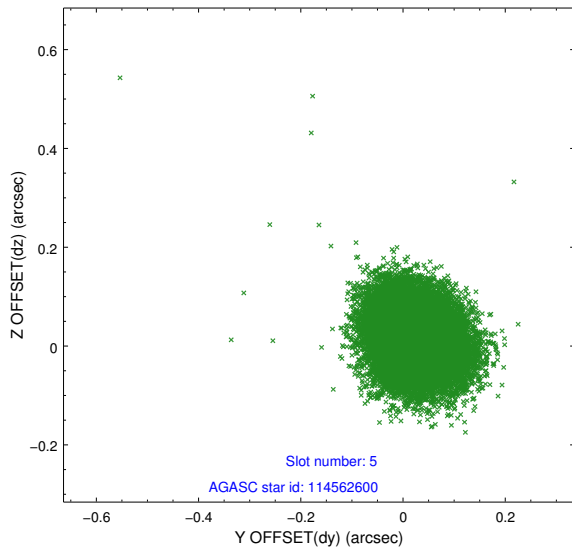
2.4.1 Slot 3



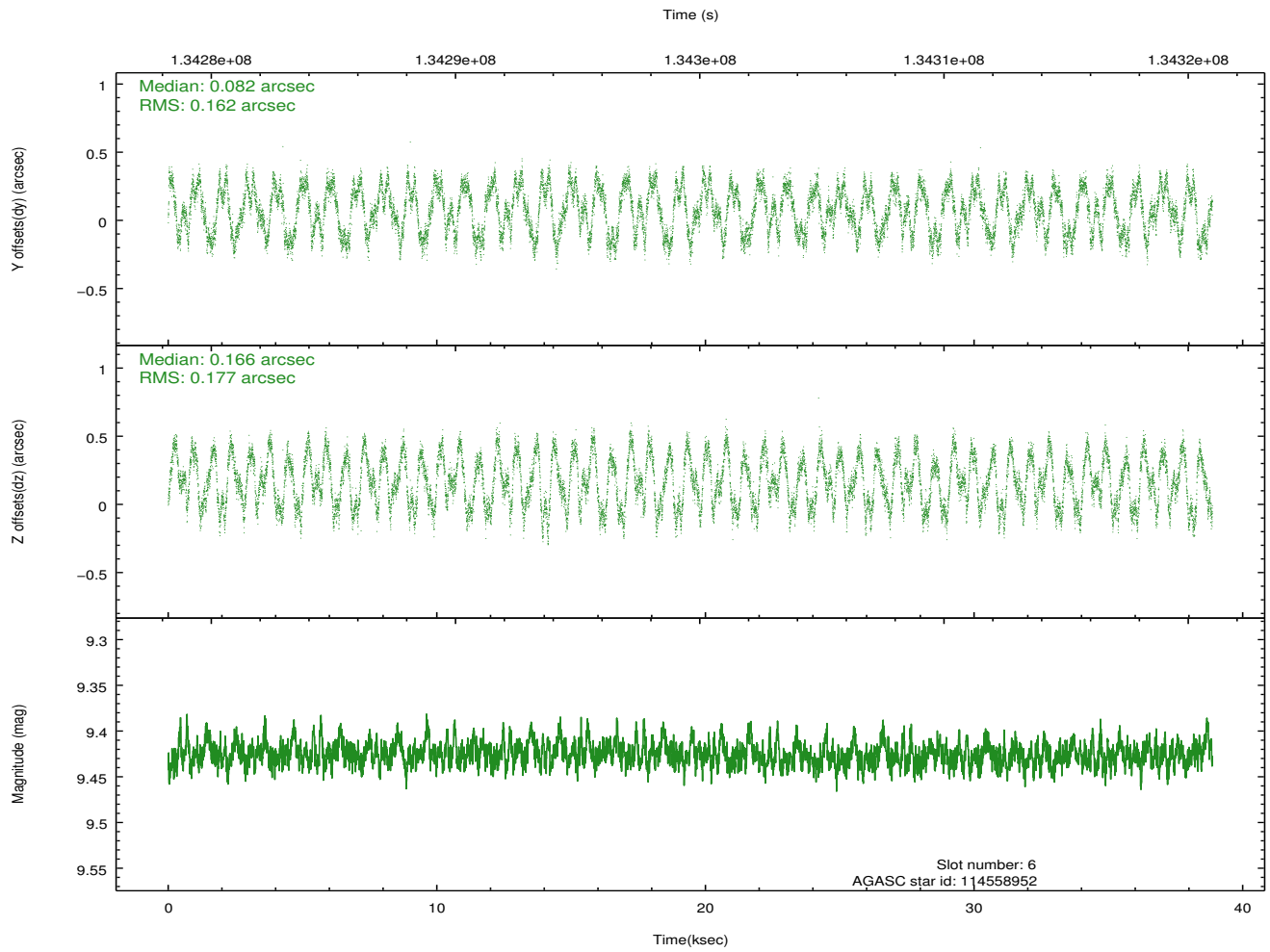
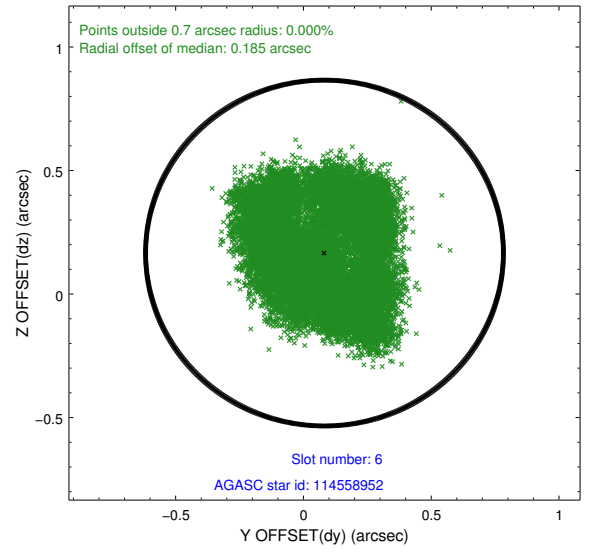
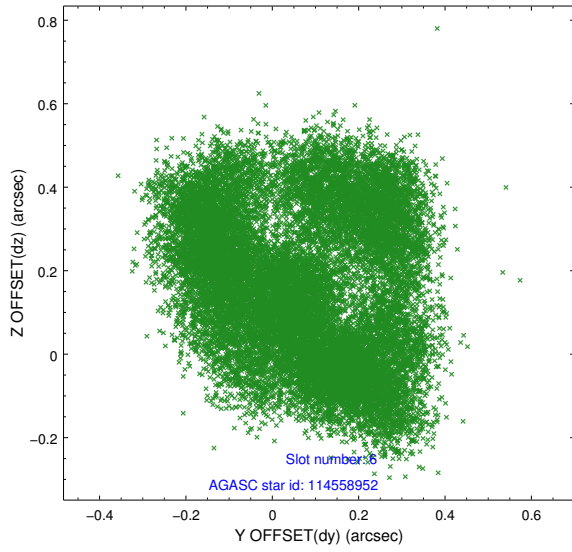
2.4.2 Slot 4



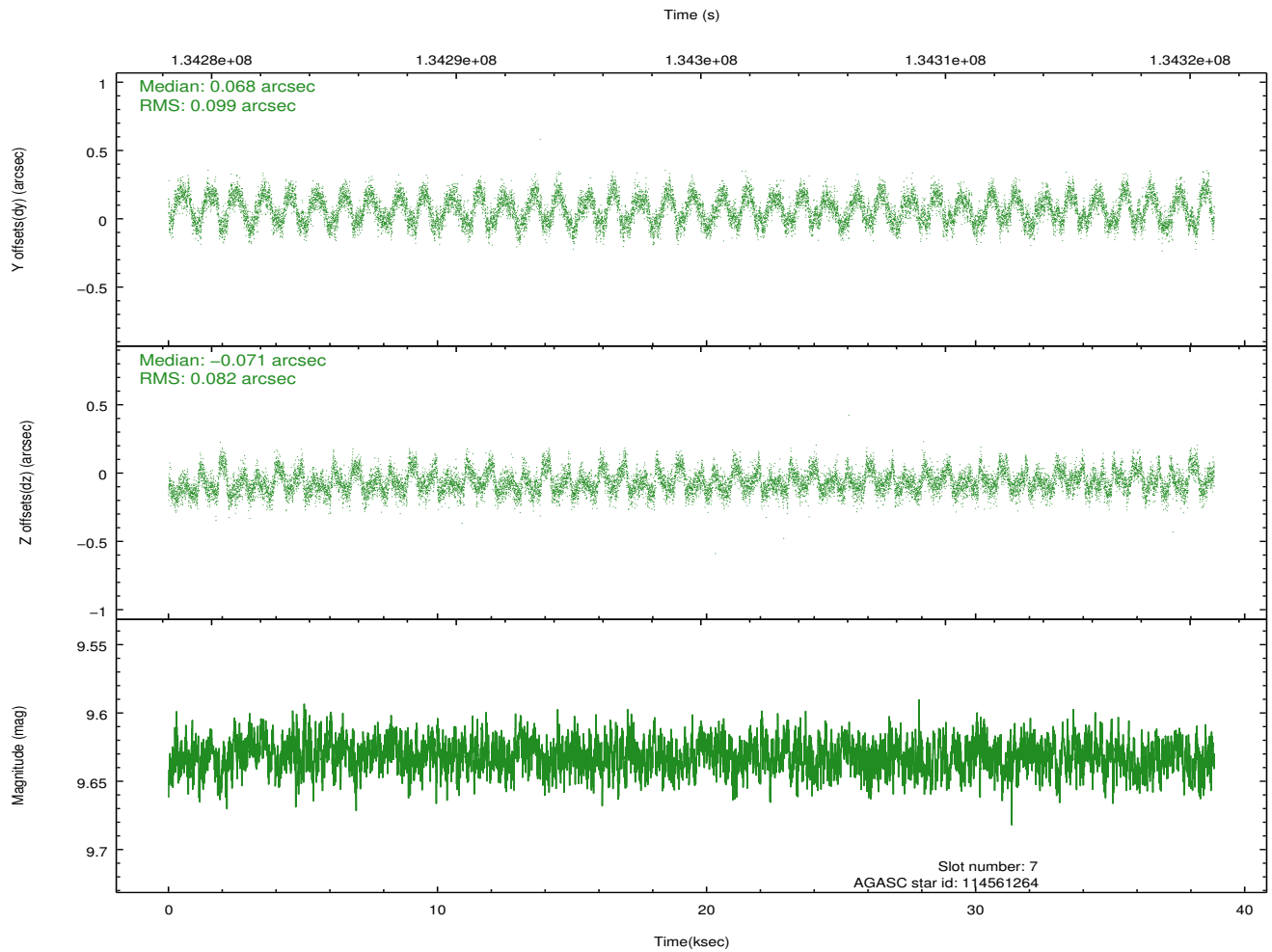
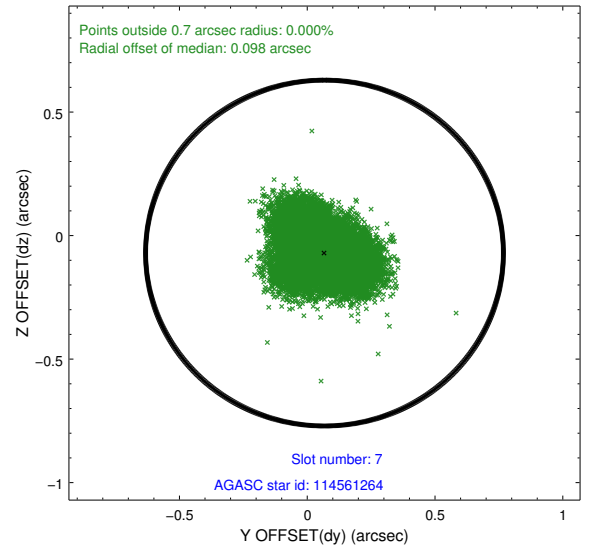
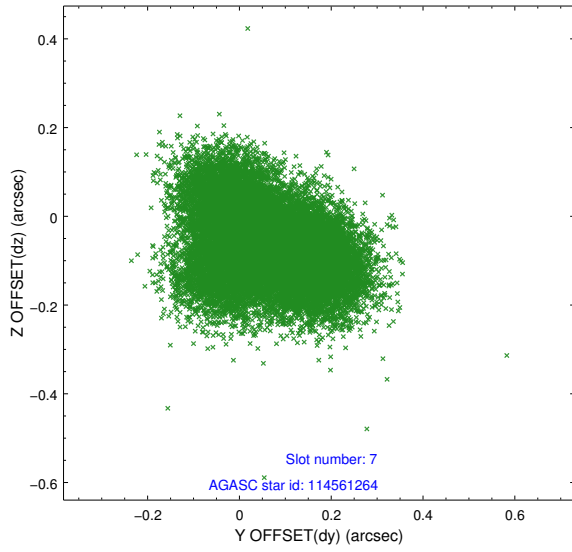
2.4.3 Slot 5



2.4.4 Slot 6

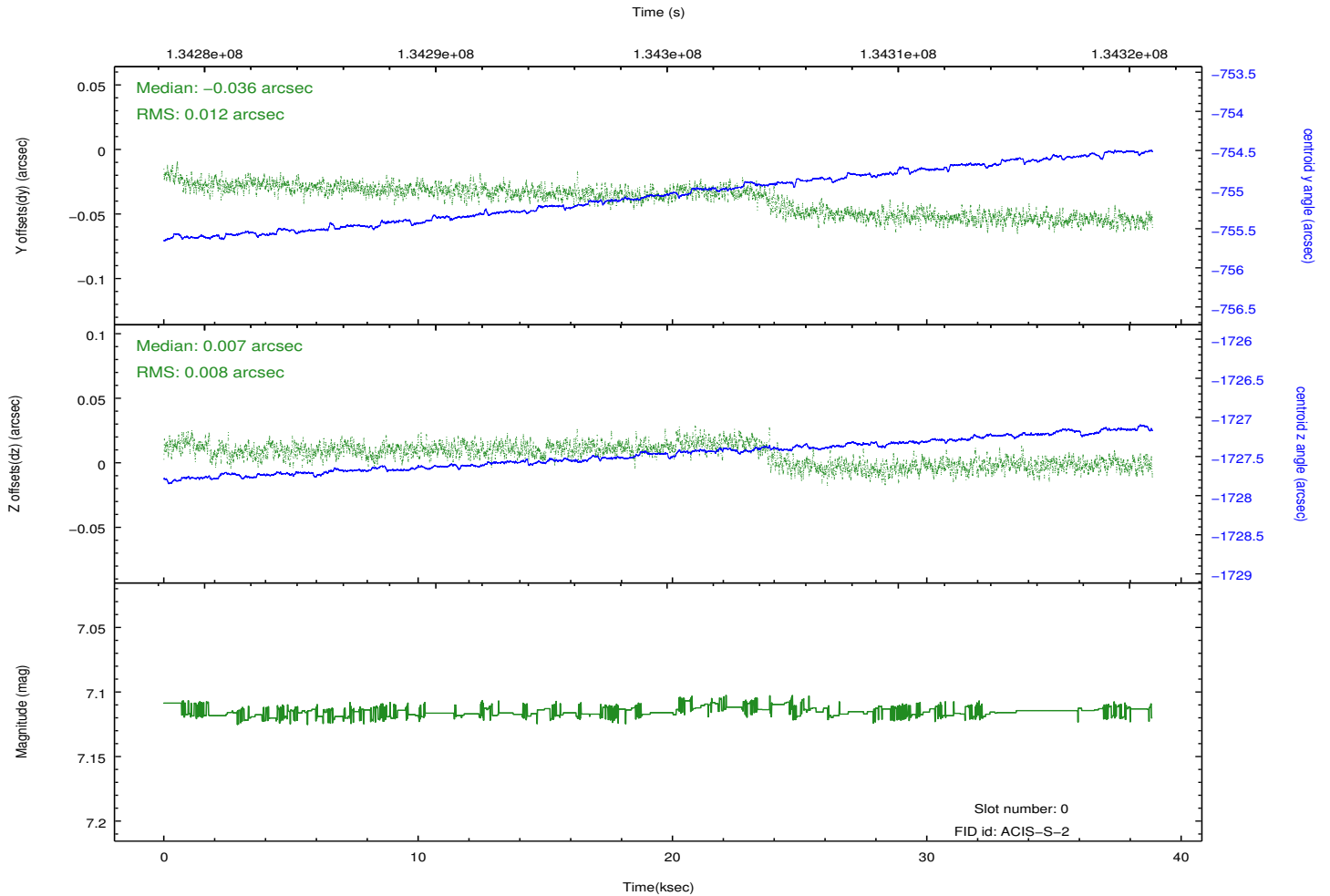
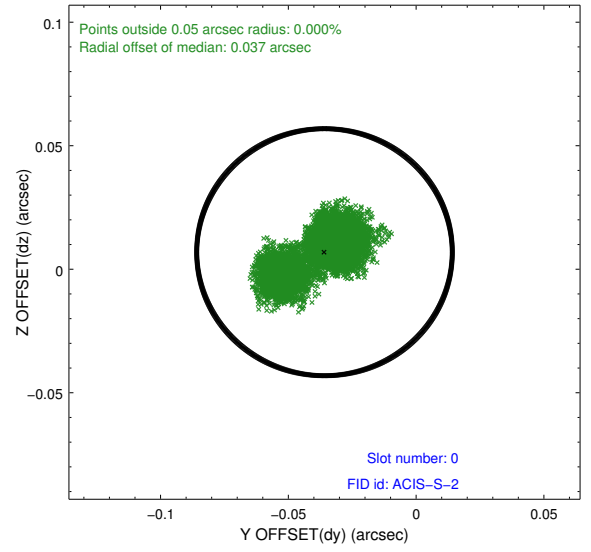
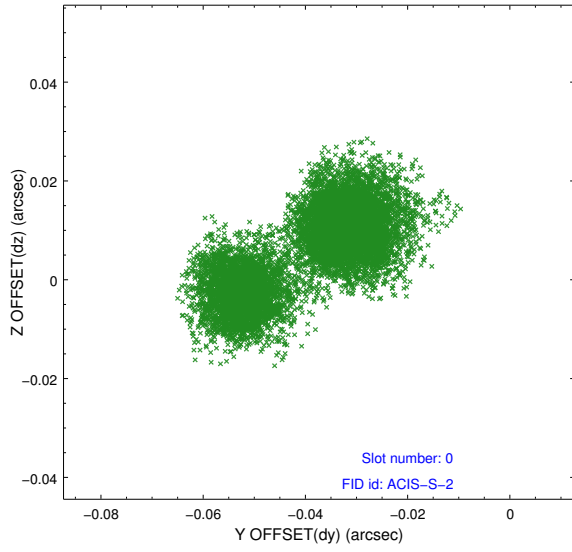


2.4.5 Slot 7

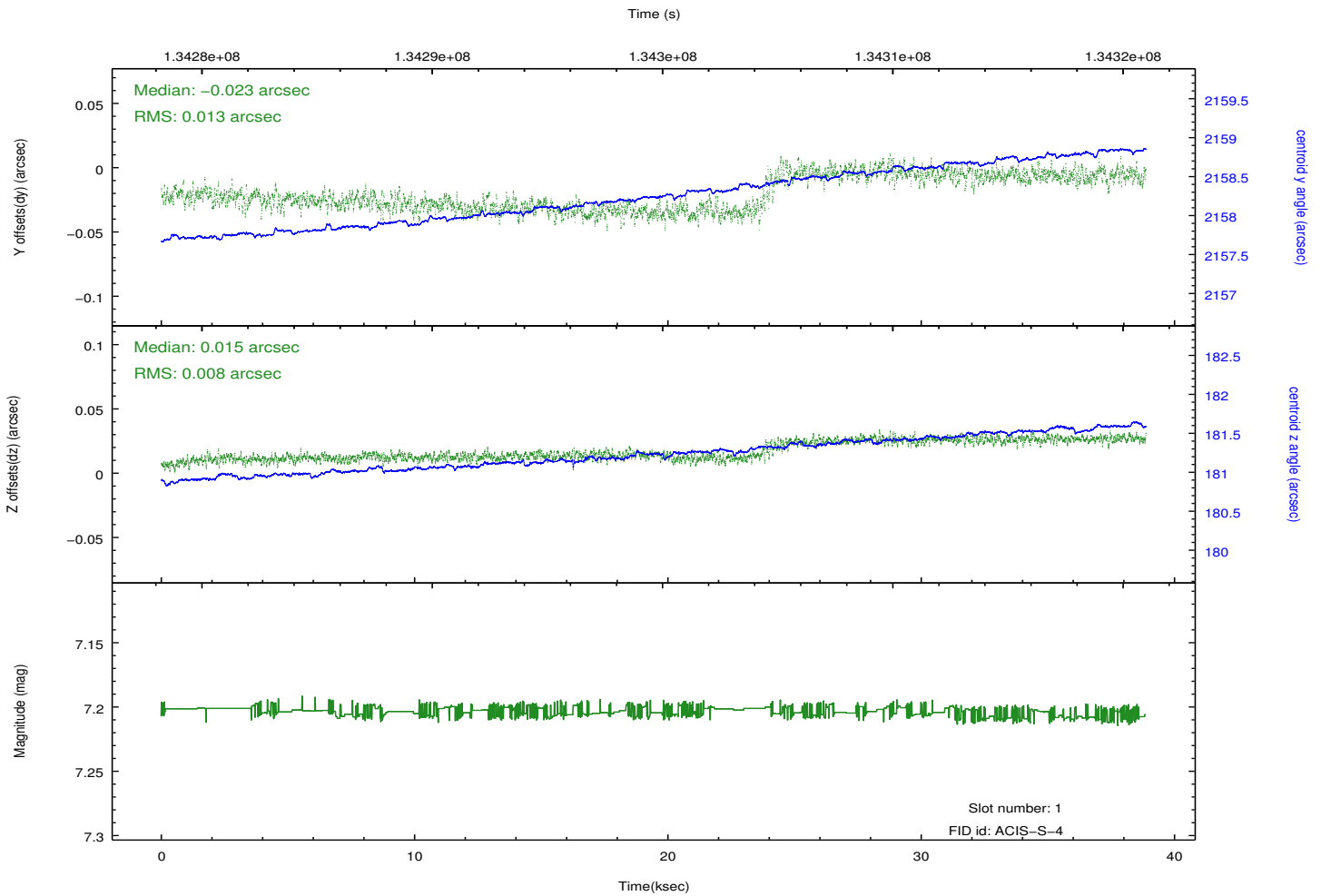
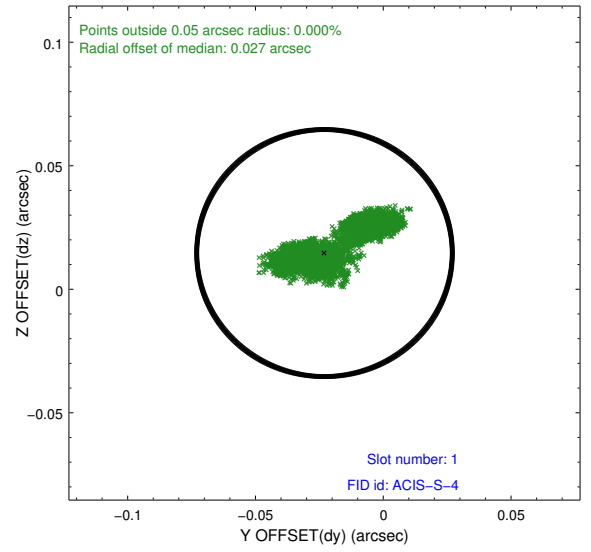
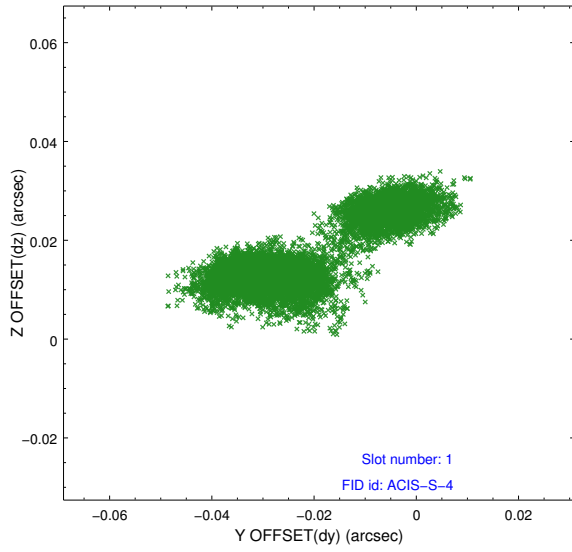


2.5 FID Slots

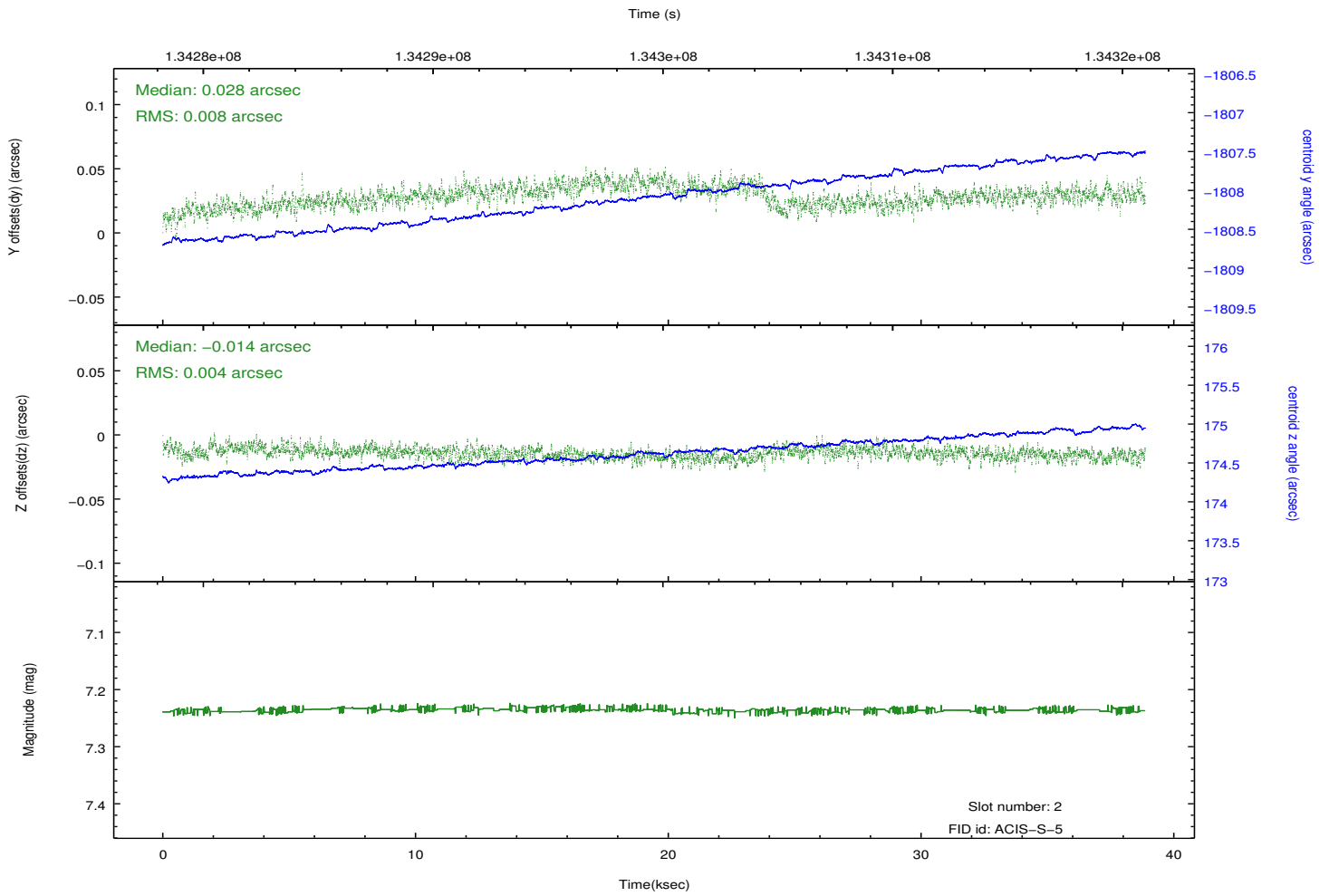
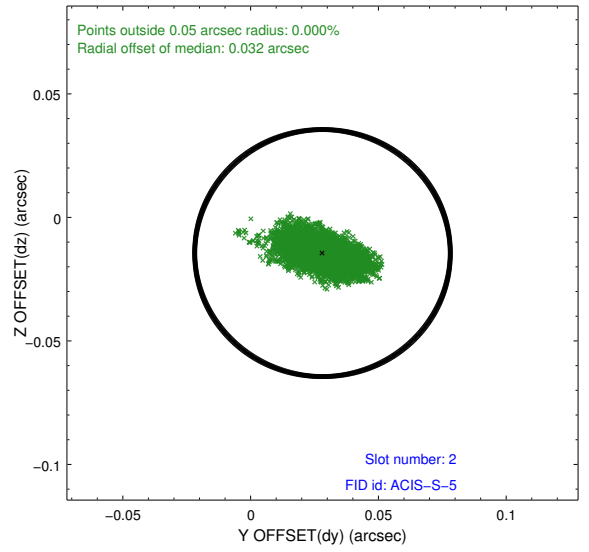
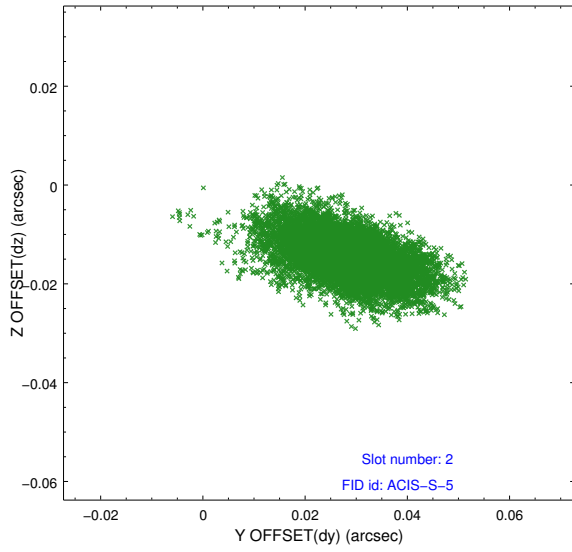
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.61

A.2 Comments

Roll preference met.