

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12073 - L2 Version 2
Chandra X-Ray Center

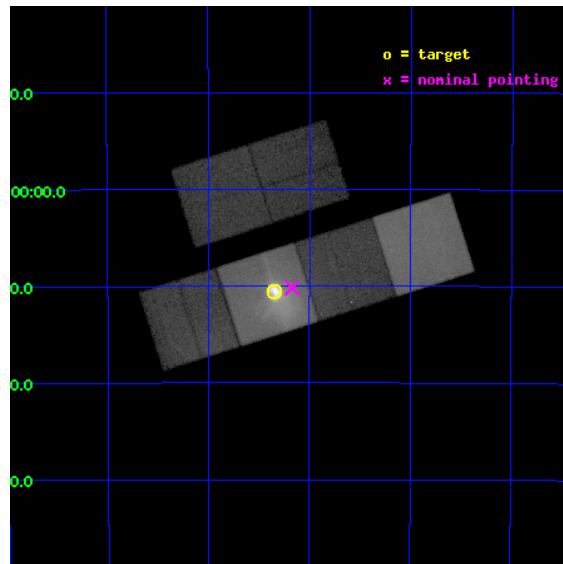
L2 Processing Date : Jul 1 2012

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1 Front

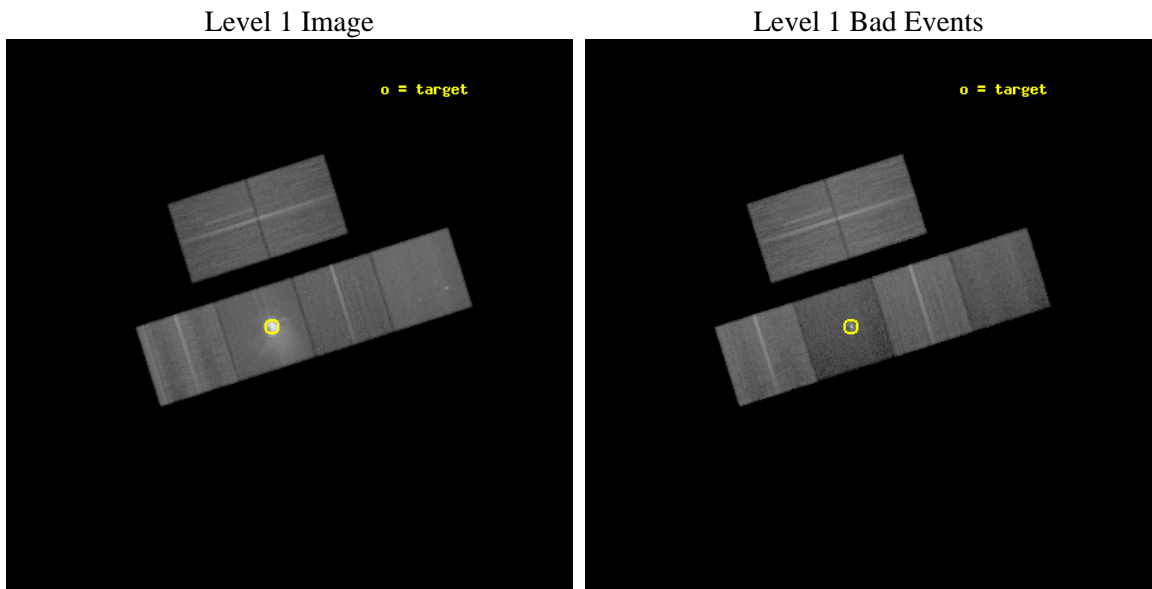
seq_num	501355	Sequence number
obs_id	12073	Observation id
title	The Unique Dynamical Vela Pulsar Wind Nebula	Proposal title
observer	Dr. George Pavlov	Principal investigator
object	Vela PWN	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.83625	Observer's specified target RA [deg]
dec_targ	-45.176583	Observer's specified target Dec [deg]
ra_nom	128.79355447293	Nominal RA [deg]
dec_nom	-45.169640449699	Nominal Dec [deg]
roll_nom	162.41613230413	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40046.732346833	Sum of GTIs [s]
livetime	39539.63650861	Livetime [s]
ontime2	40046.773386836	Sum of GTIs [s]
ontime3	40046.609226823	Sum of GTIs [s]
ontime5	40046.691306829	Sum of GTIs [s]
ontime6	40046.650266826	Sum of GTIs [s]
ontime7	40046.732346833	Sum of GTIs [s]
ontime8	40046.56818682	Sum of GTIs [s]
l2events	1025530	Number of level 2 events



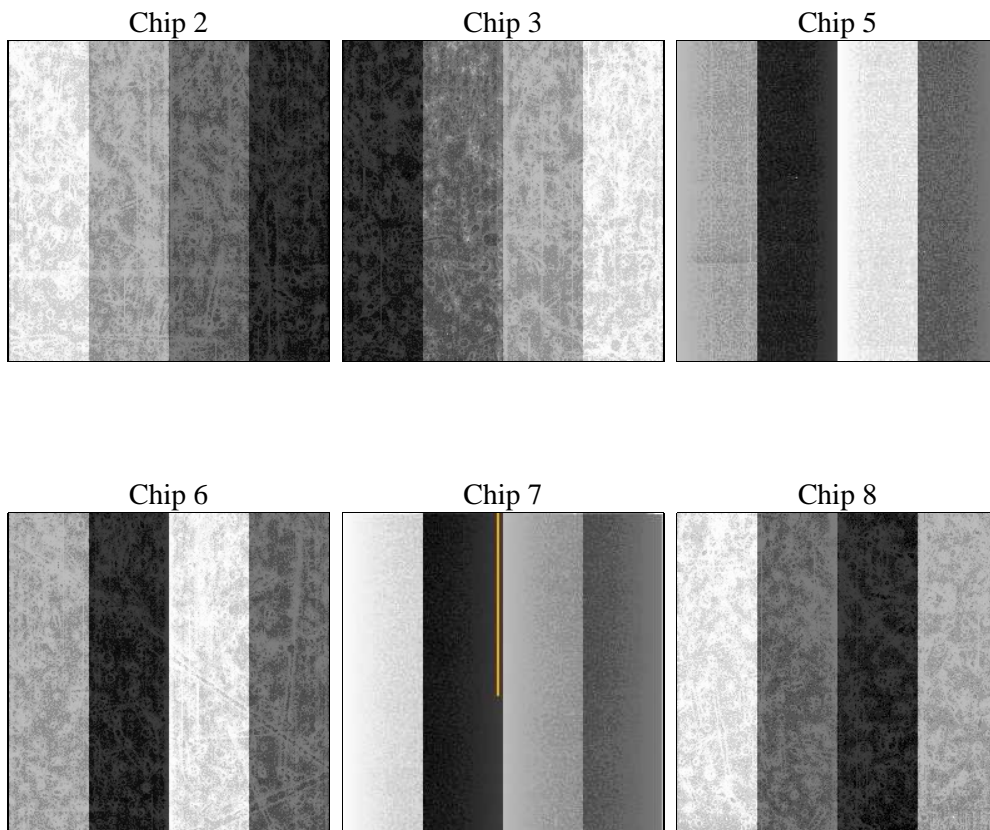
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40046.732346833	Sum of GTIs [s]
caldsver	4.5.0	 	ontime2	40046.773386836	Sum of GTIs [s]
date	2012-07-01T18:39:07	Date and time of file creation	ontime3	40046.609226823	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	40046.691306829	Sum of GTIs [s]
			ontime6	40046.650266826	Sum of GTIs [s]
			ontime7	40046.732346833	Sum of GTIs [s]
			ontime8	40046.56818682	Sum of GTIs [s]
			l1events	2340708	Number of level 1 events

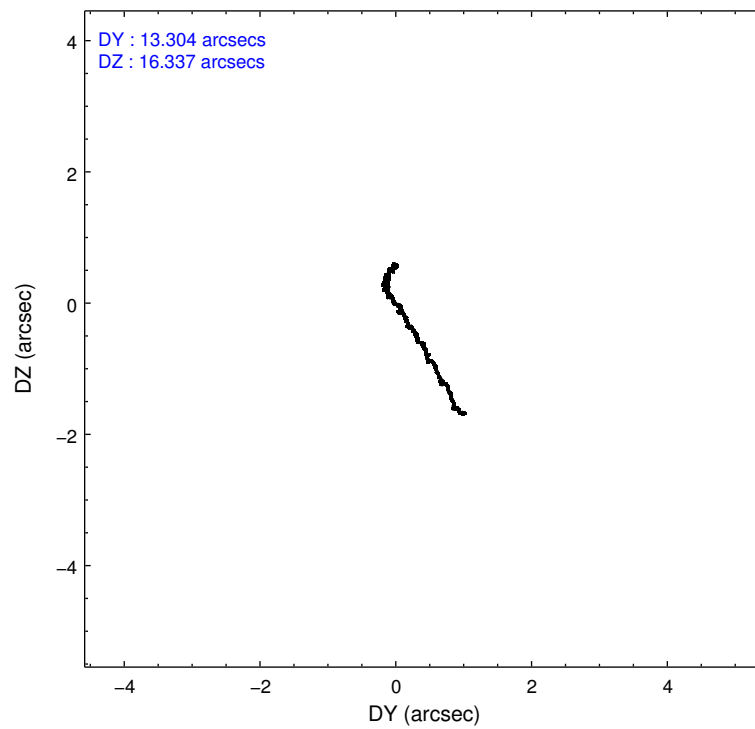
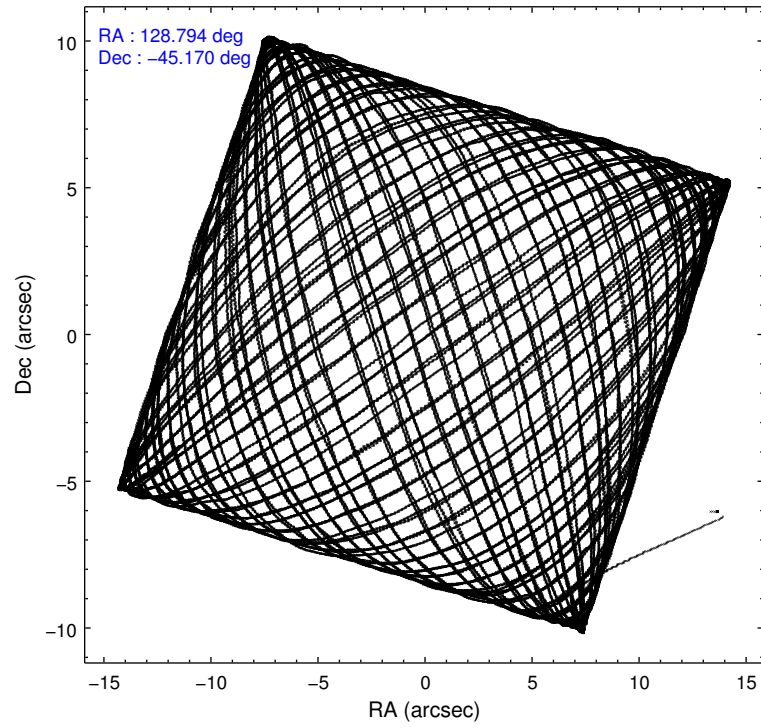
2.1.4 Events

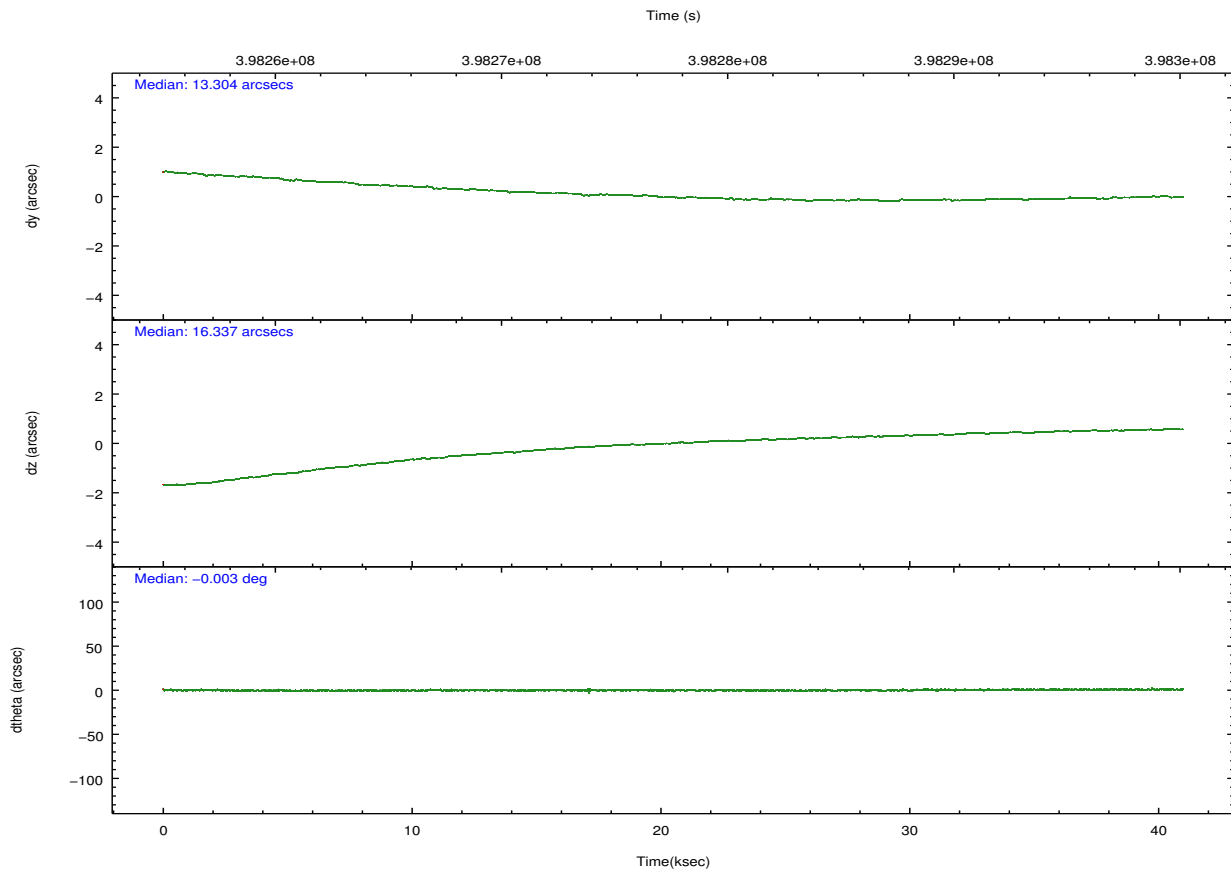
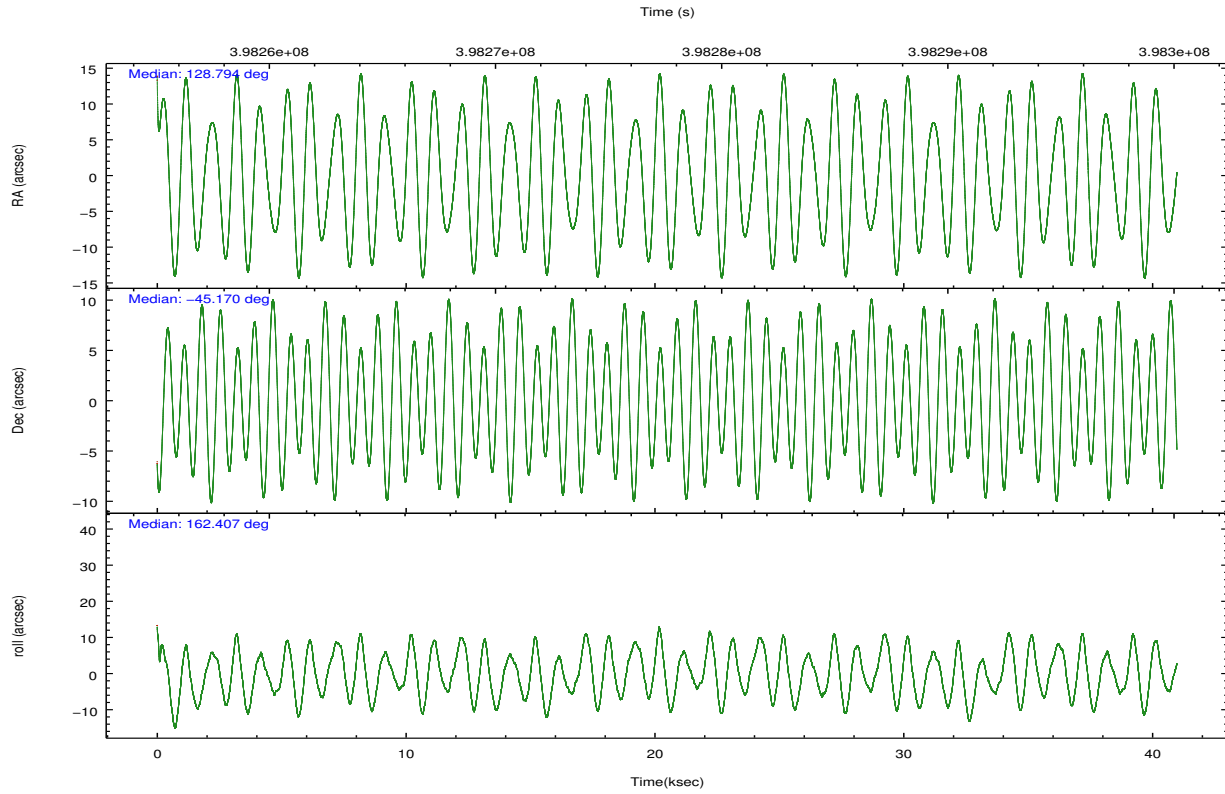
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	294242	269082	365229	297892	742533	371730	grade 0 events	25473	28384	48632	39487	177955	57240
rejected events	250648	222694	137026	236667	122894	238627		8%	10%	13%	13%	23%	15%
rejected %	85%	82%	37%	79%	16%	64%	grade 1 events	216	269	889	260	1601	435
								0%	0%	0%	0%	0%	0%
							grade 2 events	7643	7055	68093	9143	157005	25566
								2%	2%	18%	3%	21%	6%
							grade 3 events	3009	3082	11613	3500	66666	12528
								1%	1%	3%	1%	8%	3%
							grade 4 events	3037	3186	11263	3446	66275	11622
								1%	1%	3%	1%	8%	3%
							grade 5 events	6665	7751	25046	8015	28902	13024
								2%	2%	6%	2%	3%	3%
							grade 6 events	4440	4689	88641	5661	151853	26163
								1%	1%	24%	1%	20%	7%
							grade 7 events	243759	214666	111052	228380	92276	225152
								82%	79%	30%	76%	12%	60%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	128.831301	128.7935544729347	CCD I2 on	O2	Y
[deg] Pointing Dec	-45.163395	-45.16964044969887	CCD I3 on	Y	Y
[deg] Pointing Roll	162.286278	162.4161323041277	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	398258064.184000	398256017.86931	CCD S5 on	N	N
Observation start date	2010-08-15T11:13:18	2010-08-15T10:40:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	398298064.184000	398299337.44653	On-chip summing requested	N	N
Observation end date	2010-08-15T22:19:58	2010-08-15T22:42:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



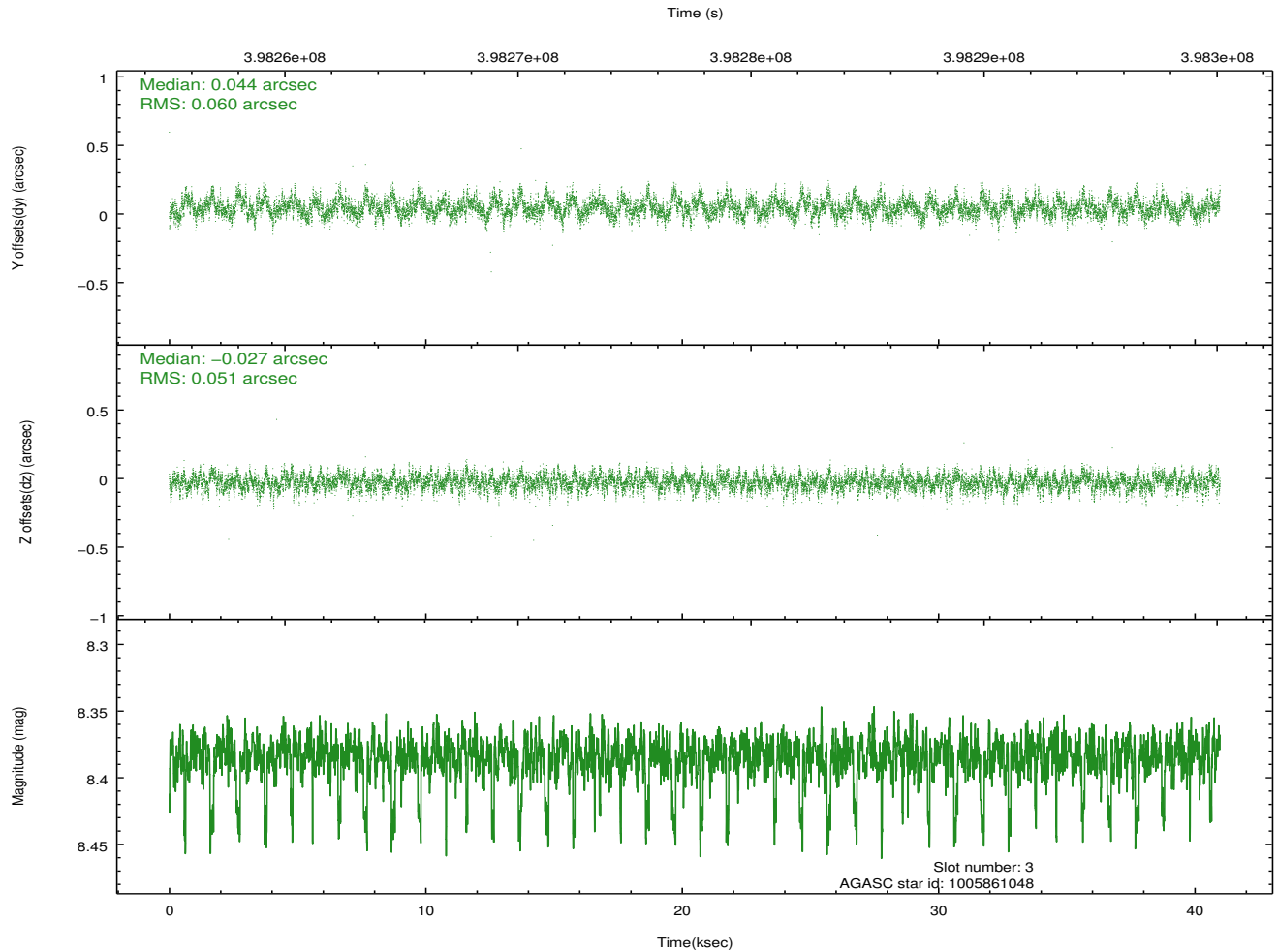
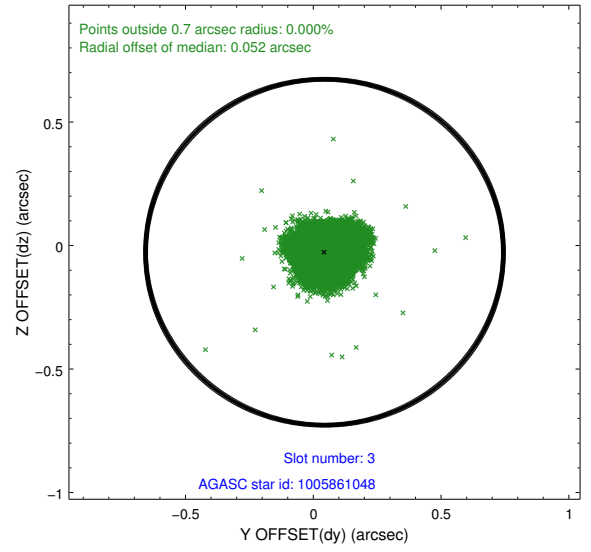
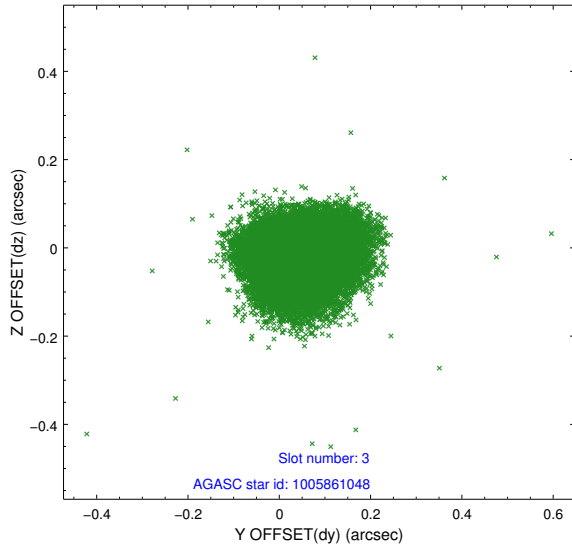


Slot Statistics

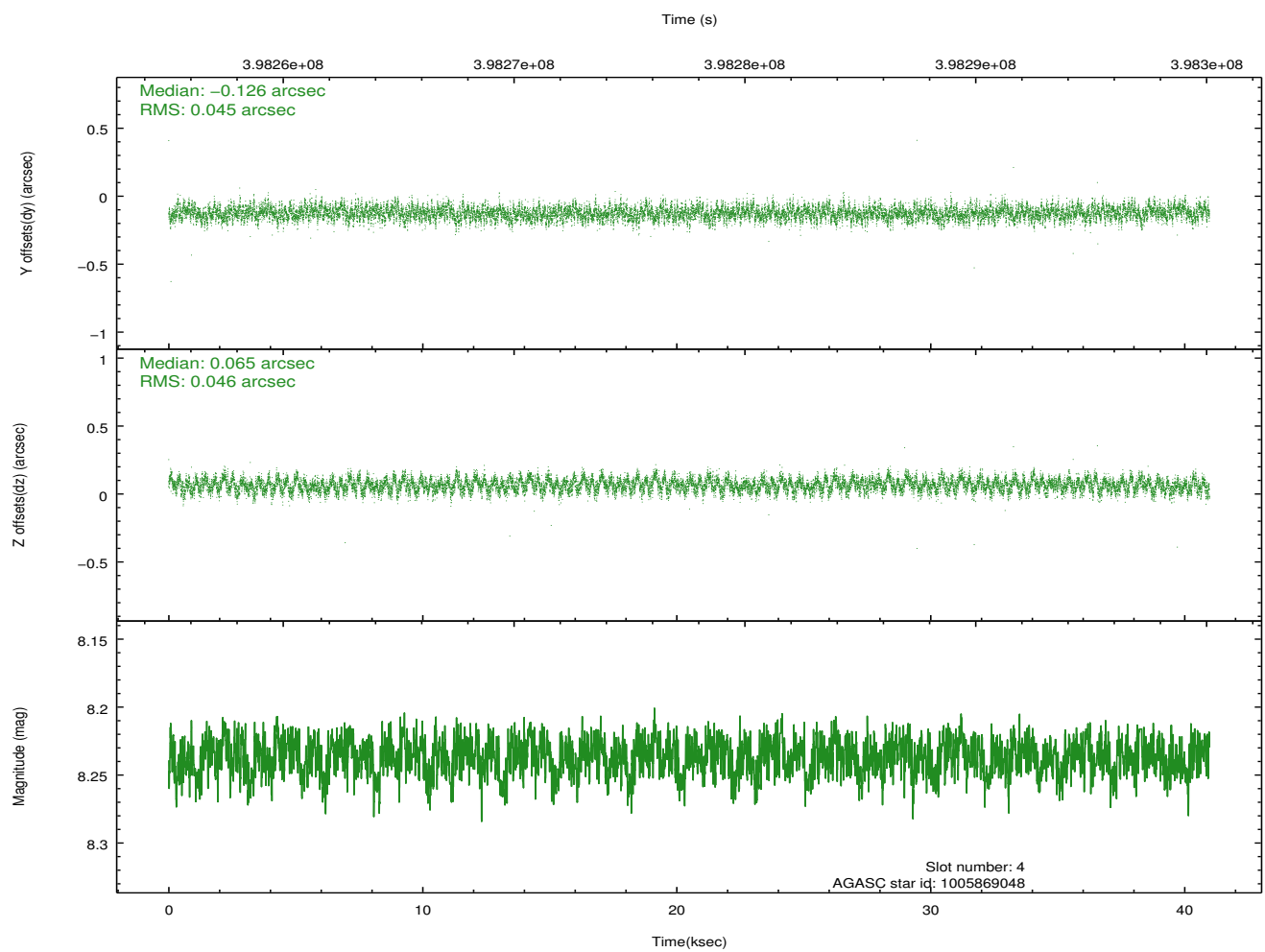
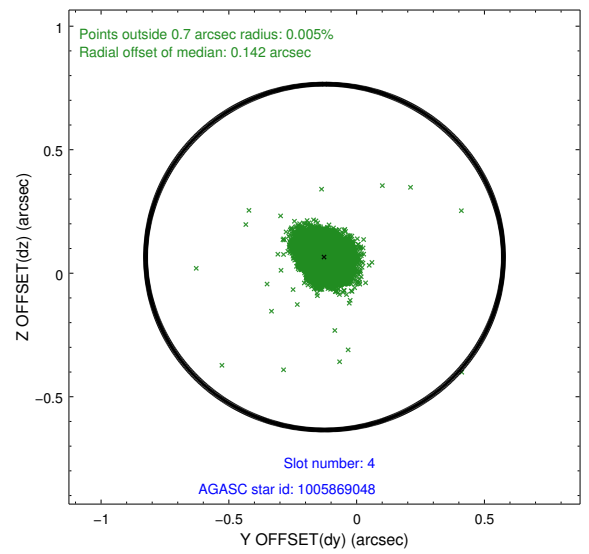
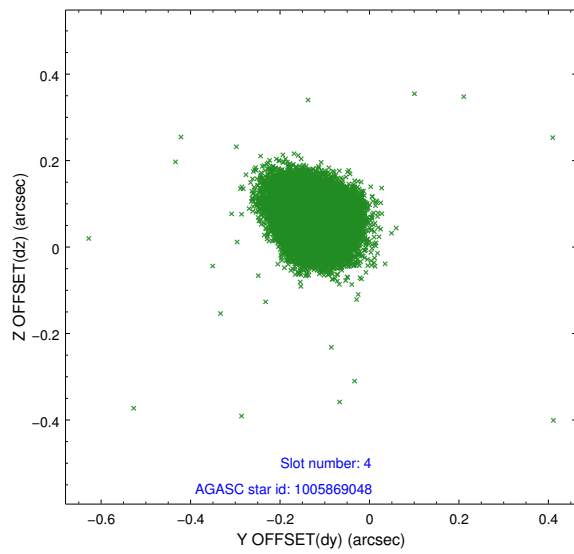
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	9996	-0.083	-0.055	0.018	0.055	0.000000	0.000000	-766.51	-1737.59
1	FID	ACIS-S-4	6.98	9994	0.106	0.035	0.016	0.041	0.000000	0.000000	2146.99	170.93
2	FID	ACIS-S-6	7.11	9995	-0.047	0.026	0.013	0.022	0.000000	0.000000	395.57	808.35
3	GUIDE	1005861048	8.38	19985	0.044	-0.027	0.083	0.136	128.669106	-44.528323	1092.92	-2050.62
4	GUIDE	1005869048	8.24	19980	-0.126	0.065	0.068	0.108	128.429058	-44.495949	1715.10	-1971.99
5	GUIDE	1005871096	9.00	19953	-0.099	0.085	0.081	0.131	128.774147	-44.764566	576.35	-1322.95
6	GUIDE	1005871784	8.00	19985	0.169	-0.050	0.072	0.115	128.533947	-44.544833	1404.81	-1887.61
7	GUIDE	1068263200	9.12	19852	0.007	-0.075	0.095	0.152	128.222628	-45.344390	1267.49	1094.83

2.4 Star Slots

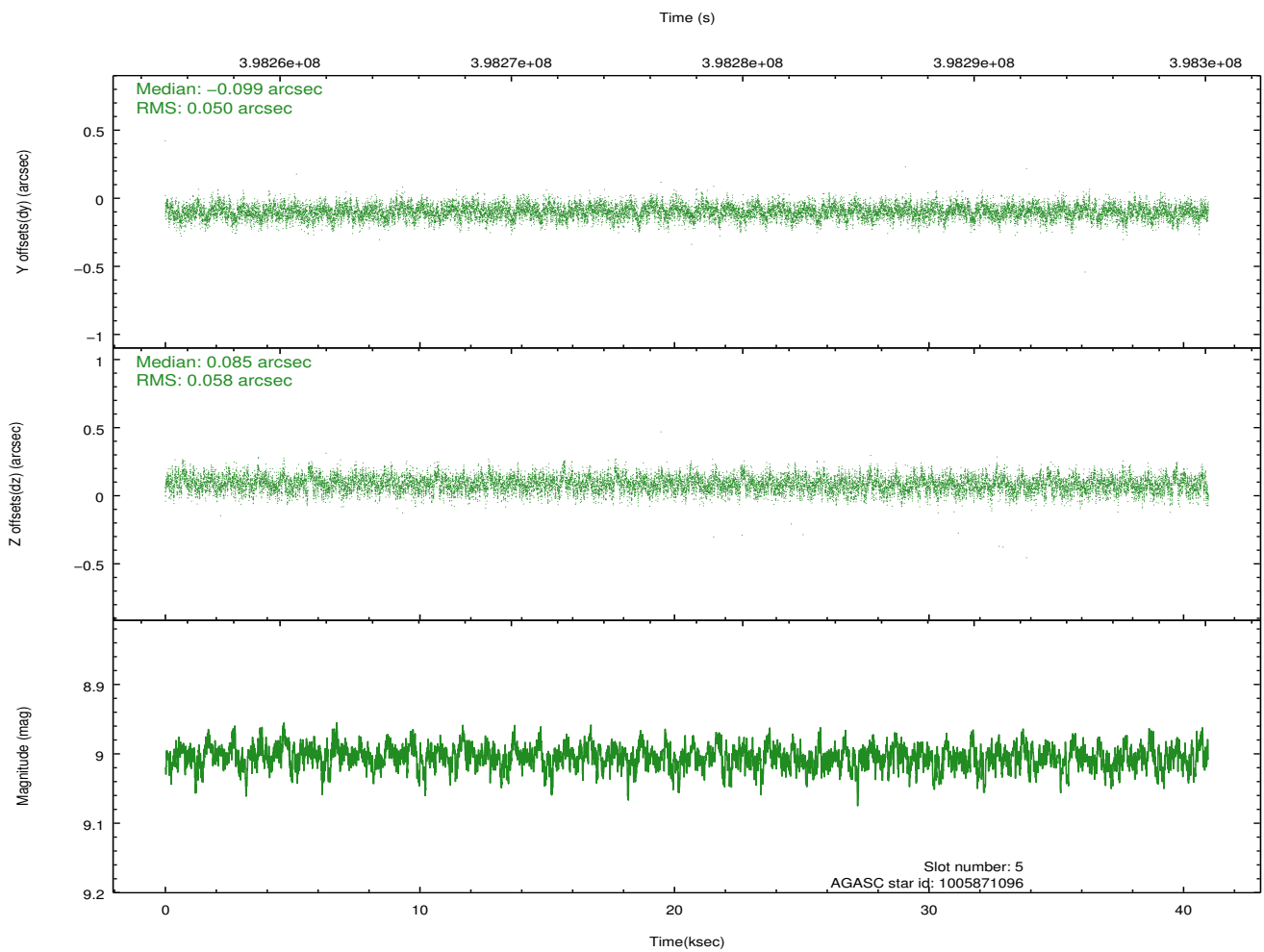
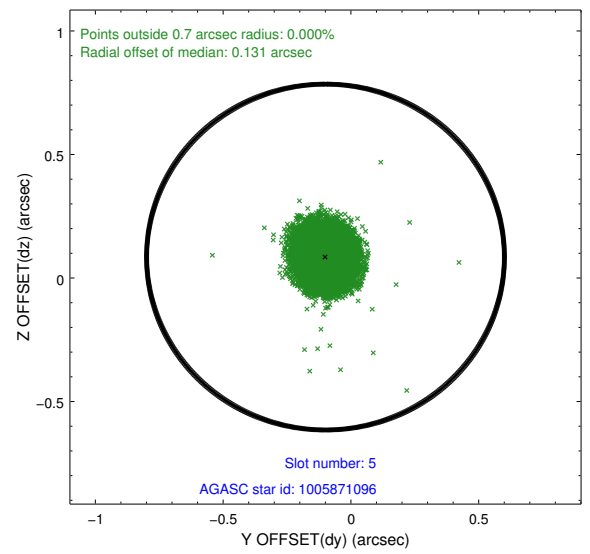
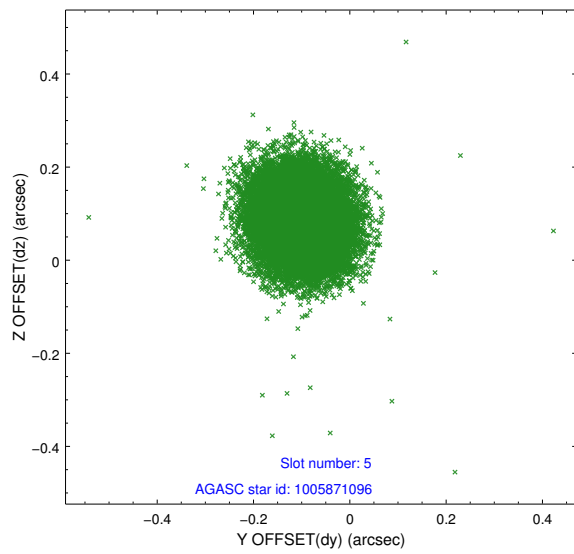
2.4.1 Slot 3



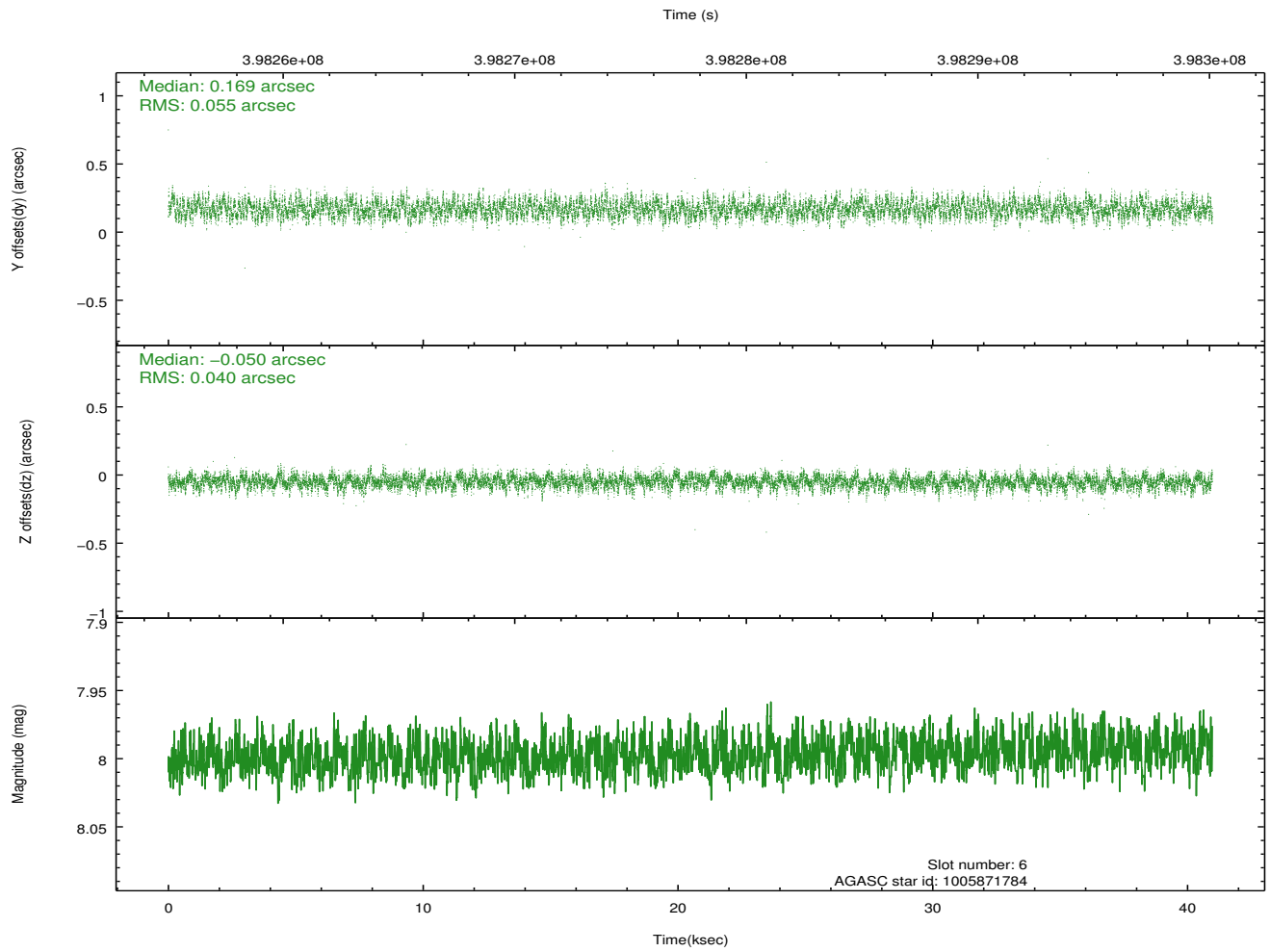
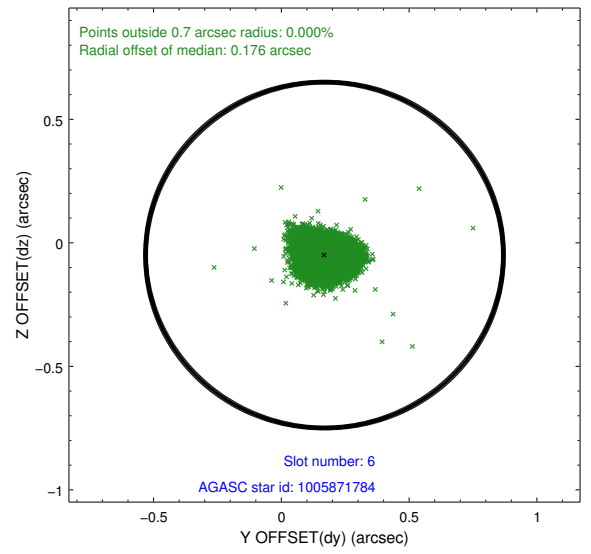
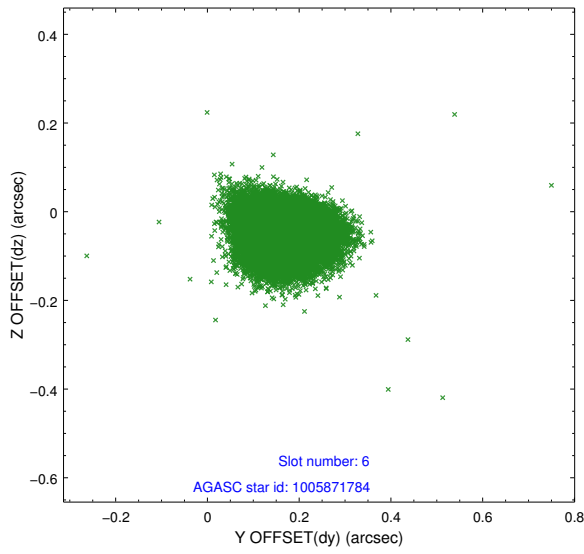
2.4.2 Slot 4



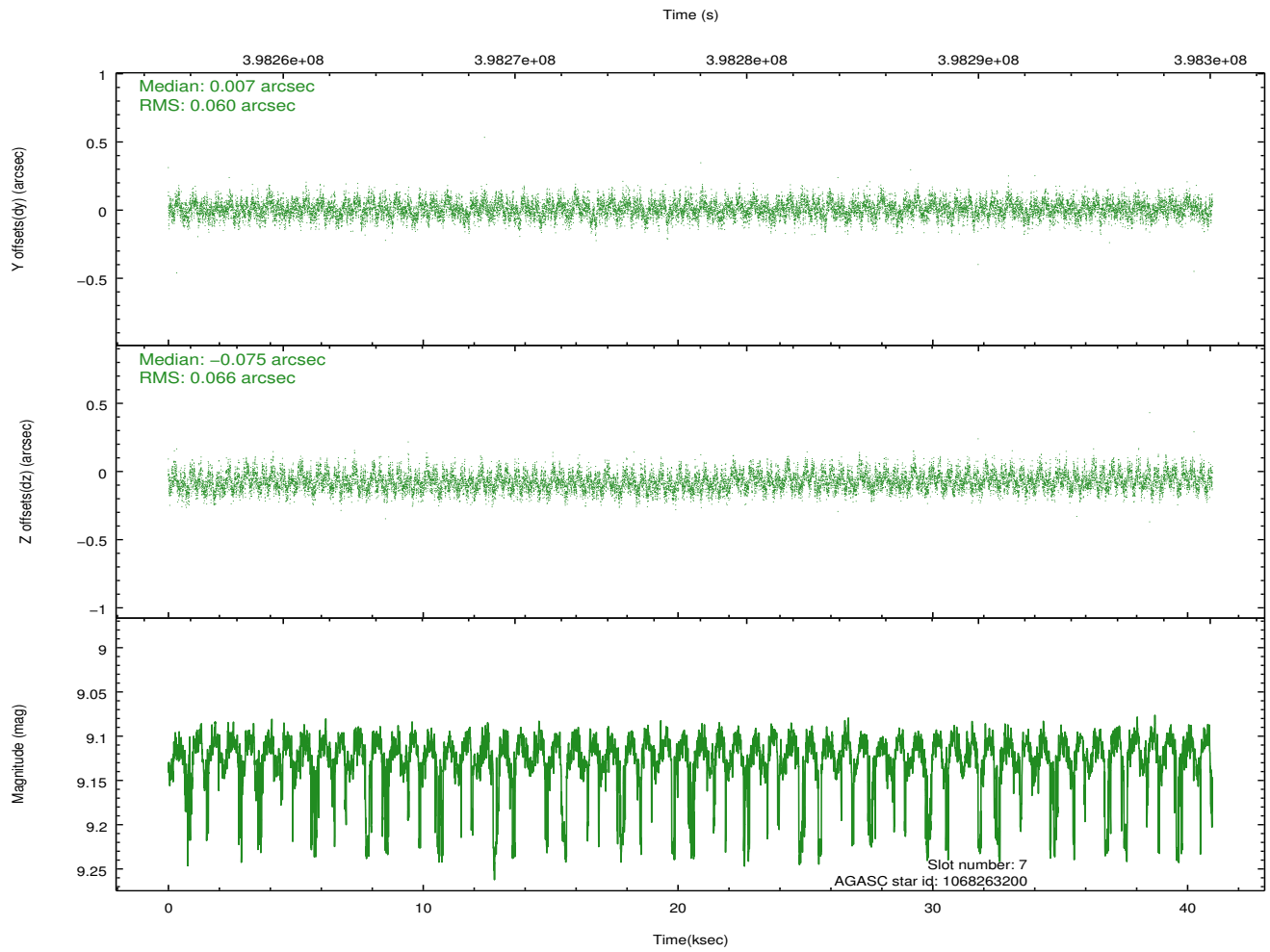
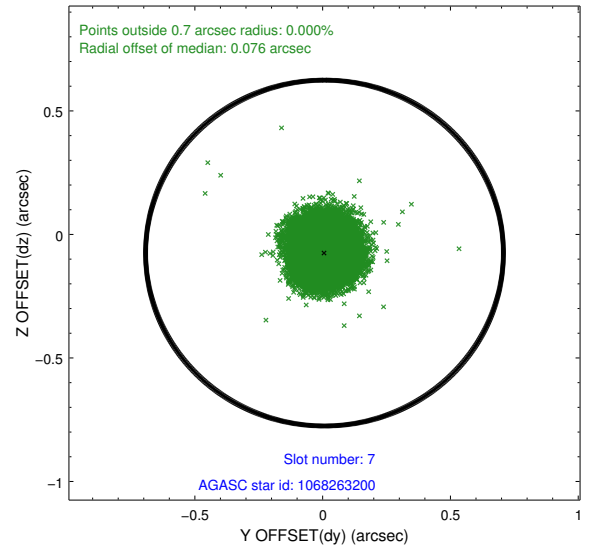
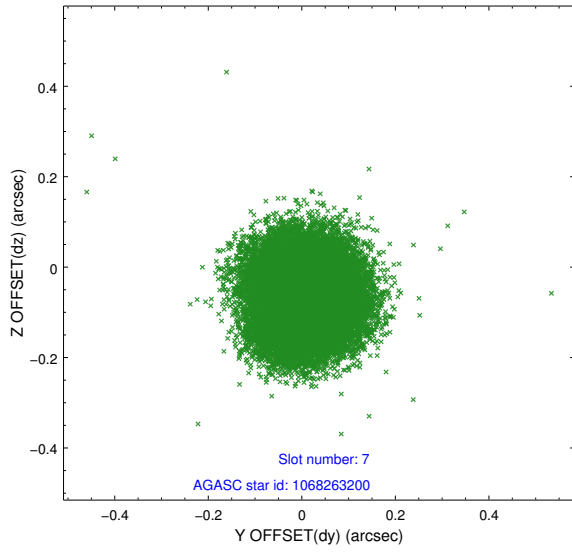
2.4.3 Slot 5



2.4.4 Slot 6

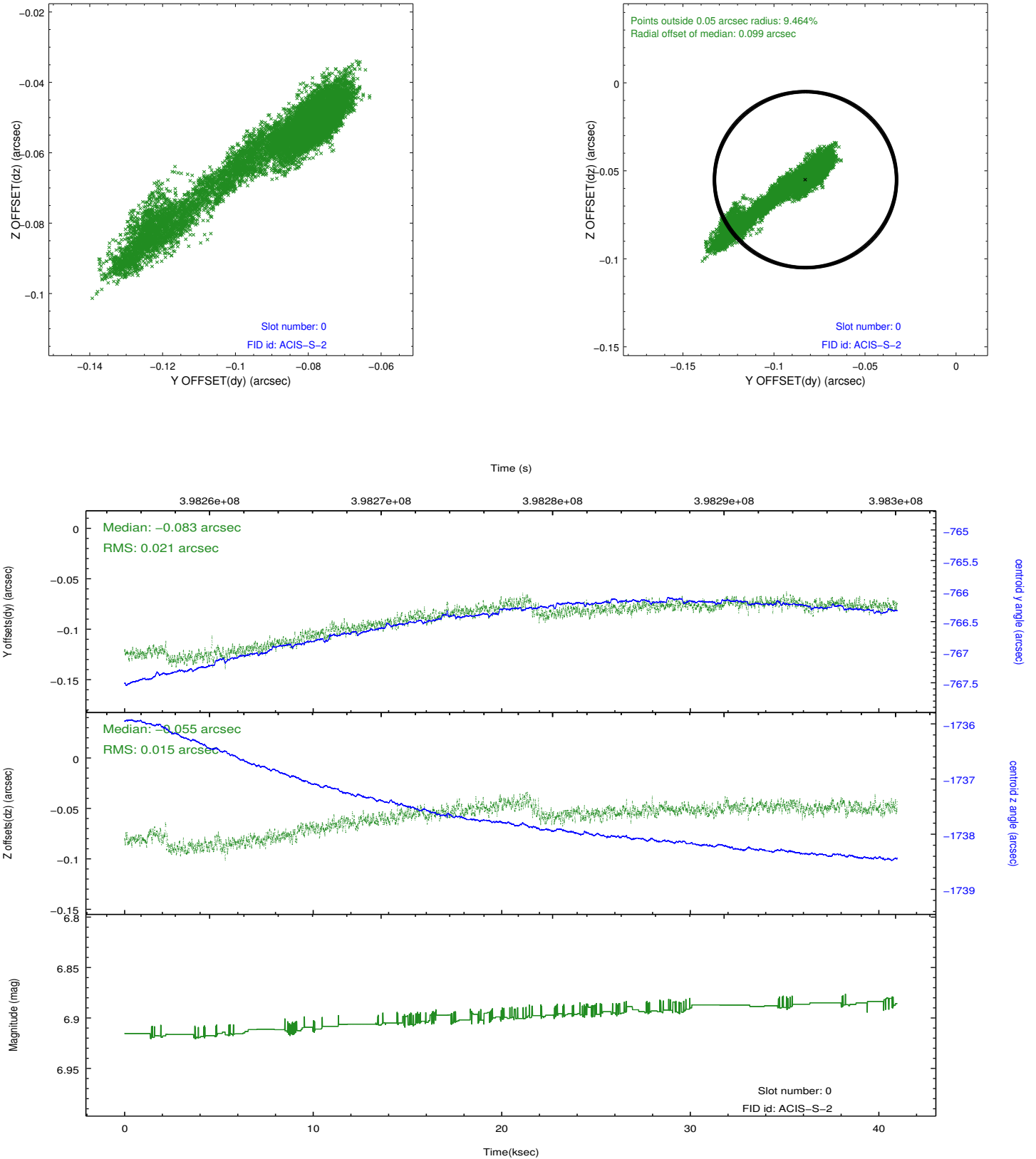


2.4.5 Slot 7

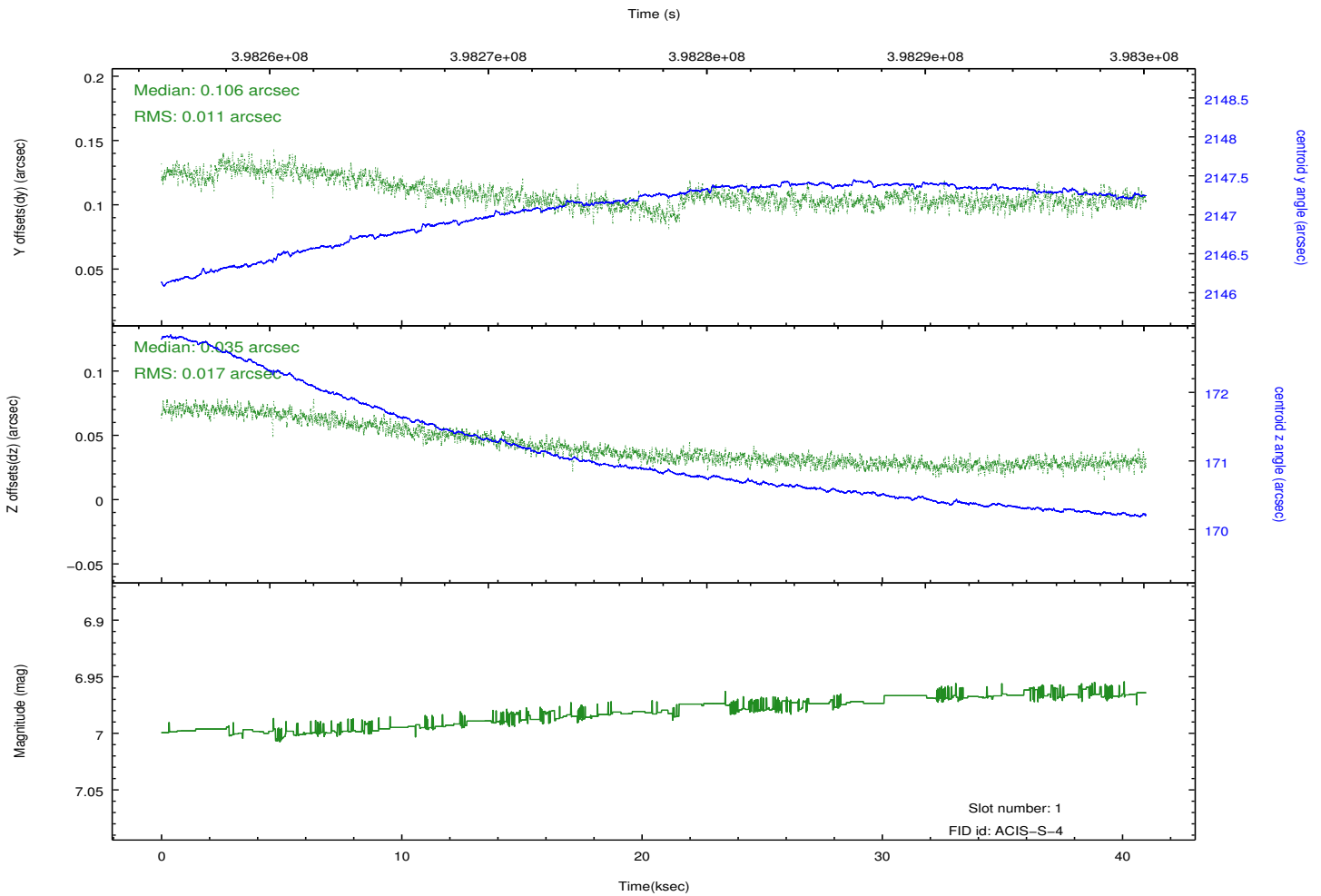
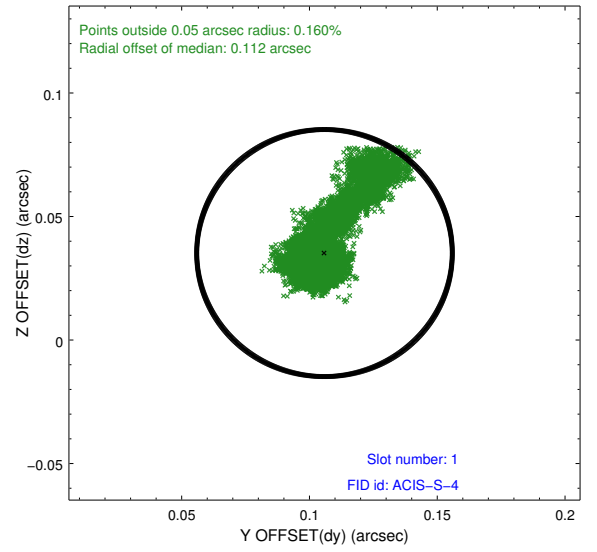
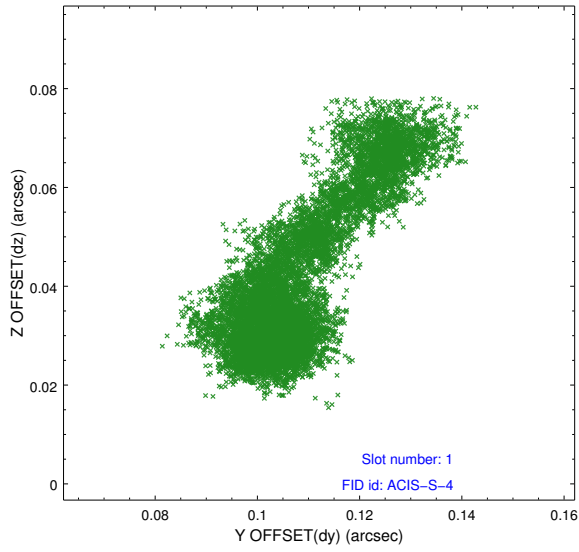


2.5 FID Slots

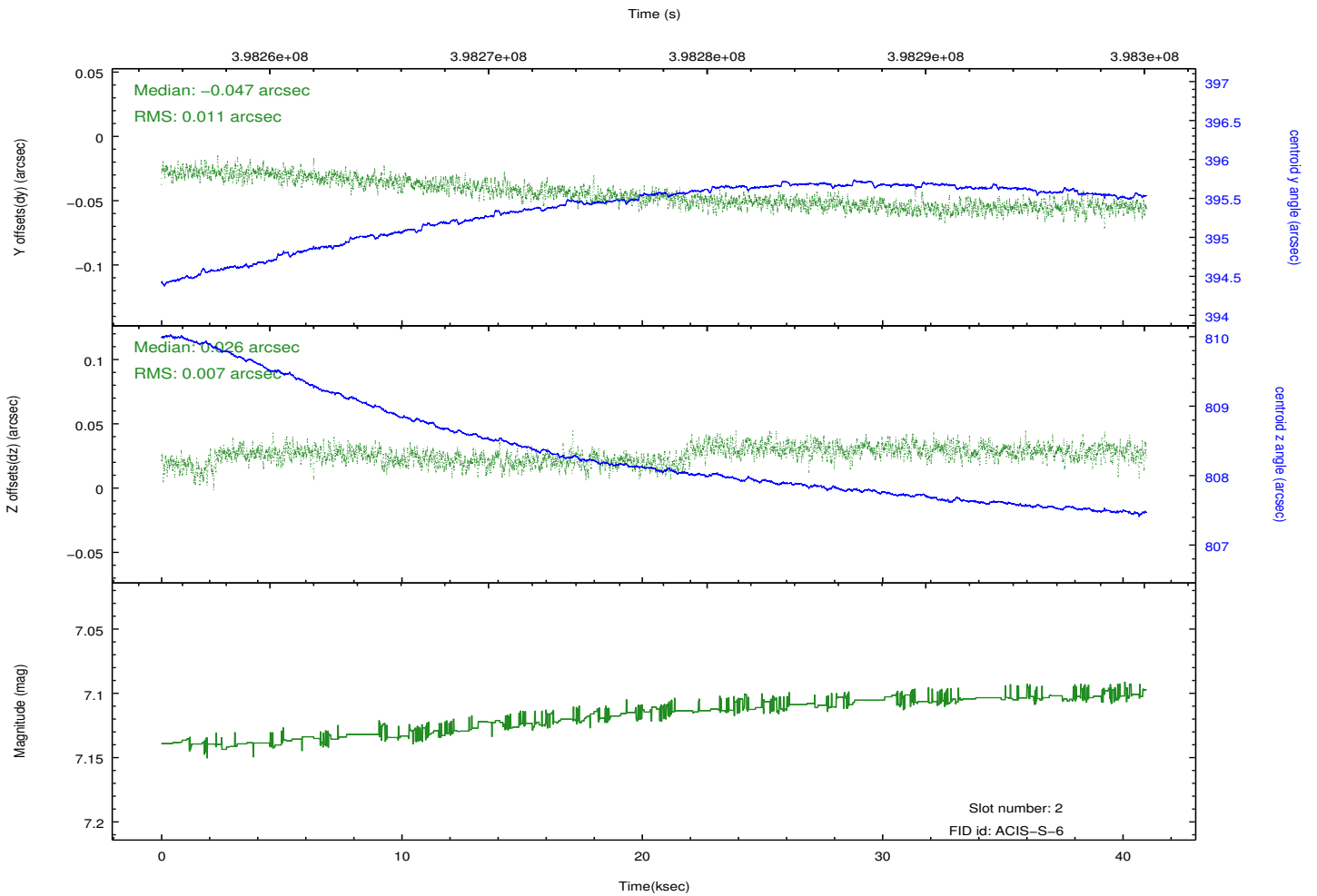
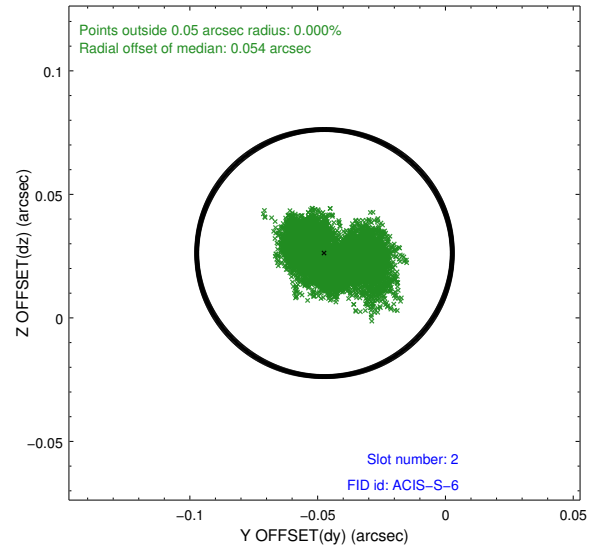
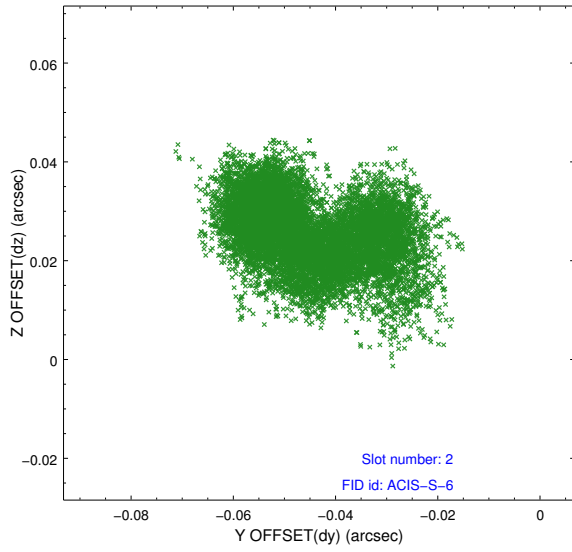
2.5.1 Slot 0



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)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.046732355416

A.2 Comments