

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10139 - L2 Version 2
Chandra X-Ray Center

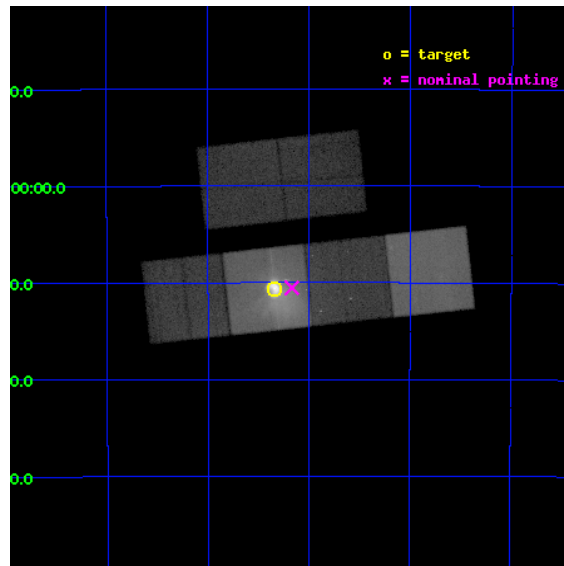
L2 Processing Date : Jul 1 2012

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1 Front

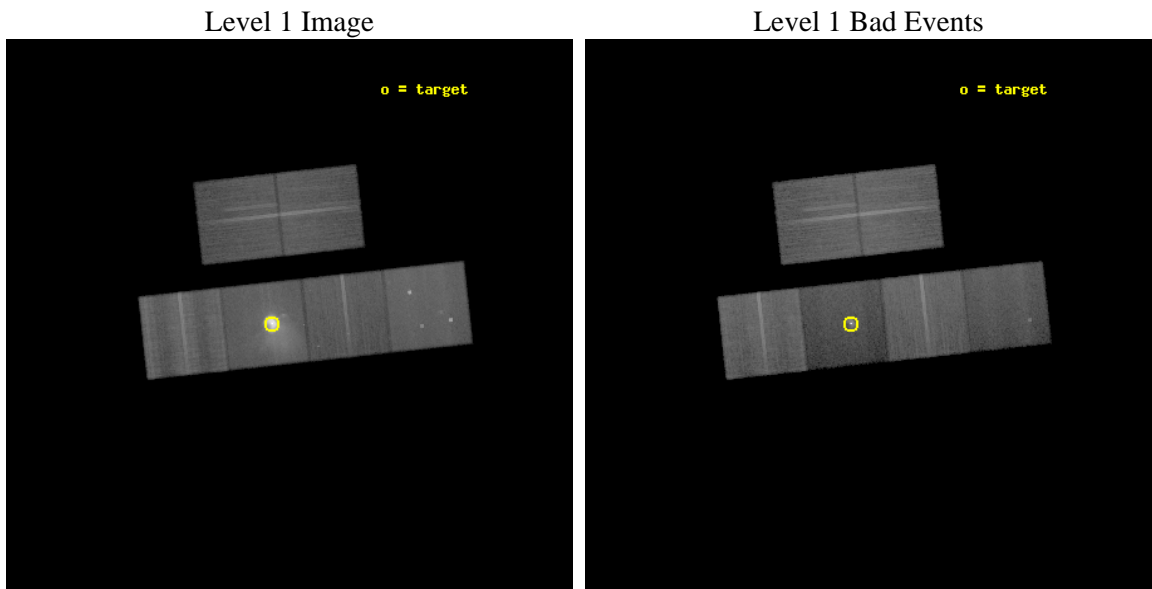
seq_num	501066	Sequence number
obs_id	10139	Observation id
title	The Unique Dynamical Vela Pulsar Wind Nebula	Proposal title
observer	Dr. George Pavlov	Principal investigator
object	Vela PWN	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.83625	Observer's specified target RA [deg]
dec_targ	-45.176583	Observer's specified target Dec [deg]
ra_nom	128.7924479462	Nominal RA [deg]
dec_nom	-45.175691368207	Nominal Dec [deg]
roll_nom	173.74478386138	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40051.199850857	Sum of GTIs [s]
livetime	39544.047442408	Livetime [s]
ontime2	40051.199850857	Sum of GTIs [s]
ontime3	40051.199850857	Sum of GTIs [s]
ontime5	40051.199850857	Sum of GTIs [s]
ontime6	40051.199850857	Sum of GTIs [s]
ontime7	40051.199850857	Sum of GTIs [s]
ontime8	40051.199850857	Sum of GTIs [s]
l2events	1000024	Number of level 2 events



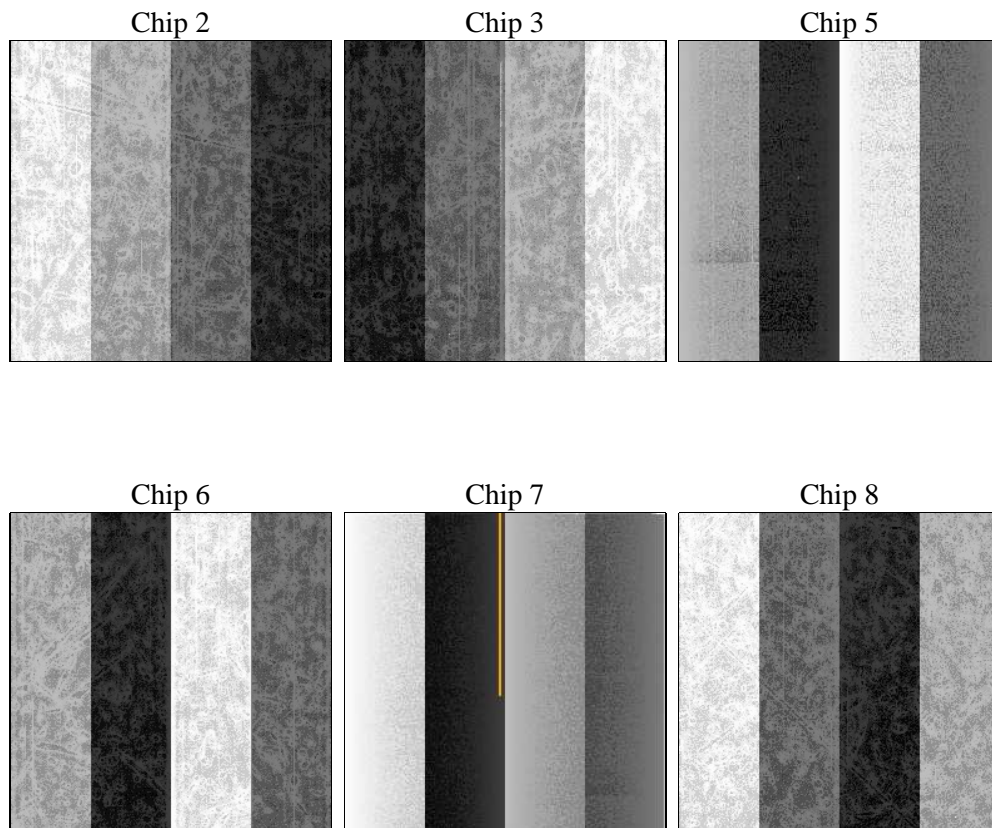
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40051.199850857	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	40051.199850857	Sum of GTIs [s]
date	2012-07-01T04:00:15	Date and time of file creation	ontime3	40051.199850857	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	40051.199850857	Sum of GTIs [s]
			ontime6	40051.199850857	Sum of GTIs [s]
			ontime7	40051.199850857	Sum of GTIs [s]
			ontime8	40051.199850857	Sum of GTIs [s]
			l1events	2274379	Number of level 1 events

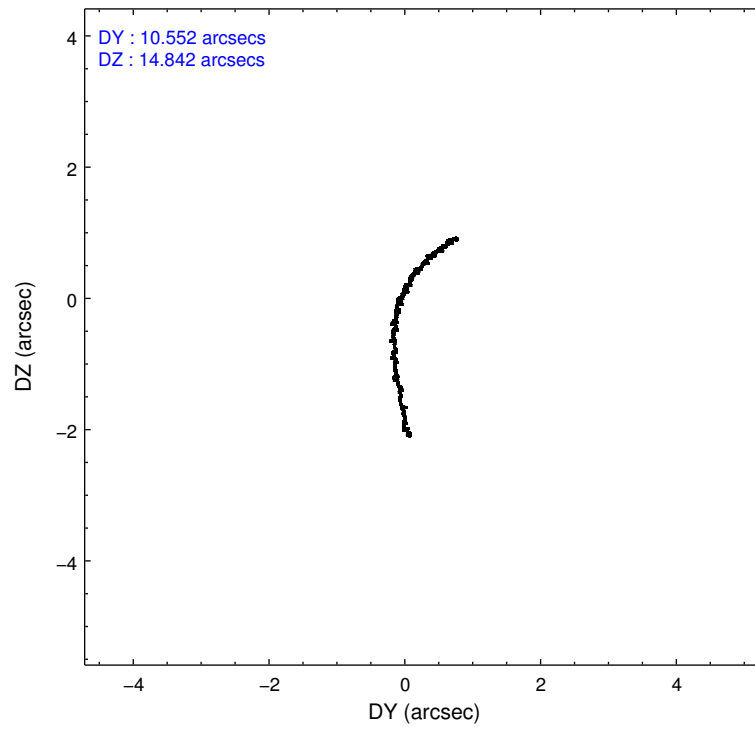
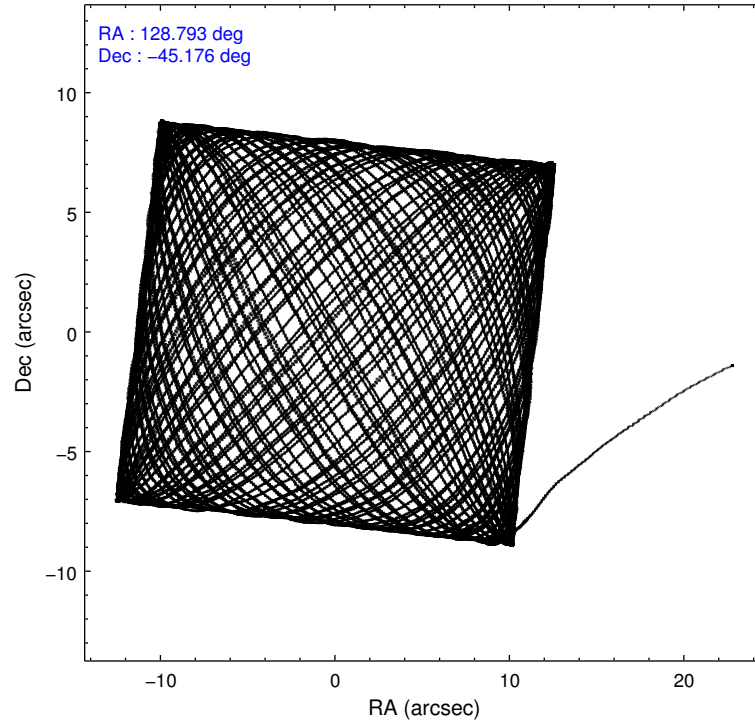
2.1.4 Events

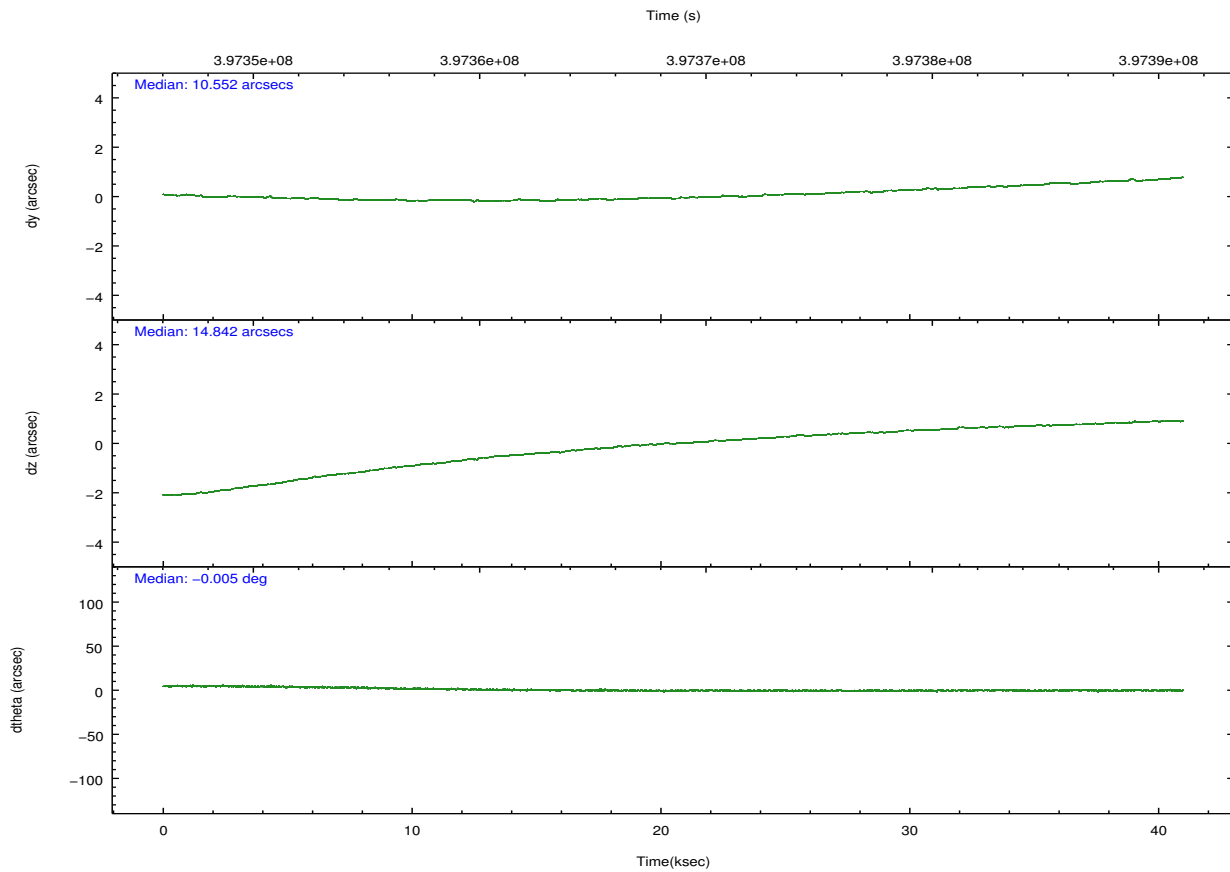
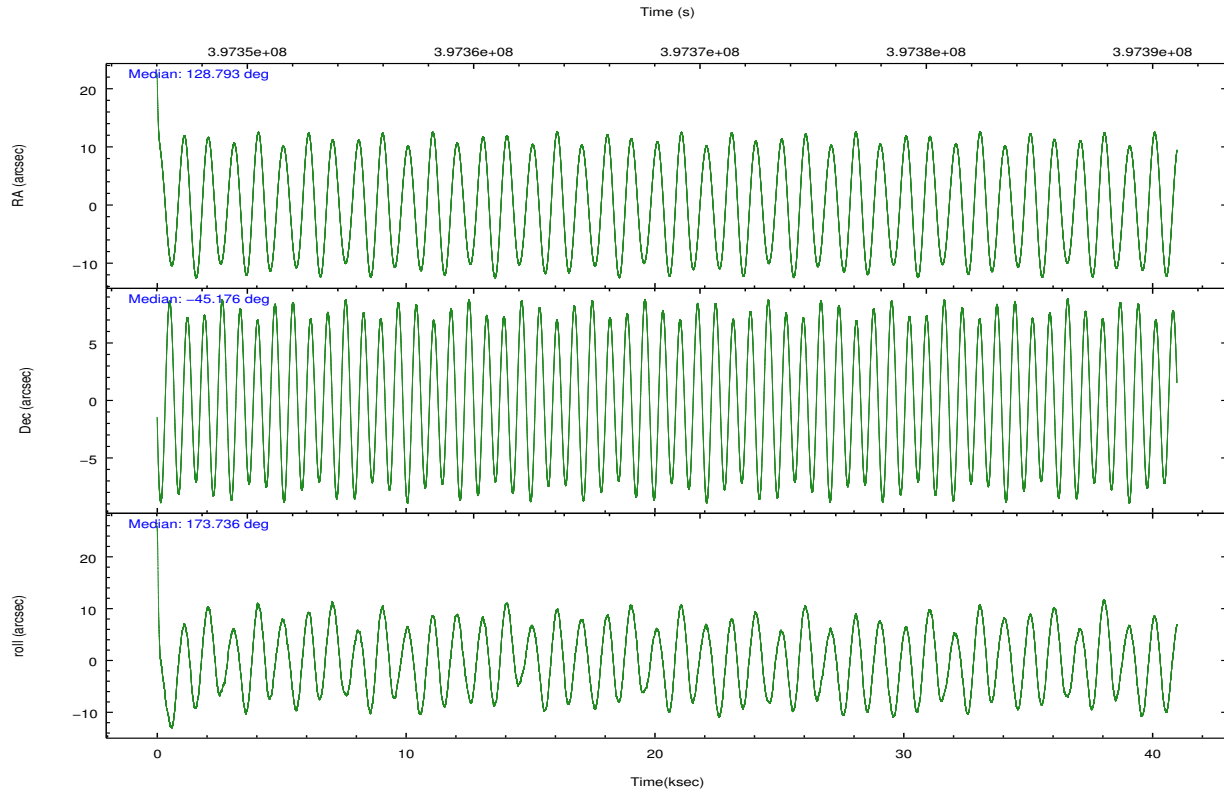
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	279993	256959	358363	284123	734499	360442	grade 0 events	25245	26390	56540	41343	179715	58342
rejected events	236578	213859	130969	221499	117329	222966		9%	10%	15%	14%	24%	16%
rejected %	84%	83%	36%	77%	15%	61%	grade 1 events	230	222	1398	251	1593	459
								0%	0%	0%	0%	0%	0%
							grade 2 events	7855	6531	64812	8898	155907	24693
								2%	2%	18%	3%	21%	6%
							grade 3 events	2798	2963	11487	3550	67065	14868
								0%	1%	3%	1%	9%	4%
							grade 4 events	3006	2839	11064	3378	65655	13719
								1%	1%	3%	1%	8%	3%
							grade 5 events	6458	7587	24196	7753	28104	12427
								2%	2%	6%	2%	3%	3%
							grade 6 events	4515	4382	83499	5458	148879	25858
								1%	1%	23%	1%	20%	7%
							grade 7 events	229886	206045	105367	213492	87581	210076
								82%	80%	29%	75%	11%	58%

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	128.827722	128.792447946198	CCD I2 on	O2	Y
[deg] Pointing Dec	-45.164337	-45.1756913682071	CCD I3 on	Y	Y
[deg] Pointing Roll	173.613170	173.7447838613828	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)	397349040.184000	397347022.7103	CCD S5 on	N	N
Observation start date	2010-08-04T22:42:54	2010-08-04T22:10:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	397389040.184000	397389969.7	On-chip summing requested	N	N
Observation end date	2010-08-05T09:49:34	2010-08-05T10:06:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



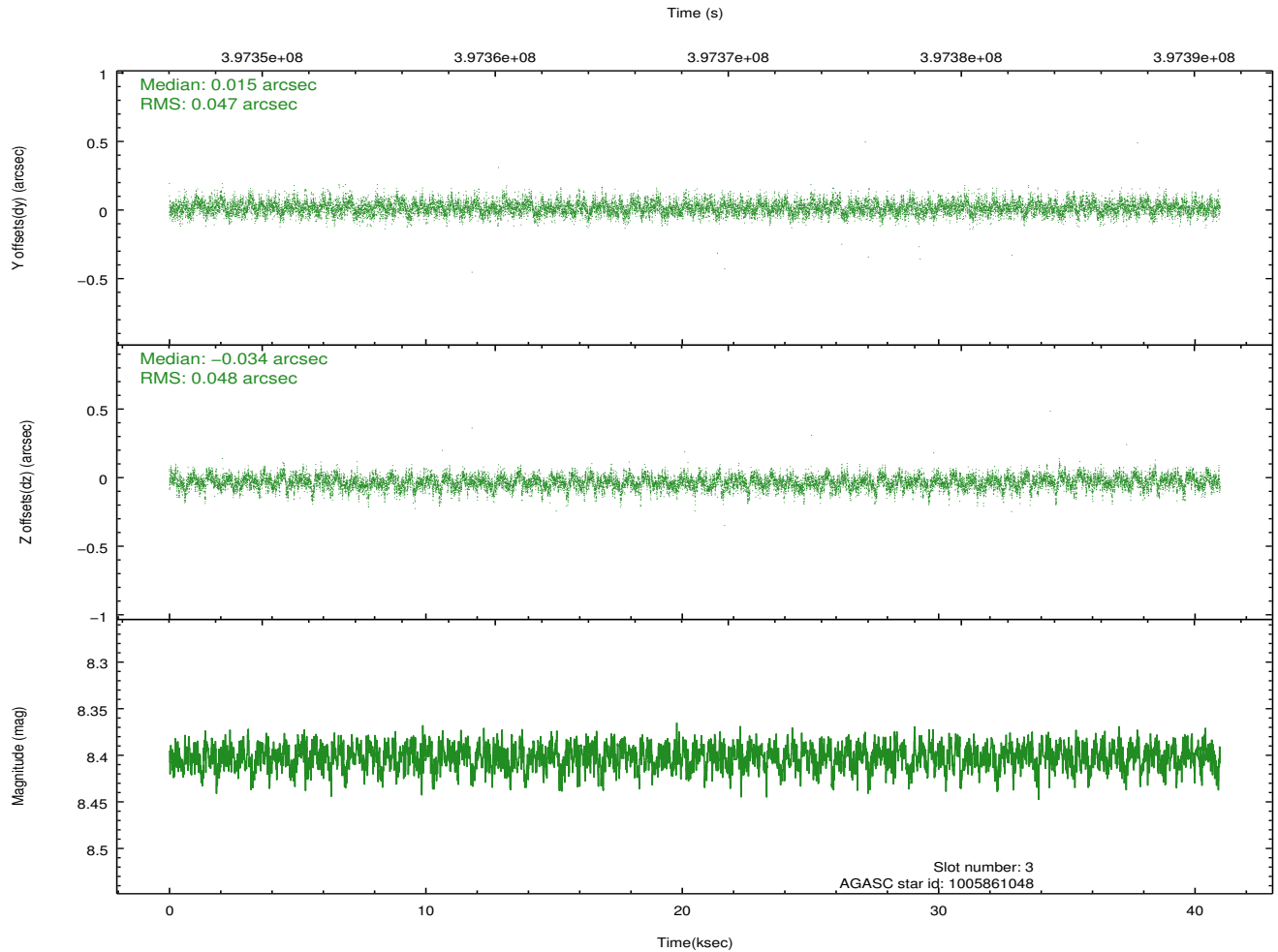
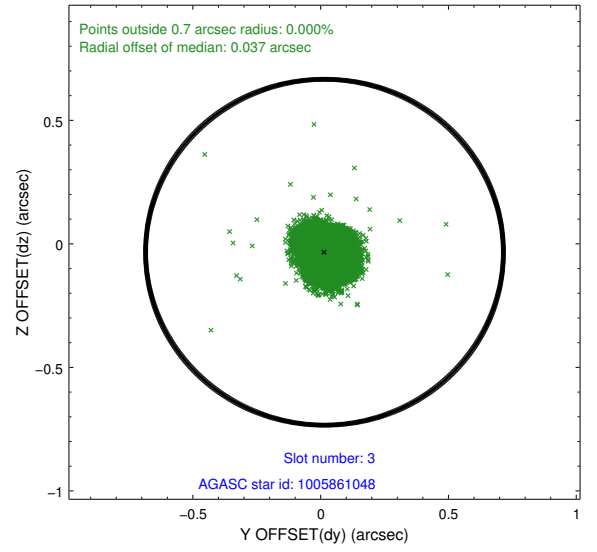
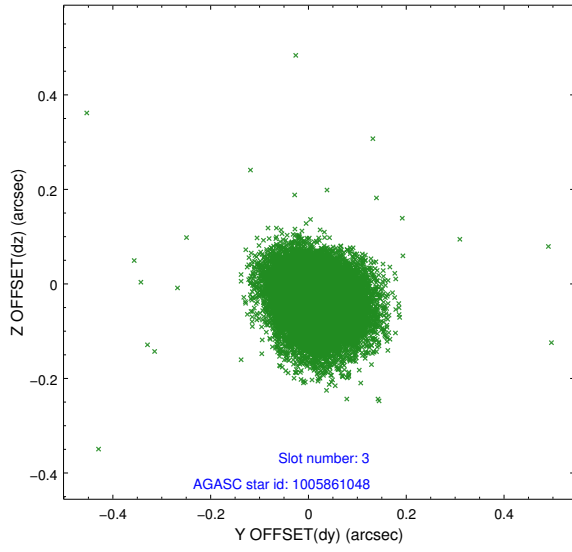


Slot Statistics

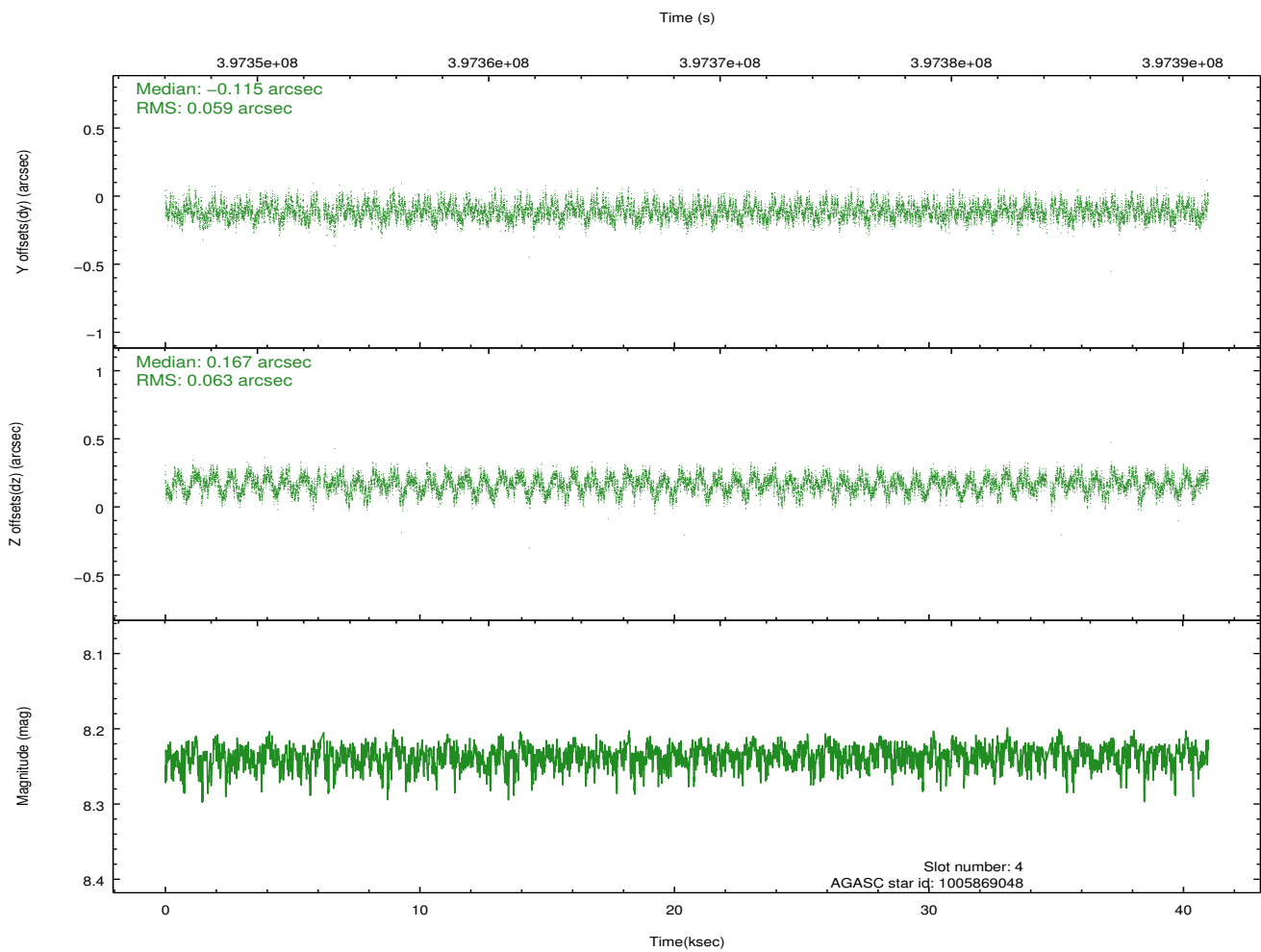
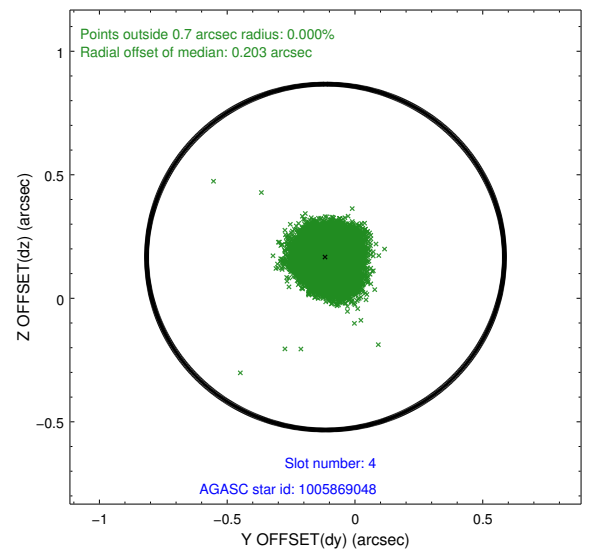
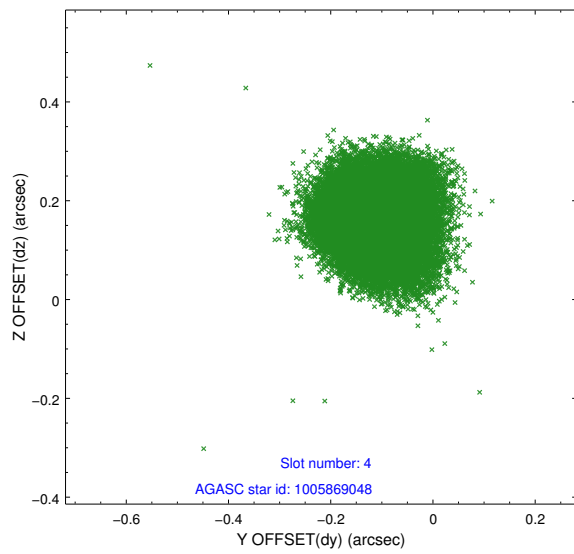
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.98	9996	0.057	-0.035	0.023	0.033	0.000000	0.000000	932.57	-1731.66
1	FID	ACIS-S-5	7.01	9994	-0.140	0.028	0.021	0.028	0.000000	0.000000	-1816.60	165.97
2	FID	ACIS-S-6	7.12	9995	0.060	0.019	0.032	0.043	0.000000	0.000000	398.13	809.91
3	GUIDE	1005861048	8.40	19985	0.015	-0.034	0.070	0.115	128.669106	-44.528323	660.00	-2229.53
4	GUIDE	1005869048	8.24	19855	-0.115	0.167	0.093	0.143	128.429058	-44.495949	1285.55	-2274.59
5	GUIDE	1005871096	9.00	19983	-0.096	0.073	0.072	0.118	128.774147	-44.764566	296.47	-1414.59
6	GUIDE	1005871784	7.99	19986	0.183	-0.108	0.078	0.122	128.533947	-44.544833	997.90	-2130.99
7	GUIDE	1068263200	9.13	19941	0.008	-0.091	0.093	0.146	128.222628	-45.344390	1449.13	820.31

2.4 Star Slots

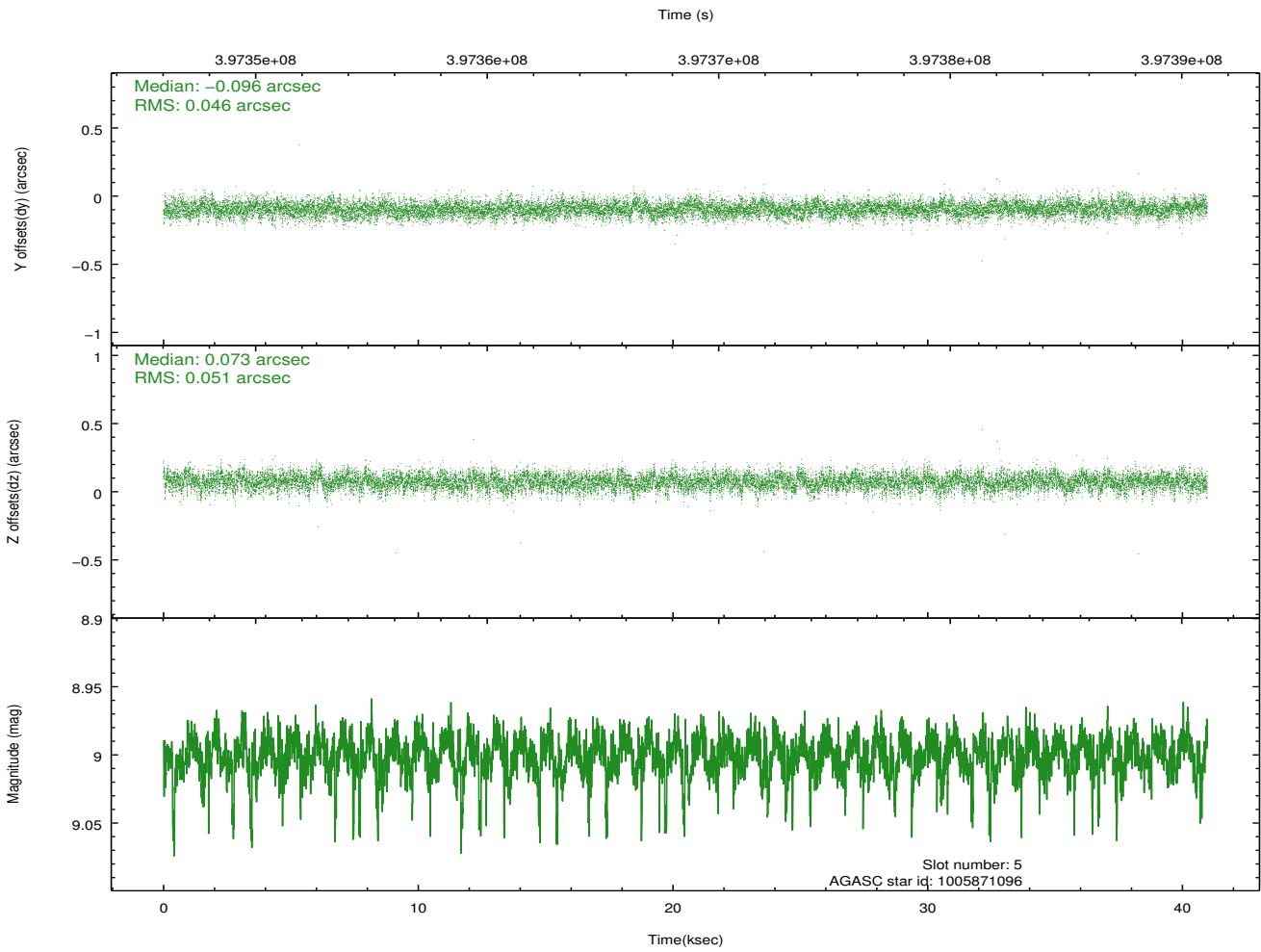
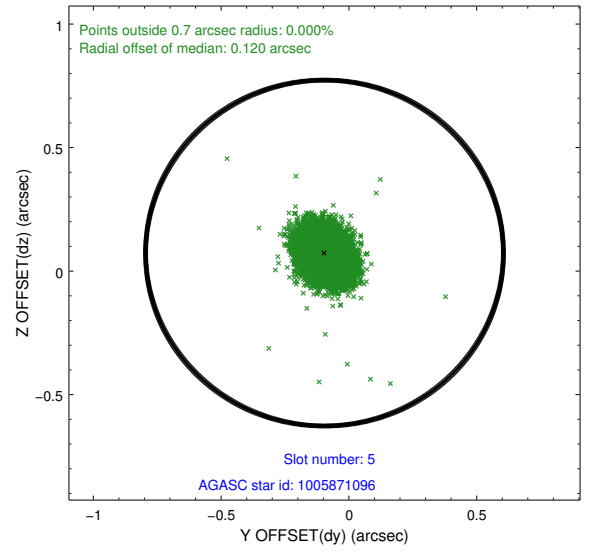
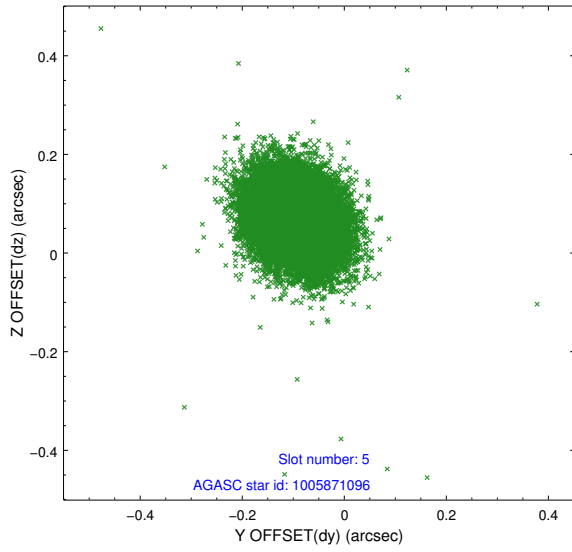
2.4.1 Slot 3



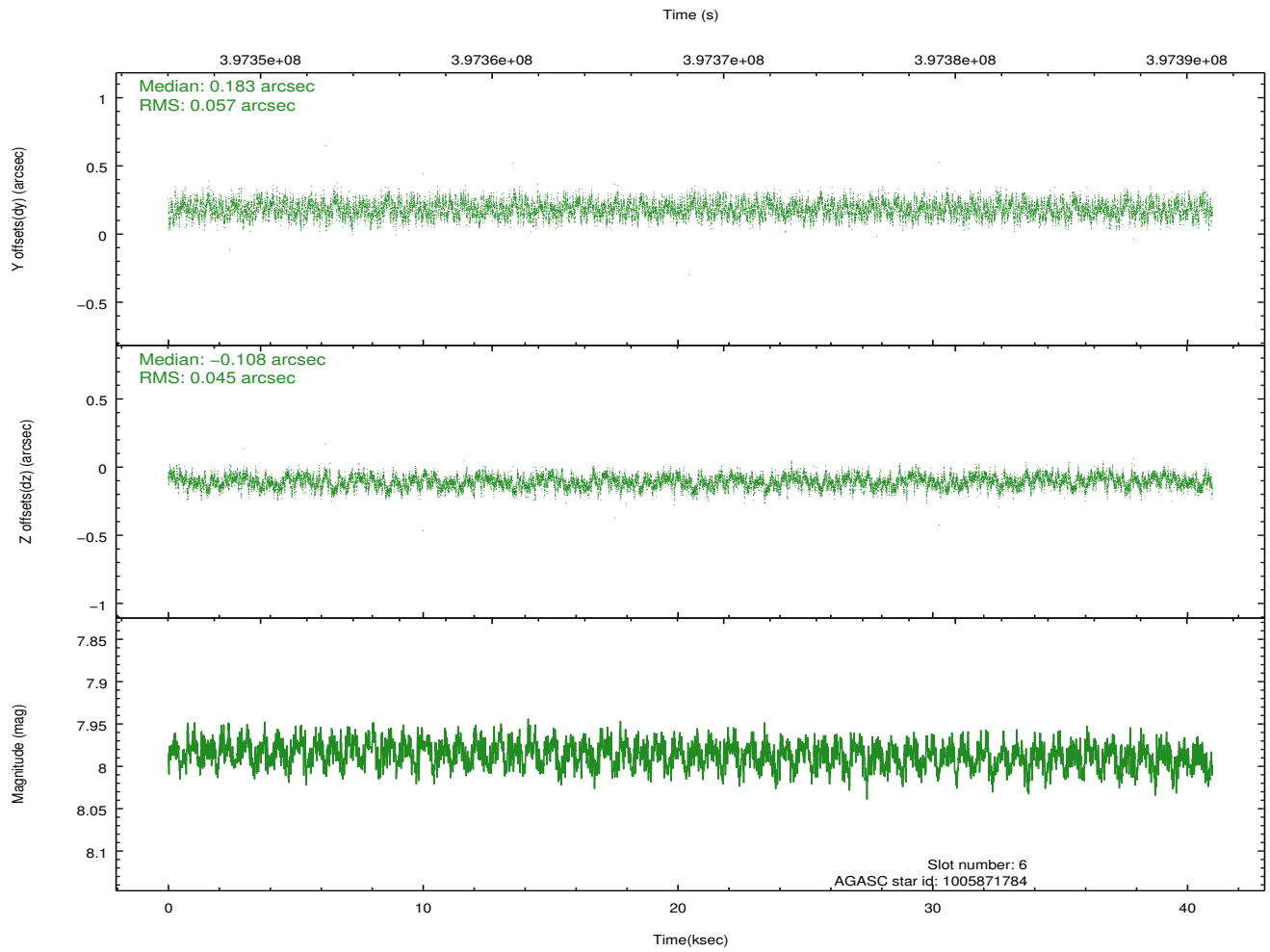
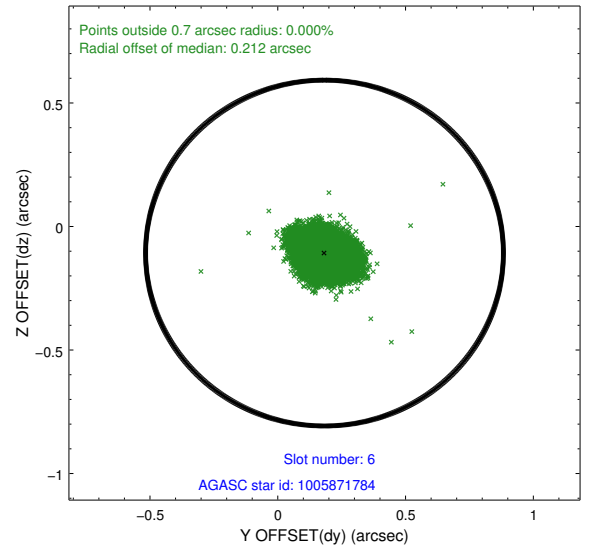
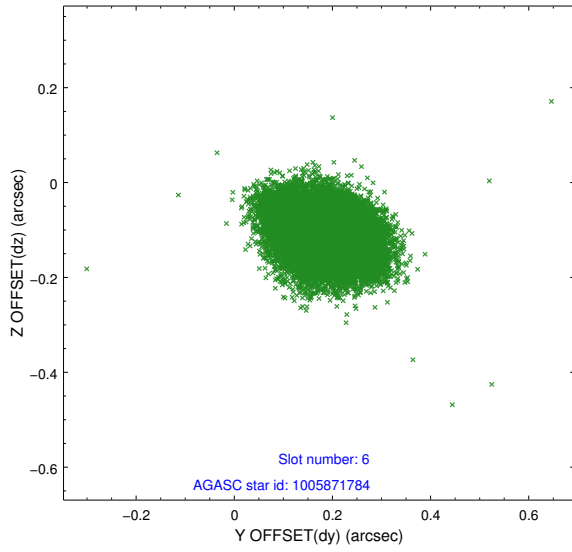
2.4.2 Slot 4



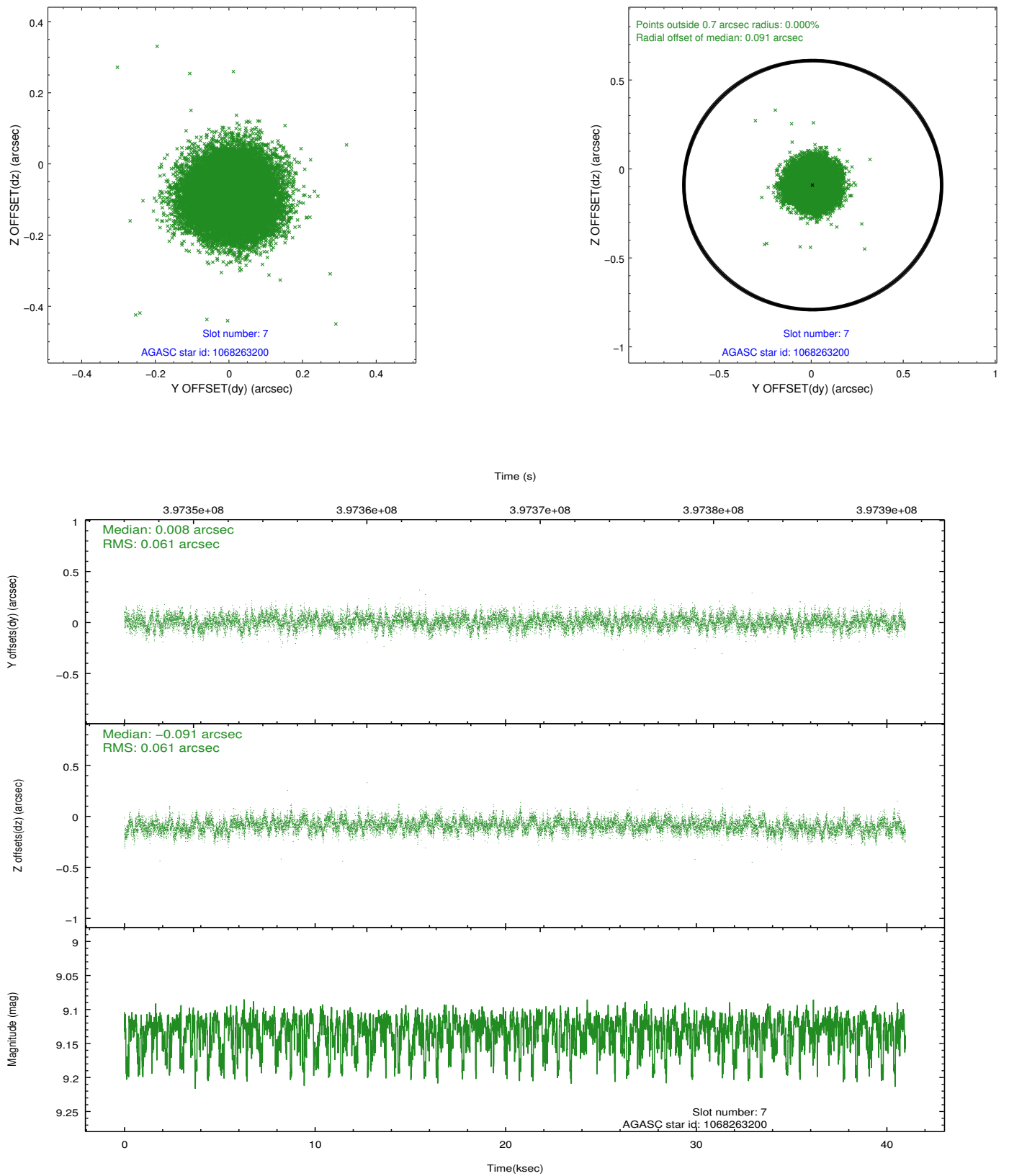
2.4.3 Slot 5



2.4.4 Slot 6

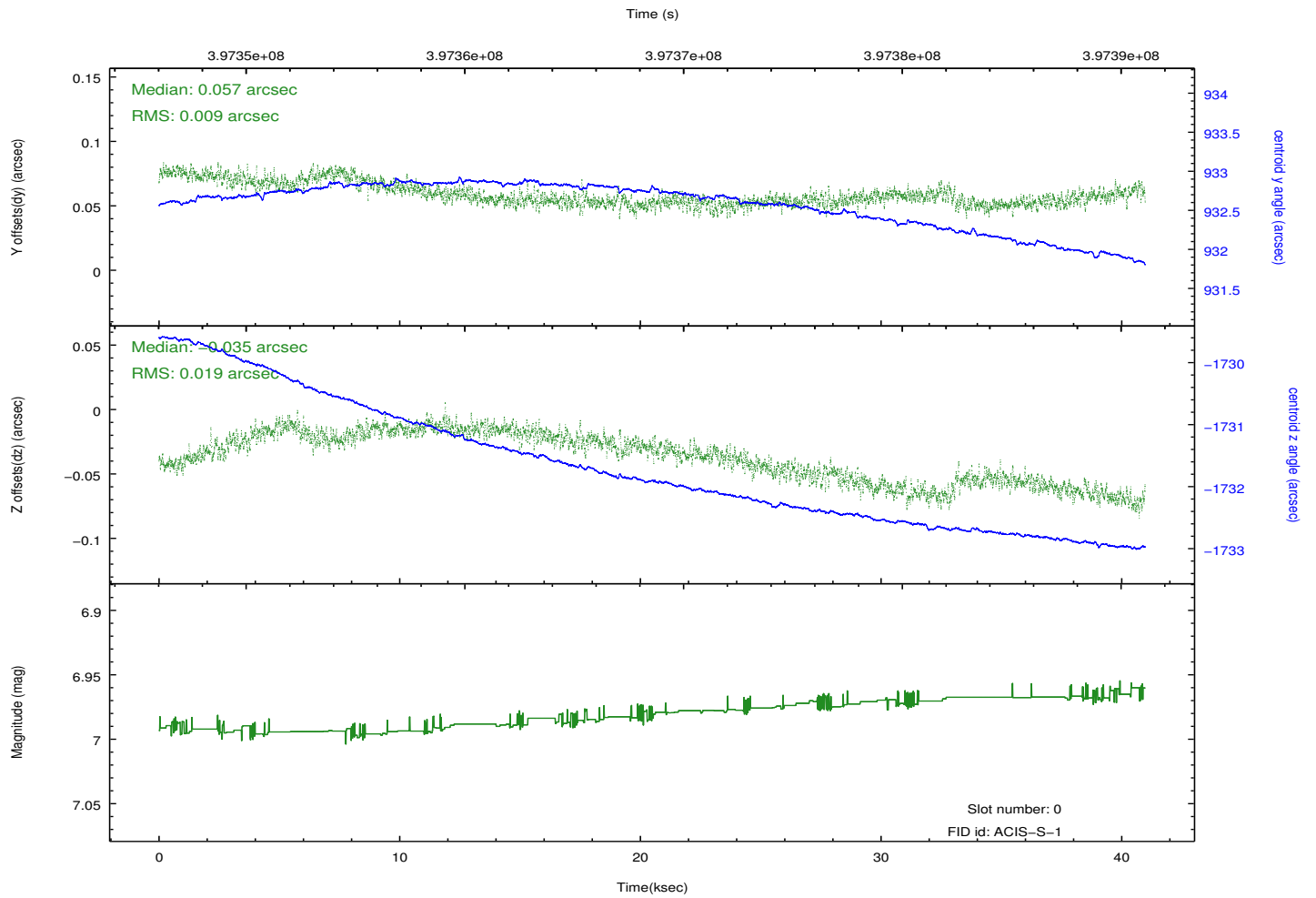
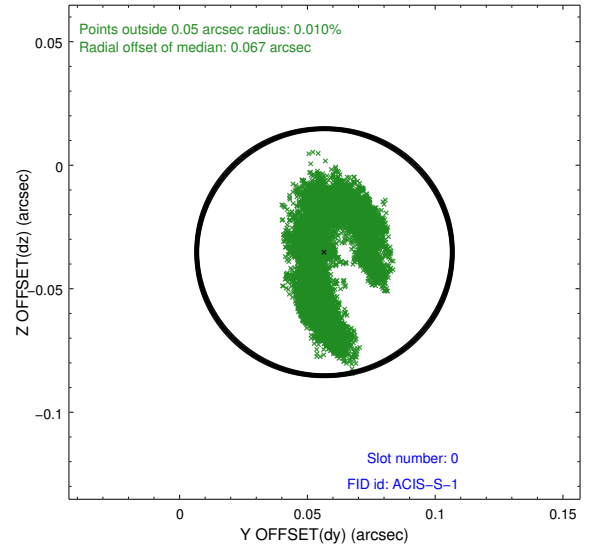
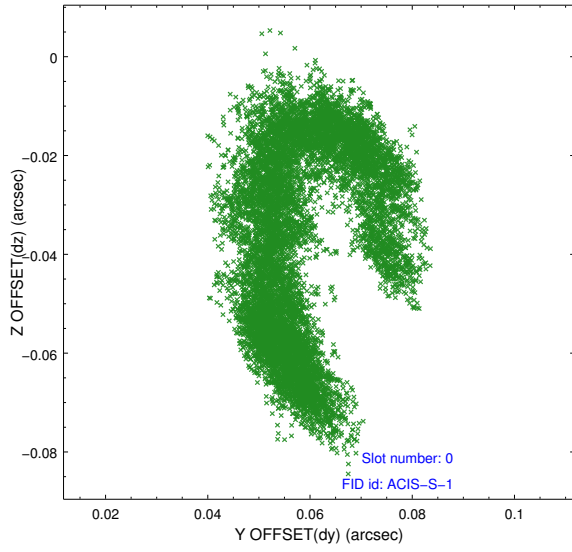


2.4.5 Slot 7

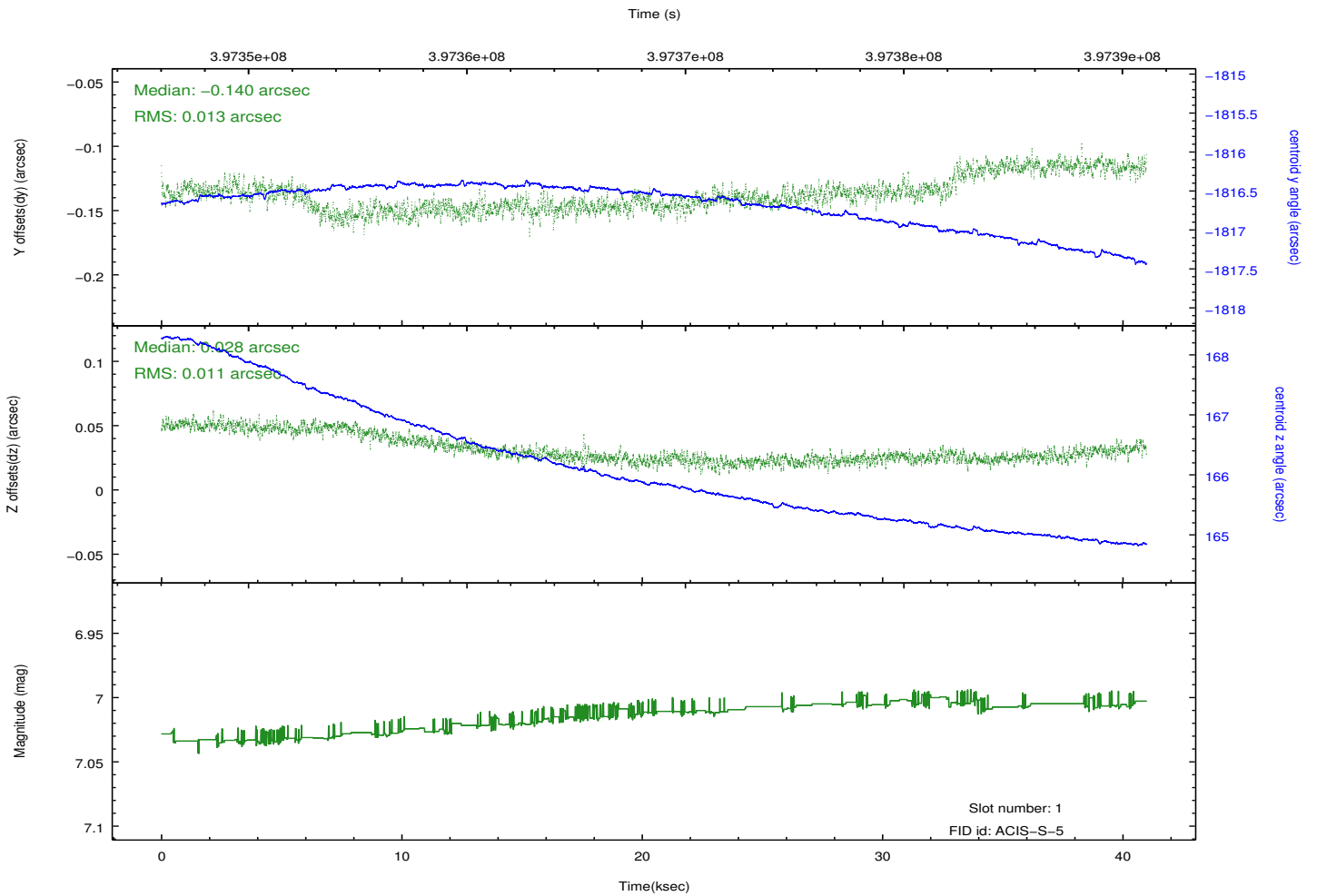
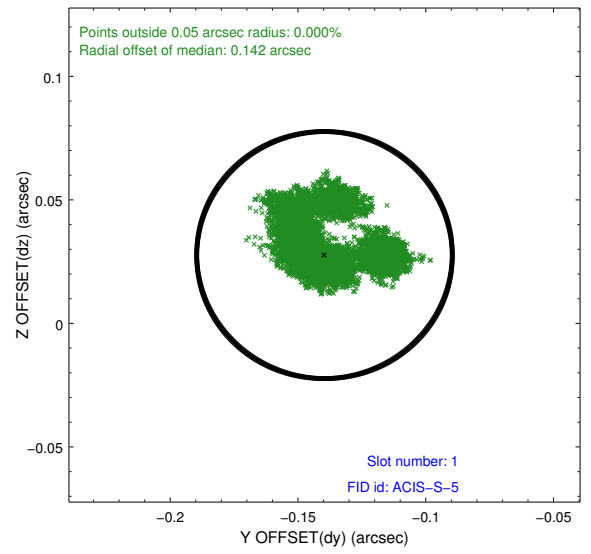
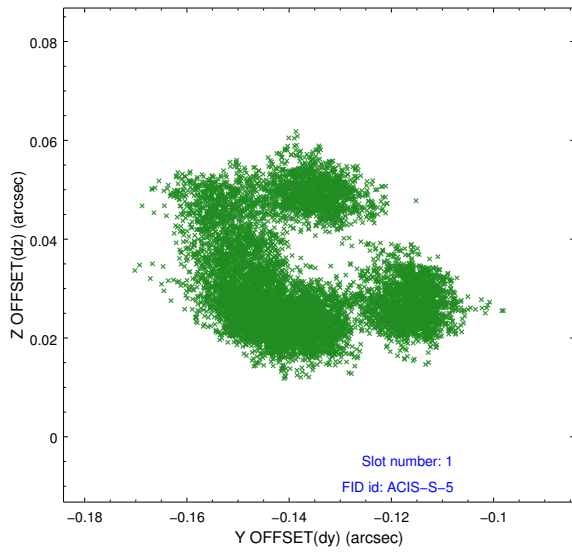


2.5 FID Slots

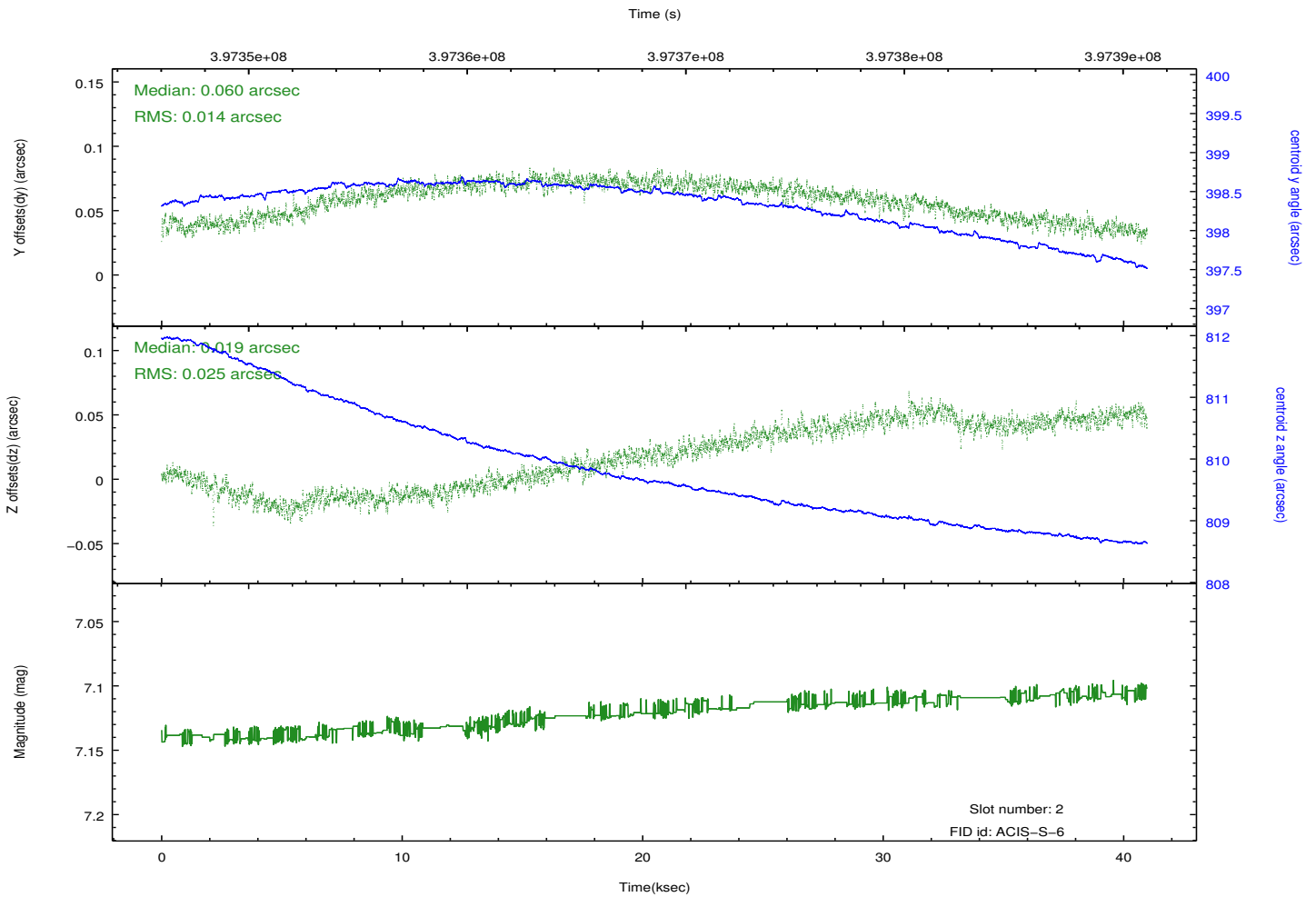
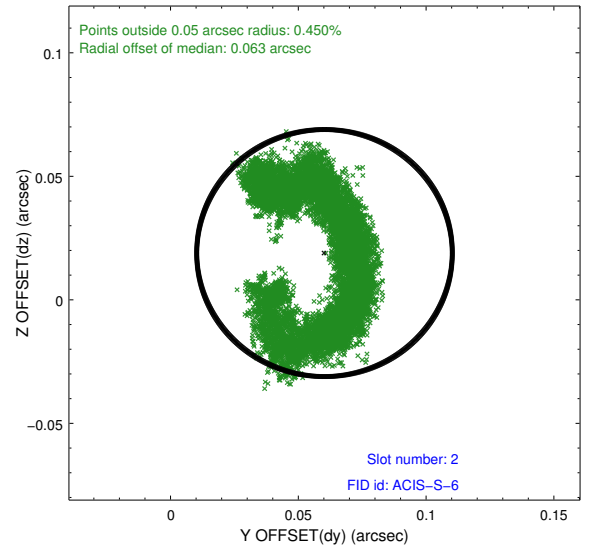
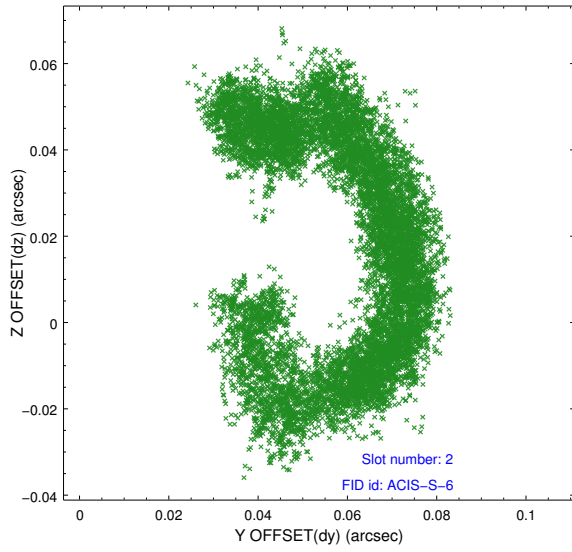
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.051199850857

A.2 Comments

Monitor constraint met, follows obs10138 by 8 days.