

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18692 - L2 Version 1
Chandra X-Ray Center

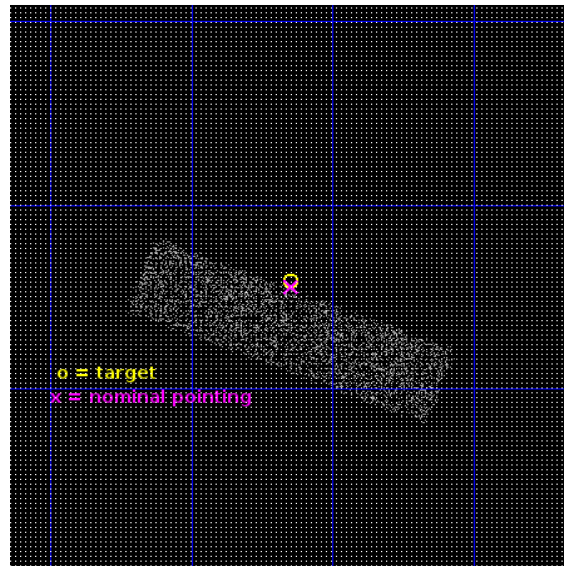
L2 Processing Date : Jan 11 2017

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1 Front

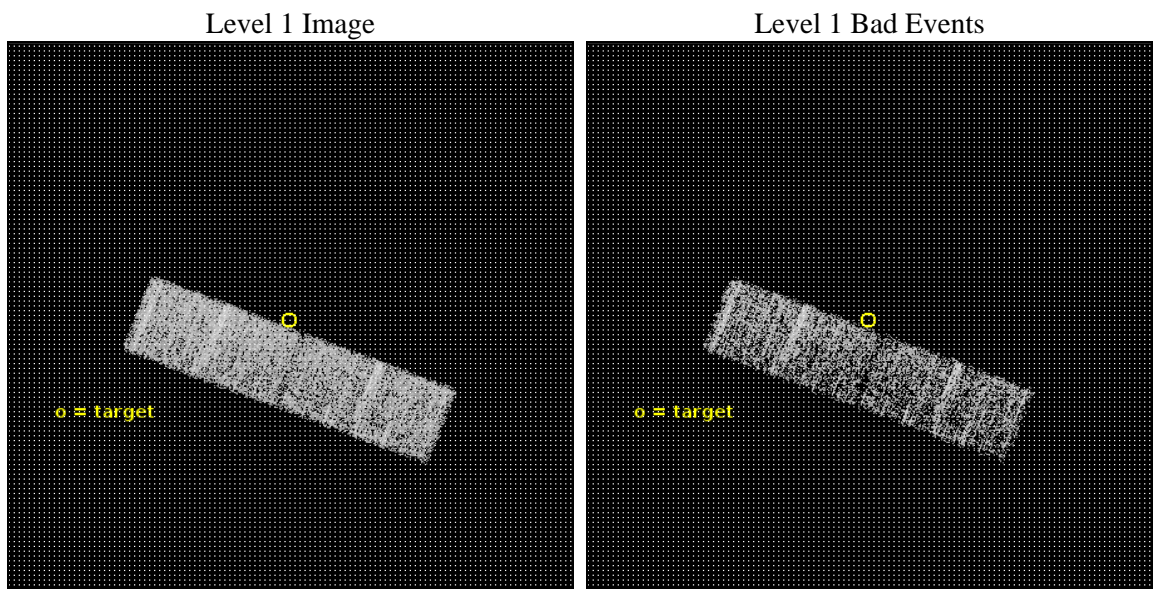
seq_num	100153	Sequence number
obs_id	18692	Observation id
title	Venus in an intermediate phase of the solar cycle	Proposal title
observer	Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	338.786324	Observer's specified target RA [deg]
dec_targ	-9.735972	Observer's specified target Dec [deg]
ra_nom	338.78636381261	Nominal RA [deg]
dec_nom	-9.7407011583486	Nominal Dec [deg]
roll_nom	291.28484534995	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5835.1720478535	Sum of GTIs [s]
livetime	5689.2429657812	Livetime [s]
ontime0	5835.1310079098	Sum of GTIs [s]
ontime2	5835.1720478535	Sum of GTIs [s]
l2events	3752	Number of level 2 events



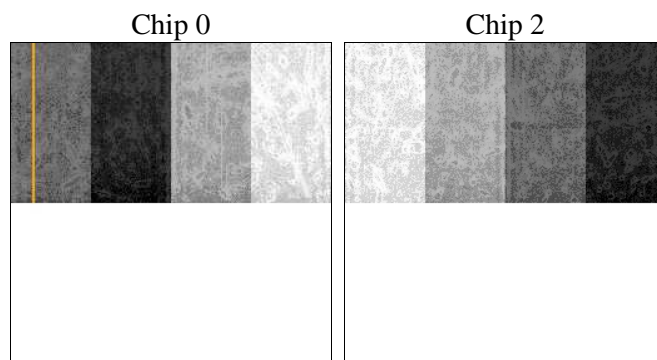
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	5835.1720478535	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	5835.1310079098	Sum of GTIs [s]
date	2017-01-11T11:43:41	Date and time of file creation	ontime2	5835.1720478535	Sum of GTIs [s]
revision	1	Processing version of data	l1events	43008	Number of level 1 events

2.1.4 Events

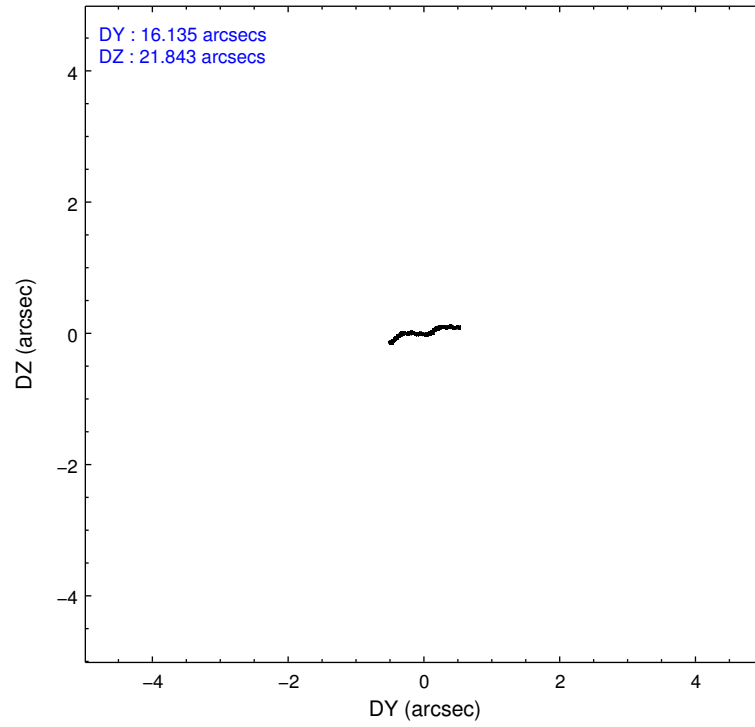
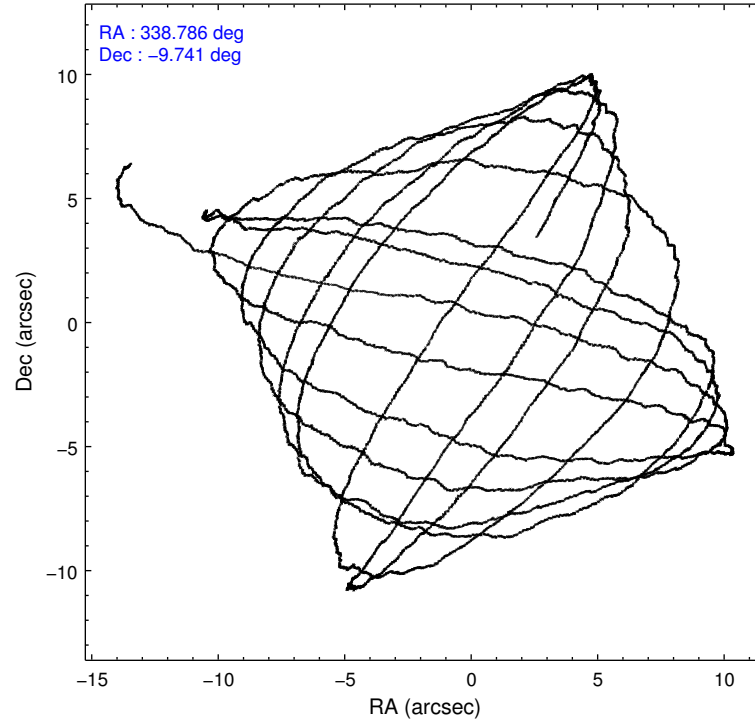
	ccd 0	ccd 2
level 1 events	19535	23473
rejected events	17104	21005
rejected %	87%	89%

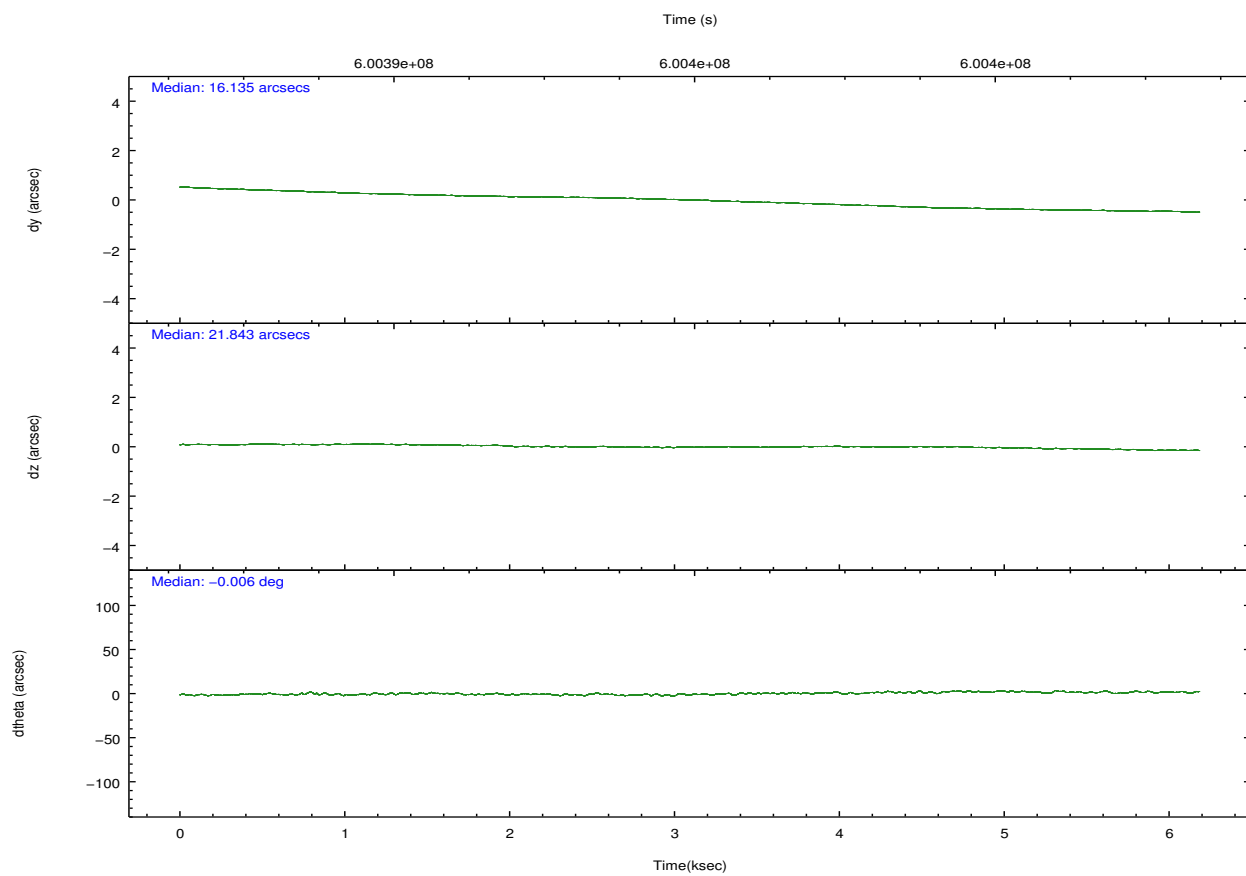
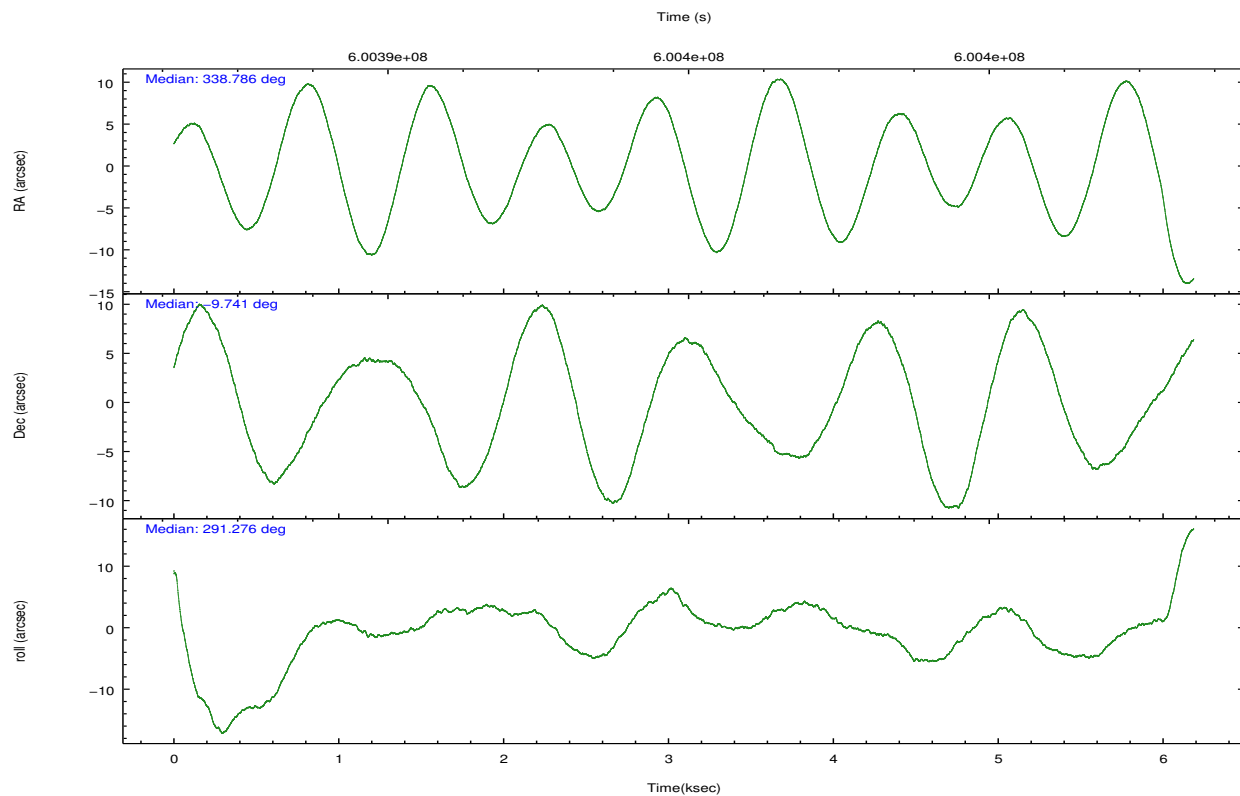
	ccd 0	ccd 2
grade 0 events	779	824
	3%	3%
grade 1 events	8	12
	0%	0%
grade 2 events	615	590
	3%	2%
grade 3 events	316	301
	1%	1%
grade 4 events	280	300
	1%	1%
grade 5 events	893	836
	4%	3%
grade 6 events	442	454
	2%	1%
grade 7 events	16202	20156
	82%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-02	ACIS-02	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	338.764439	338.7863638126082	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-9.723571	-9.740701158348623	Subarray start row	513	513
[deg] Pointing Roll	291.072500	291.2848453499524	Subarray row count	512	512
[s] Window start time (MET)	600134469.184000	600134469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	600652809.184000	600652809.184000	[s] Primary exposure time	0.000000	1.6
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	600393083.184000	600392706.40832			
Observation start date	2017-01-09T23:50:14	2017-01-09T23:45:06			
[s] Observation end time (MET)	600399083.184000	600399216.18369			
Observation end date	2017-01-10T01:30:14	2017-01-10T01:33:36			
Read mode	TIMED	TIMED			

2.3 Aspect



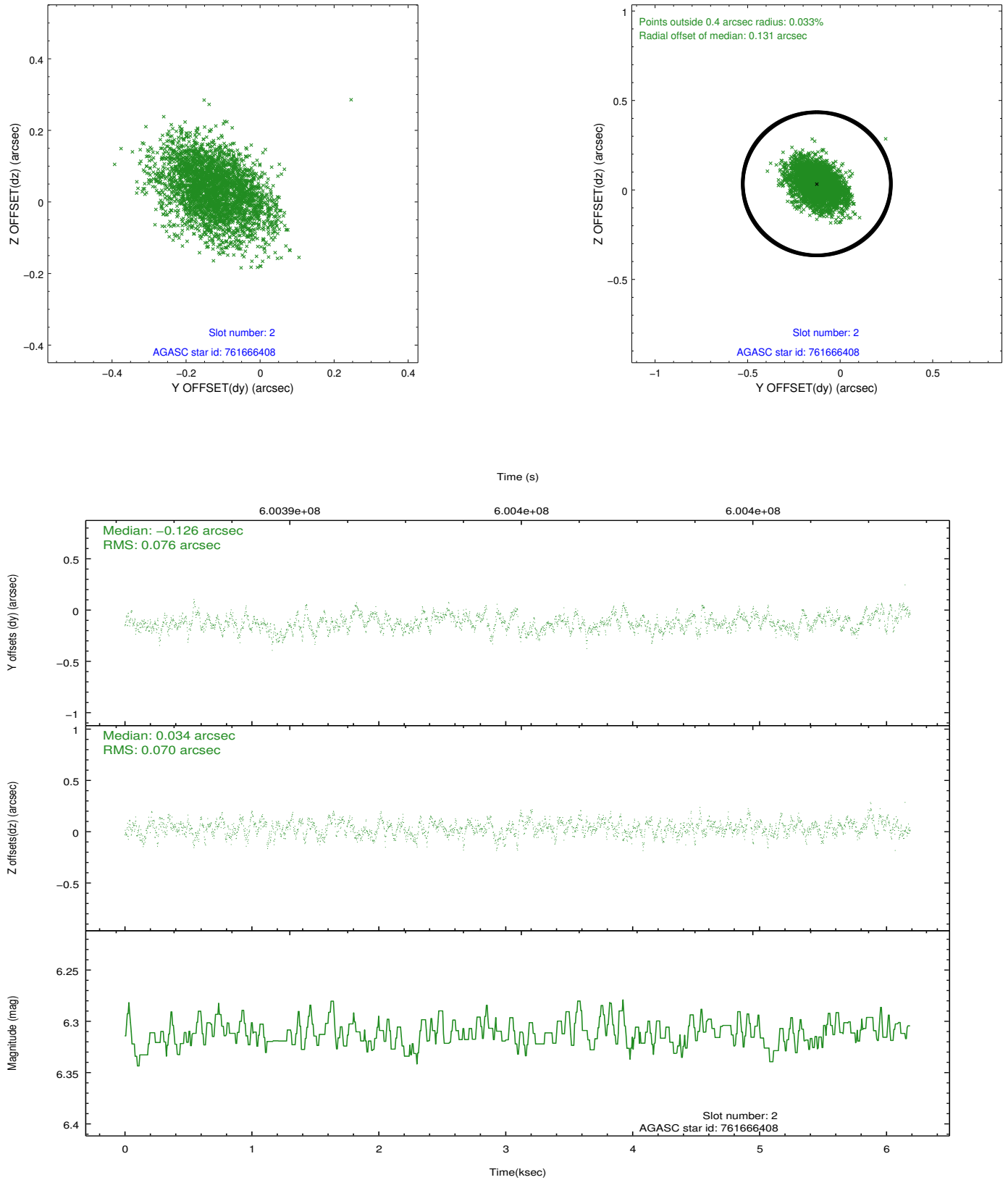


Slot Statistics

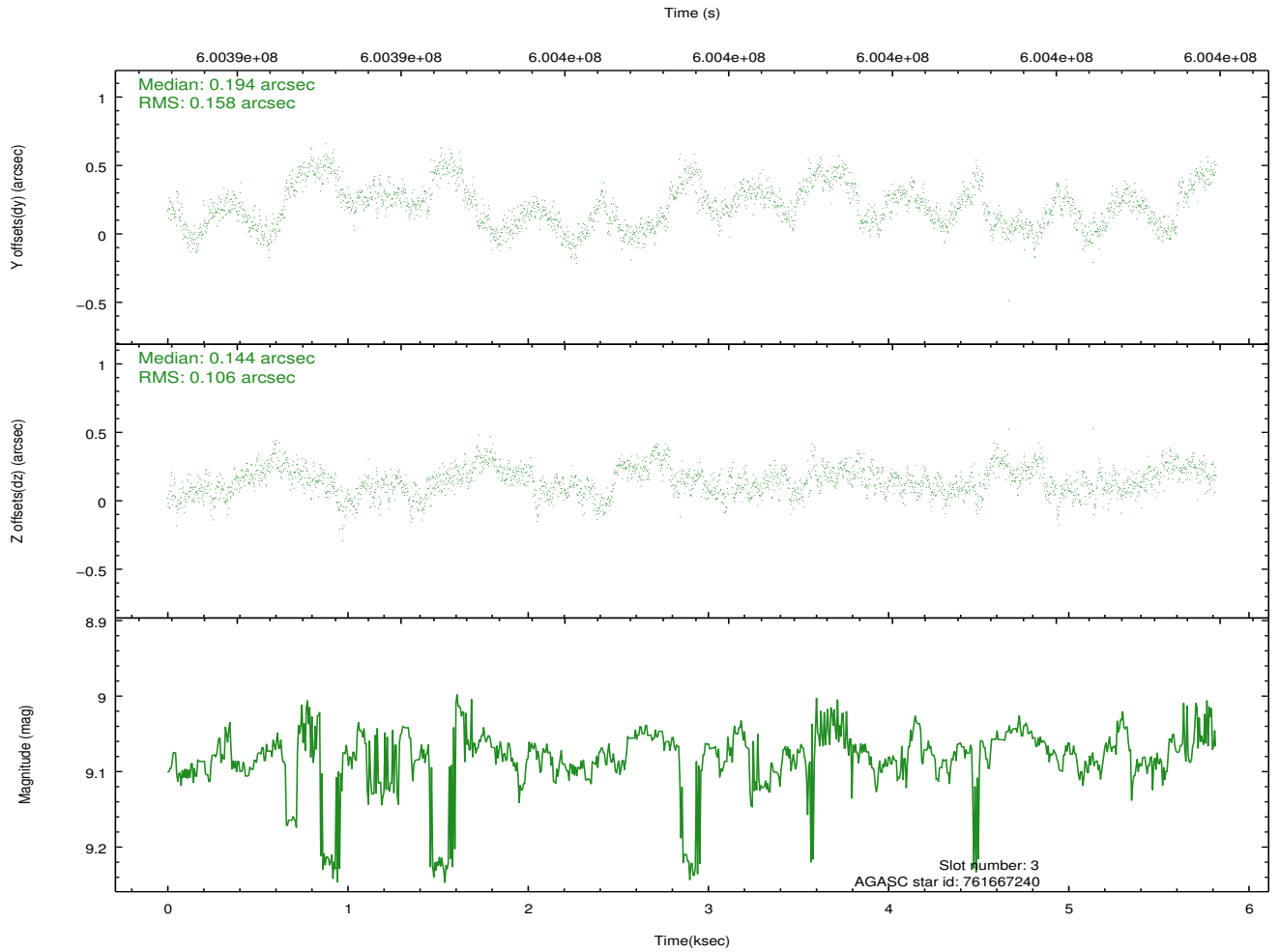
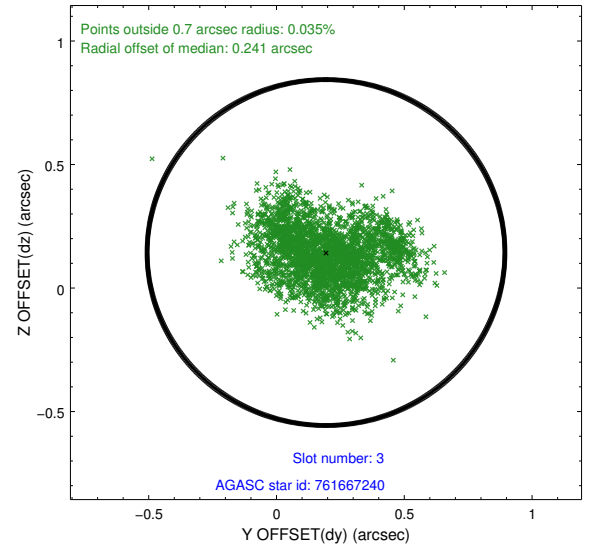
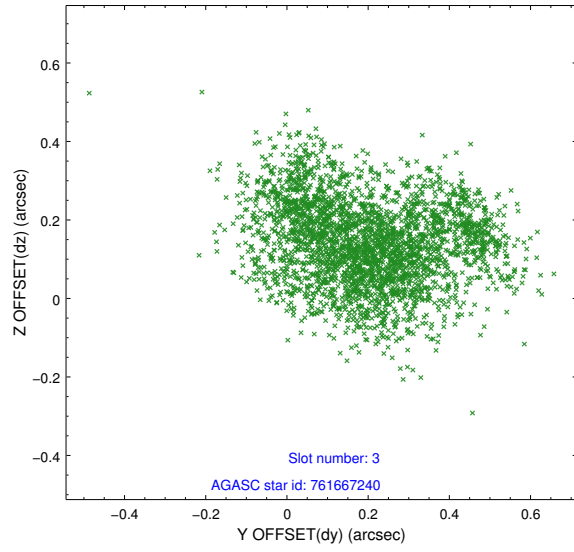
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.07	1509	-0.004	-0.029	0.009	0.017	0.000000	0.000000	-770.79	-852.08
1	FID		ACIS-I-5	7.18	1509	-0.060	0.077	0.009	0.017	0.000000	0.000000	-1825.52	1051.31
2	GUIDE	used	761666408	6.31	3019	-0.126	0.034	0.109	0.180	338.527561	-9.608492	-688.26	-635.69
3	GUIDE	used	761667240	9.08	2837	0.194	0.144	0.209	0.314	338.639466	-9.137380	-2128.70	344.09
4	GUIDE	used	761672120	8.08	3019	-0.108	-0.308	0.112	0.178	339.232283	-9.389338	-525.01	1982.94
5	GUIDE	used	761672136	8.54	3016	-0.095	-0.108	0.111	0.186	339.196147	-9.393141	-557.97	1859.03
6	GUIDE	used	761670696	9.32	3015	0.243	0.391	0.182	0.282	338.284918	-9.212445	-2327.93	-928.05
7	GUIDE	used	761670320	9.19	3016	-0.089	-0.139	0.178	0.322	339.180611	-8.948429	-2071.89	2383.81

2.4 Star Slots

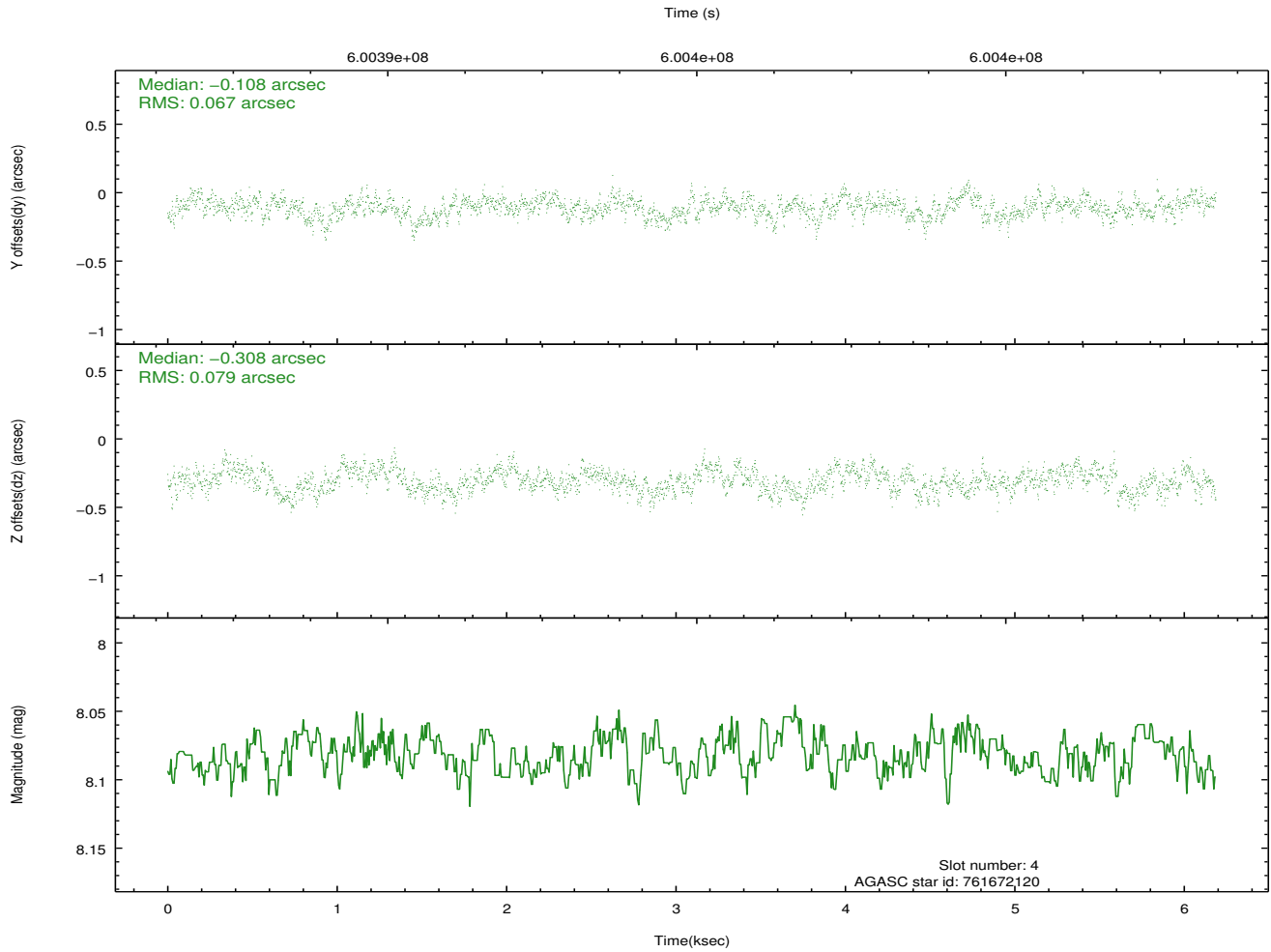
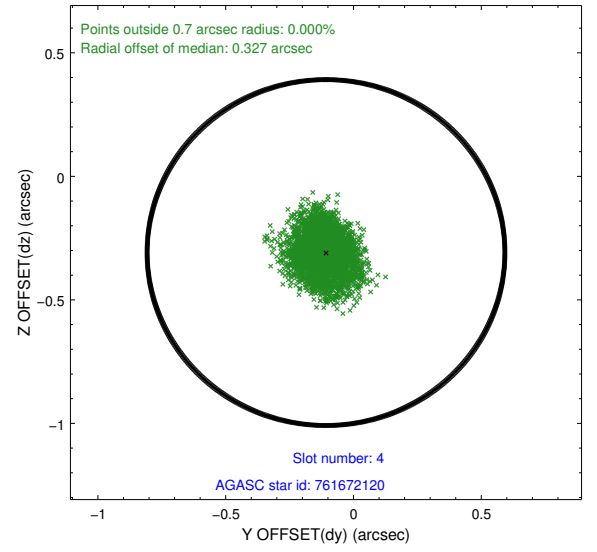
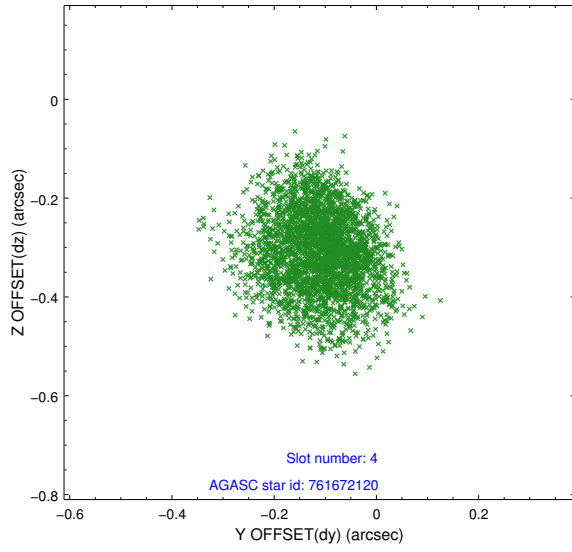
2.4.1 Slot 2



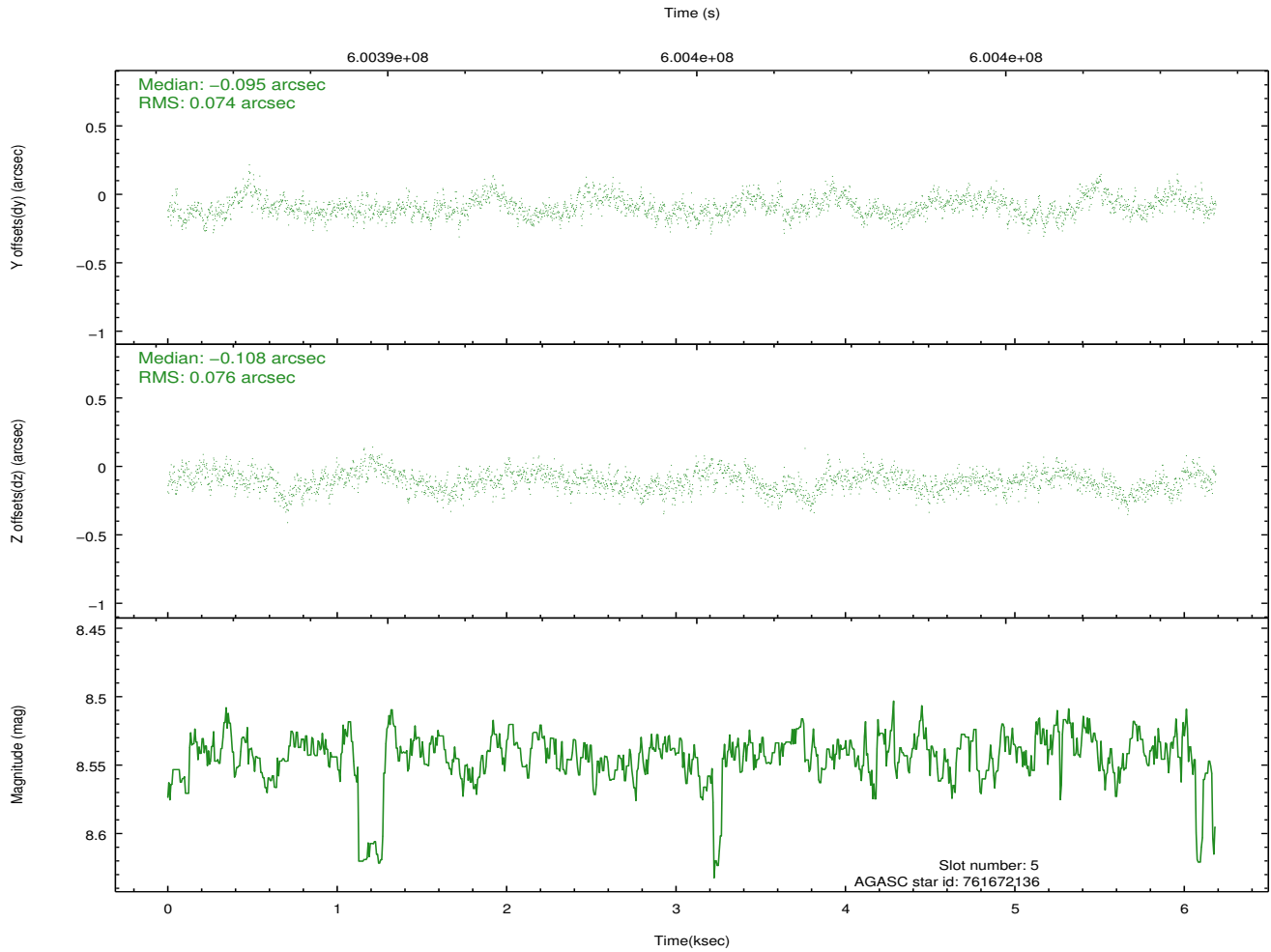
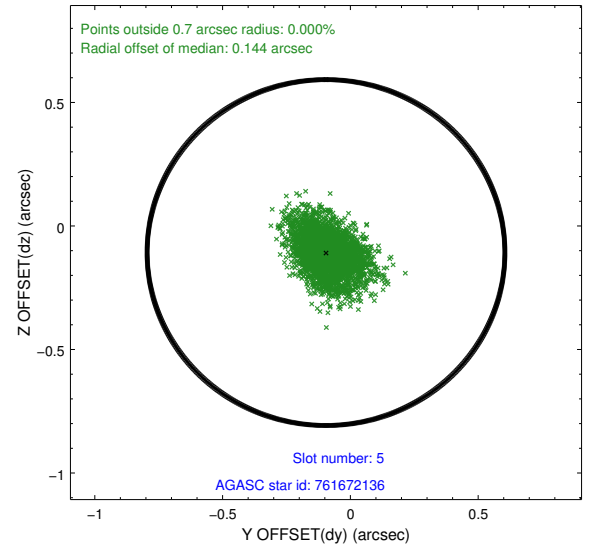
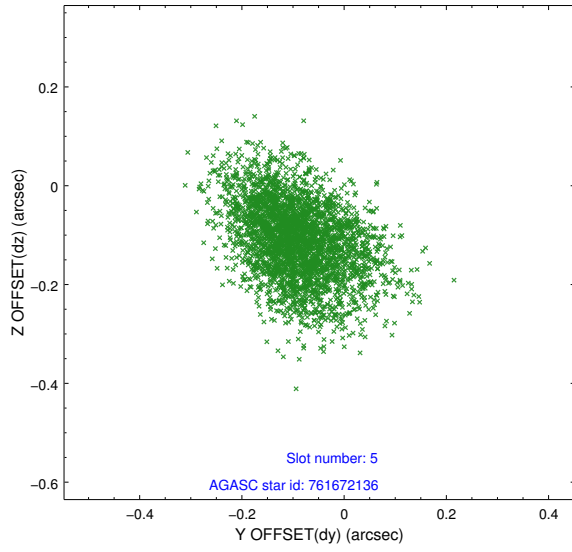
2.4.2 Slot 3



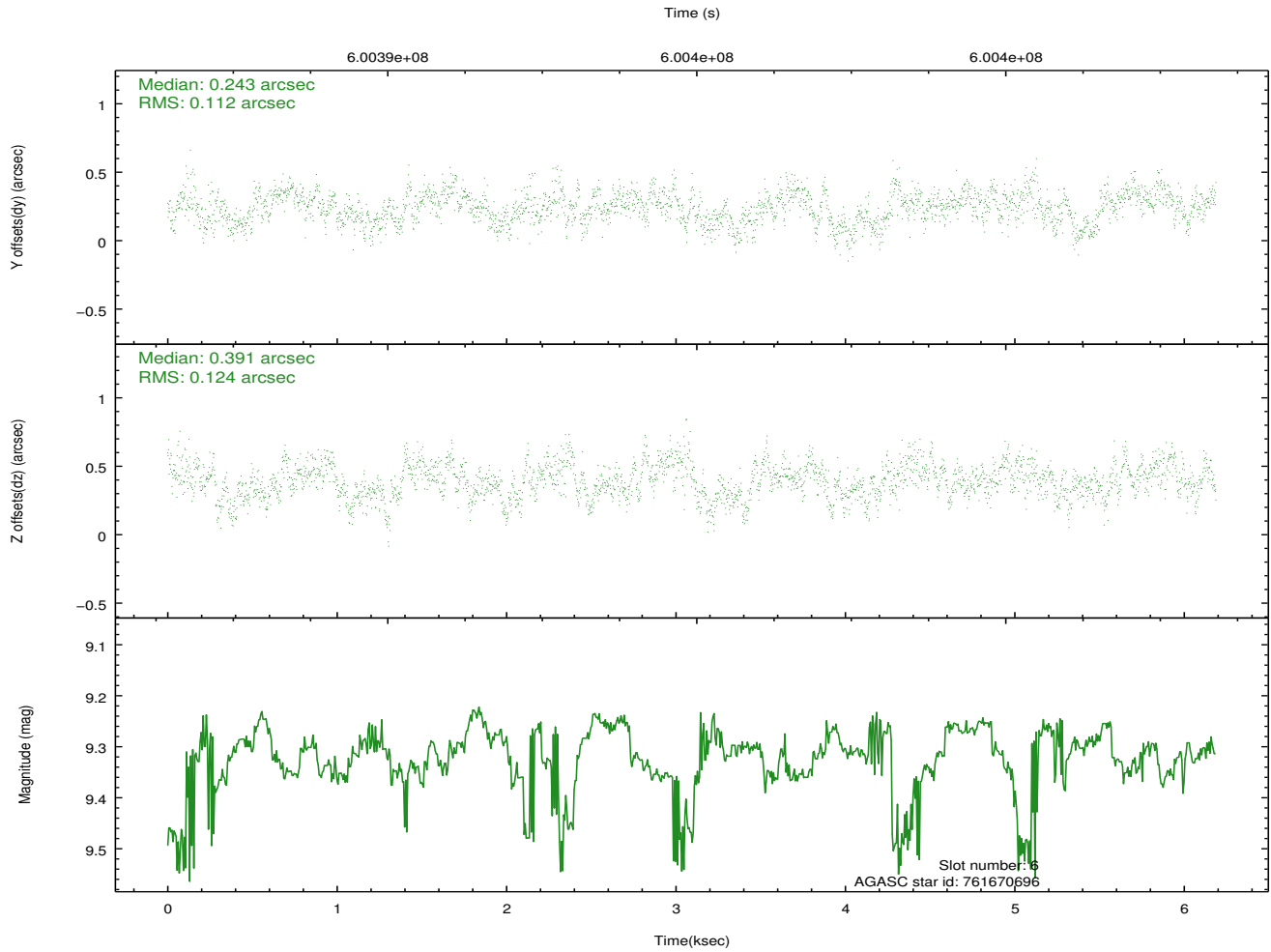
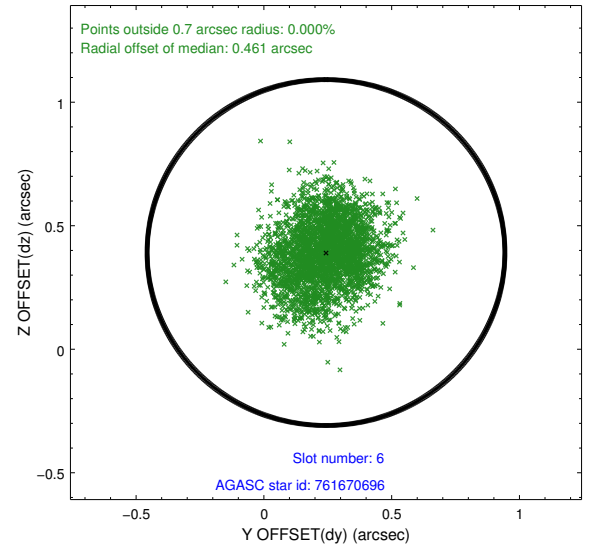
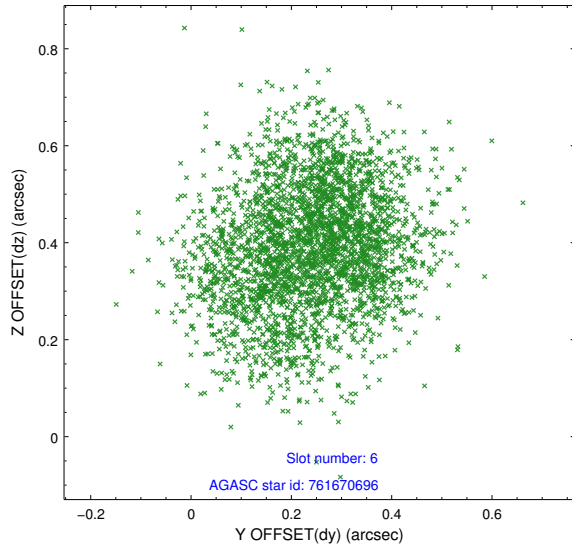
2.4.3 Slot 4



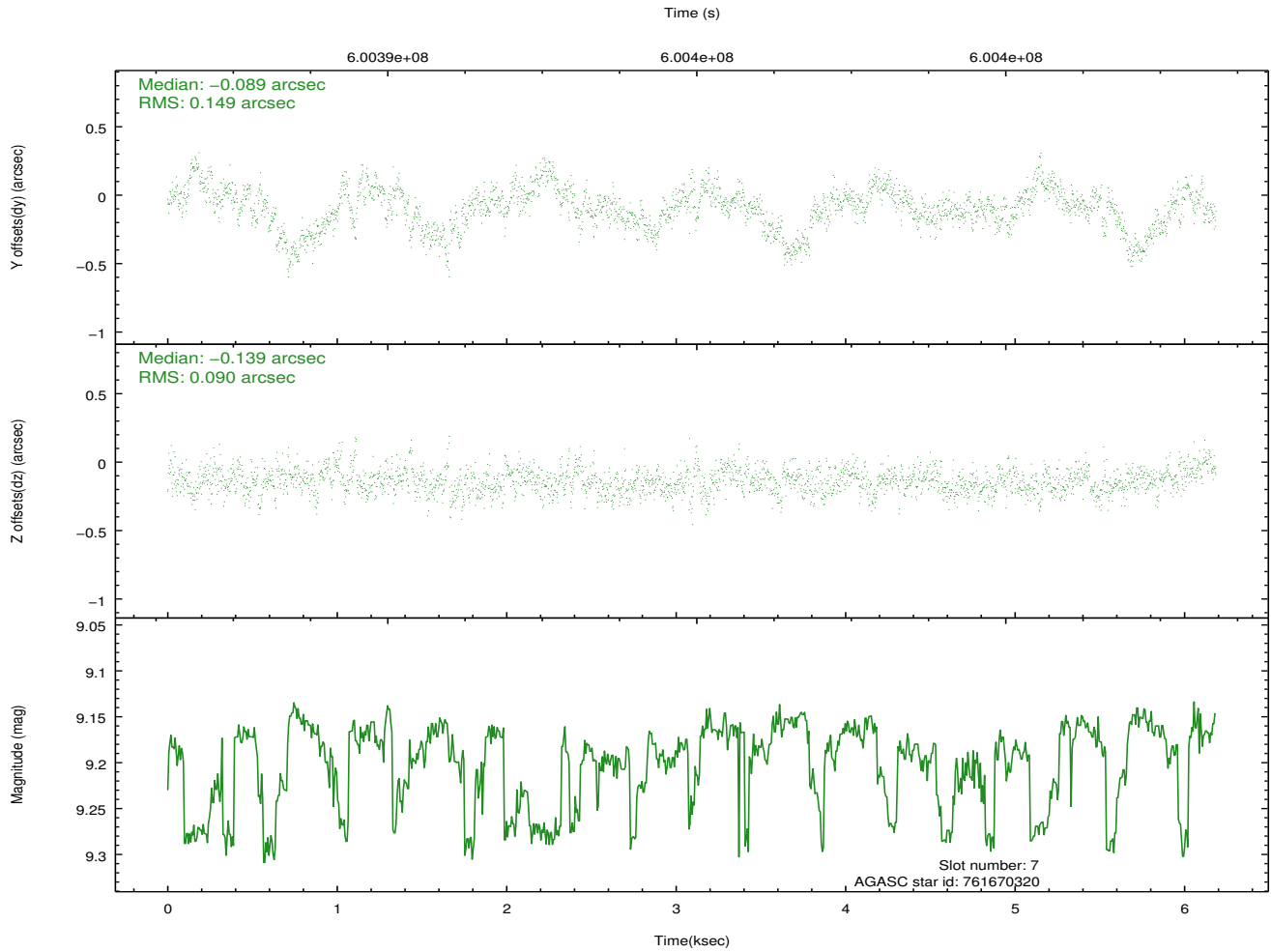
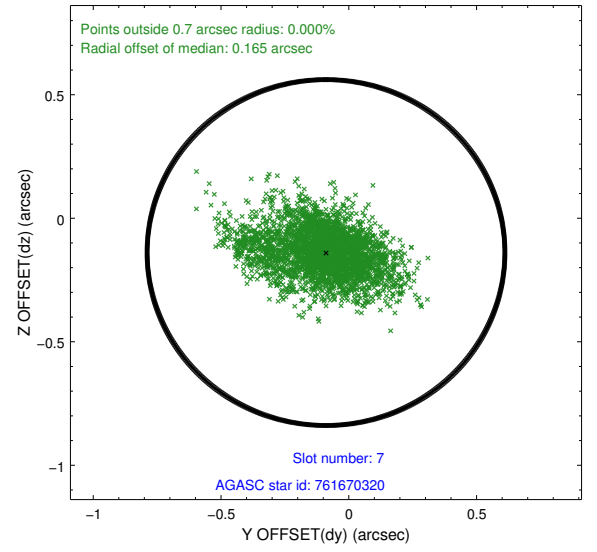
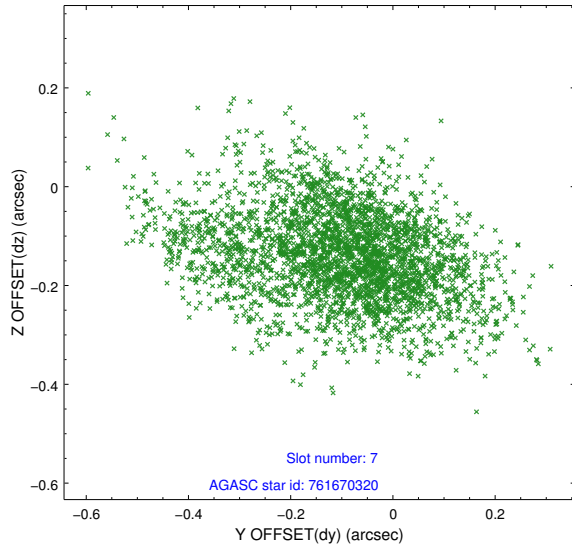
2.4.4 Slot 5



2.4.5 Slot 6

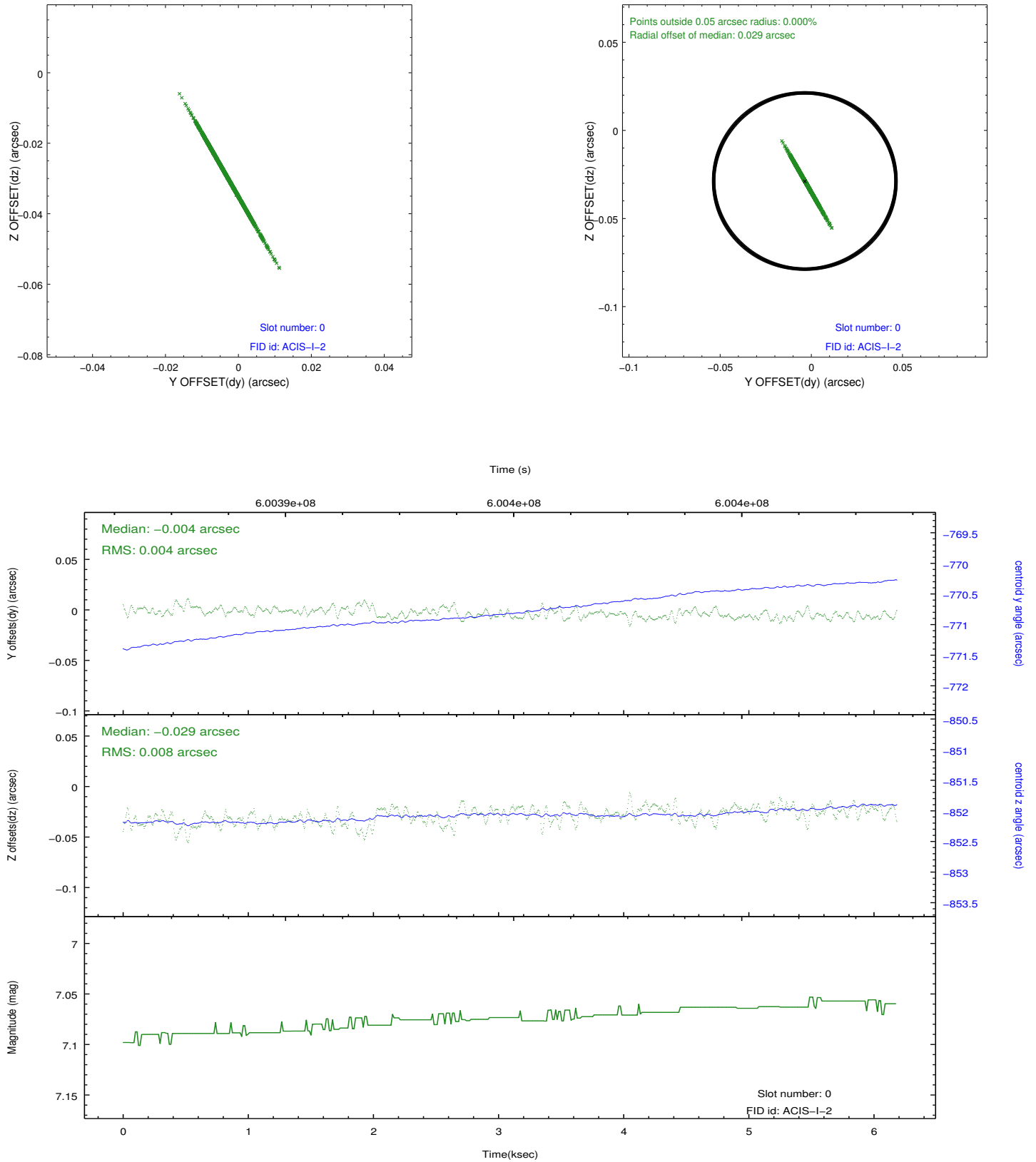


2.4.6 Slot 7

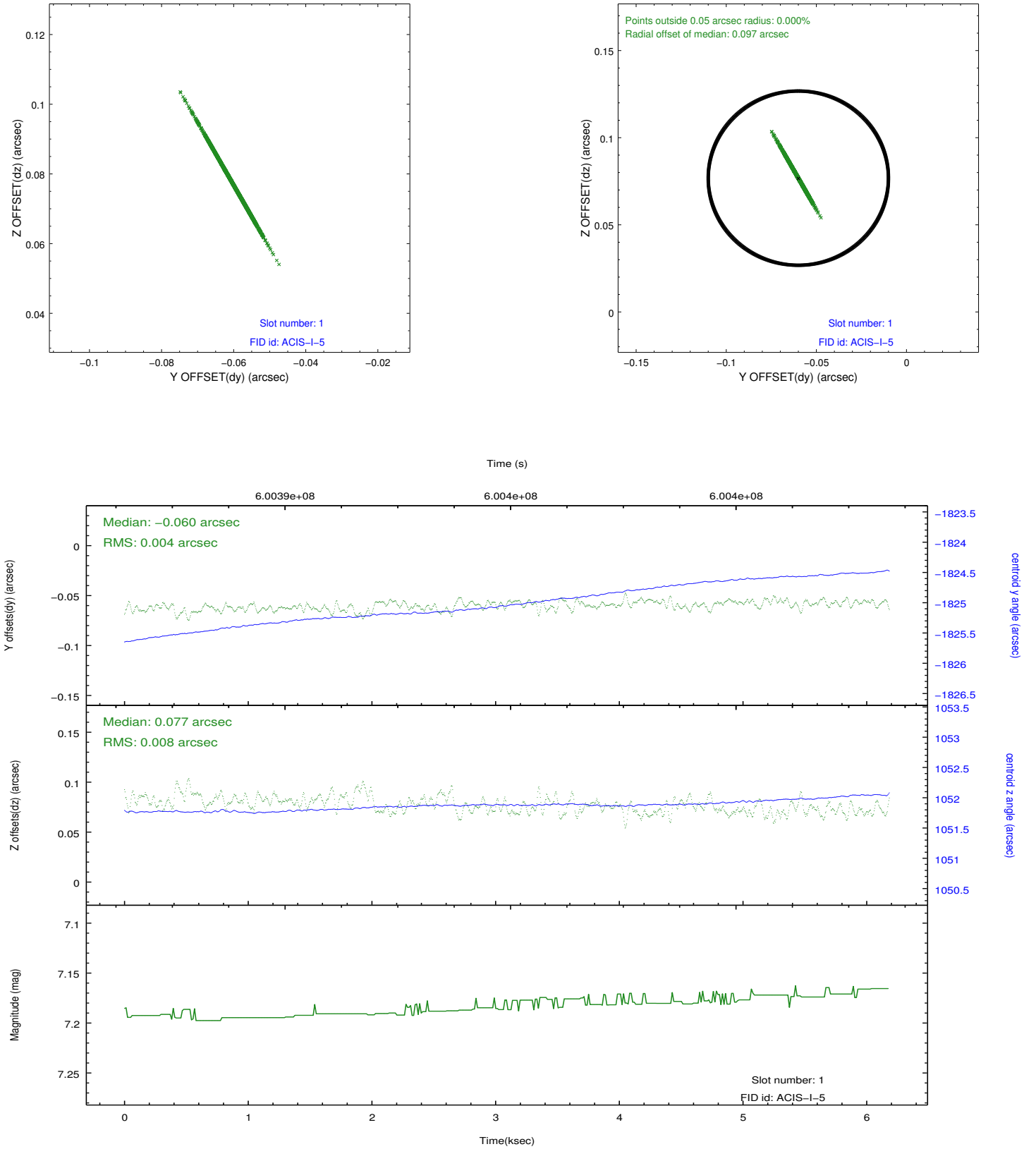


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.8351720478535

A.2 Comments

This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.

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Nominal chip set to 2

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Window constraint met.