

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18694 - L2 Version 1
Chandra X-Ray Center

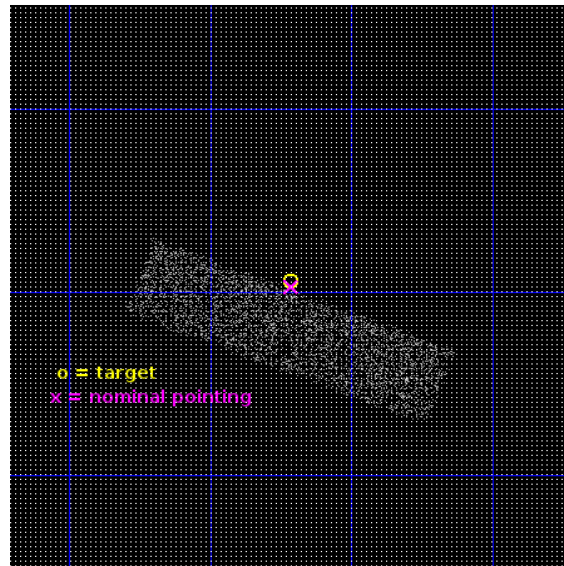
L2 Processing Date : Jan 11 2017

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1 Front

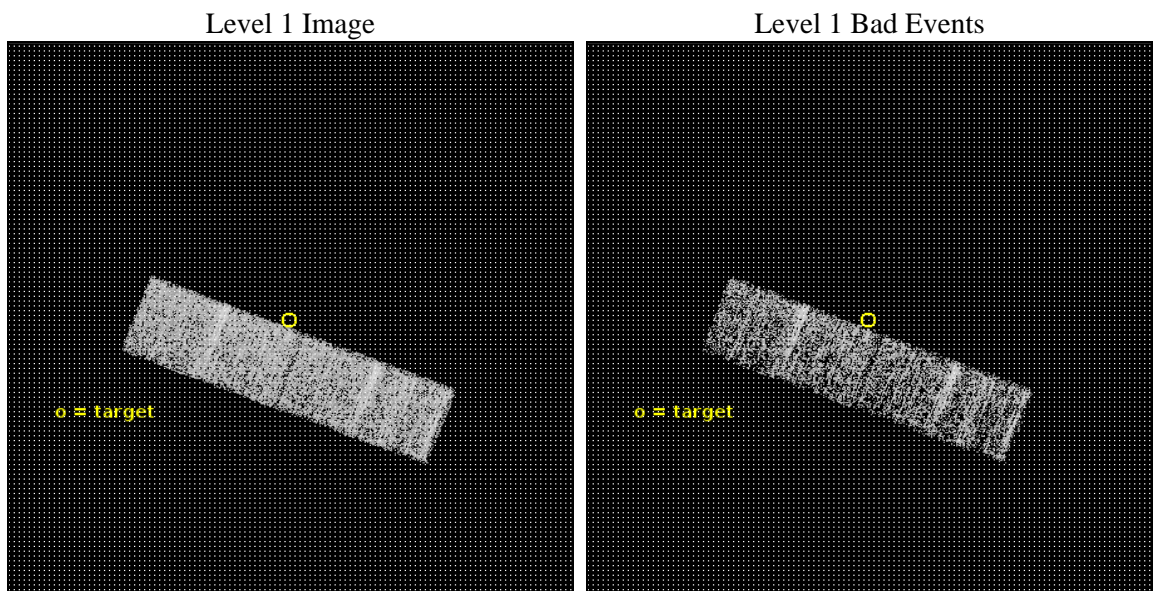
seq_num	100153	Sequence number
obs_id	18694	Observation id
title	Venus in an intermediate phase of the solar cycle	Proposal title
observer	Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	338.928024	Observer's specified target RA [deg]
dec_targ	-9.657036	Observer's specified target Dec [deg]
ra_nom	338.92799184117	Nominal RA [deg]
dec_nom	-9.6617853990965	Nominal Dec [deg]
roll_nom	291.32686977678	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5835.1896445751	Sum of GTIs [s]
livetime	5689.2601224347	Livetime [s]
ontime0	5835.1486046314	Sum of GTIs [s]
ontime2	5835.1896445751	Sum of GTIs [s]
l2events	3753	Number of level 2 events



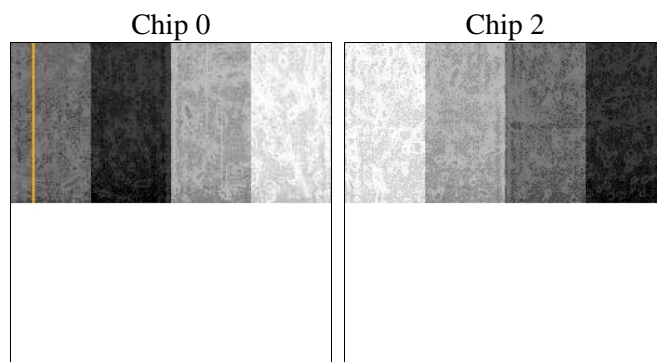
2 OBI

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	5835.1896445751	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	5835.1486046314	Sum of GTIs [s]
date	2017-01-11T11:48:07	Date and time of file creation	ontime2	5835.1896445751	Sum of GTIs [s]
revision	1	Processing version of data	l1events	43407	Number of level 1 events

2.1.4 Events

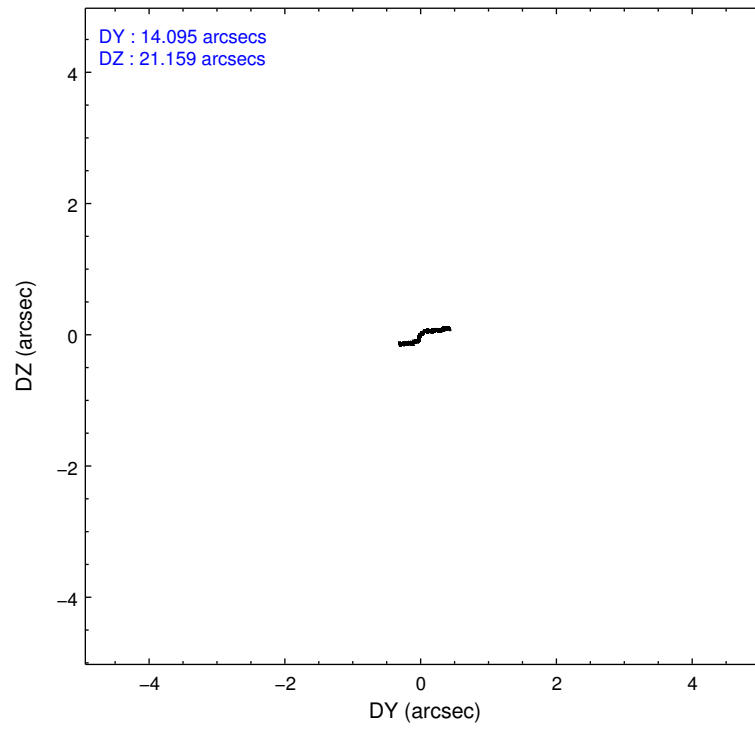
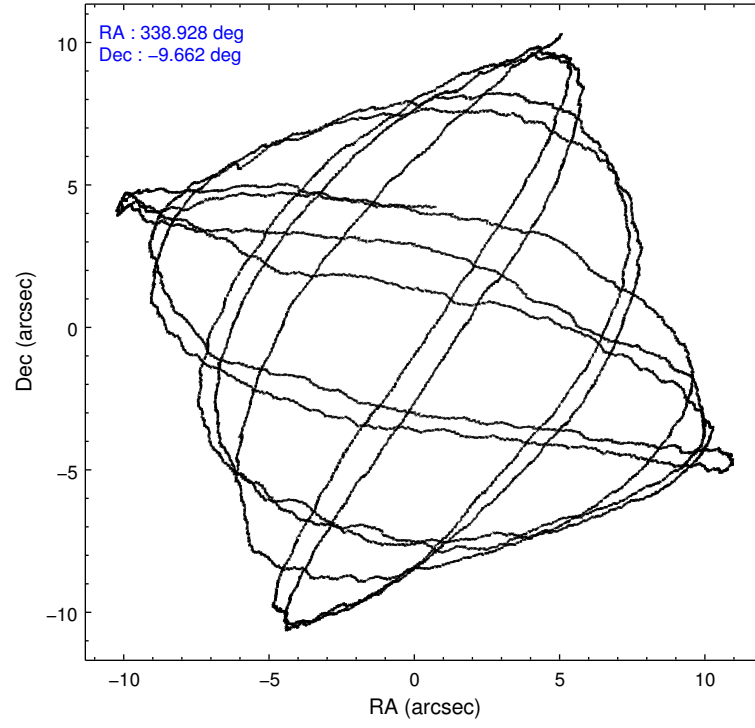
	ccd 0	ccd 2
level 1 events	21189	22218
rejected events	18681	19773
rejected %	88%	88%

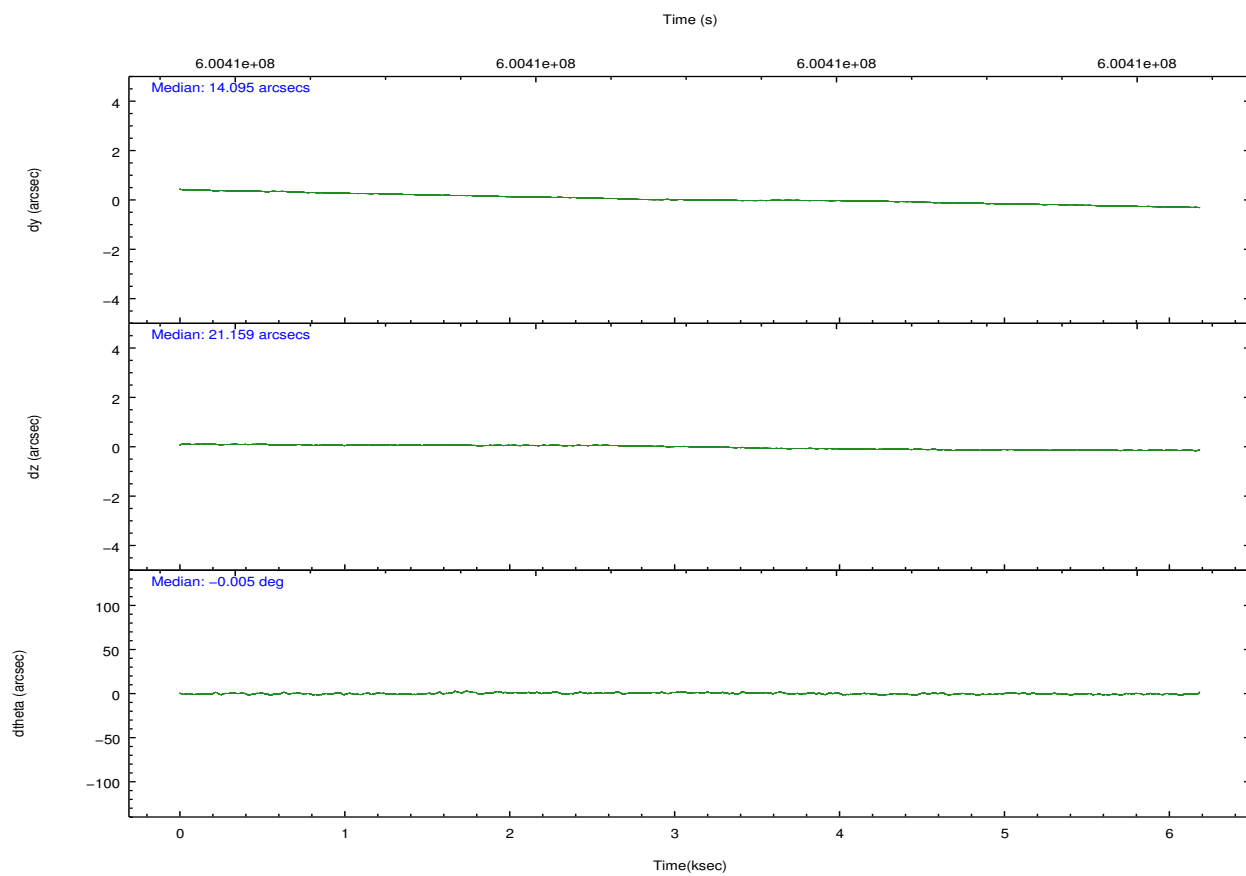
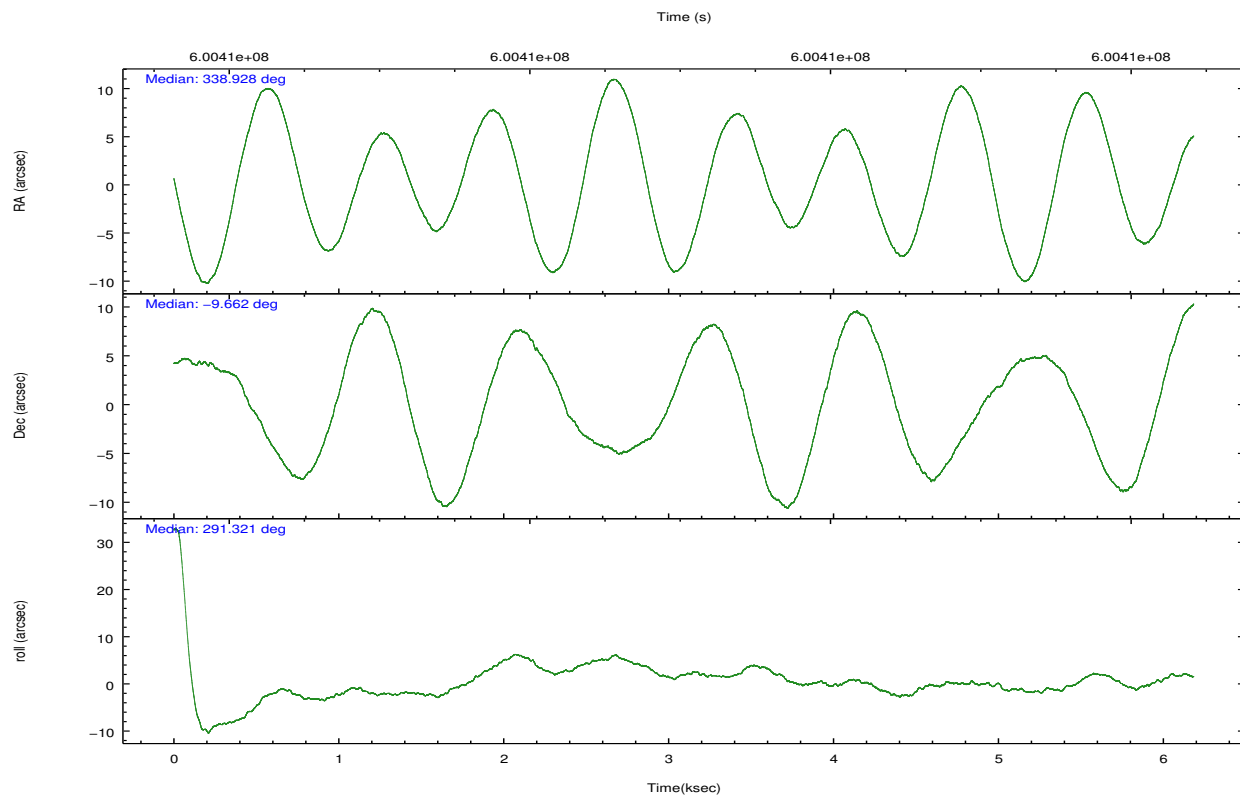
	ccd 0	ccd 2
grade 0 events	810	826
	3%	3%
grade 1 events	9	8
	0%	0%
grade 2 events	633	522
	2%	2%
grade 3 events	321	327
	1%	1%
grade 4 events	290	304
	1%	1%
grade 5 events	871	864
	4%	3%
grade 6 events	454	467
	2%	2%
grade 7 events	17801	18900
	84%	85%

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	338.906135	338.9279918411708	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-9.644640	-9.661785399096535	Subarray start row	513	513
[deg] Pointing Roll	291.114531	291.3268697767815	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)	600406103.184000	600405726.47157			
Observation start date	2017-01-10T03:27:14	2017-01-10T03:22:06			
[s] Observation end time (MET)	600412103.184000	600412236.75945			
Observation end date	2017-01-10T05:07:14	2017-01-10T05:10:36			
Read mode	TIMED	TIMED			

2.3 Aspect



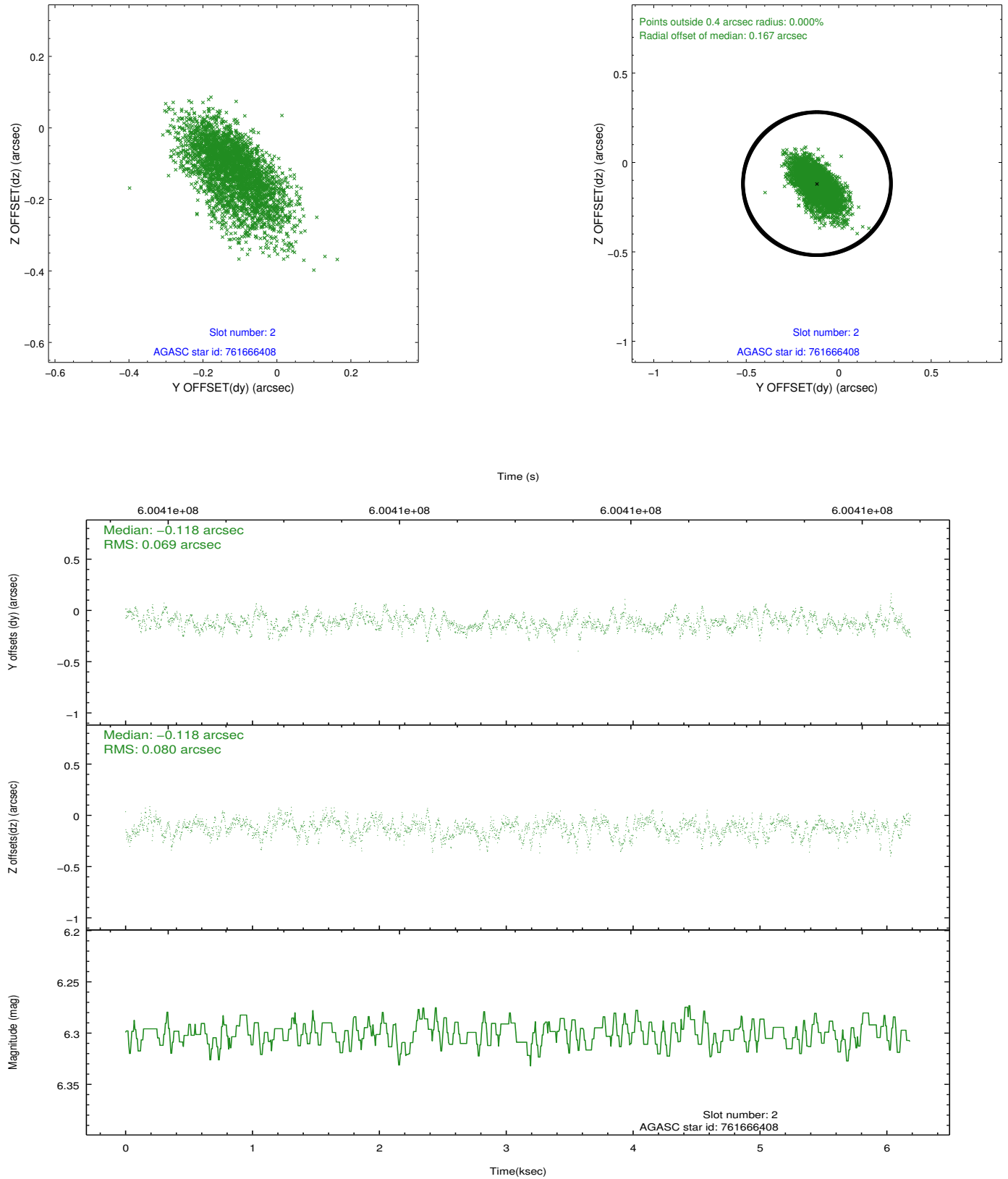


Slot Statistics

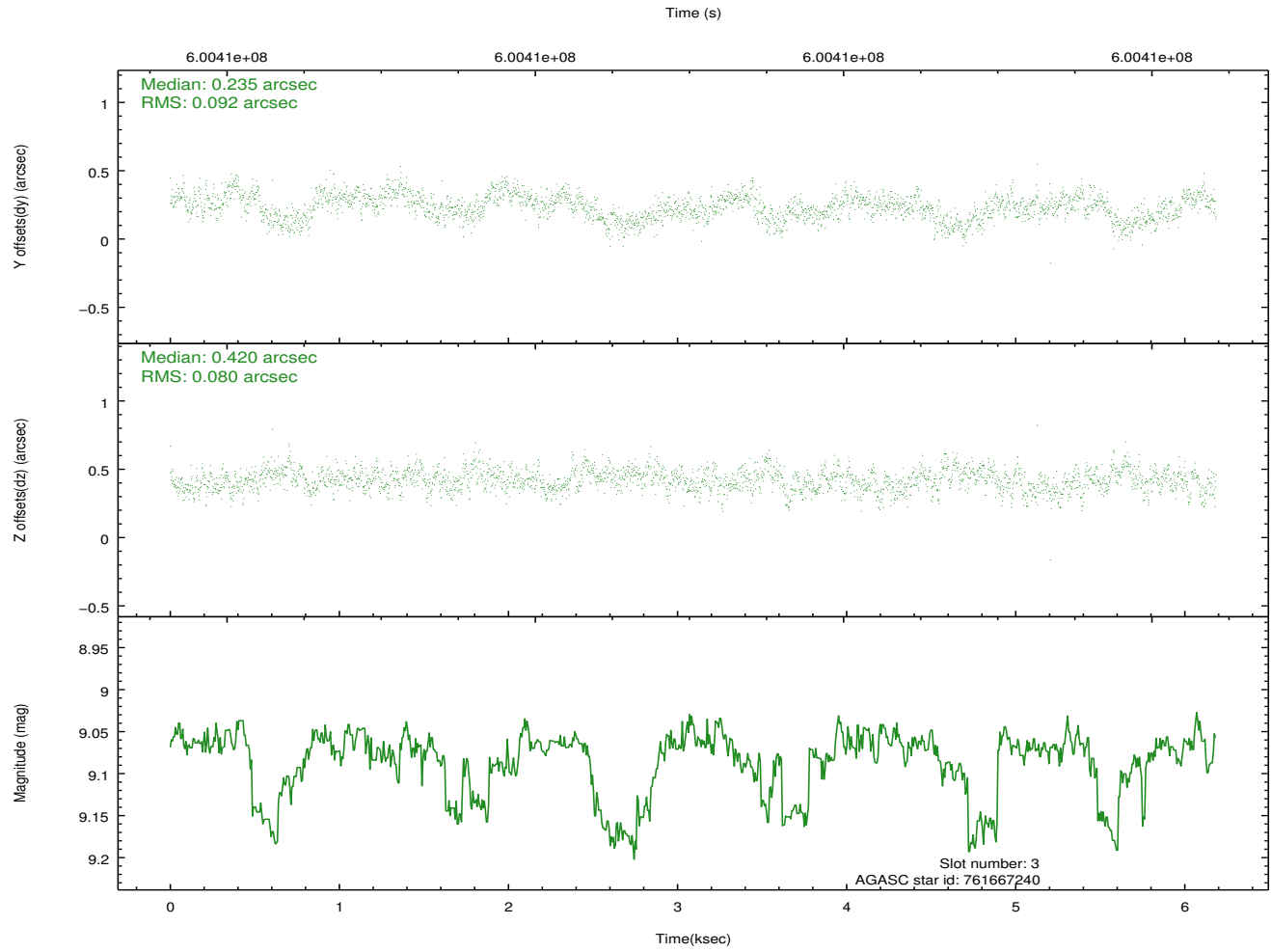
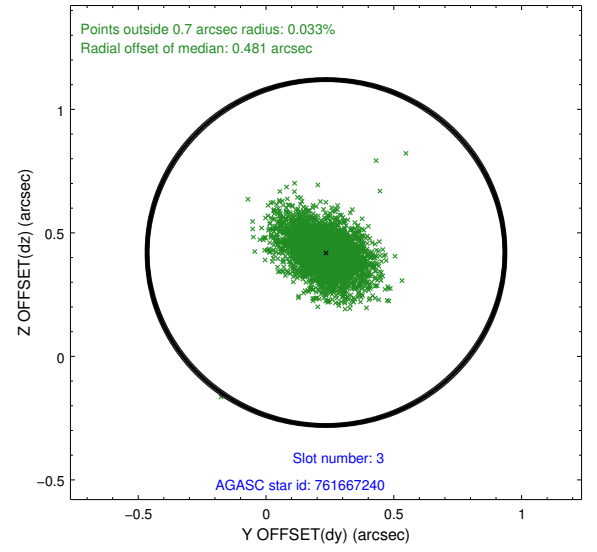
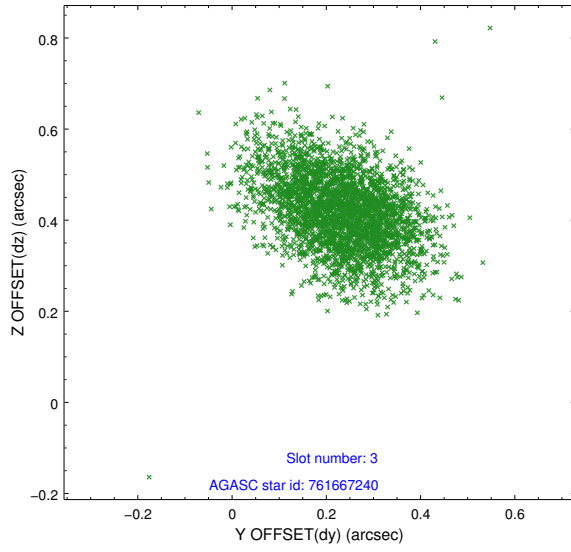
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.03	1509	-0.011	-0.014	0.008	0.017	0.000000	0.000000	-768.80	-851.32
1	FID		ACIS-I-5	7.12	1509	-0.052	0.062	0.008	0.017	0.000000	0.000000	-1823.46	1052.07
2	GUIDE	used	761666408	6.30	3018	-0.118	-0.118	0.109	0.190	338.527561	-9.608492	-604.44	-1206.93
3	GUIDE	used	761667240	9.08	3015	0.235	0.420	0.126	0.213	338.639466	-9.137380	-2044.25	-226.18
4	GUIDE	used	761670320	9.18	3018	-0.106	-0.174	0.126	0.206	339.180611	-8.948429	-1986.80	1813.43
5	GUIDE	used	761670696	9.34	3014	0.284	0.300	0.199	0.312	338.284918	-9.212445	-2244.70	-1498.62
6	GUIDE	used	761672120	8.08	3014	-0.145	-0.263	0.084	0.146	339.232283	-9.389338	-440.30	1411.23
7	GUIDE	used	761672136	8.51	3014	-0.127	-0.147	0.171	0.272	339.196147	-9.393141	-473.25	1287.68

2.4 Star Slots

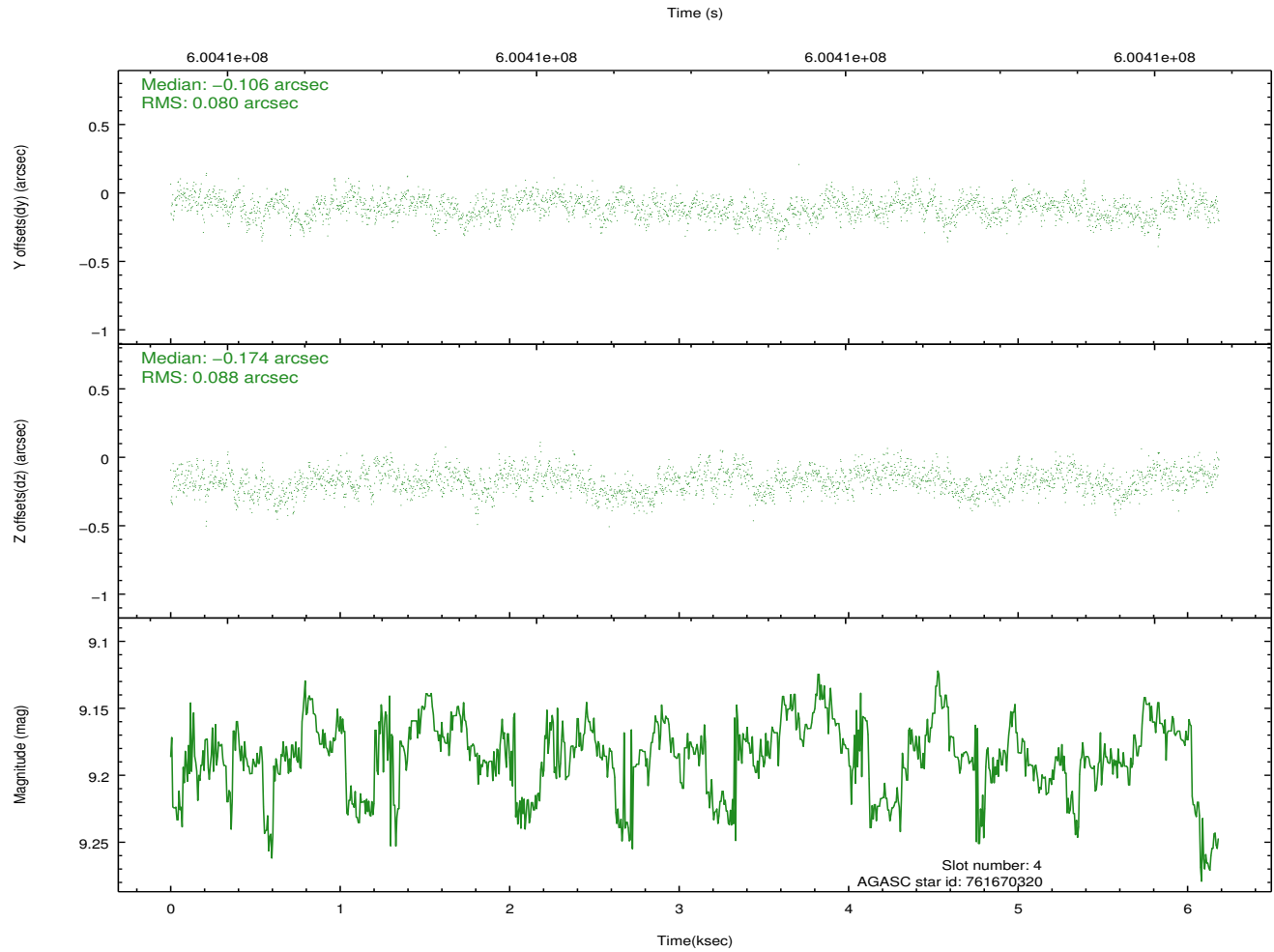
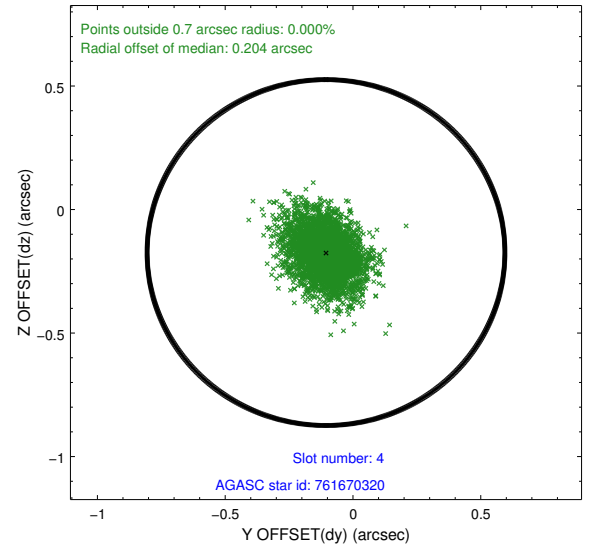
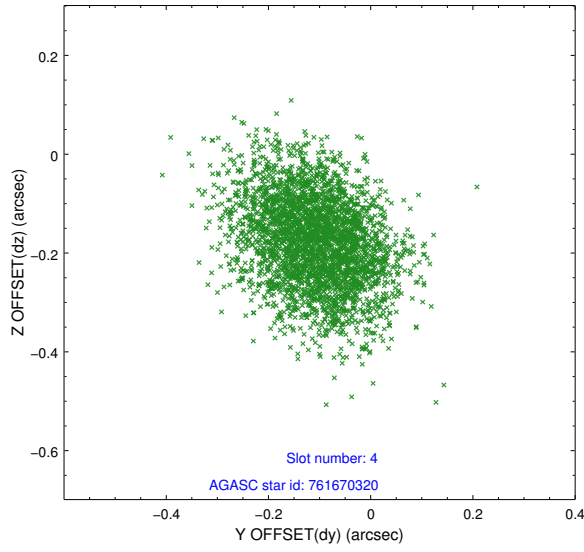
2.4.1 Slot 2



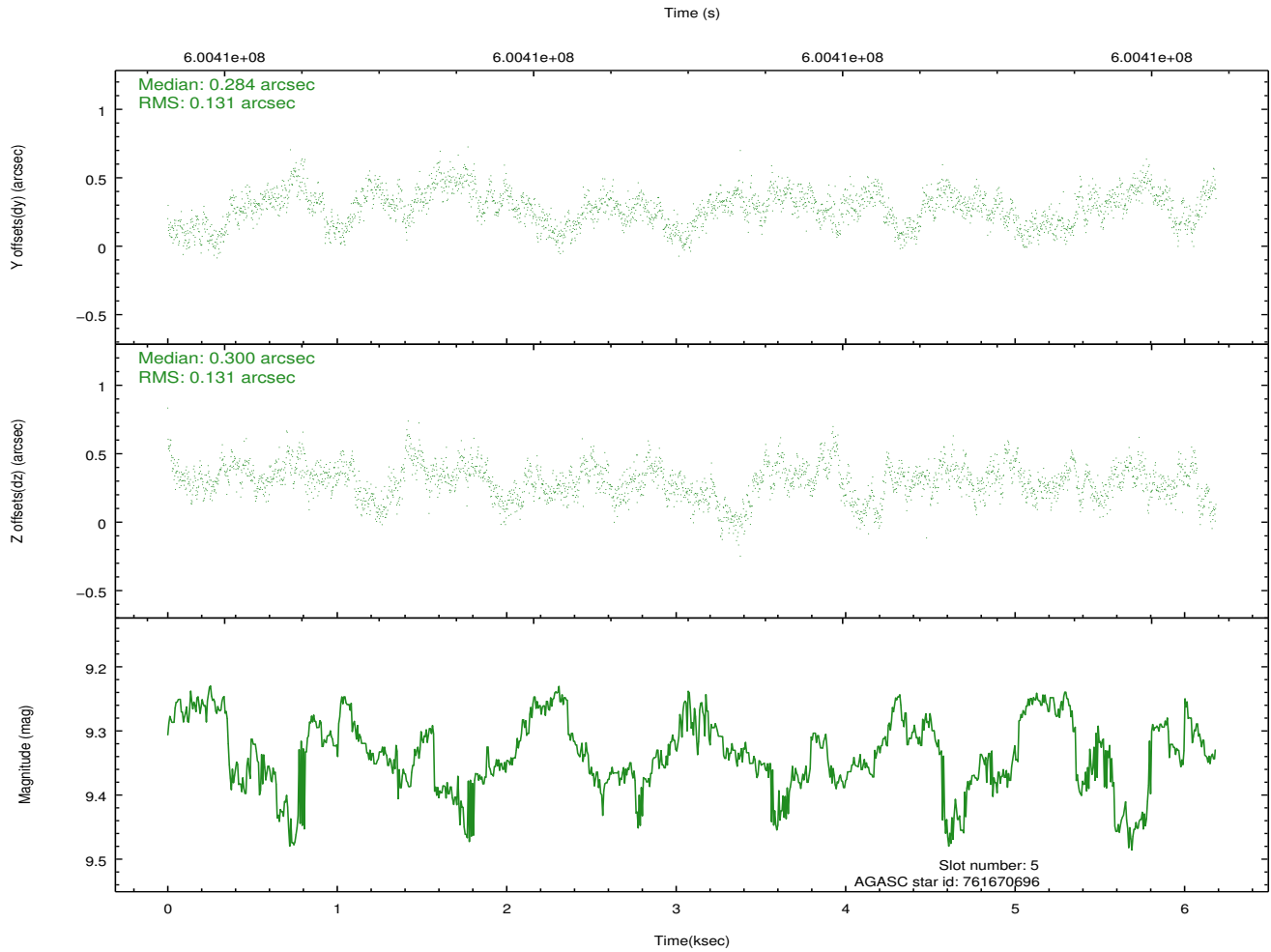
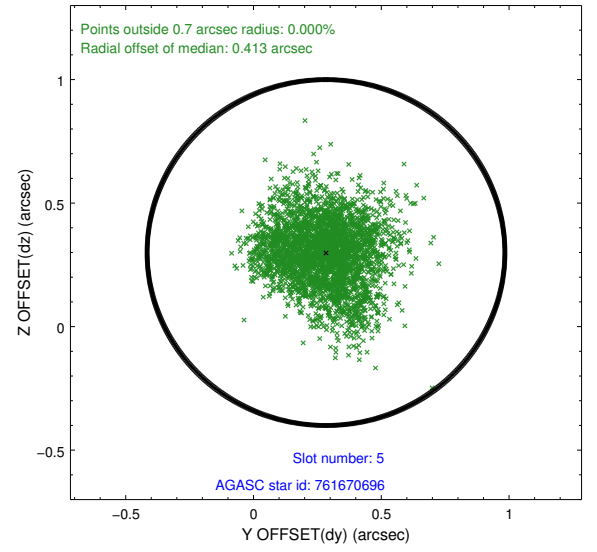
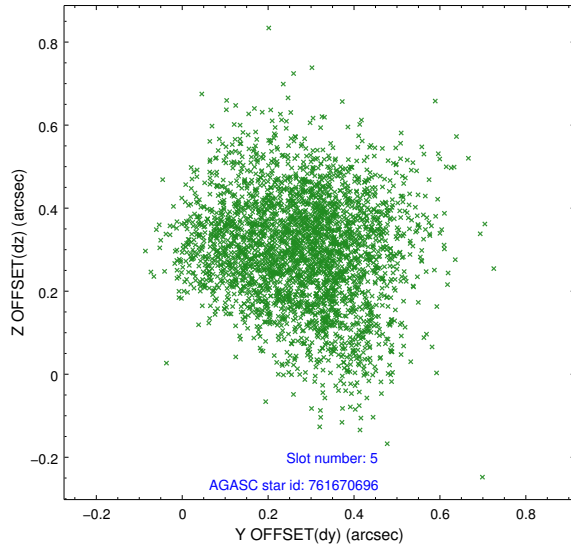
2.4.2 Slot 3



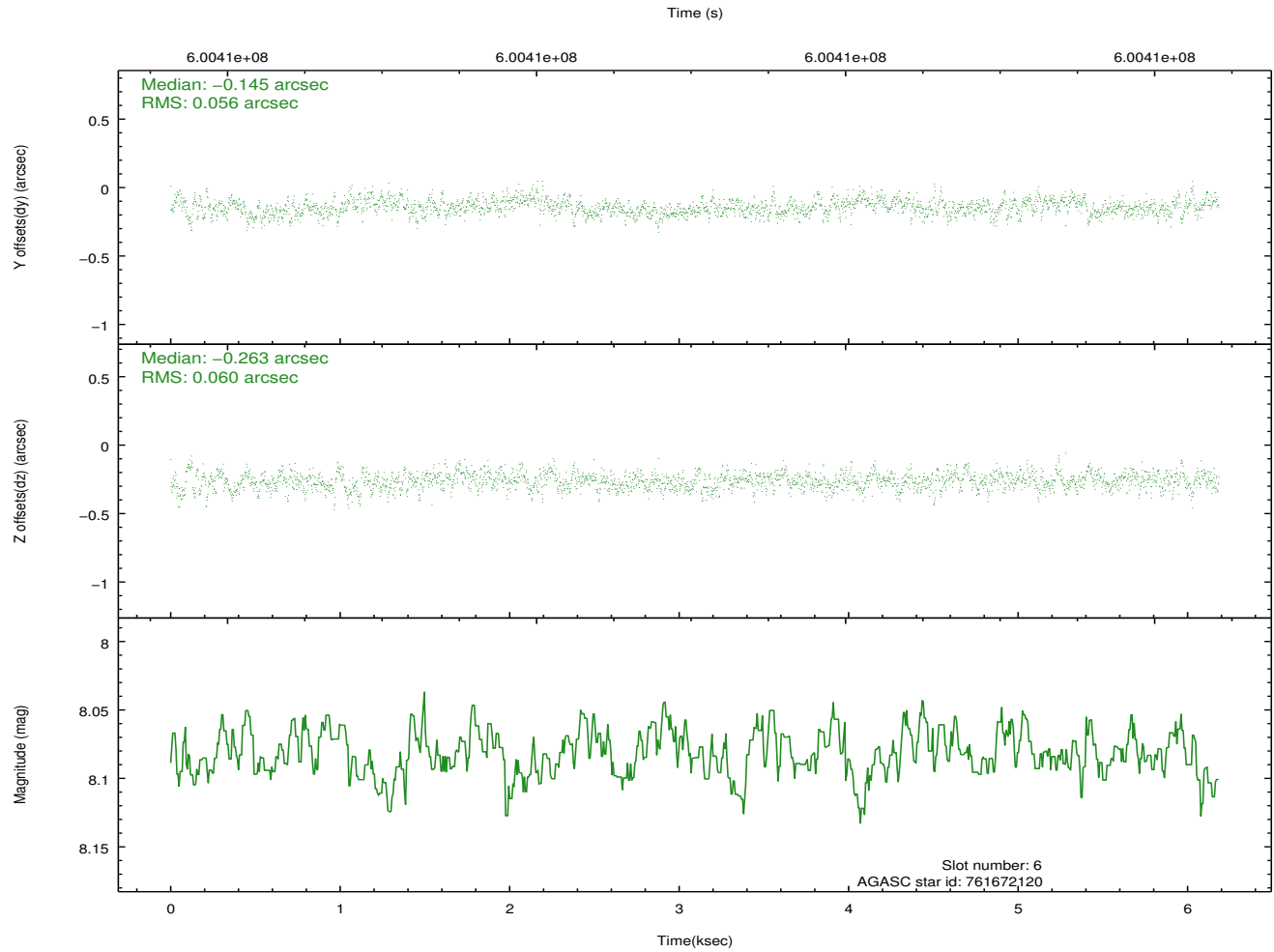
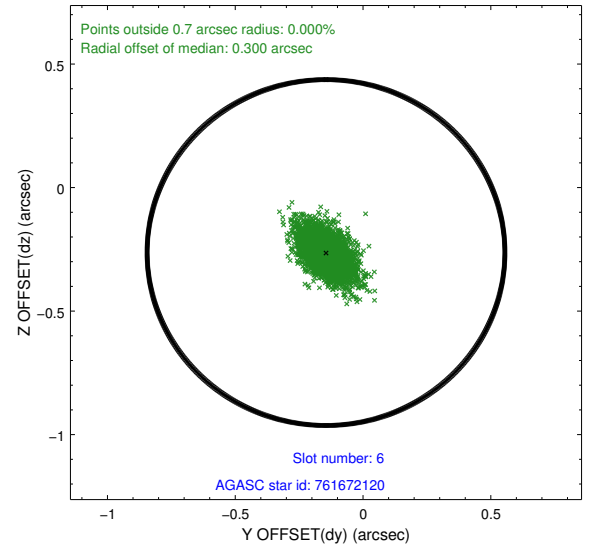
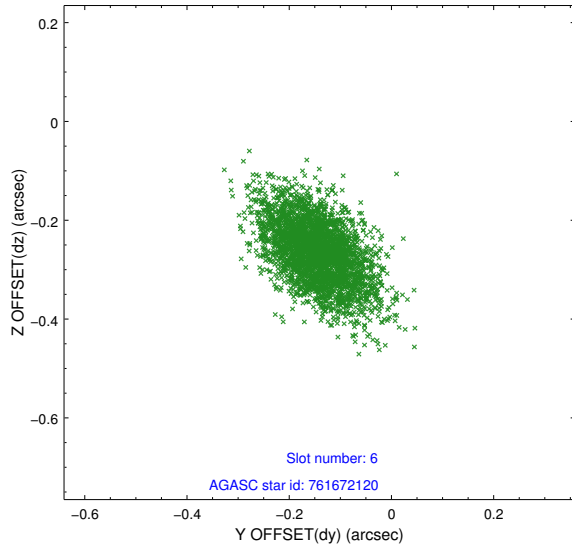
2.4.3 Slot 4



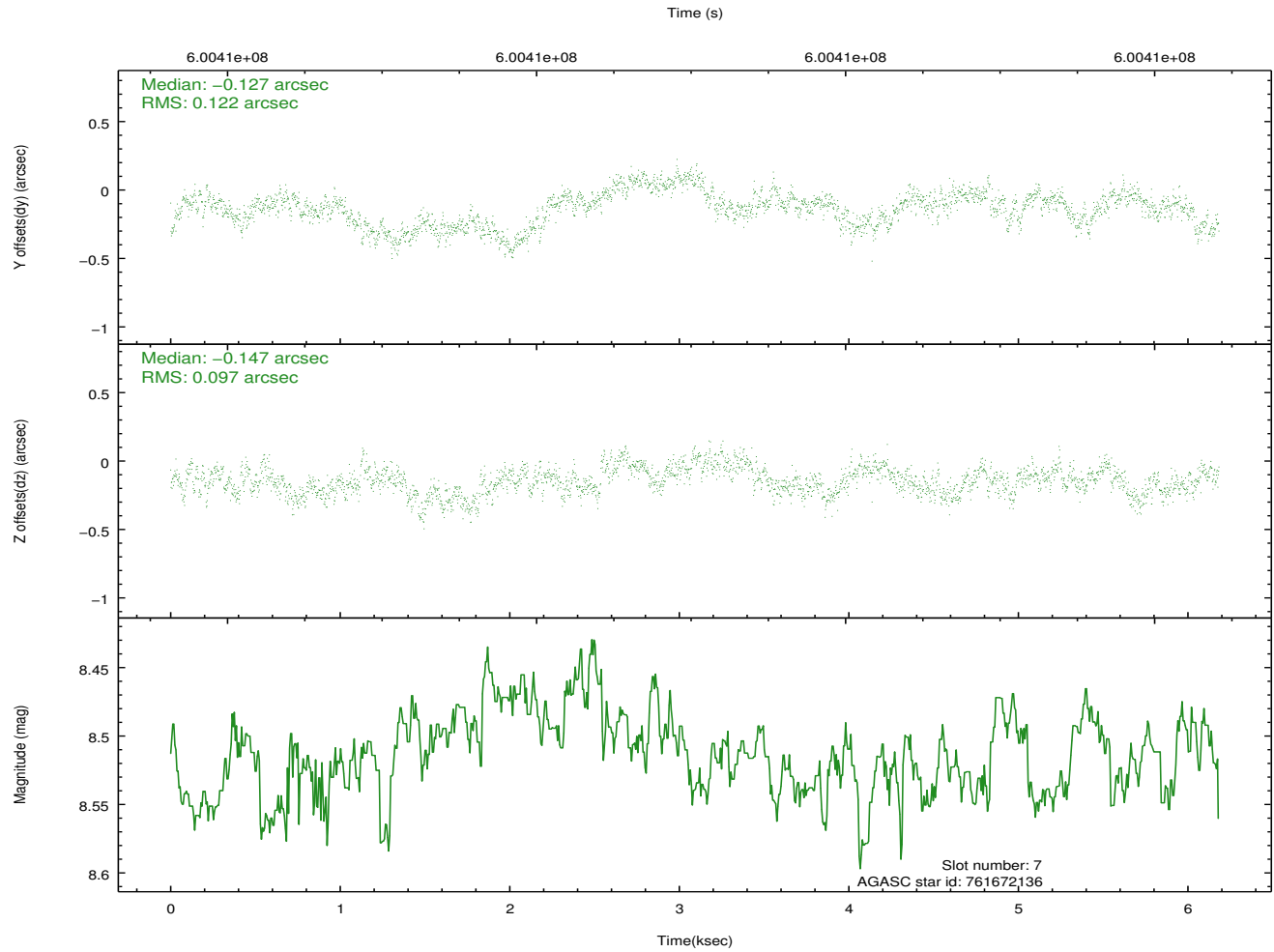
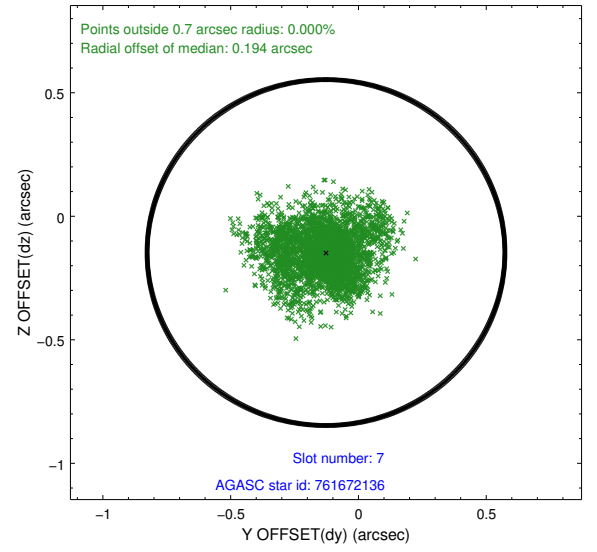
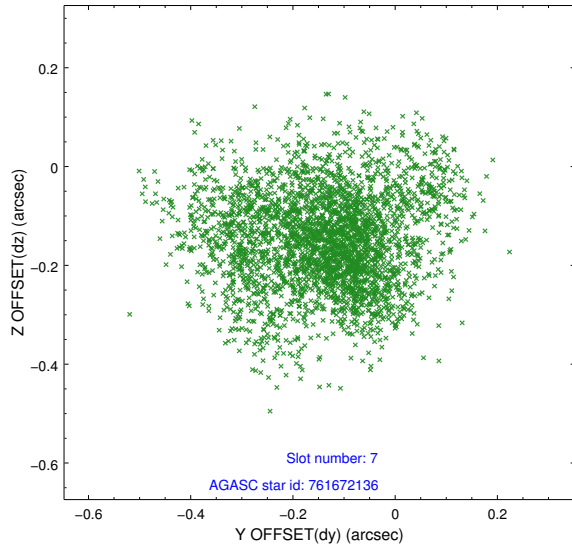
2.4.4 Slot 5



2.4.5 Slot 6

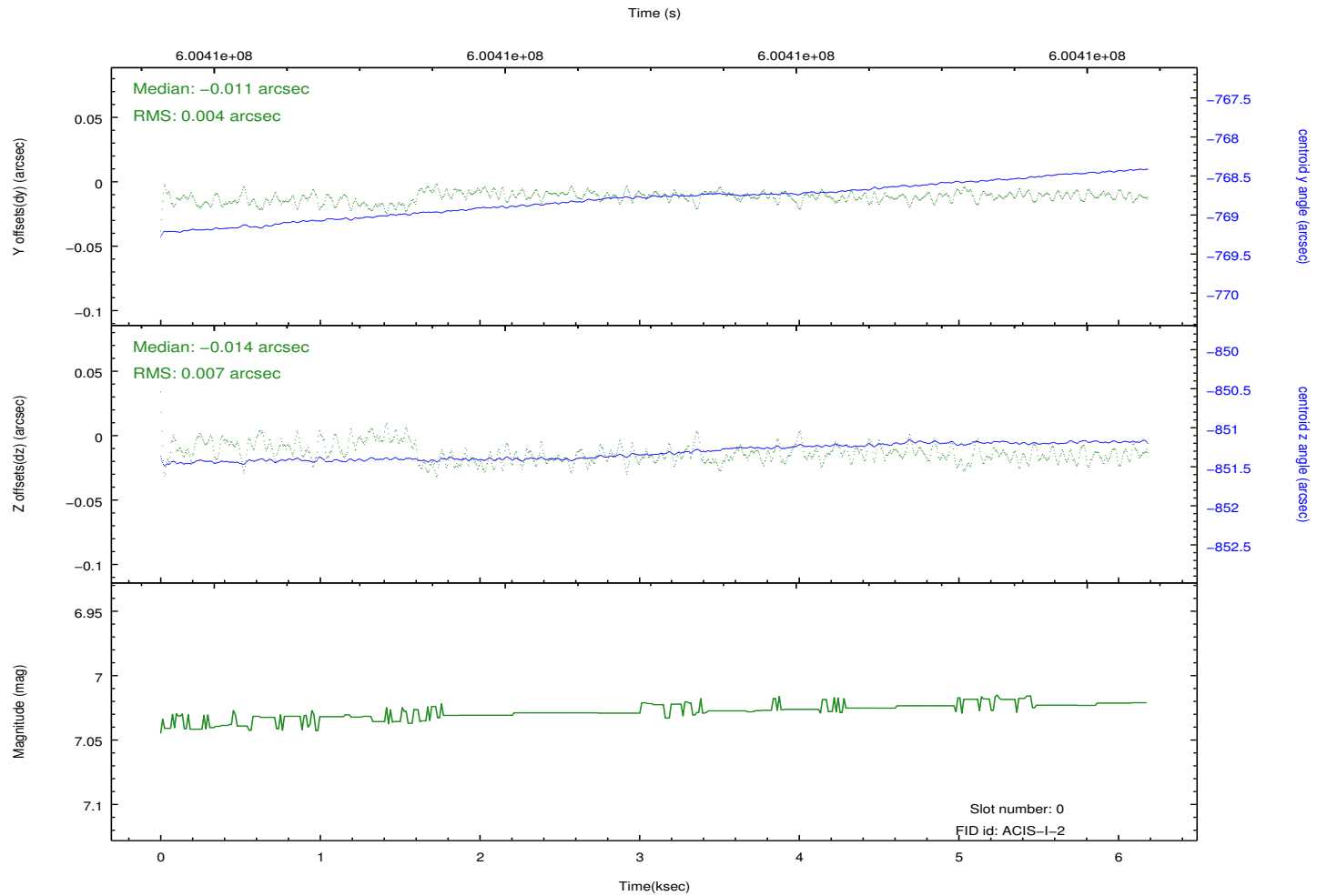
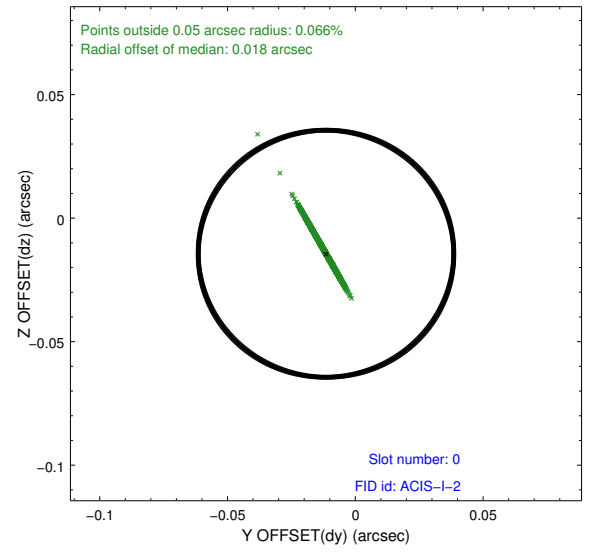
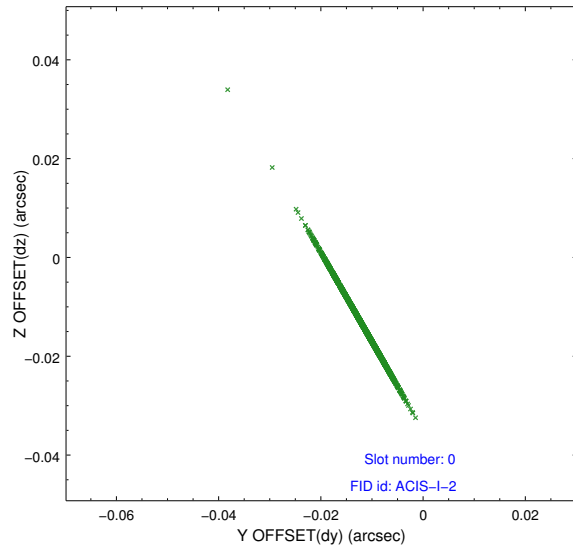


2.4.6 Slot 7

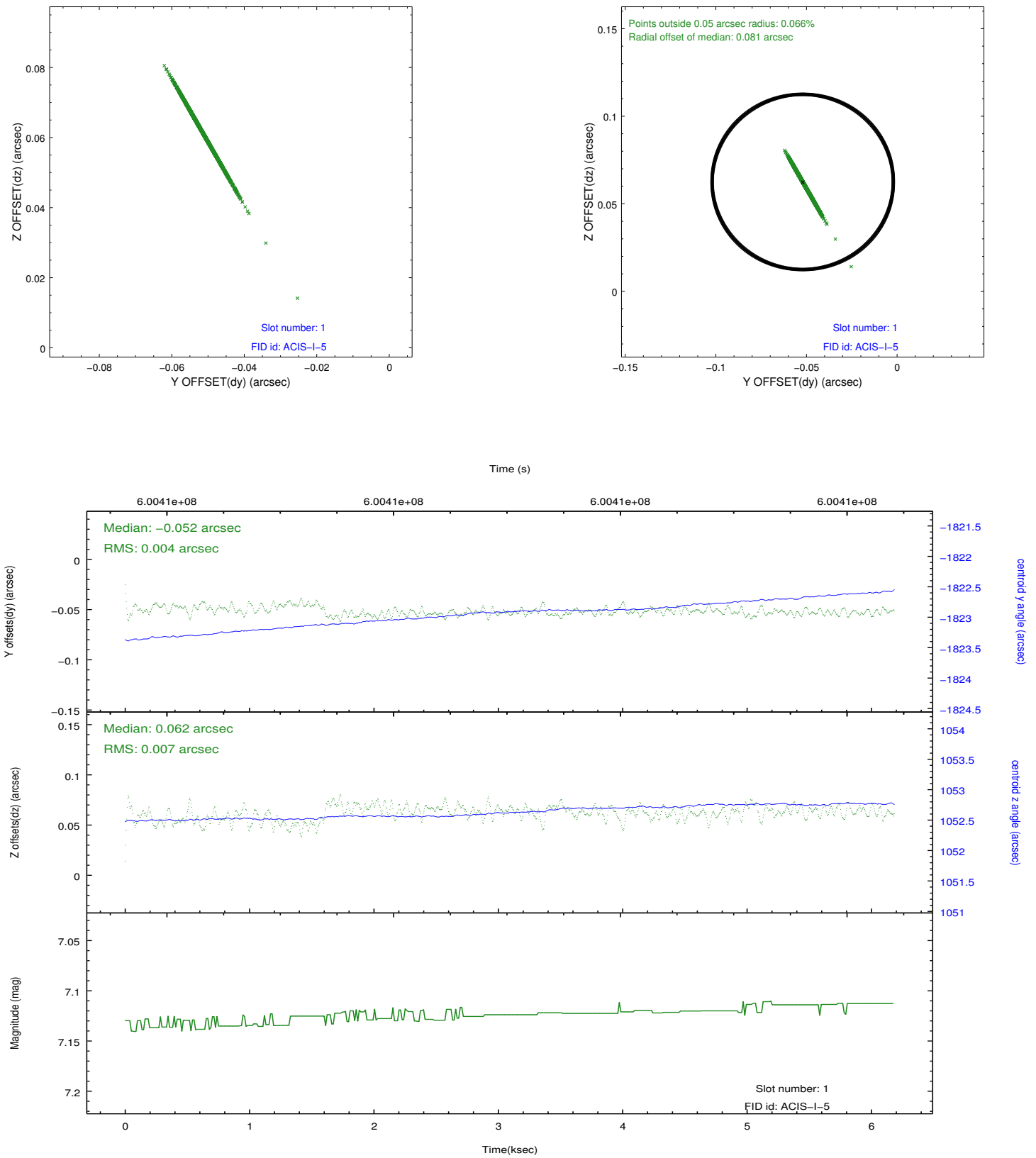


2.5 FID Slots

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	5.8351896445751

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.