

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18693 - L2 Version 1
Chandra X-Ray Center

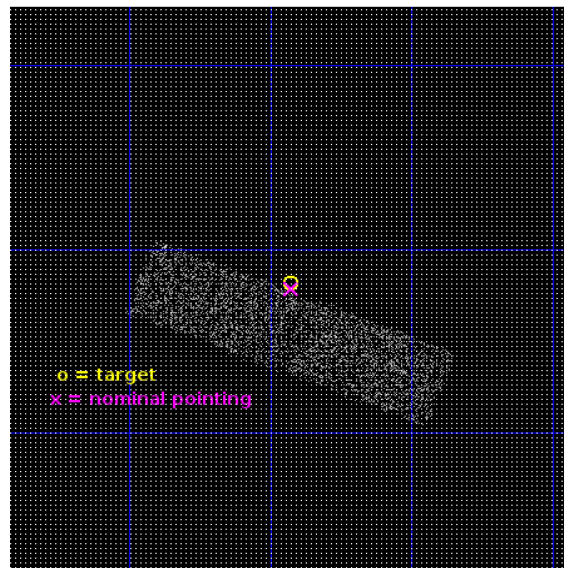
L2 Processing Date : Jan 11 2017

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1 Front

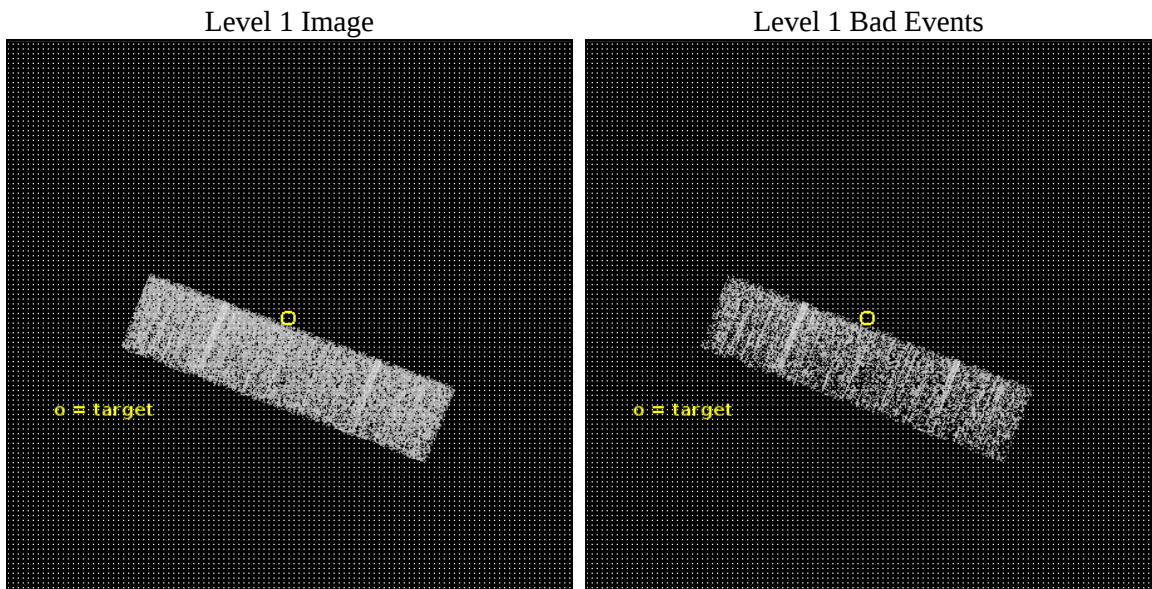
seq_num	100153	Sequence number
obs_id	18693	Observation id
title	Venus in an intermediate phase of the solar cycle	Proposal title
observer	Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	338.856403	Observer's specified target RA [deg]
dec_targ	-9.697801	Observer's specified target Dec [deg]
ra_nom	338.85640561142	Nominal RA [deg]
dec_nom	-9.702639068681	Nominal Dec [deg]
roll_nom	291.3047657347	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5835.1327112913	Sum of GTIs [s]
liveltime	5689.2046129687	Livetime [s]
ontime0	5835.0916713476	Sum of GTIs [s]
ontime2	5835.1327112913	Sum of GTIs [s]
l2events	3901	Number of level 2 events



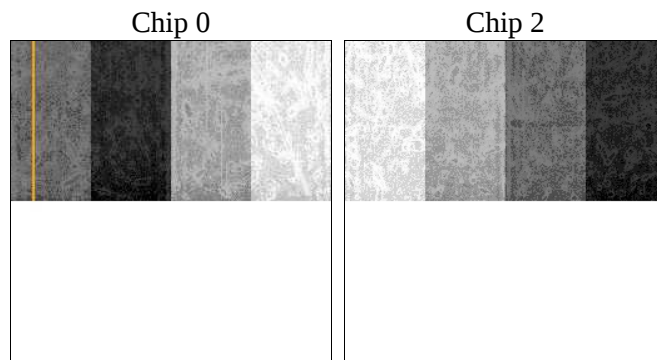
2 OBI

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	5835.1327112913	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	5835.0916713476	Sum of GTIs [s]
date	2017-01-11T11:48:38	Date and time of file creation	ontime2	5835.1327112913	Sum of GTIs [s]
revision	1	Processing version of data	l1events	43683	Number of level 1 events

2.1.4 Events

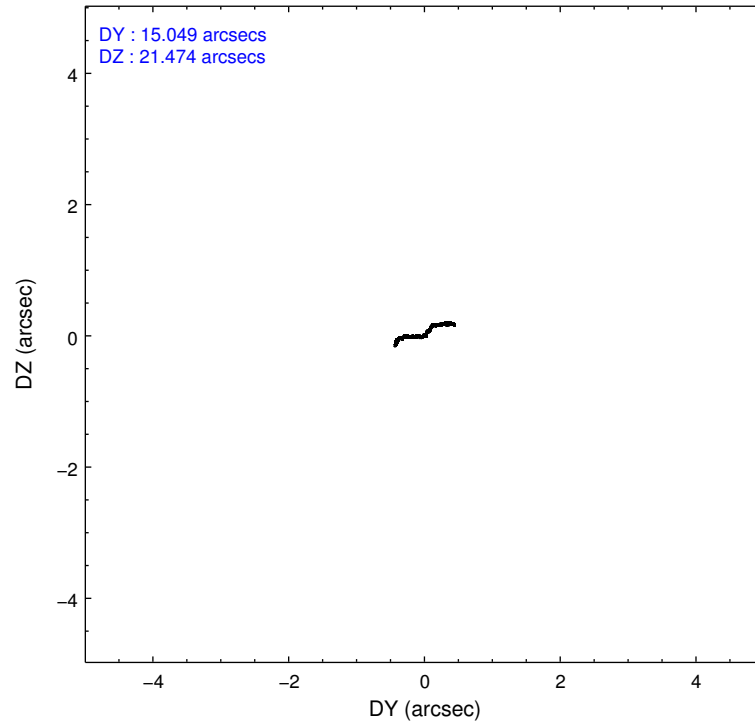
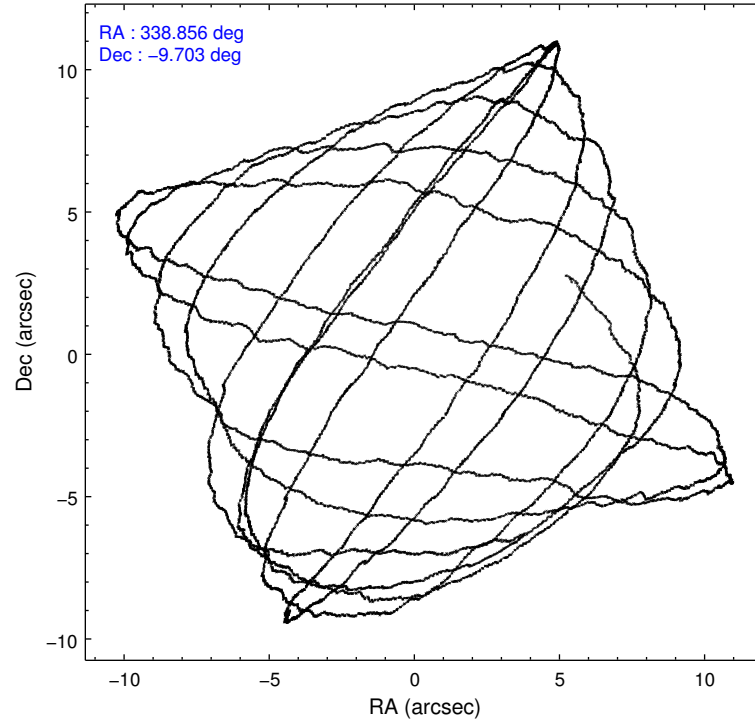
	ccd 0	ccd 2
level 1 events	19986	23697
rejected events	17397	21296
rejected %	87%	89%

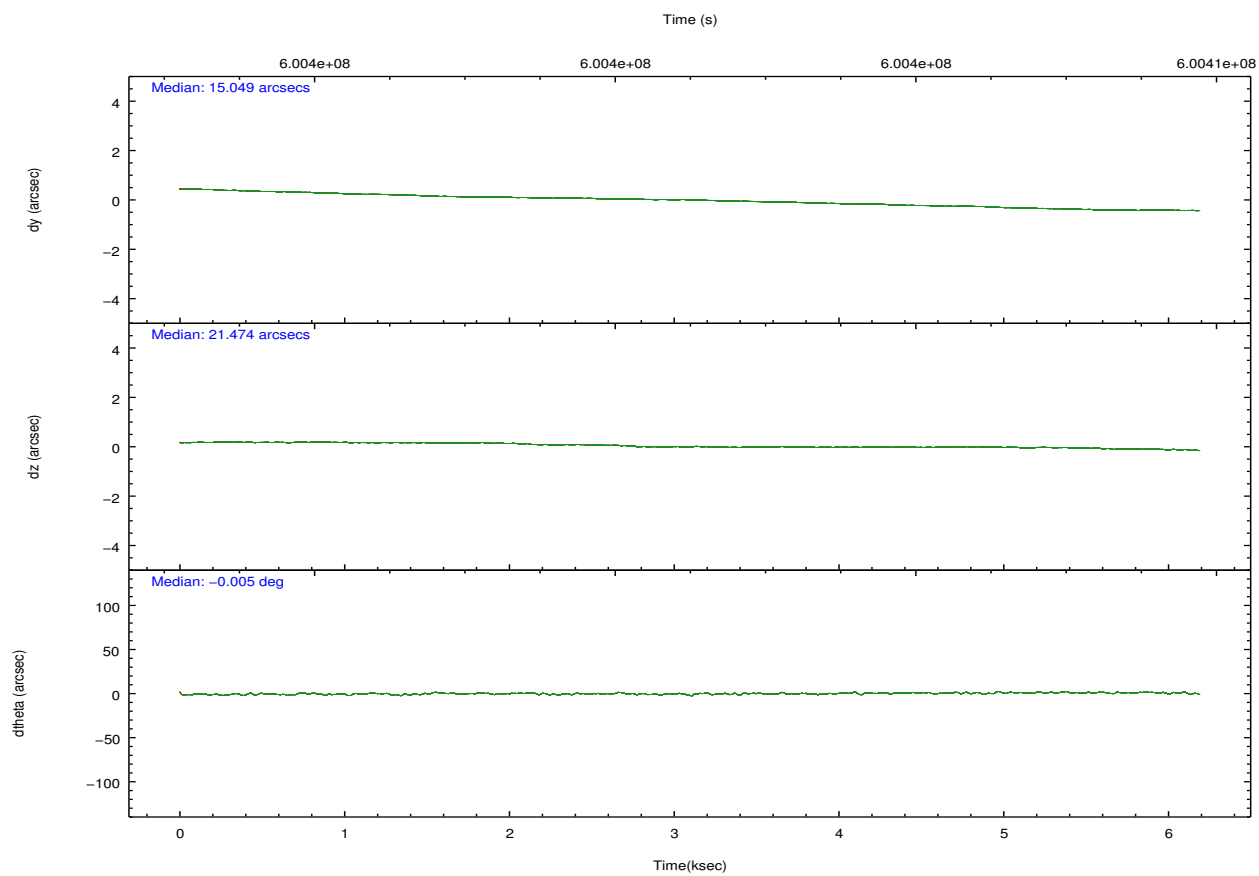
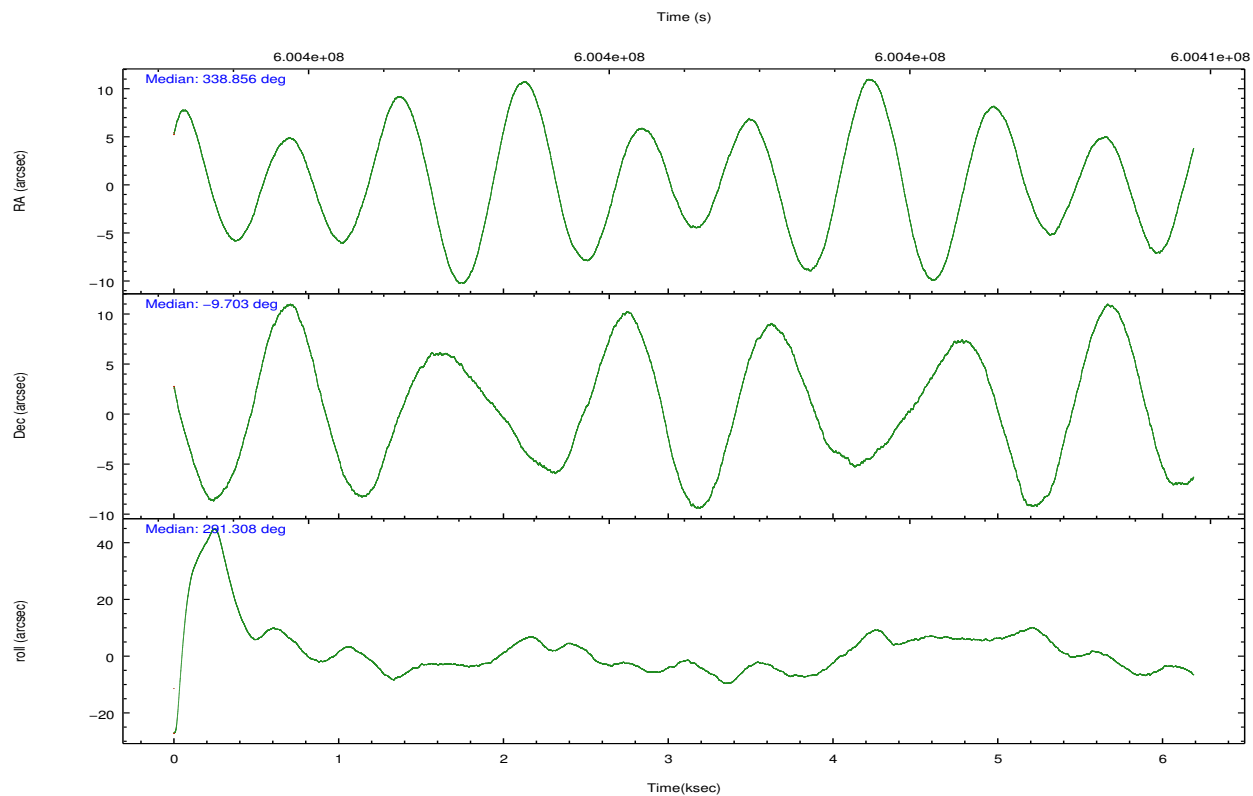
	ccd 0	ccd 2
grade 0 events	853	836
	4%	3%
grade 1 events	12	13
	0%	0%
grade 2 events	581	526
	2%	2%
grade 3 events	344	300
	1%	1%
grade 4 events	315	317
	1%	1%
grade 5 events	890	880
	4%	3%
grade 6 events	501	423
	2%	1%
grade 7 events	16490	20402
	82%	86%

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	338.834519	338.8564056114204	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-9.685400	-9.702639068681037	Subarray start row	513	513
[deg] Pointing Roll	291.092512	291.304765734703	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)	600399593.184000	600399216.18369			
Observation start date	2017-01-10T01:38:44	2017-01-10T01:33:36			
[s] Observation end time (MET)	600405593.184000	600405726.47157			
Observation end date	2017-01-10T03:18:44	2017-01-10T03:22:06			
Read mode	TIMED	TIMED			

2.3 Aspect



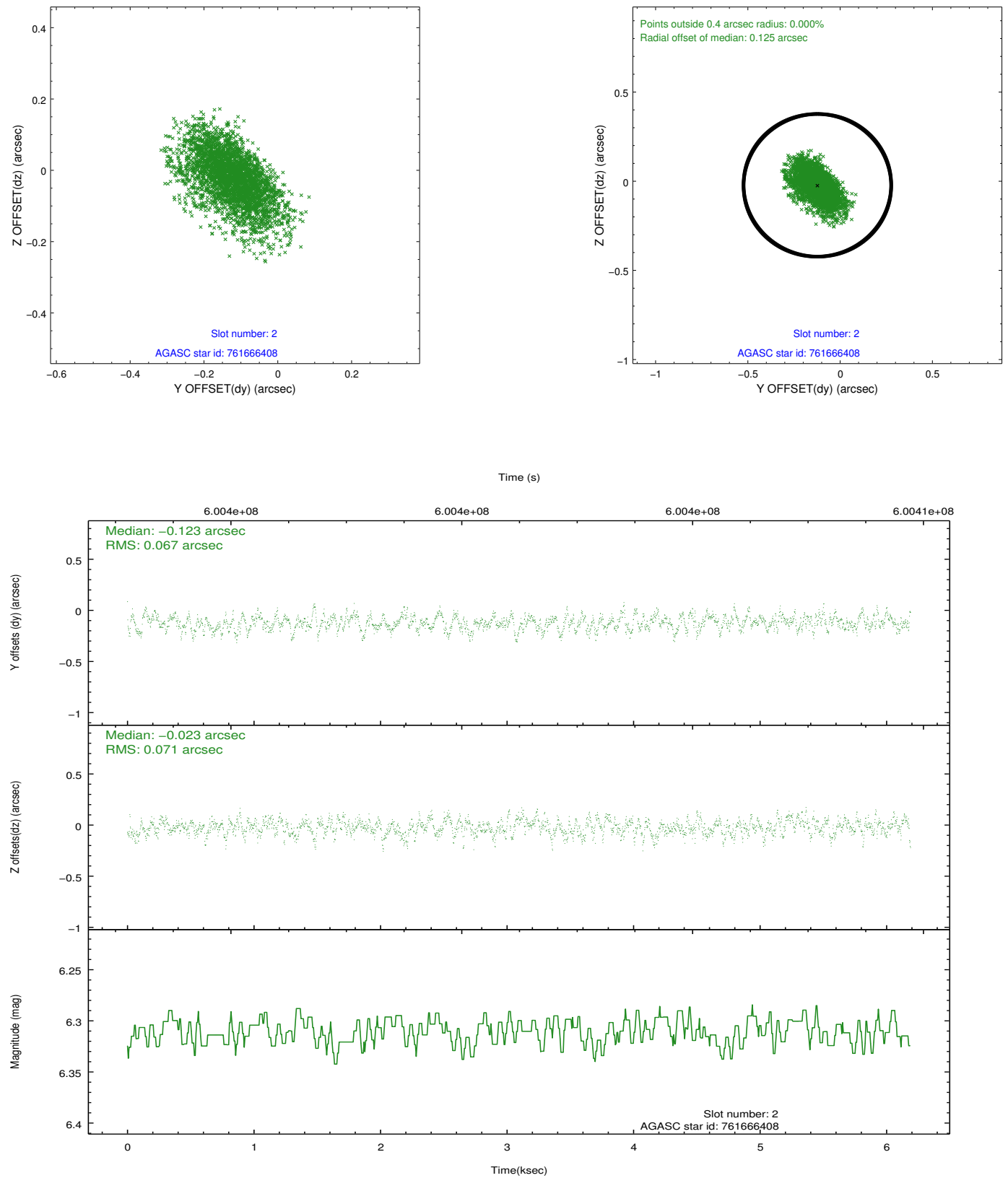


Slot Statistics

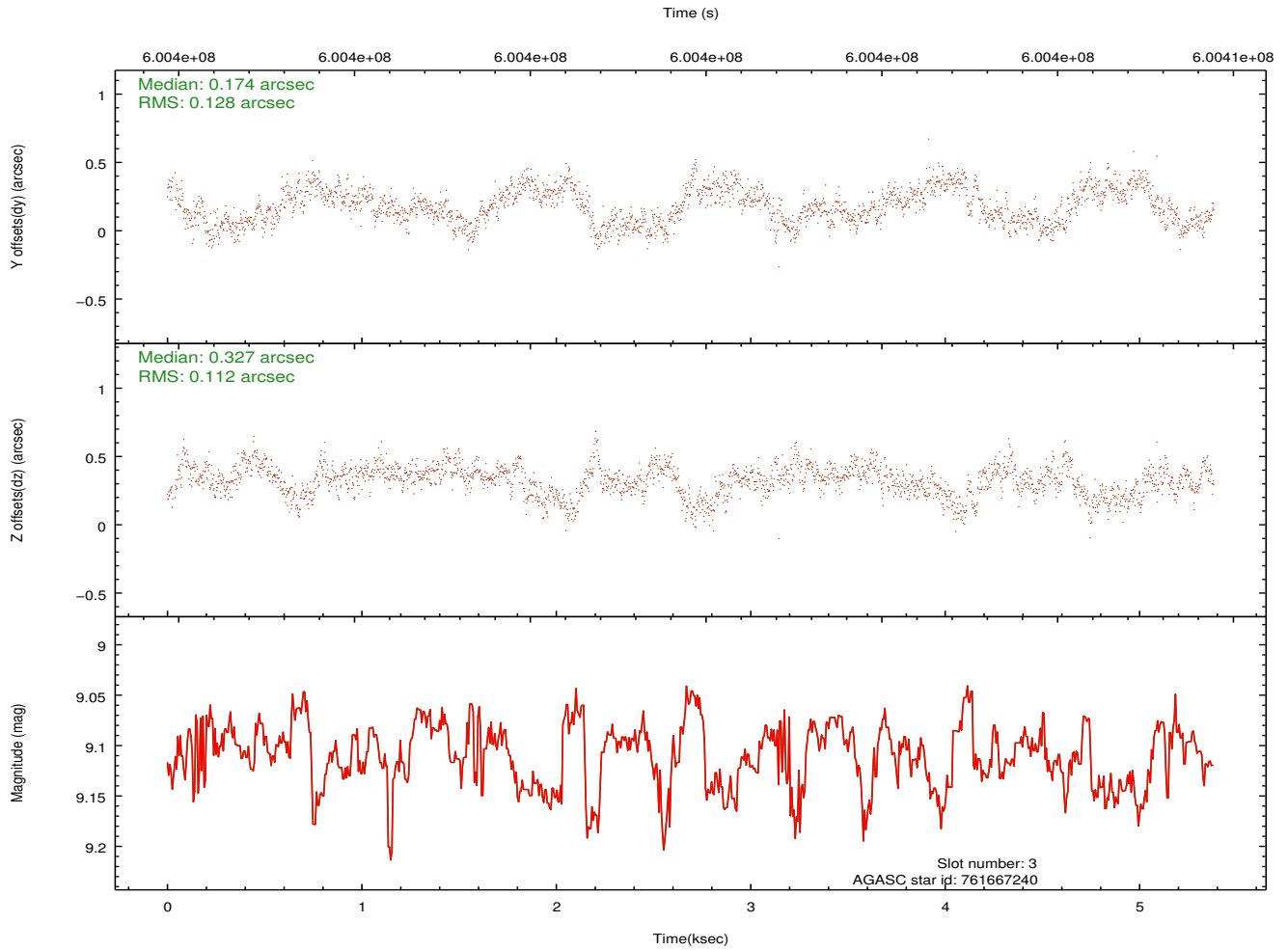
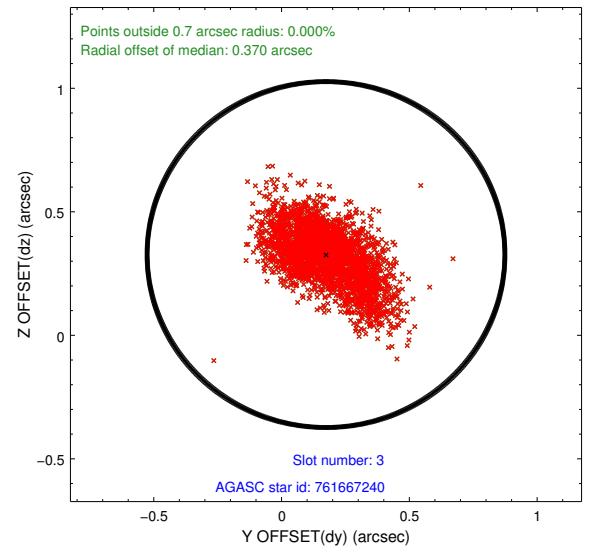
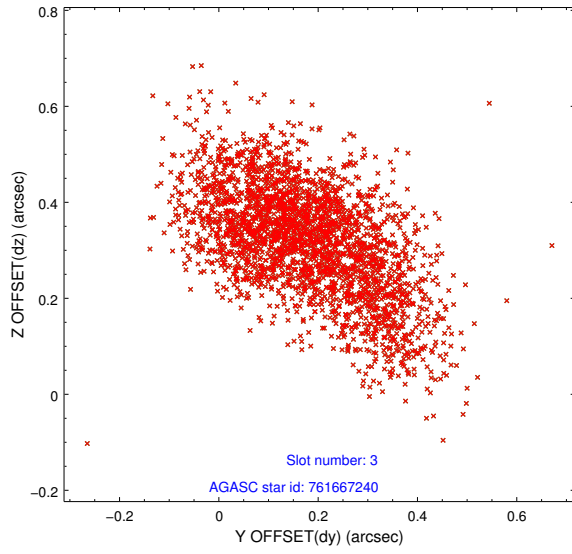
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-2	7.06	1509	-0.006	-0.024	0.008	0.016	0.000000	0.000000	-769.70	-851.73
1	FID		ACIS-I-5	7.15	1510	-0.057	0.072	0.008	0.016	0.000000	0.000000	-1824.39	1051.67
2	GUIDE	used	761666408	6.31	3020	-0.123	-0.023	0.102	0.175	338.527561	-9.608492	-650.41	-917.07
3	BAD	unused	761667240	9.11	2620	0.174	0.327	0.179	0.305	338.639466	-9.137380	-2090.32	63.71
4	GUIDE	used	761670320	9.20	3018	-0.078	-0.011	0.144	0.253	339.180611	-8.948429	-2032.80	2103.52
5	GUIDE	used	761670696	9.34	3015	0.312	0.338	0.182	0.315	338.284918	-9.212445	-2290.62	-1208.67
6	GUIDE	used	761672120	8.07	3020	-0.028	-0.258	0.100	0.173	339.232283	-9.389338	-486.17	1701.15
7	GUIDE	used	761672136	8.53	3018	-0.073	-0.041	0.098	0.177	339.196147	-9.393141	-519.18	1577.70

2.4 Star Slots

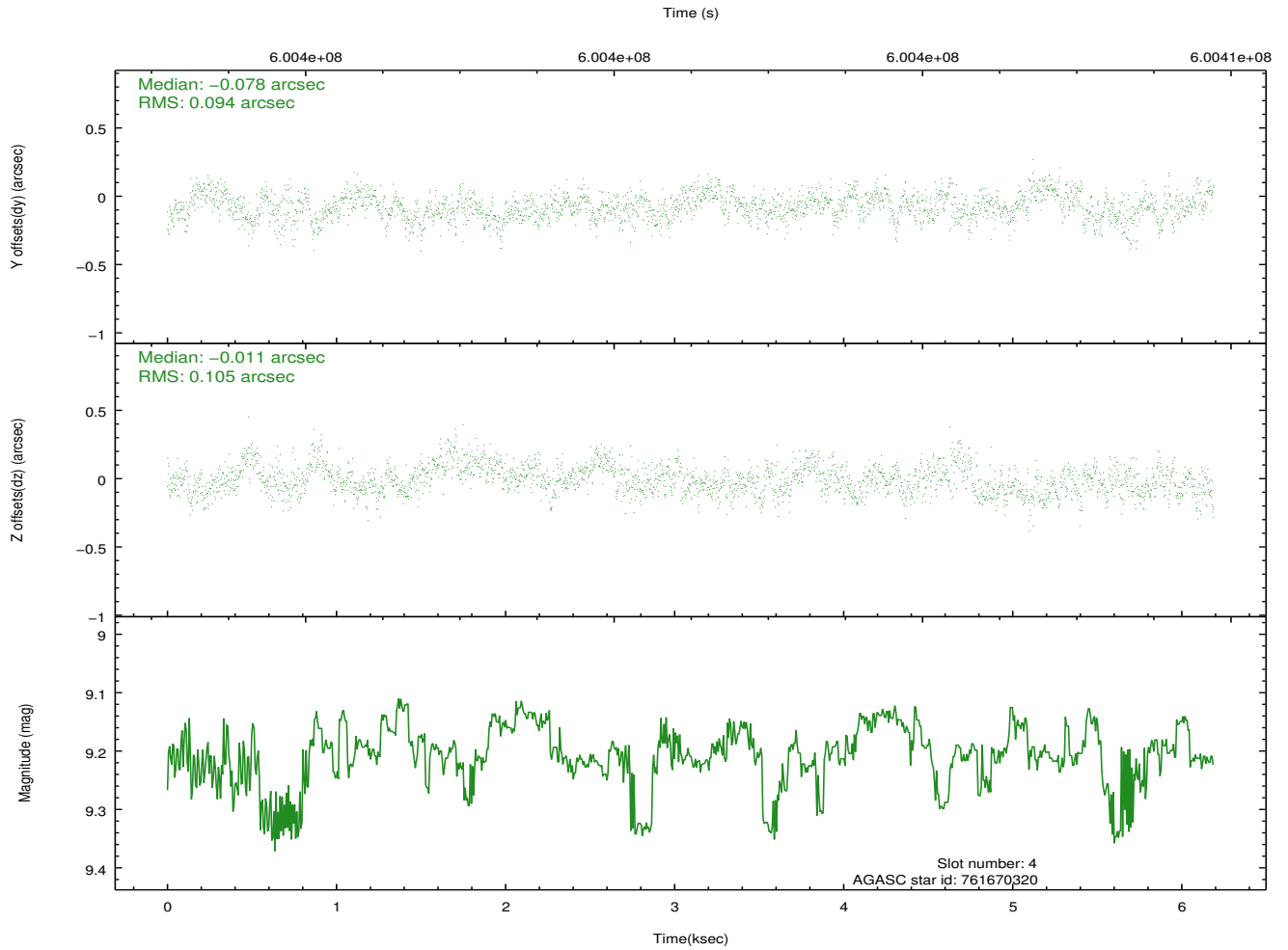
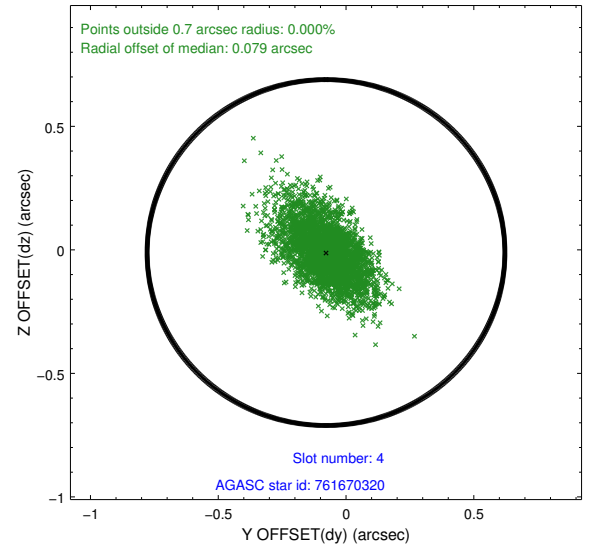
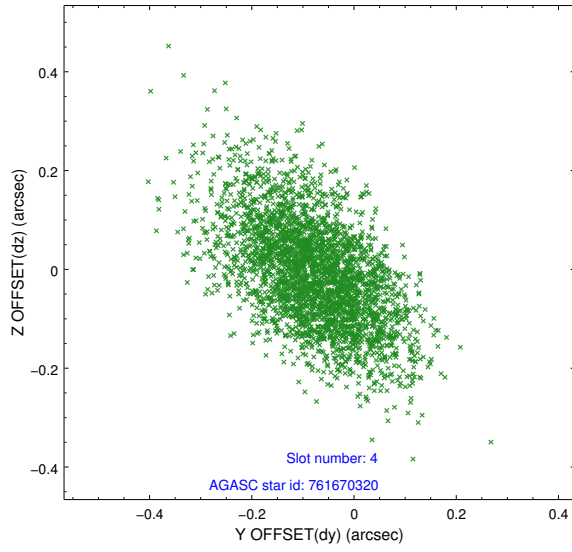
2.4.1 Slot 2



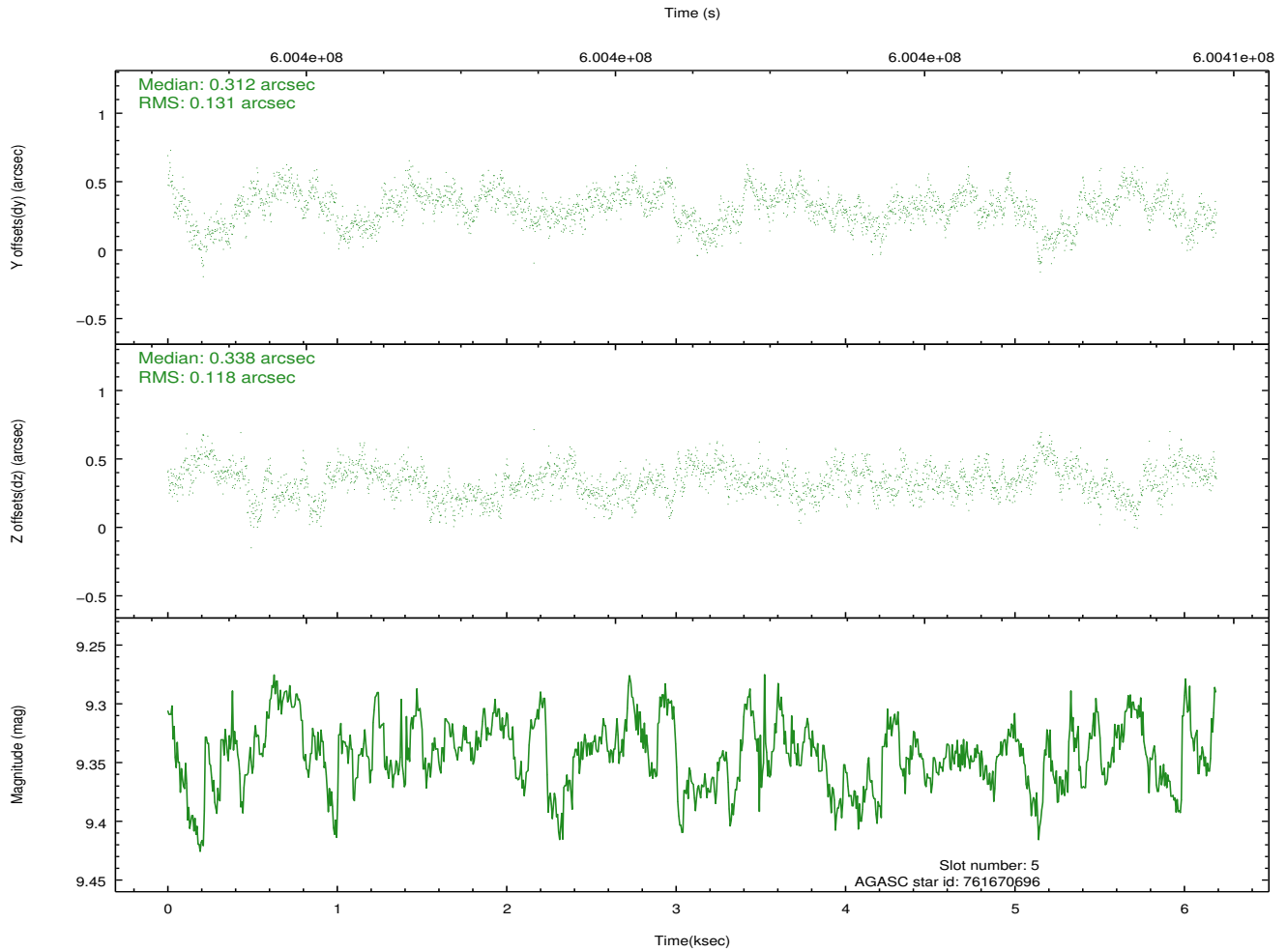
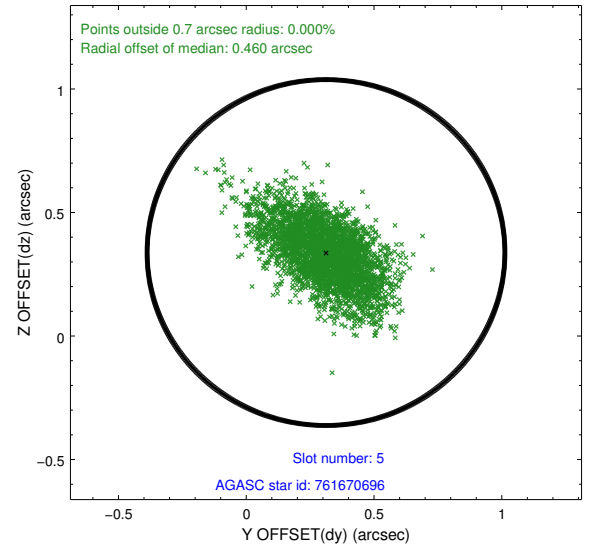
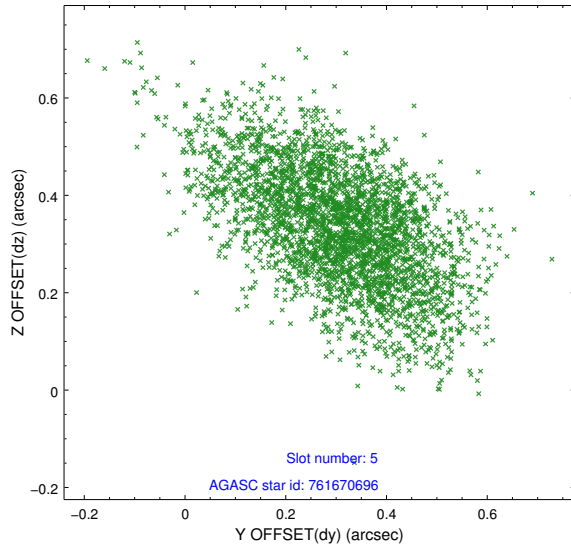
2.4.2 Slot 3



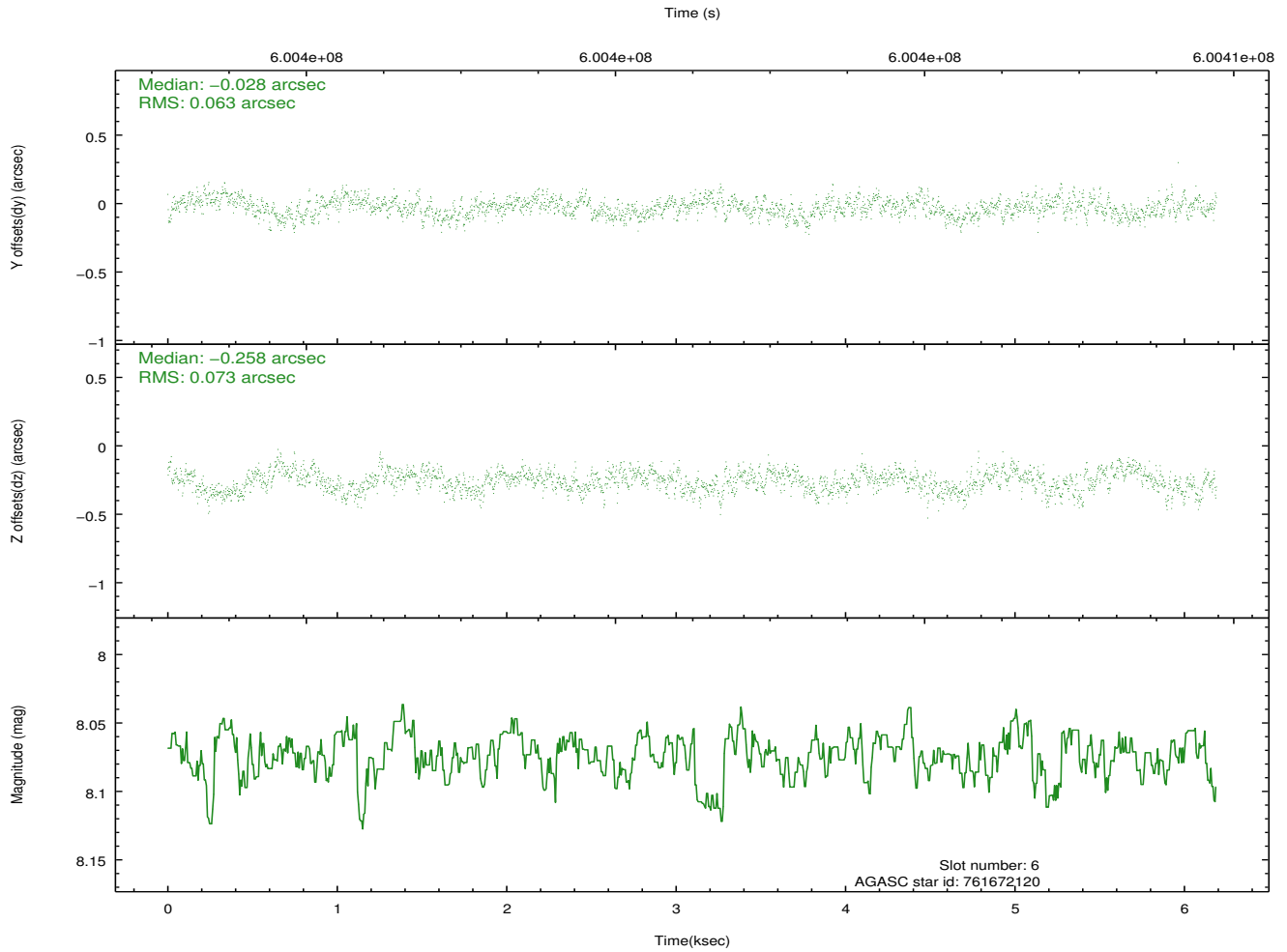
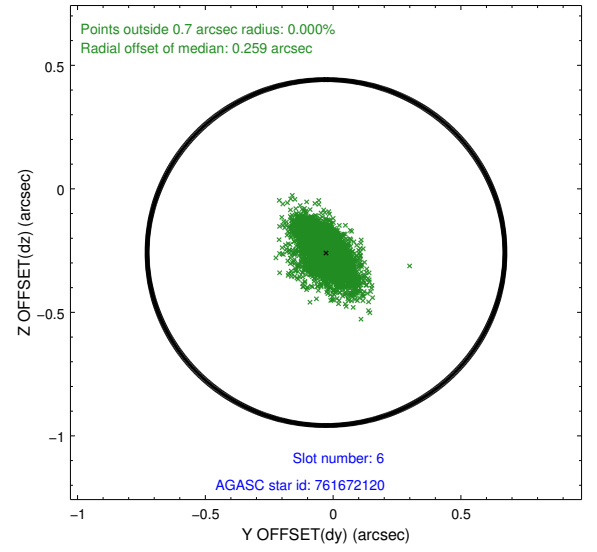
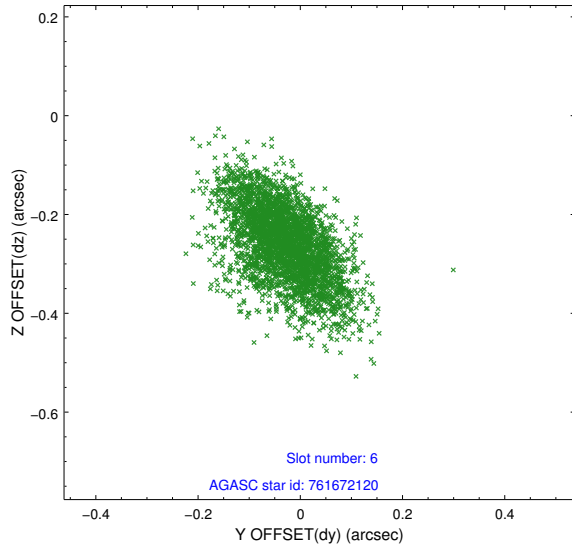
2.4.3 Slot 4



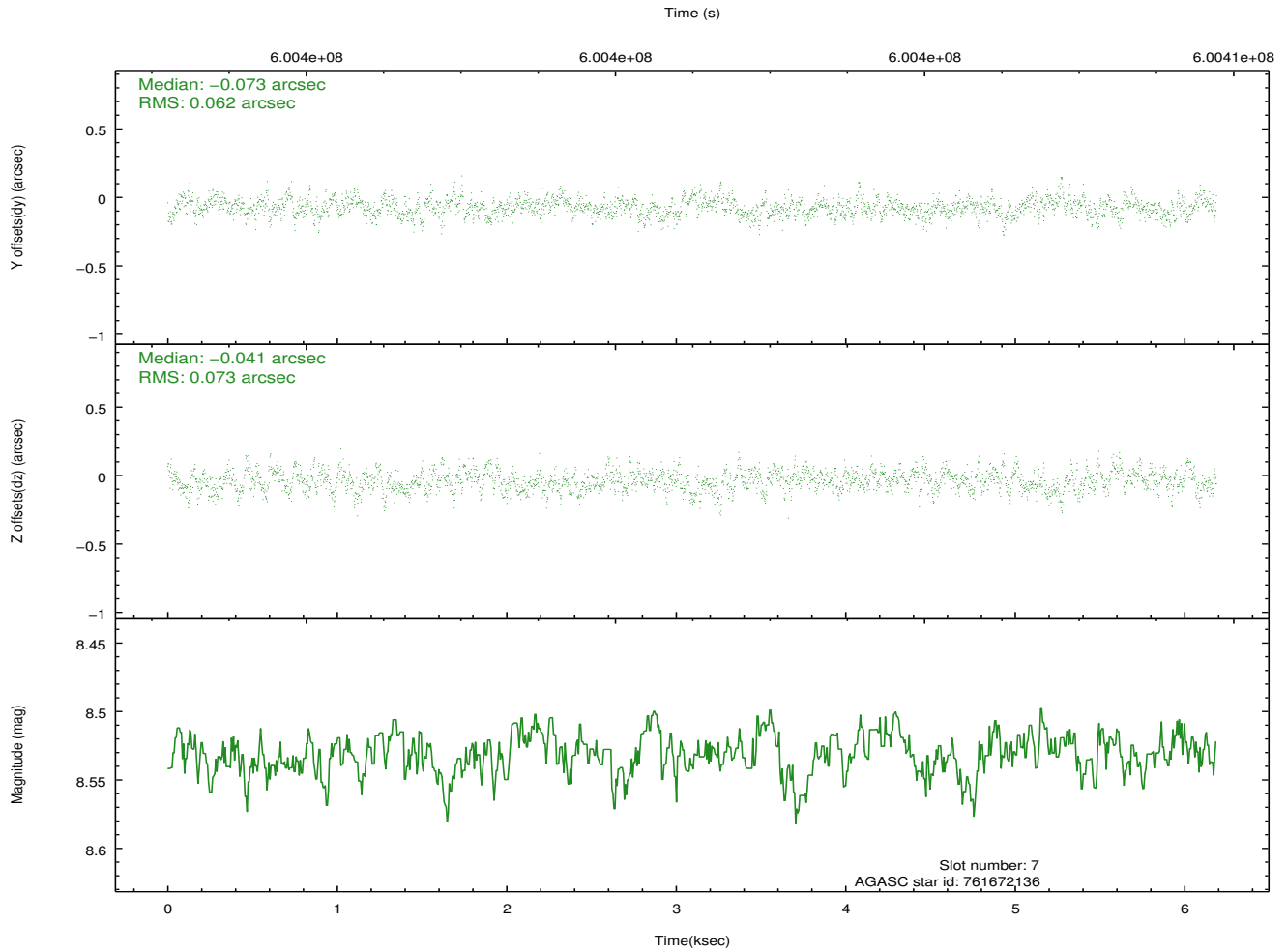
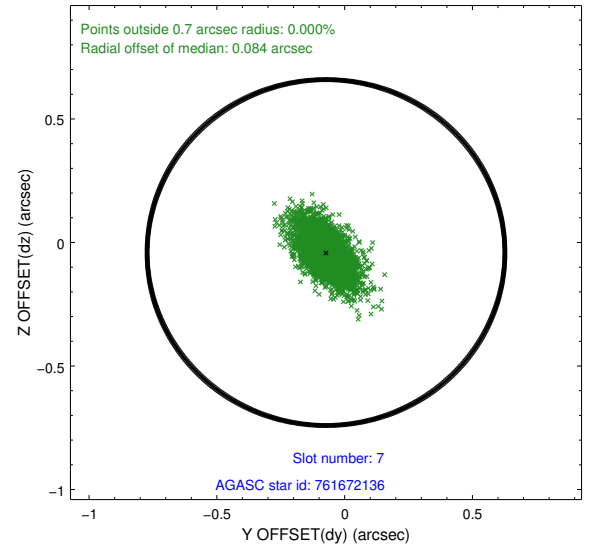
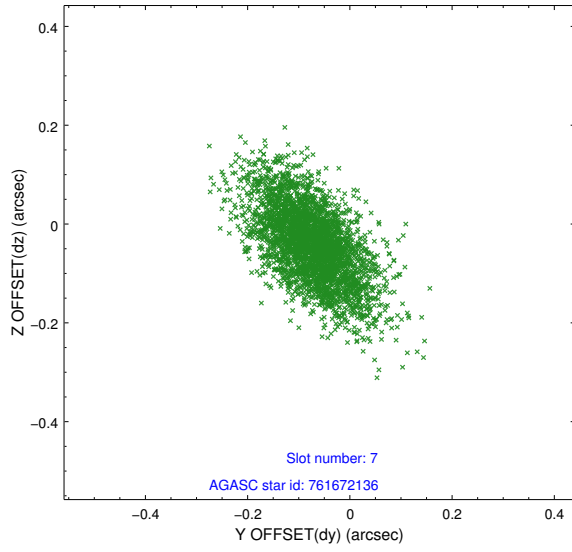
2.4.4 Slot 5



2.4.5 Slot 6

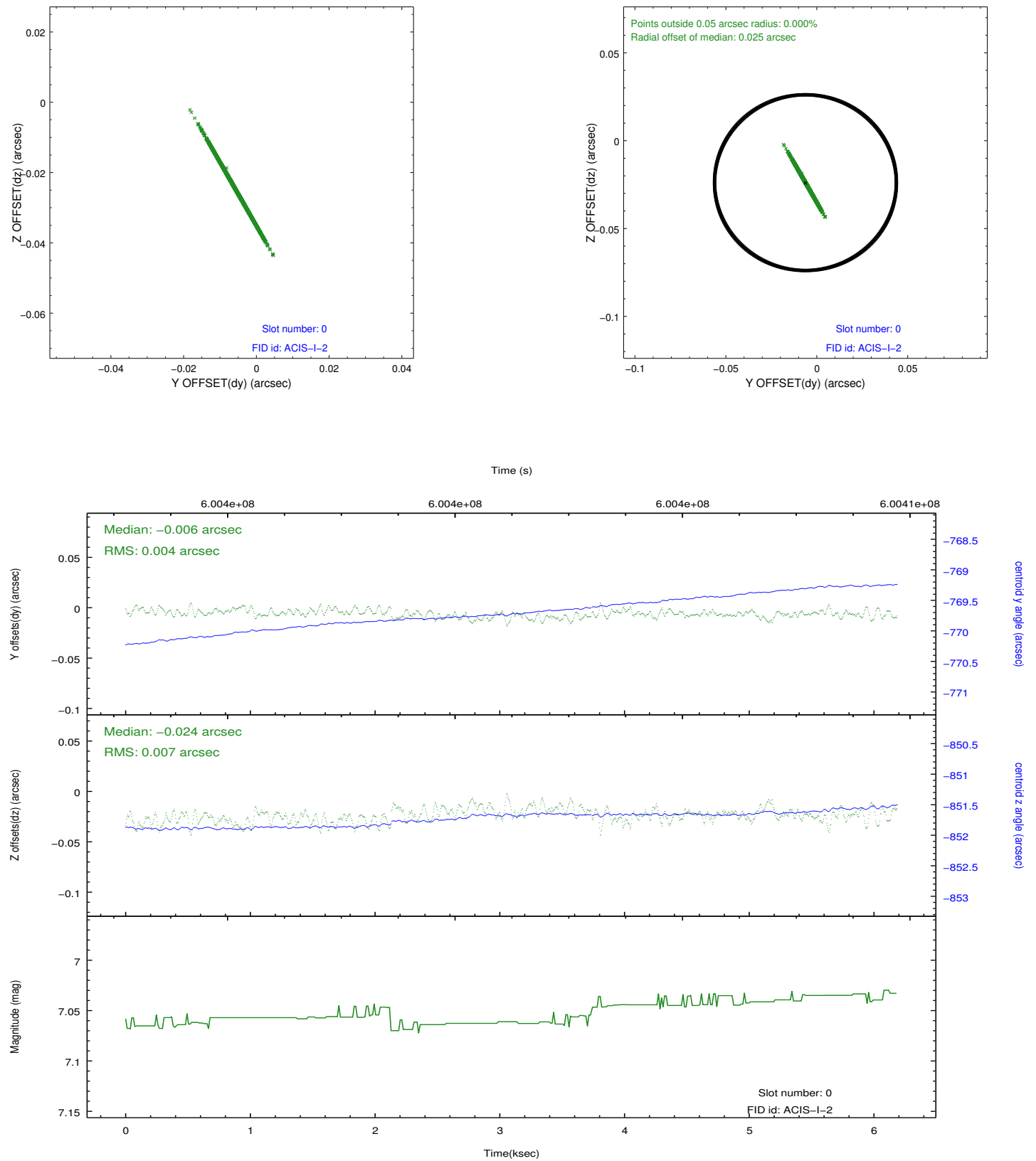


2.4.6 Slot 7

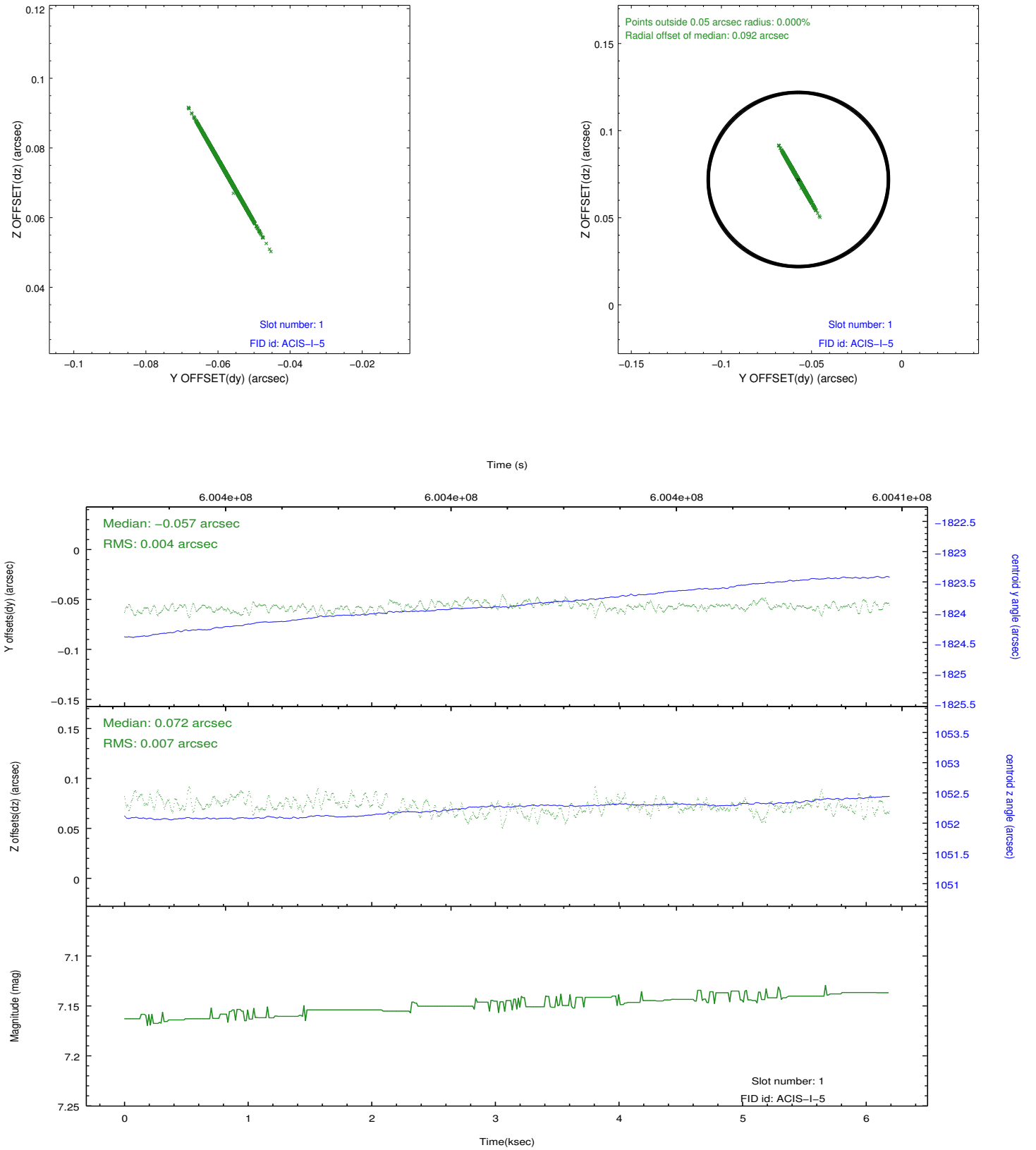


2.5 FID Slots

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	5.8351327112913

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.