

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18696 - L2 Version 1
Chandra X-Ray Center

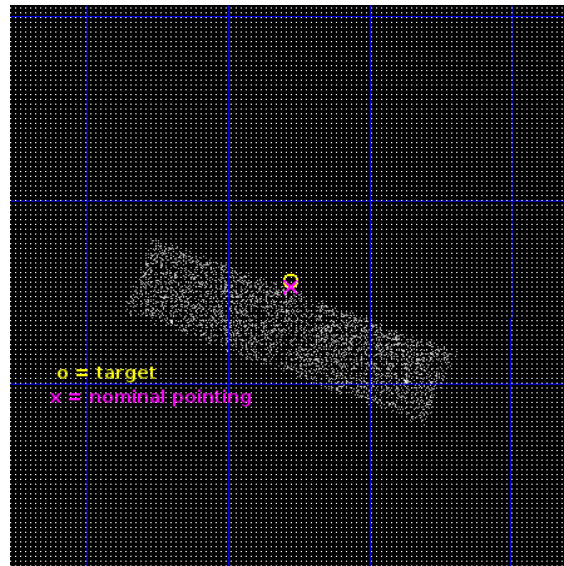
L2 Processing Date : Jan 11 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 2	9
2.4.2	Slot 3	10
2.4.3	Slot 4	11
2.4.4	Slot 5	12
2.4.5	Slot 6	13
2.4.6	Slot 7	14
2.5	FID Slots	15
2.5.1	Slot 0	15
2.5.2	Slot 1	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

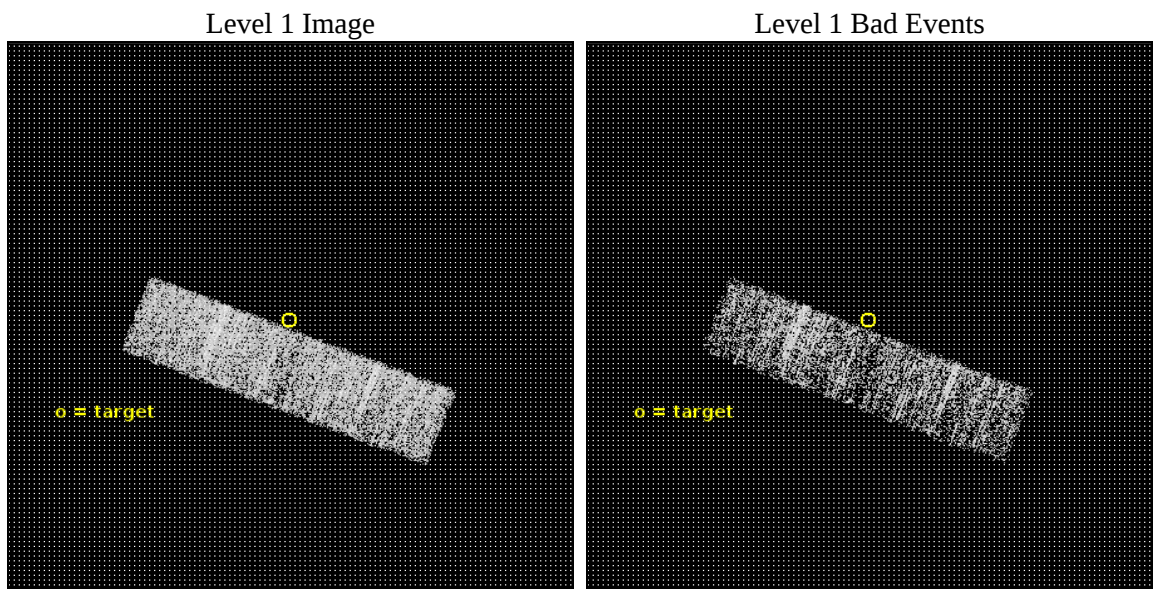
seq_num	100153	Sequence number
obs_id	18696	Observation id
title	Venus in an intermediate phase of the solar cycle	Proposal title
observer	Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	339.068982	Observer's specified target RA [deg]
dec_targ	-9.573974	Observer's specified target Dec [deg]
ra_nom	339.06903938955	Nominal RA [deg]
dec_nom	-9.5786264569692	Nominal Dec [deg]
roll_nom	291.37177421434	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5136.0000766516	Sum of GTIs [s]
liveltime	5007.556258618	Livetime [s]
ontime0	5132.6774243116	Sum of GTIs [s]
ontime2	5136.0000766516	Sum of GTIs [s]
l2events	3401	Number of level 2 events



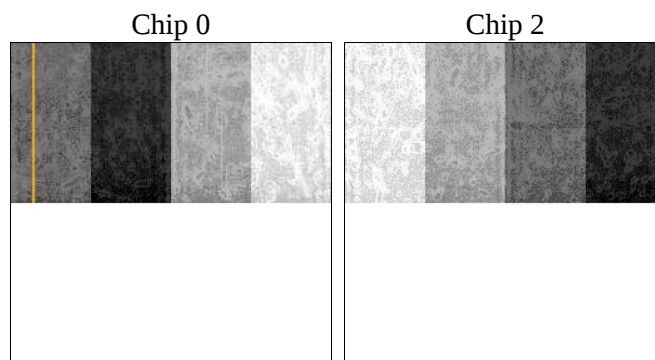
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5300.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	5136.0000766516	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	5132.6774243116	Sum of GTIs [s]
date	2017-01-11T11:48:06	Date and time of file creation	ontime2	5136.0000766516	Sum of GTIs [s]
revision	1	Processing version of data	l1events	38176	Number of level 1 events

2.1.4 Events

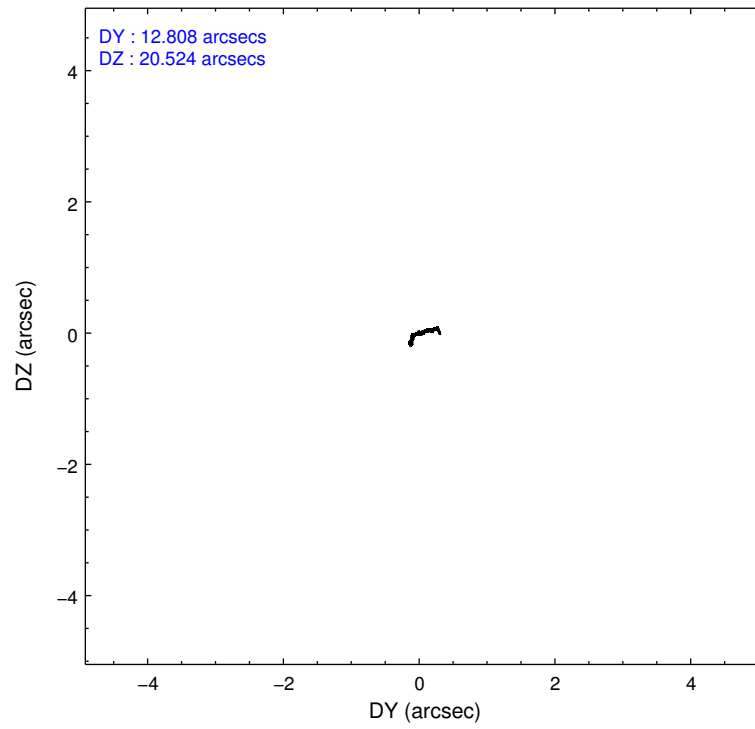
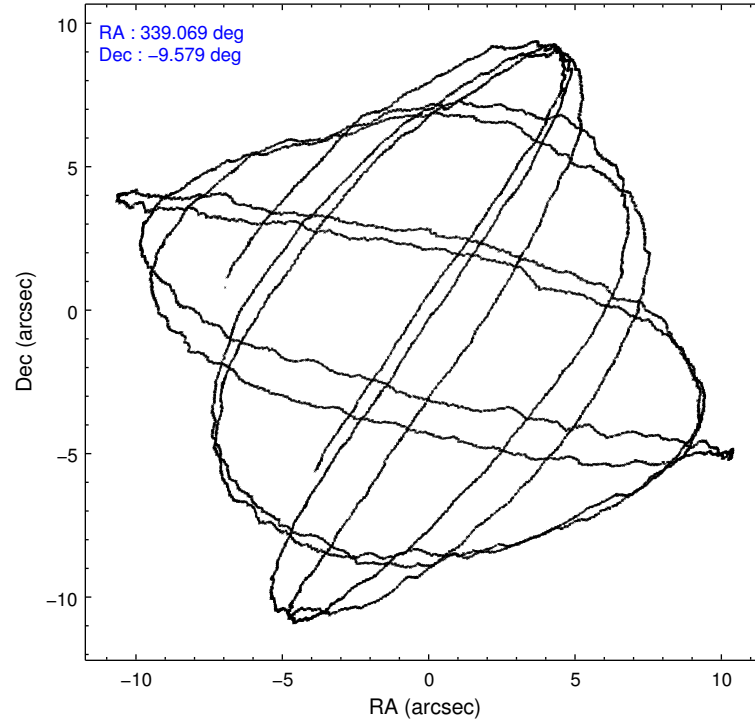
	ccd 0	ccd 2
level 1 events	18239	19937
rejected events	15974	17767
rejected %	87%	89%

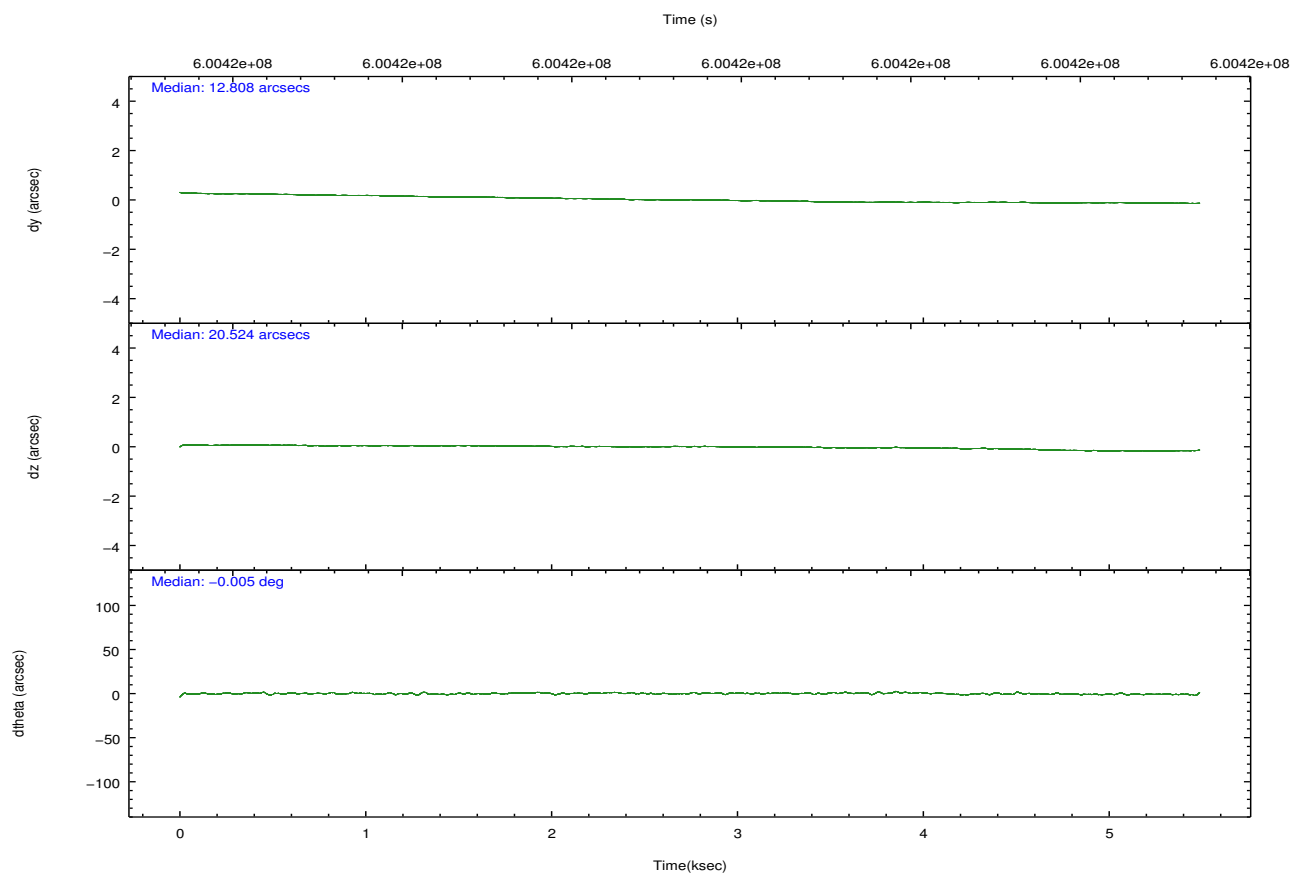
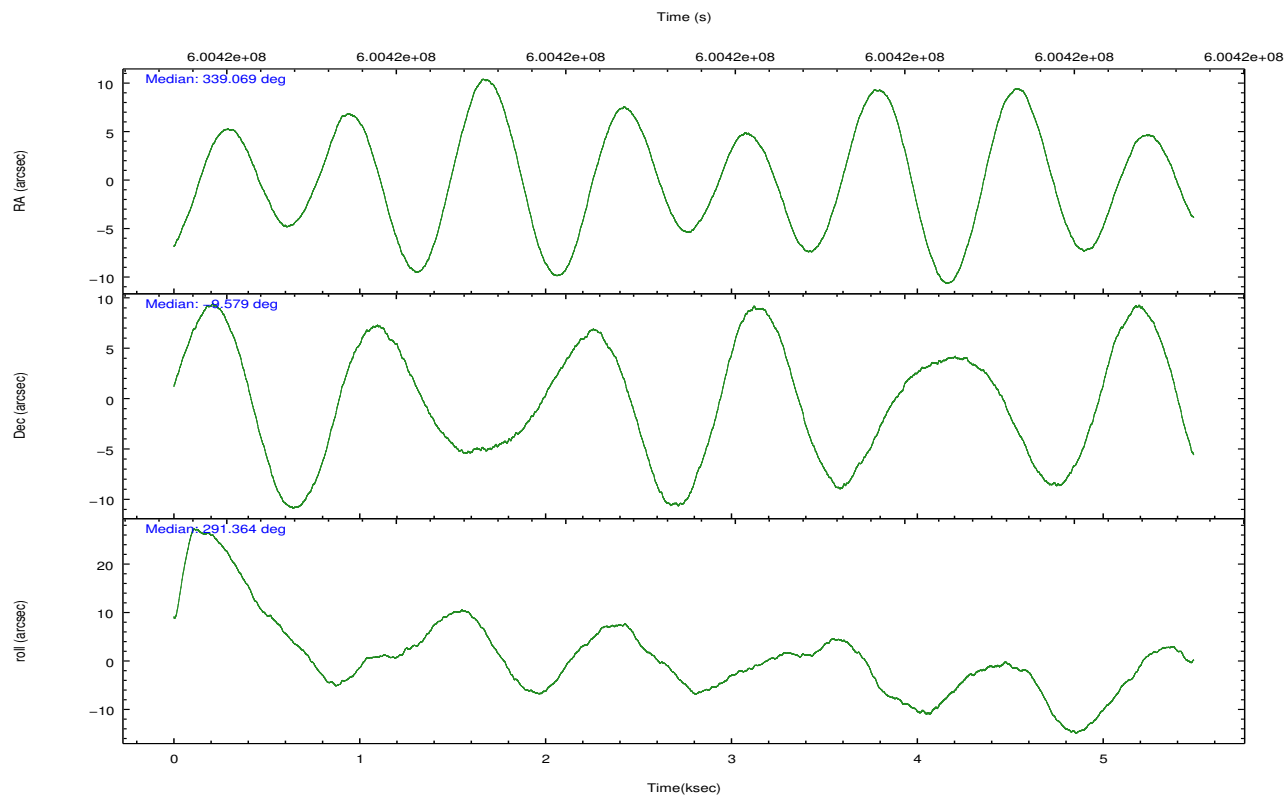
	ccd 0	ccd 2
grade 0 events	723	743
	3%	3%
grade 1 events	4	8
	0%	0%
grade 2 events	553	493
	3%	2%
grade 3 events	281	246
	1%	1%
grade 4 events	253	289
	1%	1%
grade 5 events	806	712
	4%	3%
grade 6 events	457	400
	2%	2%
grade 7 events	15162	17046
	83%	85%

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	339.047091	339.0690393895504	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-9.561606	-9.578626456969188	Subarray start row	513	513
[deg] Pointing Roll	291.159460	291.3717742143405	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)	600419123.184000	600418746.53483			
Observation start date	2017-01-10T07:04:14	2017-01-10T06:59:06			
[s] Observation end time (MET)	600424423.184000	600424780.19768			
Observation end date	2017-01-10T08:32:34	2017-01-10T08:39:40			
Read mode	TIMED	TIMED			

2.3 Aspect



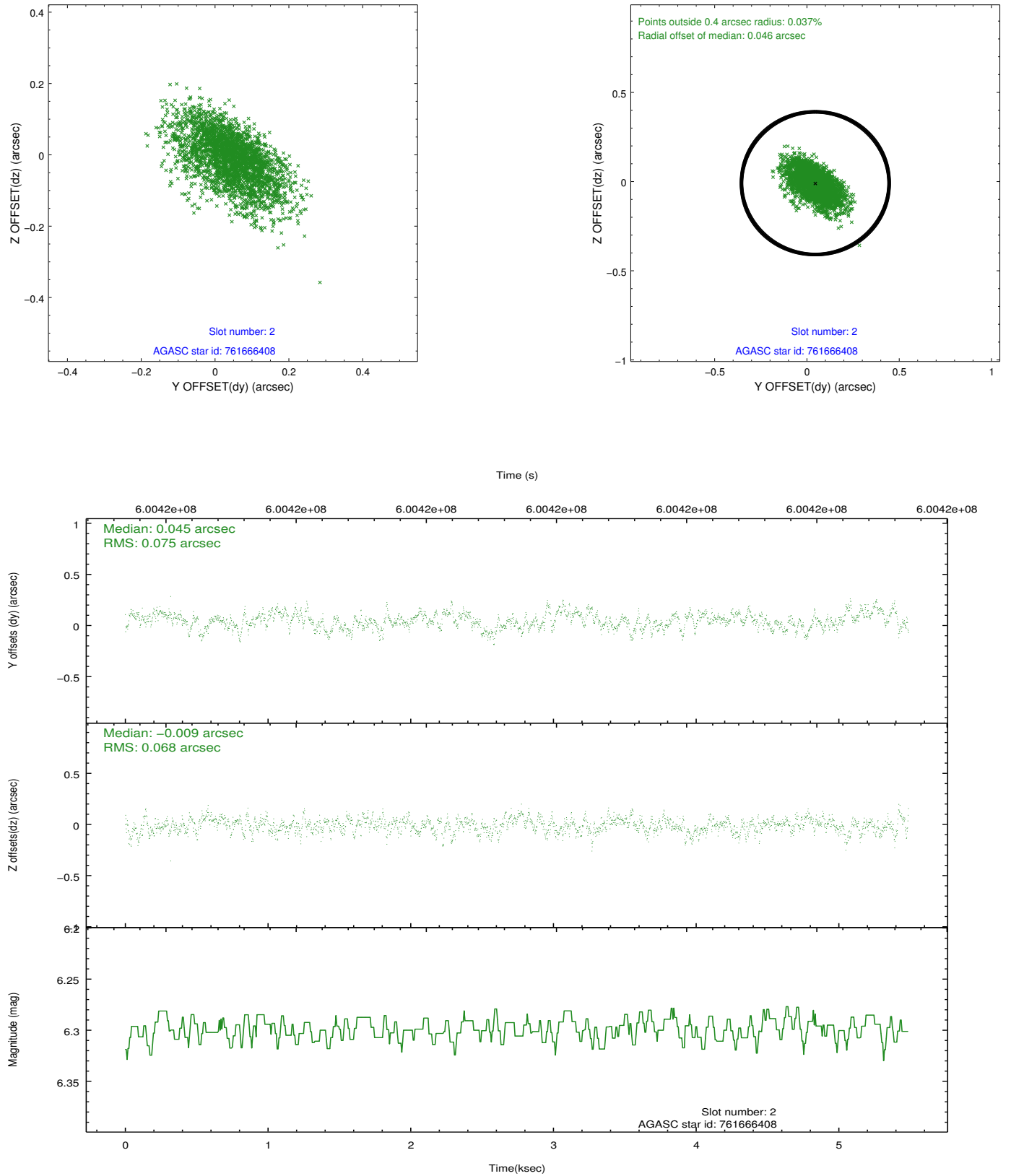


Slot Statistics

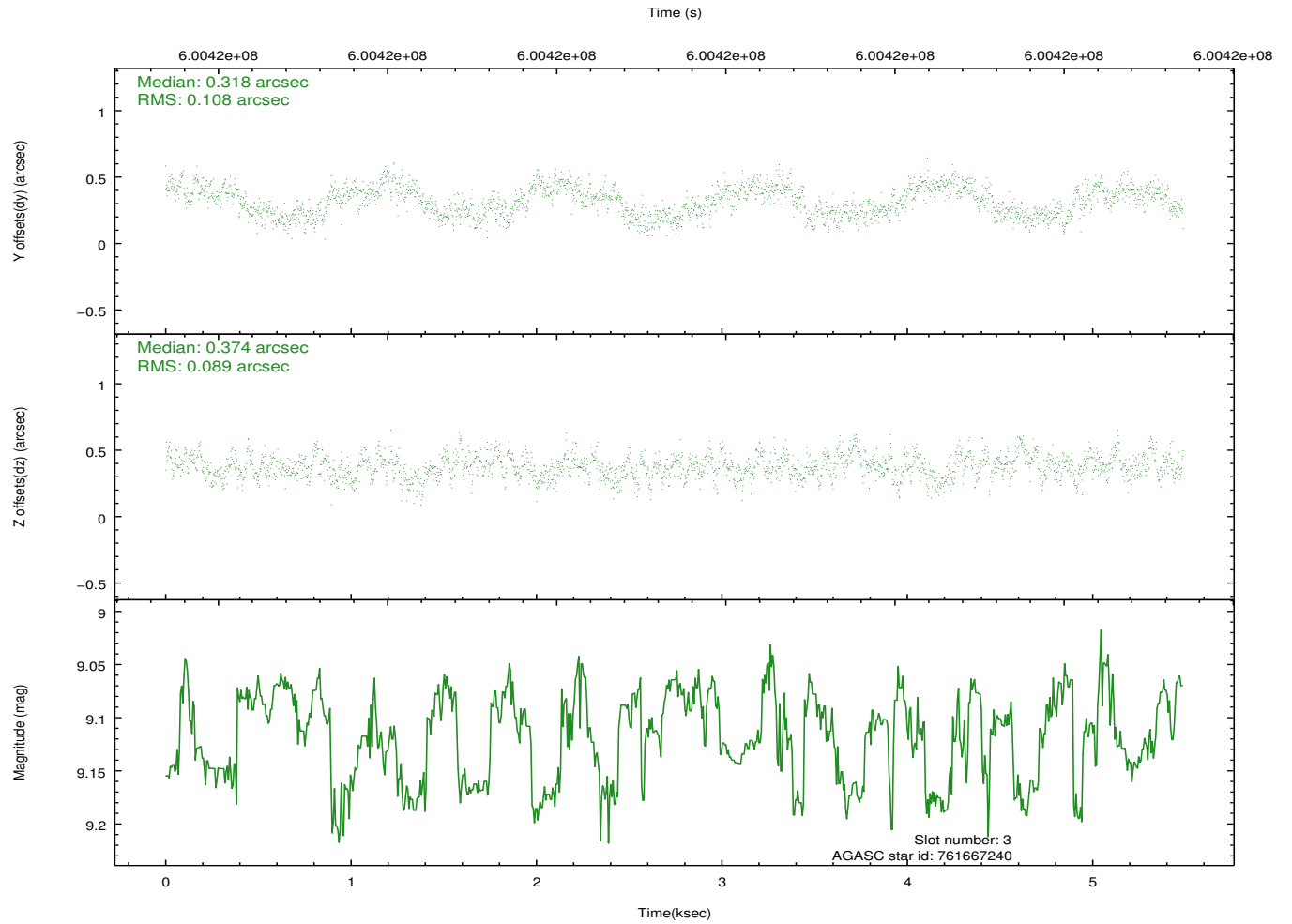
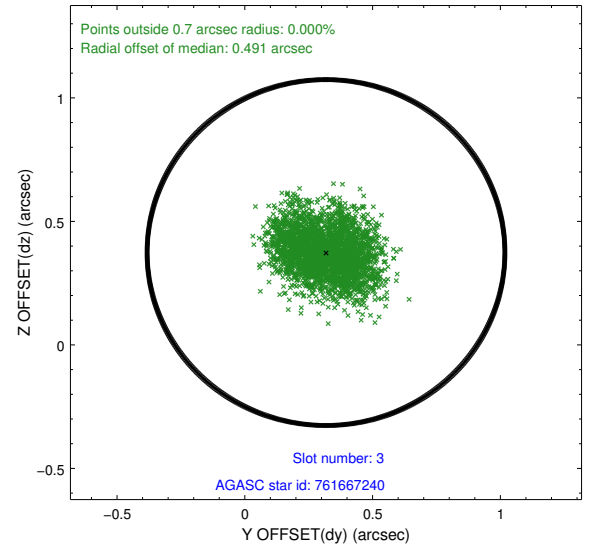
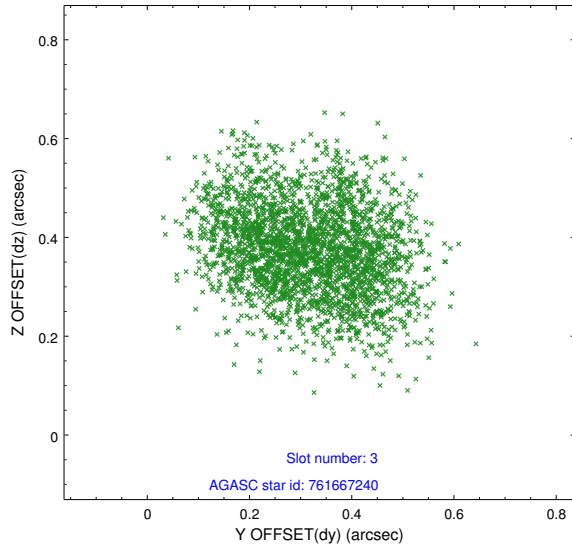
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-2	7.02	1339	-0.010	-0.017	0.007	0.012	0.000000	0.000000	-767.45	-850.67
1	FID		ACIS-I-5	7.10	1338	-0.053	0.065	0.007	0.012	0.000000	0.000000	-1822.20	1052.64
2	GUIDE	used	761666408	6.30	2678	0.045	-0.009	0.105	0.181	338.527561	-9.608492	-506.09	-1781.57
3	GUIDE	used	761667240	9.11	2677	0.318	0.374	0.153	0.233	338.639466	-9.137380	-1945.64	-800.69
4	GUIDE	used	761670320	9.12	2673	-0.036	-0.022	0.253	0.366	339.180611	-8.948429	-1887.50	1239.13
5	BAD	used	761670696	9.48	2412	-0.205	-0.270	0.176	0.453	338.284918	-9.212445	-2146.56	-2073.03
6	GUIDE	used	761672120	8.07	2678	-0.036	-0.141	0.102	0.170	339.232283	-9.389338	-341.13	836.37
7	GUIDE	used	761672136	8.53	2677	-0.101	0.049	0.125	0.219	339.196147	-9.393141	-374.12	712.99

2.4 Star Slots

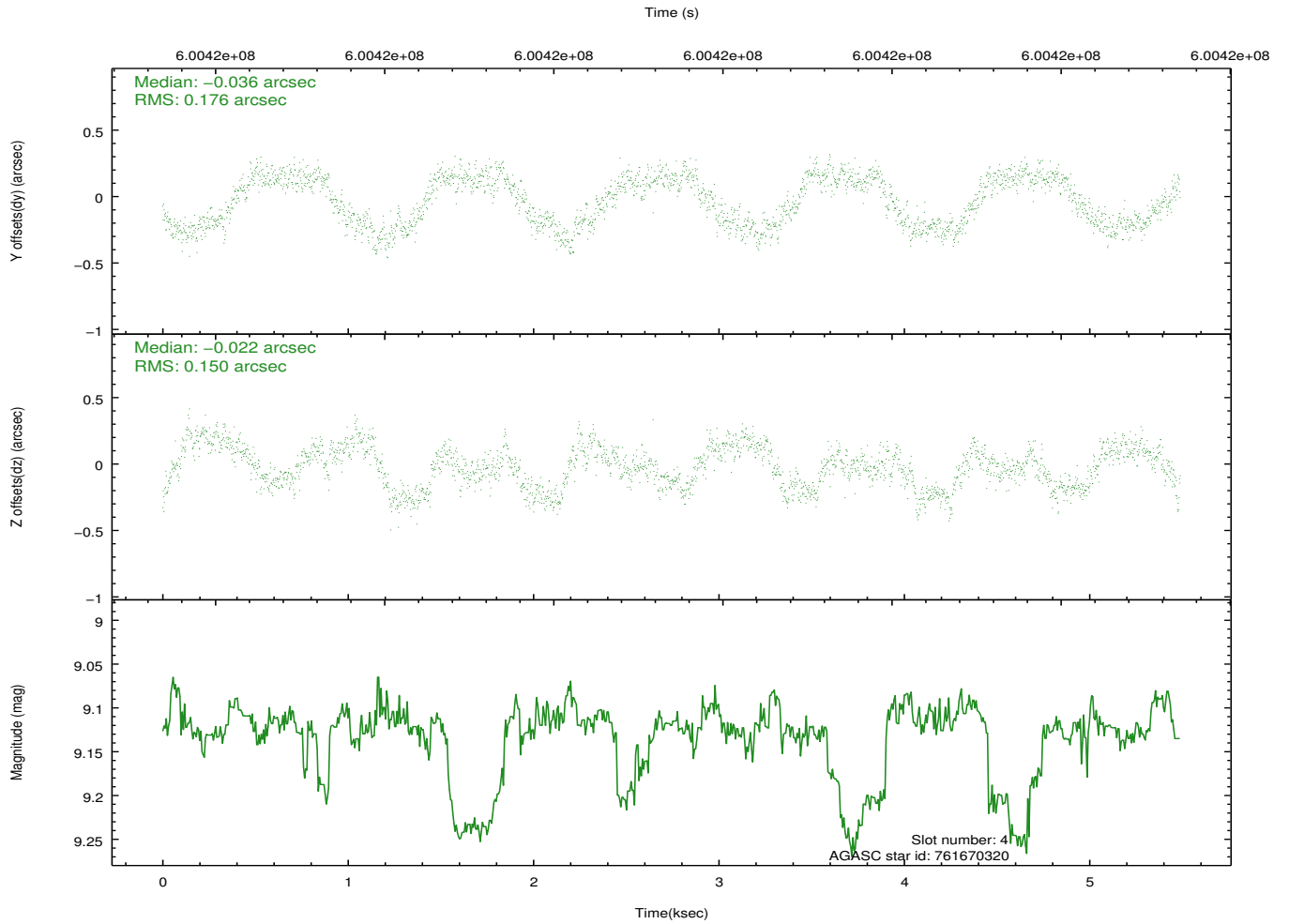
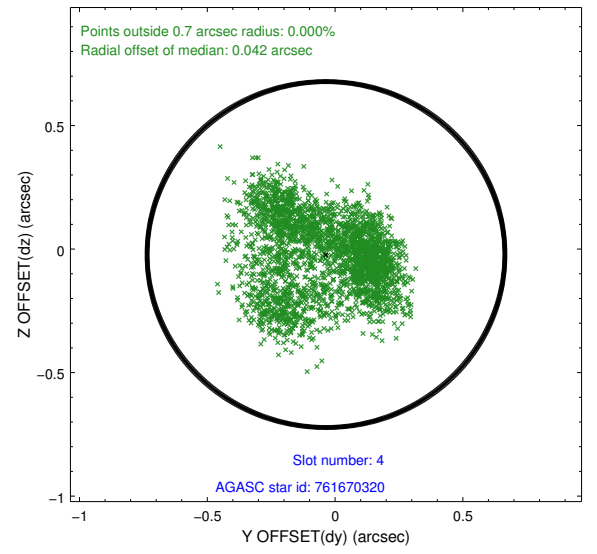
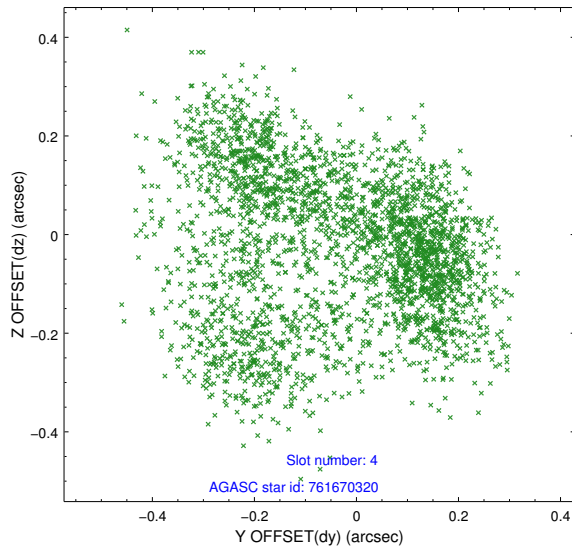
2.4.1 Slot 2



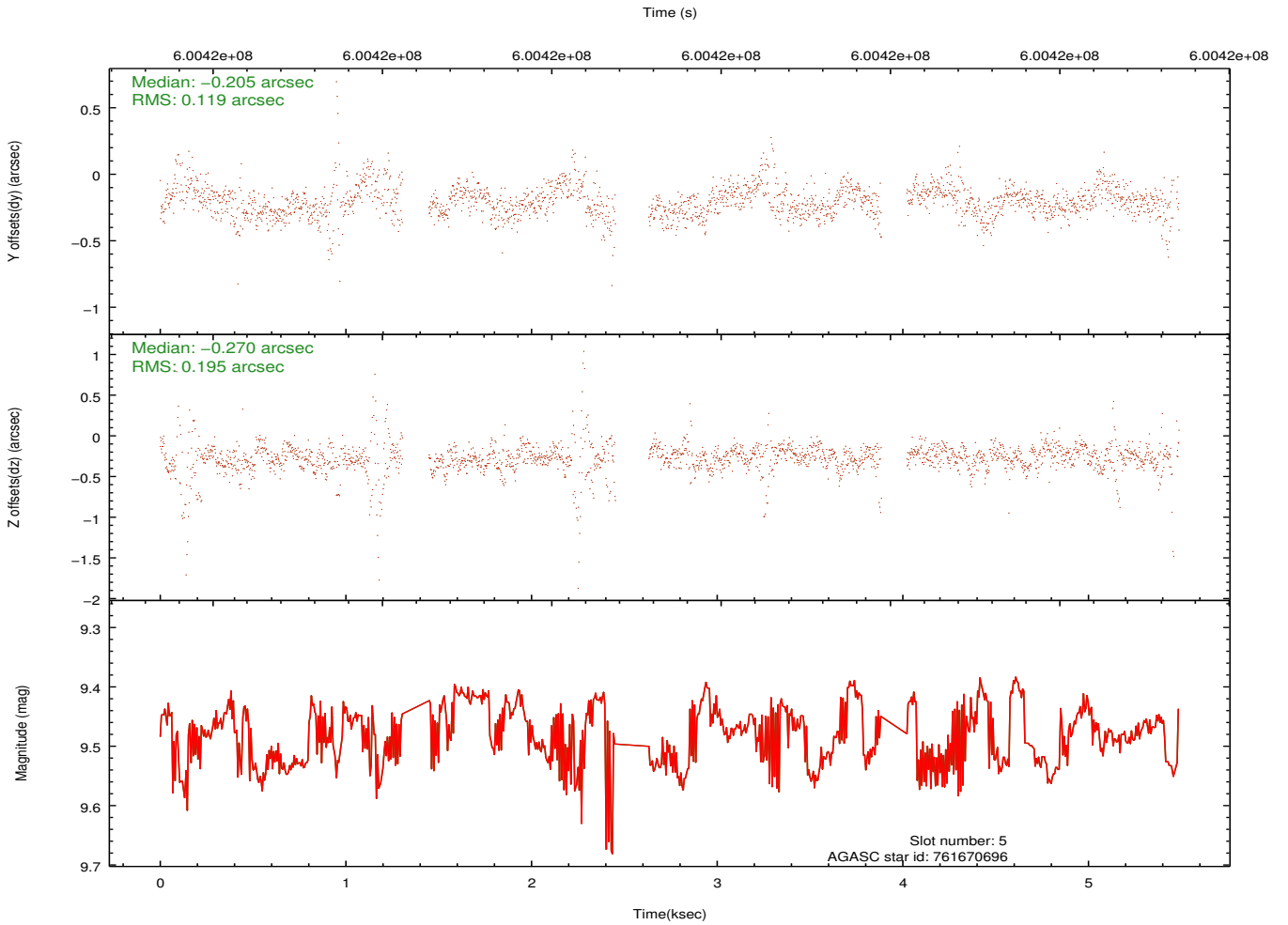
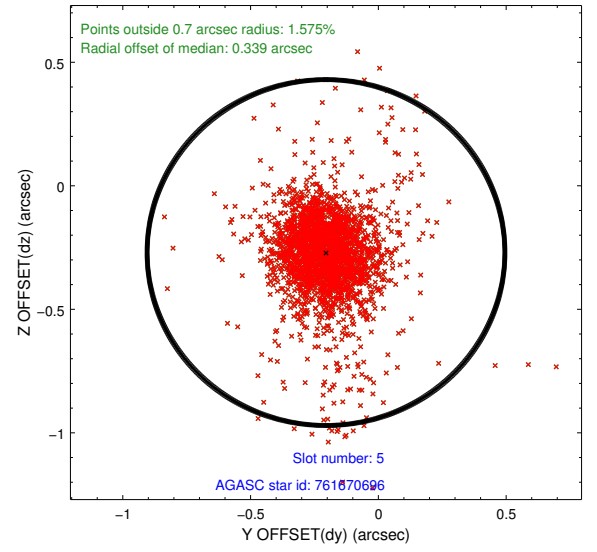
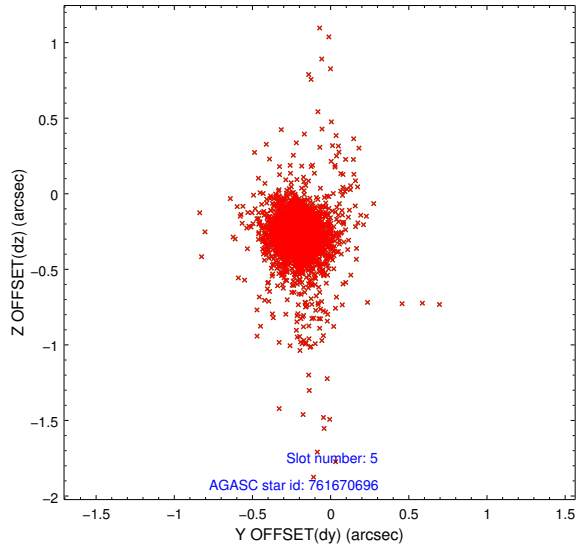
2.4.2 Slot 3



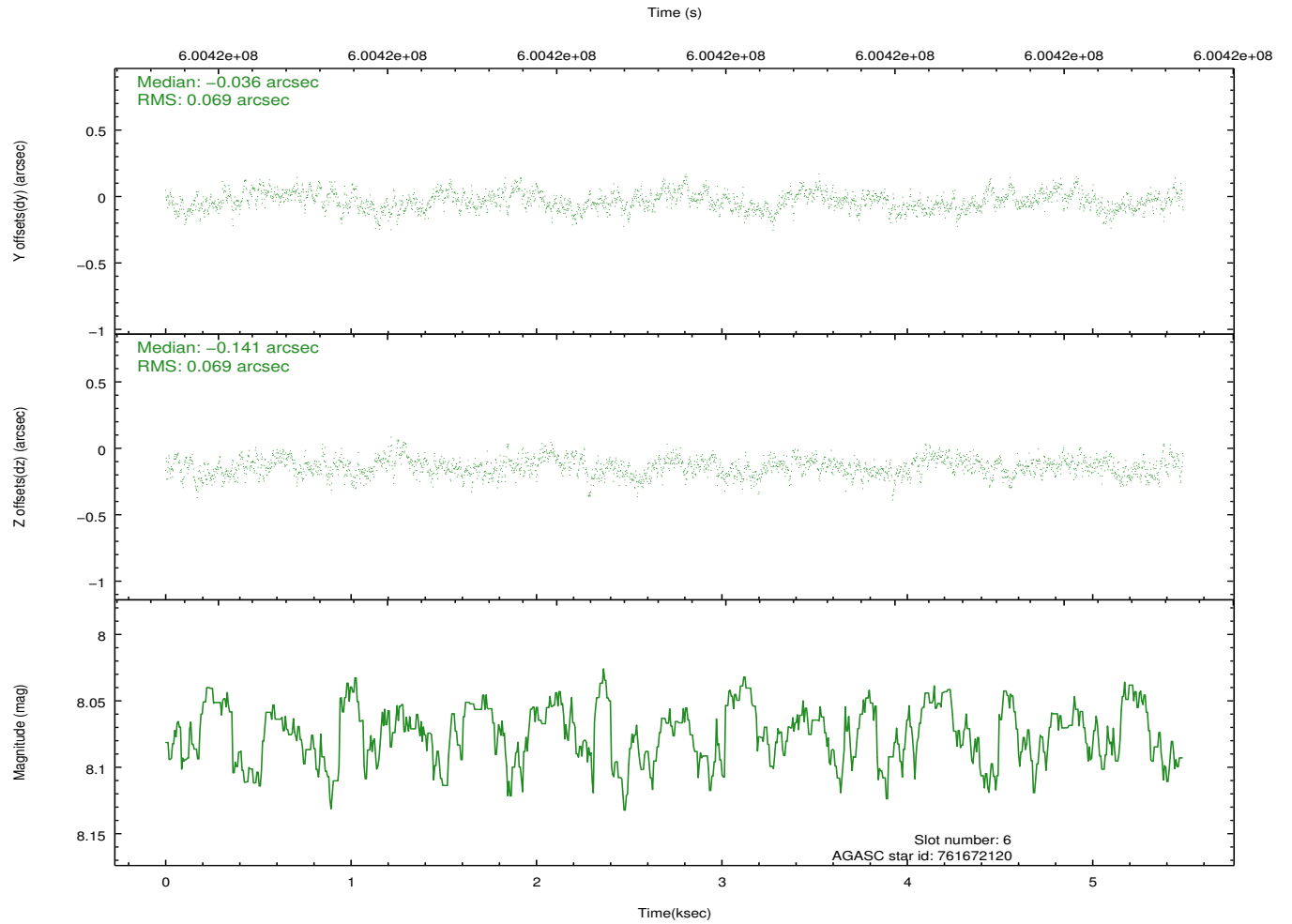
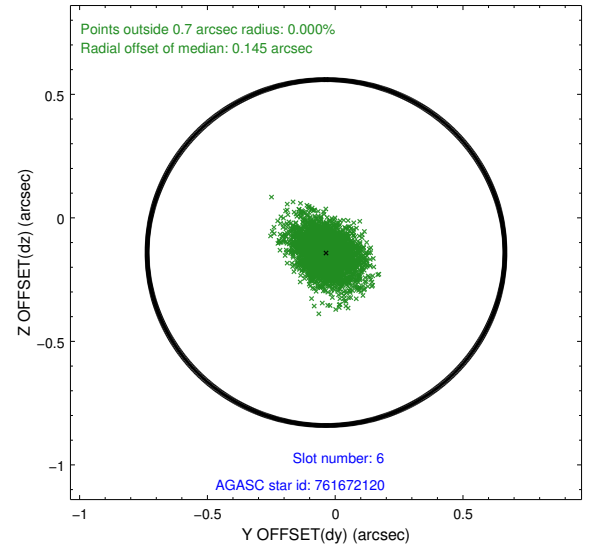
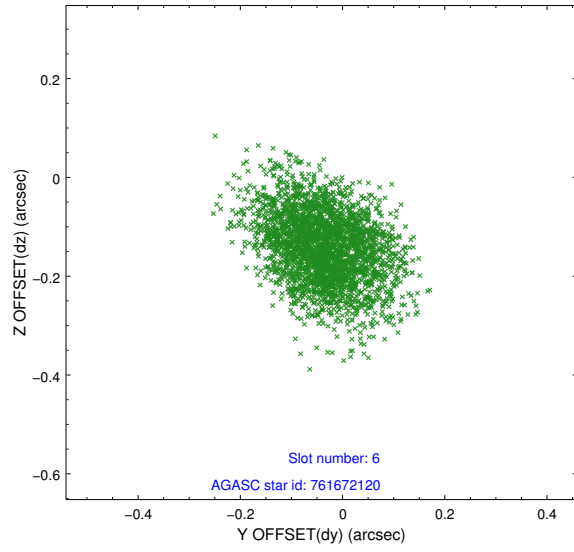
2.4.3 Slot 4



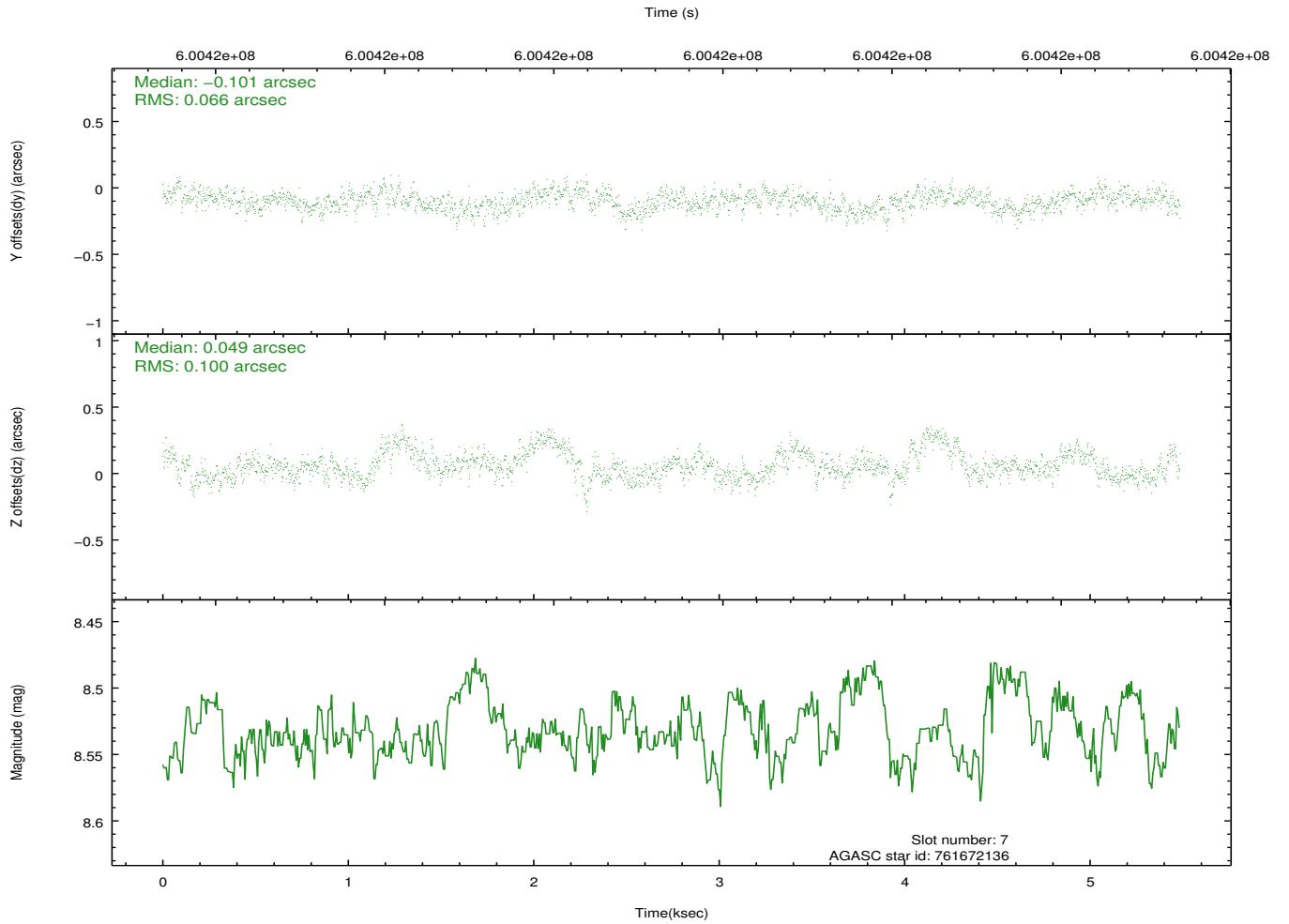
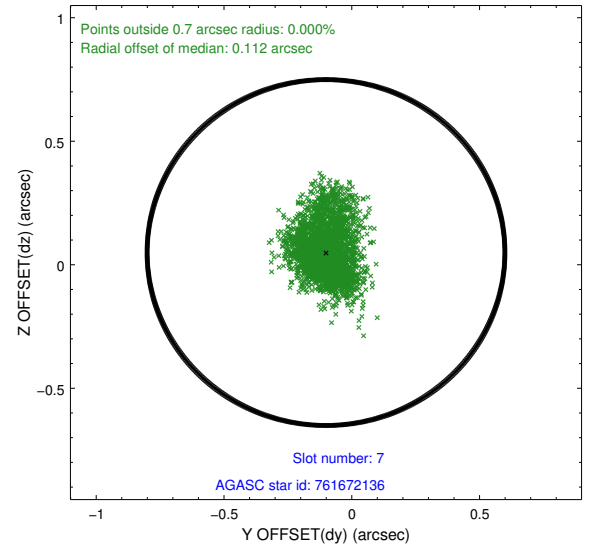
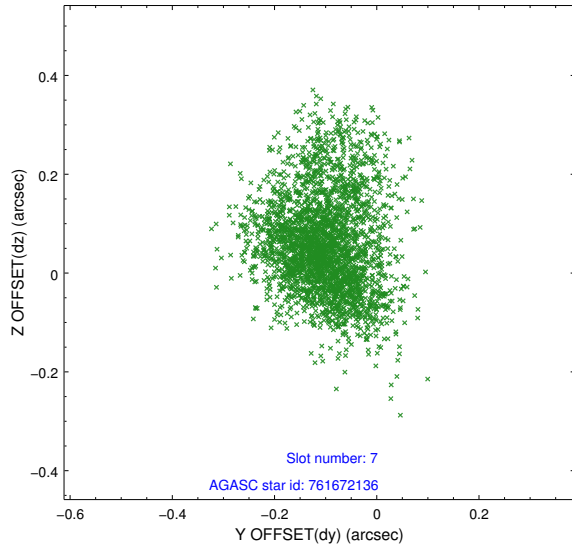
2.4.4 Slot 5



2.4.5 Slot 6

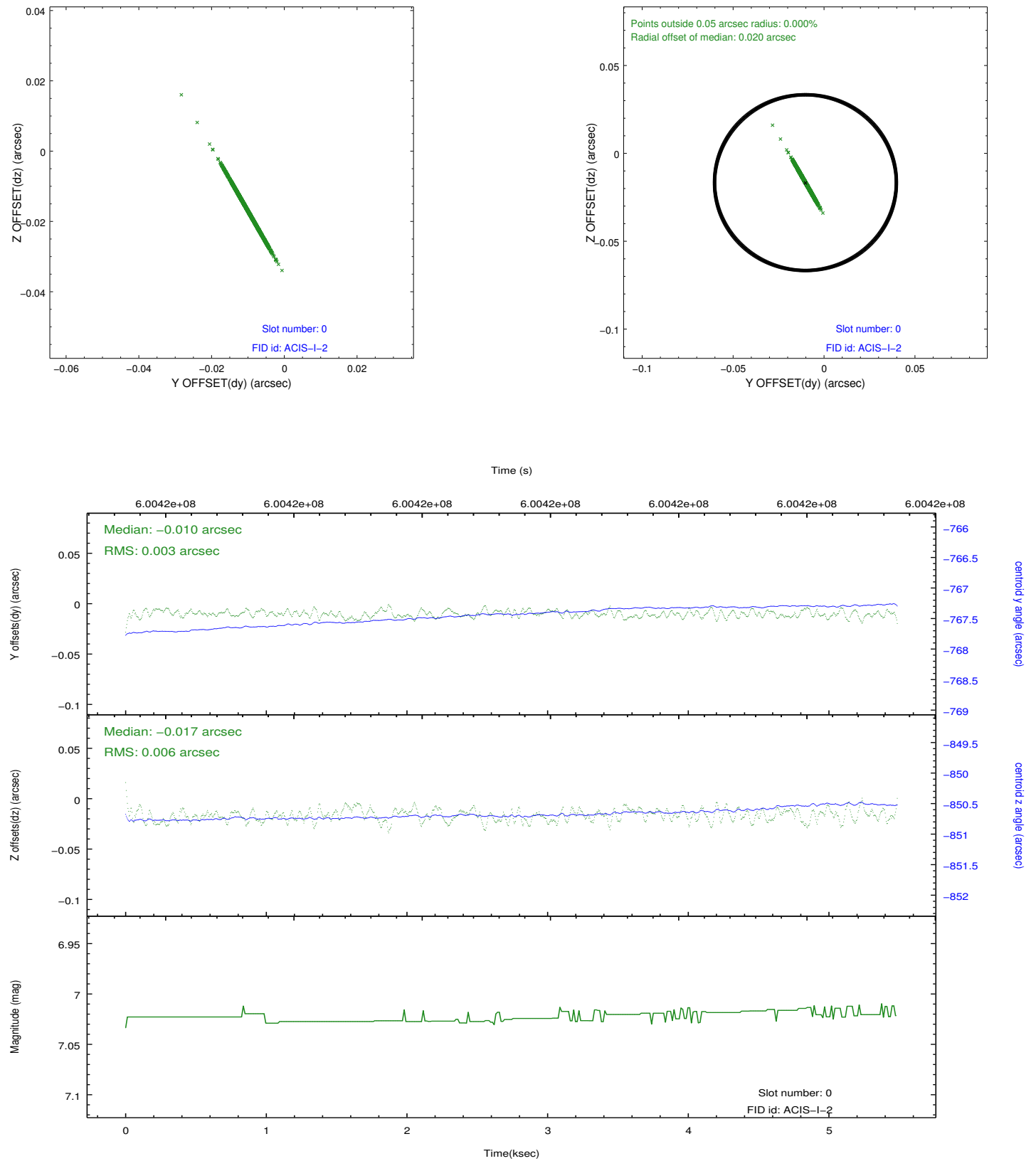


2.4.6 Slot 7

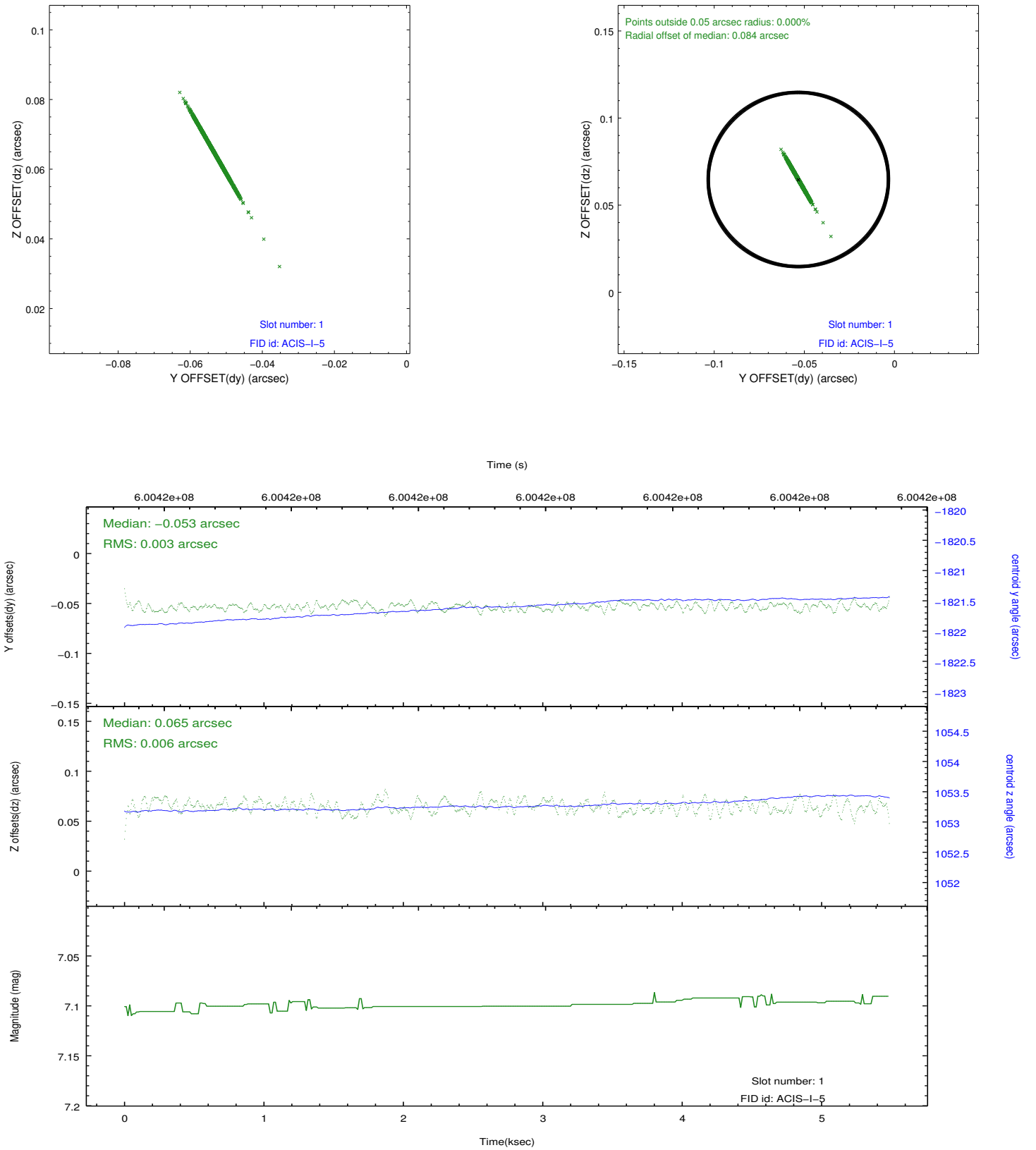


2.5 FID Slots

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	5.1360000766516

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.