

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13371 - L2 Version 2
Chandra X-Ray Center

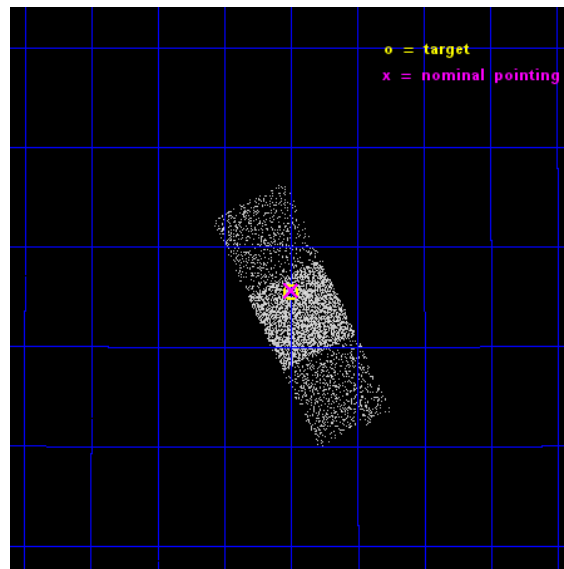
L2 Processing Date : Nov 29 2014

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 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

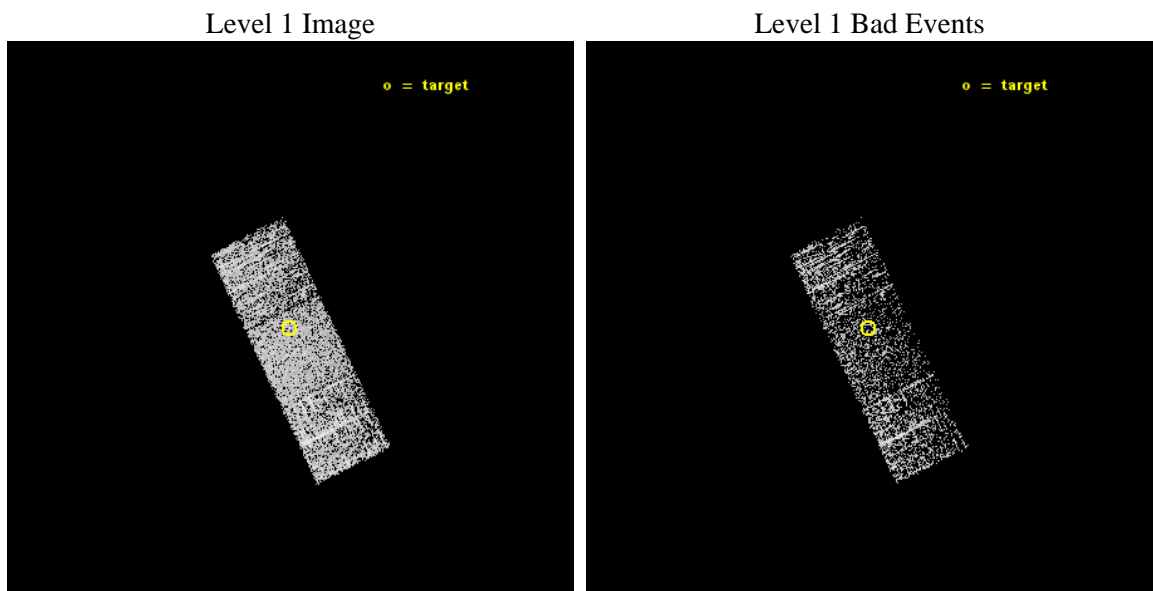
seq_num	702578	Sequence number
obs_id	13371	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1037+2135	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.37625	Observer's specified target RA [deg]
dec_targ	21.592028	Observer's specified target Dec [deg]
ra_nom	159.37428748239	Nominal RA [deg]
dec_nom	21.594334663249	Nominal Dec [deg]
roll_nom	64.037980697868	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1581.0000121593	Sum of GTIs [s]
livetime	1560.3430830852	Livetime [s]
ontime6	1581.0000121593	Sum of GTIs [s]
ontime7	1581.0000121593	Sum of GTIs [s]
ontime8	1581.0000121593	Sum of GTIs [s]
l2events	5786	Number of level 2 events



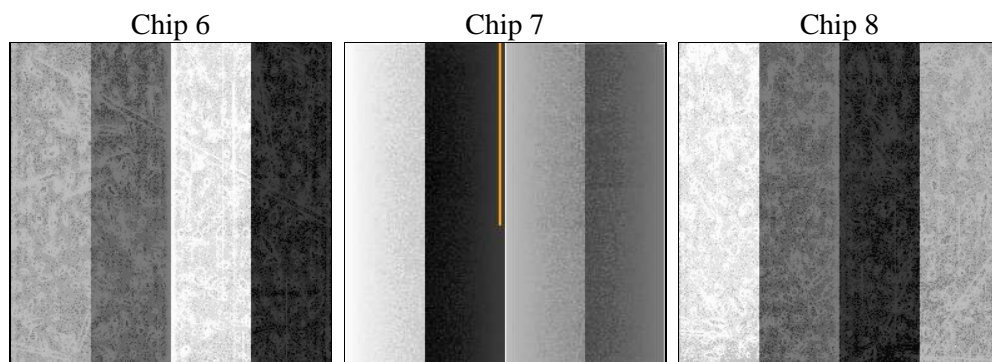
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1581.0000121593	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	1581.0000121593	Sum of GTIs [s]
date	2014-11-29T12:44:11	Date and time of file creation	ontime7	1581.0000121593	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1581.0000121593	Sum of GTIs [s]
			l1events	26225	Number of level 1 events

2.1.4 Events

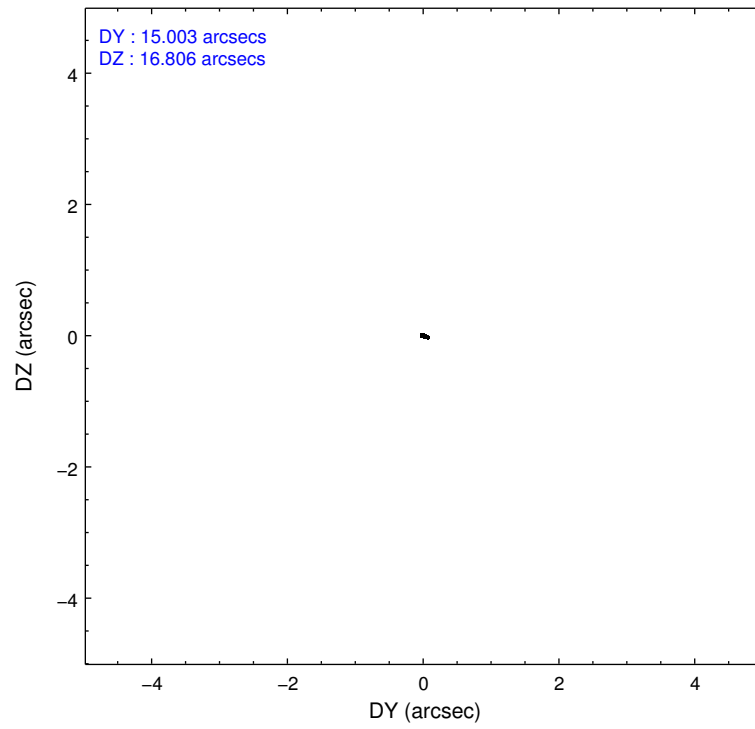
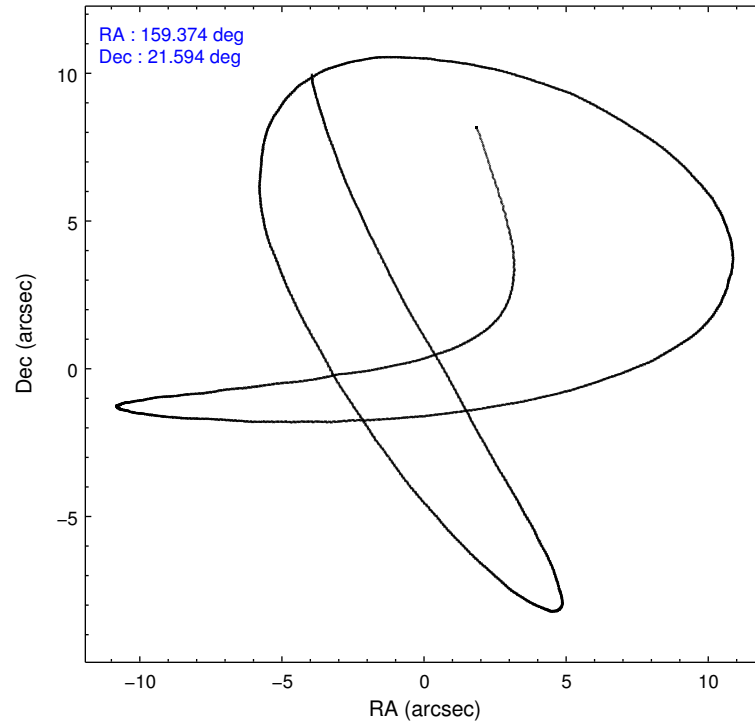
	ccd 6	ccd 7	ccd 8
level 1 events	7803	8872	9550
rejected events	6882	4650	6771
rejected %	88%	52%	70%

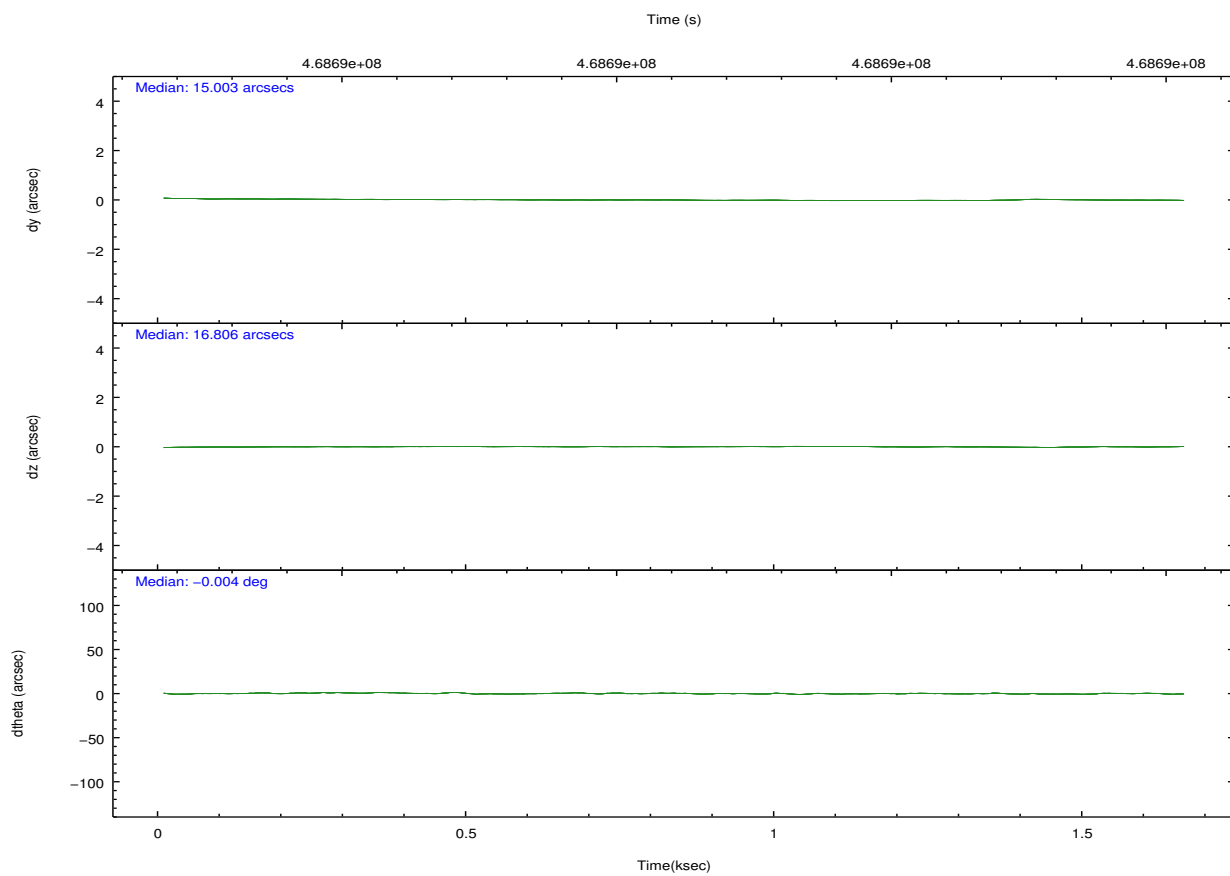
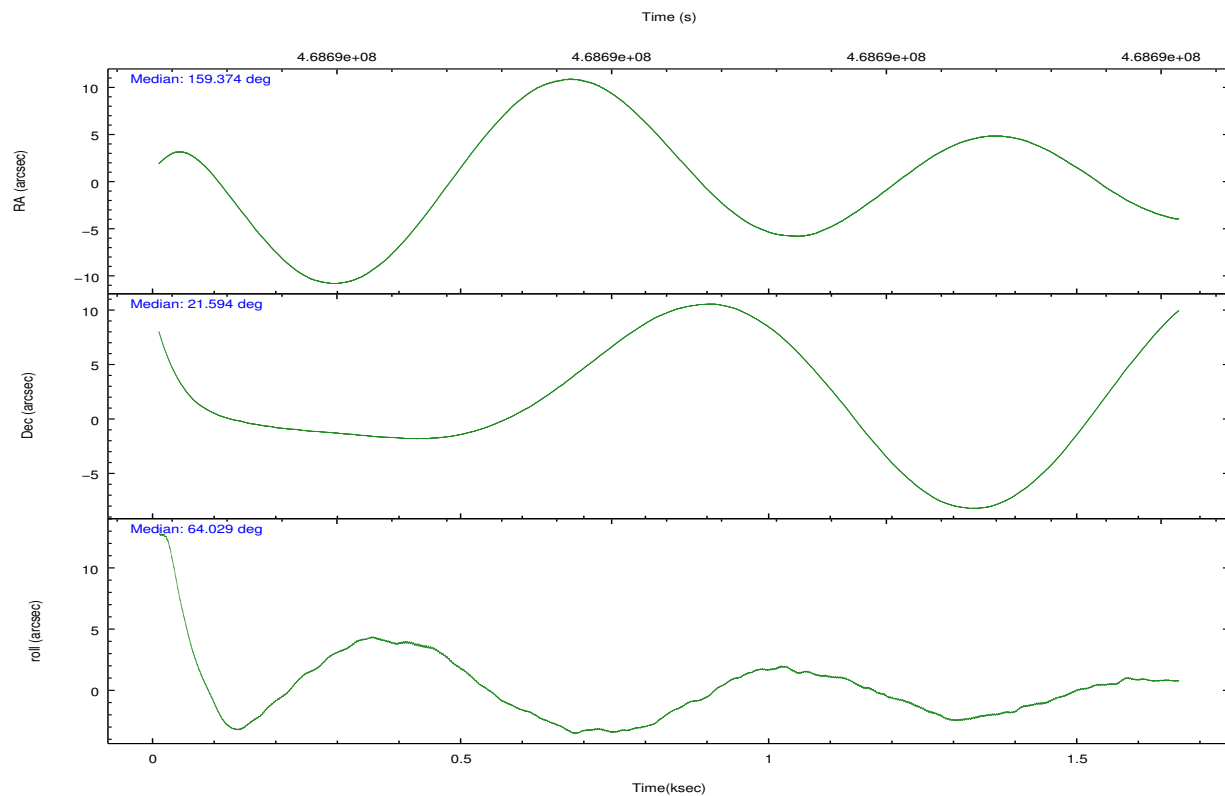
	ccd 6	ccd 7	ccd 8
grade 0 events	330	408	761
	4%	4%	7%
grade 1 events	5	17	9
	0%	0%	0%
grade 2 events	190	901	664
	2%	10%	6%
grade 3 events	98	405	264
	1%	4%	2%
grade 4 events	96	367	279
	1%	4%	2%
grade 5 events	347	935	497
	4%	10%	5%
grade 6 events	208	2147	813
	2%	24%	8%
grade 7 events	6529	3692	6263
	83%	41%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	159.377021	159.3742874823909	Subarray requested	NONE	NONE
[deg] Pointing Dec	21.567363	21.59433466324914	Alternating exposures requested	N	N
[deg] Pointing Roll	63.880247	64.03798069786787	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	468686437.184000	468685584.71337			
Observation start date	2012-11-07T14:39:30	2012-11-07T14:26:24			
[s] Observation end time (MET)	468687937.184000	468688780.15104			
Observation end date	2012-11-07T15:04:30	2012-11-07T15:19:40			
Read mode	TIMED	TIMED			

2.3 Aspect



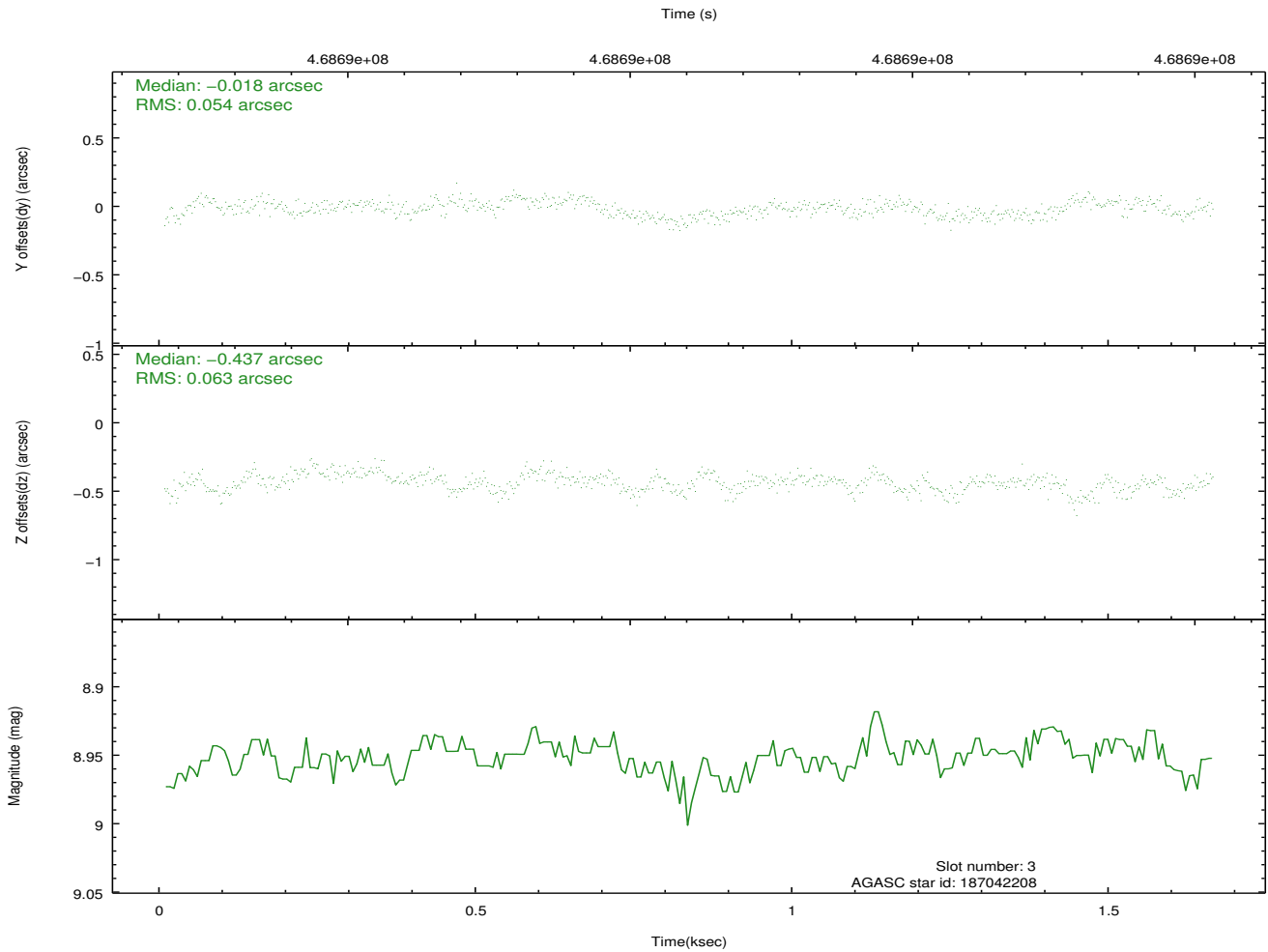
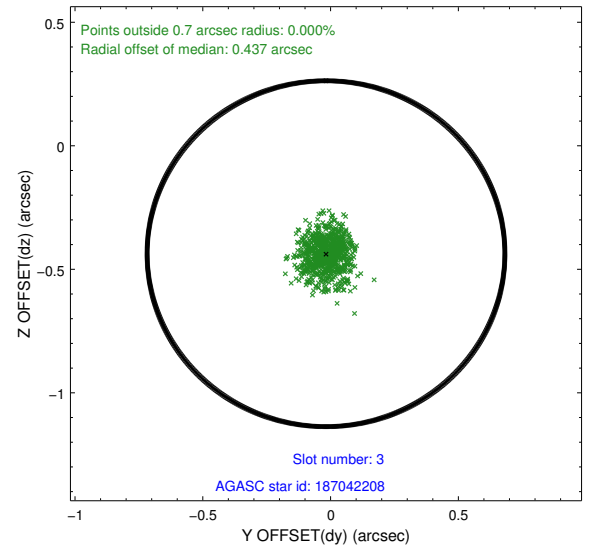
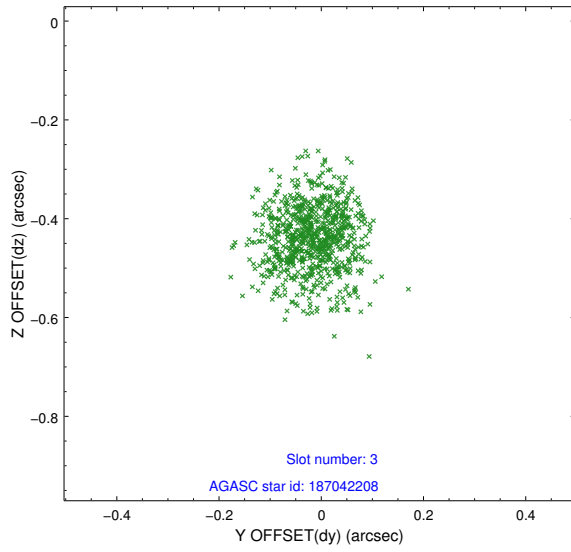


Slot Statistics

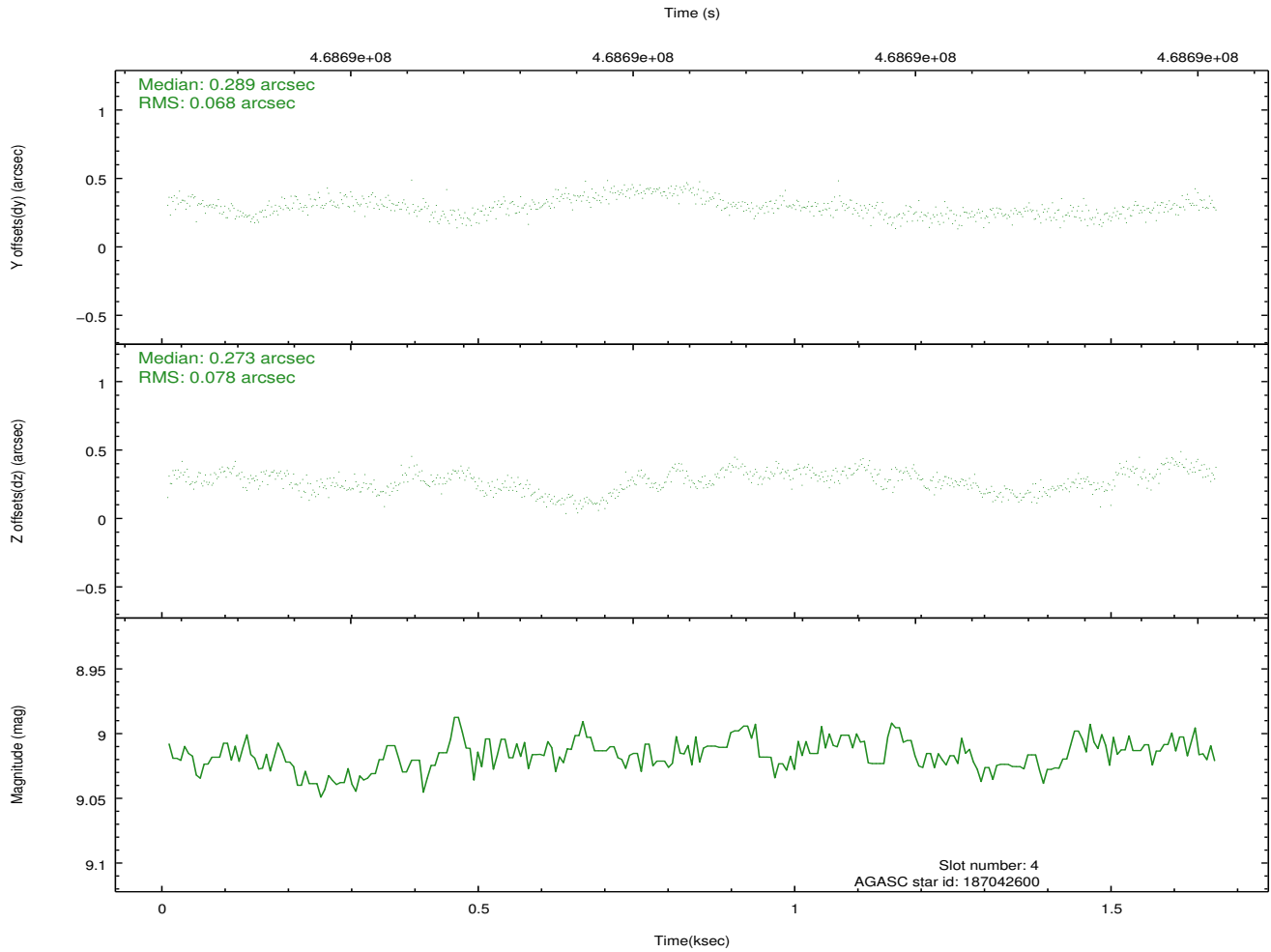
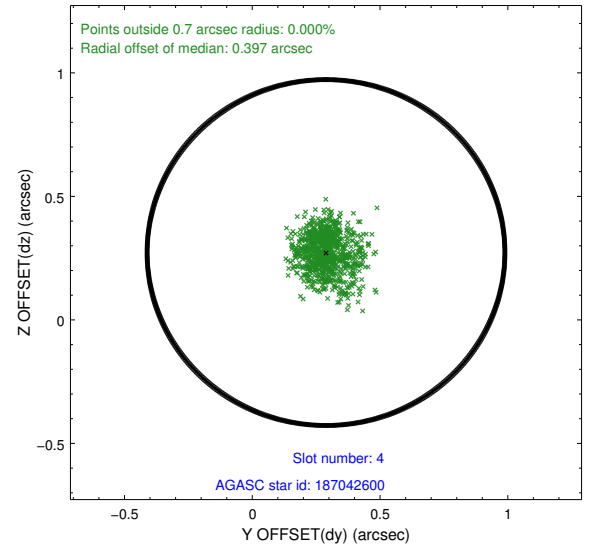
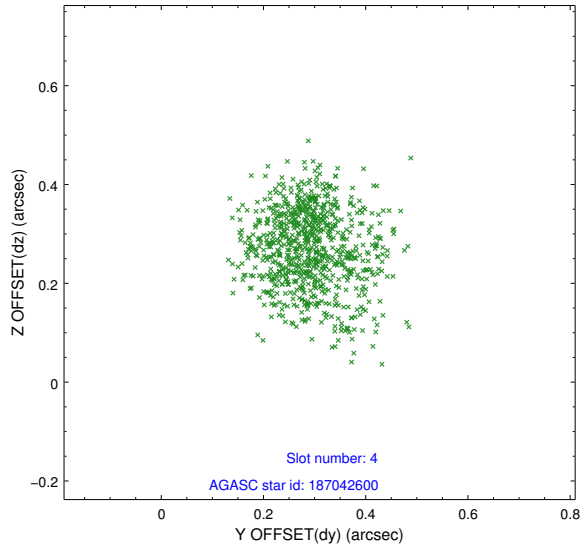
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.02	404	0.159	-0.004	0.005	0.009	0.000000	0.000000	2145.53	170.41
1	FID		ACIS-S-5	7.05	404	-0.177	-0.001	0.005	0.009	0.000000	0.000000	-1815.88	164.33
2	FID		ACIS-S-6	7.15	404	-0.010	0.018	0.006	0.009	0.000000	0.000000	389.30	808.05
3	GUIDE	used	187042208	8.95	809	-0.018	-0.437	0.087	0.146	158.716505	21.709720	-507.30	2210.29
4	GUIDE	used	187042600	9.02	807	0.289	0.273	0.112	0.175	159.242652	20.947900	-2200.03	-573.39
5	GUIDE	used	187044056	8.45	809	-0.043	0.150	0.140	0.186	159.822887	21.599414	759.12	-1288.14
6	GUIDE	used	187046328	7.95	809	0.081	-0.220	0.065	0.113	158.822252	21.378816	-1424.33	1371.19
7	GUIDE	used	187959384	8.10	807	-0.302	0.224	0.080	0.129	160.077864	21.819140	1849.52	-1699.70

2.4 Star Slots

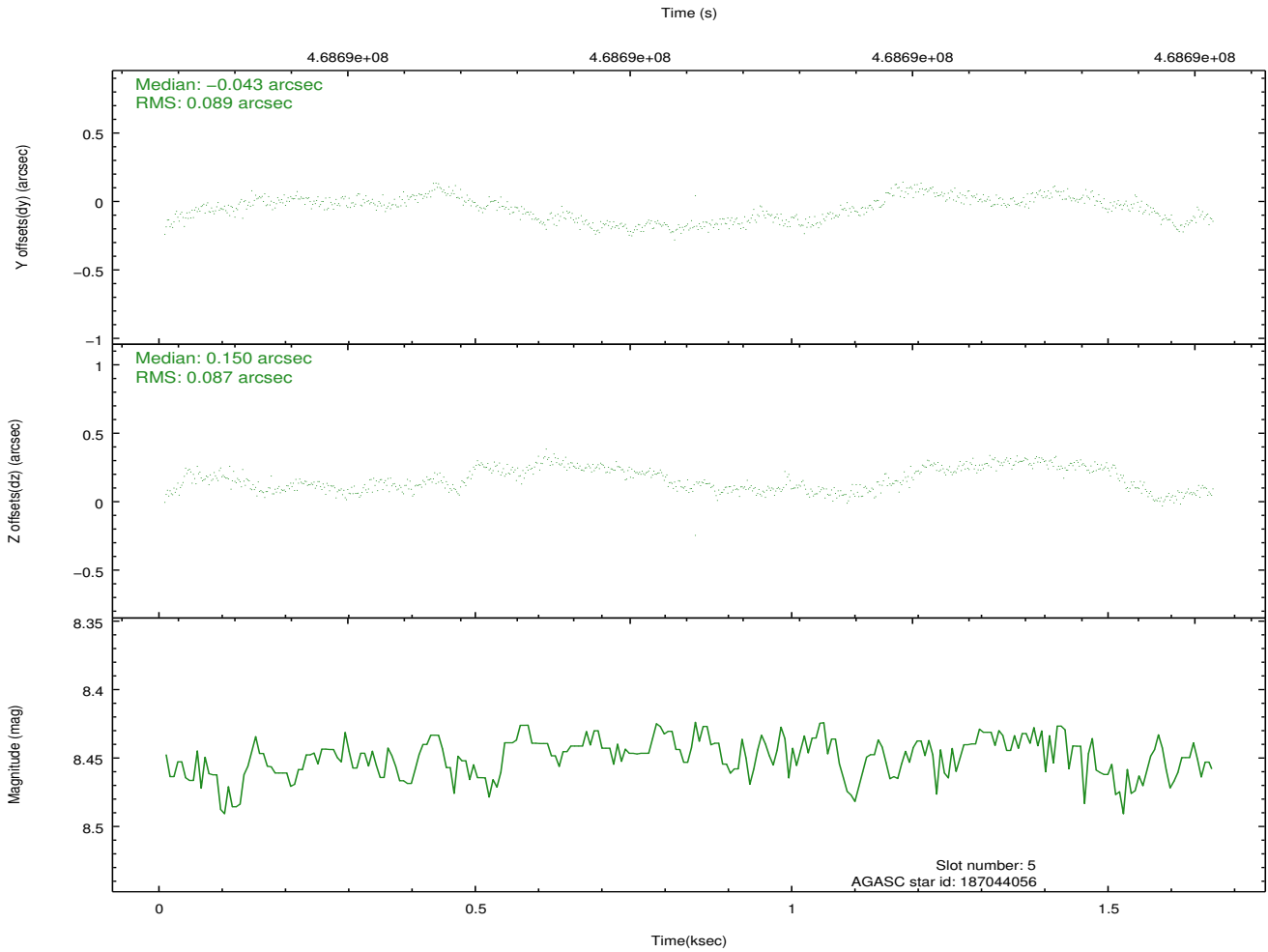
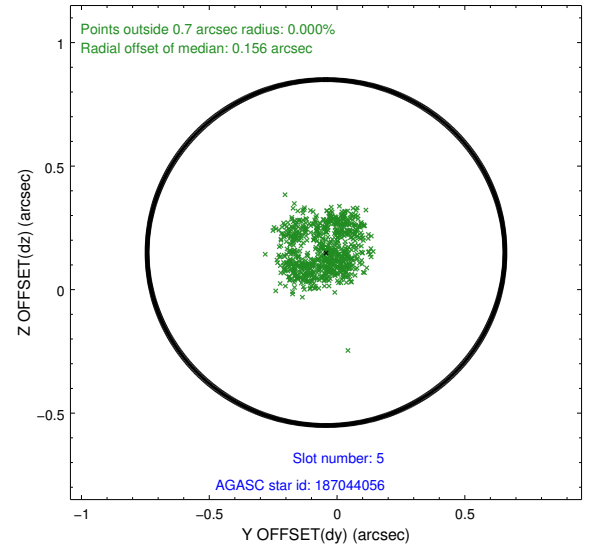
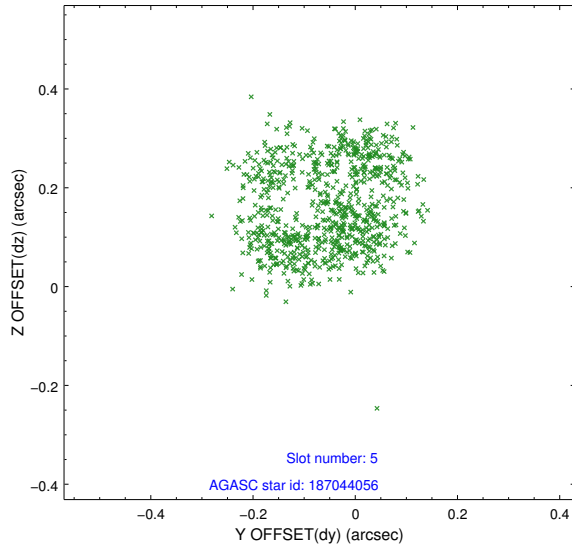
2.4.1 Slot 3



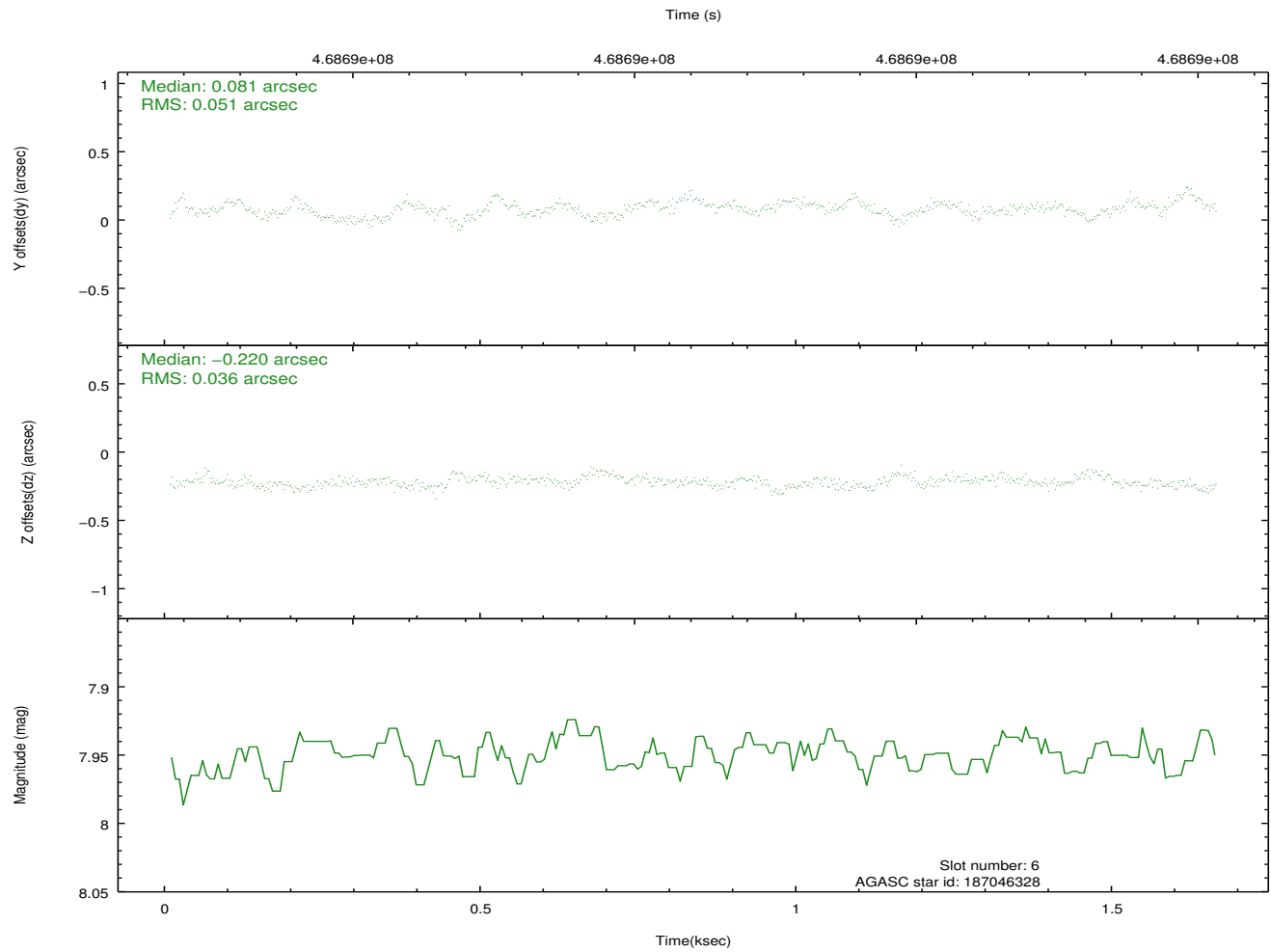
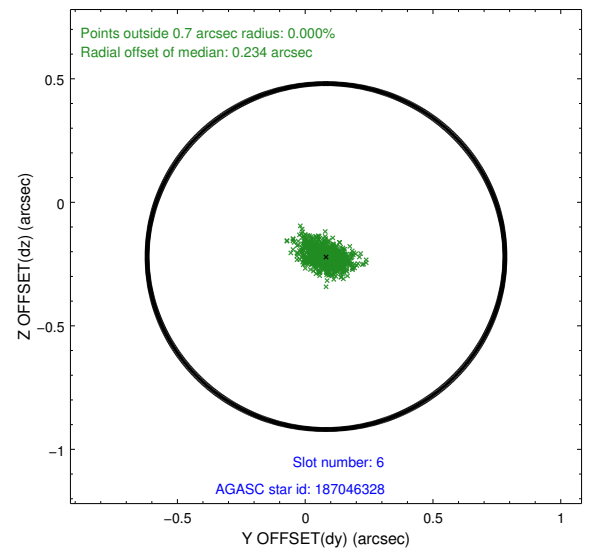
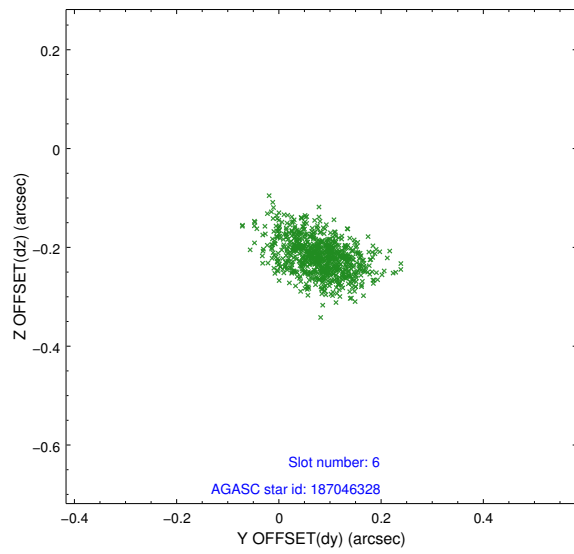
2.4.2 Slot 4



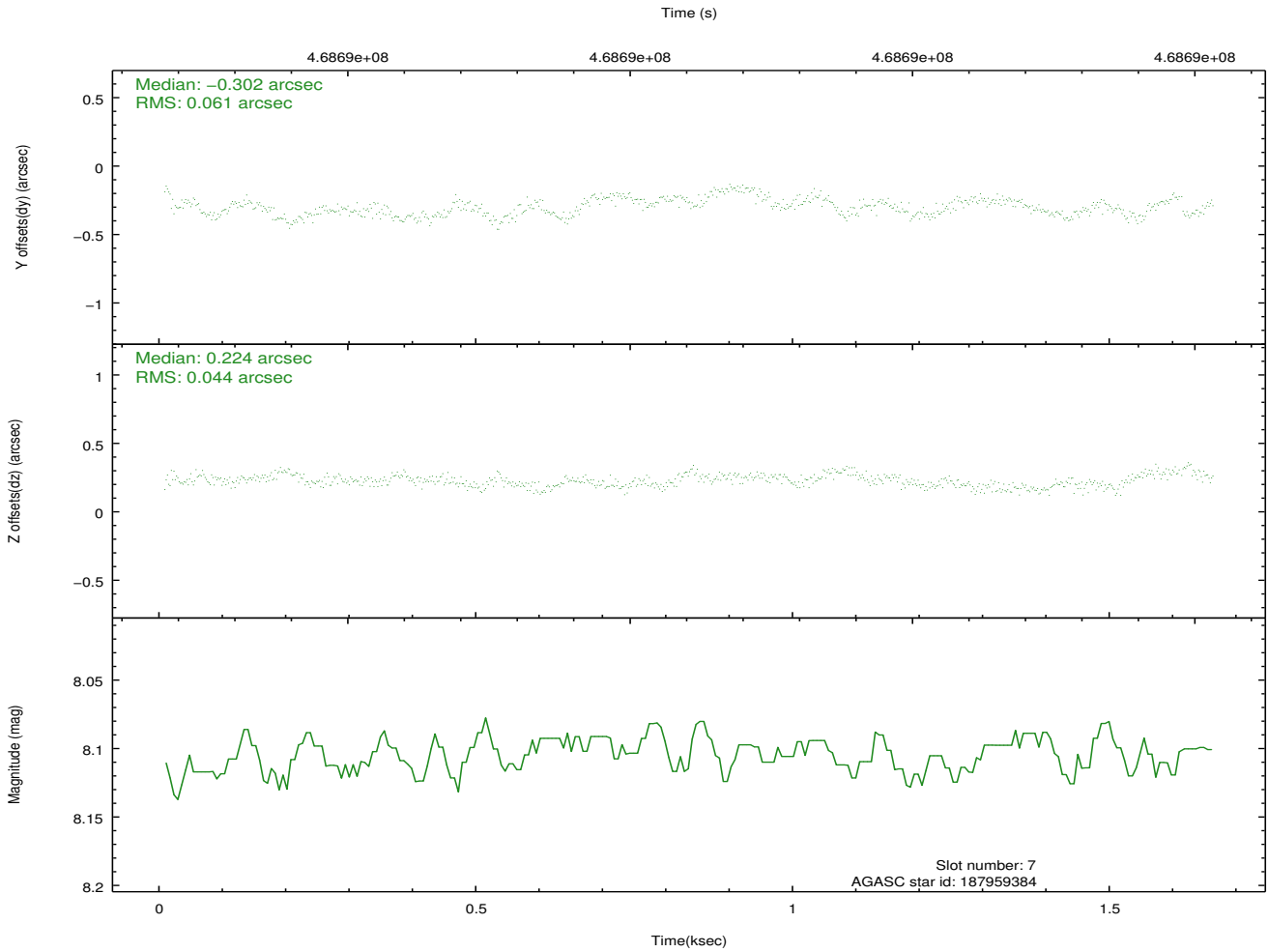
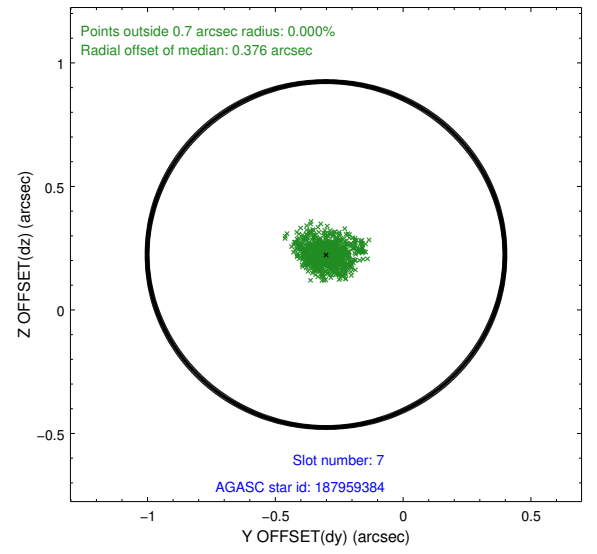
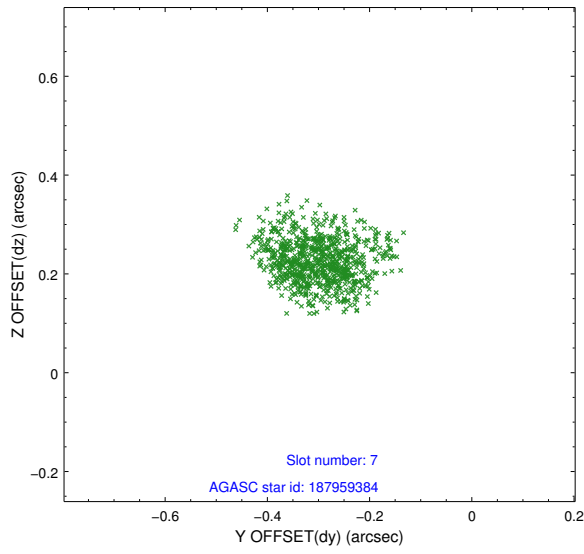
2.4.3 Slot 5



2.4.4 Slot 6

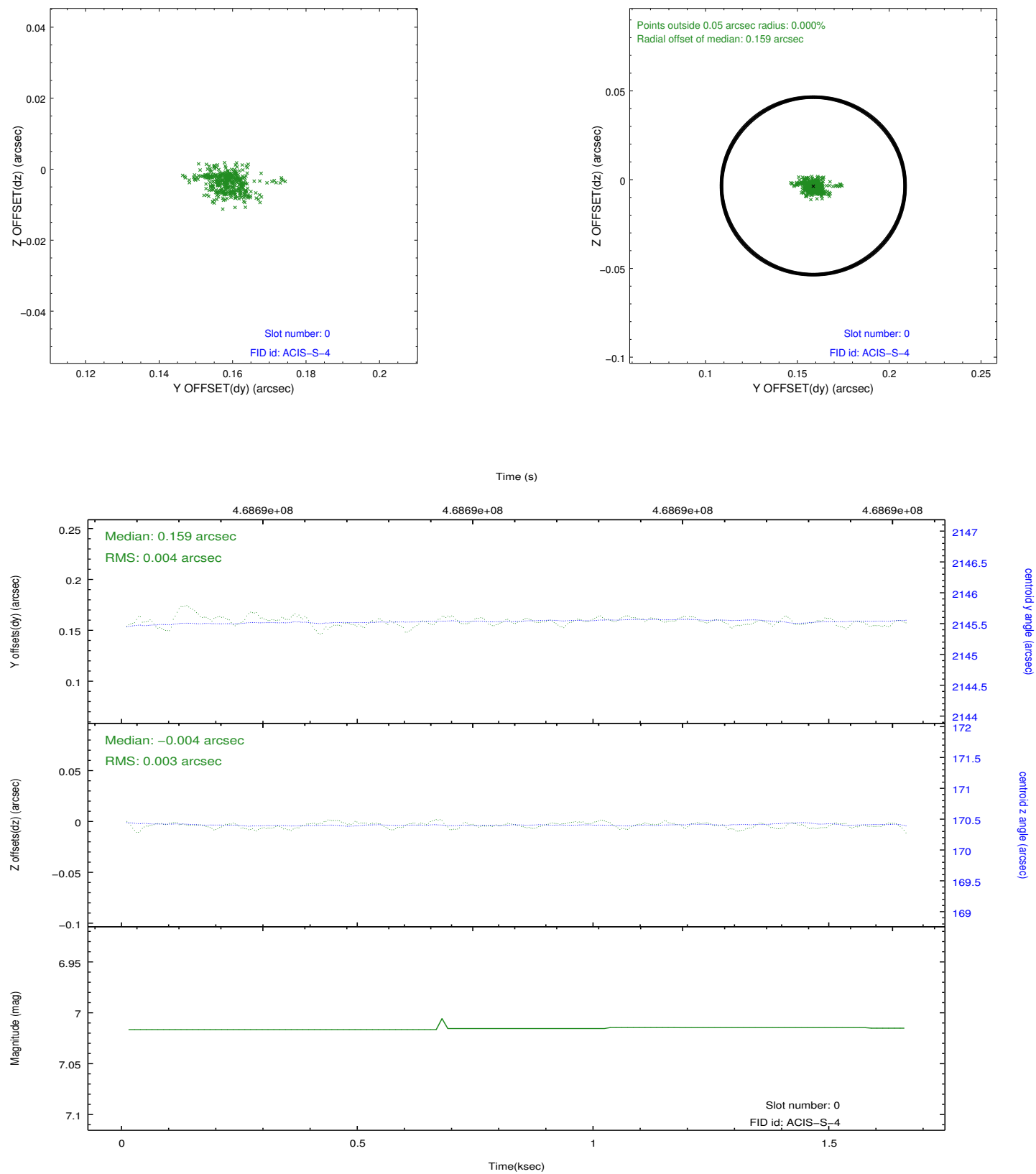


2.4.5 Slot 7

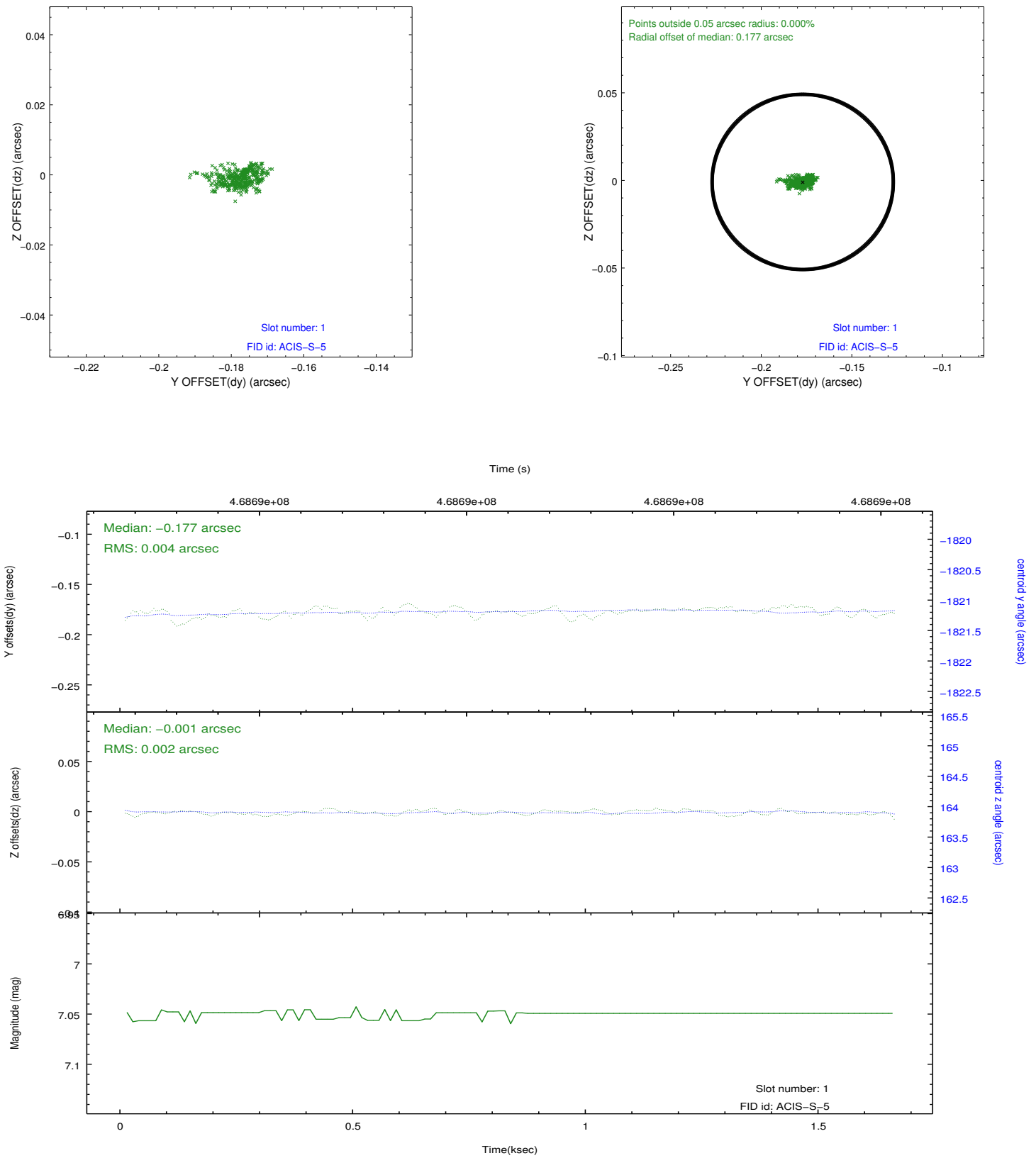


2.5 FID Slots

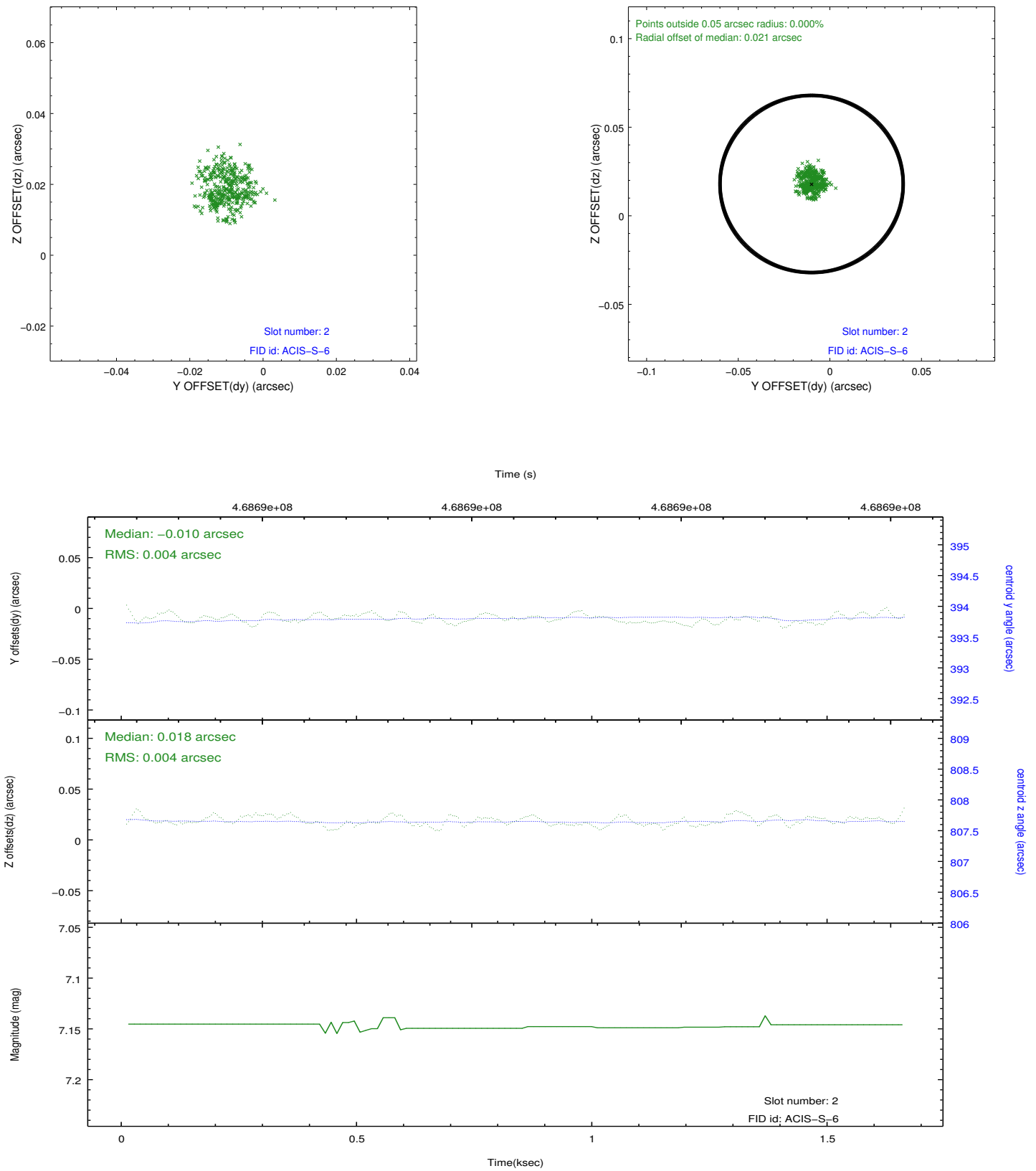
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5810000121593

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.