

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8103 - L2 Version 3
Chandra X-Ray Center

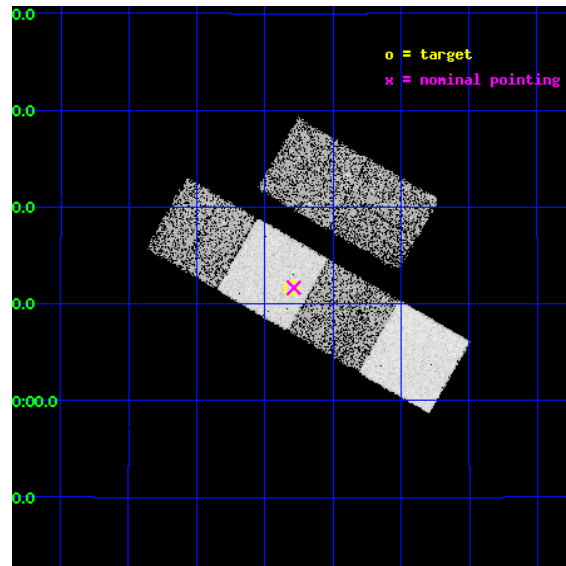
L2 Processing Date : Apr 23 2012

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1 Front

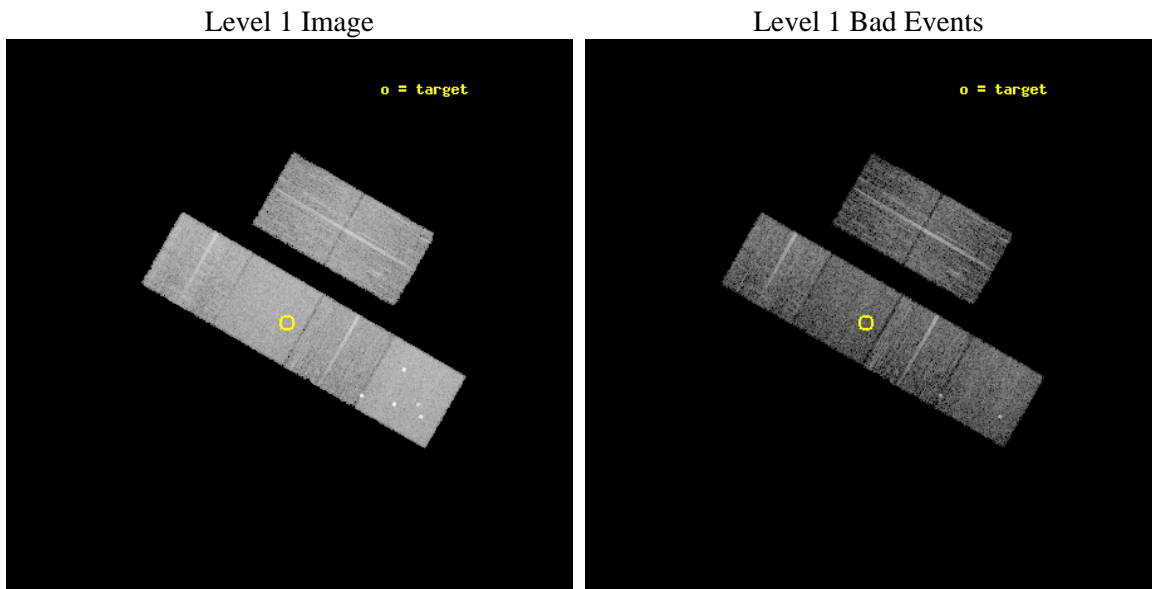
seq_num	900644	Sequence number
obs_id	8103	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	751	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.20125	Observer's specified target RA [deg]
dec_targ	18.195	Observer's specified target Dec [deg]
ra_nom	186.19673996425	Nominal RA [deg]
dec_nom	18.194359110939	Nominal Dec [deg]
roll_nom	209.86206424107	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5151.9999808669	Sum of GTIs [s]
livetime	5086.7622549472	Livetime [s]
ontime2	5151.9999808669	Sum of GTIs [s]
ontime3	5151.9999808669	Sum of GTIs [s]
ontime5	5151.9999808669	Sum of GTIs [s]
ontime6	5151.9999808669	Sum of GTIs [s]
ontime7	5151.9999808669	Sum of GTIs [s]
ontime8	5148.7589805722	Sum of GTIs [s]
l2events	79687	Number of level 2 events



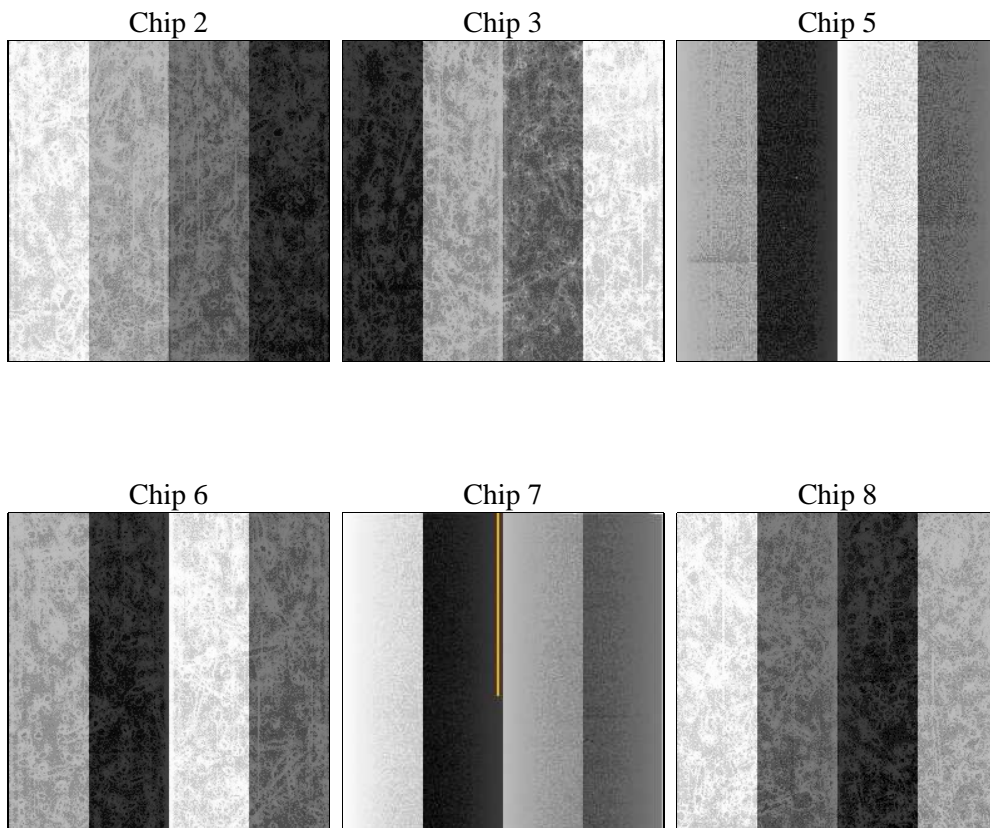
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5151.9999808669	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5151.9999808669	Sum of GTIs [s]
date	2012-04-23T08:55:29	Date and time of file creation	ontime3	5151.9999808669	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5151.9999808669	Sum of GTIs [s]
			ontime6	5151.9999808669	Sum of GTIs [s]
			ontime7	5151.9999808669	Sum of GTIs [s]
			ontime8	5148.7589805722	Sum of GTIs [s]
			l1events	354341	Number of level 1 events

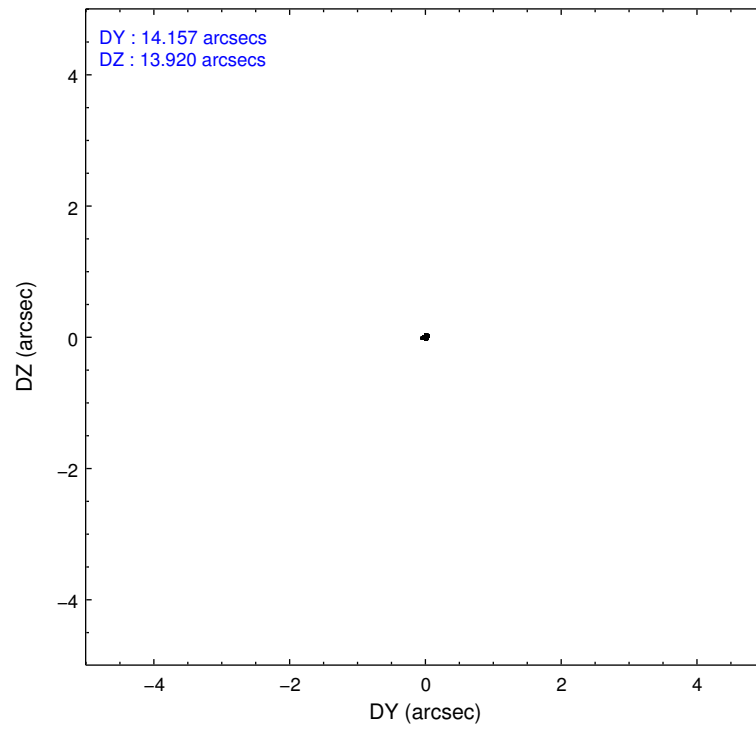
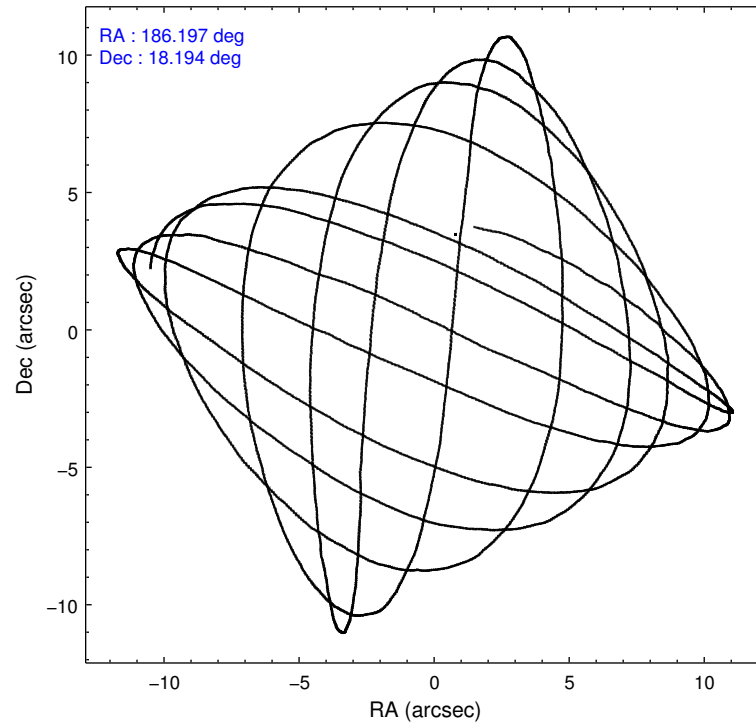
2.1.4 Events

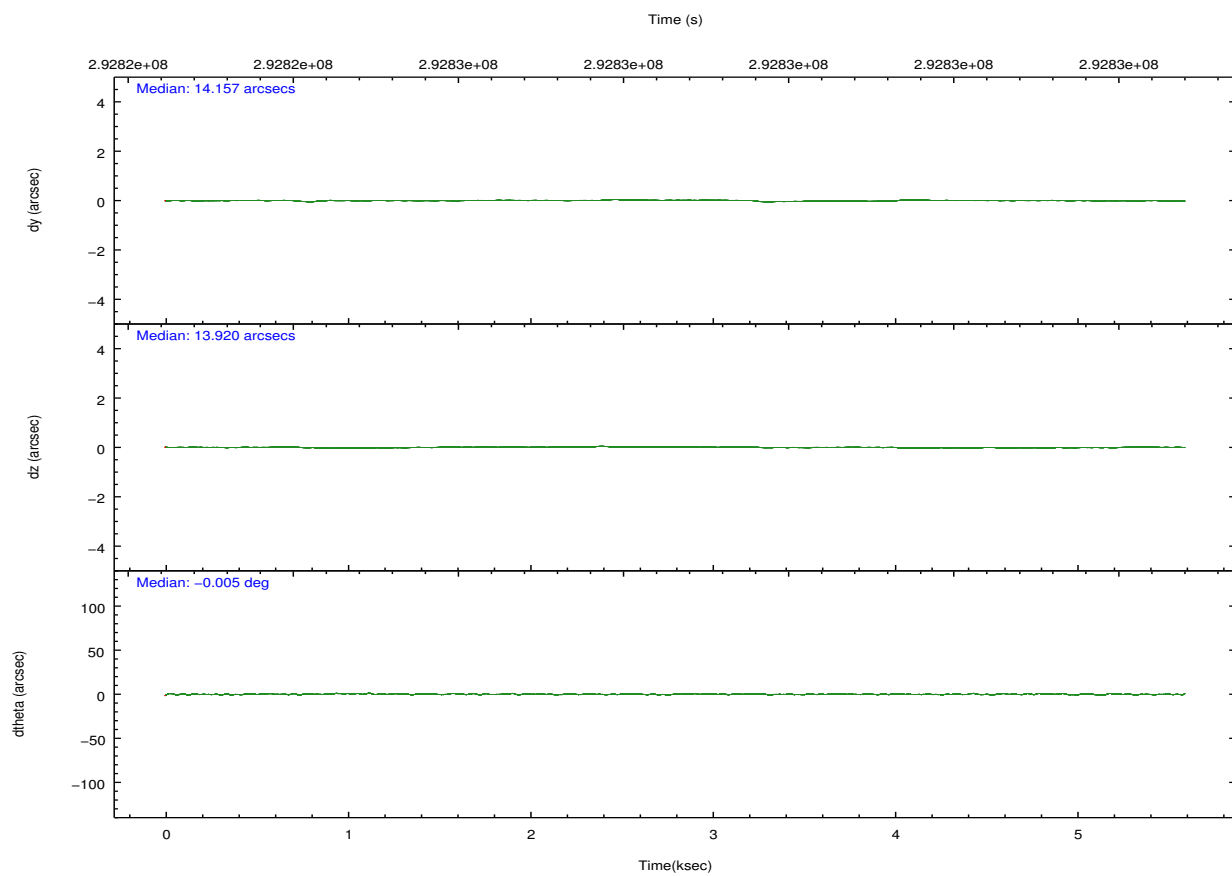
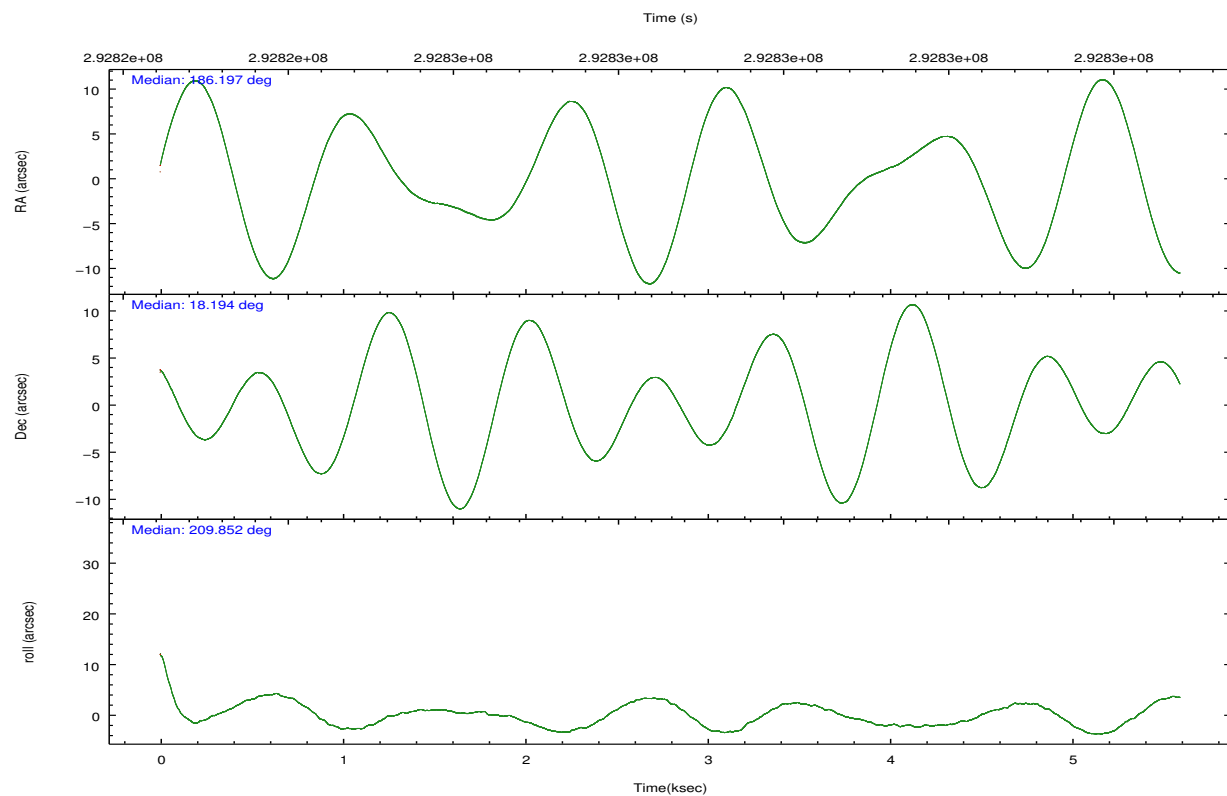
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49772	45599	78428	49043	66735	64764	grade 0 events	2321	2497	5794	2213	2470	4138
rejected events	44182	39887	41026	43354	38711	51311		4%	5%	7%	4%	3%	6%
rejected %	88%	87%	52%	88%	58%	79%	grade 1 events	38	34	173	28	64	56
								0%	0%	0%	0%	0%	0%
							grade 2 events	1208	1068	10620	1289	5693	3206
								2%	2%	13%	2%	8%	4%
							grade 3 events	567	581	1348	527	2375	1283
								1%	1%	1%	1%	3%	1%
							grade 4 events	544	572	1286	527	2391	1266
								1%	1%	1%	1%	3%	1%
							grade 5 events	2007	2199	5471	2305	6326	2991
								4%	4%	6%	4%	9%	4%
							grade 6 events	961	1000	18406	1135	15119	3570
								1%	2%	23%	2%	22%	5%
							grade 7 events	42126	37648	35330	41019	32297	48254
								84%	82%	45%	83%	48%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	186.210755	186.1967399642489	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.218189	18.19435911093868	Alternating exposures requested	N	N
[deg] Pointing Roll	209.701049	209.8620642410706	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	292824699.184000	292824116.72447			
Observation start date	2007-04-13T04:10:34	2007-04-13T04:01:56			
[s] Observation end time (MET)	292830099.184000	292830486.58727			
Observation end date	2007-04-13T05:40:34	2007-04-13T05:48:06			
Read mode	TIMED	TIMED			

2.3 Aspect



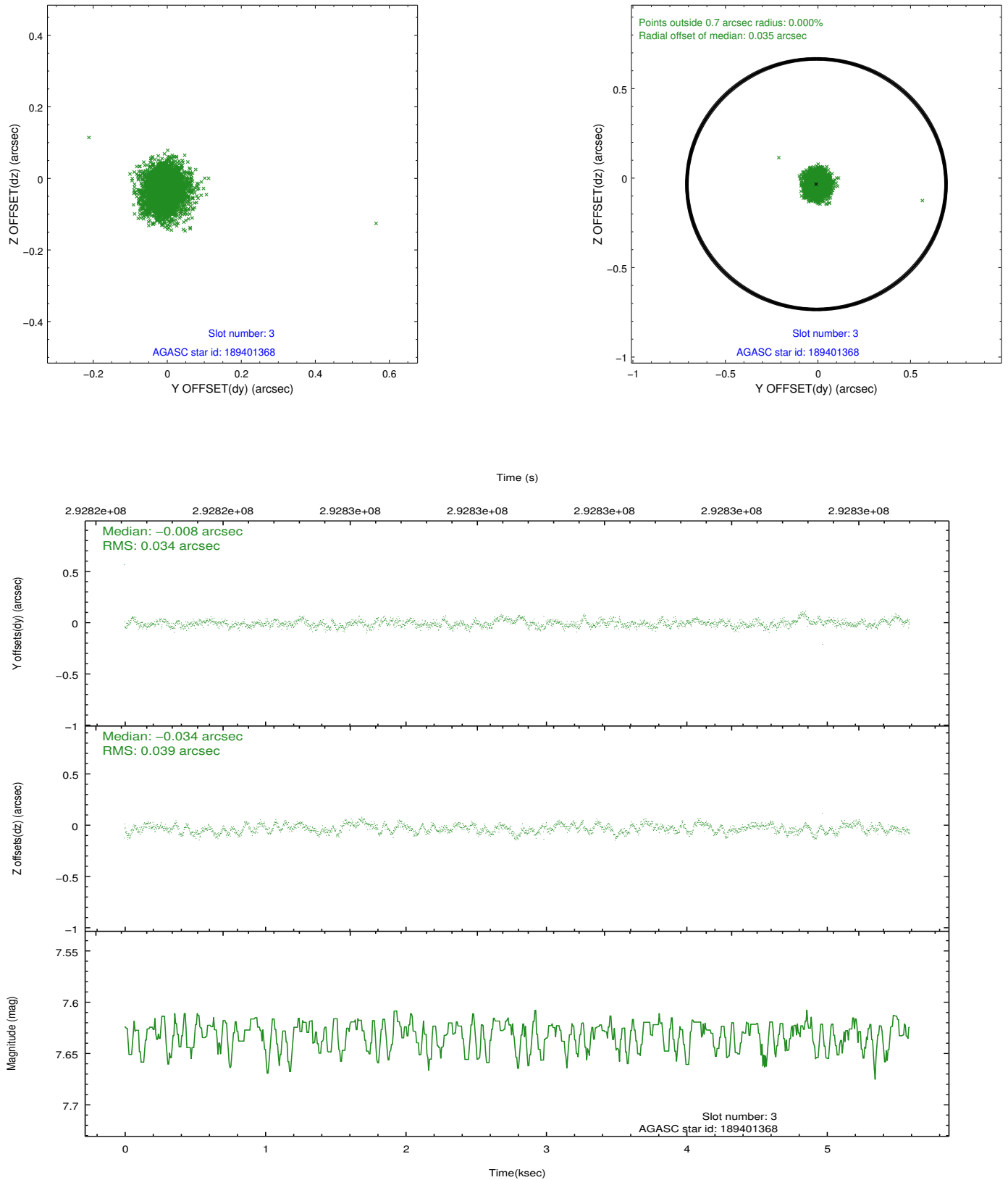


Slot Statistics

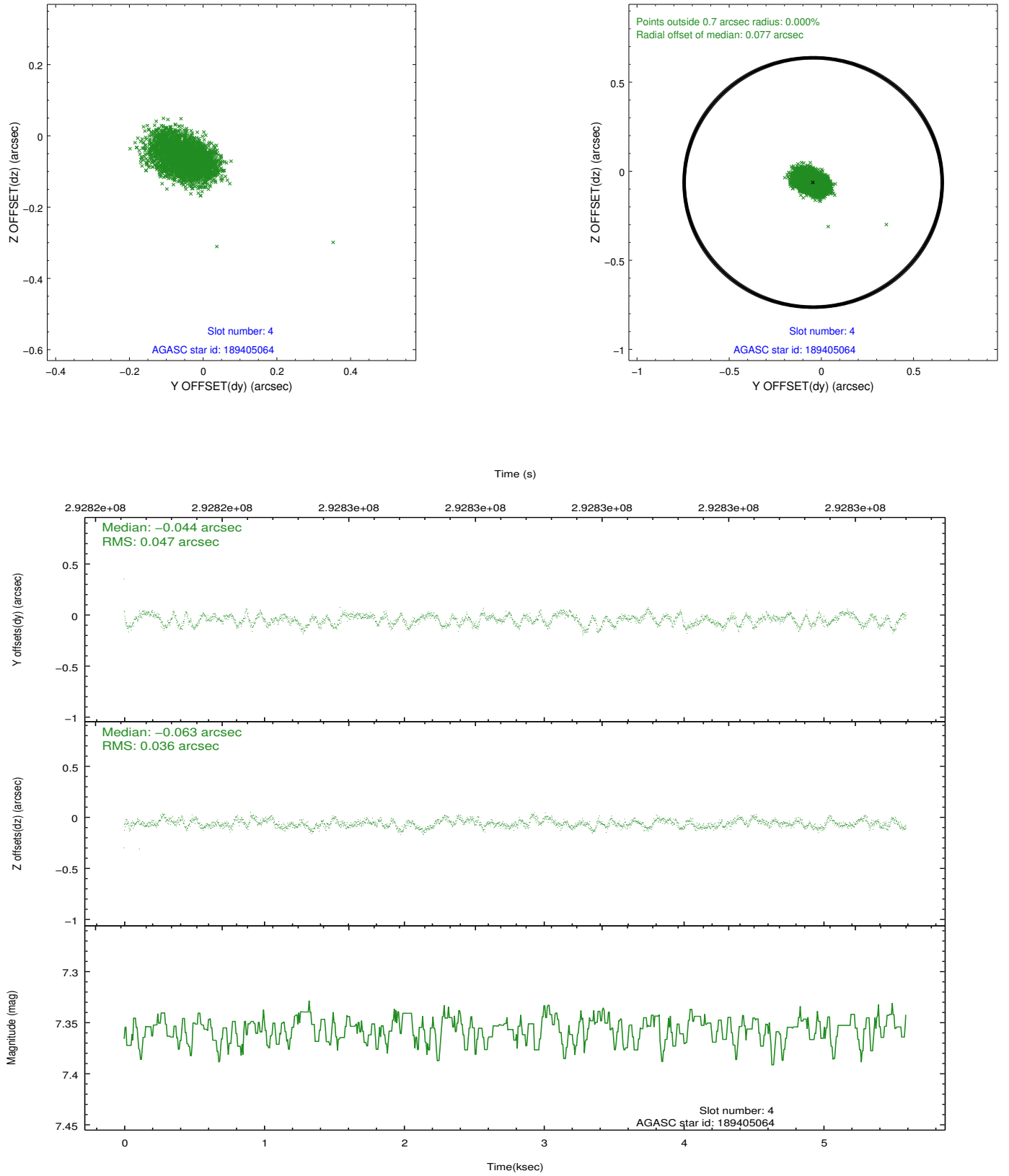
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1365	0.043	-0.016	0.007	0.011	0.000000	0.000000	928.96	-1730.87
1	FID	ACIS-S-4	7.19	1365	0.158	-0.005	0.006	0.010	0.000000	0.000000	2147.09	172.18
2	FID	ACIS-S-5	7.22	1365	-0.228	0.034	0.006	0.011	0.000000	0.000000	-1818.80	167.06
3	GUIDE	189401368	7.63	2729	-0.008	-0.034	0.054	0.085	186.150770	18.668355	-624.41	-1509.15
4	GUIDE	189405064	7.36	2729	-0.044	-0.063	0.063	0.100	186.887888	17.834342	-1332.95	2345.66
5	GUIDE	189411056	8.69	2729	0.050	0.034	0.079	0.128	186.168211	17.852769	778.67	1072.27
6	GUIDE	189412720	9.63	2729	0.146	-0.063	0.115	0.186	185.563060	18.600040	1238.03	-2291.83
7	GUIDE	189665040	8.42	2728	-0.138	0.123	0.075	0.120	186.390146	18.867028	-1686.93	-1727.25

2.4 Star Slots

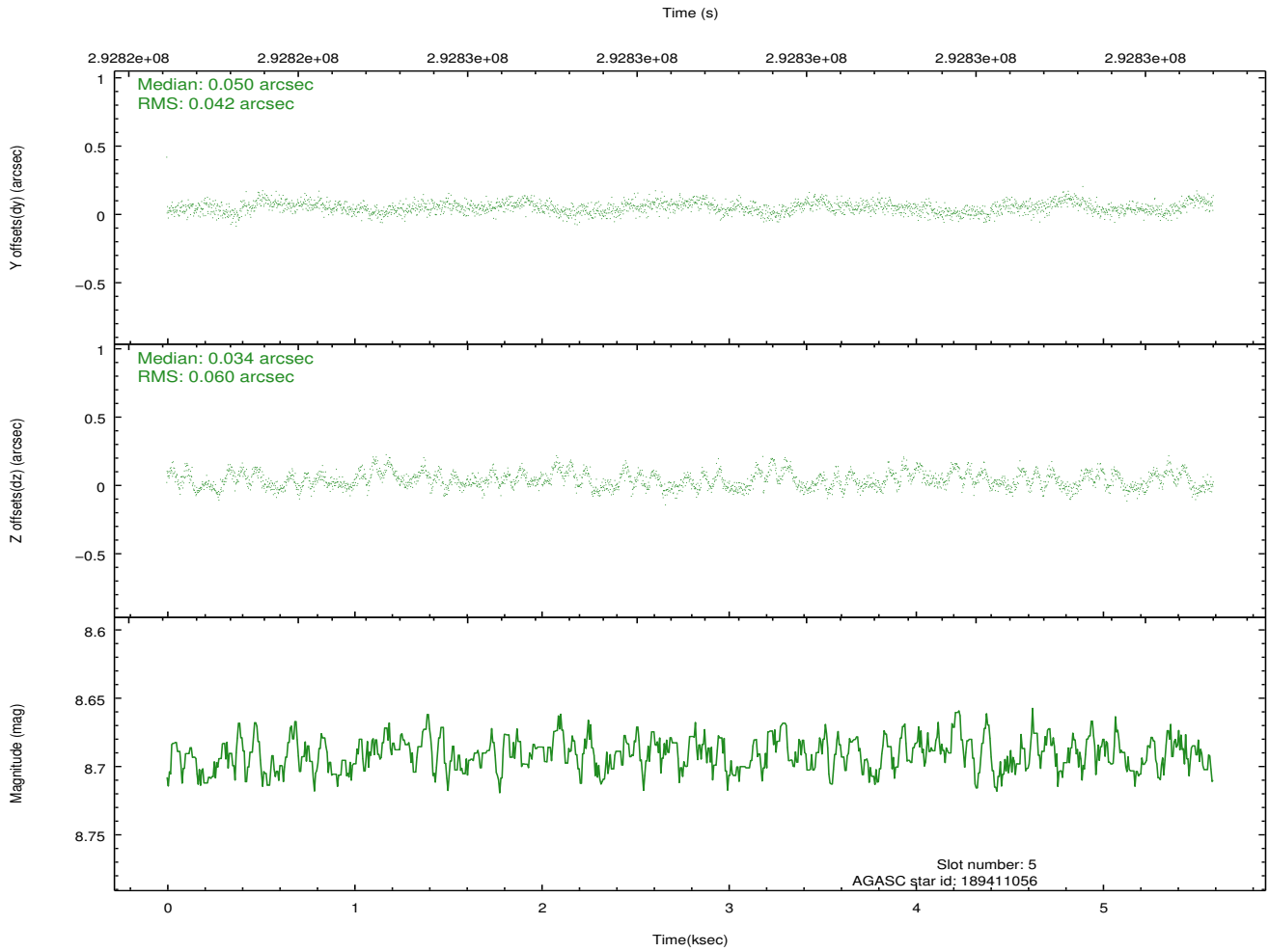
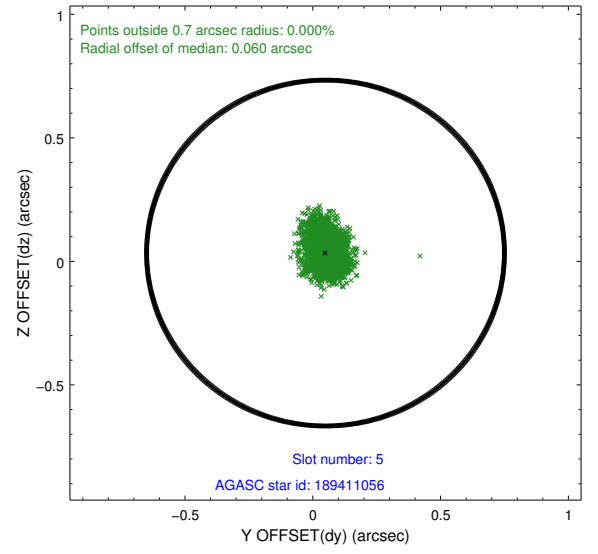
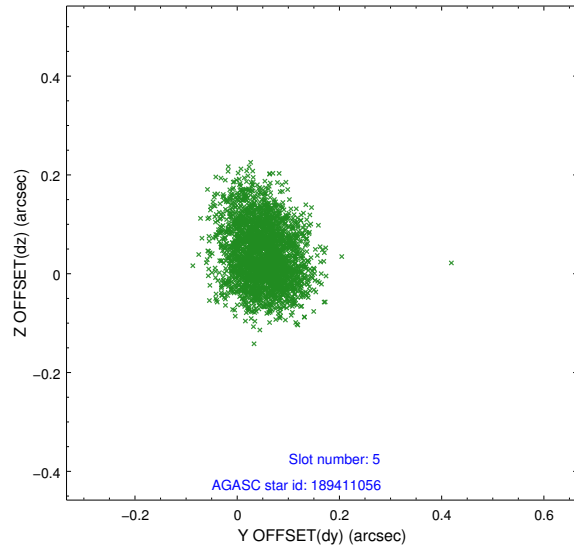
2.4.1 Slot 3



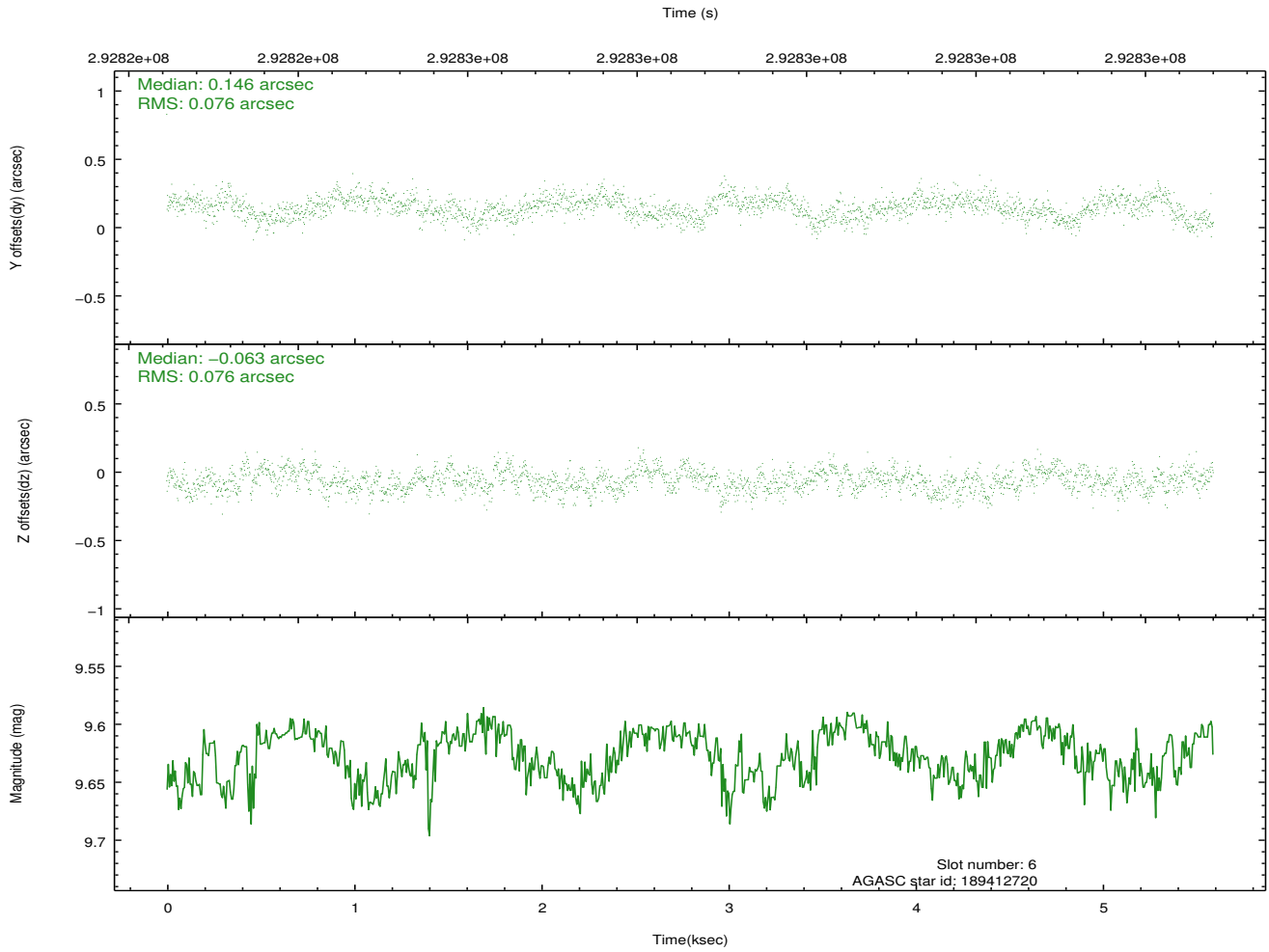
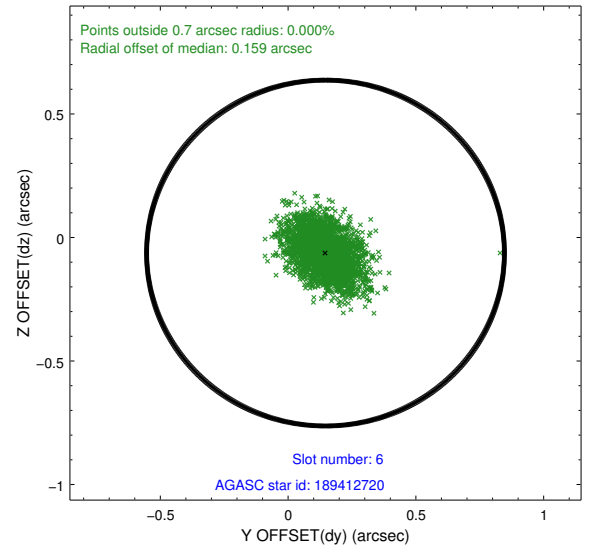
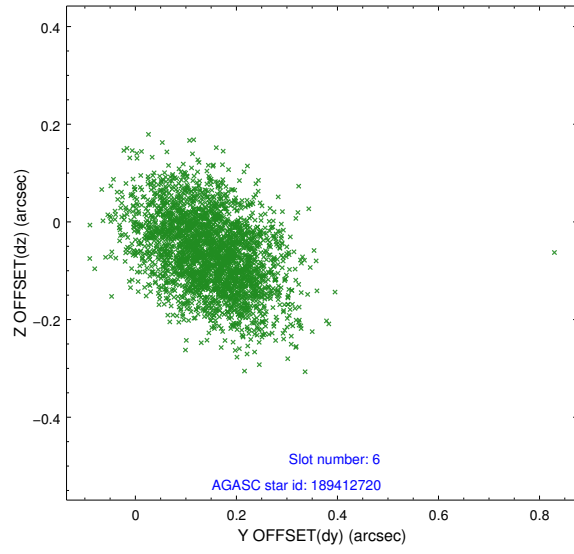
2.4.2 Slot 4



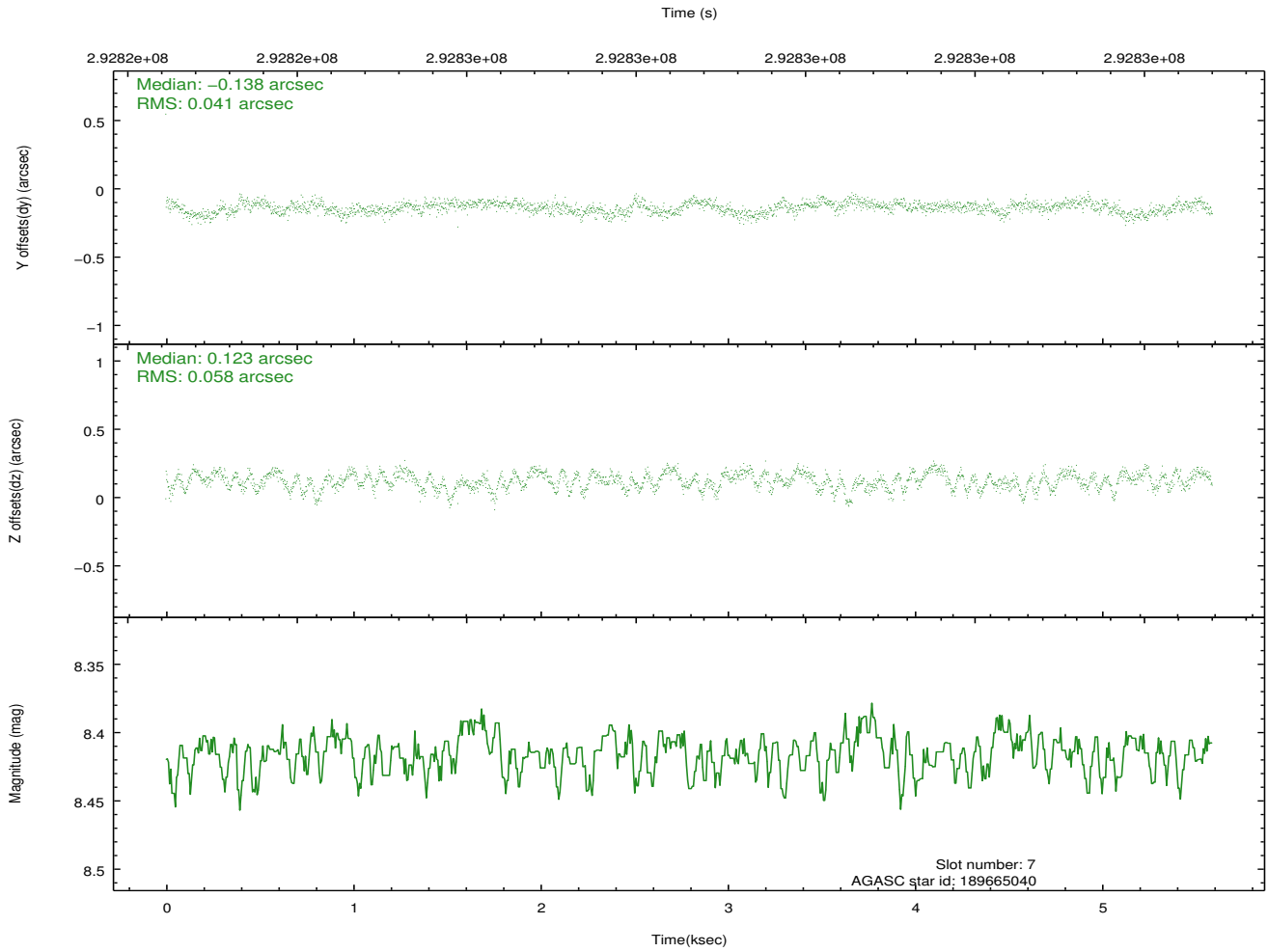
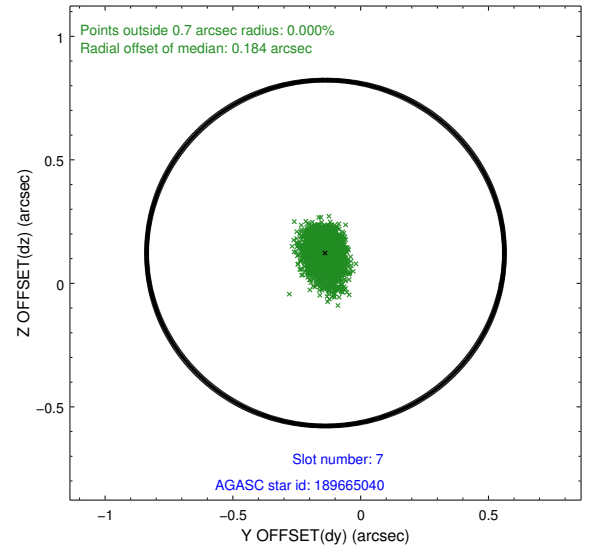
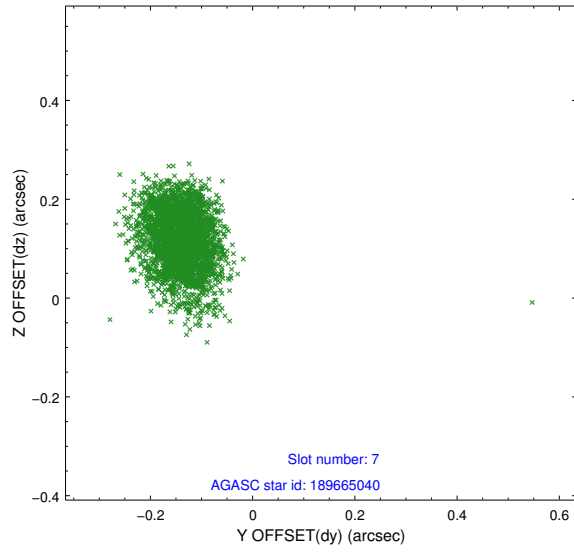
2.4.3 Slot 5



2.4.4 Slot 6

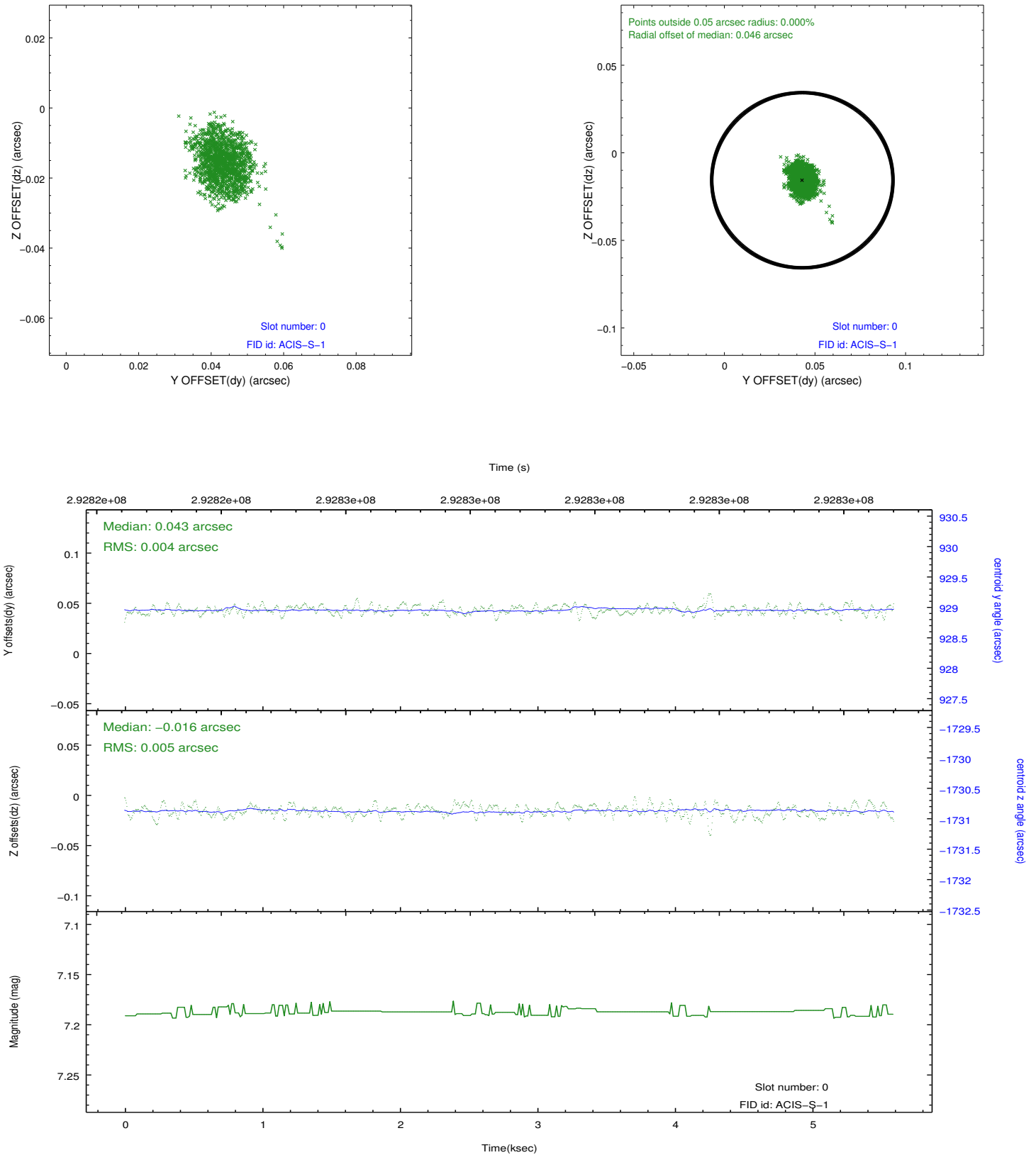


2.4.5 Slot 7

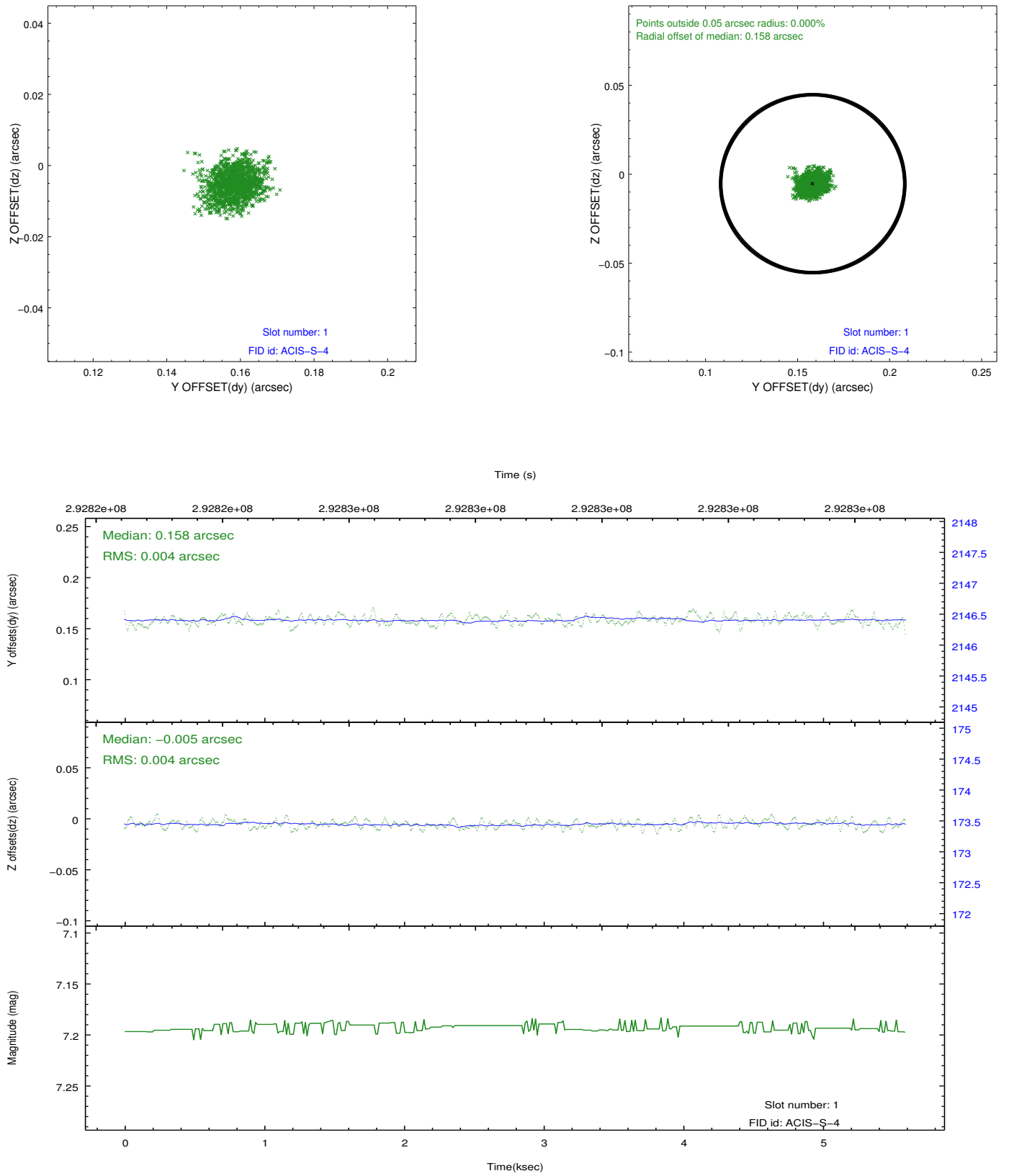


2.5 FID Slots

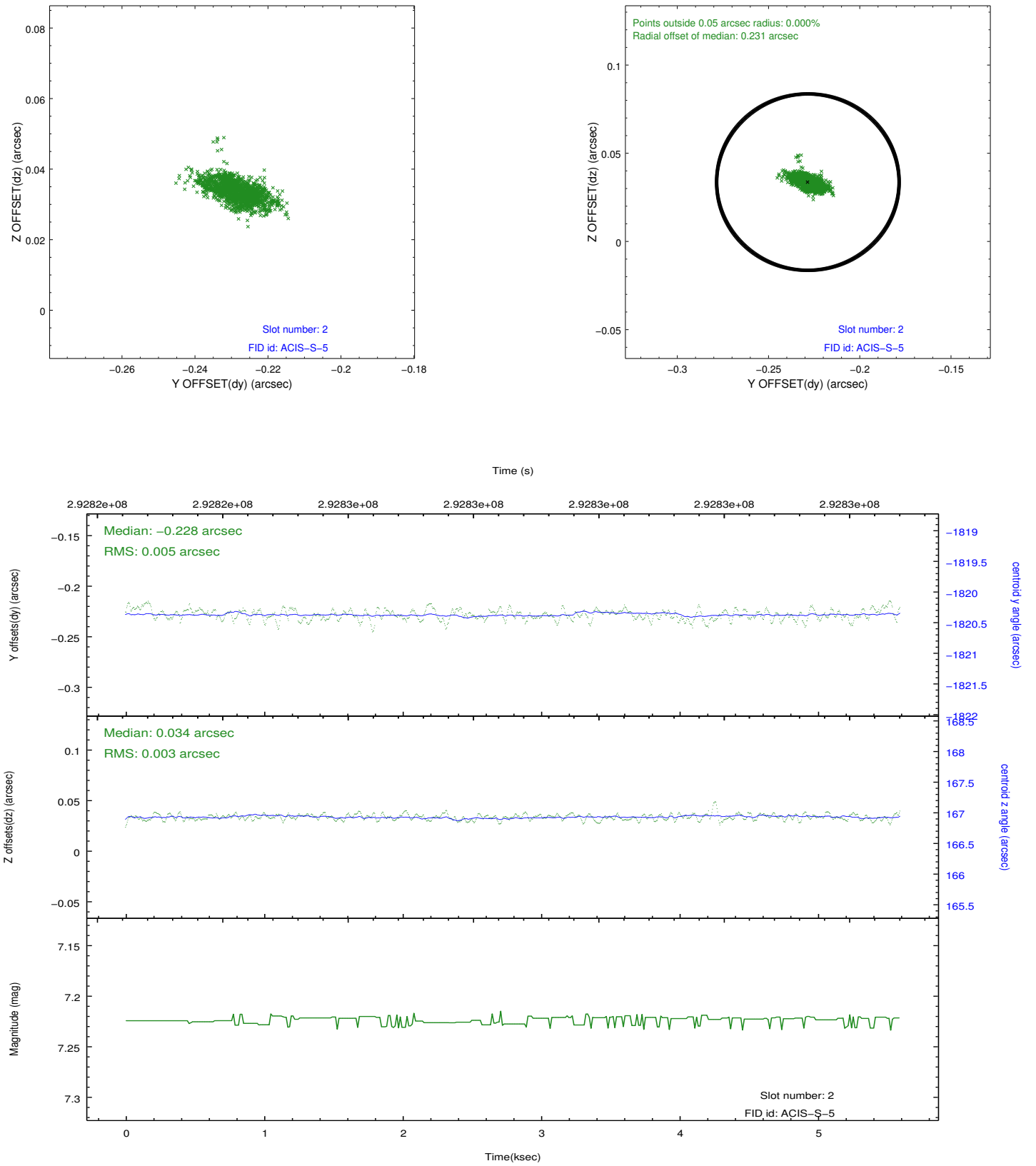
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15199998

A.2 Comments

Joint proposal with Spitzer.