

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1685 - L2 Version 4
Chandra X-Ray Center

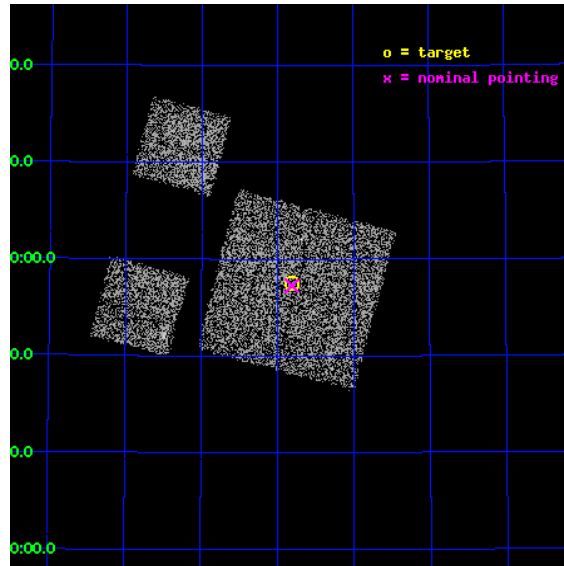
L2 Processing Date : Sep 20 2012

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

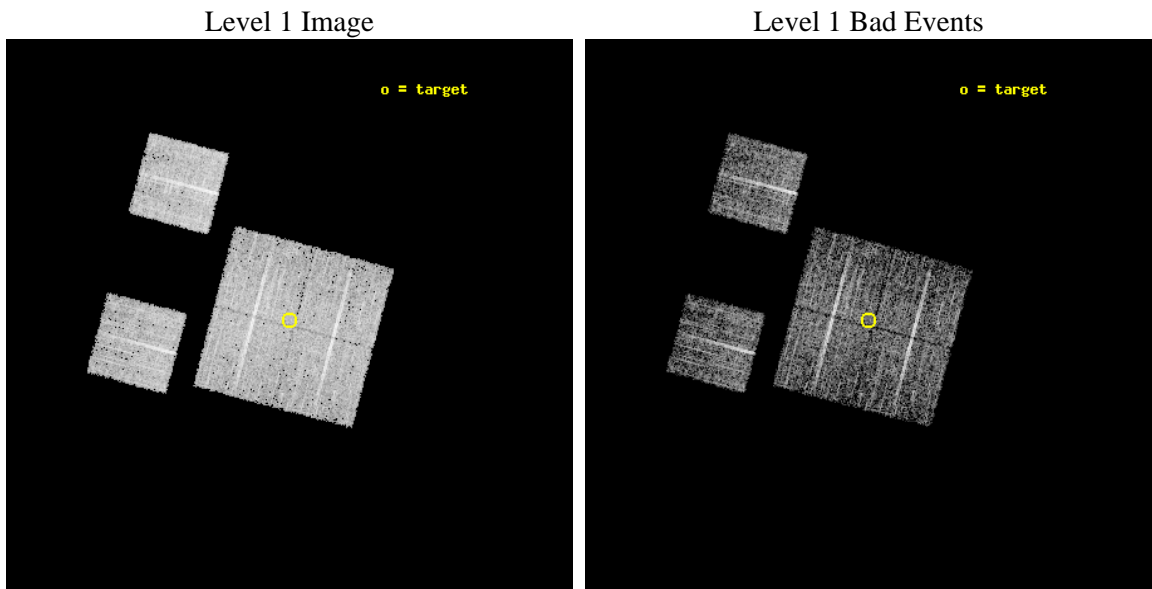
seq_num	900044	Sequence number
obs_id	1685	Observation id
title	LOCKMAN HOLE SHALLOW SURVEY	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	LOCKMAN HOLE #20	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	163.204167	Observer's specified target RA [deg]
dec_targ	57.958889	Observer's specified target Dec [deg]
ra_nom	163.20276904107	Nominal RA [deg]
dec_nom	57.954177372508	Nominal Dec [deg]
roll_nom	284.95276925243	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4758.4000044167	Sum of GTIs [s]
livetime	4698.1462783963	Livetime [s]
ontime0	4758.4000044167	Sum of GTIs [s]
ontime1	4758.4000044167	Sum of GTIs [s]
ontime2	4758.4000044167	Sum of GTIs [s]
ontime3	4758.4000044167	Sum of GTIs [s]
ontime6	4758.4000044167	Sum of GTIs [s]
ontime8	4758.4000044167	Sum of GTIs [s]
l2events	18224	Number of level 2 events



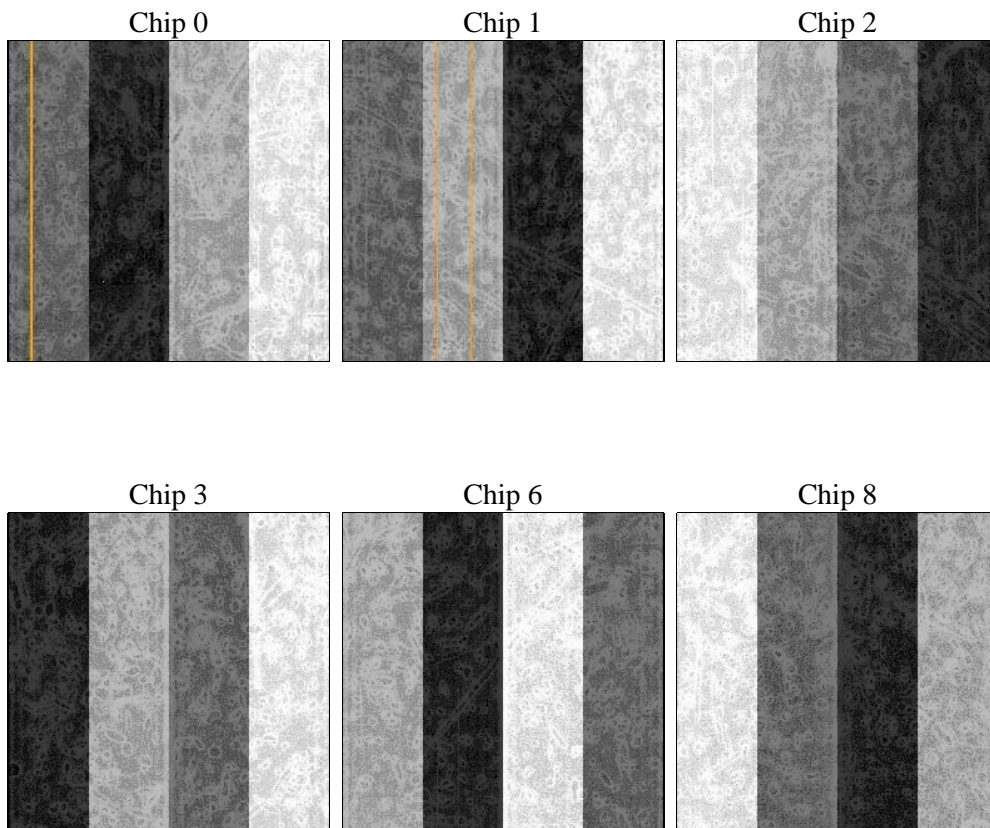
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4758.4000044167	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	4758.4000044167	Sum of GTIs [s]
date	2012-09-20T12:40:32	Date and time of file creation	ontime1	4758.4000044167	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4758.4000044167	Sum of GTIs [s]
			ontime3	4758.4000044167	Sum of GTIs [s]
			ontime6	4758.4000044167	Sum of GTIs [s]
			ontime8	4758.4000044167	Sum of GTIs [s]
			l1events	193420	Number of level 1 events

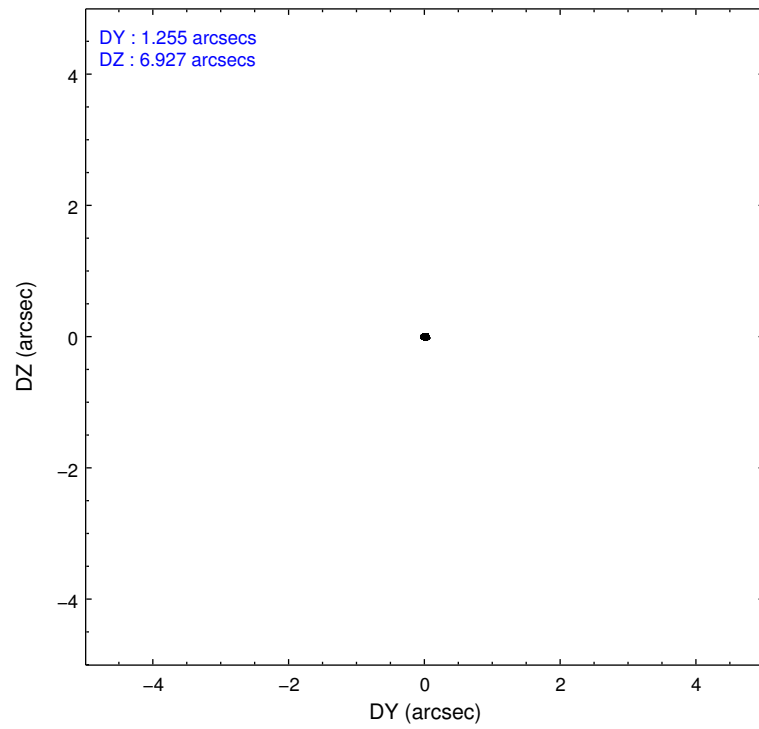
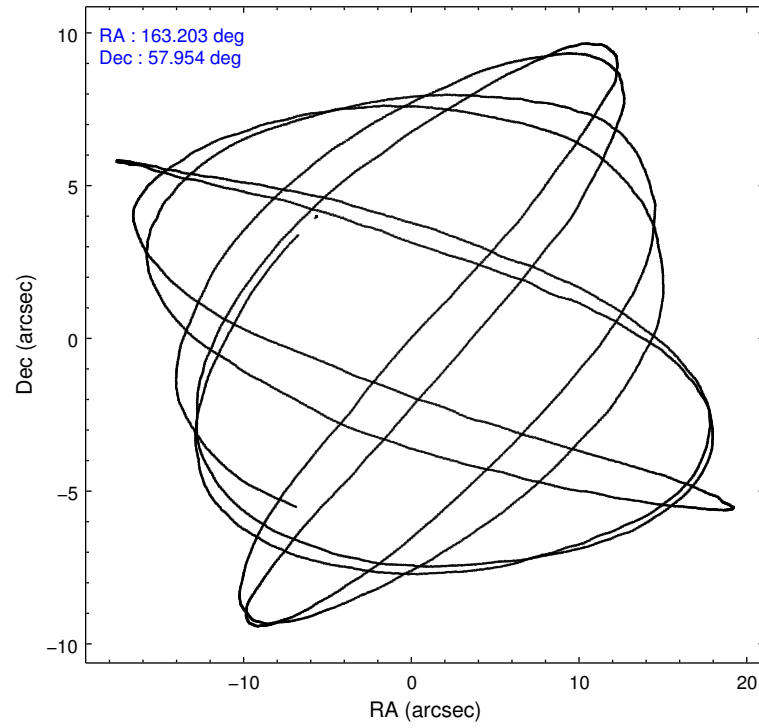
2.1.4 Events

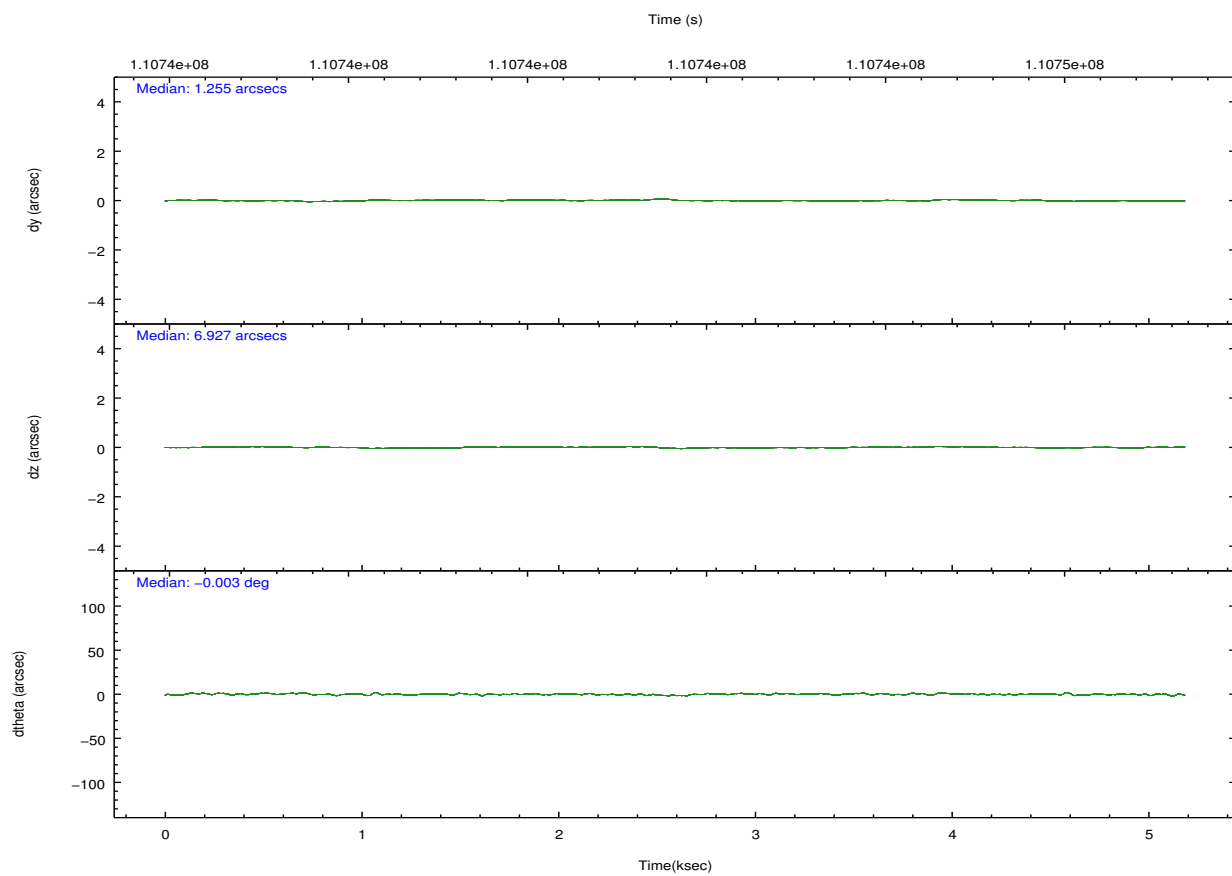
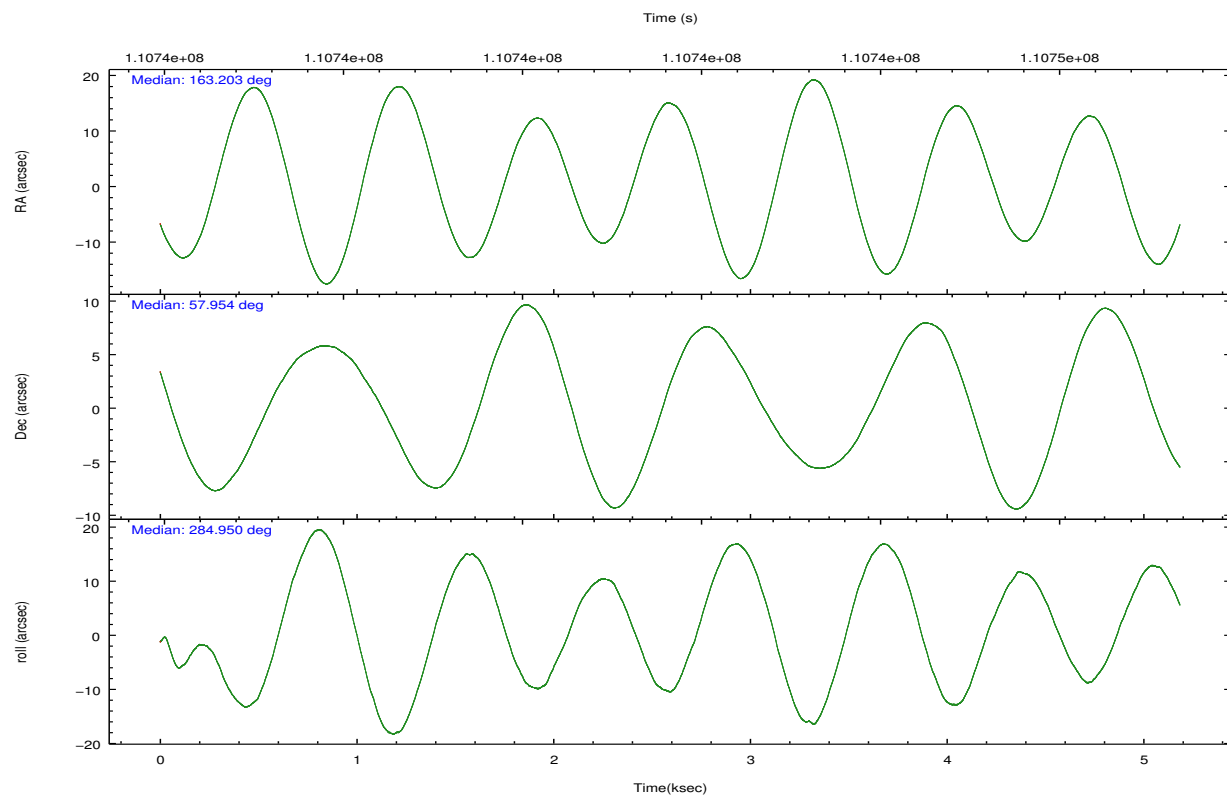
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 8		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 8
level 1 events	28761	29437	31173	31299	31201	41549	grade 0 events	1423	1477	1499	1456	1370	2537
rejected events	25254	25757	27686	27909	27844	33658		4%	5%	4%	4%	4%	6%
rejected %	87%	87%	88%	89%	89%	81%	grade 1 events	9	12	9	10	11	33
								0%	0%	0%	0%	0%	0%
							grade 2 events	754	784	735	656	693	1643
								2%	2%	2%	2%	2%	3%
							grade 3 events	366	374	307	322	345	876
								1%	1%	0%	1%	1%	2%
							grade 4 events	342	356	340	294	326	840
								1%	1%	1%	0%	1%	2%
							grade 5 events	1197	1190	971	1192	1280	1706
								4%	4%	3%	3%	4%	4%
							grade 6 events	629	694	608	665	629	1997
								2%	2%	1%	2%	2%	4%
							grade 7 events	24041	24550	26704	26704	26547	31917
								83%	83%	85%	85%	85%	76%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012368	ACIS-012368	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	163.166318	163.2027690410693	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.973584	57.95417737250845	Alternating exposures requested	N	N
[deg] Pointing Roll	284.774985	284.9527692524297	[s] Primary exposure time	0.000000	3.2
[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)	110741415.184000	110741039.77262			
Observation start date	2001-07-05T17:29:11	2001-07-05T17:23:59			
[s] Observation end time (MET)	110746415.184000	110746562.98534			
Observation end date	2001-07-05T18:52:31	2001-07-05T18:56:02			
Read mode	TIMED	TIMED			

2.3 Aspect



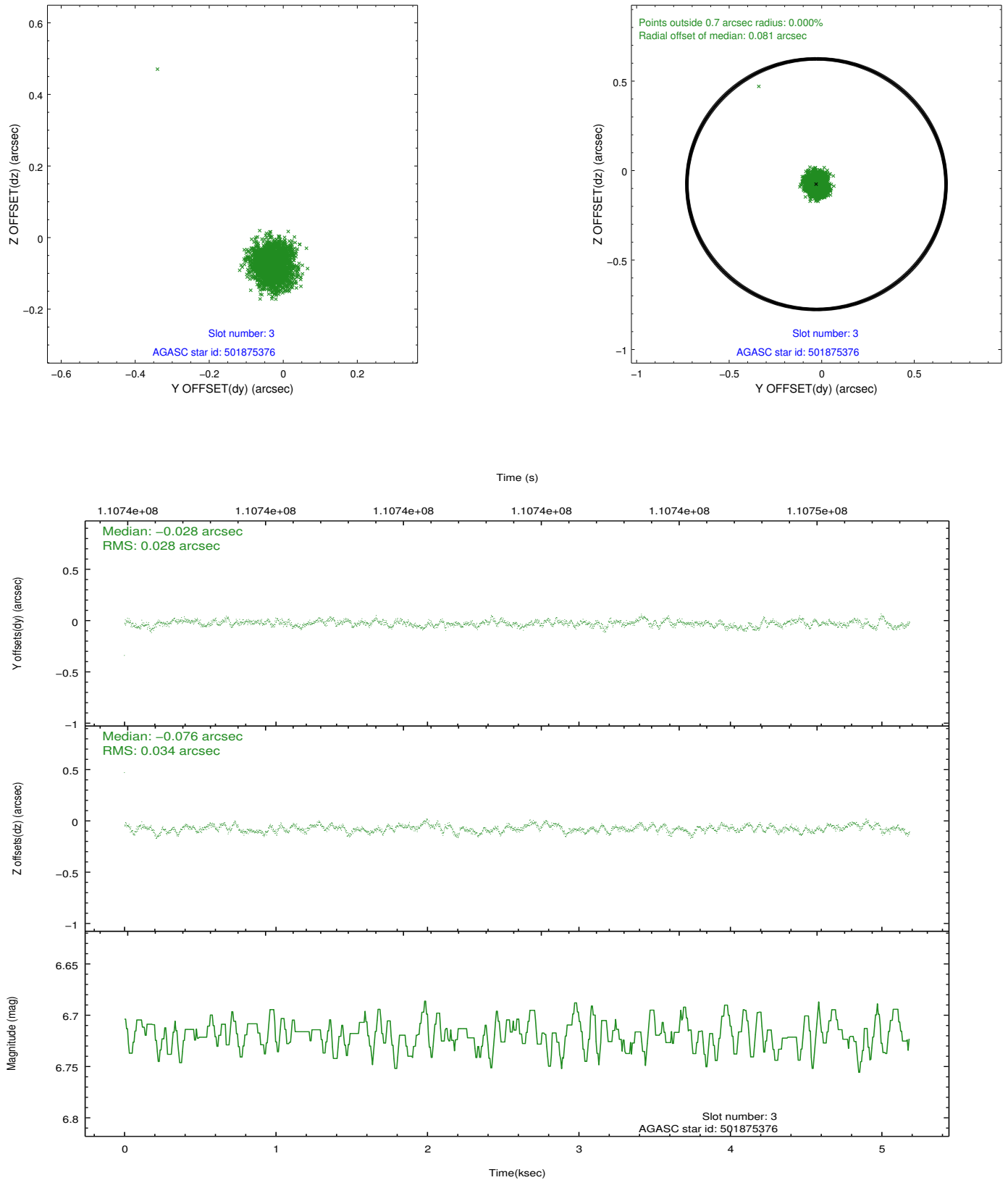


Slot Statistics

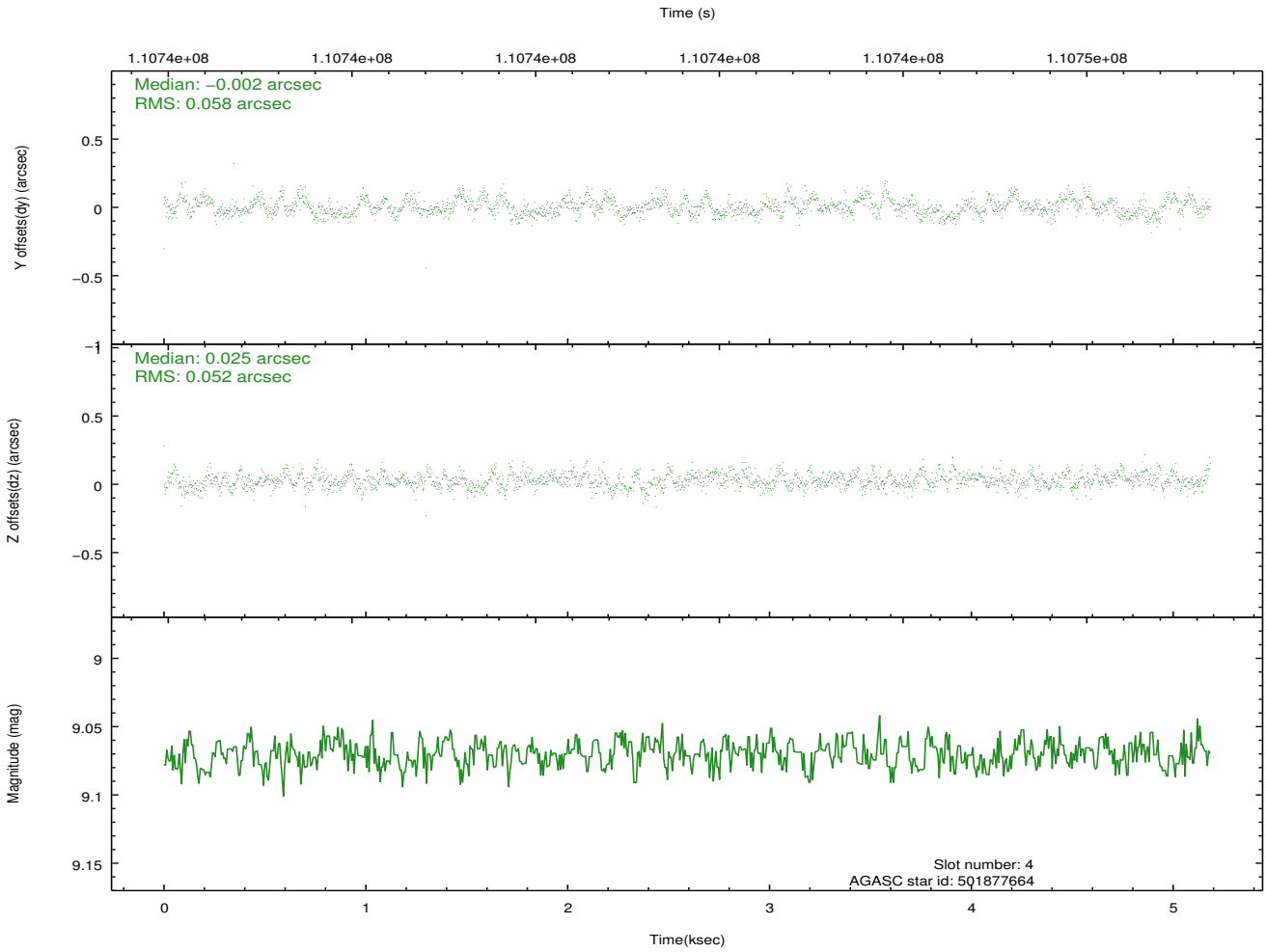
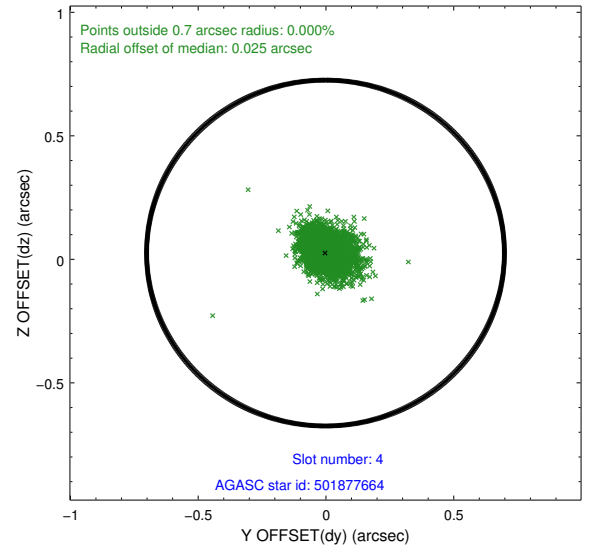
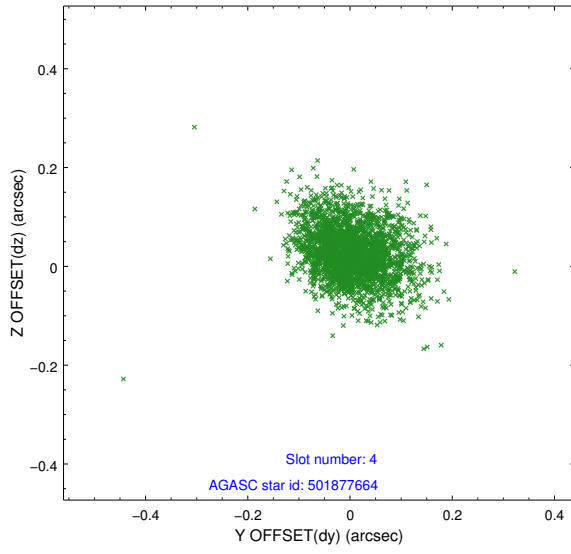
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1265	-0.031	-0.068	0.009	0.016	0.000000	0.000000	-755.61	-836.76
1	FID	ACIS-I-4	7.18	1265	-0.053	0.045	0.006	0.010	0.000000	0.000000	2157.88	1068.98
2	FID	ACIS-I-5	7.23	1265	-0.017	0.093	0.008	0.015	0.000000	0.000000	-1807.94	1068.16
3	GUIDE	501875376	6.72	2530	-0.028	-0.076	0.045	0.072	164.111621	57.502963	2092.03	1339.09
4	GUIDE	501877664	9.07	2529	-0.002	0.025	0.080	0.135	163.740288	58.664193	-2133.69	1674.85
5	GUIDE	501877264	9.30	2529	0.087	0.162	0.089	0.168	163.254394	57.702218	986.87	-84.33
6	GUIDE	501875280	9.88	2530	-0.064	0.000	0.102	0.167	161.800922	58.322389	-1897.42	-2168.97
7	GUIDE	501875064	9.11	2529	-0.007	-0.110	0.069	0.114	163.017696	58.369846	-1452.00	91.21

2.4 Star Slots

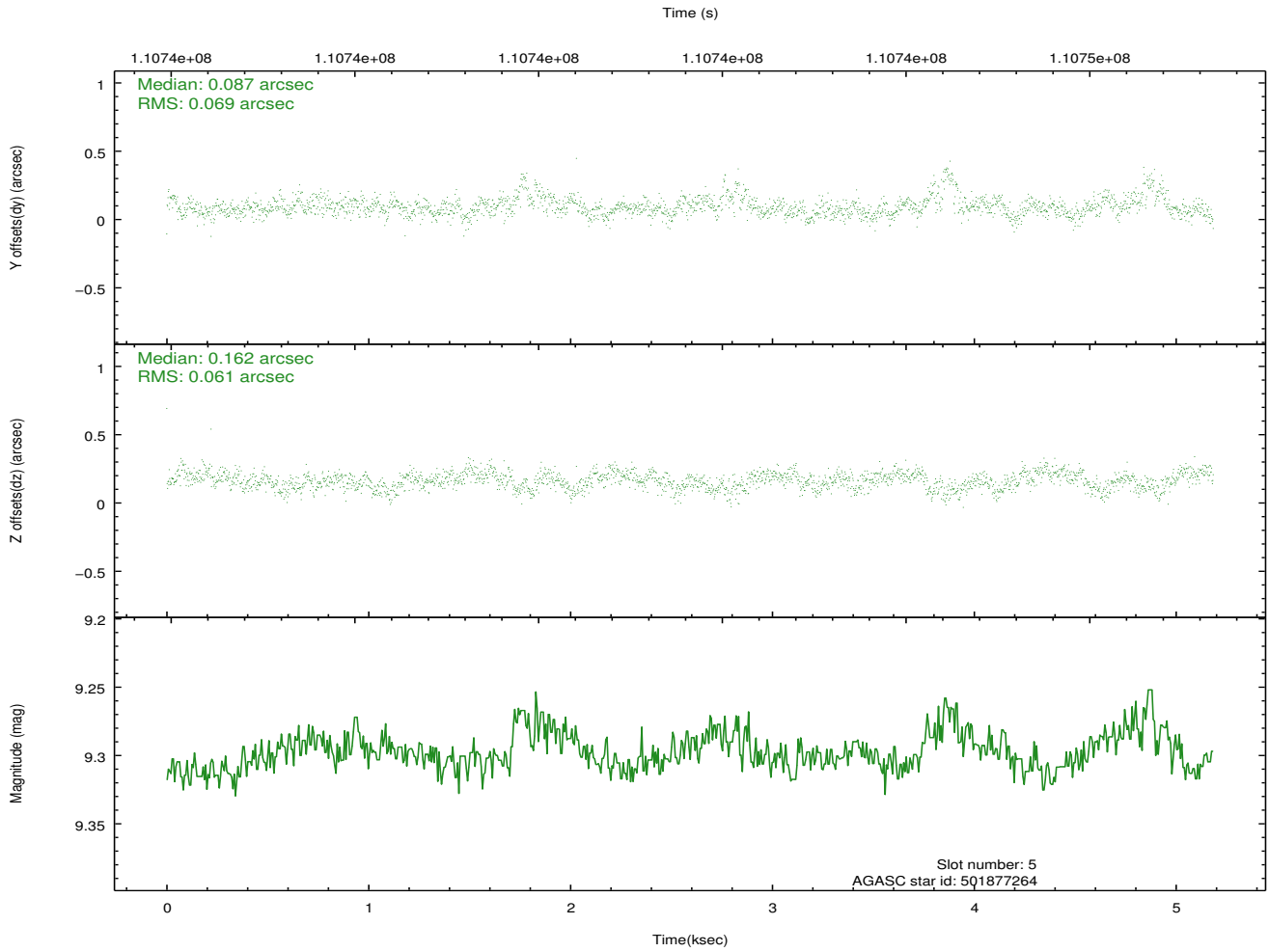
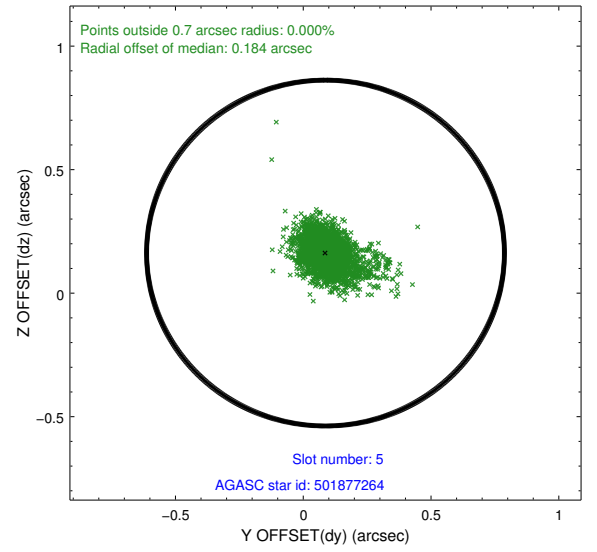
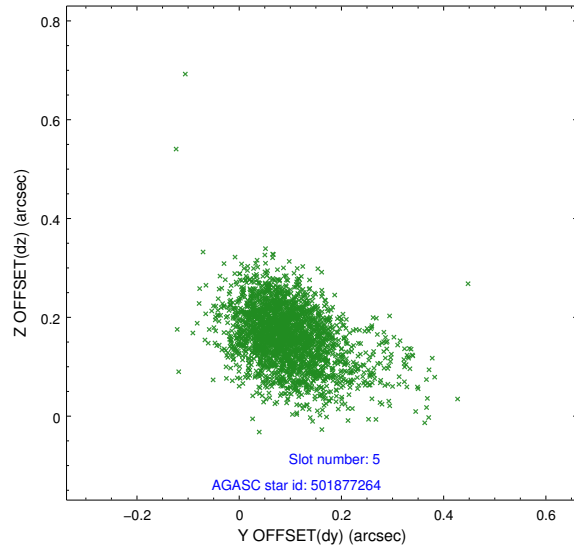
2.4.1 Slot 3



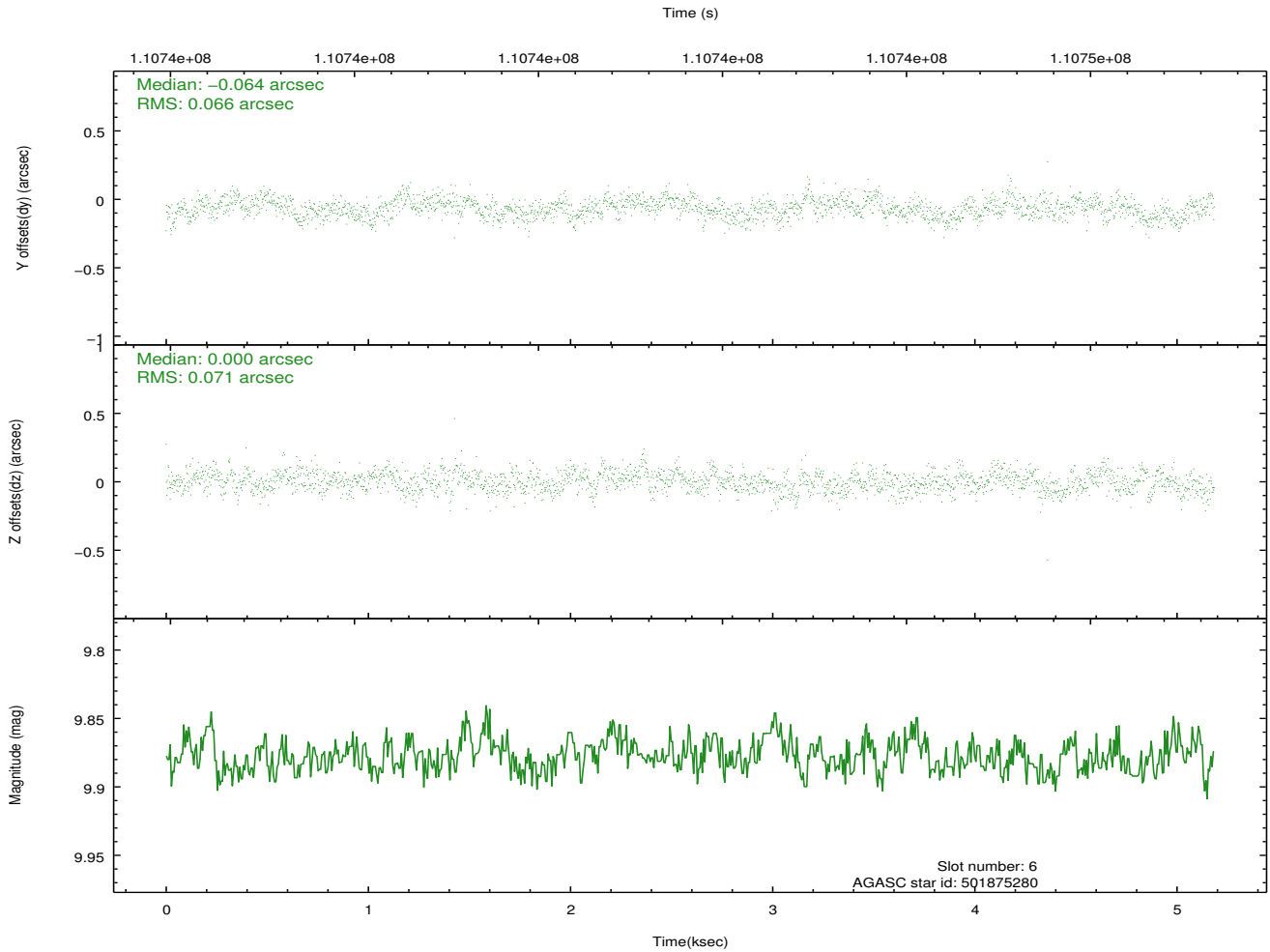
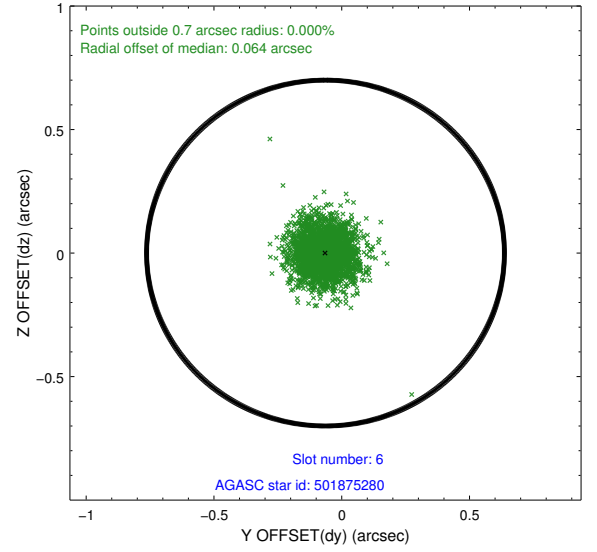
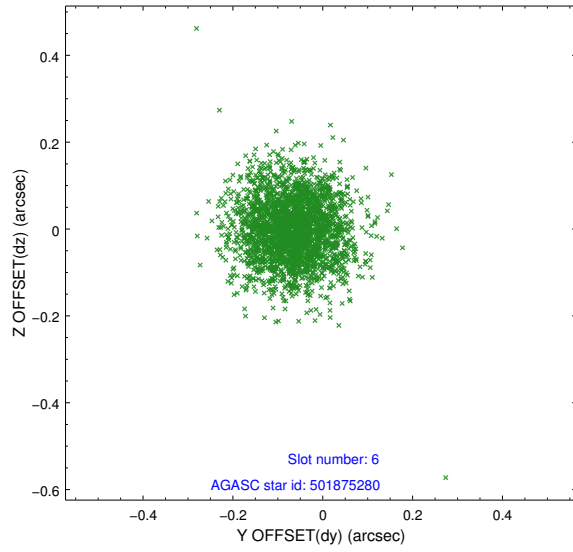
2.4.2 Slot 4



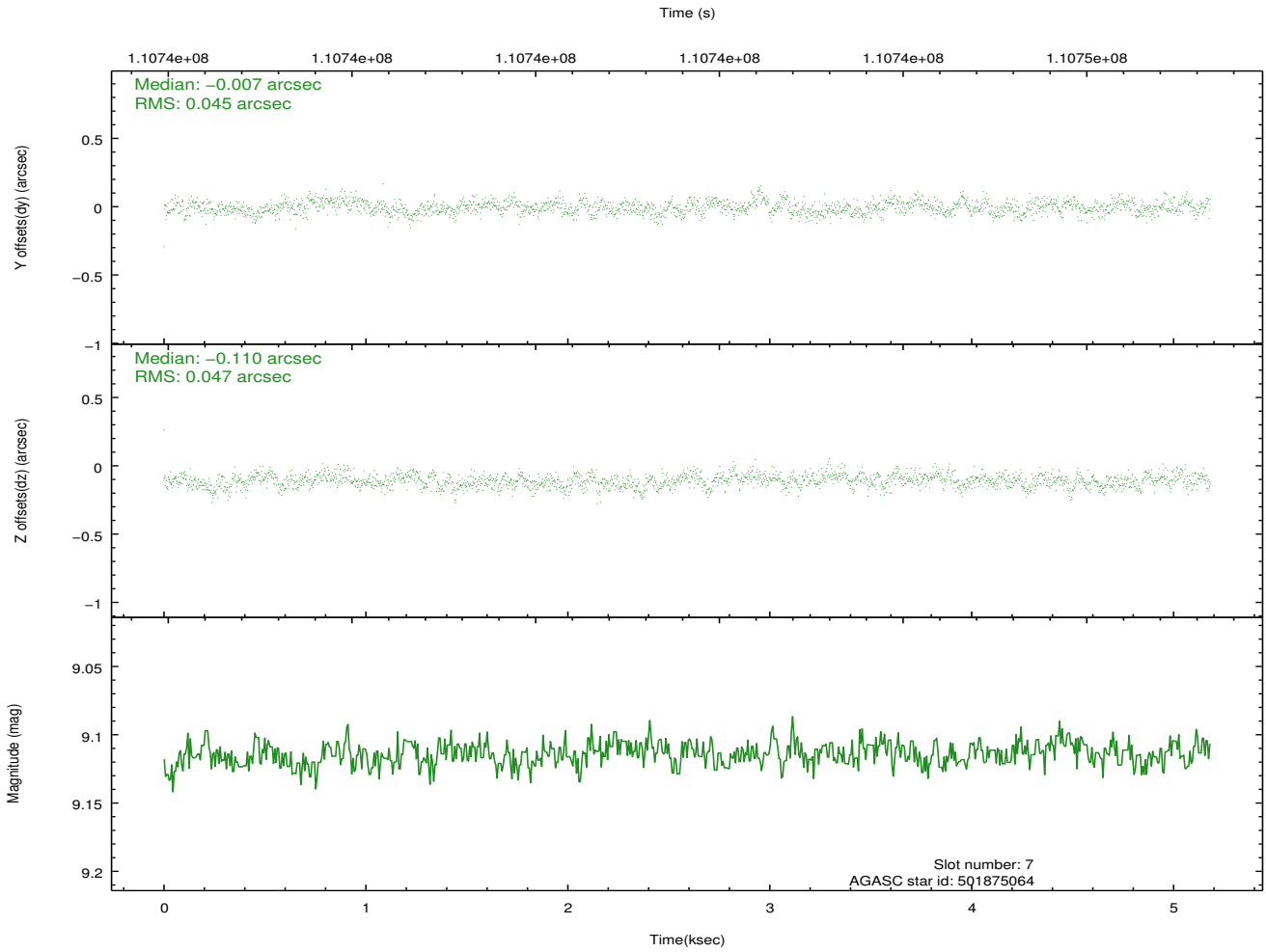
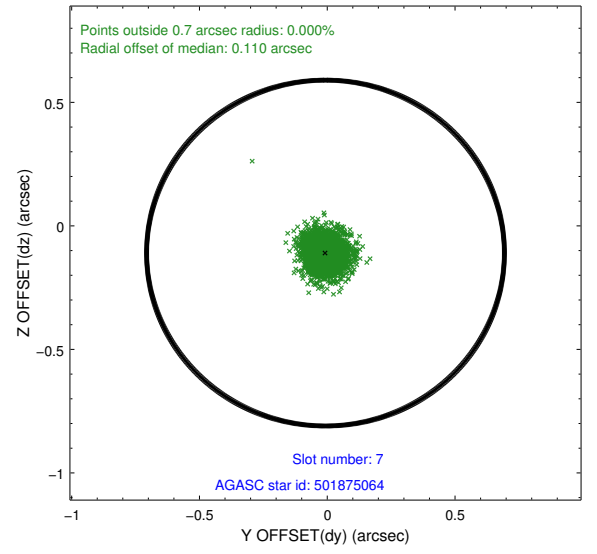
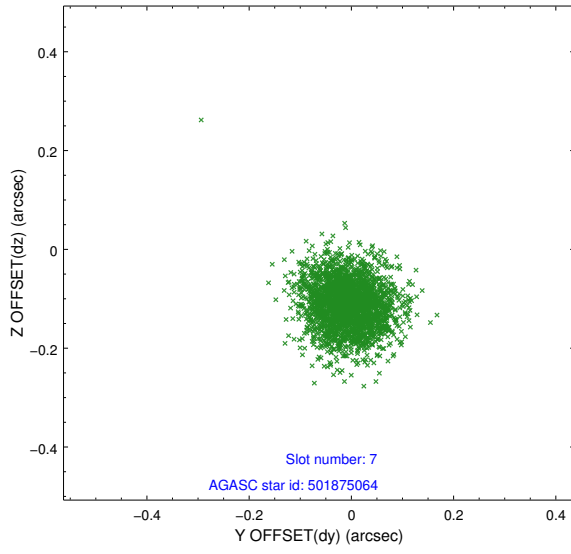
2.4.3 Slot 5



2.4.4 Slot 6

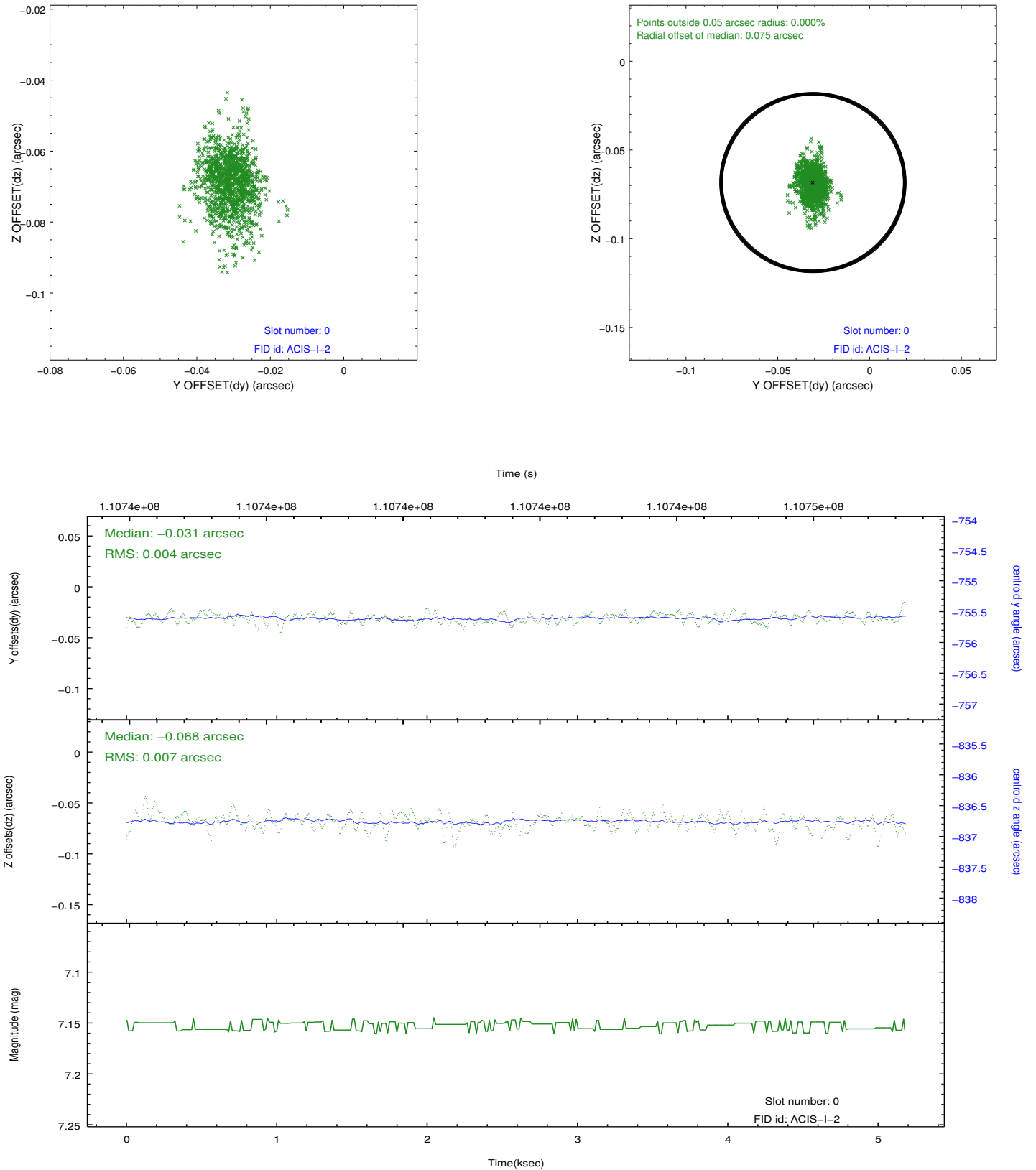


2.4.5 Slot 7

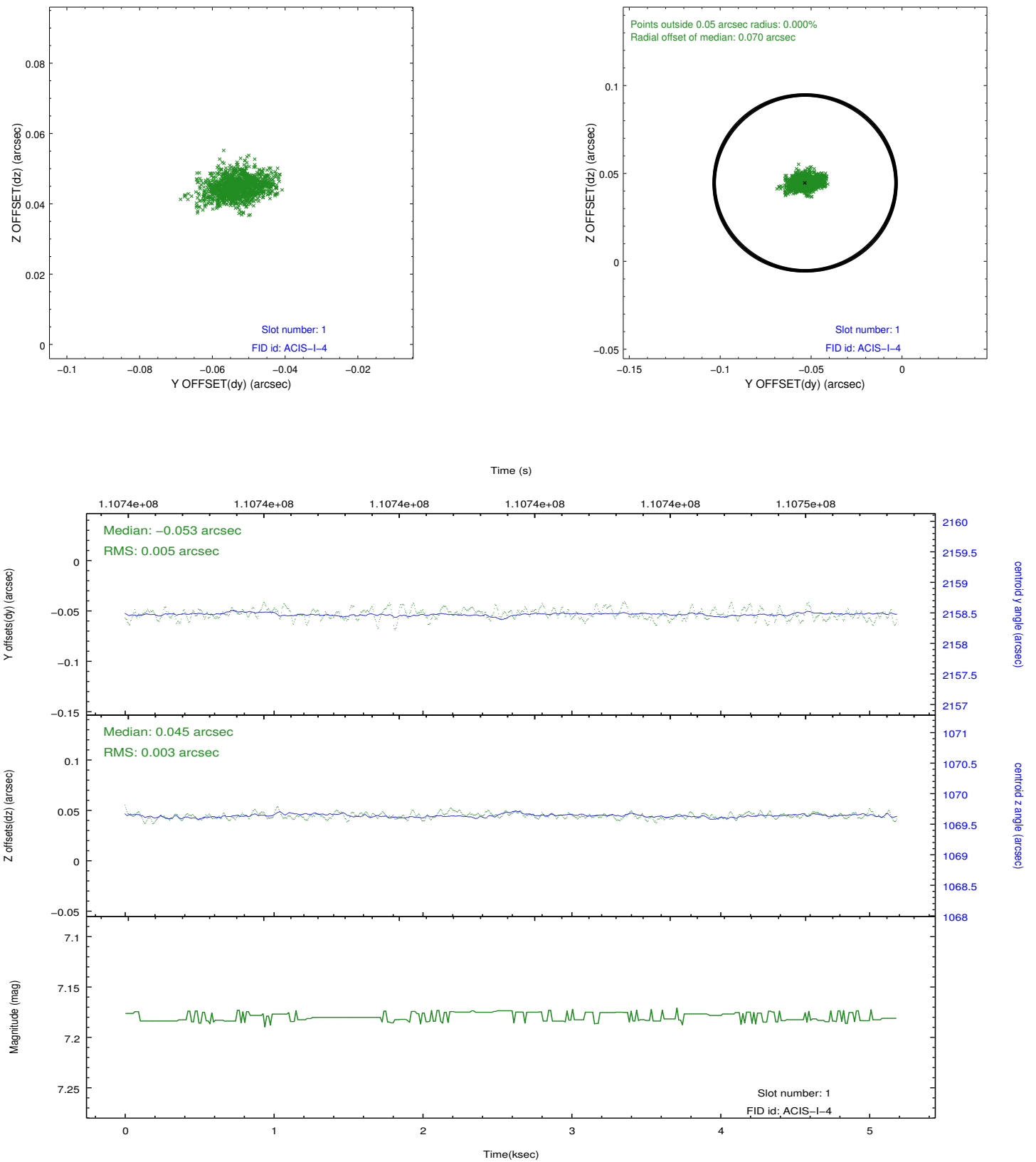


2.5 FID Slots

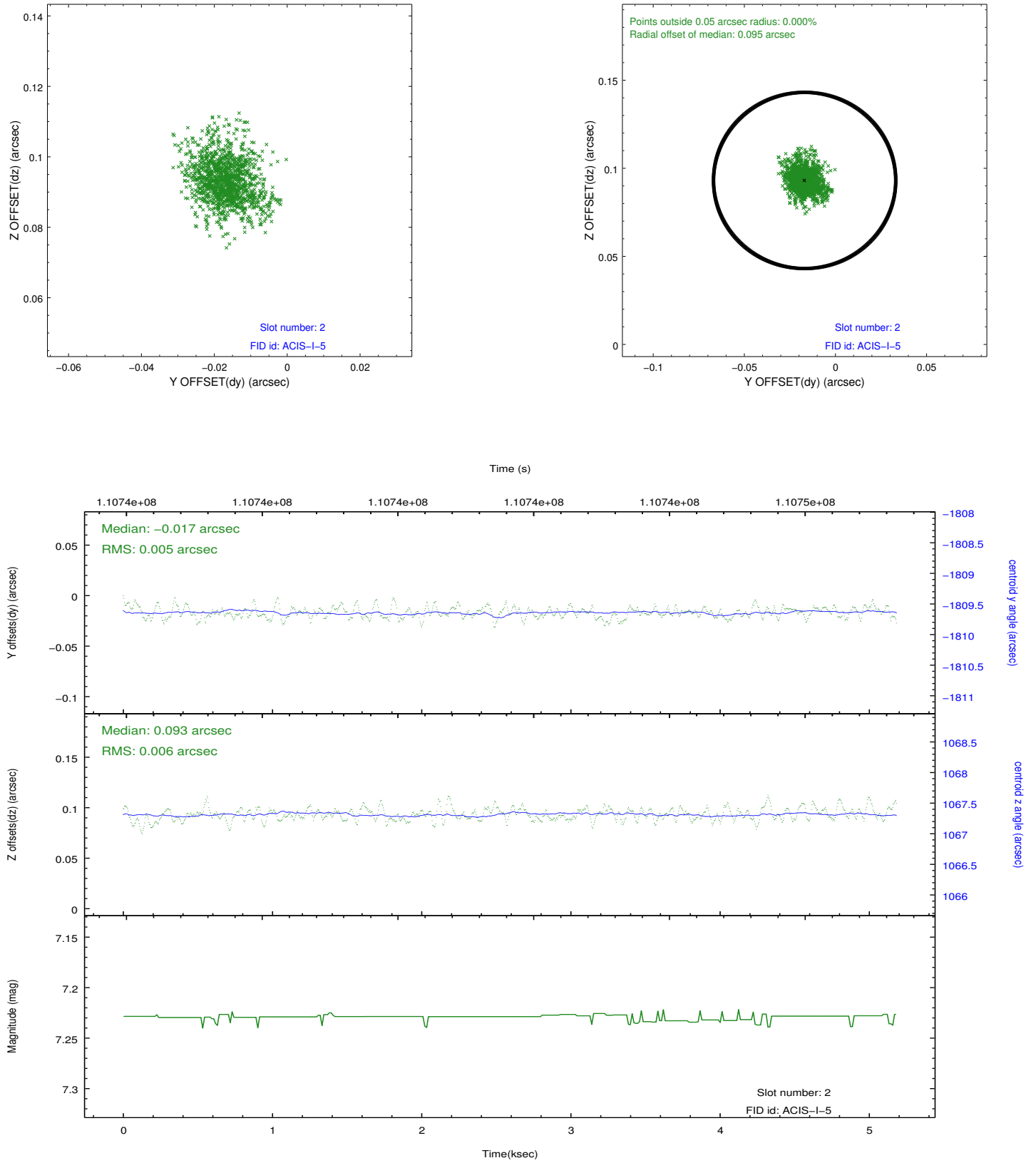
2.5.1 Slot 0



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)	2012.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.761

A.2 Comments