

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1580 - L2 Version 3
Chandra X-Ray Center

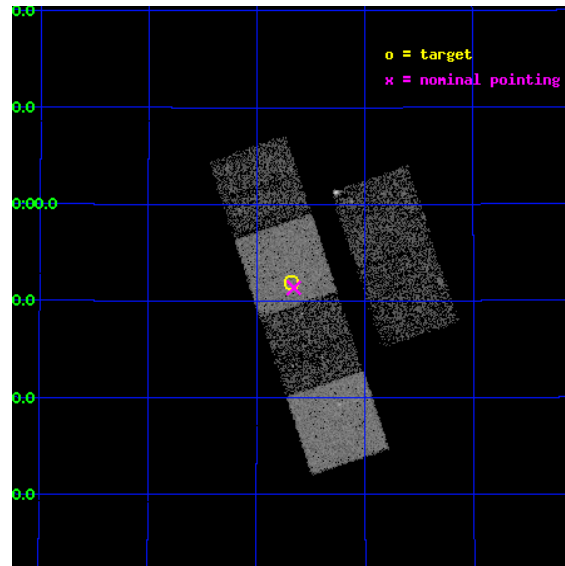
L2 Processing Date : Sep 3 2012

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

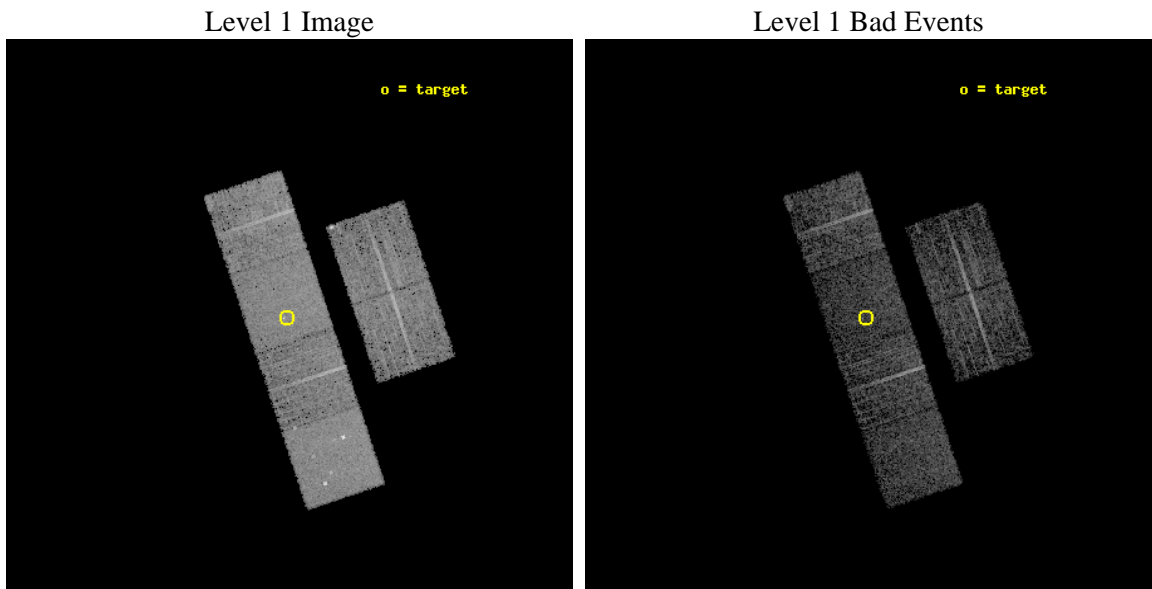
seq_num	600137	Sequence number
obs_id	1580	Observation id
title	MONITORING THE M31 NUCLEAR REGION	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31 NUCLEUS/TRANS	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.67	Observer's specified target RA [deg]
dec_targ	40.865	Observer's specified target Dec [deg]
ra_nom	10.663794561616	Nominal RA [deg]
dec_nom	40.856297587148	Nominal Dec [deg]
roll_nom	251.51918506685	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5129.6000047624	Sum of GTIs [s]
liveltime	5064.6459208278	Livetime [s]
ontime2	5129.6000047624	Sum of GTIs [s]
ontime3	5129.6000047624	Sum of GTIs [s]
ontime5	5129.6000047624	Sum of GTIs [s]
ontime6	5129.6000047624	Sum of GTIs [s]
ontime7	5129.6000047624	Sum of GTIs [s]
ontime8	5129.6000047624	Sum of GTIs [s]
l2events	48954	Number of level 2 events



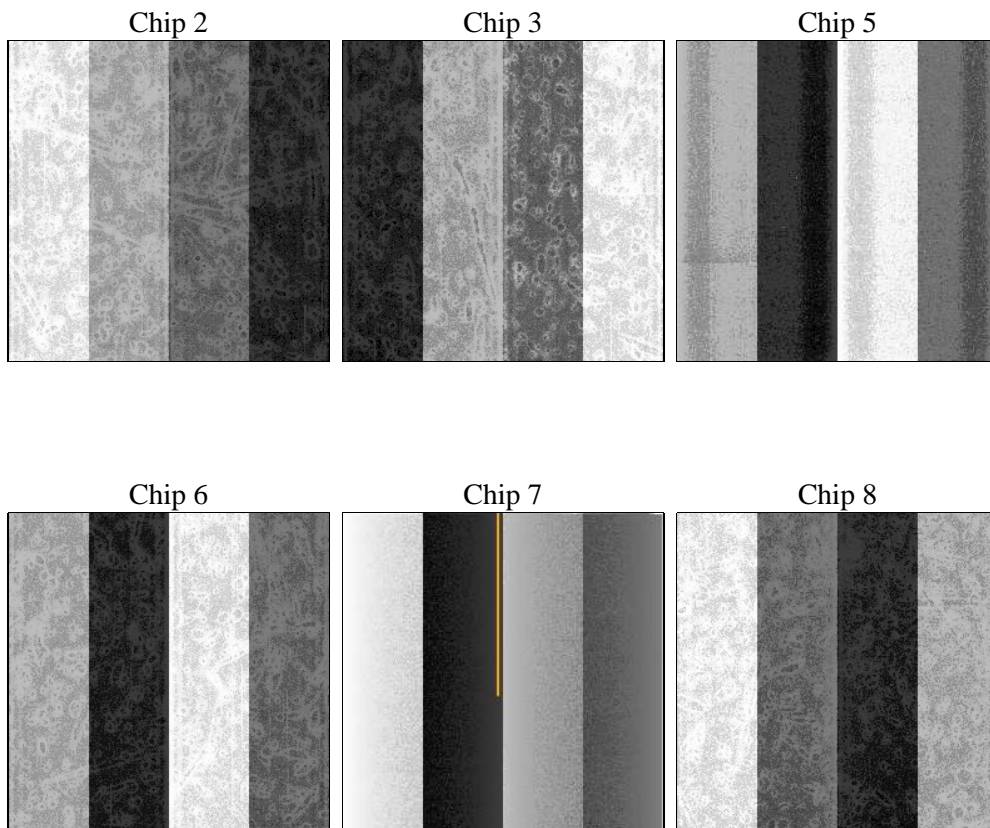
2 OBI

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	5129.6000047624	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime2	5129.6000047624	Sum of GTIs [s]
date	2012-09-03T16:06:39	Date and time of file creation	ontime3	5129.6000047624	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5129.6000047624	Sum of GTIs [s]
			ontime6	5129.6000047624	Sum of GTIs [s]
			ontime7	5129.6000047624	Sum of GTIs [s]
			ontime8	5129.6000047624	Sum of GTIs [s]
			l1events	229027	Number of level 1 events

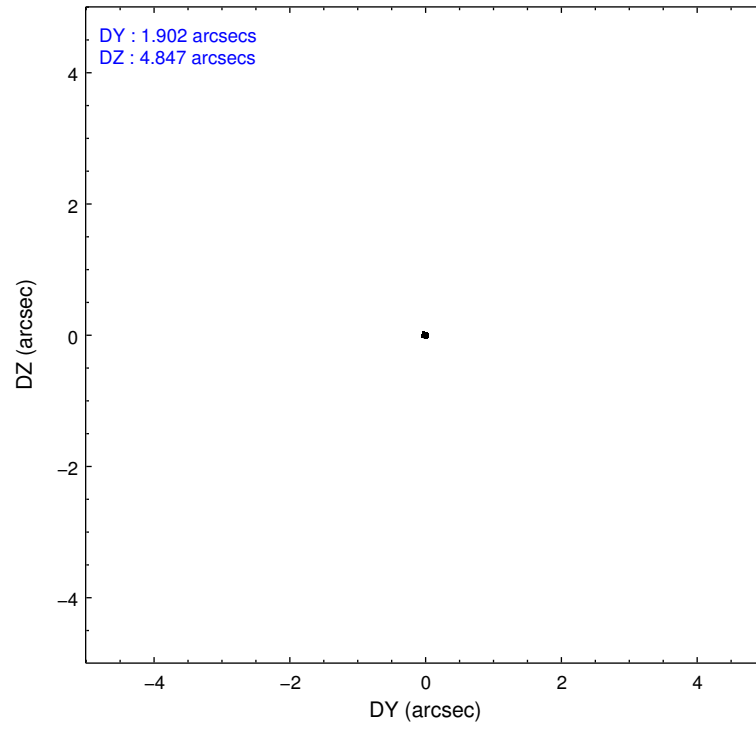
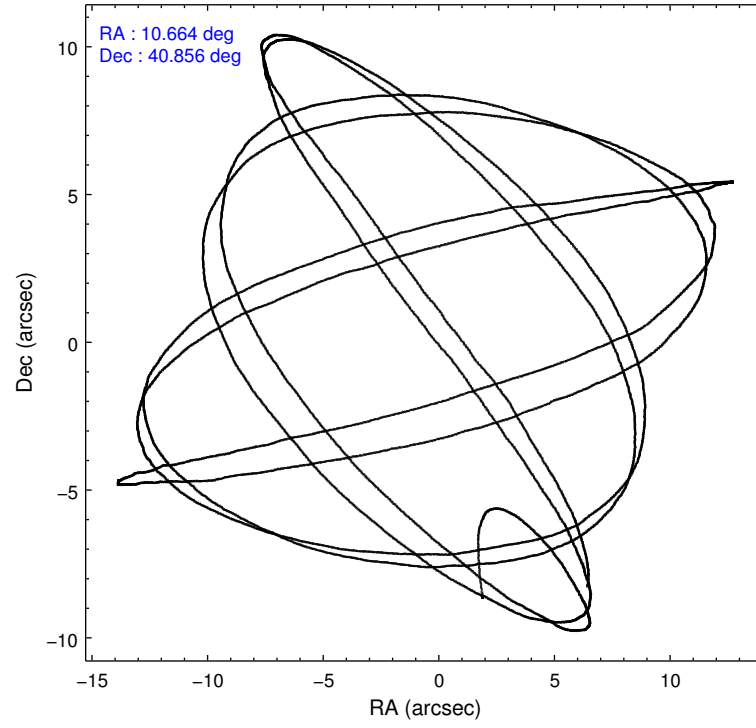
2.1.4 Events

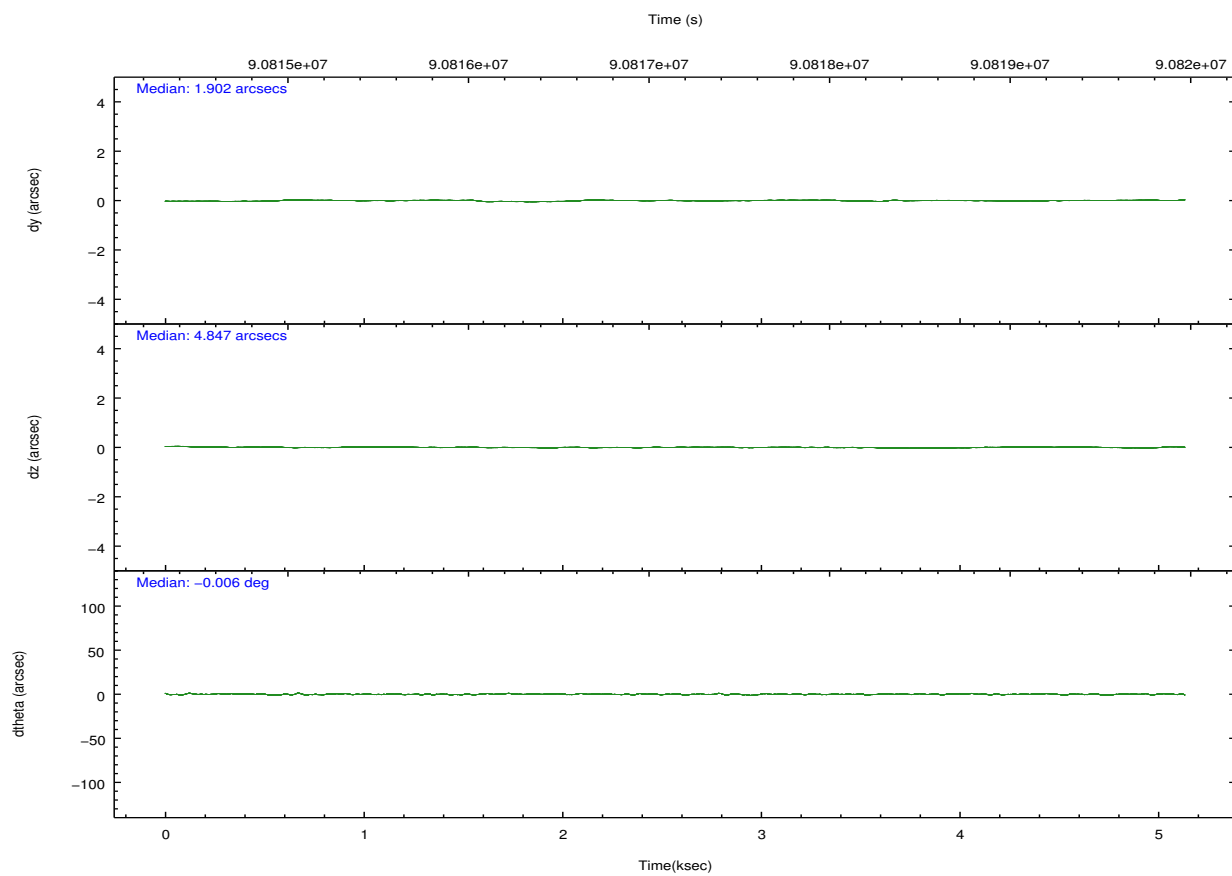
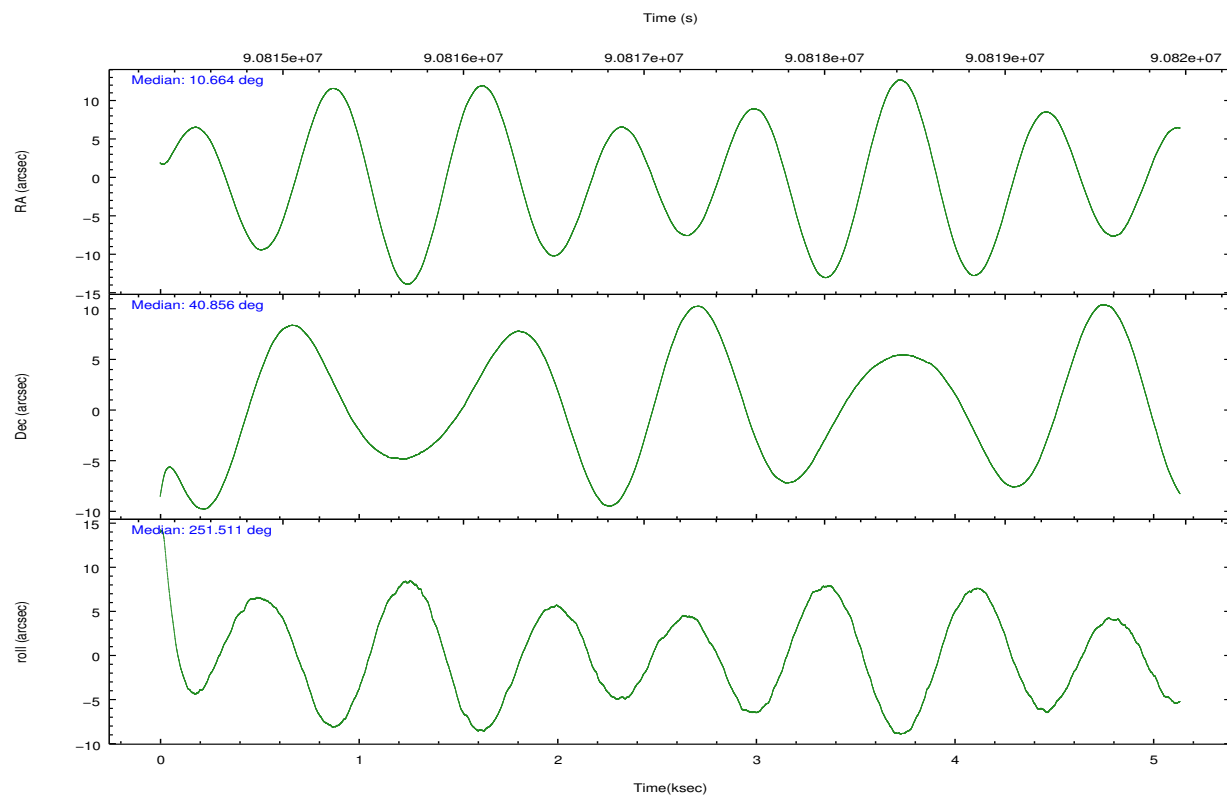
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	32286	32227	47301	33619	42087	41507	grade 0 events	1667	2357	4121	1793	2011	2801
rejected events	28756	27791	25856	29793	24875	33722		5%	7%	8%	5%	4%	6%
rejected %	89%	86%	54%	88%	59%	81%	grade 1 events	21	20	83	14	34	17
								0%	0%	0%	0%	0%	0%
							grade 2 events	736	831	6314	745	3757	1844
								2%	2%	13%	2%	8%	4%
							grade 3 events	353	418	974	383	1620	794
								1%	1%	2%	1%	3%	1%
							grade 4 events	386	386	858	381	1724	777
								1%	1%	1%	1%	4%	1%
							grade 5 events	1028	1177	3584	1281	3998	1752
								3%	3%	7%	3%	9%	4%
							grade 6 events	654	676	10652	785	9242	2094
								2%	2%	22%	2%	21%	5%
							grade 7 events	27441	26362	20715	28237	19701	31428
								84%	81%	43%	83%	46%	75%

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	10.656219	10.66379456161643	Subarray requested	NONE	NONE
[deg] Pointing Dec	40.883112	40.85629758714775	Alternating exposures requested	N	N
[deg] Pointing Roll	251.367480	251.519185066854	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	89424064.184000	89424064.184000			
[s] Window stop time (MET)	90547264.184000	90547264.184000			
[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)	90814708.184000	90813489.202925			
Observation start date	2000-11-17T02:17:24	2000-11-17T01:58:09			
[s] Observation end time (MET)	90819708.184000	90819899.04066899			
Observation end date	2000-11-17T03:40:44	2000-11-17T03:44:59			
Read mode	TIMED	TIMED			

2.3 Aspect



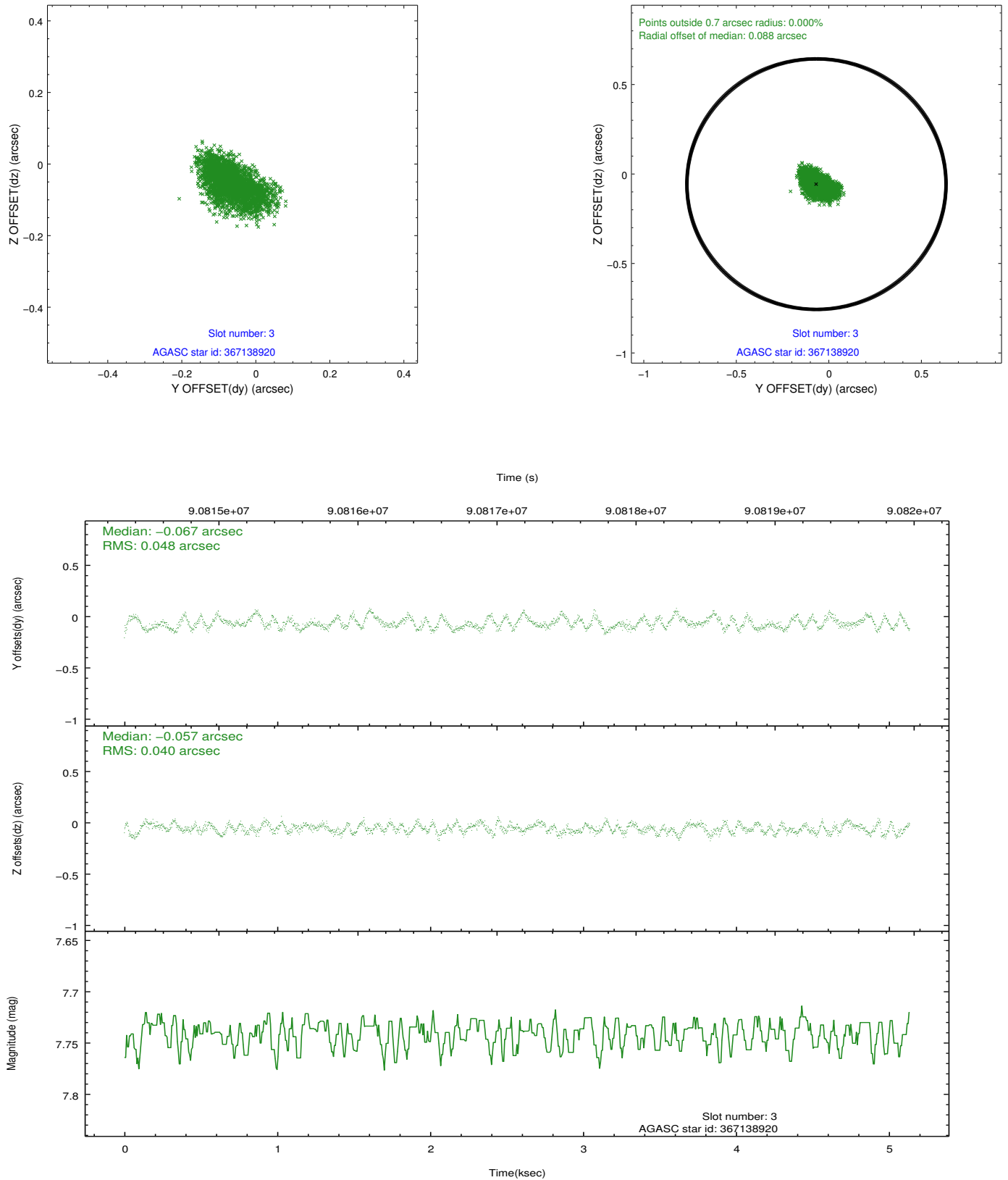


Slot Statistics

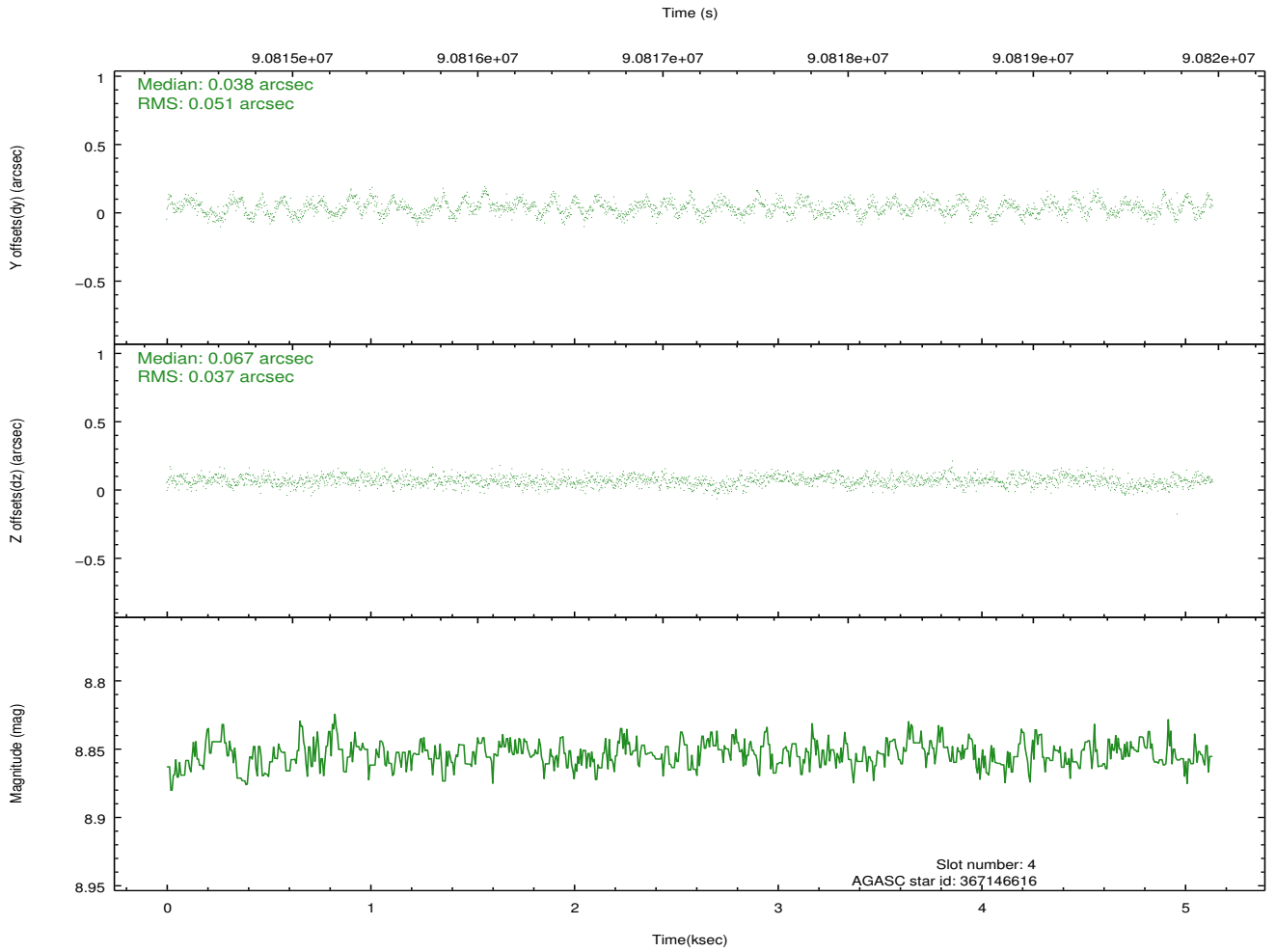
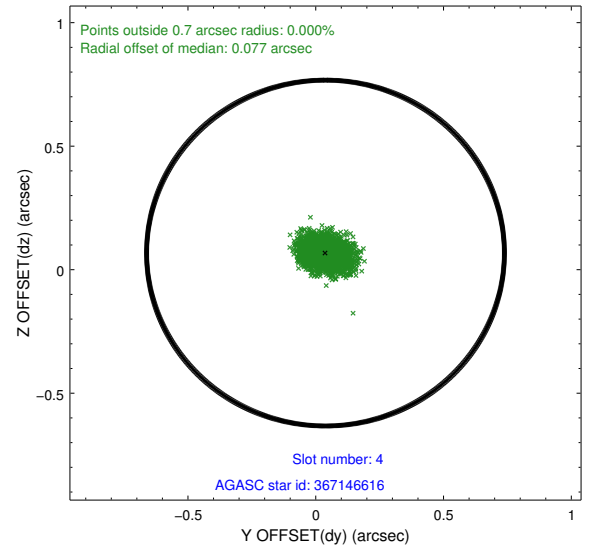
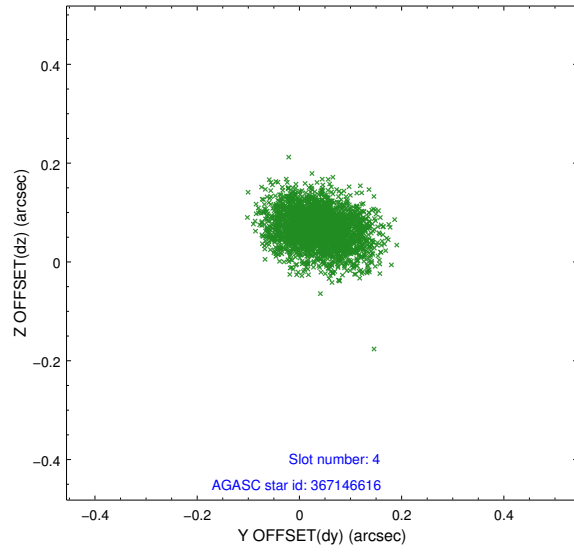
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.94	1253	-0.010	0.023	0.006	0.011	0.000000	0.000000	941.54	-1721.50
1	FID	ACIS-S-5	6.99	1253	0.005	0.009	0.006	0.010	0.000000	0.000000	-1806.80	174.80
2	FID	ACIS-S-6	7.11	1253	-0.016	-0.019	0.007	0.011	0.000000	0.000000	405.79	820.09
3	GUIDE	367138920	7.74	2506	-0.067	-0.057	0.069	0.109	11.513485	40.808909	-503.80	2294.67
4	GUIDE	367146616	8.85	2505	0.038	0.067	0.068	0.108	11.418645	41.190163	-1715.74	1601.53
5	GUIDE	367139768	7.98	2505	-0.084	0.027	0.056	0.088	11.069715	40.685175	311.71	1296.75
6	GUIDE	367148872	7.21	2505	0.074	0.064	0.057	0.086	10.505940	40.688258	796.31	-164.44
7	GUIDE	365439720	8.50	2504	0.037	-0.105	0.065	0.110	9.704623	40.431022	2363.25	-1955.80

2.4 Star Slots

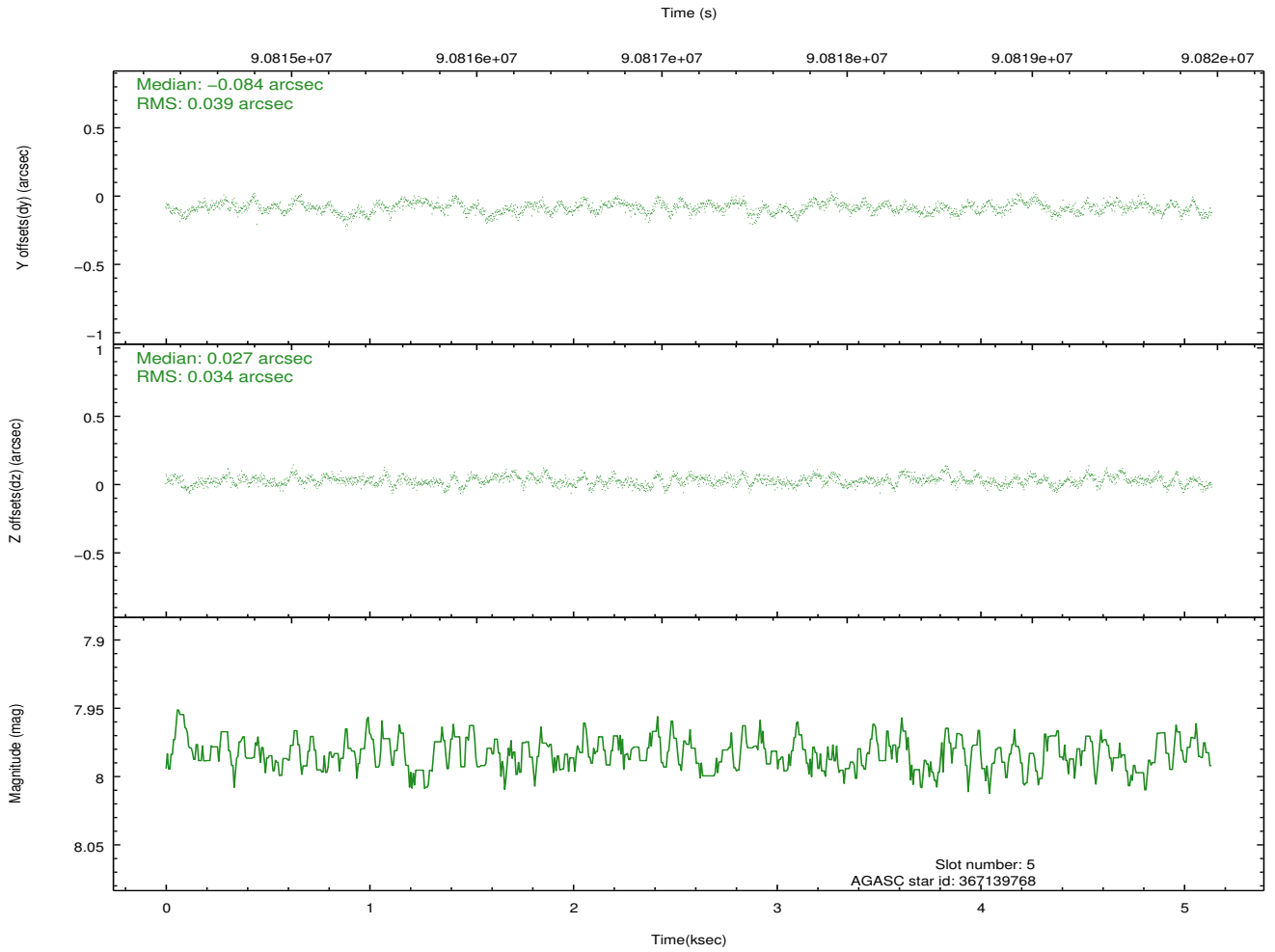
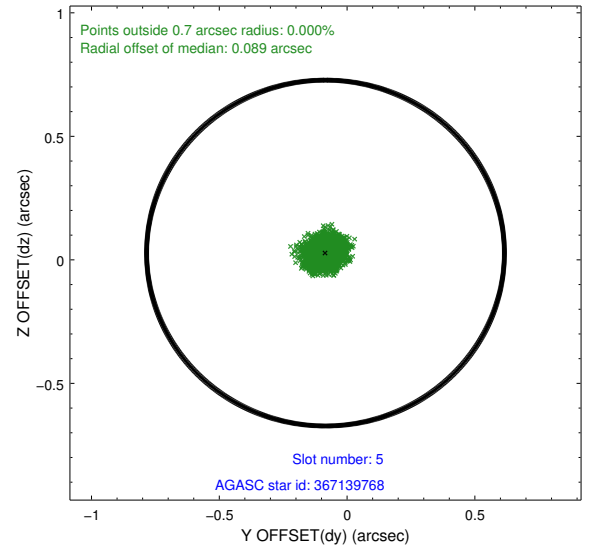
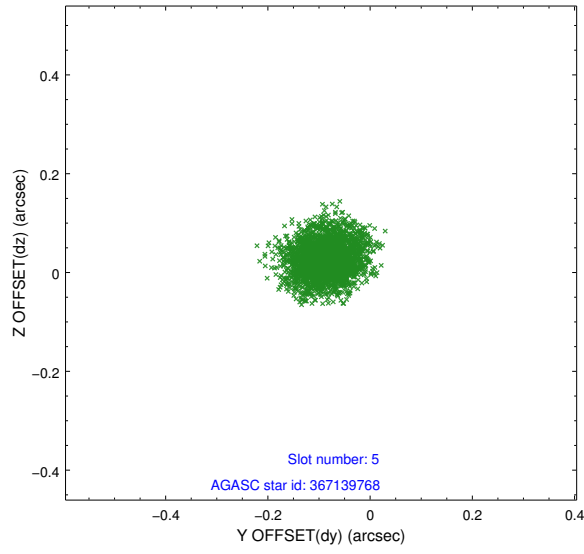
2.4.1 Slot 3



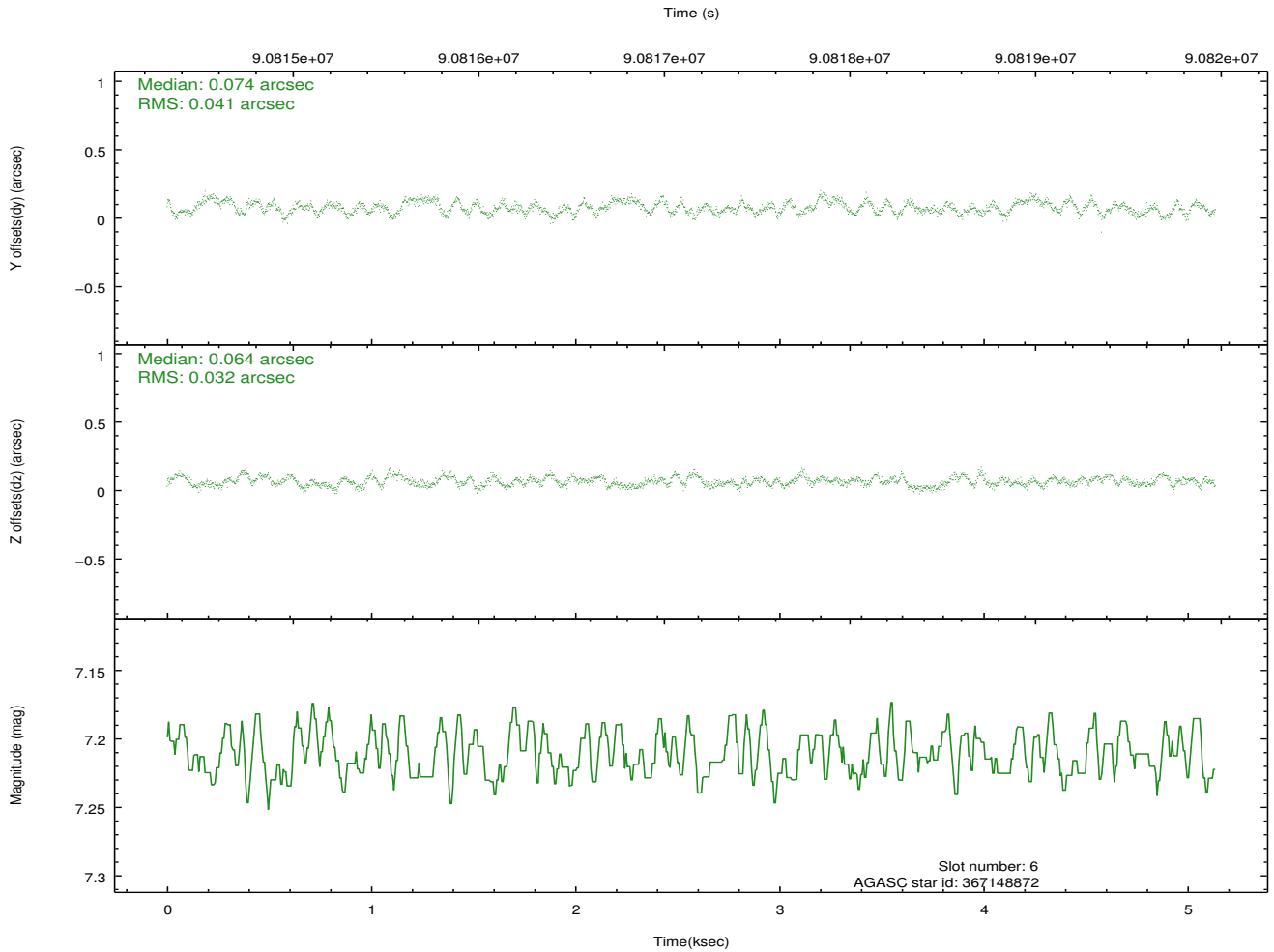
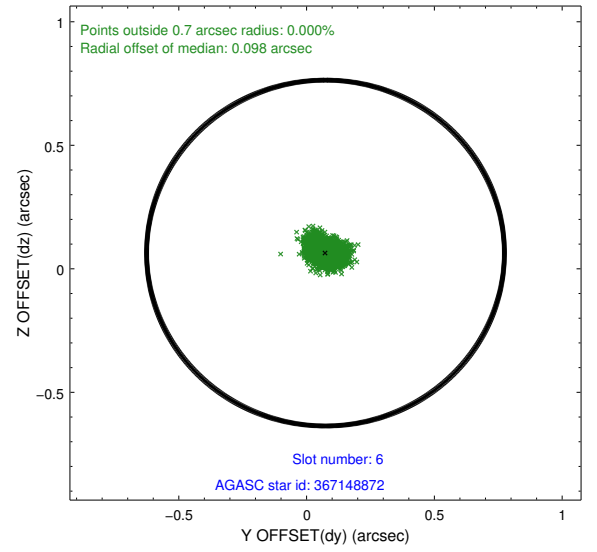
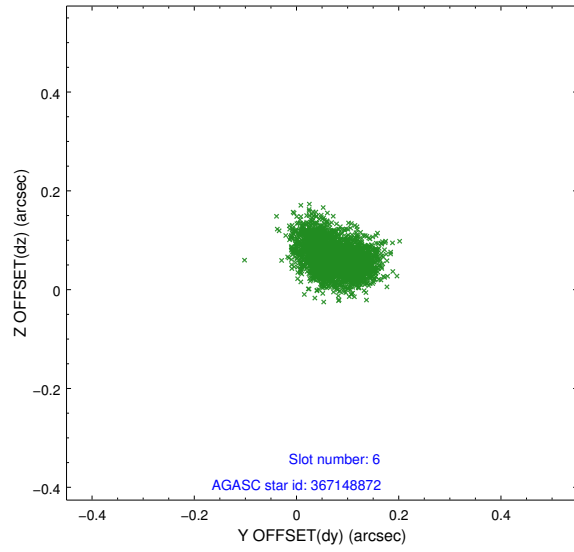
2.4.2 Slot 4



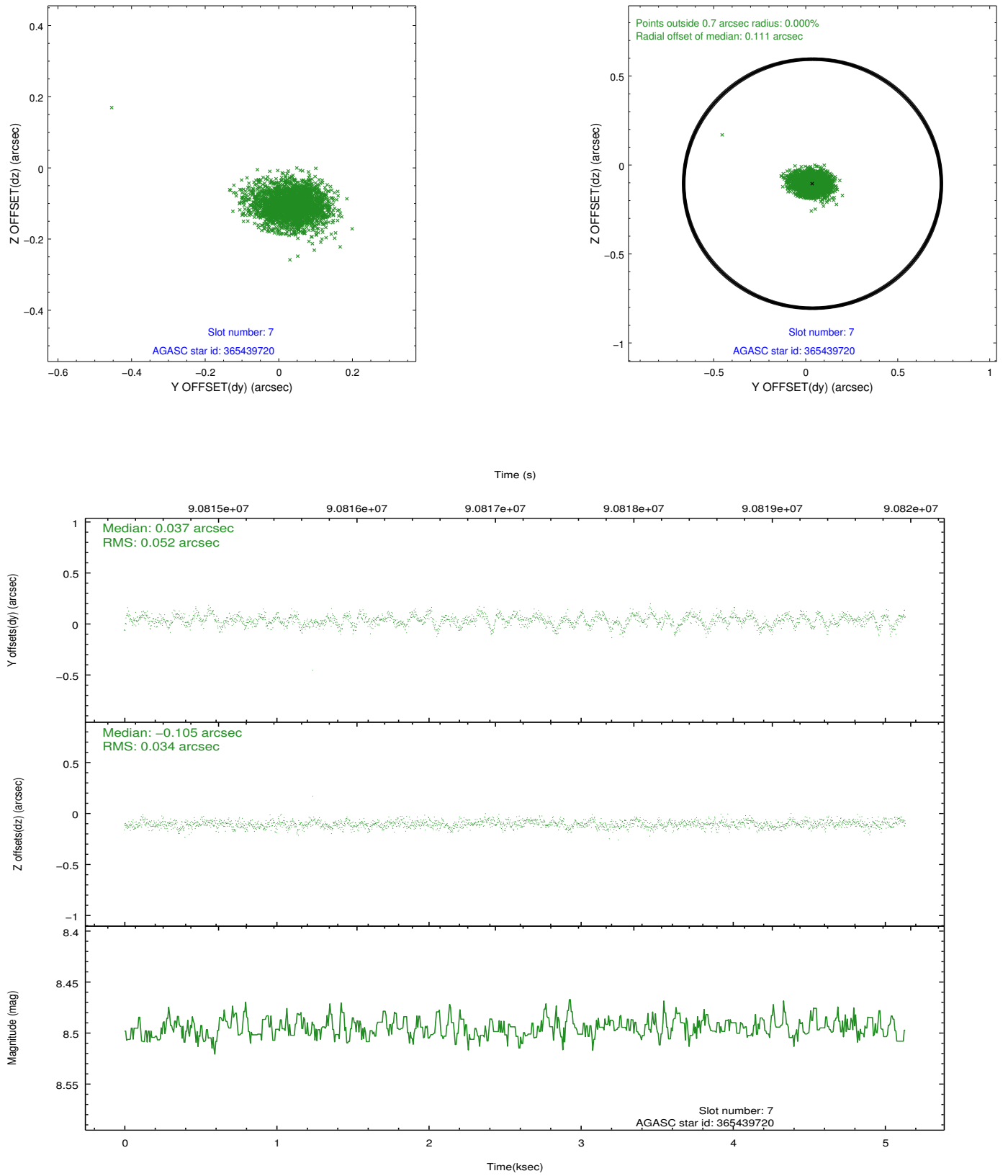
2.4.3 Slot 5



2.4.4 Slot 6

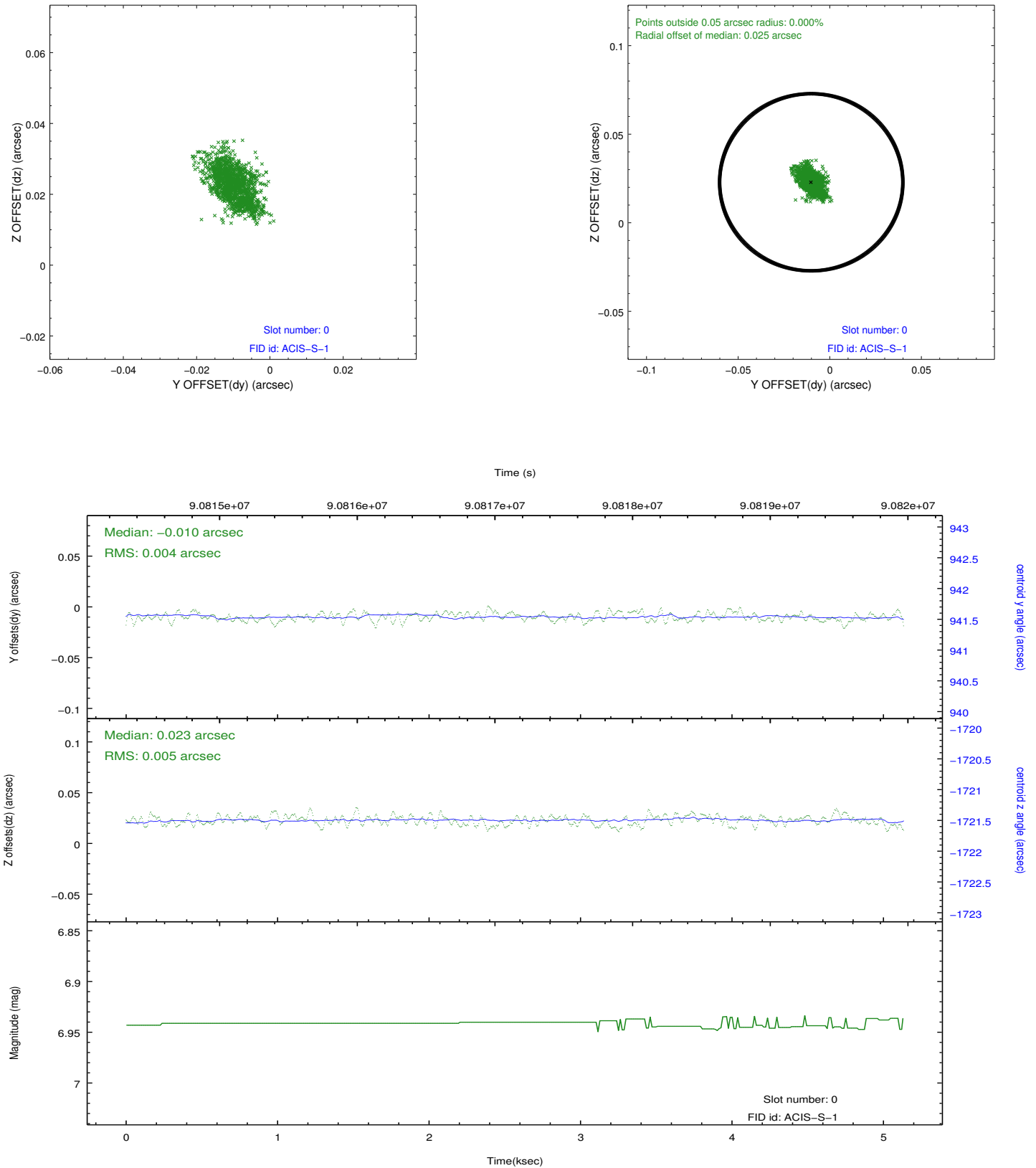


2.4.5 Slot 7

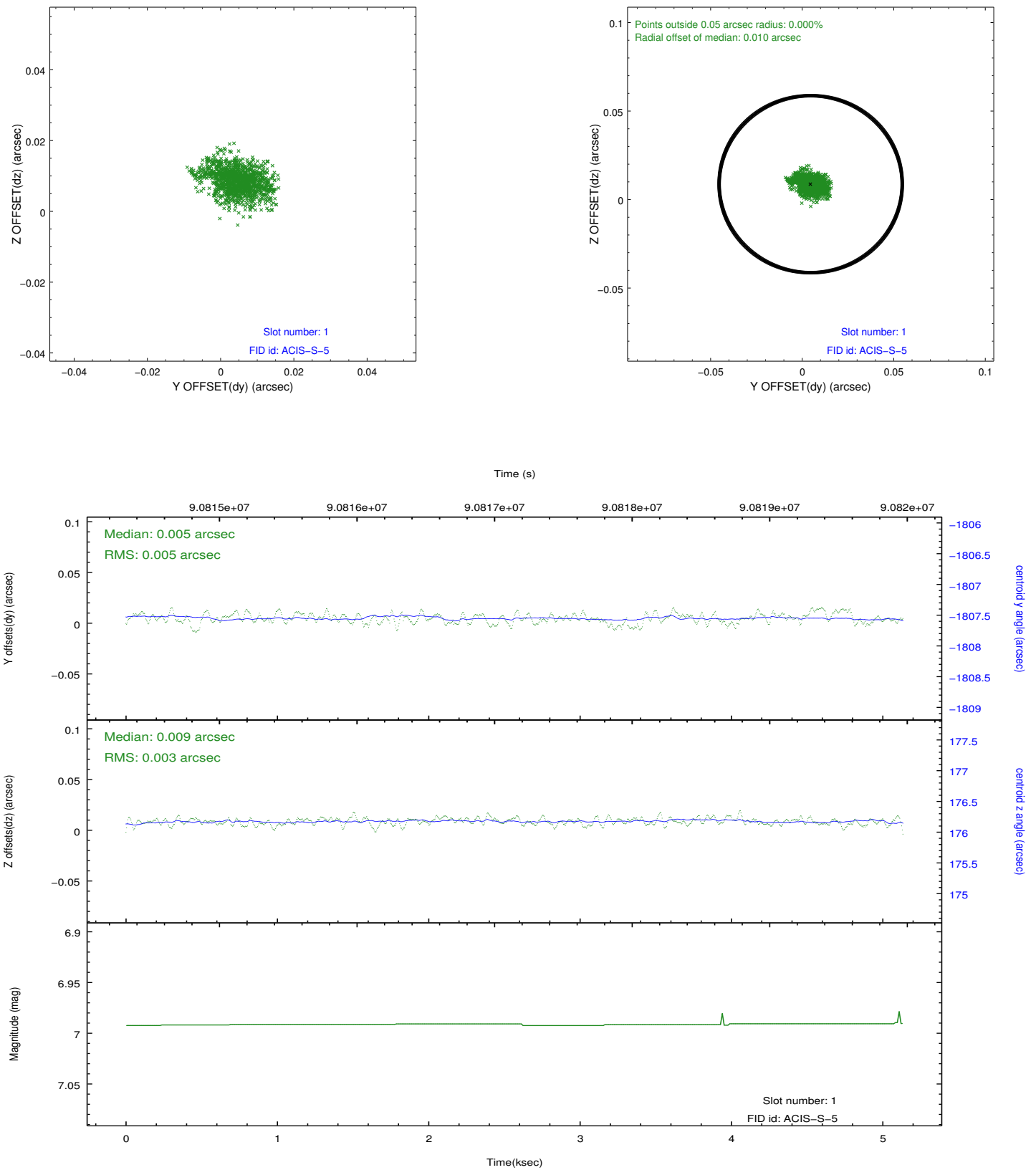


2.5 FID Slots

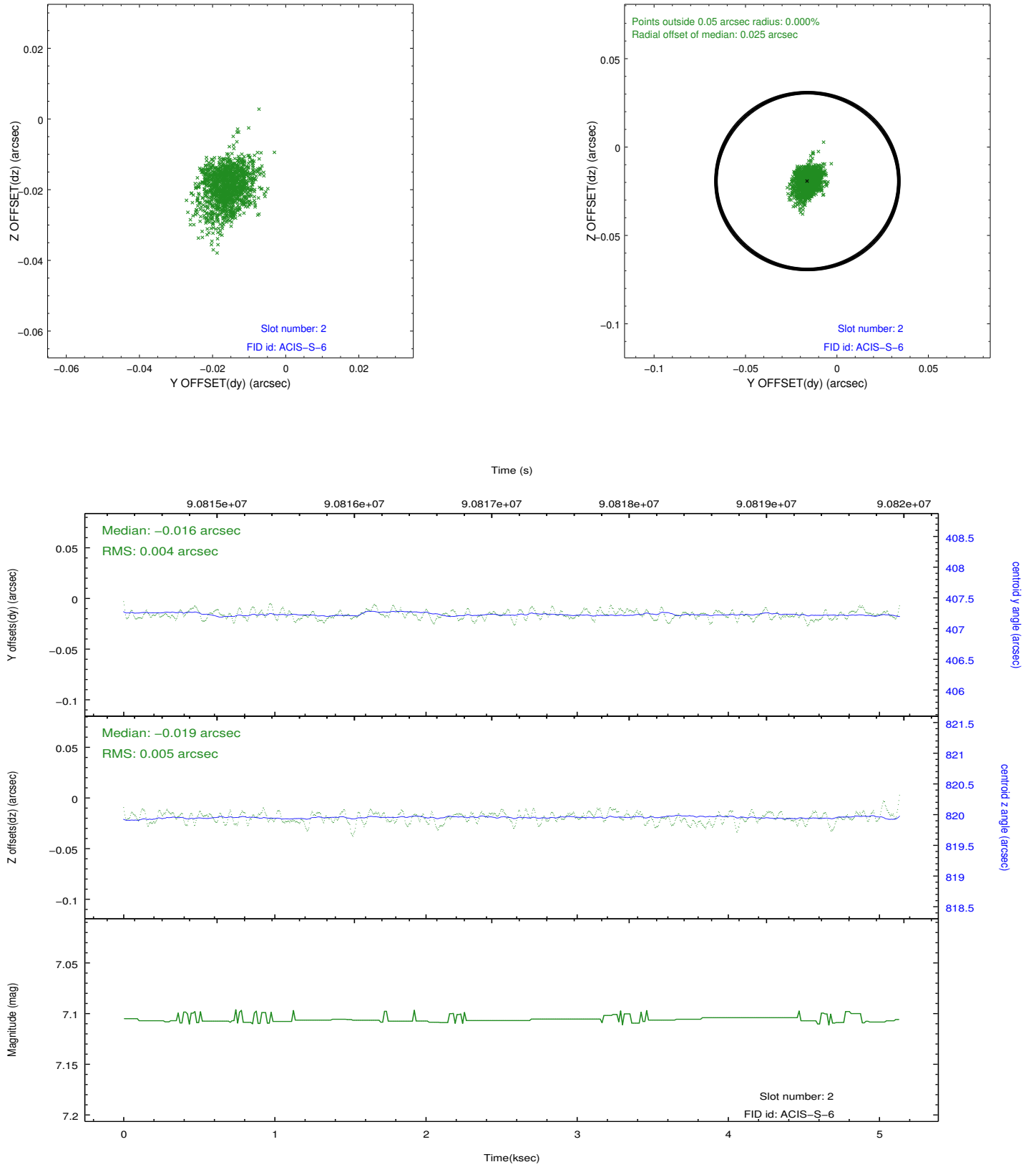
2.5.1 Slot 0



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)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.129

A.2 Comments

Window constraint not met, missed window by two days, but science not impacted. CDO states that it does not need to be reobserved. Window: Nov 1 2000 12:00AM to Nov 14 2000 12:00AM actual: Nov 17 2000