

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1581 - L2 Version 3
Chandra X-Ray Center

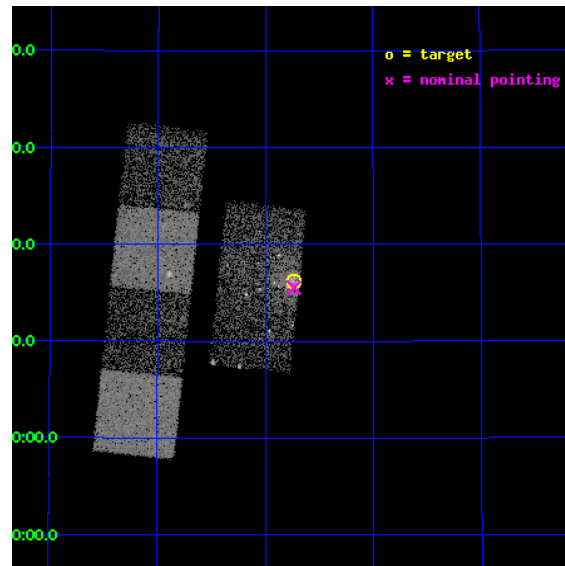
L2 Processing Date : Sep 4 2012

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1 Front

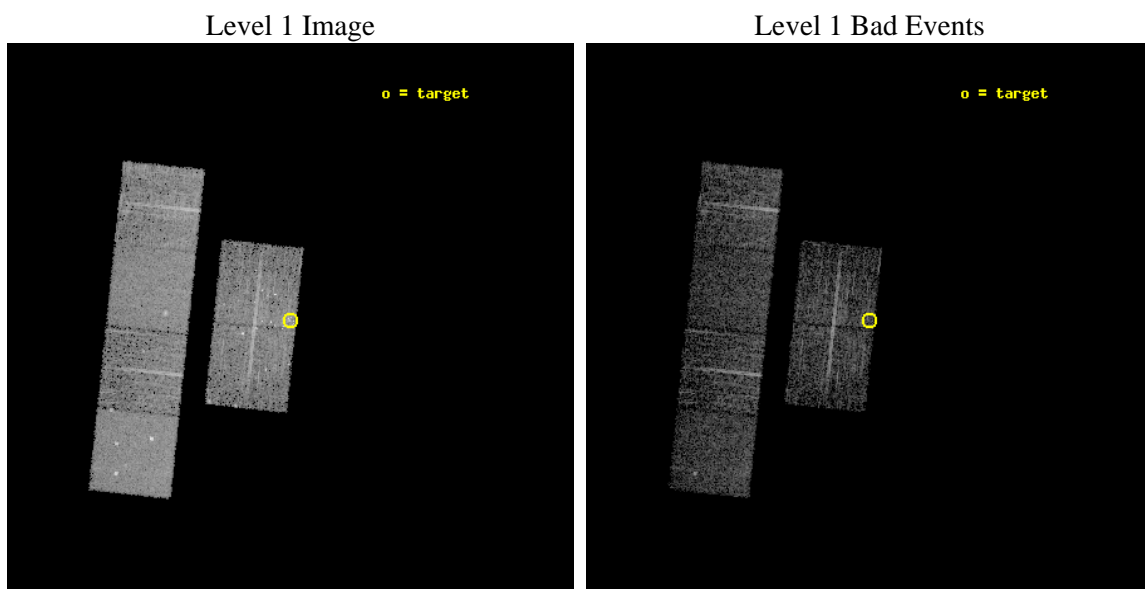
seq_num	600138	Sequence number
obs_id	1581	Observation id
title	MONITORING THE M31 NUCLEAR REGION	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31 NUCLEUS/TRANS	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.68382458814	Nominal RA [deg]
dec_nom	41.258883513741	Nominal Dec [deg]
roll_nom	275.99613667776	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4457.5451596826	Sum of GTIs [s]
livetime	4401.1010388593	Livetime [s]
ontime2	4457.5041196793	Sum of GTIs [s]
ontime3	4457.5451596826	Sum of GTIs [s]
ontime5	4457.586199671	Sum of GTIs [s]
ontime6	4457.463079676	Sum of GTIs [s]
ontime7	4457.6000041366	Sum of GTIs [s]
ontime8	4457.6000041366	Sum of GTIs [s]
l2events	48362	Number of level 2 events



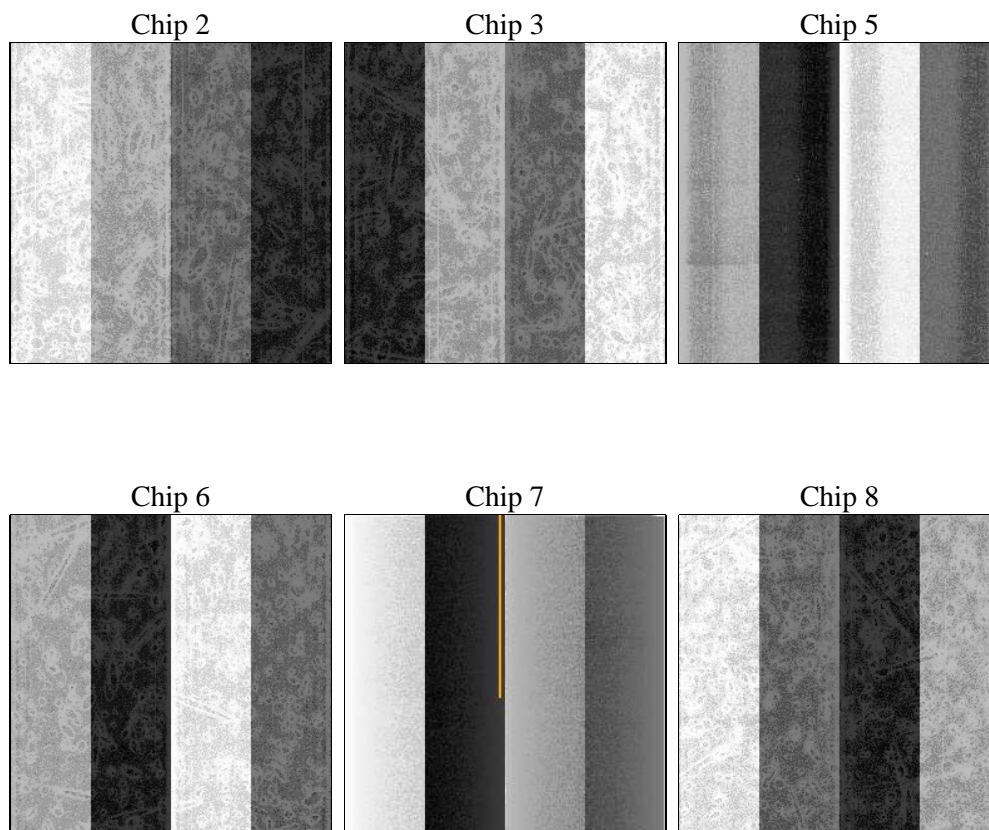
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4505.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4457.5451596826	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	4457.5041196793	Sum of GTIs [s]
date	2012-09-04T06:29:35	Date and time of file creation	ontime3	4457.5451596826	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4457.586199671	Sum of GTIs [s]
			ontime6	4457.463079676	Sum of GTIs [s]
			ontime7	4457.6000041366	Sum of GTIs [s]
			ontime8	4457.6000041366	Sum of GTIs [s]
			l1events	192703	Number of level 1 events

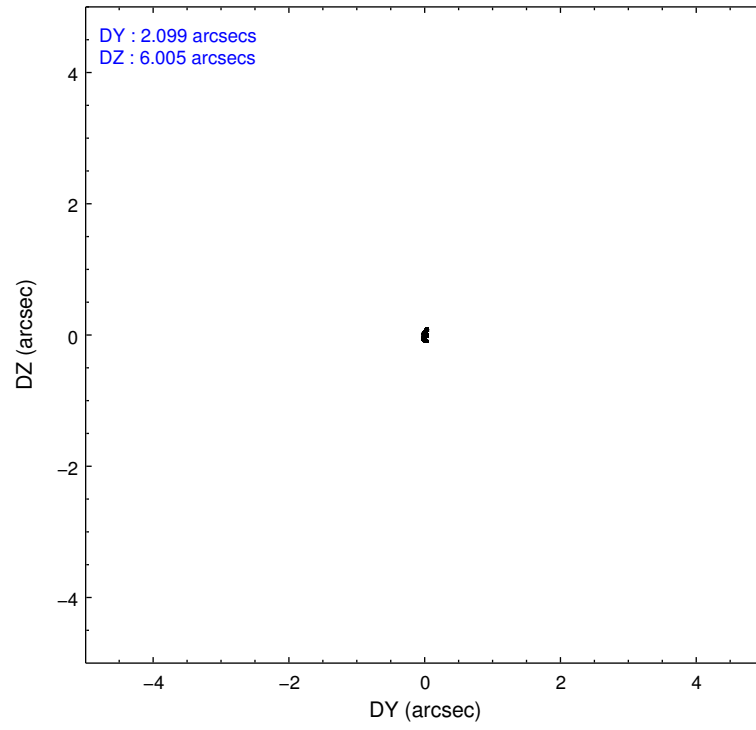
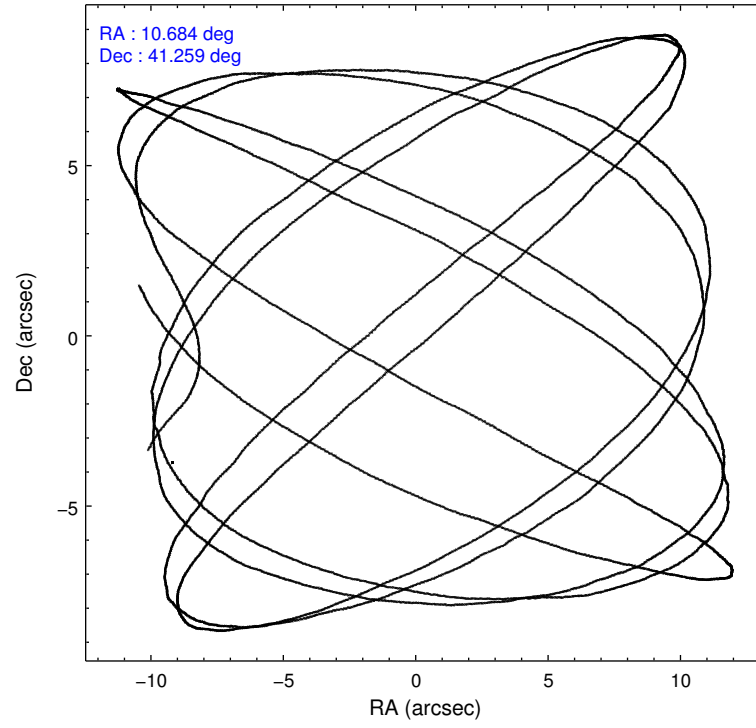
2.1.4 Events

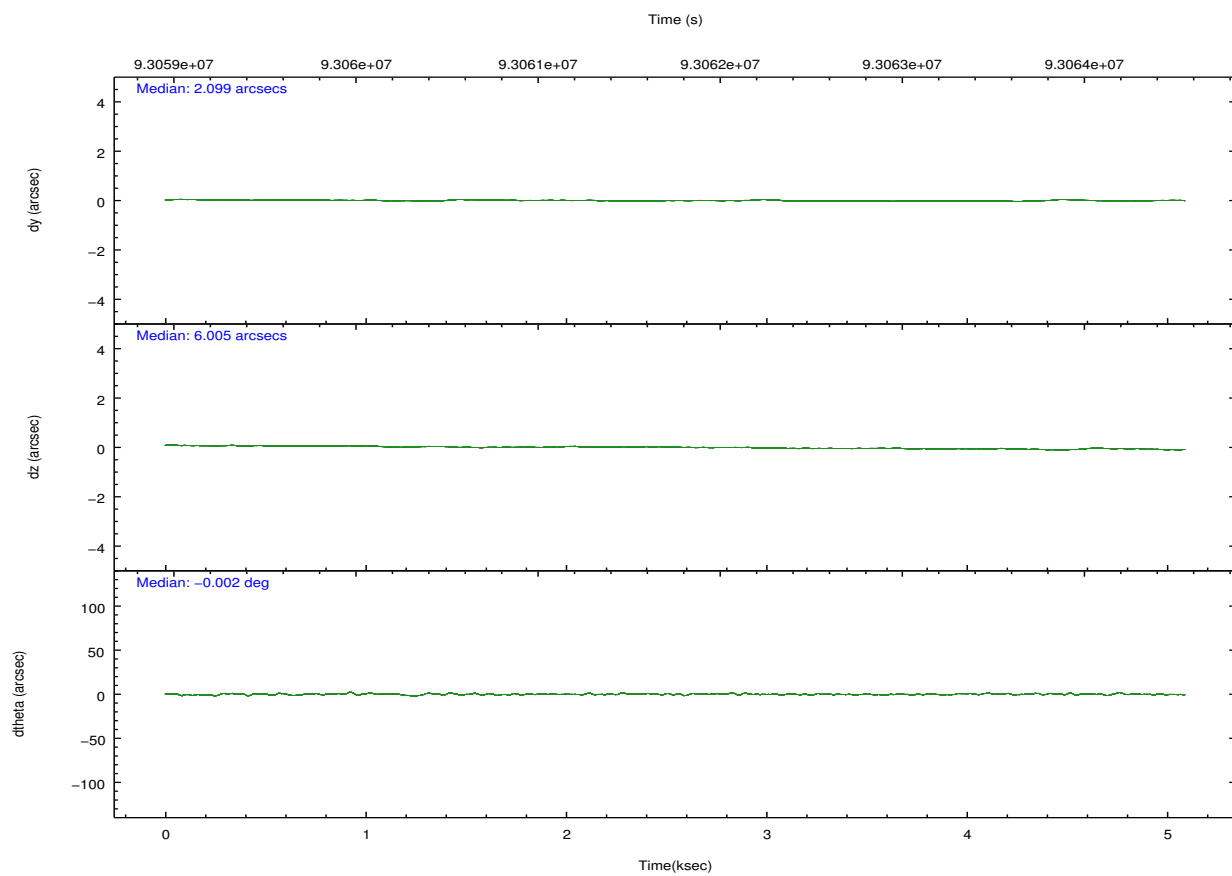
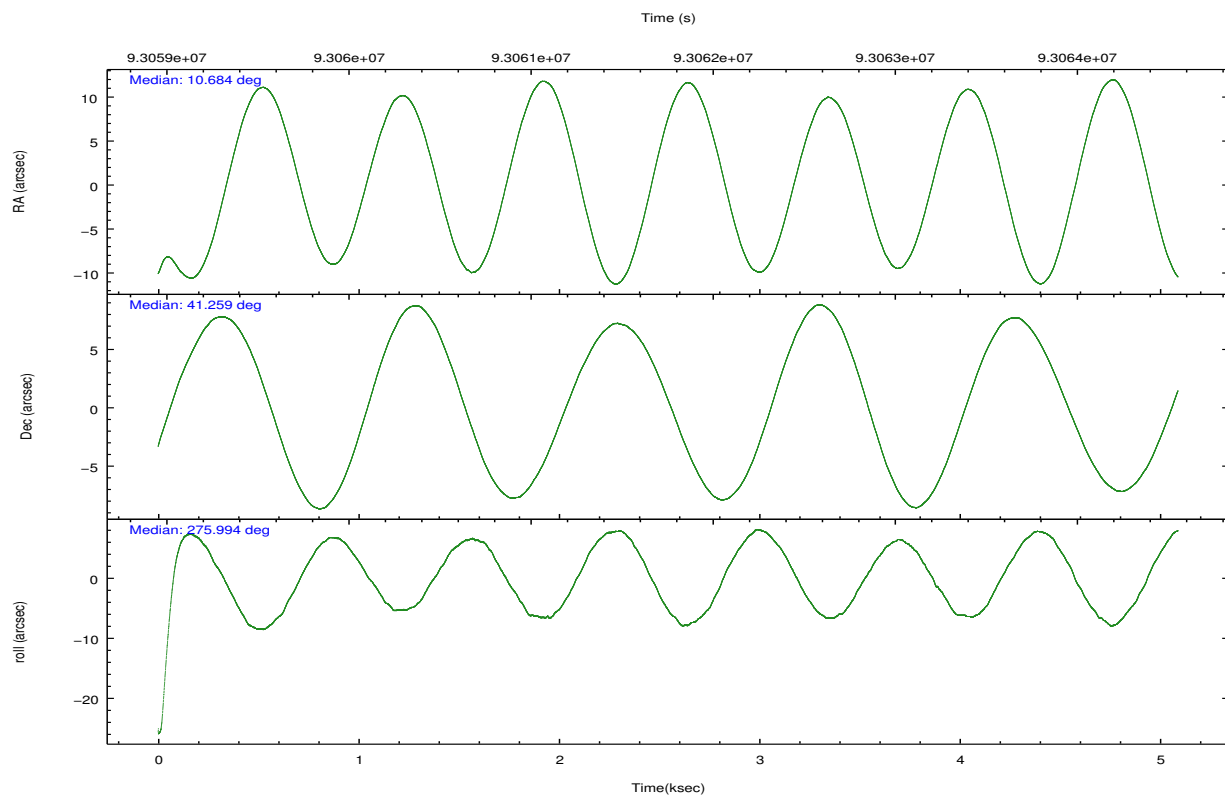
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	27330	31261	38106	26078	34413	35515	grade 0 events	3171	5812	2965	1340	1553	2274
rejected events	22165	22881	19786	22951	19696	28626		11%	18%	7%	5%	4%	6%
rejected %	81%	73%	51%	88%	57%	80%	grade 1 events	20	82	42	21	35	18
								0%	0%	0%	0%	0%	0%
							grade 2 events	804	1074	5086	585	2986	1480
								2%	3%	13%	2%	8%	4%
							grade 3 events	369	437	714	304	1340	826
								1%	1%	1%	1%	3%	2%
							grade 4 events	294	405	698	302	1304	761
								1%	1%	1%	1%	3%	2%
							grade 5 events	849	1016	2800	1104	3138	1408
								3%	3%	7%	4%	9%	3%
							grade 6 events	536	664	8891	600	7558	1560
								1%	2%	23%	2%	21%	4%
							grade 7 events	21287	21771	16910	21822	16499	27188
								77%	69%	44%	83%	47%	76%

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	10.662404	10.68382458814028	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.281149	41.25888351374121	Alternating exposures requested	N	N
[deg] Pointing Roll	275.801647	275.9961366777594	[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)	93059791.184000	93058631.863681			
Observation start date	2000-12-13T01:55:27	2000-12-13T01:37:11			
[s] Observation end time (MET)	93064296.184000	93065283.60143501			
Observation end date	2000-12-13T03:10:32	2000-12-13T03:28:03			
Read mode	TIMED	TIMED			

2.3 Aspect



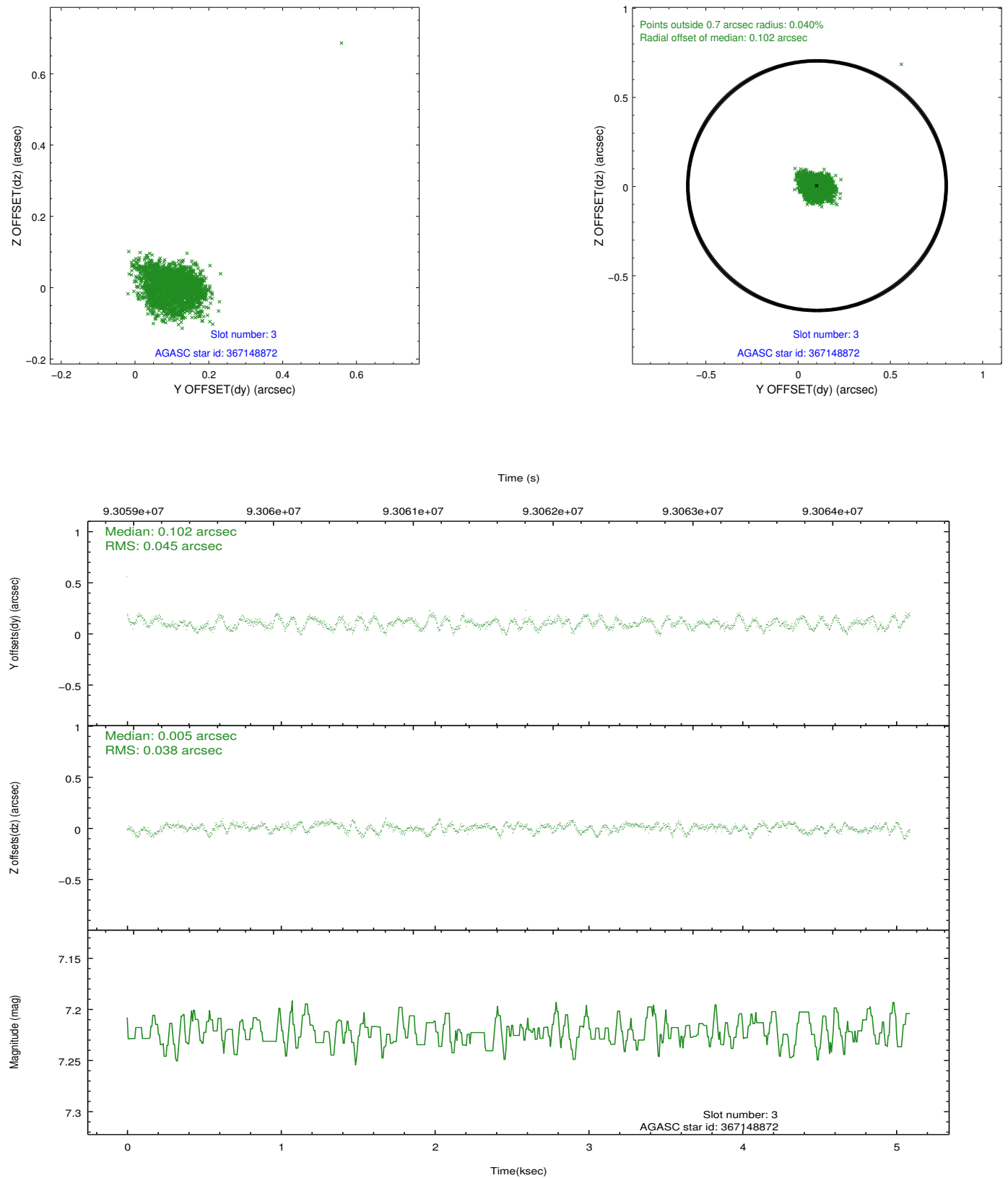


Slot Statistics

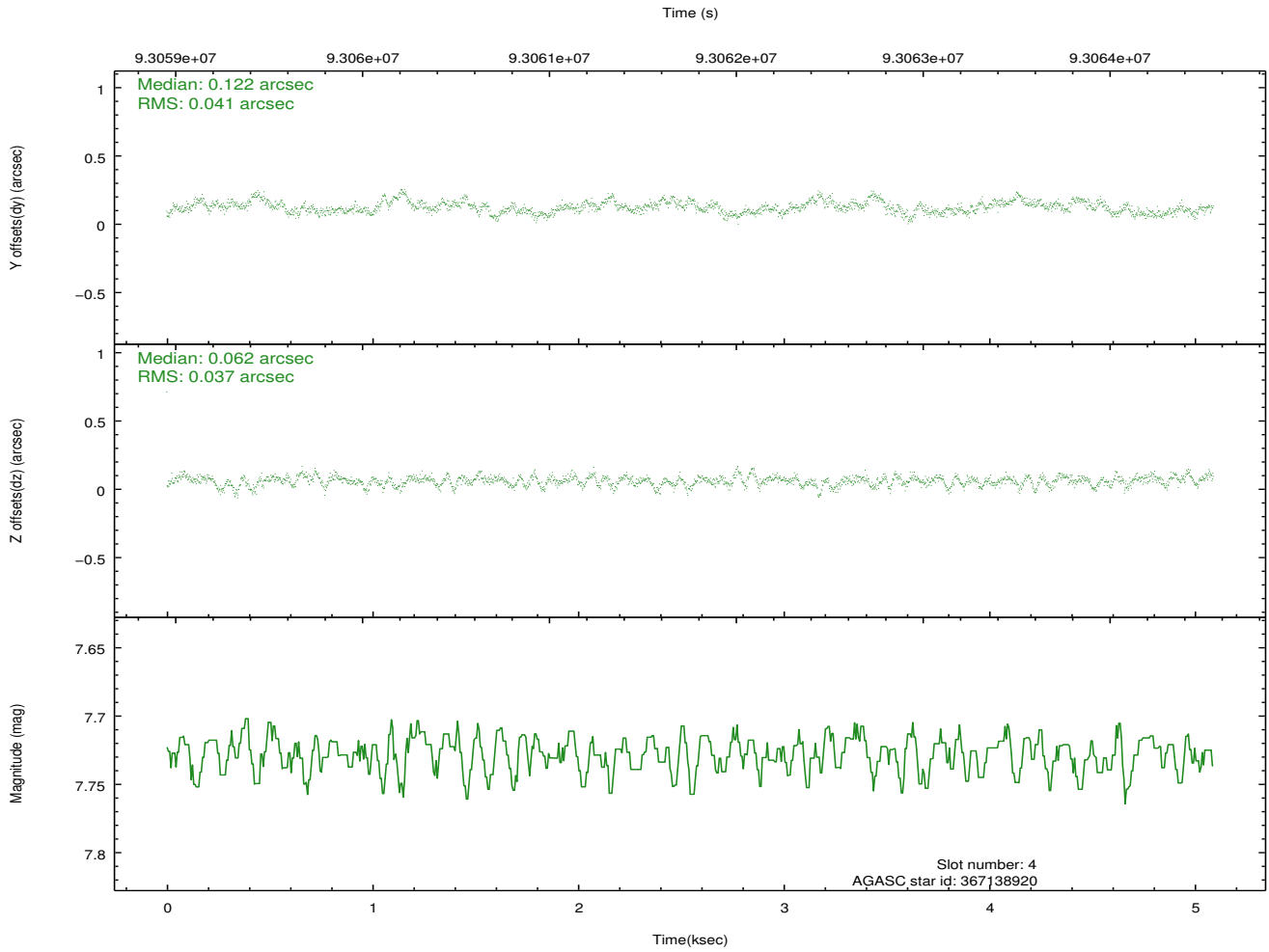
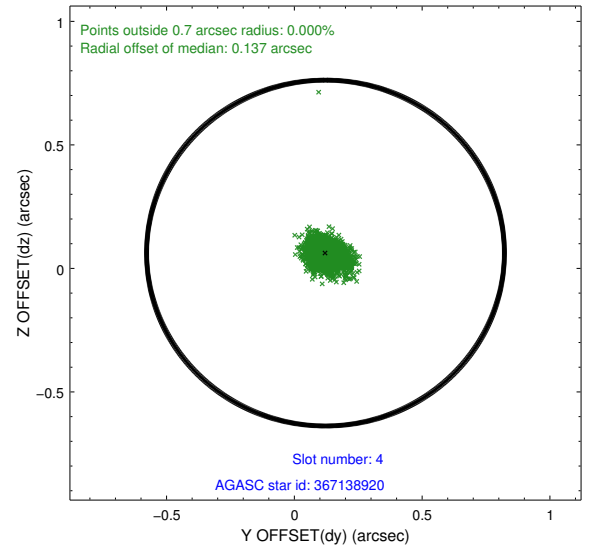
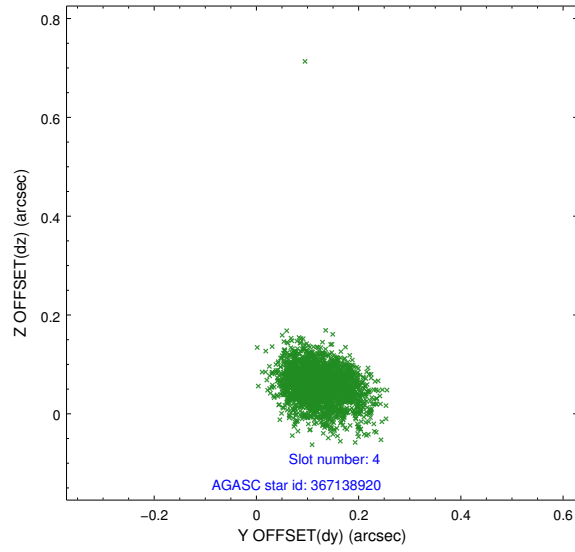
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1242	-0.034	-0.067	0.010	0.018	0.000000	0.000000	-756.49	-835.80
1	FID	ACIS-I-4	7.18	1242	-0.016	0.046	0.006	0.010	0.000000	0.000000	2157.05	1069.90
2	FID	ACIS-I-5	7.23	1242	-0.051	0.090	0.010	0.016	0.000000	0.000000	-1808.80	1069.14
3	GUIDE	367148872	7.22	2483	0.102	0.005	0.062	0.095	10.505940	40.688258	2080.26	-641.27
4	GUIDE	367138920	7.73	2482	0.122	0.062	0.058	0.096	11.513485	40.808909	1915.68	2135.80
5	GUIDE	367674552	8.84	2483	-0.032	0.059	0.076	0.128	11.016238	41.570845	-942.31	1053.97
6	GUIDE	367663272	9.29	2483	-0.097	-0.084	0.082	0.133	10.656279	41.699429	-1500.06	135.41
7	GUIDE	367665472	9.47	2480	-0.095	-0.035	0.078	0.126	10.241611	41.730843	-1728.16	-961.51

2.4 Star Slots

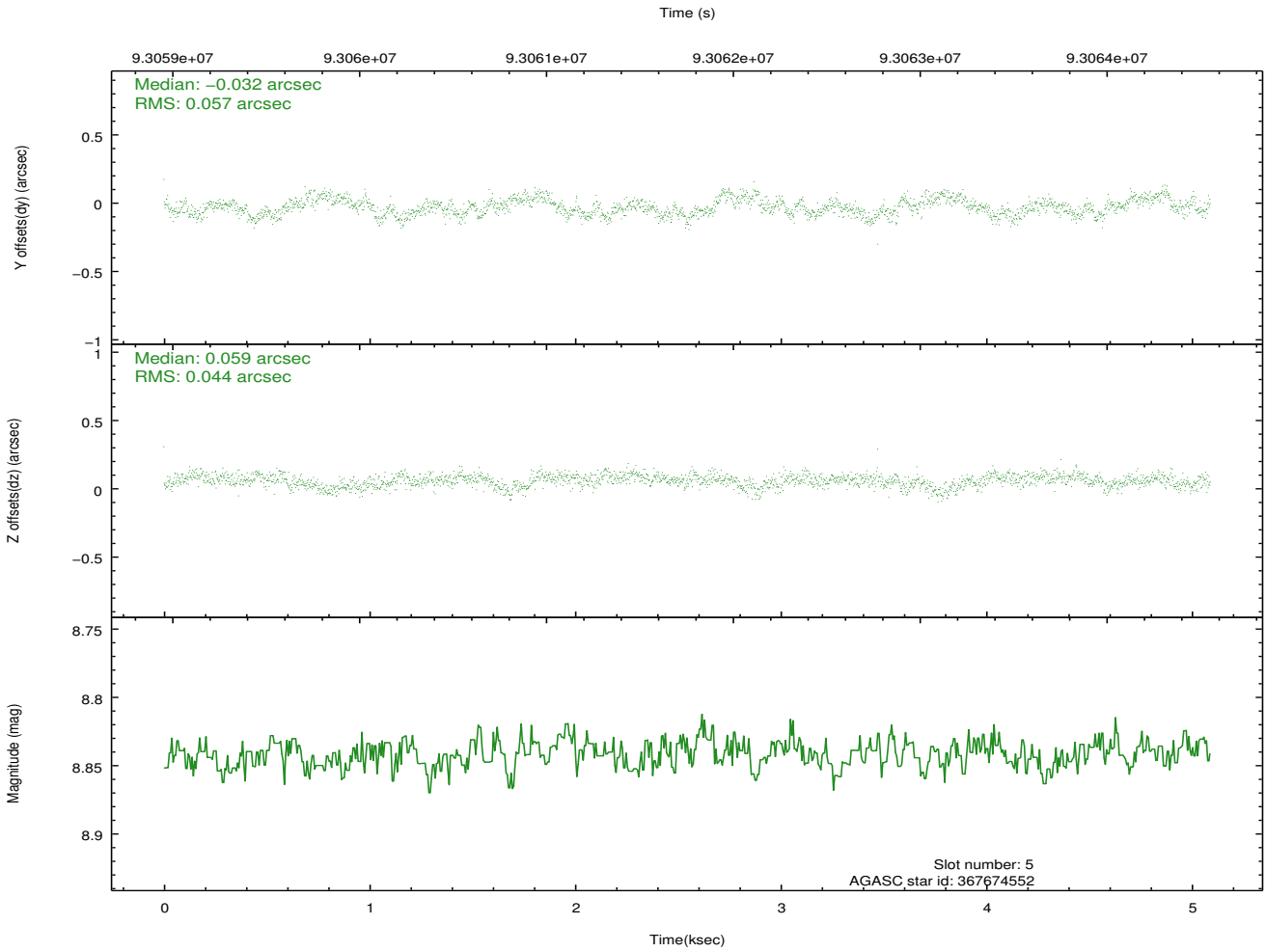
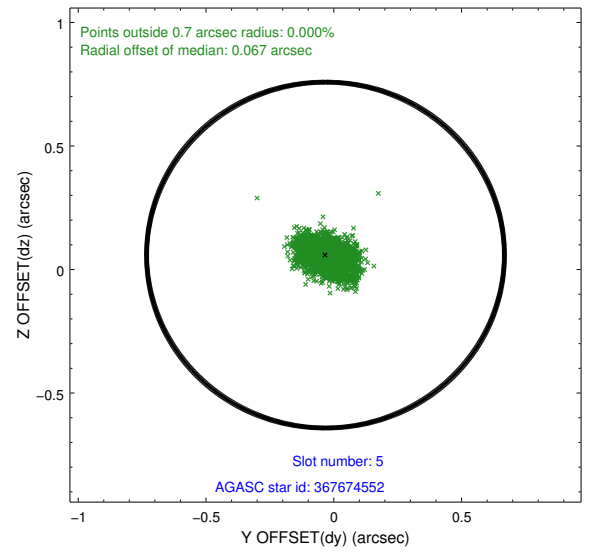
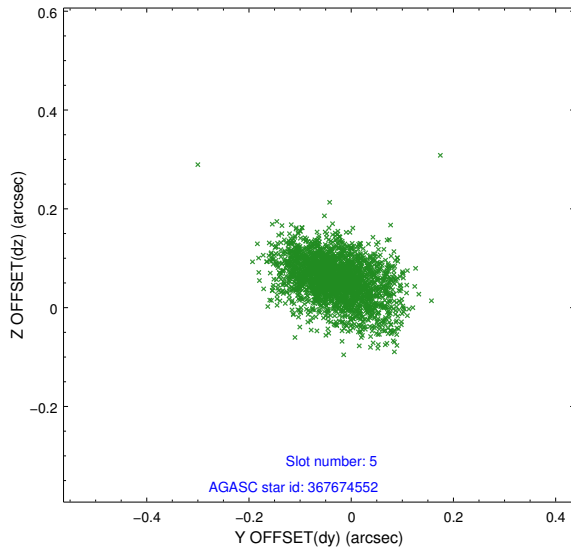
2.4.1 Slot 3



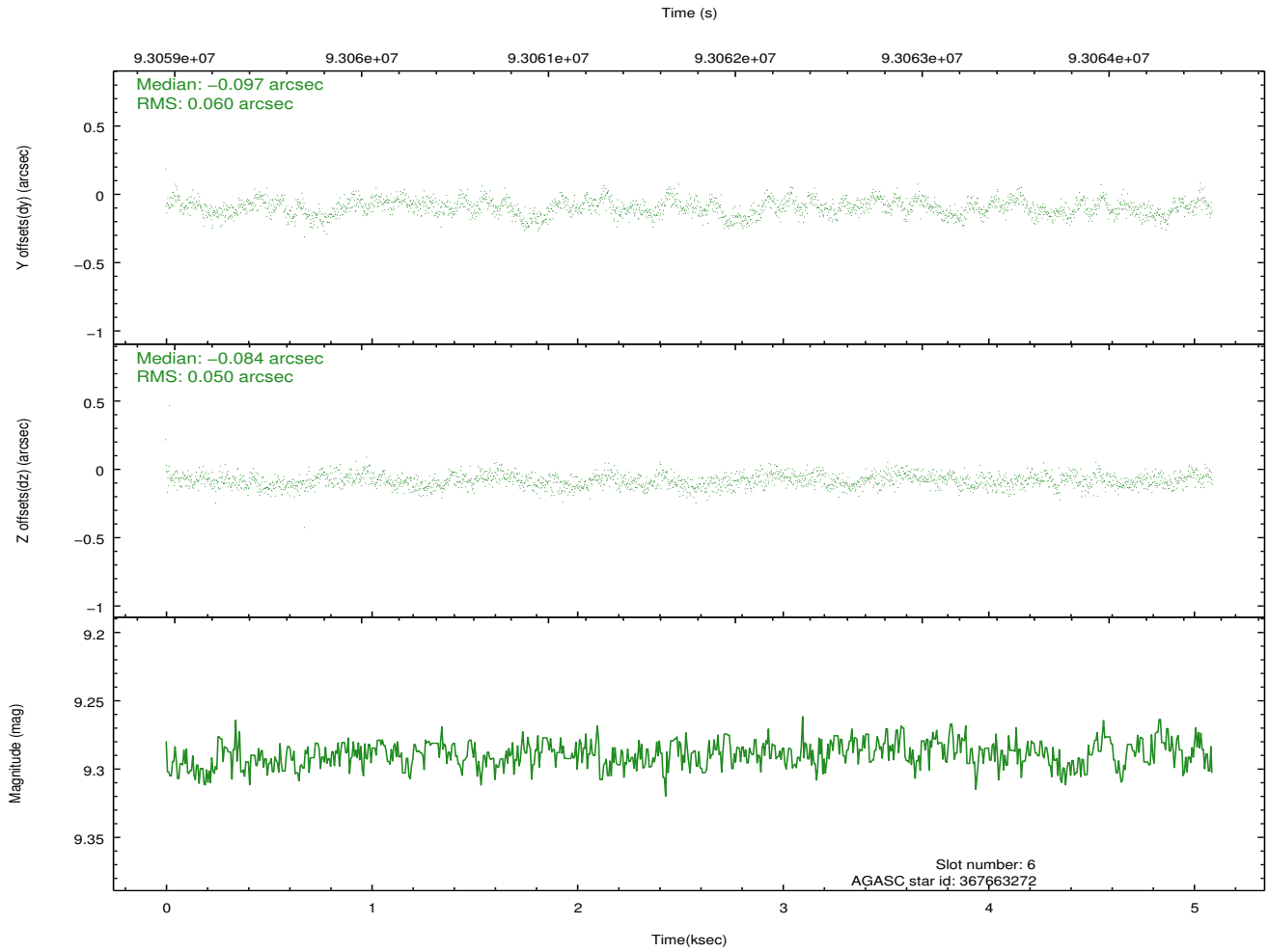
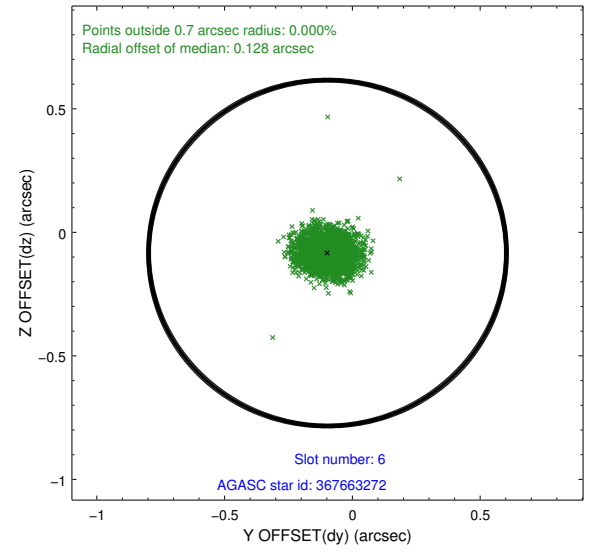
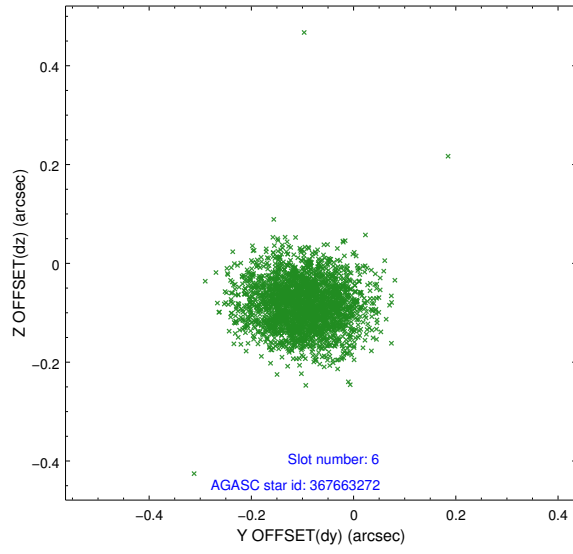
2.4.2 Slot 4



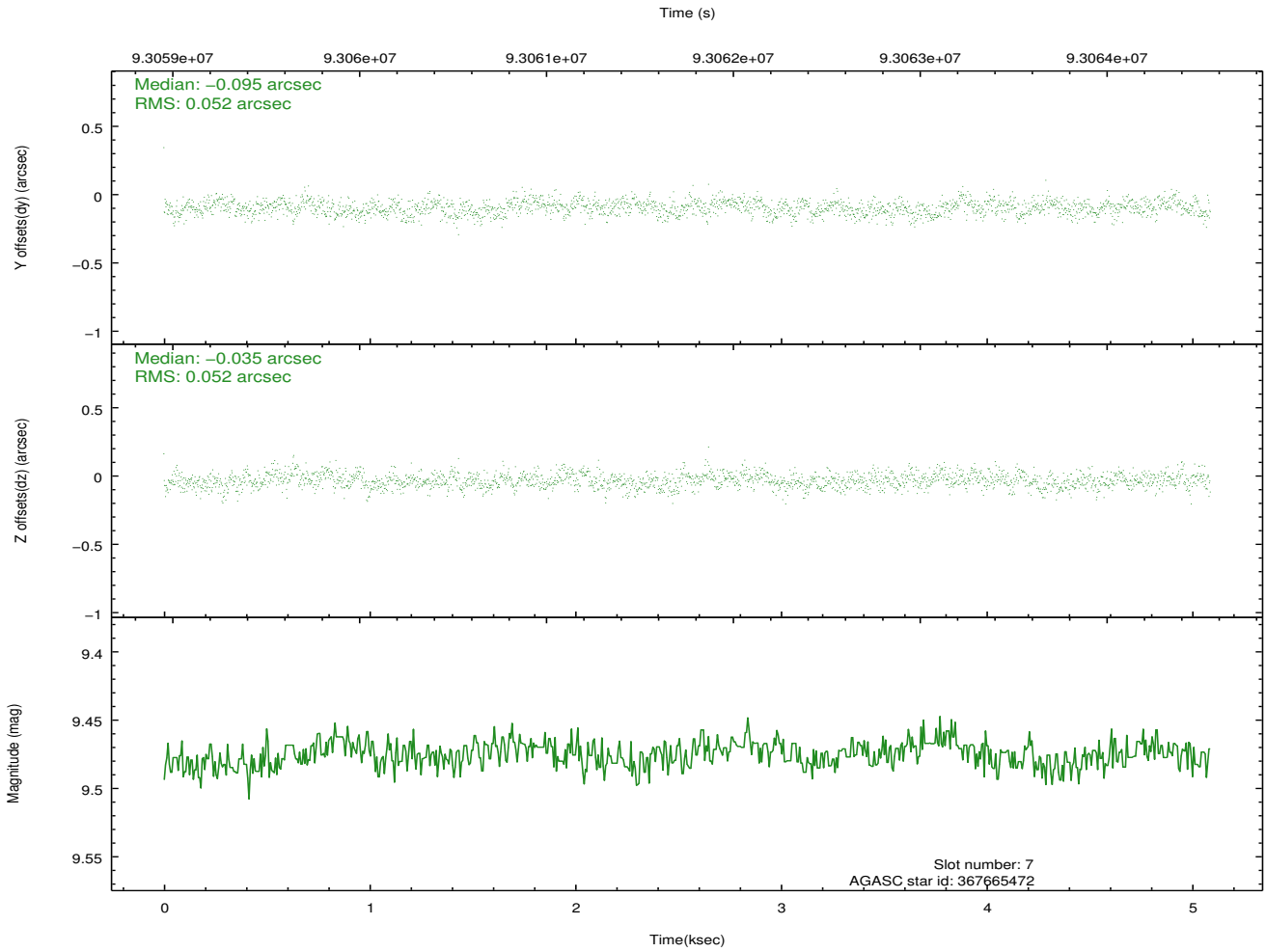
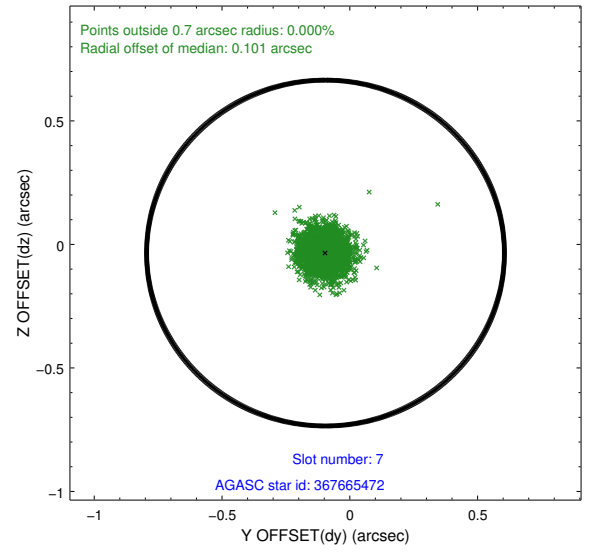
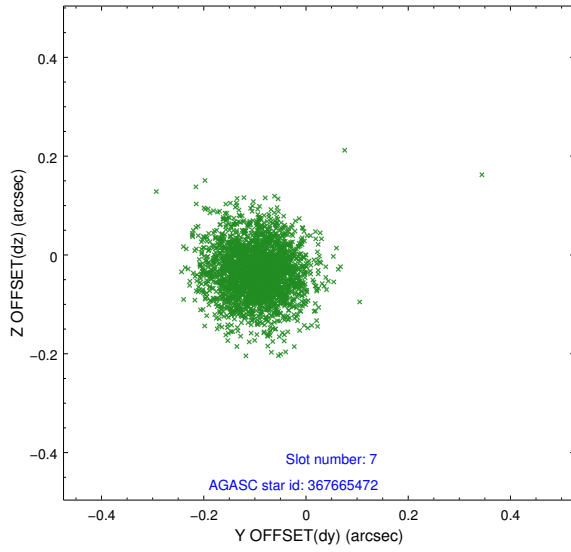
2.4.3 Slot 5



2.4.4 Slot 6

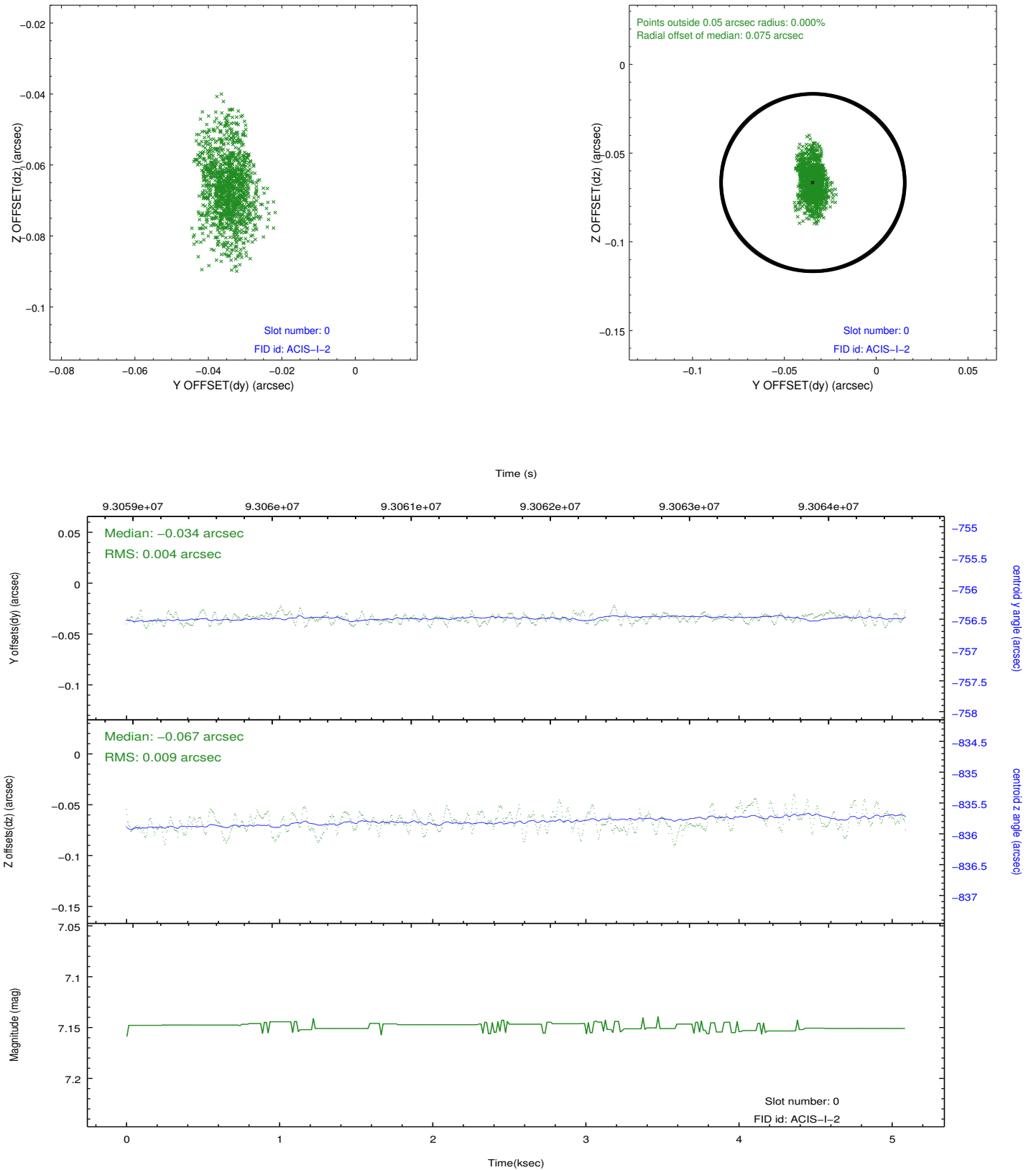


2.4.5 Slot 7

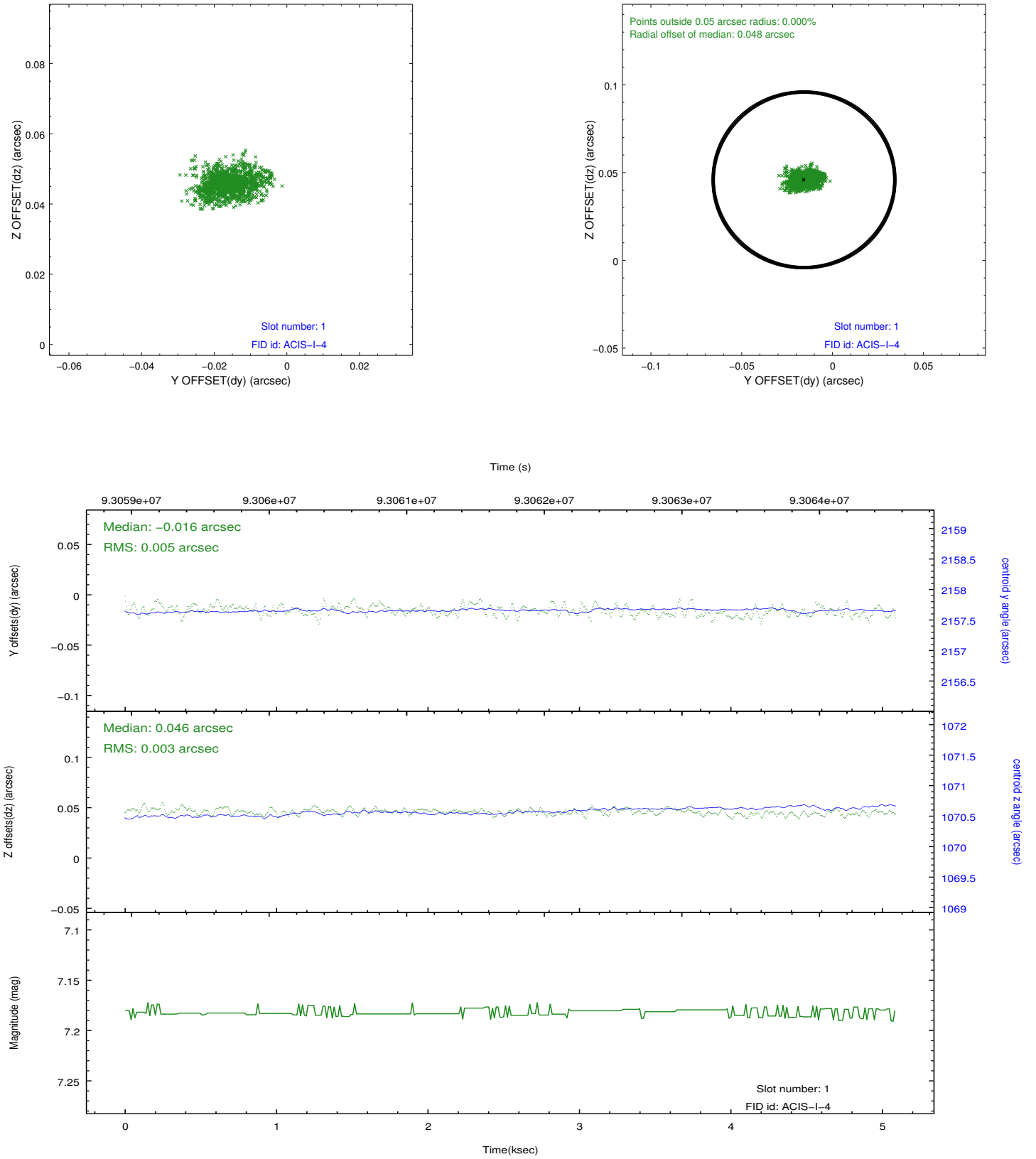


2.5 FID Slots

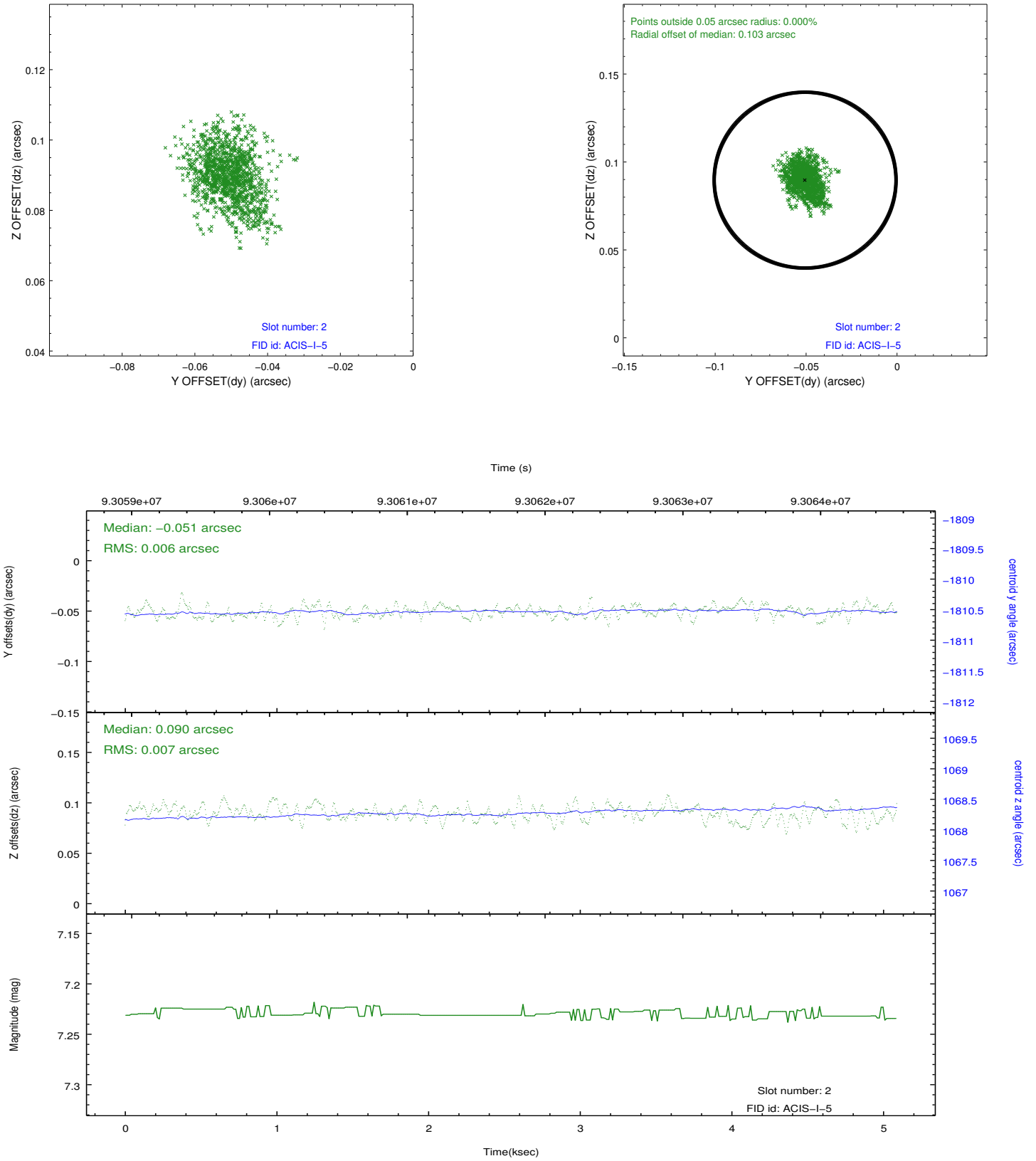
2.5.1 Slot 0



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)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.46

A.2 Comments