

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5941 - L2 Version 3
Chandra X-Ray Center

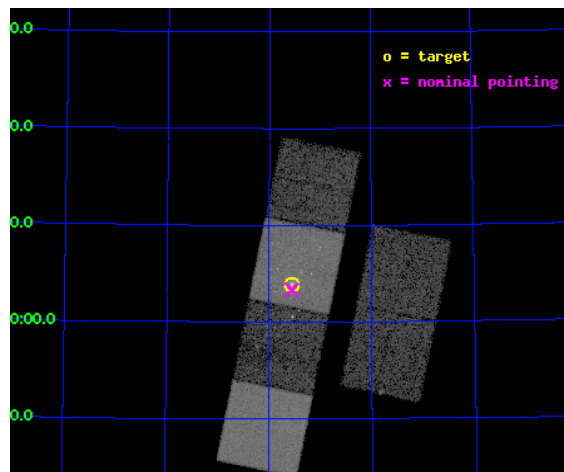
L2 Processing Date : Dec 24 2012

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

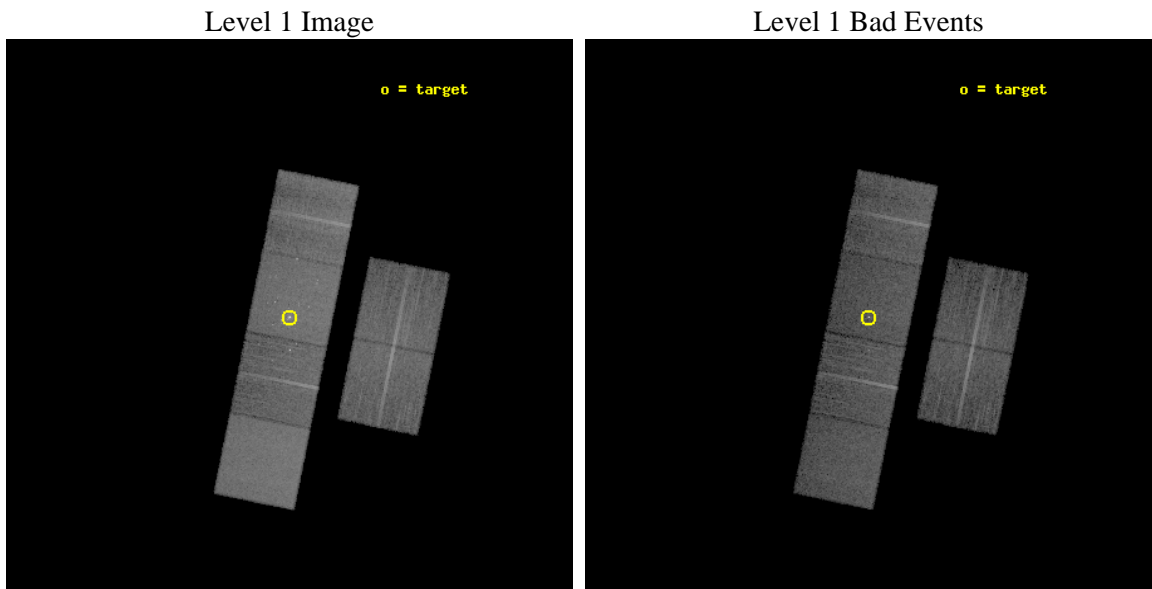
seq_num	600460	Sequence number
obs_id	5941	Observation id
title	An Unprecedented View of a Galaxy's Dynamic X-ray Source Population	
observer	Prof. David Pooley	Principal investigator
object	M81	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.888333	Observer's specified target RA [deg]
dec_targ	69.065306	Observer's specified target Dec [deg]
ra_nom	148.88905458496	Nominal RA [deg]
dec_nom	69.055603969648	Nominal Dec [deg]
roll_nom	281.4506799038	Nominal Roll [deg]
revision	3	Processing version of data
ontime	11958.122458339	Sum of GTIs [s]
livetime	11806.701511454	Livetime [s]
ontime2	11958.163498342	Sum of GTIs [s]
ontime3	11957.999338329	Sum of GTIs [s]
ontime5	11958.081418335	Sum of GTIs [s]
ontime6	11958.040378332	Sum of GTIs [s]
ontime7	11958.122458339	Sum of GTIs [s]
ontime8	11957.958298355	Sum of GTIs [s]
l2events	159530	Number of level 2 events



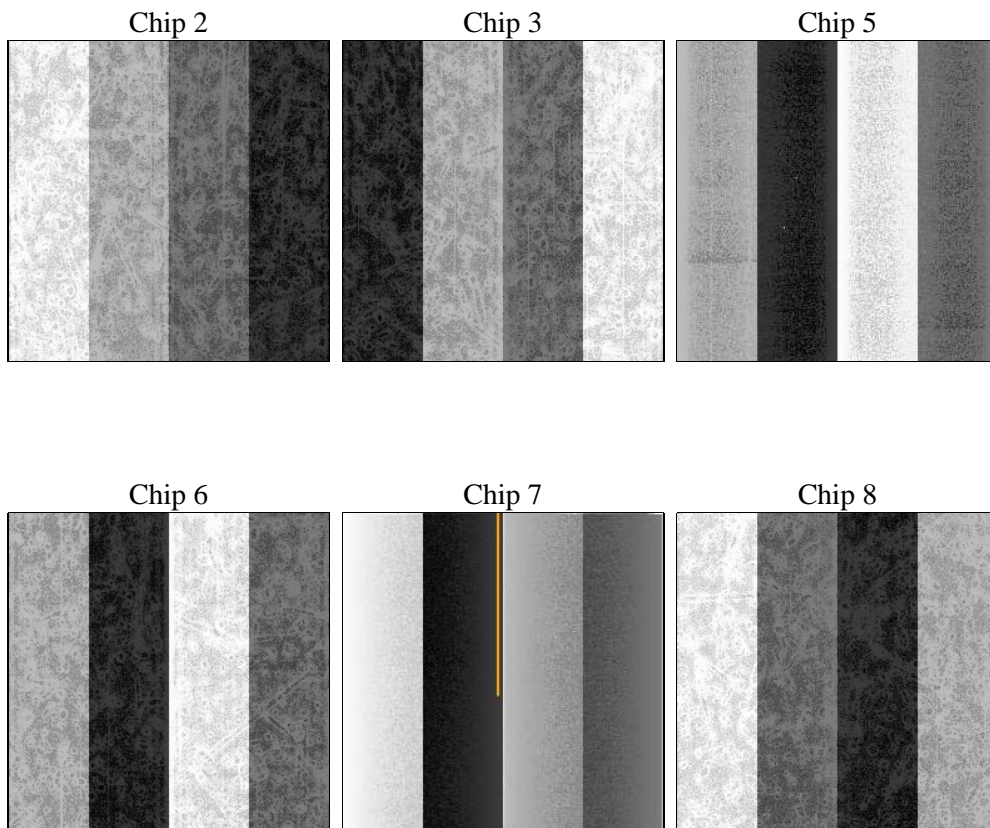
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	11958.122458339	Sum of GTIs [s]
caldbver	4.5.5	 	ontime2	11958.163498342	Sum of GTIs [s]
date	2012-12-24T13:40:55	Date and time of file creation	ontime3	11957.999338329	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	11958.081418335	Sum of GTIs [s]
			ontime6	11958.040378332	Sum of GTIs [s]
			ontime7	11958.122458339	Sum of GTIs [s]
			ontime8	11957.958298355	Sum of GTIs [s]
			l1events	666990	Number of level 1 events

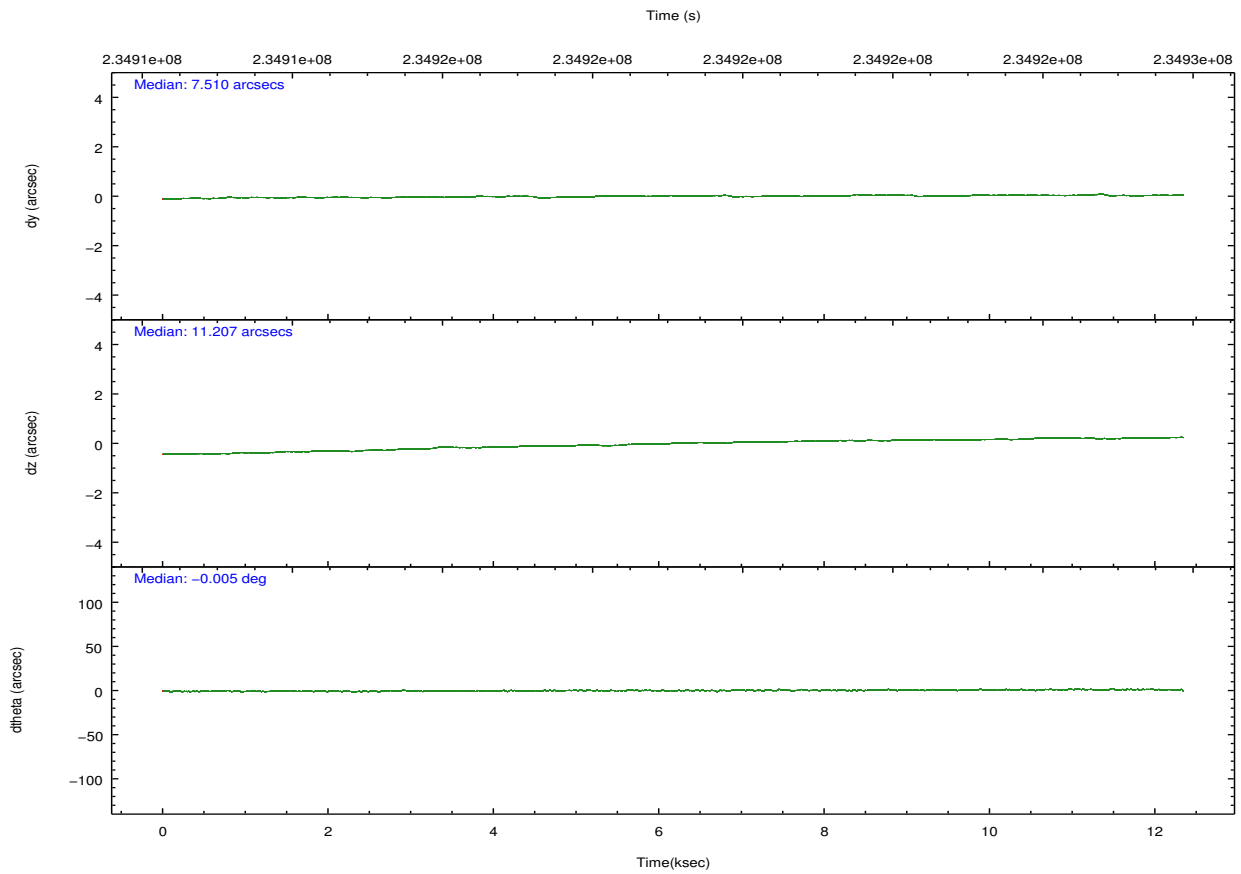
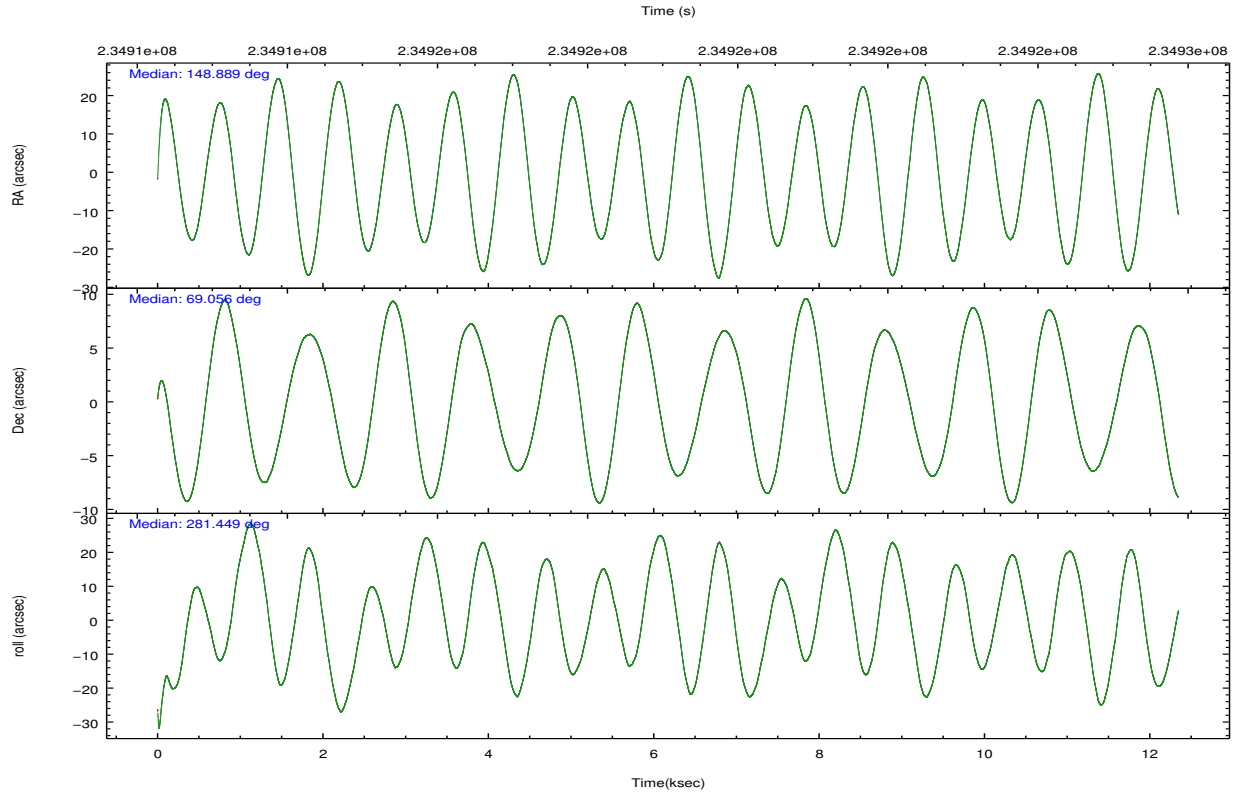
2.1.4 Events

	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	93988	88590	135900	94623	137063	116826	grade 0 events	5064	4699	3369	5874	6998	7714
rejected events	82559	77915	75934	81536	76500	91455		5%	5%	2%	6%	5%	6%
rejected %	87%	87%	55%	86%	55%	78%	grade 1 events	45	67	178	86	199	86
								0%	0%	0%	0%	0%	0%
							grade 2 events	2328	2057	18349	2609	12550	5764
								2%	2%	13%	2%	9%	4%
							grade 3 events	1115	1014	2333	1156	5402	2644
								1%	1%	1%	1%	3%	2%
							grade 4 events	1028	1007	2144	1121	5393	2434
								1%	1%	1%	1%	3%	2%
							grade 5 events	3780	4107	9601	4333	12630	5625
								4%	4%	7%	4%	9%	4%
							grade 6 events	1896	1901	33791	2329	30231	6843
								2%	2%	24%	2%	22%	5%
							grade 7 events	78732	73738	66135	77115	63660	85716
								83%	83%	48%	81%	46%	73%

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	148.837728	148.8890545849568	Subarray requested	NONE	NONE
[deg] Pointing Dec	69.075789	69.05560396964772	Alternating exposures requested	N	N
[deg] Pointing Roll	281.342023	281.4506799037957	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	234913243.184000	234912194.68406			
Observation start date	2005-06-11T21:39:39	2005-06-11T21:23:14			
[s] Observation end time (MET)	234925243.184000	234926691.77223			
Observation end date	2005-06-12T00:59:39	2005-06-12T01:24:51			
Read mode	TIMED	TIMED			

2.3 Aspect

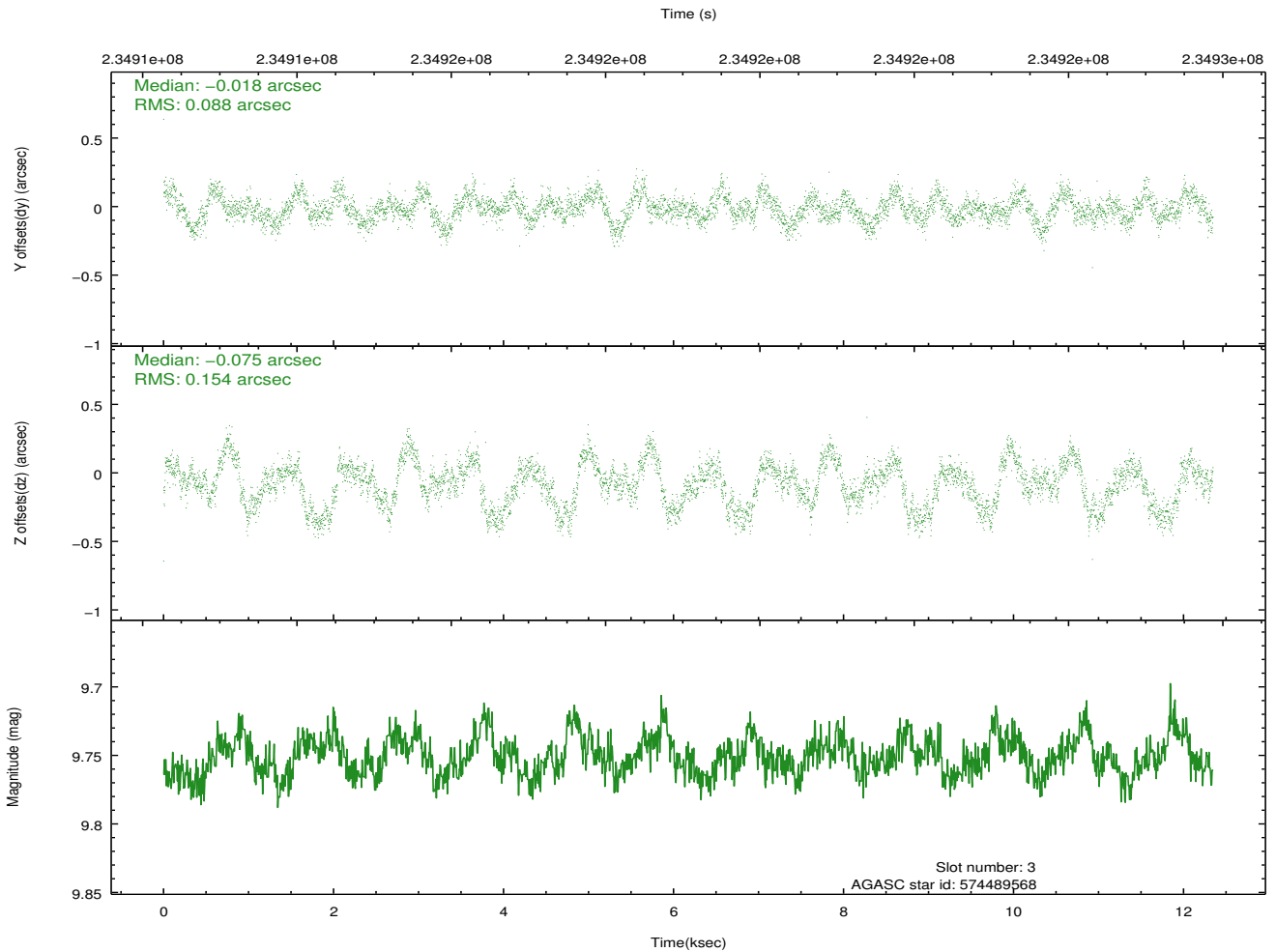
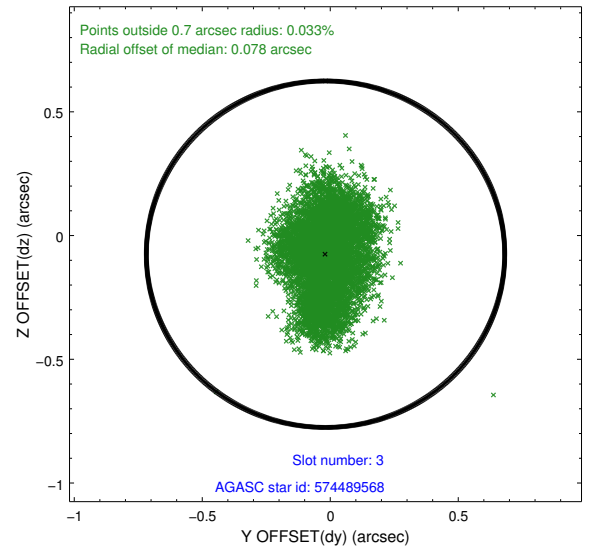
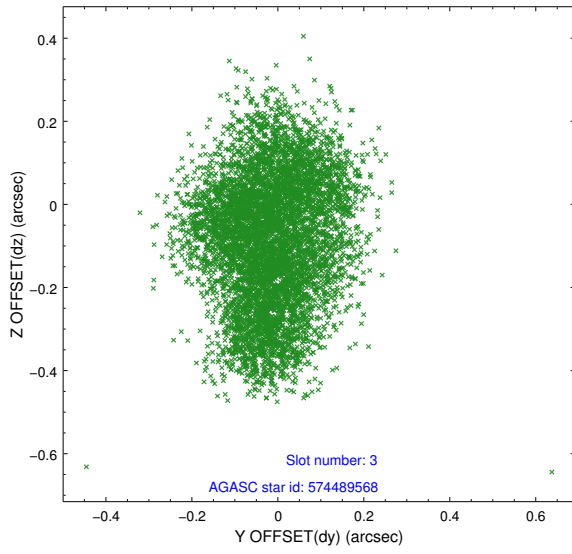


Slot Statistics

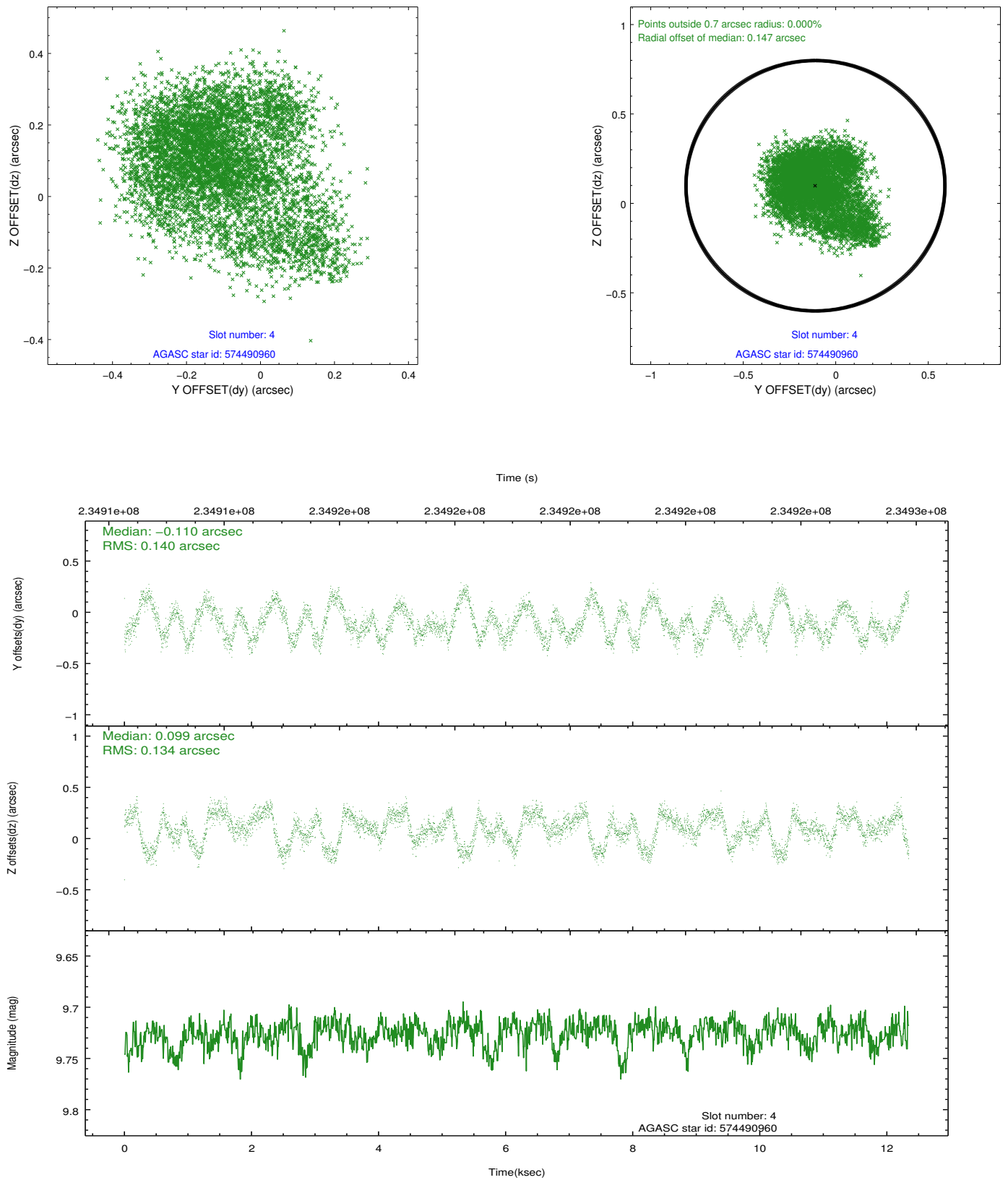
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	3012	-0.038	-0.019	0.008	0.013	0.000000	0.000000	-760.27	-1732.47
1	FID	ACIS-S-4	7.20	3012	0.095	0.024	0.006	0.010	0.000000	0.000000	2152.92	175.69
2	FID	ACIS-S-5	7.23	3011	-0.087	0.004	0.007	0.012	0.000000	0.000000	-1812.68	169.73
3	GUIDE	574489568	9.75	6019	-0.018	-0.075	0.191	0.299	147.223974	69.438157	-1706.26	-1738.60
4	GUIDE	574490960	9.73	6017	-0.110	0.099	0.209	0.339	148.185918	69.658768	-2222.29	-386.50
5	GUIDE	574491712	9.93	6015	-0.122	-0.066	0.117	0.189	147.262590	69.570889	-2161.71	-1584.96
6	GUIDE	574497600	10.47	5907	0.123	-0.085	0.184	0.294	147.824120	68.451903	1927.85	-1753.98
7	GUIDE	574496360	9.47	6017	0.117	0.147	0.120	0.183	150.806604	68.529829	2397.22	2165.02

2.4 Star Slots

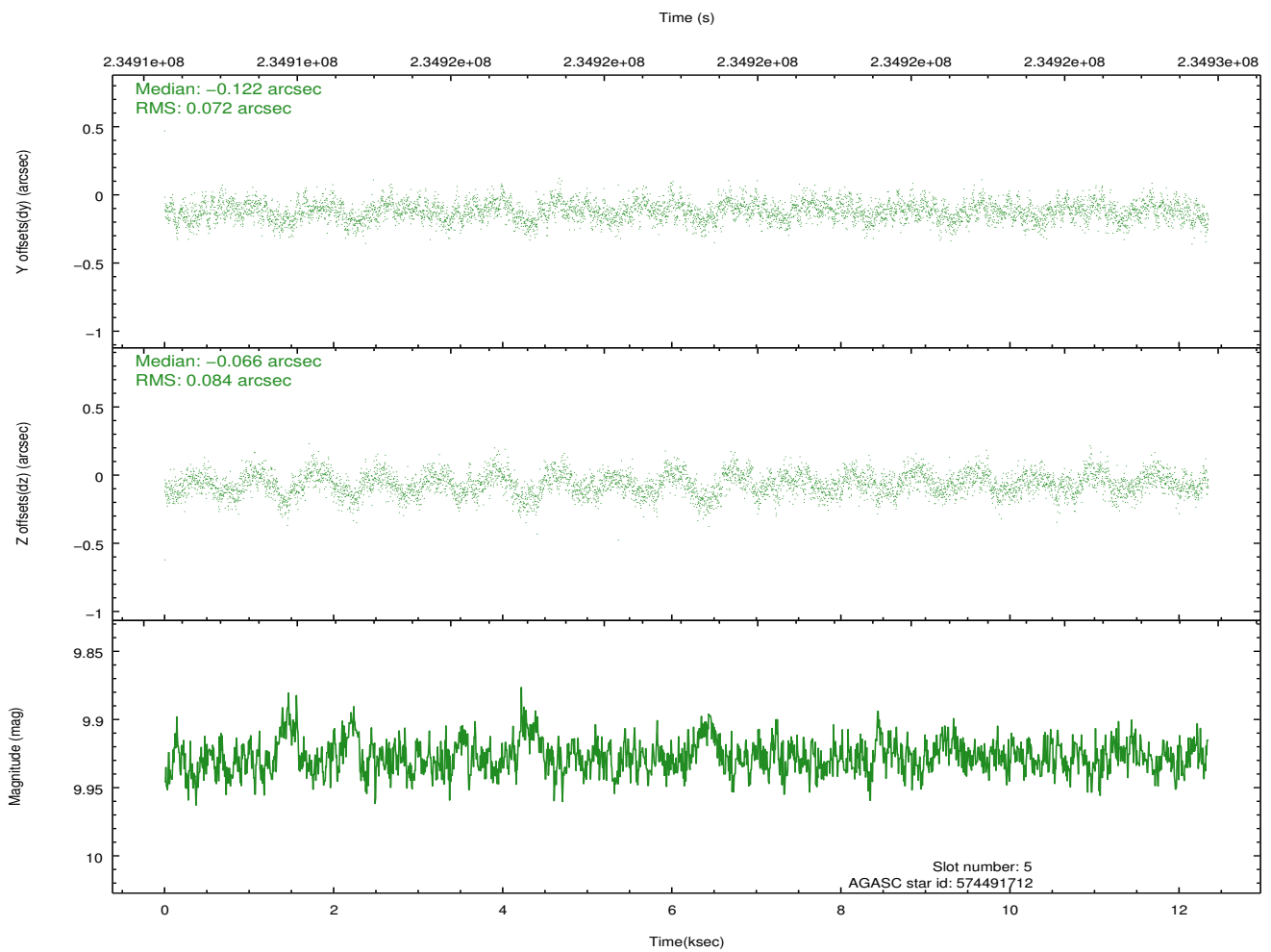
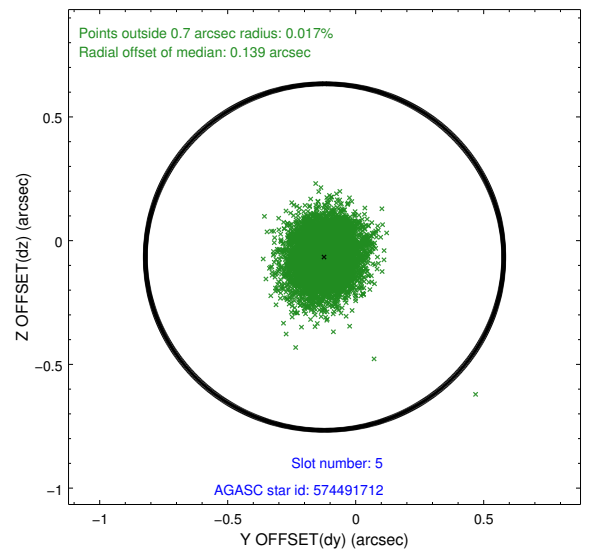
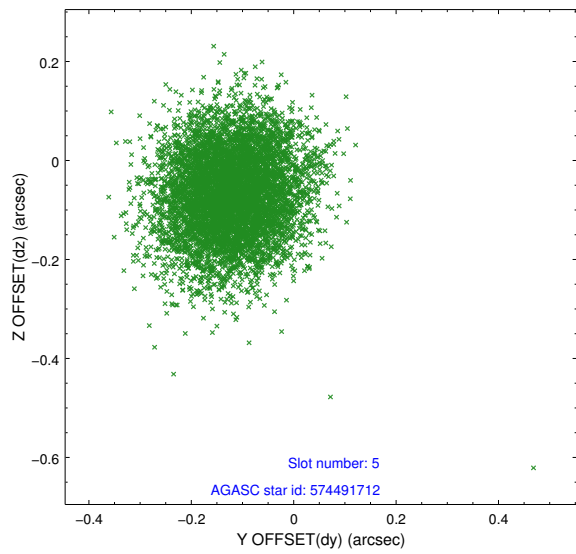
2.4.1 Slot 3



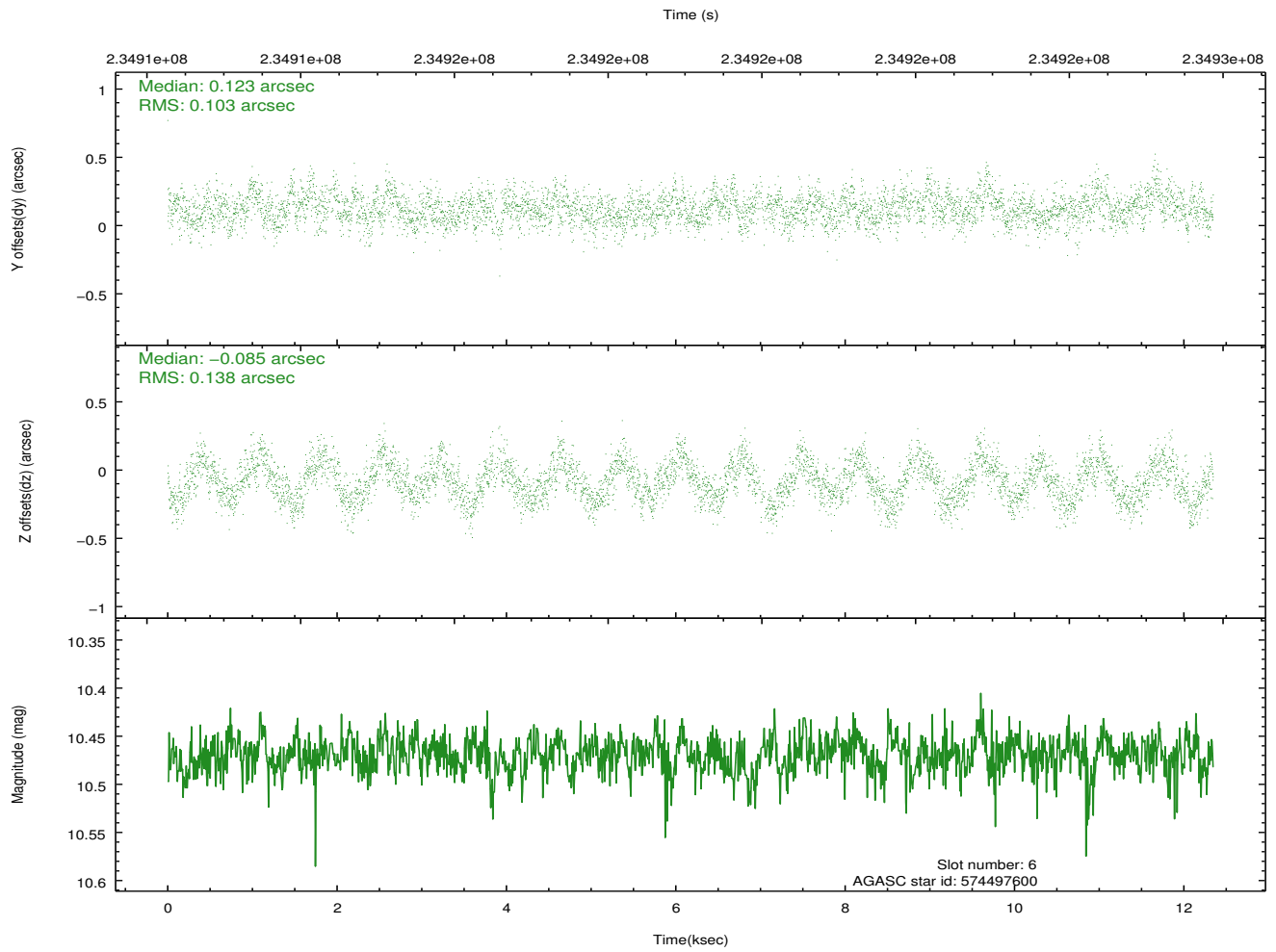
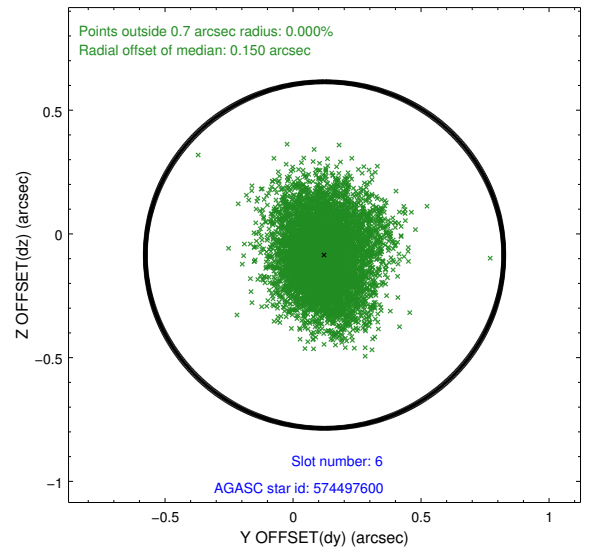
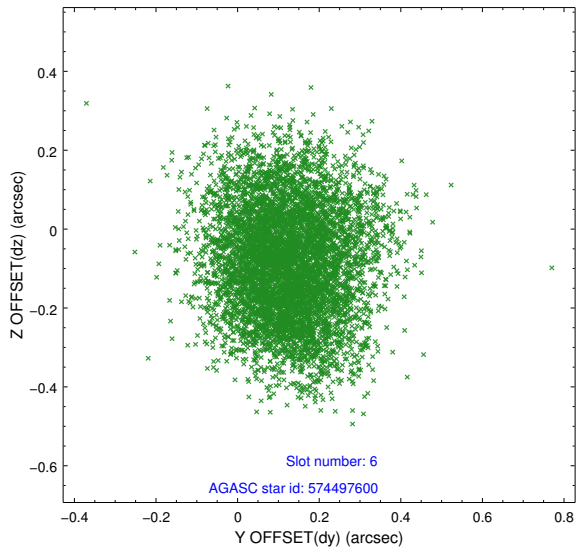
2.4.2 Slot 4



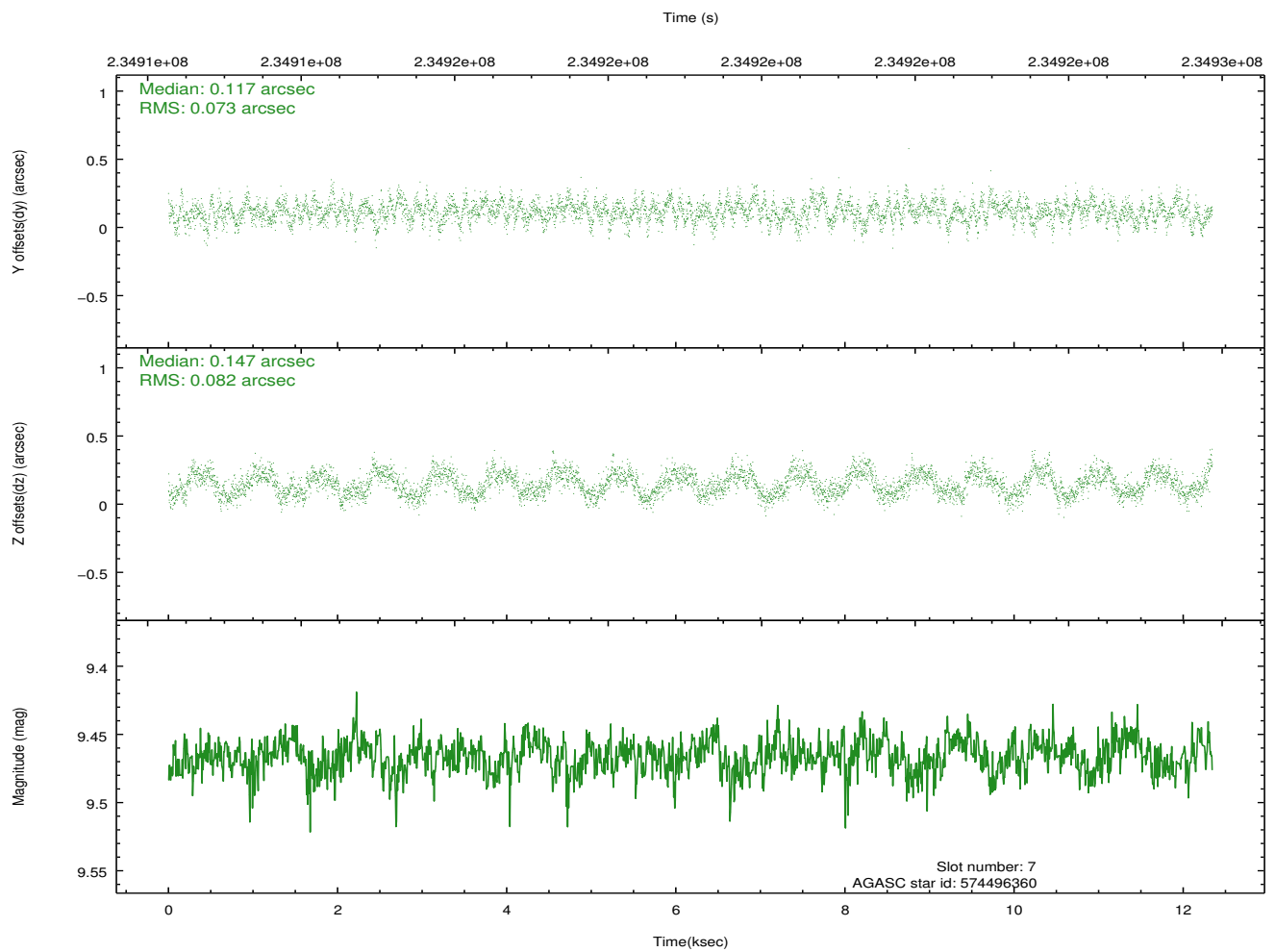
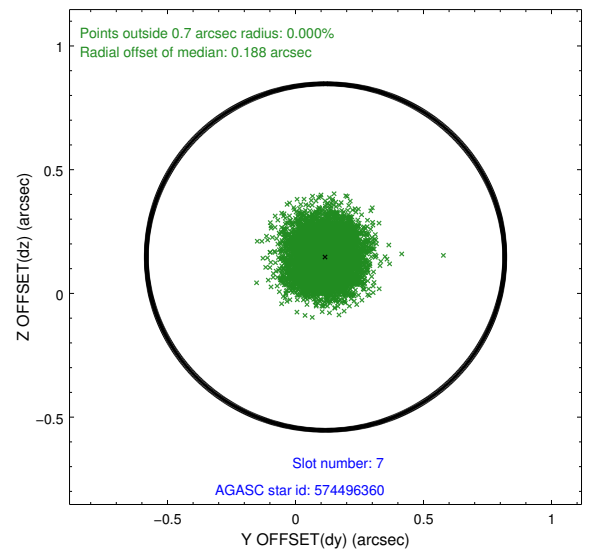
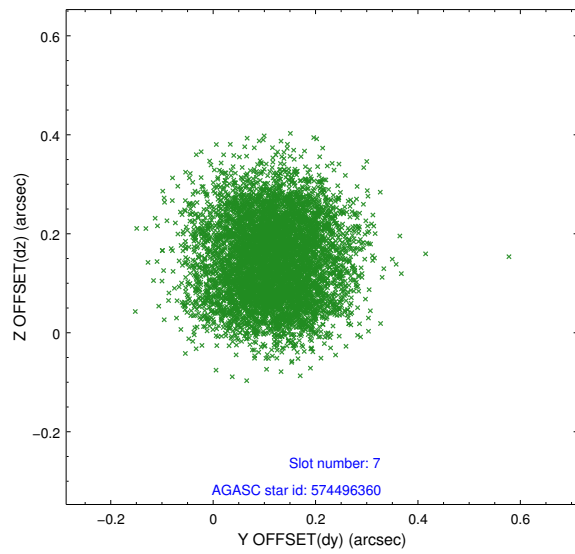
2.4.3 Slot 5



2.4.4 Slot 6

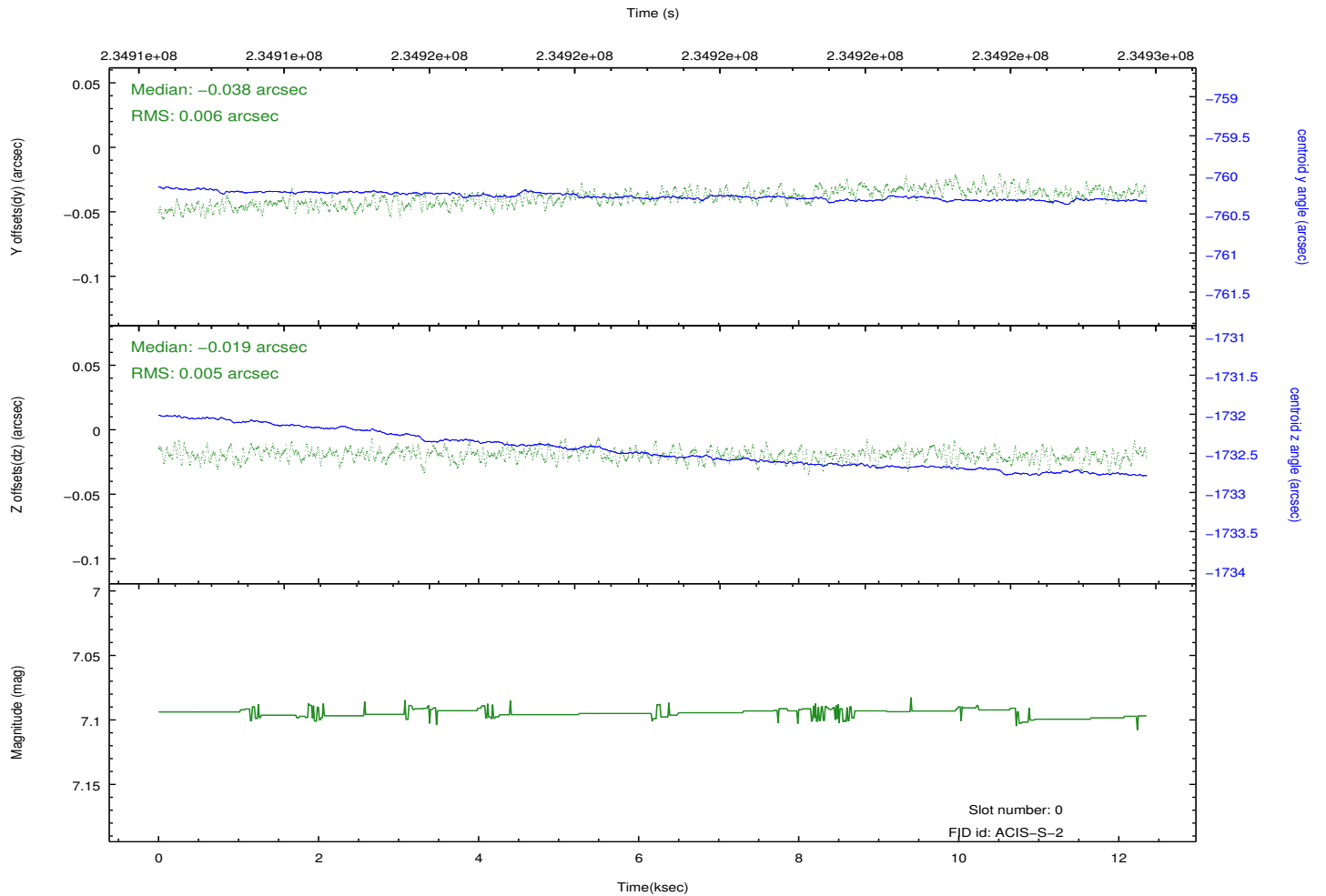
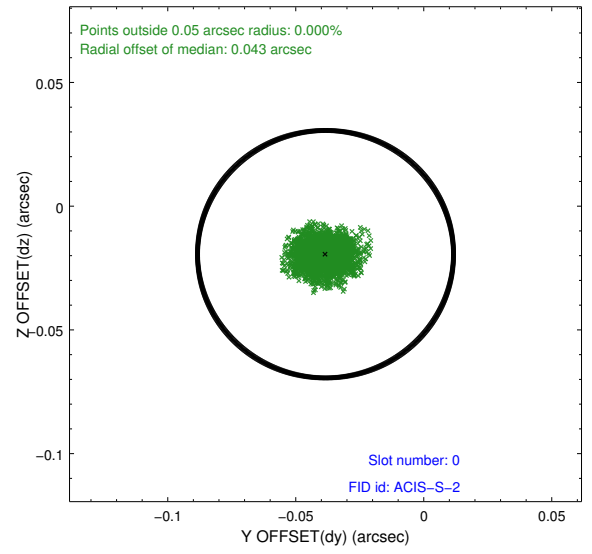
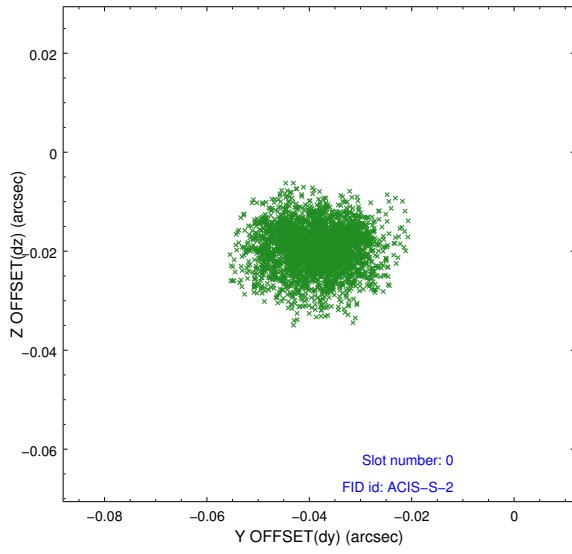


2.4.5 Slot 7

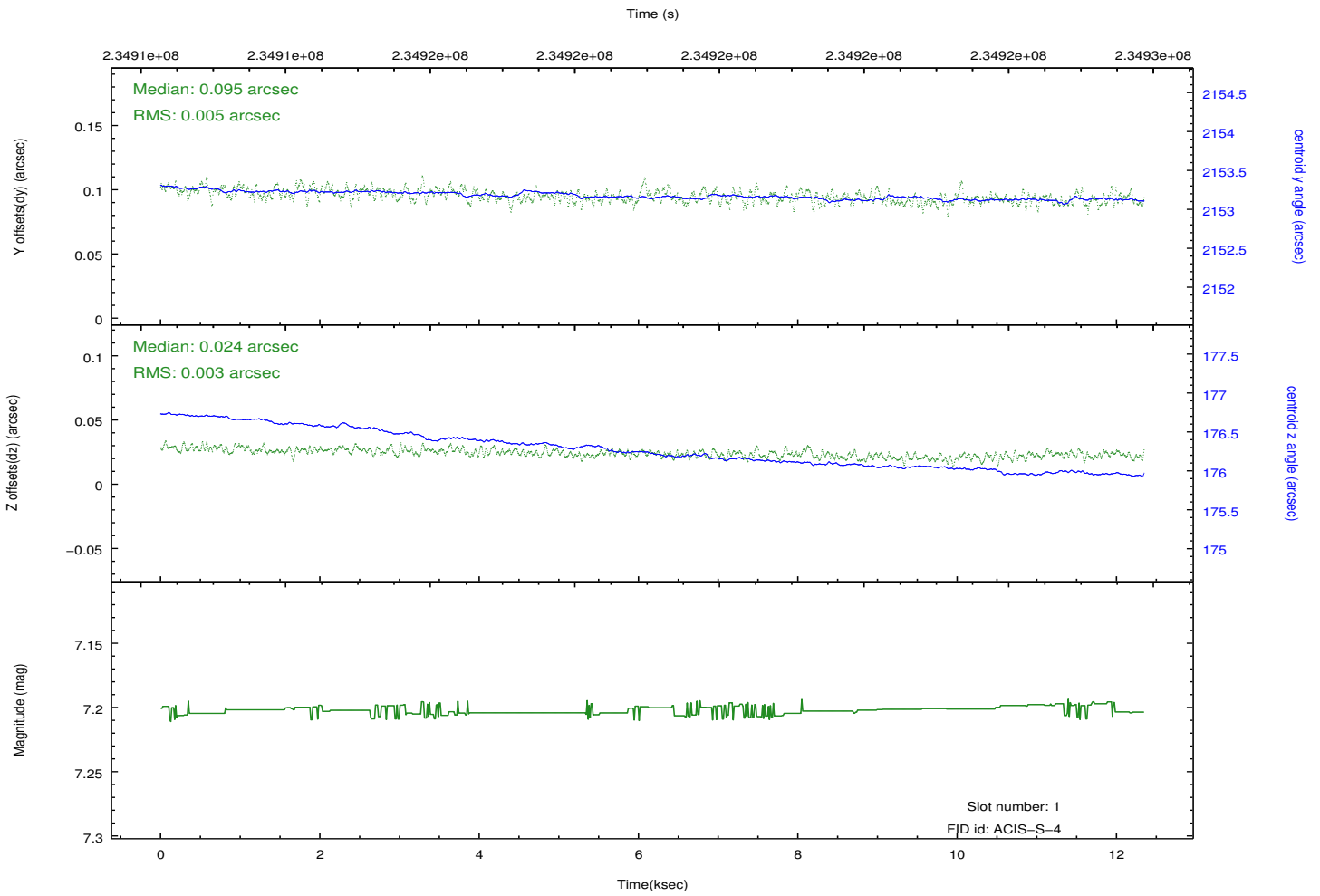
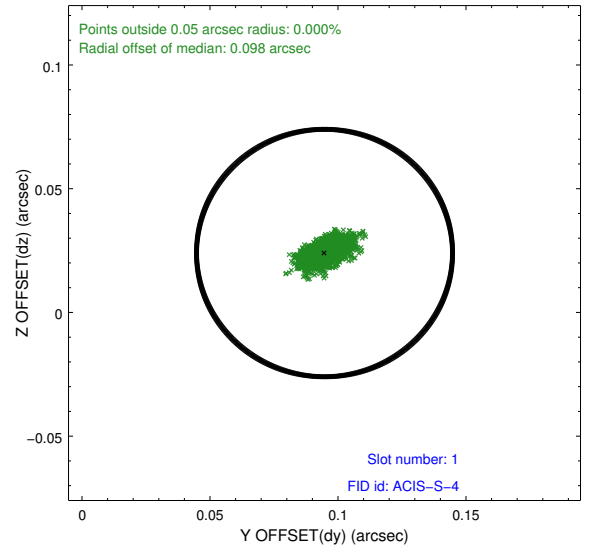
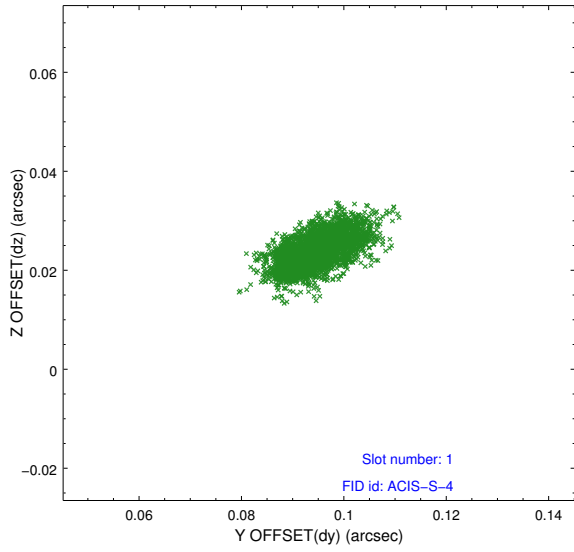


2.5 FID Slots

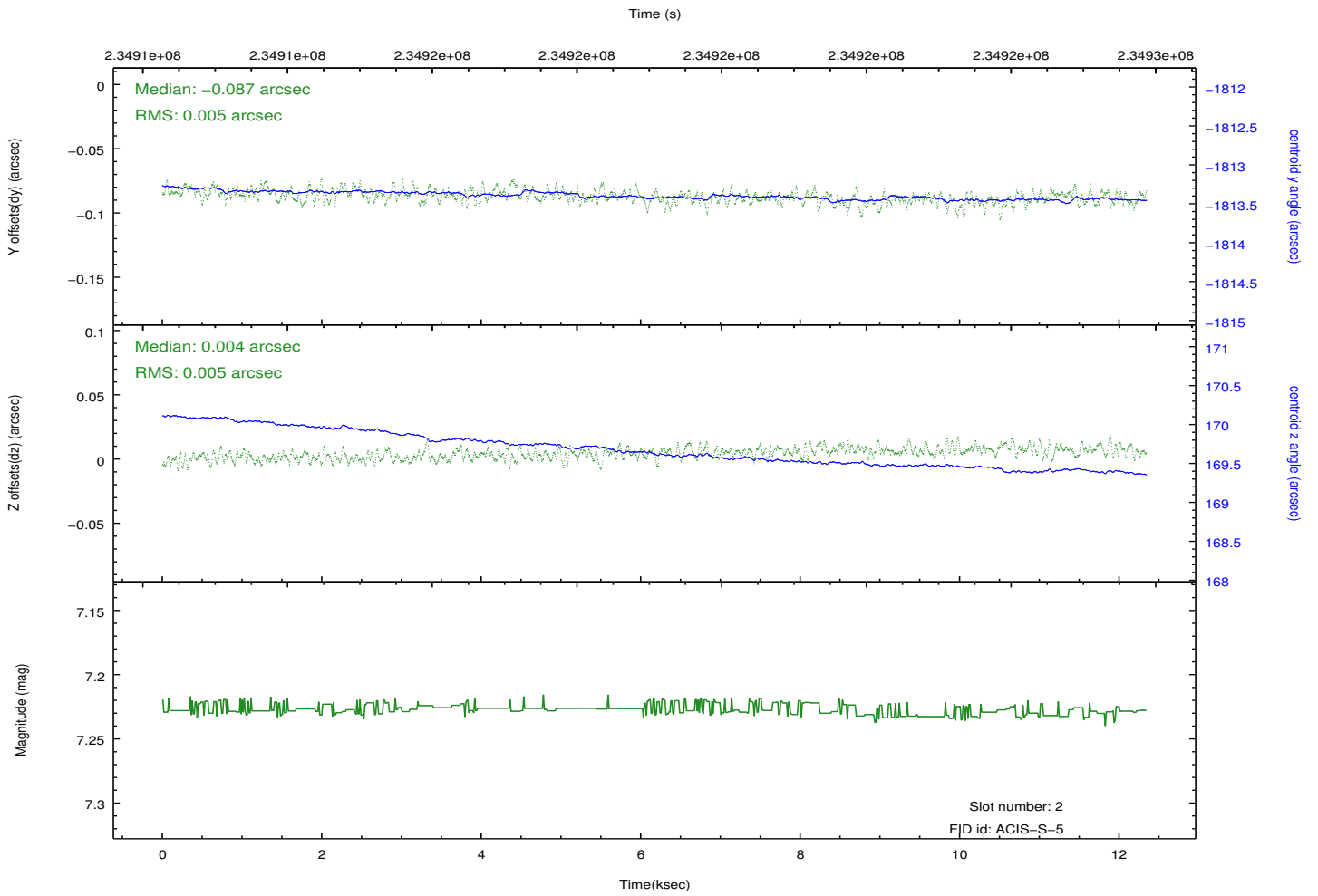
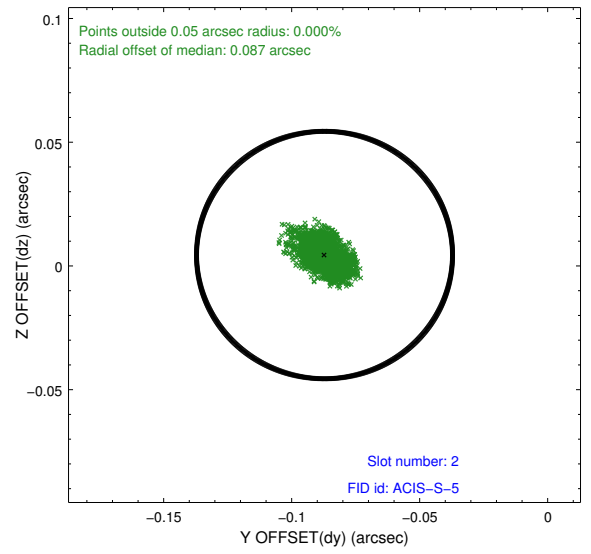
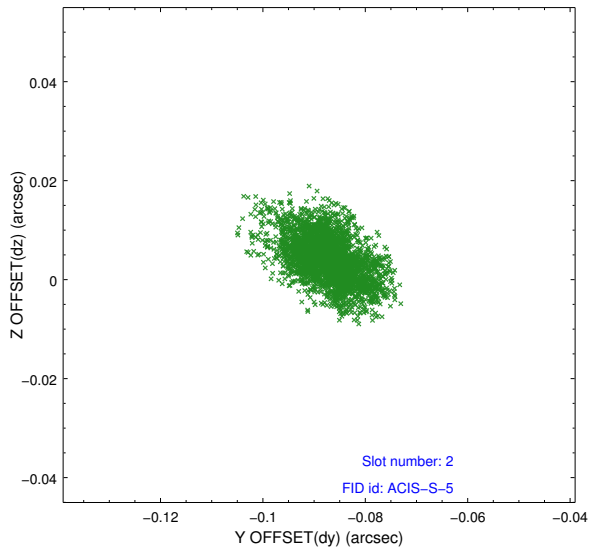
2.5.1 Slot 0



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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.95839

A.2 Comments

Monitor constraint met. Roll preference met.