

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11344 - L2 Version 4
Chandra X-Ray Center

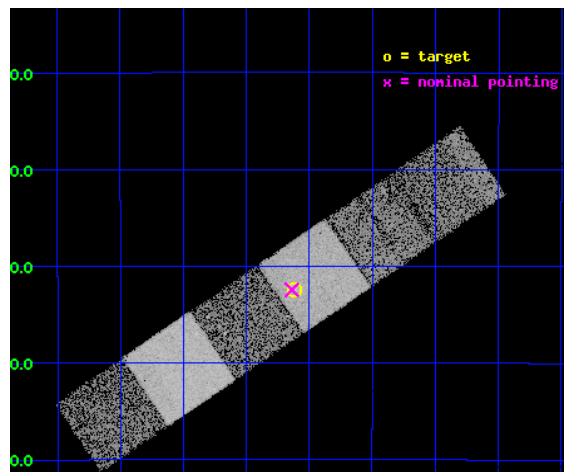
L2 Processing Date : Jul 5 2012

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 7	11
2.5	FID Slots	12
2.5.1	Slot 0	12
2.5.2	Slot 1	13
2.5.3	Slot 2	14
A	Summary	15
A.1	Status	15
A.2	Comments	15

1 Front

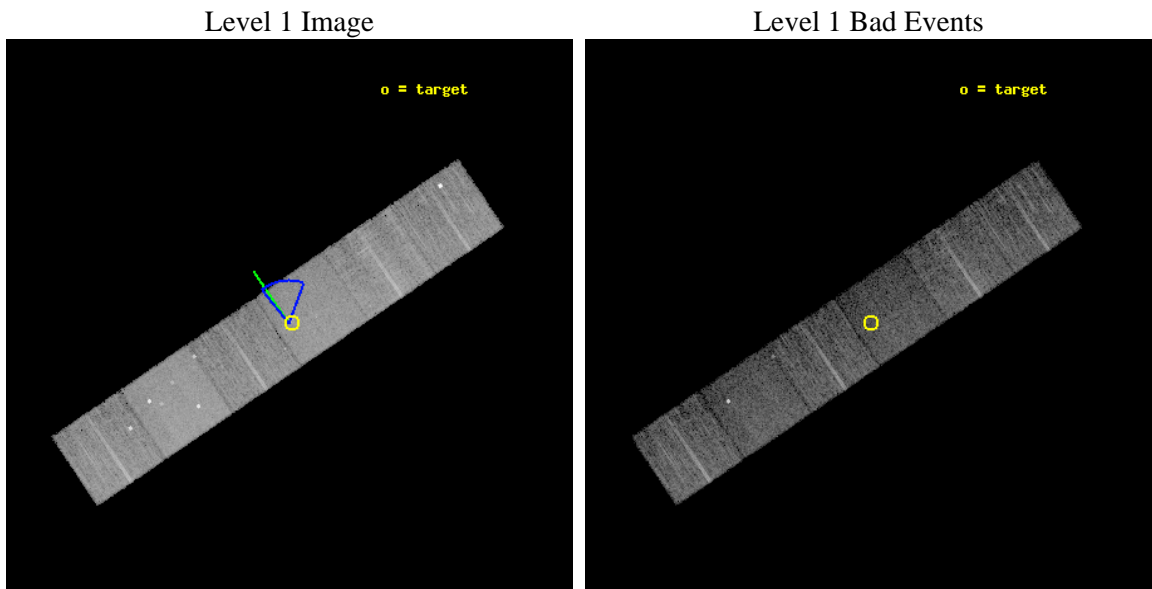
seq_num	600863	Sequence number
obs_id	11344	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC7507	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	348.029167	Observer's specified target RA [deg]
dec_targ	-28.540611	Observer's specified target Dec [deg]
ra_nom	348.0346892965	Nominal RA [deg]
dec_nom	-28.540823253567	Nominal Dec [deg]
roll_nom	325.8772595294	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7350.3999726772	Sum of GTIs [s]
livetime	7257.3247823437	Livetime [s]
ontime4	7350.3999726772	Sum of GTIs [s]
ontime5	7350.3999726772	Sum of GTIs [s]
ontime6	7350.3791970015	Sum of GTIs [s]
ontime7	7350.3999726772	Sum of GTIs [s]
ontime8	7347.0971466303	Sum of GTIs [s]
ontime9	7350.2971169949	Sum of GTIs [s]
l2events	88501	Number of level 2 events



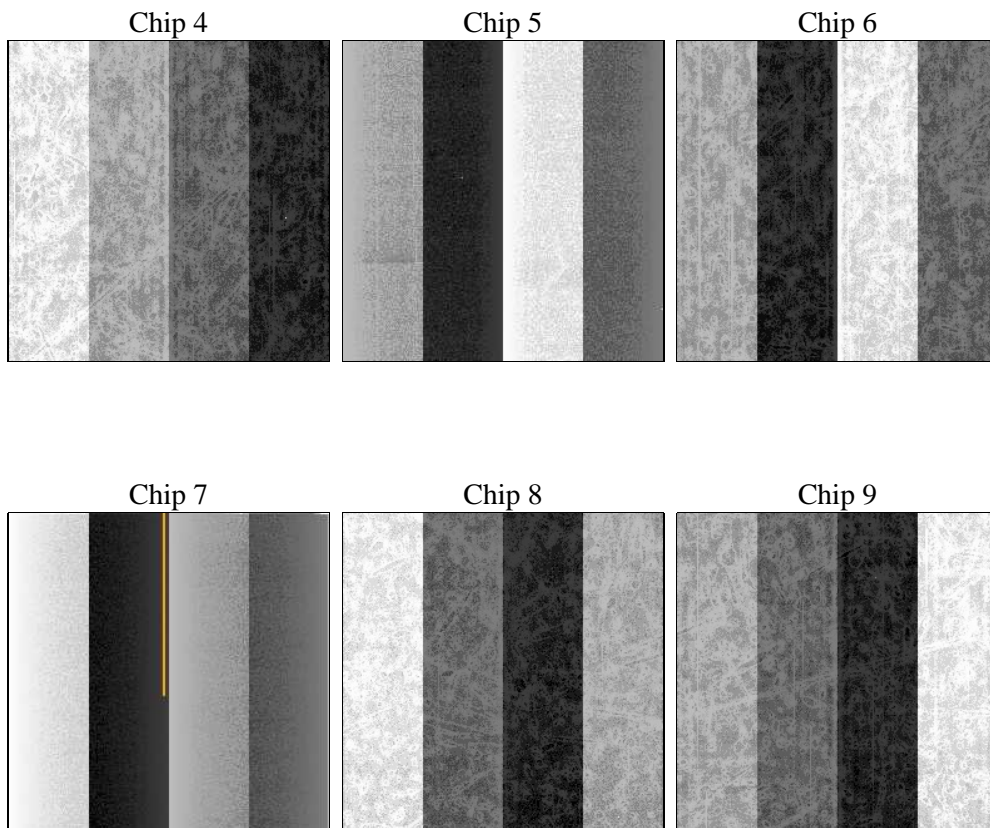
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7350.3999726772	Sum of GTIs [s]
caldbver	4.5.0	 	ontime4	7350.3999726772	Sum of GTIs [s]
date	2012-07-05T15:31:26	Date and time of file creation	ontime5	7350.3999726772	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7350.3791970015	Sum of GTIs [s]
			ontime7	7350.3999726772	Sum of GTIs [s]
			ontime8	7347.0971466303	Sum of GTIs [s]
			ontime9	7350.2971169949	Sum of GTIs [s]
			l1events	391470	Number of level 1 events

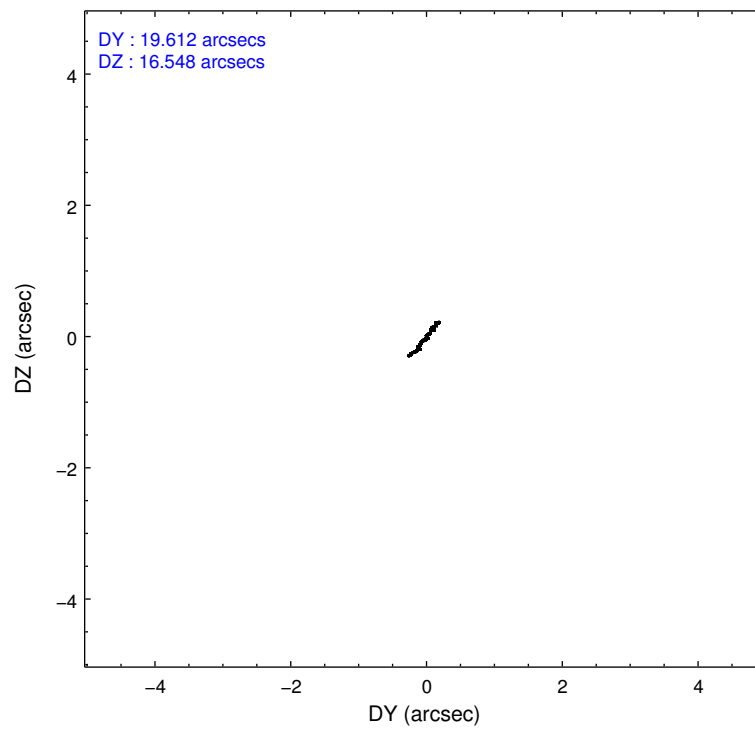
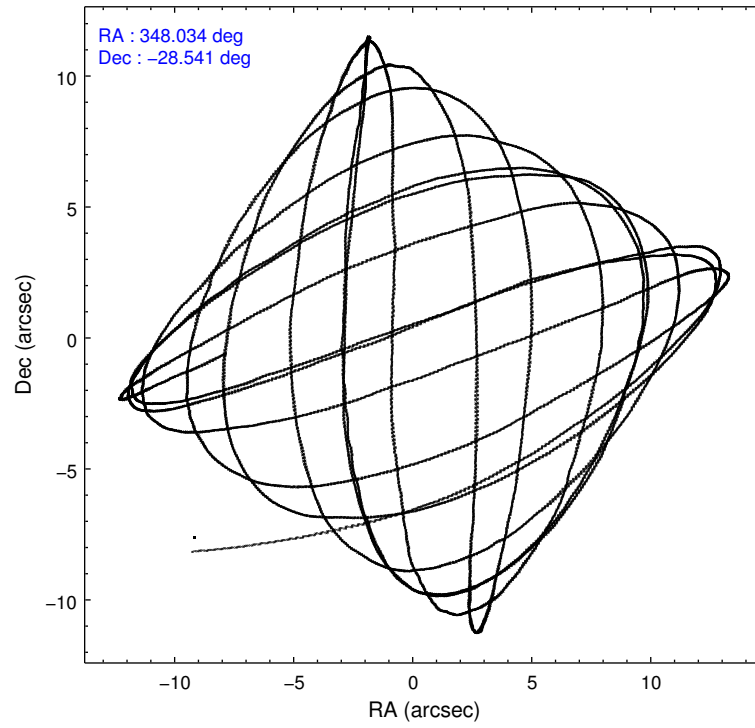
2.1.4 Events

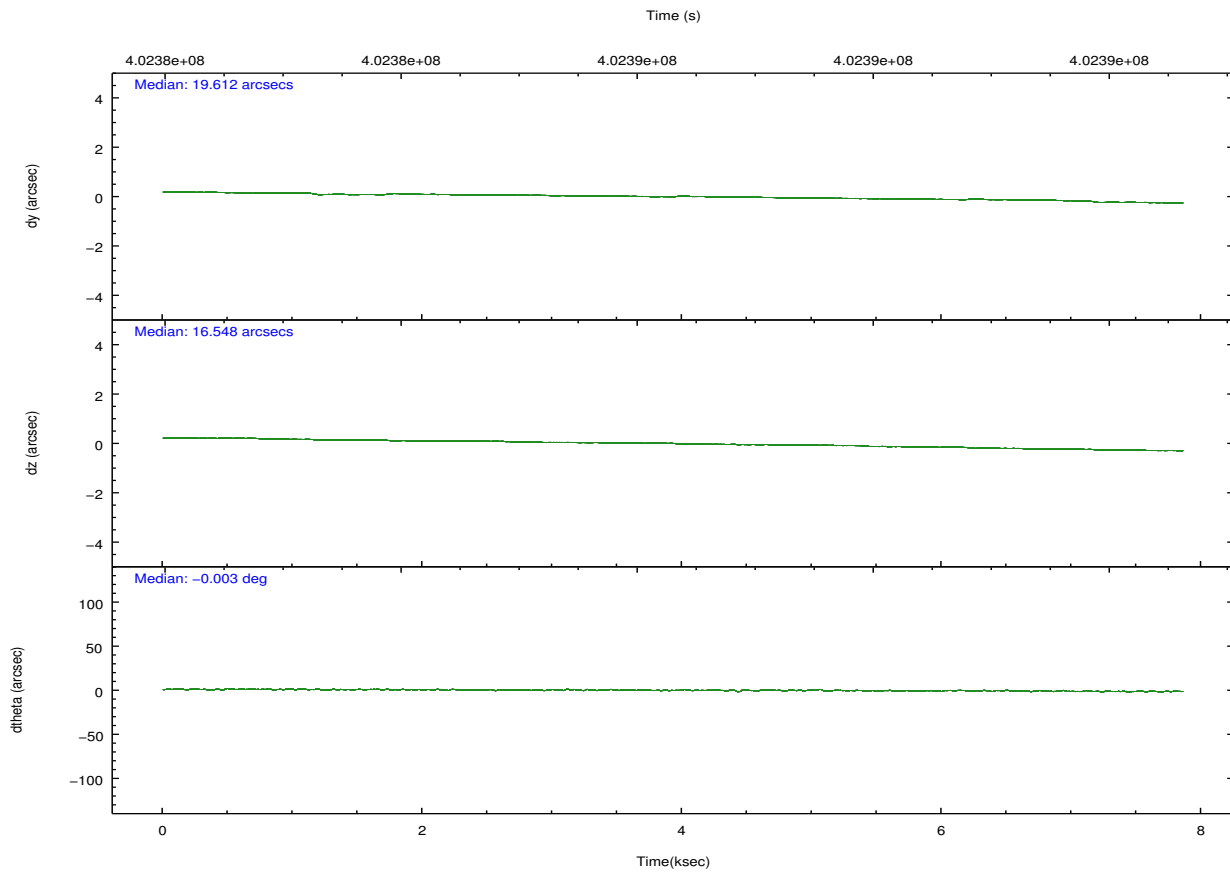
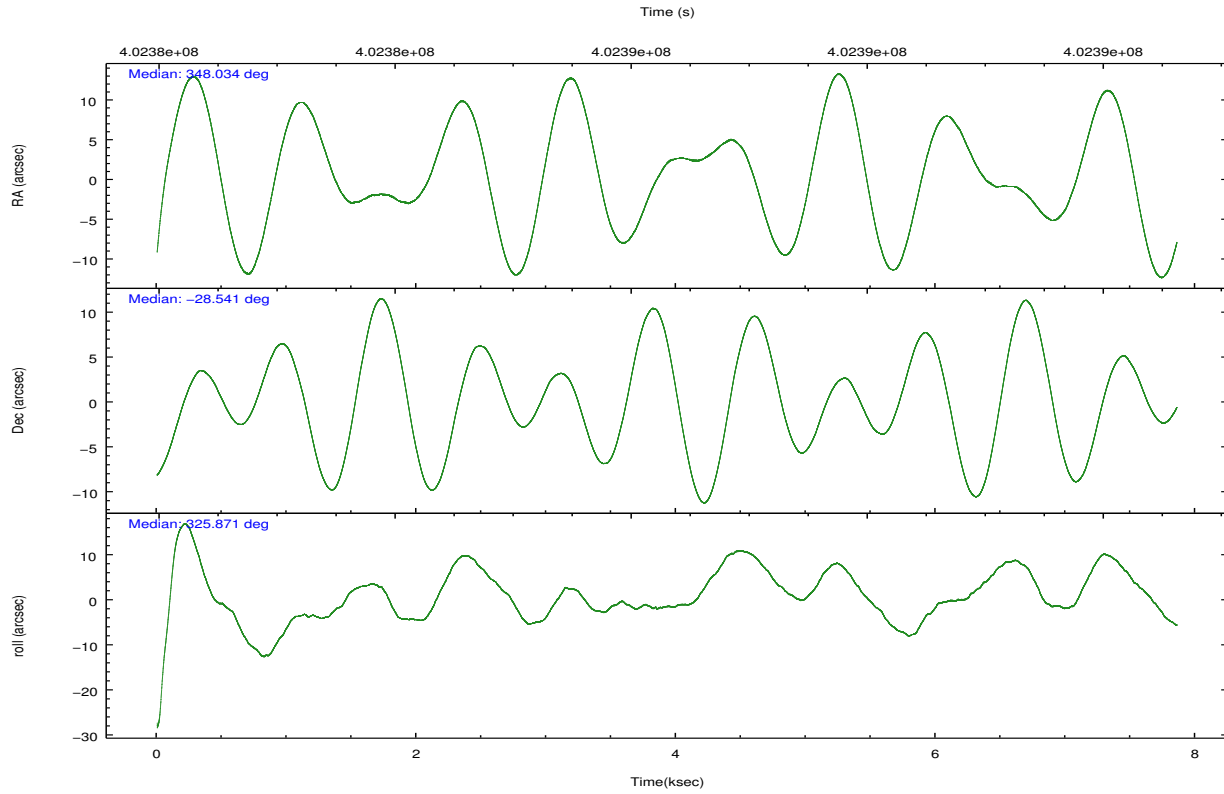
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	62499	85183	52281	66104	68761	56642	grade 0 events	3752	5197	2187	2828	5195	2279
rejected events	54834	42884	46173	36119	51396	45965		6%	6%	4%	4%	7%	4%
rejected %	87%	50%	88%	54%	74%	81%	grade 1 events	60	280	24	84	54	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	1545	12948	1312	6233	4034	5612
								2%	15%	2%	9%	5%	9%
							grade 3 events	661	1520	619	2644	1851	715
								1%	1%	1%	3%	2%	1%
							grade 4 events	651	1499	621	2642	1707	685
								1%	1%	1%	3%	2%	1%
							grade 5 events	2386	6462	2458	6771	3464	2663
								3%	7%	4%	10%	5%	4%
							grade 6 events	1061	21155	1372	15647	4604	1393
								1%	24%	2%	23%	6%	2%
							grade 7 events	52383	36122	43688	29255	47852	43255
								83%	42%	83%	44%	69%	76%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	348.003613	348.0346892964964	CCD I2 on	N	N
[deg] Pointing Dec	-28.539215	-28.54082325356708	CCD I3 on	N	N
[deg] Pointing Roll	325.705792	325.8772595293993	CCD S0 on	O1	Y
[deg] Roll angle	350.000000	350.000000	CCD S1 on	Y	Y
[deg] Roll tolerance	30.000000	30.000000	CCD S2 on	Y	Y
Roll constraint allows 180D rotation	N	N	CCD S3 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S4 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S5 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	0.01005778216563158	On-chip summing requested	N	N
[s] Observation start time (MET)	402382933.184000	402381738.91841	Subarray requested	NONE	NONE
Observation start date	2010-10-02T05:01:07	2010-10-02T04:42:18	Alternating exposures requested	N	N
[s] Observation end time (MET)	402390233.184000	402390986.46889	[s] Primary exposure time	0.000000	3.2
Observation end date	2010-10-02T07:02:47	2010-10-02T07:16:26			
Read mode	TIMED	TIMED			

2.3 Aspect





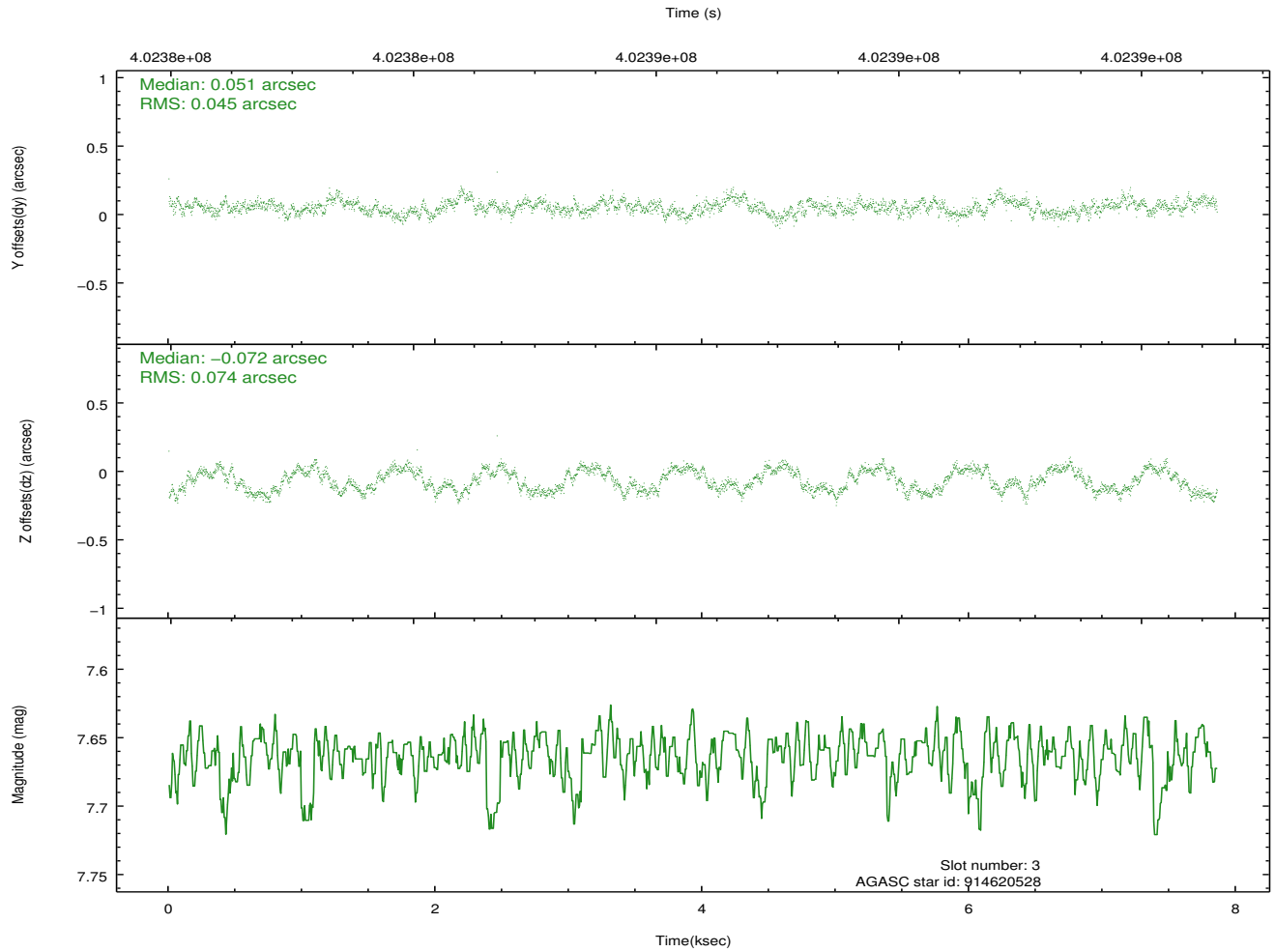
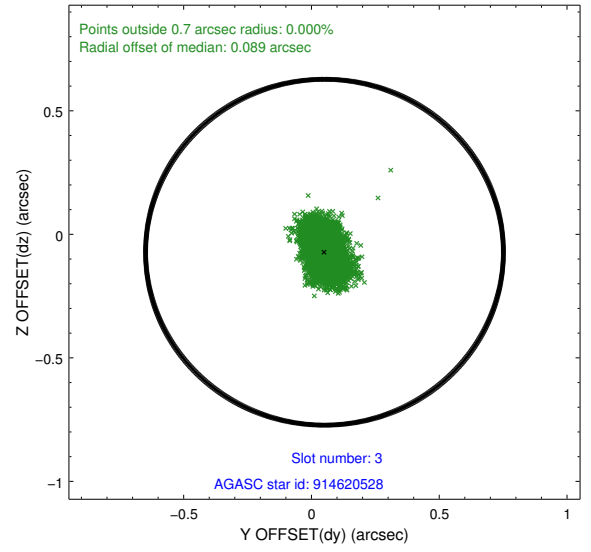
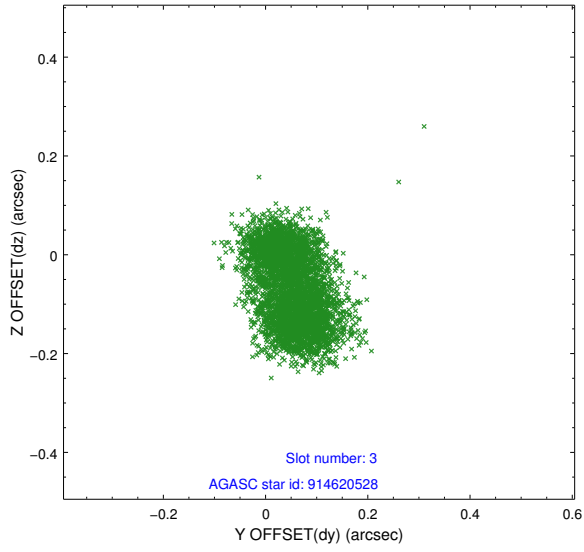
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	1917	-0.091	-0.007	0.008	0.012	0.000000	0.000000	-772.80	-1737.89
1	FID	ACIS-S-4	6.95	1916	0.215	0.046	0.006	0.011	0.000000	0.000000	2140.47	169.86
2	FID	ACIS-S-5	6.98	1917	-0.156	-0.030	0.007	0.012	0.000000	0.000000	-1824.77	164.32
3	GUIDE	914620528	7.66	3834	0.051	-0.072	0.095	0.138	347.531117	-28.945692	-403.06	-2049.95
4	GUIDE	914621872	8.60	3826	-0.070	0.058	0.085	0.133	347.626605	-28.428608	-1209.21	-345.70
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	914627704	9.92	3830	0.018	0.004	0.148	0.247	347.674223	-27.847263	-2268.96	1465.96

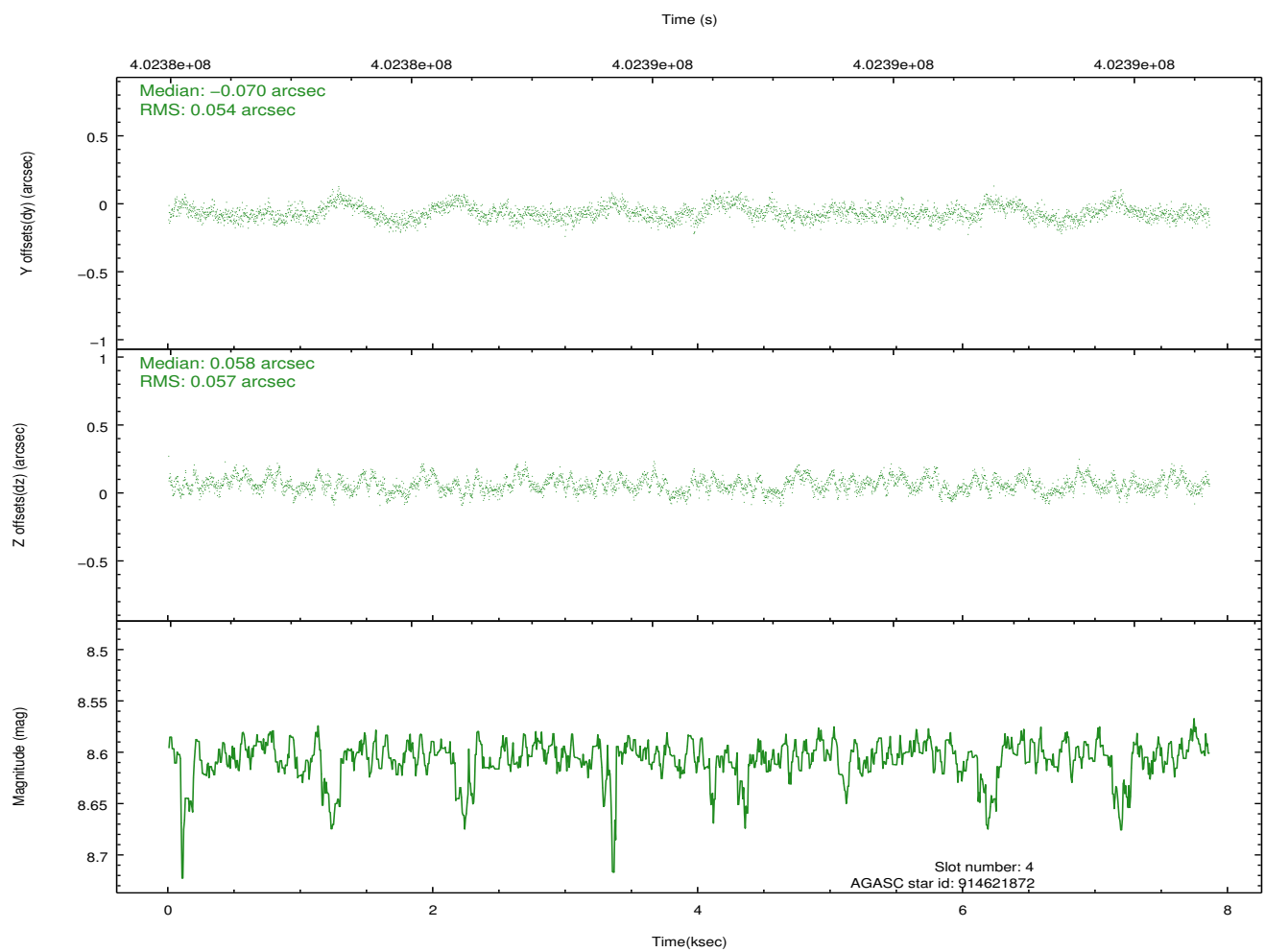
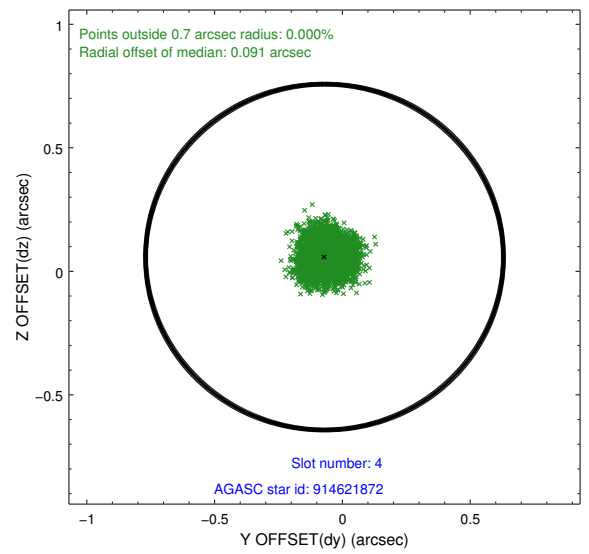
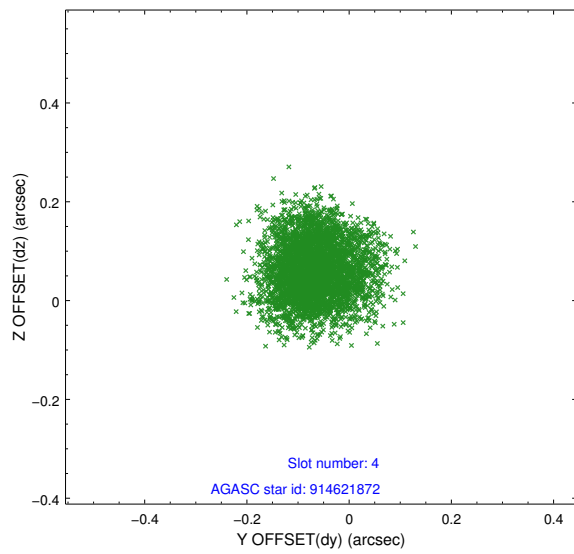
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2.4 Star Slots

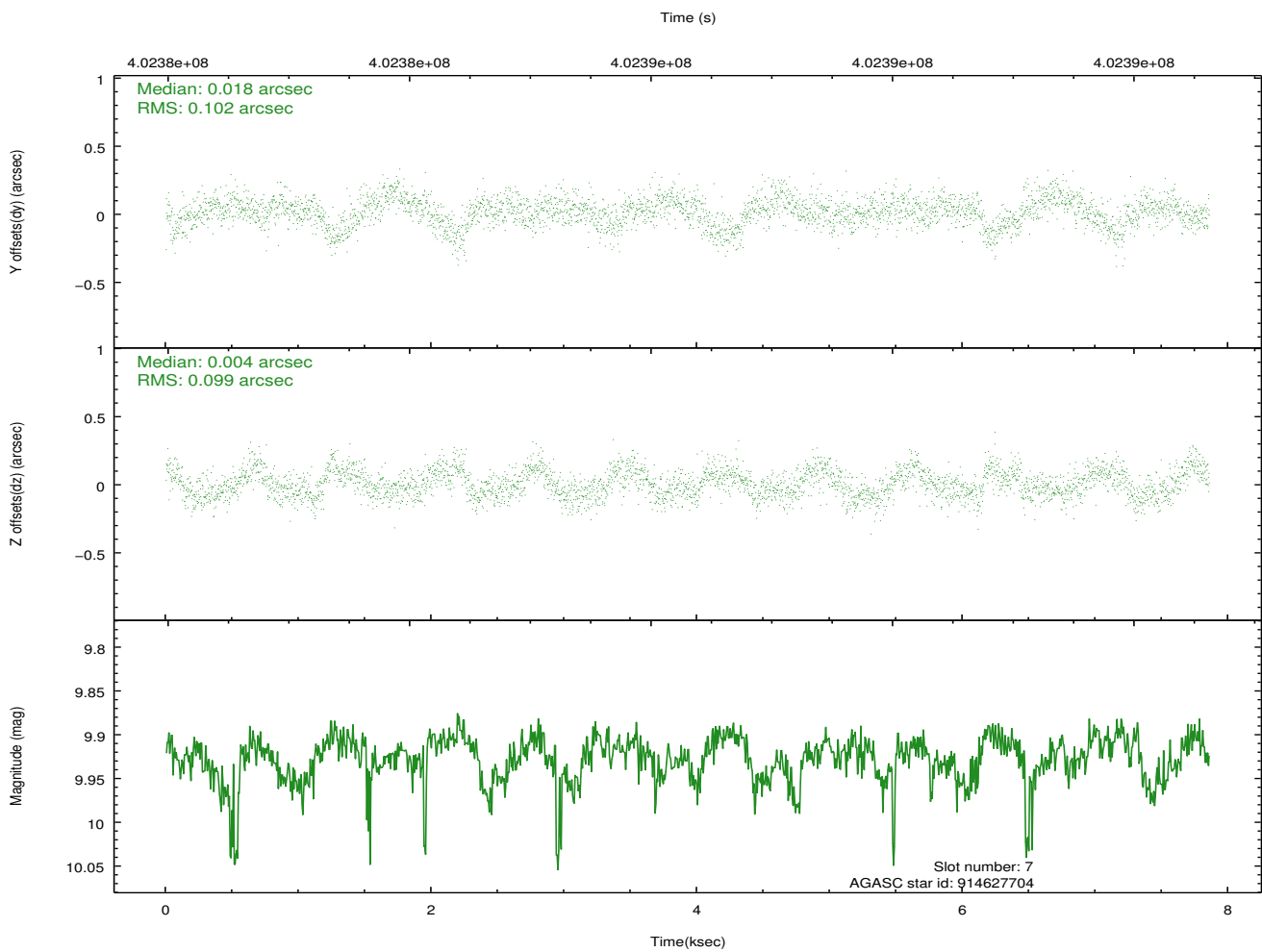
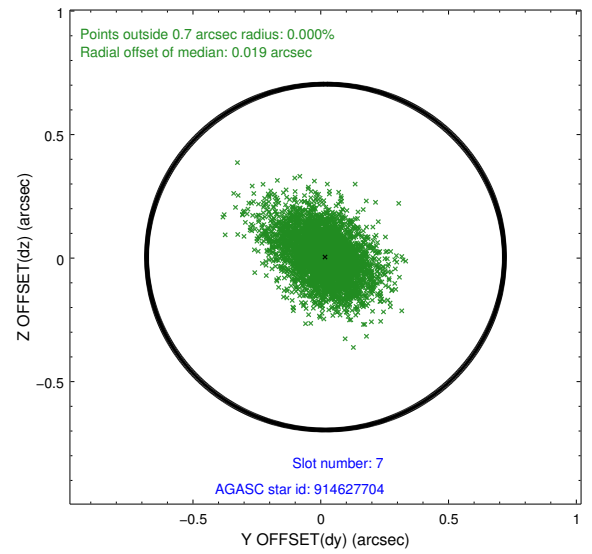
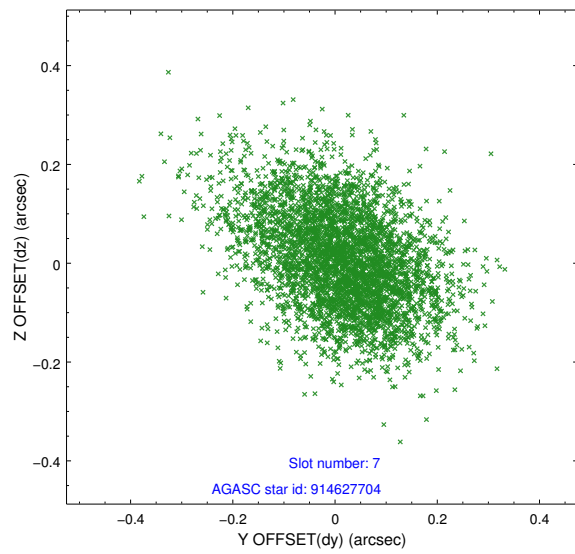
2.4.1 Slot 3



2.4.2 Slot 4

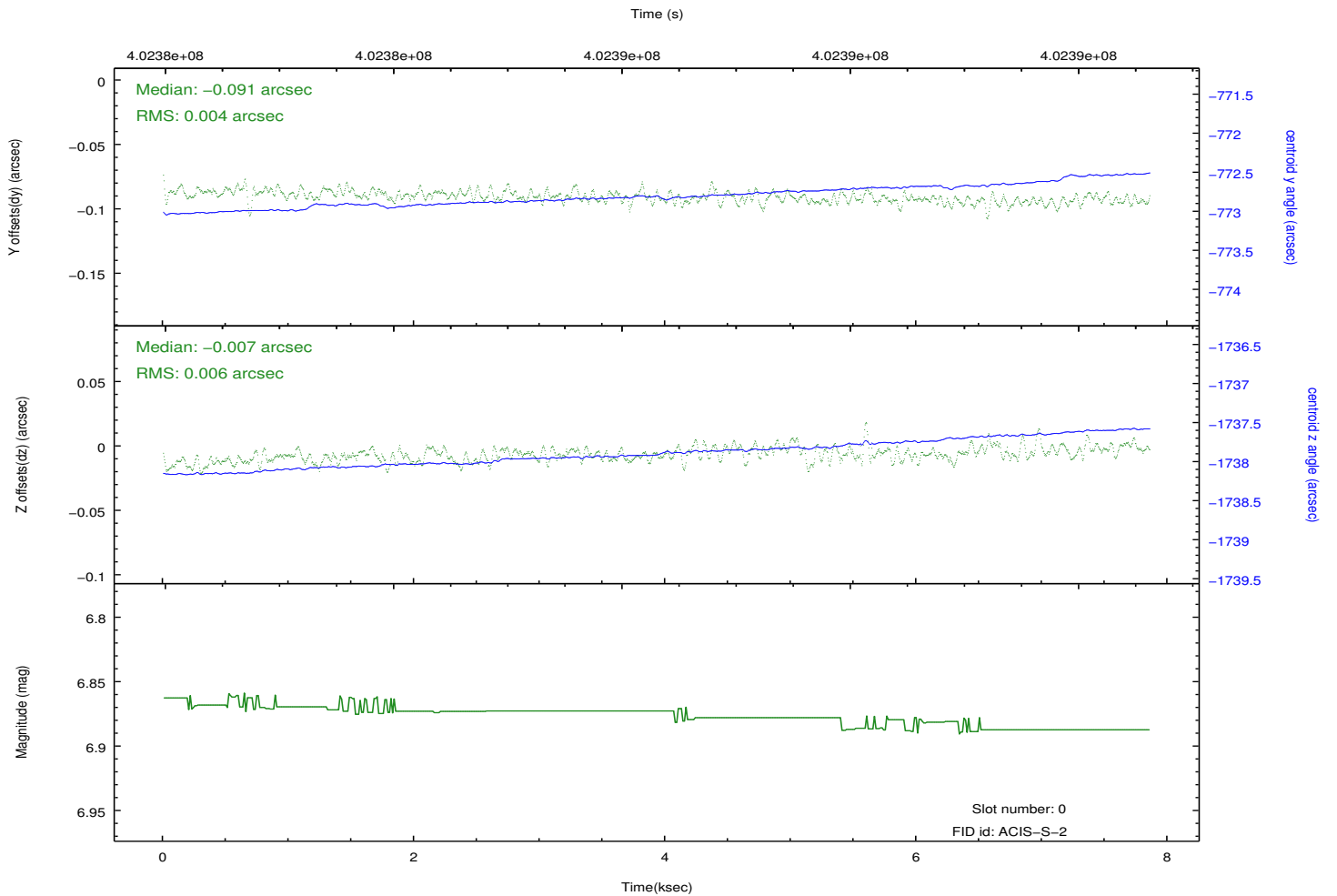
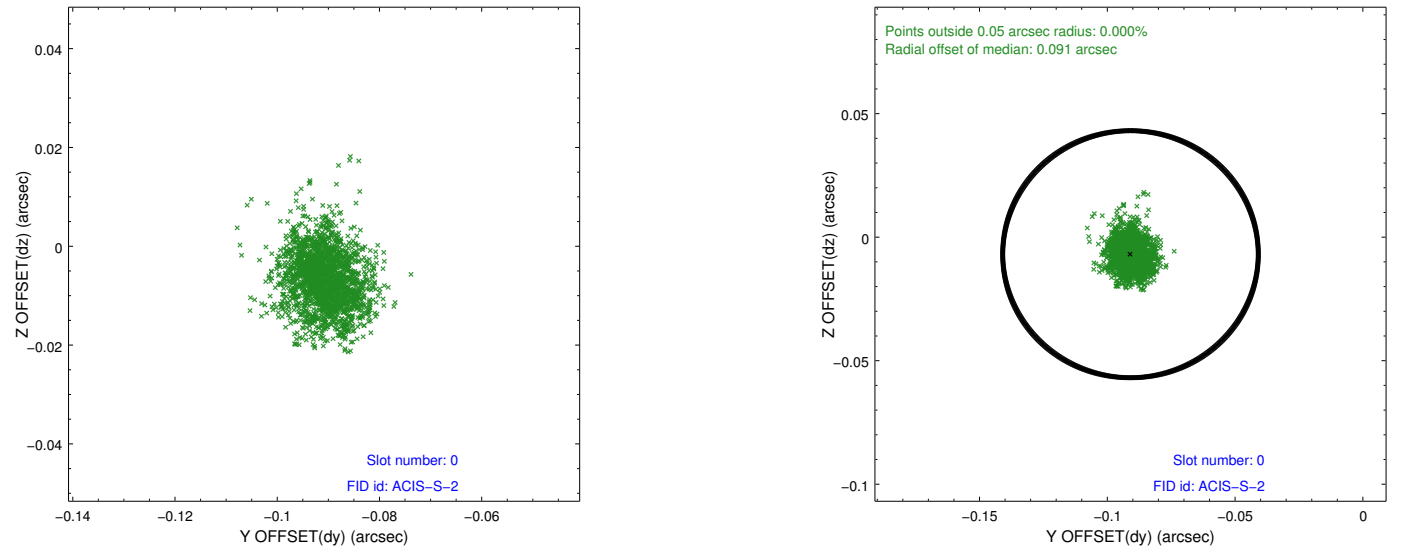


2.4.3 Slot 7

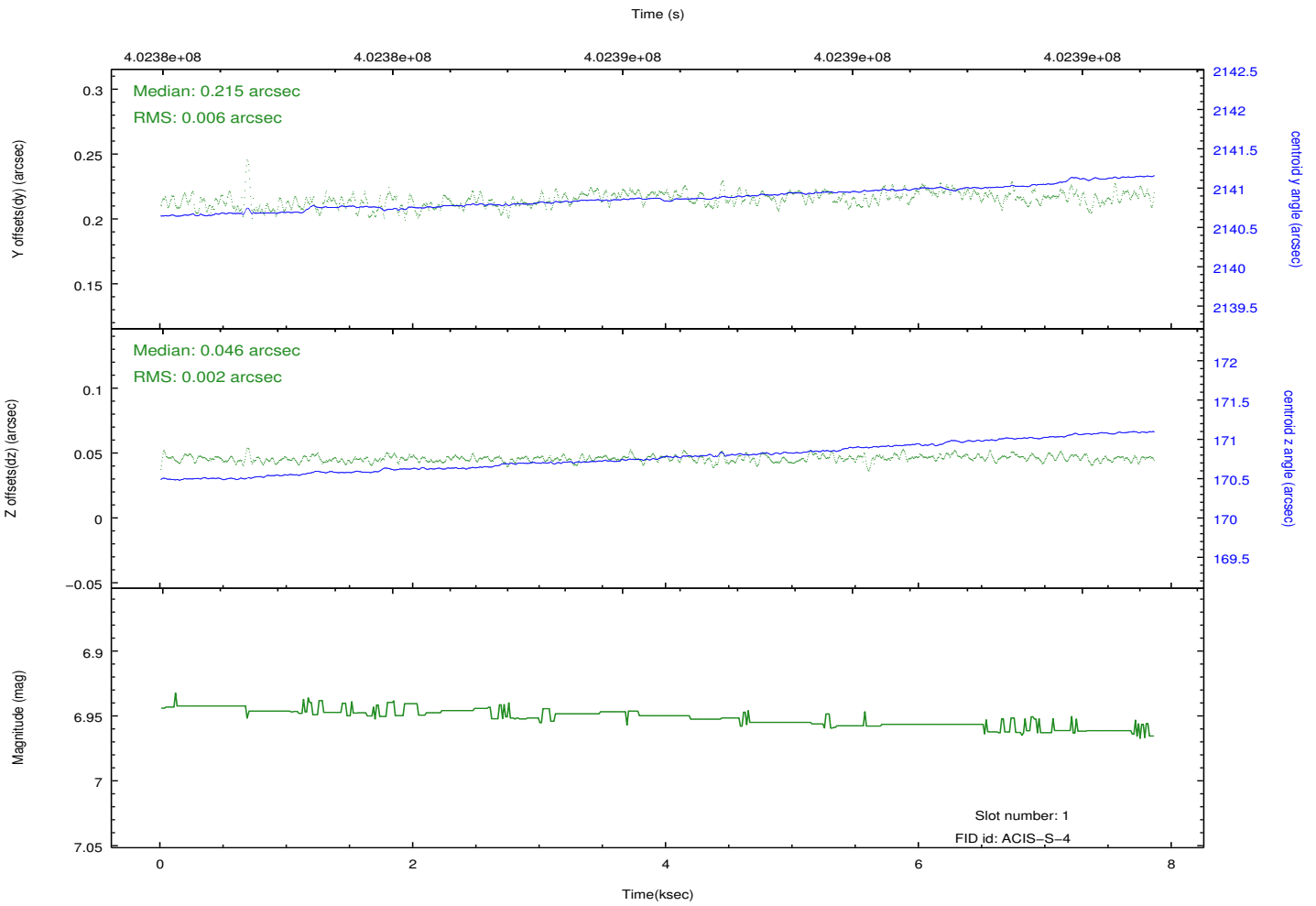
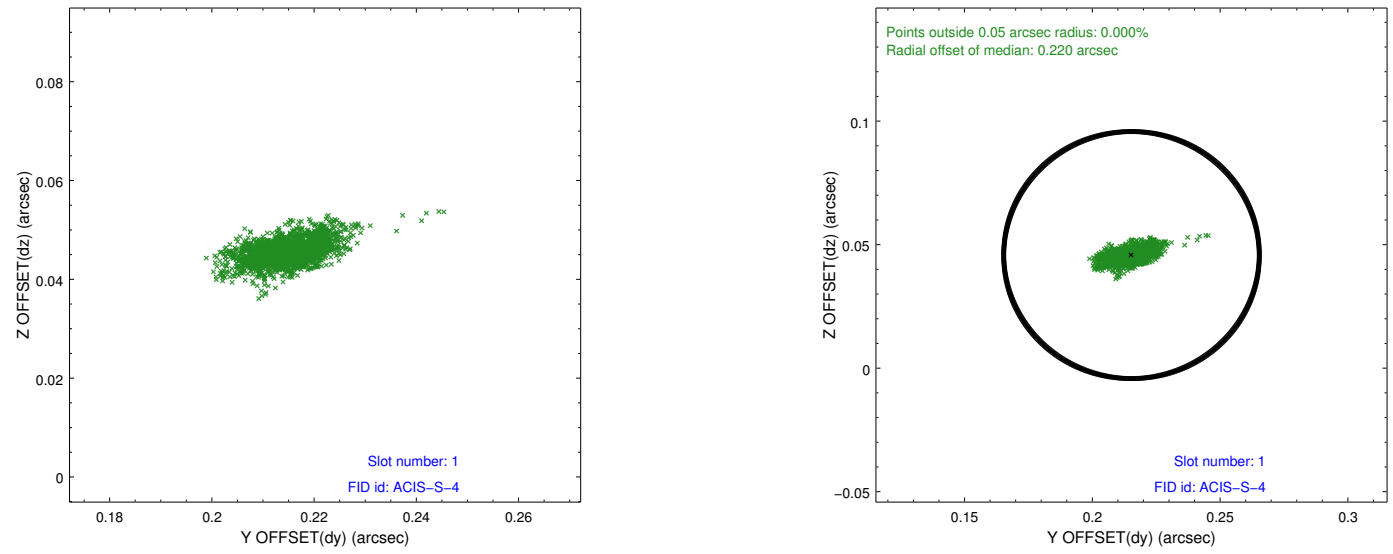


2.5 FID Slots

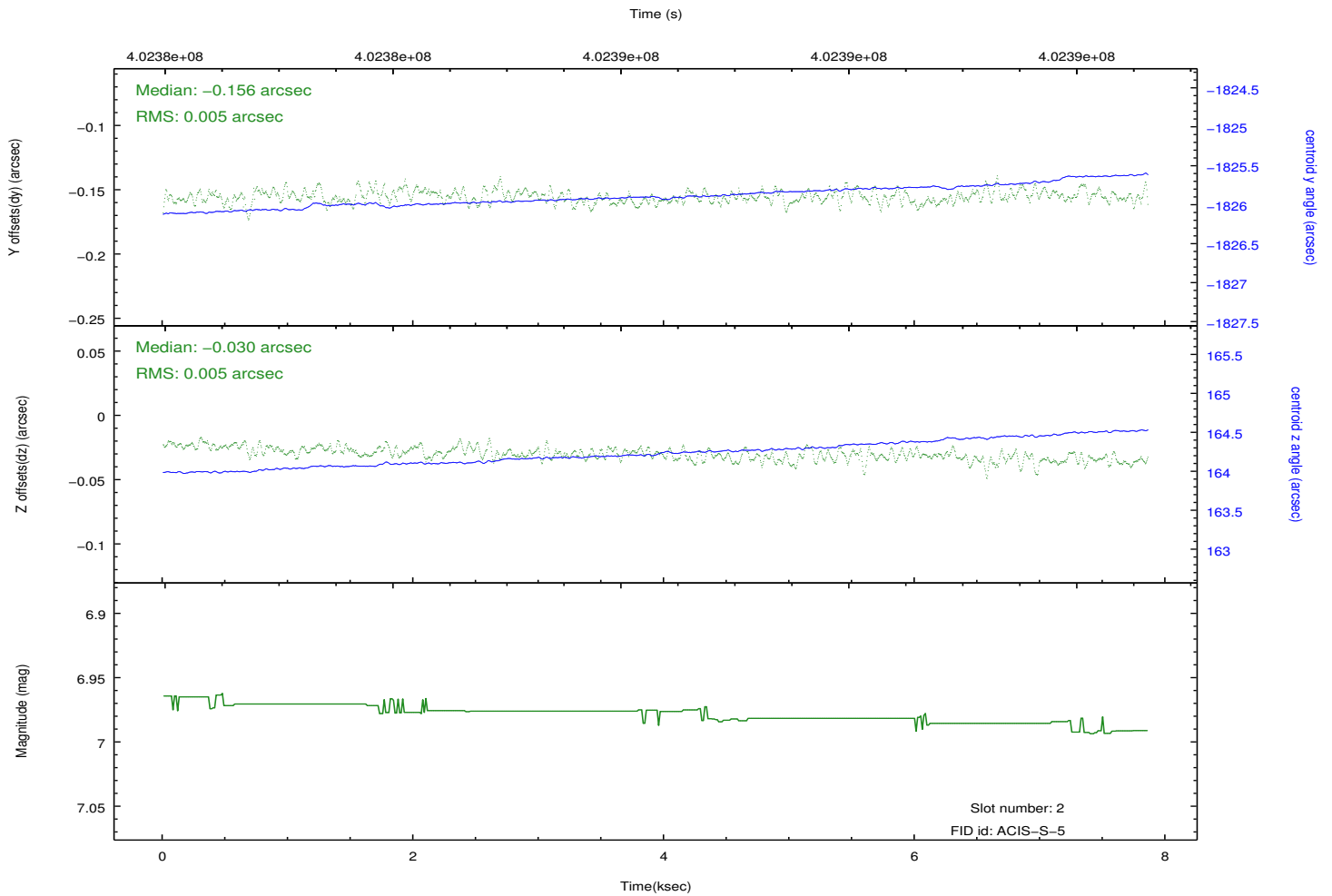
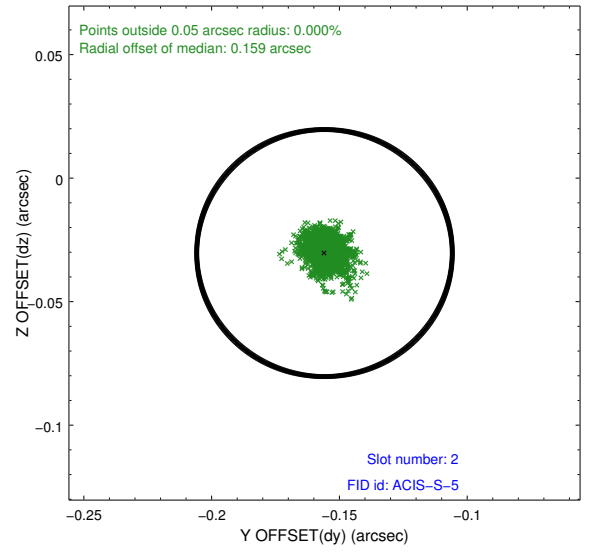
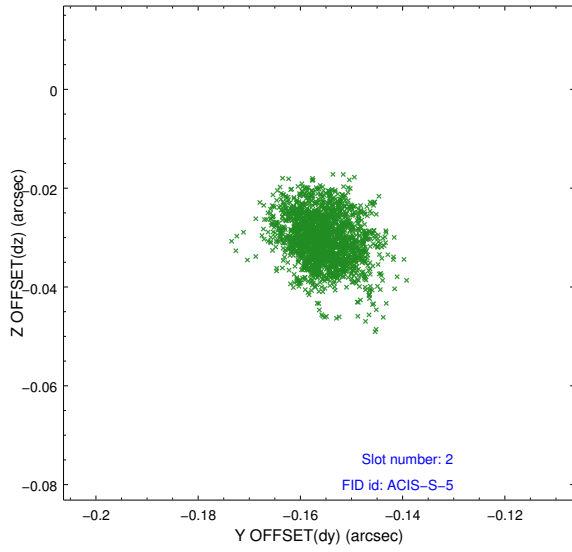
2.5.1 Slot 0



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)	2012.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.3503999726772

A.2 Comments

Roll constraint met.

The guide stars in slots 5 and 6 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these stars from the solution.