

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2309 - L2 Version 3
Chandra X-Ray Center

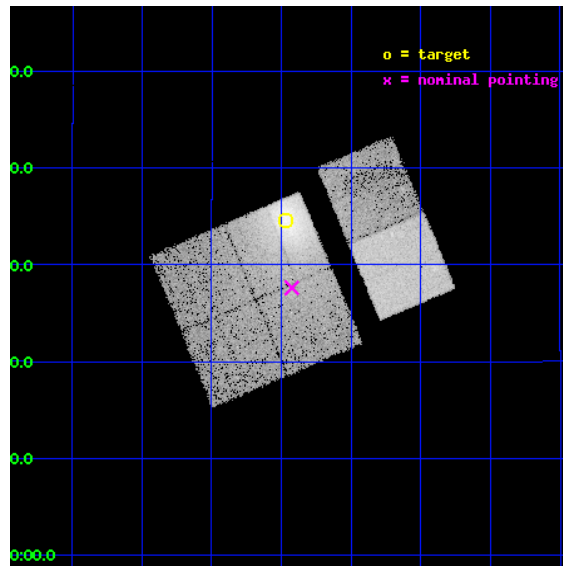
L2 Processing Date : Sep 3 2012

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

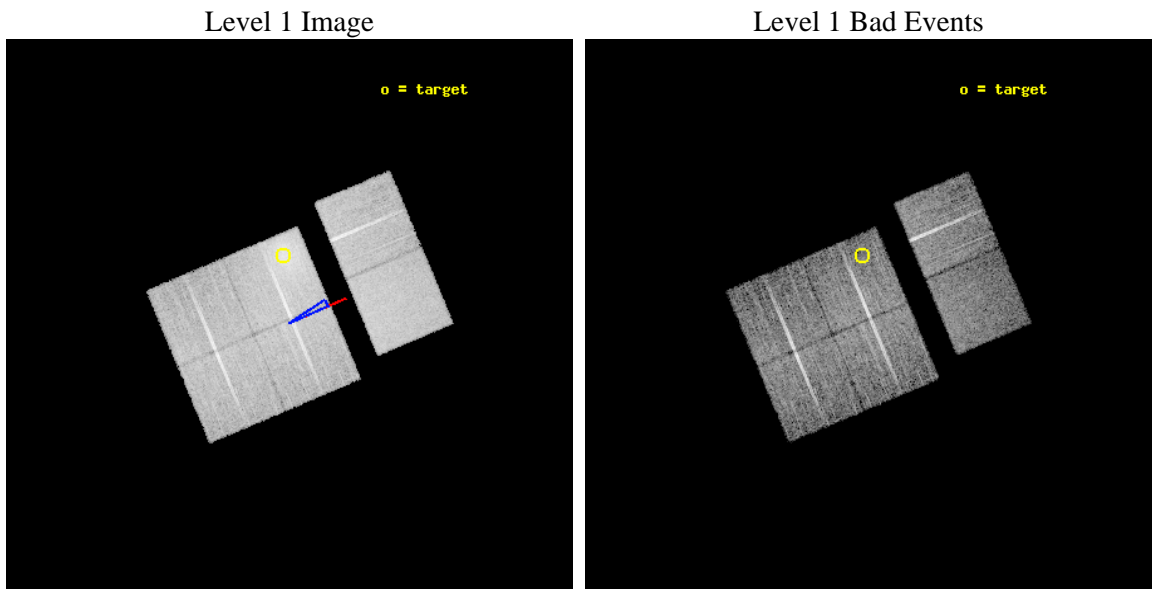
seq_num	800026	Sequence number
obs_id	2309	Observation id
title	MASS DISTRIBUTIONS OF RELAXED CLUSTERS	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A401	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	44.74292	Observer's specified target RA [deg]
dec_targ	13.5775	Observer's specified target Dec [deg]
ra_nom	44.731054817178	Nominal RA [deg]
dec_nom	13.460476918593	Nominal Dec [deg]
roll_nom	67.161431105941	Nominal Roll [deg]
revision	3	Processing version of data
ontime	11715.200010896	Sum of GTIs [s]
livetime	11566.855094311	Livetime [s]
ontime0	11715.200010896	Sum of GTIs [s]
ontime1	11715.200010896	Sum of GTIs [s]
ontime2	11715.200010896	Sum of GTIs [s]
ontime3	11715.200010896	Sum of GTIs [s]
ontime6	11715.200010896	Sum of GTIs [s]
ontime7	11715.200010896	Sum of GTIs [s]
l2events	131861	Number of level 2 events



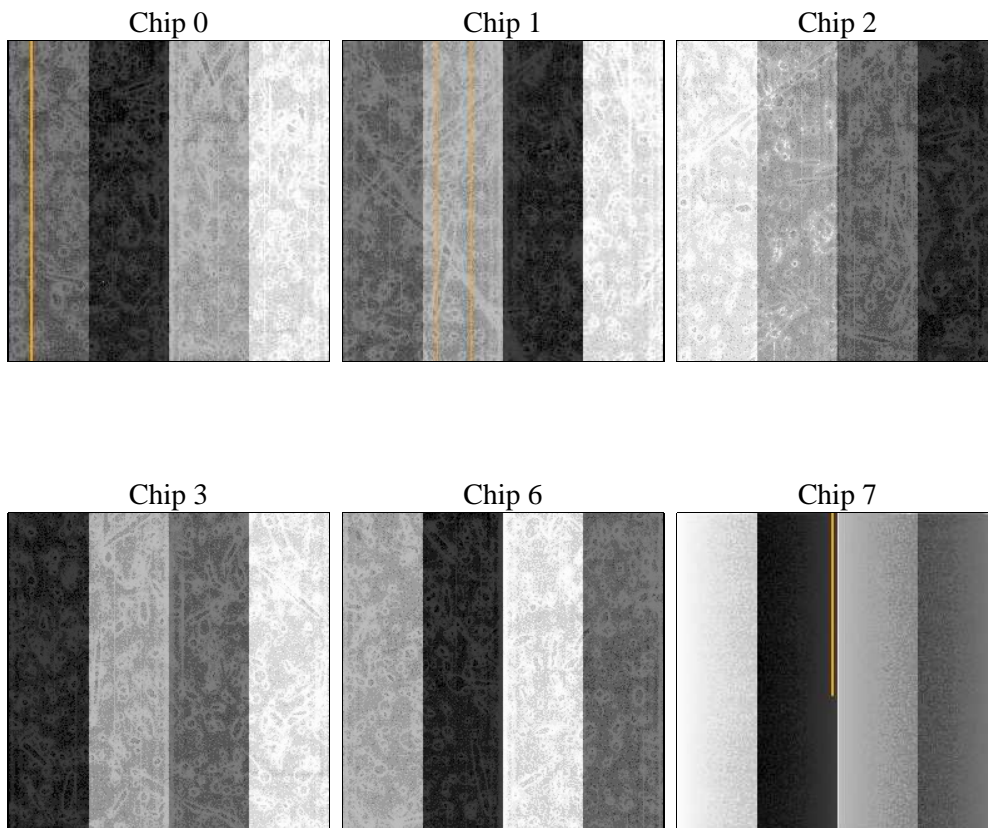
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11760.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	11715.200010896	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime0	11715.200010896	Sum of GTIs [s]
date	2012-09-03T03:17:45	Date and time of file creation	ontime1	11715.200010896	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	11715.200010896	Sum of GTIs [s]
			ontime3	11715.200010896	Sum of GTIs [s]
			ontime6	11715.200010896	Sum of GTIs [s]
			ontime7	11715.200010896	Sum of GTIs [s]
			l1events	519232	Number of level 1 events

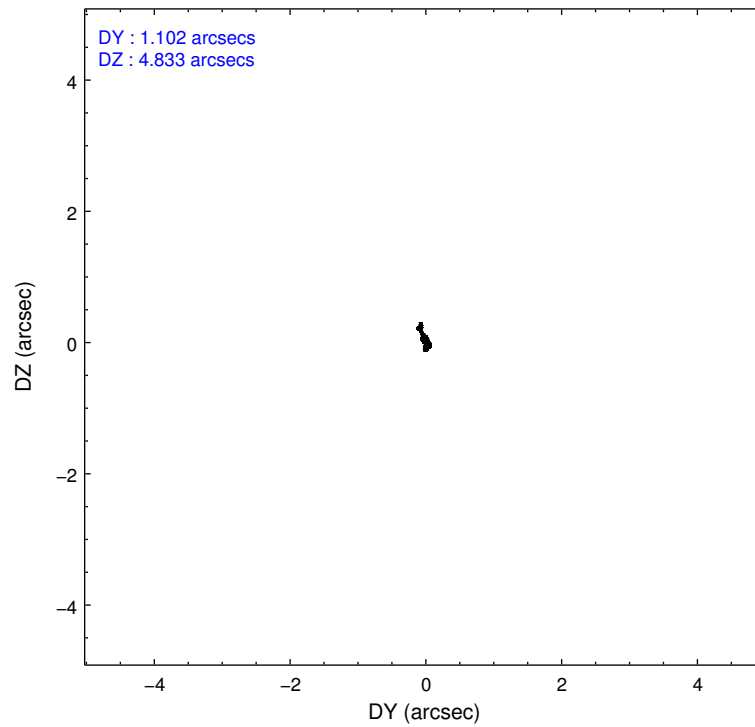
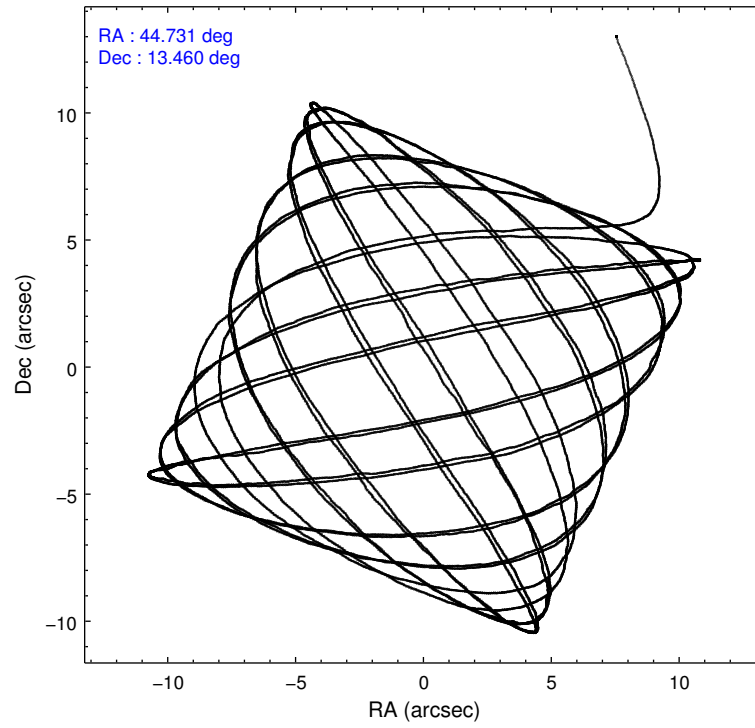
2.1.4 Events

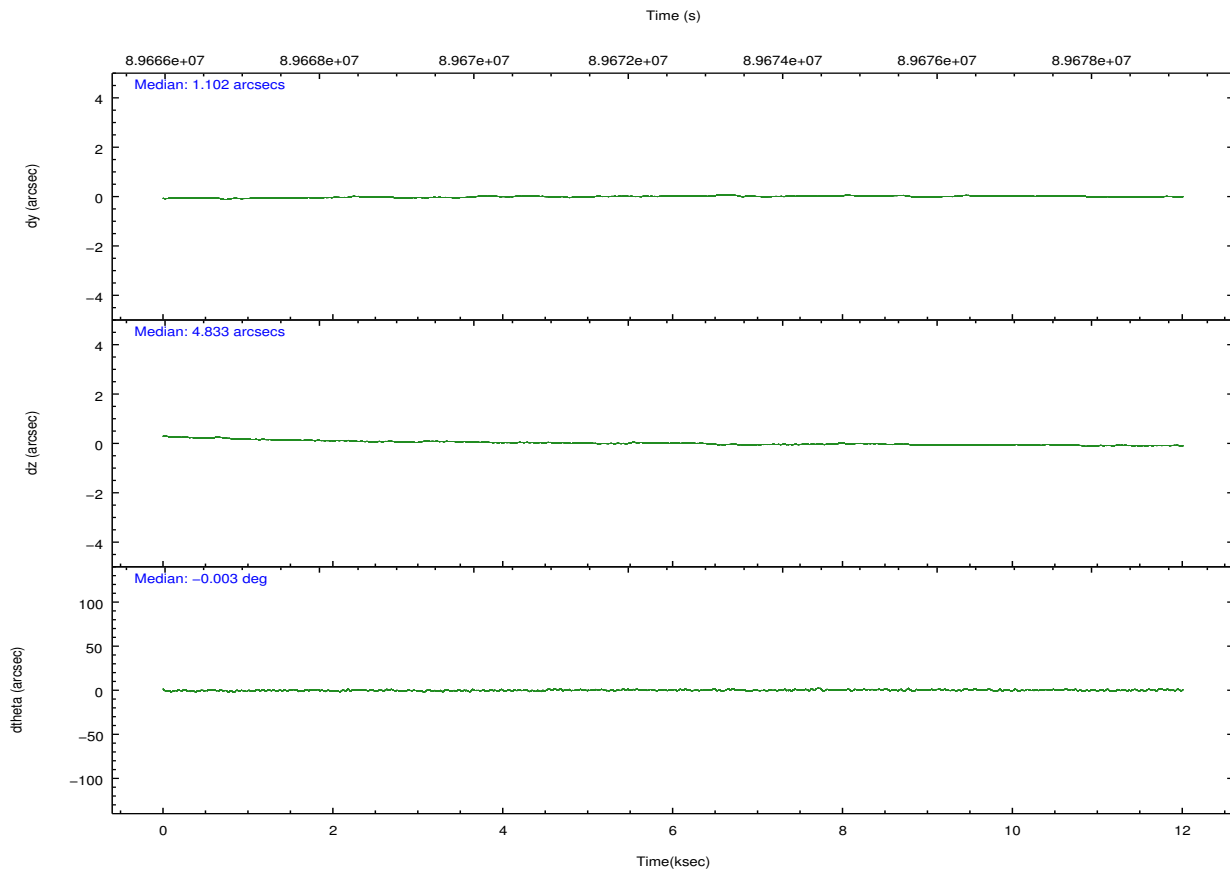
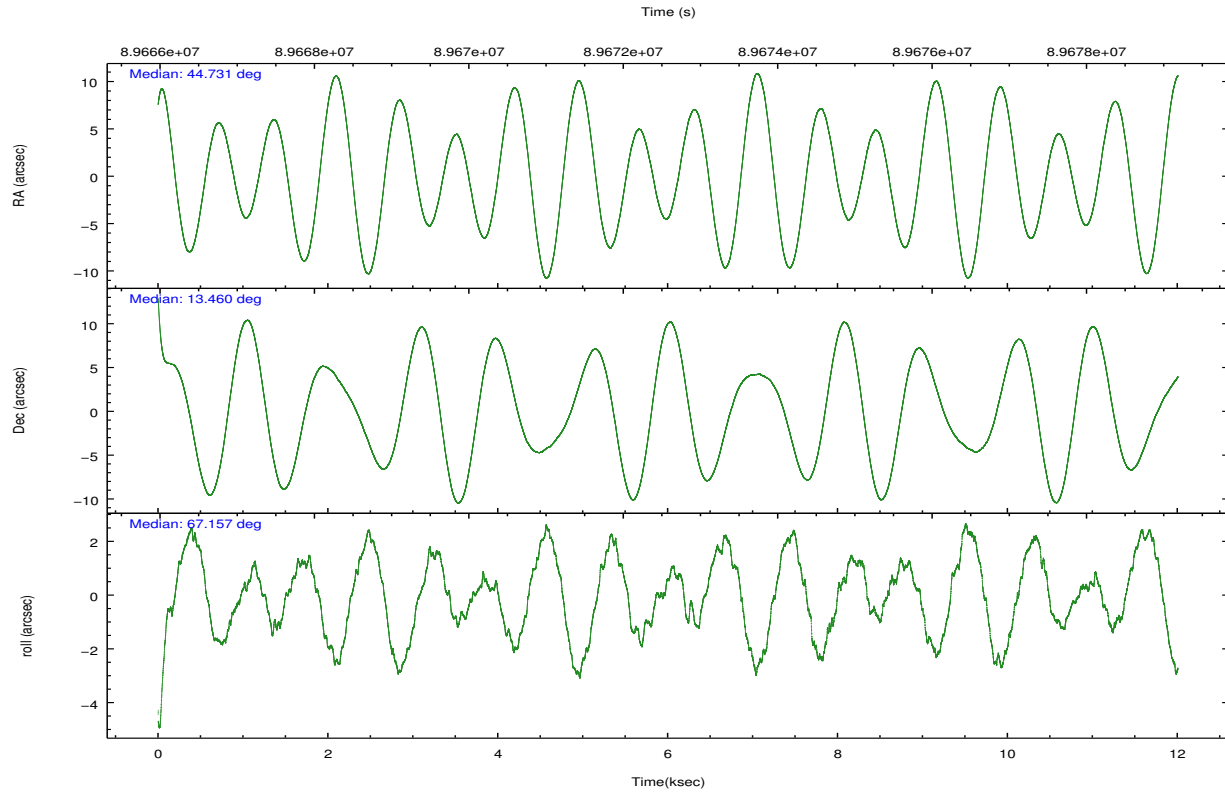
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	70615	72815	121321	80010	82977	91494	grade 0 events	6262	5117	37663	7551	7085	4337
rejected events	57578	60718	69376	65554	69080	51375		8%	7%	31%	9%	8%	4%
rejected %	81%	83%	57%	81%	83%	56%	grade 1 events	38	36	152	33	55	97
								0%	0%	0%	0%	0%	0%
							grade 2 events	2857	2687	6663	2882	2761	8139
								4%	3%	5%	3%	3%	8%
							grade 3 events	911	987	2174	884	964	3841
								1%	1%	1%	1%	1%	4%
							grade 4 events	851	896	2290	948	863	3688
								1%	1%	1%	1%	1%	4%
							grade 5 events	2290	2529	2459	2634	2929	8532
								3%	3%	2%	3%	3%	9%
							grade 6 events	2159	2417	3179	2194	2227	20125
								3%	3%	2%	2%	2%	21%
							grade 7 events	55247	58146	66741	62884	66093	42735
								78%	79%	55%	78%	79%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	44.734532	44.73105481717774	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.433170	13.46047691859337	Alternating exposures requested	N	N
[deg] Pointing Roll	66.951935	67.16143110594138	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	62.000000	62.000000			
[deg] Roll tolerance	5.000000	5.000000			
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-223.592463	-223.5905168218261			
[mm] SIM translation stage offset	-10	-10.00193618110356			
[s] Observation start time (MET)	89666825.184000	89665836.634372			
Observation start date	2000-11-03T19:26:01	2000-11-03T19:10:36			
[s] Observation end time (MET)	89678585.184000	89679159.072375			
Observation end date	2000-11-03T22:42:01	2000-11-03T22:52:39			
Read mode	TIMED	TIMED			

2.3 Aspect



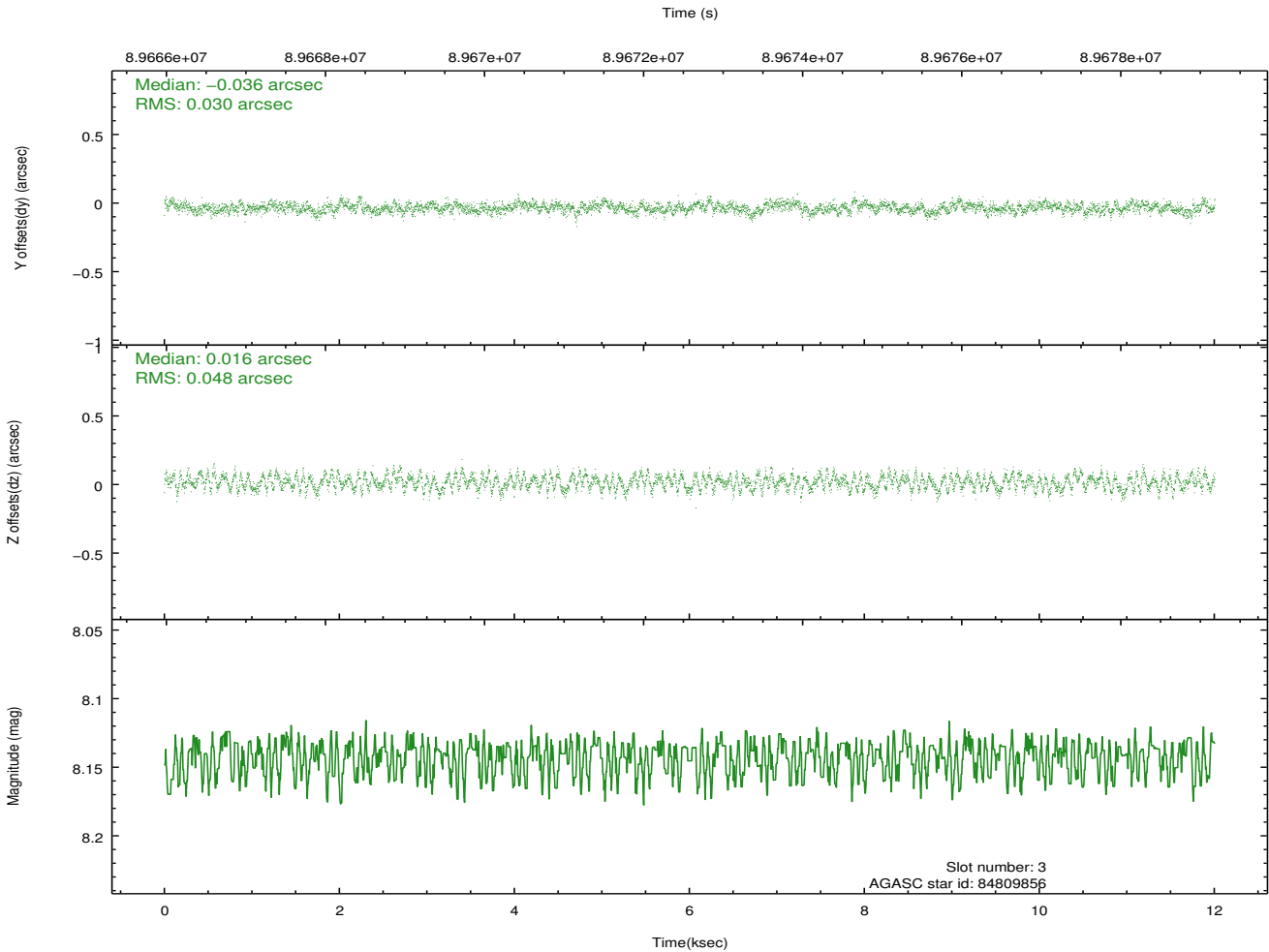
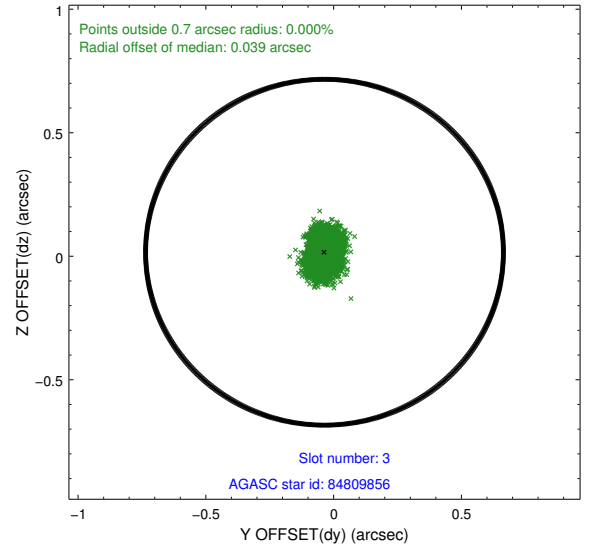
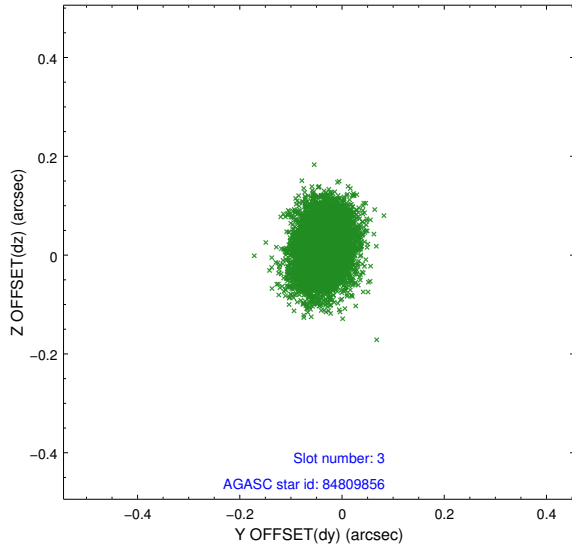


Slot Statistics

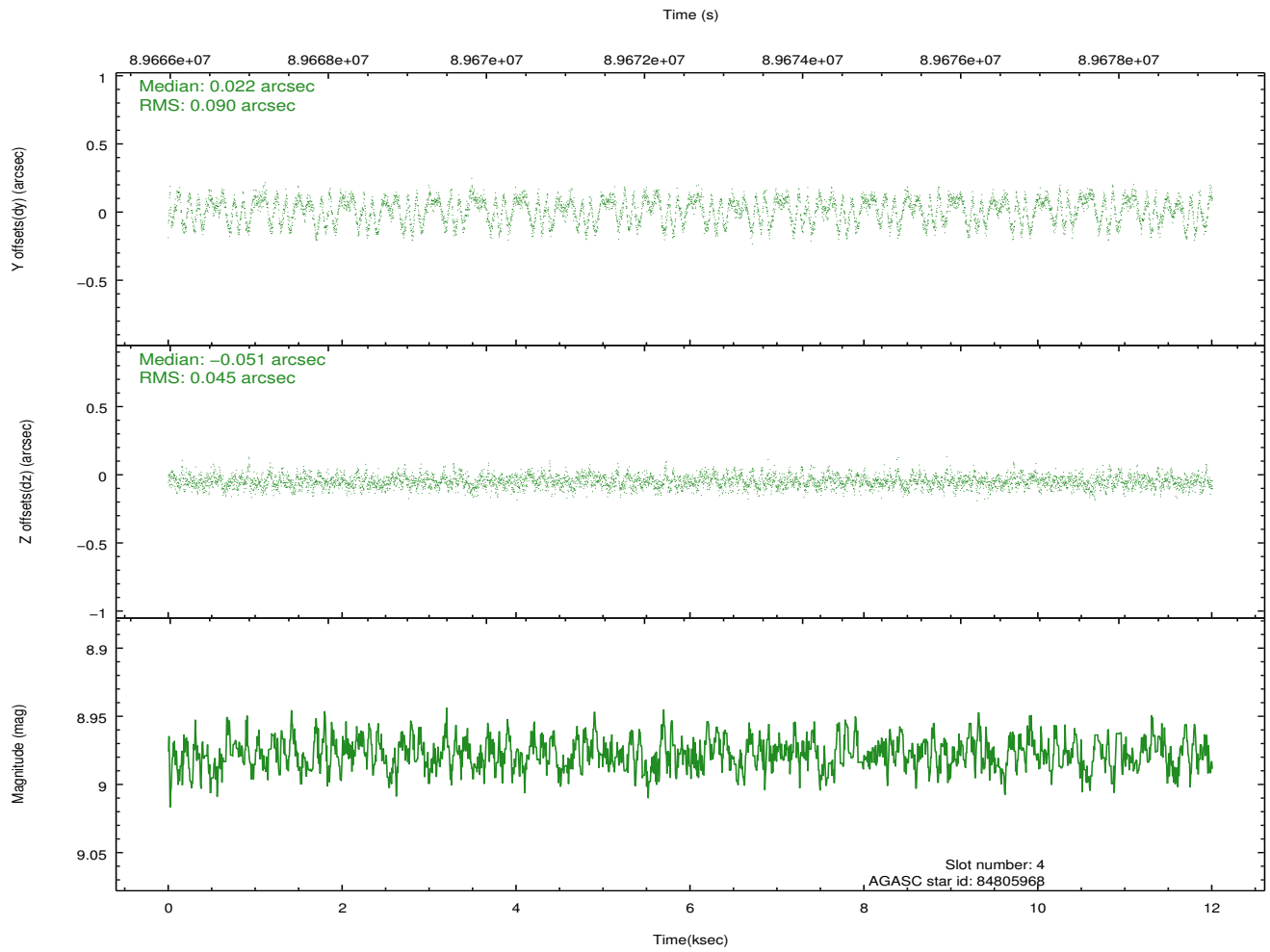
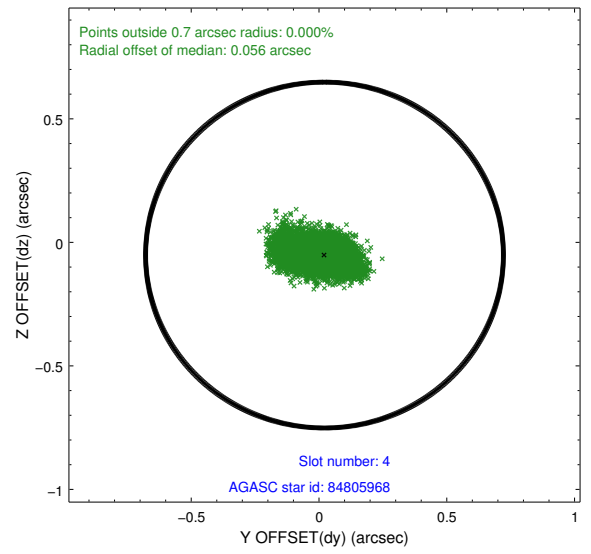
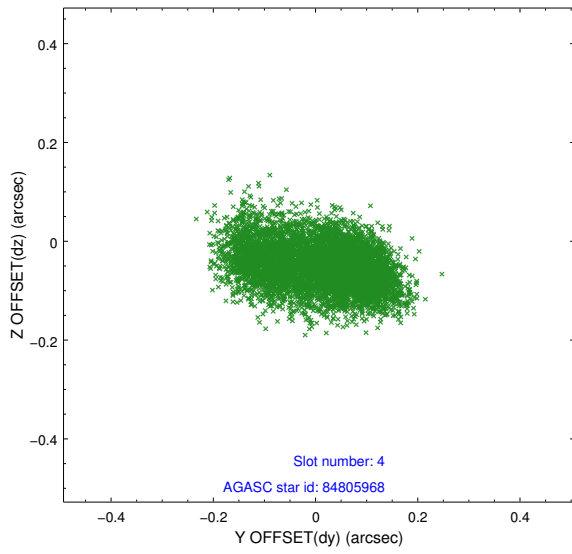
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.18	2929	-0.028	-0.044	0.009	0.016	0.000000	0.000000	-756.15	-1038.63
1	FID	ACIS-I-4	7.15	2929	-0.036	0.037	0.006	0.012	0.000000	0.000000	2157.65	867.31
2	FID	ACIS-I-5	7.22	2929	-0.037	0.076	0.009	0.015	0.000000	0.000000	-1808.94	864.36
3	GUIDE	84809856	8.14	5856	-0.036	0.016	0.061	0.097	45.191960	12.984820	-855.67	-2107.41
4	GUIDE	84805968	8.98	5853	0.022	-0.051	0.106	0.177	43.904918	13.178416	-1978.46	2318.78
5	GUIDE	84808032	8.88	5857	-0.019	-0.027	0.069	0.111	44.912435	14.042740	2262.22	288.63
6	GUIDE	84808960	9.40	5856	-0.029	0.007	0.095	0.149	44.448867	14.070045	1719.86	1816.60
7	GUIDE	84805616	9.70	5784	0.077	0.054	0.086	0.139	44.861273	12.755618	-2069.75	-1363.66

2.4 Star Slots

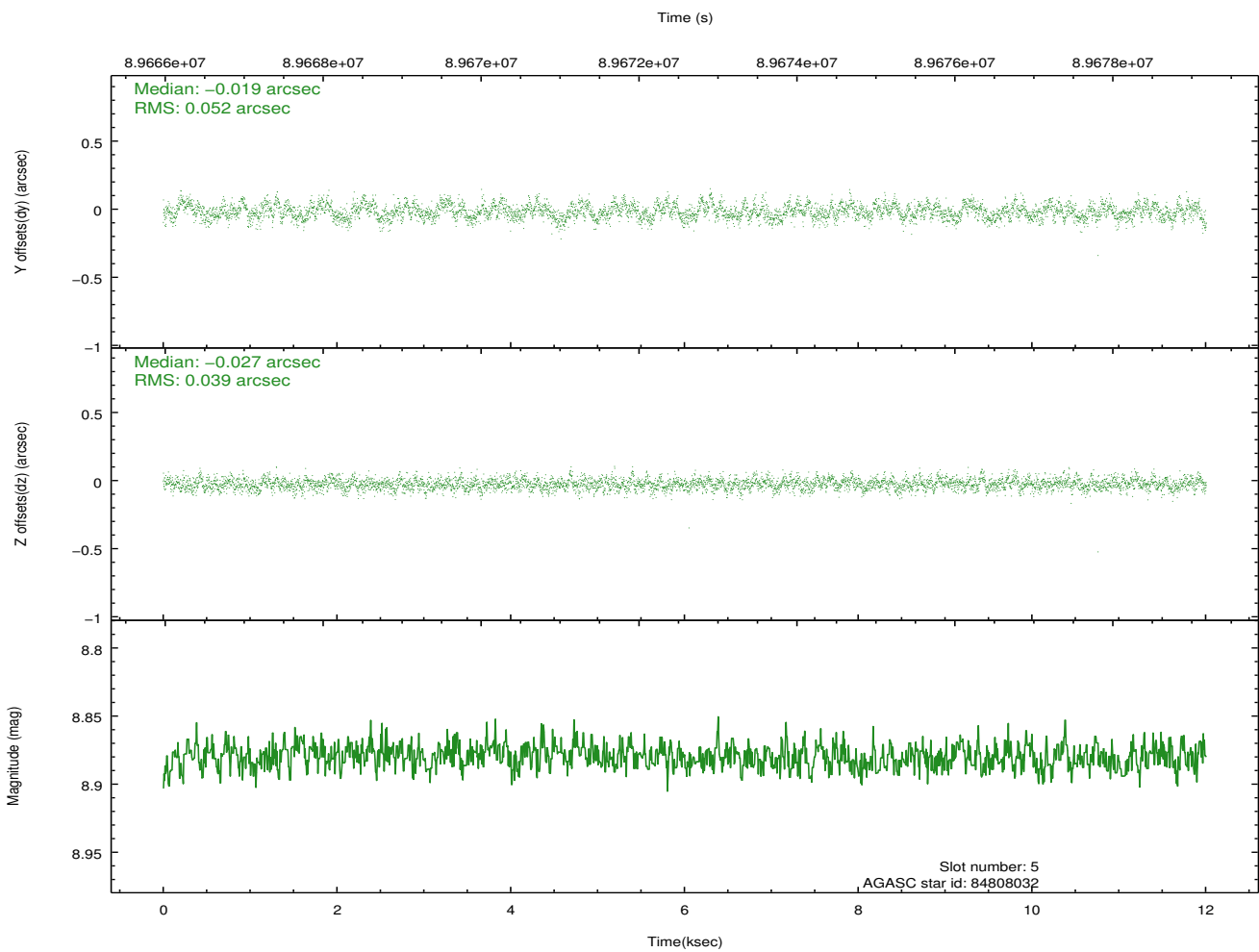
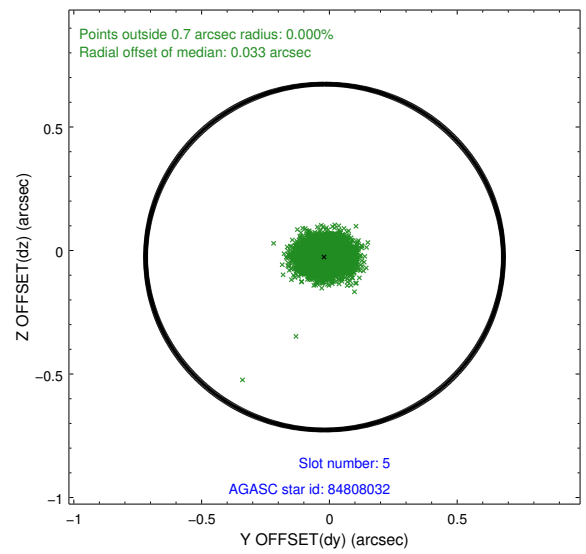
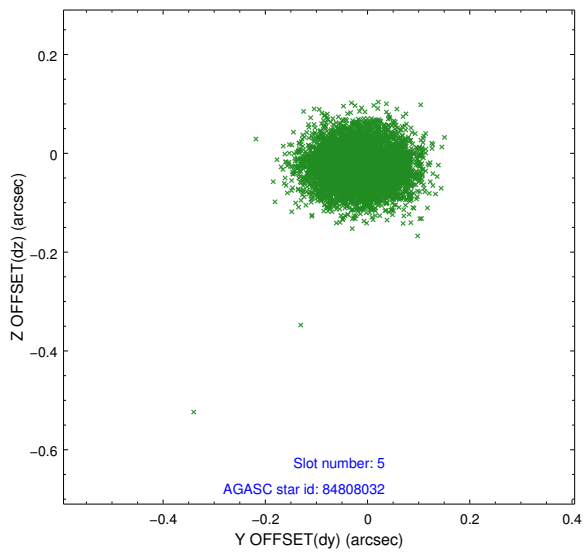
2.4.1 Slot 3



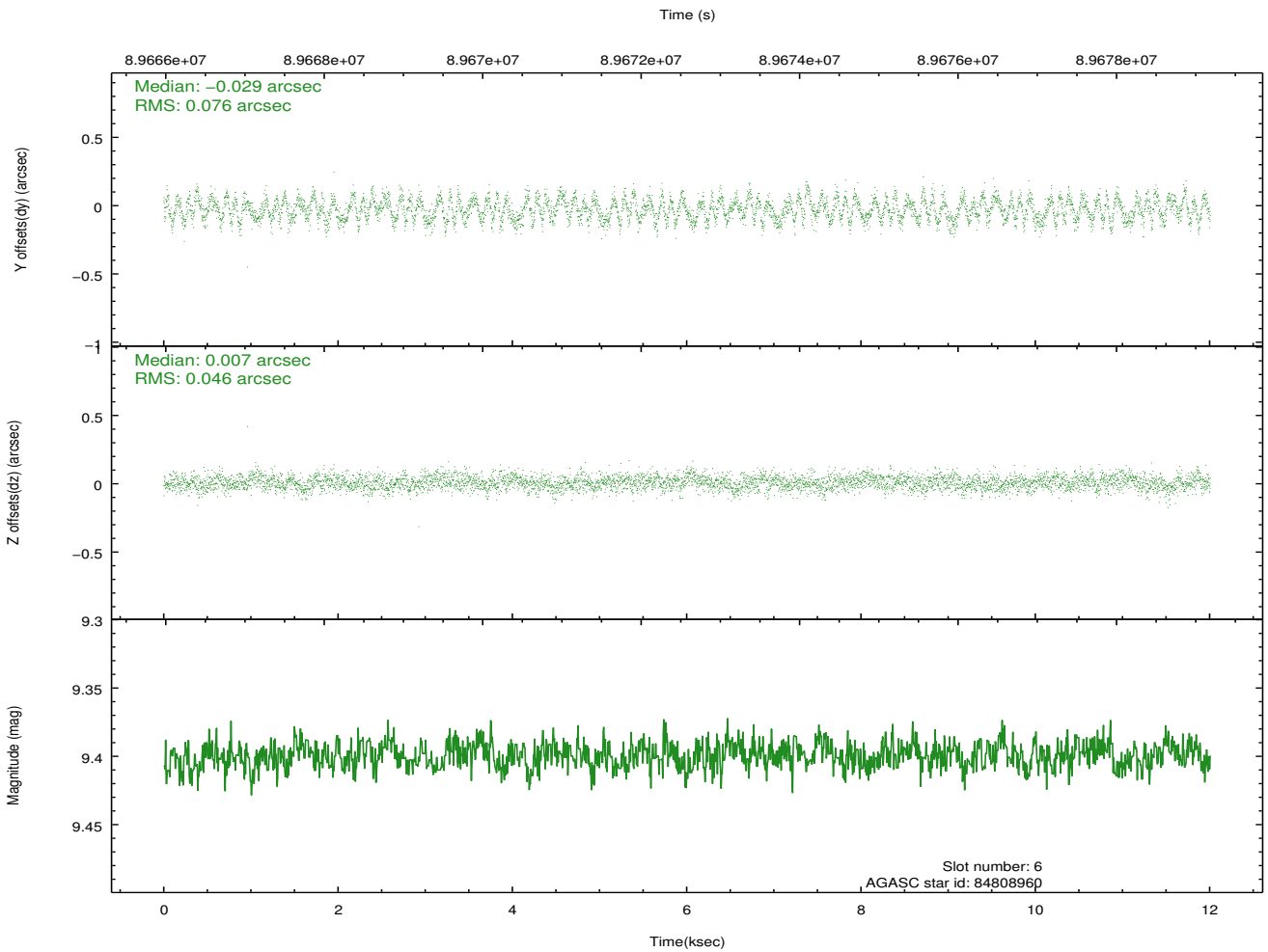
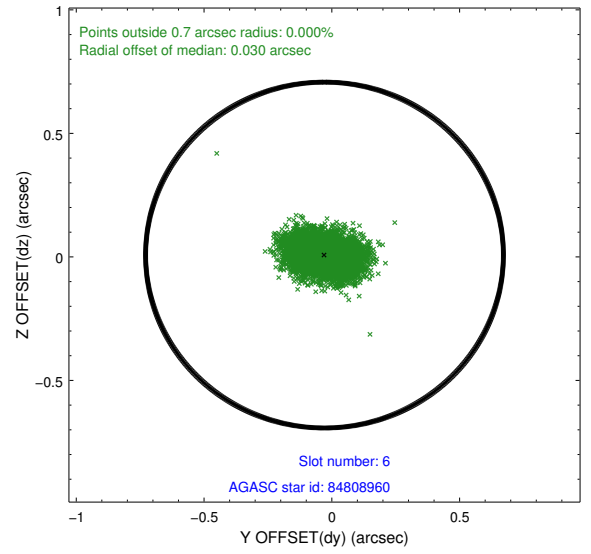
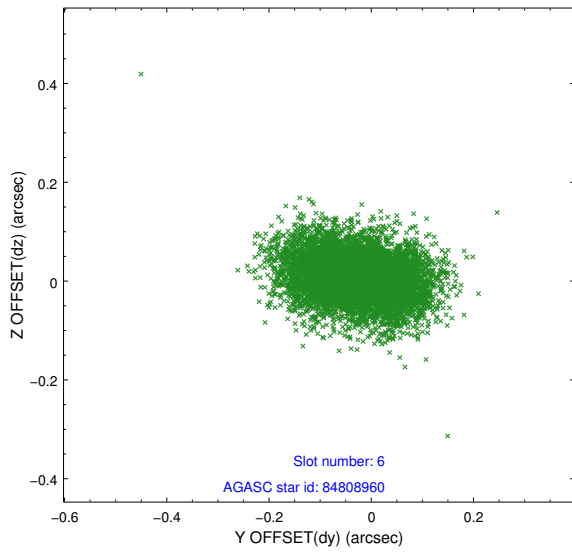
2.4.2 Slot 4



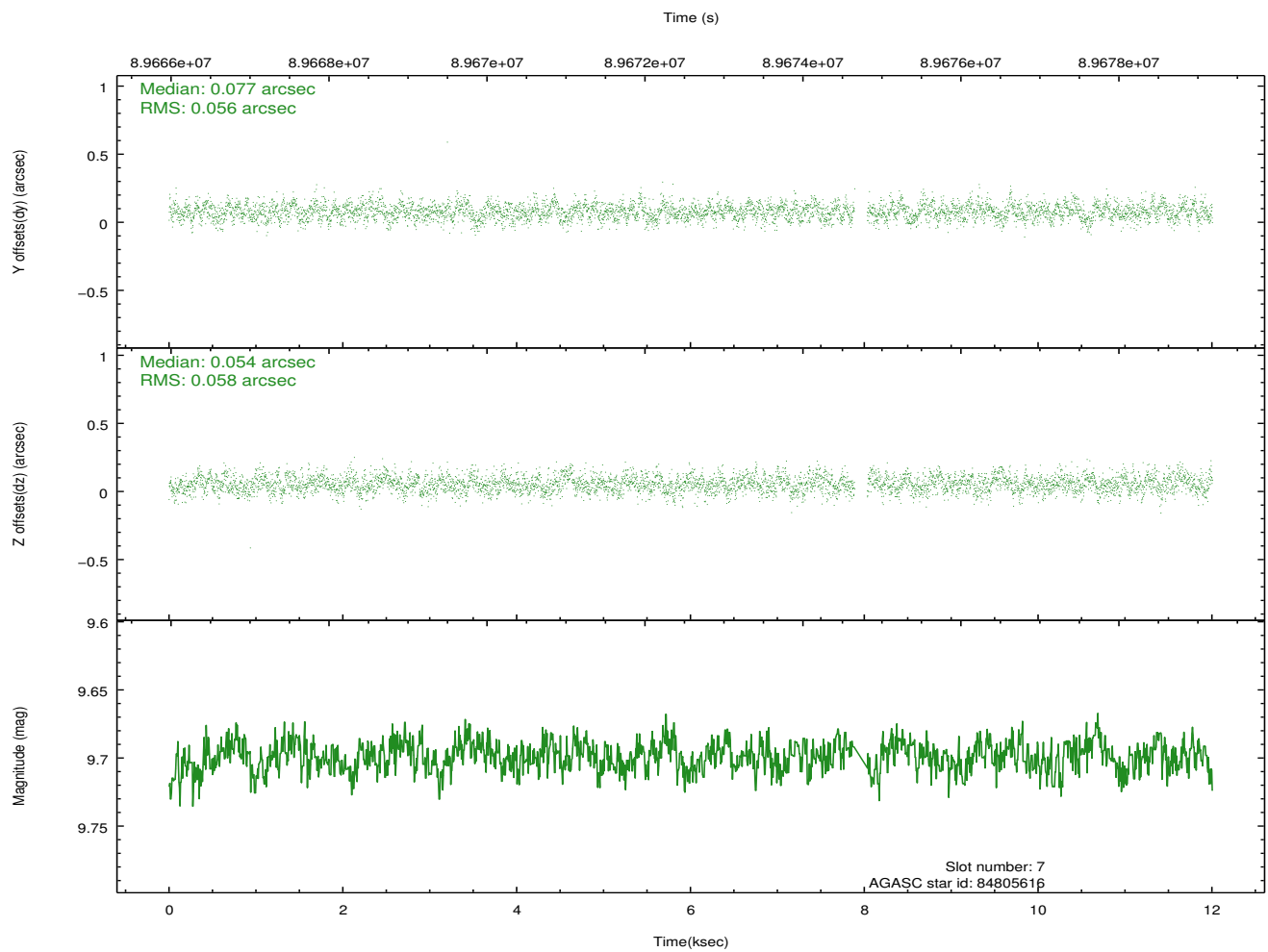
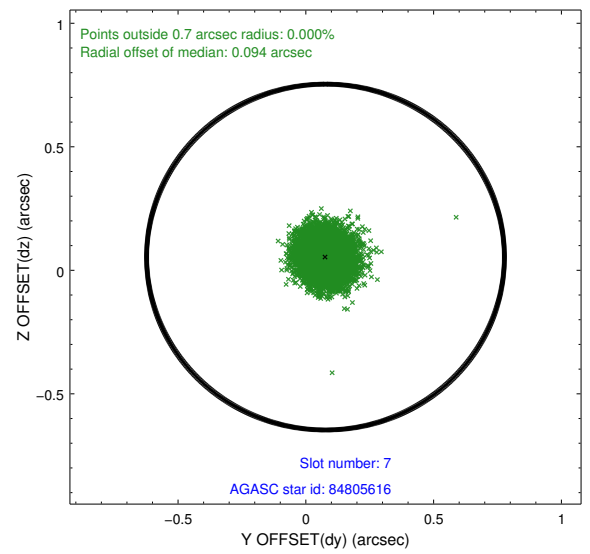
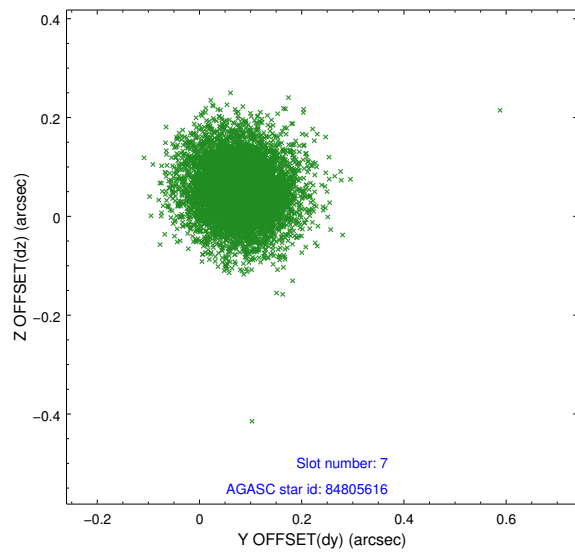
2.4.3 Slot 5



2.4.4 Slot 6

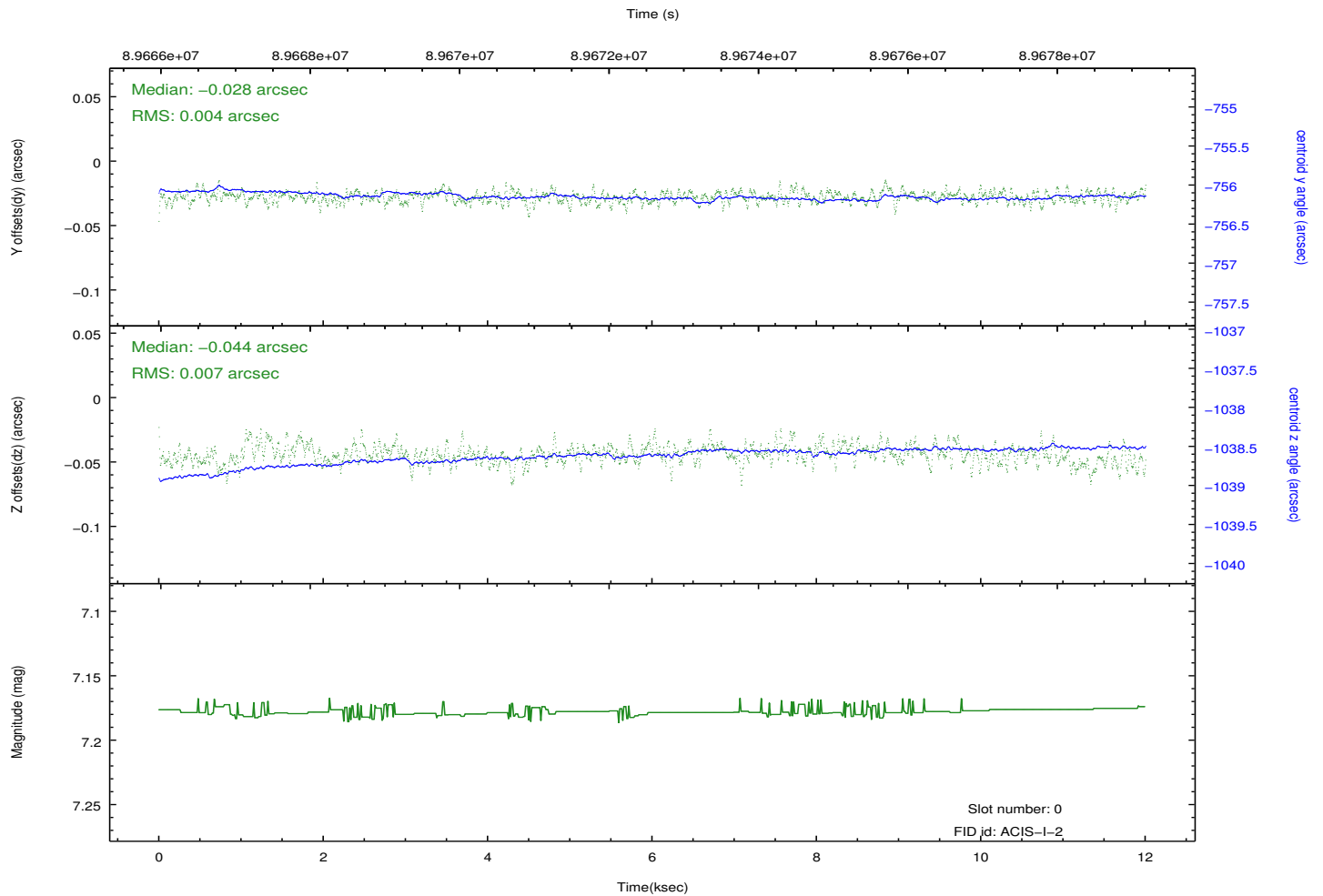
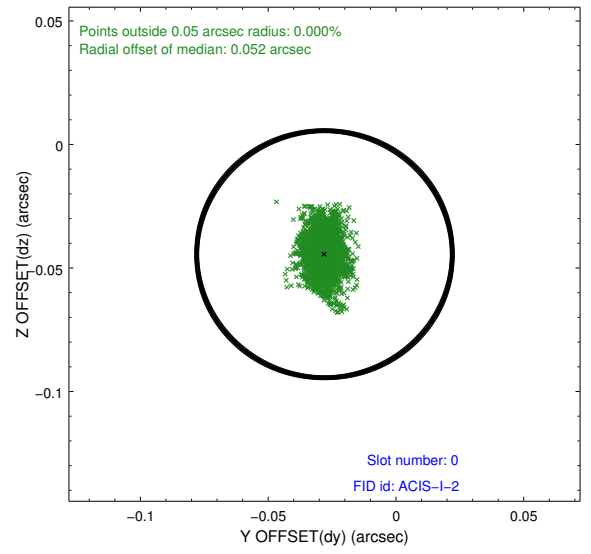
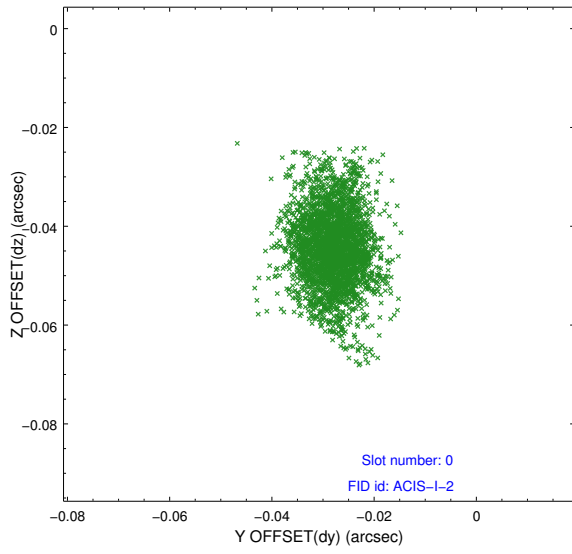


2.4.5 Slot 7

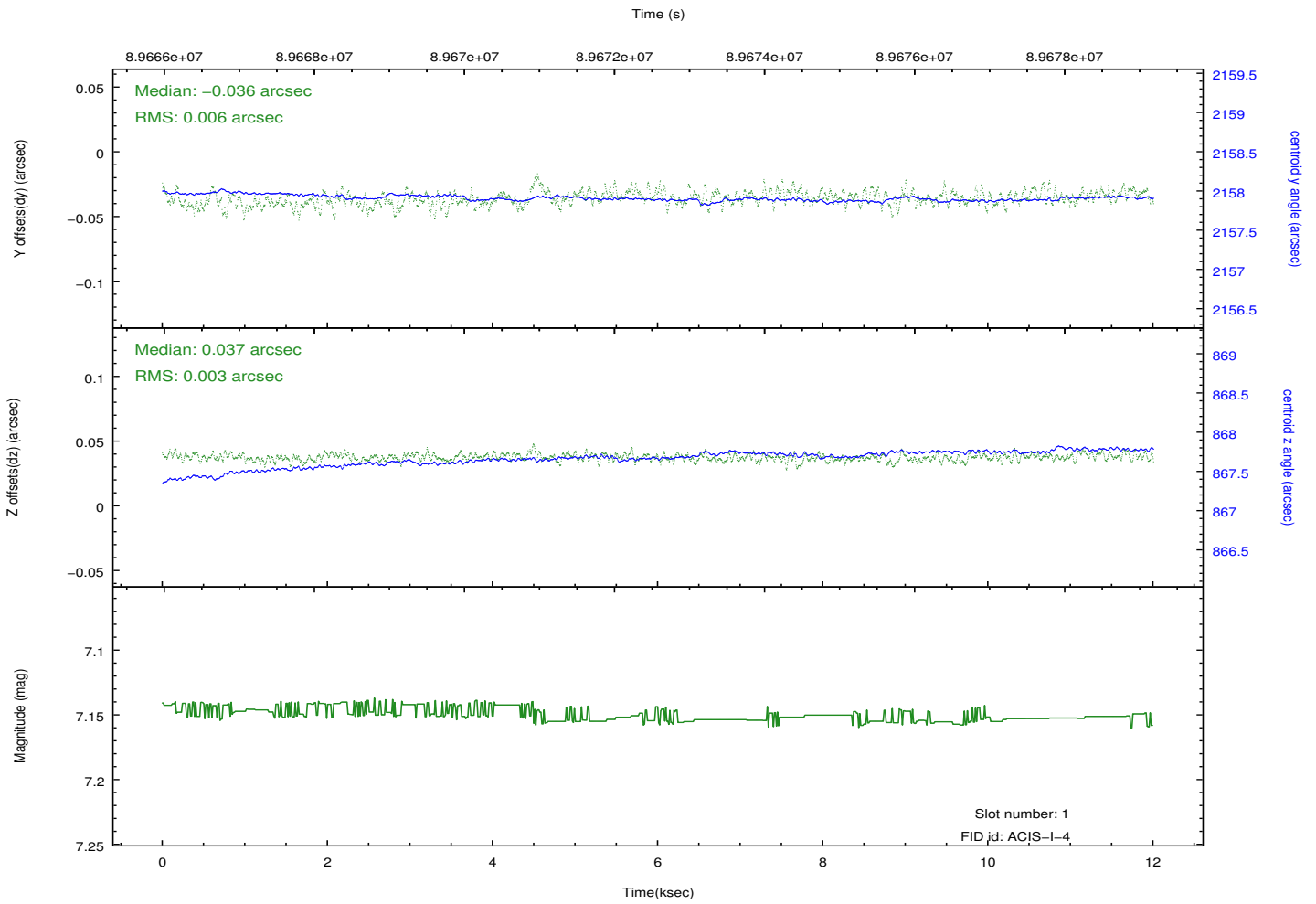
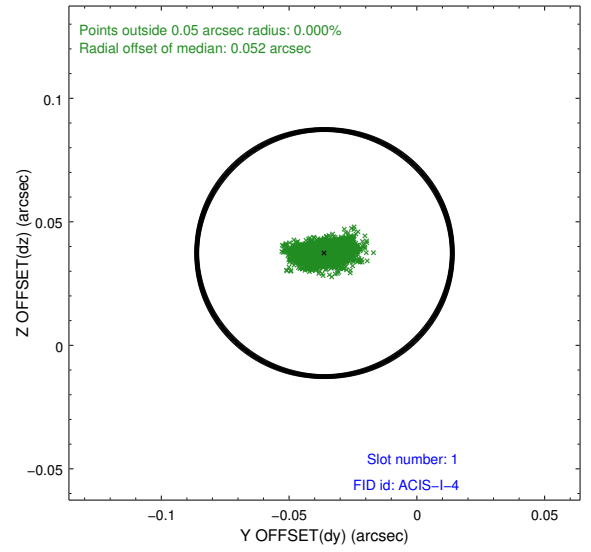
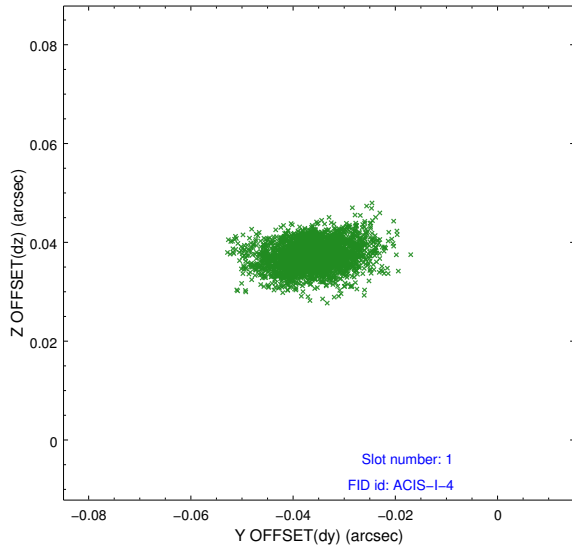


2.5 FID Slots

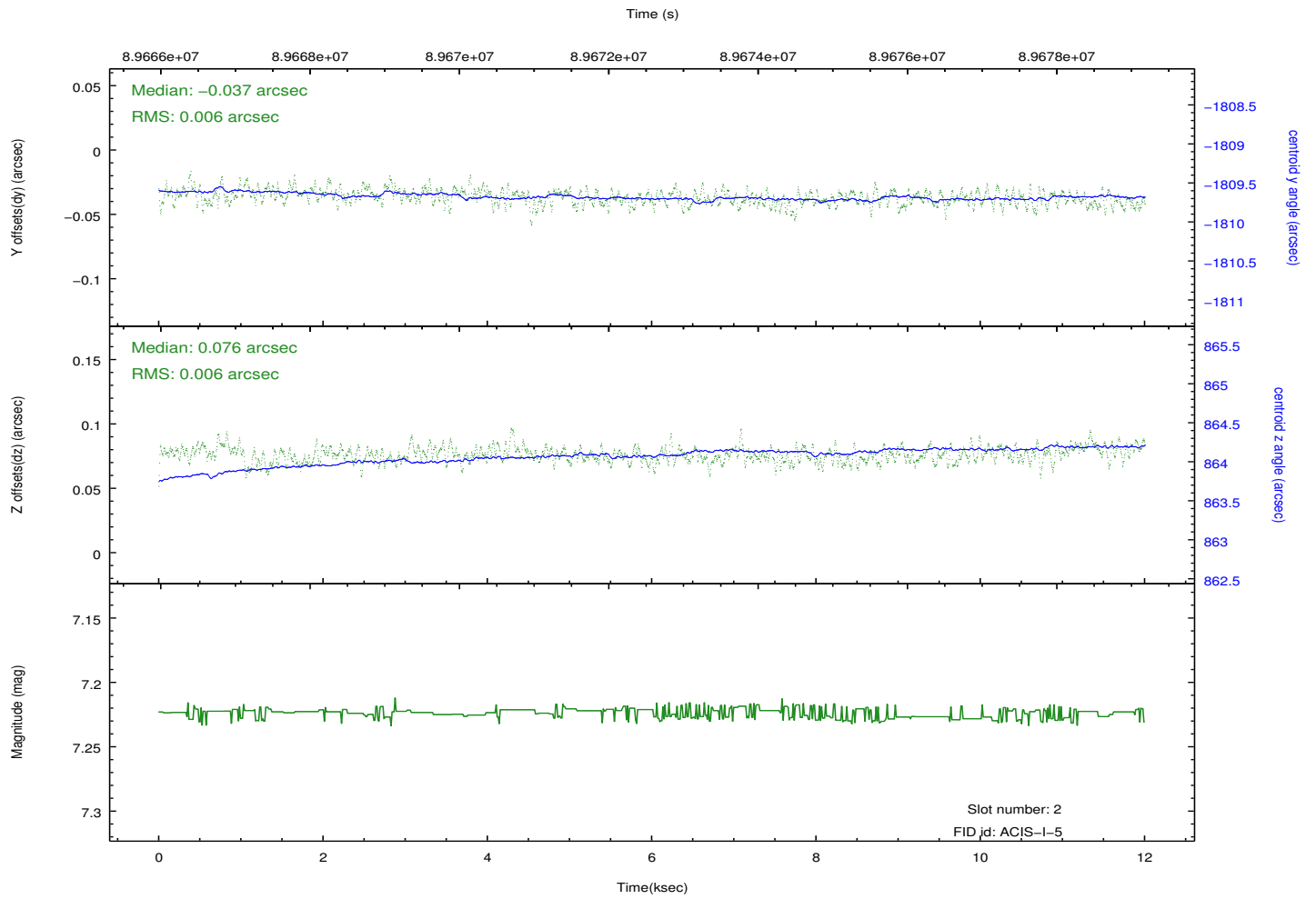
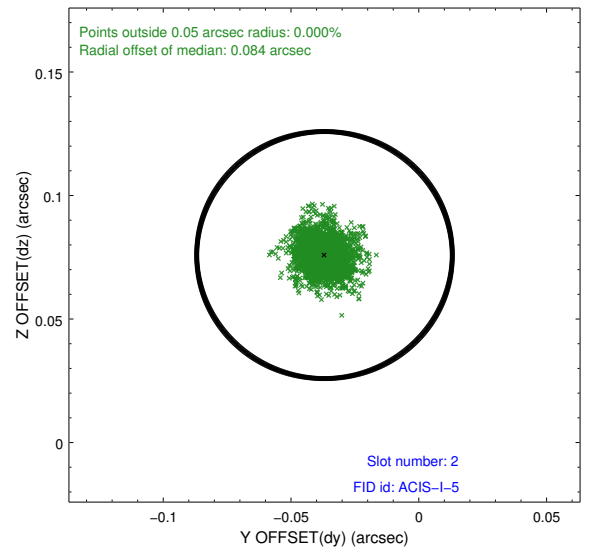
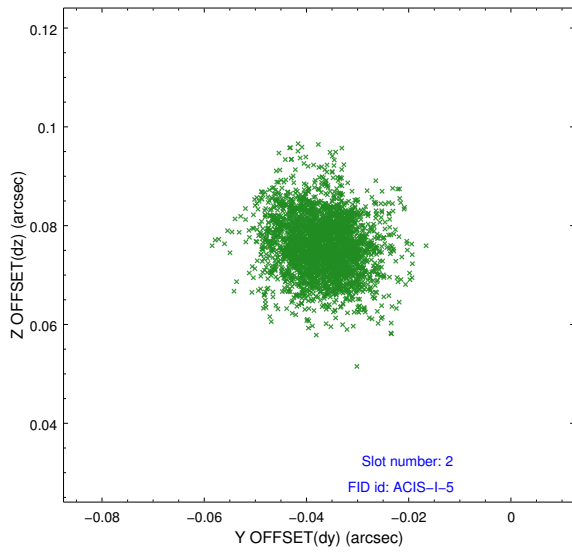
2.5.1 Slot 0



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)	2012.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.718

A.2 Comments