

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 88 - L2 Version 5
Chandra X-Ray Center

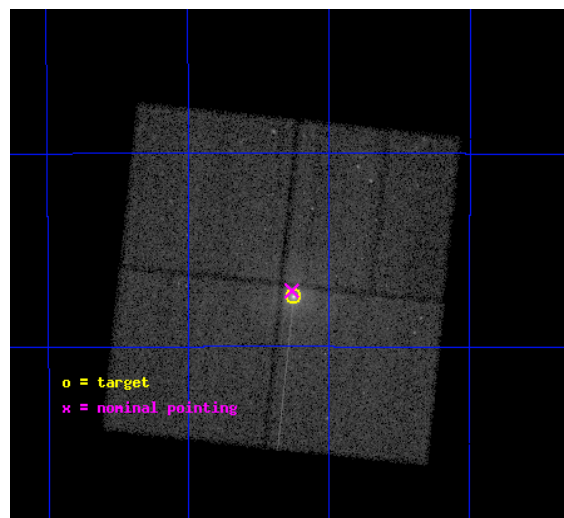
L2 Processing Date : Sep 4 2012

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1 Front

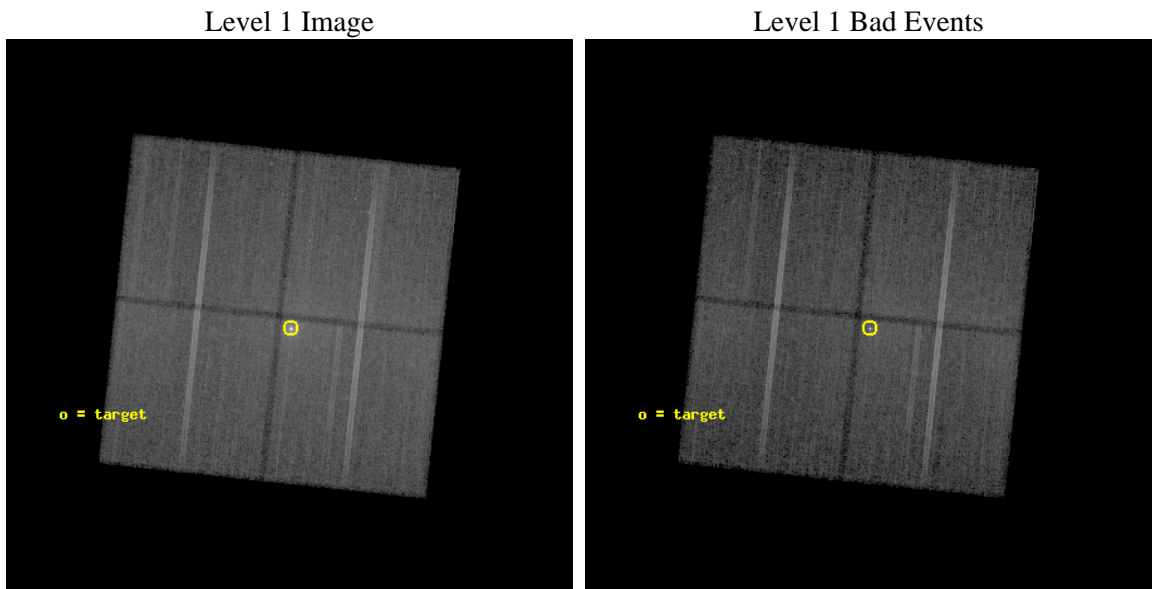
seq_num	400001	Sequence number
obs_id	88	Observation id
title	ECLIPSING BINARY X-RAY HALOS AND INTERSTELLAR GRAIN PROPERTIES	Pro
observer	Professor Gordon Garmire	Principal investigator
object	CEN X-3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	170.313333	Observer's specified target RA [deg]
dec_targ	-60.623333	Observer's specified target Dec [deg]
ra_nom	170.31623535141	Nominal RA [deg]
dec_nom	-60.618704492876	Nominal Dec [deg]
roll_nom	96.067194016328	Nominal Roll [deg]
revision	5	Processing version of data
ontime	40144.000037372	Sum of GTIs [s]
livetime	39635.672537084	Livetime [s]
ontime0	40144.000037372	Sum of GTIs [s]
ontime1	40144.000037372	Sum of GTIs [s]
ontime2	40140.759077132	Sum of GTIs [s]
ontime3	40144.000037372	Sum of GTIs [s]
l2events	221590	Number of level 2 events



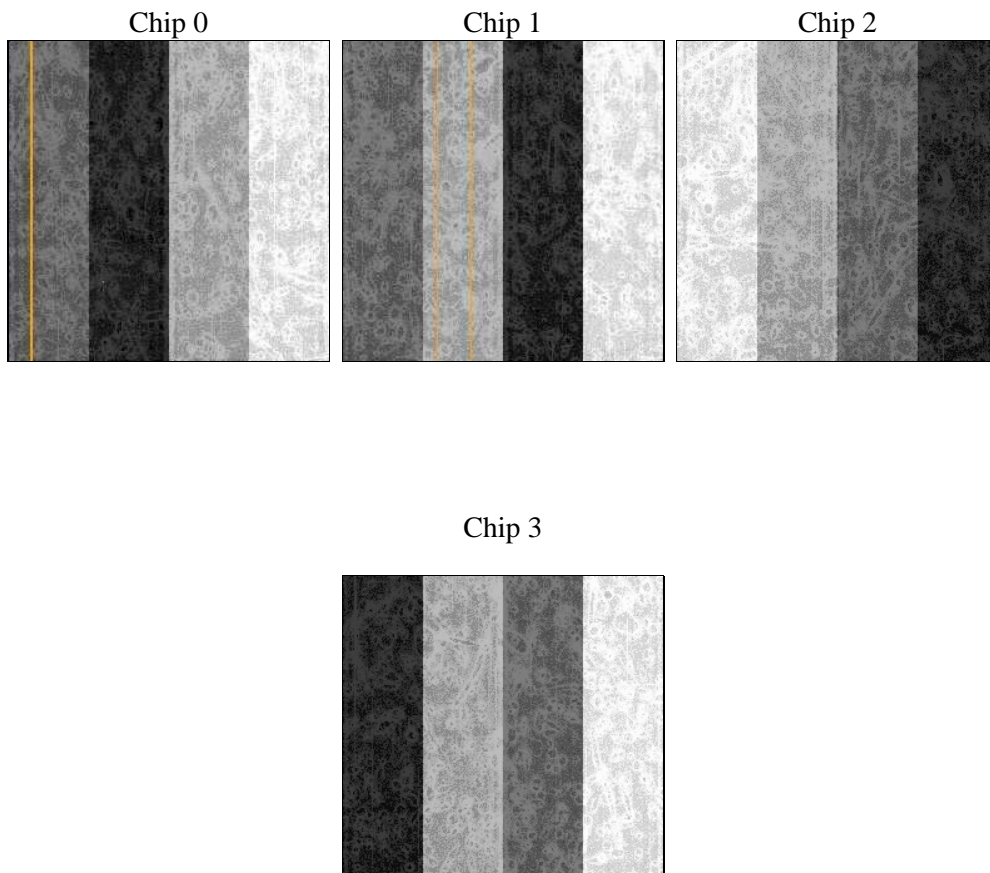
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40144.000037372	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	40144.000037372	Sum of GTIs [s]
date	2012-09-04T18:21:50	Date and time of file creation	ontime1	40144.000037372	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	40140.759077132	Sum of GTIs [s]
			ontime3	40144.000037372	Sum of GTIs [s]
			l1events	1295247	Number of level 1 events

2.1.4 Events

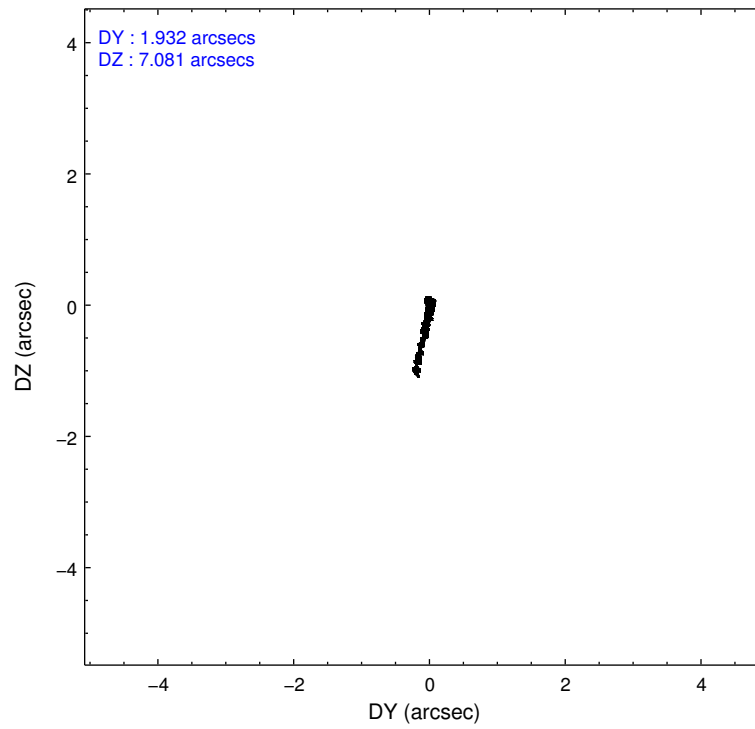
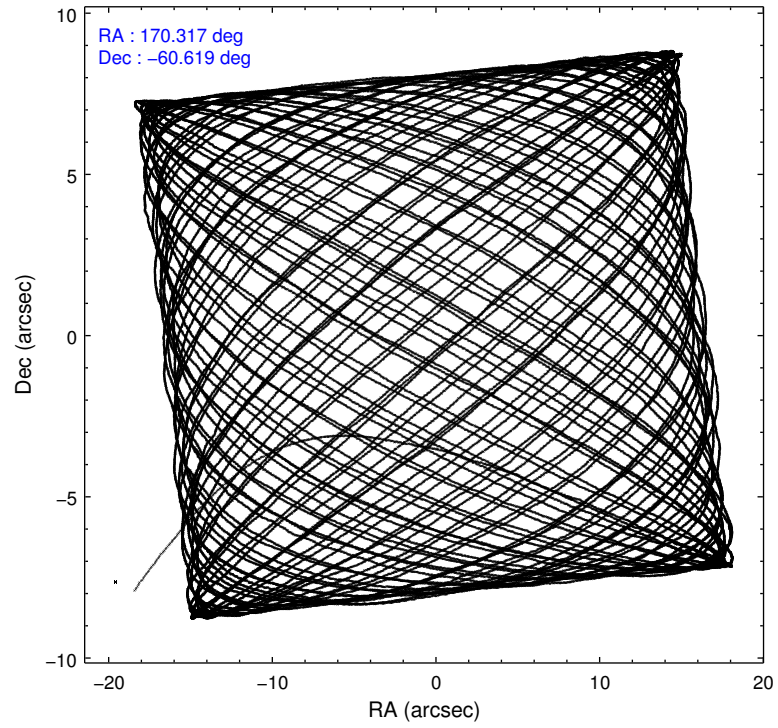
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	292466	303162	341765	357854
rejected events	232549	243850	277948	280319
rejected %	79%	80%	81%	78%

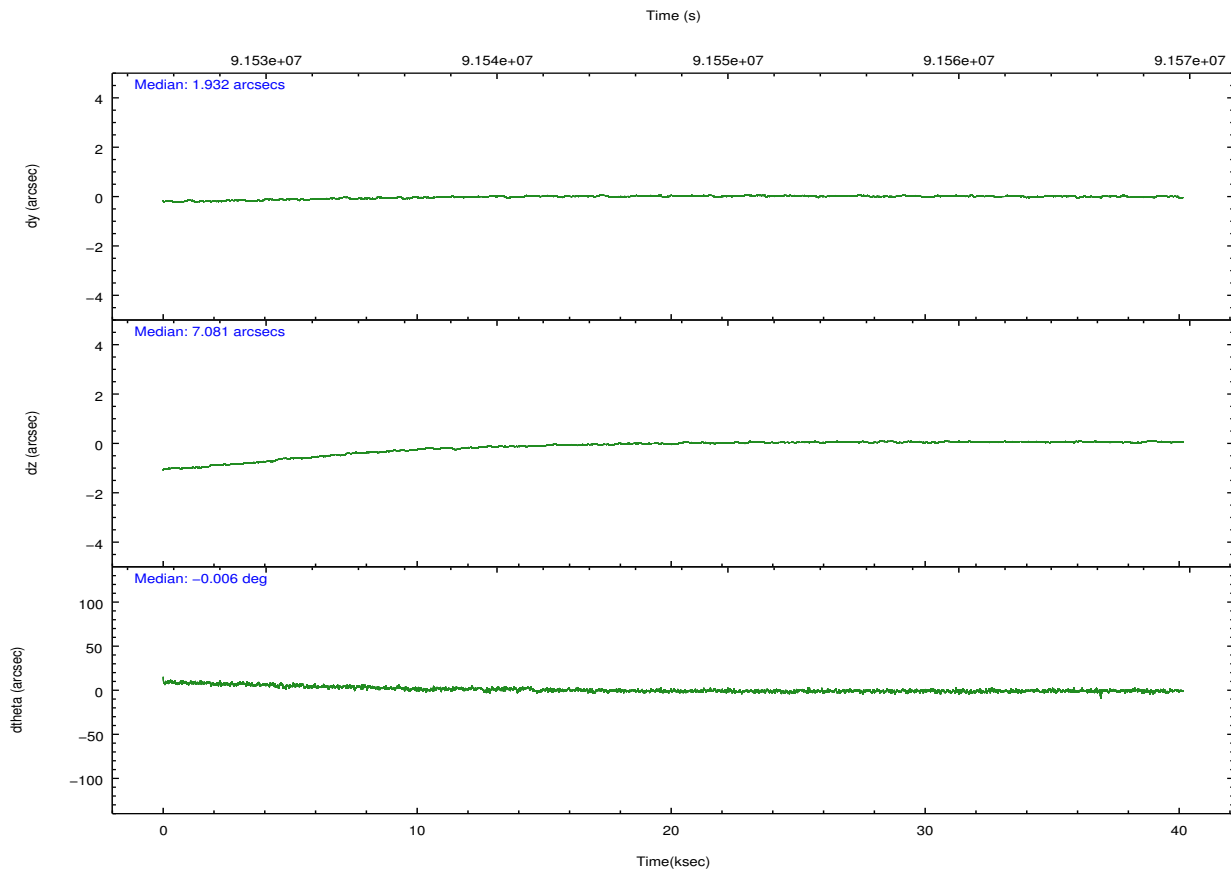
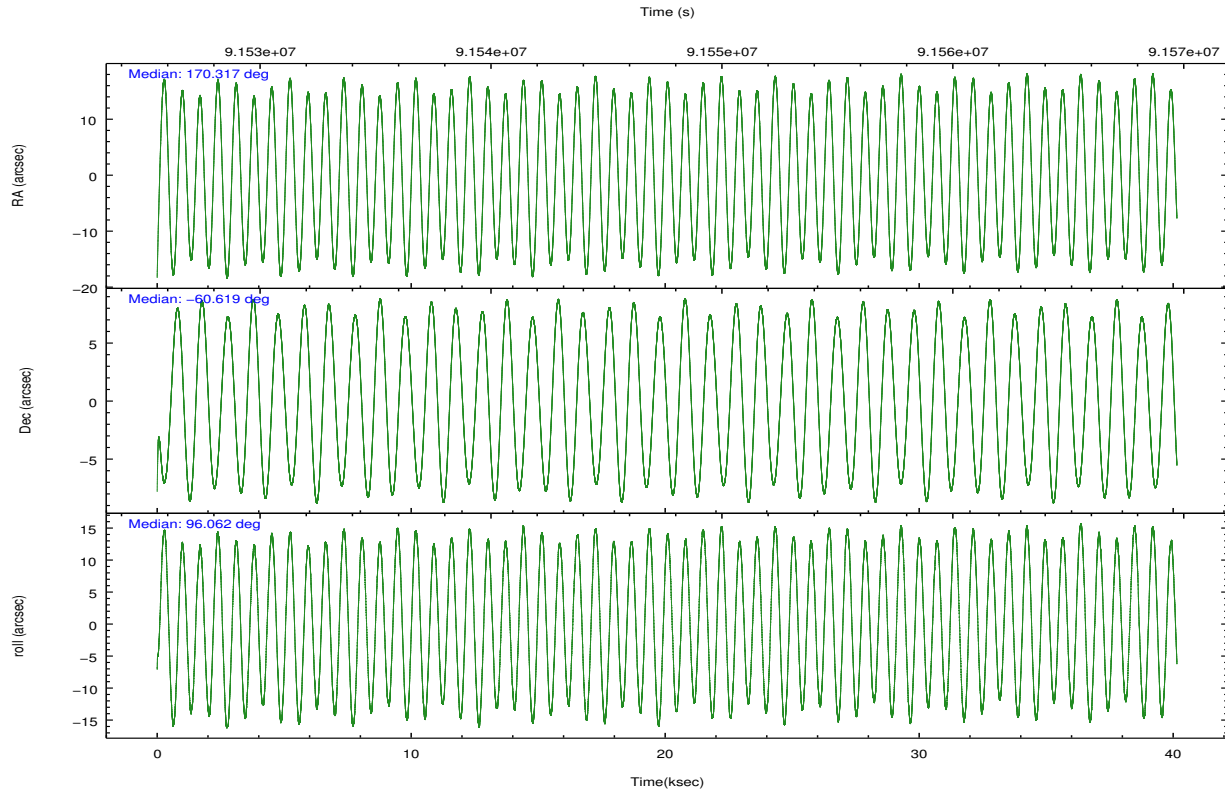
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	29009	27678	31922	38943
	9%	9%	9%	10%
grade 1 events	209	181	233	943
	0%	0%	0%	0%
grade 2 events	15353	13955	14667	16941
	5%	4%	4%	4%
grade 3 events	3455	3963	3518	4477
	1%	1%	1%	1%
grade 4 events	3562	4037	4411	4721
	1%	1%	1%	1%
grade 5 events	8576	9252	8345	10400
	2%	3%	2%	2%
grade 6 events	9795	11056	10575	13771
	3%	3%	3%	3%
grade 7 events	222507	233040	268094	267658
	76%	76%	78%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	170.349149	170.3162353514088	Subarray requested	NONE	NONE
[deg] Pointing Dec	-60.640965	-60.61870449287601	Alternating exposures requested	N	N
[deg] Pointing Roll	95.887193	96.06719401632824	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	91497664.184000	91497664.184000			
[s] Window stop time (MET)	91584102.184000	91584102.184000			
[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)	91527701.184000	91526251.16764399			
Observation start date	2000-11-25T08:20:37	2000-11-25T07:57:31			
[s] Observation end time (MET)	91567701.184000	91568543.18176			
Observation end date	2000-11-25T19:27:17	2000-11-25T19:42:23			
Read mode	TIMED	TIMED			

2.3 Aspect



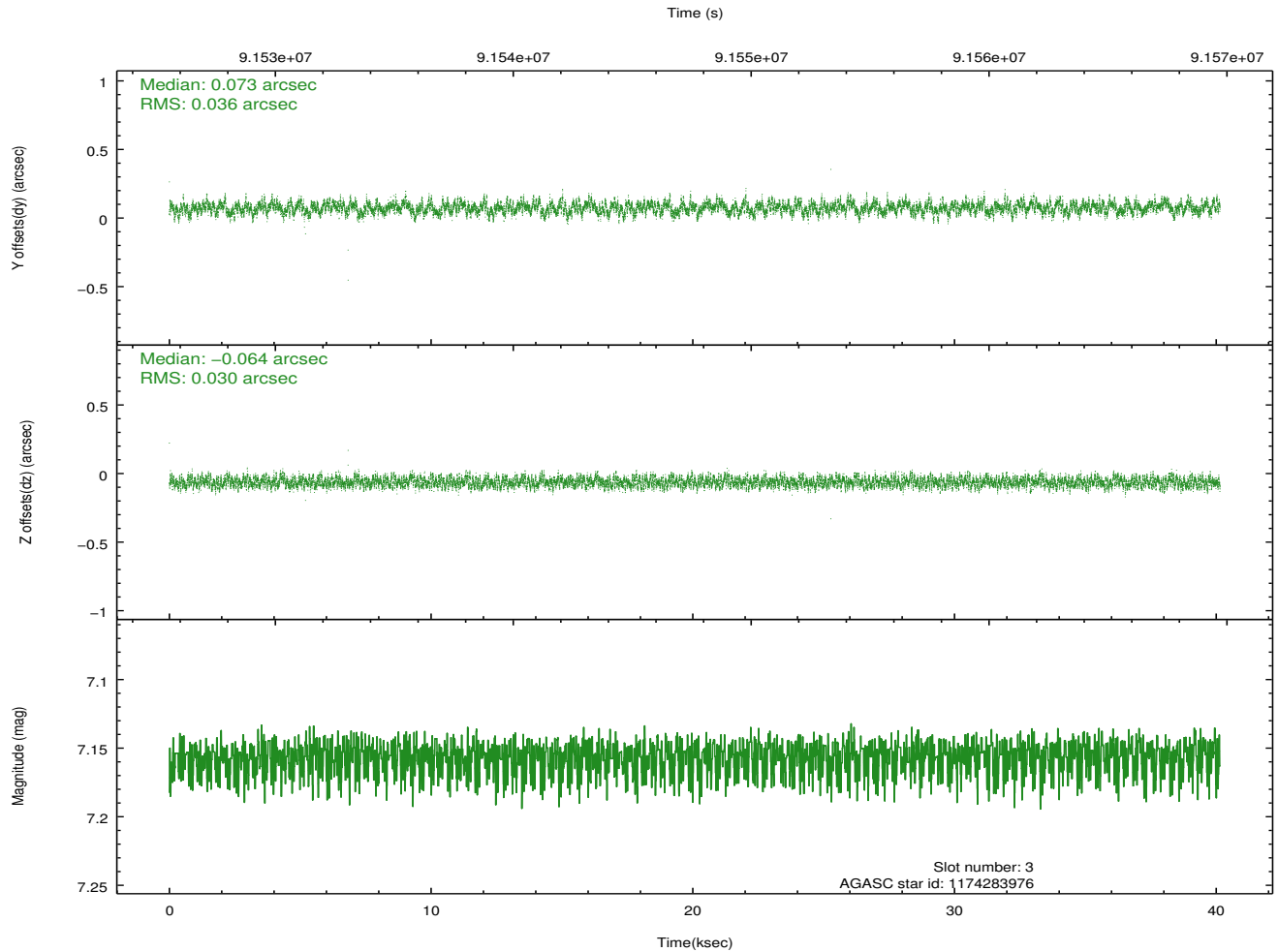
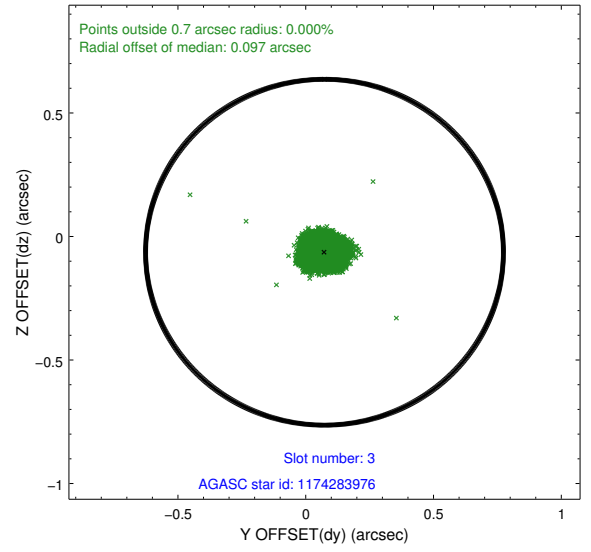
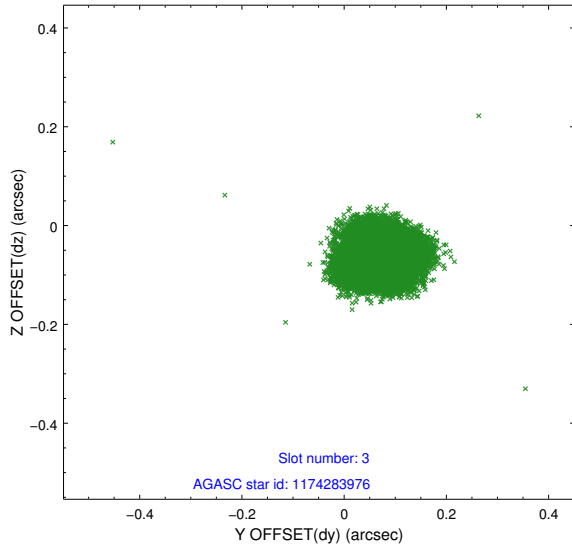


Slot Statistics

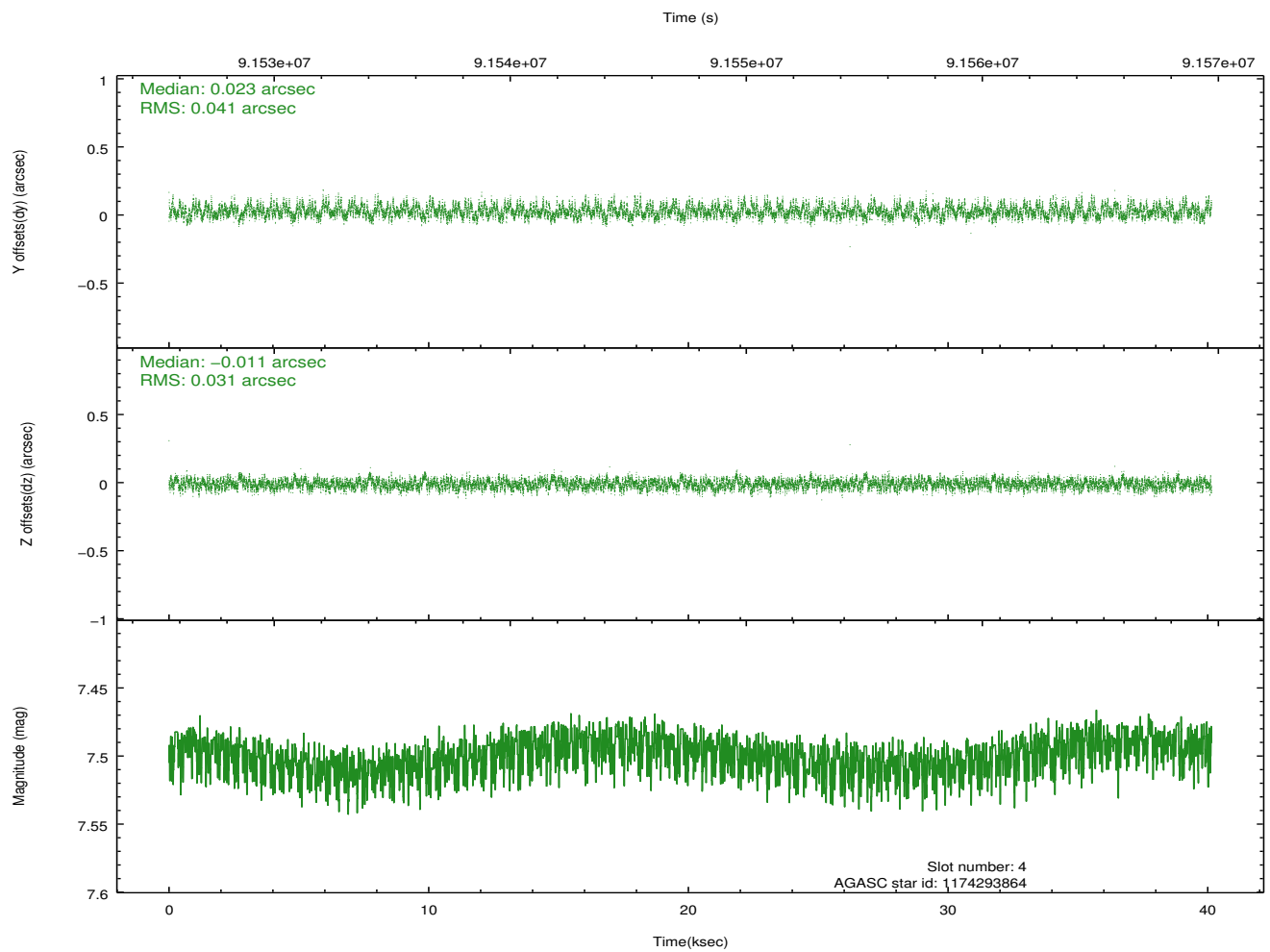
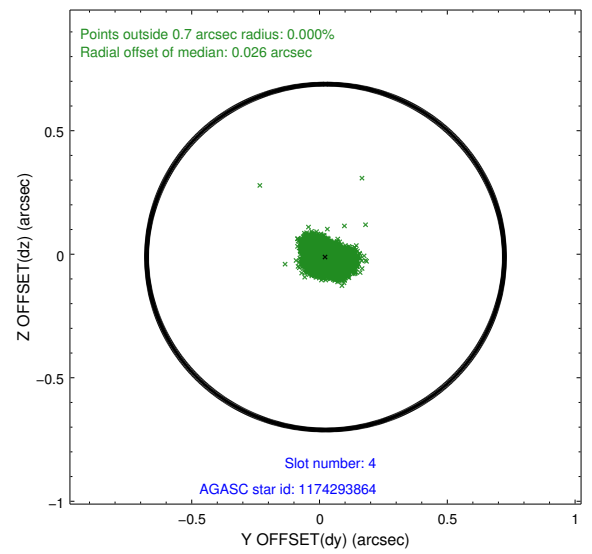
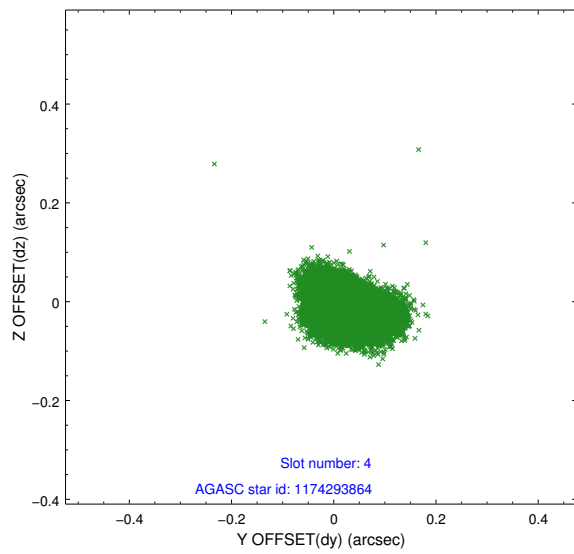
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
1	FID	ACIS-I-4	7.18	9792	-0.044	0.023	0.006	0.012	0.000000	0.000000	2157.77	1069.72
2	FID	ACIS-I-6	7.26	9793	-0.024	0.018	0.006	0.012	0.000000	0.000000	403.72	1711.73
3	GUIDE	1174283976	7.16	19584	0.073	-0.064	0.051	0.080	170.390254	-61.226219	-2103.20	145.80
4	GUIDE	1174293864	7.50	19585	0.023	-0.011	0.054	0.089	170.089015	-61.097044	-1587.99	619.36
5	GUIDE	1174285376	7.73	19584	0.020	-0.088	0.052	0.082	169.630551	-60.244001	1545.93	1132.13
6	GUIDE	1174291288	8.38	19583	0.011	0.026	0.058	0.092	171.098092	-60.555450	162.84	-1348.35
7	GUIDE	1174293608	8.85	19581	-0.129	0.135	0.082	0.133	171.337887	-60.017603	2036.51	-1997.24

2.4 Star Slots

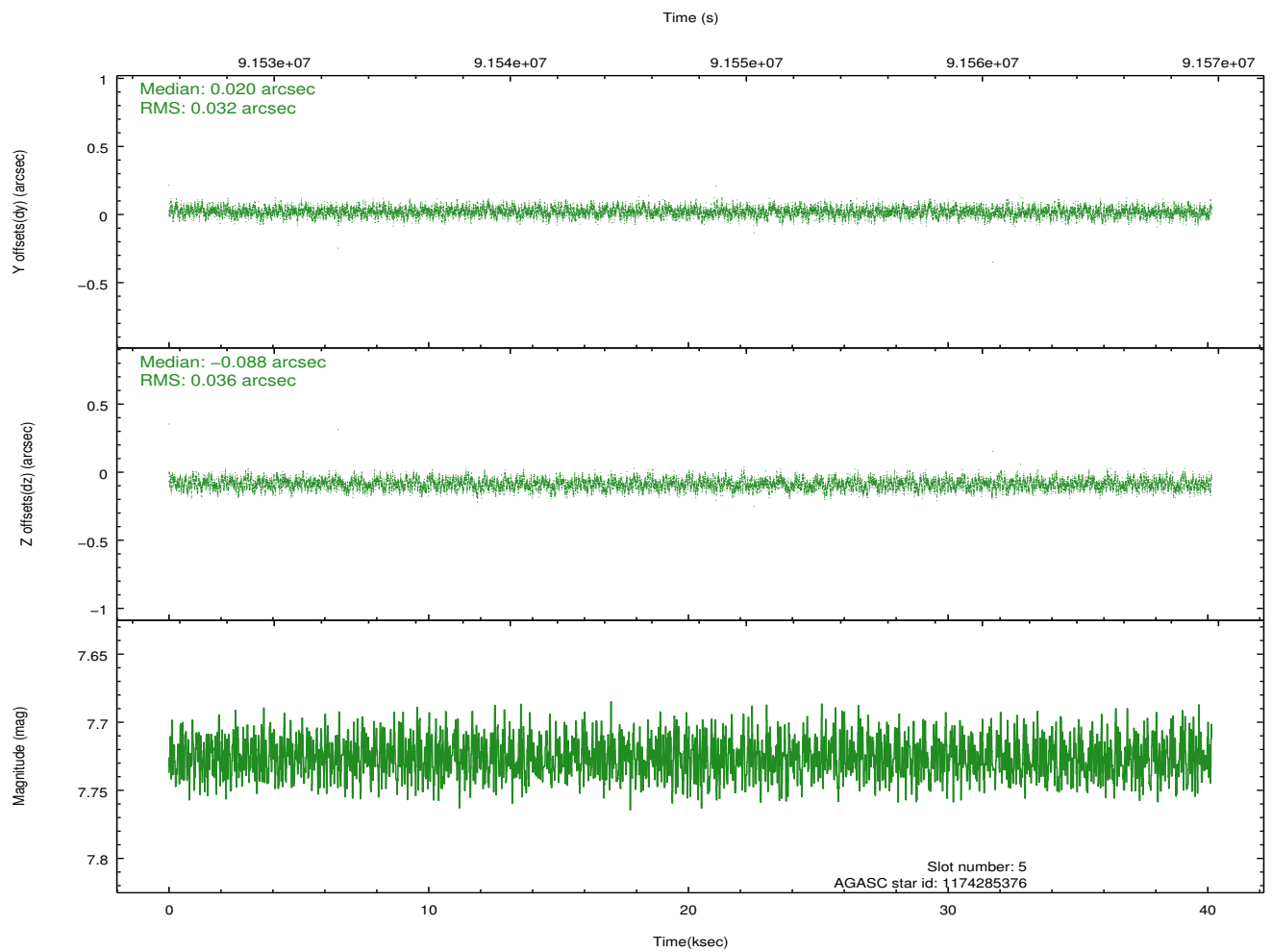
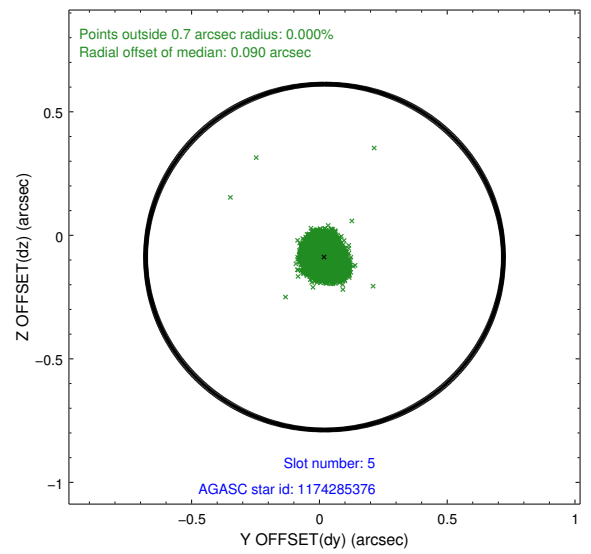
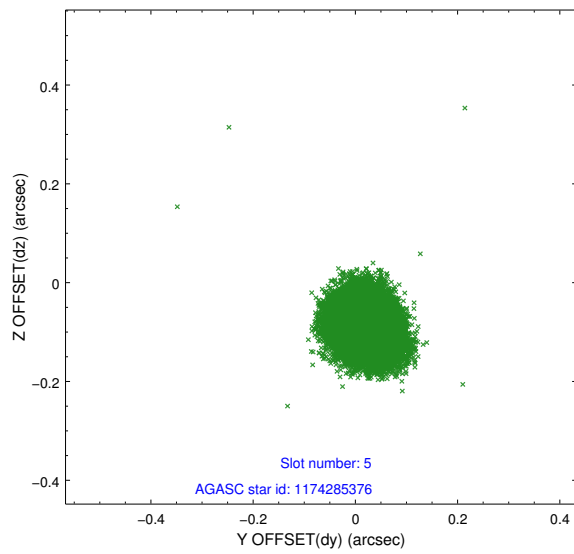
2.4.1 Slot 3



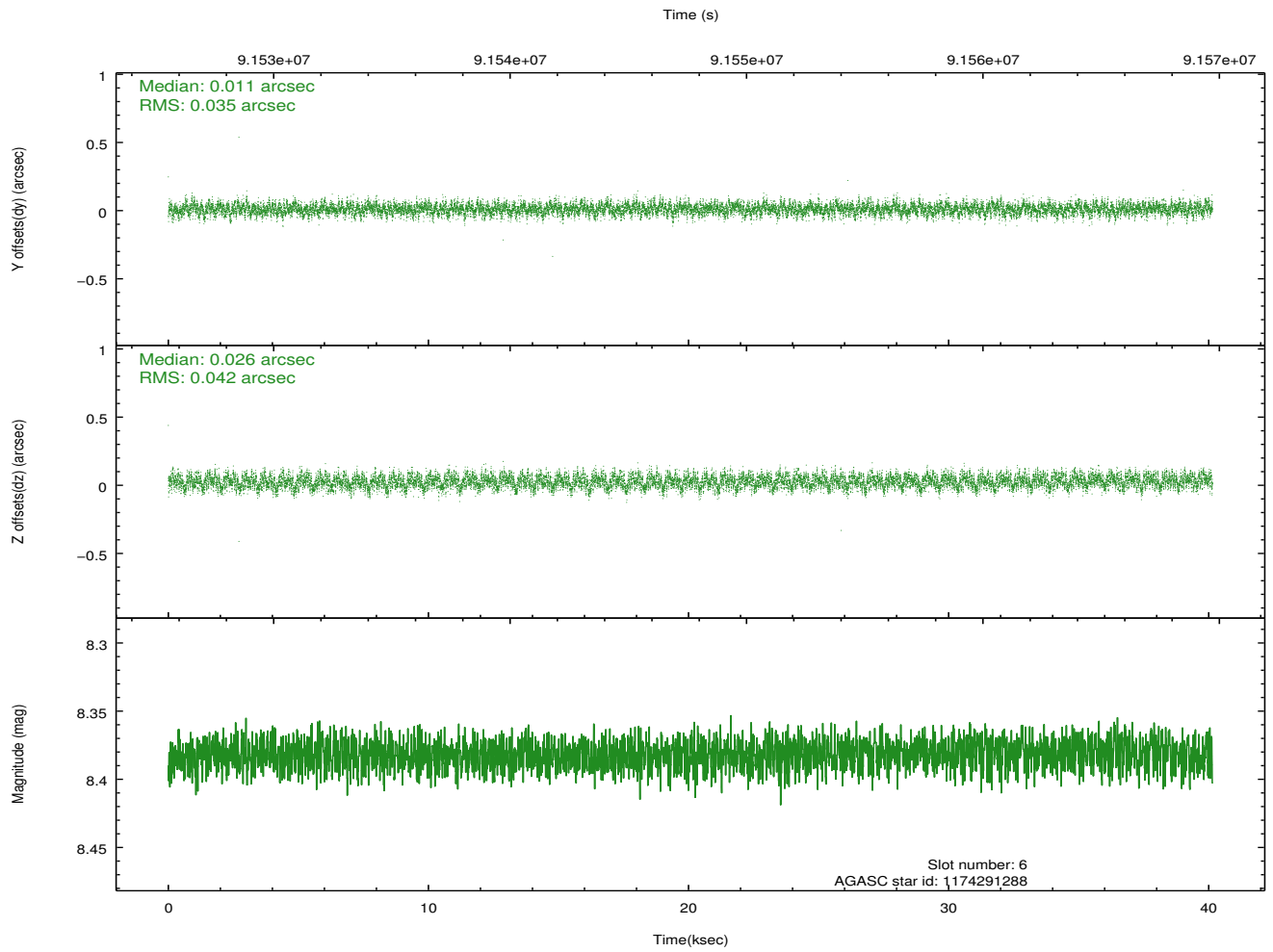
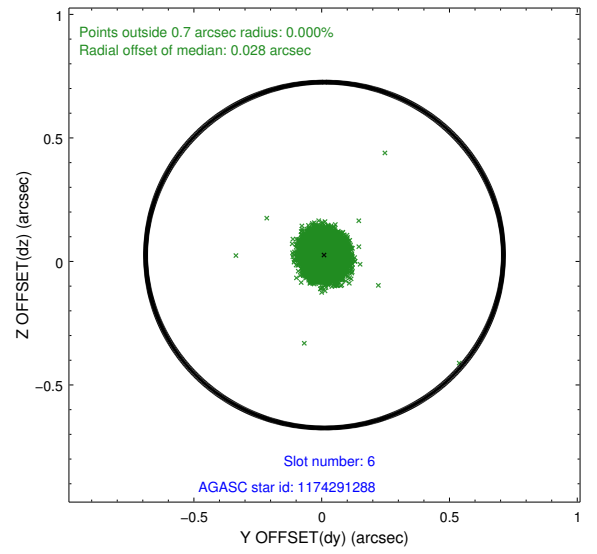
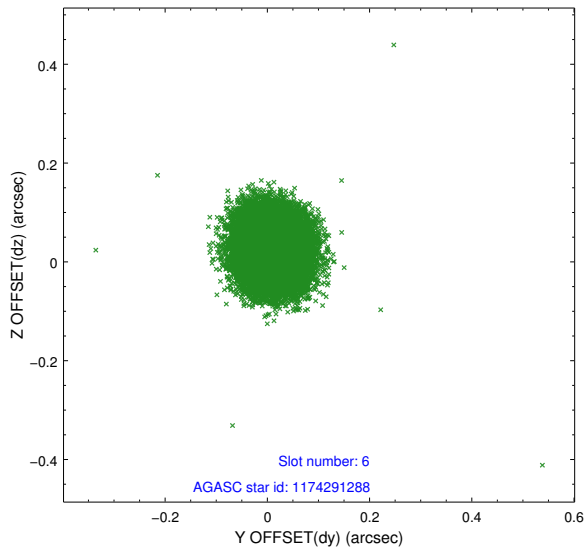
2.4.2 Slot 4



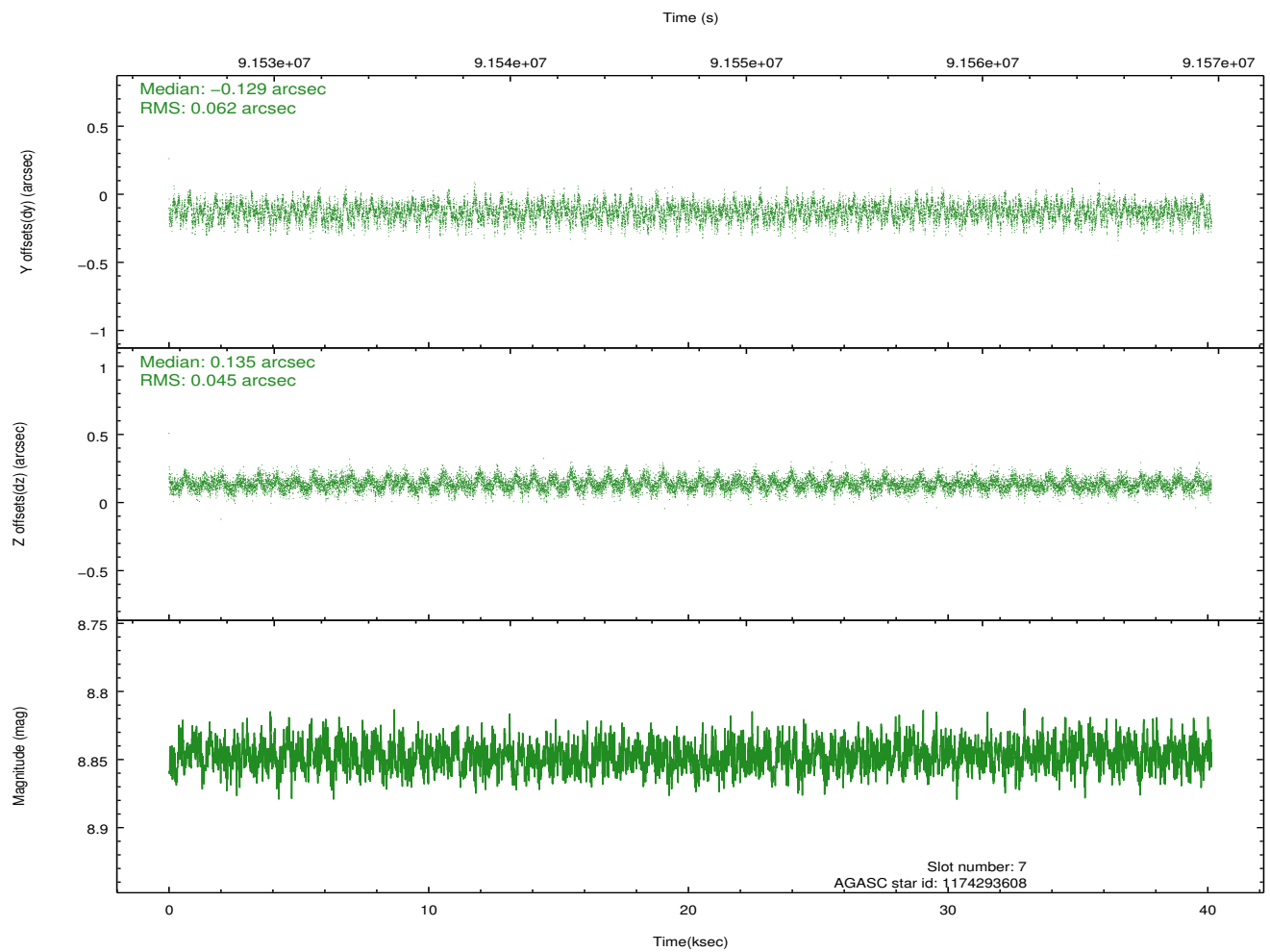
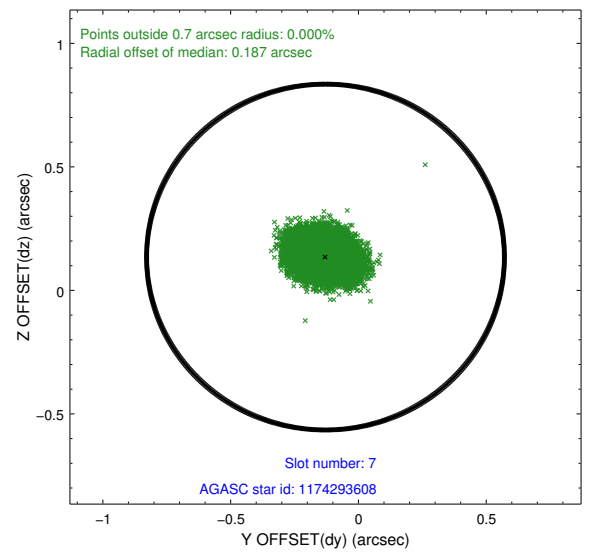
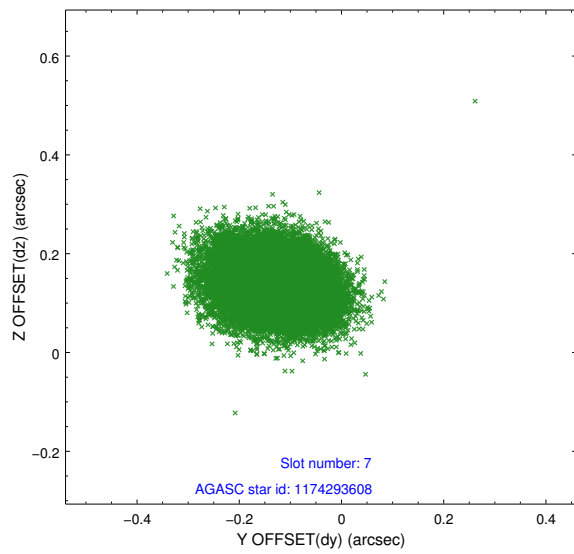
2.4.3 Slot 5



2.4.4 Slot 6

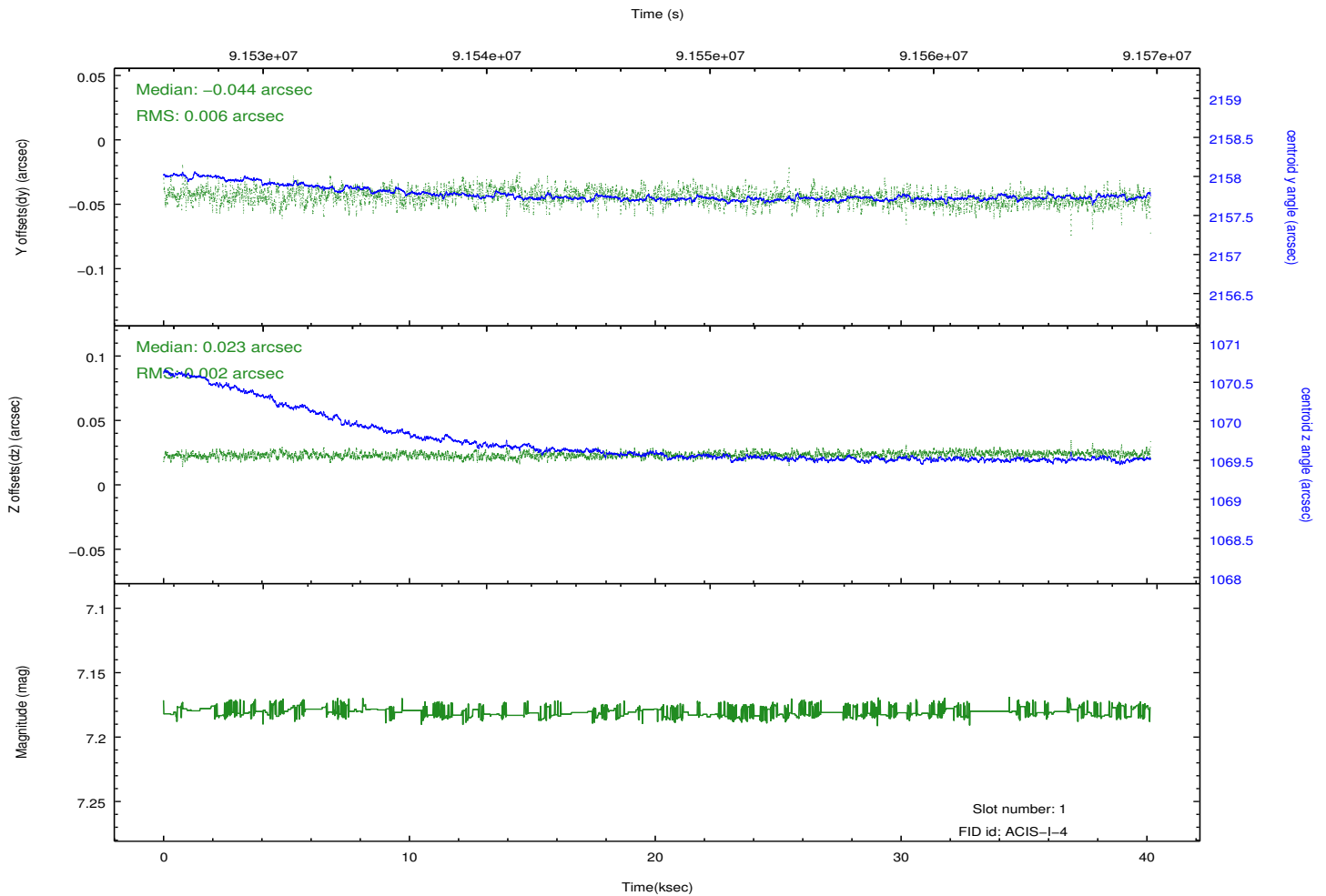
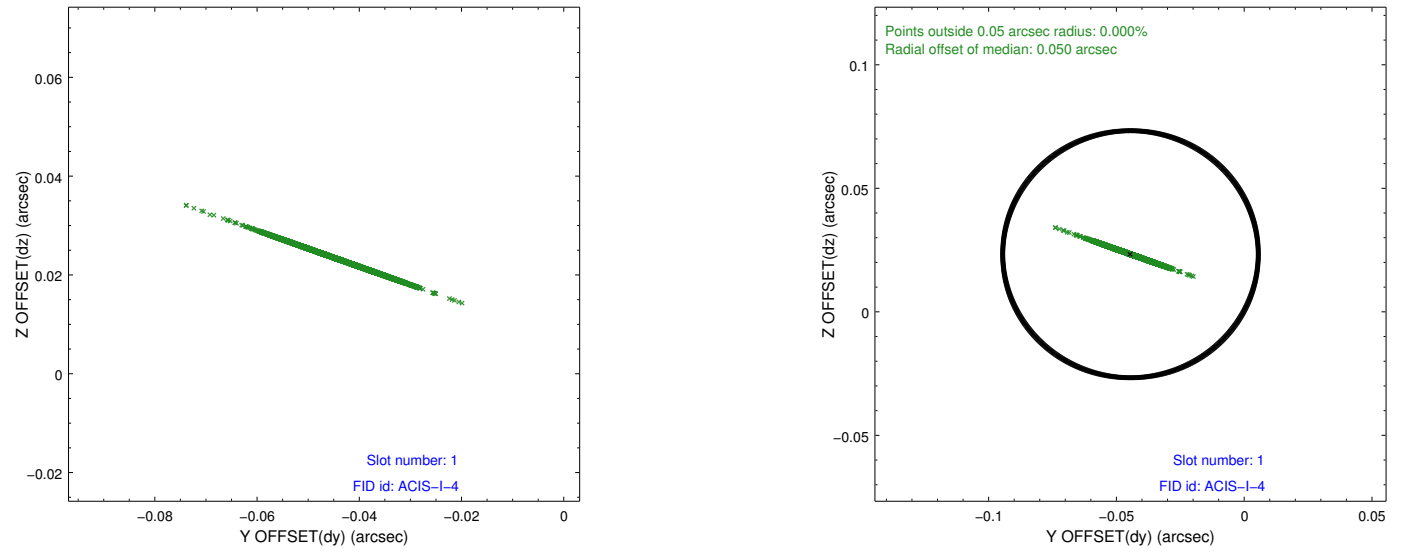


2.4.5 Slot 7

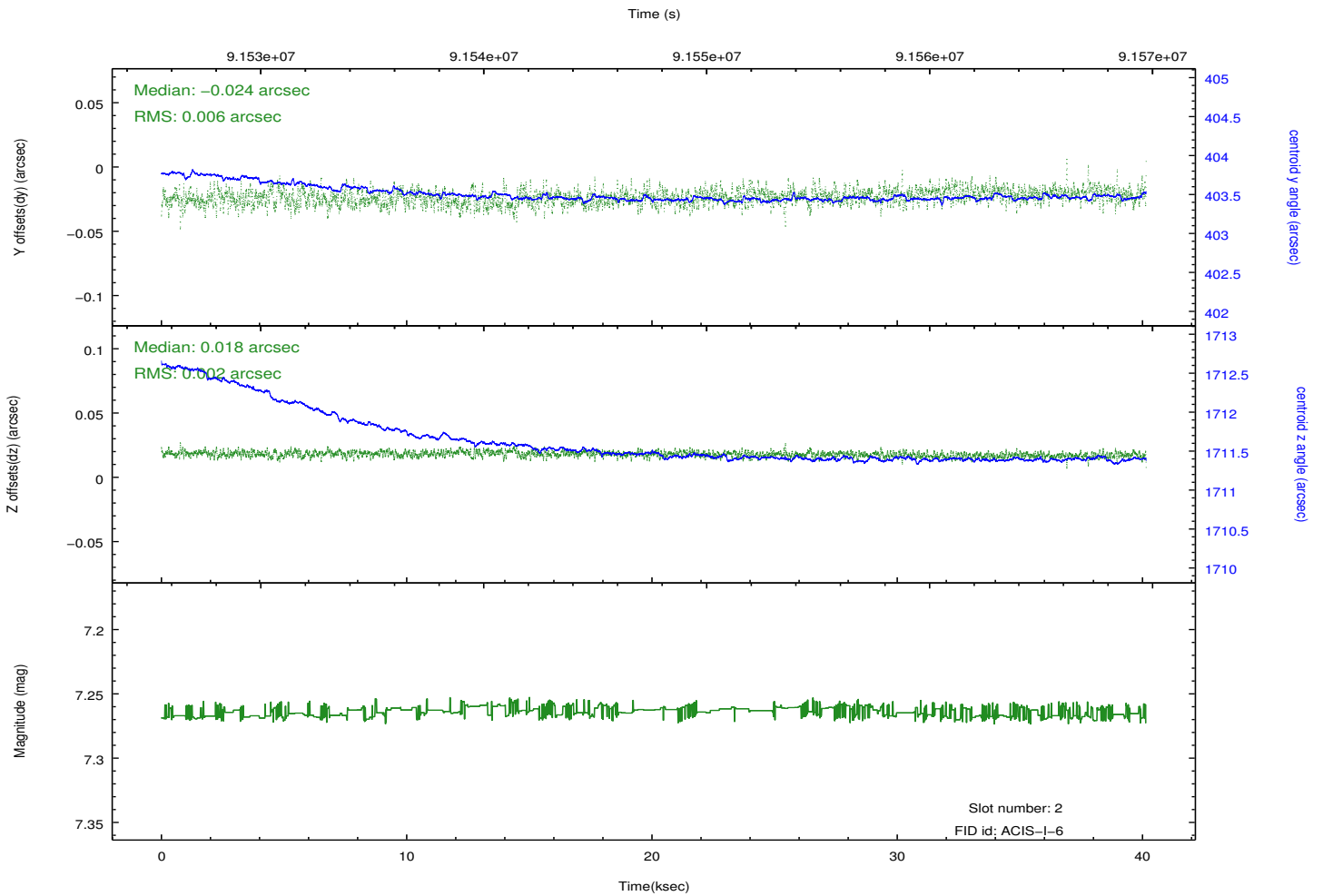
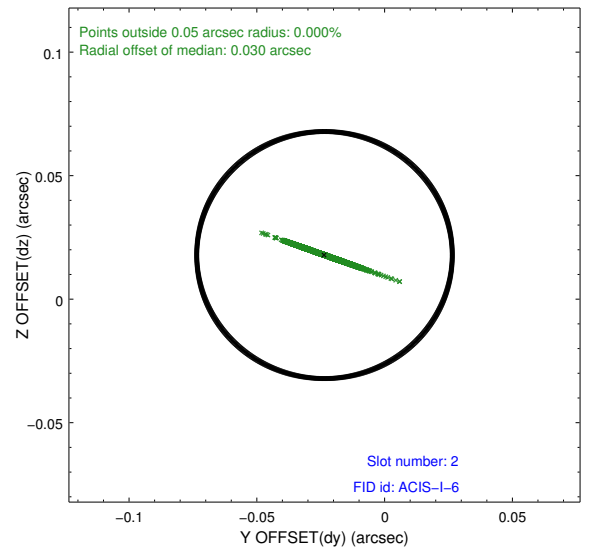
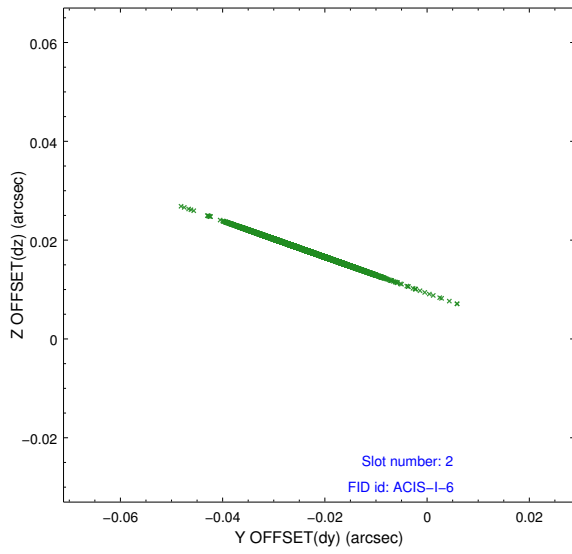


2.5 FID Slots

2.5.1 Slot 1



2.5.2 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.144

A.2 Comments

The fid light in slot 0 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.

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Window constraint met.