

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16334 - L2 Version 2
Chandra X-Ray Center

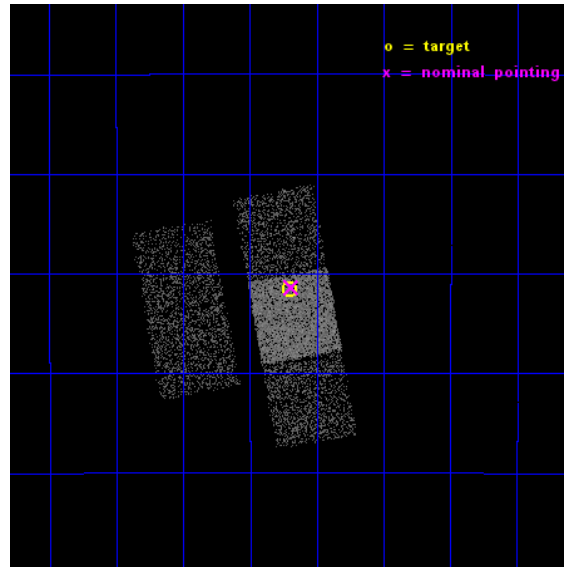
L2 Processing Date : Dec 9 2014

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1 Front

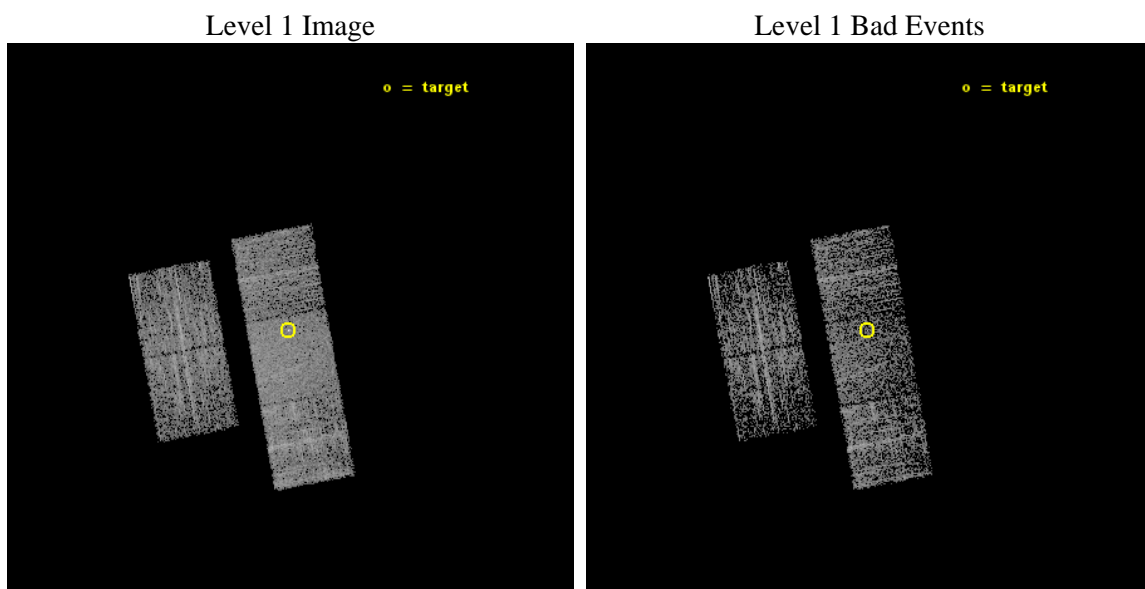
seq_num	200960	Sequence number
obs_id	16334	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16104202-2101319	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.675	Observer's specified target RA [deg]
dec_targ	-21.025528	Observer's specified target Dec [deg]
ra_nom	242.67253537411	Nominal RA [deg]
dec_nom	-21.023347939761	Nominal Dec [deg]
roll_nom	79.575521801819	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3070.9232587814	Sum of GTIs [s]
livetime	3030.7993856246	Livetime [s]
ontime2	3070.7590987682	Sum of GTIs [s]
ontime3	3070.8411787748	Sum of GTIs [s]
ontime6	3070.8822187781	Sum of GTIs [s]
ontime7	3070.9232587814	Sum of GTIs [s]
ontime8	3070.8001387715	Sum of GTIs [s]
l2events	15242	Number of level 2 events



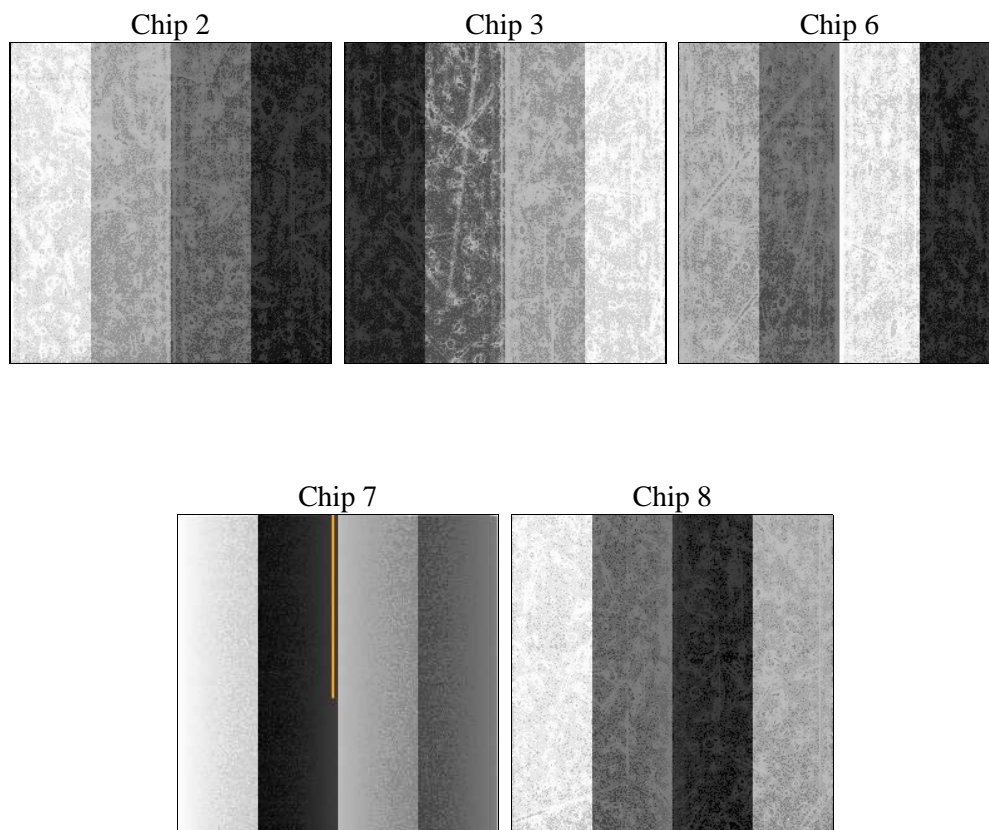
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3070.9232587814	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3070.7590987682	Sum of GTIs [s]
date	2014-12-10T01:11:04	Date and time of file creation	ontime3	3070.8411787748	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3070.8822187781	Sum of GTIs [s]
			ontime7	3070.9232587814	Sum of GTIs [s]
			ontime8	3070.8001387715	Sum of GTIs [s]
			l1events	84240	Number of level 1 events

2.1.4 Events

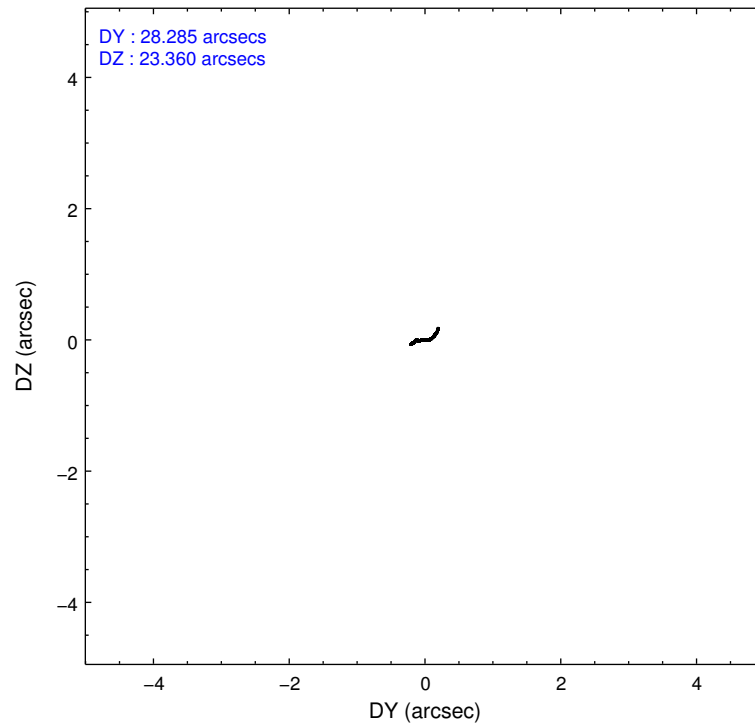
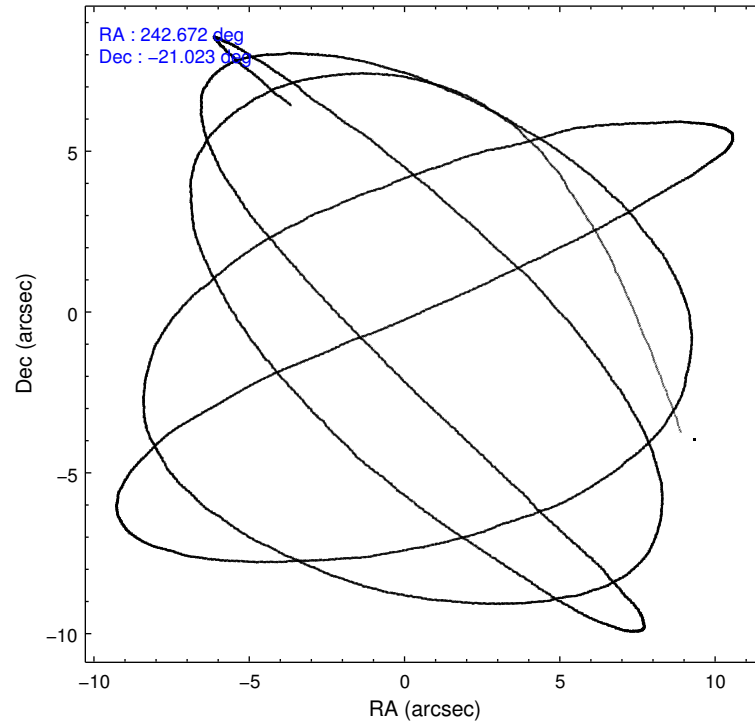
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	15146	13590	14804	21130	19570
rejected events	13510	11933	13017	11872	14588
rejected %	89%	87%	87%	56%	74%

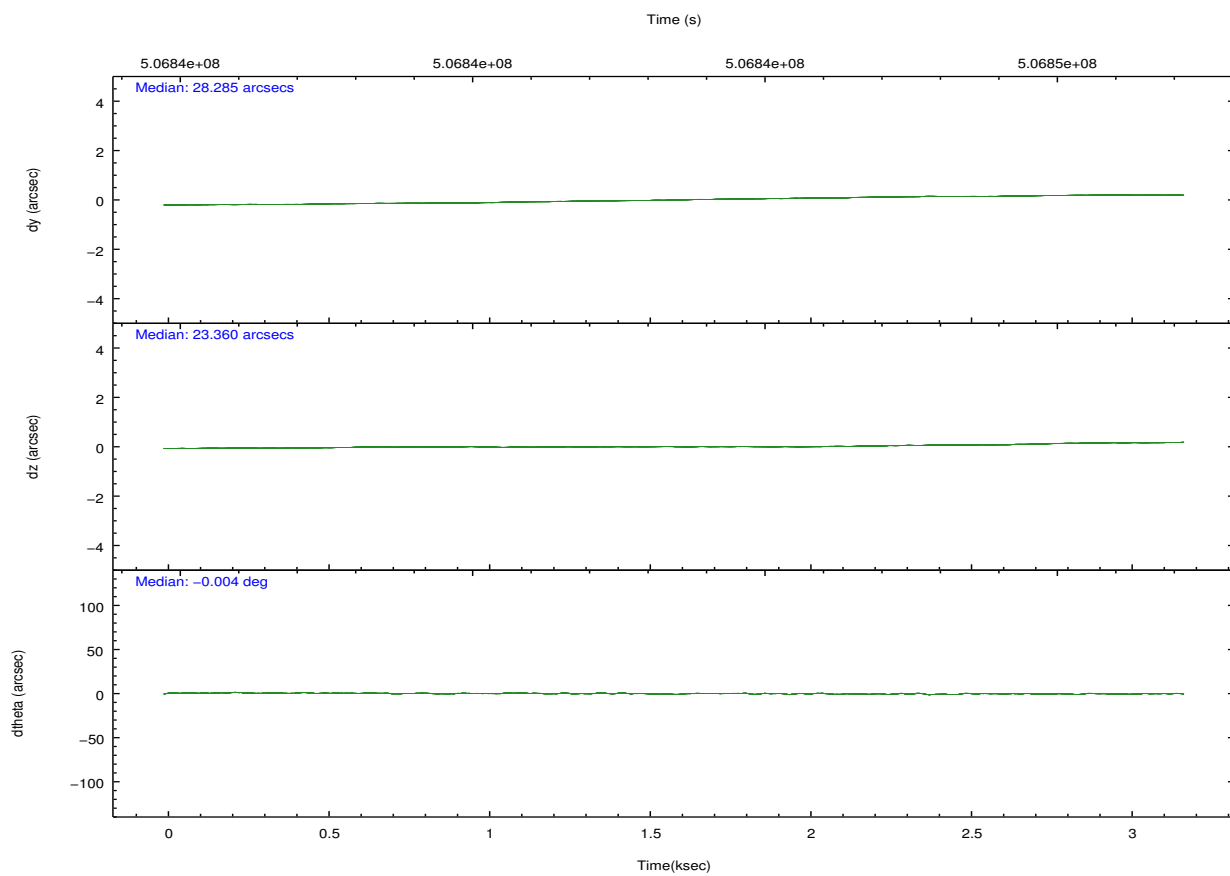
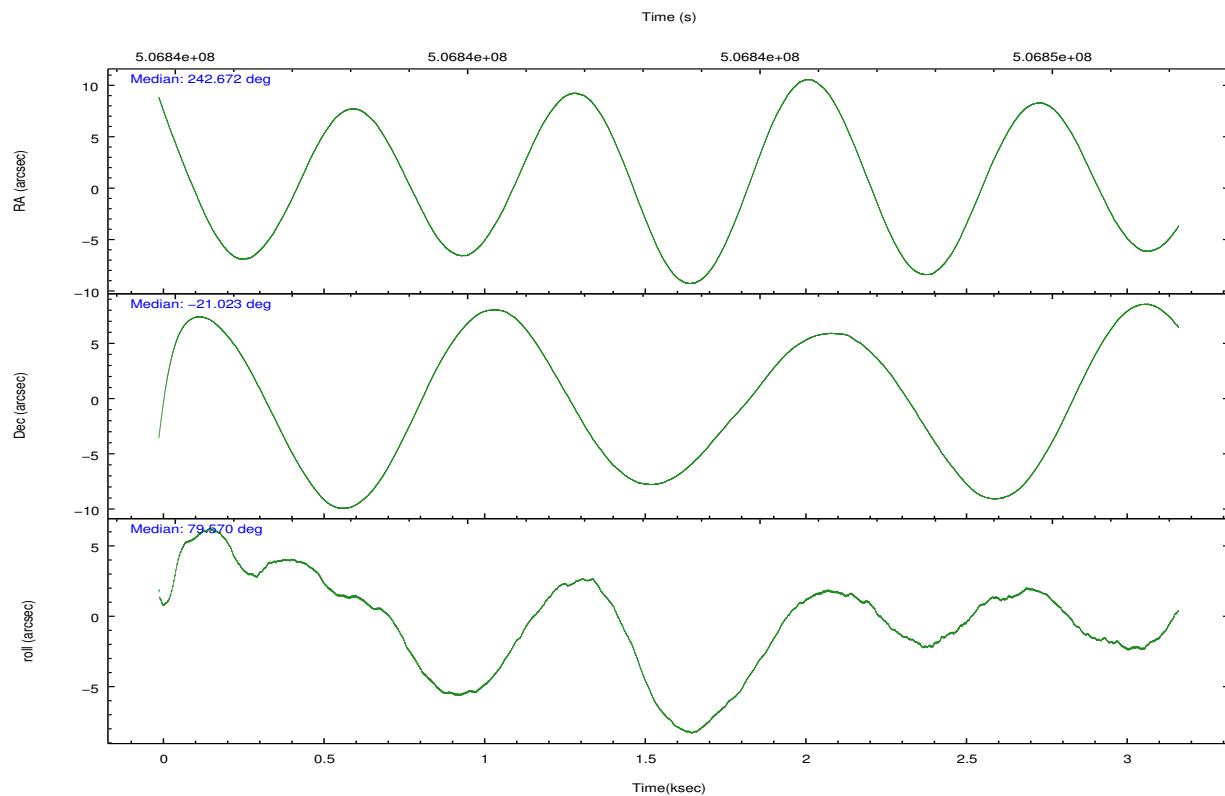
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	584	571	616	901	1465
	3%	4%	4%	4%	7%
grade 1 events	11	6	6	33	13
	0%	0%	0%	0%	0%
grade 2 events	408	362	374	1926	1210
	2%	2%	2%	9%	6%
grade 3 events	155	170	193	775	503
	1%	1%	1%	3%	2%
grade 4 events	165	171	197	789	496
	1%	1%	1%	3%	2%
grade 5 events	665	767	809	2222	1127
	4%	5%	5%	10%	5%
grade 6 events	325	383	408	4880	1310
	2%	2%	2%	23%	6%
grade 7 events	12833	11160	12201	9604	13446
	84%	82%	82%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	242.682822	242.6725353741085	Subarray requested	NONE	NONE
[deg] Pointing Dec	-21.049101	-21.0233479397608	Alternating exposures requested	N	N
[deg] Pointing Roll	79.422664	79.57552180181906	[s] Primary exposure time	0.000000	3.1
[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)	506843264.184000	506842317.76207			
Observation start date	2014-01-23T05:46:37	2014-01-23T05:31:57			
[s] Observation end time (MET)	506846264.184000	506847232.12484			
Observation end date	2014-01-23T06:36:37	2014-01-23T06:53:52			
Read mode	TIMED	TIMED			

2.3 Aspect



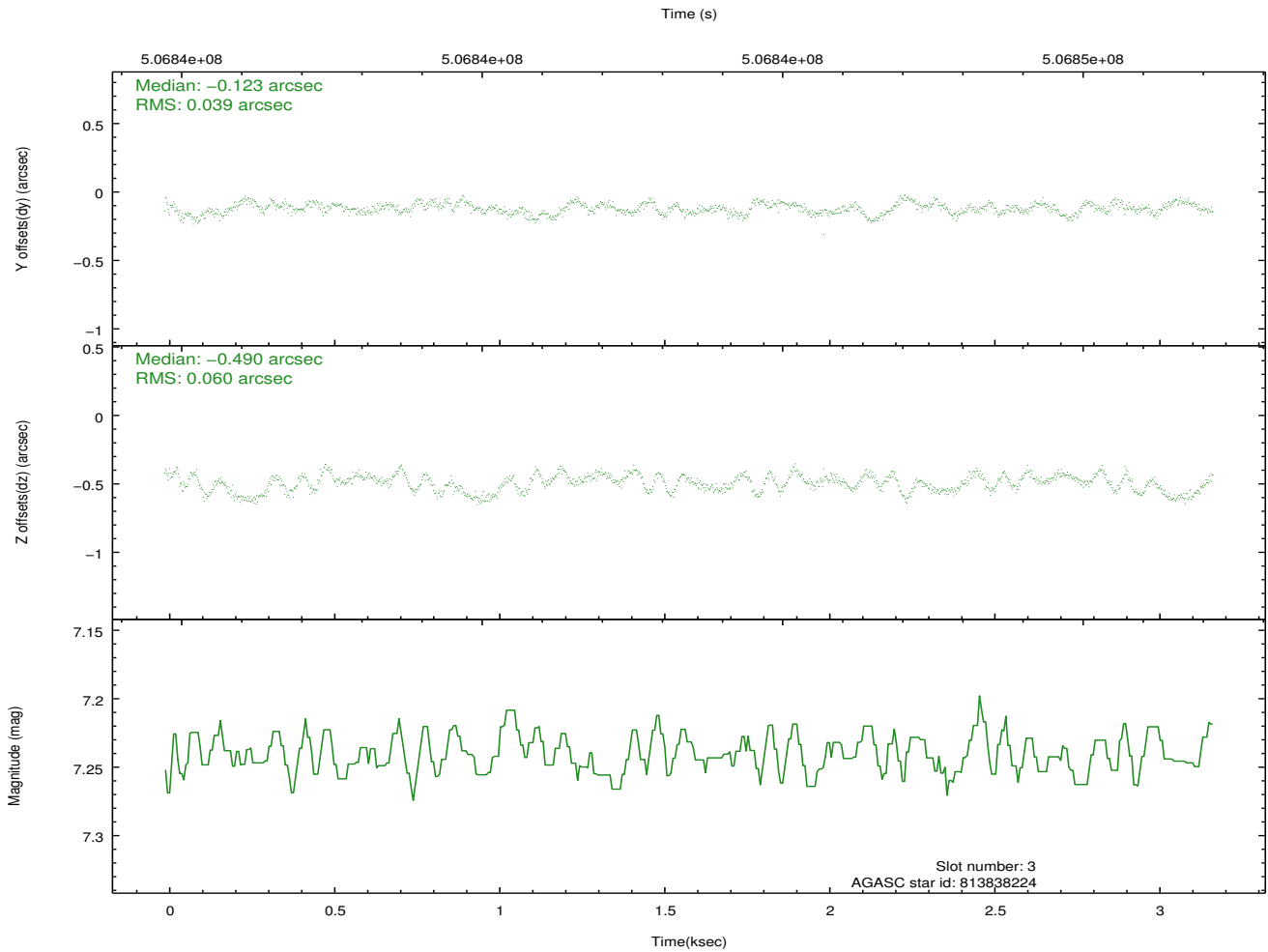
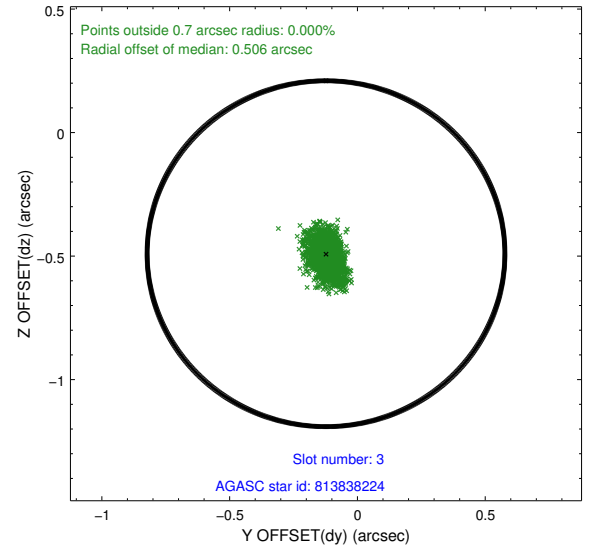
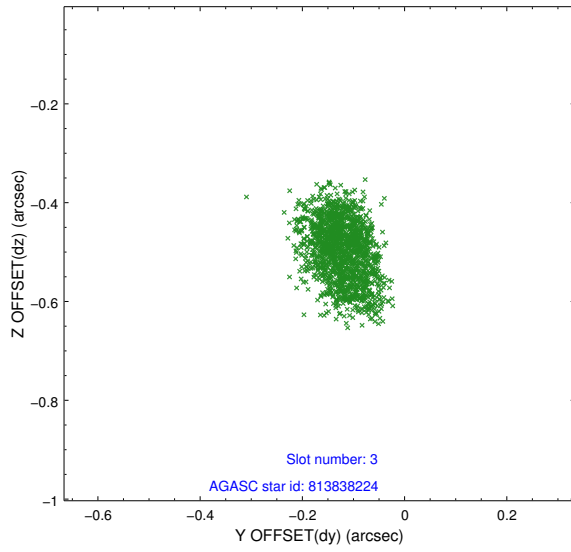


Slot Statistics

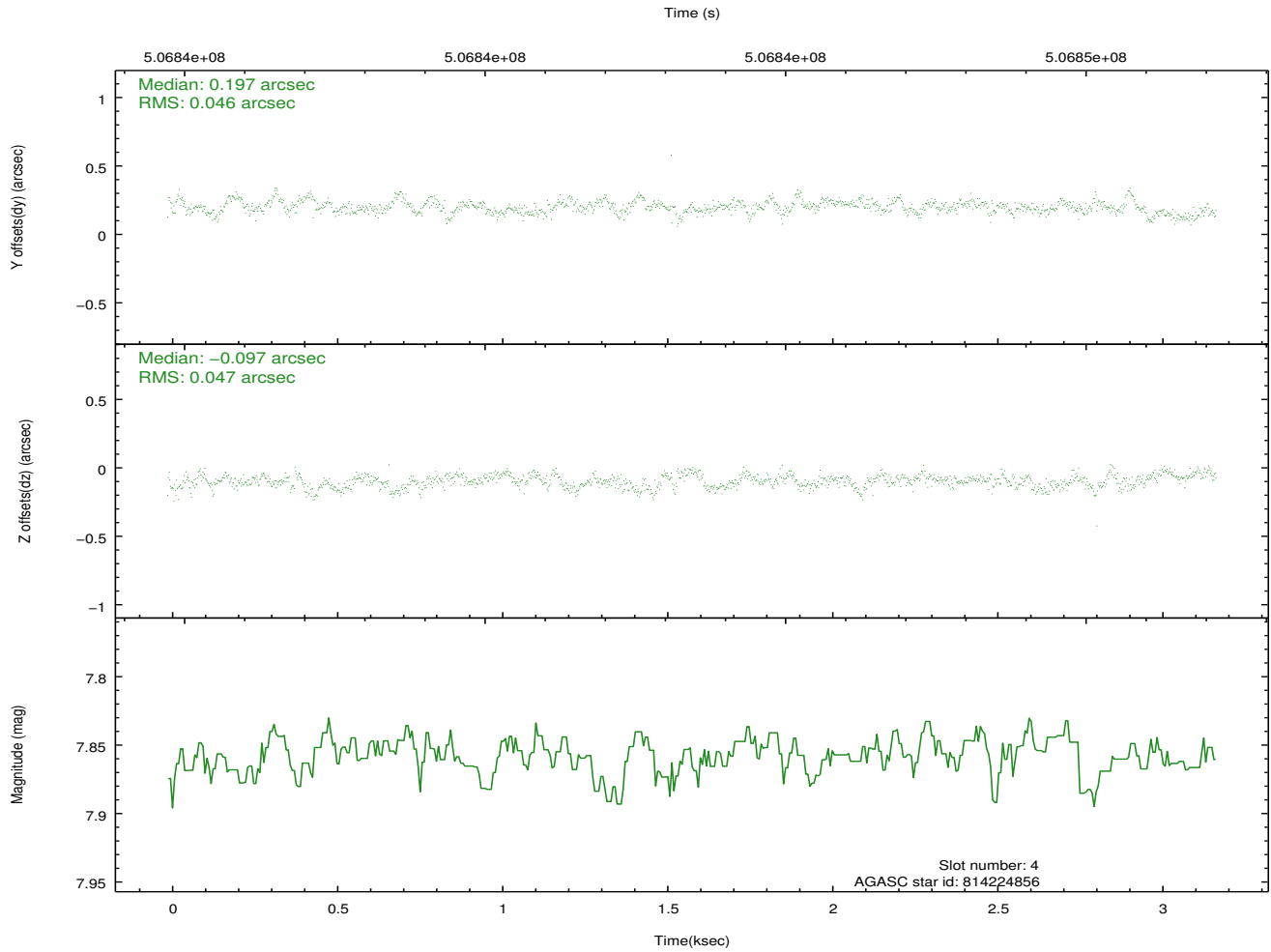
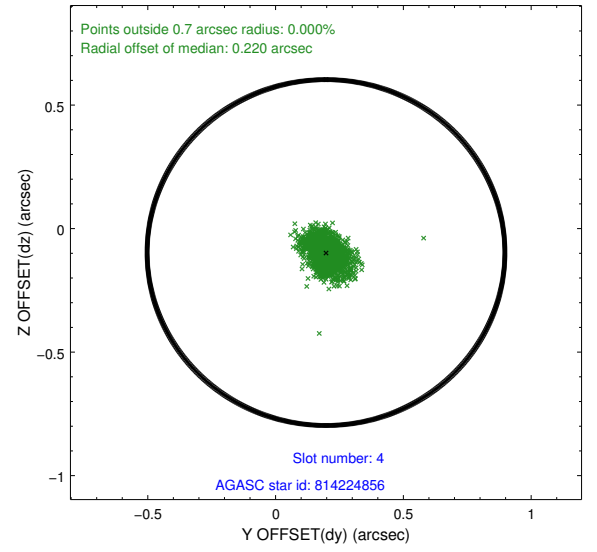
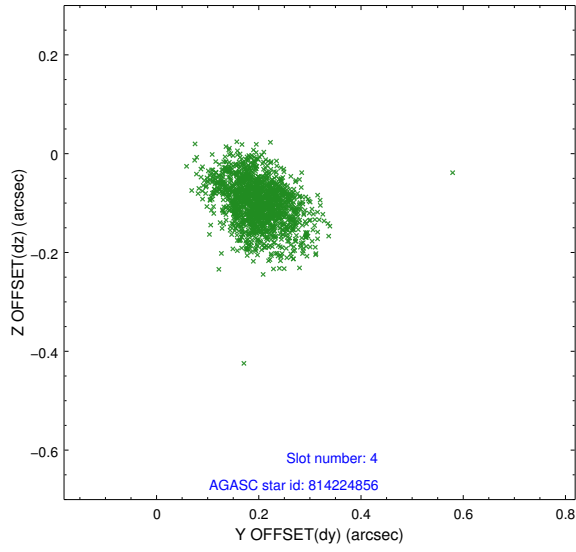
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	775	-0.185	-0.058	0.008	0.014	0.000000	0.000000	-781.81	-1745.04
1	FID		ACIS-S-4	7.01	775	0.401	0.105	0.010	0.016	0.000000	0.000000	2131.13	161.50
2	FID		ACIS-S-5	7.04	775	-0.248	-0.037	0.007	0.012	0.000000	0.000000	-1832.15	157.33
3	GUIDE	used	813838224	7.24	1550	-0.123	-0.490	0.076	0.124	242.395650	-20.615740	1354.20	1236.88
4	GUIDE	used	814224856	7.86	1550	0.197	-0.097	0.068	0.116	241.935972	-21.412112	-1749.56	2220.06
5	GUIDE	used	814360904	9.01	1549	0.434	0.817	0.131	0.223	243.182992	-21.195058	-211.74	-1745.37
6	GUIDE	used	814365672	8.43	1549	-0.199	-0.163	0.097	0.164	242.146421	-20.758234	693.78	1965.12
7	GUIDE	used	813826304	8.20	1549	-0.307	-0.065	0.072	0.119	242.739718	-20.398996	2335.51	242.14

2.4 Star Slots

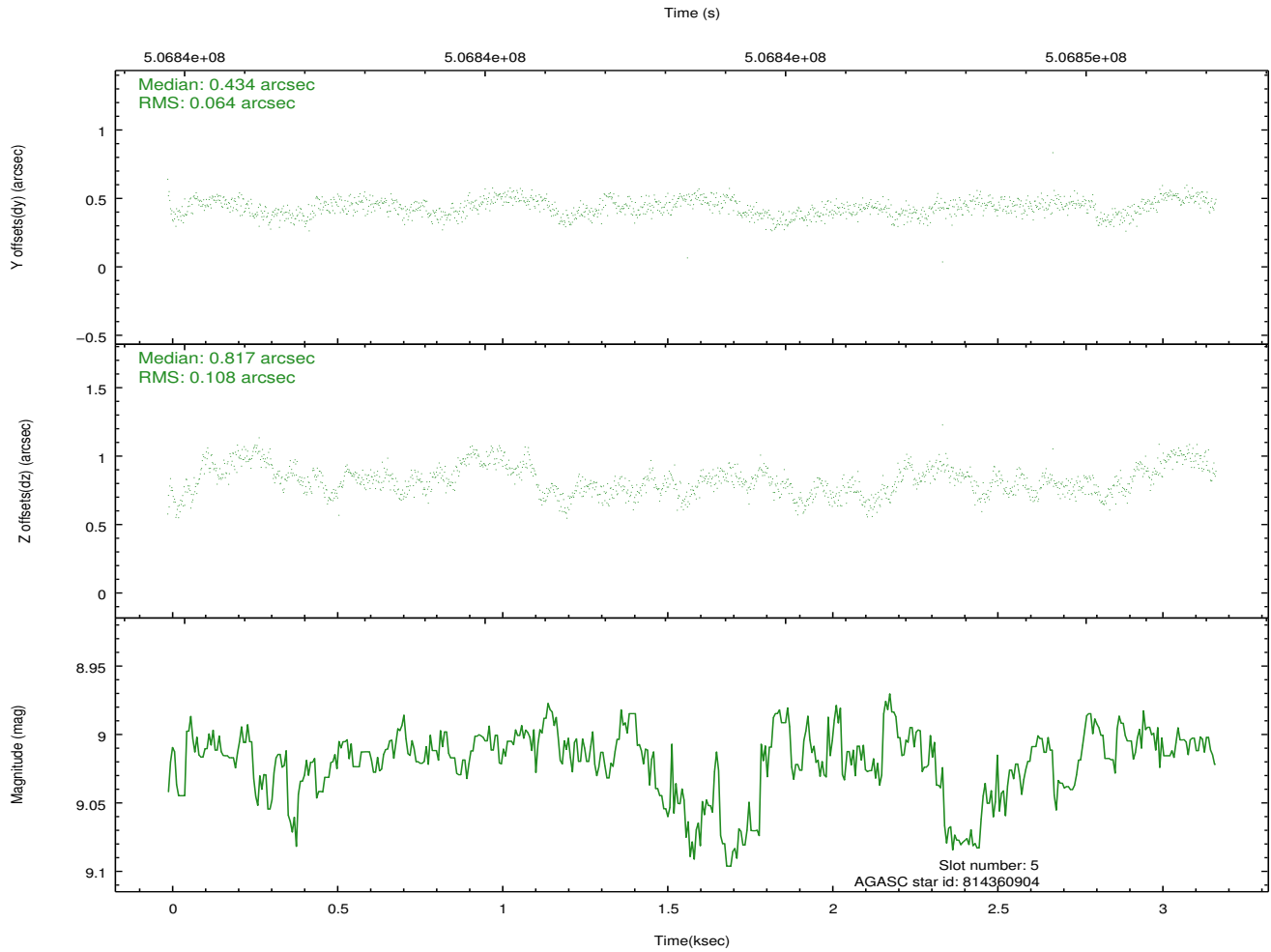
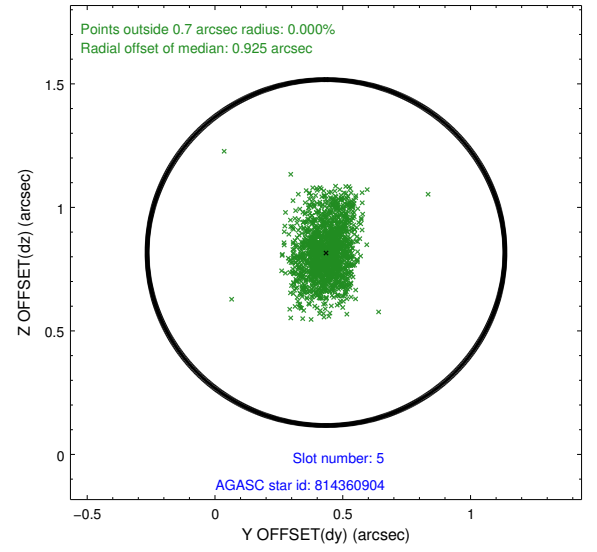
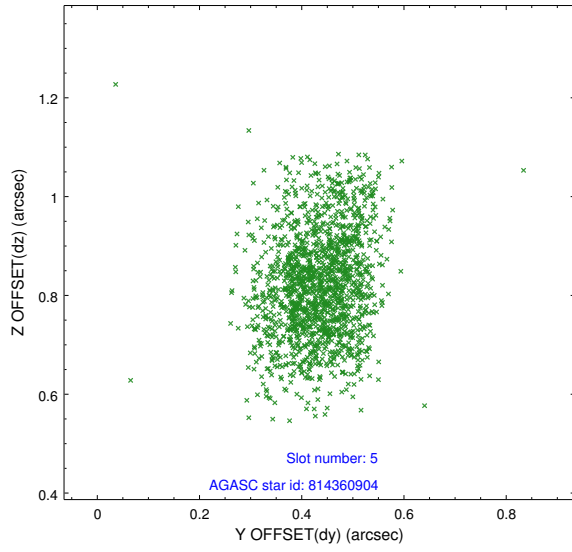
2.4.1 Slot 3



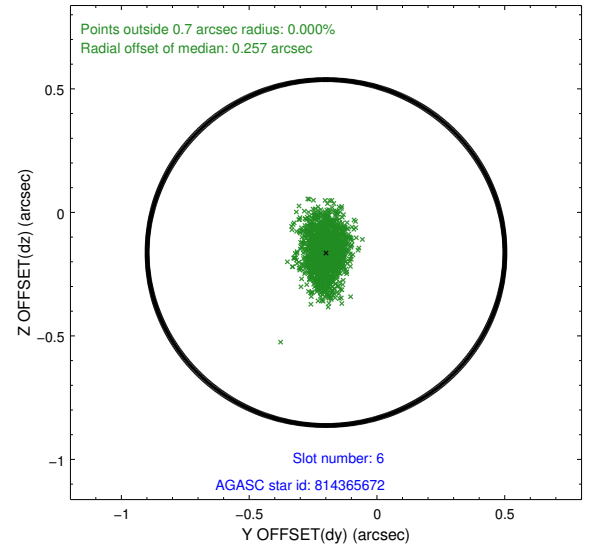
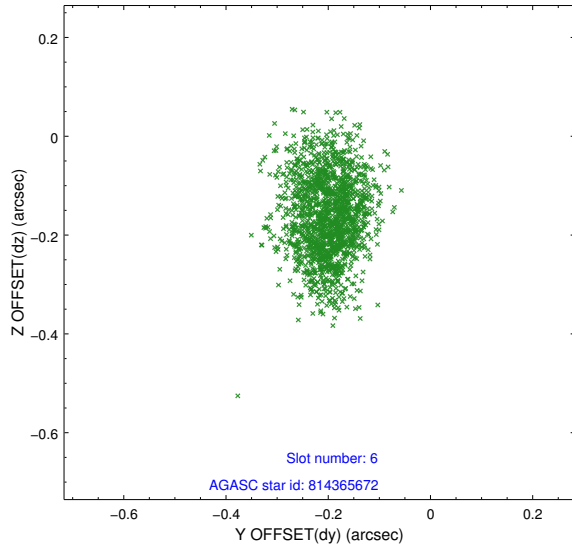
2.4.2 Slot 4



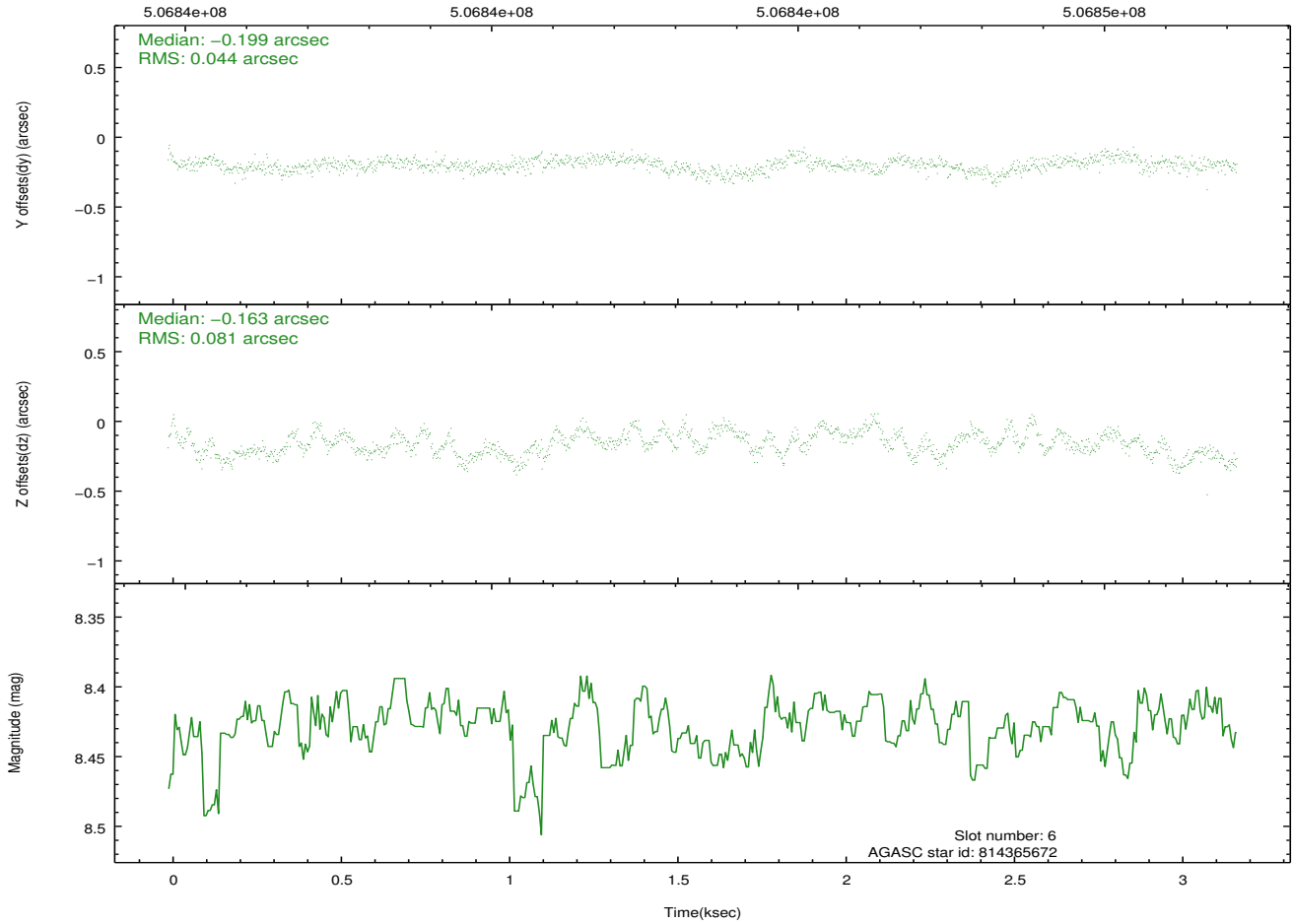
2.4.3 Slot 5



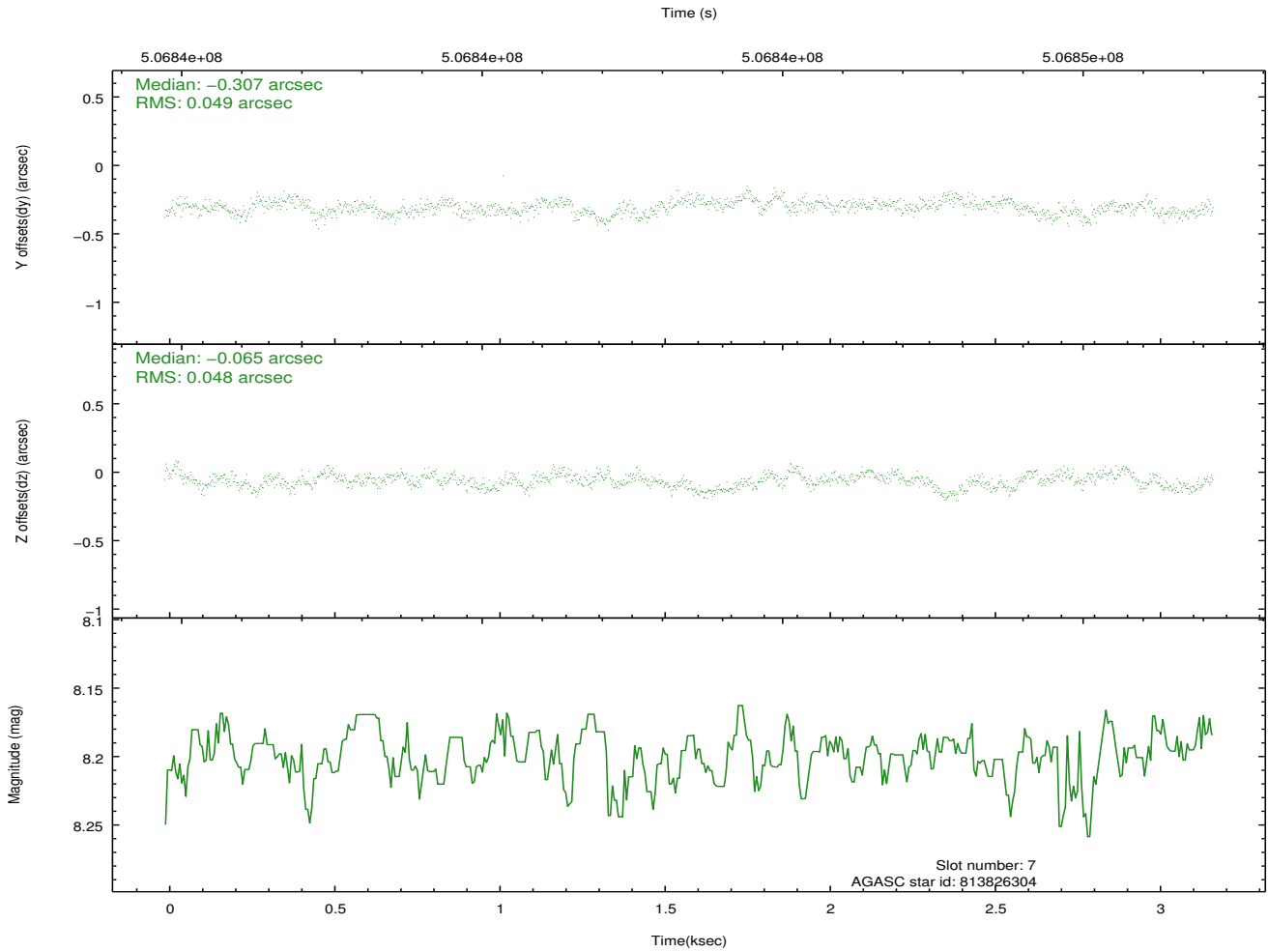
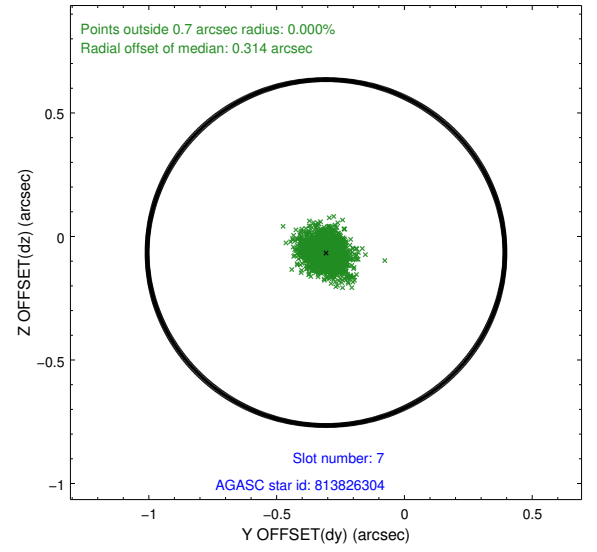
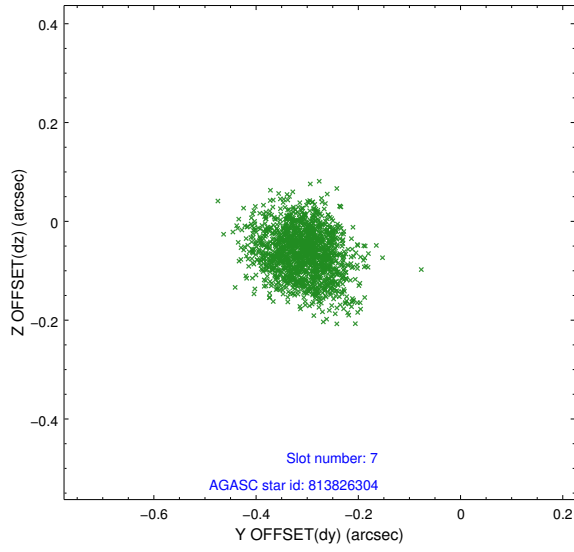
2.4.4 Slot 6



Time (s)

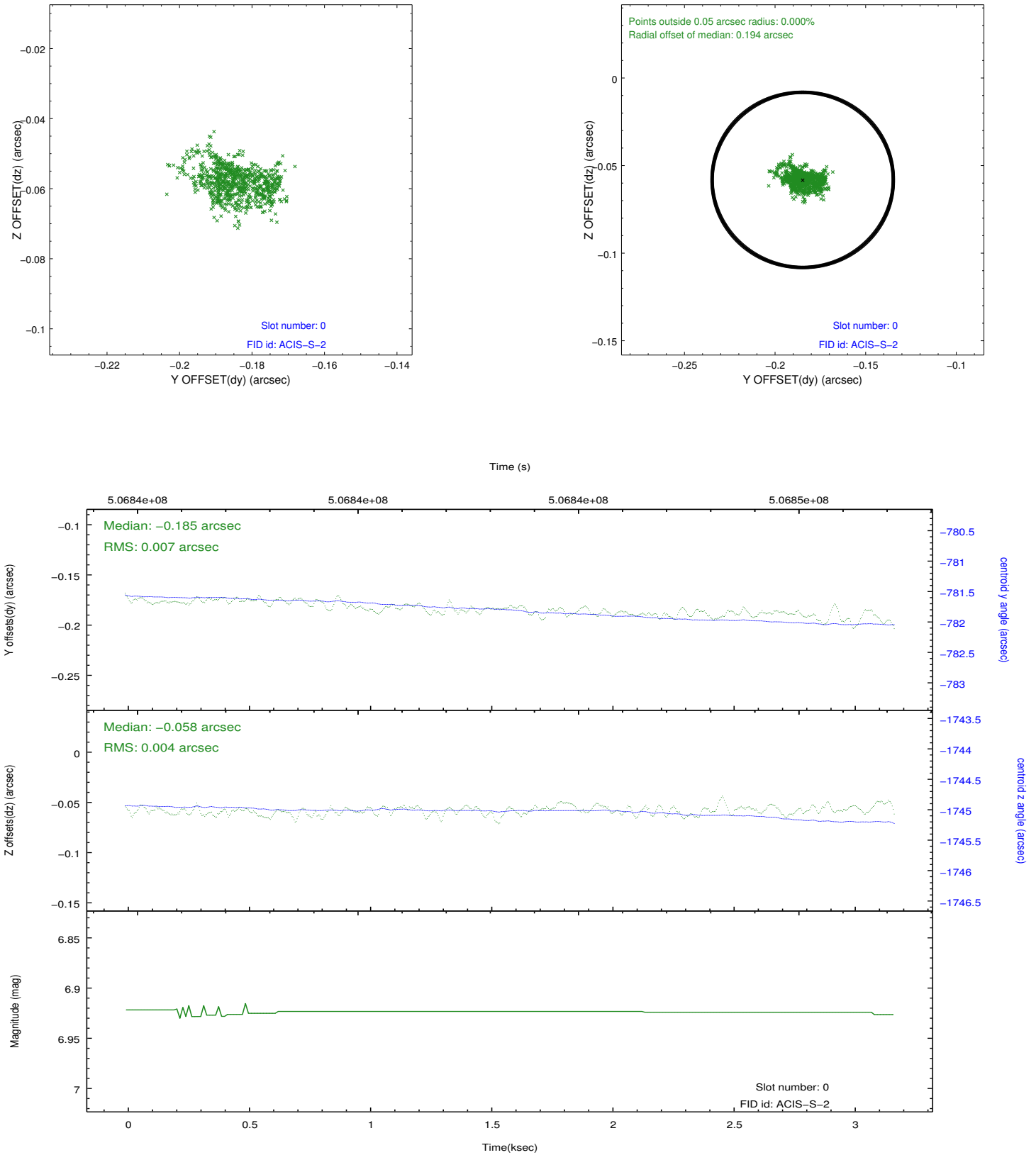


2.4.5 Slot 7

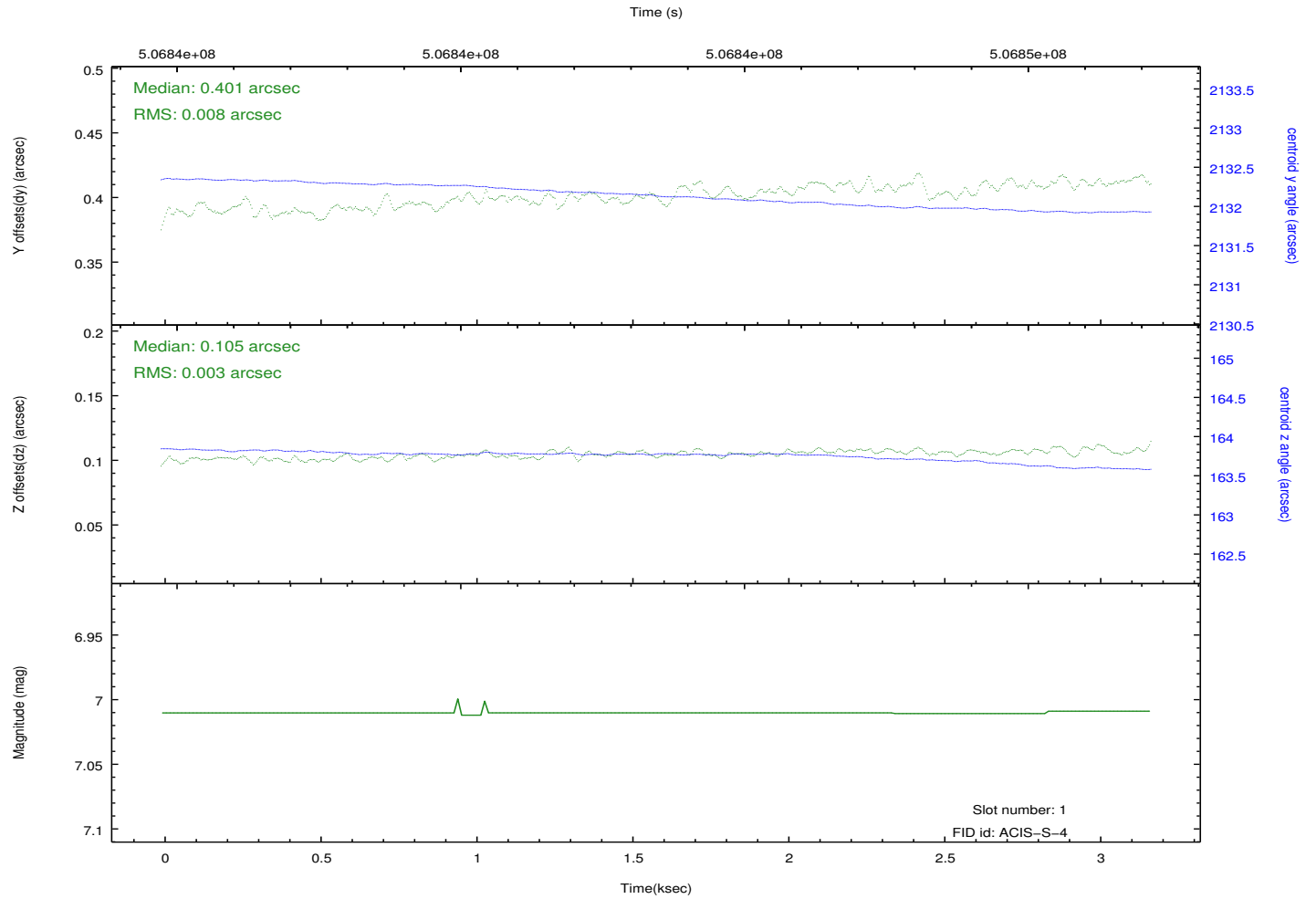
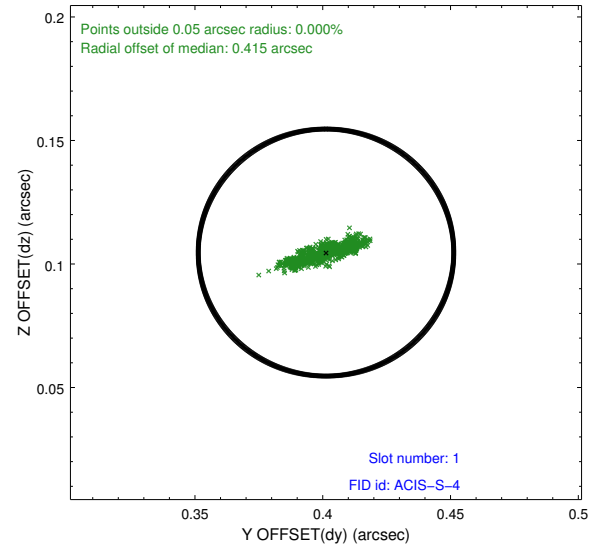
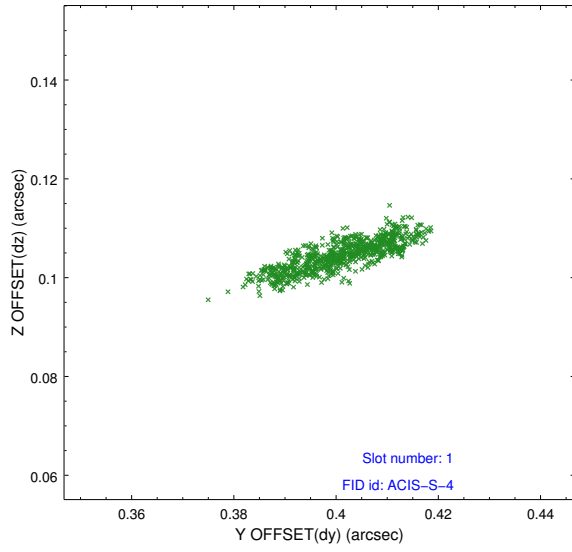


2.5 FID Slots

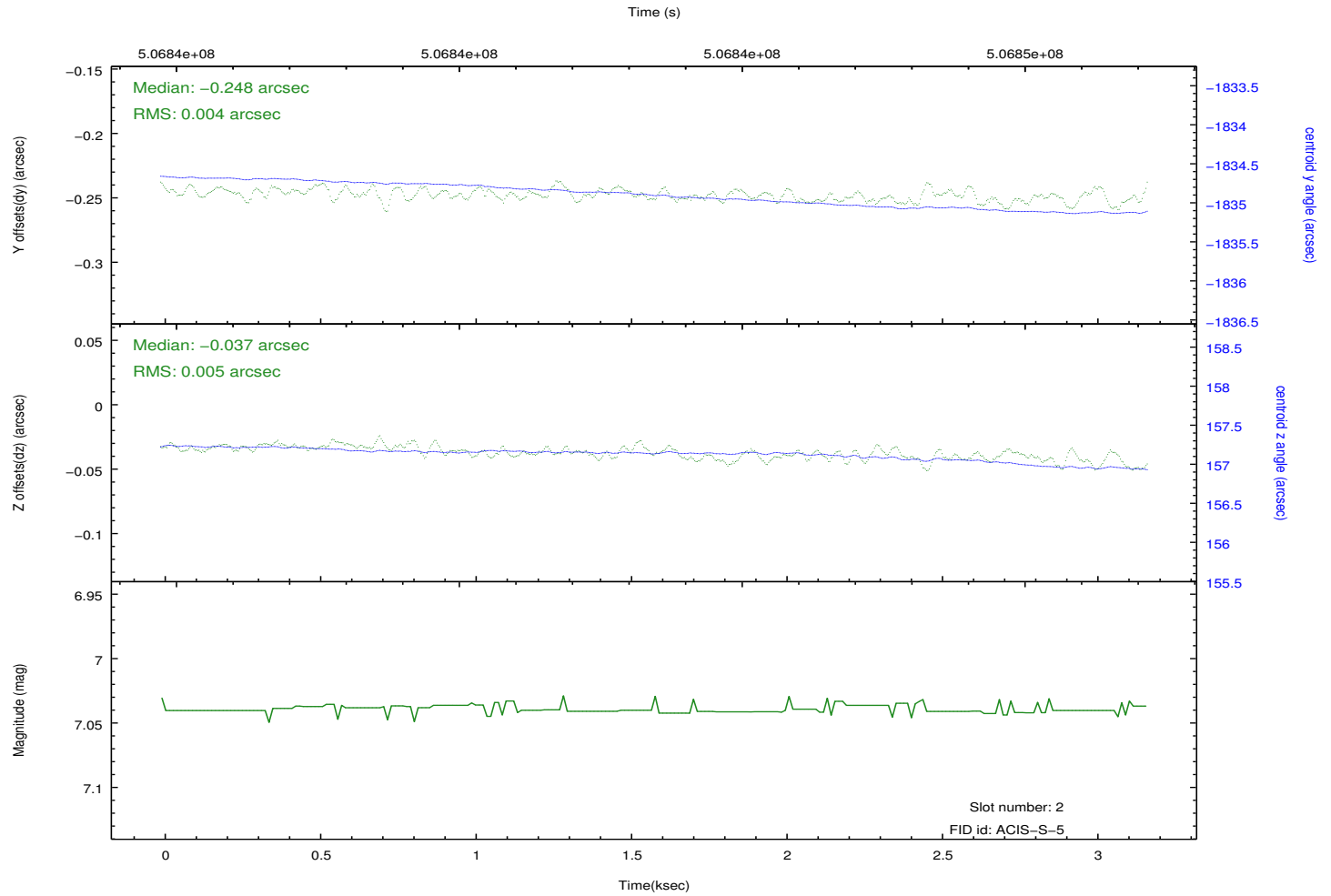
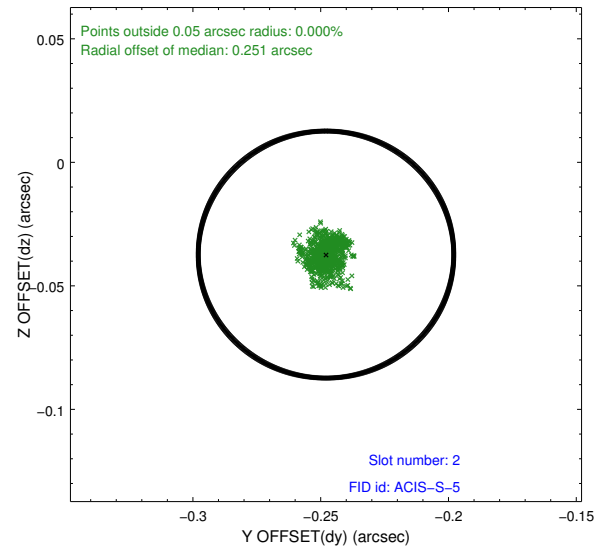
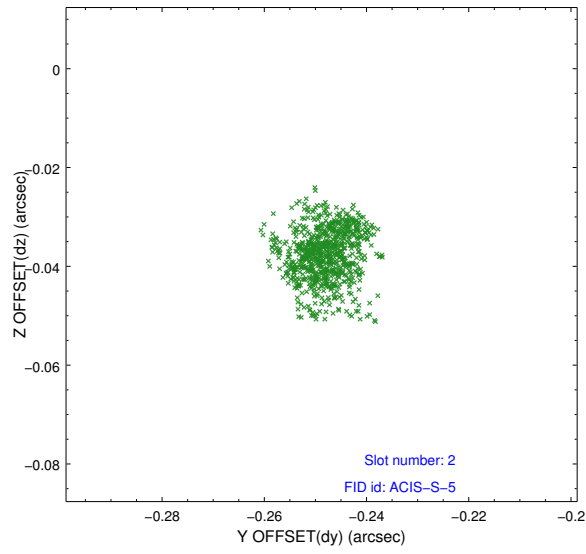
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0709232587814

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.