

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2001 - L2 Version 4
Chandra X-Ray Center

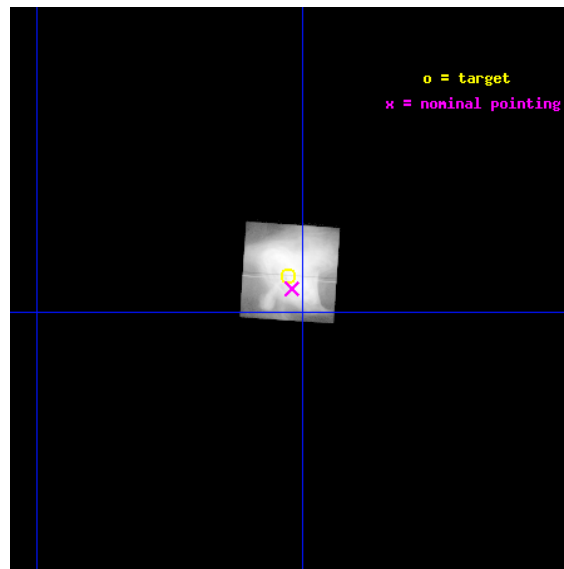
L2 Processing Date : Sep 12 2012

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1 Front

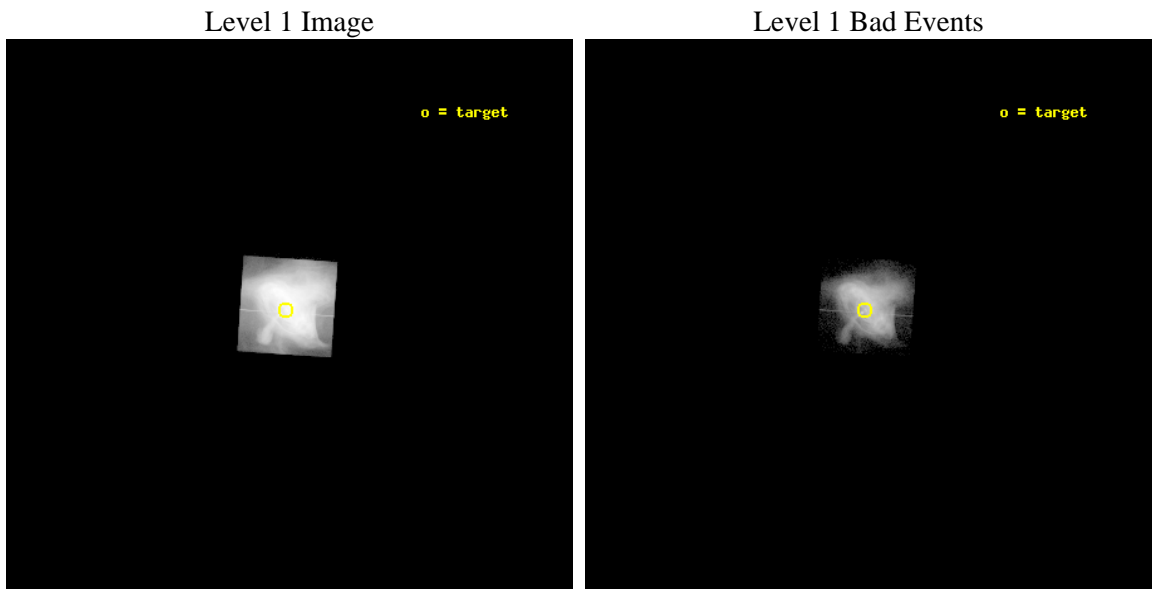
seq_num	500178	Sequence number
obs_id	2001	Observation id
title	COORDINATED CHANDRA/HST OBSERVATIONS OF THE CRAB NEBULA	Proposal t
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.630188660325	Nominal RA [deg]
dec_nom	22.010060184541	Nominal Dec [deg]
roll_nom	273.91166430857	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14601.242283955	Sum of GTIs [s]
livetime	2552.9325250823	Livetime [s]
ontime7	14601.242283955	Sum of GTIs [s]
l2events	8756177	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	24140.918000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	14601.242283955	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime7	14601.242283955	Sum of GTIs [s]
date	2012-09-07T09:39:12	Date and time of file creation	l1events	9917914	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

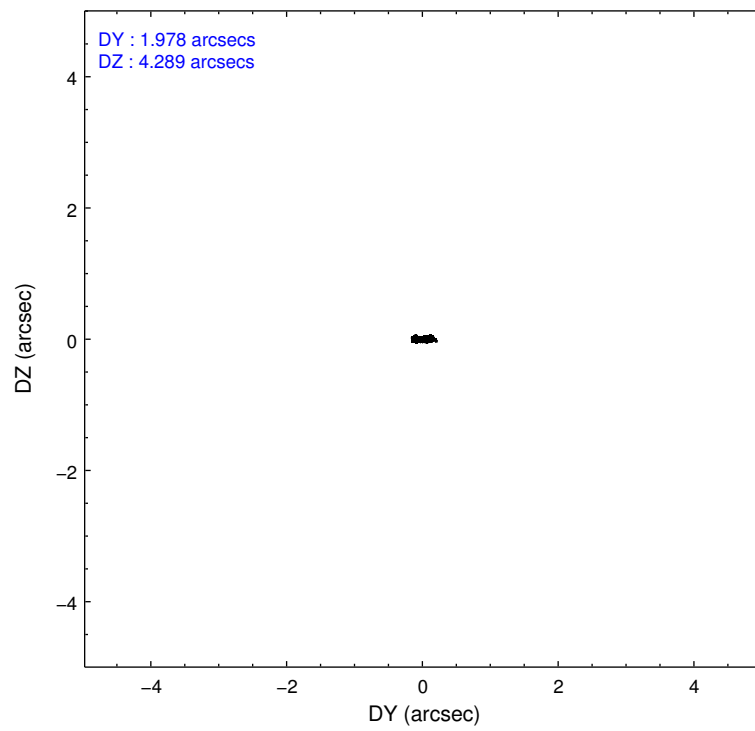
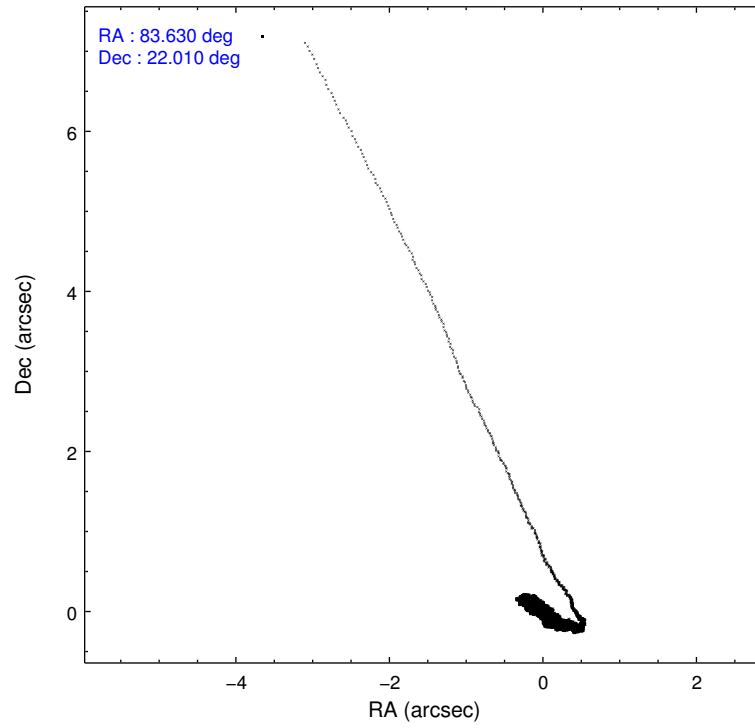
	ccd 7
level 1 events	9917914
rejected events	1073619
rejected %	10%

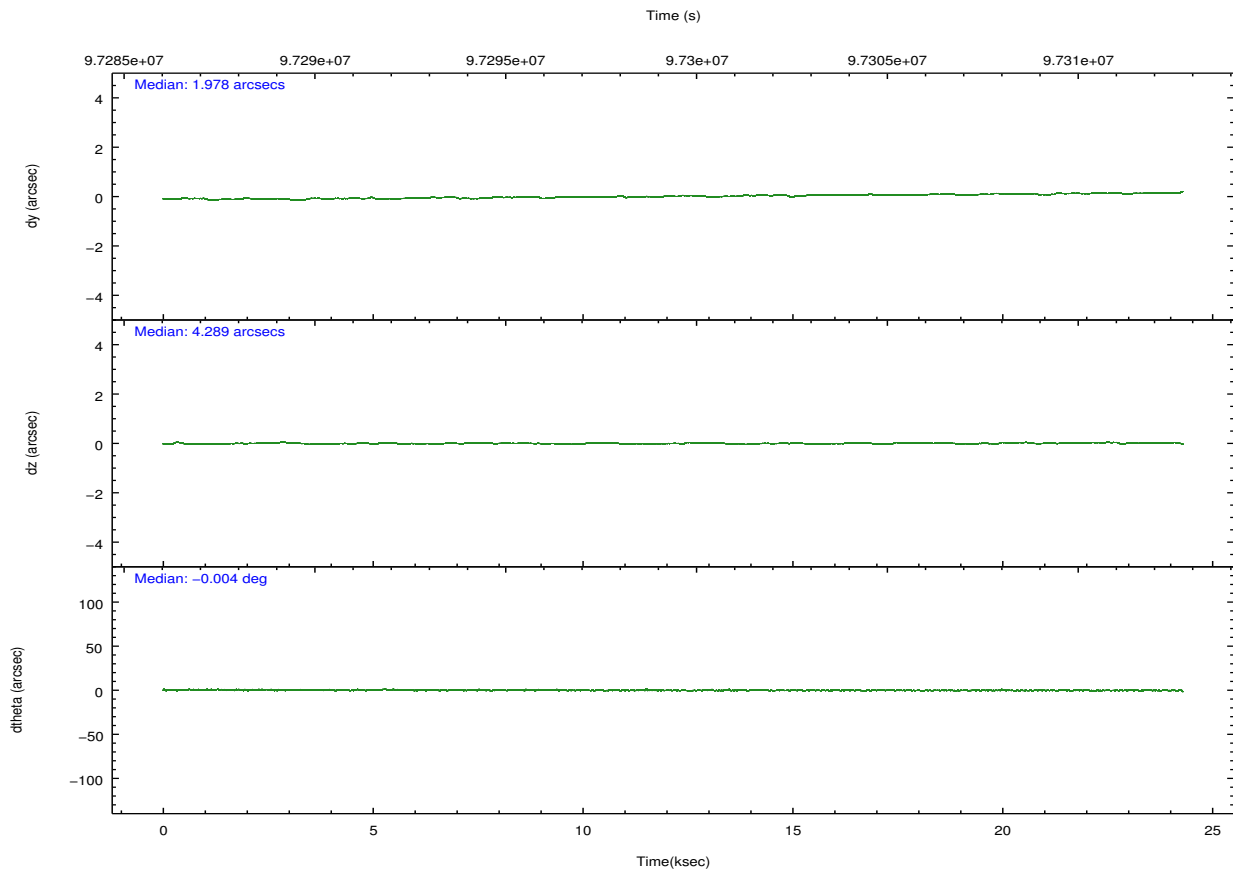
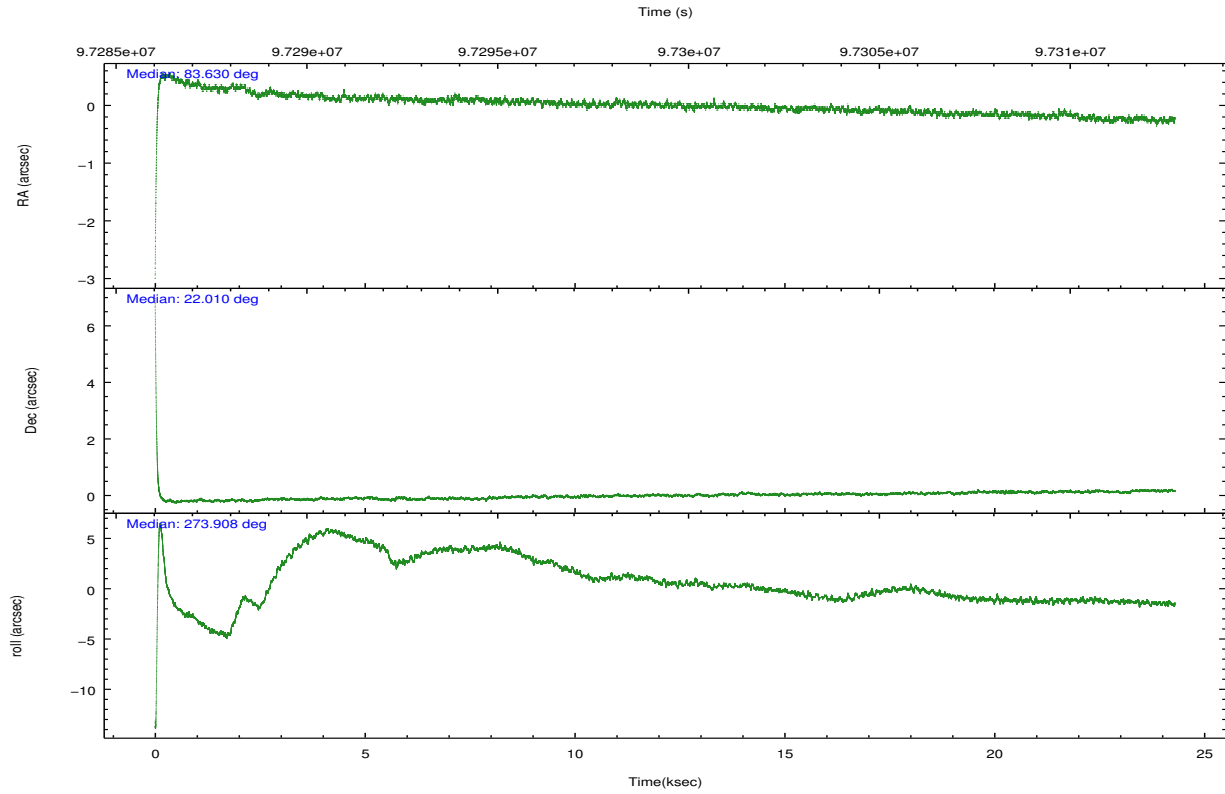
	ccd 7
grade 0 events	2080546
	20%
grade 1 events	136500
	1%
grade 2 events	2365860
	23%
grade 3 events	1050168
	10%
grade 4 events	1019757
	10%
grade 5 events	364979
	3%
grade 6 events	2413615
	24%
grade 7 events	486489
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.613535	83.63018866032519	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	22.032599	22.01006018454139	Subarray start row	39	39
[deg] Pointing Roll	273.761291	273.9116643085736	Subarray row count	300	300
[s] Window start time (MET)	97146064.184000	97146064.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	97376464.184000	97376464.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.366523	-182.3582601915437			
[mm] SIM translation stage offset	-7.766	-7.774262391464134			
[s] Observation start time (MET)	97287391.184000	97286286.55081999			
Observation start date	2001-01-31T00:15:27	2001-01-30T23:58:06			
[s] Observation end time (MET)	97311532.184000	97311846.976805			
Observation end date	2001-01-31T06:57:48	2001-01-31T07:04:06			
Read mode	TIMED	TIMED			

2.3 Aspect



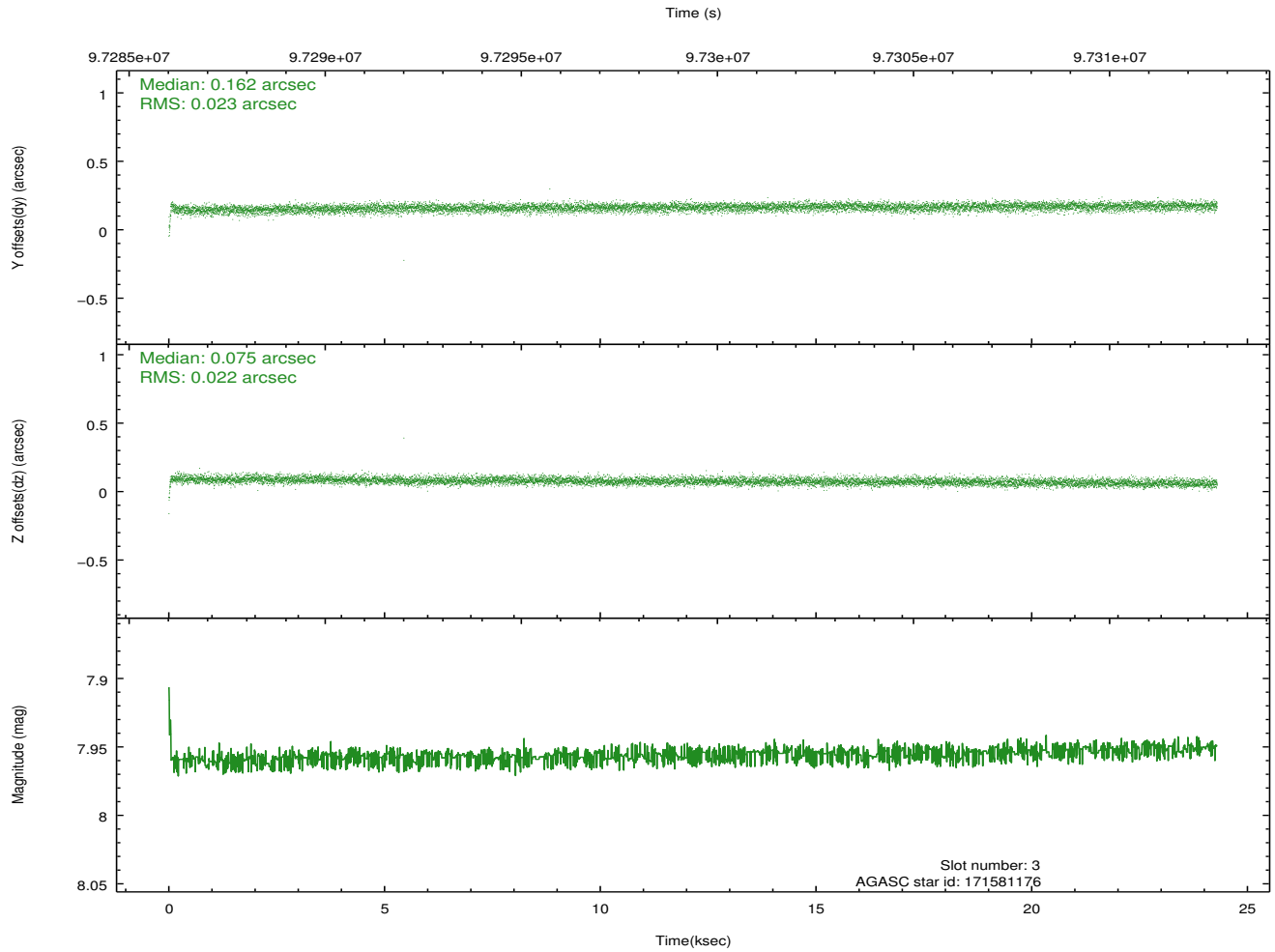
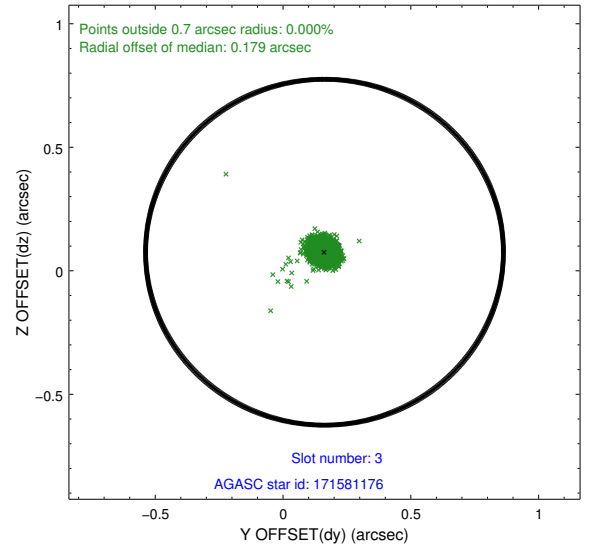
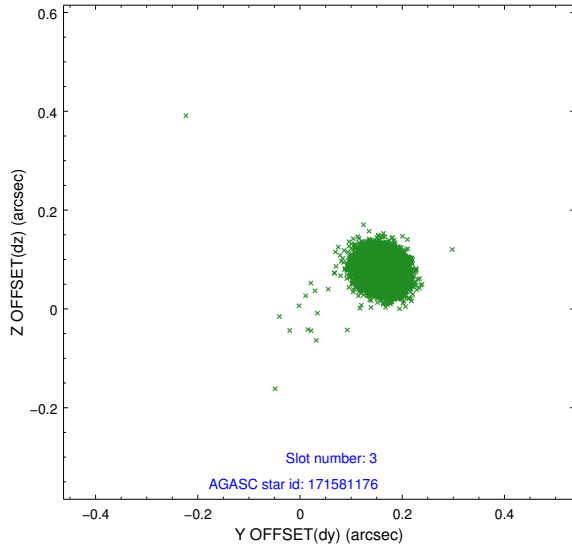


Slot Statistics

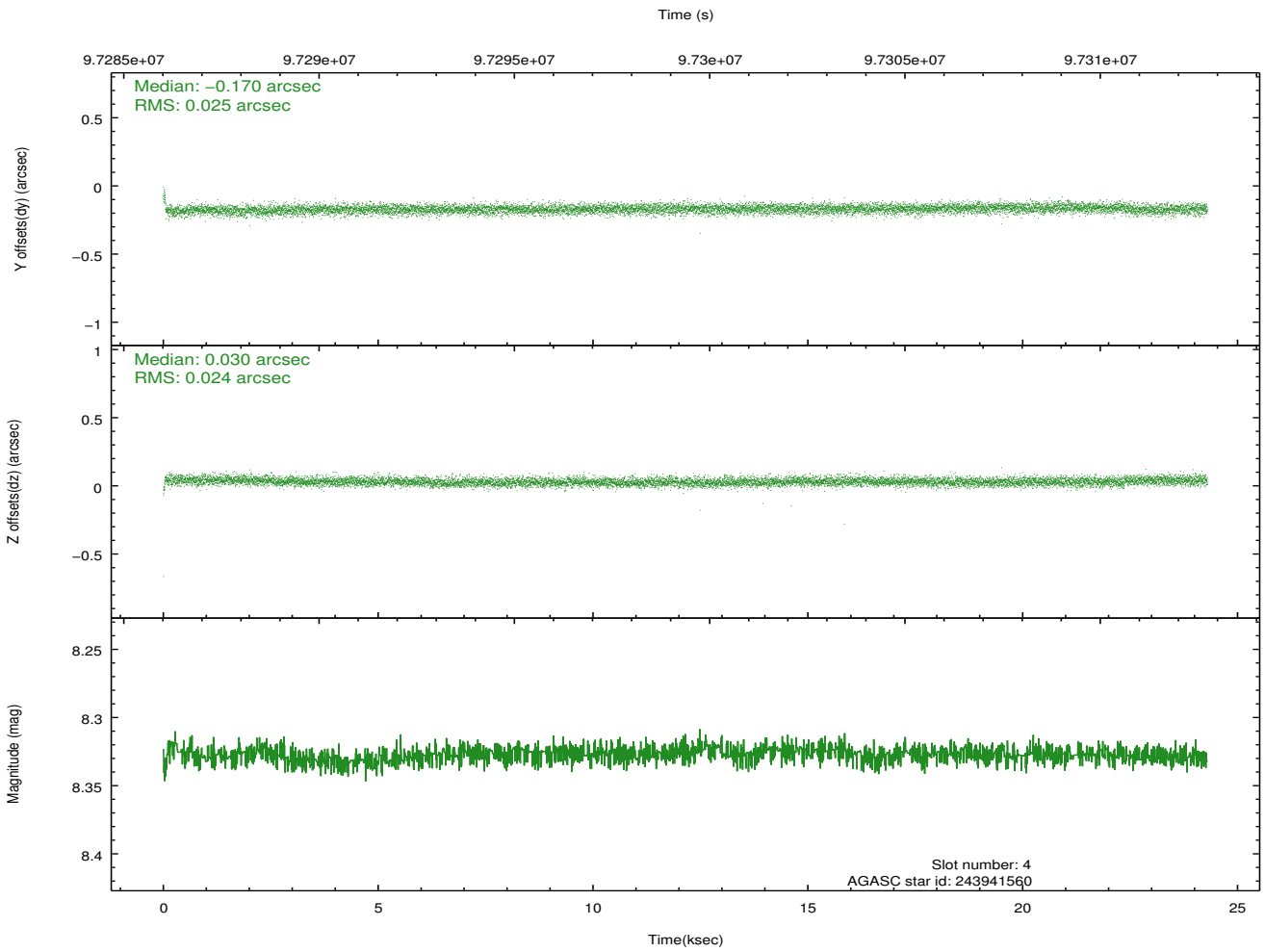
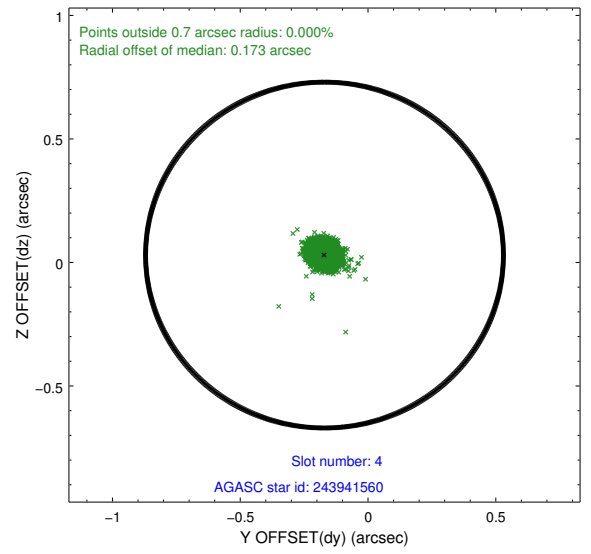
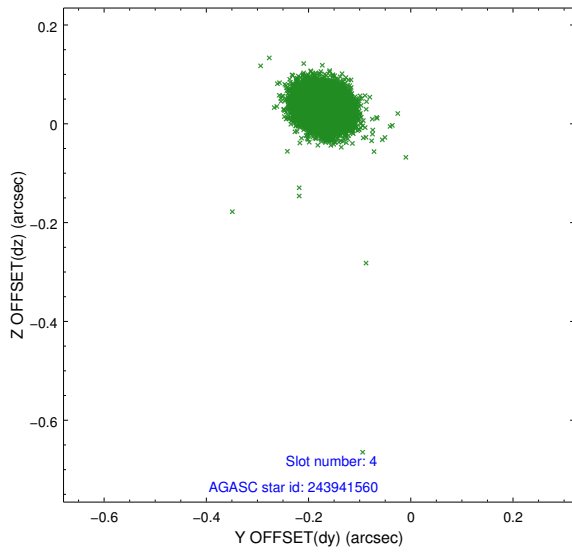
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	5926	-0.065	-0.072	0.006	0.010	0.000000	0.000000	-754.12	-1885.61
1	FID	ACIS-S-4	7.18	5926	0.038	0.051	0.006	0.011	0.000000	0.000000	2159.21	22.80
2	FID	ACIS-S-5	7.23	5926	-0.004	0.030	0.007	0.011	0.000000	0.000000	-1806.73	16.63
3	GUIDE	171581176	7.96	11853	0.162	0.075	0.032	0.053	83.918863	21.403256	2328.20	873.08
4	GUIDE	243941560	8.33	11851	-0.170	0.030	0.035	0.058	83.733264	22.568598	-1898.29	523.97
5	GUIDE	171585880	8.40	11853	-0.067	-0.204	0.039	0.065	83.676260	22.176319	-501.66	242.62
6	GUIDE	171586976	8.50	11851	-0.048	0.176	0.038	0.061	83.857953	22.438065	-1402.77	907.71
7	GUIDE	171597832	9.17	11844	0.125	-0.079	0.056	0.094	83.183230	21.366702	2296.75	-1596.40

2.4 Star Slots

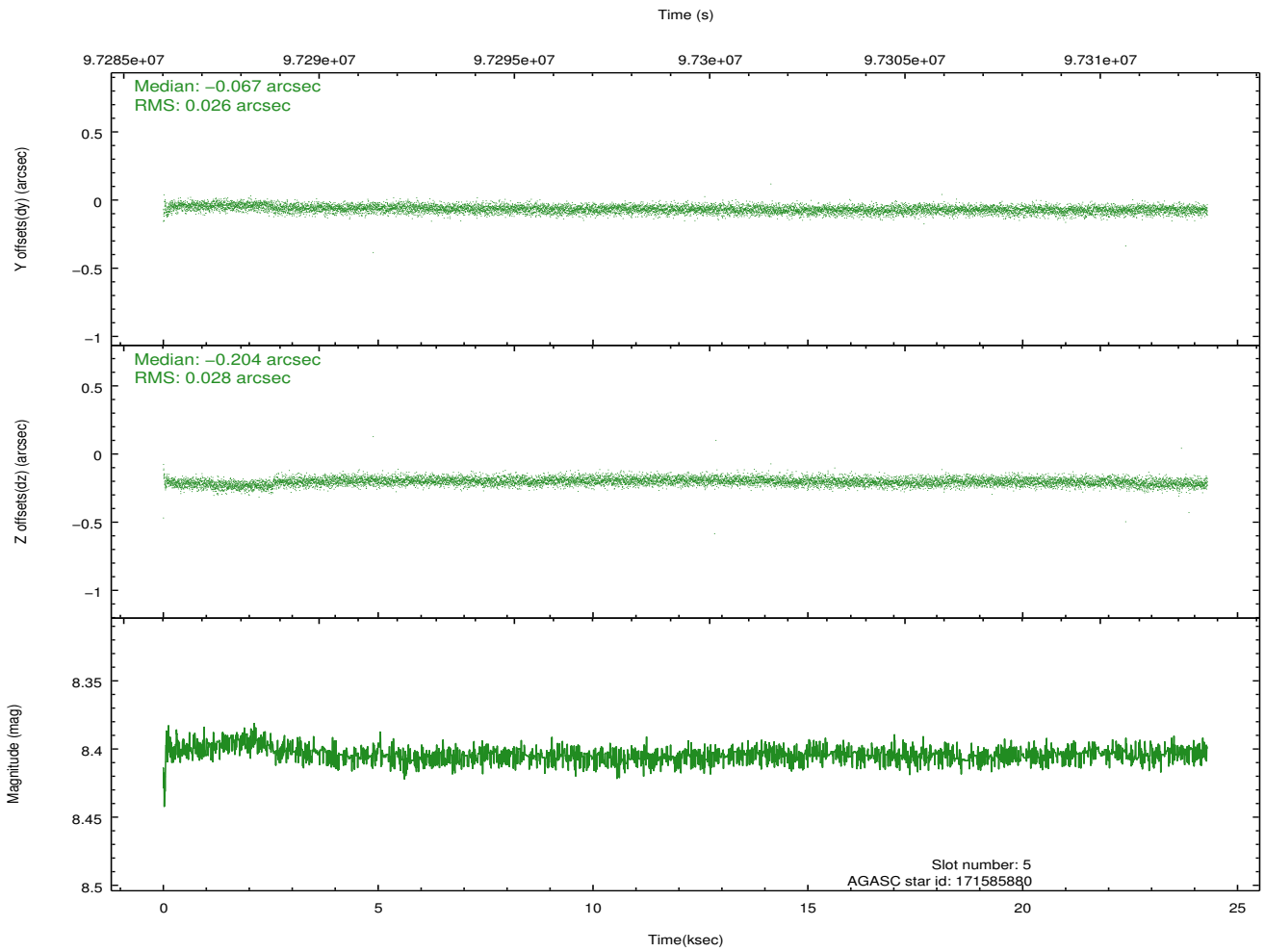
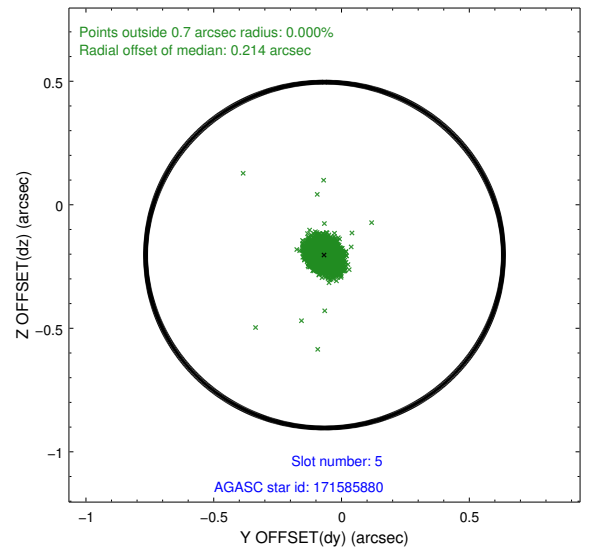
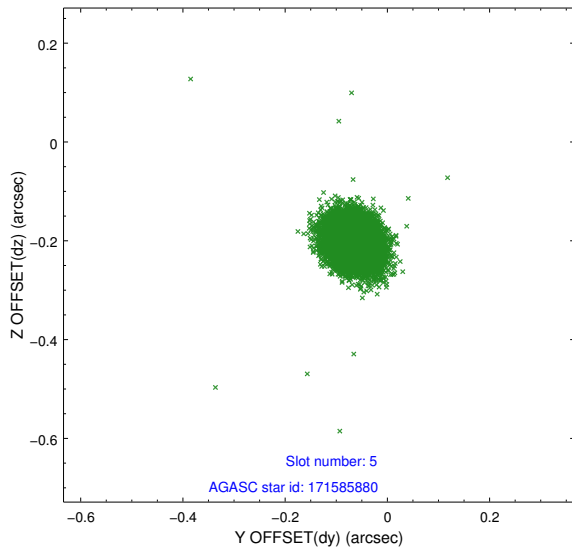
2.4.1 Slot 3



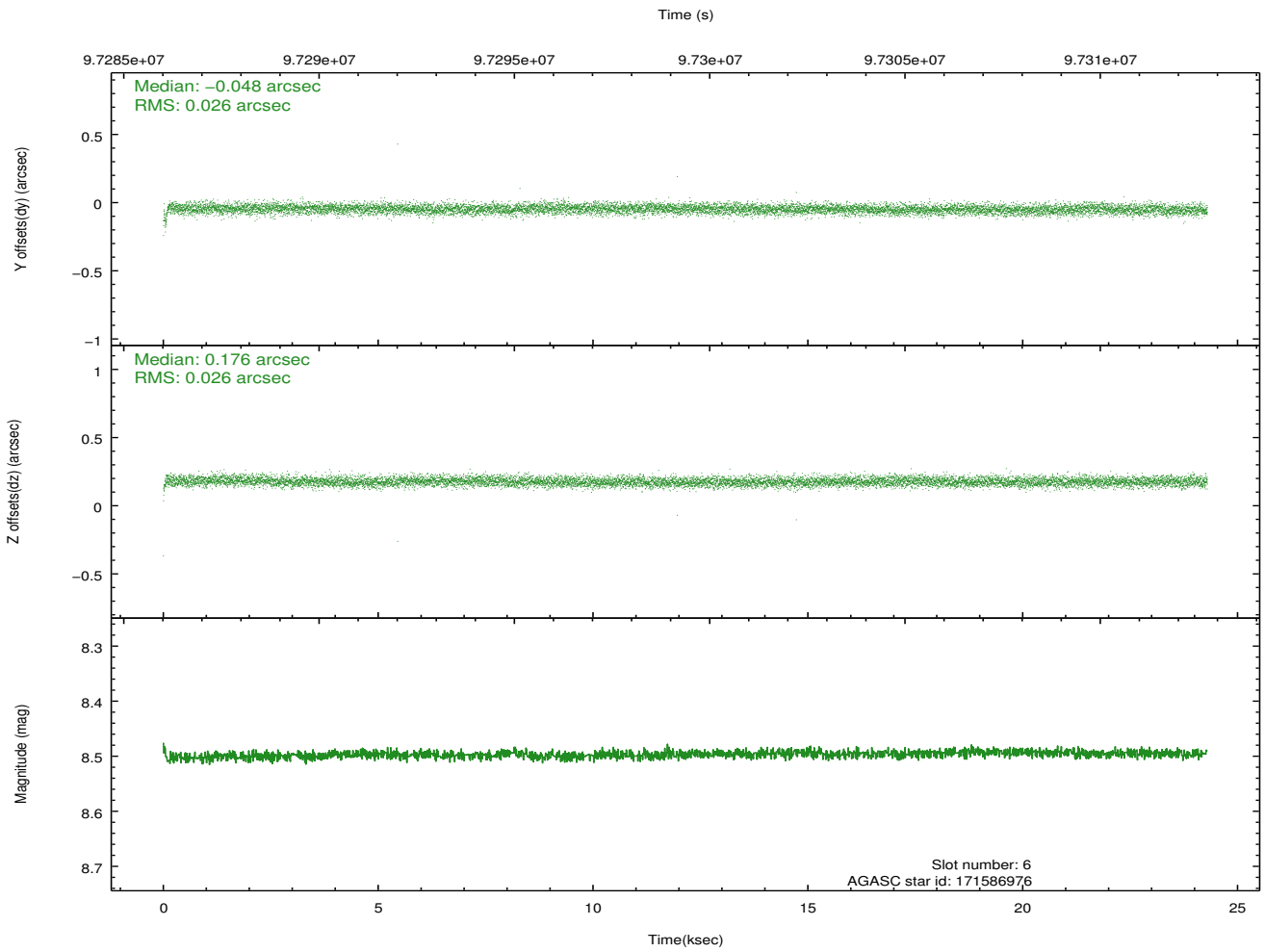
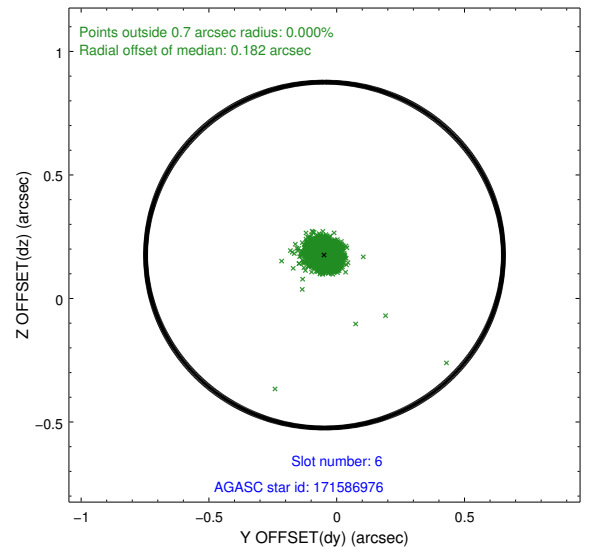
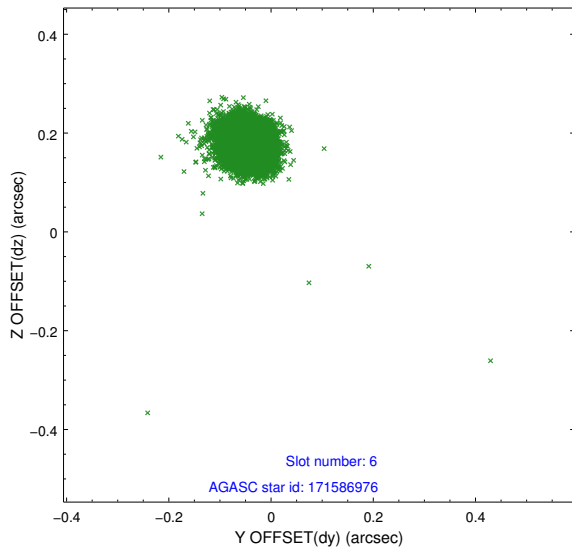
2.4.2 Slot 4



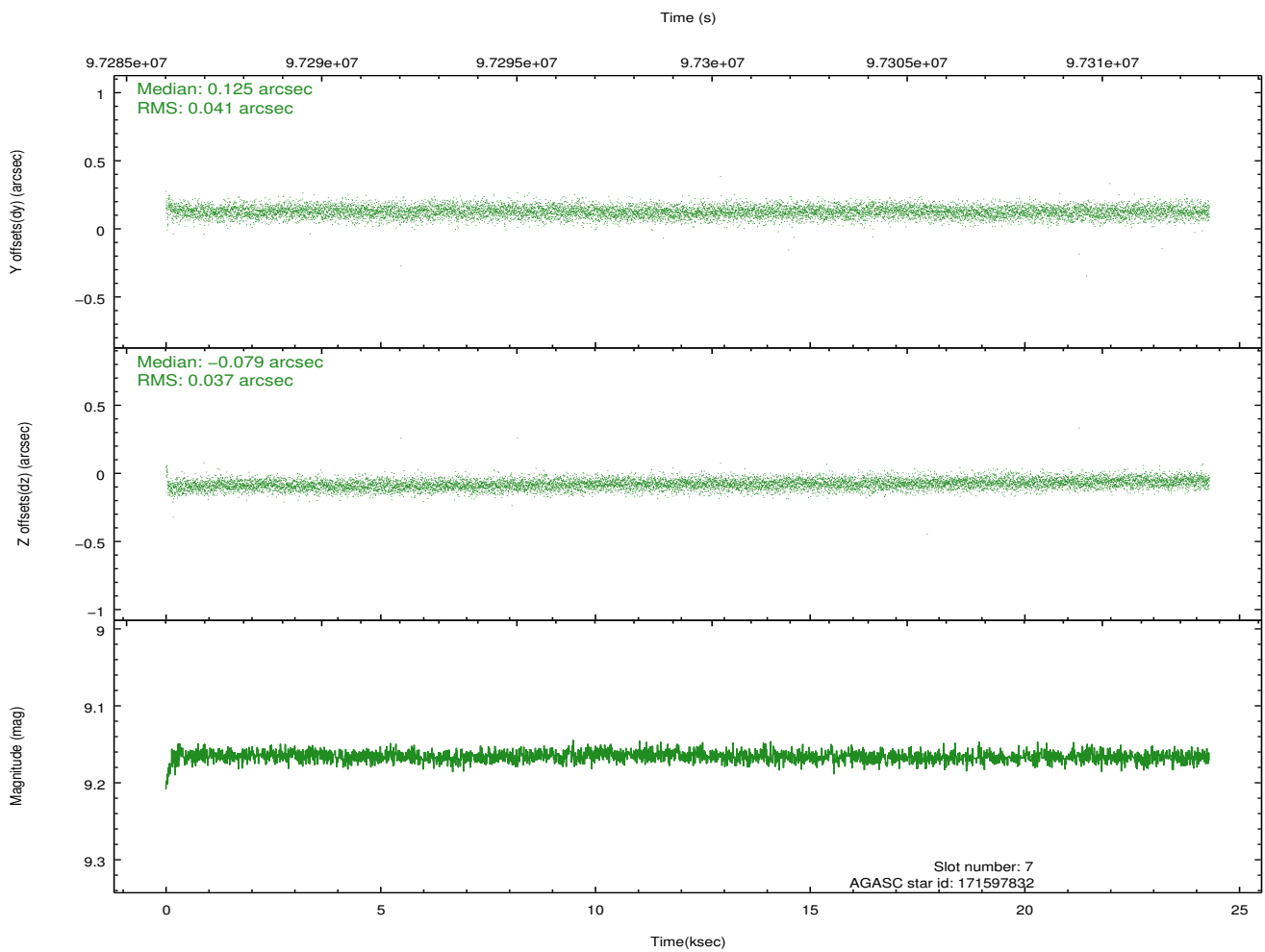
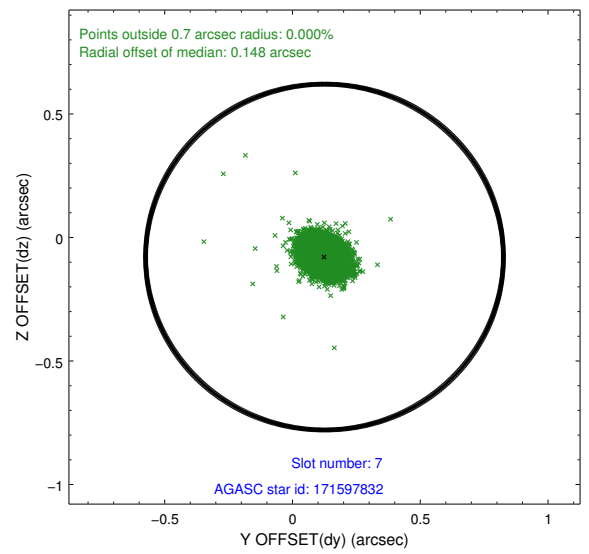
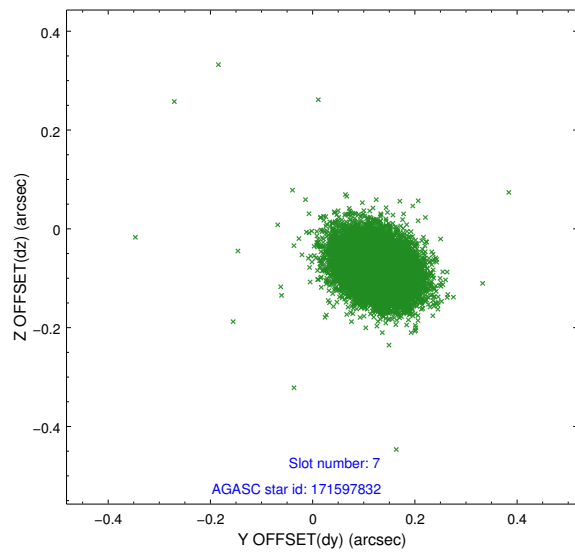
2.4.3 Slot 5



2.4.4 Slot 6

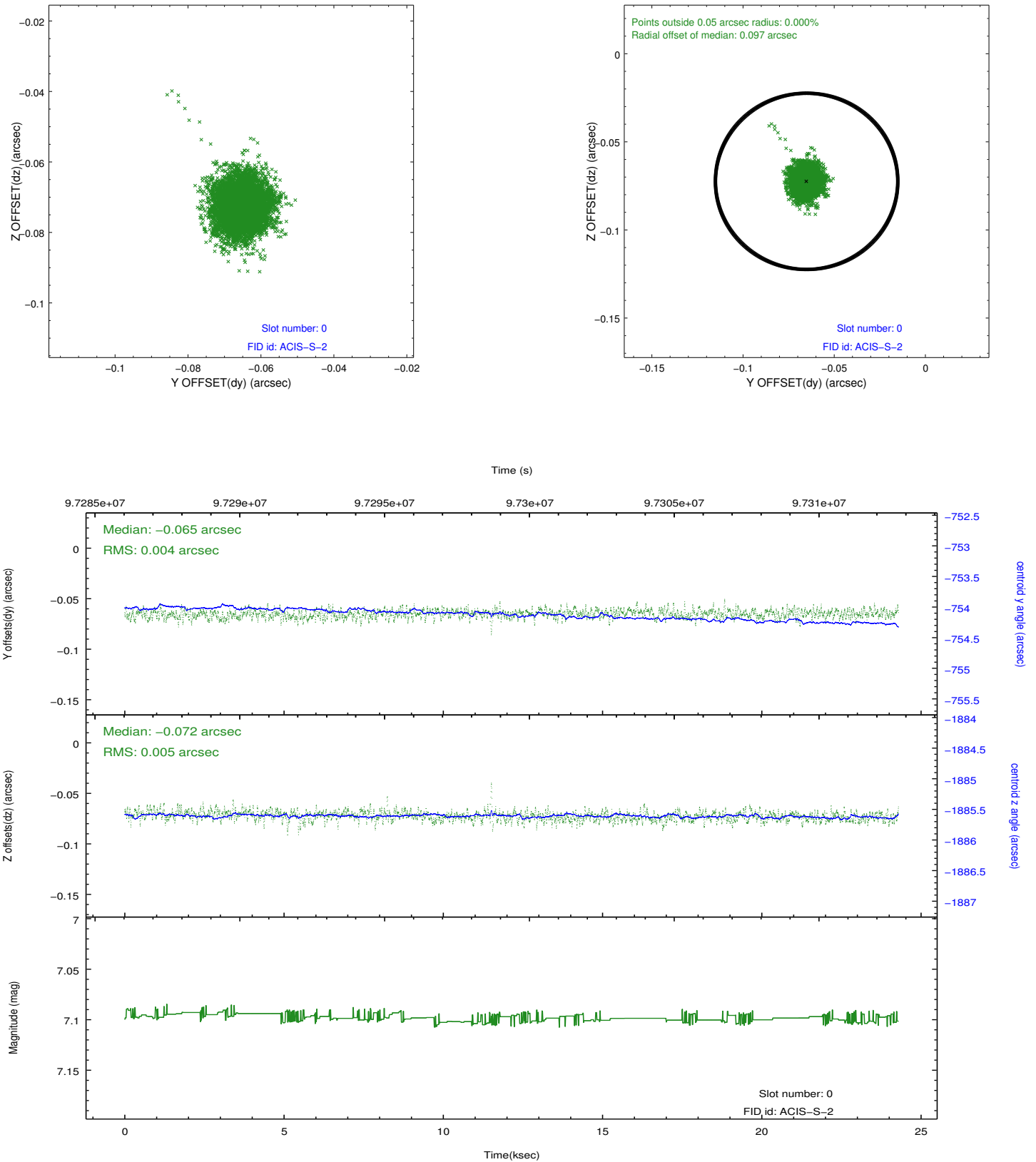


2.4.5 Slot 7

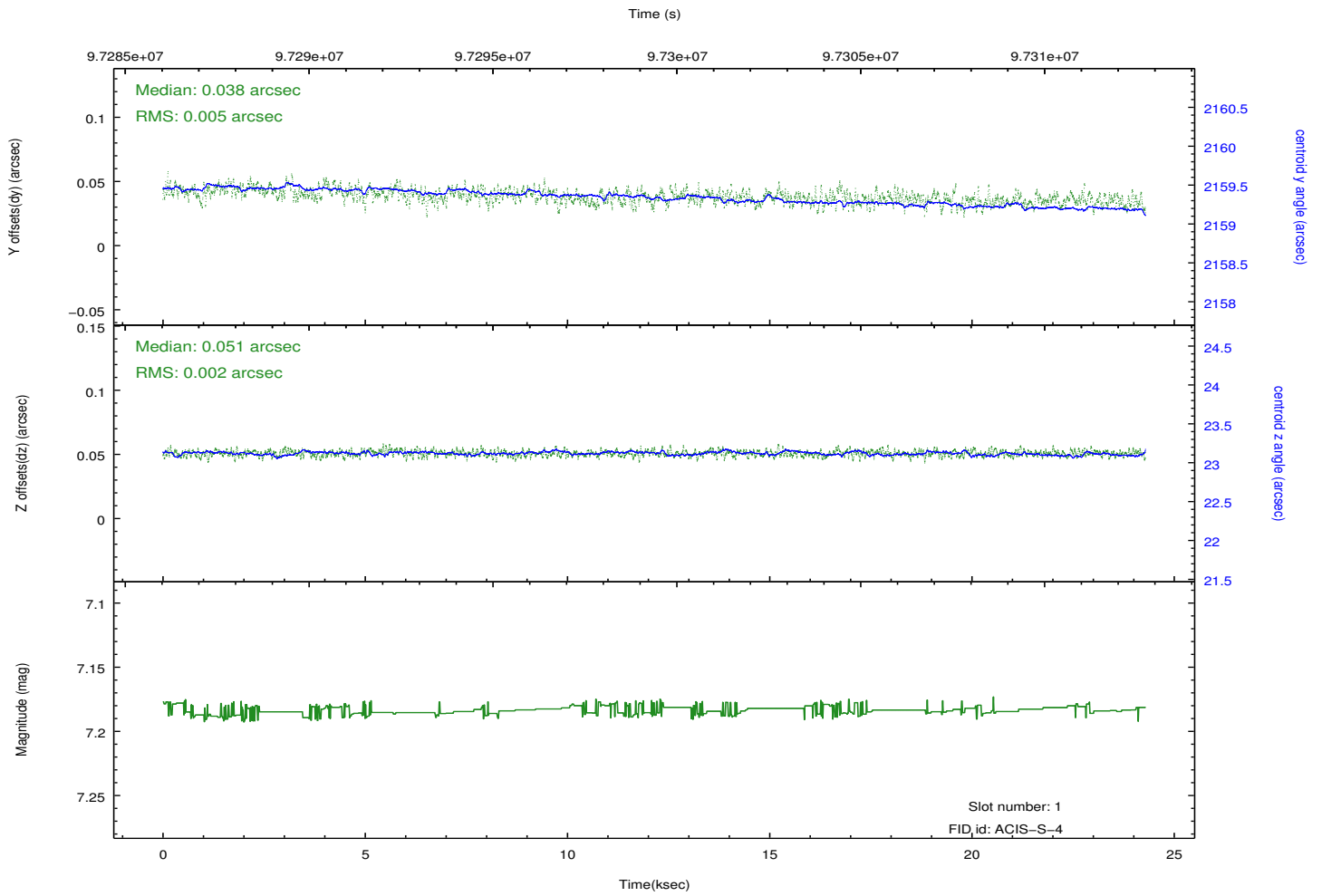
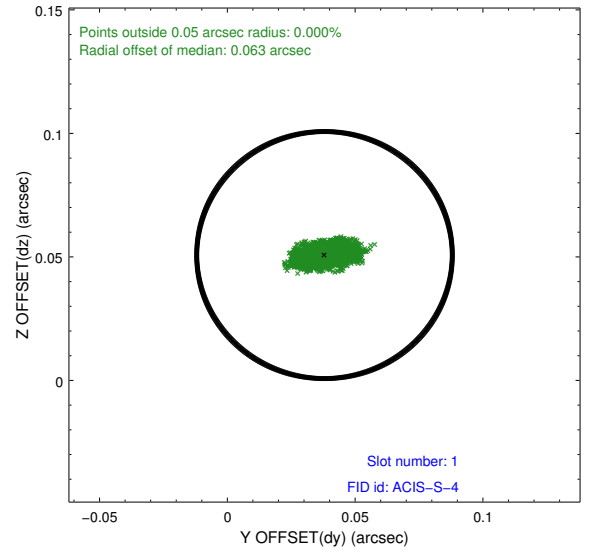
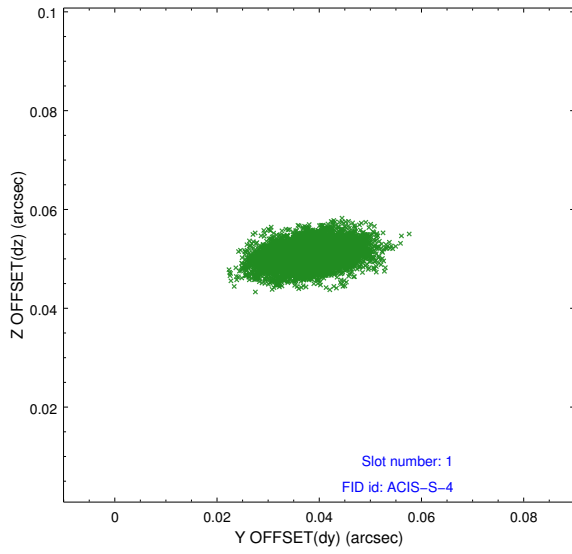


2.5 FID Slots

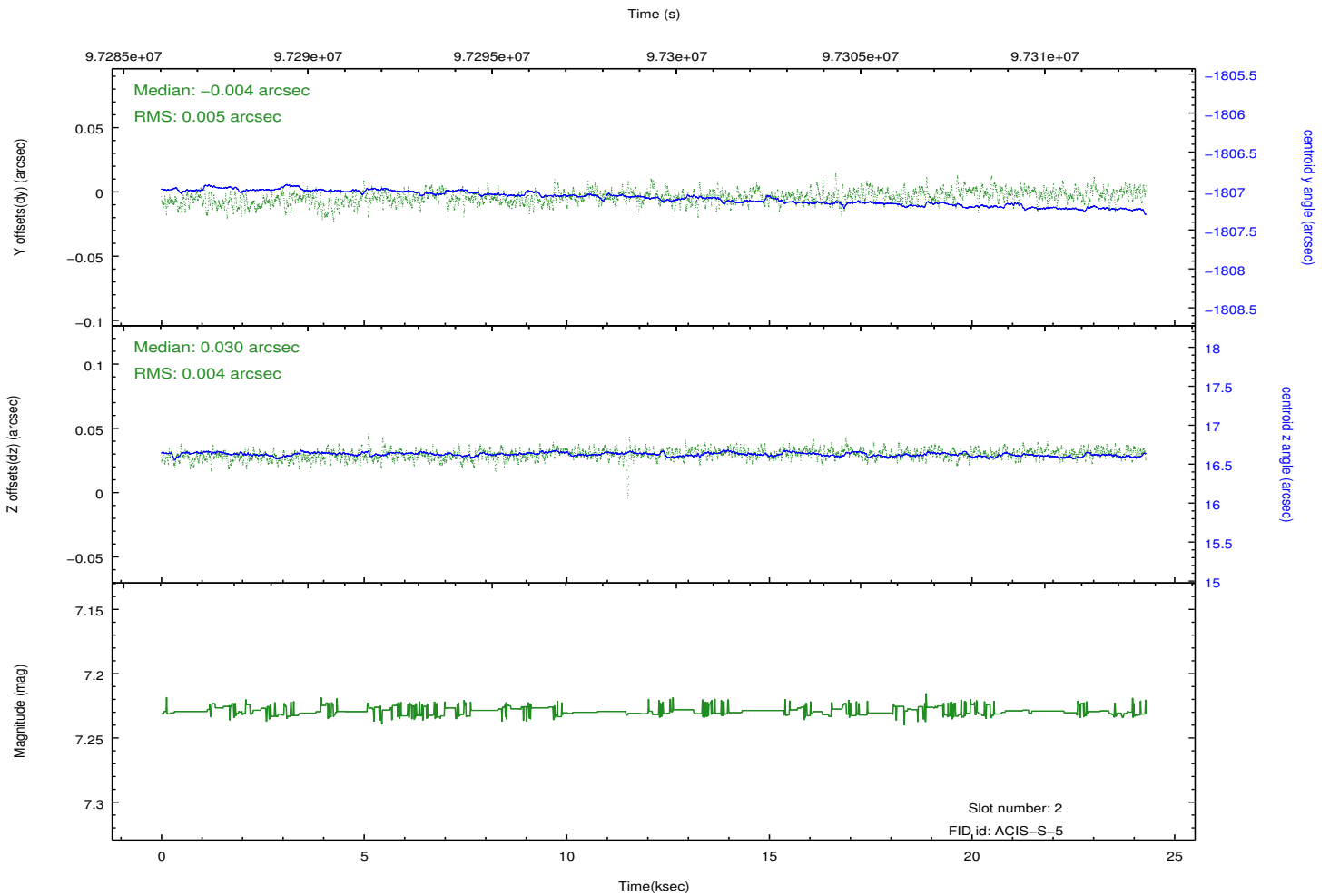
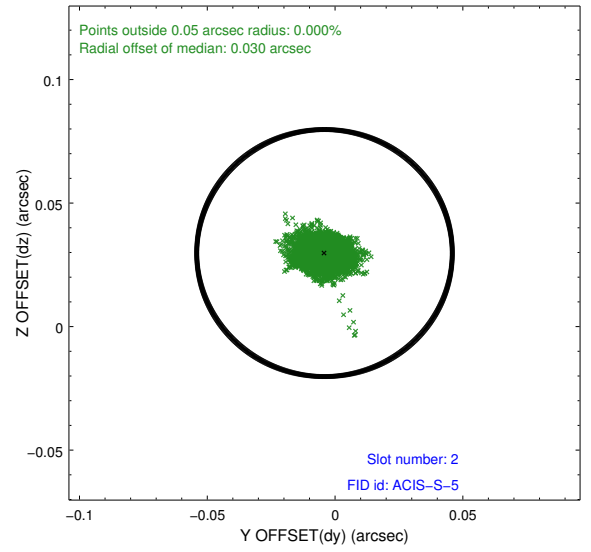
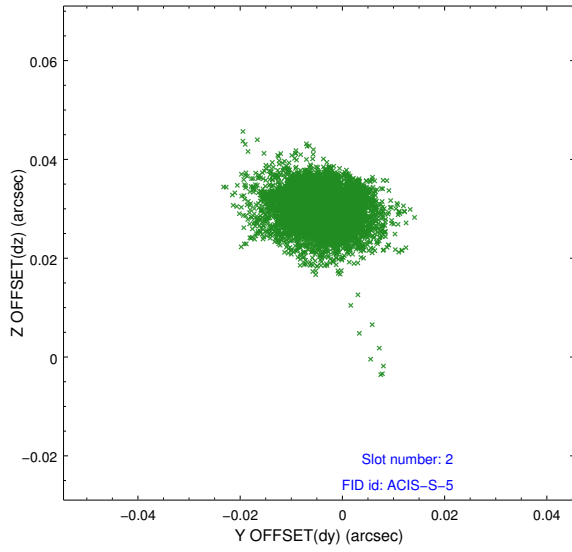
2.5.1 Slot 0



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)	2012.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.599

A.2 Comments

Charge time for this ObsId remains at original value of 22.599 ks, although with the current processing the charge time would have been 14.601 ksec. The difference is due to improved accounting for telemetry saturation resulting in a large number of dropped exposures. Window constraint met. Dither is not enabled for this observation.