

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13209 - L2 Version 2
Chandra X-Ray Center

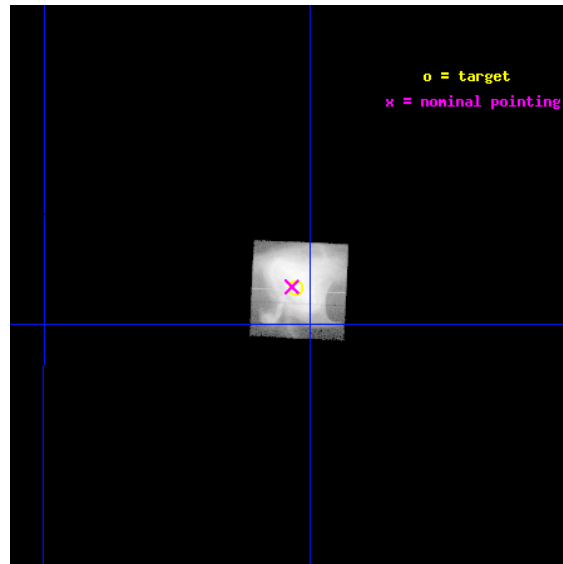
L2 Processing Date : Feb 22 2012

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1 Front

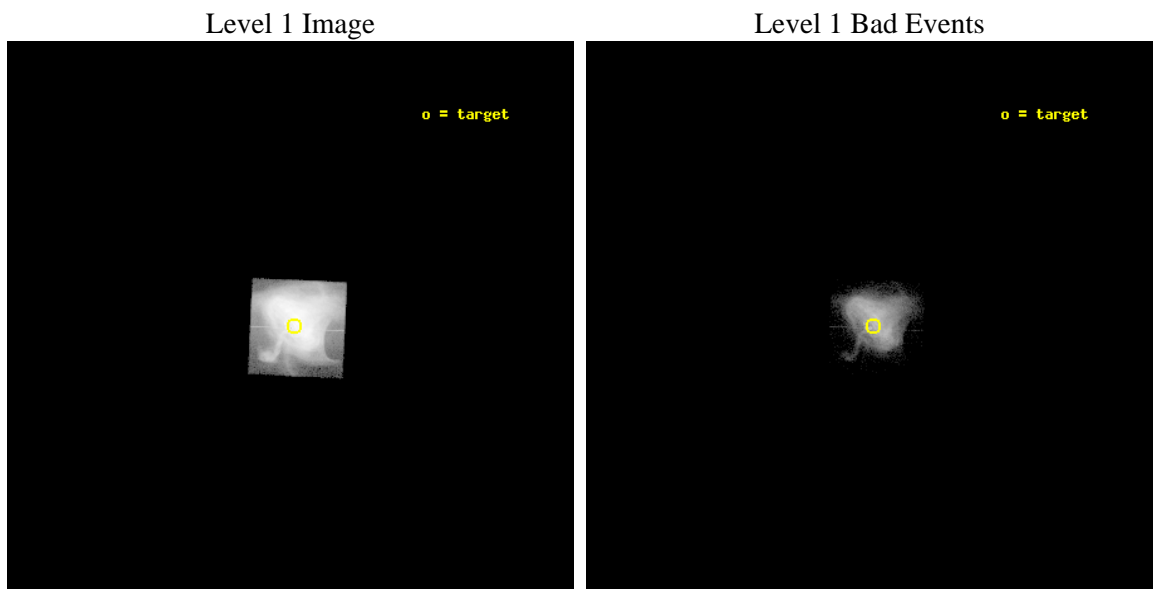
seq_num	501547	Sequence number
obs_id	13209	Observation id
title	Monitoring of the Crab Nebula	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.633390145774	Nominal RA [deg]
dec_nom	22.016030920274	Nominal Dec [deg]
roll_nom	92.699671417318	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3374.5860815048	Sum of GTIs [s]
livetime	587.84553557205	Livetime [s]
ontime7	3374.5860815048	Sum of GTIs [s]
l2events	1704646	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3374.5860815048	Sum of GTIs [s]
caldsver	4.4.8	 	ontime7	3374.5860815048	Sum of GTIs [s]
date	2012-02-23T00:46:45	Date and time of file creation	l1events	1887739	Number of level 1 events
revision	2	Processing version of data			

2.1.3 Events

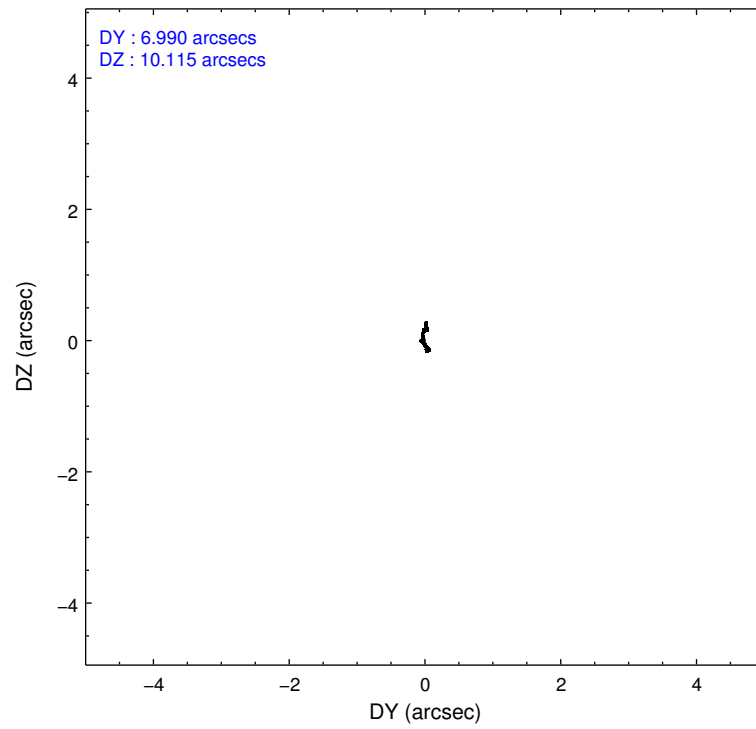
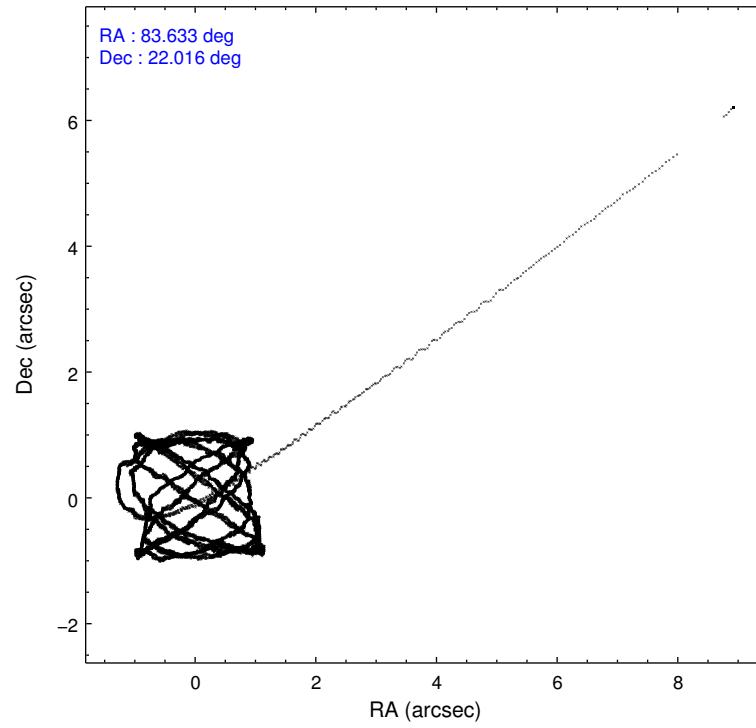
	ccd 7
level 1 events	1887739
rejected events	171266
rejected %	9%

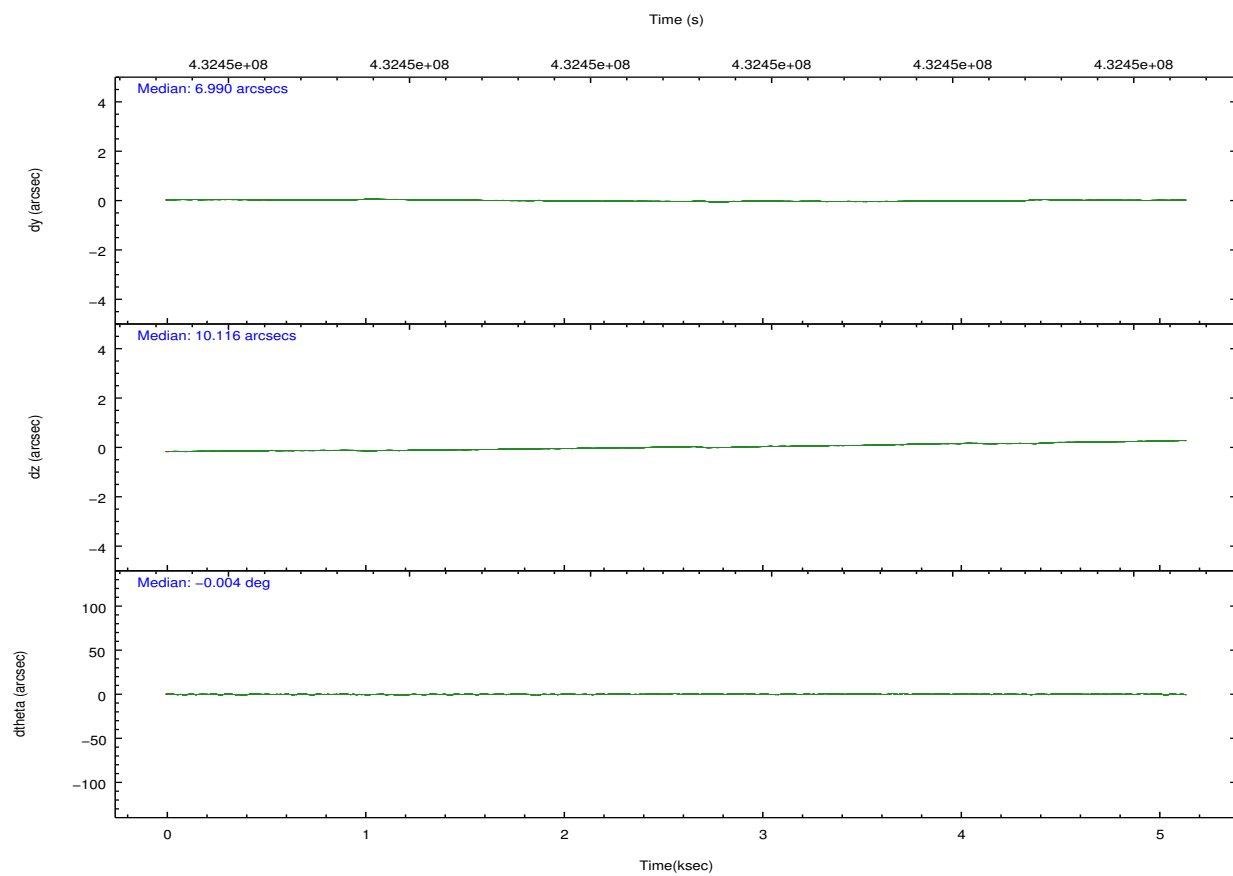
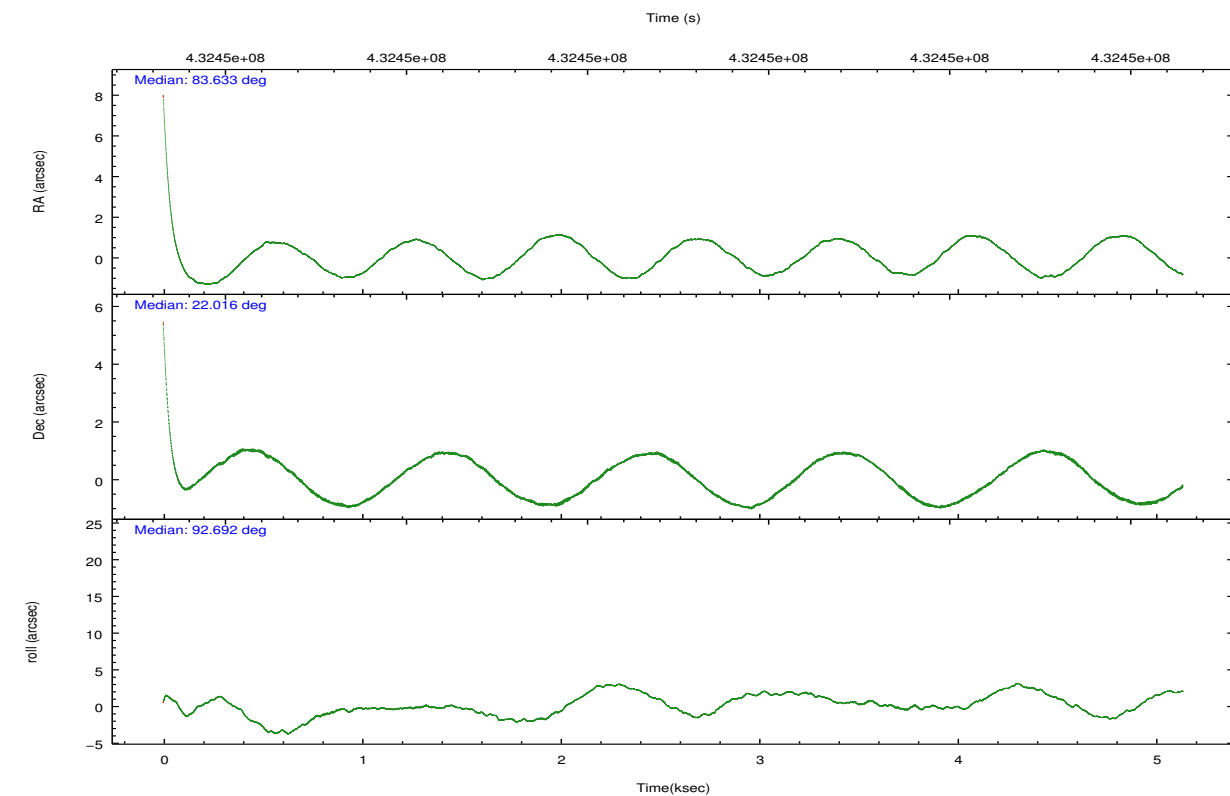
	ccd 7
grade 0 events	367408
	19%
grade 1 events	20997
	1%
grade 2 events	470931
	24%
grade 3 events	190365
	10%
grade 4 events	190101
	10%
grade 5 events	61872
	3%
grade 6 events	498271
	26%
grade 7 events	87794
	4%

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	83.649654	83.63339014577359	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	21.993213	22.01603092027354	Subarray start row	145	145
[deg] Pointing Roll	92.536945	92.69967141731816	Subarray row count	300	300
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.2
[mm] SIM translation stage pos	-185.516523	-185.516240210303			
[mm] SIM translation stage offset	-4.616	-4.616282372704774			
[s] Observation start time (MET)	432447044.184000	432445887.49319			
Observation start date	2011-09-15T04:09:38	2011-09-15T03:51:27			
[s] Observation end time (MET)	432452044.184000	432453459.68109			
Observation end date	2011-09-15T05:32:58	2011-09-15T05:57:39			
Read mode	TIMED	TIMED			

2.3 Aspect



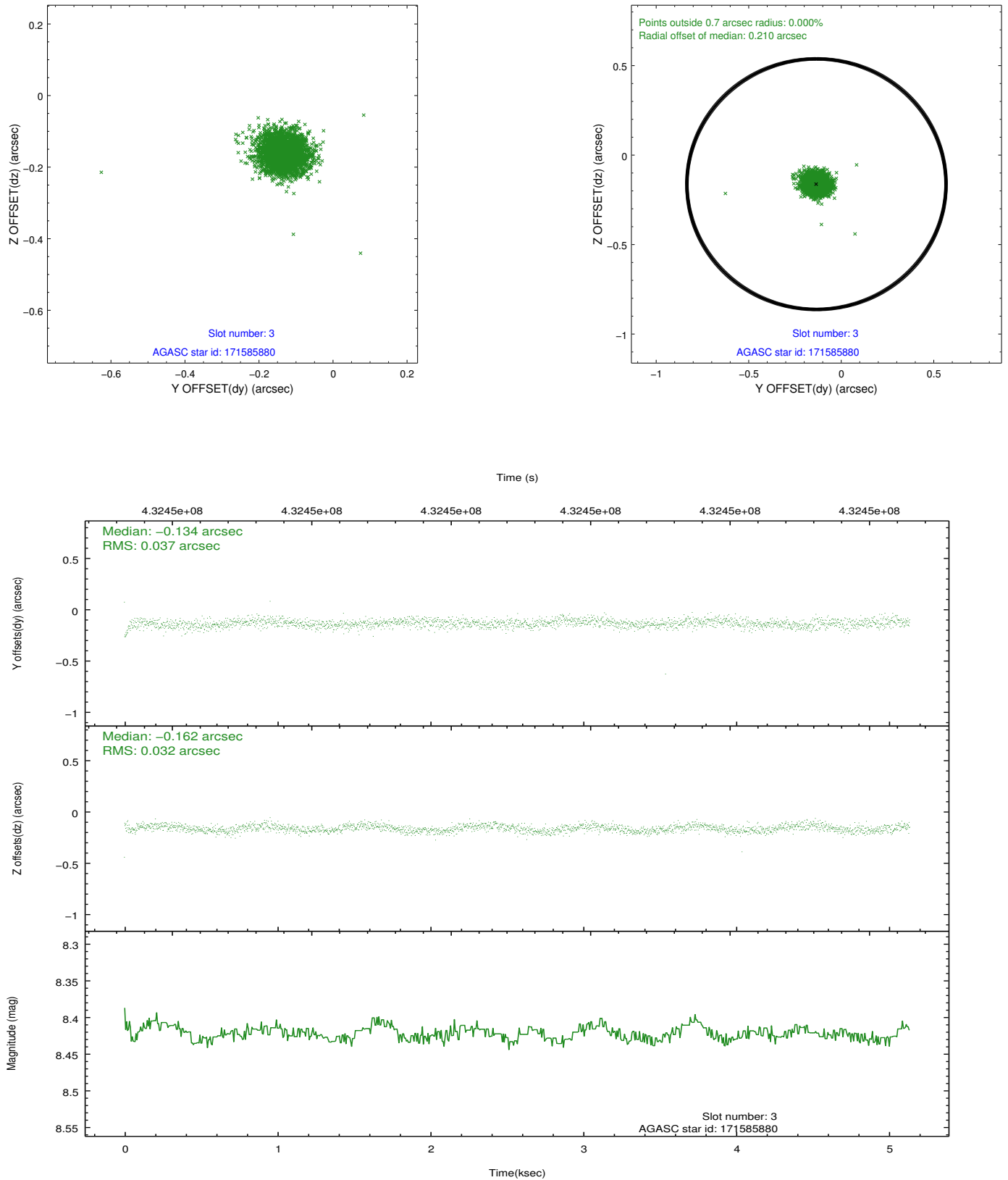


Slot Statistics

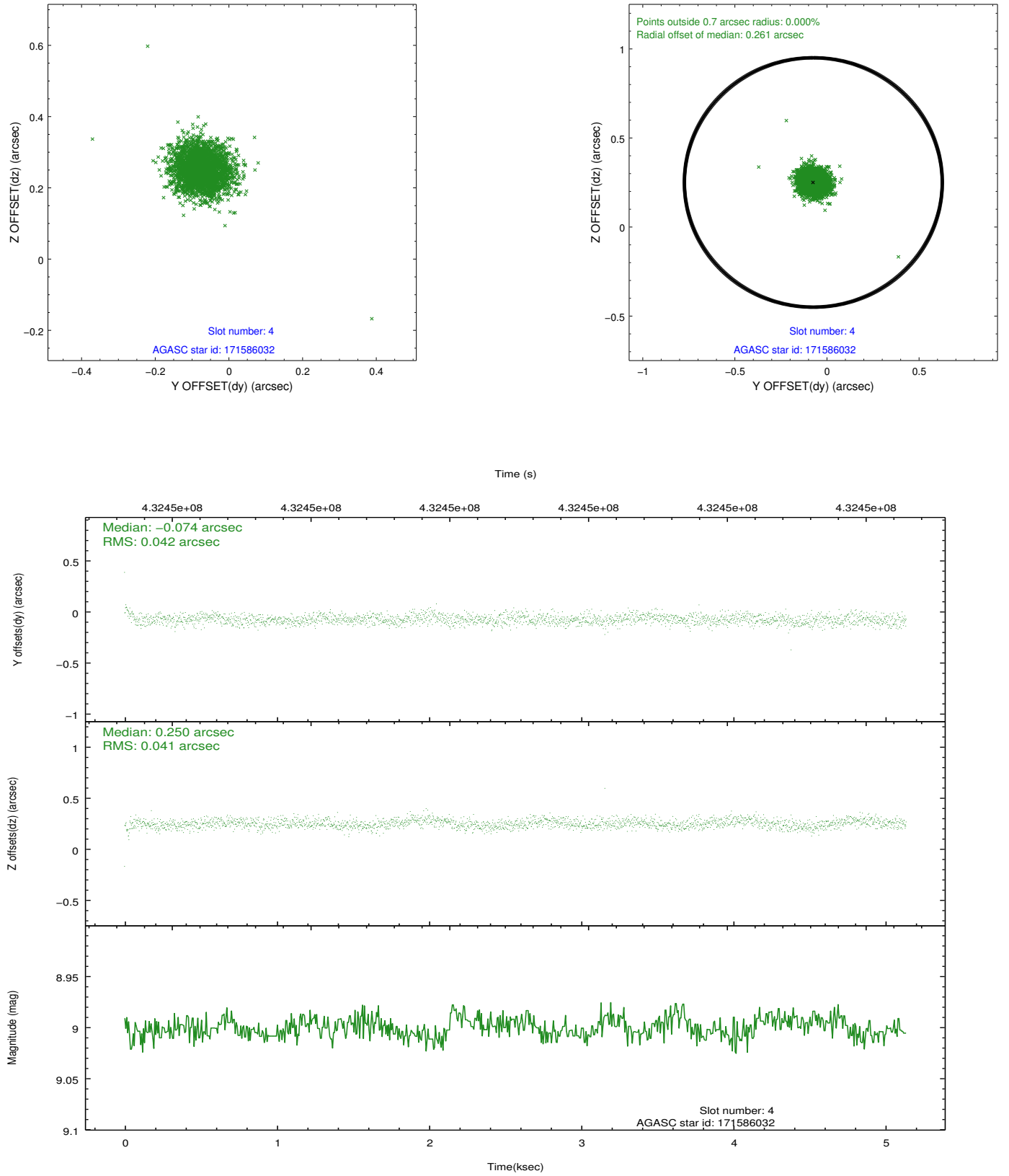
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.99	1254	-0.096	-0.071	0.008	0.015	0.000000	0.000000	-759.52	-1826.65
1	FID	ACIS-S-4	7.08	1252	0.182	0.065	0.008	0.016	0.000000	0.000000	2153.50	80.64
2	FID	ACIS-S-5	7.13	1254	-0.117	0.014	0.008	0.014	0.000000	0.000000	-1810.86	75.63
3	GUIDE	171585880	8.42	2503	-0.134	-0.162	0.050	0.081	83.676260	22.176319	654.75	-117.64
4	GUIDE	171586032	9.00	2506	-0.074	0.250	0.060	0.097	83.950197	22.083225	280.90	-1015.52
5	GUIDE	171597832	9.19	2506	0.369	-0.335	0.088	0.148	83.183230	21.366702	-2181.18	1661.21
6	GUIDE	171721904	9.22	2505	-0.064	0.197	0.079	0.129	84.272676	22.116922	356.77	-2094.57
7	GUIDE	243941560	8.32	2506	-0.093	0.048	0.063	0.105	83.733264	22.568598	2057.28	-369.52

2.4 Star Slots

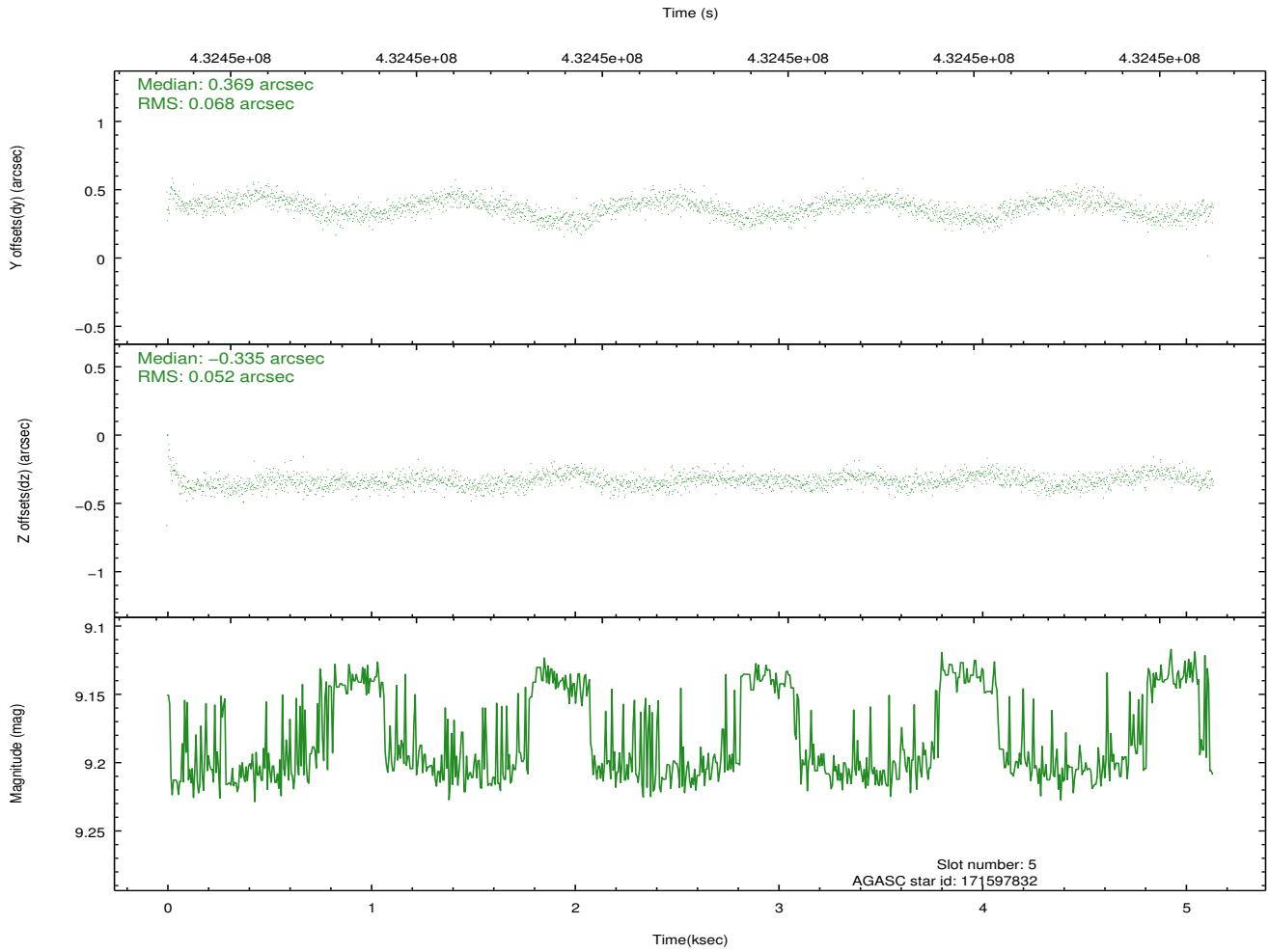
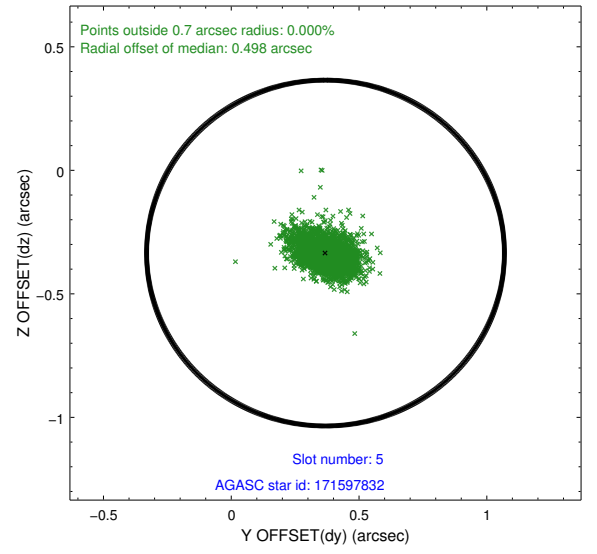
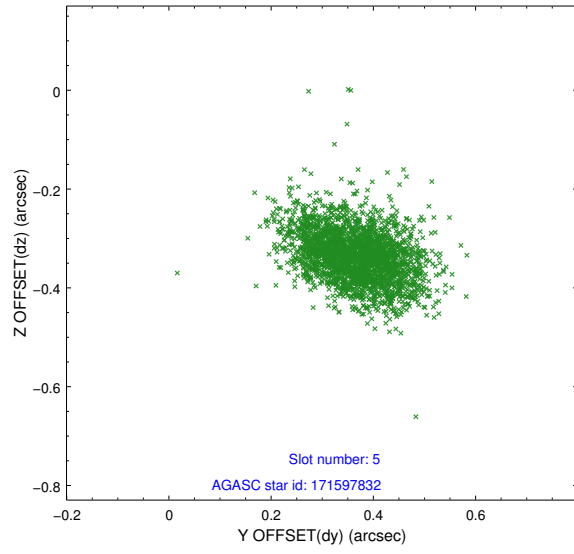
2.4.1 Slot 3



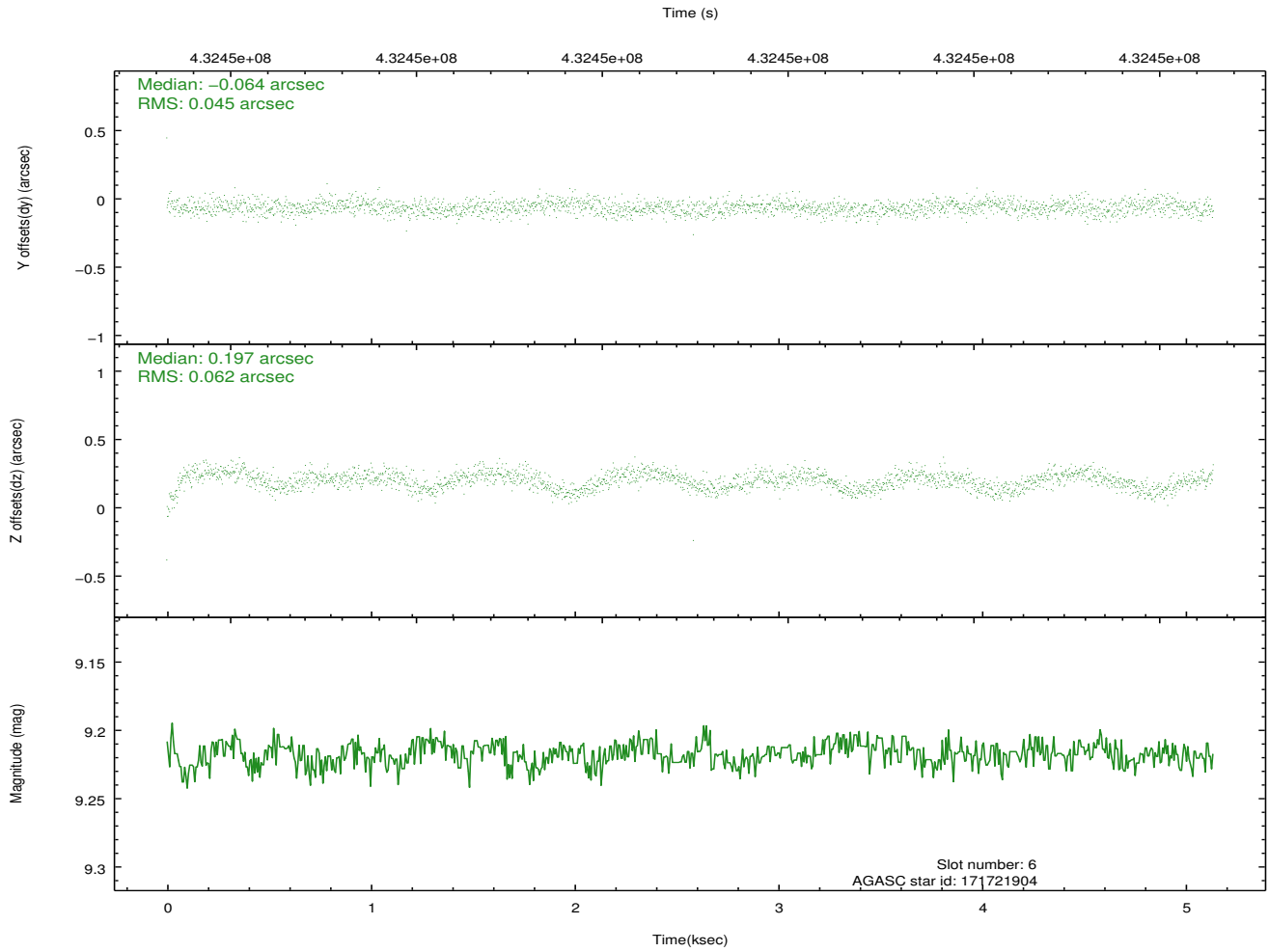
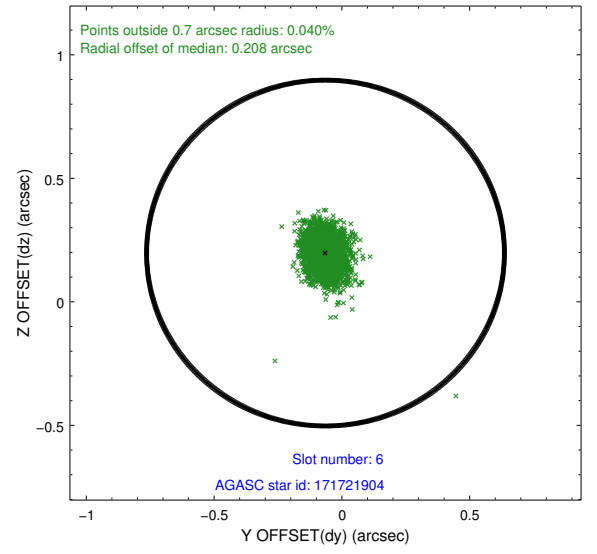
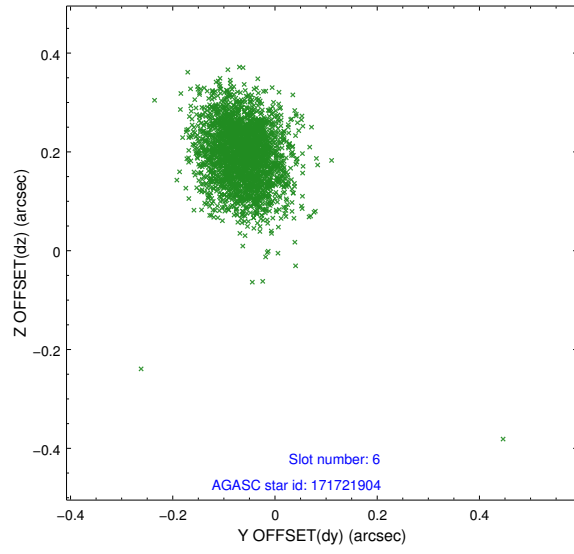
2.4.2 Slot 4



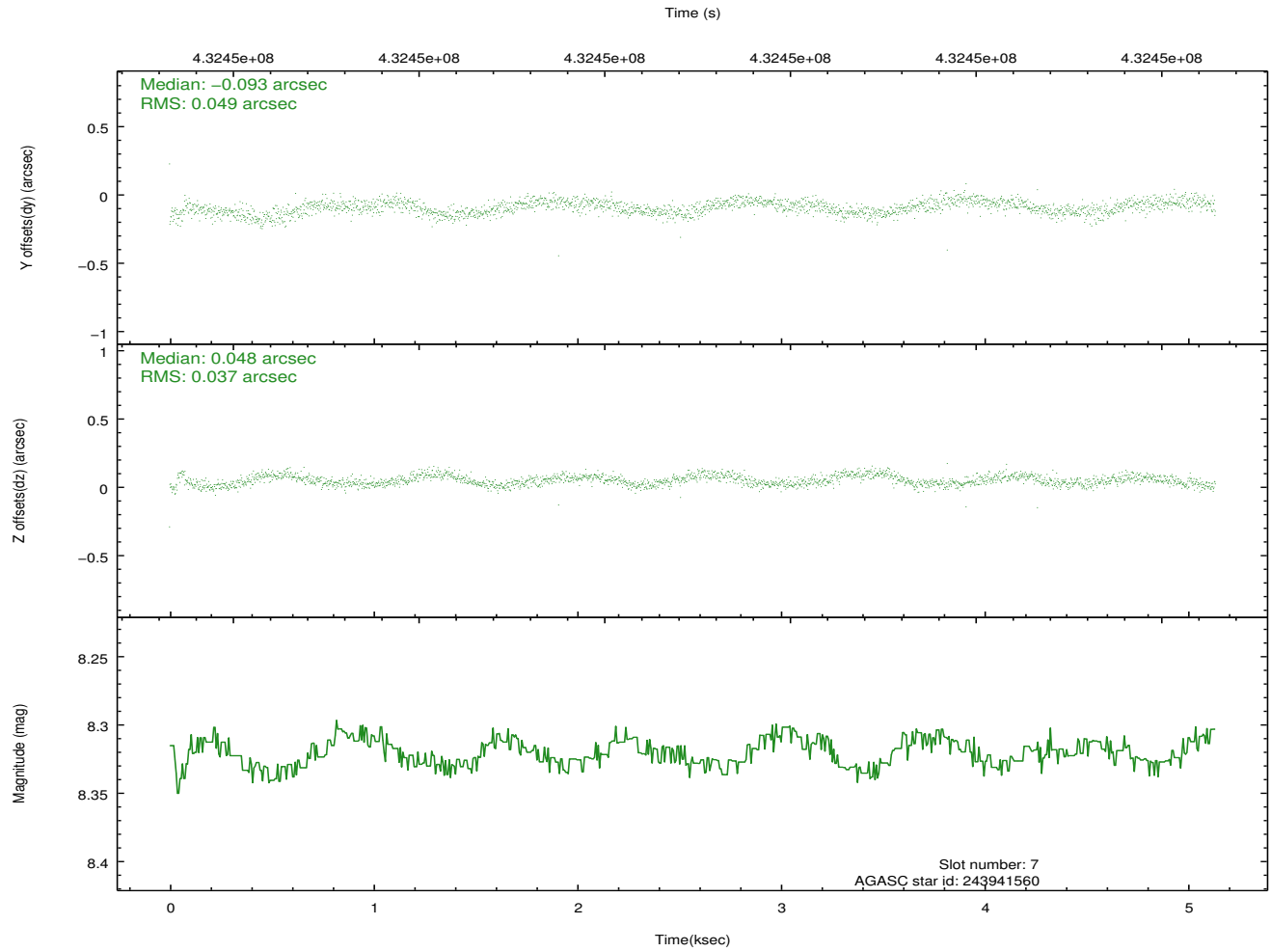
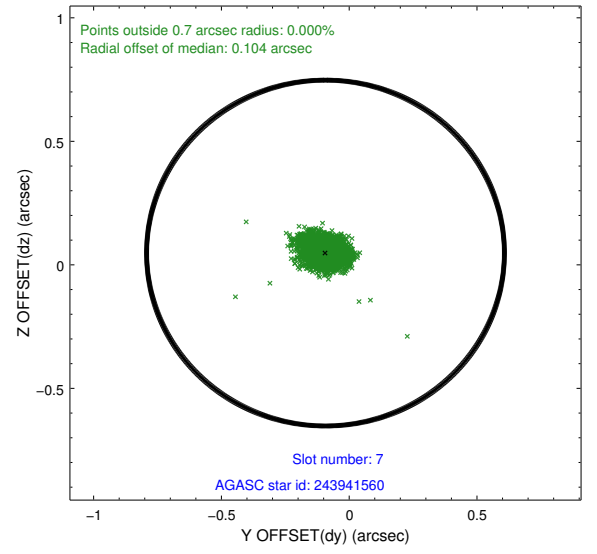
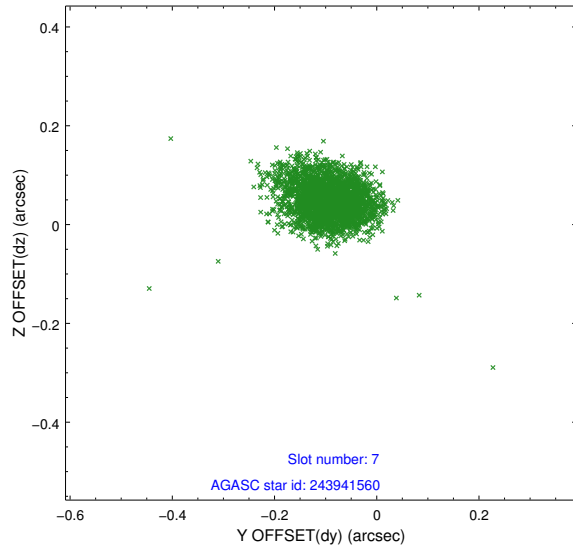
2.4.3 Slot 5



2.4.4 Slot 6

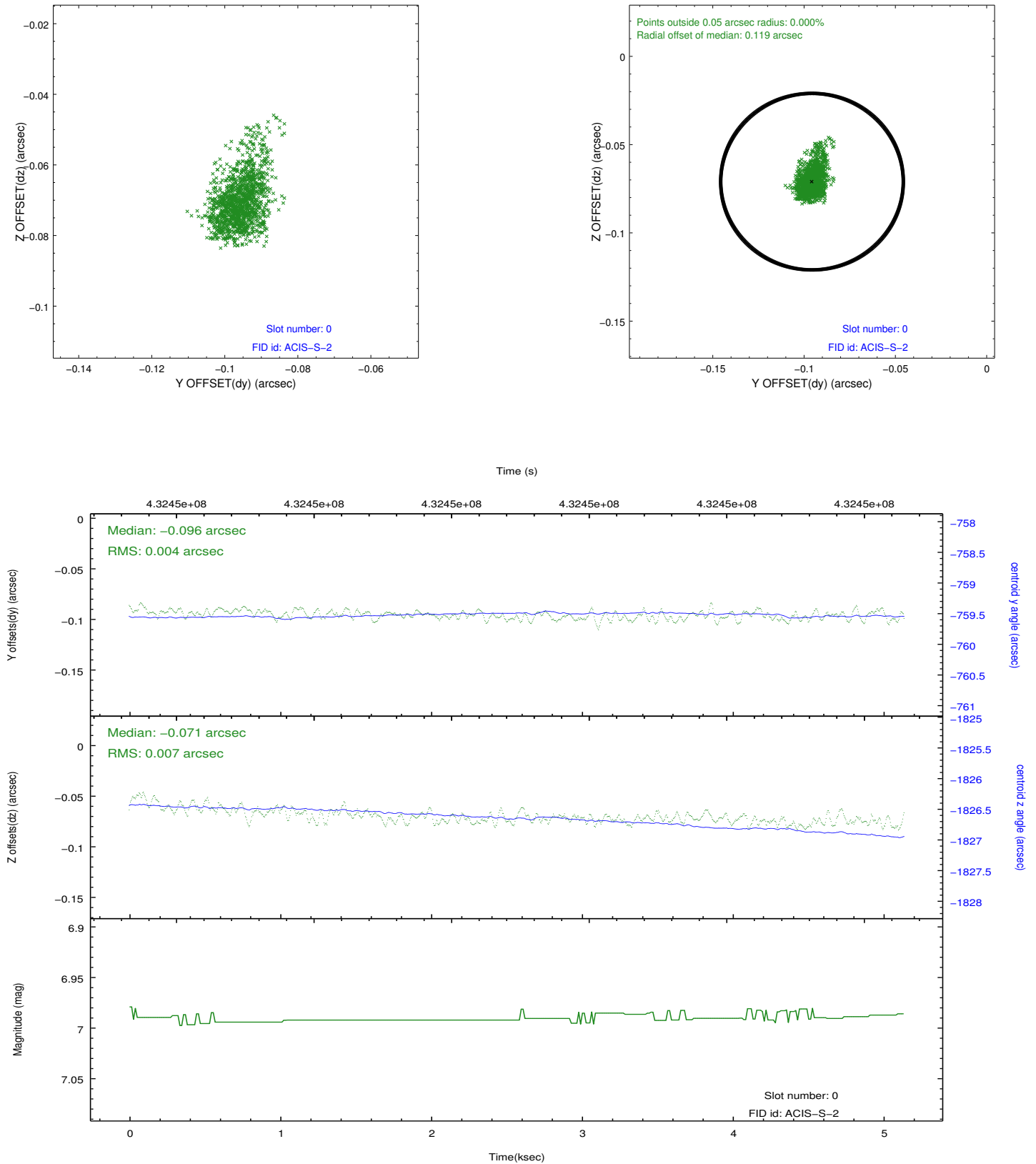


2.4.5 Slot 7

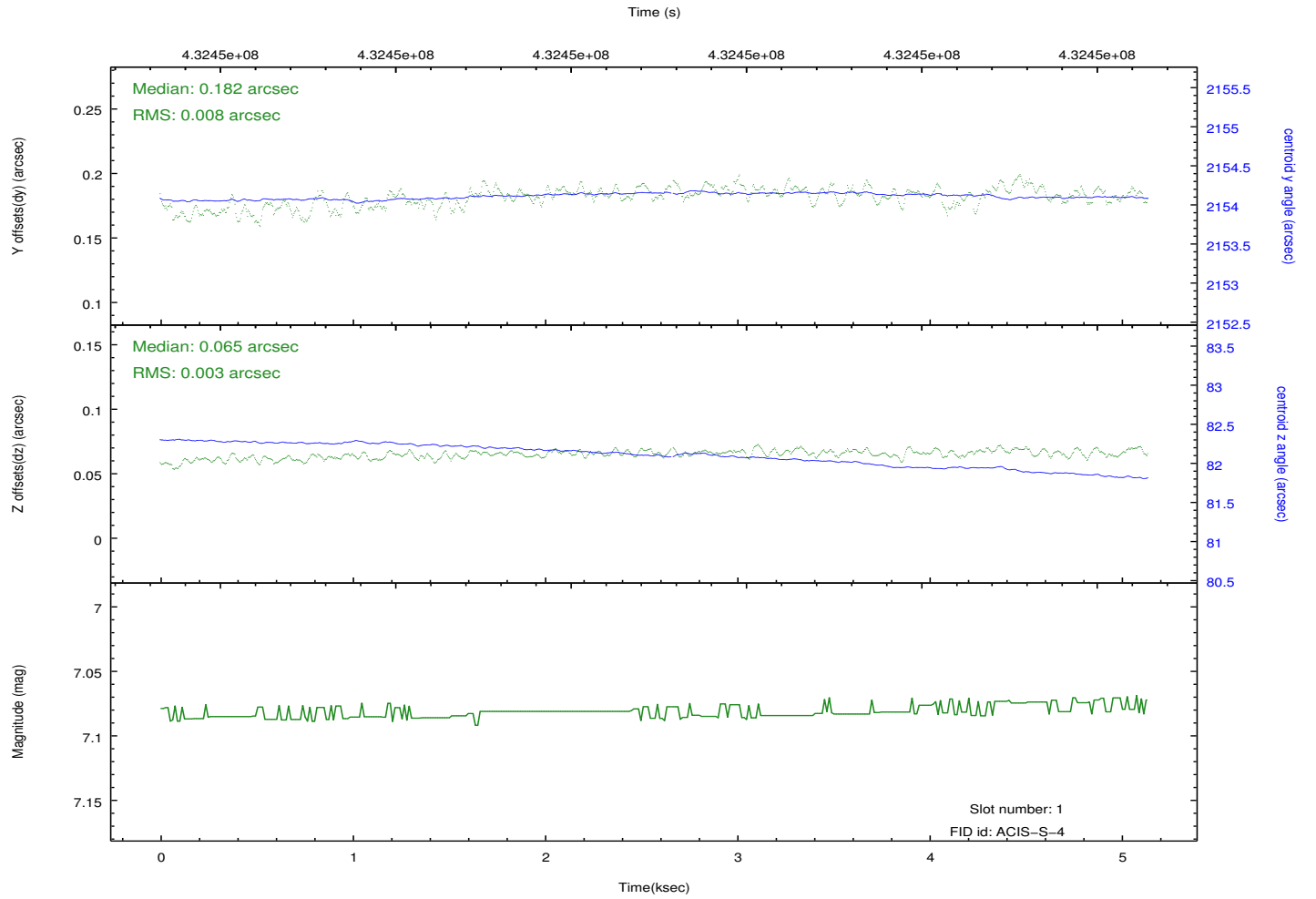
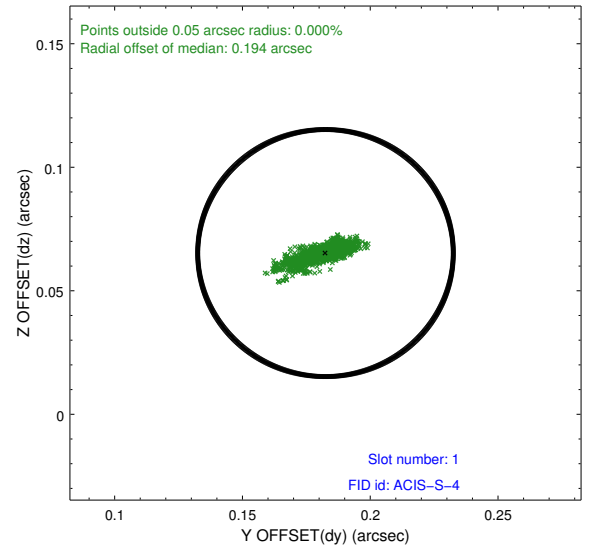
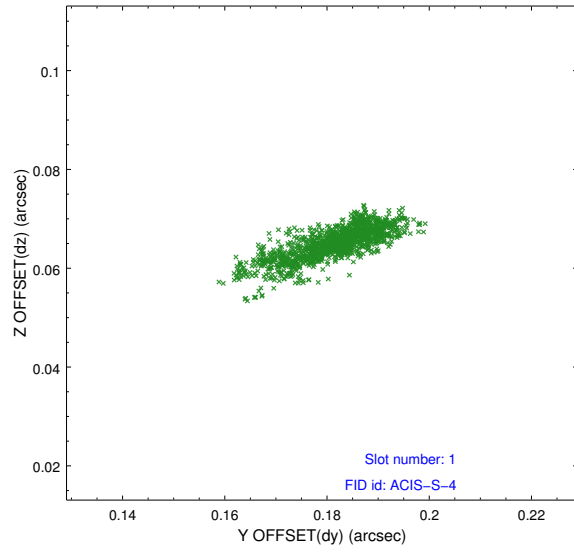


2.5 FID Slots

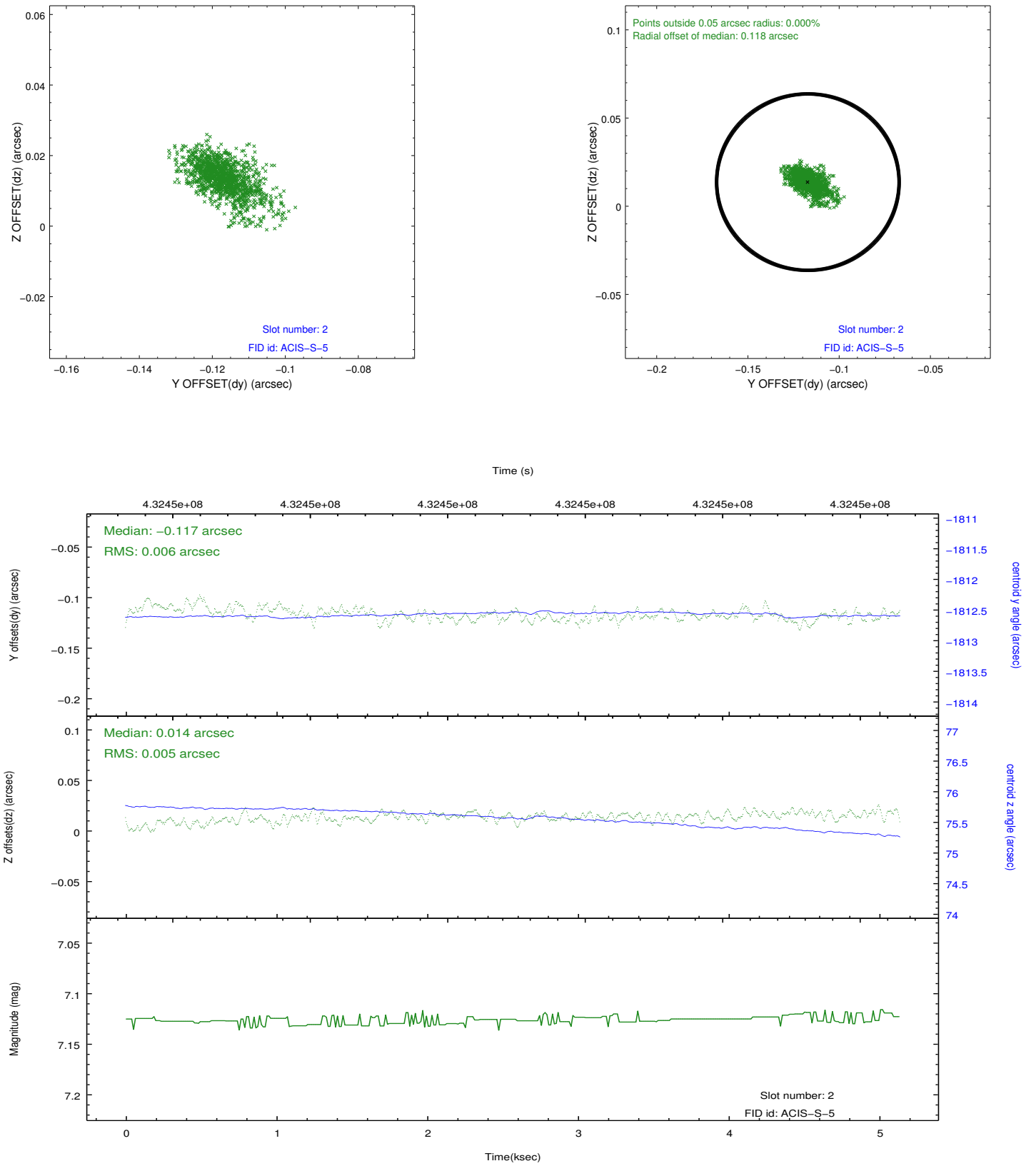
2.5.1 Slot 0



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)	2012.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5

A.2 Comments

Charge time is set to the scheduled time for this observation, although the ontime about 3375 s, which is significantly less due to telemetry saturation. In addition, livetime of the detector is about 588 s. Spacecraft dither is not enabled.