

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 771 - L2 Version 5
Chandra X-Ray Center

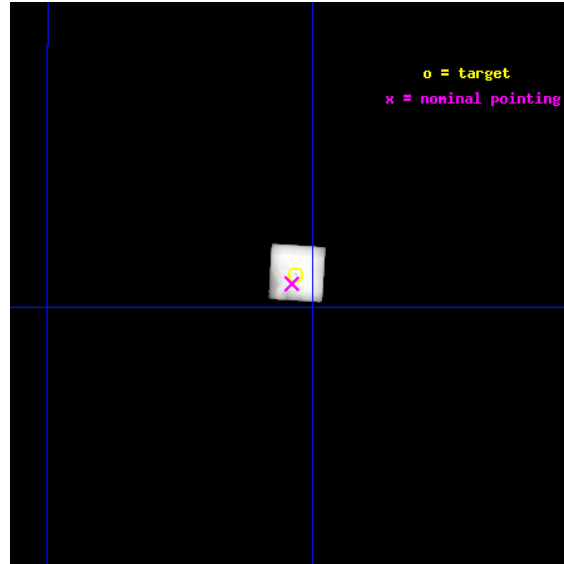
L2 Processing Date : Aug 23 2012

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1 Front

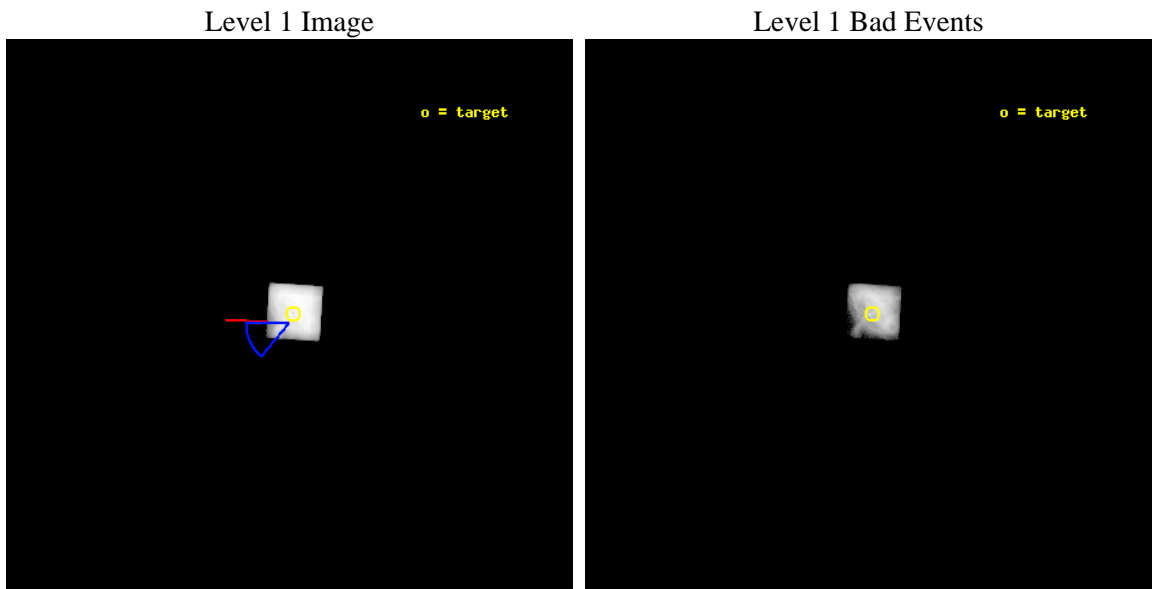
seq_num	500067	Sequence number
obs_id	771	Observation id
title	ACIS/HST OBSERVATIONS OF RELATIVISTIC WISPS IN THE CRAB NEBULA	Pro
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.632917	Observer's specified target RA [deg]
dec_targ	22.014472	Observer's specified target Dec [deg]
ra_nom	83.635030305787	Nominal RA [deg]
dec_nom	22.010232232415	Nominal Dec [deg]
roll_nom	273.64756680551	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1578.2128016651	Sum of GTIs [s]
livetime	1458.4991882902	Livetime [s]
ontime7	1578.2128016651	Sum of GTIs [s]
l2events	1730619	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	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1578.2128016651	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	1578.2128016651	Sum of GTIs [s]
date	2012-08-23T19:29:12	Date and time of file creation	l1events	2460230	Number of level 1 events
revision	5	Processing version of data			

2.1.3 Events

	ccd 7
level 1 events	2460230
rejected events	703920
rejected %	28%

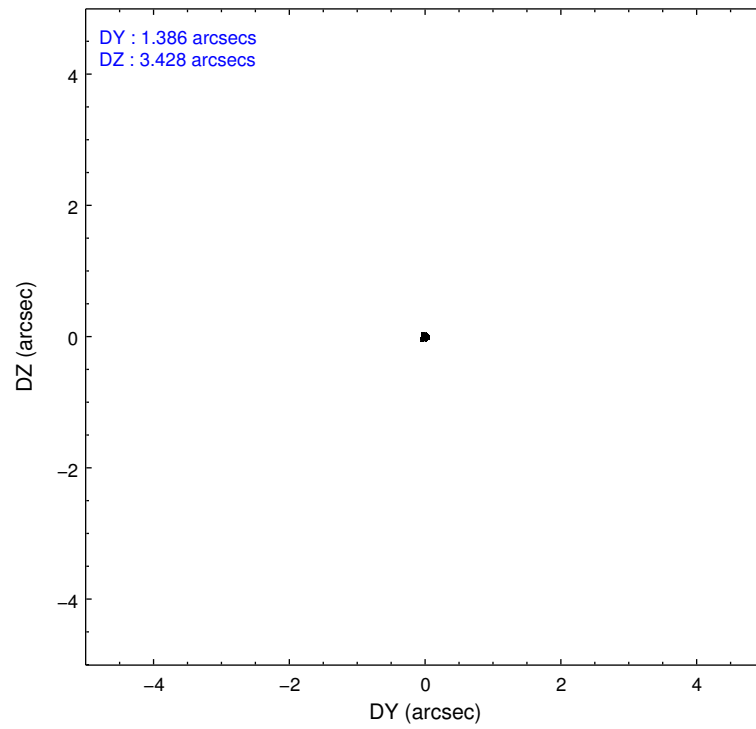
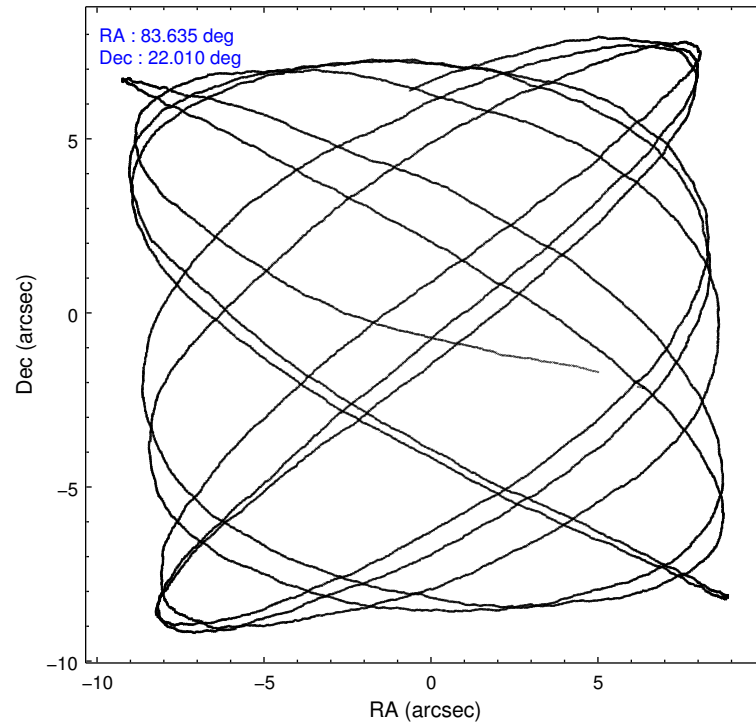
	ccd 7
grade 0 events	300826
	12%
grade 1 events	67293
	2%
grade 2 events	444390
	18%
grade 3 events	195373
	7%
grade 4 events	192727
	7%
grade 5 events	197219
	8%
grade 6 events	623609
	25%
grade 7 events	438793
	17%

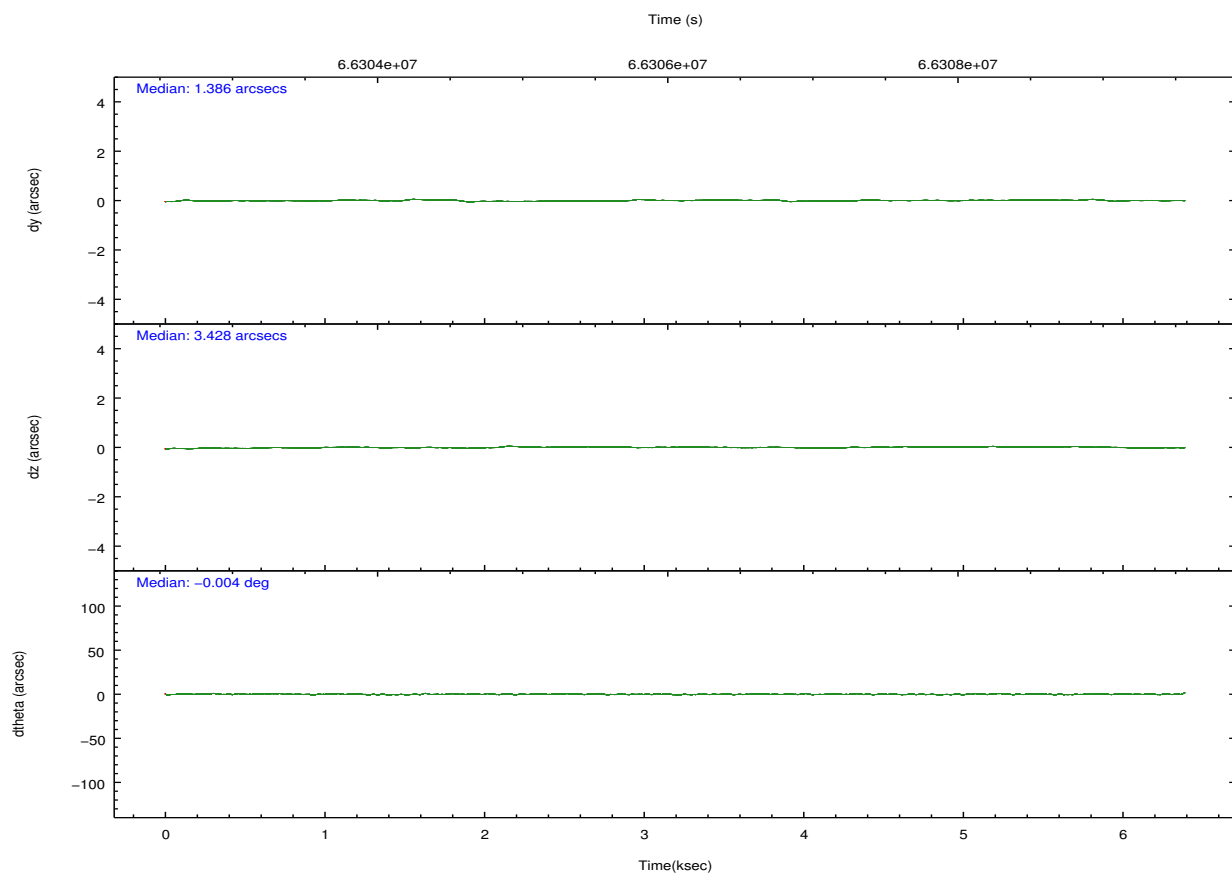
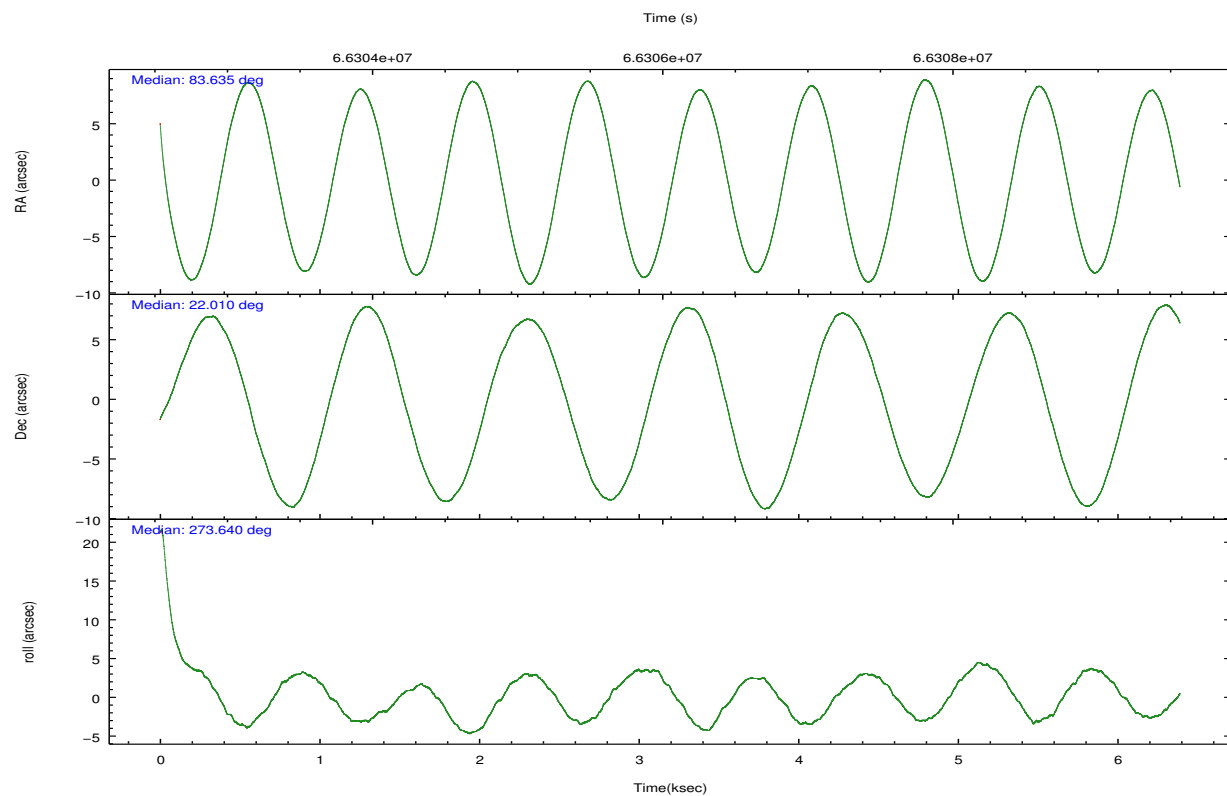
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	GRADED	GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	83.618561	83.6350303057872
[deg] Pointing Dec	22.033029	22.0102322324154
[deg] Pointing Roll	273.497075	273.64756680551
[deg] Roll angle	245.000000	245.000000
[deg] Roll tolerance	25.000000	25.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-179.132523	-179.1374222902453
[mm] SIM translation stage offset	-11	-10.99510029276249
[s] Observation start time (MET)	66303244.184000	66302596.615284
Observation start date	2000-02-07T09:33:00	2000-02-07T09:23:16
[s] Observation end time (MET)	66309244.184000	66309781.353045
Observation end date	2000-02-07T11:13:00	2000-02-07T11:23:01
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	CUSTOM
Subarray start row	11	11
Subarray row count	140	140
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

2.3 Aspect



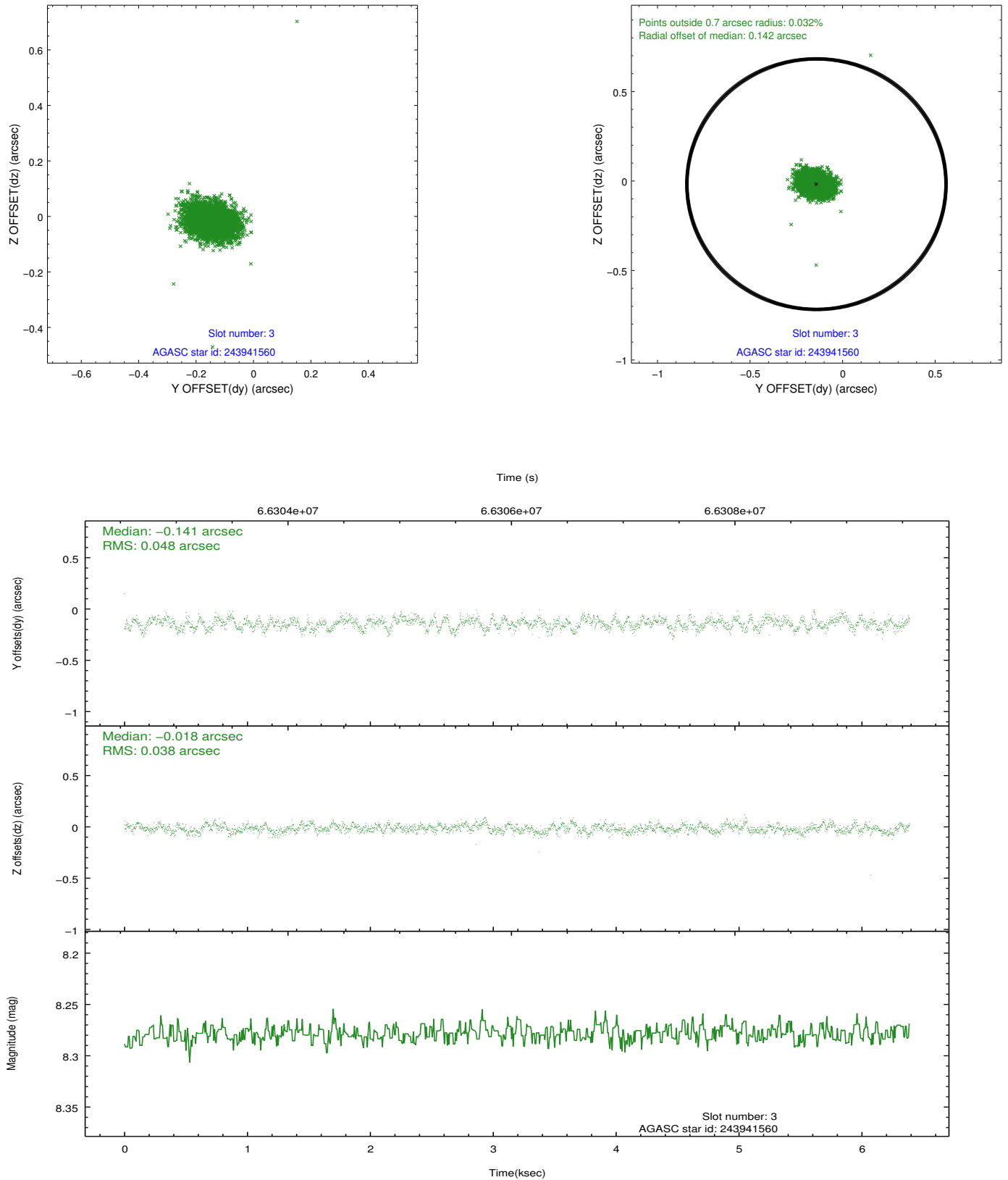


Slot Statistics

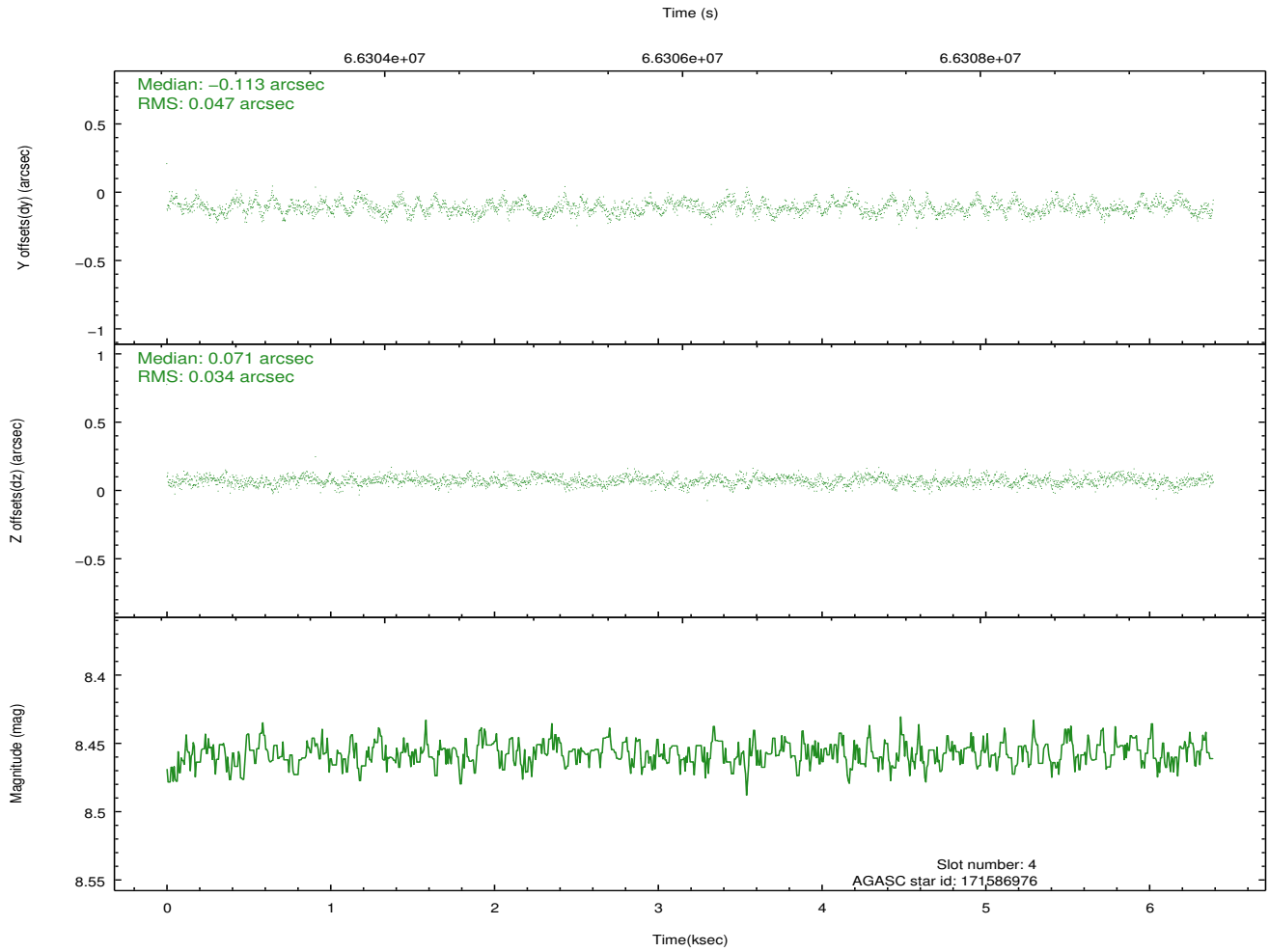
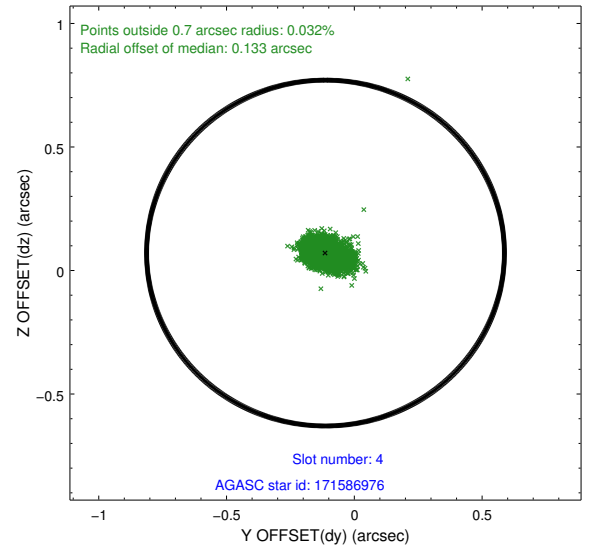
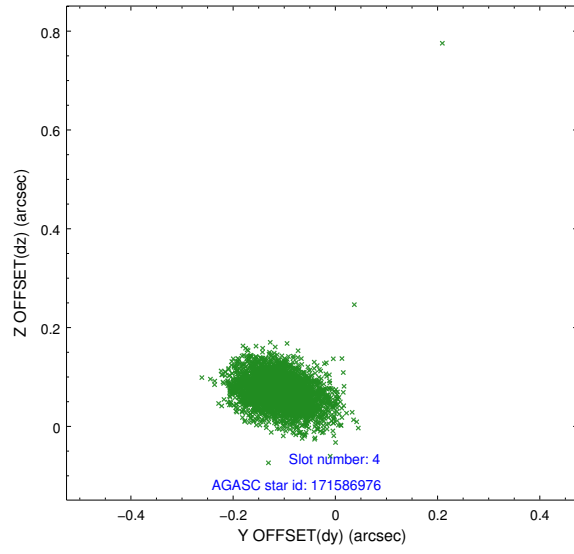
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1559	-0.088	-0.306	0.007	0.011	0.000000	0.000000	-753.25	-1951.16
1	FID	ACIS-S-4	7.17	1559	0.081	0.123	0.005	0.010	0.000000	0.000000	2159.77	-43.35
2	FID	ACIS-S-5	7.23	1559	-0.025	0.190	0.006	0.011	0.000000	0.000000	-1804.85	-48.58
3	GUIDE	243941560	8.28	3118	-0.141	-0.018	0.063	0.102	83.733264	22.568598	-1902.08	497.64
4	GUIDE	171586976	8.46	3117	-0.113	0.071	0.059	0.100	83.857953	22.438065	-1408.82	883.81
5	GUIDE	171597832	9.16	3117	0.150	-0.058	0.087	0.139	83.183230	21.366702	2302.65	-1602.84
6	GUIDE	171721904	9.21	3117	0.061	0.160	0.092	0.152	84.272676	22.116922	-173.09	2195.48
7	GUIDE	171598712	9.40	3116	0.045	-0.153	0.091	0.146	82.978369	21.681417	1128.15	-2214.25

2.4 Star Slots

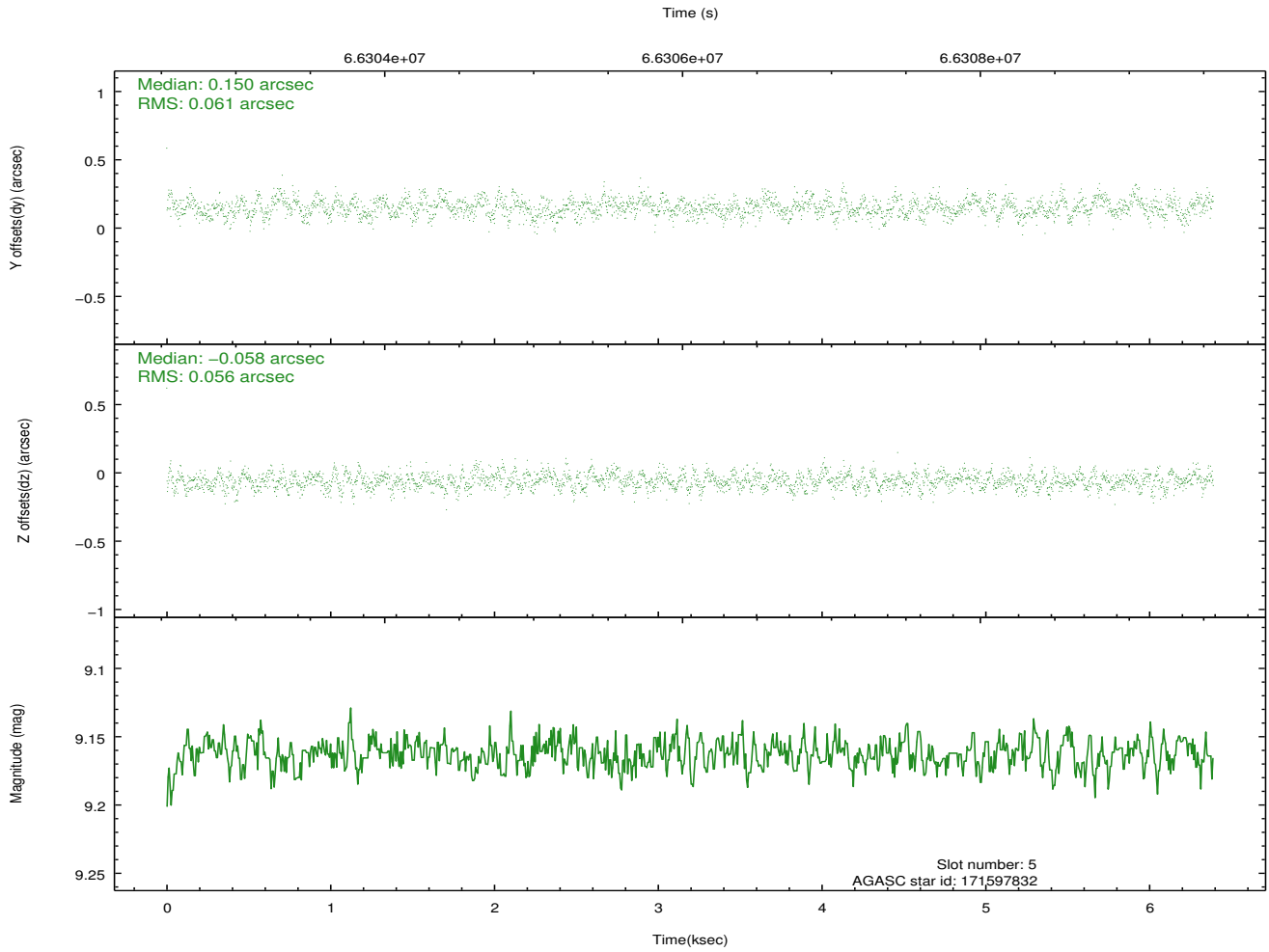
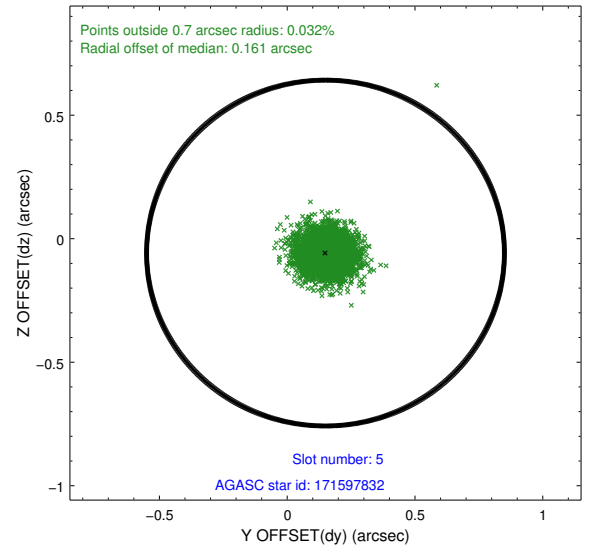
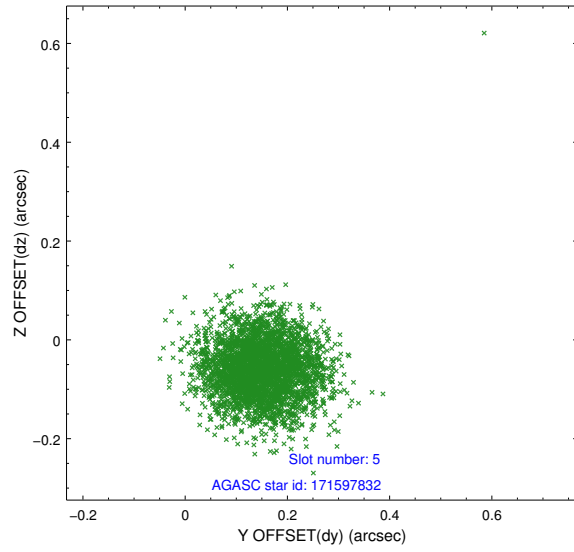
2.4.1 Slot 3



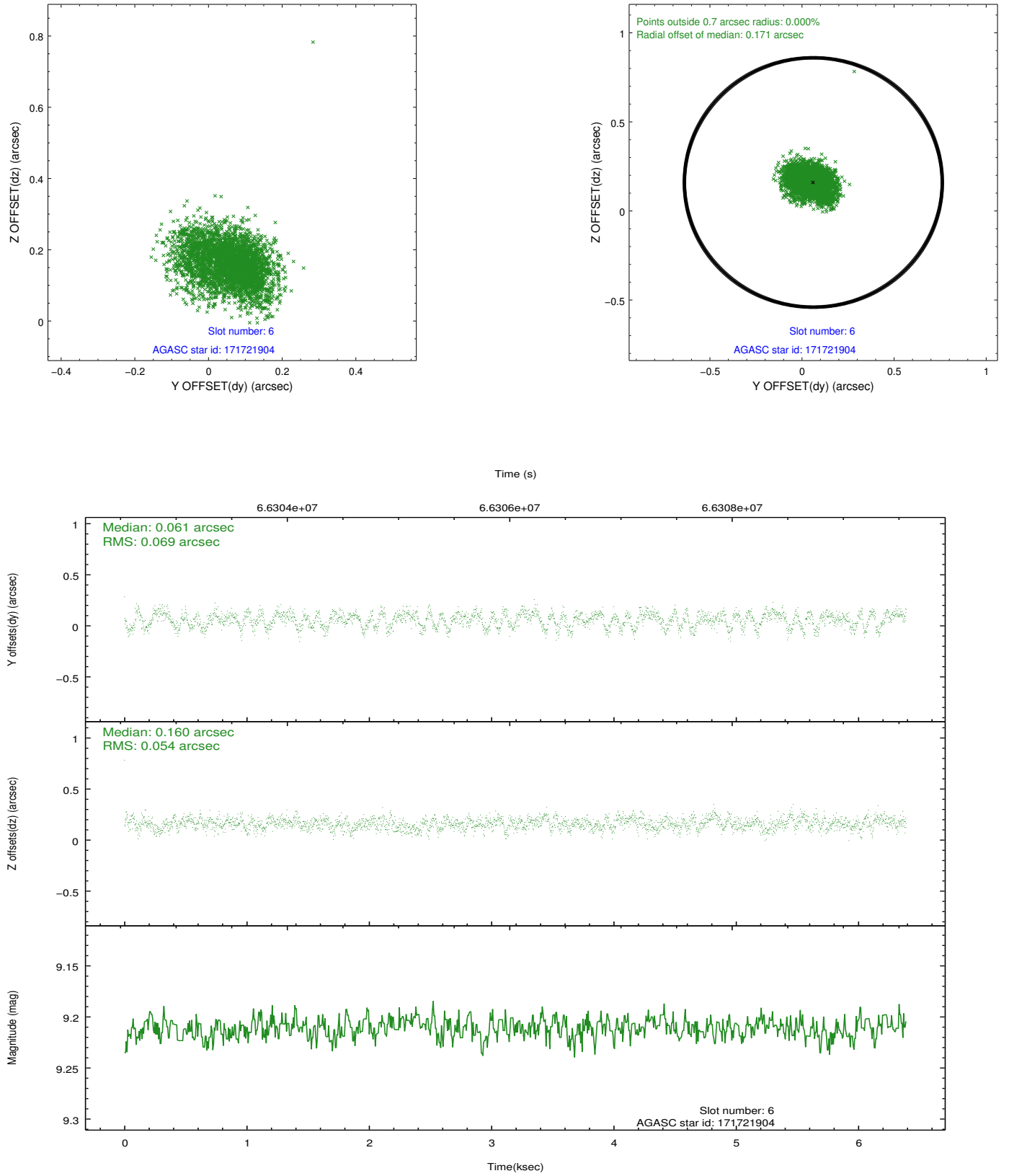
2.4.2 Slot 4



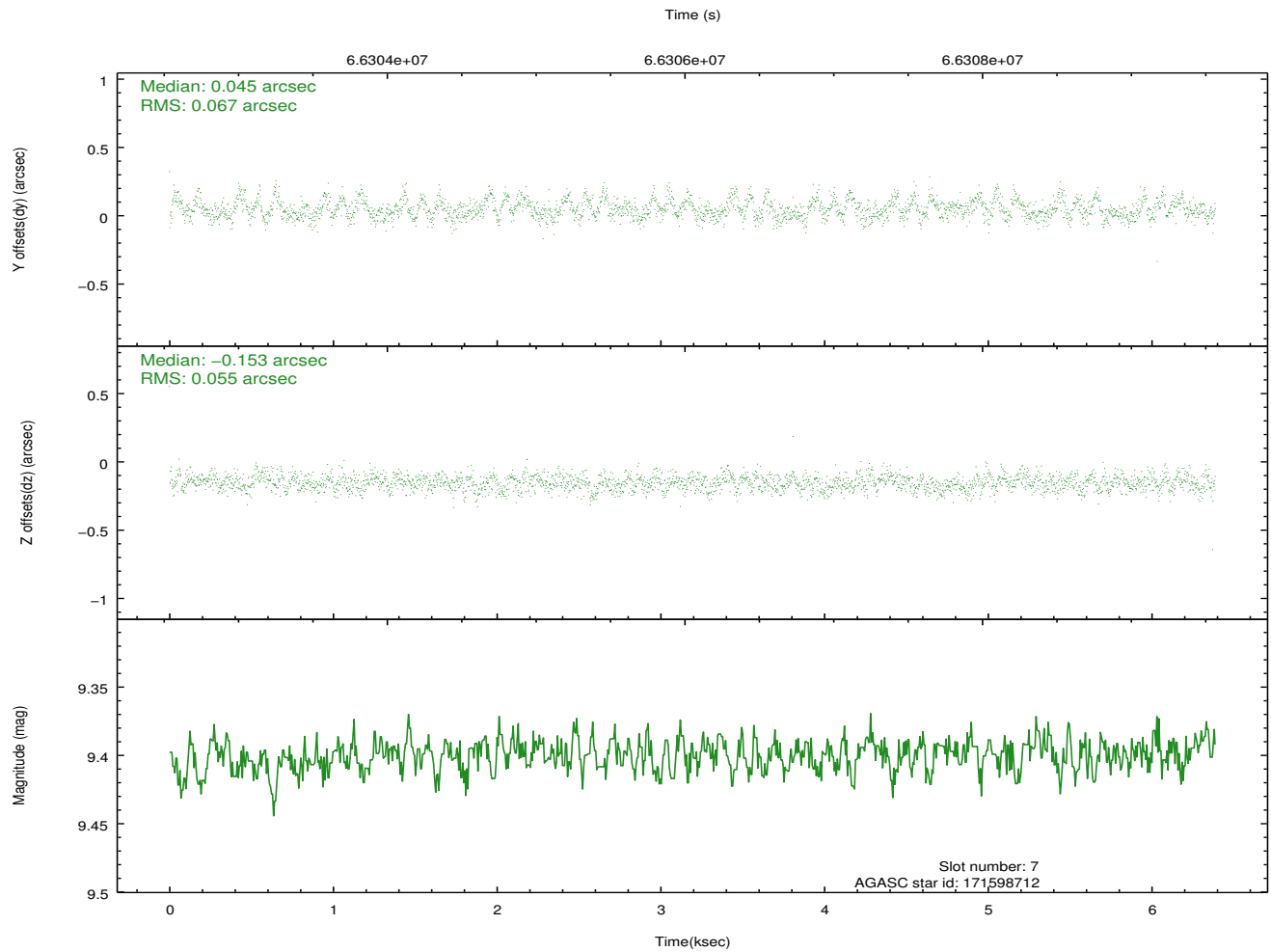
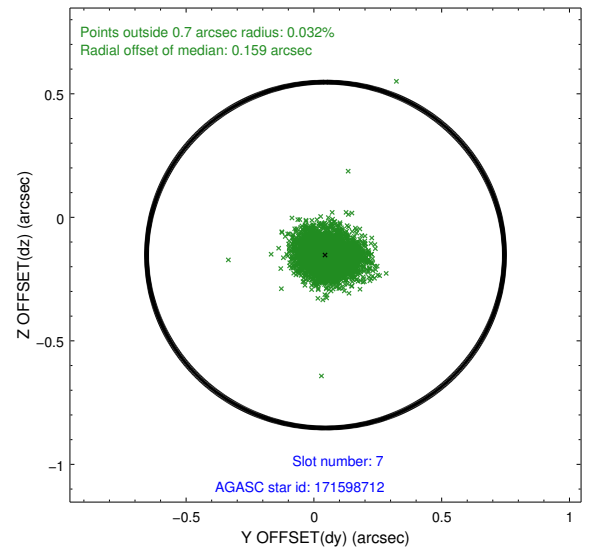
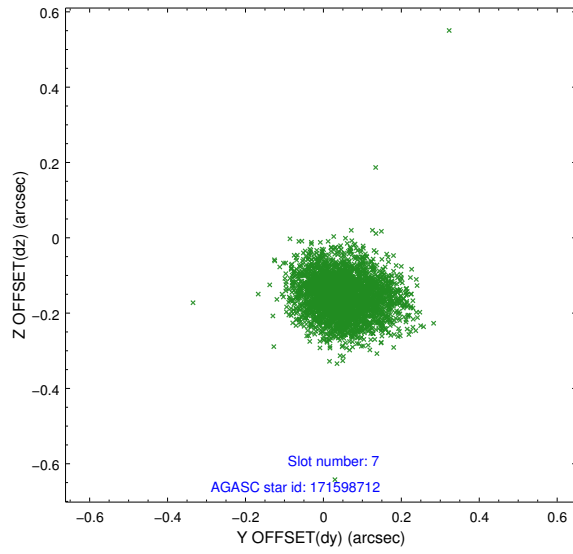
2.4.3 Slot 5



2.4.4 Slot 6

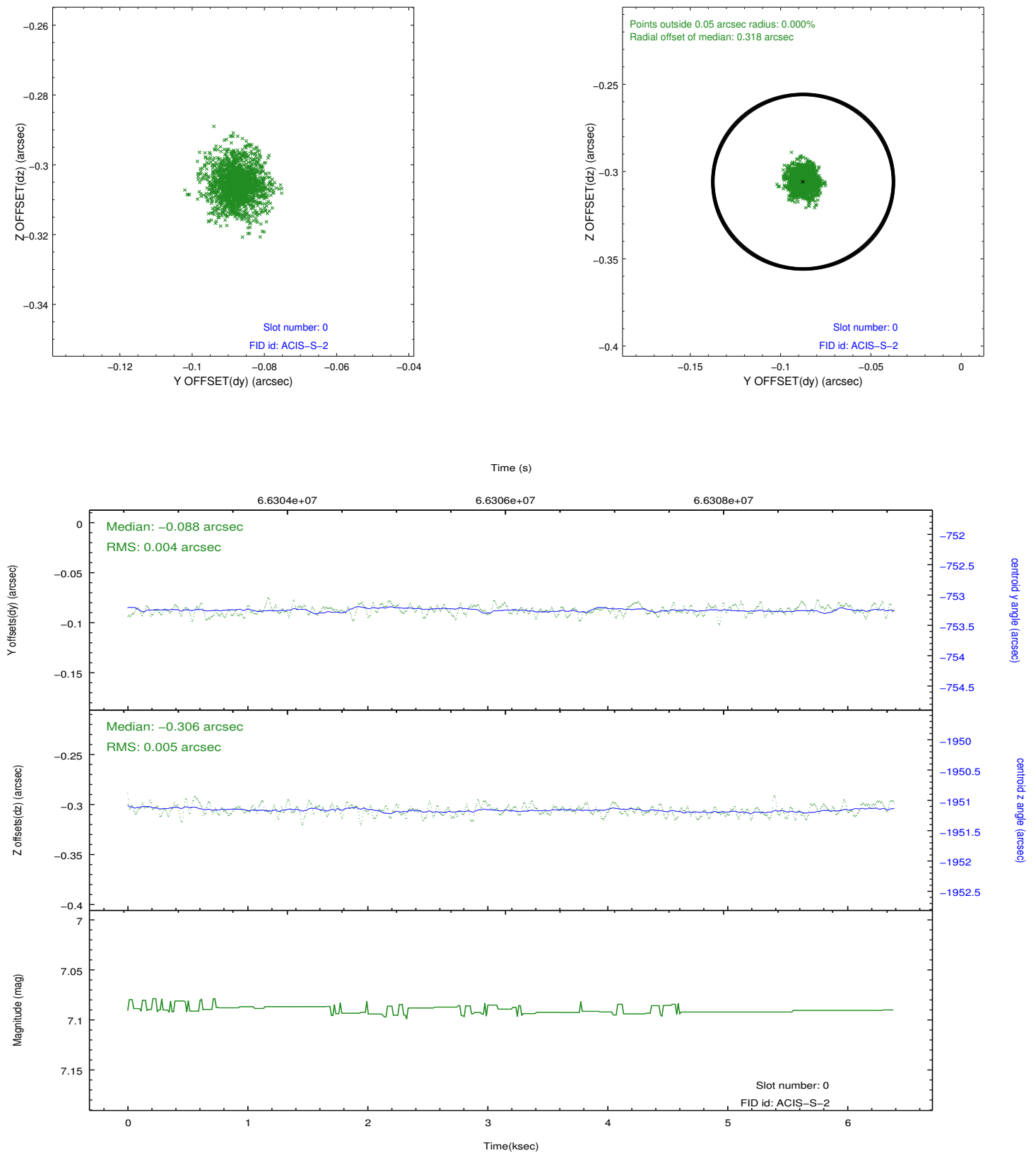


2.4.5 Slot 7

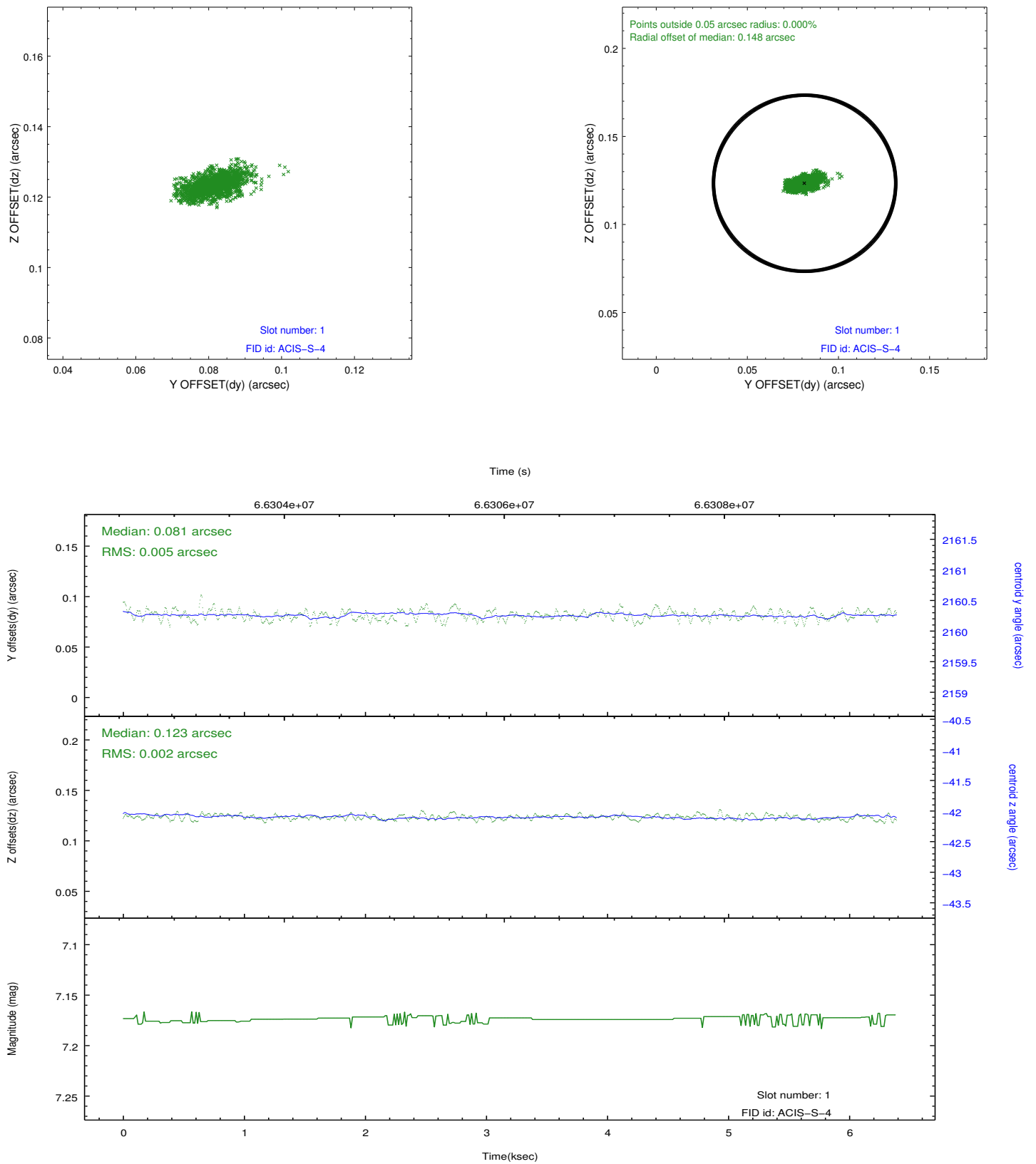


2.5 FID Slots

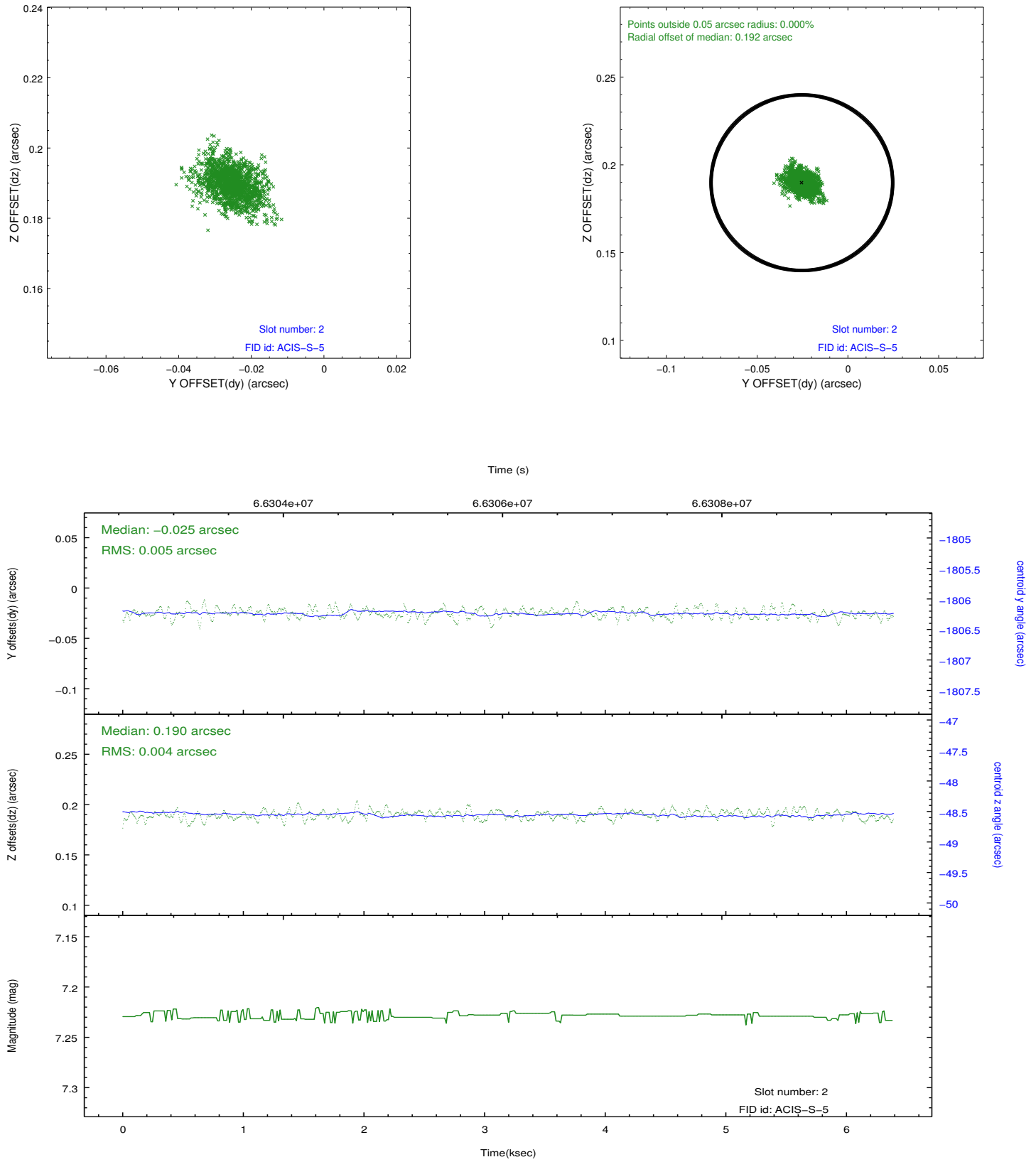
2.5.1 Slot 0



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)	2012.08.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.908

A.2 Comments

ONTIME of 1578.213 seconds is less than 85% of expected scheduled time of 6000 seconds. Charge time is set to the previous value of 1.908 ksec for this observation, although the ontime is 1.578 ksec, due to telemetry saturation.

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Coordinated with HST.