

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4674 - L2 Version 3
Chandra X-Ray Center

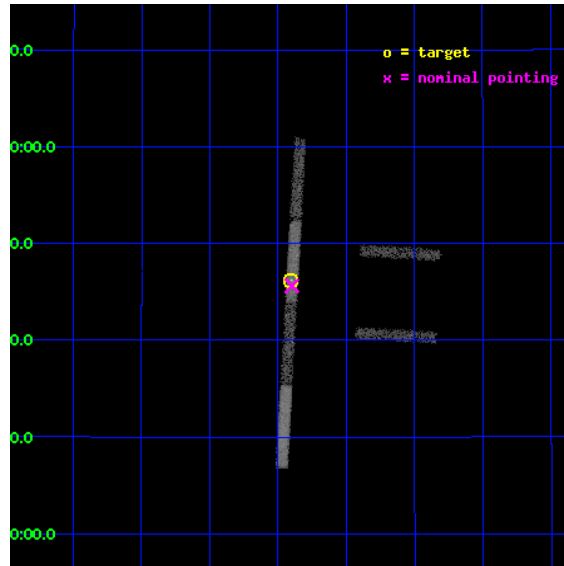
L2 Processing Date : Nov 11 2012

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1 Front

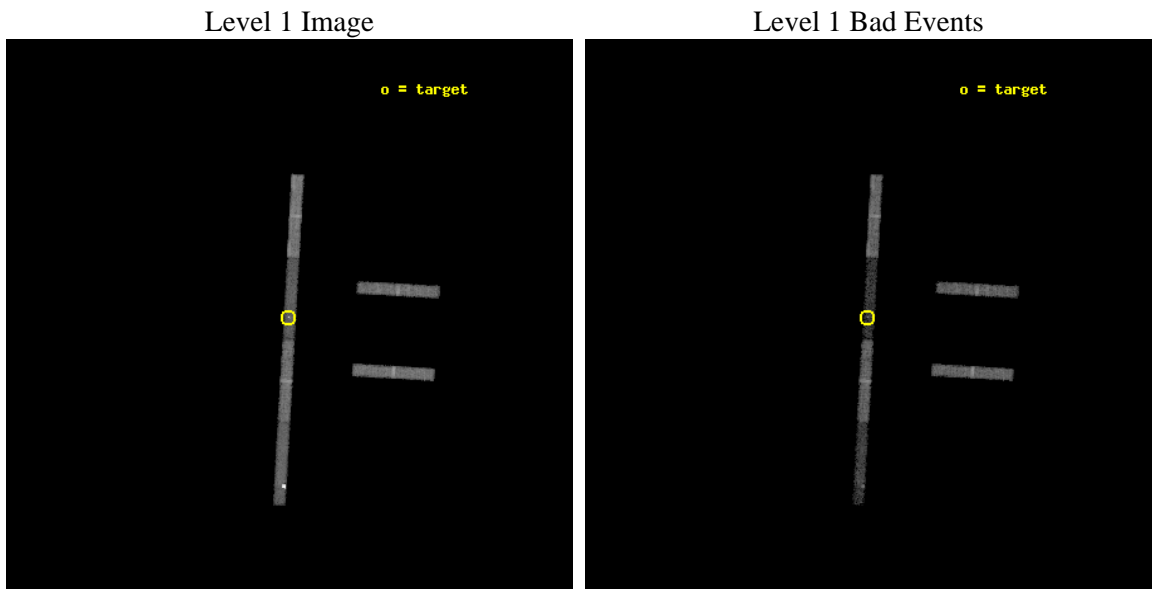
seq_num	500493	Sequence number
obs_id	4674	Observation id
title	The Geminga Pulsar and its Pulsar Wind Nebula	Proposal title
observer	Dr. Divas Sanwal	Principal investigator
object	Geminga	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.475833	Observer's specified target RA [deg]
dec_targ	17.77	Observer's specified target Dec [deg]
ra_nom	98.474642371033	Nominal RA [deg]
dec_nom	17.760403310043	Nominal Dec [deg]
roll_nom	273.26246685727	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19898.199661136	Sum of GTIs [s]
livetime	18796.205012948	Livetime [s]
ontime2	19898.199661136	Sum of GTIs [s]
ontime3	19898.199661136	Sum of GTIs [s]
ontime5	19898.199661136	Sum of GTIs [s]
ontime6	19898.199661136	Sum of GTIs [s]
ontime7	19898.199661136	Sum of GTIs [s]
ontime8	19897.458621144	Sum of GTIs [s]
l2events	14772	Number of level 2 events



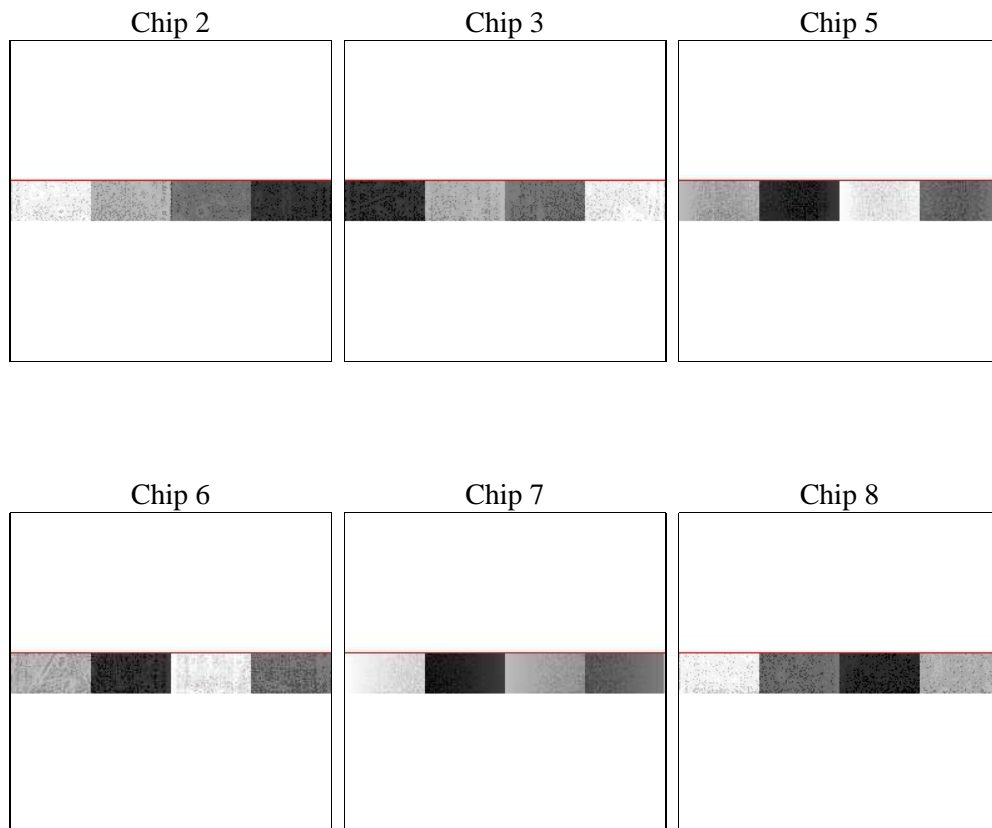
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19738.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19898.199661136	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	19898.199661136	Sum of GTIs [s]
date	2012-11-11T16:58:51	Date and time of file creation	ontime3	19898.199661136	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	19898.199661136	Sum of GTIs [s]
			ontime6	19898.199661136	Sum of GTIs [s]
			ontime7	19898.199661136	Sum of GTIs [s]
			ontime8	19897.458621144	Sum of GTIs [s]
			l1events	120903	Number of level 1 events

2.1.4 Events

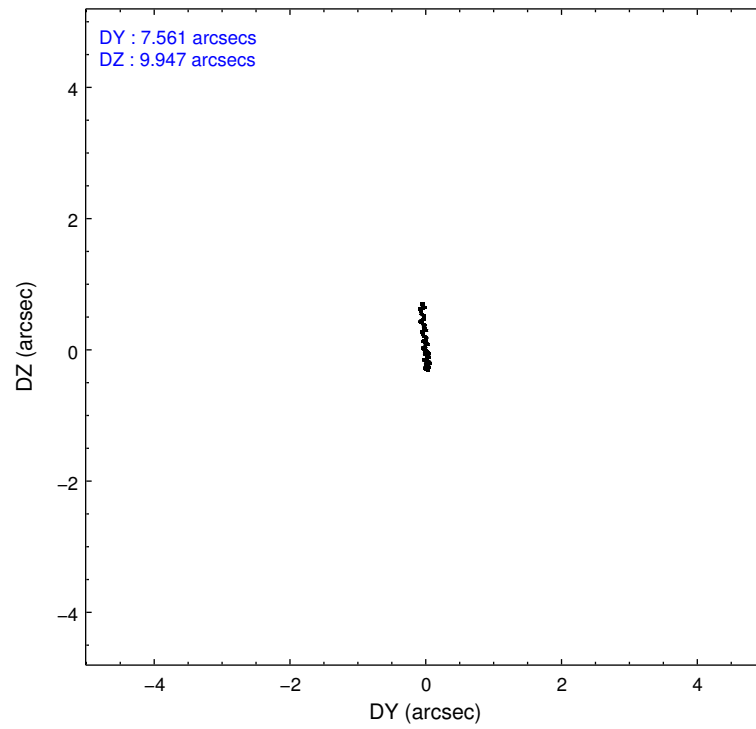
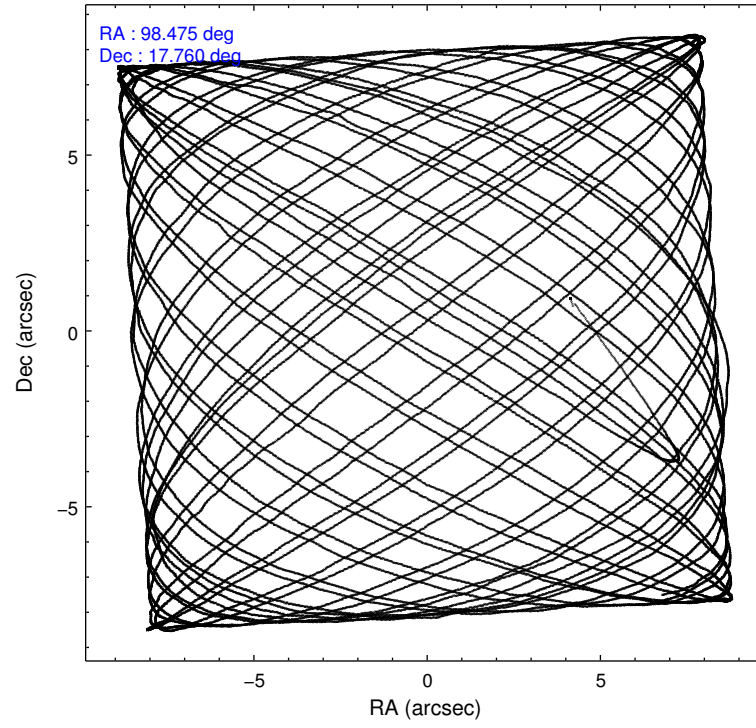
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18872	16142	36442	16671	9290	23486
rejected events	17521	14907	5767	15220	3826	19705
rejected %	92%	92%	15%	91%	41%	83%

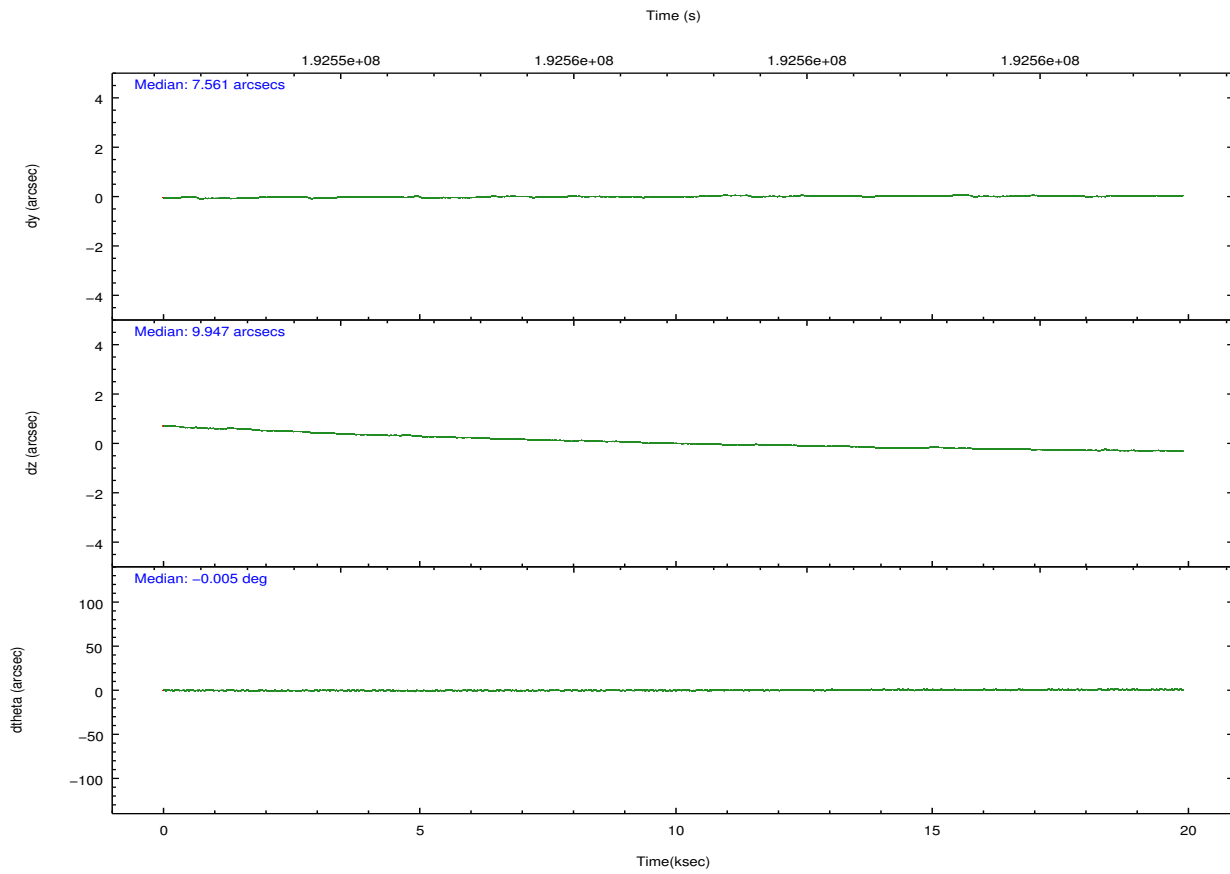
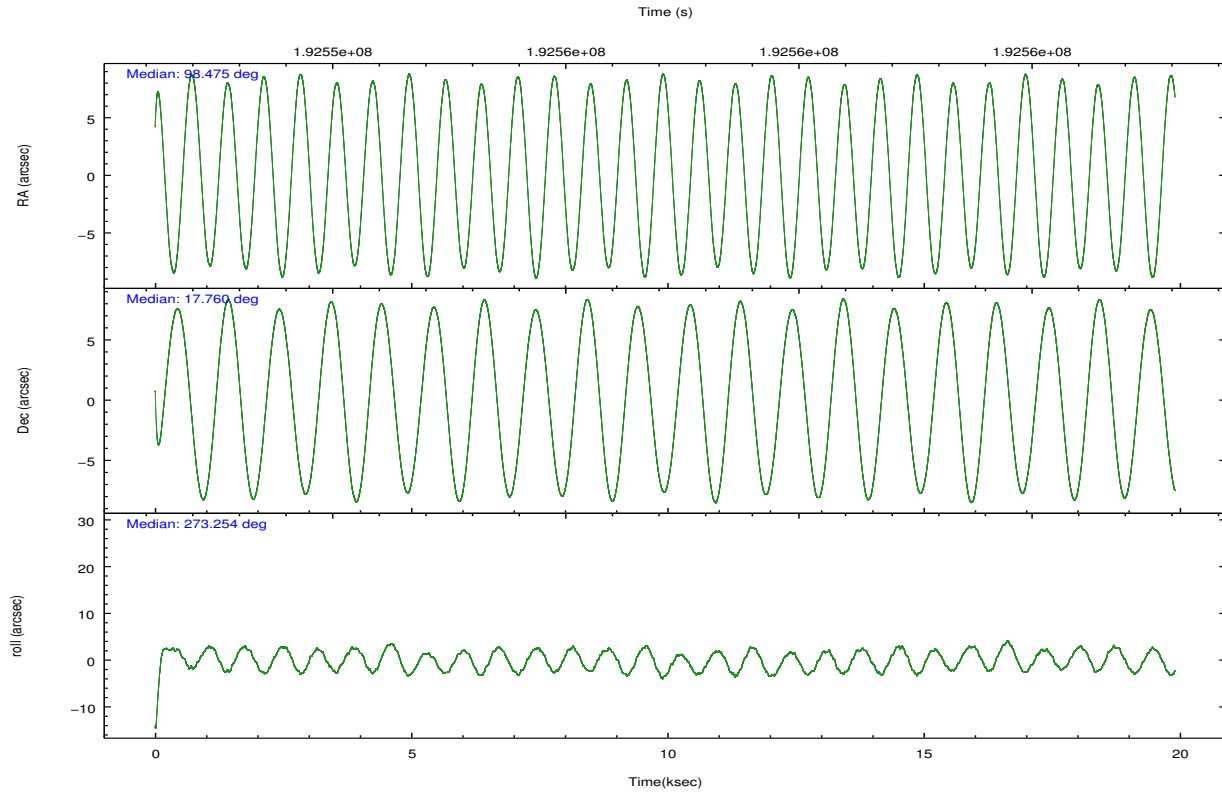
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	382	356	17513	446	1047	520
	2%	2%	48%	2%	11%	2%
grade 1 events	3	1	145	6	24	3
	0%	0%	0%	0%	0%	0%
grade 2 events	255	199	8856	228	1330	827
	1%	1%	24%	1%	14%	3%
grade 3 events	289	285	459	308	647	479
	1%	1%	1%	1%	6%	2%
grade 4 events	298	266	1592	331	578	441
	1%	1%	4%	1%	6%	1%
grade 5 events	242	248	1065	257	923	451
	1%	1%	2%	1%	9%	1%
grade 6 events	181	167	3410	198	2032	1630
	0%	1%	9%	1%	21%	6%
grade 7 events	17222	14620	3402	14897	2709	19135
	91%	90%	9%	89%	29%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	98.458618	98.47464237103264	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	17.782967	17.76040331004254	Subarray start row	449	449
[deg] Pointing Roll	273.110735	273.2624668572669	Subarray row count	128	128
[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	0.7
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	192547340.184000	192546183.48942			
Observation start date	2004-02-07T13:21:16	2004-02-07T13:03:03			
[s] Observation end time (MET)	192567078.184000	192568816.00291			
Observation end date	2004-02-07T18:50:14	2004-02-07T19:20:16			
Read mode	TIMED	TIMED			

2.3 Aspect



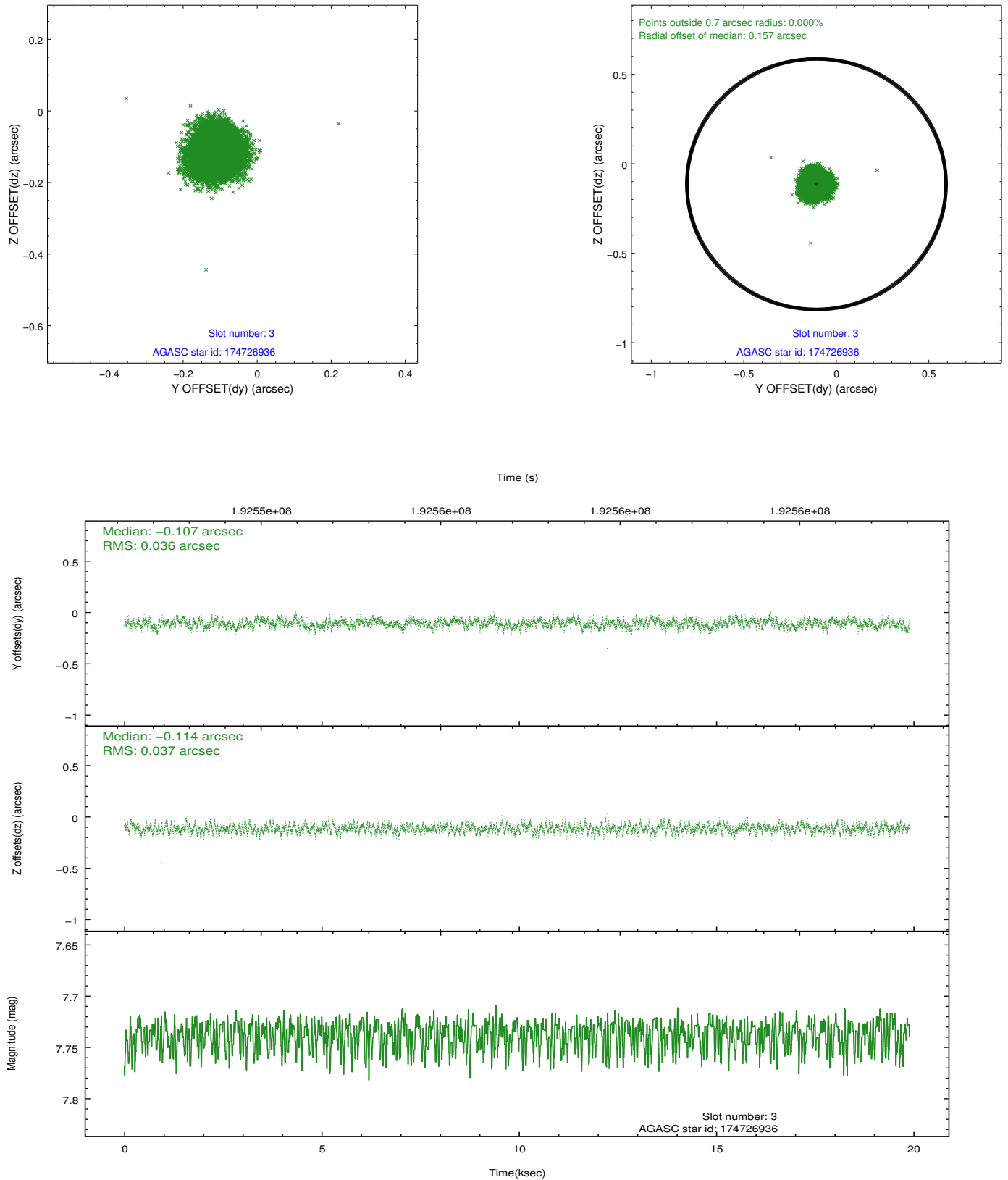


Slot Statistics

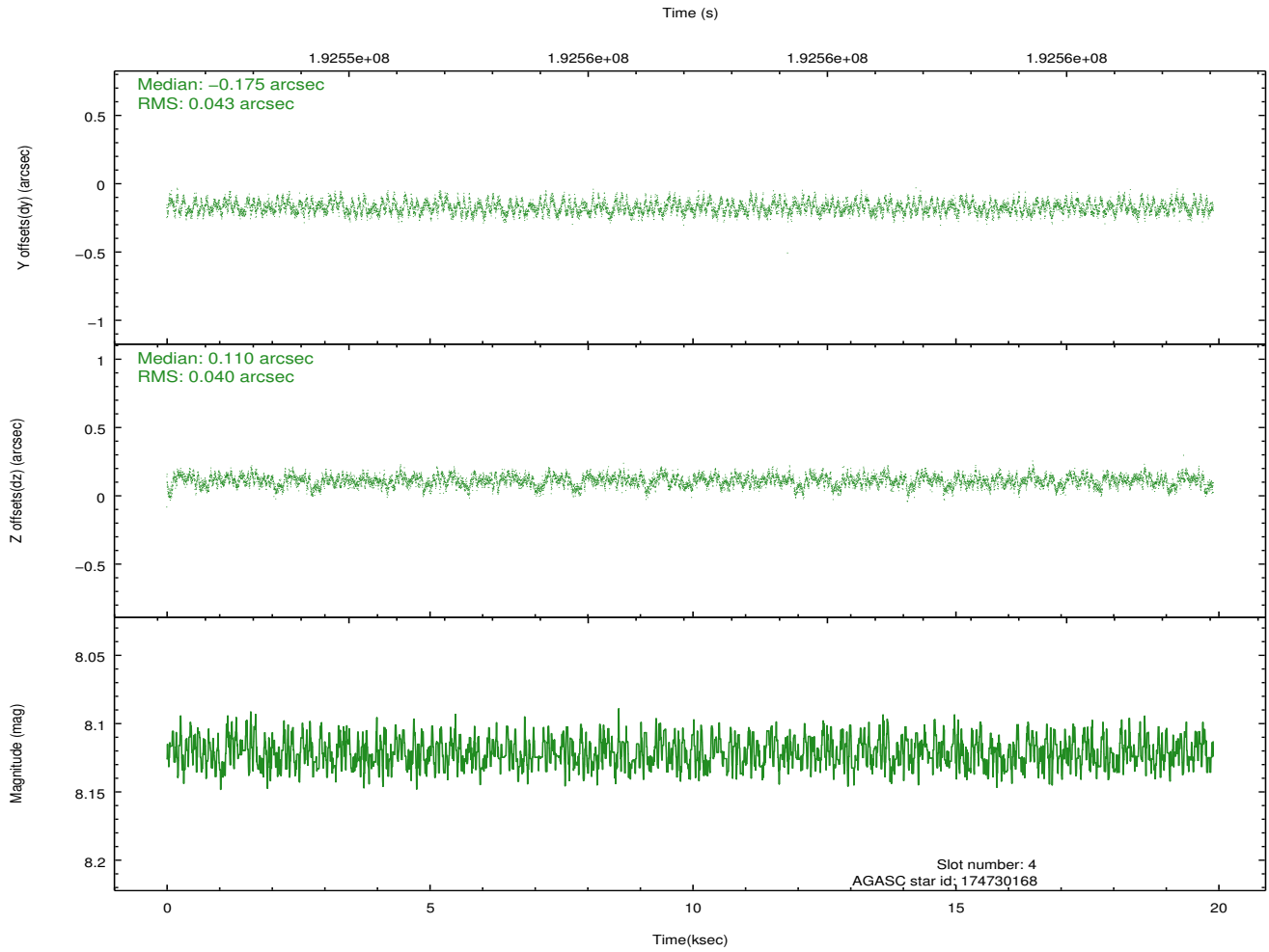
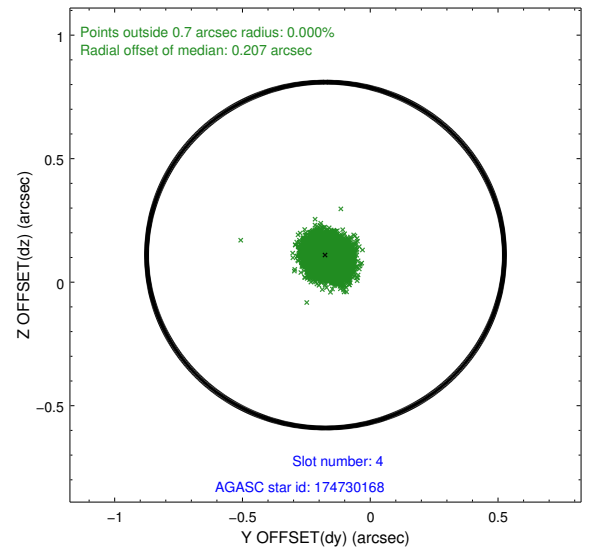
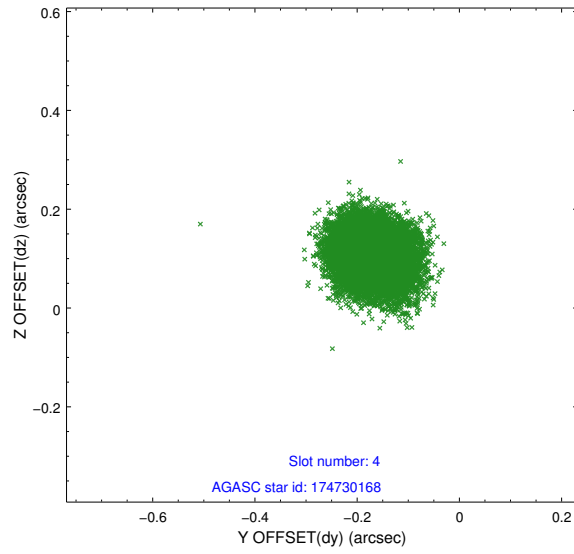
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	4854	-0.038	-0.020	0.010	0.015	0.000000	0.000000	-760.32	-1731.25
1	FID	ACIS-S-4	7.20	4854	0.075	0.023	0.006	0.011	0.000000	0.000000	2152.94	177.14
2	FID	ACIS-S-5	7.24	4854	-0.068	0.005	0.009	0.016	0.000000	0.000000	-1812.99	170.93
3	GUIDE	174726936	7.74	9708	-0.107	-0.114	0.055	0.086	98.009571	17.665063	338.89	-1561.02
4	GUIDE	174730168	8.12	9707	-0.175	0.110	0.064	0.100	98.803227	18.065078	-950.64	1232.87
5	GUIDE	174731792	7.94	9706	0.091	0.128	0.051	0.084	98.964622	17.200033	2187.73	1624.46
6	GUIDE	174591824	8.23	9706	0.165	-0.127	0.077	0.125	97.924040	17.082315	2417.24	-1973.36
7	GUIDE	174731032	8.87	9704	0.025	0.002	0.075	0.120	99.169475	17.388789	1545.16	2361.84

2.4 Star Slots

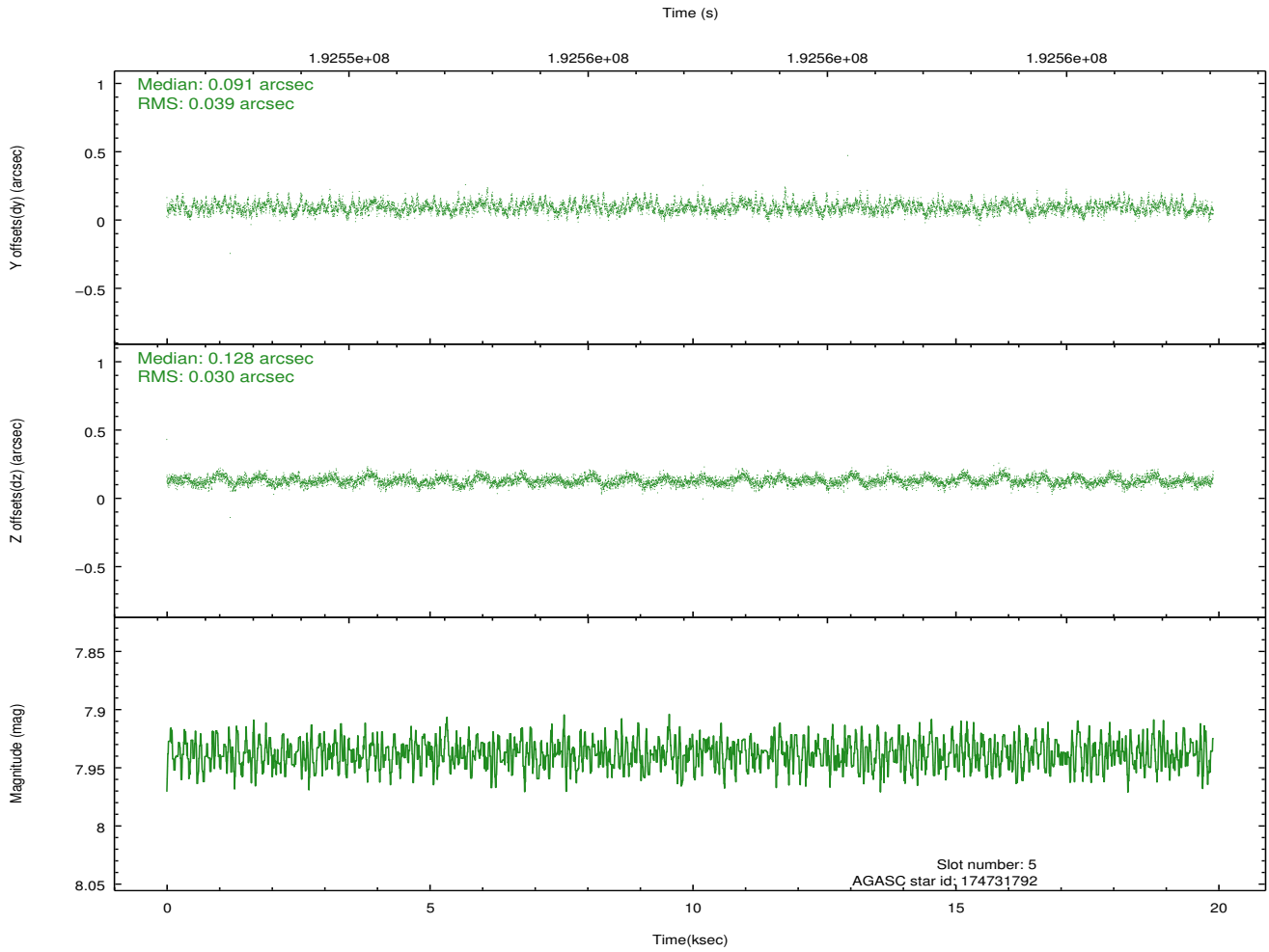
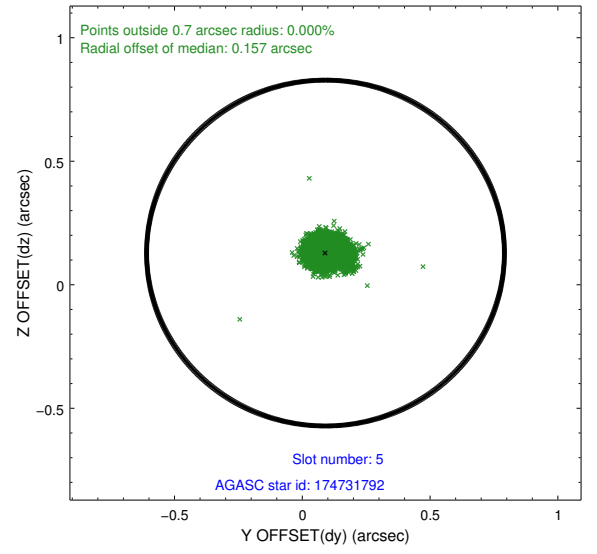
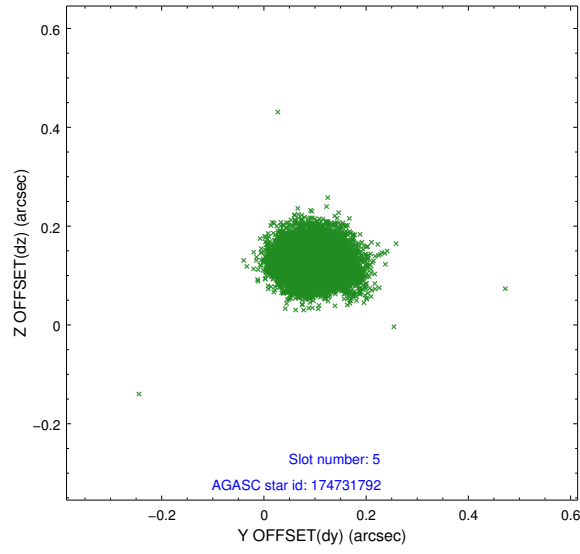
2.4.1 Slot 3



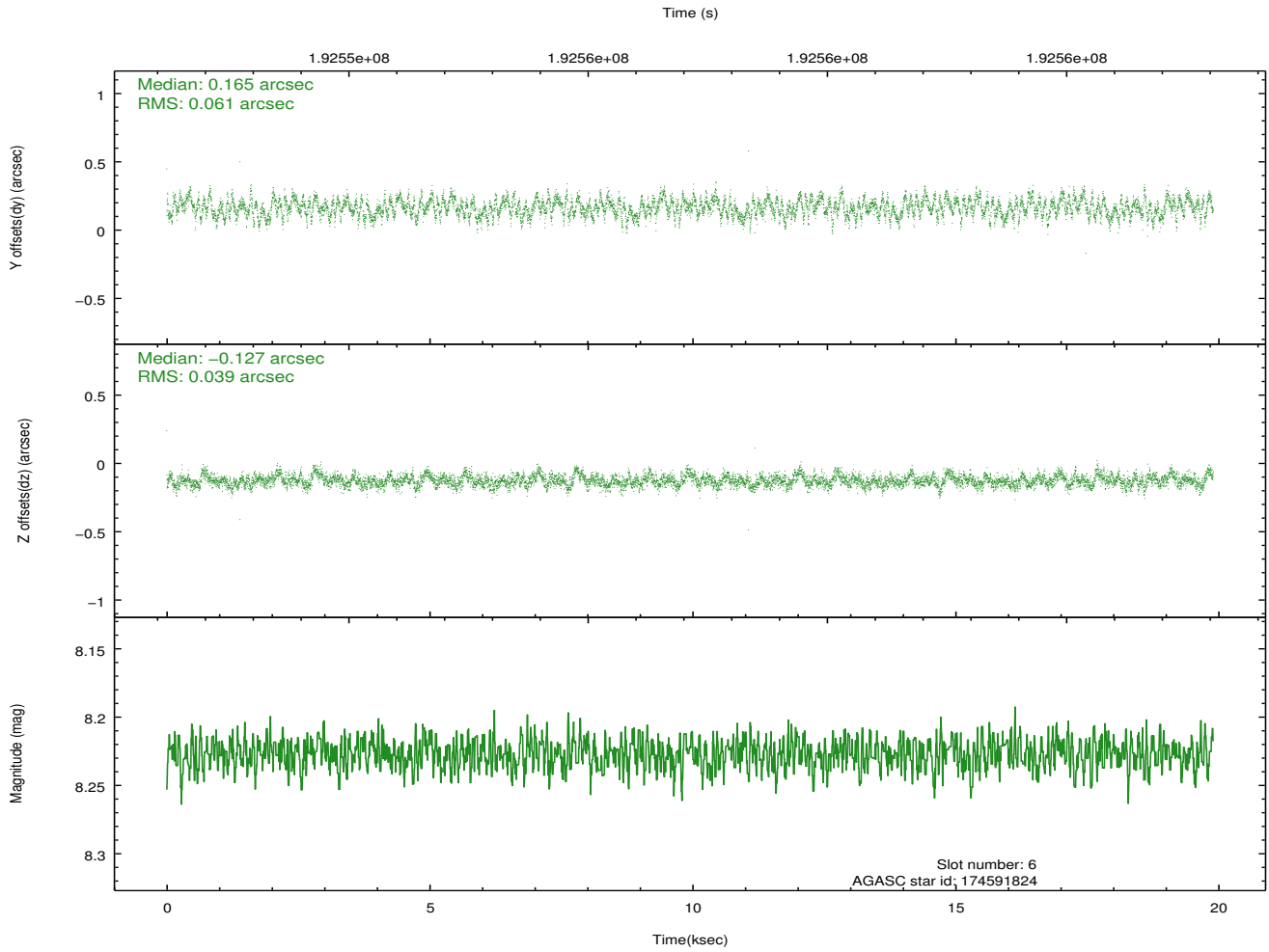
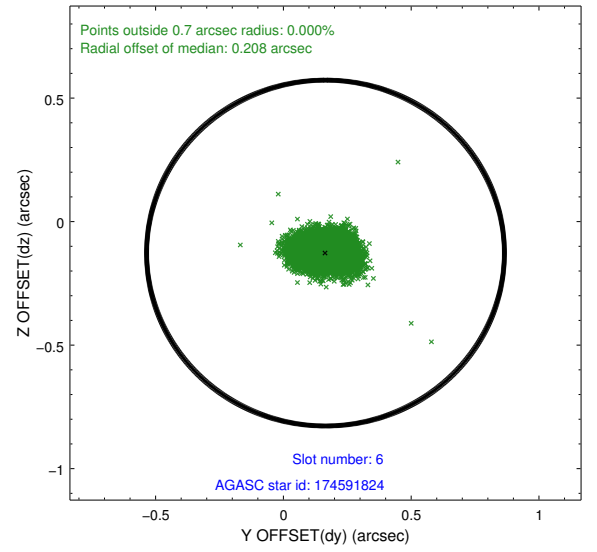
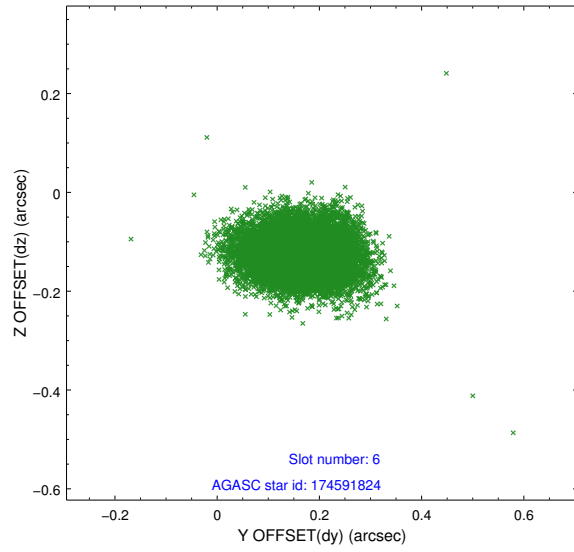
2.4.2 Slot 4



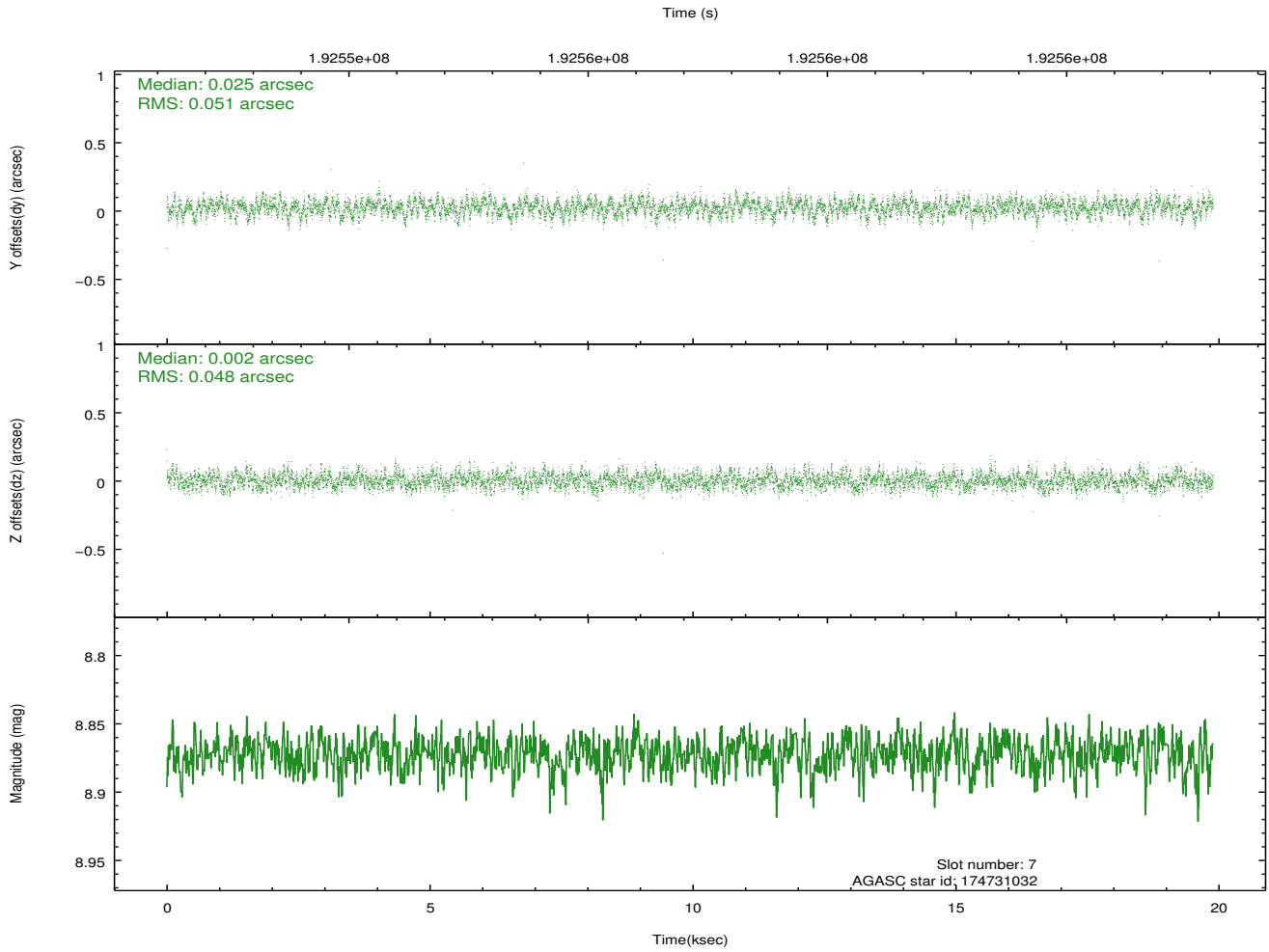
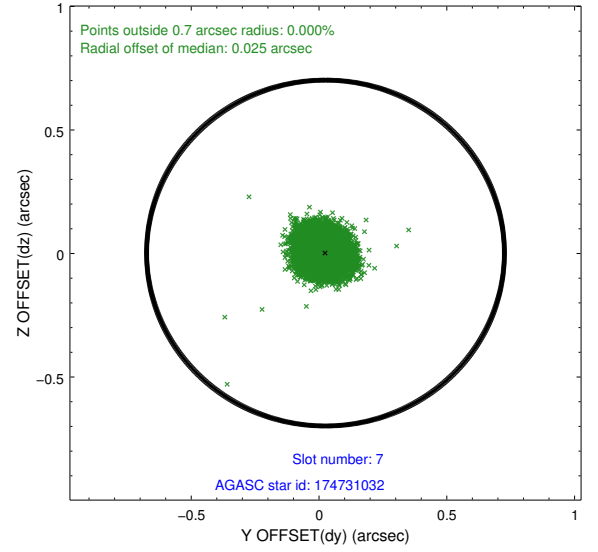
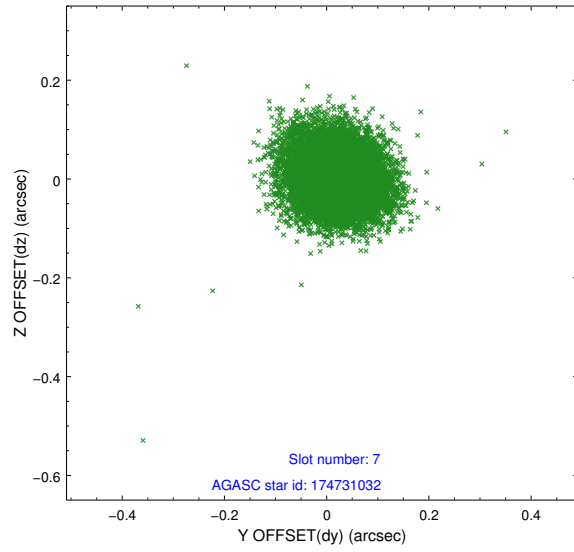
2.4.3 Slot 5



2.4.4 Slot 6

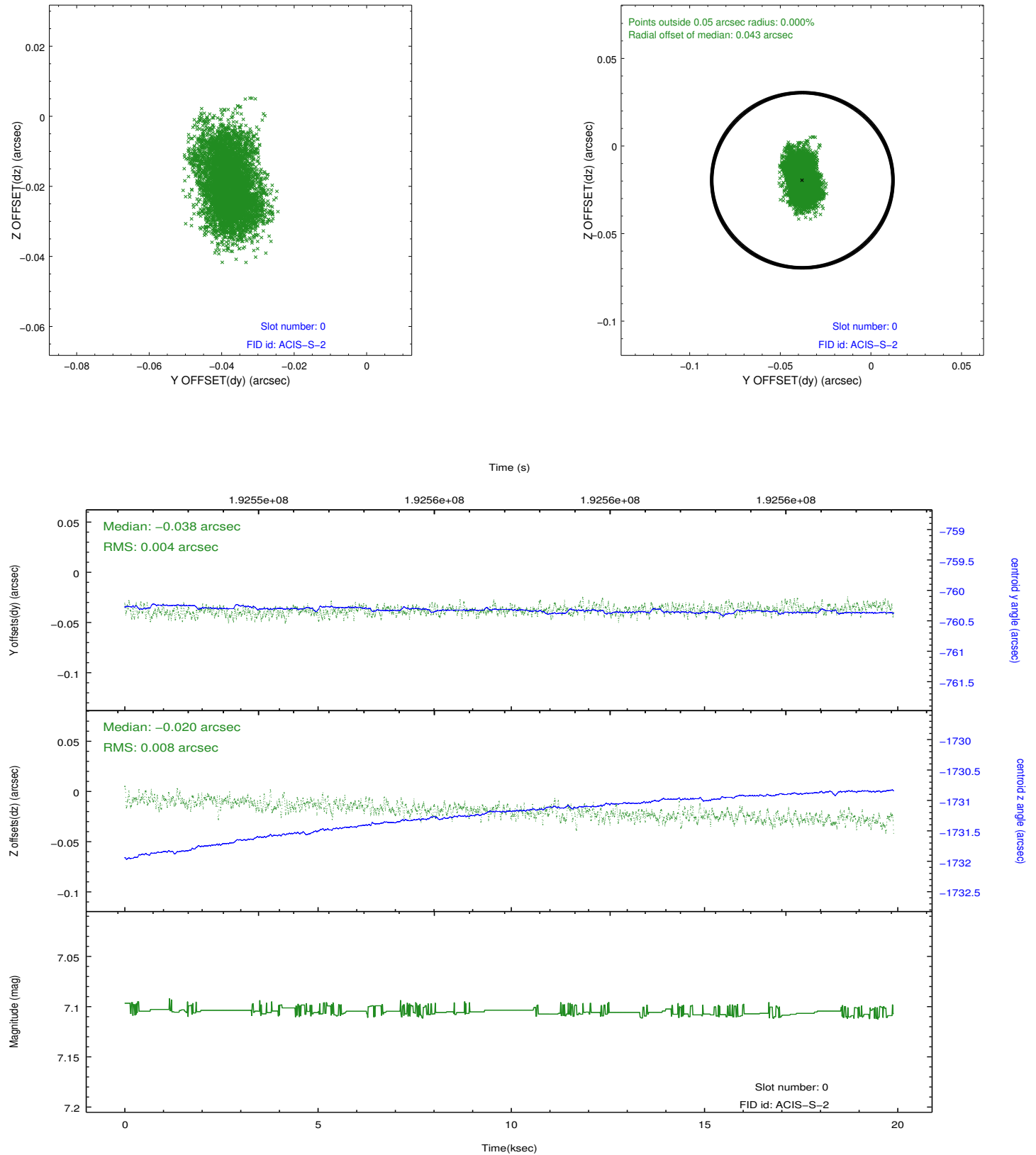


2.4.5 Slot 7

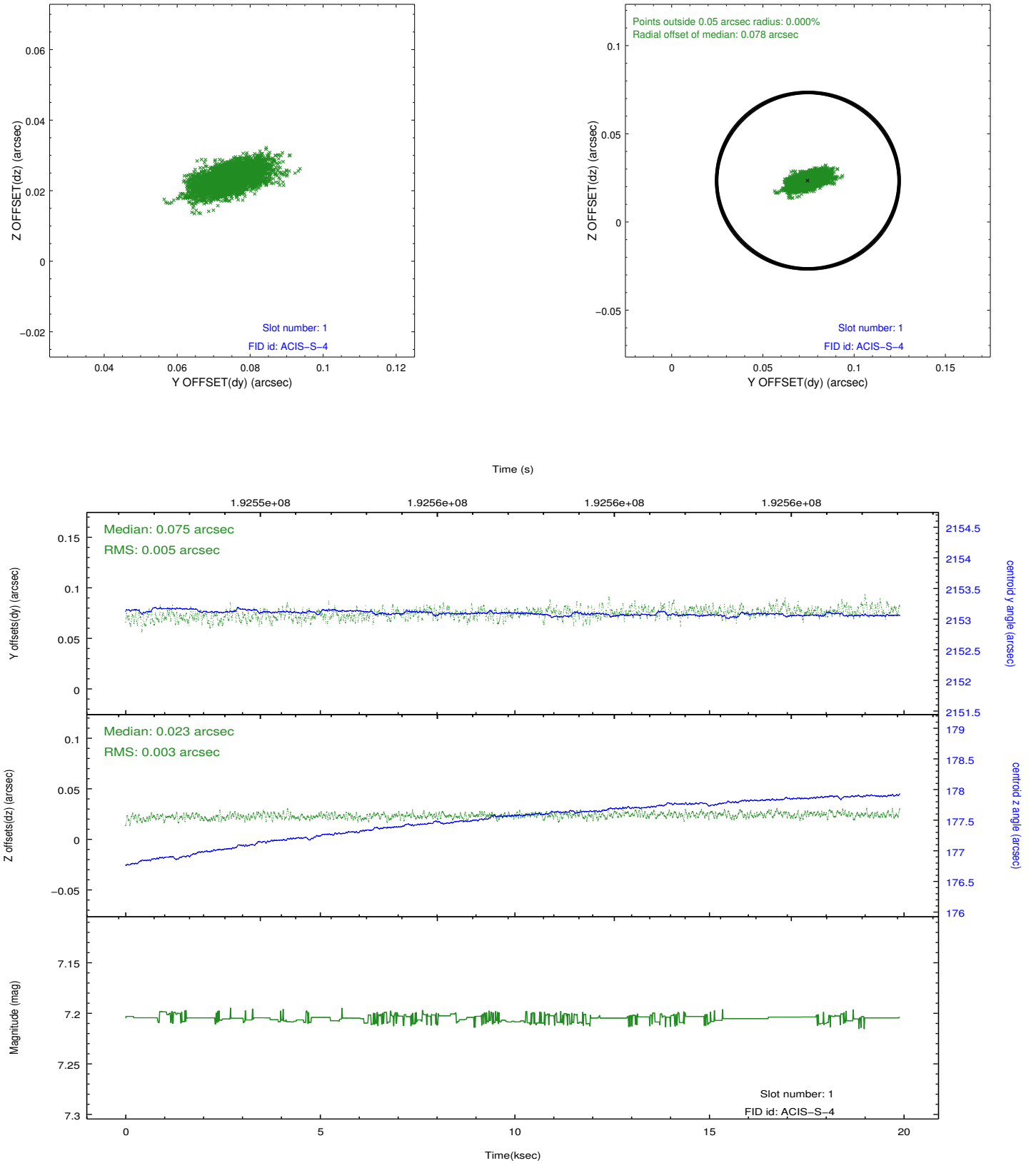


2.5 FID Slots

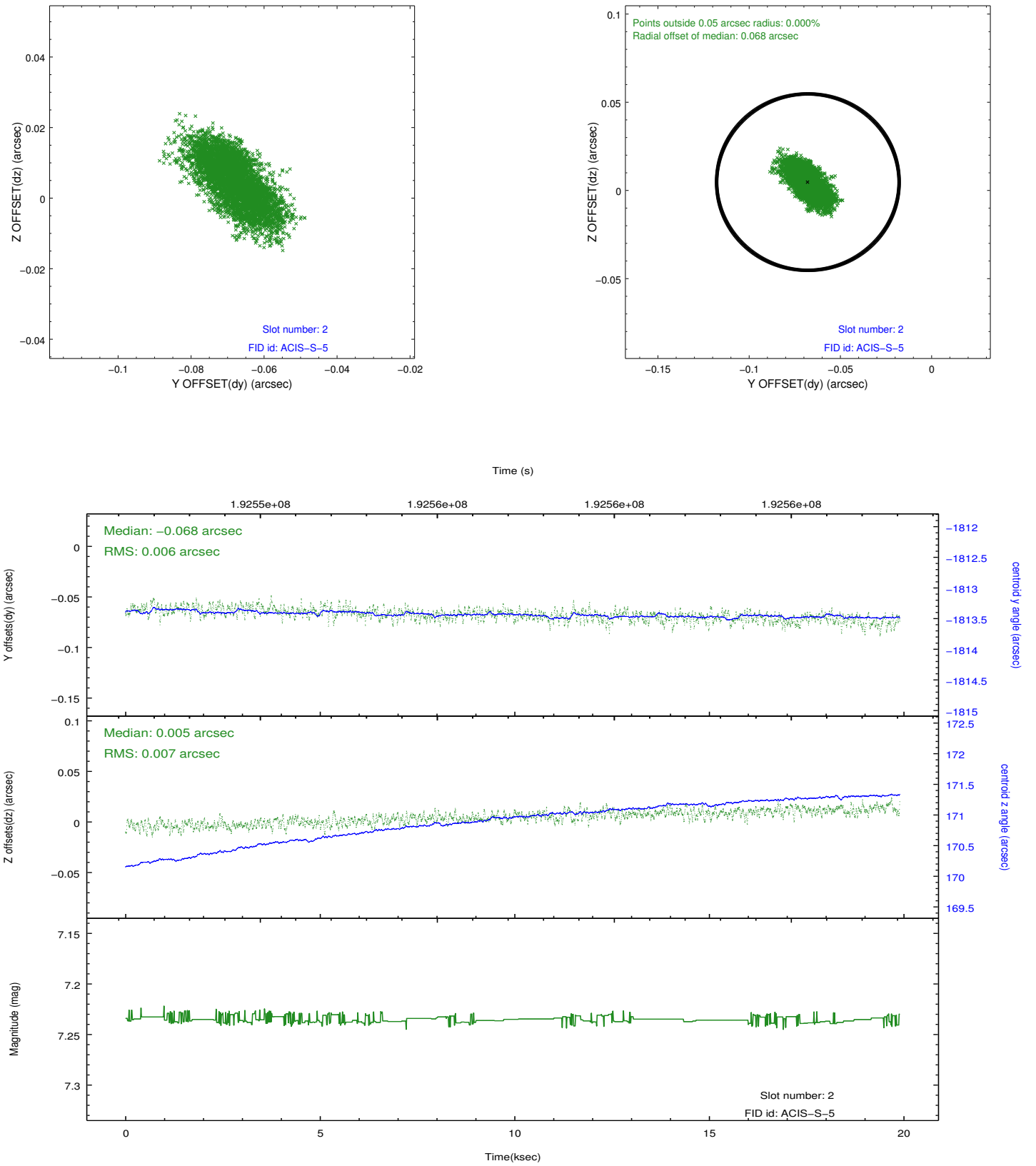
2.5.1 Slot 0



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)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.898

A.2 Comments