

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 4672 - L2 Version 4
Chandra X-Ray Center

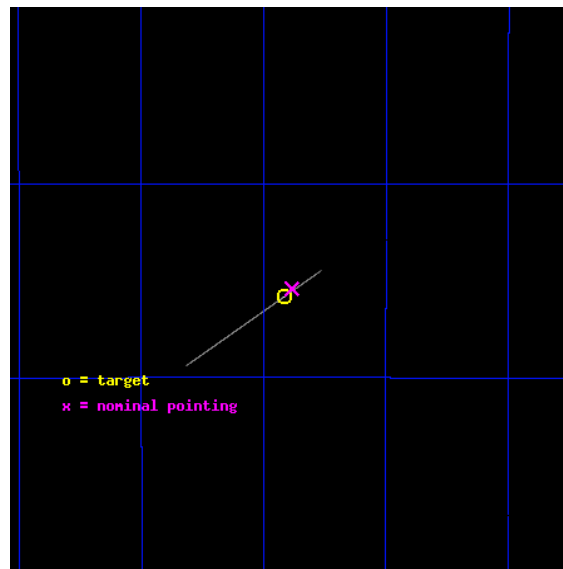
L2 Processing Date : Dec 6 2012

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1 Front

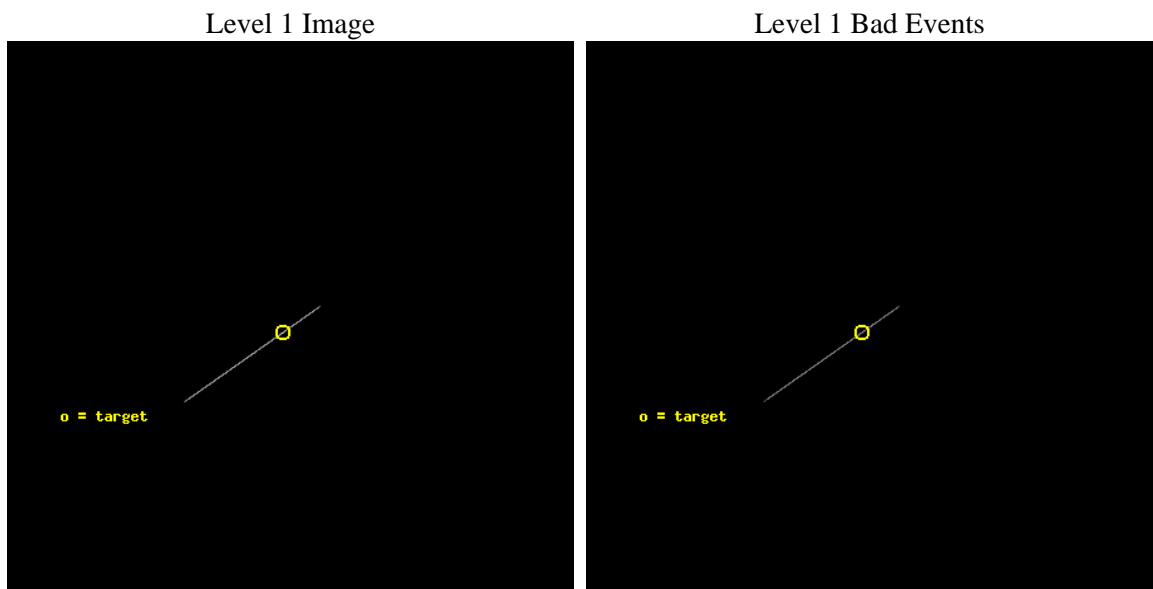
seq_num	500491	Sequence number
obs_id	4672	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J0720.4-3125	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.104167	Observer's specified target RA [deg]
dec_targ	-31.430444	Observer's specified target Dec [deg]
ra_nom	110.09615052741	Nominal RA [deg]
dec_nom	-31.423618224765	Nominal Dec [deg]
roll_nom	145.13778658621	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5118.5	Sum of GTIs [s]
livetime	5098.505859375	Livetime [s]
ontime7	5118.5	Sum of GTIs [s]
l2events	28410	Number of level 2 events



2 OBI

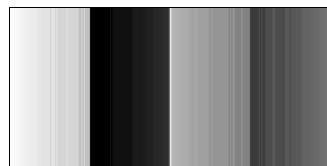
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	5118.5	Sum of GTIs [s]
caldsver	4.5.4	 	ontime7	5118.5	Sum of GTIs [s]
date	2012-12-06T23:48:23	Date and time of file creation	l1events	41824	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

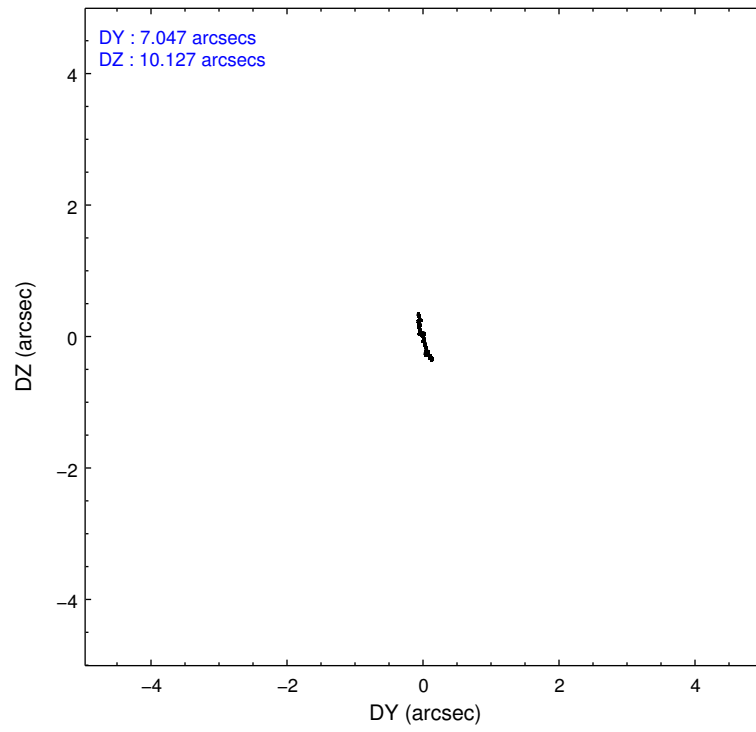
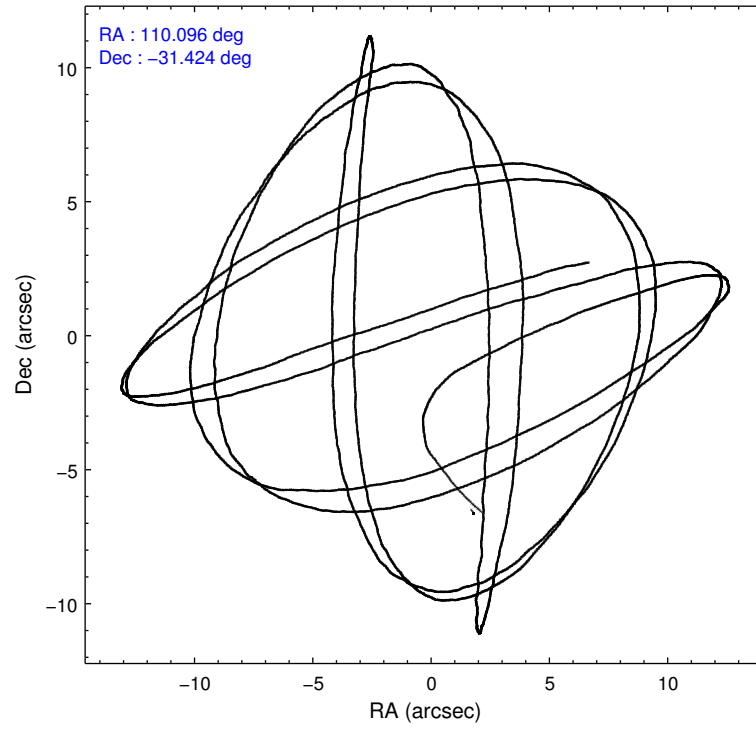
	ccd 7
level 1 events	41824
rejected events	12511
rejected %	29%

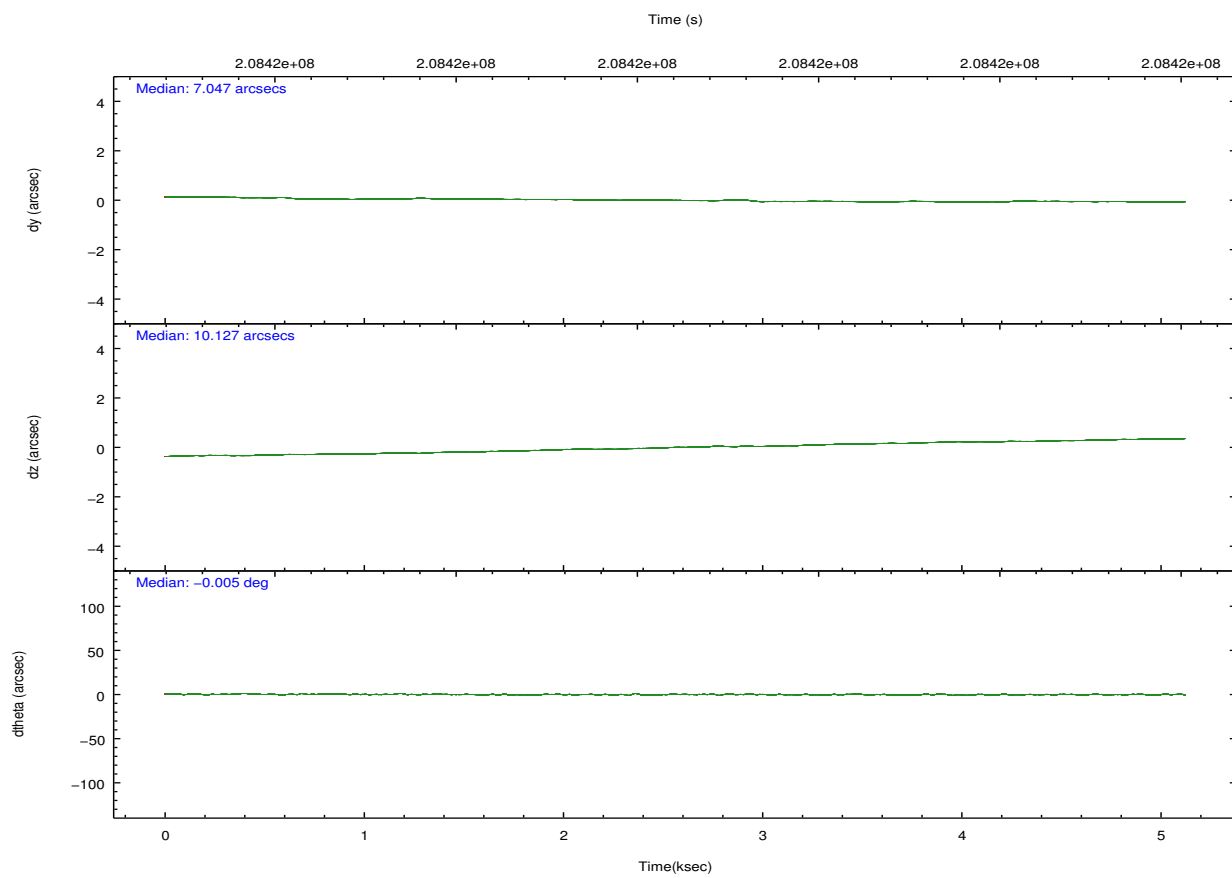
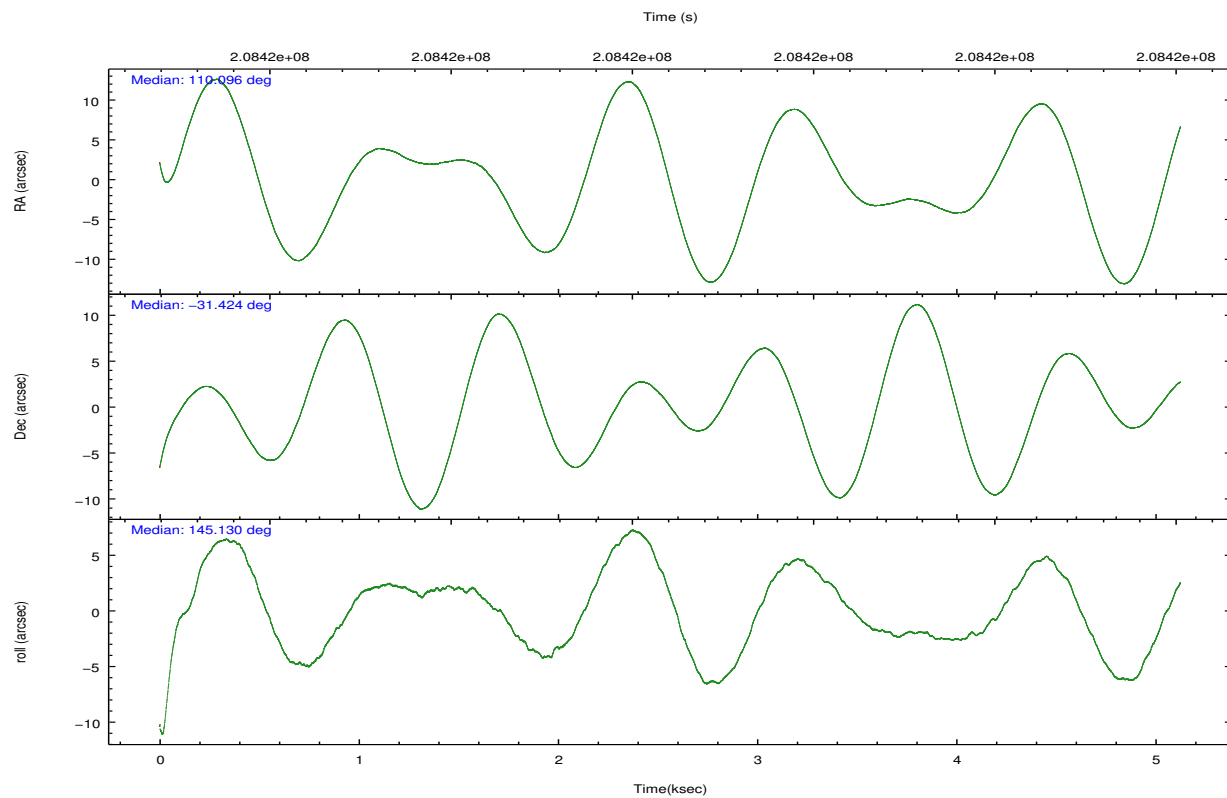
	ccd 7
grade 0 events	7972
	19%
grade 1 events	105
	0%
grade 2 events	8426
	20%
grade 3 events	2803
	6%
grade 4 events	2683
	6%
grade 5 events	5426
	12%
grade 6 events	14409
	34%
grade 7 events	0
	0%

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	110.127978	110.0961505274103	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.425548	-31.42361822476484	Alternating exposures requested	N	N
[deg] Pointing Roll	144.997790	145.1377865862057	[s] Primary exposure time	0.000000	0
[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)	208415770.184000	208413915.52686			
Observation start date	2004-08-09T05:15:06	2004-08-09T04:45:15			
[s] Observation end time (MET)	208420770.184000	208422025.32722			
Observation end date	2004-08-09T06:38:26	2004-08-09T07:00:25			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



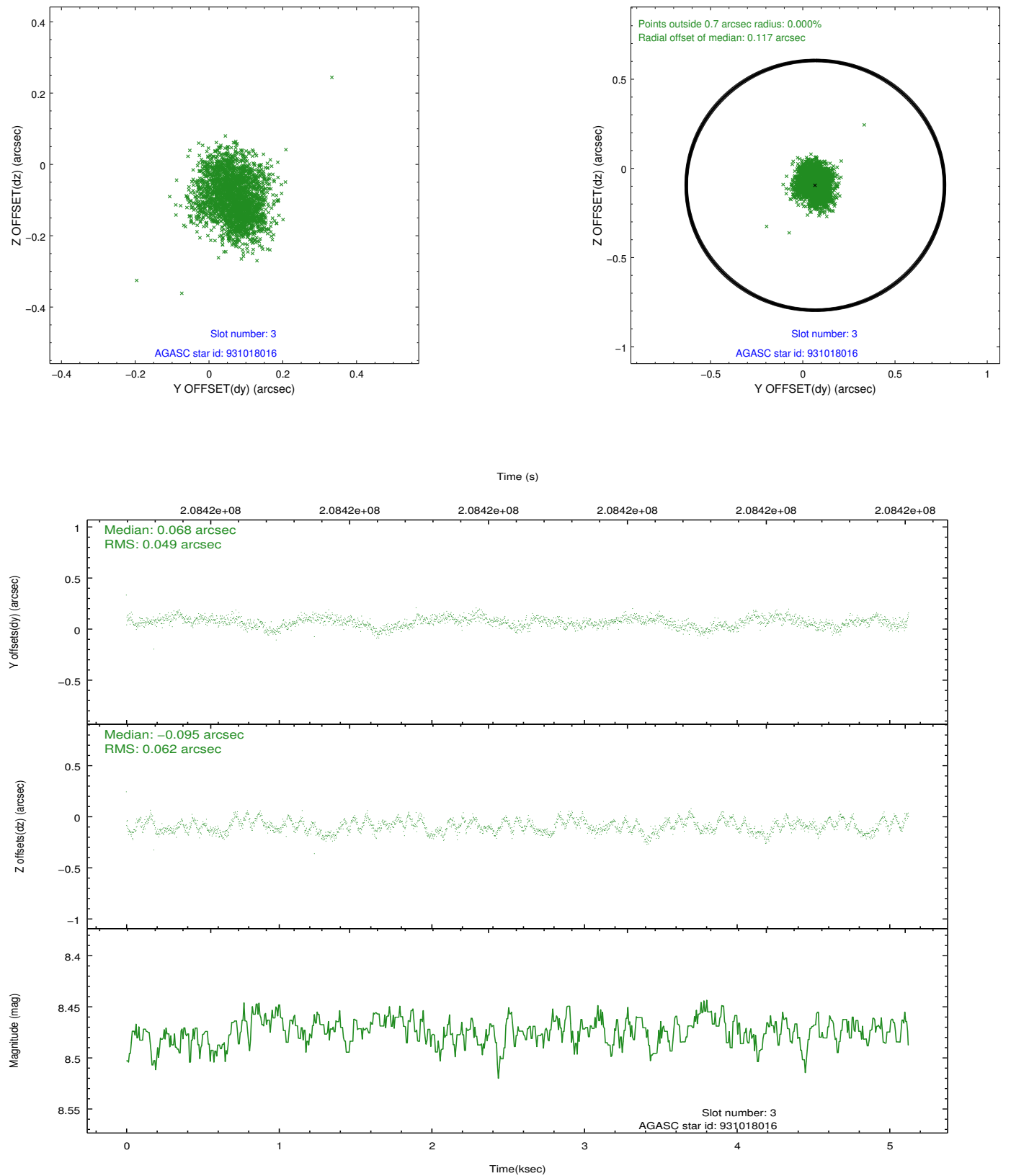


Slot Statistics

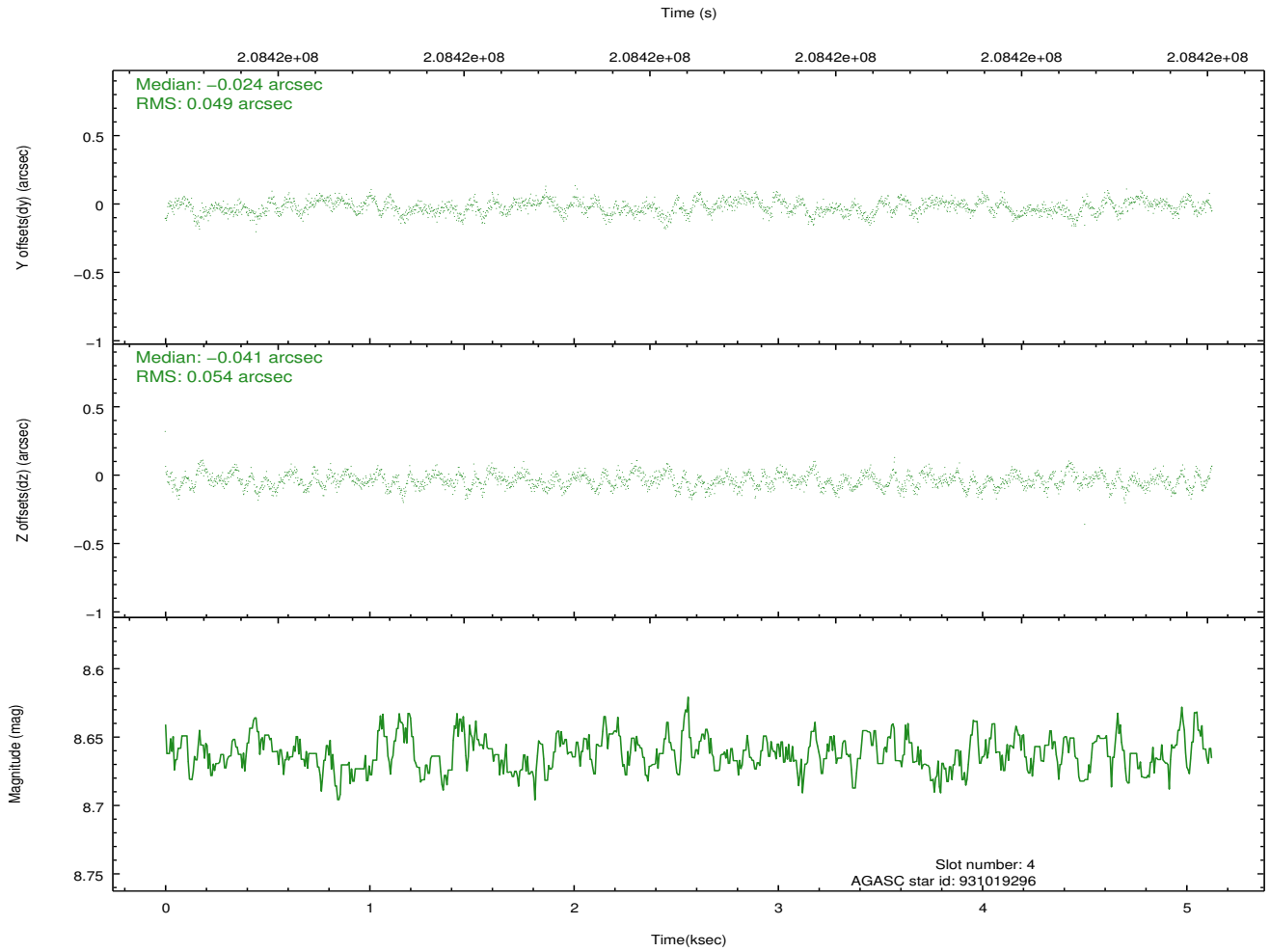
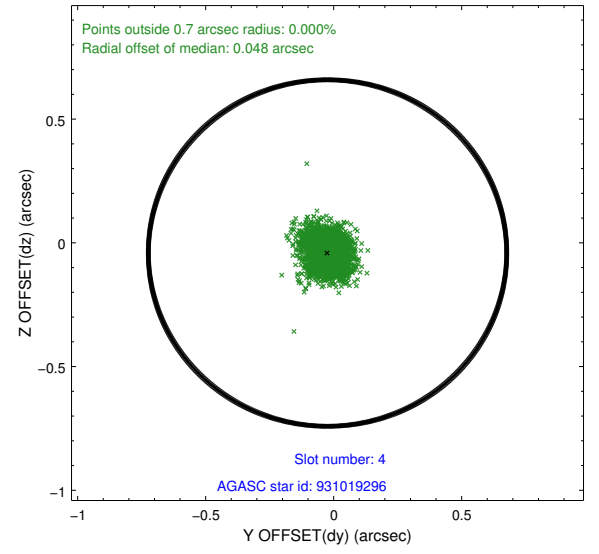
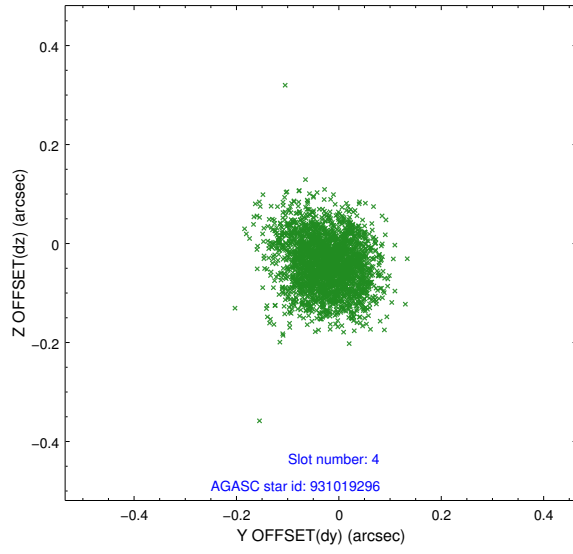
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1251	-0.056	-0.021	0.008	0.013	0.000000	0.000000	-759.82	-1731.40
1	FID	ACIS-S-4	7.20	1251	0.086	0.032	0.006	0.012	0.000000	0.000000	2153.02	175.97
2	FID	ACIS-S-5	7.23	1250	-0.062	-0.003	0.009	0.016	0.000000	0.000000	-1811.19	170.87
3	GUIDE	931018016	8.47	2501	0.068	-0.095	0.085	0.130	109.684535	-31.226562	1527.78	198.77
4	GUIDE	931019296	8.66	2501	-0.024	-0.041	0.078	0.123	109.471771	-31.694370	1088.42	1951.22
5	GUIDE	931160352	8.62	2501	0.012	0.147	0.073	0.120	110.268138	-30.864891	803.88	-1900.45
6	GUIDE	931163512	8.45	2501	0.011	0.085	0.069	0.111	110.894384	-31.299941	-1675.67	-1716.82
7	GUIDE	931022960	8.95	2497	-0.071	-0.088	0.080	0.128	109.733092	-31.864448	80.61	1987.91

2.4 Star Slots

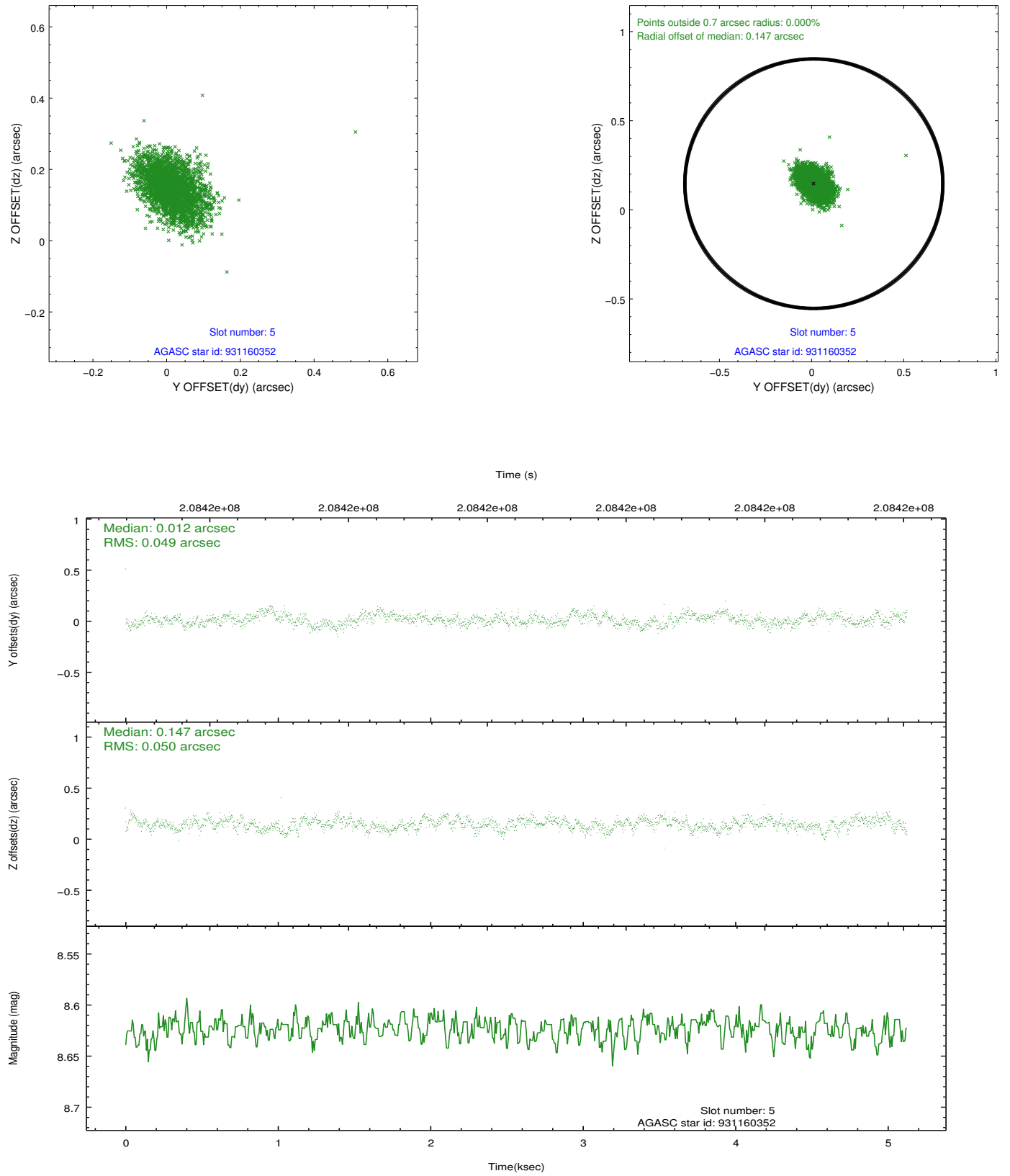
2.4.1 Slot 3



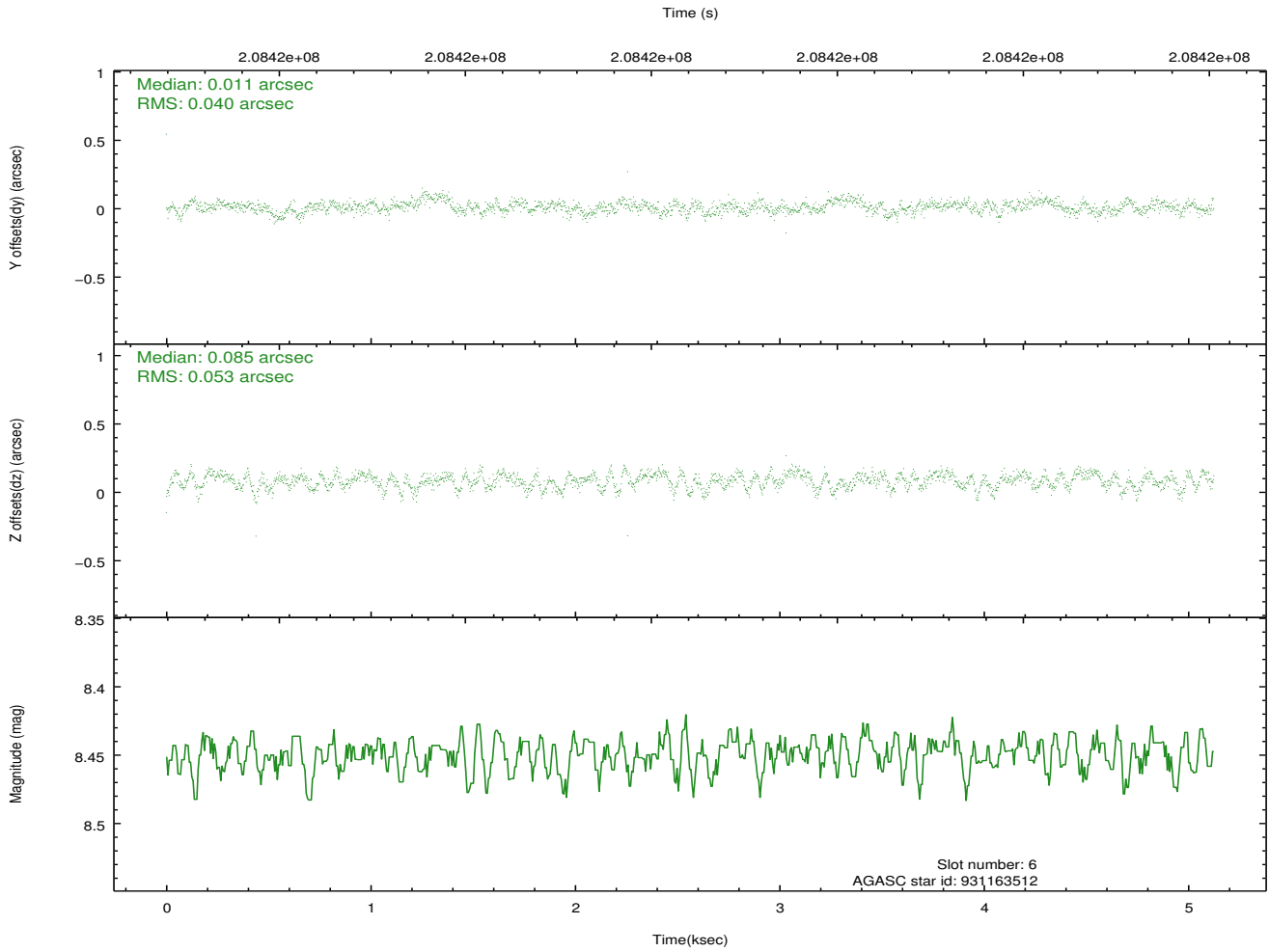
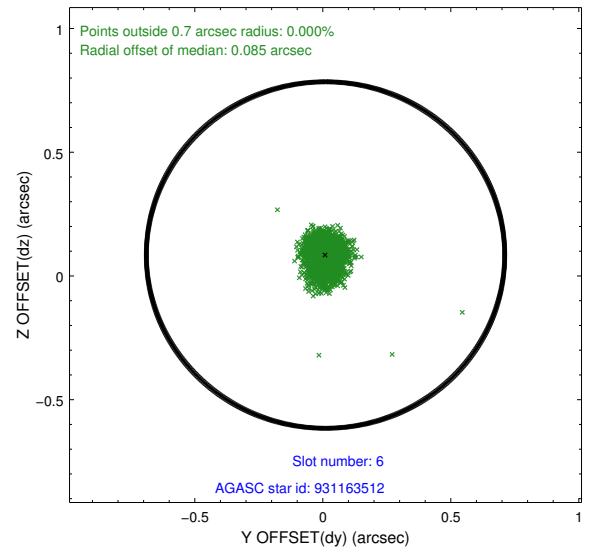
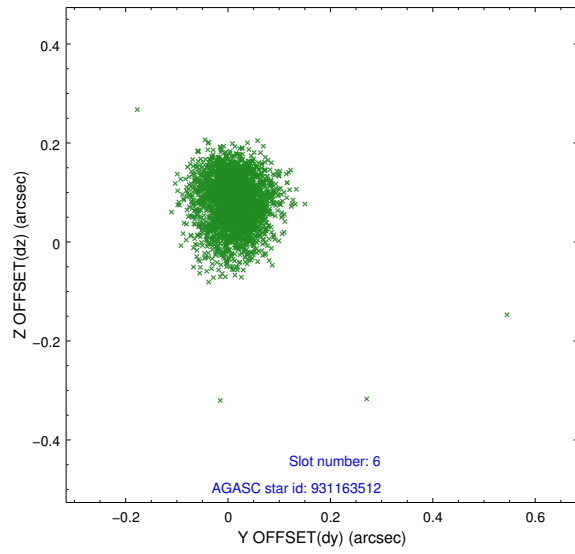
2.4.2 Slot 4



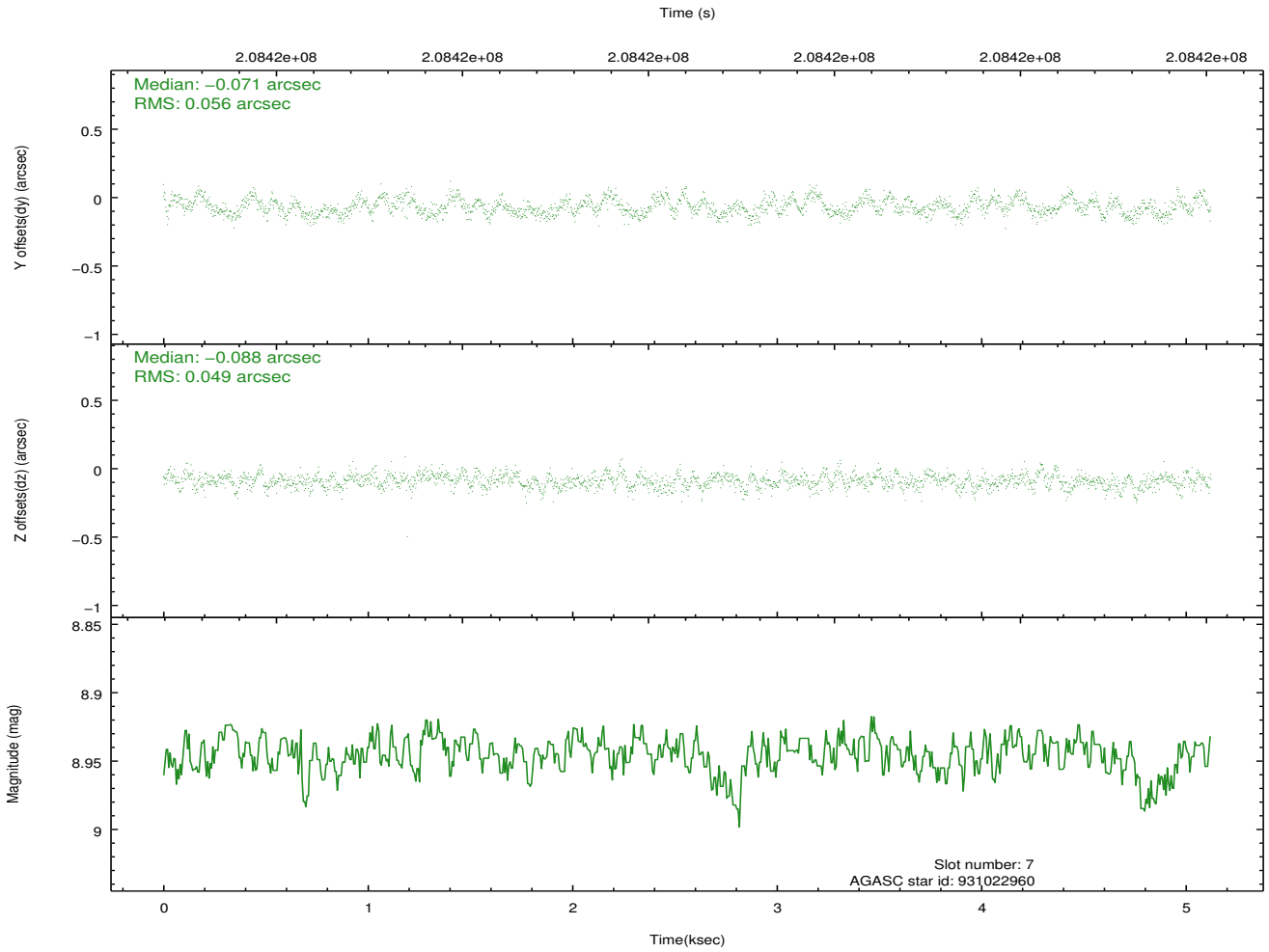
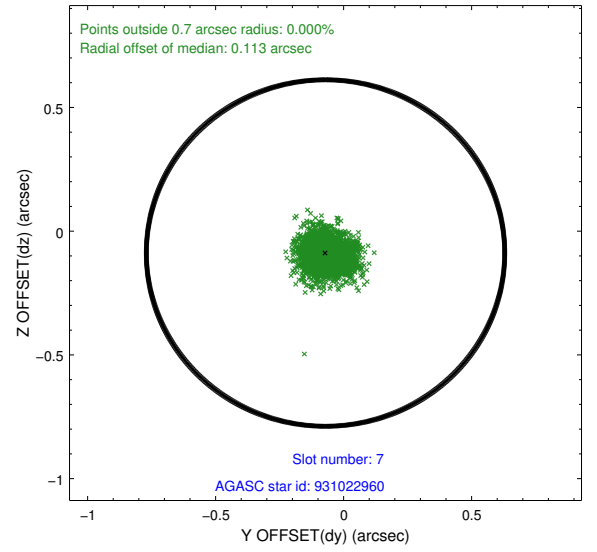
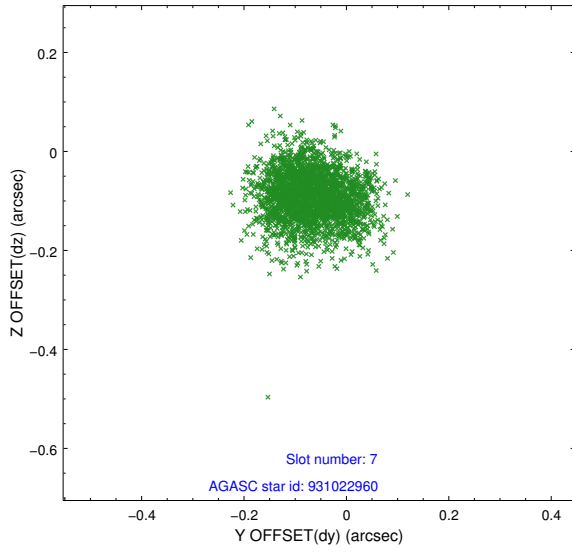
2.4.3 Slot 5



2.4.4 Slot 6

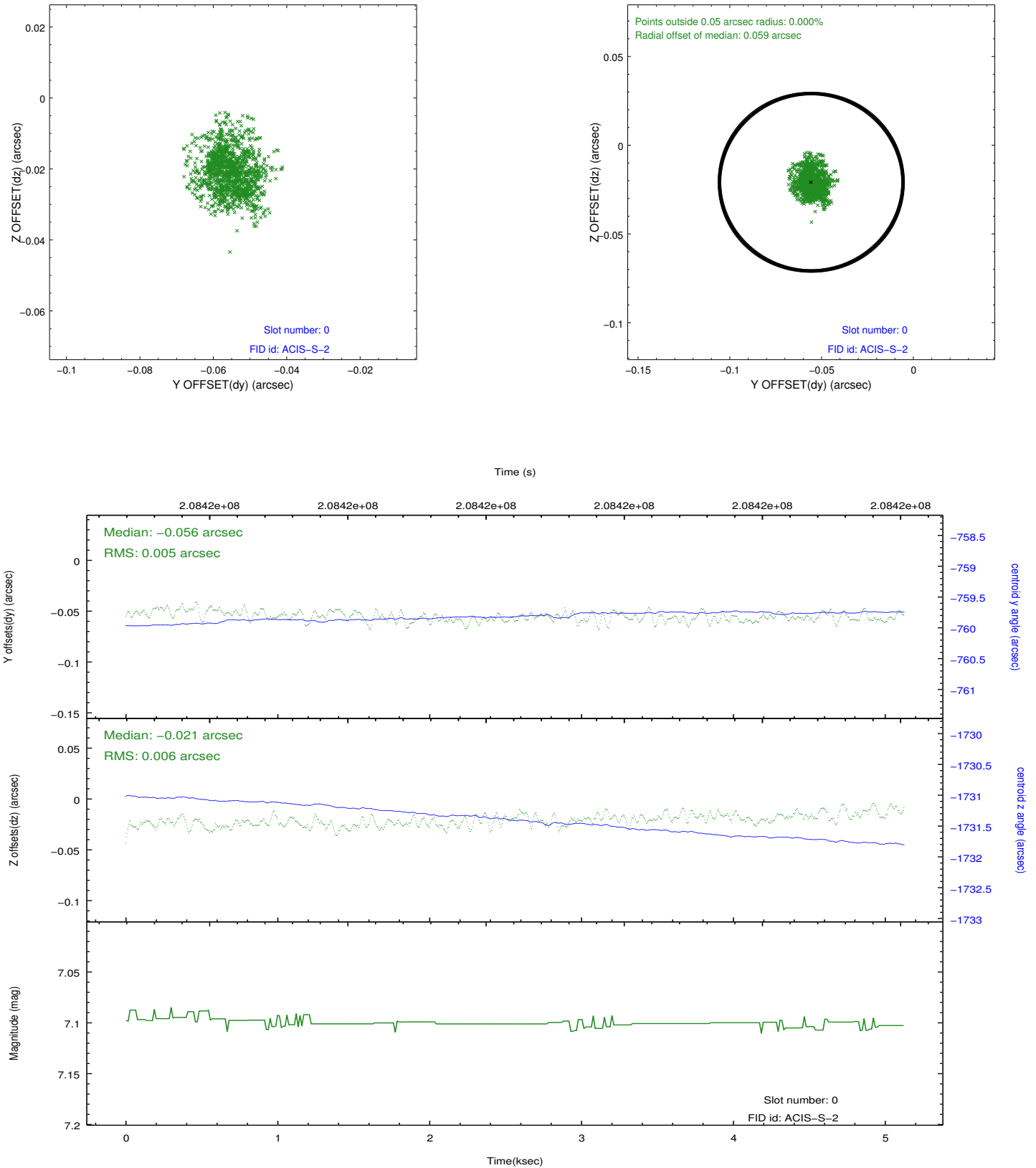


2.4.5 Slot 7

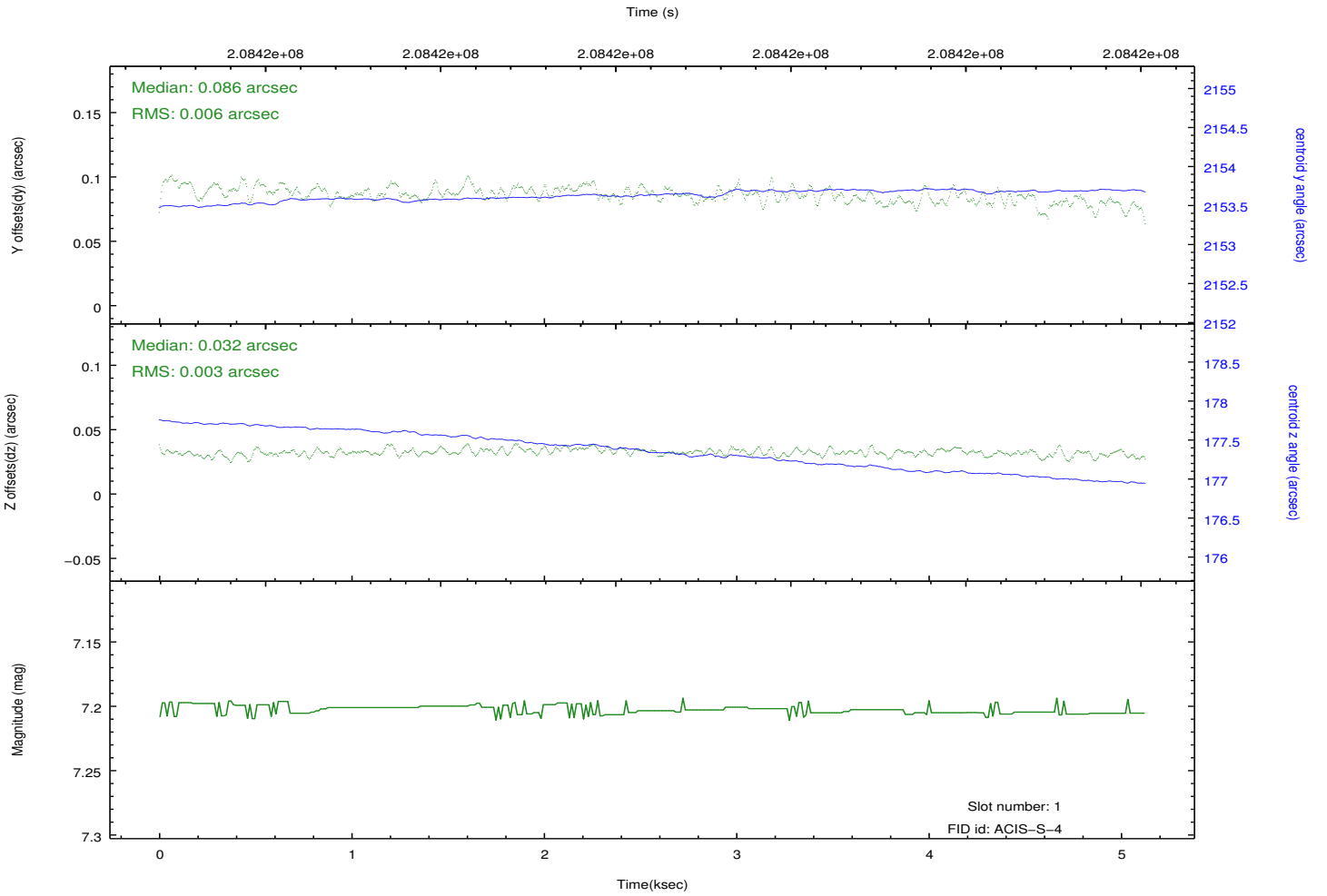
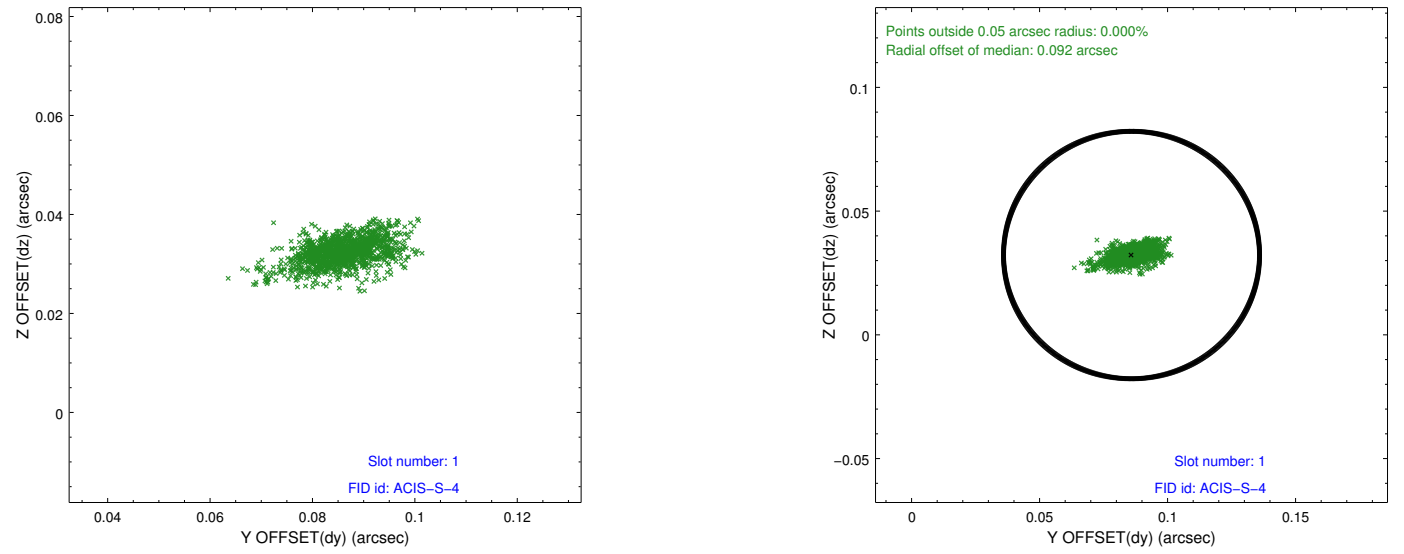


2.5 FID Slots

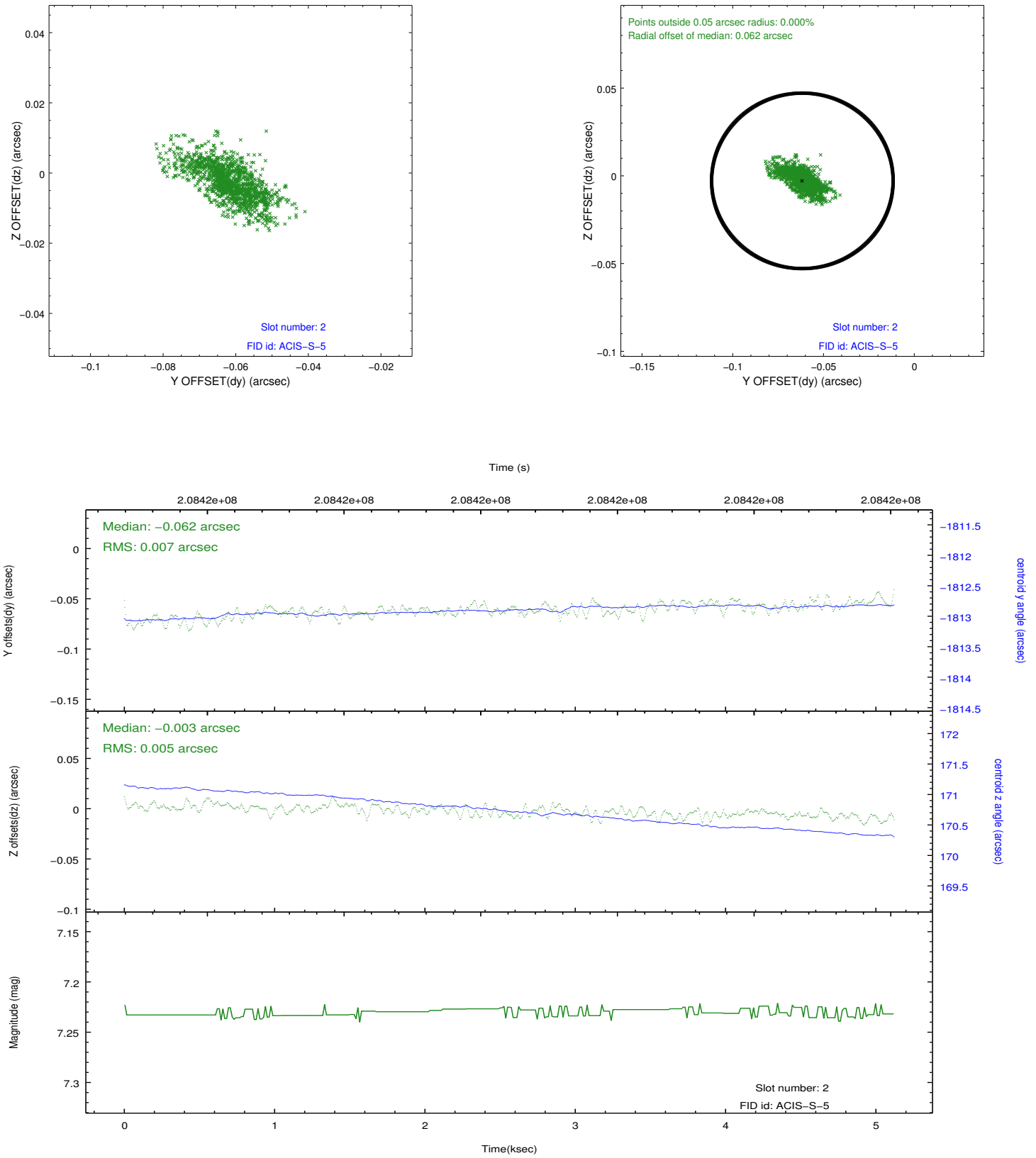
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.12.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.122

A.2 Comments