

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 14798 - L2 Version 2
Chandra X-Ray Center

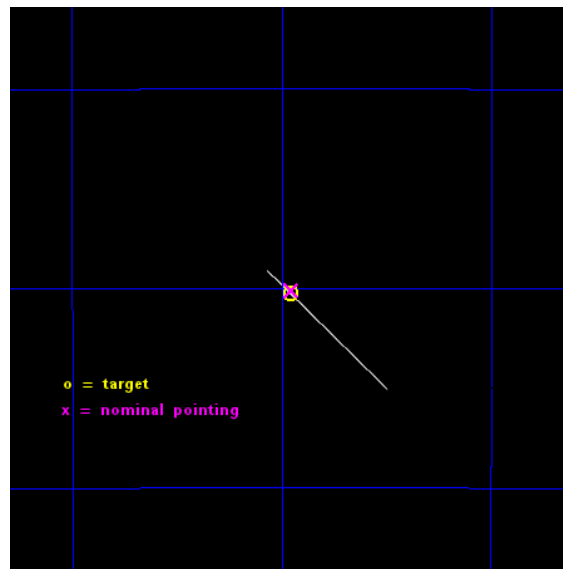
L2 Processing Date : Nov 30 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

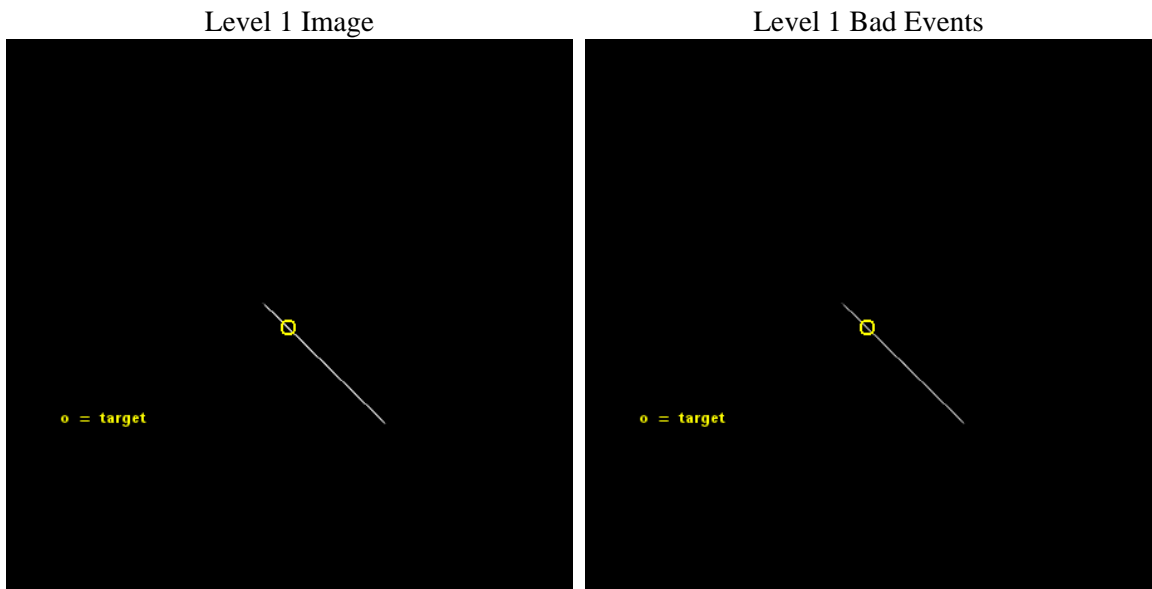
seq_num	501926	Sequence number
obs_id	14798	Observation id
title	Continuing the Ephemeris of the CCO Pulsar in Puppis A	Proposal ti
observer	Prof. Jules Halpern	Principal investigator
object	PSR J0821-4300	Source name
ra_targ	125.488892	Observer's specified target RA [deg]
dec_targ	-43.004792	Observer's specified target Dec [deg]
ra_nom	125.48807690861	Nominal RA [deg]
dec_nom	-43.001829594296	Nominal Dec [deg]
roll_nom	43.41487943948	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30641.25	Sum of GTIs [s]
livetime	30521.557617188	Livetime [s]
ontime7	30641.25	Sum of GTIs [s]
l2events	621815	Number of level 2 events



2 OBI

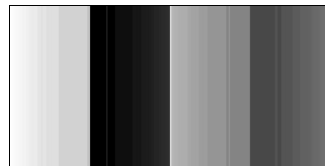
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	30641.25	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	30641.25	Sum of GTIs [s]
date	2014-11-30T05:32:51	Date and time of file creation	l1events	869156	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

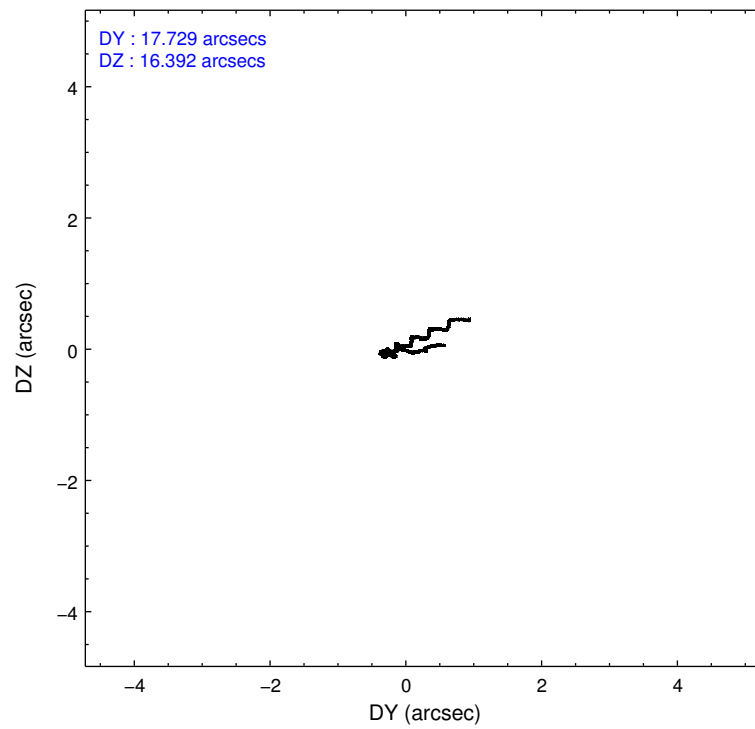
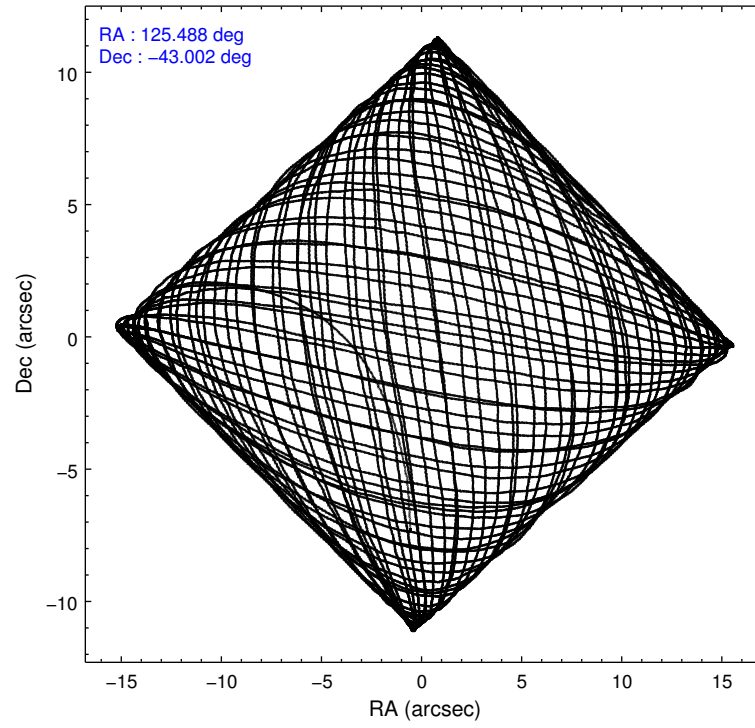
	ccd 7
level 1 events	869156
rejected events	232879
rejected %	26%

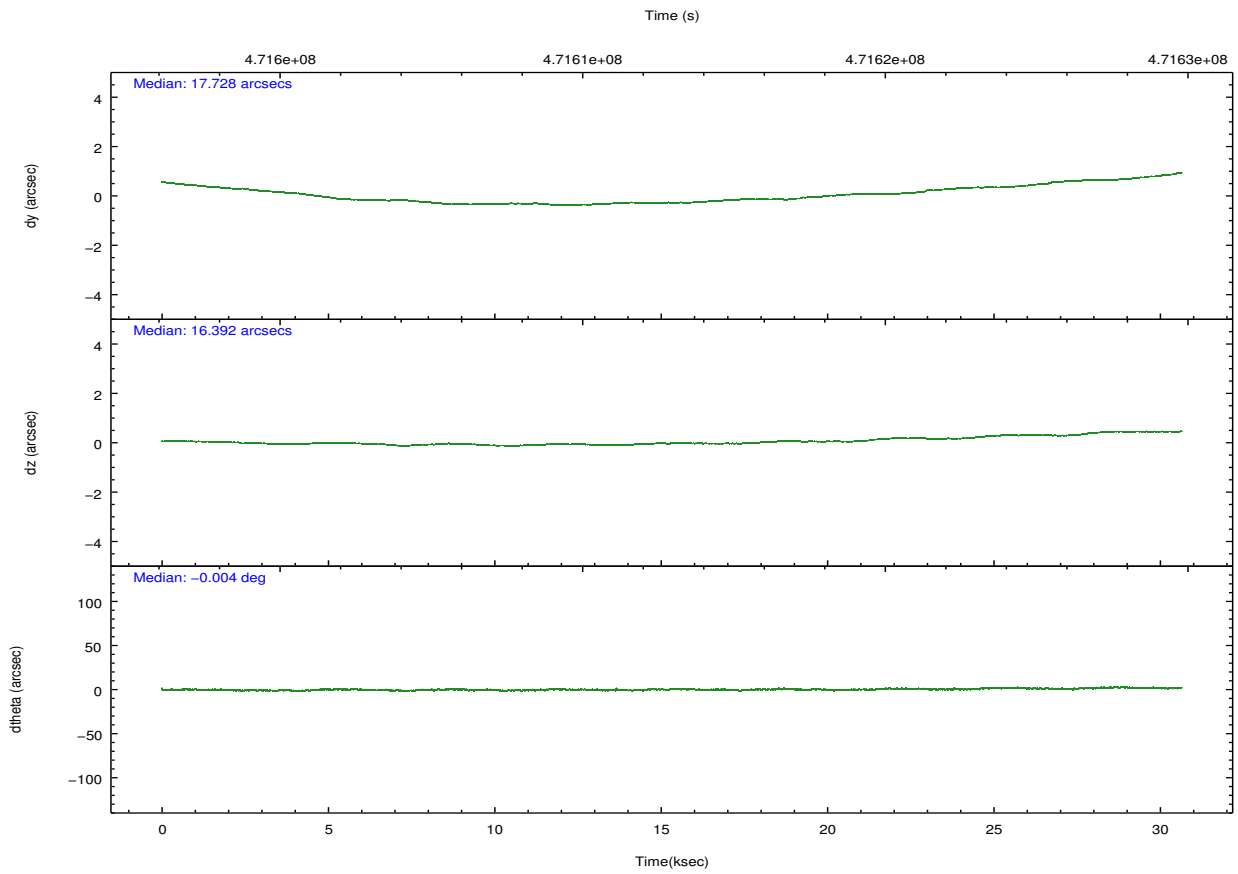
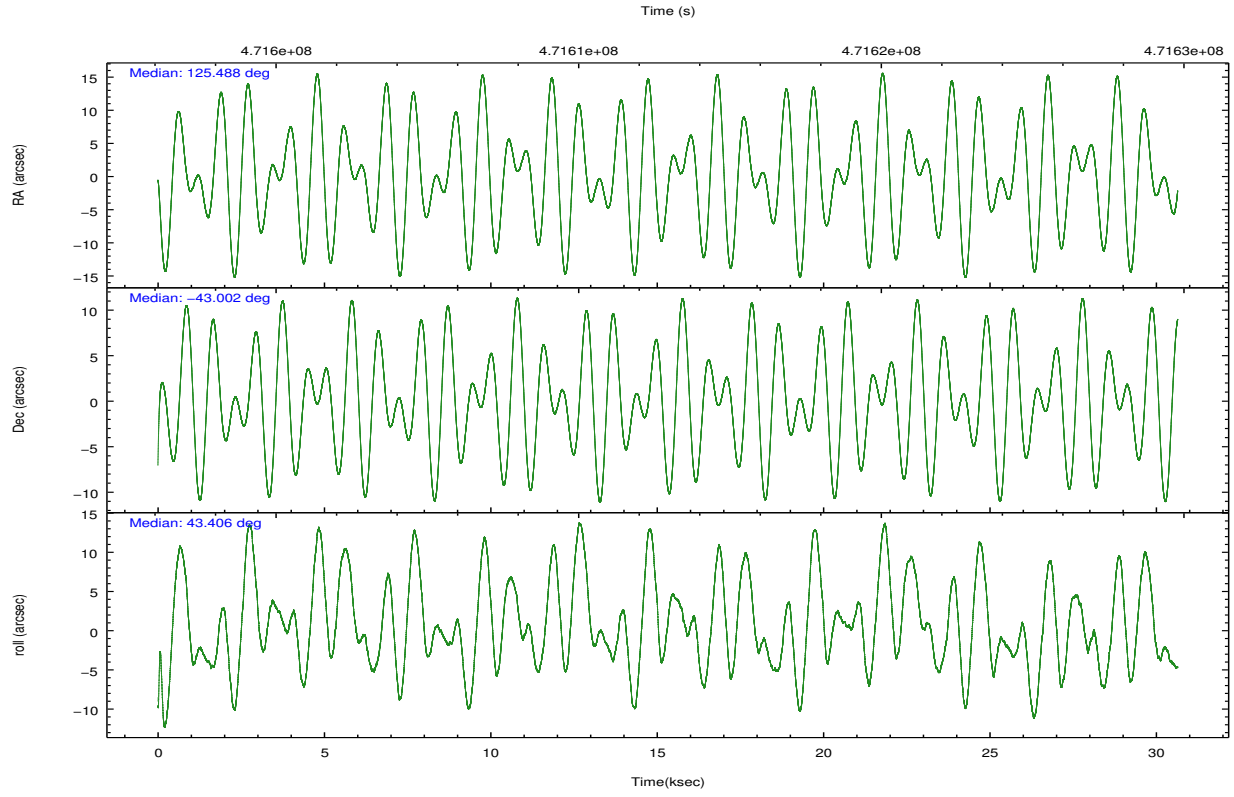
	ccd 7
grade 0 events	173087
	19%
grade 1 events	418
	0%
grade 2 events	193334
	22%
grade 3 events	64160
	7%
grade 4 events	62642
	7%
grade 5 events	25975
	2%
grade 6 events	144845
	16%
grade 7 events	204695
	23%

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	125.477915	125.4880769086093	Subarray requested	NONE	NONE
[deg] Pointing Dec	-43.028128	-43.00182959429648	Alternating exposures requested	N	N
[deg] Pointing Roll	43.251320	43.41487943948044	[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)	471597772.184000	471596788.33239			
Observation start date	2012-12-11T07:21:45	2012-12-11T07:06:28			
[s] Observation end time (MET)	471628272.184000	471629133.74663			
Observation end date	2012-12-11T15:50:05	2012-12-11T16:05:33			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





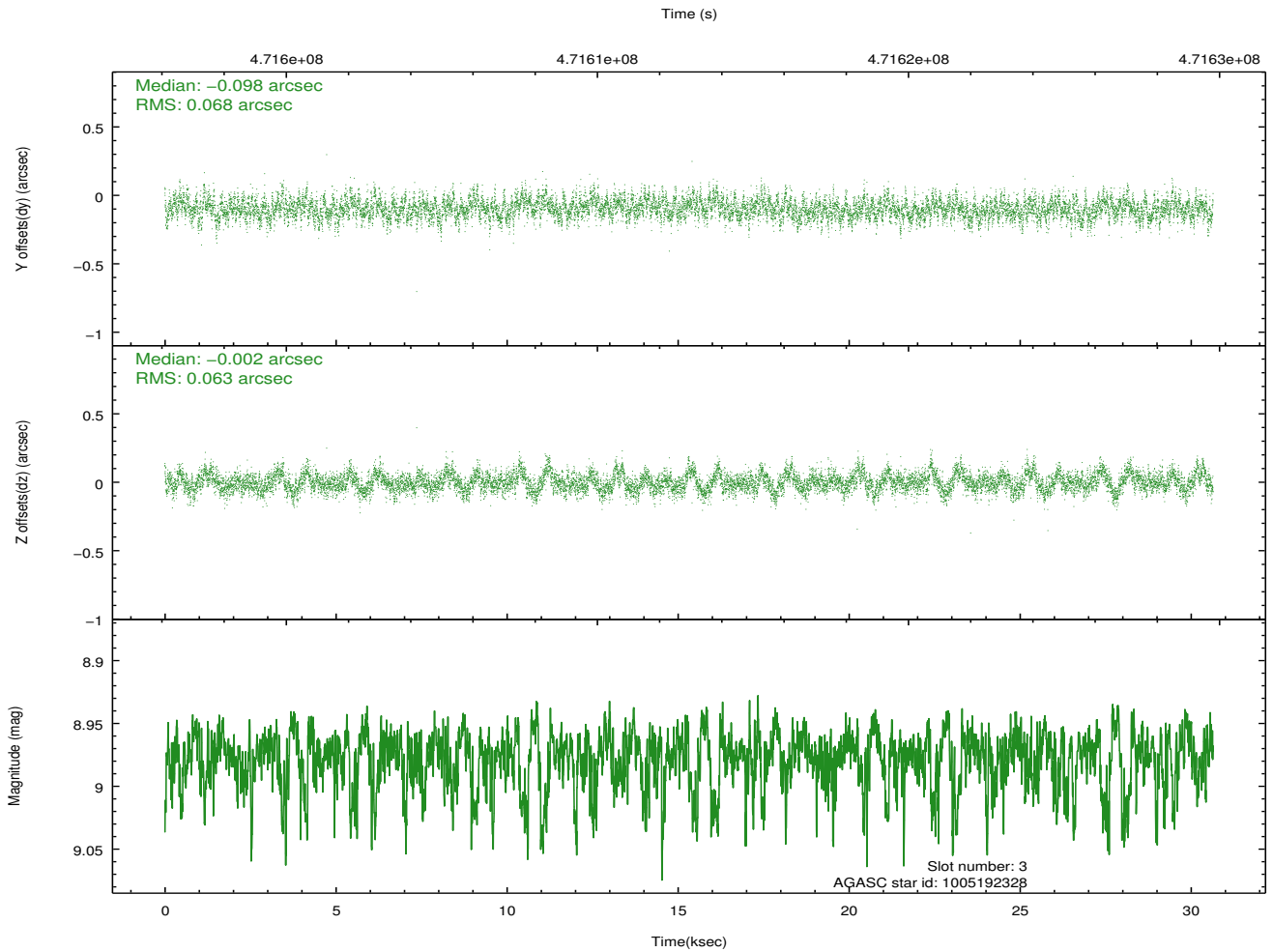
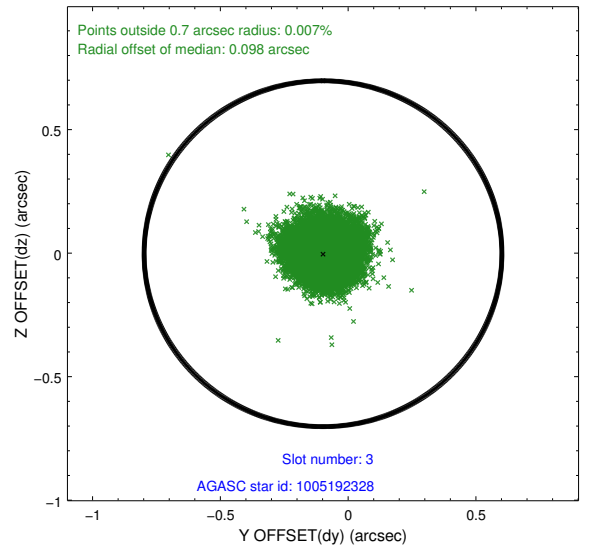
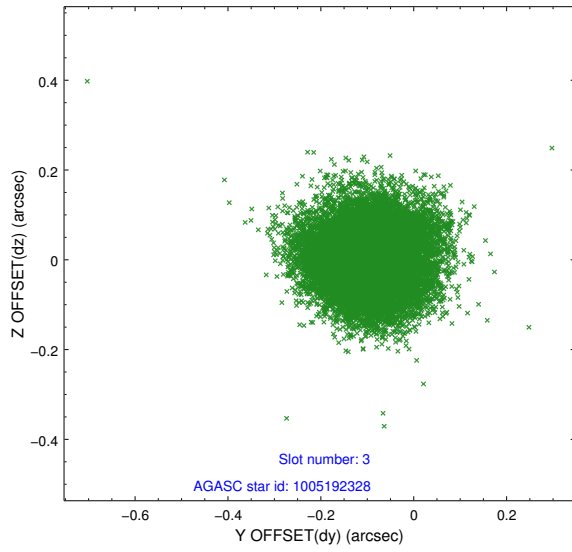
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	7475	-0.101	-0.012	0.010	0.017	0.000000	0.000000	-770.94	-1737.90
1	FID		ACIS-S-4	7.04	7475	0.248	0.052	0.013	0.024	0.000000	0.000000	2142.65	170.58
2	FID		ACIS-S-5	7.07	7475	-0.178	-0.032	0.016	0.027	0.000000	0.000000	-1823.78	164.24
3	GUIDE	used	1005192328	8.98	14921	-0.098	-0.002	0.098	0.160	126.494374	-42.919317	2209.69	-1562.13
4	GUIDE	used	1005719480	8.84	14938	0.186	0.203	0.094	0.148	125.476619	-43.605627	-1425.98	-1511.89
5	GUIDE	used	1005723560	8.48	14940	0.059	0.141	0.090	0.148	126.279097	-43.364629	691.11	-2325.90
6	GUIDE	used	1005726872	7.37	14950	0.099	0.068	0.070	0.111	125.535449	-43.662820	-1455.59	-1766.84
7	GUIDE	used	1005210304	9.86	14868	-0.249	-0.408	0.140	0.229	125.364534	-42.215893	1783.07	2336.96

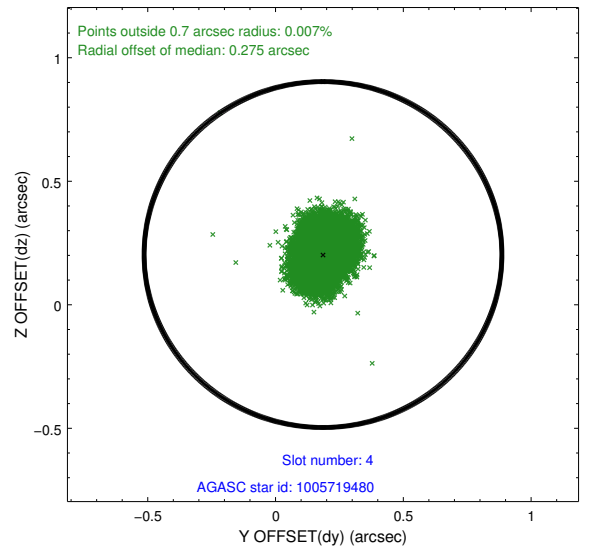
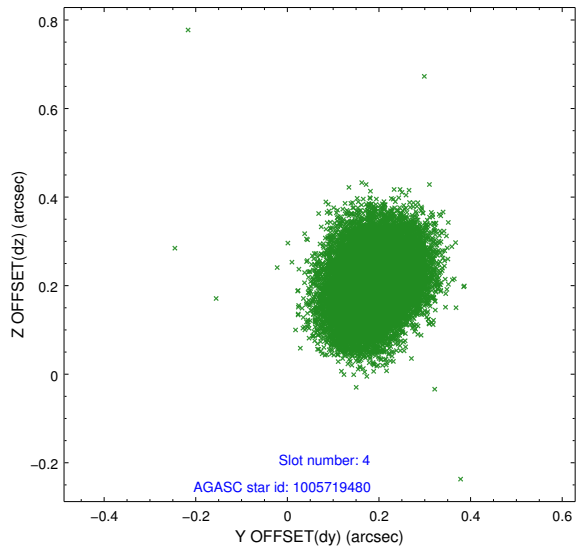
∞

2.4 Star Slots

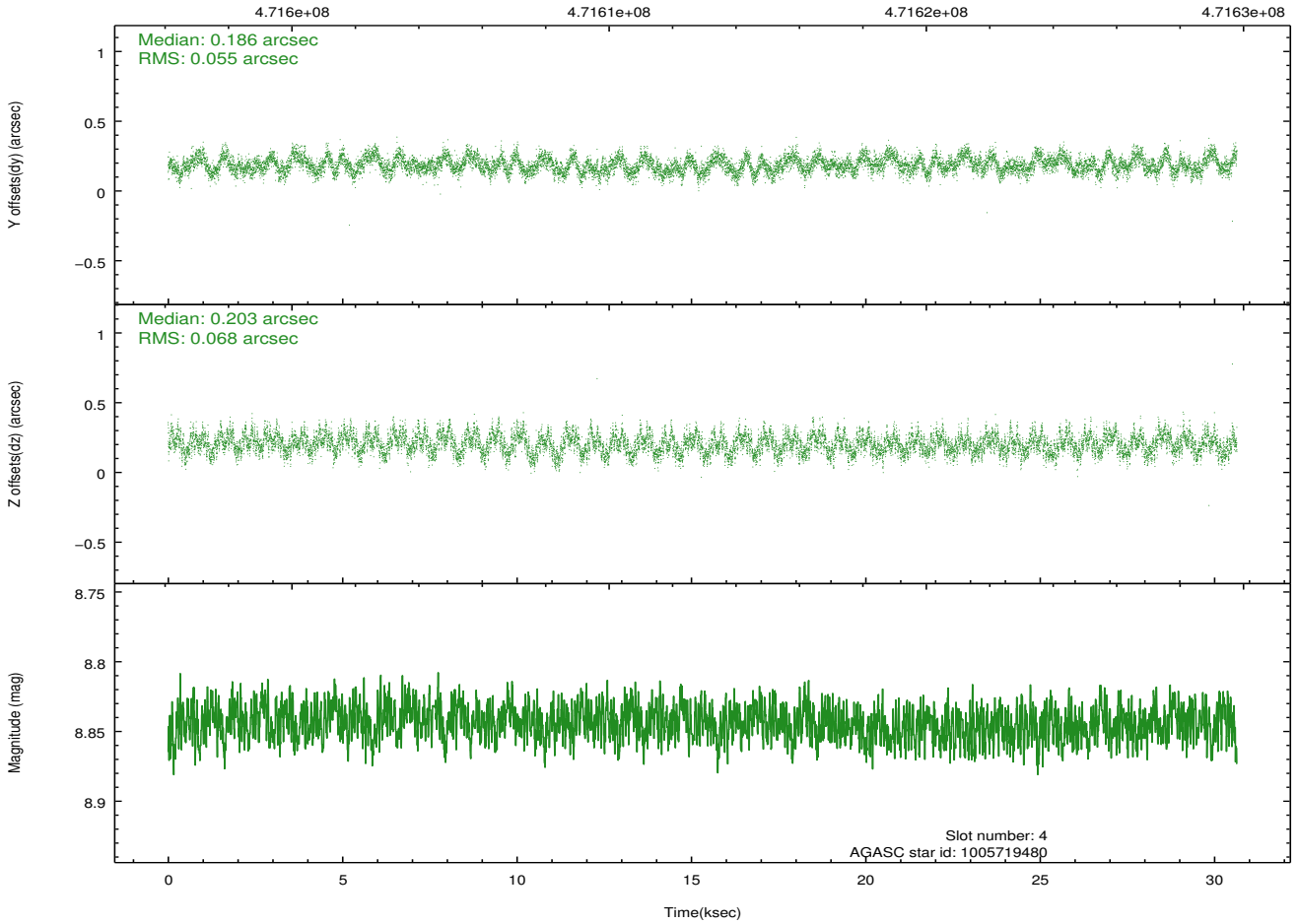
2.4.1 Slot 3



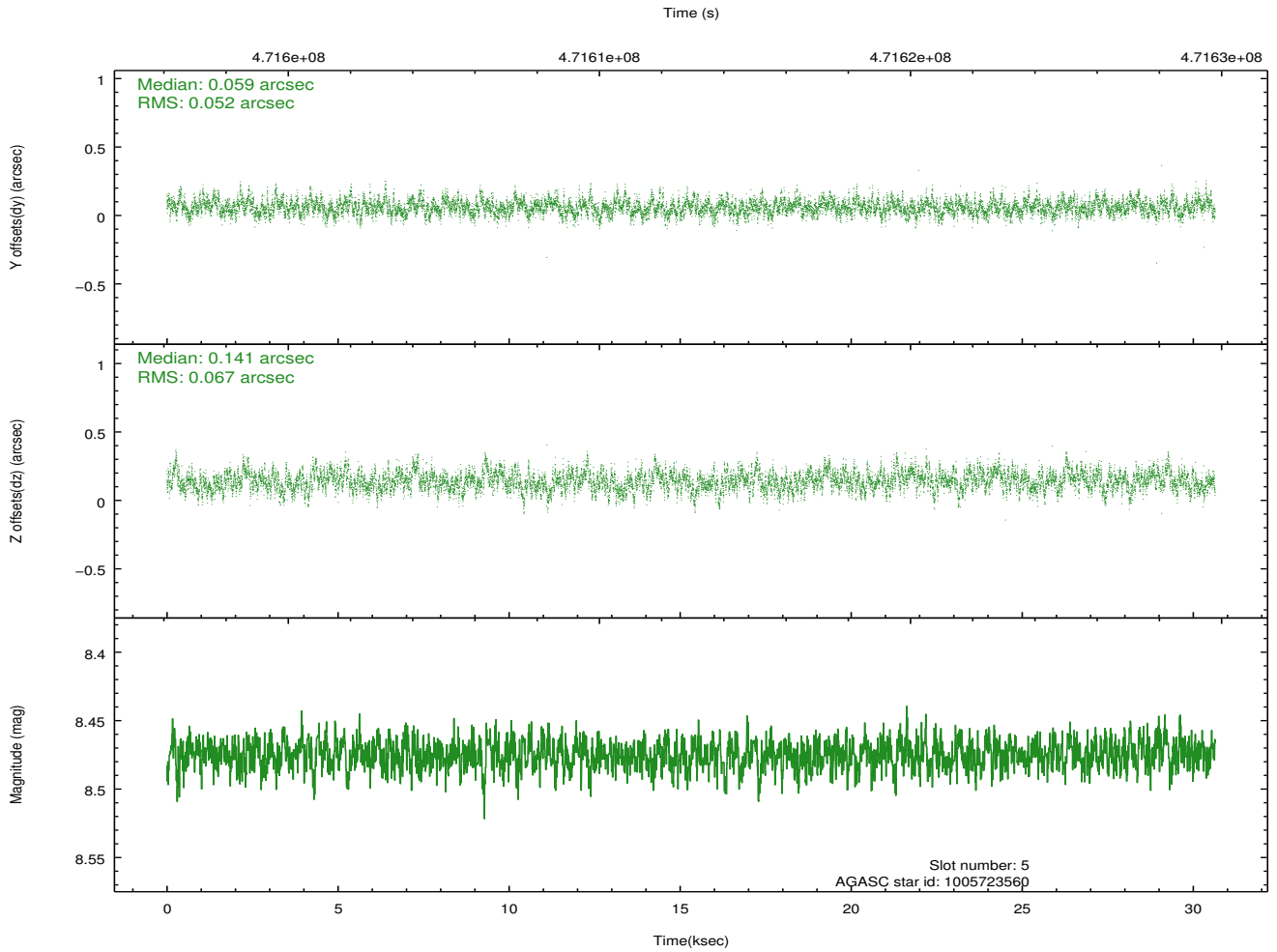
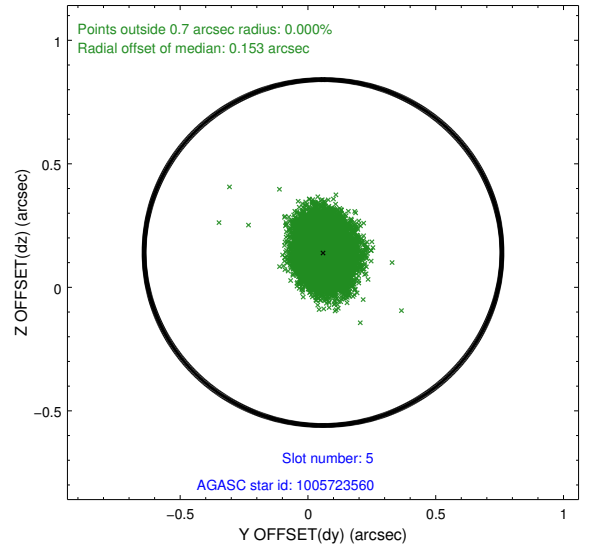
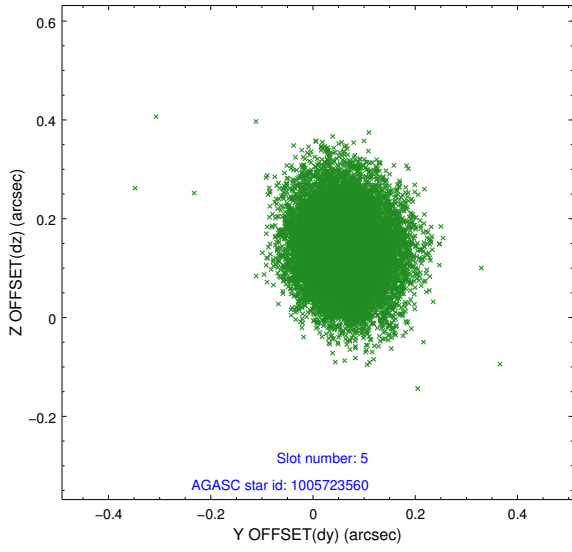
2.4.2 Slot 4



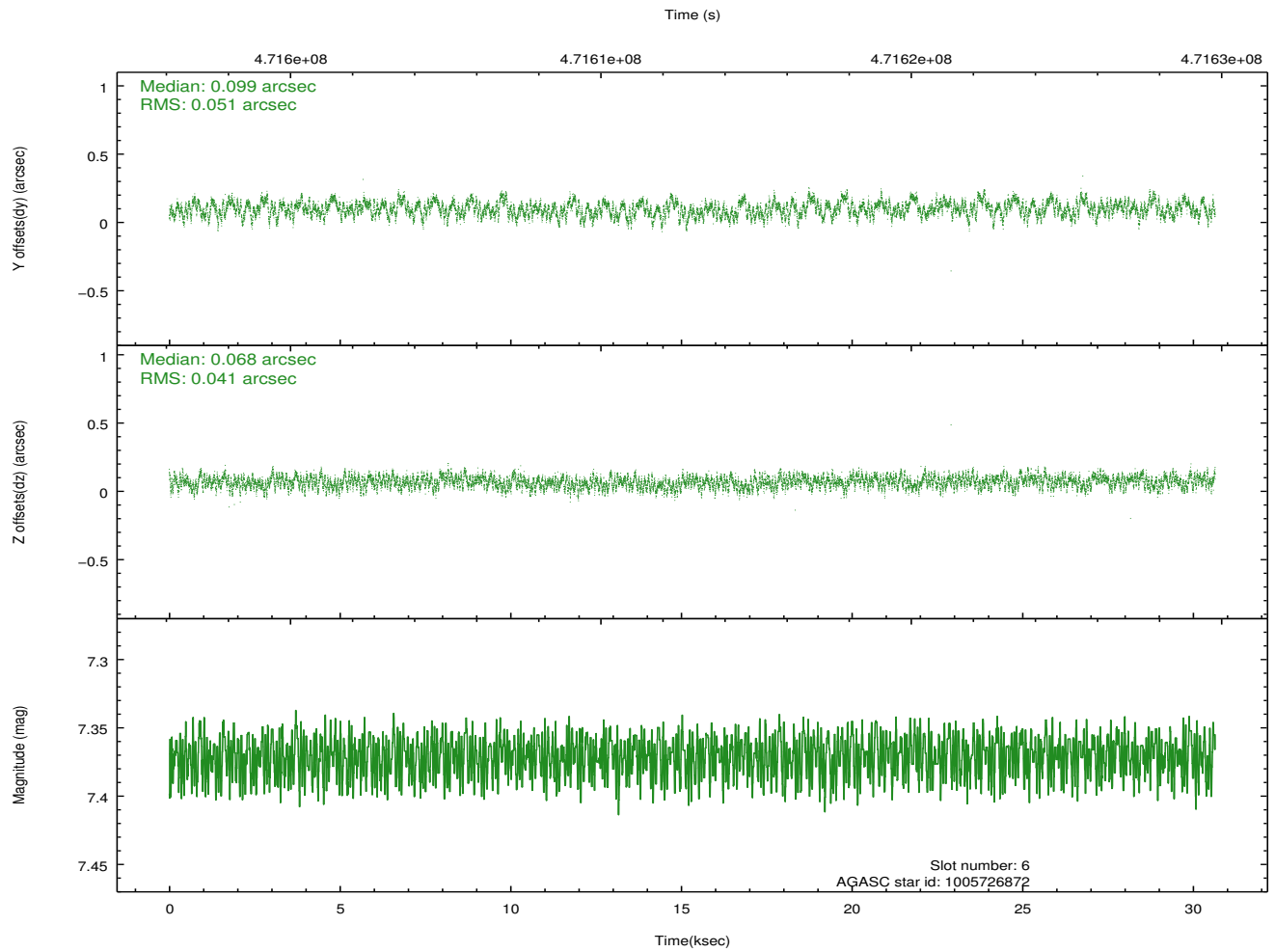
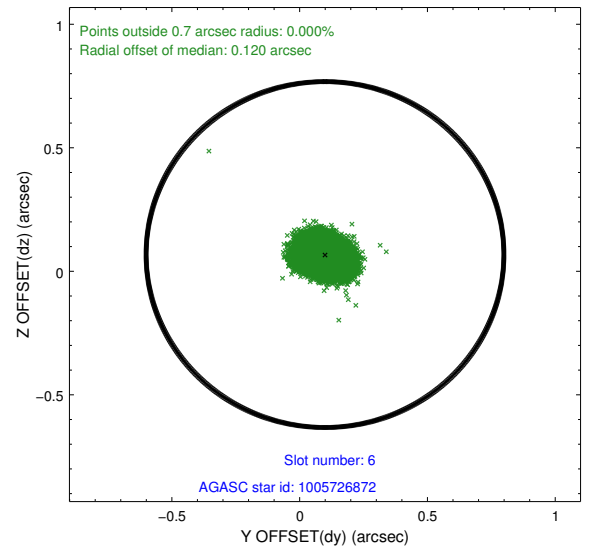
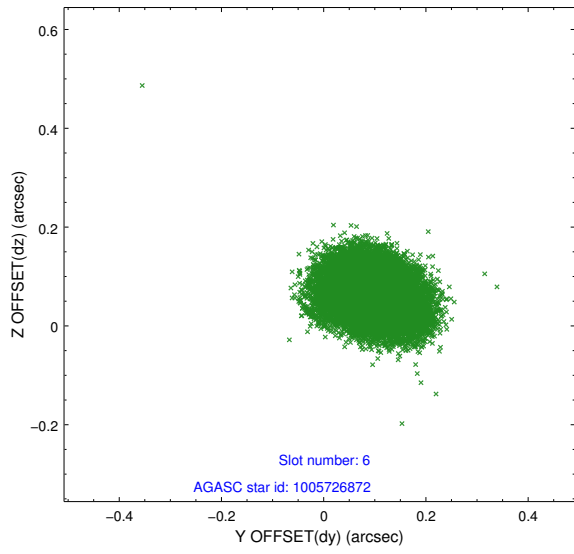
Time (s)



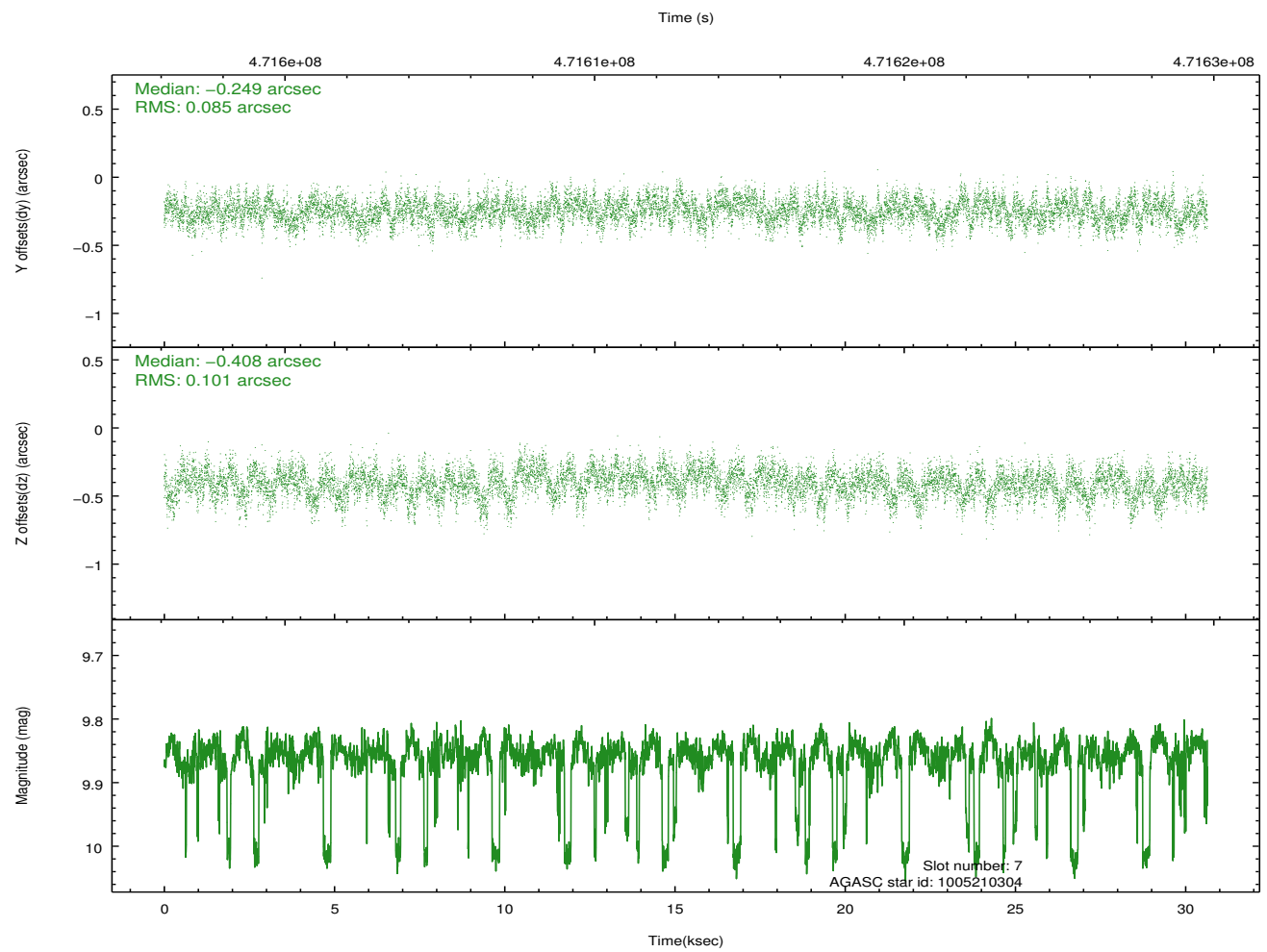
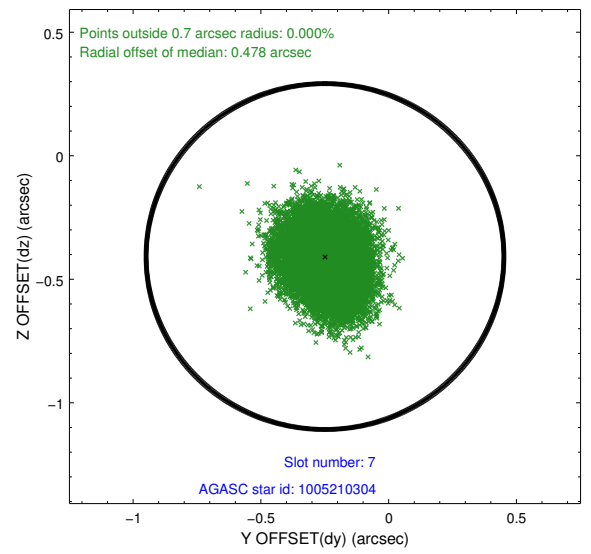
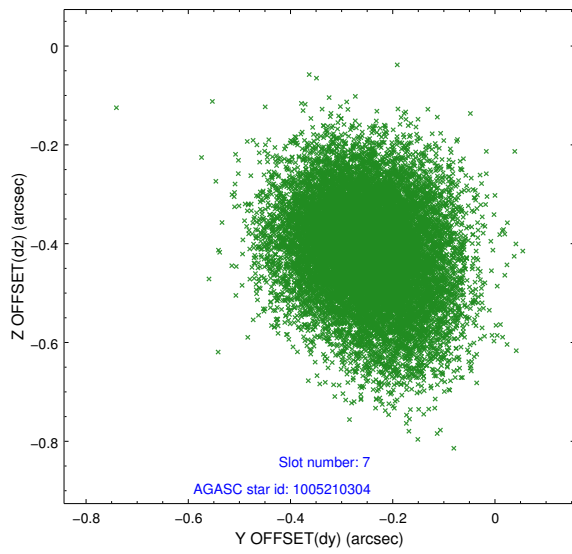
2.4.3 Slot 5



2.4.4 Slot 6

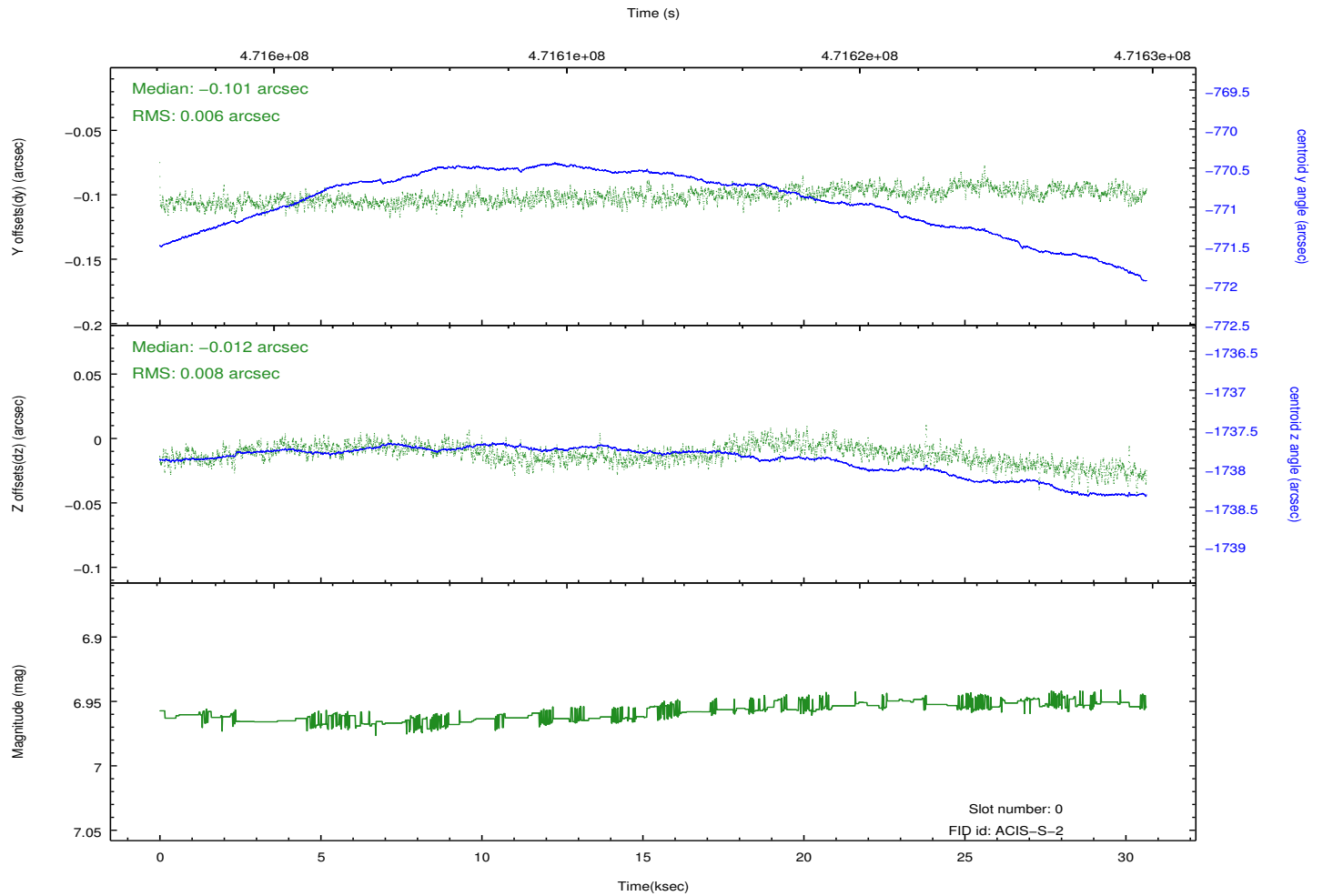
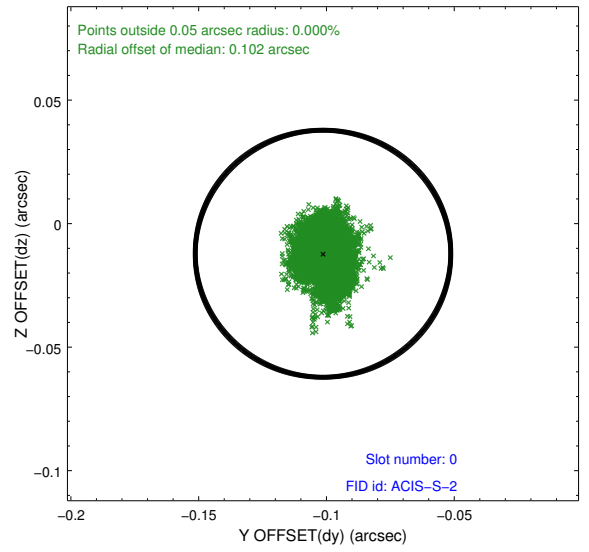
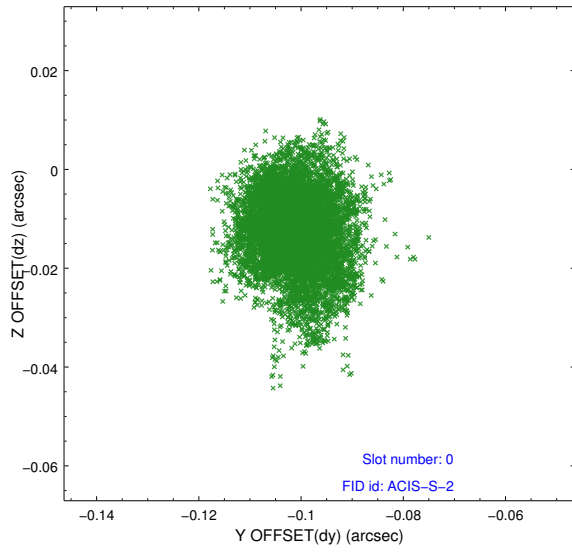


2.4.5 Slot 7

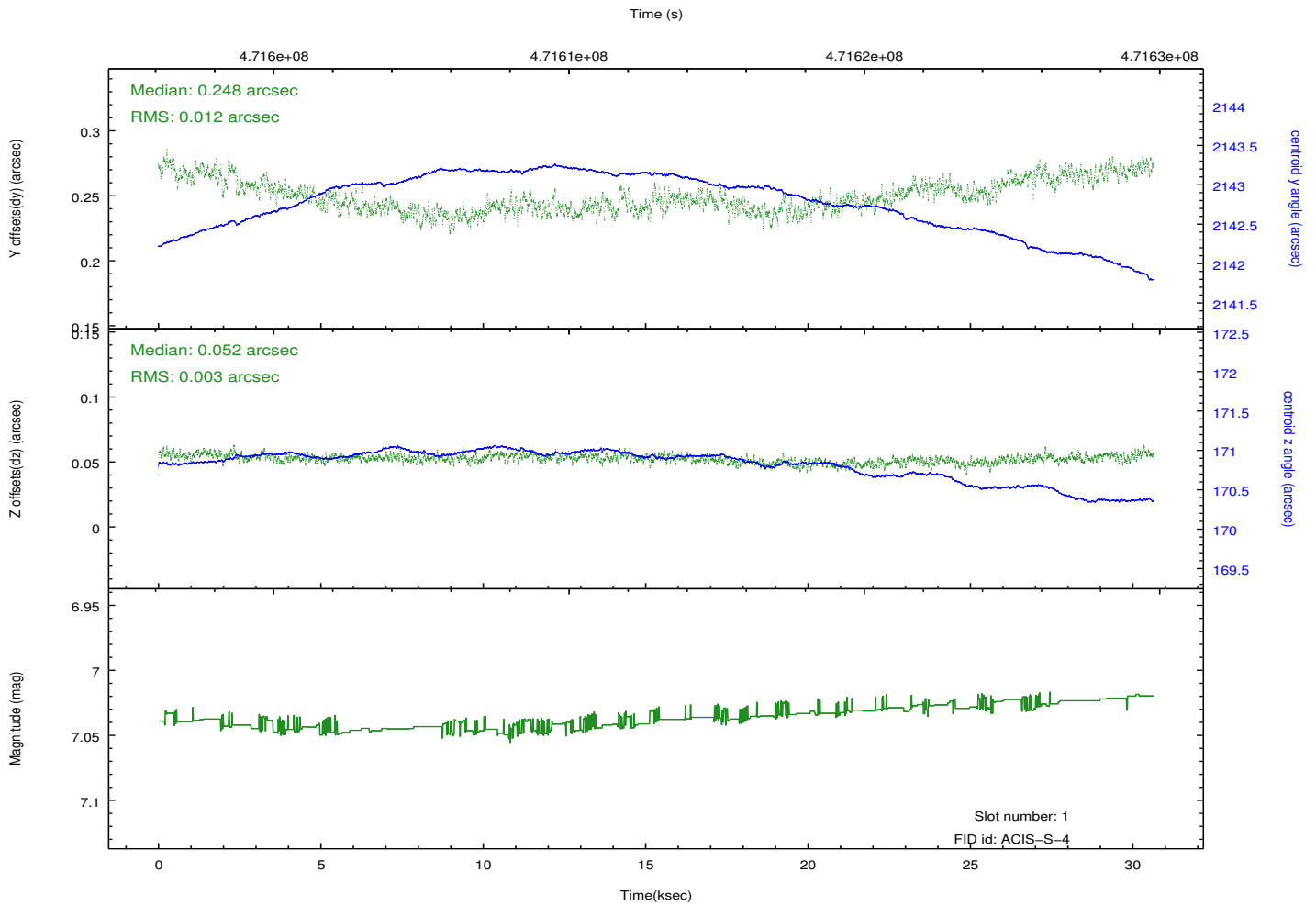
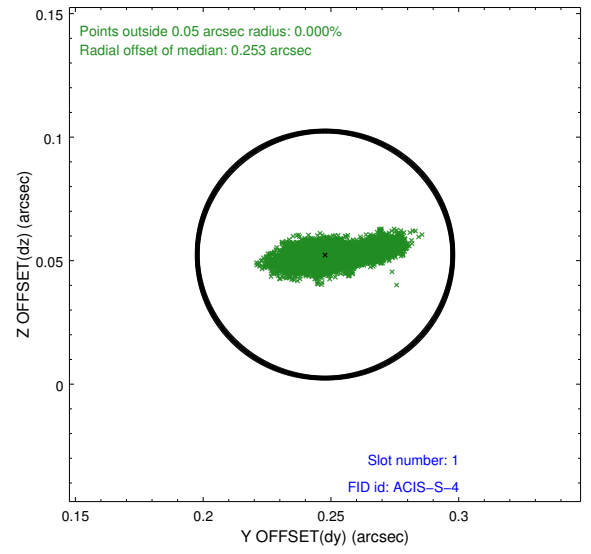
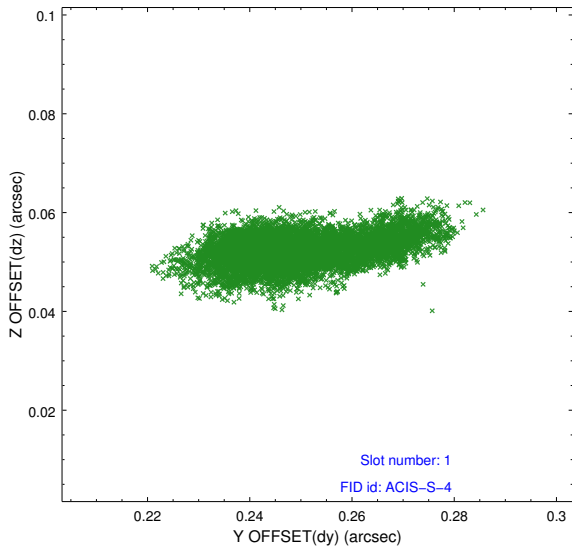


2.5 FID Slots

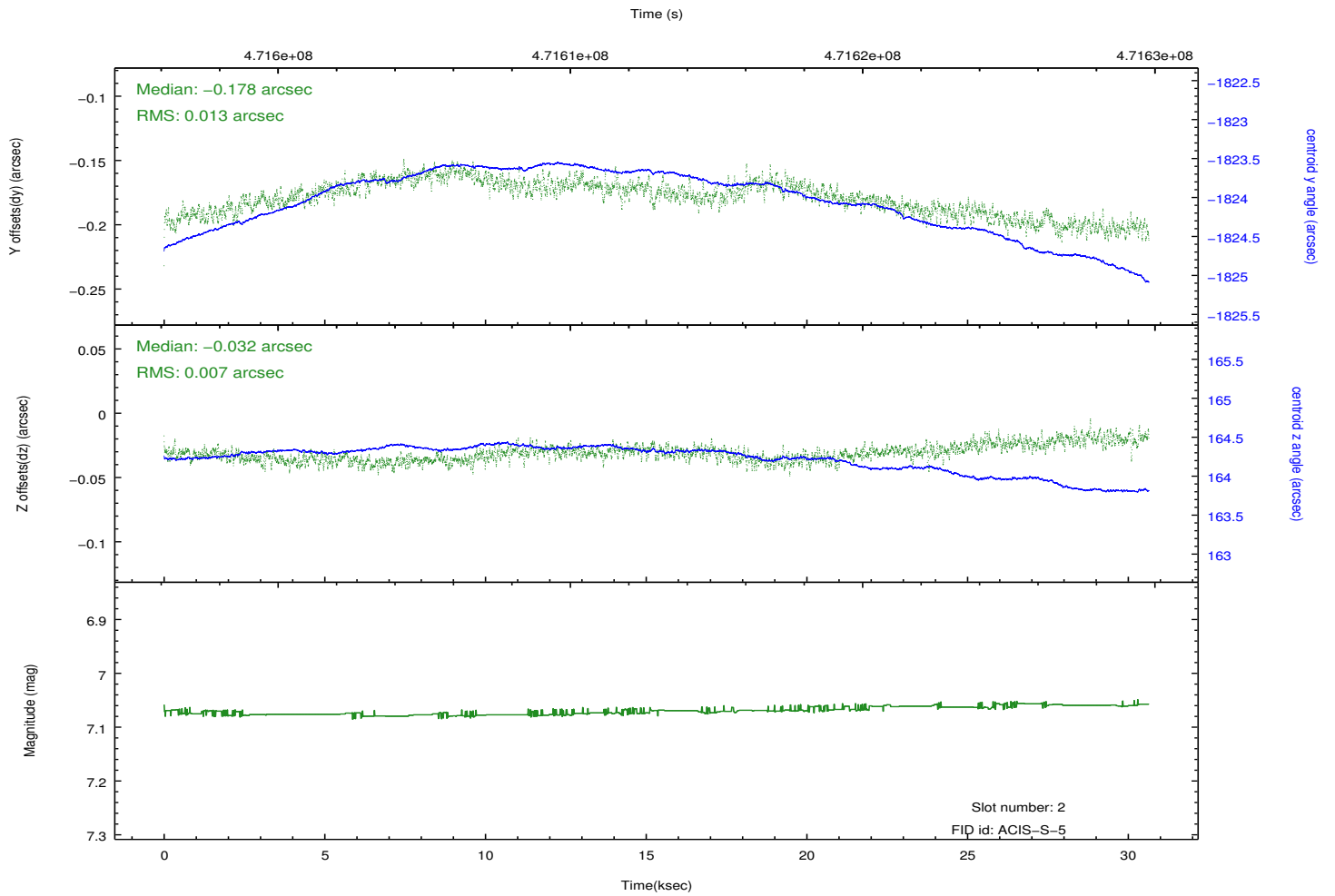
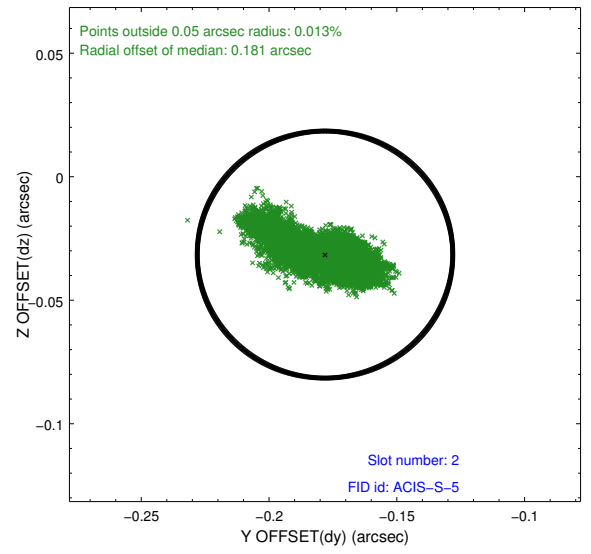
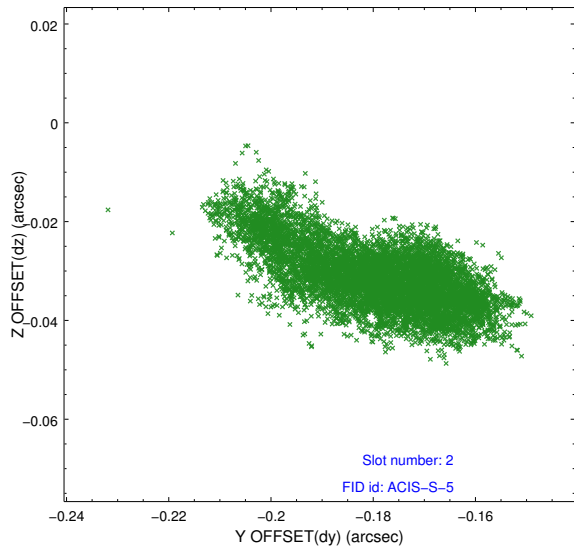
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.64125

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.