

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14200 - L2 Version 2
Chandra X-Ray Center

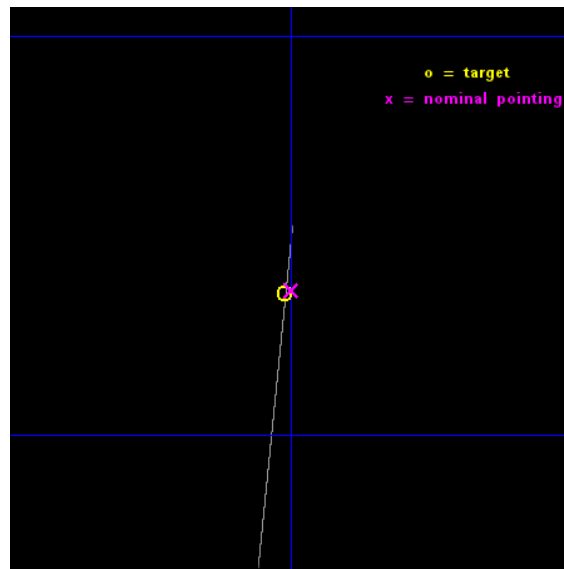
L2 Processing Date : Nov 29 2014

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1 Front

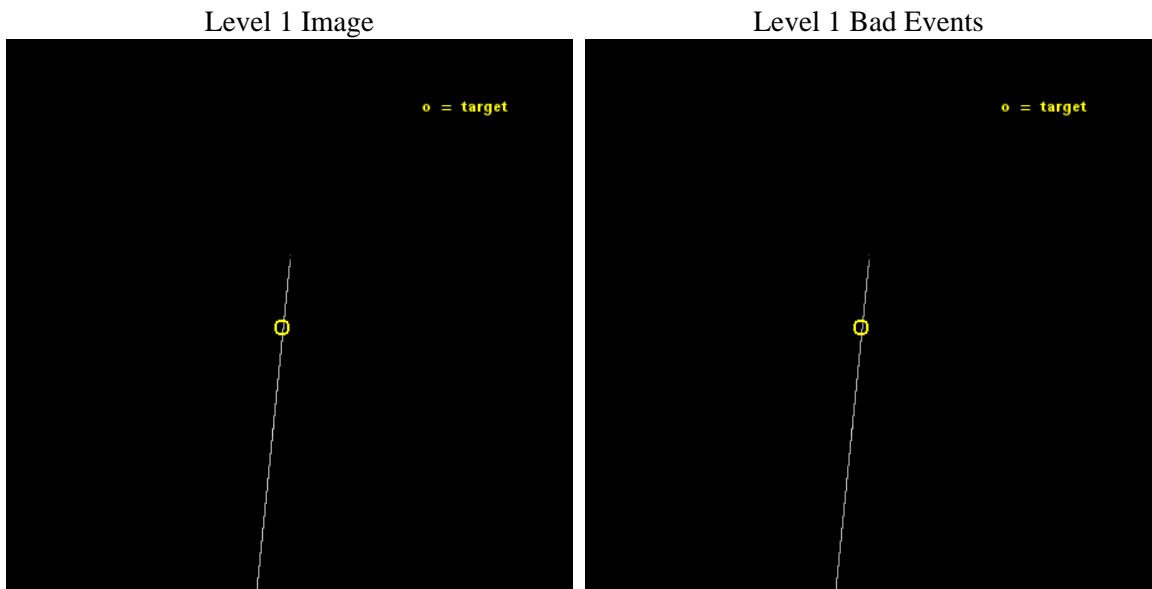
seq_num	501777	Sequence number
obs_id	14200	Observation id
title	Measuring the Spin-Down and Dipole Magnetic Field of the CCO Pulsar 1E 1207.4-5209	Proposal title
observer	Prof. Jules Halpern	Principal investigator
object	1E1207.4-5209	Source name
ra_targ	182.50375	Observer's specified target RA [deg]
dec_targ	-52.441222	Observer's specified target Dec [deg]
ra_nom	182.49932098791	Nominal RA [deg]
dec_nom	-52.439876355345	Nominal Dec [deg]
roll_nom	95.956493092739	Nominal Roll [deg]
revision	2	Processing version of data
ontime	31177.25	Sum of GTIs [s]
livetime	31055.463867188	Livetime [s]
ontime7	31177.25	Sum of GTIs [s]
l2events	108628	Number of level 2 events



2 OBI

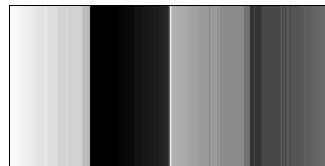
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	31177.25	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	31177.25	Sum of GTIs [s]
date	2014-11-30T06:06:02	Date and time of file creation	l1events	330951	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

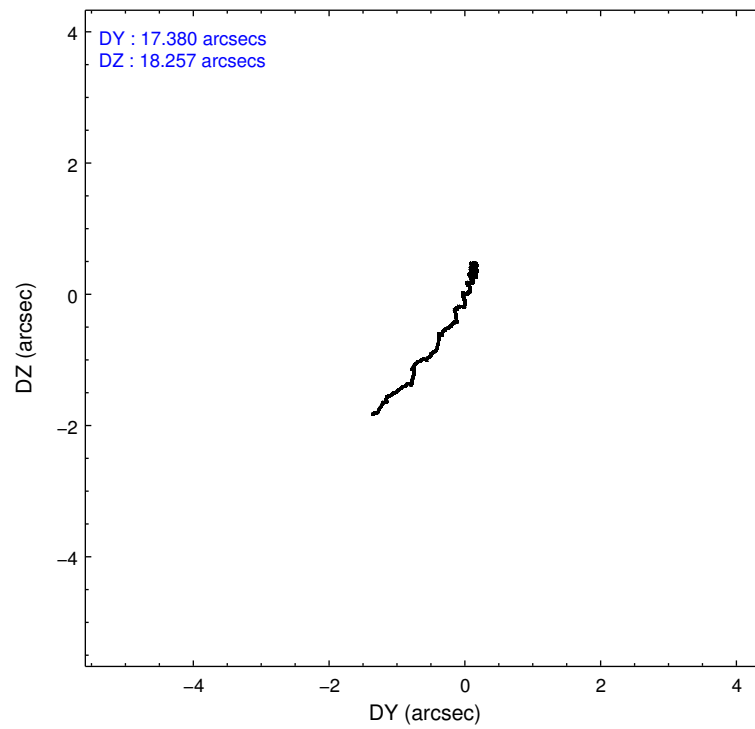
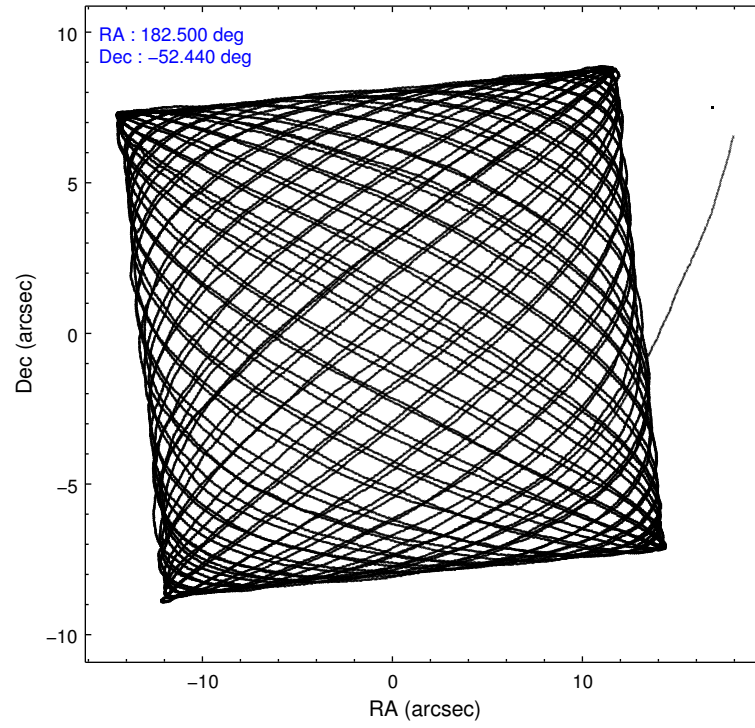
	ccd 7
level 1 events	330951
rejected events	217930
rejected %	65%

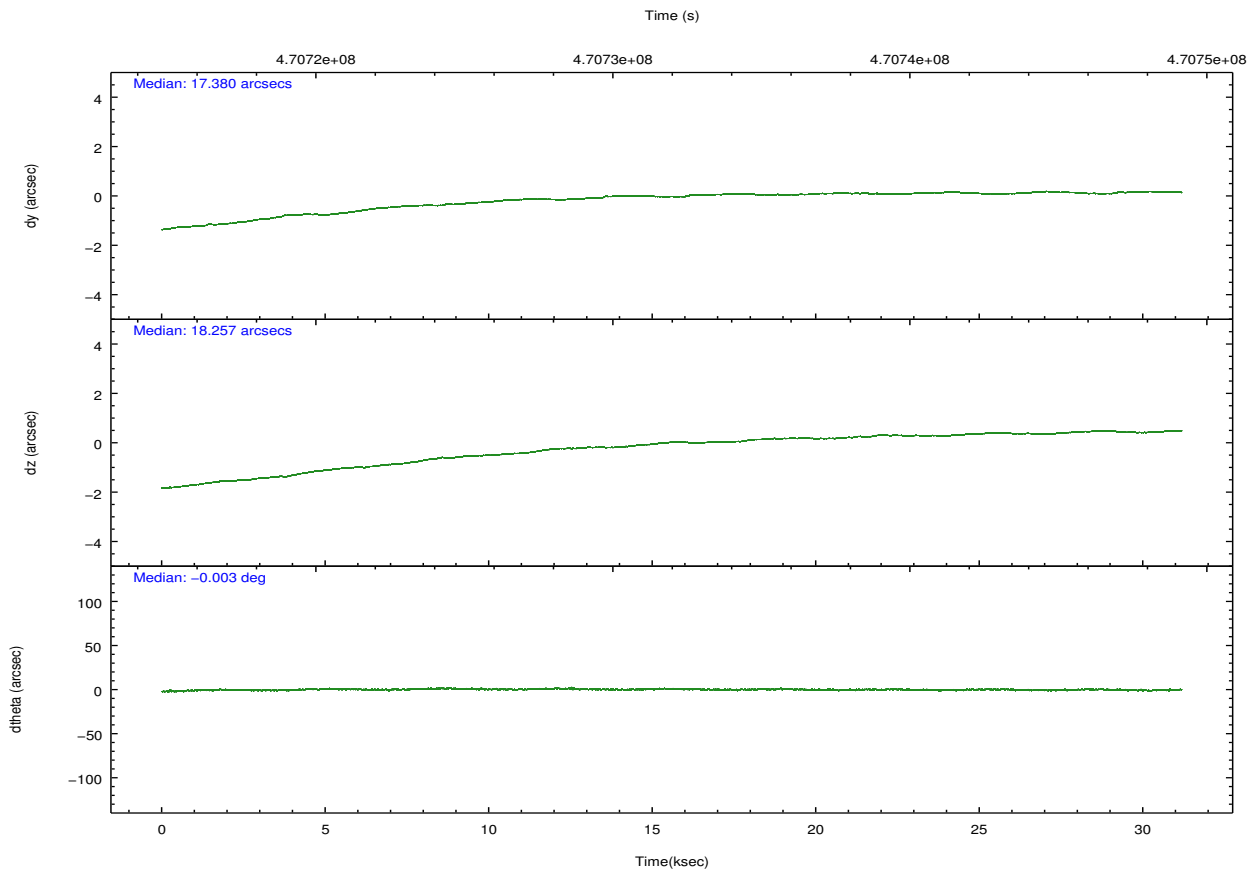
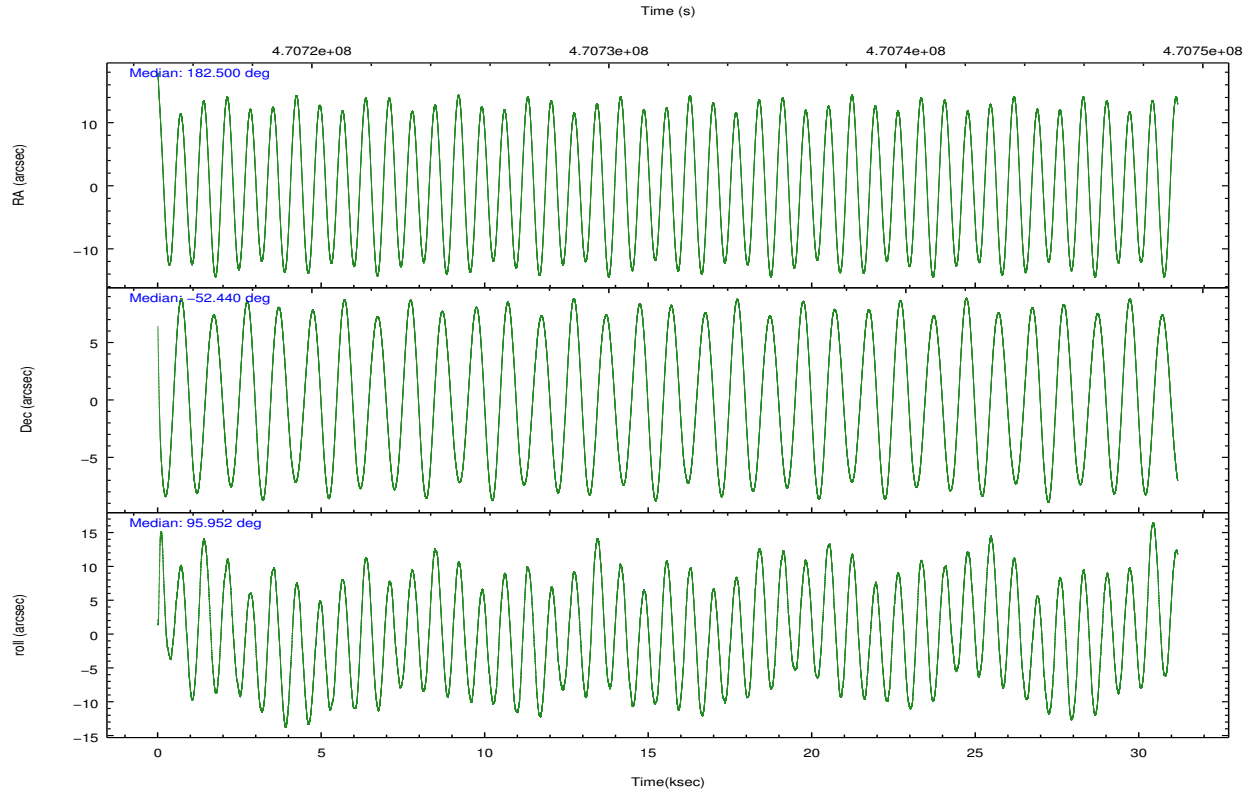
	ccd 7
grade 0 events	11417
	3%
grade 1 events	268
	0%
grade 2 events	30654
	9%
grade 3 events	6552
	1%
grade 4 events	6421
	1%
grade 5 events	20896
	6%
grade 6 events	58172
	17%
grade 7 events	196571
	59%

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	182.526160	182.4993209879114	Subarray requested	NONE	NONE
[deg] Pointing Dec	-52.461773	-52.43987635534513	Alternating exposures requested	N	N
[deg] Pointing Roll	95.821157	95.95649309273878	[s] Primary exposure time	0.000000	0
[s] Window start time (MET)	468115267.184000	468115267.184000			
[s] Window stop time (MET)	473385607.184000	473385607.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	470716574.184000	470715674.1975			
Observation start date	2012-12-01T02:35:07	2012-12-01T02:21:14			
[s] Observation end time (MET)	470747574.184000	470748274.32425			
Observation end date	2012-12-01T11:11:47	2012-12-01T11:24:34			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





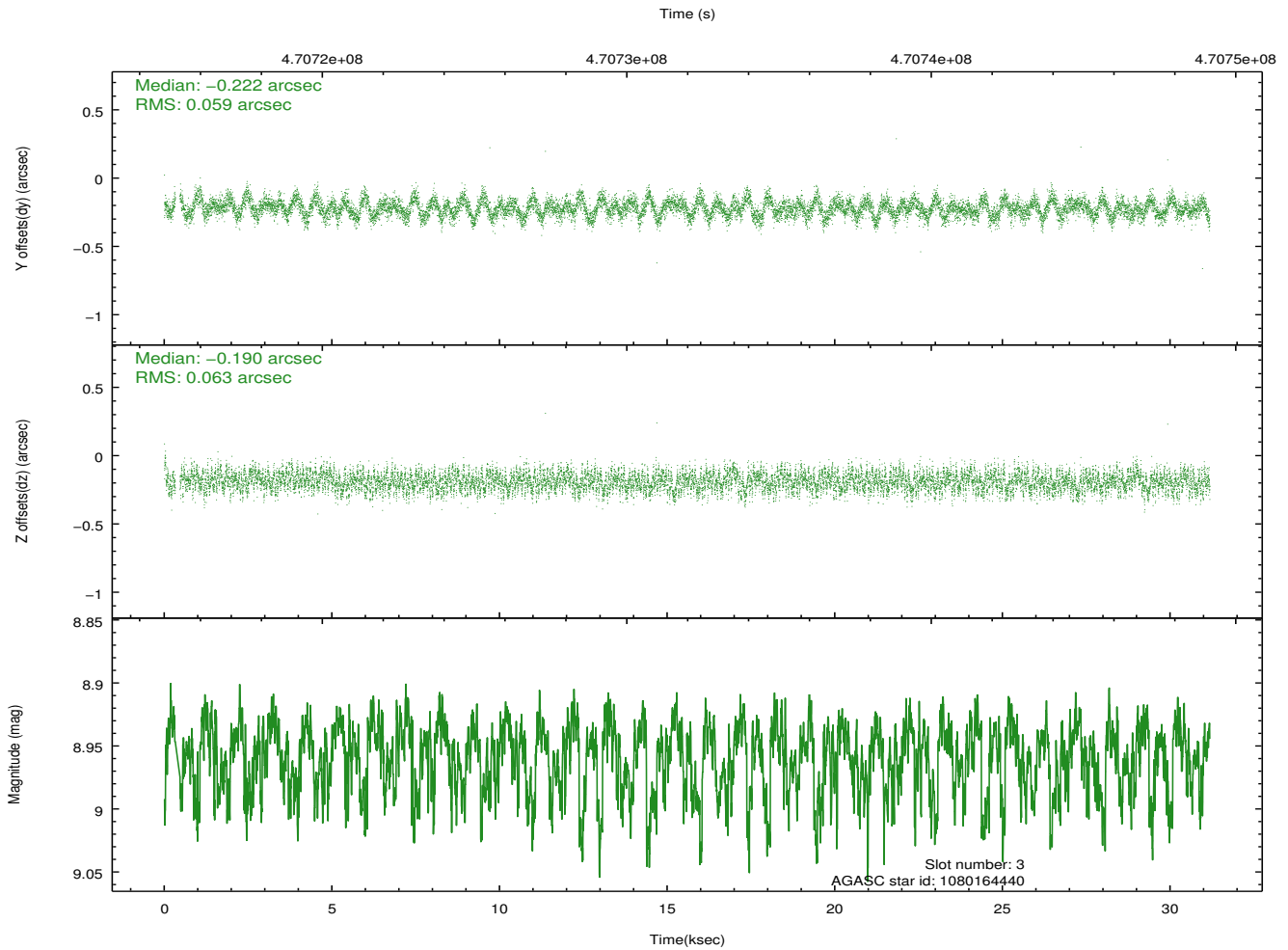
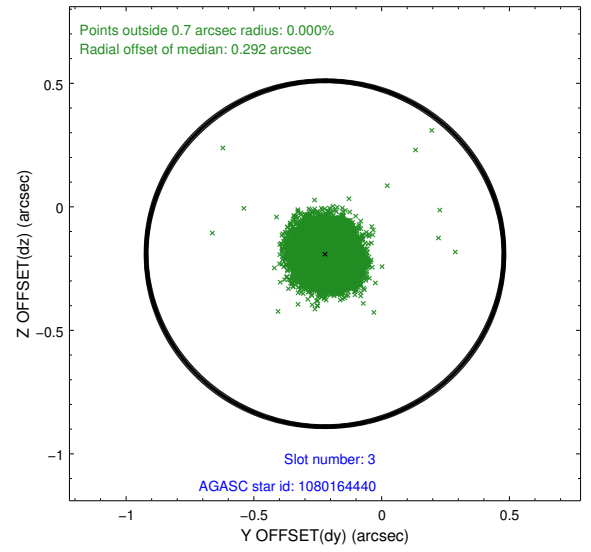
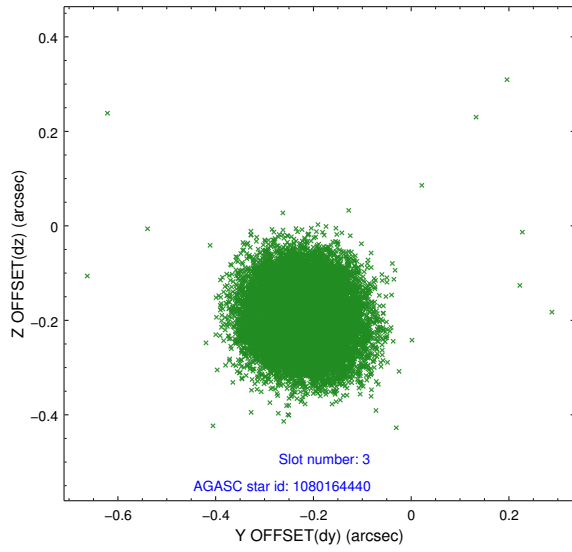
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	7606	-0.081	-0.040	0.013	0.034	0.000000	0.000000	-770.31	-1739.42
1	FID		ACIS-S-4	7.00	7606	0.205	0.049	0.014	0.025	0.000000	0.000000	2143.25	169.04
2	FID		ACIS-S-5	7.03	7604	-0.157	-0.001	0.014	0.040	0.000000	0.000000	-1823.11	162.79
3	GUIDE	used	1080164440	8.96	15119	-0.222	-0.190	0.093	0.144	181.986340	-52.264623	822.36	1112.01
4	GUIDE	used	1131414168	8.93	15204	0.144	0.200	0.114	0.172	183.224863	-52.915912	-1786.95	-1341.80
5	GUIDE	used	1131423616	8.85	15204	0.073	-0.021	0.082	0.134	182.073492	-52.590429	-363.19	1032.45
6	GUIDE	used	1131424824	9.24	15193	-0.107	-0.240	0.111	0.181	181.758646	-52.547110	-143.98	1703.83
7	GUIDE	used	1131554032	9.51	15094	0.096	0.252	0.194	0.293	183.691785	-52.744006	-1288.22	-2421.34

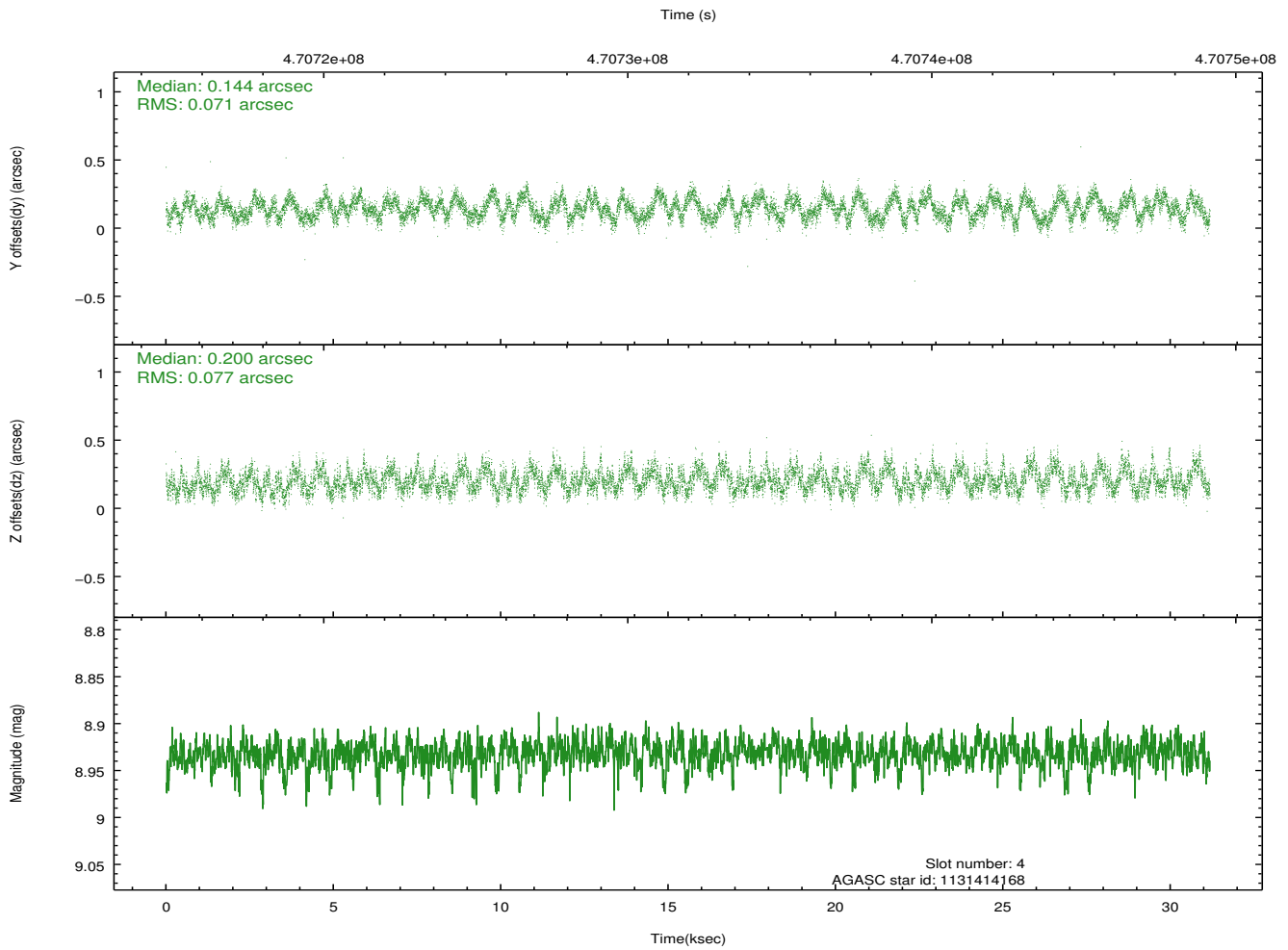
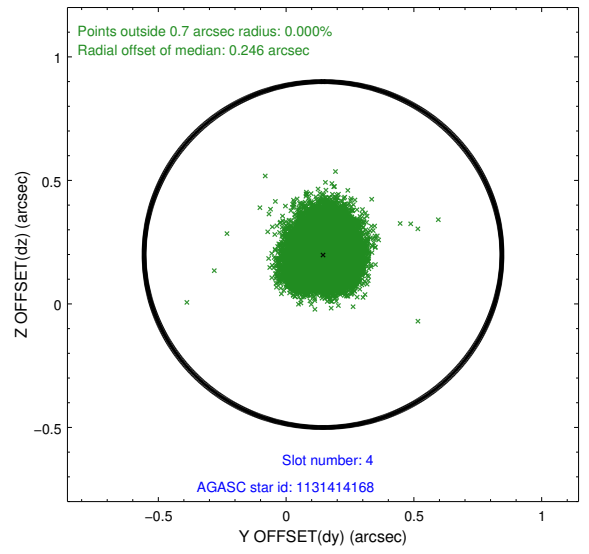
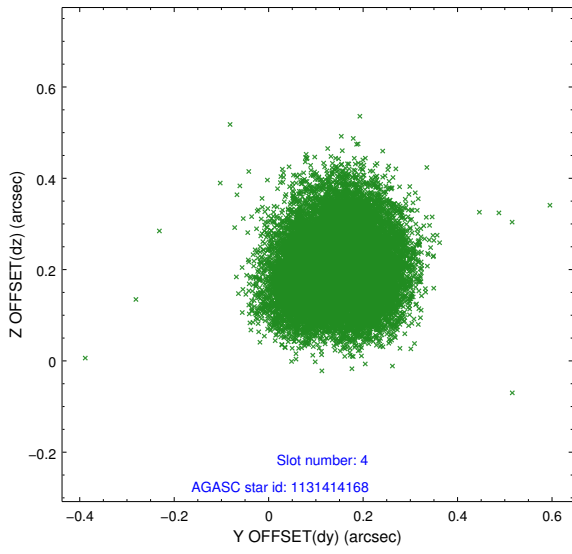
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2.4 Star Slots

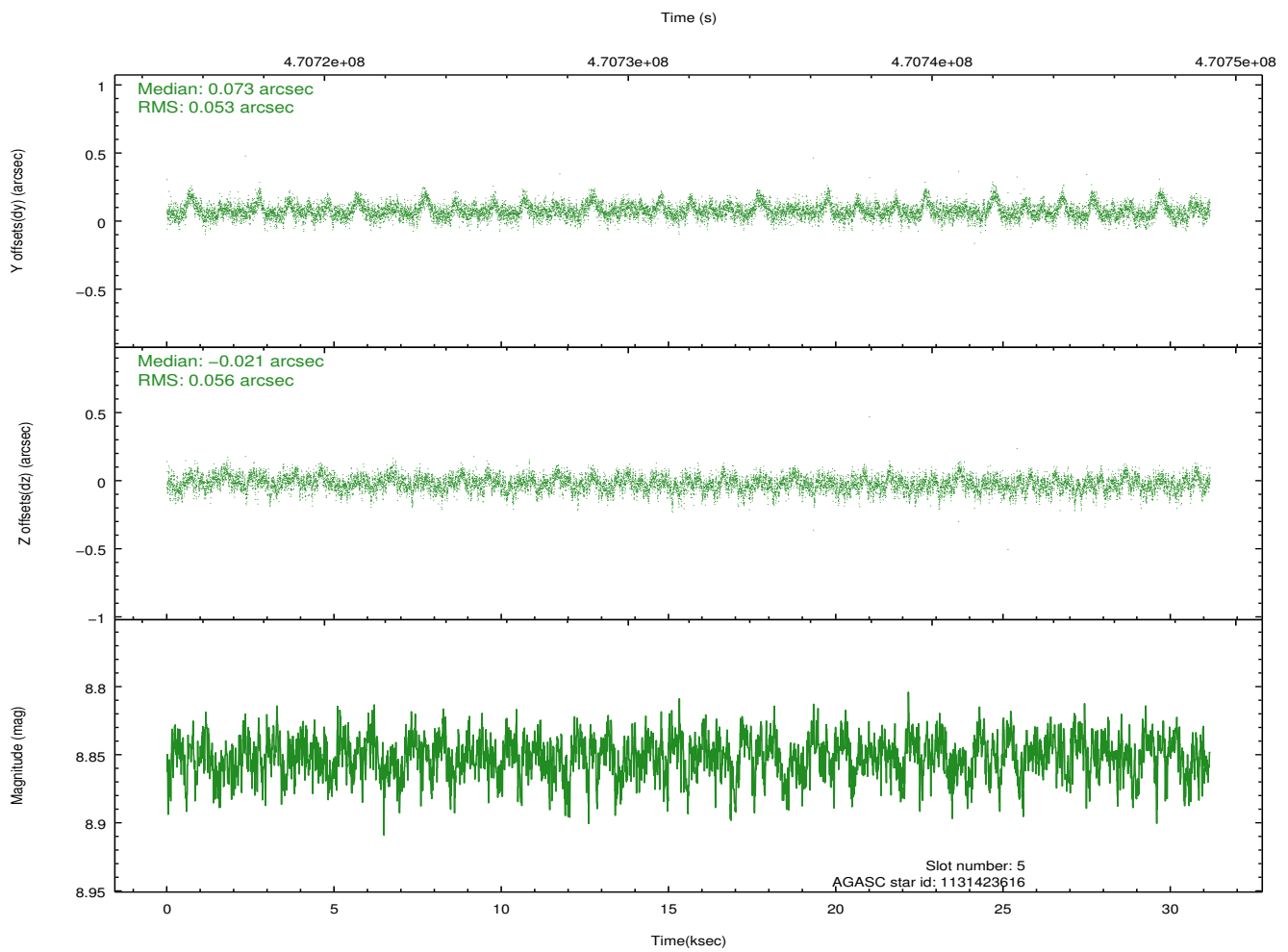
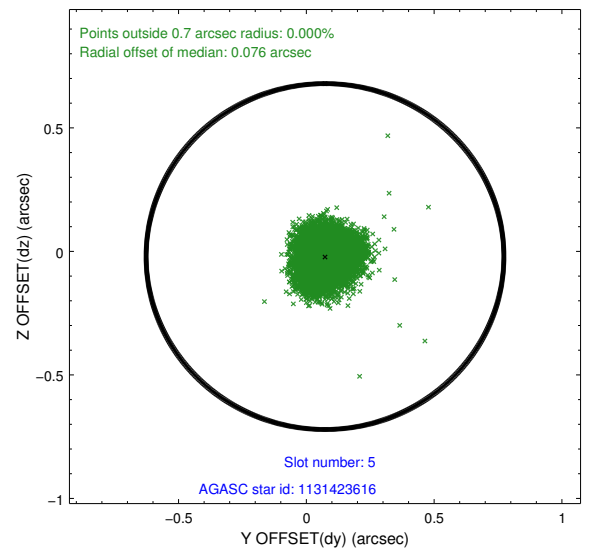
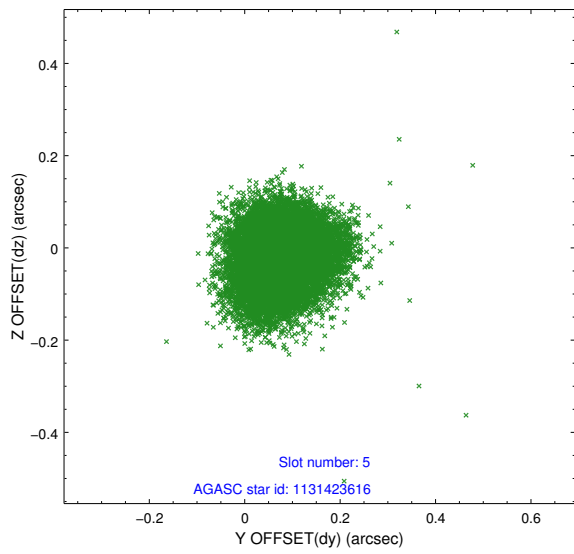
2.4.1 Slot 3



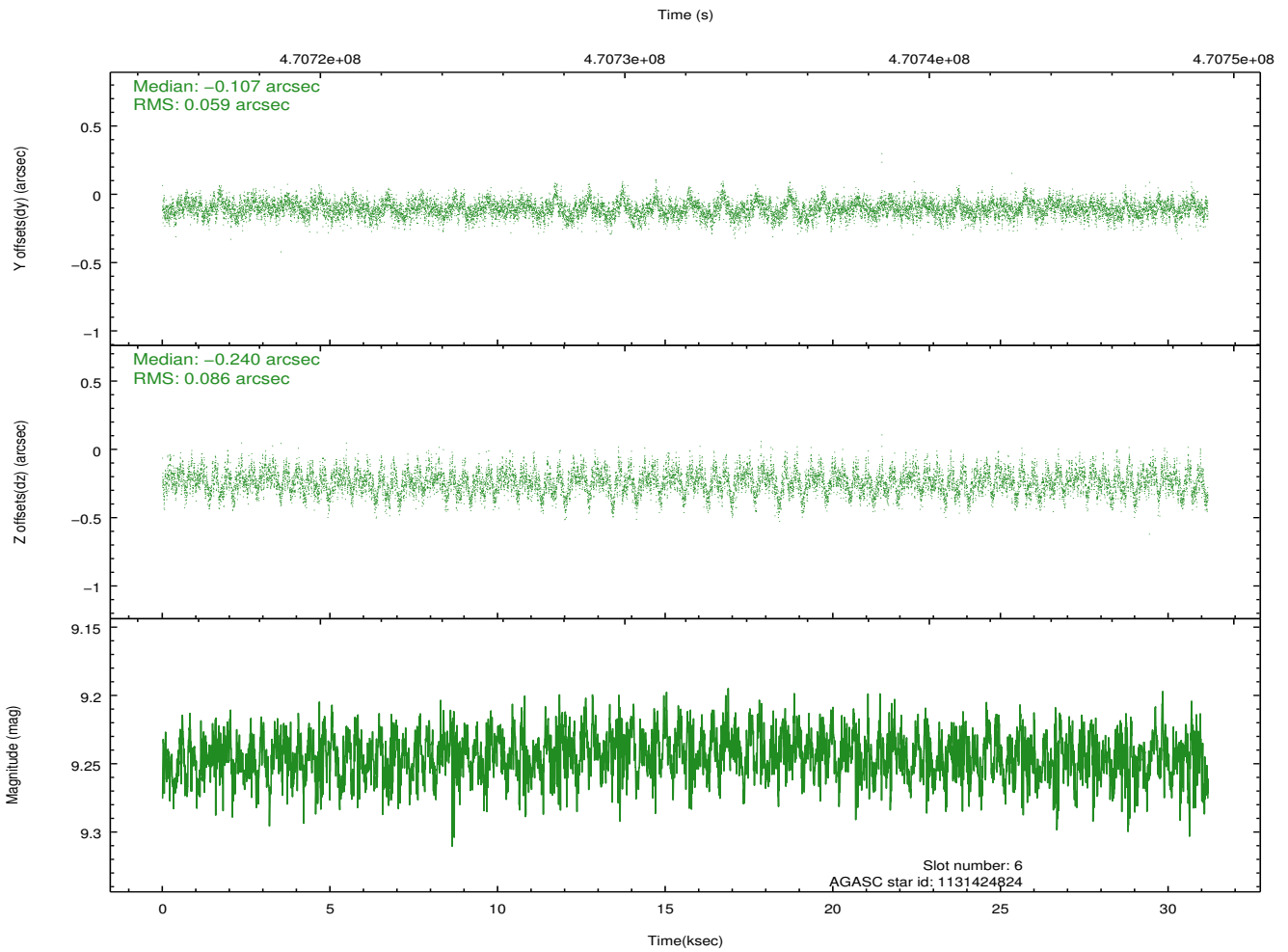
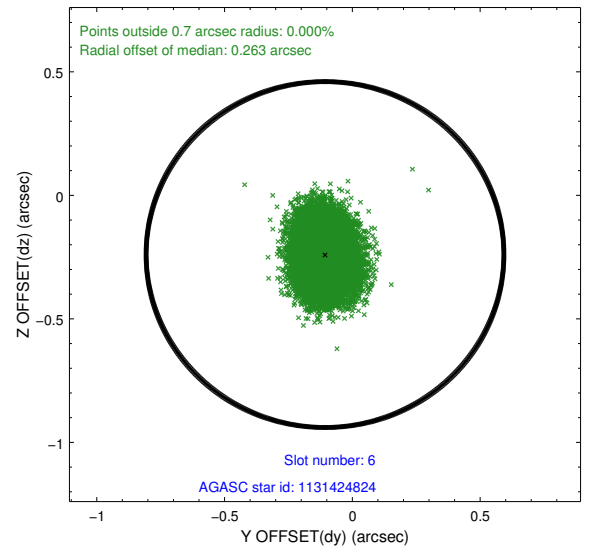
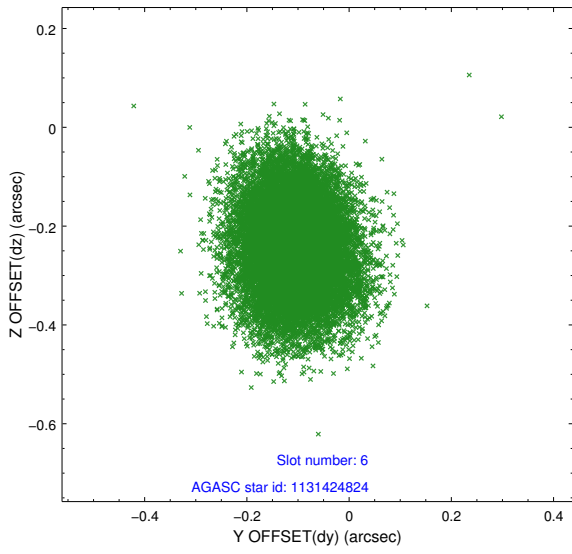
2.4.2 Slot 4



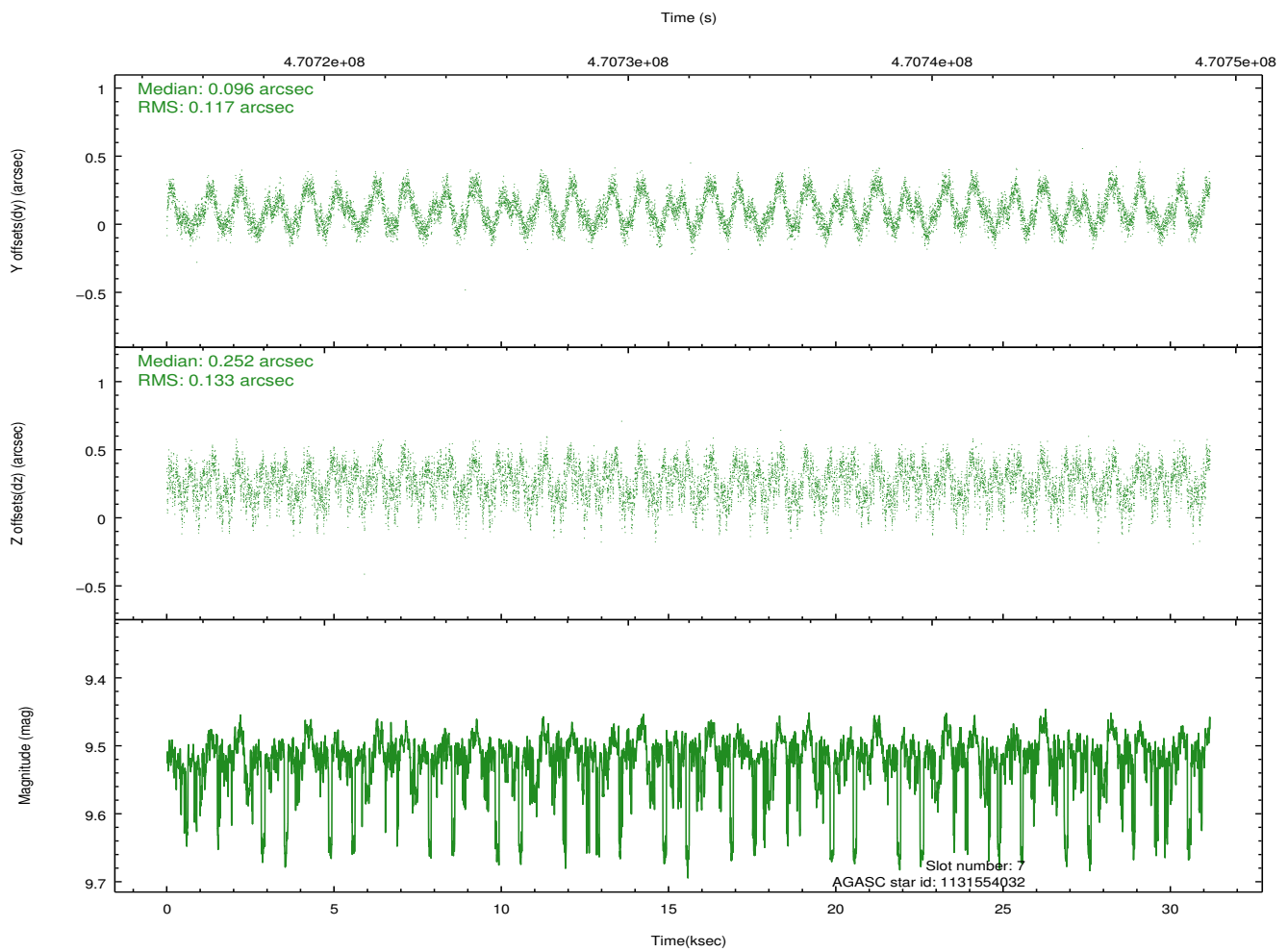
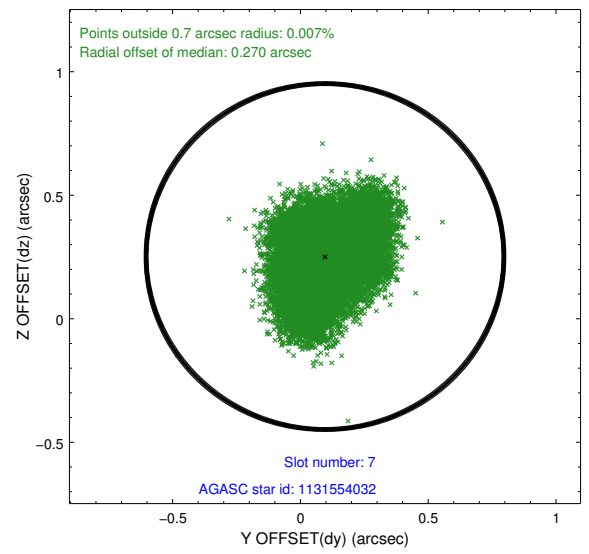
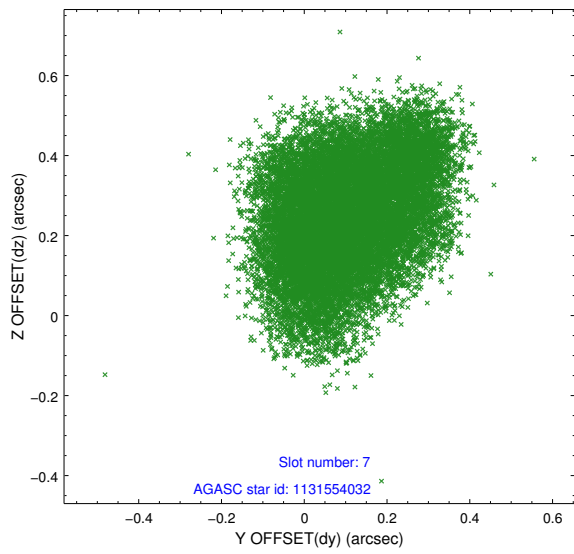
2.4.3 Slot 5



2.4.4 Slot 6

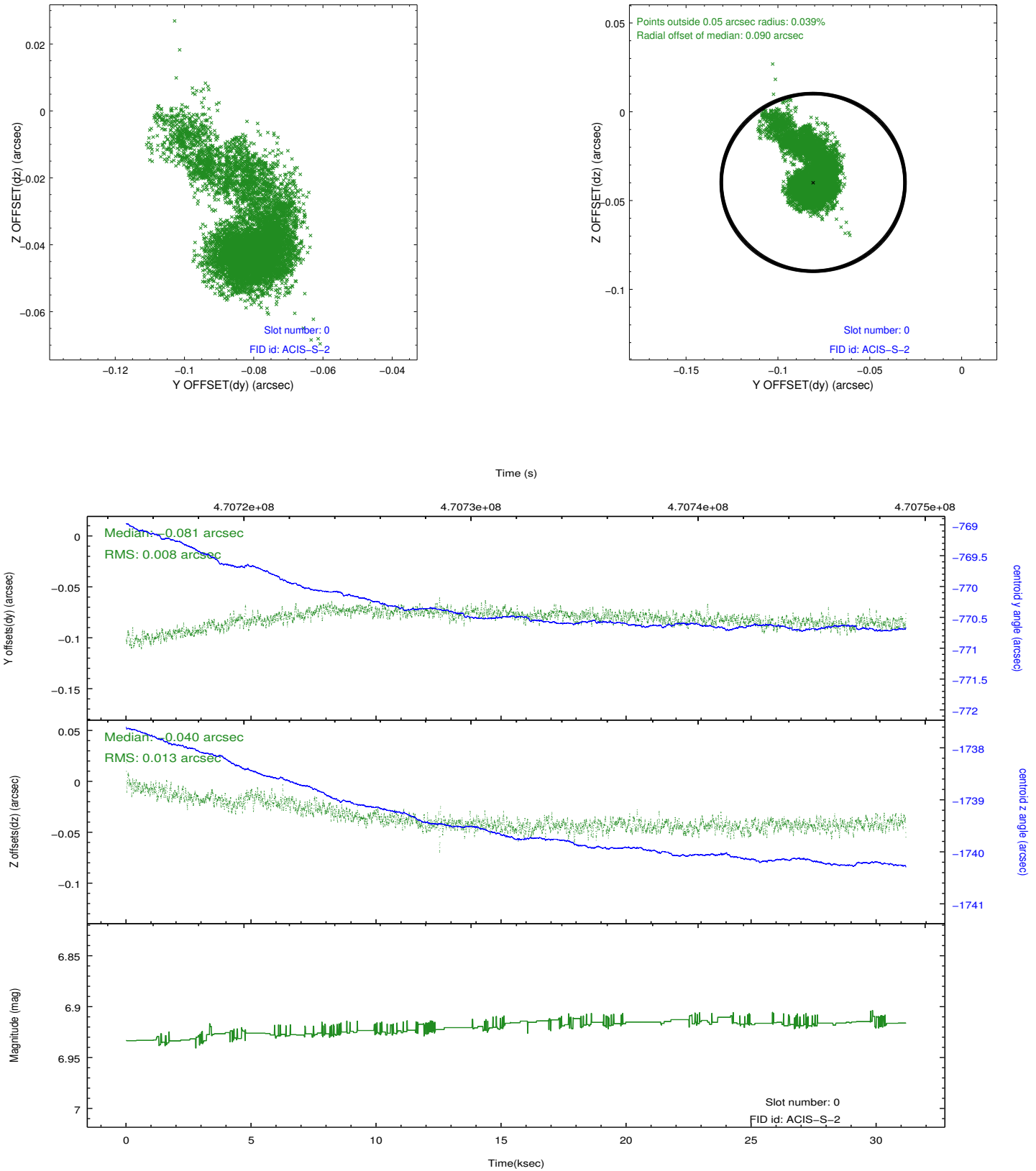


2.4.5 Slot 7

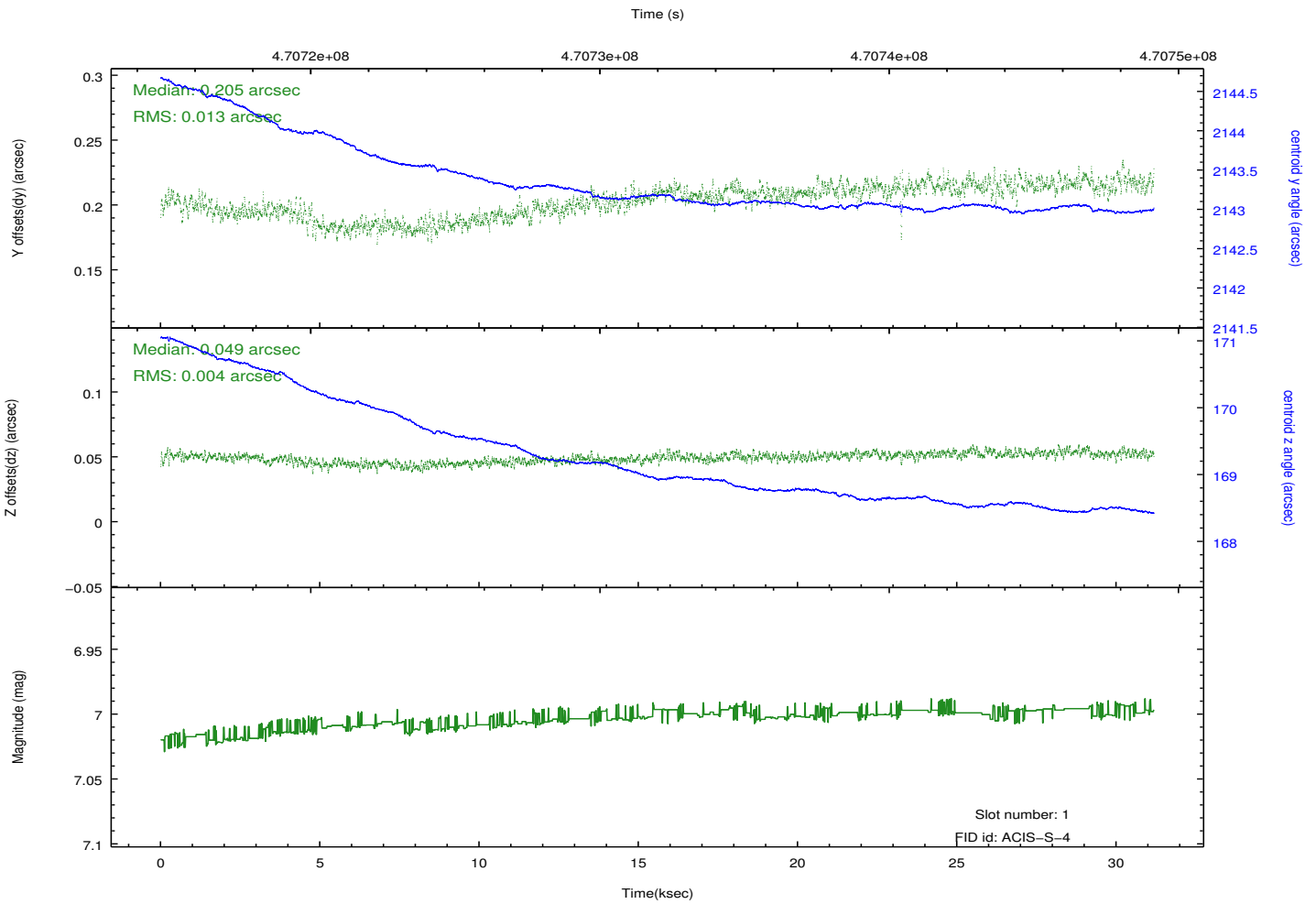
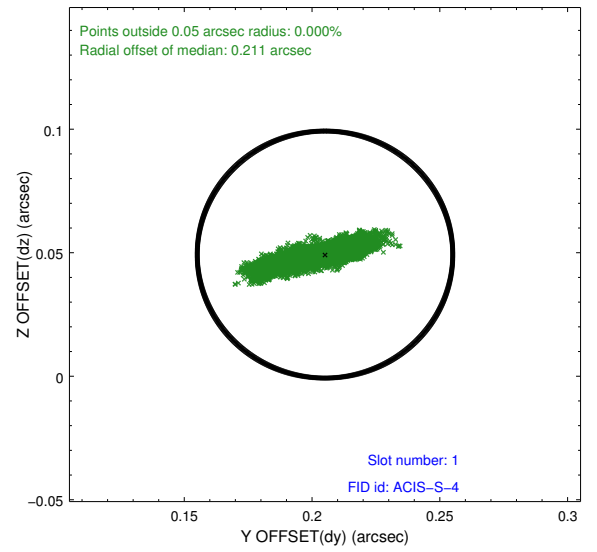
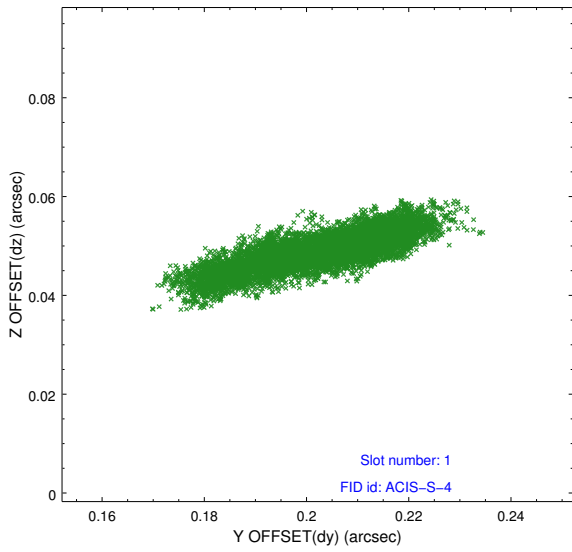


2.5 FID Slots

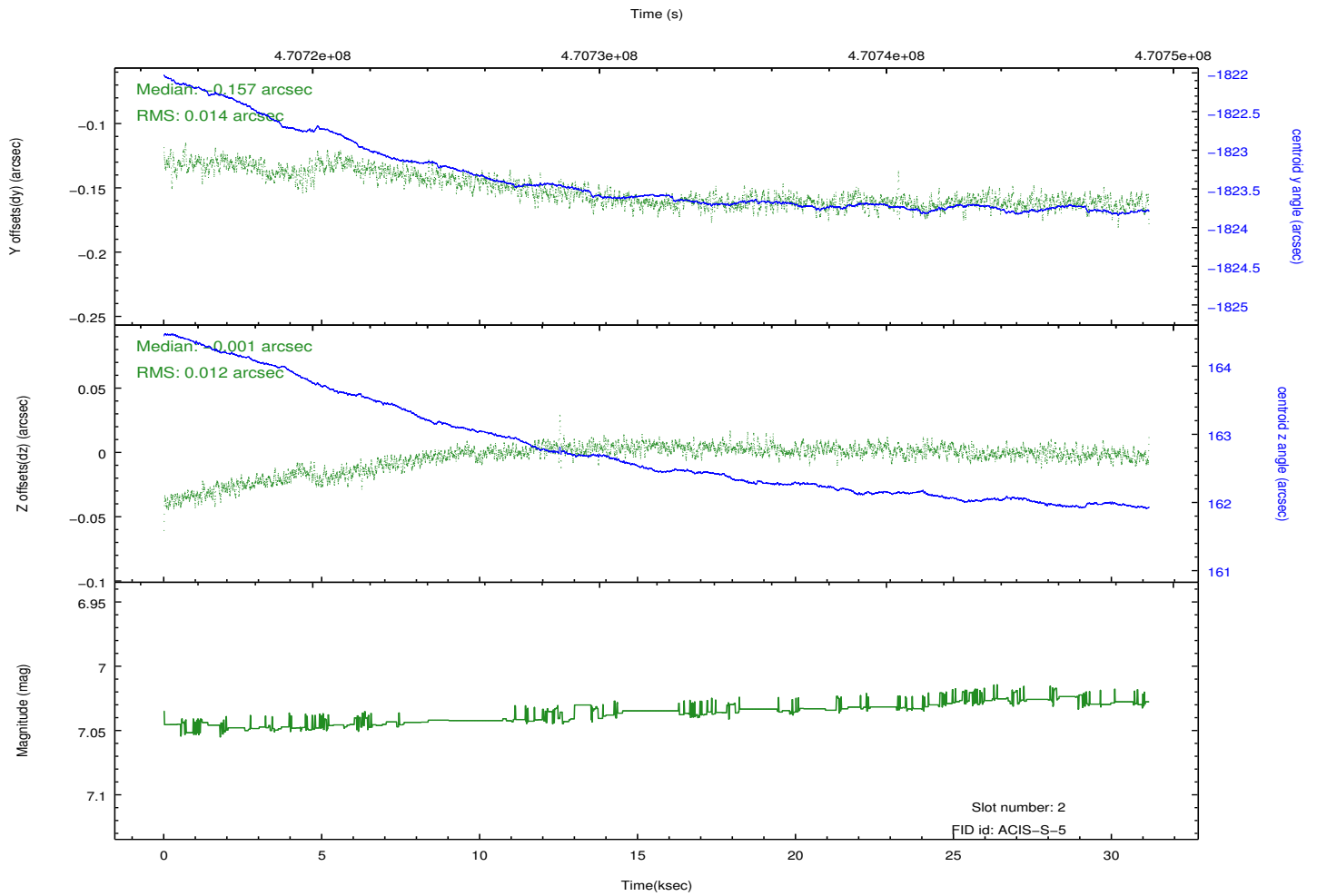
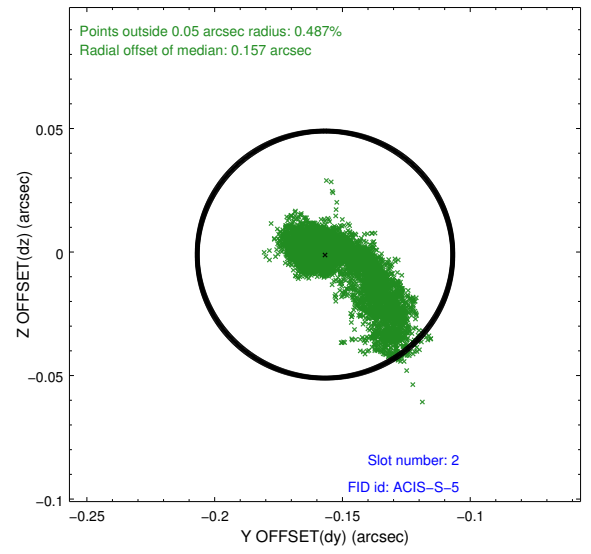
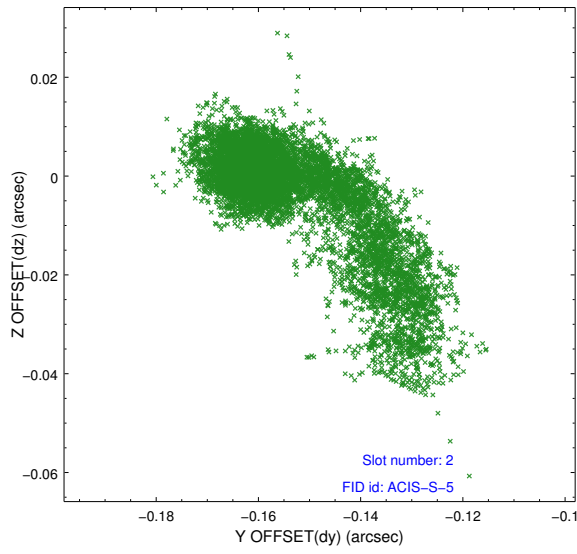
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.17725

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.