

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15464 - L2 Version 2
Chandra X-Ray Center

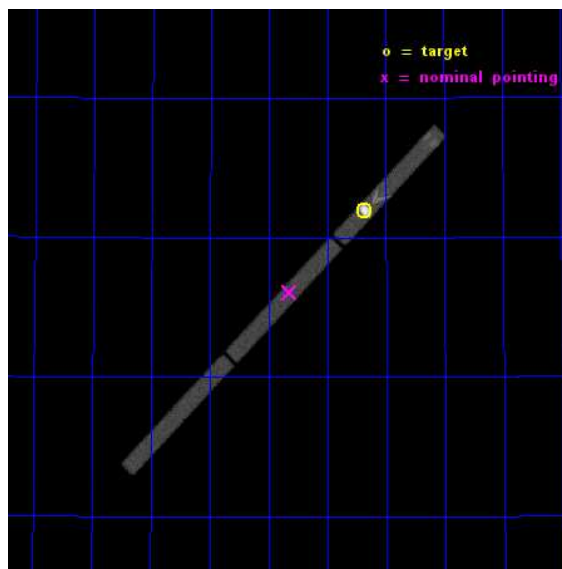
L2 Processing Date : Dec 1 2014

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1 Front

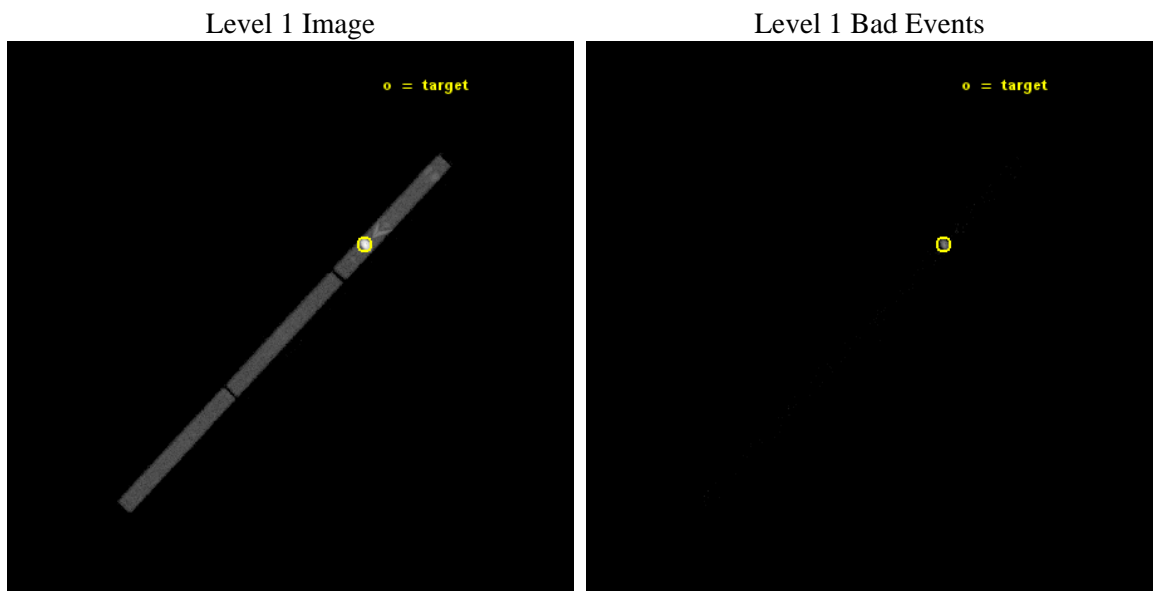
seq_num	291143	Sequence number
obs_id	15464	Observation id
title	AO-14 Calibration Observations of HZ43 to measure the gain accross the HRC-S plate gaps	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.4119652028	Nominal RA [deg]
dec_nom	28.804407884935	Nominal Dec [deg]
roll_nom	133.84106615226	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1296.8813201189	[s]
livetime	998.10081740006	Ontime multiplied by DTCOR
l2events	216400	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	1100.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1296.8813201189	[s]
caldbver	4.6.4	 	l1events	276587	Number of level 1 events
date	2014-12-02T02:25:34	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

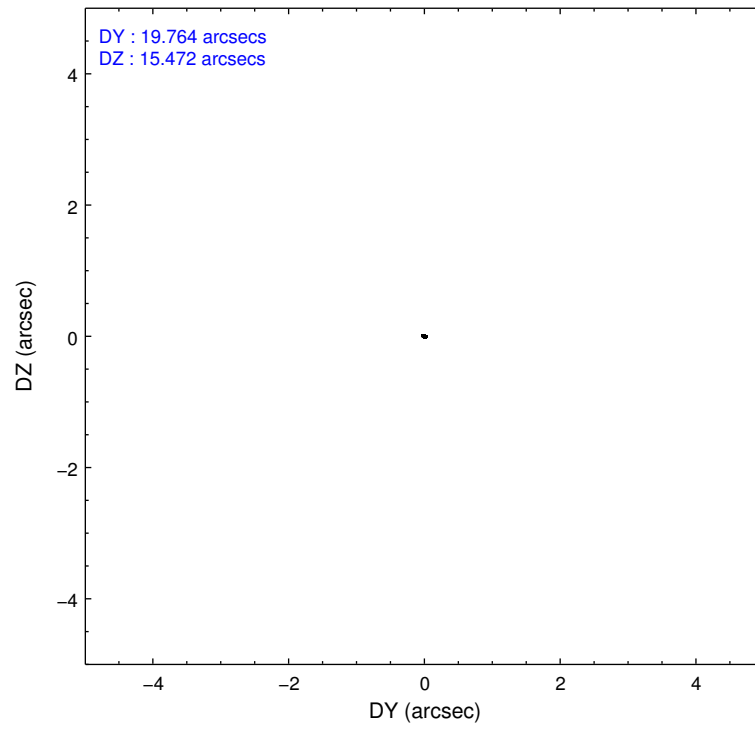
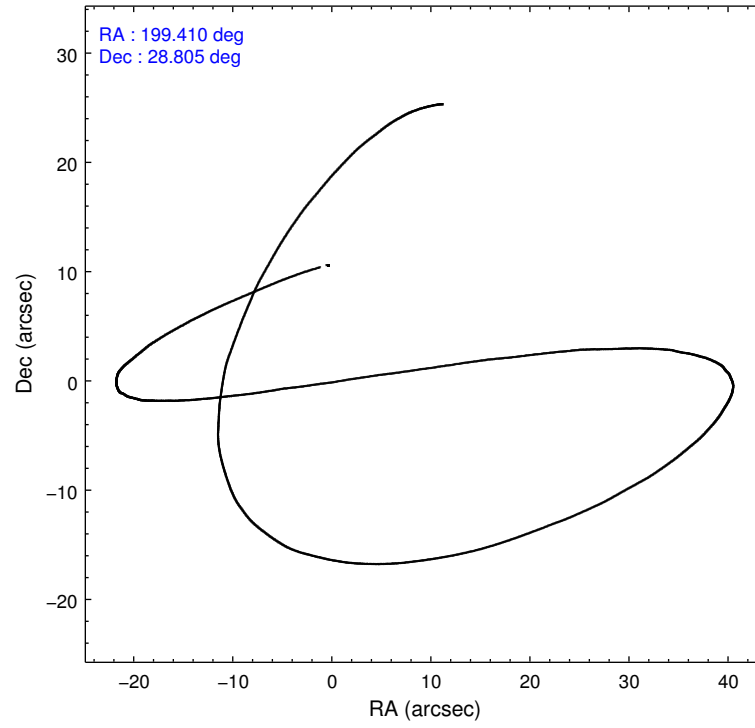
	segment 1	segment 2	segment 3
level 1 events	32052	31377	213158
rejected events	4304	4298	28828
rejected %	13%	13%	13%

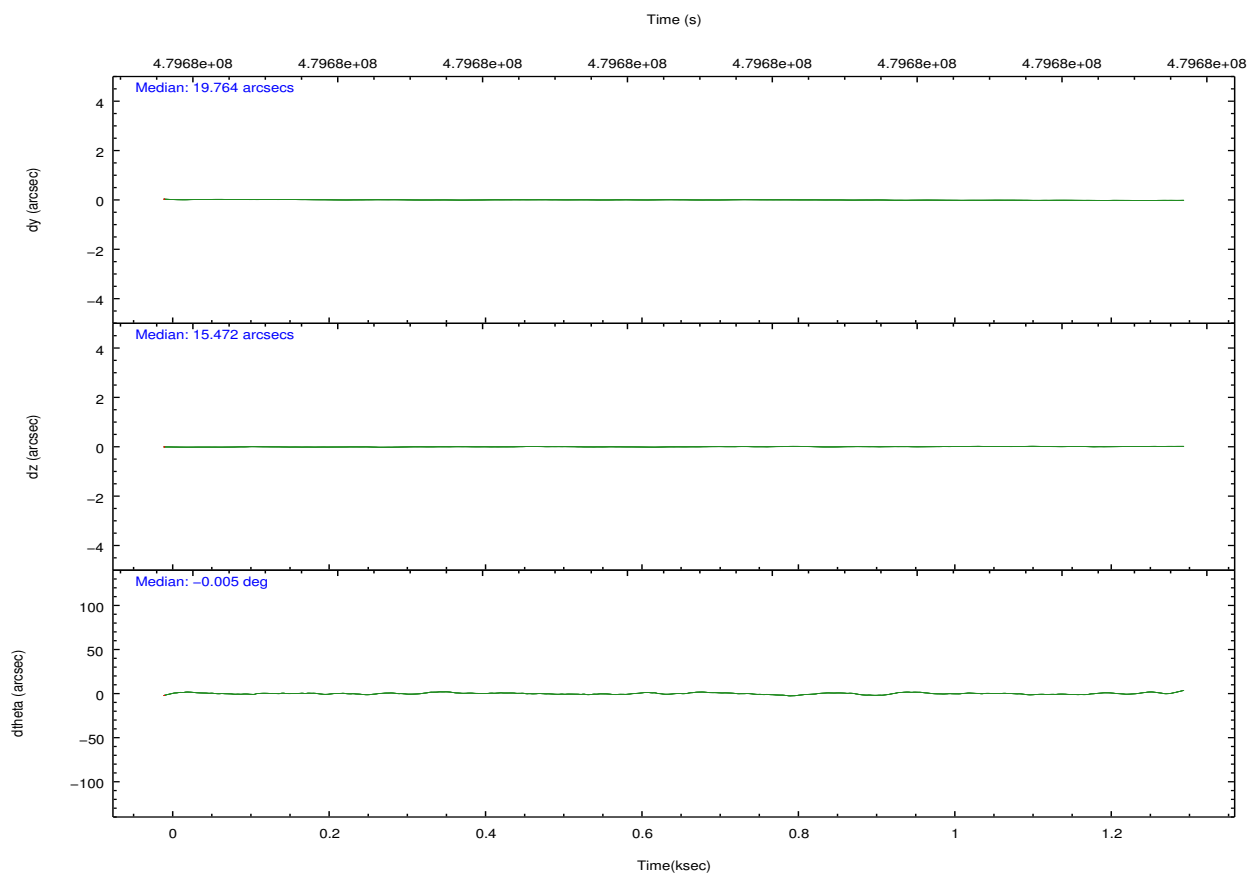
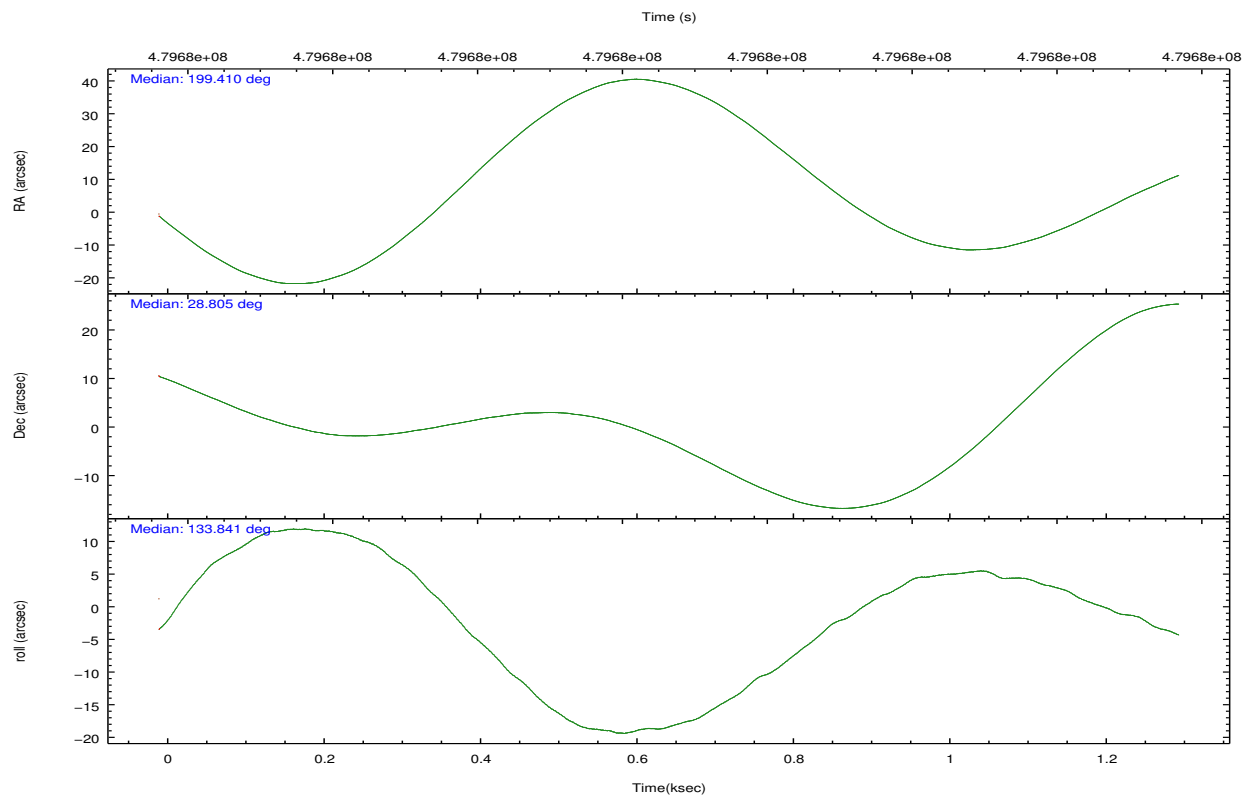
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	199.445160	199.4119652027973
[deg] Pointing Dec	28.797710	28.80440788493473
[deg] Pointing Roll	133.757728	133.8410661522585
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	479677999.184000	479677623.80603
Observation start date	2013-03-14T19:52:12	2013-03-14T19:47:03
[s] Observation end time (MET)	479679099.184000	479679251.50612
Observation end date	2013-03-14T20:10:32	2013-03-14T20:14:11

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



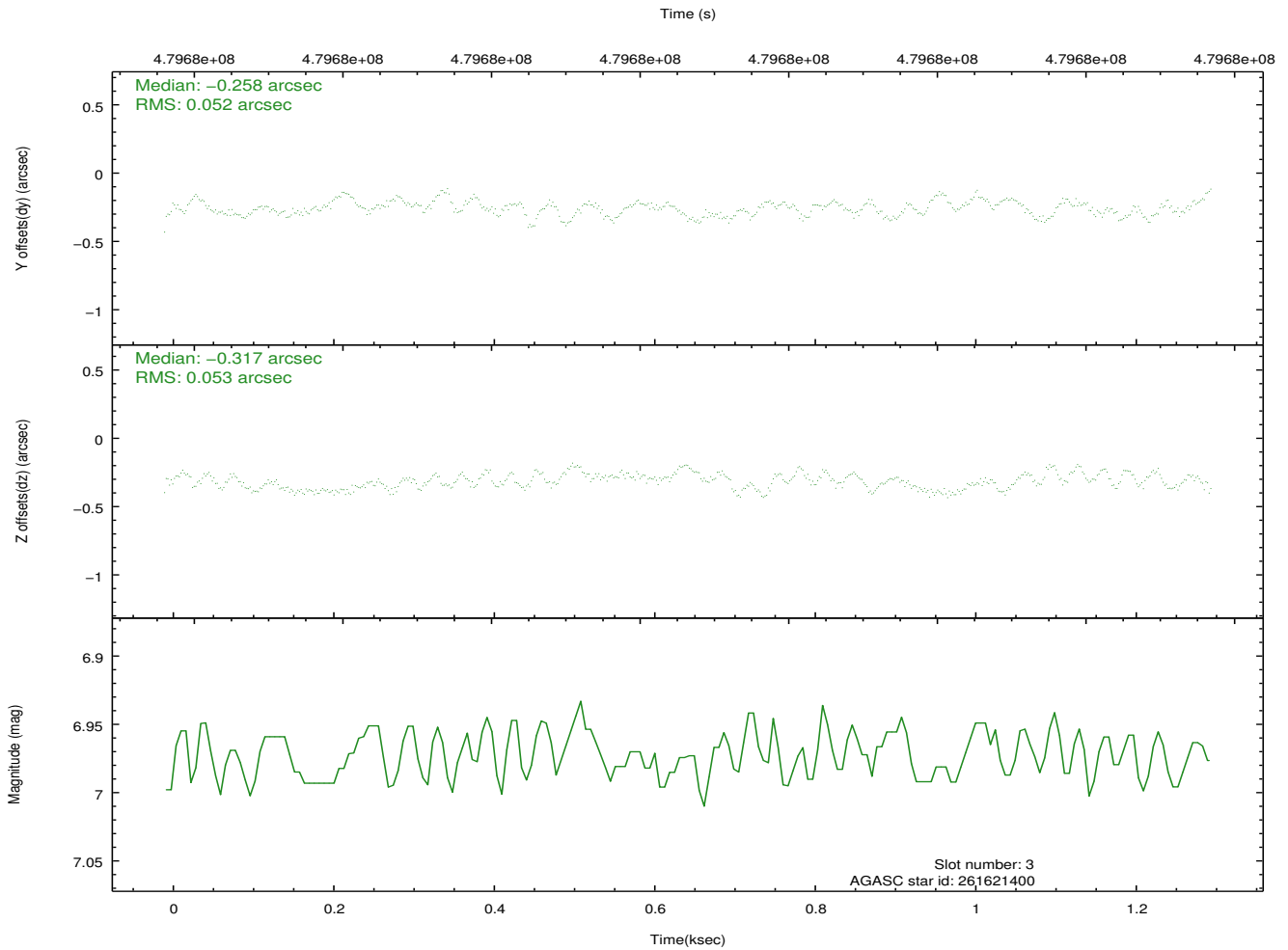
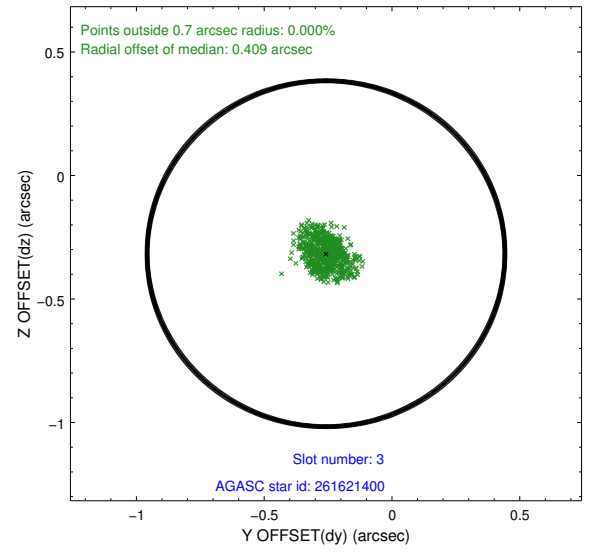
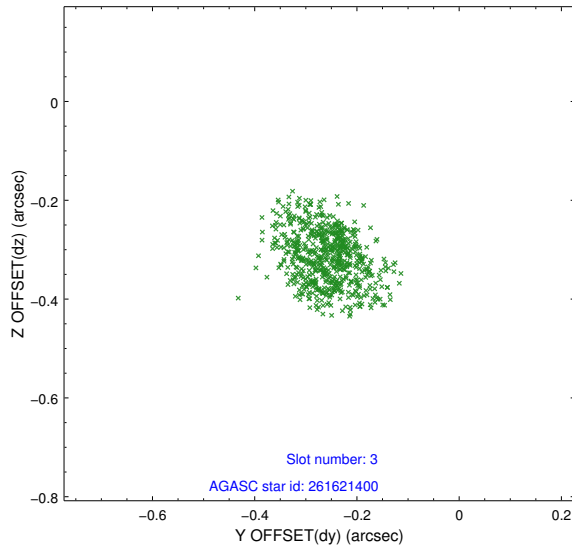


Slot Statistics

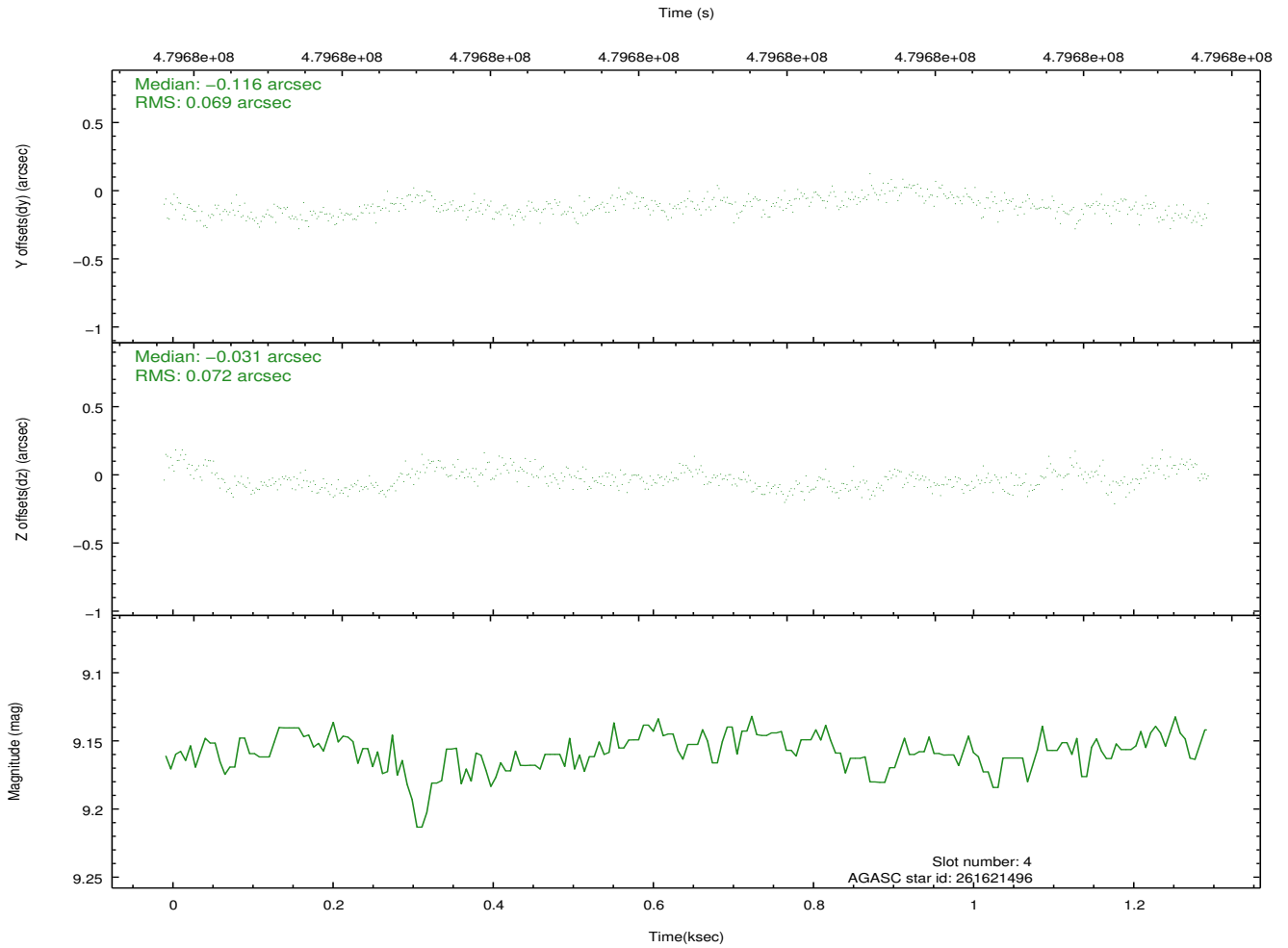
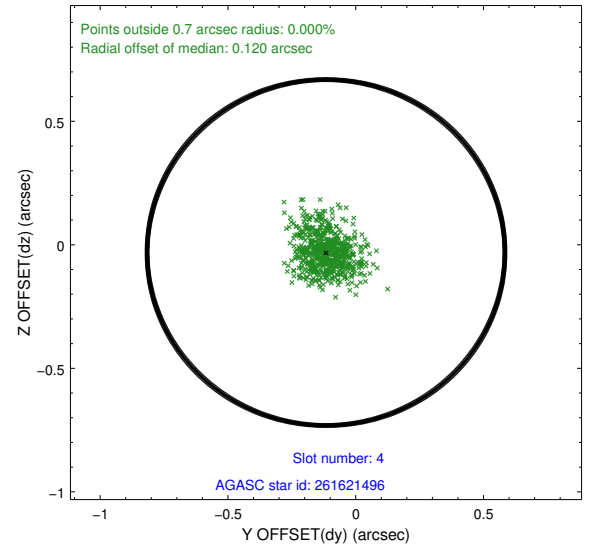
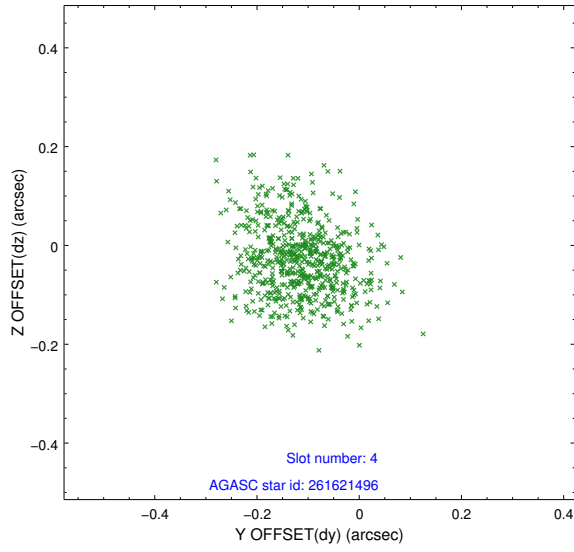
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.99	319	-0.047	-0.157	0.005	0.010	0.000000	0.000000	-1174.40	-464.39
1	FID		HRC-S-2	6.96	319	0.189	-0.164	0.009	0.016	0.000000	0.000000	1221.82	-458.41
2	FID		HRC-S-4	6.93	319	0.261	0.016	0.008	0.014	0.000000	0.000000	1227.94	566.50
3	GUIDE	used	261621400	6.97	637	-0.258	-0.317	0.079	0.127	198.901600	28.741982	1041.65	1372.72
4	GUIDE	used	261621496	9.16	637	-0.116	-0.031	0.105	0.173	199.518209	28.144598	-1860.05	1458.23
5	GUIDE	used	261624456	7.32	637	0.006	0.126	0.085	0.131	199.758056	28.567828	-1285.20	-143.53
6	GUIDE	used	261629720	8.11	636	0.099	0.254	0.094	0.154	199.236176	29.044452	1091.93	-142.19
7	GUIDE	used	261629968	9.23	635	0.266	-0.031	0.112	0.175	199.493239	28.065400	-2010.79	1710.23

2.4 Star Slots

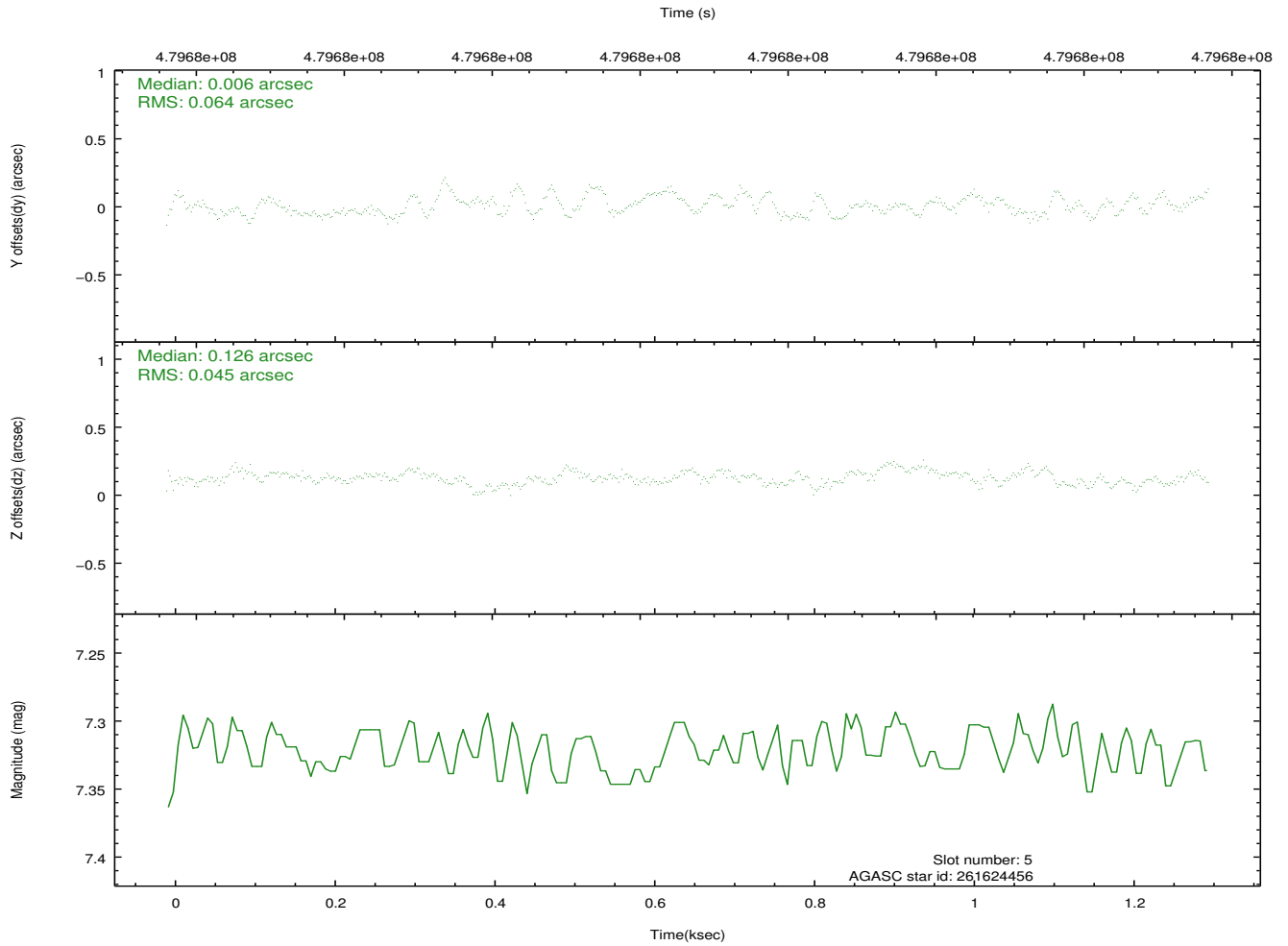
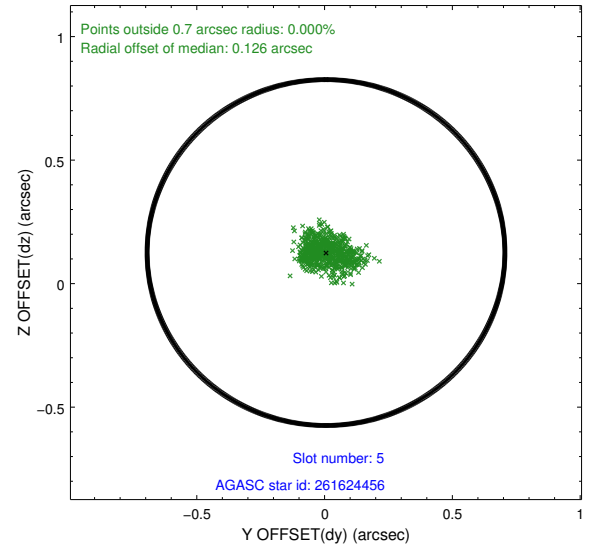
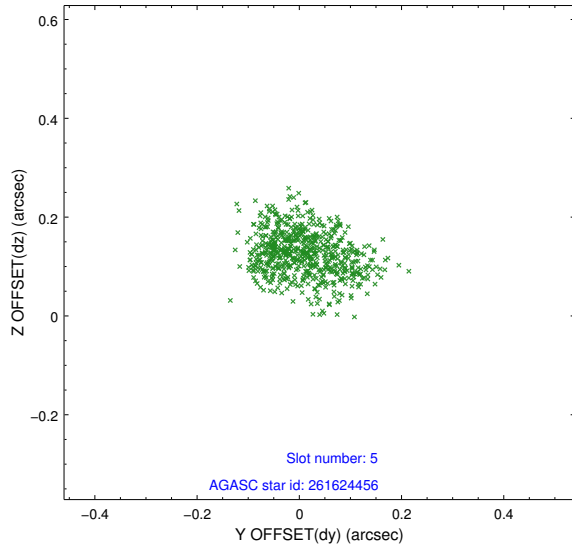
2.4.1 Slot 3



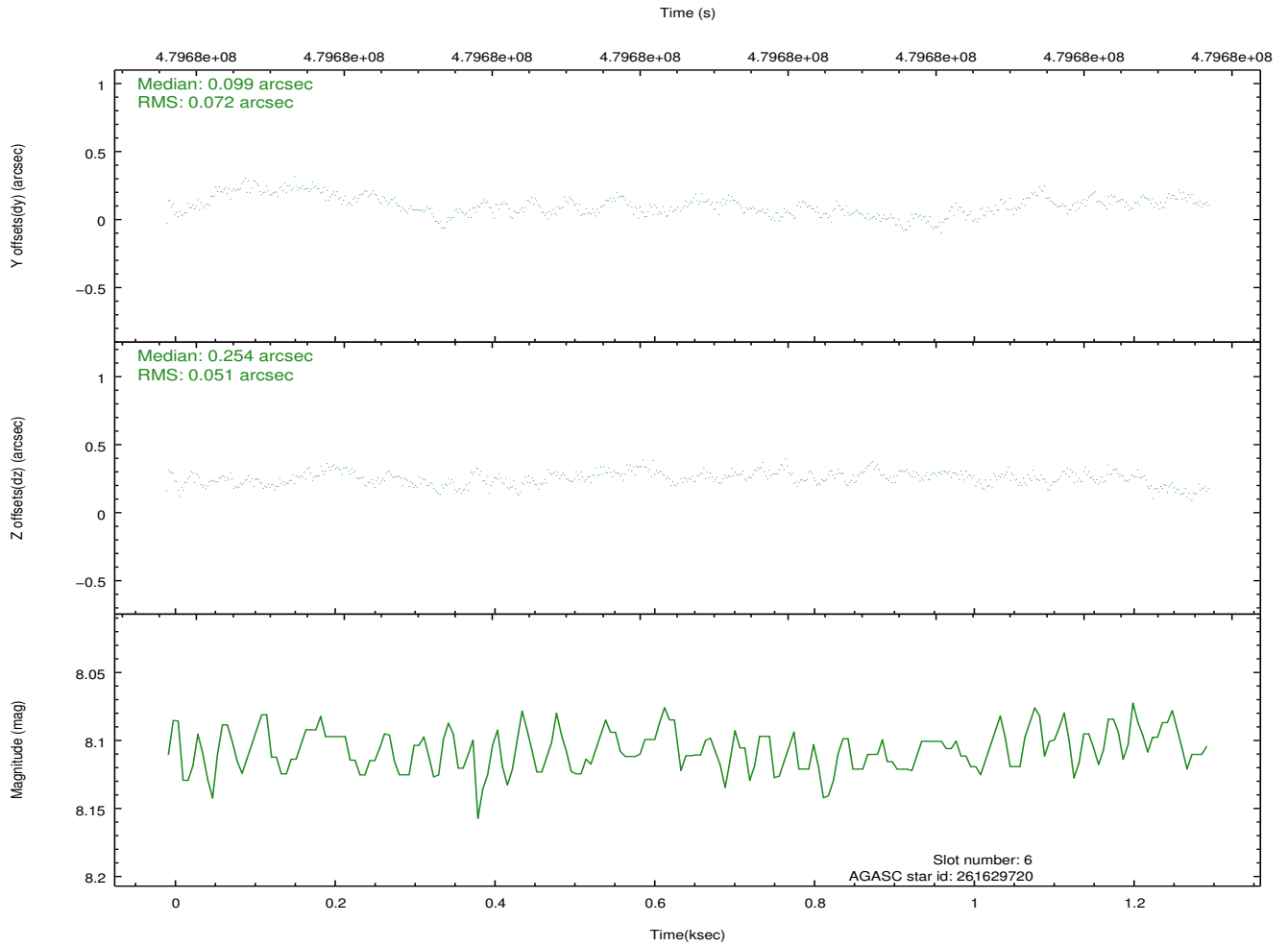
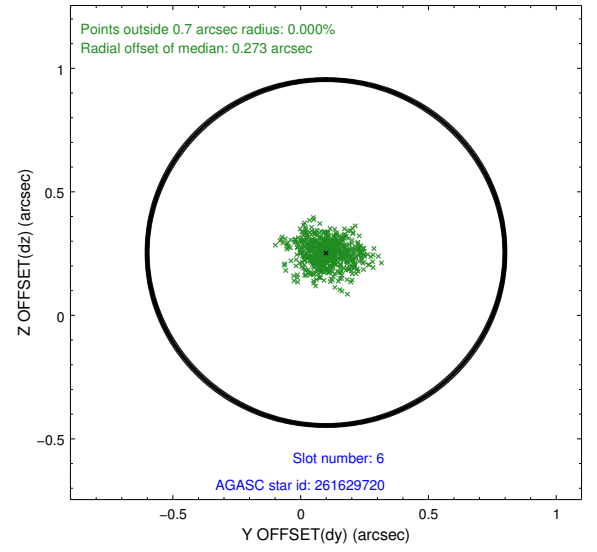
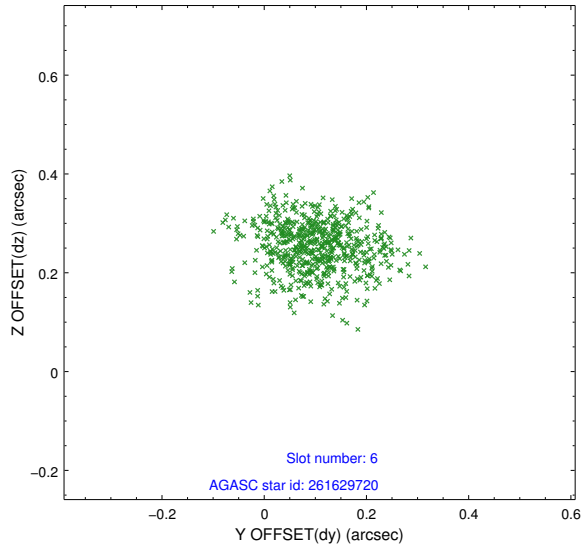
2.4.2 Slot 4



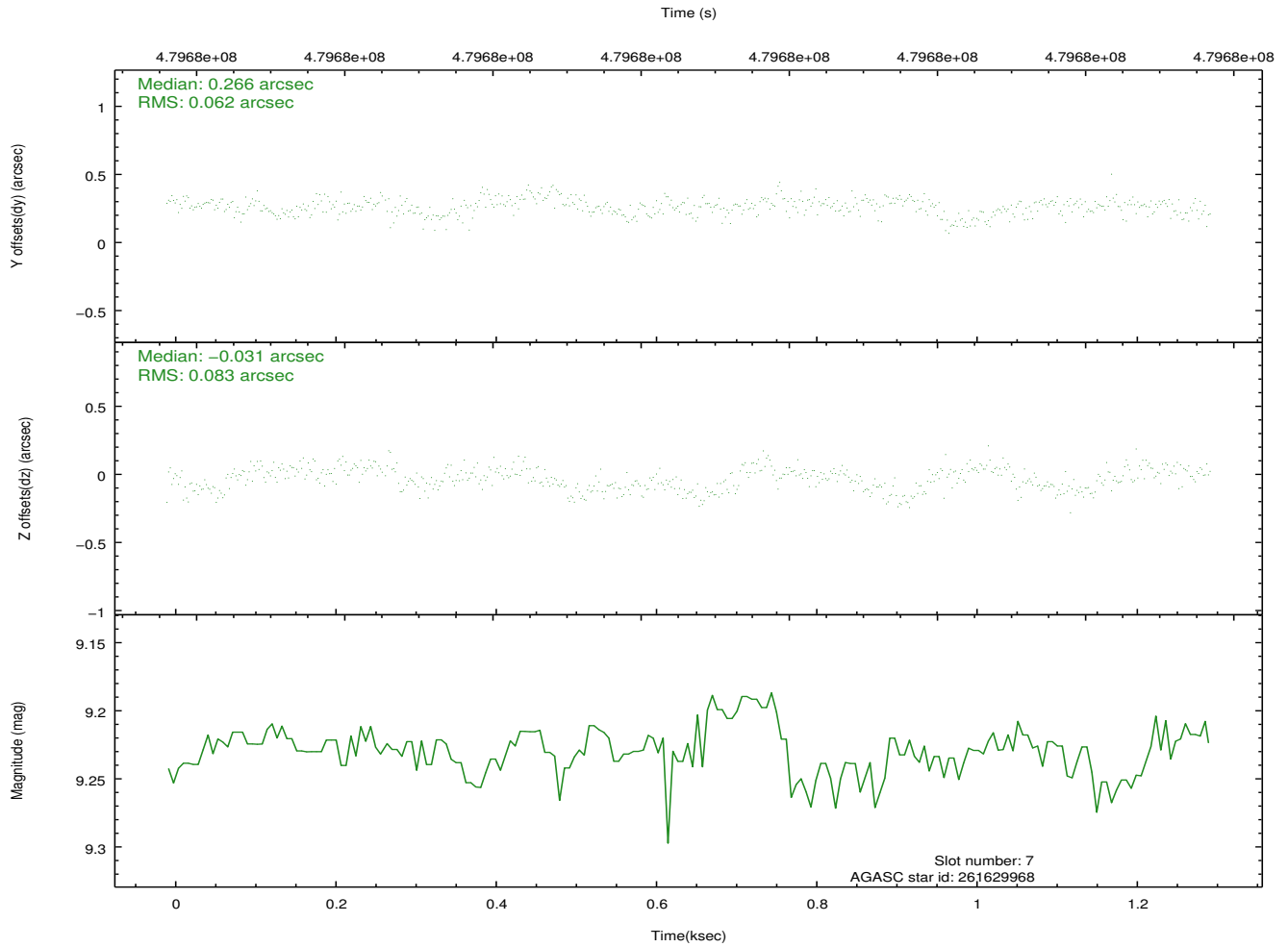
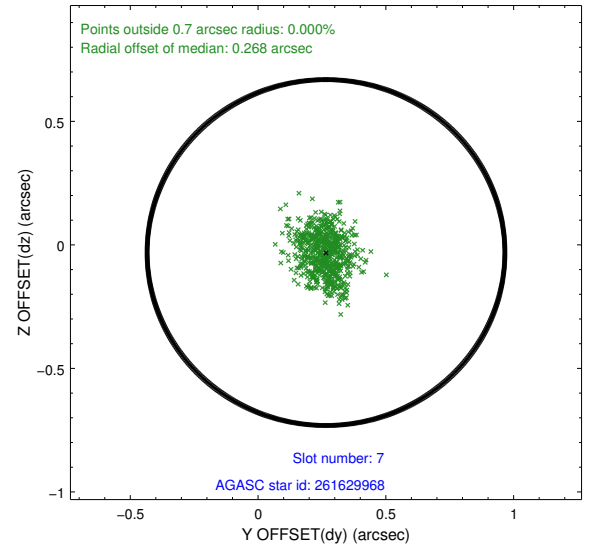
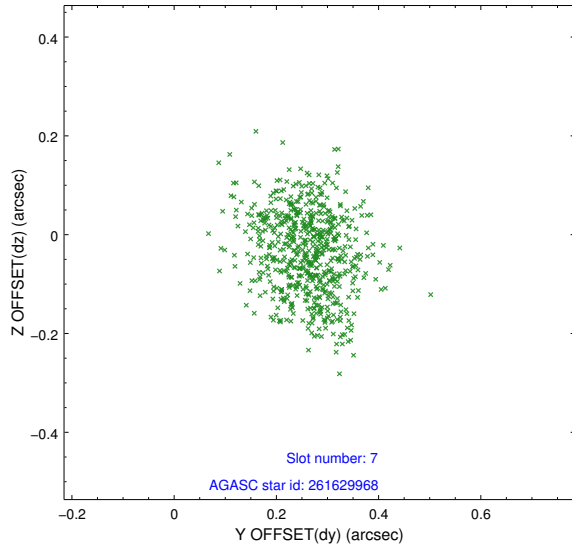
2.4.3 Slot 5



2.4.4 Slot 6

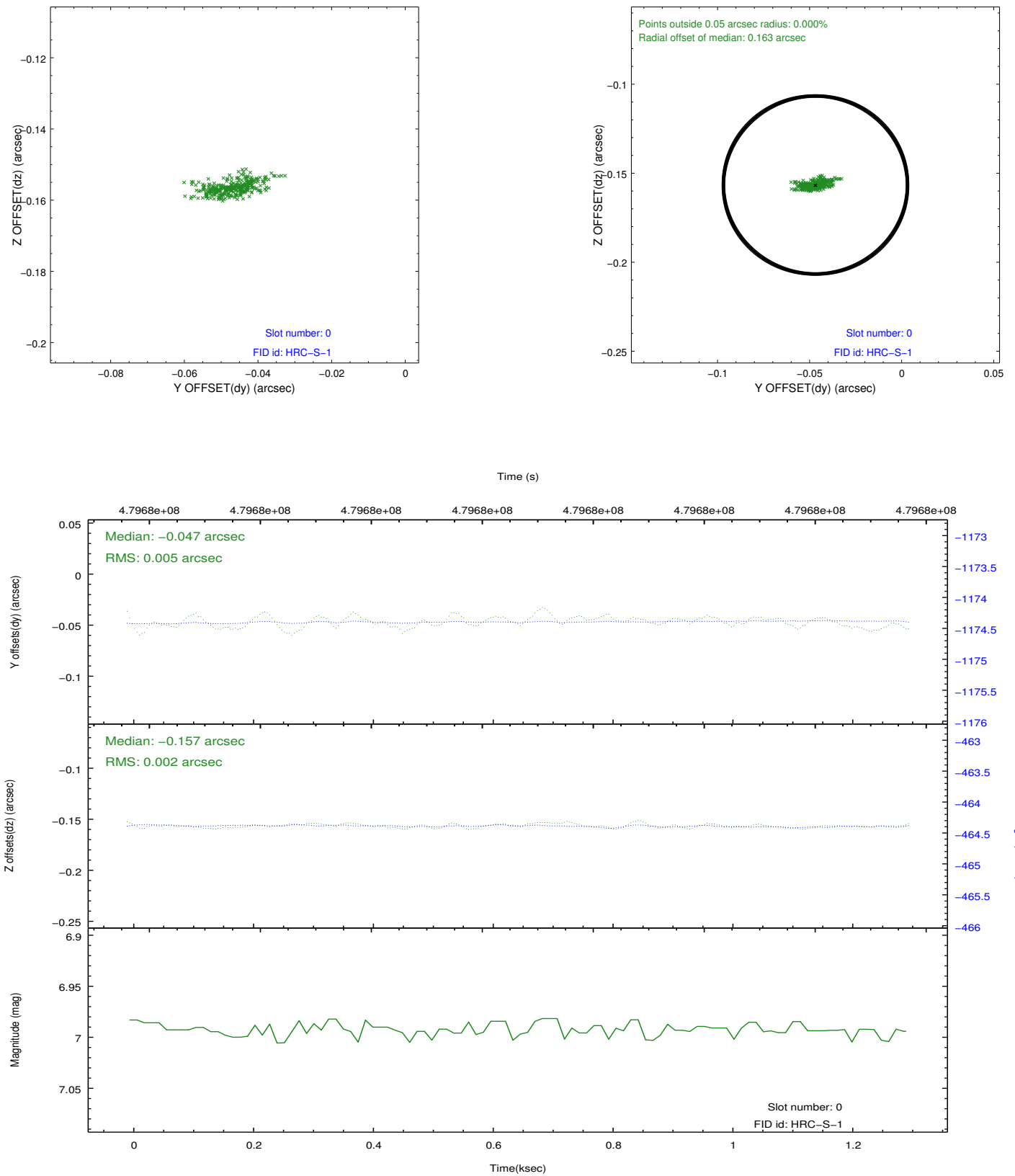


2.4.5 Slot 7

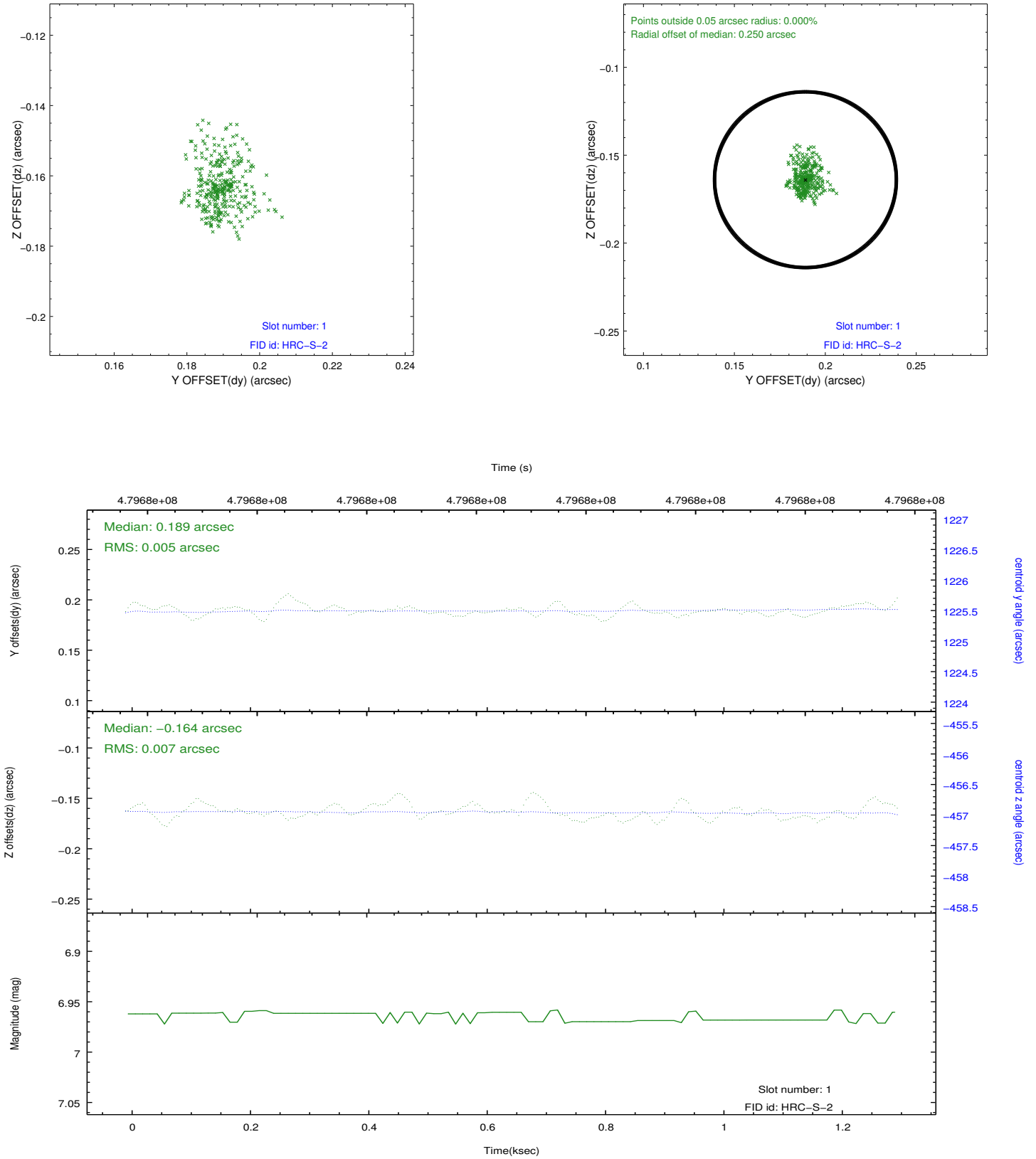


2.5 FID Slots

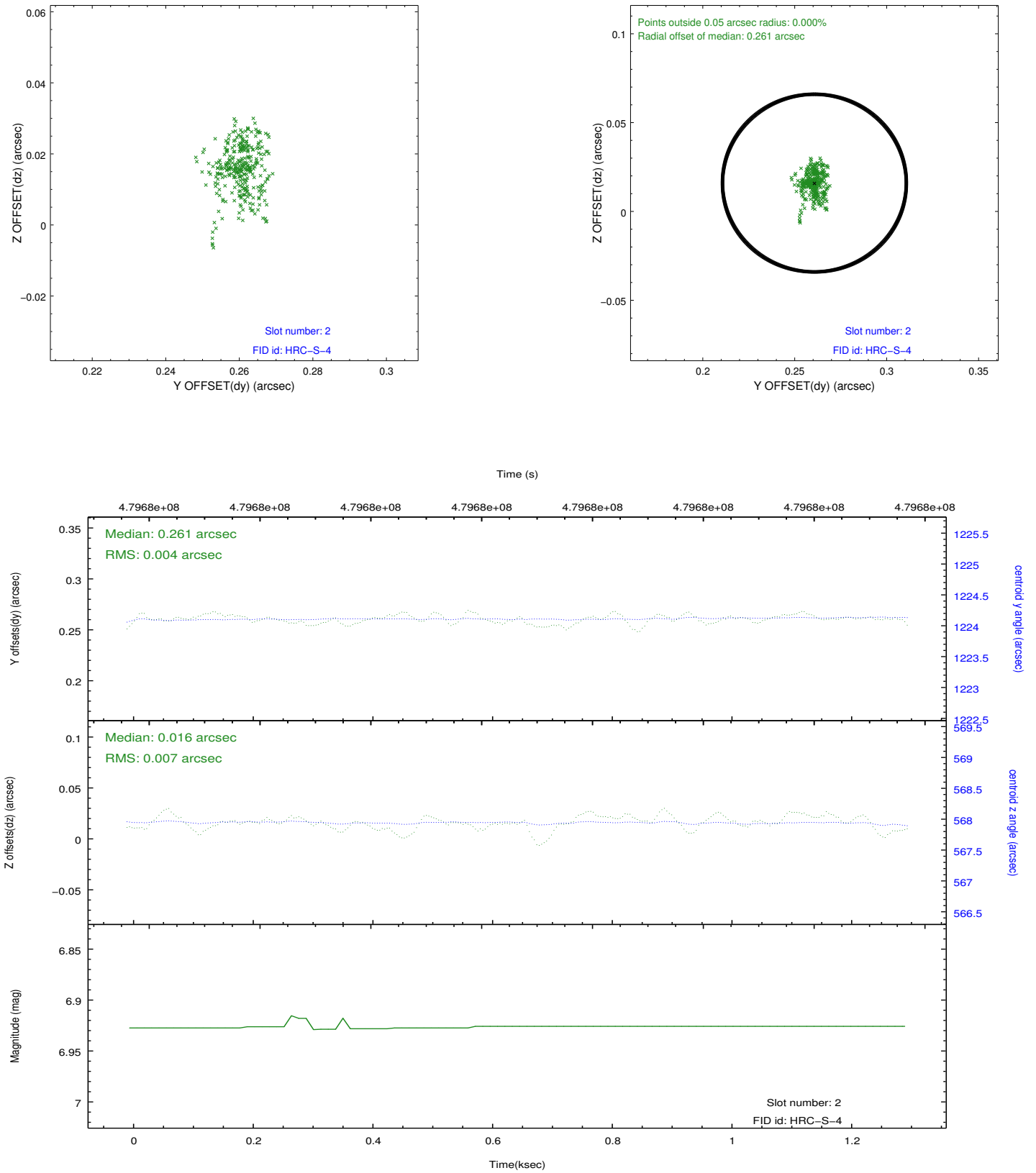
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.2968813201189

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.