

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14295 - L2 Version 2
Chandra X-Ray Center

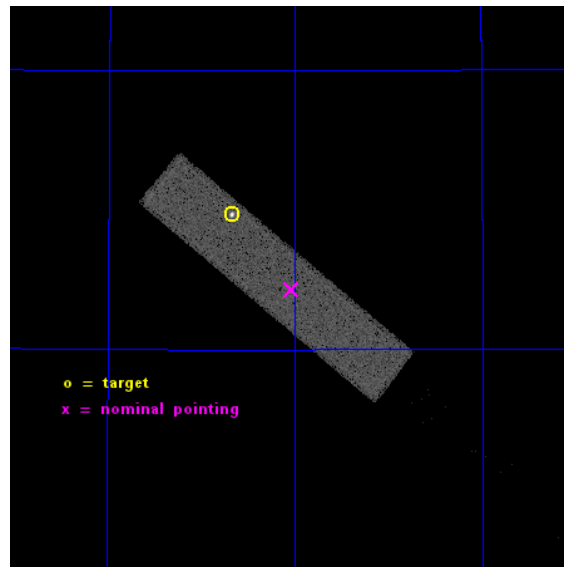
L2 Processing Date : Nov 26 2014

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1 Front

seq_num	291046	Sequence number
obs_id	14295	Observation id
title	AO-13 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.00911877422	Nominal RA [deg]
dec_nom	45.607963837119	Nominal Dec [deg]
roll_nom	219.13489174181	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1153.3813118935	[s]
livetime	1145.8078995663	Overtime multiplied by DTCOR
l2events	52168	Number of level 2 events

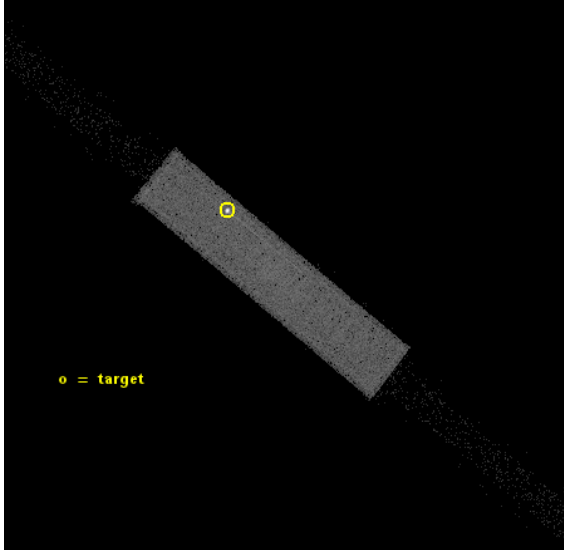


2 OBI

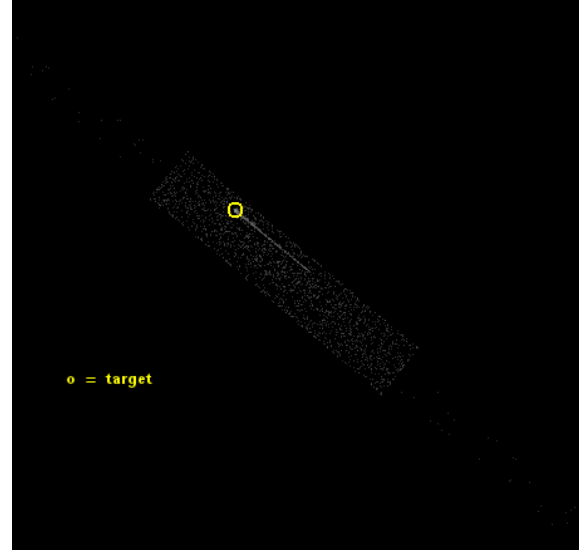
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1153.3813118935	[s]
caldbver	4.6.4	 	l1events	85176	Number of level 1 events
date	2014-11-27T02:31:16	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

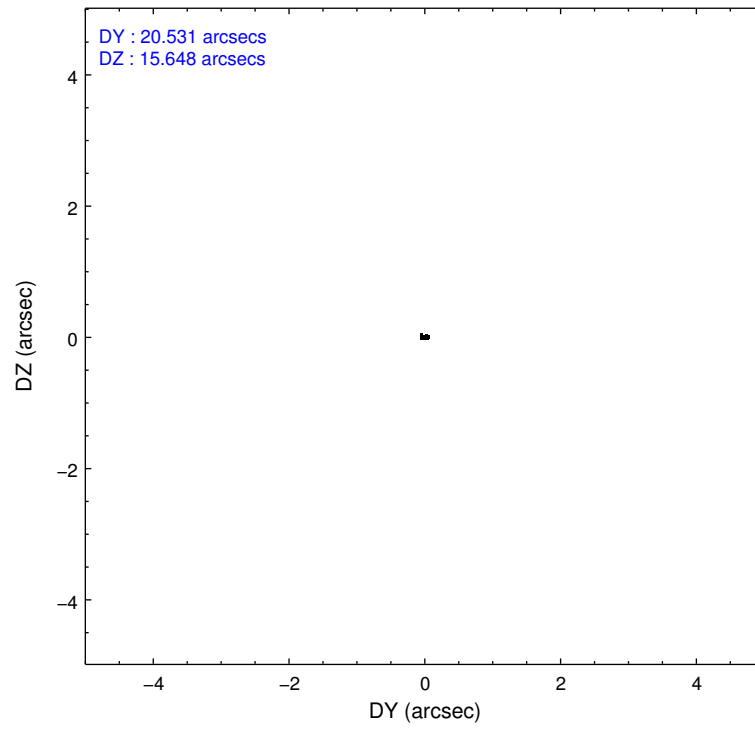
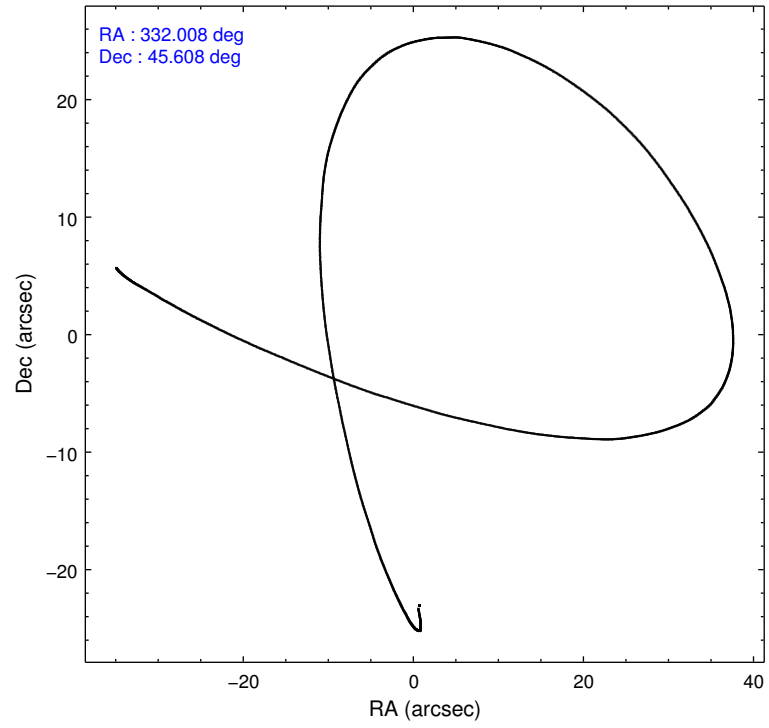
	segment 1	segment 2	segment 3
level 1 events	710	83807	659
rejected events	710	19389	640
rejected %	100%	23%	97%

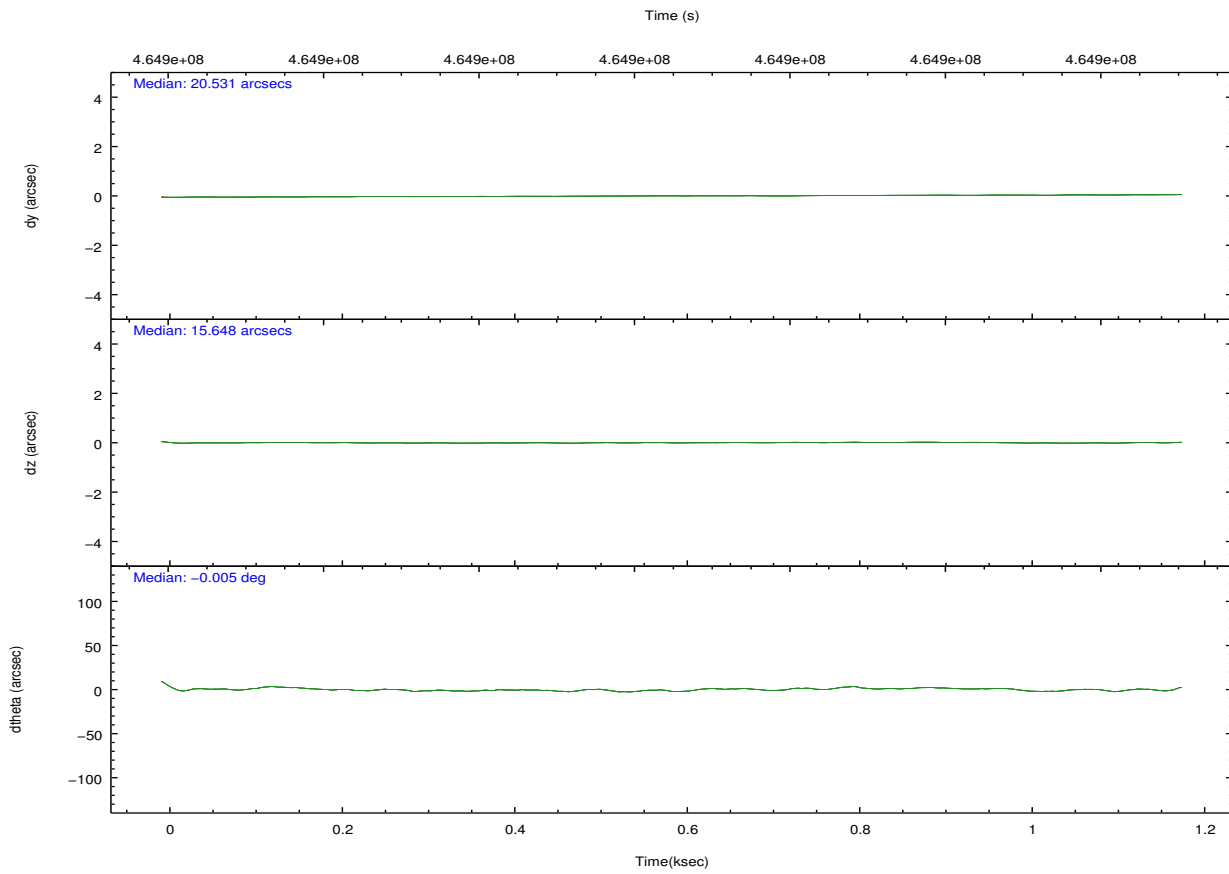
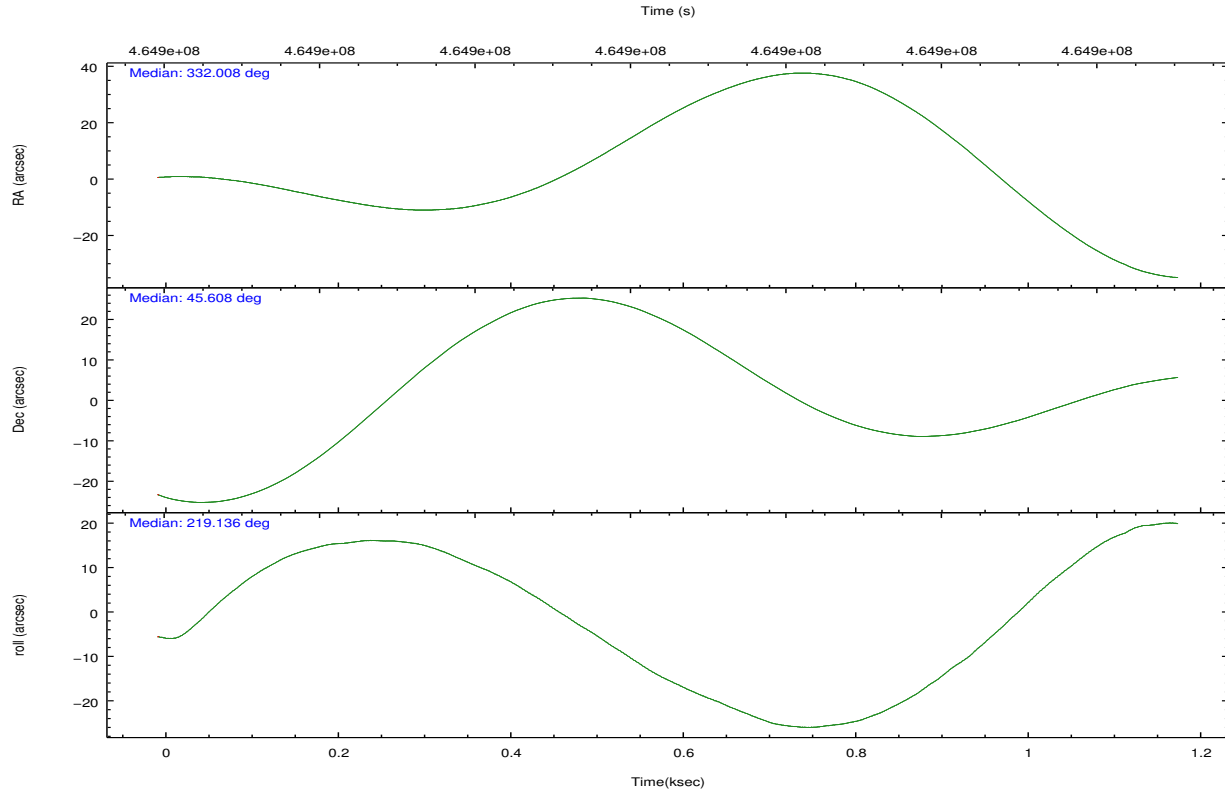
2.2 Compared Parameters

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	332.022013	332.0091187742187
[deg] Pointing Dec	45.635848	45.60796383711949
[deg] Pointing Roll	219.058339	219.1348917418123
[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)	464895631.184000	464895254.94741
Observation start date	2012-09-24T17:39:24	2012-09-24T17:34:14
[s] Observation end time (MET)	464896631.184000	464896764.77249
Observation end date	2012-09-24T17:56:04	2012-09-24T17:59:24

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

2.3 Aspect





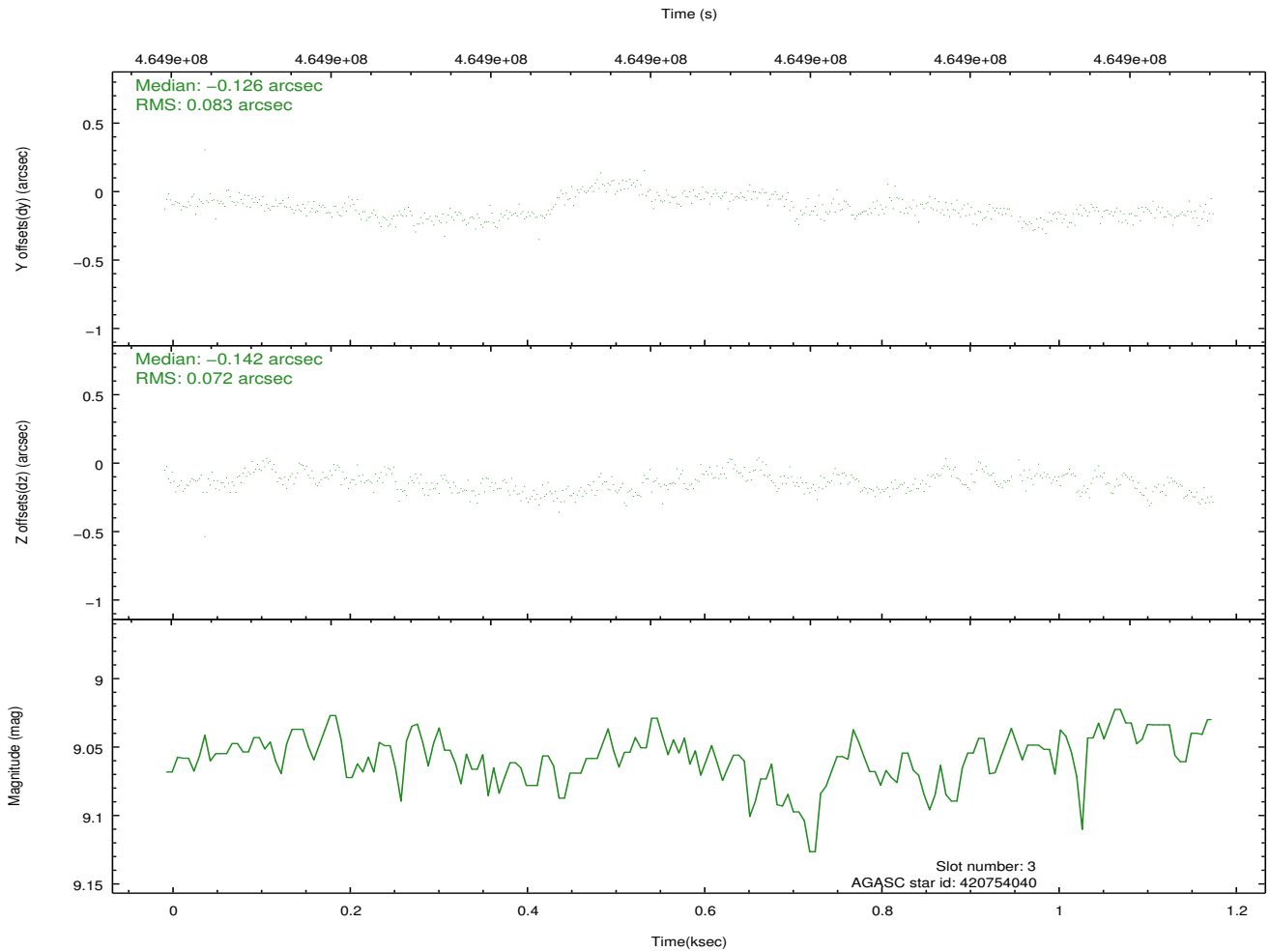
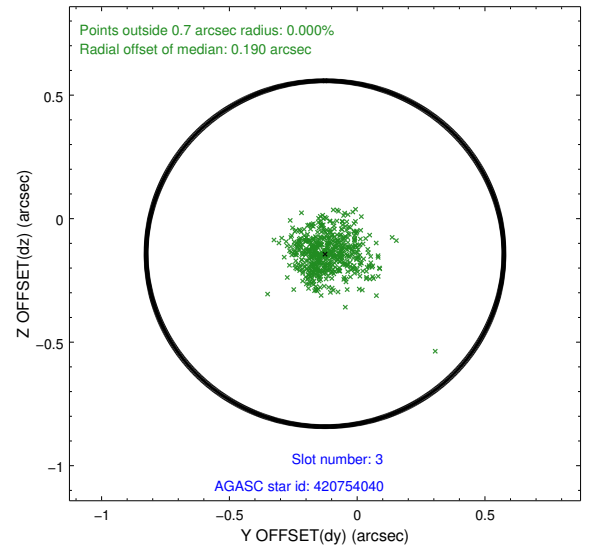
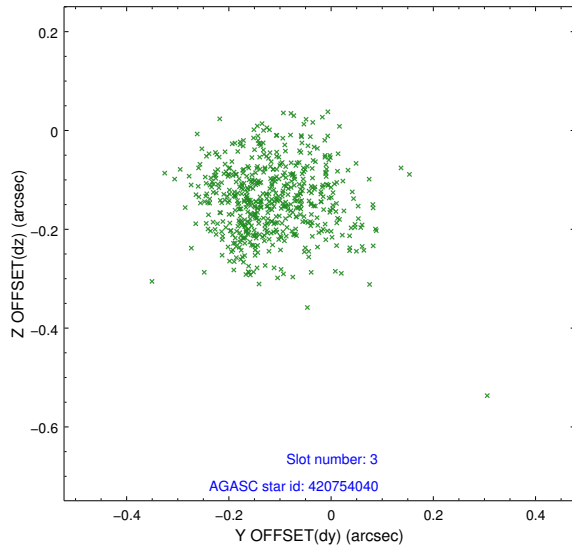
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.06	289	-0.026	-0.254	0.007	0.012	0.000000	0.000000	-1175.16	-464.67
1	FID		HRC-S-3	7.07	289	0.118	-0.010	0.008	0.013	0.000000	0.000000	-1181.84	563.48
2	FID		HRC-S-4	7.00	289	0.295	-0.033	0.006	0.010	0.000000	0.000000	1219.27	569.66
3	GUIDE	used	420754040	9.06	575	-0.126	-0.142	0.118	0.189	331.917939	44.882543	1912.09	1937.80
4	GUIDE	used	472523760	8.23	578	0.092	-0.162	0.094	0.380	331.645363	45.403260	1267.67	50.70
5	GUIDE	used	472527720	7.02	578	-0.222	-0.003	0.087	0.158	331.460205	45.112509	2293.00	558.73
6	GUIDE	used	472533912	9.14	578	0.184	0.334	0.125	0.191	331.791136	46.368695	-1214.82	-2410.40
7	GUIDE	used	472655152	9.42	568	0.061	-0.049	0.147	0.229	332.504239	45.862991	-1459.61	118.65

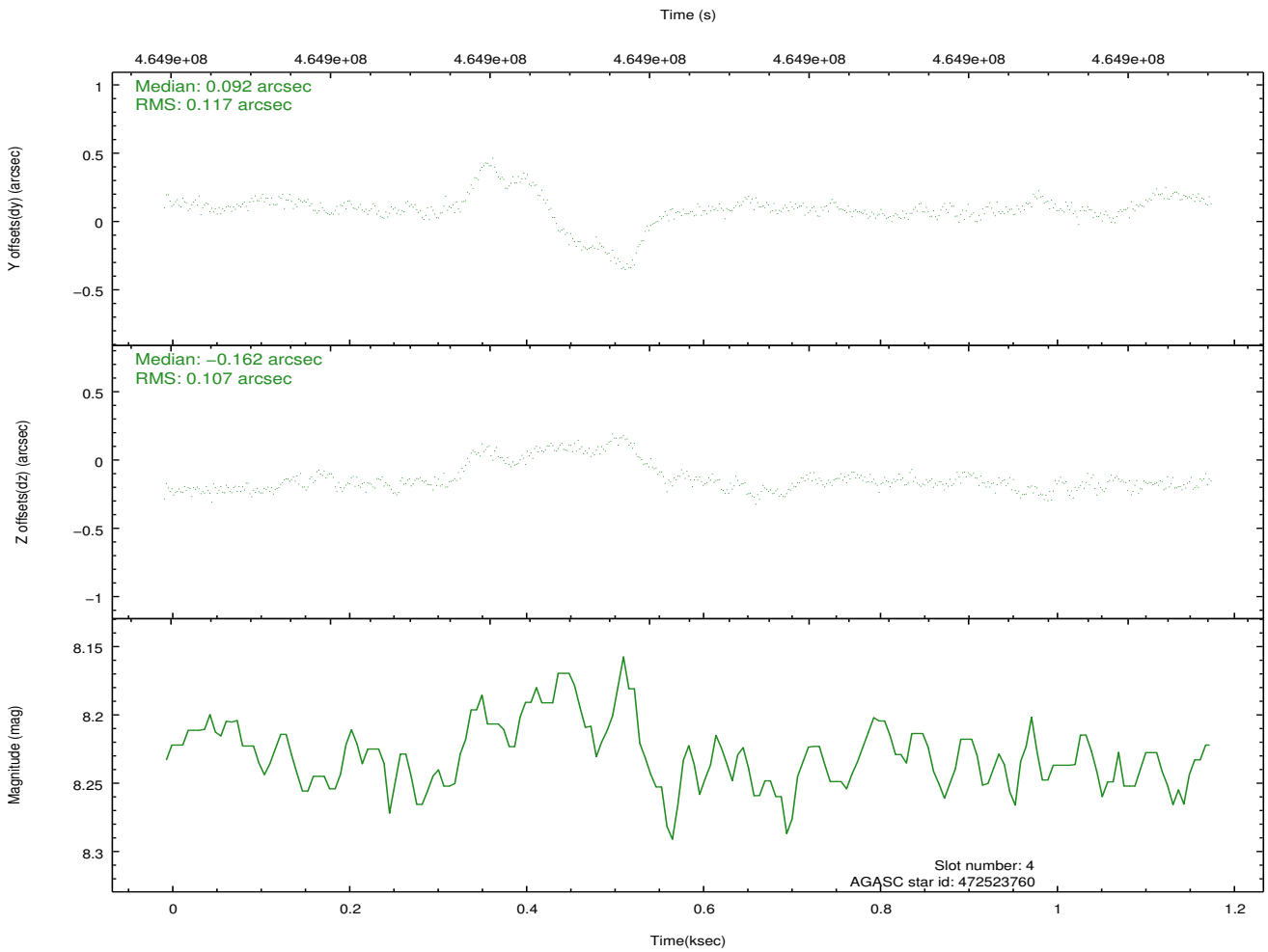
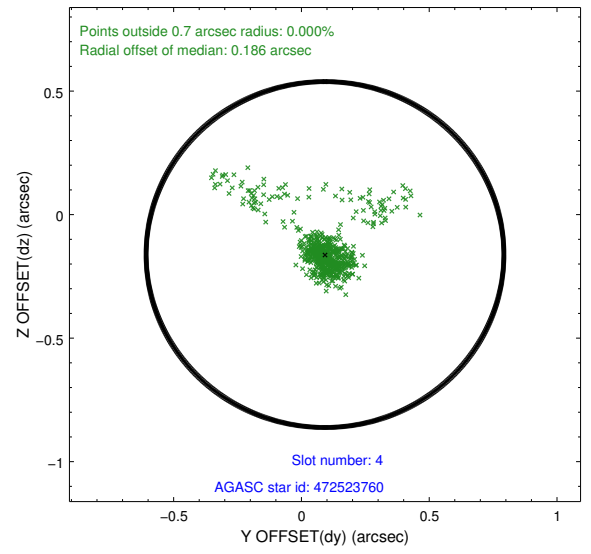
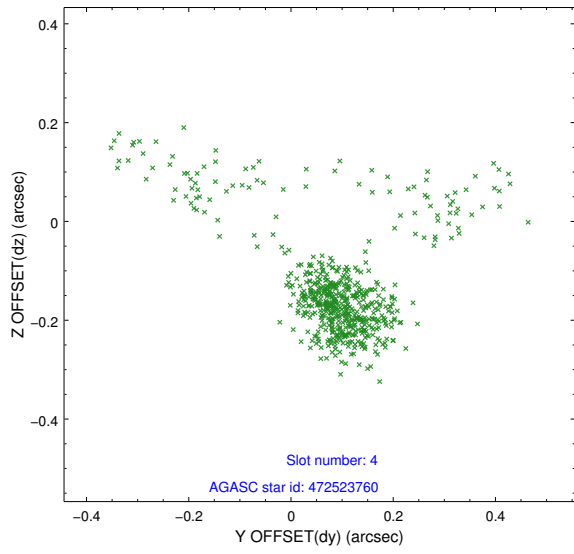
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2.4 Star Slots

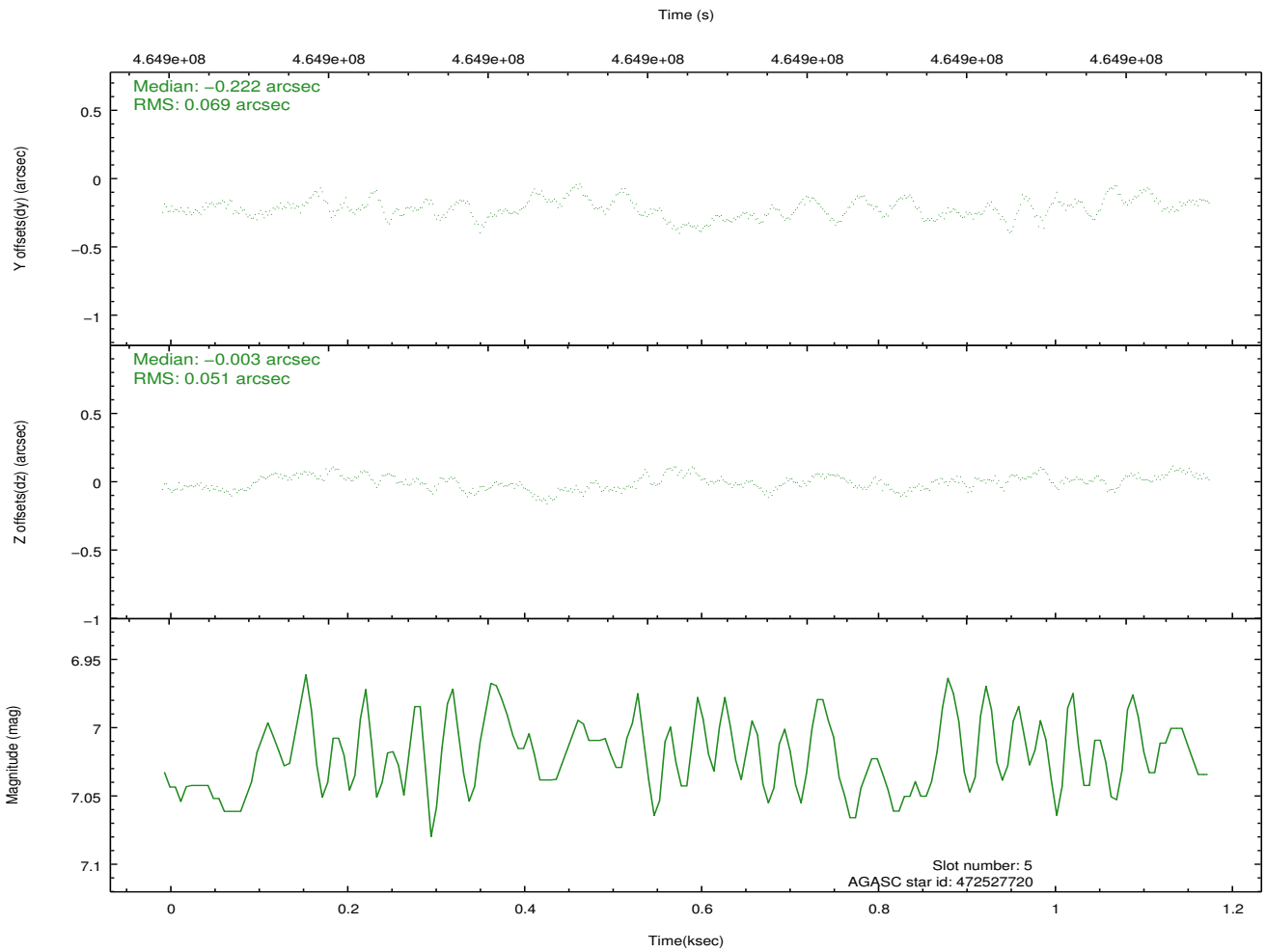
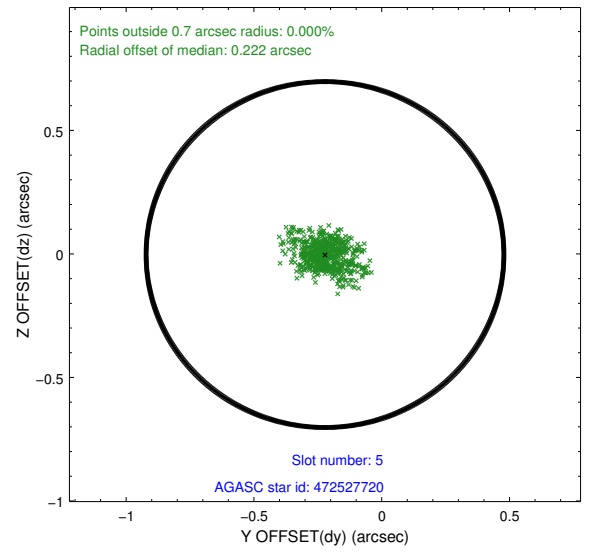
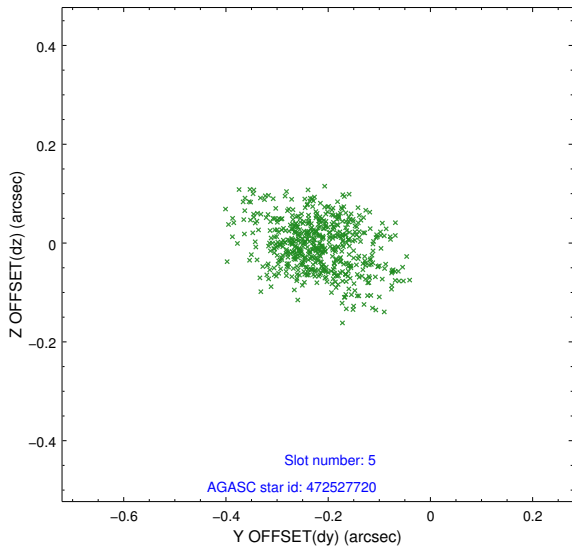
2.4.1 Slot 3



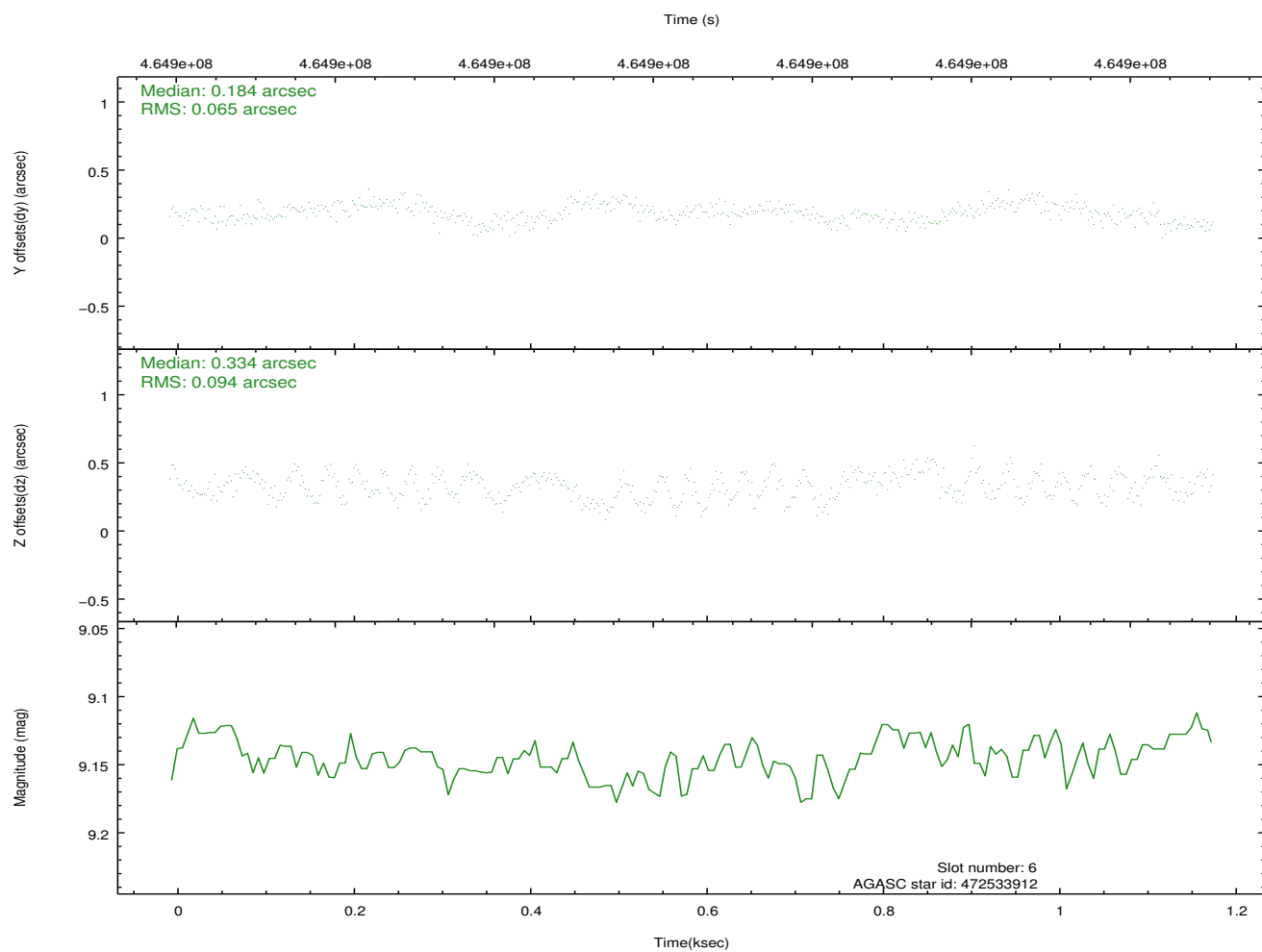
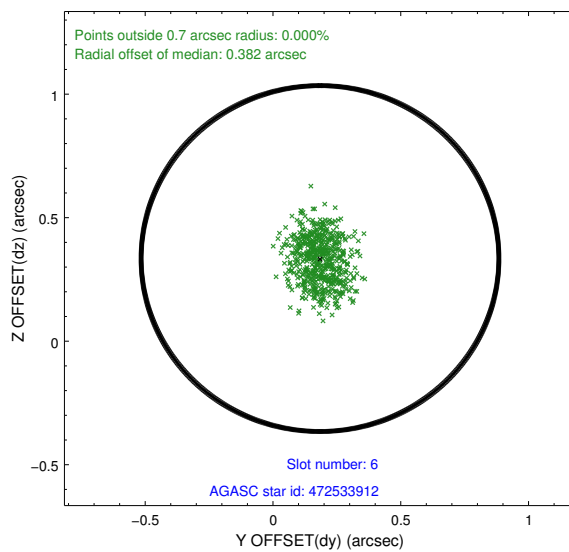
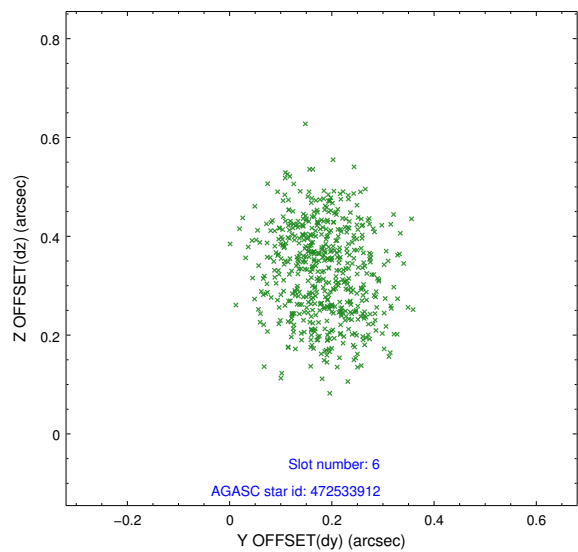
2.4.2 Slot 4



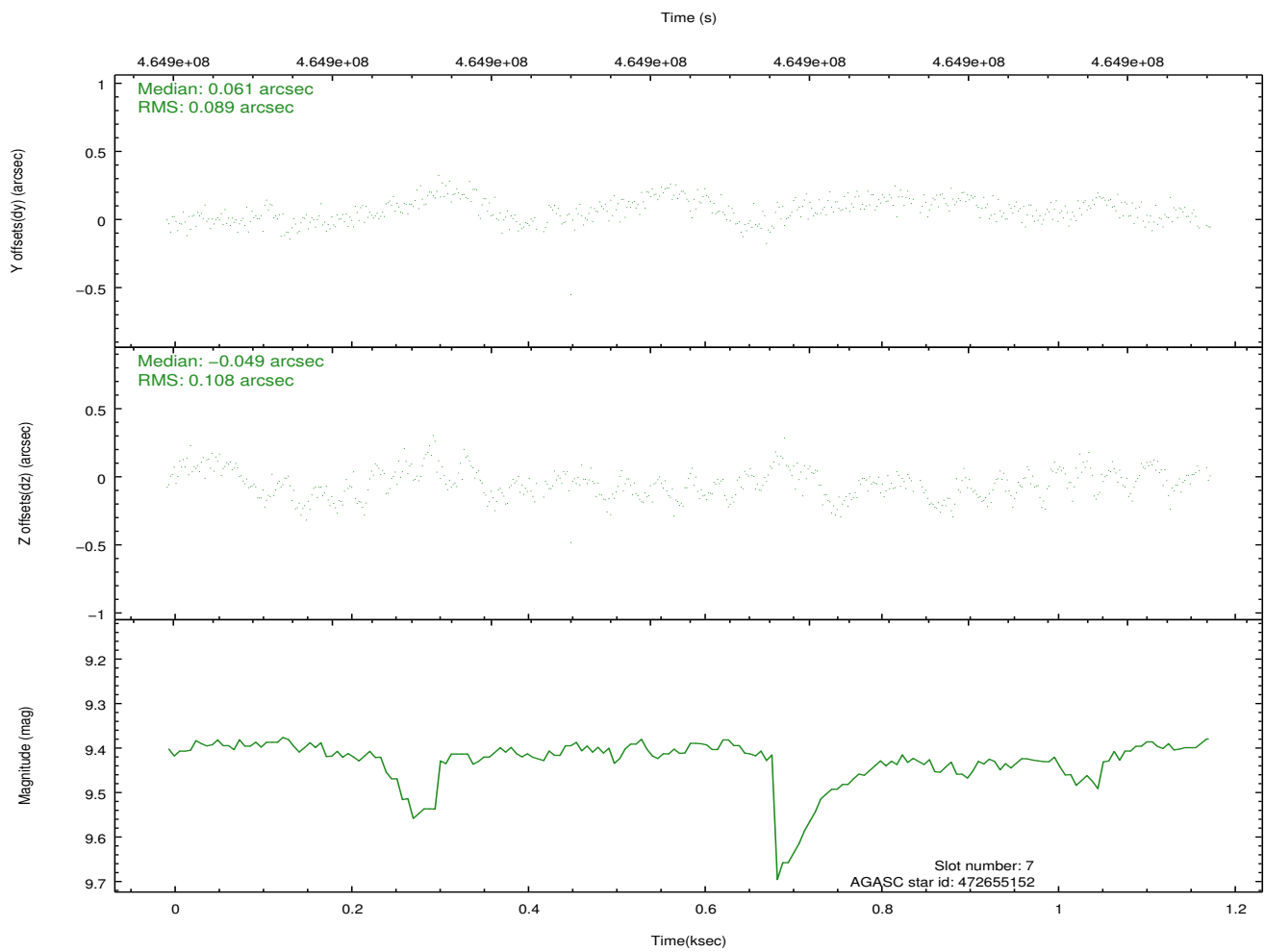
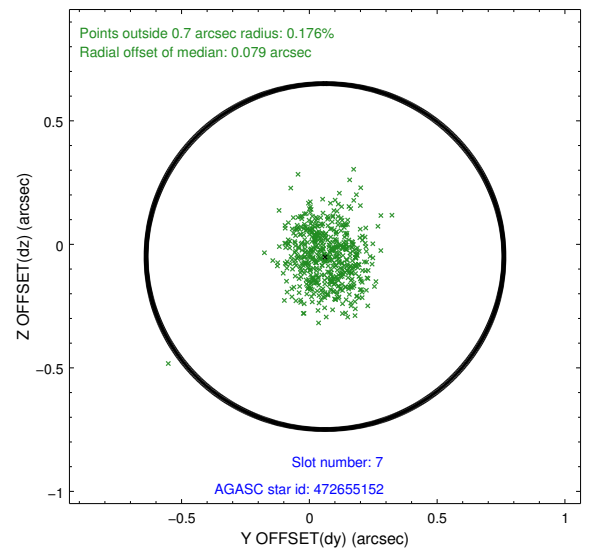
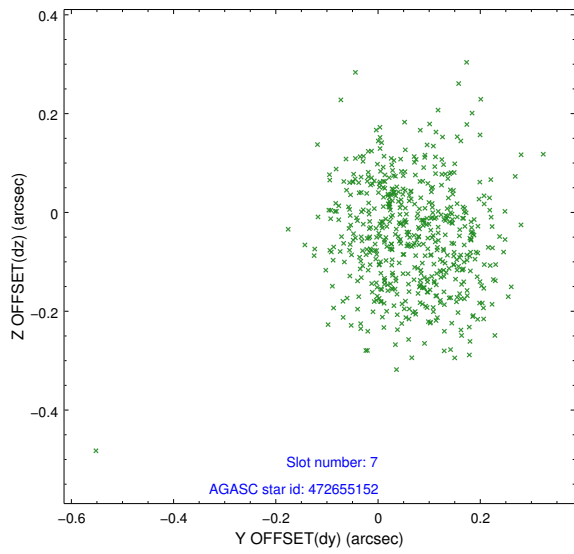
2.4.3 Slot 5



2.4.4 Slot 6

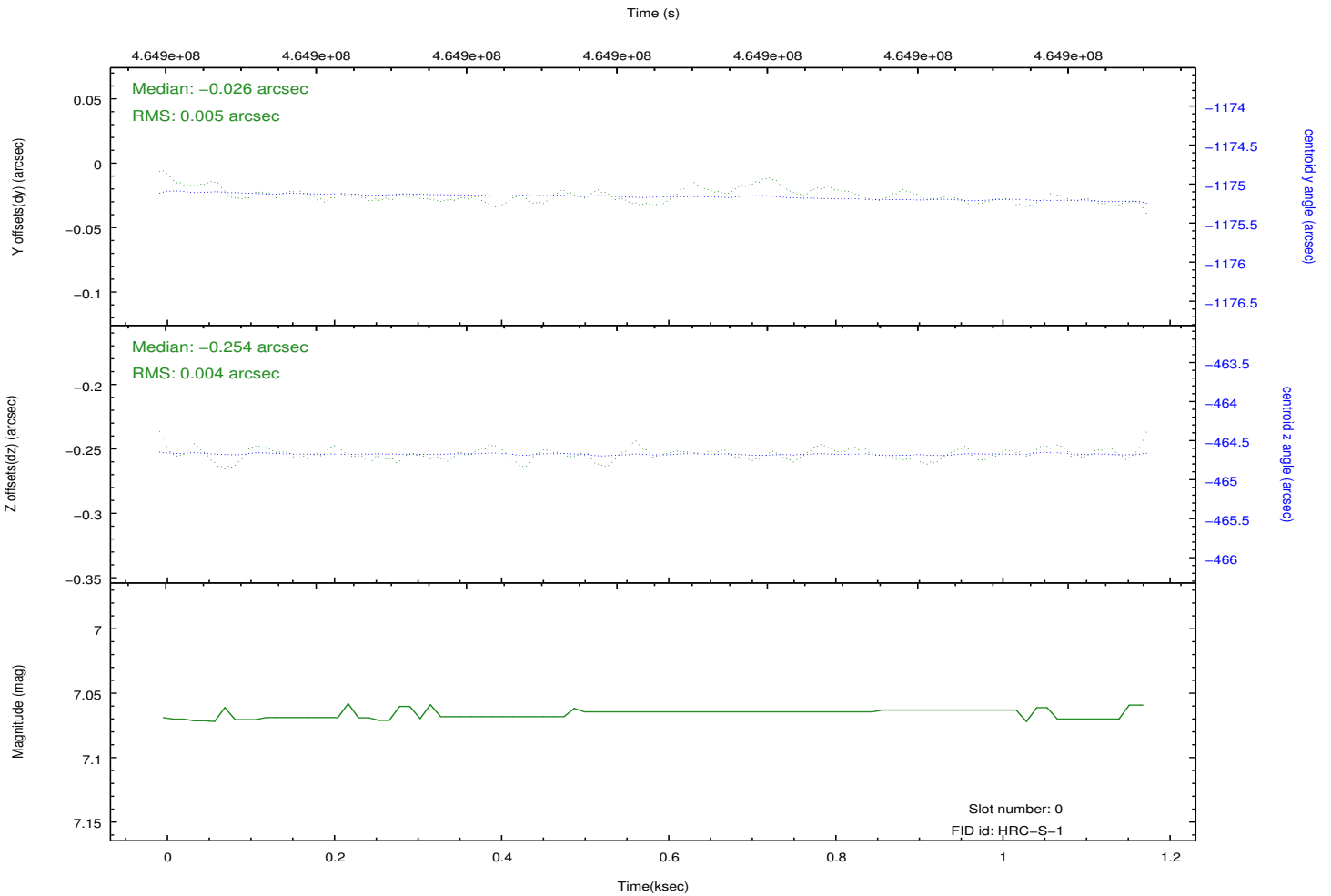
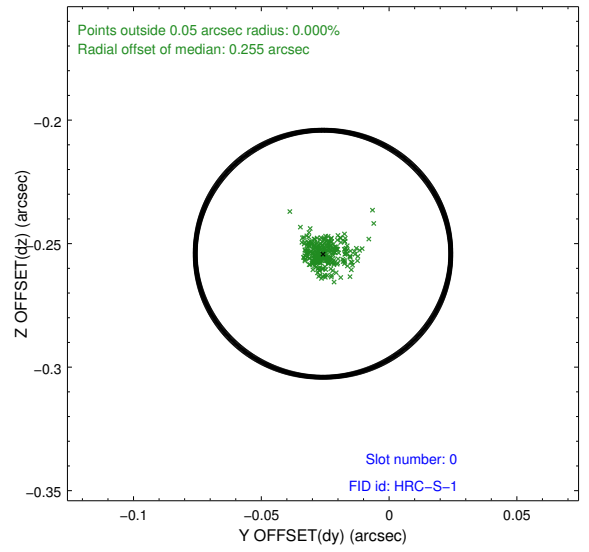
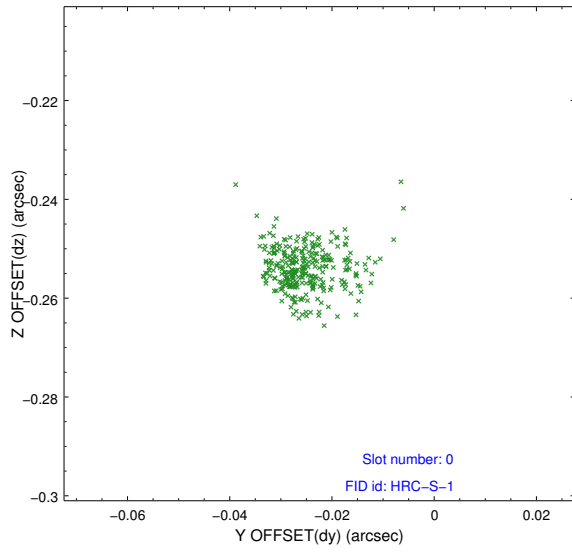


2.4.5 Slot 7

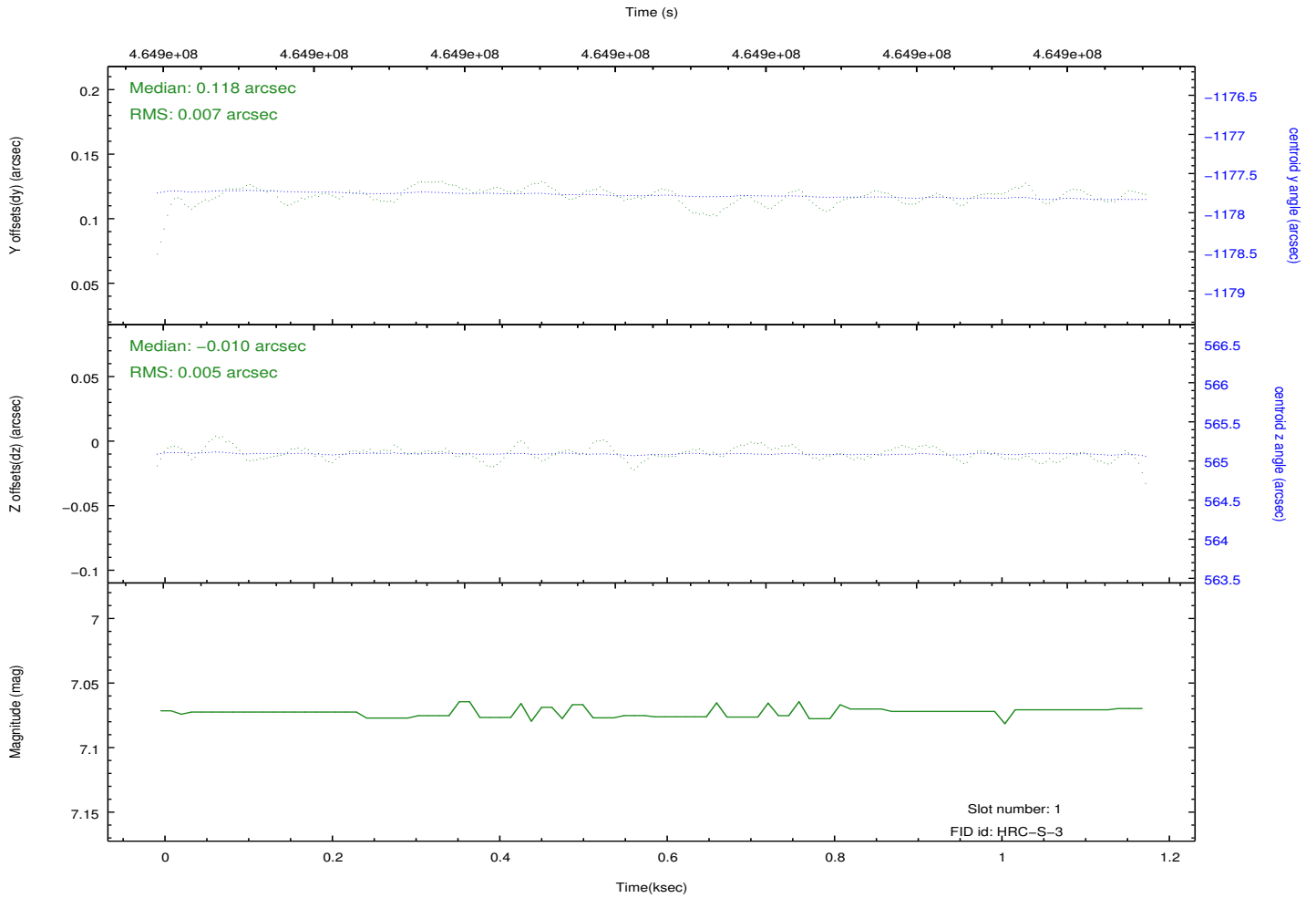
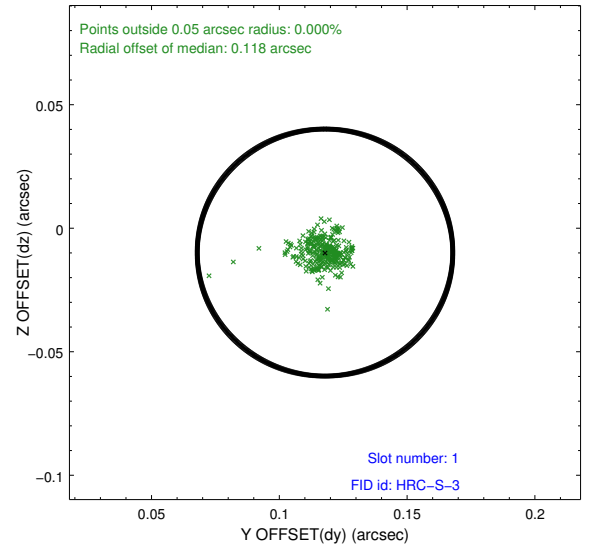
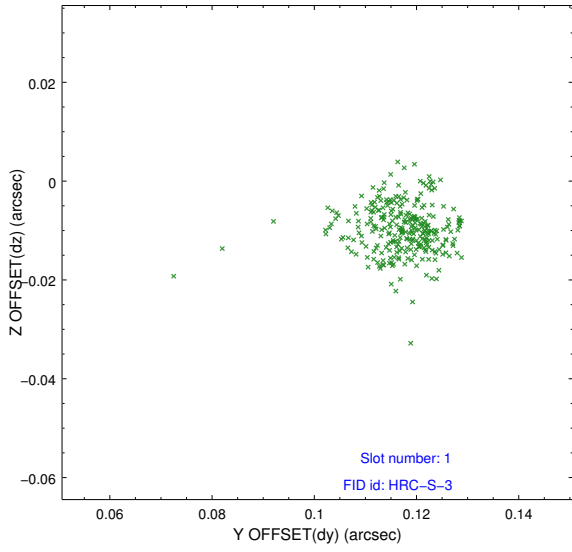


2.5 FID Slots

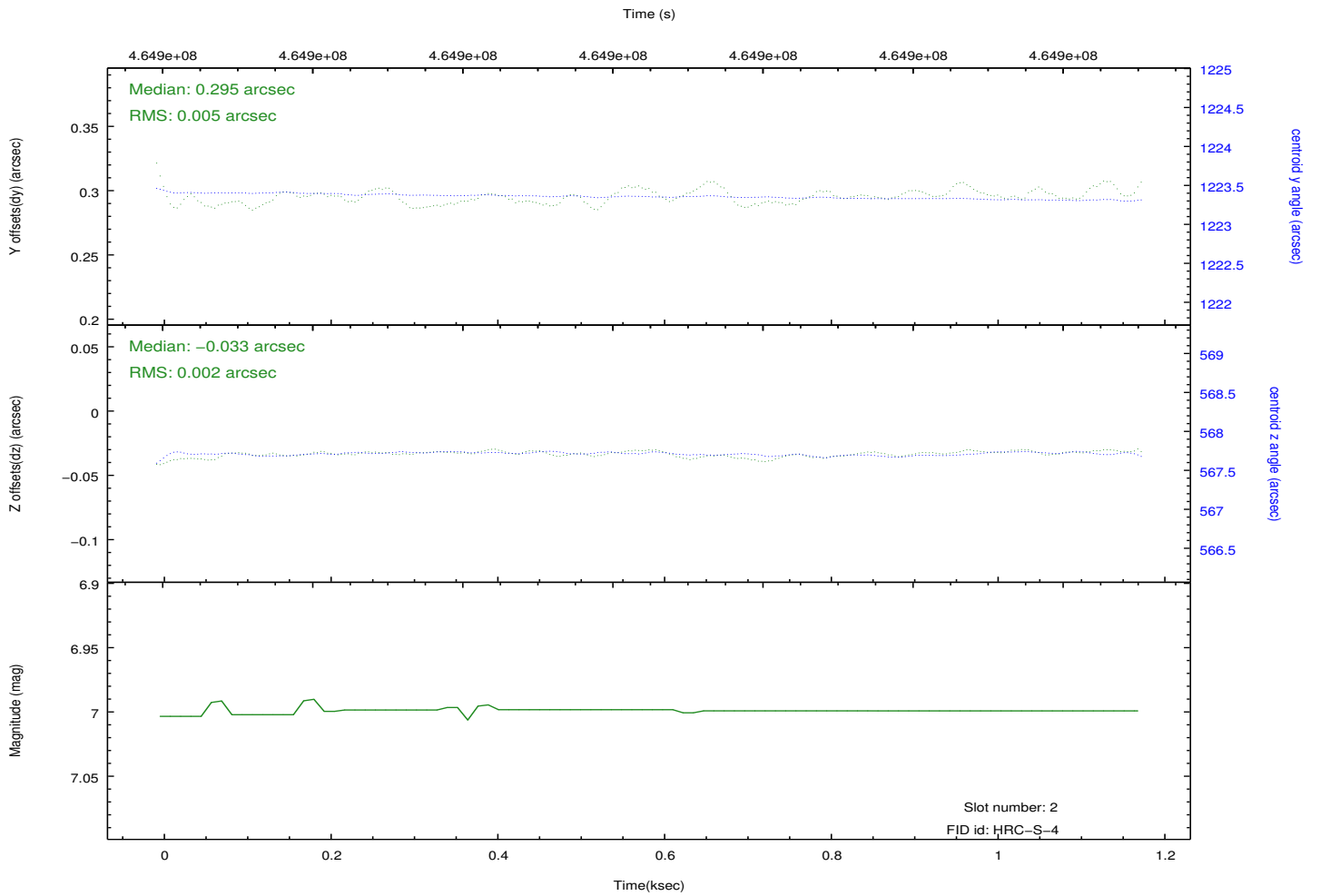
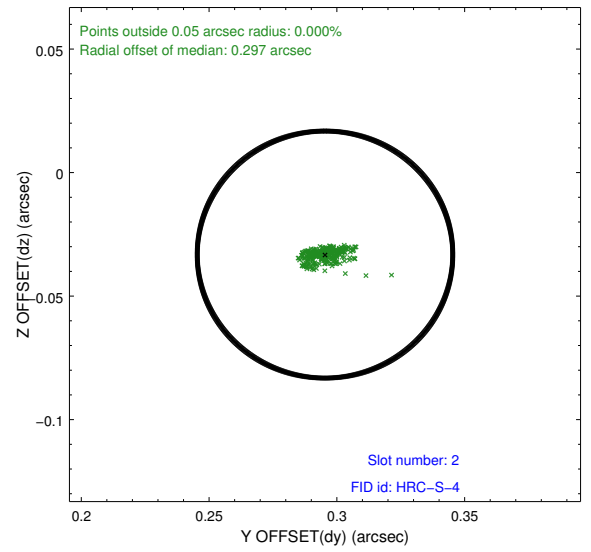
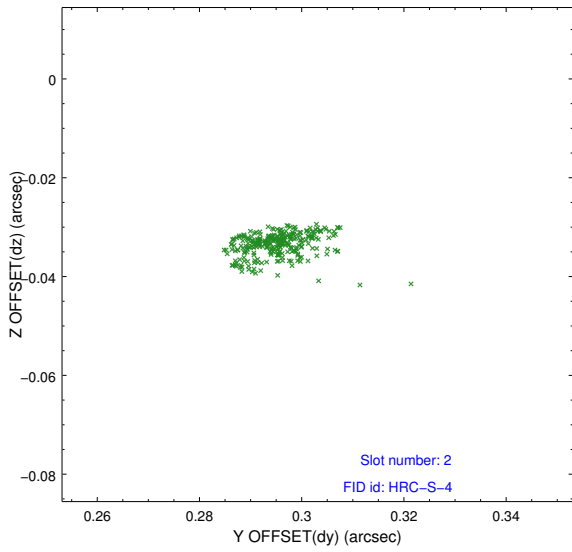
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1533813118935

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.