

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14291 - L2 Version 2
Chandra X-Ray Center

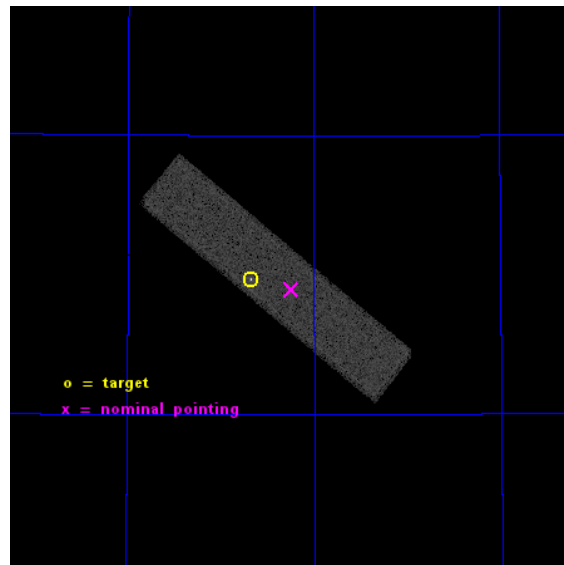
L2 Processing Date : Nov 26 2014

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1 Front

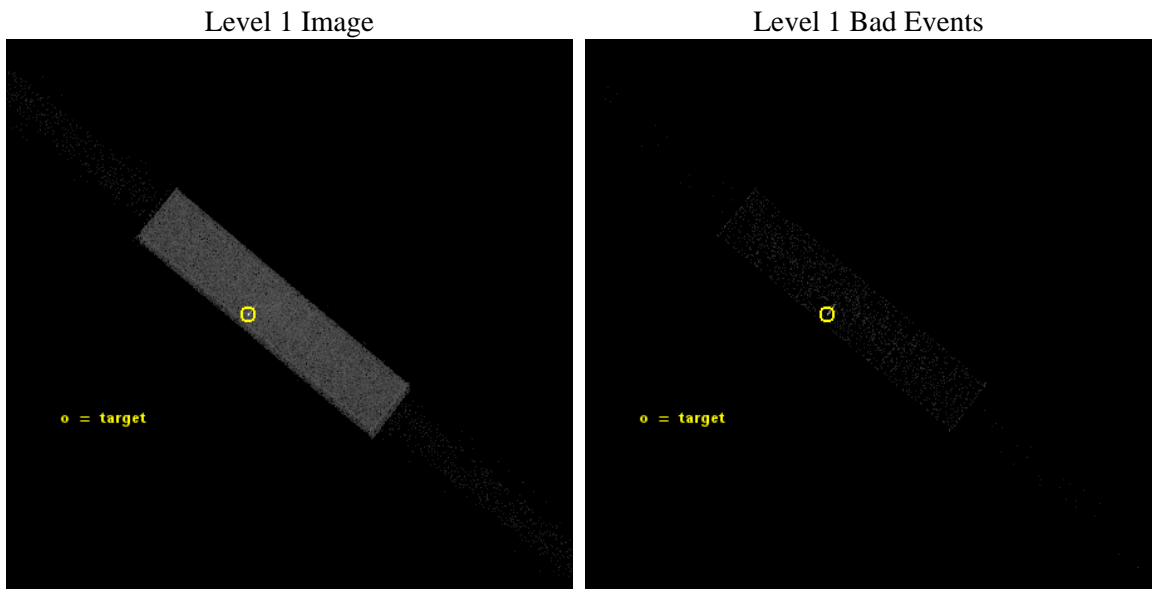
seq_num	291042	Sequence number
obs_id	14291	Observation id
title	AO-13 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.06018982289	Nominal RA [deg]
dec_nom	45.724247748338	Nominal Dec [deg]
roll_nom	218.93501540751	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1157.4813121557	[s]
livetime	1149.8991253368	Ontime multiplied by DTCOR
l2events	52318	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1157.4813121557	[s]
caldsver	4.6.4	 	l1events	84844	Number of level 1 events
date	2014-11-27T02:26:05	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

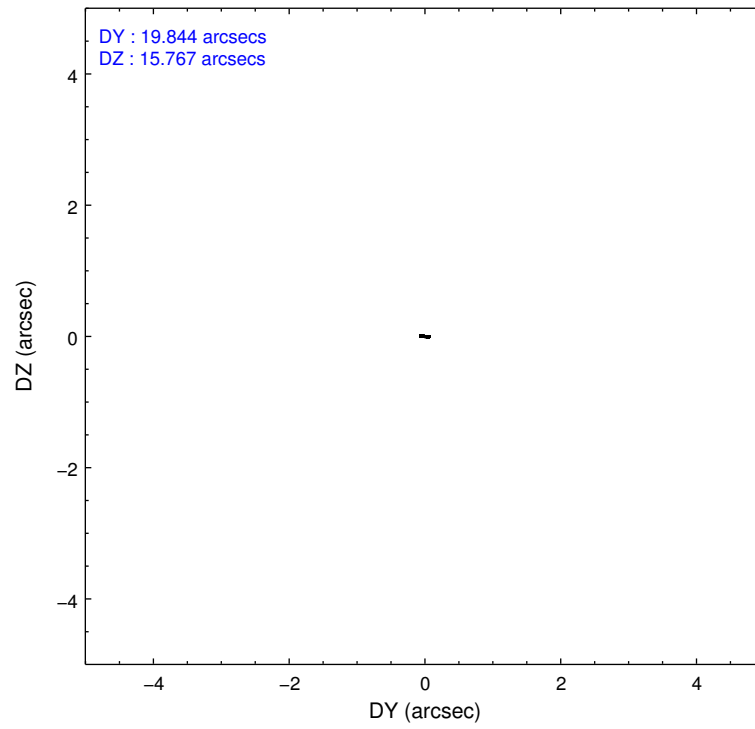
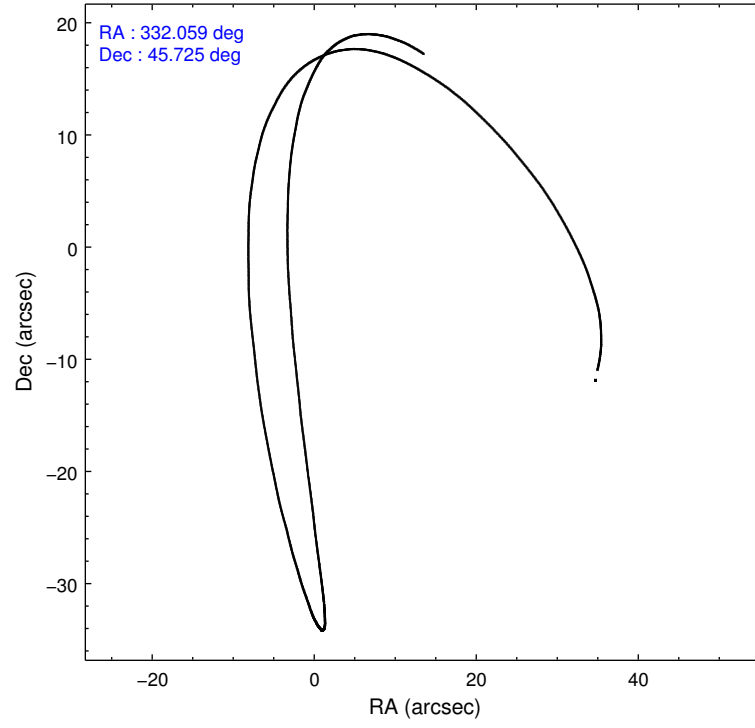
	segment 1	segment 2	segment 3
level 1 events	720	83399	725
rejected events	720	18854	725
rejected %	100%	22%	100%

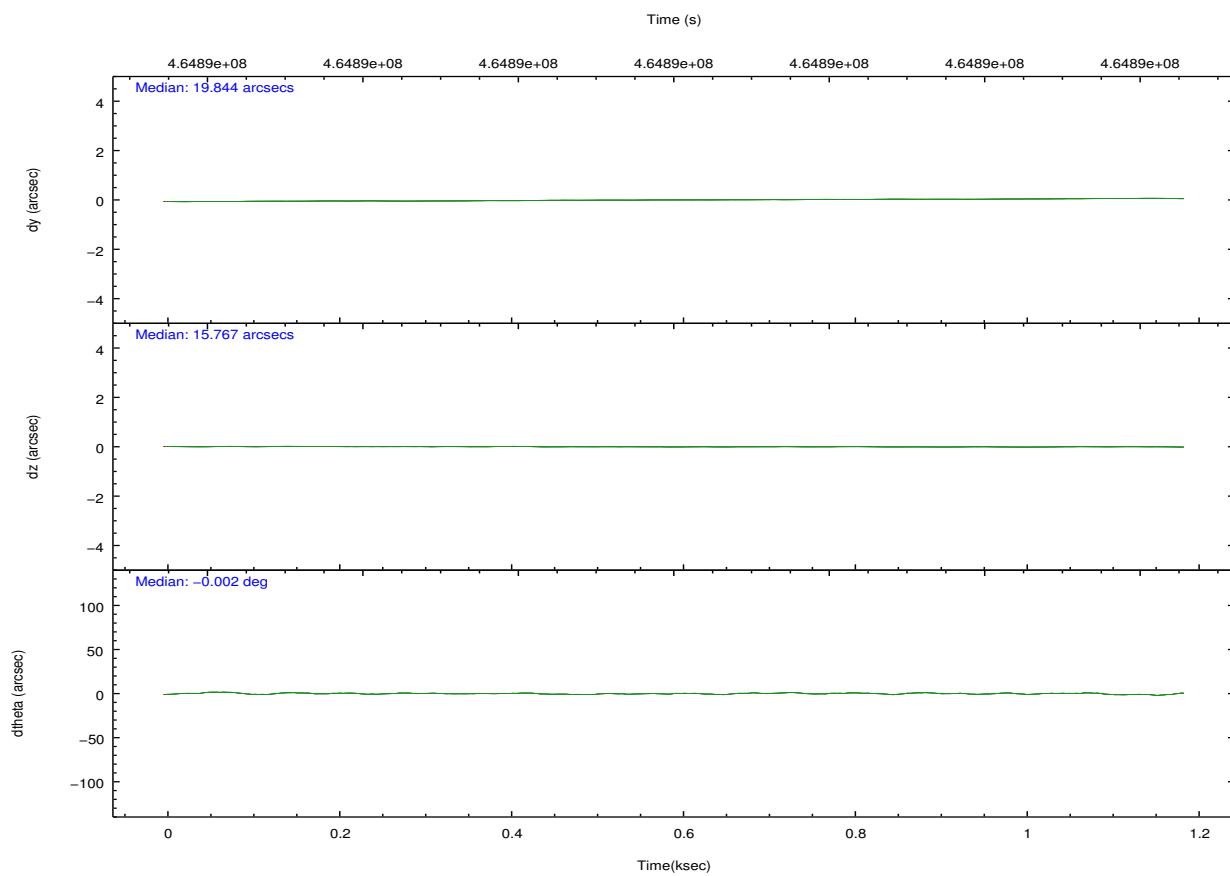
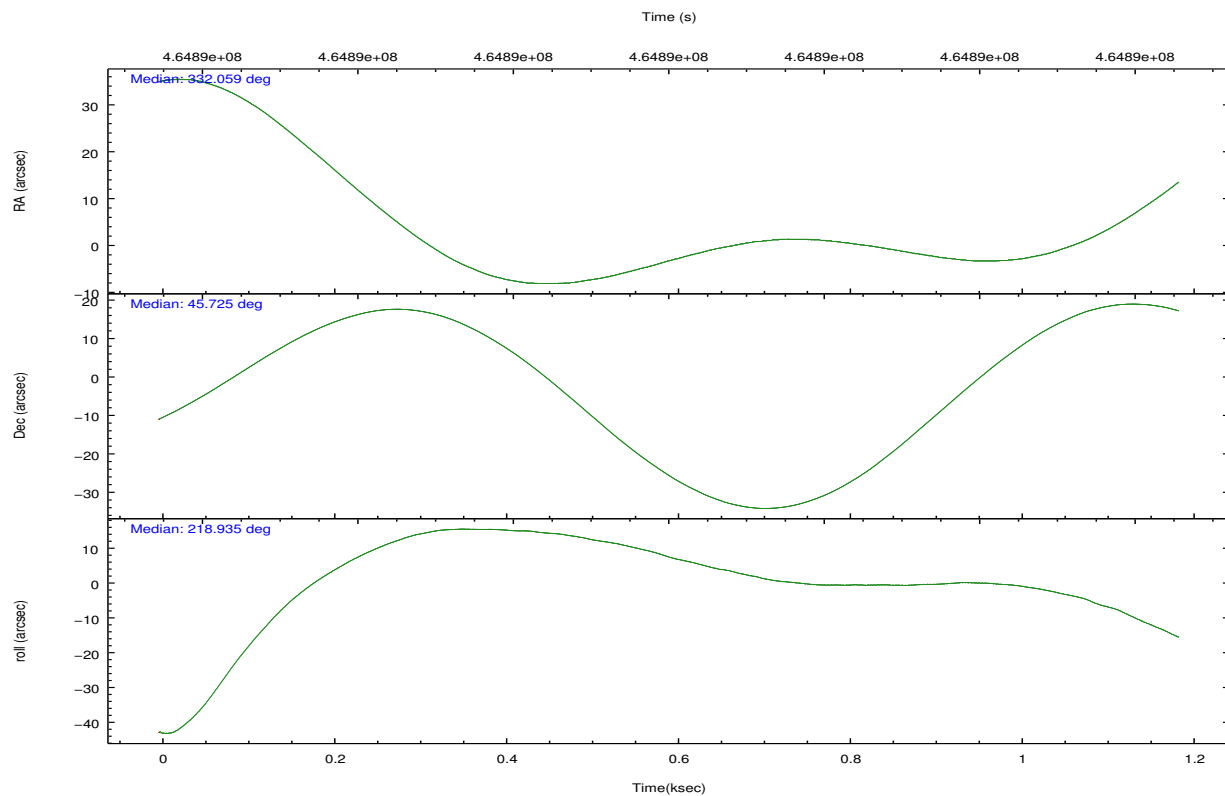
2.2 Compared Parameters

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	332.073135	332.060189822893
[deg] Pointing Dec	45.750808	45.72424774833772
[deg] Pointing Roll	218.858388	218.935015407512
[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)	464889591.184000	464889215.13458
Observation start date	2012-09-24T15:58:44	2012-09-24T15:53:35
[s] Observation end time (MET)	464890591.184000	464890724.95966
Observation end date	2012-09-24T16:15:24	2012-09-24T16:18:44

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

2.3 Aspect



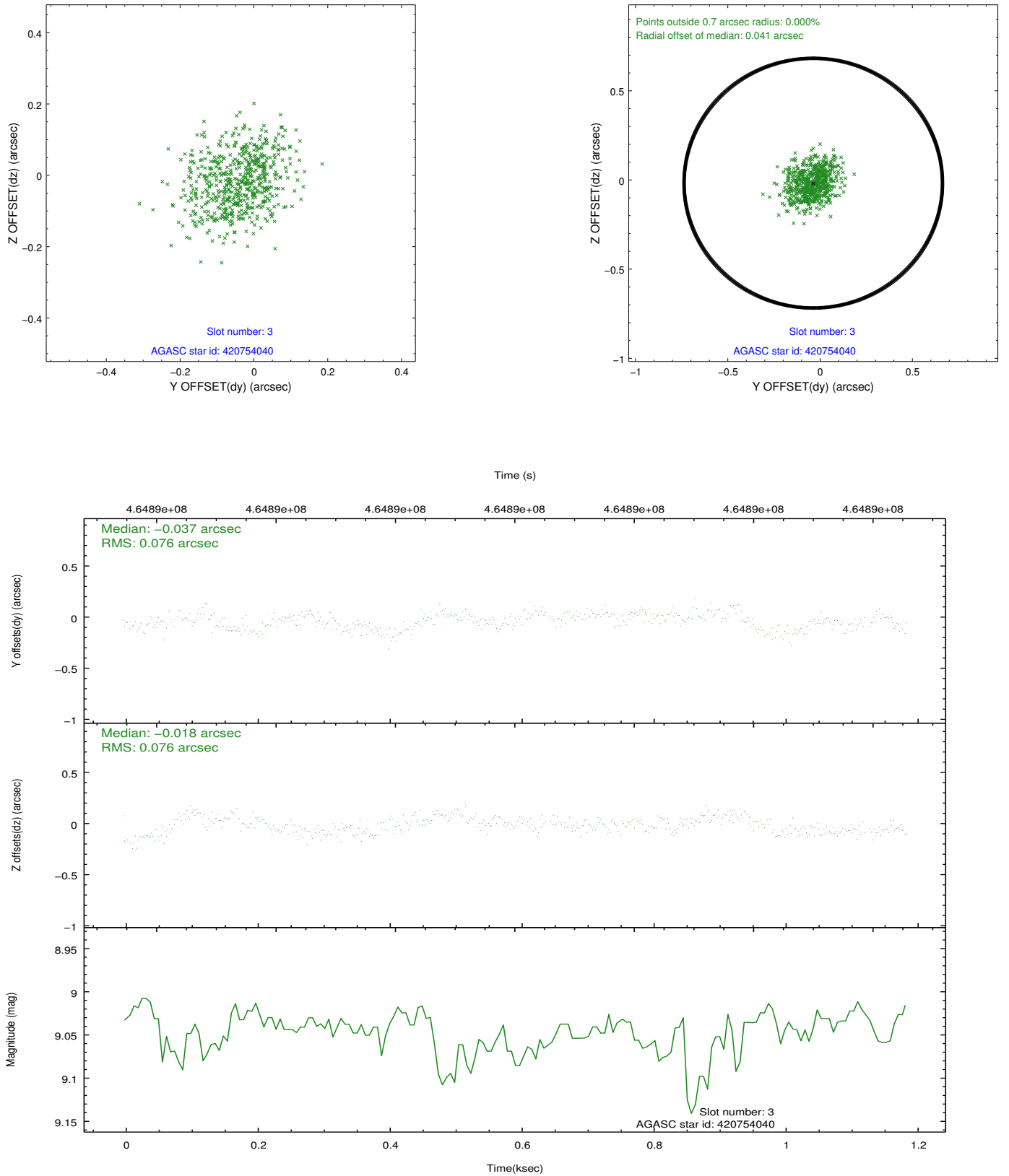


Slot Statistics

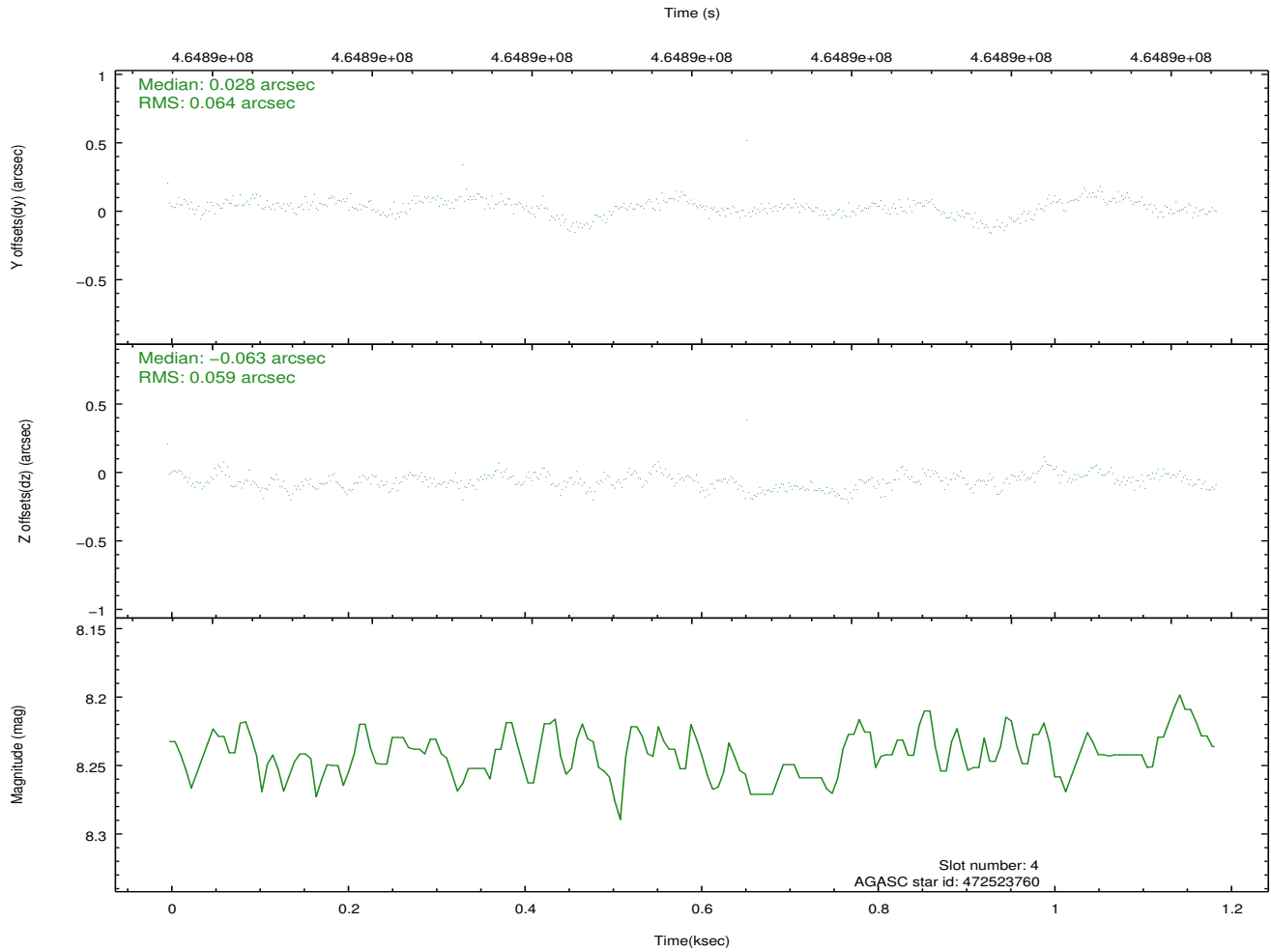
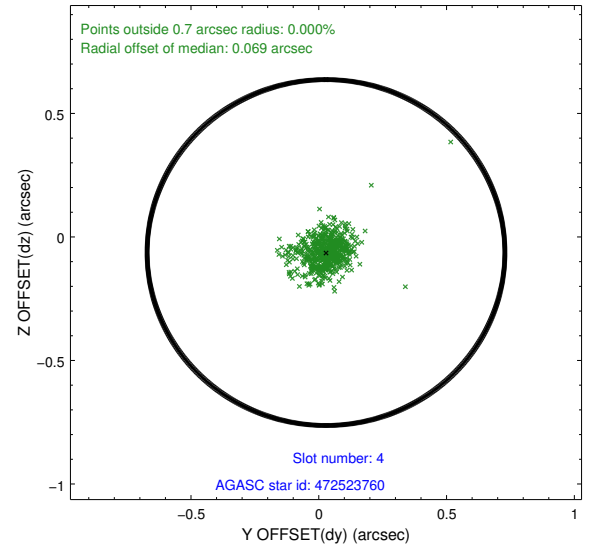
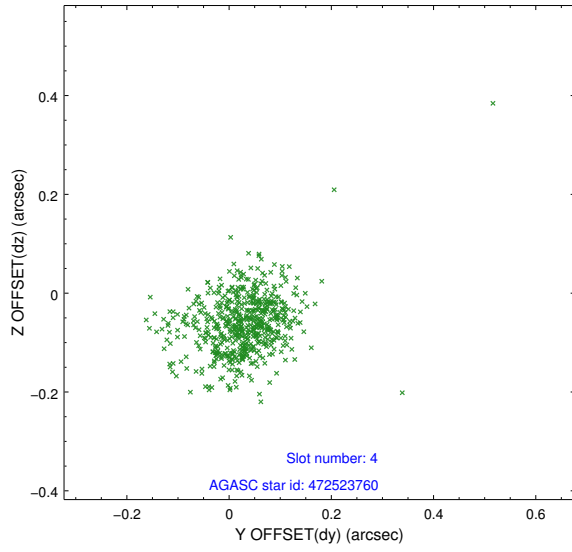
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.06	290	0.019	-0.216	0.007	0.012	0.000000	0.000000	-1174.44	-464.68
1	FID		HRC-S-2	7.05	290	0.270	-0.113	0.005	0.009	0.000000	0.000000	1221.42	-458.88
2	FID		HRC-S-3	7.07	290	0.100	0.027	0.007	0.011	0.000000	0.000000	-1172.84	563.50
3	GUIDE	used	420754040	9.04	572	-0.037	-0.018	0.114	0.182	331.917939	44.882543	2269.56	2188.41
4	GUIDE	used	472523760	8.24	580	0.028	-0.063	0.082	0.146	331.645363	45.403260	1631.01	299.74
5	GUIDE	used	472533912	9.13	580	0.122	0.293	0.130	0.209	331.791136	46.368695	-846.16	-2169.46
6	GUIDE	used	472651904	6.13	580	-0.107	-0.220	0.112	0.179	332.170077	45.742257	-170.09	174.15
7	GUIDE	used	472655152	9.41	578	0.002	0.030	0.157	0.252	332.504239	45.862991	-1095.35	364.15

2.4 Star Slots

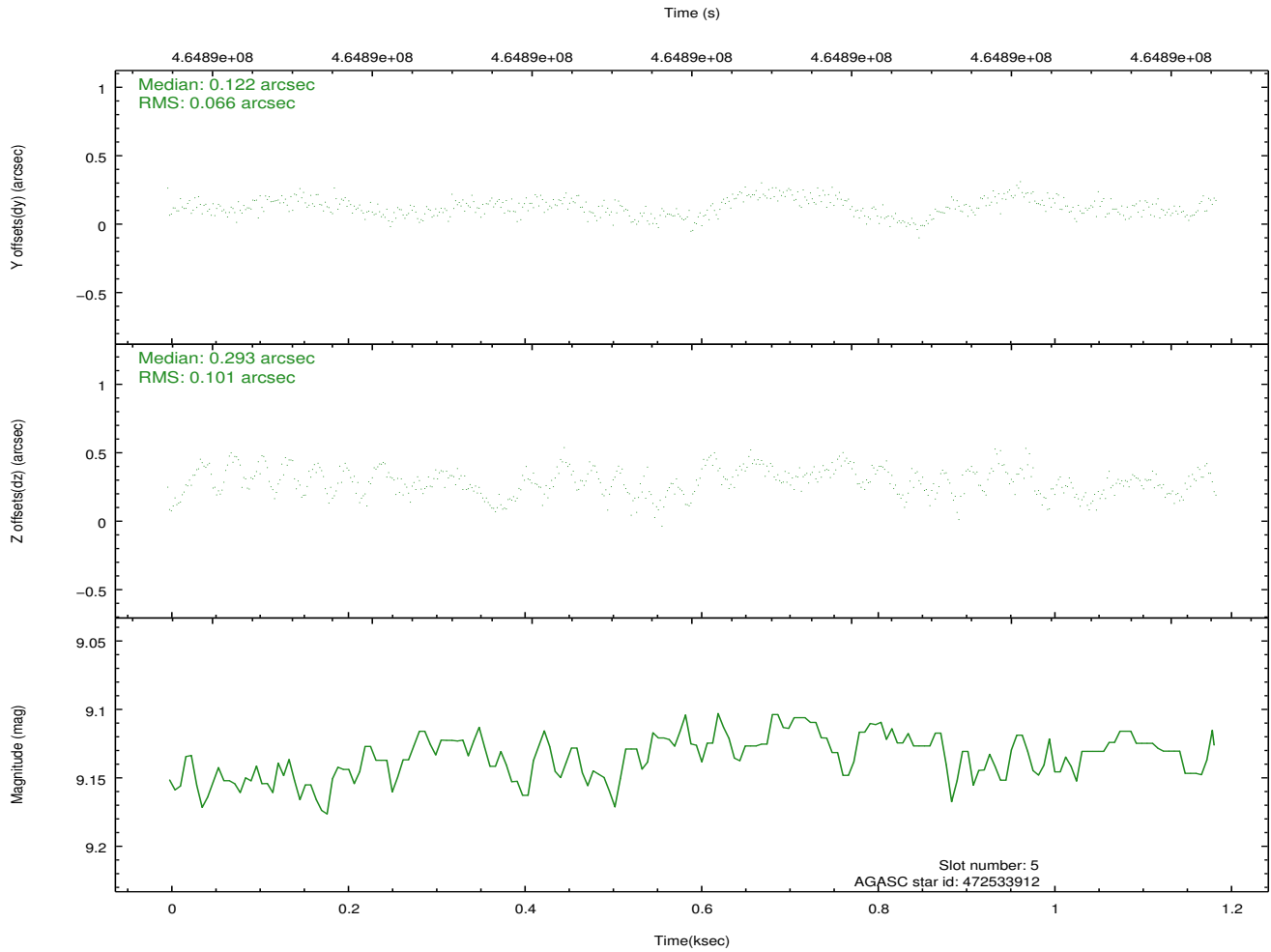
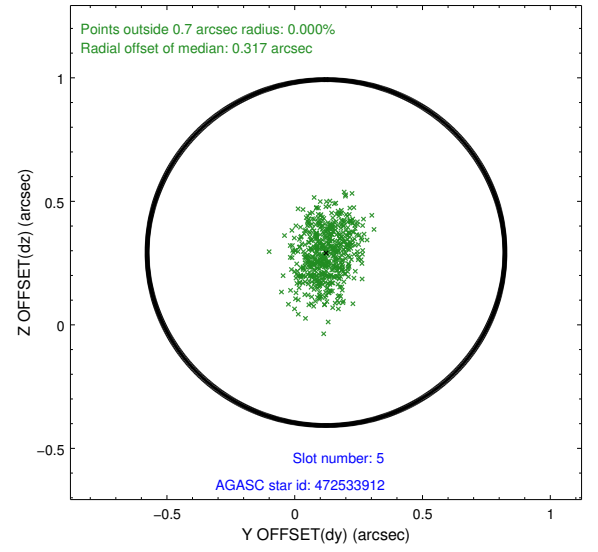
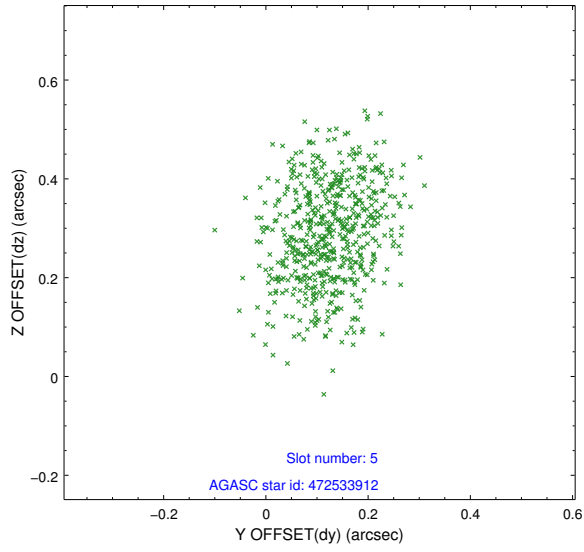
2.4.1 Slot 3



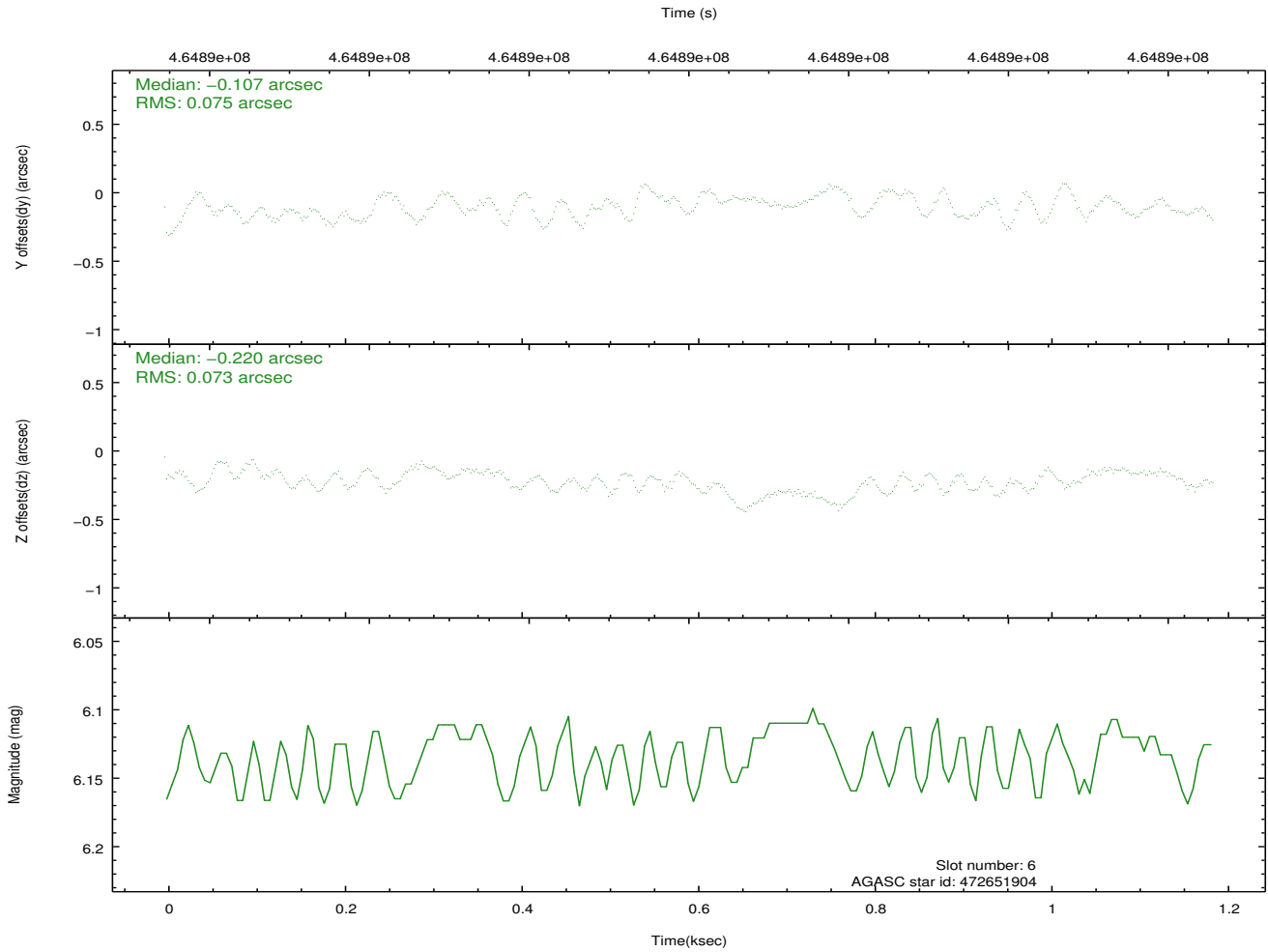
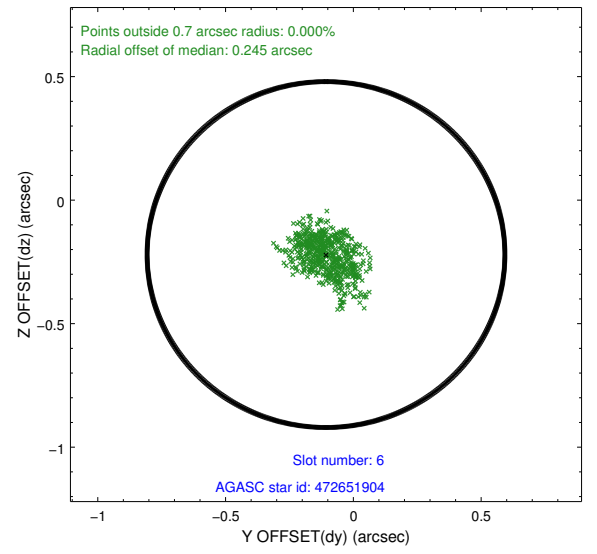
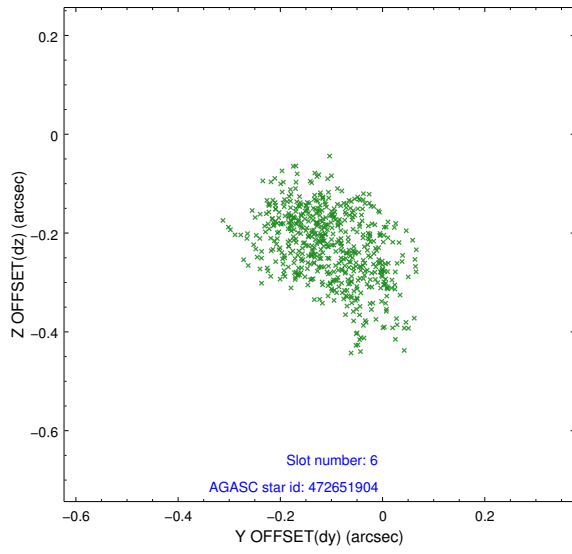
2.4.2 Slot 4



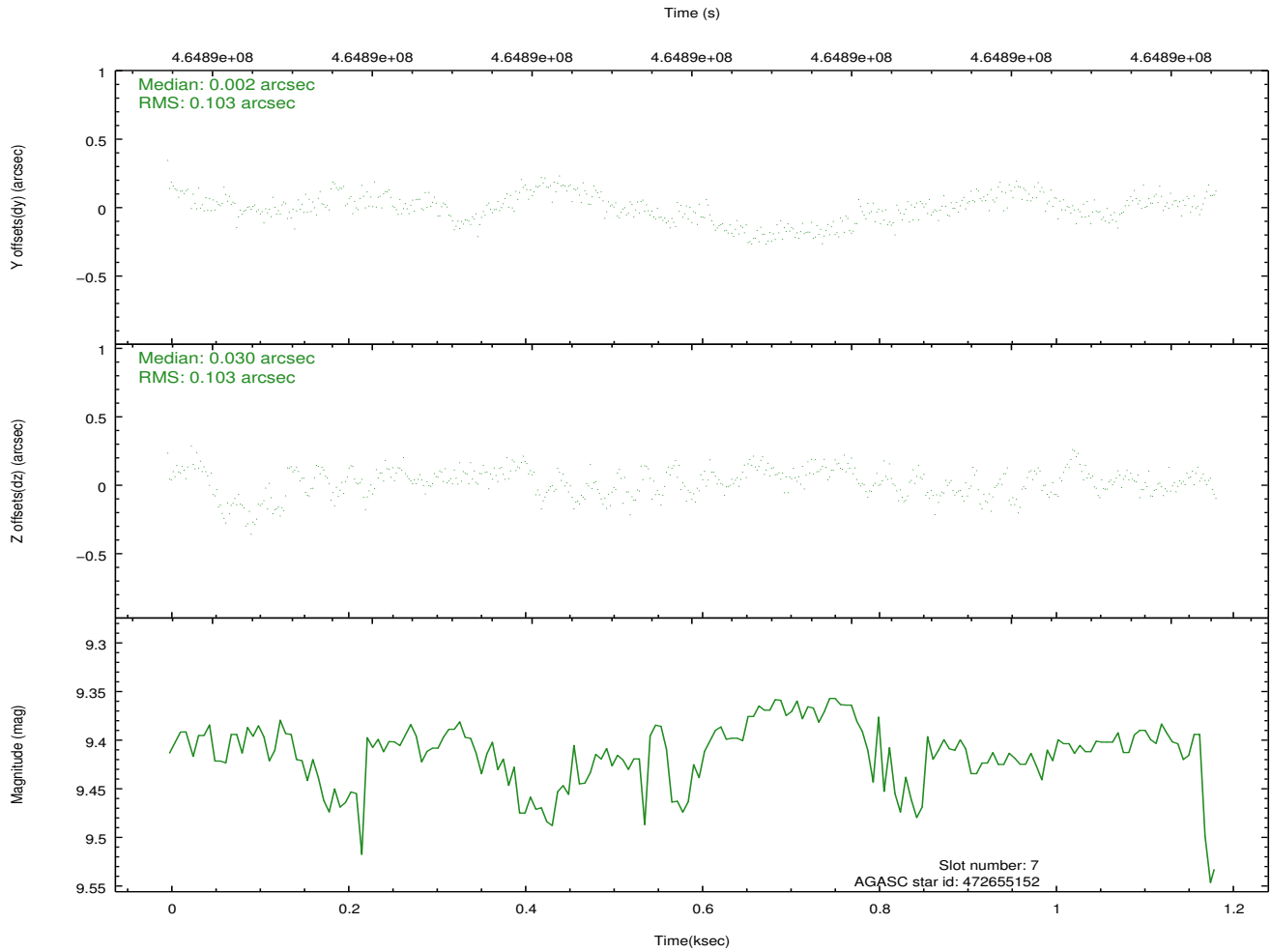
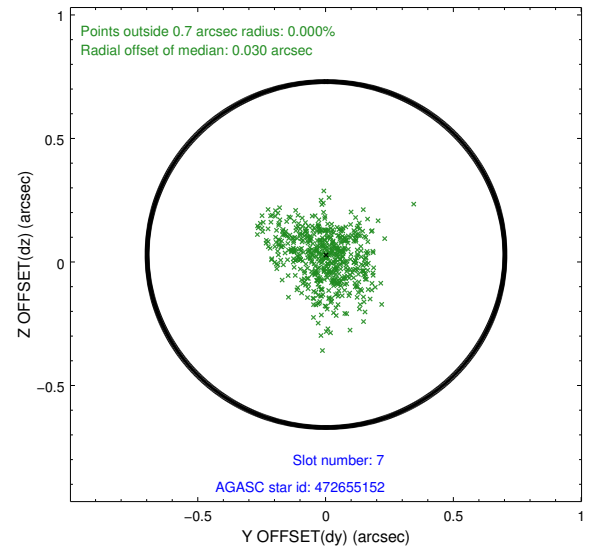
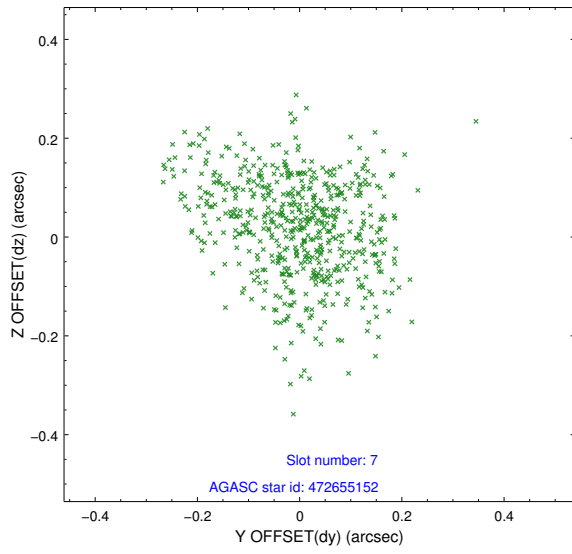
2.4.3 Slot 5



2.4.4 Slot 6

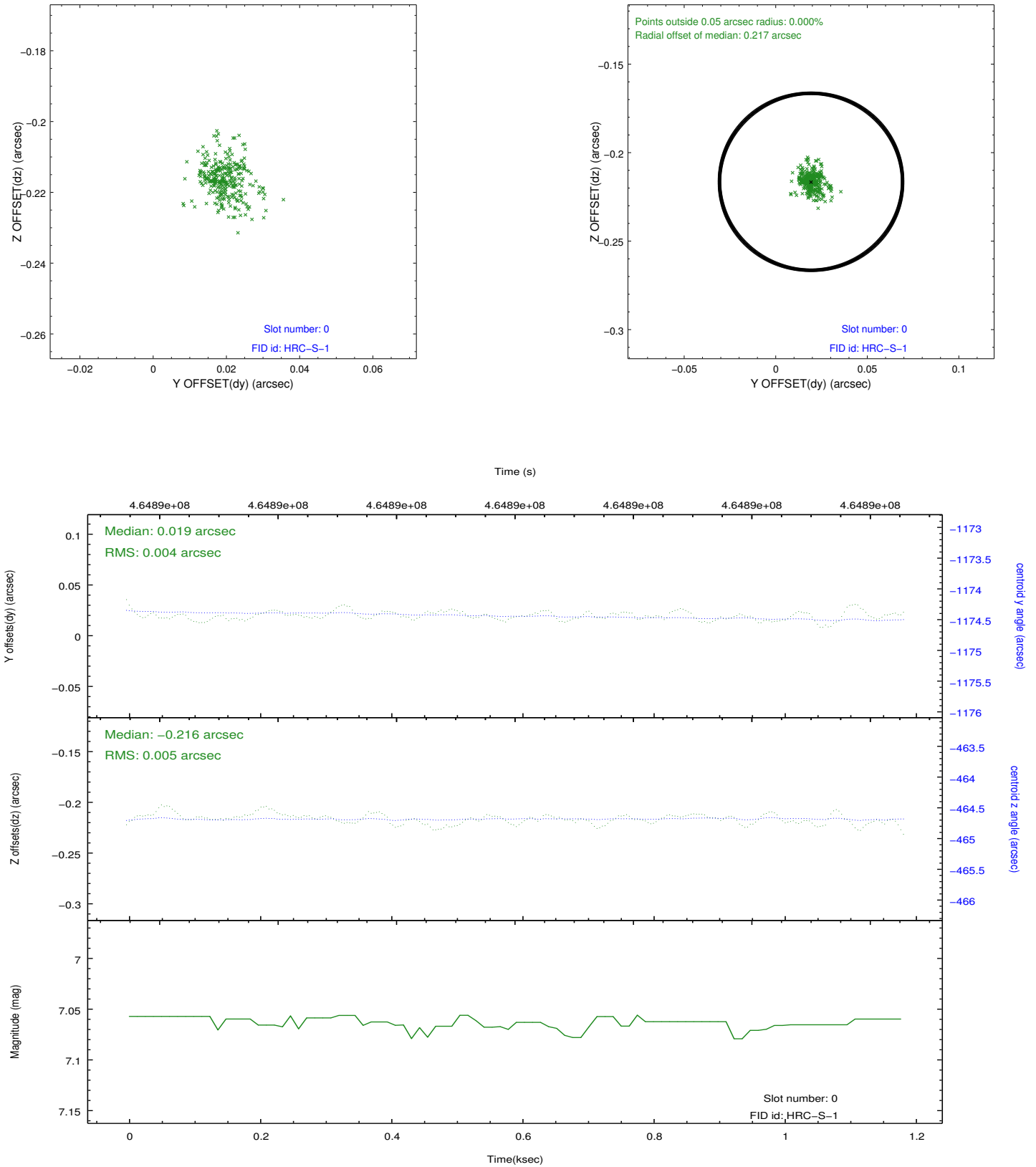


2.4.5 Slot 7

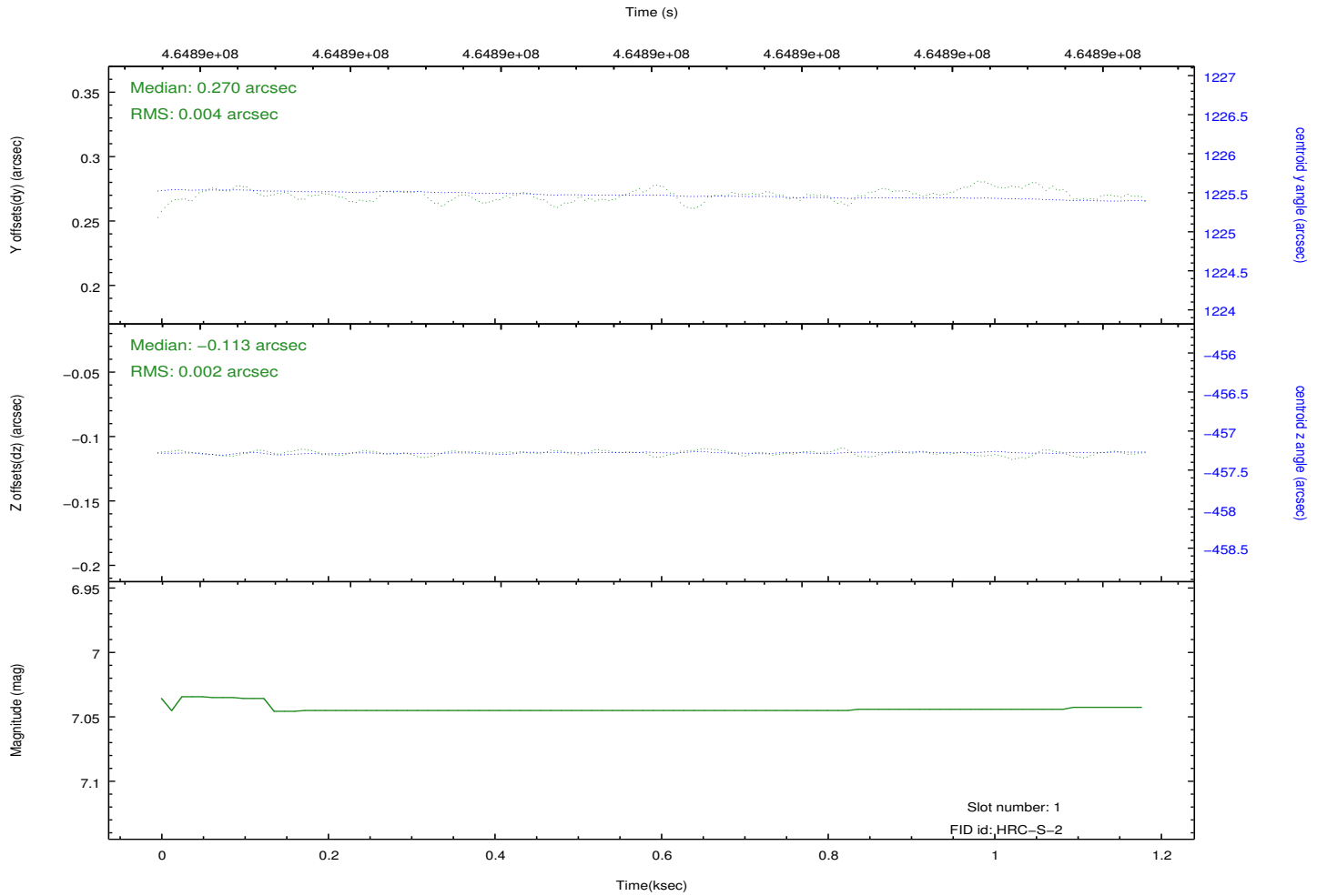
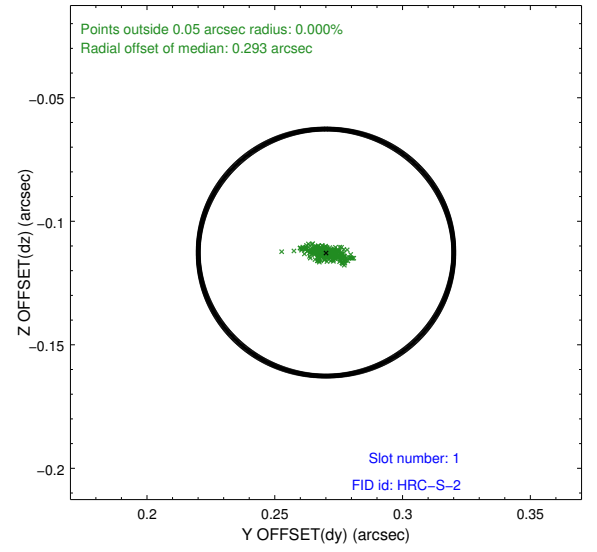
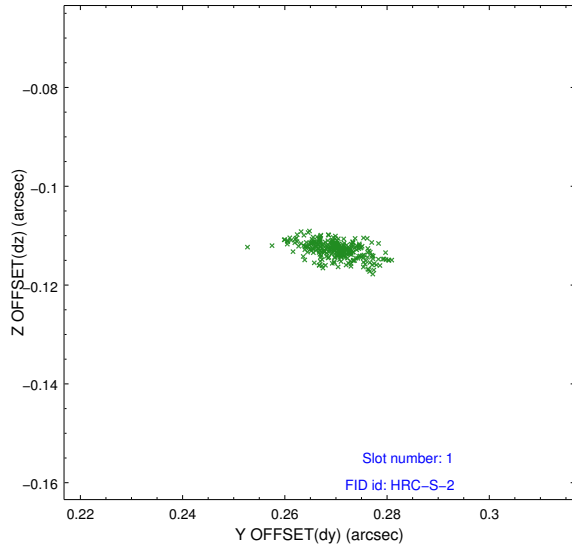


2.5 FID Slots

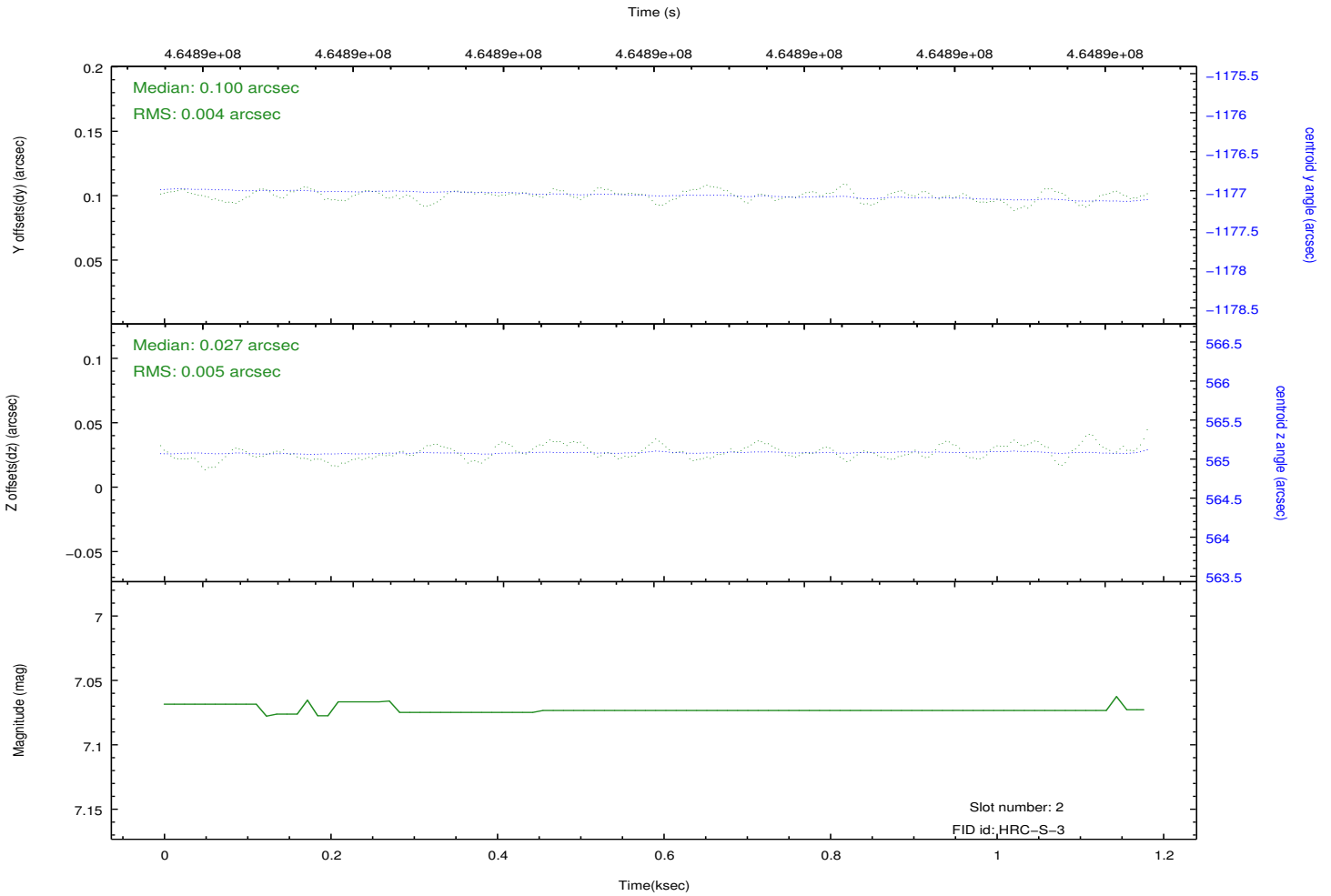
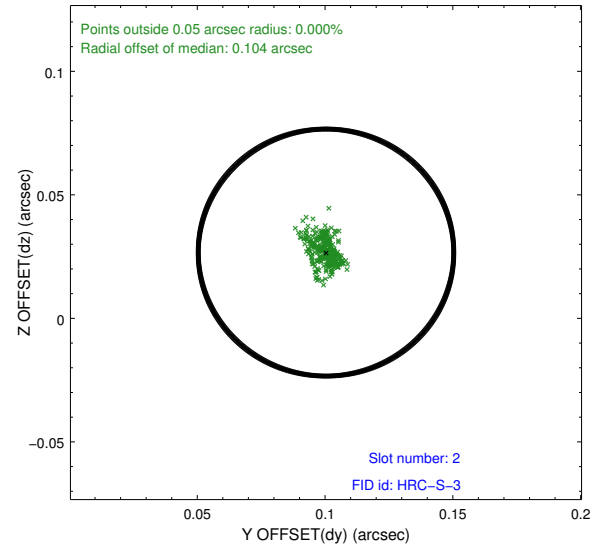
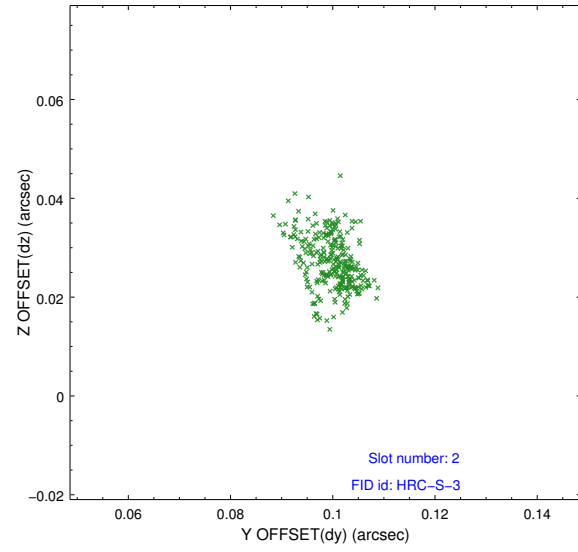
2.5.1 Slot 0



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	1.1574813121557

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.