

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14301 - L2 Version 2
Chandra X-Ray Center

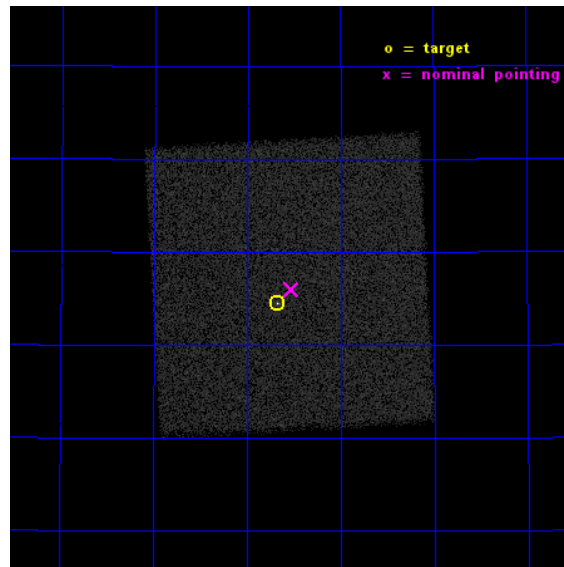
L2 Processing Date : Nov 27 2014

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1 Front

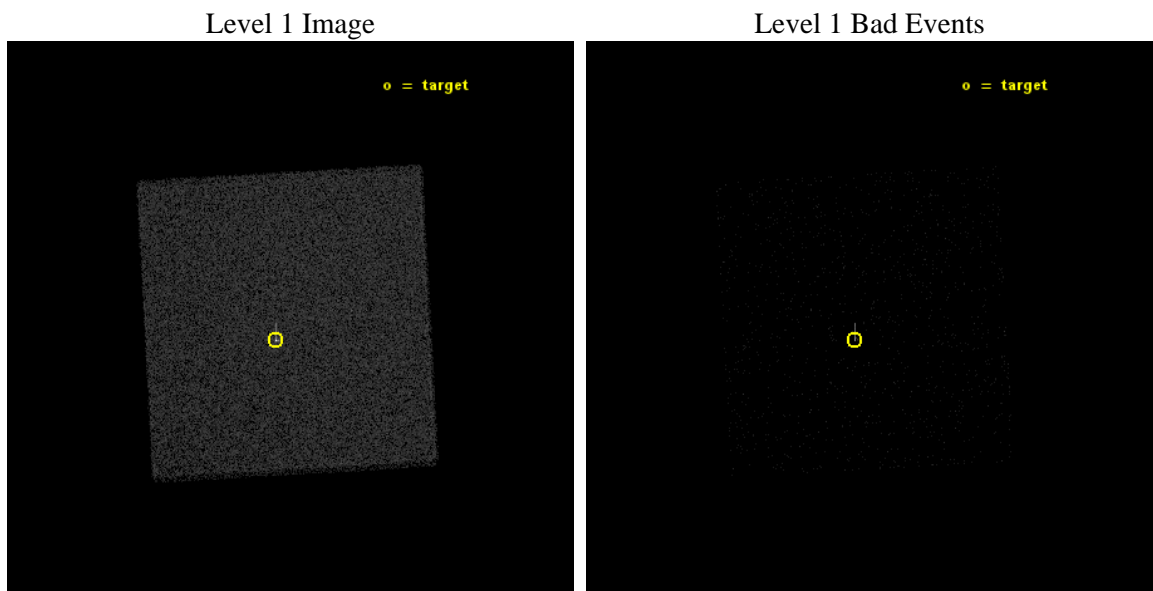
seq_num	291052	Sequence number
obs_id	14301	Observation id
title	AO-13 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.13183148026	Nominal RA [deg]
dec_nom	45.766706370897	Nominal Dec [deg]
roll_nom	221.78664261273	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1180.0313133001	[s]
livetime	1169.91290007	Ontime multiplied by DTCOR
l2events	77585	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	1180.0313133001	[s]
caldbver	4.6.4	 	l1events	133473	Number of level 1 events
date	2014-11-27T07:27:30	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

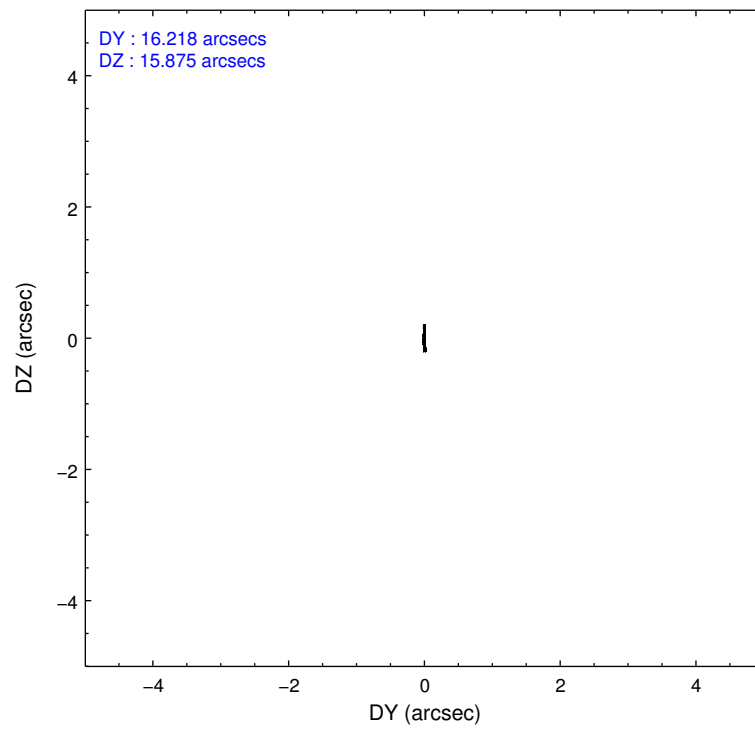
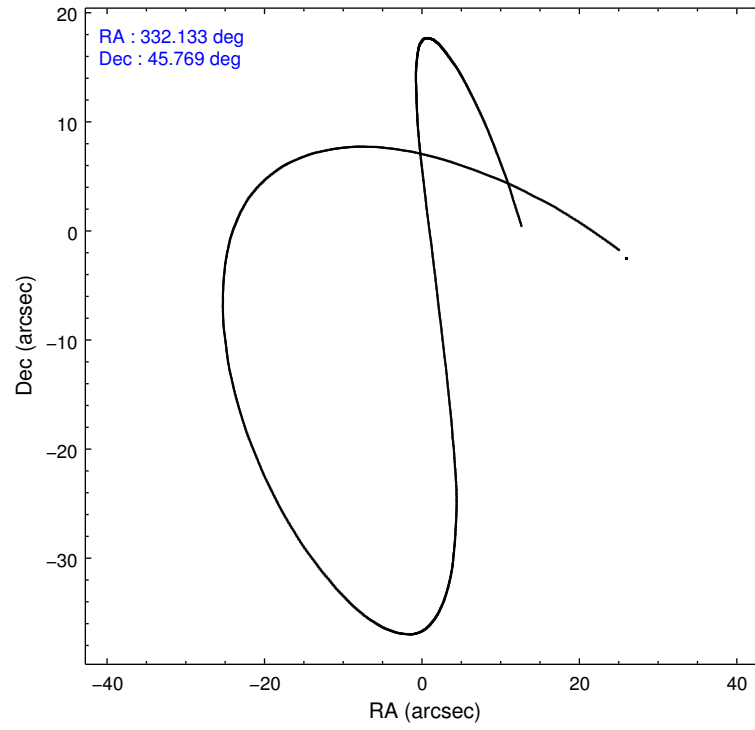
	segment 0
level 1 events	133473
rejected events	29071
rejected %	21%

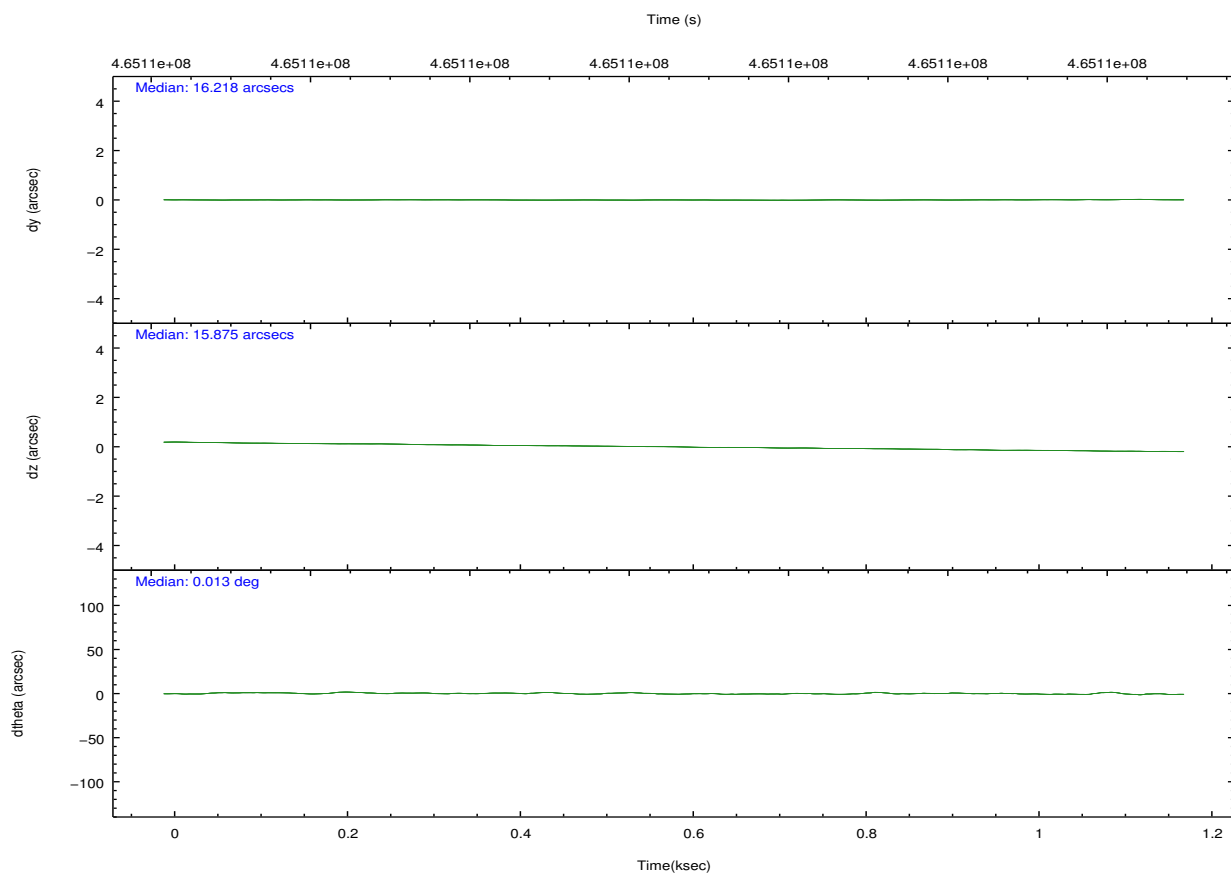
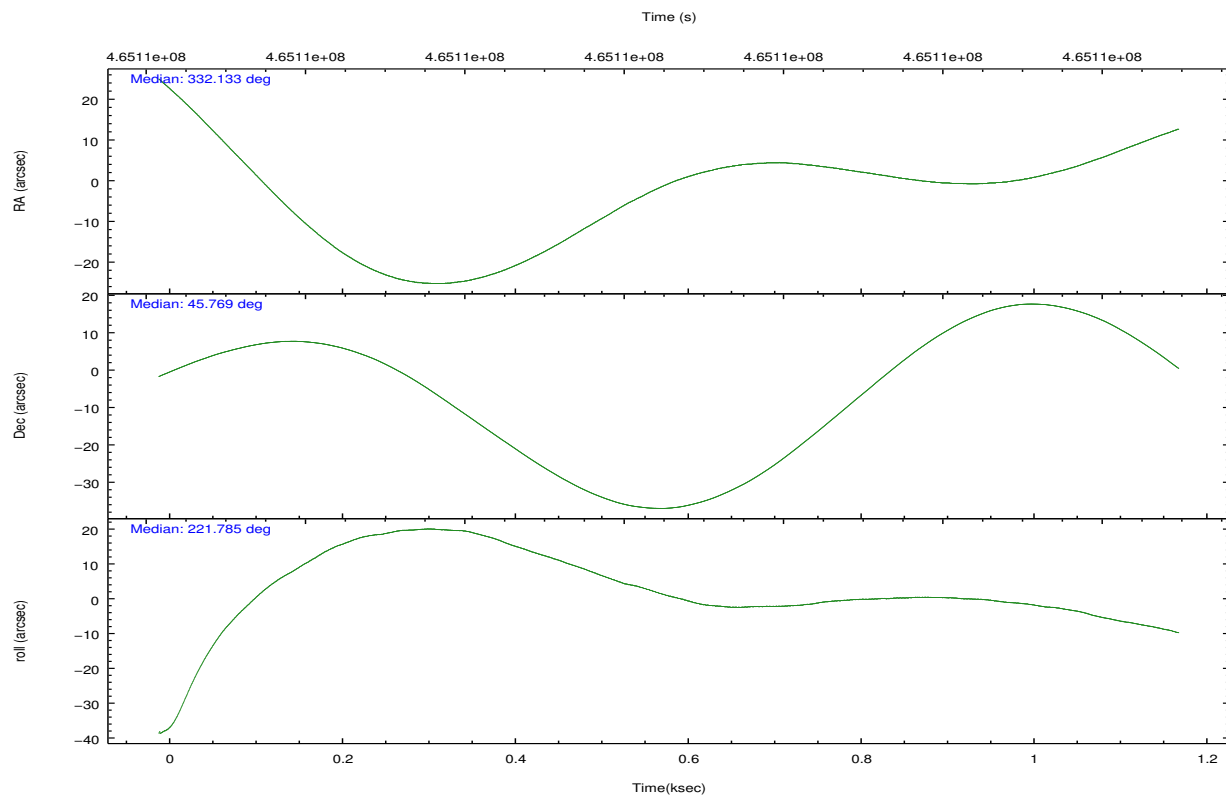
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.143759	332.1318314802593
[deg] Pointing Dec	45.791704	45.76670637089681
[deg] Pointing Roll	221.873675	221.7866426127336
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	465106248.184000	465105871.95862
Observation start date	2012-09-27T04:09:41	2012-09-27T04:04:31
[s] Observation end time (MET)	465107248.184000	465107382.2962
Observation end date	2012-09-27T04:26:21	2012-09-27T04:29:42

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

2.3 Aspect



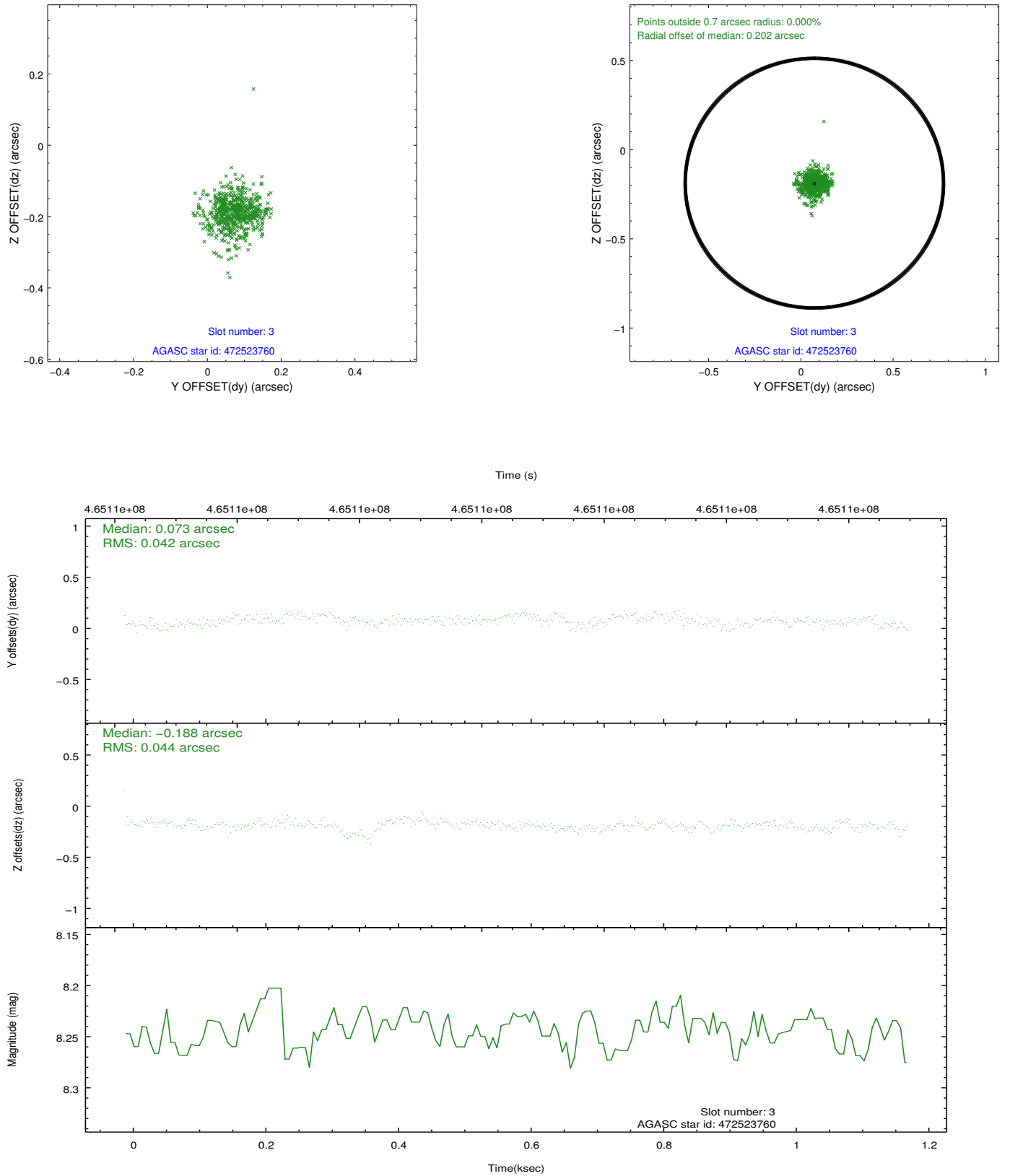


Slot Statistics

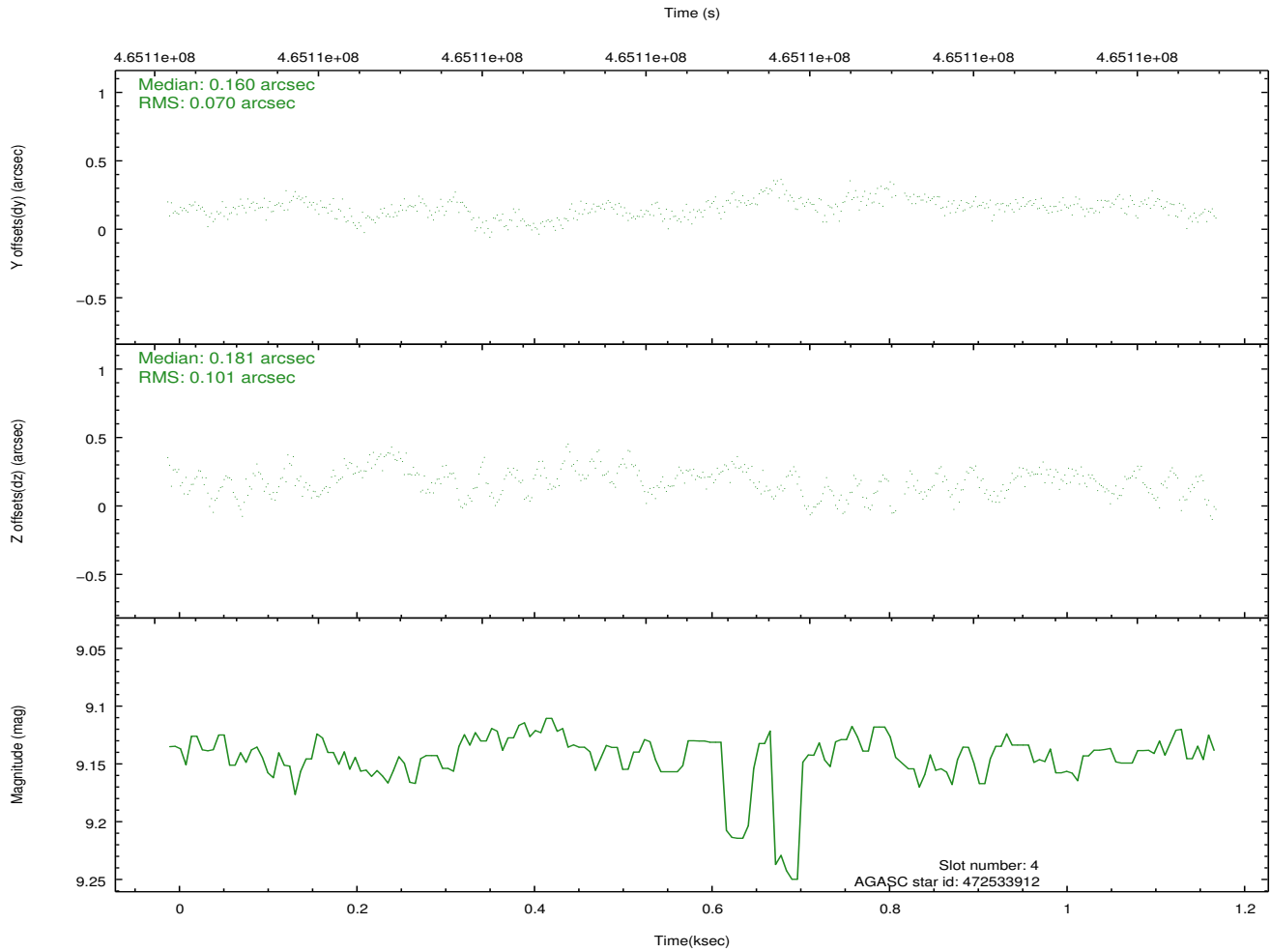
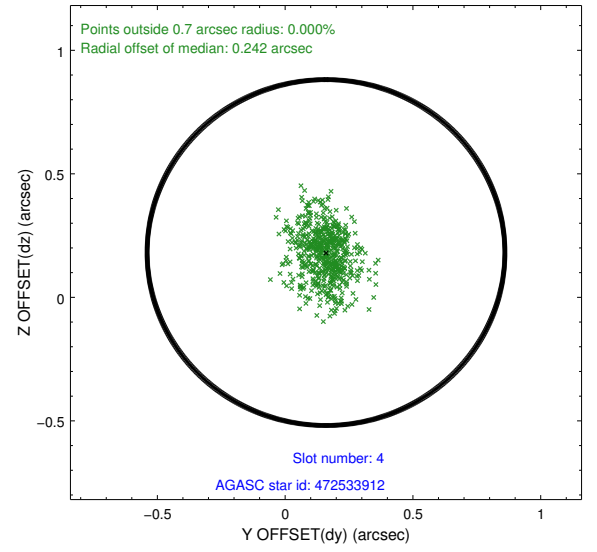
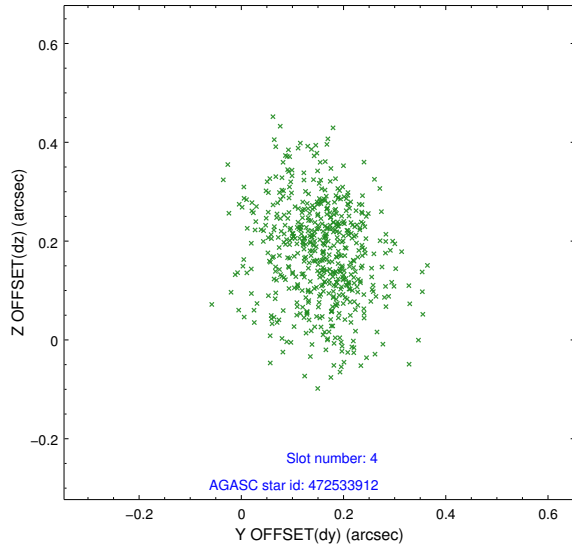
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.04	288	-0.181	-0.097	0.009	0.013	0.000000	0.000000	-772.34	-1304.01
1	FID		HRC-I-2	7.06	288	0.198	-0.060	0.010	0.016	0.000000	0.000000	837.99	-1310.20
2	FID		HRC-I-4	7.04	288	0.100	0.064	0.007	0.011	0.000000	0.000000	1273.83	993.61
3	GUIDE	used	472523760	8.24	577	0.073	-0.188	0.062	0.103	331.645363	45.403260	1870.77	201.34
4	GUIDE	used	472533912	9.14	573	0.160	0.181	0.129	0.215	331.791136	46.368695	-730.40	-2128.29
5	GUIDE	used	472655152	9.43	576	0.125	-0.079	0.123	0.211	332.504239	45.862991	-844.95	411.02
6	GUIDE	used	472525528	6.65	577	-0.338	0.039	0.068	0.117	331.551102	45.248694	2419.53	453.69
7	GUIDE	used	472659832	9.44	572	0.002	0.045	0.138	0.236	332.780399	46.098139	-1918.13	239.42

2.4 Star Slots

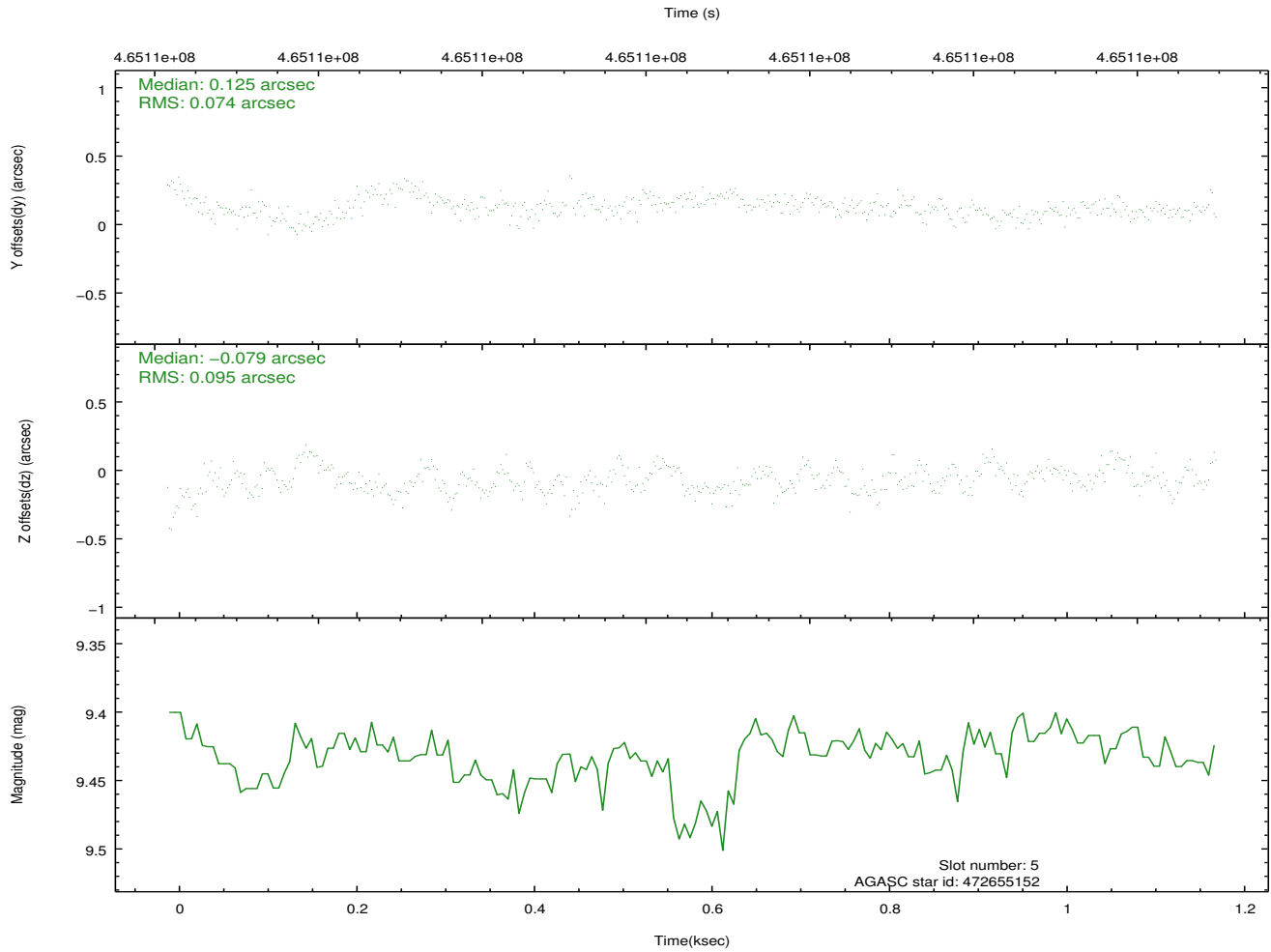
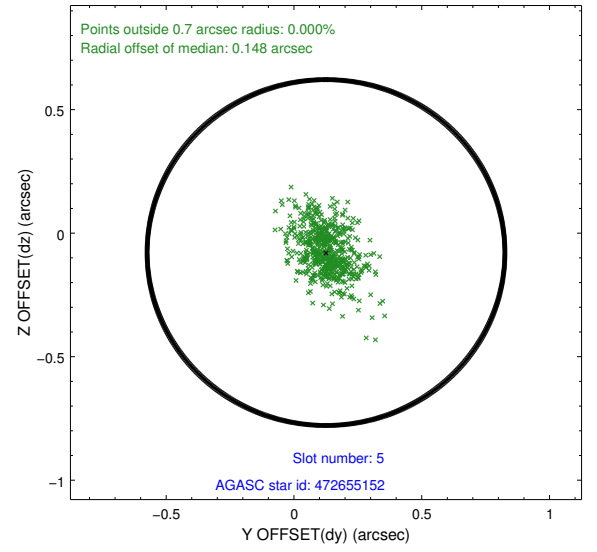
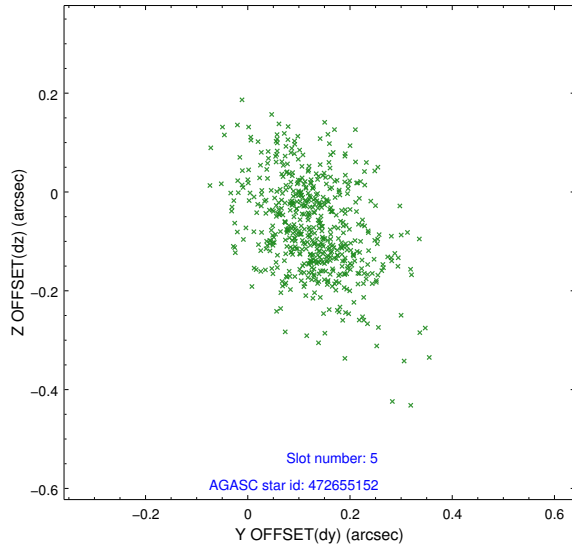
2.4.1 Slot 3



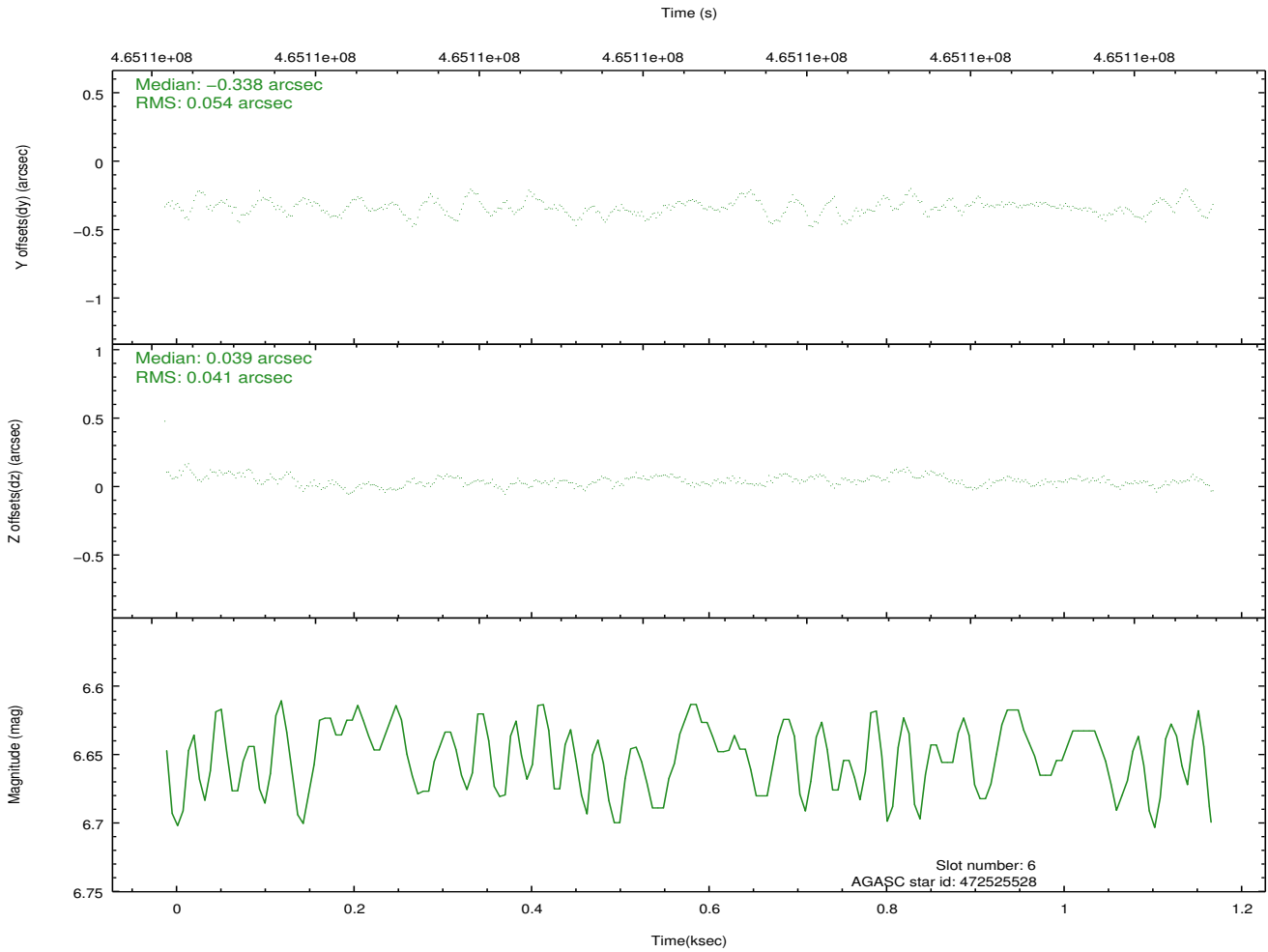
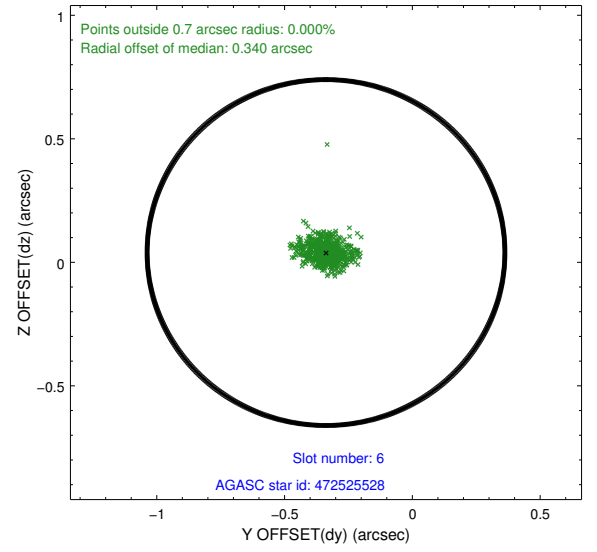
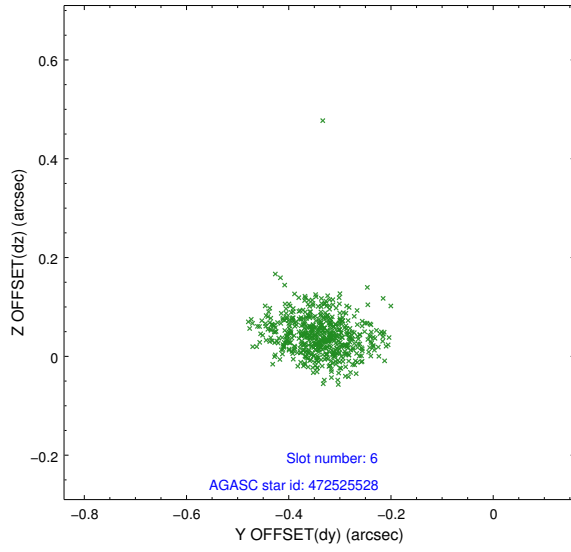
2.4.2 Slot 4



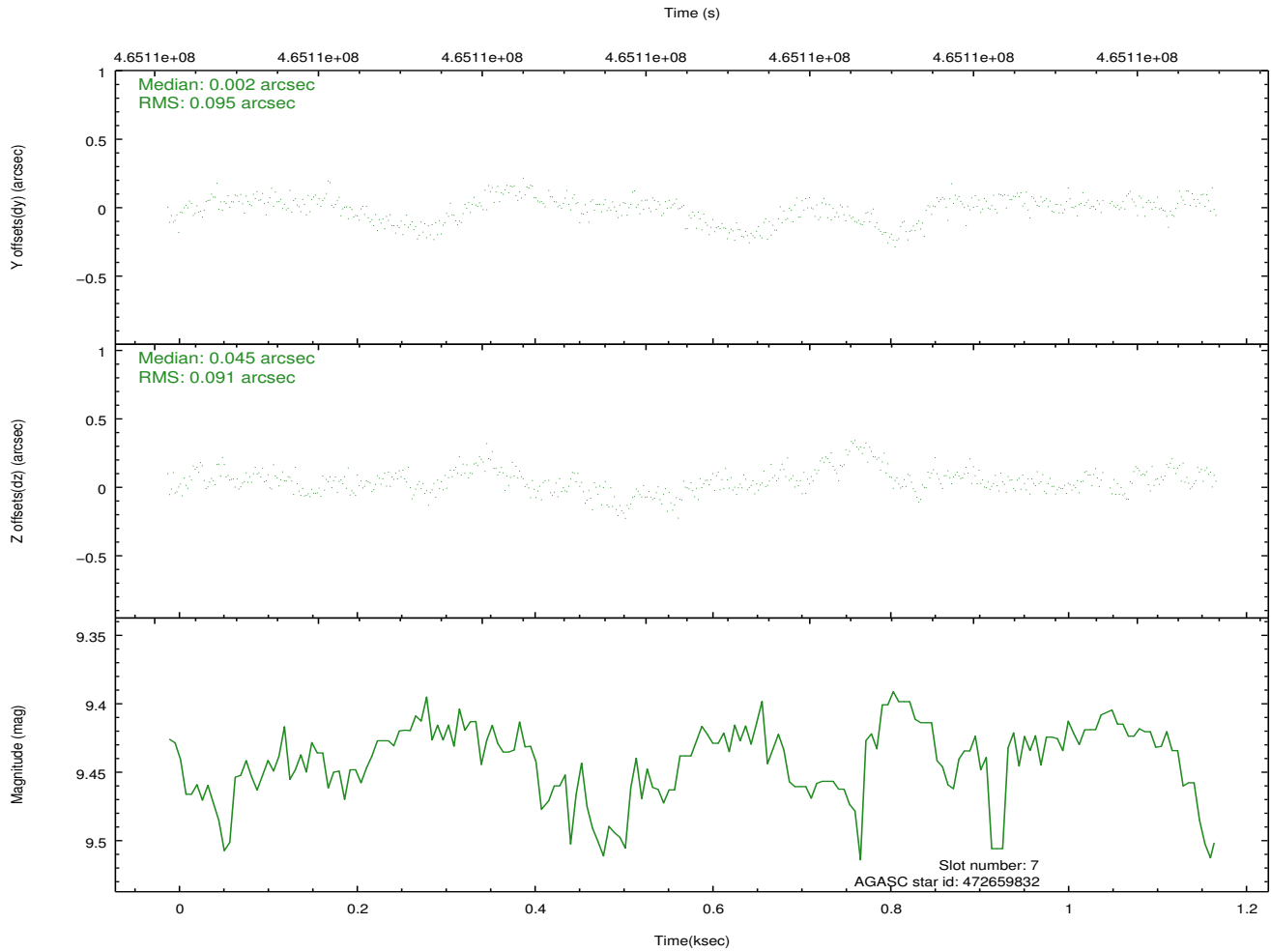
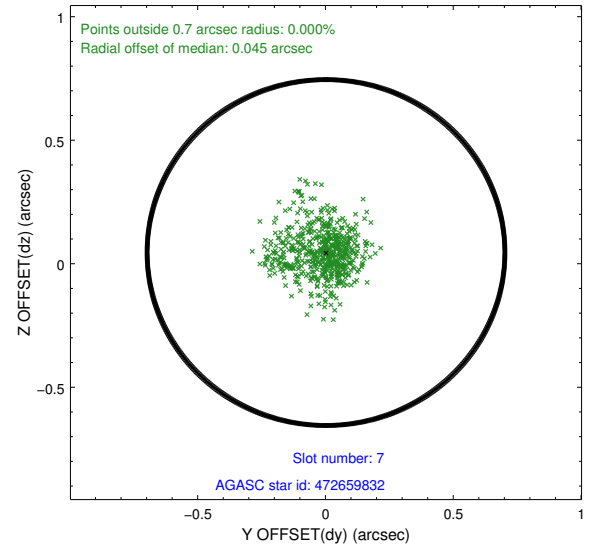
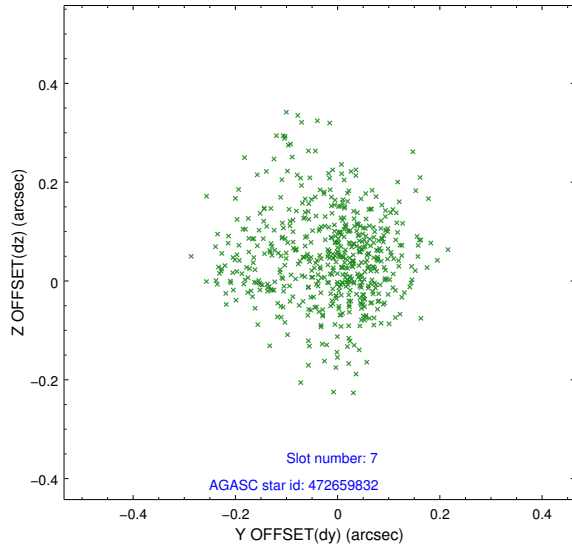
2.4.3 Slot 5



2.4.4 Slot 6

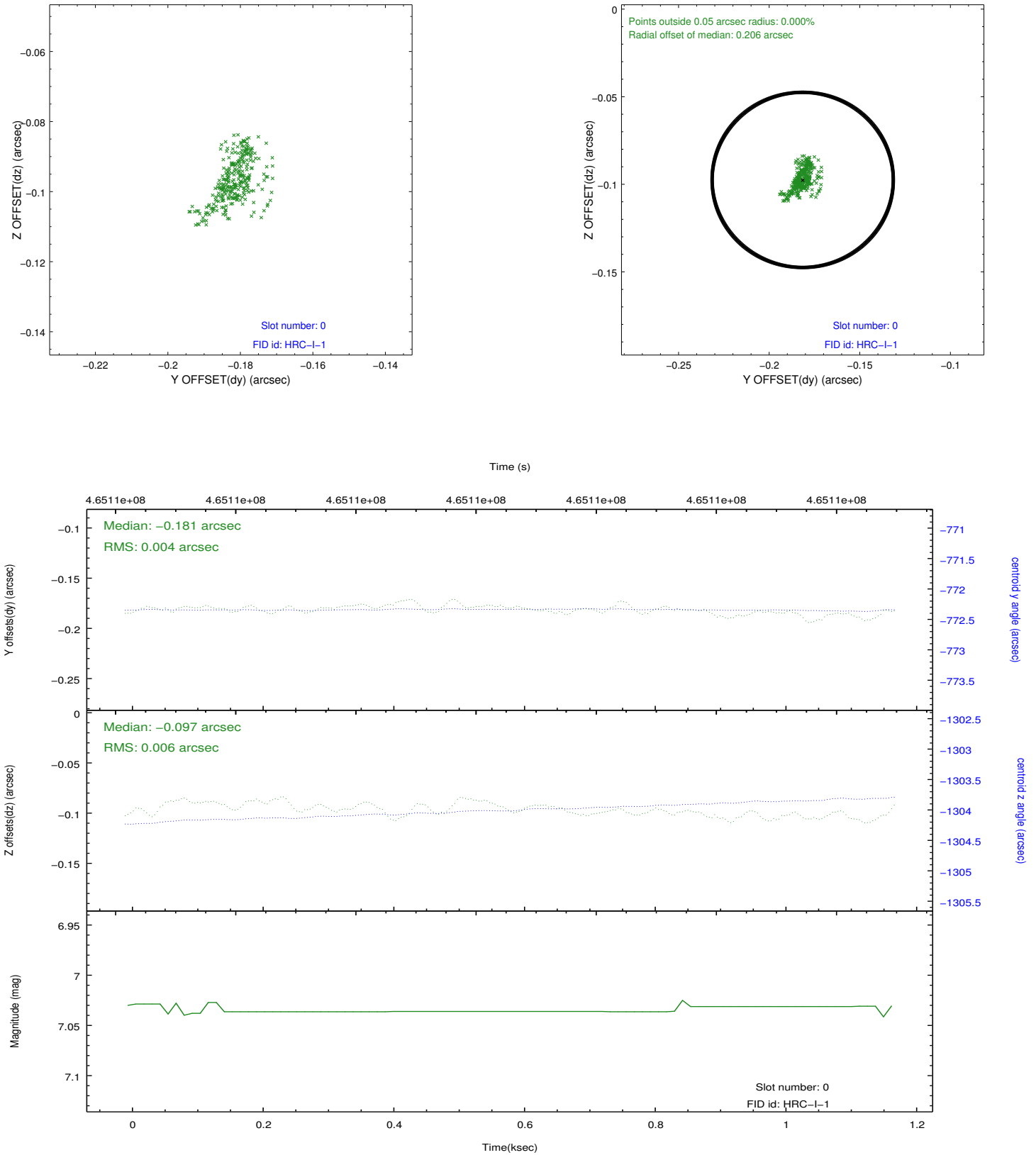


2.4.5 Slot 7

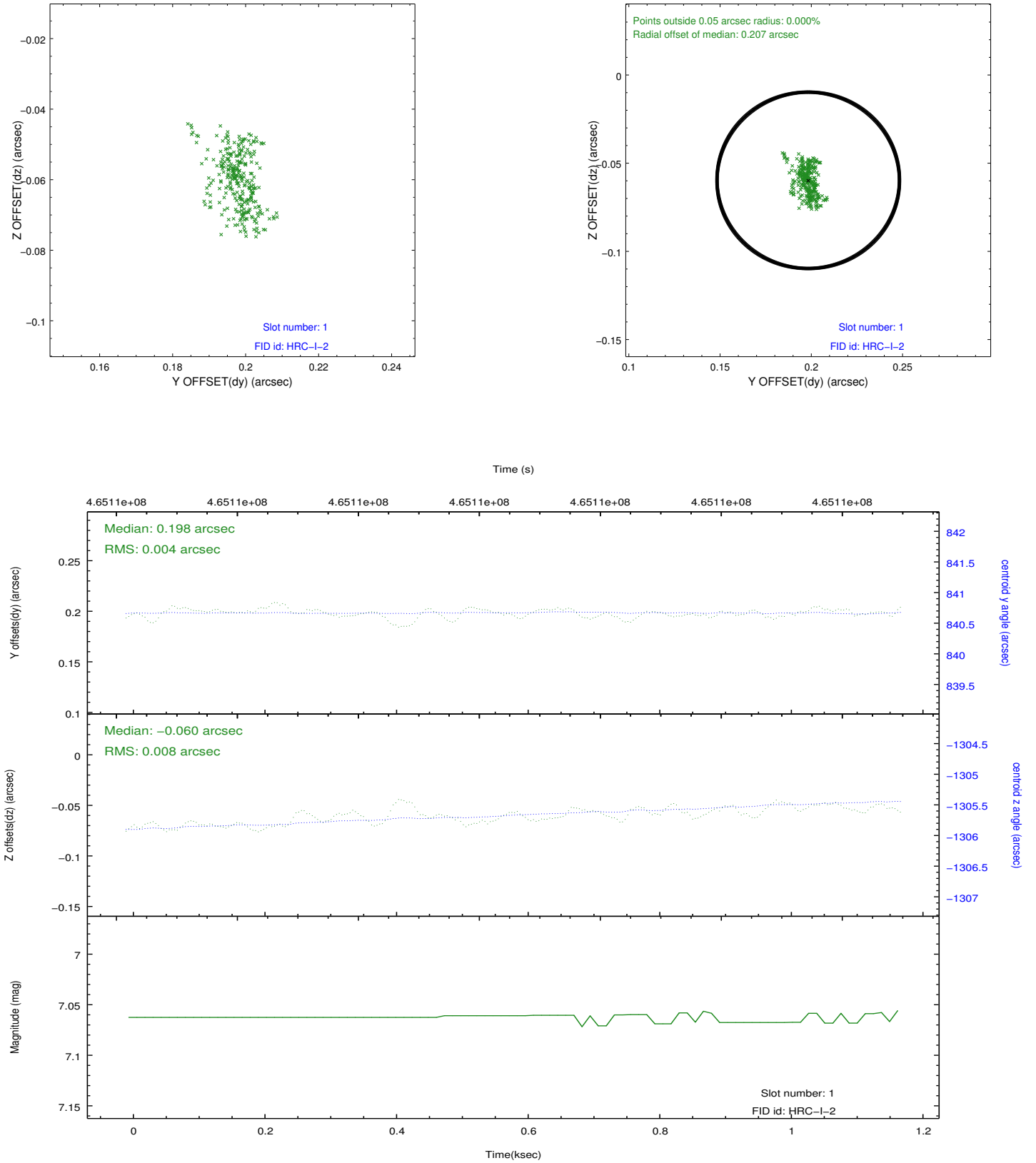


2.5 FID Slots

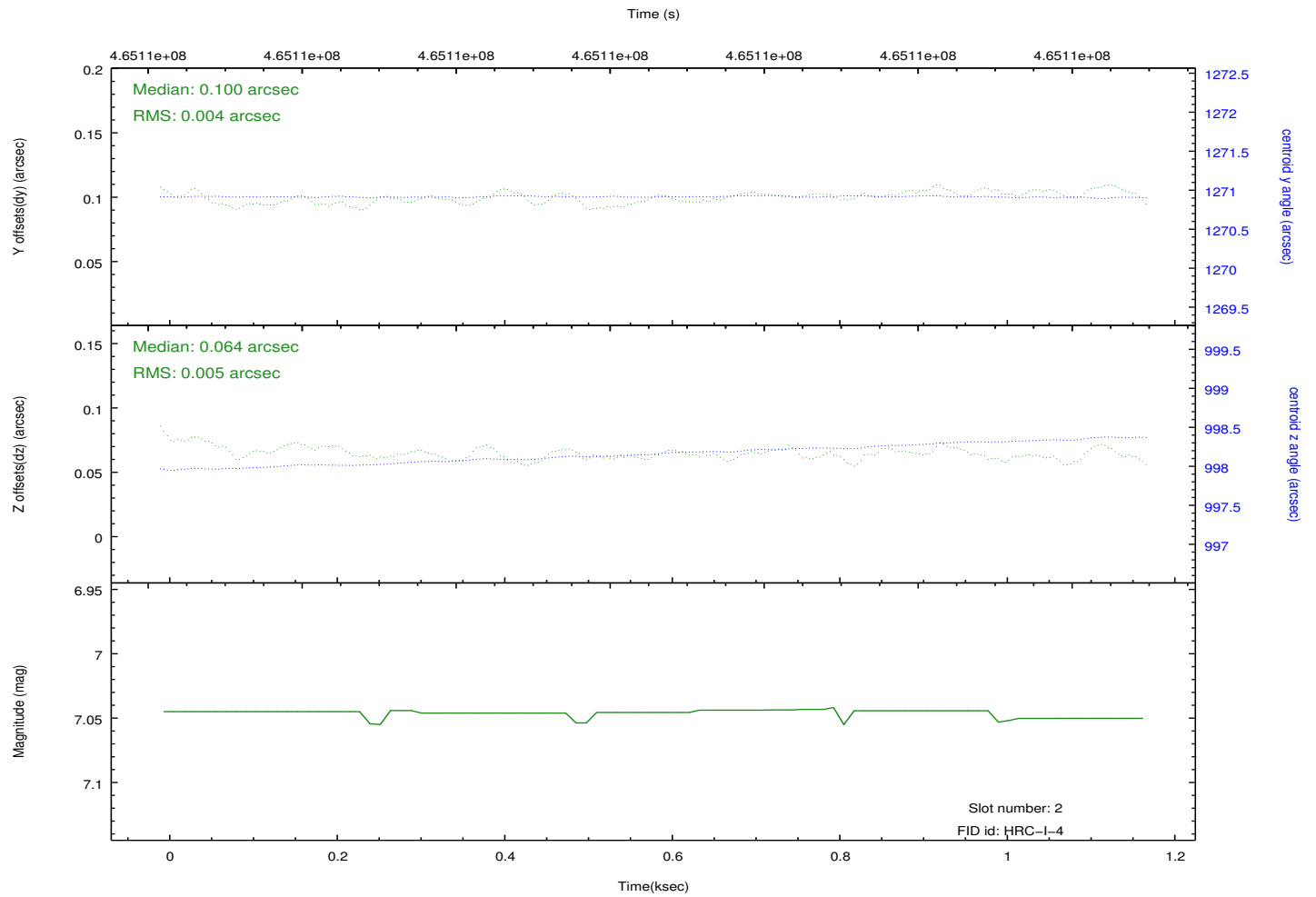
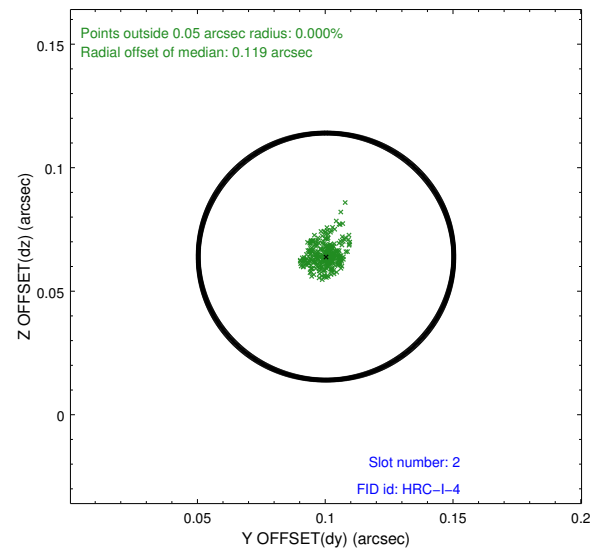
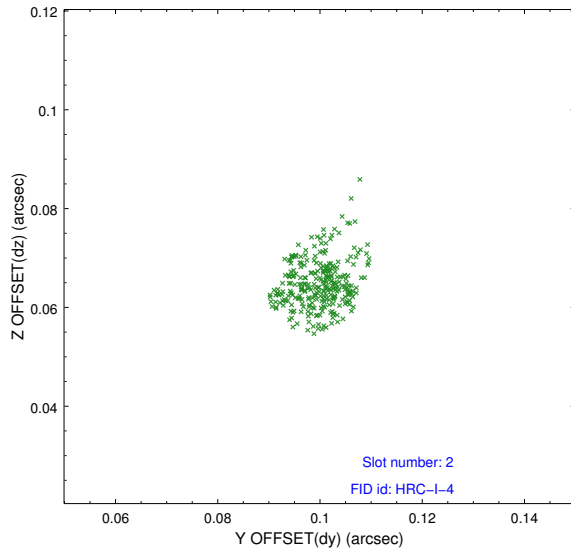
2.5.1 Slot 0



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	1.1800313133001

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.