

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14316 - L2 Version 2
Chandra X-Ray Center

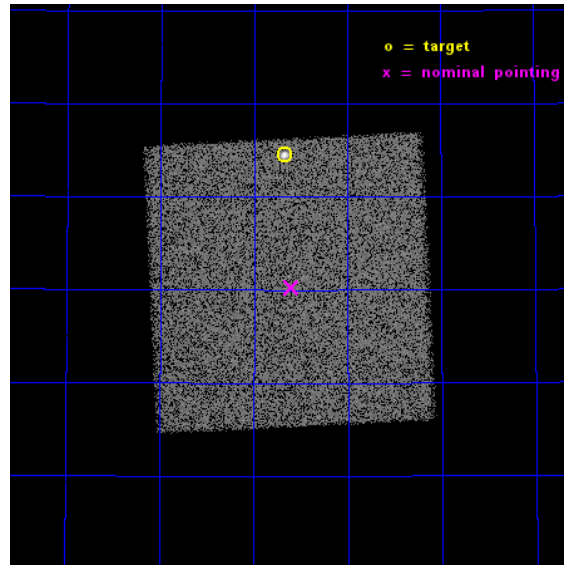
L2 Processing Date : Nov 27 2014

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1 Front

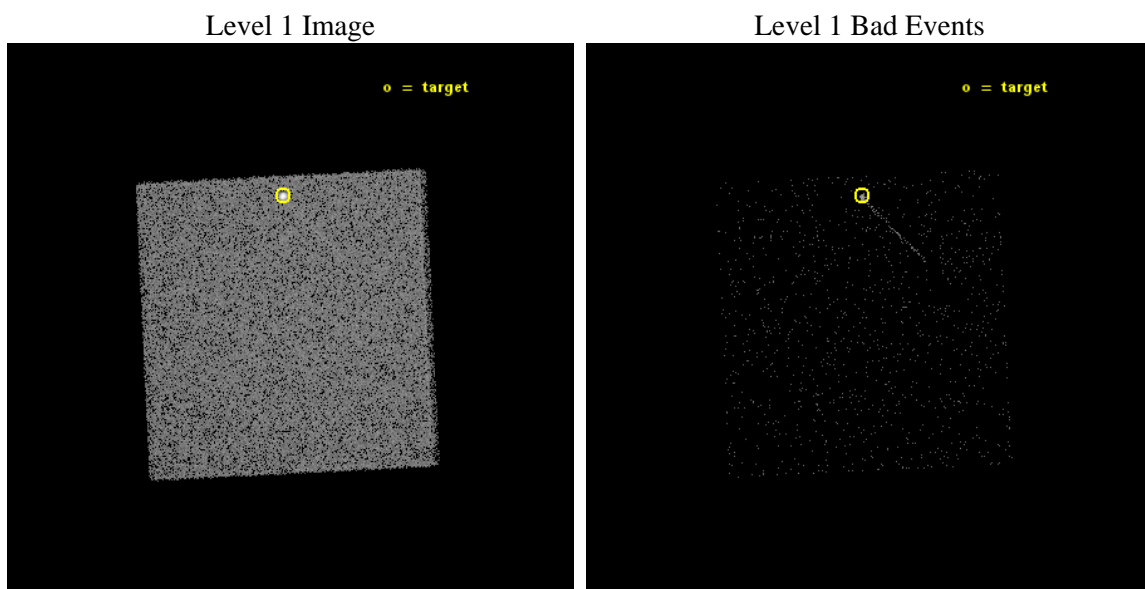
seq_num	291067	Sequence number
obs_id	14316	Observation id
title	AO-13 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14996744255	Nominal RA [deg]
dec_nom	45.504811916013	Nominal Dec [deg]
roll_nom	222.22199490663	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1184.1313135028	[s]
livetime	1174.2874010188	Ontime multiplied by DTCOR
l2events	73521	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	1184.1313135028	[s]
caldsver	4.6.4	 	l1events	127758	Number of level 1 events
date	2014-11-27T17:15:05	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

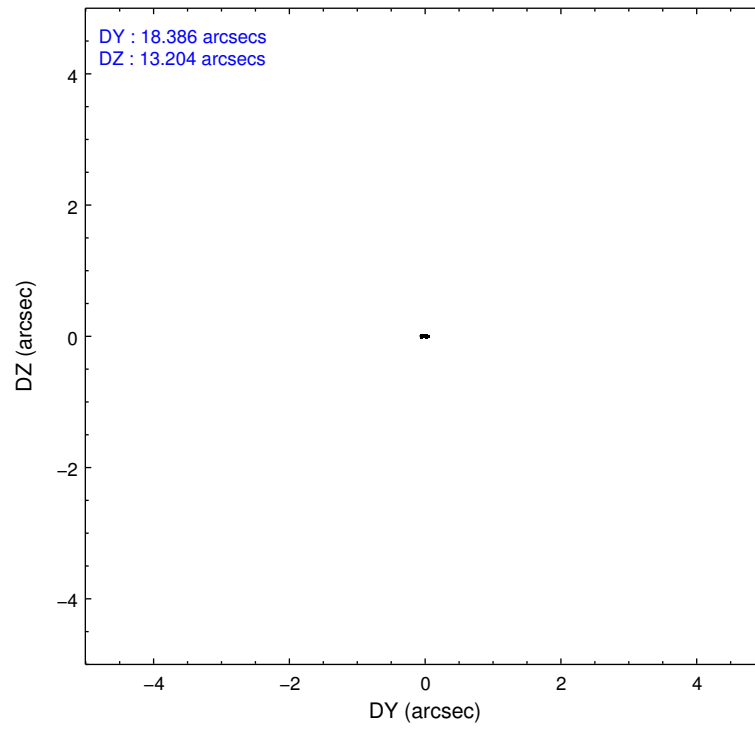
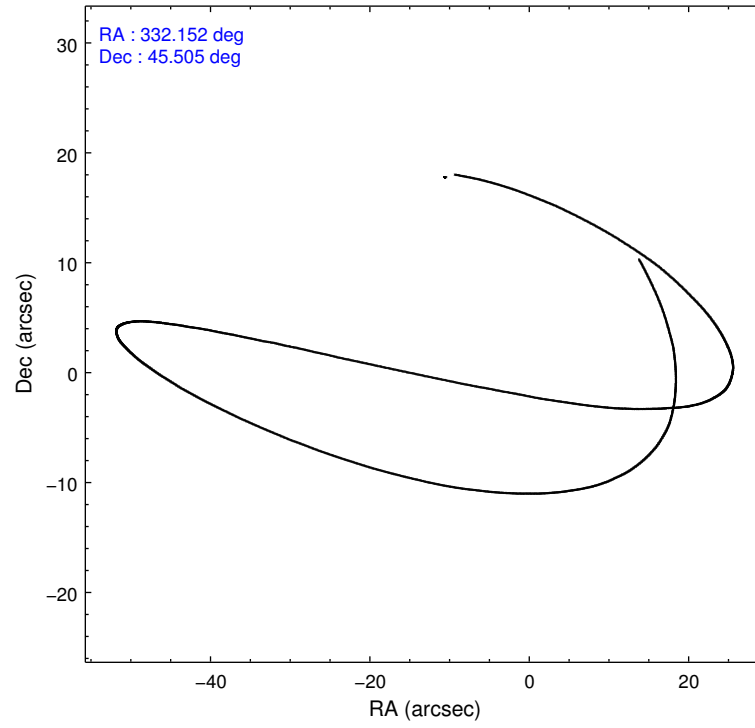
Level 1 Events

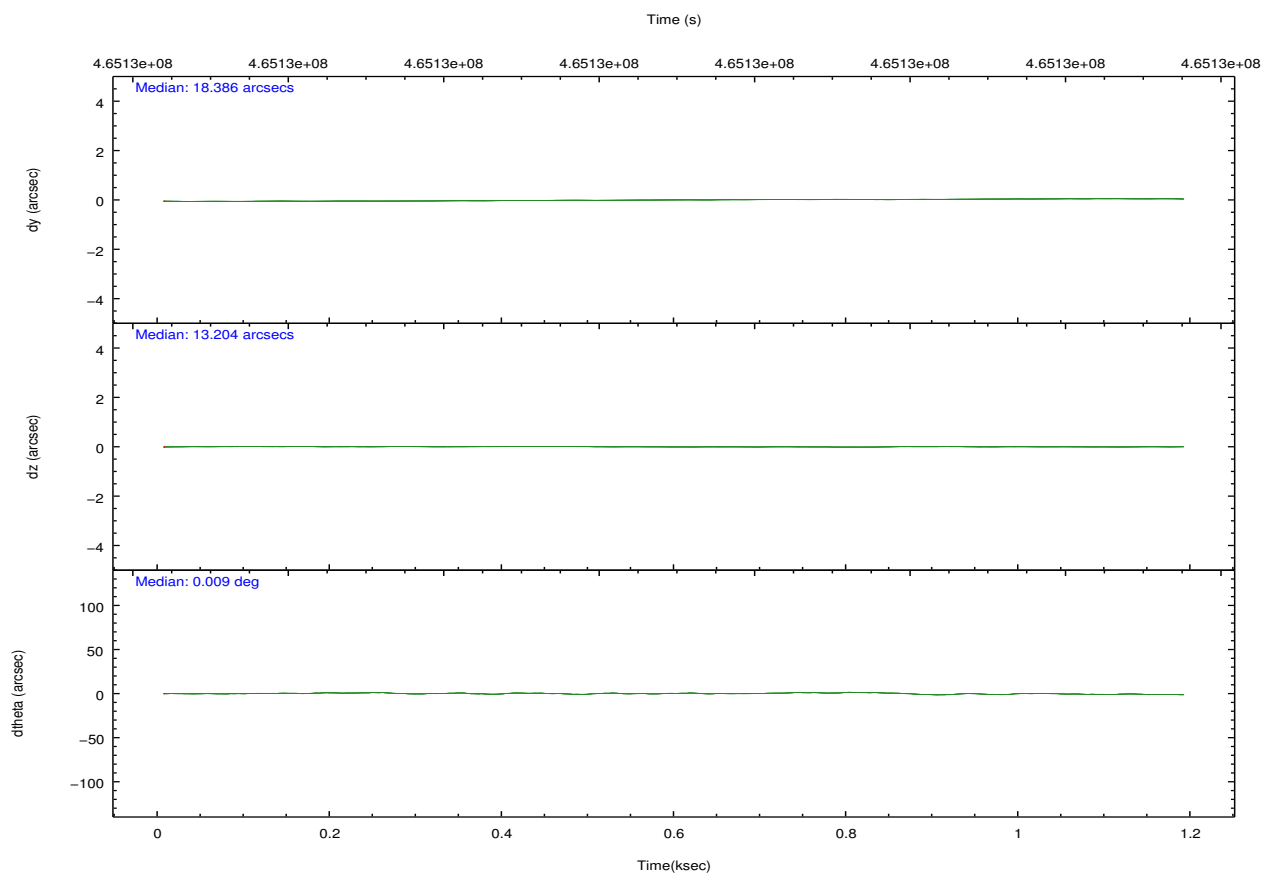
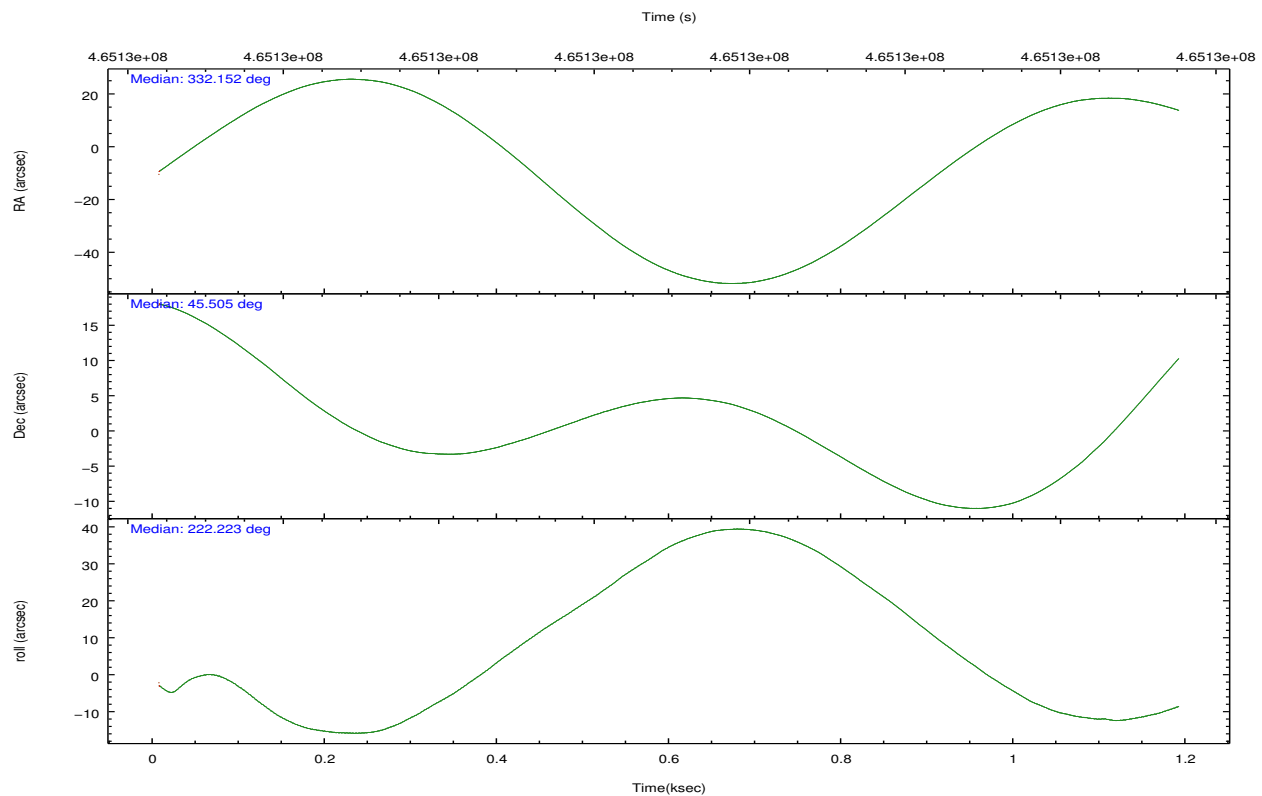
	segment 0
level 1 events	127758
rejected events	27413
rejected %	21%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.159535	332.1499674425474			
[deg] Pointing Dec	45.531457	45.50481191601272			
[deg] Pointing Roll	222.310800	222.2219949066316			
[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)	465128898.184000	465128521.89733			
Observation start date	2012-09-27T10:27:11	2012-09-27T10:22:01			
[s] Observation end time (MET)	465129898.184000	465130031.72241			
Observation end date	2012-09-27T10:43:51	2012-09-27T10:47:11			

2.3 Aspect



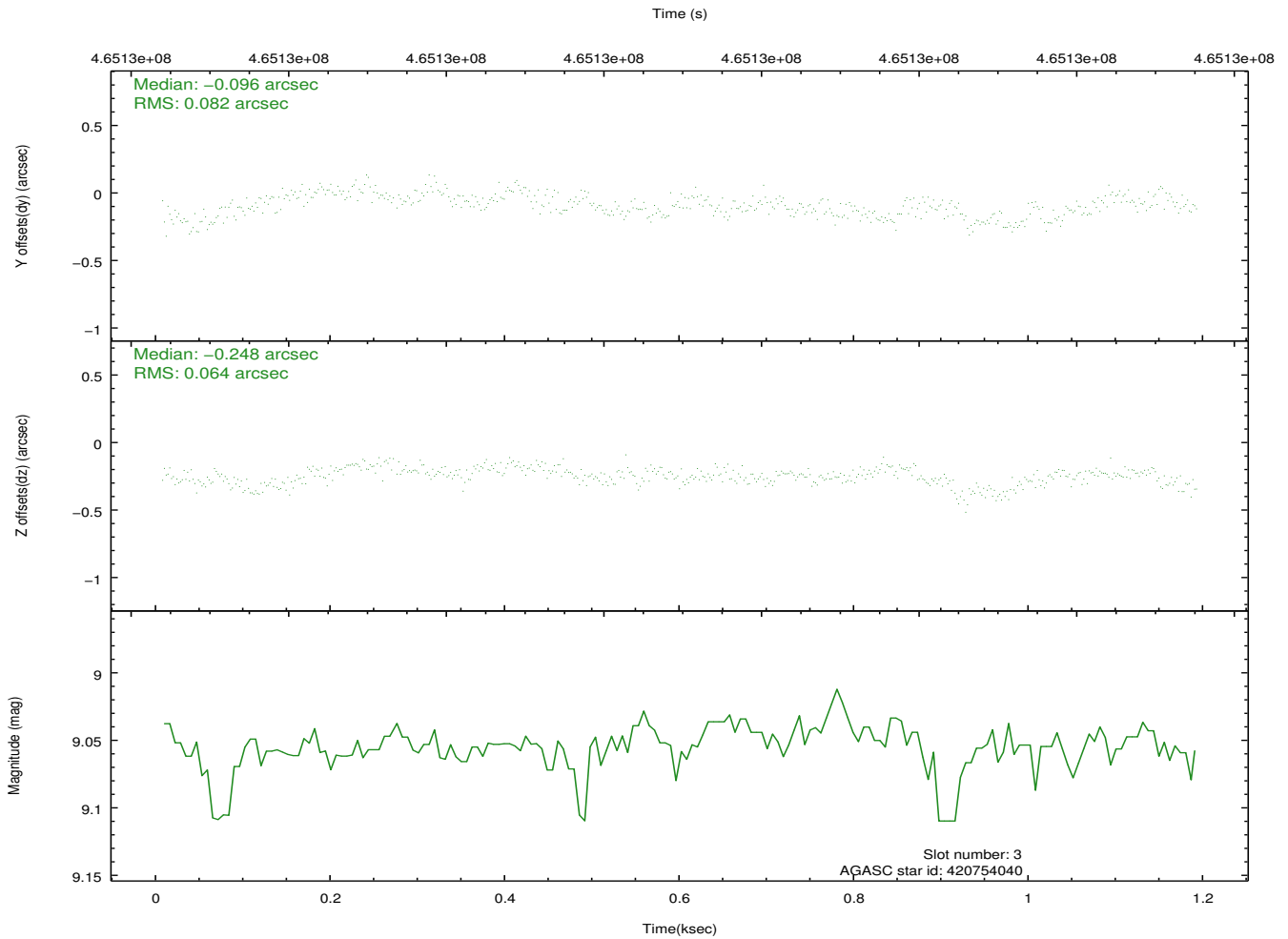
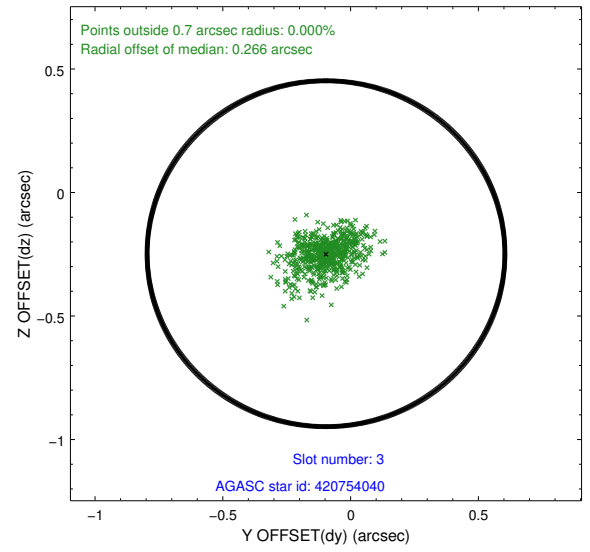
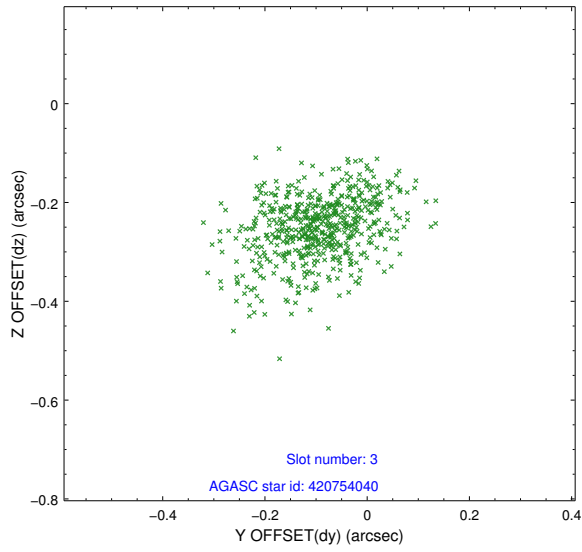


Slot Statistics

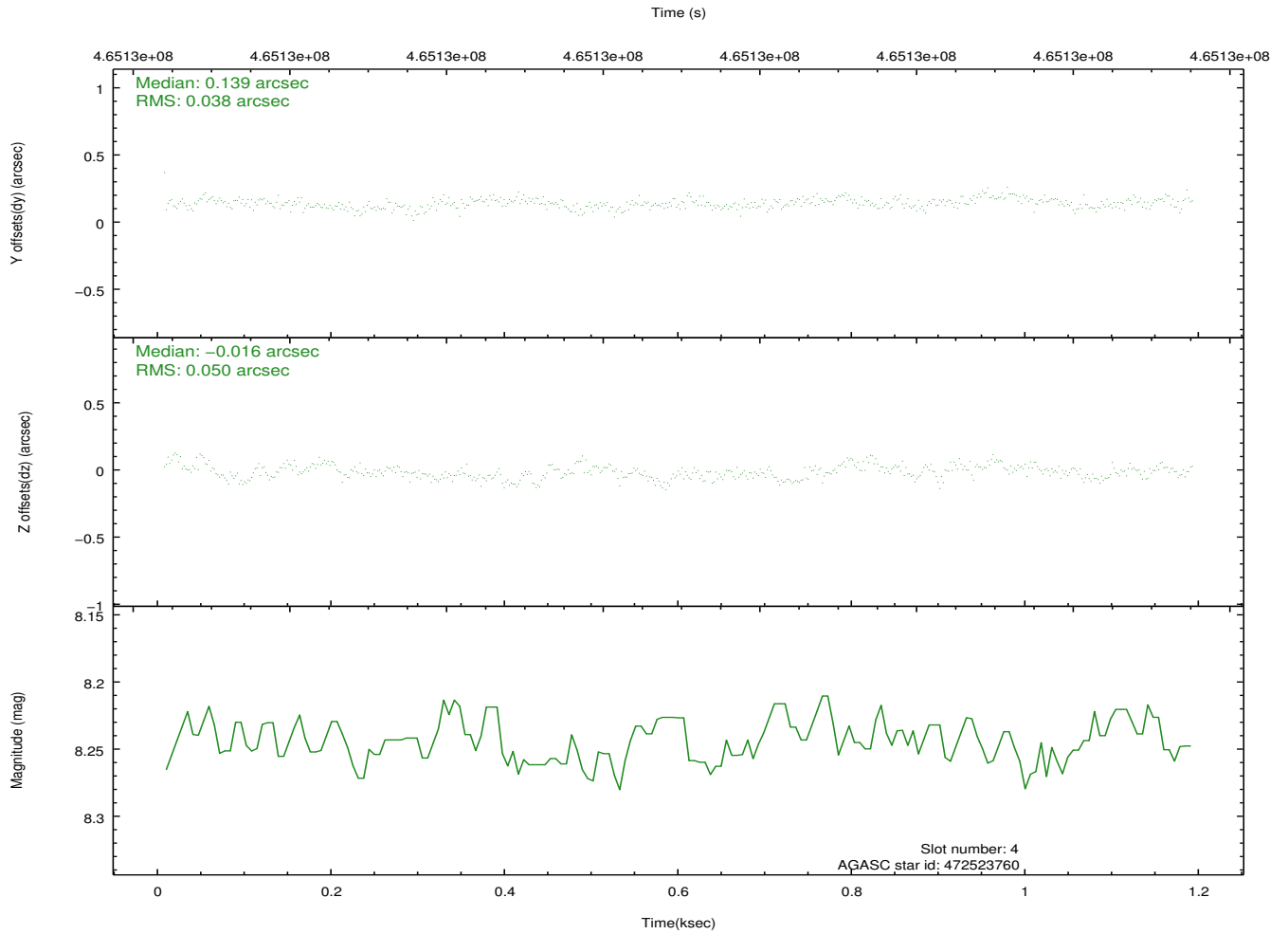
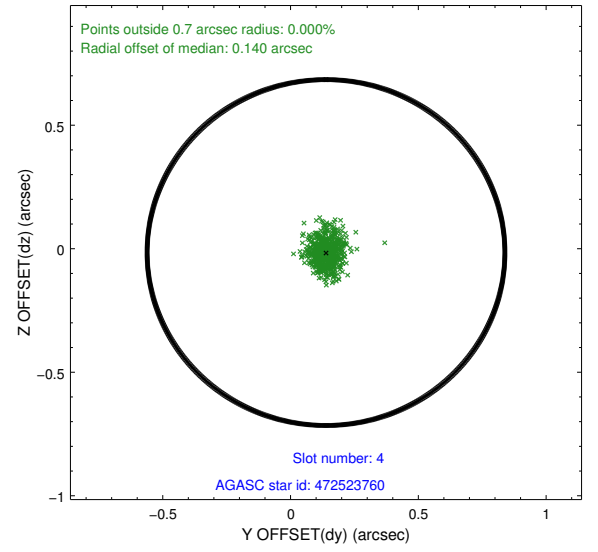
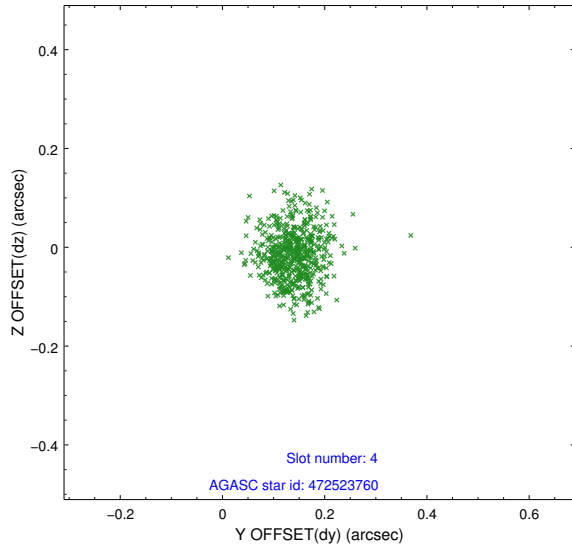
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.07	290	0.158	-0.138	0.010	0.016	0.000000	0.000000	838.50	-1302.95
1	FID		HRC-I-3	7.12	290	-0.220	0.100	0.011	0.019	0.000000	0.000000	-1200.08	998.95
2	FID		HRC-I-4	7.04	290	0.184	-0.048	0.009	0.017	0.000000	0.000000	1264.57	1004.31
3	GUIDE	used	420754040	9.05	578	-0.096	-0.248	0.112	0.188	331.917939	44.882543	2027.99	1308.66
4	GUIDE	used	472523760	8.24	579	0.139	-0.016	0.067	0.110	331.645363	45.403260	1274.45	-538.18
5	GUIDE	used	472527720	7.03	579	-0.124	0.200	0.076	0.137	331.460205	45.112509	2327.75	-90.92
6	GUIDE	used	472651904	6.55	579	-0.000	-0.041	0.076	0.133	332.170077	45.742257	-524.63	-548.13
7	GUIDE	used	472655152	9.42	576	0.096	0.109	0.133	0.229	332.504239	45.862991	-1442.85	-306.54

2.4 Star Slots

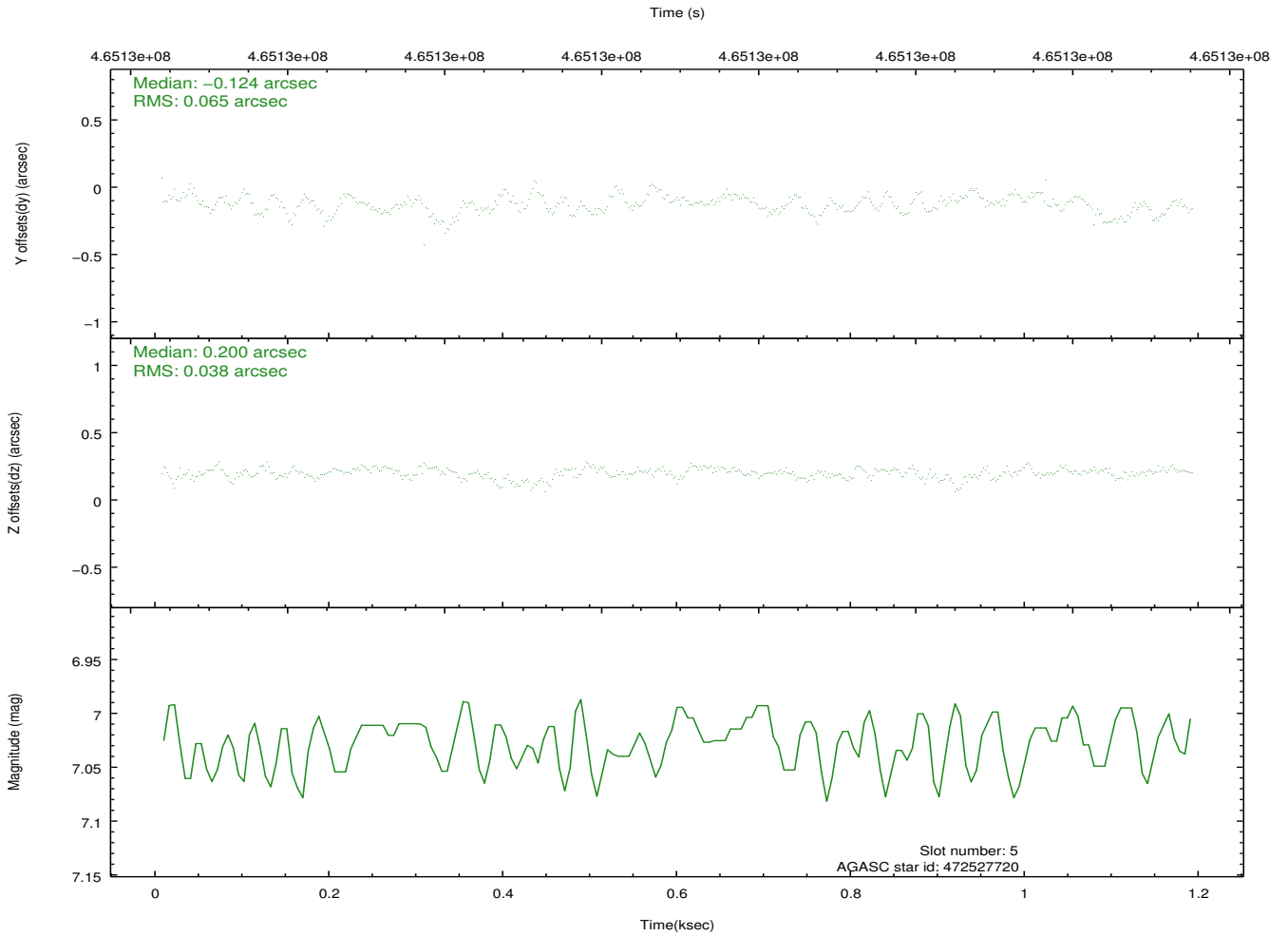
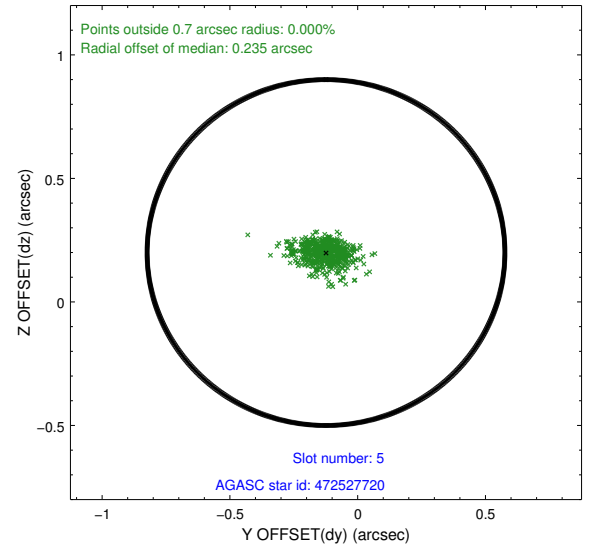
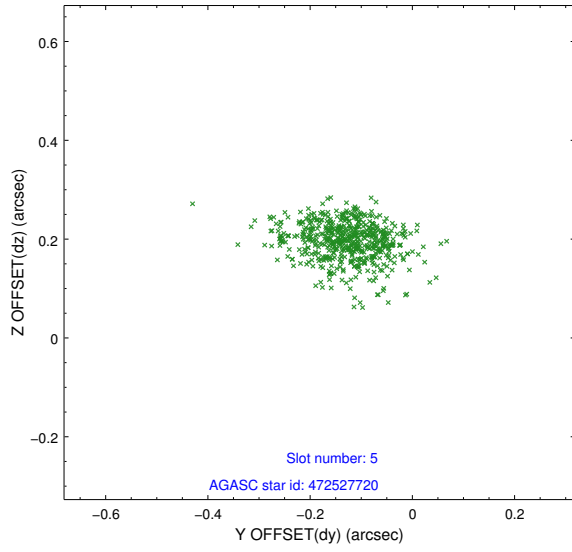
2.4.1 Slot 3



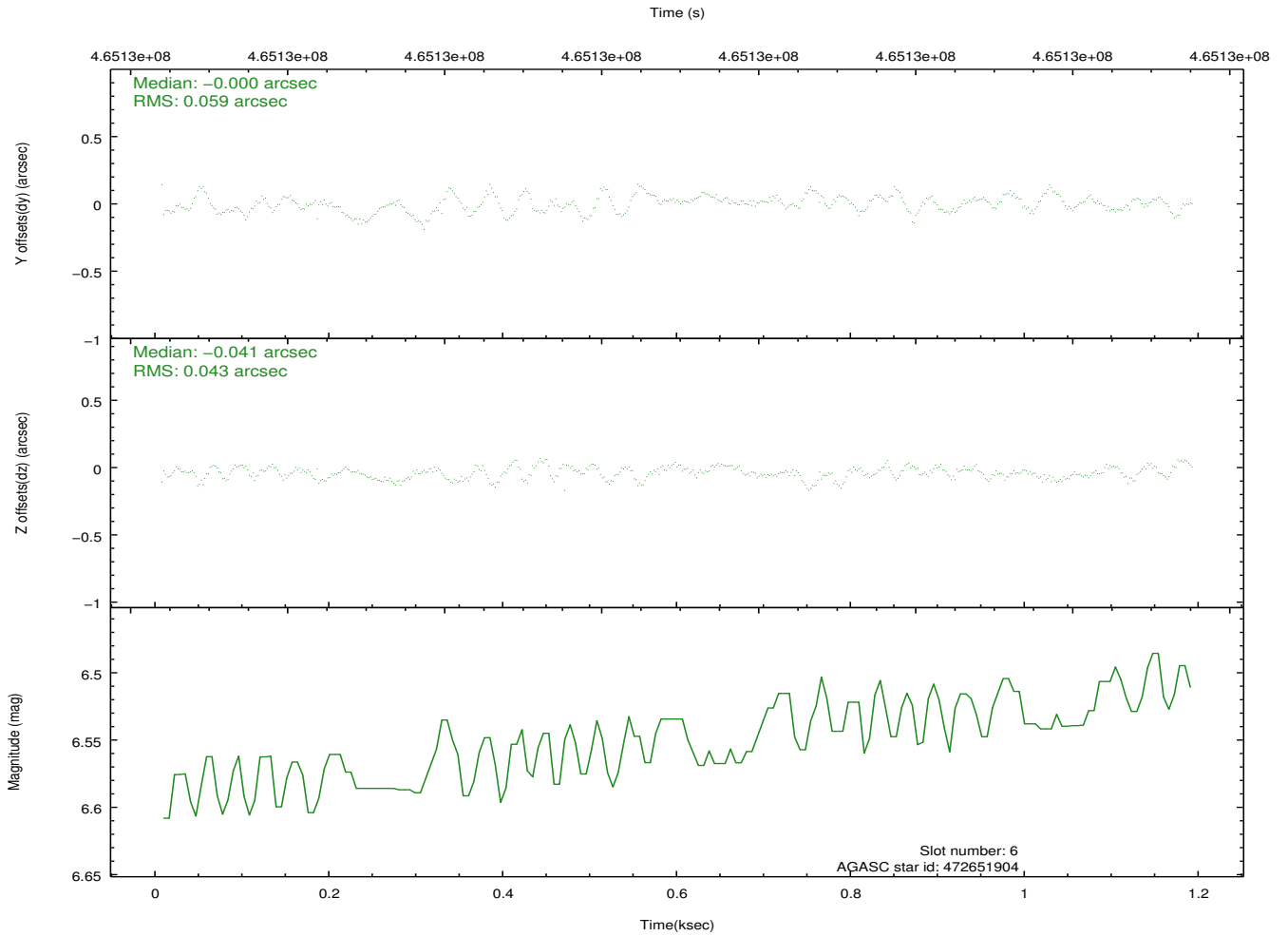
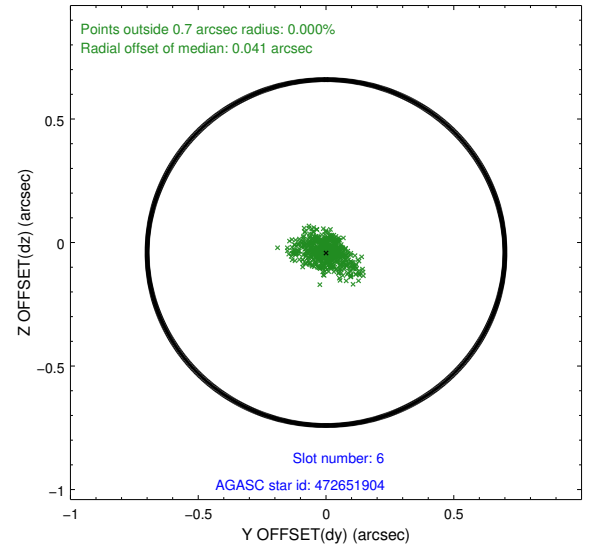
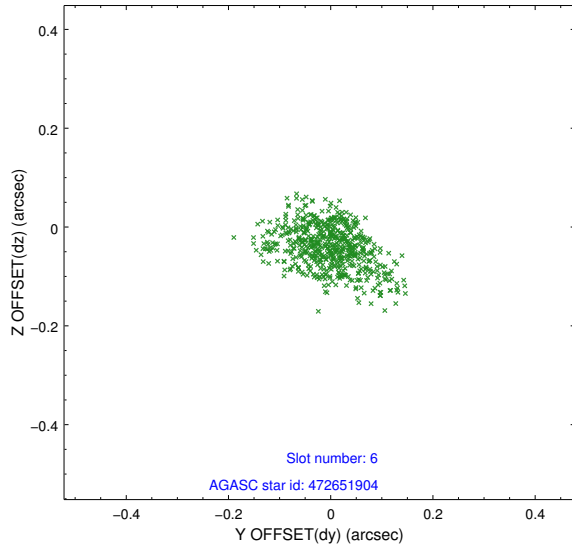
2.4.2 Slot 4



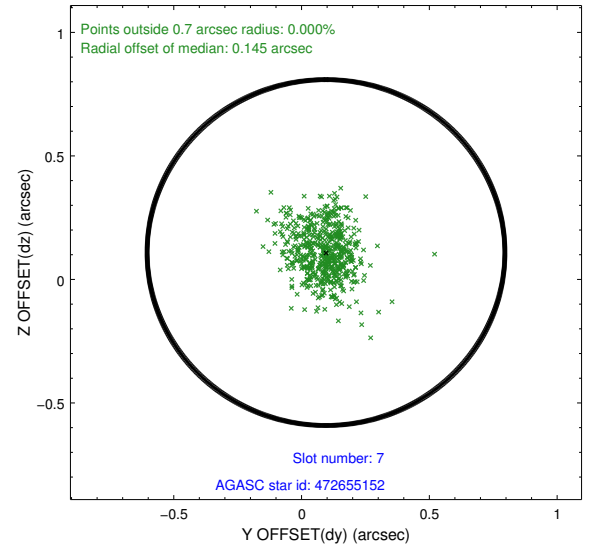
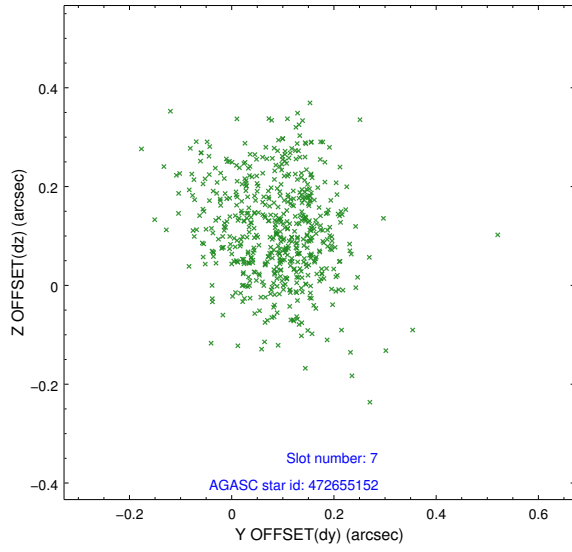
2.4.3 Slot 5



2.4.4 Slot 6

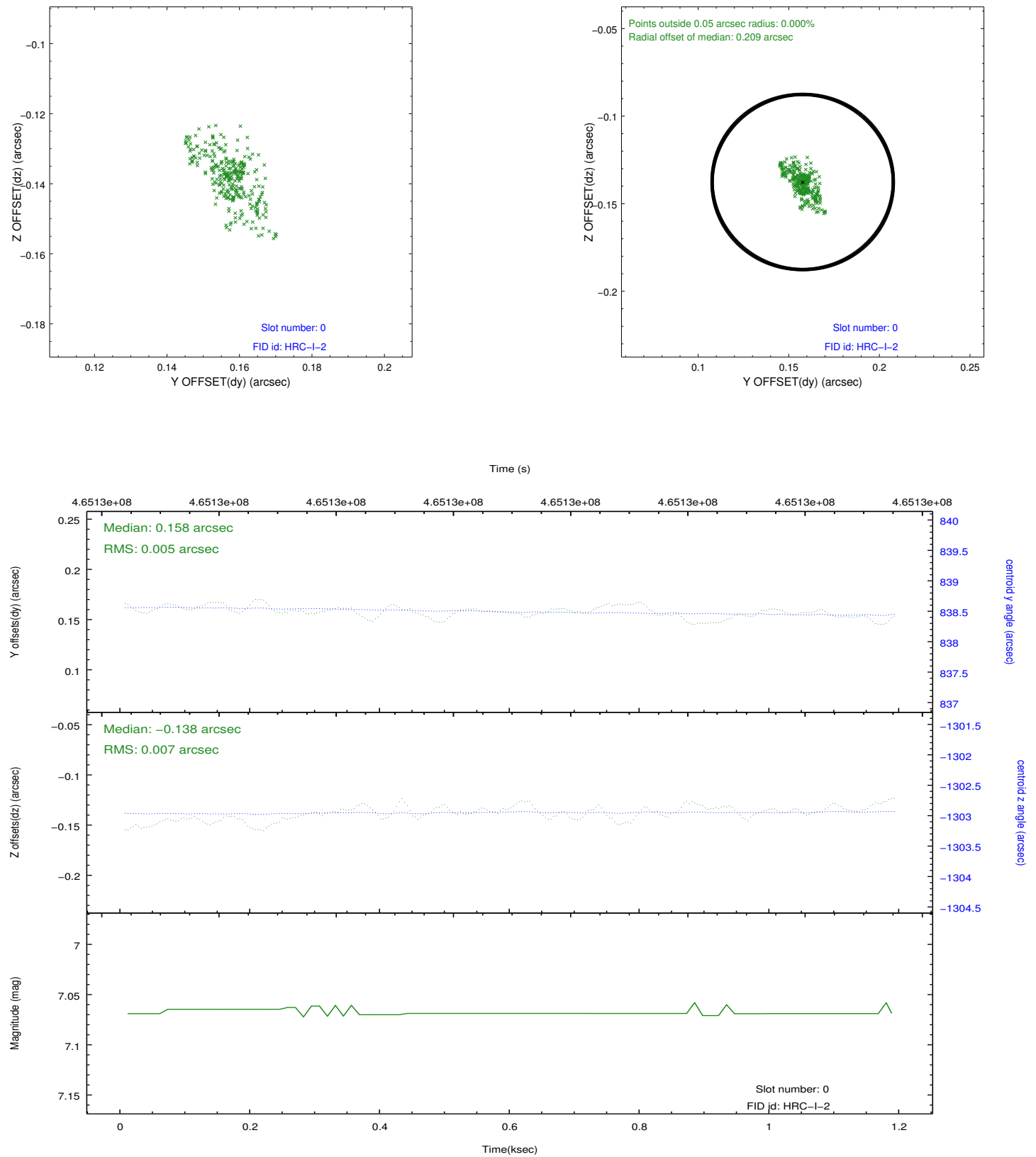


2.4.5 Slot 7

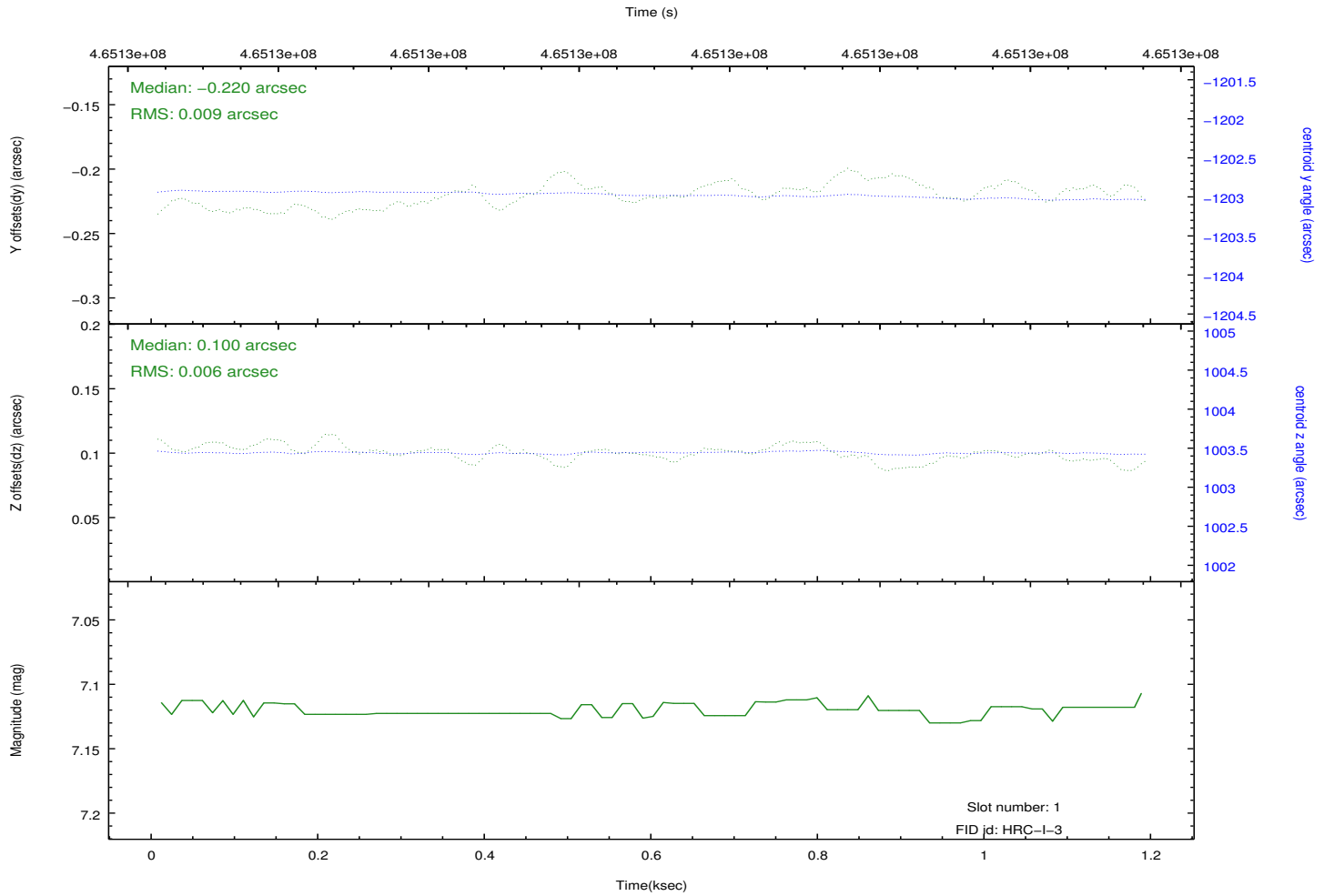
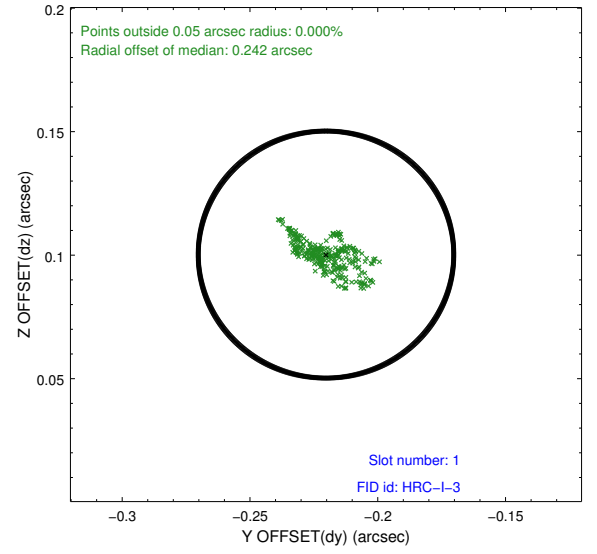
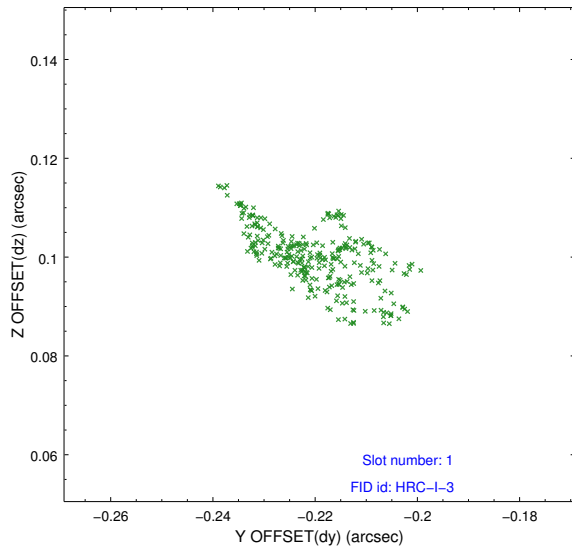


2.5 FID Slots

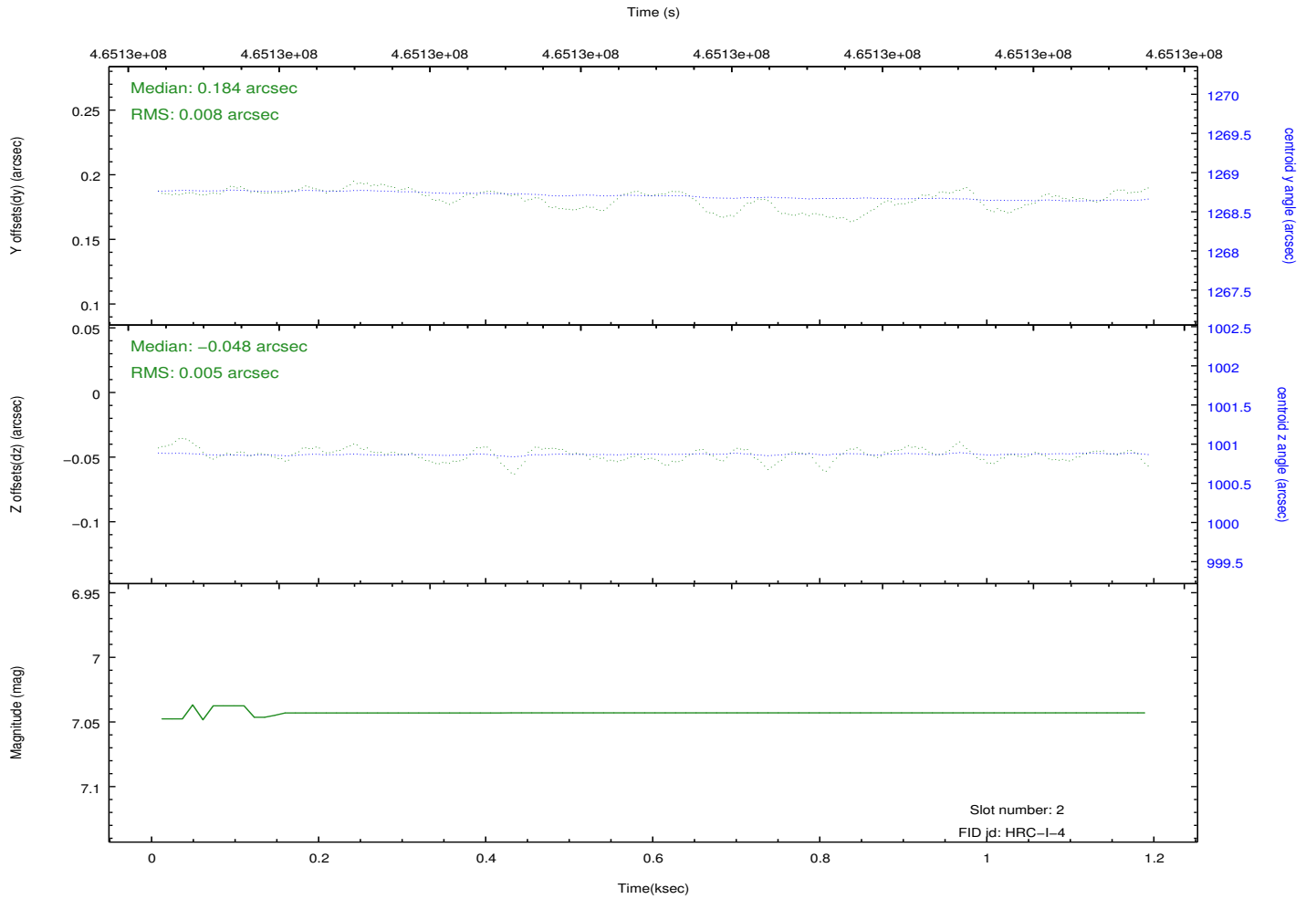
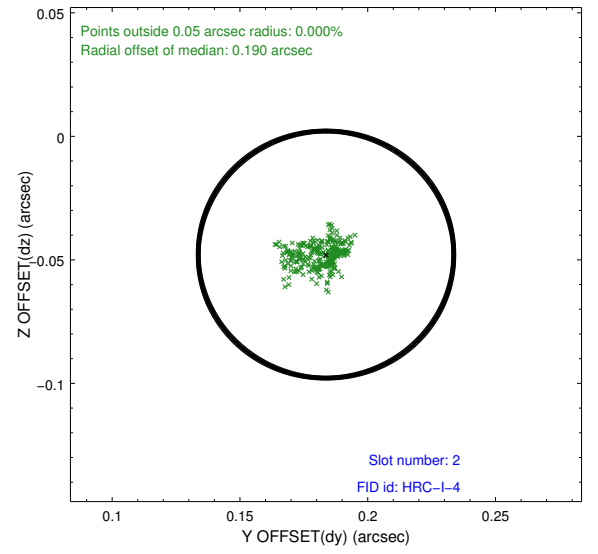
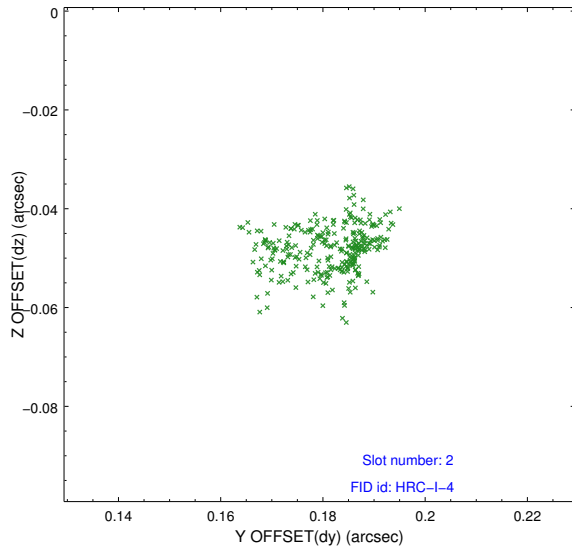
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1841313135028

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.