

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14298 - L2 Version 2
Chandra X-Ray Center

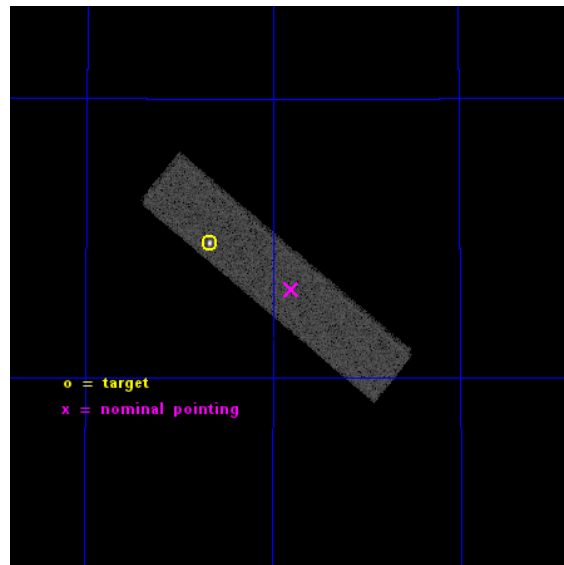
L2 Processing Date : Nov 26 2014

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1 Front

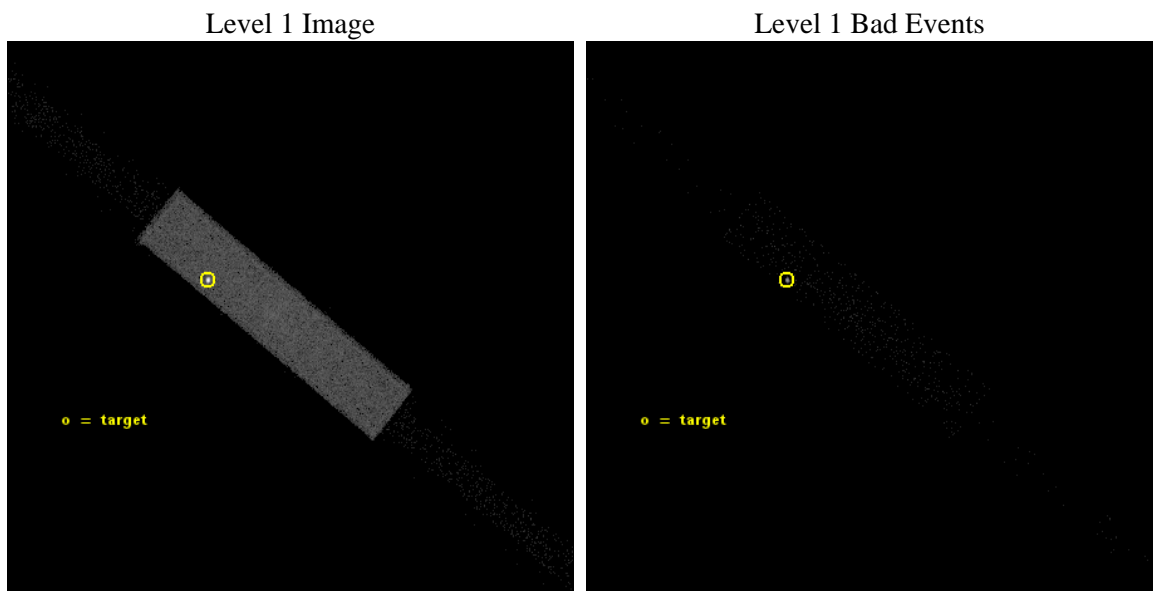
seq_num	291049	Sequence number
obs_id	14298	Observation id
title	AO-13 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.94988356529	Nominal RA [deg]
dec_nom	45.659147264575	Nominal Dec [deg]
roll_nom	219.24078402306	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1153.3813120723	[s]
livetime	1145.5453806408	Ontime multiplied by DTCOR
l2events	55954	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	1153.3813120723	[s]
caldbver	4.6.4	 	l1events	85444	Number of level 1 events
date	2014-11-27T02:28:45	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

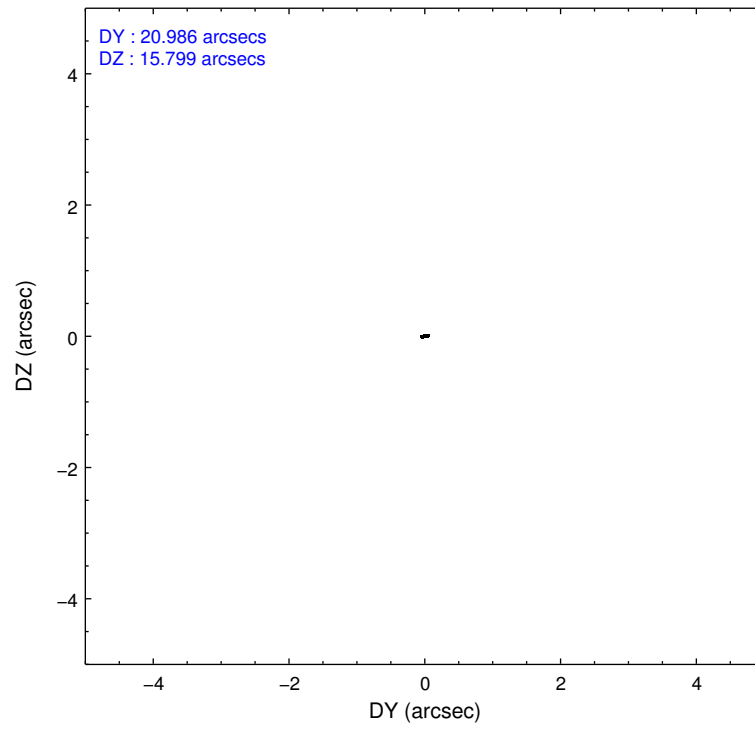
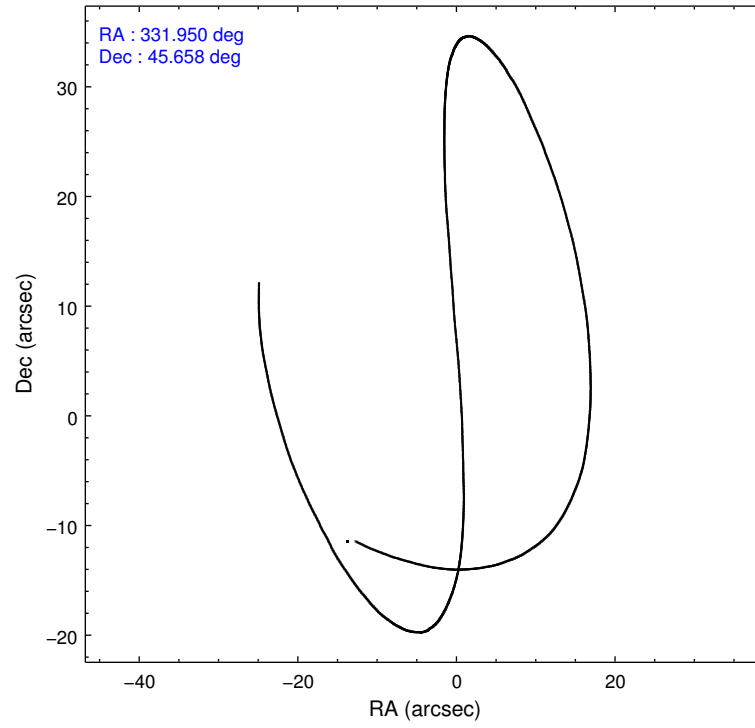
	segment 1	segment 2	segment 3
level 1 events	703	84060	681
rejected events	703	15554	681
rejected %	100%	18%	100%

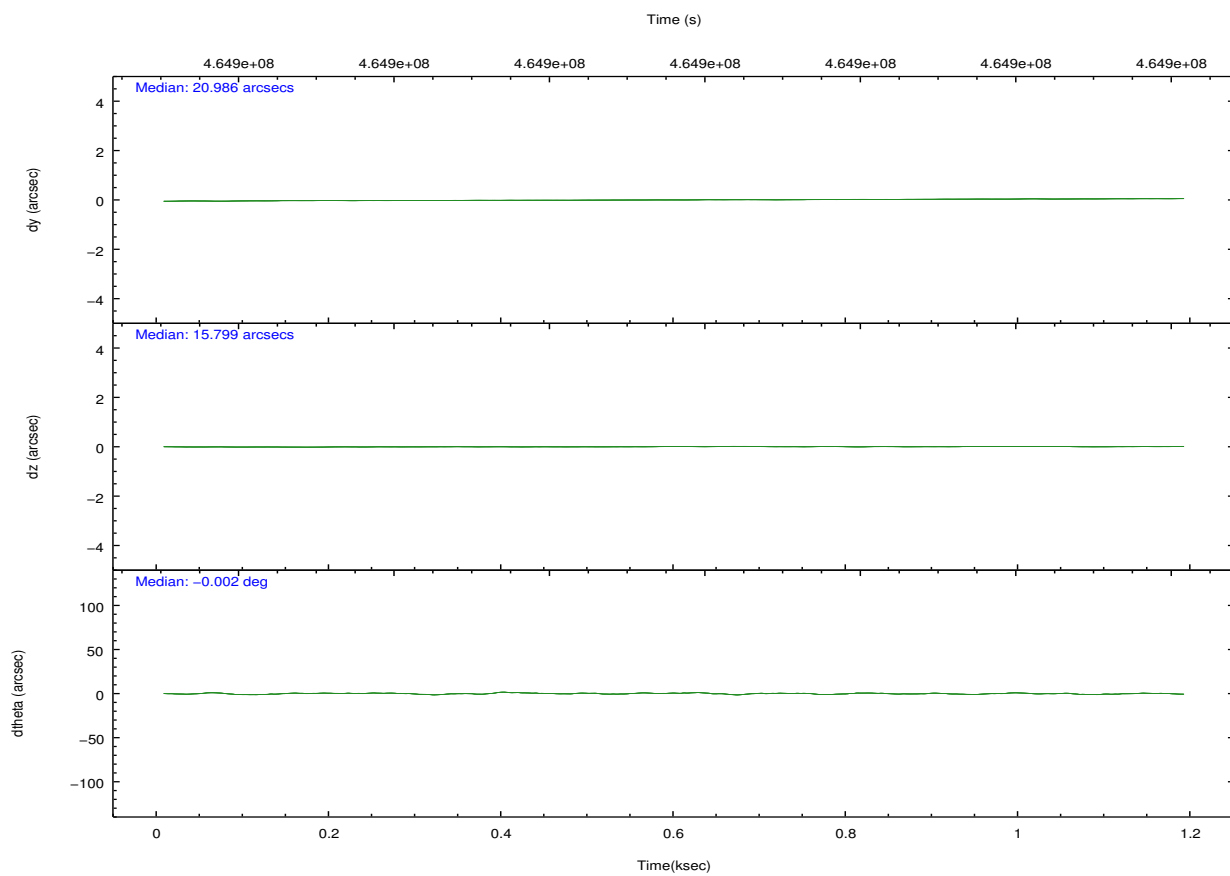
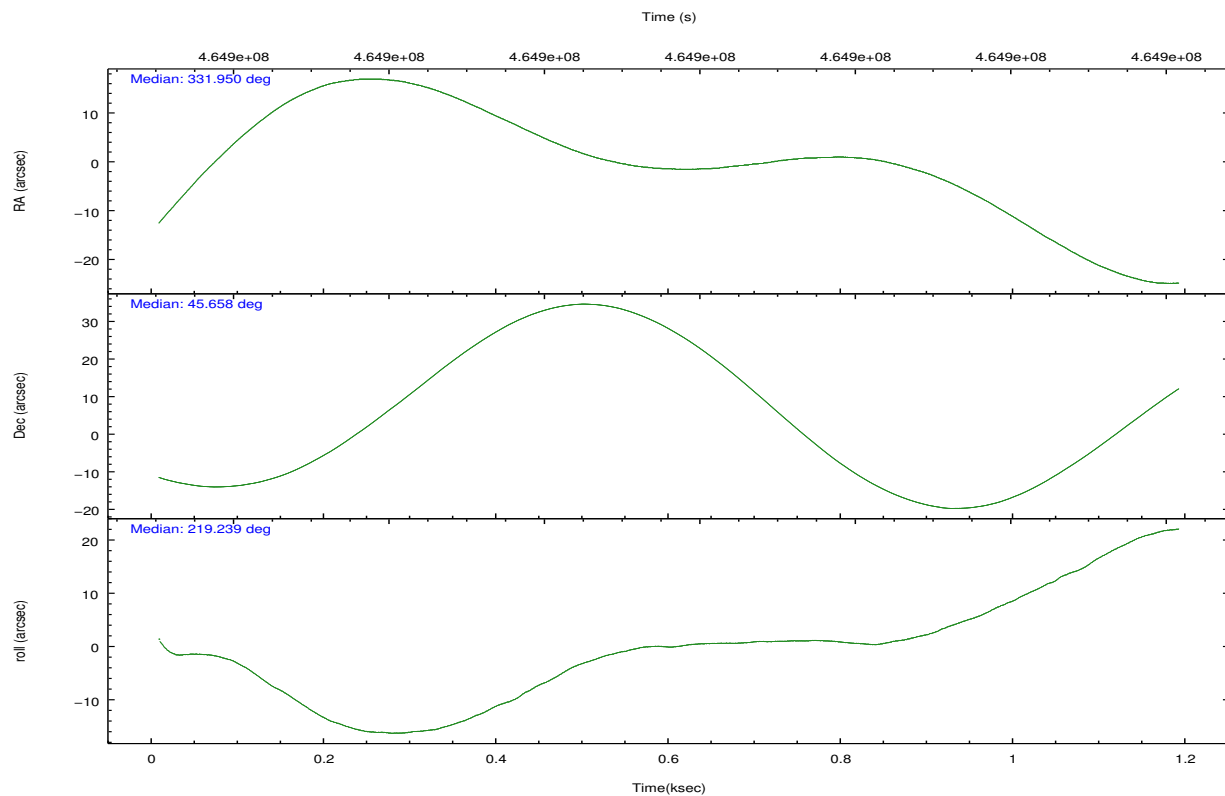
2.2 Compared Parameters

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	331.961964	331.9498835652886
[deg] Pointing Dec	45.687431	45.65914726457471
[deg] Pointing Roll	219.164862	219.2407840230612
[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)	464900161.184000	464899784.93515
Observation start date	2012-09-24T18:54:54	2012-09-24T18:49:44
[s] Observation end time (MET)	464901161.184000	464901803.16026
Observation end date	2012-09-24T19:11:34	2012-09-24T19:23:23

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

2.3 Aspect



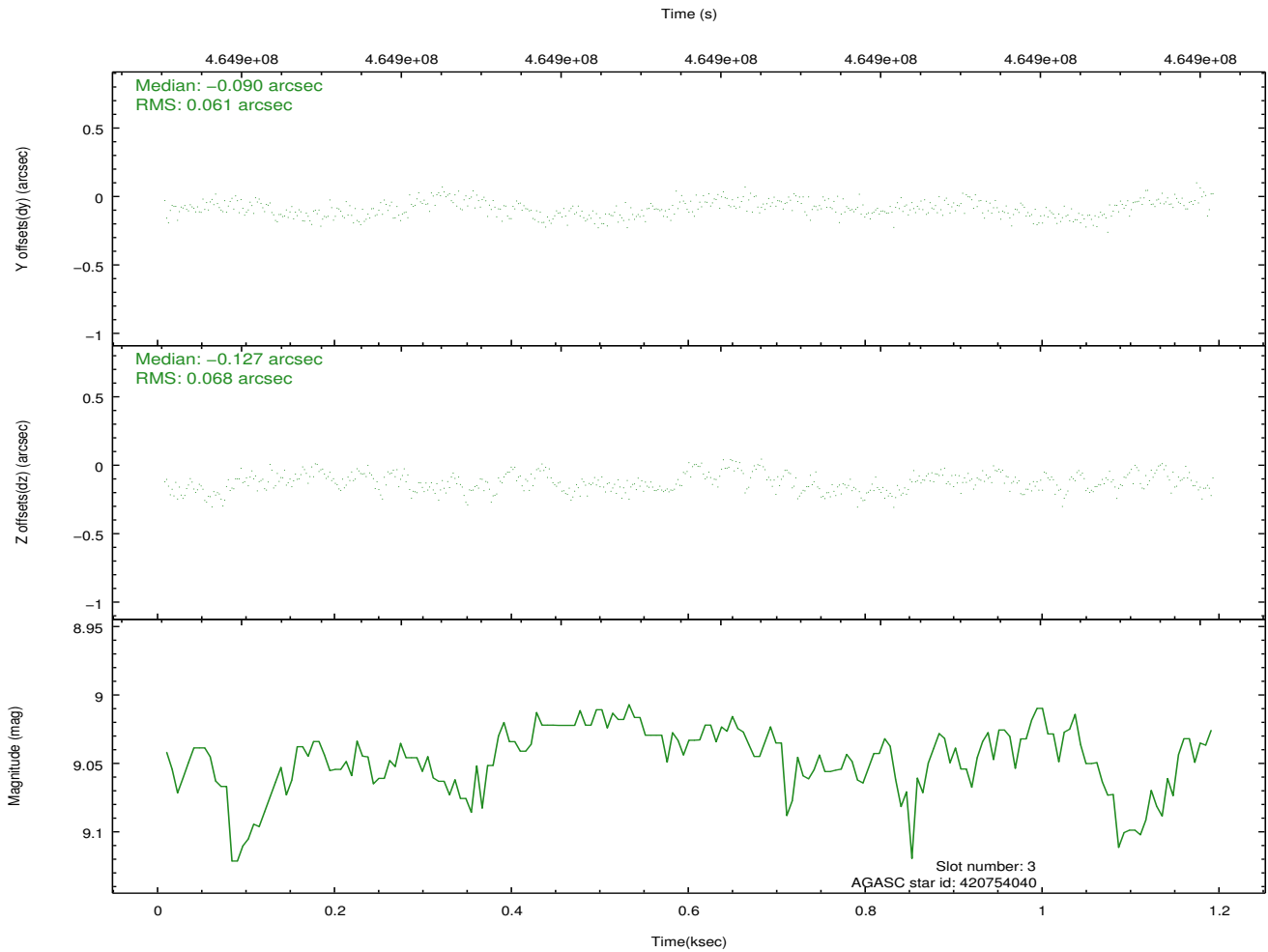
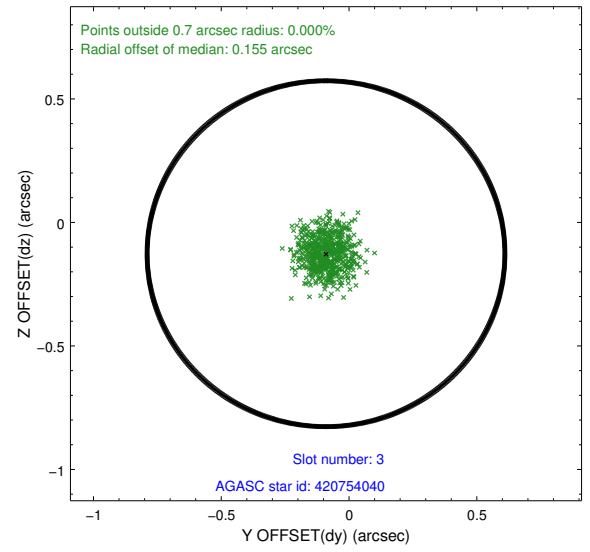
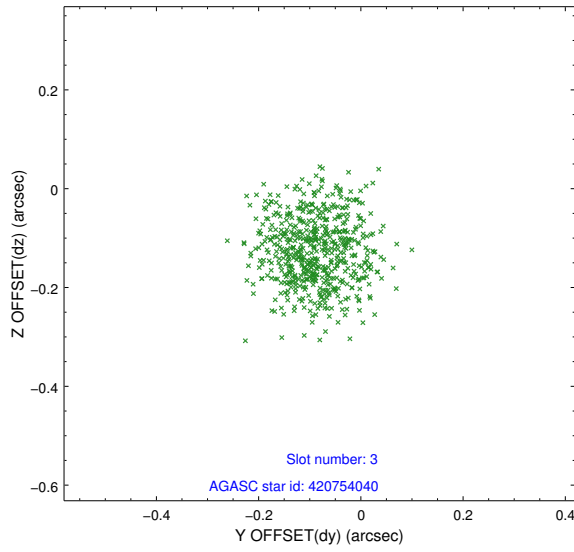


Slot Statistics

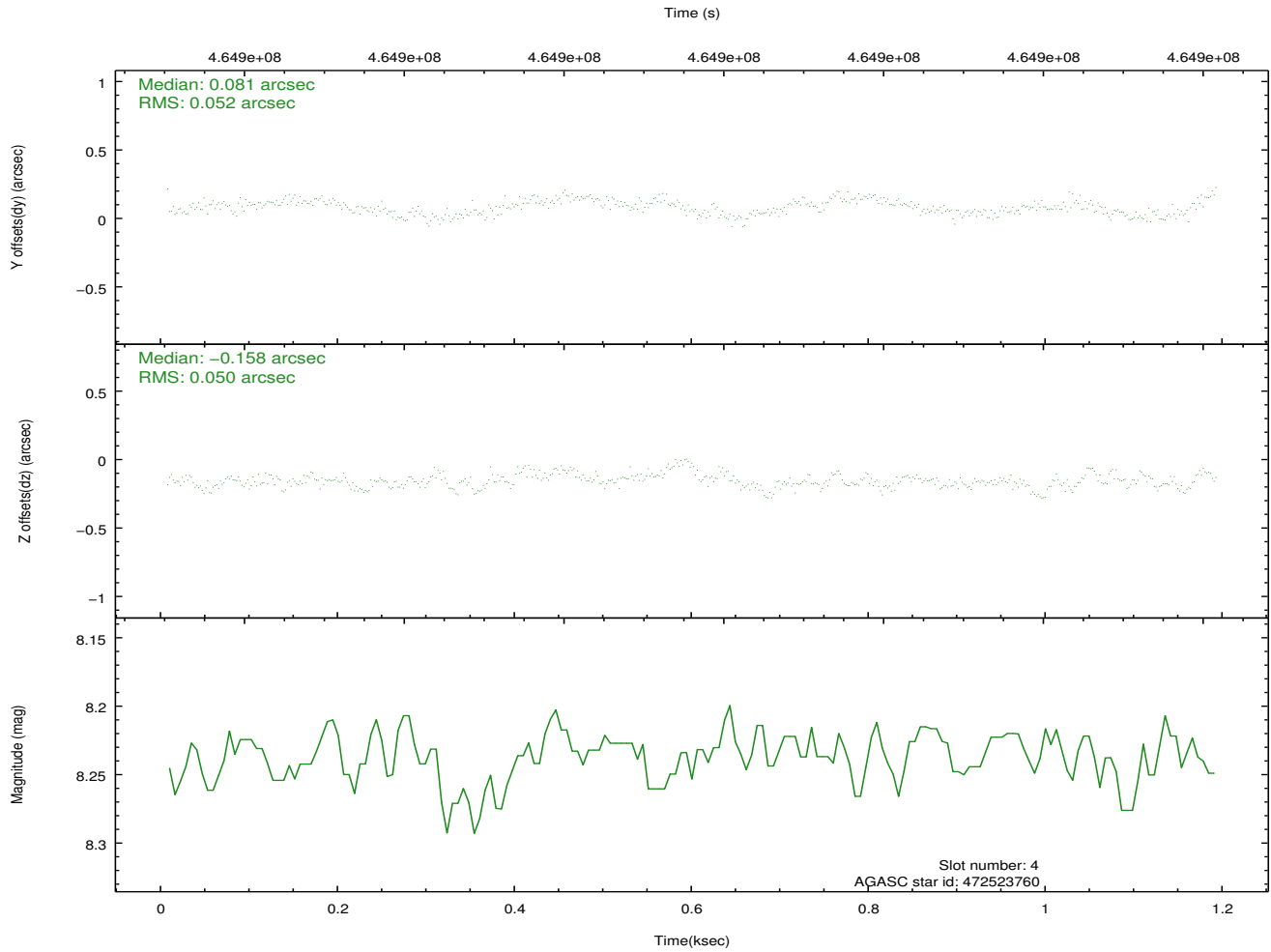
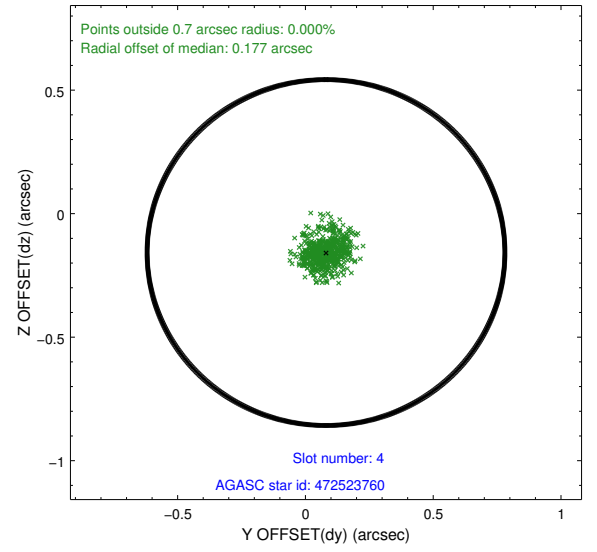
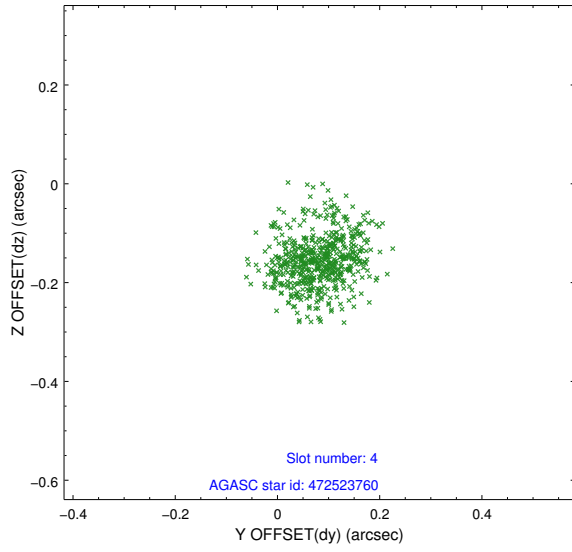
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.07	289	-0.001	-0.211	0.007	0.011	0.000000	0.000000	-1175.63	-464.72
1	FID		HRC-S-2	7.04	289	0.311	-0.122	0.004	0.009	0.000000	0.000000	1220.27	-458.92
2	FID		HRC-S-3	7.07	289	0.079	0.030	0.007	0.010	0.000000	0.000000	-1174.04	563.45
3	GUIDE	used	420754040	9.04	579	-0.090	-0.127	0.100	0.147	331.917939	44.882543	1914.78	2172.79
4	GUIDE	used	472523760	8.24	579	0.081	-0.158	0.080	0.125	331.645363	45.403260	1268.33	286.77
5	GUIDE	used	472527720	7.01	579	-0.232	0.005	0.078	0.133	331.460205	45.112509	2294.20	793.76
6	GUIDE	used	472533912	9.15	575	0.199	0.271	0.127	0.208	331.791136	46.368695	-1216.75	-2171.76
7	GUIDE	used	472655152	9.42	578	0.048	-0.005	0.127	0.210	332.504239	45.862991	-1458.88	357.89

2.4 Star Slots

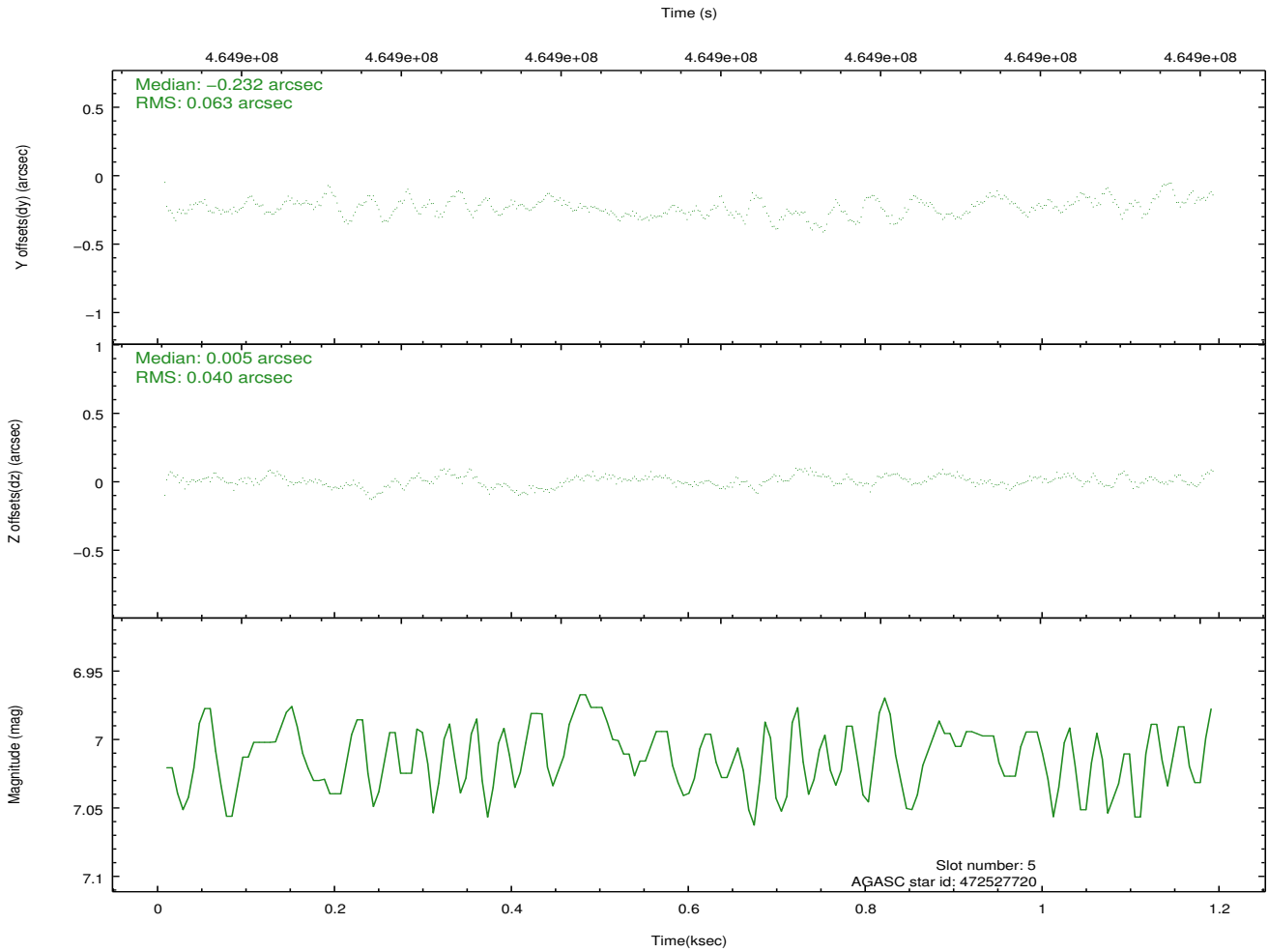
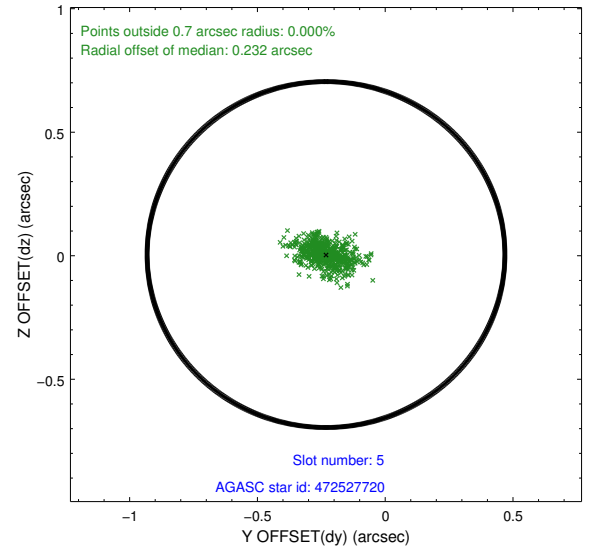
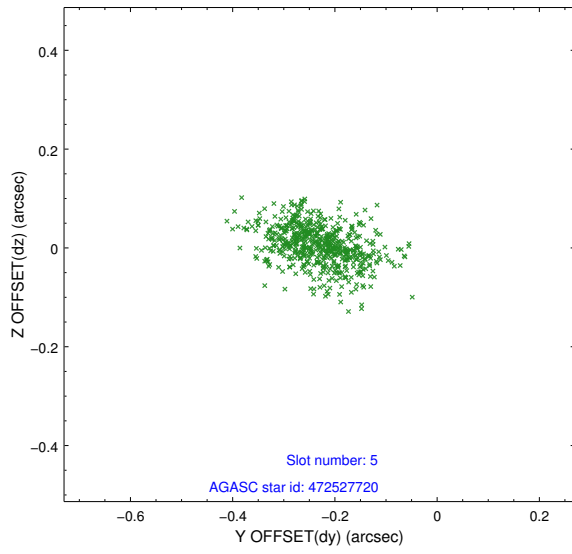
2.4.1 Slot 3



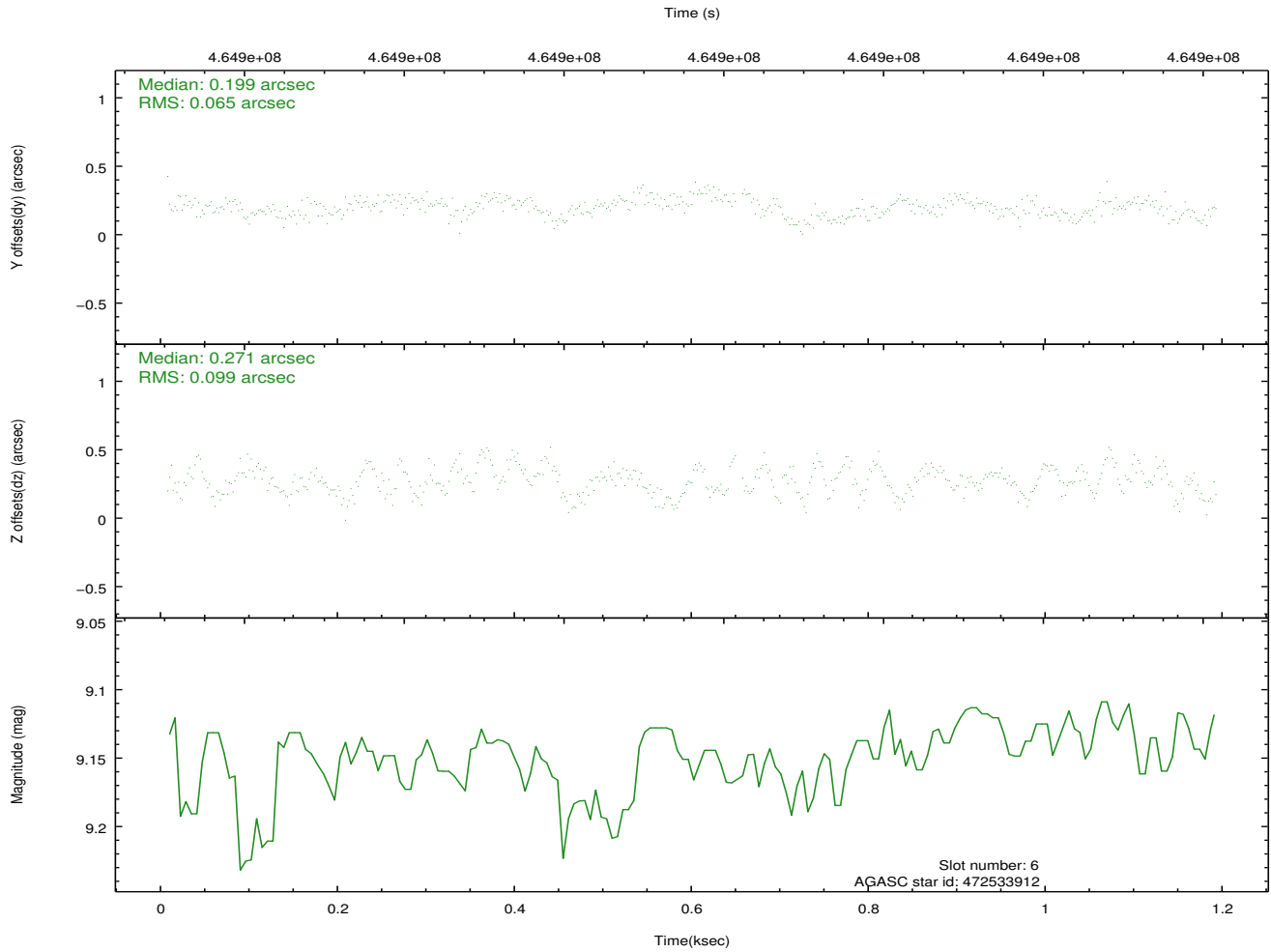
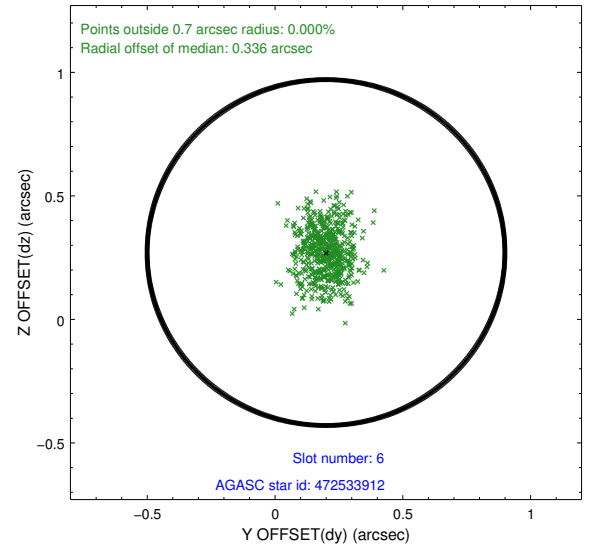
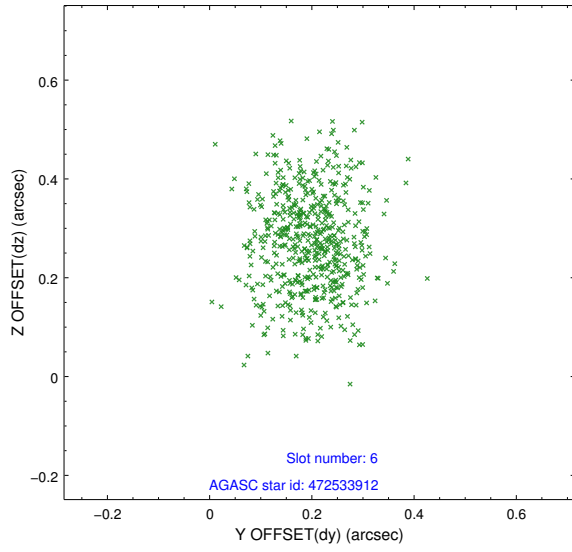
2.4.2 Slot 4



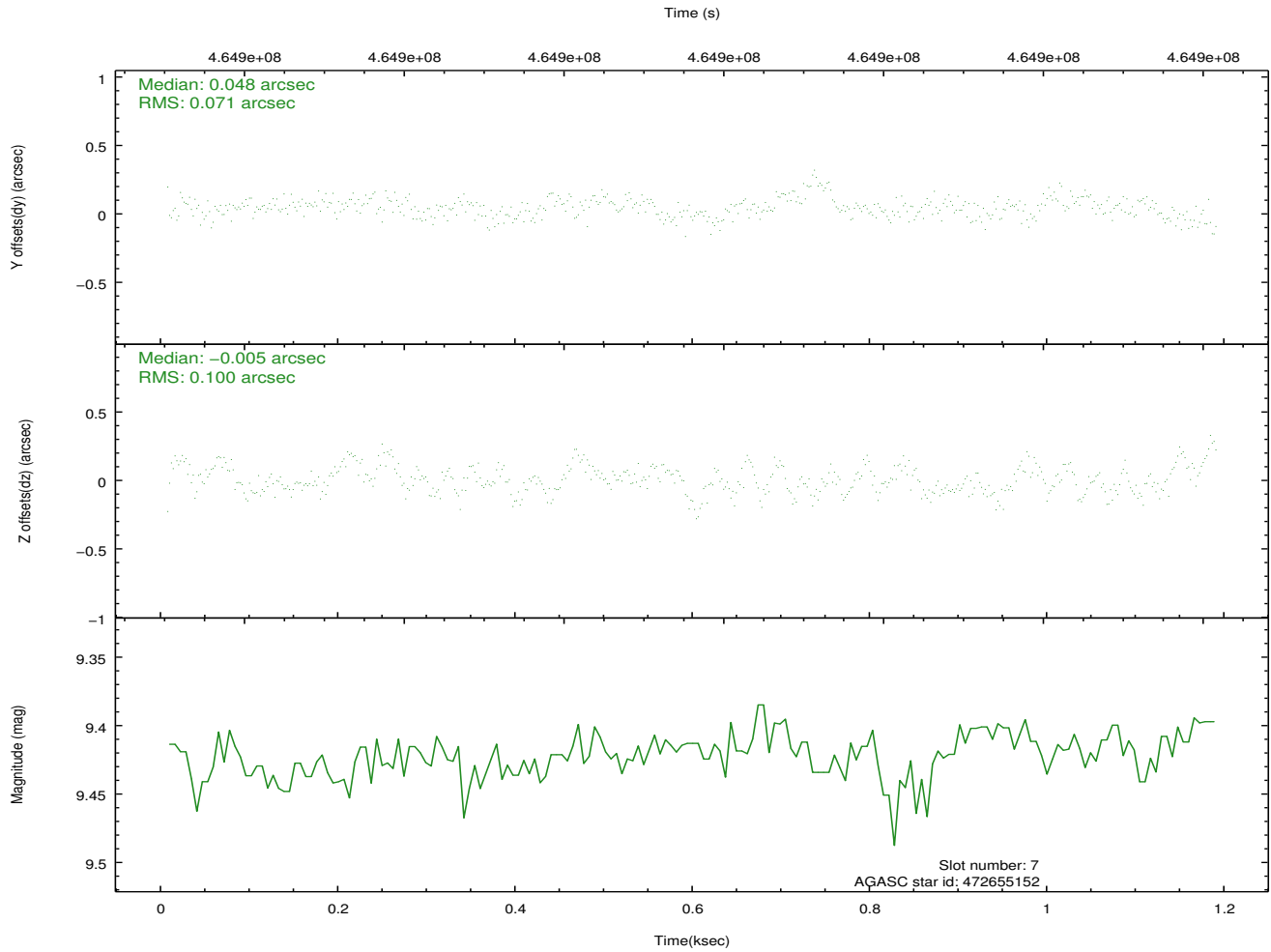
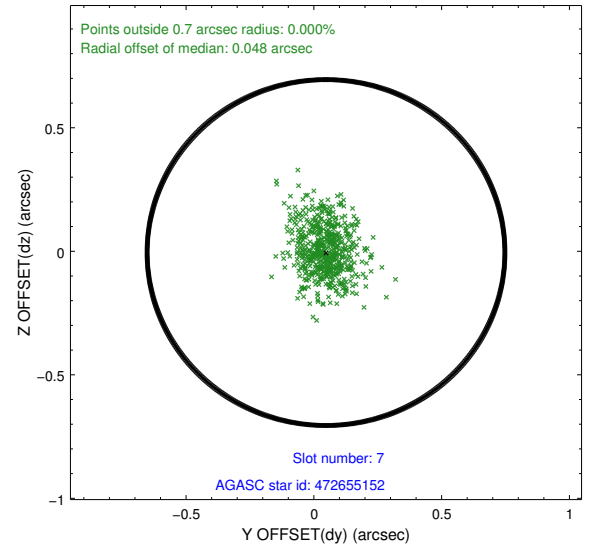
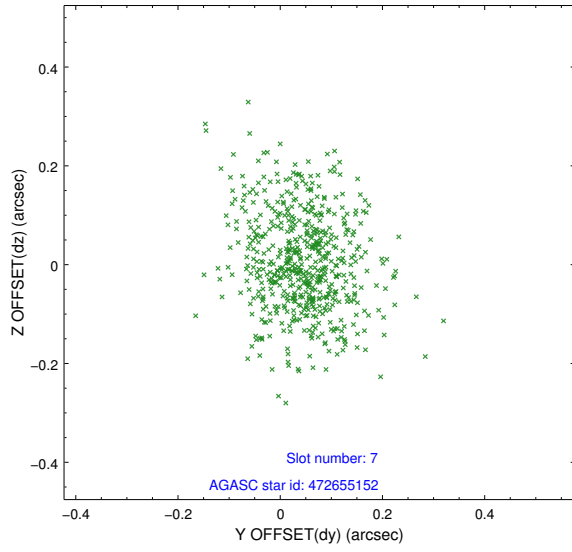
2.4.3 Slot 5



2.4.4 Slot 6

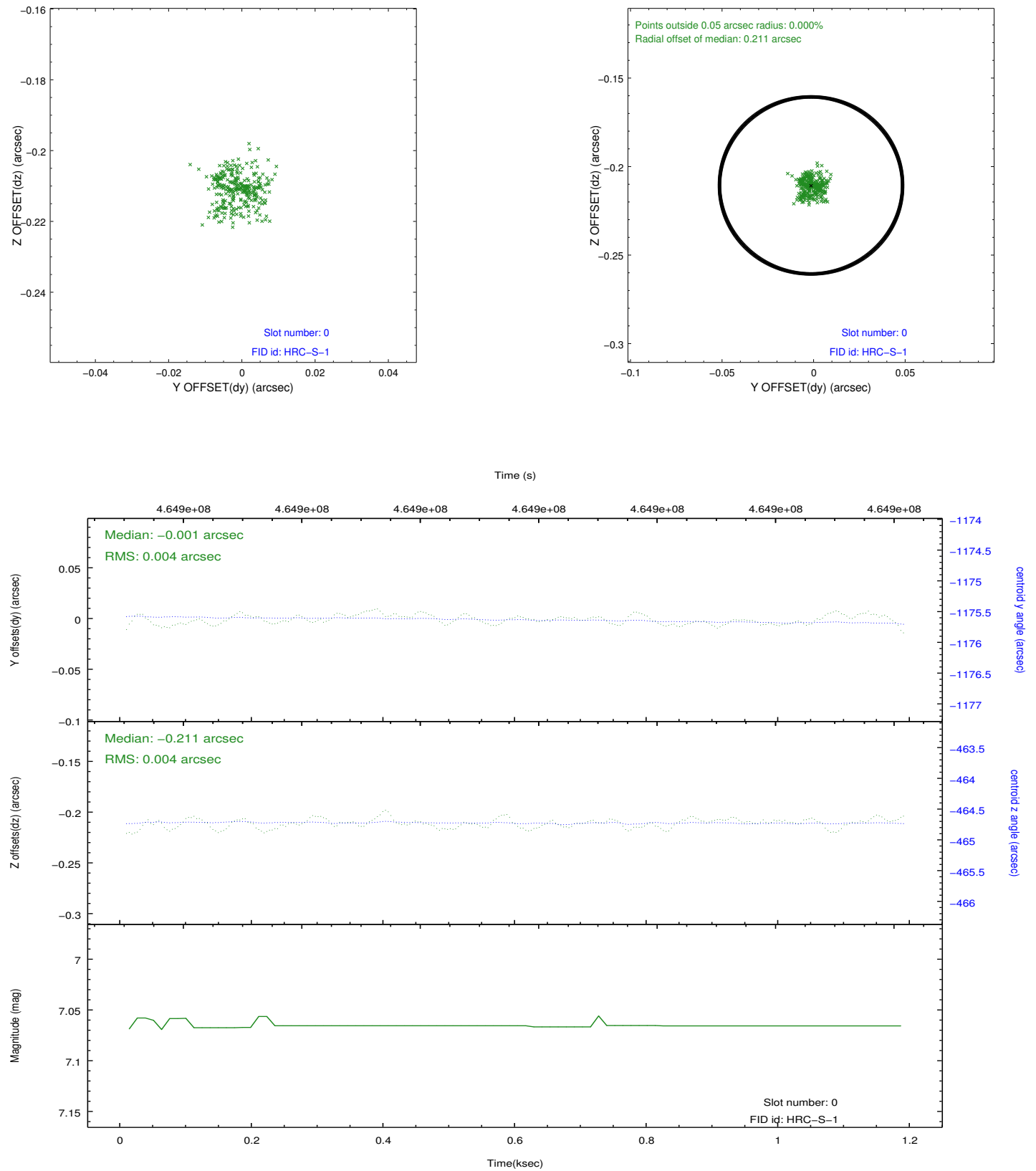


2.4.5 Slot 7

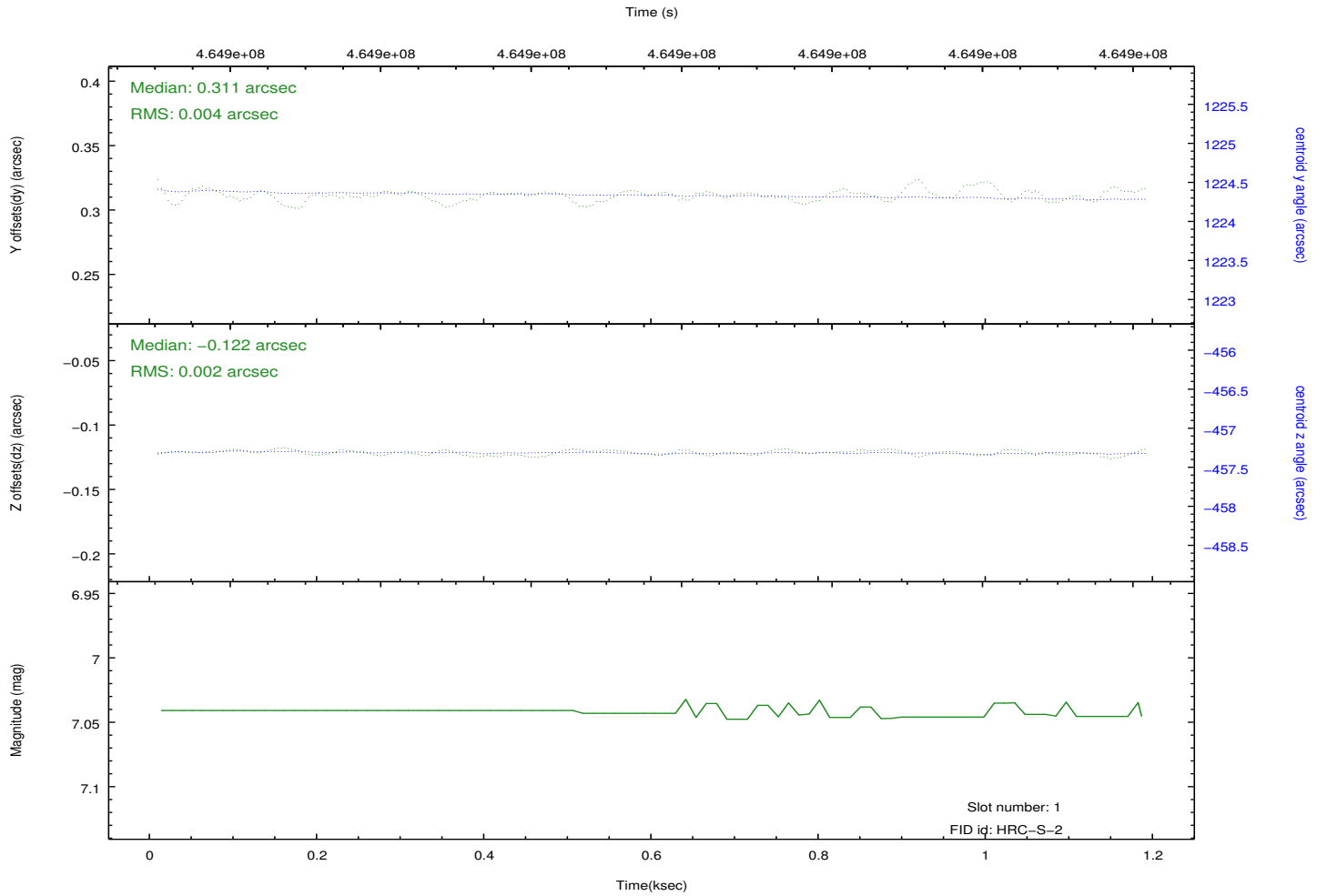
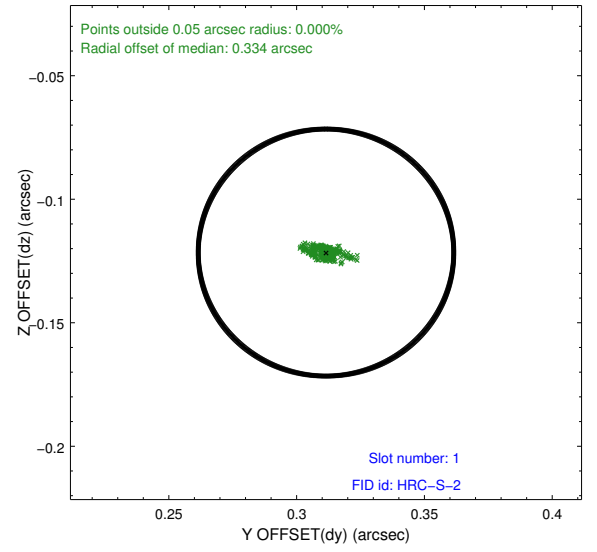
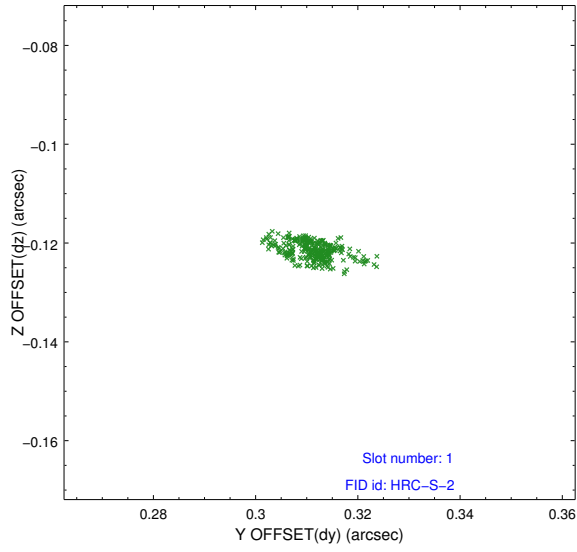


2.5 FID Slots

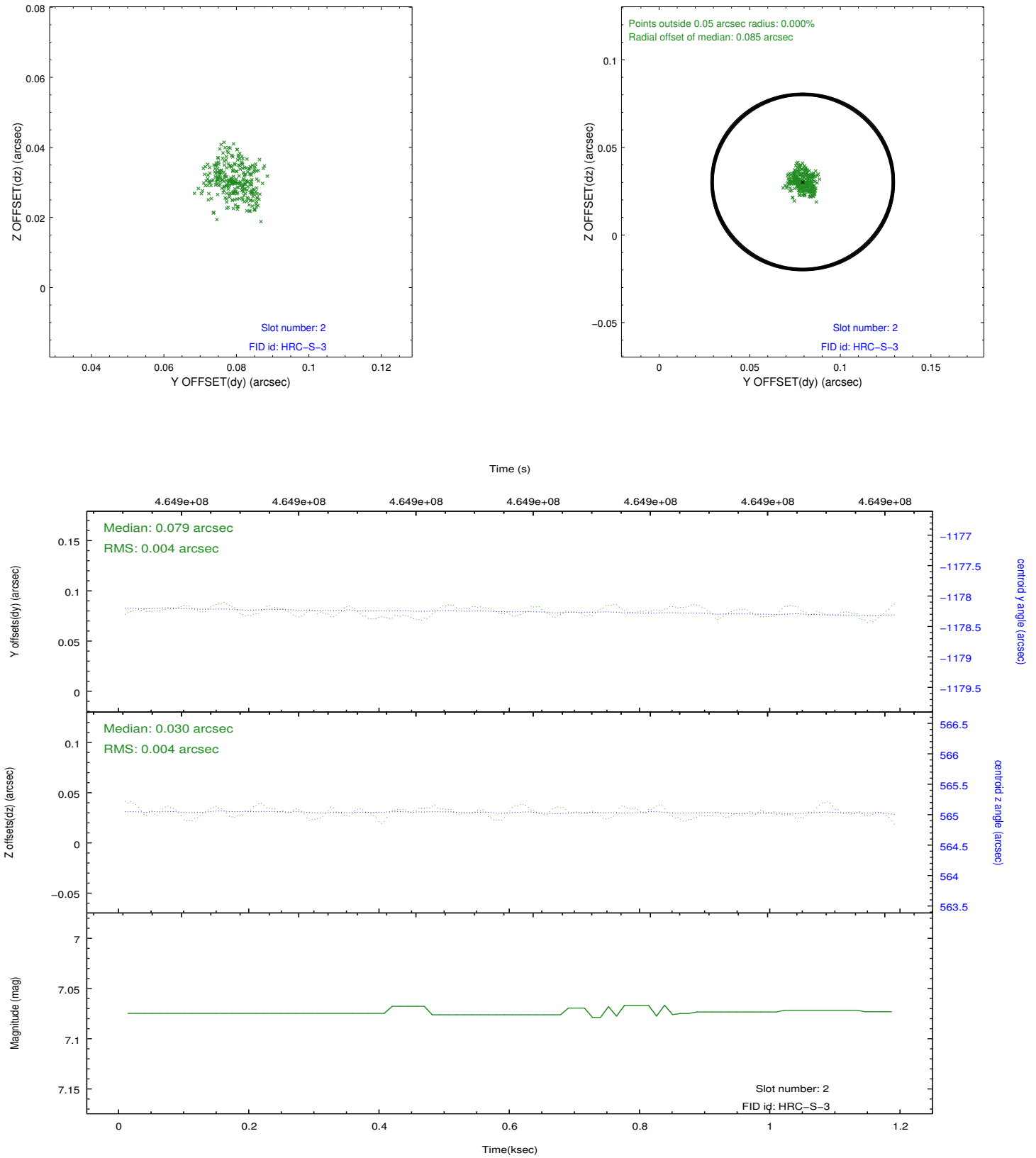
2.5.1 Slot 0



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	1.1533813120723

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.