

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 15430 - L2 Version 2
Chandra X-Ray Center

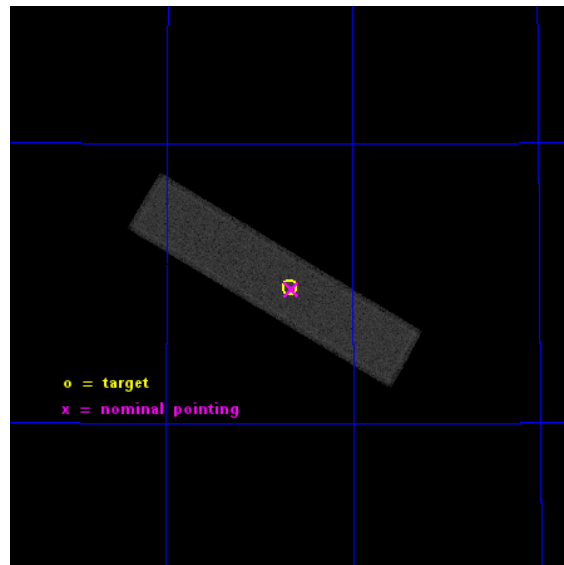
L2 Processing Date : Dec 6 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

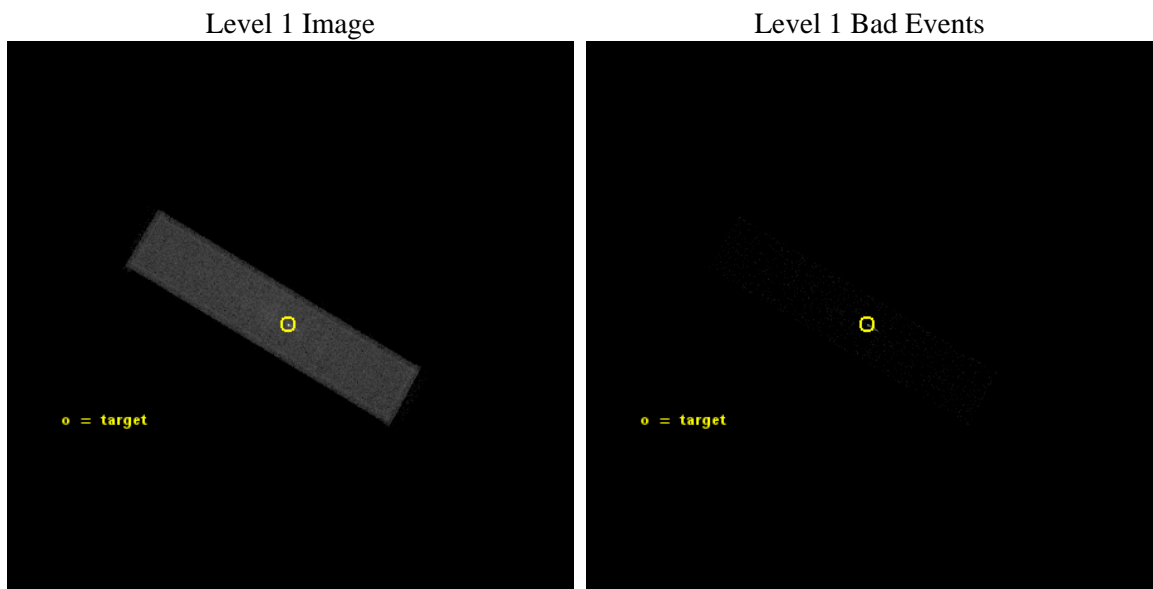
seq_num	291109	Sequence number
obs_id	15430	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1642283727	Nominal RA [deg]
dec_nom	45.739899837861	Nominal Dec [deg]
roll_nom	210.10819281131	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3178.7814235091	[s]
livetime	3160.8128727242	Ontime multiplied by DTCOR
l2events	127120	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	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3178.7814235091	[s]
caldbver	4.6.4	 	l1events	214488	Number of level 1 events
date	2014-12-06T11:22:35	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

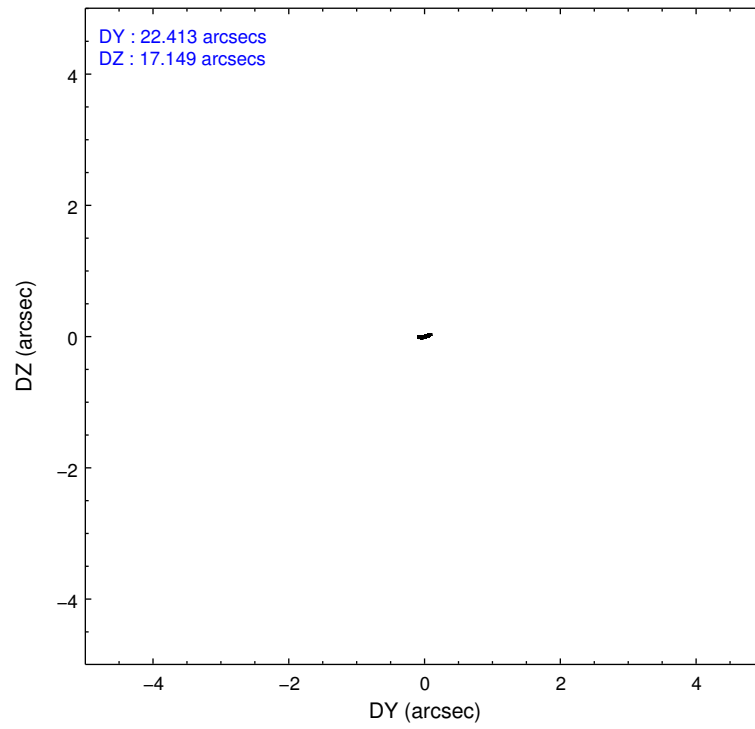
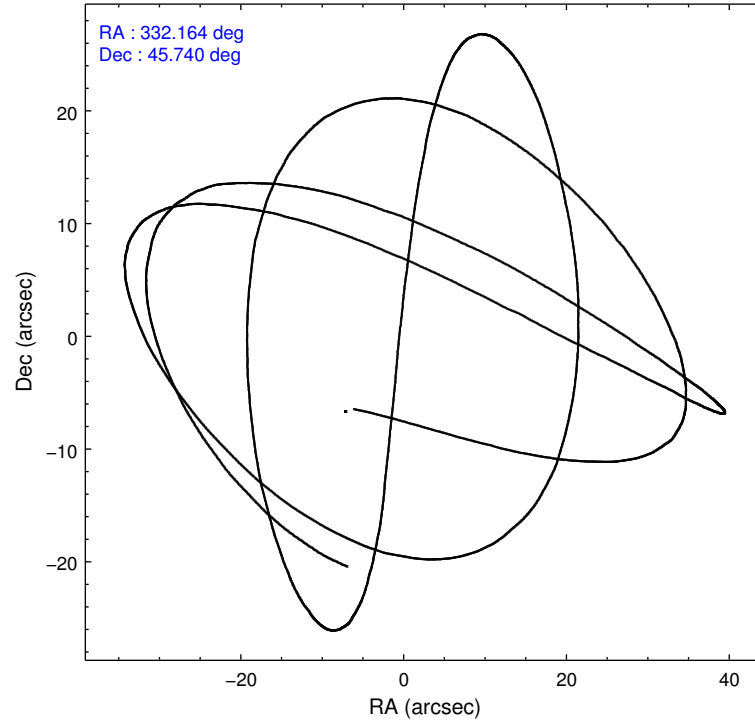
	segment 1	segment 2	segment 3
level 1 events	0	214488	0
rejected events	0	59250	0
rejected %	0%	27%	0%

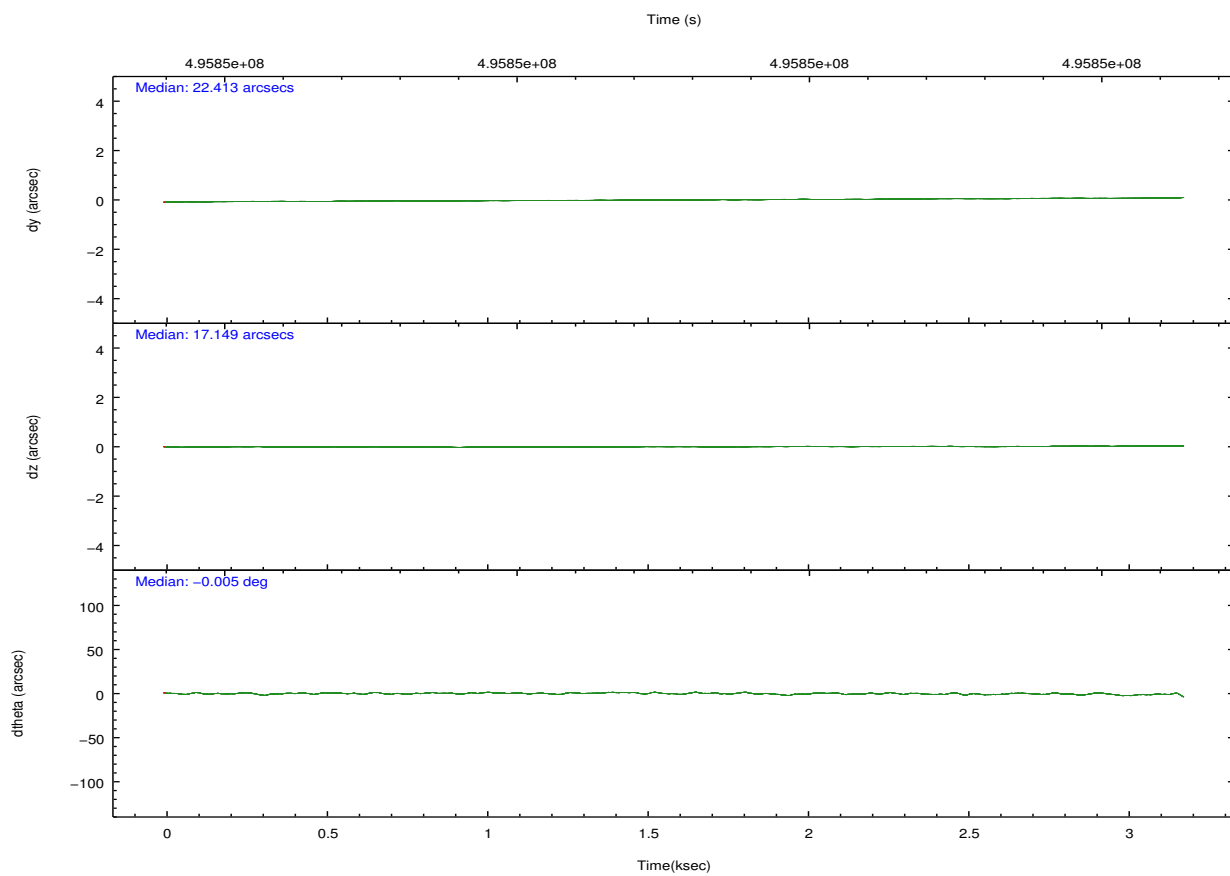
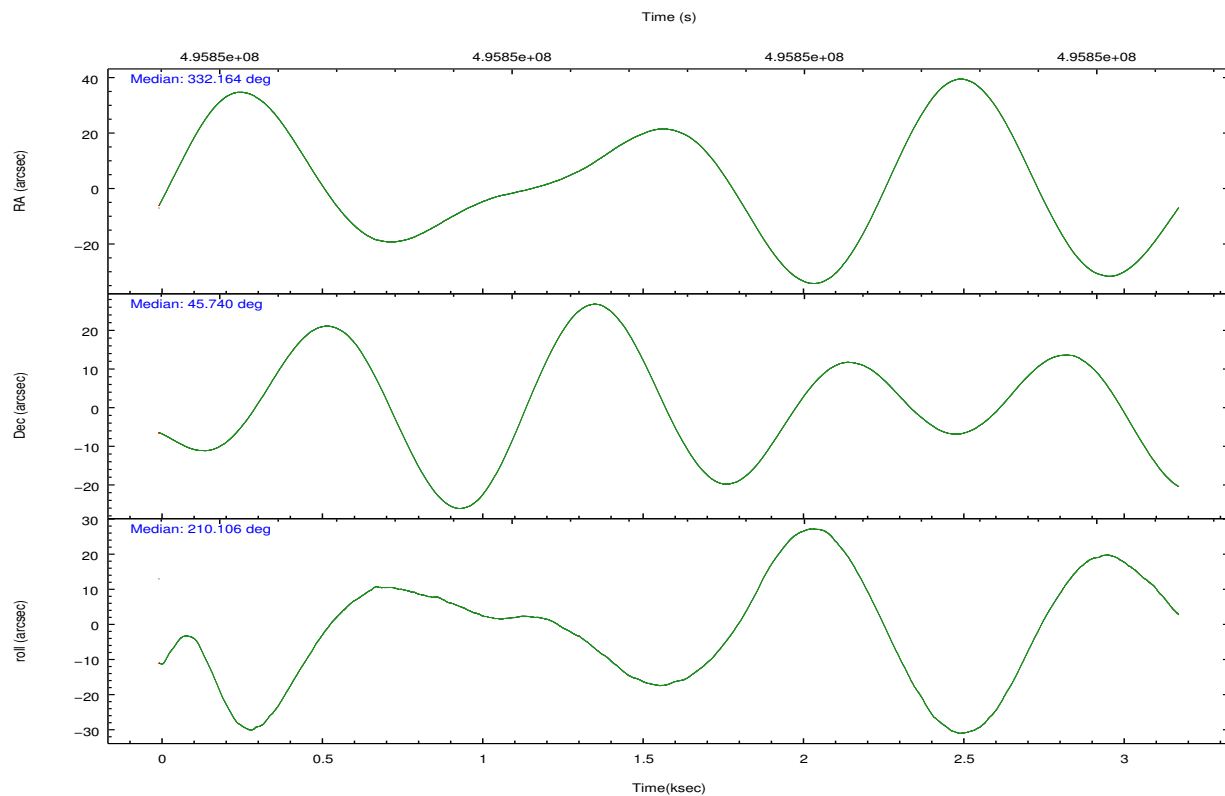
2.2 Compared Parameters

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	332.182746	332.1642283727
[deg] Pointing Dec	45.765536	45.73989983786073
[deg] Pointing Roll	210.027681	210.1081928113107
[s] Window start time (MET)	491702467.184000	491702467.184000
[s] Window stop time (MET)	499564867.184000	499564867.184000
[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)	495846122.184000	495844775.94681
Observation start date	2013-09-17T23:00:55	2013-09-17T22:39:35
[s] Observation end time (MET)	495849122.184000	495849255.70955
Observation end date	2013-09-17T23:50:55	2013-09-17T23:54:15

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

2.3 Aspect



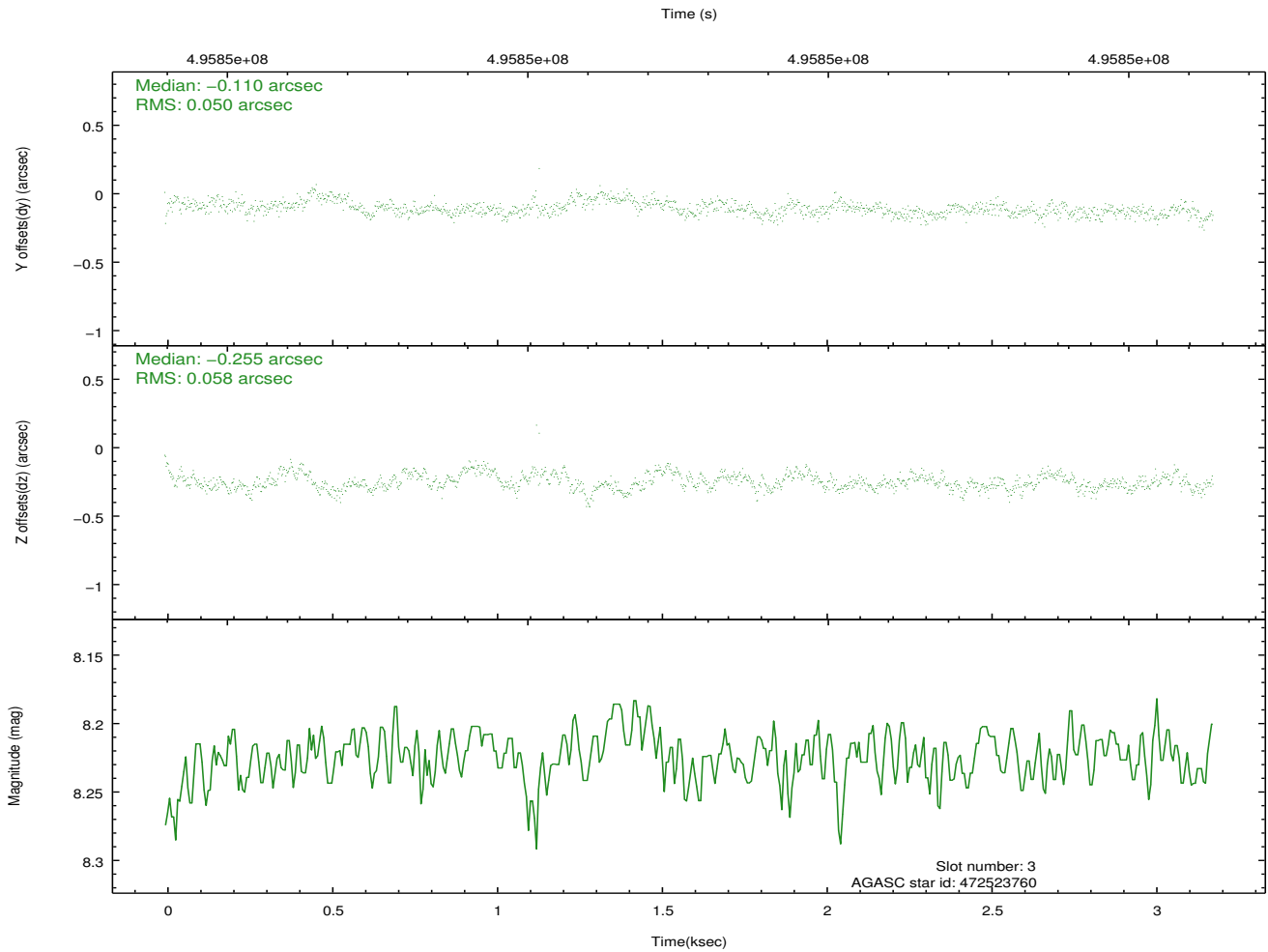
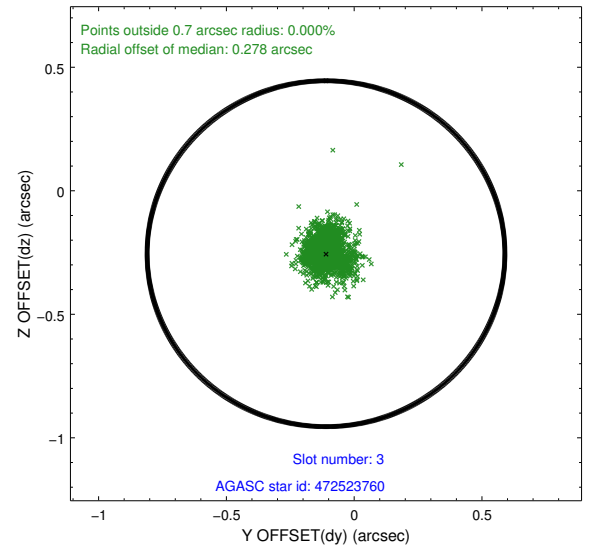
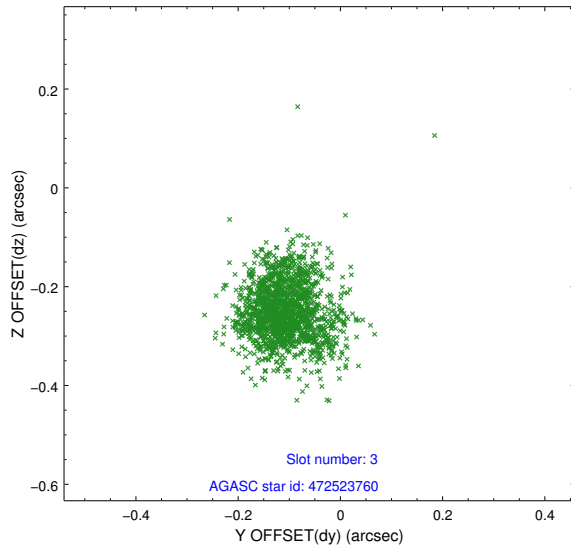


Slot Statistics

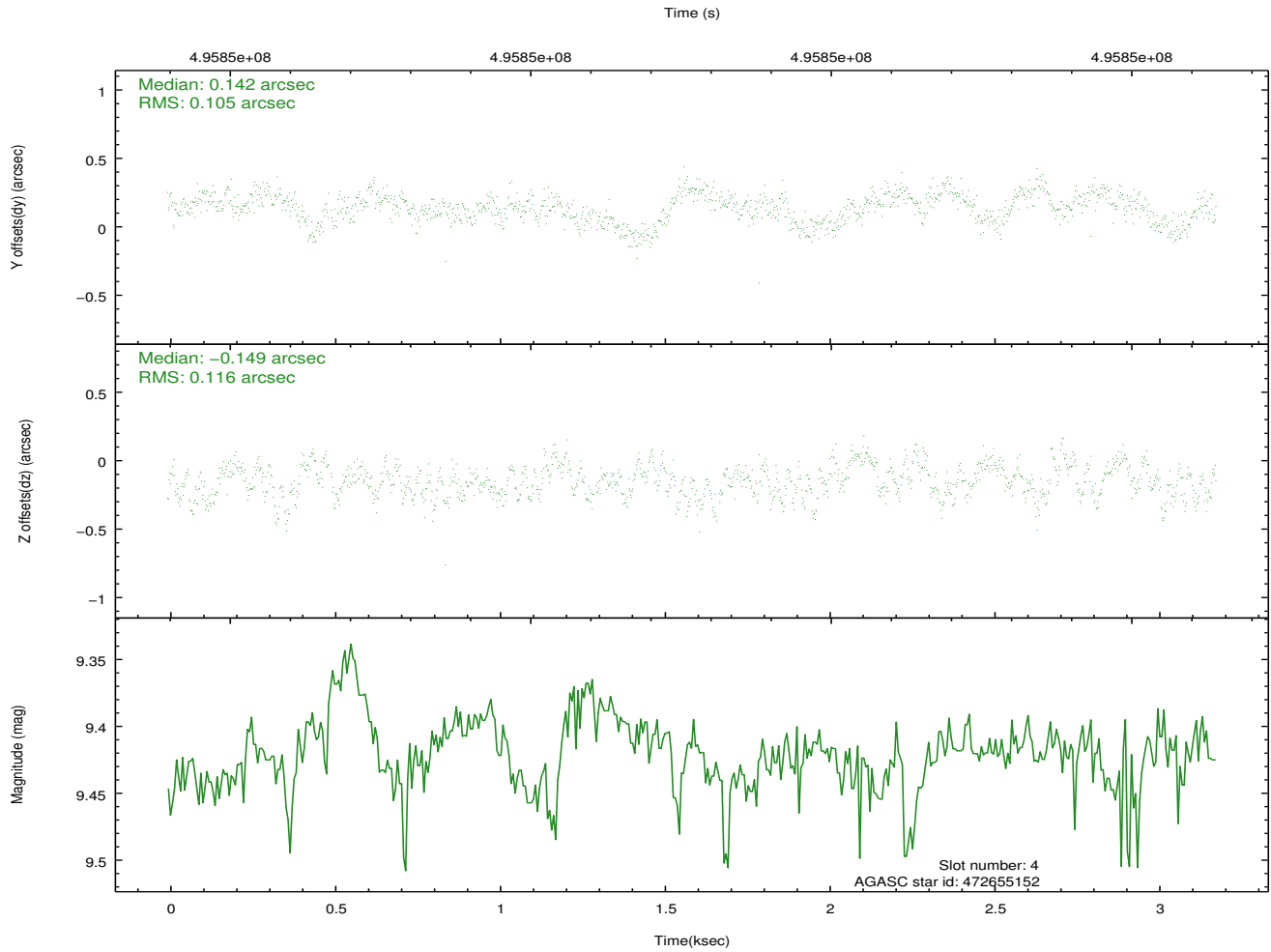
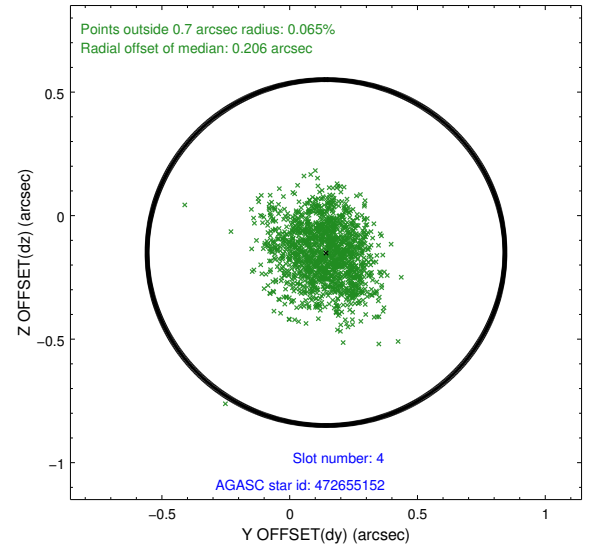
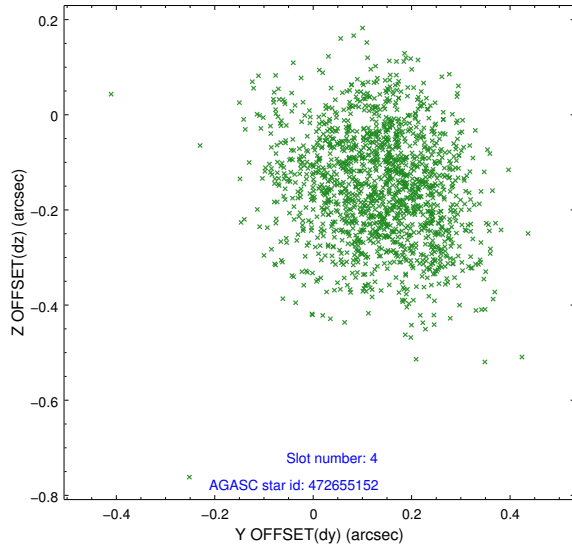
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.01	776	0.013	-0.131	0.008	0.017	0.000000	0.000000	-1177.06	-466.09
1	FID		HRC-S-2	7.00	776	0.291	-0.119	0.008	0.015	0.000000	0.000000	1221.36	-459.26
2	FID		HRC-S-3	7.02	776	0.085	-0.052	0.008	0.015	0.000000	0.000000	-1178.16	562.92
3	GUIDE	used	472523760	8.22	1552	-0.110	-0.255	0.080	0.131	331.645363	45.403260	1827.01	445.24
4	GUIDE	used	472655152	9.42	1543	0.142	-0.149	0.167	0.264	332.504239	45.862991	-872.30	98.26
5	GUIDE	used	472665256	9.00	1549	0.302	0.283	0.103	0.173	332.808125	46.195041	-2125.61	-564.02
6	GUIDE	used	472533912	9.15	1551	0.242	0.218	0.131	0.216	331.791136	46.368695	-245.92	-2369.10
7	GUIDE	used	472525528	6.65	1551	-0.574	-0.108	0.090	0.142	331.551102	45.248694	2313.86	802.73

2.4 Star Slots

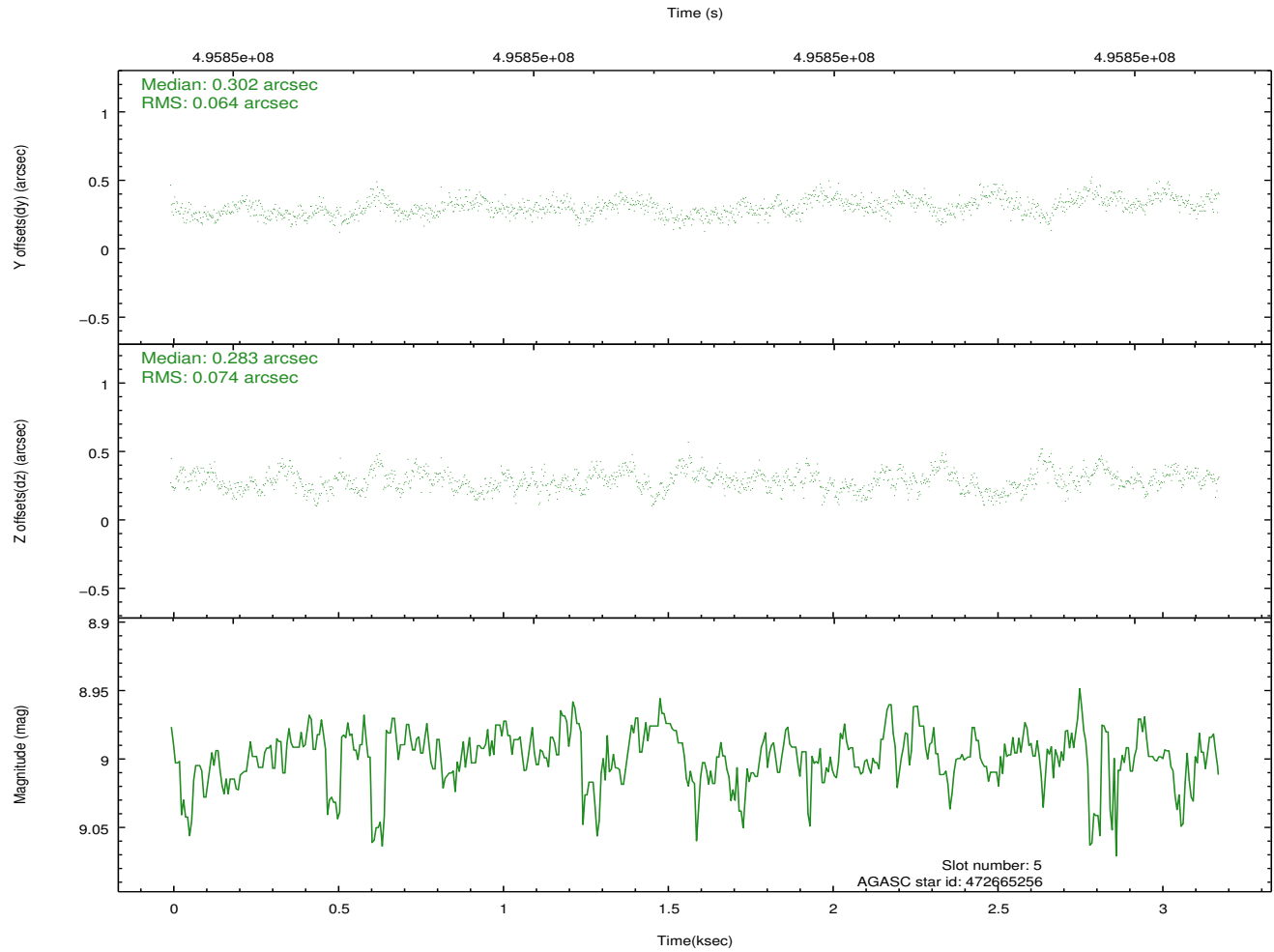
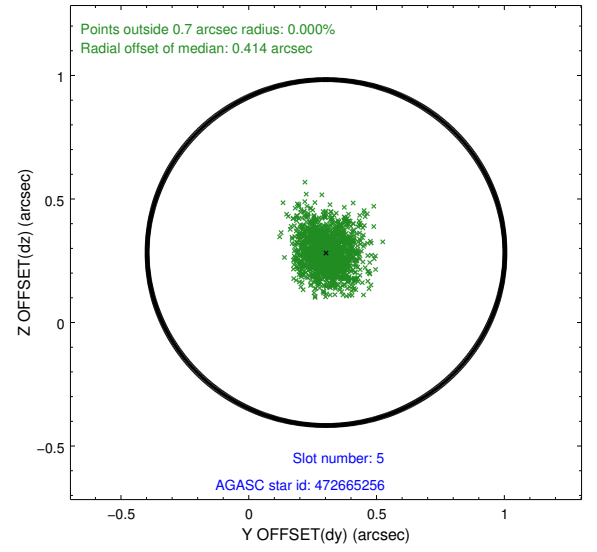
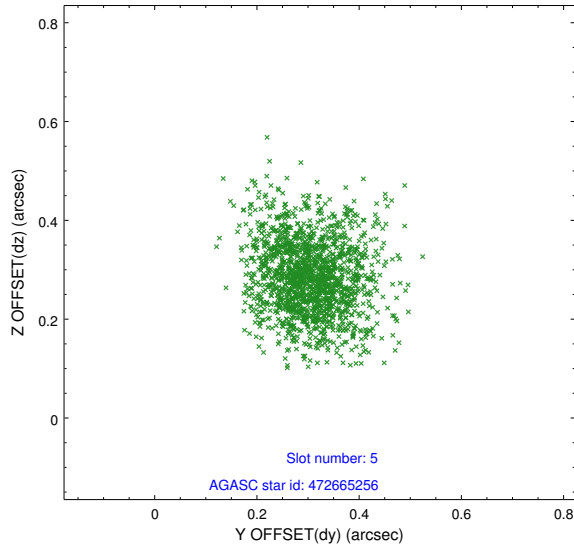
2.4.1 Slot 3



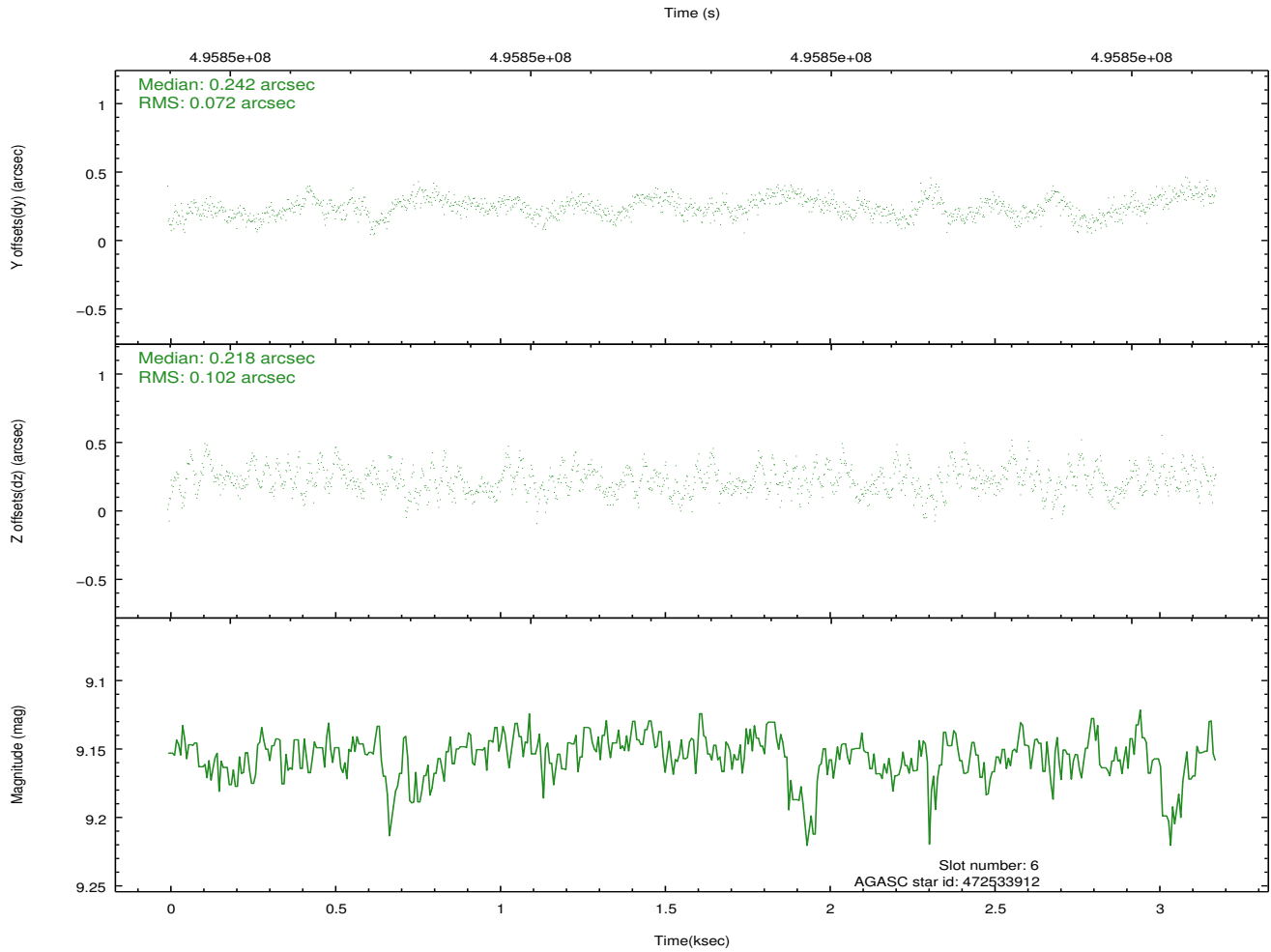
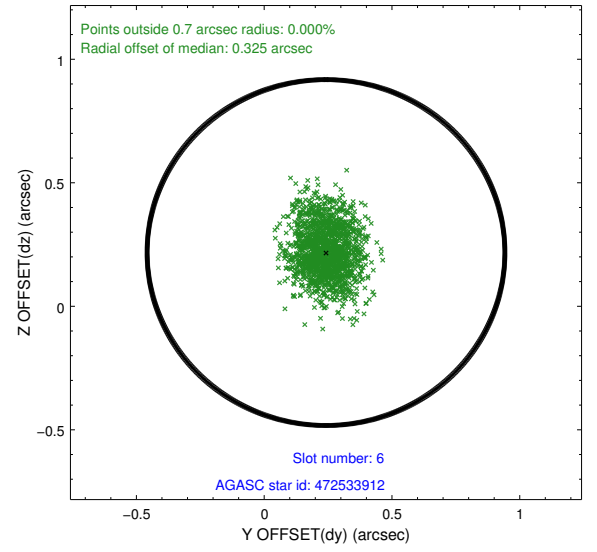
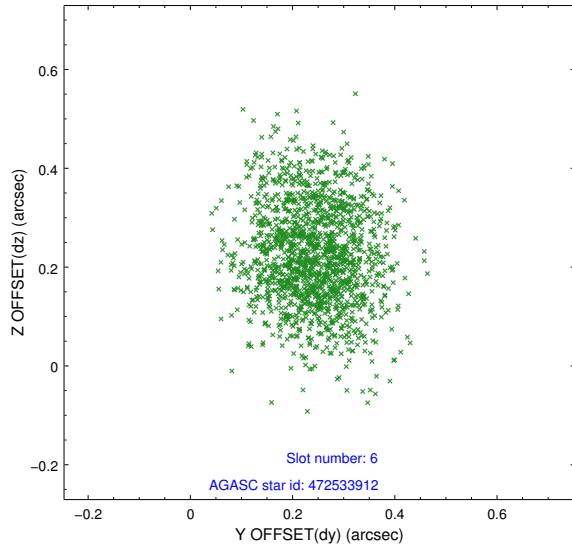
2.4.2 Slot 4



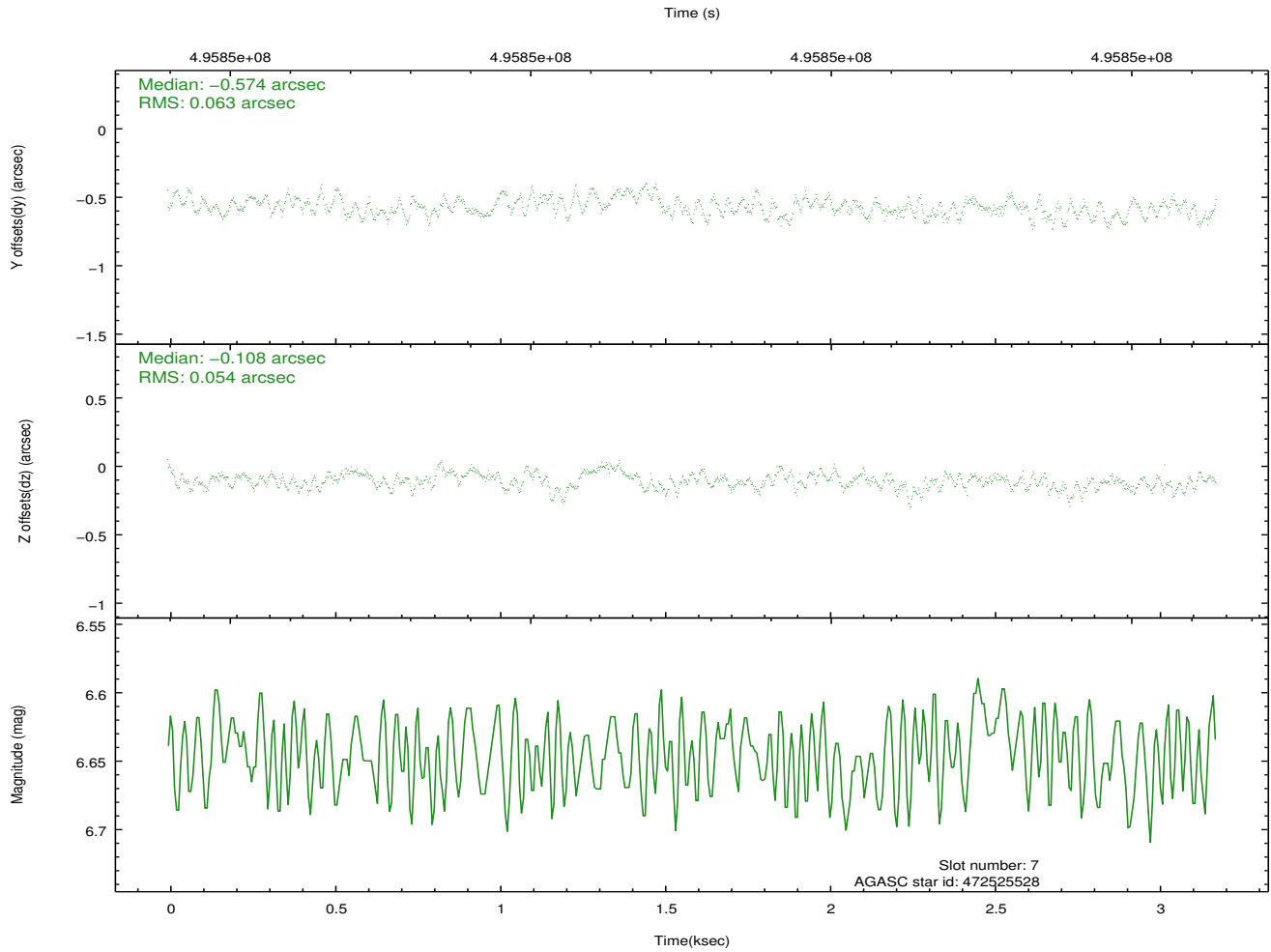
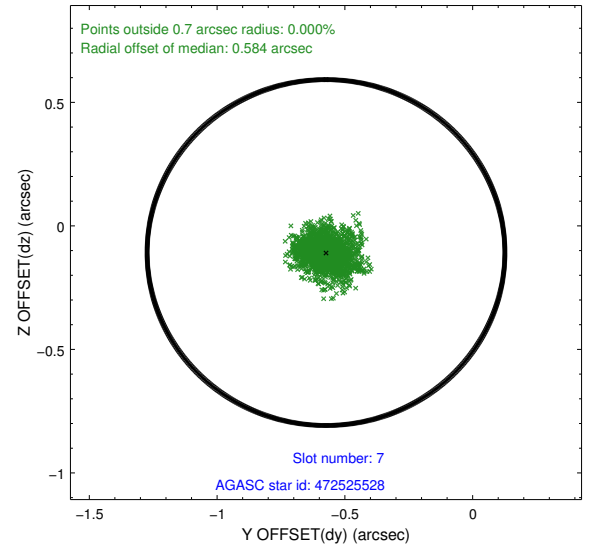
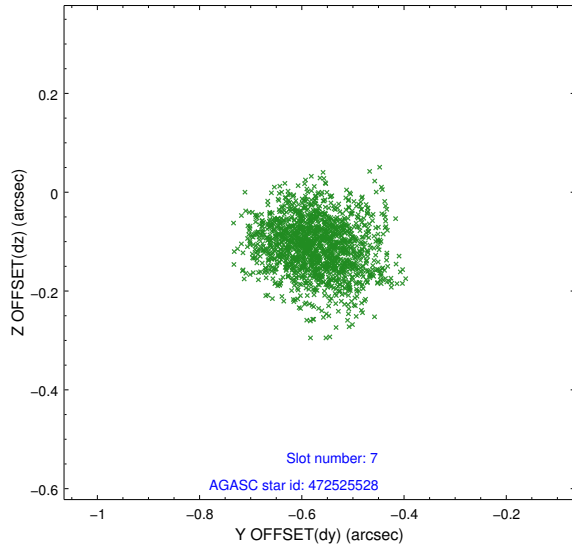
2.4.3 Slot 5



2.4.4 Slot 6

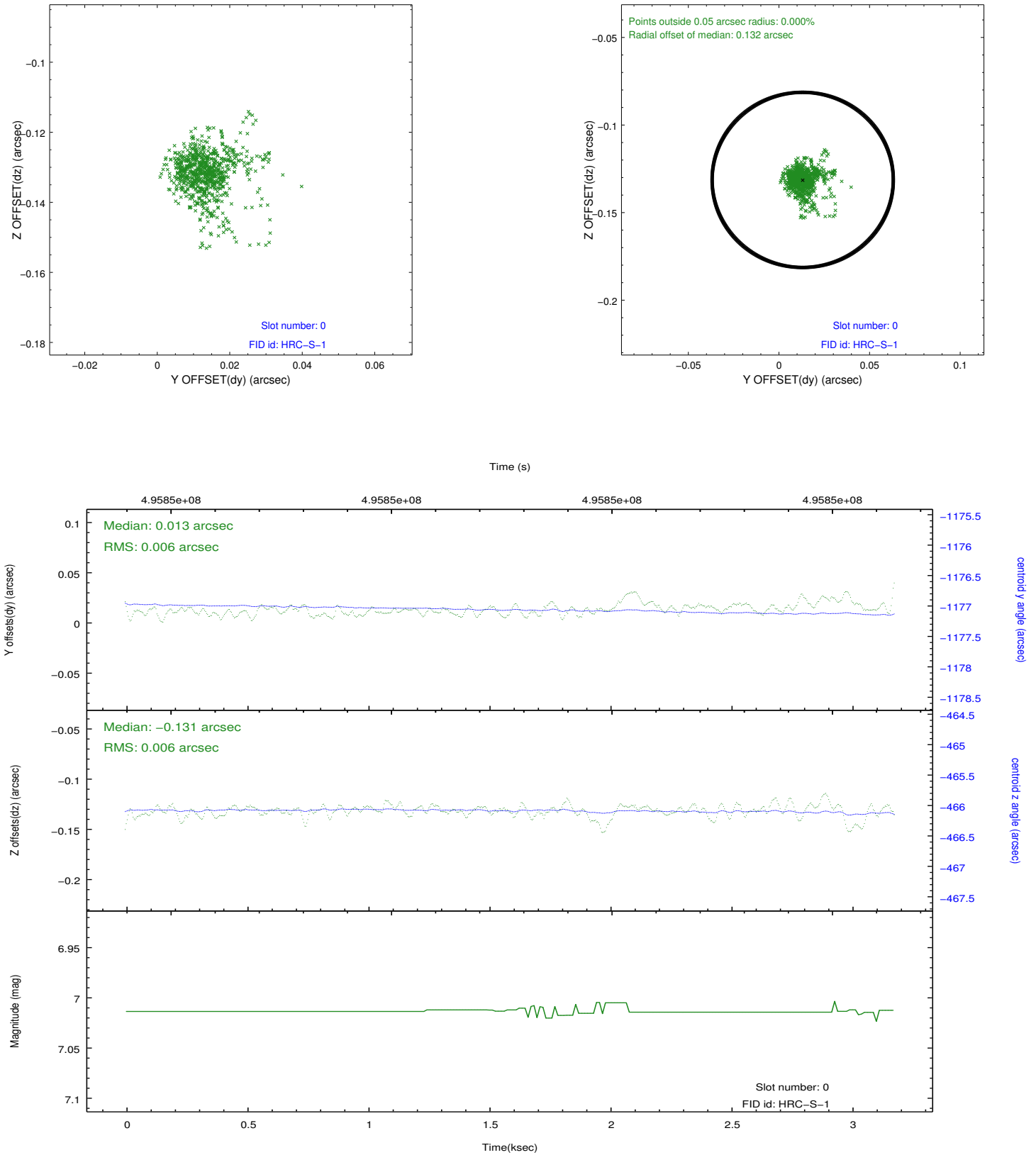


2.4.5 Slot 7

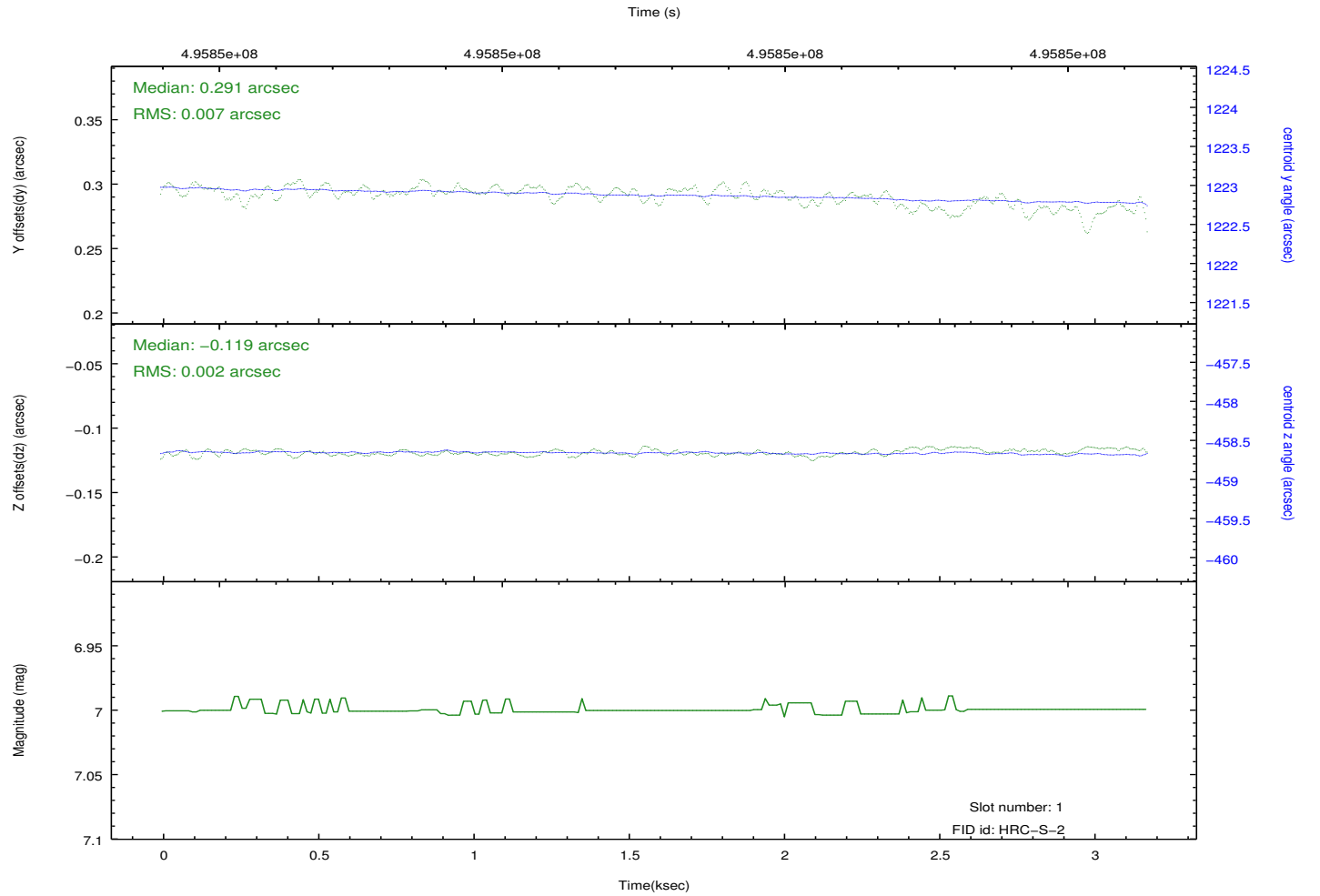
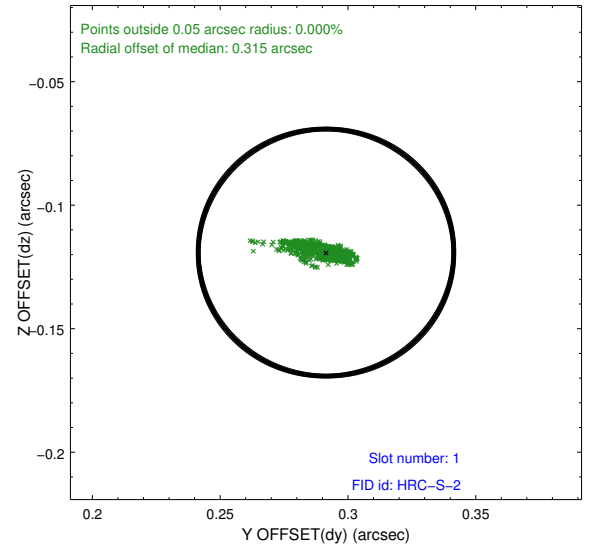
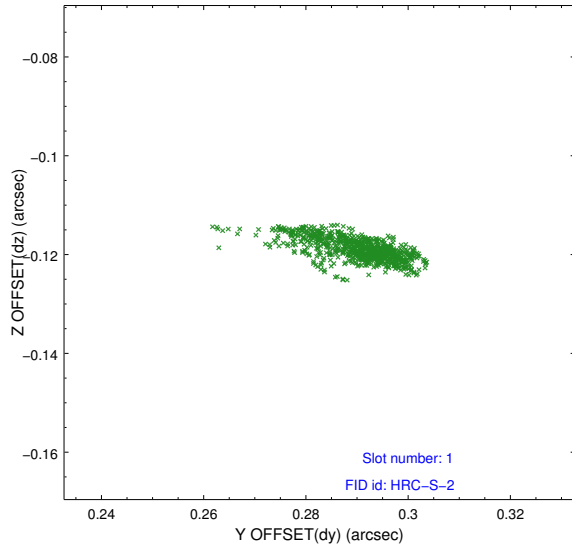


2.5 FID Slots

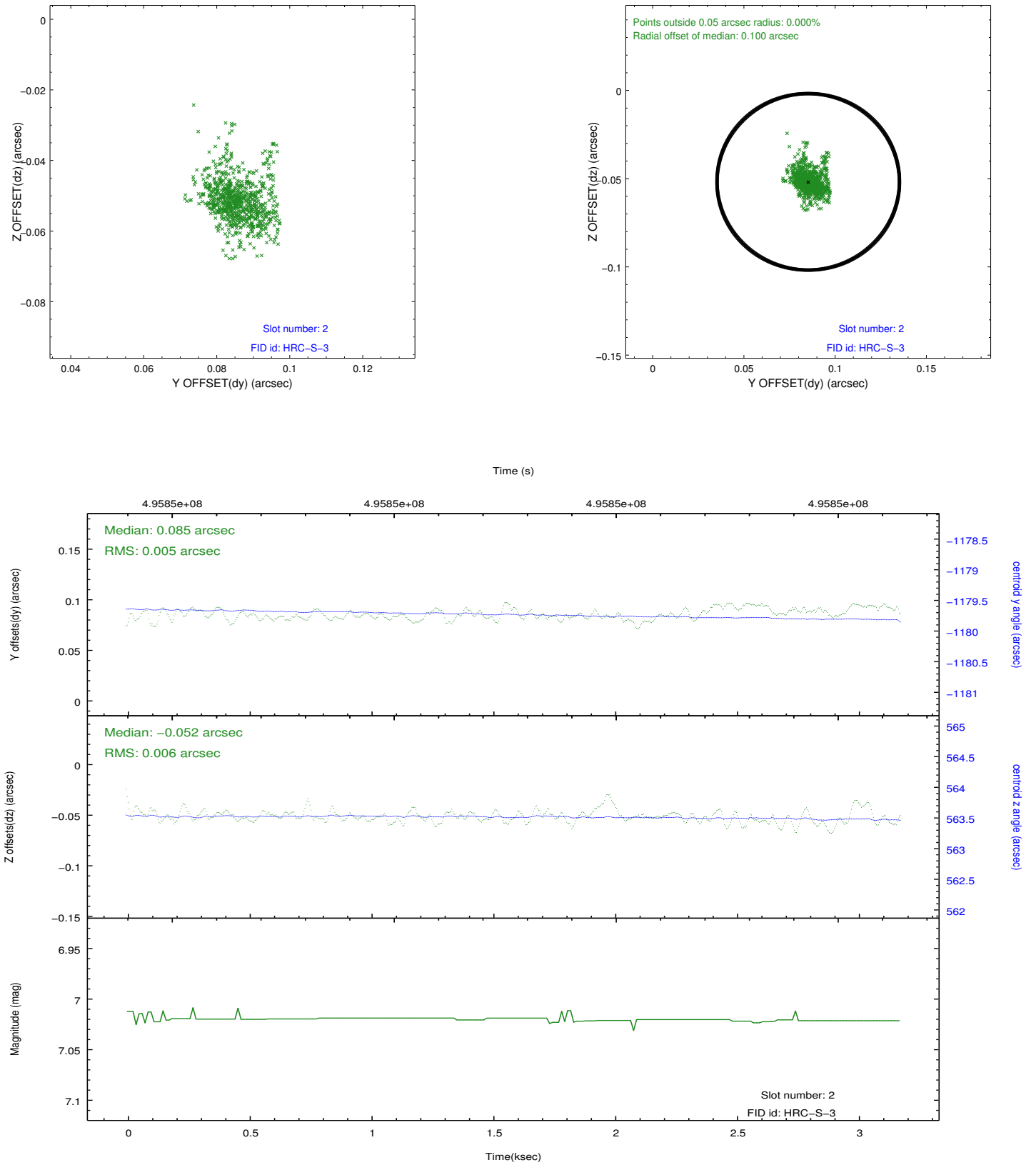
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1787814235091

A.2 Comments

Window preference met.

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.