

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 15409 - L2 Version 2
Chandra X-Ray Center

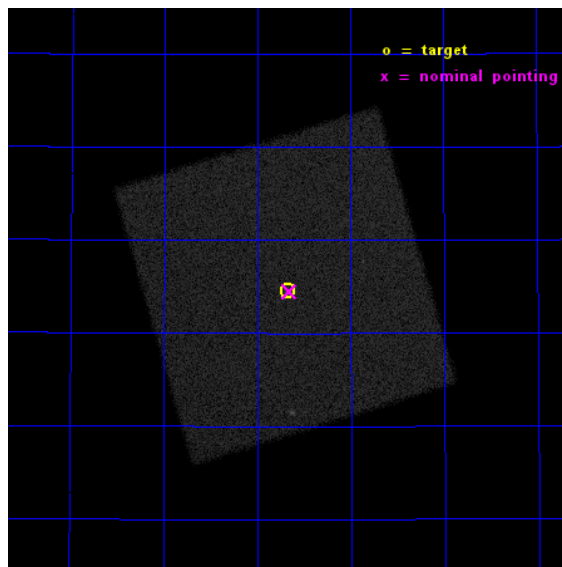
L2 Processing Date : Dec 6 2014

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

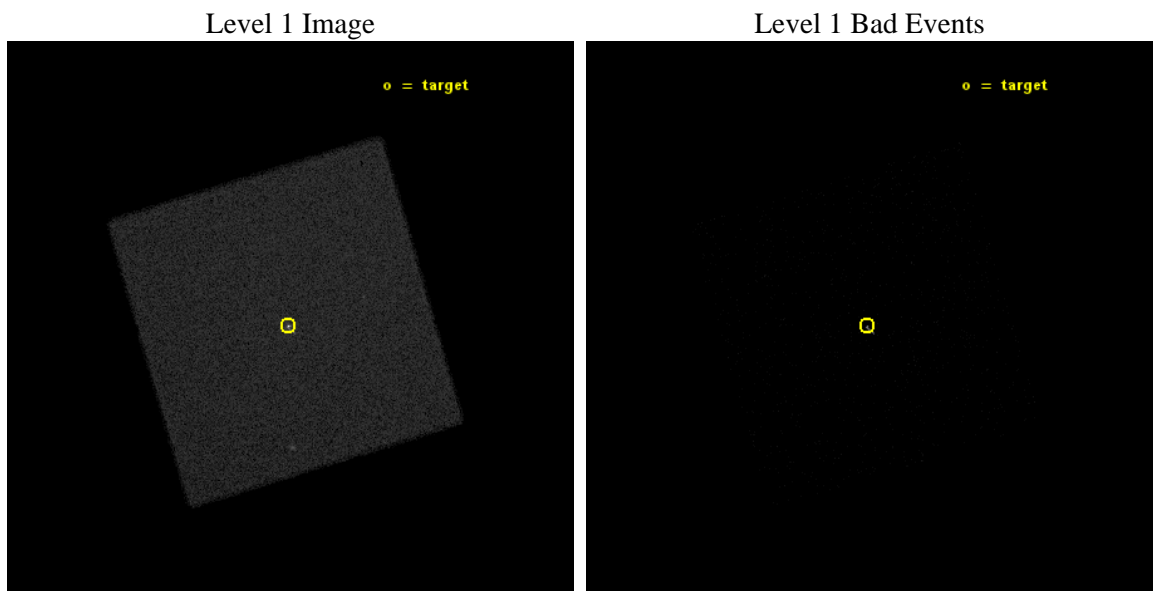
seq_num	291088	Sequence number
obs_id	15409	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16424684881	Nominal RA [deg]
dec_nom	45.741708423051	Nominal Dec [deg]
roll_nom	208.35661463139	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3170.3251731396	[s]
livetime	3145.58993683	Ontime multiplied by DTCOR
l2events	196337	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	3170.3251731396	[s]
caldbver	4.6.4	 	l1events	345529	Number of level 1 events
date	2014-12-06T16:04:38	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

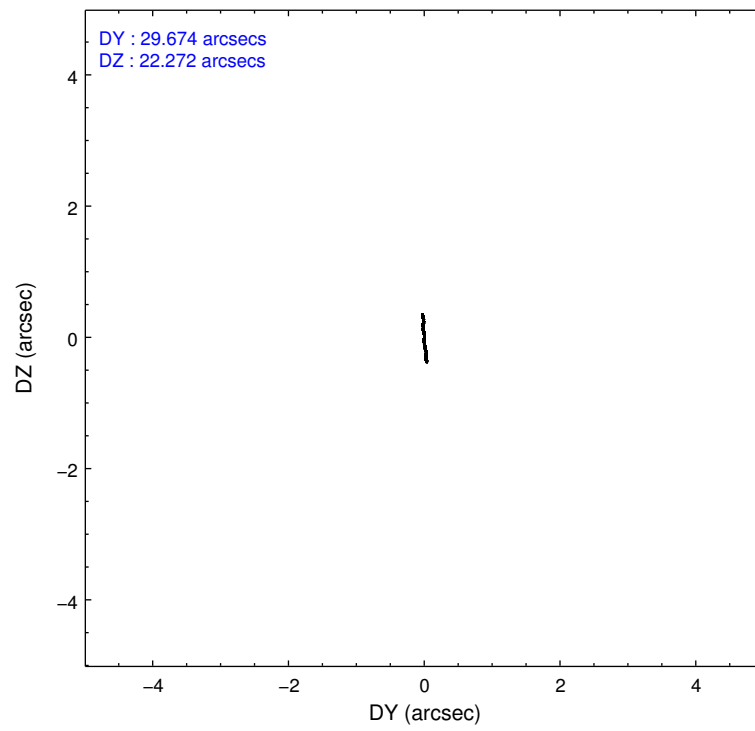
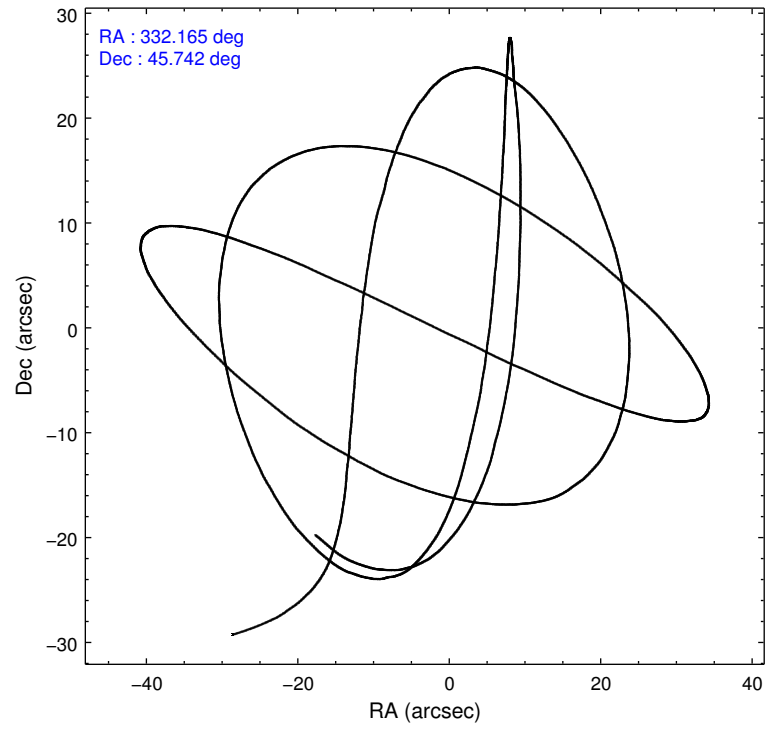
Level 1 Events

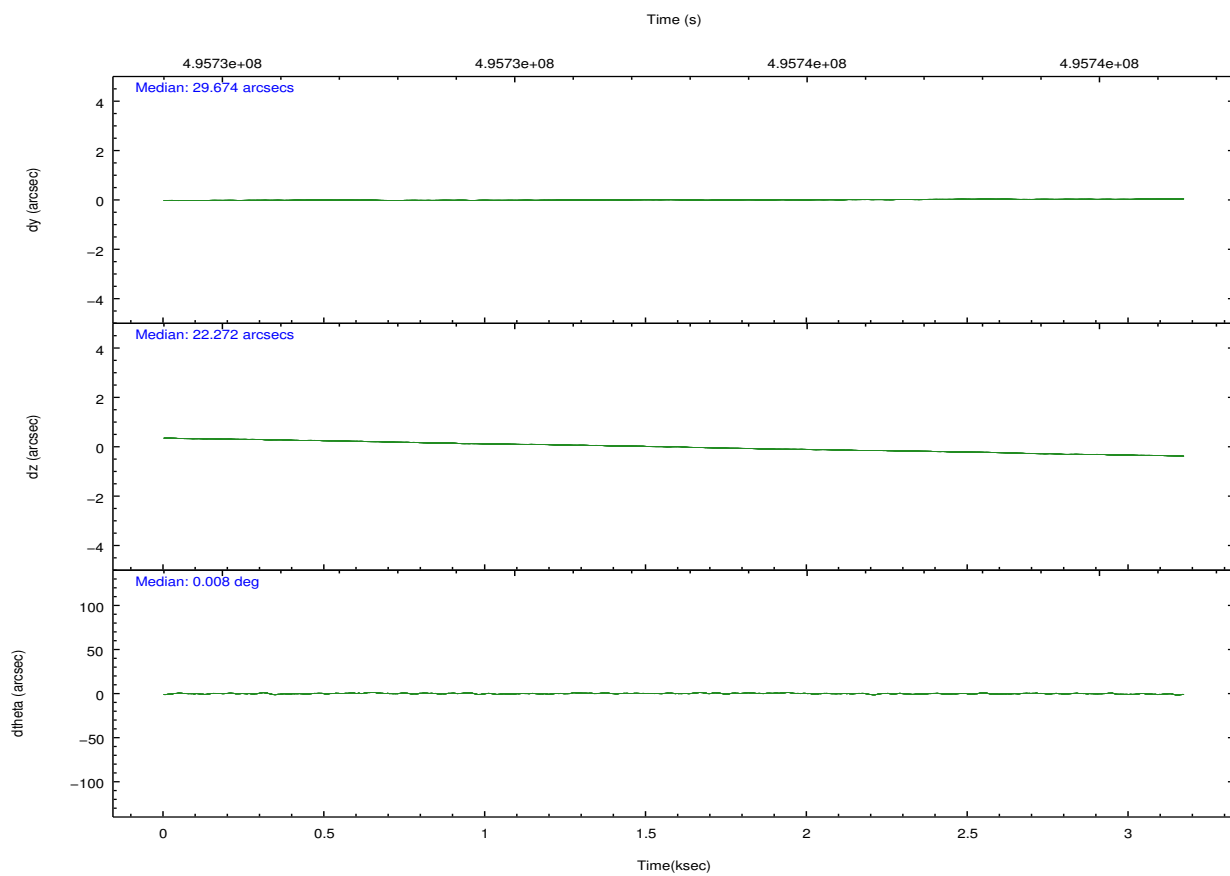
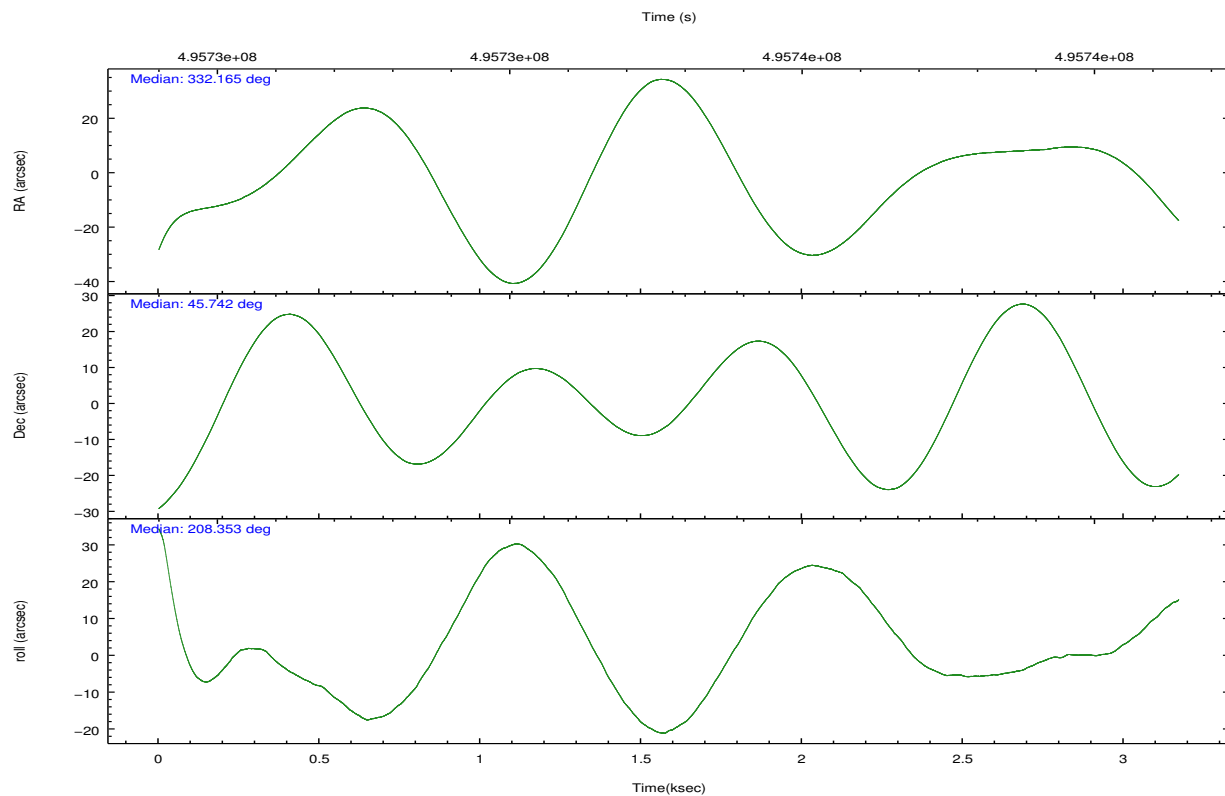
	segment 0
level 1 events	345529
rejected events	84265
rejected %	24%

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	332.183669	332.16424684881			
[deg] Pointing Dec	45.765296	45.74170842305067			
[deg] Pointing Roll	208.438058	208.3566146313894			
[s] Window start time (MET)	491702467.184000	491702467.184000			
[s] Window stop time (MET)	499564867.184000	499564867.184000			
[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)	495733134.184000	495732029.01566			
Observation start date	2013-09-16T15:37:47	2013-09-16T15:20:29			
[s] Observation end time (MET)	495736134.184000	495736268.41589			
Observation end date	2013-09-16T16:27:47	2013-09-16T16:31:08			

2.3 Aspect



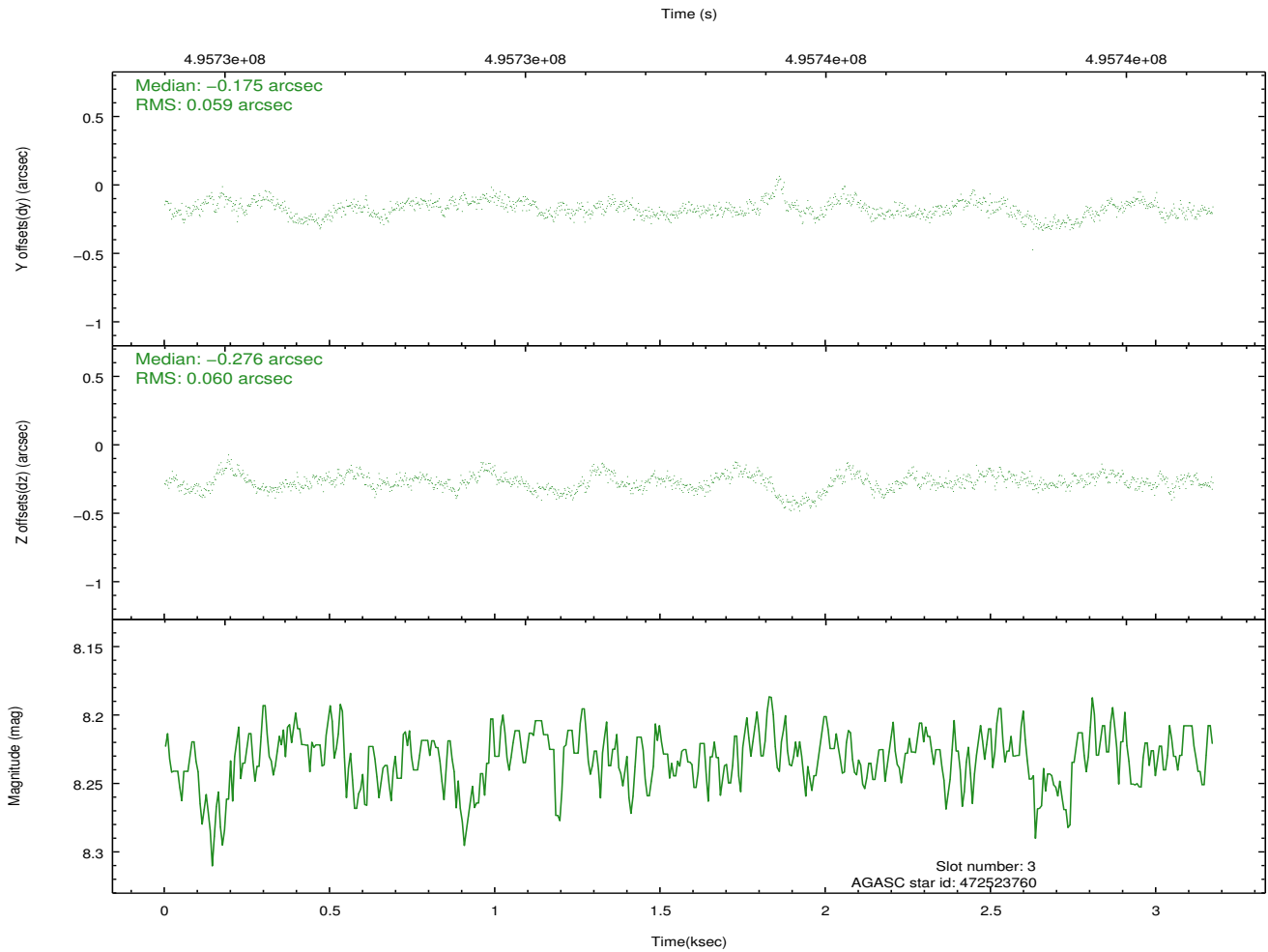
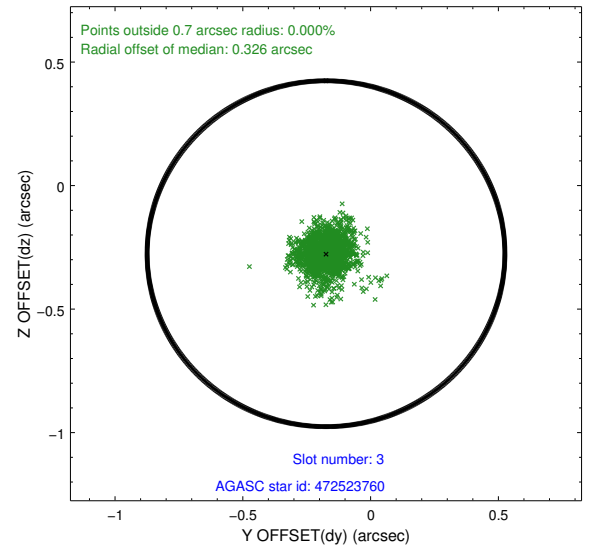
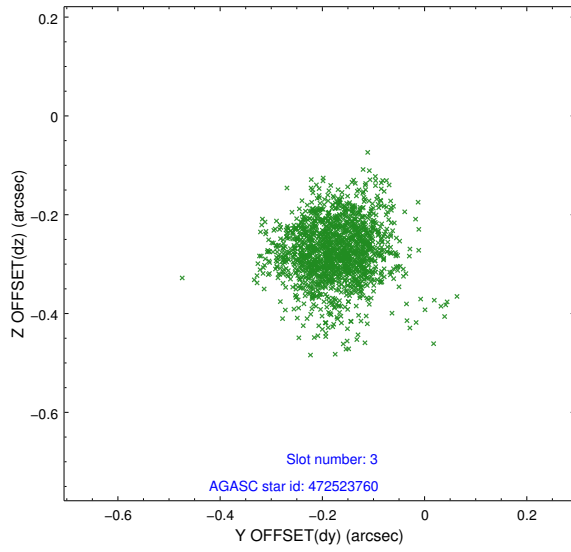


Slot Statistics

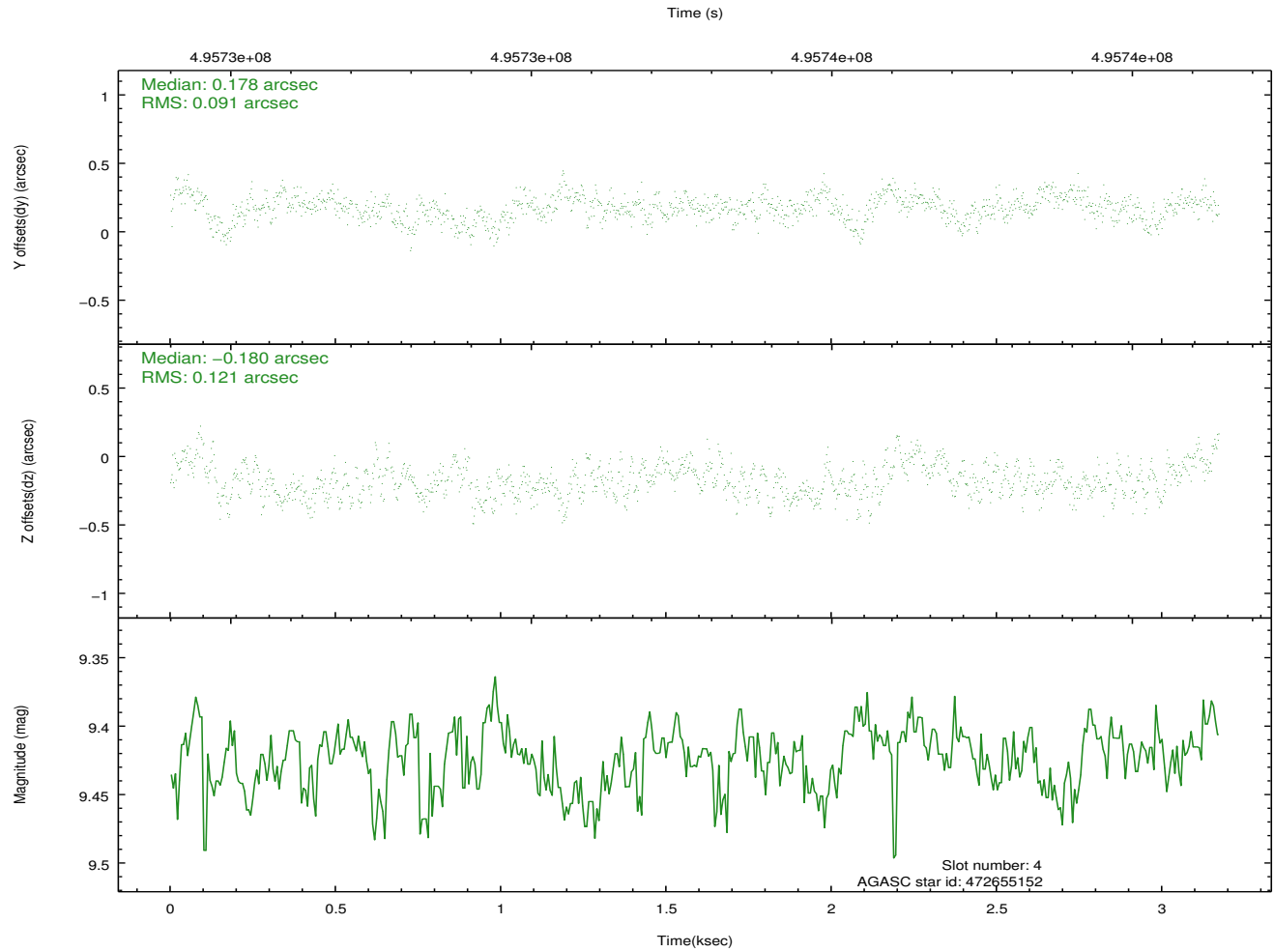
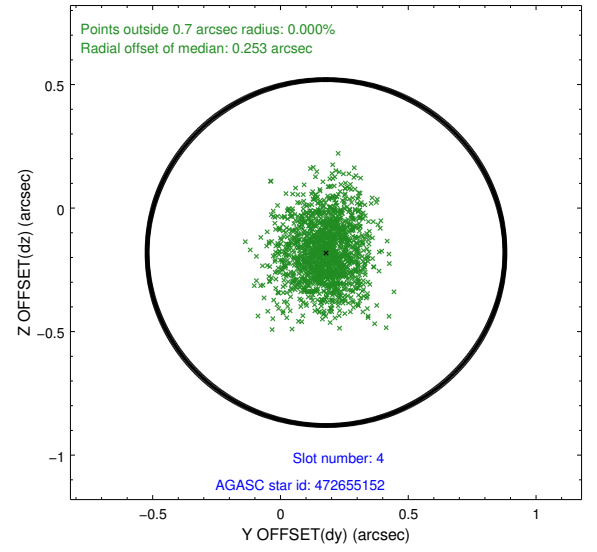
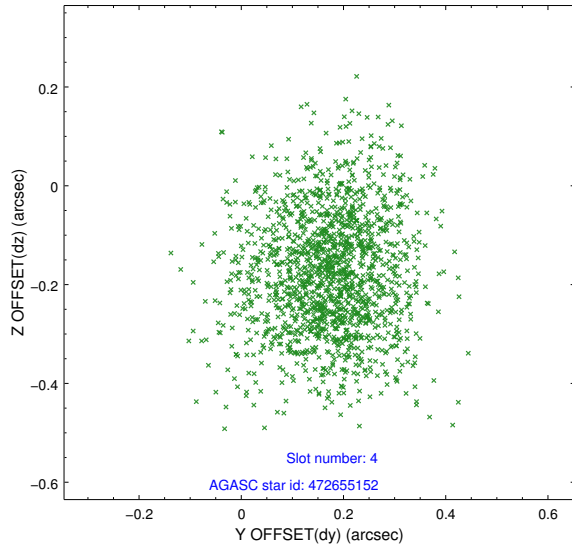
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.06	774	0.078	-0.087	0.006	0.010	0.000000	0.000000	826.84	-1312.21
1	FID		HRC-I-3	7.10	774	-0.231	0.018	0.006	0.010	0.000000	0.000000	-1213.54	992.31
2	FID		HRC-I-4	7.03	774	0.272	-0.016	0.007	0.012	0.000000	0.000000	1255.61	992.89
3	GUIDE	used	472523760	8.23	1548	-0.175	-0.276	0.089	0.147	331.645363	45.403260	1815.65	493.60
4	GUIDE	used	472655152	9.42	1540	0.178	-0.180	0.163	0.269	332.504239	45.862991	-872.86	71.98
5	GUIDE	used	472665256	9.01	1545	0.343	0.342	0.104	0.166	332.808125	46.195041	-2107.42	-624.85
6	GUIDE	used	472533912	9.16	1546	0.298	0.287	0.128	0.212	331.791136	46.368695	-178.30	-2377.06
7	GUIDE	used	472525528	6.66	1547	-0.635	-0.182	0.095	0.152	331.551102	45.248694	2292.42	864.41

2.4 Star Slots

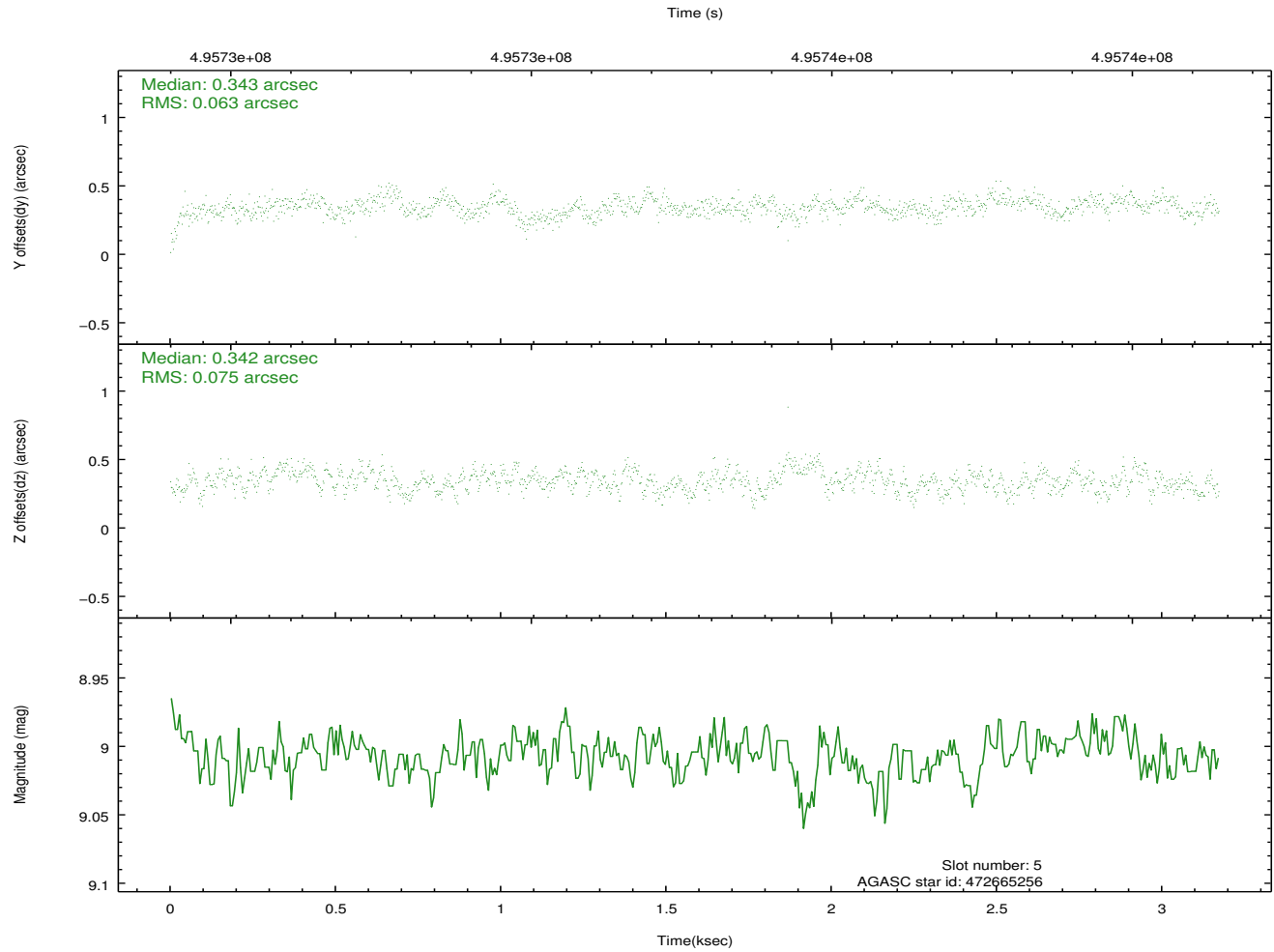
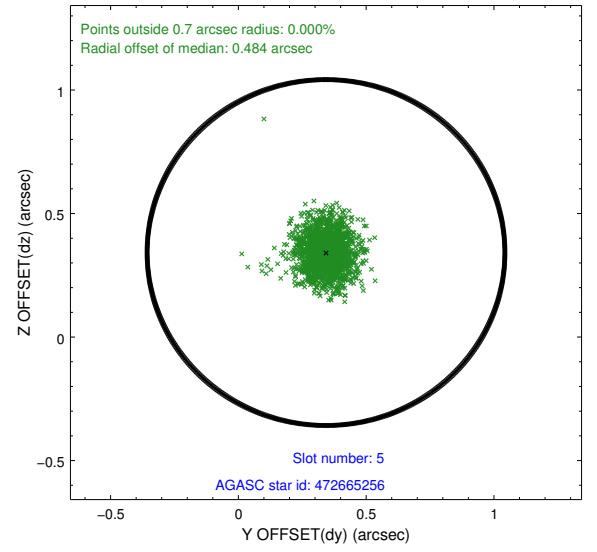
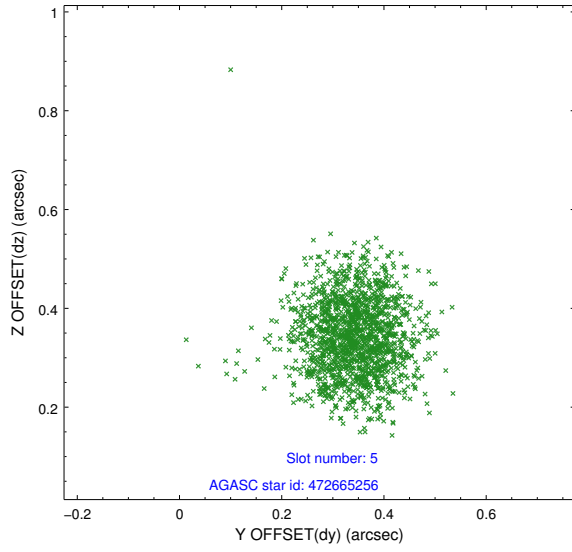
2.4.1 Slot 3



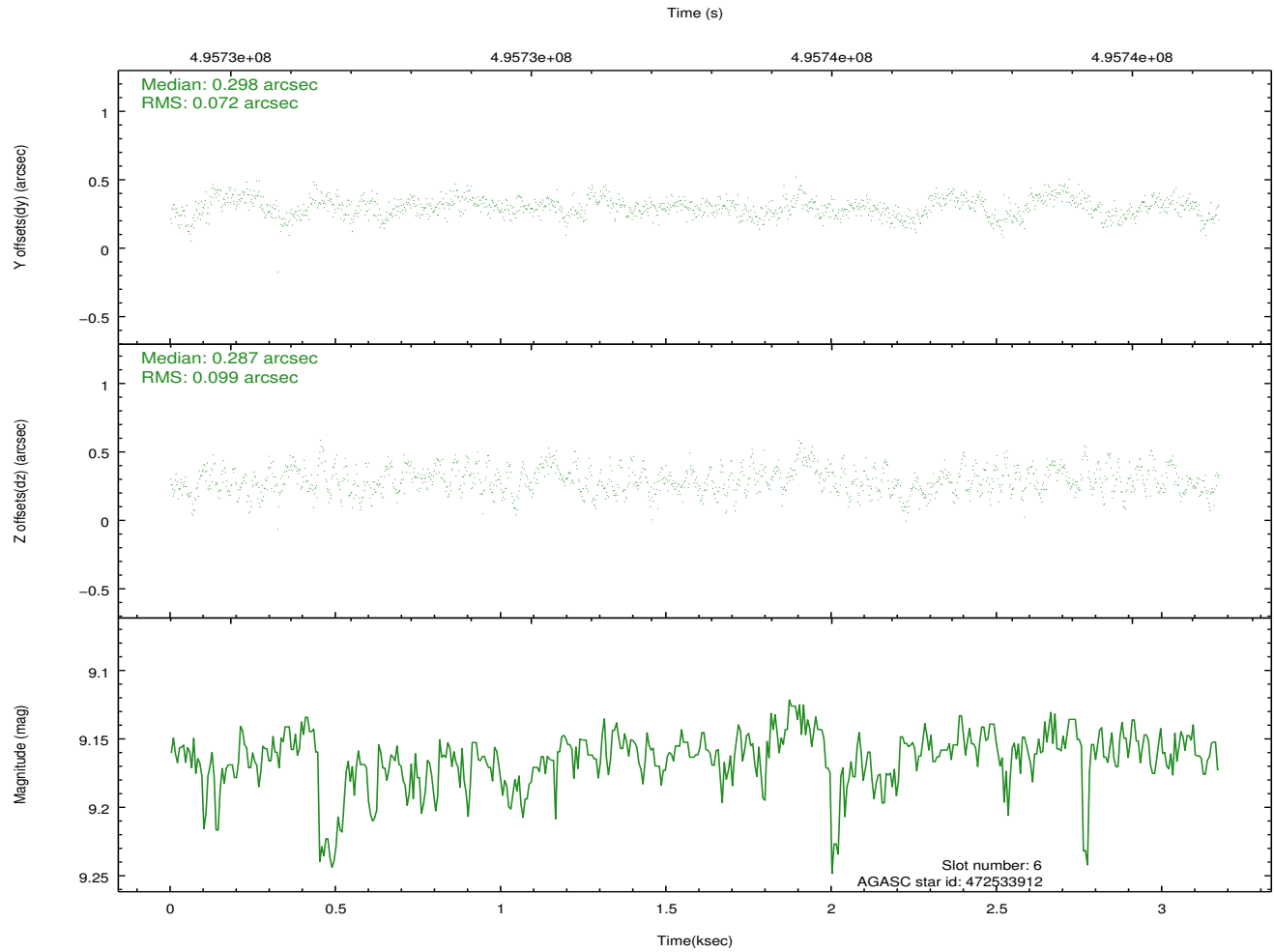
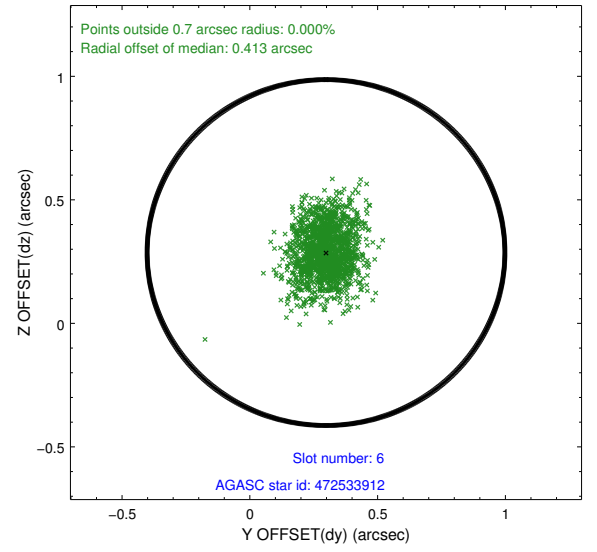
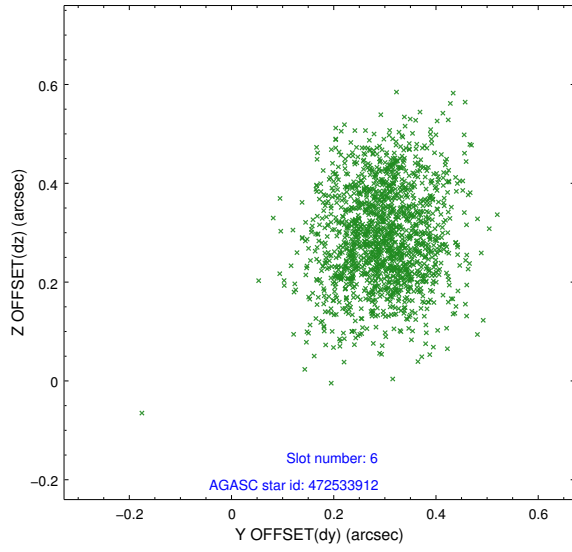
2.4.2 Slot 4



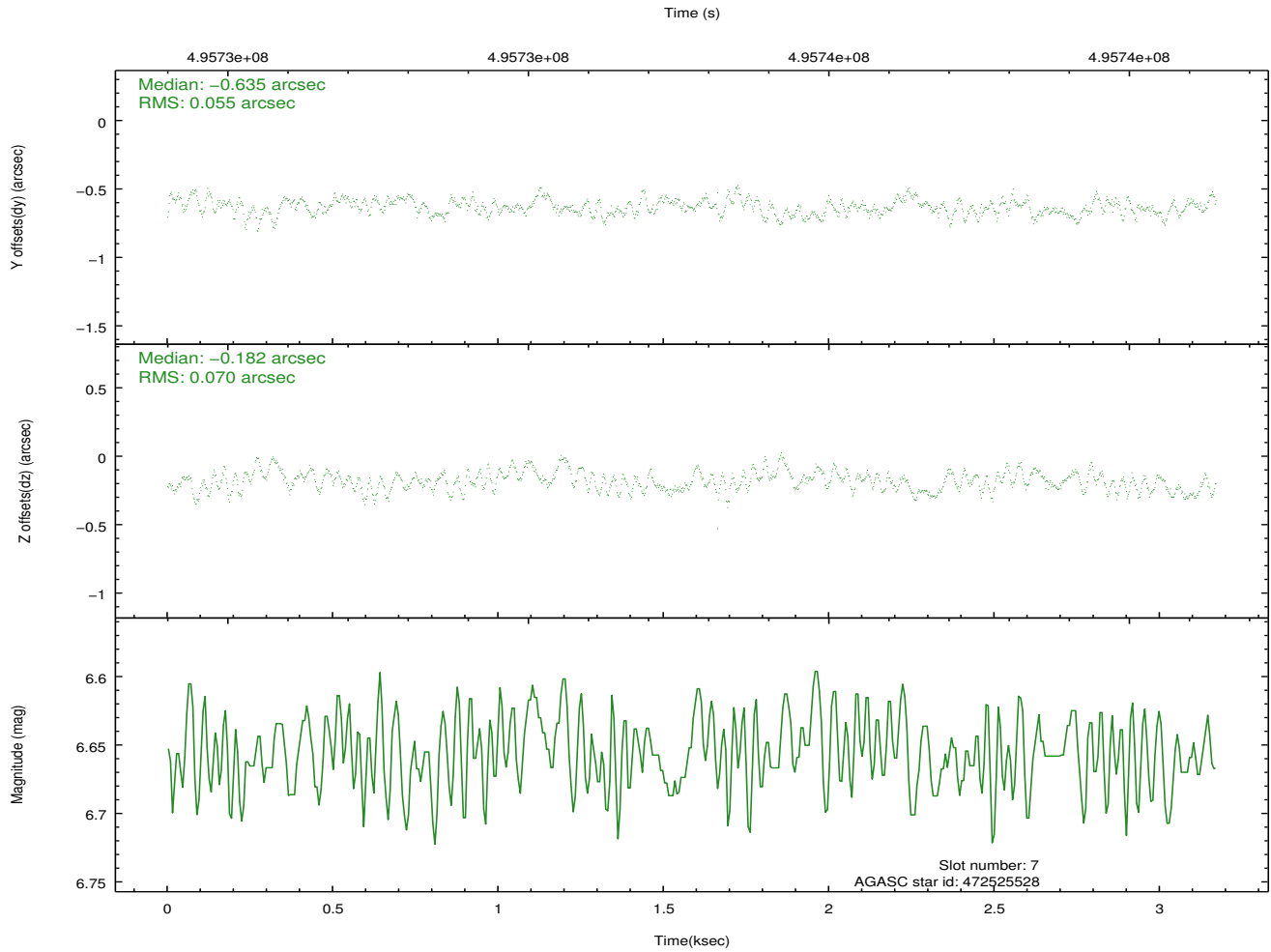
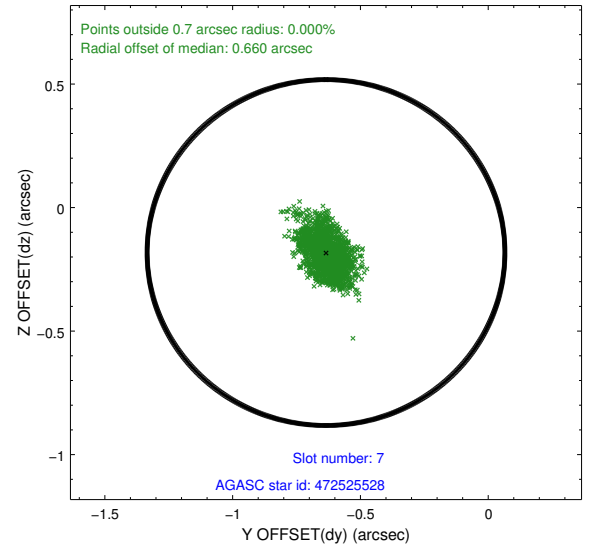
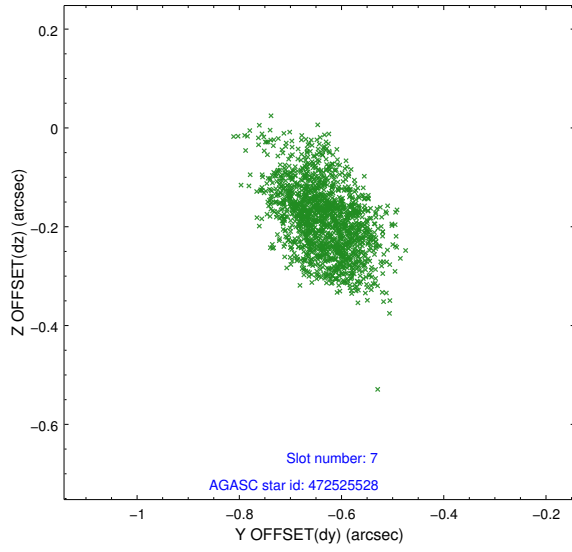
2.4.3 Slot 5



2.4.4 Slot 6

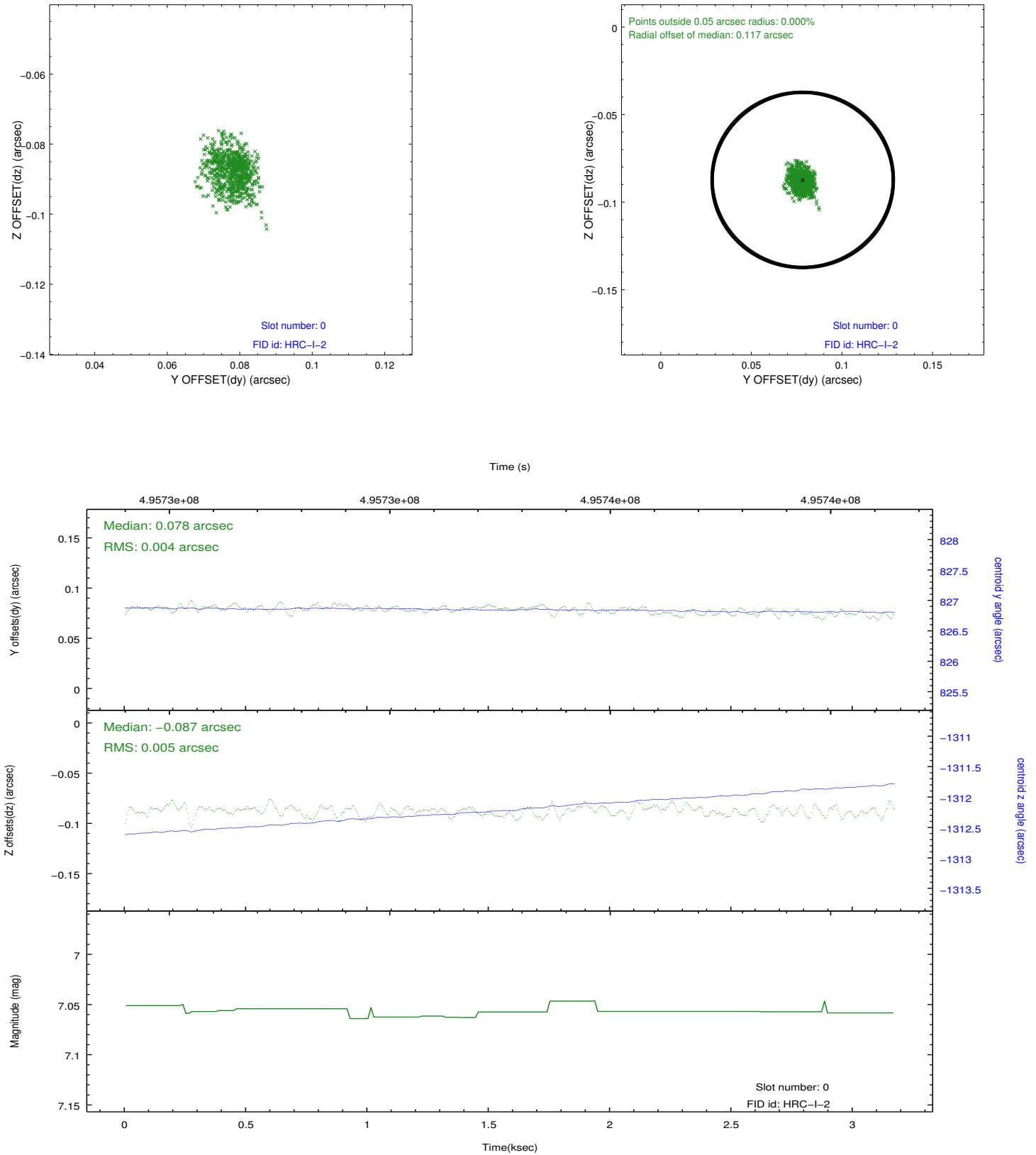


2.4.5 Slot 7

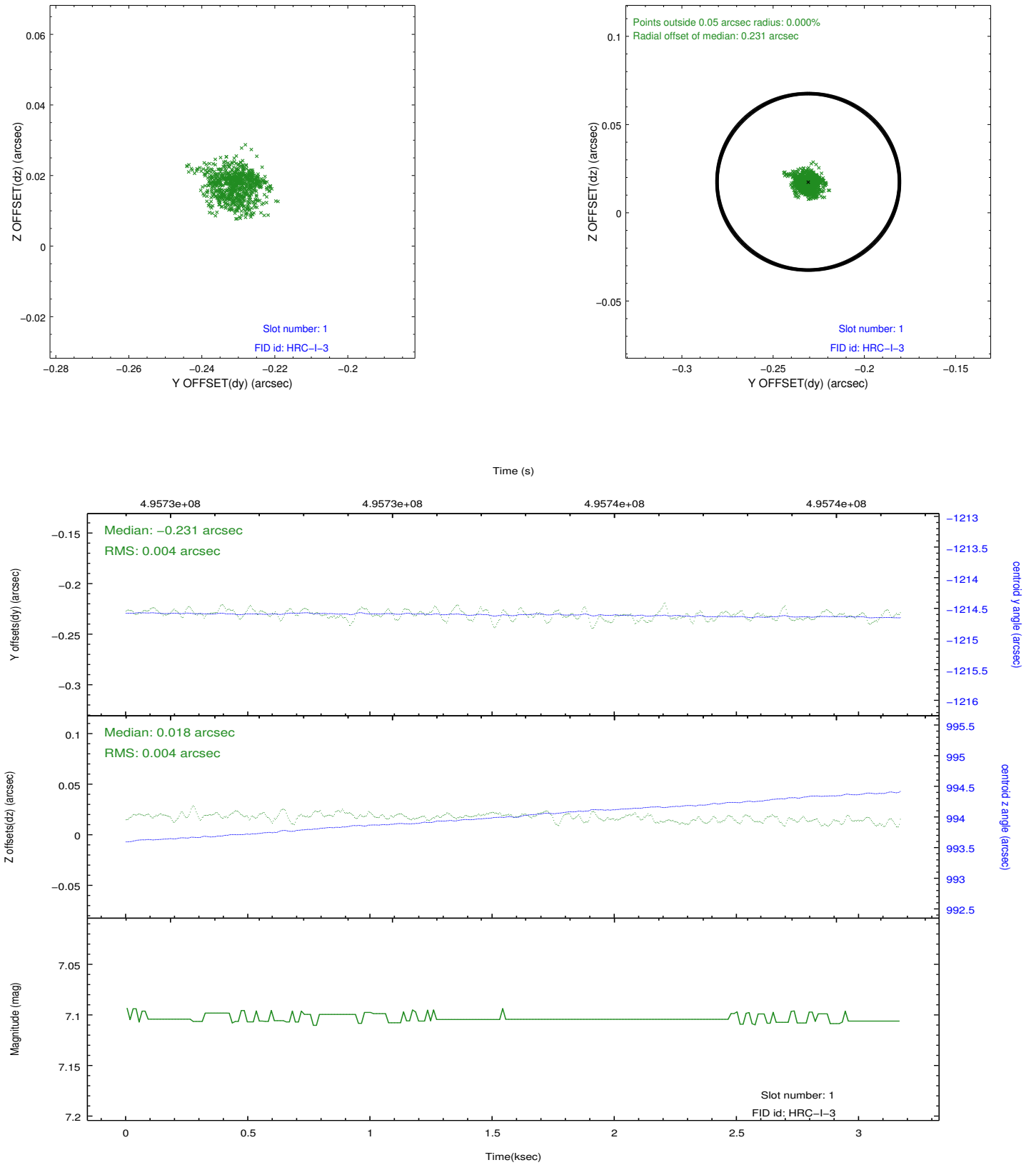


2.5 FID Slots

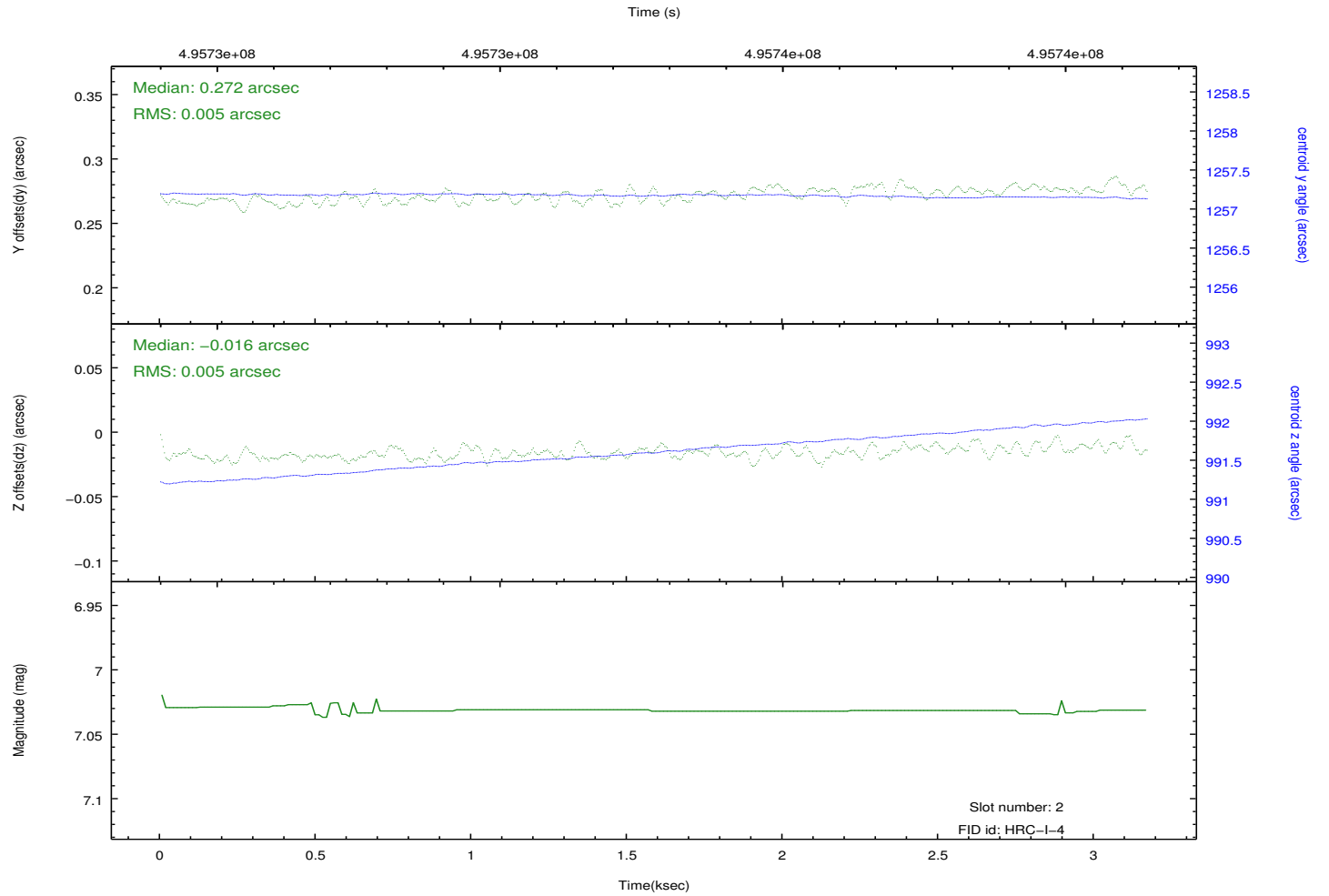
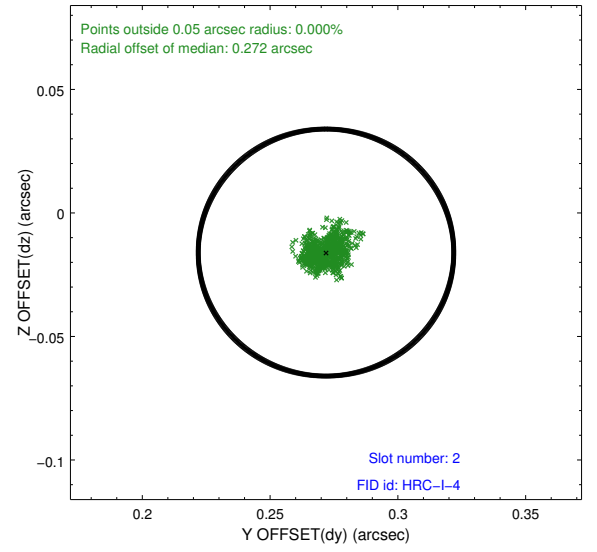
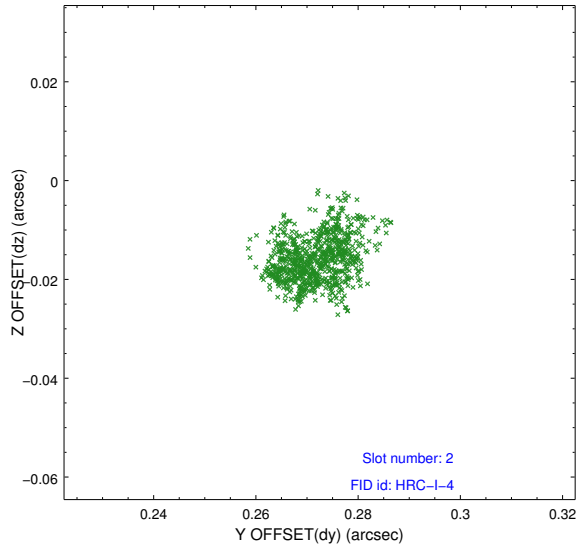
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1703251731396

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.