

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4297 - L2 Version 5
Chandra X-Ray Center

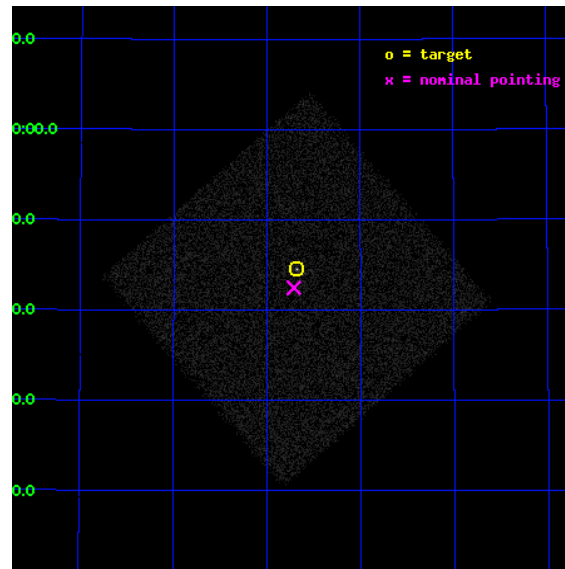
L2 Processing Date : Oct 23 2012

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

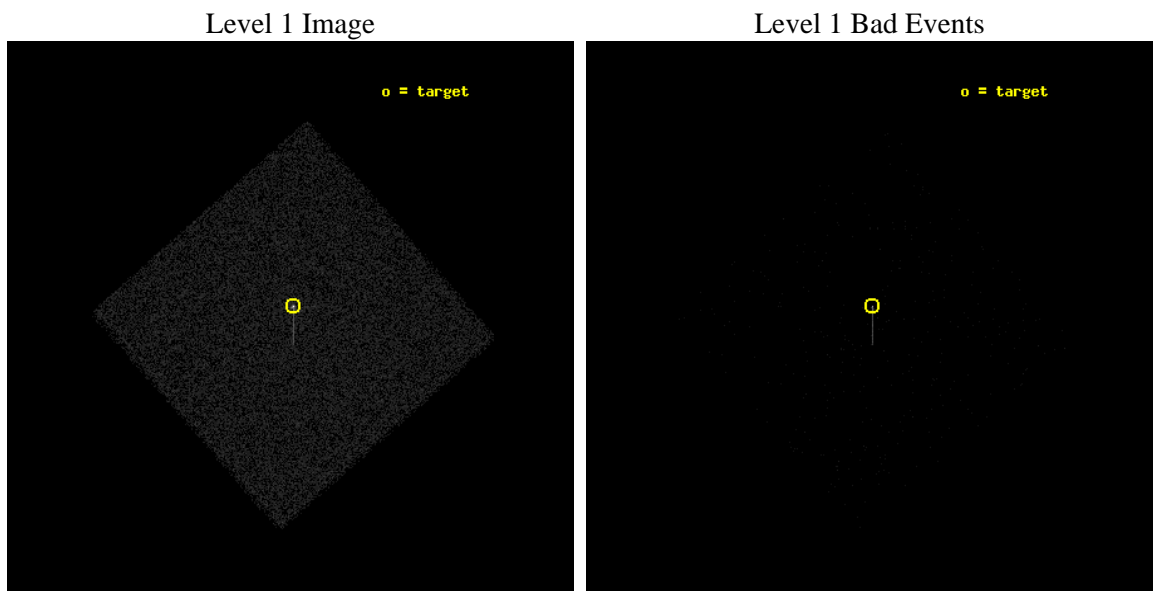
seq_num	290257	Sequence number
obs_id	4297	Observation id
title	AO4 CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-I GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.178151119	Nominal RA [deg]
dec_nom	45.708183853021	Nominal Dec [deg]
roll_nom	3.7149970092544	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1186.181299895	[s]
livetime	1179.5390752951	Ontime multiplied by DTCOR
l2events	38341	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	8.4.5	Processing system revision	ontime	1186.181299895	[s]
caldbver	4.5.2	 	l1events	69193	Number of level 1 events
date	2012-10-23T16:17:11	Date and time of file creation			
revision	5	Processing version of data			

2.1.3 Events

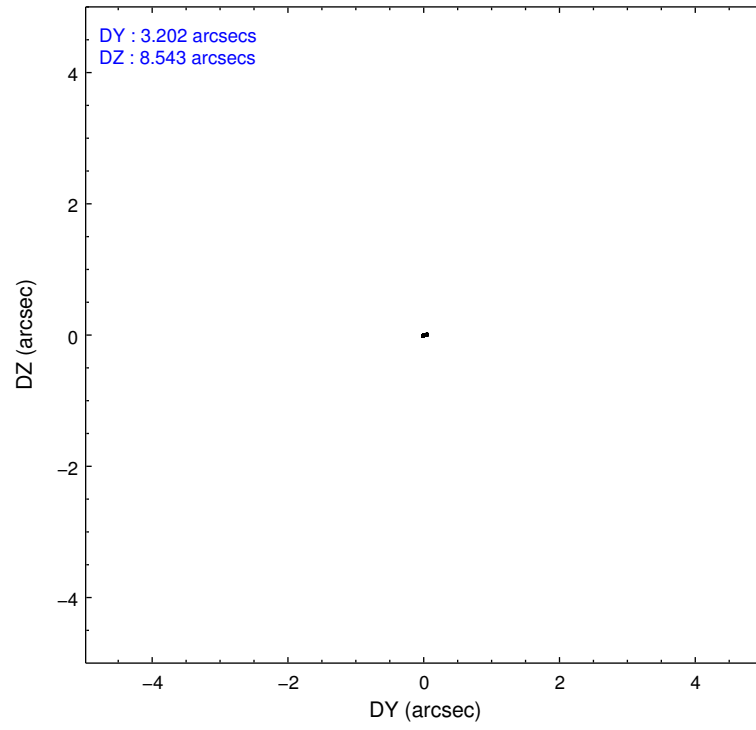
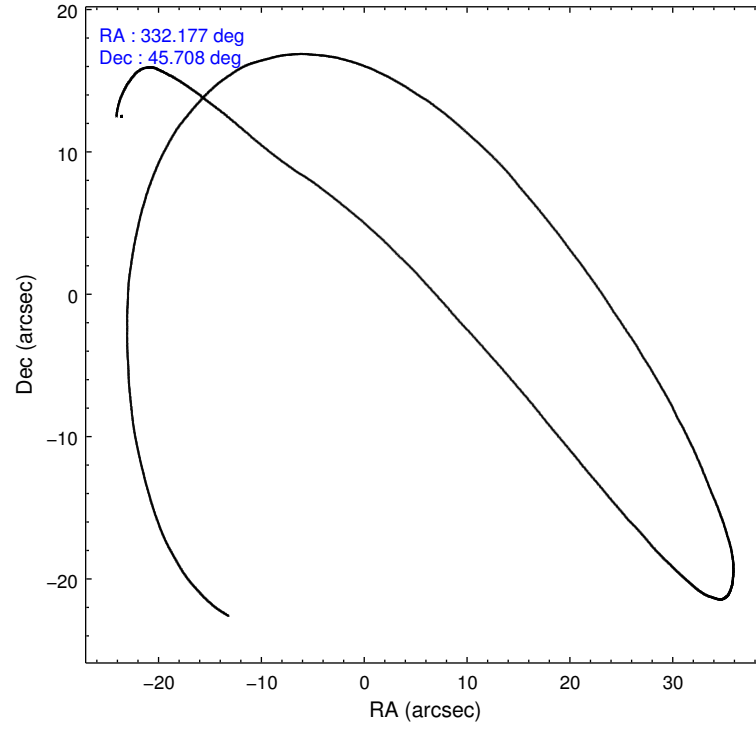
Level 1 Events

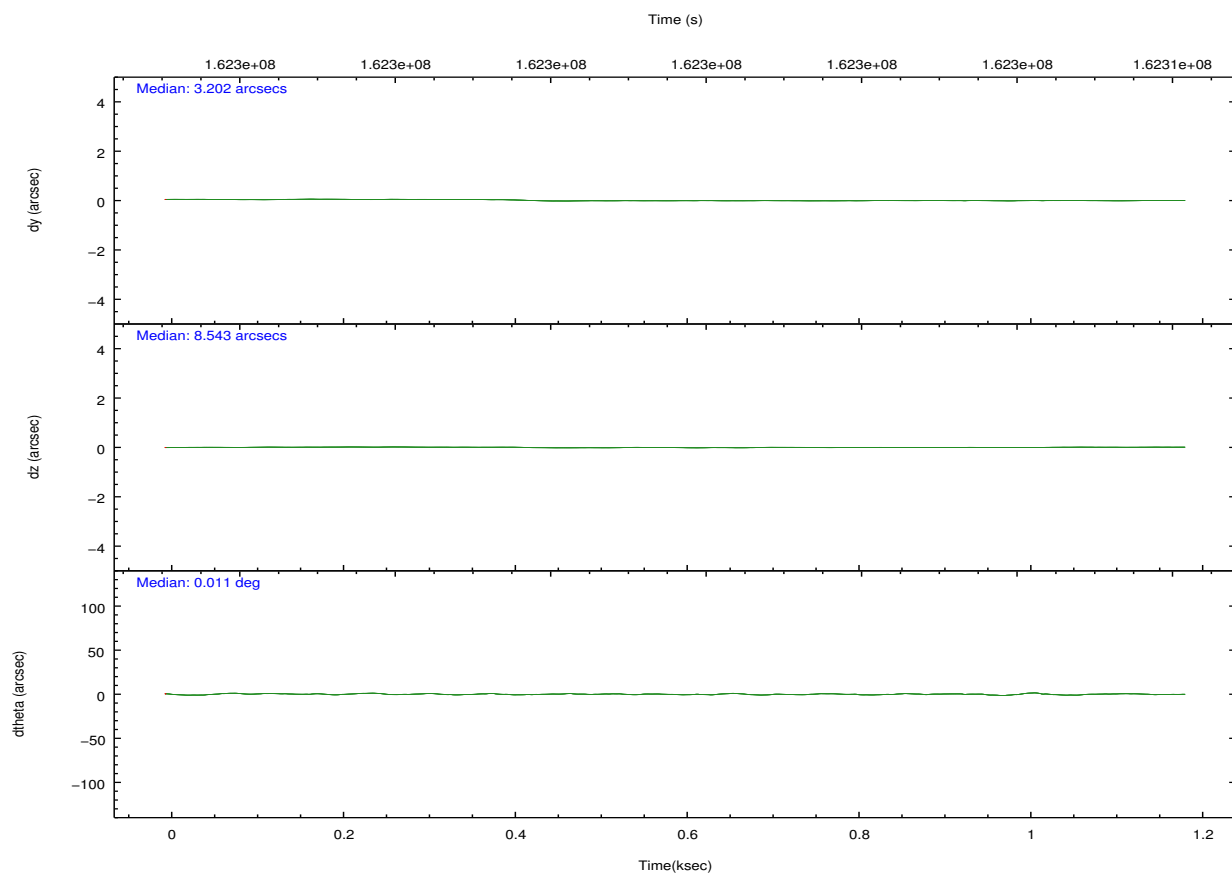
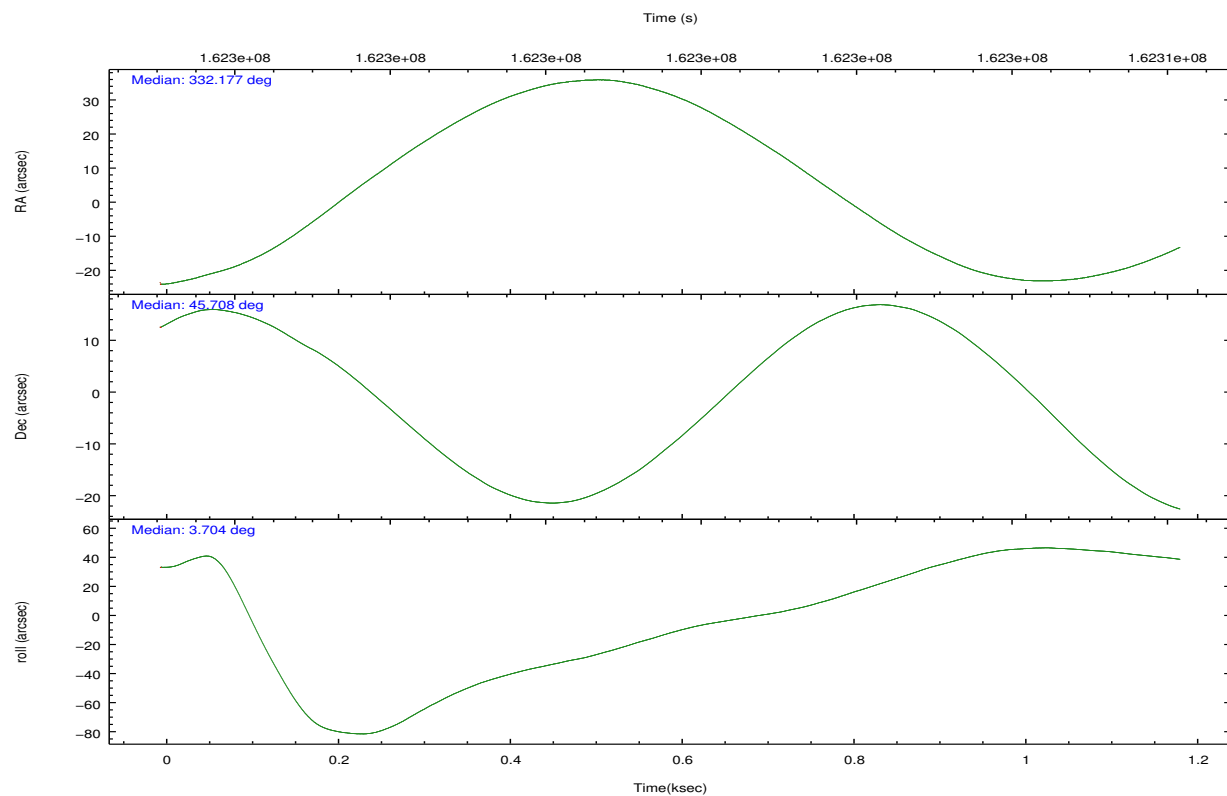
	segment 0
level 1 events	69193
rejected events	14786
rejected %	21%

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	332.147060	332.1781511190047			
[deg] Pointing Dec	45.692127	45.7081838530213			
[deg] Pointing Roll	3.833019	3.714997009254372			
[s] Window start time (MET)	161654464.184000	161654464.184000			
[s] Window stop time (MET)	165369664.184000	165369664.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	162304148.184000	162303771.41999			
Observation start date	2003-02-22T12:28:04	2003-02-22T12:22:51			
[s] Observation end time (MET)	162305148.184000	162305281.75755			
Observation end date	2003-02-22T12:44:44	2003-02-22T12:48:01			

2.3 Aspect



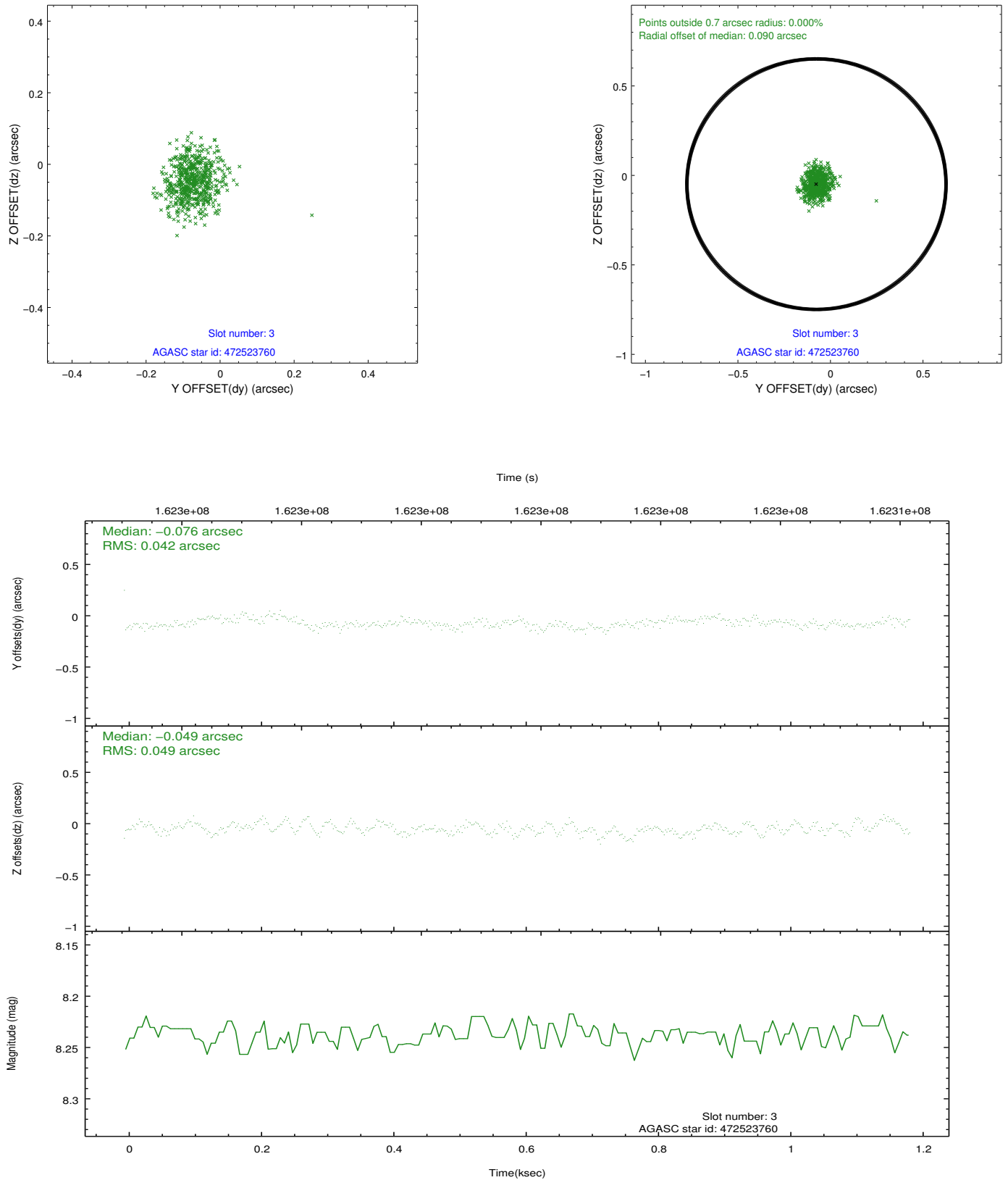


Slot Statistics

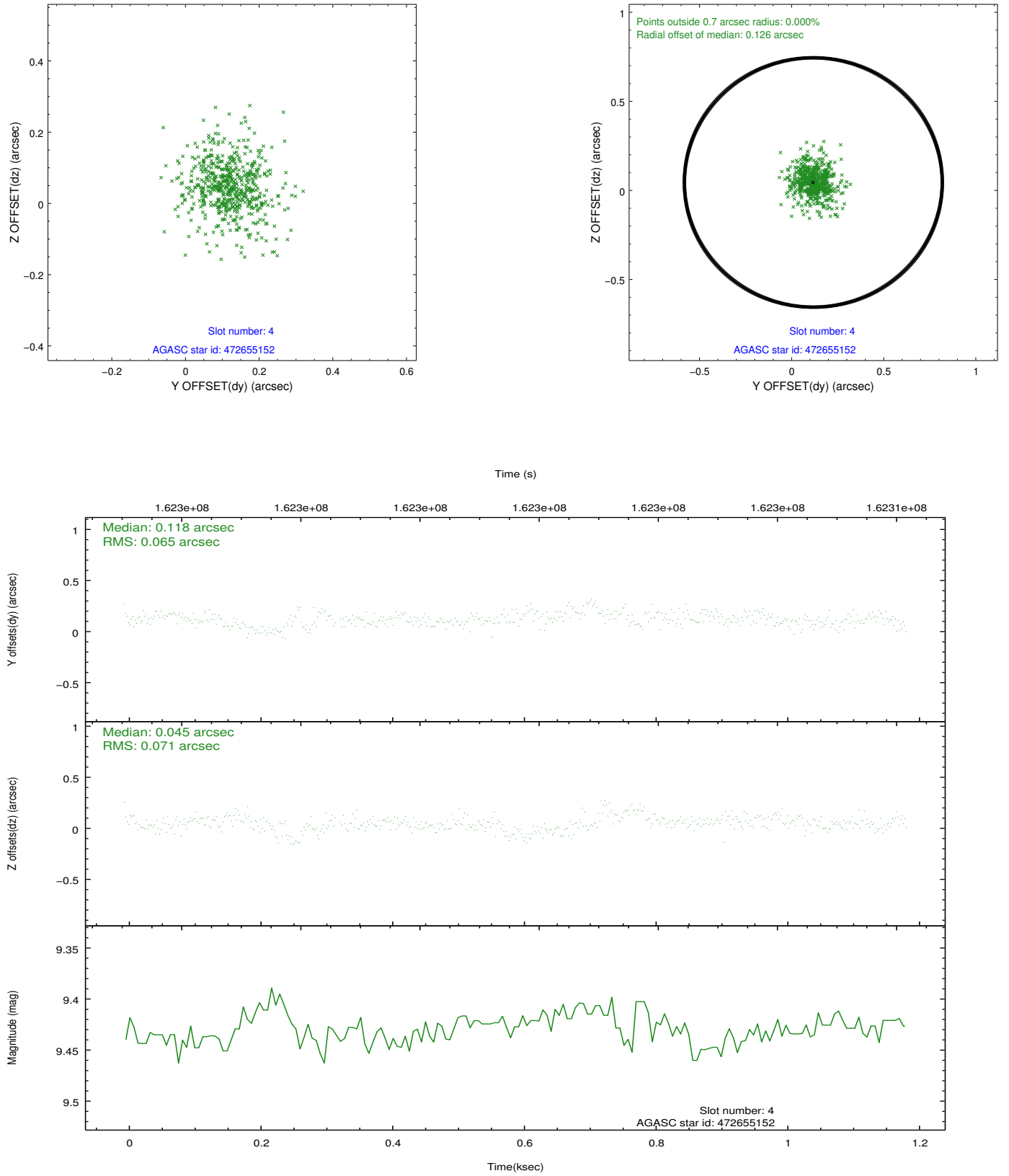
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.97	290	0.037	0.030	0.005	0.012	0.000000	0.000000	-758.71	-1296.42
1	FID	HRC-I-2	7.01	290	0.095	-0.051	0.008	0.014	0.000000	0.000000	851.37	-1302.60
2	FID	HRC-I-4	7.01	290	-0.015	-0.073	0.006	0.011	0.000000	0.000000	1287.05	1001.08
3	GUIDE	472523760	8.24	580	-0.076	-0.049	0.068	0.108	331.645363	45.403260	-1332.64	-950.72
4	GUIDE	472655152	9.43	577	0.118	0.045	0.100	0.181	332.504239	45.862991	934.23	552.90
5	GUIDE	472659832	9.47	574	0.037	0.077	0.090	0.145	332.780399	46.098139	1678.77	1359.01
6	GUIDE	472527720	6.99	580	-0.084	-0.058	0.062	0.094	331.460205	45.112509	-1875.15	-1957.52
7	BAD	472652872	10.13	490	-0.140	0.135	0.360	30.249	332.255928	45.019274	112.17	-2445.72

2.4 Star Slots

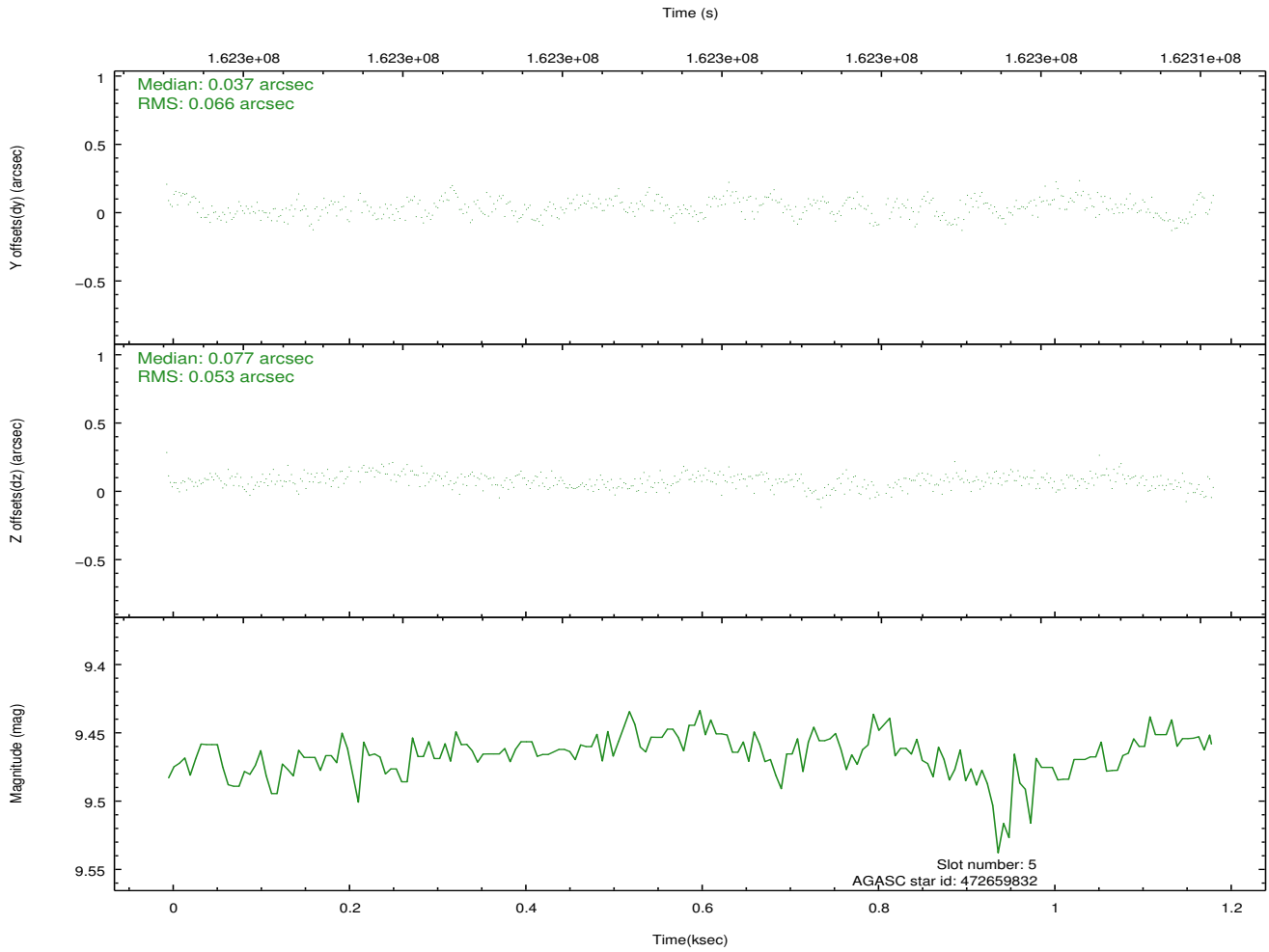
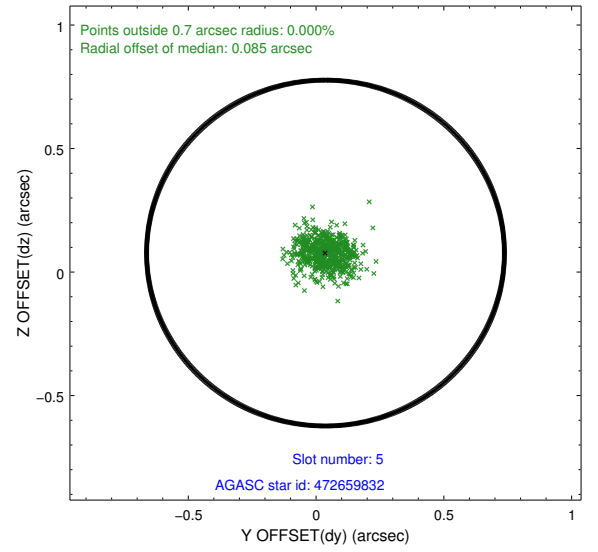
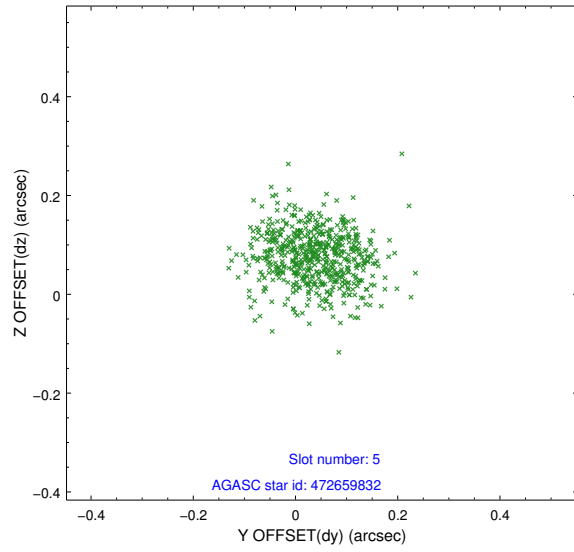
2.4.1 Slot 3



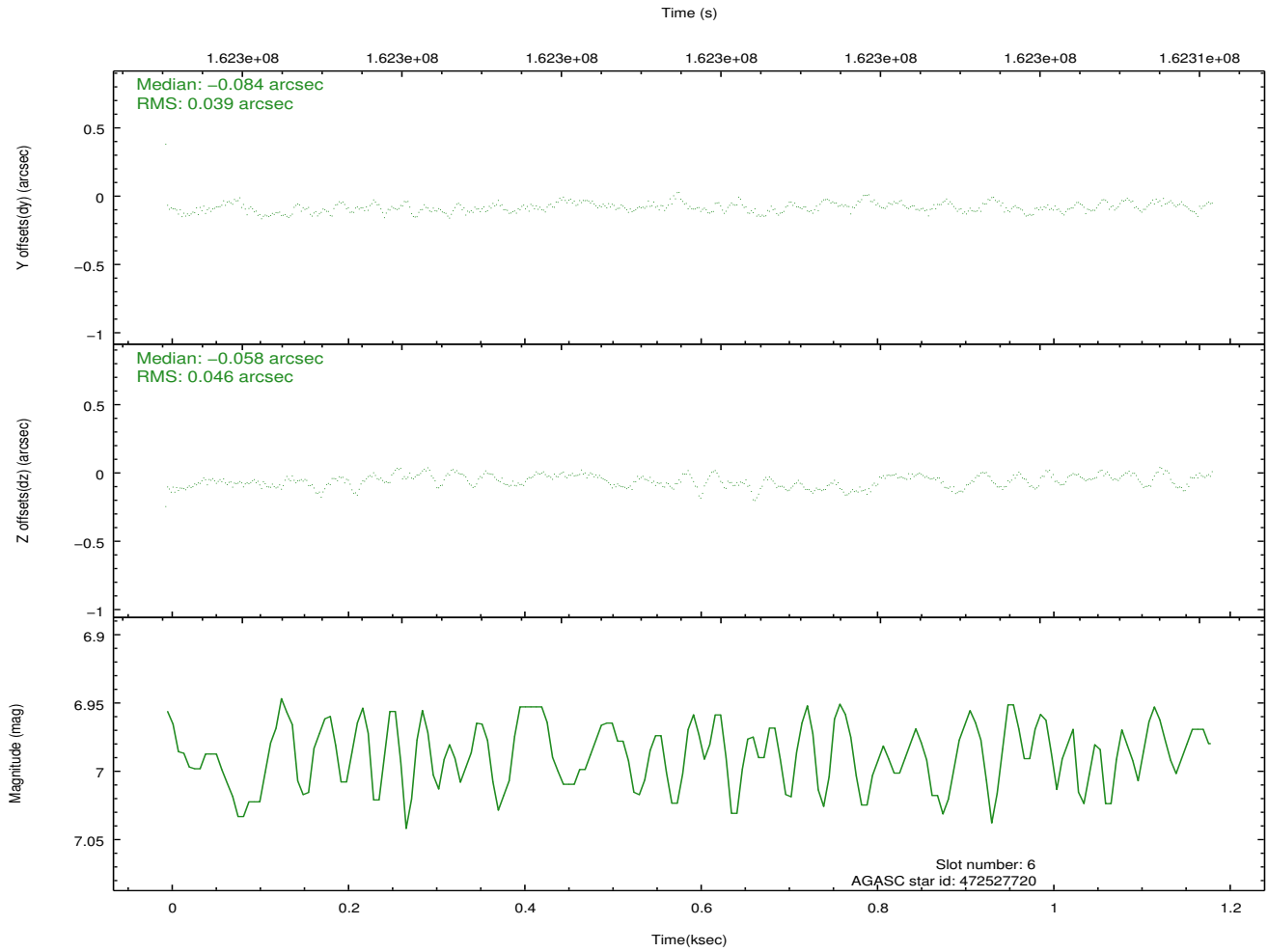
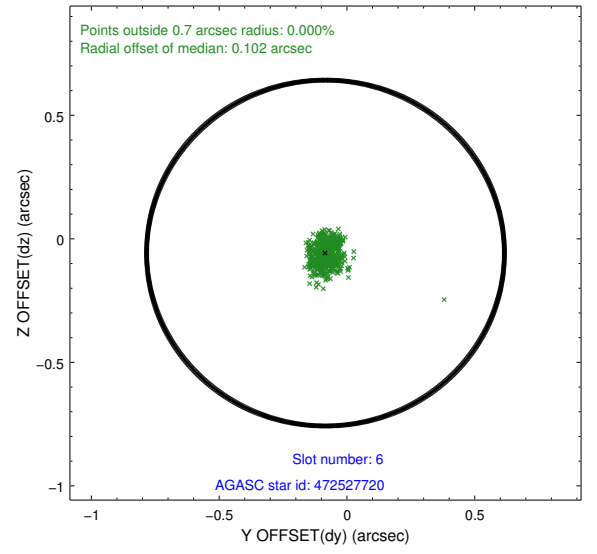
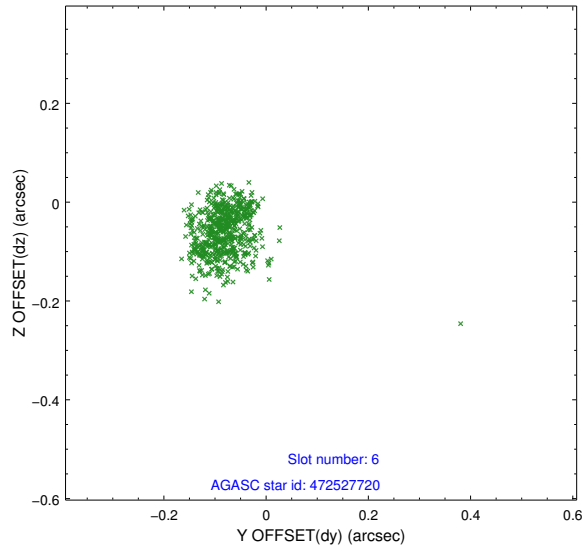
2.4.2 Slot 4



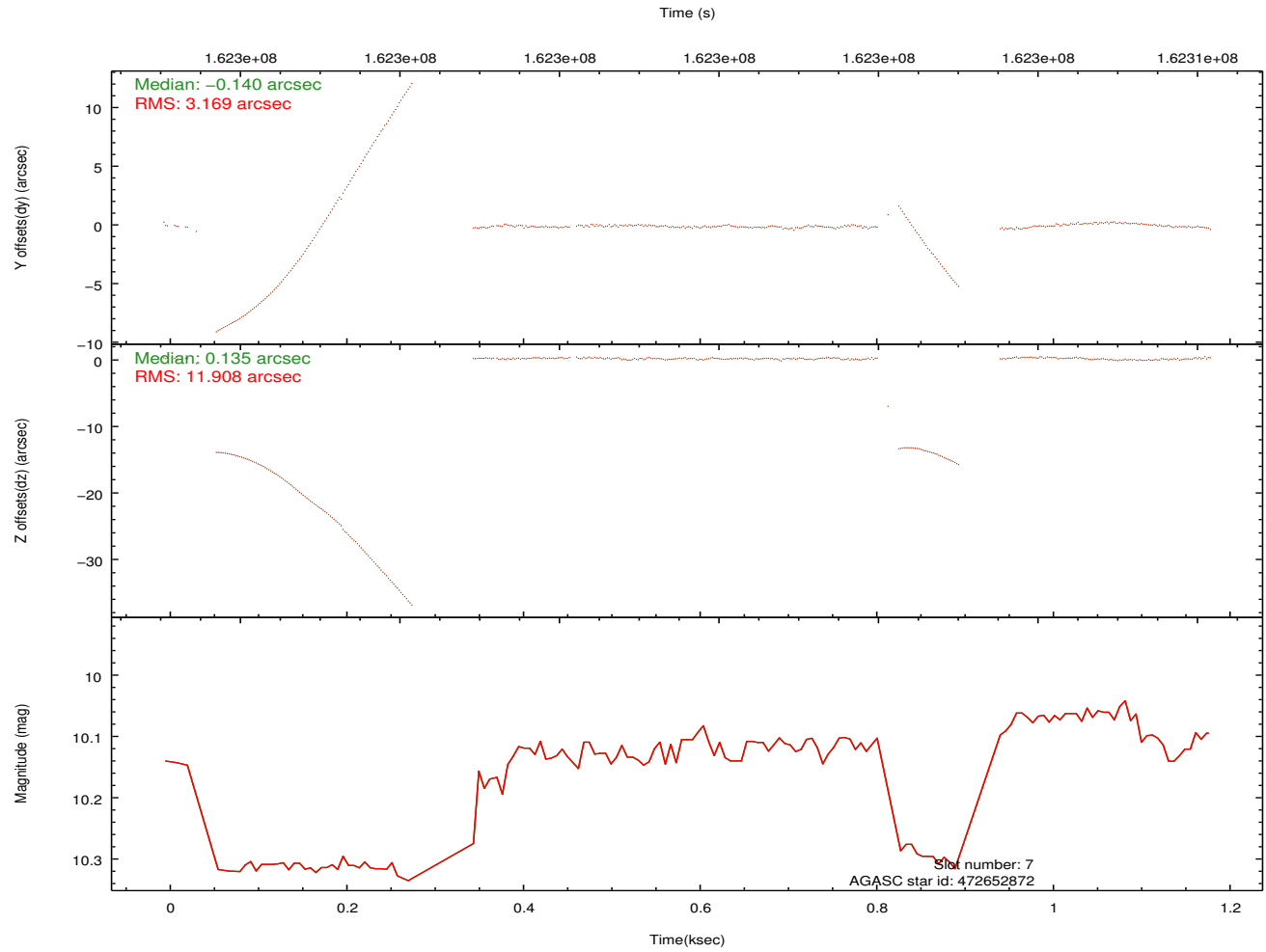
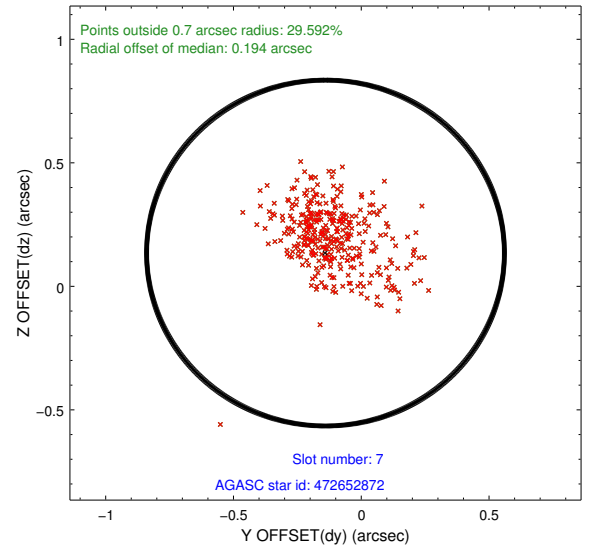
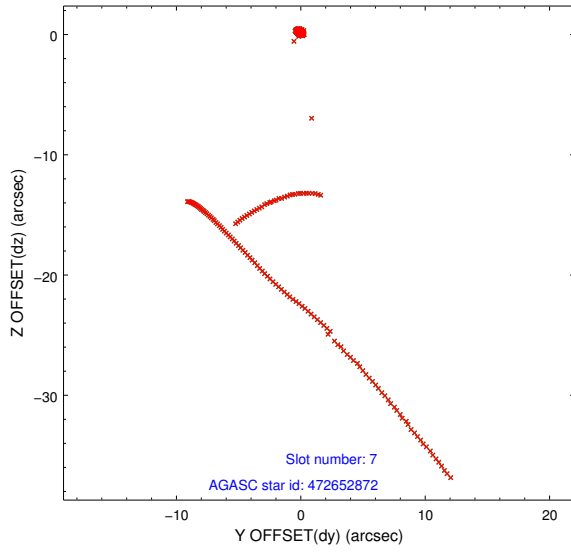
2.4.3 Slot 5



2.4.4 Slot 6

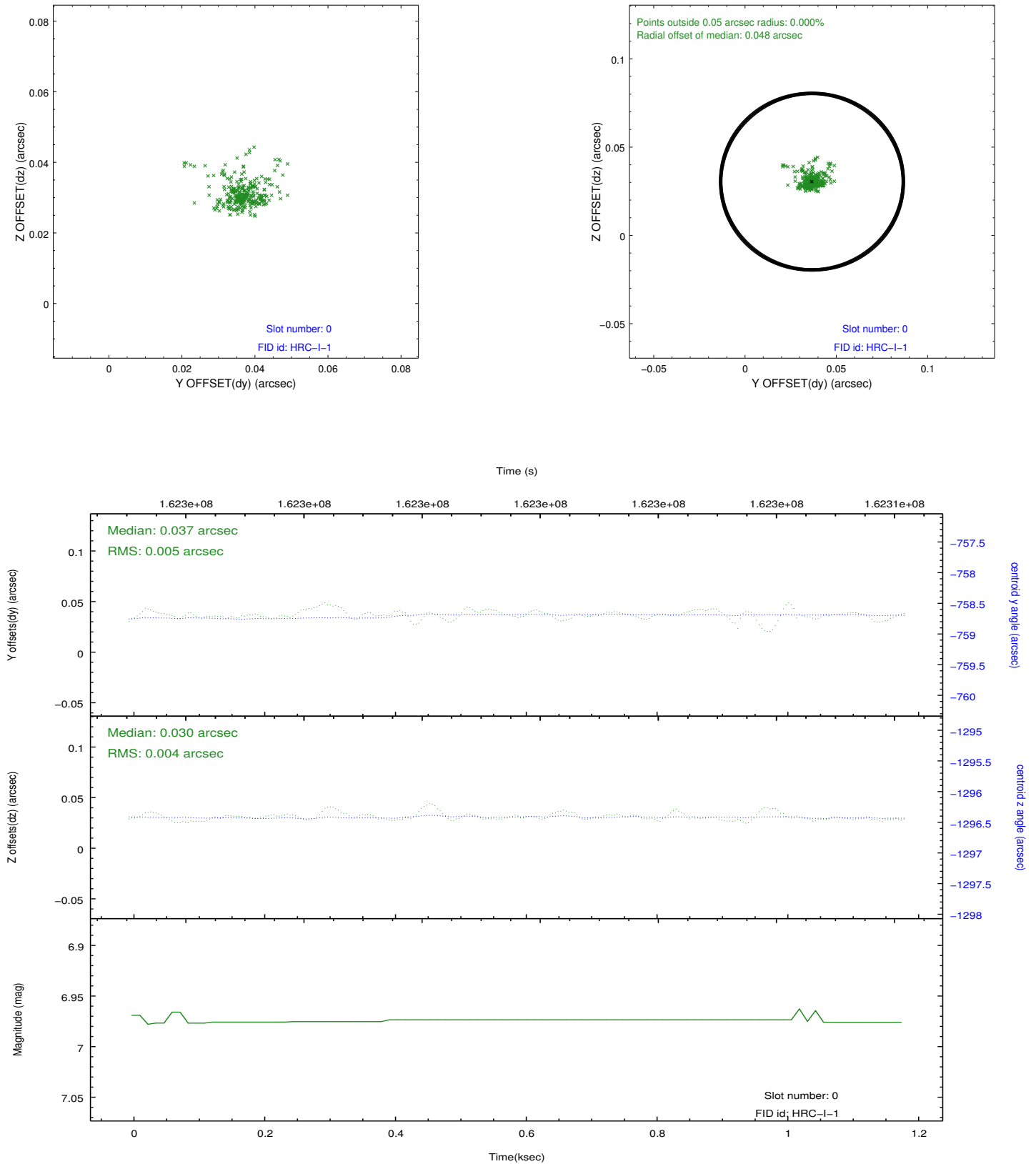


2.4.5 Slot 7

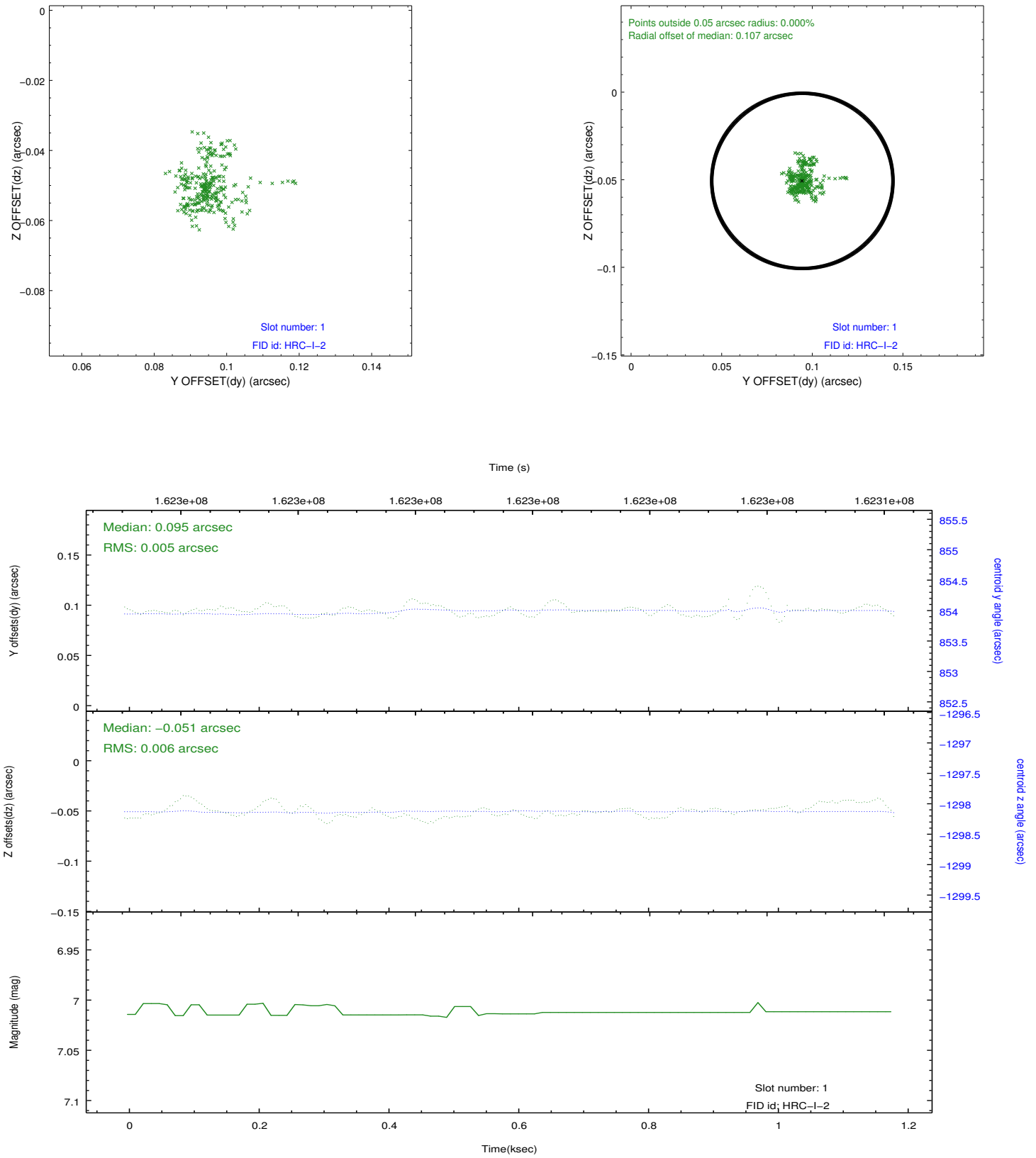


2.5 FID Slots

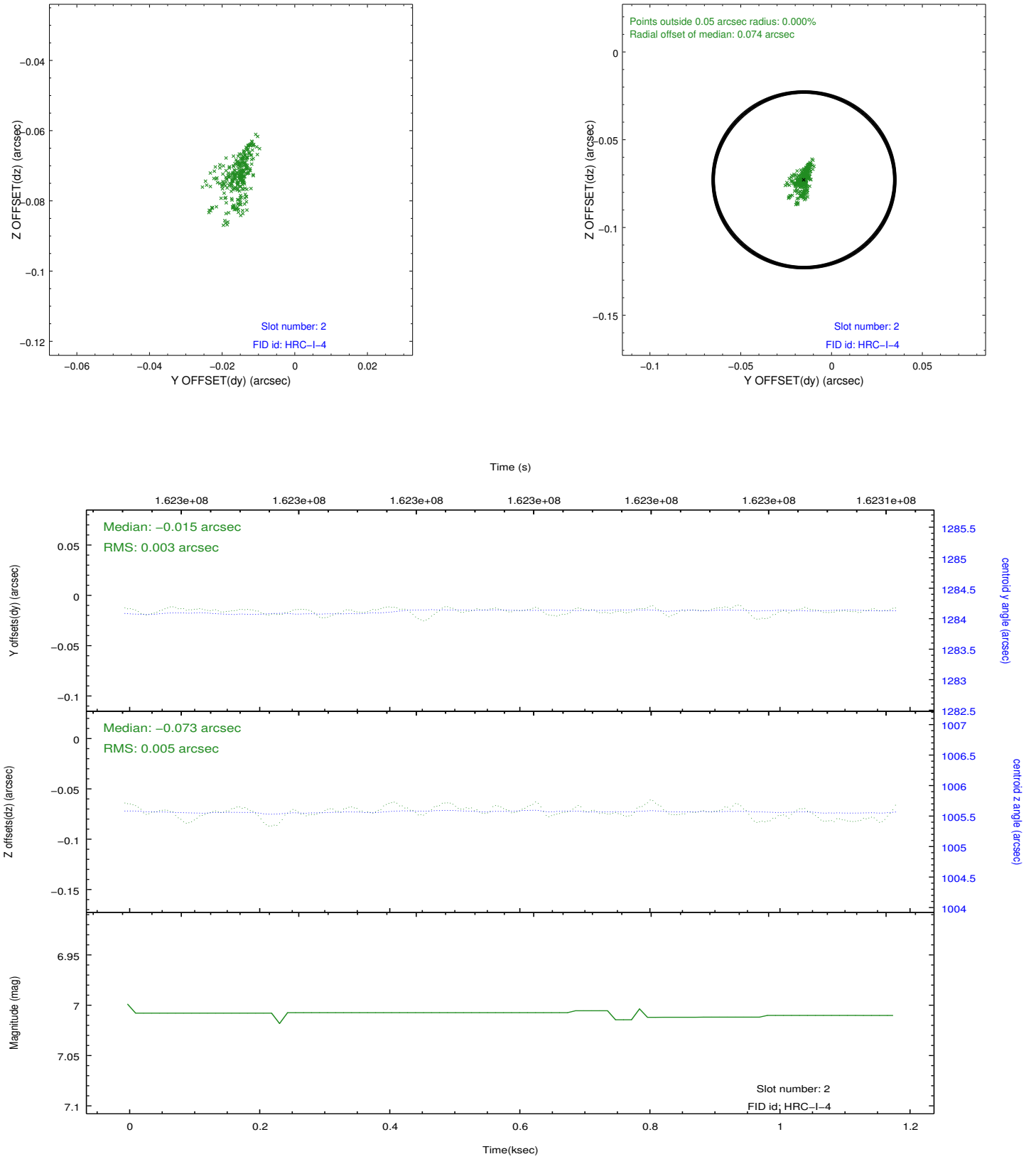
2.5.1 Slot 0



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)	2012.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.186

A.2 Comments

The guide star in slot 7 was automatically excluded from the processing due to poor data quality. The aspect solution is not expected to be degraded by removing one star from the solution.

=====

Window constraint met.