V&V Reference Report
L2 ASCDS Version : 7.6.10

Observation 996 - L2 Version 4
### Chandra X-Ray Center

L2 Processing Date : Nov 20 2007

Contents

1 Front

seq_num	290077
obs_id	996
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC
observer	Dr. CXC Calibration
object	ARLAC,HRC-I,AO2A
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.1701517361
dec_nom	45.738013875947
roll_nom	298.55663213533
revision	4
ontime	870.48128327727
livetime	850.54807885257
l2events	116953

2 OBI

2.1 OBI

2.1.1 Images
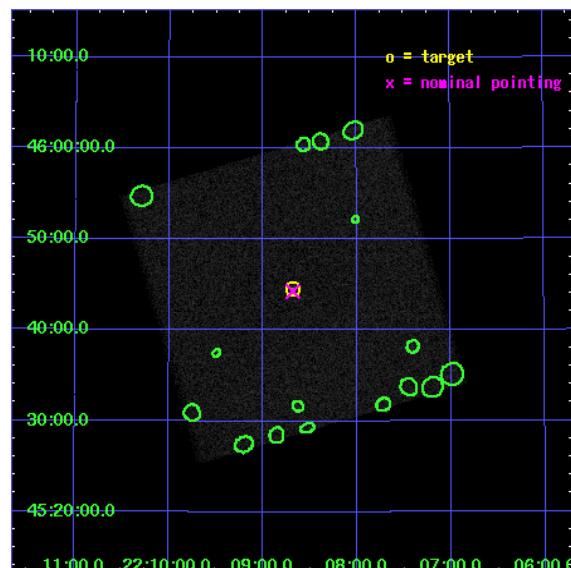
Level 1 Image   Level 1 Bad Events
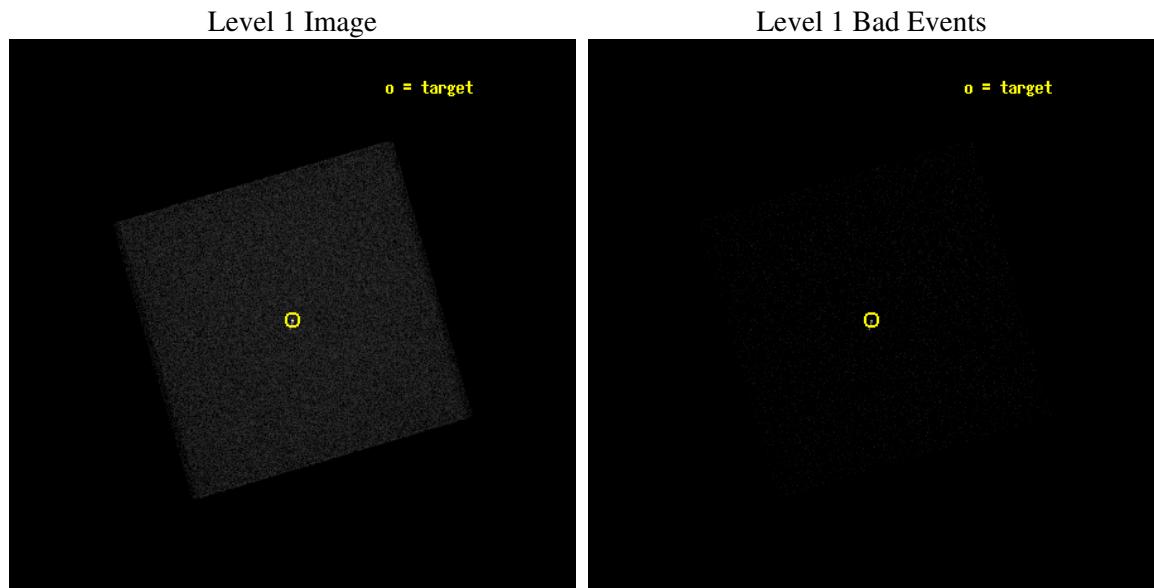
2.1.2 Parameters

obi_num	0
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-21T03:21:31
revision	4

sched_exp_time	1000.000000
ontime	870.48128327727
l1events	177595

2.1.3 Events

Level 1 Events

	segment 0
level 1 events	177595
rejected events	31268
rejected %	17%

2.2   Compared Parameters

| Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	332.137008	332.1701517360978
Pointing Dec	45.751761	45.73801387594729
Pointing Roll	298.675606	298.5566321353292
SIM focus pos (mm)	-1.040293	-1.038866356238299
SIM defocus (mm)	0	0.001426264420575141
SIM translation stage pos (mm)	126.985494	126.9854943052878
SIM translation stage offset (mm)	0	-5.413686238853188e-06
Observation start time	93026911.184000	93025898.48742899
Observation start date	2000-12-12T16:47:27	2000-12-12T16:31:38
Observation end time	93027911.184000	93028044.837511
Observation end date	2000-12-12T17:04:07	2000-12-12T17:07:24

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3   Aspect

7
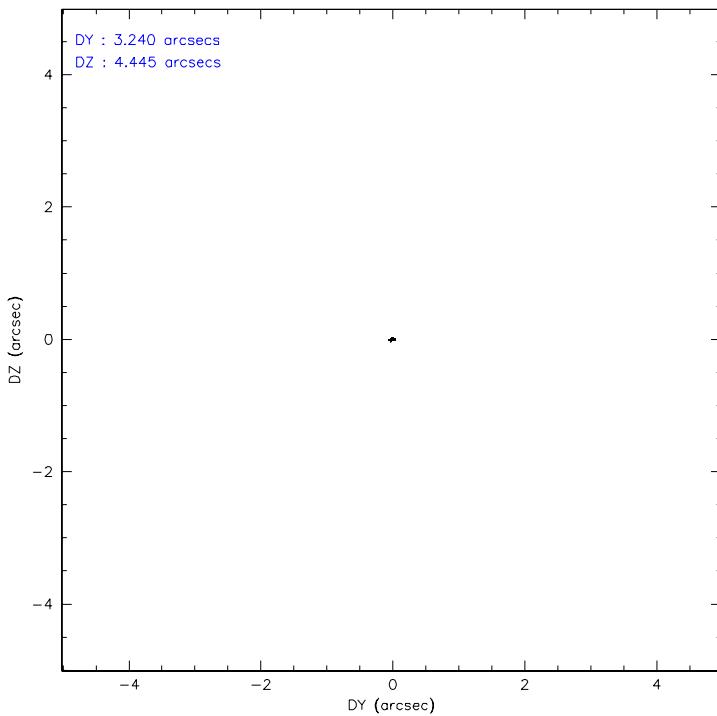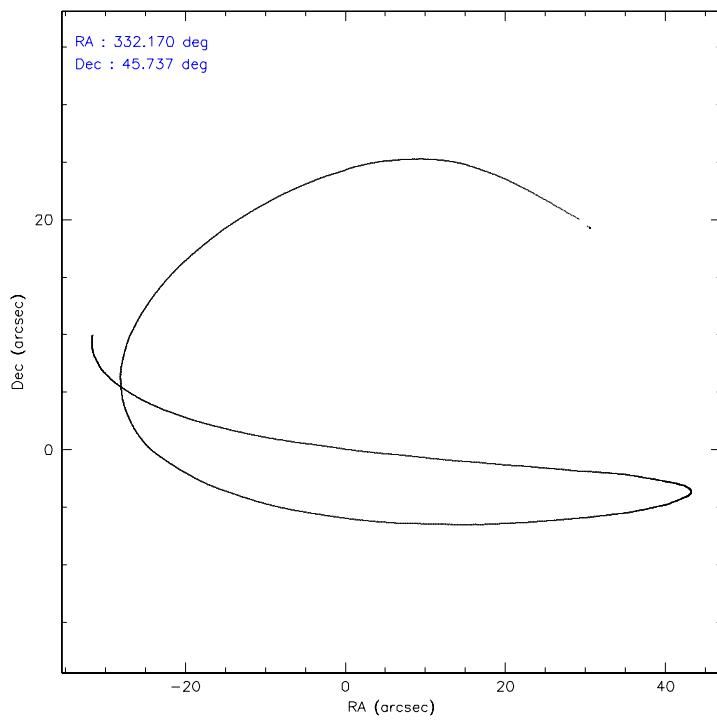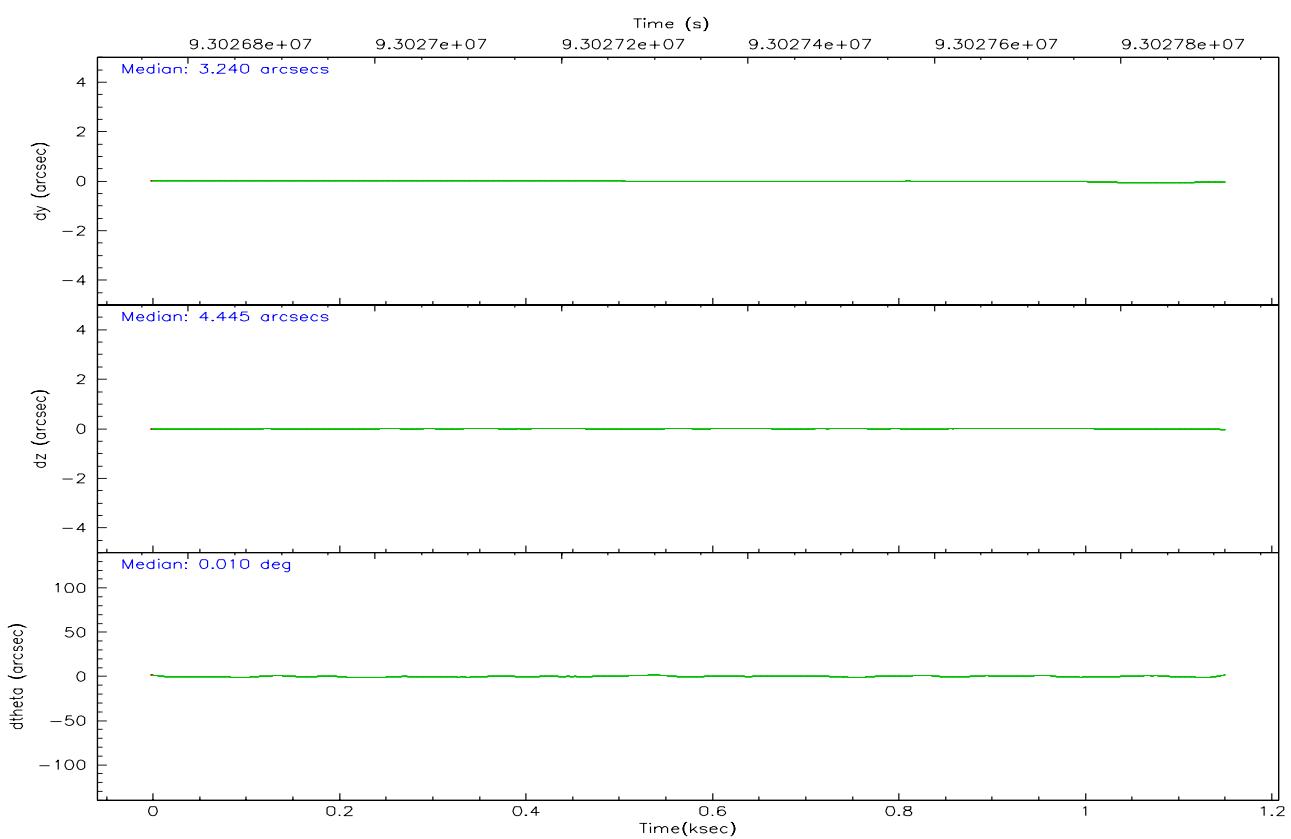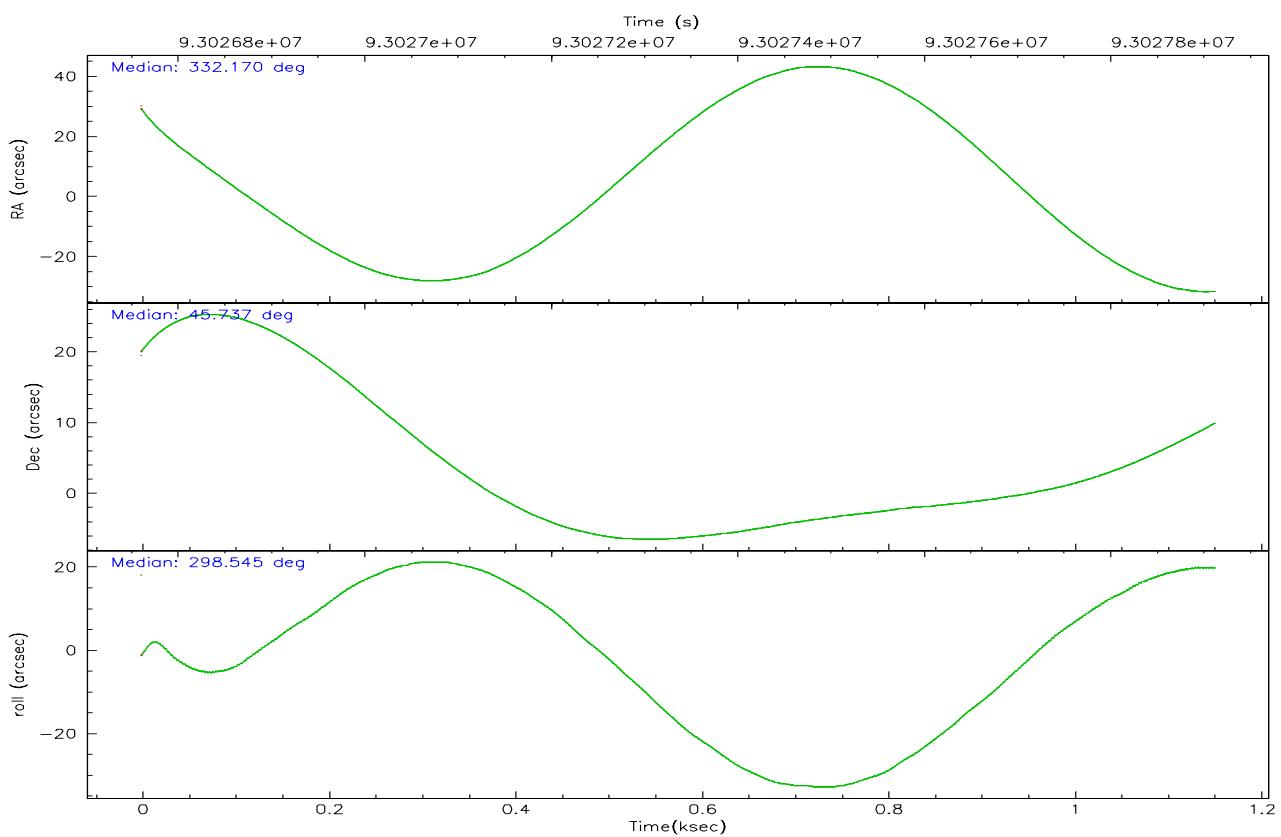
Slot Statistics

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	282	0.045	0.034	0.006	0.009	0.000000	0.000000	-758.71	-1292.22
1	FID	HRC-I-2	7.01	282	0.087	-0.061	0.007	0.010	0.000000	0.000000	851.28	-1298.50
2	FID	HRC-I-4	6.99	282	-0.016	-0.064	0.005	0.008	0.000000	0.000000	1287.09	1005.20
3	GUIDE	472525528	6.63	563	-0.046	0.046	0.073	0.122	331.551102	45.248694	872.29	-2169.30
4	GUIDE	472523760	8.23	563	-0.053	-0.085	0.054	0.093	331.645363	45.403260	503.21	-1694.53
5	GUIDE	472665256	9.02	563	-0.059	-0.100	0.092	0.154	332.808125	46.195041	-603.09	2232.95
6	GUIDE	472659832	9.46	563	0.065	0.111	0.098	0.160	332.780399	46.098139	-330.13	2014.38
7	GUIDE	472654568	9.44	562	0.091	0.047	0.108	0.170	332.194449	45.063576	2243.63	-1056.86

## 2.4 Star Slots

2.4.1 Slot 3
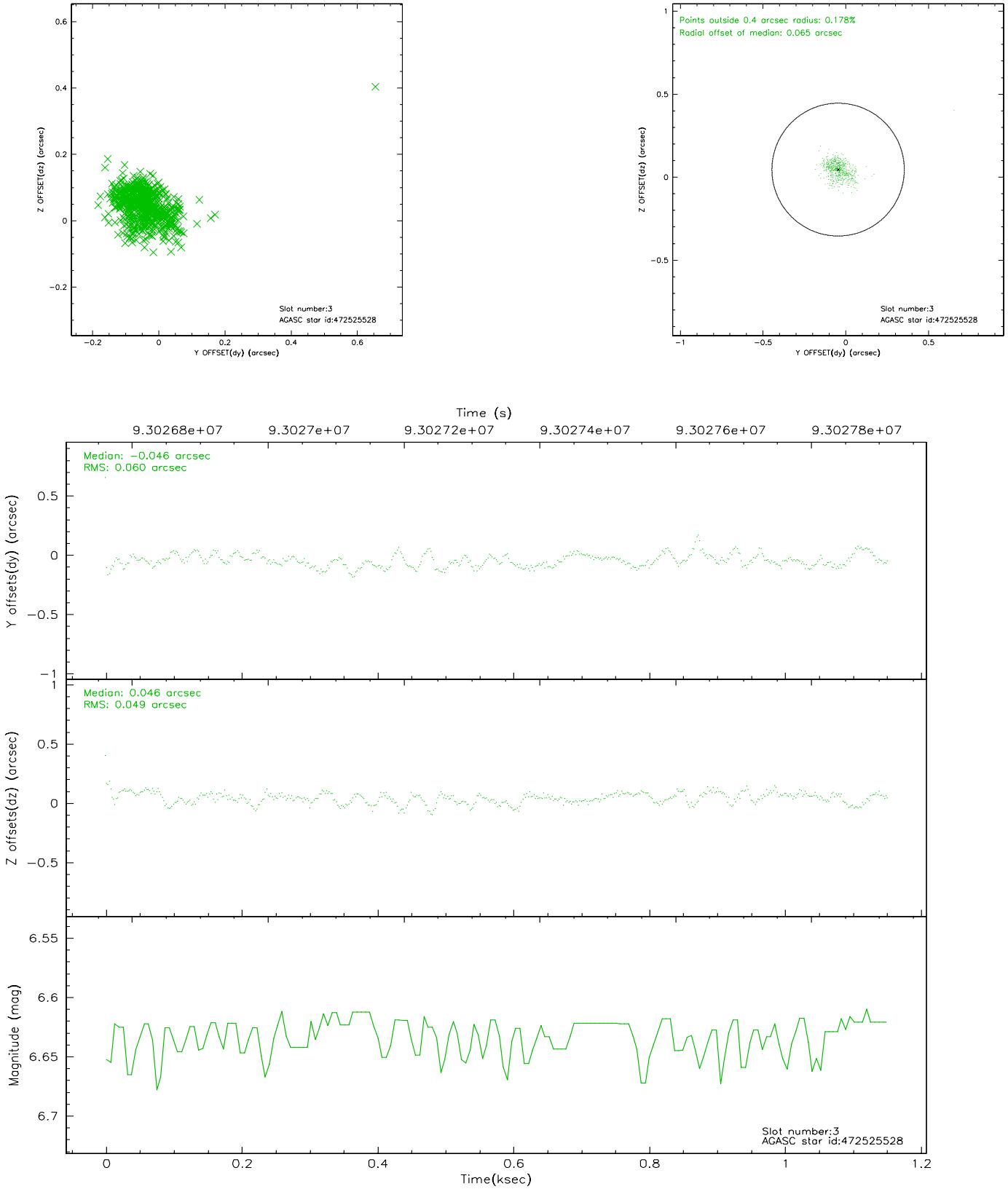
2.4.2 Slot 4
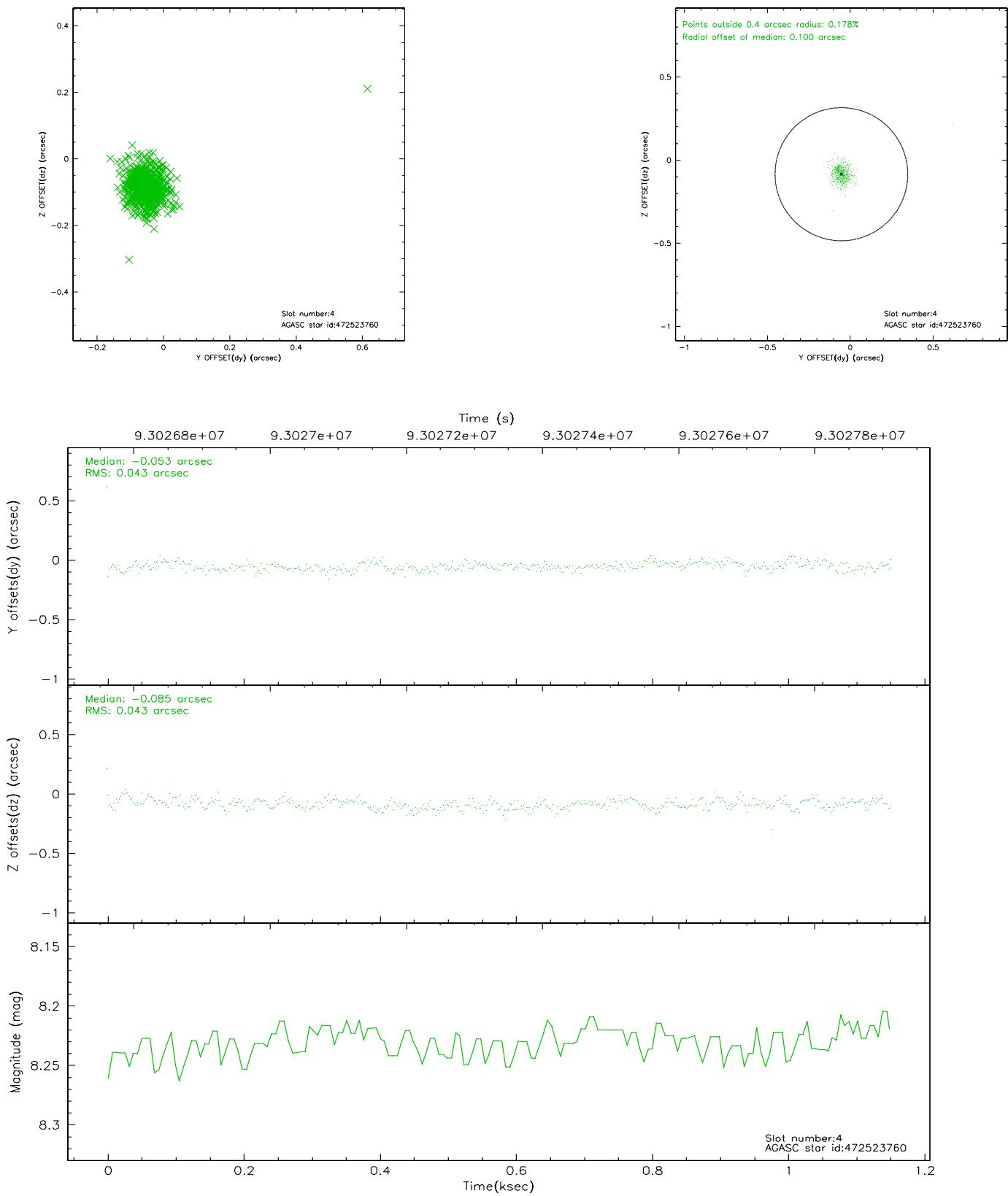
2.4.3　Slot 5
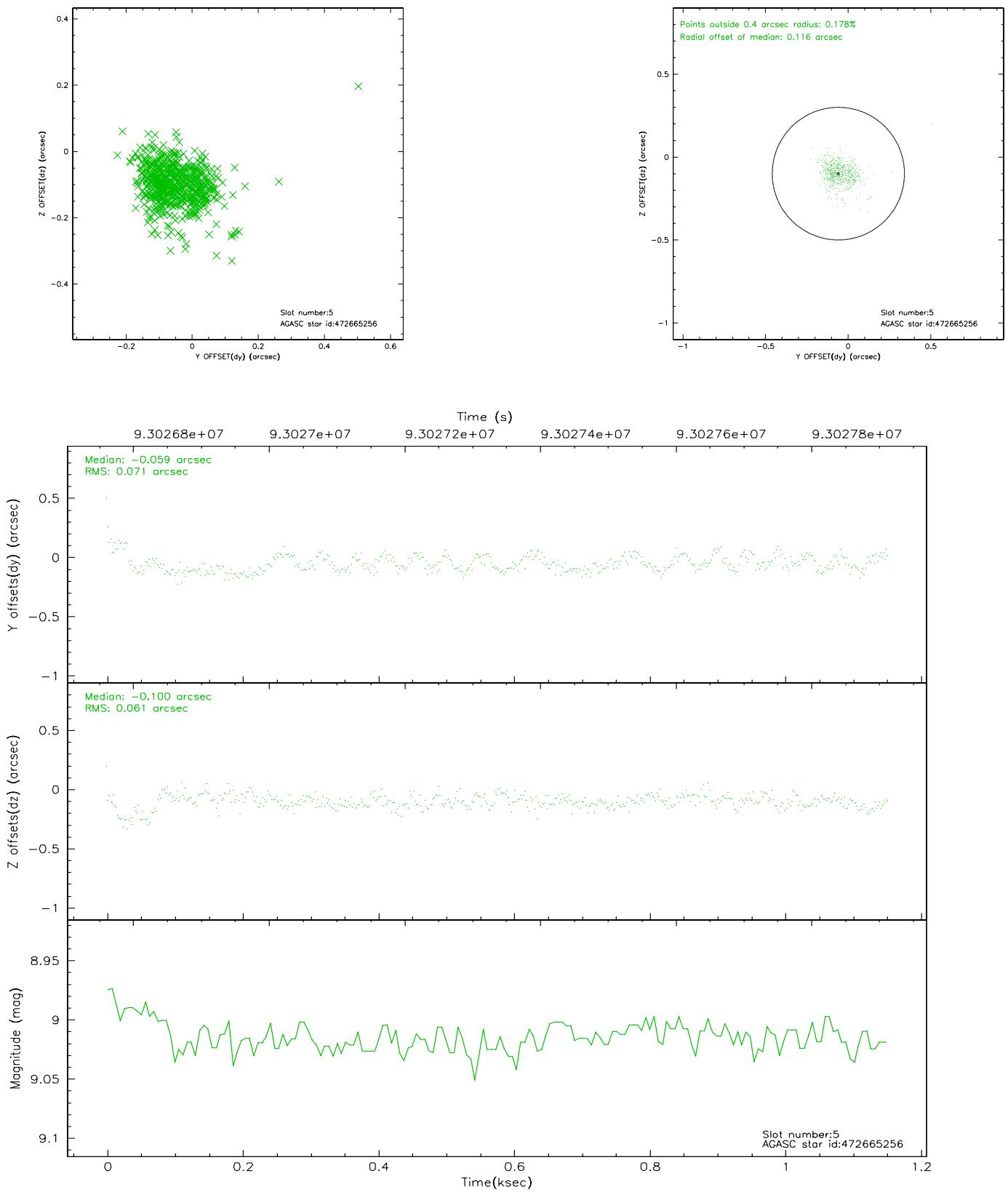
2.4.4   Slot 6
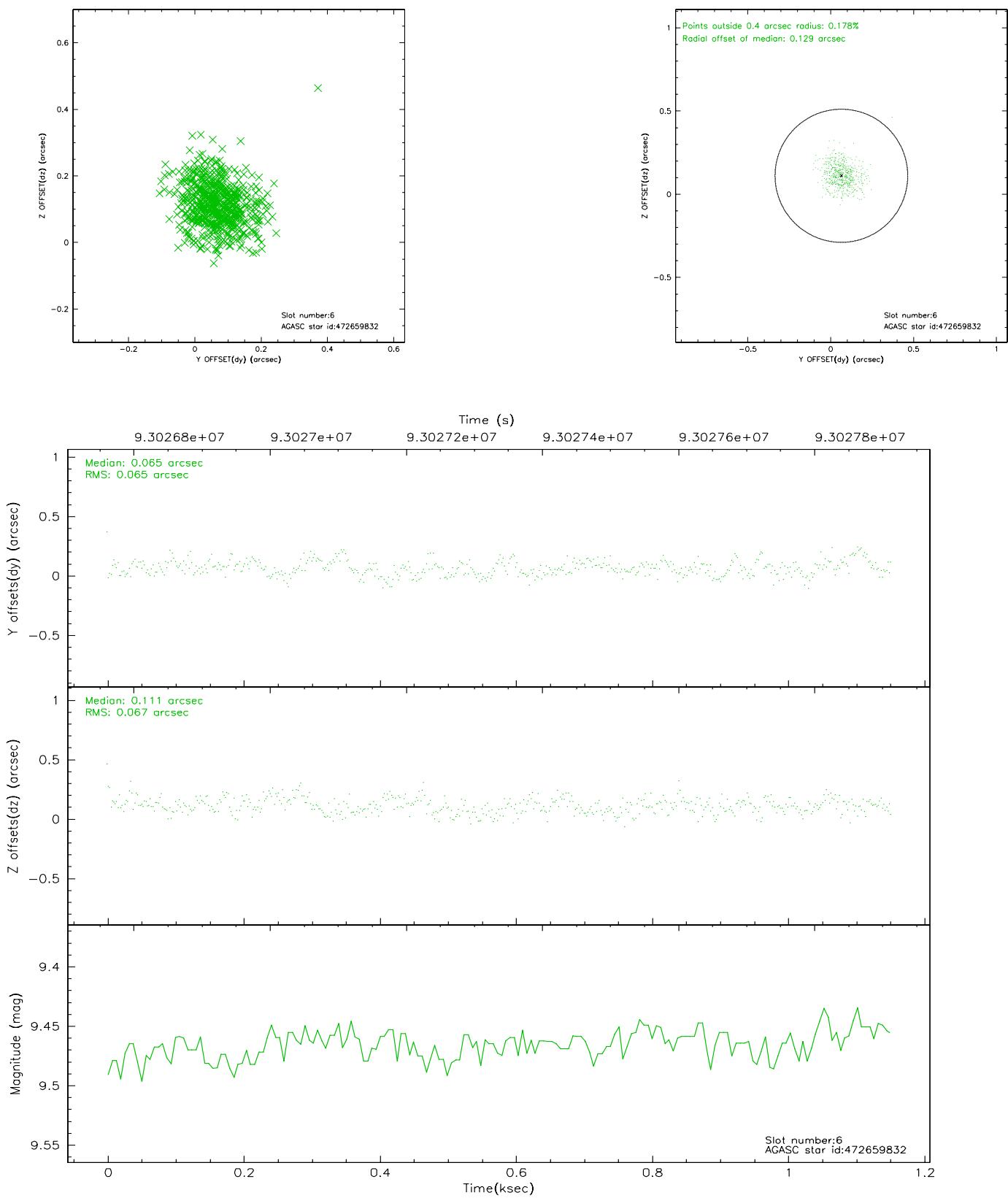
2.4.5　Slot 7
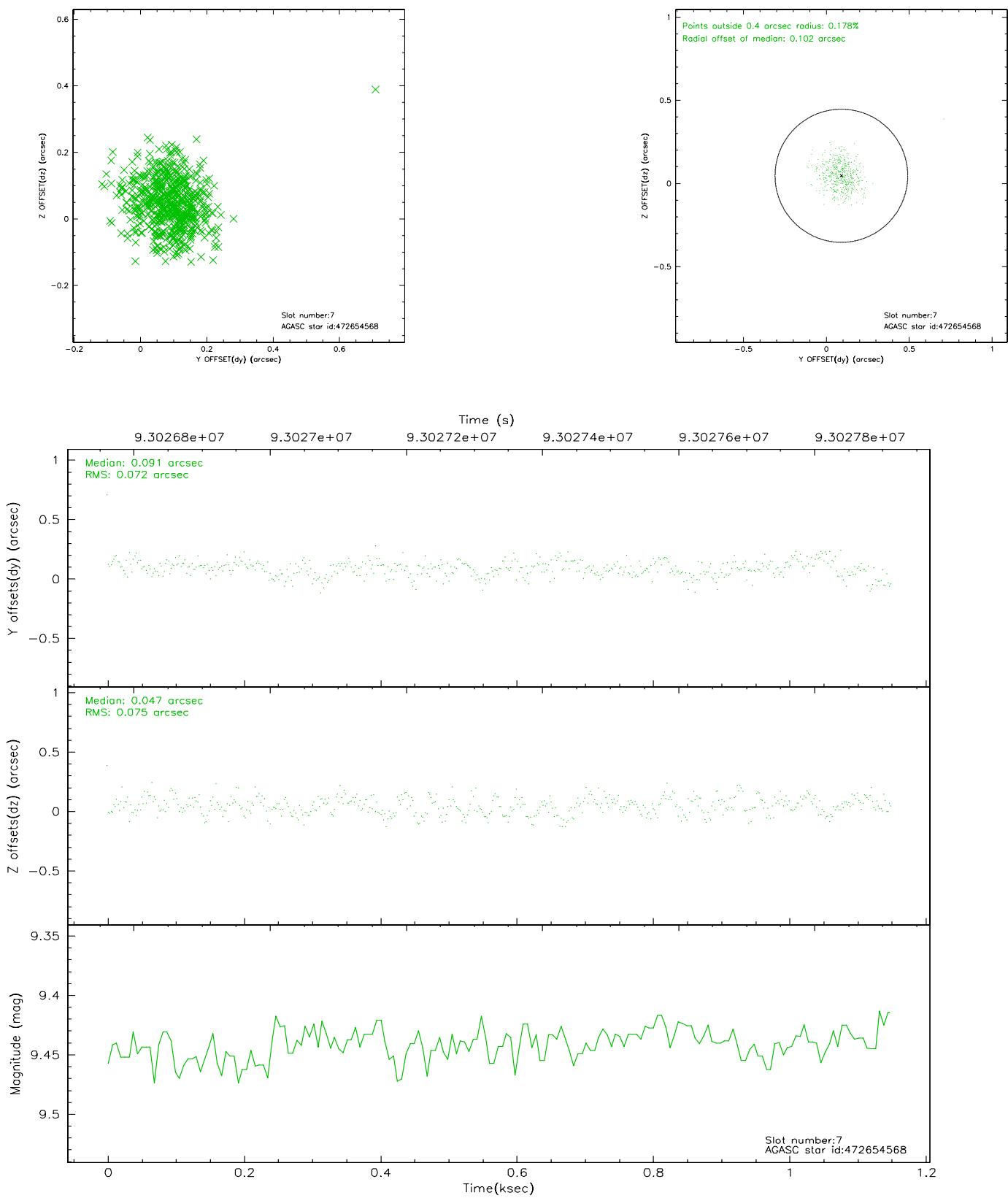
2.5 FID Slots

2.5.1 Slot 0
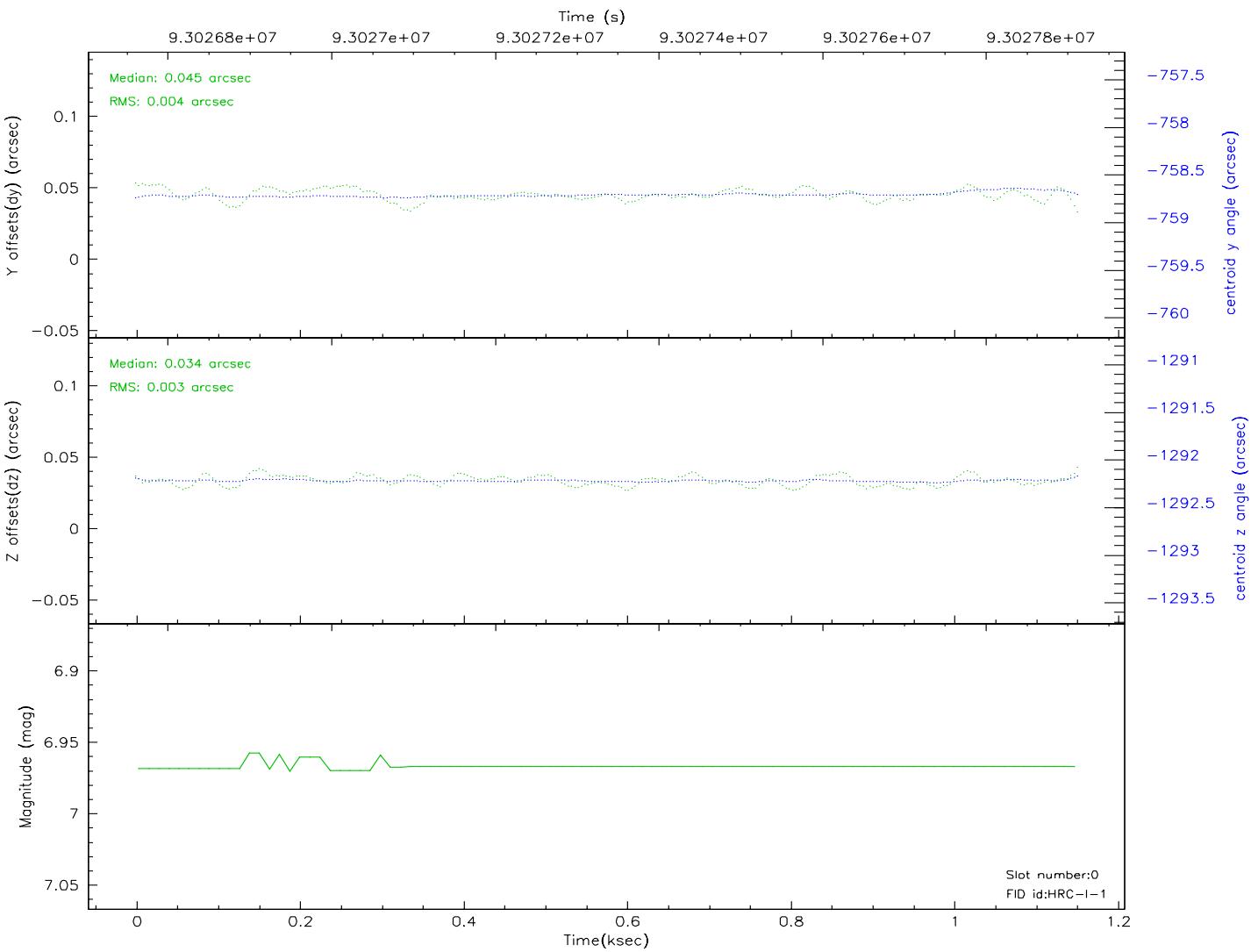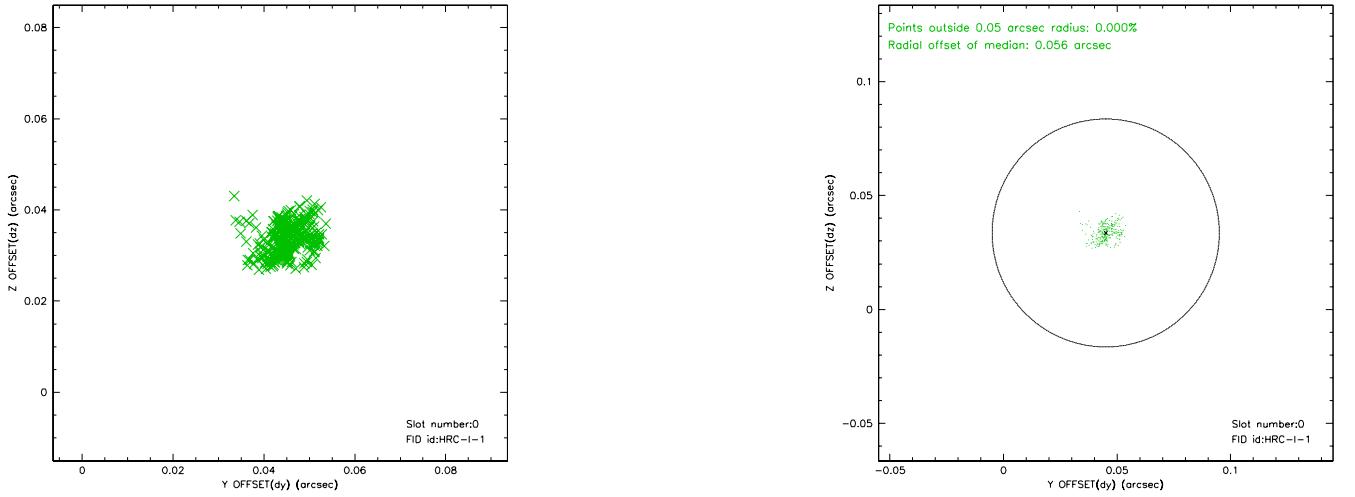
2.5.2 Slot 1
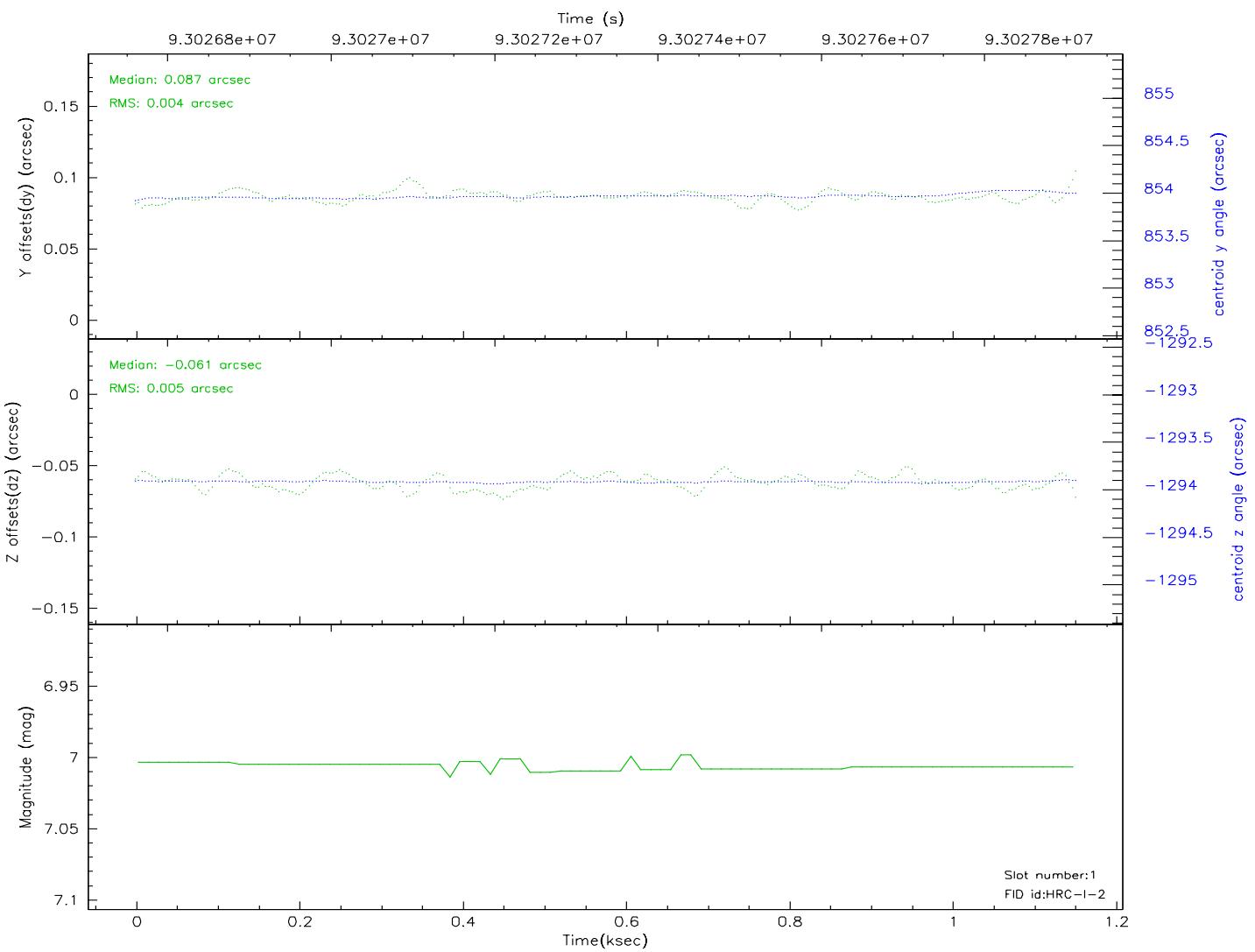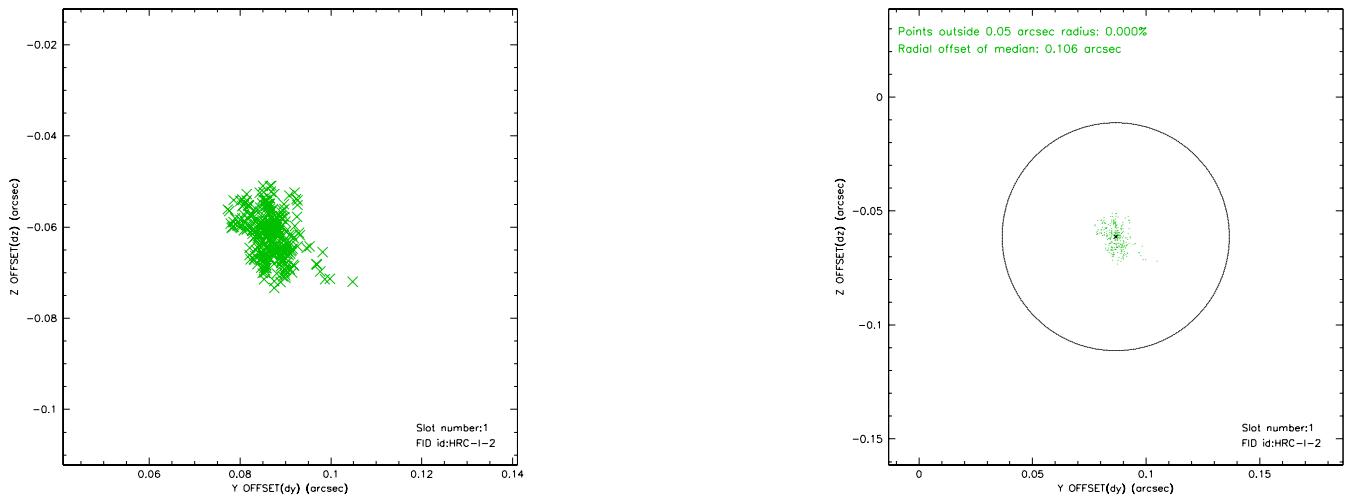
2.5.3 Slot 2

3   Point Sources

18.92 arcmin   17.71 arcmin   16.15 arcmin   15.15 arcmin
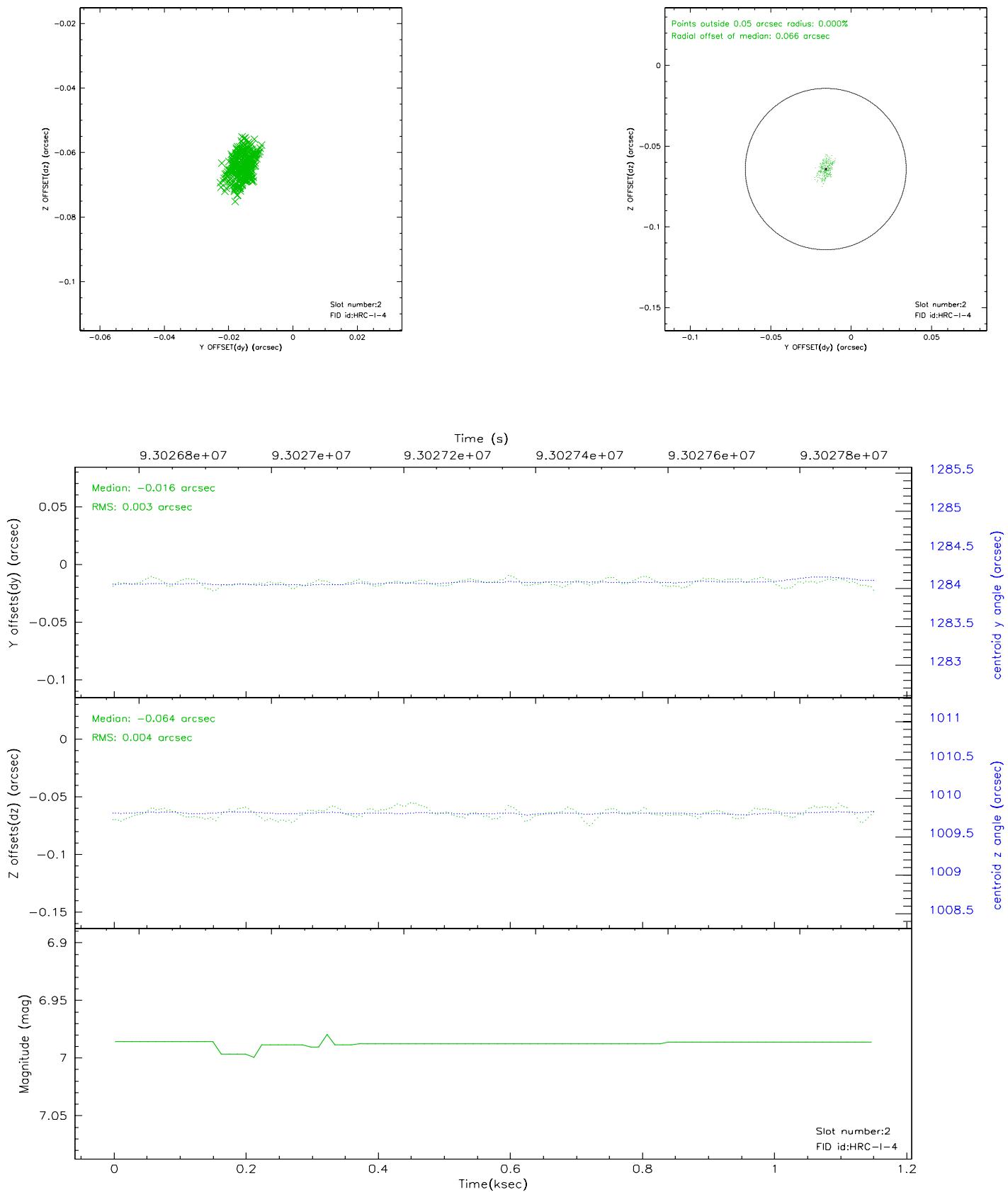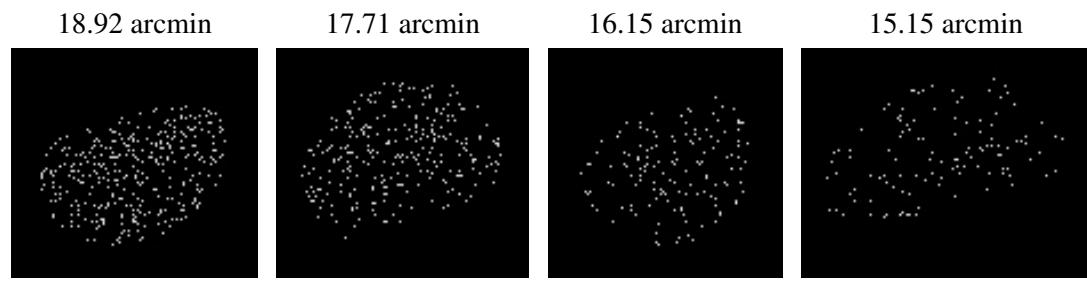
A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.87

A.2 Comments

The current observation has been reprocessed as part of Repro III ('C'
supplement) the purpose of which is to update all HRC-I ObsIDs since Jan
2000 to the latest calibrations available for that configuration.
Specifically, we are updating the DEGAP solution and the Gain Maps
applied. For more information see the Repro IIIC web page at

http://asc.harvard.edu/cda/repro3.html#IIIc

and the associated links.