

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8303 - L2 Version 4
Chandra X-Ray Center

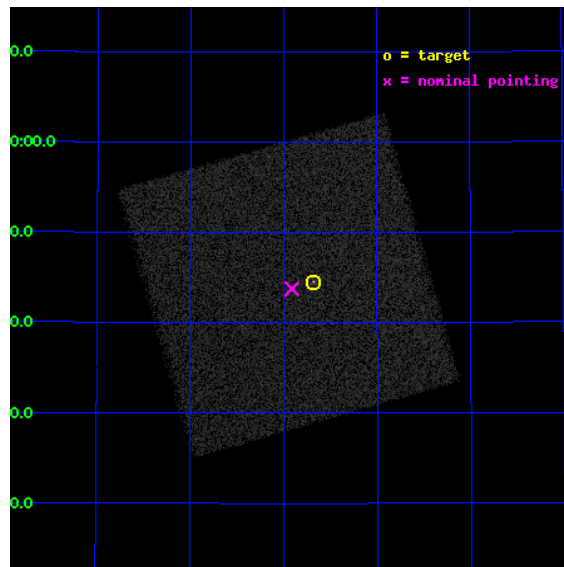
L2 Processing Date : Aug 11 2012

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

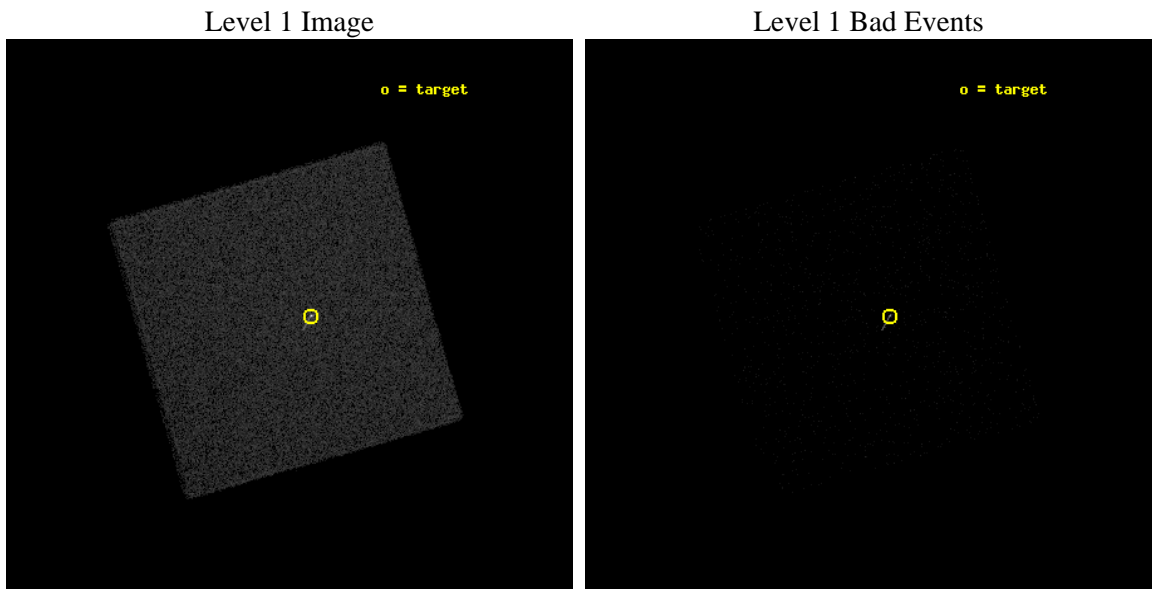
| | | |
|----------|--|---------------------------------------|
| seq_num | 290682 | Sequence number |
| obs_id | 8303 | Observation id |
| title | AO8 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.22776897577 | Nominal RA [deg] |
| dec_nom | 45.729597628783 | Nominal Dec [deg] |
| roll_nom | 208.9808441438 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 1190.2813071609 | [s] |
| livetime | 1177.8055219585 | Ontime multiplied by DTCOR |
| l2events | 74490 | 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 | 1190.2813071609 | [s] |
| caldbver | 4.5.1.1 | | l1events | 137000 | Number of level 1 events |
| date | 2012-08-12T01:40:38 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

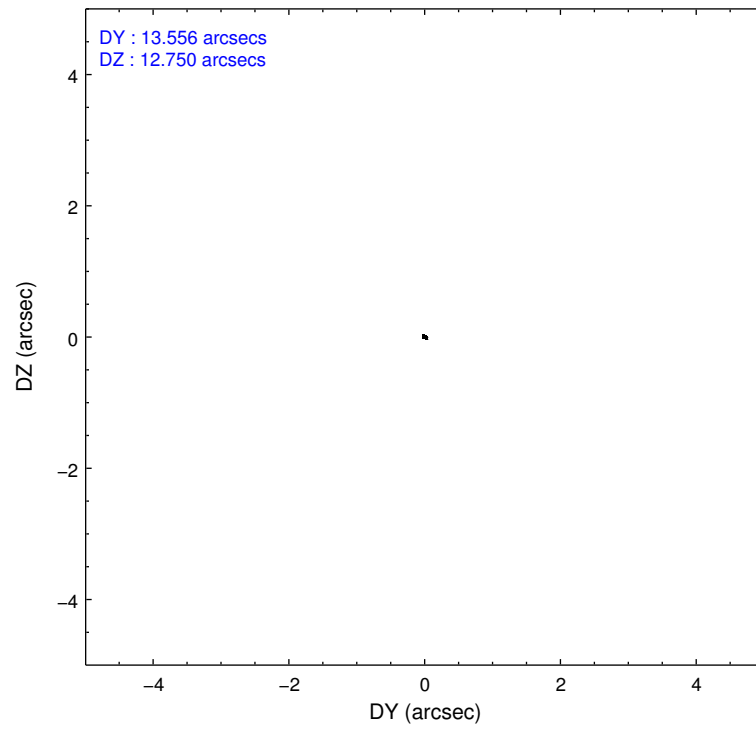
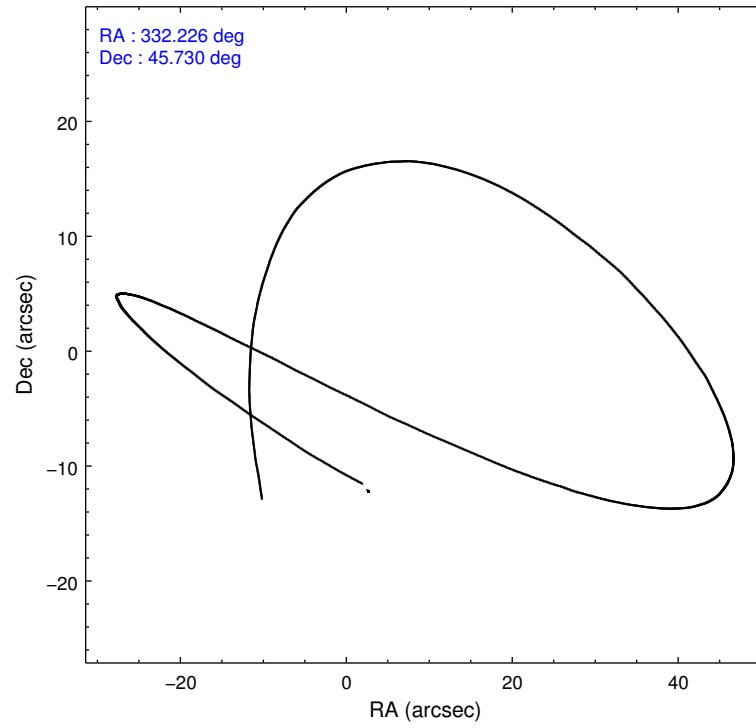
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 137000 |
| rejected events | 28971 |
| rejected % | 21% |

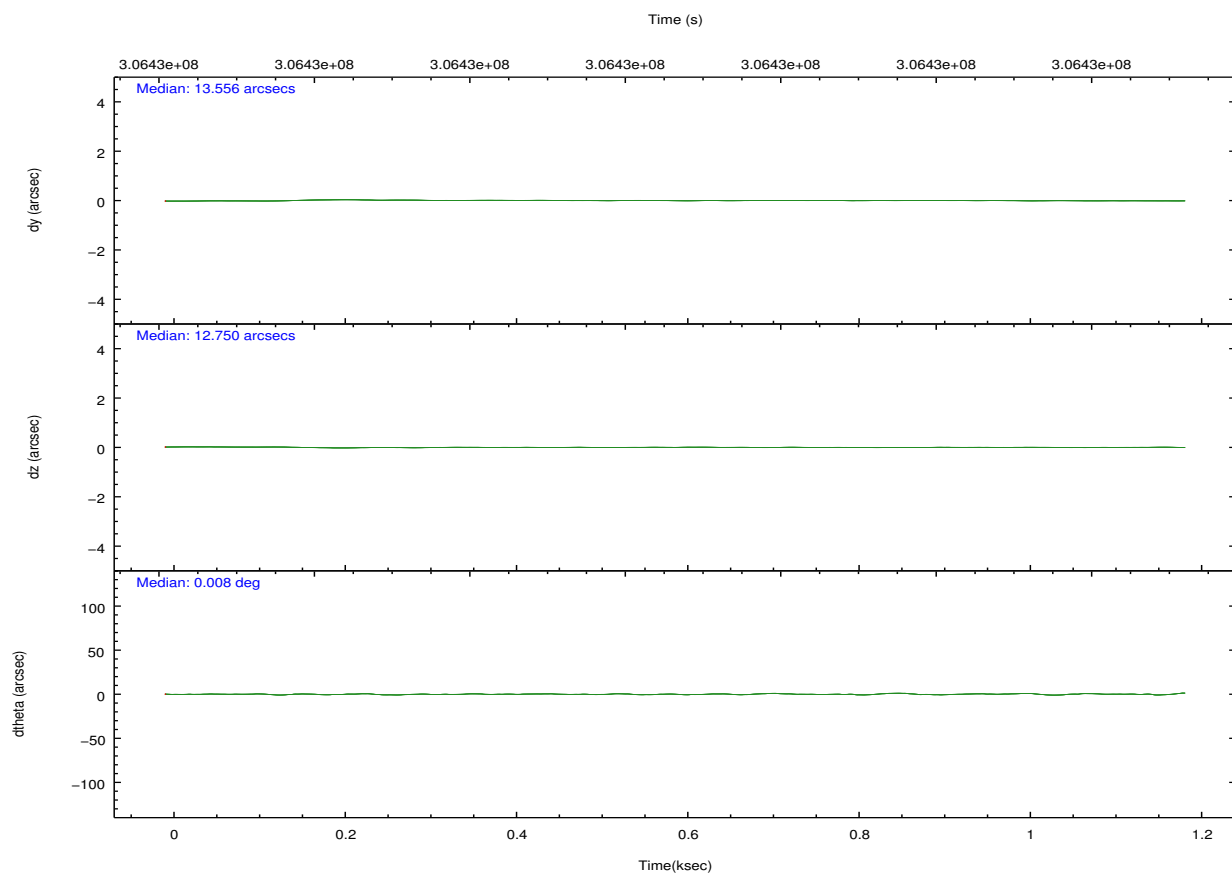
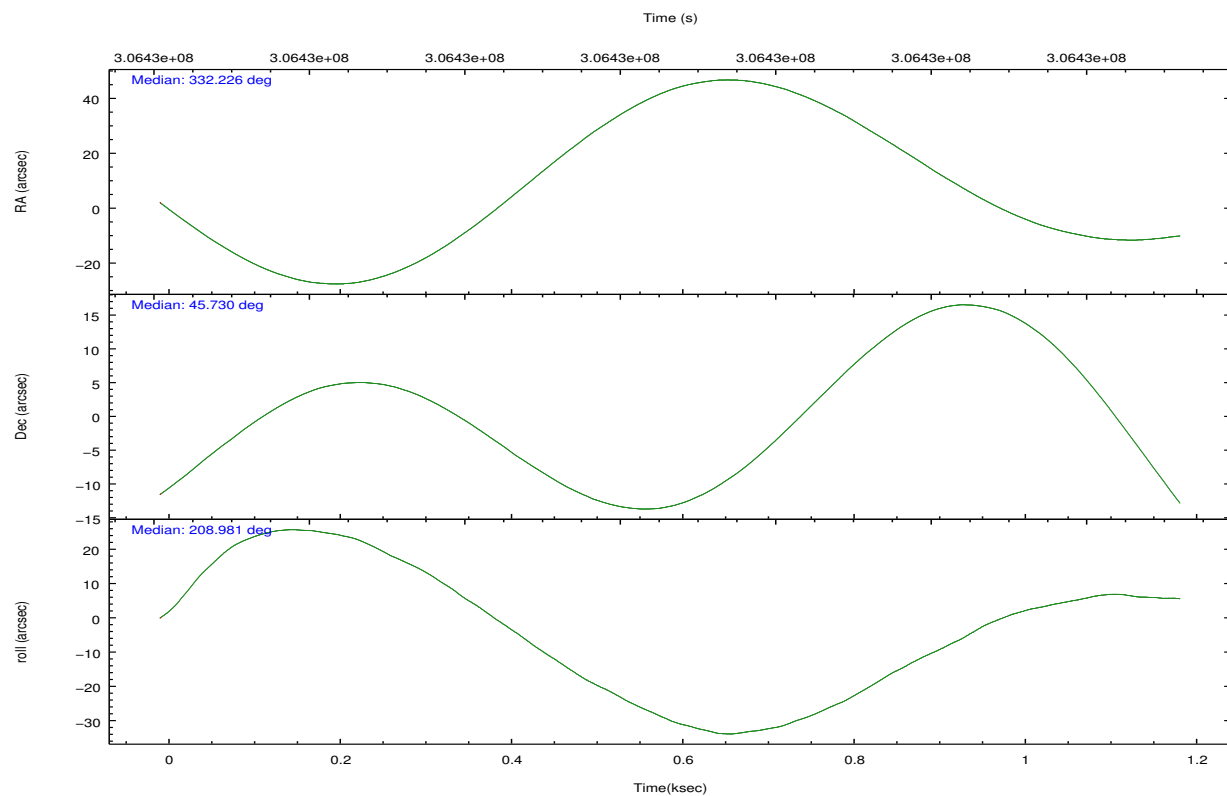
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|------------------------|
| Instrument | HRC | HRC |
| Detector | HRC-I | HRC-I |
| Grating | NONE | NONE |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 332.248264 | 332.2277689757652 |
| [deg] Pointing Dec | 45.752474 | 45.7295976287833 |
| [deg] Pointing Roll | 209.061624 | 208.9808441438028 |
| [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) | 306432052.184000 | 306431676.56355 |
| Observation start date | 2007-09-17T15:59:47 | 2007-09-17T15:54:36 |
| [s] Observation end time (MET) | 306433052.184000 | 306433186.38862 |
| Observation end date | 2007-09-17T16:16:27 | 2007-09-17T16:19:46 |

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

2.3 Aspect



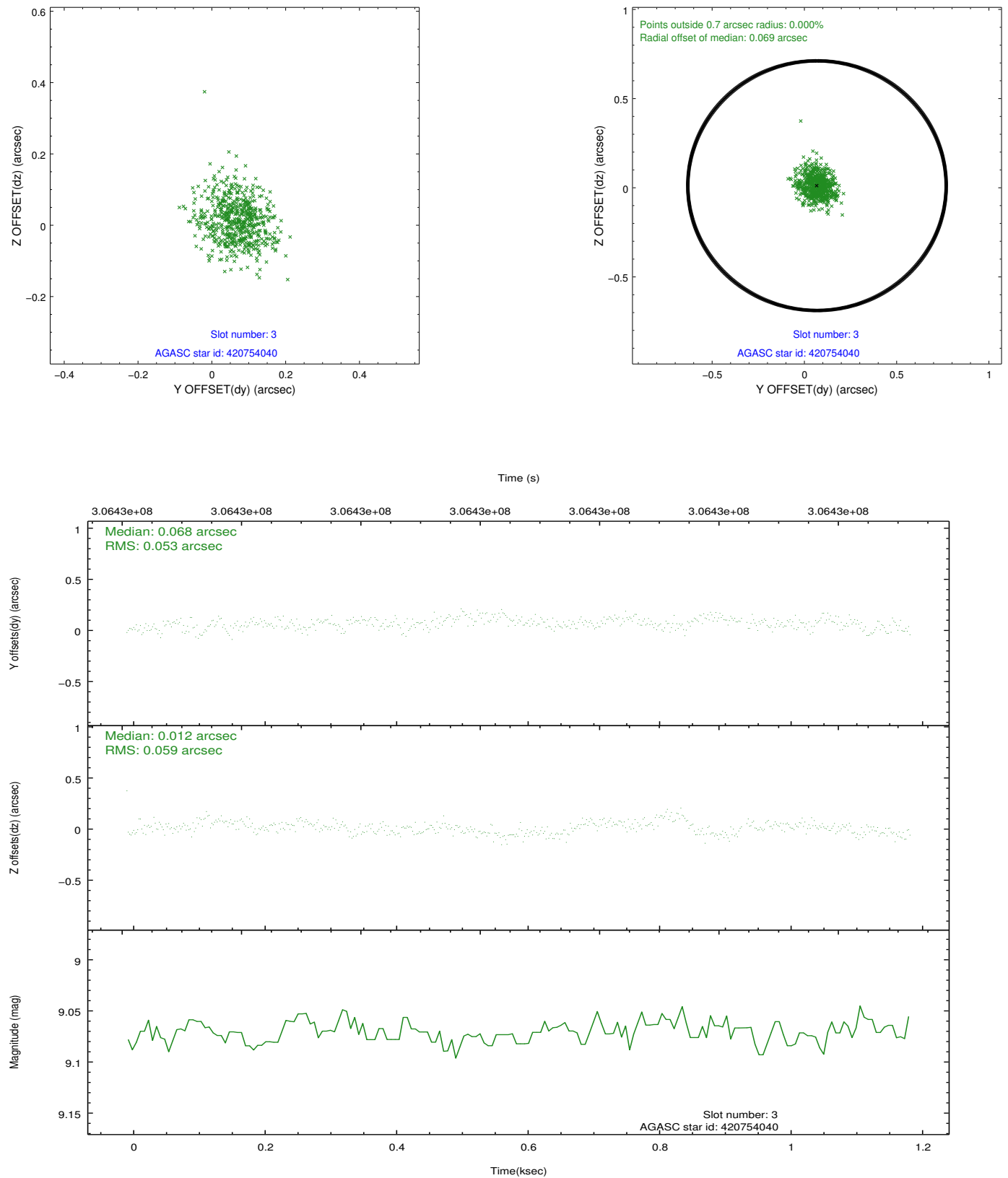


Slot Statistics

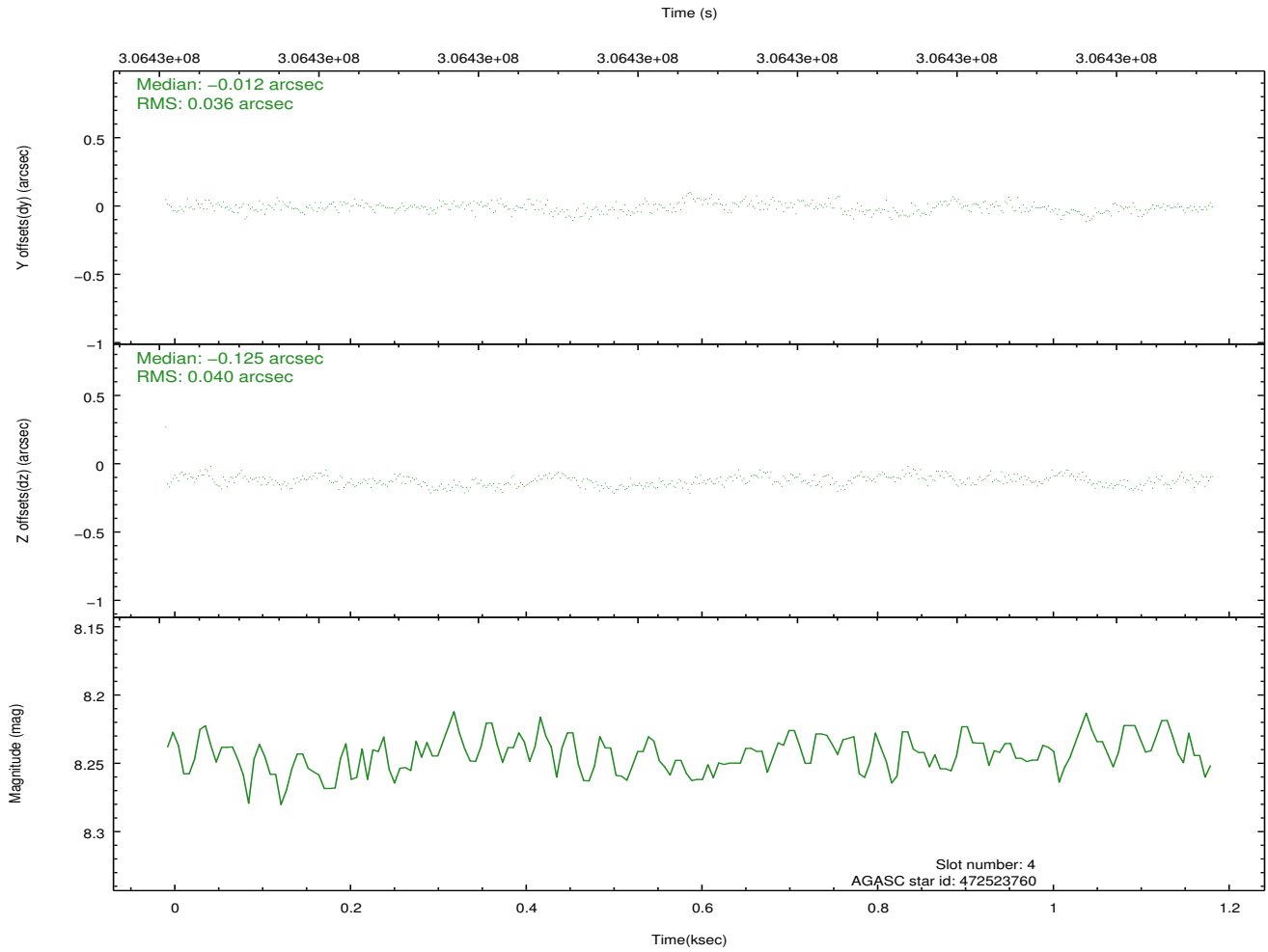
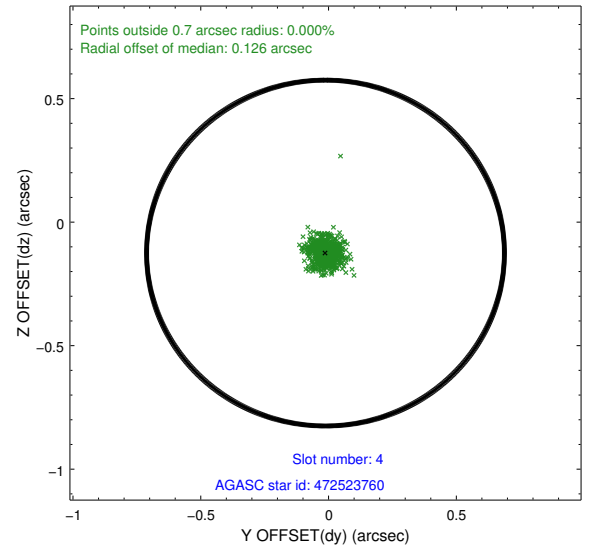
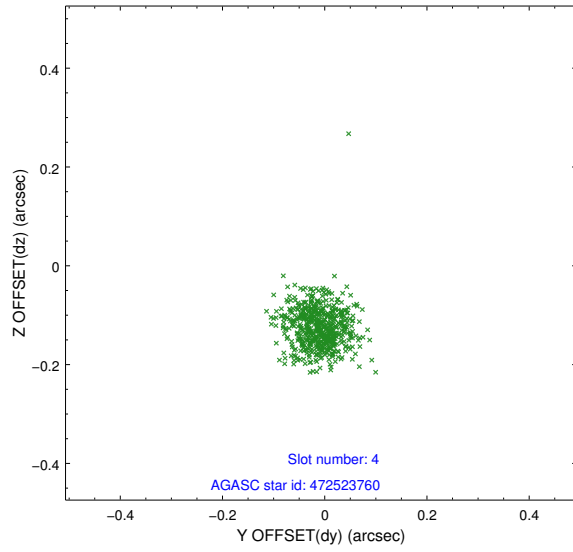
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-2 | 7.02 | 291 | 0.152 | -0.118 | 0.006 | 0.010 | 0.000000 | 0.000000 | 843.47 | -1302.50 |
| 1 | FID | HRC-I-3 | 7.07 | 291 | -0.142 | 0.091 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1195.05 | 999.36 |
| 2 | FID | HRC-I-4 | 7.00 | 291 | 0.108 | -0.060 | 0.006 | 0.010 | 0.000000 | 0.000000 | 1269.47 | 1004.73 |
| 3 | GUIDE | 420754040 | 9.07 | 579 | 0.068 | 0.012 | 0.083 | 0.133 | 331.917939 | 44.882543 | 2255.09 | 2330.85 |
| 4 | GUIDE | 472523760 | 8.24 | 582 | -0.012 | -0.125 | 0.055 | 0.089 | 331.645363 | 45.403260 | 1942.83 | 361.54 |
| 5 | GUIDE | 472663080 | 9.40 | 581 | 0.119 | 0.065 | 0.096 | 0.151 | 332.652741 | 46.473840 | -2136.84 | -1780.49 |
| 6 | GUIDE | 472665256 | 9.01 | 582 | 0.161 | 0.039 | 0.075 | 0.129 | 332.808125 | 46.195041 | -2000.33 | -718.33 |
| 7 | GUIDE | 472525528 | 6.64 | 581 | -0.339 | 0.007 | 0.077 | 0.131 | 331.551102 | 45.248694 | 2416.94 | 723.07 |

2.4 Star Slots

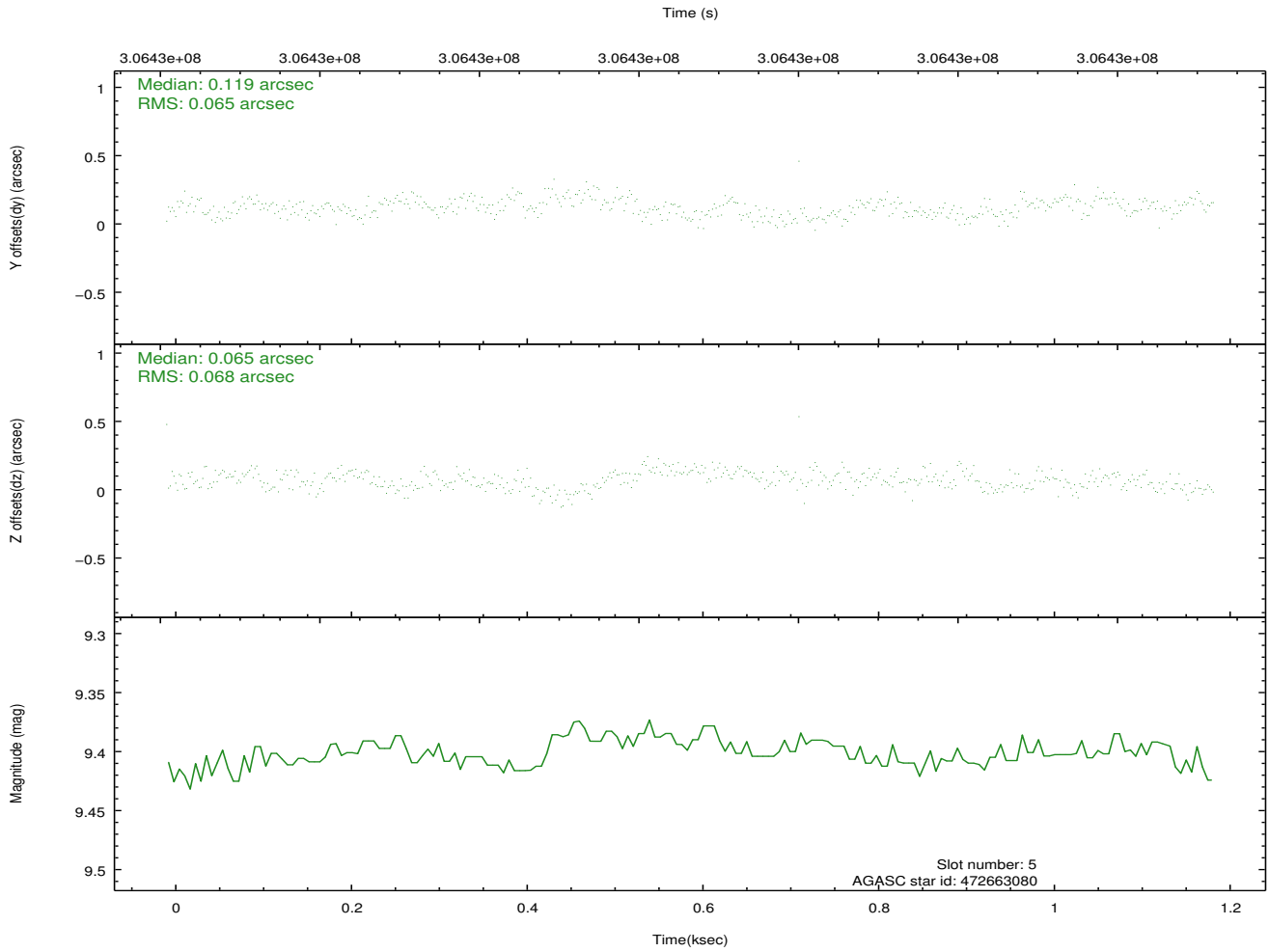
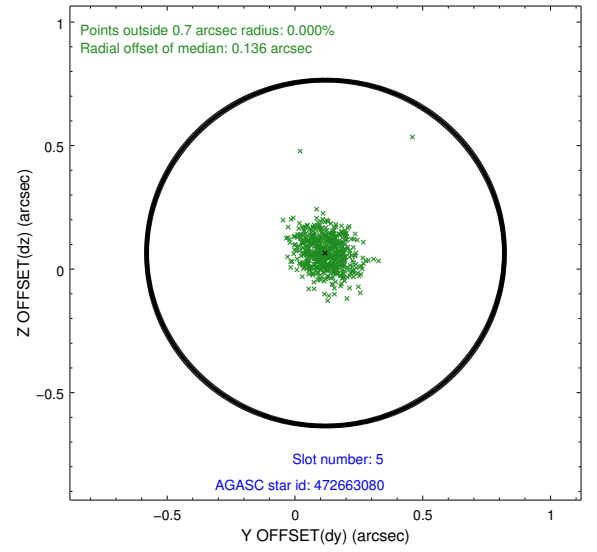
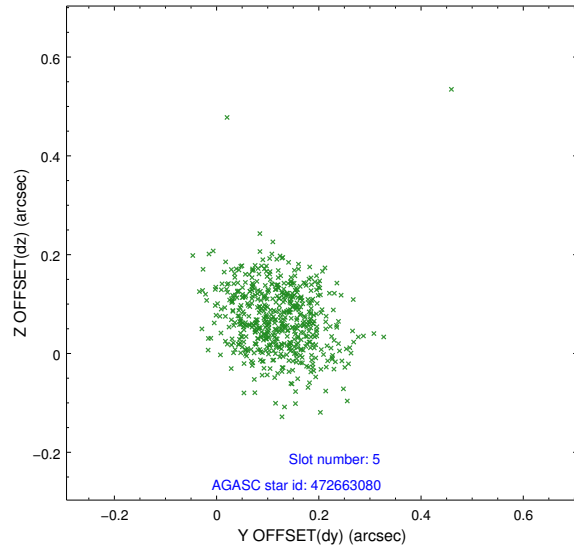
2.4.1 Slot 3



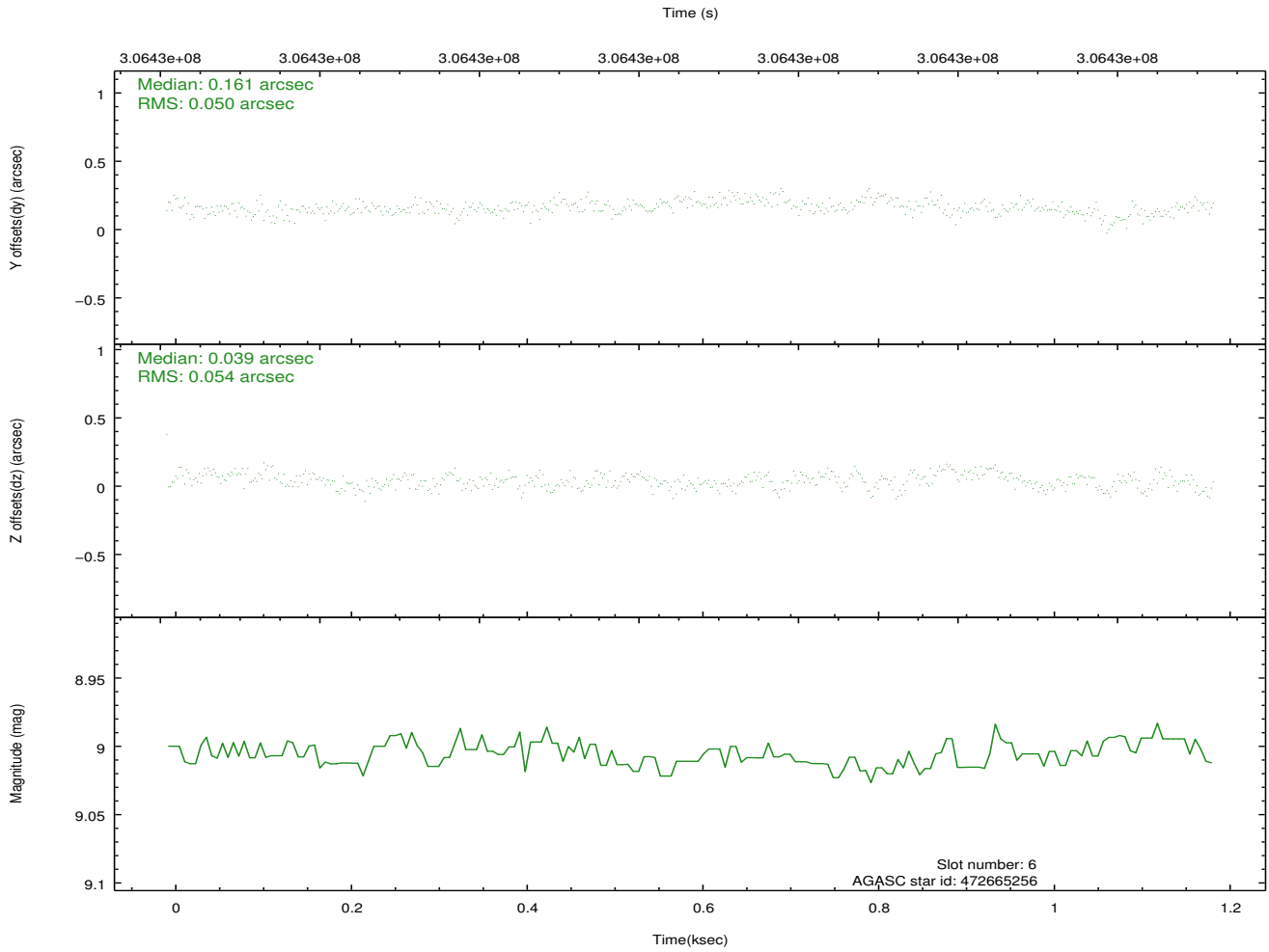
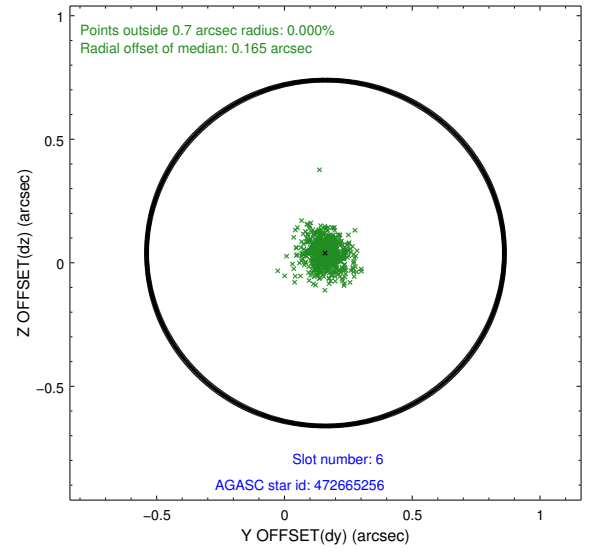
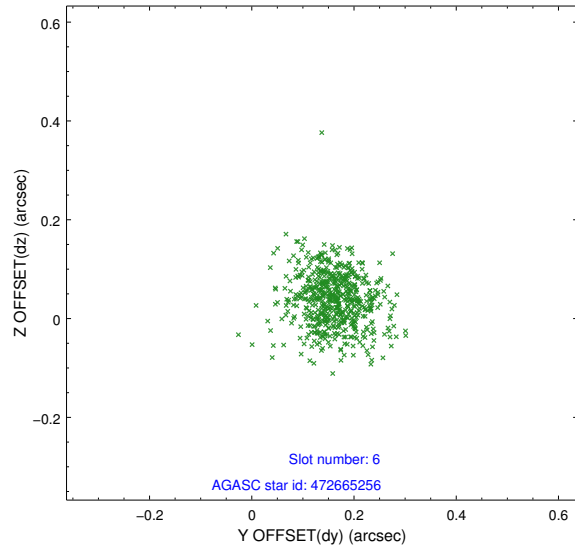
2.4.2 Slot 4



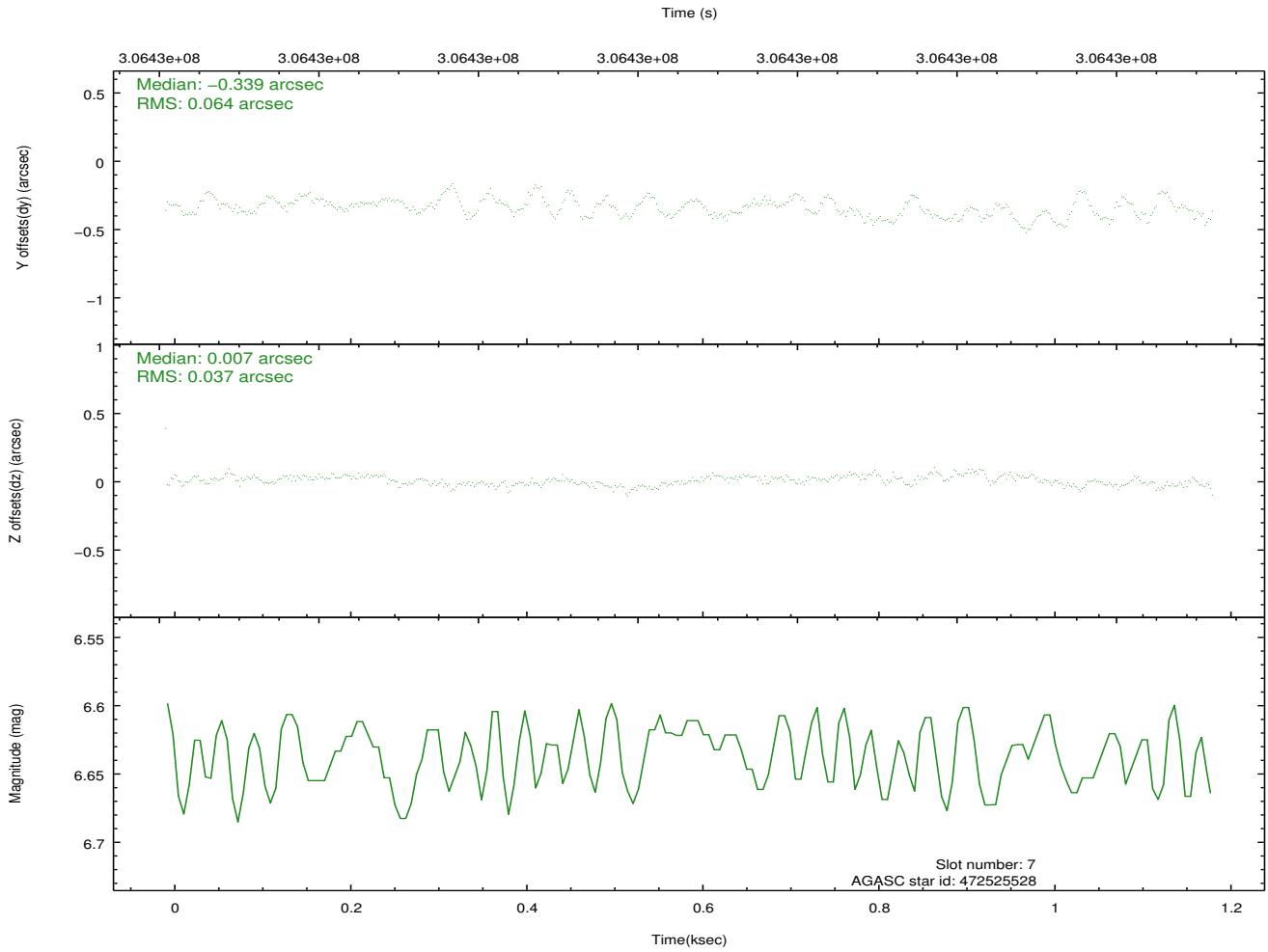
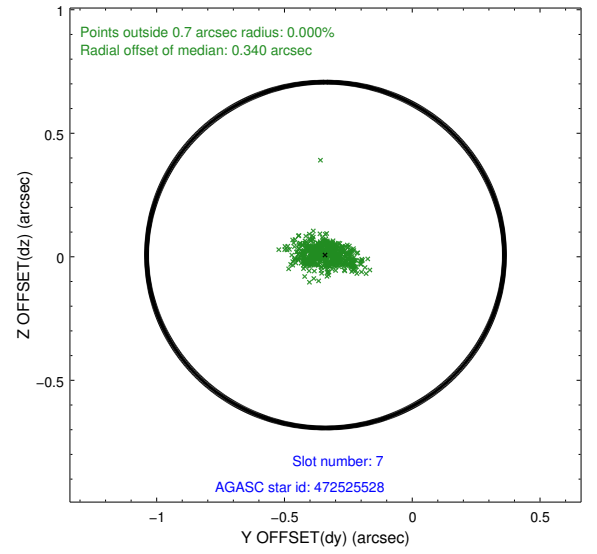
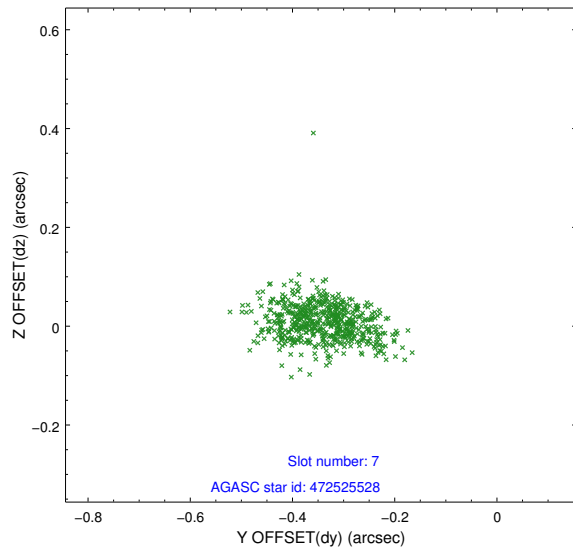
2.4.3 Slot 5



2.4.4 Slot 6

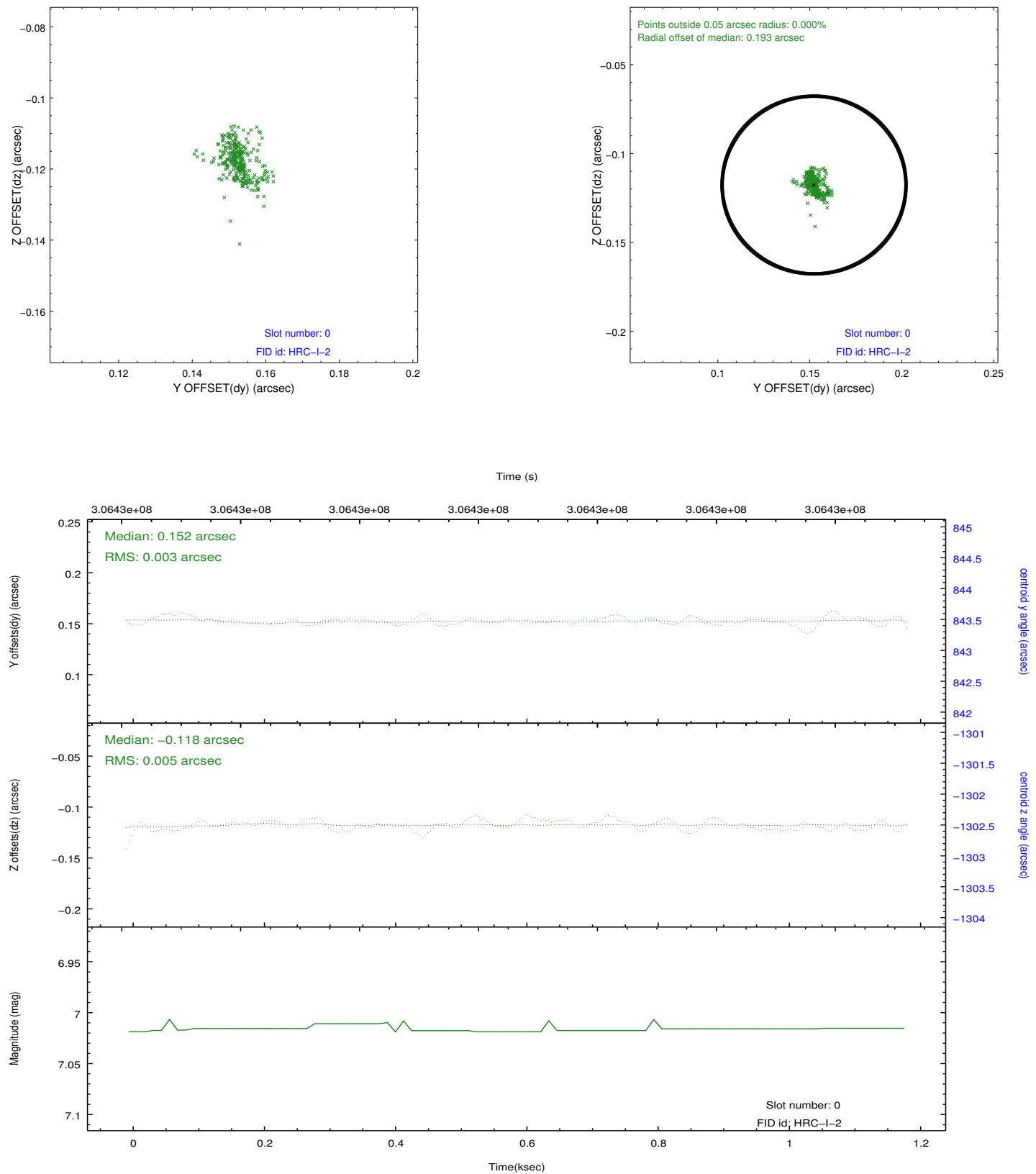


2.4.5 Slot 7

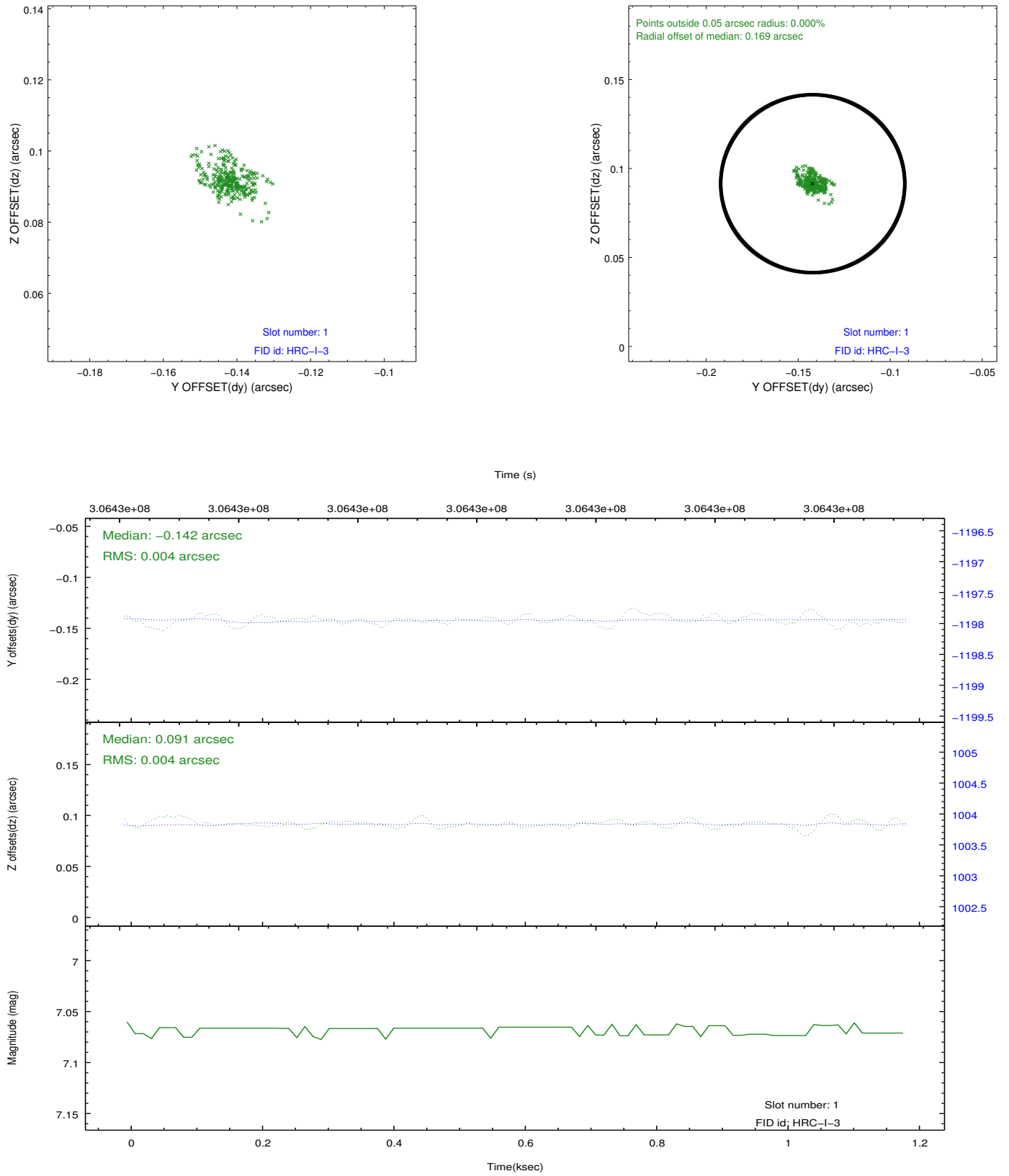


2.5 FID Slots

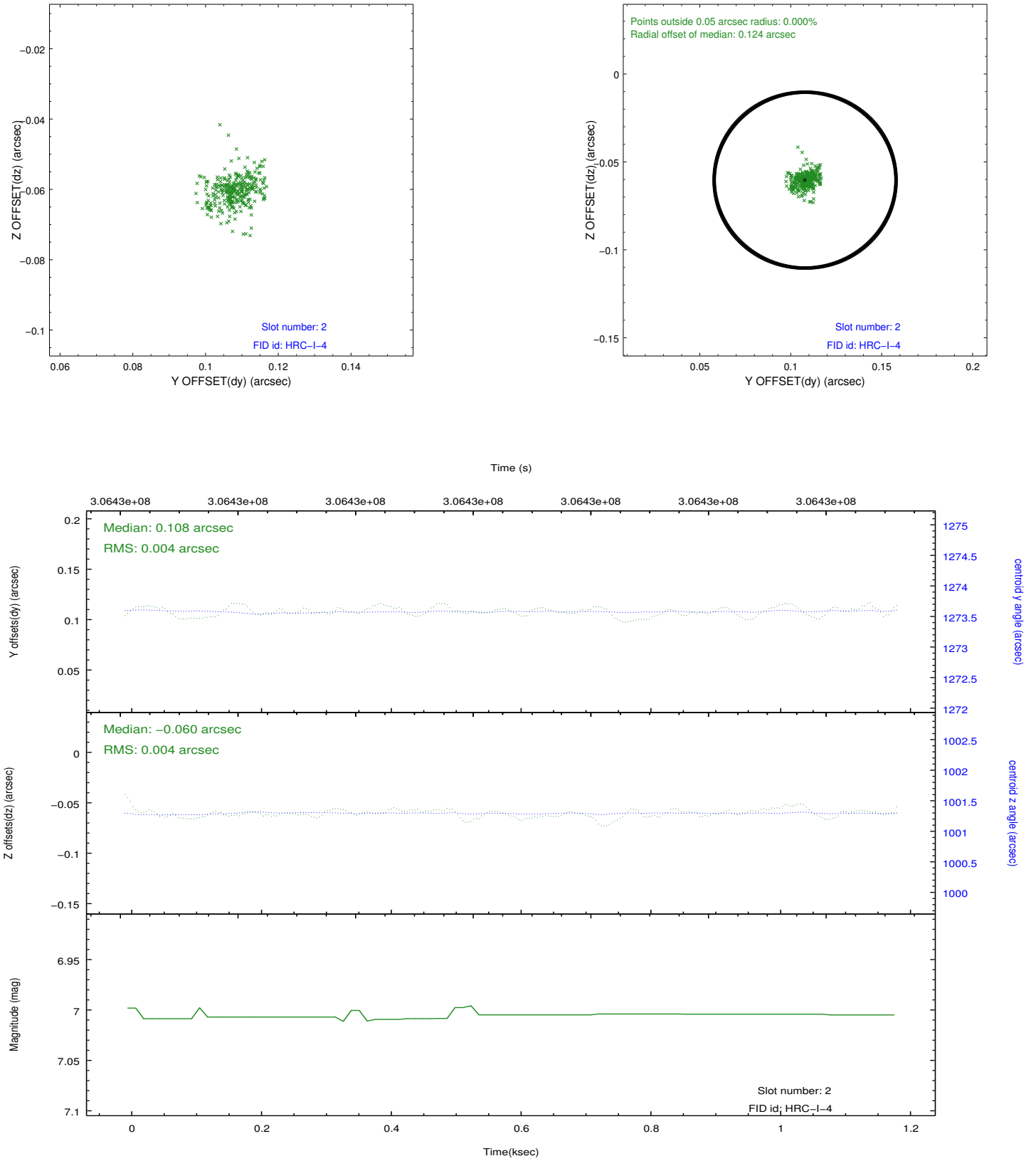
2.5.1 Slot 0



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) | 2012.08.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1902813 |

A.2 Comments