

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13085 - L2 Version 4
Chandra X-Ray Center

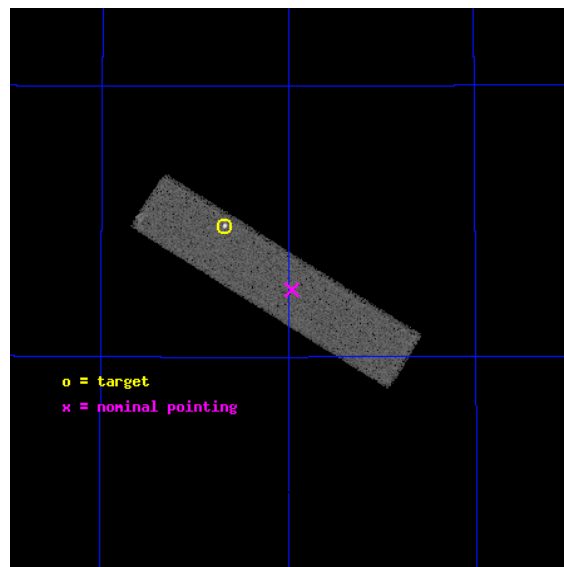
L2 Processing Date : Aug 9 2012

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1 Front

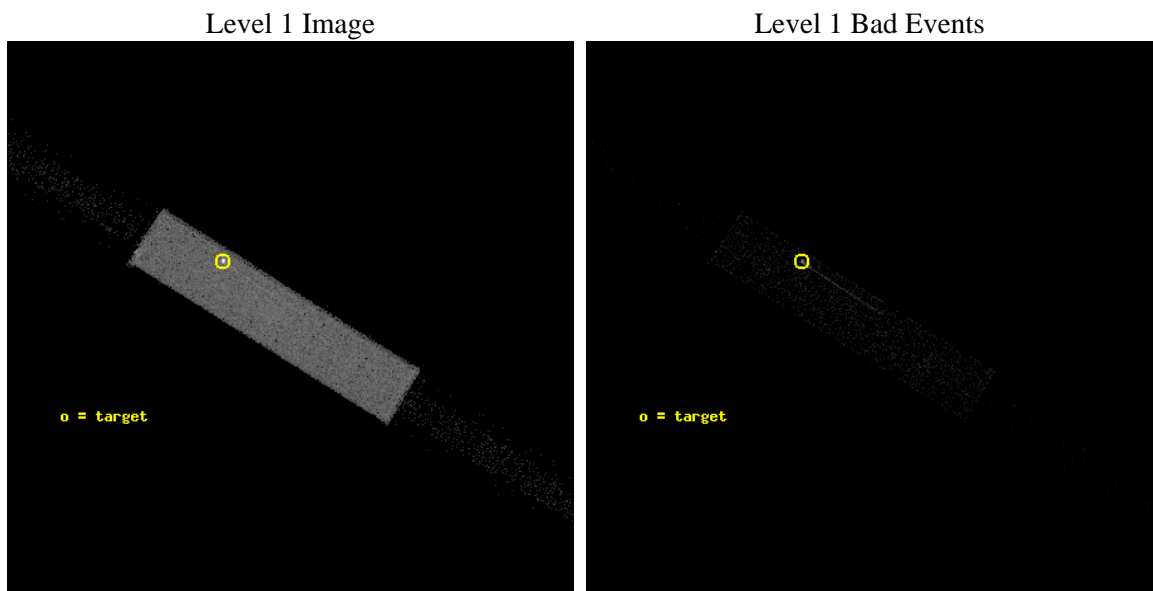
| | | |
|----------|------------------------------------------------------------------------------------|---------------------------------------|
| seq_num | 291004 | Sequence number |
| obs_id | 13085 | Observation id |
| title | AO-12 Calibration Observations to Monitor the Spatial Variations in the 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 | 331.99004375816 | Nominal RA [deg] |
| dec_nom | 45.624354183027 | Nominal Dec [deg] |
| roll_nom | 211.81178150502 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 1155.4313105345 | [s] |
| livetime | 1147.3628782335 | Ontime multiplied by DTCOR |
| l2events | 59471 | 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 | 1155.4313105345 | [s] |
| caldsver | 4.5.1.1 | | l1events | 92827 | Number of level 1 events |
| date | 2012-08-10T02:41:53 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

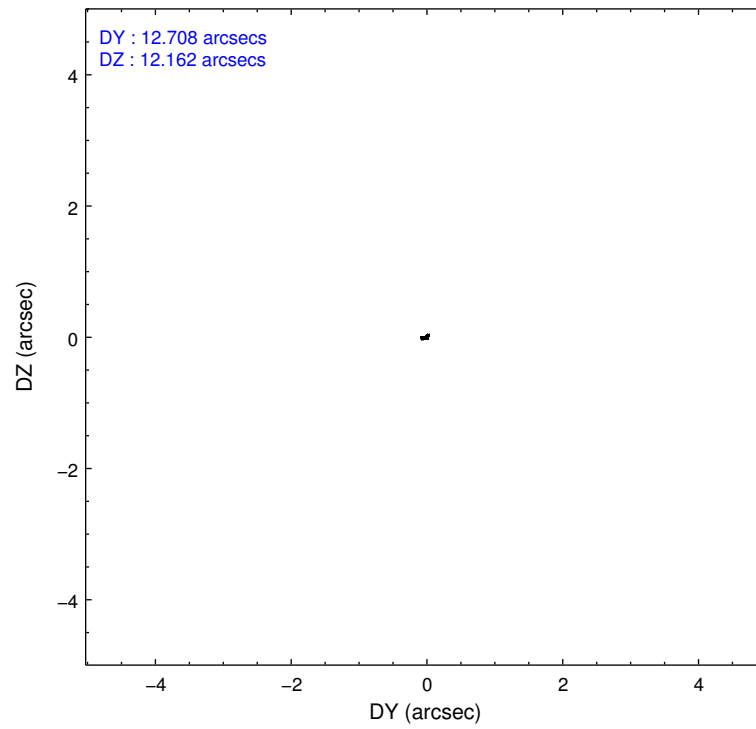
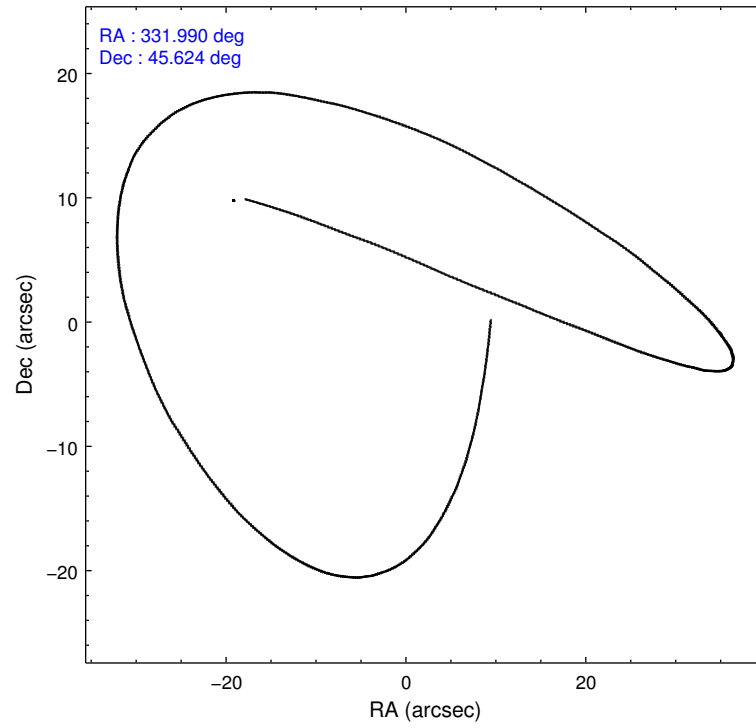
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 851 | 91143 | 833 |
| rejected events | 851 | 20879 | 833 |
| rejected % | 100% | 22% | 100% |

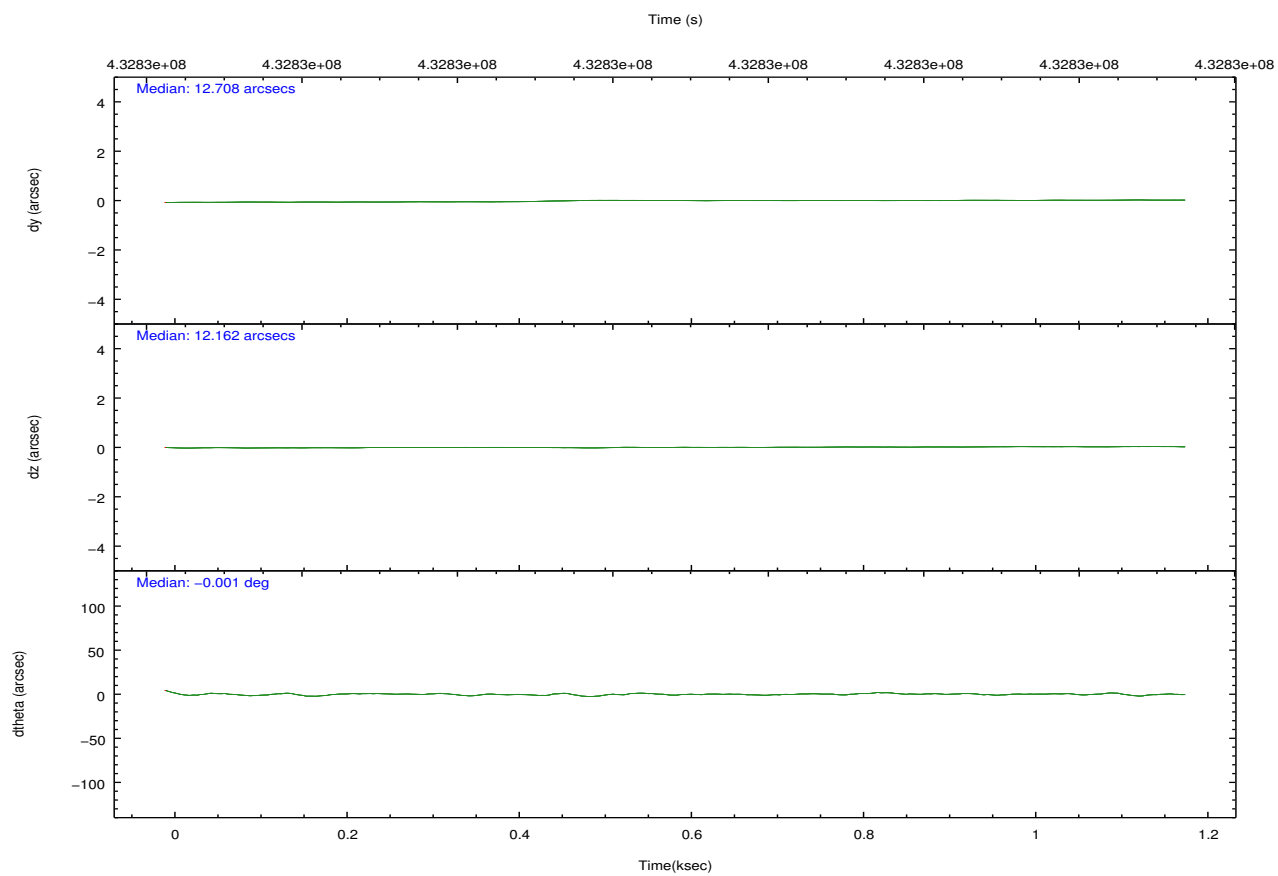
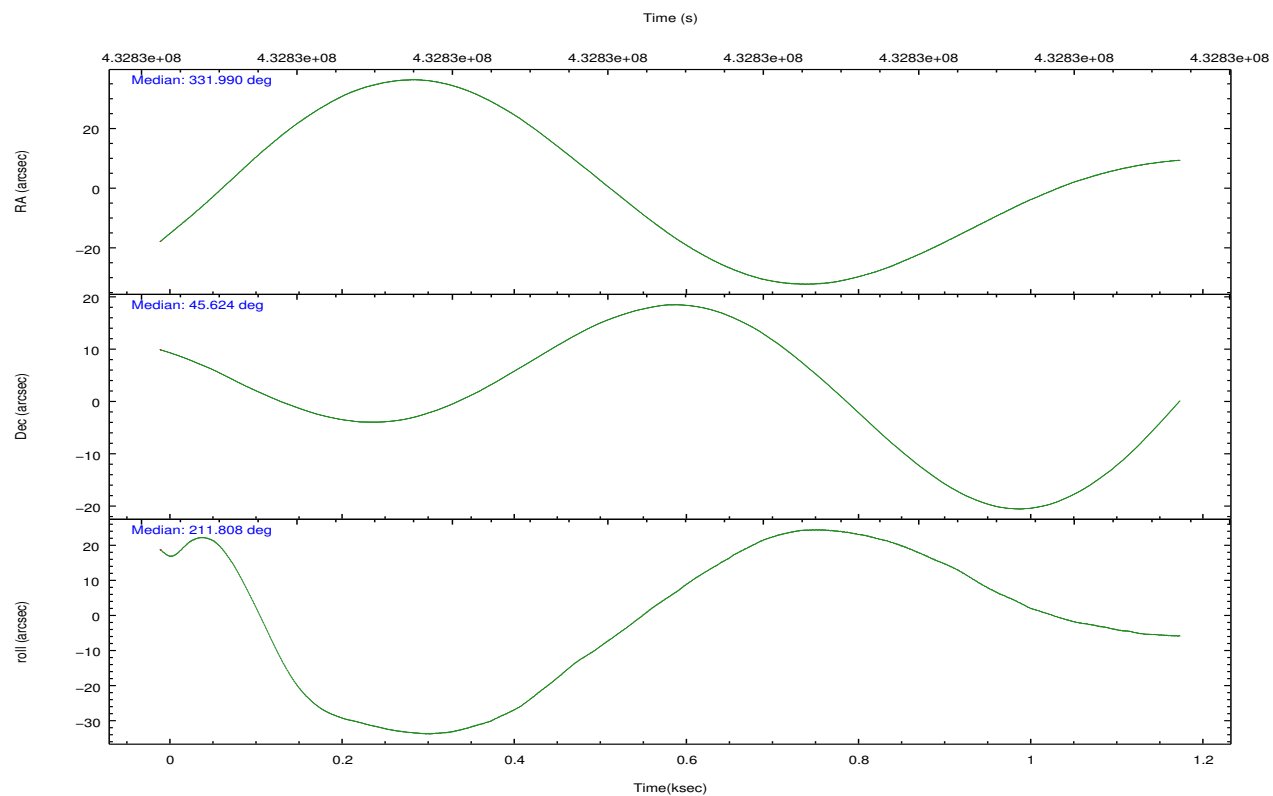
2.2 Compared Parameters

| 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 | 332.006805 | 331.9900437581637 |
| [deg] Pointing Dec | 45.651218 | 45.62435418302693 |
| [deg] Pointing Roll | 211.732569 | 211.8117815050226 |
| [mm] SIM focus pos | -1.533336 | -1.526339935833849 |
| [mm] SIM defocus | 7.710433287538843e-07 | 0.006996703570447904 |
| [mm] SIM translation stage pos | 250.455976 | 250.4635187648994 |
| [mm] SIM translation stage offset | 0 | -0.007540371344731511 |
| [s] Observation start time (MET) | 432827662.184000 | 432827285.91319 |
| Observation start date | 2011-09-19T13:53:16 | 2011-09-19T13:48:05 |
| [s] Observation end time (MET) | 432828662.184000 | 432828796.25077 |
| Observation end date | 2011-09-19T14:09:56 | 2011-09-19T14:13:16 |

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

2.3 Aspect



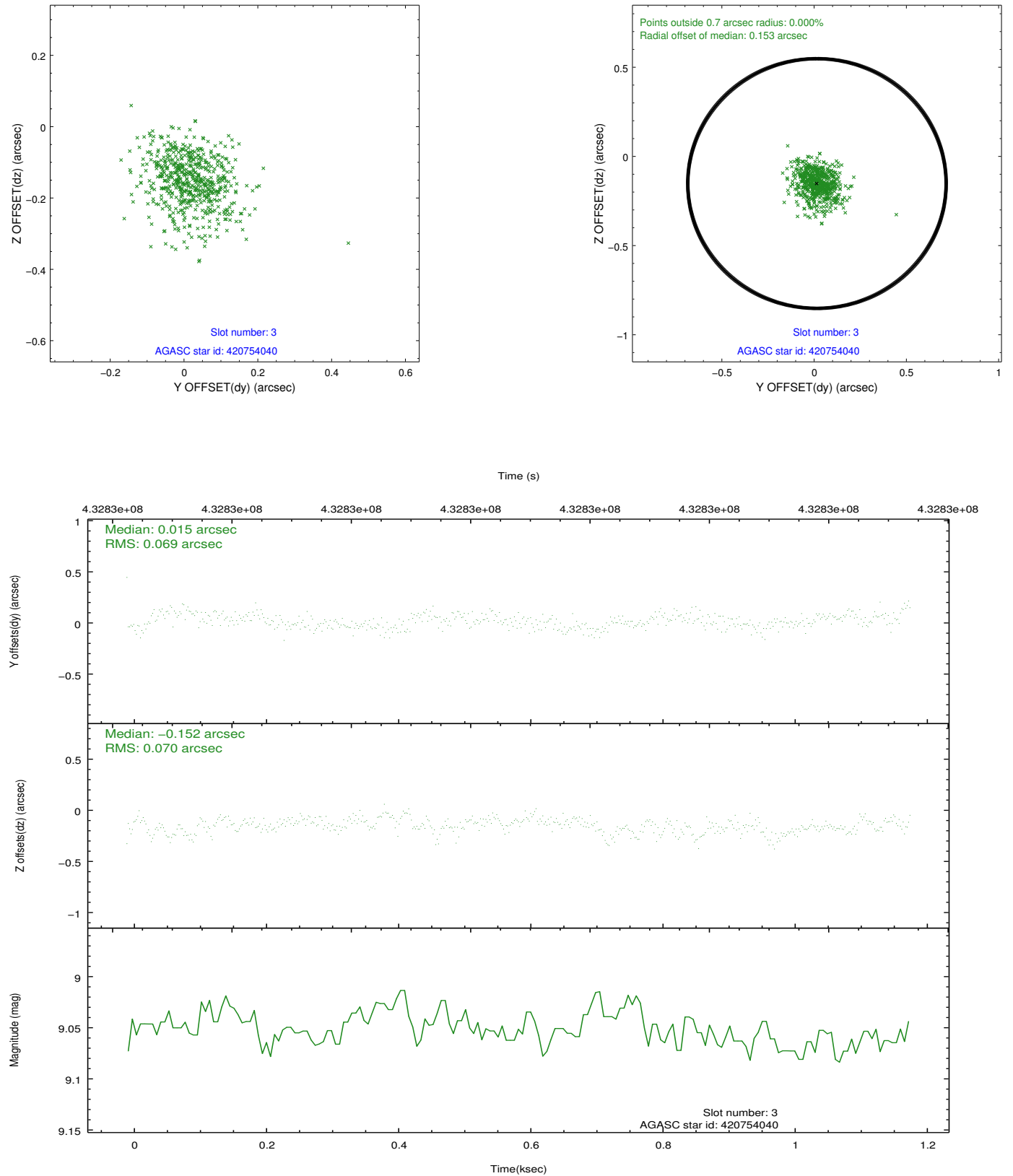


Slot Statistics

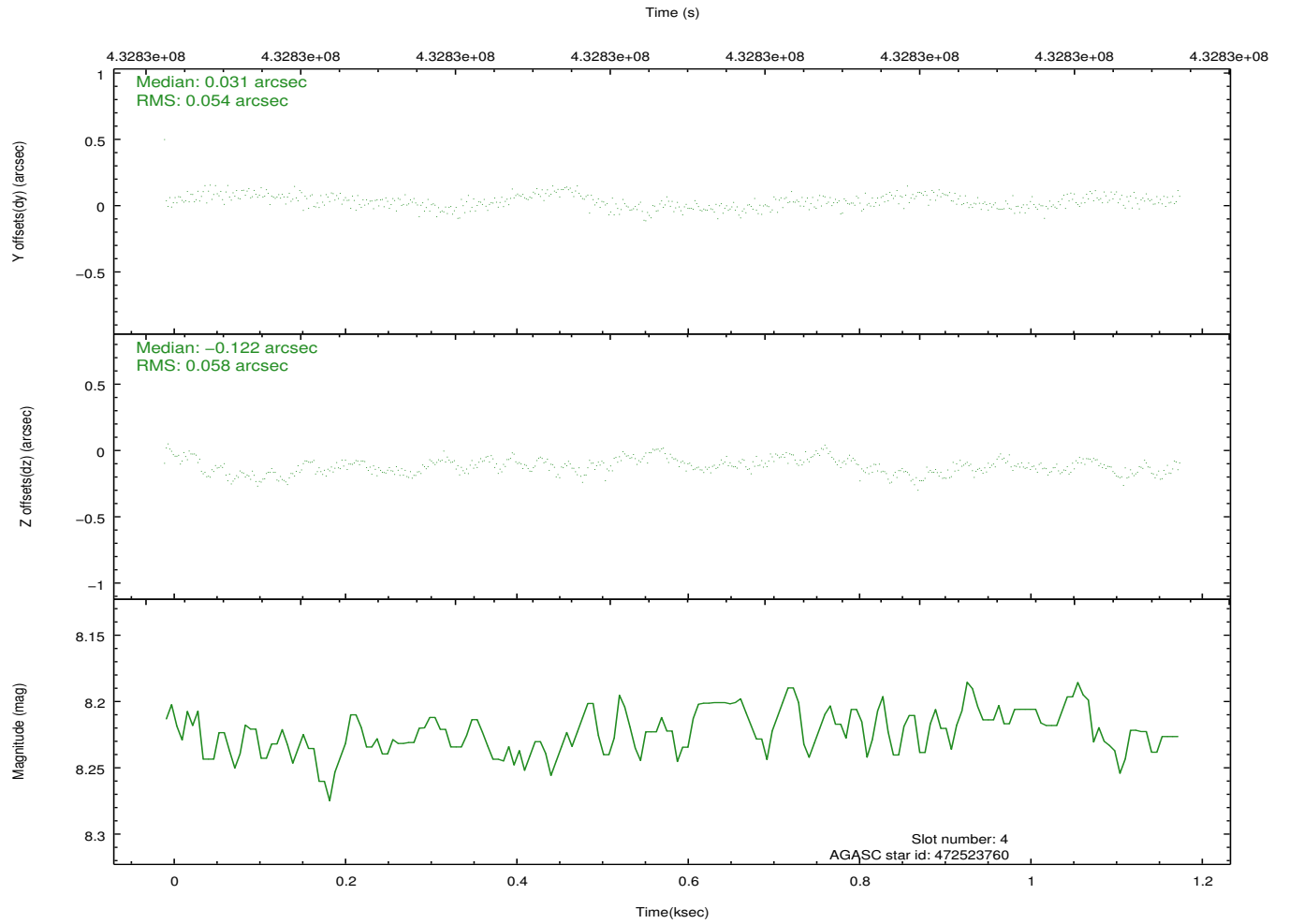
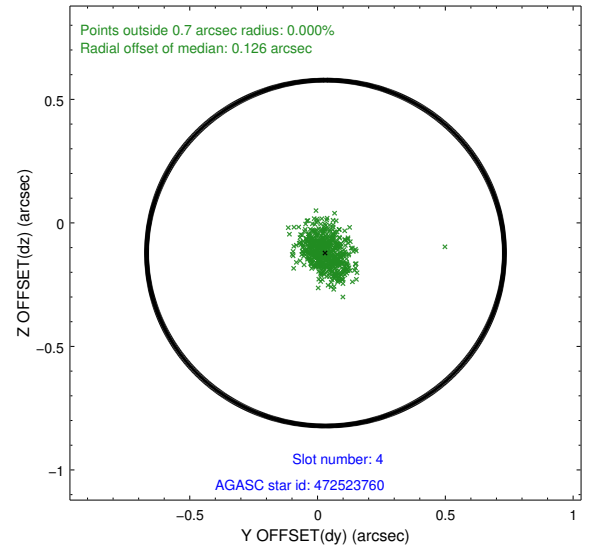
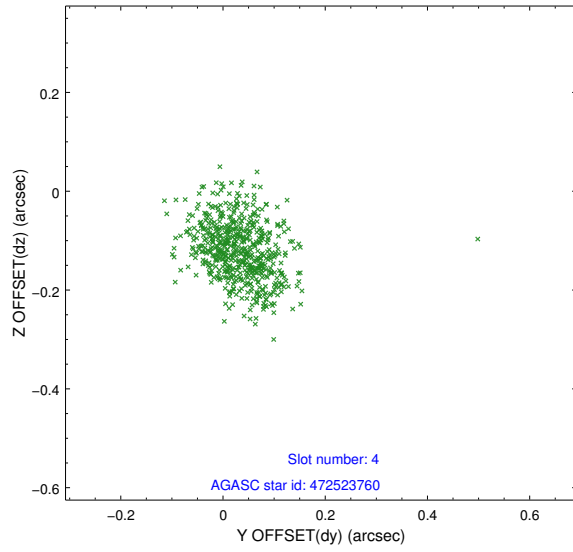
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 6.99 | 290 | -0.044 | -0.162 | 0.004 | 0.008 | 0.000000 | 0.000000 | -1167.17 | -460.82 |
| 1 | FID | HRC-S-2 | 6.98 | 290 | 0.174 | -0.014 | 0.007 | 0.016 | 0.000000 | 0.000000 | 1228.68 | -455.01 |
| 2 | FID | HRC-S-4 | 6.96 | 290 | 0.273 | -0.128 | 0.006 | 0.014 | 0.000000 | 0.000000 | 1235.66 | 569.61 |
| 3 | GUIDE | 420754040 | 9.05 | 579 | 0.015 | -0.152 | 0.100 | 0.172 | 331.917939 | 44.882543 | 1647.02 | 2230.79 |
| 4 | GUIDE | 472523760 | 8.22 | 579 | 0.031 | -0.122 | 0.084 | 0.134 | 331.645363 | 45.403260 | 1248.72 | 277.00 |
| 5 | GUIDE | 472527720 | 6.99 | 579 | -0.258 | -0.041 | 0.096 | 0.149 | 331.460205 | 45.112509 | 2200.78 | 911.89 |
| 6 | GUIDE | 472661712 | 9.99 | 575 | 0.257 | 0.270 | 0.205 | 0.349 | 331.914954 | 46.059715 | -573.77 | -1373.61 |
| 7 | GUIDE | 472655704 | 9.43 | 578 | -0.042 | 0.053 | 0.171 | 0.273 | 332.167195 | 45.285228 | 346.41 | 1327.86 |

2.4 Star Slots

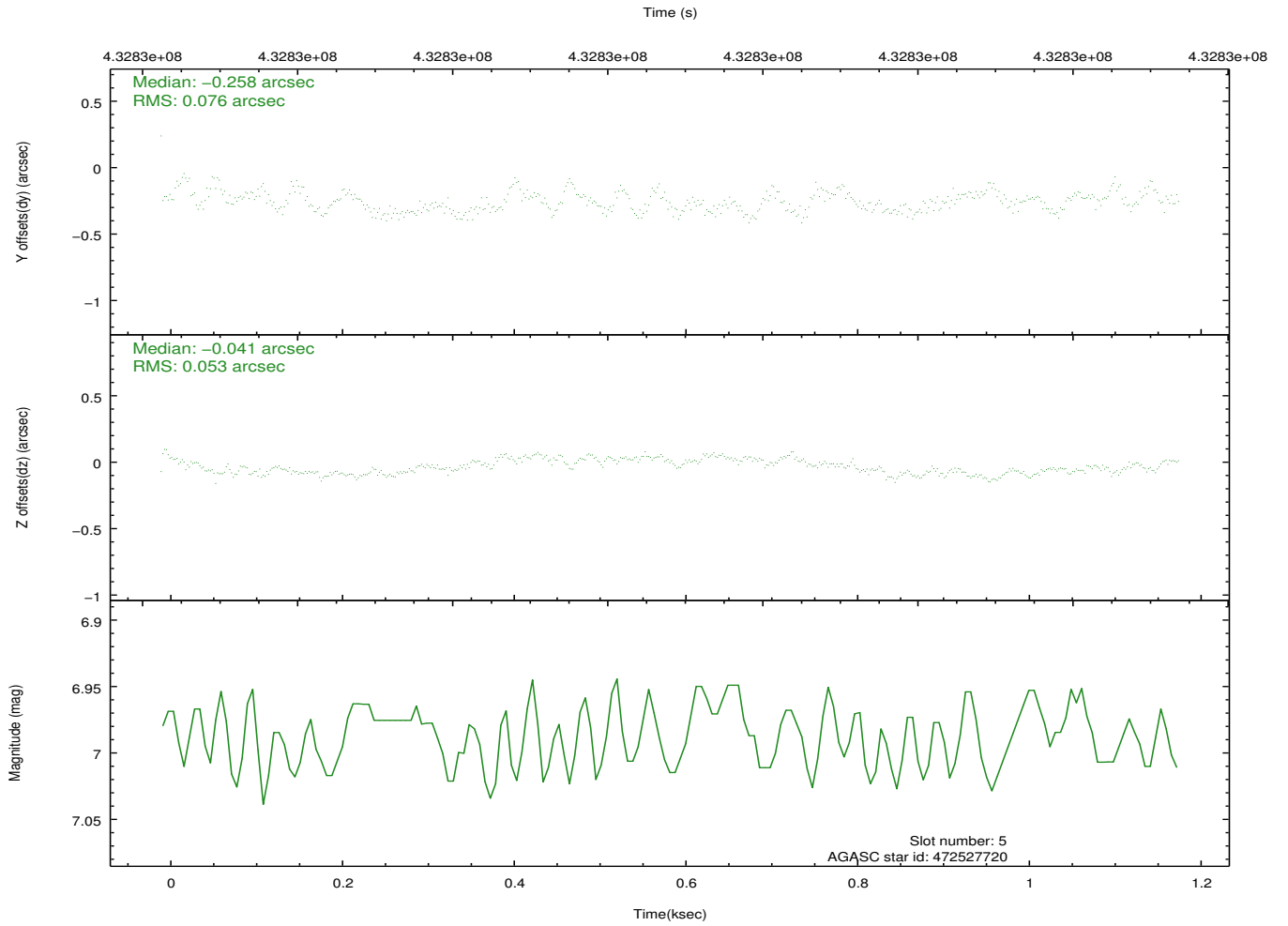
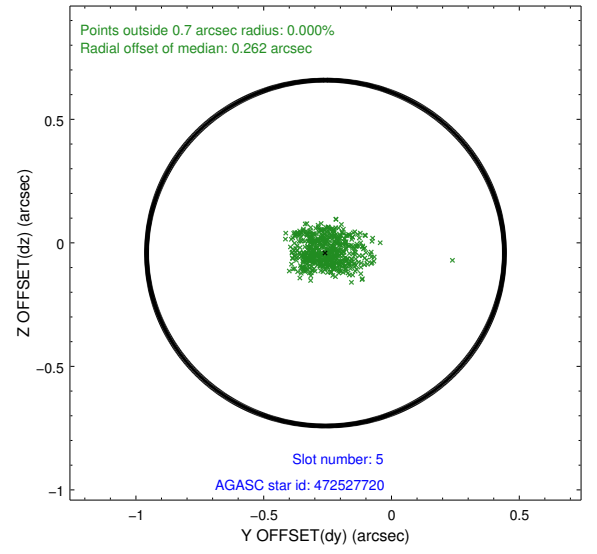
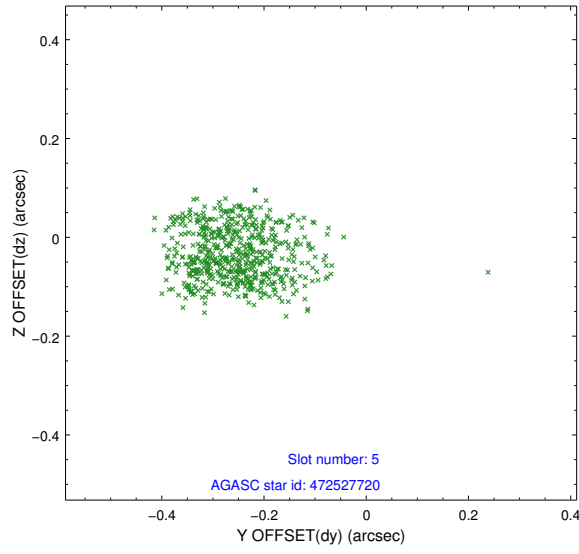
2.4.1 Slot 3



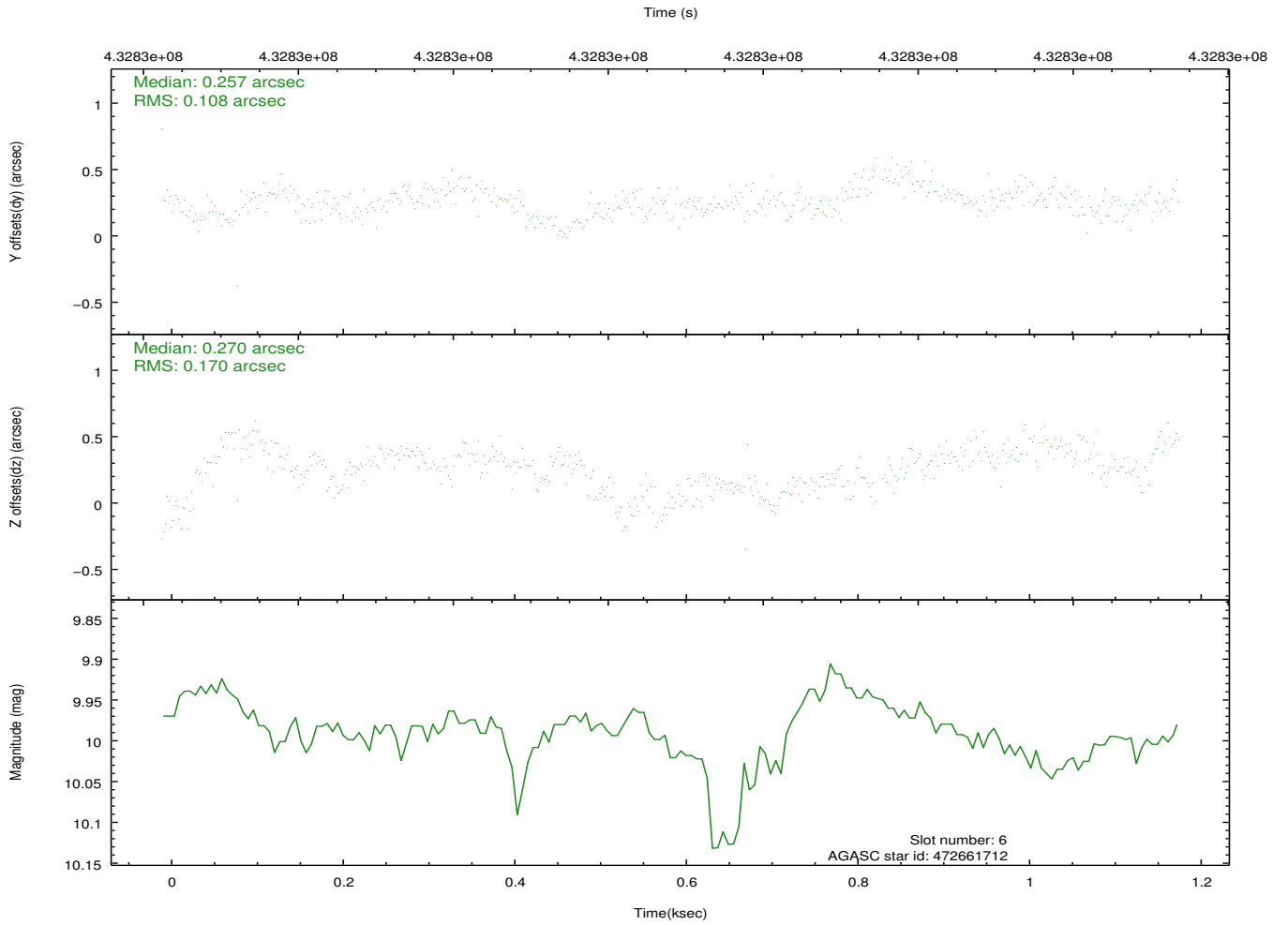
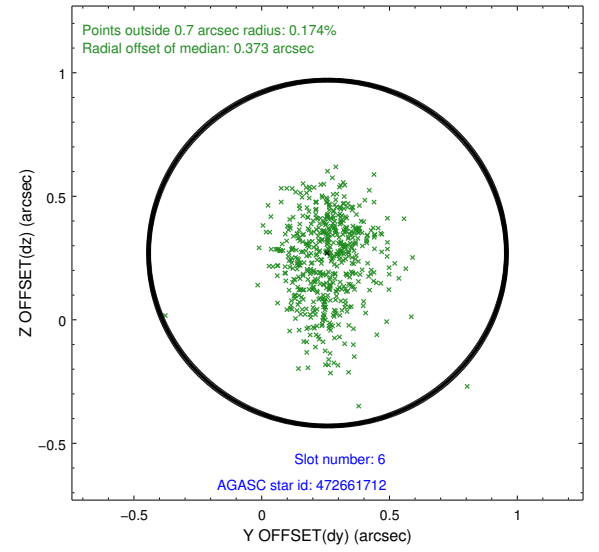
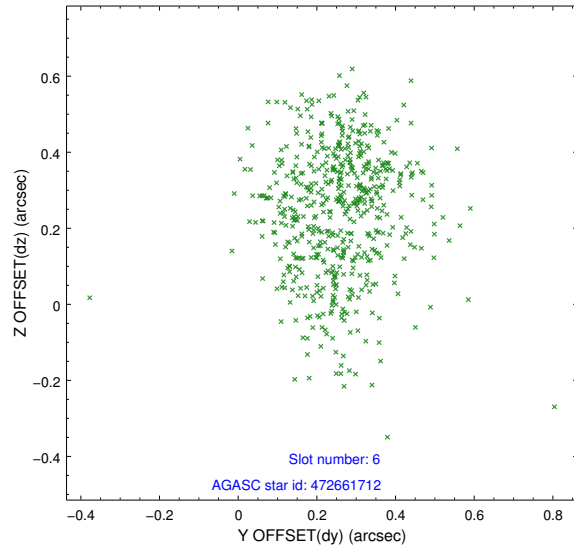
2.4.2 Slot 4



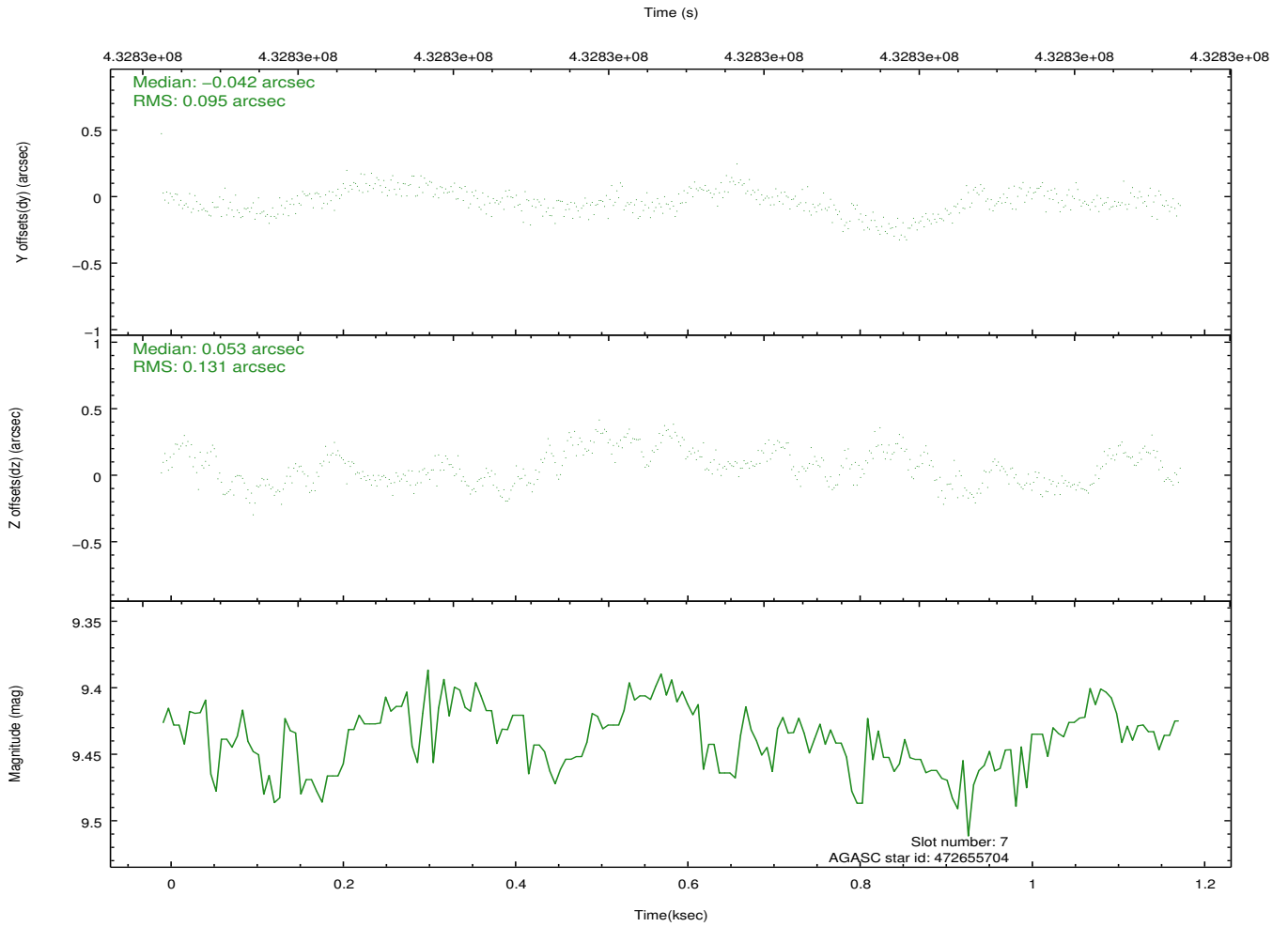
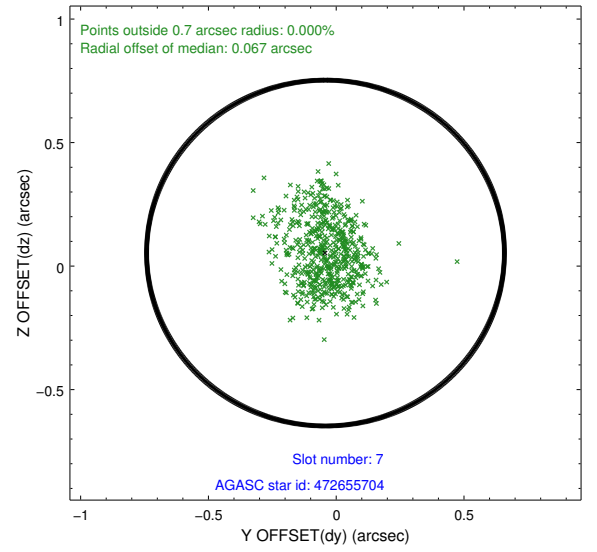
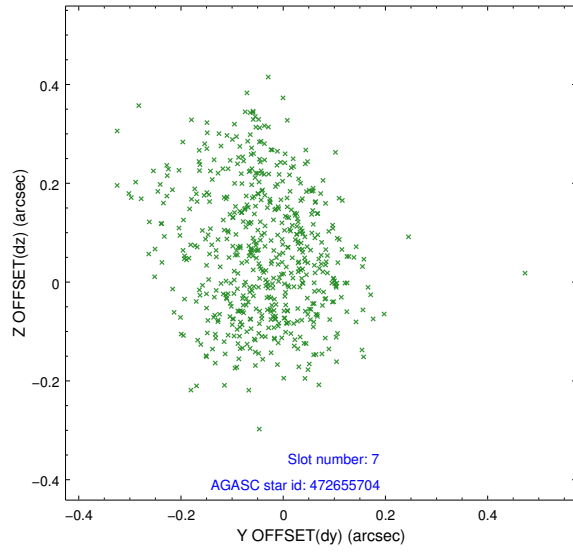
2.4.3 Slot 5



2.4.4 Slot 6

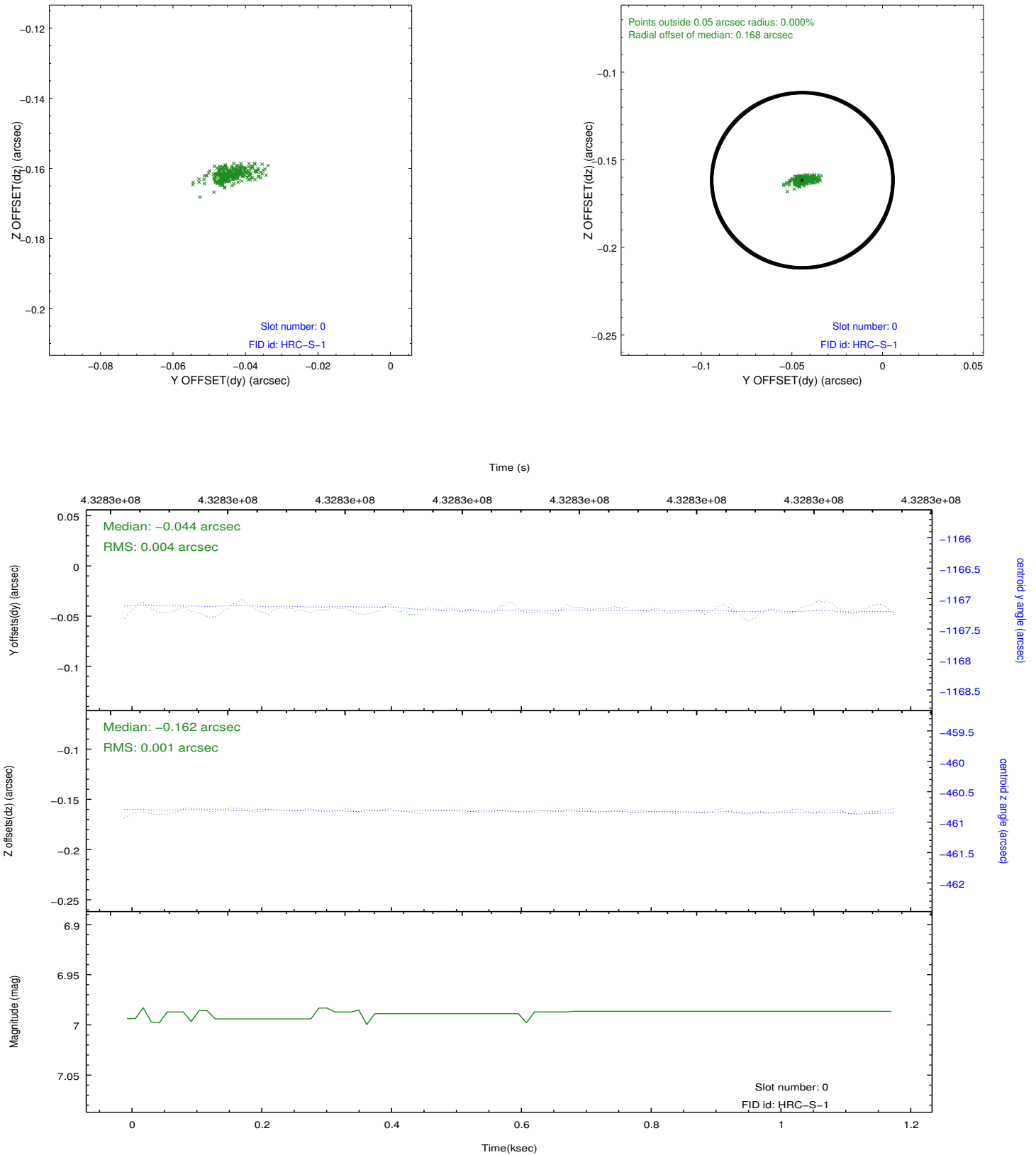


2.4.5 Slot 7

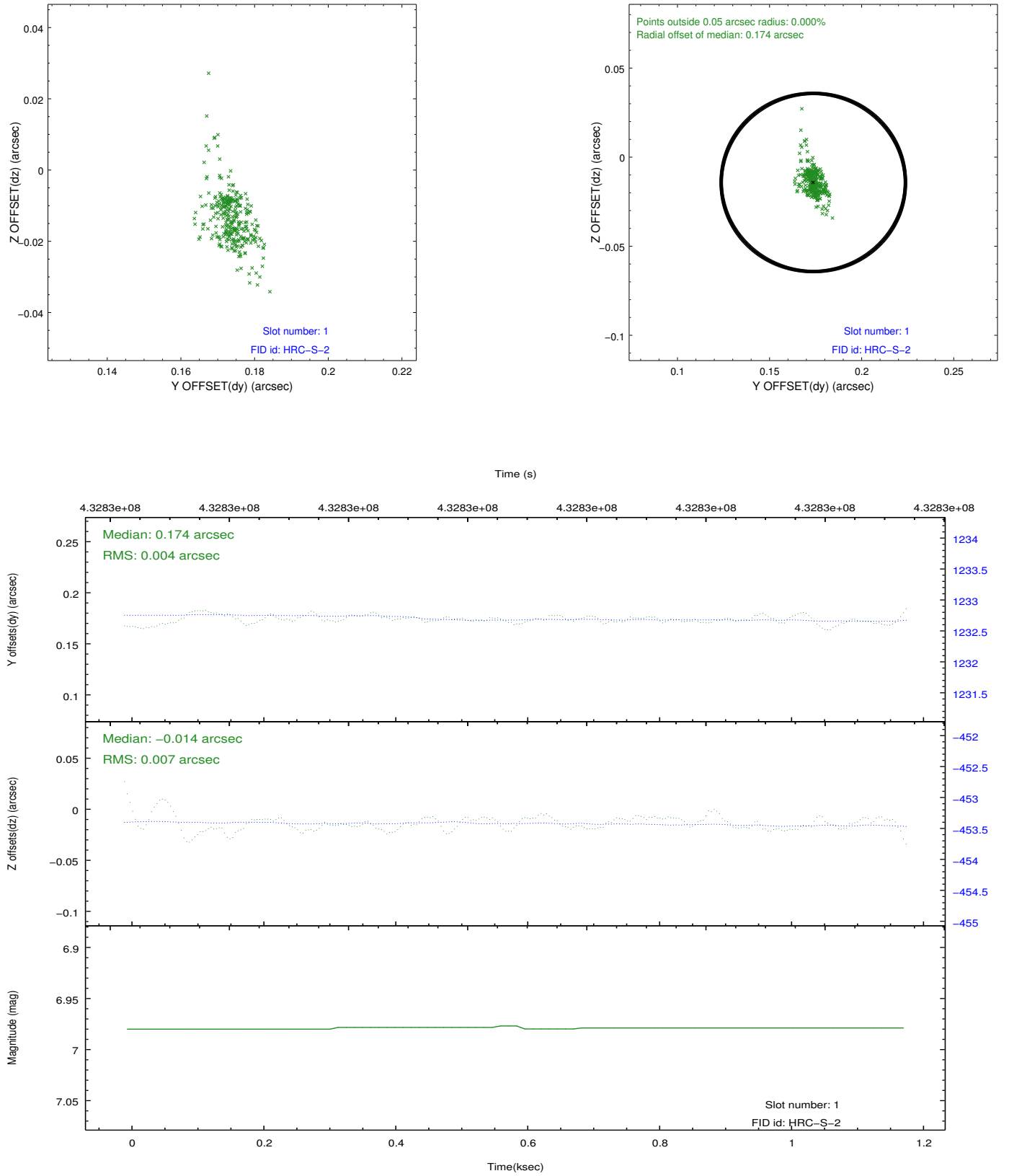


2.5 FID Slots

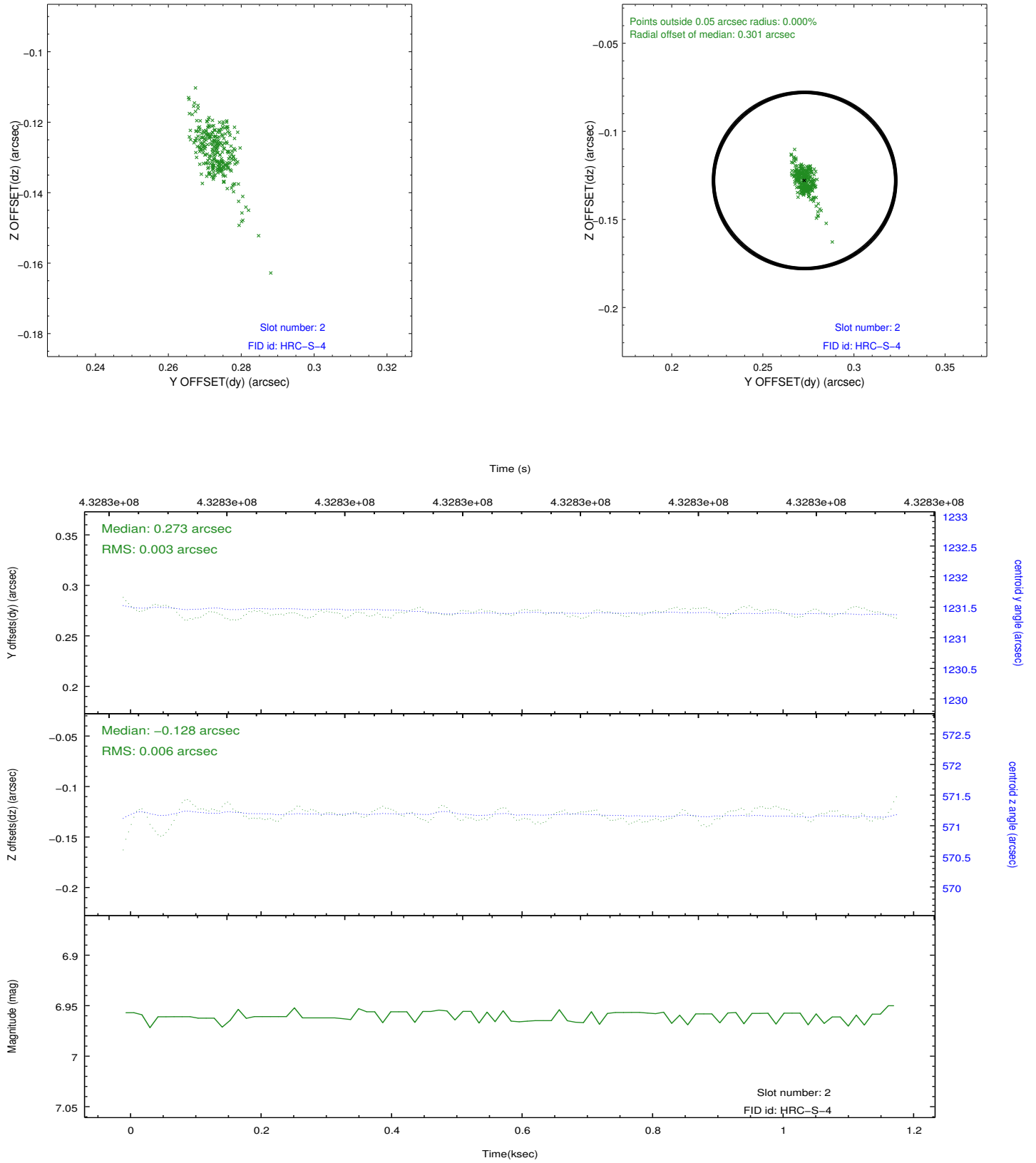
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.08.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1554313105941 |

A.2 Comments