

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 5927 - L2 Version 4
Chandra X-Ray Center

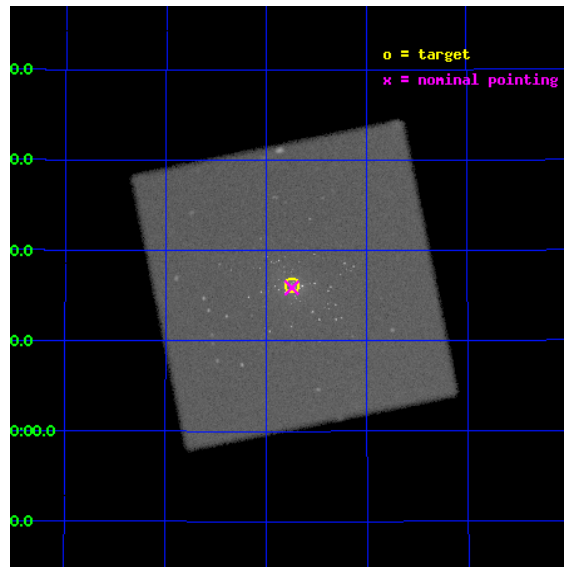
L2 Processing Date : Dec 16 2012

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1 Front

| | | |
|-----------|---|---------------------------------------|
| seq_num | 600446 | Sequence number |
| obs_id | 5927 | Observation id |
| title | M31* - The Nearest Extra-galactic SuperMassive Black Hole | Proposal |
| observer | Dr. Michael Garcia | Principal investigator |
| object | M31* | Source name |
| ra_targ | 10.685 | Observer's specified target RA [deg] |
| dec_targ | 41.268972 | Observer's specified target Dec [deg] |
| ra_nom | 10.686069437454 | Nominal RA [deg] |
| dec_nom | 41.264881824792 | Nominal Dec [deg] |
| roll_nom | 303.50381141314 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 27188.382479459 | [s] |
| livedtime | 26999.89238197 | Ontime multiplied by DTCOR |
| l2events | 1071157 | Number of level 2 events |

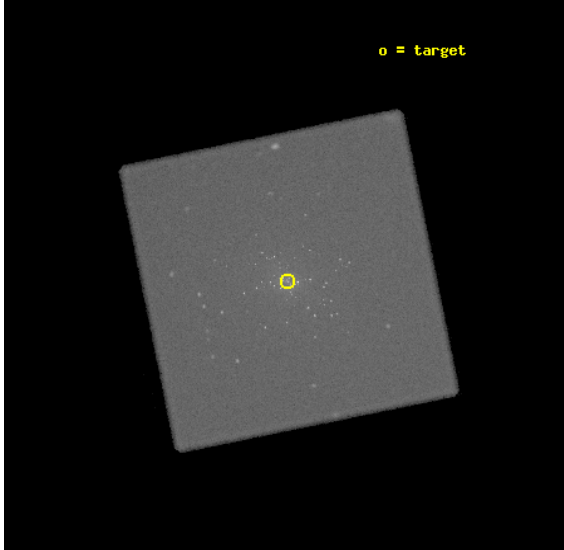


2 OBI

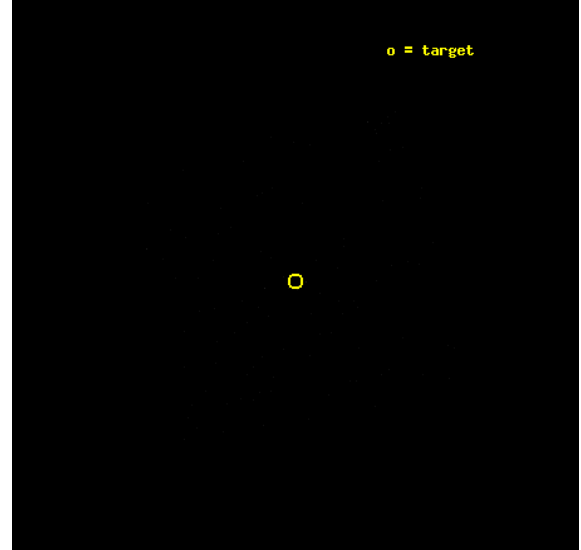
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 27000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.5.1 | Processing system revision | ontime | 27188.382479459 | [s] |
| caldbver | 4.5.5 | | l1events | 1606301 | Number of level 1 events |
| date | 2012-12-16T13:17:22 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

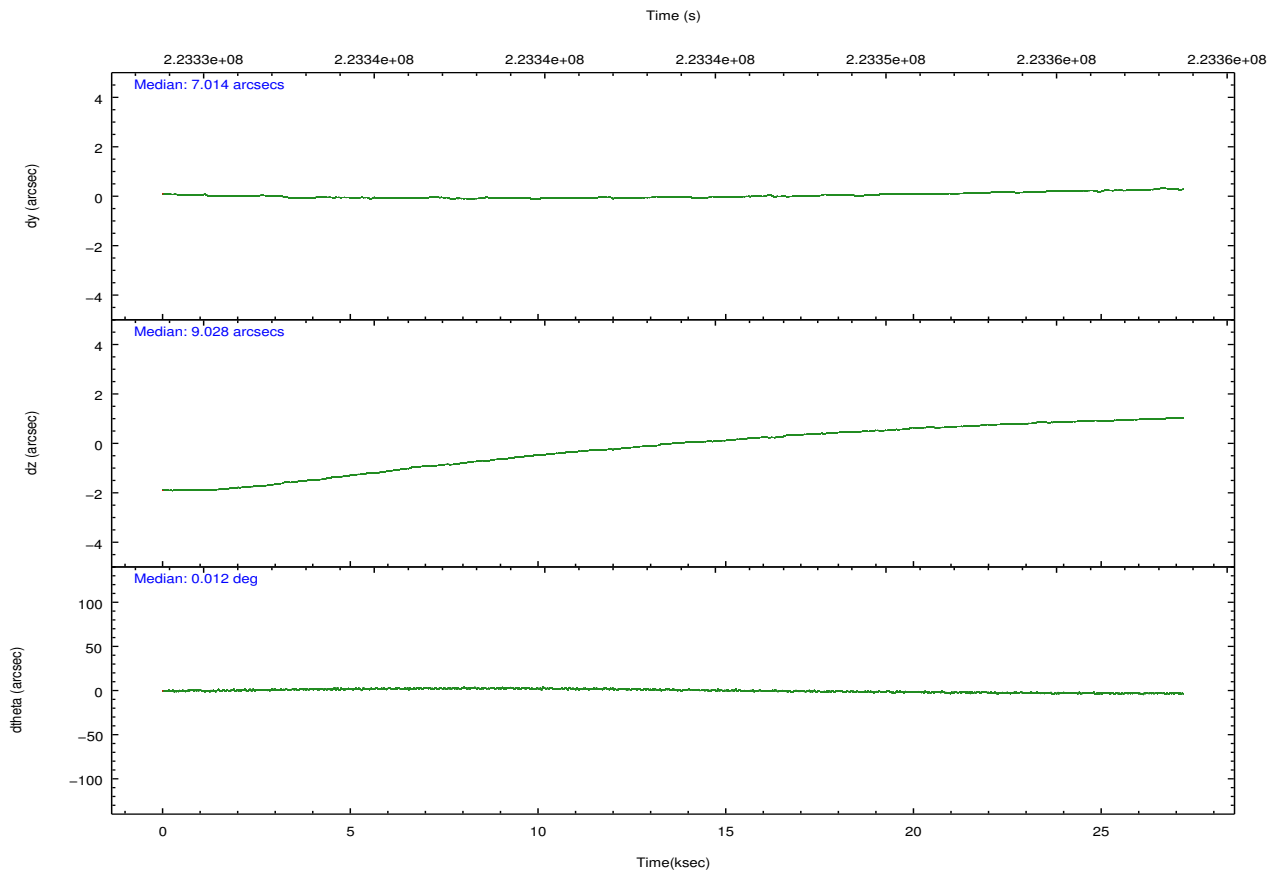
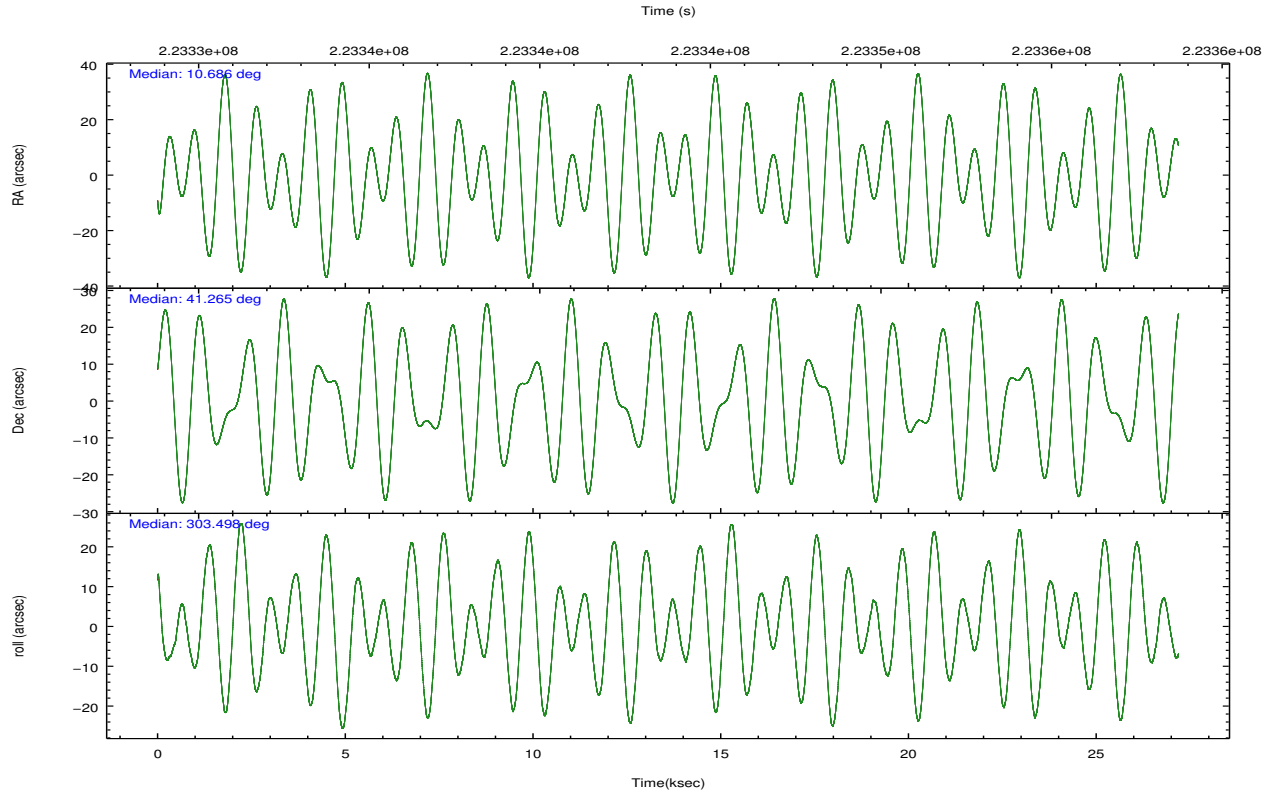
Level 1 Events

| | segment 0 |
|-----------------|----------------------|
| level 1 events | 1606301 |
| rejected events | 51148 |
| rejected % | 3% |

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 | 10.653396 | 10.68606943745371 | | | |
| [deg] Pointing Dec | 41.276393 | 41.26488182479181 | | | |
| [deg] Pointing Roll | 303.620850 | 303.5038114131418 | | | |
| [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) | 223330352.184000 | 223329287.23296 | | | |
| Observation start date | 2005-01-28T20:11:28 | 2005-01-28T19:54:47 | | | |
| [s] Observation end time (MET) | 223357352.184000 | 223358183.00926 | | | |
| Observation end date | 2005-01-29T03:41:28 | 2005-01-29T03:56:23 | | | |

2.3 Aspect

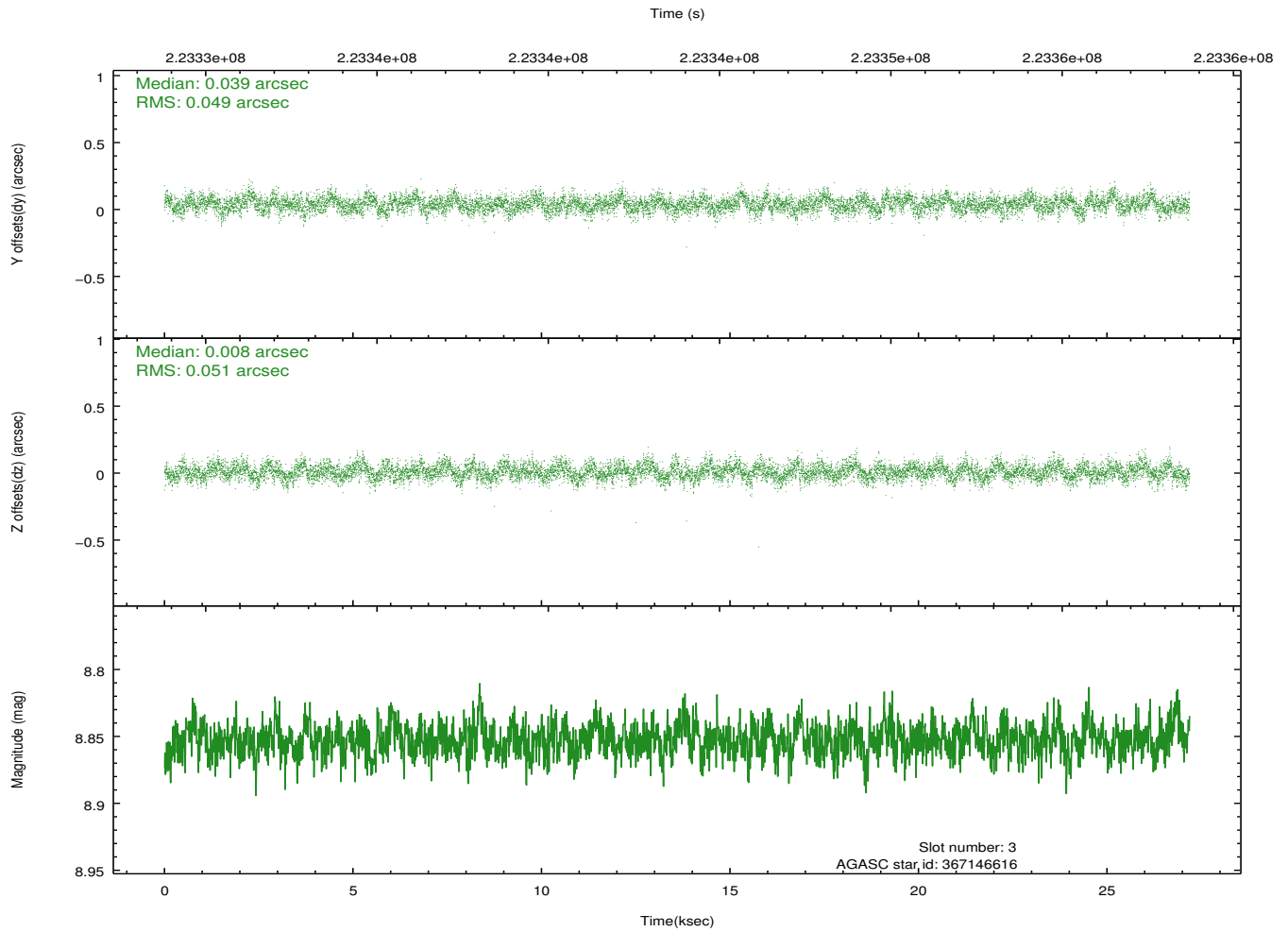
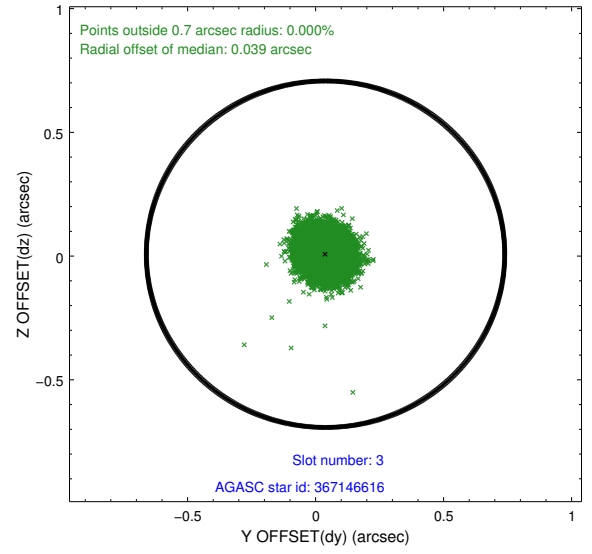
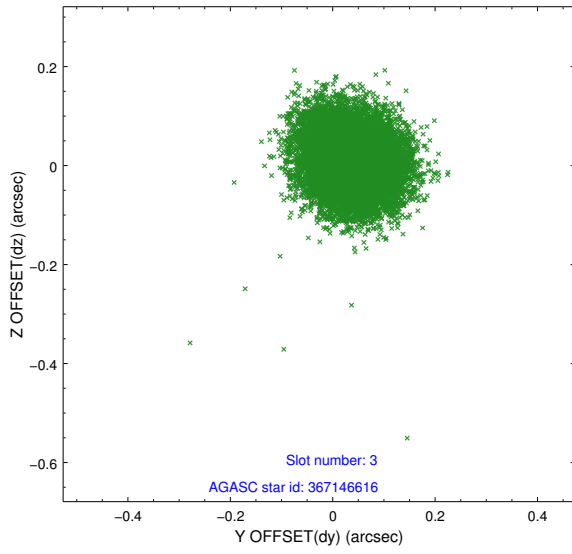


Slot Statistics

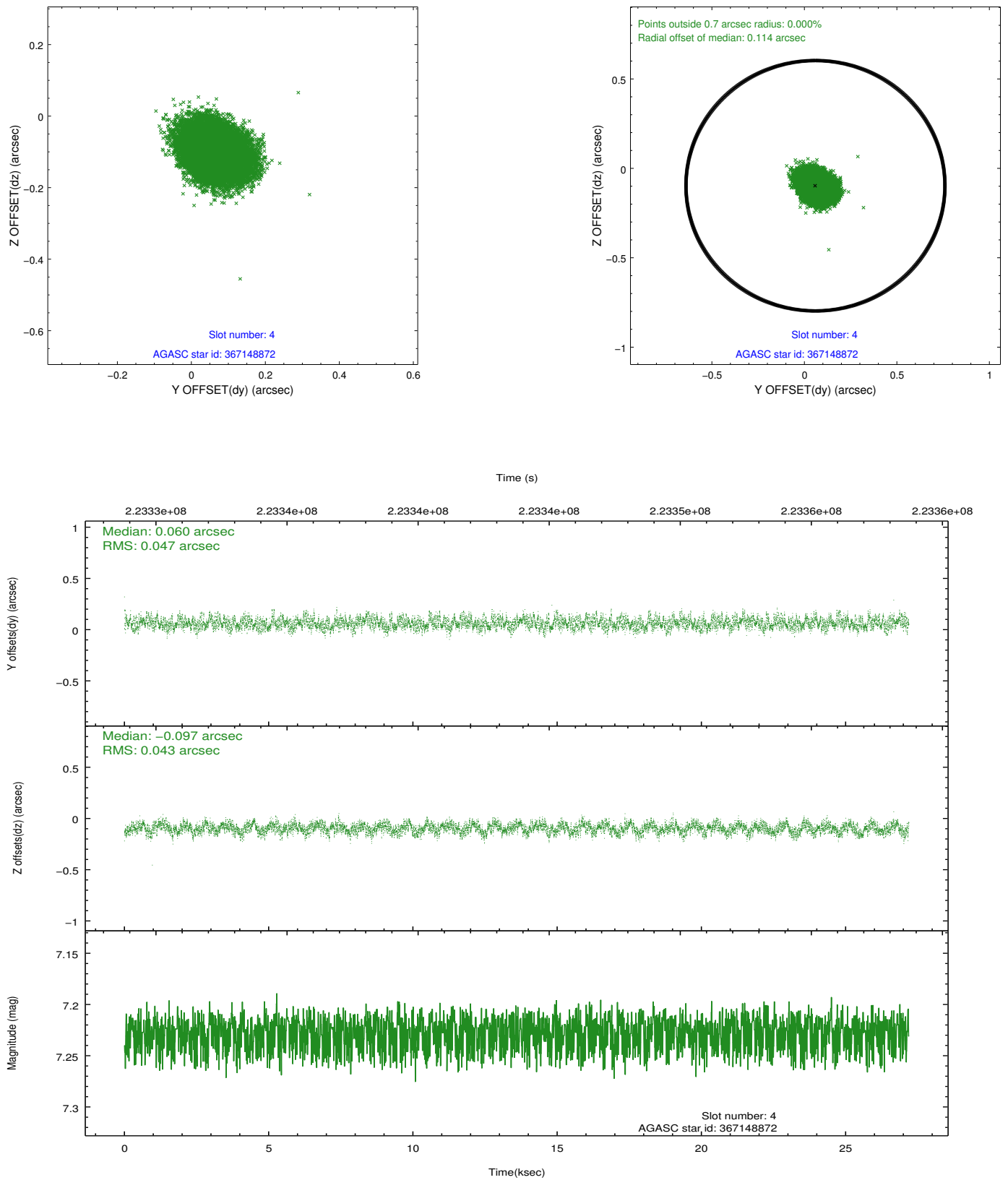
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 7.00 | 6632 | -0.014 | -0.024 | 0.023 | 0.032 | 0.000000 | 0.000000 | -762.74 | -1296.68 |
| 1 | FID | HRC-I-2 | 7.03 | 6632 | 0.098 | -0.057 | 0.018 | 0.026 | 0.000000 | 0.000000 | 849.89 | -1298.59 |
| 2 | FID | HRC-I-4 | 7.03 | 6632 | 0.034 | -0.012 | 0.016 | 0.022 | 0.000000 | 0.000000 | 1280.39 | 1005.16 |
| 3 | GUIDE | 367146616 | 8.85 | 13251 | 0.039 | 0.008 | 0.075 | 0.121 | 11.418645 | 41.190163 | 1398.91 | 1559.66 |
| 4 | GUIDE | 367148872 | 7.23 | 13264 | 0.060 | -0.097 | 0.069 | 0.108 | 10.505940 | 40.688258 | 1540.77 | -1507.43 |
| 5 | GUIDE | 367657896 | 9.02 | 13258 | -0.002 | 0.052 | 0.082 | 0.135 | 11.197765 | 41.313576 | 699.95 | 1302.41 |
| 6 | GUIDE | 367663272 | 9.29 | 13237 | -0.088 | 0.014 | 0.091 | 0.153 | 10.656279 | 41.699429 | -1263.82 | 849.23 |
| 7 | GUIDE | 367674552 | 8.85 | 13251 | -0.012 | 0.024 | 0.083 | 0.137 | 11.016238 | 41.570845 | -343.25 | 1401.90 |

2.4 Star Slots

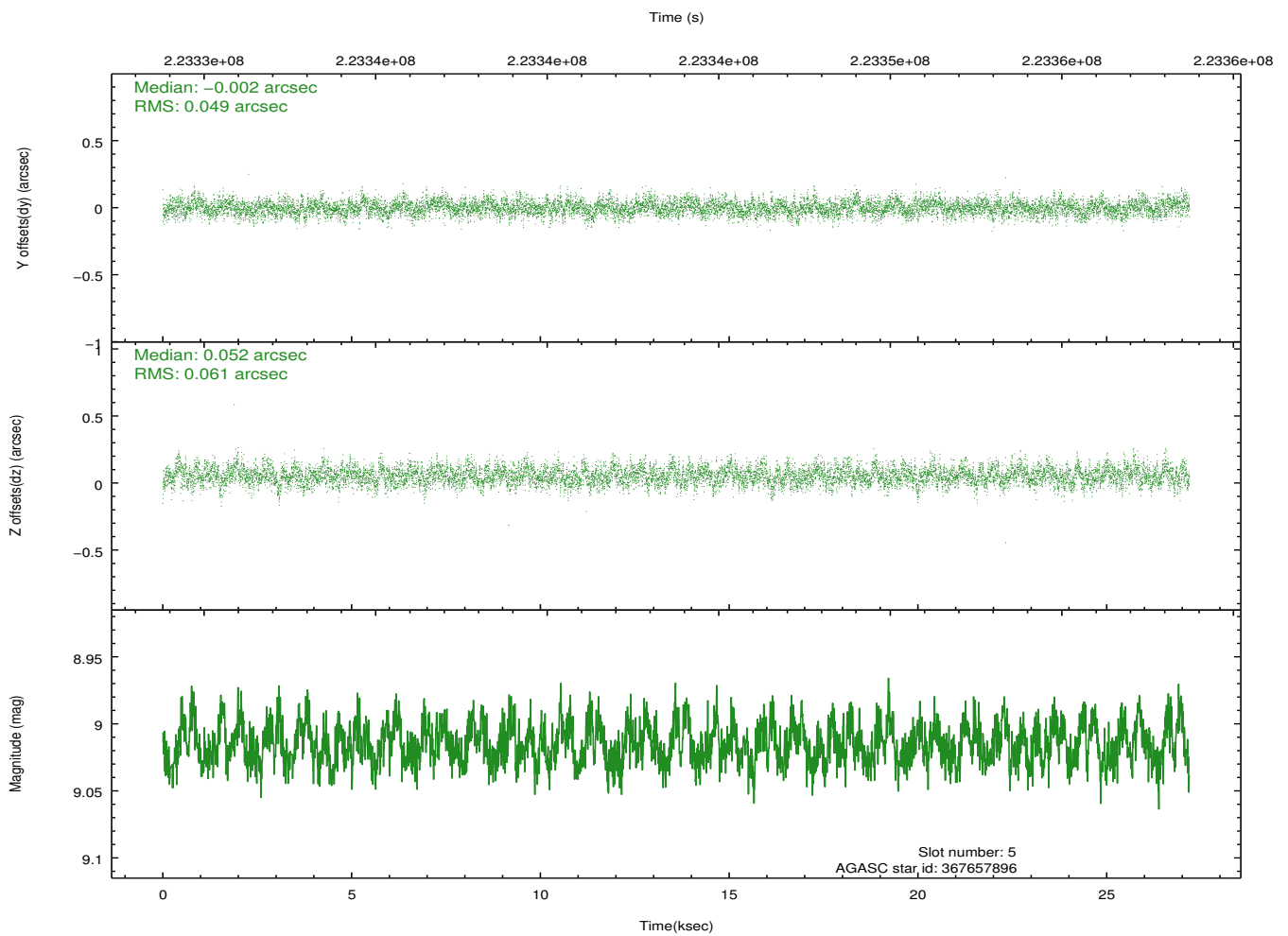
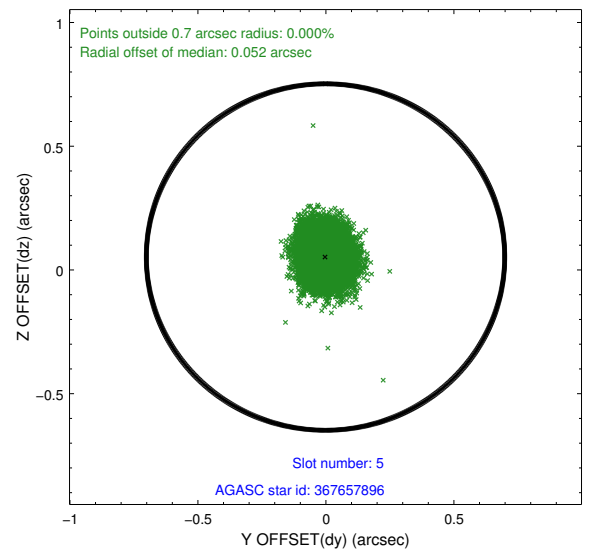
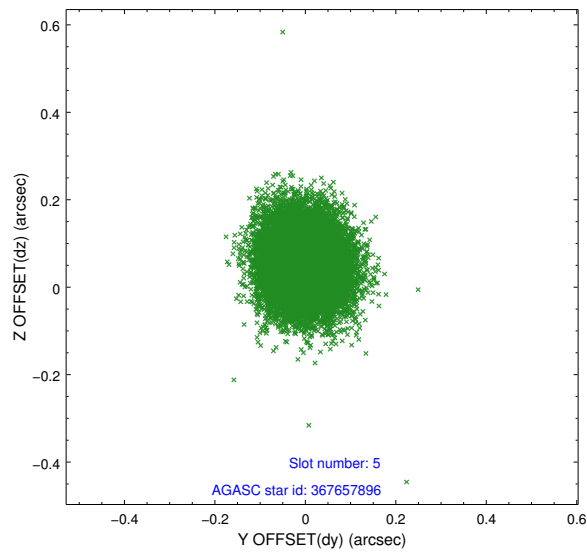
2.4.1 Slot 3



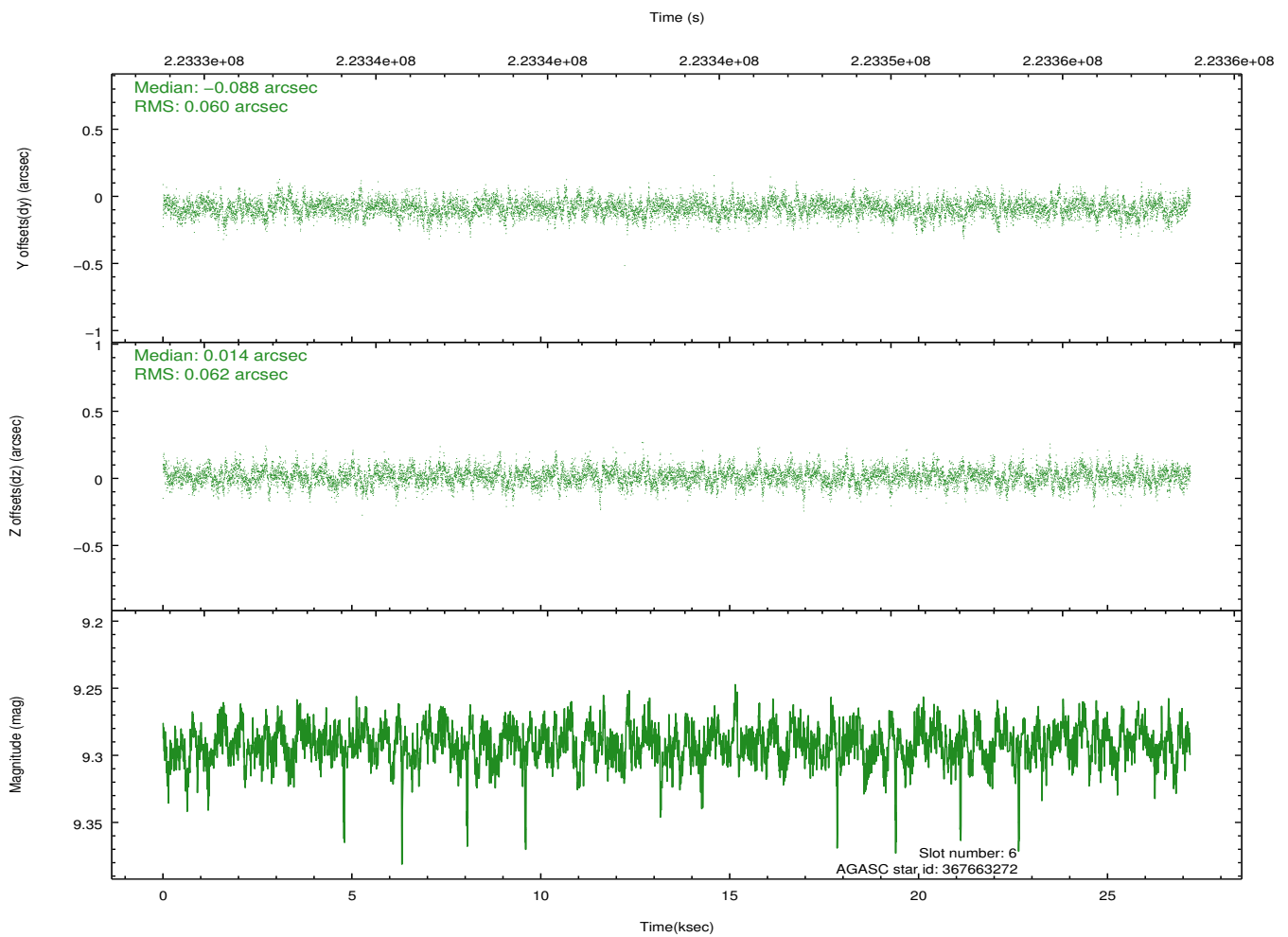
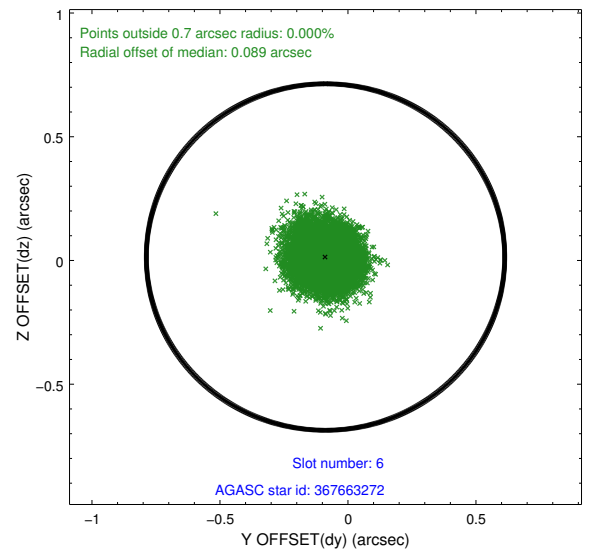
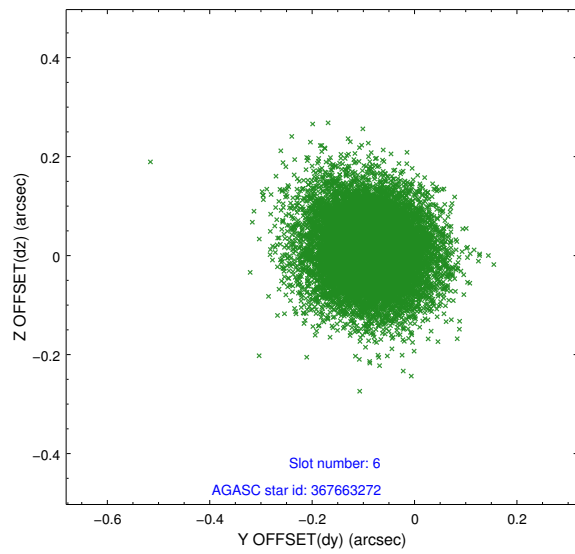
2.4.2 Slot 4



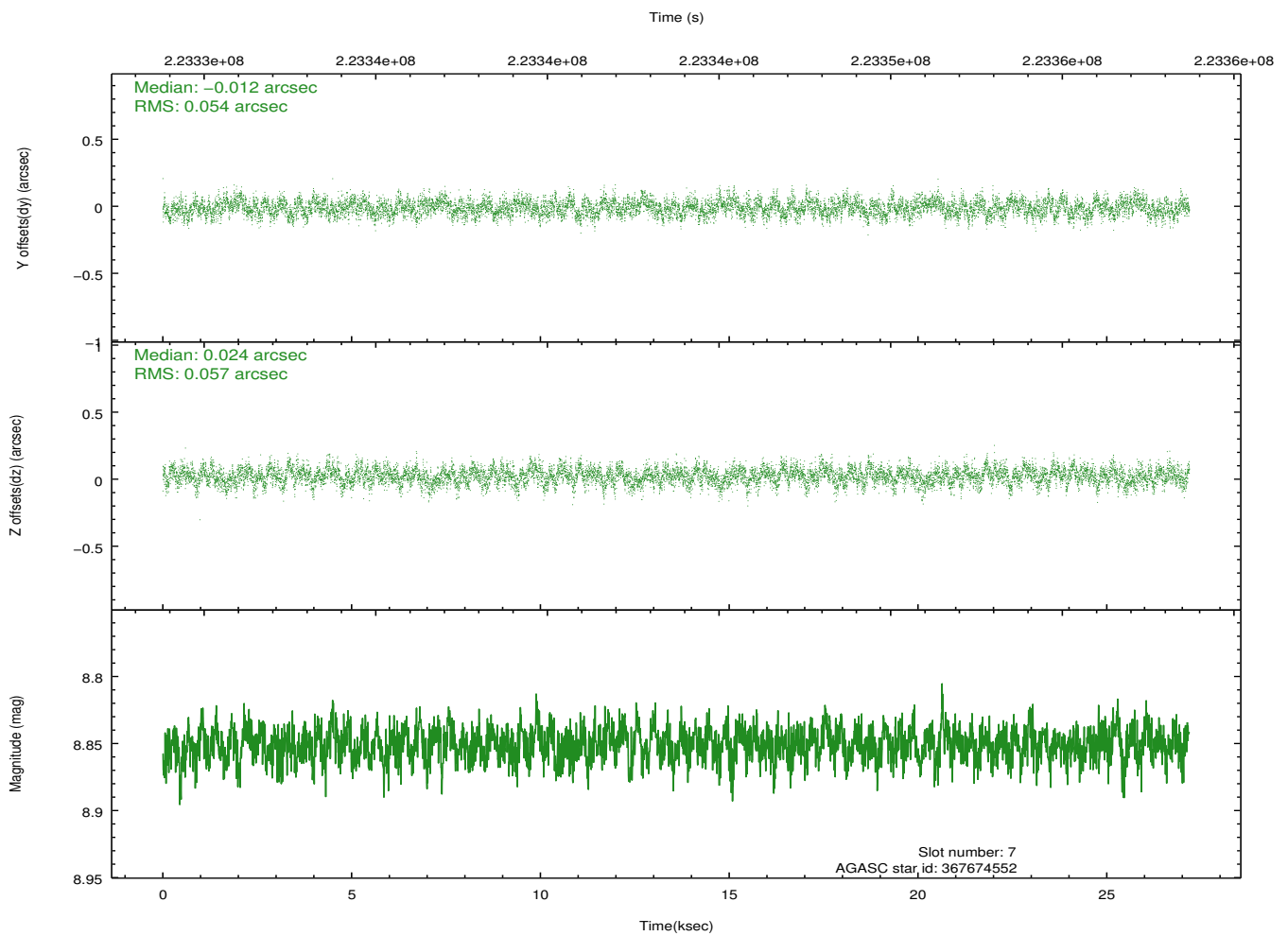
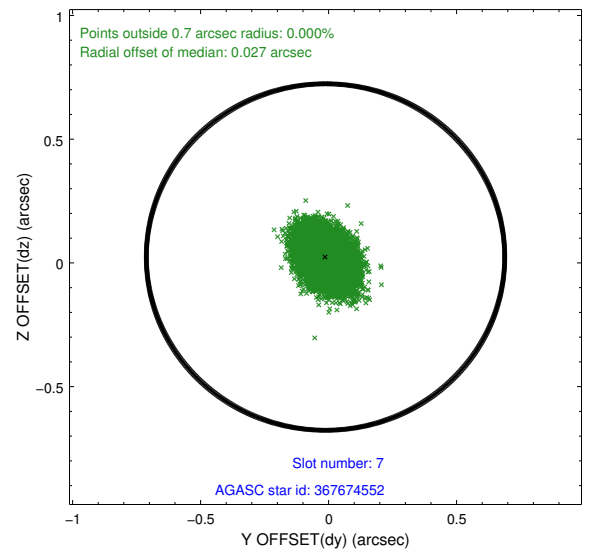
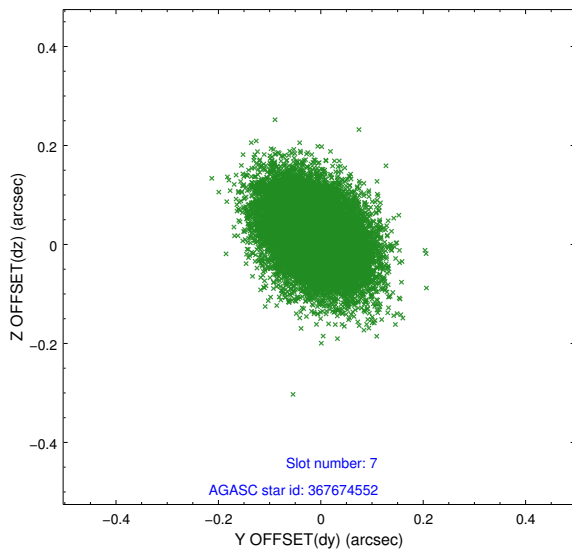
2.4.3 Slot 5



2.4.4 Slot 6

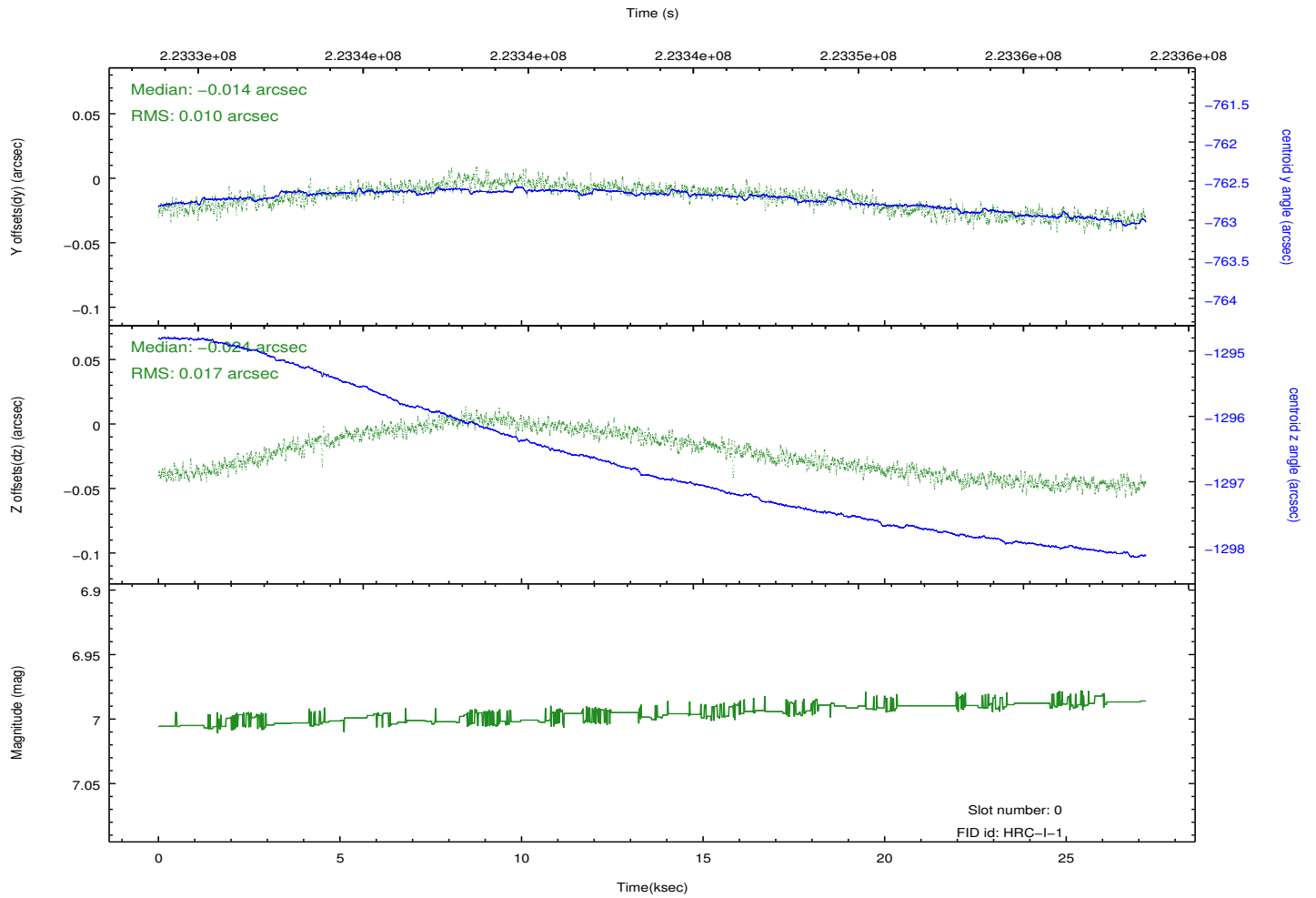
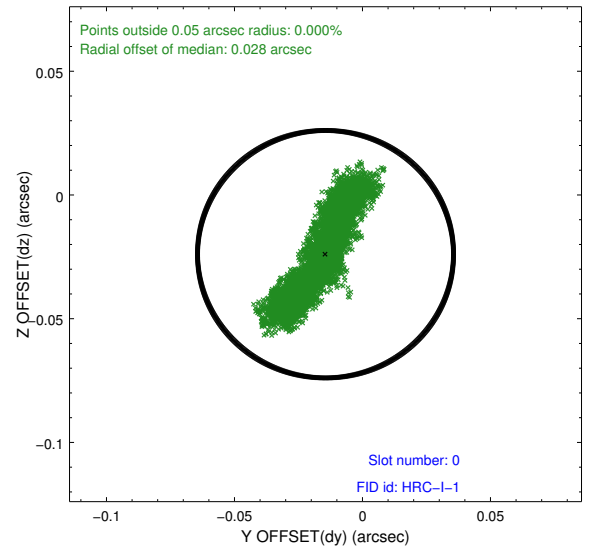
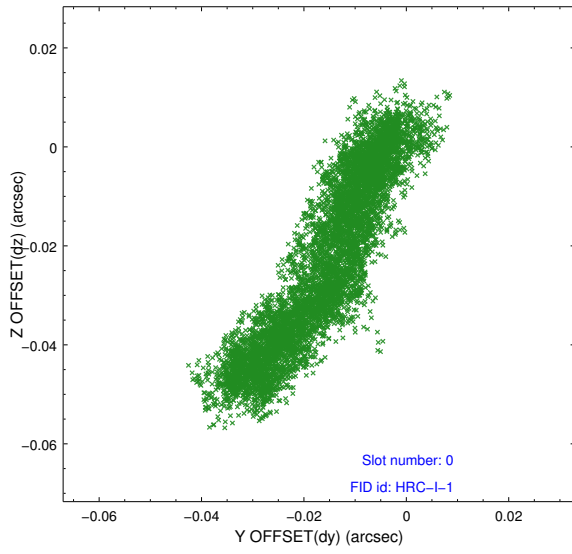


2.4.5 Slot 7

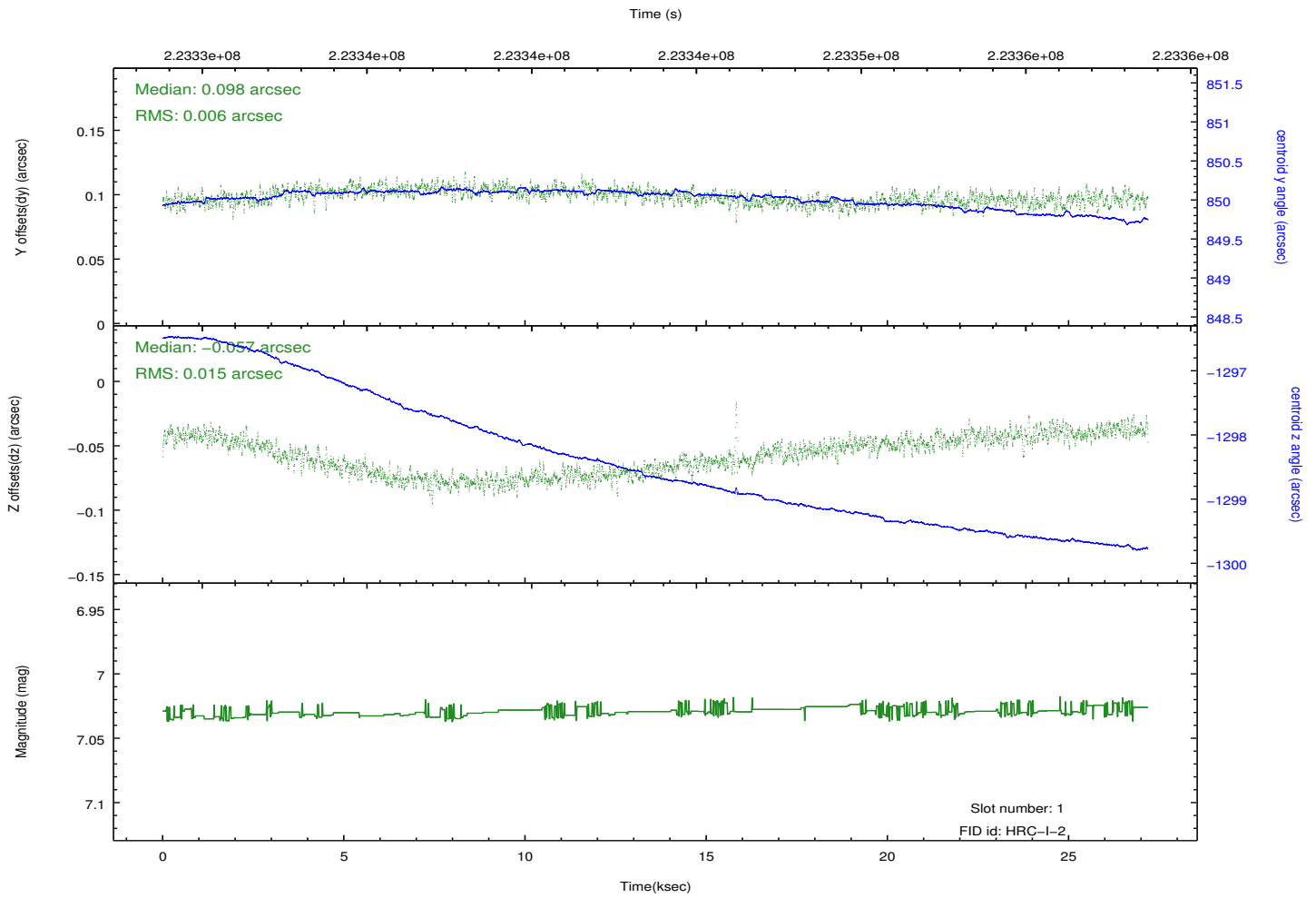
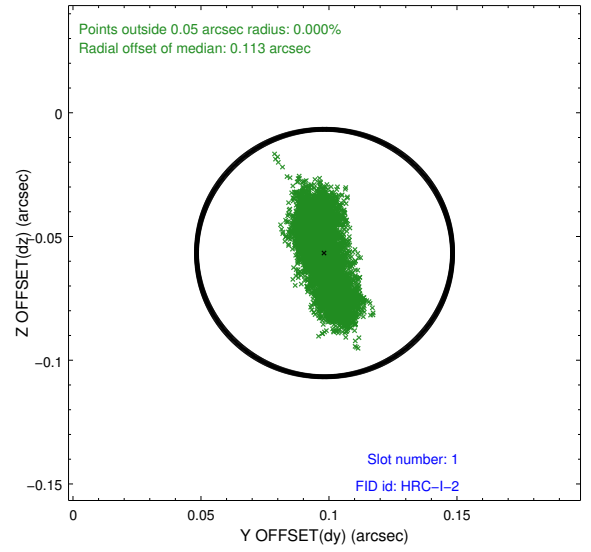
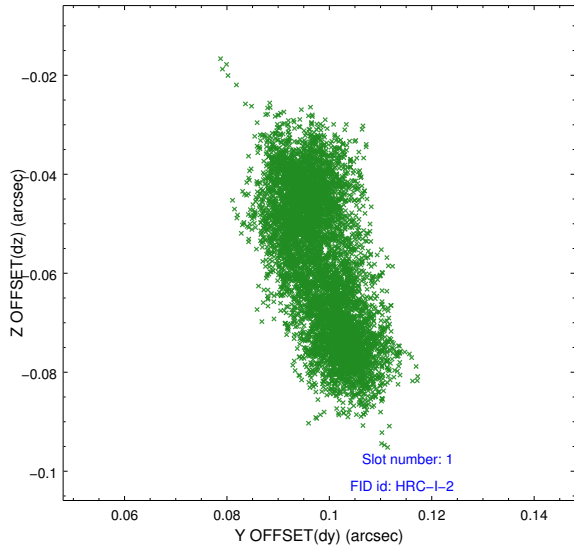


2.5 FID Slots

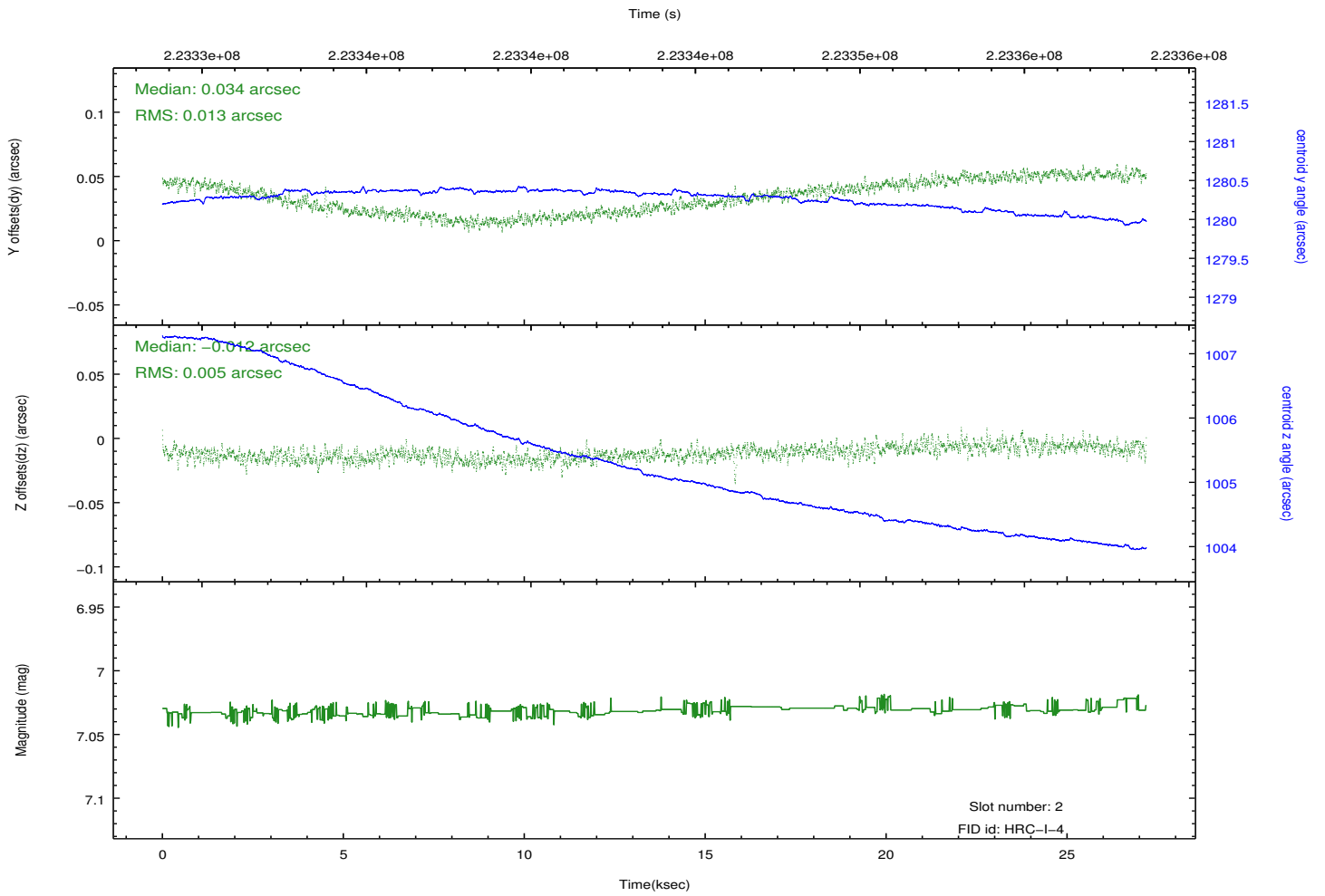
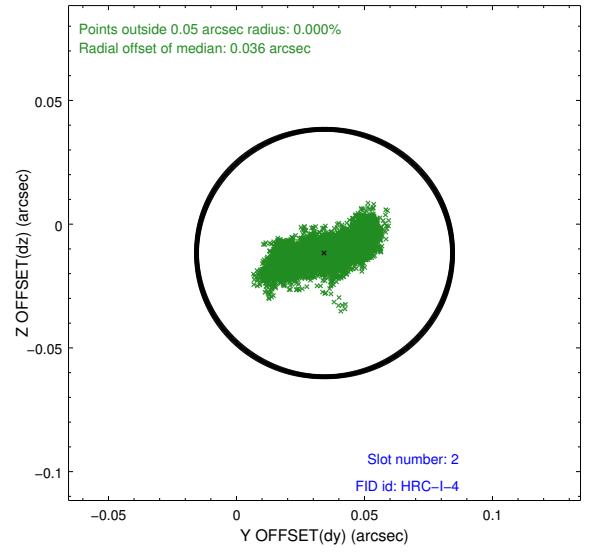
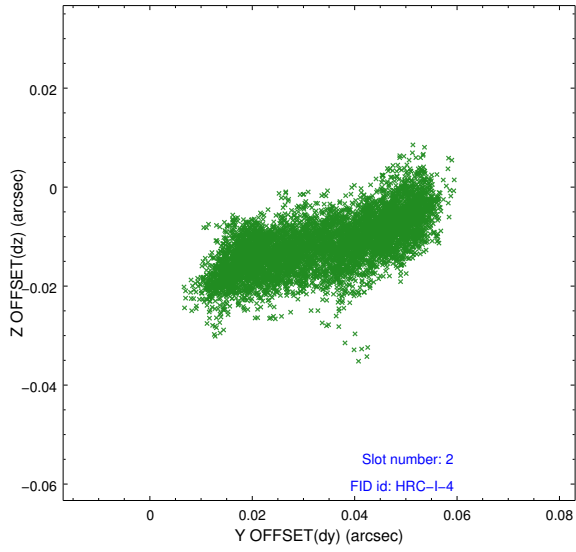
2.5.1 Slot 0



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) | 2013.01.09 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 27.18838 |

A.2 Comments

Joint Proposal: NRAO