

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7702 - L2 Version 3
Chandra X-Ray Center

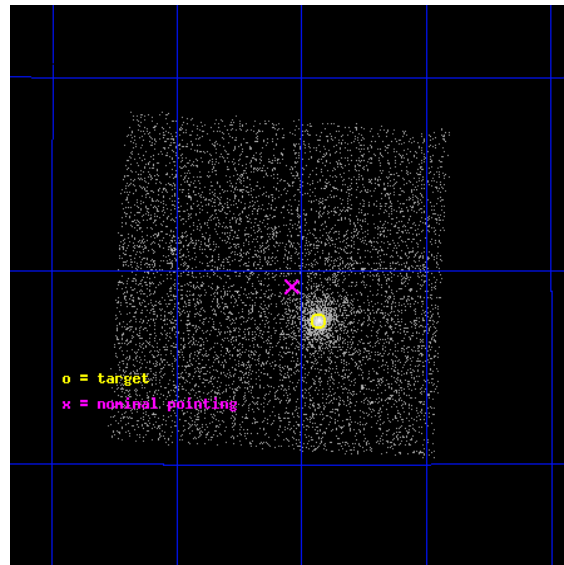
L2 Processing Date : Apr 16 2012

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1 Front

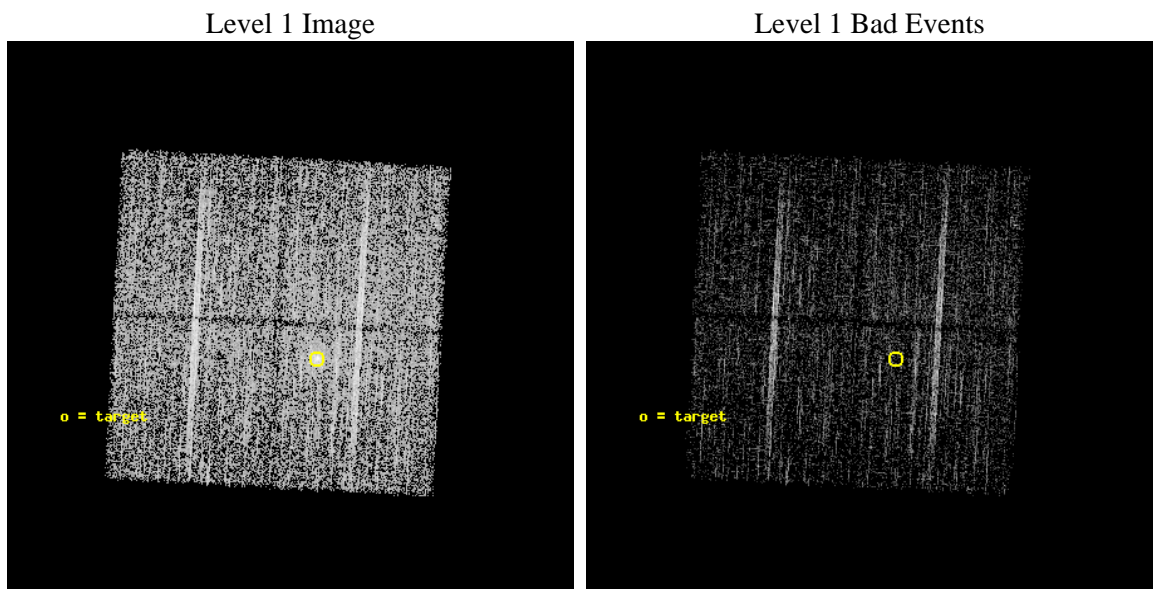
| | | |
|----------|--|---|
| seq_num | 701370 | Sequence number |
| obs_id | 7702 | Observation id |
| title | Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies | P |
| observer | Professor Gordon Garmire | Principal investigator |
| object | MS0839.9+2938 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 130.732917 | Observer's specified target RA [deg] |
| dec_targ | 29.4575 | Observer's specified target Dec [deg] |
| ra_nom | 130.75994254263 | Nominal RA [deg] |
| dec_nom | 29.486399839555 | Nominal Dec [deg] |
| roll_nom | 93.102430709636 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4841.2348674536 | Sum of GTIs [s] |
| livetime | 4777.980569845 | Livetime [s] |
| ontime0 | 4841.1117474437 | Sum of GTIs [s] |
| ontime1 | 4841.152787447 | Sum of GTIs [s] |
| ontime2 | 4838.0528271794 | Sum of GTIs [s] |
| ontime3 | 4841.2348674536 | Sum of GTIs [s] |
| l2events | 9779 | Number of level 2 events |



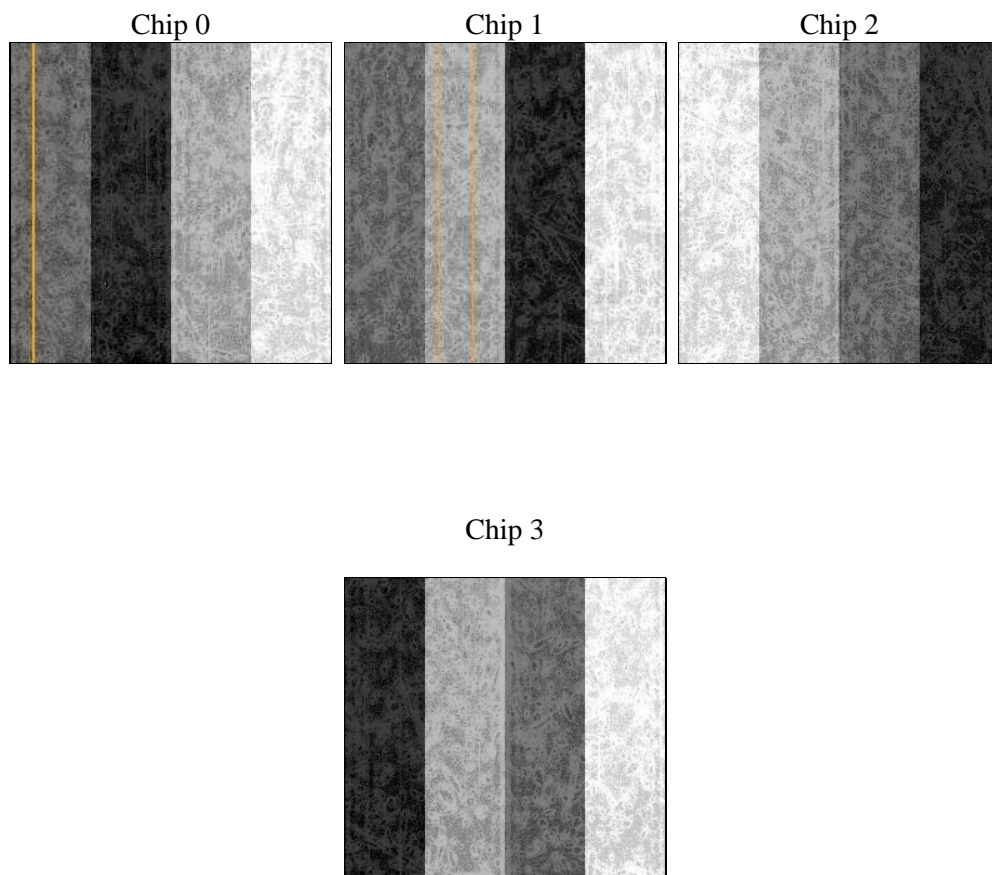
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 4800.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3.1 | Processing system revision | ontime | 4841.2348674536 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 4841.1117474437 | Sum of GTIs [s] |
| date | 2012-04-16T04:25:26 | Date and time of file creation | ontime1 | 4841.152787447 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 4838.0528271794 | Sum of GTIs [s] |
| | | | ontime3 | 4841.2348674536 | Sum of GTIs [s] |
| | | | l1events | 118824 | Number of level 1 events |

2.1.4 Events

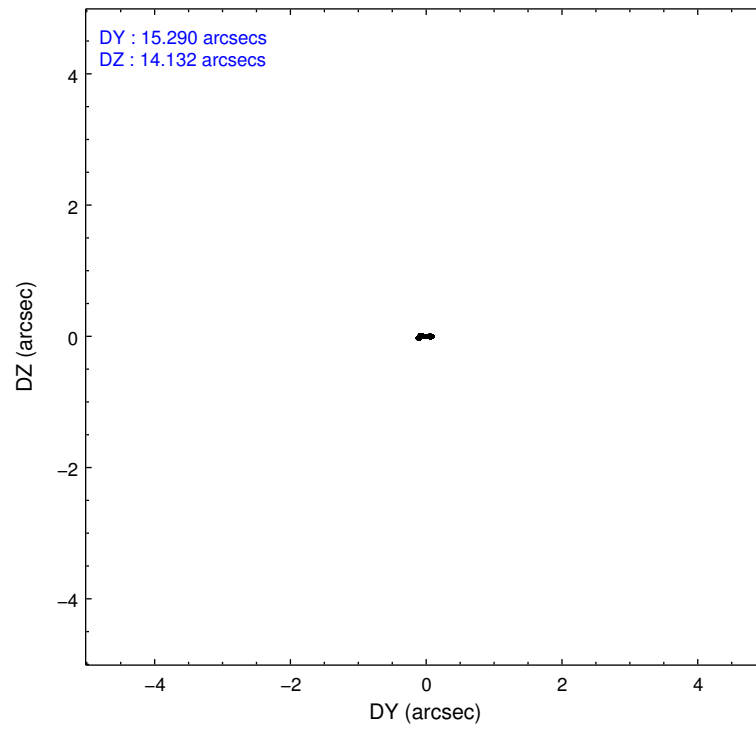
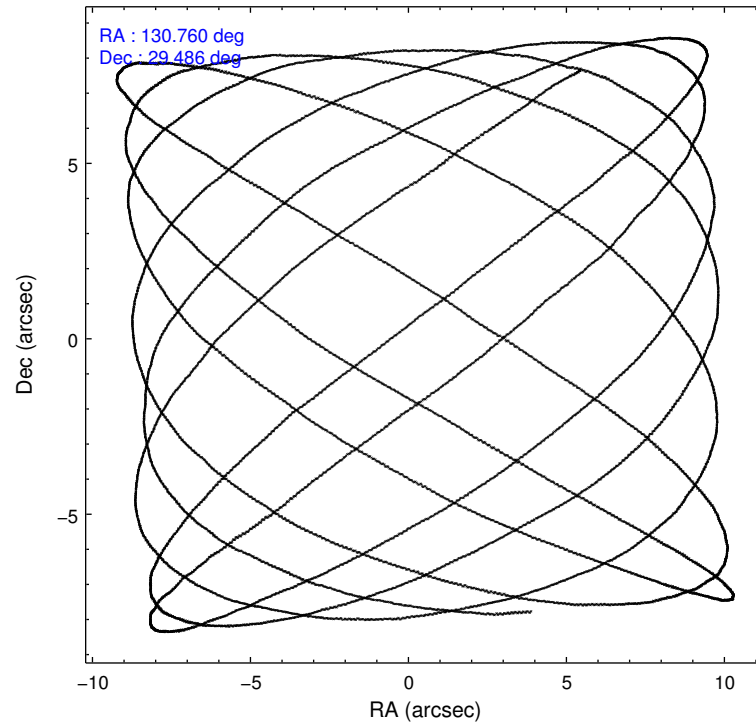
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 28103 | 27677 | 31306 | 31738 |
| rejected events | 25425 | 24894 | 28778 | 27672 |
| rejected % | 90% | 89% | 91% | 87% |

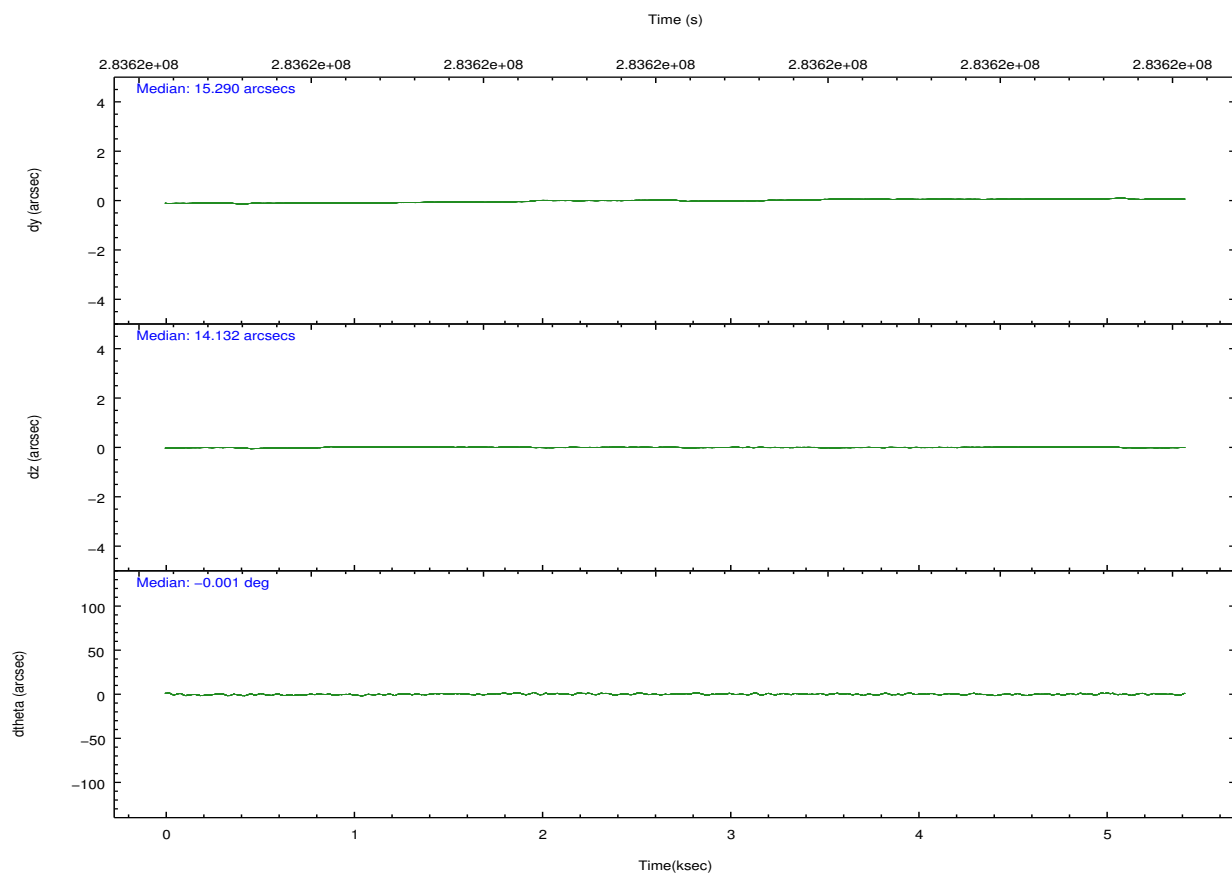
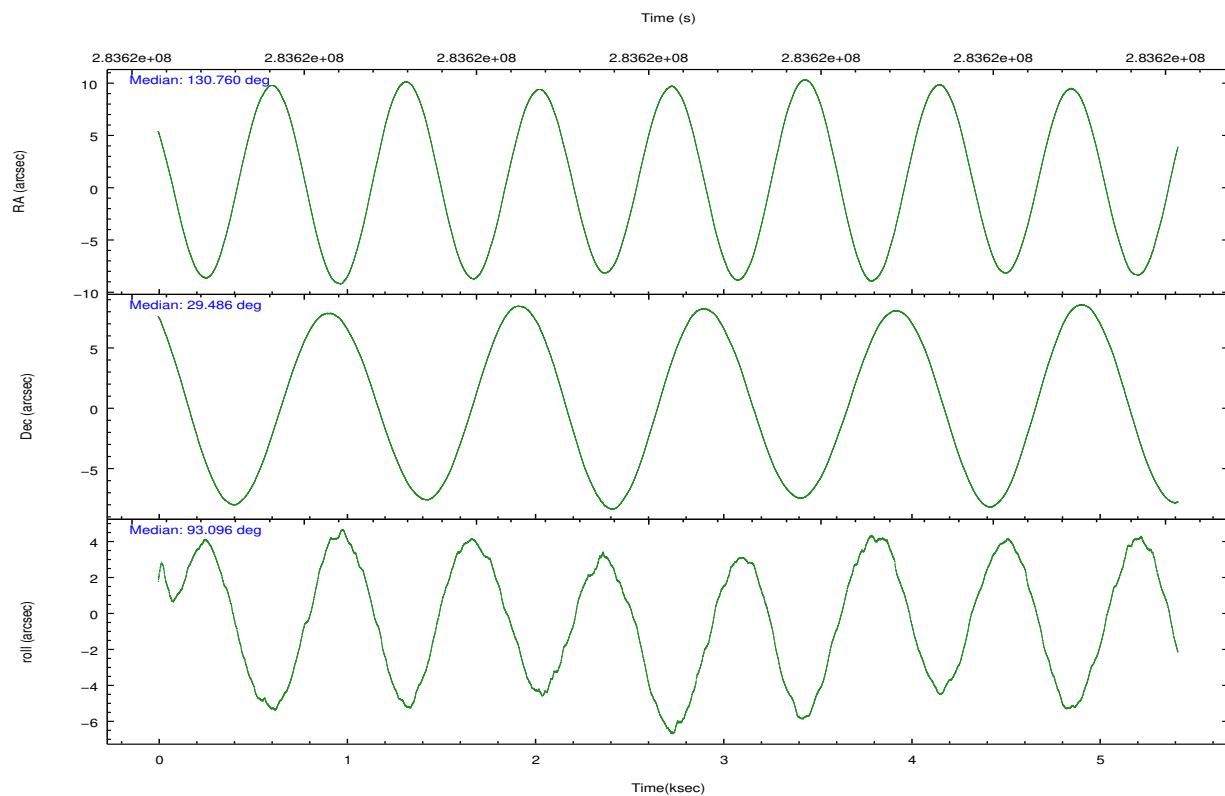
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 1072 | 1075 | 1017 | 2382 |
| | 3% | 3% | 3% | 7% |
| grade 1 events | 14 | 15 | 15 | 30 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 624 | 585 | 624 | 625 |
| | 2% | 2% | 1% | 1% |
| grade 3 events | 326 | 331 | 241 | 339 |
| | 1% | 1% | 0% | 1% |
| grade 4 events | 269 | 328 | 272 | 310 |
| | 0% | 1% | 0% | 0% |
| grade 5 events | 516 | 588 | 478 | 653 |
| | 1% | 2% | 1% | 2% |
| grade 6 events | 390 | 468 | 377 | 414 |
| | 1% | 1% | 1% | 1% |
| grade 7 events | 24892 | 24287 | 28282 | 26985 |
| | 88% | 87% | 90% | 85% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-0123 | ACIS-0123 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 130.777418 | 130.759942542631 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 29.463462 | 29.48639983955481 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 92.885140 | 93.10243070963644 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 283618023.184000 | 283616935.91211 | | | |
| Observation start date | 2006-12-27T14:45:58 | 2006-12-27T14:28:55 | | | |
| [s] Observation end time (MET) | 283622823.184000 | 283623432.87492 | | | |
| Observation end date | 2006-12-27T16:05:58 | 2006-12-27T16:17:12 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



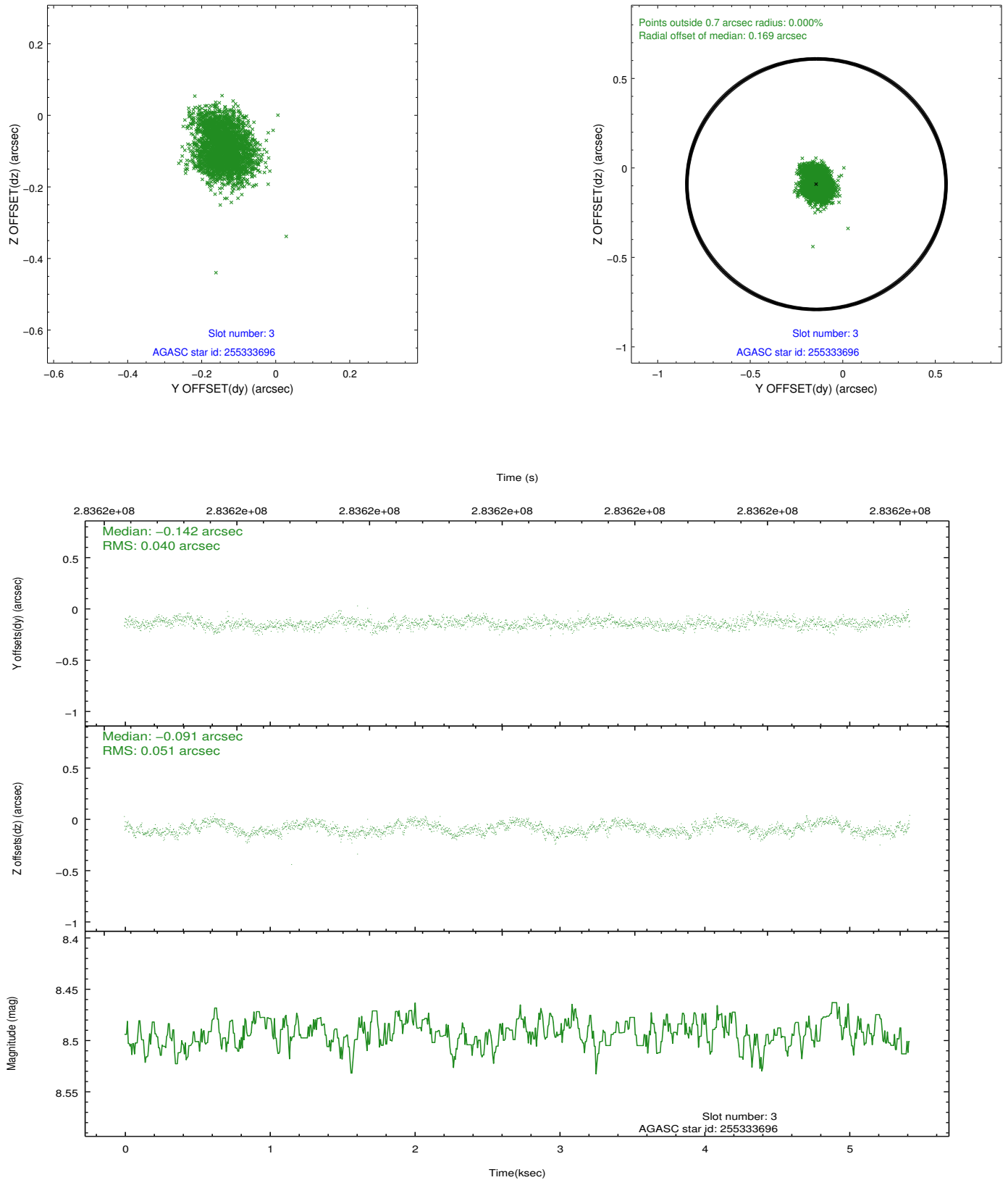


Slot Statistics

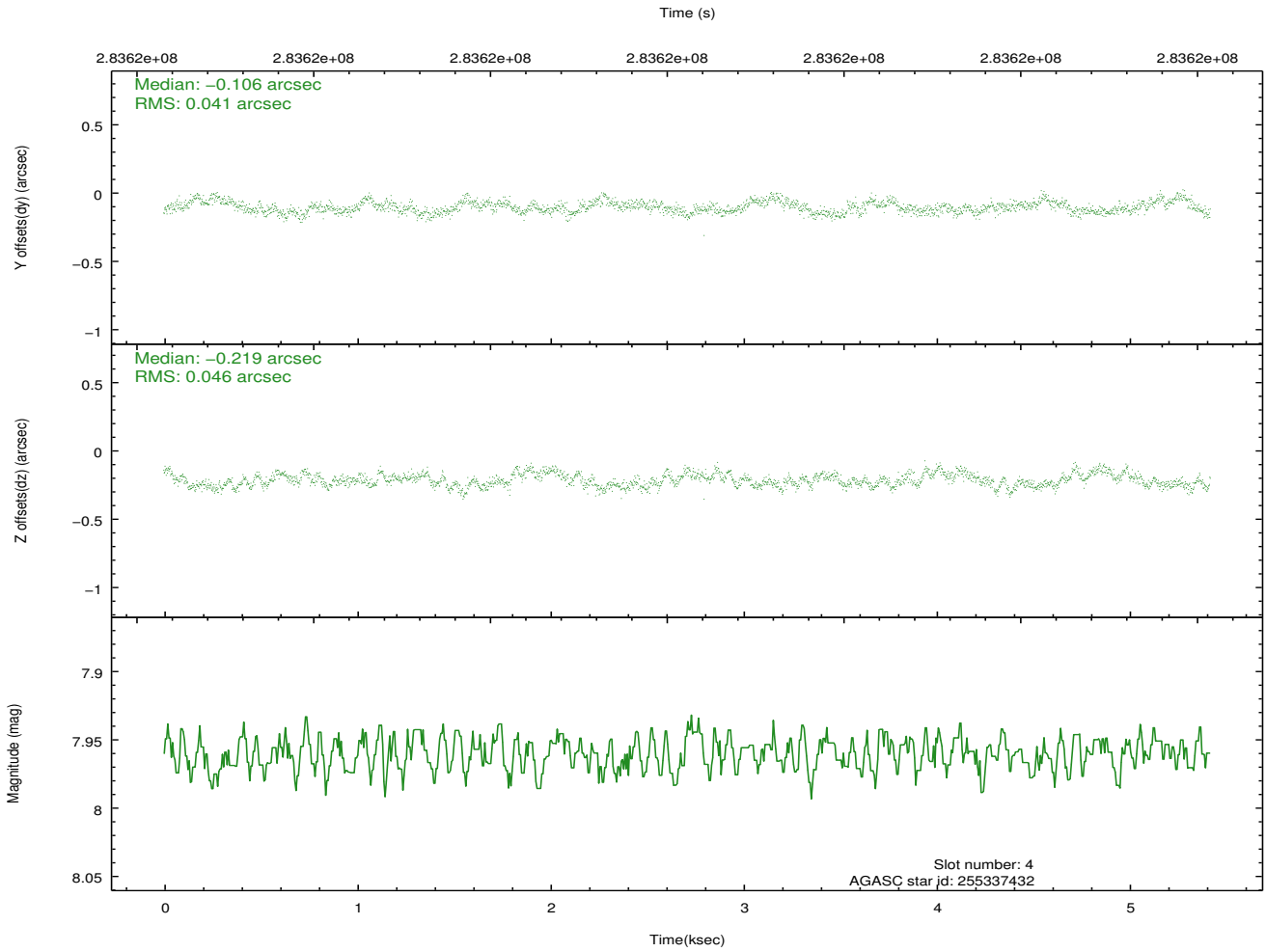
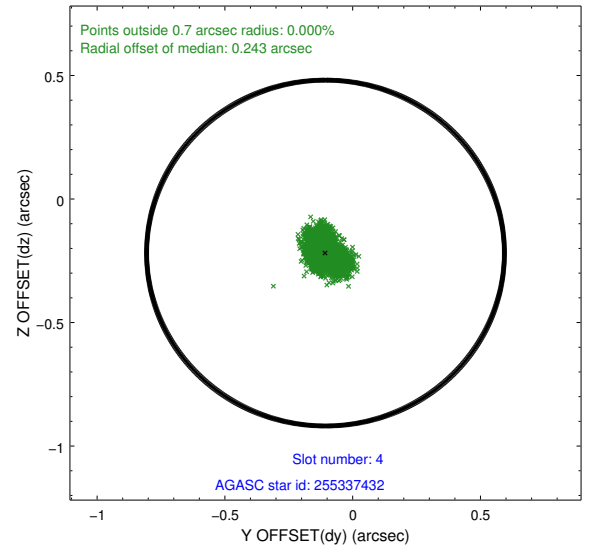
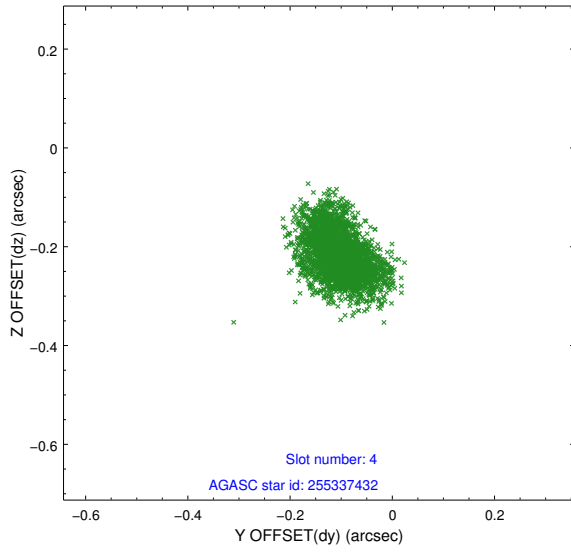
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 1322 | 0.004 | 0.069 | 0.008 | 0.013 | 0.000000 | 0.000000 | 924.16 | -837.65 |
| 1 | FID | ACIS-I-2 | 7.14 | 1322 | -0.118 | -0.072 | 0.010 | 0.016 | 0.000000 | 0.000000 | -769.43 | -844.76 |
| 2 | FID | ACIS-I-6 | 7.25 | 1322 | 0.022 | 0.070 | 0.008 | 0.016 | 0.000000 | 0.000000 | 389.35 | 1703.61 |
| 3 | GUIDE | 255333696 | 8.49 | 2645 | -0.142 | -0.091 | 0.069 | 0.108 | 130.413204 | 29.994468 | 1968.07 | 1038.16 |
| 4 | GUIDE | 255337432 | 7.96 | 2645 | -0.106 | -0.219 | 0.065 | 0.105 | 130.226540 | 29.206439 | -832.20 | 1775.14 |
| 5 | GUIDE | 255337728 | 8.79 | 2644 | 0.149 | -0.062 | 0.069 | 0.114 | 130.352714 | 28.879685 | -2029.28 | 1443.00 |
| 6 | GUIDE | 255464040 | 8.93 | 2644 | 0.062 | 0.267 | 0.089 | 0.144 | 131.534556 | 28.968726 | -1891.35 | -2292.03 |
| 7 | GUIDE | 255468496 | 9.03 | 2644 | 0.035 | 0.107 | 0.122 | 0.192 | 131.292150 | 29.669911 | 663.95 | -1647.06 |

2.4 Star Slots

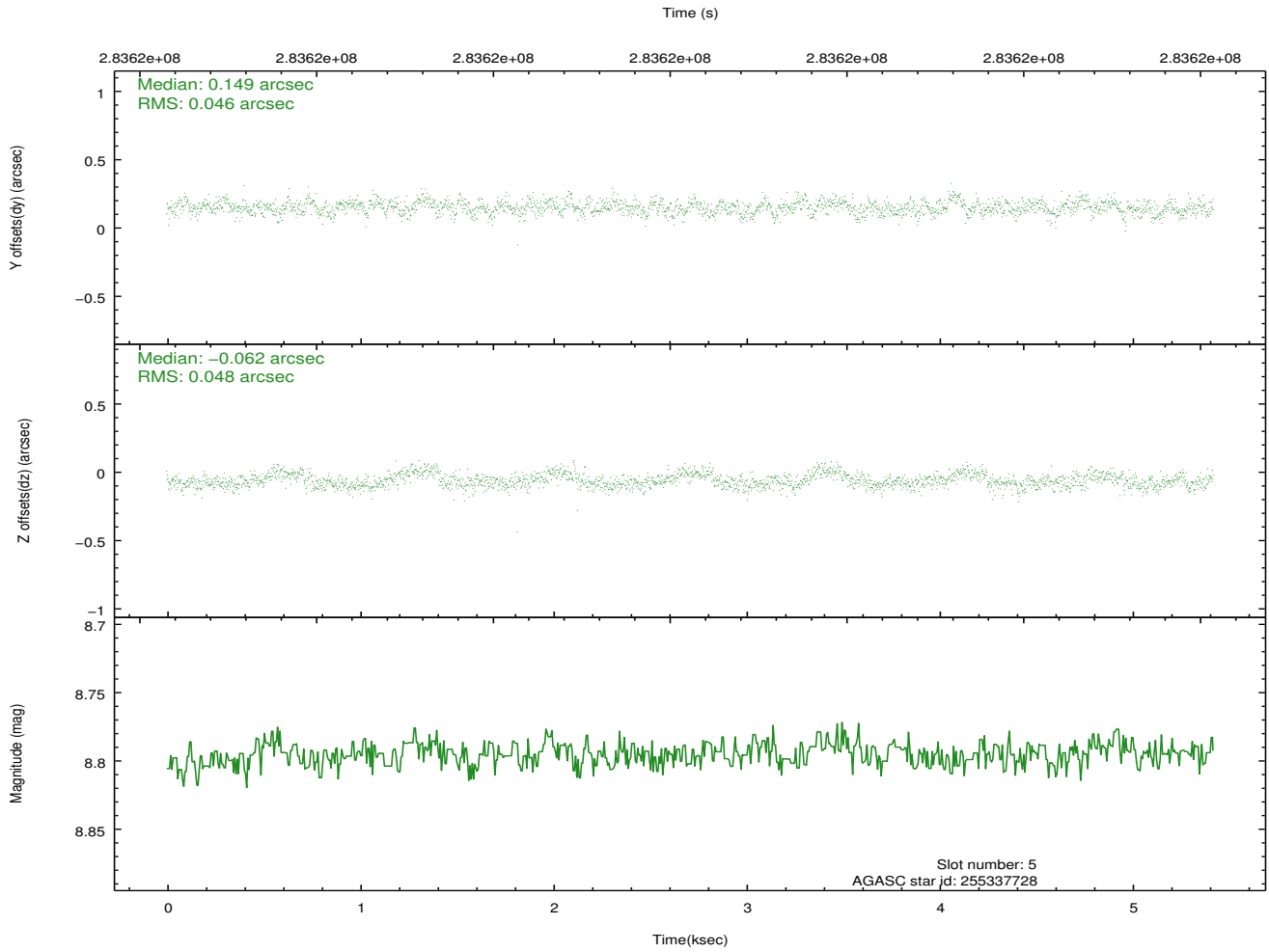
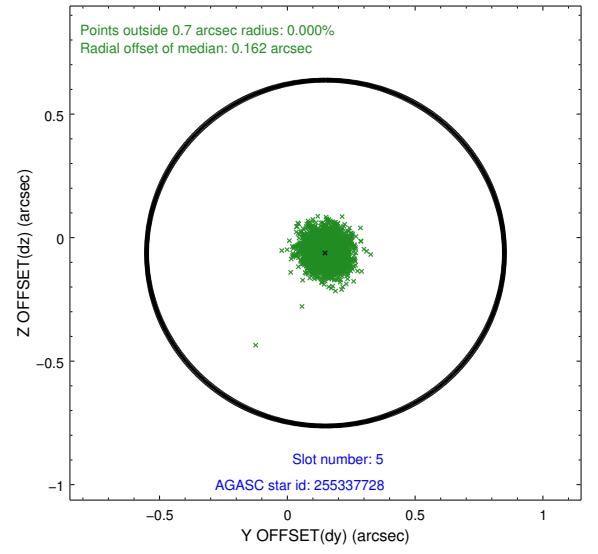
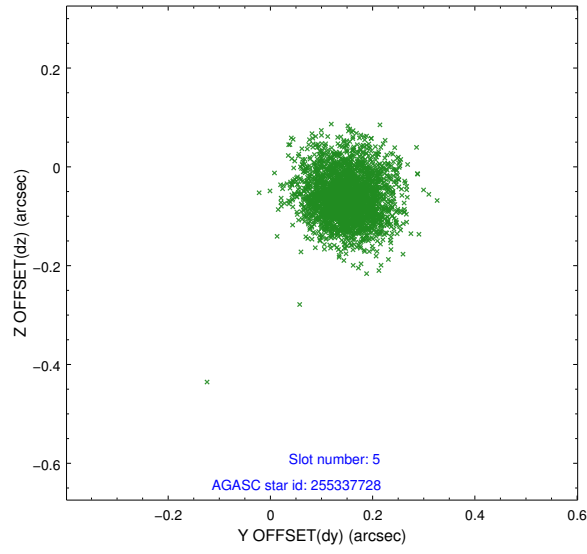
2.4.1 Slot 3



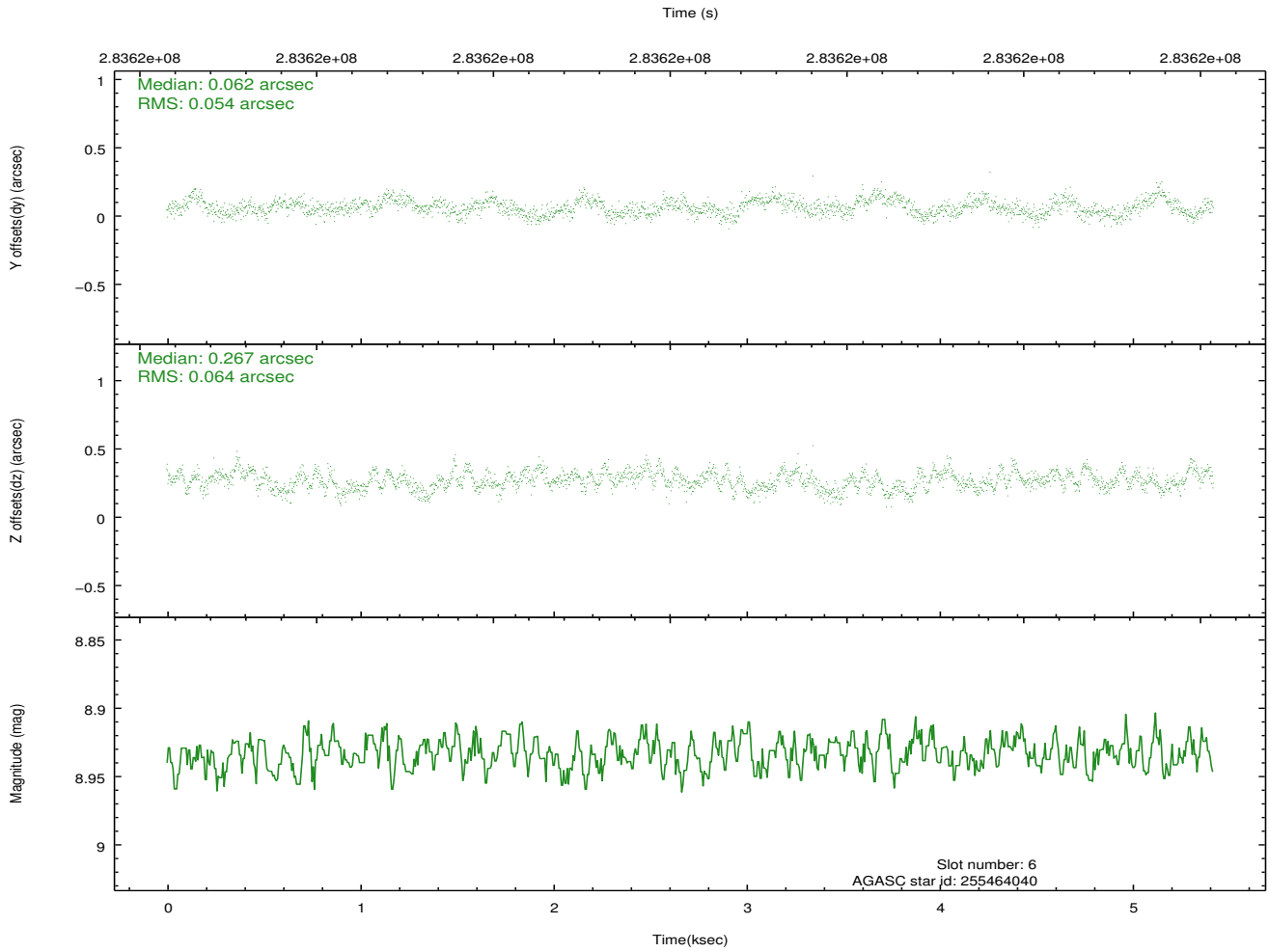
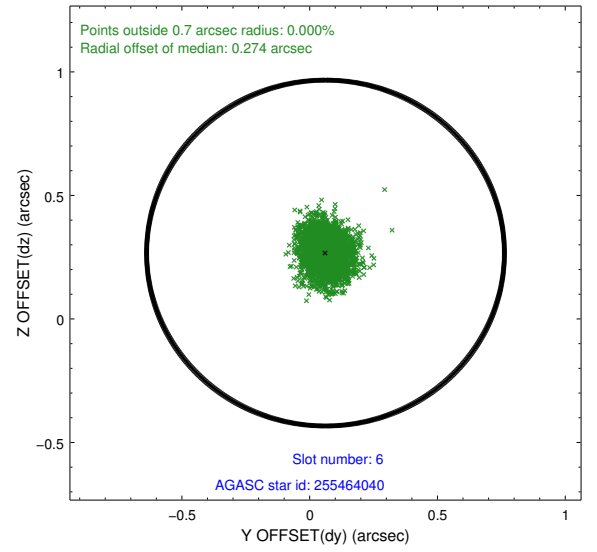
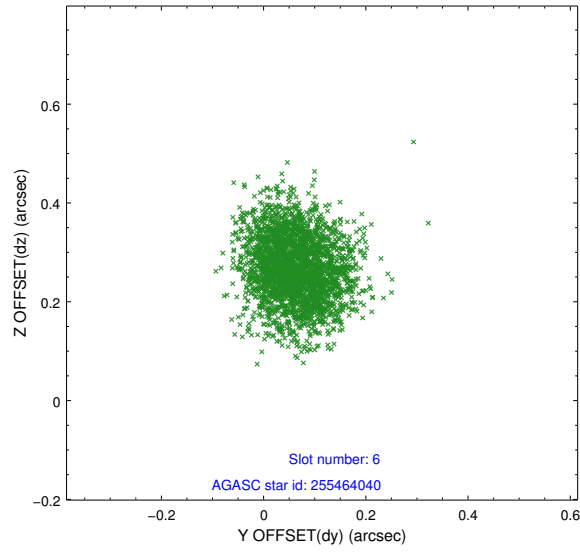
2.4.2 Slot 4



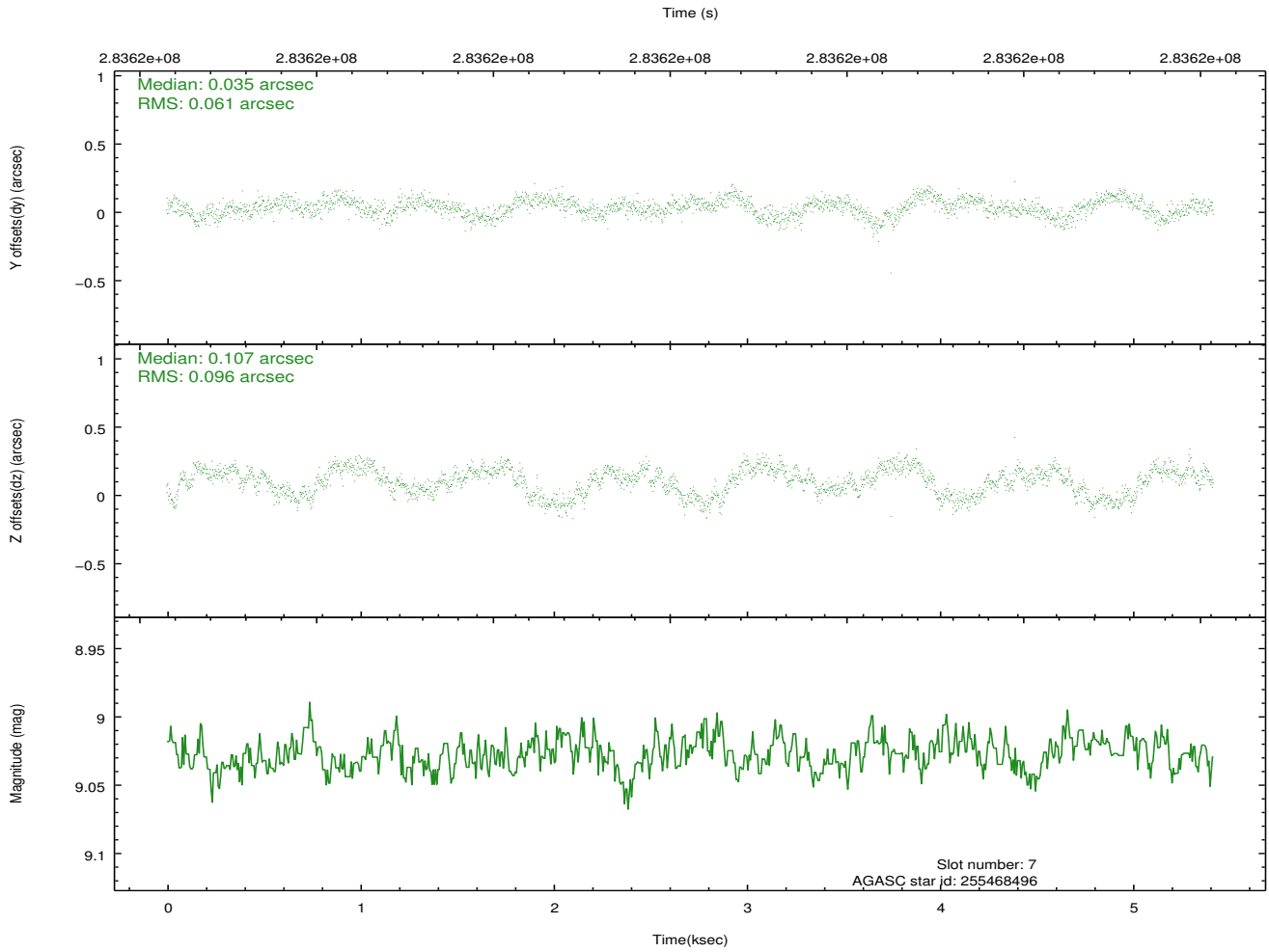
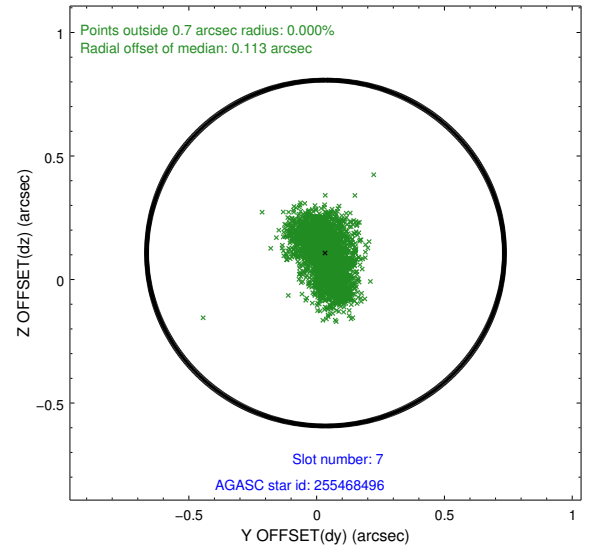
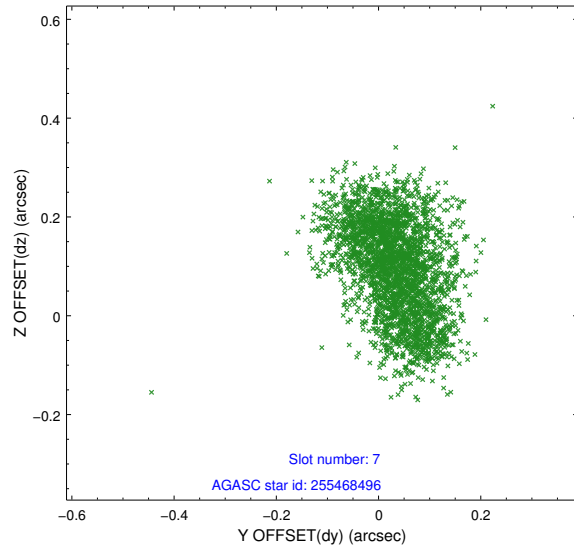
2.4.3 Slot 5



2.4.4 Slot 6

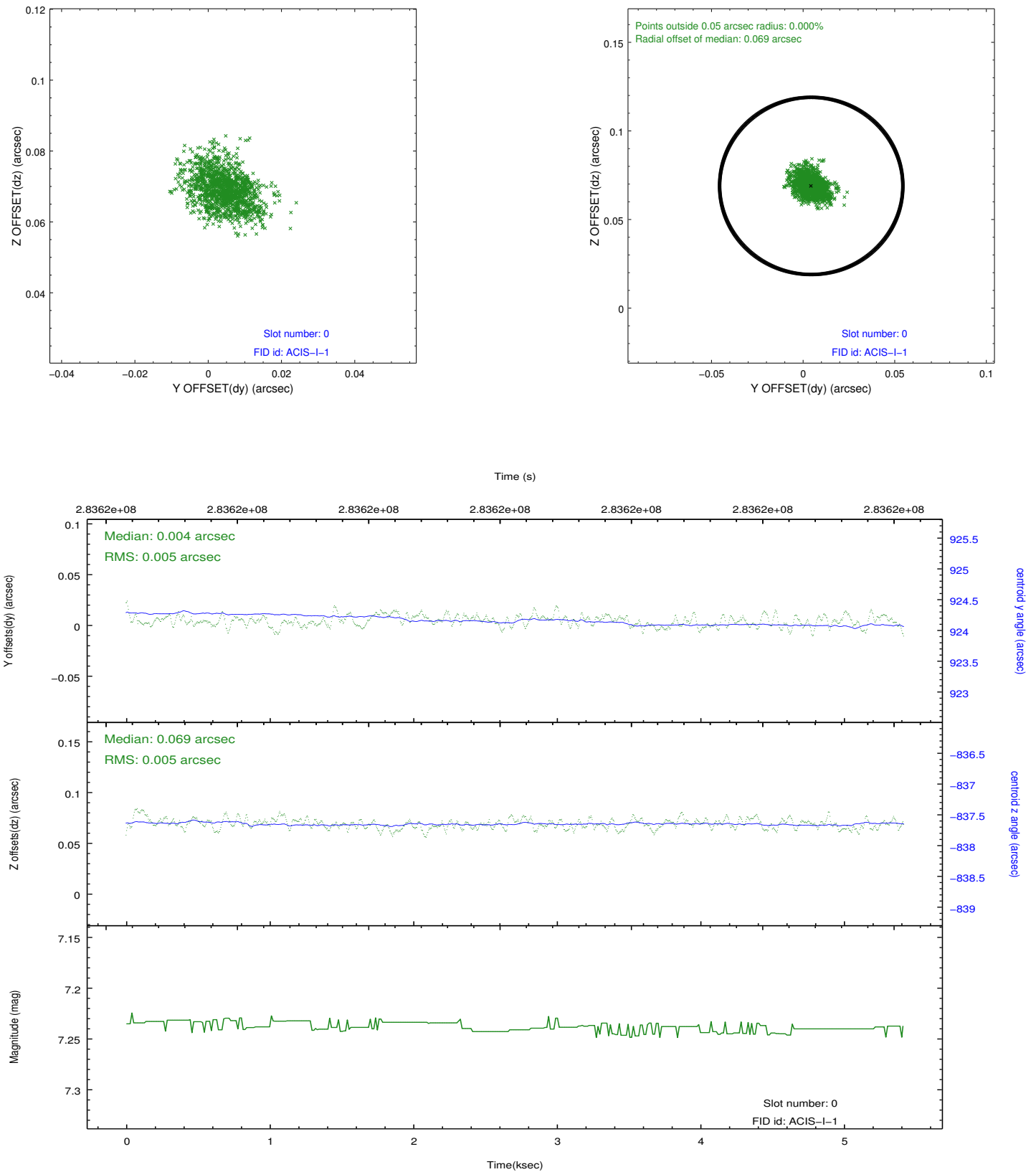


2.4.5 Slot 7

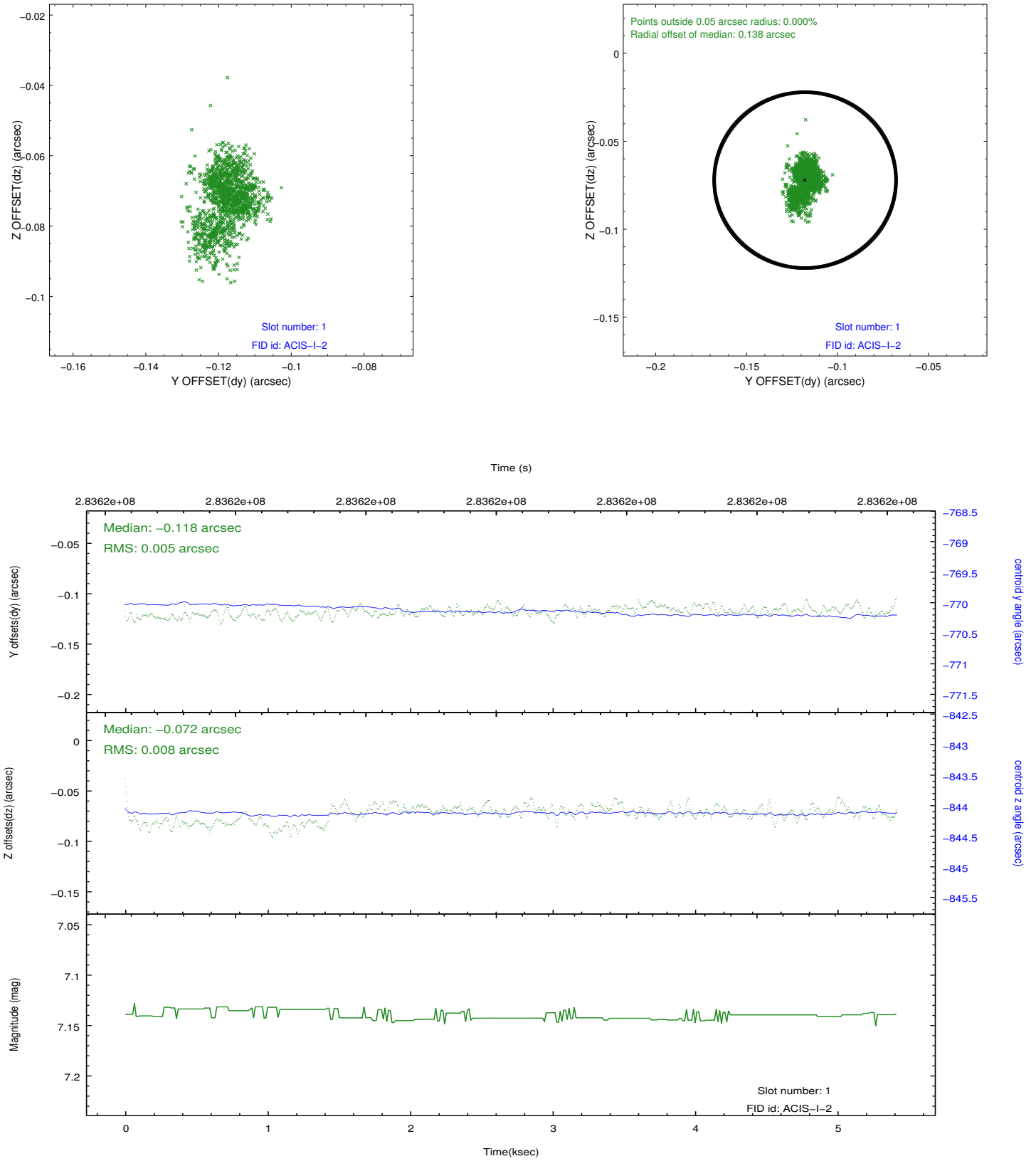


2.5 FID Slots

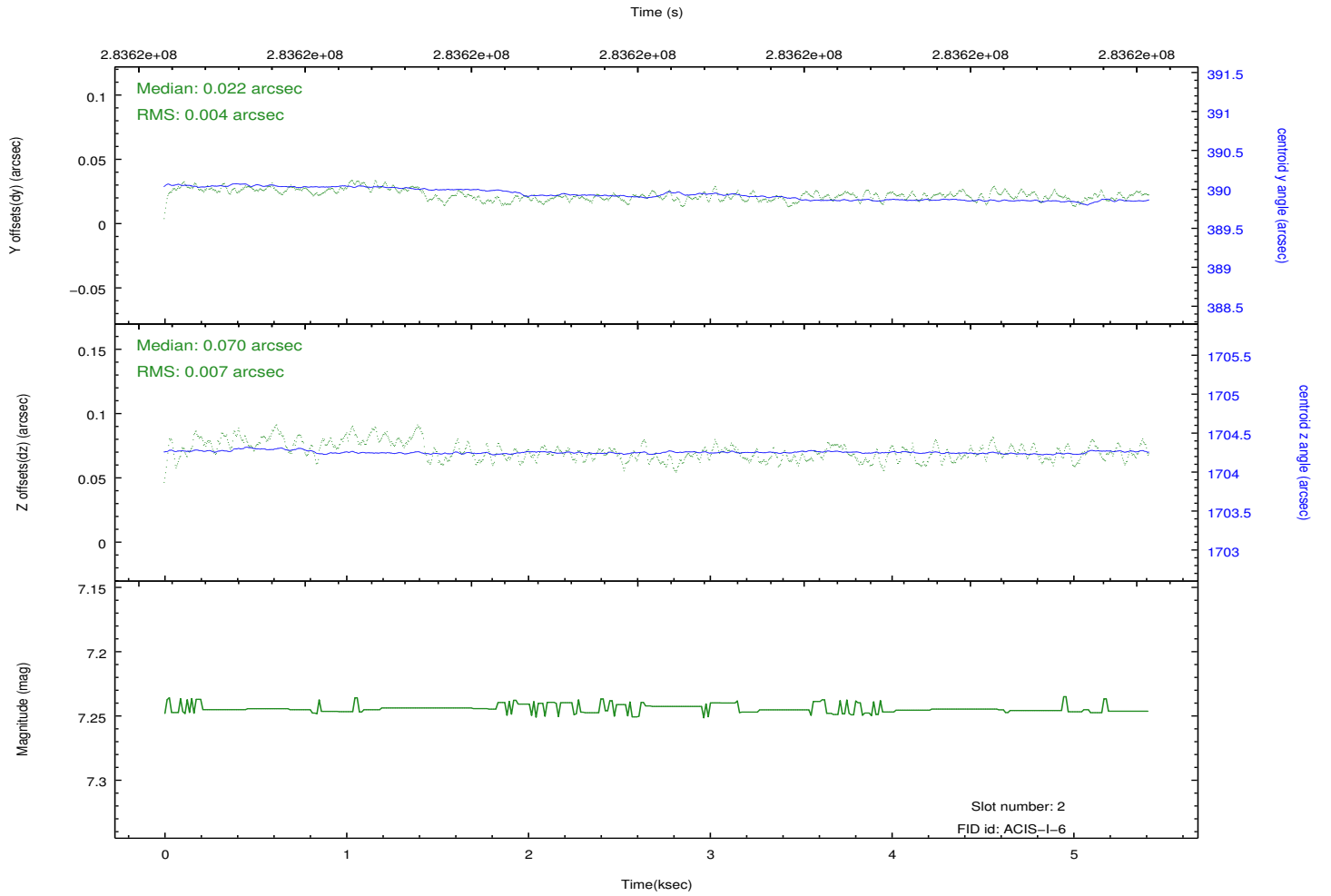
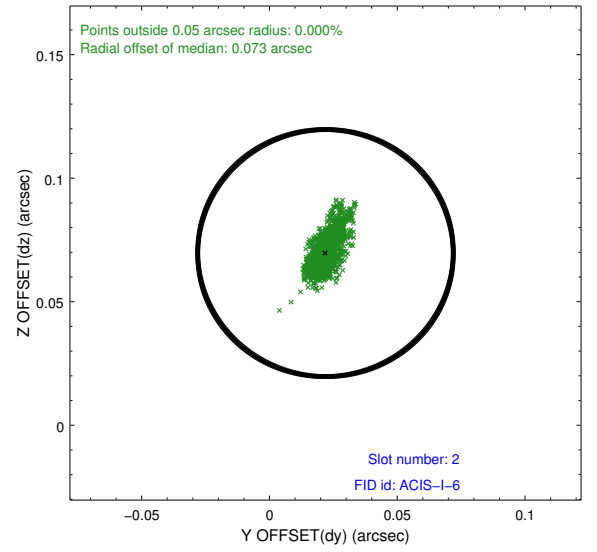
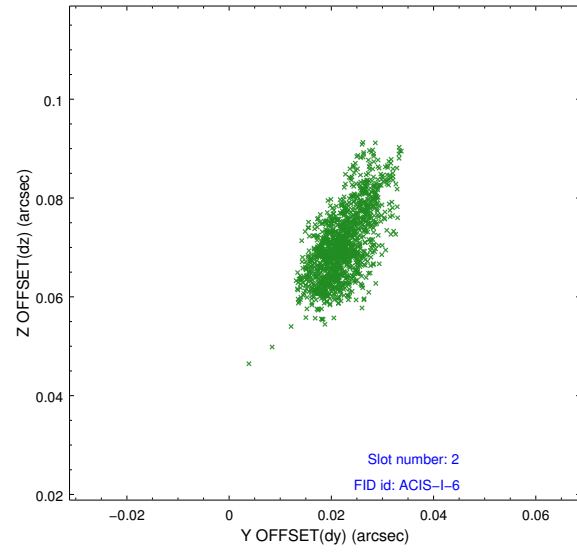
2.5.1 Slot 0



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) | 2012.04.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.84220003 |

A.2 Comments