

V&V Reference Report

L2 ASCDS Version : 7.6.7

Observation 4537 - L2 Version 002
Chandra X-Ray Center

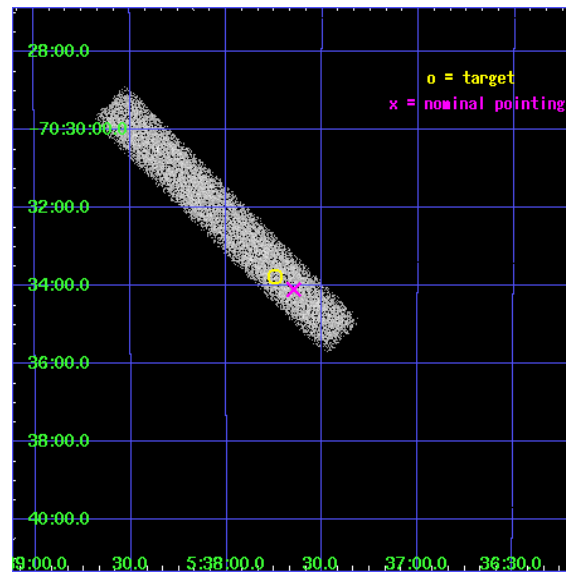
L2 Processing Date: Mar 2 2006

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | 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 |
| 3 | Point Sources | 17 |
| A | Summary | 18 |
| A.1 | Status | 18 |
| A.2 | Comments | 18 |

1 Front

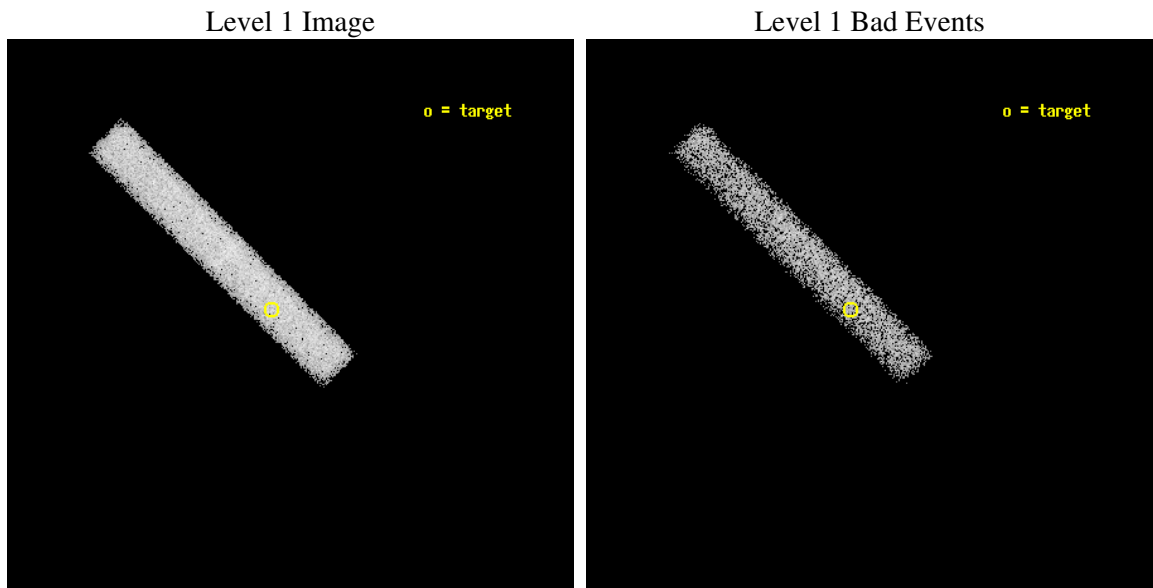
| | |
|----------|---|
| seq_num | 300131 |
| obs_id | 4537 |
| title | Understanding the nature of supersoft X-ray sources |
| observer | Dr. Jochen Greiner |
| object | RXJ 0537.7-7034 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 84.435833 |
| dec_targ | -70.563056 |
| ra_nom | 84.412000523645 |
| dec_nom | -70.568552572714 |
| roll_nom | 224.73679555779 |
| revision | 2 |
| ontime | 32173.200479418 |
| livetime | 29179.394594067 |
| ontime7 | 32173.200479418 |
| l2events | 18199 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7 |
| caldbver | 3.2.1 |
| date | 2006-03-02T10:58:19 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 32000.000000 |
| ontime | 32945.752409697 |
| ontime7 | 32945.752409697 |
| l1events | 44638 |

2.1.4 Events

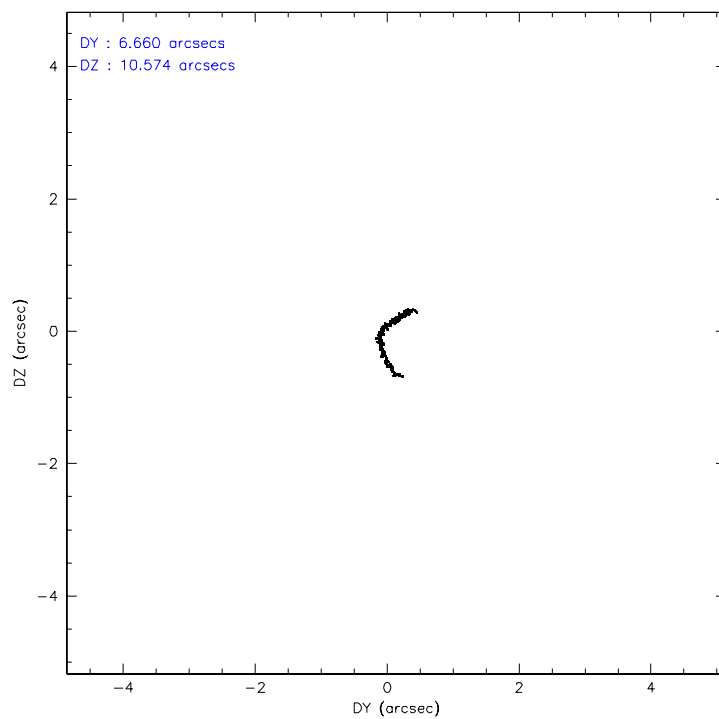
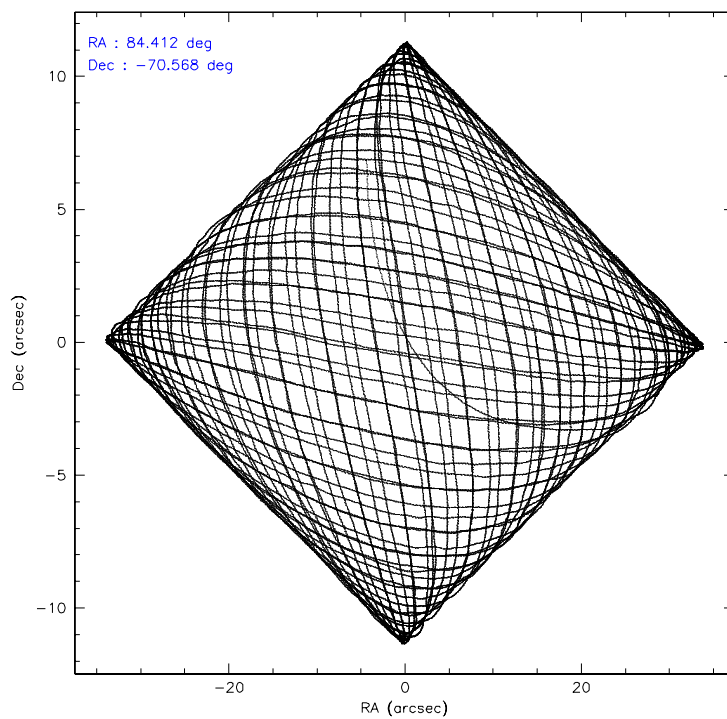
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 44638 |
| rejected events | 25604 |
| rejected % | 57% |

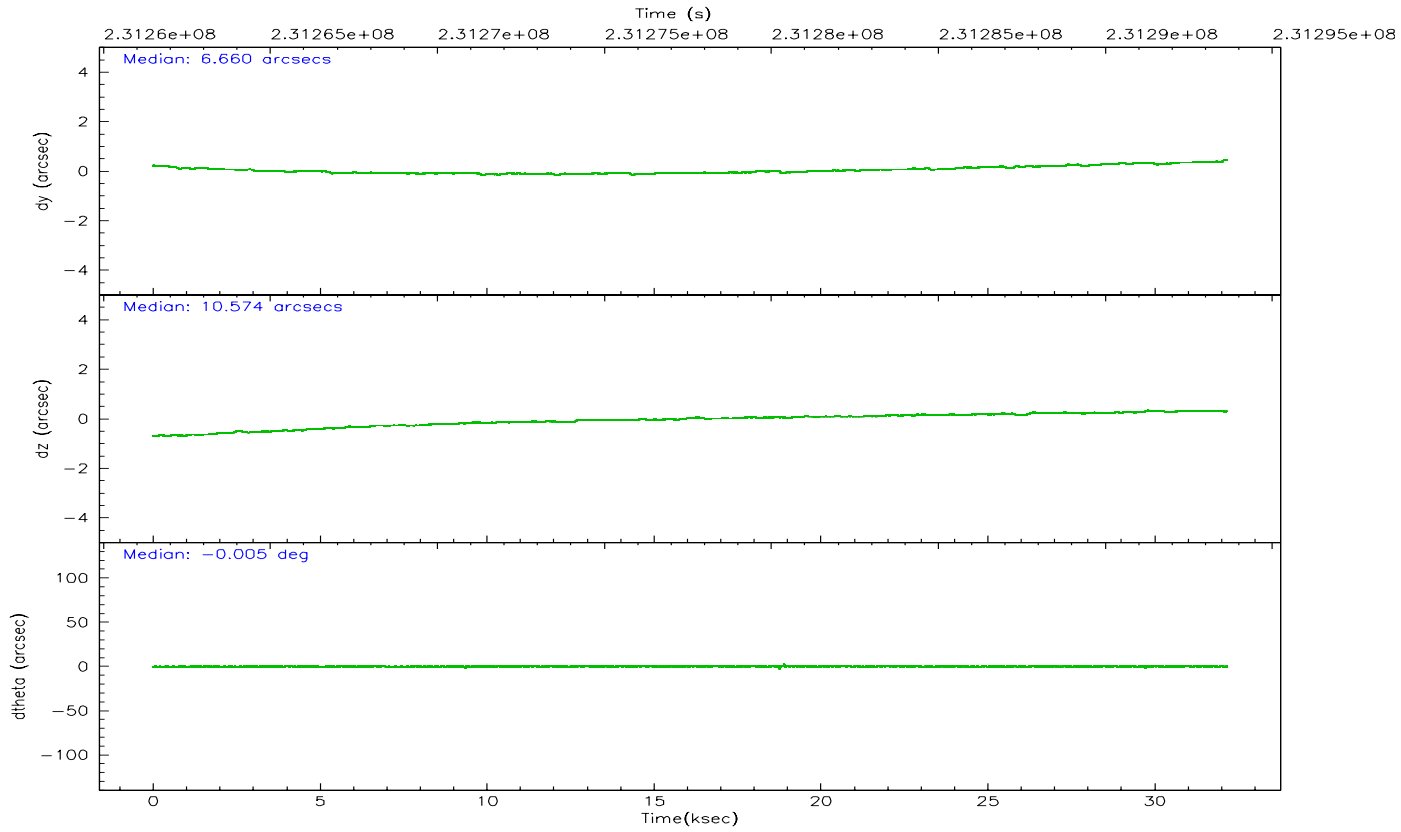
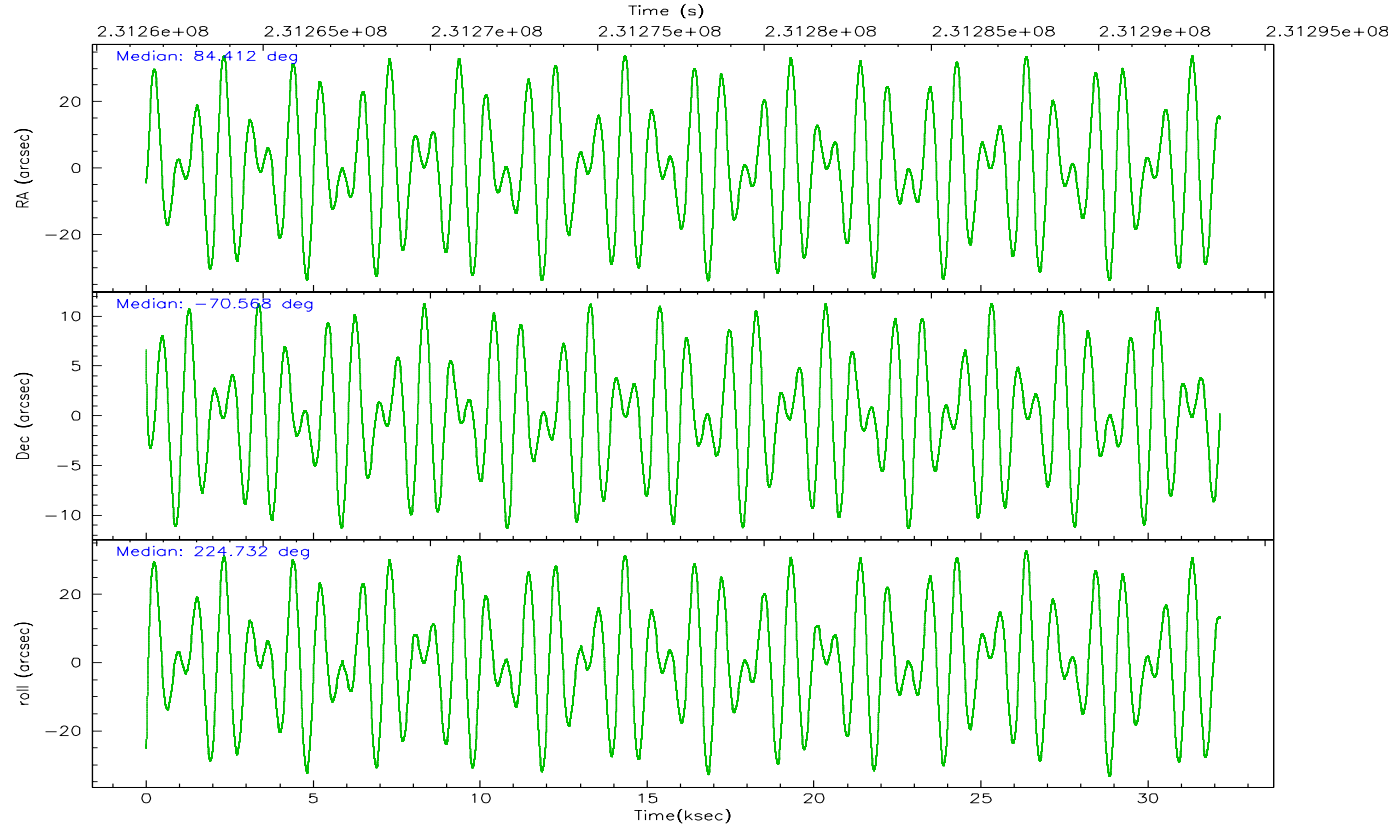
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 1304 |
| | 2% |
| grade 1 events | 35 |
| | 0% |
| grade 2 events | 4379 |
| | 9% |
| grade 3 events | 2045 |
| | 4% |
| grade 4 events | 1951 |
| | 4% |
| grade 5 events | 3097 |
| | 6% |
| grade 6 events | 9789 |
| | 21% |
| grade 7 events | 22038 |
| | 49% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-7 | ACIS-7 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | 1/8 | 1/8 |
| Pointing RA | 84.432386 | 84.41200052364483 | Subarray start row | 0 | 449 |
| Pointing Dec | -70.542178 | -70.56855257271413 | Subarray row count | 1024 | 128 |
| Pointing Roll | 224.599403 | 224.7367955577869 | Alternating exposures requested | N | N |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | Primary exposure time | 0.000000 | 0.4 |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 231261655.184000 | 231260651.49264 | | | |
| Observation start date | 2005-04-30T15:19:51 | 2005-04-30T15:04:11 | | | |
| Observation end time | 231293655.184000 | 231294569.76919 | | | |
| Observation end date | 2005-05-01T00:13:11 | 2005-05-01T00:29:29 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



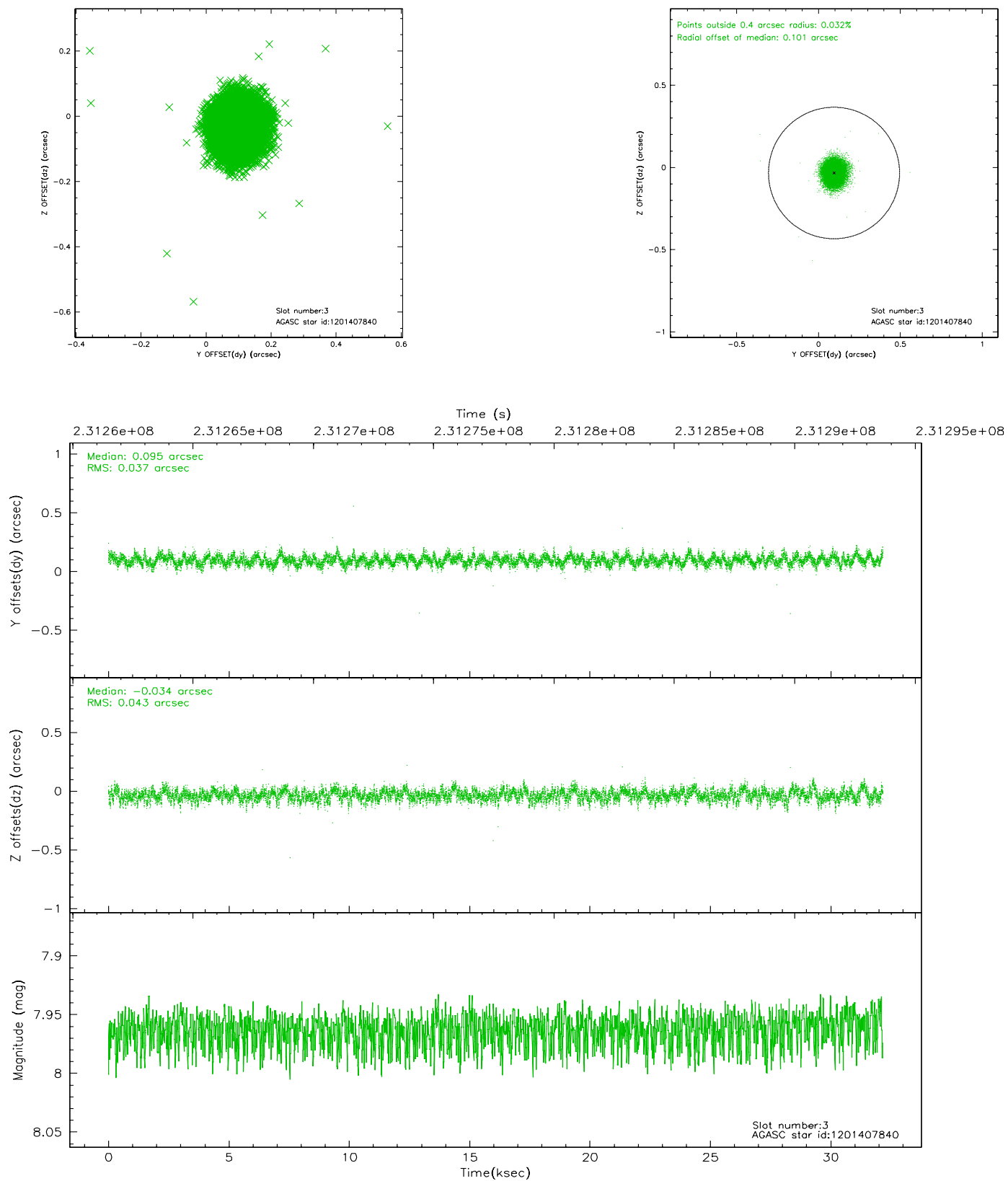


Slot Statistics

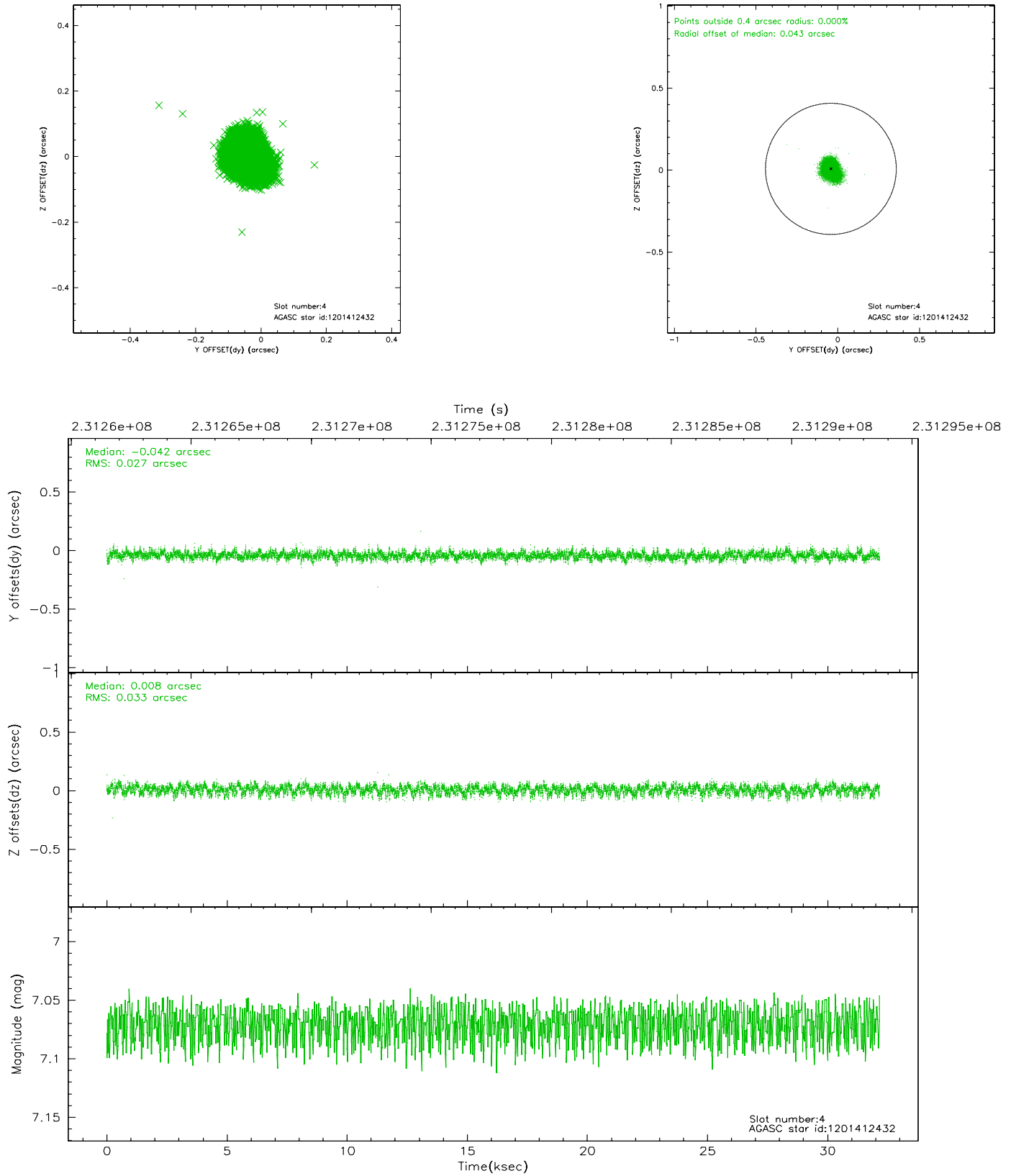
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 7848 | -0.053 | 0.001 | 0.009 | 0.015 | 0.000000 | 0.000000 | -759.47 | -1731.79 |
| 1 | FID | ACIS-S-4 | 7.21 | 7847 | 0.058 | 0.025 | 0.008 | 0.013 | 0.000000 | 0.000000 | 2153.86 | 176.71 |
| 2 | FID | ACIS-S-5 | 7.23 | 7847 | -0.037 | -0.017 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1812.25 | 170.33 |
| 3 | GUIDE | 1201407840 | 7.96 | 15693 | 0.095 | -0.034 | 0.061 | 0.096 | 83.696303 | -70.172201 | -290.75 | -1575.48 |
| 4 | GUIDE | 1201412432 | 7.07 | 15696 | -0.042 | 0.008 | 0.044 | 0.074 | 83.813525 | -71.137747 | 2020.97 | 1023.72 |
| 5 | GUIDE | 1201541752 | 7.30 | 15696 | 0.010 | 0.106 | 0.049 | 0.081 | 85.373891 | -70.033762 | -2102.43 | -484.15 |
| 6 | GUIDE | 1201542672 | 8.18 | 15689 | 0.027 | -0.104 | 0.066 | 0.106 | 84.492488 | -69.957531 | -1531.13 | -1447.16 |
| 7 | GUIDE | 1201409792 | 8.86 | 15687 | -0.090 | 0.026 | 0.071 | 0.114 | 82.417975 | -70.260186 | 1059.75 | -2413.30 |

2.4 Star Slots

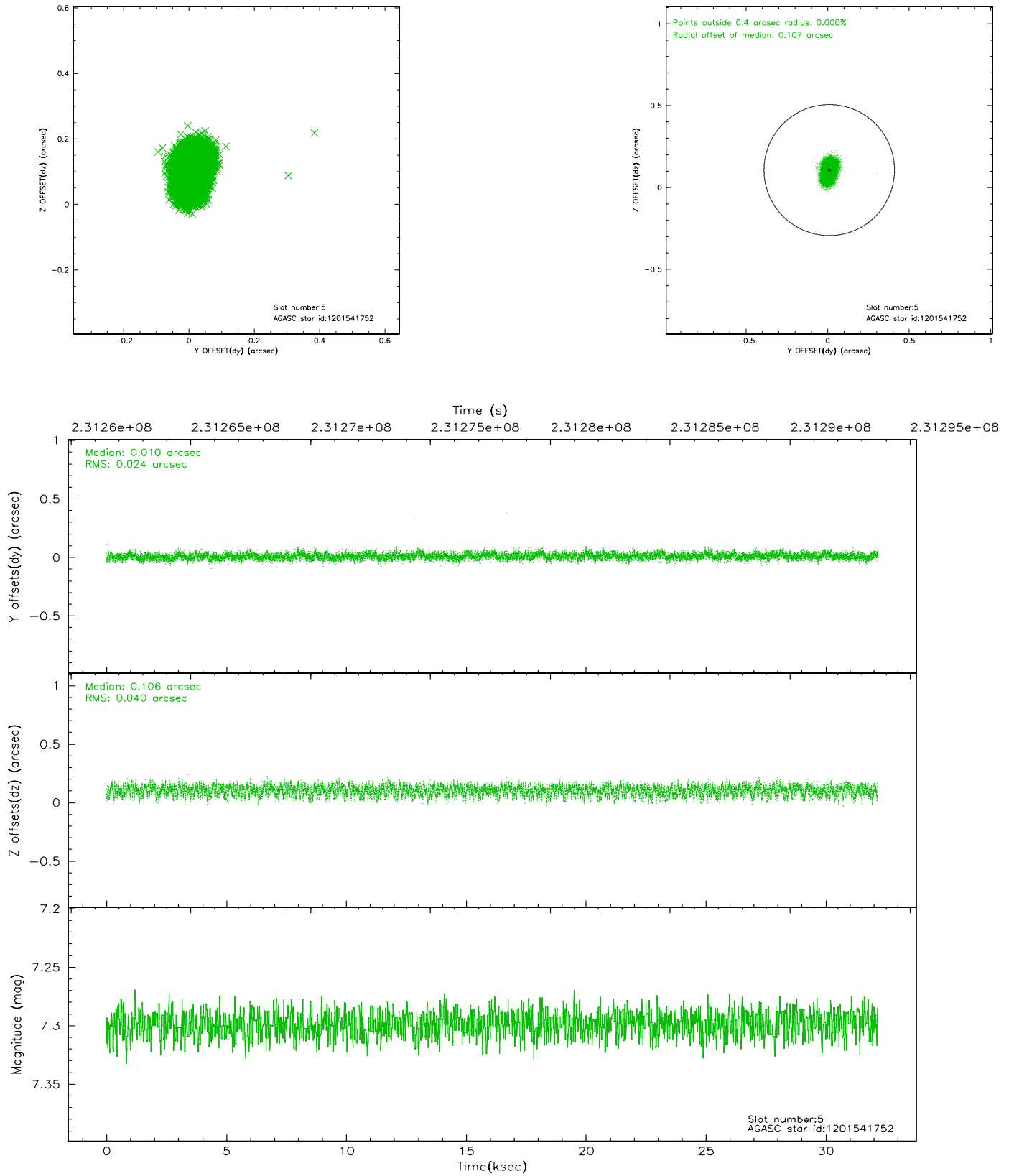
2.4.1 Slot 3



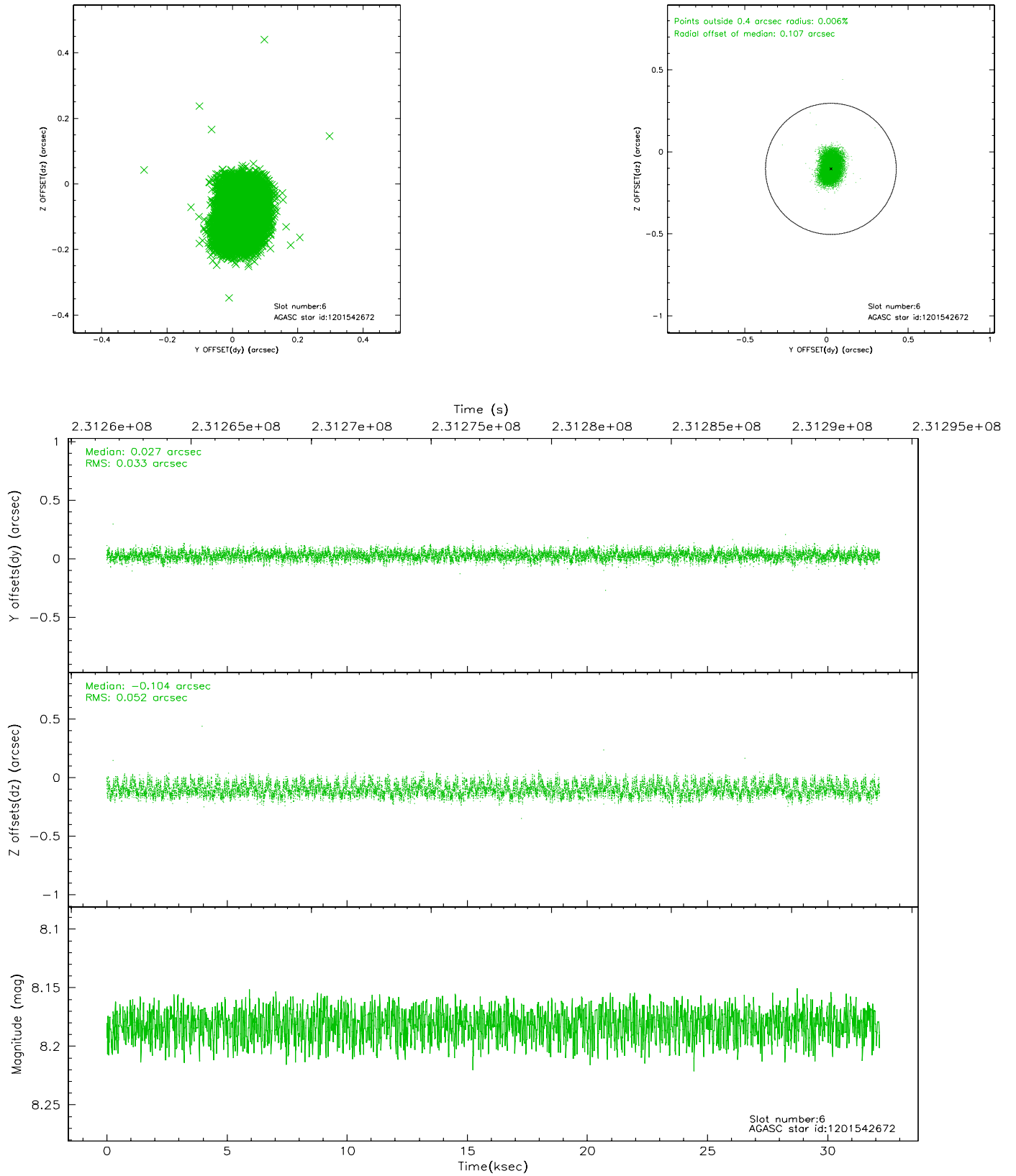
2.4.2 Slot 4



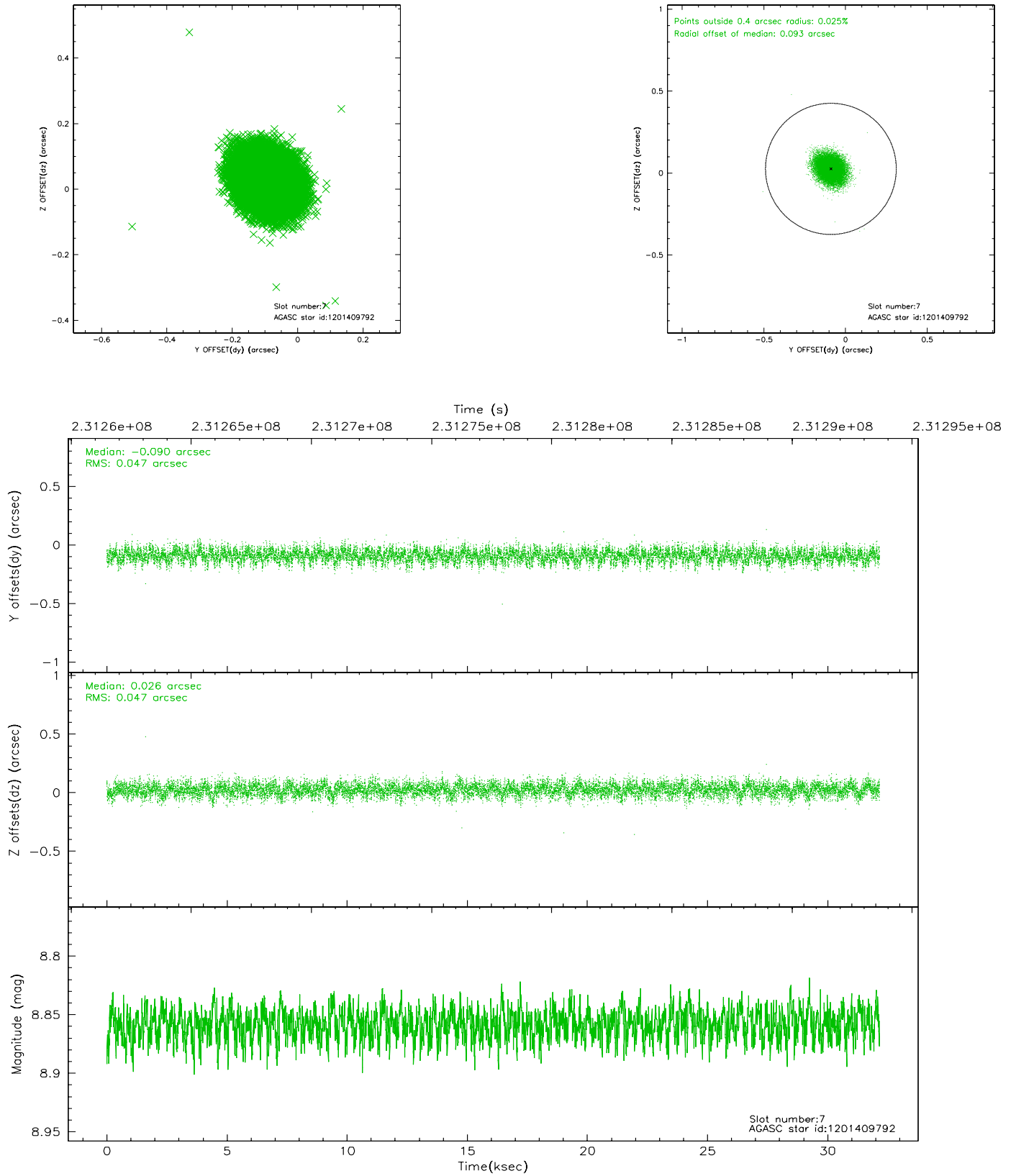
2.4.3 Slot 5



2.4.4 Slot 6

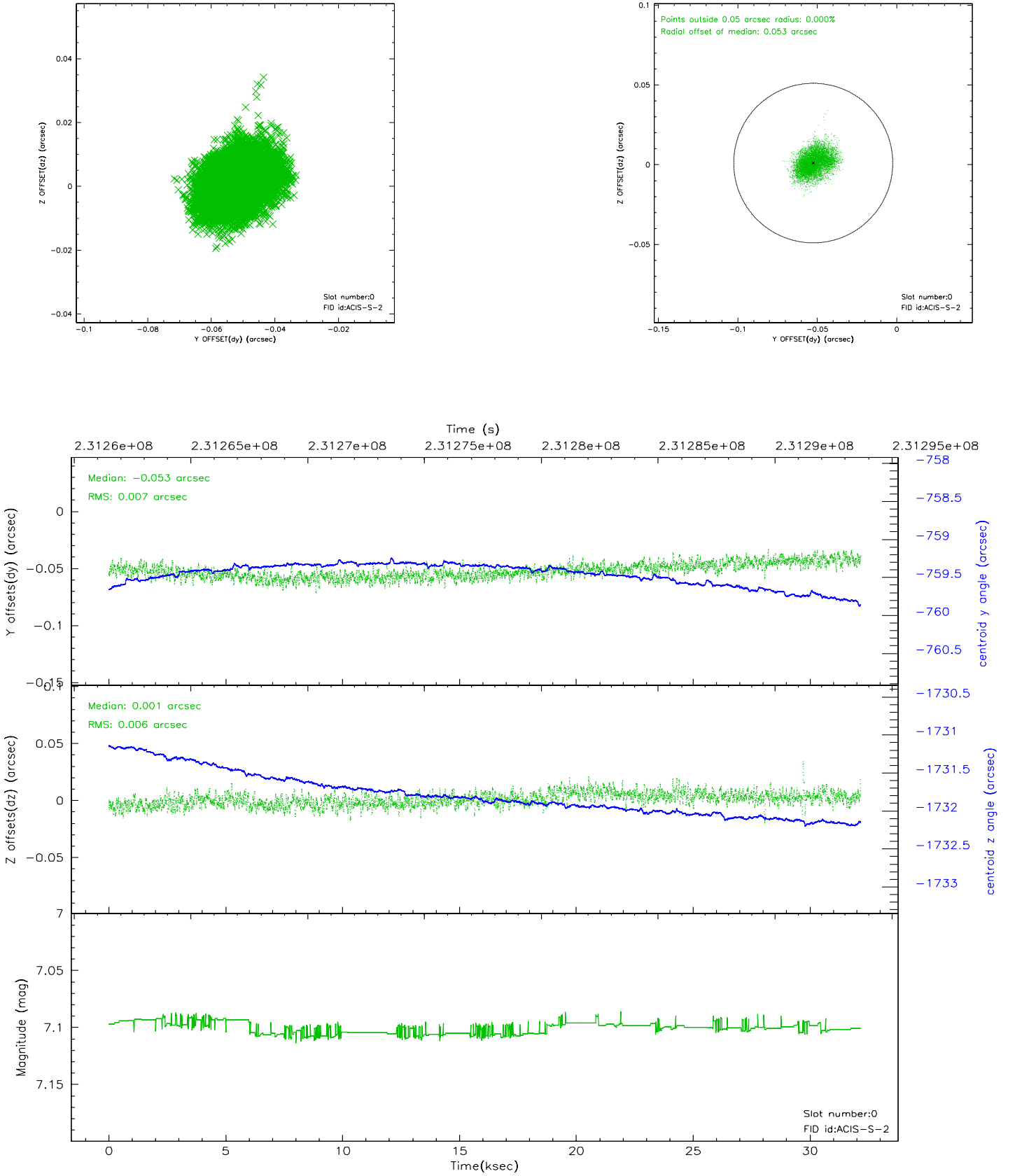


2.4.5 Slot 7

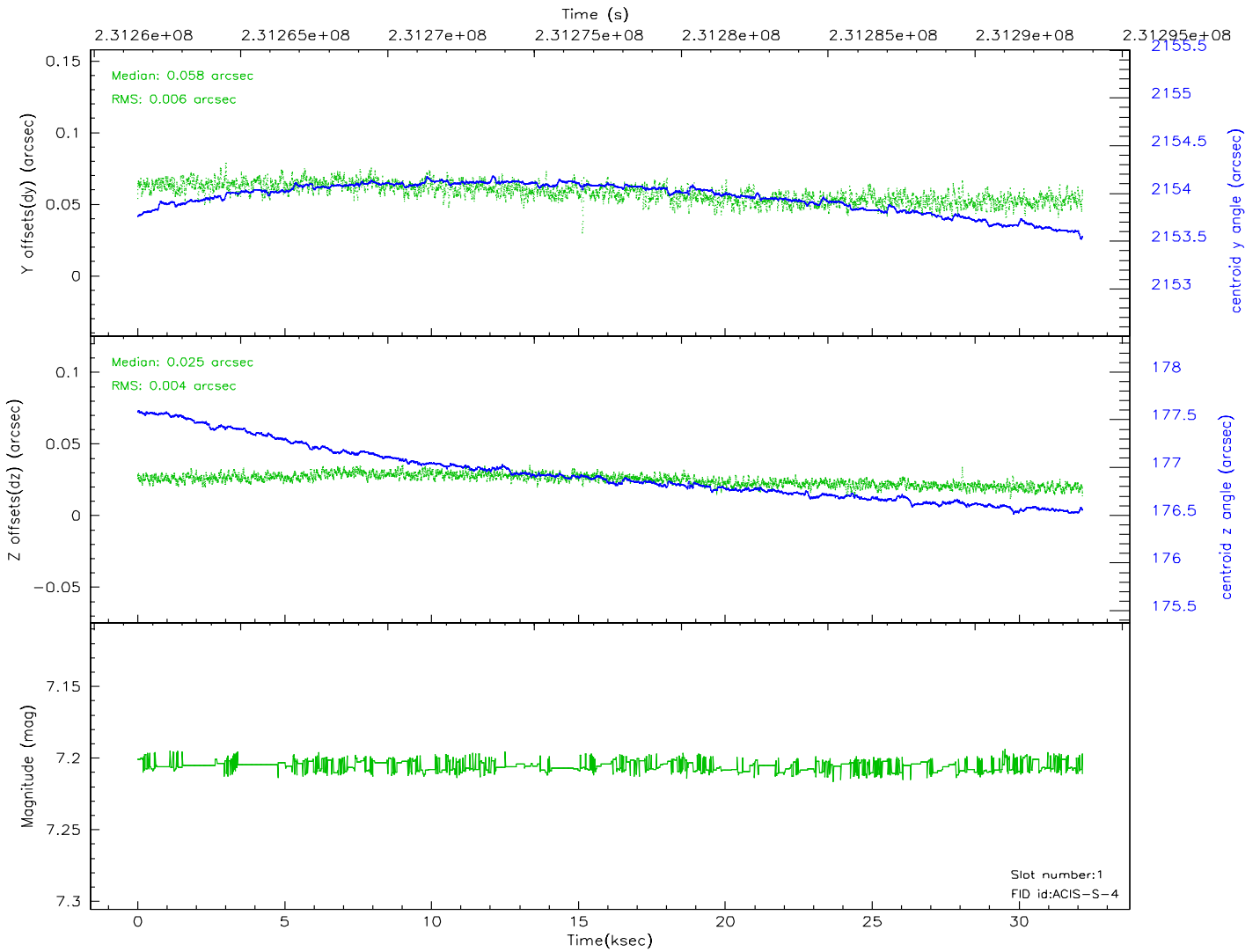
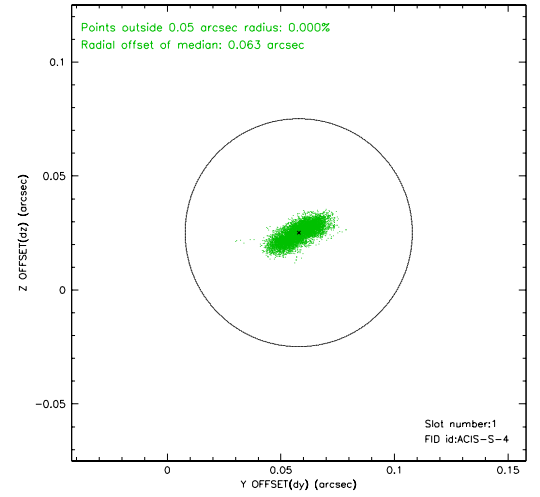
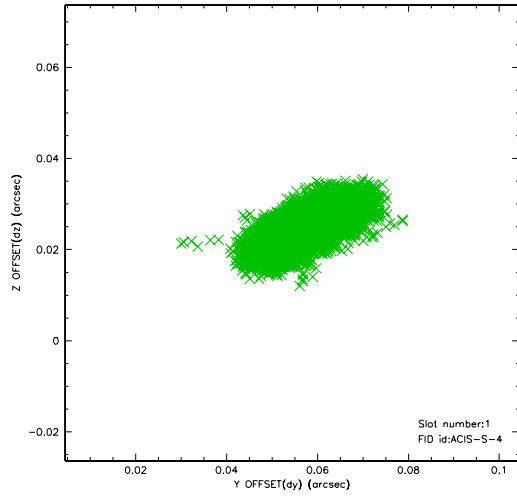


2.5 FID Slots

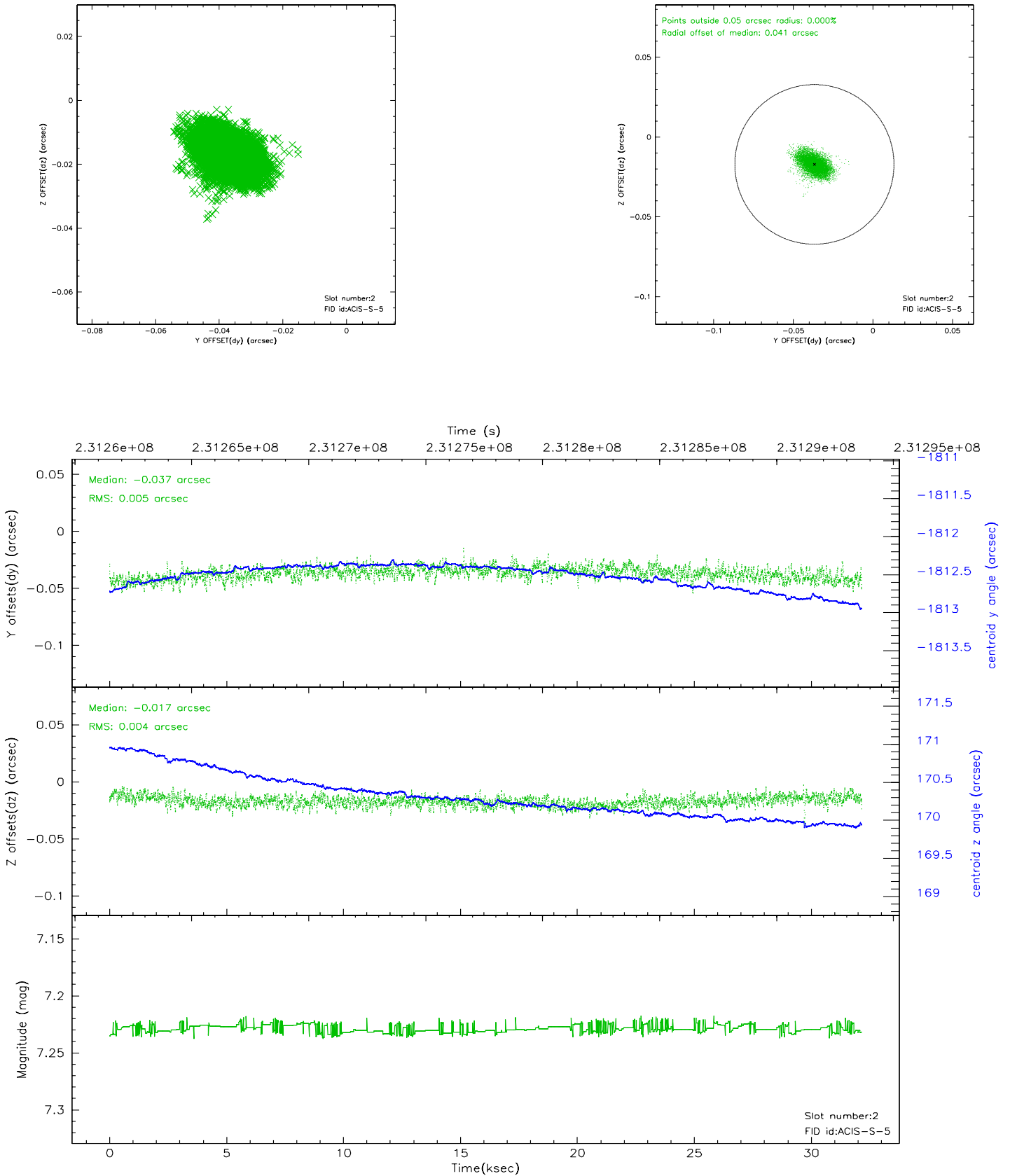
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.03.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 32.1732 |

A.2 Comments