

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2862 - L2 Version 001
Chandra X-Ray Center

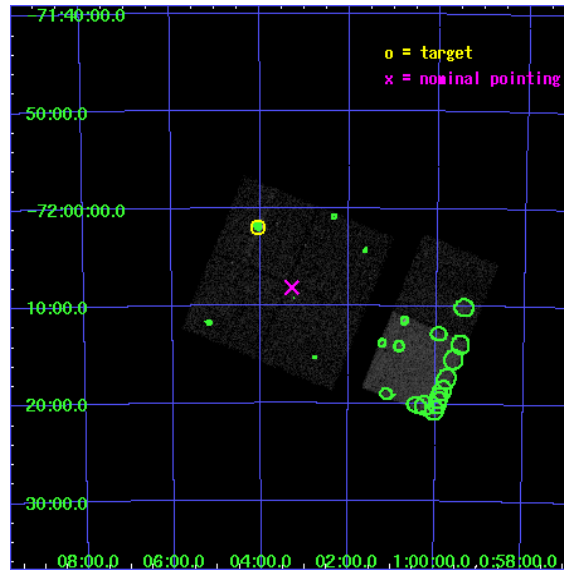
L2 Processing Date : Sep 20 2006

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1 Front

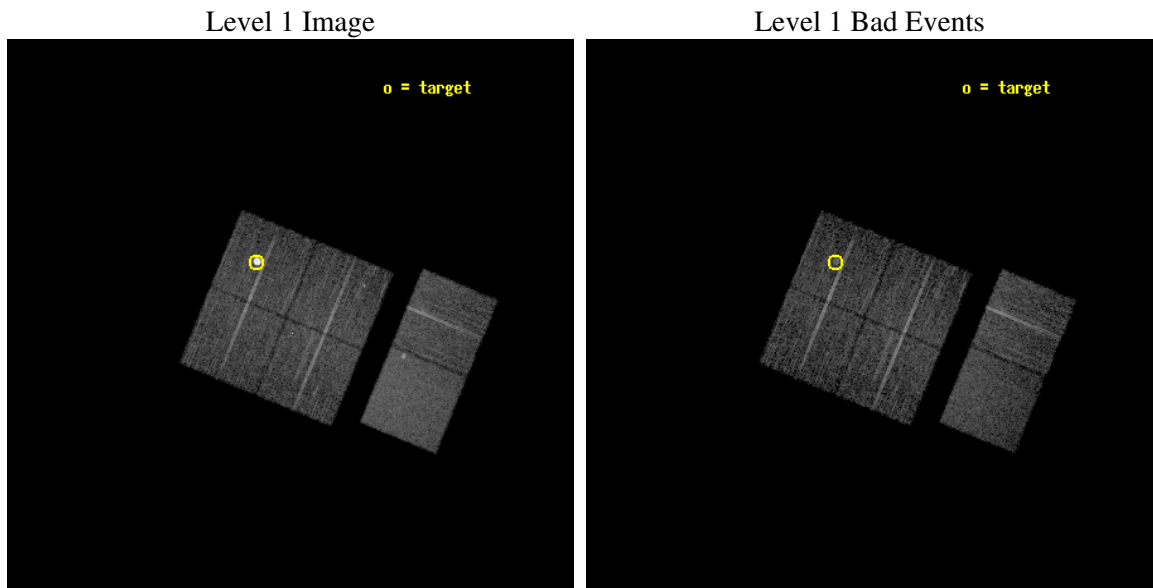
| | |
|----------|--|
| seq_num | 590251 |
| obs_id | 2862 |
| title | AO3B ACIS-I CALIBRATION OBSERVATIONS OF E0102-72 |
| observer | Dr. CXC Calibration |
| object | E0102-72.3 [Chip I0, T=120, Offsets=4,-5,0] |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 16.01 |
| dec_targ | -72.032028 |
| ra_nom | 15.822015970198 |
| dec_nom | -72.135730579208 |
| roll_nom | 112.39858964523 |
| revision | 3 |
| ontime | 7657.5999714732 |
| livetime | 7560.6348297813 |
| ontime0 | 7657.5999714732 |
| ontime1 | 7657.5999714732 |
| ontime2 | 7657.5999714732 |
| ontime3 | 7657.5999714732 |
| ontime6 | 7657.5999714732 |
| ontime7 | 7657.5999714732 |
| l2events | 75783 |



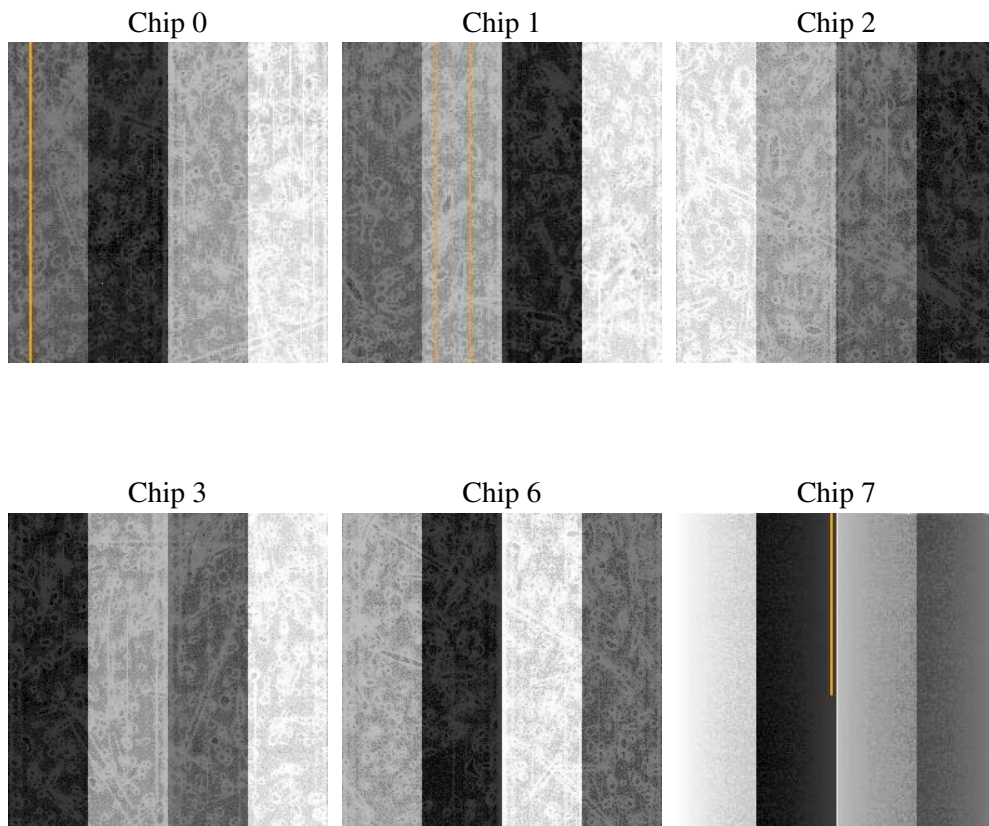
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldbver | 3.2.3 |
| date | 2006-09-20T23:54:43 |
| revision | 3 |

| | |
|----------------|-----------------|
| sched_exp_time | 7900.000000 |
| ontime | 7664.9663937986 |
| ontime0 | 7664.9663937986 |
| ontime1 | 7661.7253737152 |
| ontime2 | 7661.7253737152 |
| ontime3 | 7661.7253737152 |
| ontime6 | 7661.7253737152 |
| ontime7 | 7661.7254036367 |
| l1events | 332468 |

2.1.4 Events

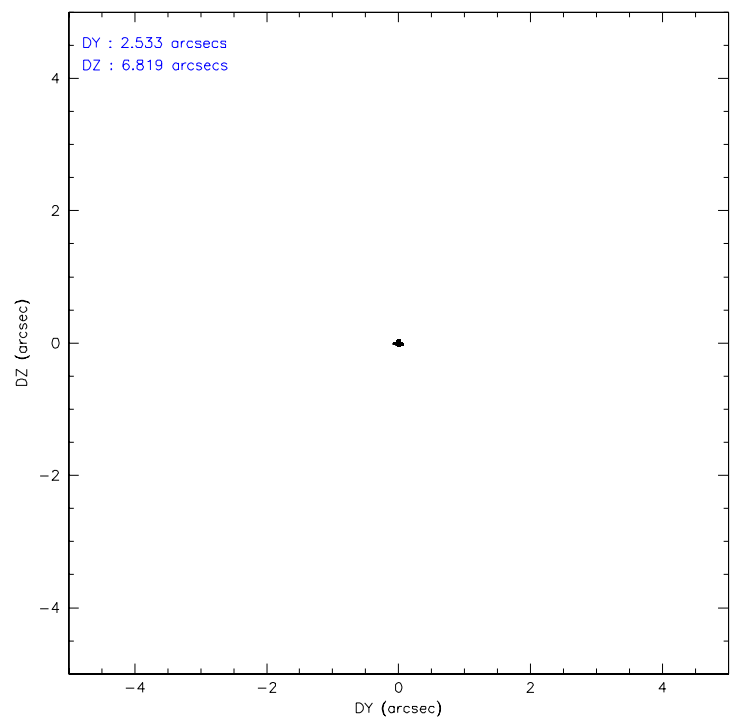
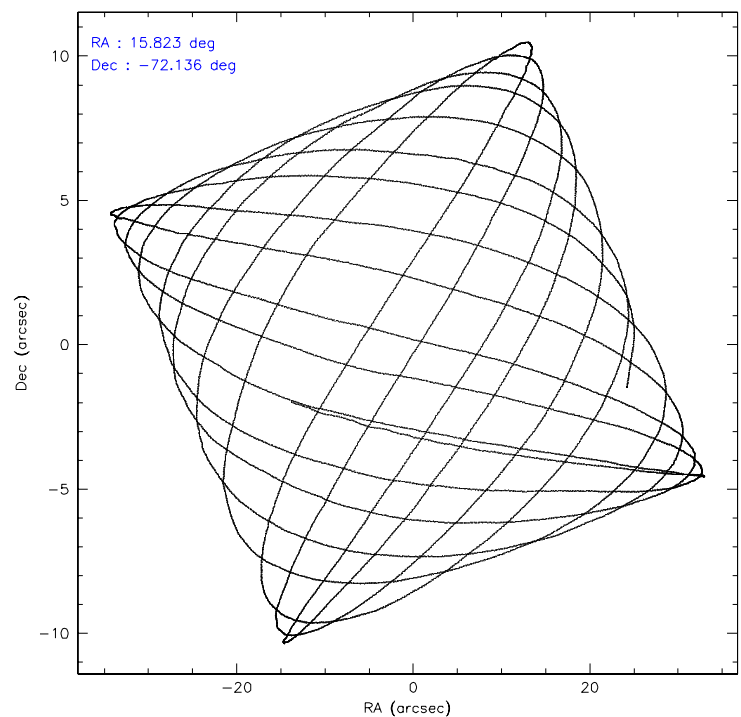
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 69705 | 46272 | 48918 | 49023 | 52287 | 66263 |
| rejected events | 40221 | 39548 | 42828 | 42650 | 45898 | 40578 |
| rejected % | 57% | 85% | 87% | 86% | 87% | 61% |

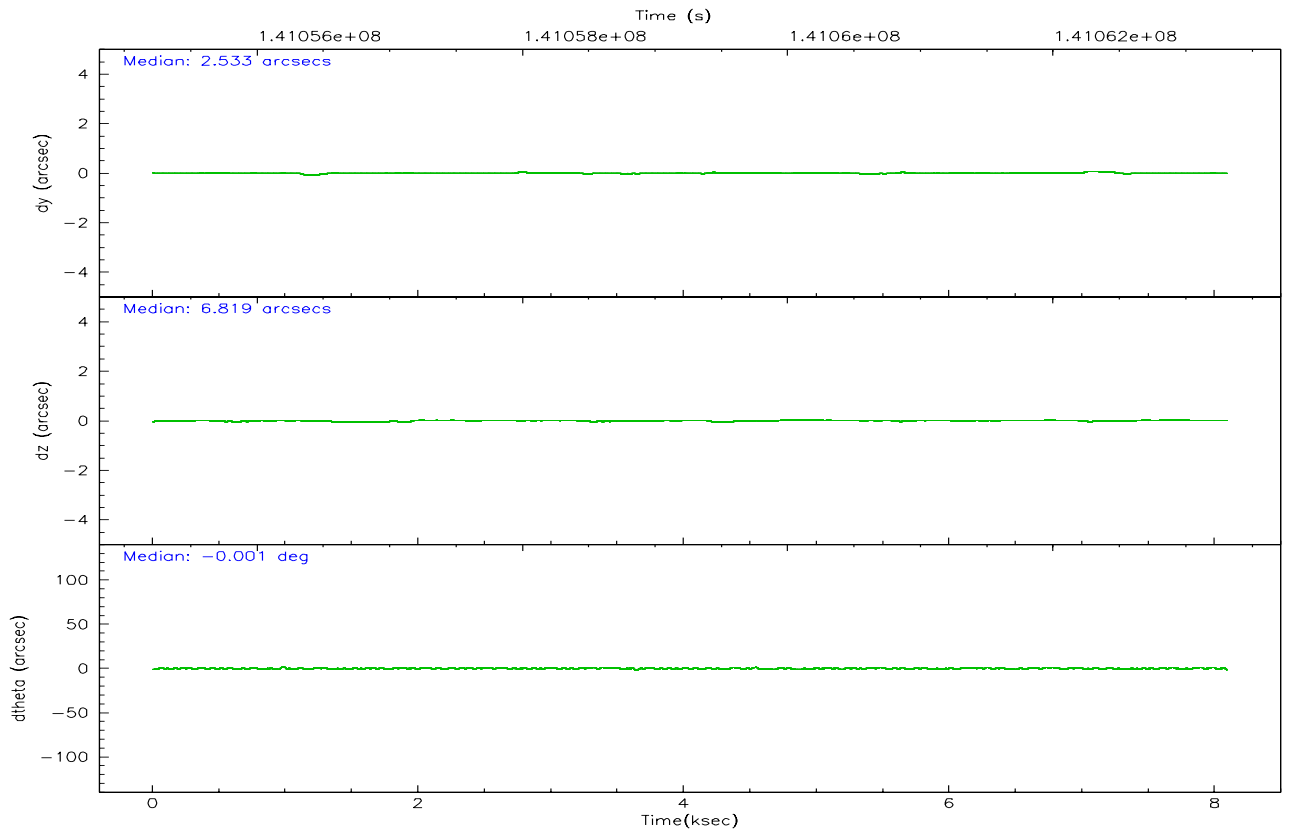
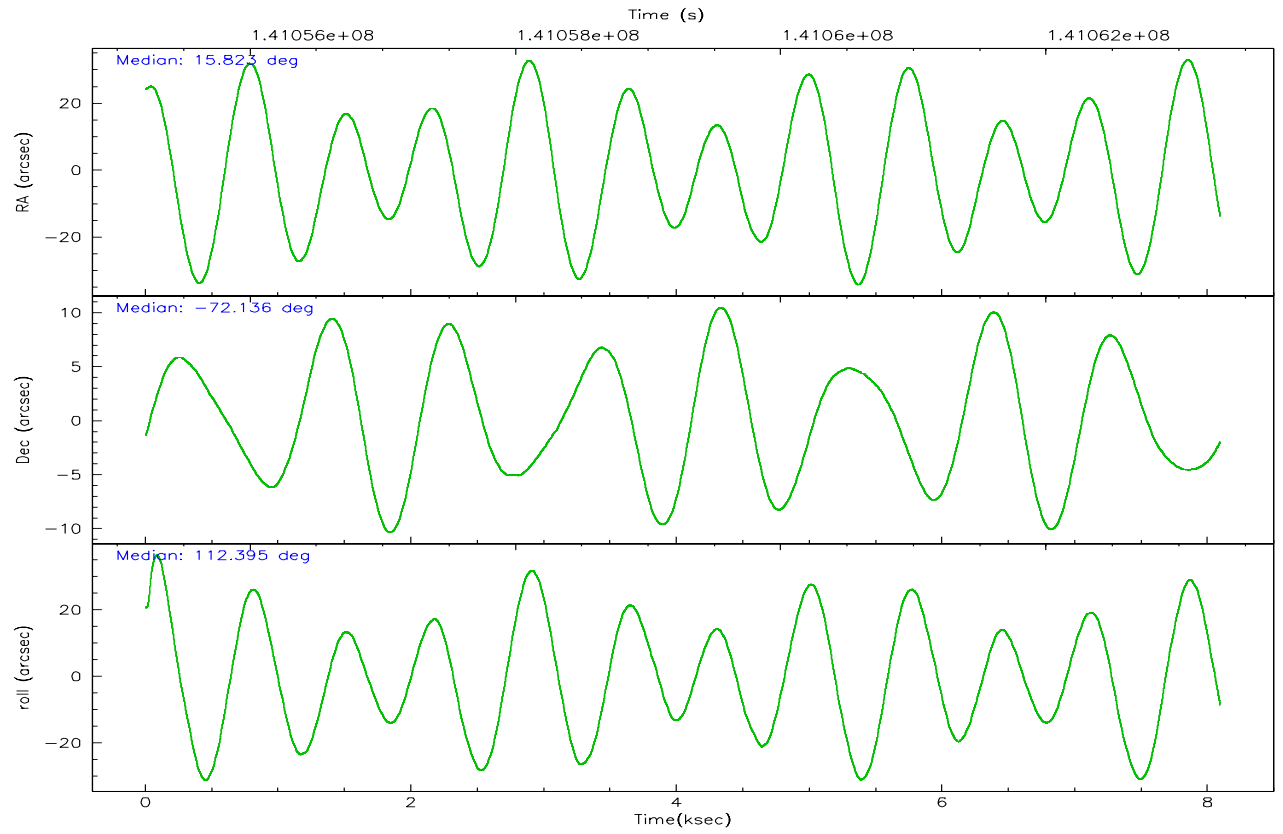
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 23406 | 2956 | 2717 | 2953 | 2913 | 1800 |
| | 33% | 6% | 5% | 6% | 5% | 2% |
| grade 1 events | 200 | 24 | 20 | 22 | 27 | 30 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 2881 | 1343 | 1304 | 1225 | 1190 | 6347 |
| | 4% | 2% | 2% | 2% | 2% | 9% |
| grade 3 events | 1013 | 628 | 569 | 574 | 579 | 1379 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 4 events | 954 | 638 | 551 | 531 | 575 | 1285 |
| | 1% | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 2004 | 1980 | 1752 | 1993 | 2216 | 4343 |
| | 2% | 4% | 3% | 4% | 4% | 6% |
| grade 6 events | 1249 | 1160 | 951 | 1092 | 1133 | 14884 |
| | 1% | 2% | 1% | 2% | 2% | 22% |
| grade 7 events | 37998 | 37543 | 41054 | 40633 | 43654 | 36195 |
| | 54% | 81% | 83% | 82% | 83% | 54% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| Pointing RA | 15.892894 | 15.8220159701976 | Subarray requested | NONE | NONE |
| Pointing Dec | -72.152366 | -72.13573057920814 | Alternating exposures requested | N | N |
| Pointing Roll | 112.257372 | 112.3985896452287 | Primary exposure time | 0.000000 | 3.2 |
| Window start time | 139276864.184000 | 139276864.184000 | | | |
| Window stop time | 141782464.184000 | 141782464.184000 | | | |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -233.592463 | -233.5874344608287 | | | |
| SIM translation stage offset (mm) | 0 | -0.005018542100998502 | | | |
| Observation start time | 141055413.184000 | 141055037.25062 | | | |
| Observation start date | 2002-06-21T14:02:29 | 2002-06-21T13:57:17 | | | |
| Observation end time | 141063313.184000 | 141063446.86346 | | | |
| Observation end date | 2002-06-21T16:14:09 | 2002-06-21T16:17:26 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



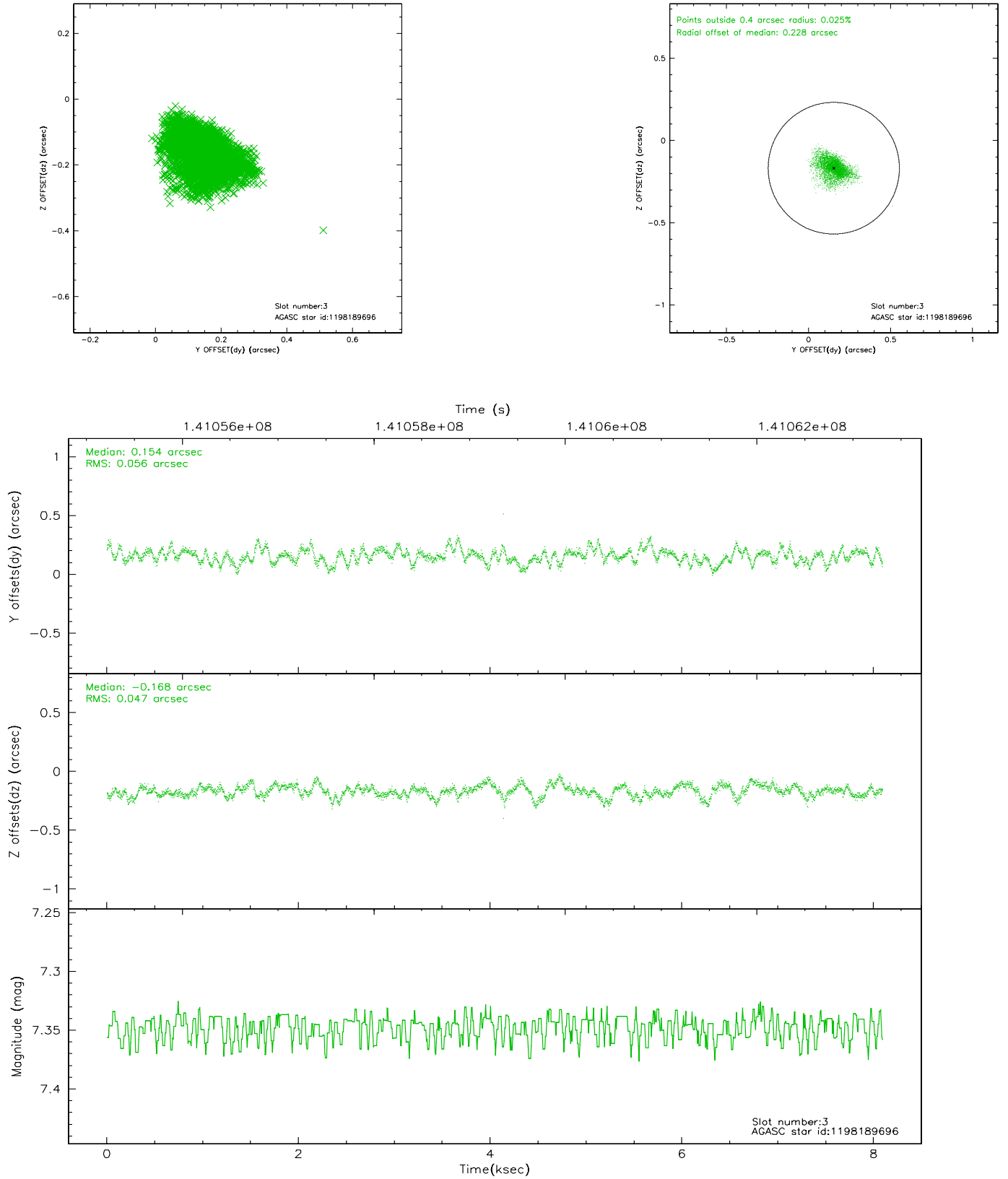


Slot Statistics

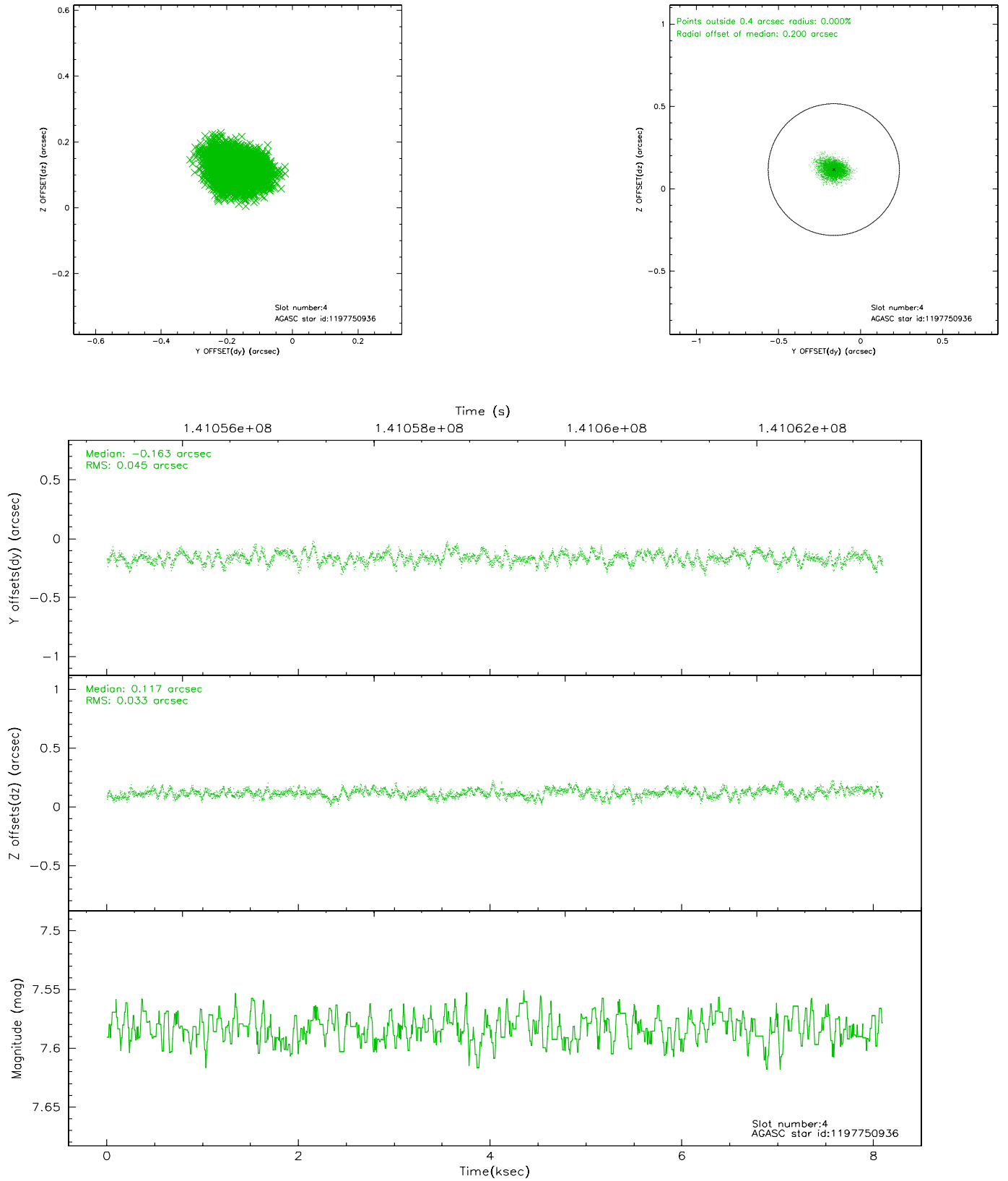
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|-------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 1974 | -0.021 | 0.040 | 0.006 | 0.010 | 0.000000 | 0.000000 | 937.23 | -830.19 |
| 1 | FID | ACIS-I-5 | 7.24 | 1974 | -0.023 | 0.041 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1810.45 | 1067.02 |
| 2 | FID | ACIS-I-6 | 7.26 | 1974 | -0.046 | -0.011 | 0.006 | 0.010 | 0.000000 | 0.000000 | 402.06 | 1712.21 |
| 3 | GUIDE | 1198189696 | 7.35 | 3948 | 0.154 | -0.168 | 0.077 | 0.131 | 15.223750 | -72.697522 | -1547.92 | 1408.55 |
| 4 | GUIDE | 1197750936 | 7.58 | 3948 | -0.163 | 0.117 | 0.059 | 0.097 | 15.387940 | -71.549550 | 2224.24 | -287.07 |
| 5 | GUIDE | 1197884536 | 8.50 | 3947 | -0.023 | 0.015 | 0.067 | 0.112 | 17.160729 | -71.835289 | 505.10 | -1742.59 |
| 6 | GUIDE | 1198283128 | 7.61 | 3948 | 0.059 | 0.097 | 0.059 | 0.093 | 17.272580 | -72.642428 | -2208.73 | -696.24 |
| 7 | GUIDE | 1197749416 | 10.30 | 3943 | -0.023 | -0.069 | 0.196 | 0.326 | 13.610513 | -71.871242 | 1860.08 | 2001.24 |

2.4 Star Slots

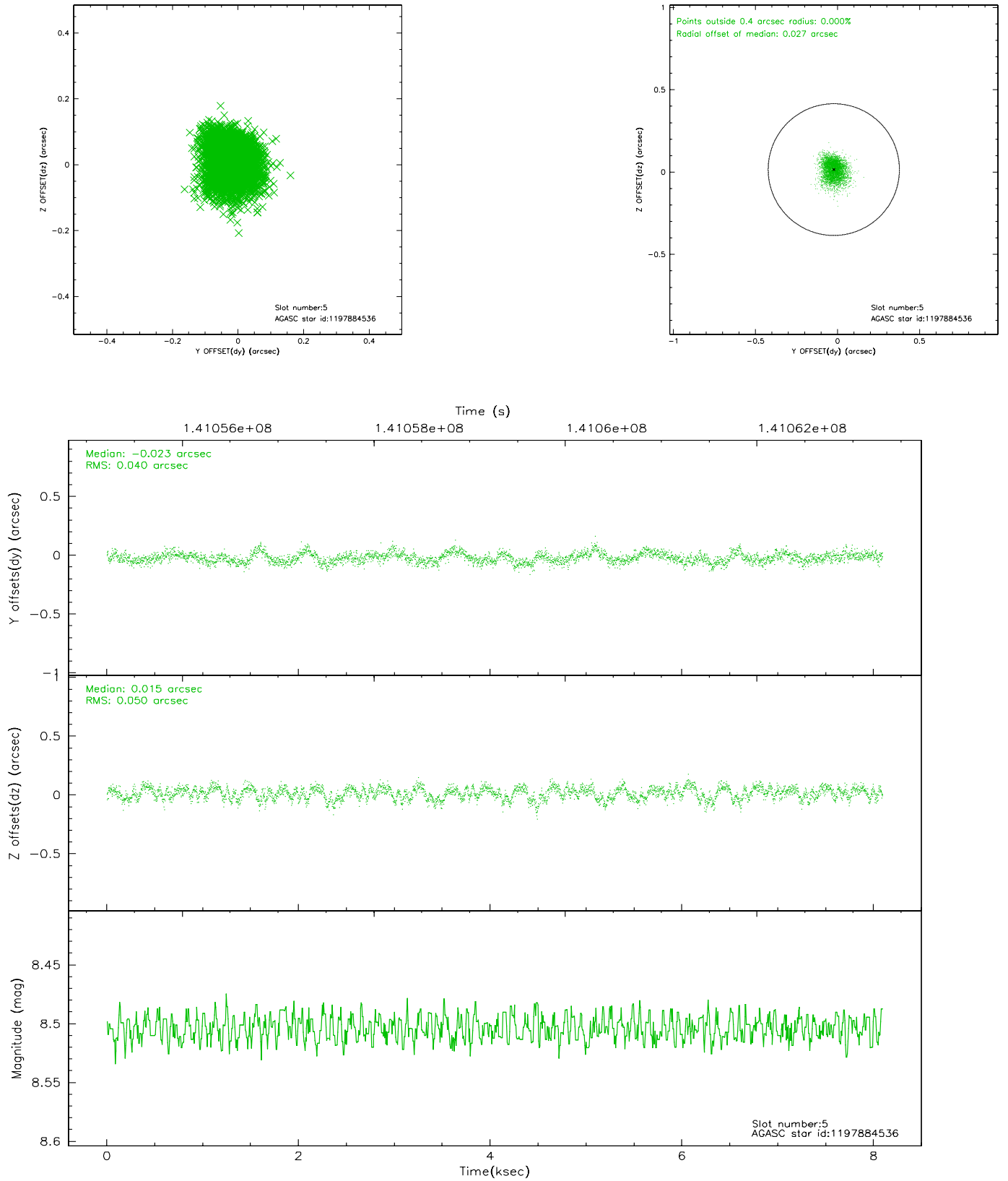
2.4.1 Slot 3



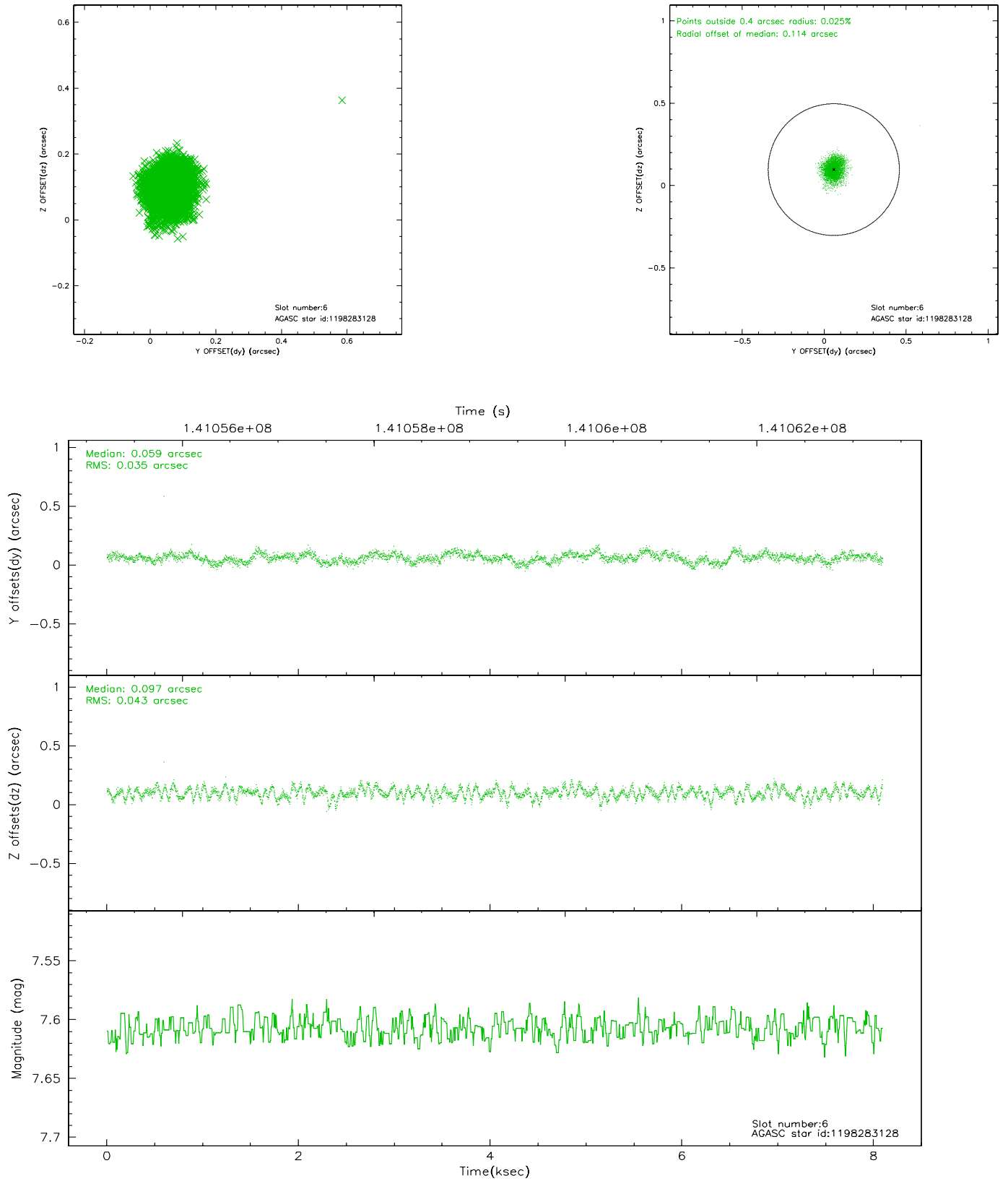
2.4.2 Slot 4



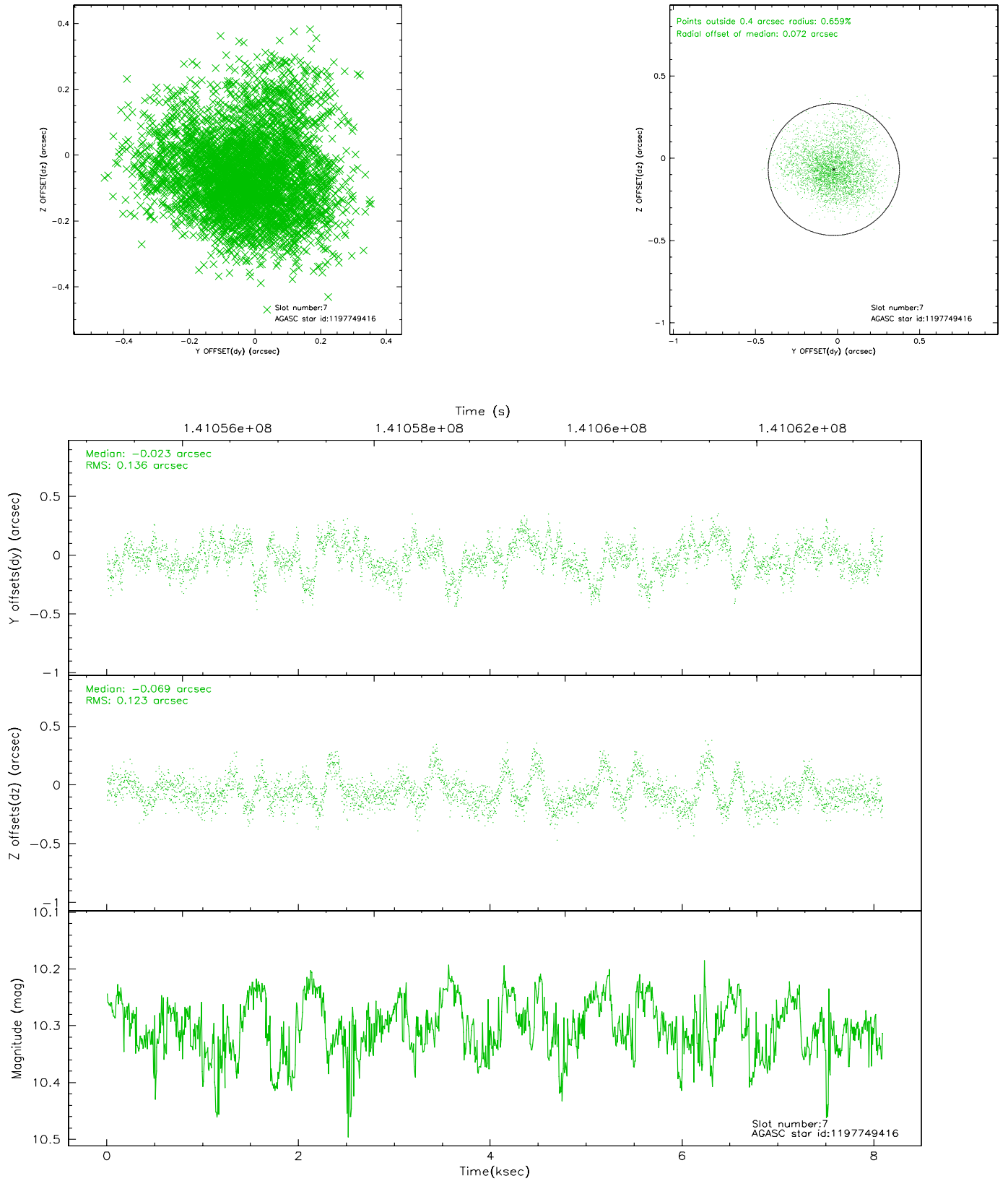
2.4.3 Slot 5



2.4.4 Slot 6

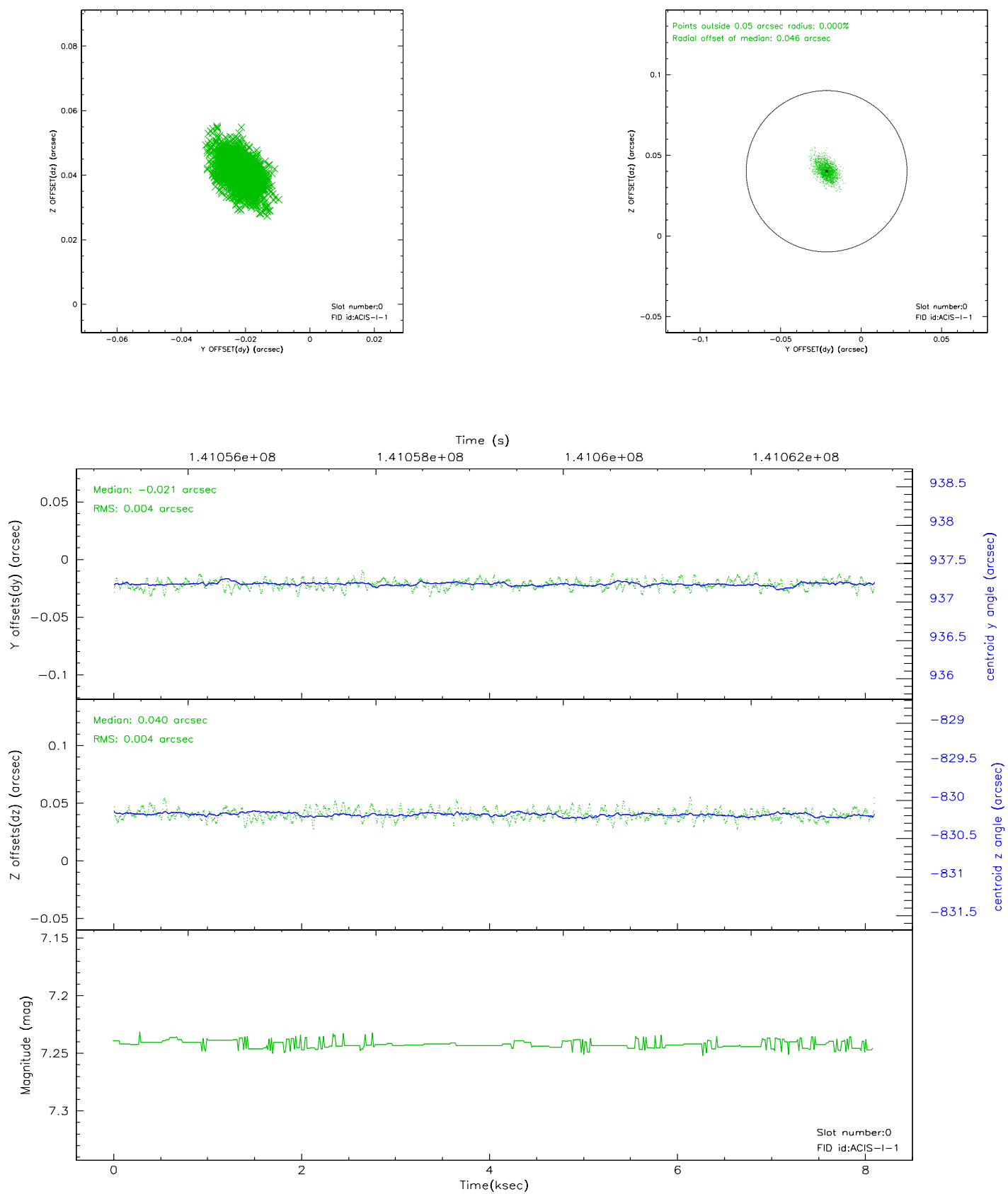


2.4.5 Slot 7

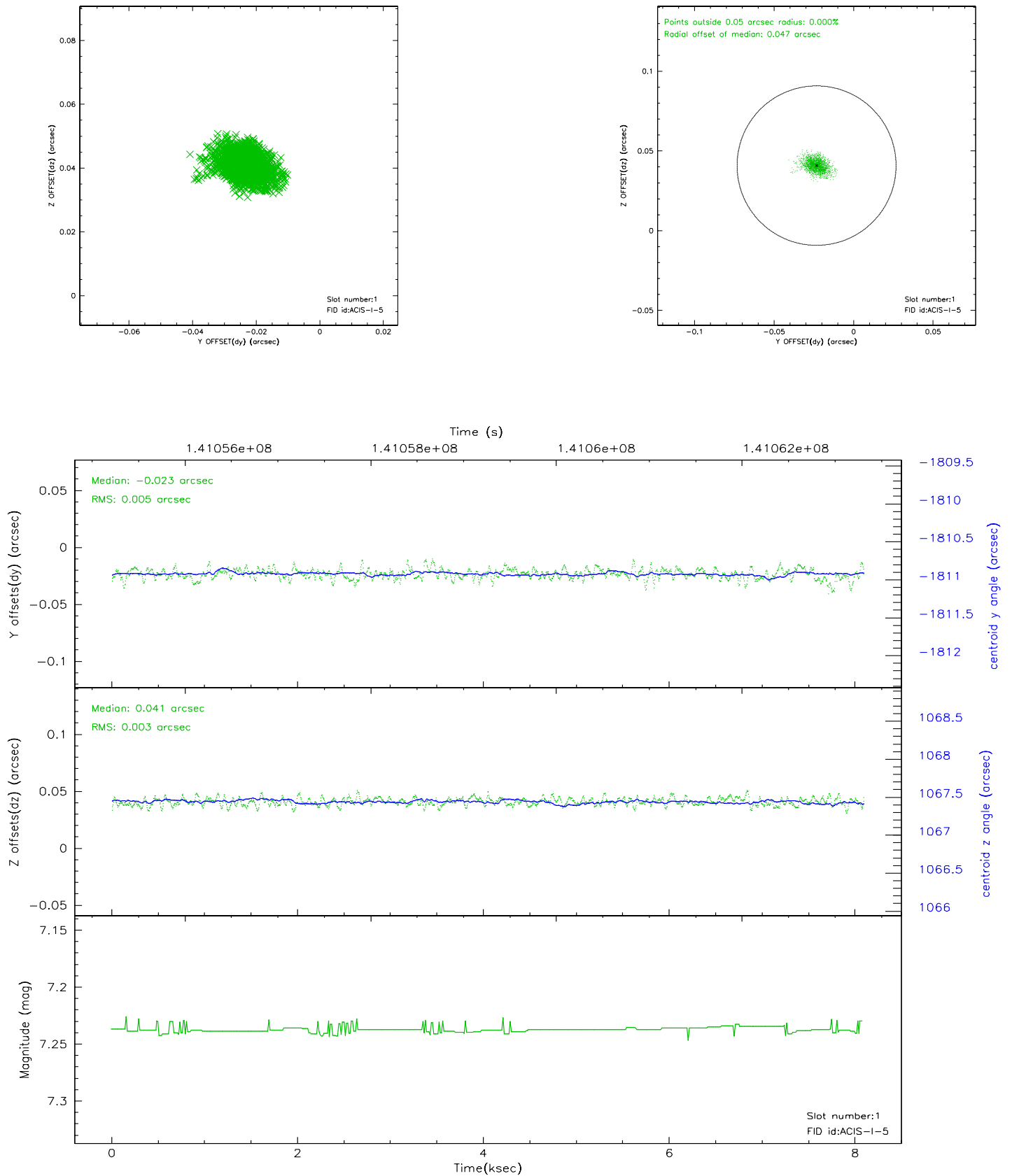


2.5 FID Slots

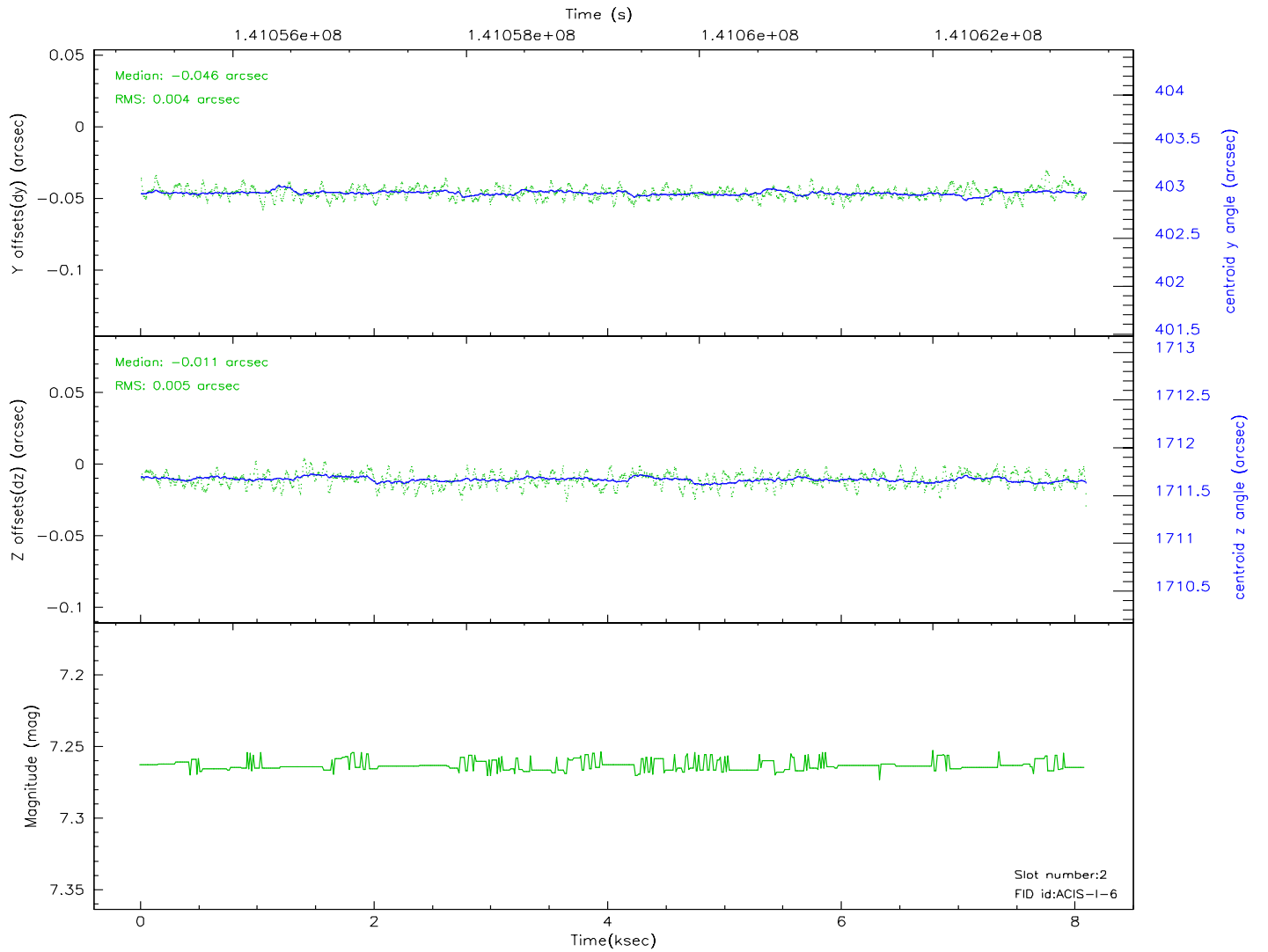
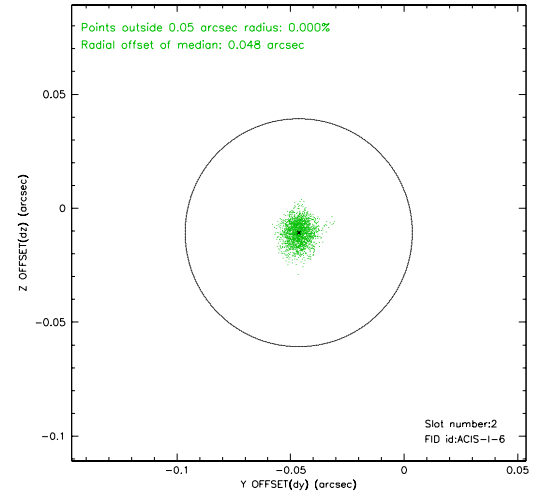
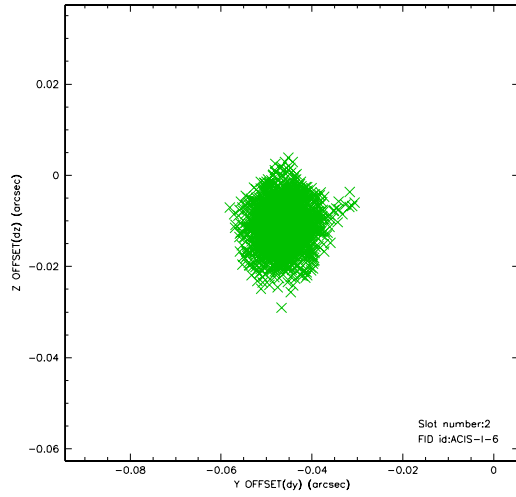
2.5.1 Slot 0



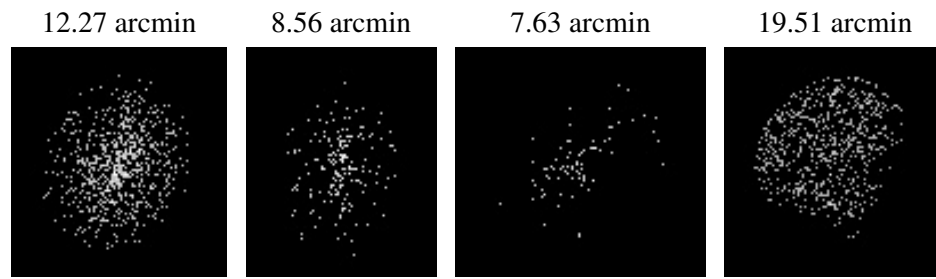
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2006.09.21 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.66 |

A.2 Comments