

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6056 - L2 Version 002
Chandra X-Ray Center

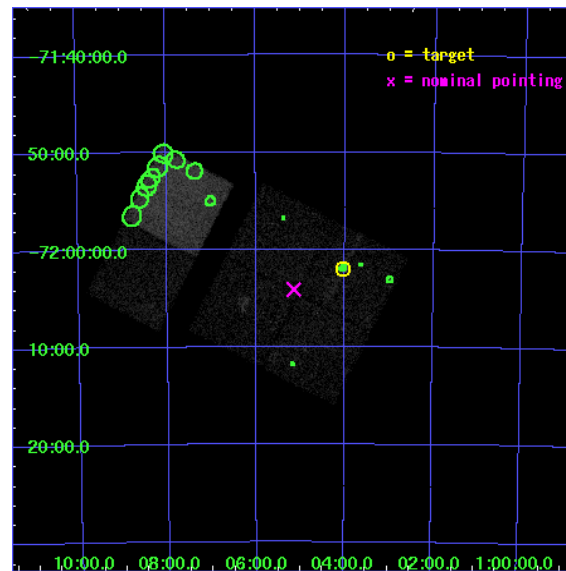
L2 Processing Date : Apr 8 2006

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1 Front

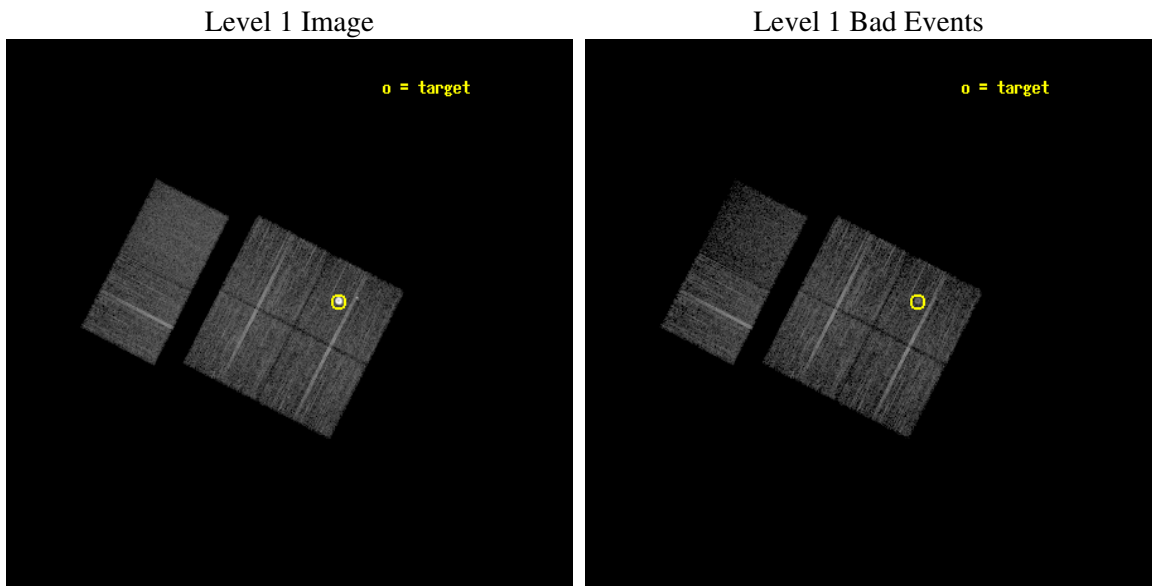
| | |
|----------|--|
| seq_num | 590383 |
| obs_id | 6056 |
| title | AO6A ACIS-I Calibration Observations of E0102-72 |
| observer | Dr. CXC Calibration |
| object | E0102-72[I1,-120,-4.0,-3.68,0] |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 16.01 |
| dec_targ | -72.032028 |
| ra_nom | 16.28633483939 |
| dec_nom | -72.068392186043 |
| roll_nom | 297.17286134161 |
| revision | 2 |
| ontime | 8111.9589795768 |
| livetime | 8009.2404705421 |
| ontime0 | 8115.1999697685 |
| ontime1 | 8111.9589795768 |
| ontime2 | 8111.9590293765 |
| ontime3 | 8115.1999697685 |
| ontime6 | 8115.1999697685 |
| ontime7 | 8115.1999697685 |
| l2events | 69925 |



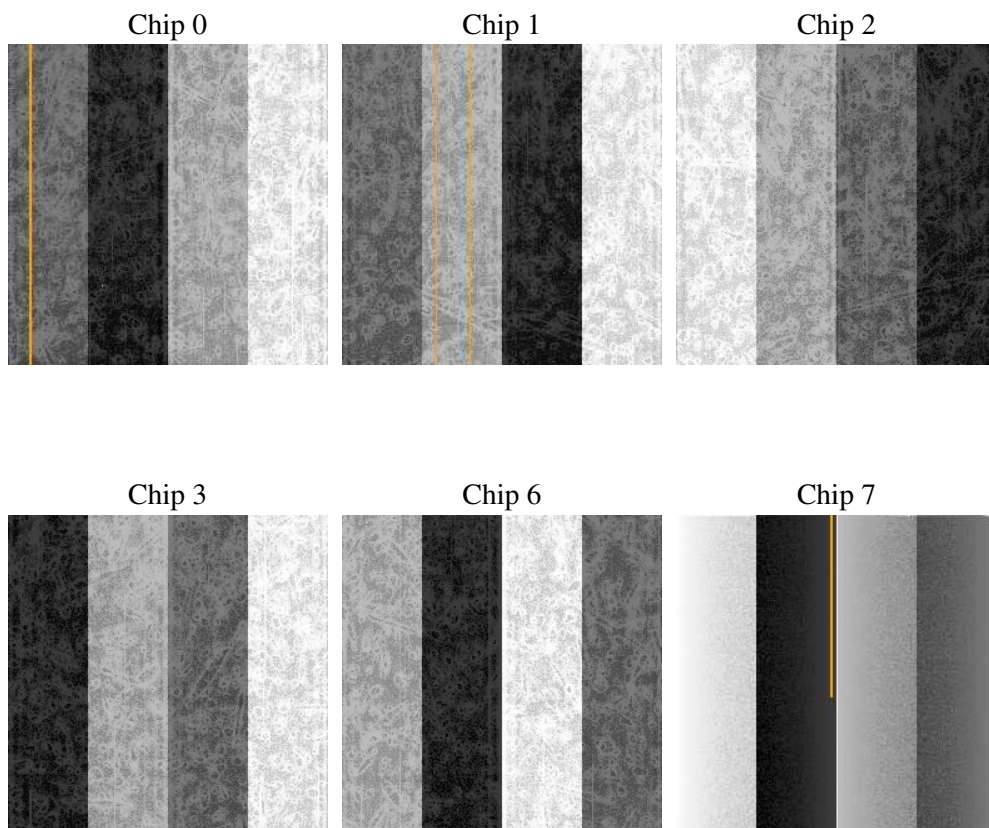
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.7.1 |
| caldsver | 3.2.1 |
| date | 2006-04-08T21:41:39 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 8000.000000 |
| ontime | 9091.0088394284 |
| ontime0 | 9094.2497997284 |
| ontime1 | 9091.0088394284 |
| ontime2 | 9091.0088892281 |
| ontime3 | 9094.2498296201 |
| ontime6 | 9094.2497997284 |
| ontime7 | 9094.2498296201 |
| l1events | 360276 |

2.1.4 Events

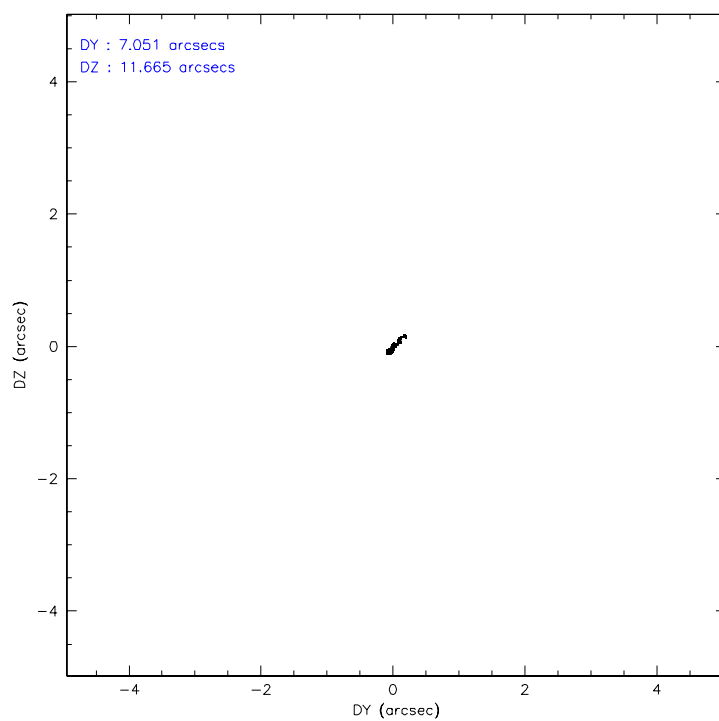
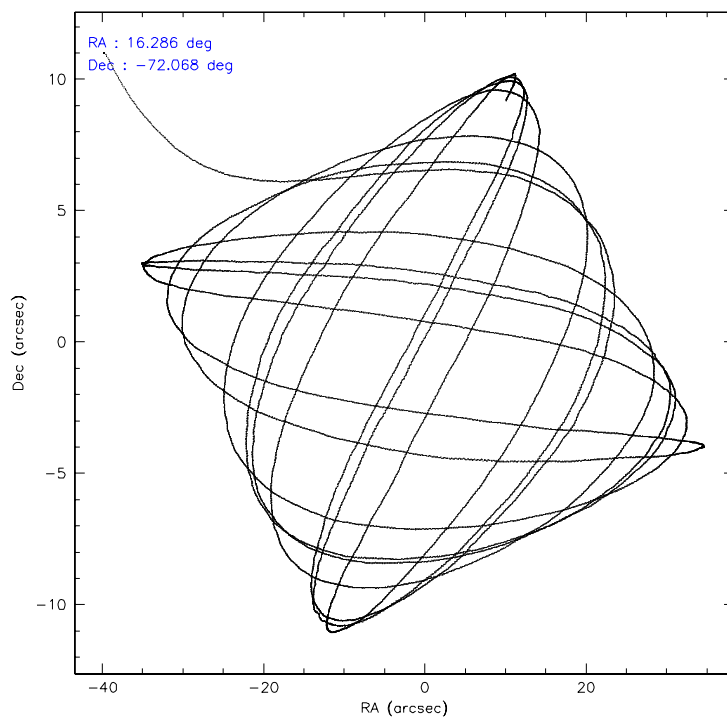
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 52633 | 75986 | 59308 | 57181 | 57999 | 57169 |
| rejected events | 47142 | 46704 | 54003 | 52313 | 52555 | 31298 |
| rejected % | 89% | 61% | 91% | 91% | 90% | 54% |

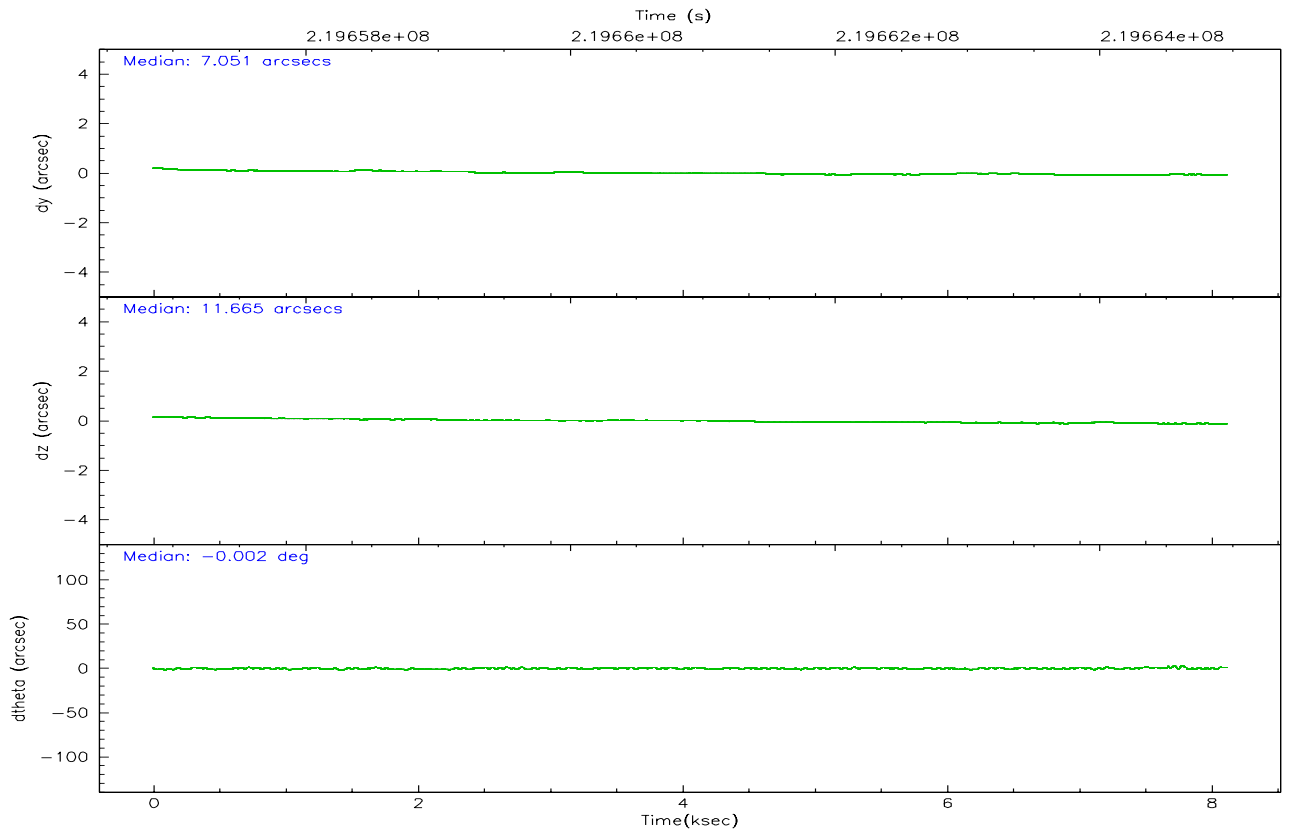
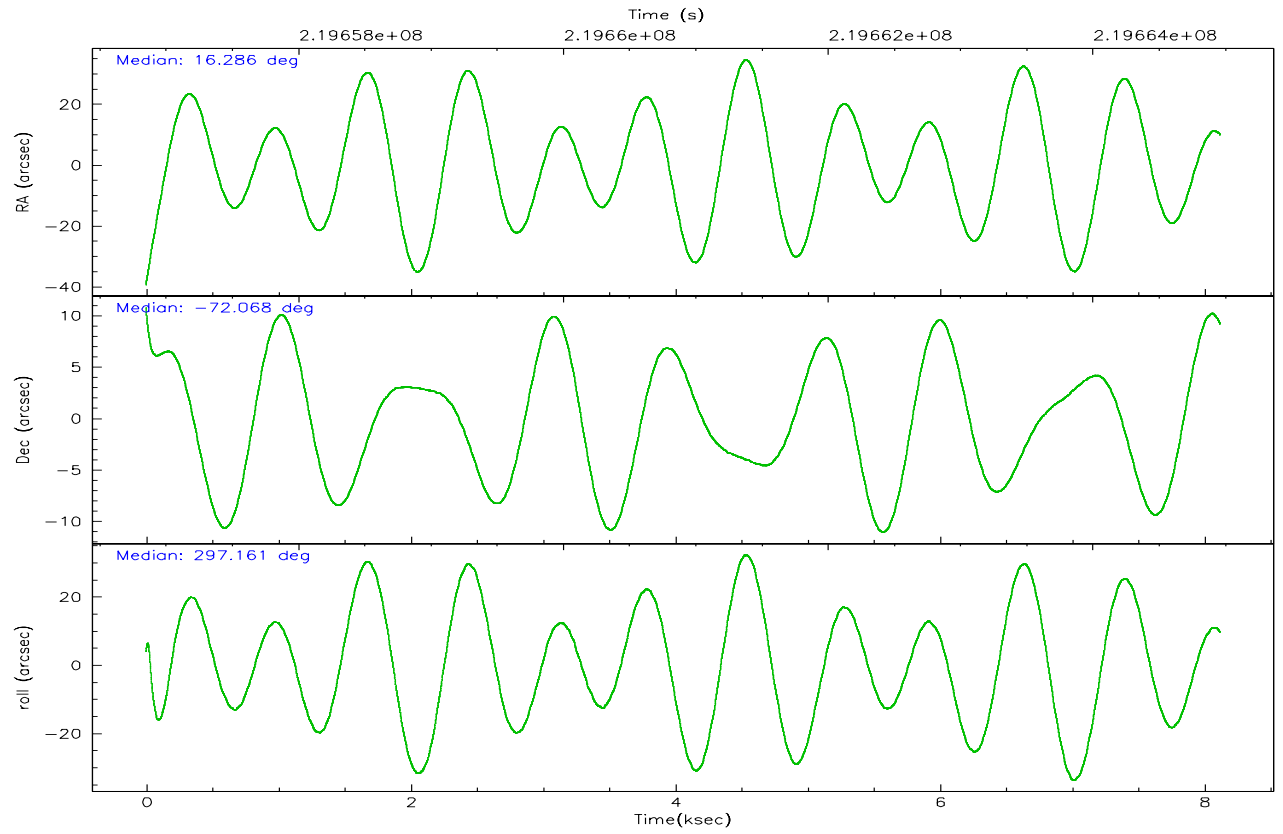
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 2513 | 24039 | 2570 | 2140 | 2362 | 2079 |
| | 4% | 31% | 4% | 3% | 4% | 3% |
| grade 1 events | 29 | 222 | 43 | 32 | 22 | 31 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1317 | 3068 | 1274 | 1088 | 1274 | 7183 |
| | 2% | 4% | 2% | 1% | 2% | 12% |
| grade 3 events | 660 | 1120 | 565 | 619 | 619 | 1724 |
| | 1% | 1% | 0% | 1% | 1% | 3% |
| grade 4 events | 566 | 1083 | 595 | 586 | 647 | 1761 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 5 events | 1611 | 1765 | 1478 | 1867 | 1914 | 4212 |
| | 3% | 2% | 2% | 3% | 3% | 7% |
| grade 6 events | 974 | 1243 | 865 | 985 | 1166 | 15649 |
| | 1% | 1% | 1% | 1% | 2% | 27% |
| grade 7 events | 44963 | 43446 | 51918 | 49864 | 49995 | 24530 |
| | 85% | 57% | 87% | 87% | 86% | 42% |

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 | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 16.211422 | 16.28633483938957 | Alternating exposures requested | N | N |
| Pointing Dec | -72.053698 | -72.06839218604304 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 296.892828 | 297.1728613416064 | | | |
| Window start time | 215654464.184000 | 215654464.184000 | | | |
| Window stop time | 220838464.184000 | 220838464.184000 | | | |
| 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 | 219656964.184000 | 219655435.94232 | | | |
| Observation start date | 2004-12-17T07:48:20 | 2004-12-17T07:23:55 | | | |
| Observation end time | 219664964.184000 | 219665557.30527 | | | |
| Observation end date | 2004-12-17T10:01:40 | 2004-12-17T10:12:37 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



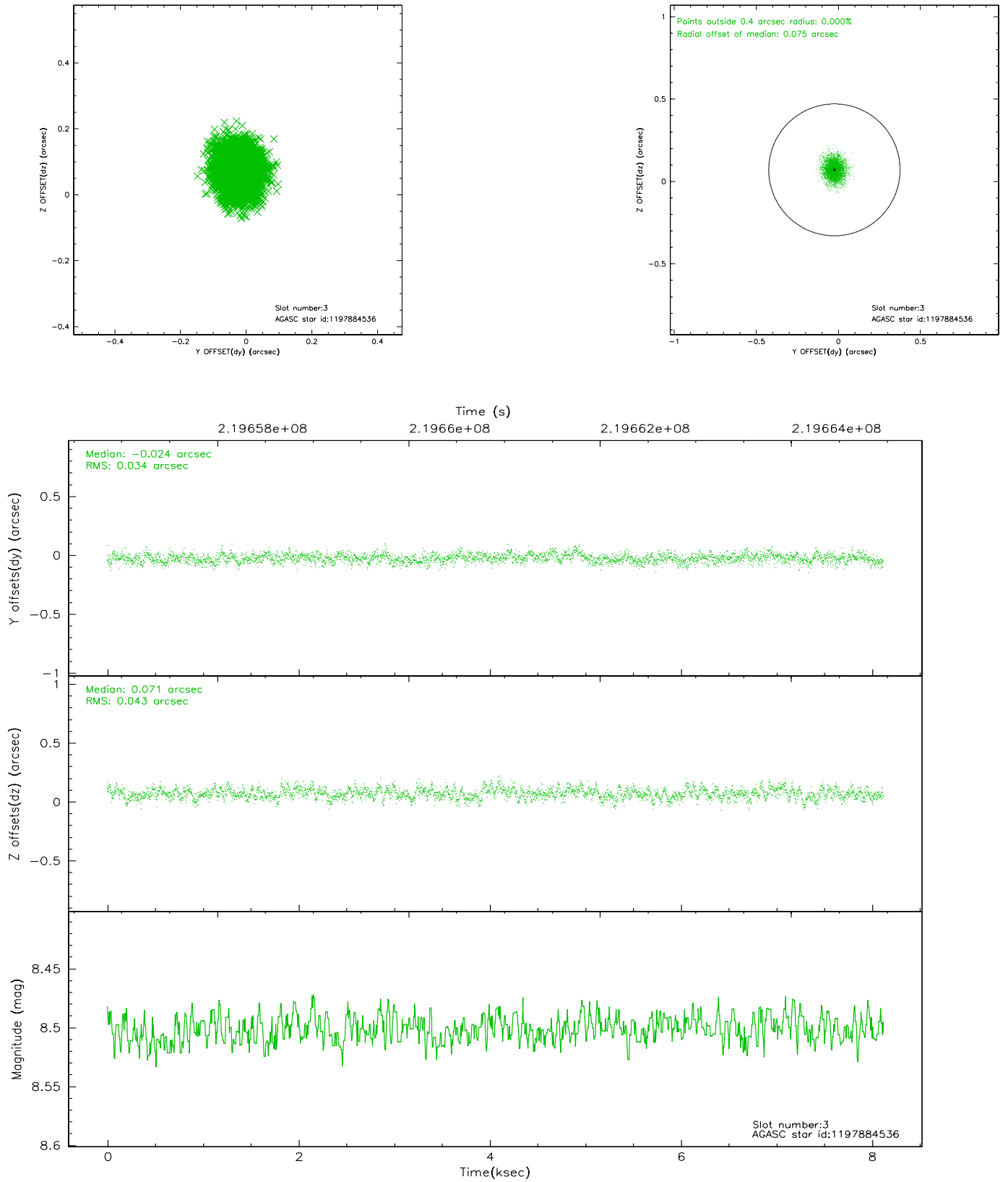


Slot Statistics

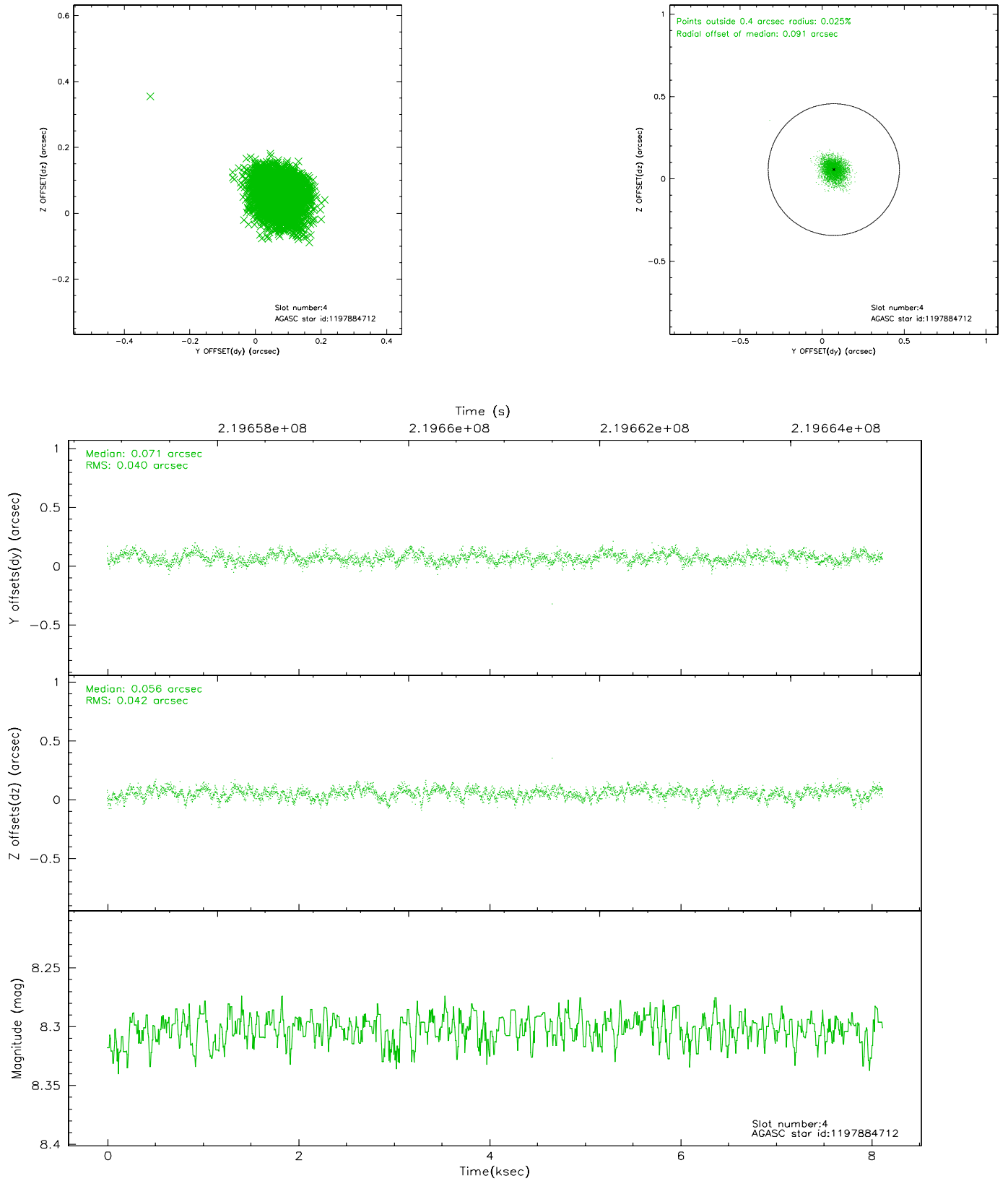
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-I-2 | 7.14 | 1981 | -0.071 | -0.086 | 0.010 | 0.017 | 0.000000 | 0.000000 | -761.62 | -841.63 |
| 1 | FID | ACIS-I-4 | 7.18 | 1981 | 0.093 | 0.068 | 0.007 | 0.013 | 0.000000 | 0.000000 | 2152.28 | 1064.36 |
| 2 | FID | ACIS-I-5 | 7.22 | 1981 | -0.124 | 0.087 | 0.009 | 0.015 | 0.000000 | 0.000000 | -1814.63 | 1063.00 |
| 3 | GUIDE | 1197884536 | 8.50 | 3961 | -0.024 | 0.071 | 0.059 | 0.097 | 17.160729 | -71.835289 | -211.71 | 1301.90 |
| 4 | GUIDE | 1197884712 | 8.30 | 3963 | 0.071 | 0.056 | 0.061 | 0.100 | 16.087398 | -72.252690 | 578.07 | -445.09 |
| 5 | GUIDE | 1197885104 | 9.35 | 3957 | 0.098 | -0.024 | 0.085 | 0.135 | 17.845067 | -72.189368 | 1271.56 | 1371.88 |
| 6 | GUIDE | 1197885328 | 7.23 | 3962 | -0.081 | -0.128 | 0.054 | 0.086 | 16.283090 | -71.733943 | -989.41 | 593.23 |
| 7 | GUIDE | 1198189696 | 7.38 | 3962 | -0.063 | 0.024 | 0.054 | 0.086 | 15.223750 | -72.697522 | 1597.24 | -1995.02 |

2.4 Star Slots

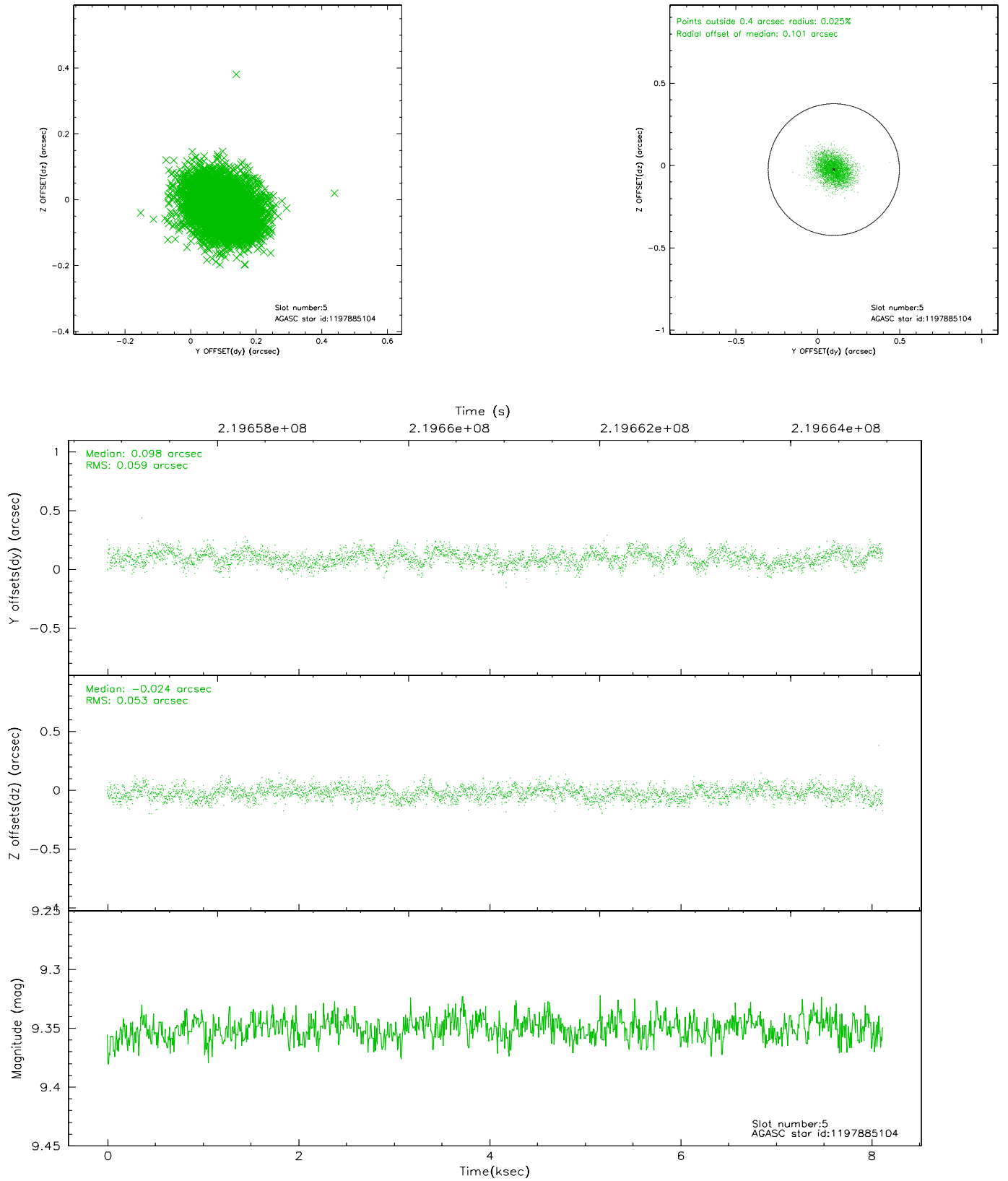
2.4.1 Slot 3



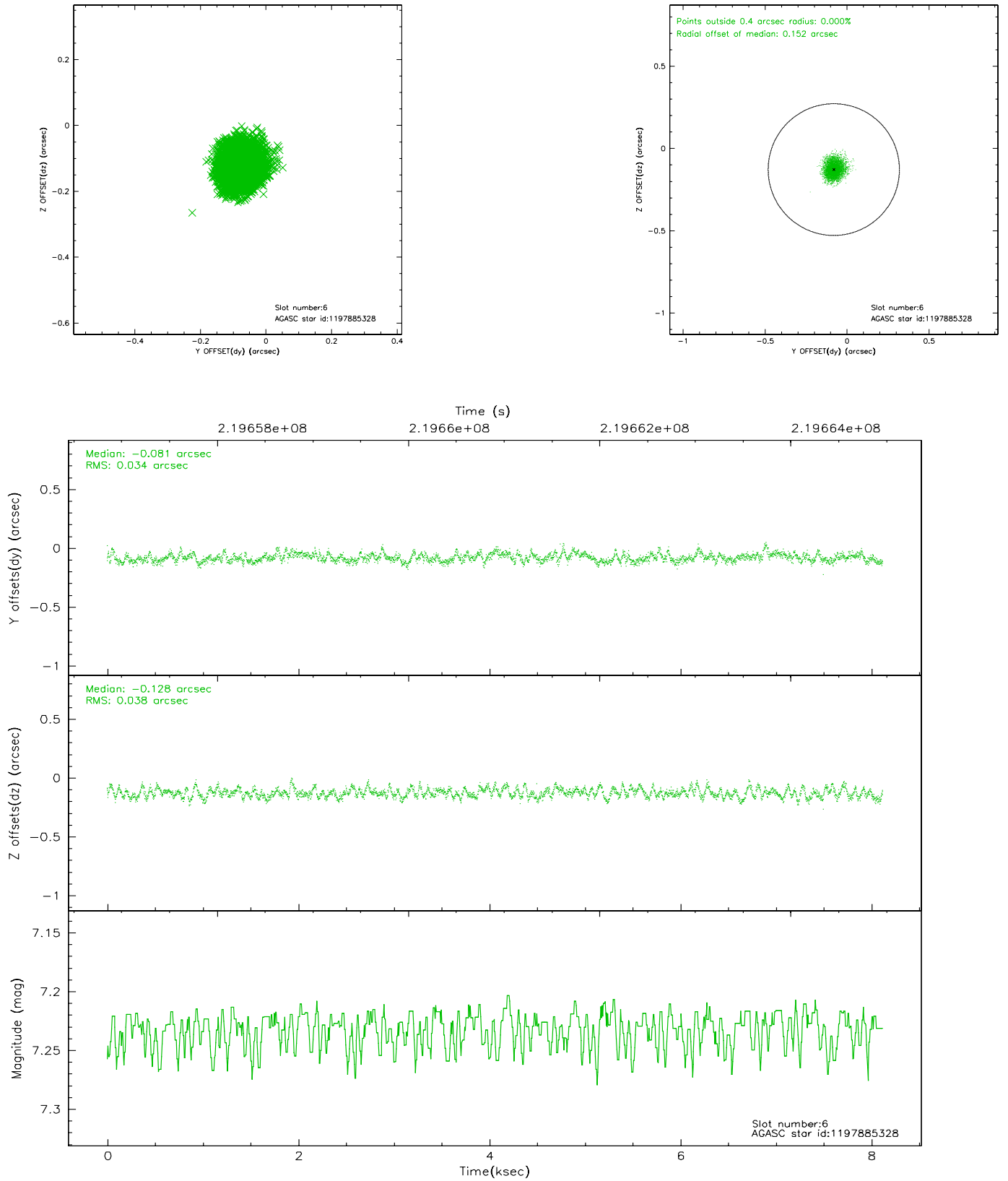
2.4.2 Slot 4



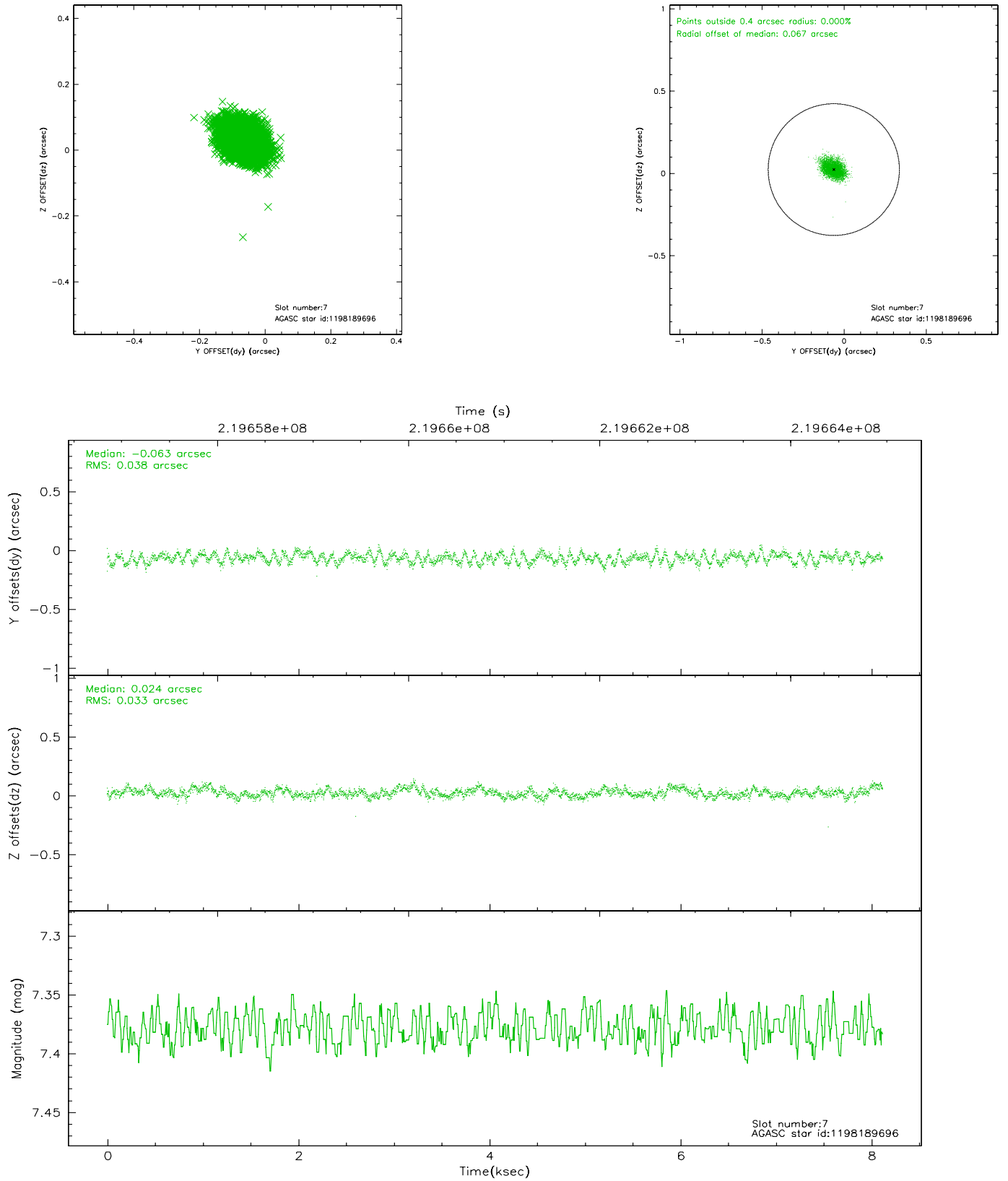
2.4.3 Slot 5



2.4.4 Slot 6

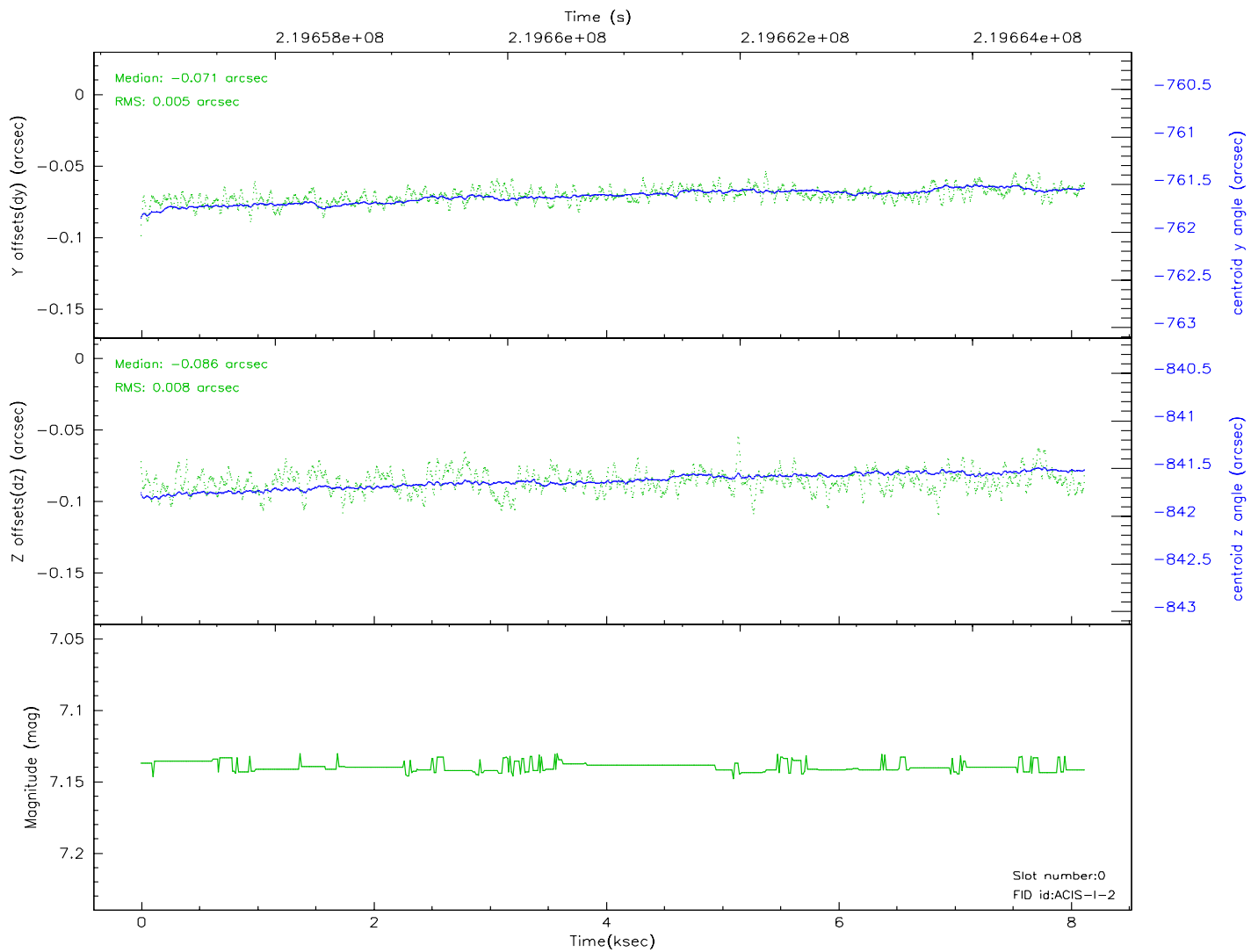
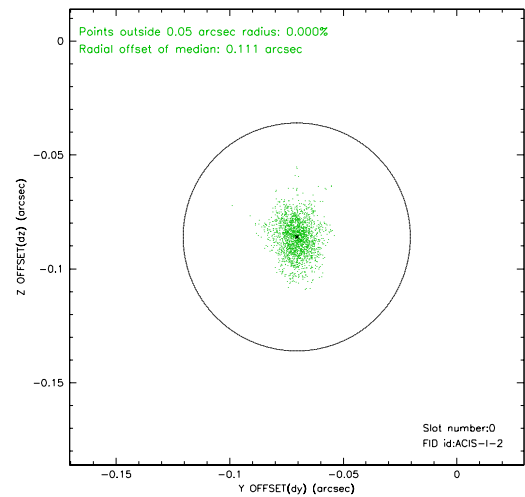
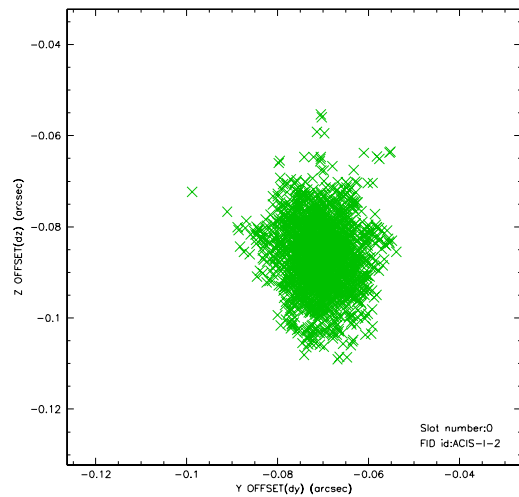


2.4.5 Slot 7

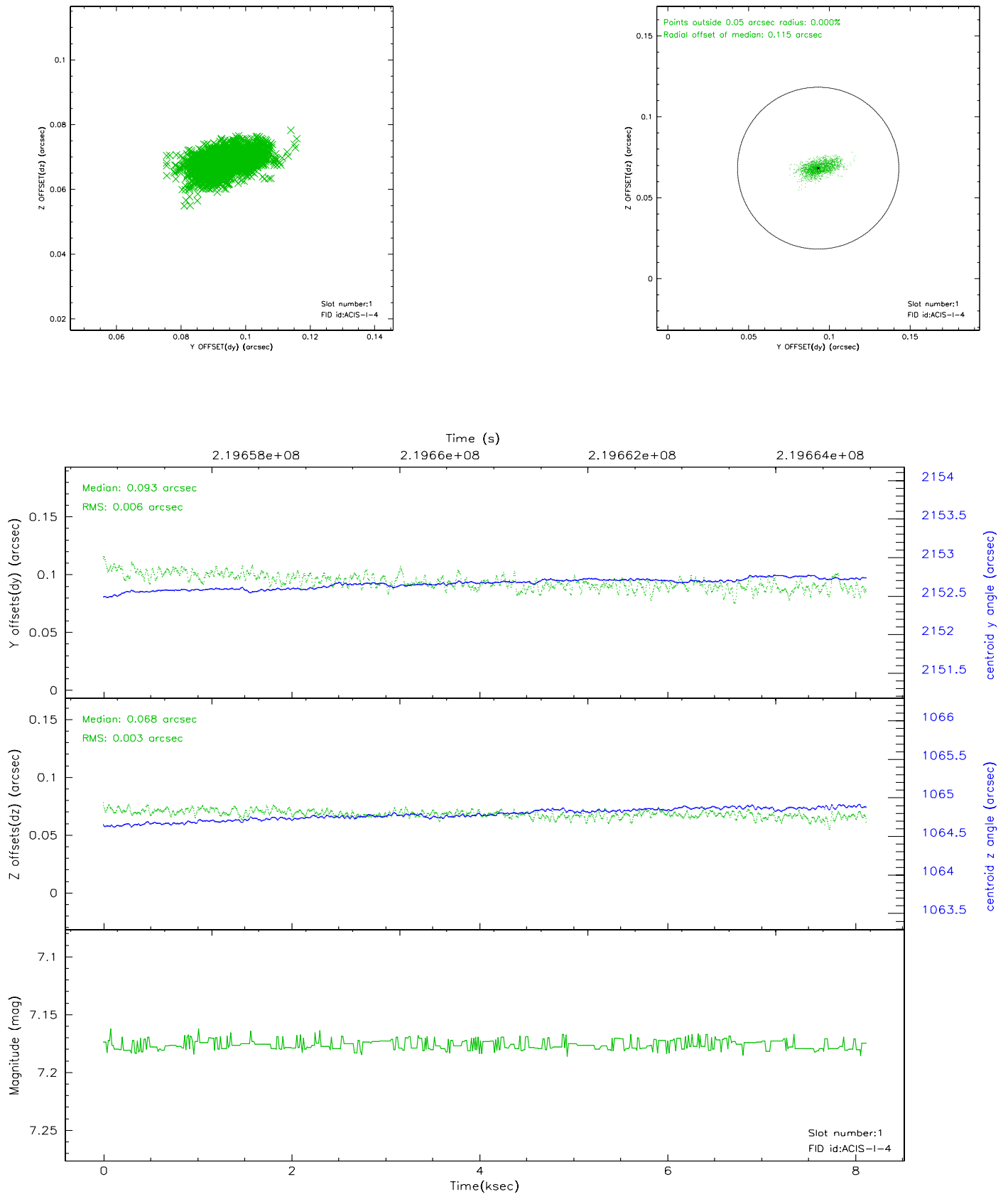


2.5 FID Slots

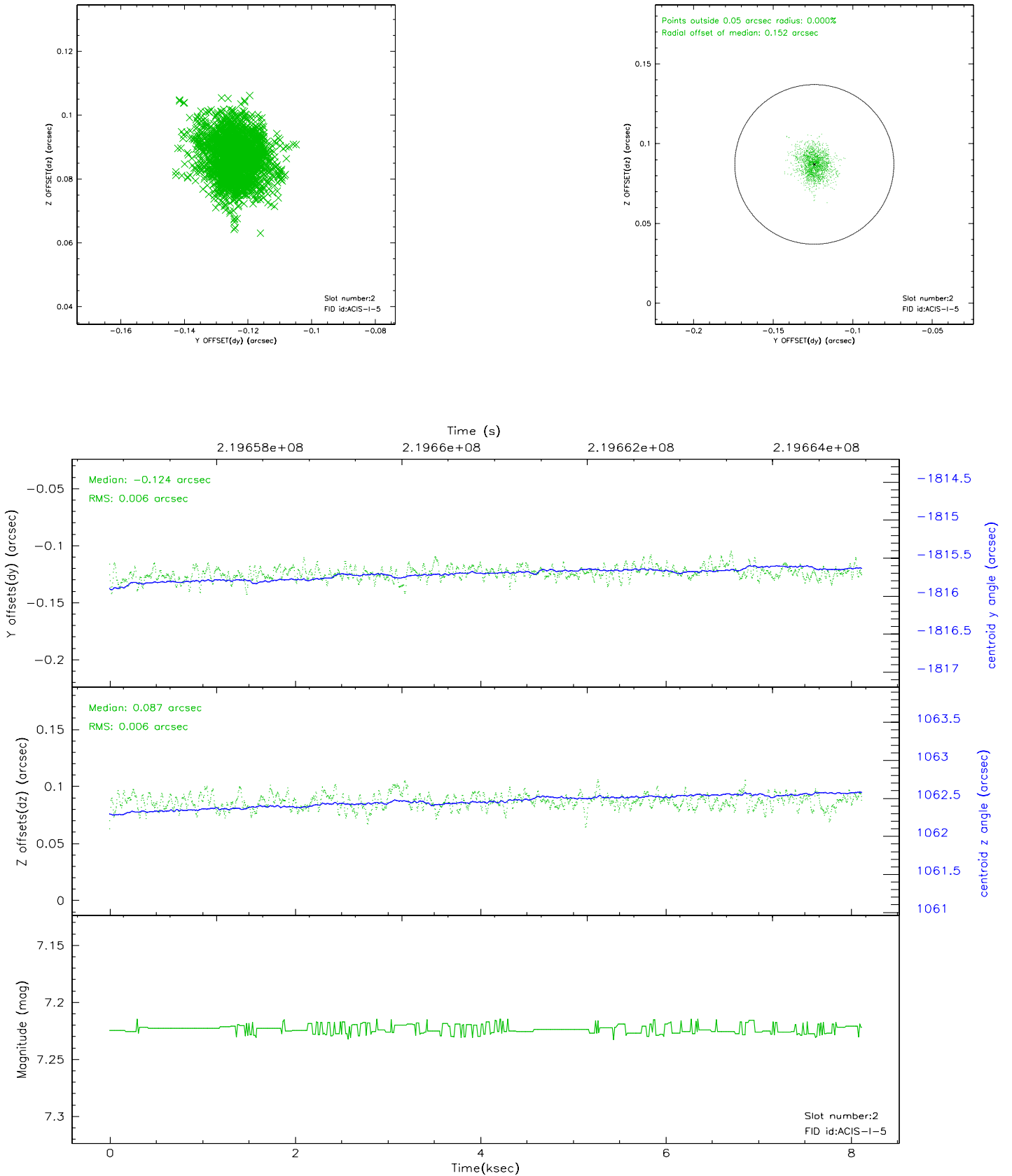
2.5.1 Slot 0



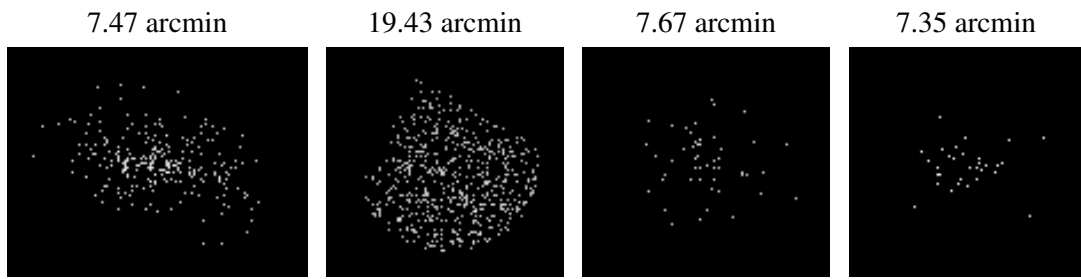
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.04.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.111958 |

A.2 Comments

Window constraint met.