

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 5357 - L2 Version 001
Chandra X-Ray Center

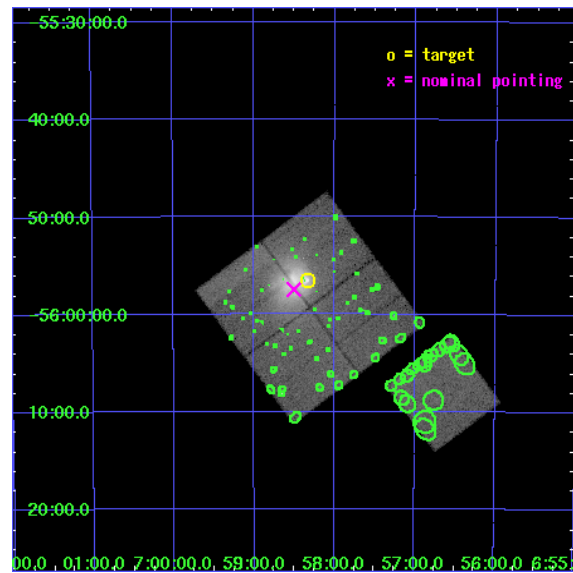
L2 Processing Date : May 23 2006

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1 Front

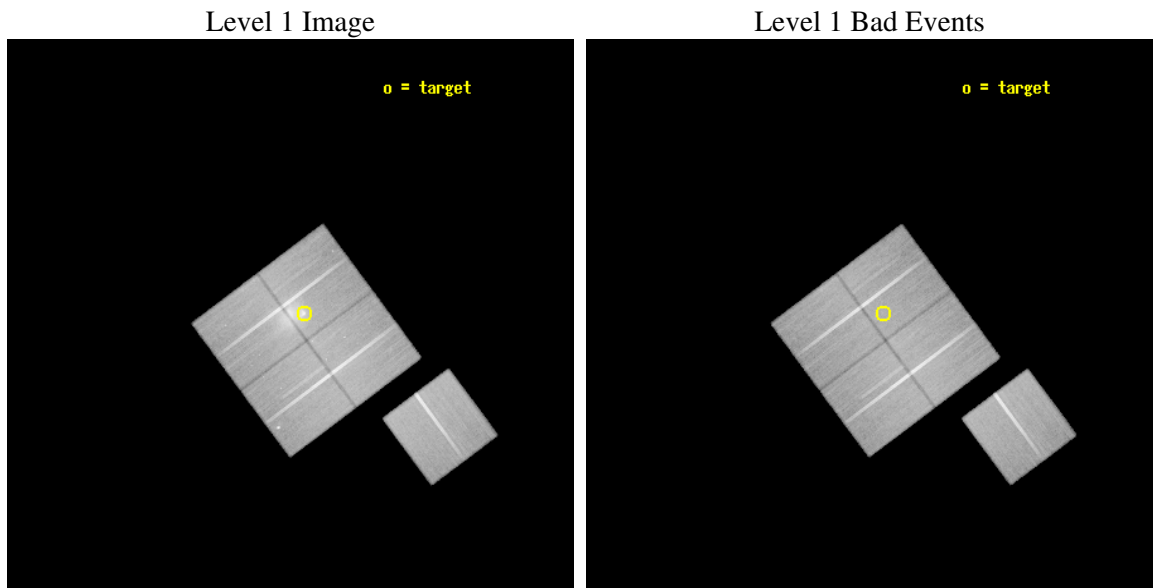
| | |
|----------|--|
| seq_num | 800429 |
| obs_id | 5357 |
| title | THE MOST INTERESTING CLUSTER IN THE UNIVERSE |
| observer | Dr Maxim Markevitch |
| object | 1E0657-56 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 104.5827 |
| dec_targ | -55.9415 |
| ra_nom | 104.62609682928 |
| dec_nom | -55.957556137856 |
| roll_nom | 143.24463913742 |
| revision | 2 |
| ontime | 80103.835885286 |
| livetime | 79057.220297859 |
| ontime0 | 80103.835885286 |
| ontime1 | 80106.976945221 |
| ontime2 | 80110.117905498 |
| ontime3 | 80100.694925129 |
| ontime6 | 80110.117855668 |
| l2events | 321260 |



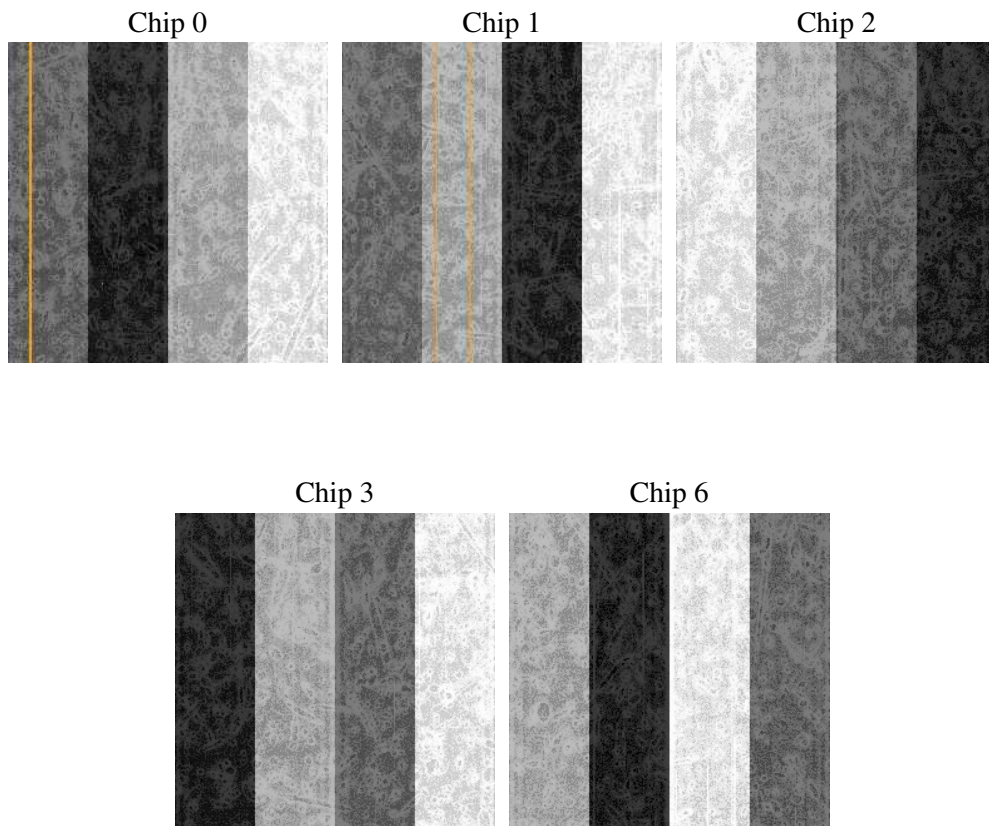
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.2 |
| caldsver | 3.2.2 |
| date | 2006-05-23T21:40:01 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 80000.000000 |
| ontime | 80670.376478434 |
| ontime0 | 80670.376478434 |
| ontime1 | 80673.517538369 |
| ontime2 | 80676.658498645 |
| ontime3 | 80667.235518277 |
| ontime6 | 80676.658448815 |
| l1events | 2660575 |

2.1.4 Events

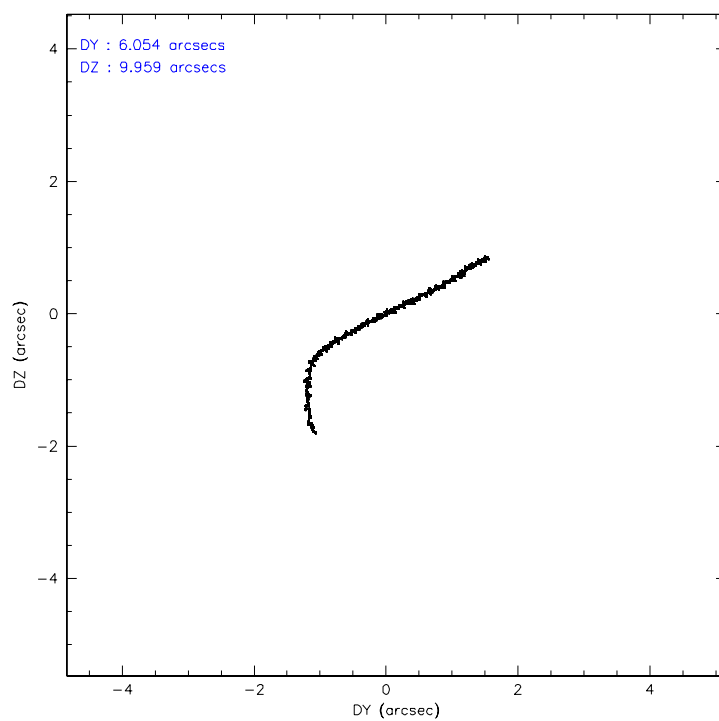
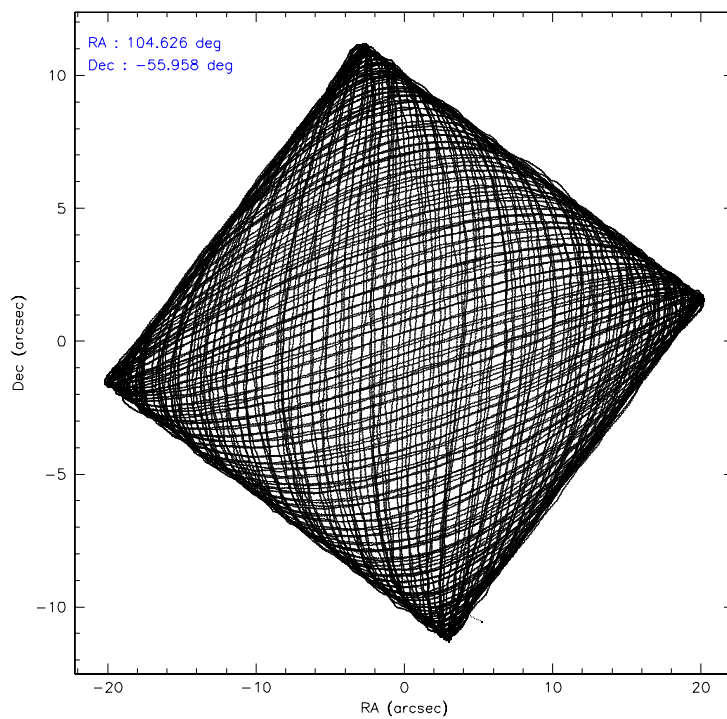
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 543461 | 526652 | 546698 | 525158 | 518606 |
| rejected events | 429114 | 425295 | 492802 | 472967 | 466541 |
| rejected % | 78% | 80% | 90% | 90% | 89% |

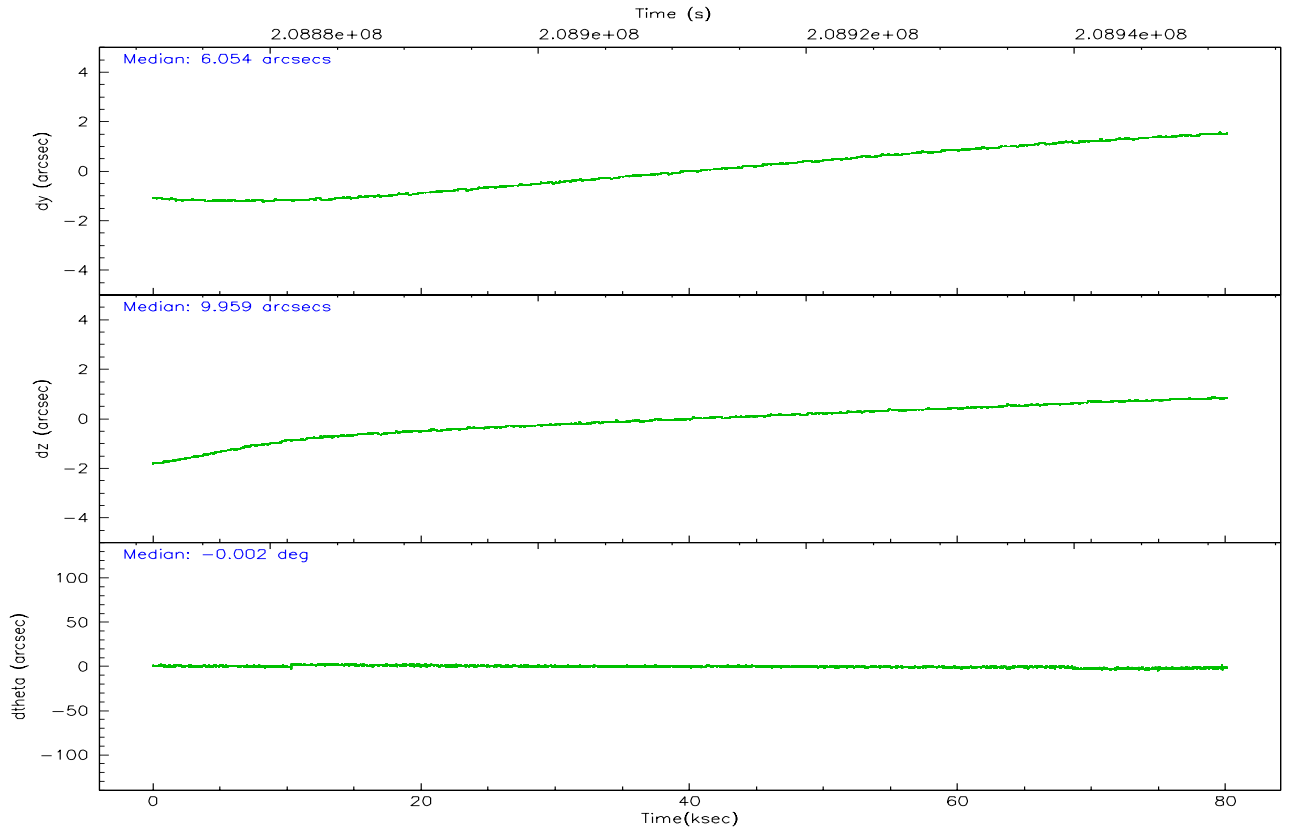
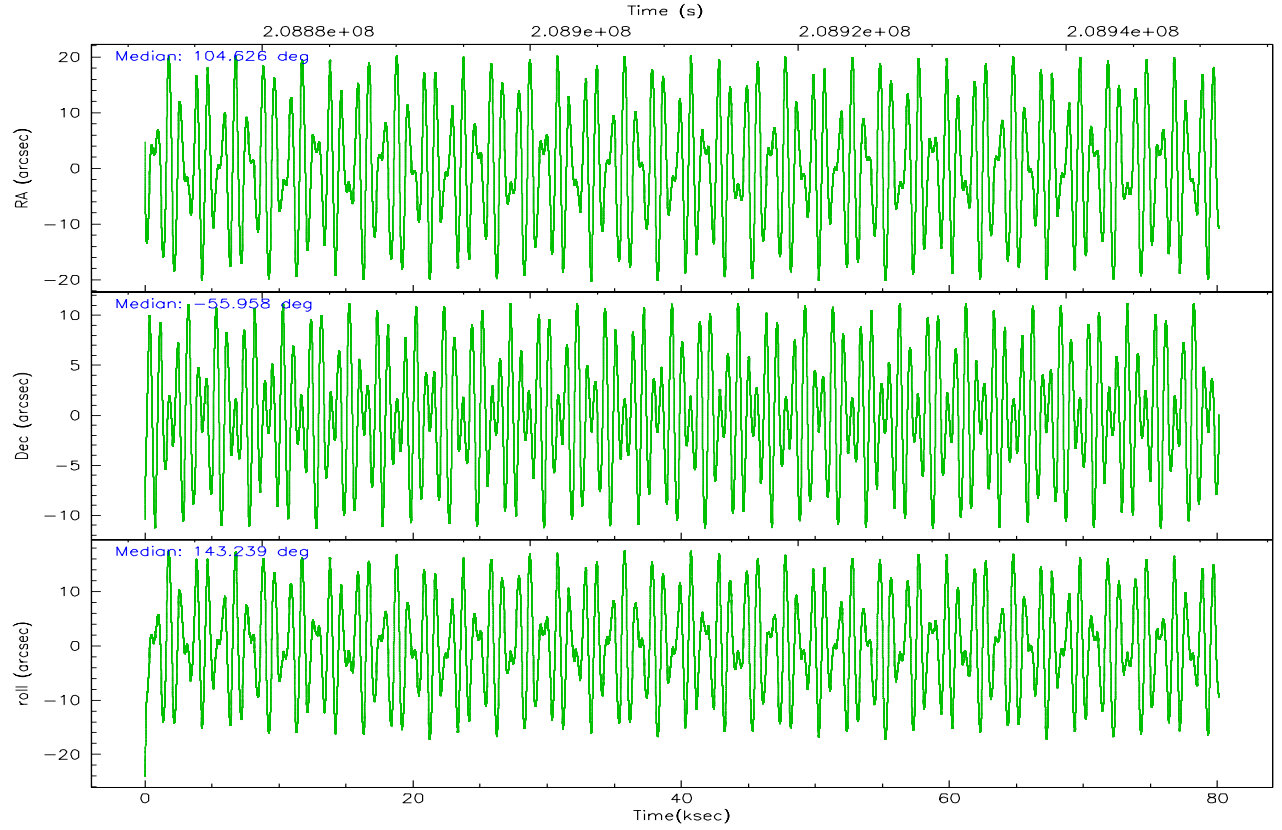
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|--------|--------|--------|--------|--------|
| grade 0 events | 69735 | 56823 | 21142 | 20825 | 18741 |
| | 12% | 10% | 3% | 3% | 3% |
| grade 1 events | 529 | 420 | 321 | 279 | 230 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 18534 | 17197 | 12338 | 10931 | 11302 |
| | 3% | 3% | 2% | 2% | 2% |
| grade 3 events | 7677 | 7767 | 5540 | 5608 | 5850 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 7469 | 7457 | 5892 | 5607 | 5692 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 17494 | 19117 | 16472 | 20046 | 19604 |
| | 3% | 3% | 3% | 3% | 3% |
| grade 6 events | 11515 | 12588 | 9363 | 9570 | 10826 |
| | 2% | 2% | 1% | 1% | 2% |
| grade 7 events | 410508 | 405283 | 475630 | 452292 | 446361 |
| | 75% | 76% | 87% | 86% | 86% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-01236 | ACIS-01236 | 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 | 104.674685 | 104.6260968292847 | Alternating exposures requested | N | N |
| Pointing Dec | -55.960653 | -55.95755613785551 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 143.076217 | 143.244639137425 | | | |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -242.592463 | -242.5987405016197 | | | |
| SIM translation stage offset (mm) | 9 | 9.006287498690028 | | | |
| Observation start time | 208871388.184000 | 208870146.63465 | | | |
| Observation start date | 2004-08-14T11:48:44 | 2004-08-14T11:29:06 | | | |
| Observation end time | 208951388.184000 | 208952312.1758 | | | |
| Observation end date | 2004-08-15T10:02:04 | 2004-08-15T10:18:32 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



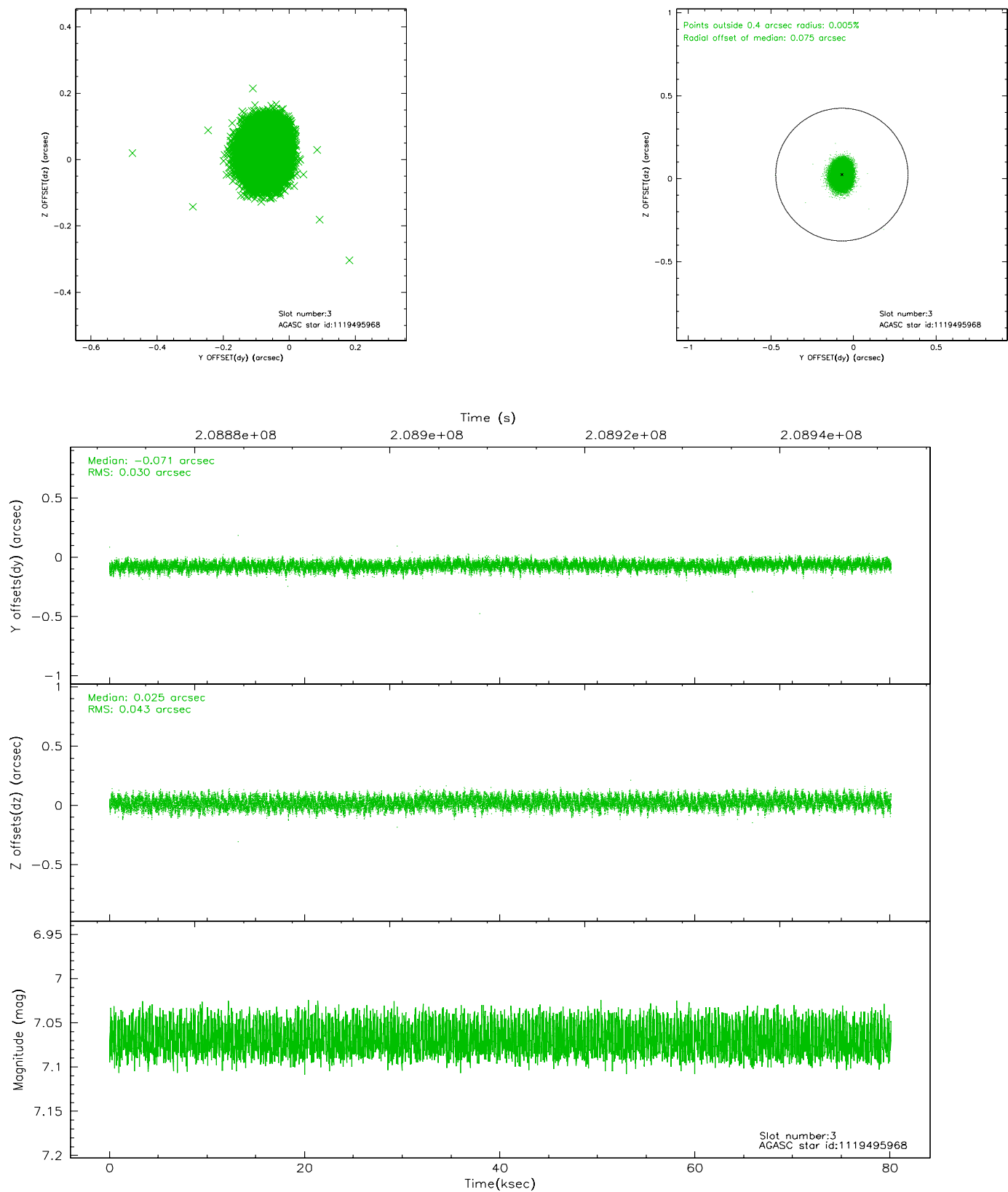


Slot Statistics

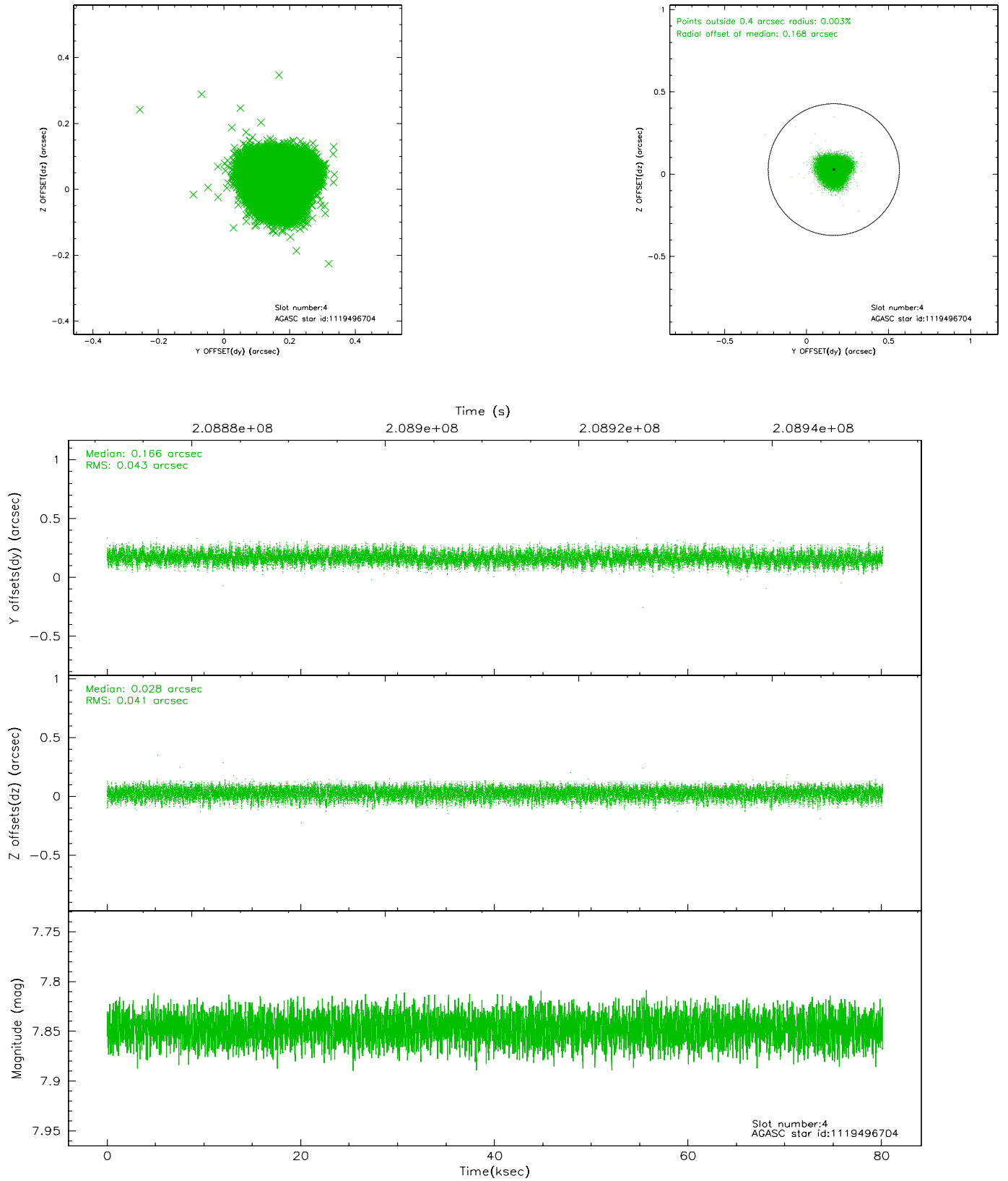
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-2 | 7.17 | 19539 | -0.001 | -0.014 | 0.037 | 0.065 | 0.000000 | 0.000000 | -759.90 | -655.81 |
| 1 | FID | ACIS-I-4 | 7.23 | 19541 | 0.086 | 0.011 | 0.025 | 0.041 | 0.000000 | 0.000000 | 2154.31 | 1250.52 |
| 2 | FID | ACIS-I-5 | 7.23 | 19542 | -0.180 | 0.063 | 0.026 | 0.046 | 0.000000 | 0.000000 | -1814.48 | 1249.45 |
| 3 | GUIDE | 1119495968 | 7.07 | 39084 | -0.071 | 0.025 | 0.056 | 0.089 | 105.873528 | -55.948238 | -1917.42 | -1470.85 |
| 4 | GUIDE | 1119496704 | 7.85 | 39076 | 0.166 | 0.028 | 0.064 | 0.102 | 104.368364 | -55.667750 | 1130.05 | -467.95 |
| 5 | GUIDE | 1119499792 | 7.25 | 39085 | -0.105 | -0.048 | 0.063 | 0.098 | 104.350048 | -56.101305 | 216.08 | 797.67 |
| 6 | GUIDE | 1120026344 | 6.71 | 39083 | 0.005 | -0.081 | 0.063 | 0.103 | 104.651539 | -56.394853 | -902.28 | 1277.56 |
| 7 | GUIDE | 1119500592 | 8.69 | 39067 | -0.000 | 0.083 | 0.092 | 0.147 | 105.814889 | -55.642715 | -1175.25 | -2291.16 |

2.4 Star Slots

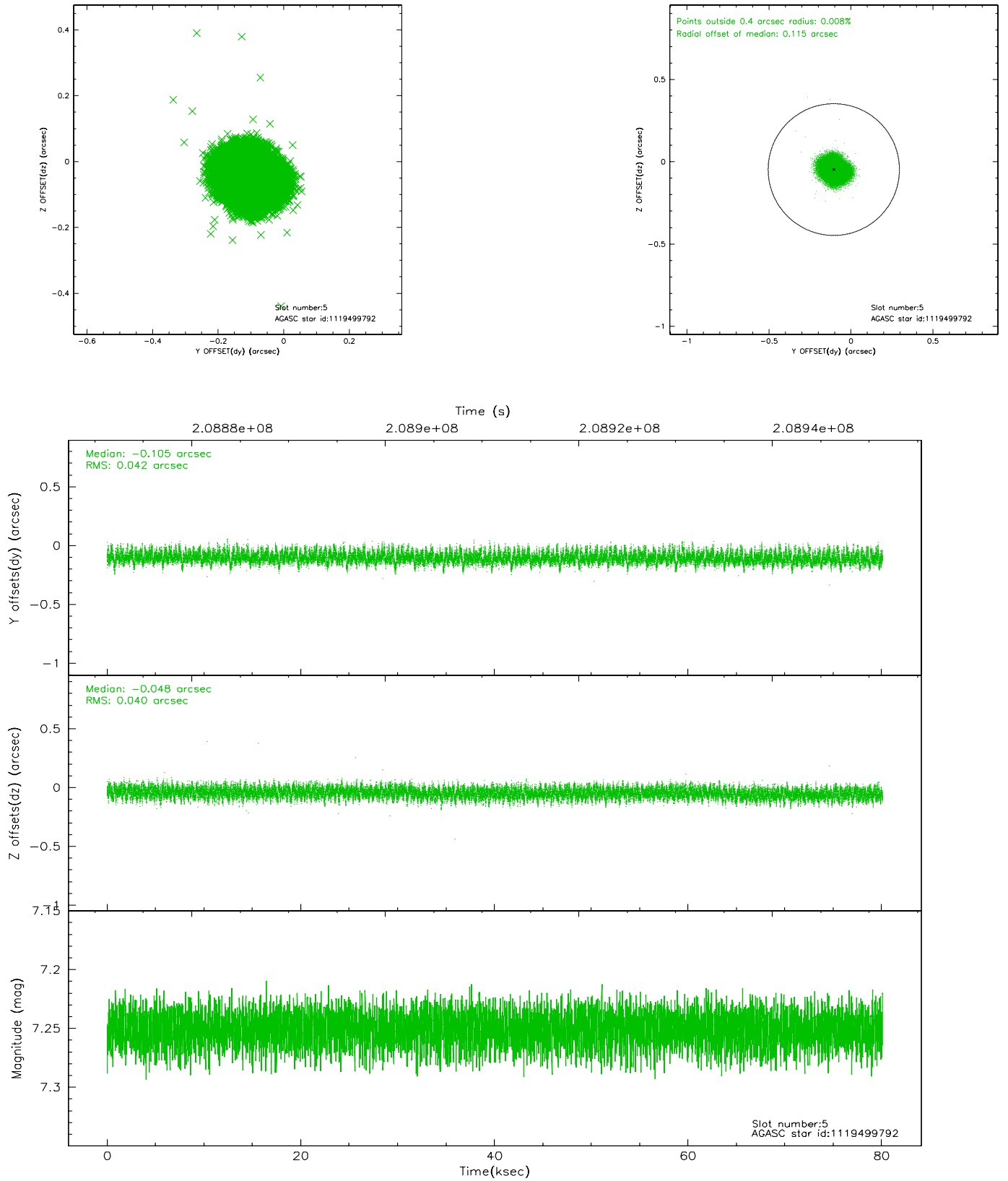
2.4.1 Slot 3



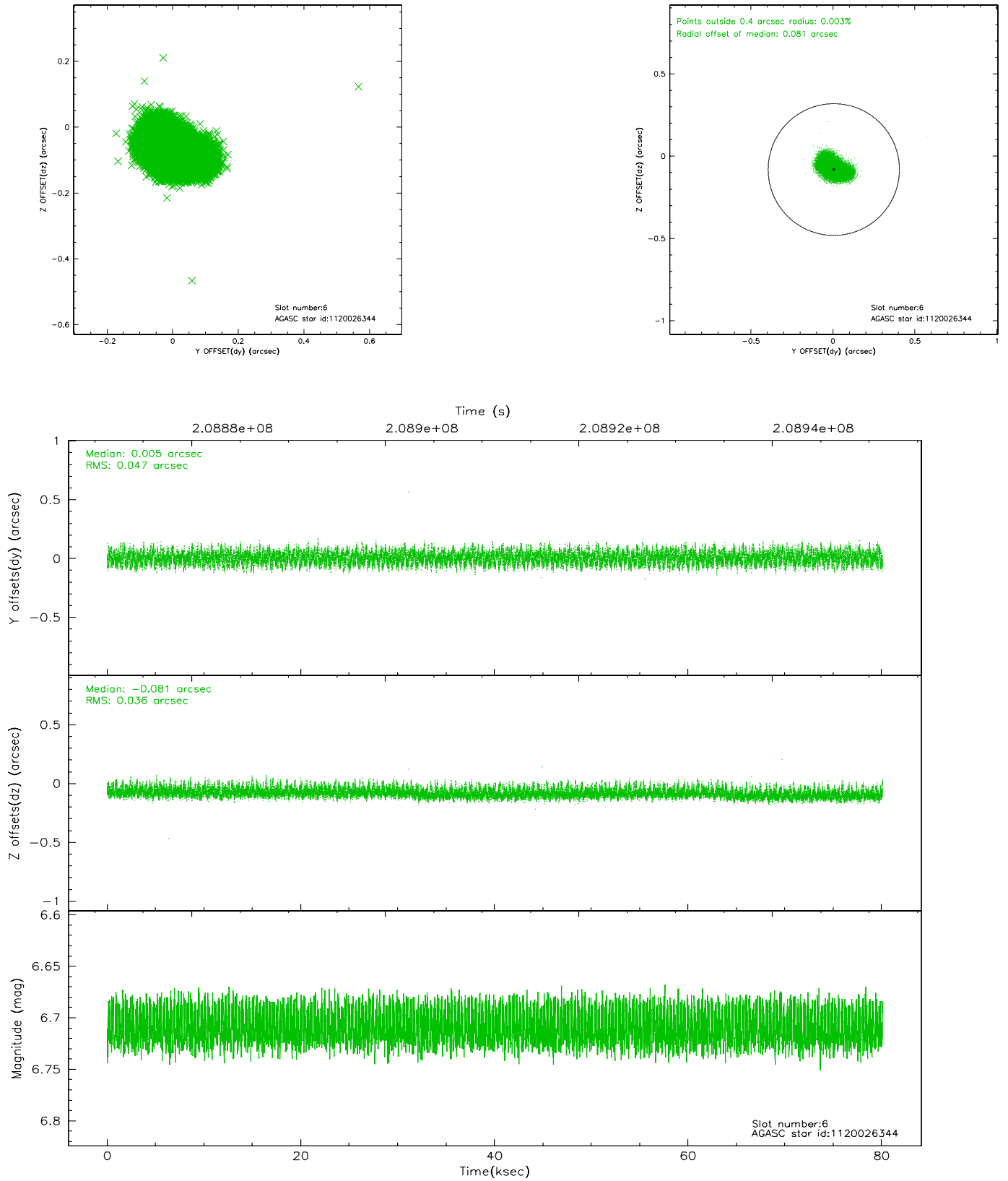
2.4.2 Slot 4



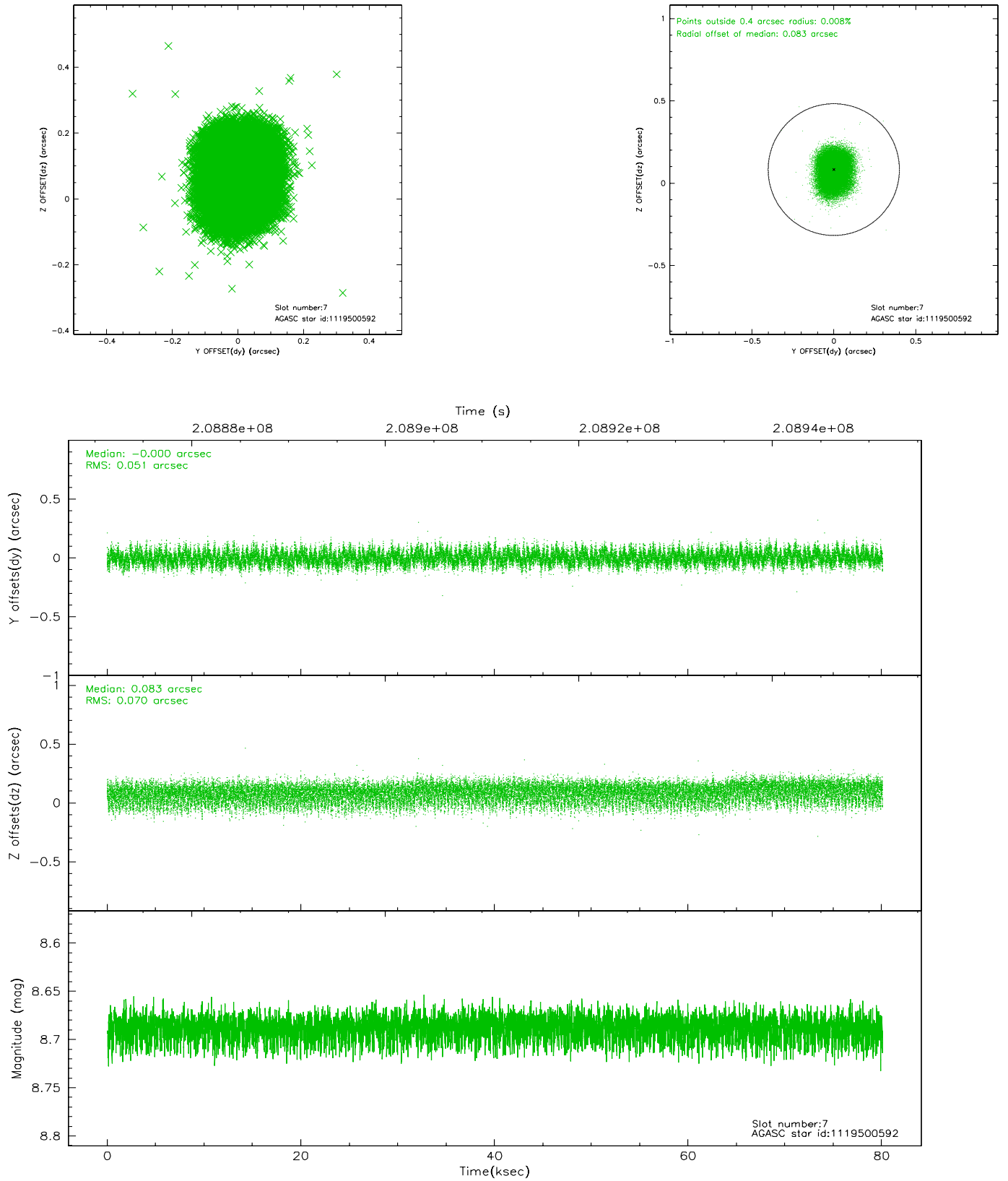
2.4.3 Slot 5



2.4.4 Slot 6

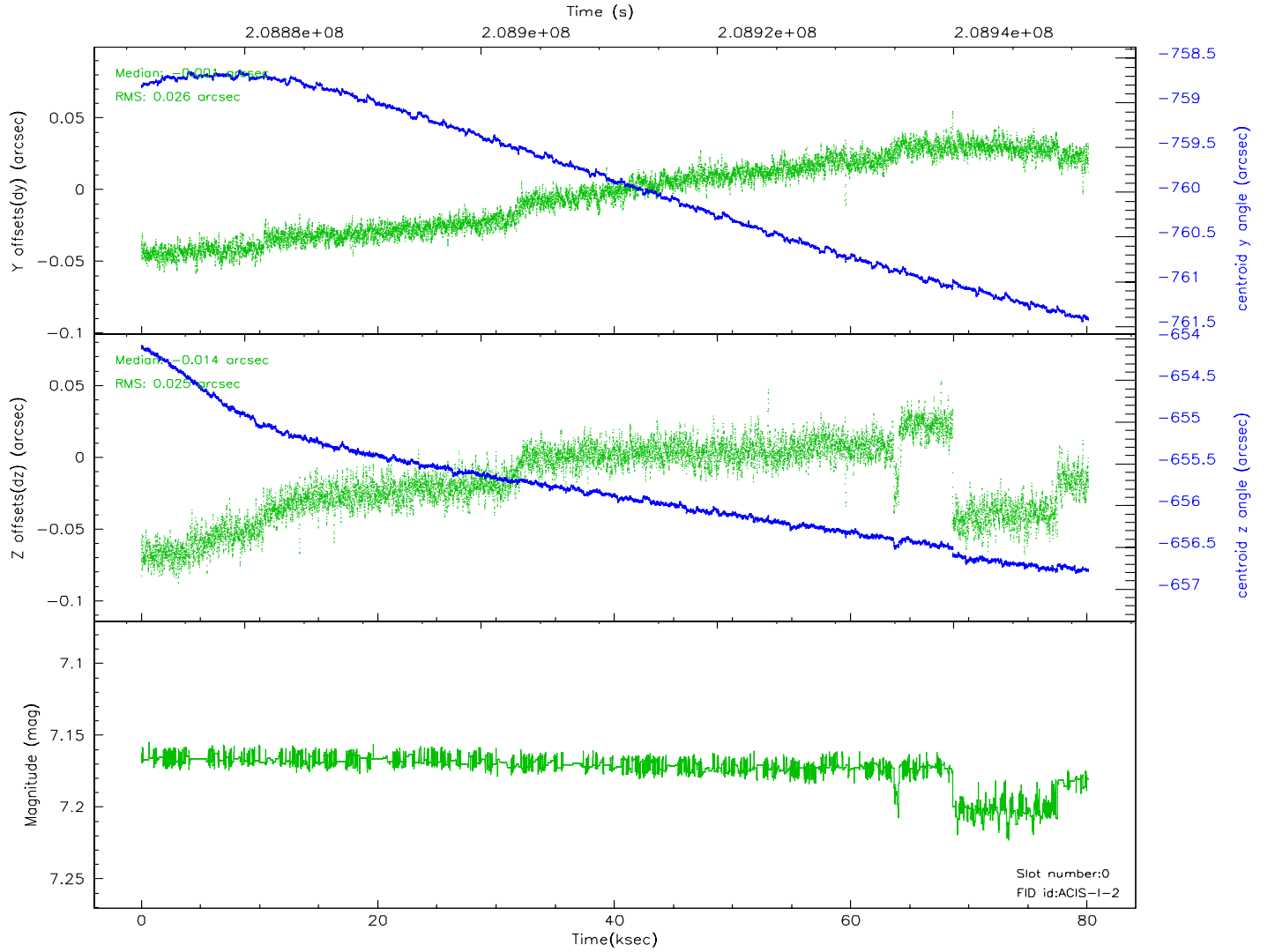
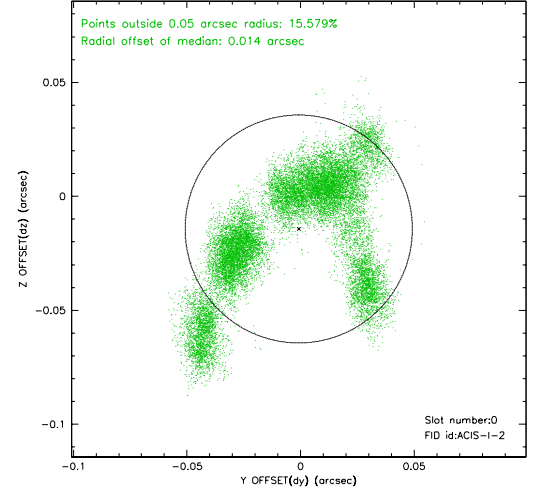
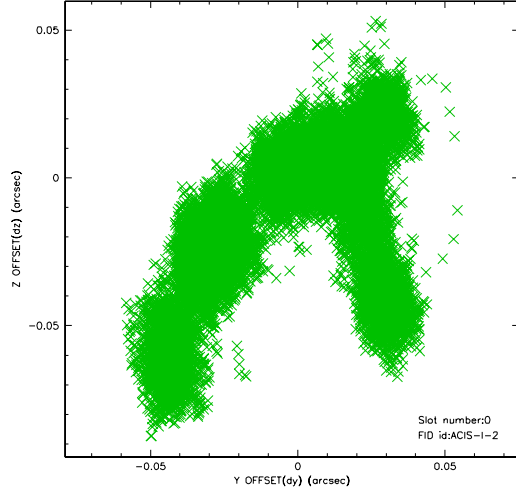


2.4.5 Slot 7

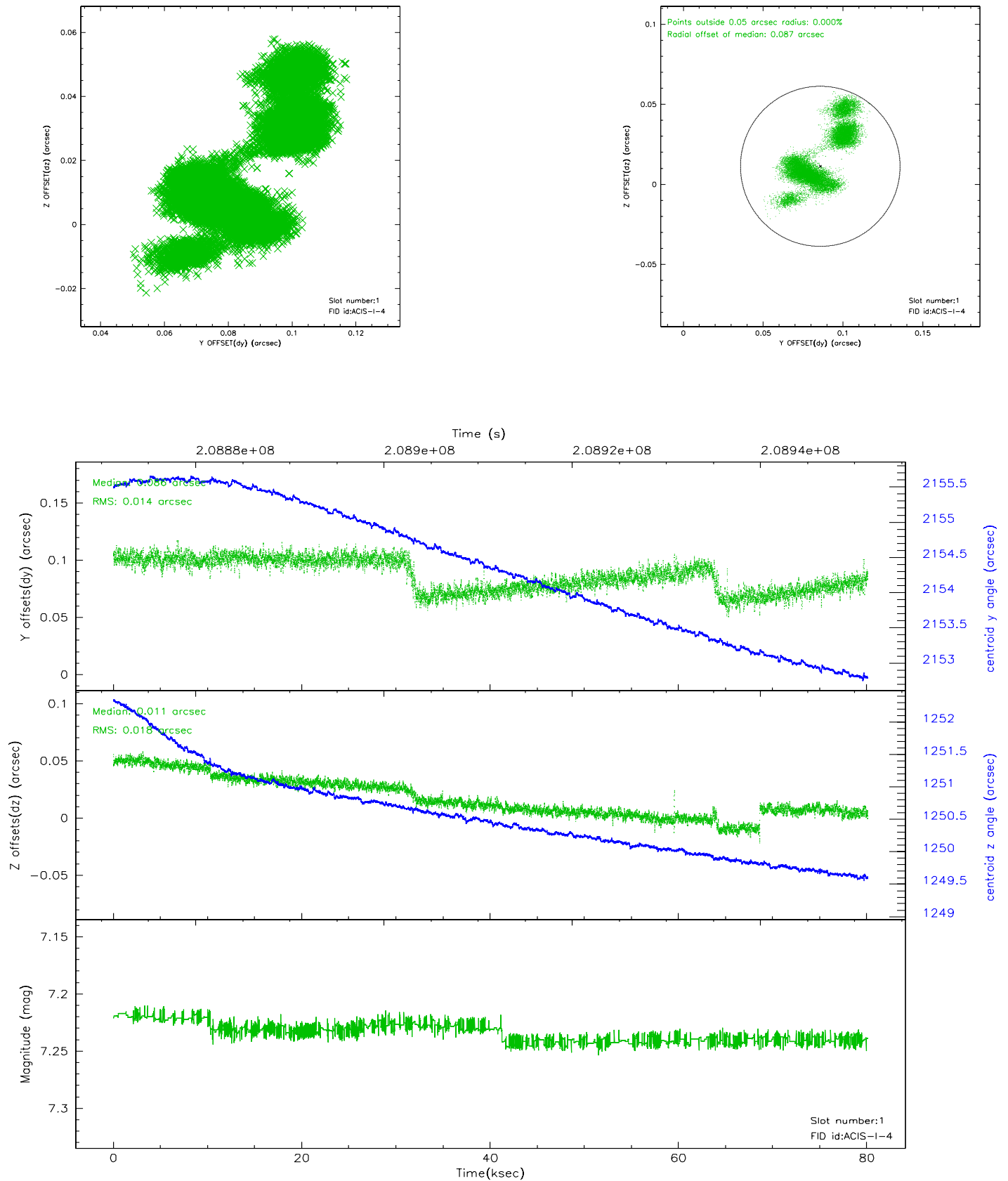


2.5 FID Slots

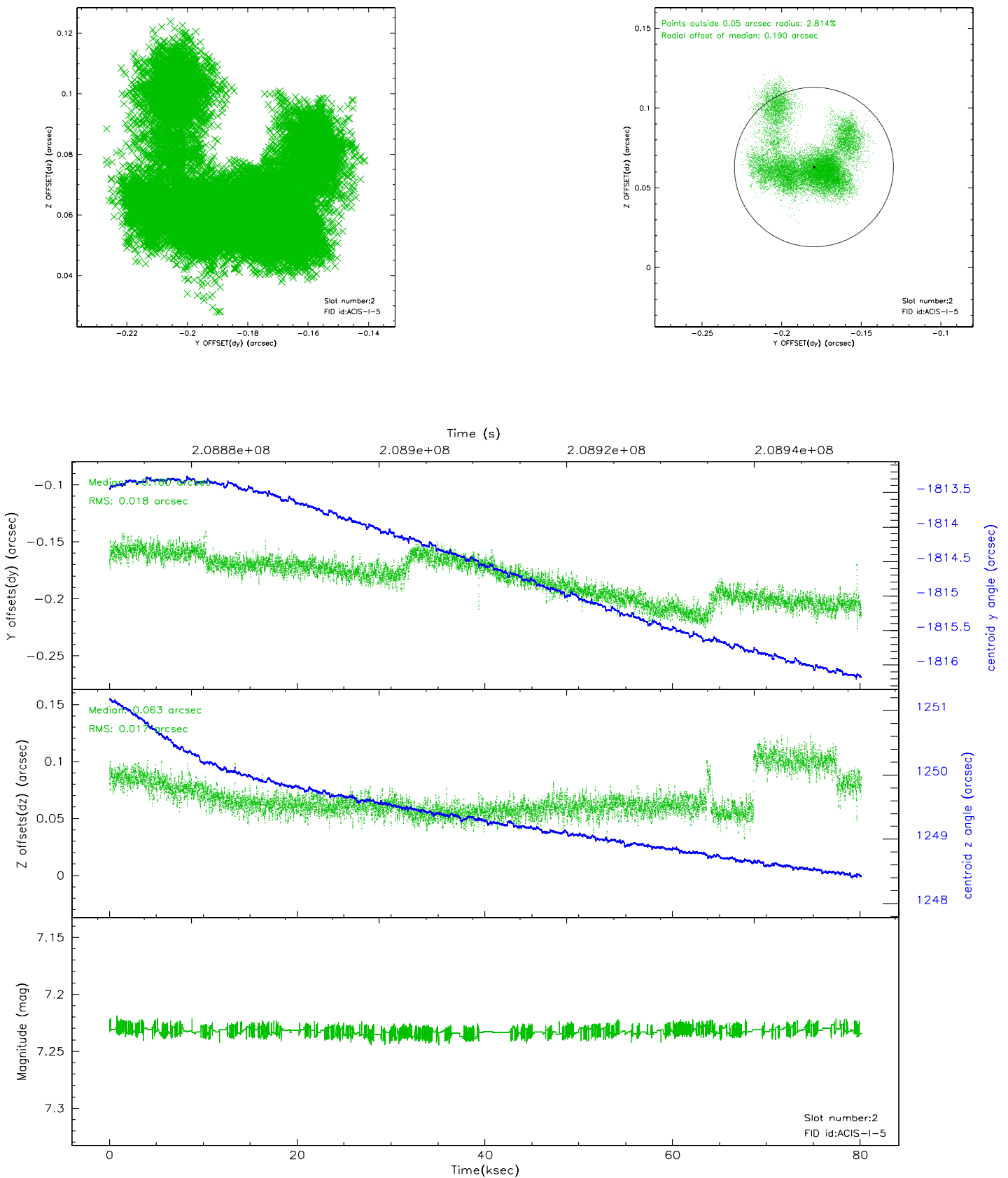
2.5.1 Slot 0



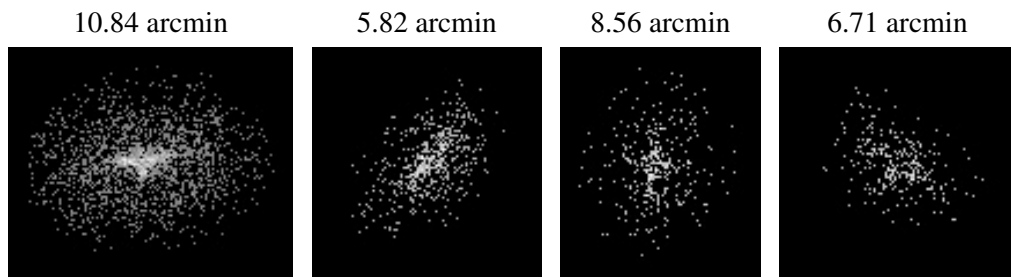
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.05.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 80.1 |

A.2 Comments

Obsid contained an ACIS anomaly (missing BEP packet.)

There are some discontinuities in the fid lights, most noticeably in slot 0.