

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4729 - L2 Version 001
Chandra X-Ray Center

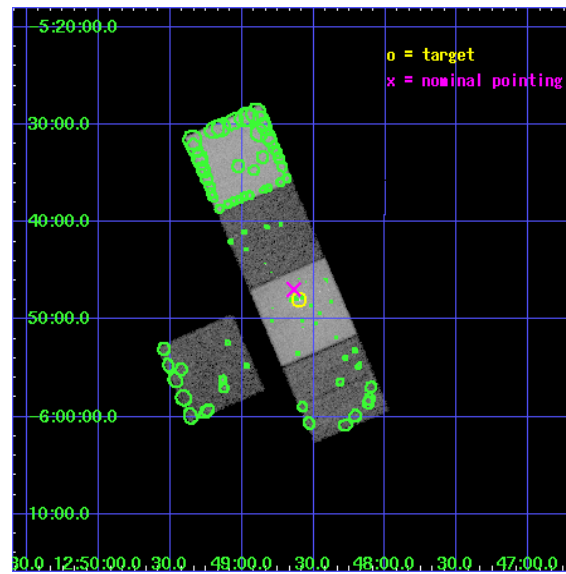
L2 Processing Date : Jun 2 2006

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1 Front

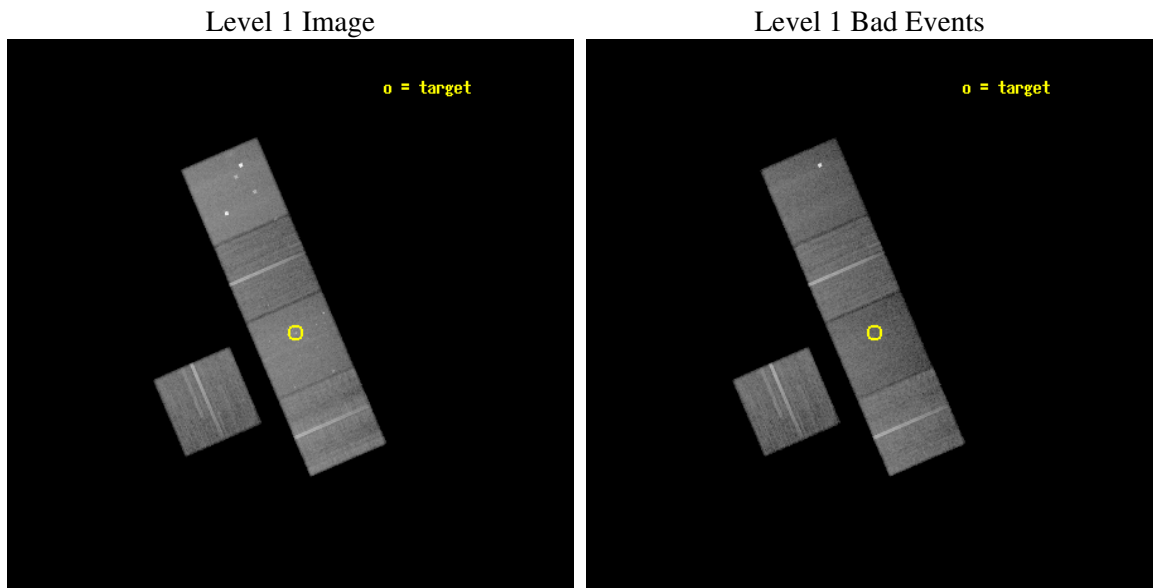
| | |
|----------|--|
| seq_num | 600384 |
| obs_id | 4729 |
| title | Deep Chandra and Hubble Observations NGC 4697, the Nearest Optically Luminous, X-ray Faint Elliptical Galaxy |
| observer | Dr. Craig Sarazin |
| object | NGC4697 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 192.149583 |
| dec_targ | -5.800556 |
| ra_nom | 192.15936872865 |
| dec_nom | -5.7822354722289 |
| roll_nom | 66.769358119623 |
| revision | 2 |
| ontime | 38604.299925774 |
| livetime | 38099.906327172 |
| ontime3 | 38594.876965165 |
| ontime5 | 38604.299925774 |
| ontime6 | 38604.299925774 |
| ontime7 | 38604.299925774 |
| ontime8 | 38604.299925774 |
| l2events | 328724 |



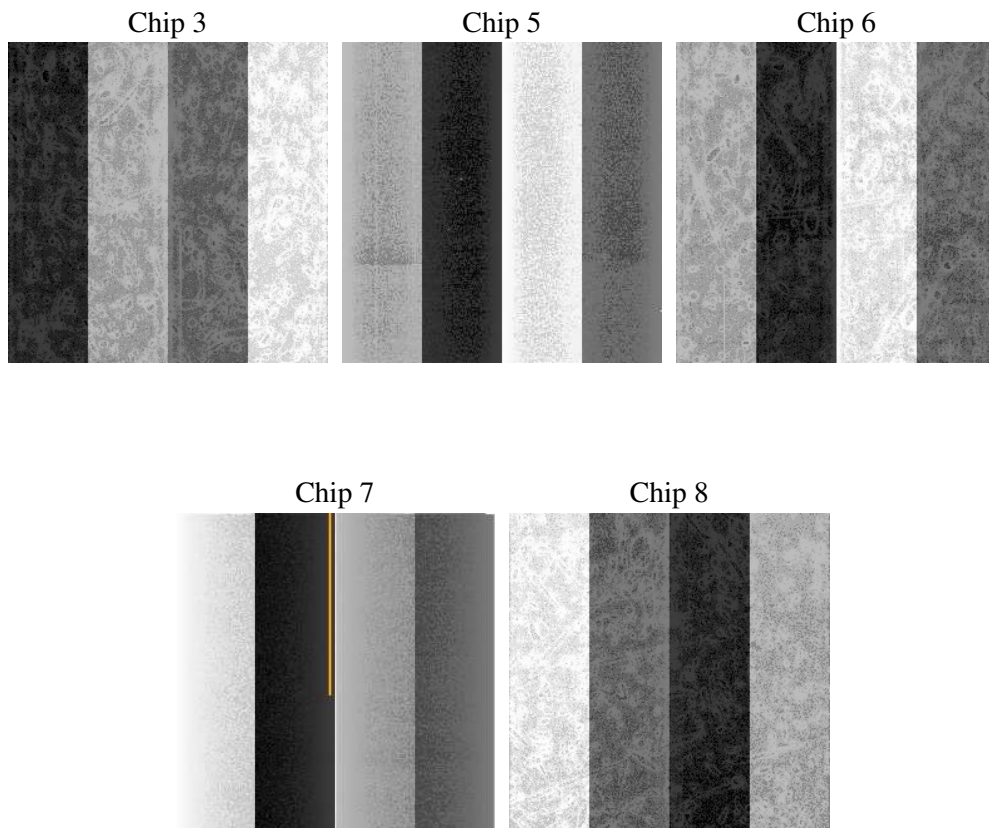
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.2 |
| caldbver | 3.2.2 |
| date | 2006-06-02T11:00:04 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 38500.000000 |
| ontime | 38609.302038878 |
| ontime3 | 38599.879058361 |
| ontime5 | 38609.302038878 |
| ontime6 | 38609.30201897 |
| ontime7 | 38609.302038878 |
| ontime8 | 38609.302038878 |
| l1events | 1253165 |

2.1.4 Events

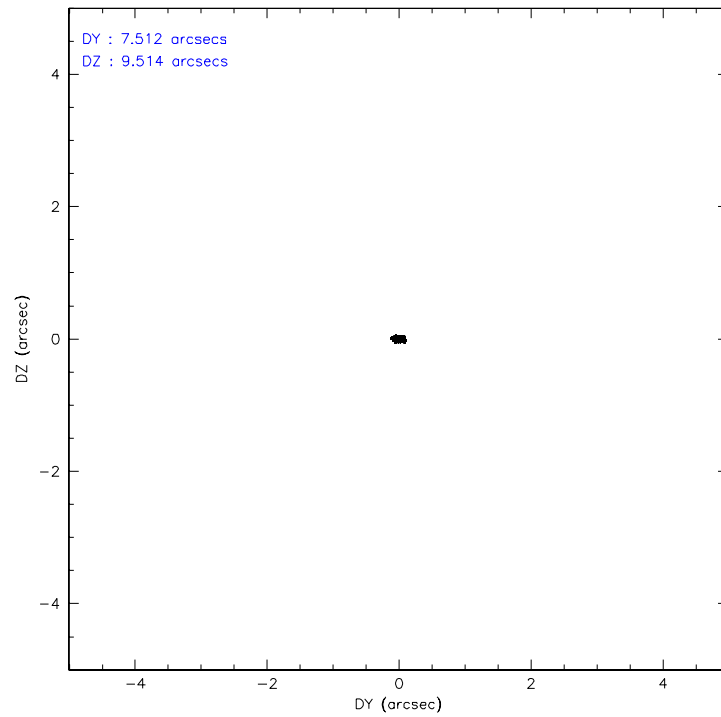
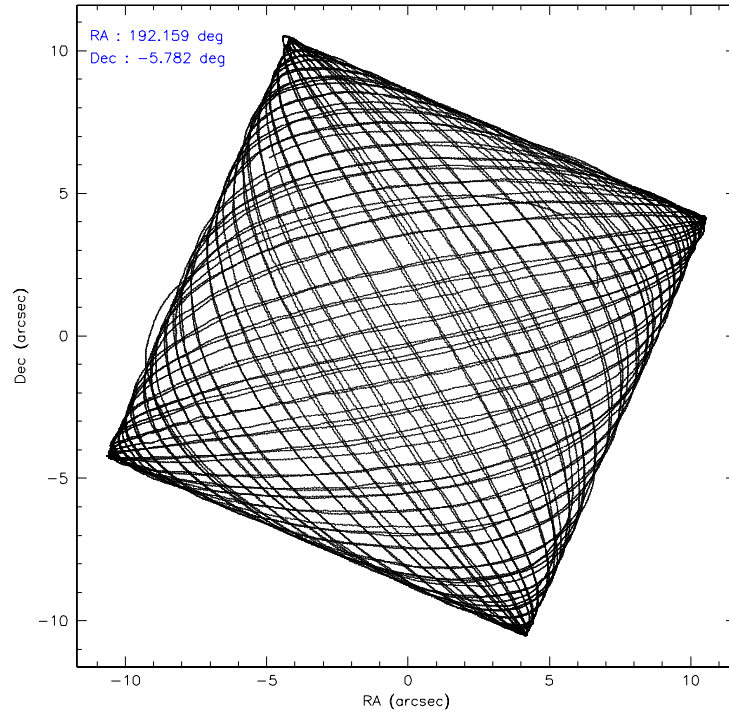
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 199376 | 318168 | 208187 | 259032 | 268402 |
| rejected events | 178608 | 155608 | 183372 | 135765 | 204316 |
| rejected % | 89% | 48% | 88% | 52% | 76% |

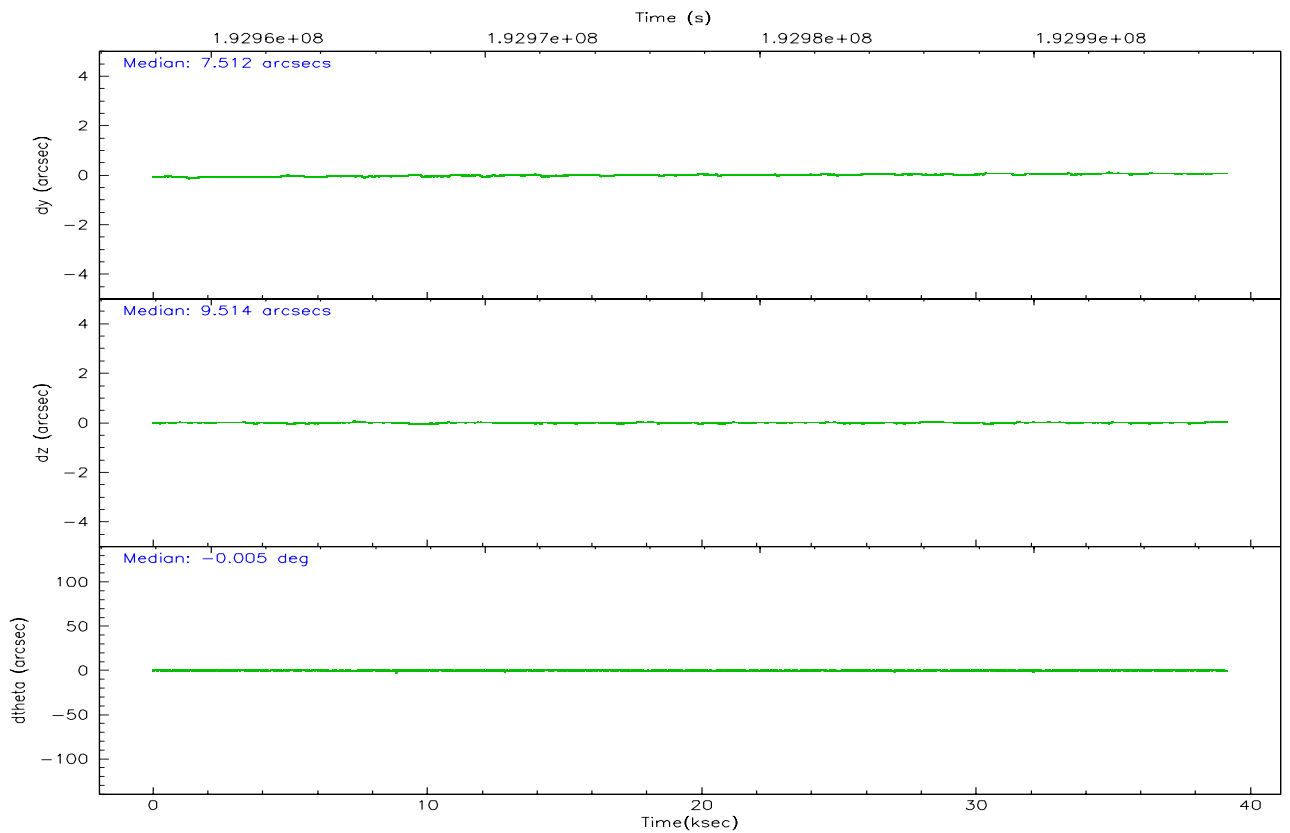
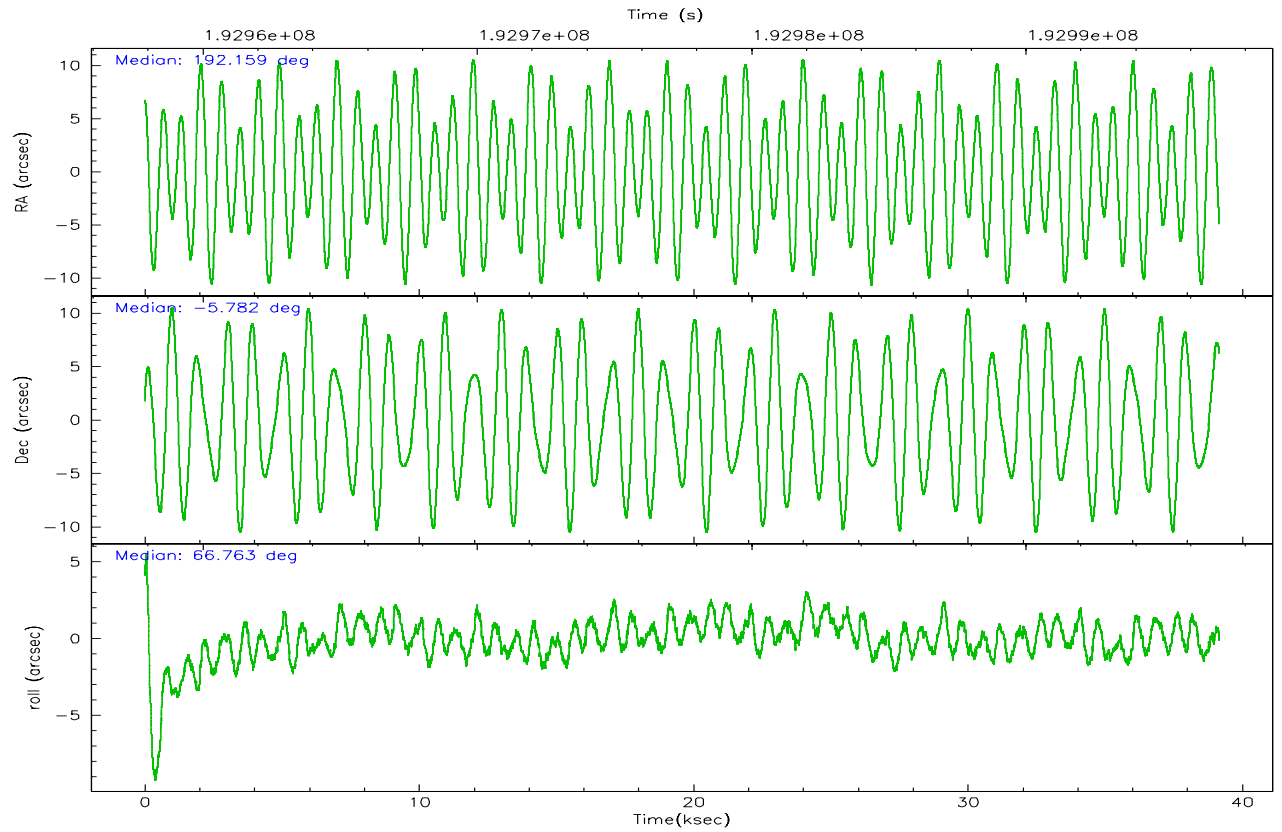
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|
| grade 0 events | 8283 | 20991 | 10345 | 10748 | 21245 |
| | 4% | 6% | 4% | 4% | 7% |
| grade 1 events | 94 | 113 | 95 | 118 | 180 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 4147 | 50455 | 4779 | 29600 | 13387 |
| | 2% | 15% | 2% | 11% | 4% |
| grade 3 events | 2257 | 4331 | 2571 | 7801 | 6957 |
| | 1% | 1% | 1% | 3% | 2% |
| grade 4 events | 2230 | 4096 | 2506 | 7549 | 6540 |
| | 1% | 1% | 1% | 2% | 2% |
| grade 5 events | 8087 | 16816 | 8349 | 17751 | 11713 |
| | 4% | 5% | 4% | 6% | 4% |
| grade 6 events | 3853 | 82700 | 4617 | 67586 | 15962 |
| | 1% | 25% | 2% | 26% | 5% |
| grade 7 events | 170425 | 138666 | 174925 | 117879 | 192418 |
| | 85% | 43% | 84% | 45% | 71% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-35678 | ACIS-35678 | 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 | 192.162973 | 192.1593687286455 | Alternating exposures requested | N | N |
| Pointing Dec | -5.809223 | -5.782235472228927 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 66.613091 | 66.76935811962261 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| 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 | 192958538.184000 | 192957346.3699 | | | |
| Observation start date | 2004-02-12T07:34:34 | 2004-02-12T07:15:46 | | | |
| Observation end time | 192997038.184000 | 192997342.38415 | | | |
| Observation end date | 2004-02-12T18:16:14 | 2004-02-12T18:22:22 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



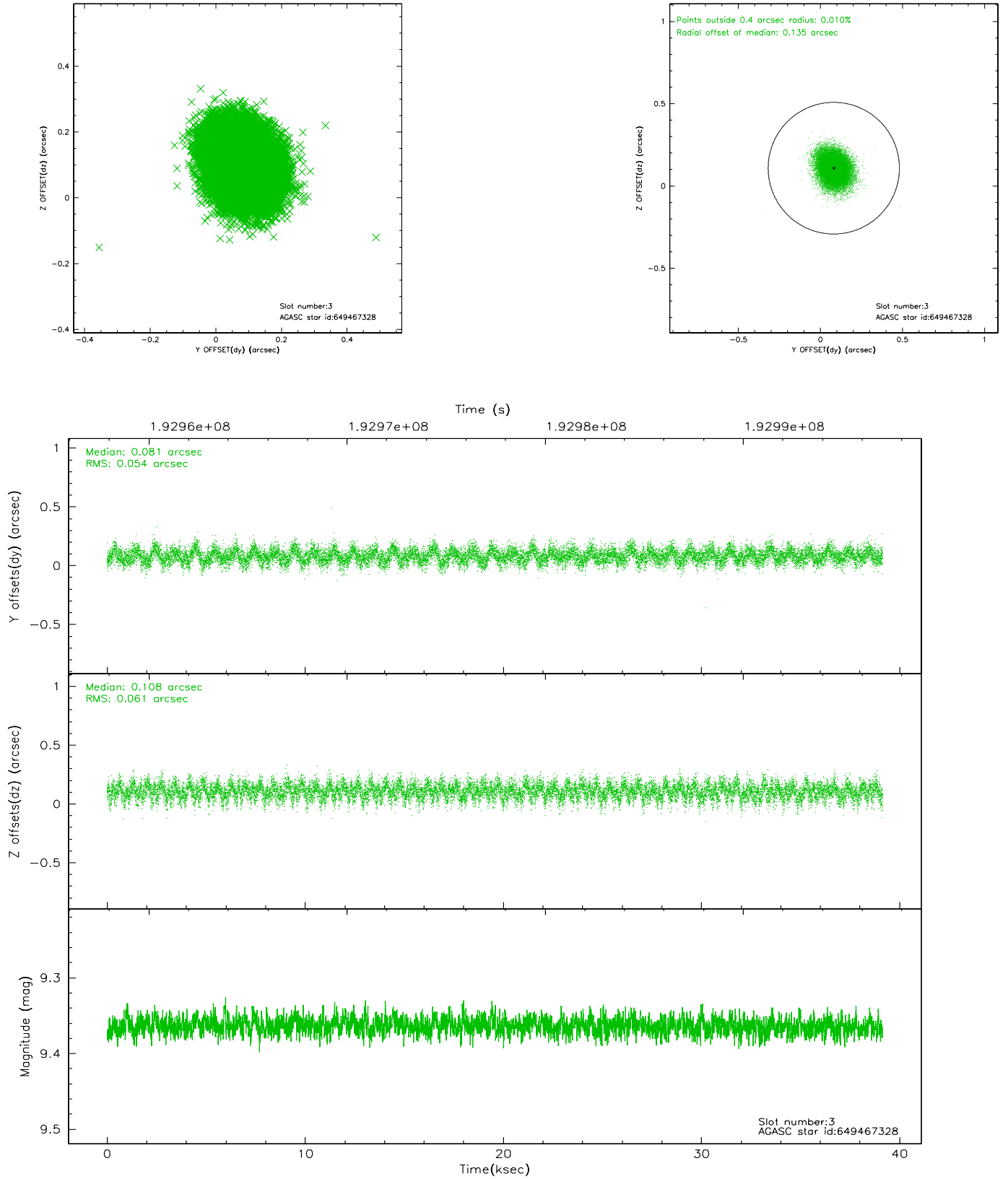


Slot Statistics

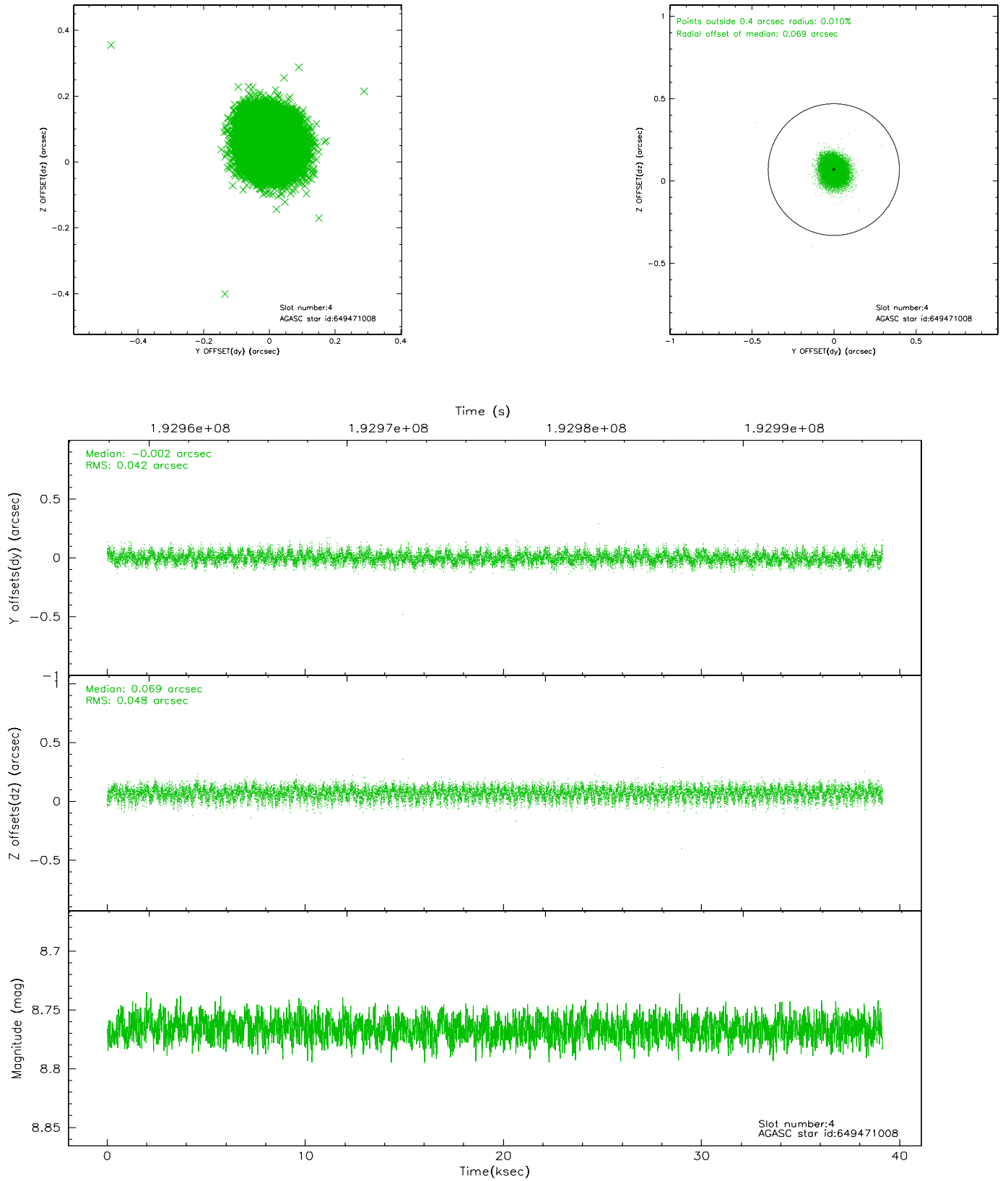
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 9549 | -0.025 | -0.009 | 0.007 | 0.011 | 0.000000 | 0.000000 | -760.27 | -1730.77 |
| 1 | FID | ACIS-S-4 | 7.20 | 9548 | 0.044 | 0.015 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2153.03 | 177.76 |
| 2 | FID | ACIS-S-5 | 7.23 | 9549 | -0.050 | 0.003 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1813.14 | 171.38 |
| 3 | GUIDE | 649467328 | 9.36 | 19087 | 0.081 | 0.108 | 0.087 | 0.140 | 192.312268 | -5.822418 | 169.07 | -509.33 |
| 4 | GUIDE | 649471008 | 8.77 | 19091 | -0.002 | 0.069 | 0.068 | 0.109 | 191.883055 | -5.890695 | -667.17 | 803.64 |
| 5 | GUIDE | 649471216 | 9.00 | 19091 | 0.004 | -0.246 | 0.078 | 0.124 | 192.046748 | -5.955581 | -648.68 | 172.60 |
| 6 | GUIDE | 649471800 | 8.60 | 19082 | -0.097 | -0.149 | 0.056 | 0.090 | 192.288030 | -5.445033 | 1381.11 | 109.20 |
| 7 | GUIDE | 649594712 | 8.43 | 19089 | 0.012 | 0.218 | 0.078 | 0.120 | 192.730305 | -6.061024 | -26.20 | -2223.96 |

2.4 Star Slots

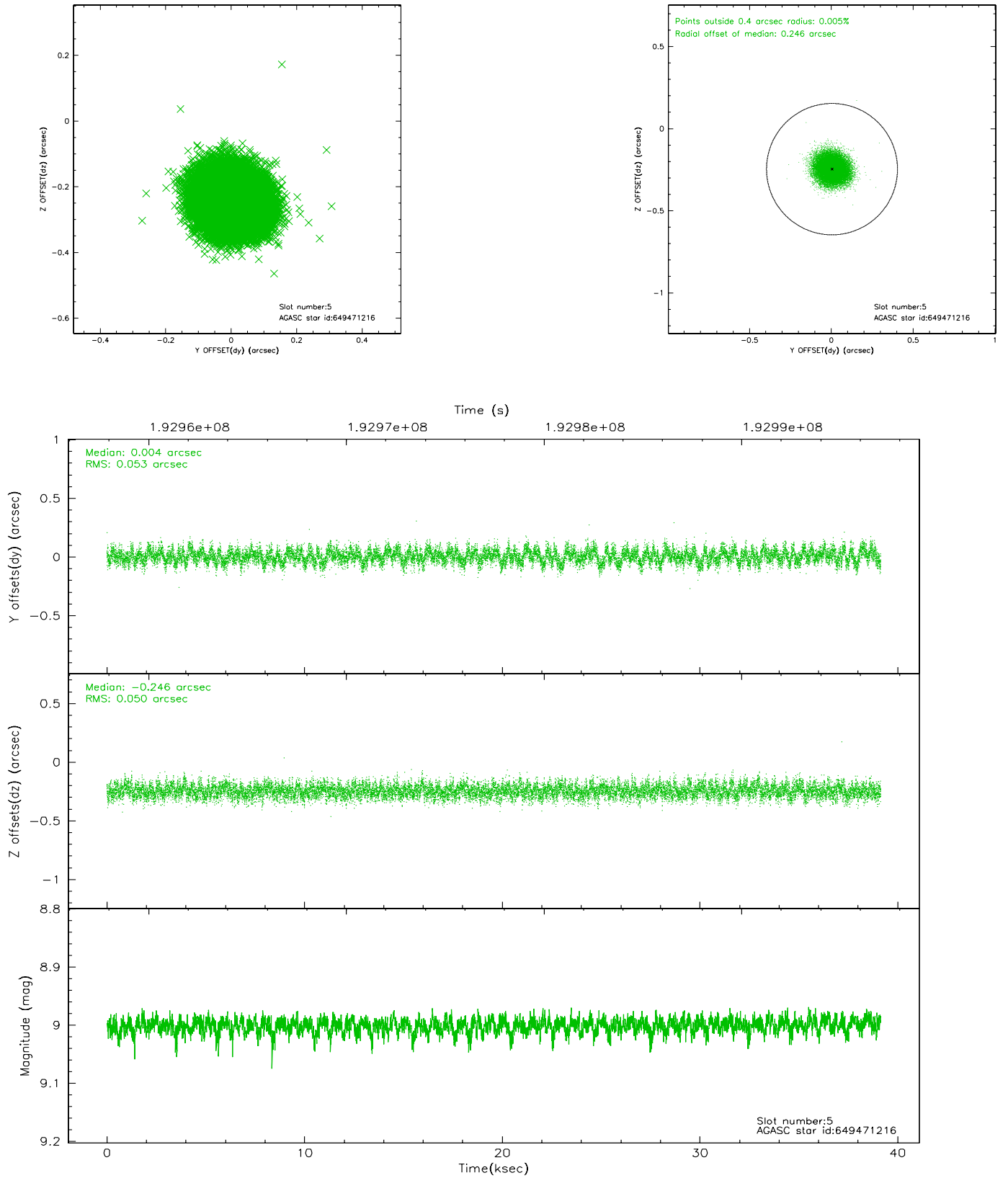
2.4.1 Slot 3



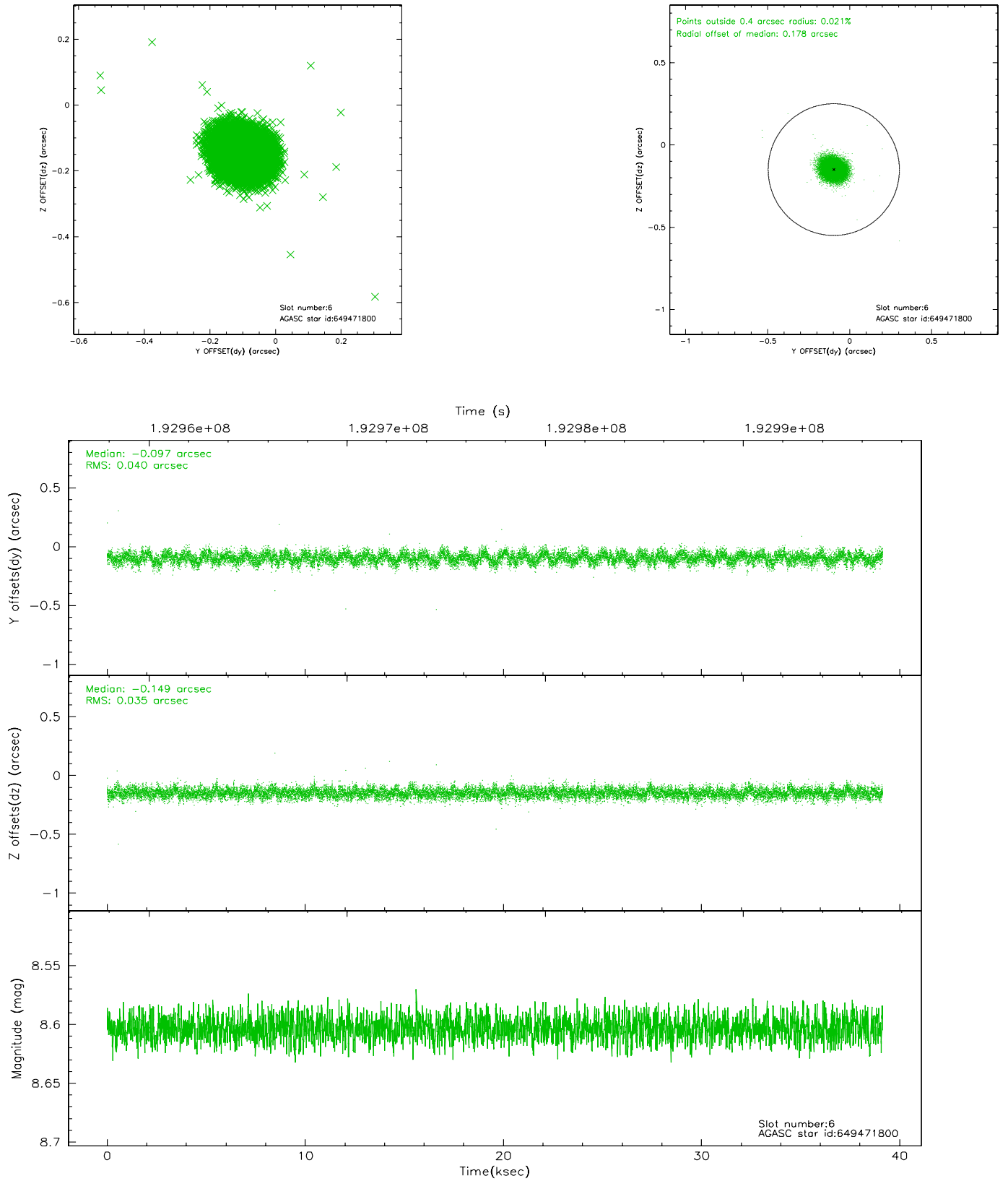
2.4.2 Slot 4



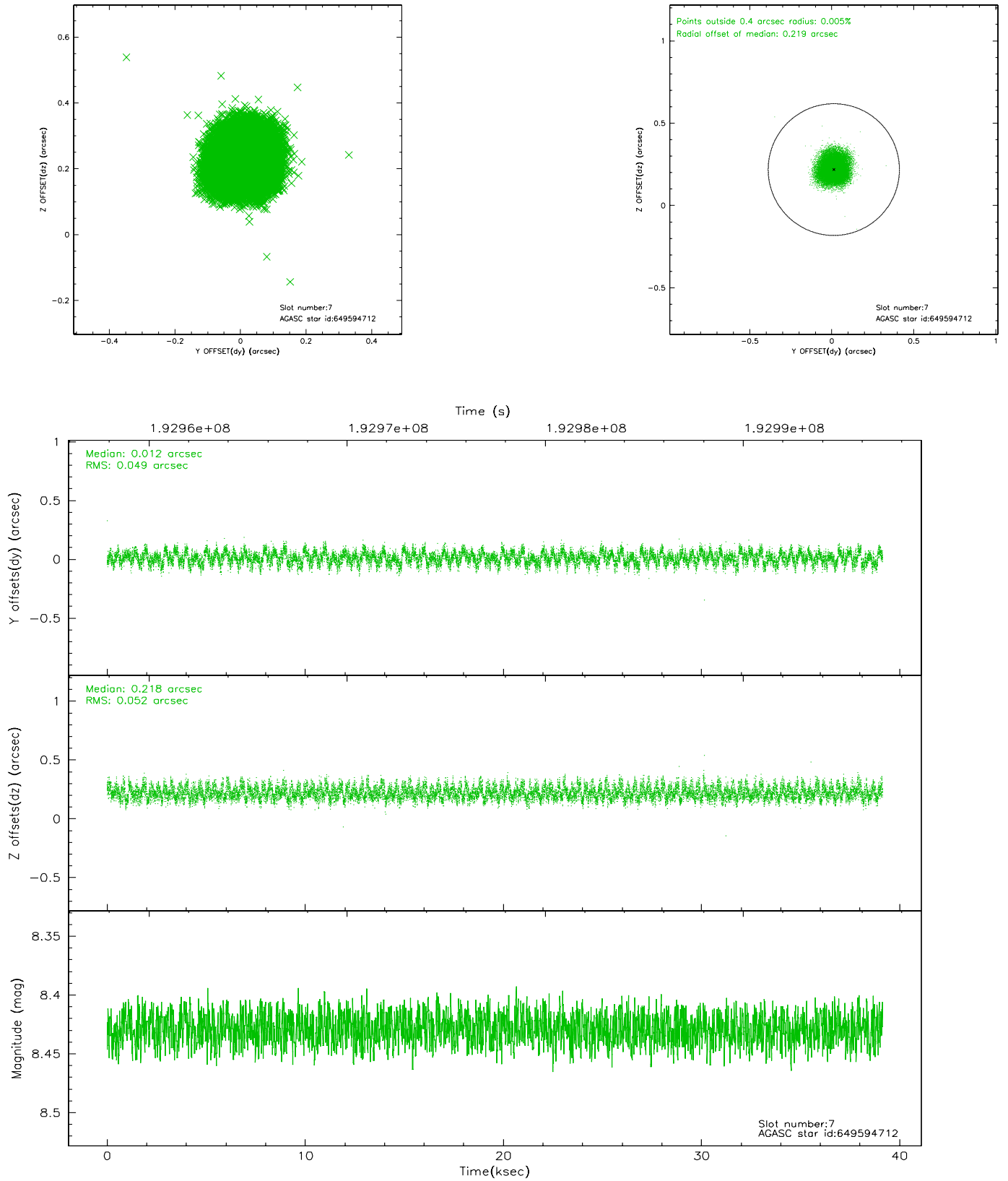
2.4.3 Slot 5



2.4.4 Slot 6

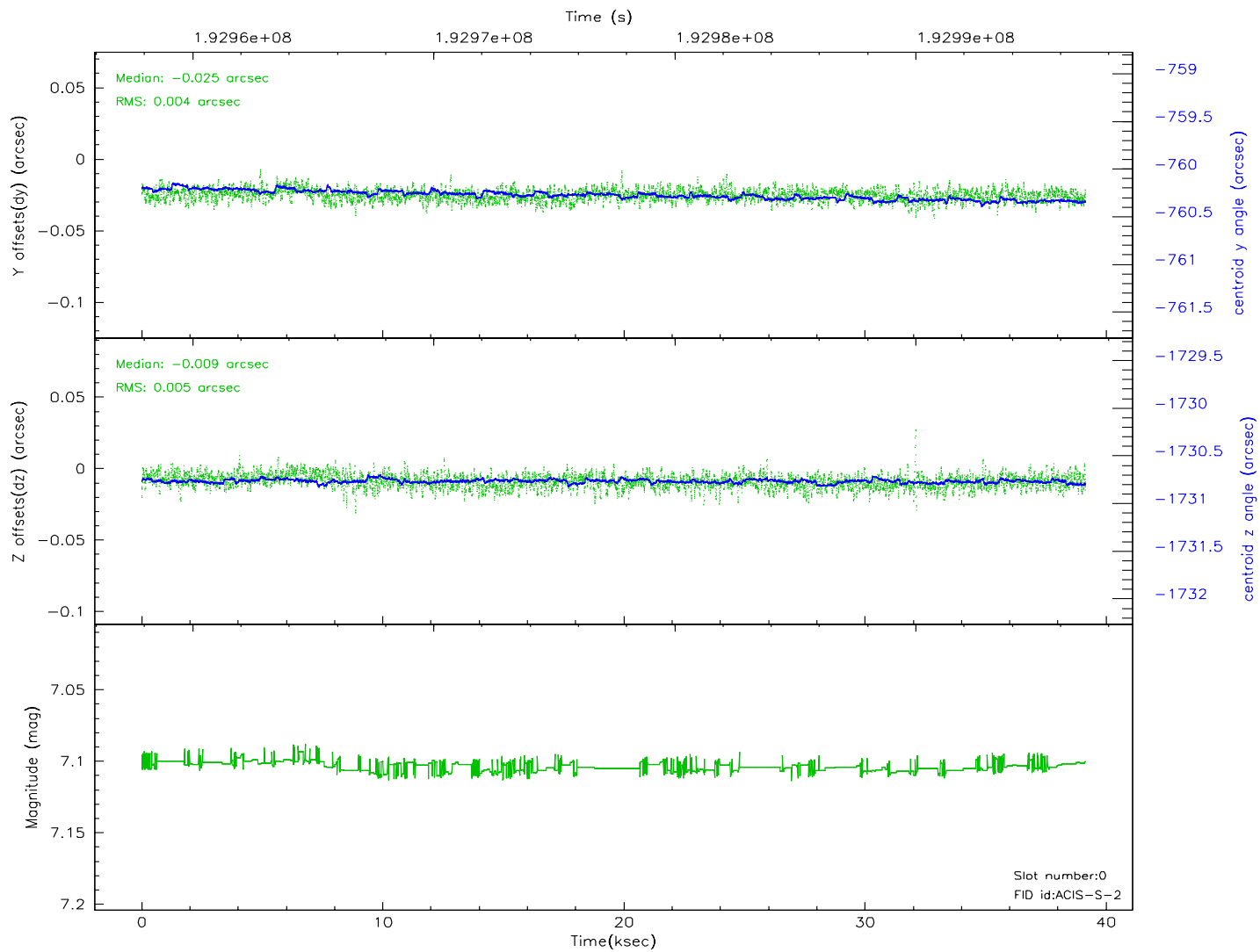
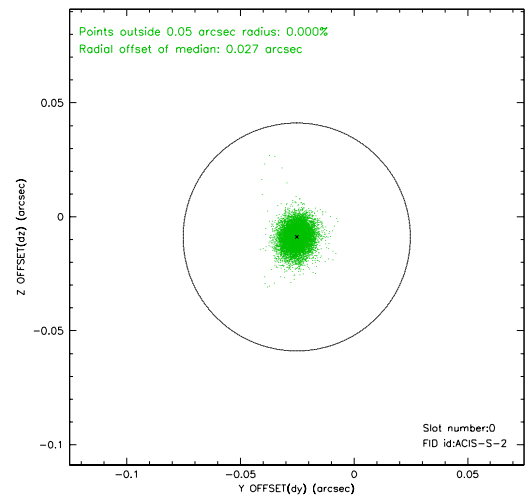
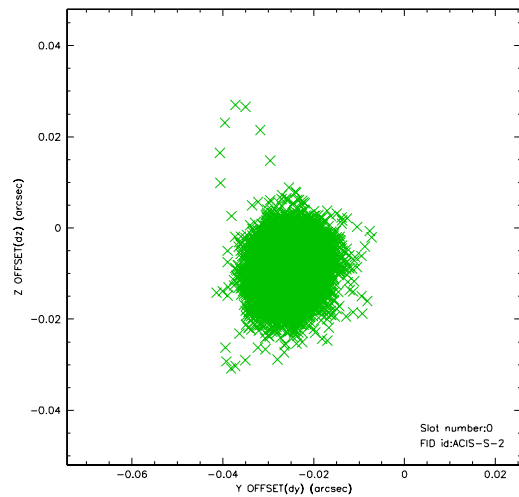


2.4.5 Slot 7

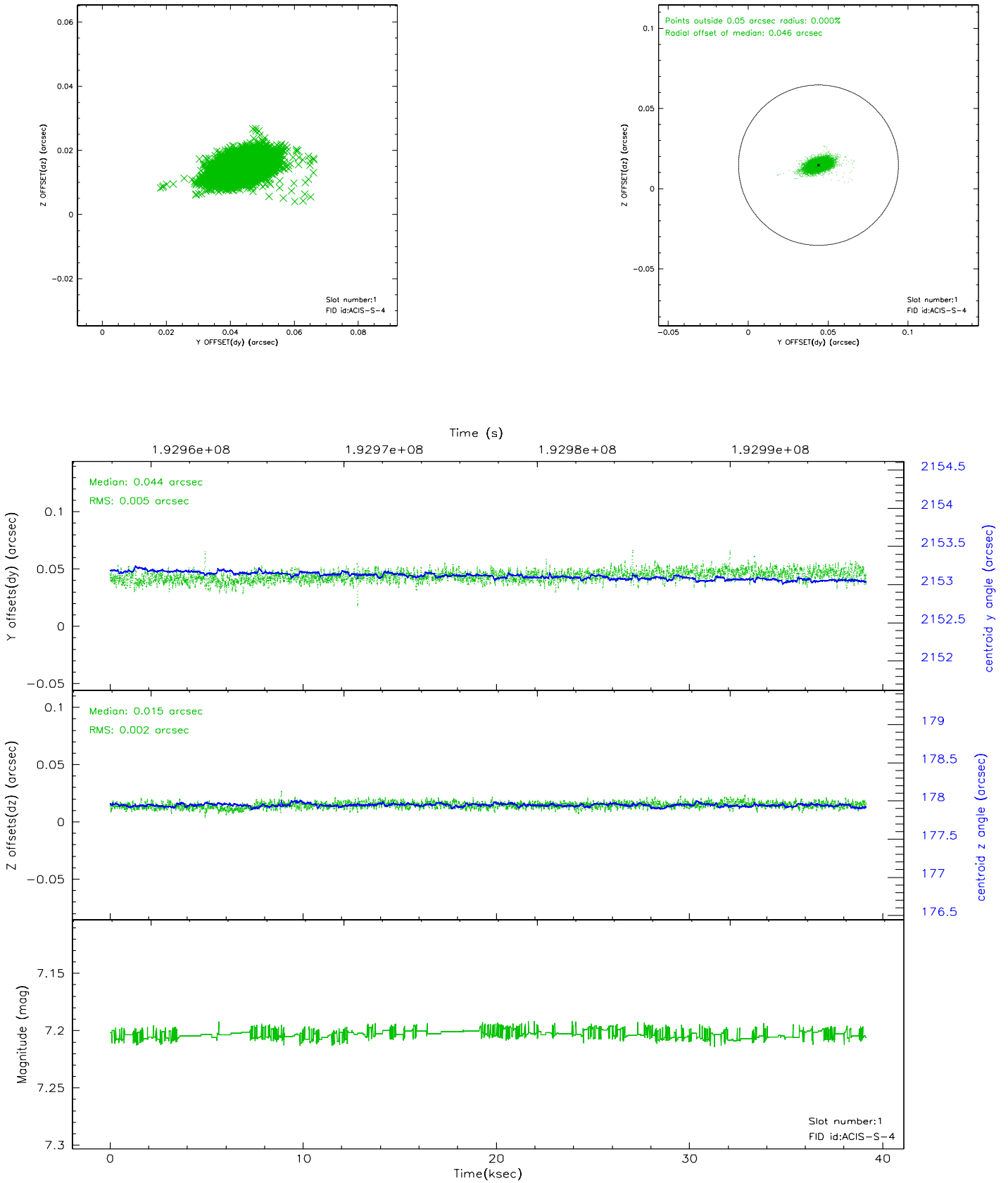


2.5 FID Slots

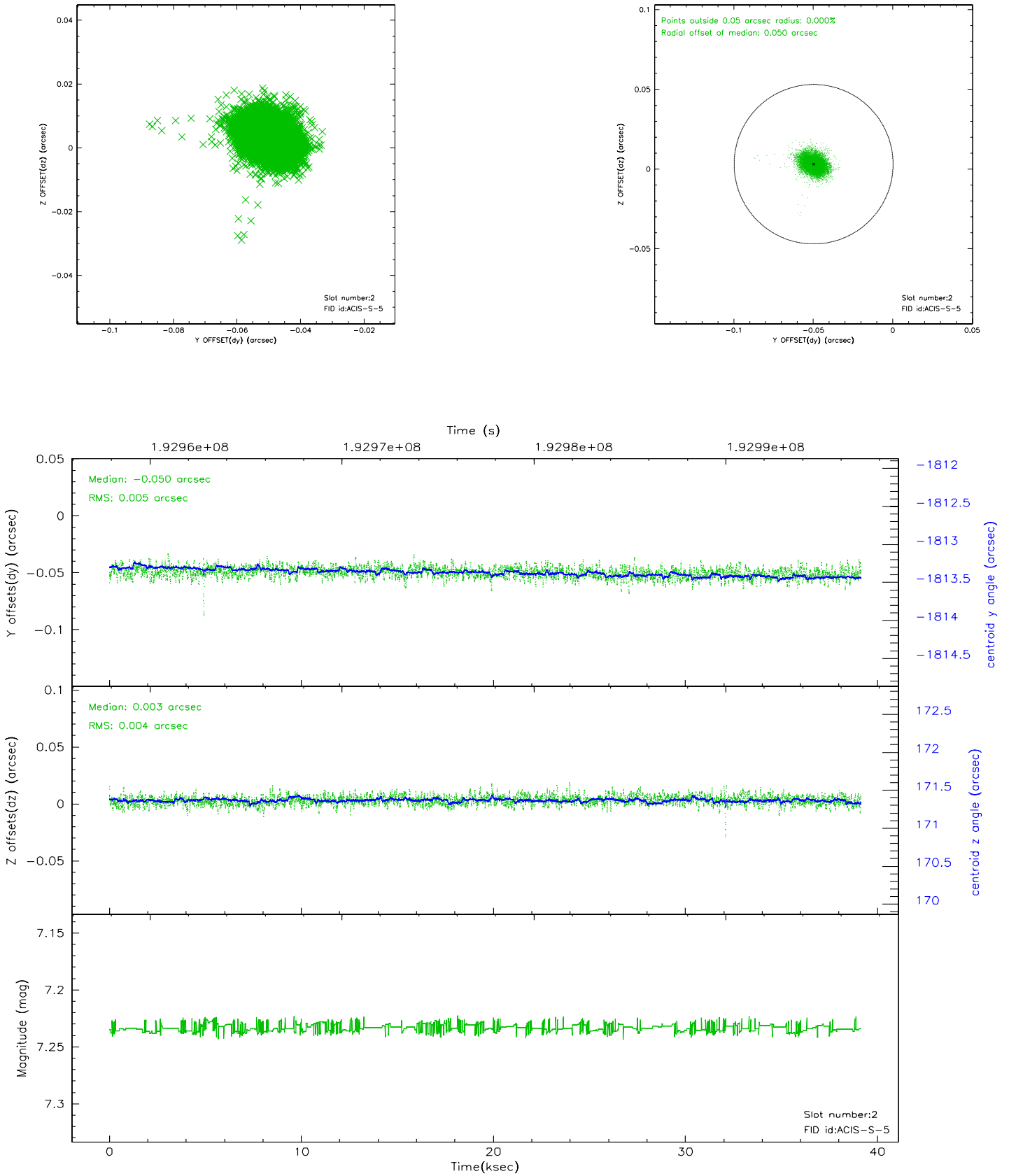
2.5.1 Slot 0



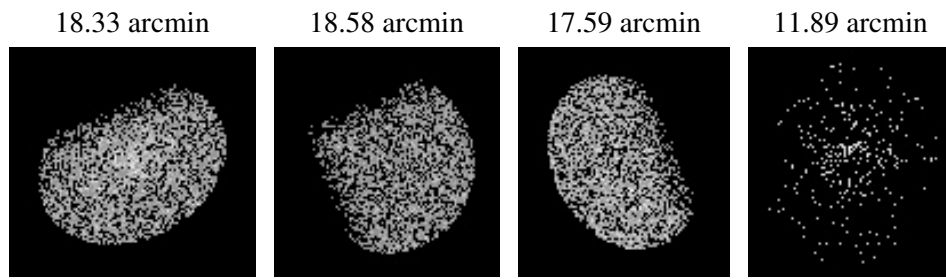
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.06.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 38.607 |

A.2 Comments

Window preference not met.