

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2535 - L2 Version 001
Chandra X-Ray Center

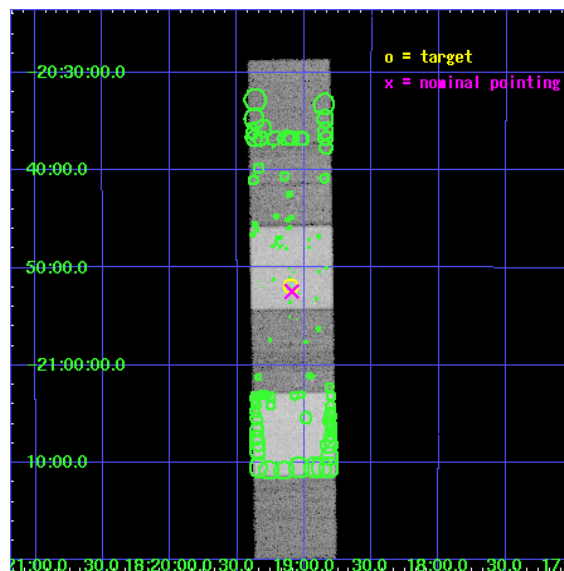
L2 Processing Date : Oct 12 2006

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1 Front

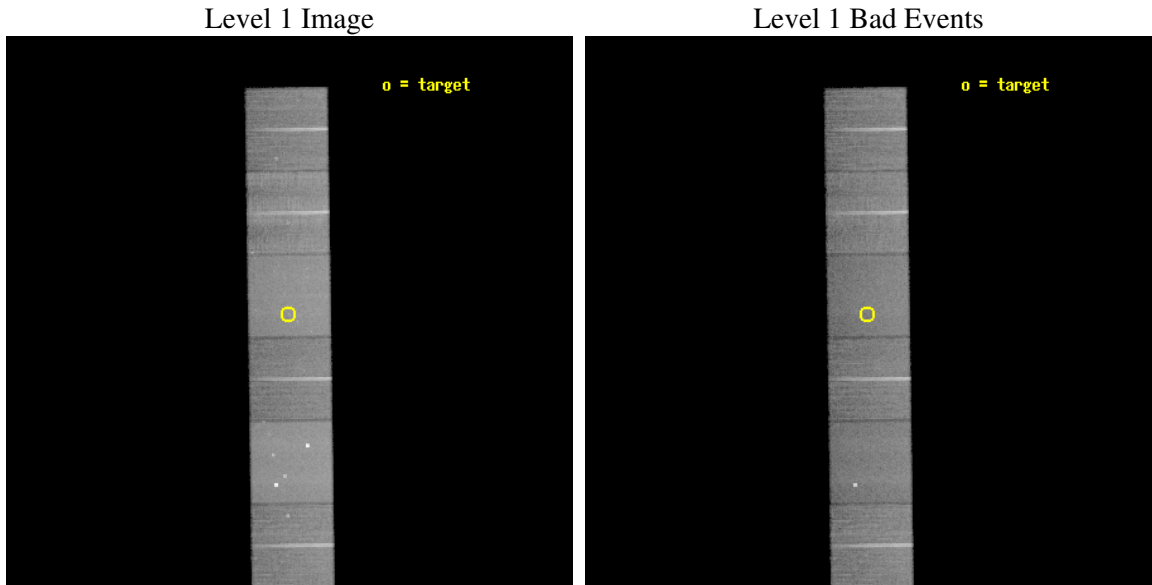
| | |
|----------|---|
| seq_num | 200143 |
| obs_id | 2535 |
| title | X-RAYS FROM STARS AT THE FAR END OF THE MAIN SEQUENCE |
| observer | Professor Gordon Garmire |
| object | HH80/81 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 274.77525 |
| dec_targ | -20.86534 |
| ra_nom | 274.77326887485 |
| dec_nom | -20.874339372477 |
| roll_nom | 269.15591462393 |
| revision | 2 |
| ontime | 37785.599859238 |
| livetime | 37307.135842063 |
| ontime4 | 37785.599859238 |
| ontime5 | 37785.599859238 |
| ontime6 | 37785.599859238 |
| ontime7 | 37785.599859238 |
| ontime8 | 37785.599859238 |
| ontime9 | 37785.599859238 |
| l2events | 377107 |



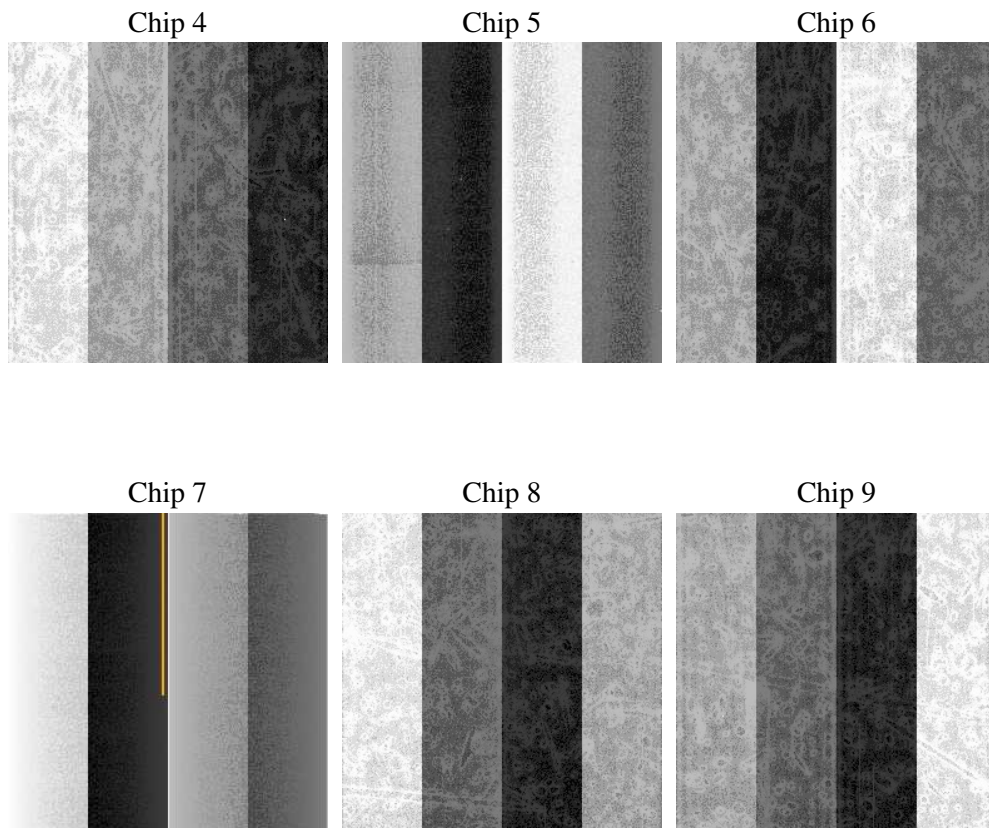
2 OBI

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 | 2006-10-12T01:37:46 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 37800.000000 |
| ontime | 37790.041941643 |
| ontime4 | 37790.041911751 |
| ontime5 | 37790.041911751 |
| ontime6 | 37790.041911751 |
| ontime7 | 37790.041941643 |
| ontime8 | 37790.041911751 |
| ontime9 | 37790.041911751 |
| l1events | 1715181 |

2.1.4 Events

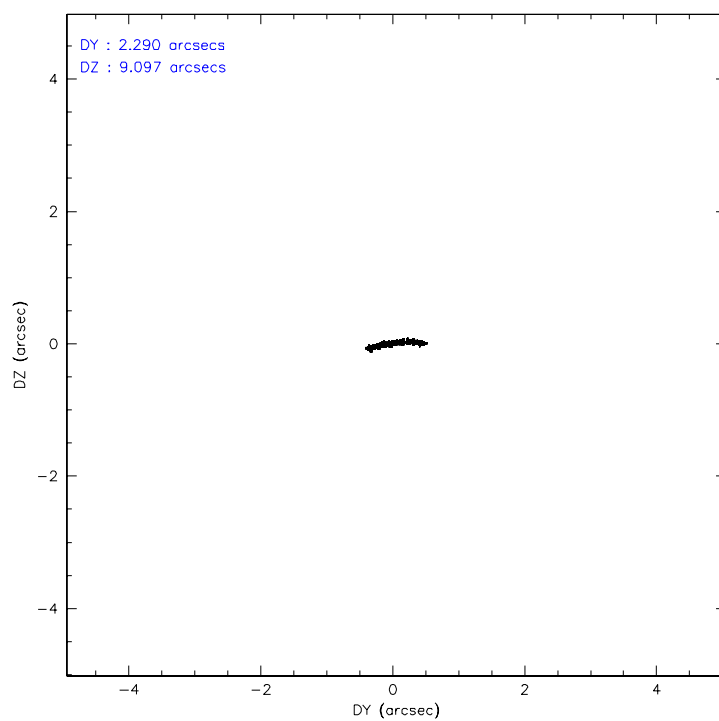
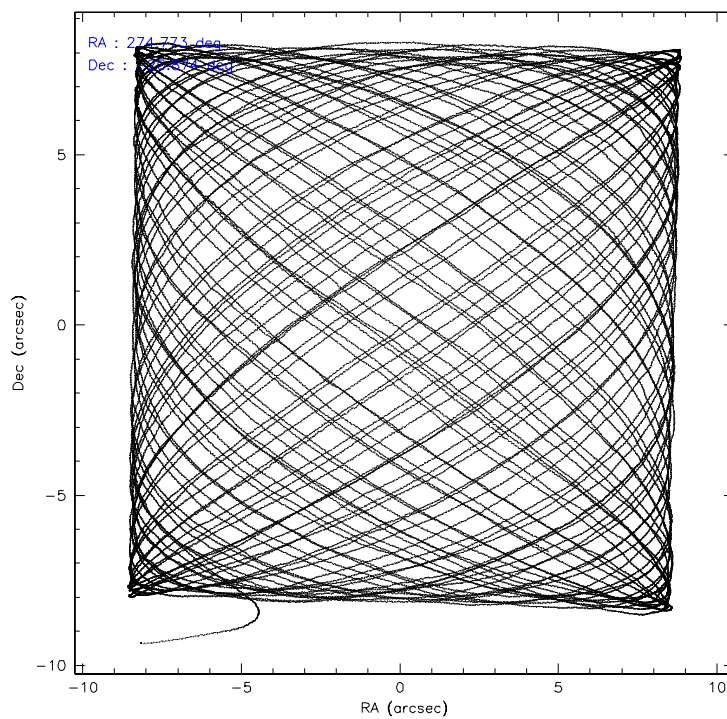
| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 263065 | 354543 | 237351 | 315615 | 307339 | 237268 |
| rejected events | 229921 | 192646 | 205851 | 191768 | 232422 | 205679 |
| rejected % | 87% | 54% | 86% | 60% | 75% | 86% |

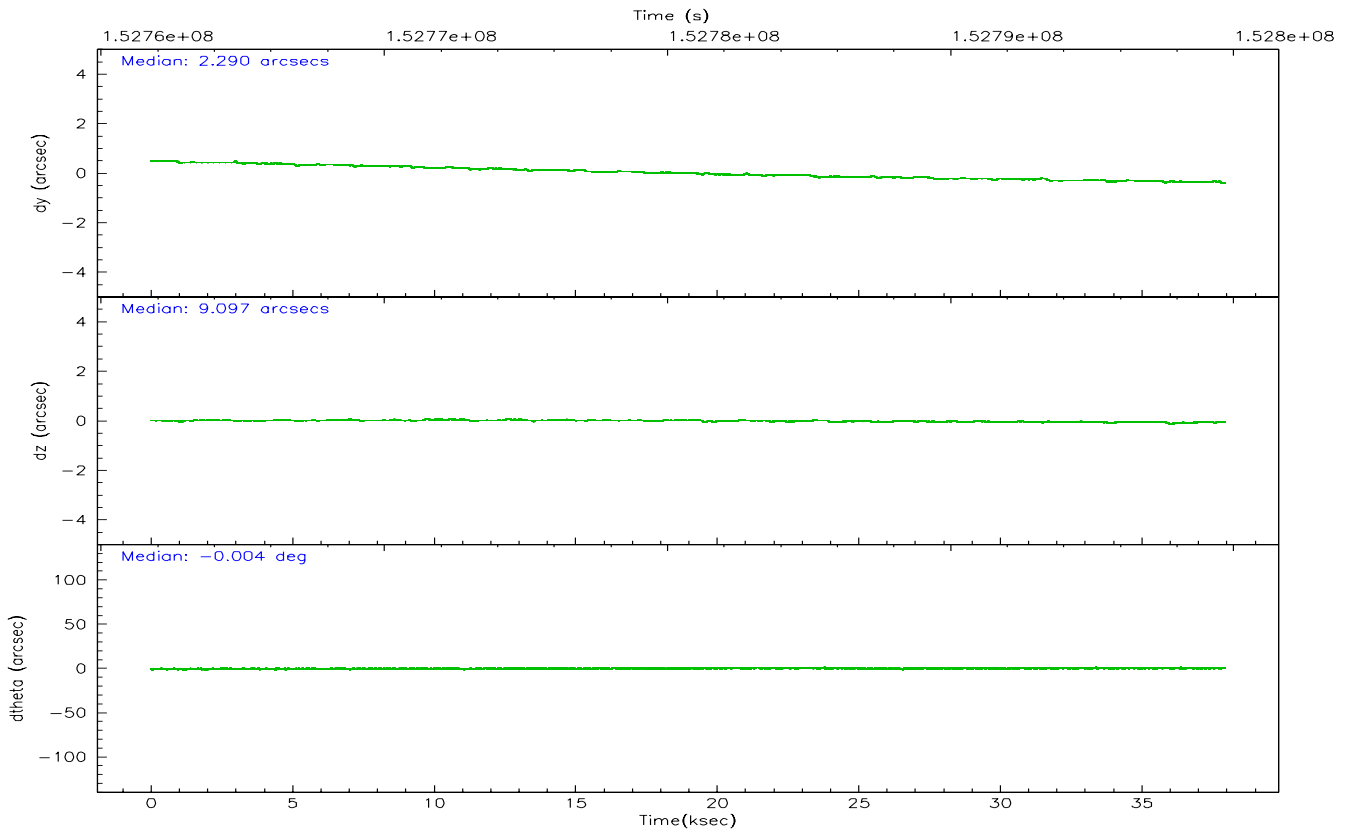
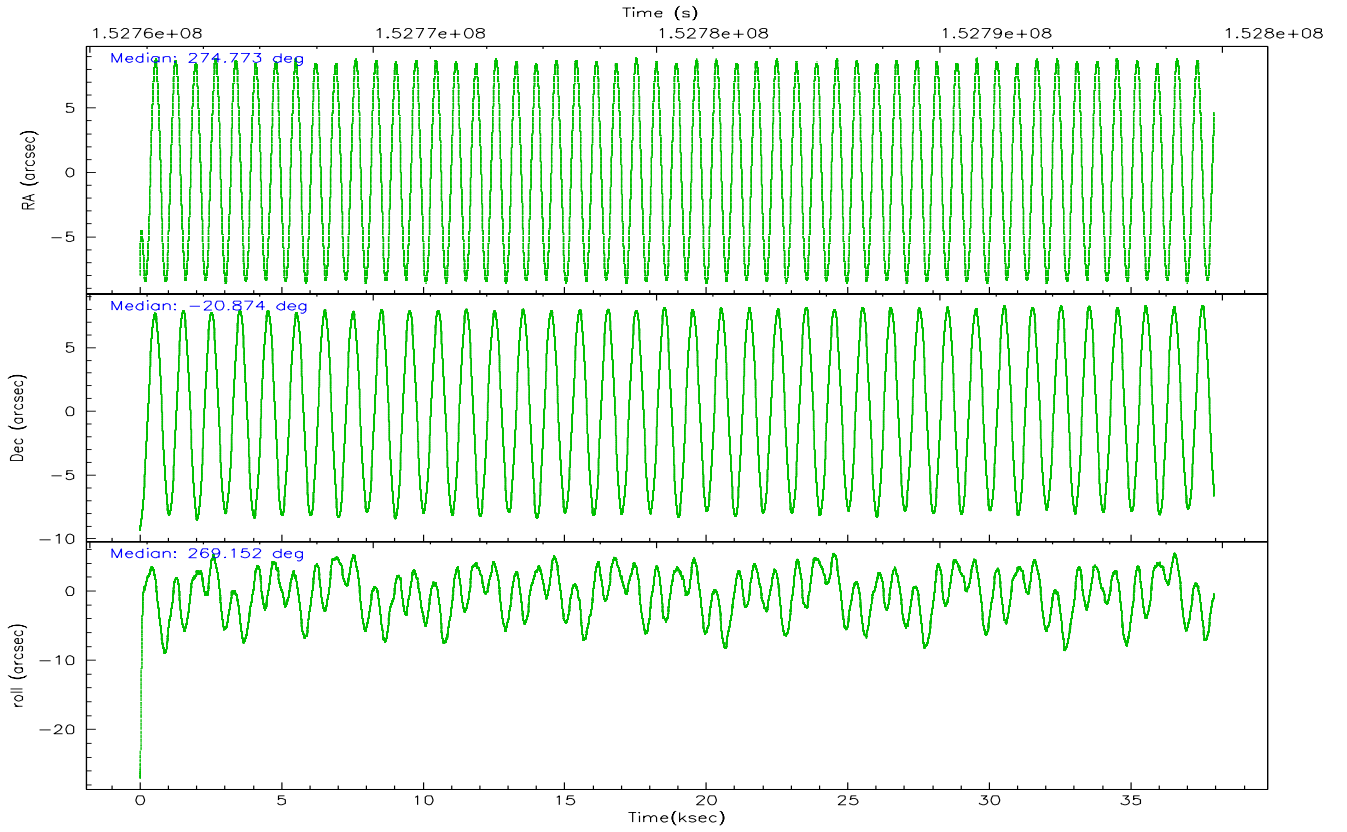
| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 15719 | 19471 | 13853 | 8740 | 25877 | 13852 |
| | 5% | 5% | 5% | 2% | 8% | 5% |
| grade 1 events | 269 | 241 | 122 | 218 | 229 | 128 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 6659 | 48753 | 6387 | 30761 | 14605 | 6149 |
| | 2% | 13% | 2% | 9% | 4% | 2% |
| grade 3 events | 3011 | 4678 | 2748 | 6597 | 9032 | 2920 |
| | 1% | 1% | 1% | 2% | 2% | 1% |
| grade 4 events | 2993 | 3531 | 2748 | 6281 | 8260 | 2780 |
| | 1% | 0% | 1% | 1% | 2% | 1% |
| grade 5 events | 9779 | 18232 | 10358 | 20139 | 13324 | 10959 |
| | 3% | 5% | 4% | 6% | 4% | 4% |
| grade 6 events | 4767 | 85502 | 5766 | 71484 | 17147 | 5891 |
| | 1% | 24% | 2% | 22% | 5% | 2% |
| grade 7 events | 219868 | 174135 | 195369 | 171395 | 218865 | 194589 |
| | 83% | 49% | 82% | 54% | 71% | 82% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-456789 | ACIS-456789 | 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 | 274.758756 | 274.7732688748468 | Subarray requested | NONE | NONE |
| Pointing Dec | -20.850732 | -20.8743393724768 | Alternating exposures requested | N | N |
| Pointing Roll | 268.994134 | 269.1559146239296 | Primary exposure time | 0.000000 | 3.2 |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1425803651734 | | | |
| SIM translation stage offset (mm) | 0 | 0.01005778216563158 | | | |
| Observation start time | 152761902.184000 | 152760927.23363 | | | |
| Observation start date | 2002-11-04T01:50:38 | 2002-11-04T01:35:27 | | | |
| Observation end time | 152799702.184000 | 152800168.84777 | | | |
| Observation end date | 2002-11-04T12:20:38 | 2002-11-04T12:29:28 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



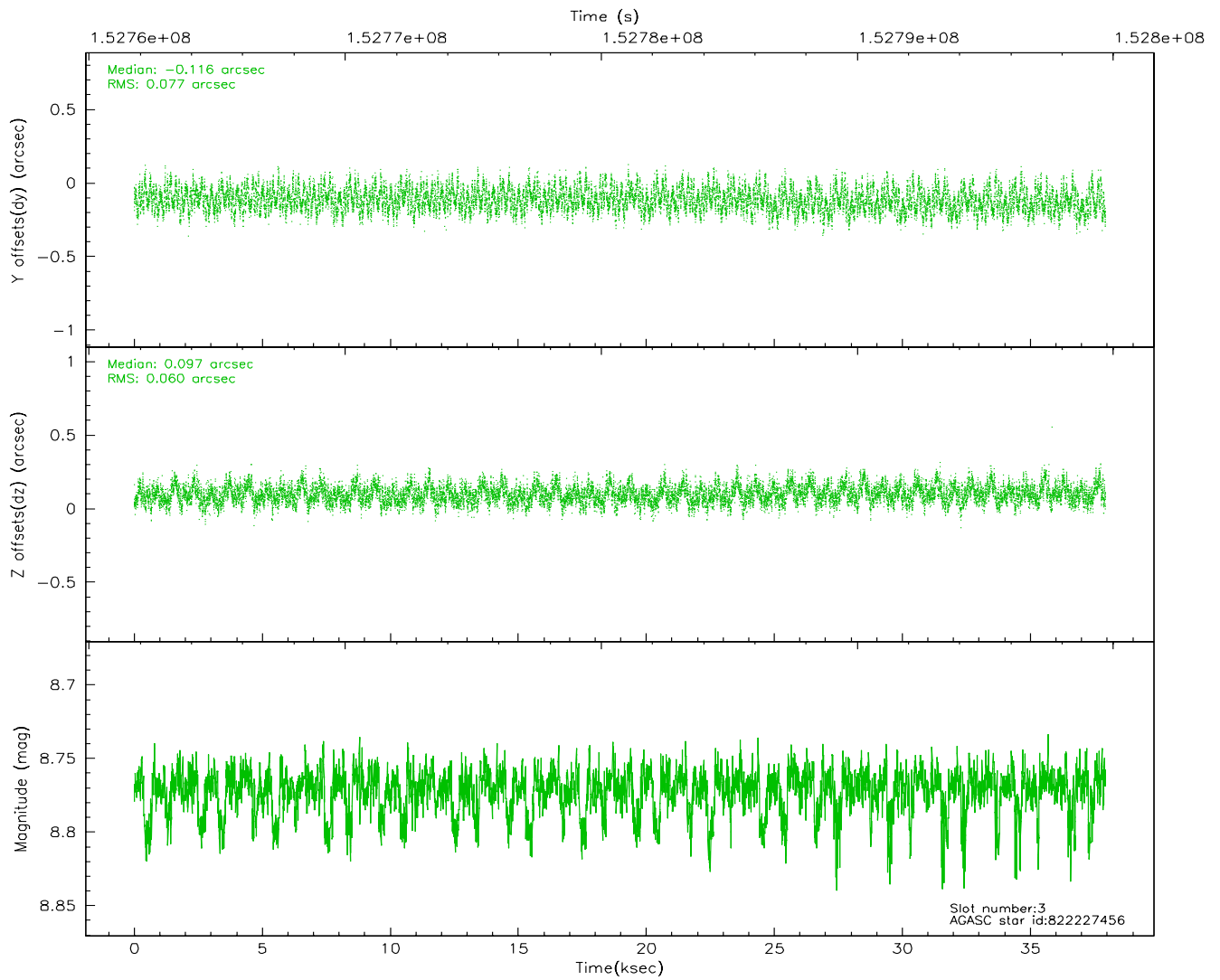
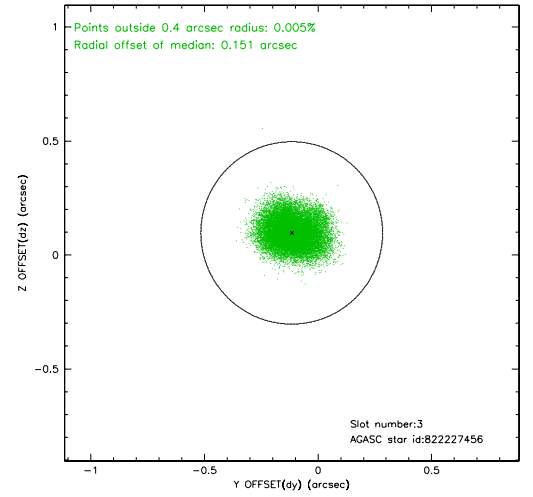
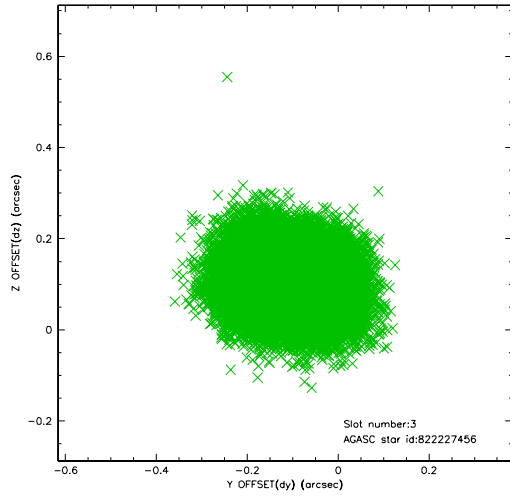


Slot Statistics

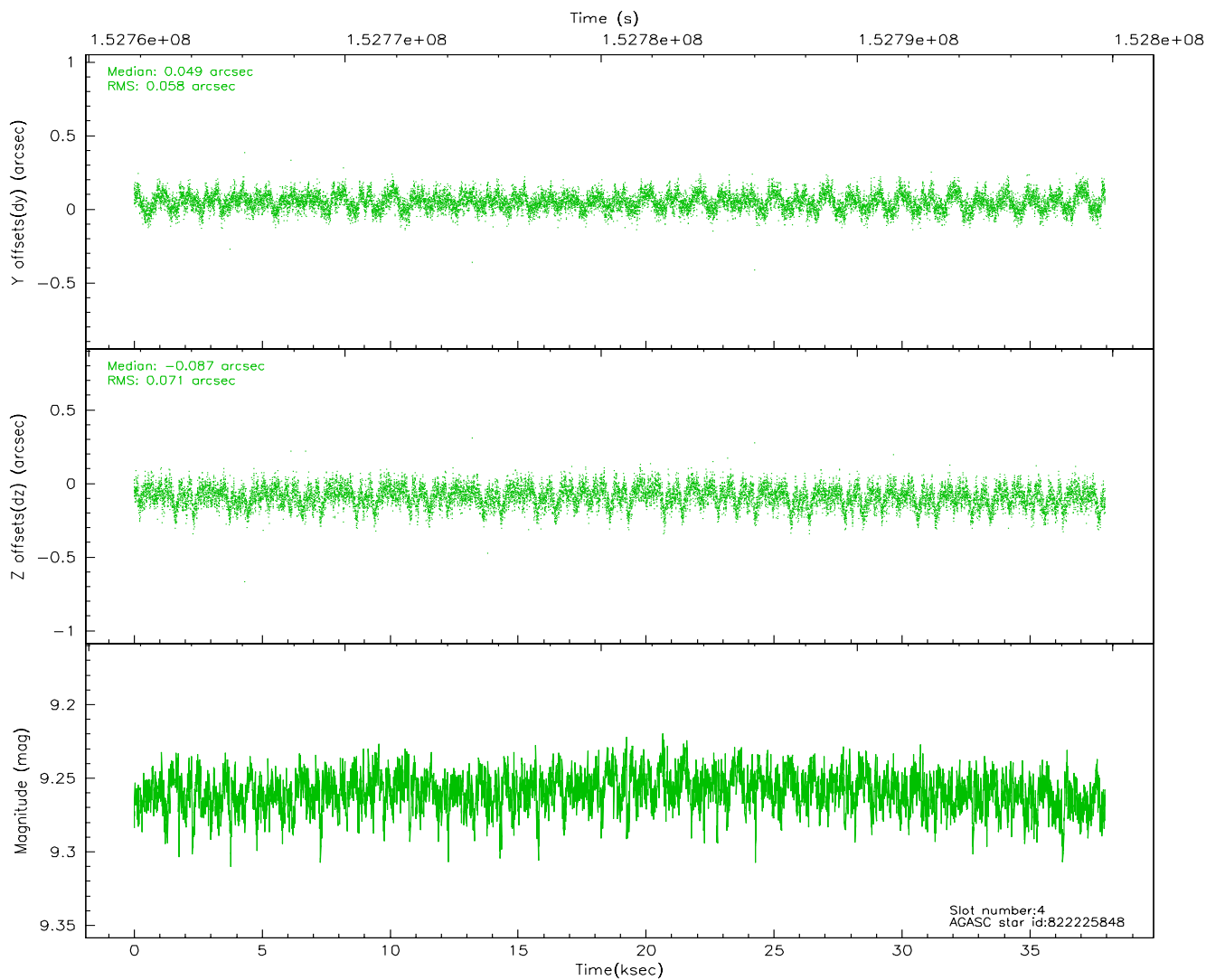
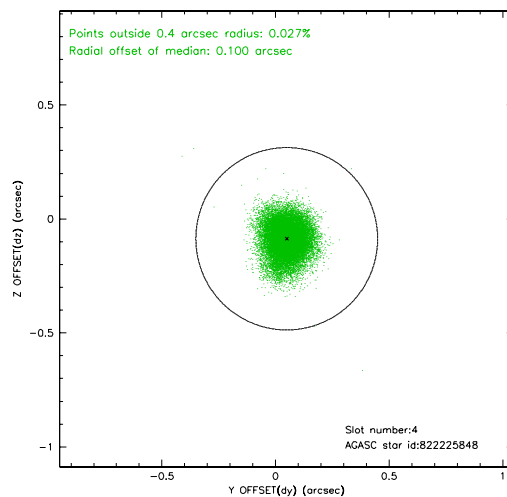
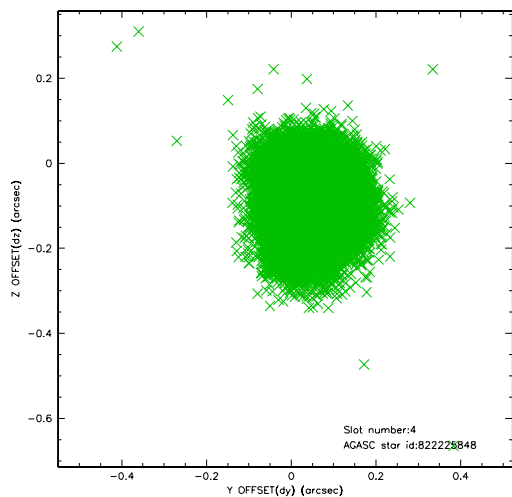
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 9252 | -0.017 | 0.018 | 0.012 | 0.018 | 0.000000 | 0.000000 | -754.95 | -1730.24 |
| 1 | FID | ACIS-S-4 | 7.20 | 9254 | -0.052 | 0.003 | 0.015 | 0.023 | 0.000000 | 0.000000 | 2158.28 | 178.20 |
| 2 | FID | ACIS-S-5 | 7.23 | 9255 | 0.036 | -0.013 | 0.009 | 0.016 | 0.000000 | 0.000000 | -1807.71 | 171.88 |
| 3 | GUIDE | 822227456 | 8.77 | 18503 | -0.116 | 0.097 | 0.106 | 0.165 | 275.283448 | -20.288373 | -2051.74 | 1736.79 |
| 4 | GUIDE | 822225848 | 9.26 | 18496 | 0.049 | -0.087 | 0.099 | 0.158 | 274.398918 | -20.593129 | -903.69 | -1227.99 |
| 5 | GUIDE | 822220528 | 7.86 | 18501 | -0.178 | 0.052 | 0.058 | 0.095 | 275.135629 | -20.216289 | -2303.94 | 1233.51 |
| 6 | GUIDE | 822749968 | 9.33 | 18492 | 0.116 | -0.077 | 0.078 | 0.127 | 274.811645 | -21.310959 | 1654.33 | 207.35 |
| 7 | GUIDE | 822751696 | 9.57 | 18497 | 0.124 | 0.015 | 0.095 | 0.153 | 275.040862 | -21.506818 | 2347.07 | 987.34 |

2.4 Star Slots

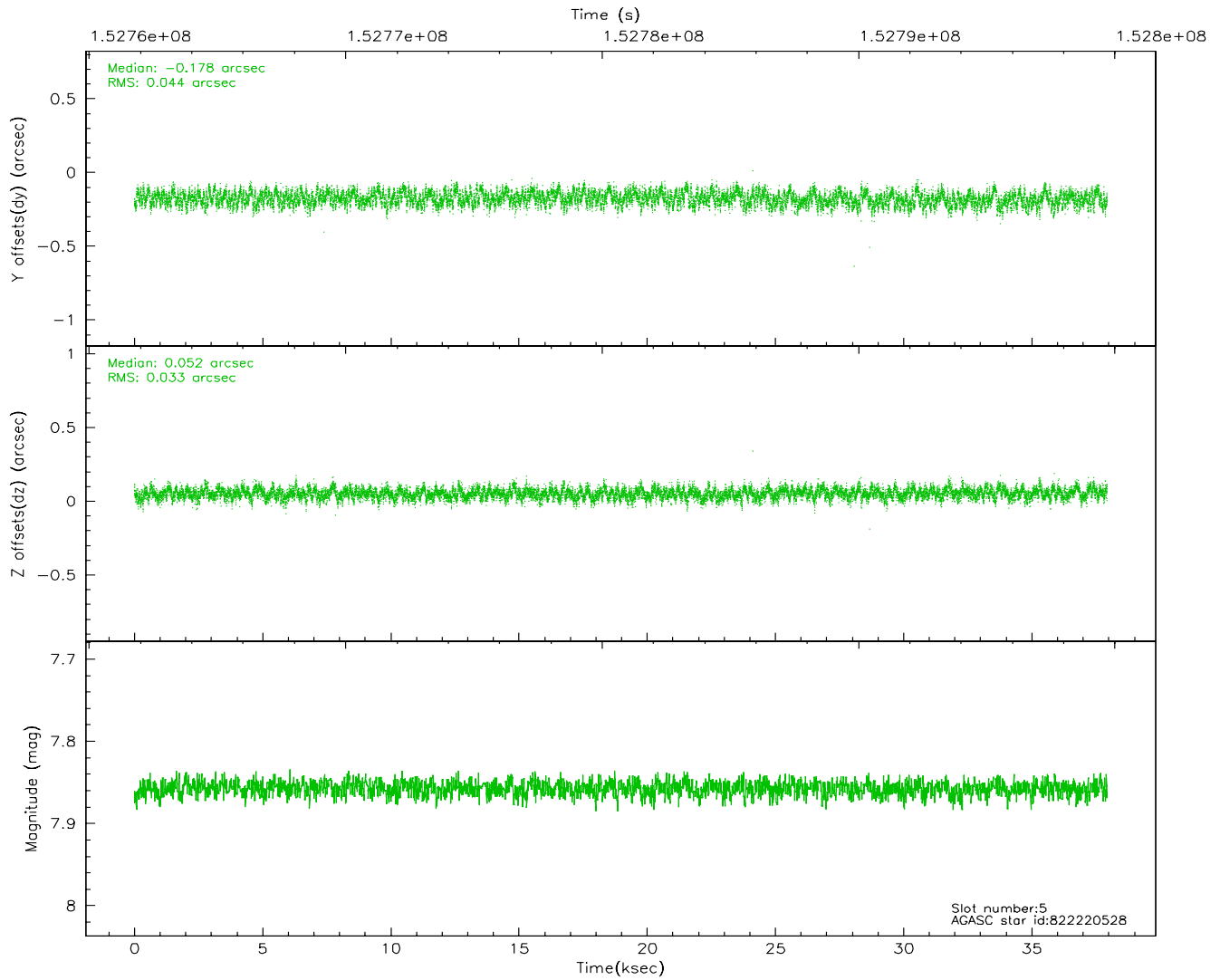
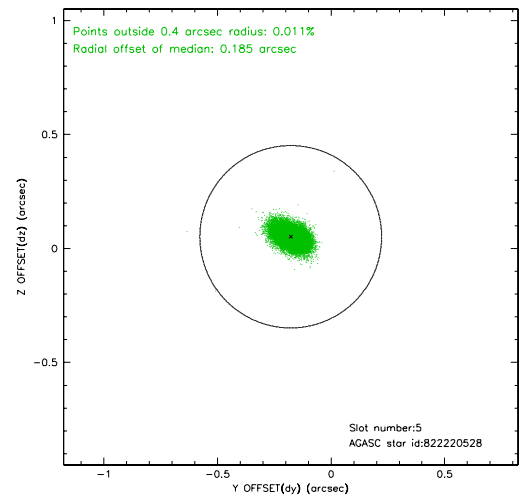
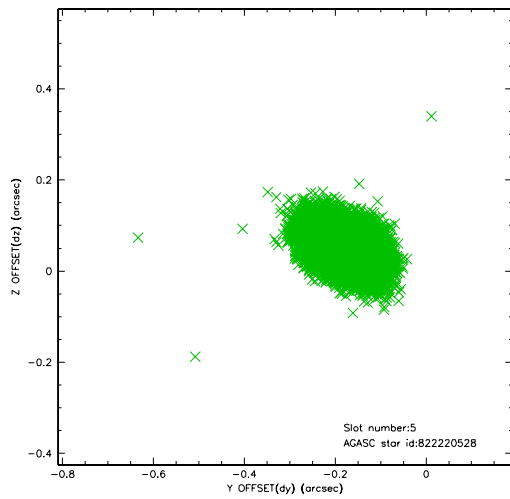
2.4.1 Slot 3



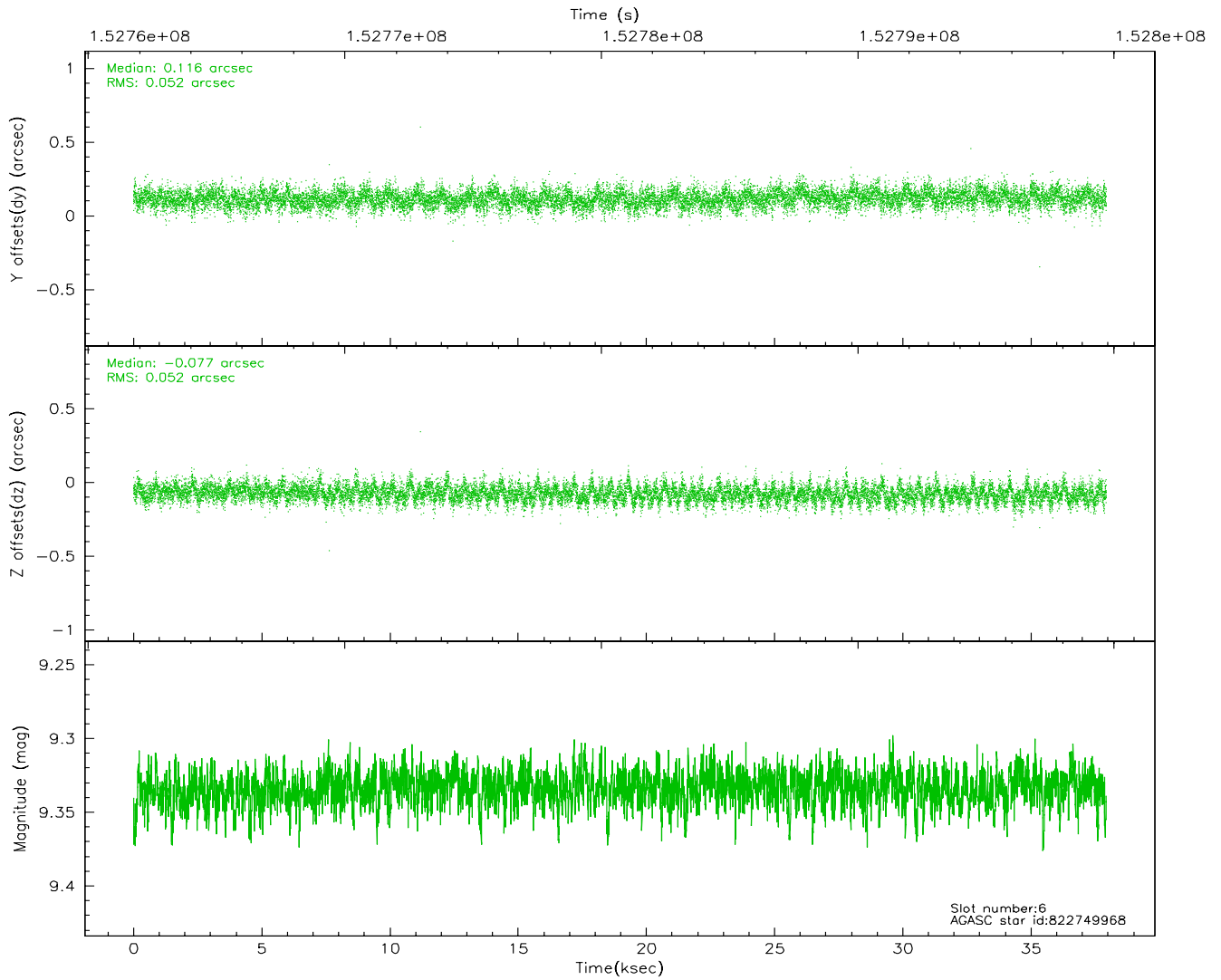
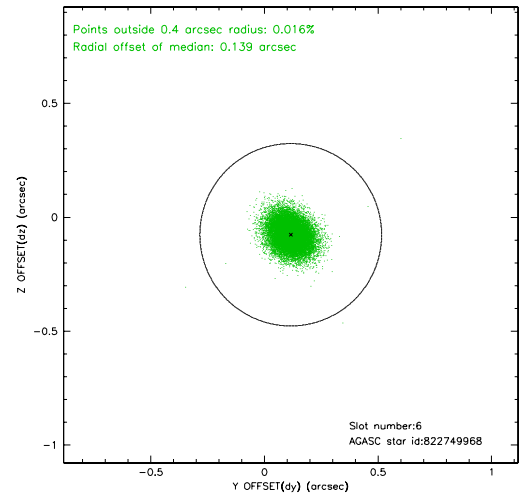
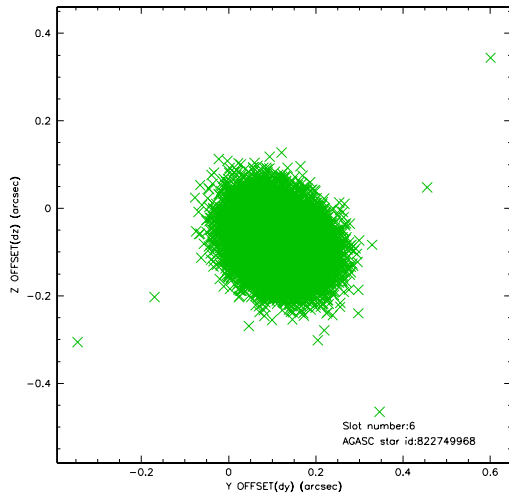
2.4.2 Slot 4



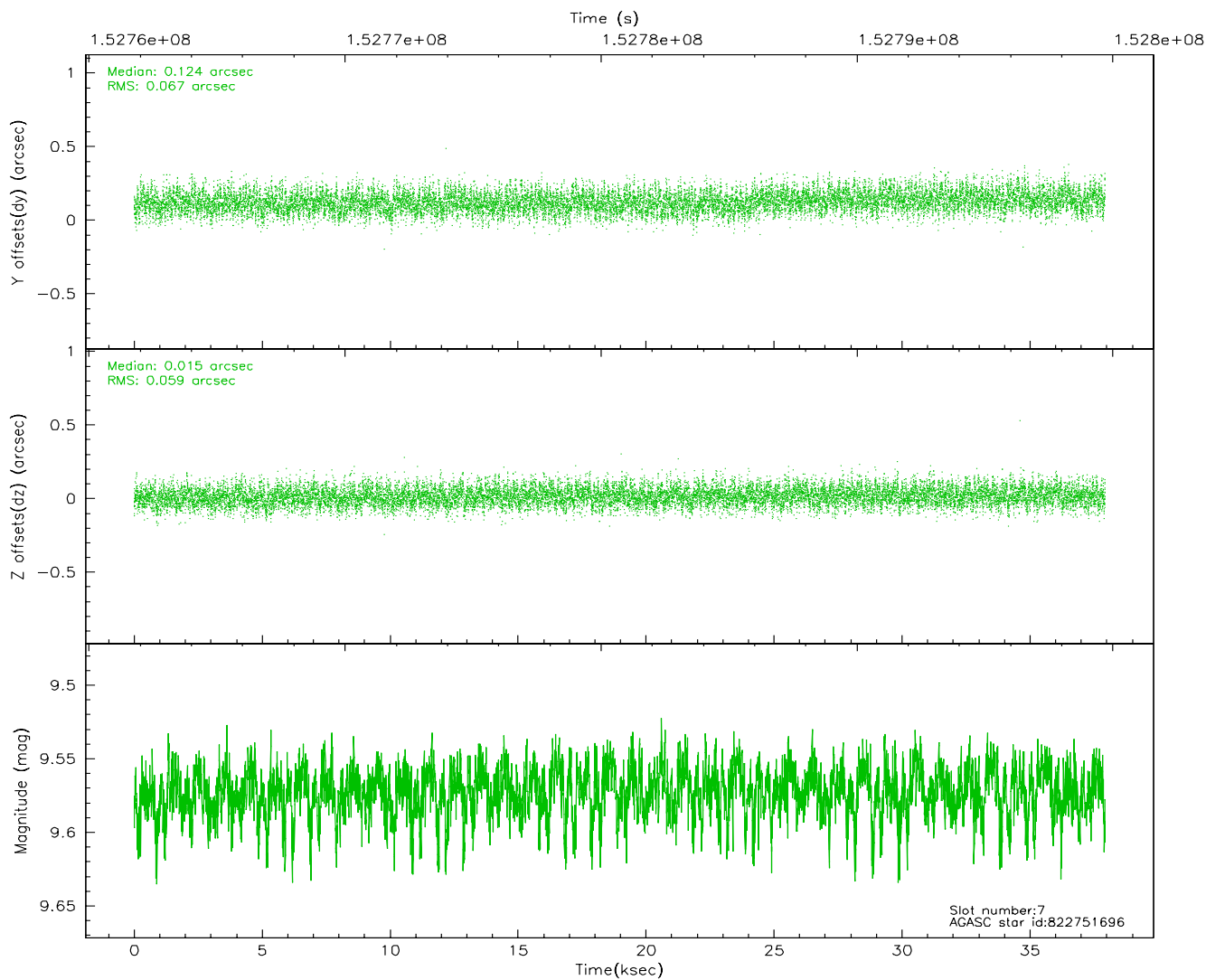
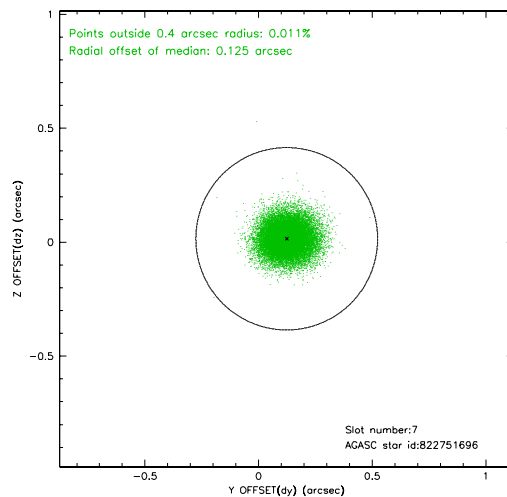
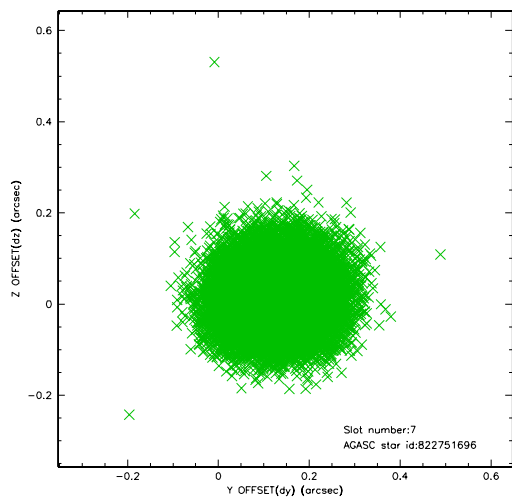
2.4.3 Slot 5



2.4.4 Slot 6

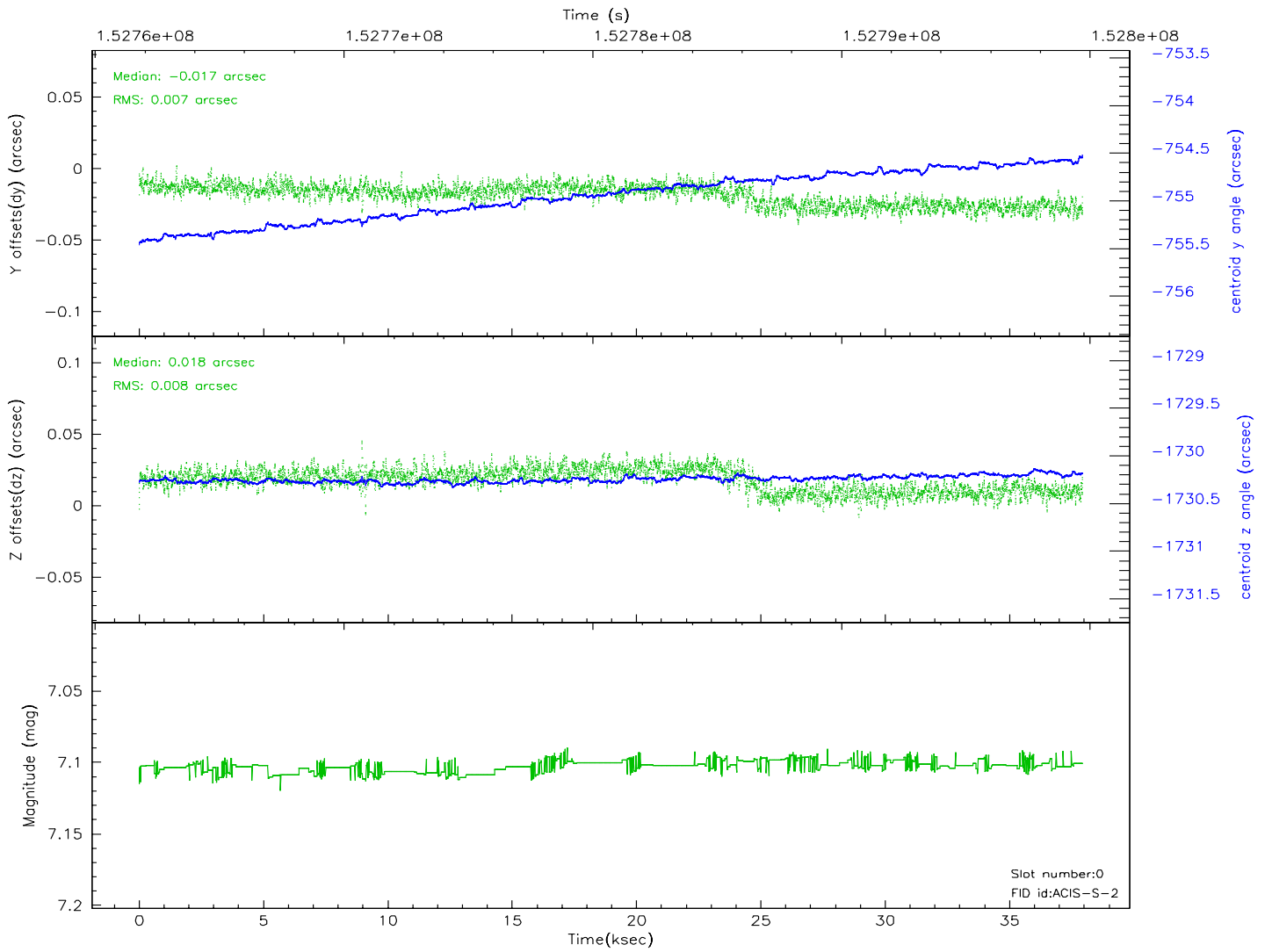
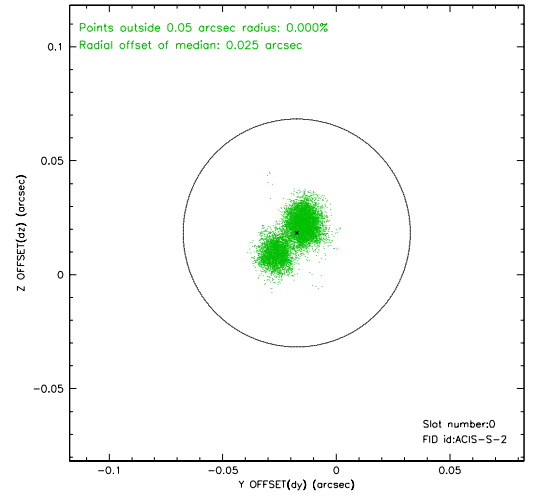
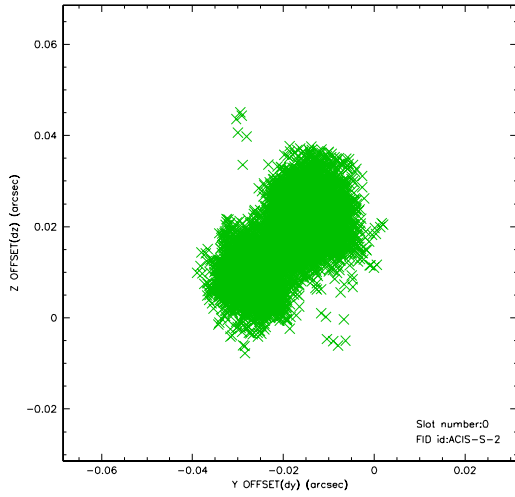


2.4.5 Slot 7

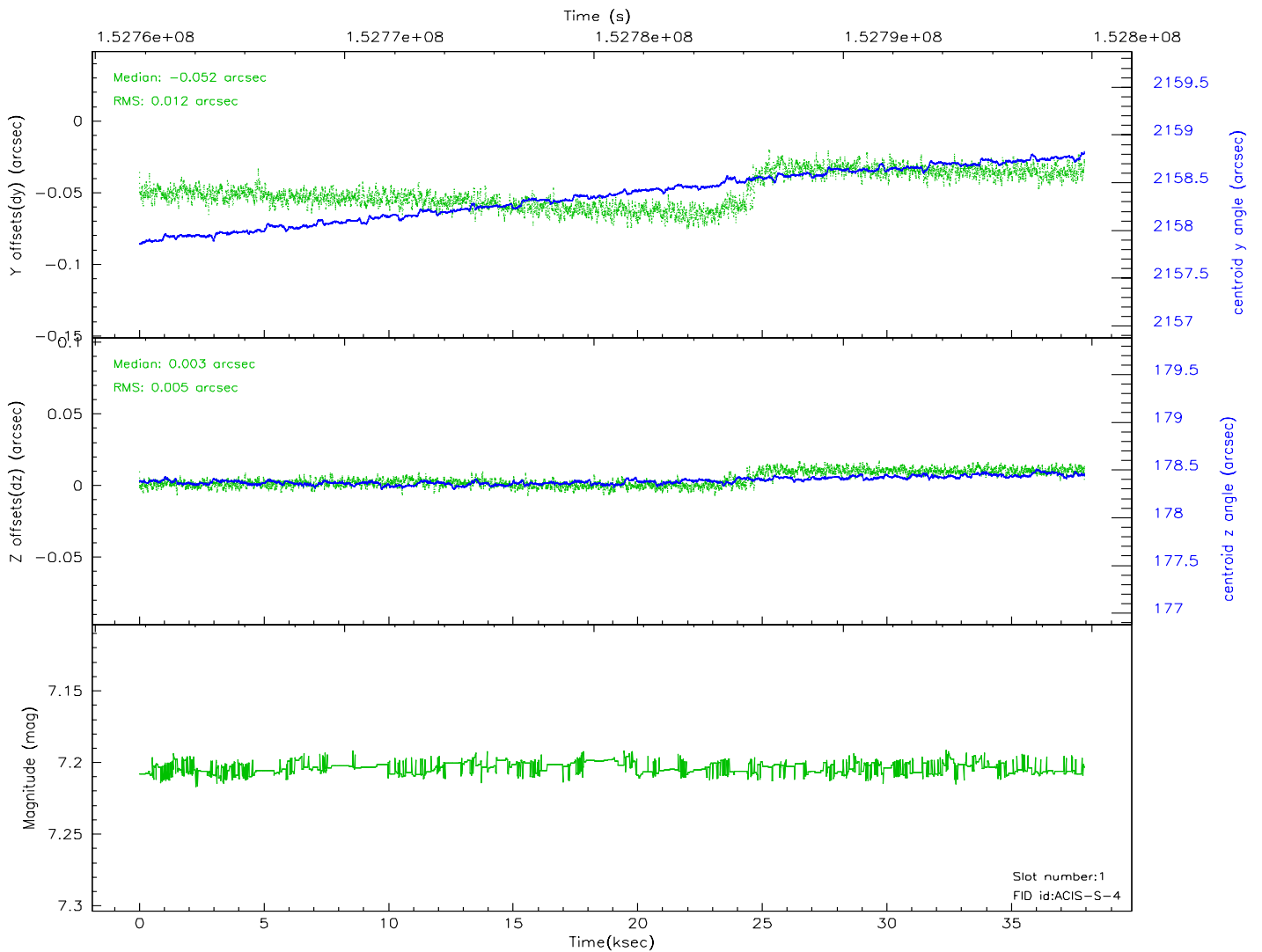
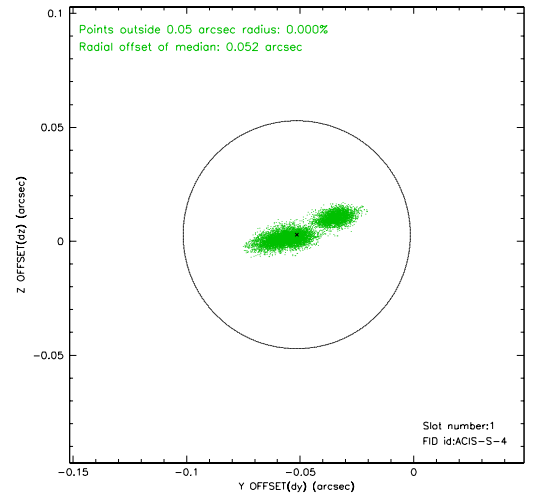
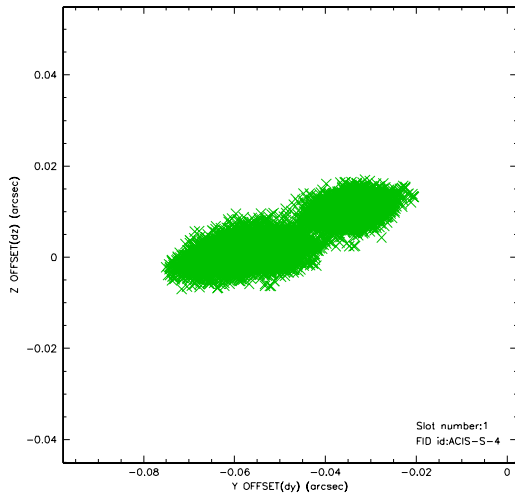


2.5 FID Slots

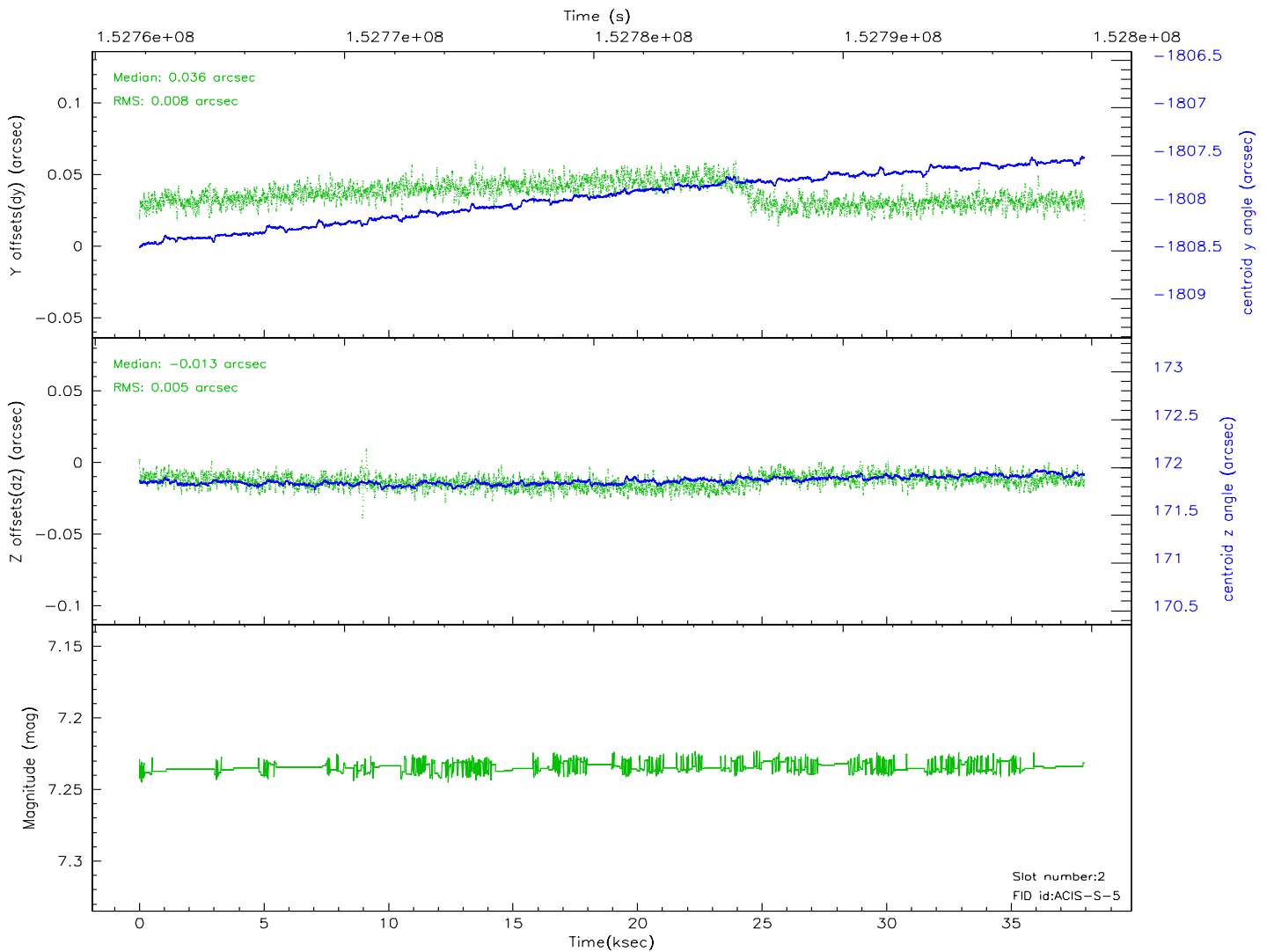
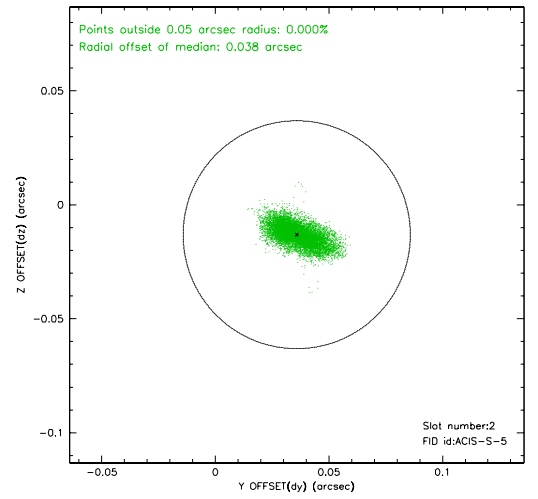
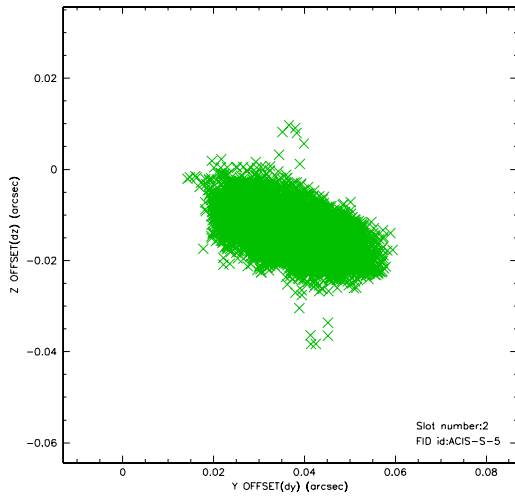
2.5.1 Slot 0



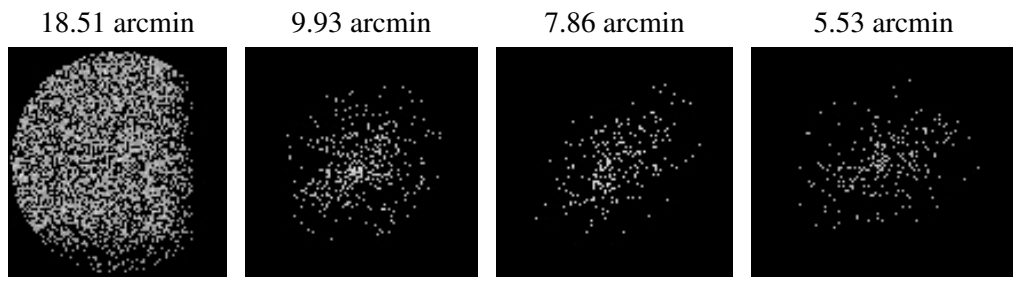
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.10.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 37.788 |

A.2 Comments