

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 913 - L2 Version 001
Chandra X-Ray Center

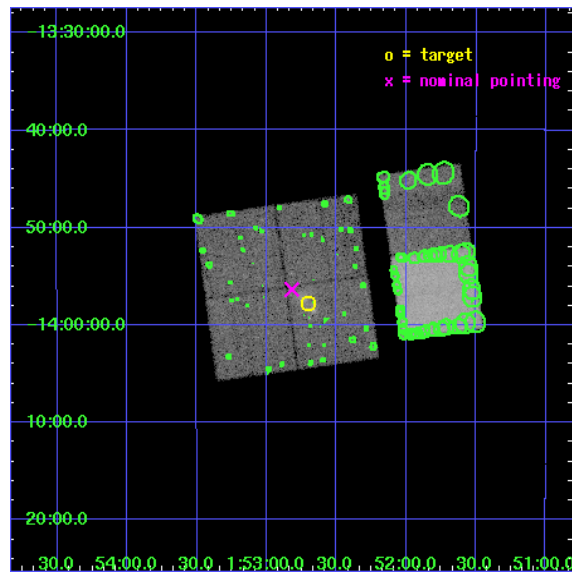
L2 Processing Date : Jun 6 2007

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1 Front

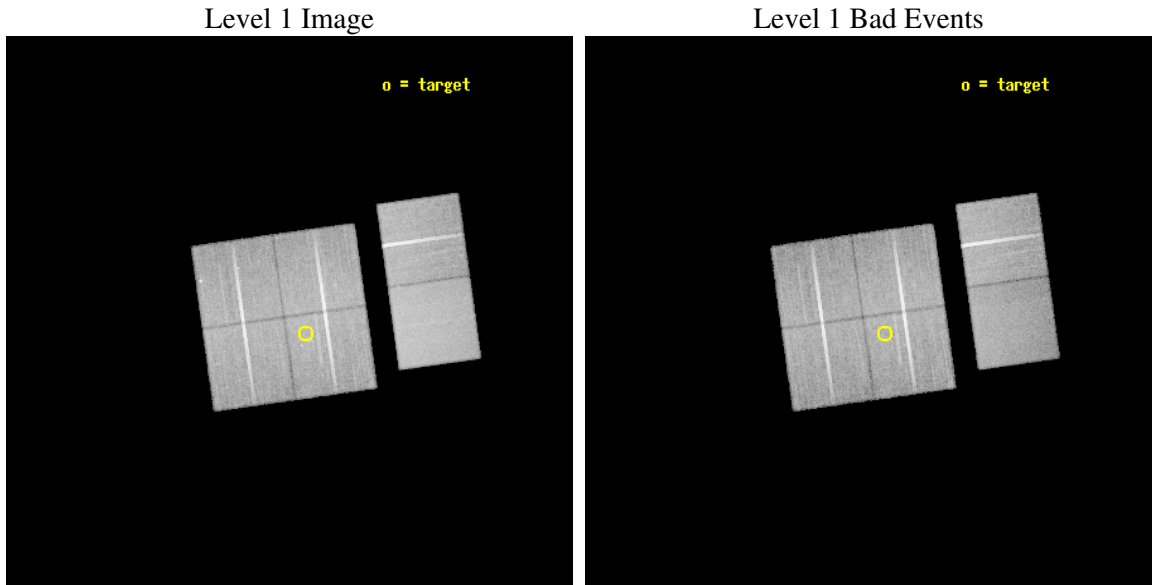
| | |
|----------|---|
| seq_num | 800089 |
| obs_id | 913 |
| title | THE CLUSTER X-RAY TEMPERATURE FUNCTION AT Z>0.6 |
| observer | Dr. Harald Ebeling |
| object | CL J0152.7-1357 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 28.175 |
| dec_targ | -13.9633 |
| ra_nom | 28.204821402803 |
| dec_nom | -13.939350108121 |
| roll_nom | 82.016229718679 |
| revision | 2 |
| ontime | 36950.359074175 |
| livetime | 36482.471378743 |
| ontime0 | 36950.359064177 |
| ontime1 | 36953.600034416 |
| ontime2 | 36953.600034416 |
| ontime3 | 36950.359074175 |
| ontime6 | 36950.359044254 |
| ontime7 | 36953.600034416 |
| l2events | 216549 |



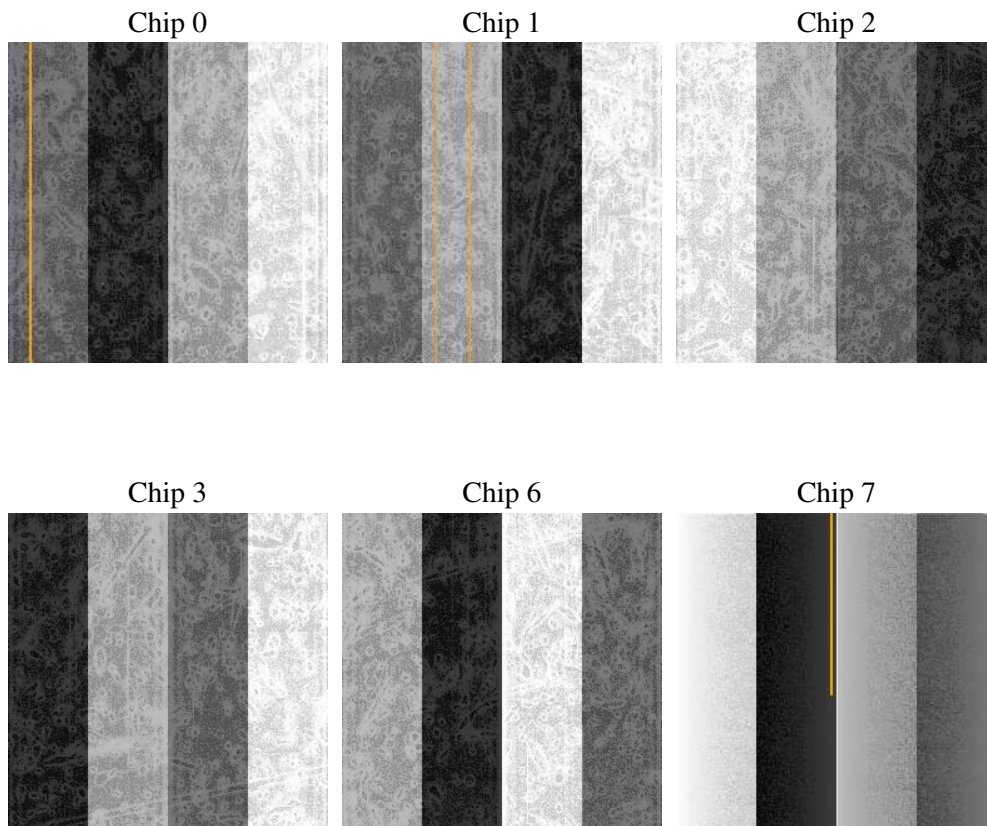
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.10 |
| caldbver | 3.4.0 |
| date | 2007-06-06T22:05:35 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 37000.000000 |
| ontime | 36950.359074175 |
| ontime0 | 36950.359064177 |
| ontime1 | 36953.600034416 |
| ontime2 | 36953.600034416 |
| ontime3 | 36950.359074175 |
| ontime6 | 36950.359044254 |
| ontime7 | 36953.600034416 |
| l1events | 1321809 |

2.1.4 Events

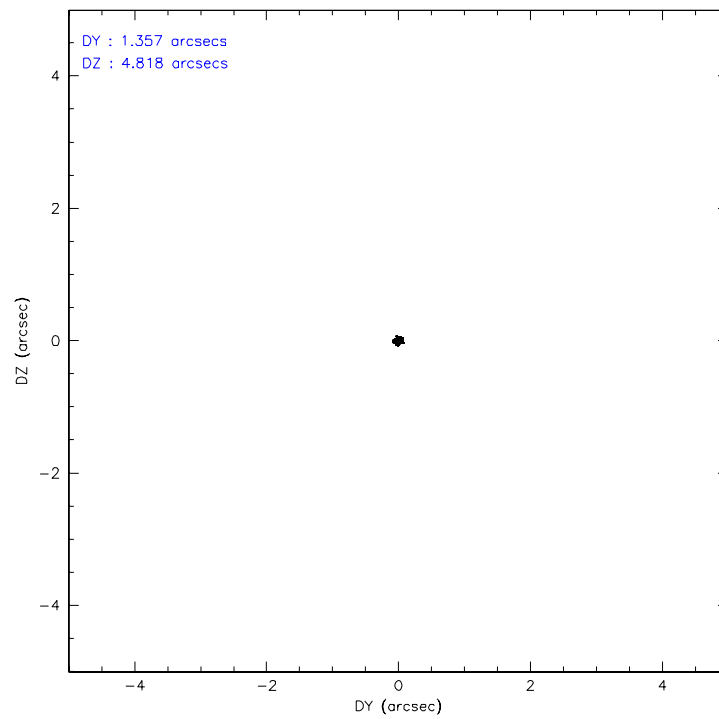
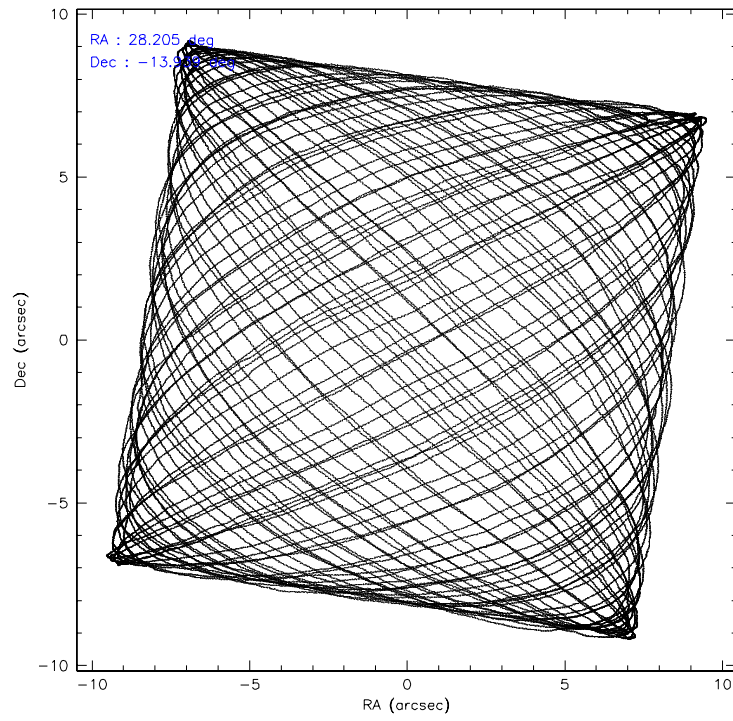
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 199468 | 199875 | 215684 | 217757 | 225236 | 263789 |
| rejected events | 173039 | 173930 | 191816 | 191555 | 200432 | 153613 |
| rejected % | 86% | 87% | 88% | 87% | 88% | 58% |

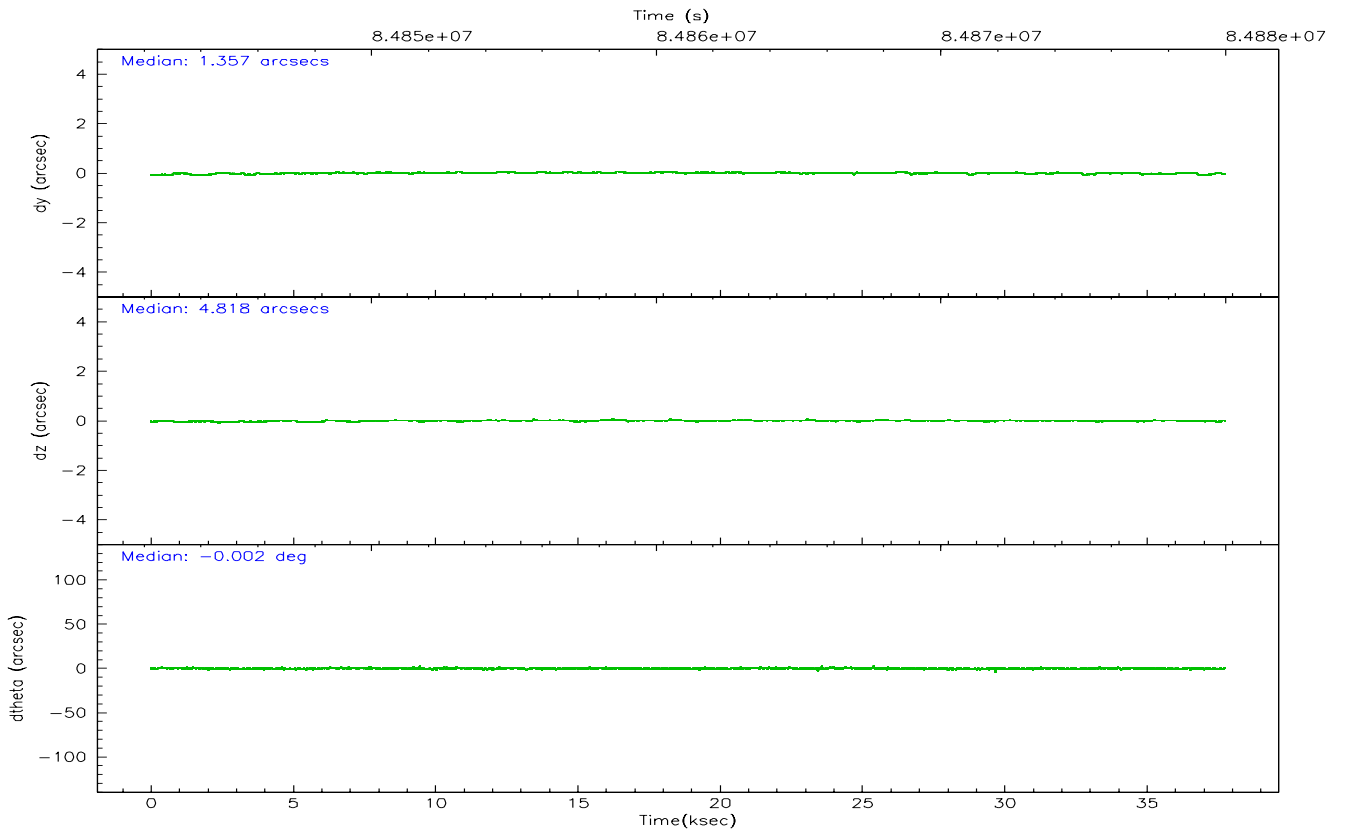
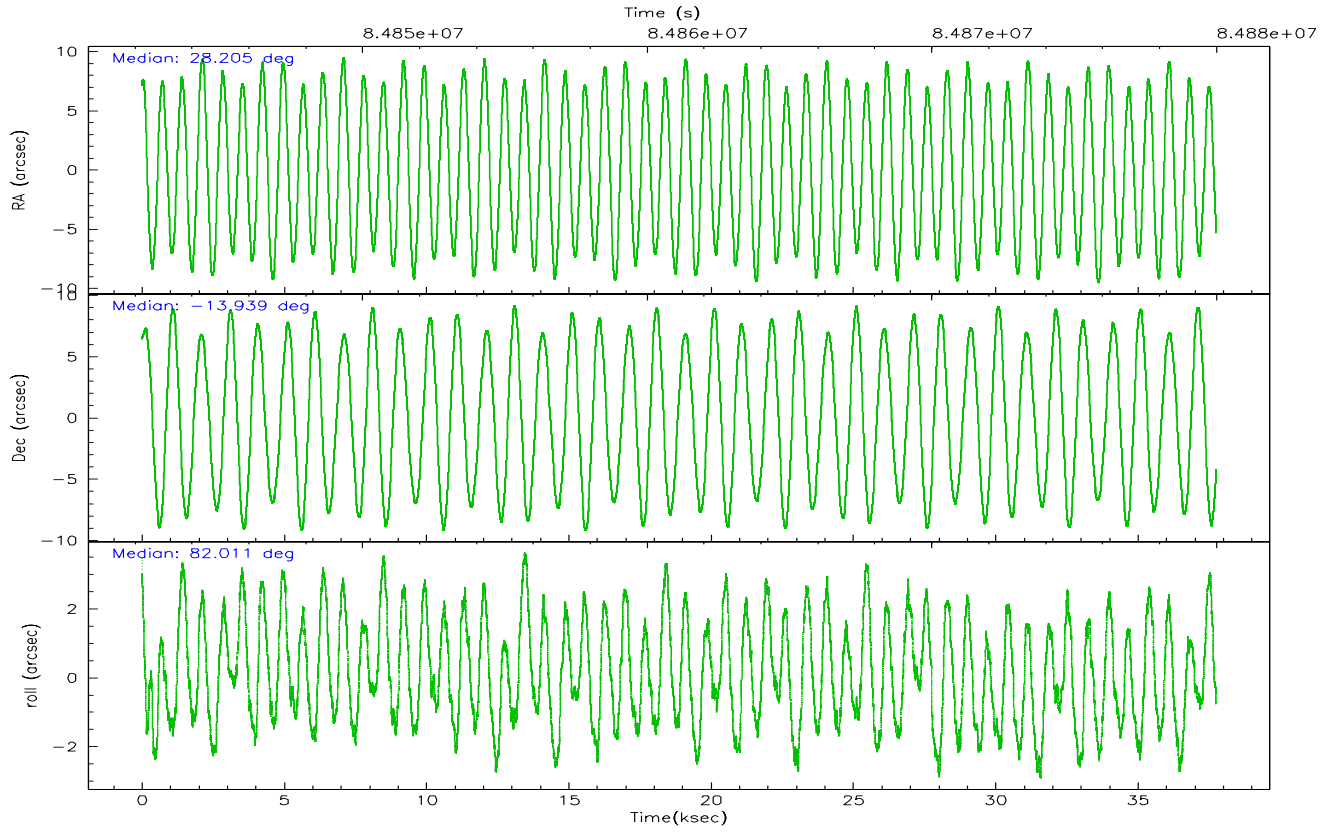
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 11805 | 10688 | 10196 | 12424 | 10171 | 10223 |
| | 5% | 5% | 4% | 5% | 4% | 3% |
| grade 1 events | 101 | 94 | 110 | 92 | 87 | 273 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 5347 | 5223 | 4942 | 4894 | 4958 | 21578 |
| | 2% | 2% | 2% | 2% | 2% | 8% |
| grade 3 events | 2560 | 2657 | 2330 | 2440 | 2445 | 10103 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 4 events | 2445 | 2637 | 2246 | 2288 | 2401 | 9850 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 5 events | 7482 | 7919 | 7080 | 7994 | 9028 | 25272 |
| | 3% | 3% | 3% | 3% | 4% | 9% |
| grade 6 events | 4280 | 4740 | 4158 | 4164 | 4831 | 58442 |
| | 2% | 2% | 1% | 1% | 2% | 22% |
| grade 7 events | 165448 | 165917 | 184622 | 183461 | 191315 | 128048 |
| | 82% | 83% | 85% | 84% | 84% | 48% |

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 | 28.215367 | 28.20482140280288 | Subarray requested | NONE | NONE |
| Pointing Dec | -13.964904 | -13.9393501081207 | Alternating exposures requested | N | N |
| Pointing Roll | 81.810081 | 82.01622971867931 | Primary exposure time | 3.200000 | 3.2 |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -233.592463 | -233.5924630914318 | | | |
| SIM translation stage offset (mm) | 0 | 1.008850210837409e-05 | | | |
| Observation start time | 84842992.184000 | 84841755.952439 | | | |
| Observation start date | 2000-09-08T23:28:48 | 2000-09-08T23:09:15 | | | |
| Observation end time | 84879992.184000 | 84880241.116384 | | | |
| Observation end date | 2000-09-09T09:45:28 | 2000-09-09T09:50:41 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



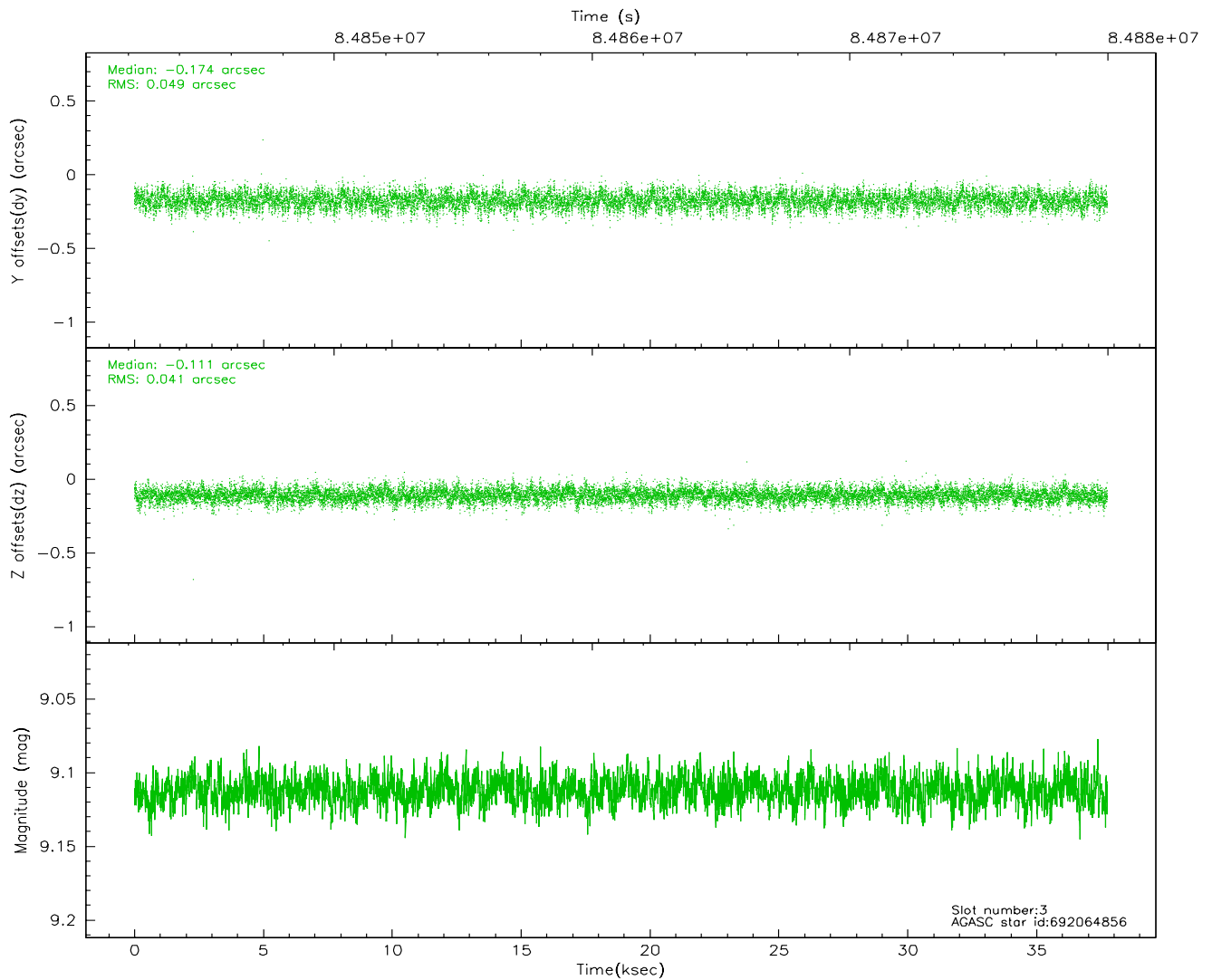
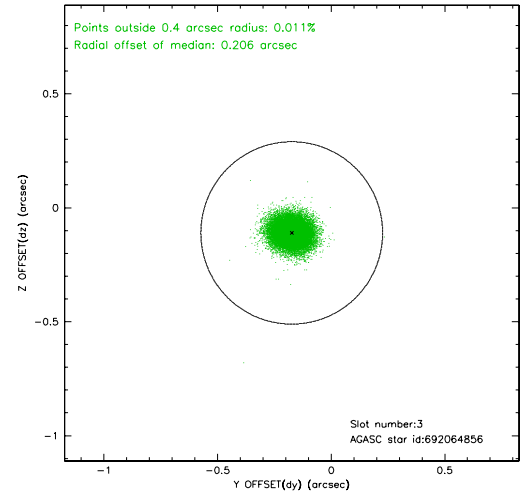
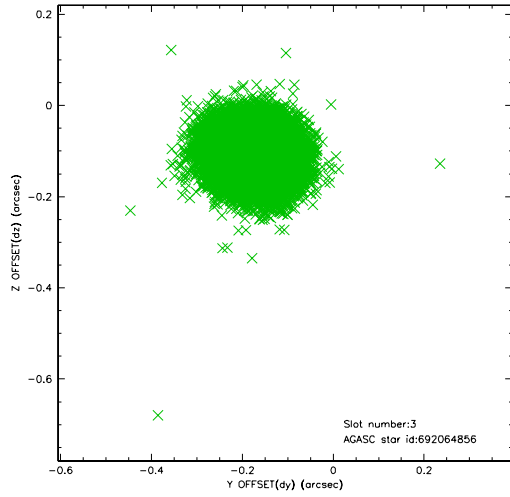


Slot Statistics

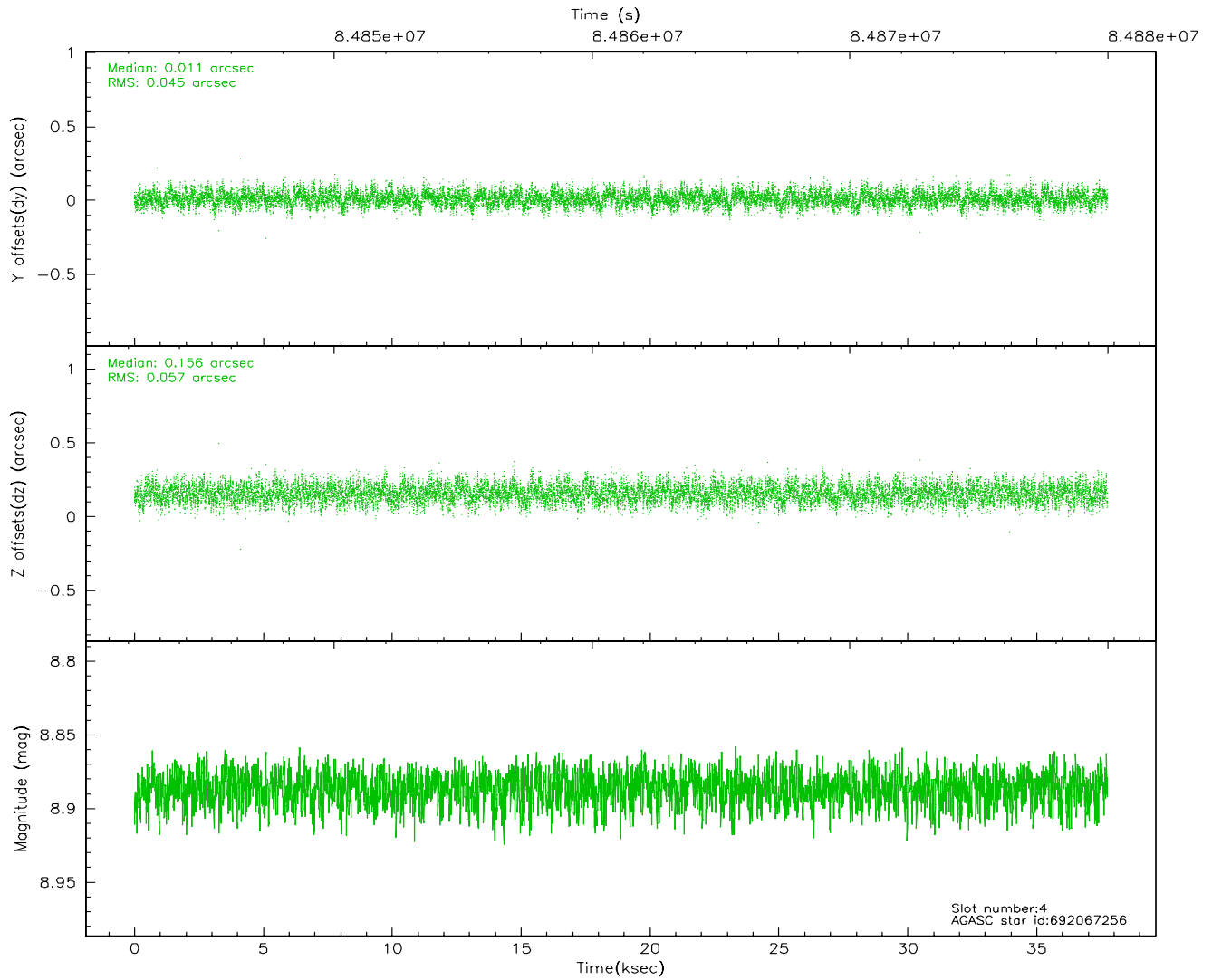
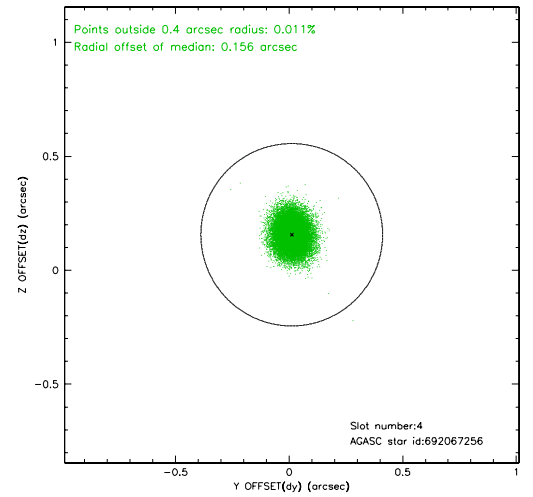
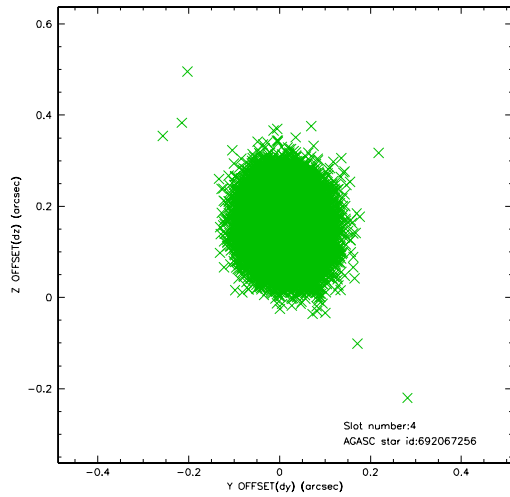
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-I-2 | 7.15 | 9205 | -0.021 | -0.006 | 0.009 | 0.015 | 0.000000 | 0.000000 | -755.71 | -834.42 |
| 1 | FID | ACIS-I-4 | 7.19 | 9206 | -0.074 | 0.023 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2158.28 | 1071.78 |
| 2 | FID | ACIS-I-5 | 7.23 | 9206 | -0.006 | 0.052 | 0.009 | 0.014 | 0.000000 | 0.000000 | -1809.49 | 1069.67 |
| 3 | GUIDE | 692064856 | 9.11 | 18409 | -0.174 | -0.111 | 0.068 | 0.109 | 27.844359 | -13.441810 | 1677.83 | 1554.70 |
| 4 | GUIDE | 692067256 | 8.89 | 18408 | 0.011 | 0.156 | 0.078 | 0.123 | 28.829272 | -14.105112 | -196.43 | -2193.00 |
| 5 | GUIDE | 692068240 | 8.90 | 18403 | 0.057 | -0.072 | 0.073 | 0.119 | 28.031376 | -14.077680 | -493.39 | 578.51 |
| 6 | GUIDE | 692065408 | 9.63 | 18400 | 0.130 | -0.029 | 0.119 | 0.192 | 27.790543 | -14.395351 | -1745.95 | 1245.87 |
| 7 | GUIDE | 692064968 | 9.87 | 18399 | -0.029 | 0.055 | 0.107 | 0.174 | 28.653268 | -13.675432 | 1248.55 | -1366.97 |

2.4 Star Slots

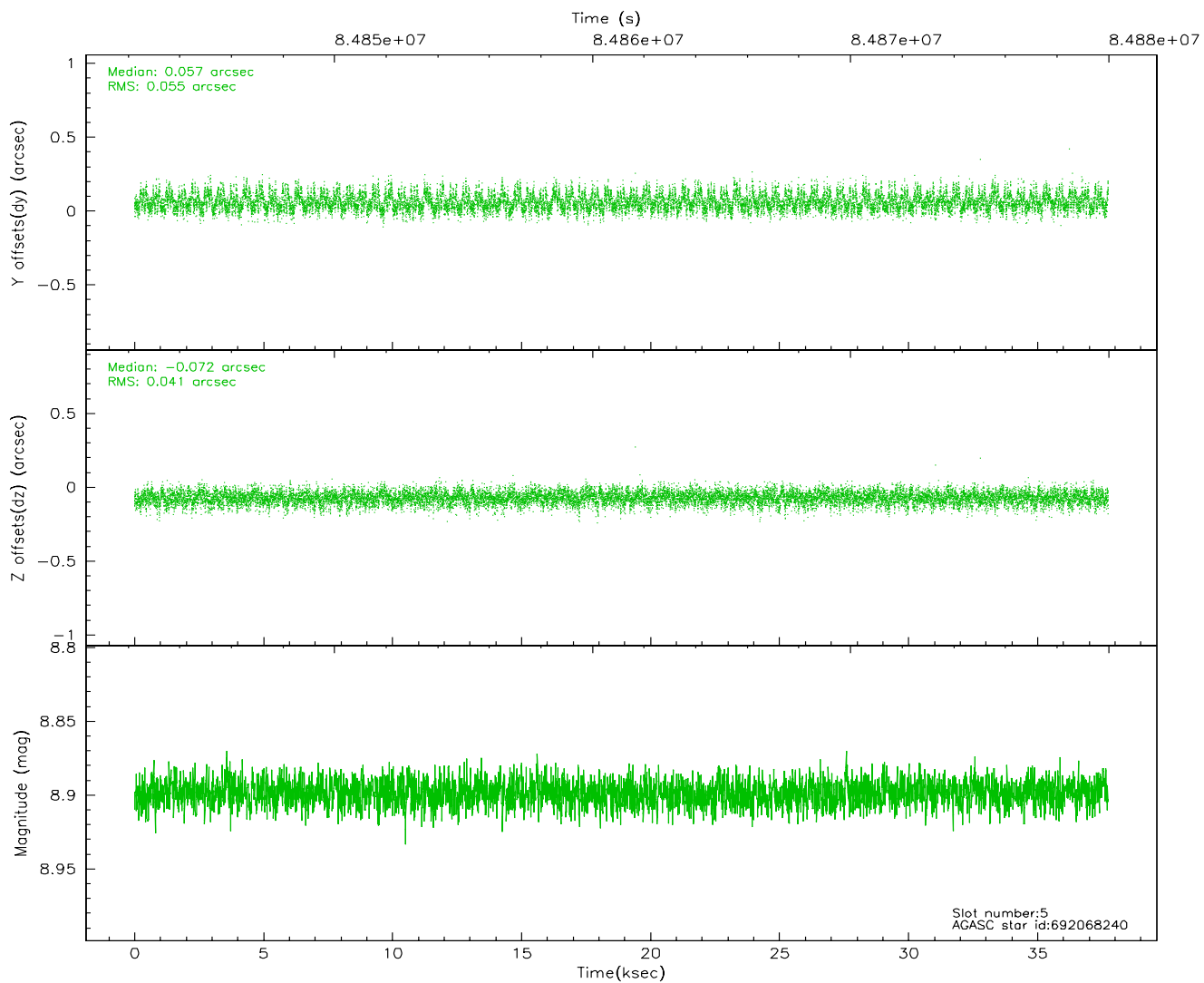
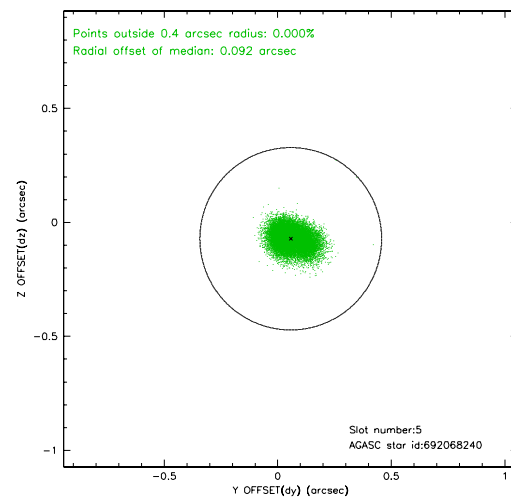
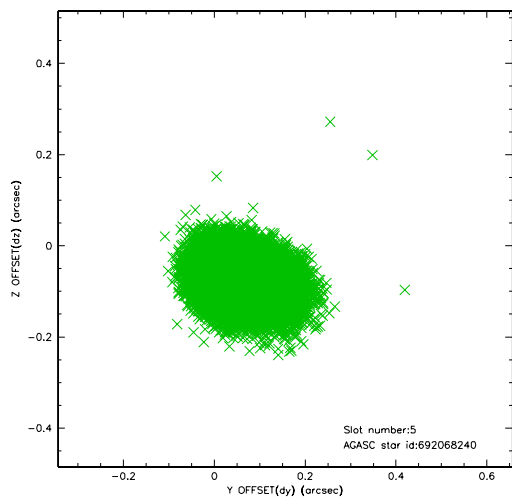
2.4.1 Slot 3



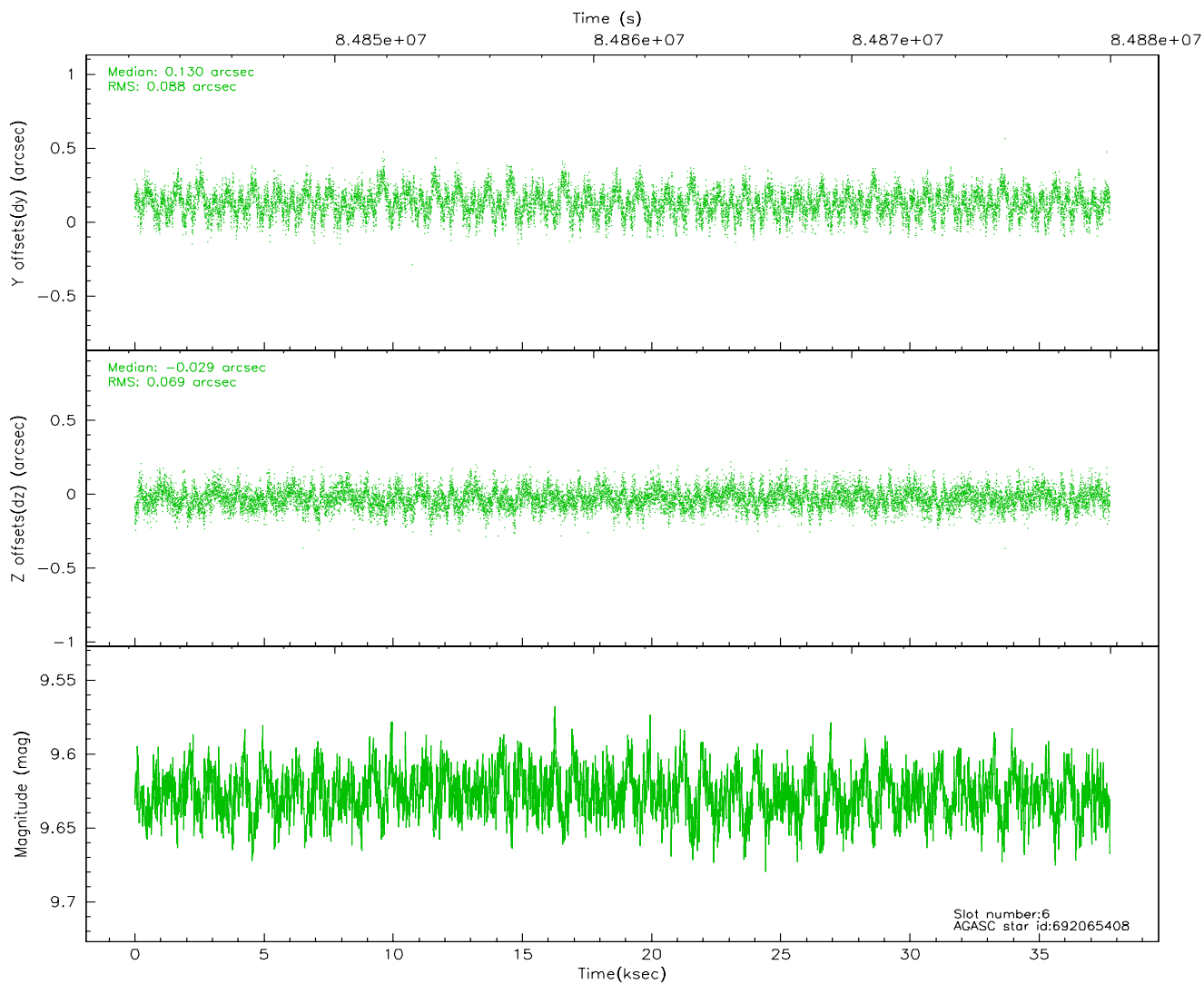
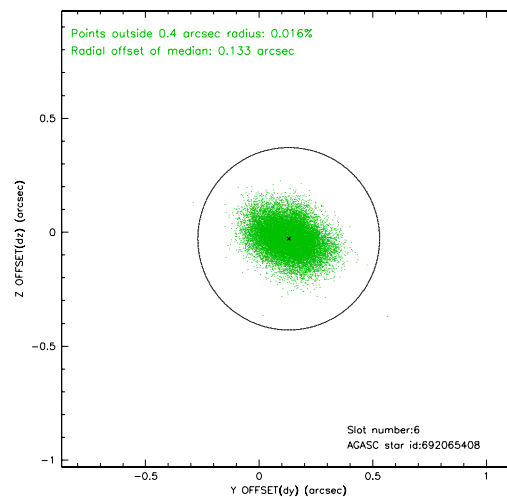
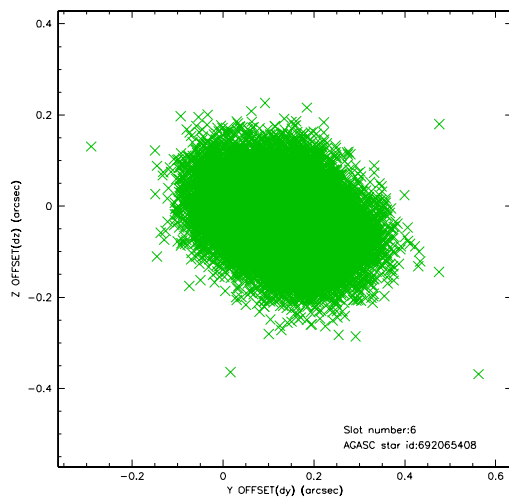
2.4.2 Slot 4



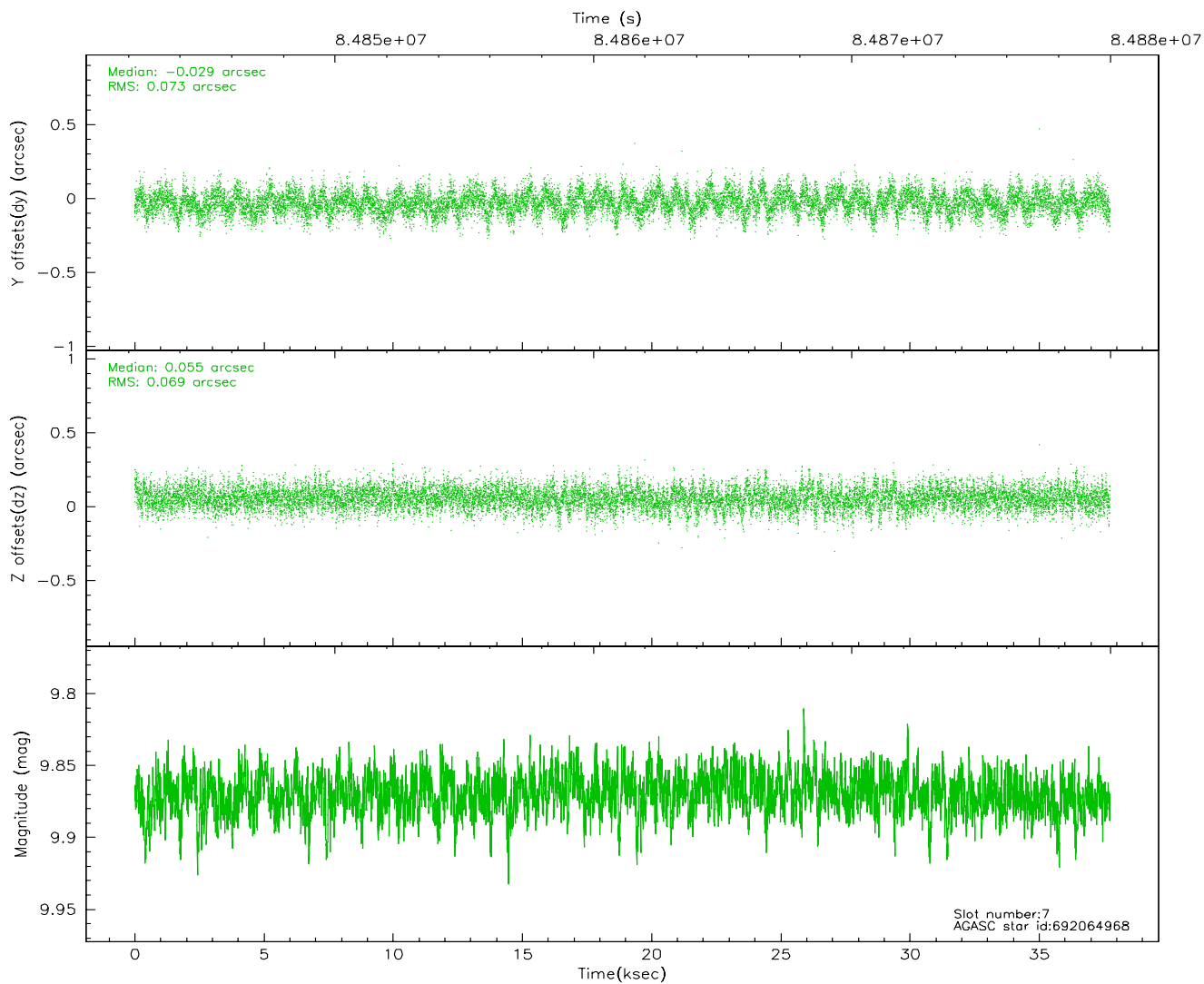
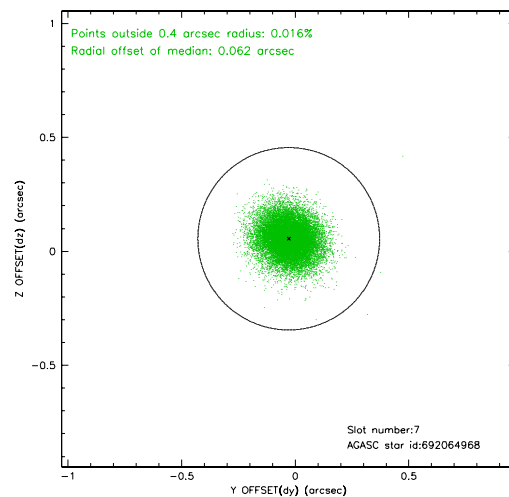
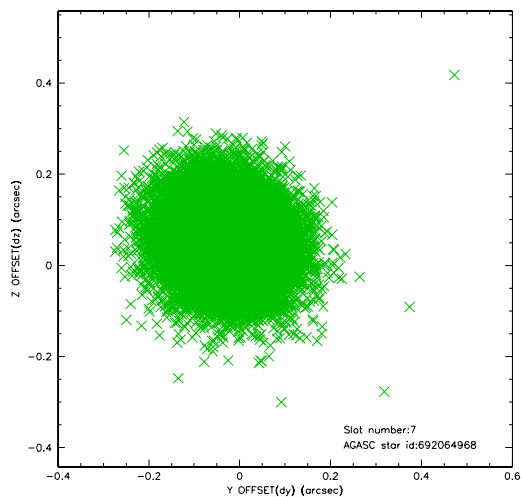
2.4.3 Slot 5



2.4.4 Slot 6

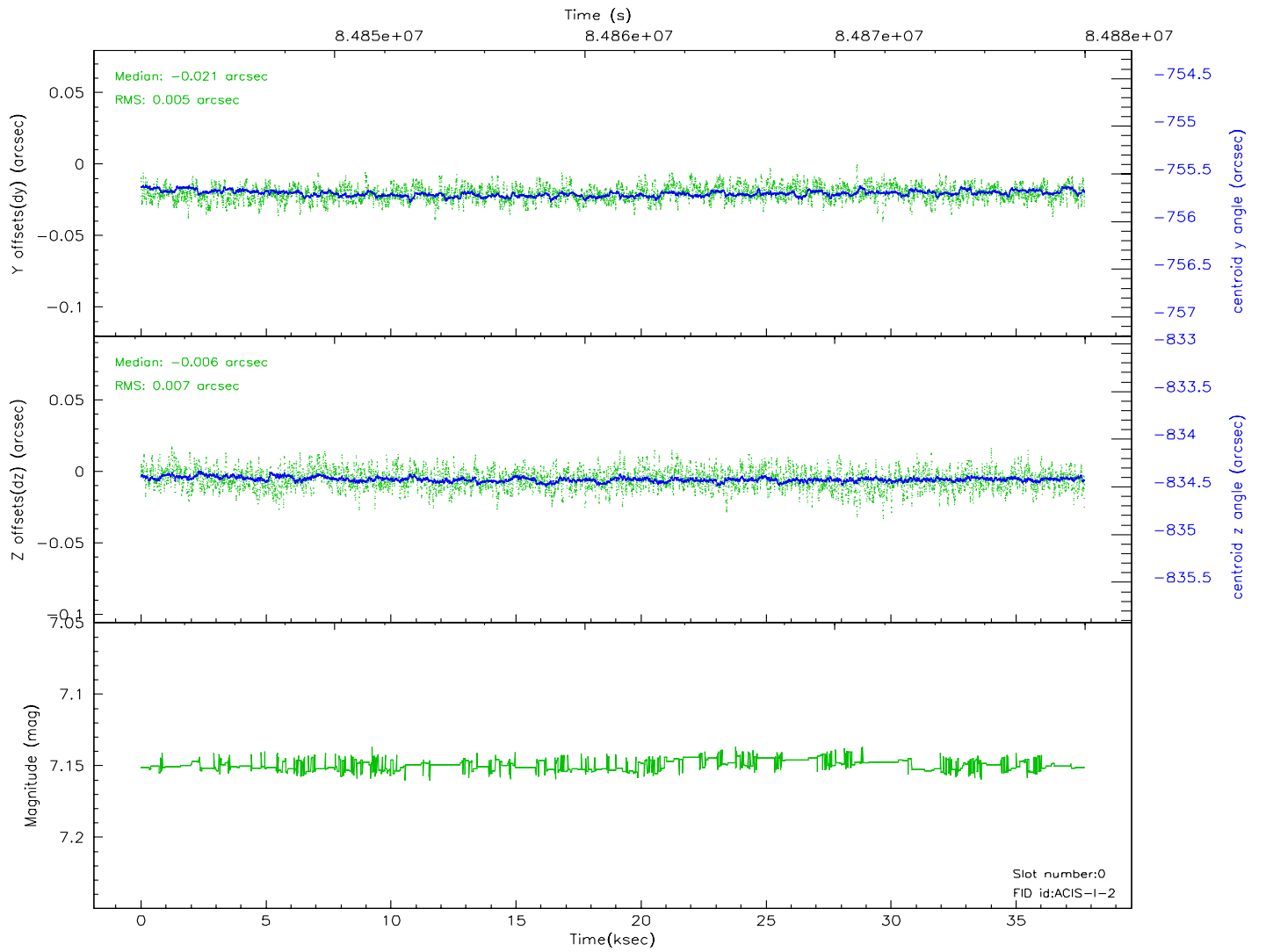
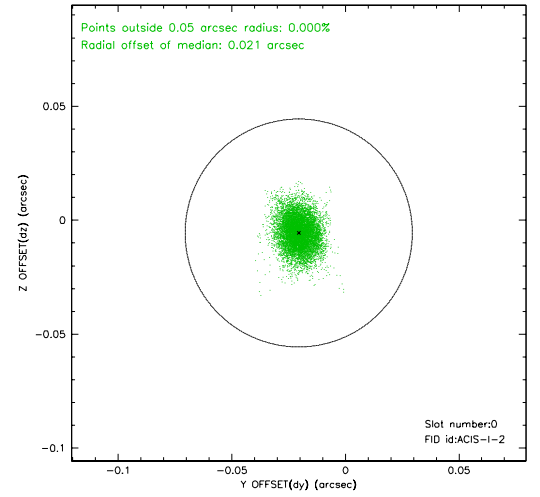
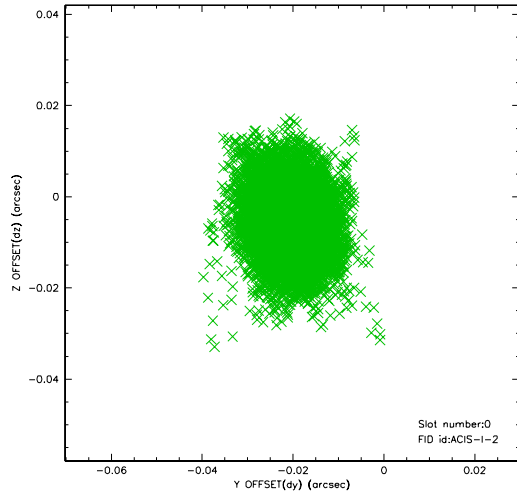


2.4.5 Slot 7

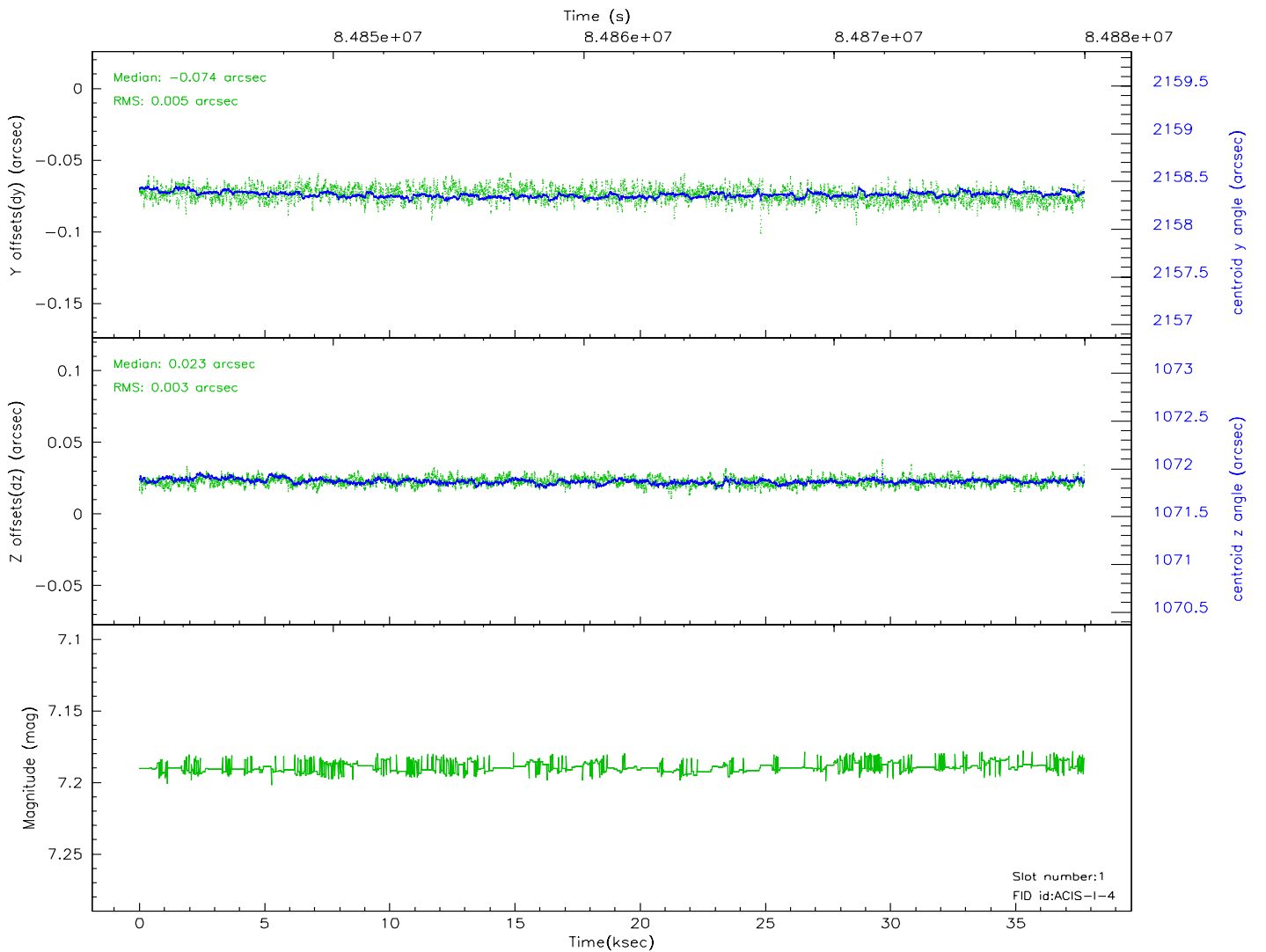
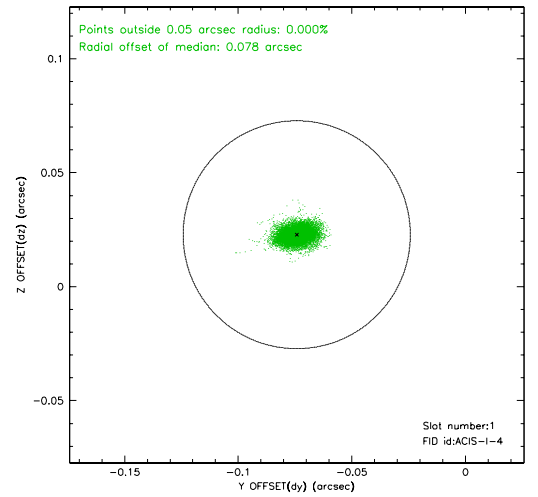
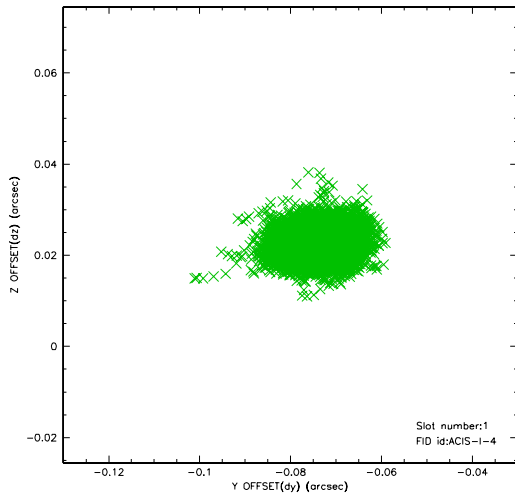


2.5 FID Slots

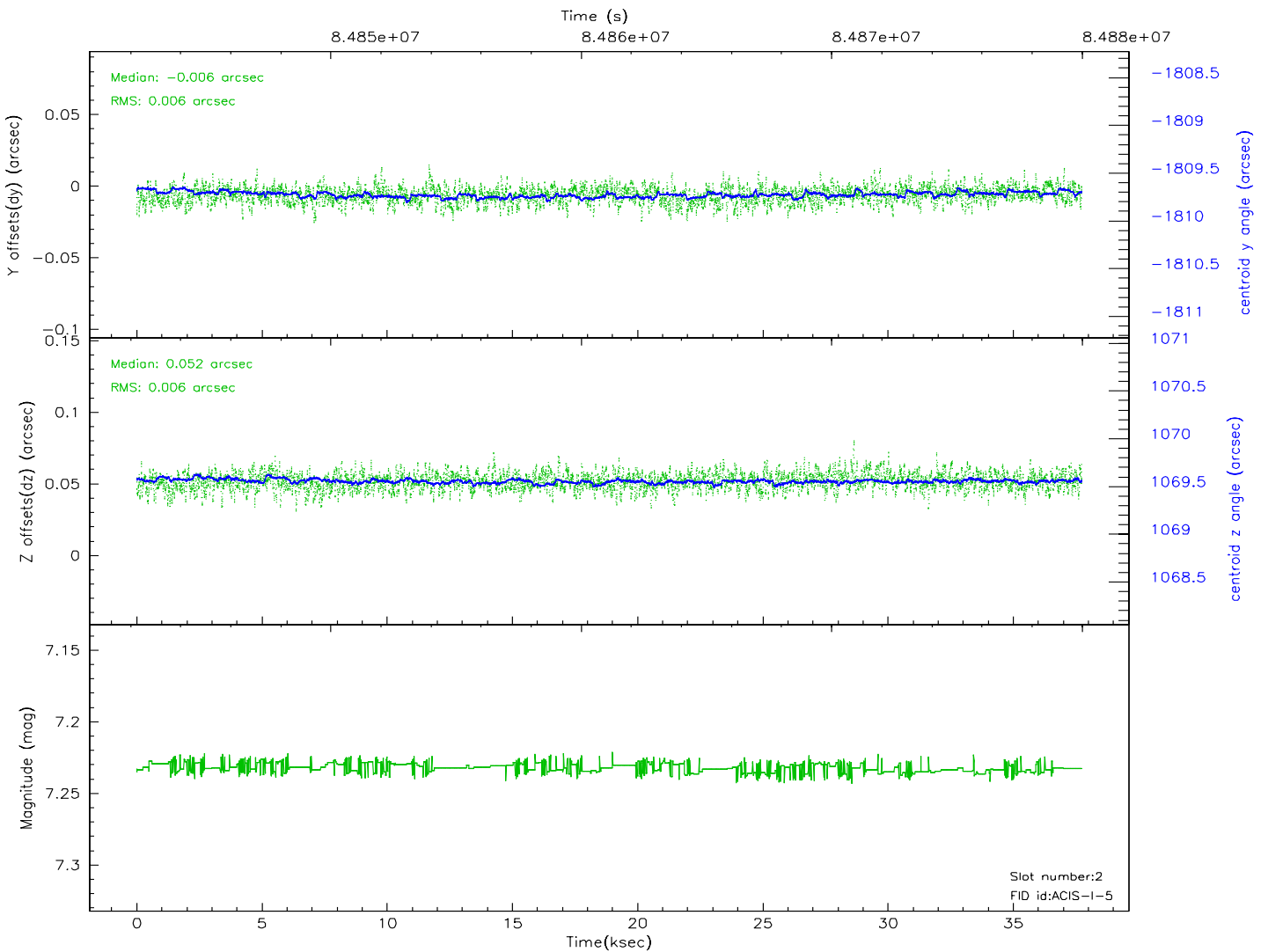
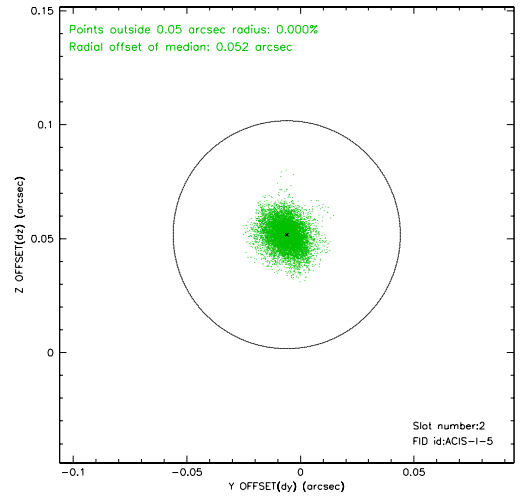
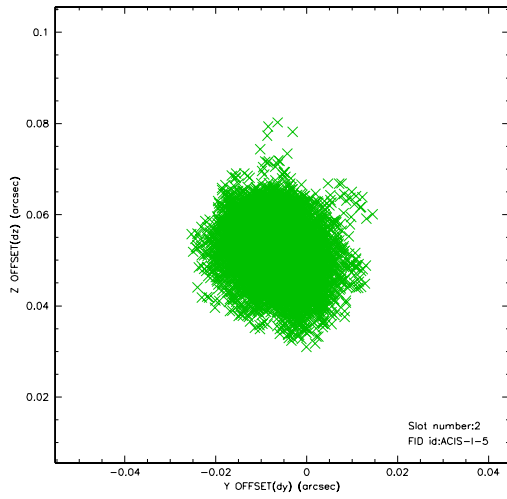
2.5.1 Slot 0



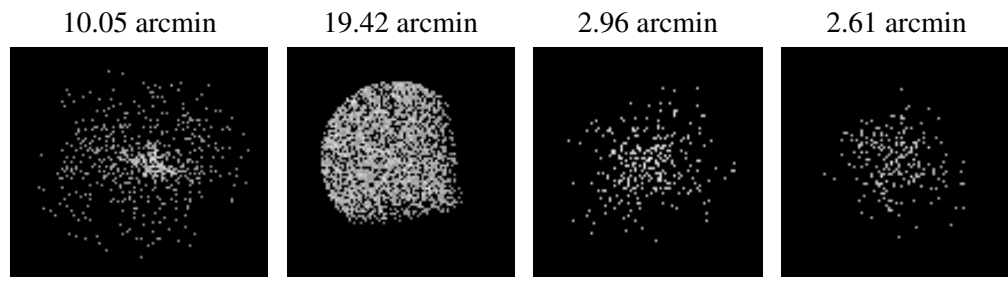
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2007.06.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 36.953 |

A.2 Comments