

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2735 - L2 Version 001
Chandra X-Ray Center

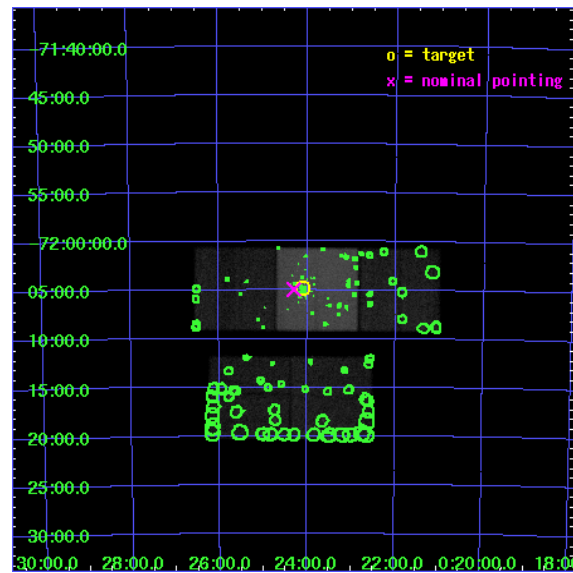
L2 Processing Date : Oct 5 2006

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1 Front

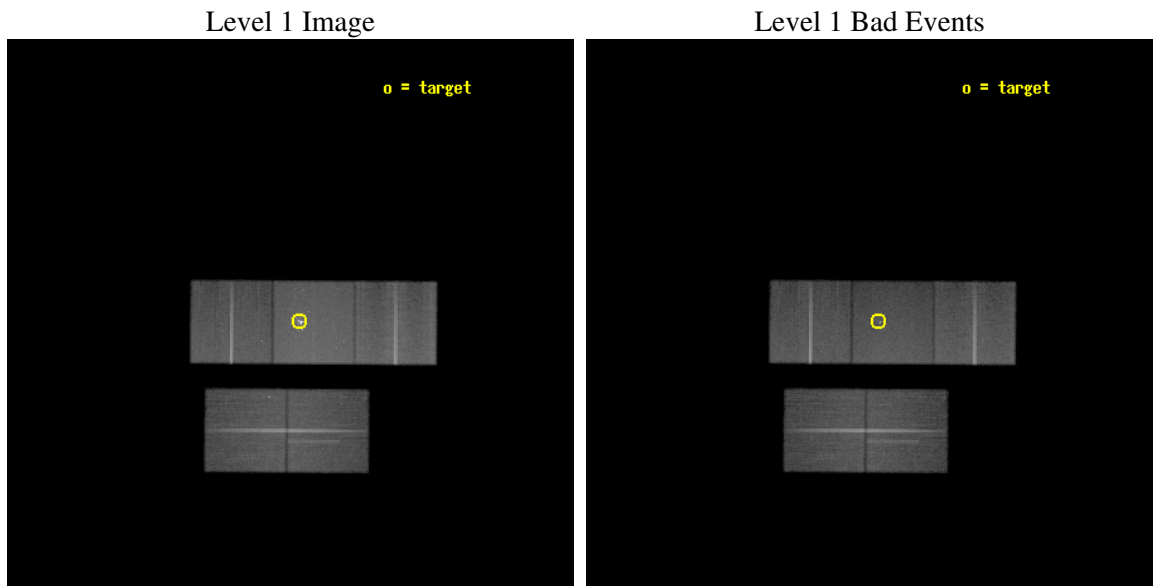
| | |
|----------|----------------------------------------------------|
| seq_num | 400215 |
| obs_id | 2735 |
| title | COMPLETE COMPACT OBJECT AND BINARY SURVEY OF 47TUC |
| observer | Prof. Jonathan Grindlay |
| object | 47 TUCANAE |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 6.024167 |
| dec_targ | -72.080889 |
| ra_nom | 6.0752286996765 |
| dec_nom | -72.082508225653 |
| roll_nom | 0.39232389638927 |
| revision | 2 |
| ontime | 66101.258902639 |
| livetime | 65237.597292037 |
| ontime2 | 66104.399872899 |
| ontime3 | 66104.399872899 |
| ontime6 | 66101.258902699 |
| ontime7 | 66101.258902639 |
| ontime8 | 66098.117992252 |
| l2events | 425210 |



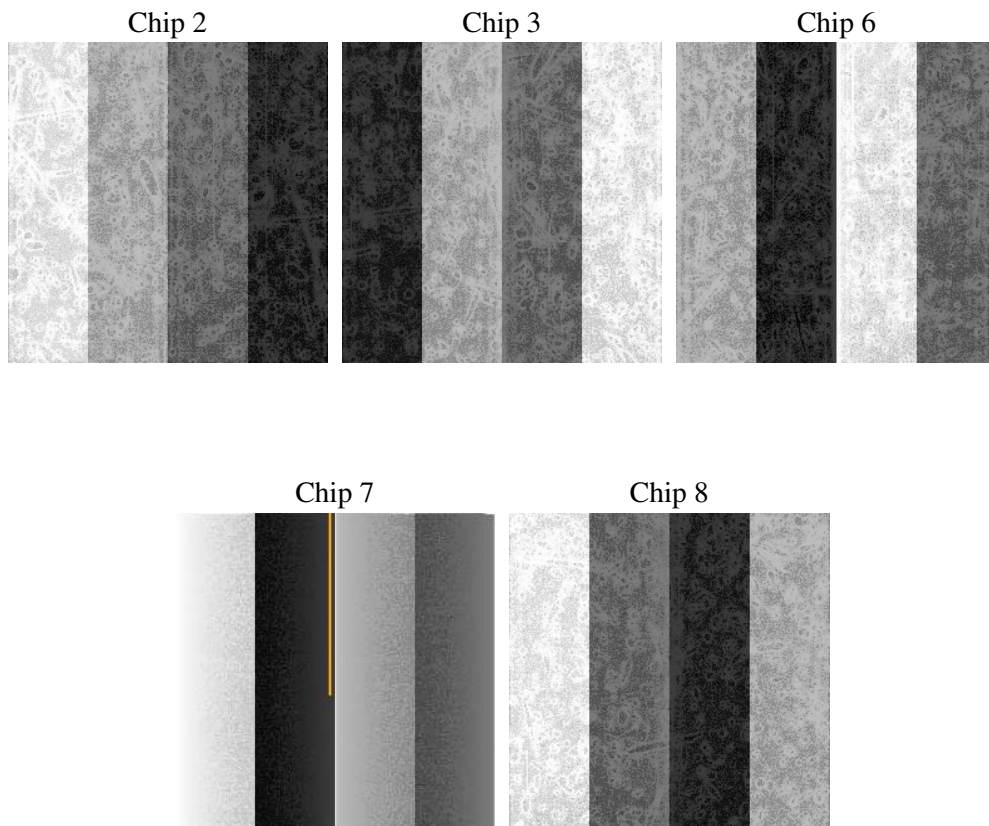
2 OBI

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 | 2006-10-05T17:49:42 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 66000.000000 |
| ontime | 66105.534287274 |
| ontime2 | 66108.675257534 |
| ontime3 | 66108.675257534 |
| ontime6 | 66105.534287333 |
| ontime7 | 66105.534287274 |
| ontime8 | 66102.393376887 |
| l1events | 2390288 |

2.1.4 Events

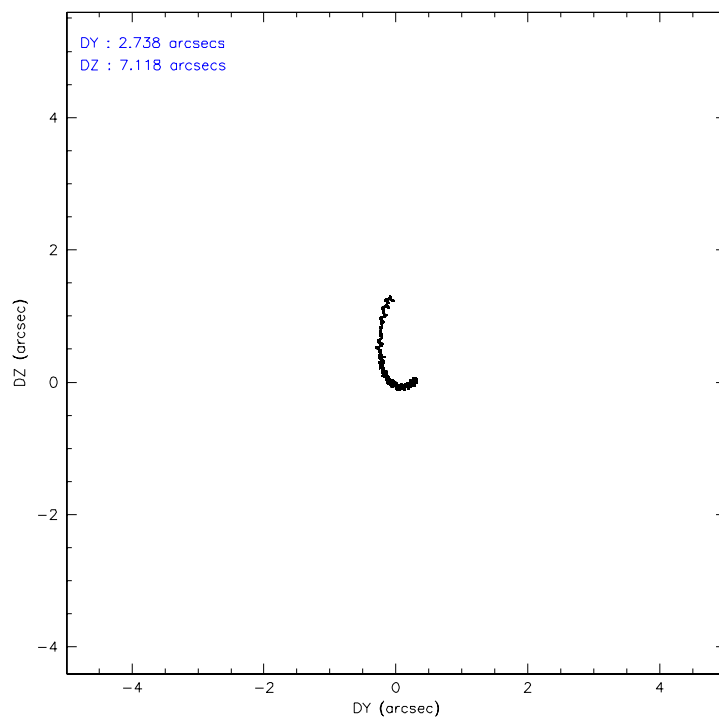
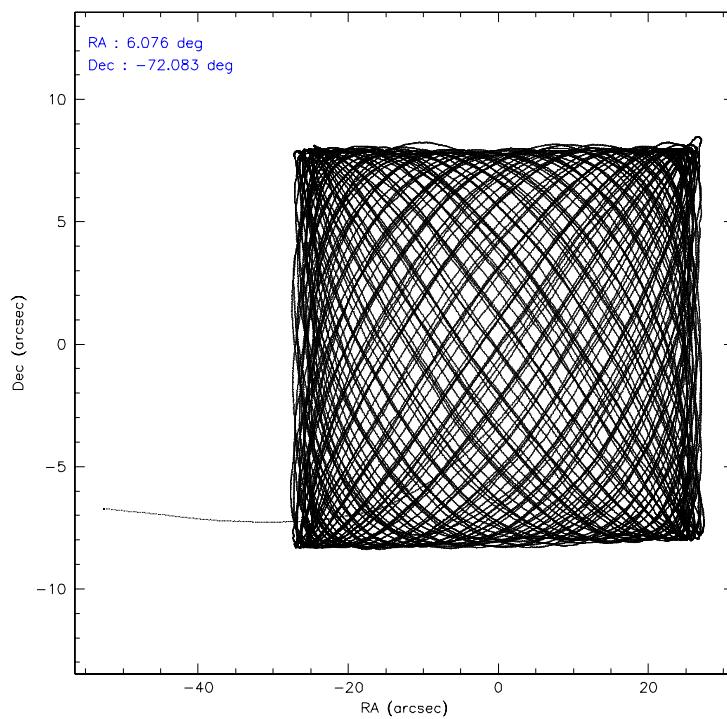
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 414541 | 416867 | 431025 | 596273 | 531582 |
| rejected events | 364717 | 367391 | 380185 | 347283 | 421800 |
| rejected % | 87% | 88% | 88% | 58% | 79% |

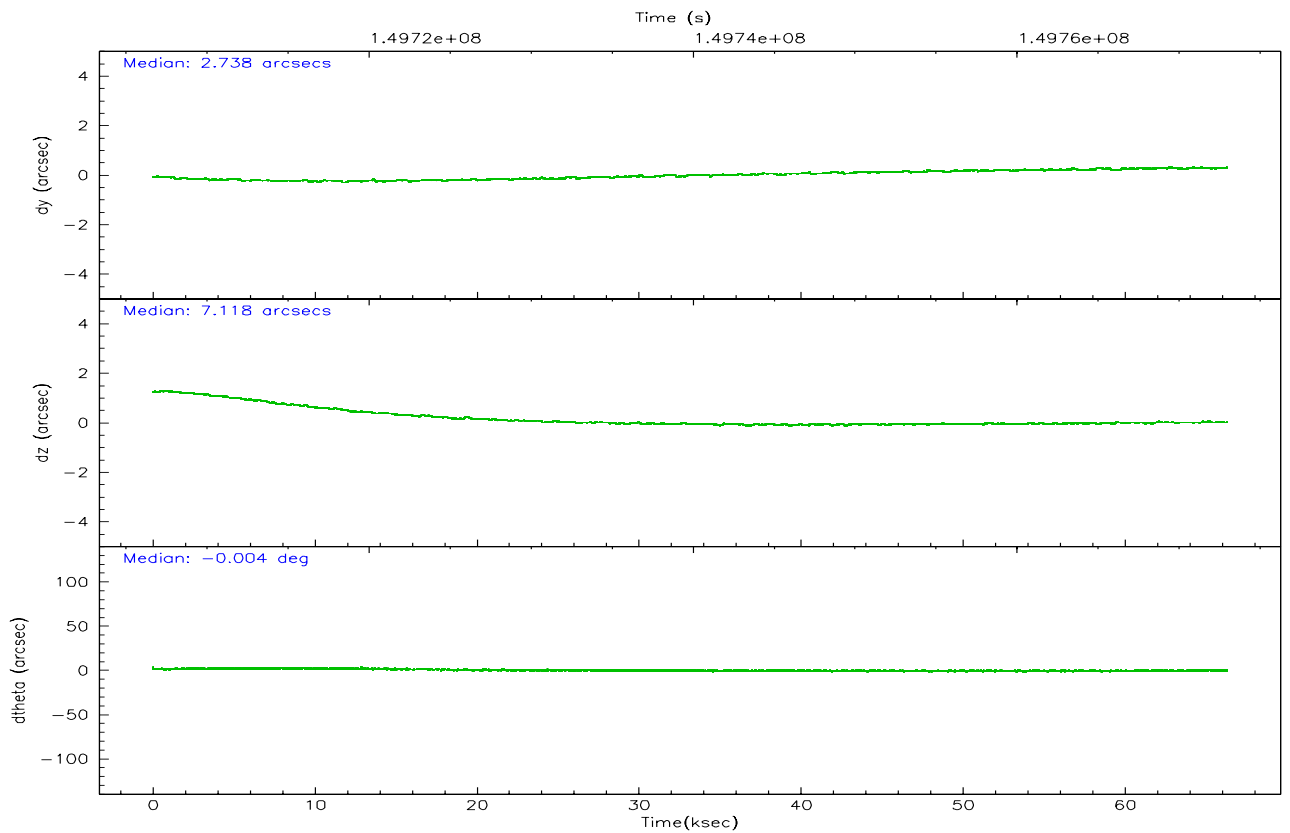
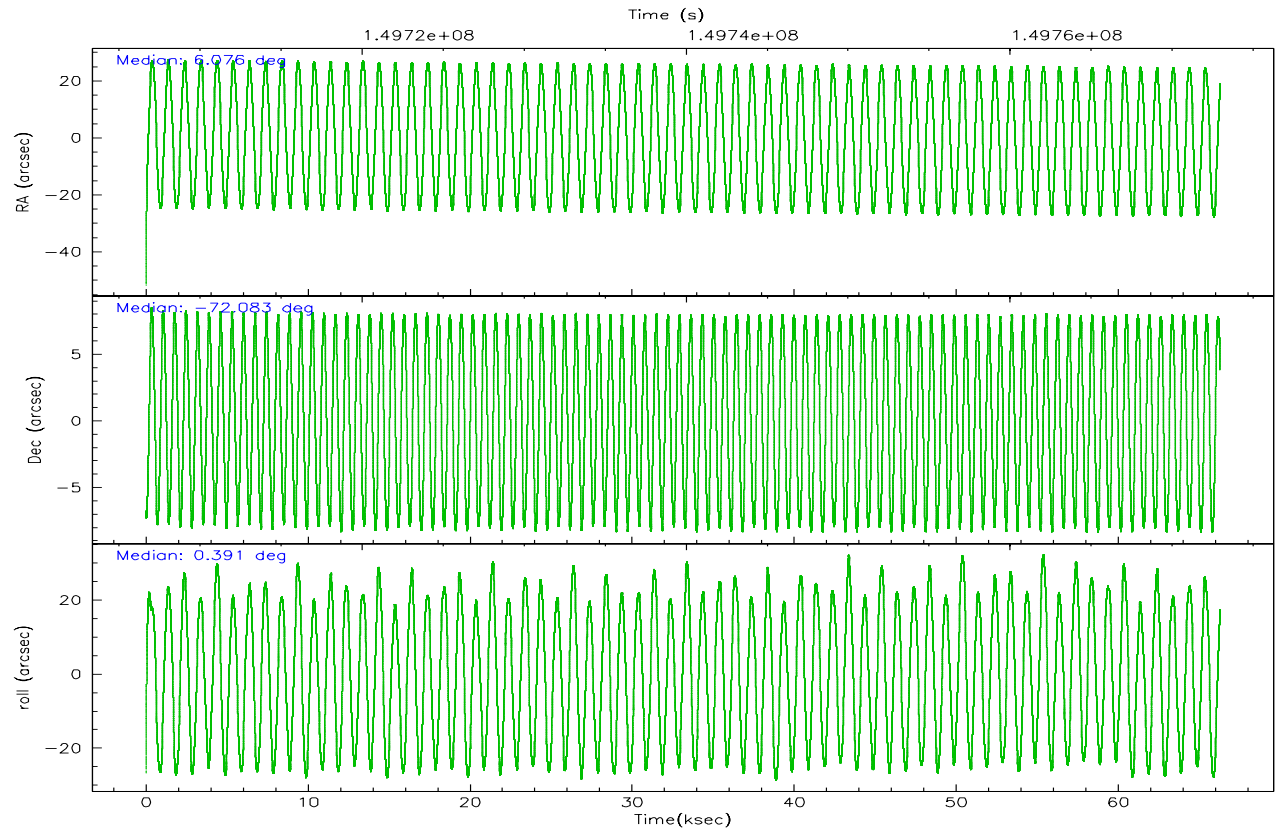
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|
| grade 0 events | 23025 | 22190 | 20745 | 26235 | 35384 |
| | 5% | 5% | 4% | 4% | 6% |
| grade 1 events | 240 | 237 | 205 | 551 | 314 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 9637 | 9210 | 10241 | 61264 | 23349 |
| | 2% | 2% | 2% | 10% | 4% |
| grade 3 events | 4766 | 4858 | 4970 | 15364 | 11668 |
| | 1% | 1% | 1% | 2% | 2% |
| grade 4 events | 4581 | 4837 | 4903 | 14929 | 11128 |
| | 1% | 1% | 1% | 2% | 2% |
| grade 5 events | 15398 | 18222 | 19230 | 39048 | 24438 |
| | 3% | 4% | 4% | 6% | 4% |
| grade 6 events | 7819 | 8382 | 9984 | 131205 | 28256 |
| | 1% | 2% | 2% | 22% | 5% |
| grade 7 events | 349075 | 348931 | 360747 | 307677 | 397045 |
| | 84% | 83% | 83% | 51% | 74% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-23678 | ACIS-23678 | 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 | 5.999398 | 6.075228699676518 | Subarray requested | NONE | NONE |
| Pointing Dec | -72.096587 | -72.08250822565326 | Alternating exposures requested | N | N |
| Pointing Roll | 0.163534 | 0.3923238963892706 | Primary exposure time | 0.000000 | 3.1 |
| Window start time | 149701144.184000 | 149701144.184000 | | | |
| Window stop time | 149857624.184000 | 149857624.184000 | | | |
| 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 | 149706968.184000 | 149705940.23188 | | | |
| Observation start date | 2002-09-29T17:15:04 | 2002-09-29T16:59:00 | | | |
| Observation end time | 149772968.184000 | 149773102.33466 | | | |
| Observation end date | 2002-09-30T11:35:04 | 2002-09-30T11:38:22 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



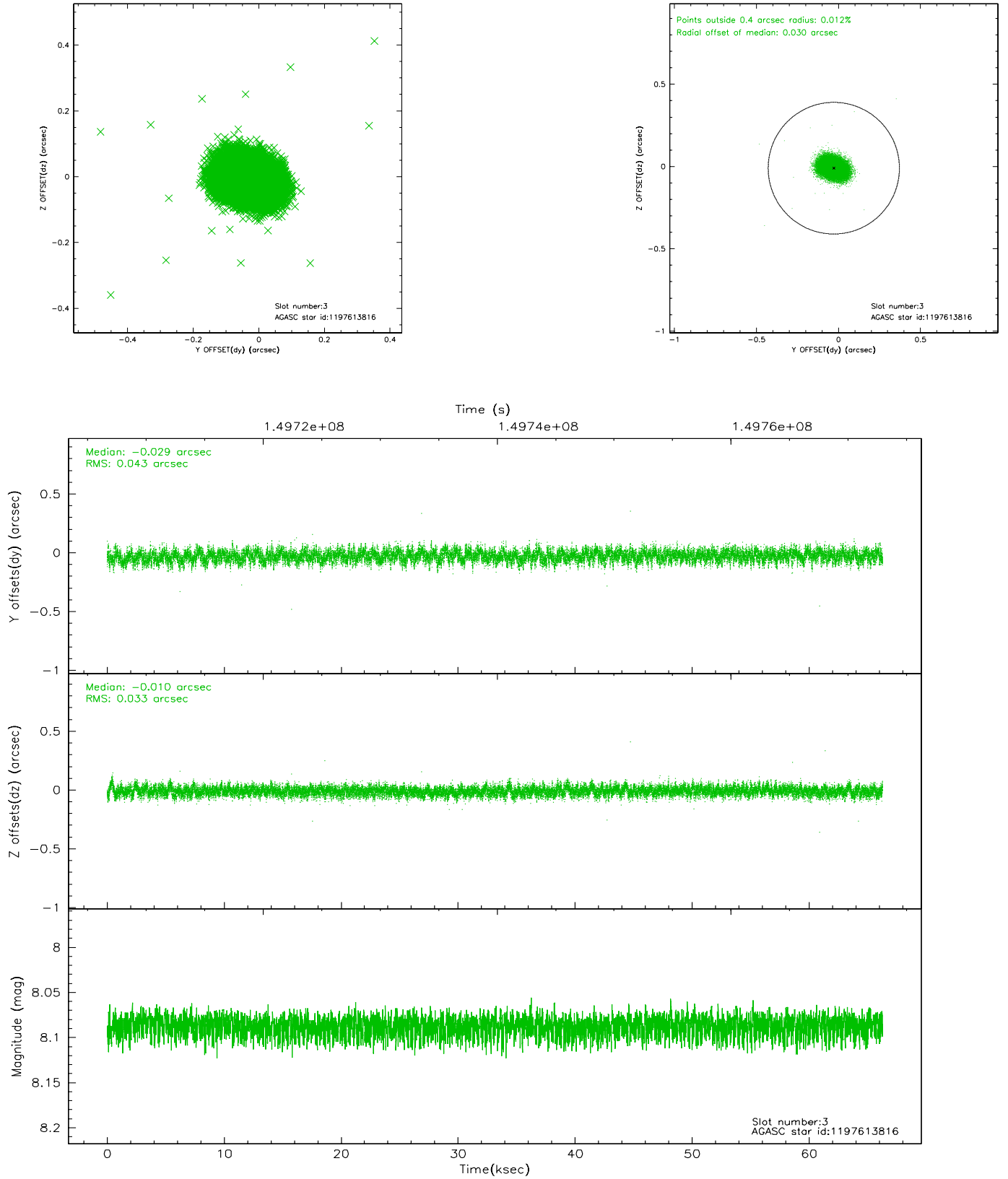


Slot Statistics

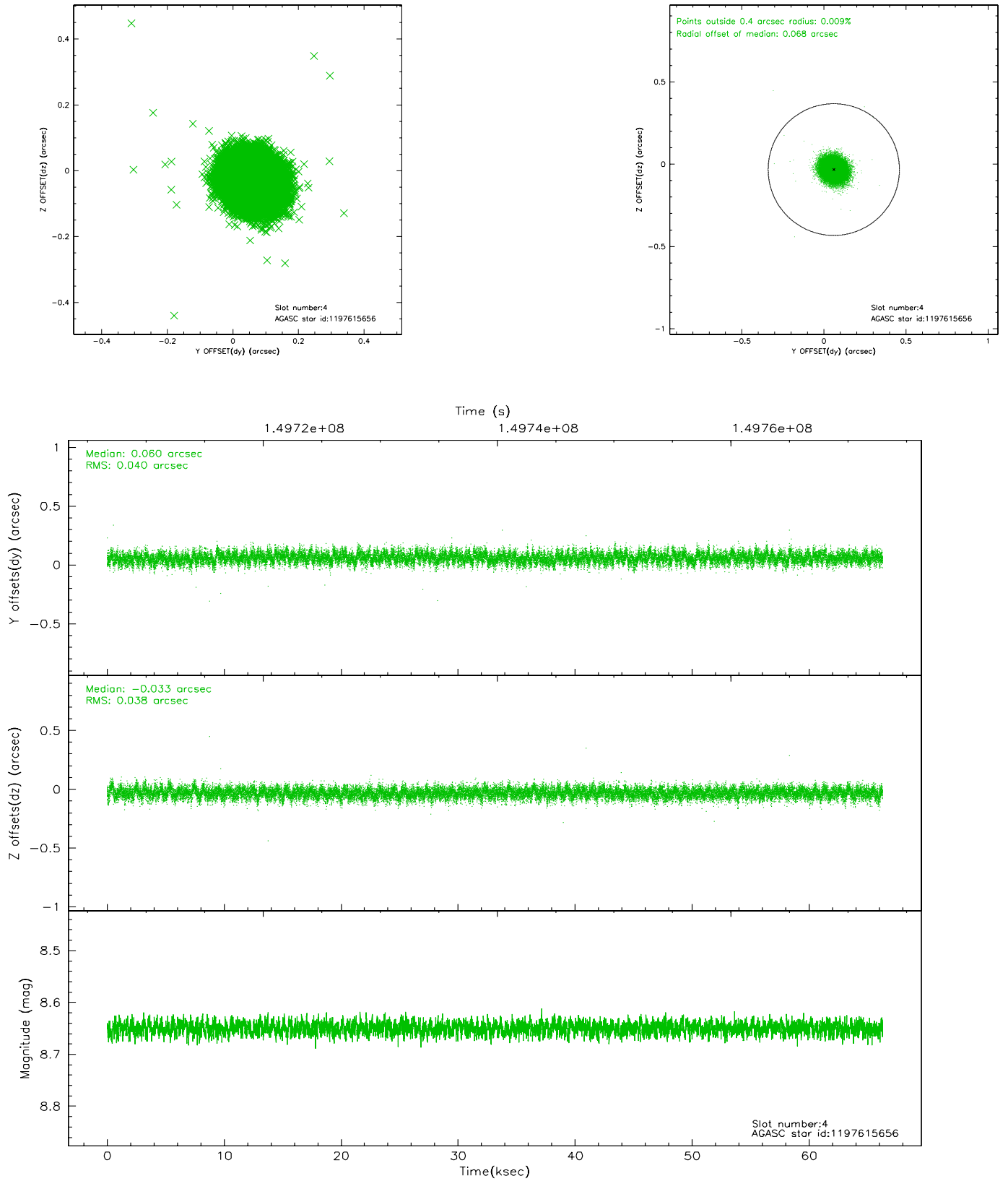
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|-------|-------|--------|--------|-------|-------|----------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 16170 | -0.006 | 0.028 | 0.008 | 0.013 | 0.000000 | 0.000000 | -755.38 | -1728.45 |
| 1 | FID | ACIS-S-4 | 7.20 | 16168 | -0.057 | -0.005 | 0.011 | 0.017 | 0.000000 | 0.000000 | 2157.87 | 180.05 |
| 2 | FID | ACIS-S-5 | 7.24 | 16168 | 0.033 | -0.014 | 0.010 | 0.017 | 0.000000 | 0.000000 | -1808.25 | 173.66 |
| 3 | GUIDE | 1197613816 | 8.09 | 32335 | -0.029 | -0.010 | 0.057 | 0.093 | 5.181461 | -71.977993 | -910.41 | 423.69 |
| 4 | GUIDE | 1197615656 | 8.65 | 32328 | 0.060 | -0.033 | 0.058 | 0.095 | 6.909375 | -71.882658 | 1020.15 | 759.89 |
| 5 | GUIDE | 1197999176 | 8.85 | 32327 | -0.106 | -0.072 | 0.071 | 0.114 | 6.259352 | -72.617840 | 273.57 | -1877.66 |
| 6 | GUIDE | 1197607928 | 9.64 | 32311 | 0.137 | 0.104 | 0.099 | 0.159 | 7.837743 | -72.165759 | 2025.26 | -285.25 |
| 7 | GUIDE | 1197619752 | 10.01 | 32312 | -0.063 | 0.012 | 0.117 | 0.194 | 4.510721 | -71.856694 | -1666.79 | 847.94 |

2.4 Star Slots

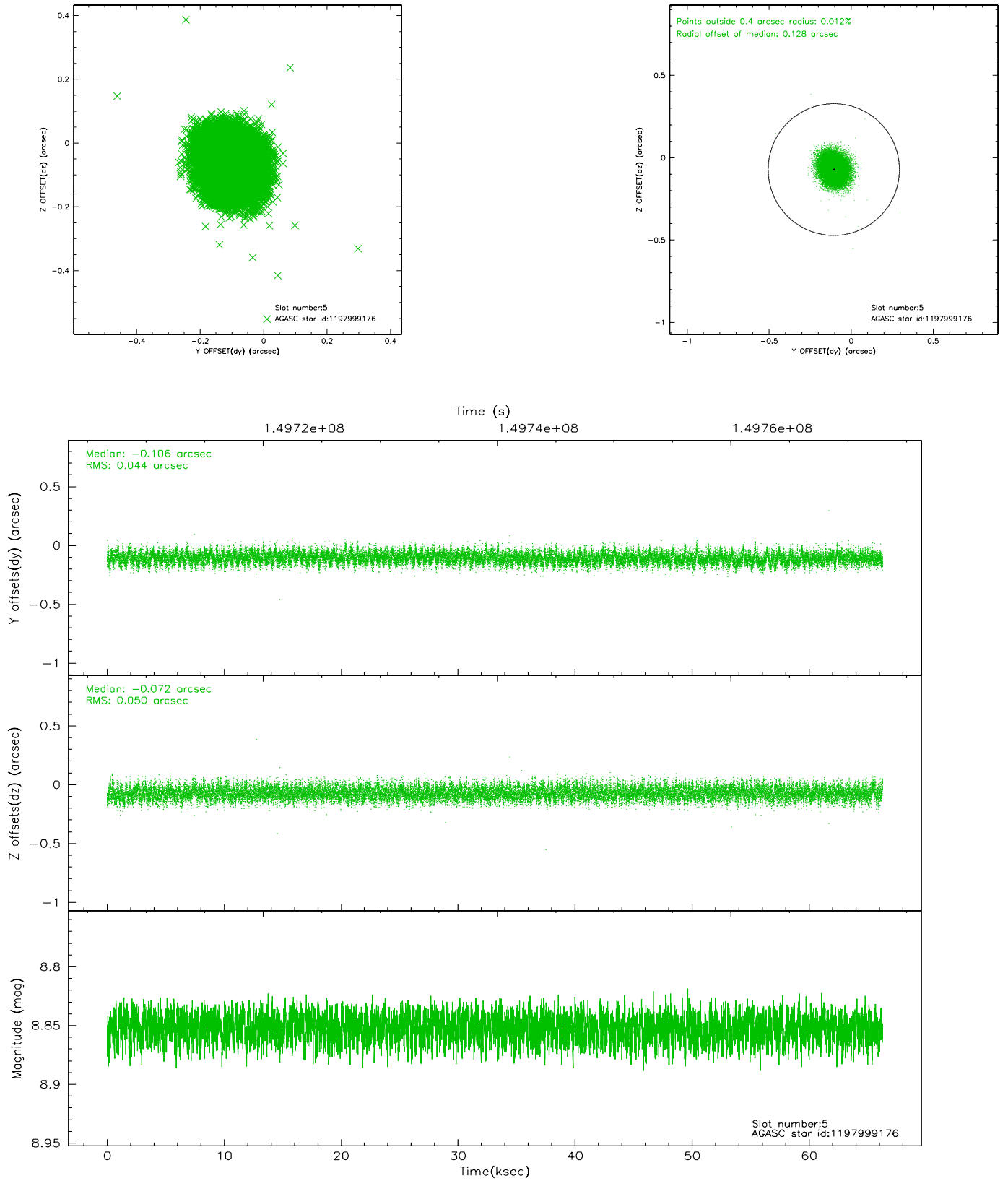
2.4.1 Slot 3



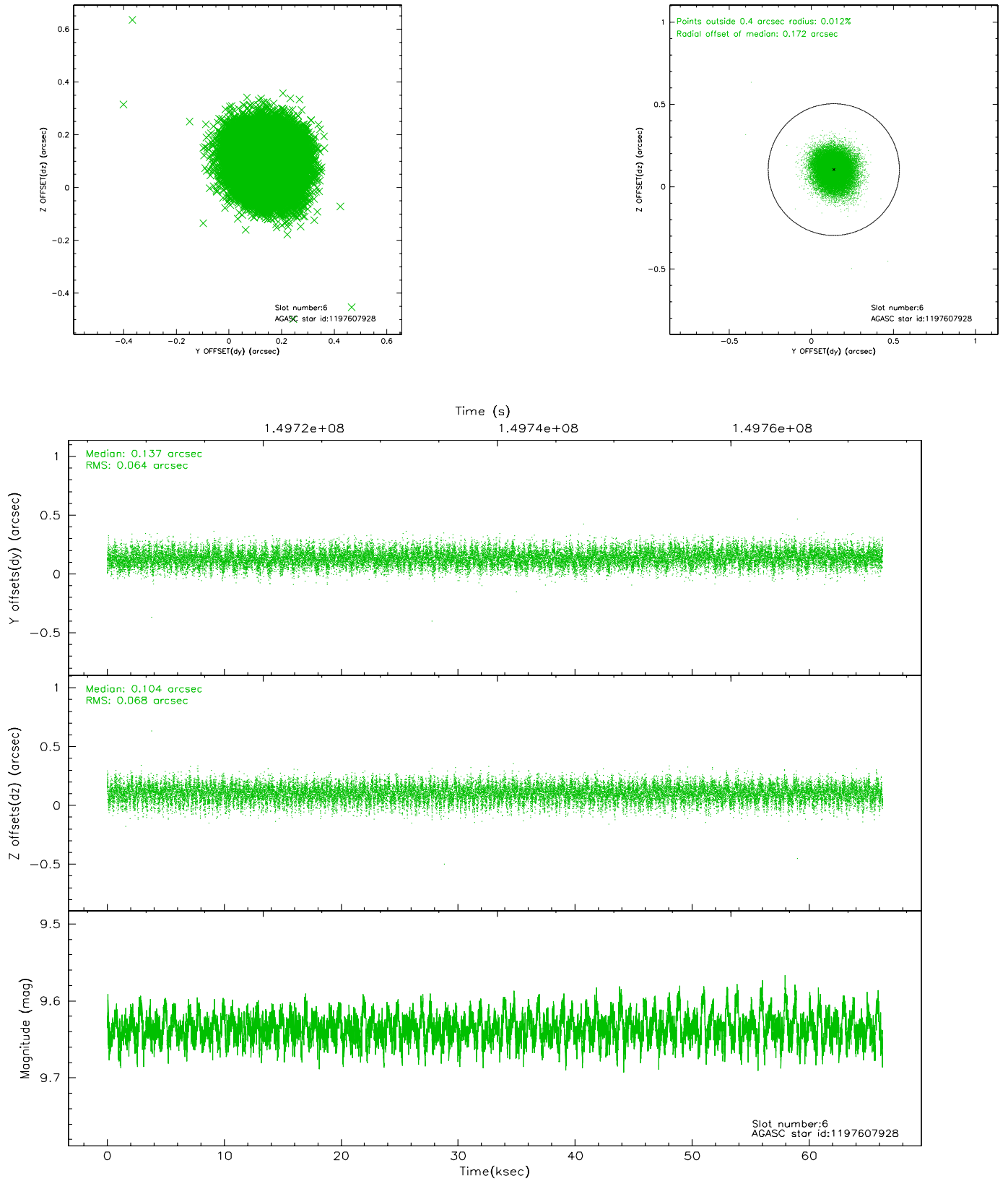
2.4.2 Slot 4



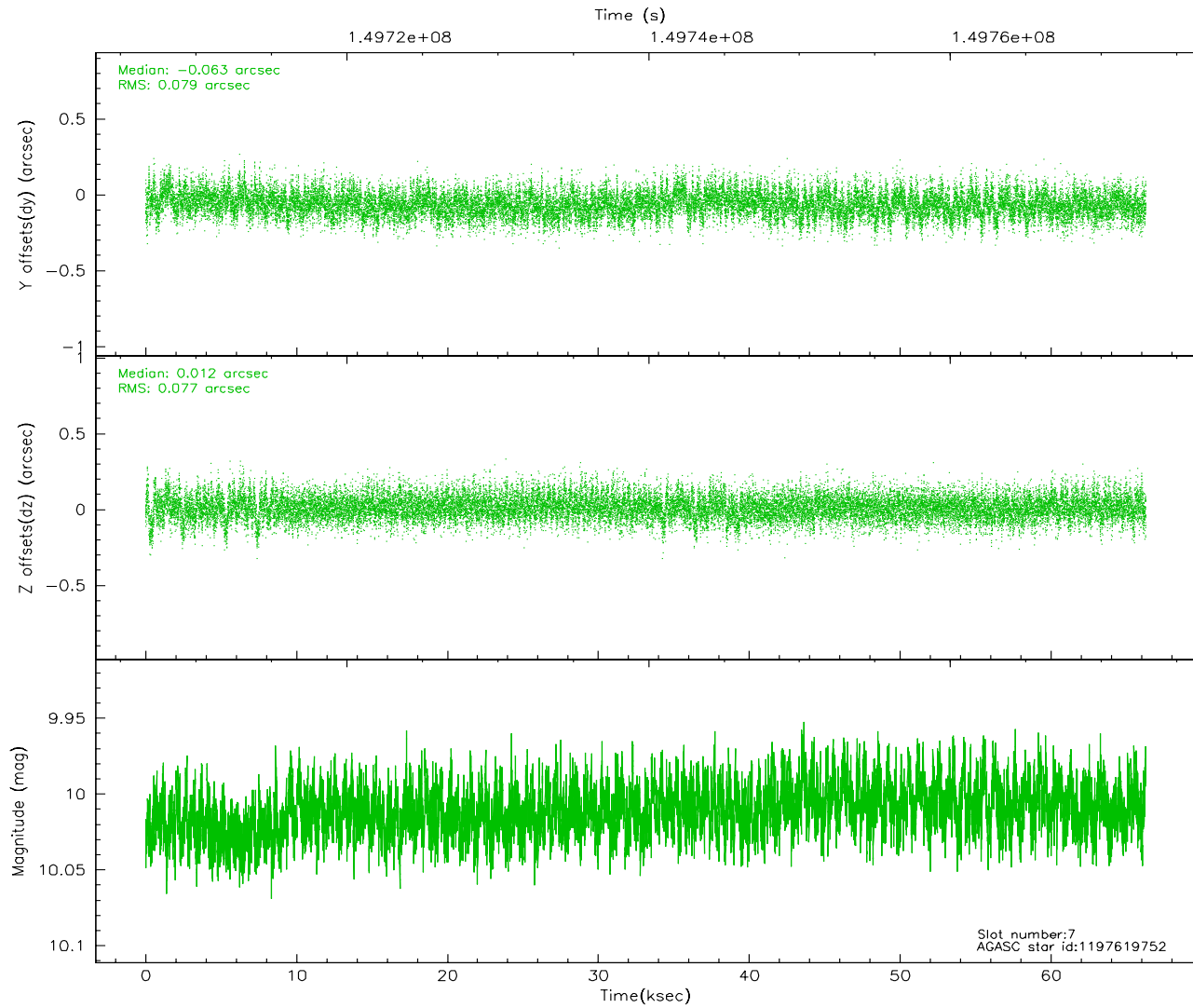
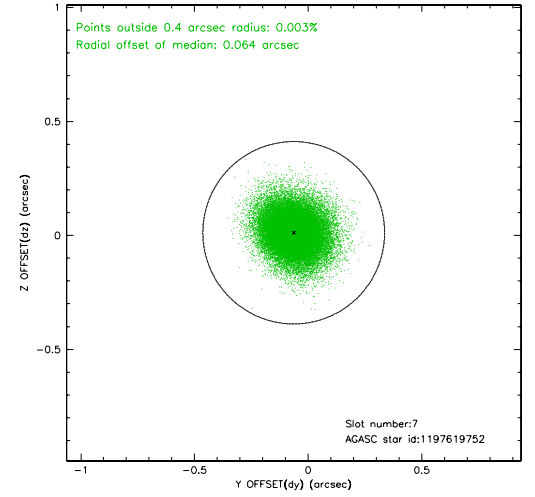
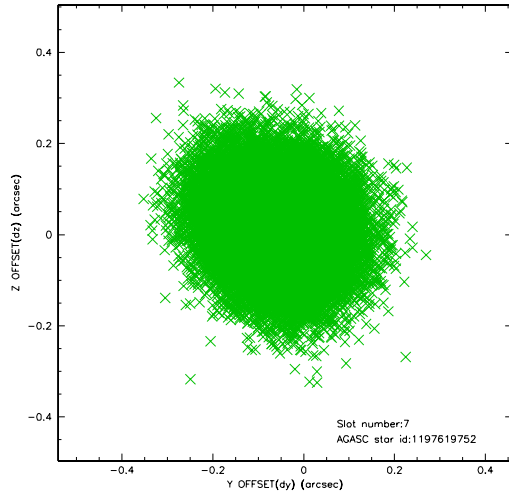
2.4.3 Slot 5



2.4.4 Slot 6

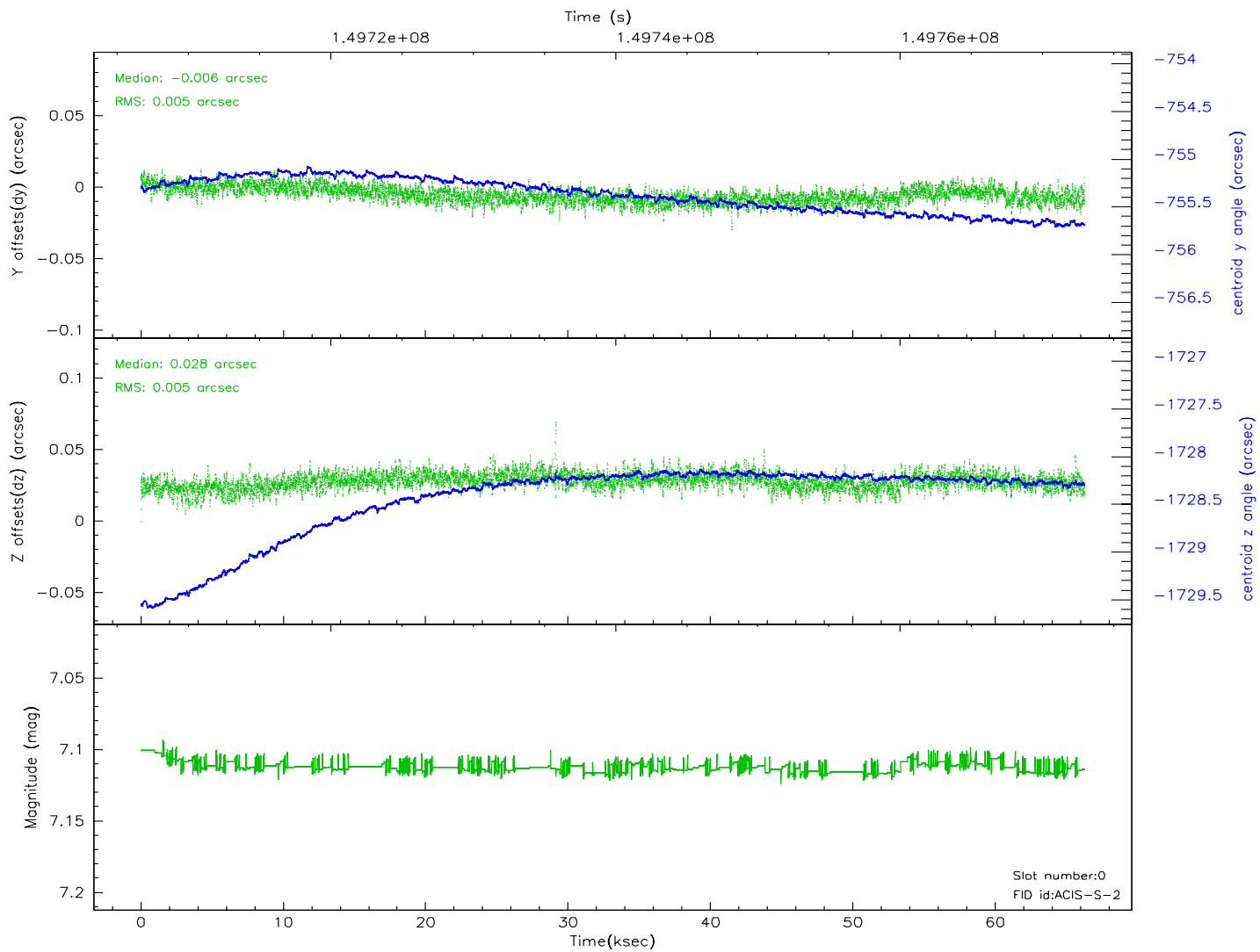
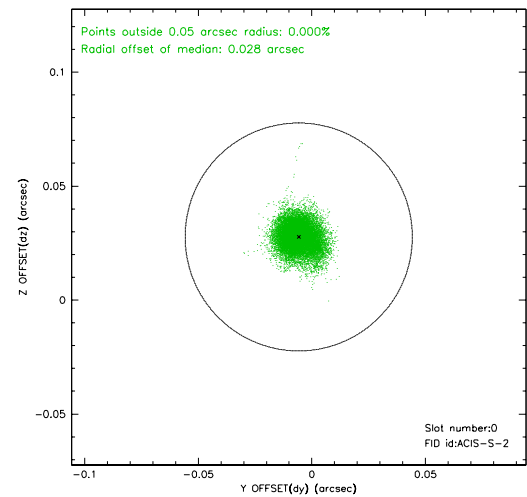
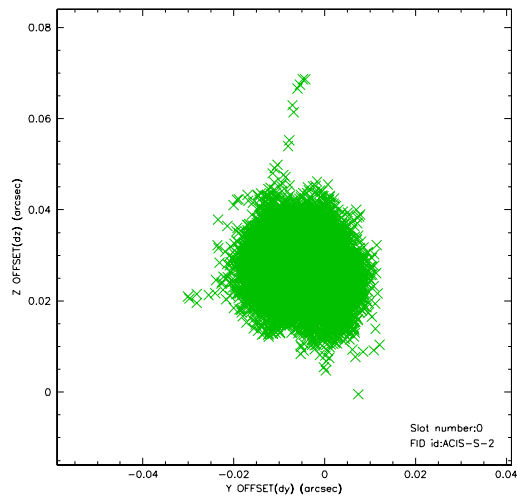


2.4.5 Slot 7

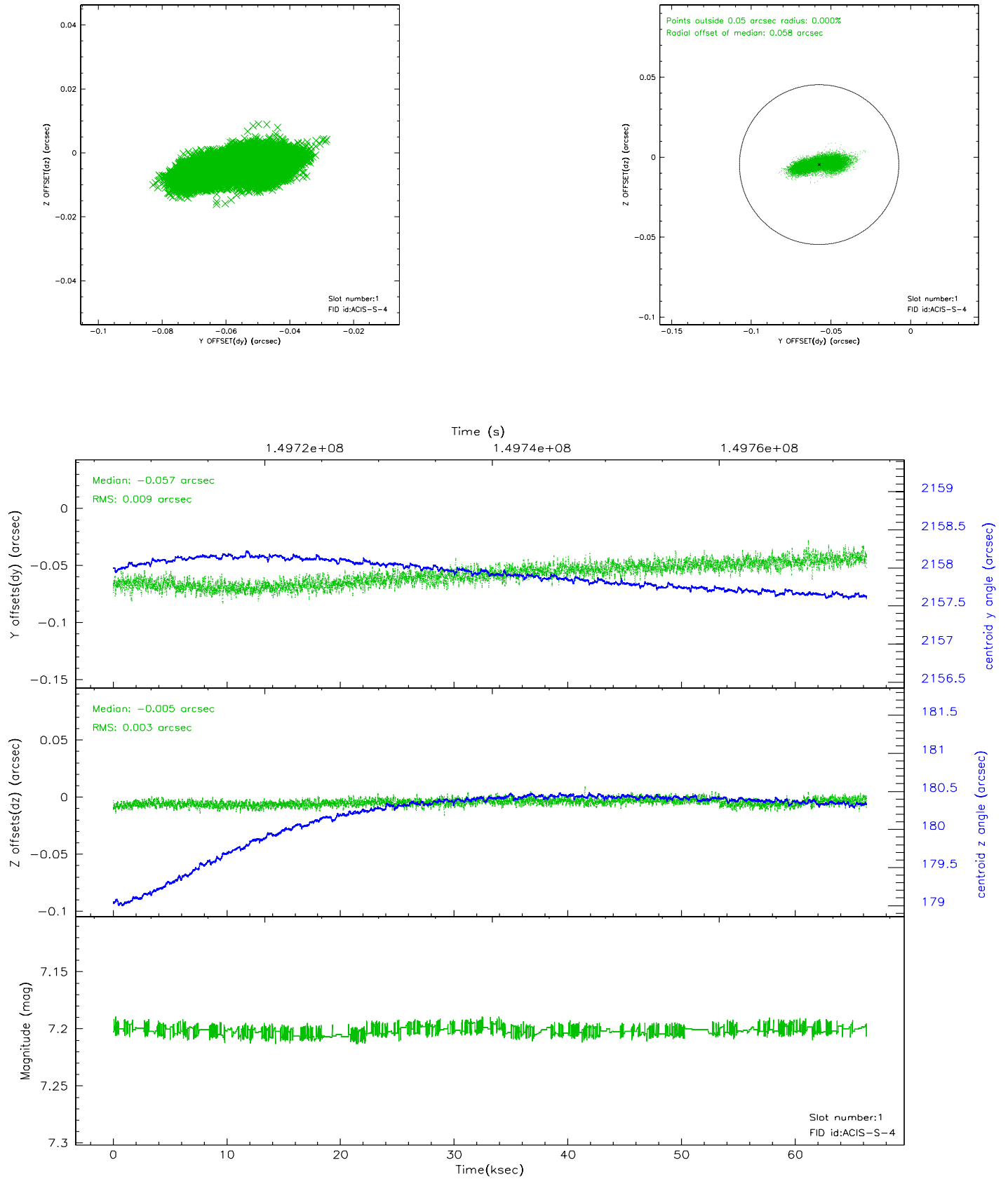


2.5 FID Slots

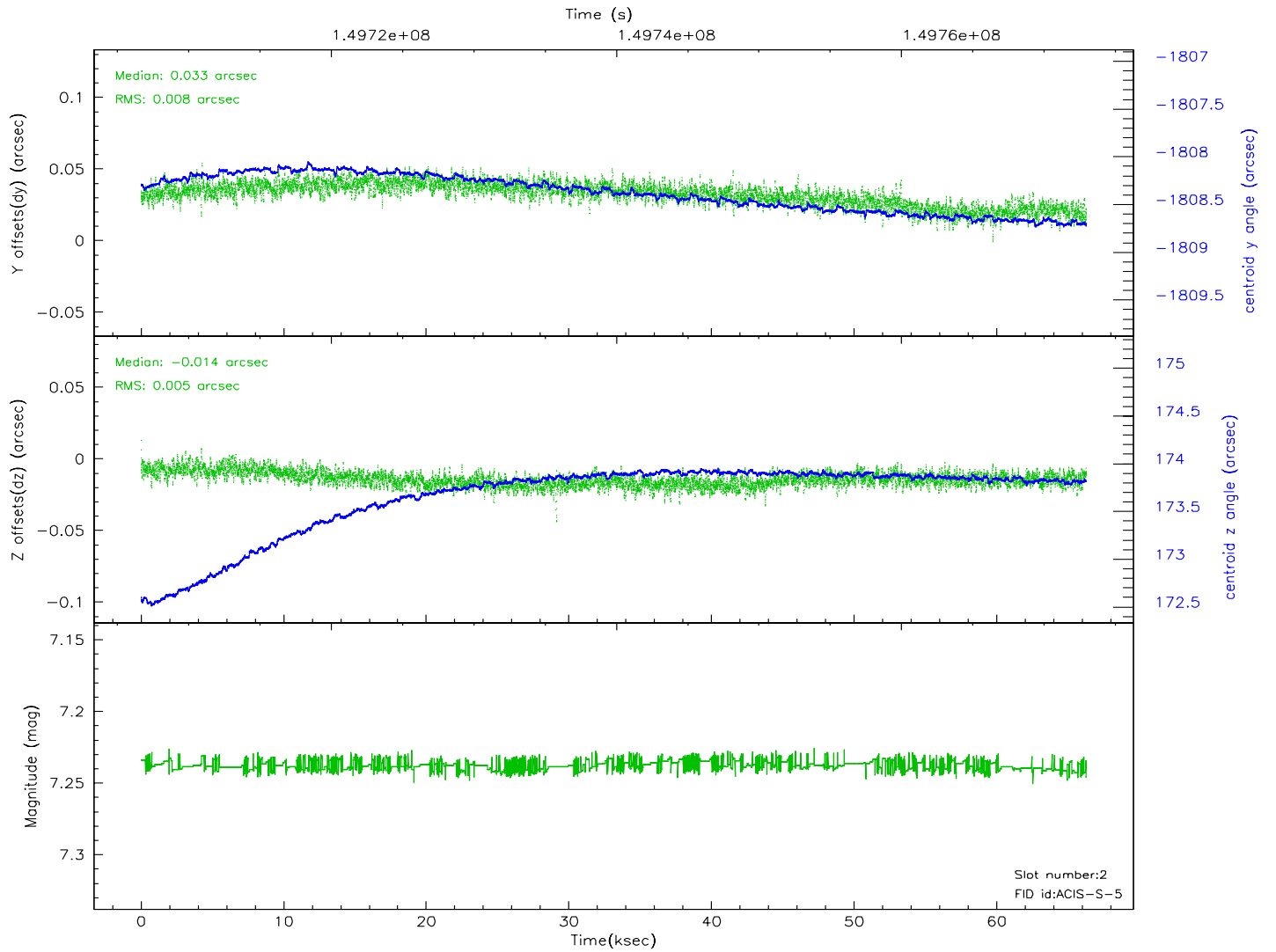
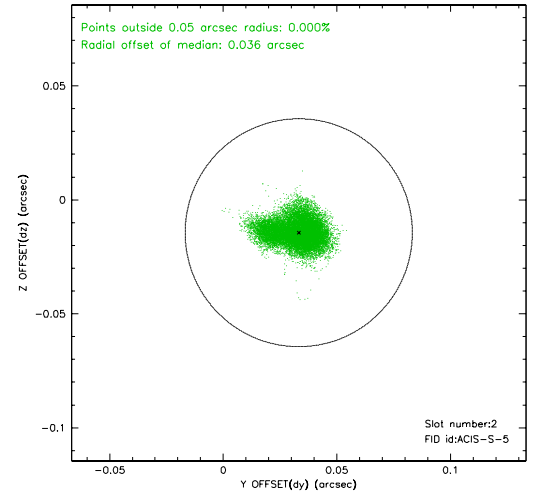
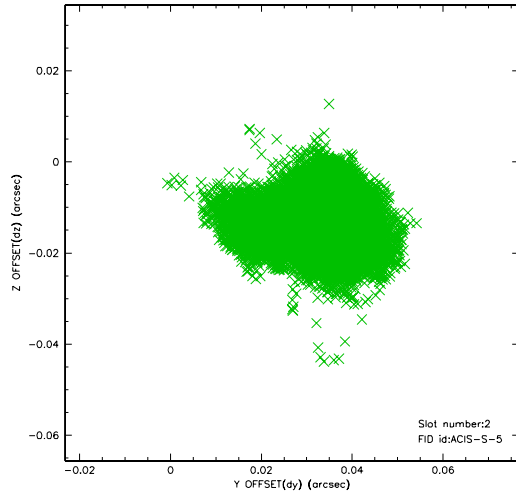
2.5.1 Slot 0



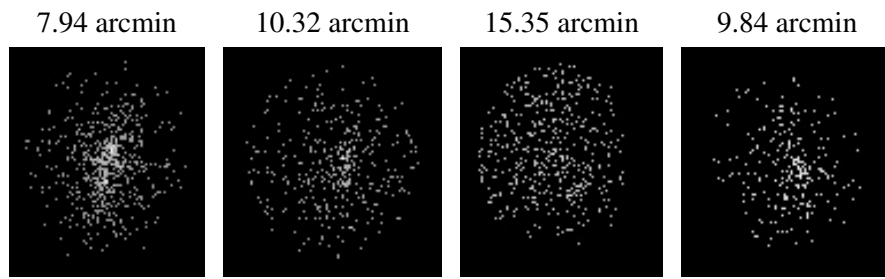
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.10.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 66.101 |

A.2 Comments

Window constraint met.