

V&V Reference Report

L2 ASCDS Version : 7.6.11.4

Observation 9233 - L2 Version 1
Chandra X-Ray Center

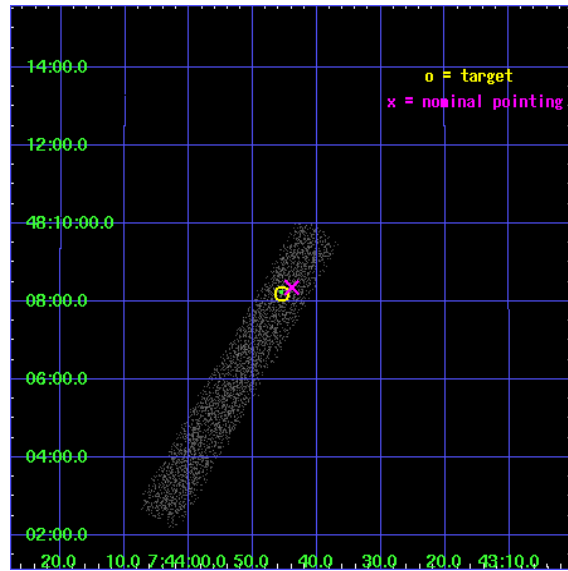
L2 Processing Date : Dec 27 2007

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1 Front

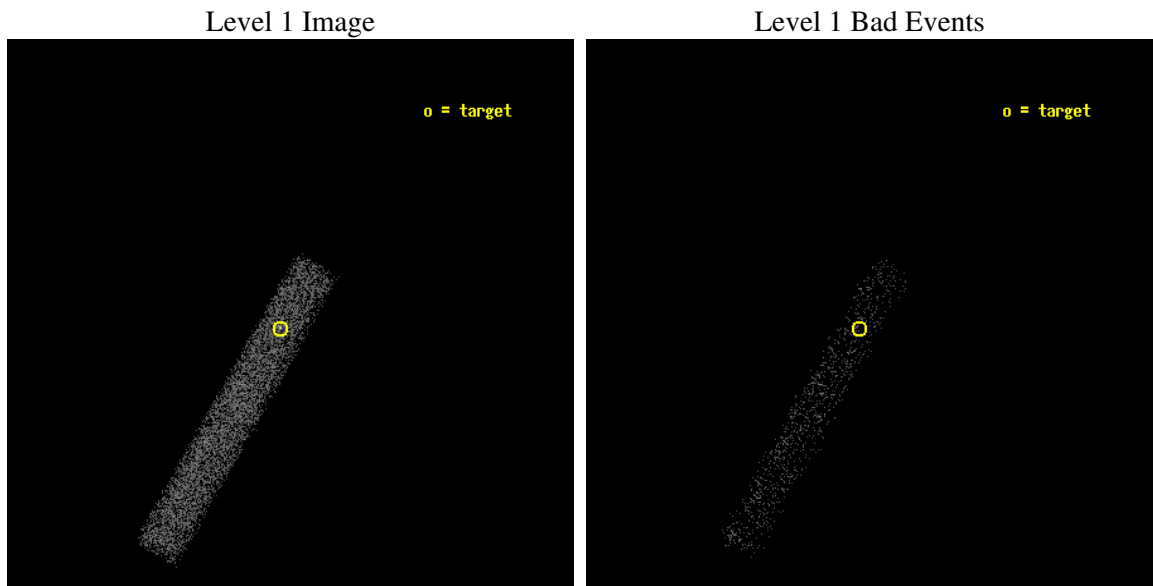
| | |
|----------|---|
| seq_num | 701674 |
| obs_id | 9233 |
| title | A Chandra survey of IMBH AGNs with low Eddington ratios |
| observer | Dr. Weimin Yuan |
| object | 074345.47+480813.5 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 115.939583 |
| dec_targ | 48.137 |
| ra_nom | 115.93307993107 |
| dec_nom | 48.139352937495 |
| roll_nom | 119.59282922118 |
| revision | 1 |
| ontime | 5155.1996927261 |
| livetime | 4675.4940075514 |
| ontime7 | 5155.1996927261 |
| l2events | 4218 |



2 OBI

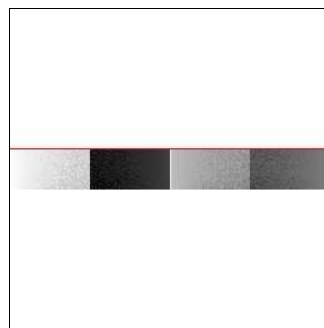
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.11.4 |
| caldbver | 3.4.2 |
| date | 2007-12-27T19:41:09 |
| revision | 1 |

| | |
|----------------|-----------------|
| sched_exp_time | 5000.000000 |
| ontime | 5155.1996927261 |
| ontime7 | 5155.1996927261 |
| l1events | 10564 |

2.1.4 Events

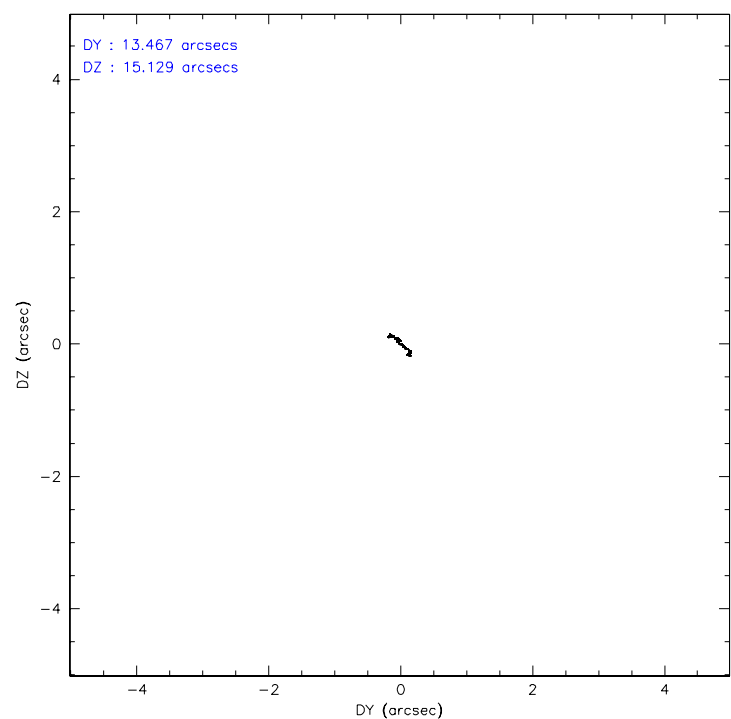
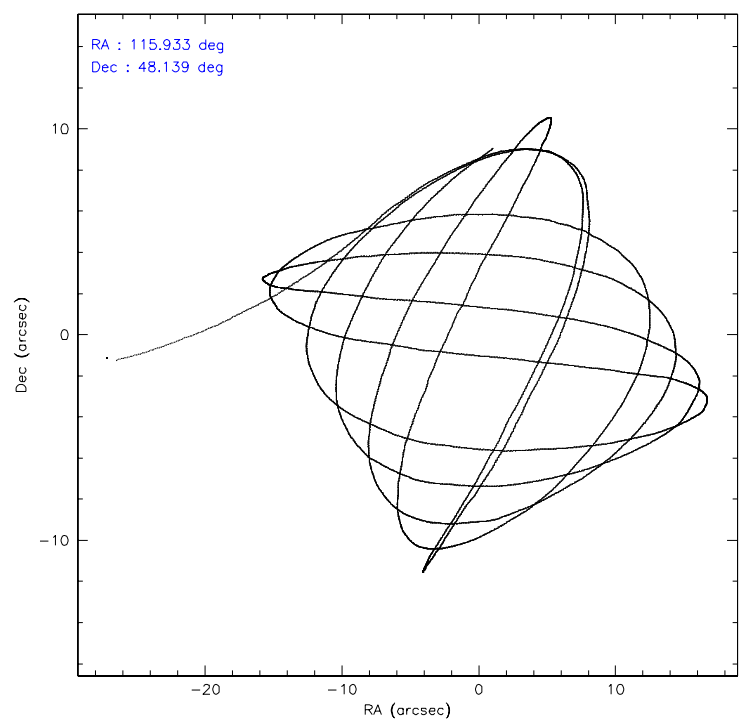
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 10564 |
| rejected events | 6166 |
| rejected % | 58% |

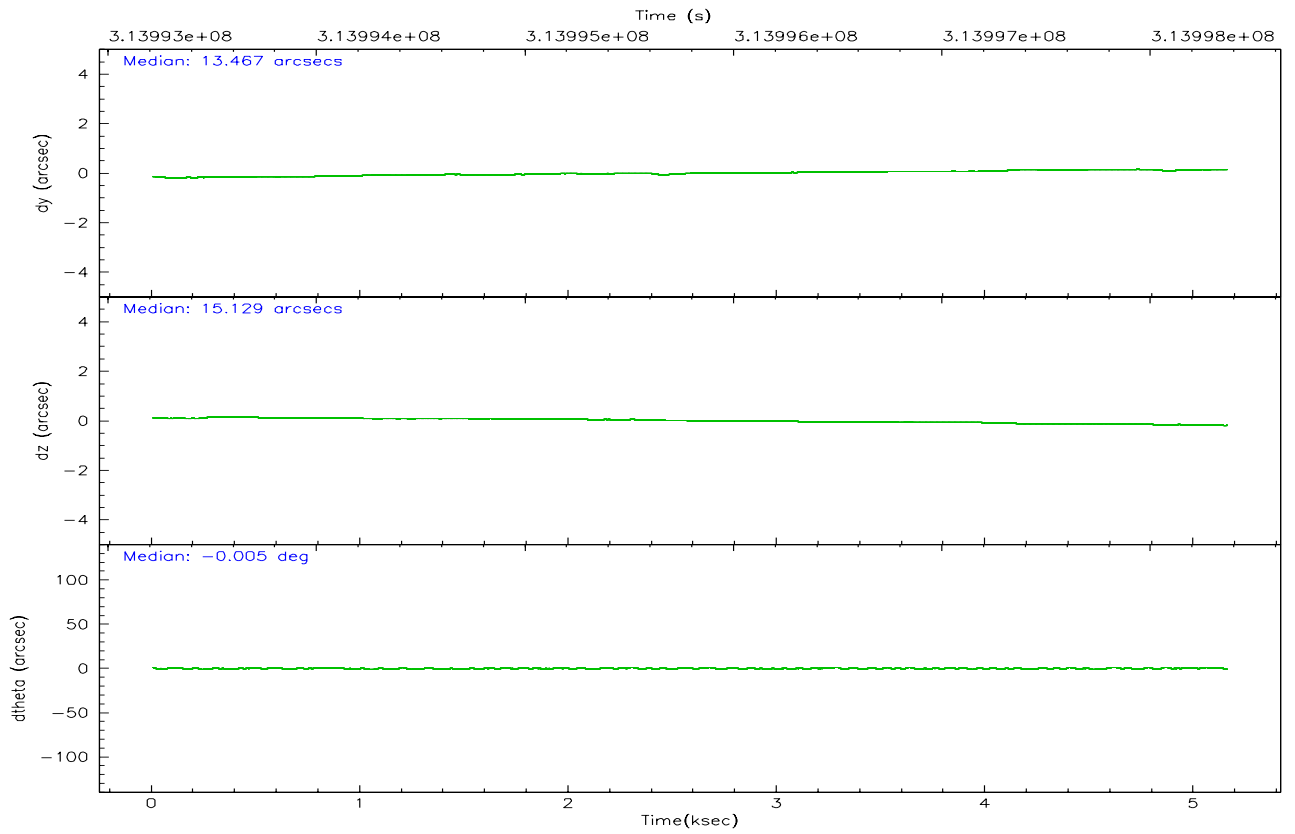
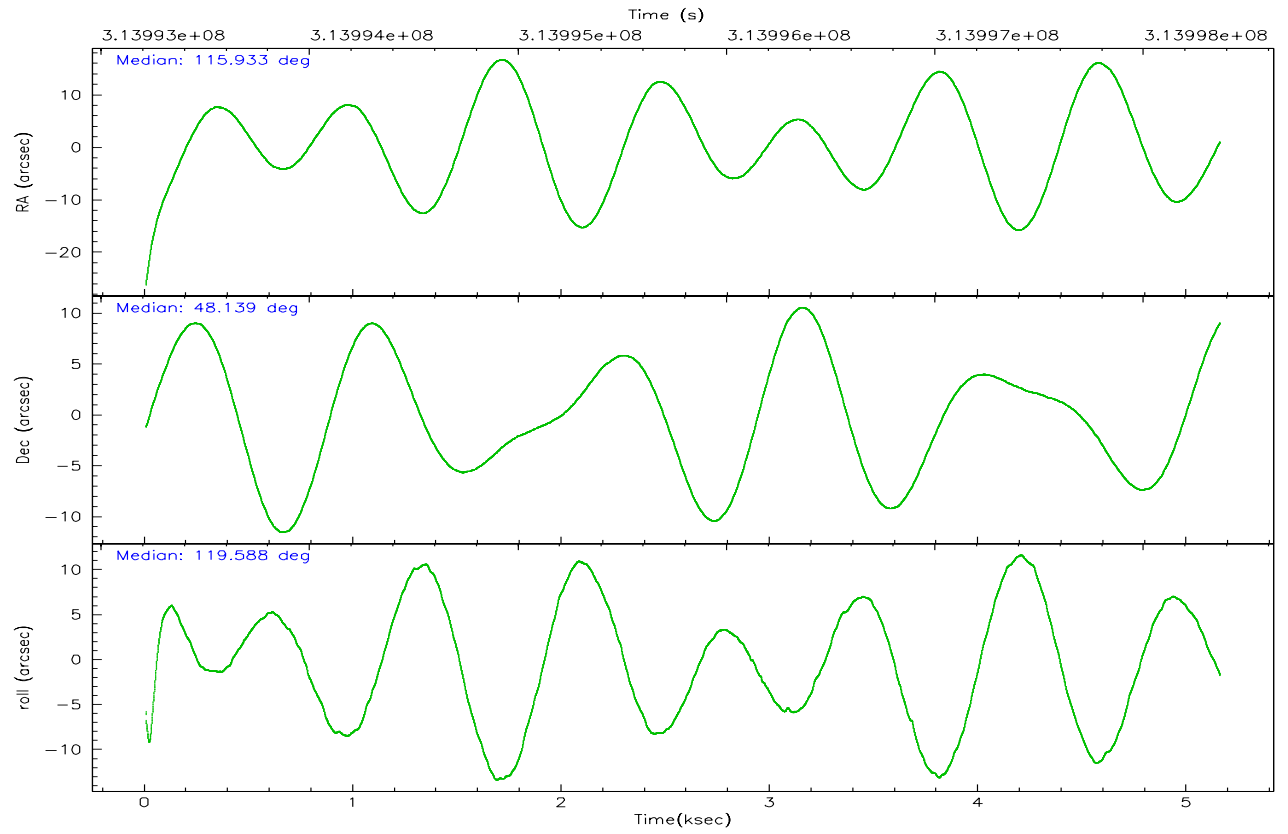
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 509 |
| | 4% |
| grade 1 events | 10 |
| | 0% |
| grade 2 events | 966 |
| | 9% |
| grade 3 events | 628 |
| | 5% |
| grade 4 events | 636 |
| | 6% |
| grade 5 events | 954 |
| | 9% |
| grade 6 events | 2277 |
| | 21% |
| grade 7 events | 4584 |
| | 43% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-7 | ACIS-7 | 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 | 115.968814 | 115.9330799310714 | Subarray requested | CUSTOM | 1/8 |
| Pointing Dec | 48.125815 | 48.13935293749484 | Subarray start row | 449 | 449 |
| Pointing Roll | 119.409648 | 119.5928292211785 | Subarray row count | 128 | 128 |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| SIM defocus (mm) | 0 | 0.001444936568705701 | Primary exposure time | 0.000000 | 0.4 |
| SIM translation stage pos (mm) | -190.132523 | -190.1425803651734 | | | |
| SIM translation stage offset (mm) | 0 | 0.01005778216563158 | | | |
| Observation start time | 313993381.184000 | 313992408.00336 | | | |
| Observation start date | 2007-12-14T04:21:56 | 2007-12-14T04:06:48 | | | |
| Observation end time | 313998381.184000 | 313999023.35368 | | | |
| Observation end date | 2007-12-14T05:45:16 | 2007-12-14T05:57:03 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



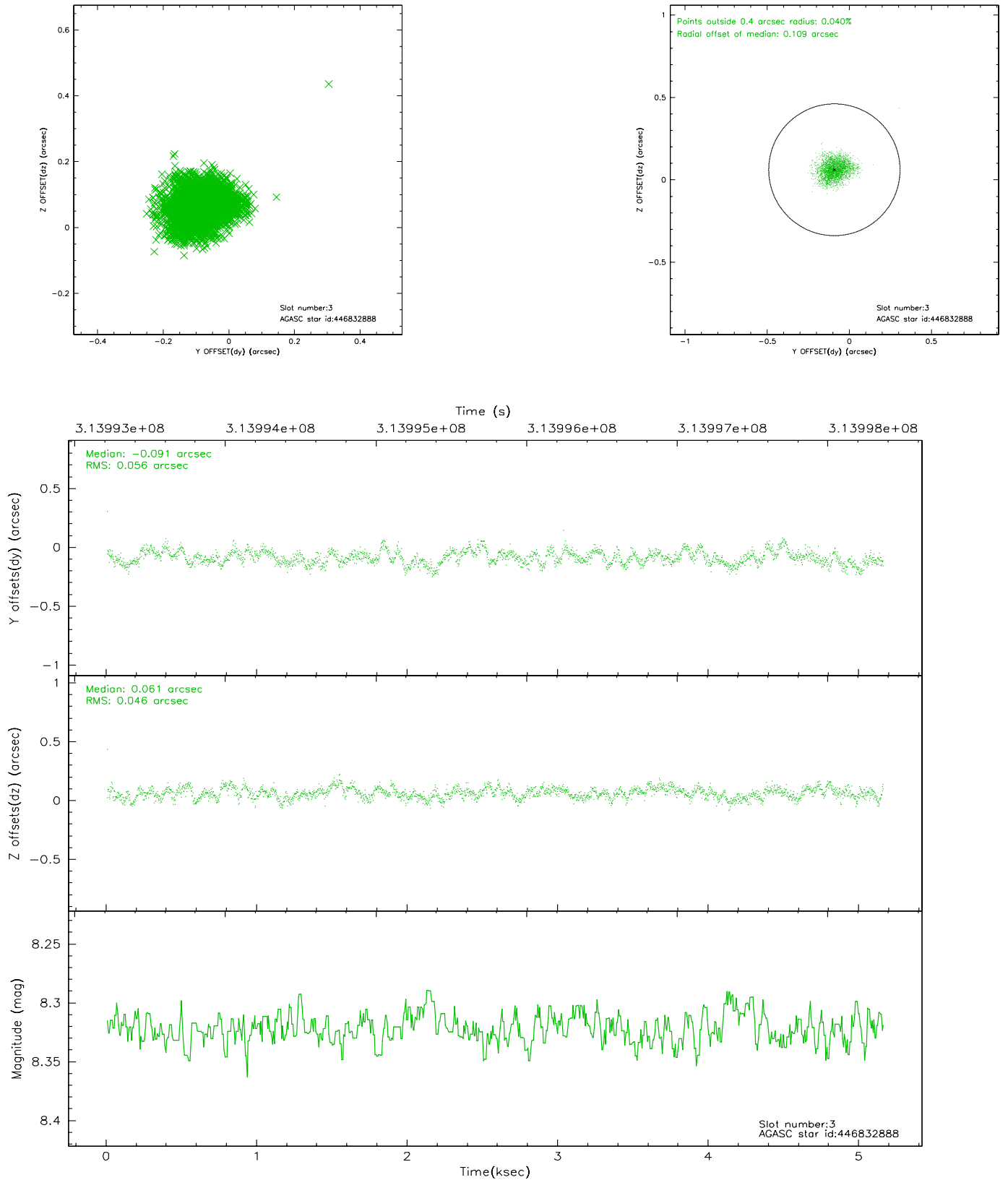


Slot Statistics

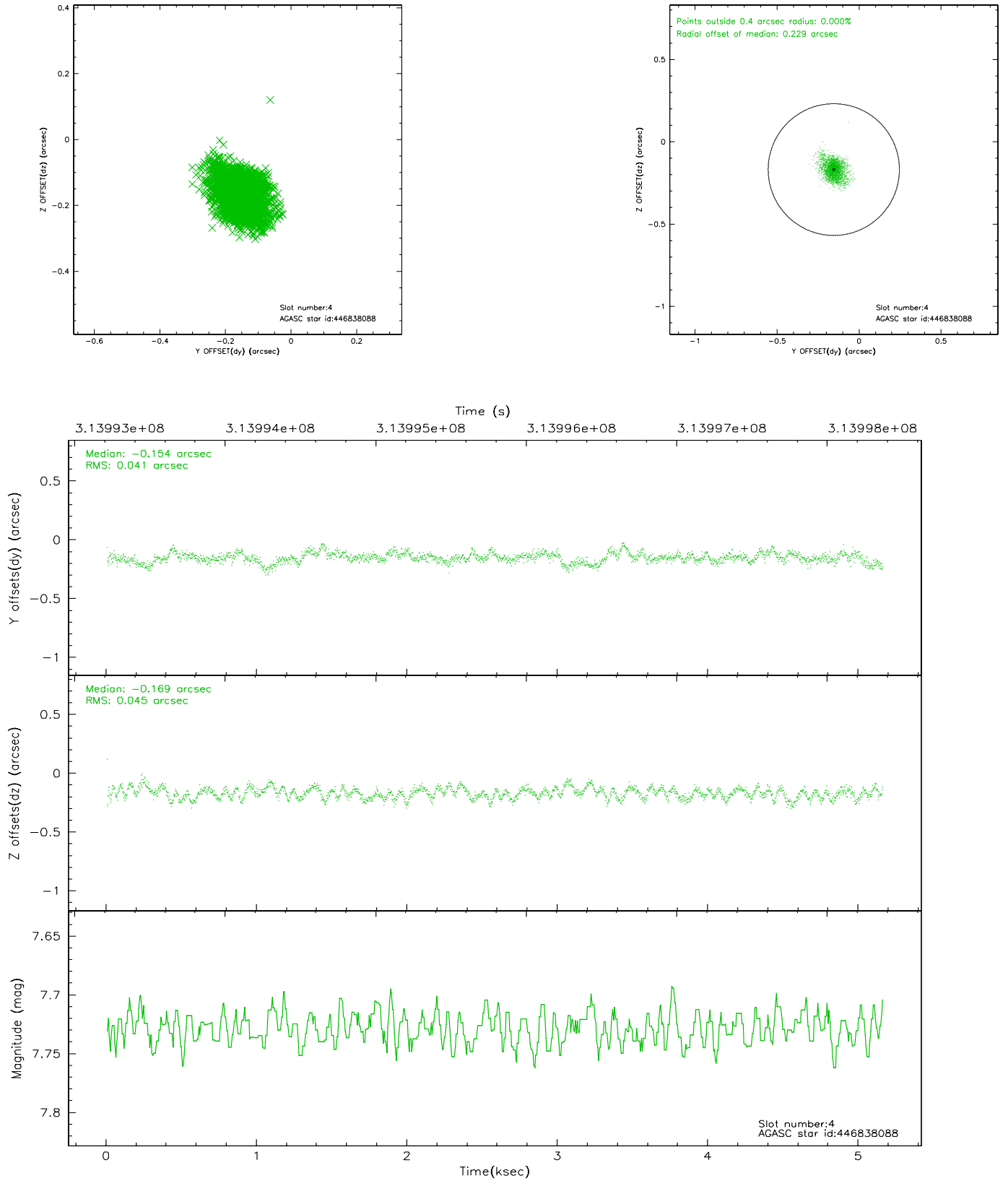
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.09 | 1257 | -0.048 | -0.009 | 0.008 | 0.013 | 0.000000 | 0.000000 | -766.41 | -1736.49 |
| 1 | FID | ACIS-S-4 | 7.19 | 1258 | 0.145 | 0.026 | 0.008 | 0.015 | 0.000000 | 0.000000 | 2146.49 | 170.86 |
| 2 | FID | ACIS-S-5 | 7.22 | 1258 | -0.129 | -0.008 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1817.86 | 165.77 |
| 3 | GUIDE | 446832888 | 8.32 | 2516 | -0.091 | 0.061 | 0.077 | 0.123 | 116.222552 | 48.728234 | 1594.34 | -1589.76 |
| 4 | GUIDE | 446838088 | 7.73 | 2516 | -0.154 | -0.169 | 0.063 | 0.109 | 115.286419 | 48.447607 | 1816.06 | 846.55 |
| 5 | GUIDE | 446960848 | 9.40 | 2513 | 0.054 | 0.139 | 0.100 | 0.157 | 117.022074 | 47.879513 | -2005.14 | -1788.07 |
| 6 | GUIDE | 446432016 | 8.42 | 2513 | 0.050 | -0.155 | 0.065 | 0.105 | 115.720372 | 47.392952 | -2001.19 | 1821.59 |
| 7 | GUIDE | 446964176 | 9.32 | 2512 | 0.141 | 0.125 | 0.109 | 0.175 | 117.066819 | 48.174060 | -1127.16 | -2389.94 |

2.4 Star Slots

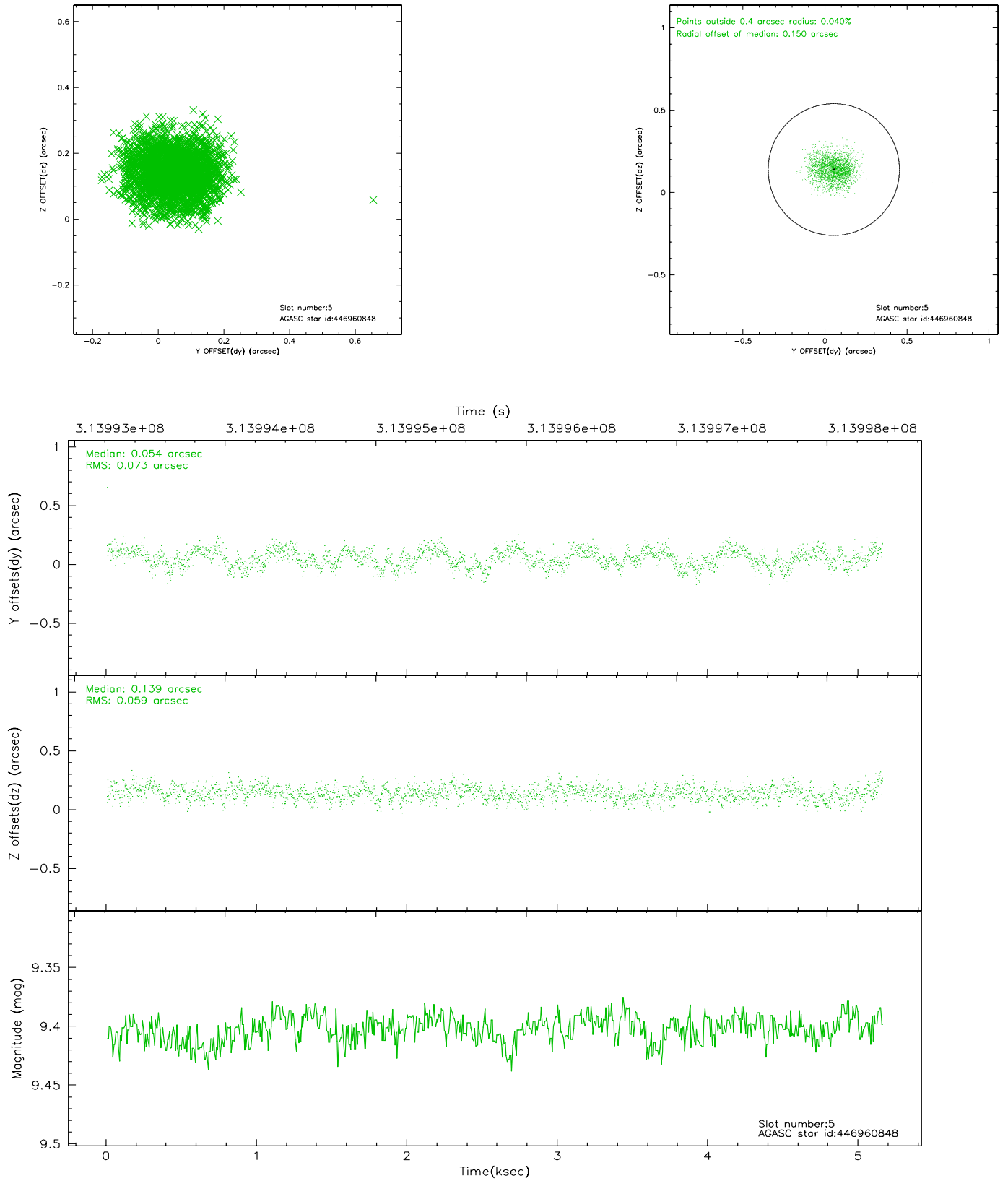
2.4.1 Slot 3



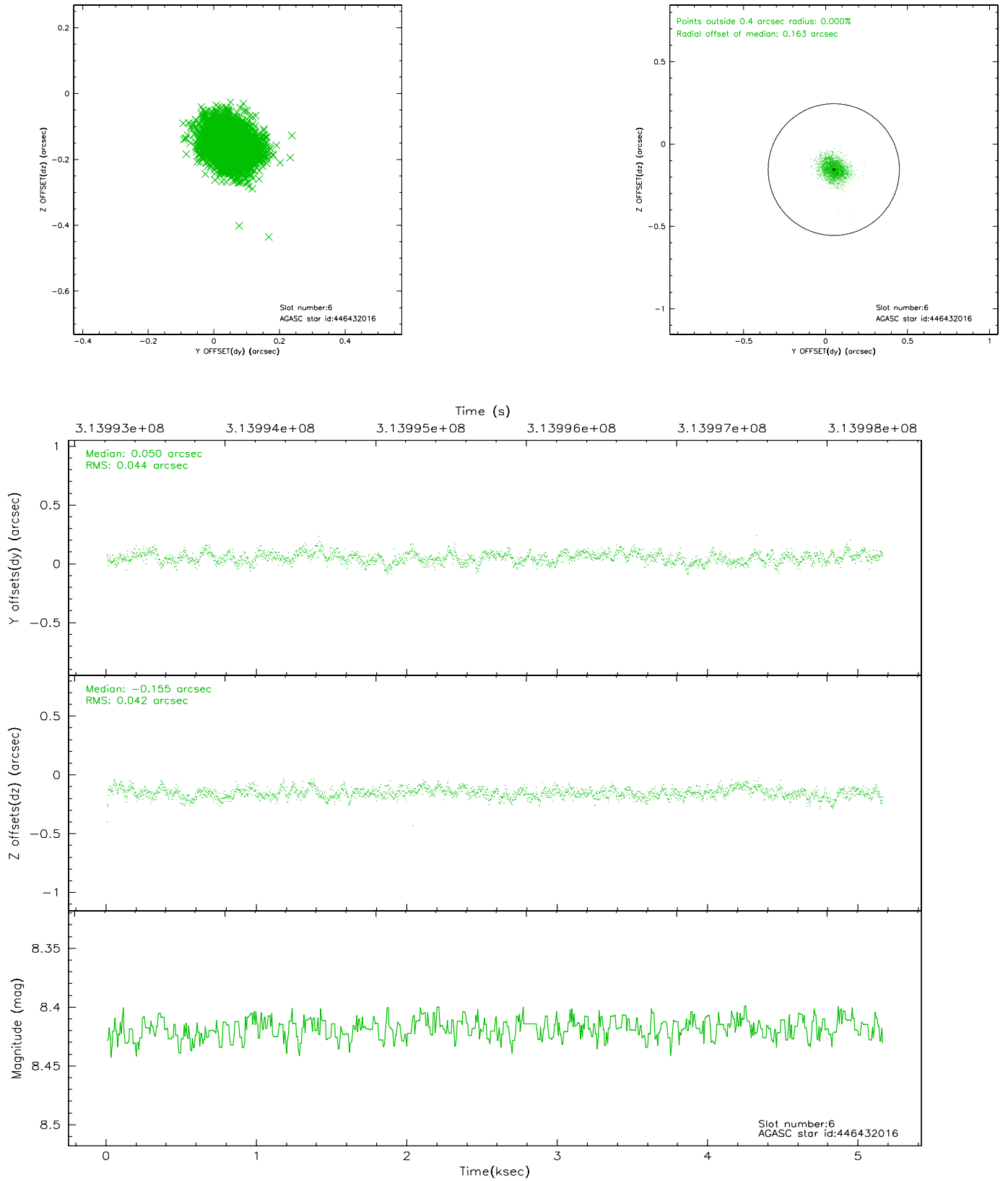
2.4.2 Slot 4



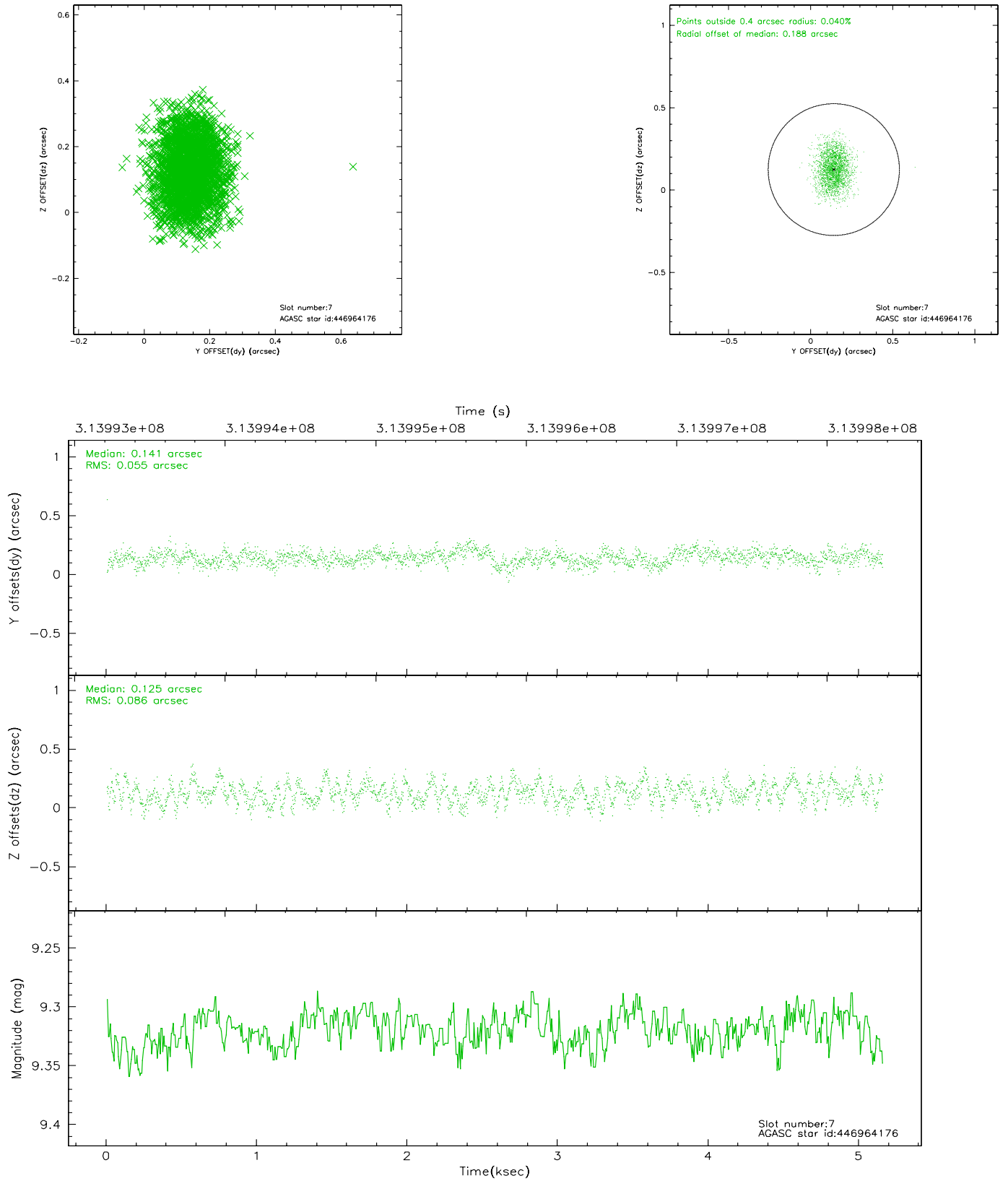
2.4.3 Slot 5



2.4.4 Slot 6

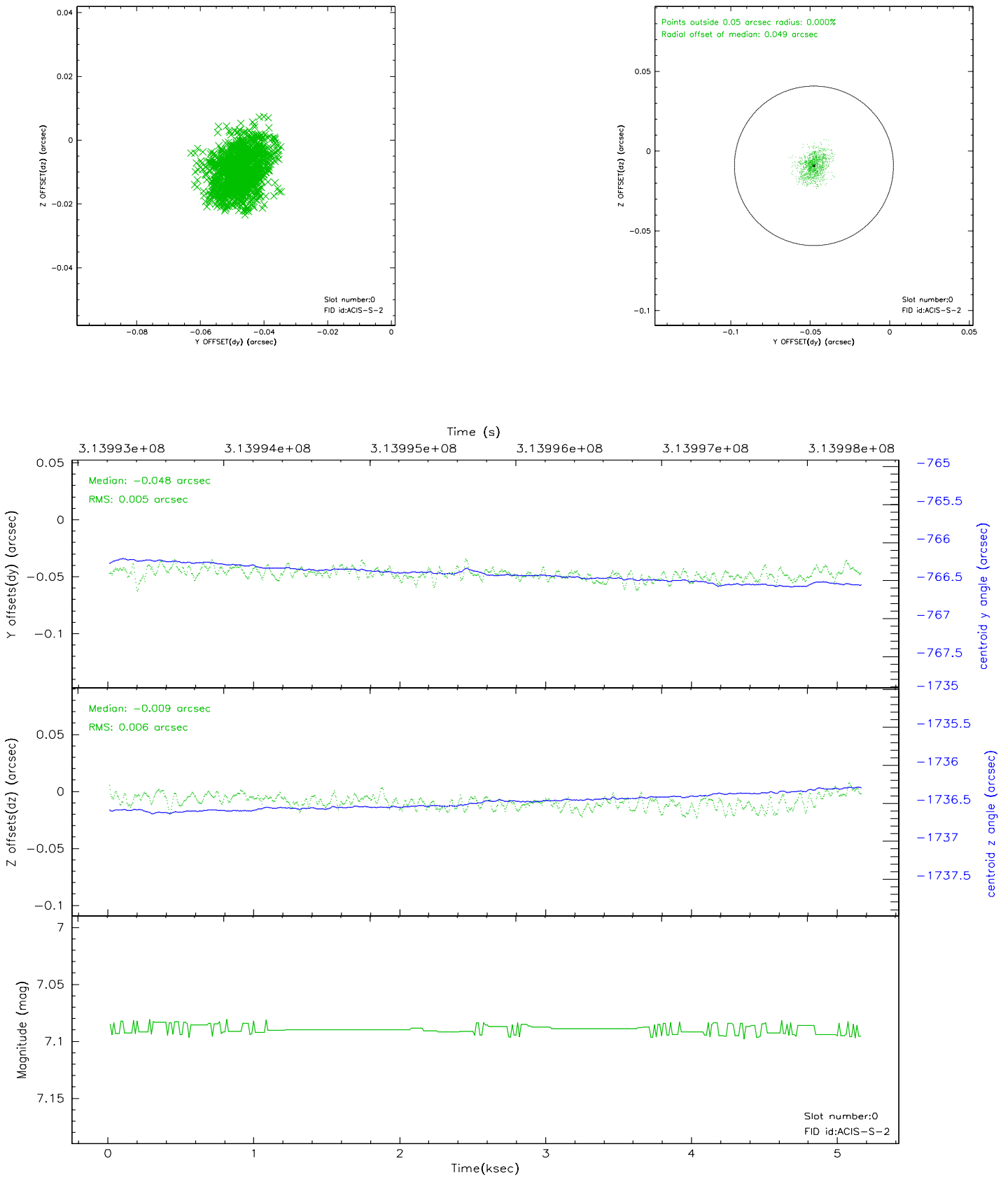


2.4.5 Slot 7

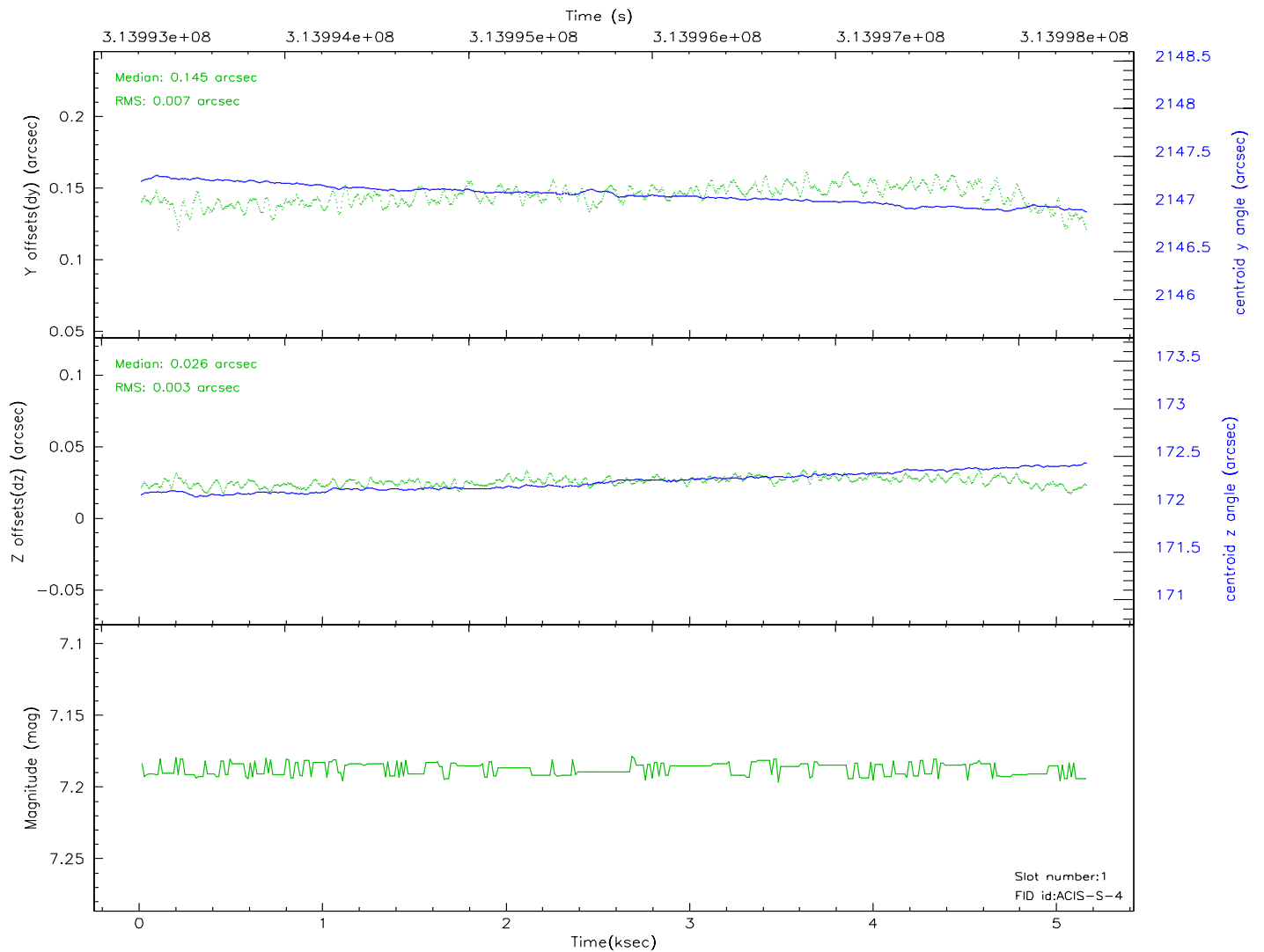
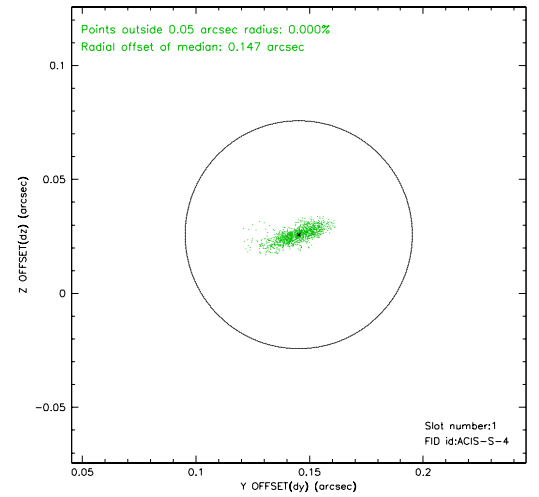
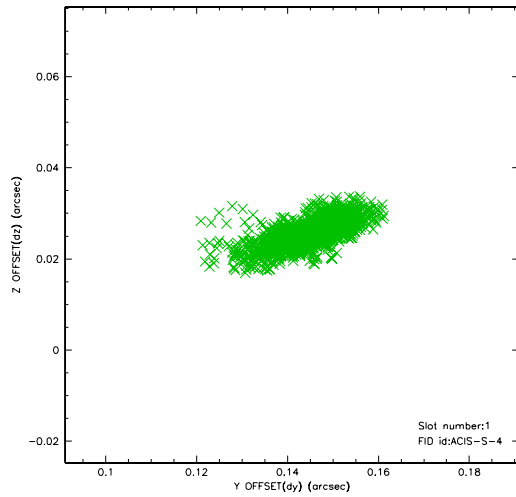


2.5 FID Slots

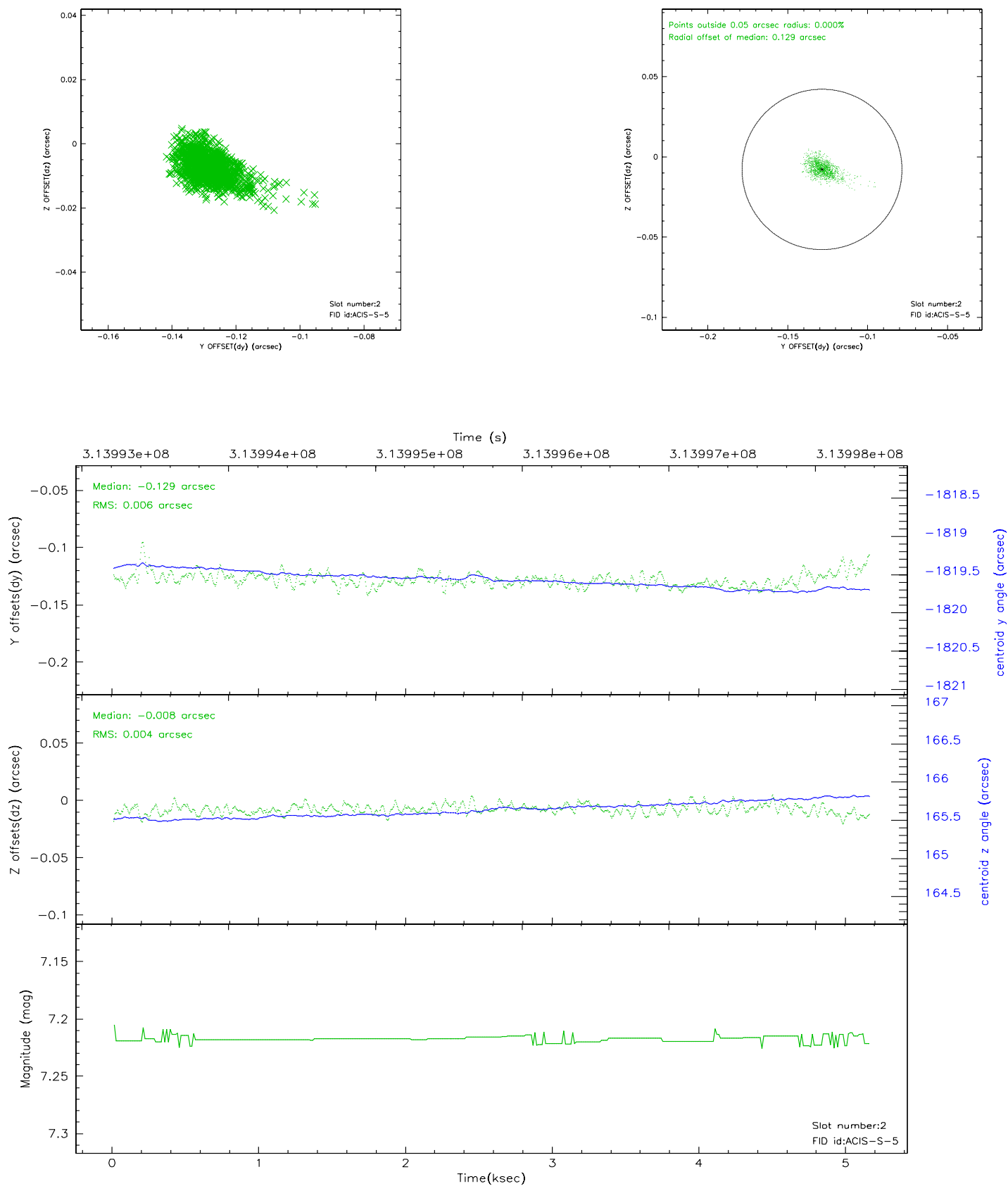
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2007.12.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.15519969 |

A.2 Comments

No ACIS housekeeping data were collected and downlinked for this observation,
do to an operational issue. The only negative impact on the observation is the
lack of accurate focal plane temperature data which is used for instrument
calibration. In order to process the data, ACIS housekeeping files were
constructed that assumed a focal plane temperature of -119.7 degrees C.
The instrument gain files are available only for -120 and -110 degrees
C,
so this assumption should have no impact on the currently processed
data.