

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4583 - L2 Version 001
Chandra X-Ray Center

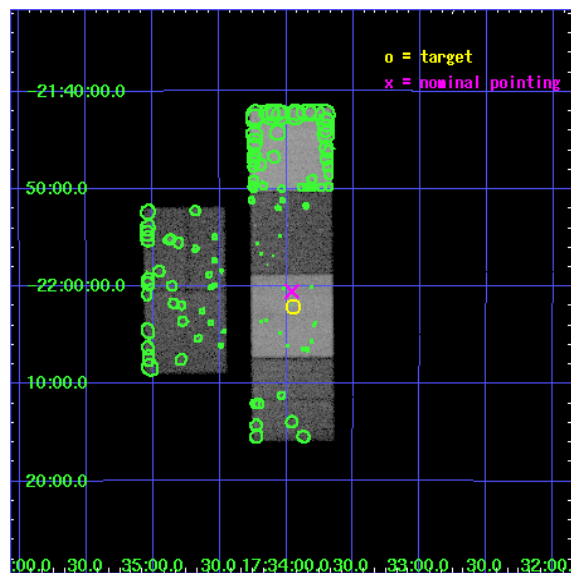
L2 Processing Date : May 18 2006

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| 3 | Point Sources | 17 |
| A | Summary | 18 |
| A.1 | Status | 18 |
| A.2 | Comments | 18 |

1 Front

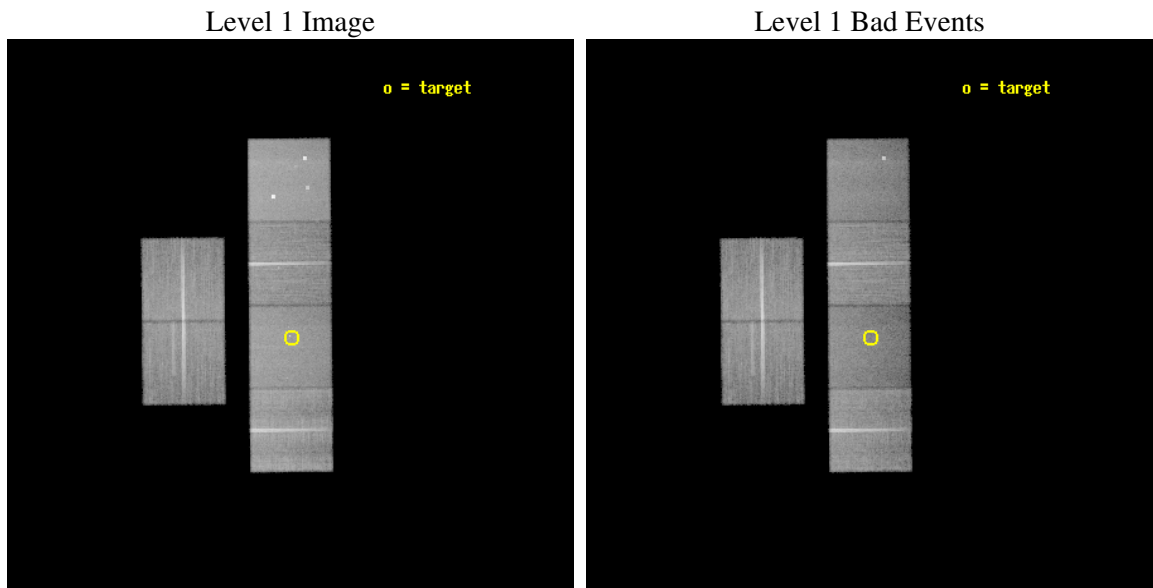
| | |
|----------|---|
| seq_num | 400365 |
| obs_id | 4583 |
| title | Localizing the X-Ray Transient 4U 1730-22 |
| observer | Dr. John Tomsick |
| object | 4U 1730-22 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 263.4875 |
| dec_targ | -22.035278 |
| ra_nom | 263.4896146013 |
| dec_nom | -22.009111850144 |
| roll_nom | 89.489543173702 |
| revision | 2 |
| ontime | 40358.399849653 |
| livetime | 39847.357489846 |
| ontime2 | 40355.158849478 |
| ontime3 | 40358.399849653 |
| ontime5 | 40358.399849653 |
| ontime6 | 40358.399849653 |
| ontime7 | 40358.399849653 |
| ontime8 | 40355.158839464 |
| l2events | 345903 |



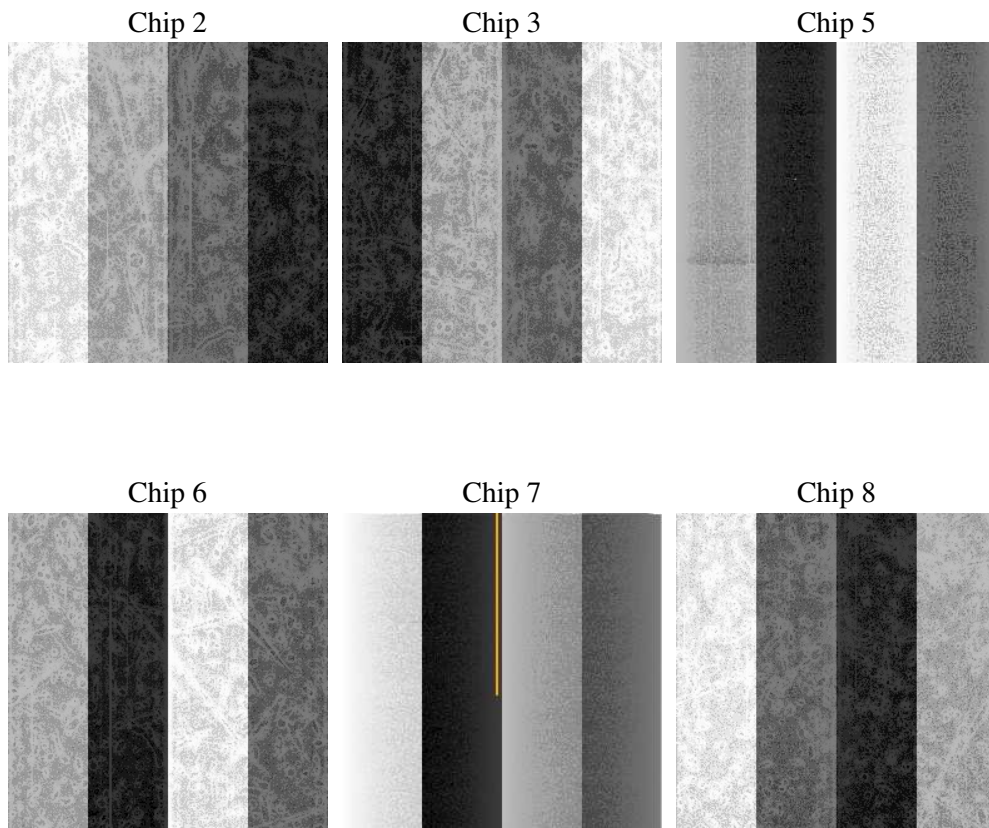
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.2 |
| caldsver | 3.2.2 |
| date | 2006-05-19T00:30:22 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 40400.000000 |
| ontime | 40363.547461659 |
| ontime2 | 40360.306441575 |
| ontime3 | 40363.547461659 |
| ontime5 | 40363.547461659 |
| ontime6 | 40363.547461659 |
| ontime7 | 40363.547461659 |
| ontime8 | 40360.30645147 |
| l1events | 1617197 |

2.1.4 Events

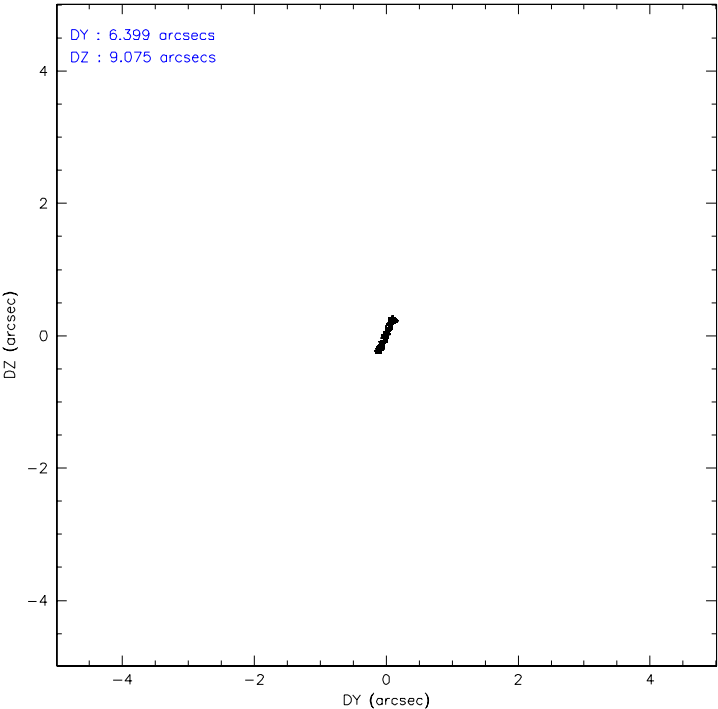
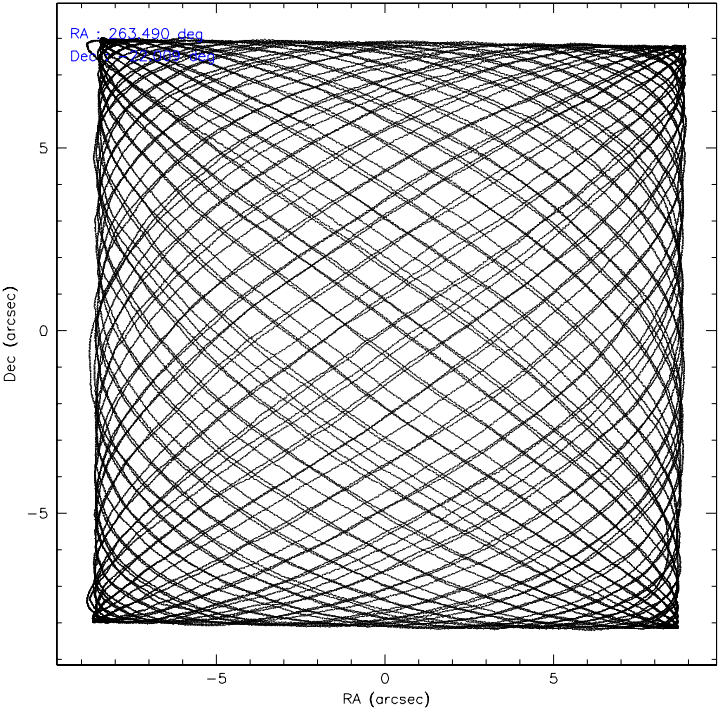
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 255491 | 234489 | 323657 | 243388 | 263917 | 296255 |
| rejected events | 230604 | 210975 | 166876 | 216171 | 149834 | 228059 |
| rejected % | 90% | 89% | 51% | 88% | 56% | 76% |

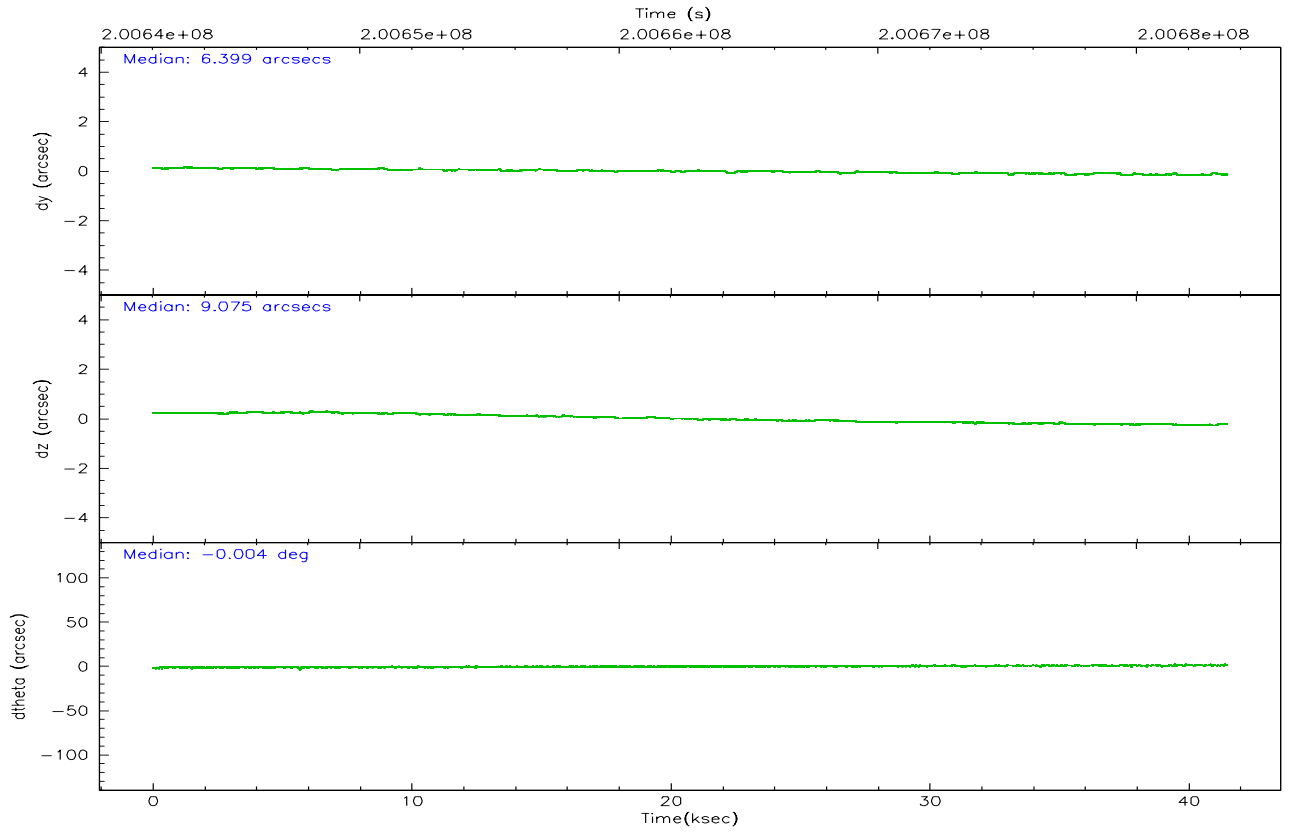
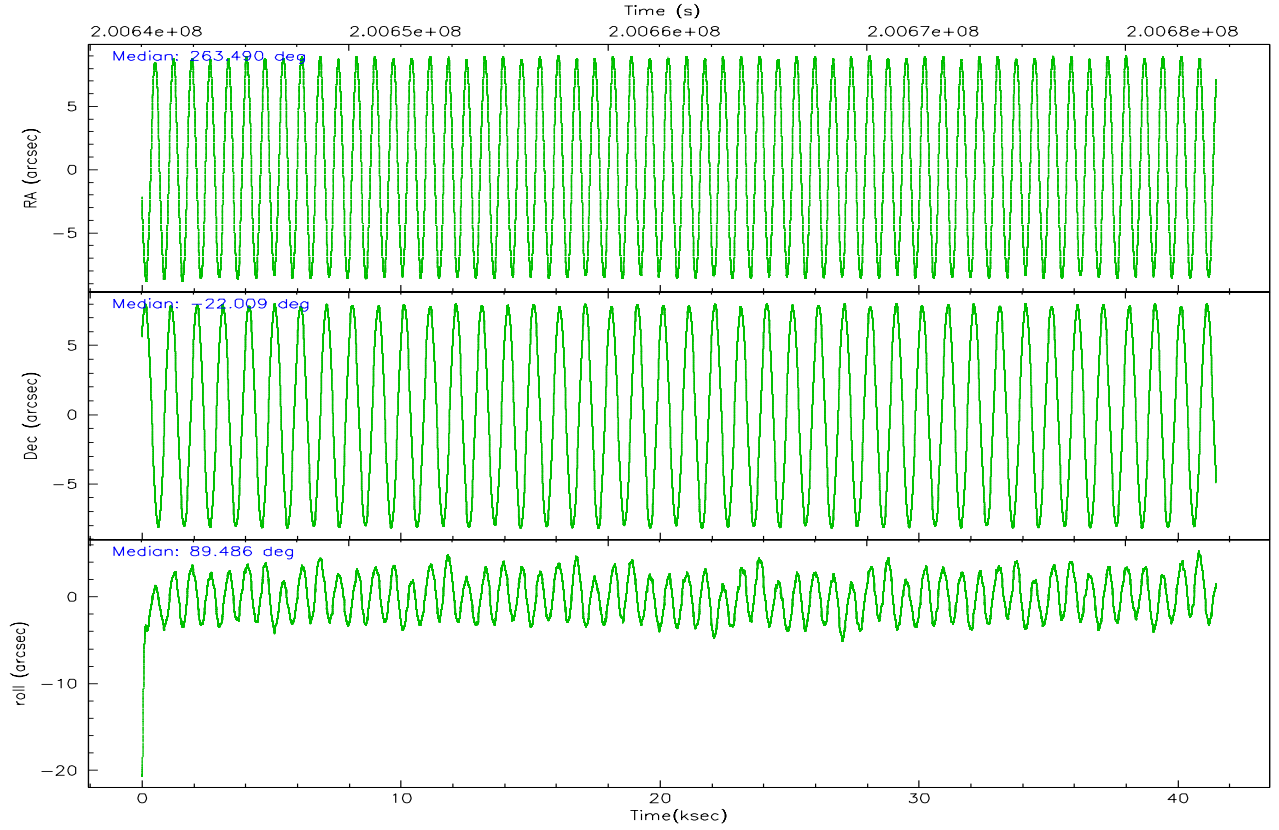
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 9896 | 9222 | 13791 | 10997 | 7932 | 20789 |
| | 3% | 3% | 4% | 4% | 3% | 7% |
| grade 1 events | 137 | 148 | 230 | 126 | 135 | 193 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 5565 | 4641 | 48754 | 5494 | 28459 | 15004 |
| | 2% | 1% | 15% | 2% | 10% | 5% |
| grade 3 events | 2526 | 2703 | 4458 | 2880 | 6992 | 7233 |
| | 0% | 1% | 1% | 1% | 2% | 2% |
| grade 4 events | 2663 | 2615 | 3906 | 2774 | 6857 | 6864 |
| | 1% | 1% | 1% | 1% | 2% | 2% |
| grade 5 events | 8020 | 9016 | 18310 | 9348 | 19856 | 13362 |
| | 3% | 3% | 5% | 3% | 7% | 4% |
| grade 6 events | 4243 | 4337 | 85893 | 5078 | 63853 | 18312 |
| | 1% | 1% | 26% | 2% | 24% | 6% |
| grade 7 events | 222441 | 201807 | 148315 | 206691 | 129833 | 214498 |
| | 87% | 86% | 45% | 84% | 49% | 72% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-235678 | ACIS-235678 | 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 | 263.504439 | 263.489614601297 | Alternating exposures requested | N | N |
| Pointing Dec | -22.032631 | -22.00911185014367 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 89.338471 | 89.48954317370222 | | | |
| 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 | 200643093.184000 | 200641682.53252 | | | |
| Observation start date | 2004-05-11T06:10:29 | 2004-05-11T05:48:02 | | | |
| Observation end time | 200683493.184000 | 200684145.7219 | | | |
| Observation end date | 2004-05-11T17:23:49 | 2004-05-11T17:35:45 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



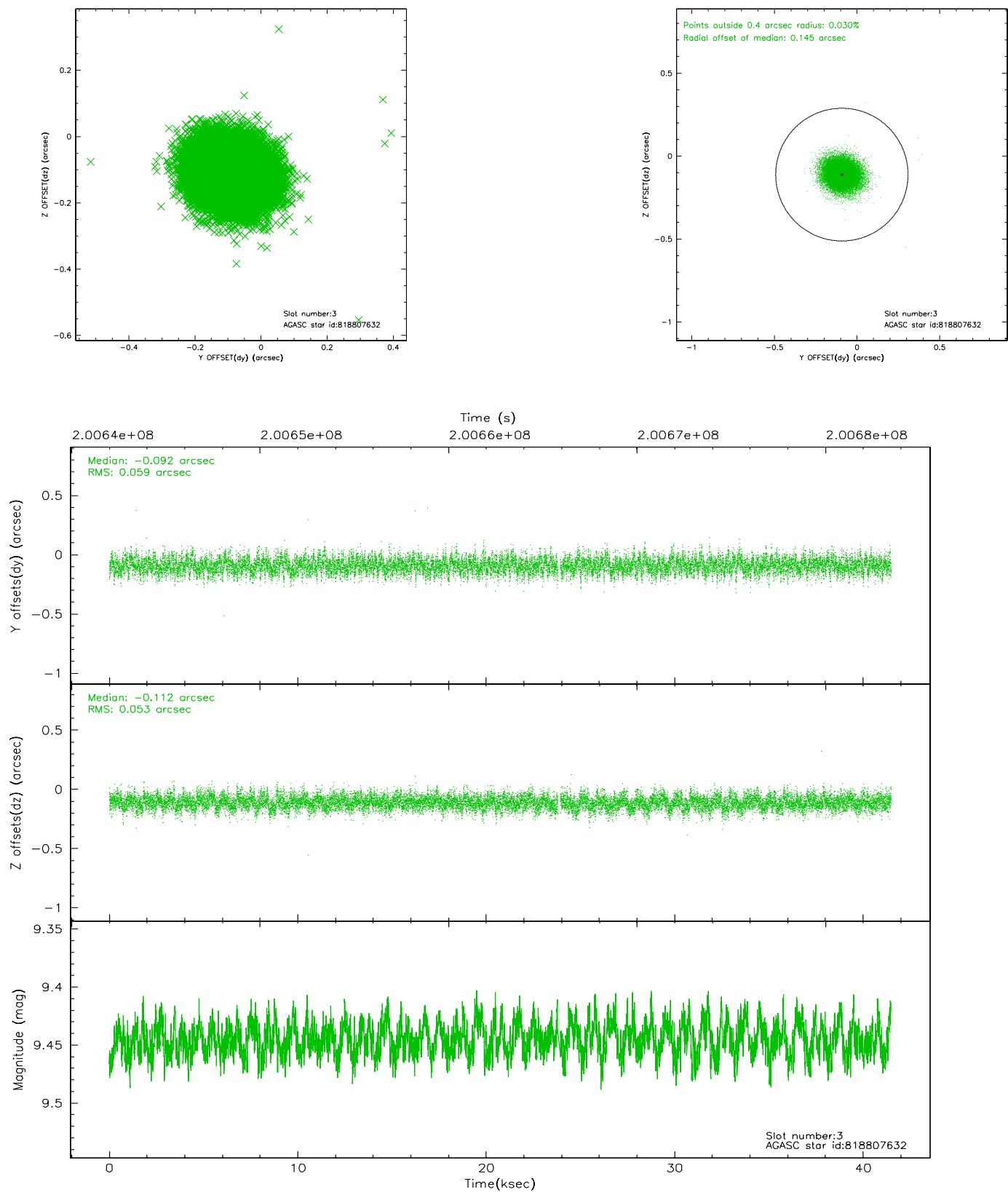


Slot Statistics

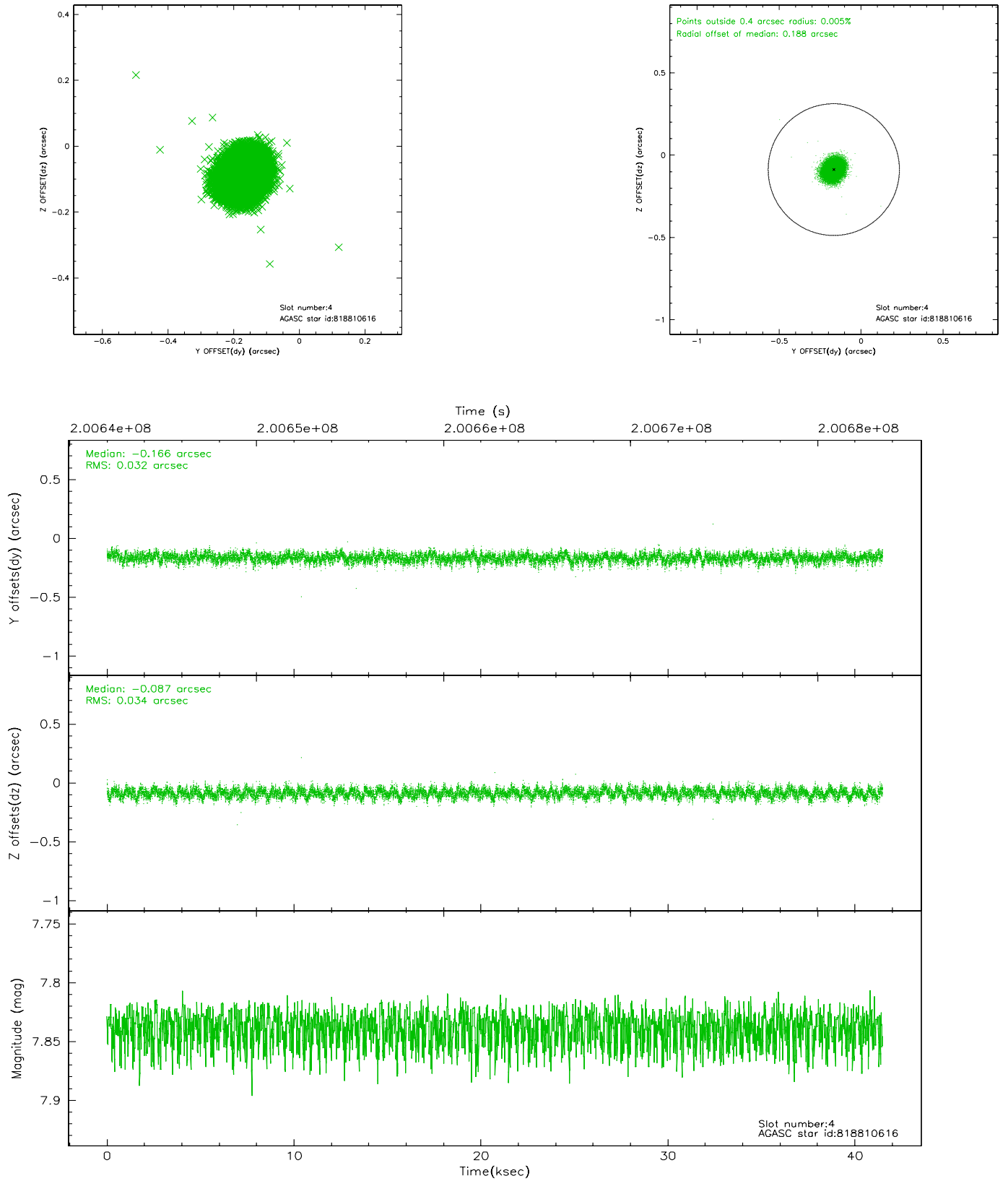
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 10119 | -0.039 | -0.021 | 0.008 | 0.014 | 0.000000 | 0.000000 | -759.16 | -1730.33 |
| 1 | FID | ACIS-S-4 | 7.21 | 10118 | 0.048 | 0.024 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2154.19 | 178.20 |
| 2 | FID | ACIS-S-5 | 7.23 | 10119 | -0.040 | 0.006 | 0.008 | 0.013 | 0.000000 | 0.000000 | -1812.00 | 171.84 |
| 3 | GUIDE | 818807632 | 9.45 | 20163 | -0.092 | -0.112 | 0.084 | 0.137 | 262.882186 | -21.522238 | 1808.99 | 2105.06 |
| 4 | GUIDE | 818810616 | 7.84 | 20233 | -0.166 | -0.087 | 0.050 | 0.080 | 263.165516 | -21.873468 | 558.60 | 1138.93 |
| 5 | GUIDE | 894698768 | 9.27 | 20228 | 0.149 | -0.055 | 0.087 | 0.145 | 263.387852 | -22.648443 | -2221.13 | 361.69 |
| 6 | GUIDE | 894832256 | 8.82 | 20232 | 0.085 | 0.081 | 0.082 | 0.127 | 264.009371 | -22.542673 | -1819.30 | -1699.98 |
| 7 | GUIDE | 820526624 | 9.10 | 20228 | 0.026 | 0.179 | 0.088 | 0.145 | 264.120973 | -22.441088 | -1450.71 | -2068.29 |

2.4 Star Slots

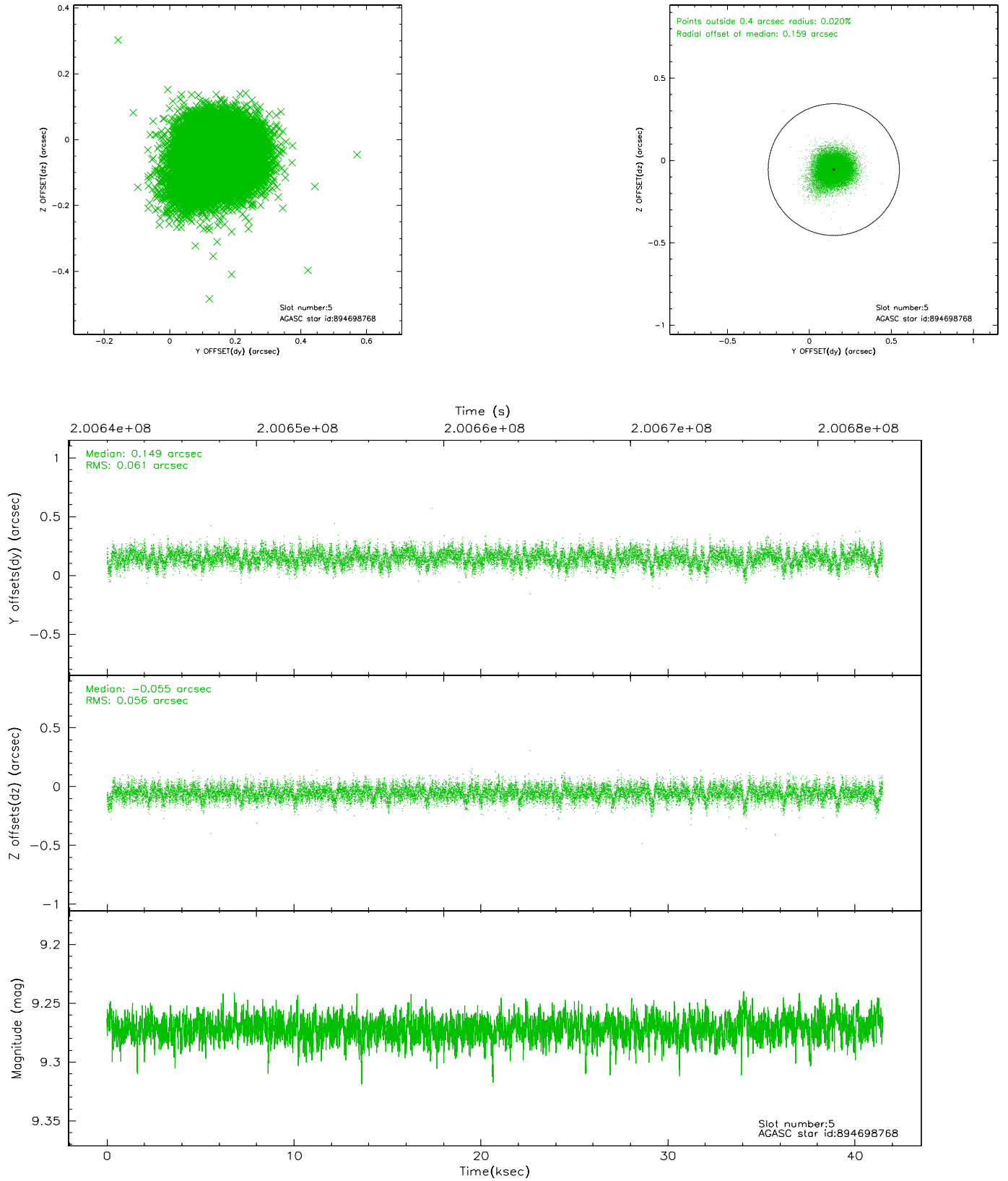
2.4.1 Slot 3



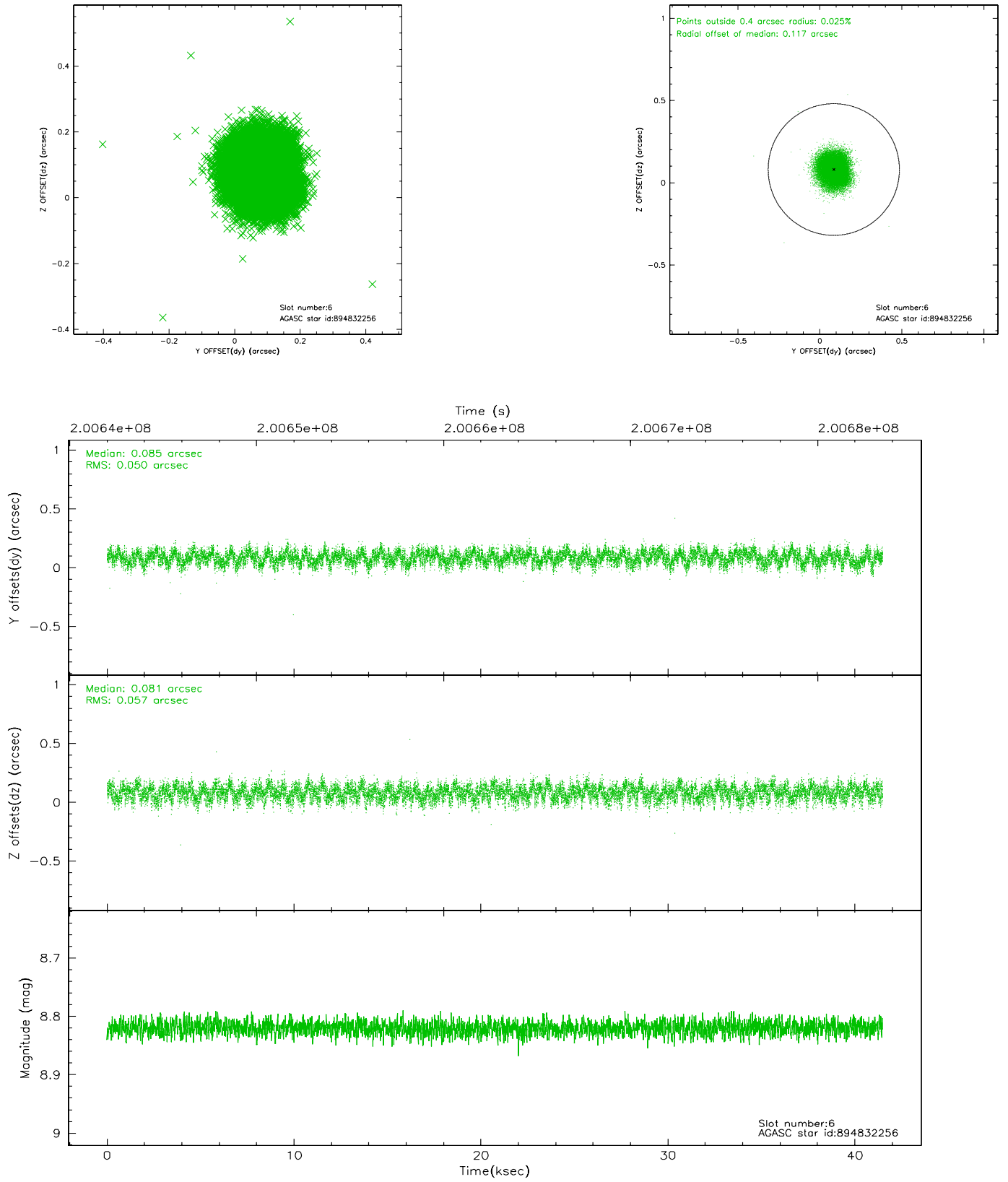
2.4.2 Slot 4



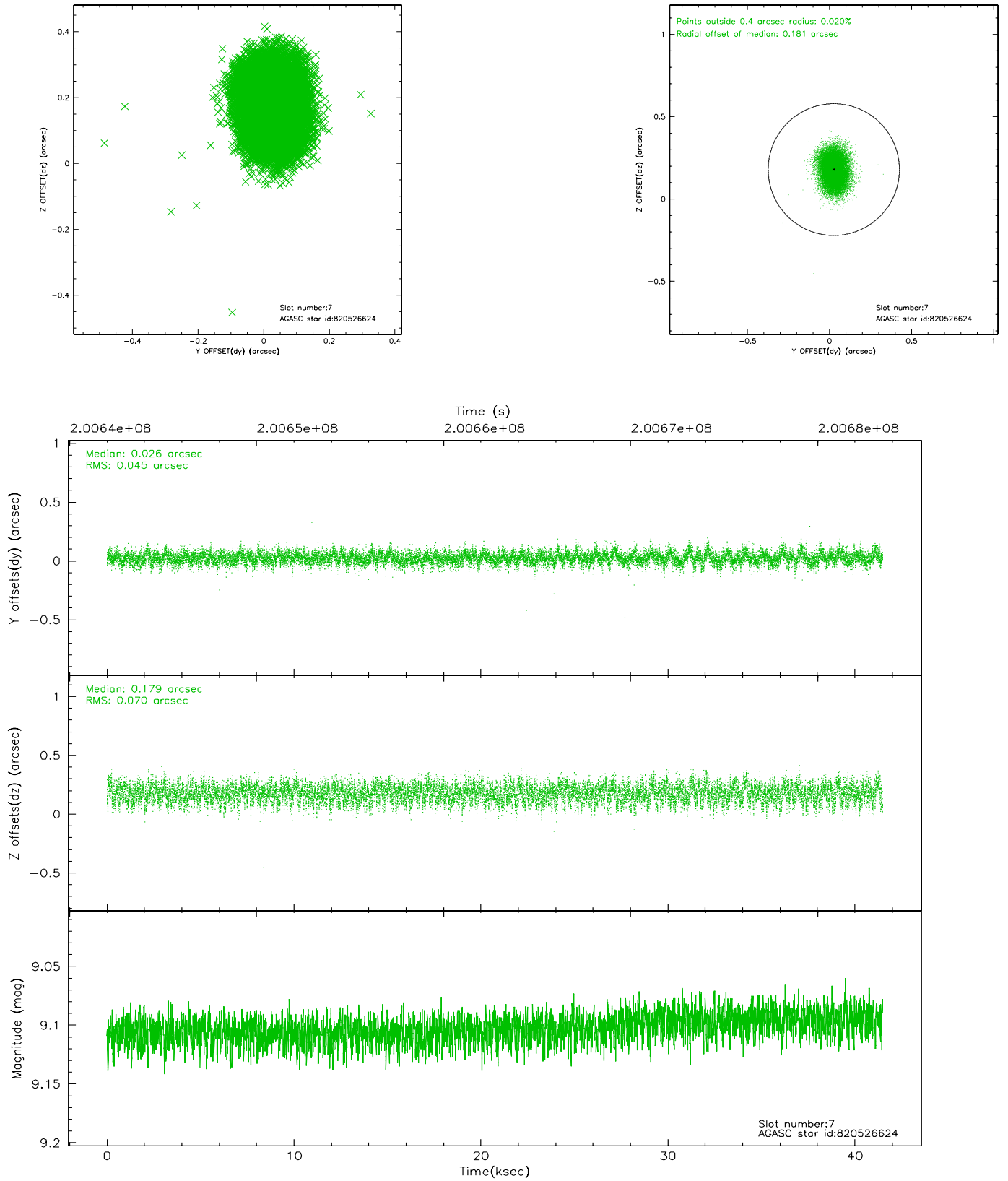
2.4.3 Slot 5



2.4.4 Slot 6

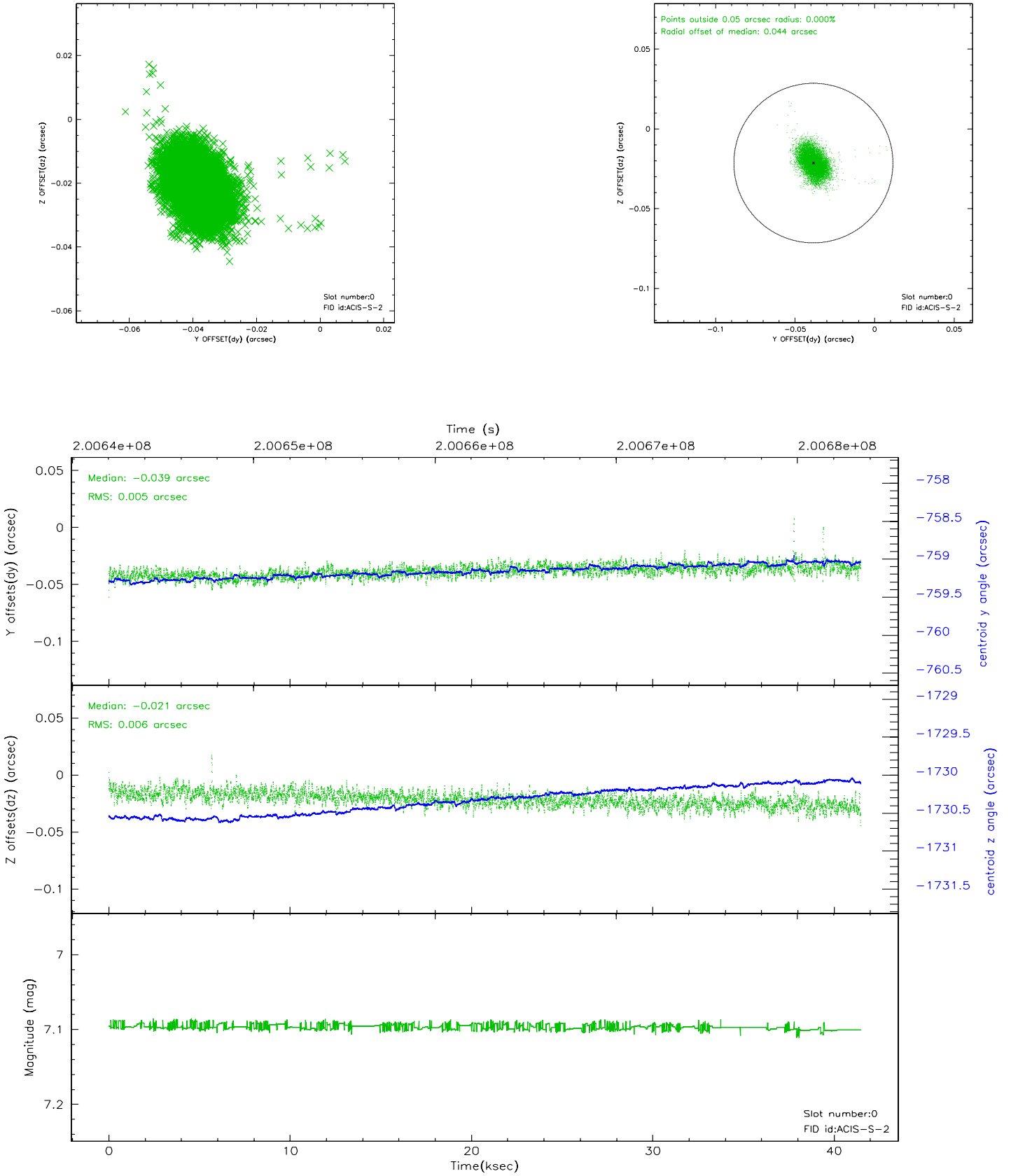


2.4.5 Slot 7

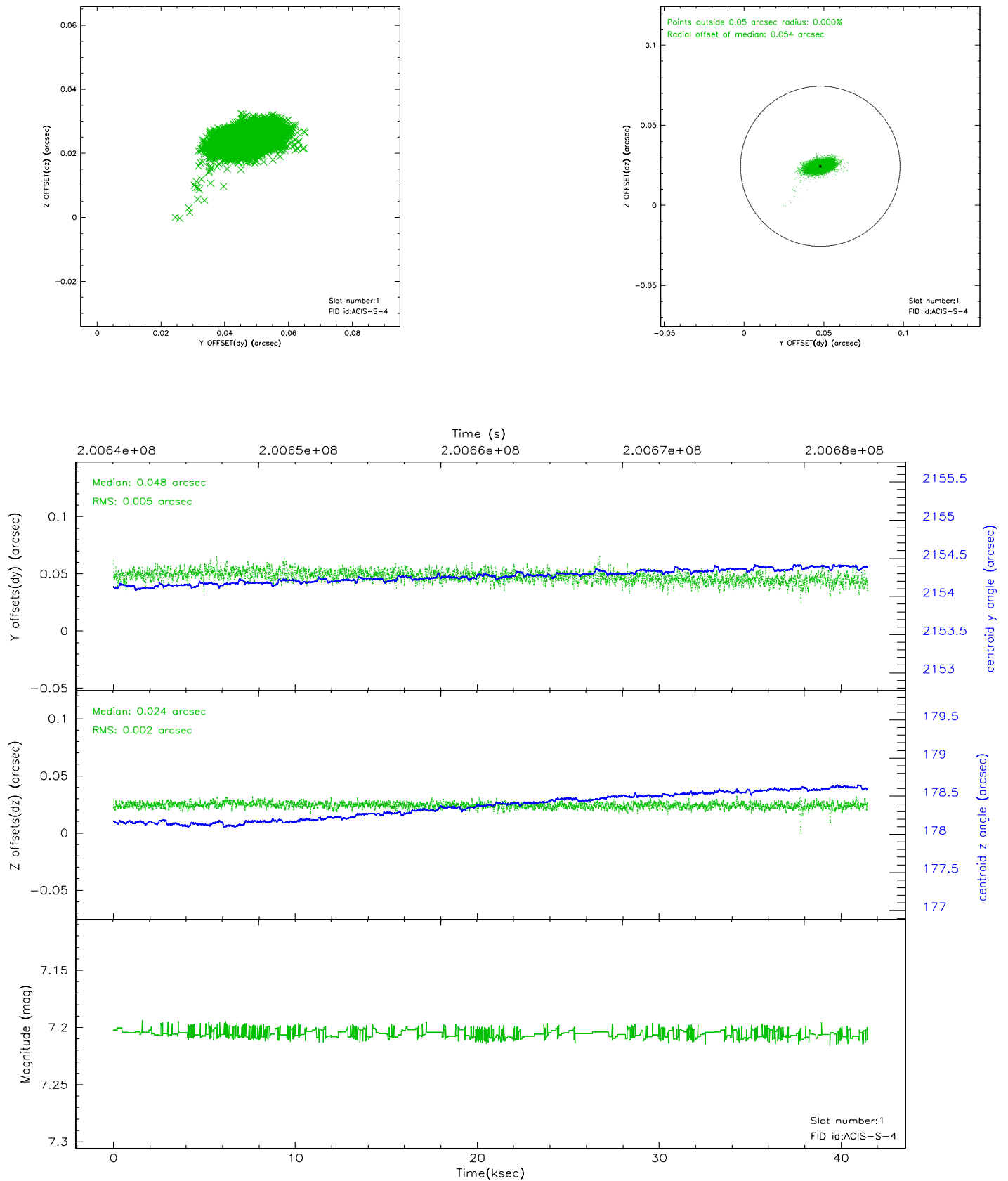


2.5 FID Slots

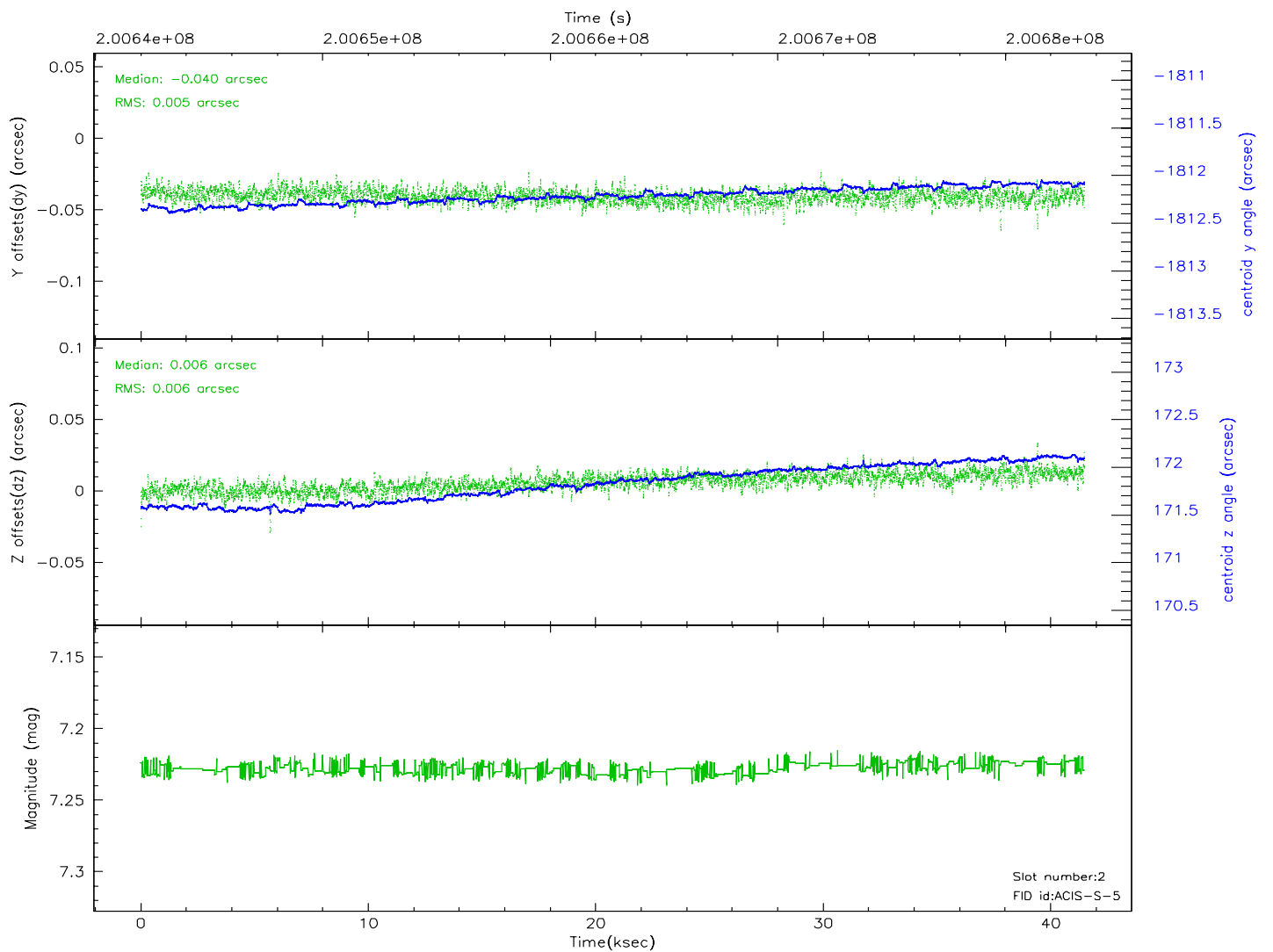
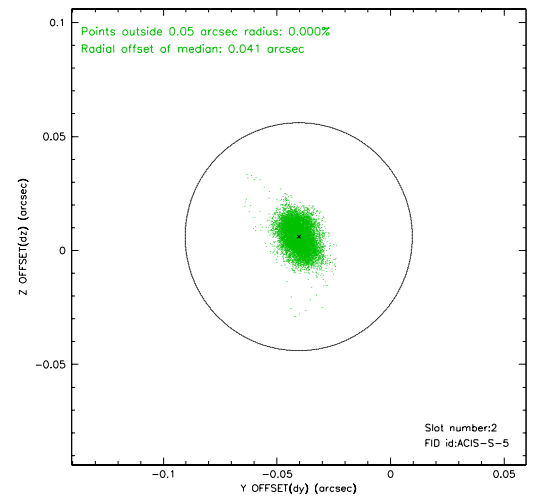
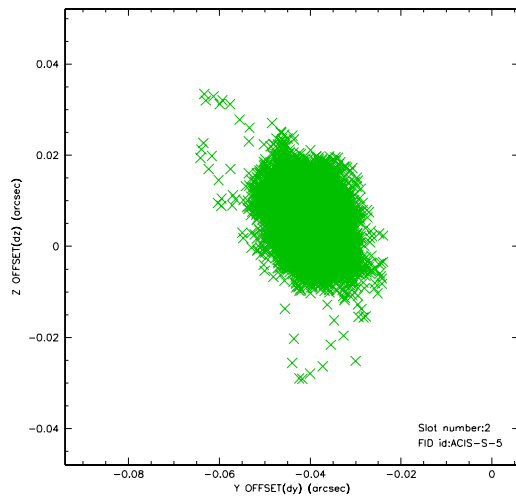
2.5.1 Slot 0



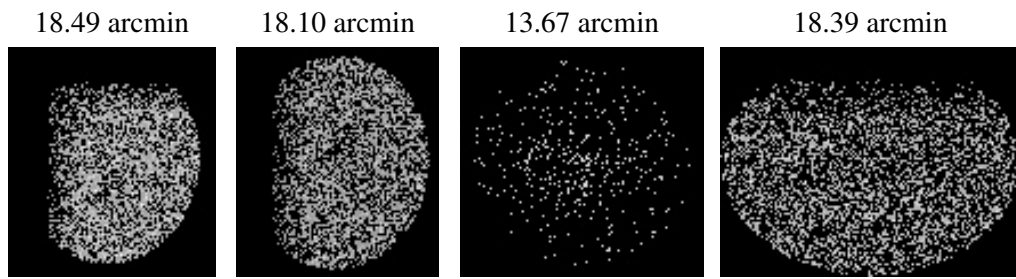
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.05.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 40.361 |

A.2 Comments