

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3808 - L2 Version 001
Chandra X-Ray Center

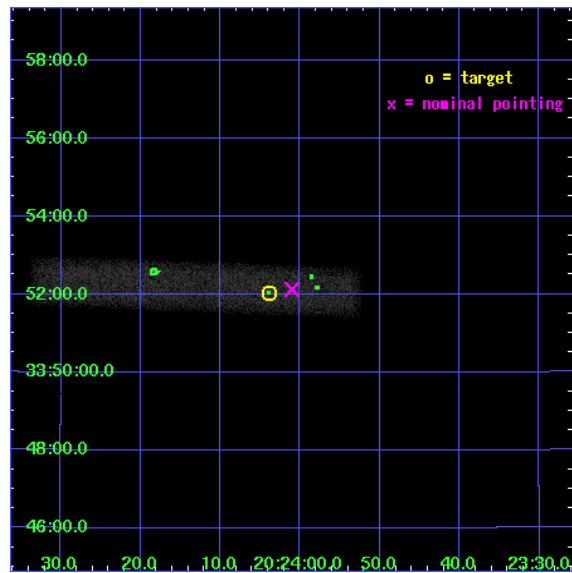
L2 Processing Date : Jul 12 2006

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1 Front

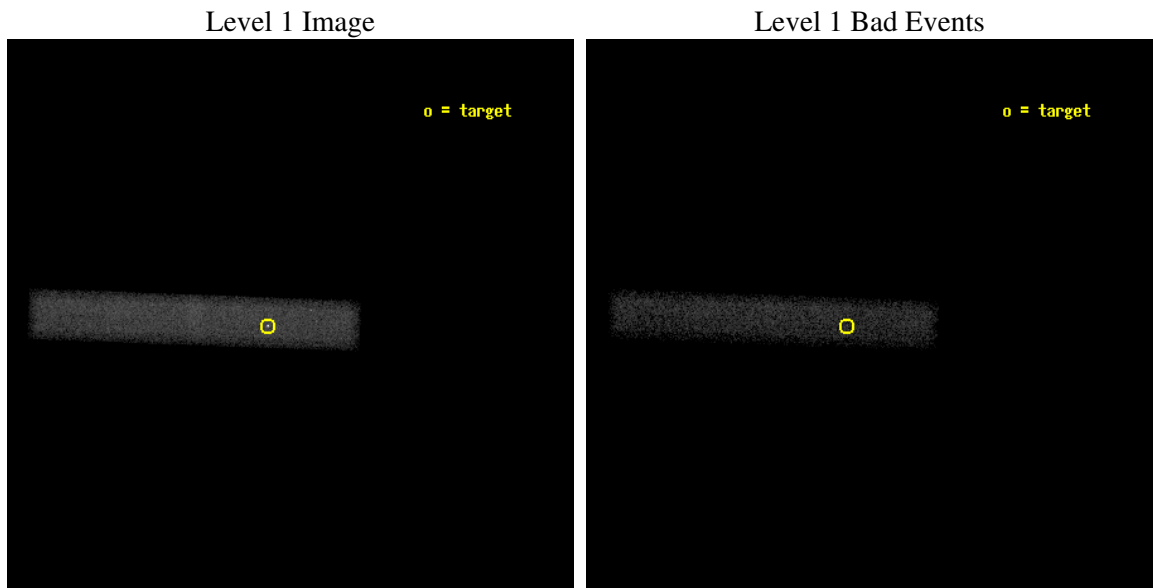
| | |
|----------|--|
| seq_num | 400295 |
| obs_id | 3808 |
| title | PROBING THE ACCRETION GEOMETRY OF A QUIESCENT BLACK HOLE |
| observer | Dr Robert Hynes |
| object | V404 CYG |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 306.015833 |
| dec_targ | 33.86725 |
| ra_nom | 306.00433169975 |
| dec_nom | 33.868600821149 |
| roll_nom | 182.10433096798 |
| revision | 2 |
| ontime | 61317.477793694 |
| livetime | 55611.715757023 |
| ontime7 | 61317.477793694 |
| l2events | 29889 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8 |
| caldbver | 3.2.2 |
| date | 2006-07-12T14:56:10 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 61165.000000 |
| ontime | 62039.976015538 |
| ontime7 | 62039.976015538 |
| l1events | 70238 |

2.1.4 Events

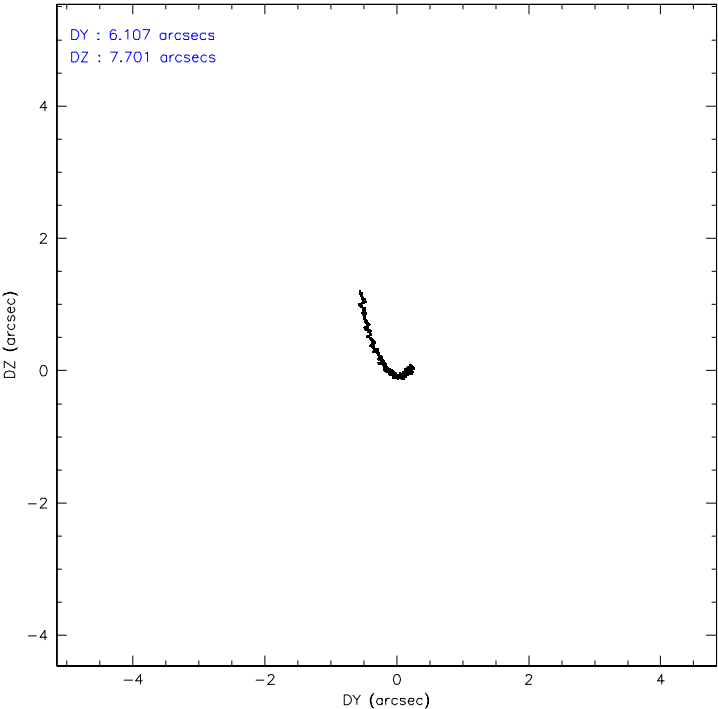
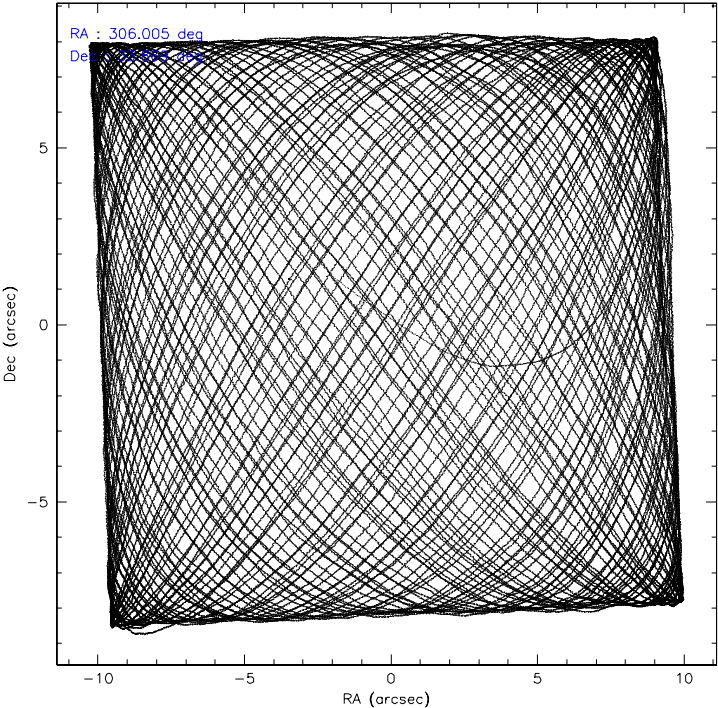
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 70238 |
| rejected events | 39051 |
| rejected % | 55% |

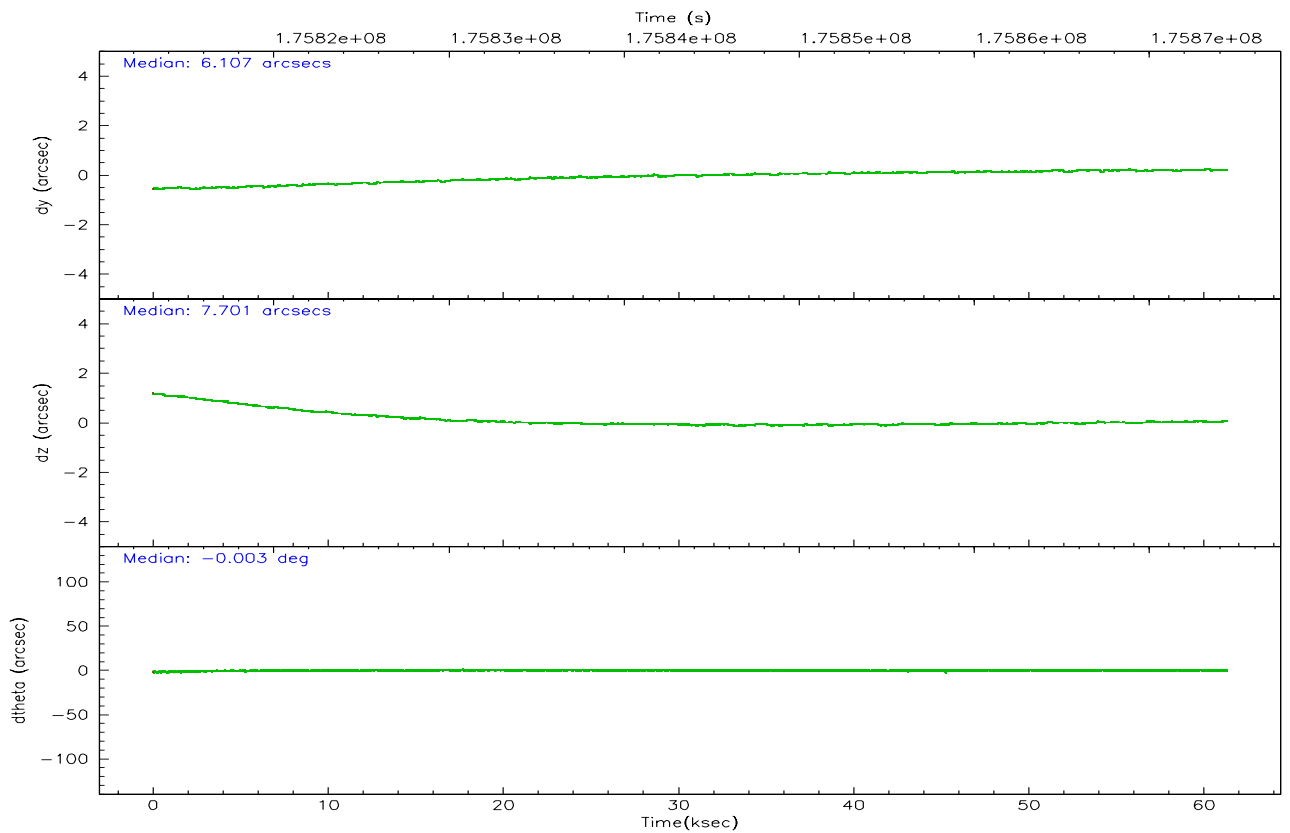
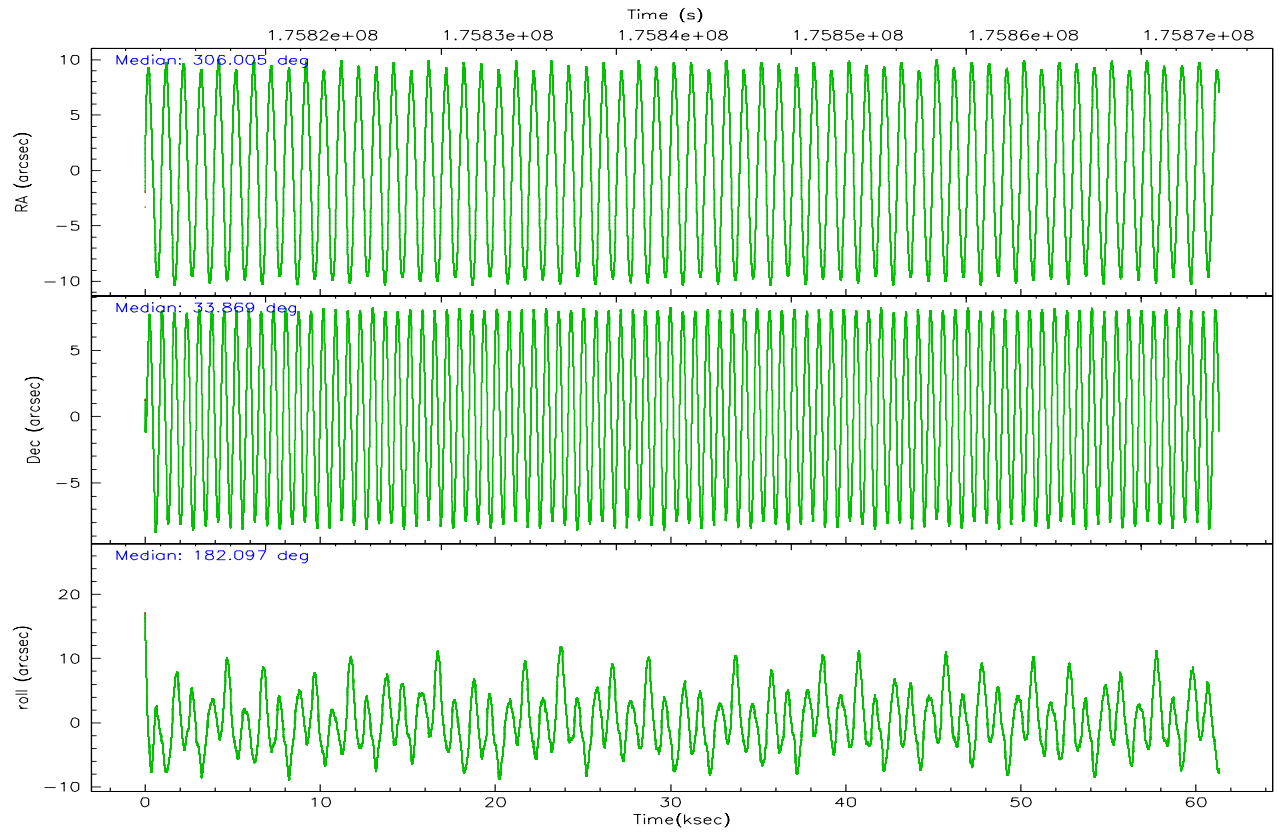
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 2629 |
| | 3% |
| grade 1 events | 77 |
| | 0% |
| grade 2 events | 7141 |
| | 10% |
| grade 3 events | 3330 |
| | 4% |
| grade 4 events | 3172 |
| | 4% |
| grade 5 events | 4856 |
| | 6% |
| grade 6 events | 15245 |
| | 21% |
| grade 7 events | 33788 |
| | 48% |

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 | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | 1/8 | 1/8 |
| Pointing RA | 306.031847 | 306.0043316997521 | Subarray start row | 0 | 449 |
| Pointing Dec | 33.883374 | 33.868600821149 | Subarray row count | 1024 | 128 |
| Pointing Roll | 181.932365 | 182.1043309679833 | Alternating exposures requested | N | N |
| Window start time | 175813264.184000 | 175813264.184000 | Primary exposure time | 0.000000 | 0.4 |
| Window stop time | 175878064.184000 | 175878064.184000 | | | |
| 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 | 175813264.184000 | 175812294.65444 | | | |
| Observation start date | 2003-07-28T21:00:00 | 2003-07-28T20:44:54 | | | |
| Observation end time | 175874429.184000 | 175875111.78212 | | | |
| Observation end date | 2003-07-29T13:59:25 | 2003-07-29T14:11:51 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



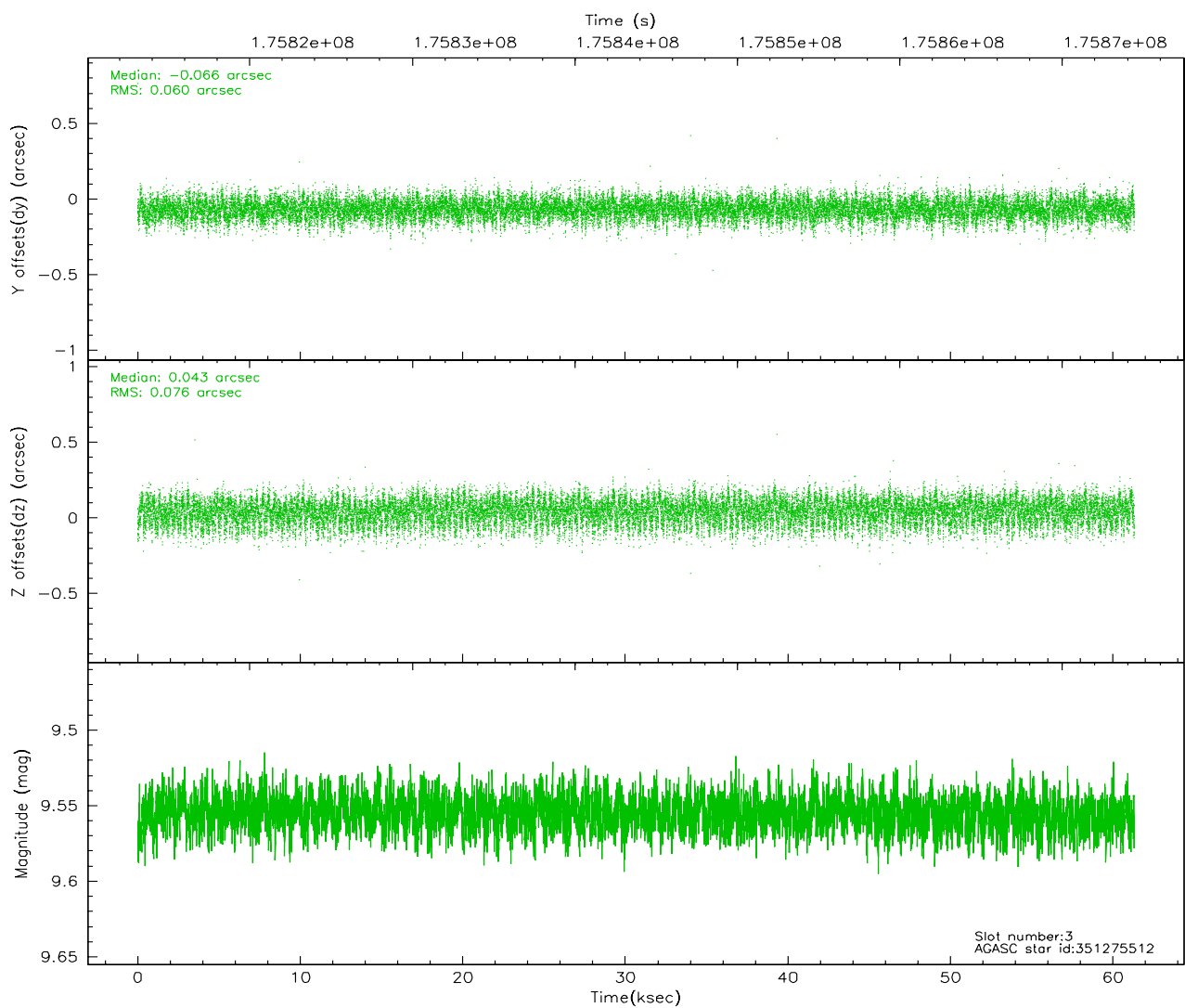
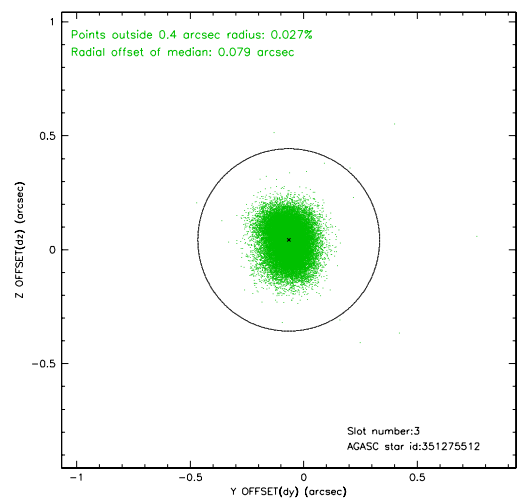
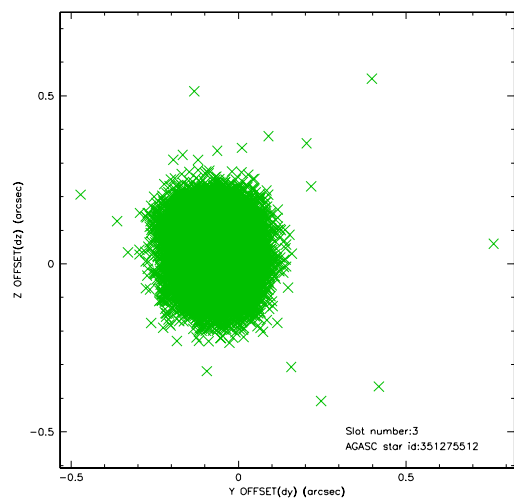


Slot Statistics

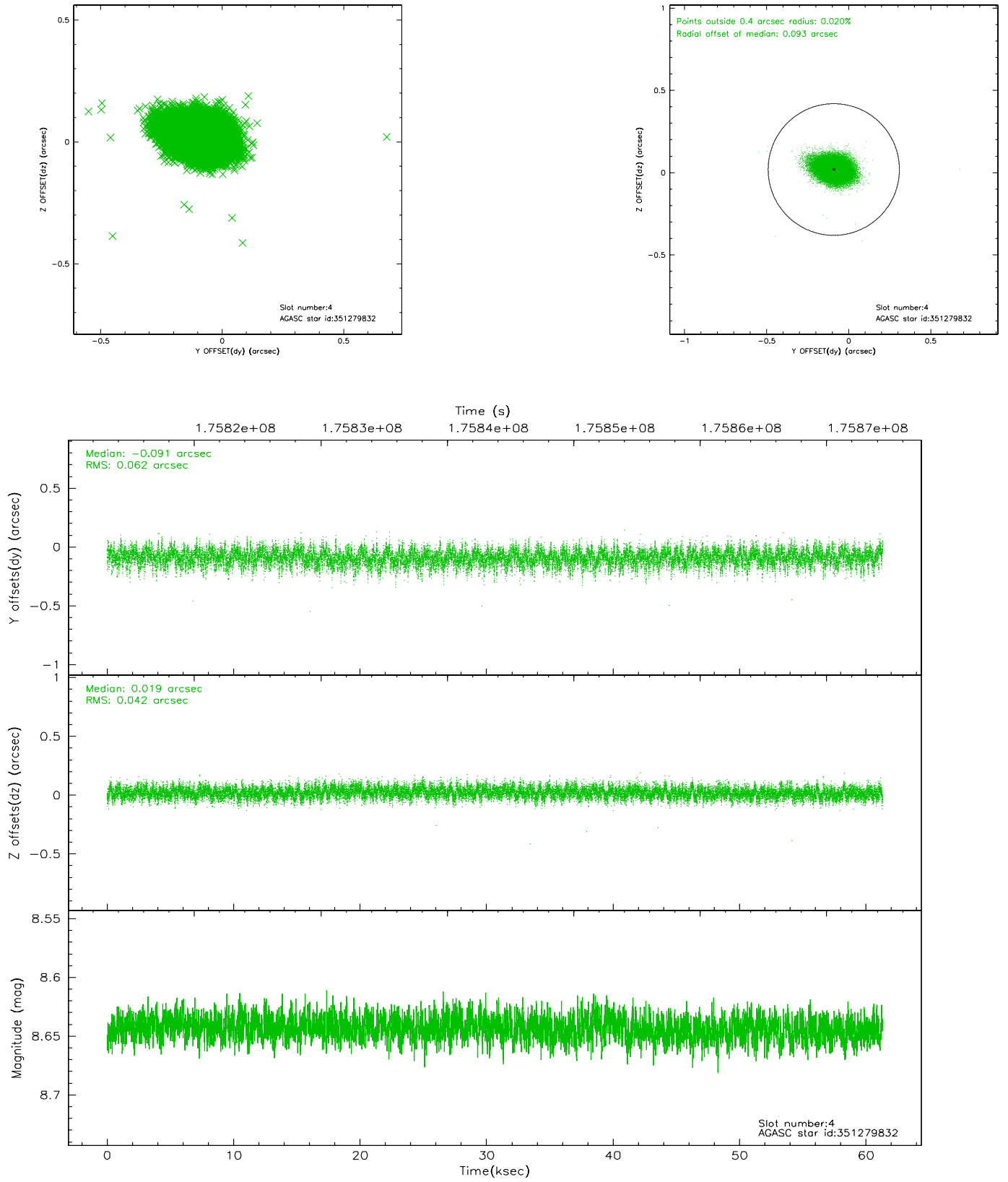
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 14954 | -0.015 | -0.012 | 0.010 | 0.026 | 0.000000 | 0.000000 | -758.80 | -1729.03 |
| 1 | FID | ACIS-S-4 | 7.21 | 14953 | 0.004 | 0.010 | 0.009 | 0.036 | 0.000000 | 0.000000 | 2154.55 | 179.49 |
| 2 | FID | ACIS-S-5 | 7.23 | 14955 | -0.021 | 0.011 | 0.010 | 0.022 | 0.000000 | 0.000000 | -1811.68 | 173.16 |
| 3 | GUIDE | 351275512 | 9.56 | 29880 | -0.066 | 0.043 | 0.103 | 0.167 | 305.981339 | 34.404894 | 87.28 | -1881.05 |
| 4 | GUIDE | 351279832 | 8.64 | 29896 | -0.091 | 0.019 | 0.078 | 0.130 | 305.274374 | 34.407915 | 2185.28 | -1970.92 |
| 5 | GUIDE | 352454632 | 9.41 | 29897 | 0.015 | -0.025 | 0.117 | 0.184 | 306.795323 | 33.413316 | -2236.02 | 1760.15 |
| 6 | GUIDE | 351282120 | 9.29 | 29900 | -0.042 | -0.006 | 0.095 | 0.153 | 305.232648 | 33.763598 | 2405.12 | 342.24 |
| 7 | GUIDE | 352981624 | 8.60 | 29902 | 0.187 | -0.026 | 0.090 | 0.145 | 306.081516 | 34.222239 | -188.00 | -1213.90 |

2.4 Star Slots

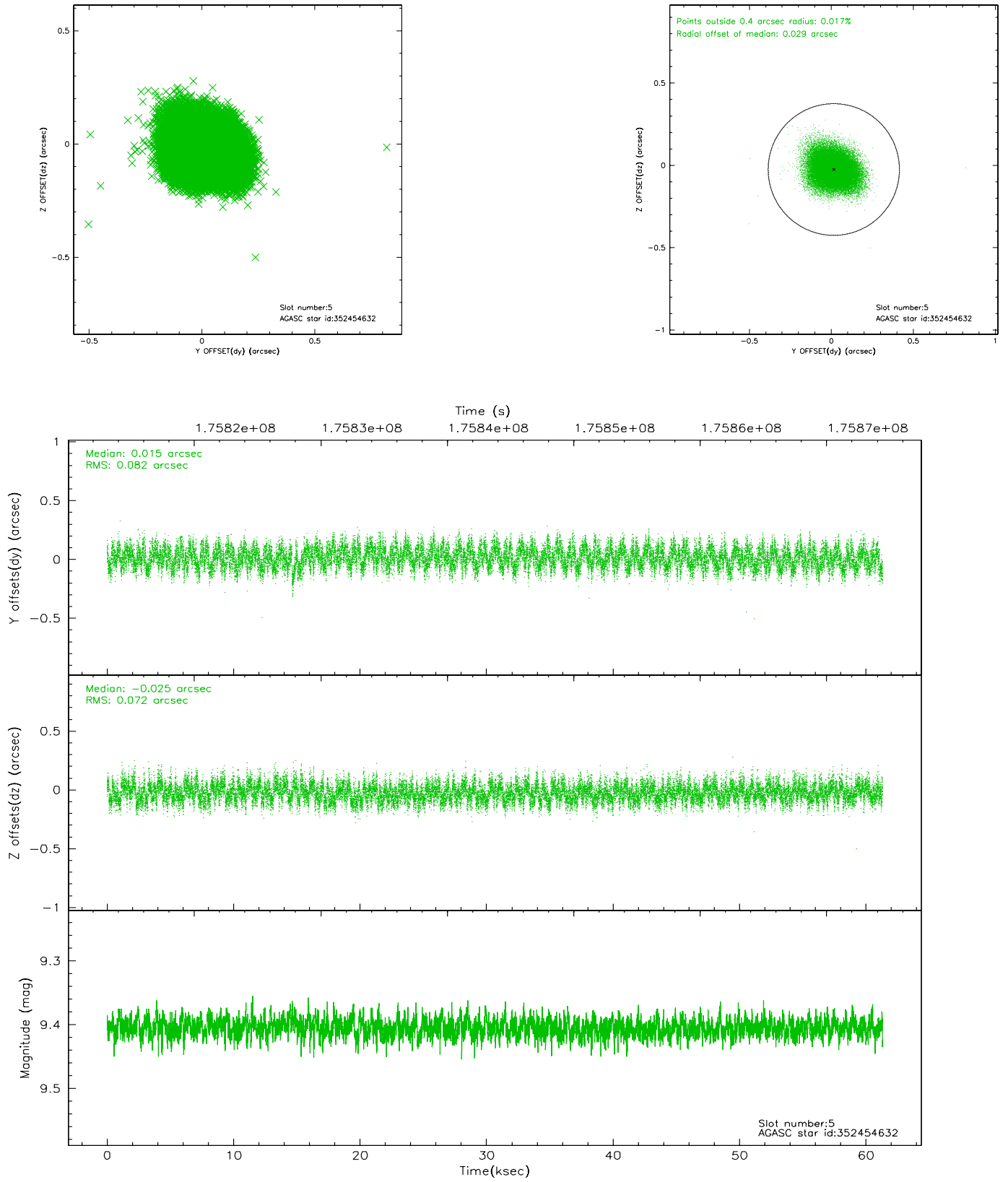
2.4.1 Slot 3



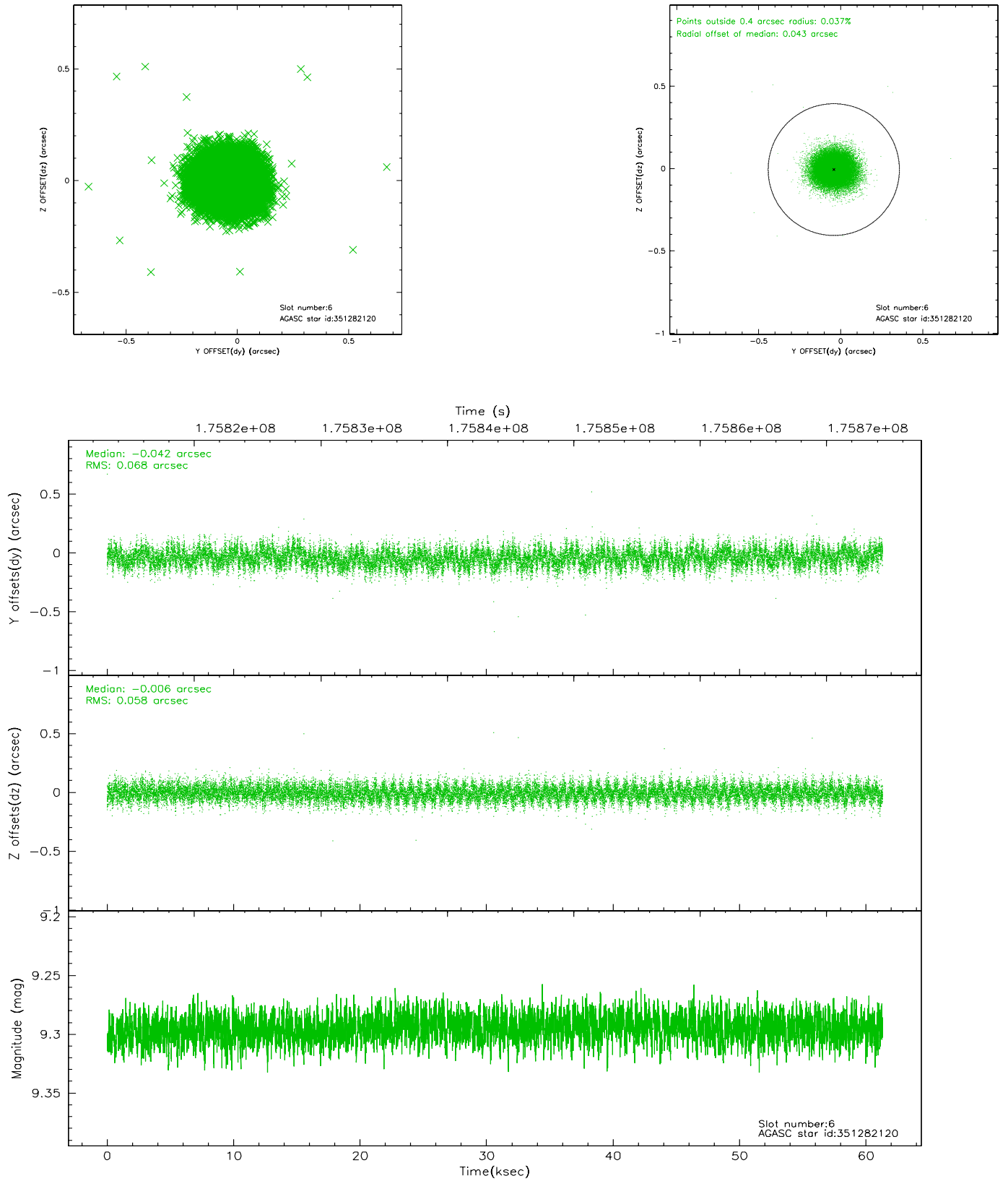
2.4.2 Slot 4



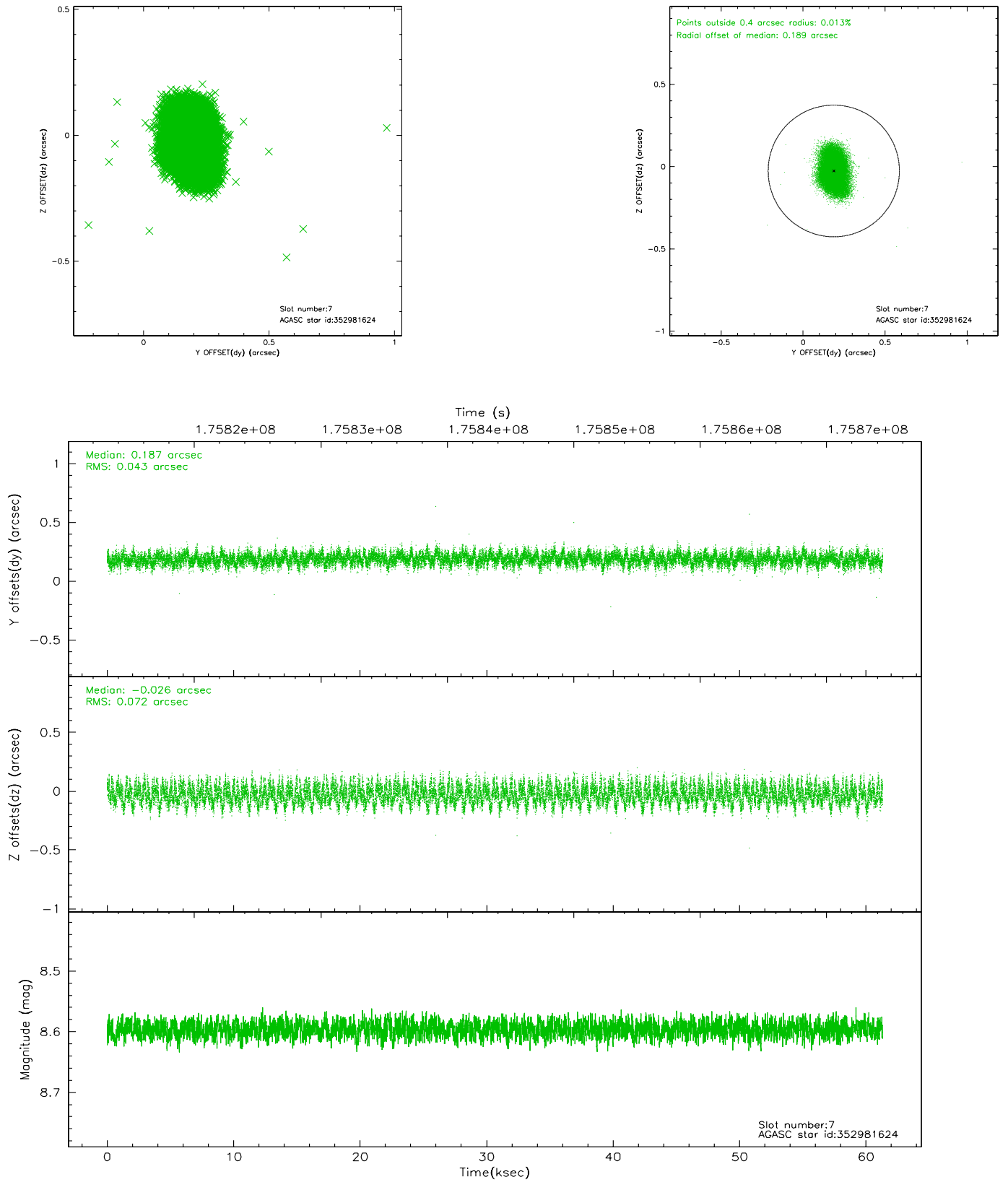
2.4.3 Slot 5



2.4.4 Slot 6

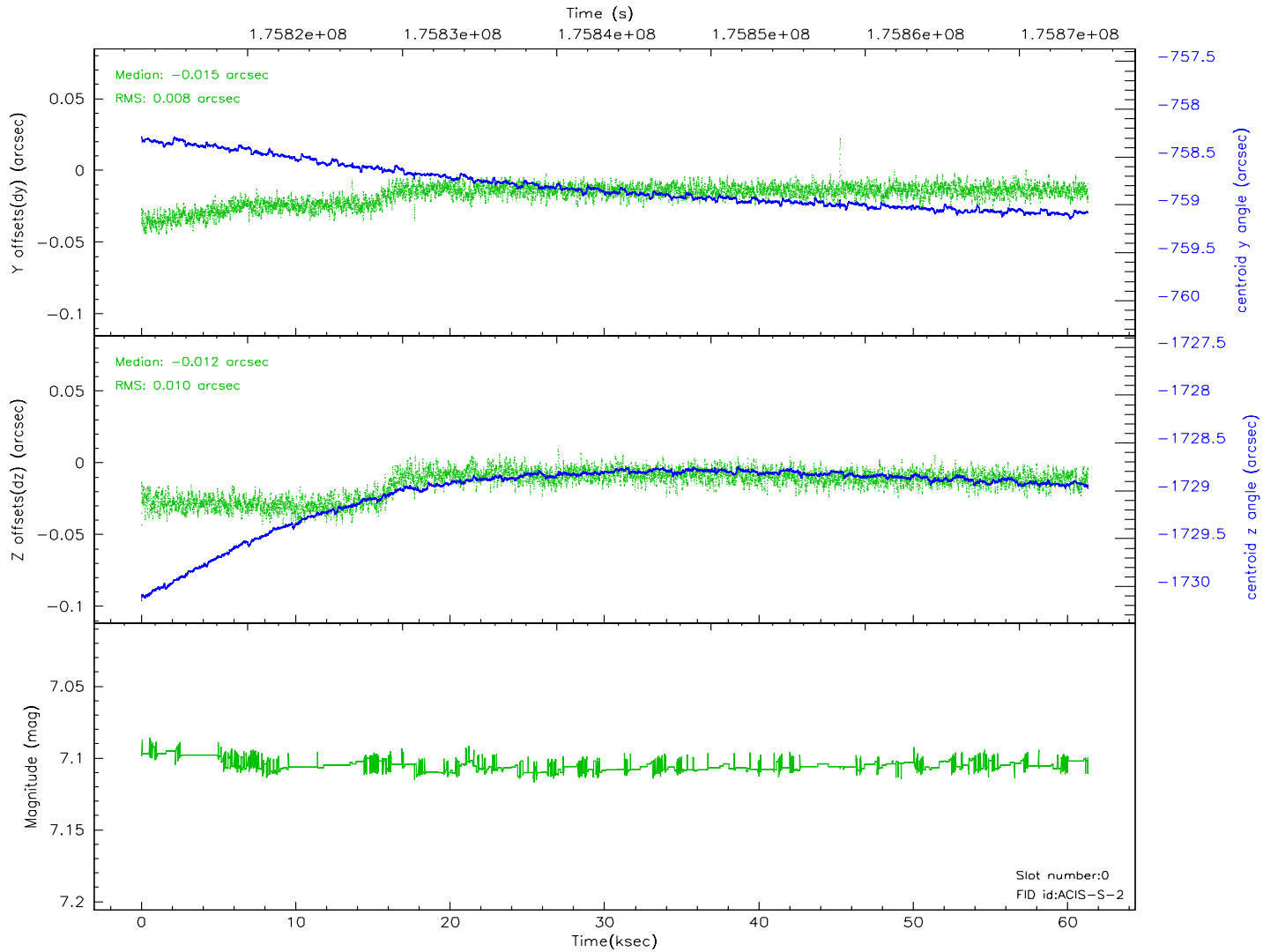
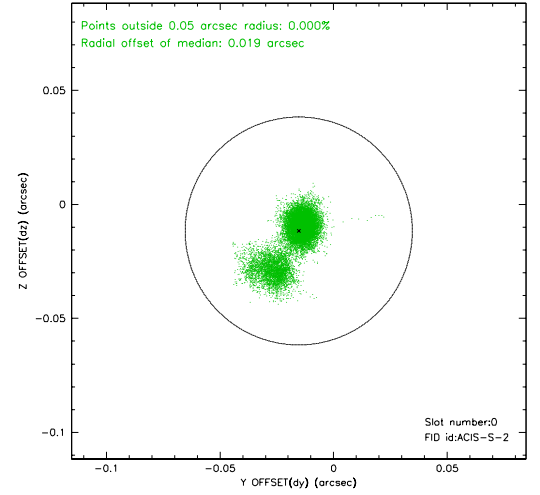
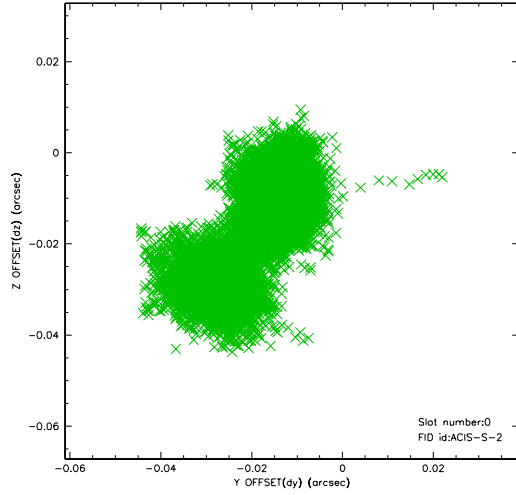


2.4.5 Slot 7

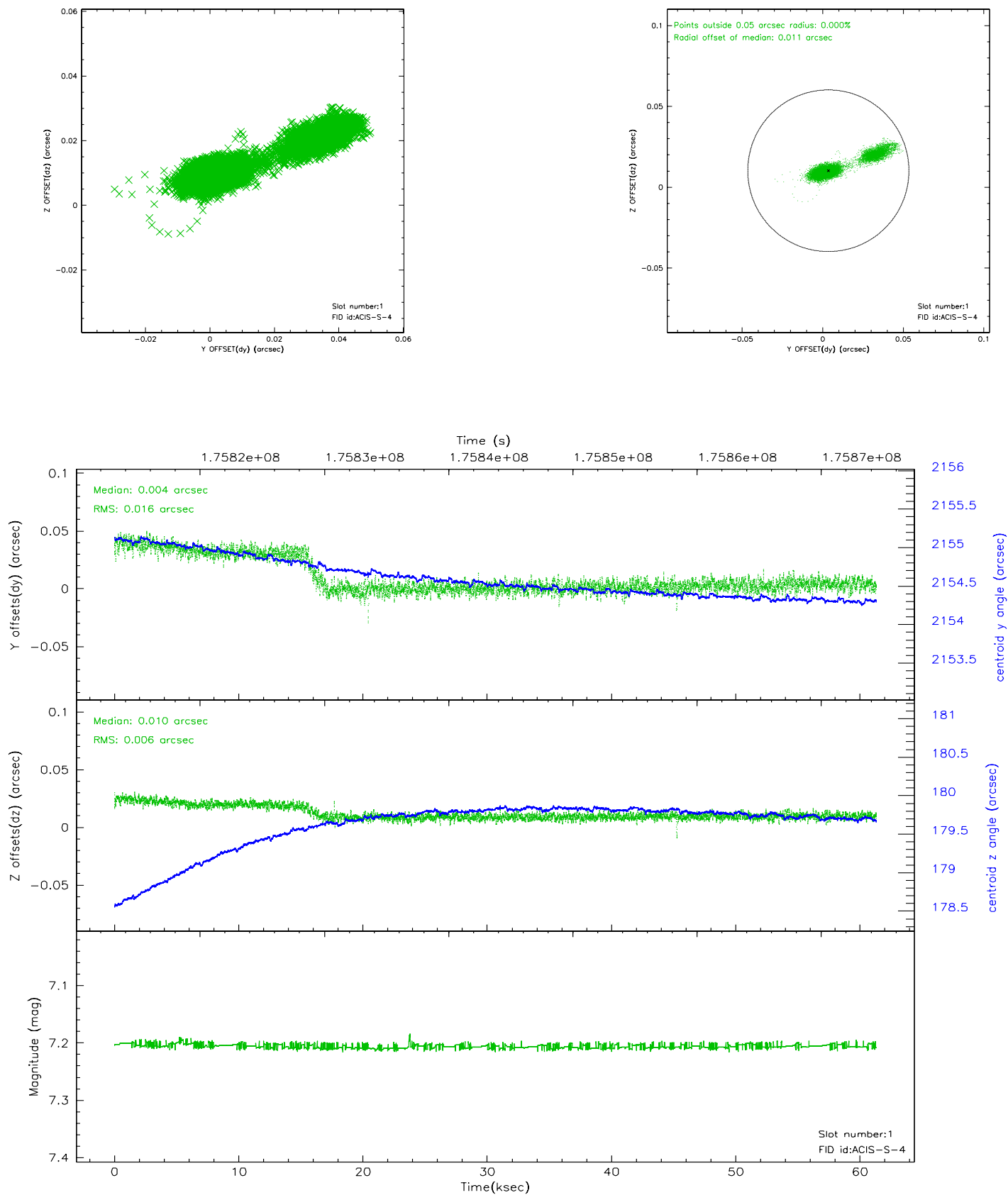


2.5 FID Slots

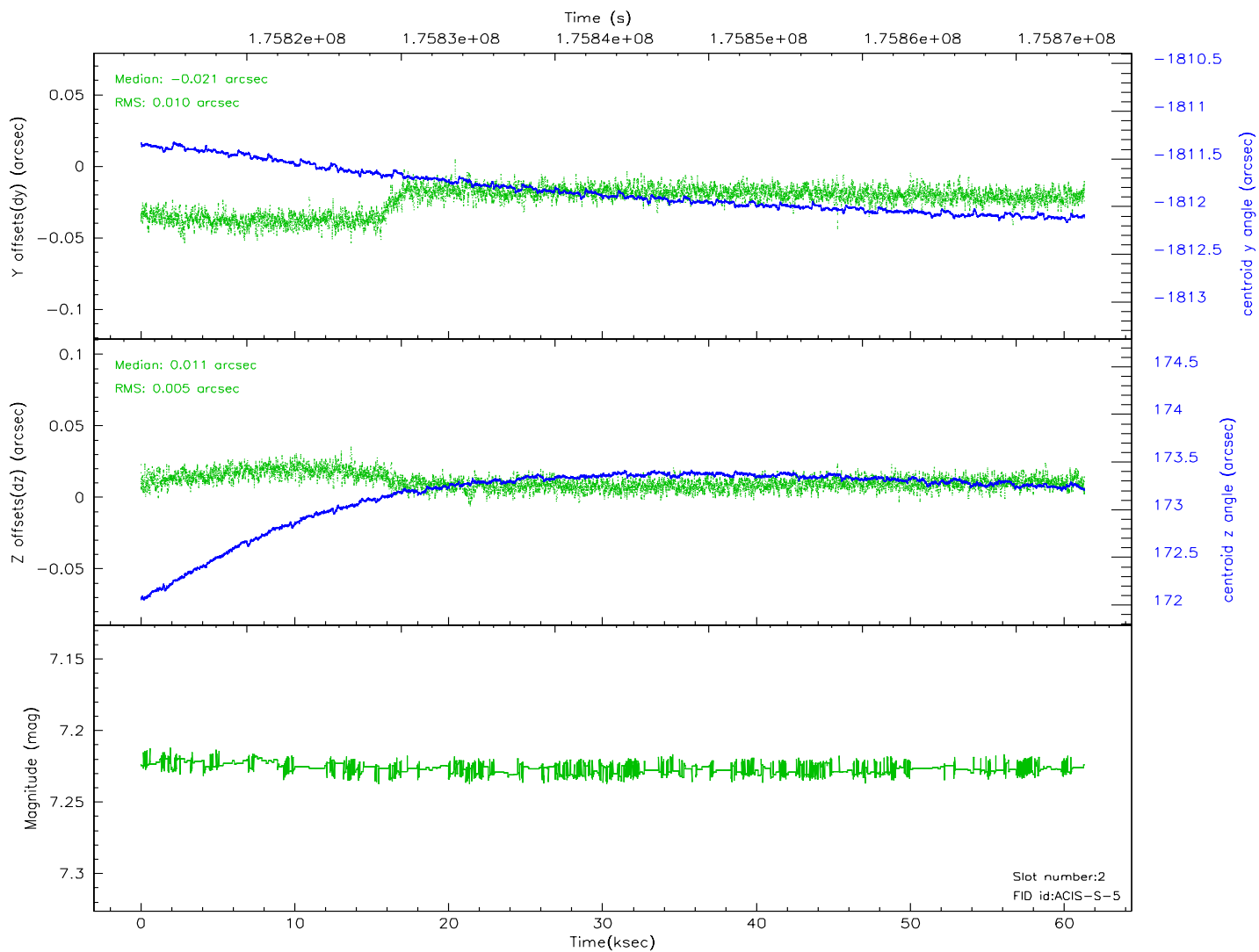
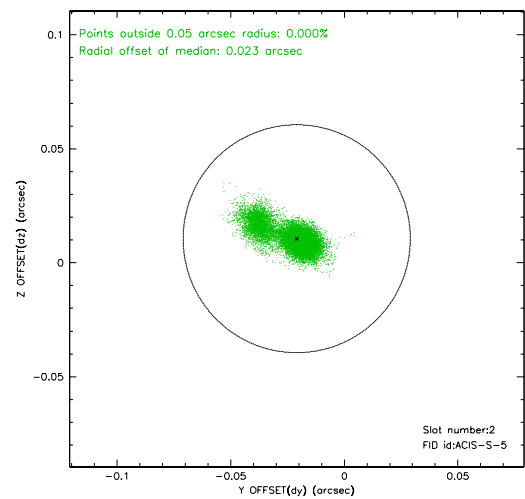
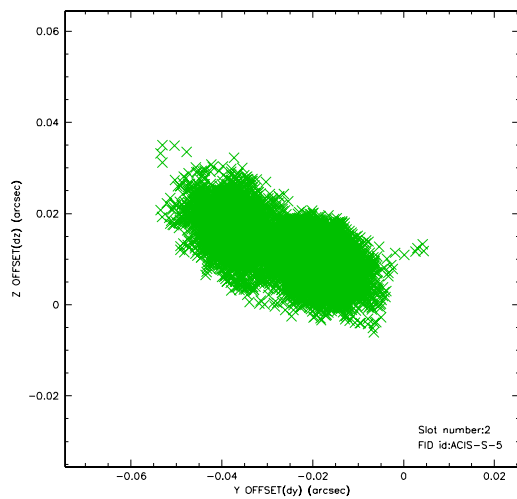
2.5.1 Slot 0



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) | 2006.07.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 61.314 |

A.2 Comments

window constraint starts slightly early of request (~16 min for start), but deemed acceptable.