

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3969 - L2 Version 001
Chandra X-Ray Center

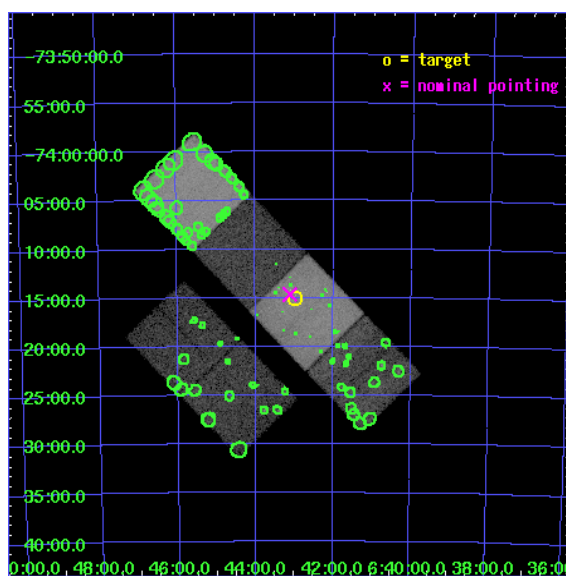
L2 Processing Date : Jun 28 2006

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

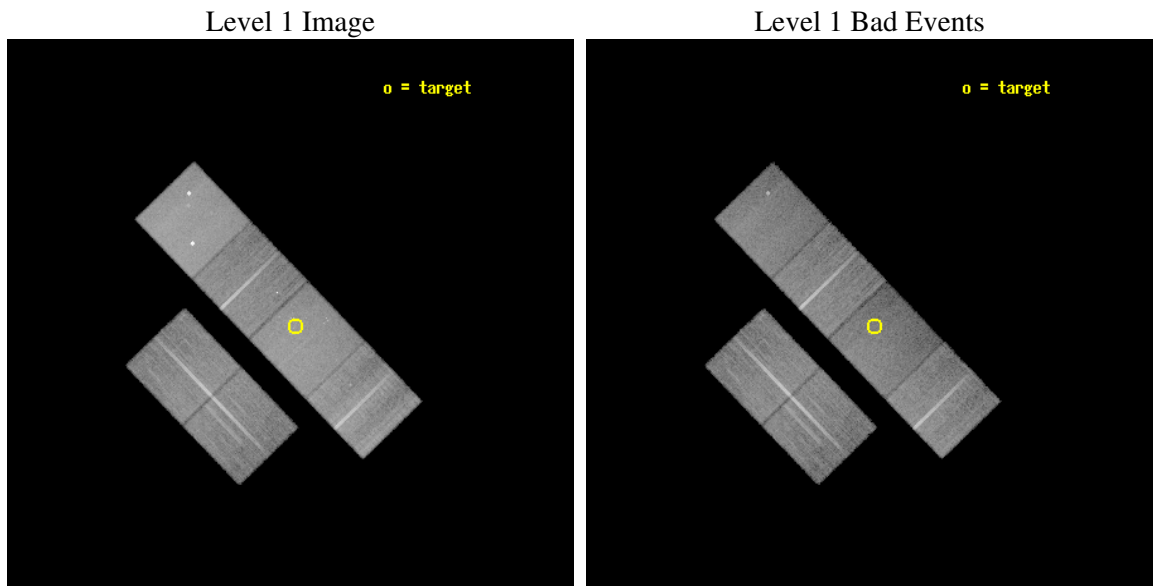
| | |
|----------|---|
| seq_num | 700648 |
| obs_id | 3969 |
| title | X-RAY STRUCTURE OF THE ``BLOW-OUT" GAS IN TWO COLLISIONAL RING GALAXIES |
| observer | Dr. John Wallin |
| object | AM0644-741 SW RING |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 100.75 |
| dec_targ | -74.25 |
| ra_nom | 100.77876382786 |
| dec_nom | -74.244345764187 |
| roll_nom | 46.029361355143 |
| revision | 2 |
| ontime | 39967.999851108 |
| livetime | 39461.900971153 |
| ontime2 | 39964.758860946 |
| ontime3 | 39964.758880824 |
| ontime5 | 39967.999851108 |
| ontime6 | 39967.999851108 |
| ontime7 | 39967.999851108 |
| ontime8 | 39964.758890867 |
| l2events | 307390 |



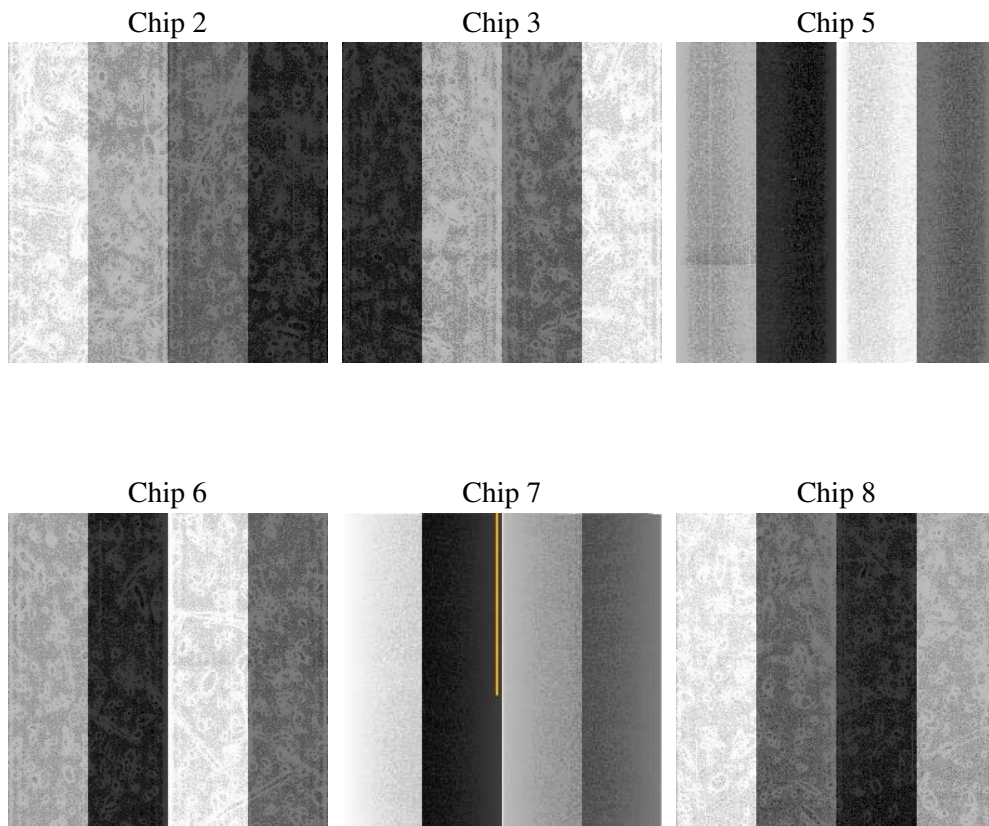
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8 |
| caldsver | 3.2.2 |
| date | 2006-06-28T02:37:45 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 40000.000000 |
| ontime | 39971.267342627 |
| ontime2 | 39968.026322544 |
| ontime3 | 39968.026372343 |
| ontime5 | 39971.267342627 |
| ontime6 | 39971.267342627 |
| ontime7 | 39971.267342627 |
| ontime8 | 39968.026382387 |
| l1events | 1218204 |

2.1.4 Events

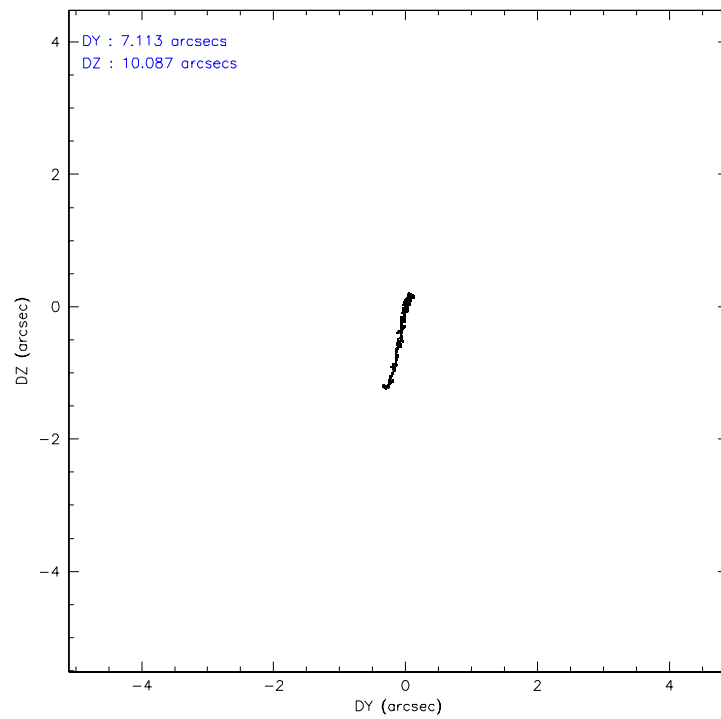
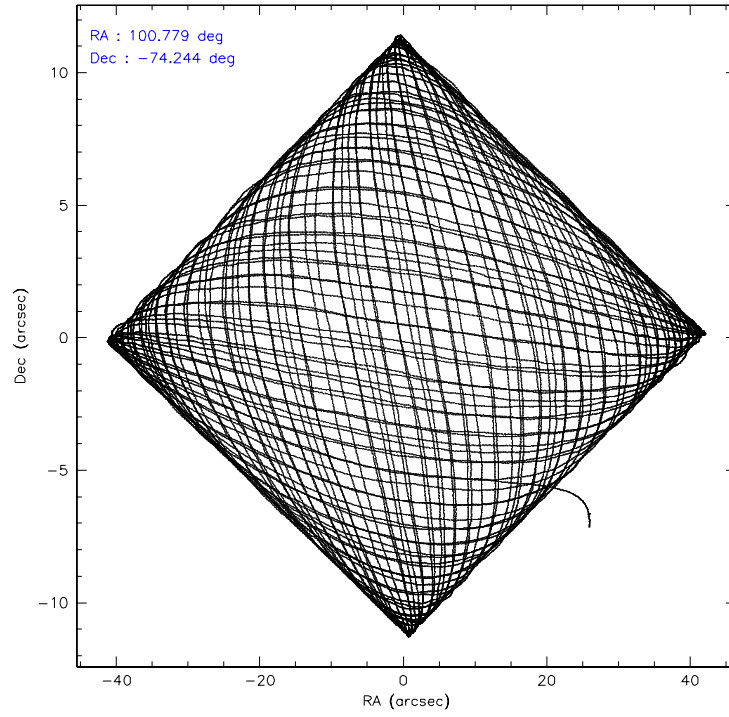
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 178888 | 164389 | 262669 | 174356 | 220249 | 217653 |
| rejected events | 159894 | 146216 | 123918 | 152301 | 112653 | 157036 |
| rejected % | 89% | 88% | 47% | 87% | 51% | 72% |

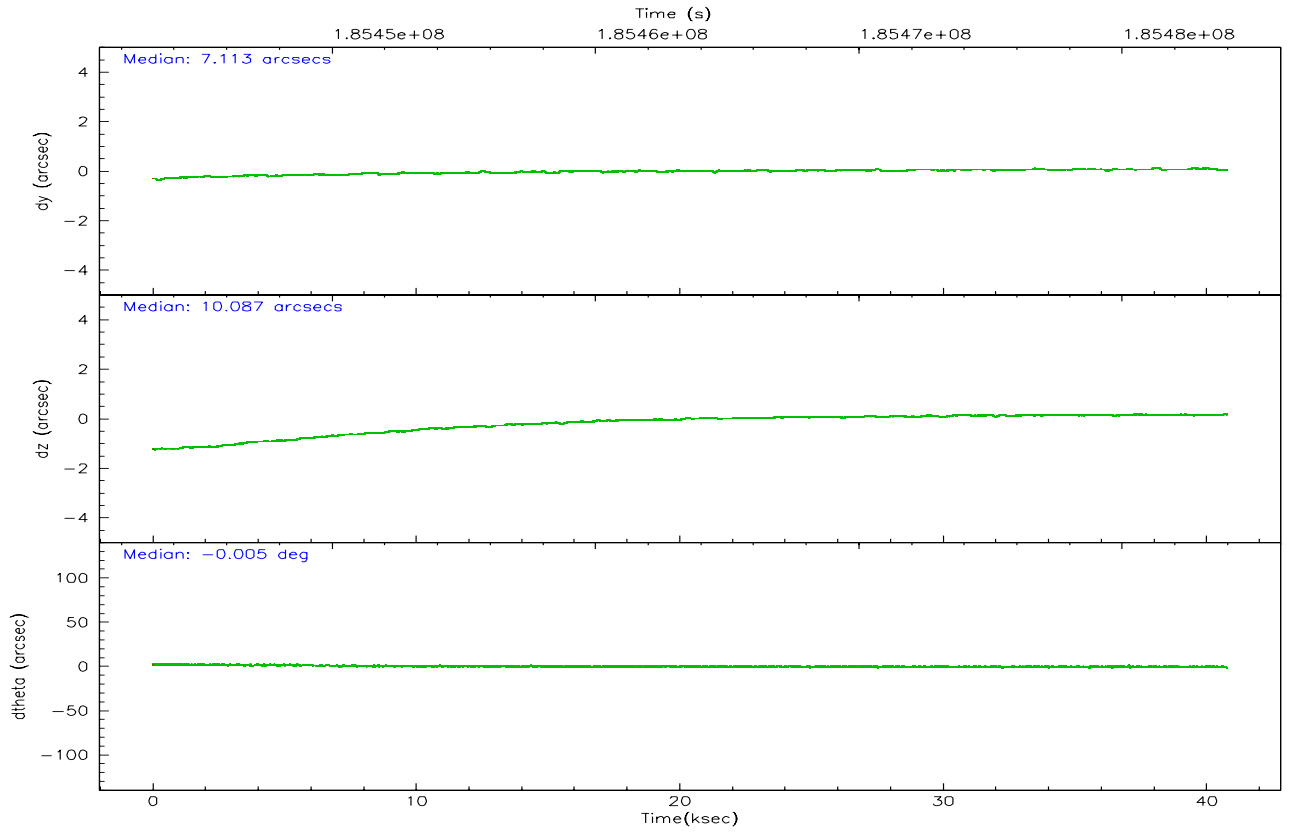
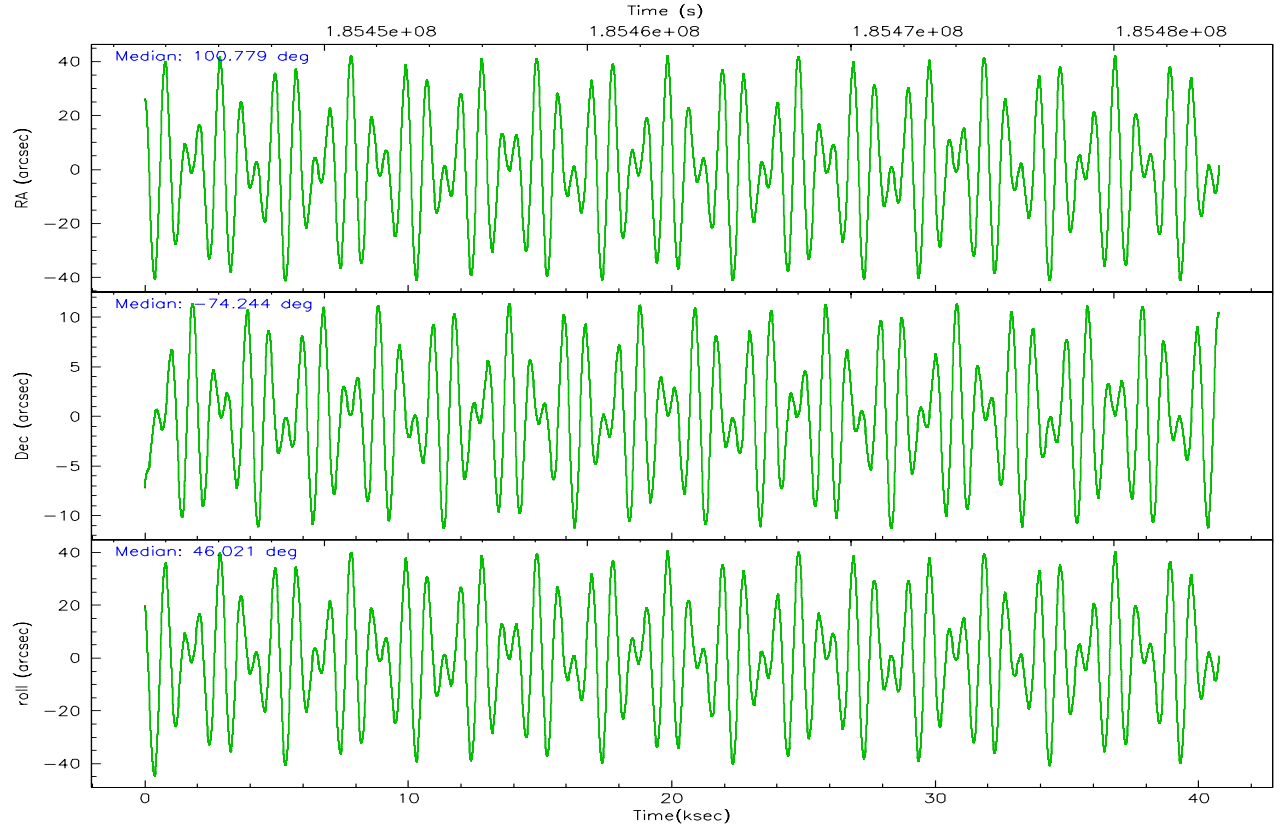
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|--------|-------|--------|
| grade 0 events | 7654 | 7346 | 15899 | 9772 | 8033 | 22459 |
| | 4% | 4% | 6% | 5% | 3% | 10% |
| grade 1 events | 92 | 83 | 885 | 54 | 98 | 186 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 4195 | 3576 | 42046 | 4253 | 25295 | 11495 |
| | 2% | 2% | 16% | 2% | 11% | 5% |
| grade 3 events | 1977 | 1901 | 4045 | 2054 | 6601 | 6926 |
| | 1% | 1% | 1% | 1% | 2% | 3% |
| grade 4 events | 1949 | 1965 | 3956 | 2035 | 6437 | 6508 |
| | 1% | 1% | 1% | 1% | 2% | 2% |
| grade 5 events | 5926 | 6819 | 12648 | 7015 | 14871 | 9566 |
| | 3% | 4% | 4% | 4% | 6% | 4% |
| grade 6 events | 3222 | 3388 | 72815 | 3942 | 61240 | 13257 |
| | 1% | 2% | 27% | 2% | 27% | 6% |
| grade 7 events | 153873 | 139311 | 110375 | 145231 | 97674 | 147256 |
| | 86% | 84% | 42% | 83% | 44% | 67% |

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 | 100.755902 | 100.7787638278576 | Alternating exposures requested | N | N |
| Pointing Dec | -74.270837 | -74.2443457641866 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 45.850726 | 46.02936135514328 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1425803651734 | | | |
| SIM translation stage offset (mm) | 0 | 0.01005778216563158 | | | |
| Observation start time | 185443982.184000 | 185442727.66794 | | | |
| Observation start date | 2003-11-17T08:11:58 | 2003-11-17T07:52:07 | | | |
| Observation end time | 185483982.184000 | 185484897.19476 | | | |
| Observation end date | 2003-11-17T19:18:38 | 2003-11-17T19:34:57 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



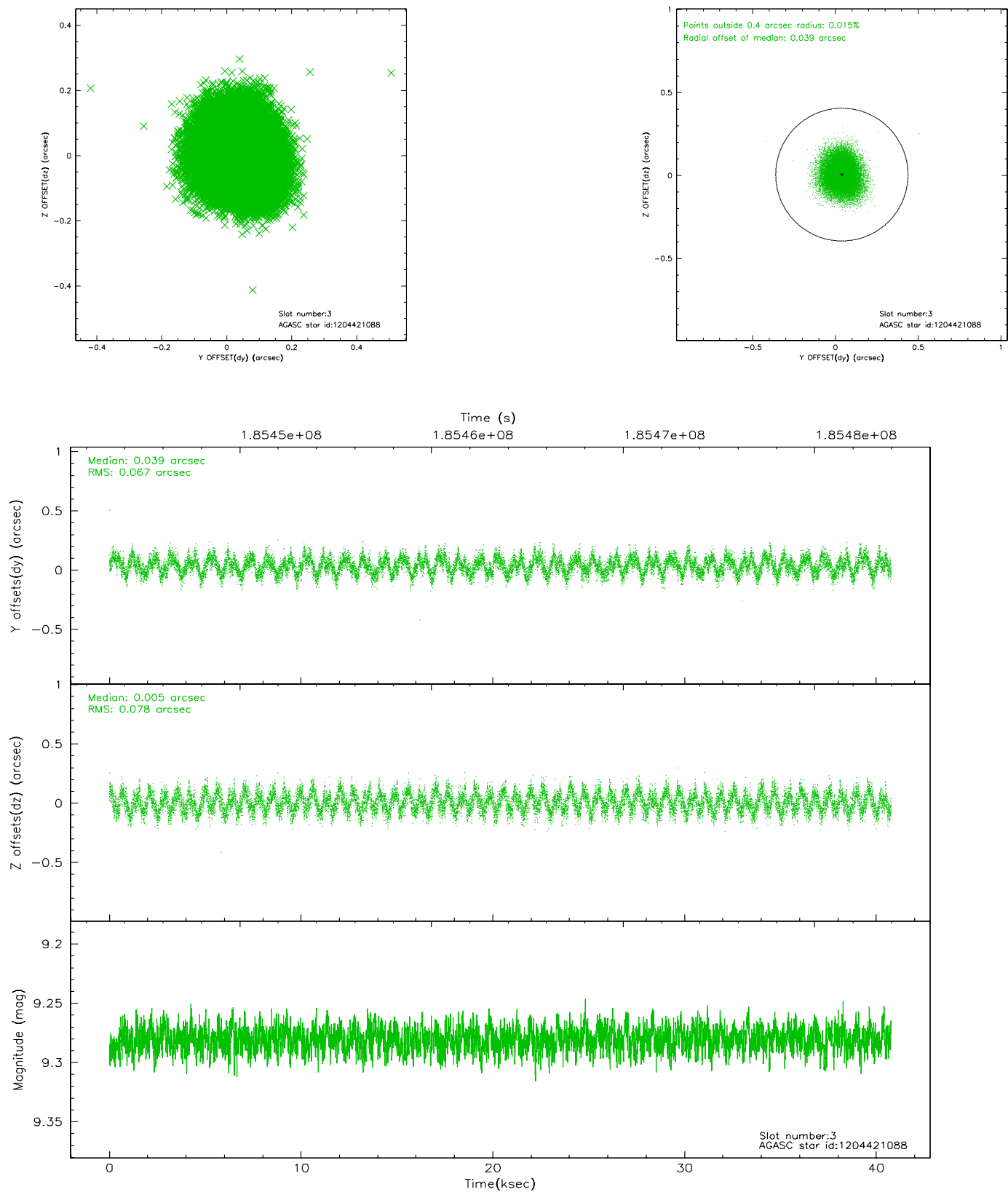


Slot Statistics

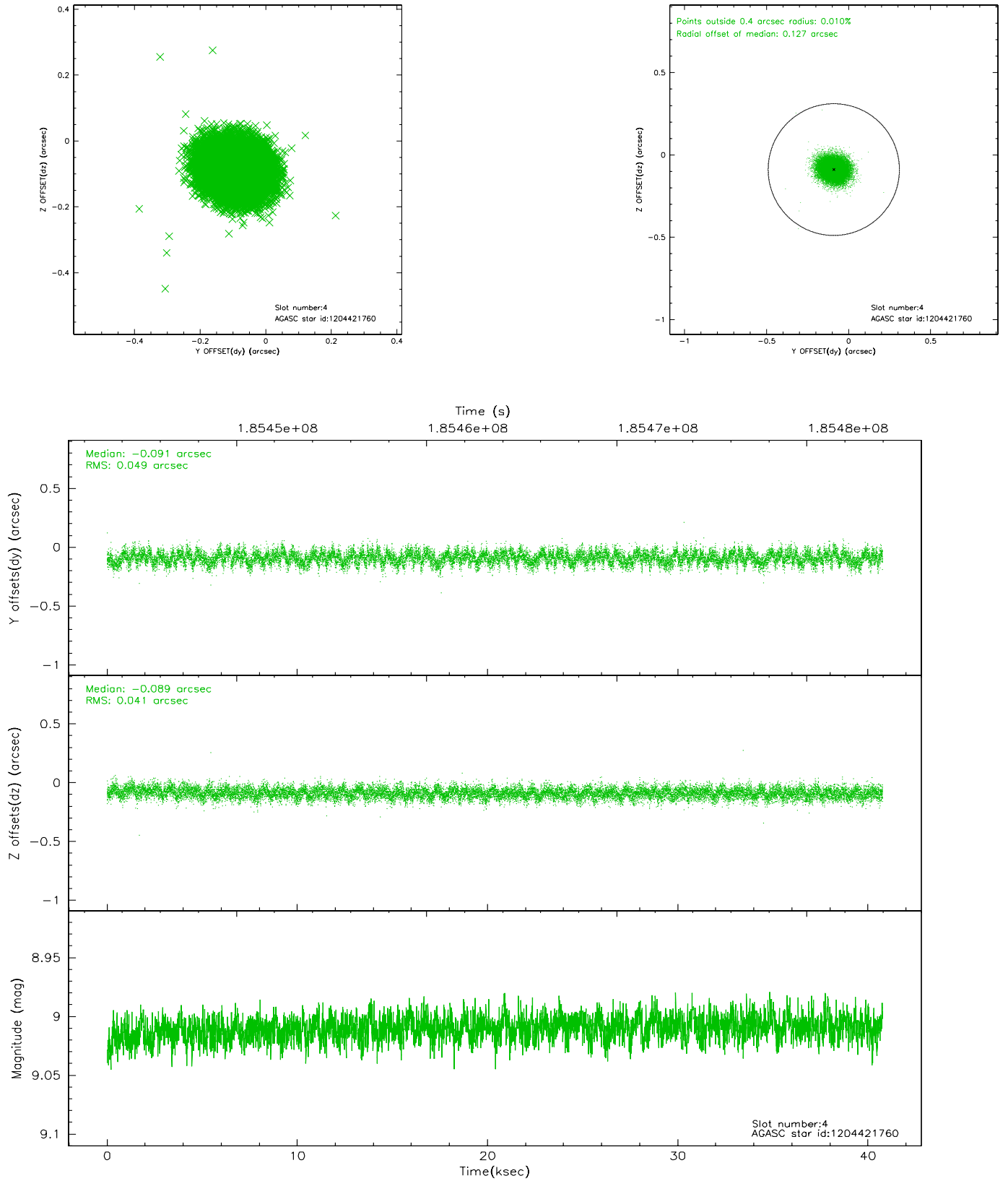
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 9945 | -0.021 | 0.001 | 0.007 | 0.017 | 0.000000 | 0.000000 | -759.84 | -1731.09 |
| 1 | FID | ACIS-S-4 | 7.20 | 9945 | 0.019 | 0.013 | 0.007 | 0.014 | 0.000000 | 0.000000 | 2153.45 | 177.44 |
| 2 | FID | ACIS-S-6 | 7.34 | 9944 | -0.025 | -0.007 | 0.008 | 0.015 | 0.000000 | 0.000000 | 402.12 | 814.80 |
| 3 | GUIDE | 1204421088 | 9.28 | 19882 | 0.039 | 0.005 | 0.112 | 0.169 | 101.693982 | -74.566732 | -142.80 | -1391.45 |
| 4 | GUIDE | 1204421760 | 9.01 | 19885 | -0.091 | -0.089 | 0.068 | 0.109 | 99.371684 | -74.305857 | -1040.32 | 868.36 |
| 5 | GUIDE | 1204426280 | 9.34 | 19874 | 0.095 | -0.021 | 0.086 | 0.139 | 101.163065 | -74.418376 | -107.29 | -653.04 |
| 6 | GUIDE | 1204555584 | 8.92 | 19887 | -0.068 | 0.029 | 0.070 | 0.113 | 102.419004 | -74.557295 | 355.14 | -1877.05 |
| 7 | GUIDE | 1204423736 | 8.78 | 19883 | 0.029 | 0.075 | 0.066 | 0.106 | 99.272017 | -74.796122 | -2344.61 | -324.28 |

2.4 Star Slots

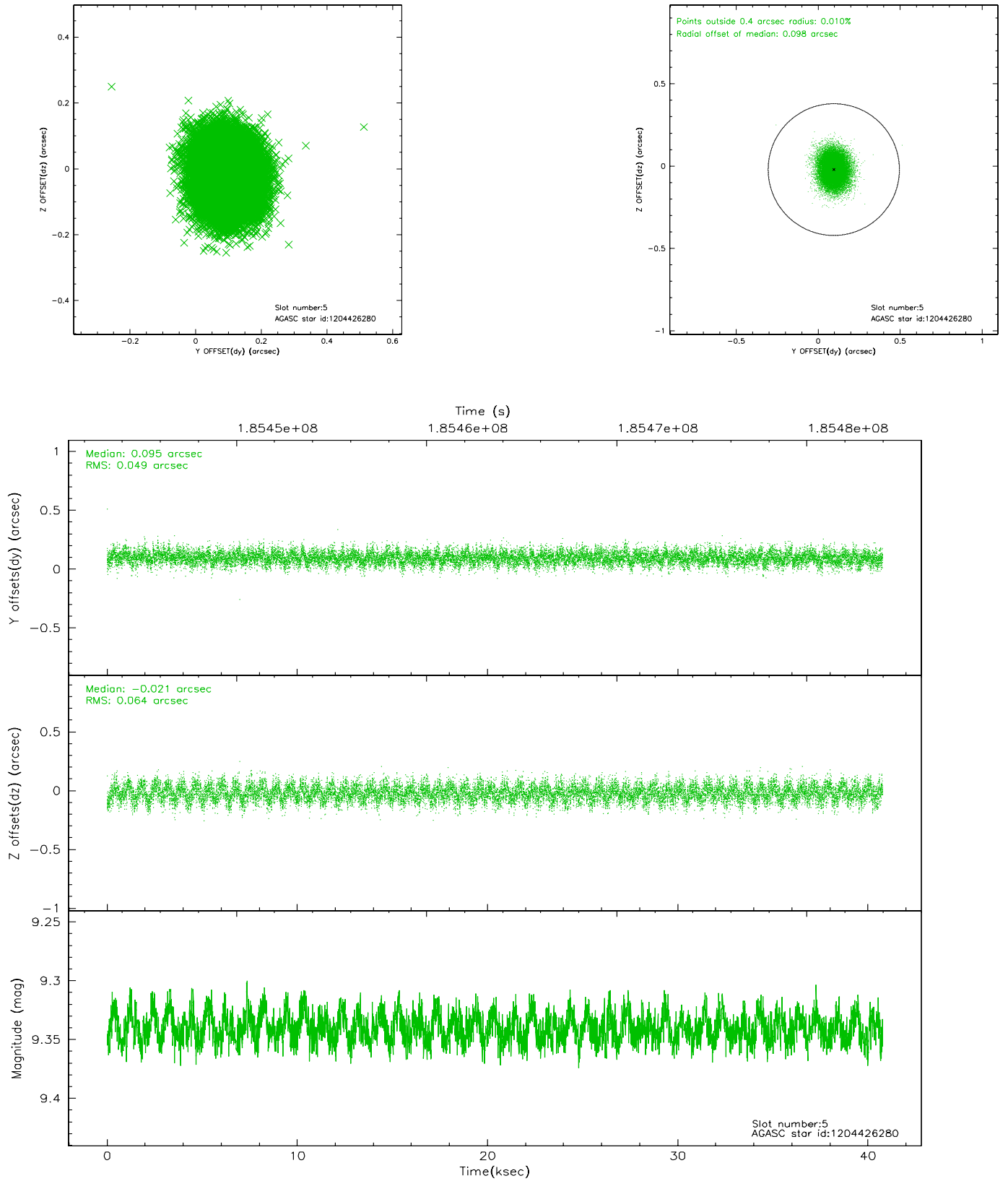
2.4.1 Slot 3



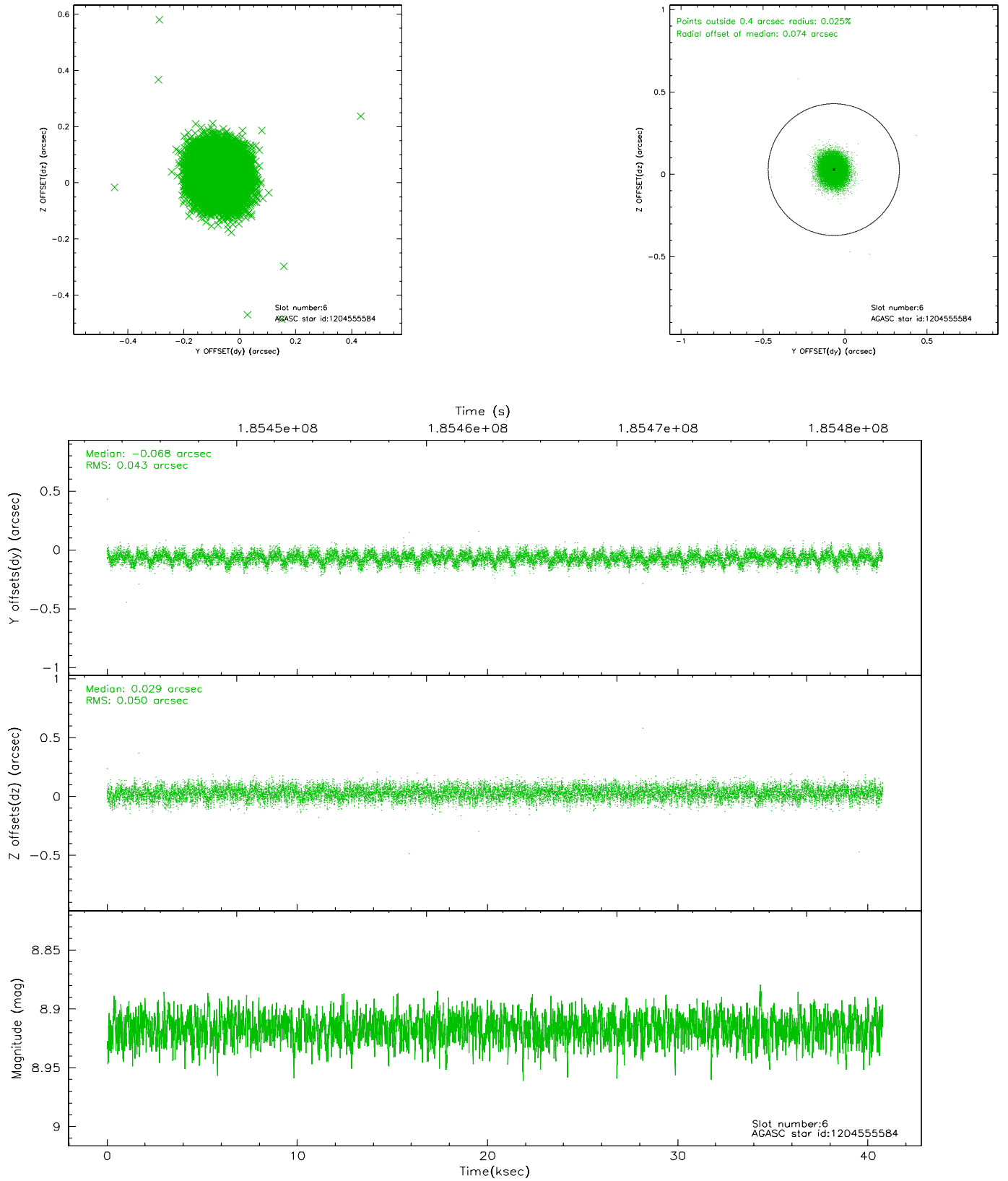
2.4.2 Slot 4



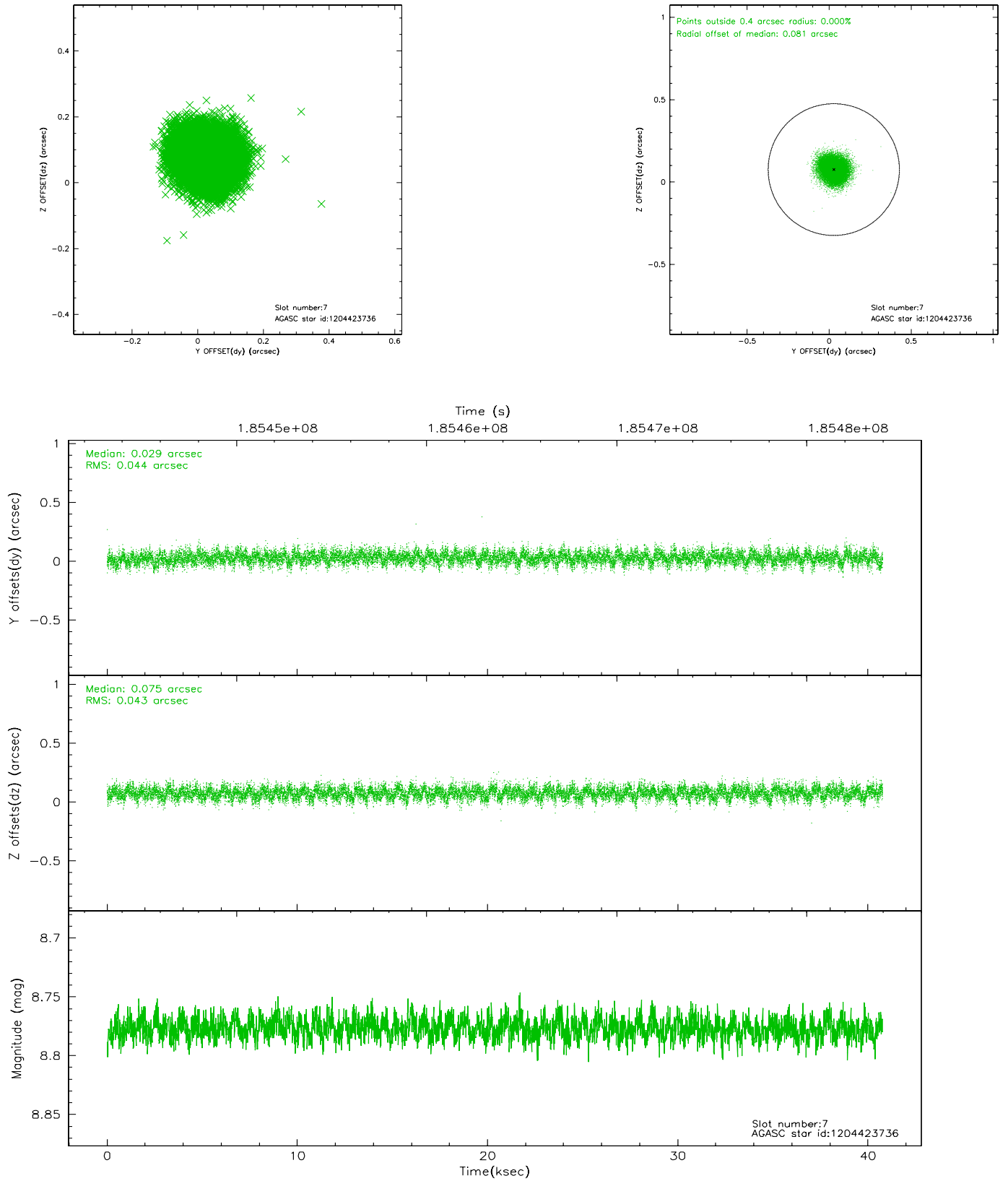
2.4.3 Slot 5



2.4.4 Slot 6

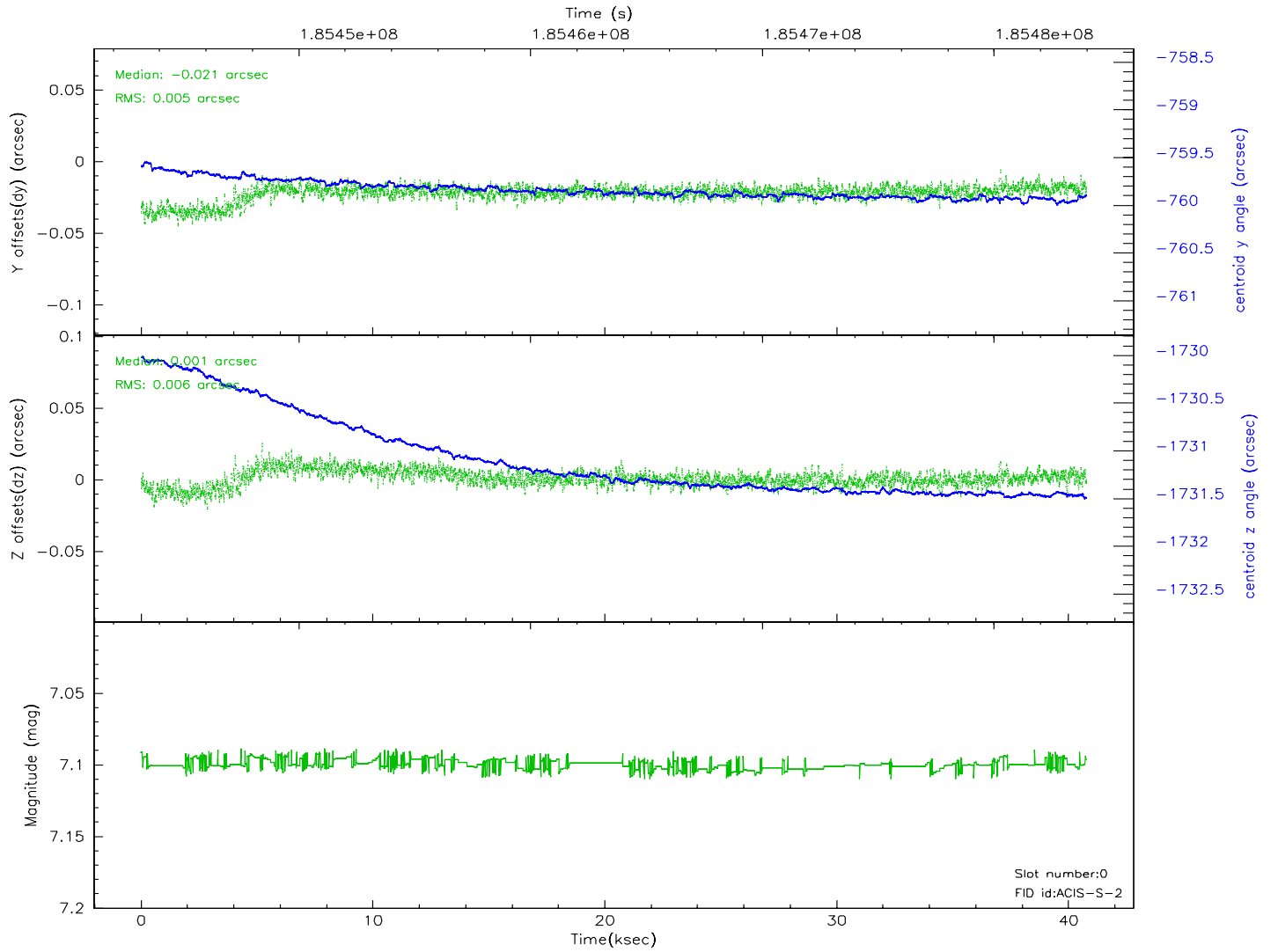
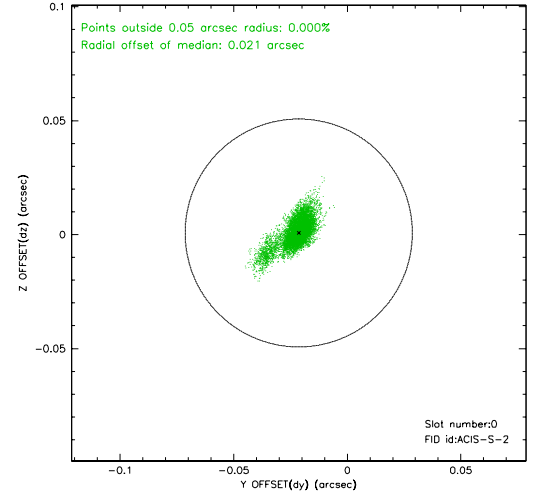
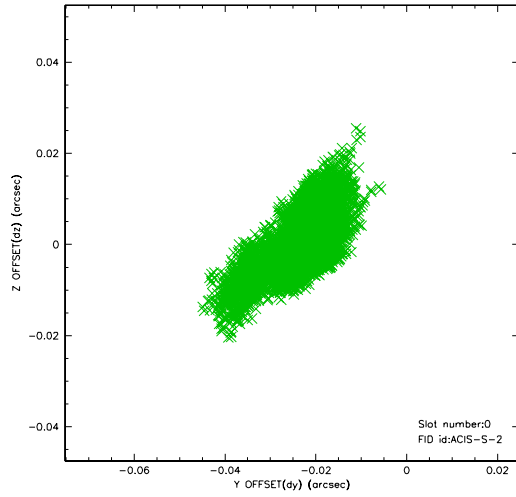


2.4.5 Slot 7

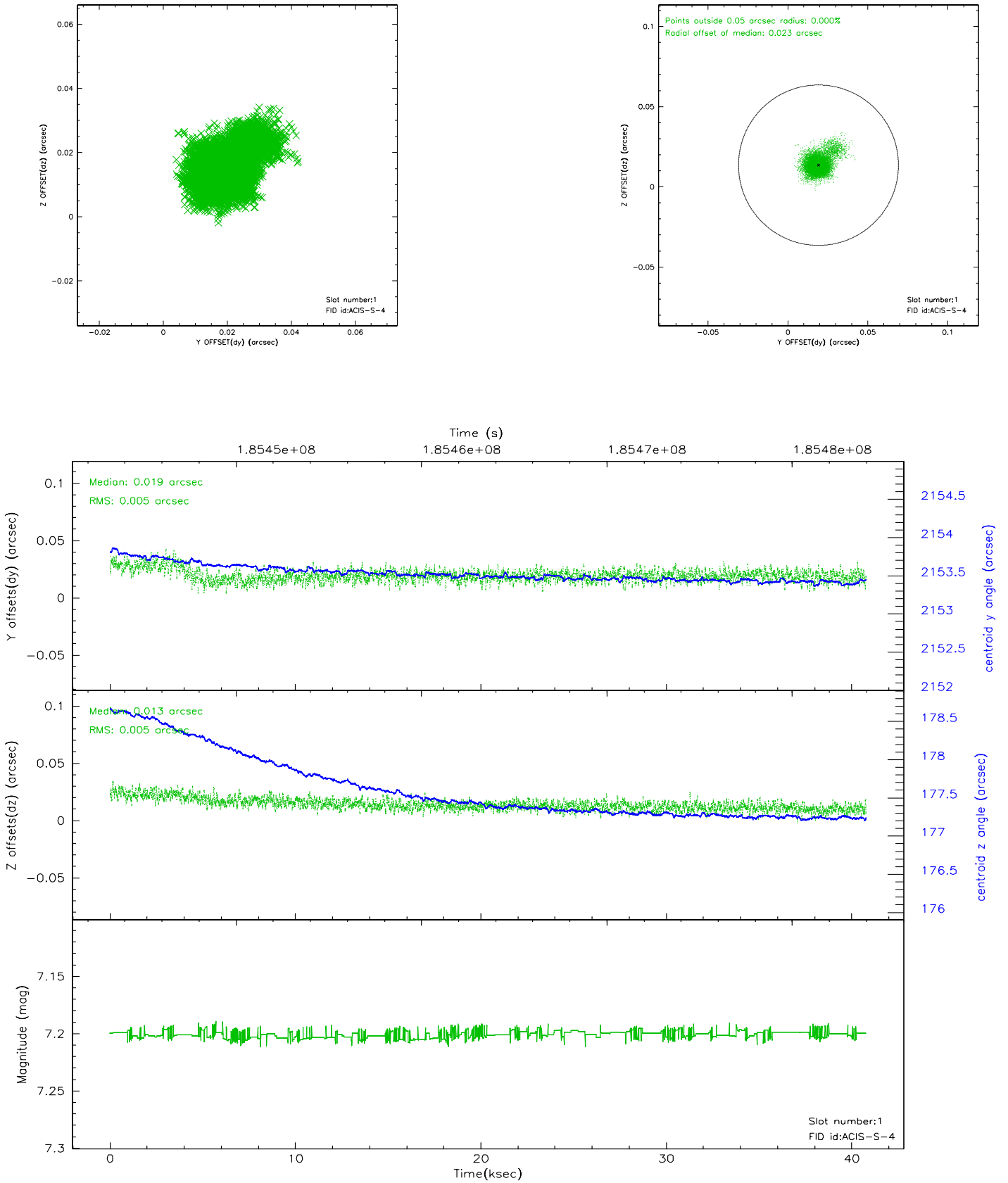


2.5 FID Slots

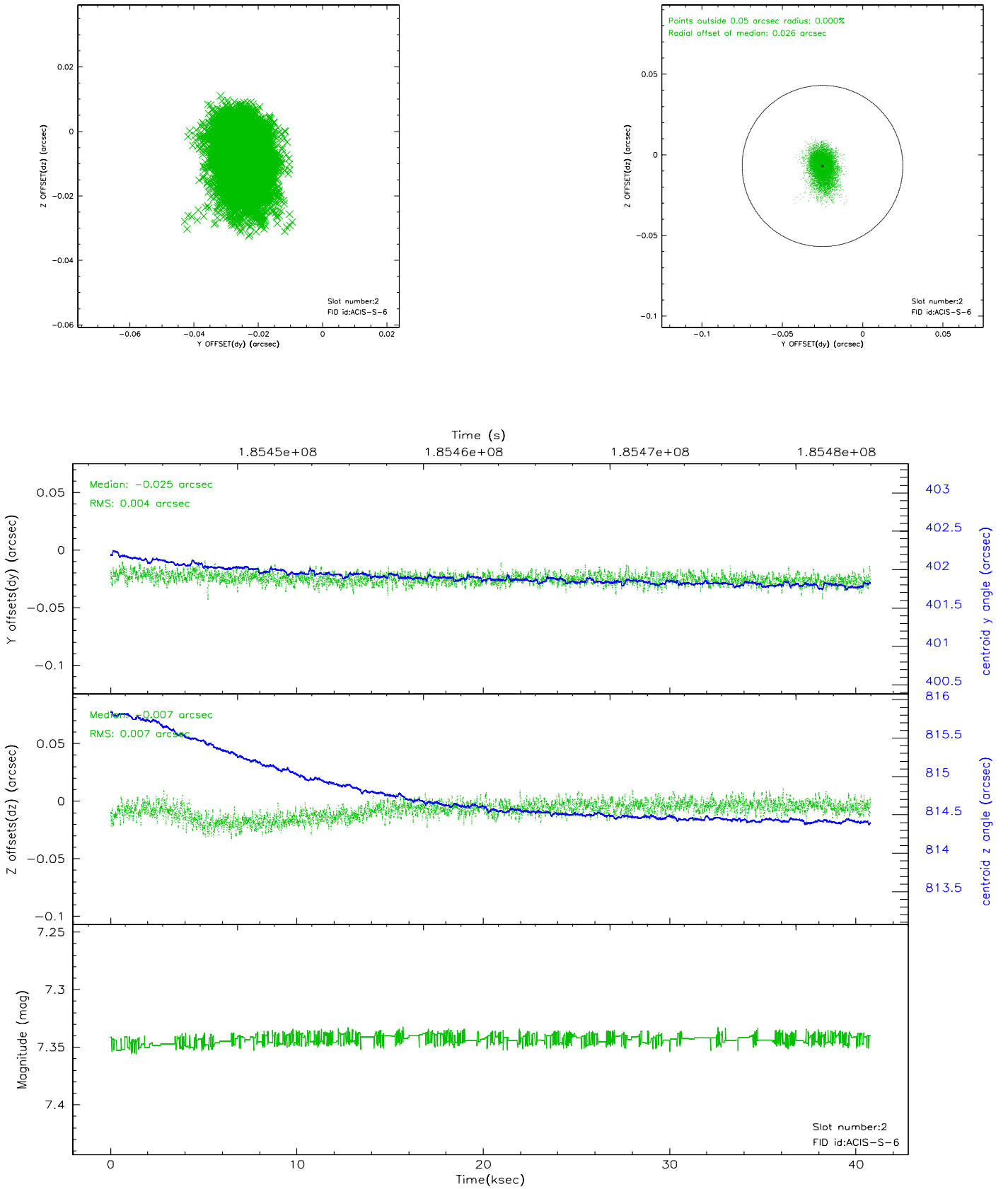
2.5.1 Slot 0



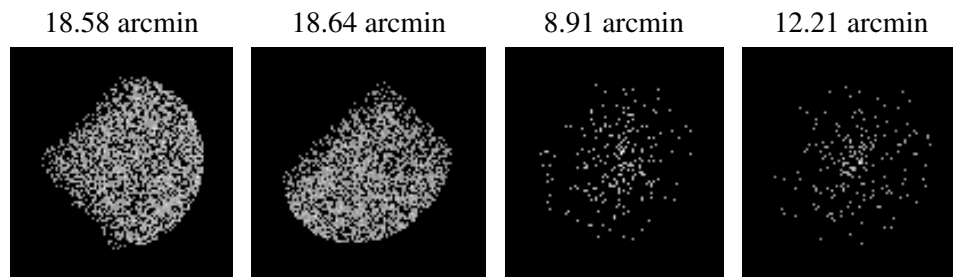
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.06.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 39.967 |

A.2 Comments