

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3642 - L2 Version 001
Chandra X-Ray Center

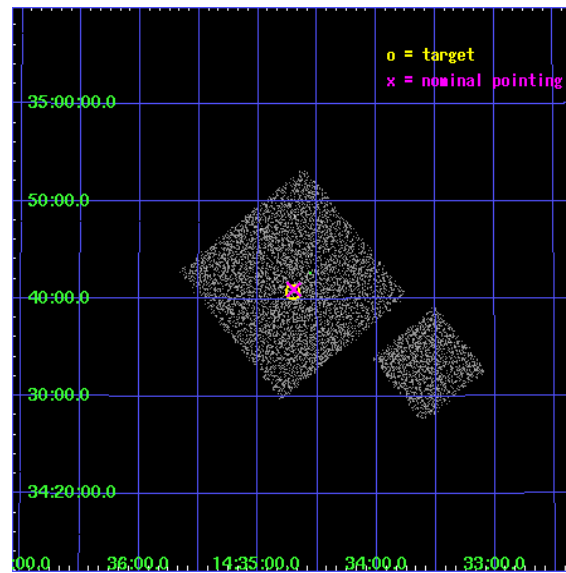
L2 Processing Date : Jul 29 2006

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

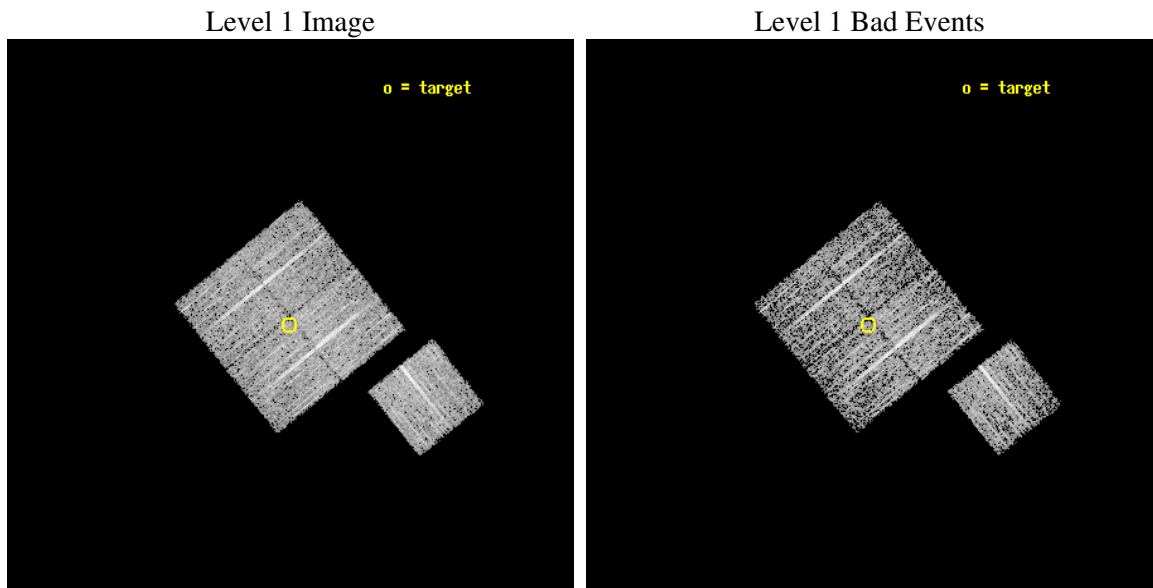
| | |
|----------|--|
| seq_num | 900242 |
| obs_id | 3642 |
| title | CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD |
| observer | Dr. Stephen Murray |
| object | NOAO FIELD F63 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 218.676831 |
| dec_targ | 34.679082 |
| ra_nom | 218.67425122503 |
| dec_nom | 34.683114798934 |
| roll_nom | 141.01034992265 |
| revision | 2 |
| ontime | 4777.0999908149 |
| livetime | 4714.6836625851 |
| ontime0 | 4777.0999908149 |
| ontime1 | 4777.0999908149 |
| ontime2 | 4777.0999908149 |
| ontime3 | 4777.0999908149 |
| ontime6 | 4777.0999908149 |
| l2events | 9459 |



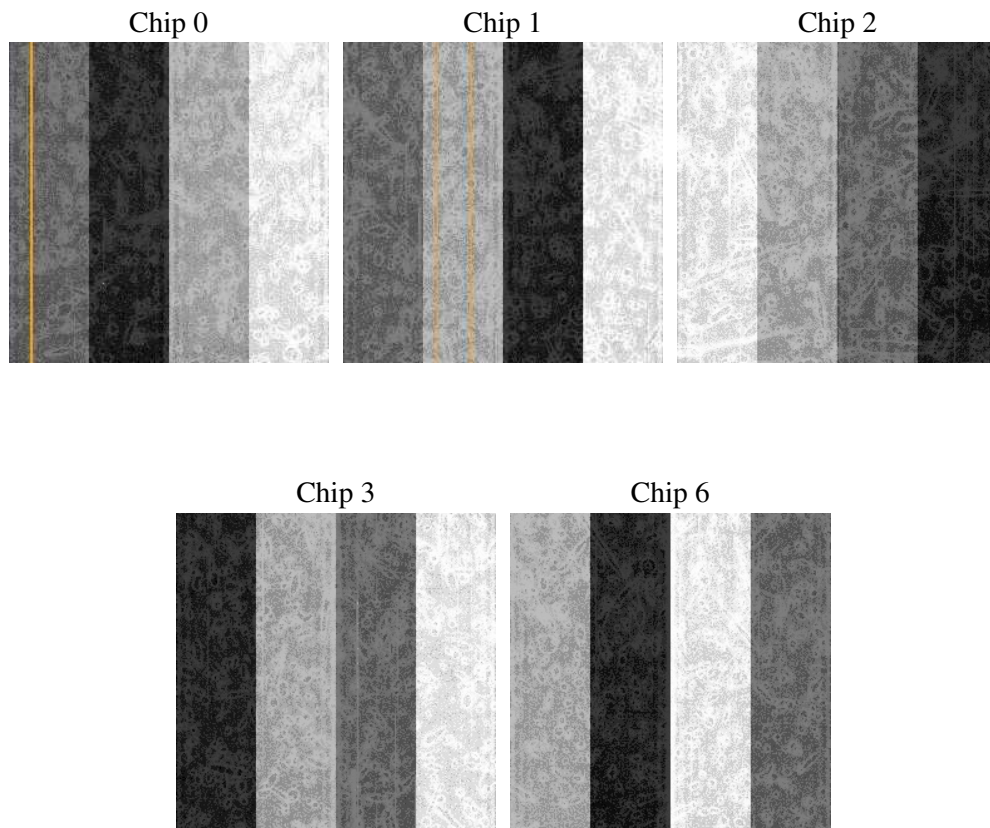
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.8 |
| caldsver | 3.2.2 |
| date | 2006-07-30T02:07:19 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 5000.000000 |
| ontime | 4780.6139416397 |
| ontime0 | 4780.6139615774 |
| ontime1 | 4780.6139615774 |
| ontime2 | 4780.6139416397 |
| ontime3 | 4780.6139416397 |
| ontime6 | 4780.6139416695 |
| l1events | 119597 |

2.1.4 Events

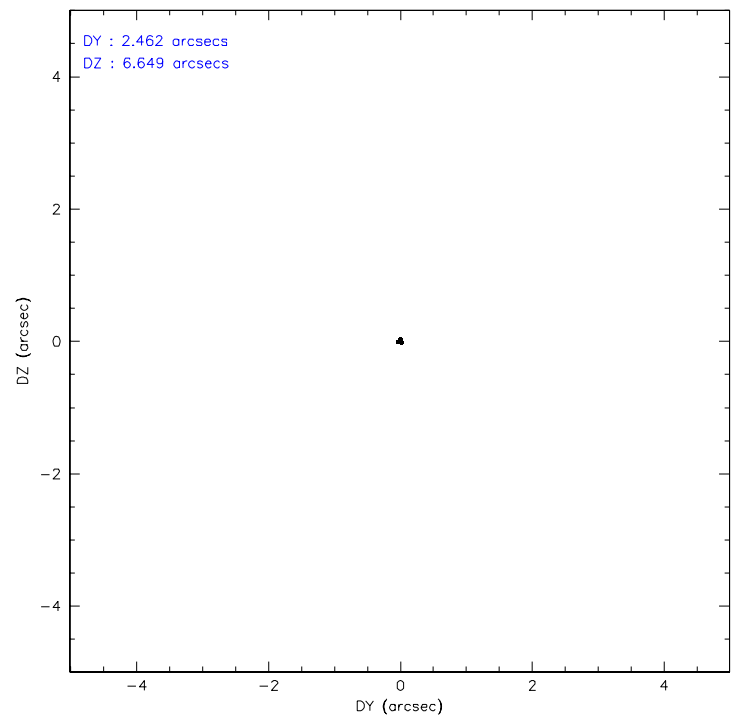
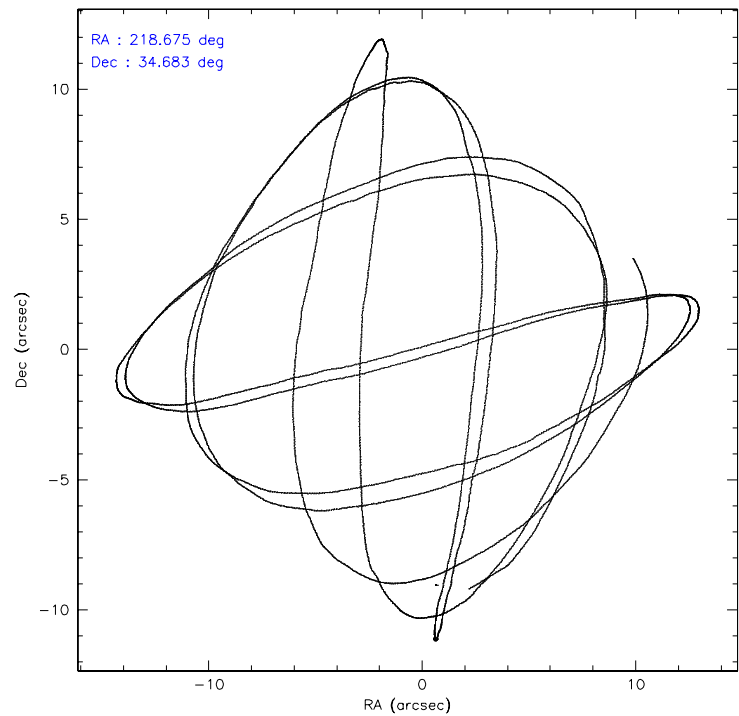
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 21557 | 22013 | 26596 | 23335 | 26096 |
| rejected events | 19155 | 19604 | 24298 | 21198 | 23757 |
| rejected % | 88% | 89% | 91% | 90% | 91% |

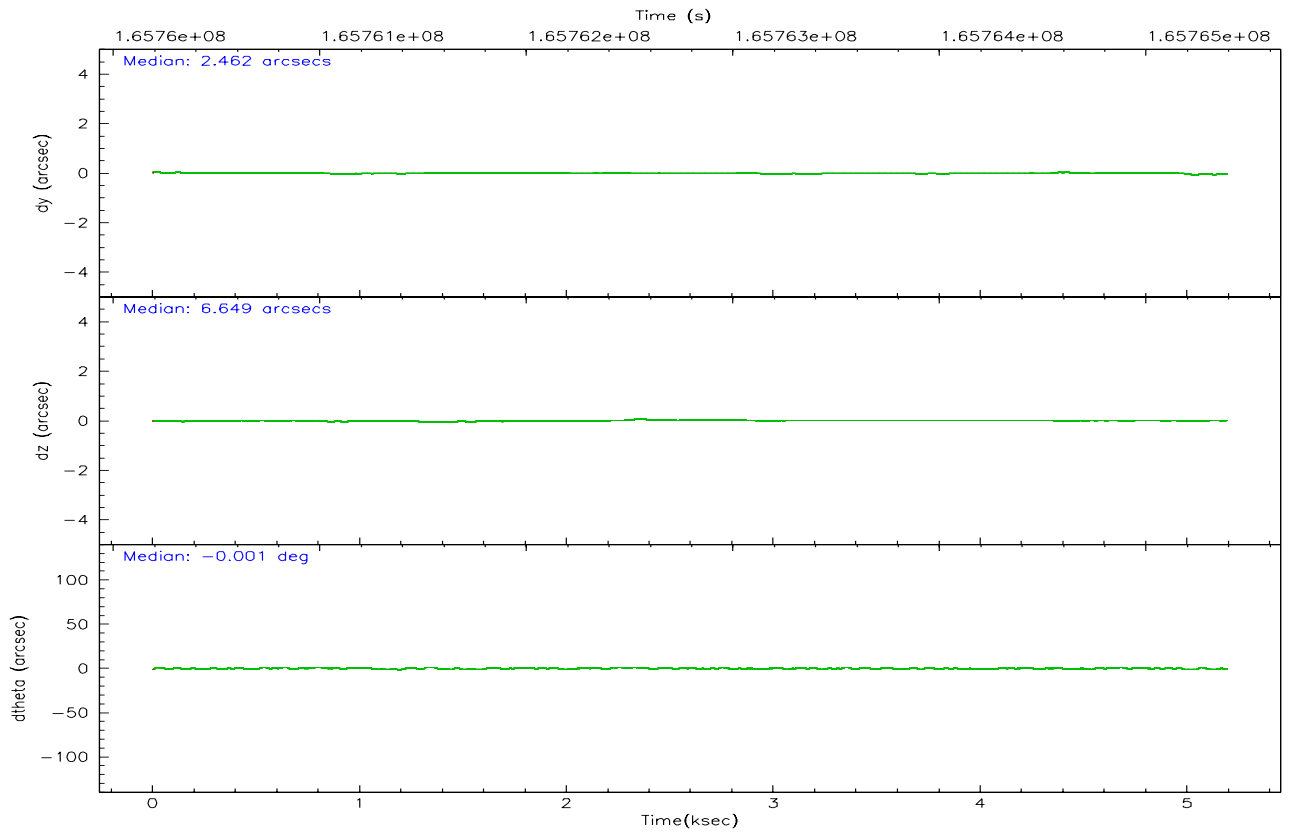
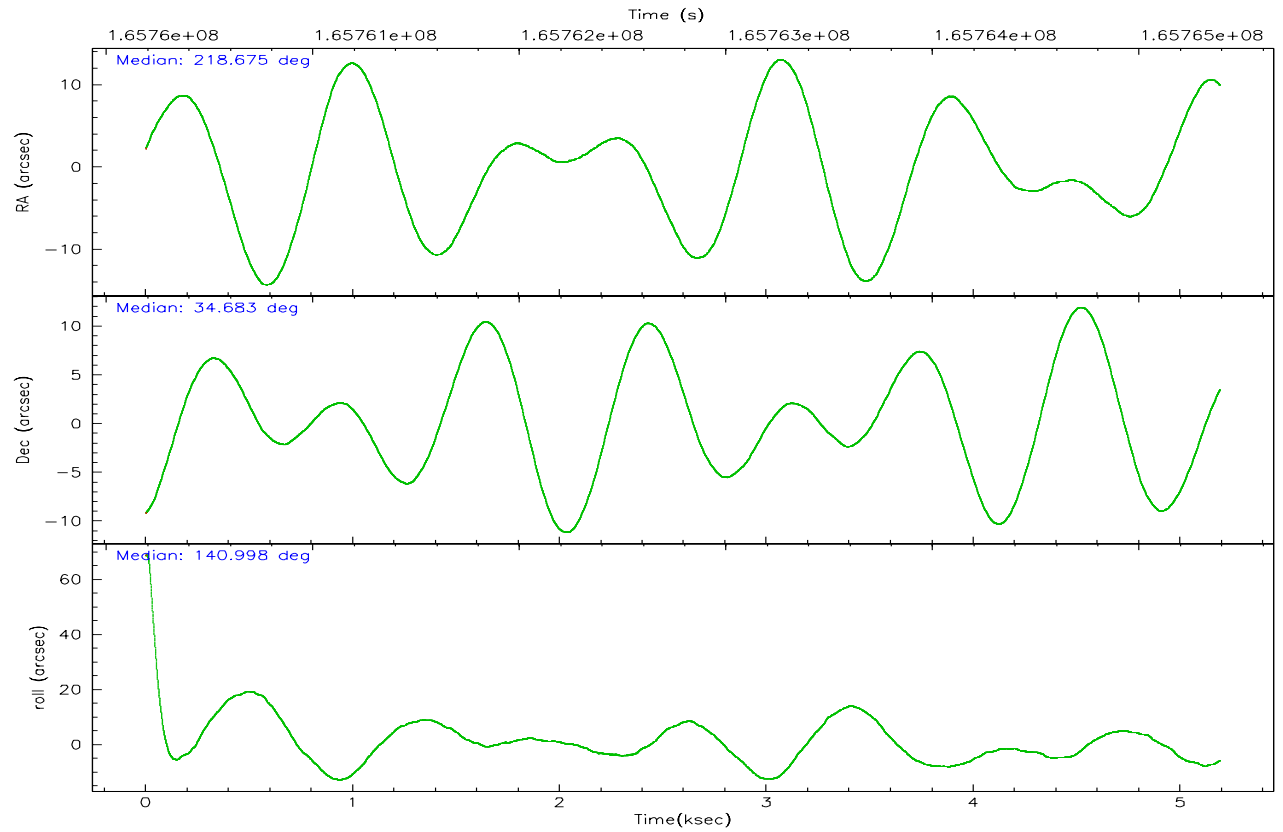
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 889 | 873 | 879 | 793 | 794 |
| | 4% | 3% | 3% | 3% | 3% |
| grade 1 events | 11 | 10 | 14 | 11 | 12 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 514 | 493 | 494 | 461 | 552 |
| | 2% | 2% | 1% | 1% | 2% |
| grade 3 events | 306 | 285 | 258 | 249 | 260 |
| | 1% | 1% | 0% | 1% | 0% |
| grade 4 events | 267 | 290 | 281 | 221 | 277 |
| | 1% | 1% | 1% | 0% | 1% |
| grade 5 events | 712 | 780 | 668 | 791 | 799 |
| | 3% | 3% | 2% | 3% | 3% |
| grade 6 events | 430 | 468 | 388 | 413 | 460 |
| | 1% | 2% | 1% | 1% | 1% |
| grade 7 events | 18428 | 18814 | 23614 | 20396 | 22942 |
| | 85% | 85% | 88% | 87% | 87% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-01236 | ACIS-01236 | 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 | 218.707093 | 218.6742512250321 | Alternating exposures requested | N | N |
| Pointing Dec | 34.679005 | 34.6831147989338 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 140.782783 | 141.010349922649 | | | |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -233.592463 | -233.5874344608287 | | | |
| SIM translation stage offset (mm) | 0 | -0.005018542100998502 | | | |
| Observation start time | 165760385.184000 | 165760009.04052 | | | |
| Observation start date | 2003-04-03T12:32:01 | 2003-04-03T12:26:49 | | | |
| Observation end time | 165765385.184000 | 165765519.44075 | | | |
| Observation end date | 2003-04-03T13:55:21 | 2003-04-03T13:58:39 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



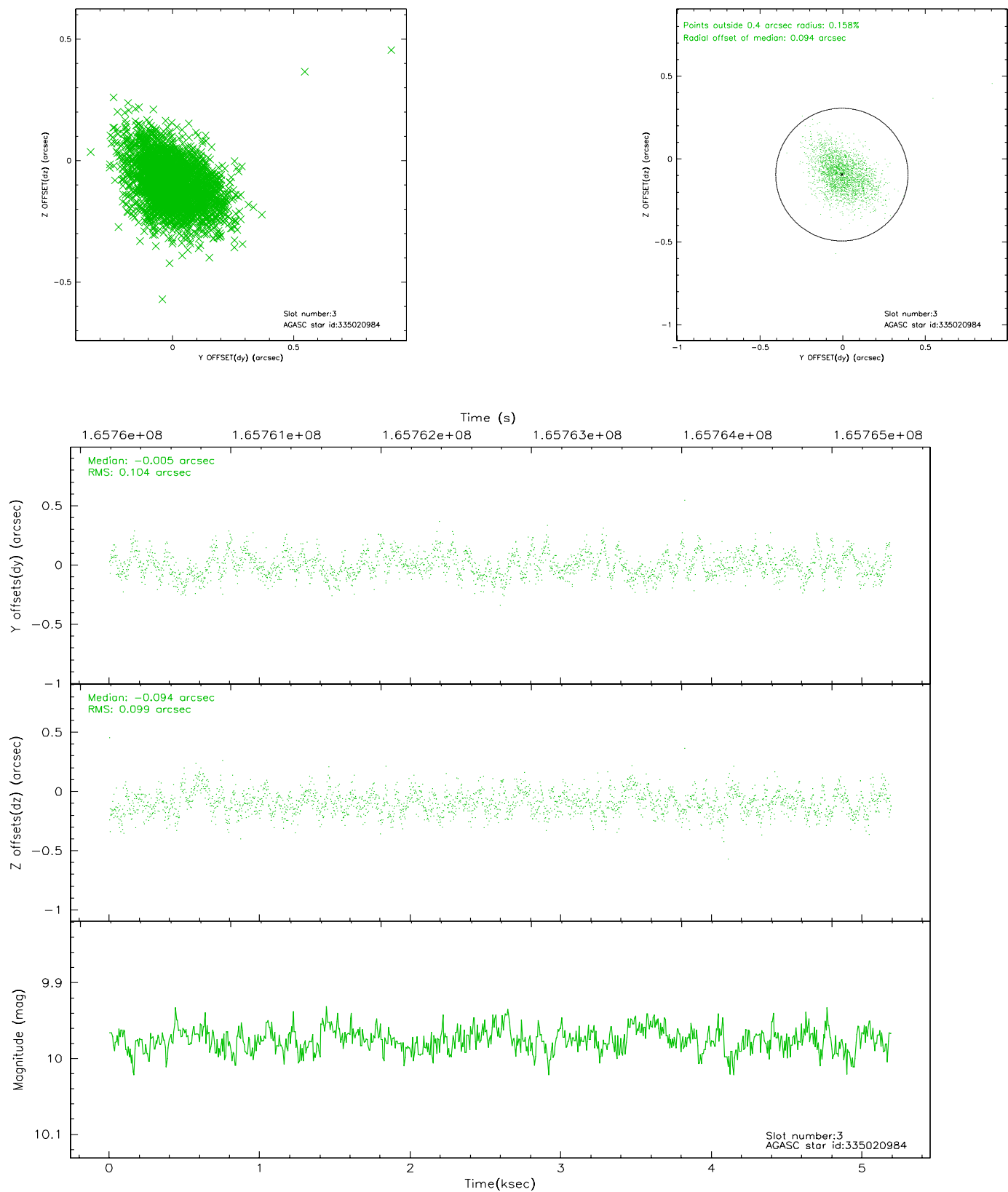


Slot Statistics

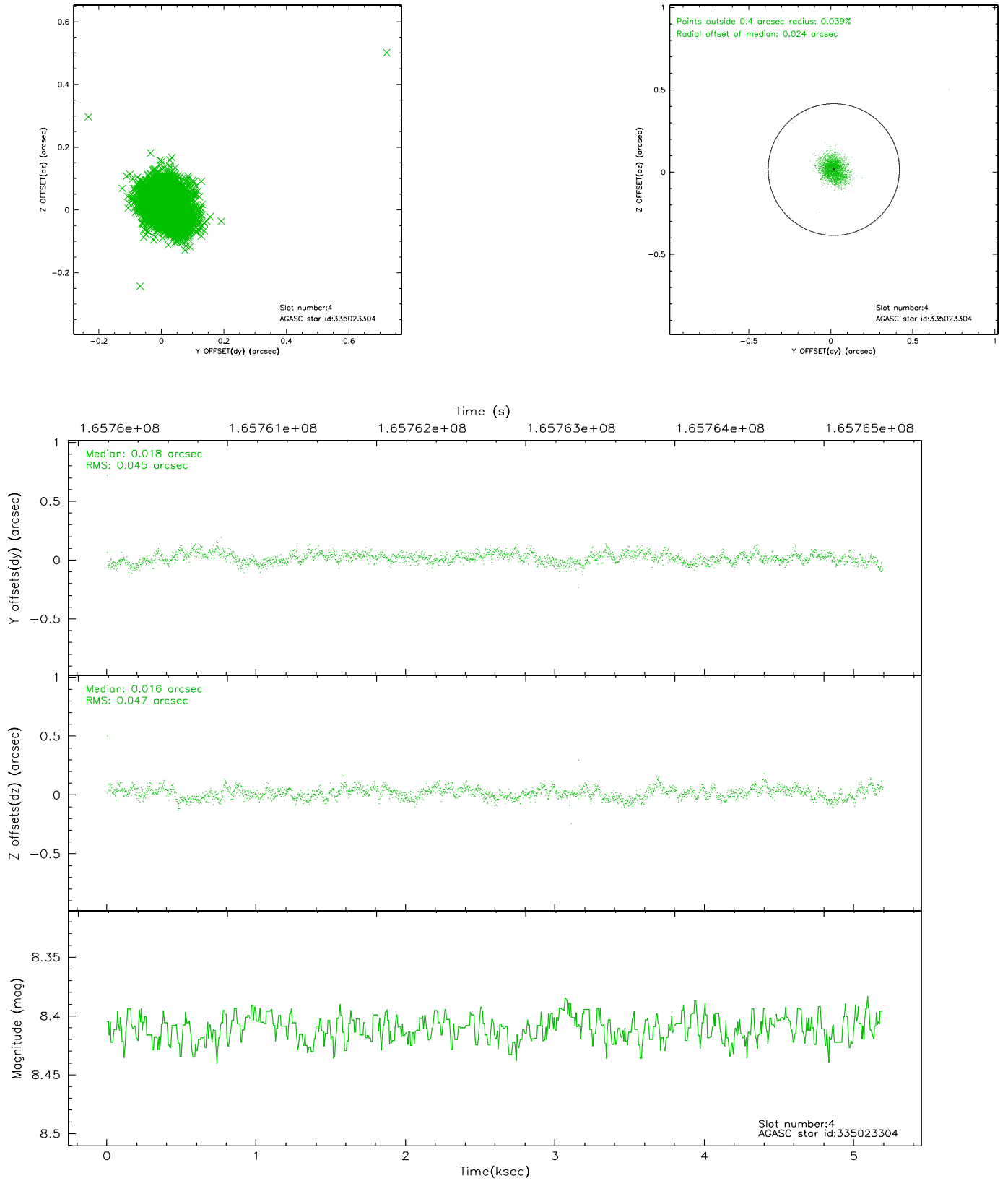
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.25 | 1267 | -0.005 | 0.020 | 0.006 | 0.010 | 0.000000 | 0.000000 | 937.32 | -830.03 |
| 1 | FID | ACIS-I-5 | 7.24 | 1267 | -0.054 | 0.046 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1810.14 | 1066.96 |
| 2 | FID | ACIS-I-6 | 7.26 | 1267 | -0.032 | 0.005 | 0.007 | 0.011 | 0.000000 | 0.000000 | 401.63 | 1712.70 |
| 3 | GUIDE | 335020984 | 9.97 | 2531 | -0.005 | -0.094 | 0.148 | 0.248 | 218.841668 | 33.815112 | -2277.48 | 2154.61 |
| 4 | GUIDE | 335023304 | 8.41 | 2533 | 0.018 | 0.016 | 0.067 | 0.106 | 218.883608 | 34.686545 | -387.57 | -350.55 |
| 5 | GUIDE | 335025040 | 9.91 | 2533 | 0.063 | 0.046 | 0.127 | 0.201 | 218.601670 | 34.305240 | -607.48 | 1240.76 |
| 6 | GUIDE | 335152968 | 9.75 | 2526 | 0.010 | -0.012 | 0.127 | 0.209 | 219.446087 | 34.867883 | -1255.50 | -1912.40 |
| 7 | GUIDE | 335414336 | 8.95 | 2529 | -0.092 | 0.045 | 0.076 | 0.122 | 218.979022 | 35.090910 | 318.01 | -1656.39 |

2.4 Star Slots

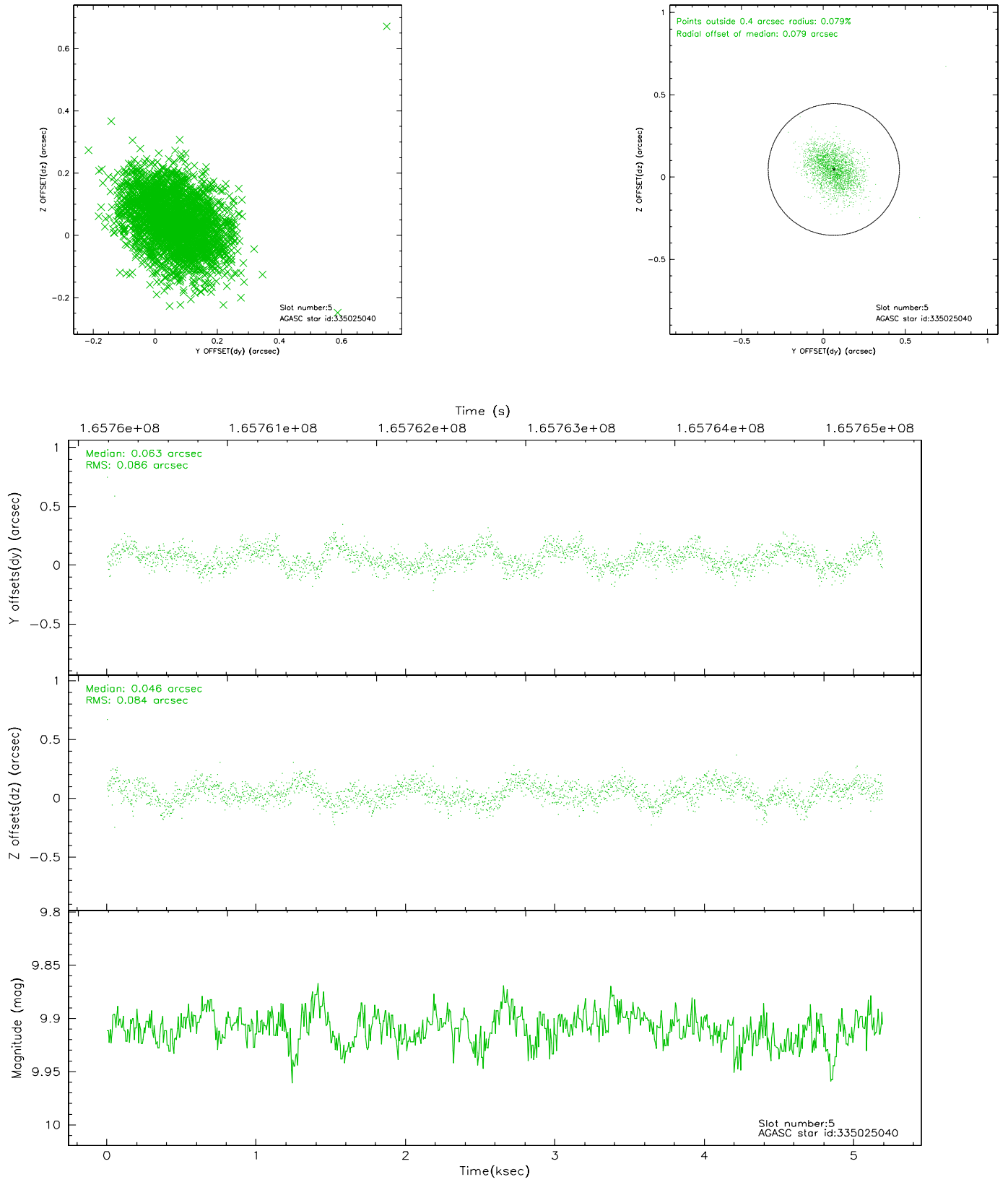
2.4.1 Slot 3



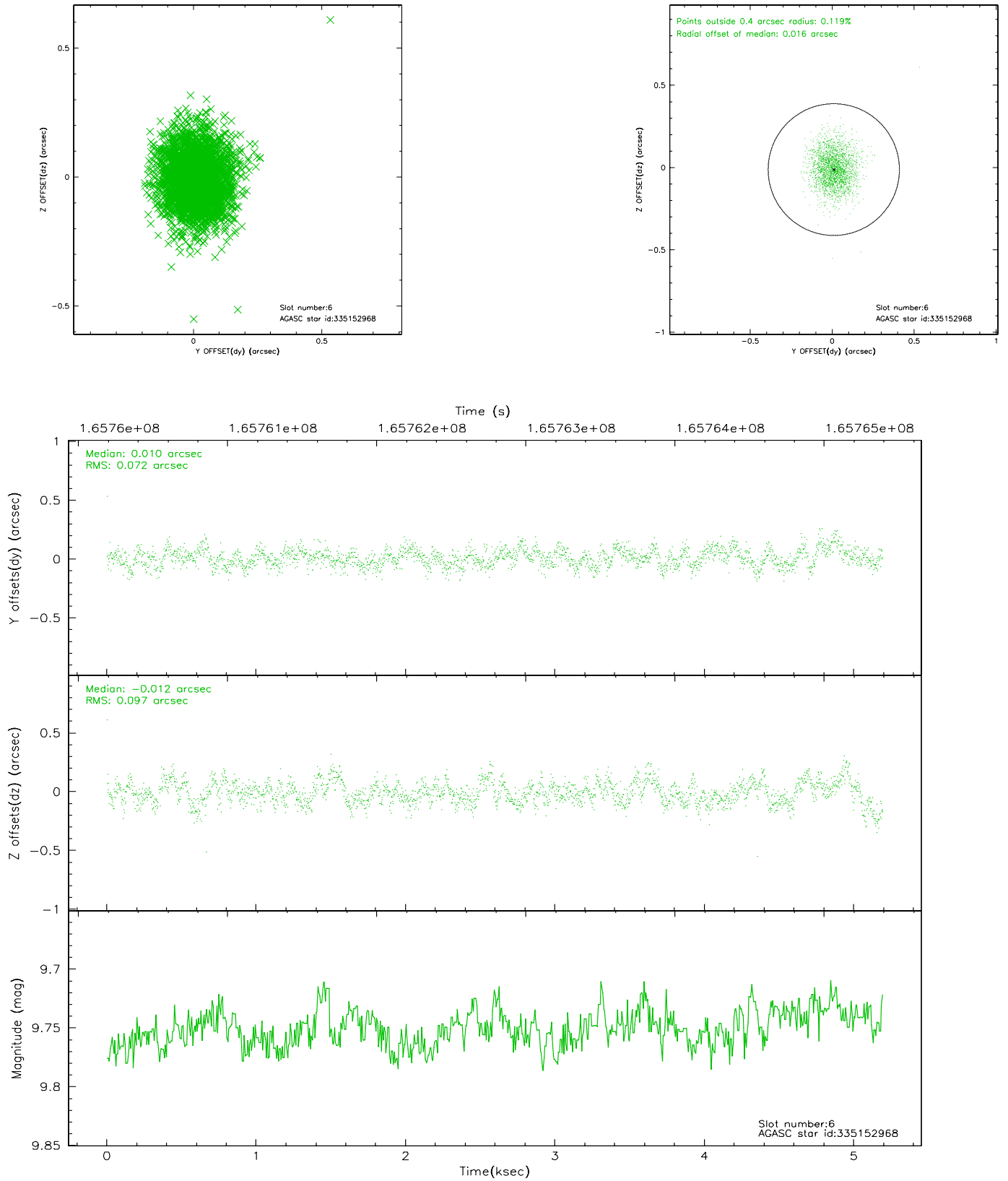
2.4.2 Slot 4



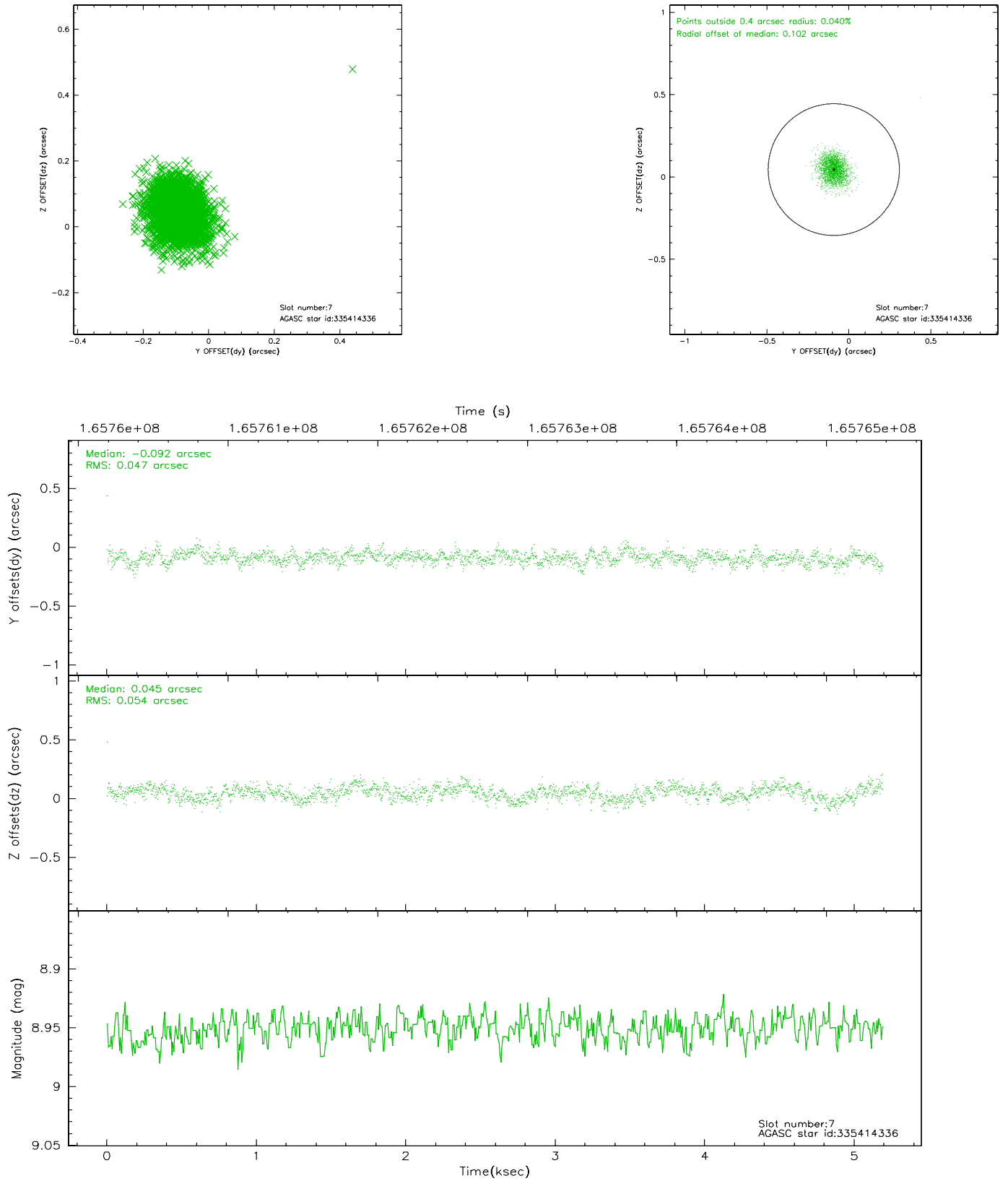
2.4.3 Slot 5



2.4.4 Slot 6

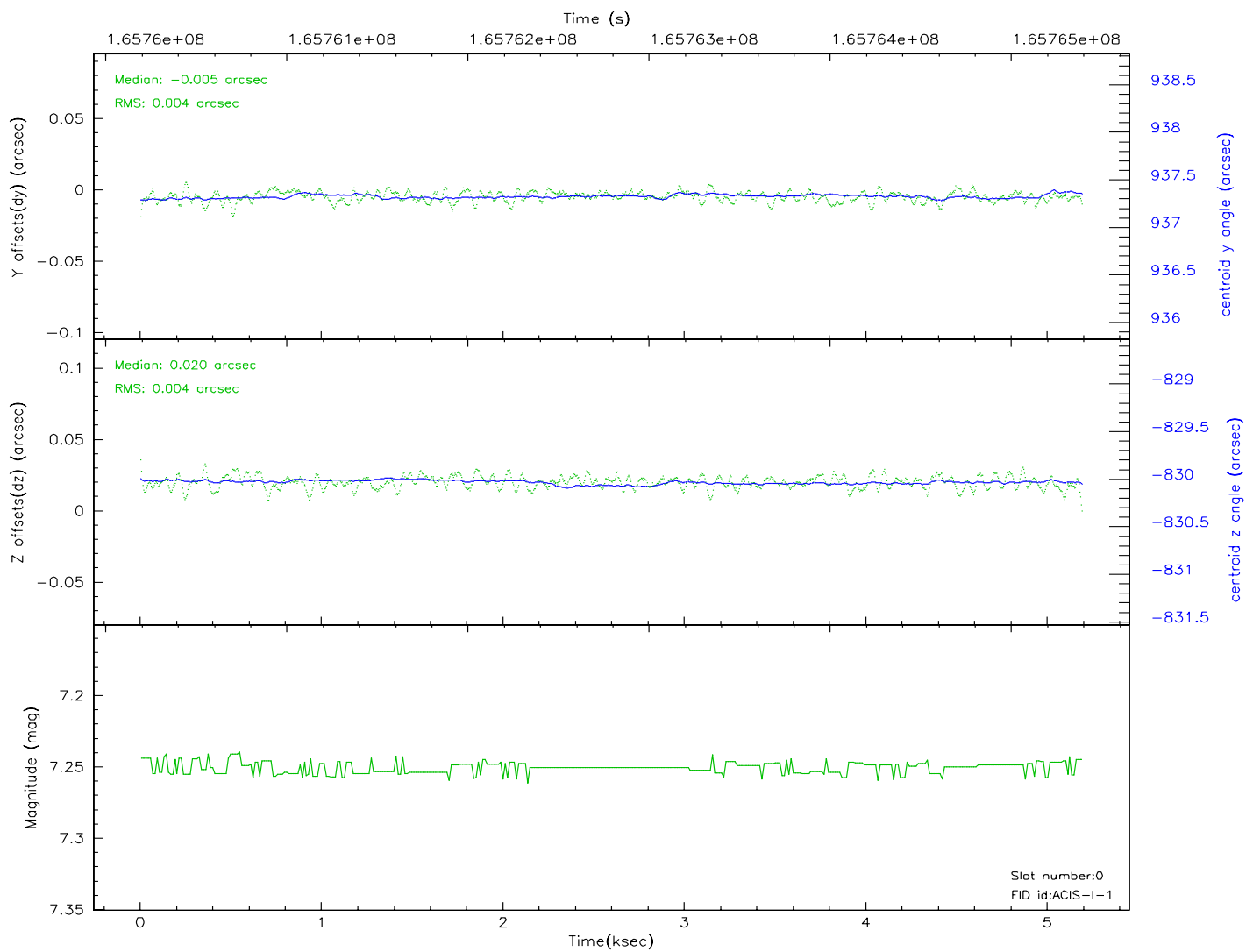
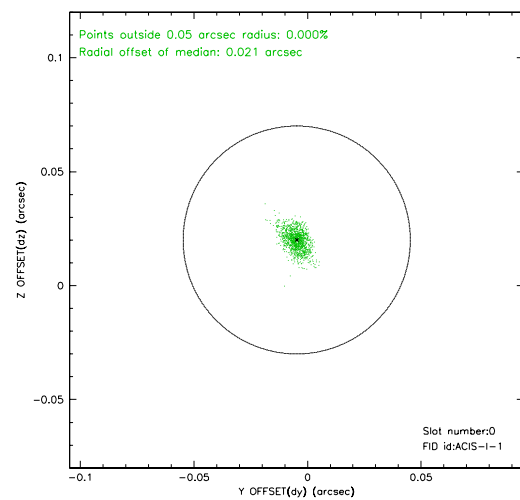
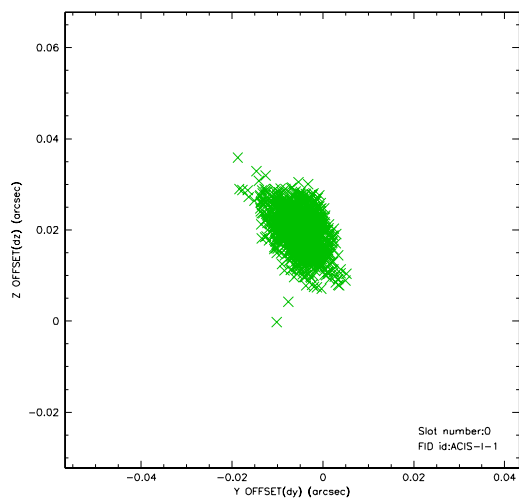


2.4.5 Slot 7

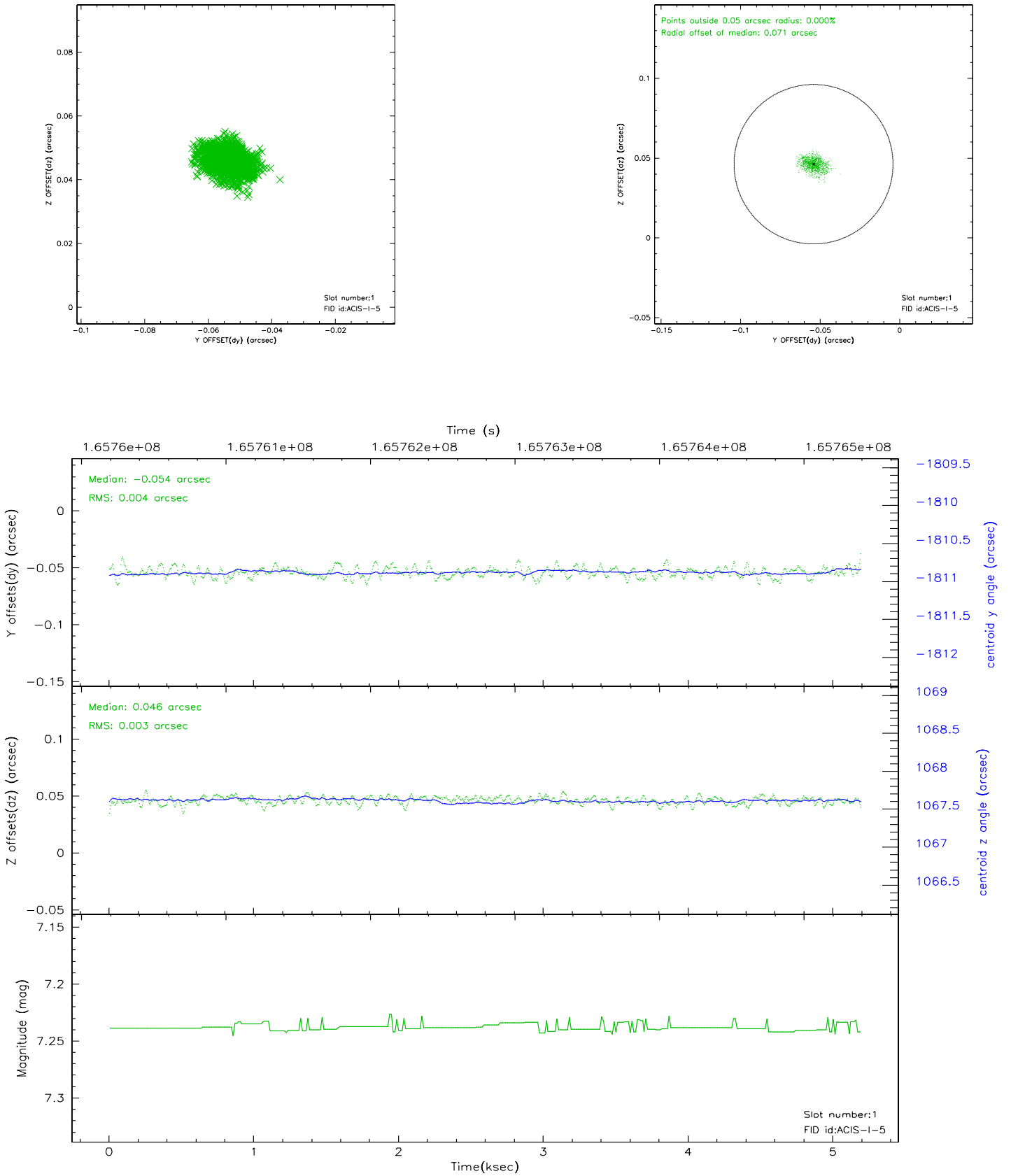


2.5 FID Slots

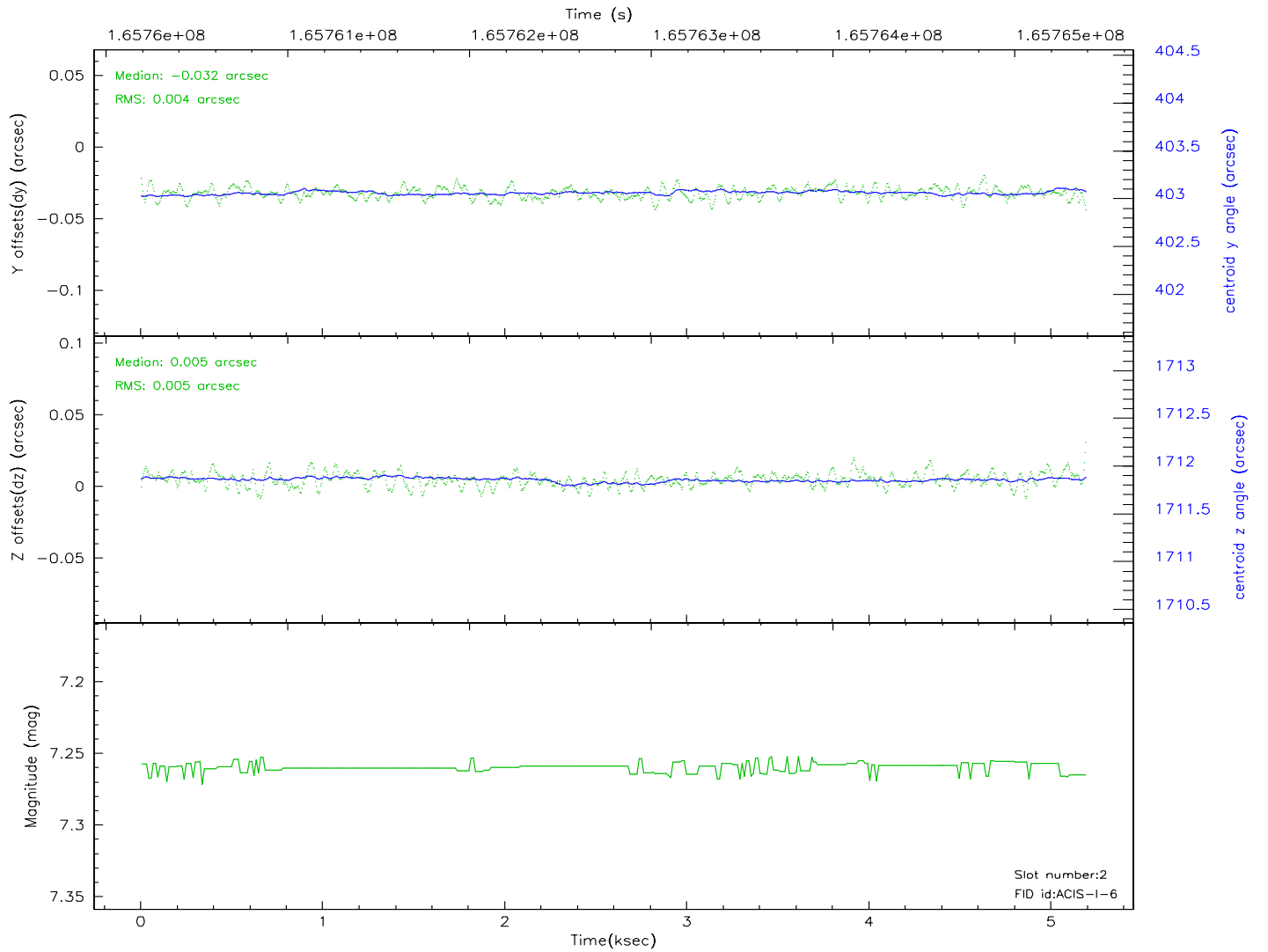
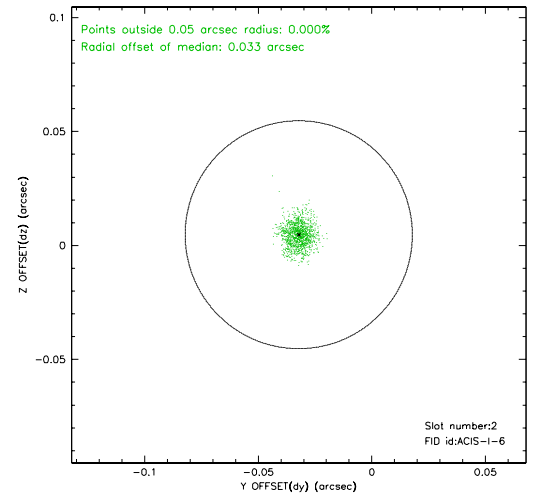
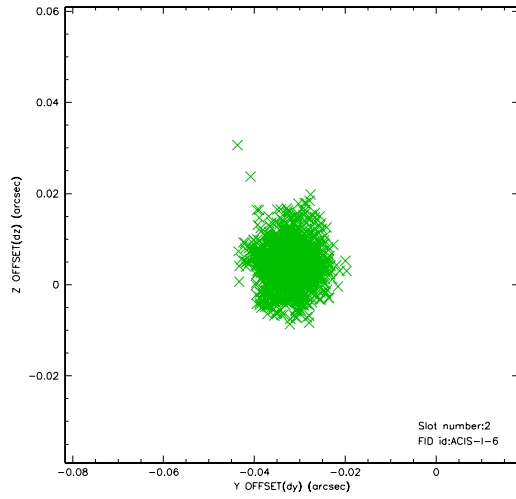
2.5.1 Slot 0



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) | 2006.07.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.777 |

A.2 Comments