

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3638 - L2 Version 001
Chandra X-Ray Center

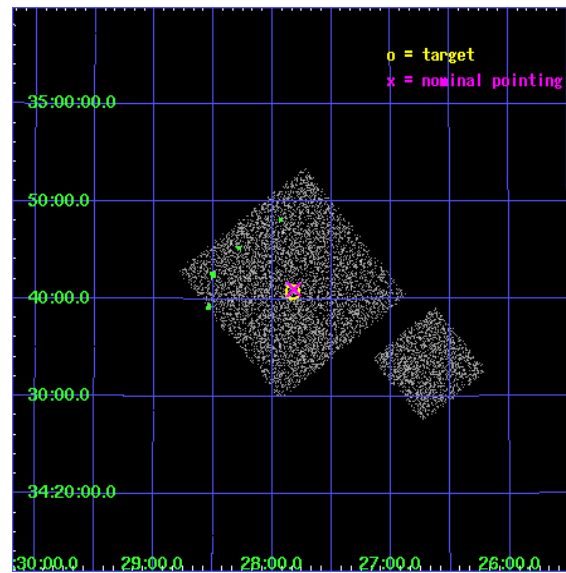
L2 Processing Date : Jul 29 2006

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

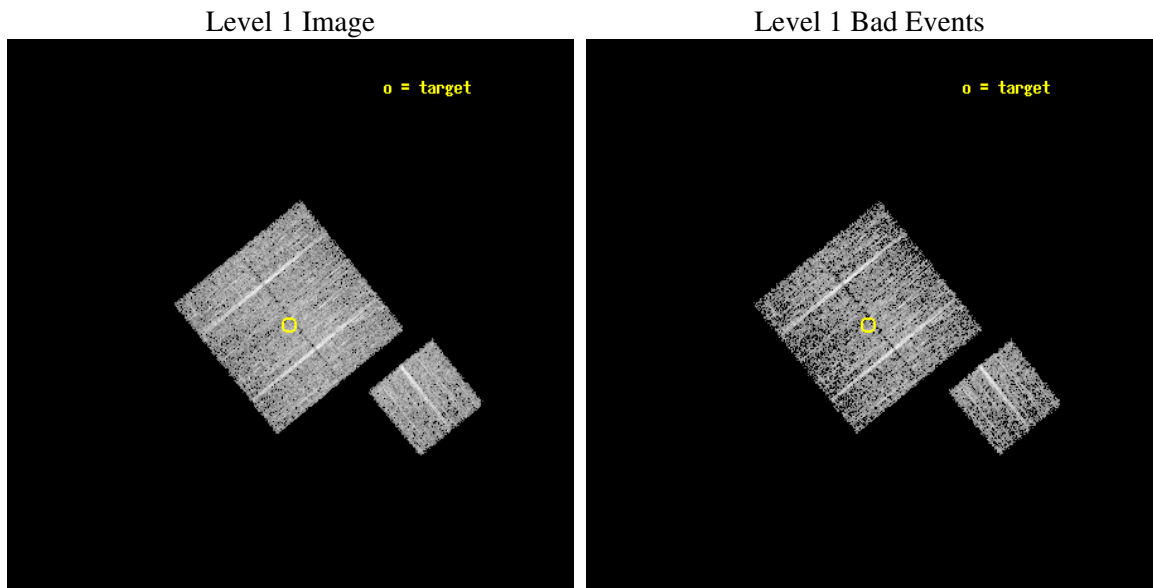
| | |
|----------|--|
| seq_num | 900238 |
| obs_id | 3638 |
| title | CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD |
| observer | Dr. Stephen Murray |
| object | NOAO FIELD F19 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 216.957163 |
| dec_targ | 34.679082 |
| ra_nom | 216.95446772531 |
| dec_nom | 34.68316670748 |
| roll_nom | 141.01027862074 |
| revision | 2 |
| ontime | 4674.7999910116 |
| livetime | 4613.7202875914 |
| ontime0 | 4674.7999910116 |
| ontime1 | 4674.7999910116 |
| ontime2 | 4674.7999910116 |
| ontime3 | 4674.7999910116 |
| ontime6 | 4674.7999910116 |
| l2events | 9211 |



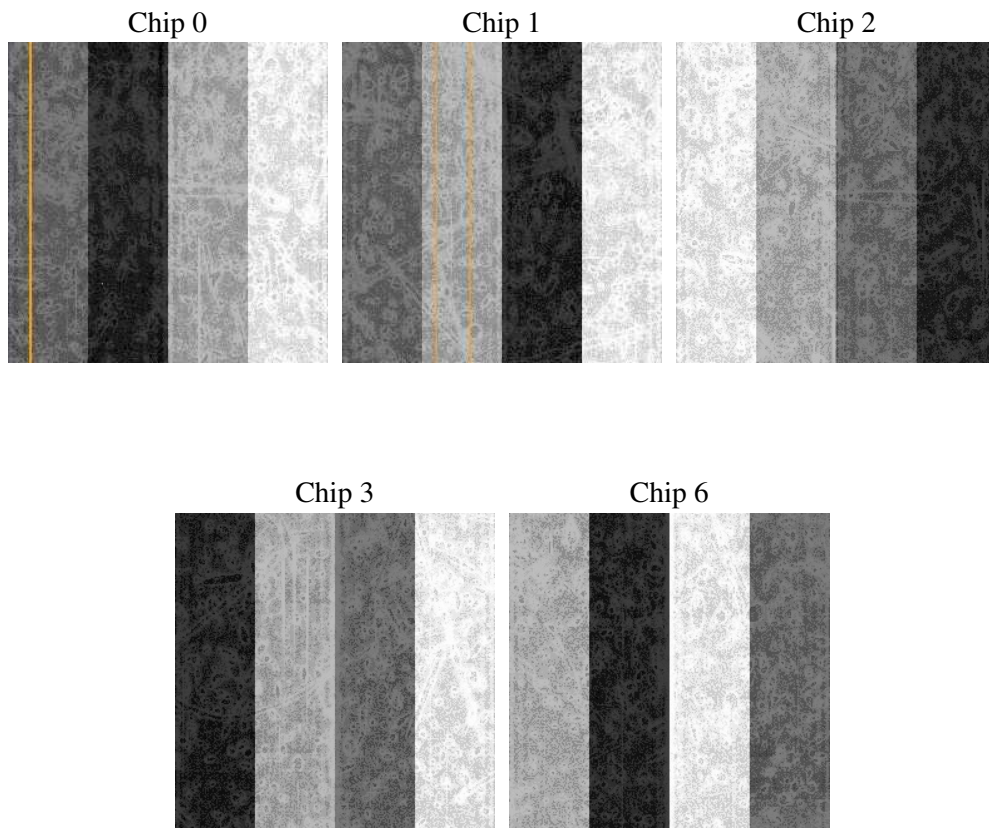
2 OBI

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 | 2006-07-29T18:54:51 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 4900.000000 |
| ontime | 4680.1083471179 |
| ontime0 | 4680.1083471179 |
| ontime1 | 4680.1083272398 |
| ontime2 | 4680.1083272398 |
| ontime3 | 4680.1083471179 |
| ontime6 | 4680.1083272398 |
| l1events | 114614 |

2.1.4 Events

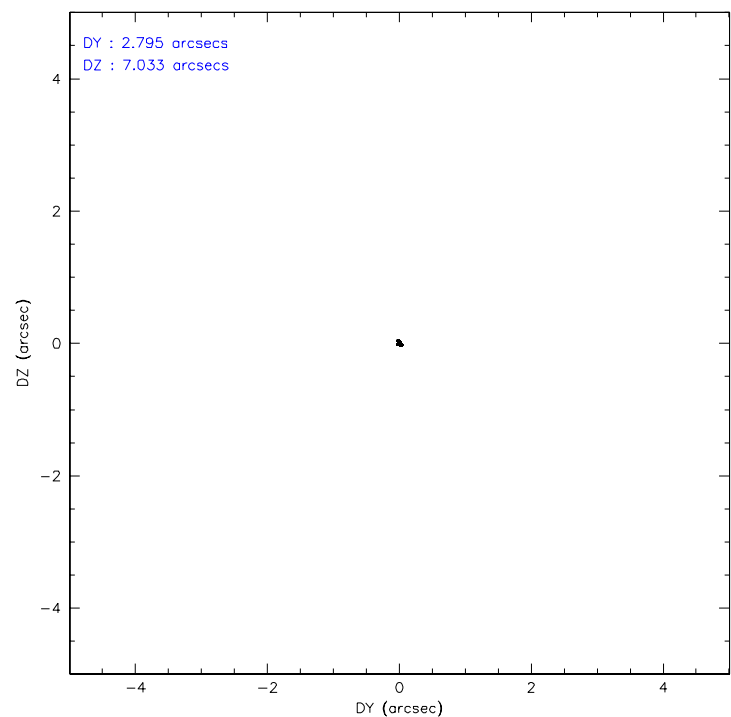
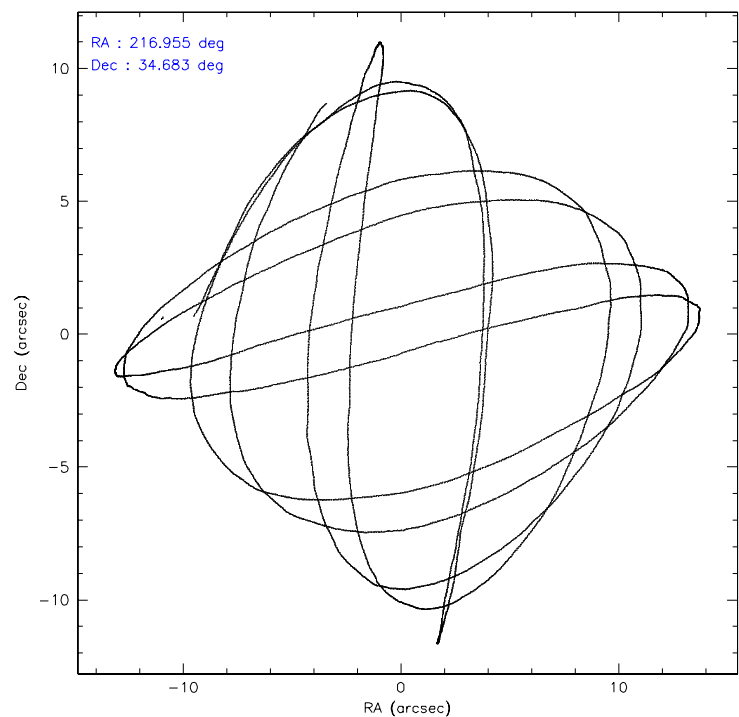
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 22393 | 21724 | 24673 | 22675 | 23149 |
| rejected events | 19984 | 19302 | 22585 | 20584 | 20901 |
| rejected % | 89% | 88% | 91% | 90% | 90% |

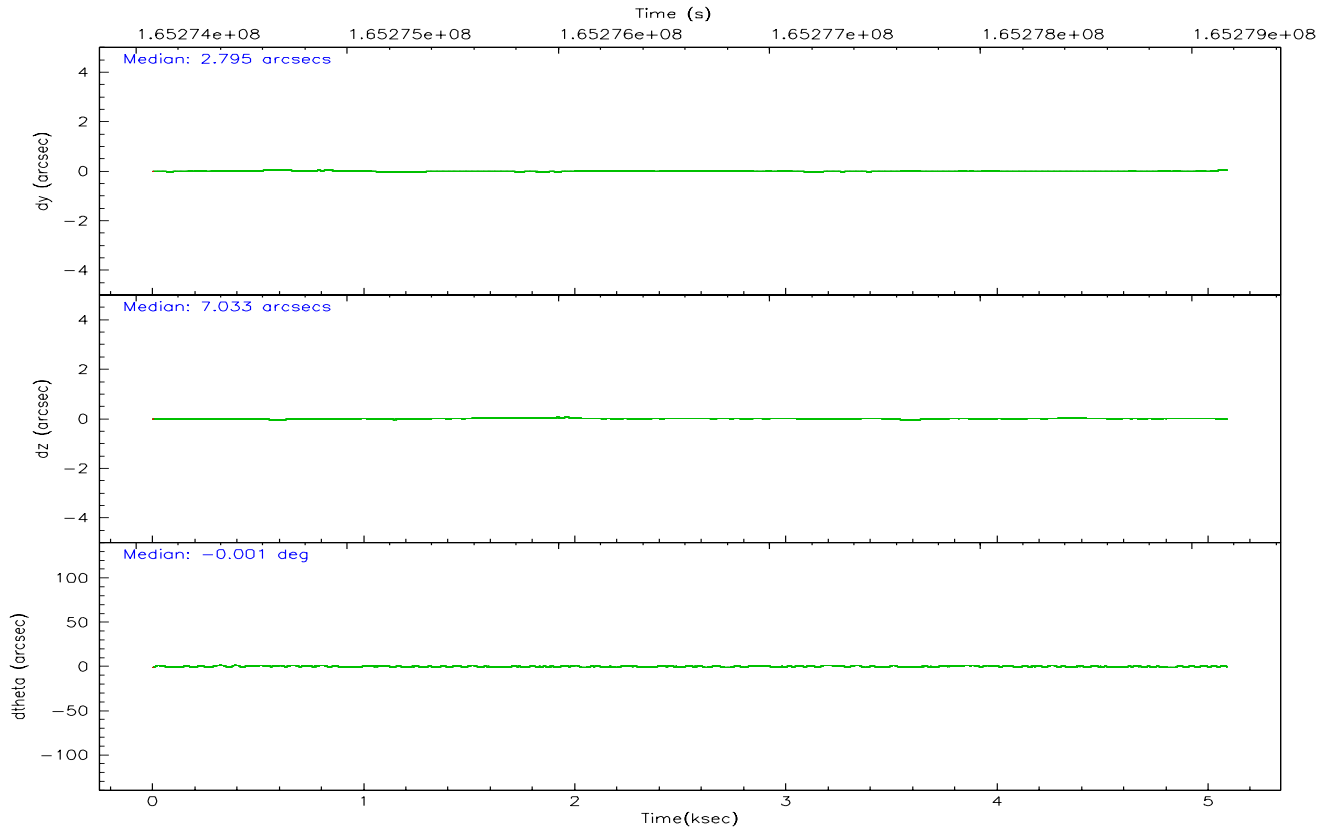
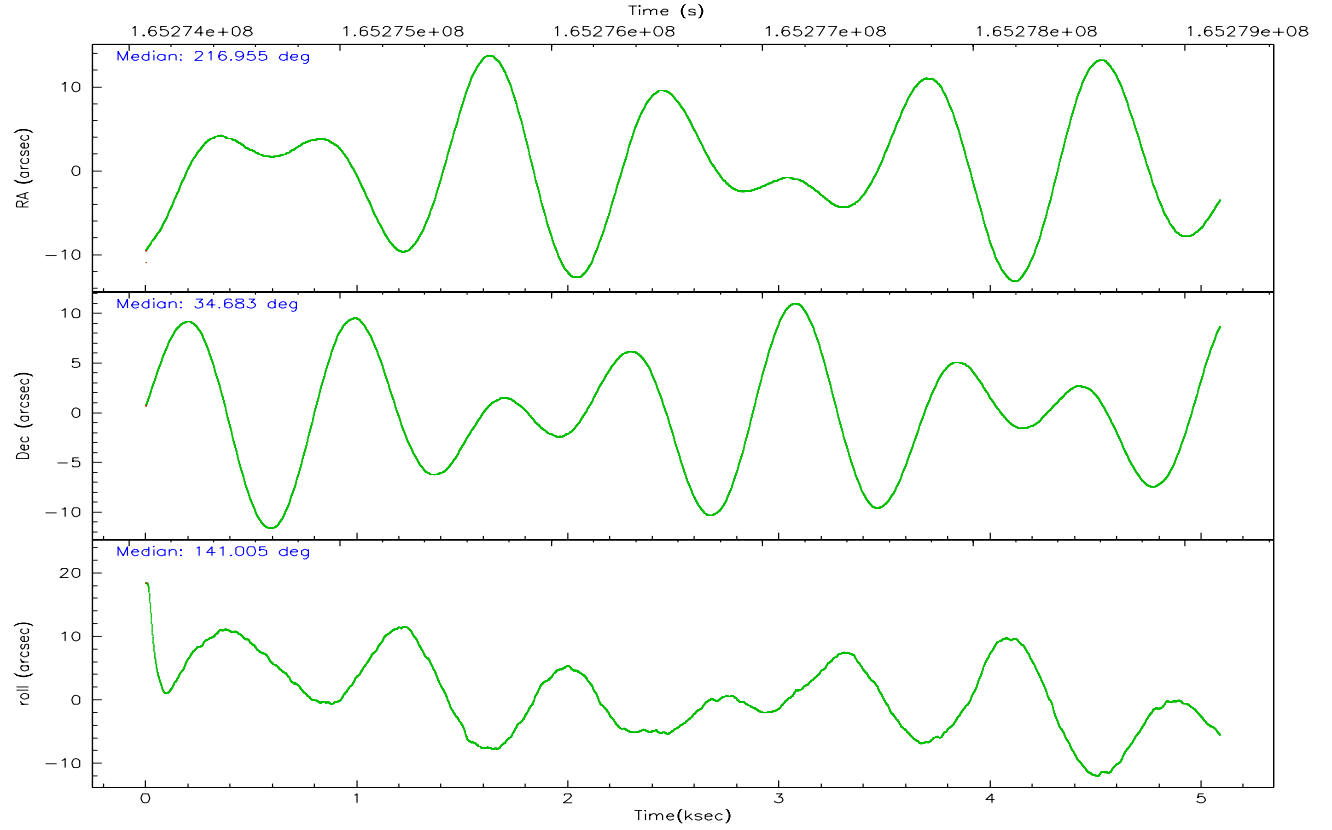
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 919 | 883 | 783 | 730 | 797 |
| | 4% | 4% | 3% | 3% | 3% |
| grade 1 events | 9 | 15 | 10 | 12 | 12 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 507 | 489 | 466 | 428 | 473 |
| | 2% | 2% | 1% | 1% | 2% |
| grade 3 events | 308 | 302 | 233 | 259 | 259 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 4 events | 252 | 277 | 264 | 237 | 255 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 678 | 723 | 633 | 726 | 774 |
| | 3% | 3% | 2% | 3% | 3% |
| grade 6 events | 425 | 472 | 345 | 438 | 465 |
| | 1% | 2% | 1% | 1% | 2% |
| grade 7 events | 19295 | 18563 | 21939 | 19845 | 20114 |
| | 86% | 85% | 88% | 87% | 86% |

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 | 216.987424 | 216.9544677253129 | Alternating exposures requested | N | N |
| Pointing Dec | 34.678994 | 34.68316670748001 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 140.782783 | 141.010278620736 | | | |
| 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 | 165274270.184000 | 165273894.57002 | | | |
| Observation start date | 2003-03-28T21:30:06 | 2003-03-28T21:24:54 | | | |
| Observation end time | 165279170.184000 | 165279304.52025 | | | |
| Observation end date | 2003-03-28T22:51:46 | 2003-03-28T22:55:04 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



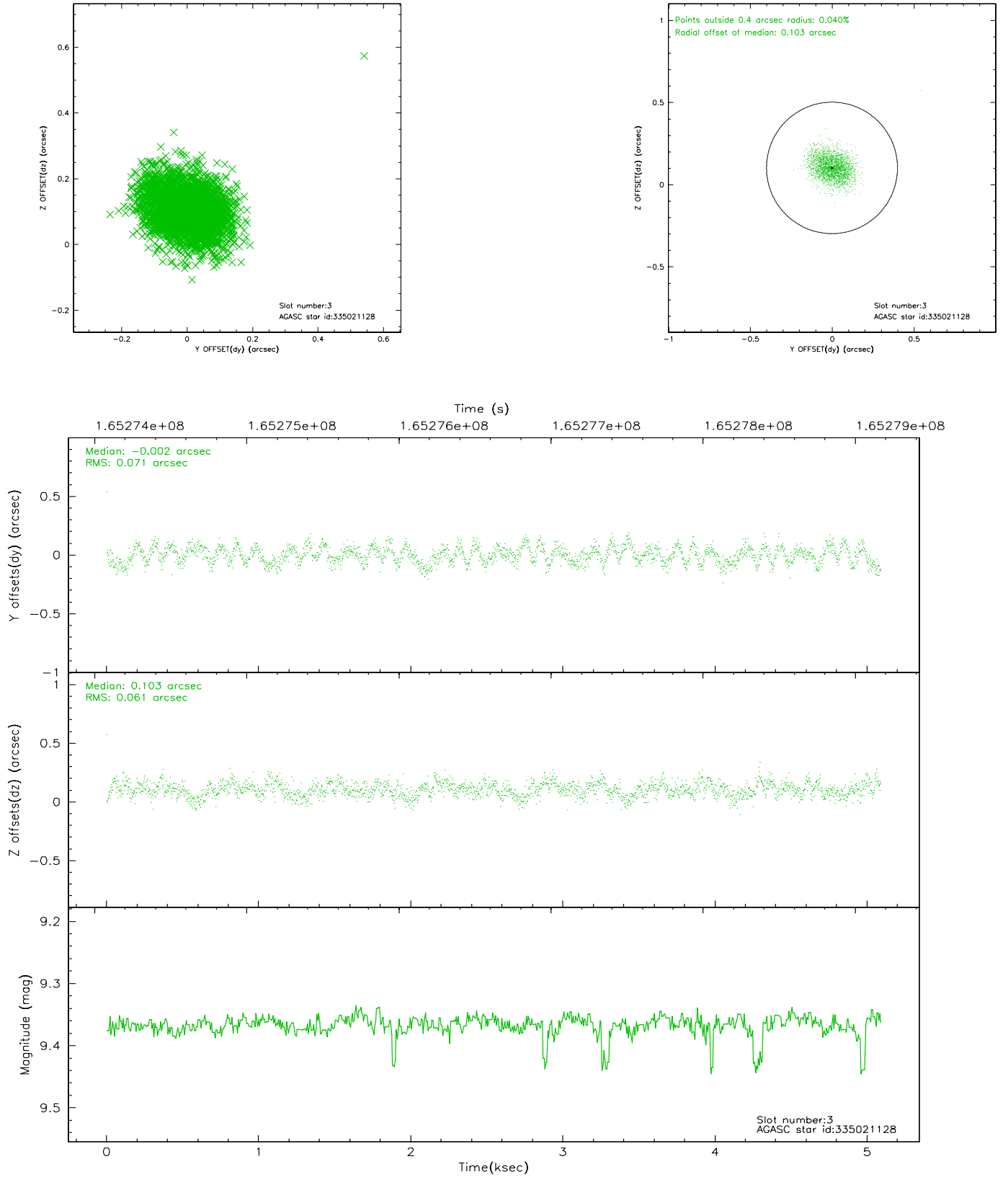


Slot Statistics

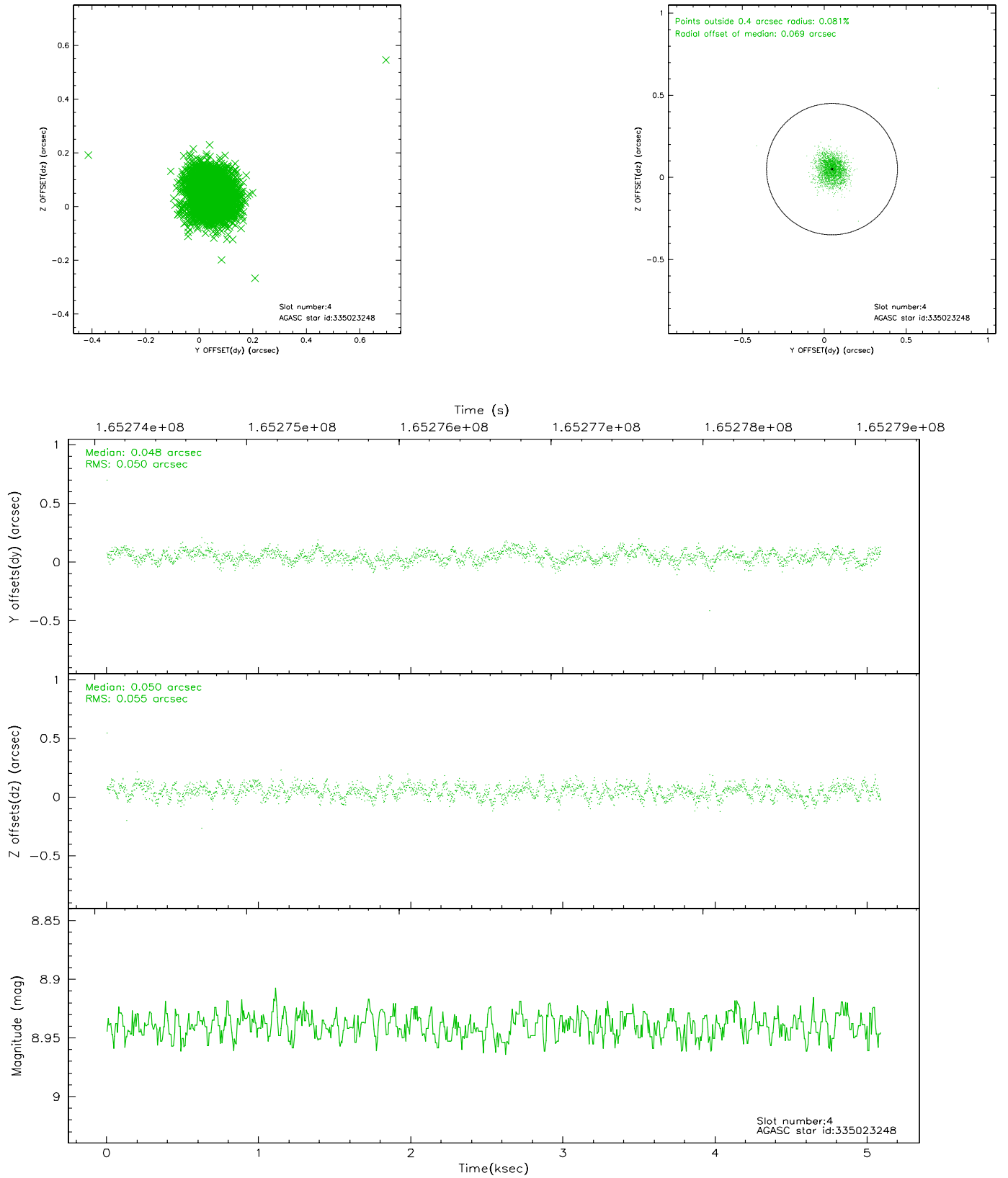
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.25 | 1242 | -0.000 | 0.029 | 0.006 | 0.010 | 0.000000 | 0.000000 | 936.99 | -830.41 |
| 1 | FID | ACIS-I-5 | 7.24 | 1242 | -0.058 | 0.052 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1810.48 | 1066.55 |
| 2 | FID | ACIS-I-6 | 7.26 | 1242 | -0.033 | -0.010 | 0.007 | 0.011 | 0.000000 | 0.000000 | 401.25 | 1712.31 |
| 3 | GUIDE | 335021128 | 9.37 | 2477 | -0.002 | 0.103 | 0.100 | 0.158 | 216.159551 | 34.422539 | 1327.45 | 2262.30 |
| 4 | GUIDE | 335023248 | 8.94 | 2483 | 0.048 | 0.050 | 0.076 | 0.122 | 217.634832 | 34.944512 | -870.92 | -1952.15 |
| 5 | GUIDE | 335028336 | 9.47 | 2482 | 0.074 | -0.032 | 0.091 | 0.151 | 217.189840 | 34.665629 | -494.39 | -342.77 |
| 6 | GUIDE | 335030384 | 8.82 | 2483 | -0.007 | -0.153 | 0.069 | 0.116 | 216.806407 | 34.722197 | 513.63 | 217.75 |
| 7 | GUIDE | 335419408 | 9.16 | 2482 | -0.112 | 0.039 | 0.072 | 0.115 | 217.210194 | 35.075700 | 395.40 | -1521.62 |

2.4 Star Slots

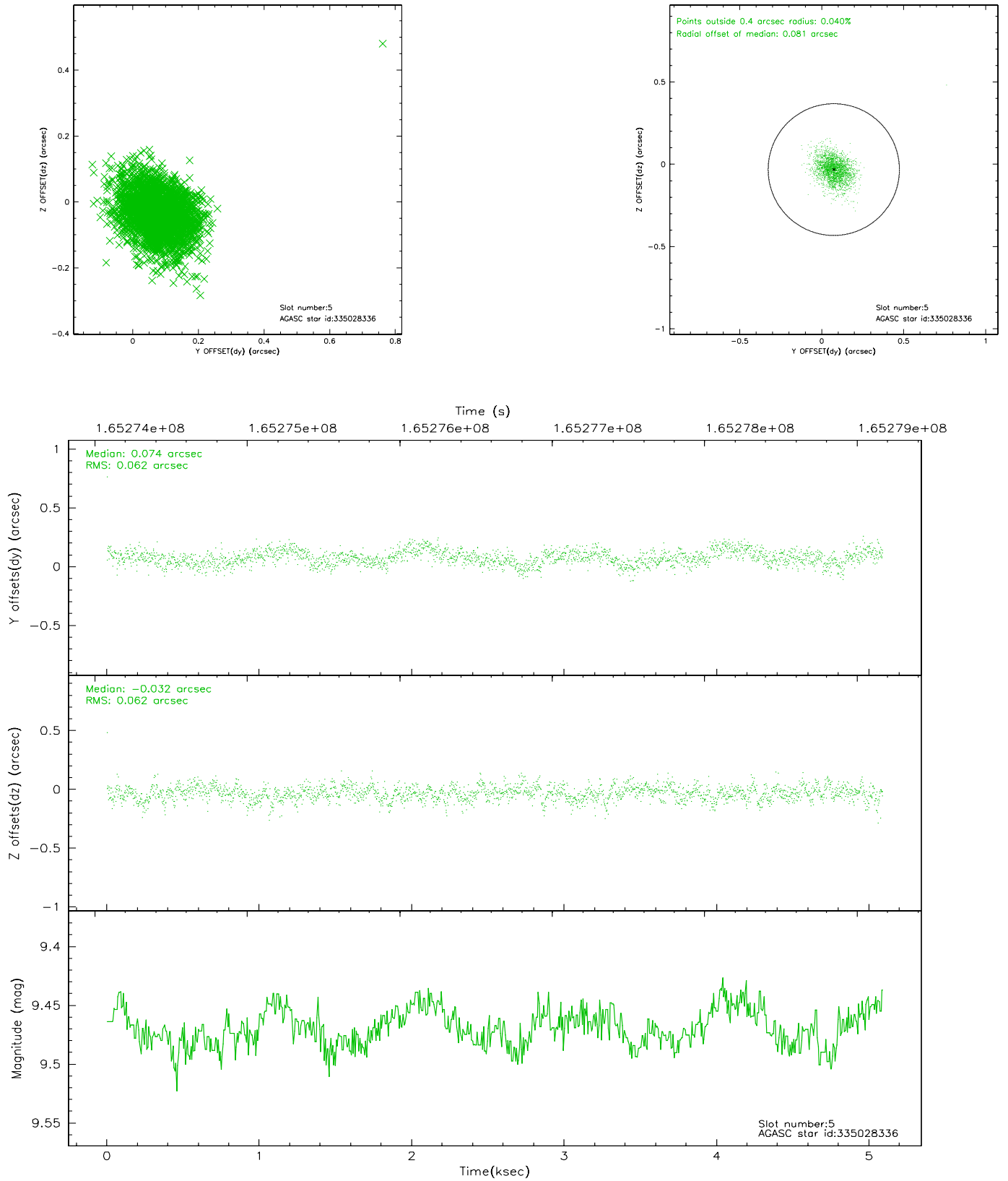
2.4.1 Slot 3



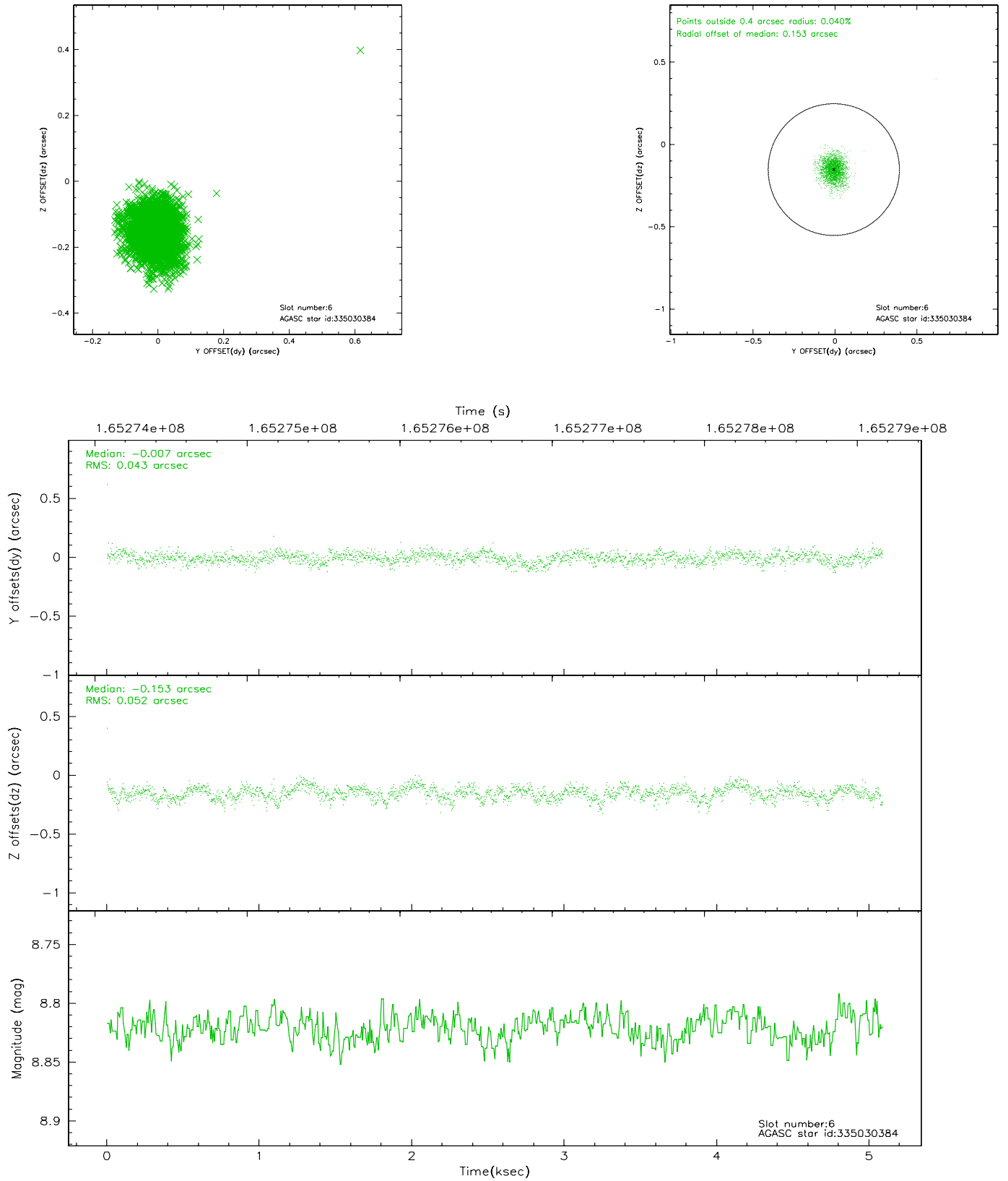
2.4.2 Slot 4



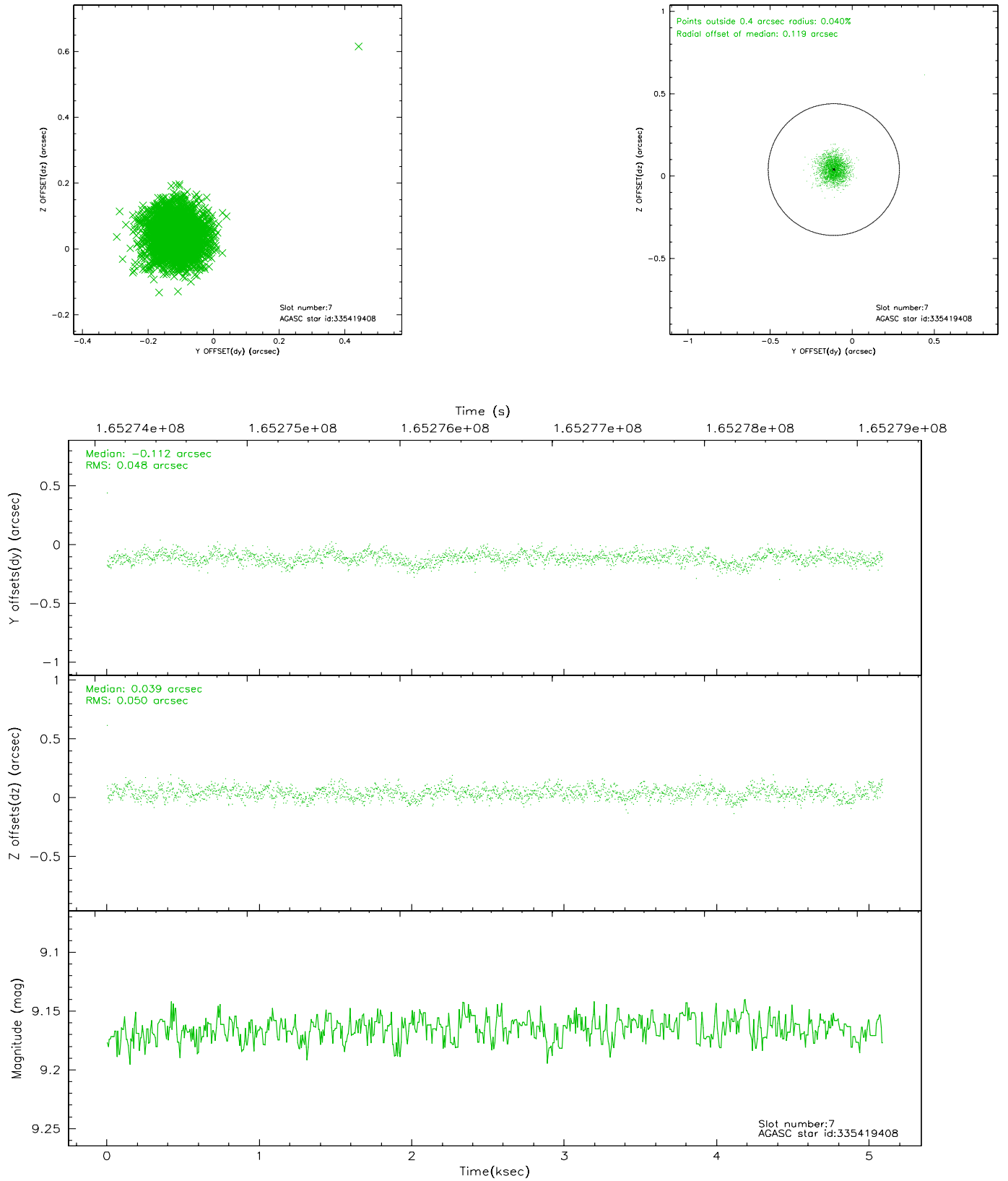
2.4.3 Slot 5



2.4.4 Slot 6

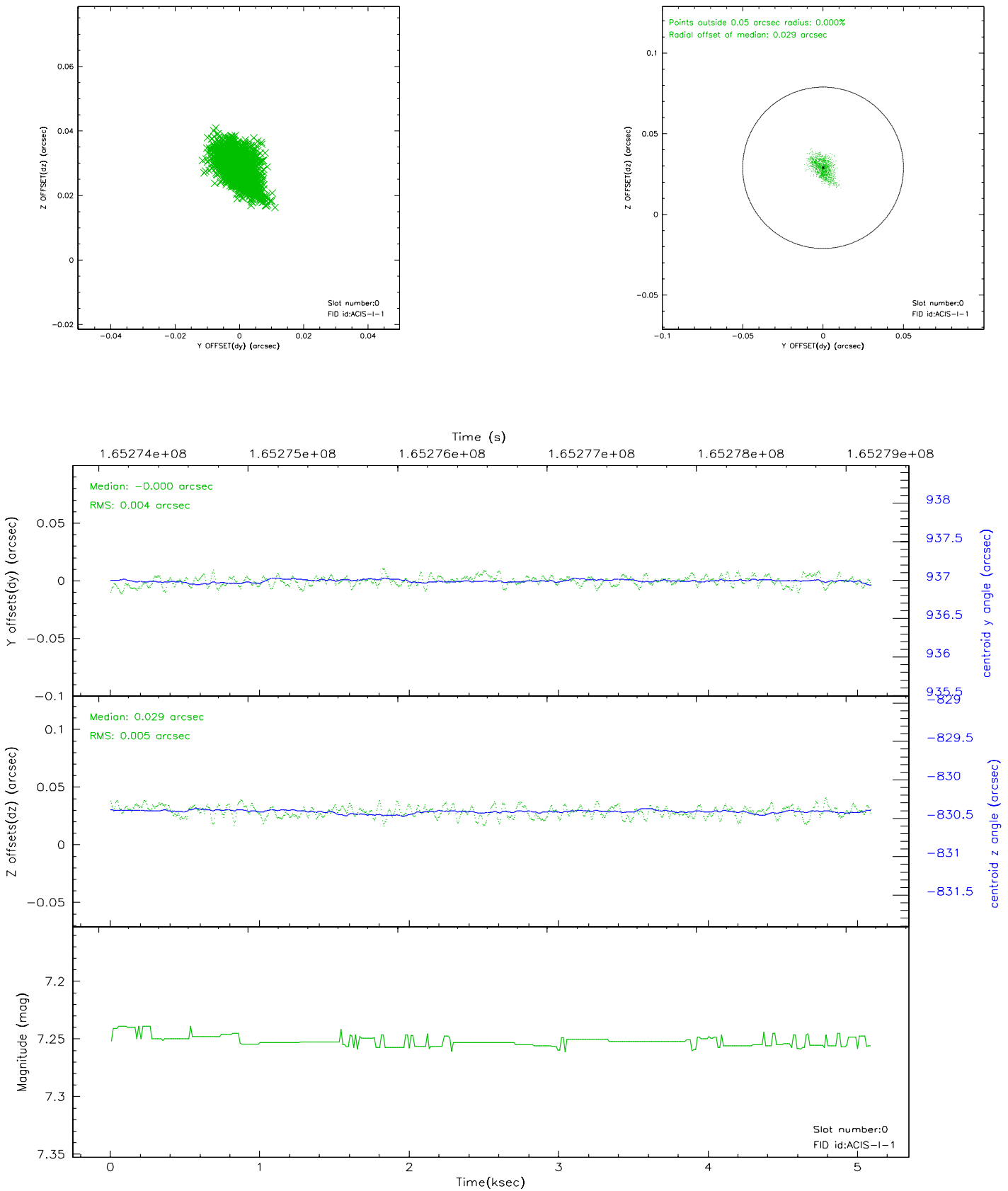


2.4.5 Slot 7

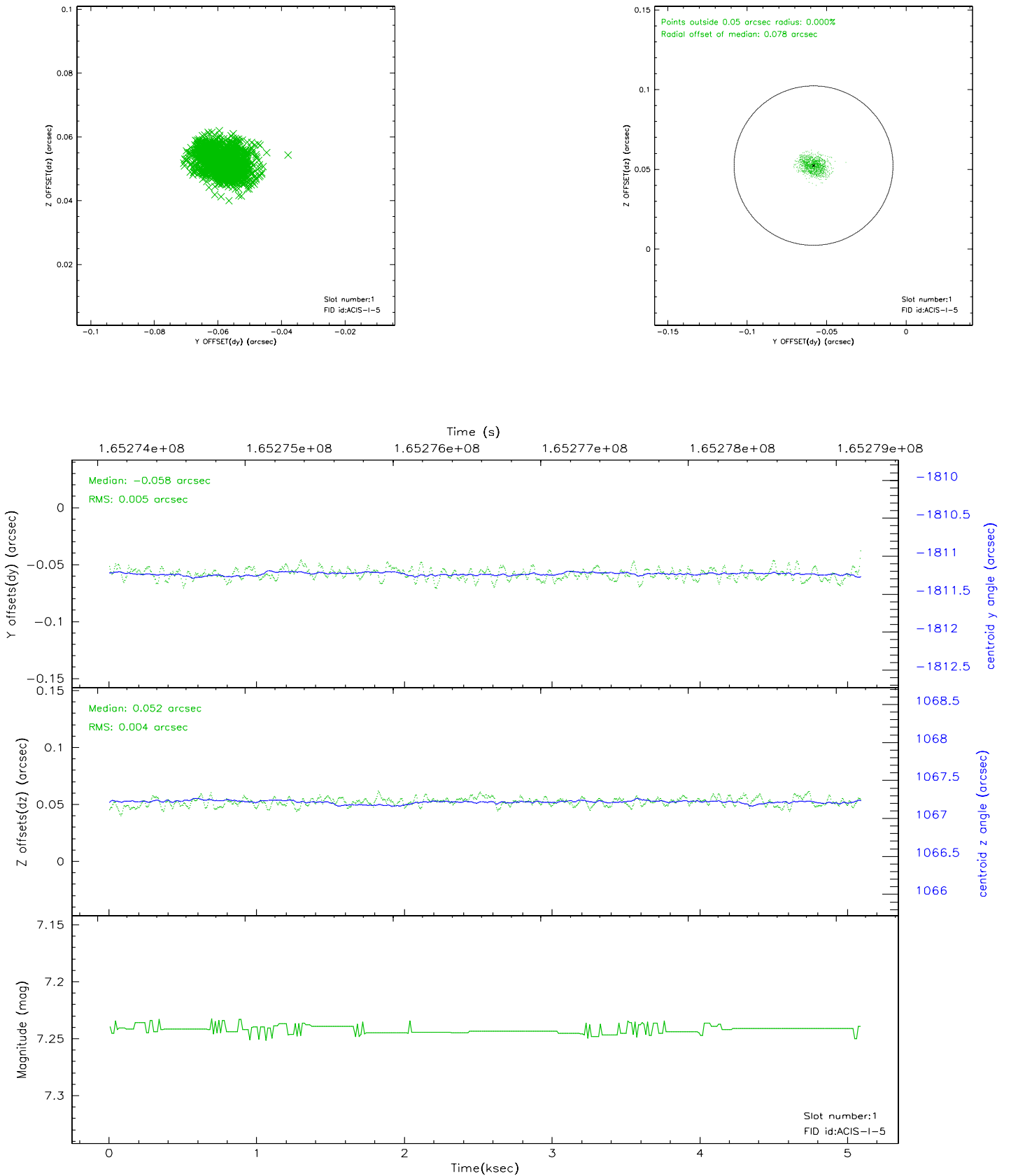


2.5 FID Slots

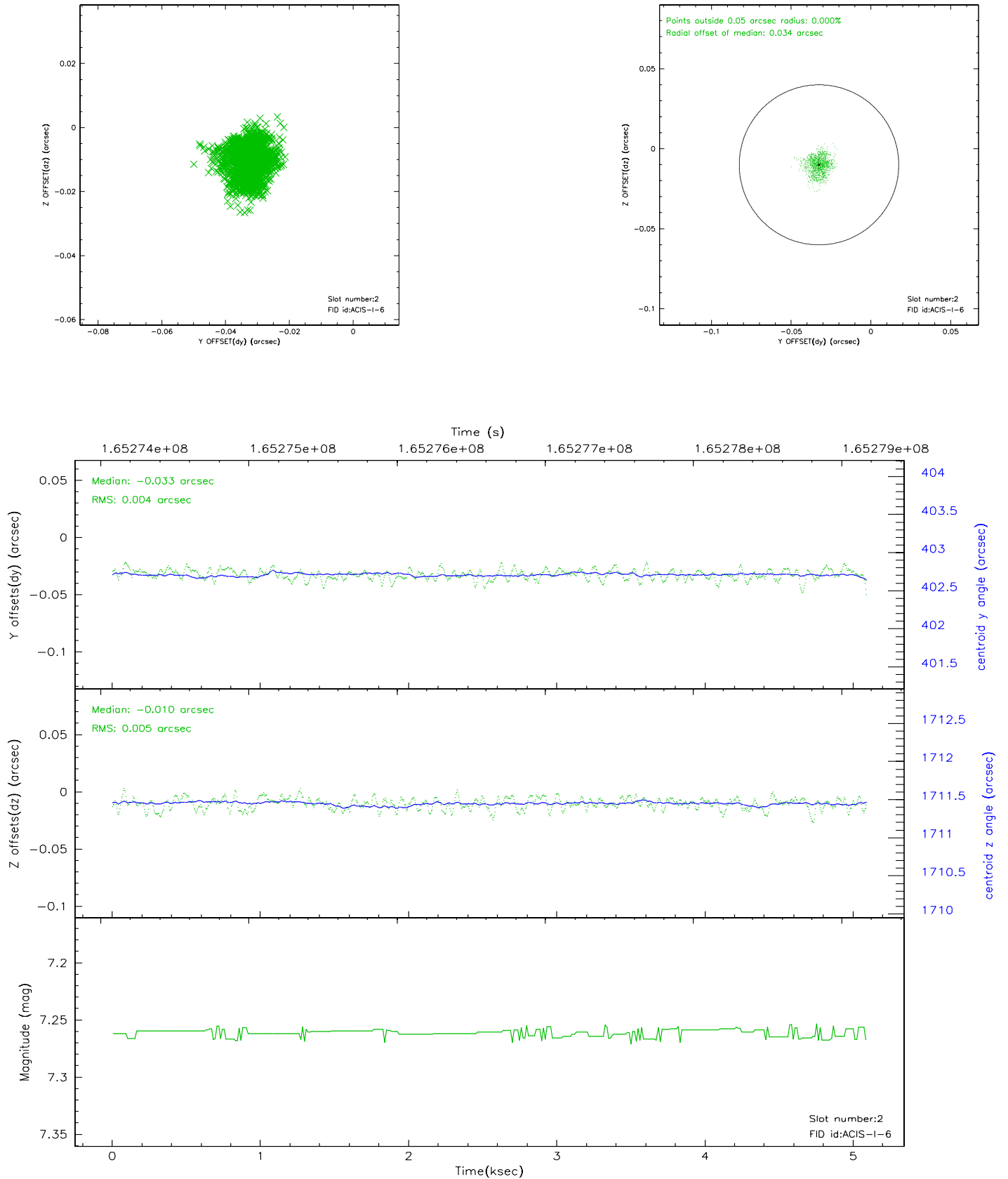
2.5.1 Slot 0



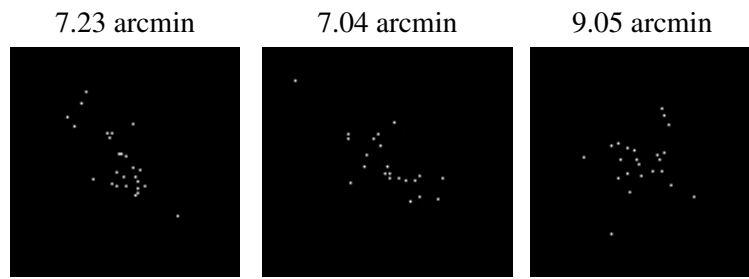
2.5.2 Slot 1



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 | 4.674 |

A.2 Comments