

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2153 - L2 Version 001
Chandra X-Ray Center

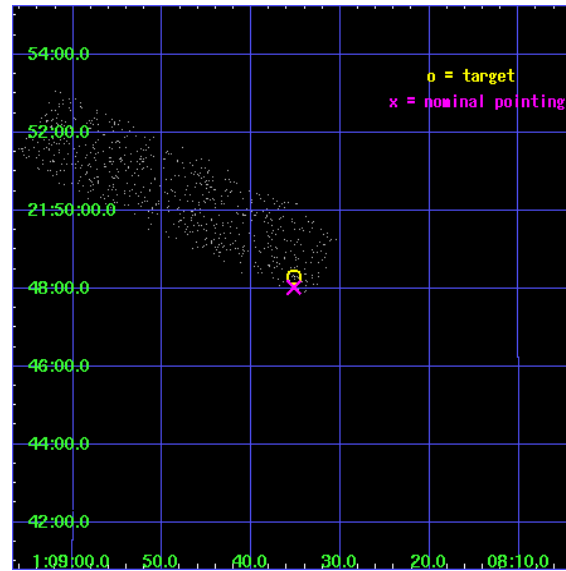
L2 Processing Date : Nov 4 2006

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1 Front

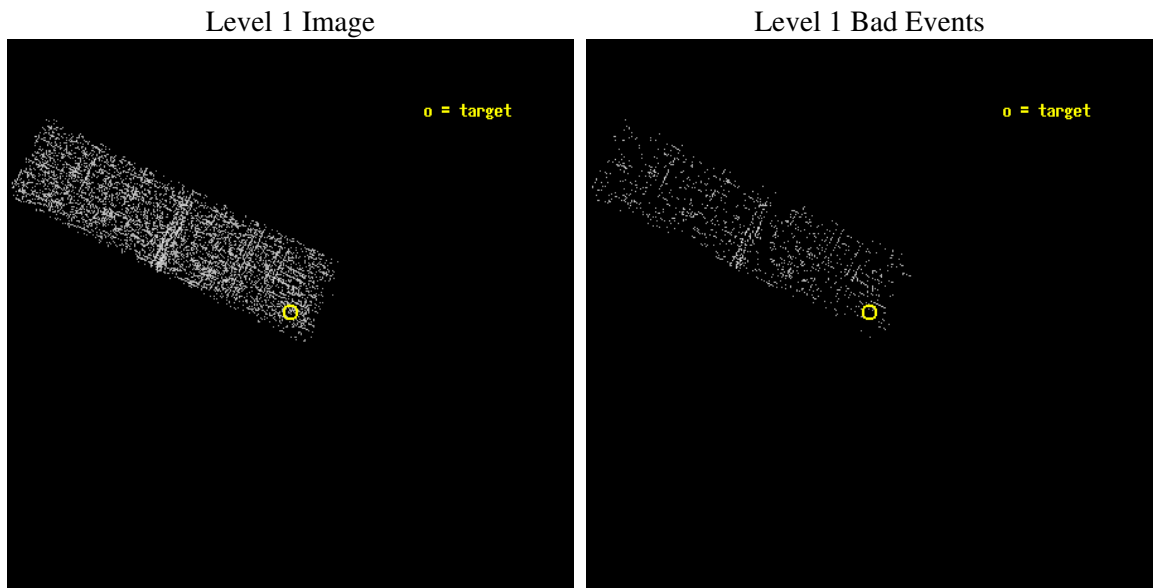
| | |
|----------|--------------------------------------|
| seq_num | 700343 |
| obs_id | 2153 |
| title | RED QUASARS AND THE X-RAY BACKGROUND |
| observer | Dr. BELINDA WILKES |
| object | 2MASSJ010835+2148 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 17.146667 |
| dec_targ | 21.805167 |
| ra_nom | 17.146812009982 |
| dec_nom | 21.800404207006 |
| roll_nom | 296.18982138697 |
| revision | 2 |
| ontime | 3751.1999860257 |
| livetime | 3568.1537011564 |
| ontime3 | 3751.1999860257 |
| l2events | 734 |



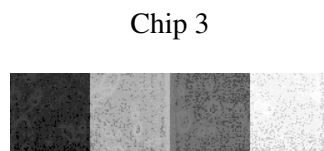
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldbver | 3.2.3 |
| date | 2006-11-04T09:59:49 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 3100.000000 |
| ontime | 3909.1010903865 |
| ontime3 | 3909.1010903865 |
| l1events | 8023 |

2.1.4 Events

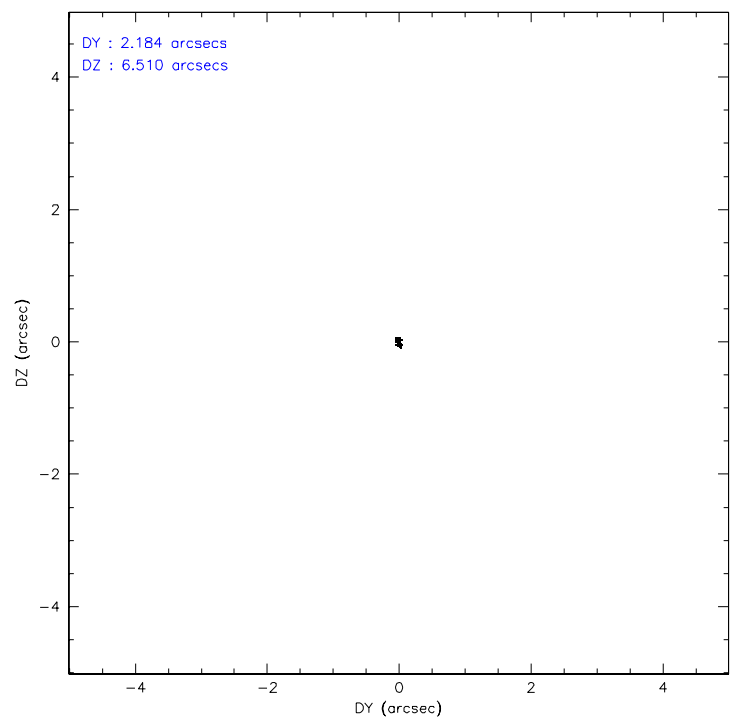
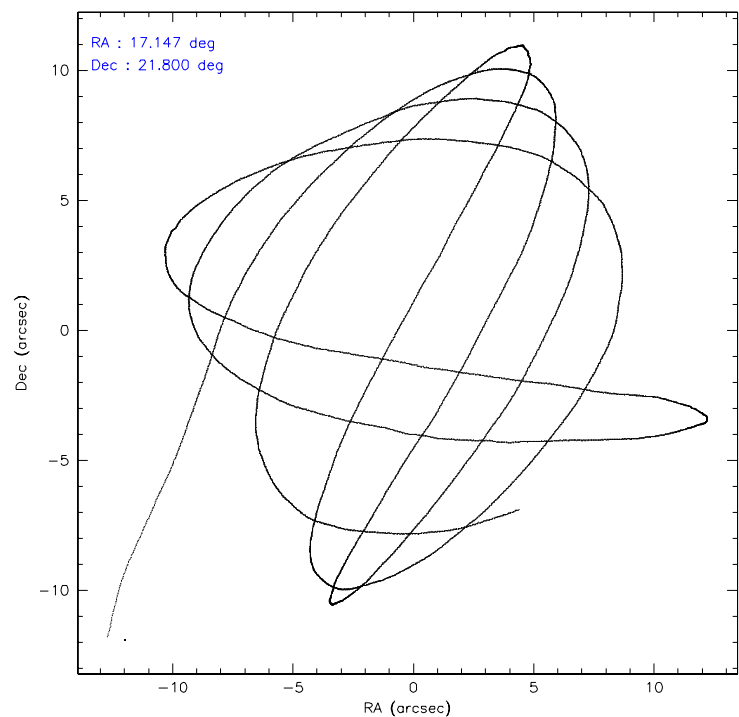
| | |
|-----------------|--------------|
| | ccd 3 |
| level 1 events | 8023 |
| rejected events | 7148 |
| rejected % | 89% |

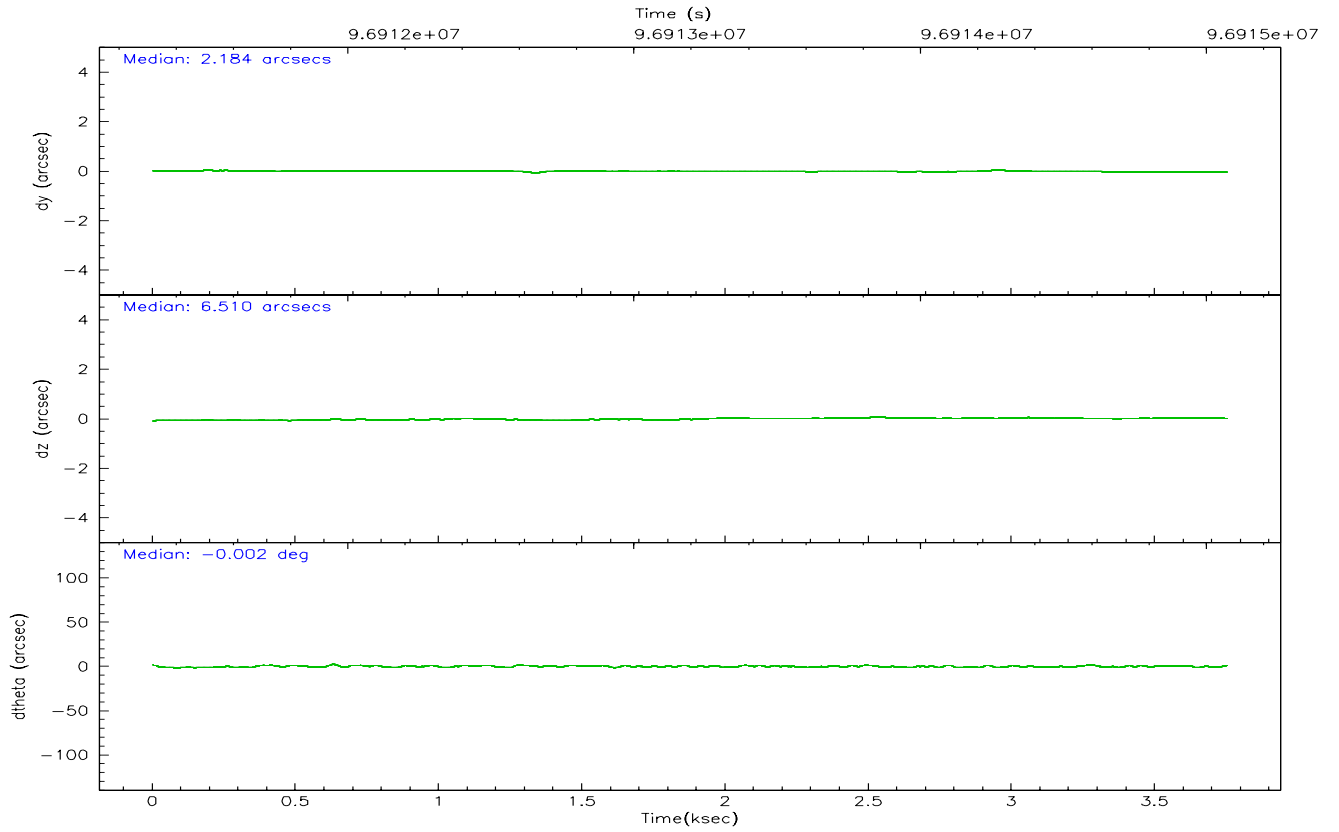
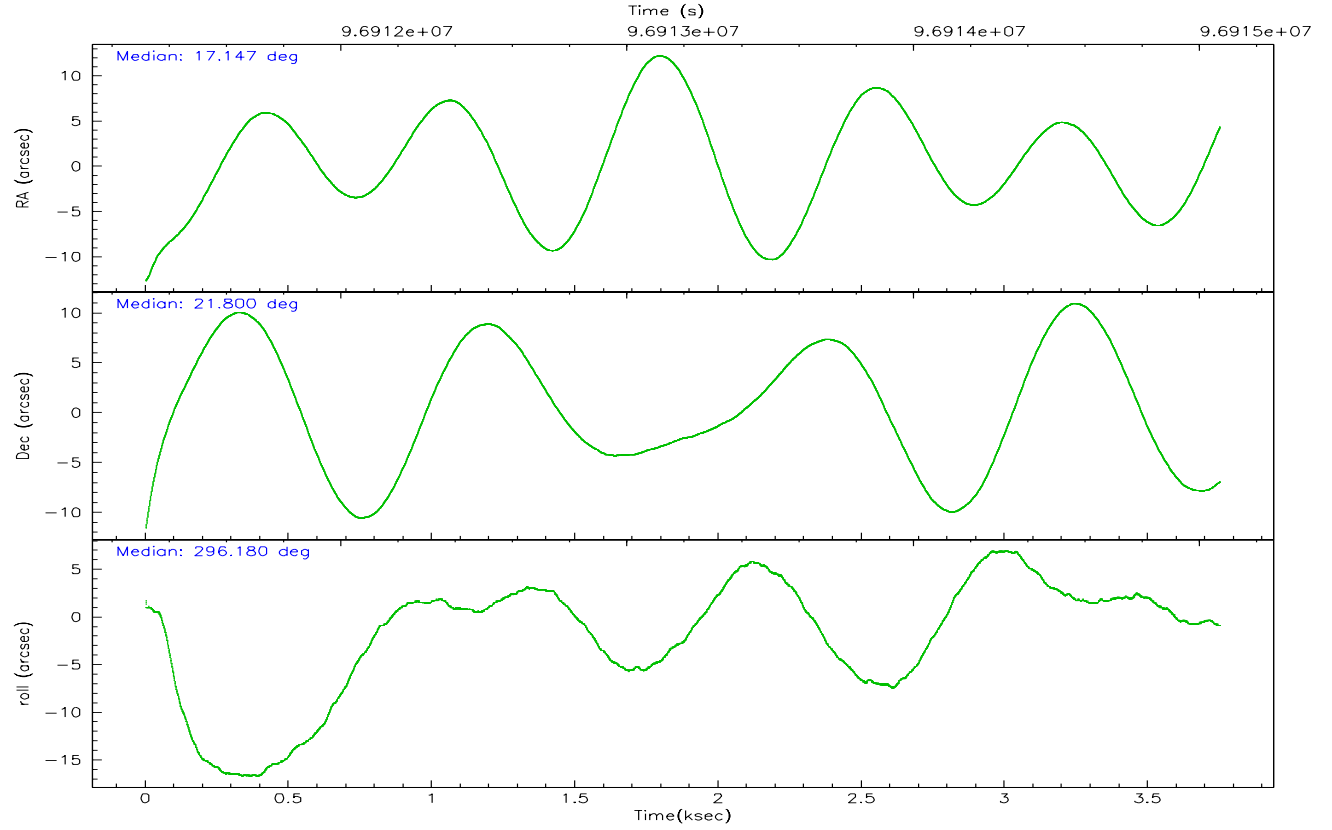
| | |
|----------------|--------------|
| | ccd 3 |
| grade 0 events | 376 |
| | 4% |
| grade 1 events | 1 |
| | 0% |
| grade 2 events | 157 |
| | 1% |
| grade 3 events | 121 |
| | 1% |
| grade 4 events | 128 |
| | 1% |
| grade 5 events | 245 |
| | 3% |
| grade 6 events | 139 |
| | 1% |
| grade 7 events | 6856 |
| | 85% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-3 | ACIS-3 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| Pointing RA | 17.122375 | 17.14681200998172 | Subarray requested | 1/4 | 1/4 |
| Pointing Dec | 21.815676 | 21.80040420700606 | Subarray start row | 0 | 769 |
| Pointing Roll | 295.990216 | 296.189821386974 | Subarray row count | 1024 | 256 |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | Alternating exposures requested | N | N |
| SIM defocus (mm) | 0 | 0.001439871863259334 | Primary exposure time | 0.000000 | 0.8 |
| SIM translation stage pos (mm) | -233.592463 | -233.5874344608287 | | | |
| SIM translation stage offset (mm) | 0 | -0.005018542100998502 | | | |
| Observation start time | 96911975.184000 | 96910778.81136499 | | | |
| Observation start date | 2001-01-26T15:58:31 | 2001-01-26T15:39:38 | | | |
| Observation end time | 96915075.184000 | 96915285.224038 | | | |
| Observation end date | 2001-01-26T16:50:11 | 2001-01-26T16:54:45 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



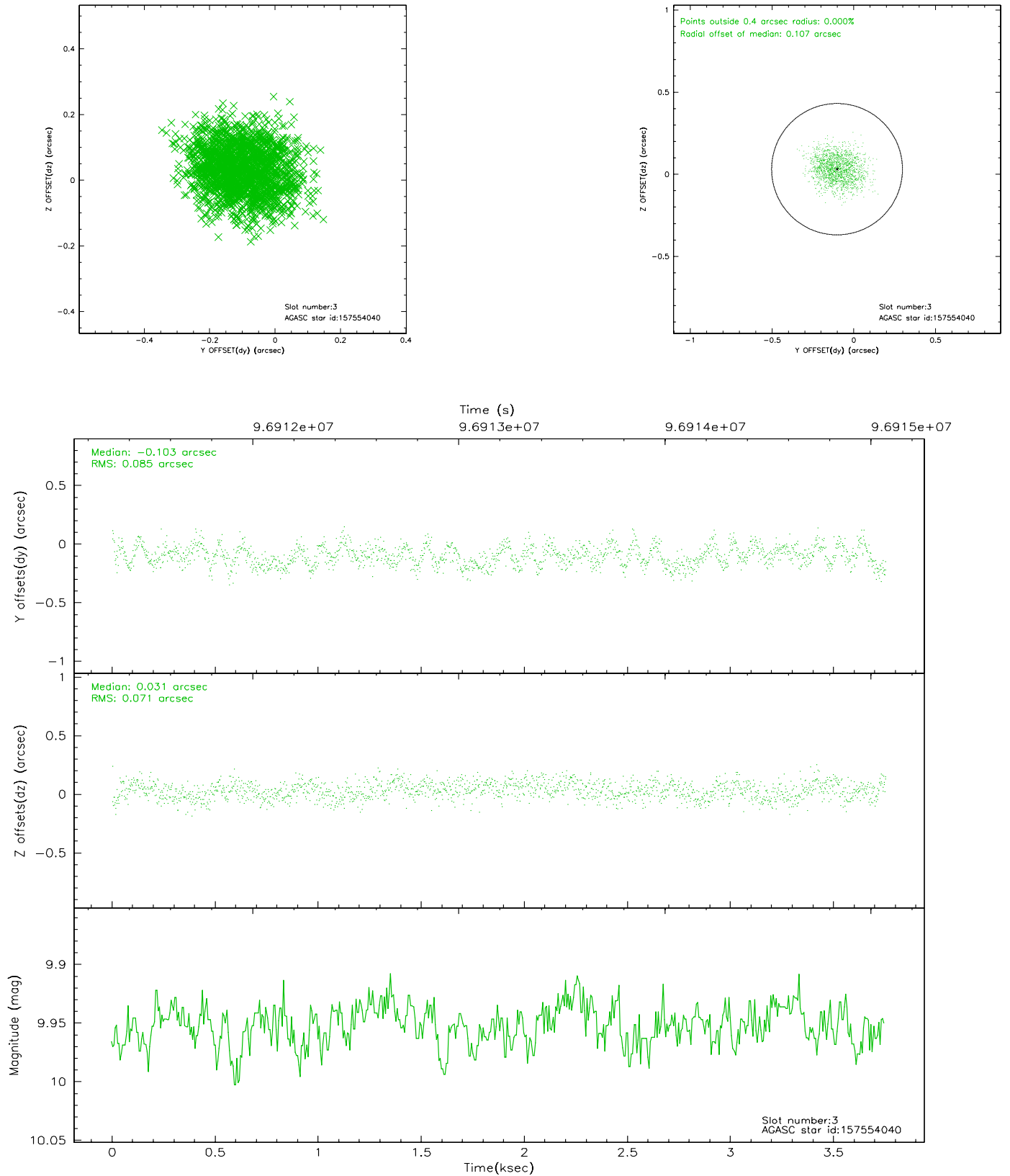


Slot Statistics

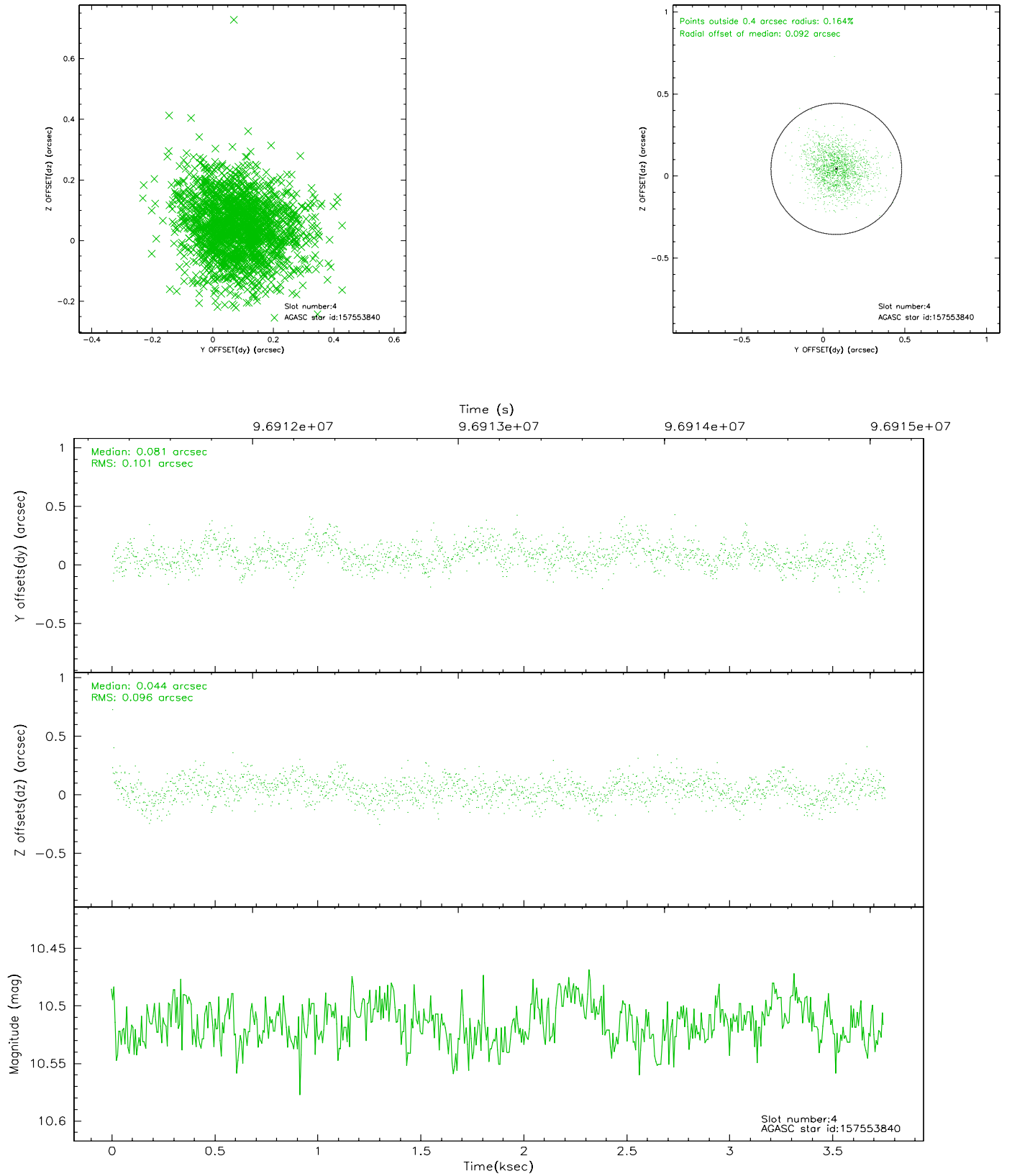
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-I-2 | 7.16 | 915 | -0.019 | -0.023 | 0.010 | 0.017 | 0.000000 | 0.000000 | -756.56 | -836.27 |
| 1 | FID | ACIS-I-4 | 7.18 | 915 | -0.089 | 0.026 | 0.006 | 0.009 | 0.000000 | 0.000000 | 2156.68 | 1069.11 |
| 2 | FID | ACIS-I-5 | 7.23 | 915 | 0.007 | 0.066 | 0.010 | 0.017 | 0.000000 | 0.000000 | -1808.20 | 1068.91 |
| 3 | GUIDE | 157554040 | 9.95 | 1830 | -0.103 | 0.031 | 0.120 | 0.184 | 17.463585 | 22.409479 | -1426.46 | 1957.65 |
| 4 | GUIDE | 157553840 | 10.52 | 1831 | 0.081 | 0.044 | 0.145 | 0.245 | 17.416278 | 21.969877 | -71.69 | 1126.50 |
| 5 | GUIDE | 157553200 | 9.28 | 1830 | 0.156 | 0.012 | 0.083 | 0.135 | 17.090917 | 21.461163 | 1100.28 | -653.42 |
| 6 | GUIDE | 157552464 | 9.09 | 1830 | -0.043 | -0.121 | 0.099 | 0.158 | 16.427317 | 21.638021 | -449.01 | -2369.42 |
| 7 | GUIDE | 157554088 | 9.60 | 1829 | -0.094 | 0.032 | 0.086 | 0.149 | 16.713554 | 22.113708 | -1564.72 | -756.45 |

2.4 Star Slots

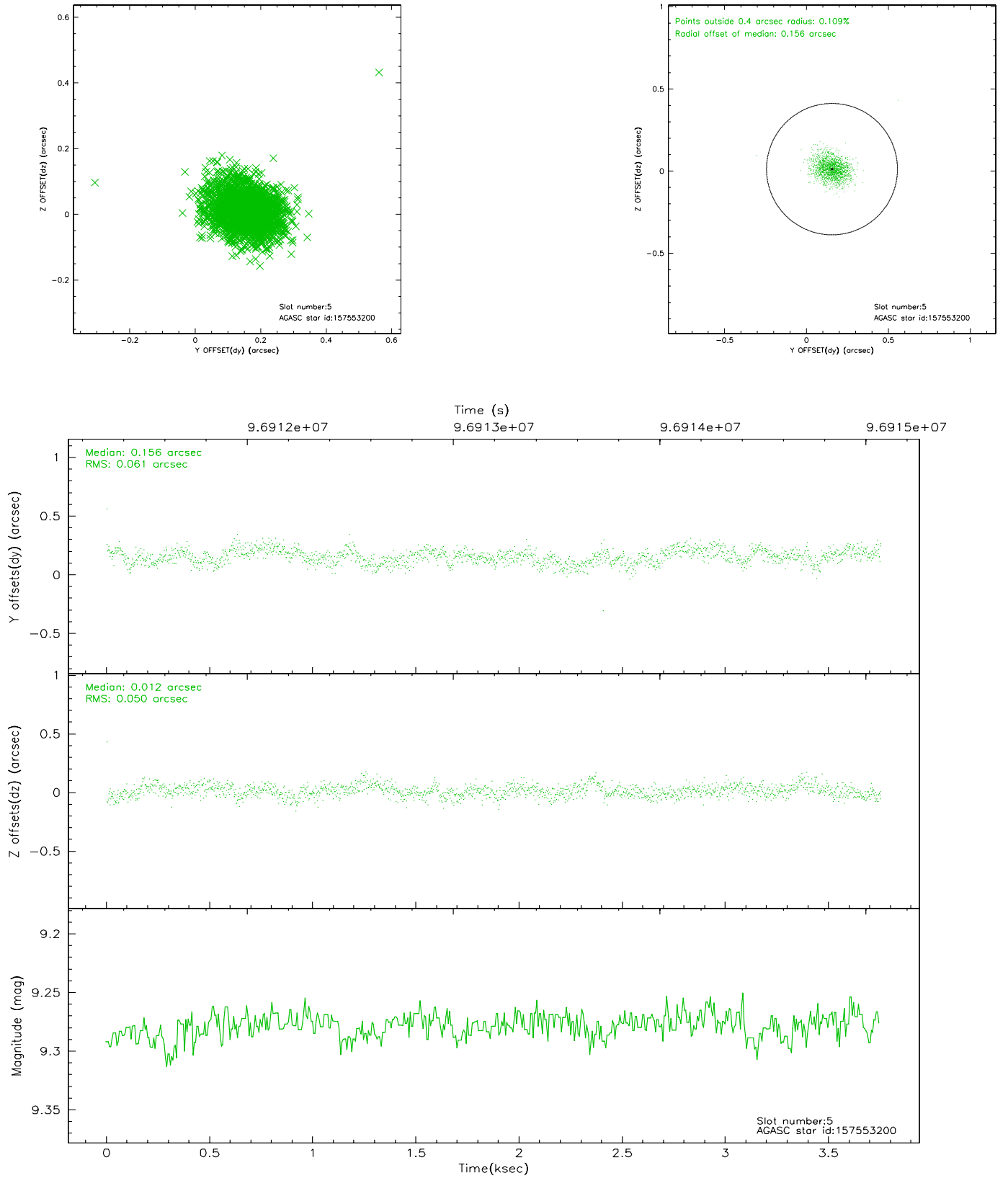
2.4.1 Slot 3



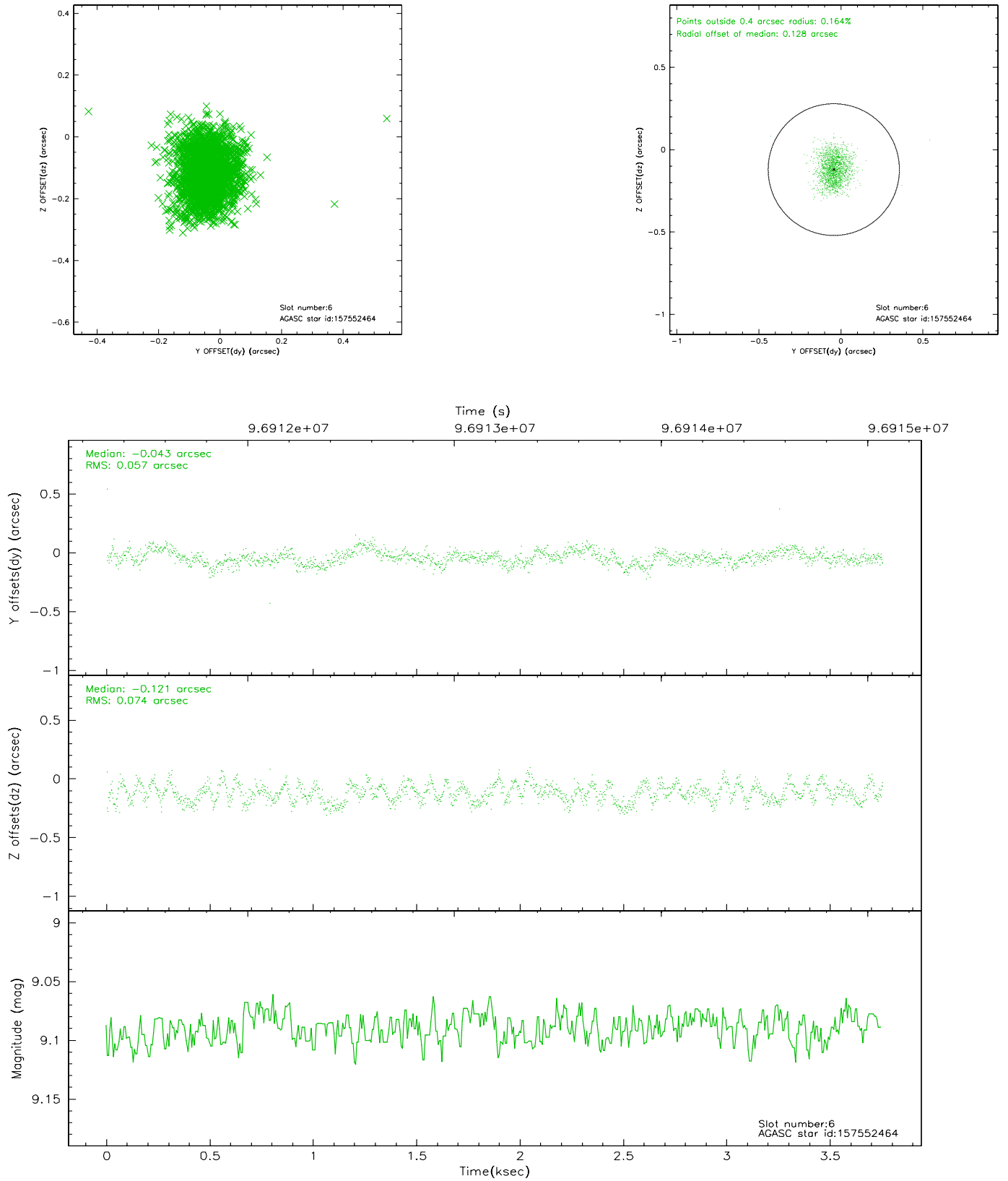
2.4.2 Slot 4



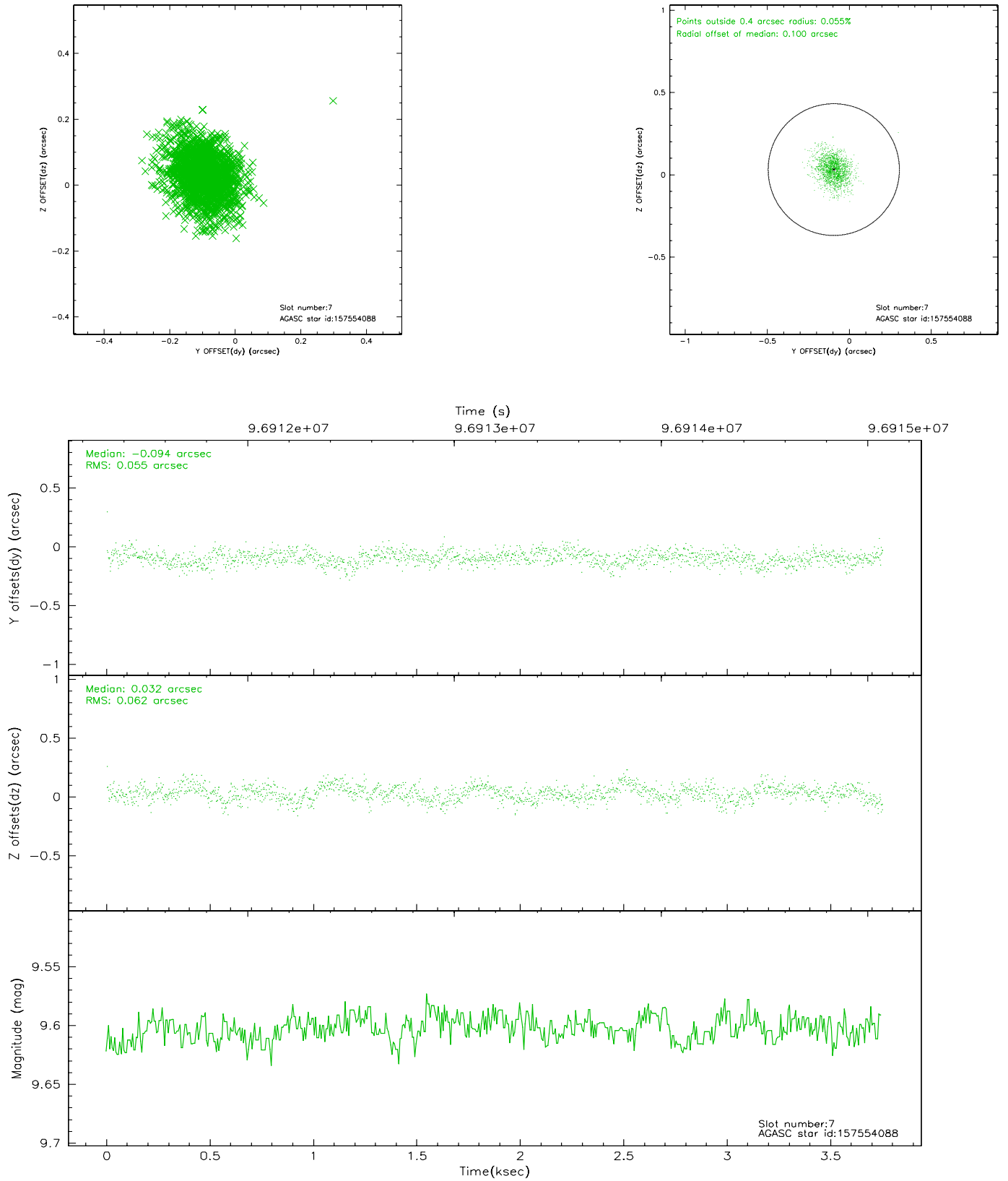
2.4.3 Slot 5



2.4.4 Slot 6

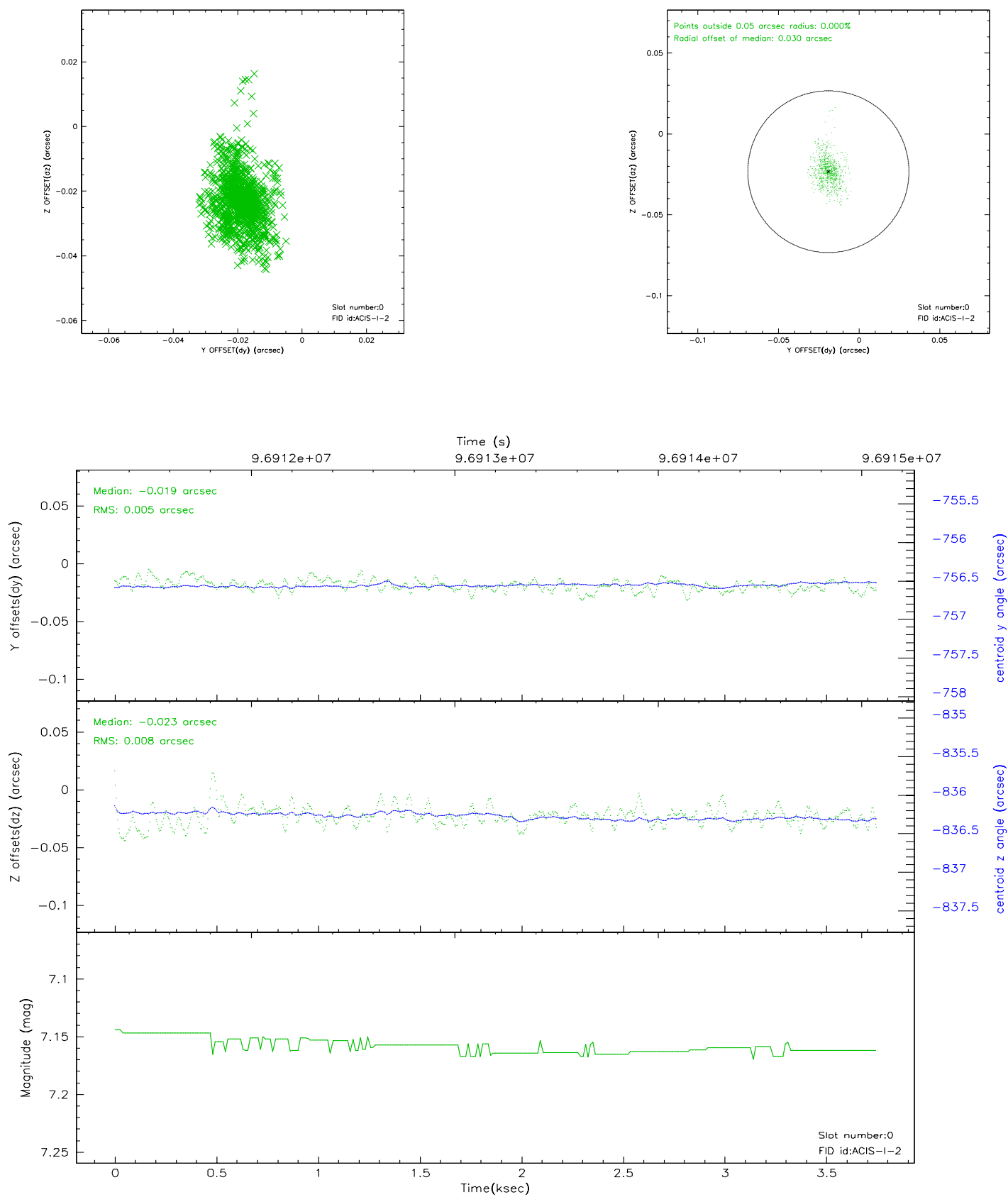


2.4.5 Slot 7

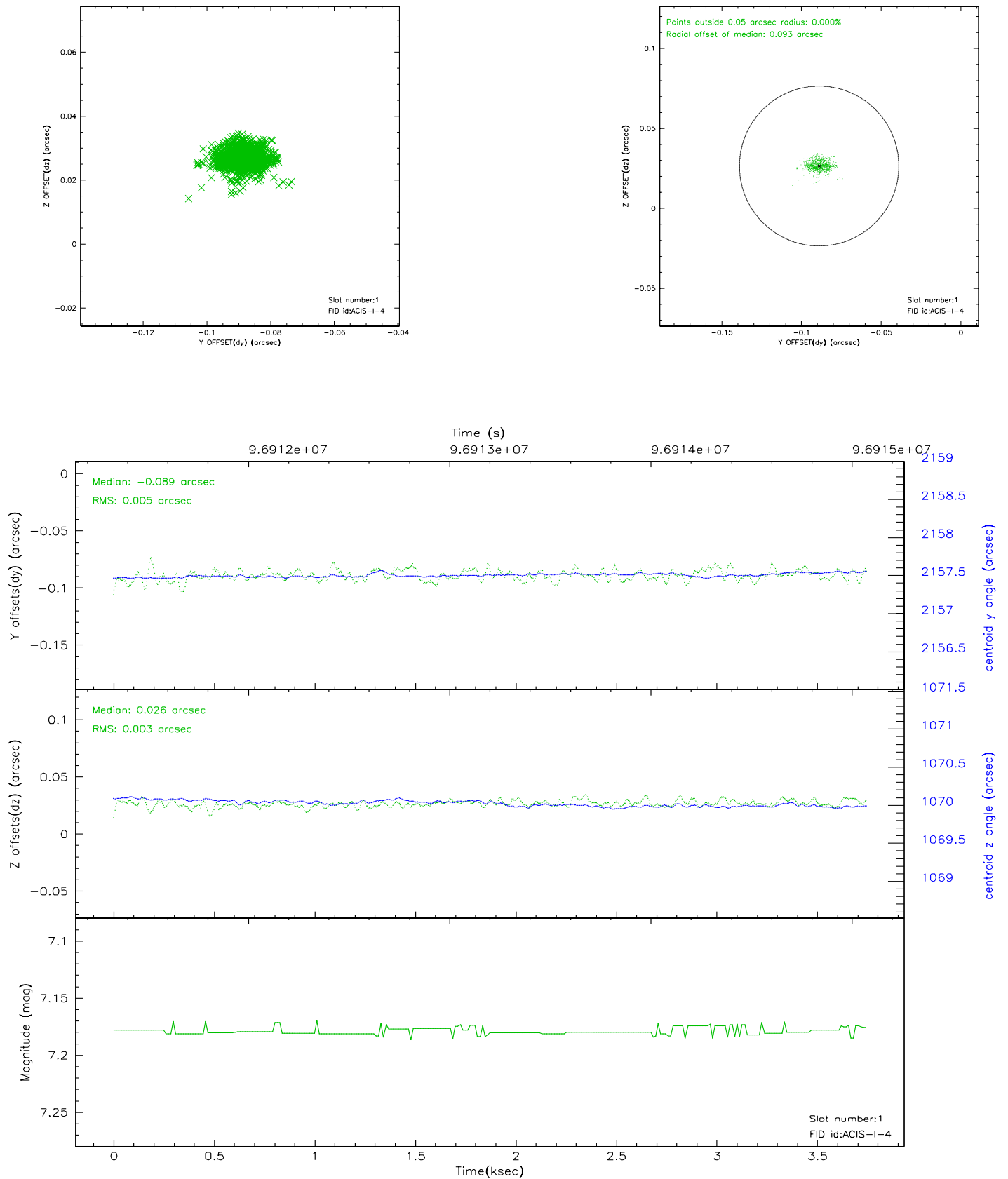


2.5 FID Slots

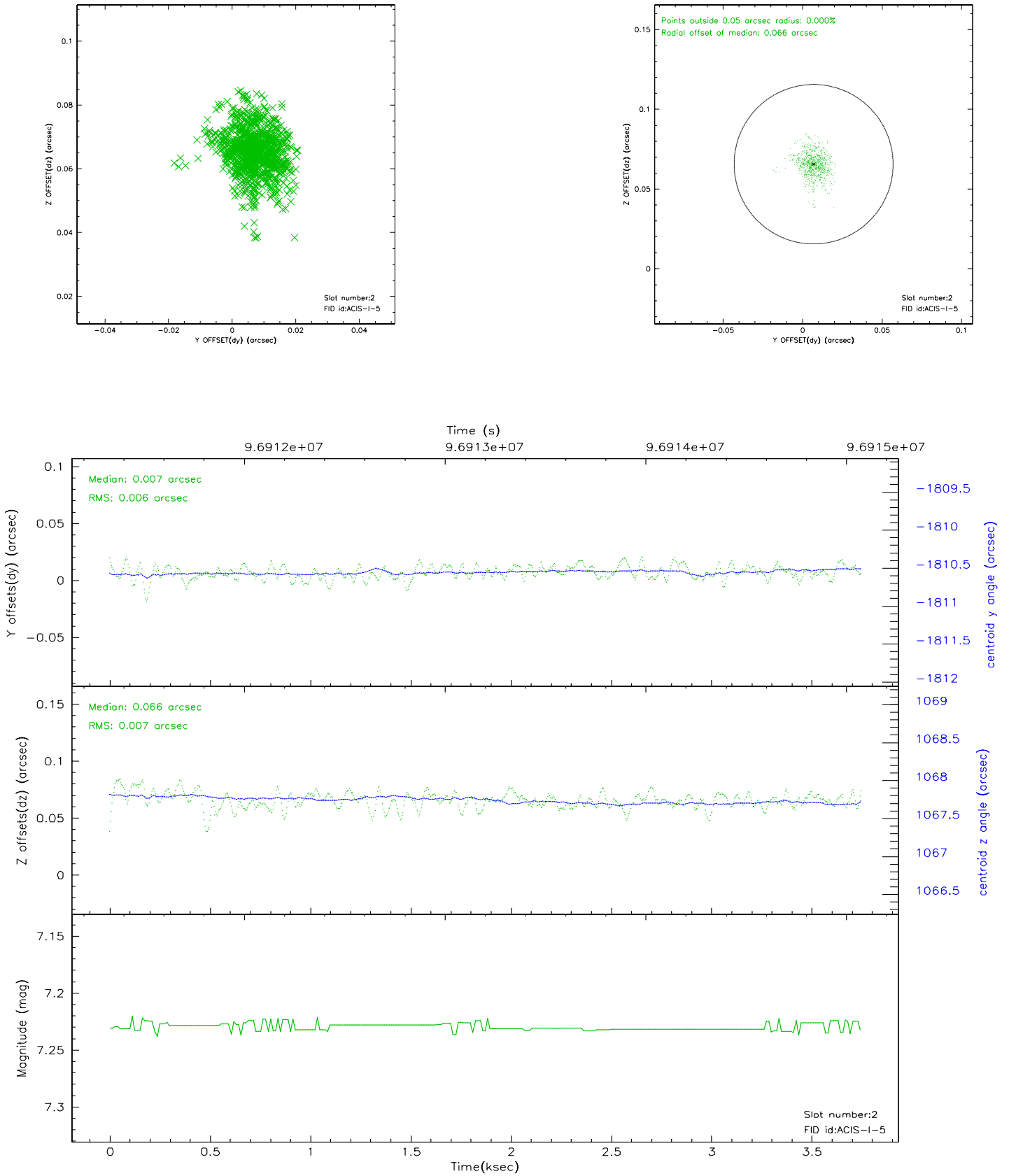
2.5.1 Slot 0



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) | 2006.11.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.751 |

A.2 Comments