

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5640 - L2 Version 002  
Chandra X-Ray Center

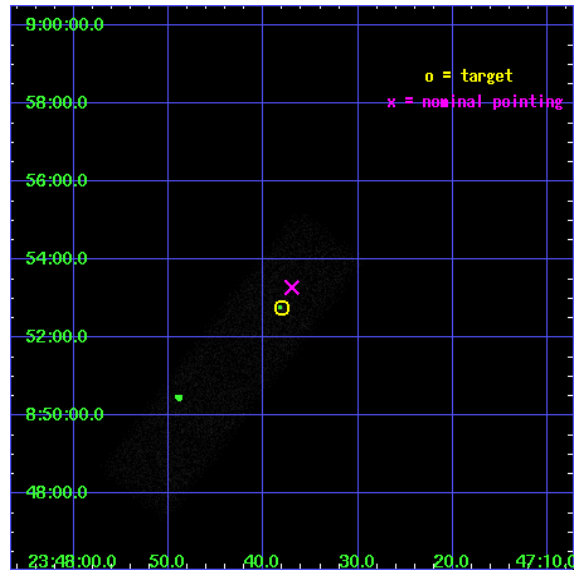
L2 Processing Date : Mar 20 2006

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# 1 Front

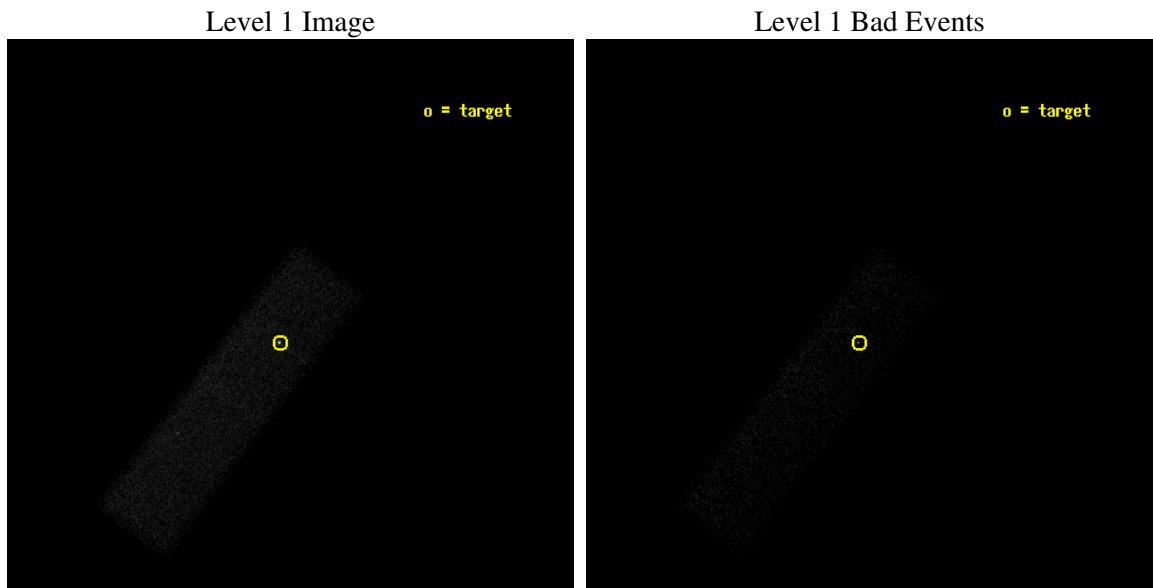
|          |   |
|----------|---|
| seq_num  | 701063  |
| obs_id   | 5640  |
| title    | The Extended X-ray Structure of a New Population of Blazars |
| observer | Dr. Hermine Landt   |
| object   | WGAJ2347+0852   |
| dtcycle  | 0   |
| cycle    | P   |
| ra_targ  | 356.90875   |
| dec_targ | 8.879556  |
| ra_nom   | 356.90420527071   |
| dec_nom  | 8.8881091222139   |
| roll_nom | 127.58693879047   |
| revision | 2   |
| ontime   | 15181.600226223   |
| livetime | 14440.787811494   |
| ontime7  | 15181.600226223   |
| l2events | 21579   |



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

|          |                     |
|----------|---------------------|
| obi_num  | 0                   |
| ascdsver | 7.6.7.1             |
| caldbver | 3.2.1               |
| date     | 2006-03-20T11:23:54 |
| revision | 2                   |

|                |                 |
|----------------|-----------------|
| sched_exp_time | 15000.000000    |
| ontime         | 16675.991764933 |
| ontime7        | 16675.991764933 |
| l1events       | 49839           |

### 2.1.4 Events

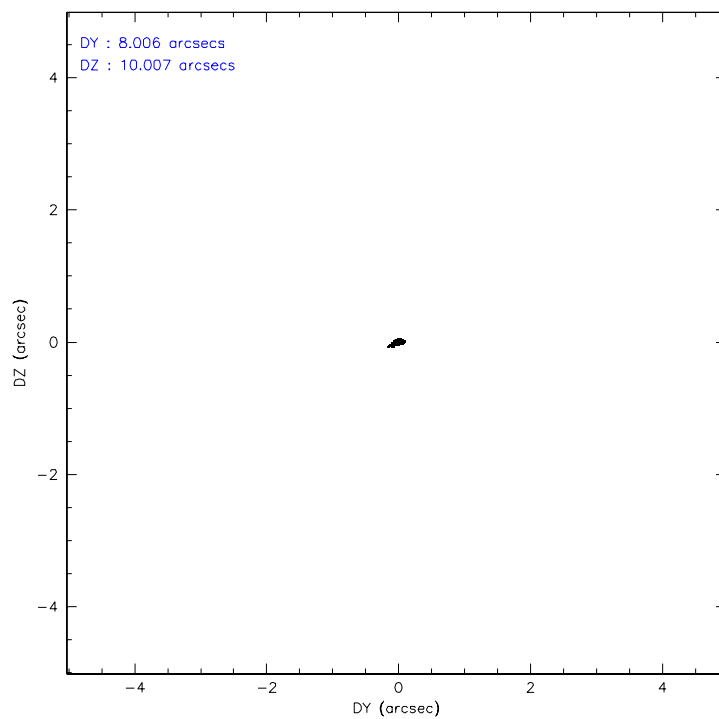
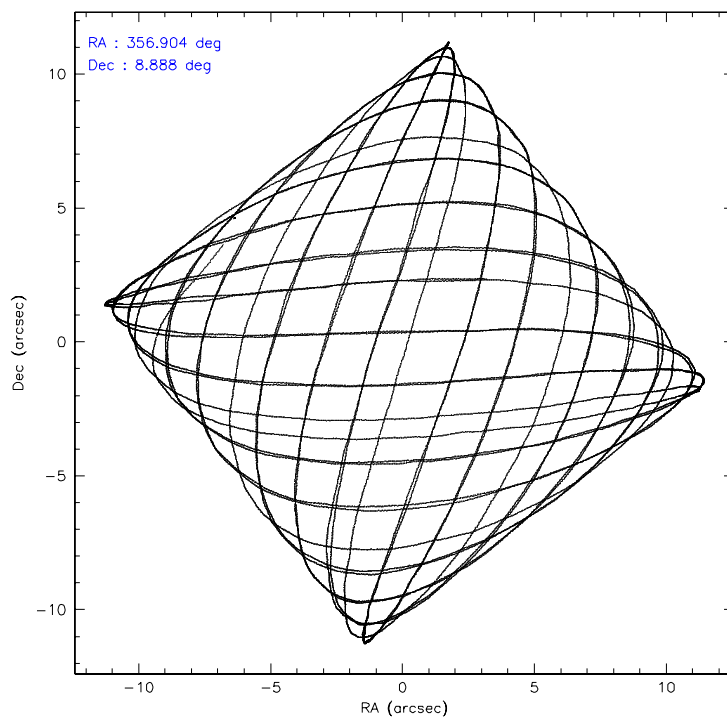
|                 |              |
|-----------------|--------------|
|                 | <b>ccd 7</b> |
| level 1 events  | 49839        |
| rejected events | 27694        |
| rejected %      | 55%          |

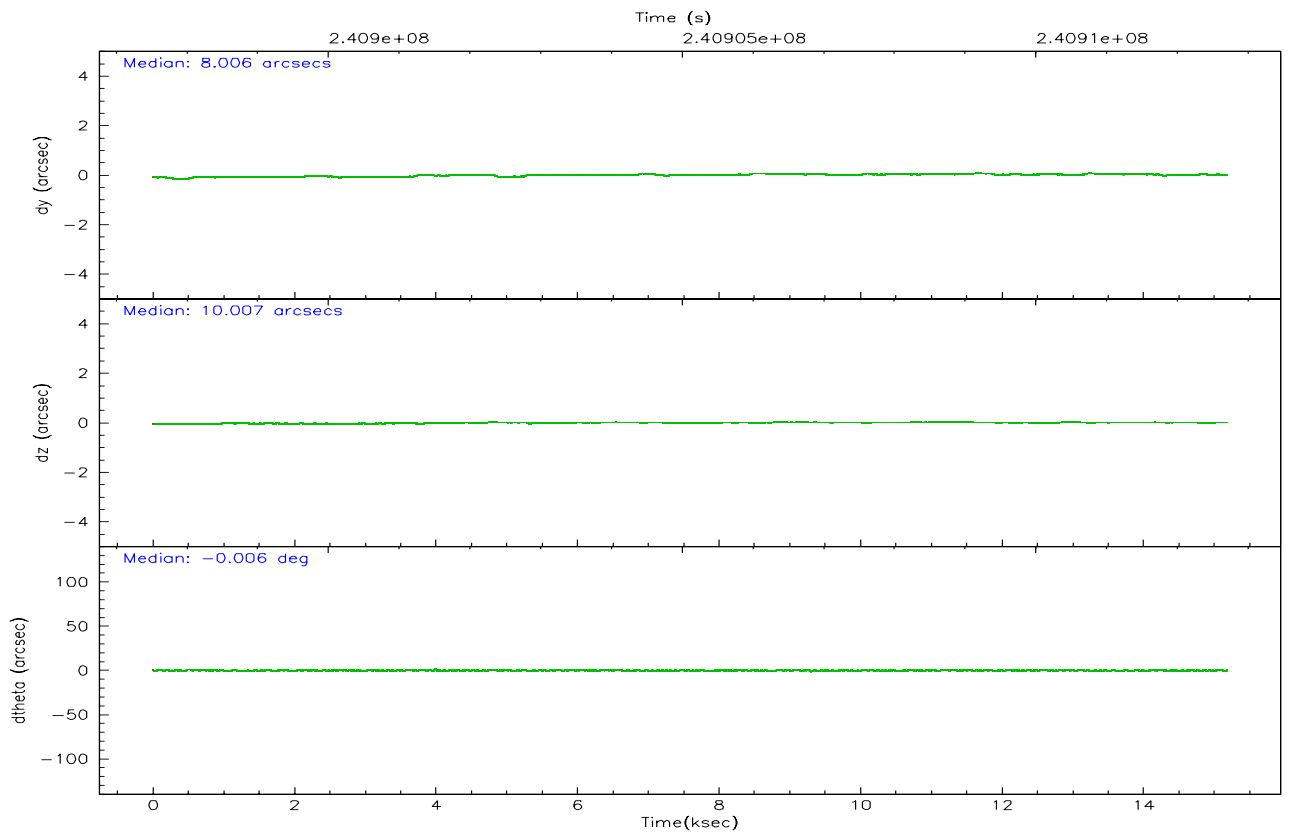
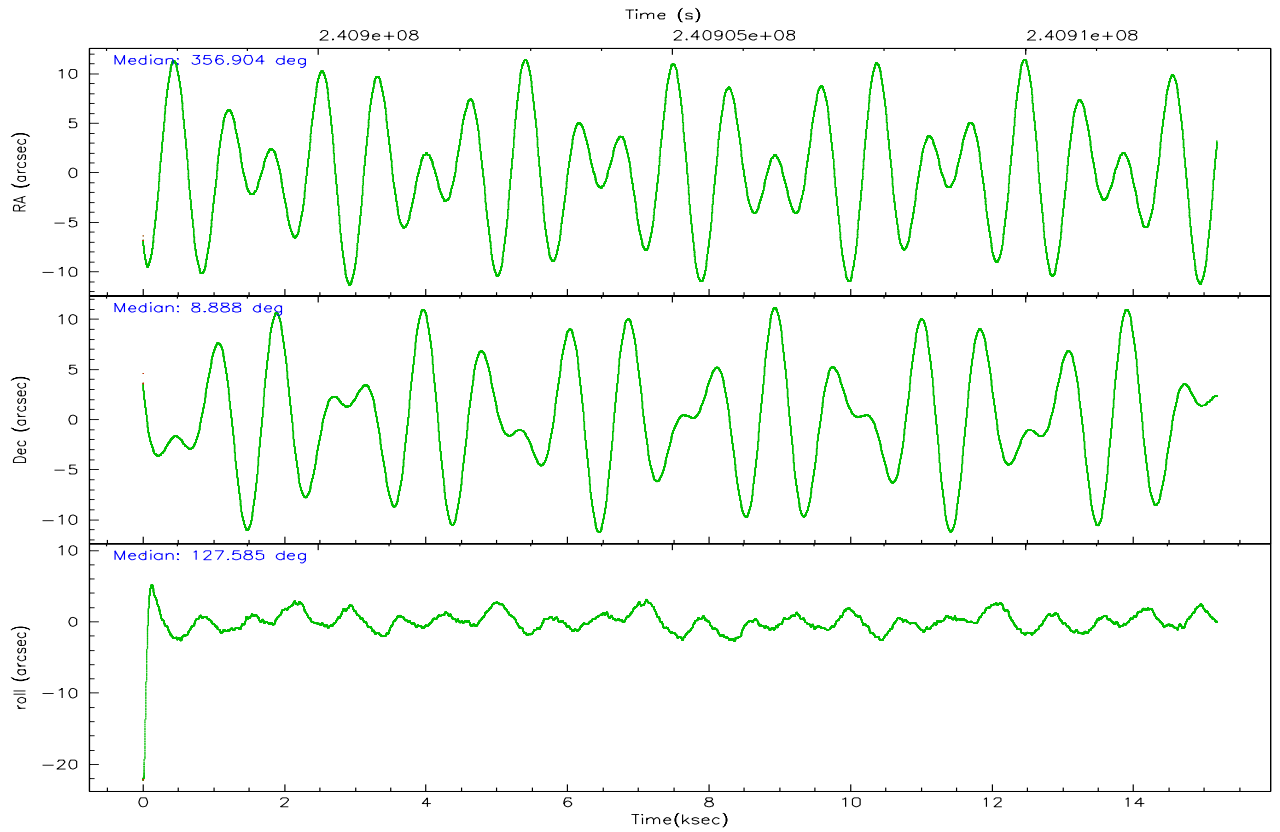
|                |              |
|----------------|--------------|
|                | <b>ccd 7</b> |
| grade 0 events | 2828         |
|                | 5%           |
| grade 1 events | 60           |
|                | 0%           |
| grade 2 events | 5858         |
|                | 11%          |
| grade 3 events | 2151         |
|                | 4%           |
| grade 4 events | 1940         |
|                | 3%           |
| grade 5 events | 3319         |
|                | 6%           |
| grade 6 events | 11022        |
|                | 22%          |
| grade 7 events | 22661        |
|                | 45%          |

## 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              | 1/4       | 1/4     |
| Pointing RA                       | 356.929854          | 356.9042052707098    | Subarray start row              | 0         | 385     |
| Pointing Dec                      | 8.878090            | 8.888109122213882    | Subarray row count              | 1024      | 256     |
| Pointing Roll                     | 127.426375          | 127.5869387904703    | Alternating exposures requested | N         | N       |
| SIM focus pos (mm)                | -0.684267           | -0.6828225247311905  | Primary exposure time           | 0.000000  | 0.8     |
| 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            | 240897703.184000    | 240896027.59538      |                                 |           |         |
| Observation start date            | 2005-08-20T04:00:39 | 2005-08-20T03:33:47  |                                 |           |         |
| Observation end time              | 240912703.184000    | 240914206.48371      |                                 |           |         |
| Observation end date              | 2005-08-20T08:10:39 | 2005-08-20T08:36:46  |                                 |           |         |
| Read mode                         | TIMED               | TIMED                |                                 |           |         |

## 2.3 Aspect



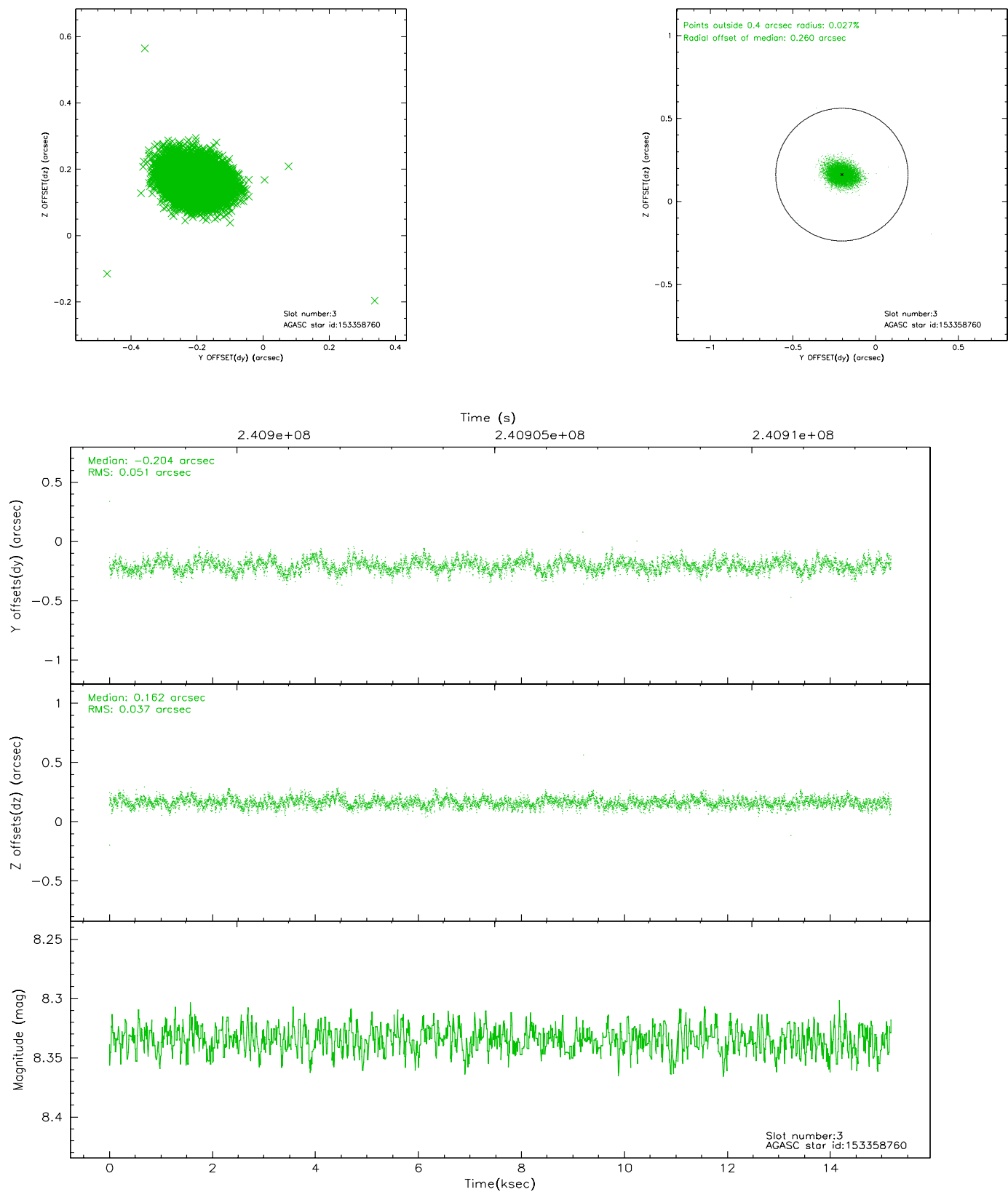


### Slot Statistics

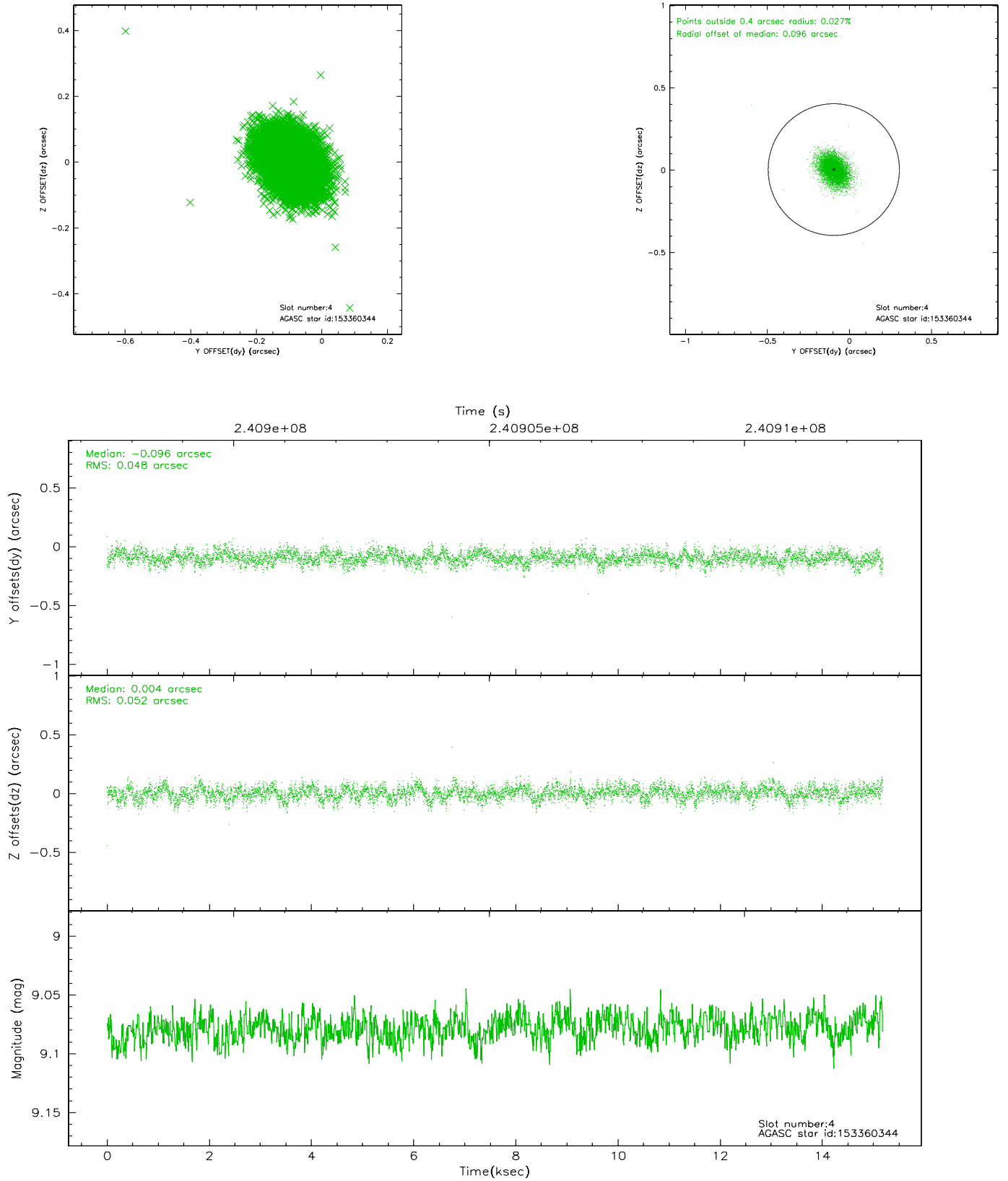
| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra         | dec      | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|----------|----------|----------|
| 0    | FID    | ACIS-S-1  | 7.19 | 3704  | 0.026  | -0.015 | 0.006 | 0.011 | 0.000000   | 0.000000 | 935.30   | -1726.83 |
| 1    | FID    | ACIS-S-5  | 7.24 | 3703  | -0.073 | 0.018  | 0.007 | 0.011 | 0.000000   | 0.000000 | -1813.64 | 170.43   |
| 2    | FID    | ACIS-S-6  | 7.36 | 3704  | 0.026  | 0.009  | 0.007 | 0.012 | 0.000000   | 0.000000 | 400.52   | 814.73   |
| 3    | GUIDE  | 153358760 | 8.33 | 7402  | -0.204 | 0.162  | 0.066 | 0.108 | 356.765278 | 9.548473 | 2271.27  | -1002.64 |
| 4    | GUIDE  | 153360344 | 9.08 | 7402  | -0.096 | 0.004  | 0.074 | 0.123 | 356.395895 | 8.968263 | 1412.91  | 1309.74  |
| 5    | GUIDE  | 153361304 | 6.93 | 7407  | 0.070  | -0.035 | 0.060 | 0.097 | 357.050530 | 8.245596 | -2069.60 | 1042.43  |
| 6    | GUIDE  | 153363728 | 7.69 | 7345  | 0.055  | -0.105 | 0.060 | 0.095 | 357.077402 | 8.188736 | -2290.69 | 1090.60  |
| 7    | GUIDE  | 153361184 | 9.78 | 7401  | 0.172  | -0.029 | 0.107 | 0.172 | 356.028772 | 8.942994 | 2135.90  | 2400.75  |

## 2.4 Star Slots

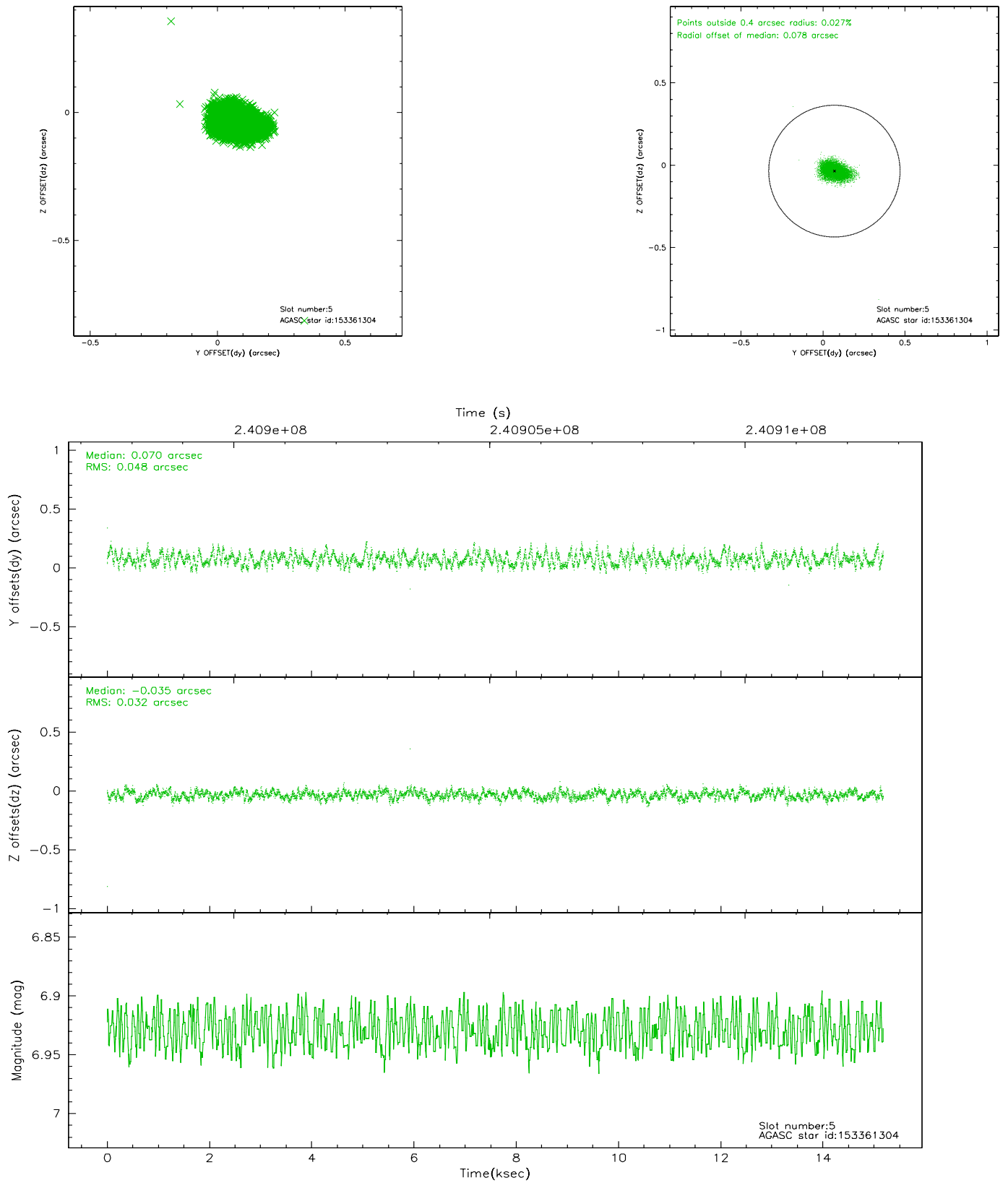
### 2.4.1 Slot 3



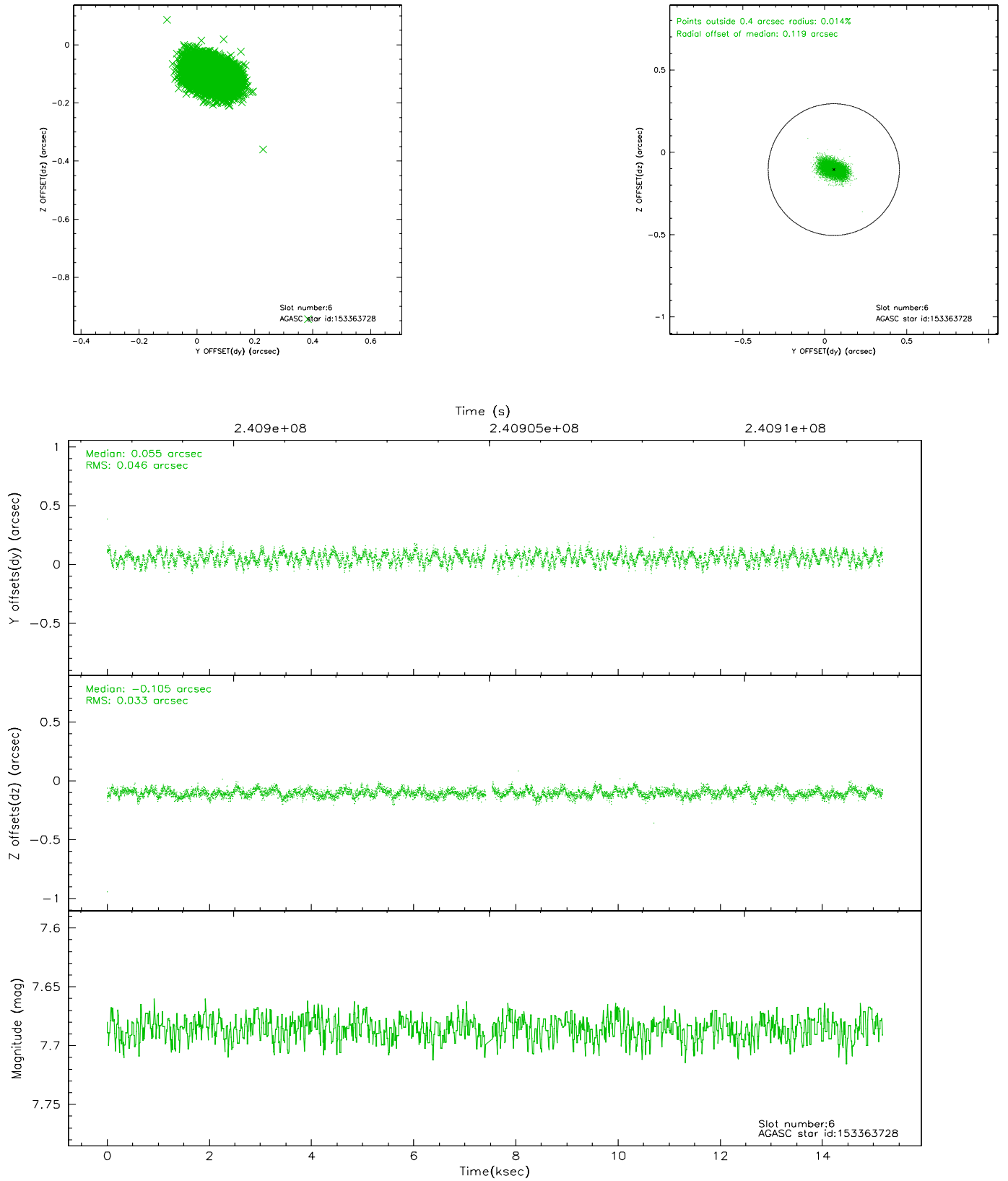
## 2.4.2 Slot 4



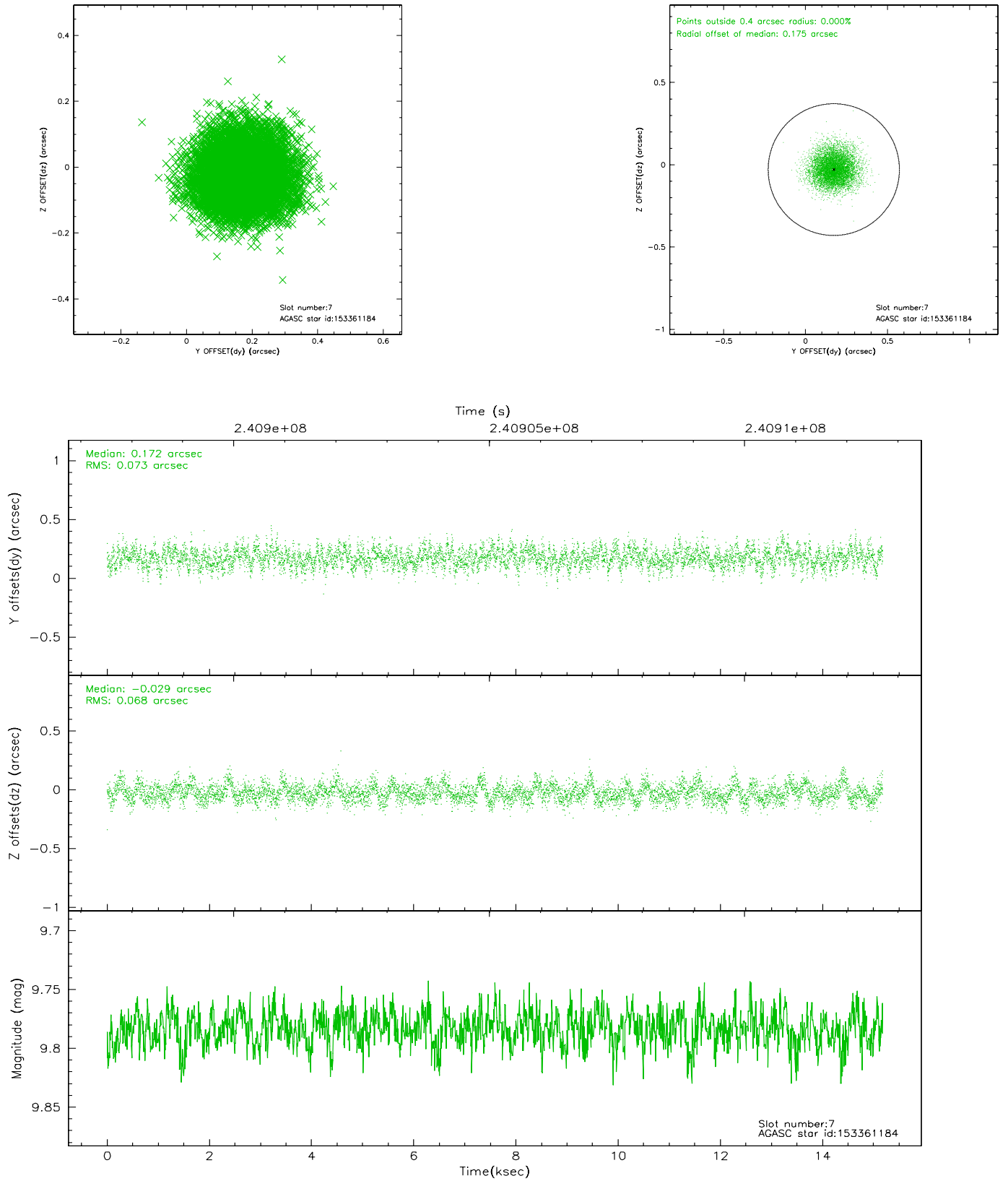
### 2.4.3 Slot 5



## 2.4.4 Slot 6

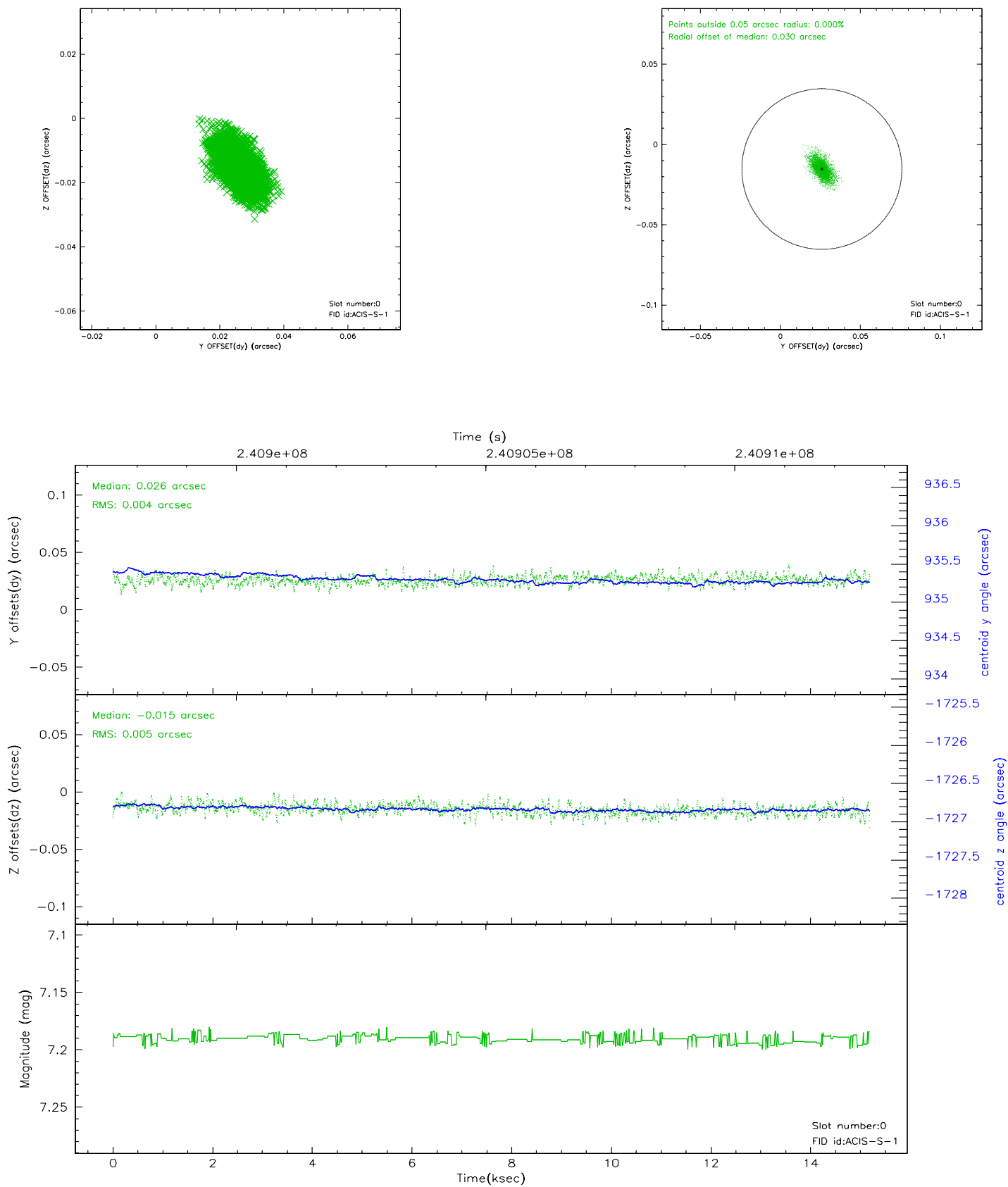


## 2.4.5 Slot 7

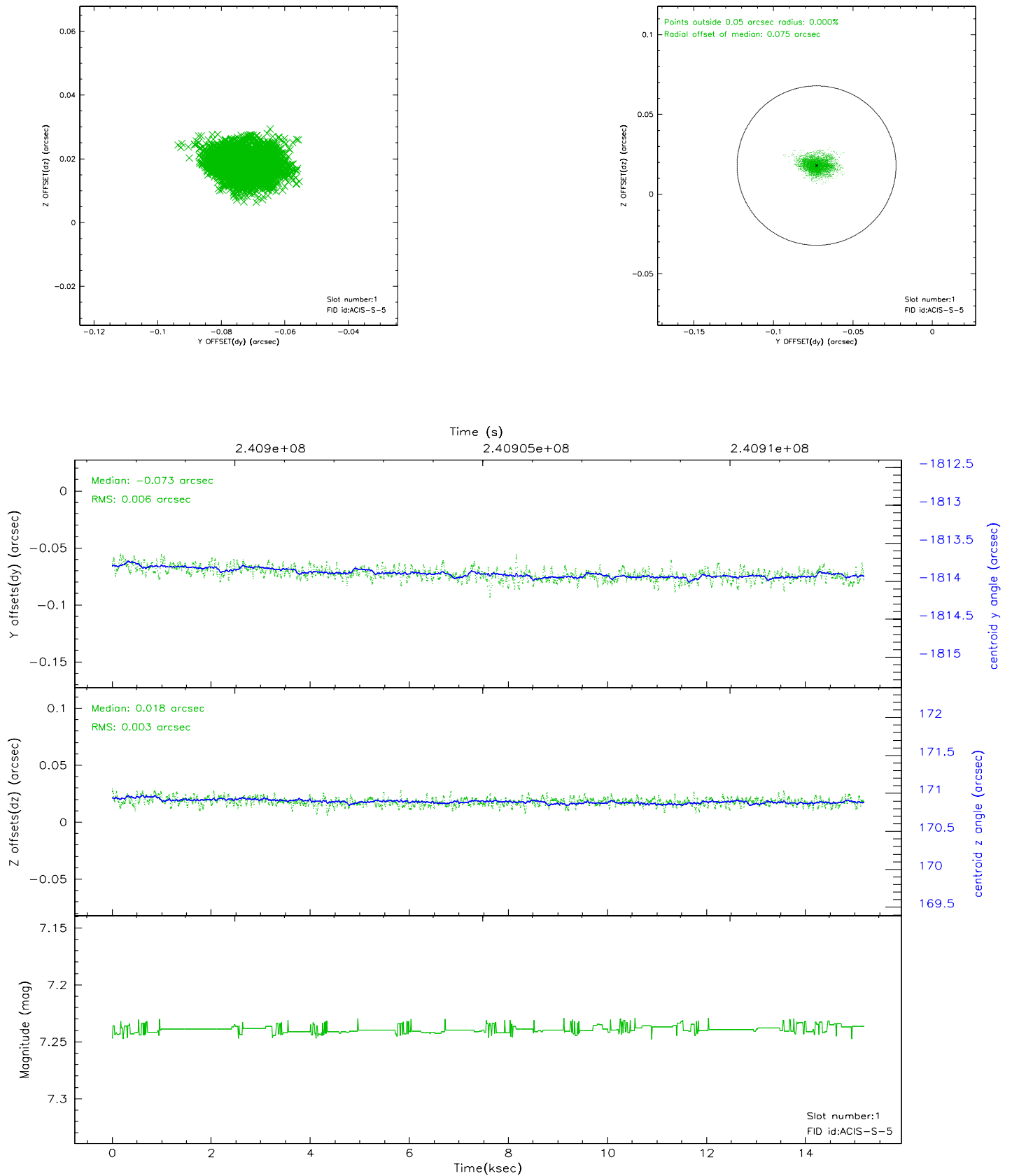


## 2.5 FID Slots

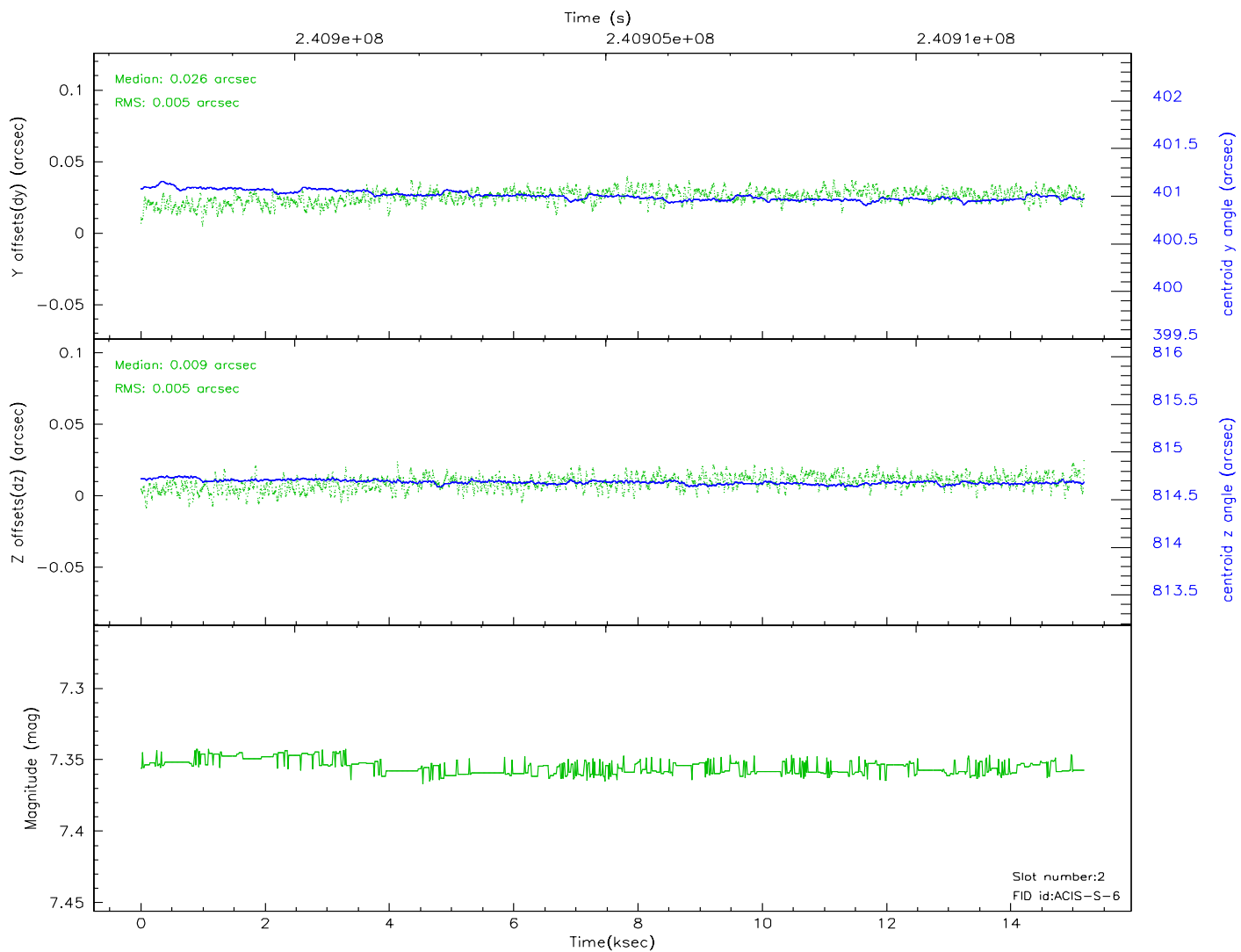
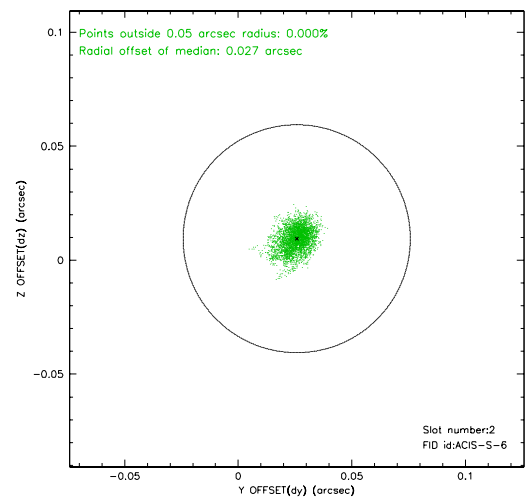
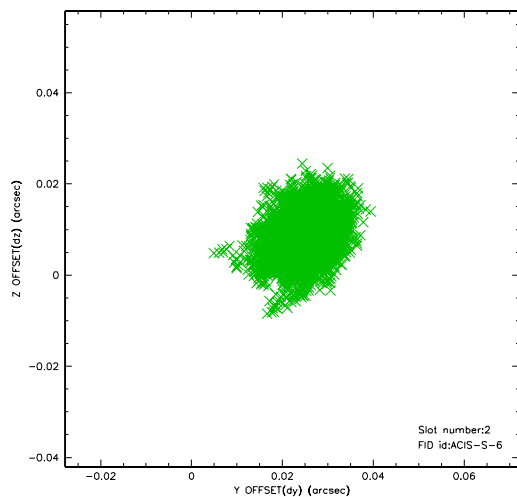
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources

4.07 arcmin



## A Summary

### A.1 Status

|                            |            |
|----------------------------|------------|
| V&V Scientist              | Jen Lauer  |
| V&V Date (YYYY-MM-DD)      | 2006.03.20 |
| V&V Edition                | 1          |
| V&V Disposition and Status | OK         |
| V&V Charge Time            | 15.1816    |

### A.2 Comments

Roll preference met.