

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2984 - L2 Version 001  
Chandra X-Ray Center

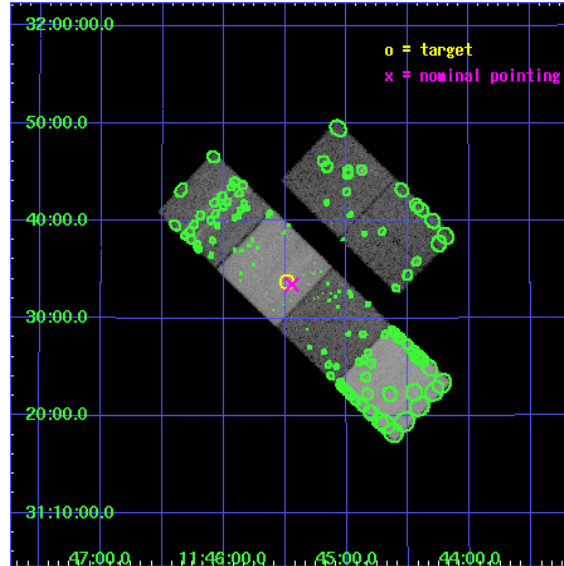
L2 Processing Date : Sep 14 2006

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# 1 Front

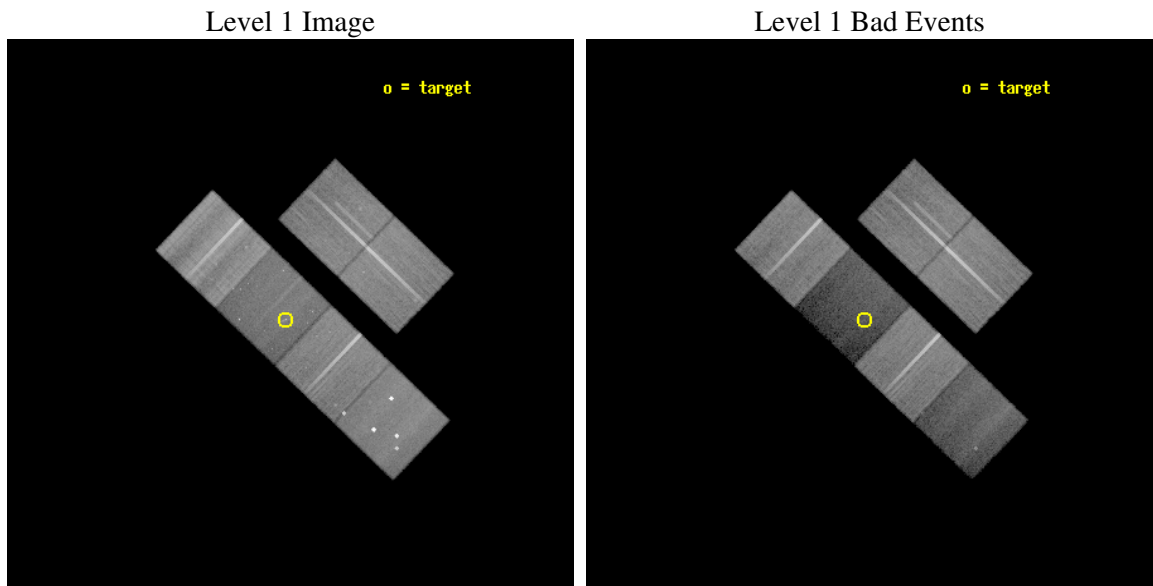
|          |  |
|----------|--|
| seq_num  | 700423   |
| obs_id   | 2984   |
| title    | UNVEILING THE POWERFUL QUASAR HIDDEN IN THE NUCLEUS OF THE FR II RADIO GALAXY 3C 265 |
| observer | DR. MARCO BONDI  |
| object   | 3C 265   |
| dtcycle  | 0  |
| cycle    | P  |
| ra_targ  | 176.370833   |
| dec_targ | 31.563611  |
| ra_nom   | 176.3613534822   |
| dec_nom  | 31.558250109307  |
| roll_nom | 223.71613357356  |
| revision | 2  |
| ontime   | 59676.799777687  |
| livetime | 58921.136205847  |
| ontime2  | 59673.558807433  |
| ontime3  | 59670.317817241  |
| ontime5  | 59676.799777687  |
| ontime6  | 59676.799777687  |
| ontime7  | 59676.799777687  |
| ontime8  | 59676.799777687  |
| l2events | 362992   |



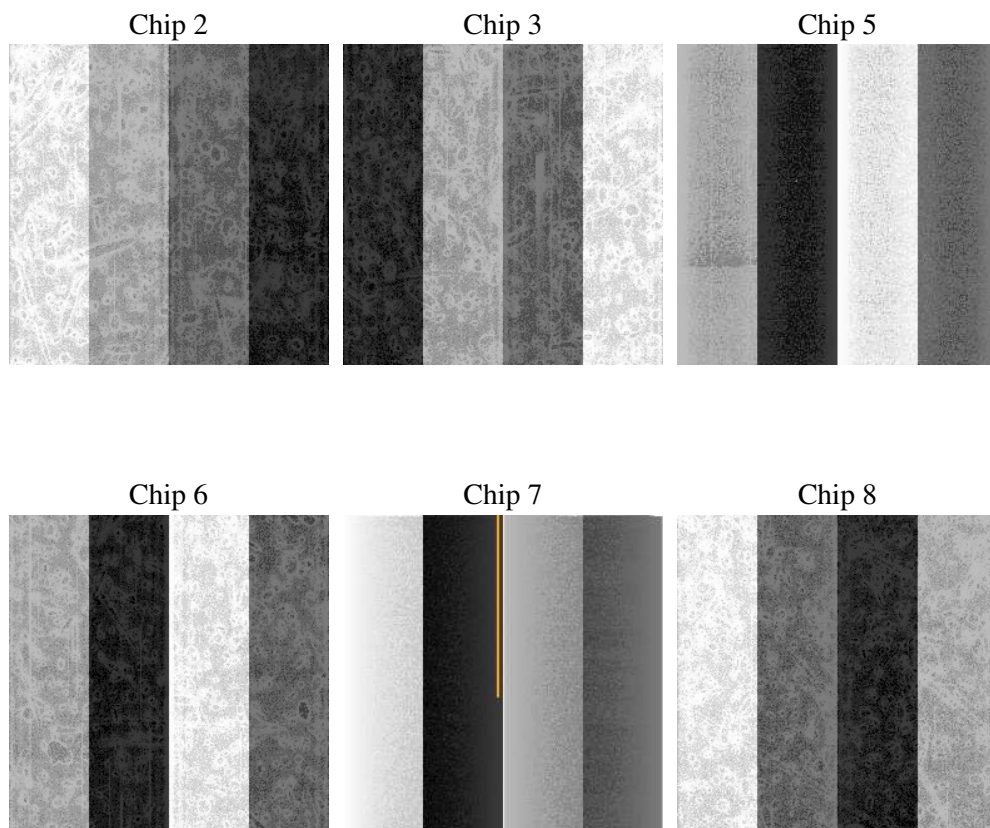
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

|          |                     |
|----------|---------------------|
| obi_num  | 1                   |
| ascdsver | 7.6.9               |
| caldsver | 3.2.3               |
| date     | 2006-09-14T20:06:50 |
| revision | 2                   |

|                |                 |
|----------------|-----------------|
| sched_exp_time | 59714.966000    |
| ontime         | 59679.830130994 |
| ontime2        | 59676.589140803 |
| ontime3        | 59673.348150611 |
| ontime5        | 59679.830130994 |
| ontime6        | 59679.830130994 |
| ontime7        | 59679.830130994 |
| ontime8        | 59679.830111057 |
| l1events       | 1653599         |

### 2.1.4 Events

|                 | ccd 2  | ccd 3  | ccd 5  | ccd 6  | ccd 7  | ccd 8  |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events  | 297354 | 265115 | 272847 | 274503 | 177876 | 365904 |
| rejected events | 266095 | 236663 | 94161  | 240887 | 67665  | 245211 |
| rejected %      | 89%    | 89%    | 34%    | 87%    | 38%    | 67%    |

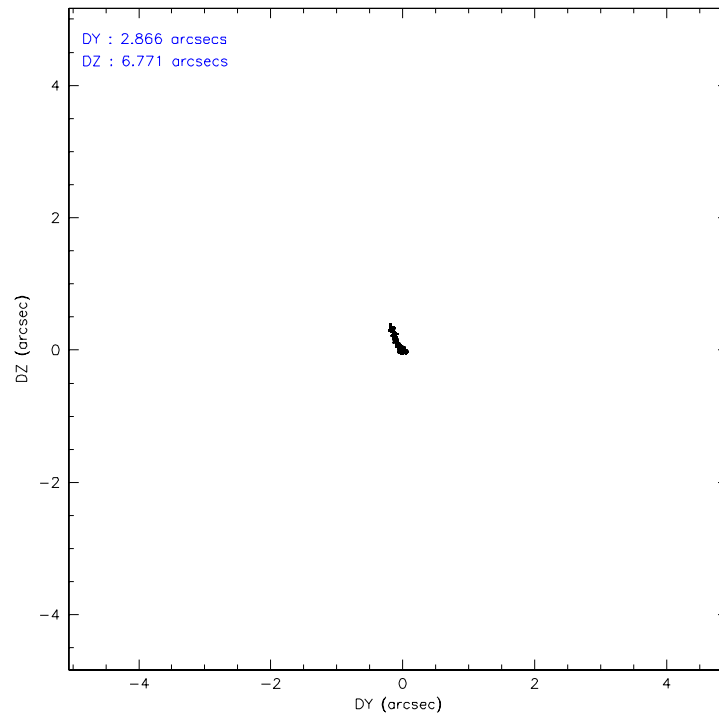
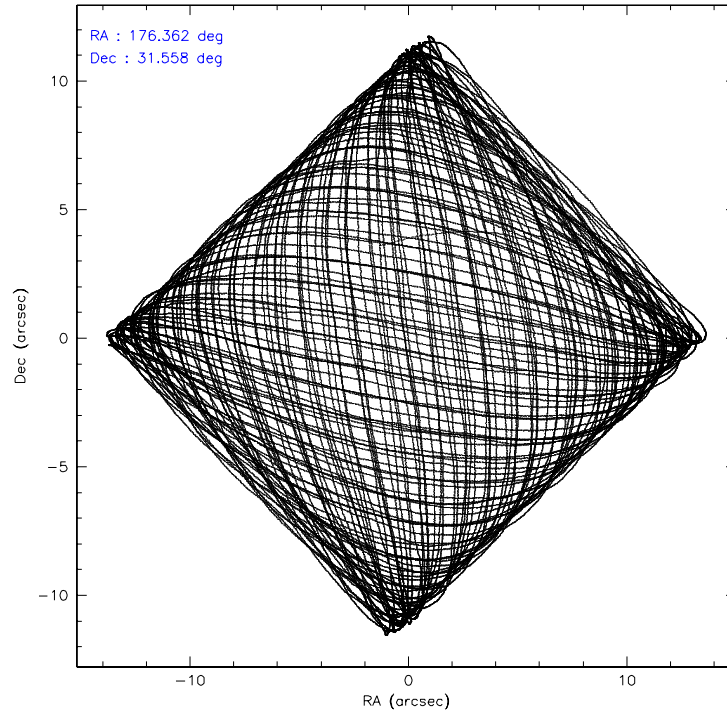
|                | ccd 2  | ccd 3  | ccd 5 | ccd 6  | ccd 7 | ccd 8  |
|----------------|--------|--------|-------|--------|-------|--------|
| grade 0 events | 15217  | 14219  | 41211 | 17163  | 11675 | 40798  |
|                | 5%     | 5%     | 15%   | 6%     | 6%    | 11%    |
| grade 1 events | 143    | 130    | 155   | 146    | 158   | 309    |
|                | 0%     | 0%     | 0%    | 0%     | 0%    | 0%     |
| grade 2 events | 6697   | 5136   | 52783 | 6266   | 29435 | 21625  |
|                | 2%     | 1%     | 19%   | 2%     | 16%   | 5%     |
| grade 3 events | 2585   | 2748   | 6329  | 3021   | 8432  | 16297  |
|                | 0%     | 1%     | 2%    | 1%     | 4%    | 4%     |
| grade 4 events | 2908   | 2578   | 5796  | 2903   | 8168  | 14860  |
|                | 0%     | 0%     | 2%    | 1%     | 4%    | 4%     |
| grade 5 events | 4083   | 4695   | 13173 | 4867   | 12574 | 8519   |
|                | 1%     | 1%     | 4%    | 1%     | 7%    | 2%     |
| grade 6 events | 3852   | 3774   | 72583 | 4268   | 52516 | 27133  |
|                | 1%     | 1%     | 26%   | 1%     | 29%   | 7%     |
| grade 7 events | 261869 | 231835 | 80817 | 235869 | 54918 | 236363 |
|                | 88%    | 87%    | 29%   | 85%    | 30%   | 64%    |

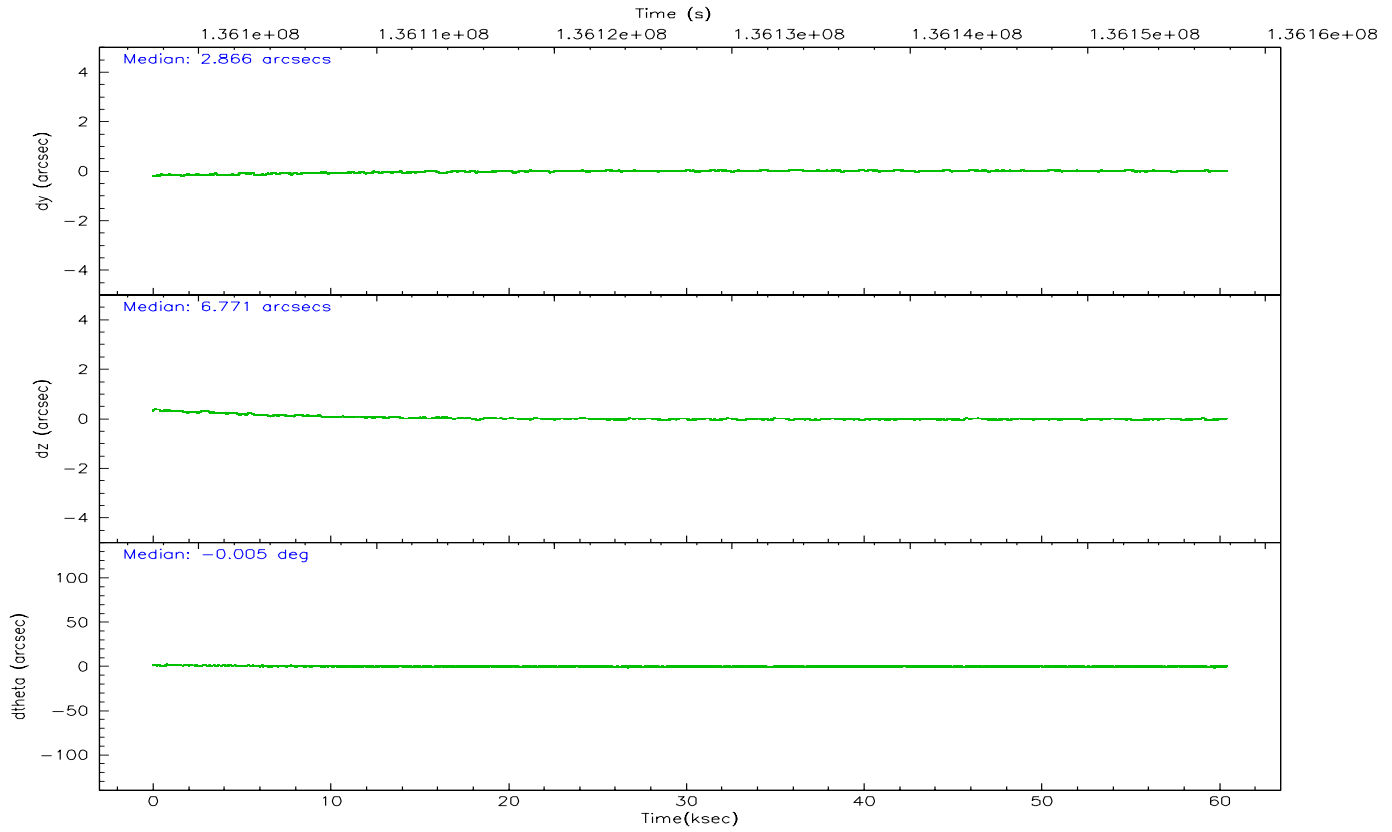
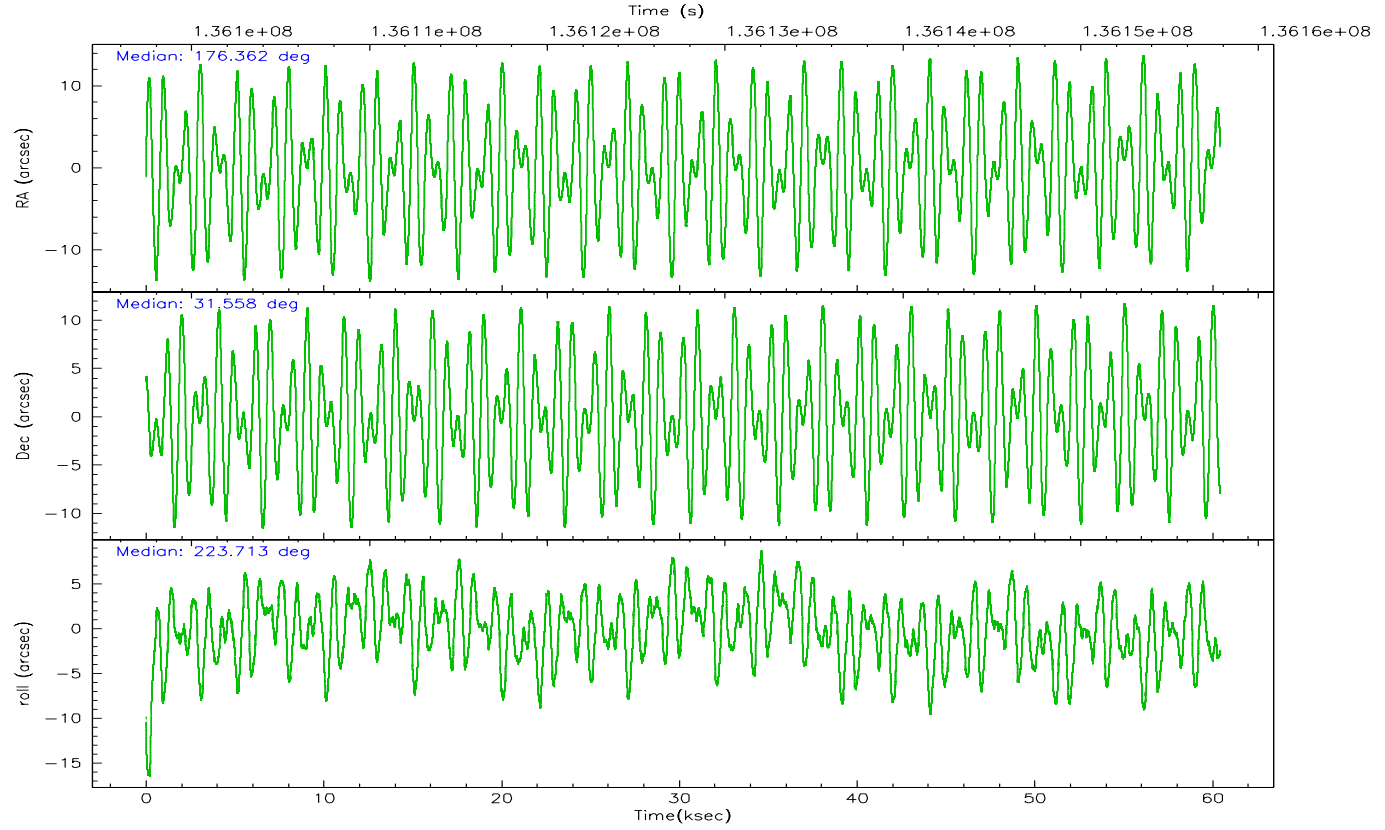


## 2.2 Compared Parameters

| 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               | Number of optional ACIS chips dropped | 0         | 0       |
| Observation mode                  | POINTING            | POINTING             | On-chip summing requested             | N         | N       |
| Pointing RA                       | 176.369927          | 176.361353482197     | Subarray requested                    | NONE      | NONE    |
| Pointing Dec                      | 31.584494           | 31.55825010930687    | Alternating exposures requested       | N         | N       |
| Pointing Roll                     | 223.555020          | 223.7161335735582    | Primary exposure time                 | 0.000000  | 3.2     |
| SIM focus pos (mm)                | -0.684267           | -0.6828225247311905  |                                       |           |         |
| SIM defocus (mm)                  | 0                   | 0.001444936568705701 |                                       |           |         |
| SIM translation stage pos (mm)    | -190.132523         | -190.1400660498719   |                                       |           |         |
| SIM translation stage offset (mm) | 0                   | 0.00754346686406393  |                                       |           |         |
| Observation start time            | 136098128.184000    | 136096908.58571      |                                       |           |         |
| Observation start date            | 2002-04-25T05:01:04 | 2002-04-25T04:41:48  |                                       |           |         |
| Observation end time              | 136157843.184000    | 136158157.4632       |                                       |           |         |
| Observation end date              | 2002-04-25T21:36:19 | 2002-04-25T21:42:37  |                                       |           |         |
| Read mode                         | TIMED               | TIMED                |                                       |           |         |

## 2.3 Aspect



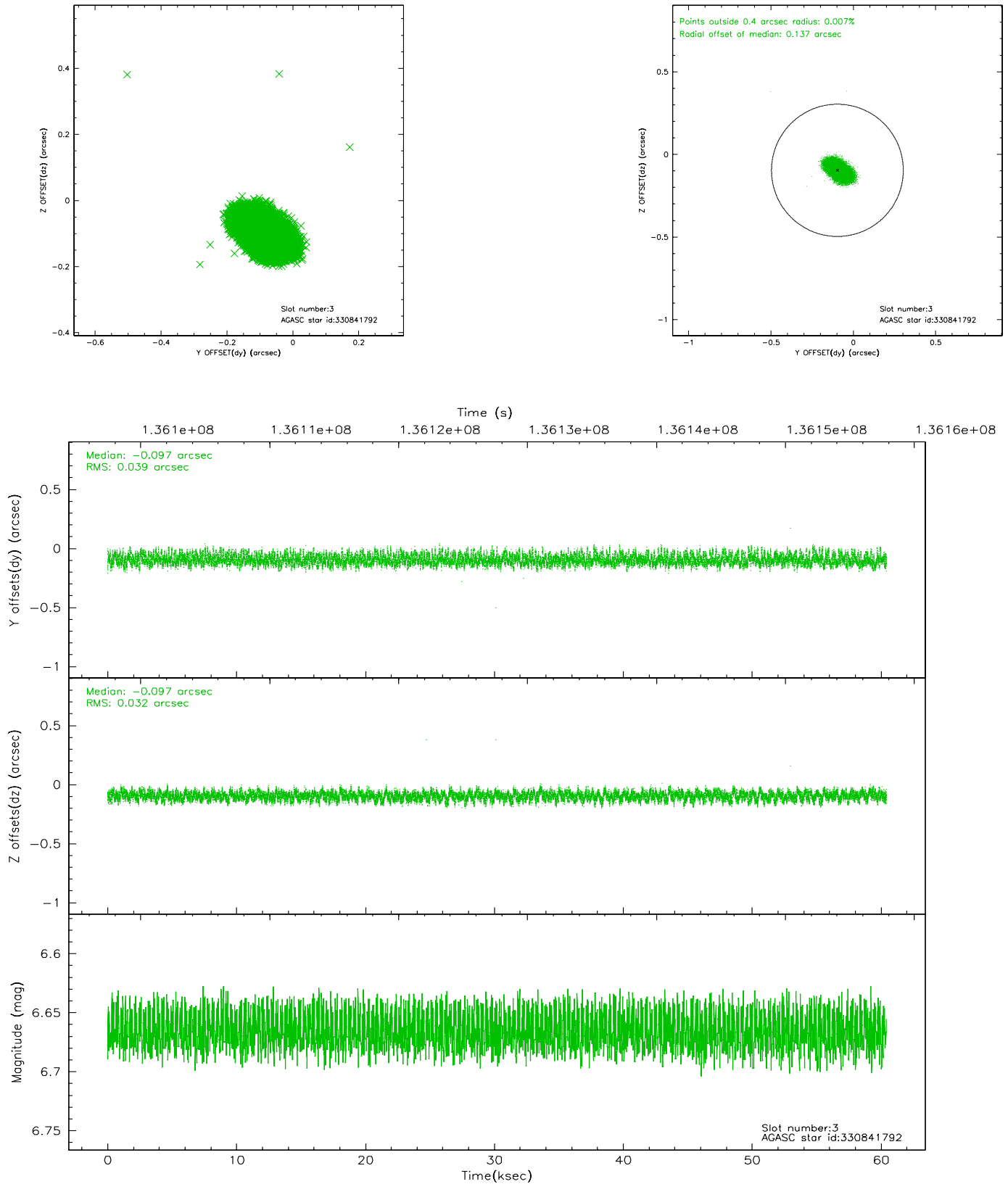


### Slot Statistics

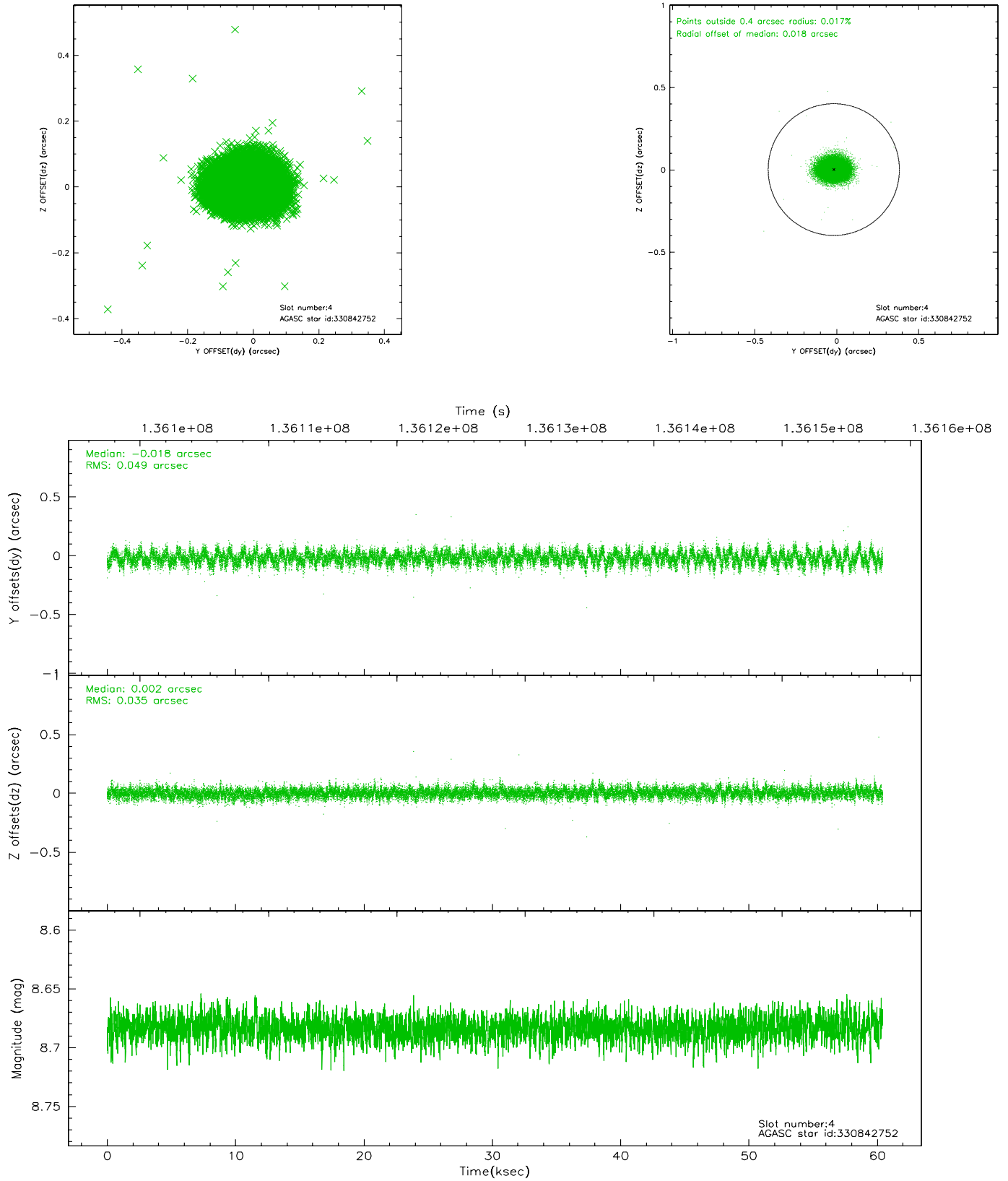
| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra         | dec       | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0    | FID    | ACIS-S-2  | 7.11 | 14737 | -0.011 | 0.029  | 0.008 | 0.013 | 0.000000   | 0.000000  | -755.48  | -1727.94 |
| 1    | FID    | ACIS-S-4  | 7.20 | 14734 | -0.068 | -0.002 | 0.007 | 0.014 | 0.000000   | 0.000000  | 2157.74  | 180.58   |
| 2    | FID    | ACIS-S-5  | 7.24 | 14735 | 0.049  | -0.018 | 0.007 | 0.012 | 0.000000   | 0.000000  | -1808.33 | 174.15   |
| 3    | GUIDE  | 330841792 | 6.67 | 29474 | -0.097 | -0.097 | 0.054 | 0.088 | 175.880028 | 31.762042 | 645.02   | -1499.11 |
| 4    | GUIDE  | 330842752 | 8.68 | 29471 | -0.018 | 0.002  | 0.063 | 0.103 | 176.170682 | 30.959292 | 1997.83  | 1207.41  |
| 5    | GUIDE  | 330843984 | 8.89 | 29460 | 0.032  | -0.094 | 0.068 | 0.112 | 175.953687 | 31.758017 | 492.44   | -1332.62 |
| 6    | GUIDE  | 330843144 | 9.56 | 29414 | 0.148  | 0.156  | 0.107 | 0.170 | 176.247786 | 30.777223 | 2277.26  | 1845.76  |
| 7    | GUIDE  | 330836840 | 9.63 | 29451 | -0.071 | 0.033  | 0.119 | 0.193 | 177.303835 | 31.456436 | -1768.43 | 2301.27  |

## 2.4 Star Slots

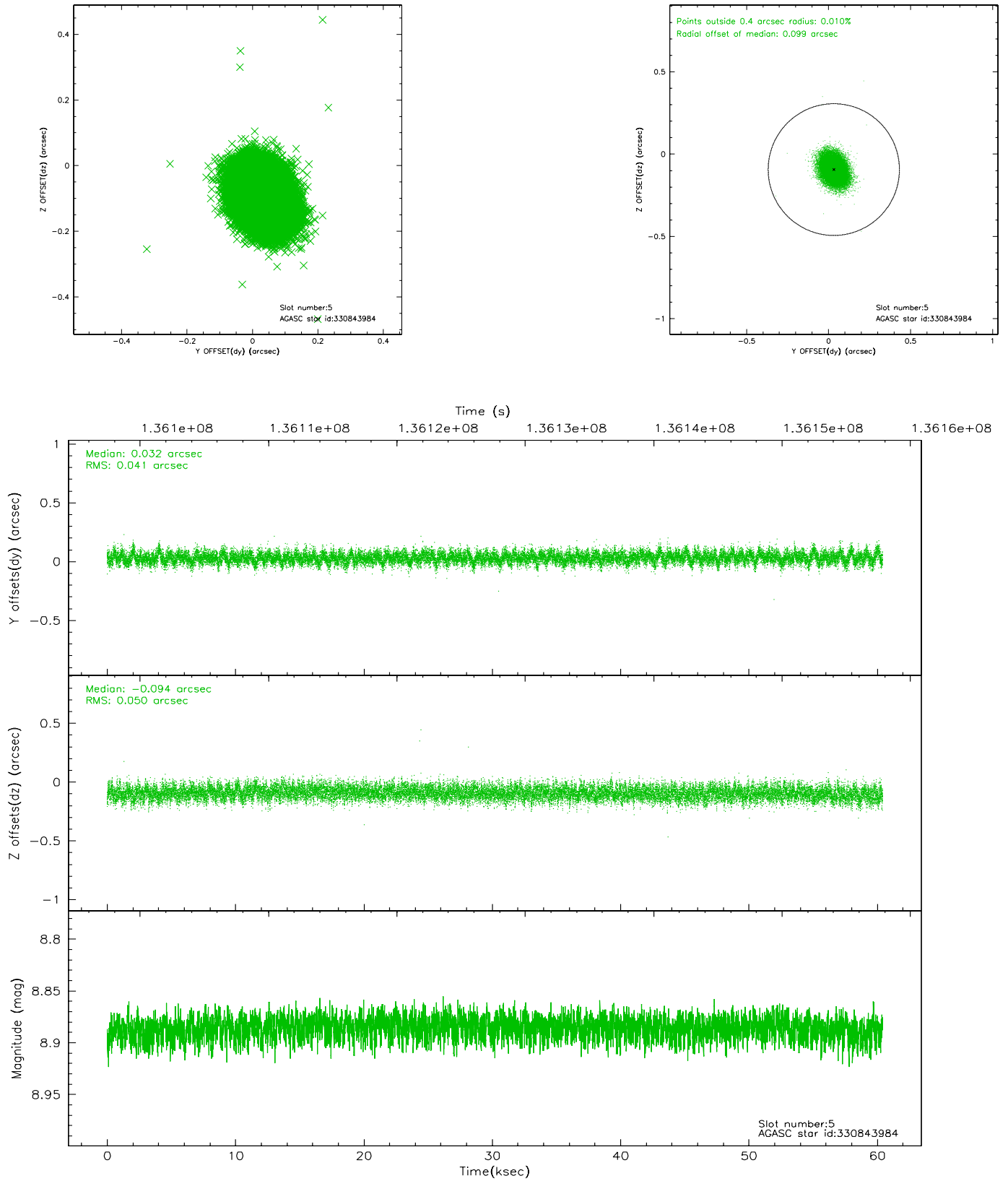
### 2.4.1 Slot 3



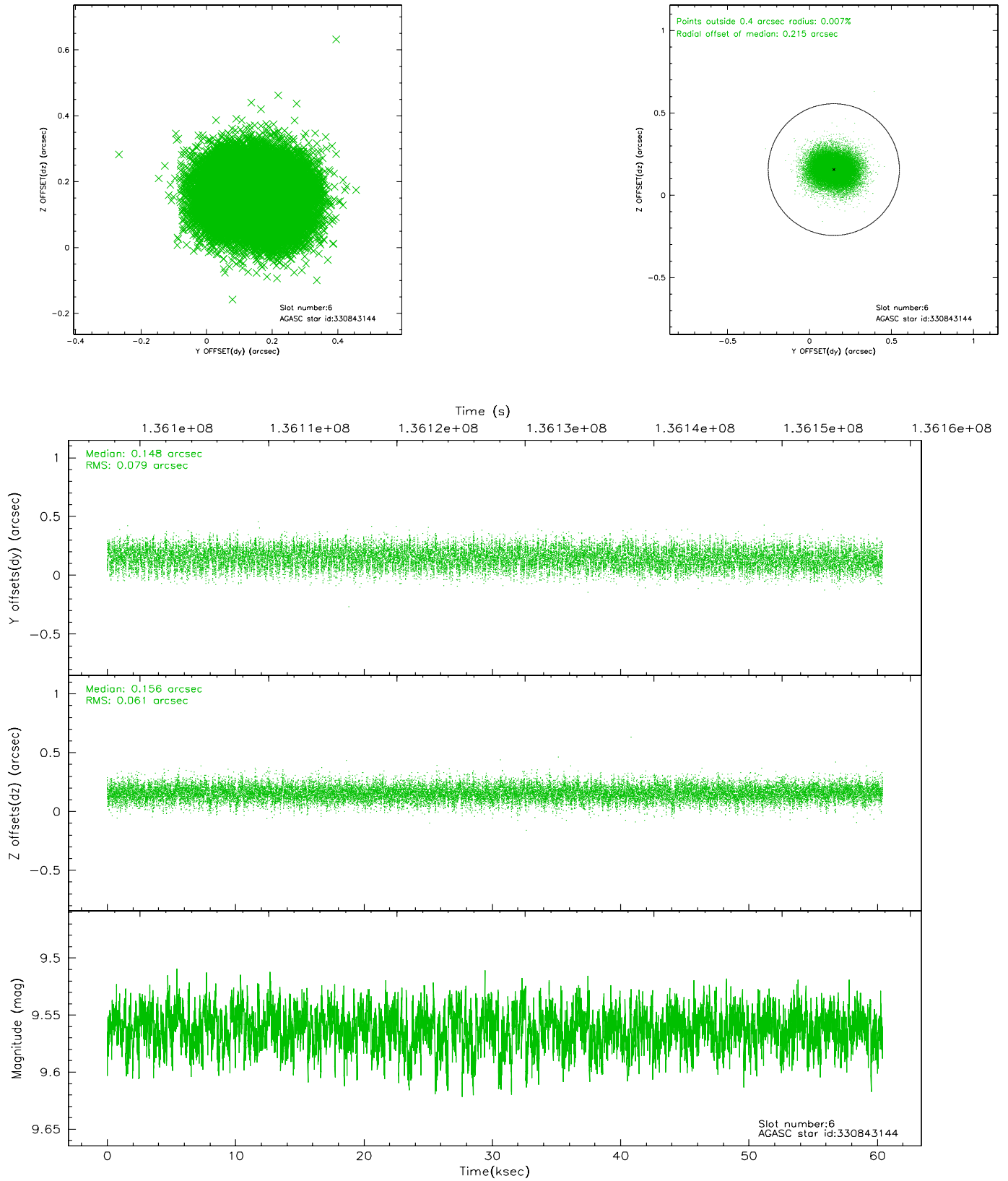
## 2.4.2 Slot 4



### 2.4.3 Slot 5

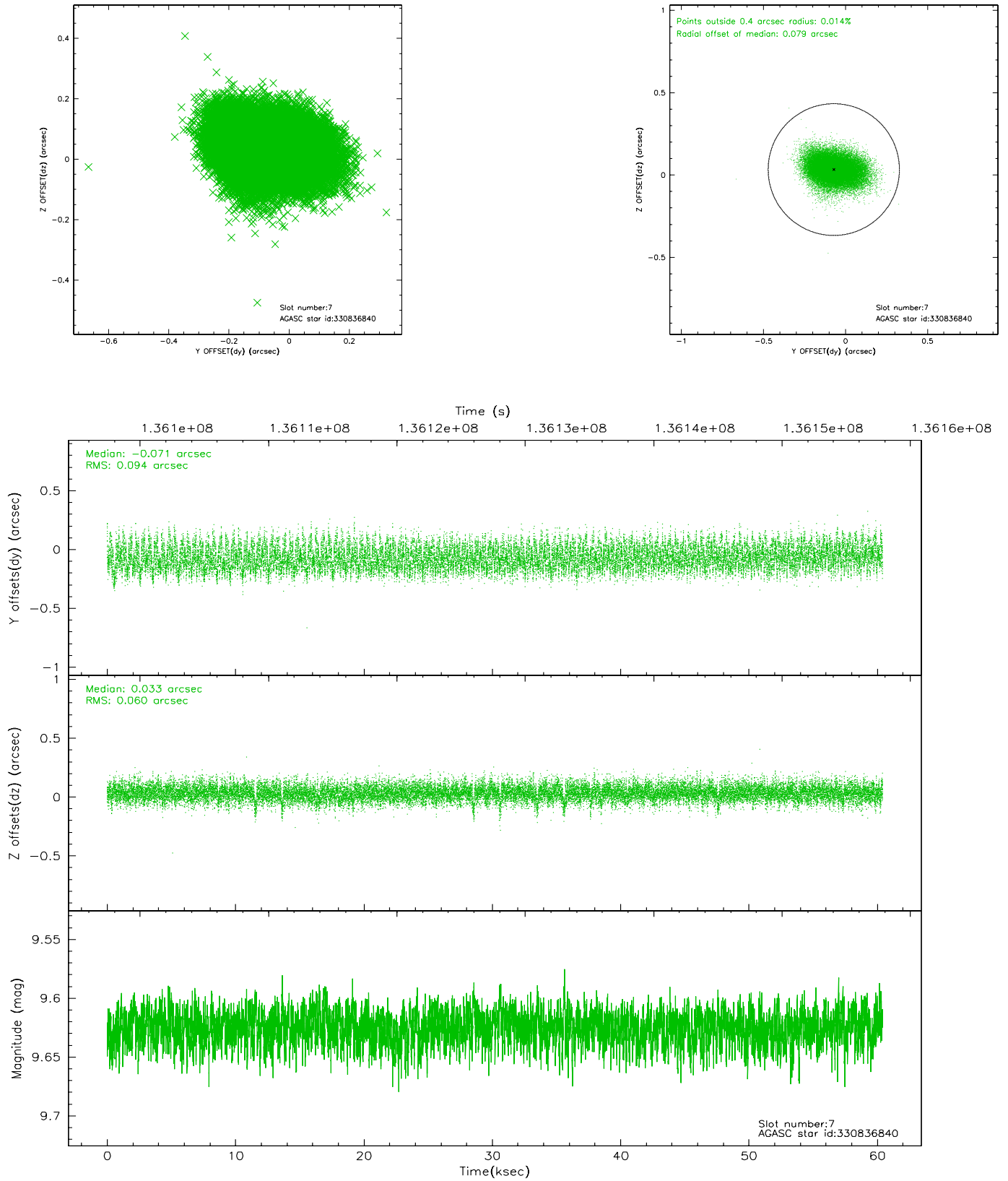


## 2.4.4 Slot 6



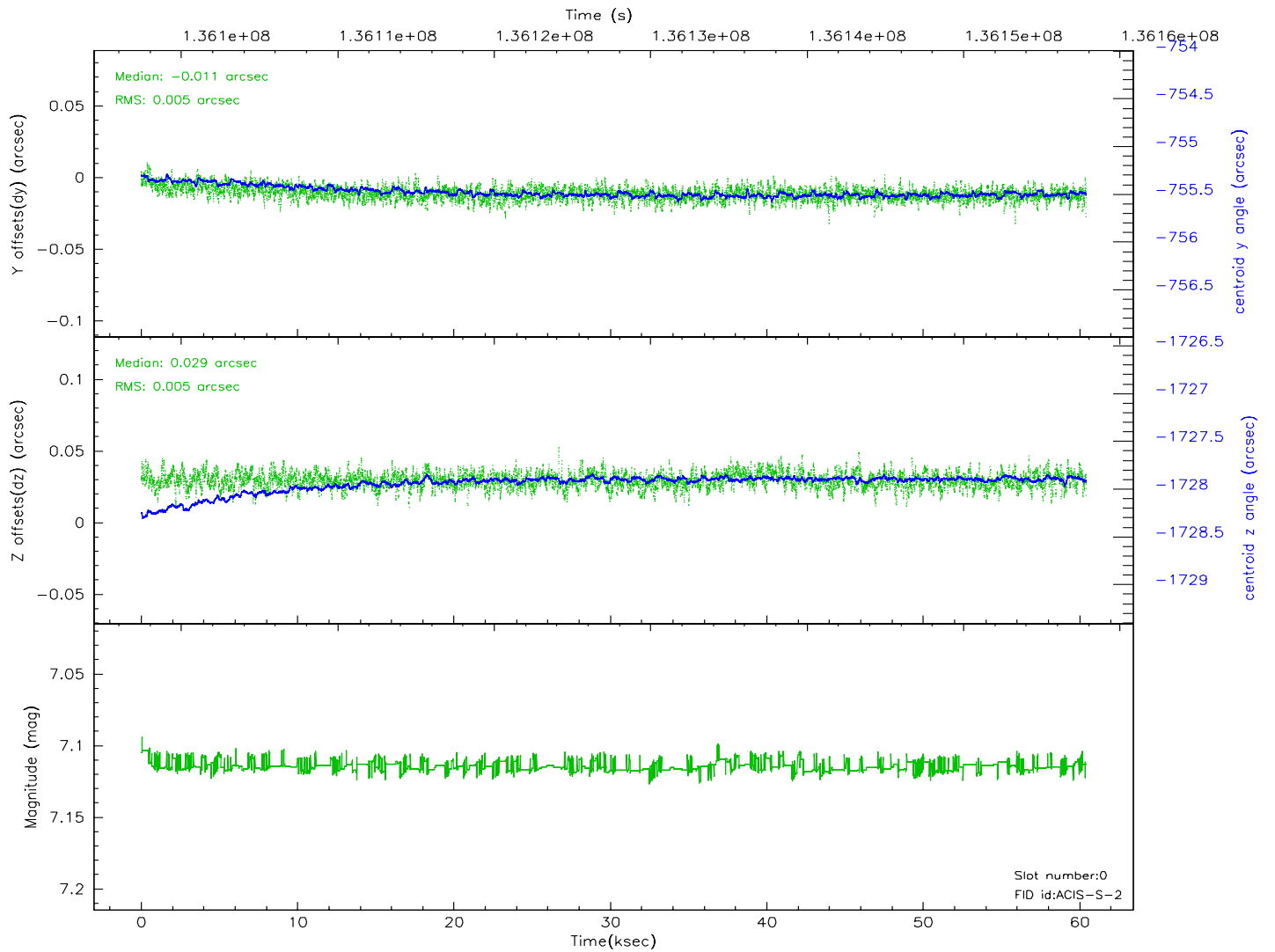
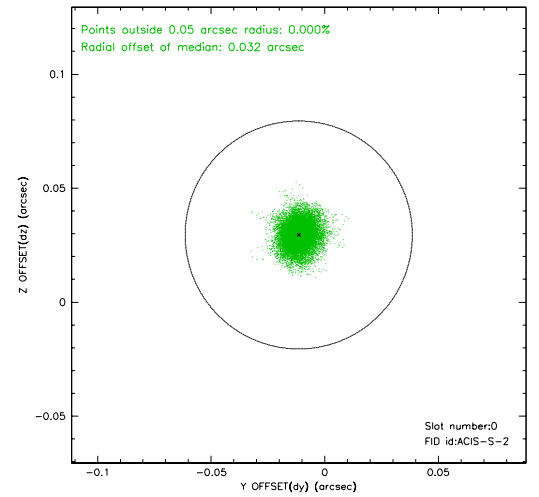
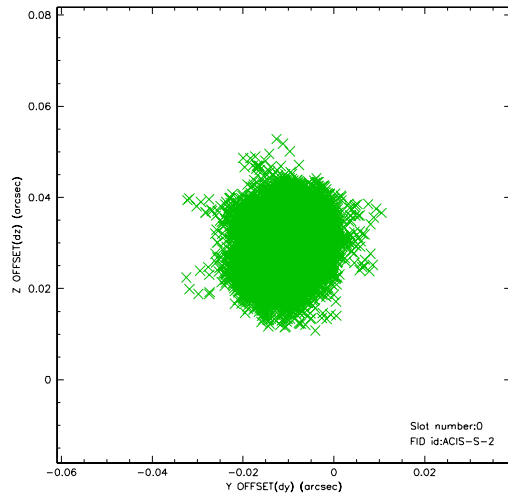


## 2.4.5 Slot 7

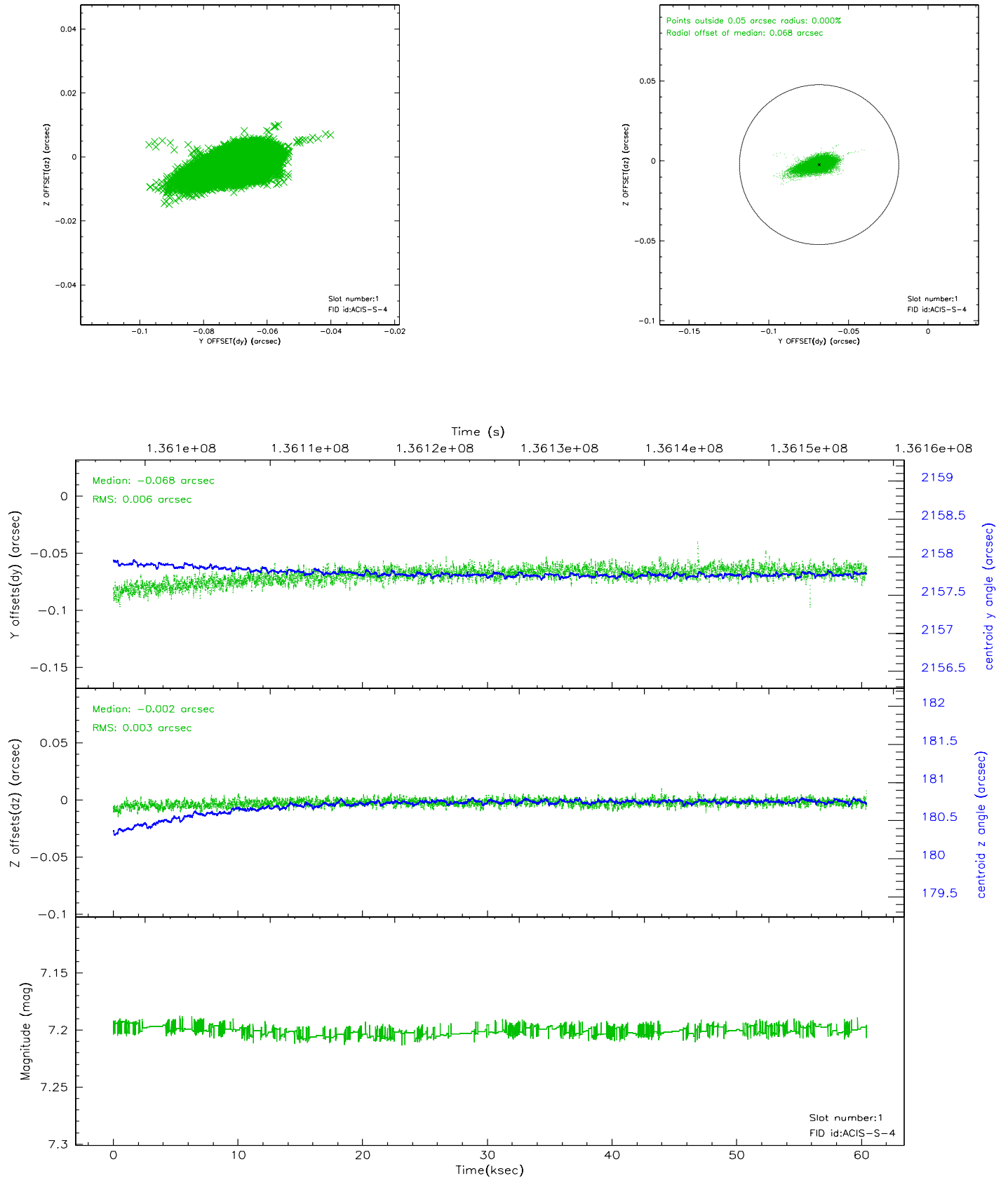


## 2.5 FID Slots

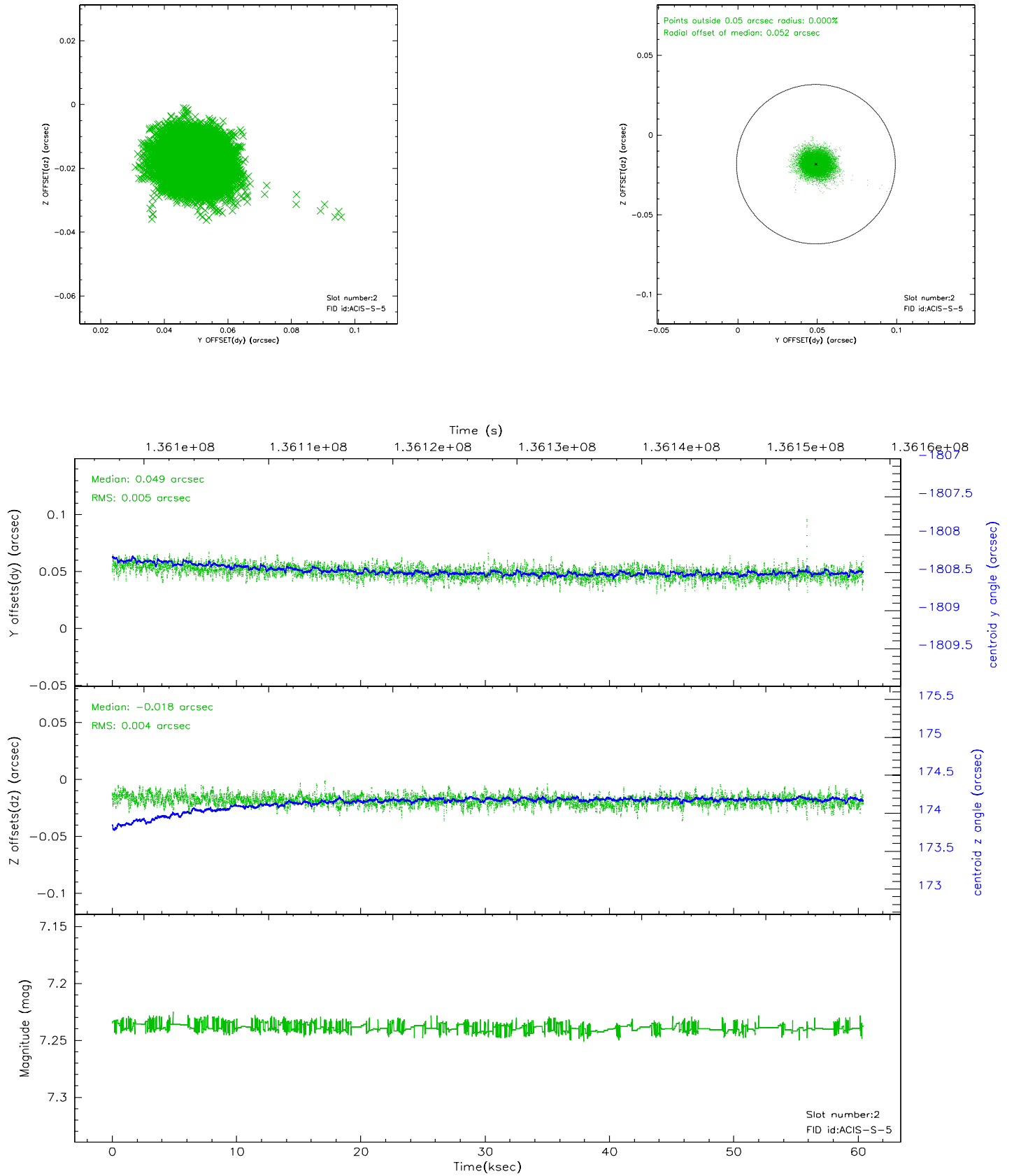
### 2.5.1 Slot 0



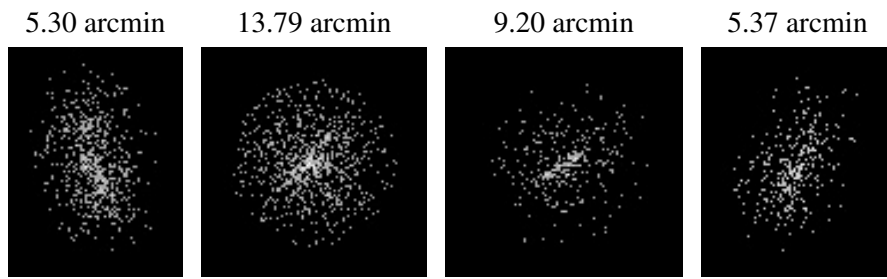
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

|                            |             |
|----------------------------|-------------|
| V&V Scientist              | Doug Morgan |
| V&V Date (YYYY-MM-DD)      | 2006.09.15  |
| V&V Edition                | 1           |
| V&V Disposition and Status | OK          |
| V&V Charge Time            | 59.676      |

### A.2 Comments