

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 5967 - L2 Version 002  
Chandra X-Ray Center

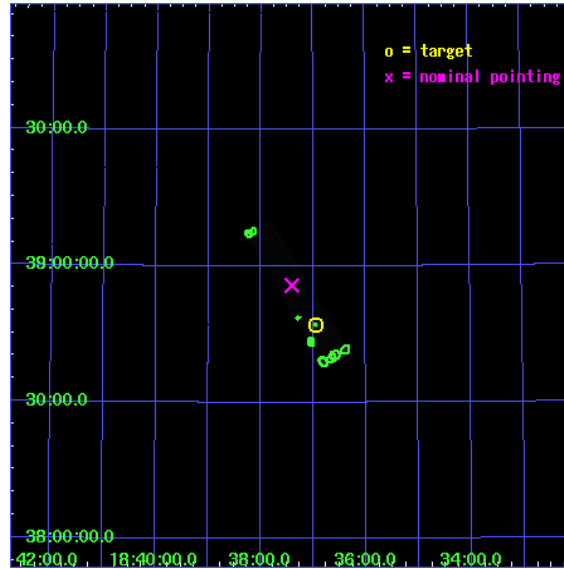
L2 Processing Date: Feb 23 2006

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# 1 Front

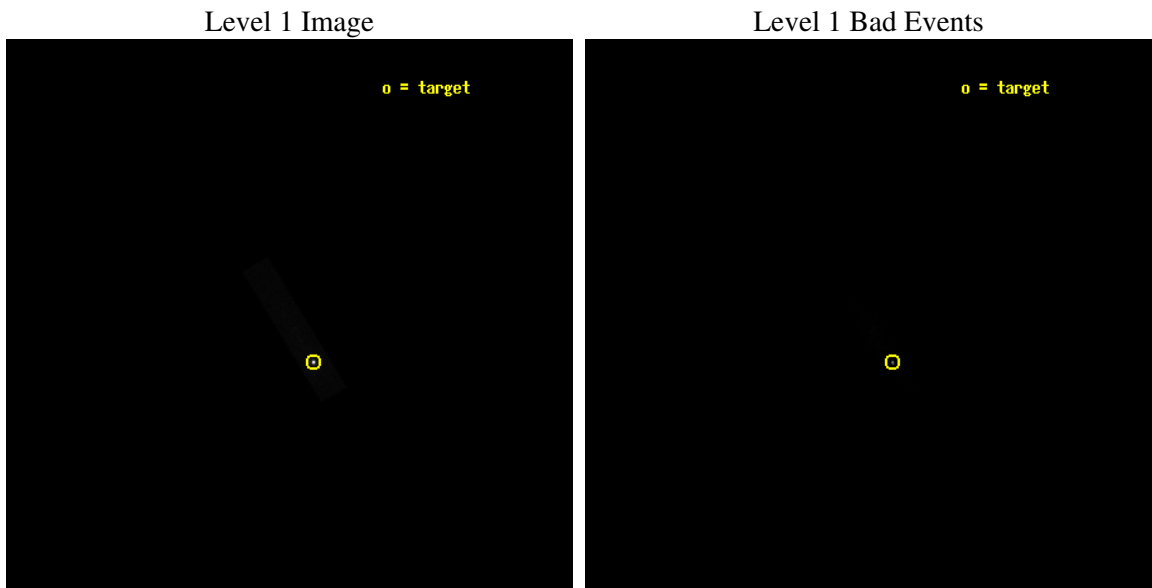
|          |  |
|----------|--|
| seq_num  | 290459   |
| obs_id   | 5967   |
| title    | AO6 Measurements of the optical/UV Transmission of the HRC and ACIS Filters. |
| observer | Dr. CXC Calibration  |
| object   | Vega   |
| ra_targ  | 279.235  |
| dec_targ | 38.783778  |
| ra_nom   | 279.35078367906  |
| dec_nom  | 38.929418396348  |
| roll_nom | 58.391599213685  |
| revision | 2  |
| ontime   | 2159.9313477576  |
| livetime | 1888.3048339417  |
| l2events | 375619   |



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

|          |                     |
|----------|---------------------|
| obi_num  | 0                   |
| ascdsver | 7.6.7               |
| caldbver | 3.2.1               |
| date     | 2006-02-24T00:30:01 |
| revision | 2                   |

|                |                 |
|----------------|-----------------|
| sched_exp_time | 2000.000000     |
| ontime         | 2189.6563491225 |
| l1events       | 451490          |

### 2.1.3 Events

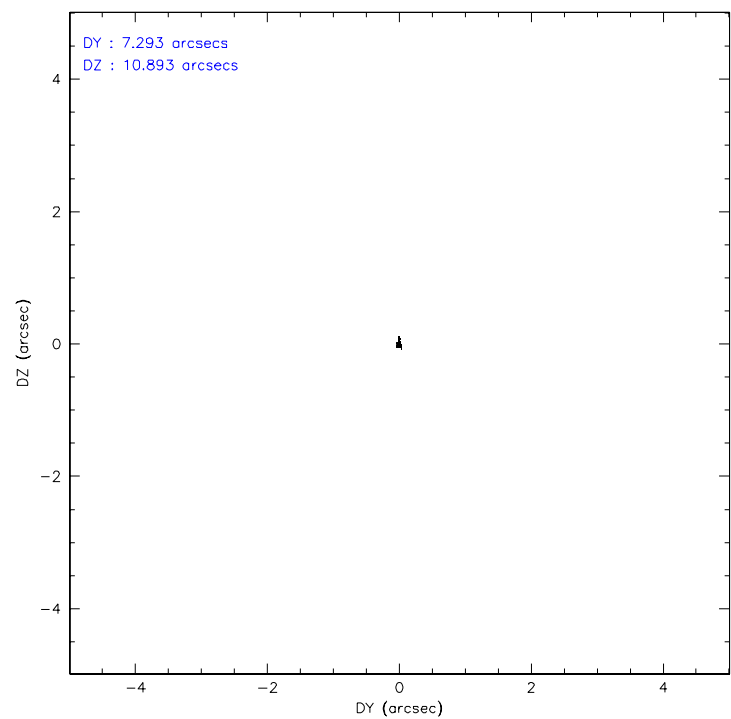
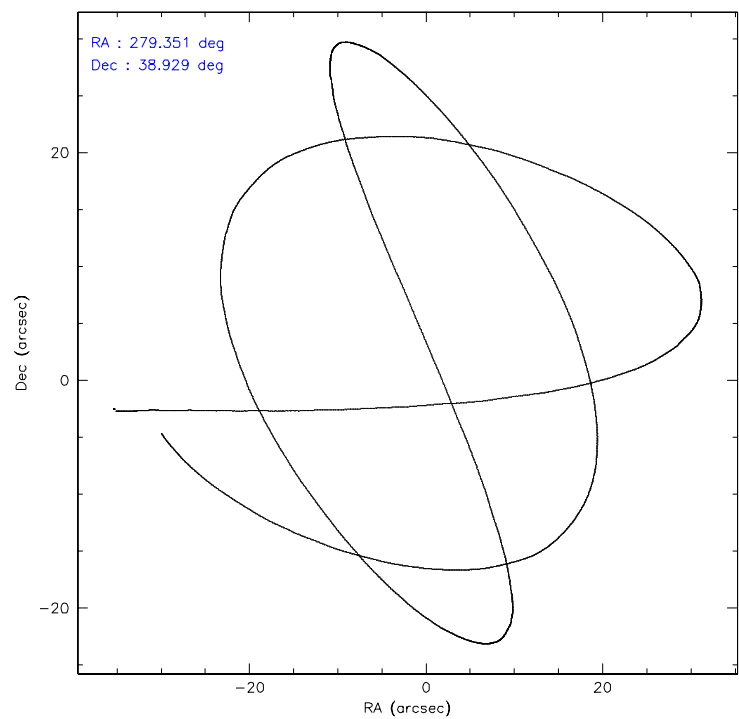
Level 1 Events

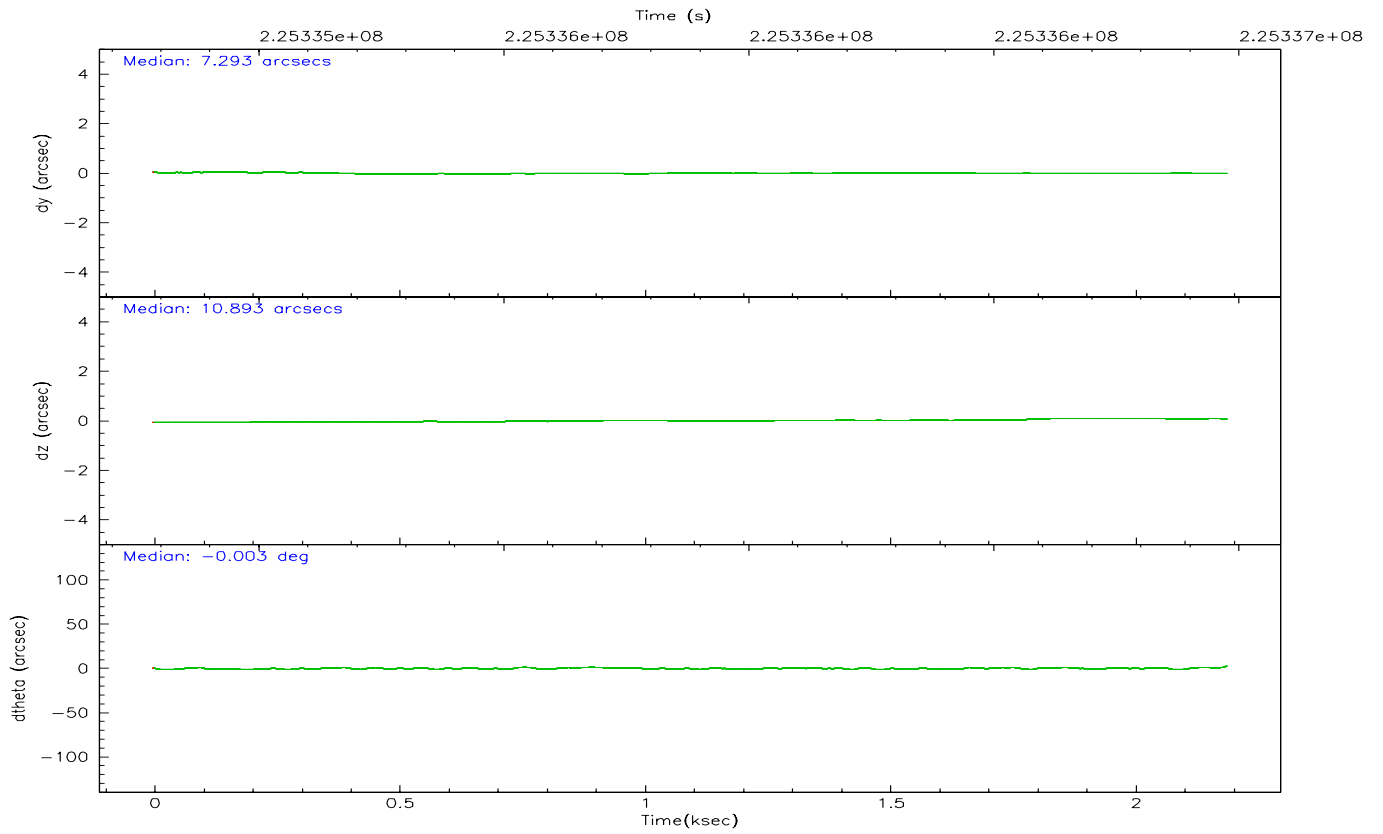
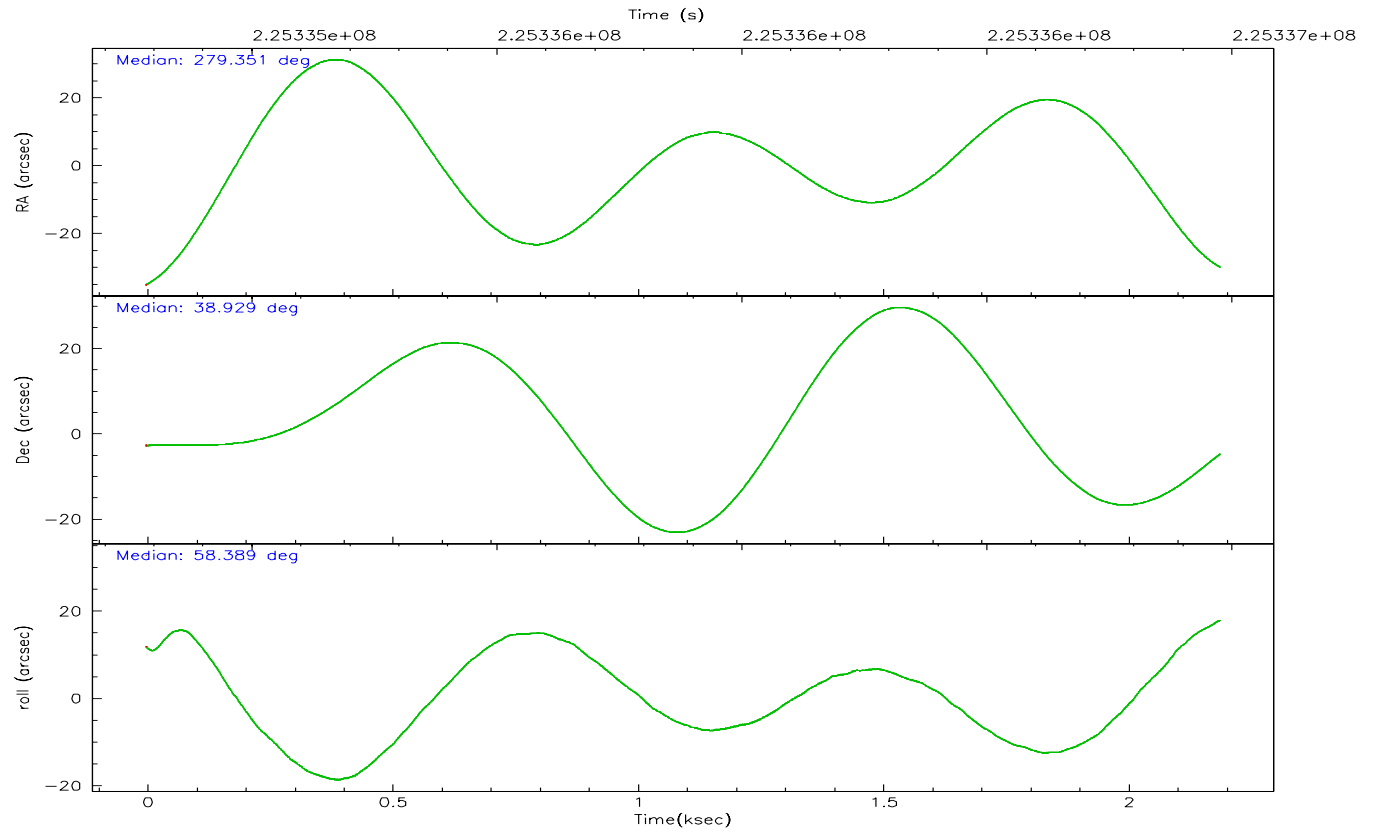
|                    | <b>segment<br/>1</b> | <b>segment<br/>2</b> | <b>segment<br/>3</b> |
|--------------------|----------------------|----------------------|----------------------|
| level 1<br>events  | 4494                 | 445986               | 1010                 |
| rejected<br>events | 4470                 | 64202                | 1006                 |
| rejected<br>%      | 99%                  | 14%                  | 99%                  |

## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual               | Parameter                    | Planned   | Actual  |
|-----------------------------------|---------------------|----------------------|------------------------------|-----------|---------|
| Instrument                        | HRC                 | HRC                  | Obspar format version number | 6         | 6       |
| Detector                          | HRC-S               | HRC-S                | Obspar file type             | PREDICTED | ACTUAL  |
| Grating                           | NONE                | NONE                 | Obspar update status         | NONE      | UPDATED |
| Data mode                         | OBSERVING           | OBSERVING            |                              |           |         |
| Observation mode                  | POINTING            | POINTING             |                              |           |         |
| Pointing RA                       | 279.351354          | 279.3507836790558    |                              |           |         |
| Pointing Dec                      | 38.900998           | 38.92941839634831    |                              |           |         |
| Pointing Roll                     | 58.323978           | 58.391599213685      |                              |           |         |
| Window start time                 | 223603264.184000    | 223603264.184000     |                              |           |         |
| Window stop time                  | 228614464.184000    | 228614464.184000     |                              |           |         |
| SIM focus pos (mm)                | -1.429586           | -1.428180813131781   |                              |           |         |
| SIM defocus (mm)                  | 0.1037507710433287  | 0.1051558262725154   |                              |           |         |
| SIM translation stage pos (mm)    | 250.455976          | 250.466033080201     |                              |           |         |
| SIM translation stage offset (mm) | 0                   | -0.01005468664627074 |                              |           |         |
| Observation start time            | 225334969.184000    | 225334593.22367      |                              |           |         |
| Observation start date            | 2005-02-21T01:01:45 | 2005-02-21T00:56:33  |                              |           |         |
| Observation end time              | 225336969.184000    | 225337103.44878      |                              |           |         |
| Observation end date              | 2005-02-21T01:35:05 | 2005-02-21T01:38:23  |                              |           |         |

### 2.3 Aspect





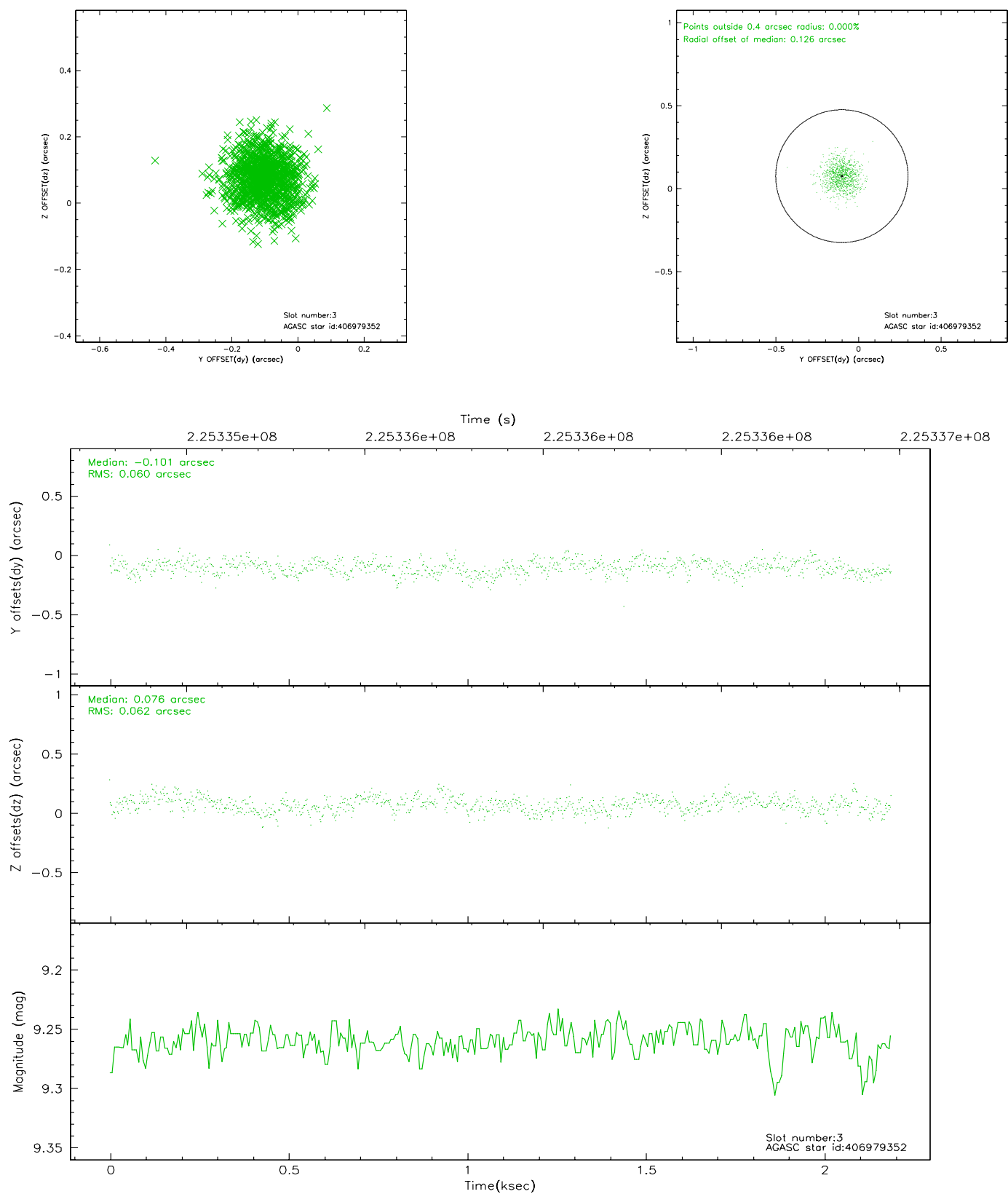
### Slot Statistics

| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra         | dec       | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0    | FID    | HRC-S-1   | 7.02 | 535   | 0.127  | -0.164 | 0.007 | 0.012 | 0.000000   | 0.000000  | -1161.45 | -459.60  |
| 1    | FID    | HRC-S-2   | 7.01 | 535   | 0.170  | -0.116 | 0.004 | 0.007 | 0.000000   | 0.000000  | 1236.10  | -453.08  |
| 2    | FID    | HRC-S-3   | 7.02 | 535   | 0.093  | -0.022 | 0.007 | 0.012 | 0.000000   | 0.000000  | -1161.89 | 569.22   |
| 3    | GUIDE  | 406979352 | 9.26 | 1067  | -0.101 | 0.076  | 0.092 | 0.148 | 279.968297 | 39.230258 | 1916.83  | -837.87  |
| 4    | GUIDE  | 406983600 | 8.92 | 1069  | 0.014  | 0.066  | 0.073 | 0.120 | 279.940957 | 39.020708 | 1239.35  | -1174.47 |
| 5    | GUIDE  | 406989616 | 8.24 | 1069  | 0.064  | 0.102  | 0.076 | 0.118 | 279.202881 | 38.520843 | -1382.40 | -362.52  |
| 6    | GUIDE  | 407521232 | 8.66 | 1069  | -0.015 | -0.126 | 0.071 | 0.117 | 279.628883 | 39.431715 | 2031.22  | 347.93   |
| 7    | GUIDE  | 406990192 | 8.99 | 1068  | 0.038  | -0.116 | 0.092 | 0.140 | 278.510952 | 38.533654 | -2356.76 | 1326.64  |

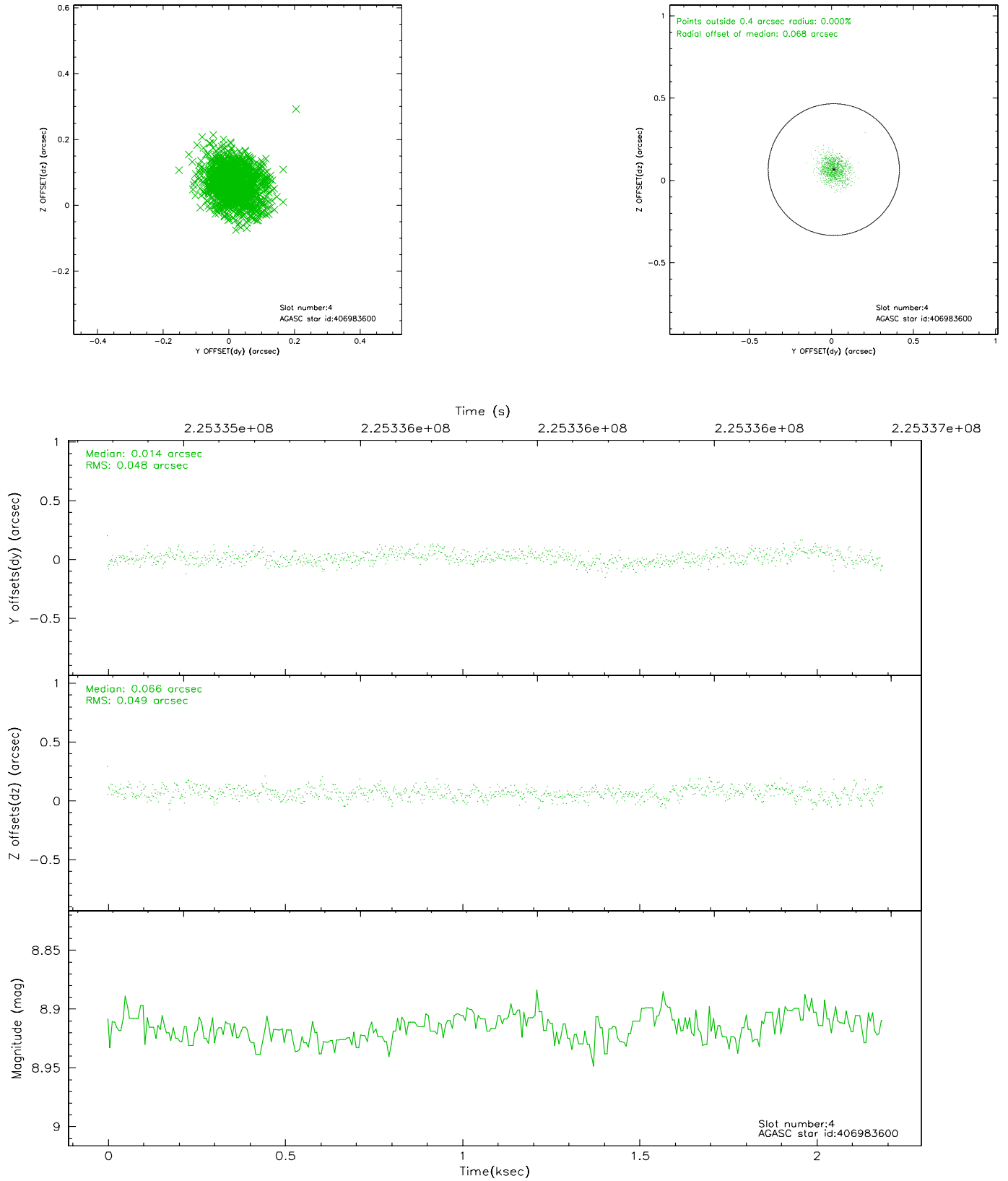


## 2.4 Star Slots

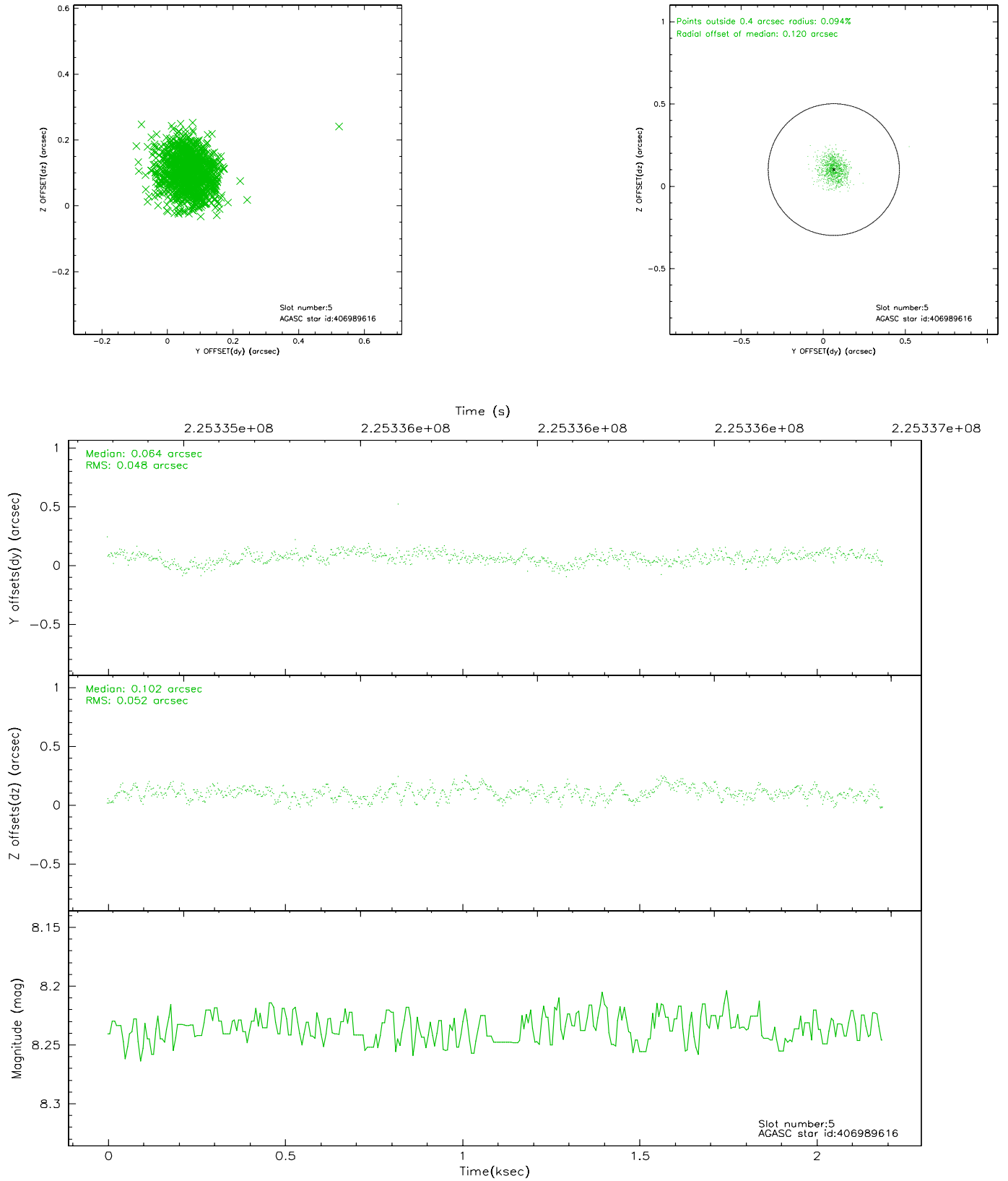
### 2.4.1 Slot 3



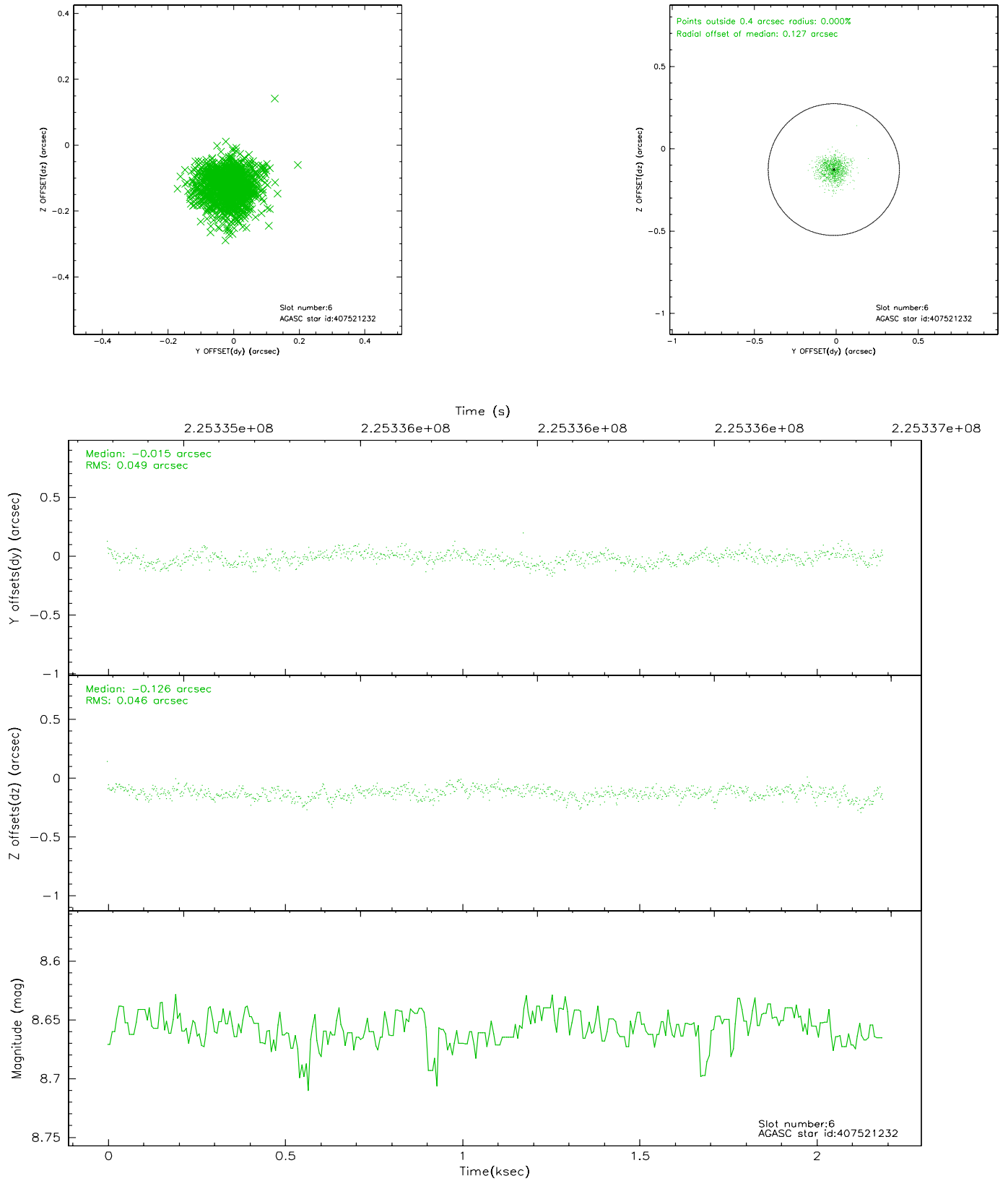
## 2.4.2 Slot 4



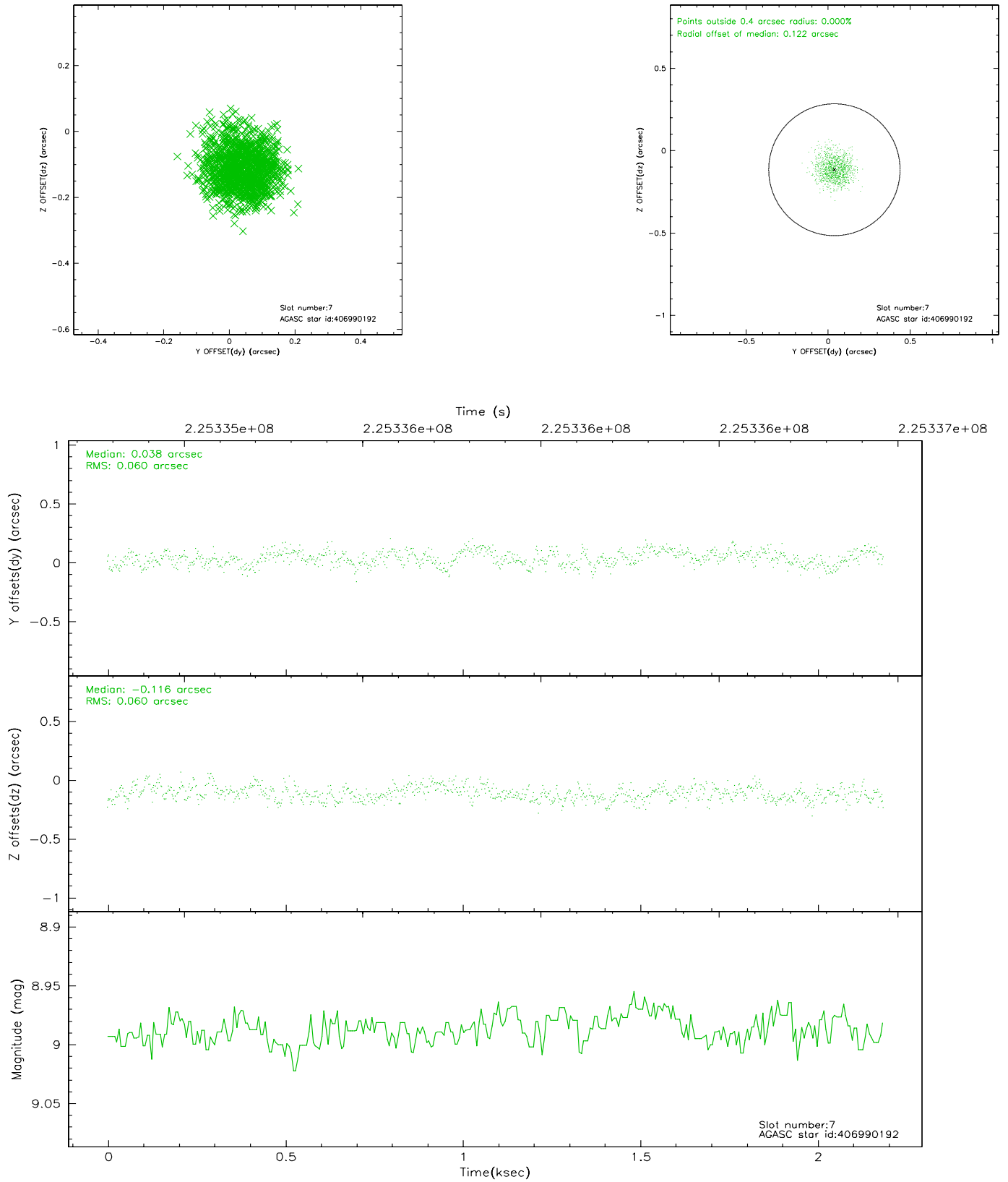
### 2.4.3 Slot 5



## 2.4.4 Slot 6

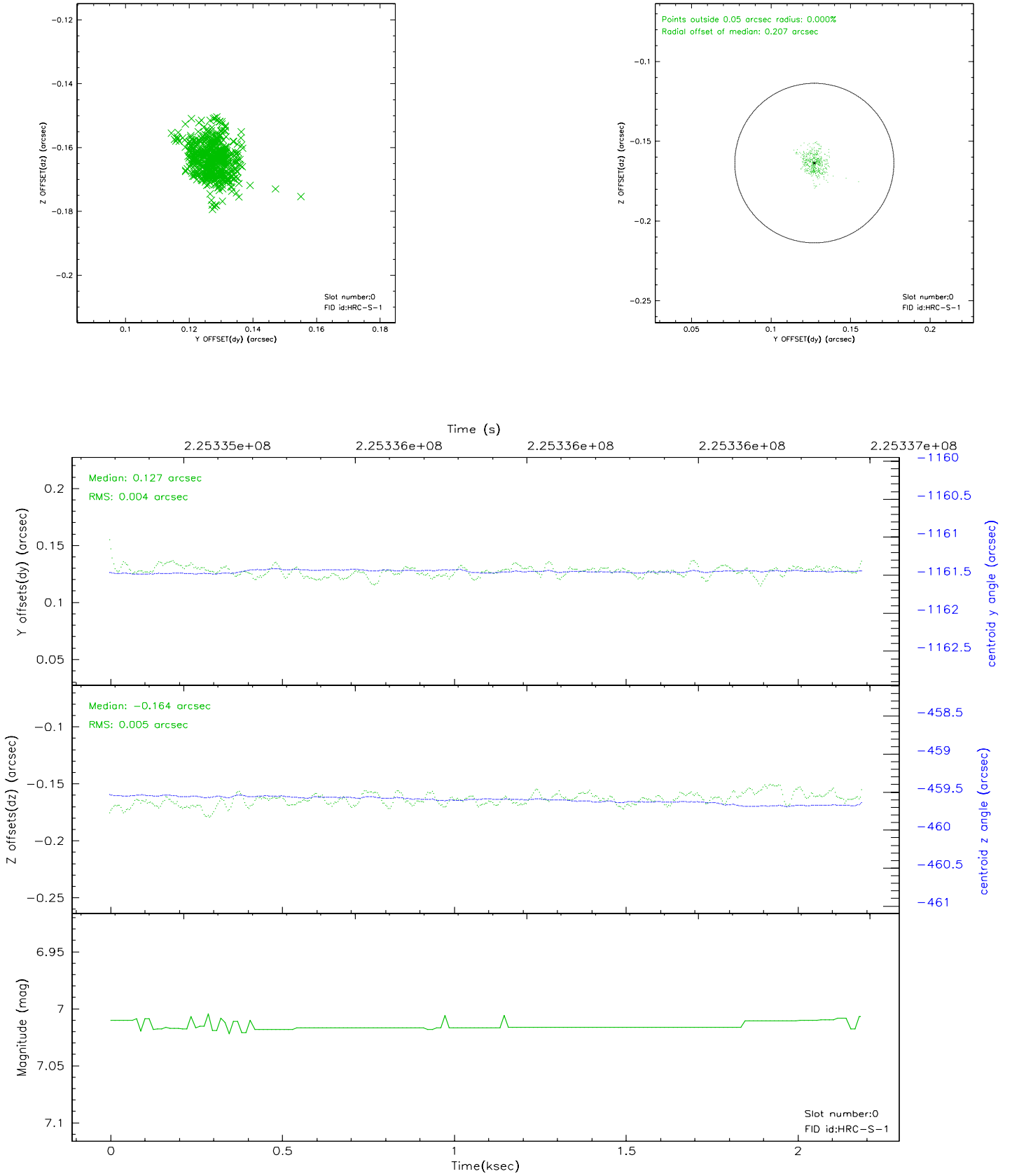


## 2.4.5 Slot 7

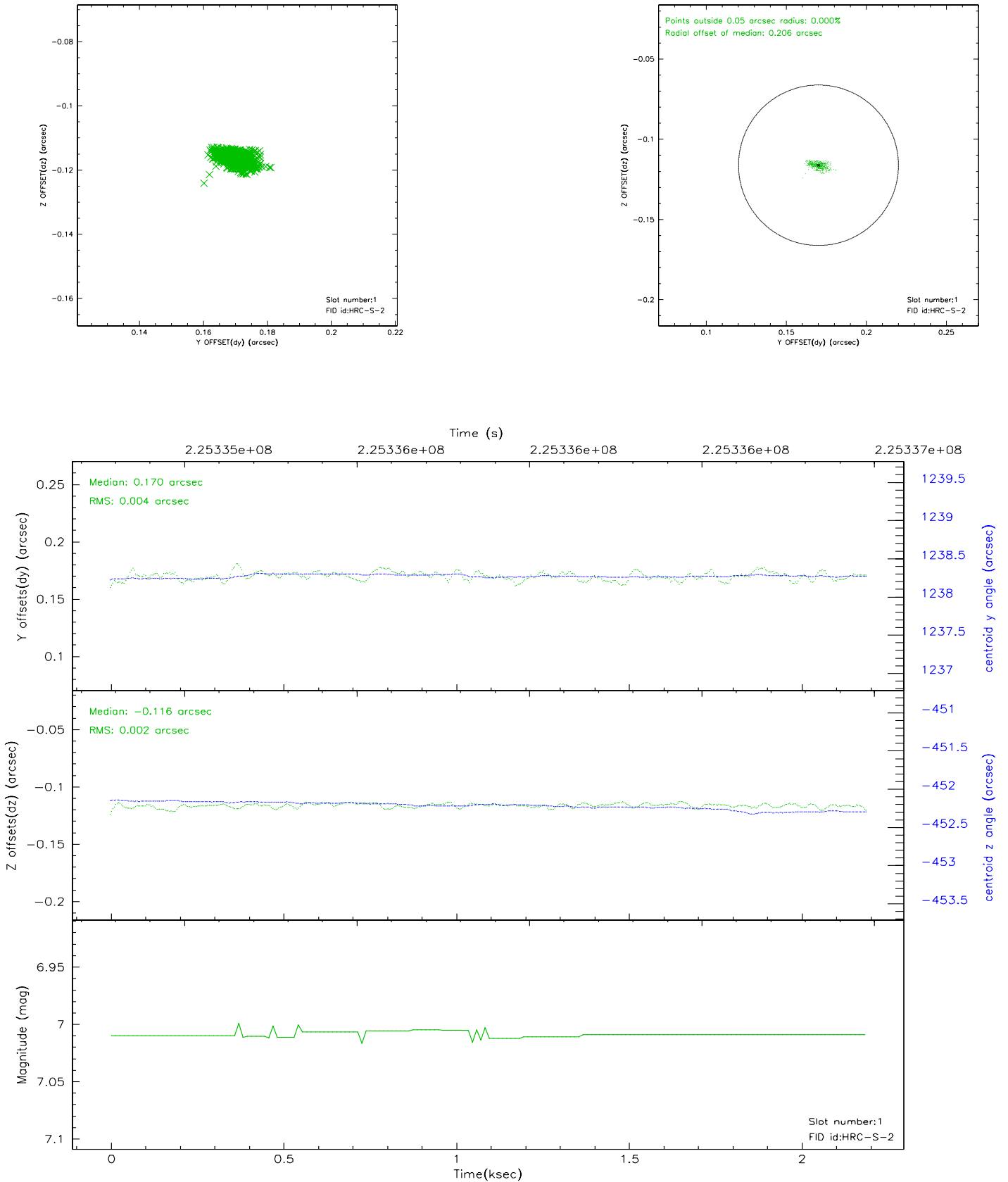


## 2.5 FID Slots

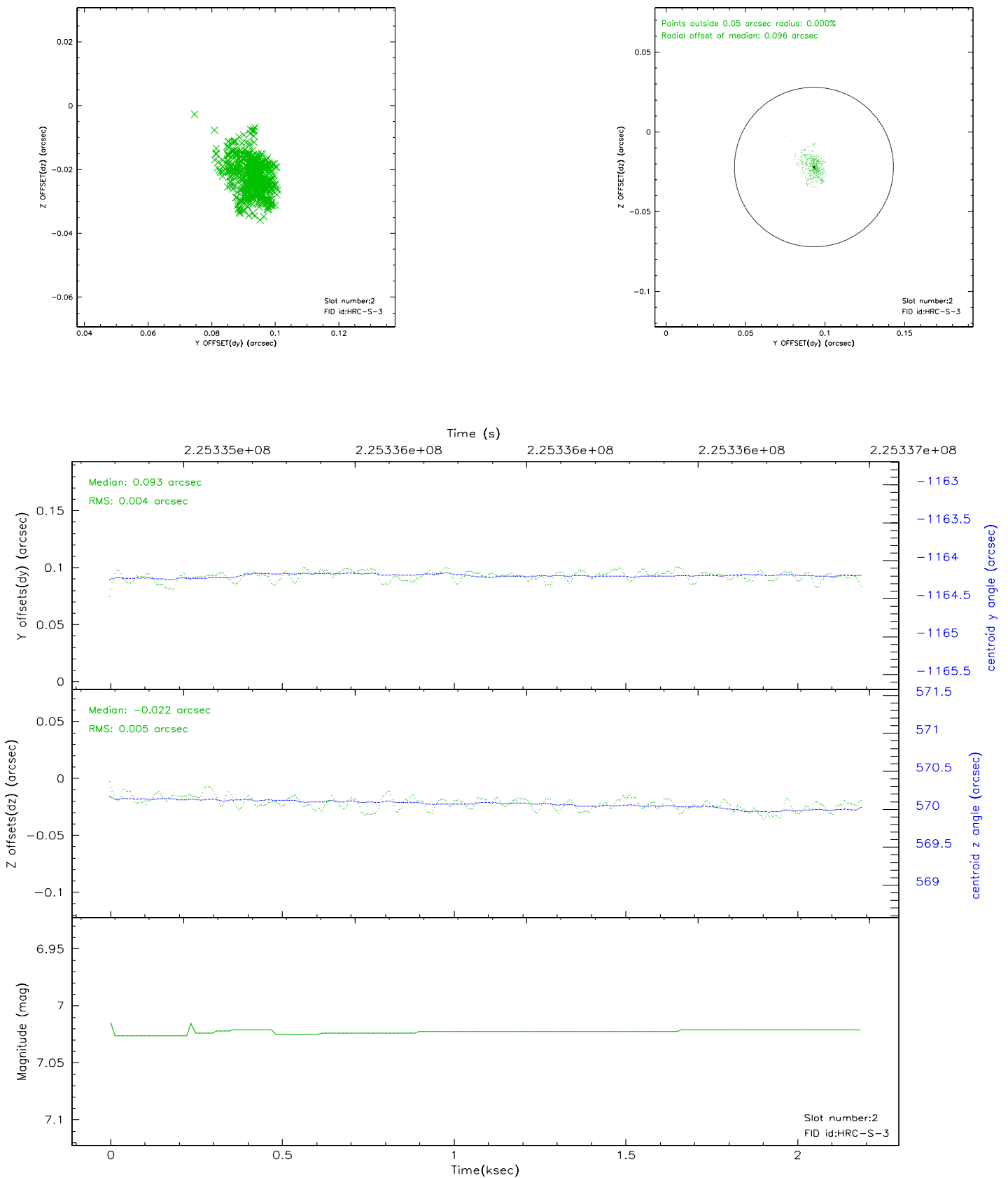
### 2.5.1 Slot 0



## 2.5.2 Slot 1

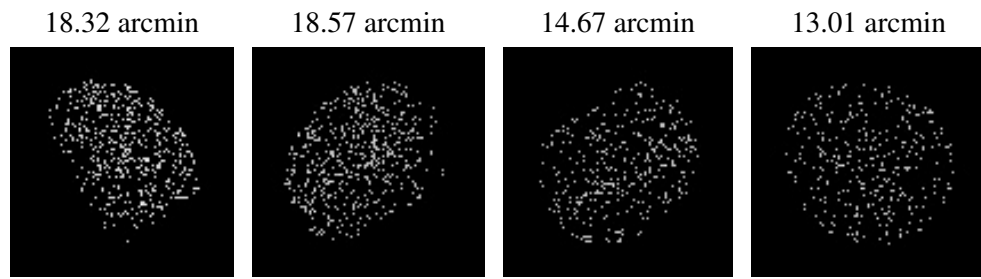


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

|                            |               |
|----------------------------|---------------|
| V&V Scientist              | Beth Sundheim |
| V&V Date (YYYY-MM-DD)      | 2006.02.24    |
| V&V Edition                | 1             |
| V&V Disposition and Status | OK            |
| V&V Charge Time            | 2.159931      |

### A.2 Comments

Window constraint satisfied.