

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7537 - L2 Version 3  
Chandra X-Ray Center

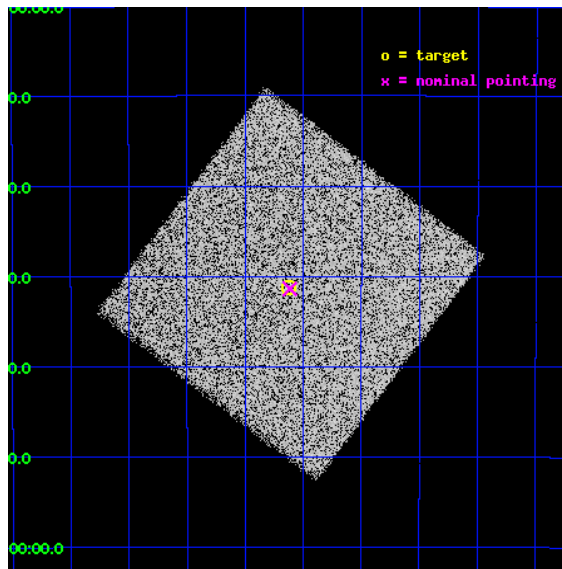
L2 Processing Date : Aug 12 2012

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# 1 Front

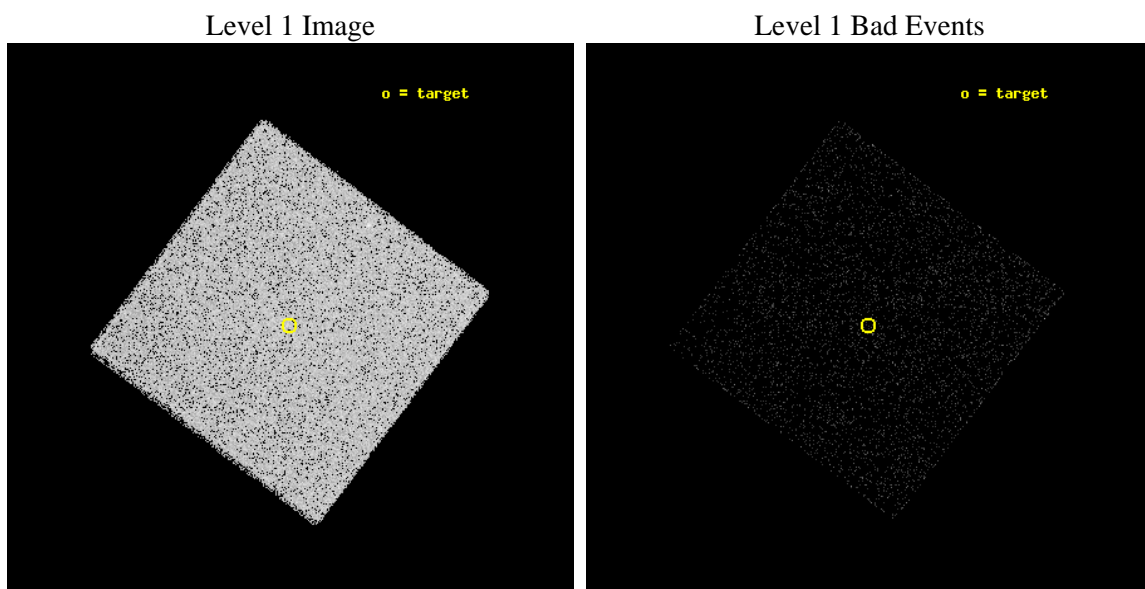
|          |  |                                       |
|----------|--|---------------------------------------|
| seq_num  | 400647   | Sequence number                       |
| obs_id   | 7537   | Observation id                        |
| title    | Faint persistent X-ray sources in the Galactic Bulge | Proposal titl                         |
| observer | Dr. Marc Klein-Wolt                                  | Principal investigator                |
| object   | XTE J1728-295  | Source name                           |
| ra_targ  | 262.157  | Observer's specified target RA [deg]  |
| dec_targ | -29.52   | Observer's specified target Dec [deg] |
| ra_nom   | 262.15357729626                                      | Nominal RA [deg]                      |
| dec_nom  | -29.523084981567                                     | Nominal Dec [deg]                     |
| roll_nom | 262.17650337615                                      | Nominal Roll [deg]                    |
| revision | 3  | Processing version of data            |
| ontime   | 1188.2313073874                                      | [s]                                   |
| livetime | 1176.2853048778                                      | Ontime multiplied by DTCOR            |
| l2events | 69731  | Number of level 2 events              |



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

|          |                     |                                |                |                 |   |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num  | 0                   | Obi number                     | sched_exp_time | 1000.000000     | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5               | Processing system revision     | ontime         | 1188.2313073874 | [s]                                     |
| caldbver | 4.5.1.1             | &#160                          | l1events       | 157668          | Number of level 1 events                |
| date     | 2012-08-12T06:30:14 | Date and time of file creation |                |                 |   |
| revision | 3                   | Processing version of data     |                |                 |   |

### 2.1.3 Events

#### Level 1 Events

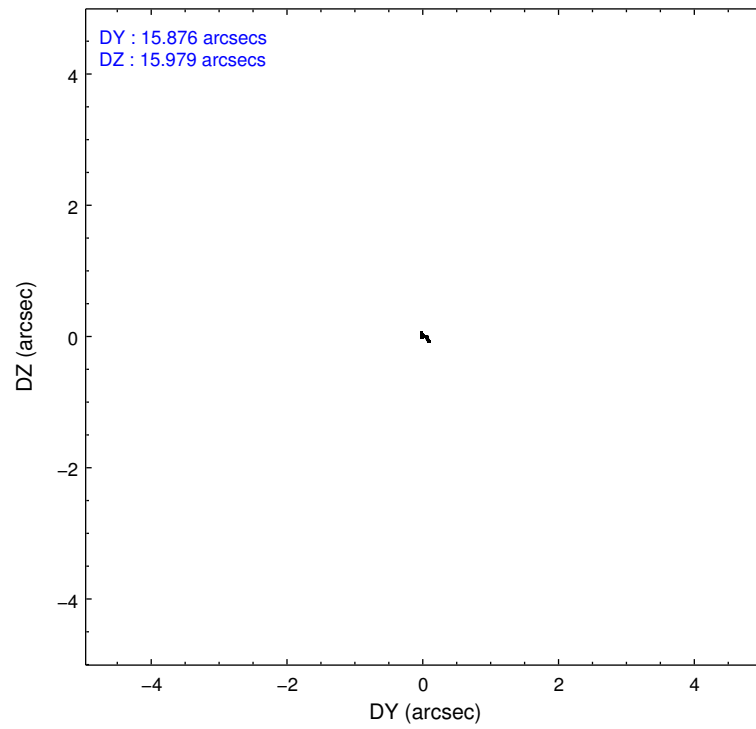
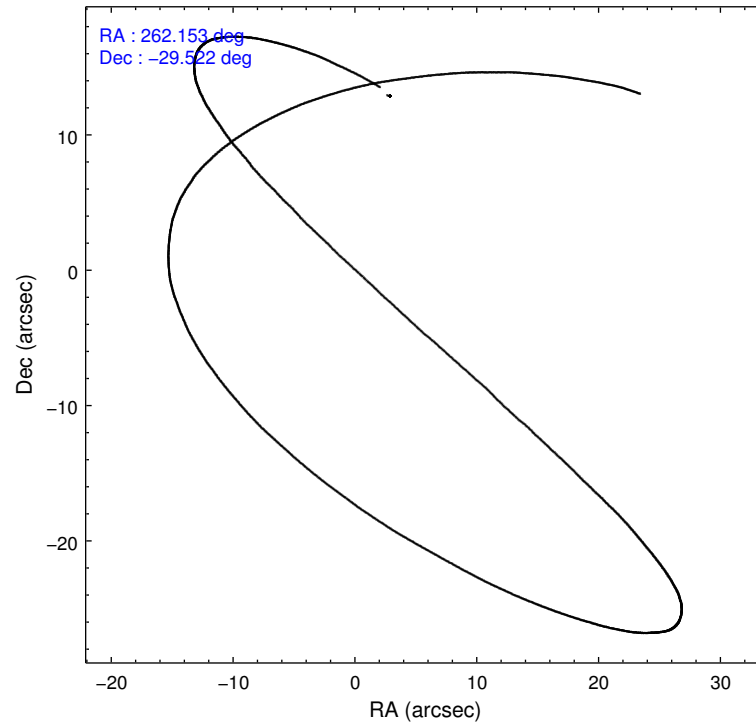
|                 |                      |
|-----------------|----------------------|
|                 | <b>segment<br/>0</b> |
| level 1 events  | 157668               |
| rejected events | 55067                |
| rejected %      | 34%                  |

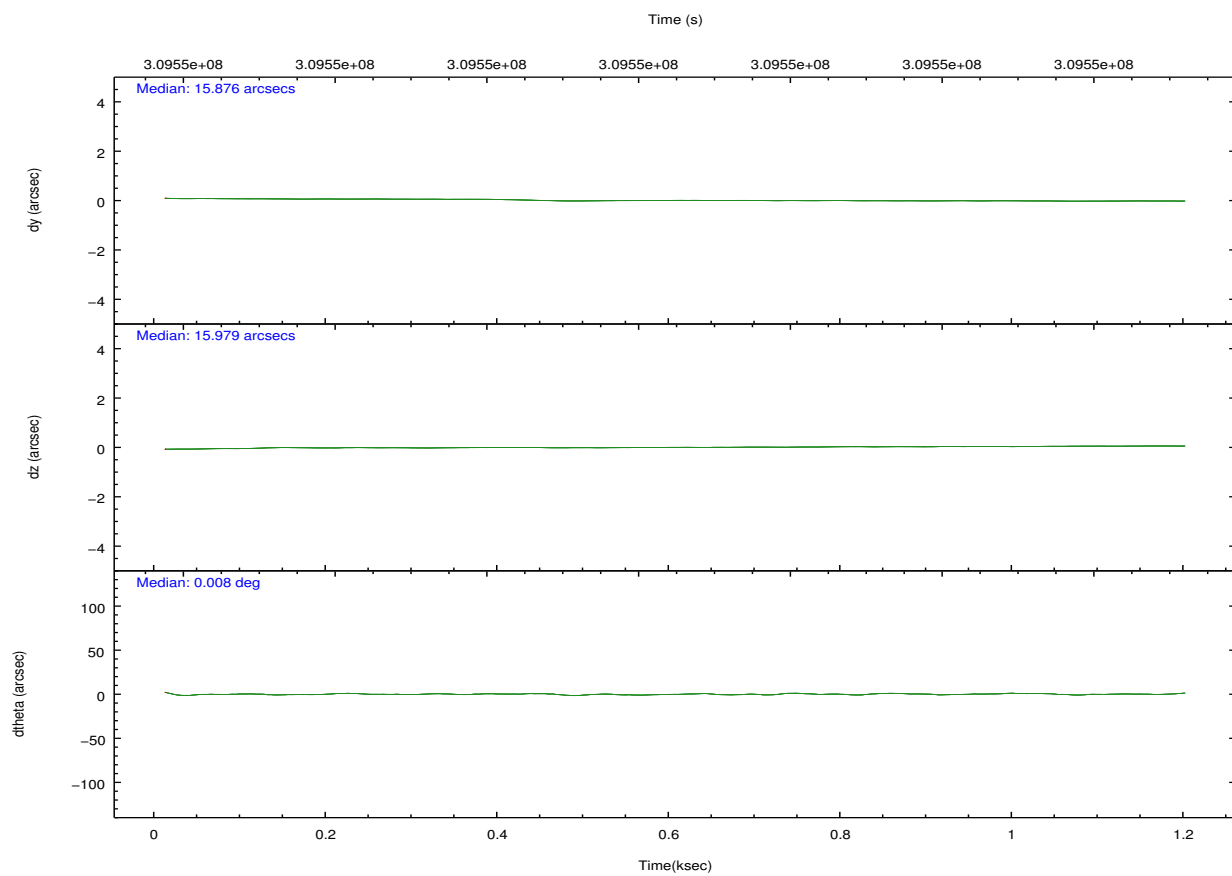
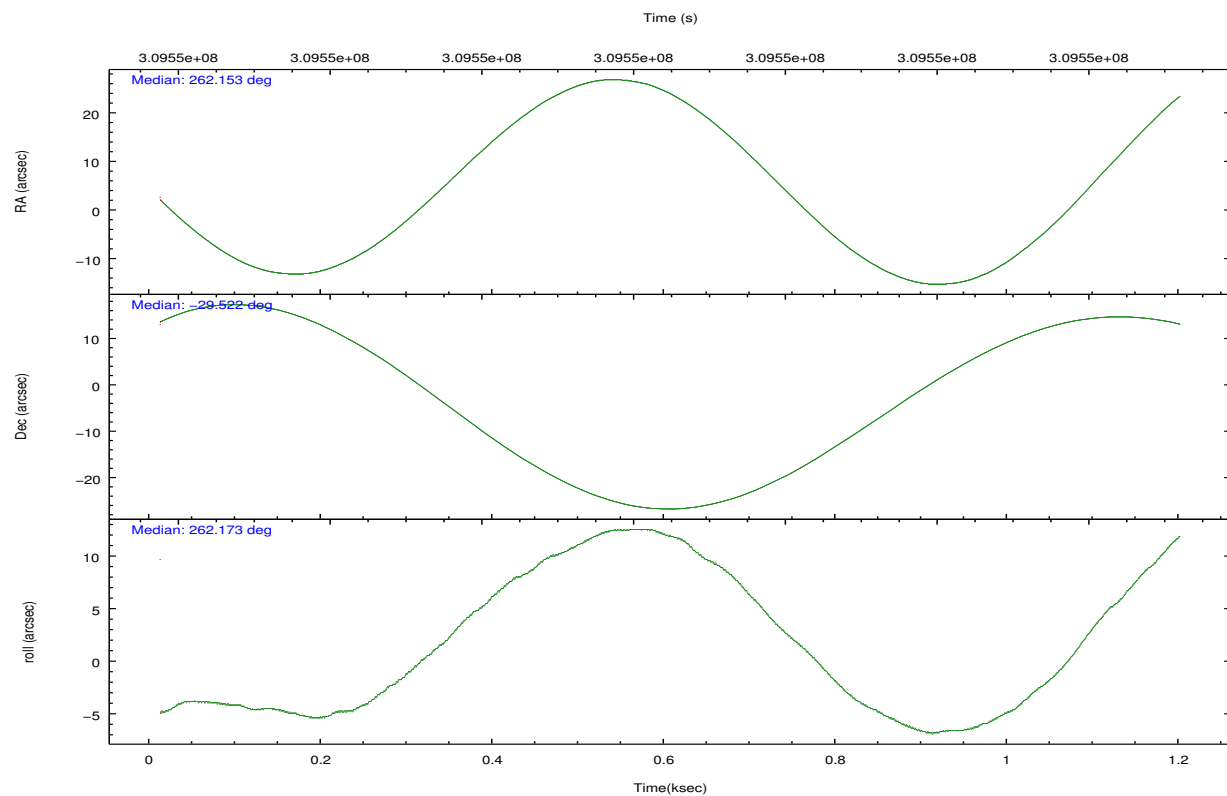
## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual               |
|-----------------------------------|---------------------|----------------------|
| Instrument                        | HRC                 | HRC                  |
| Detector                          | HRC-I               | HRC-I                |
| Grating                           | NONE                | NONE                 |
| Data mode                         | OBSERVING           | OBSERVING            |
| Observation mode                  | POINTING            | POINTING             |
| [deg] Pointing RA                 | 262.142155          | 262.153577296262     |
| [deg] Pointing Dec                | -29.498736          | -29.52308498156653   |
| [deg] Pointing Roll               | 262.266395          | 262.1765033761483    |
| [mm] SIM focus pos                | -1.040293           | -1.038866356238299   |
| [mm] SIM defocus                  | 0                   | 0.001426264420575141 |
| [mm] SIM translation stage pos    | 126.985494          | 126.9829799899862    |
| [mm] SIM translation stage offset | 0                   | 0.002508901615314585 |
| [s] Observation start time (MET)  | 309548043.184000    | 309547509.1262       |
| Observation start date            | 2007-10-23T17:32:58 | 2007-10-23T17:25:09  |
| [s] Observation end time (MET)    | 309549043.184000    | 309549343.36379      |
| Observation end date              | 2007-10-23T17:49:38 | 2007-10-23T17:55:43  |

| Parameter                    | Planned   | Actual  |
|------------------------------|-----------|---------|
| Obspar format version number | 7         | 7       |
| Obspar file type             | PREDICTED | ACTUAL  |
| Obspar update status         | NONE      | UPDATED |

## 2.3 Aspect





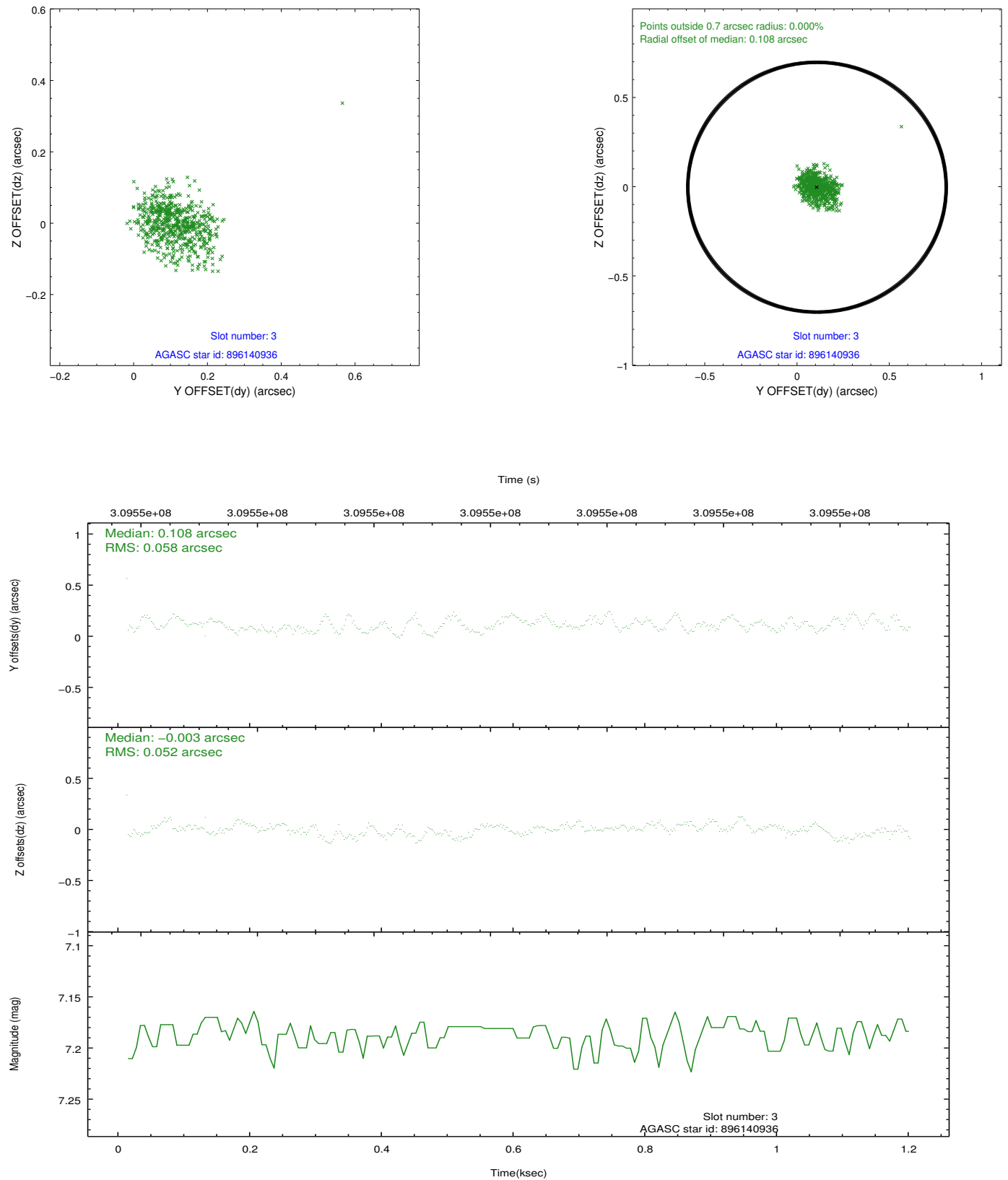
Slot Statistics

| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra         | dec        | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0    | FID    | HRC-I-2   | 7.00 | 291   | 0.074  | -0.056 | 0.007 | 0.012 | 0.000000   | 0.000000   | 841.00   | -1305.71 |
| 1    | FID    | HRC-I-3   | 7.06 | 291   | -0.098 | 0.007  | 0.006 | 0.009 | 0.000000   | 0.000000   | -1197.42 | 995.98   |
| 2    | FID    | HRC-I-4   | 6.99 | 291   | 0.142  | -0.039 | 0.006 | 0.012 | 0.000000   | 0.000000   | 1267.09  | 1001.47  |
| 3    | GUIDE  | 896140936 | 7.19 | 581   | 0.108  | -0.003 | 0.082 | 0.123 | 261.373497 | -29.670673 | 947.23   | -2294.39 |
| 4    | GUIDE  | 896271800 | 9.02 | 581   | -0.068 | -0.028 | 0.087 | 0.141 | 262.457136 | -29.780549 | 877.70   | 1111.72  |
| 5    | GUIDE  | 896274624 | 9.07 | 581   | -0.124 | -0.115 | 0.084 | 0.140 | 262.299427 | -28.972912 | -1938.62 | 241.48   |
| 6    | GUIDE  | 896275176 | 7.82 | 581   | -0.166 | 0.073  | 0.058 | 0.092 | 262.150337 | -29.127139 | -1330.53 | -150.41  |
| 7    | GUIDE  | 966662760 | 8.69 | 580   | 0.248  | 0.073  | 0.068 | 0.104 | 262.815203 | -30.091834 | 1839.54  | 2369.23  |

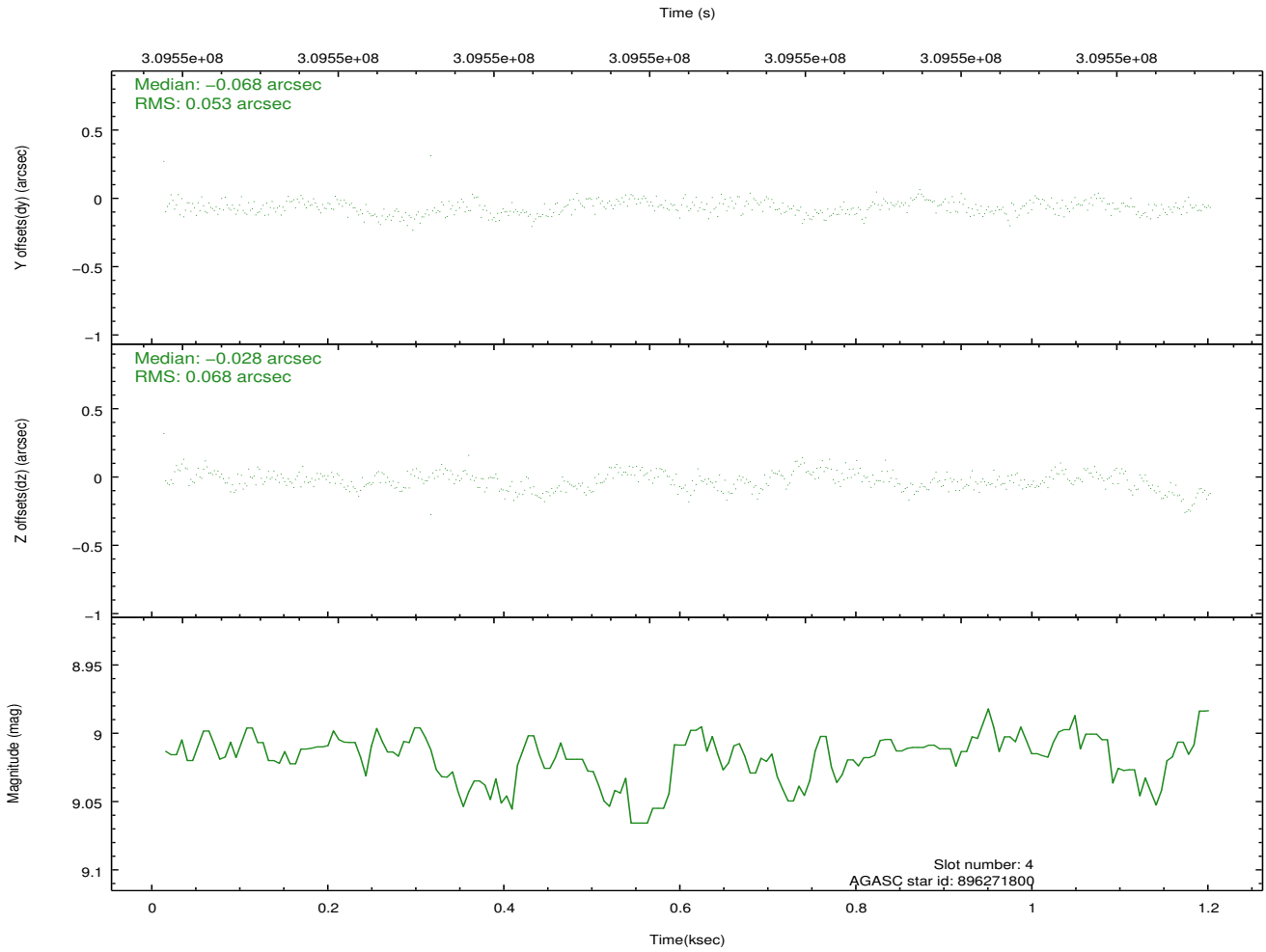
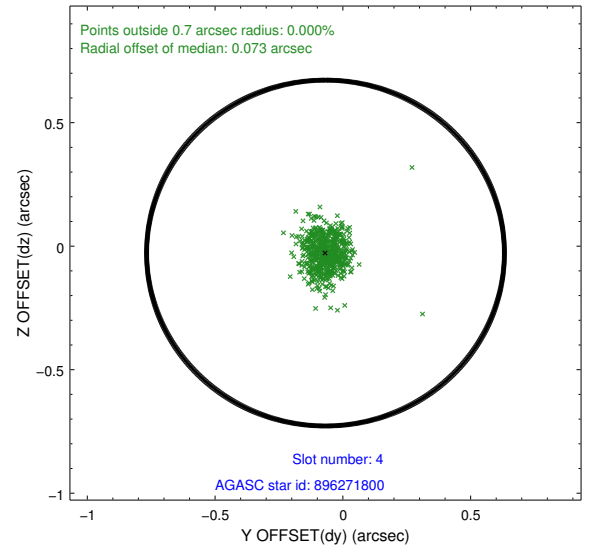
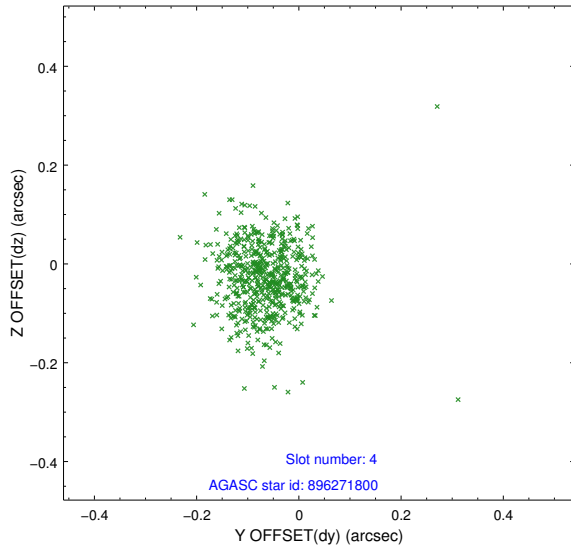


## 2.4 Star Slots

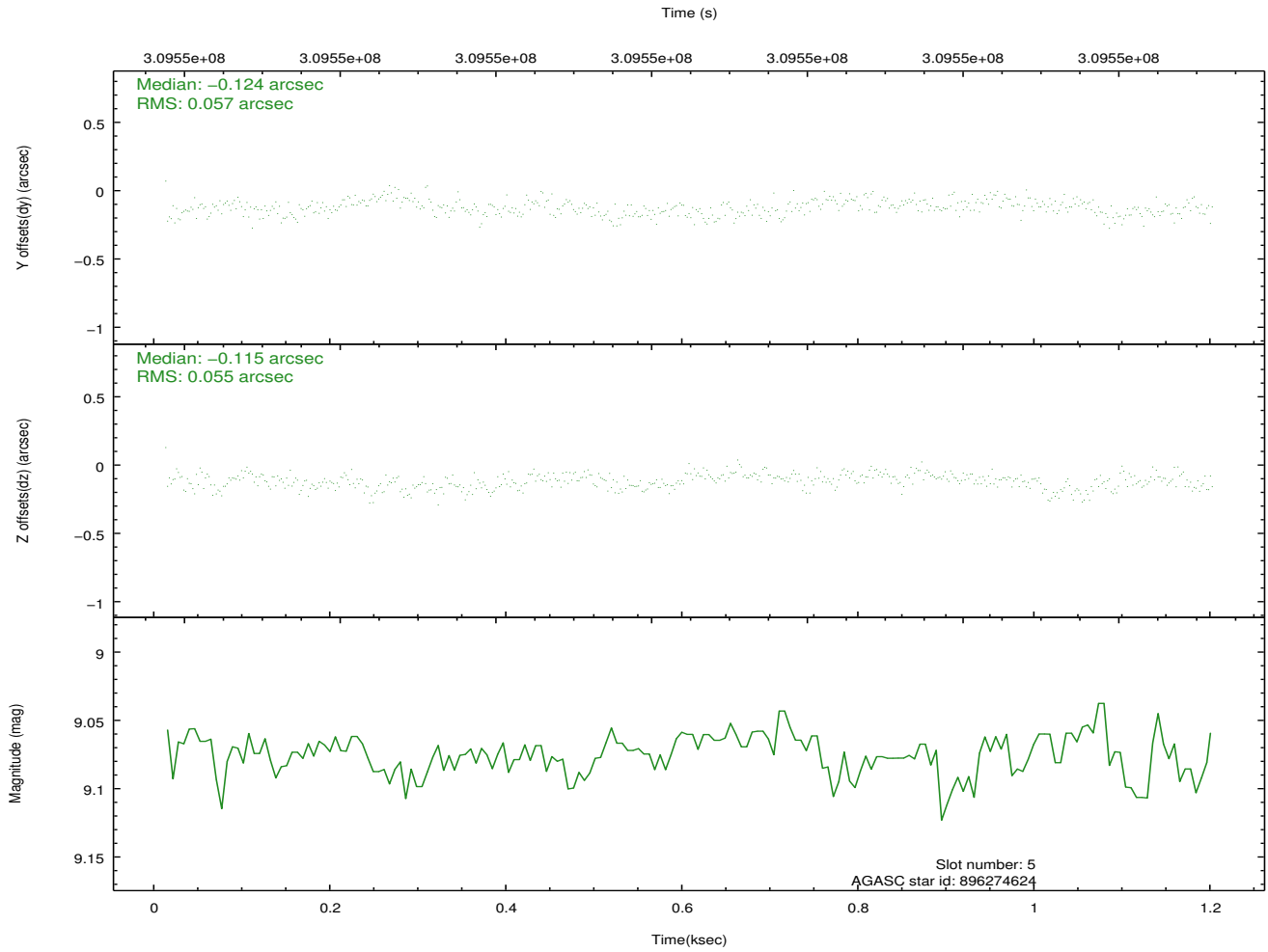
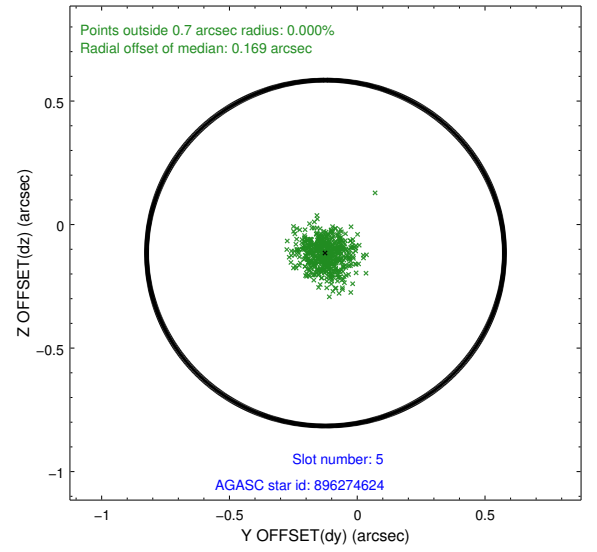
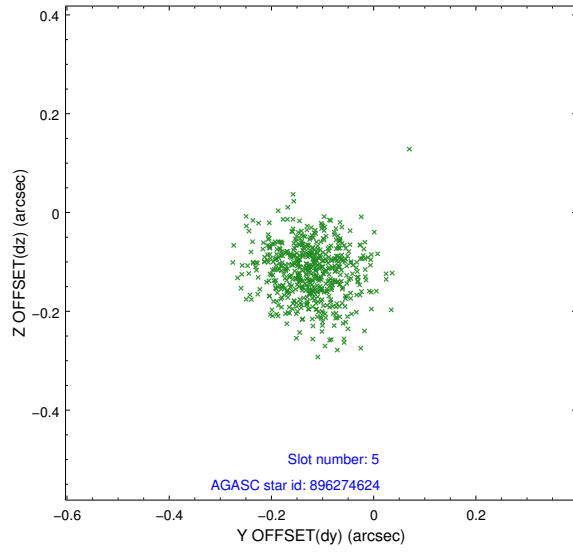
### 2.4.1 Slot 3



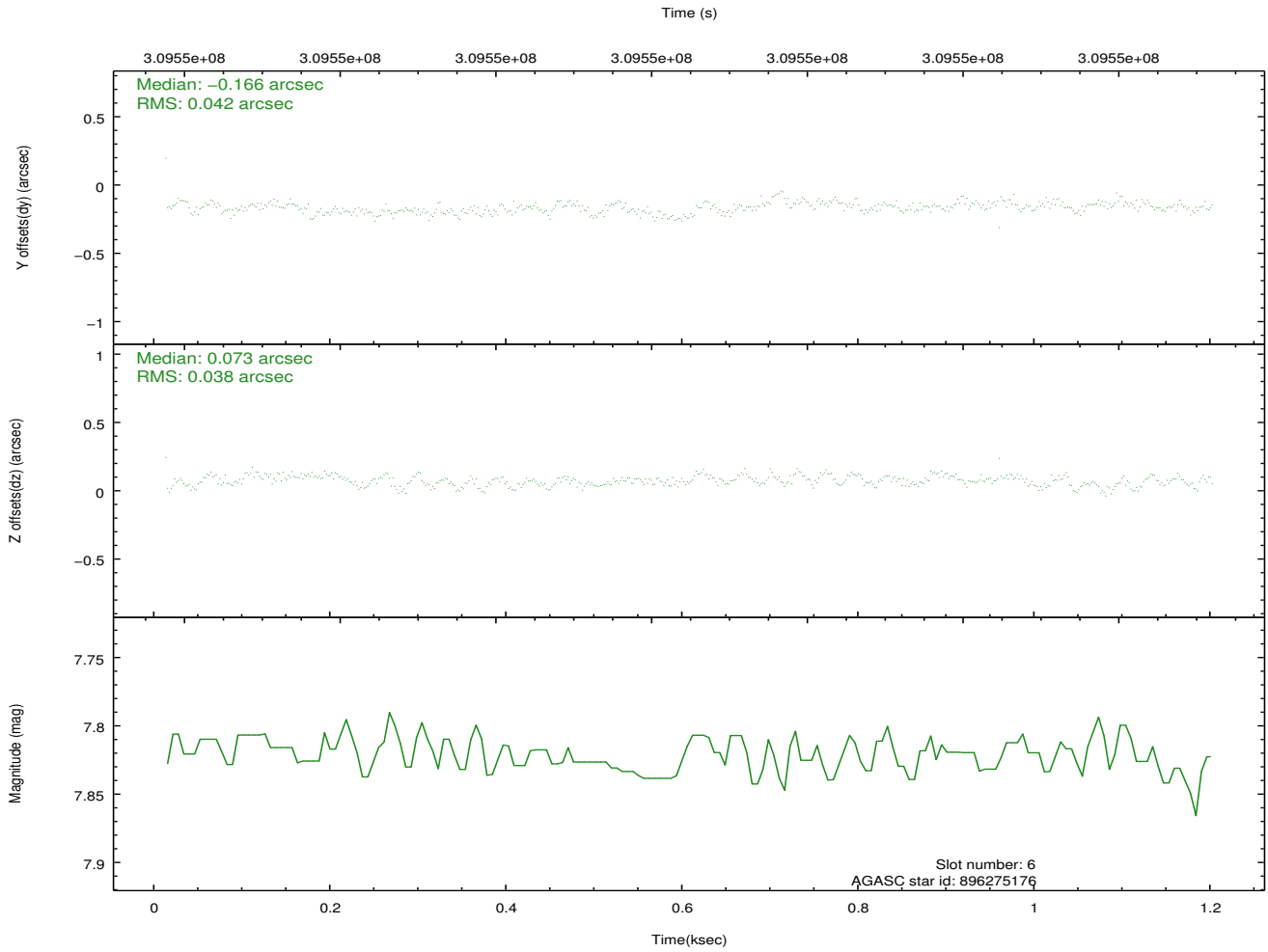
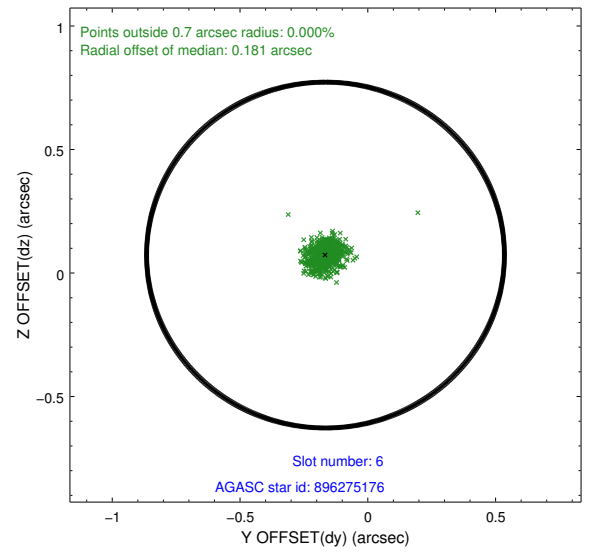
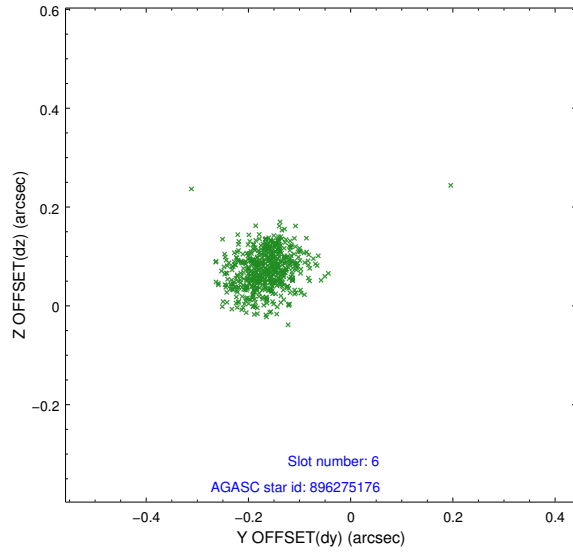
## 2.4.2 Slot 4



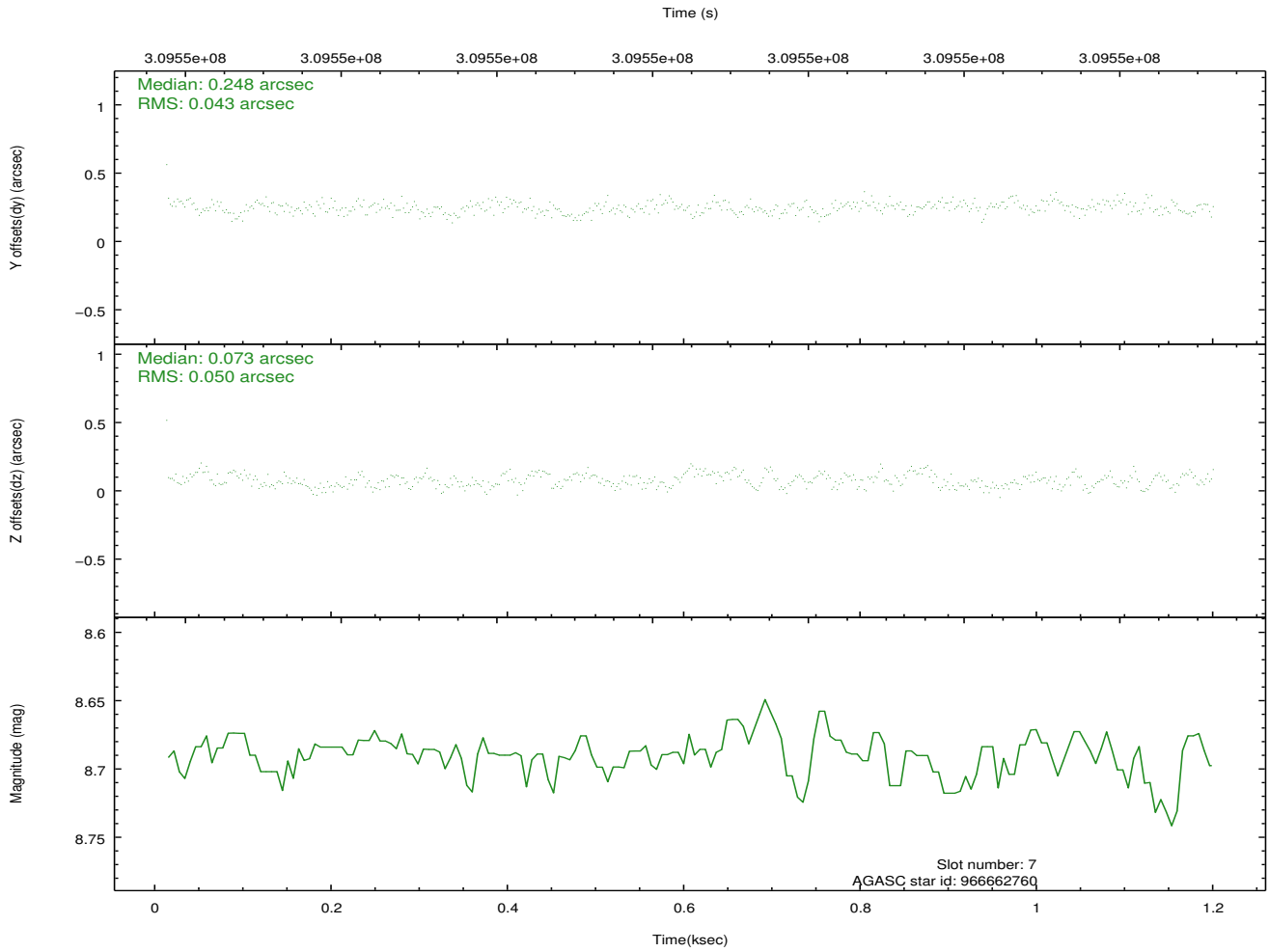
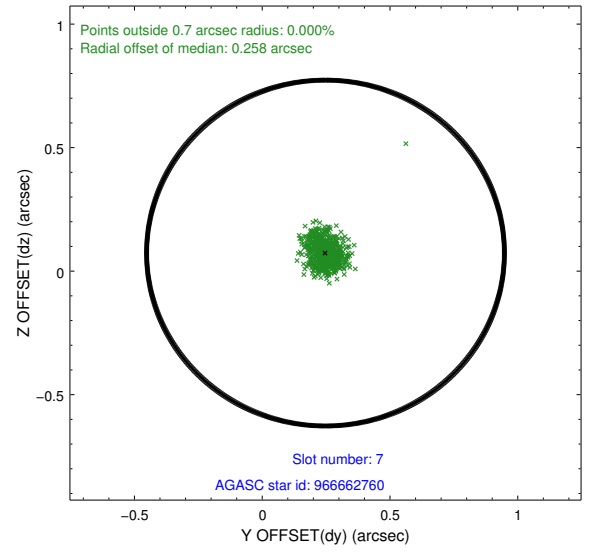
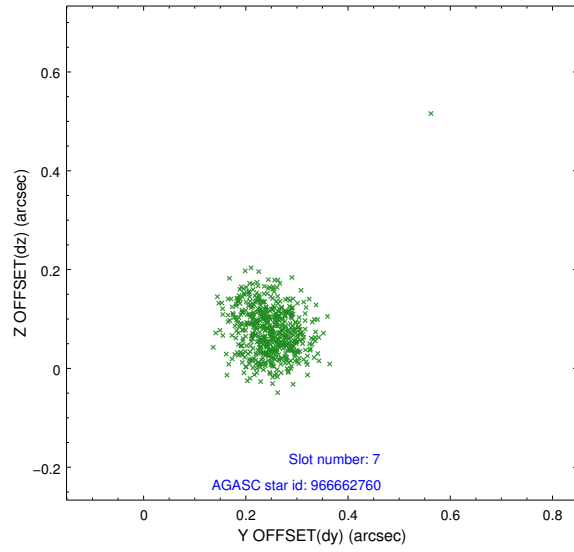
### 2.4.3 Slot 5



## 2.4.4 Slot 6

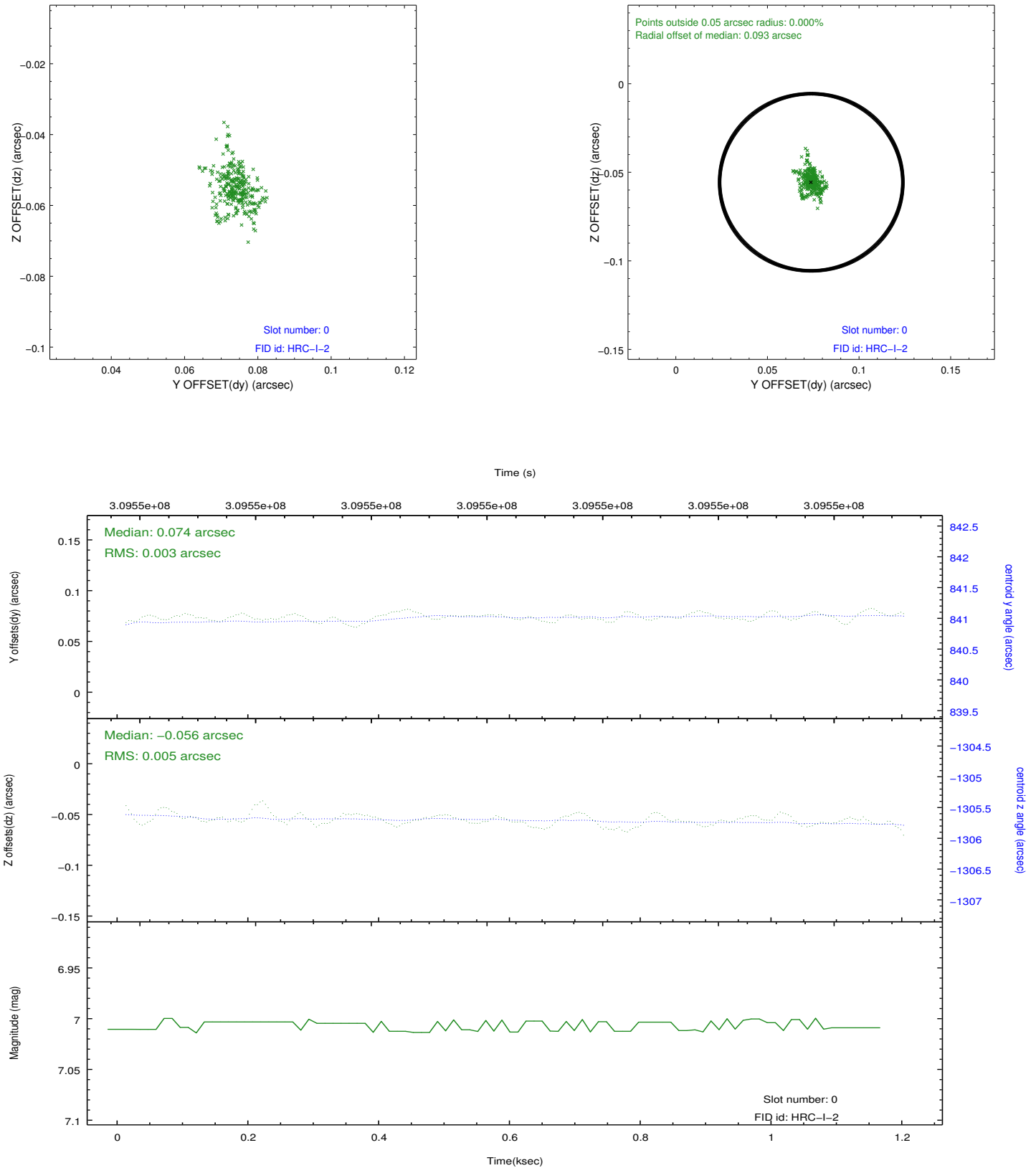


## 2.4.5 Slot 7

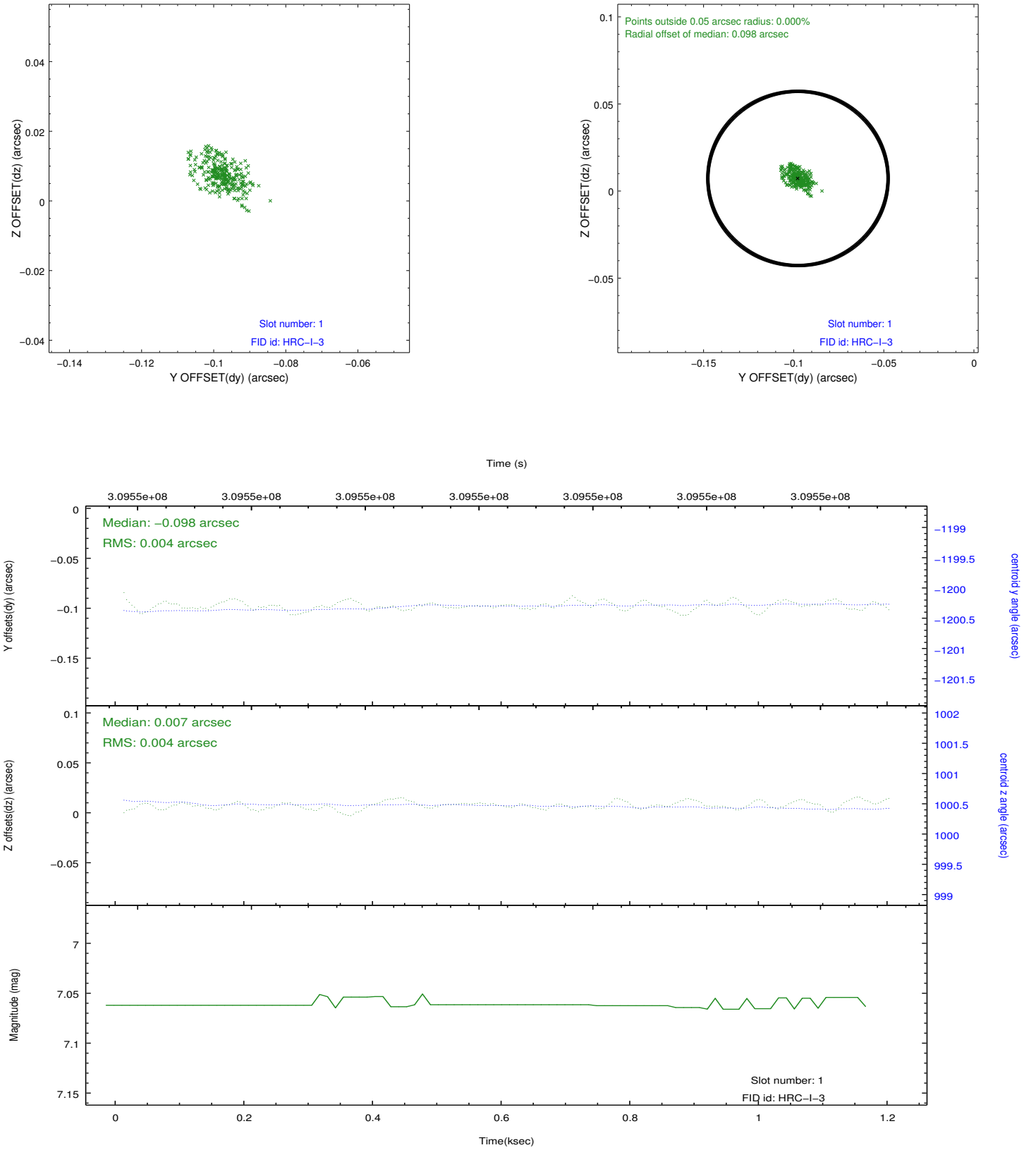


## 2.5 FID Slots

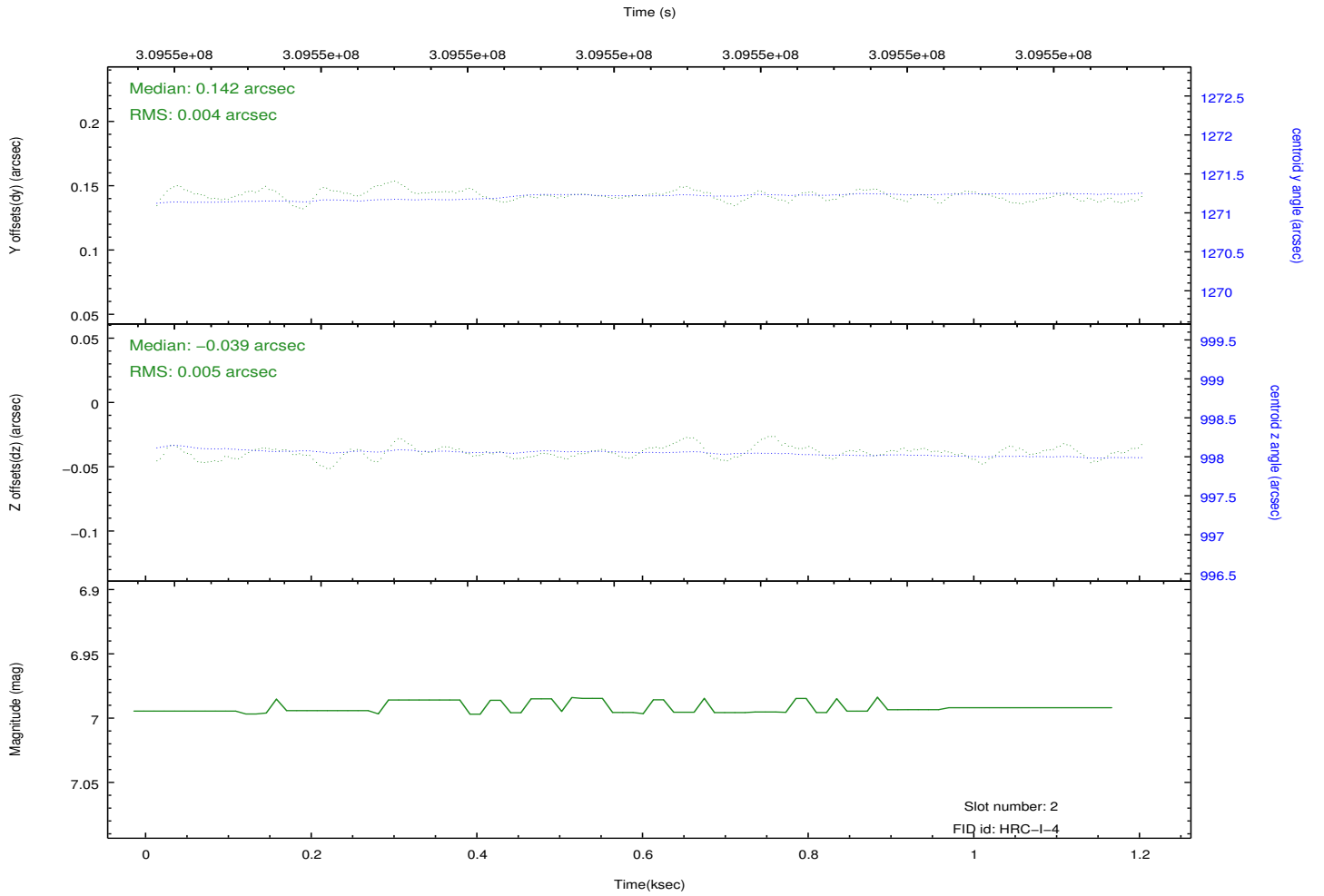
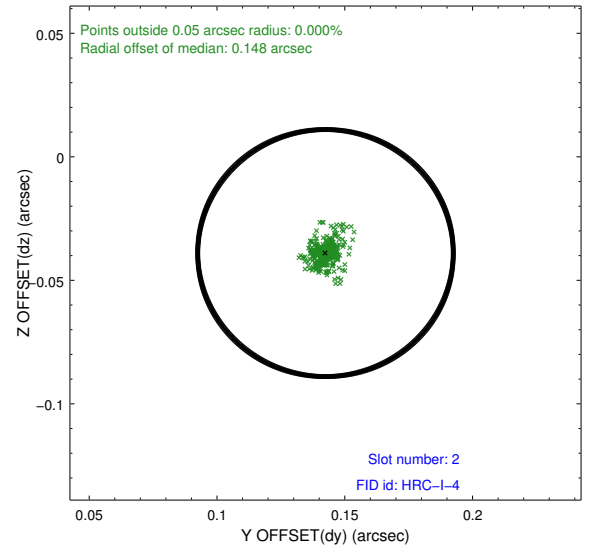
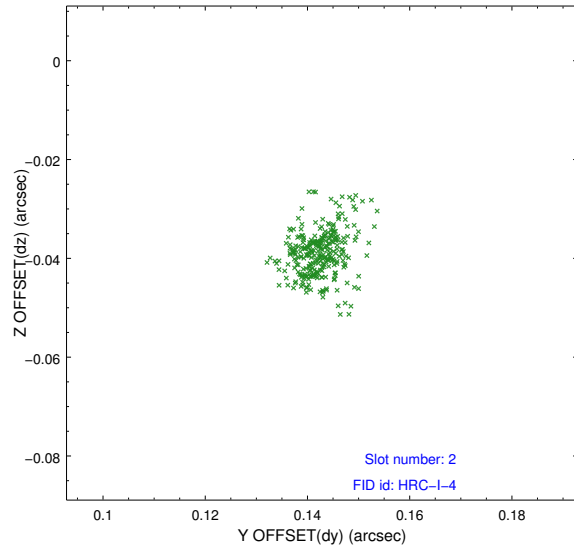
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

|                            |            |
|----------------------------|------------|
| V&V Scientist              | Jen Lauer  |
| V&V Date (YYYY-MM-DD)      | 2012.08.16 |
| V&V Edition                | 1          |
| V&V Disposition and Status | OK         |
| V&V Charge Time            | 1.1882313  |

### A.2 Comments