

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 296 - L2 Version 6  
Chandra X-Ray Center

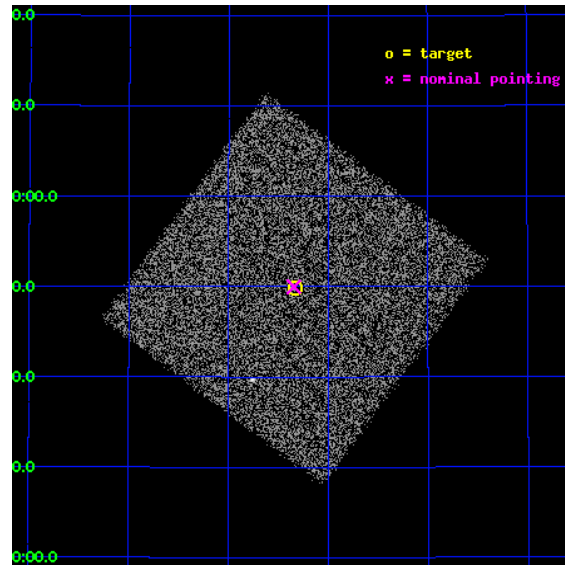
L2 Processing Date : Aug 28 2012

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# 1 Front

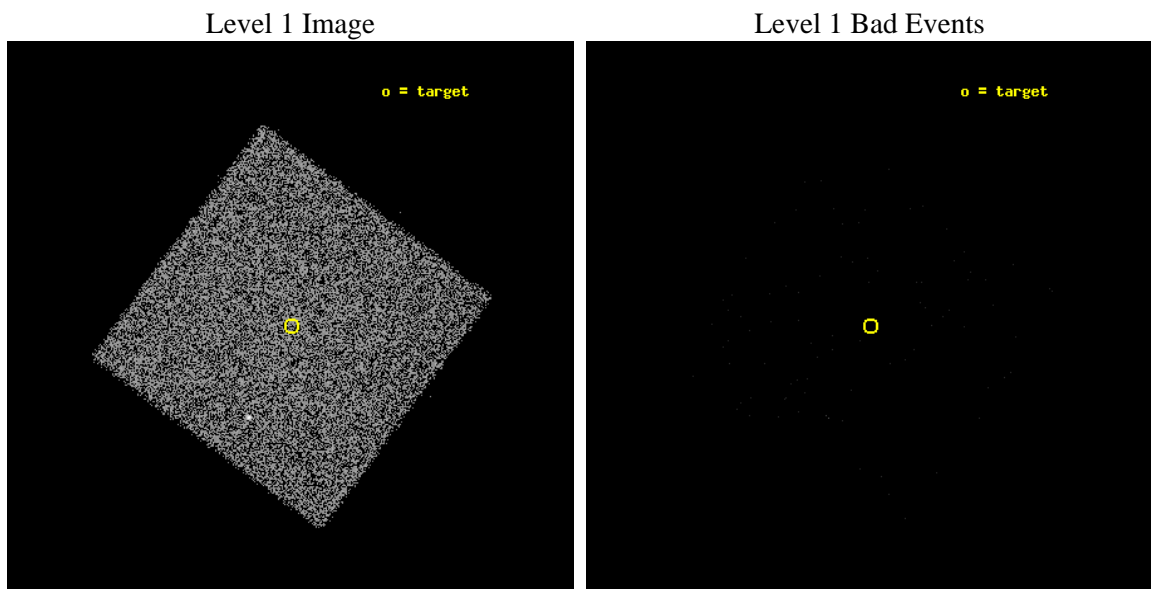
|          |                    |                                       |
|----------|--------------------|---------------------------------------|
| seq_num  | 600056             | Sequence number                       |
| obs_id   | 296                | Observation id                        |
| title    | MONITORING M31     | Proposal title                        |
| observer | Dr. Stephen Murray | Principal investigator                |
| object   | M31 - North 2      | Source name                           |
| ra_targ  | 11.333333          | Observer's specified target RA [deg]  |
| dec_targ | 41.829722          | Observer's specified target Dec [deg] |
| ra_nom   | 11.335871826308    | Nominal RA [deg]                      |
| dec_nom  | 41.833088737397    | Nominal Dec [deg]                     |
| roll_nom | 81.606657313889    | Nominal Roll [deg]                    |
| revision | 6                  | Processing version of data            |
| ontime   | 1208.2187944353    | [s]                                   |
| livetime | 1202.4156900778    | Ontime multiplied by DTCOR            |
| l2events | 29495              | 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         | 1208.2187944353 | [s]                                     |
| caldbver | 4.5.1.1             | &#160                          | l1events       | 53229           | Number of level 1 events                |
| date     | 2012-08-28T04:50:57 | Date and time of file creation |                |                 |   |
| revision | 6                   | Processing version of data     |                |                 |   |

### 2.1.3 Events

#### Level 1 Events

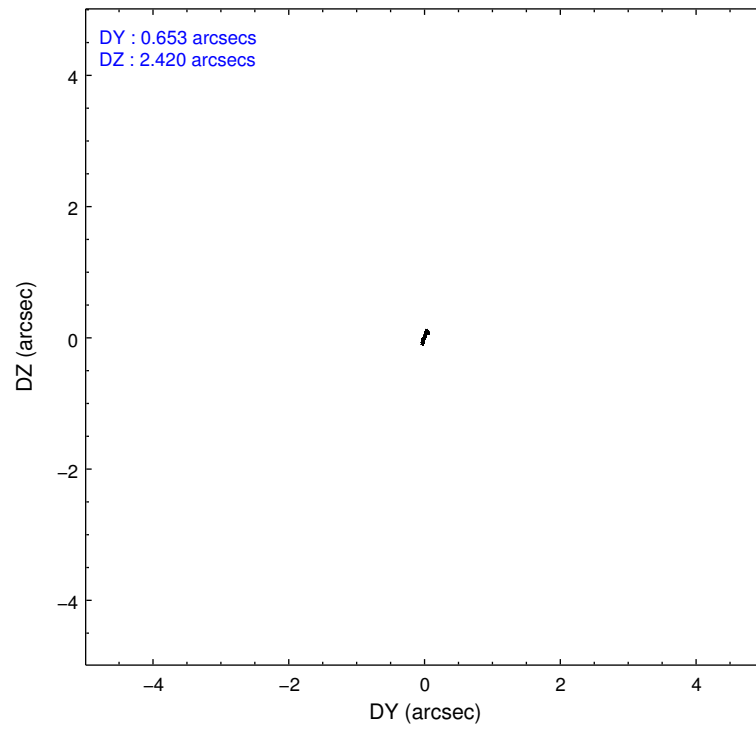
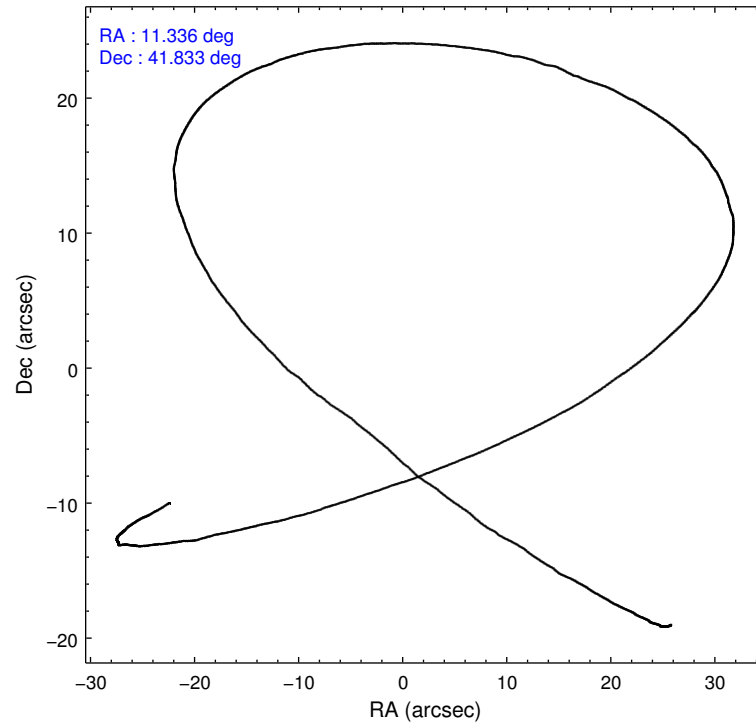
|                 |                      |
|-----------------|----------------------|
|                 | <b>segment<br/>0</b> |
| level 1 events  | 53229                |
| rejected events | 8970                 |
| rejected %      | 16%                  |

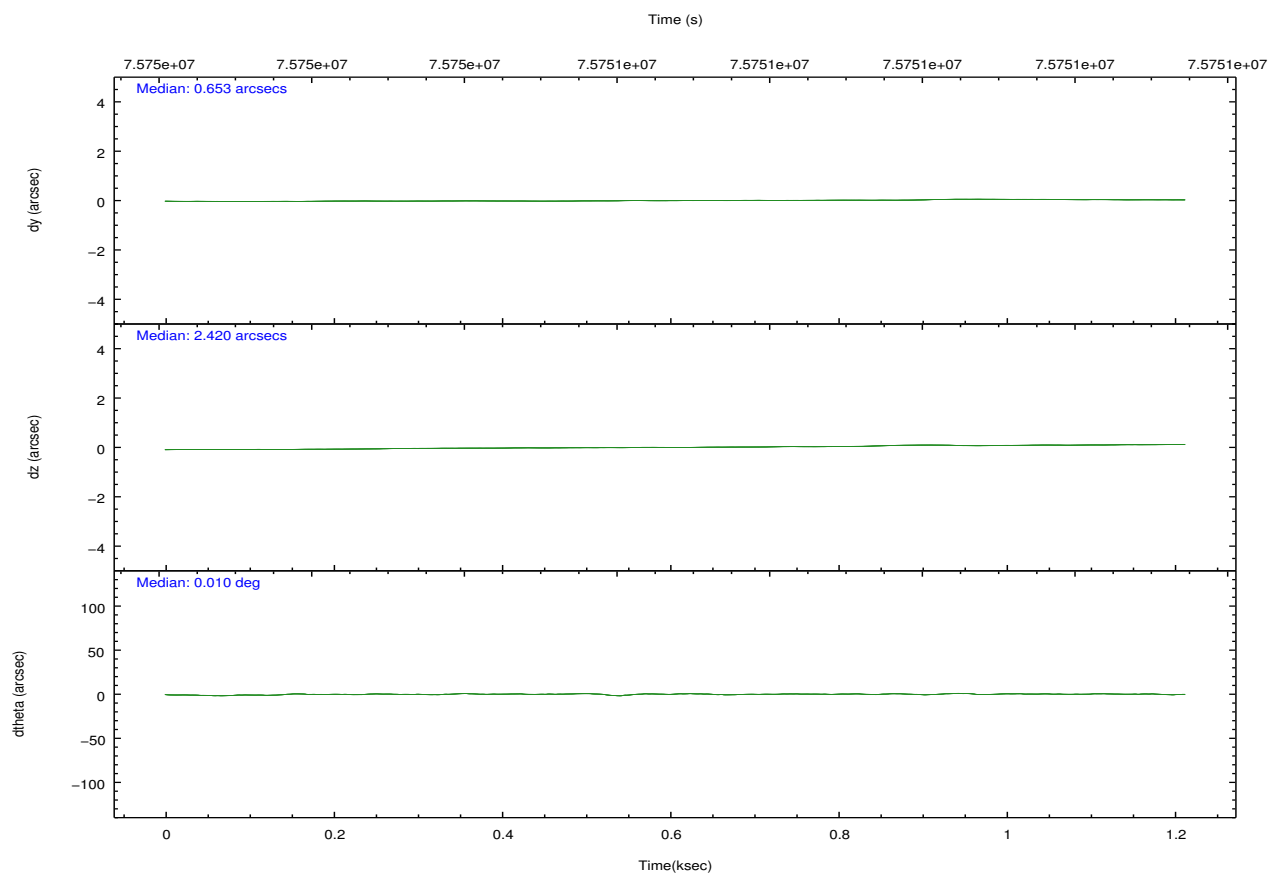
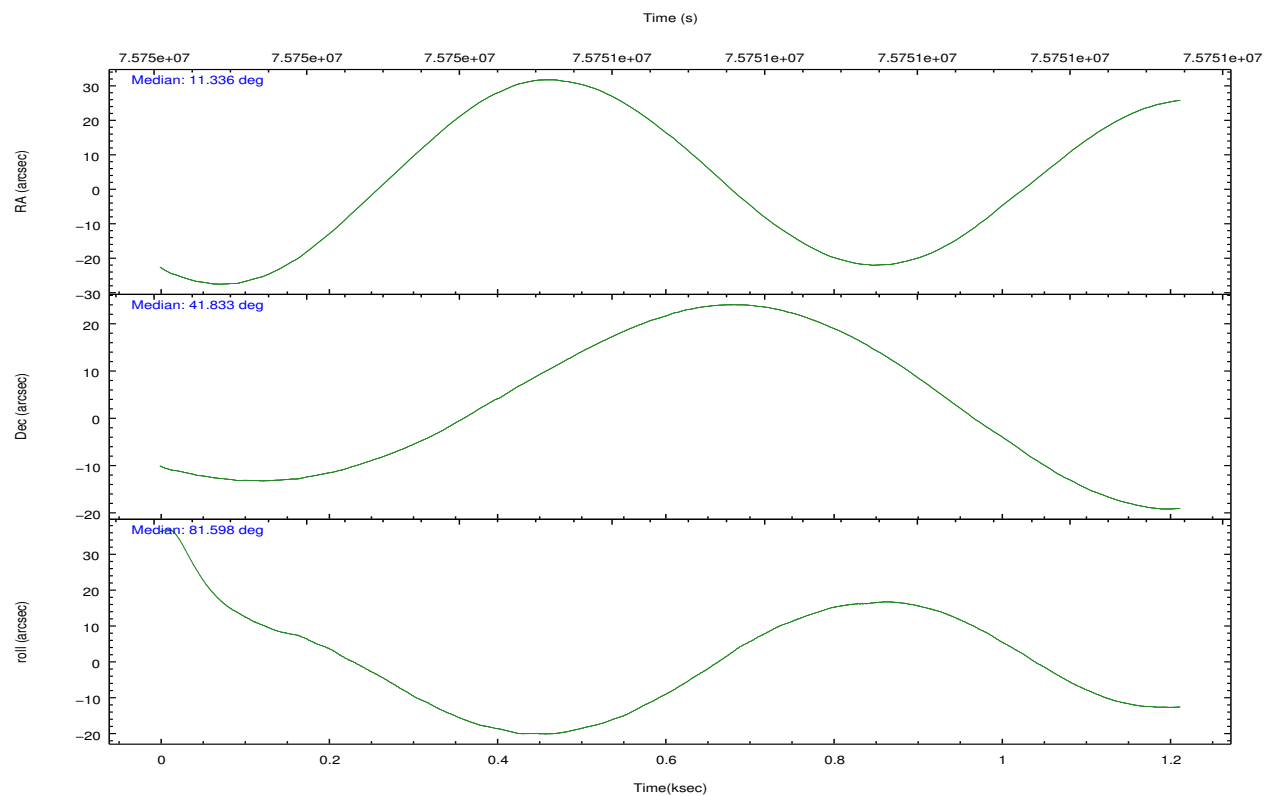
## 2.2 Compared Parameters

| 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                 | 11.350390           | 11.33587182630809    |
| [deg] Pointing Dec                | 41.808328           | 41.83308873739662    |
| [deg] Pointing Roll               | 81.692476           | 81.60665731388852    |
| [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)  | 75750284.184000     | 75749888.252517      |
| Observation start date            | 2000-05-26T17:43:40 | 2000-05-26T17:38:08  |
| [s] Observation end time (MET)    | 75751284.184000     | 75751957.727593      |
| Observation end date              | 2000-05-26T18:00:20 | 2000-05-26T18:12:37  |

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

## 2.3 Aspect





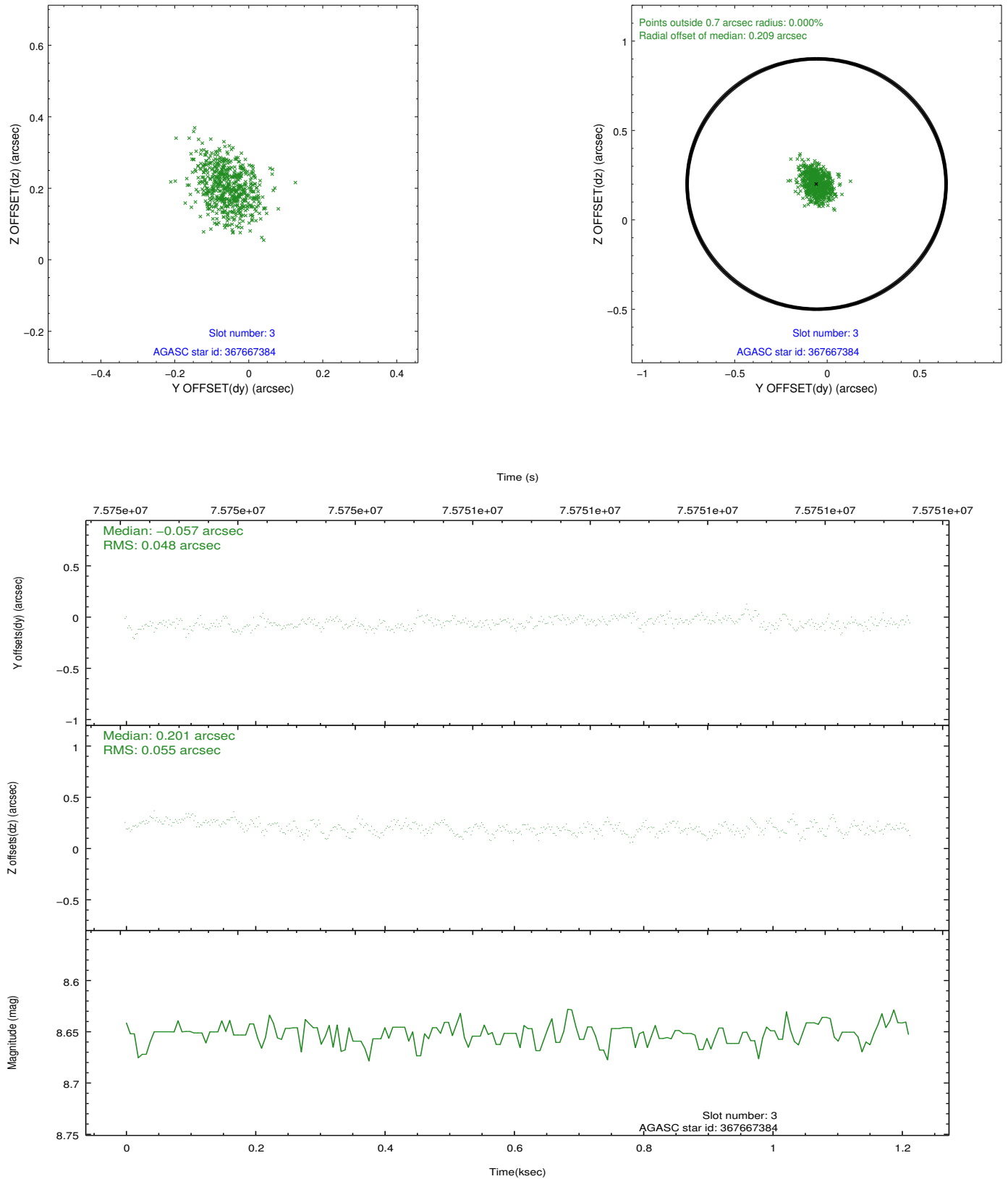
### Slot Statistics

| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra        | dec       | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0    | FID    | HRC-I-1   | 6.96 | 296   | 0.062  | -0.018 | 0.006 | 0.012 | 0.000000  | 0.000000  | -756.04  | -1290.14 |
| 1    | FID    | HRC-I-3   | 7.05 | 296   | 0.022  | -0.016 | 0.006 | 0.011 | 0.000000  | 0.000000  | -1187.06 | 1010.08  |
| 2    | FID    | HRC-I-4   | 7.00 | 296   | 0.030  | -0.055 | 0.006 | 0.009 | 0.000000  | 0.000000  | 1282.77  | 1015.35  |
| 3    | GUIDE  | 367667384 | 8.65 | 593   | -0.057 | 0.201  | 0.077 | 0.124 | 12.077552 | 41.596878 | -460.19  | -2046.88 |
| 4    | GUIDE  | 367664016 | 9.38 | 593   | -0.104 | 0.178  | 0.100 | 0.160 | 12.105776 | 41.954692 | 823.58   | -1928.00 |
| 5    | GUIDE  | 367663272 | 9.30 | 593   | 0.088  | -0.163 | 0.113 | 0.401 | 10.656279 | 41.699429 | -647.08  | 1785.94  |
| 6    | GUIDE  | 367658664 | 9.63 | 591   | 0.115  | -0.250 | 0.151 | 0.237 | 10.374070 | 41.369746 | -1928.23 | 2385.43  |
| 7    | GUIDE  | 367660528 | 9.54 | 592   | -0.049 | 0.083  | 0.102 | 0.168 | 11.676845 | 42.311657 | 1918.73  | -594.71  |

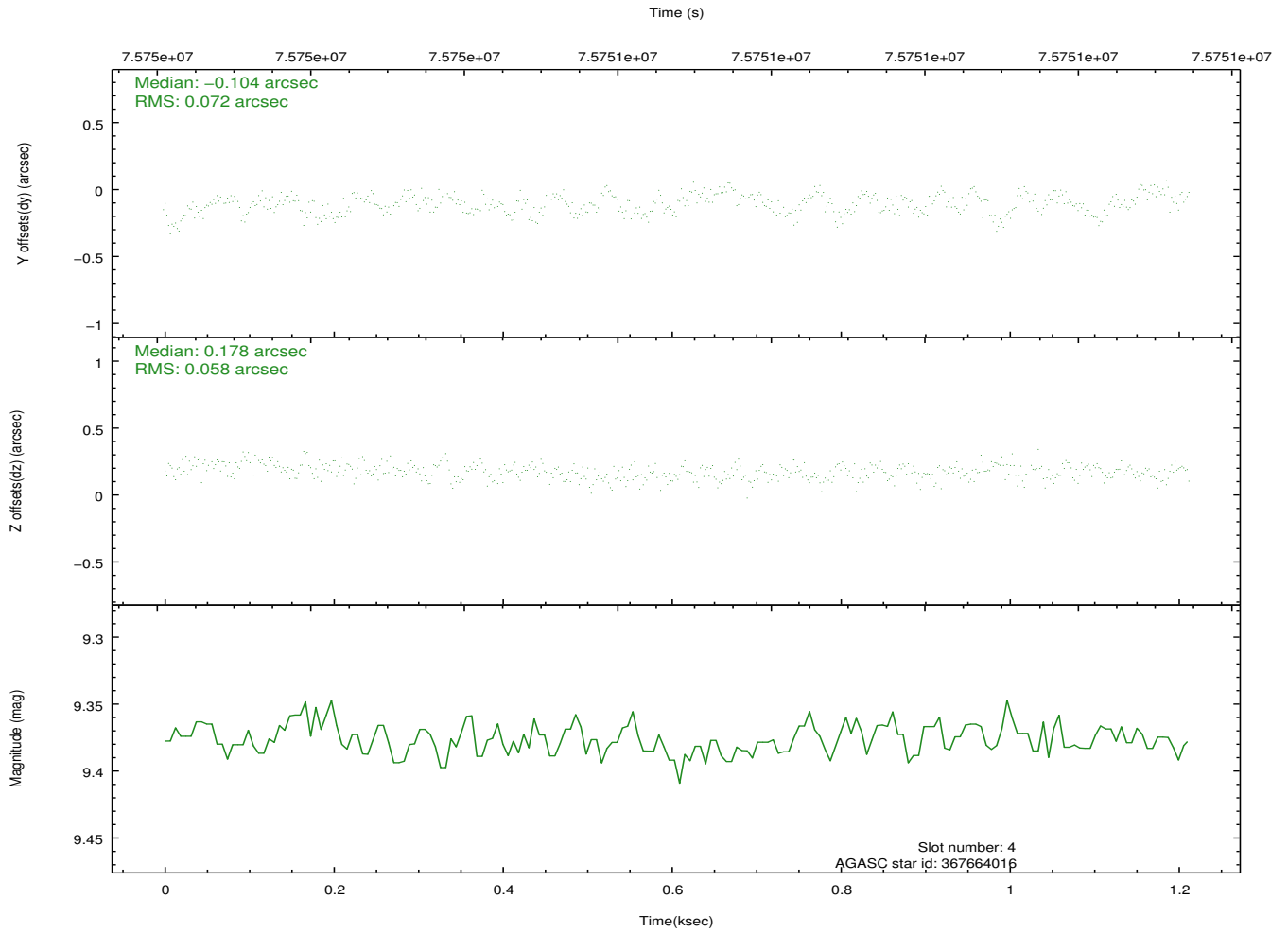
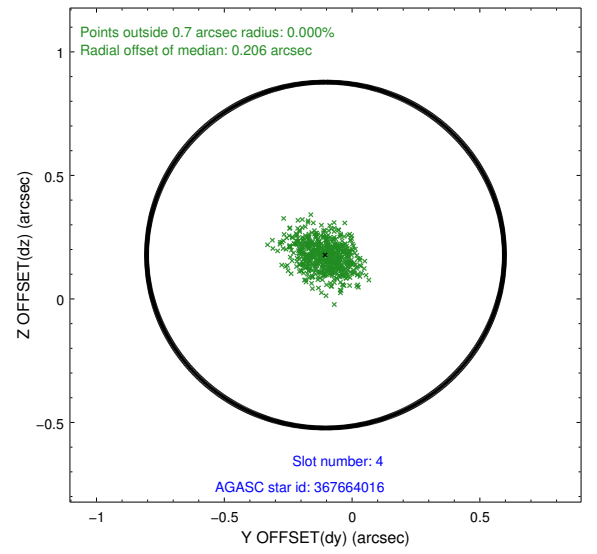
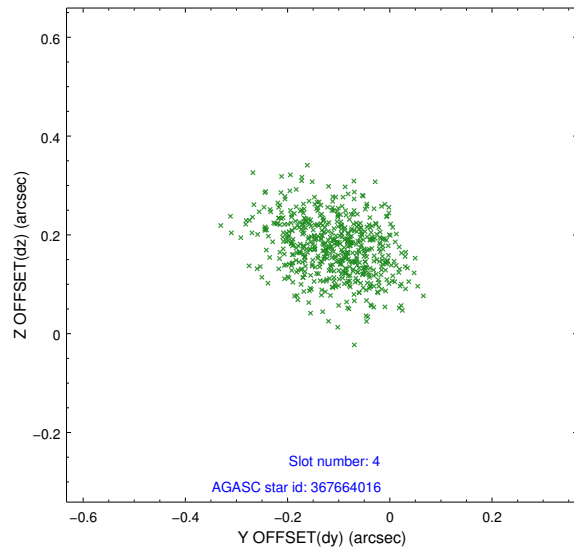


## 2.4 Star Slots

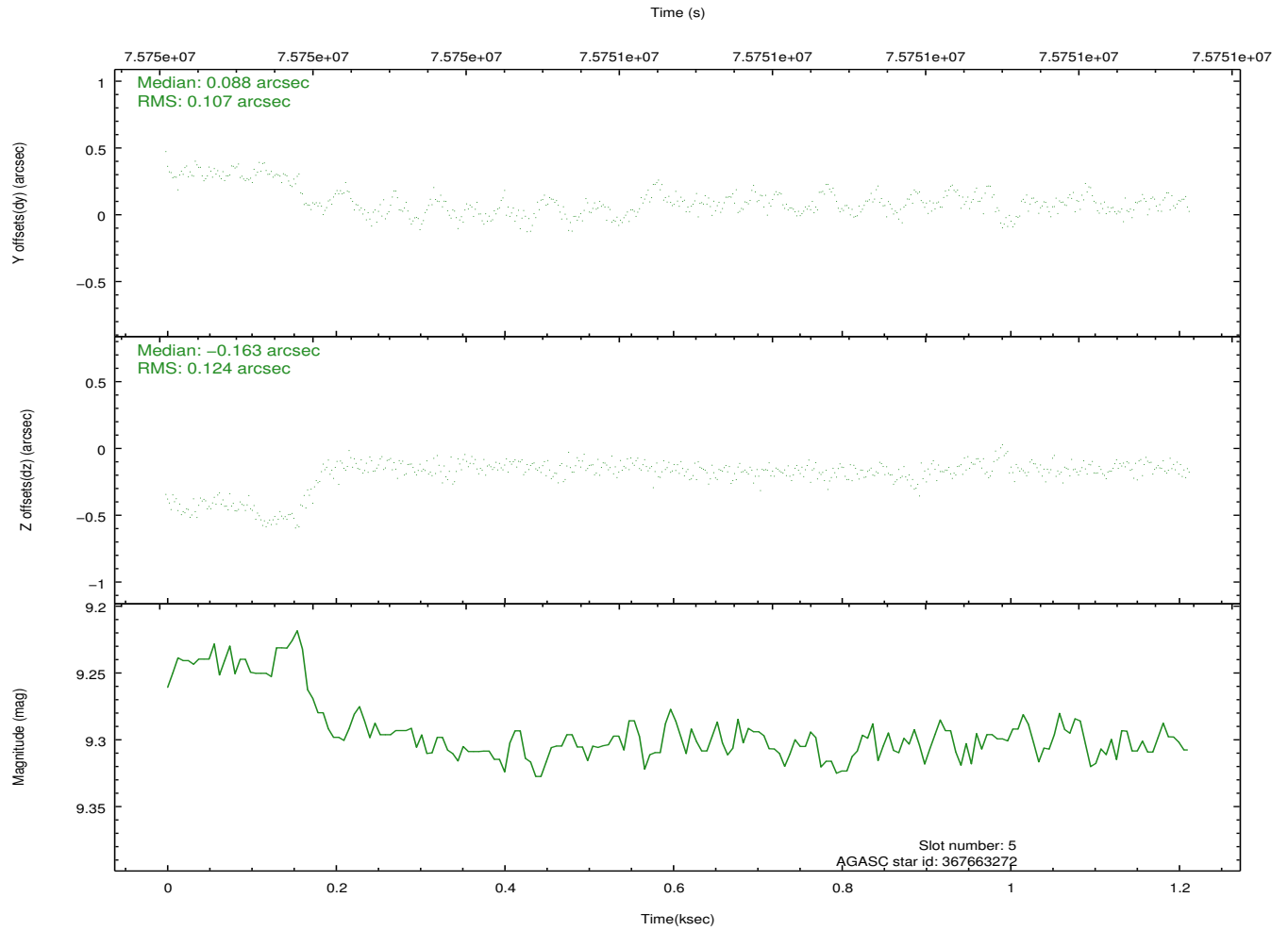
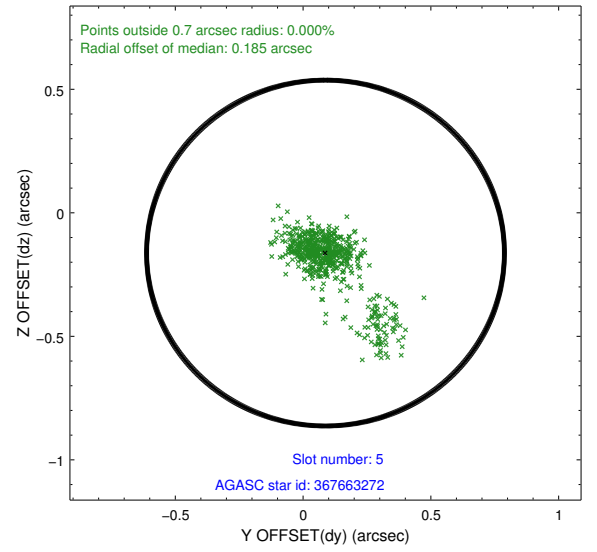
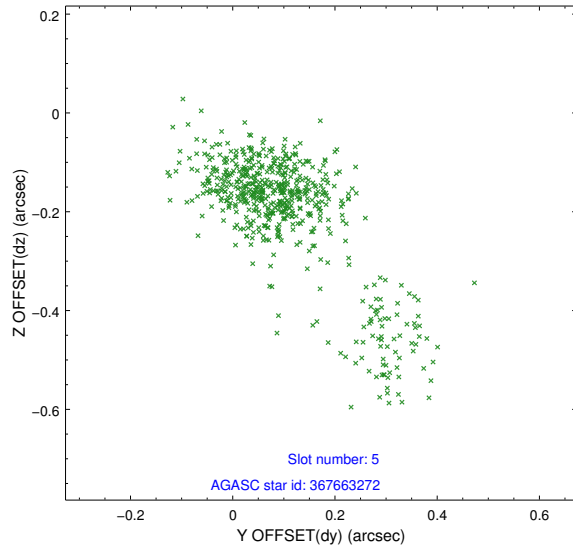
### 2.4.1 Slot 3



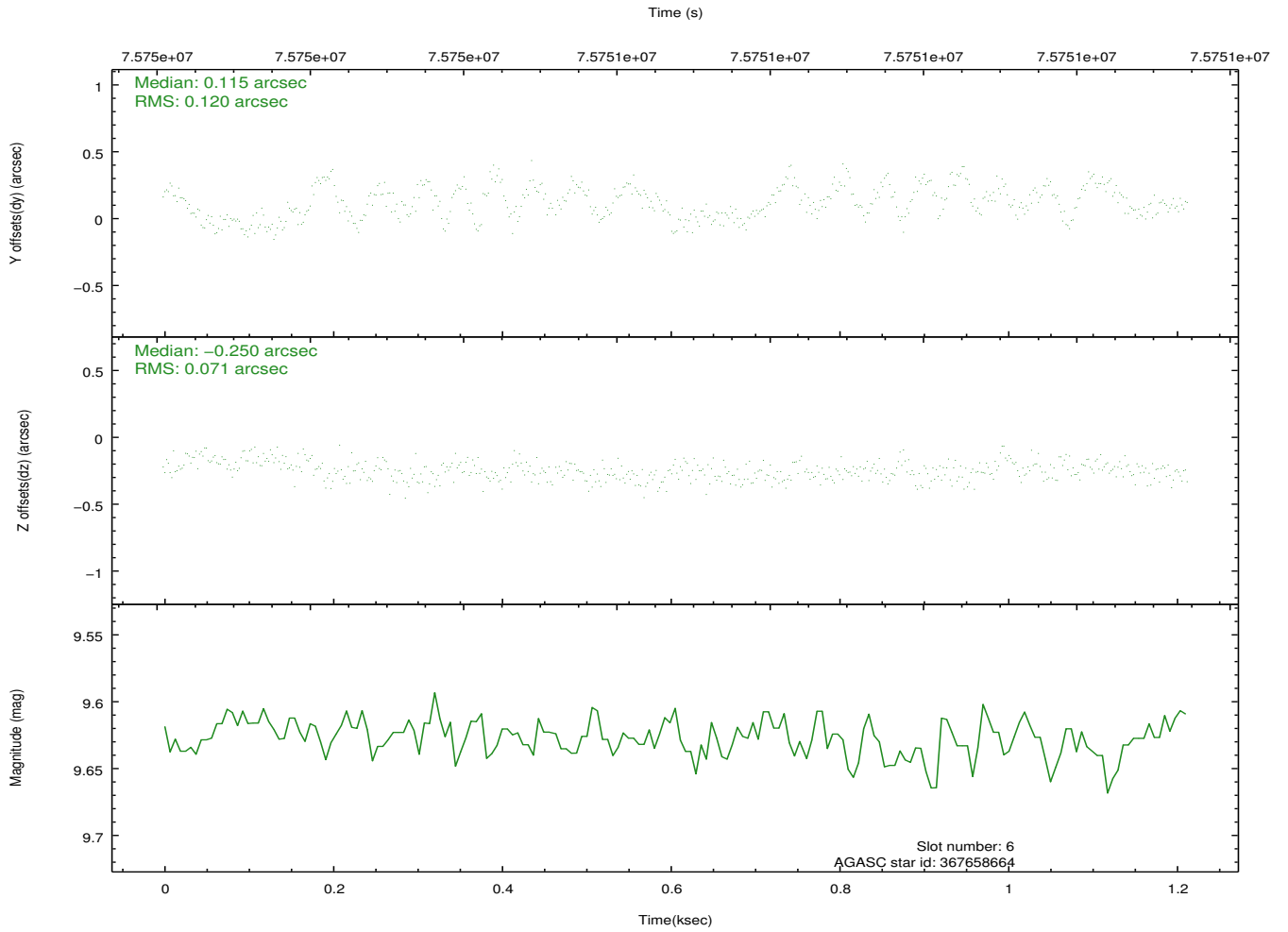
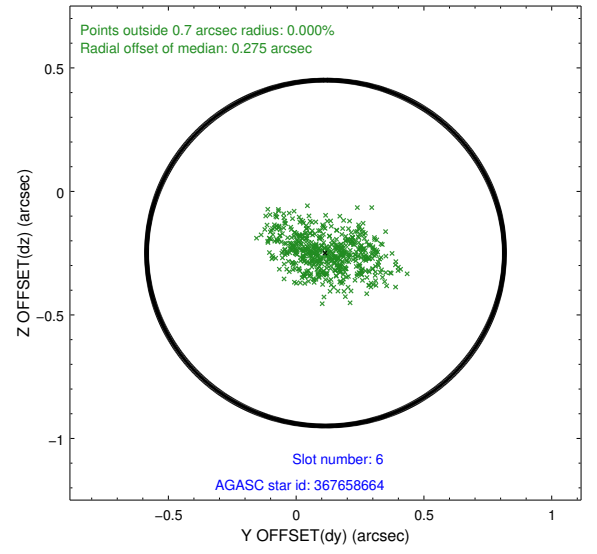
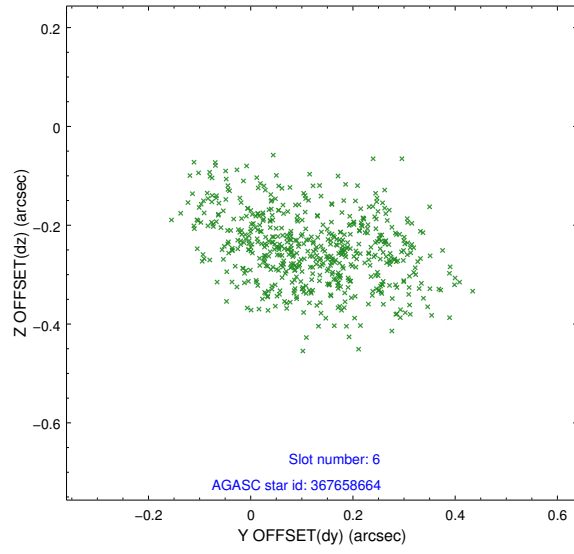
## 2.4.2 Slot 4



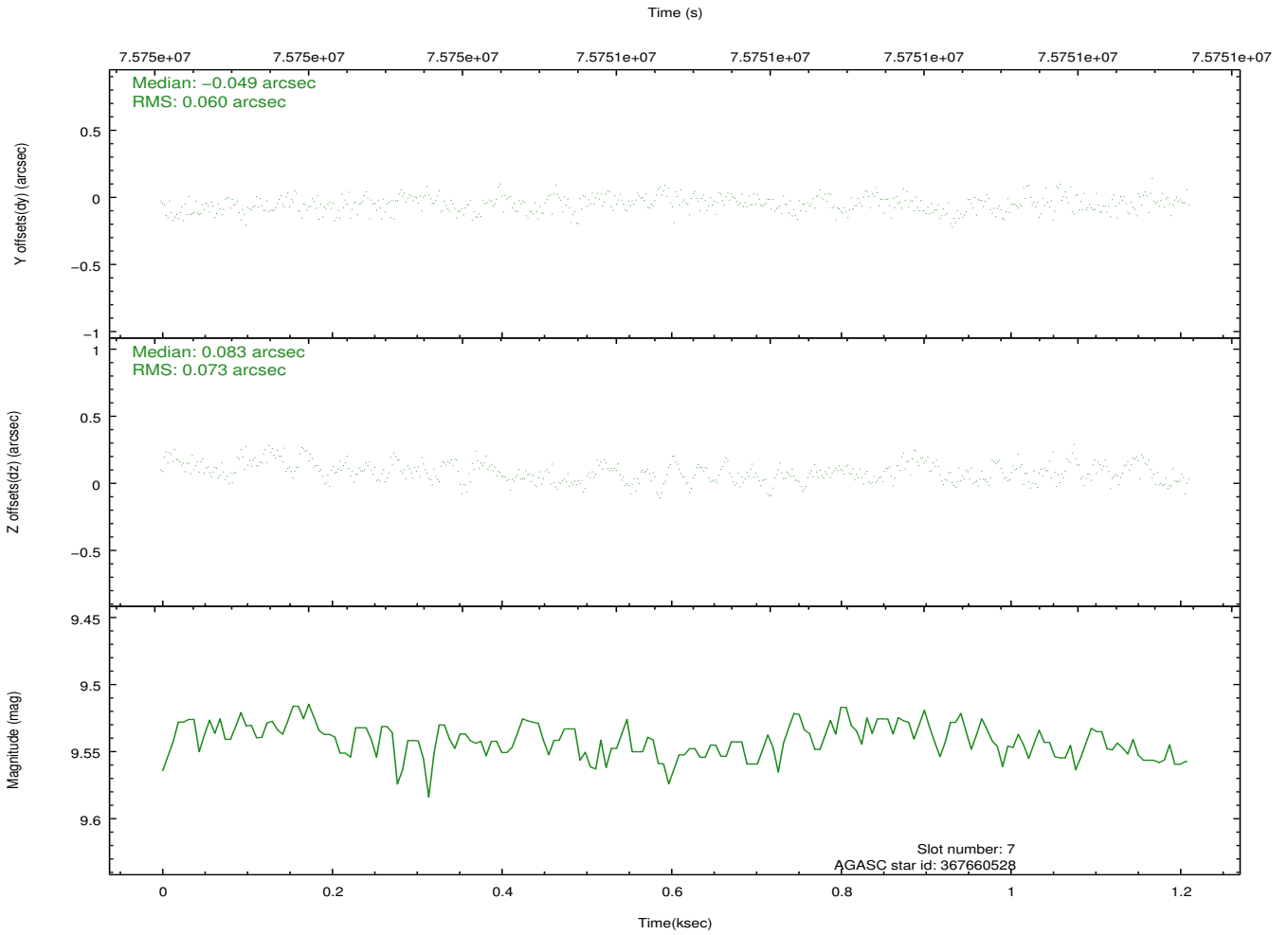
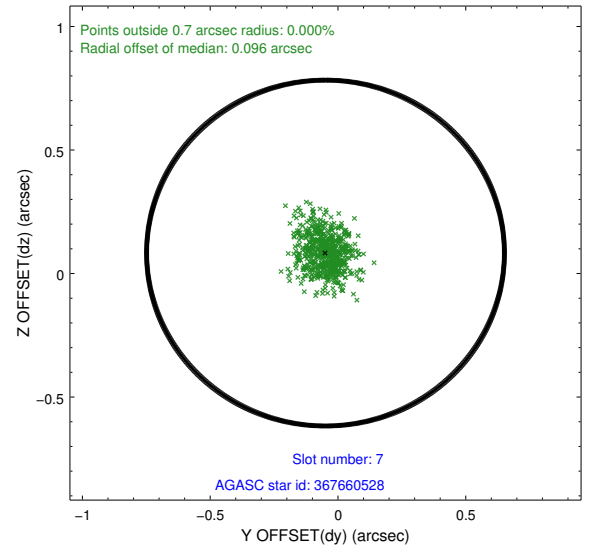
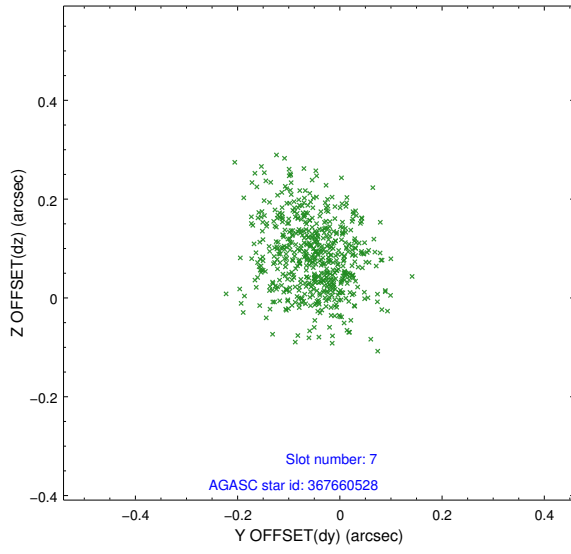
### 2.4.3 Slot 5



## 2.4.4 Slot 6

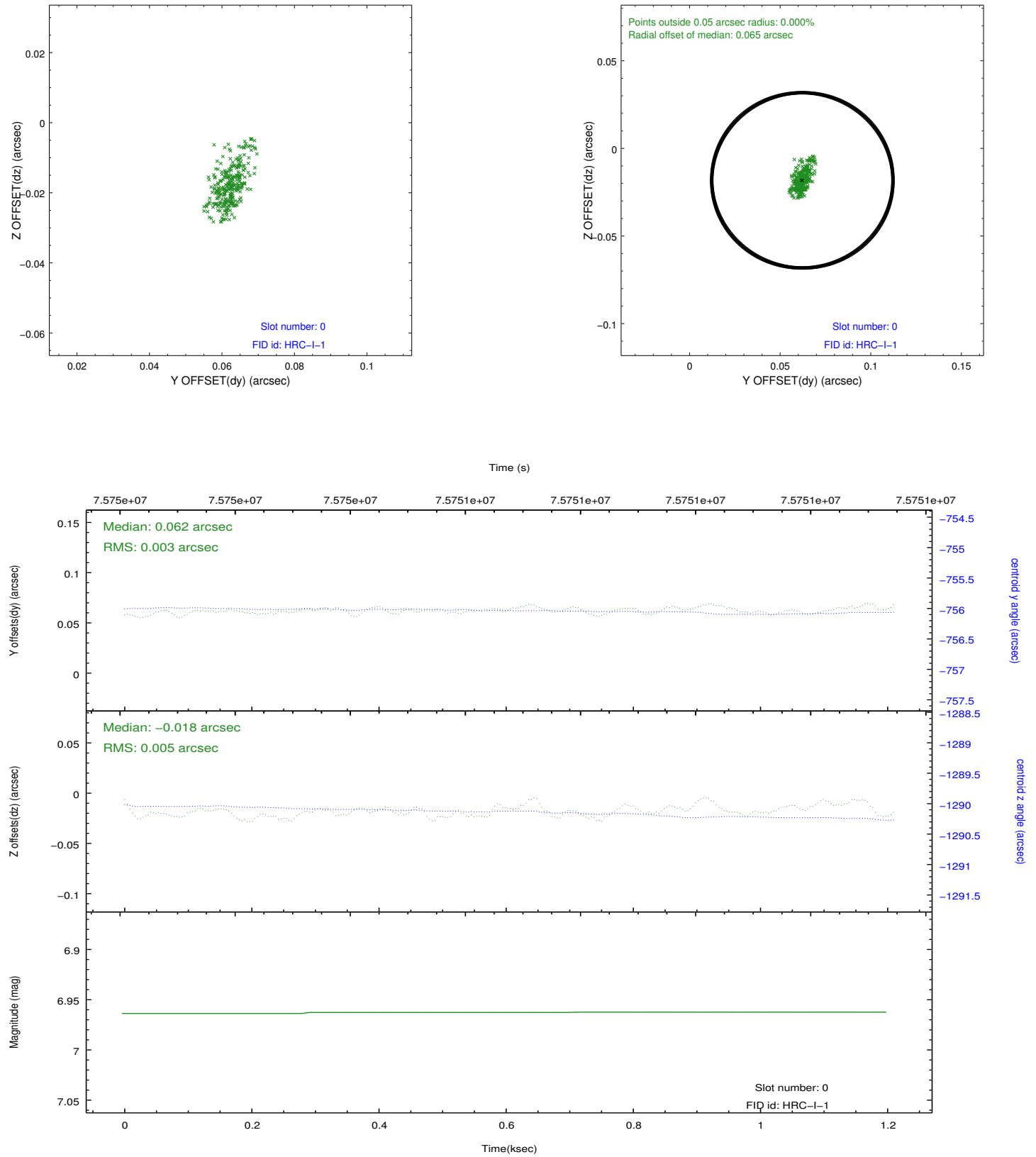


## 2.4.5 Slot 7

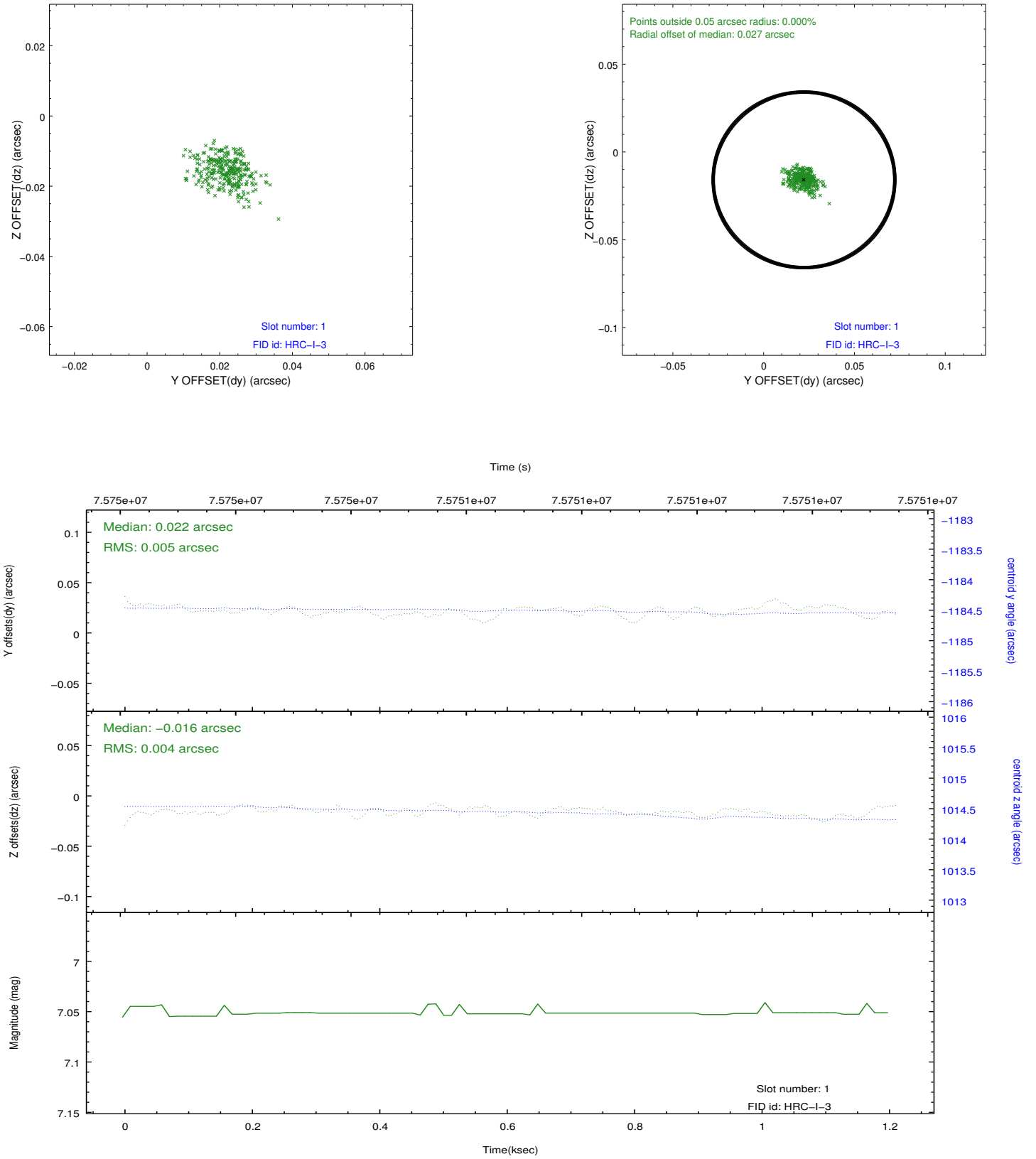


## 2.5 FID Slots

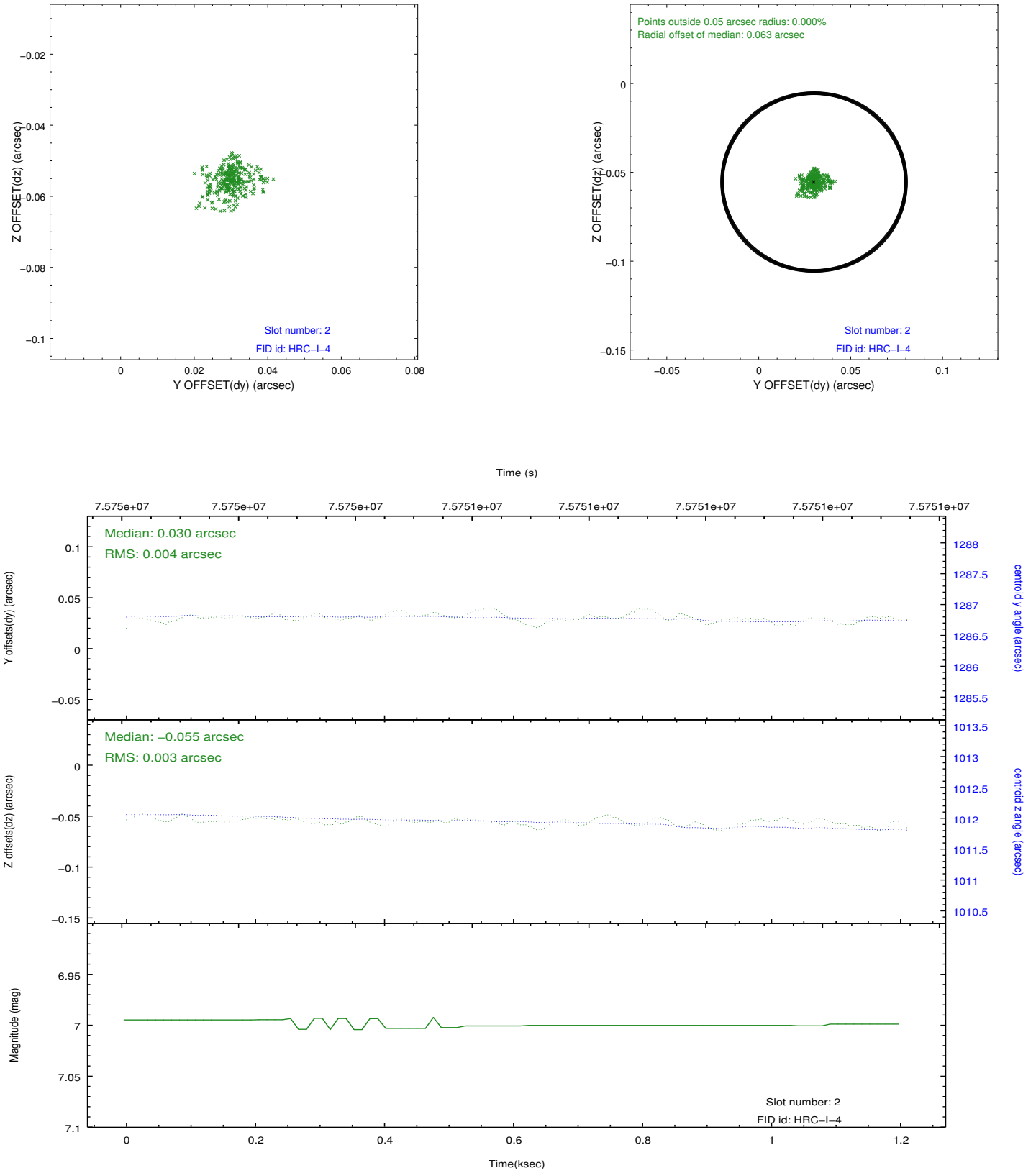
### 2.5.1 Slot 0



## 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)      | 2012.08.30 |
| V&V Edition                | 1          |
| V&V Disposition and Status | OK         |
| V&V Charge Time            | 1.208      |

### A.2 Comments