

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1426 - L2 Version 5

Chandra X-Ray Center

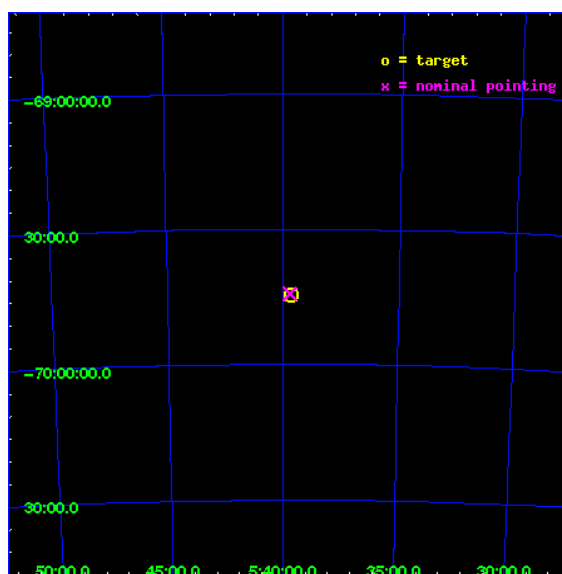
L2 Processing Date : Nov 20 2009

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# 1 Front

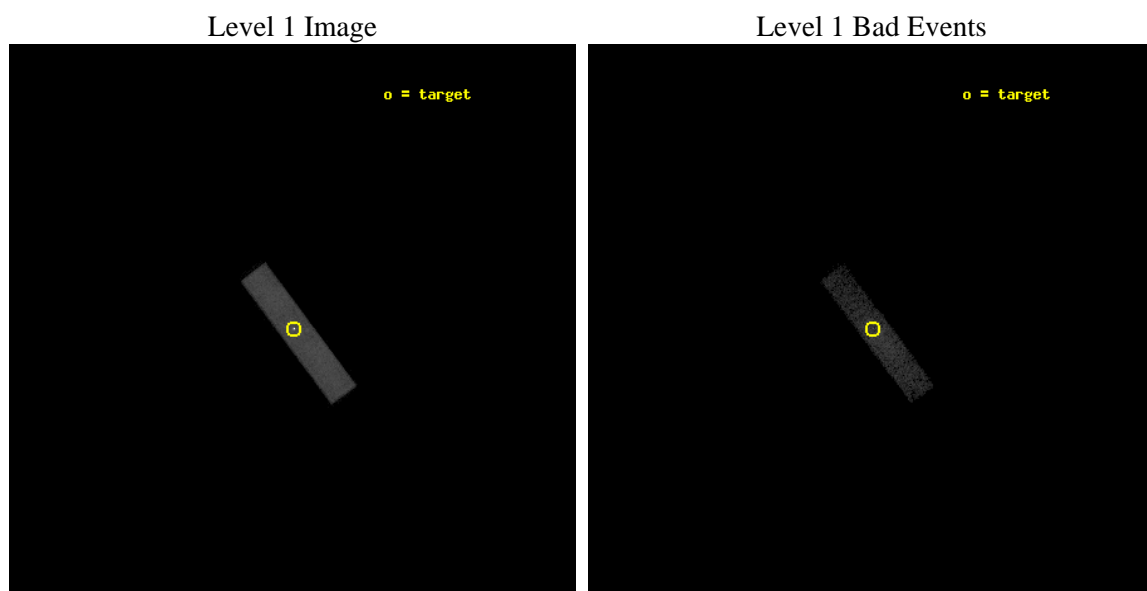
|          |                     |                                 |
|----------|---------------------|---------------------------------|
| seq_num  | 480376              | Sequence number                 |
| obs_id   | 1426                | Observation id                  |
| title    | &#160               | Proposal title                  |
| observer | Dr. CXC Calibration | Principal investigator          |
| object   | LMC X-1             | Source name                     |
| ra_targ  | 84.914583           | Observer's specified target RA  |
| dec_targ | -69.743611          | Observer's specified target Dec |
| ra_nom   | 84.926386837379     | Nominal RA                      |
| dec_nom  | -69.738760339911    | Nominal Dec                     |
| roll_nom | 53.108921371817     | Nominal Roll                    |
| revision | 5                   | Processing version of data      |
| ontime   | 0.0                 | [s]                             |
| livetime | 0.0                 | Ontime multiplied by DTCOR      |
| l2events | 0                   | 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 | Scheduled observation exposure time |
| ascdsver | 8.1.1               | Processing system revision     | ontime         | 0.0         | [s]                                 |
| caldbver | 4.1.4               | &#160                          | l1events       | 115558      | Number of level 1 events            |
| date     | 2009-11-20T14:03:37 | Date and time of file creation |                |             |                                     |
| revision | 5                   | Processing version of data     |                |             |                                     |

### 2.1.3 Events

Level 1 Events

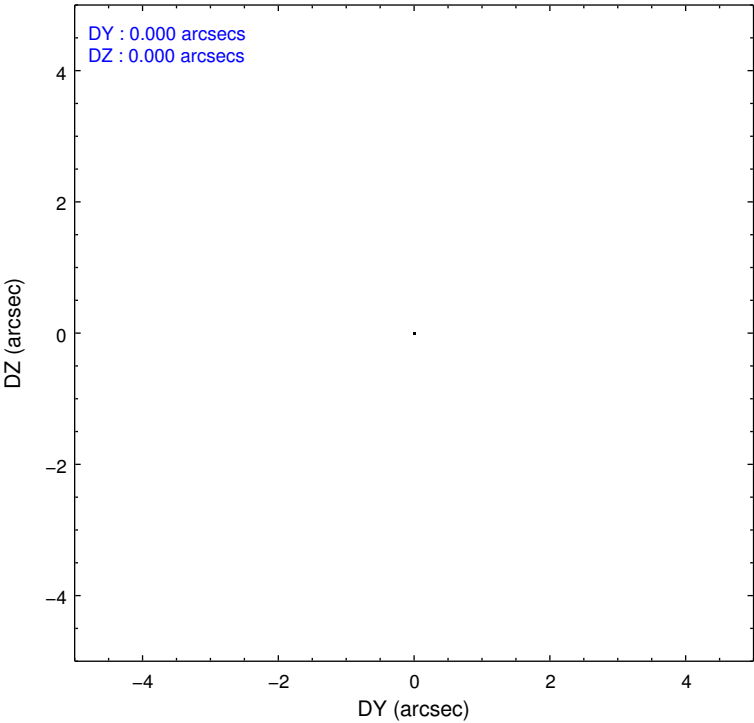
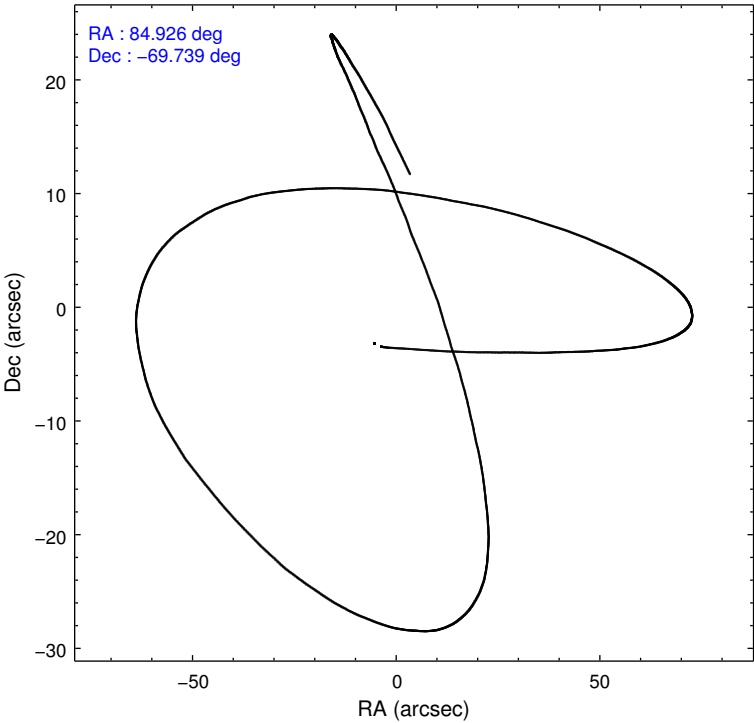
|                 | segment<br>1 | segment<br>2 | segment<br>3 |
|-----------------|--------------|--------------|--------------|
| level 1 events  | 0            | 115558       | 0            |
| rejected events | 0            | 15868        | 0            |
| rejected %      | 0%           | 13%          | 0%           |

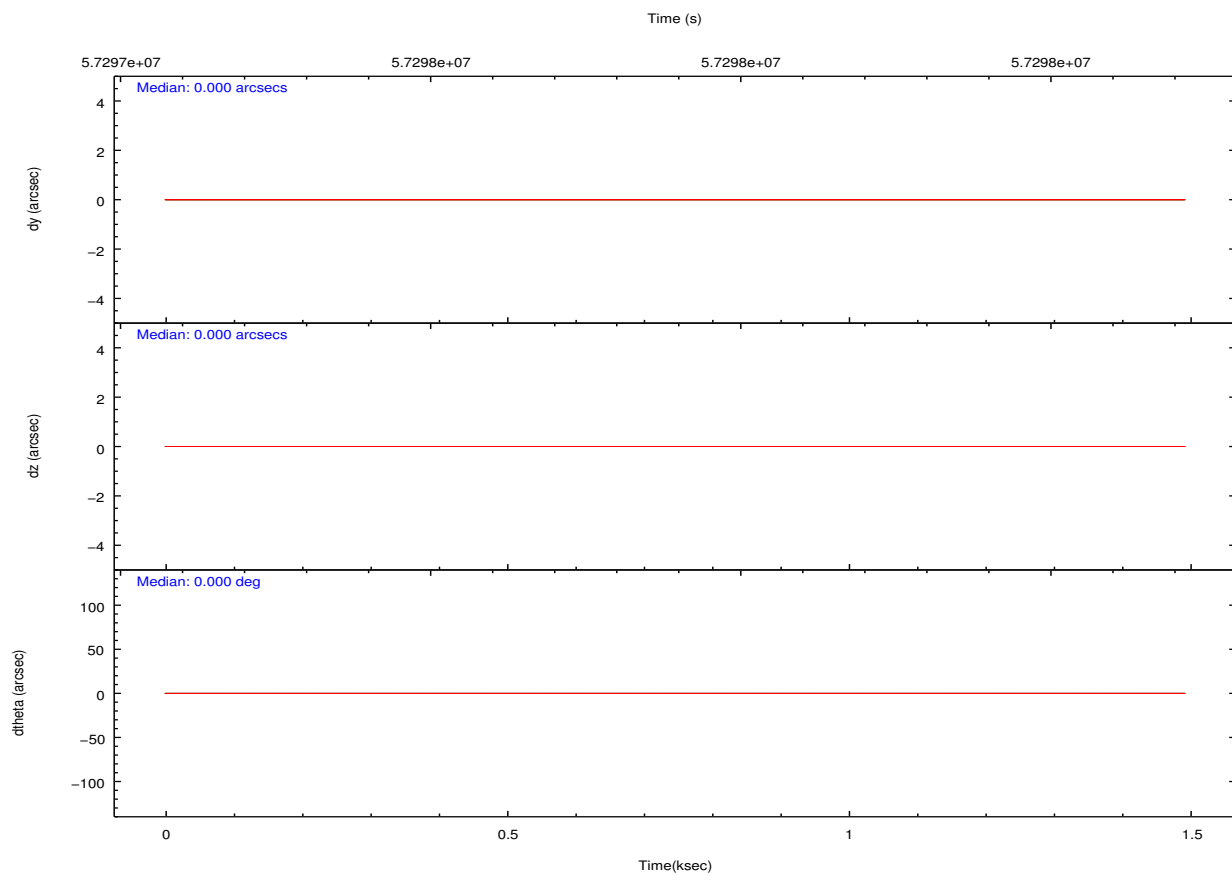
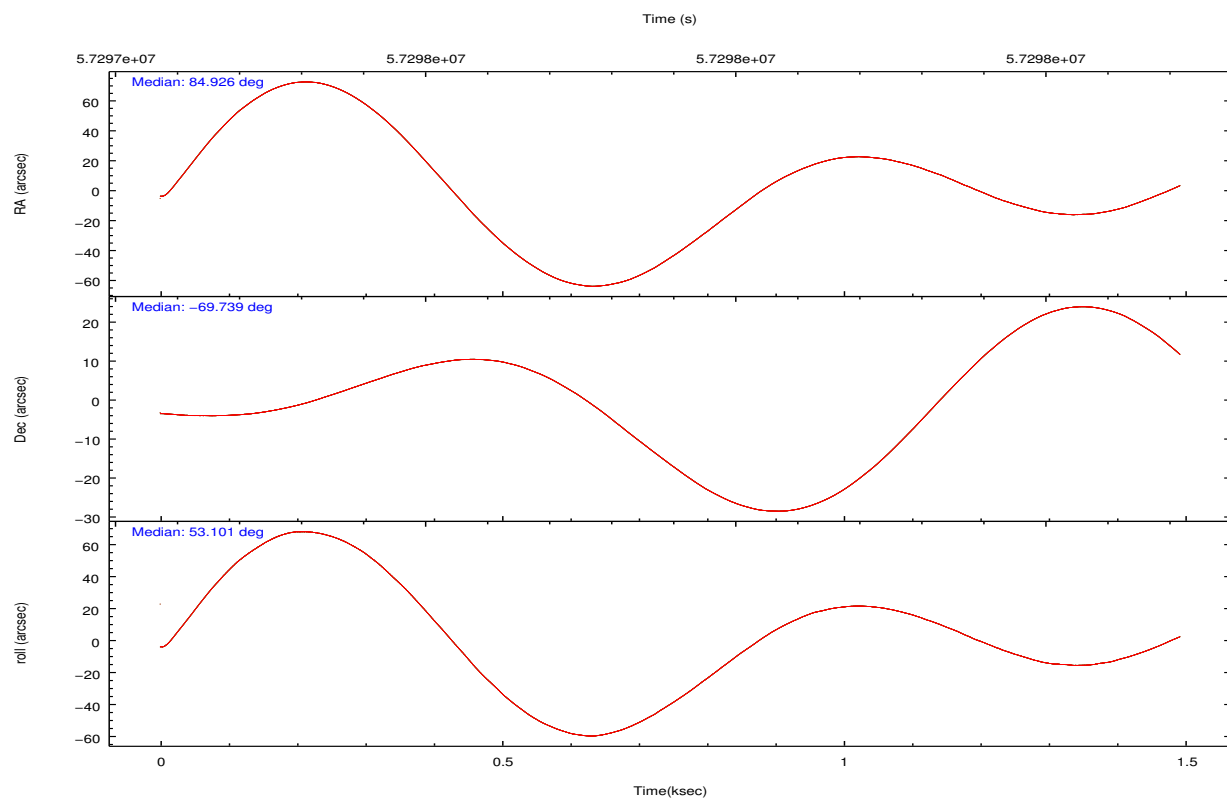
## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual               |
|-----------------------------------|---------------------|----------------------|
| Instrument                        | HRC                 | HRC                  |
| Detector                          | HRC-S               | HRC-S                |
| Grating                           | NONE                | NONE                 |
| Data mode                         | OBSERVING           | OBSERVING            |
| Observation mode                  | POINTING            | POINTING             |
| Pointing RA                       | 84.917151           | 84.92638683737883    |
| Pointing Dec                      | -69.768488          | -69.73876033991077   |
| Pointing Roll                     | 53.032913           | 53.10892137181729    |
| SIM focus pos (mm)                | -1.698817           | -1.761728684953536   |
| SIM defocus (mm)                  | -0.1654802289566712 | -0.228392045549239   |
| SIM translation stage pos (mm)    | 250.455976          | 250.466033080201     |
| SIM translation stage offset (mm) | 0                   | -0.01005468664627074 |
| Observation start time            | 57297638.184000     | 57296972.939065      |
| Observation start date            | 1999-10-26T03:59:34 | 1999-10-26T03:49:32  |
| Observation end time              | 57298638.184000     | 57299345.301651      |
| Observation end date              | 1999-10-26T04:16:14 | 1999-10-26T04:29:05  |

| Parameter                    | Planned   | Actual  |
|------------------------------|-----------|---------|
| Obspar format version number | 6         | 6       |
| Obspar file type             | PREDICTED | ACTUAL  |
| Obspar update status         | NONE      | UPDATED |

2.3 Aspect





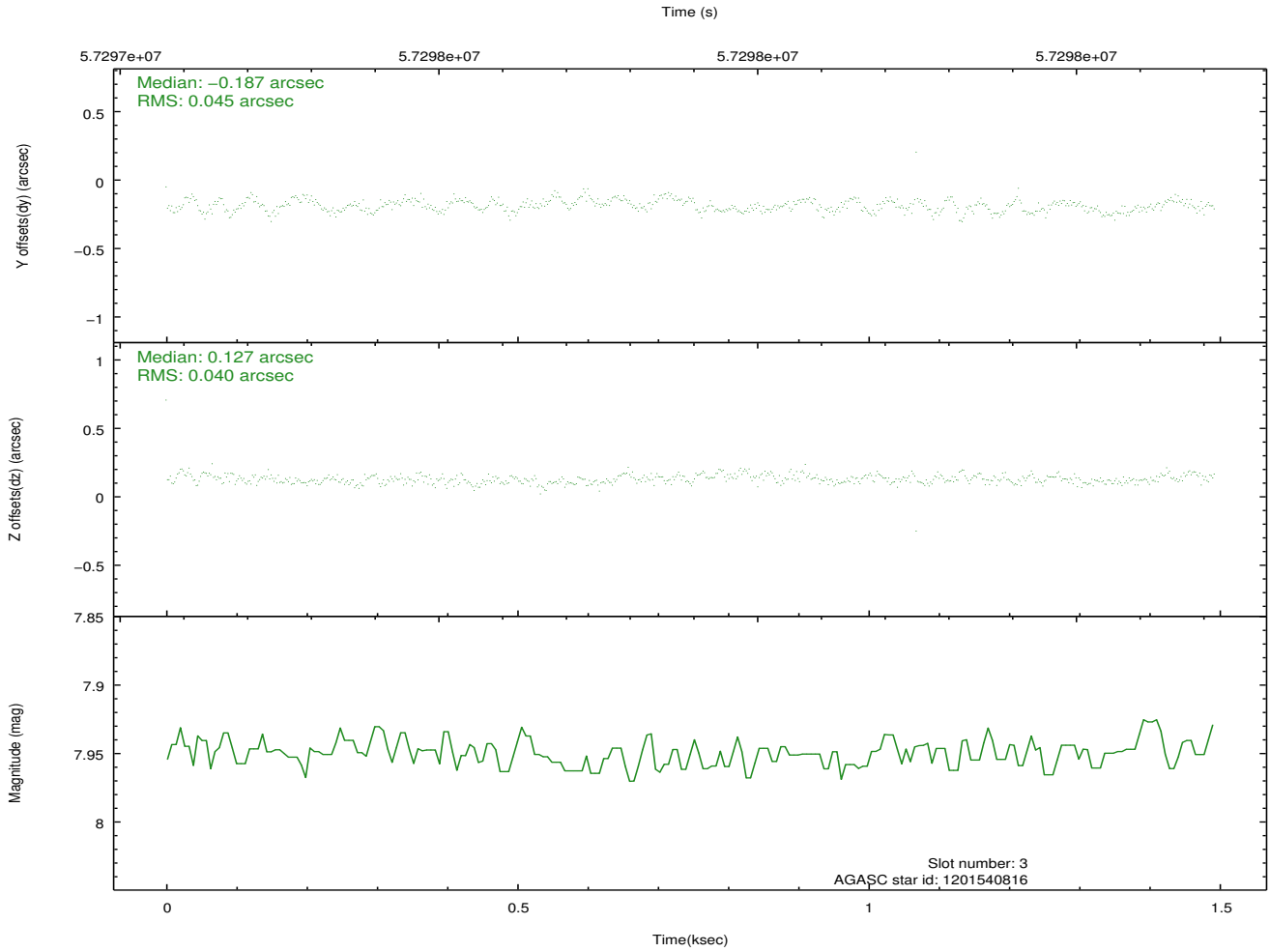
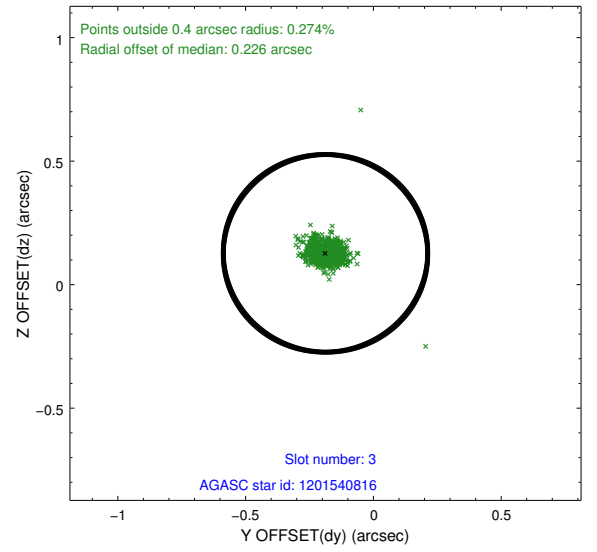
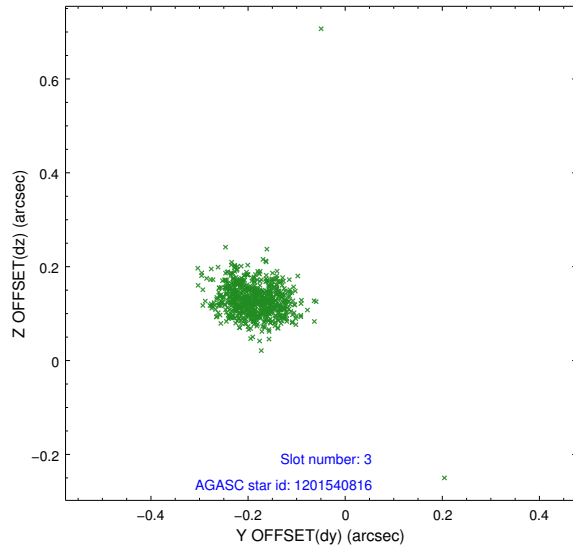
Slot Statistics

| slot | status | id         | mag  | n_pts | med_dy | med_dz | drl   | dr2   | ra        | dec        | mean_y   | mean_z   |
|------|--------|------------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0    | UNUSED |            | 0.00 | 0     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000000  | 0.000000   | 0.00     | 0.00     |
| 1    | UNUSED |            | 0.00 | 0     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000000  | 0.000000   | 0.00     | 0.00     |
| 2    | UNUSED |            | 0.00 | 0     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000000  | 0.000000   | 0.00     | 0.00     |
| 3    | GUIDE  | 1201540816 | 7.95 | 729   | -0.187 | 0.127  | 0.057 | 0.089 | 86.998494 | -69.749817 | 1573.94  | -2056.98 |
| 4    | GUIDE  | 1201540944 | 8.22 | 729   | 0.062  | -0.028 | 0.087 | 0.145 | 87.496877 | -69.685010 | 2122.87  | -2437.68 |
| 5    | GUIDE  | 1201407840 | 7.96 | 729   | -0.012 | -0.087 | 0.048 | 0.077 | 83.696303 | -70.172201 | -2070.56 | 304.94   |
| 6    | GUIDE  | 1201410616 | 9.37 | 728   | 0.085  | -0.084 | 0.135 | 0.219 | 82.516808 | -69.784406 | -1894.90 | 2316.14  |
| 7    | GUIDE  | 1201406992 | 9.28 | 726   | 0.055  | 0.067  | 0.086 | 0.147 | 83.682859 | -69.471866 | -103.01  | 1881.34  |

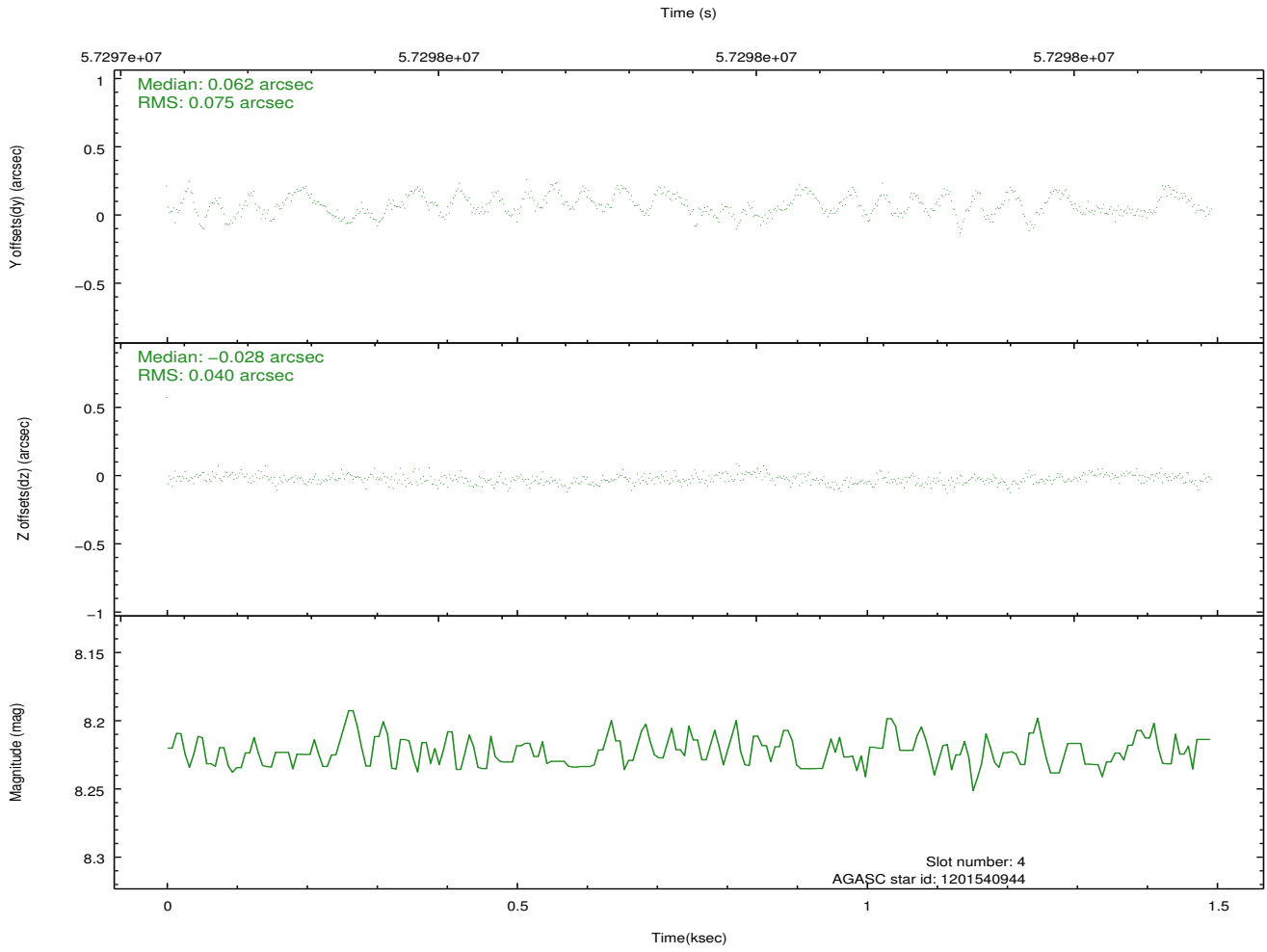
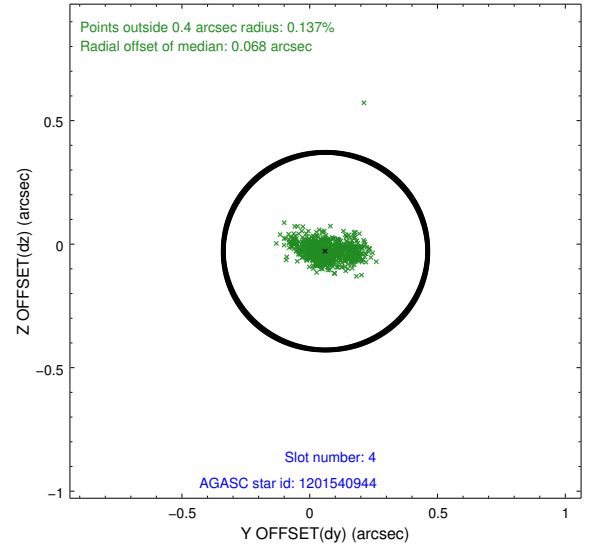
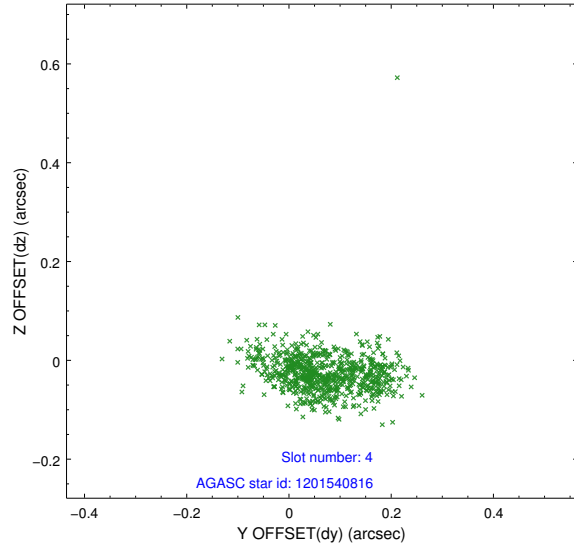


## 2.4 Star Slots

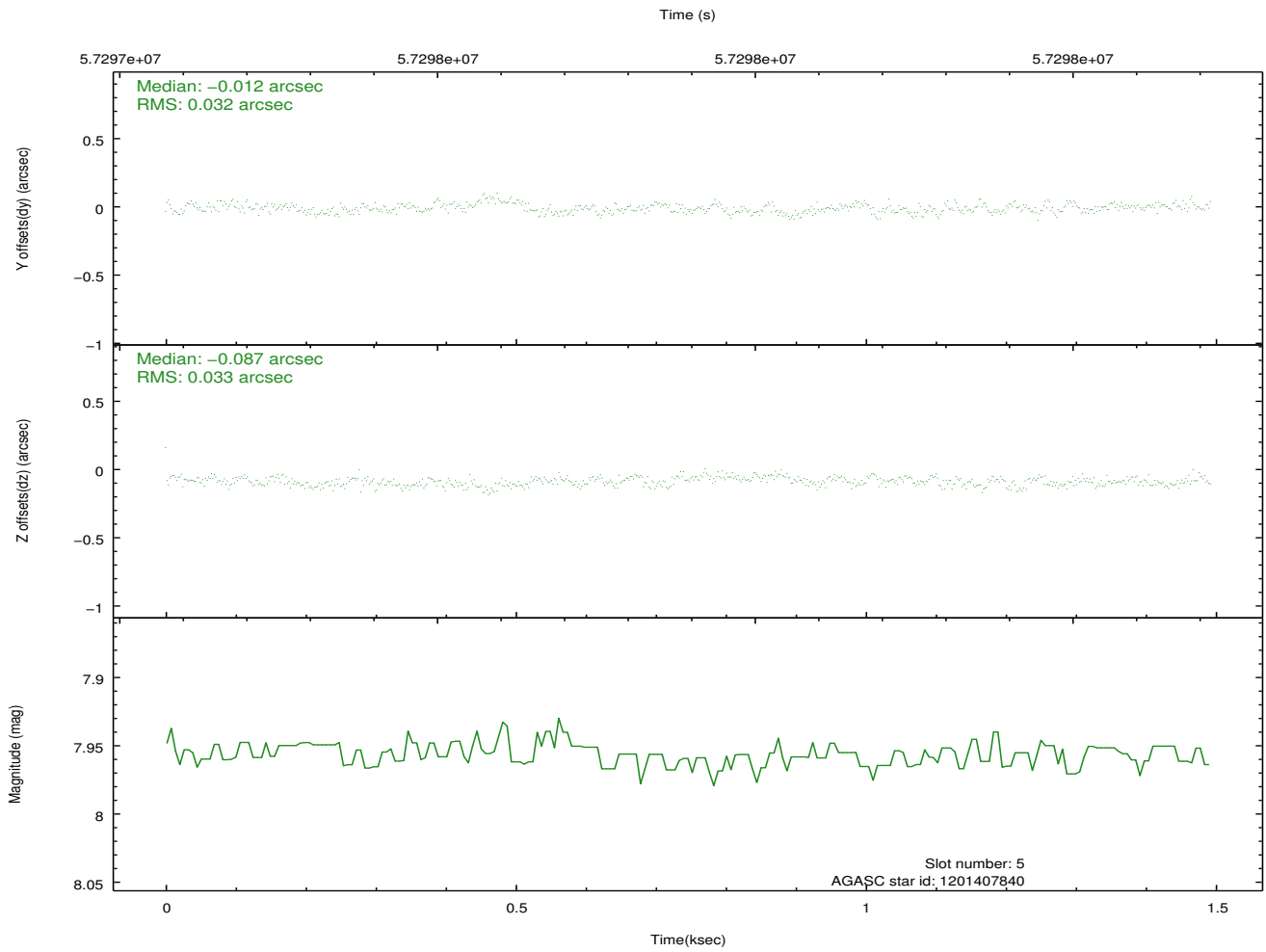
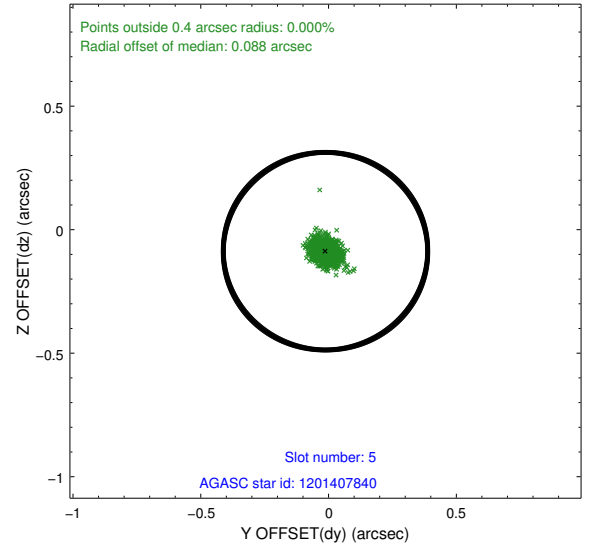
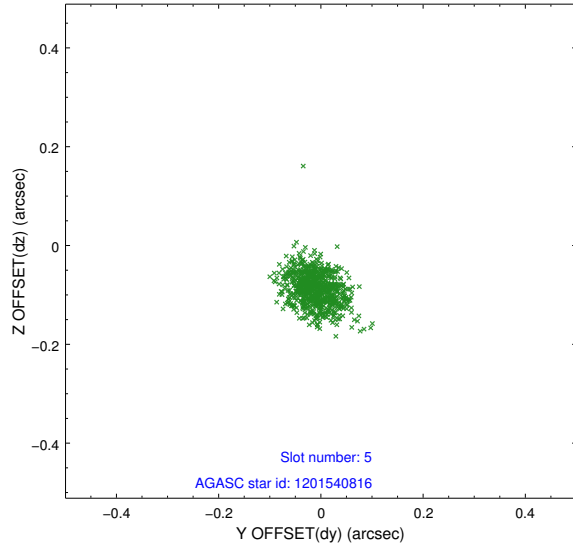
### 2.4.1 Slot 3



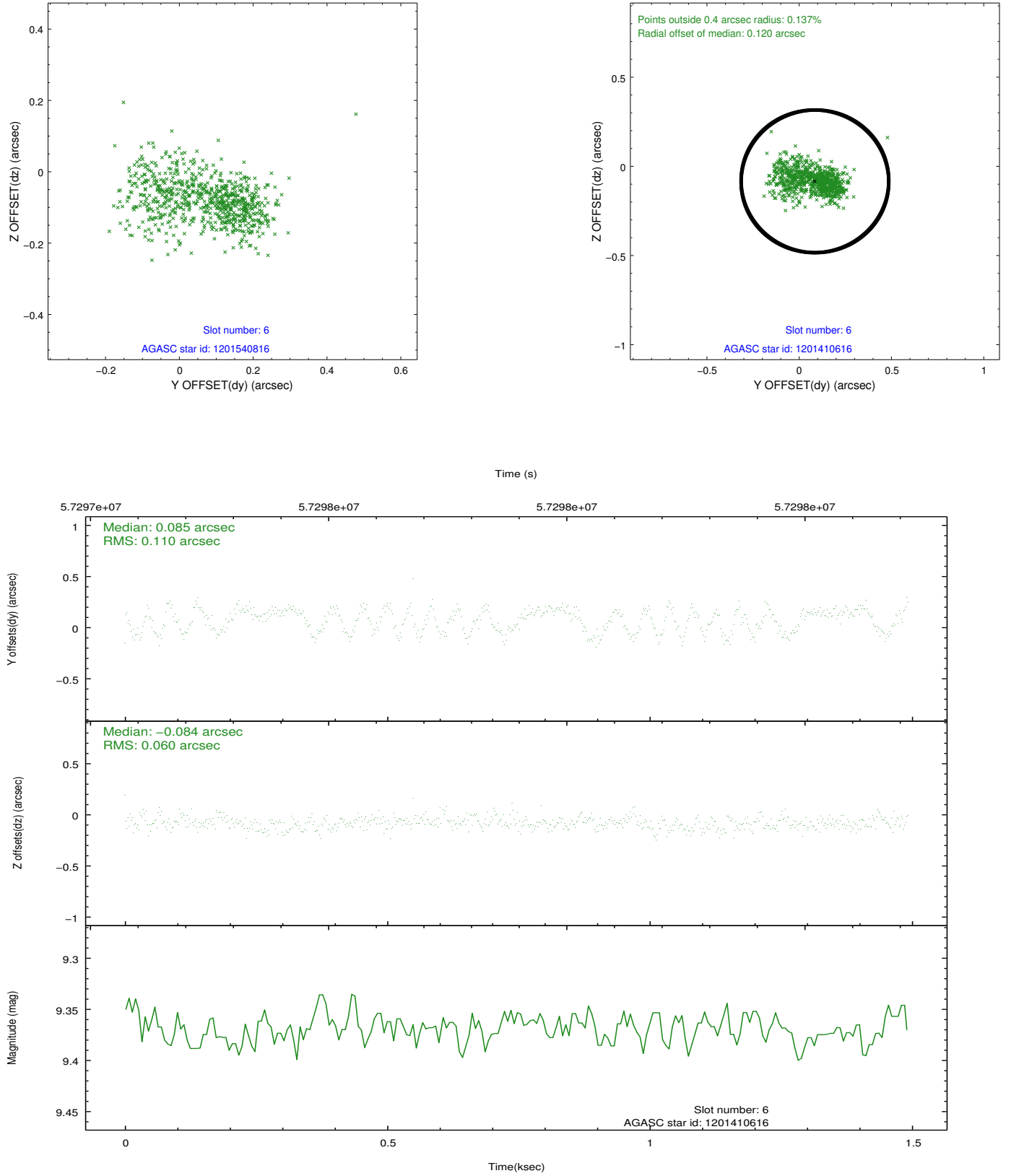
## 2.4.2 Slot 4



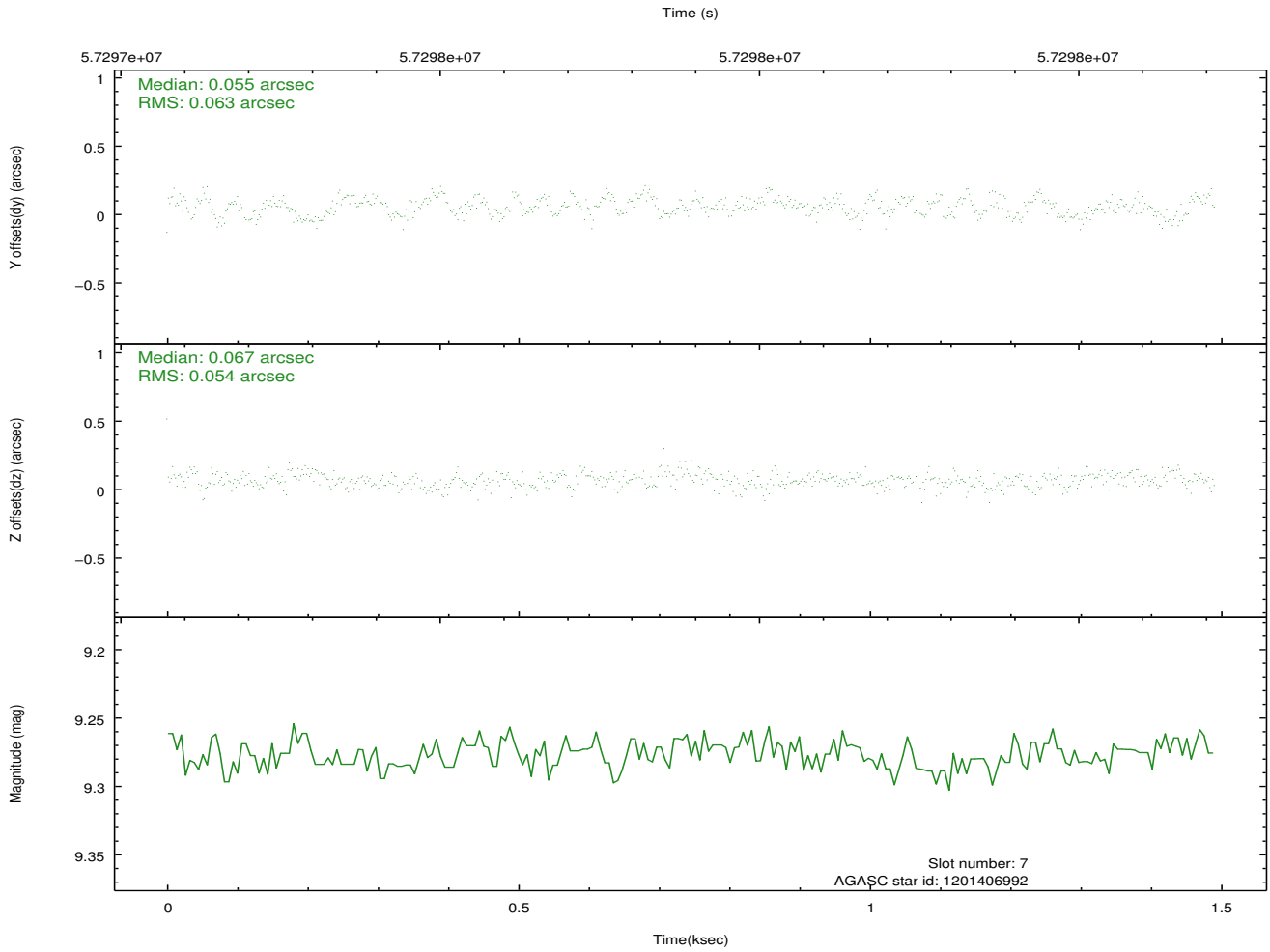
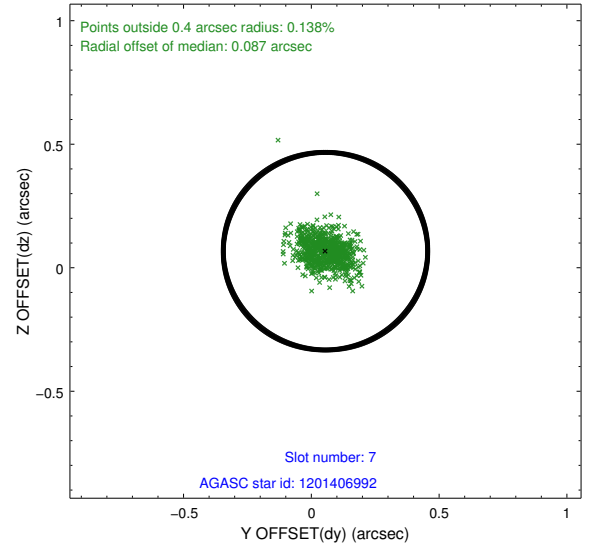
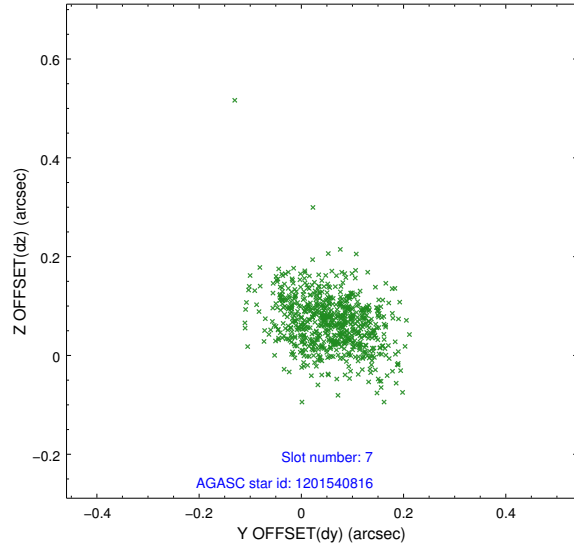
### 2.4.3 Slot 5



## 2.4.4 Slot 6



## 2.4.5 Slot 7



## 2.5 FID Slots

### 3 Point Sources

# A Summary

## A.1 Status

|                            |             |
|----------------------------|-------------|
| V&V Scientist              | Joy Nichols |
| V&V Date (YYYY-MM-DD)      | 2009.12.01  |
| V&V Edition                | 1           |
| V&V Disposition and Status | OK          |
| V&V Charge Time            | 1.295       |

## A.2 Comments

No fid lights were used during this observation, so there is no Good Time Interval. As a result, there are no Level 2 events. However, the Level 1 event energy data are good. The aspect solution is compromised. Charge time for this ObsId remains at original value of 1.295 ks, although with the current processing the charge time would have been 0 ksec. The Charge Time is based on the Level 1 event data.