

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1814 - L2 Version 4
Chandra X-Ray Center

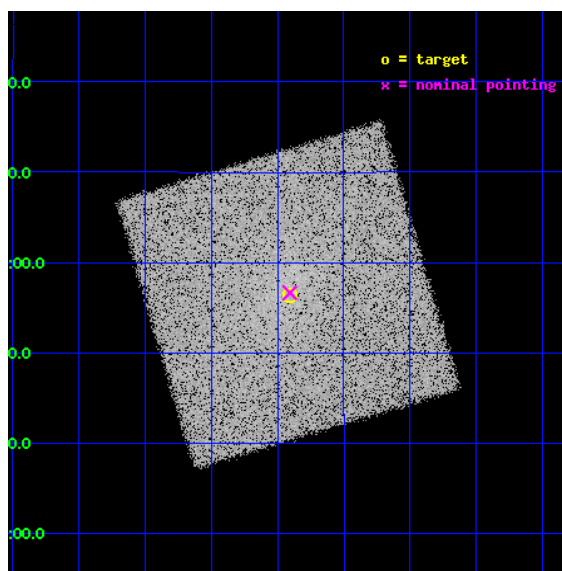
L2 Processing Date : Sep 20 2012

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1 Front

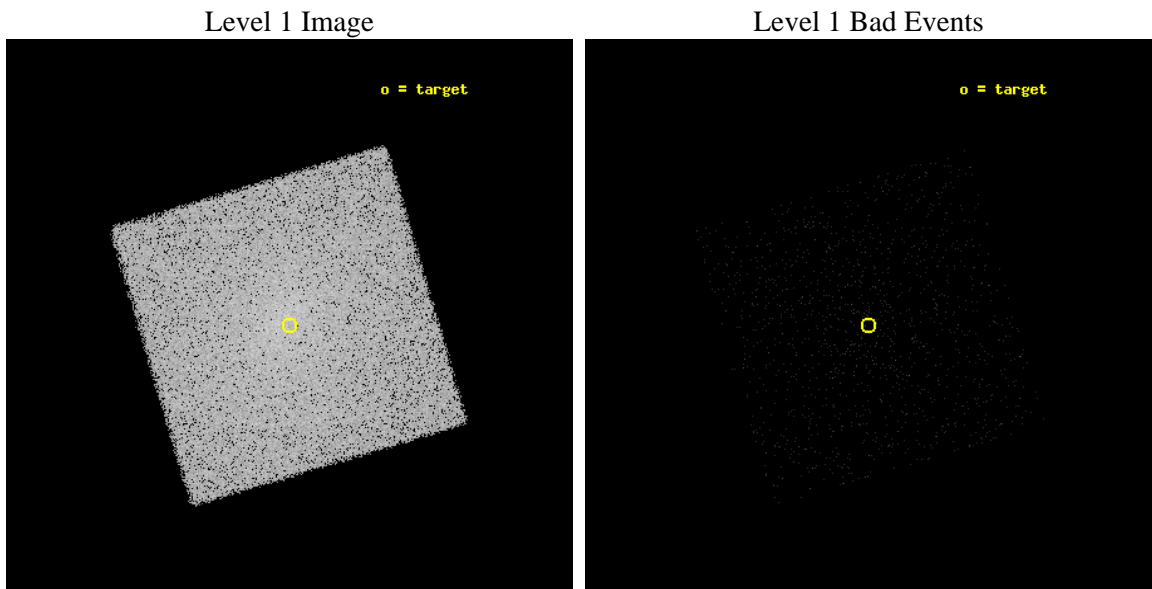
| | | |
|----------|--|--|
| seq_num | 100009 | Sequence number |
| obs_id | 1814 | Observation id |
| title | SOLVING THE PUZZLE OF COMETARY X-RAY ORIGIN: OBSERVATIONS OF COMET 10P/TEMPEL 2 | Proposal title |
| observer | DR W. THOMAS VESTRAND | Principal investigator |
| object | LINEAR 2001 A2 | Source name |
| ra_targ | 348.852297 | Observer's specified target RA [deg] |
| dec_targ | 7.939782 | Observer's specified target Dec [deg] |
| ra_nom | 348.85169608309 | Nominal RA [deg] |
| dec_nom | 7.9440821668799 | Nominal Dec [deg] |
| roll_nom | 118.46323626719 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 2043.0813299119 | [s] |
| livetime | 2028.6535497539 | Ontime multiplied by DTCOR |
| l2events | 102121 | 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 | 2150.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 2043.0813299119 | [s] |
| caldbver | 4.5.1.1 | | l1events | 172628 | Number of level 1 events |
| date | 2012-09-20T12:58:38 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

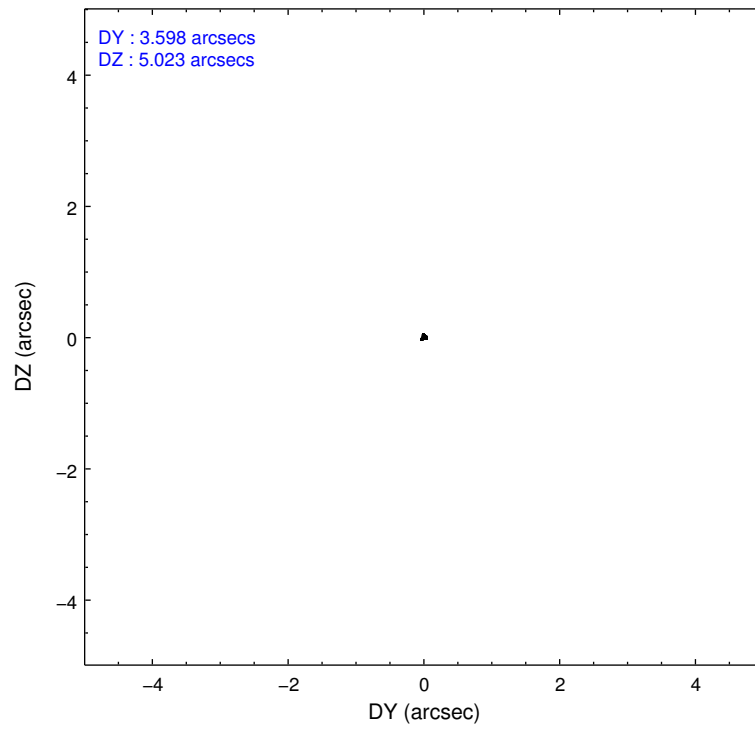
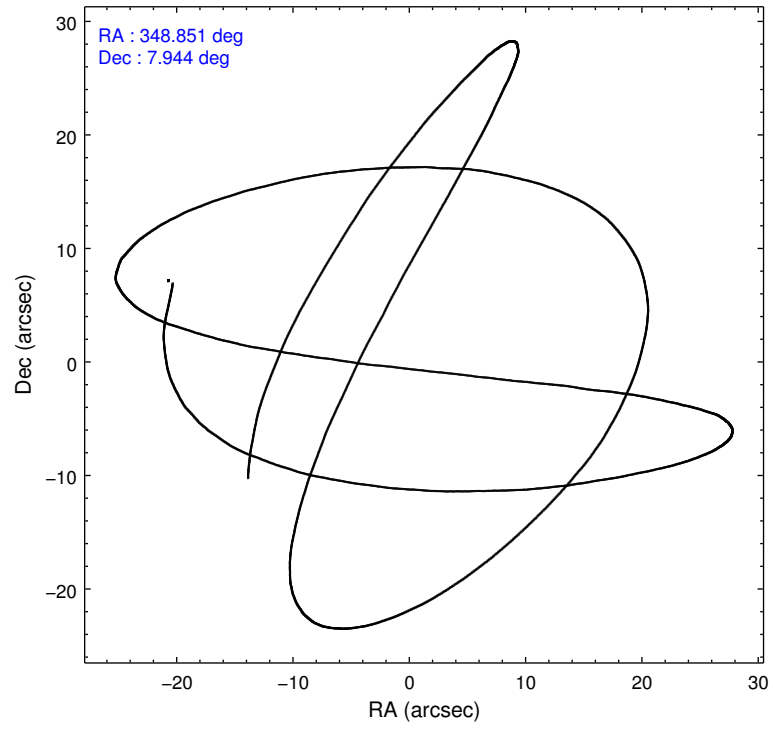
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 172628 |
| rejected events | 35477 |
| rejected % | 20% |

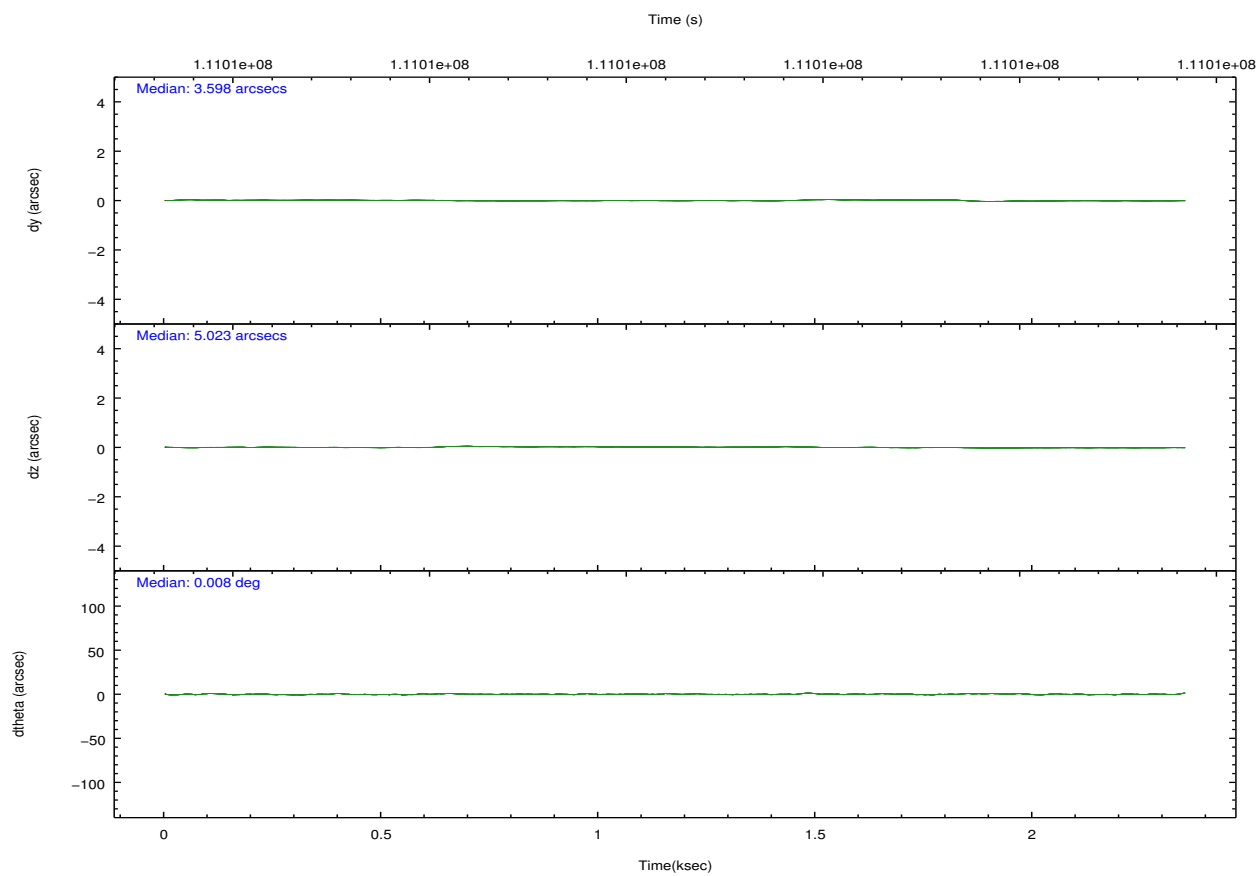
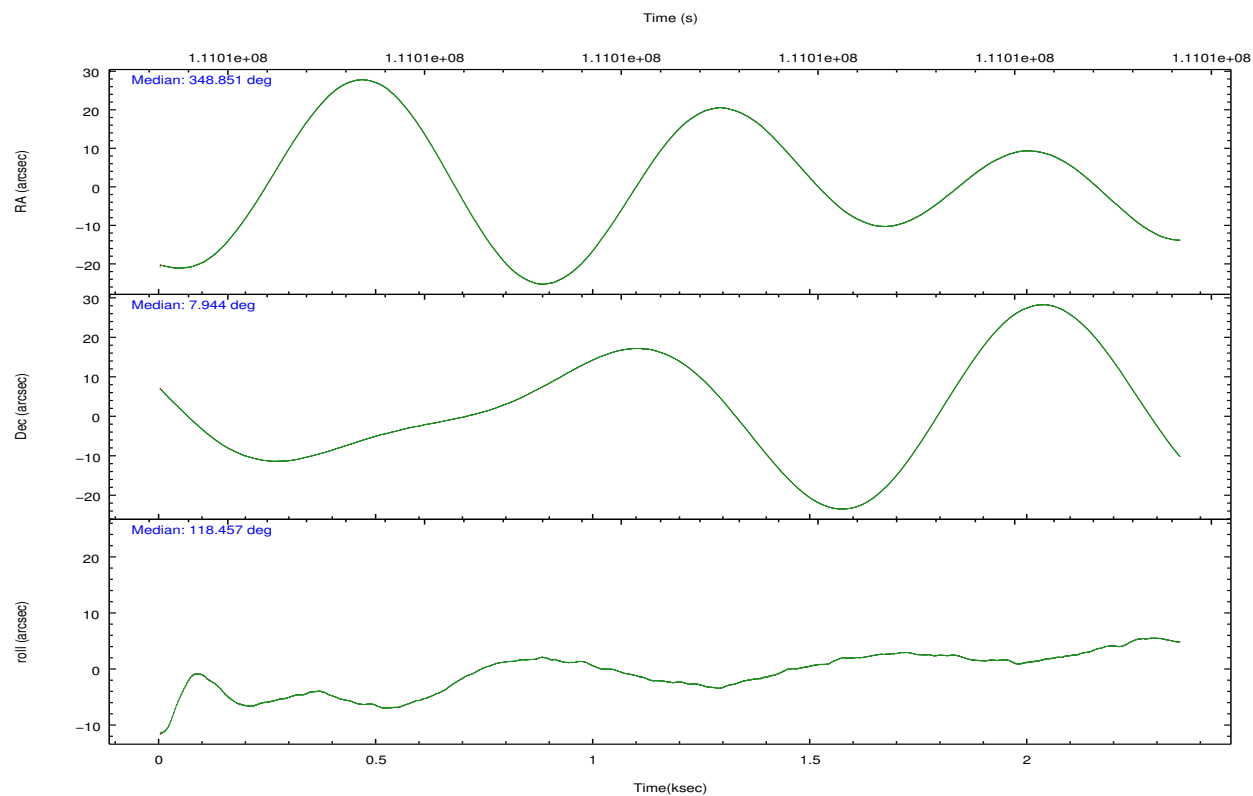
2.2 Compared Parameters

| 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 | 348.875525 | 348.8516960830939 |
| [deg] Pointing Dec | 7.930294 | 7.944082166879917 |
| [deg] Pointing Roll | 118.555435 | 118.4632362671947 |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 |
| [mm] SIM defocus | 0 | 0.001426264420575141 |
| [mm] SIM translation stage pos | 126.985494 | 126.9854943052878 |
| [mm] SIM translation stage offset | 0 | -5.413686238853188e-06 |
| [s] Observation start time (MET) | 111006652.184000 | 111006240.08299 |
| Observation start date | 2001-07-08T19:09:48 | 2001-07-08T19:04:00 |
| [s] Observation end time (MET) | 111008802.184000 | 111008936.3456 |
| Observation end date | 2001-07-08T19:45:38 | 2001-07-08T19:48:56 |

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

2.3 Aspect



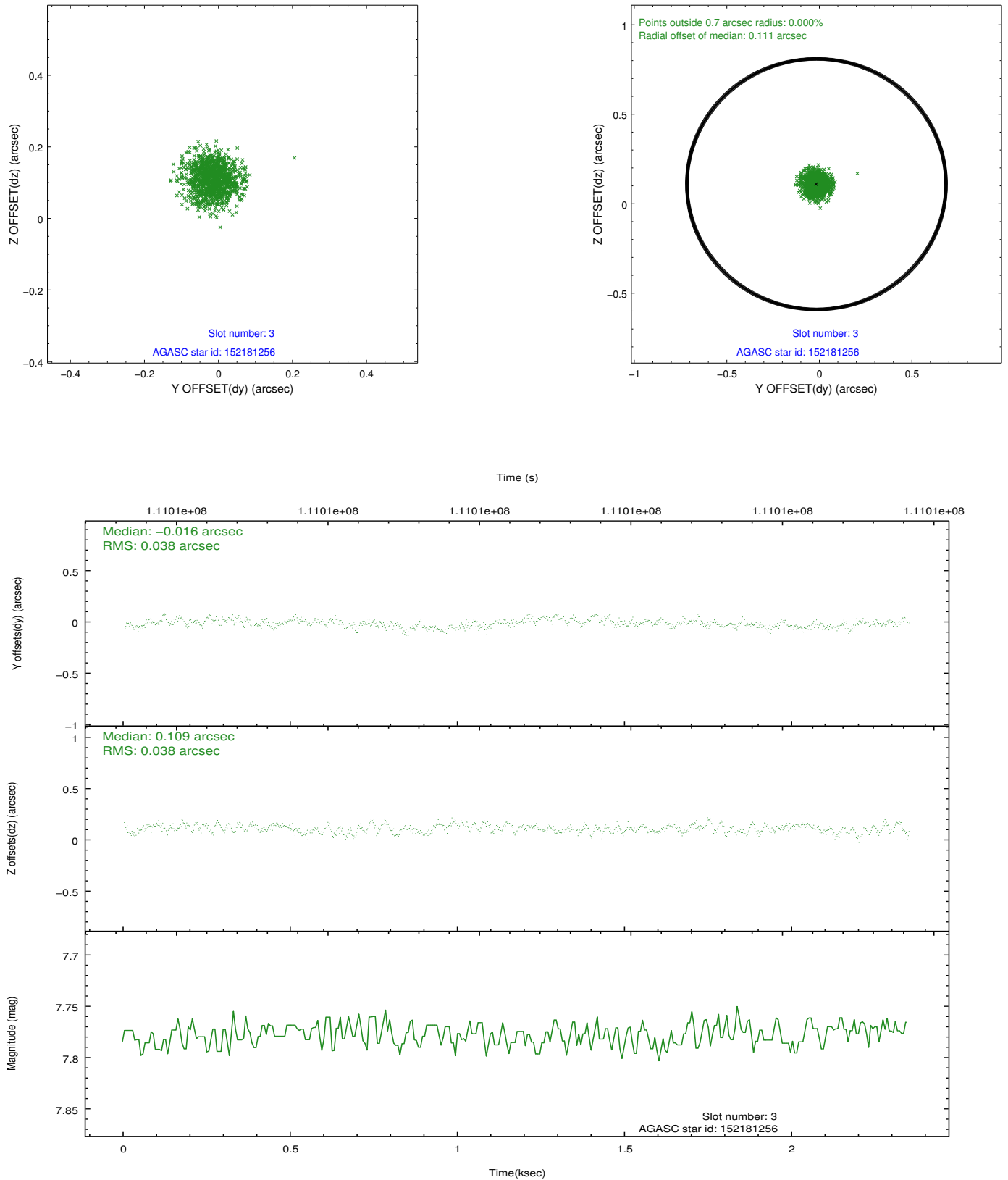


Slot Statistics

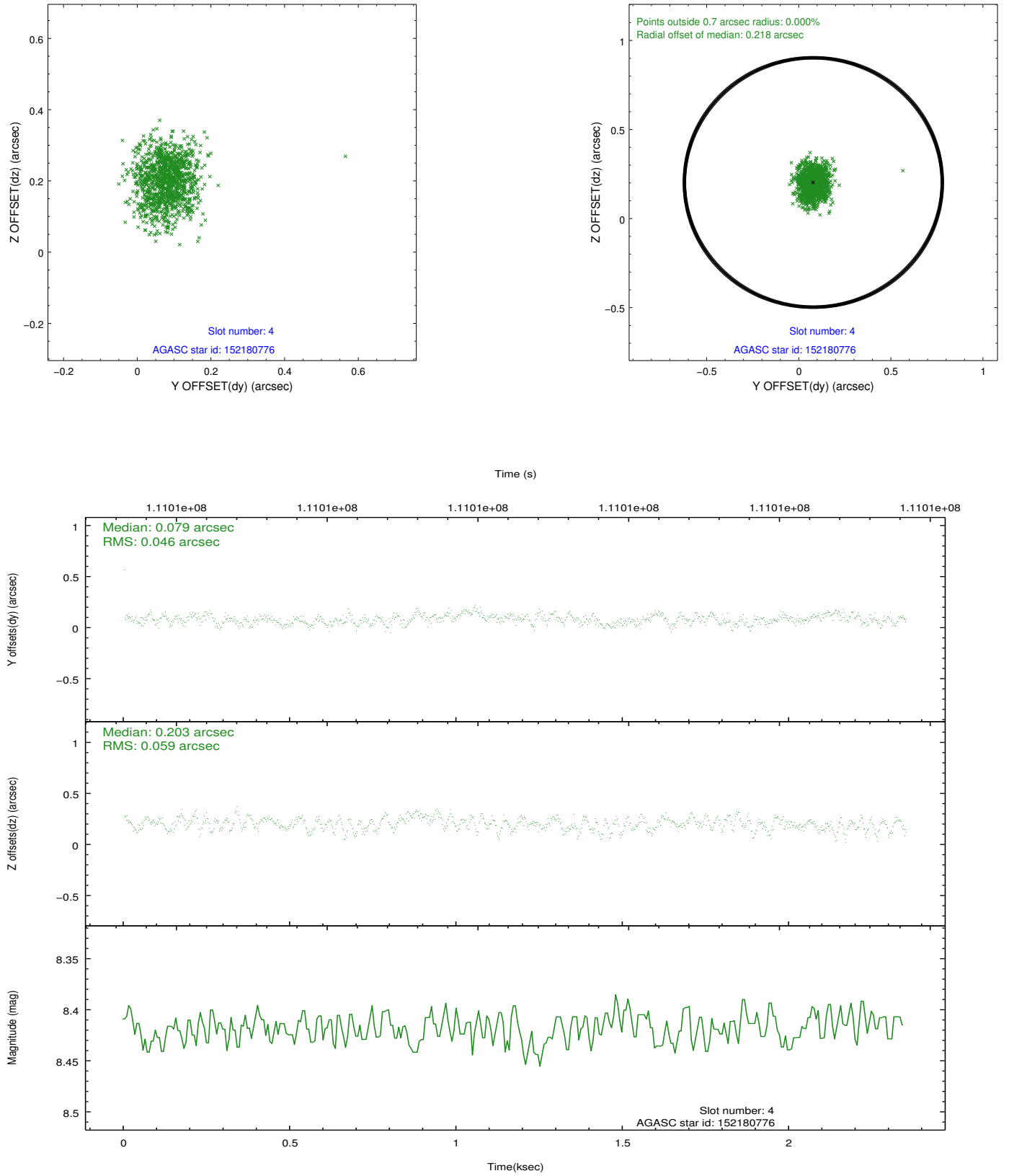
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.97 | 574 | 0.045 | 0.058 | 0.005 | 0.012 | 0.000000 | 0.000000 | -759.05 | -1292.81 |
| 1 | FID | HRC-I-3 | 7.06 | 574 | 0.016 | -0.094 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1188.89 | 1009.35 |
| 2 | FID | HRC-I-4 | 7.00 | 574 | 0.053 | -0.053 | 0.005 | 0.008 | 0.000000 | 0.000000 | 1281.68 | 1011.01 |
| 3 | GUIDE | 152181256 | 7.78 | 1147 | -0.016 | 0.109 | 0.057 | 0.092 | 349.141958 | 7.580367 | -1562.05 | -233.87 |
| 4 | GUIDE | 152180776 | 8.42 | 1147 | 0.079 | 0.203 | 0.077 | 0.127 | 349.576658 | 7.835091 | -1496.89 | -2034.50 |
| 5 | GUIDE | 152180360 | 8.60 | 1147 | -0.011 | 0.061 | 0.060 | 0.092 | 349.110181 | 8.037159 | -64.28 | -921.14 |
| 6 | GUIDE | 152188480 | 8.92 | 1145 | -0.117 | -0.085 | 0.074 | 0.118 | 348.517103 | 8.131940 | 1247.12 | 773.34 |
| 7 | GUIDE | 76418312 | 9.13 | 1146 | 0.076 | -0.286 | 0.107 | 0.168 | 348.593333 | 7.241033 | -1697.94 | 2070.73 |

2.4 Star Slots

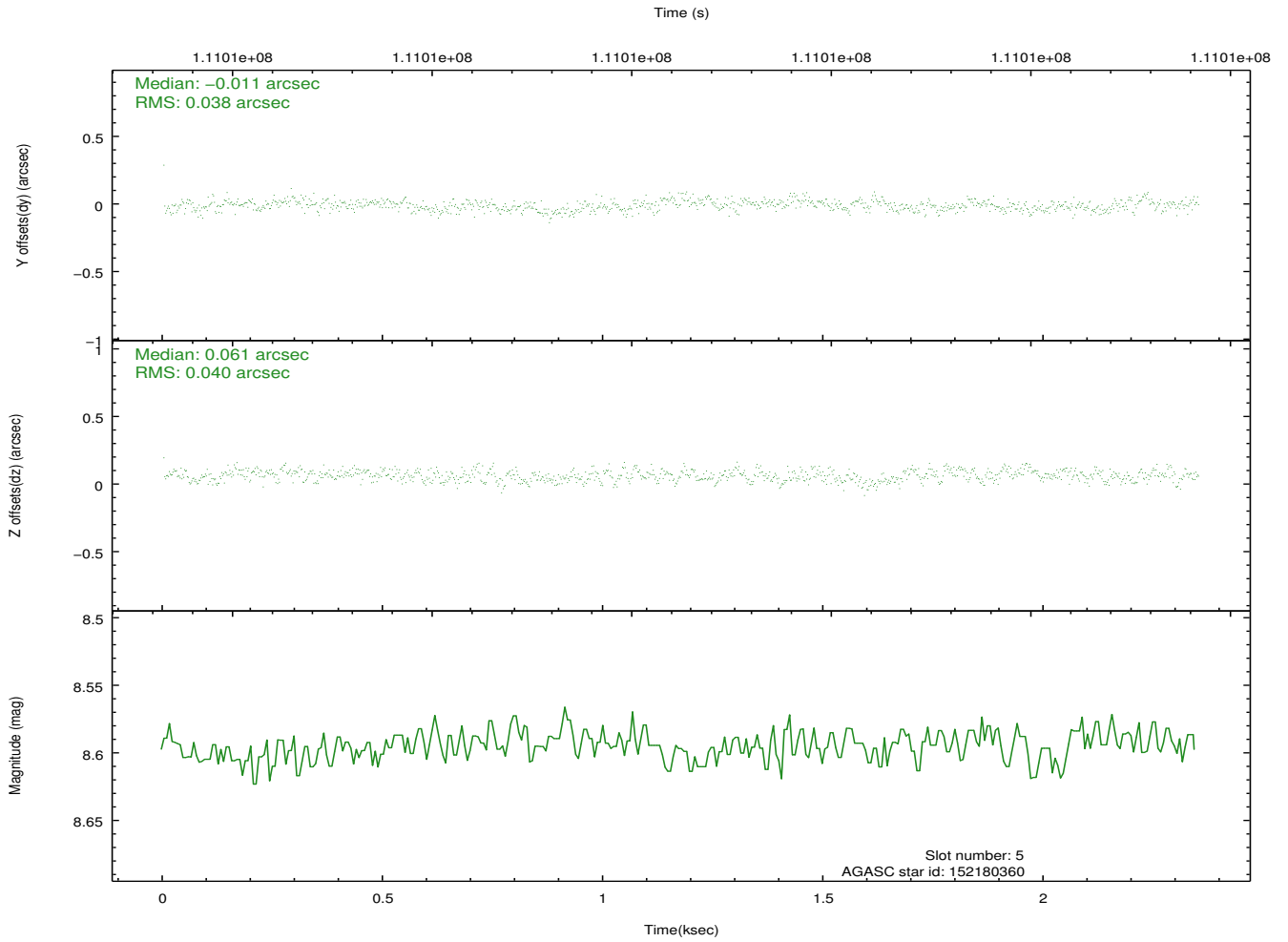
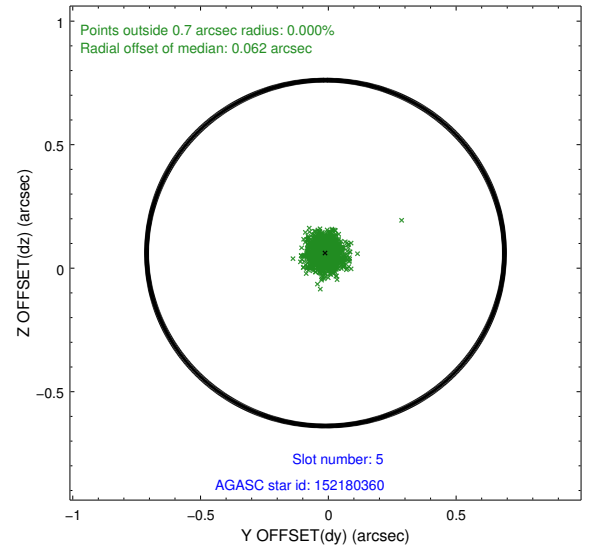
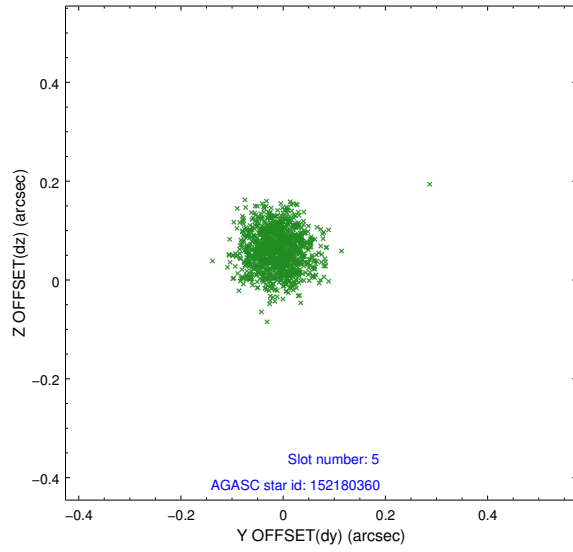
2.4.1 Slot 3



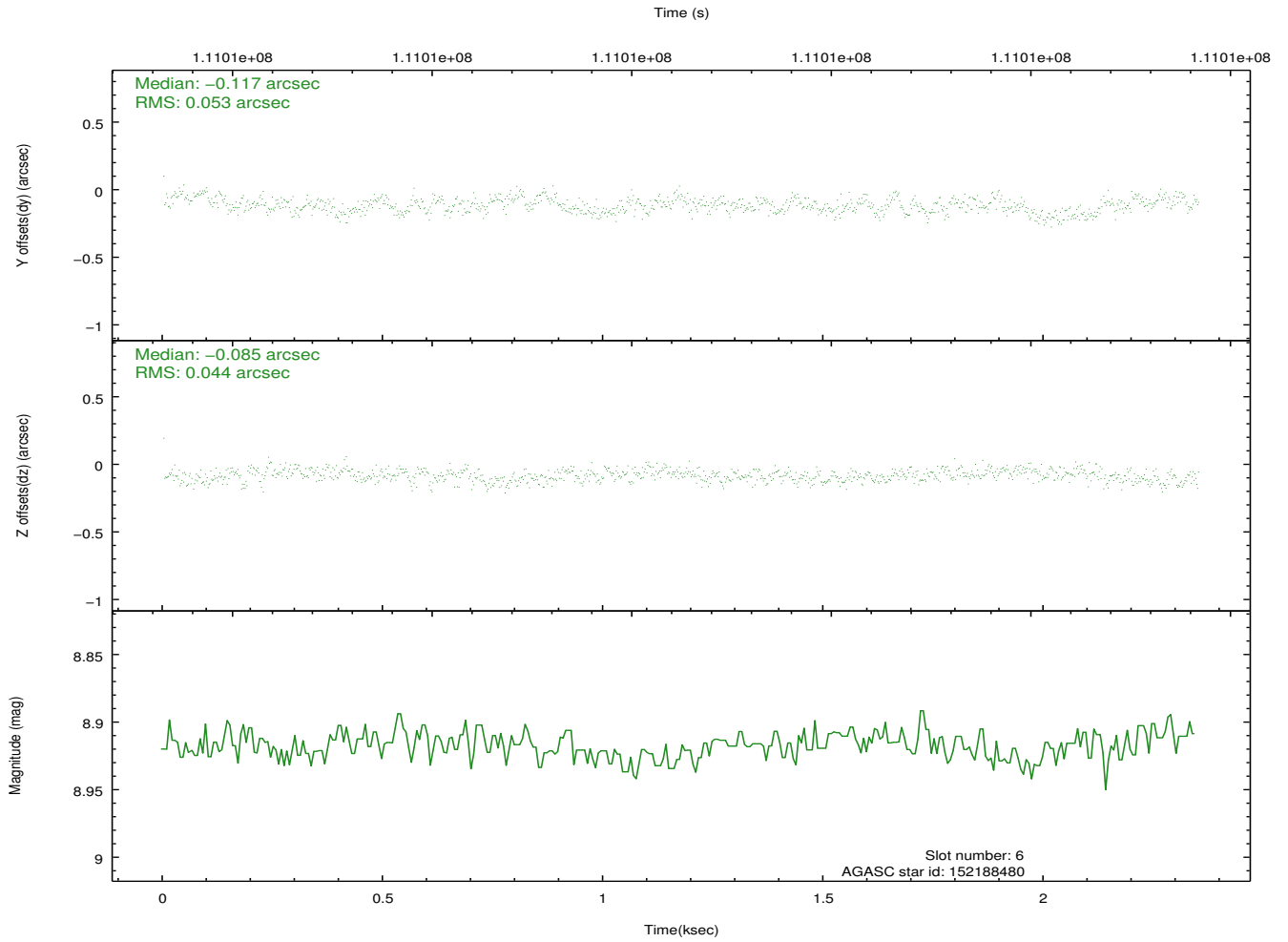
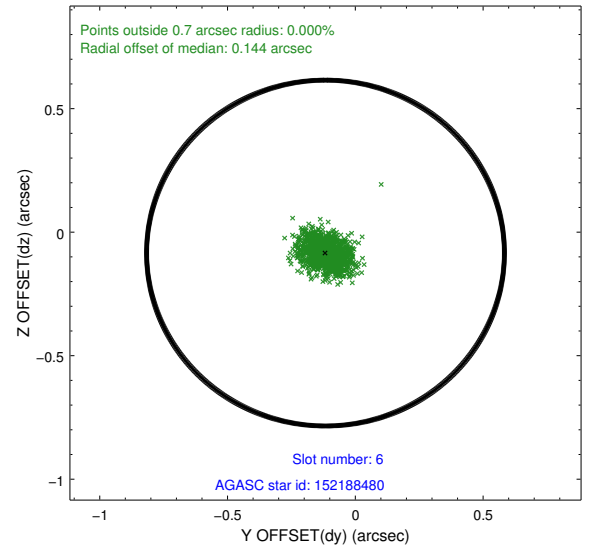
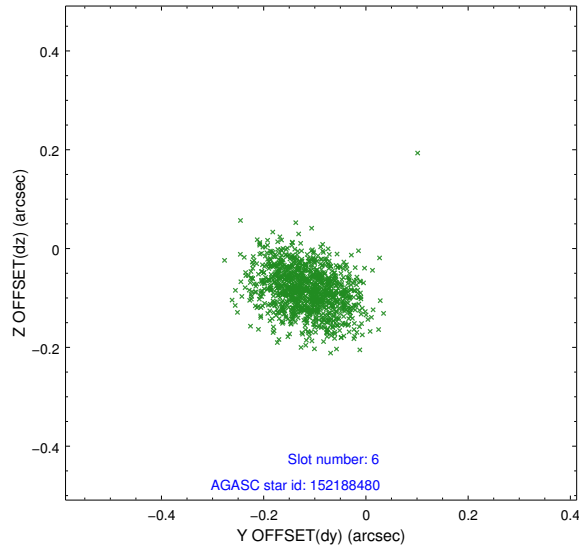
2.4.2 Slot 4



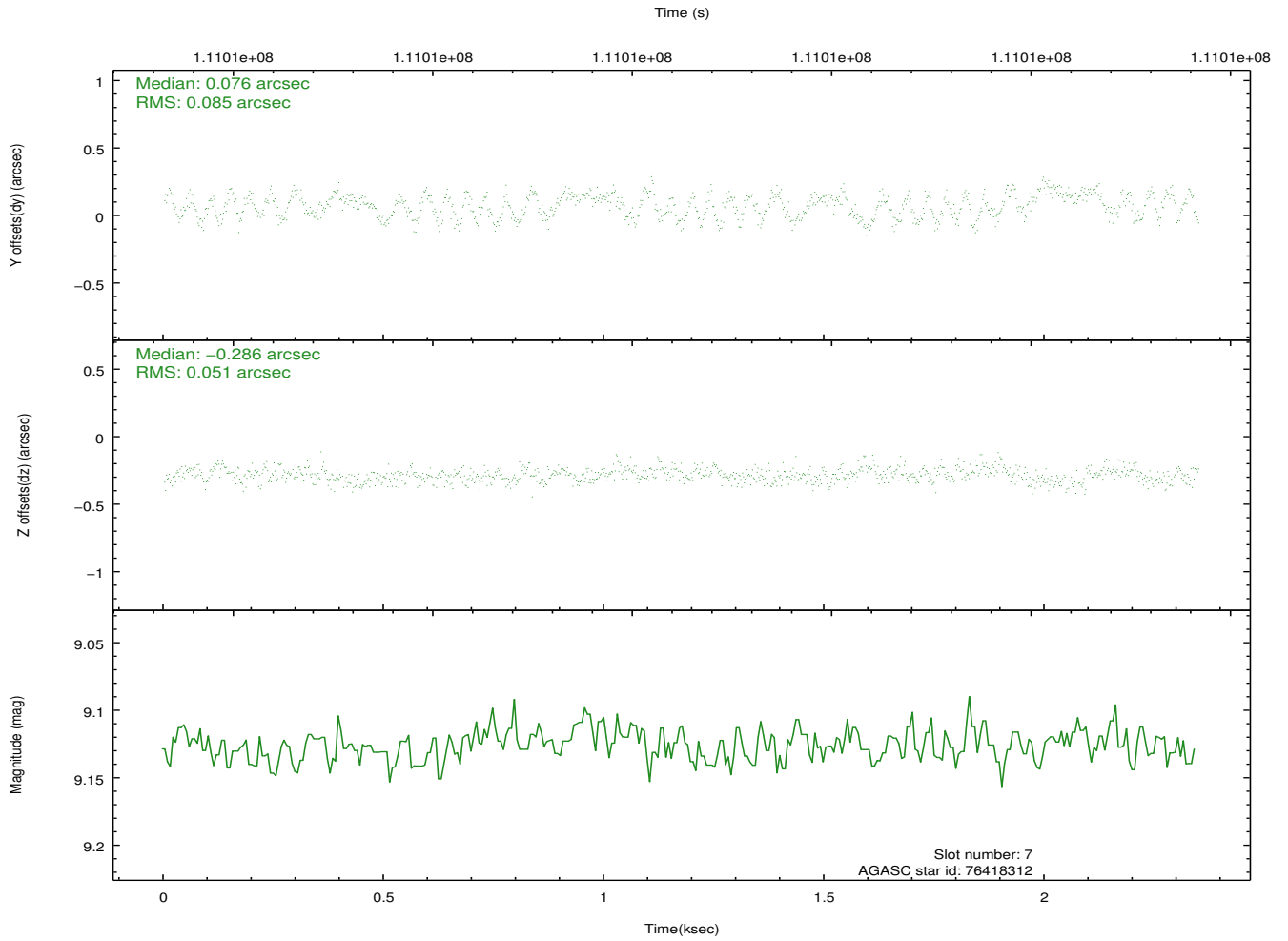
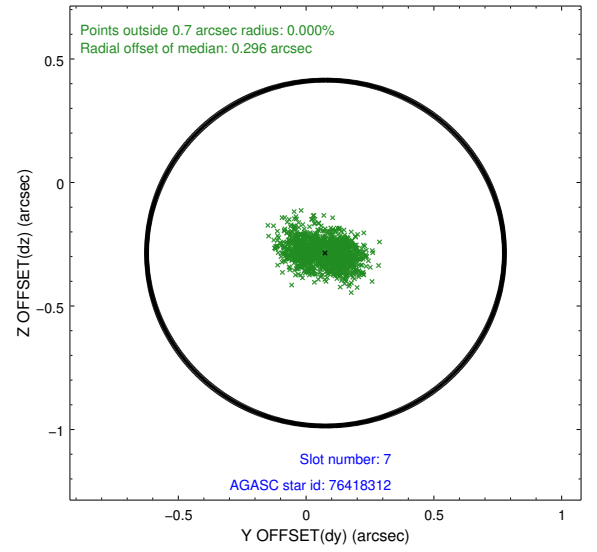
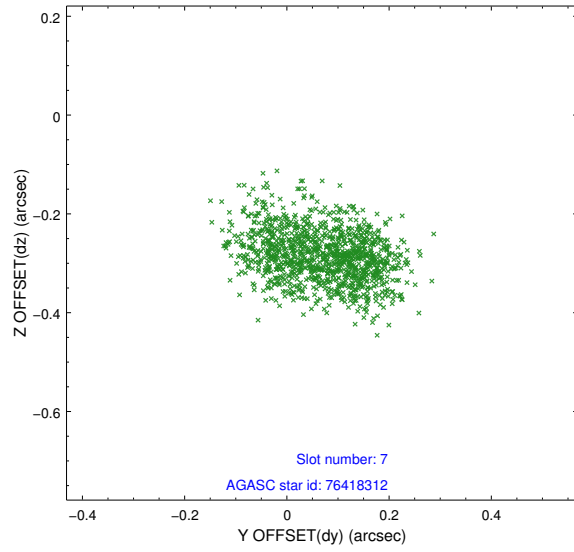
2.4.3 Slot 5



2.4.4 Slot 6

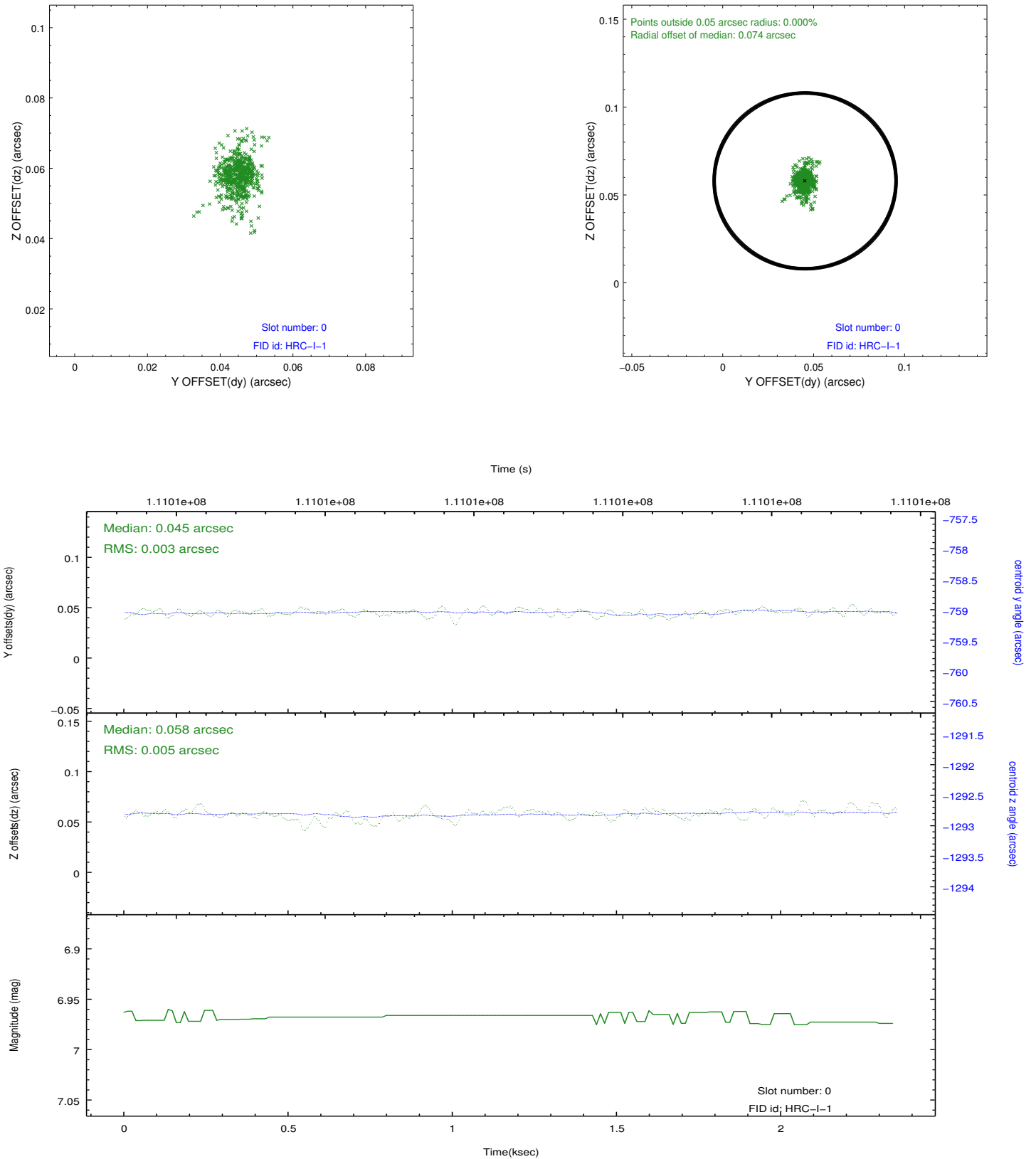


2.4.5 Slot 7

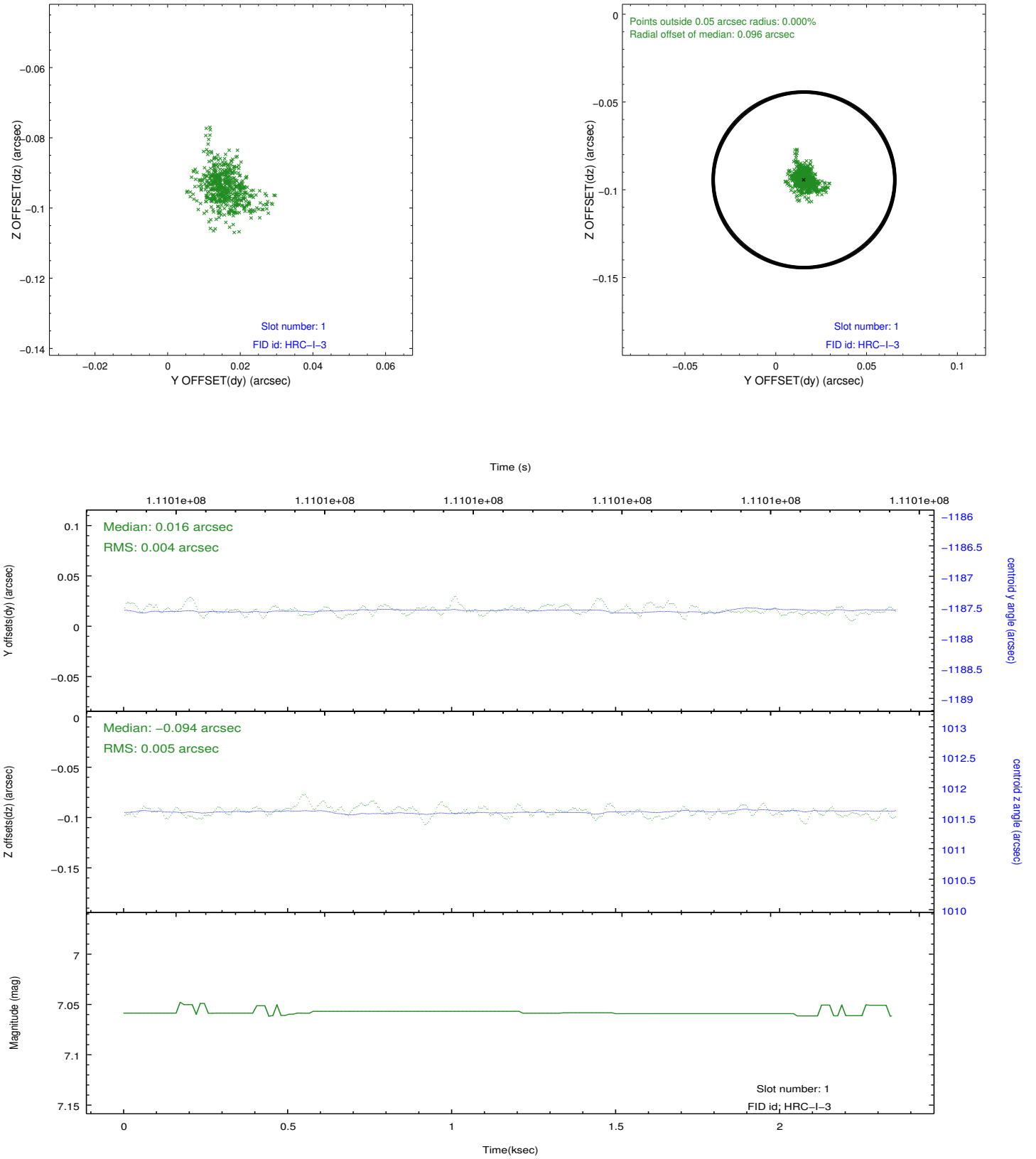


2.5 FID Slots

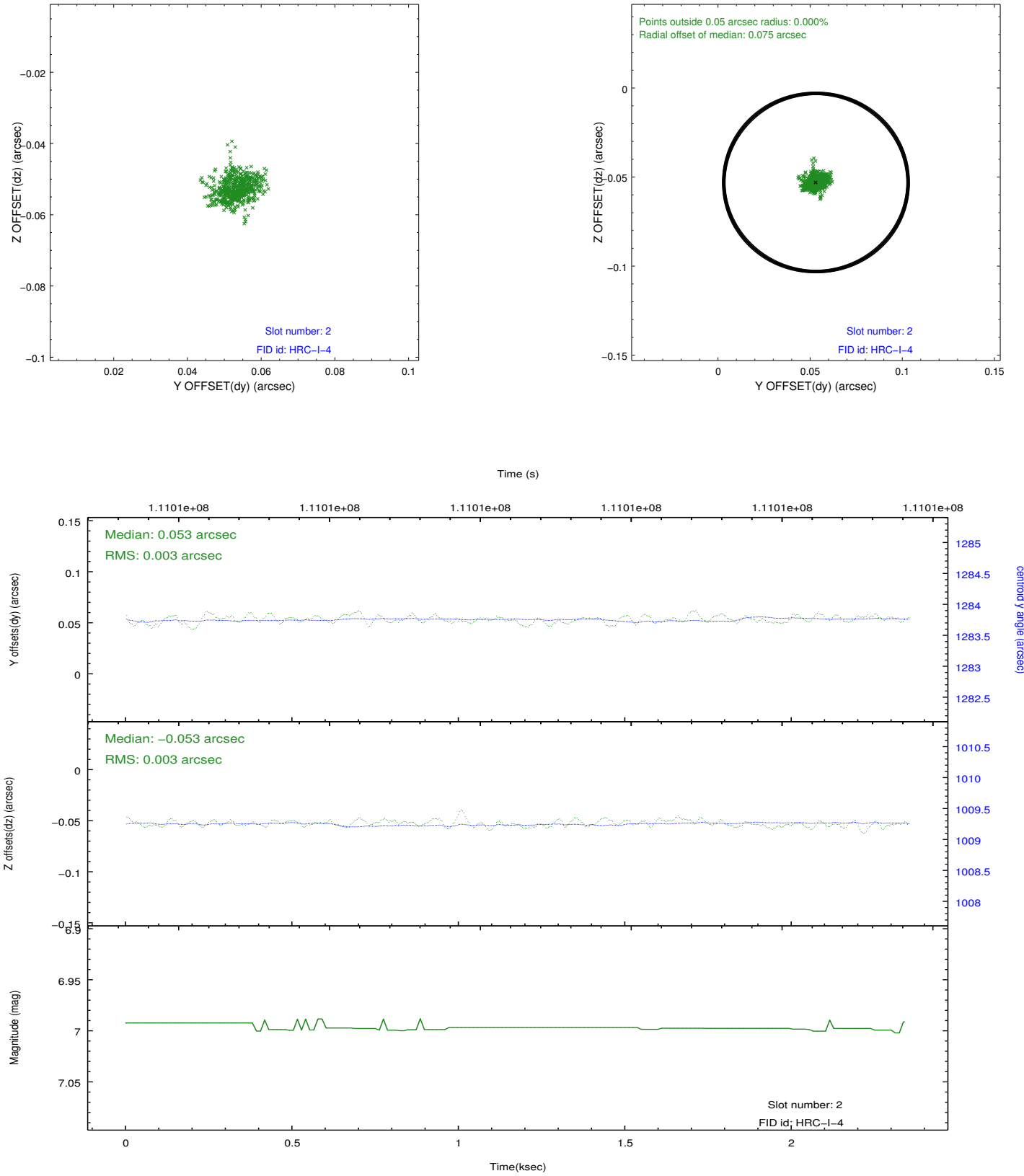
2.5.1 Slot 0



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) | 2012.09.21 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.043 |

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.