

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18406 - L2 Version 1
Chandra X-Ray Center

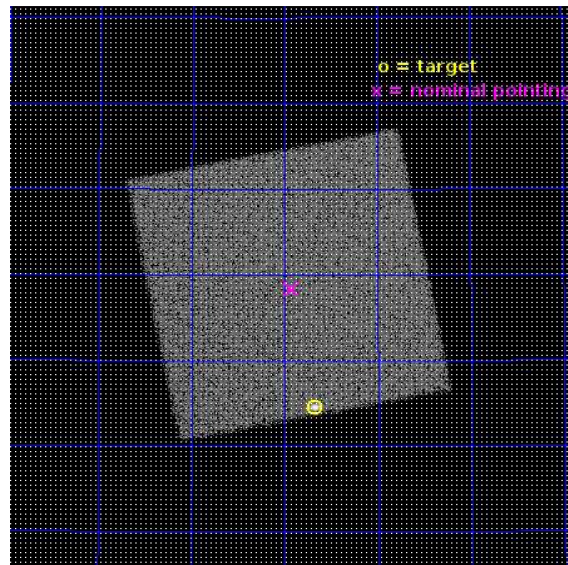
L2 Processing Date : Sep 21 2016

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1 Front

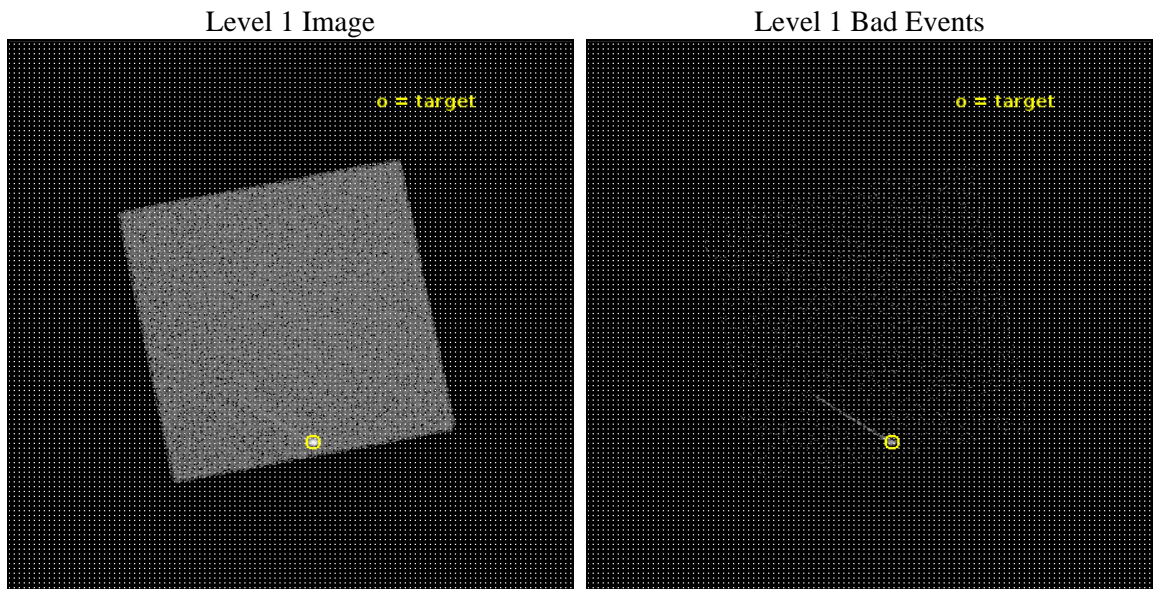
| | | |
|----------|--|---------------------------------------|
| seq_num | 291301 | Sequence number |
| obs_id | 18406 | Observation id |
| title | AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ArLac | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.23206992856 | Nominal RA [deg] |
| dec_nom | 45.972857001473 | Nominal Dec [deg] |
| roll_nom | 213.88292683862 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 1188.2313184738 | [s] |
| livetime | 1174.7104985949 | Ontime multiplied by DTCOR |
| l2events | 112780 | 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 | 10.5.1.1 | Processing system revision | ontime | 1188.2313184738 | [s] |
| caldbver | 4.7.2 | | l1events | 190120 | Number of level 1 events |
| date | 2016-09-21T12:47:47 | Date and time of file creation | | | |
| revision | 1 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

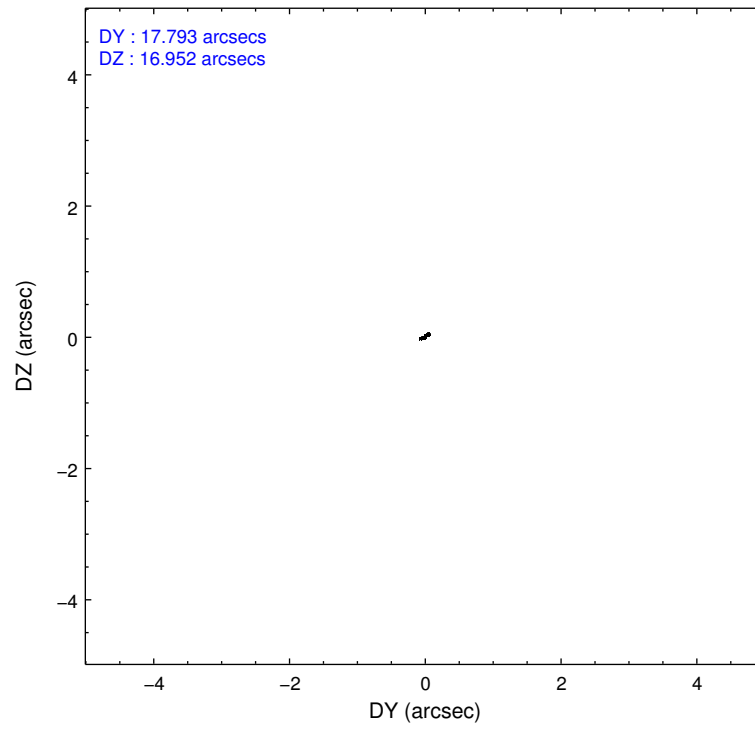
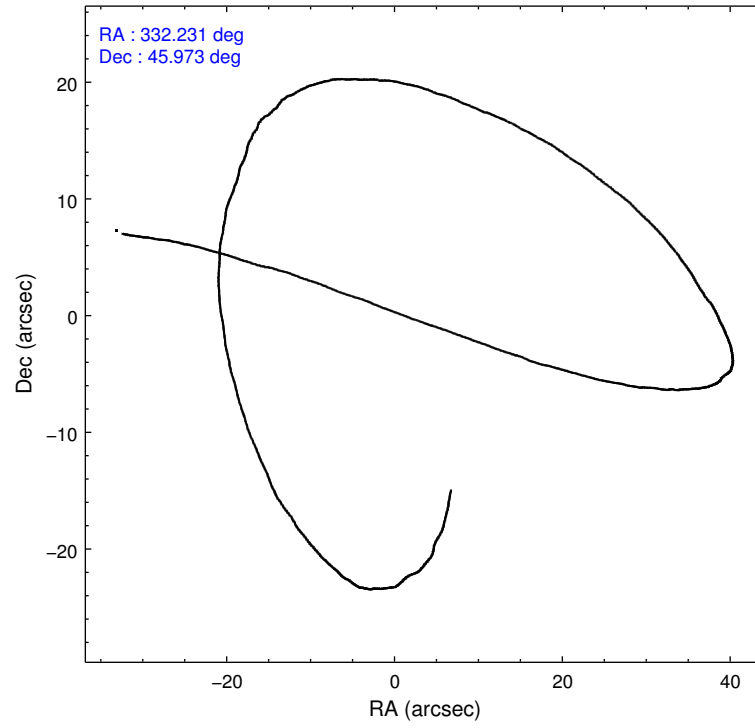
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 190120 |
| rejected events | 40492 |
| rejected % | 21% |

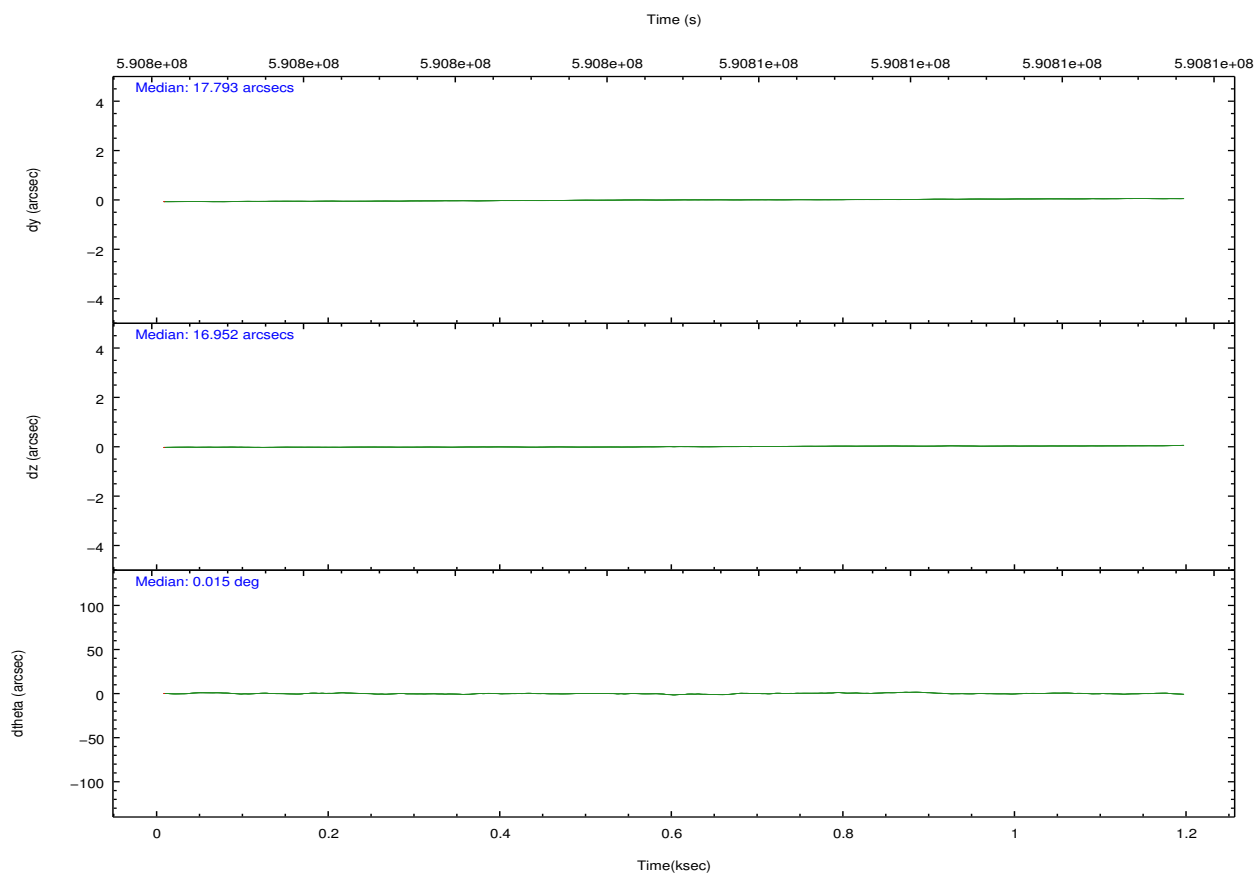
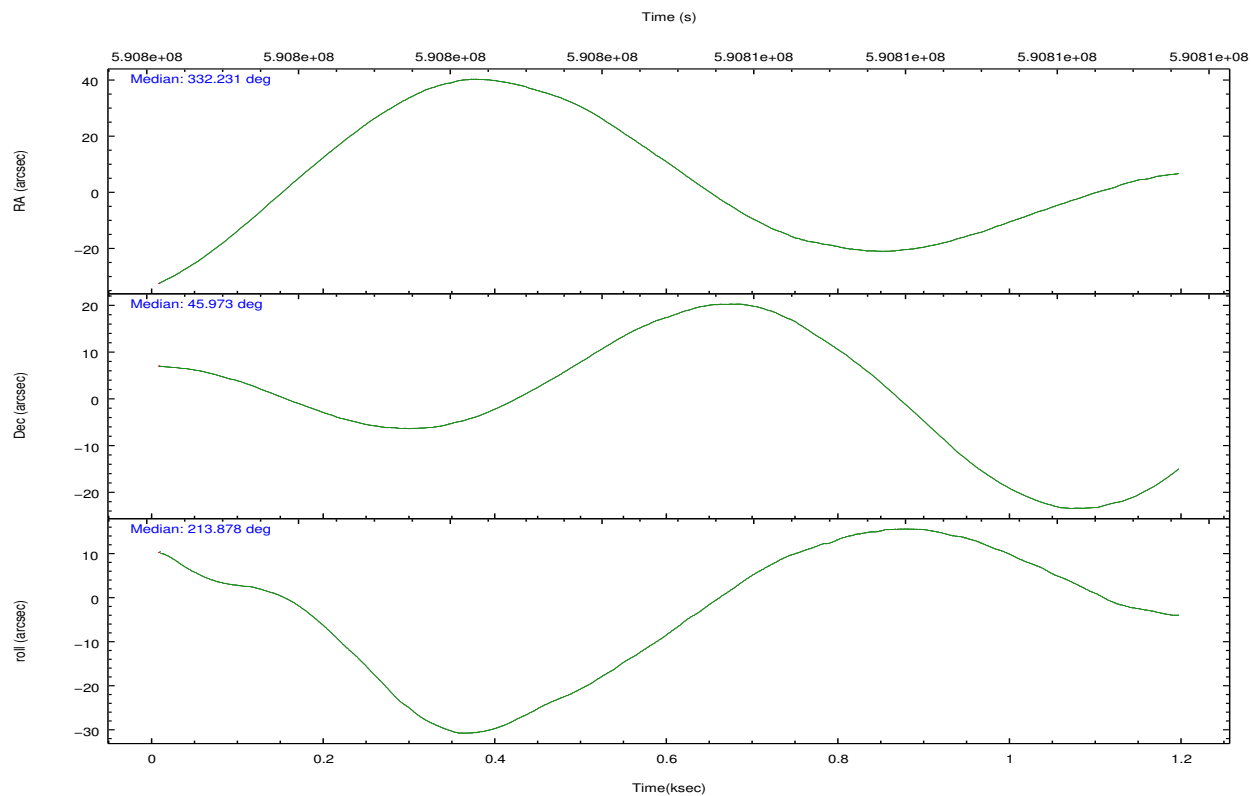
2.2 Compared Parameters

| 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 | 332.248459 | 332.232069928564 |
| [deg] Pointing Dec | 45.998360 | 45.97285700147281 |
| [deg] Pointing Roll | 213.966649 | 213.8829268386179 |
| [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) | 590804677.184000 | 590804301.3298399 |
| Observation start date | 2016-09-21T00:23:29 | 2016-09-21T00:18:21 |
| [s] Observation end time (MET) | 590805677.184000 | 590805811.15493 |
| Observation end date | 2016-09-21T00:40:09 | 2016-09-21T00:43:31 |

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

2.3 Aspect



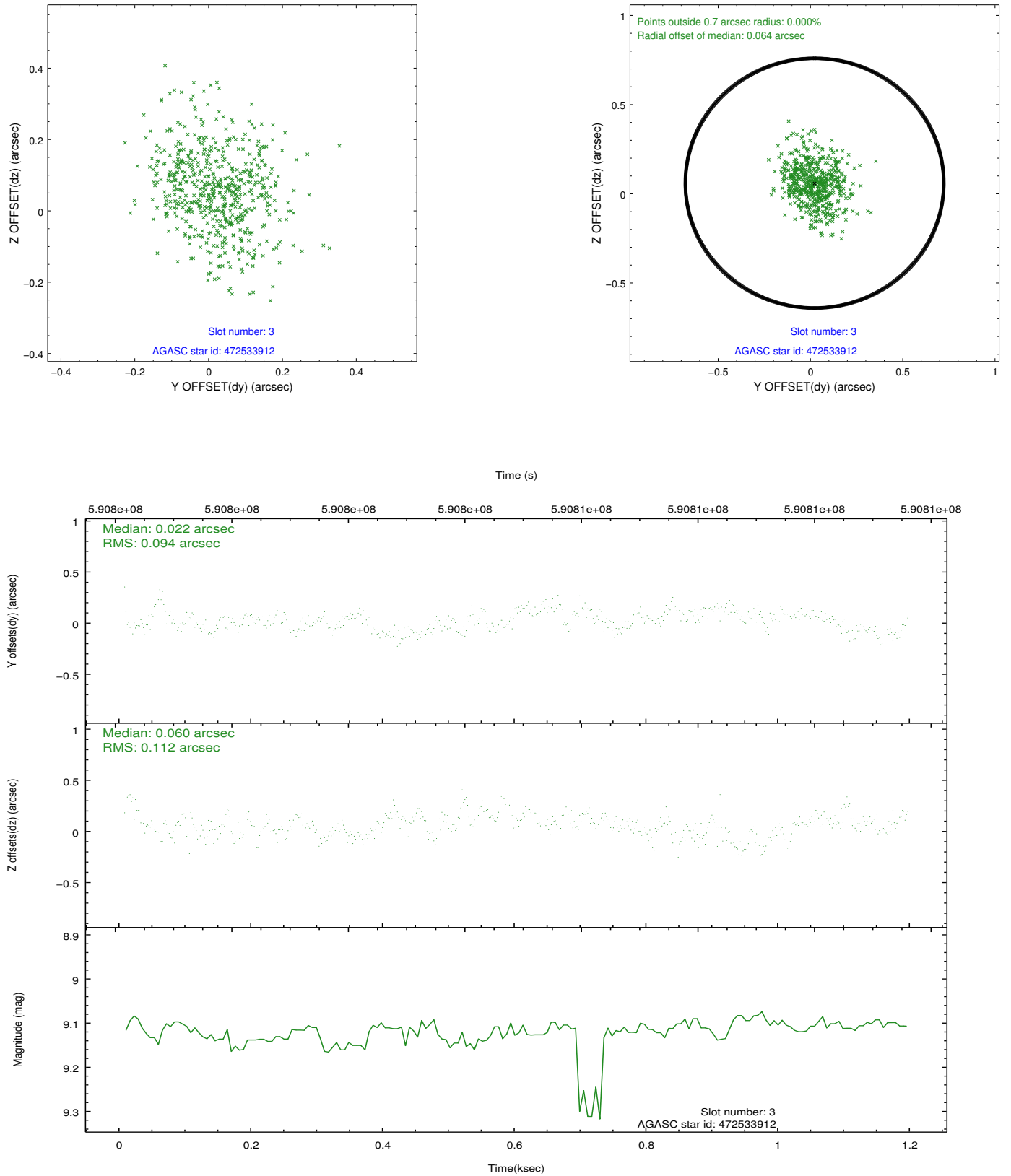


Slot Statistics

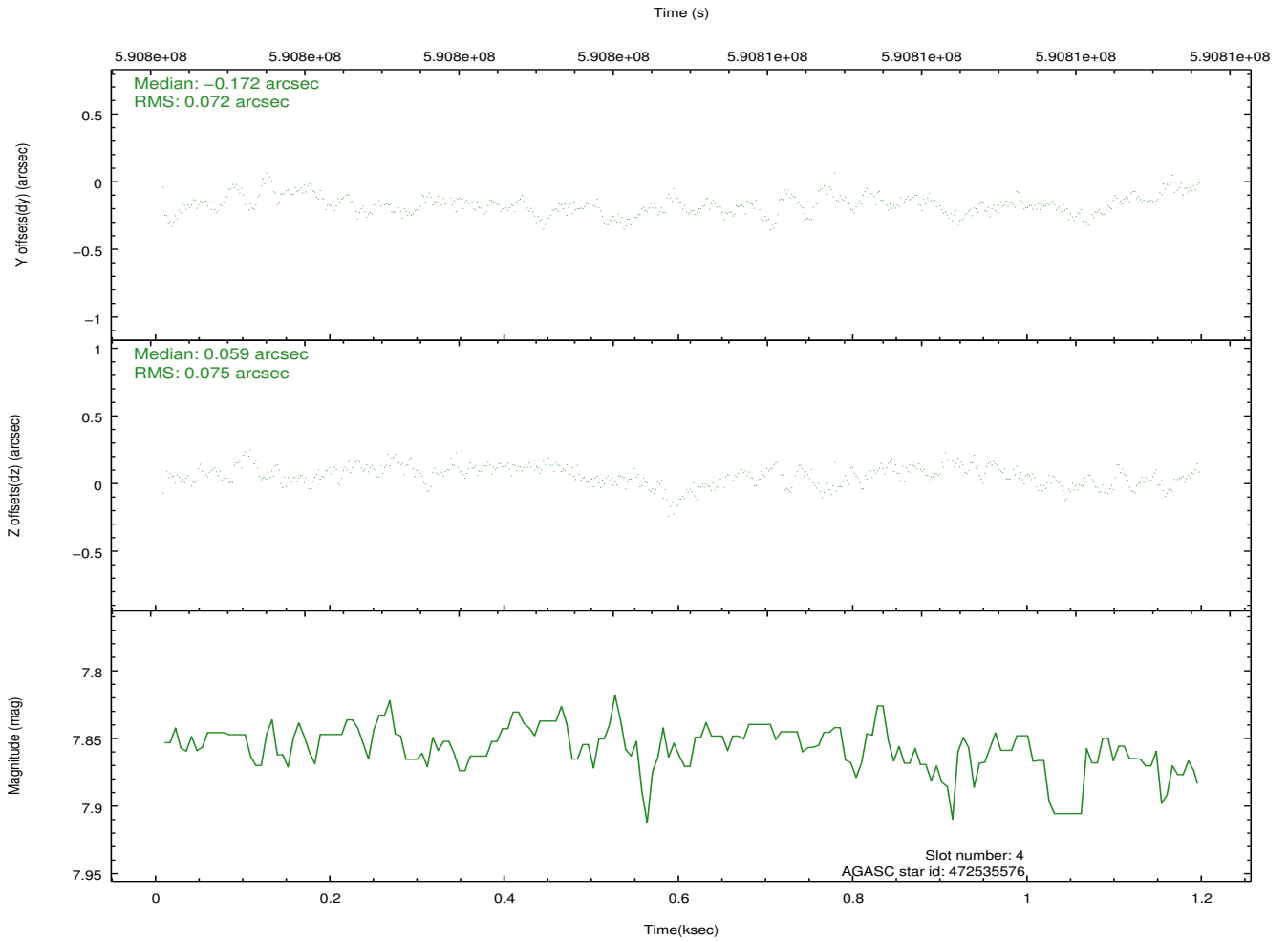
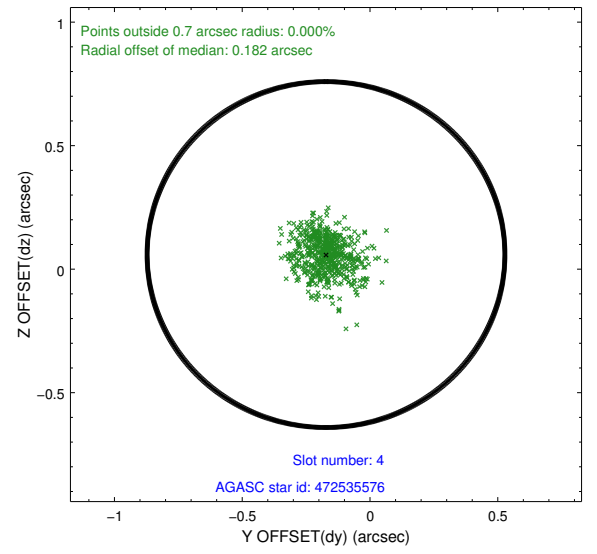
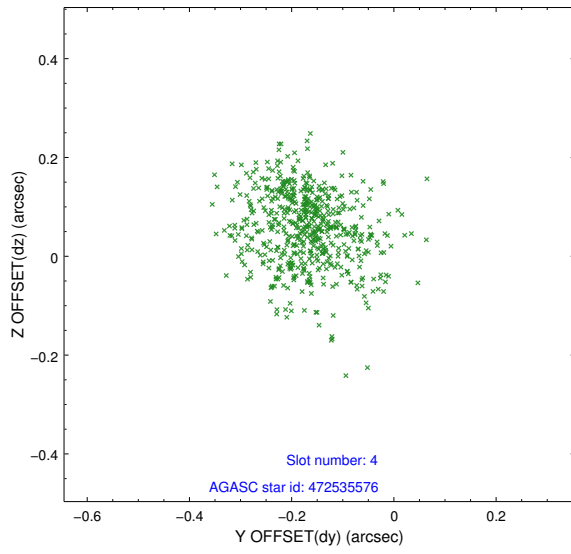
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | | HRC-I-1 | 7.04 | 291 | -0.310 | -0.155 | 0.006 | 0.009 | 0.000000 | 0.000000 | -774.13 | -1305.15 |
| 1 | FID | | HRC-I-2 | 7.06 | 291 | 0.267 | -0.102 | 0.007 | 0.010 | 0.000000 | 0.000000 | 836.41 | -1311.35 |
| 2 | FID | | HRC-I-4 | 7.05 | 291 | 0.159 | 0.164 | 0.006 | 0.010 | 0.000000 | 0.000000 | 1272.27 | 992.58 |
| 3 | GUIDE | used | 472533912 | 9.12 | 581 | 0.022 | 0.060 | 0.152 | 0.257 | 331.791136 | 46.368695 | 195.00 | -1745.01 |
| 4 | GUIDE | used | 472535576 | 7.86 | 581 | -0.172 | 0.059 | 0.110 | 0.183 | 331.438373 | 46.291802 | 1075.04 | -2015.31 |
| 5 | GUIDE | used | 472536328 | 8.12 | 580 | -0.027 | 0.223 | 0.106 | 0.183 | 331.496671 | 46.454831 | 624.71 | -2417.07 |
| 6 | GUIDE | used | 472655152 | 9.39 | 581 | 0.083 | -0.217 | 0.178 | 0.290 | 332.504239 | 45.862991 | -259.73 | 755.42 |
| 7 | GUIDE | used | 472665256 | 8.99 | 580 | 0.109 | -0.114 | 0.133 | 0.215 | 332.808125 | 46.195041 | -1556.03 | 186.98 |

2.4 Star Slots

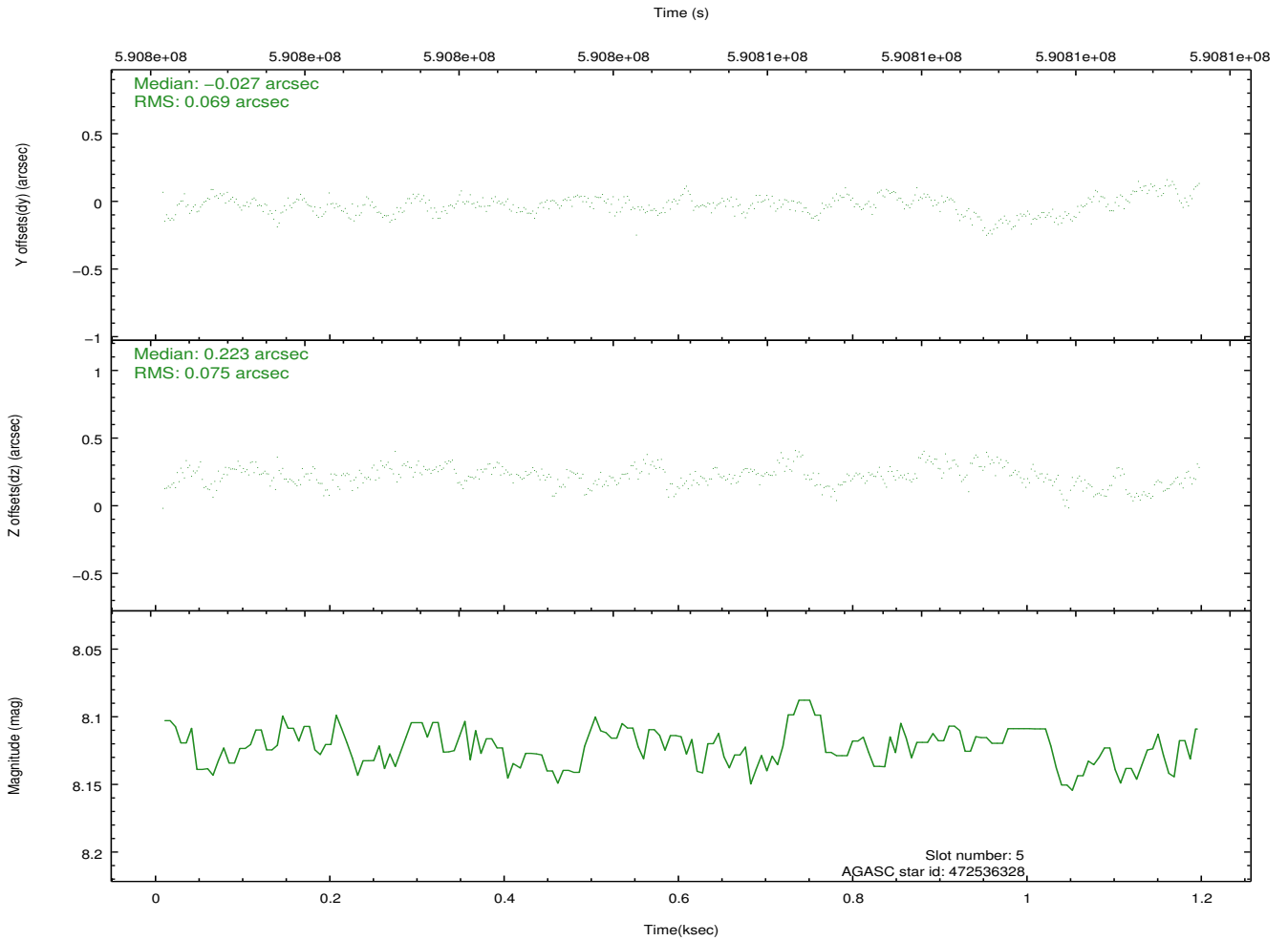
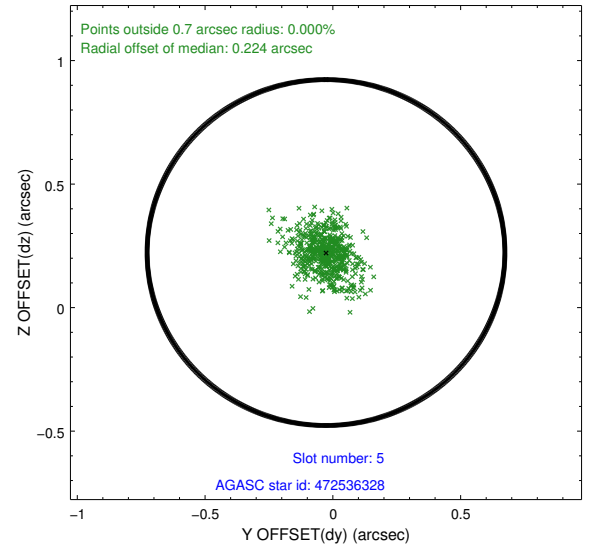
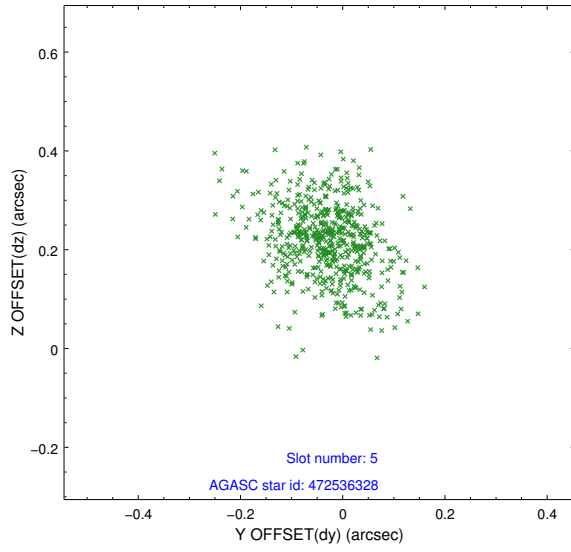
2.4.1 Slot 3



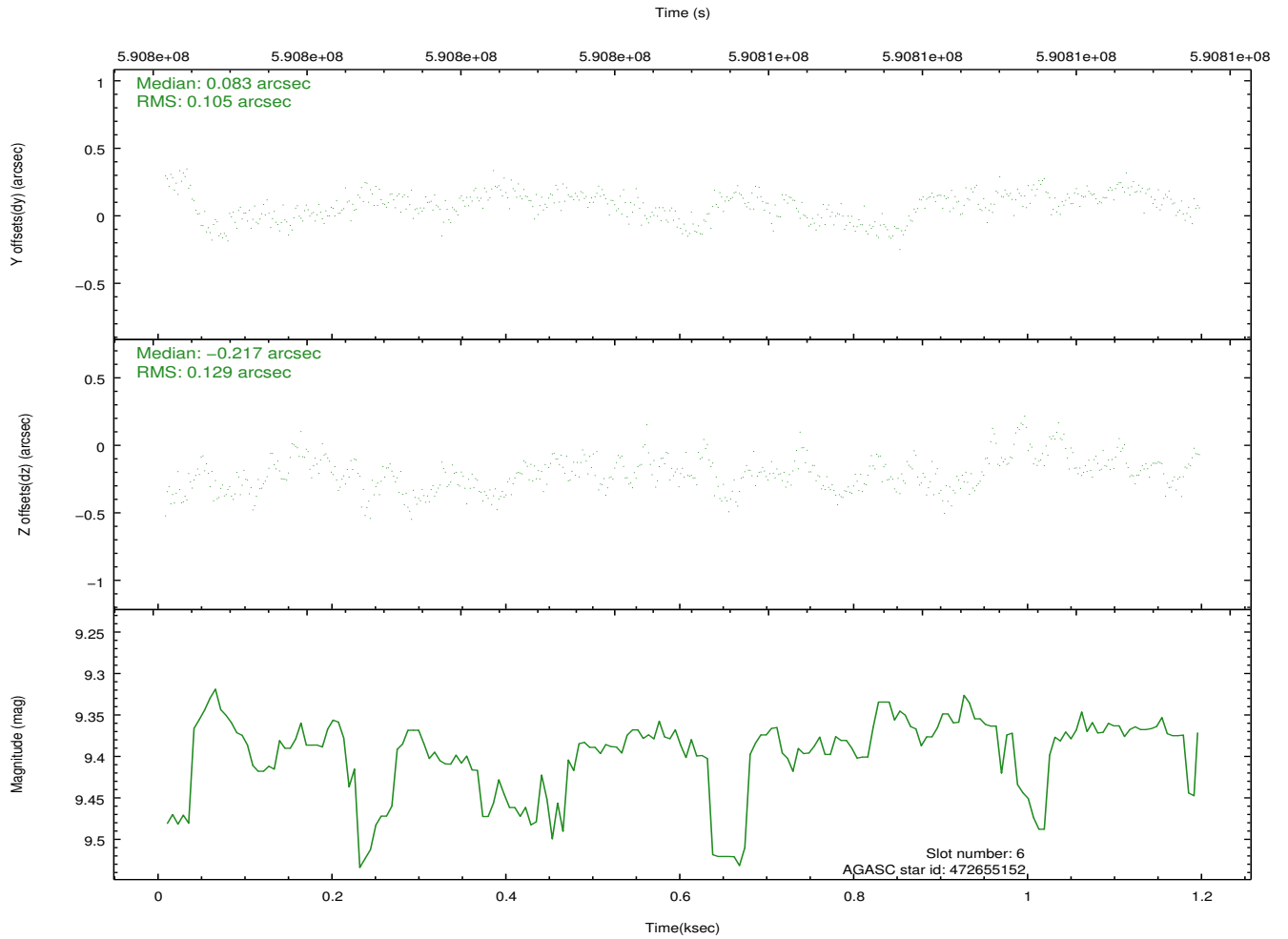
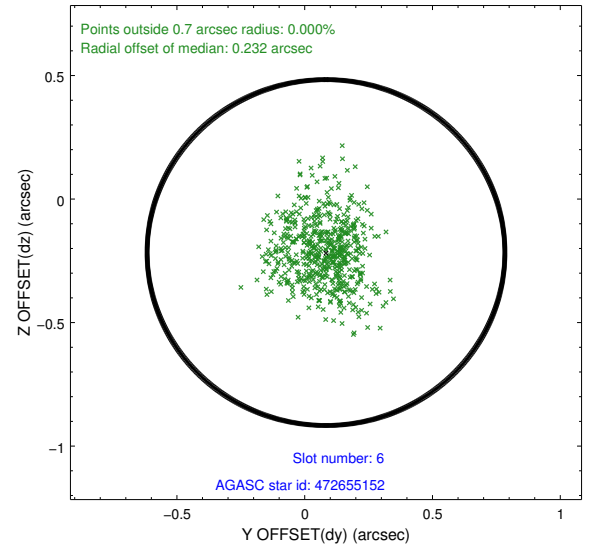
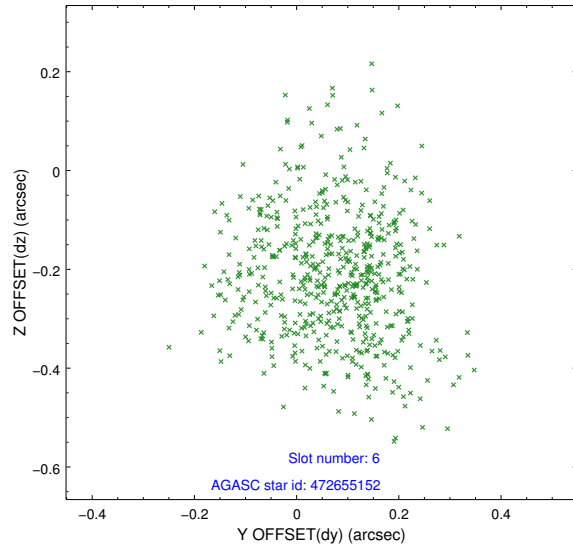
2.4.2 Slot 4



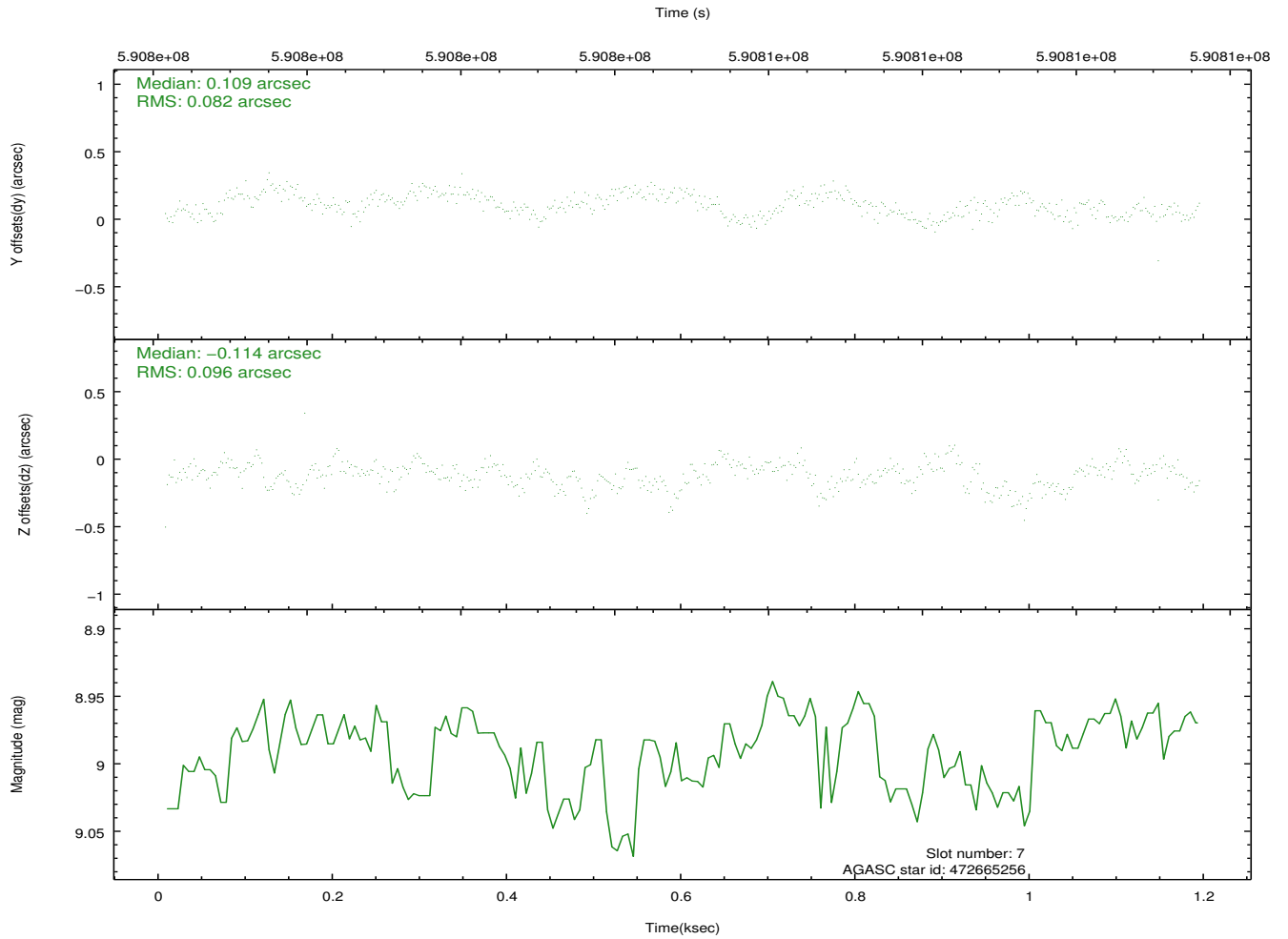
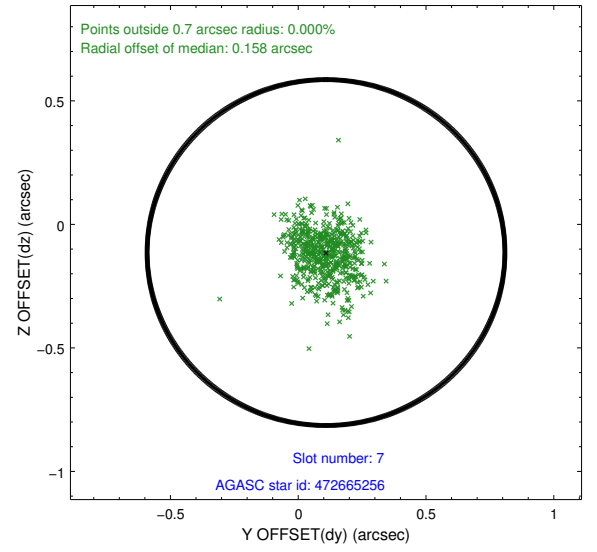
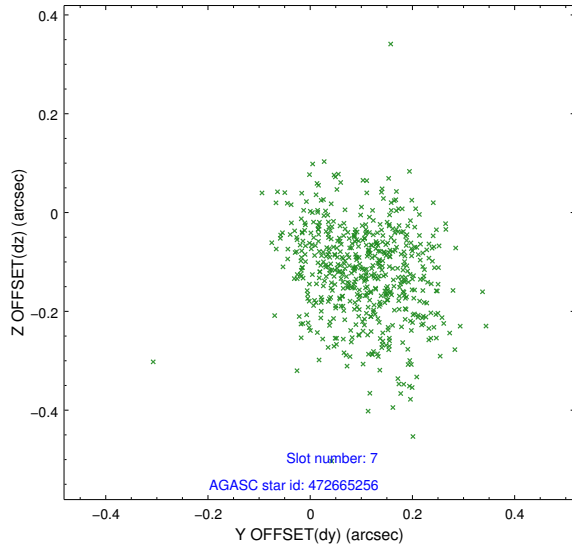
2.4.3 Slot 5



2.4.4 Slot 6

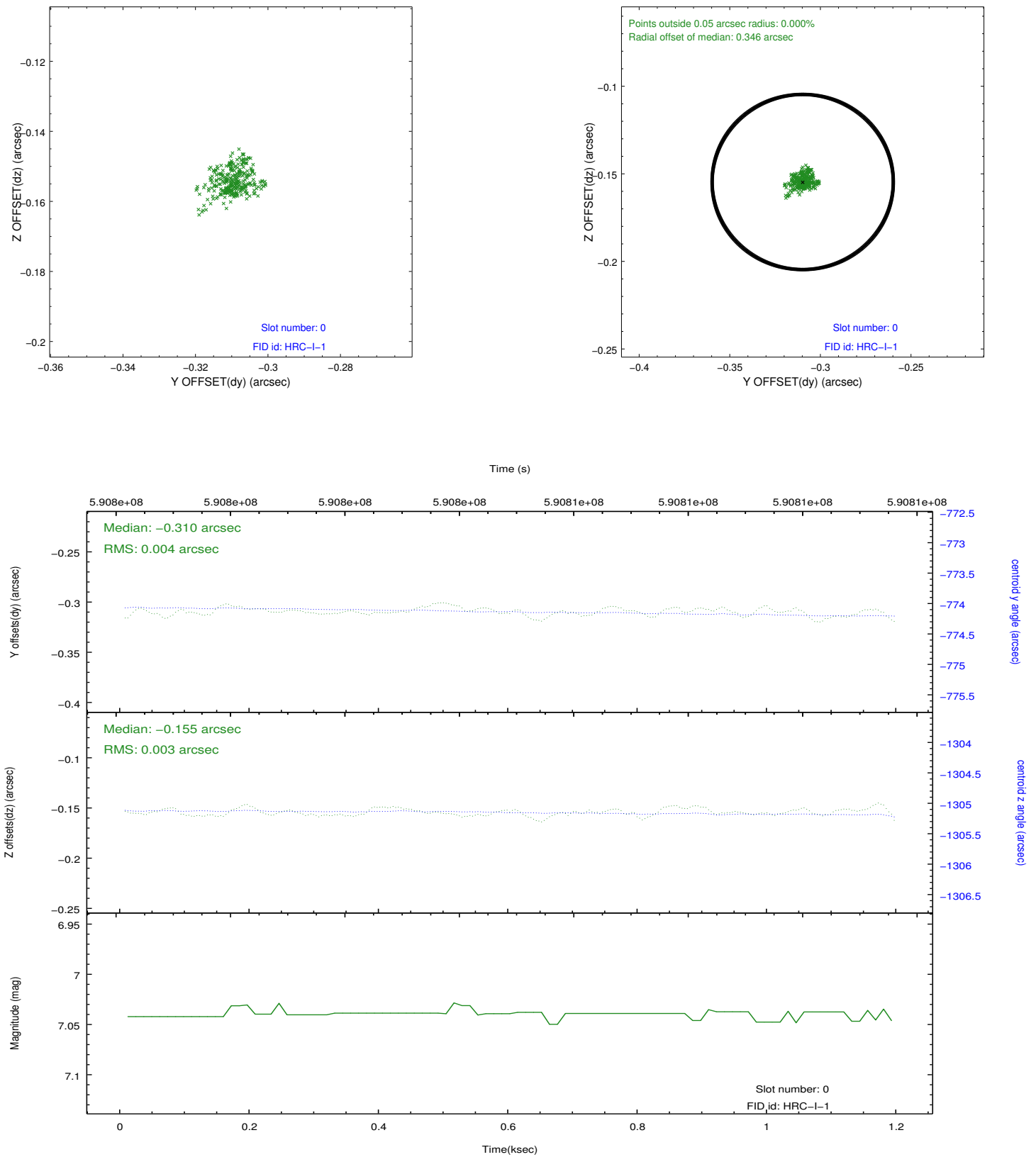


2.4.5 Slot 7

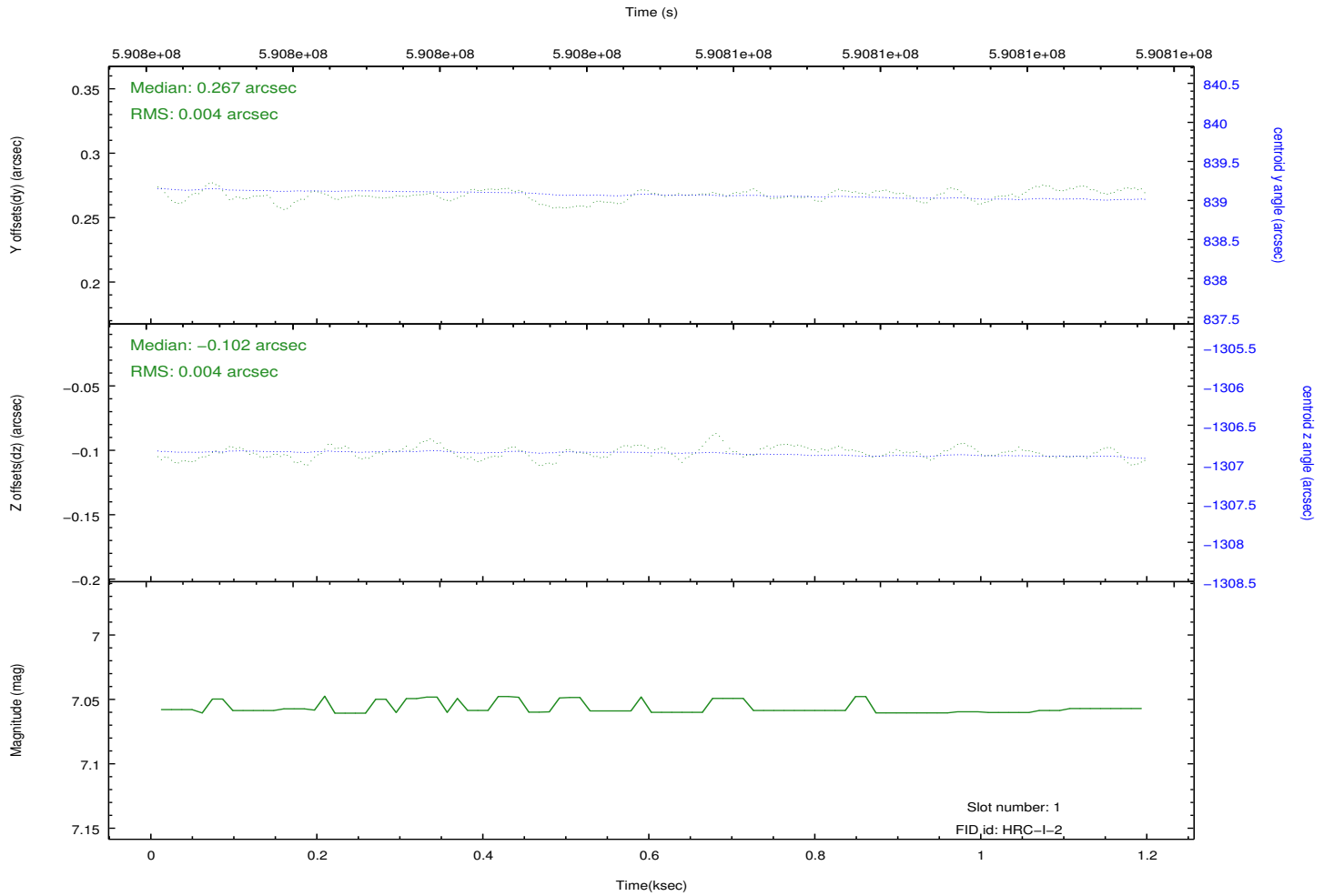
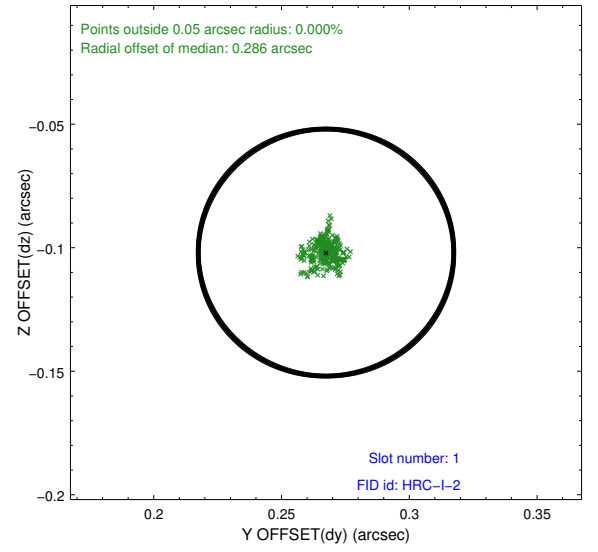
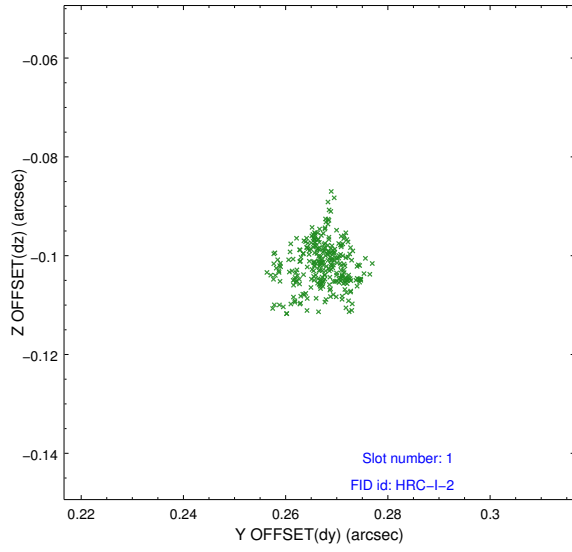


2.5 FID Slots

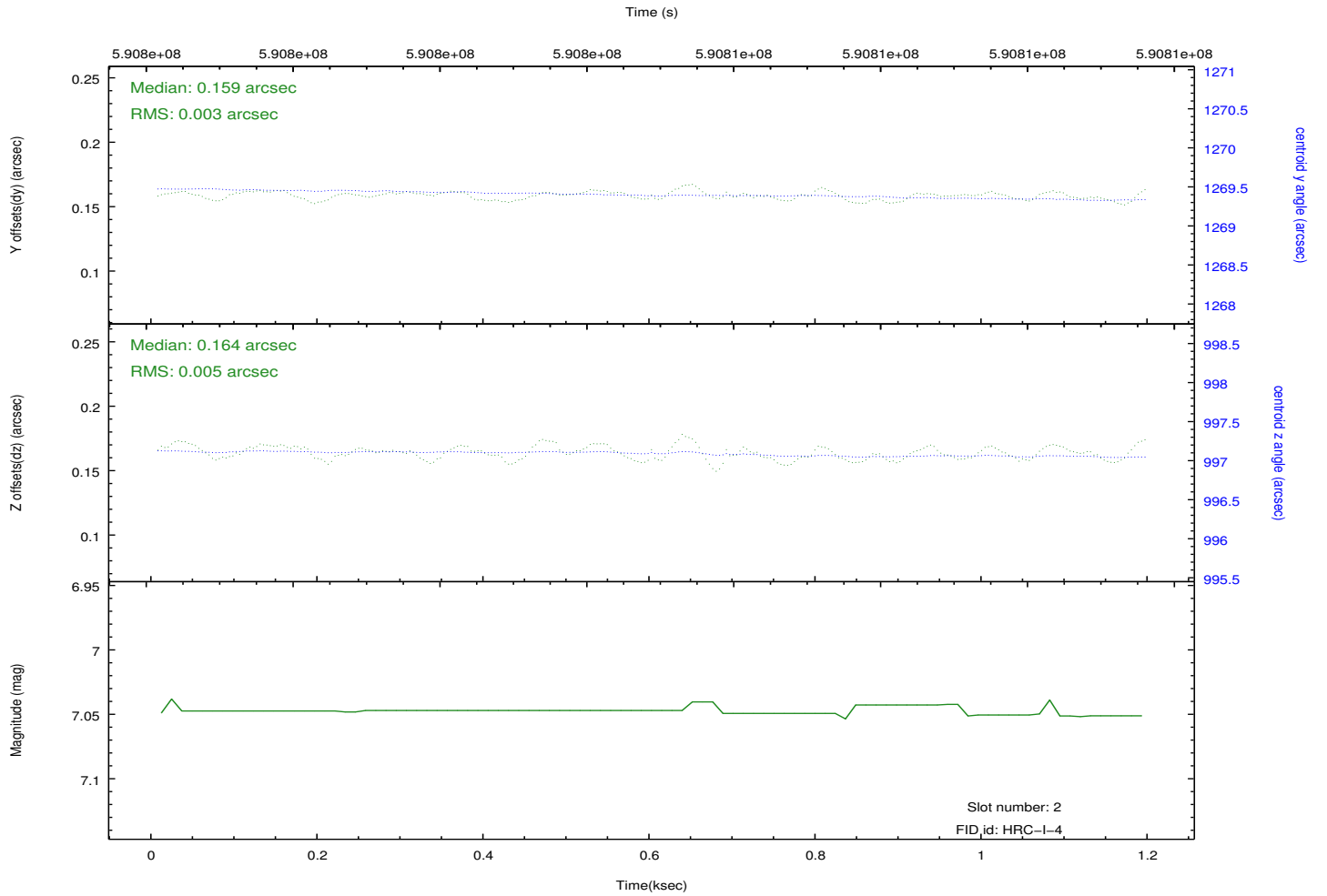
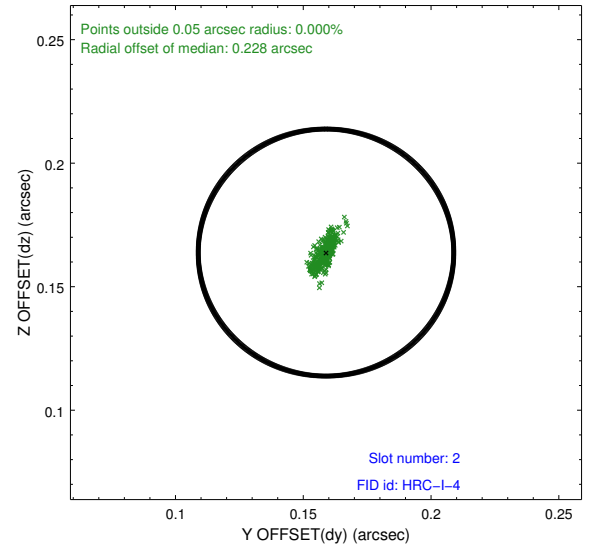
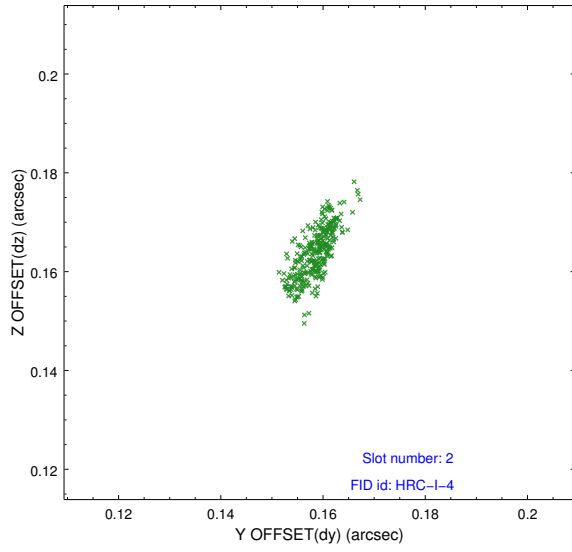
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2016.09.21 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1882313184738 |

A.2 Comments