

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6537 - L2 Version 4
Chandra X-Ray Center

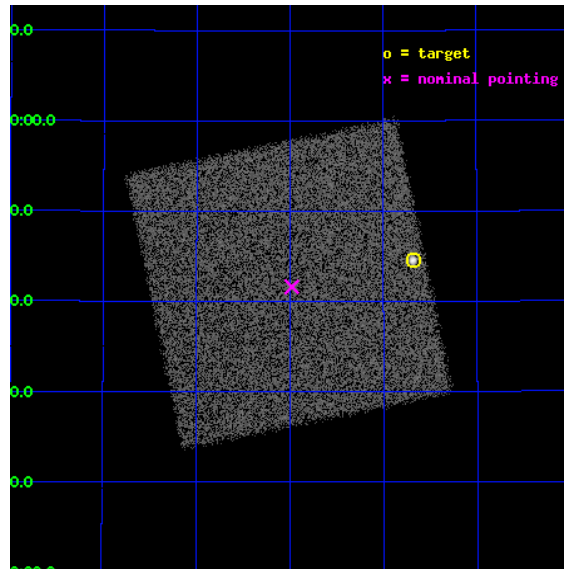
L2 Processing Date : Aug 11 2012

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1 Front

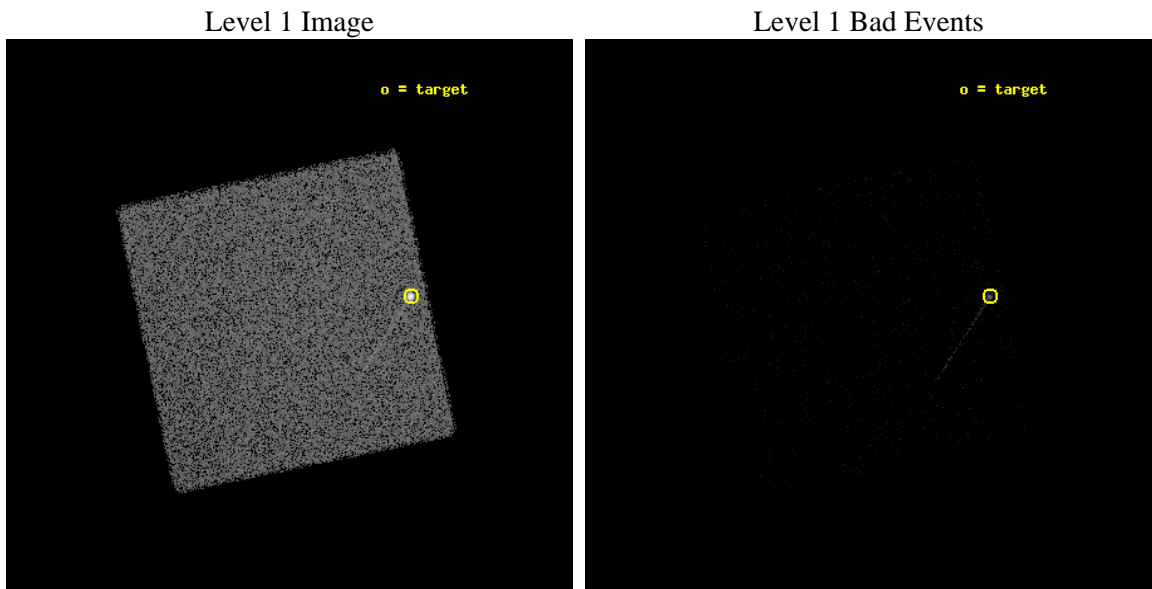
| | | |
|----------|--|---------------------------------------|
| seq_num | 290630 | Sequence number |
| obs_id | 6537 | Observation id |
| title | AO7 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.4946159653 | Nominal RA [deg] |
| dec_nom | 45.694142351947 | Nominal Dec [deg] |
| roll_nom | 213.29886296787 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 1179.7750554681 | [s] |
| livetime | 1168.9703389793 | Ontime multiplied by DTCOR |
| l2events | 62086 | 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 | 1179.7750554681 | [s] |
| caldbver | 4.5.1.1 | | l1events | 115973 | Number of level 1 events |
| date | 2012-08-11T13:38:01 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

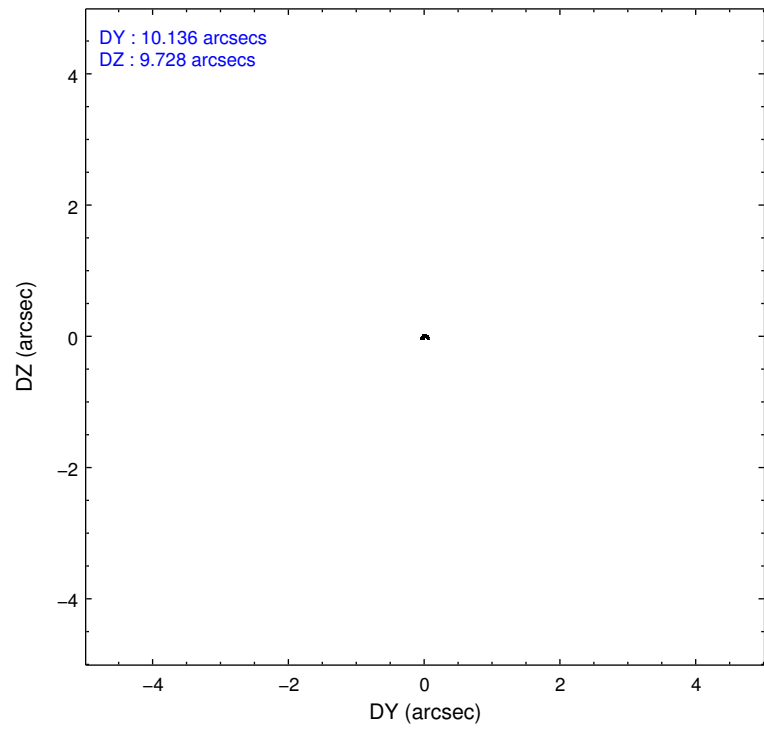
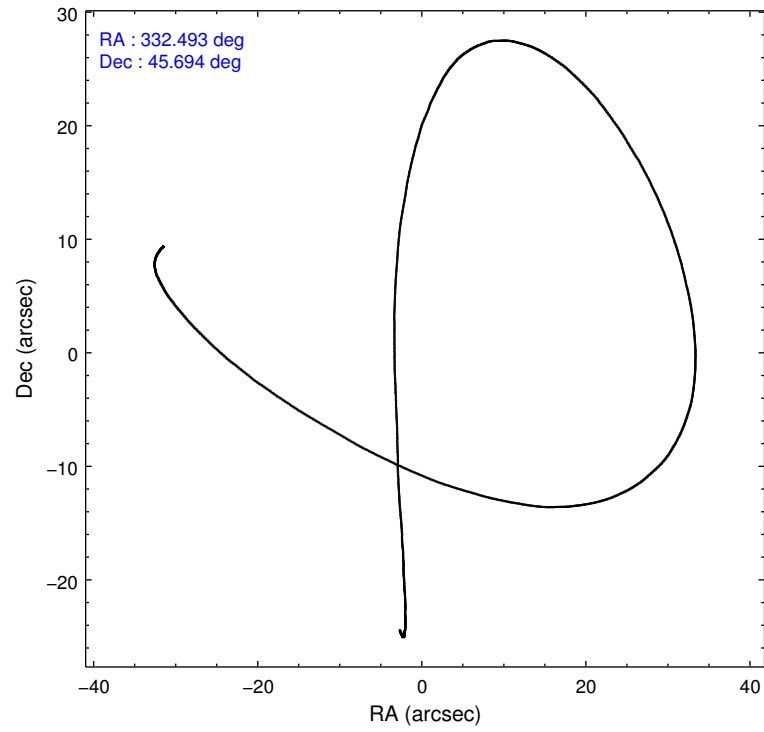
Level 1 Events

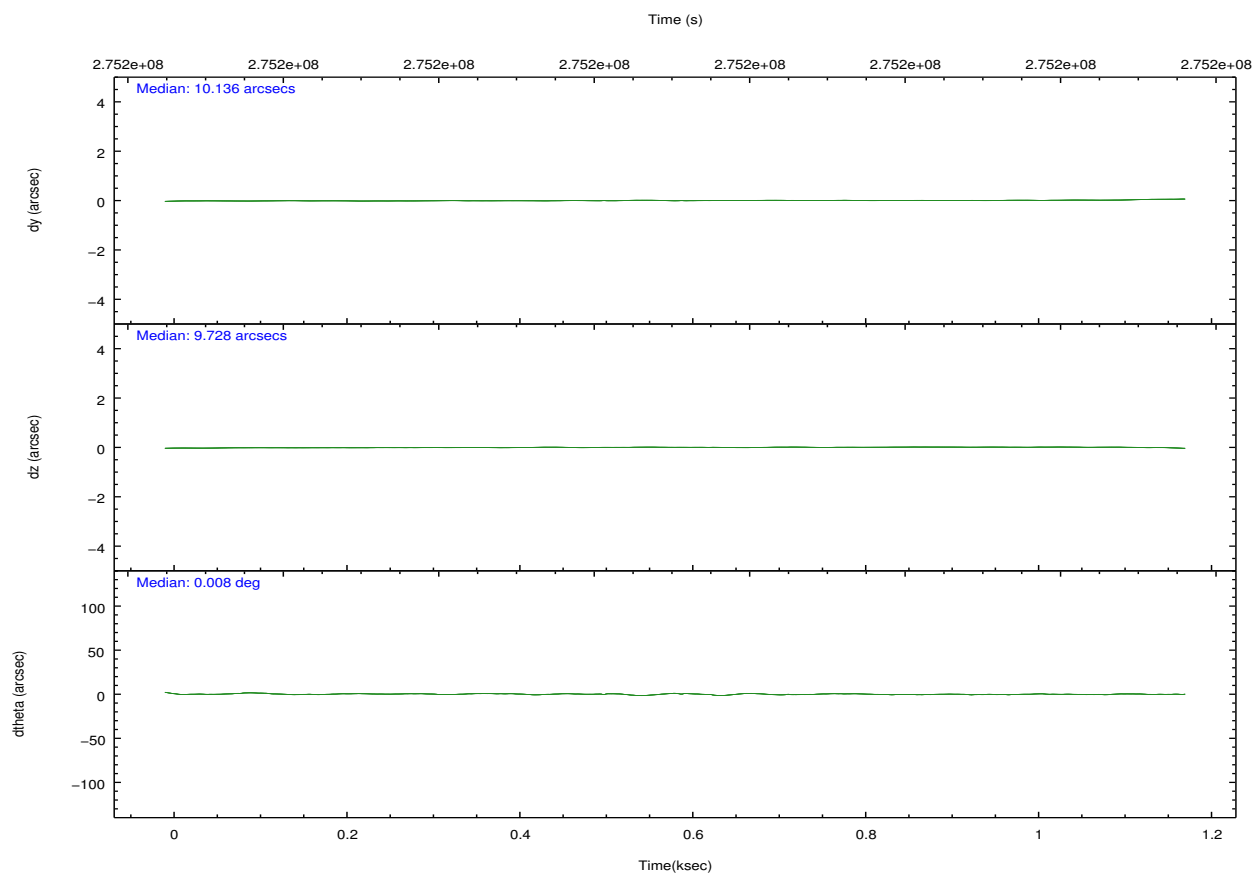
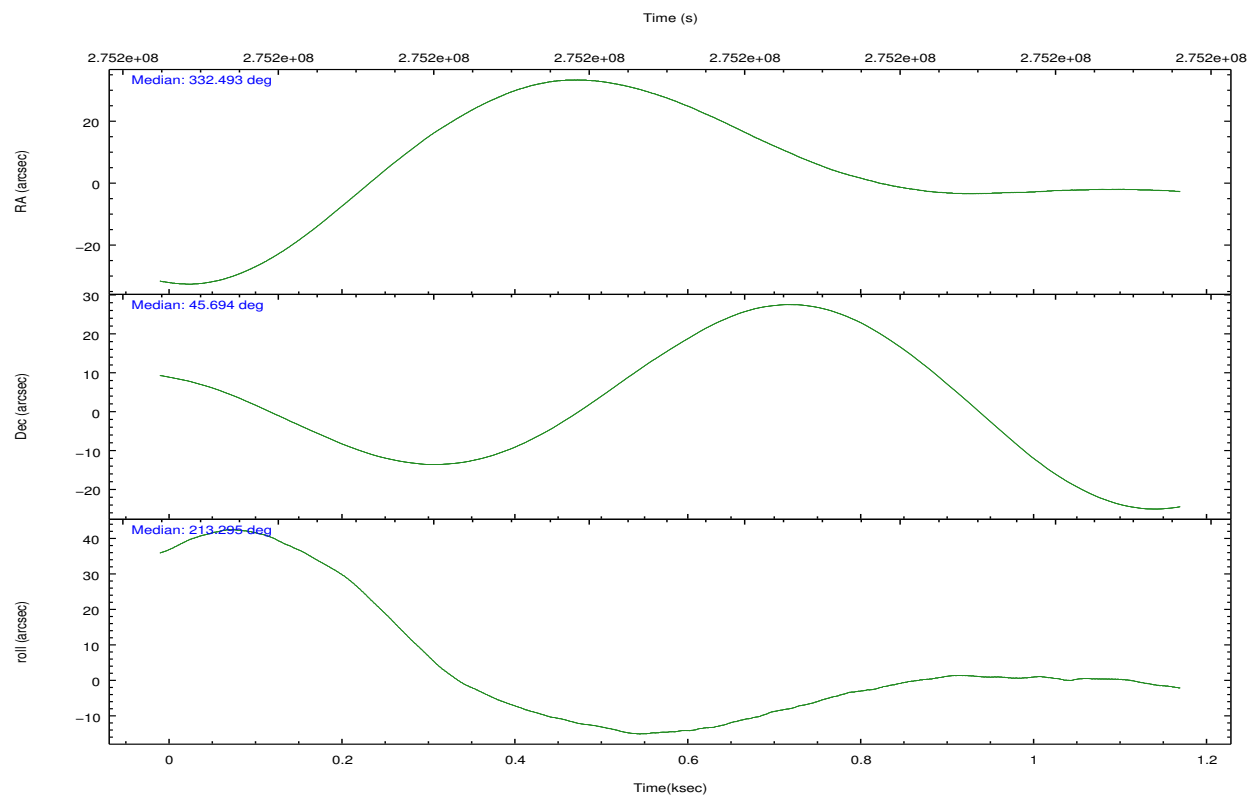
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 115973 |
| rejected events | 25248 |
| rejected % | 21% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-I | HRC-I | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 332.511594 | 332.4946159652955 | | | |
| [deg] Pointing Dec | 45.719066 | 45.6941423519468 | | | |
| [deg] Pointing Roll | 213.382027 | 213.2988629678747 | | | |
| [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) | 275197482.184000 | 275197106.32713 | | | |
| Observation start date | 2006-09-21T03:43:37 | 2006-09-21T03:38:26 | | | |
| [s] Observation end time (MET) | 275198482.184000 | 275198616.1522 | | | |
| Observation end date | 2006-09-21T04:00:17 | 2006-09-21T04:03:36 | | | |

2.3 Aspect



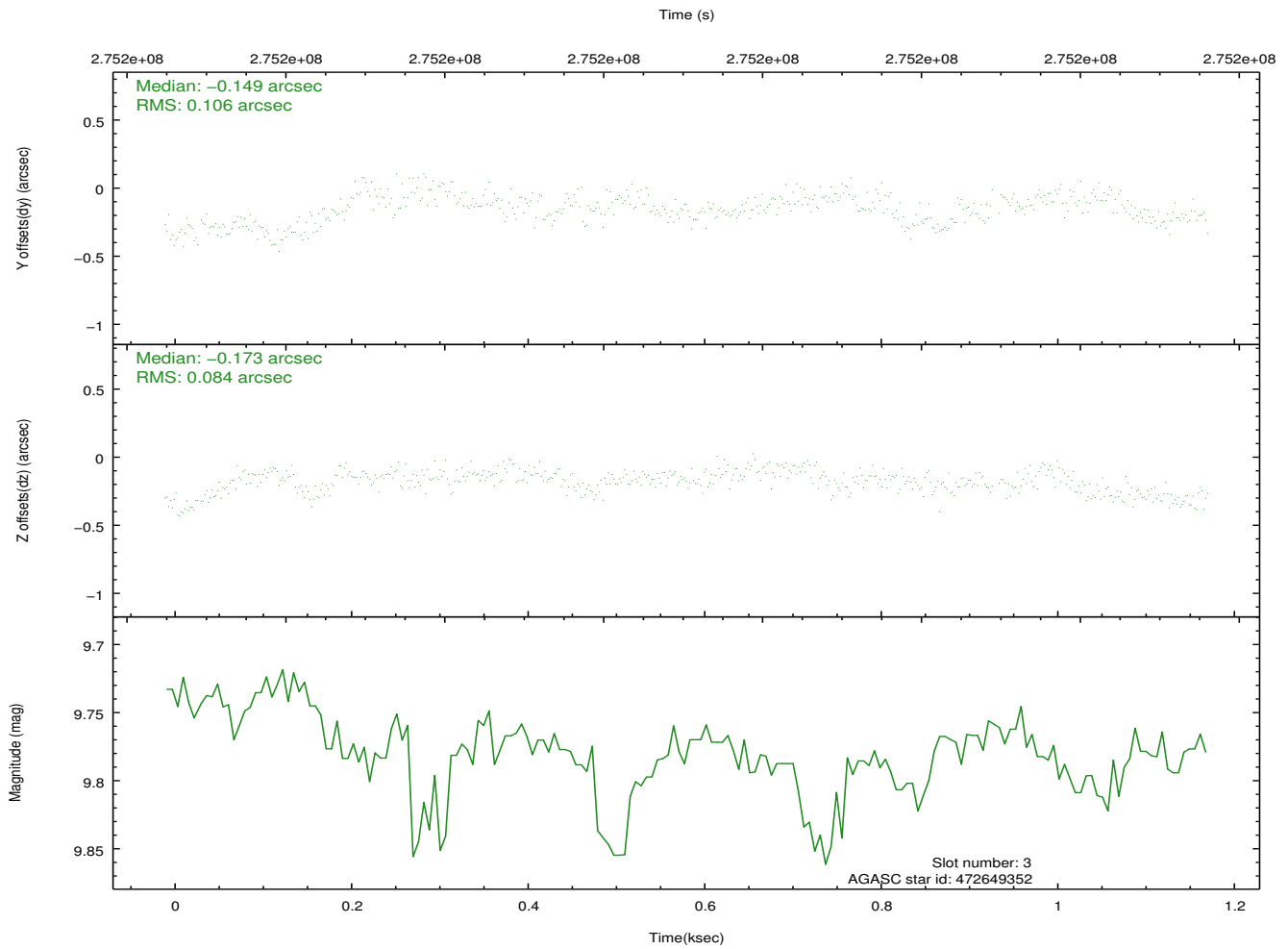
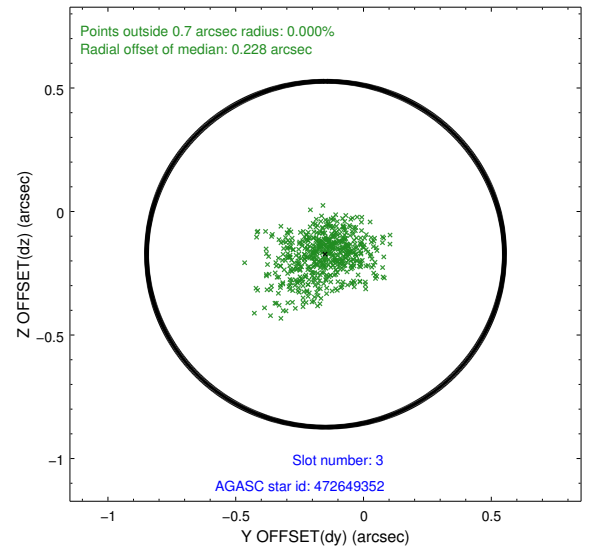
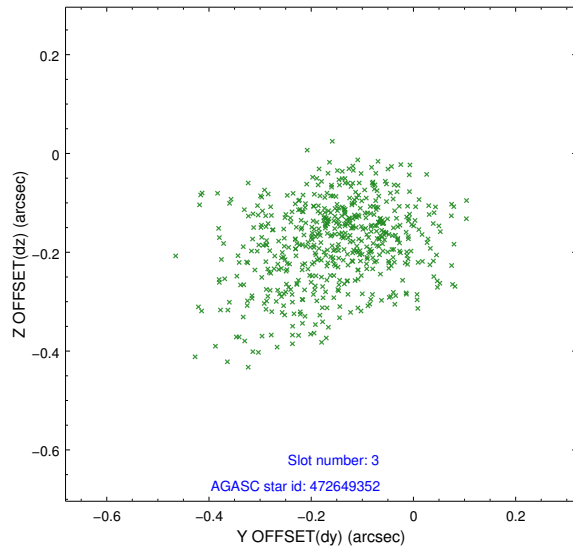


Slot Statistics

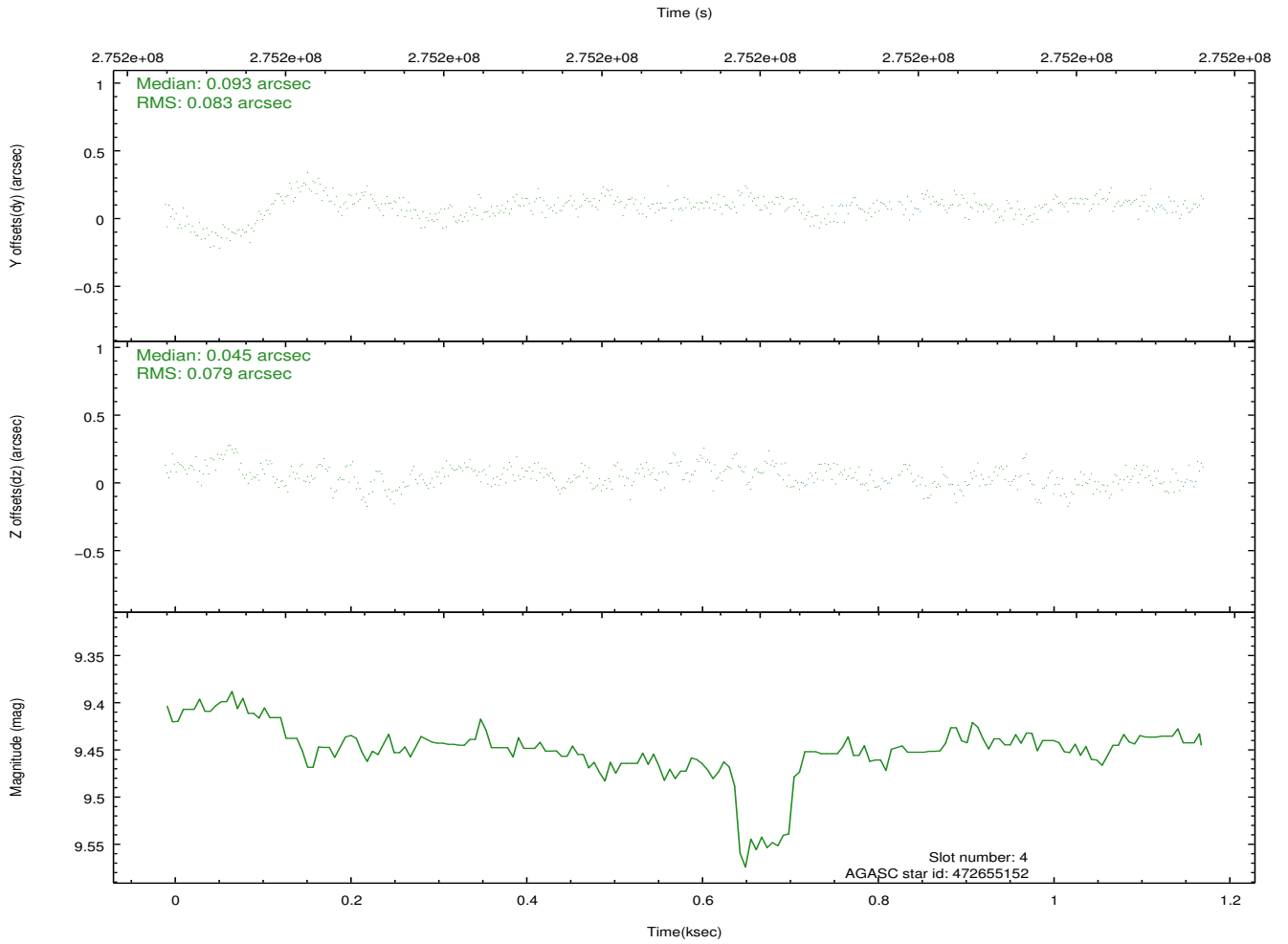
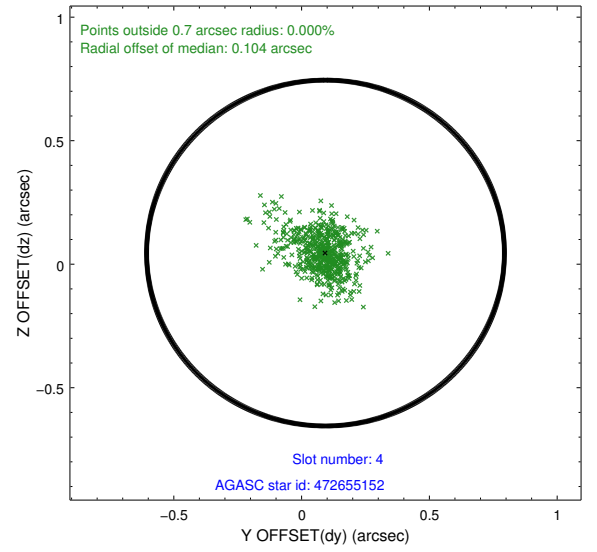
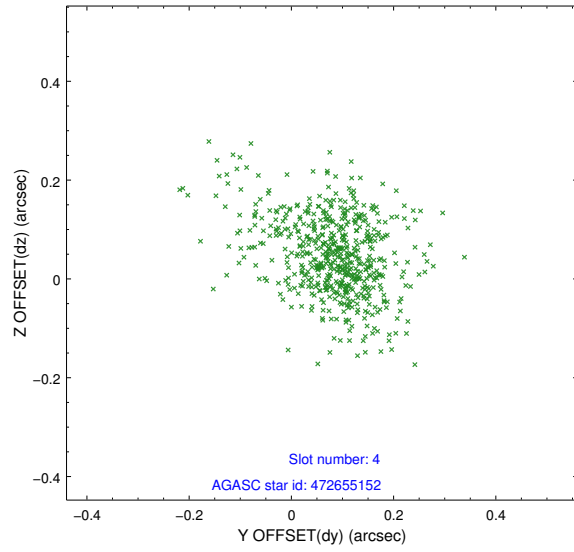
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.97 | 288 | -0.018 | 0.037 | 0.008 | 0.014 | 0.000000 | 0.000000 | -765.81 | -1297.62 |
| 1 | FID | HRC-I-2 | 7.01 | 288 | 0.108 | -0.058 | 0.007 | 0.011 | 0.000000 | 0.000000 | 844.29 | -1303.78 |
| 2 | FID | HRC-I-3 | 7.07 | 289 | 0.028 | -0.069 | 0.006 | 0.012 | 0.000000 | 0.000000 | -1191.35 | 1002.32 |
| 3 | GUIDE | 472649352 | 9.78 | 573 | -0.149 | -0.173 | 0.146 | 0.237 | 332.034169 | 45.325407 | 1785.62 | 514.75 |
| 4 | GUIDE | 472655152 | 9.45 | 574 | 0.093 | 0.045 | 0.114 | 0.212 | 332.504239 | 45.862991 | -267.61 | -442.44 |
| 5 | GUIDE | 472661712 | 10.00 | 577 | 0.010 | 0.078 | 0.155 | 0.257 | 331.914954 | 46.059715 | 565.27 | -1849.98 |
| 6 | GUIDE | 472665256 | 9.02 | 577 | 0.065 | -0.002 | 0.090 | 0.137 | 332.808125 | 46.195041 | -1560.61 | -1029.24 |
| 7 | GUIDE | 472654568 | 9.43 | 576 | -0.006 | 0.042 | 0.118 | 0.215 | 332.194449 | 45.063576 | 1967.12 | 1523.24 |

2.4 Star Slots

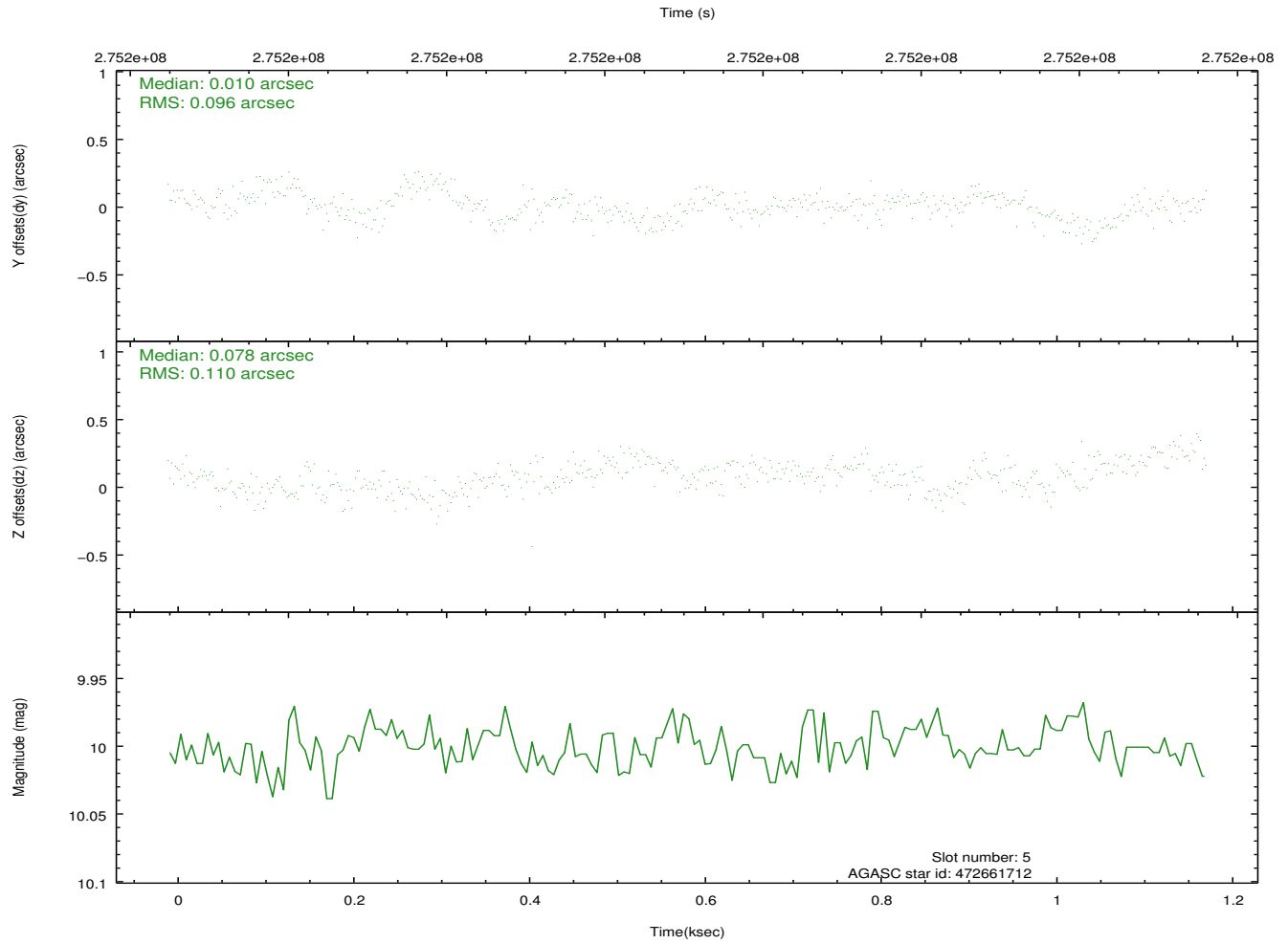
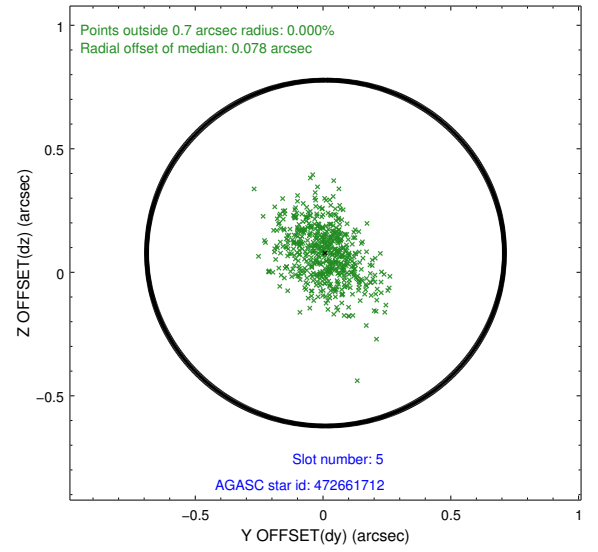
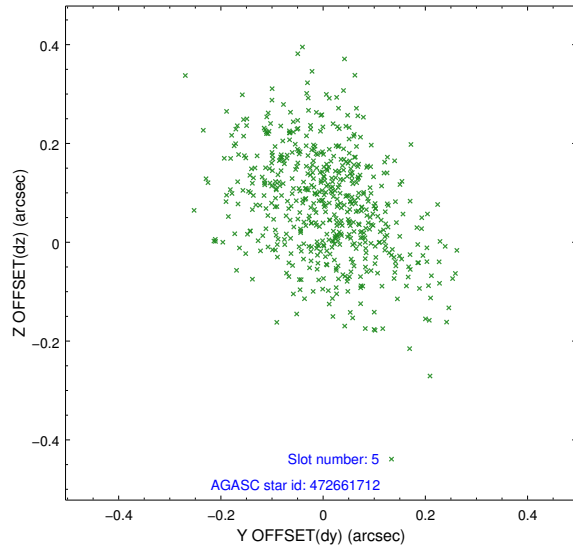
2.4.1 Slot 3



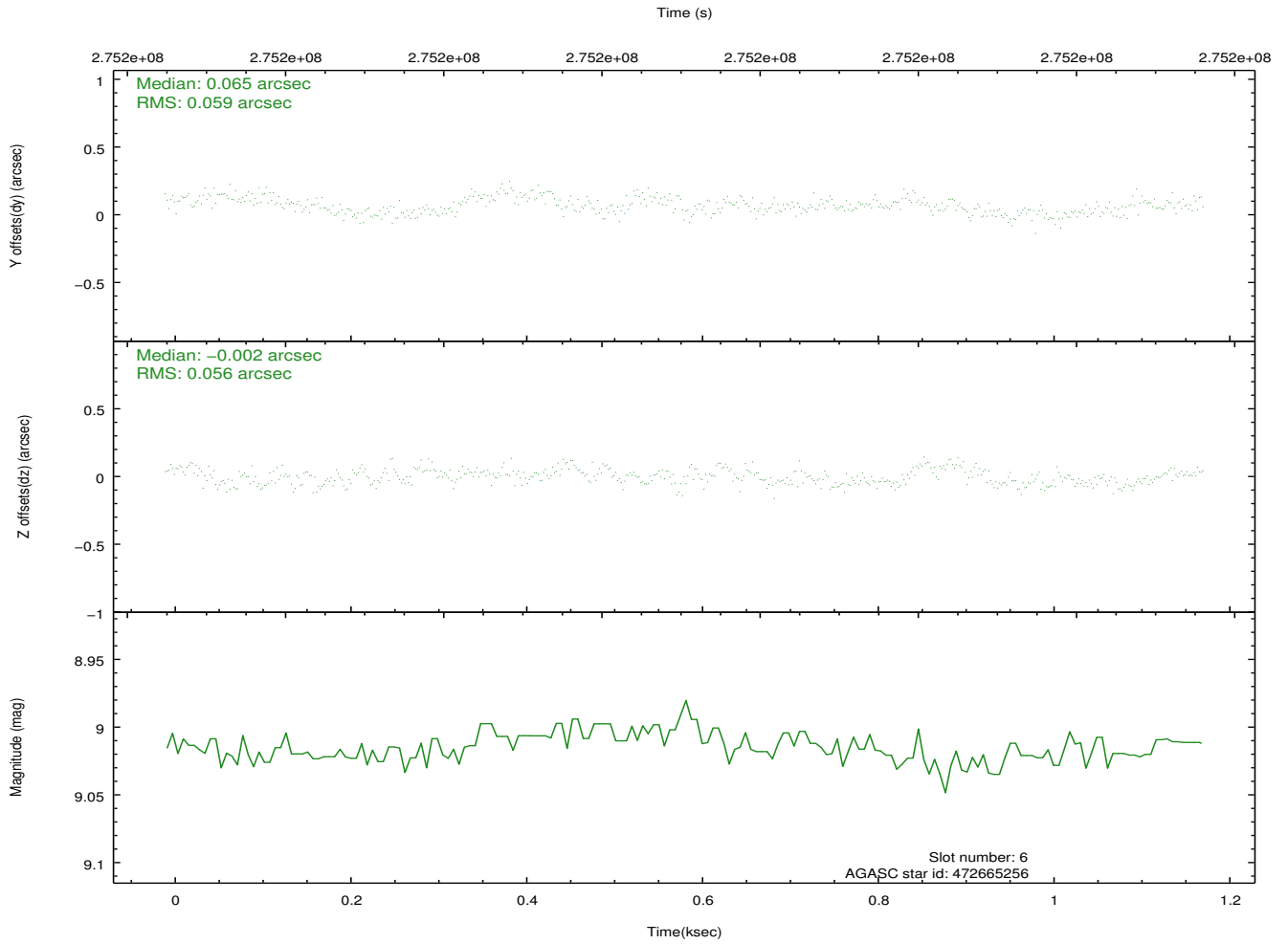
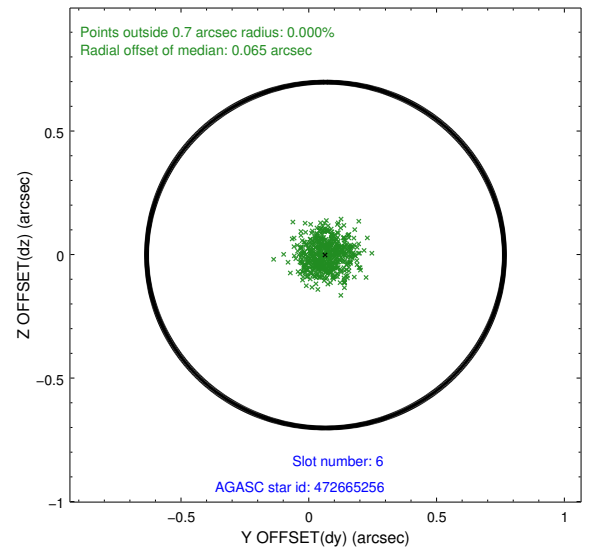
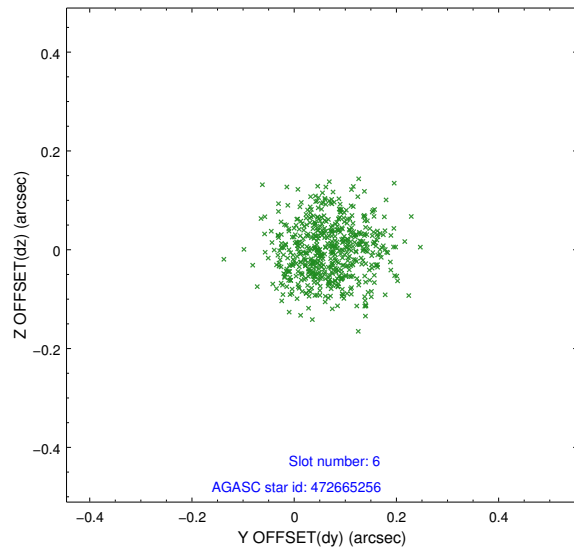
2.4.2 Slot 4



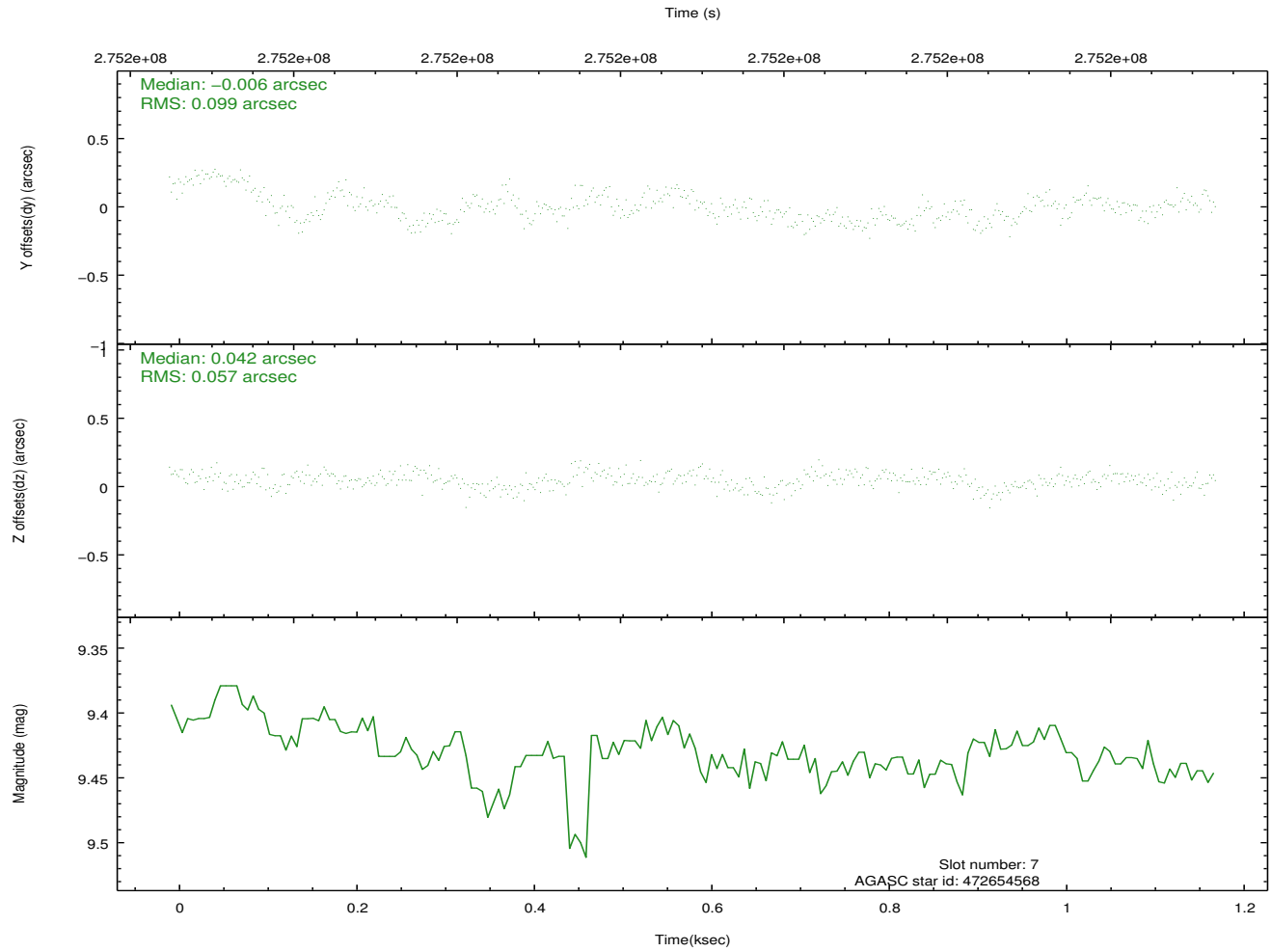
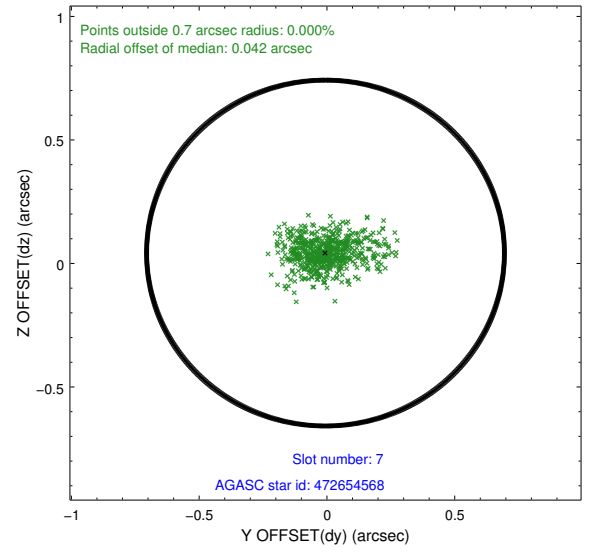
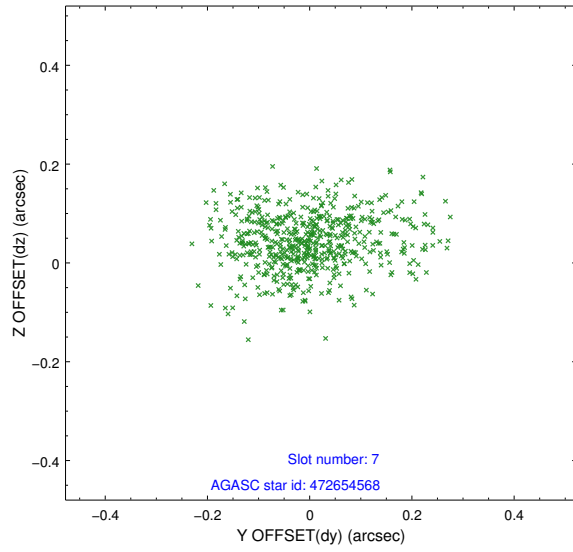
2.4.3 Slot 5



2.4.4 Slot 6

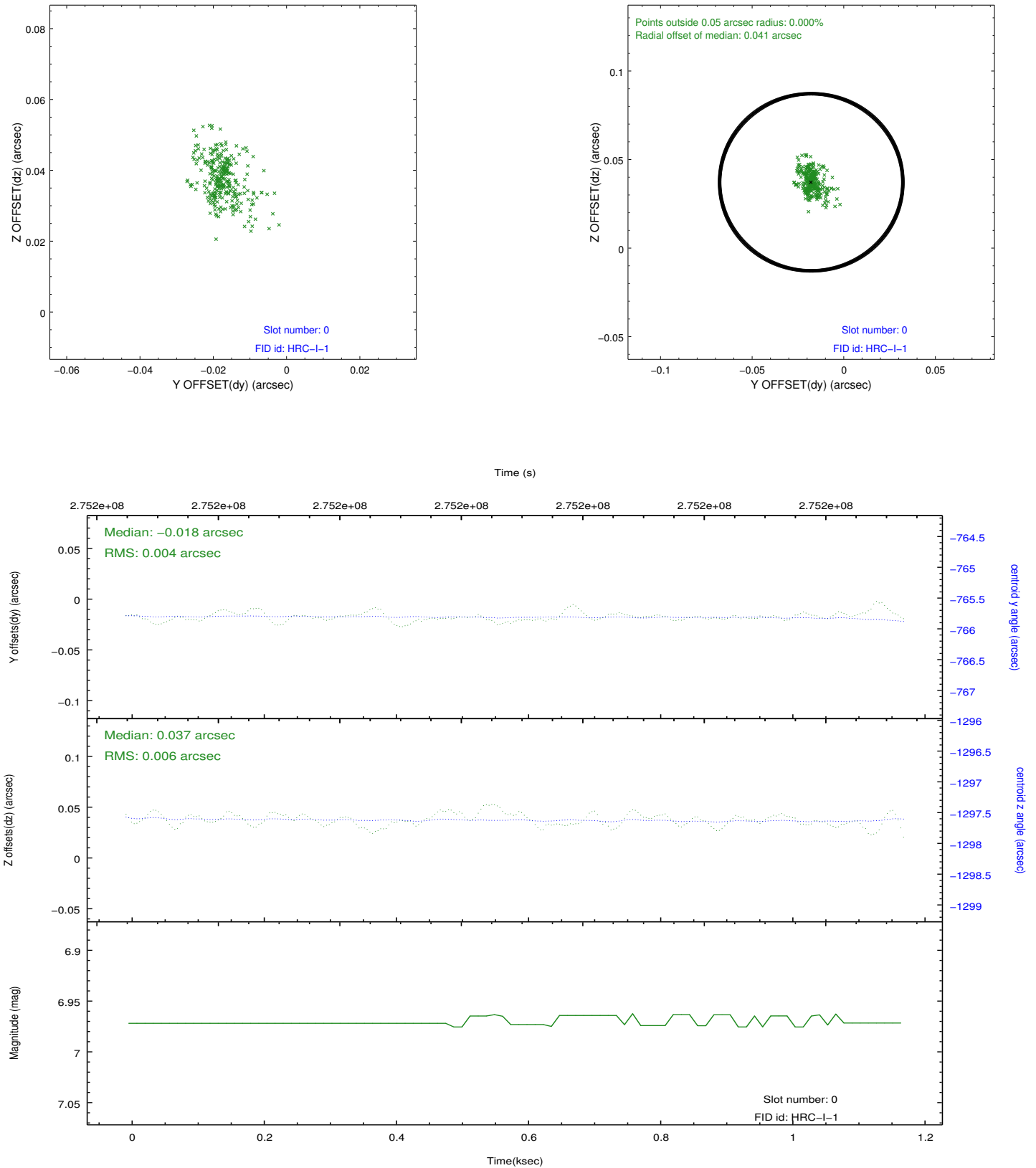


2.4.5 Slot 7

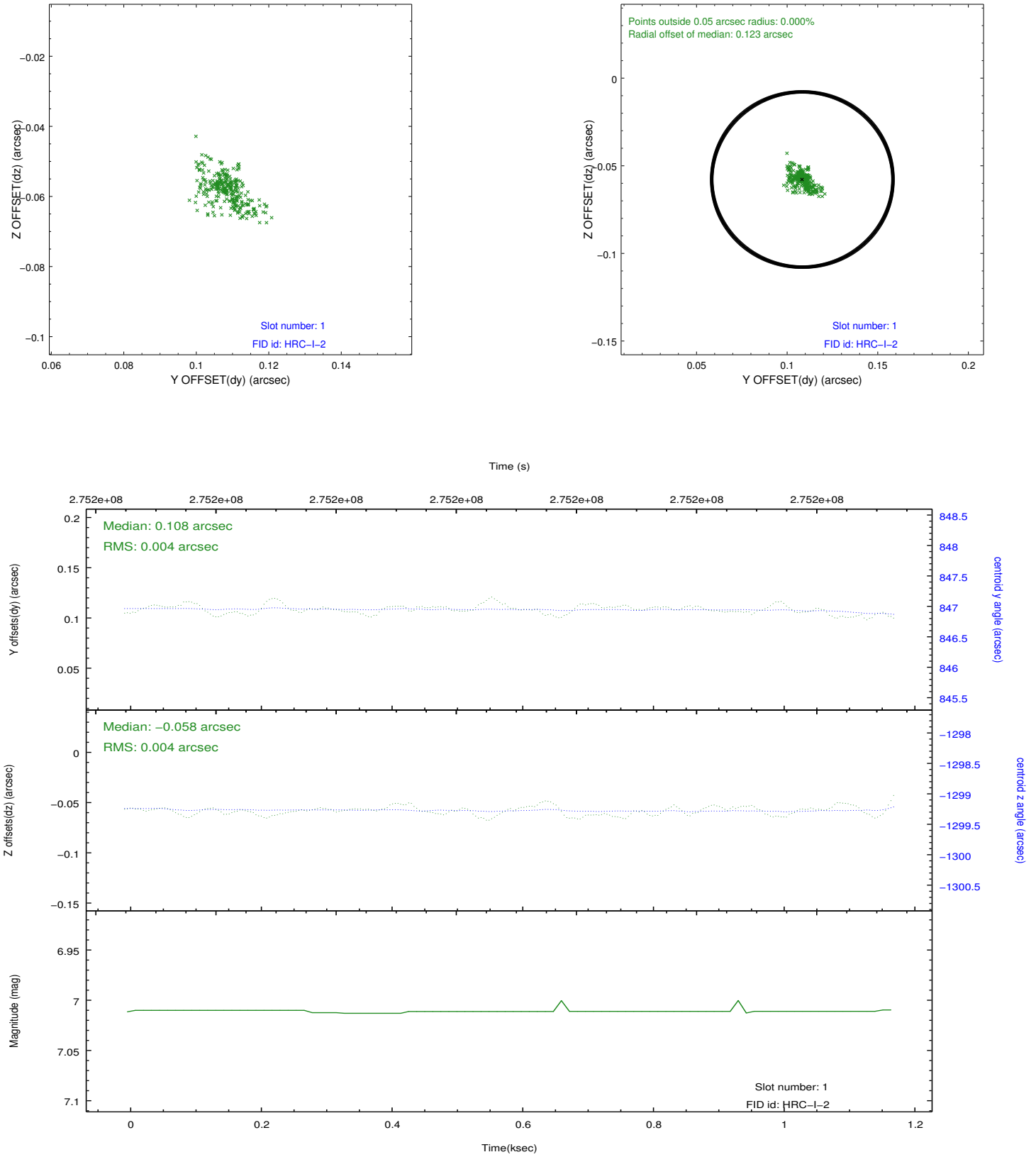


2.5 FID Slots

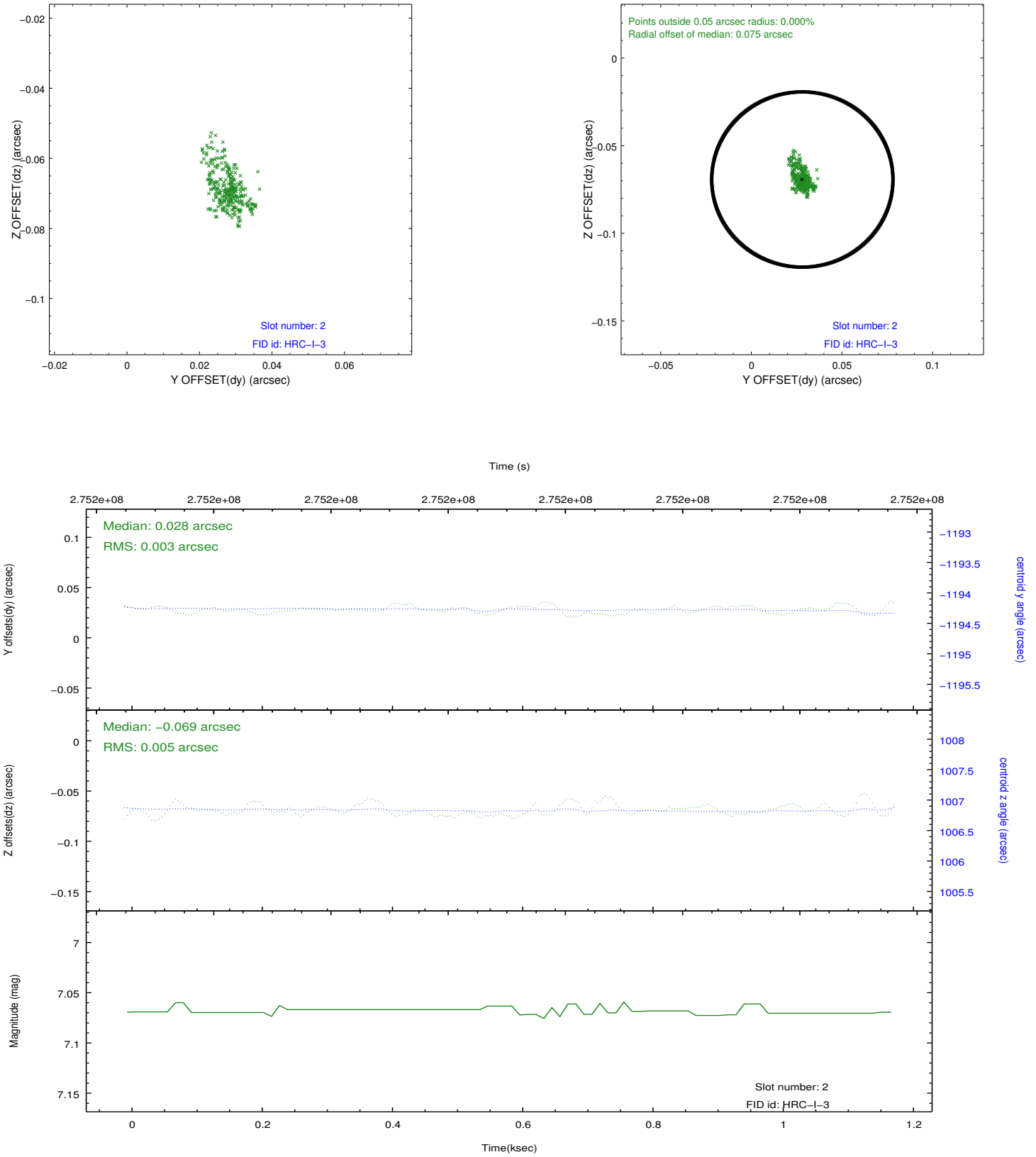
2.5.1 Slot 0



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) | 2012.08.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1800313 |

A.2 Comments

The target is away from the aim point of the chip and is therefore extended and asymmetric.