

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1410 - L2 Version 4
Chandra X-Ray Center

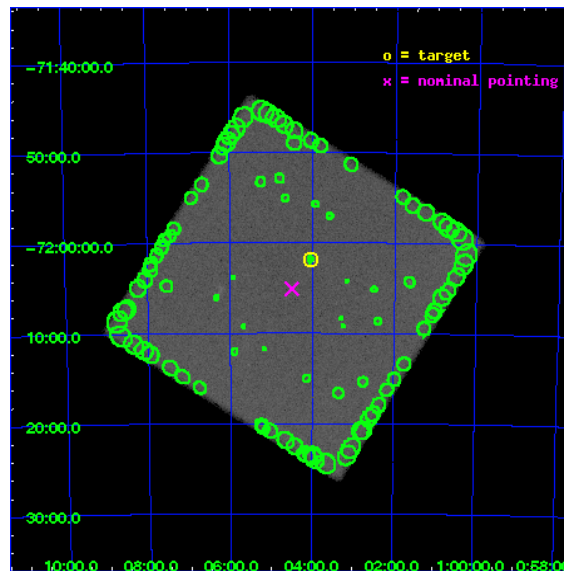
L2 Processing Date : Nov 20 2009

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1 Front

| | | |
|----------|------------------------------------------------|---------------------------------|
| seq_num | 580360 | Sequence number |
| obs_id | 1410 | Observation id |
| title | ACIS CHIP RESPONSE TO LINES WITH E=0.6-1.5 KEV | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | E0102-72.3 [HRC-I, Offsets=-2,2,0] | Source name |
| ra_targ | 16.01 | Observer's specified target RA |
| dec_targ | -72.032028 | Observer's specified target Dec |
| ra_nom | 16.12348508674 | Nominal RA |
| dec_nom | -72.084980319233 | Nominal Dec |
| roll_nom | 346.78592140512 | Nominal Roll |
| revision | 4 | Processing version of data |
| ontime | 20269.631980971 | [s] |
| livetime | 20114.598303559 | Ontime multiplied by DTCOR |
| l2events | 781151 | Number of level 2 events |

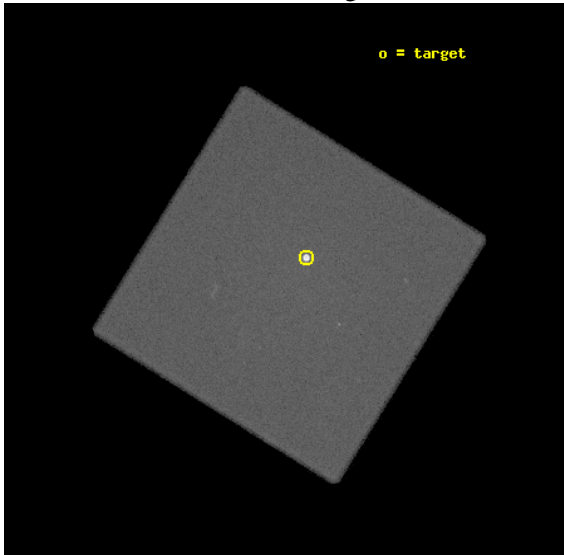


2 OBI

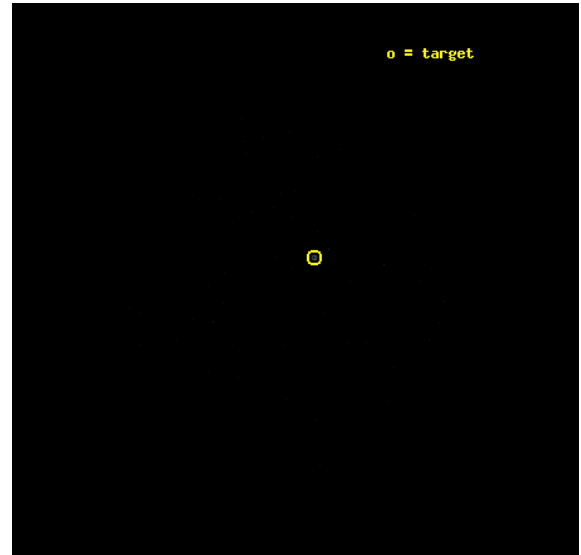
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-------------------------------------|
| obi_num | 0 | Obi number | sched_exp_time | 20000.000000 | Scheduled observation exposure time |
| ascdsver | 8.1.1 | Processing system revision | ontime | 20269.631980971 | [s] |
| caldbver | 4.1.4 | | ll events | 1157369 | Number of level 1 events |
| date | 2009-11-20T14:18:49 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

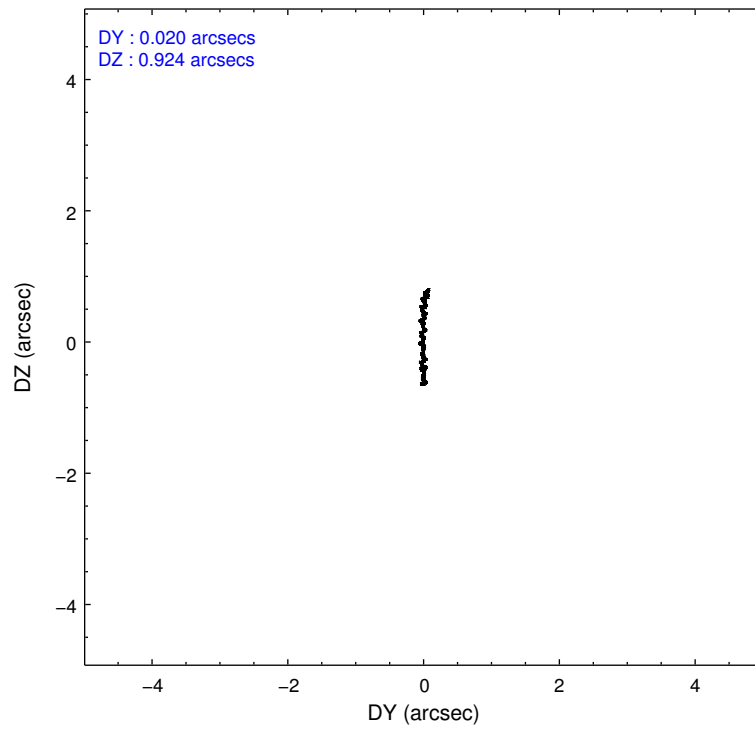
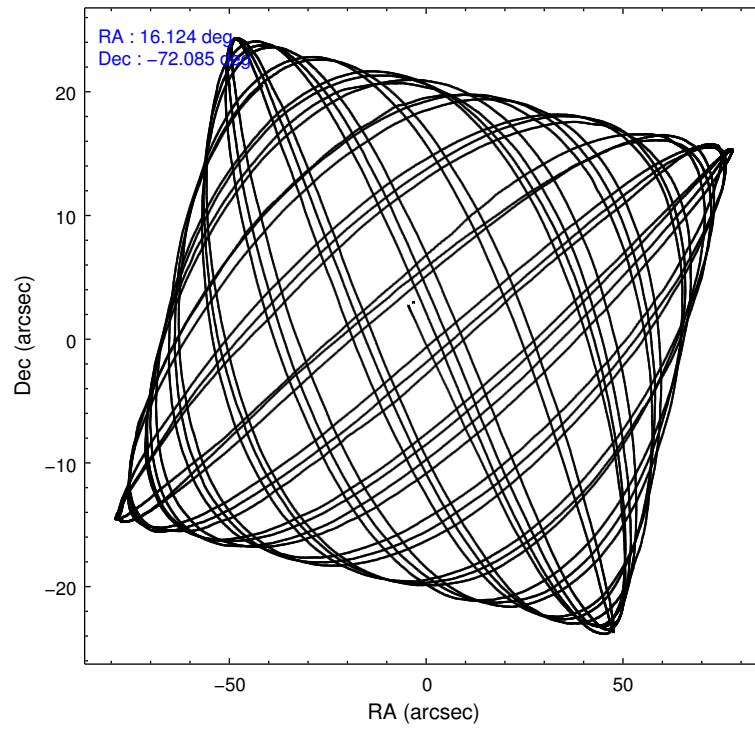
Level 1 Events

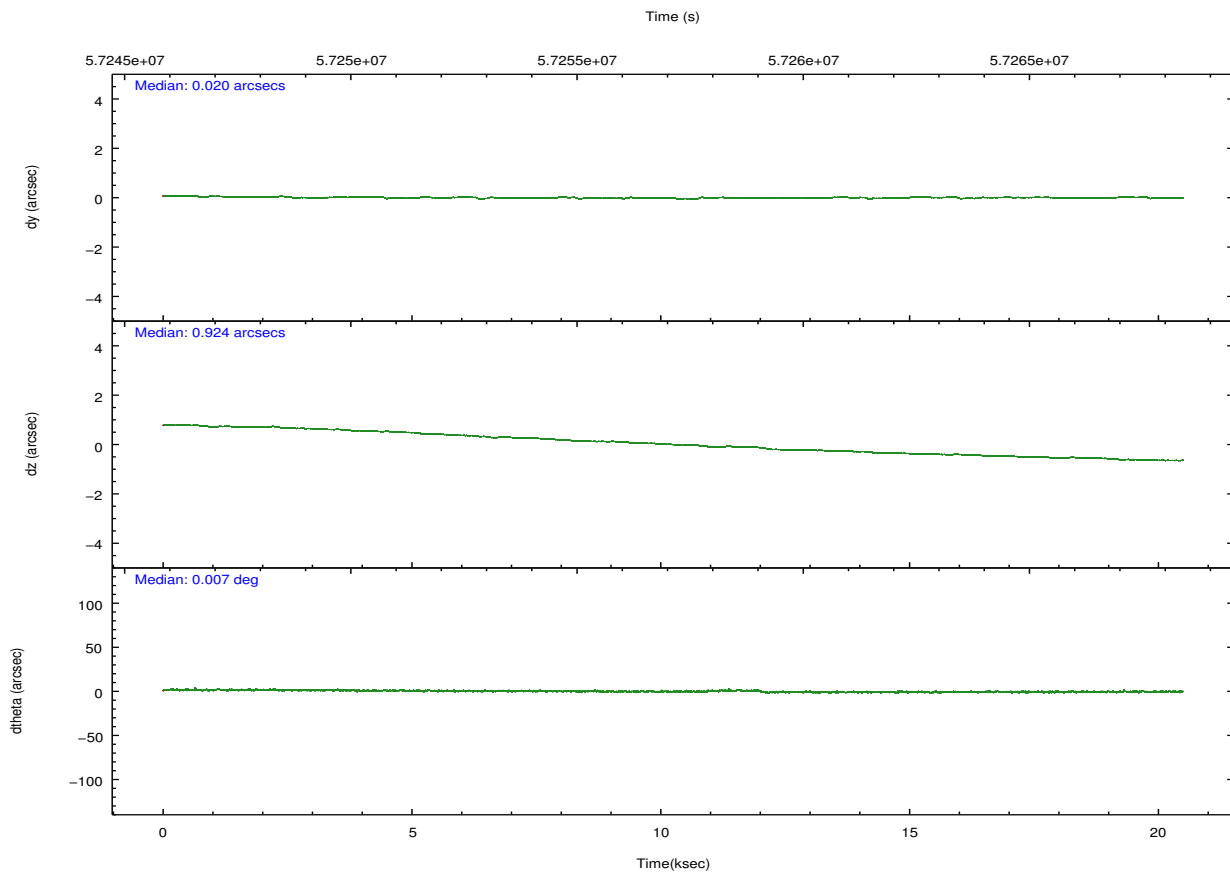
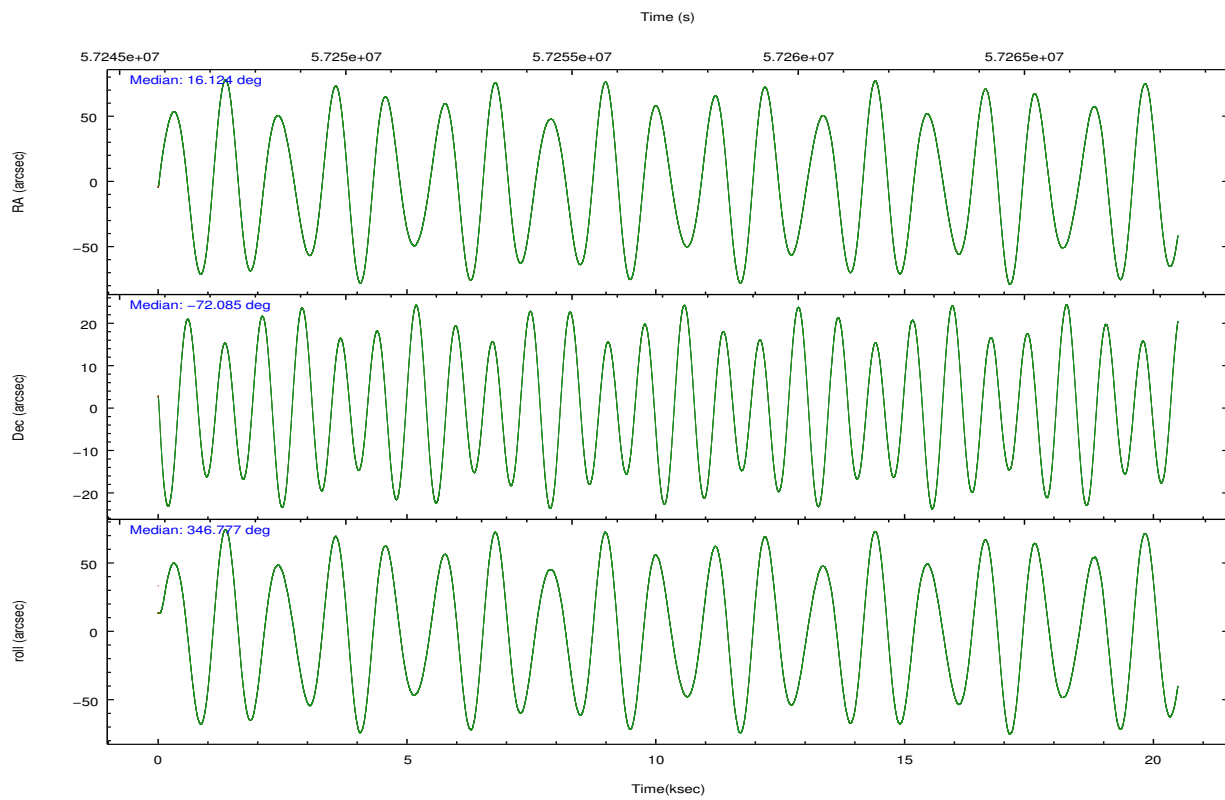
| | segment 0 |
|-----------------|----------------------|
| level 1 events | 1157369 |
| rejected events | 2753 |
| rejected % | 0% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|------------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 6 | 6 |
| 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 | | | |
| Pointing RA | 16.038063 | 16.12348508674005 | | | |
| Pointing Dec | -72.092959 | -72.08498031923297 | | | |
| Pointing Roll | 346.800118 | 346.7859214051164 | | | |
| Window start time | 49852864.184000 | 49852864.184000 | | | |
| Window stop time | 55036864.184000 | 55036864.184000 | | | |
| SIM focus pos (mm) | -1.040293 | -1.038866356238299 | | | |
| SIM defocus (mm) | 0 | 0.001426264420575141 | | | |
| SIM translation stage pos (mm) | 126.985494 | 126.9854943052878 | | | |
| SIM translation stage offset (mm) | 0 | -5.413686238853188e-06 | | | |
| Observation start time | 57247369.184000 | 57245937.674725 | | | |
| Observation start date | 1999-10-25T14:01:45 | 1999-10-25T13:38:57 | | | |
| Observation end time | 57267369.184000 | 57267960.825519 | | | |
| Observation end date | 1999-10-25T19:35:05 | 1999-10-25T19:46:00 | | | |

2.3 Aspect



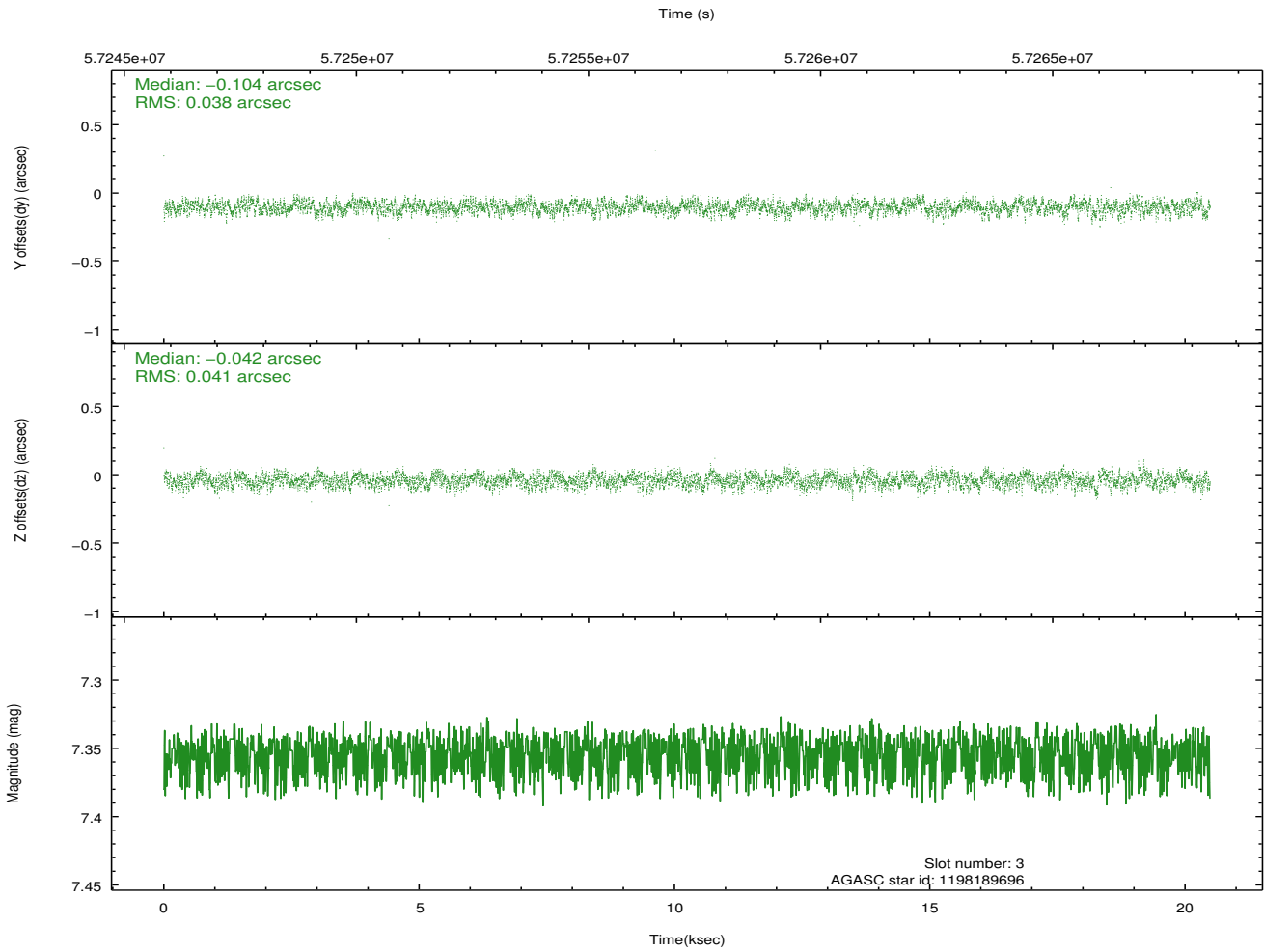
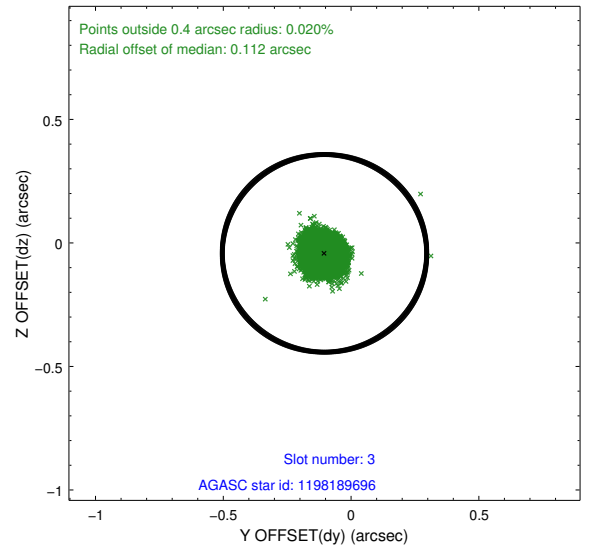
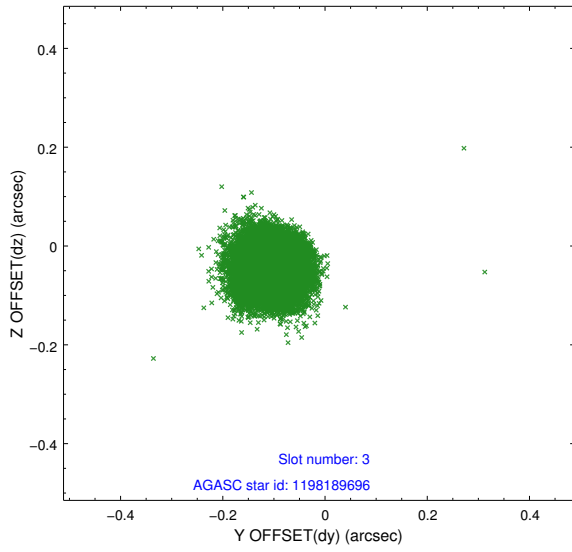


Slot Statistics

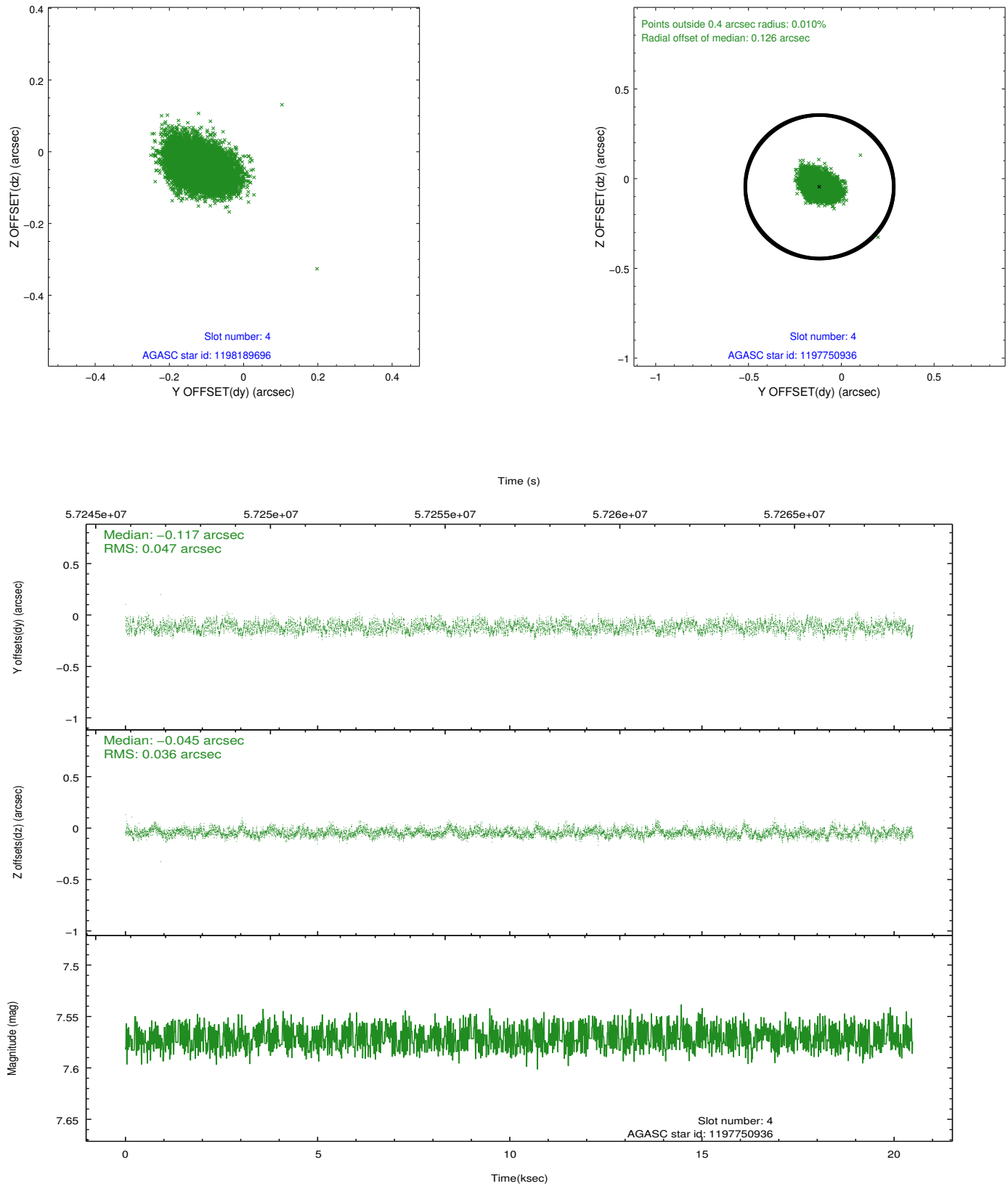
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | HRC-I-1 | 6.97 | 9996 | 0.011 | -0.062 | 0.029 | 0.040 | 0.000000 | 0.000000 | -755.36 | -1288.76 |
| 1 | FID | HRC-I-3 | 7.06 | 9994 | 0.047 | -0.026 | 0.032 | 0.042 | 0.000000 | 0.000000 | -1183.97 | 1015.68 |
| 2 | FID | HRC-I-4 | 7.00 | 9995 | 0.056 | -0.001 | 0.009 | 0.016 | 0.000000 | 0.000000 | 1287.28 | 1013.63 |
| 3 | GUIDE | 1198189696 | 7.35 | 9993 | -0.104 | -0.042 | 0.060 | 0.091 | 15.223750 | -72.697522 | -350.54 | -2323.29 |
| 4 | GUIDE | 1197750936 | 7.57 | 9993 | -0.117 | -0.045 | 0.063 | 0.101 | 15.387940 | -71.549550 | -1167.65 | 1731.69 |
| 5 | GUIDE | 1197884536 | 8.49 | 9990 | 0.042 | 0.019 | 0.059 | 0.097 | 17.160729 | -71.835289 | 1016.95 | 1180.29 |
| 6 | GUIDE | 1197884712 | 8.30 | 9992 | 0.074 | -0.035 | 0.056 | 0.093 | 16.087398 | -72.252690 | 184.01 | -546.82 |
| 7 | GUIDE | 1197750640 | 9.76 | 9946 | 0.105 | 0.105 | 0.102 | 0.172 | 15.758835 | -72.088048 | -305.04 | -53.59 |

2.4 Star Slots

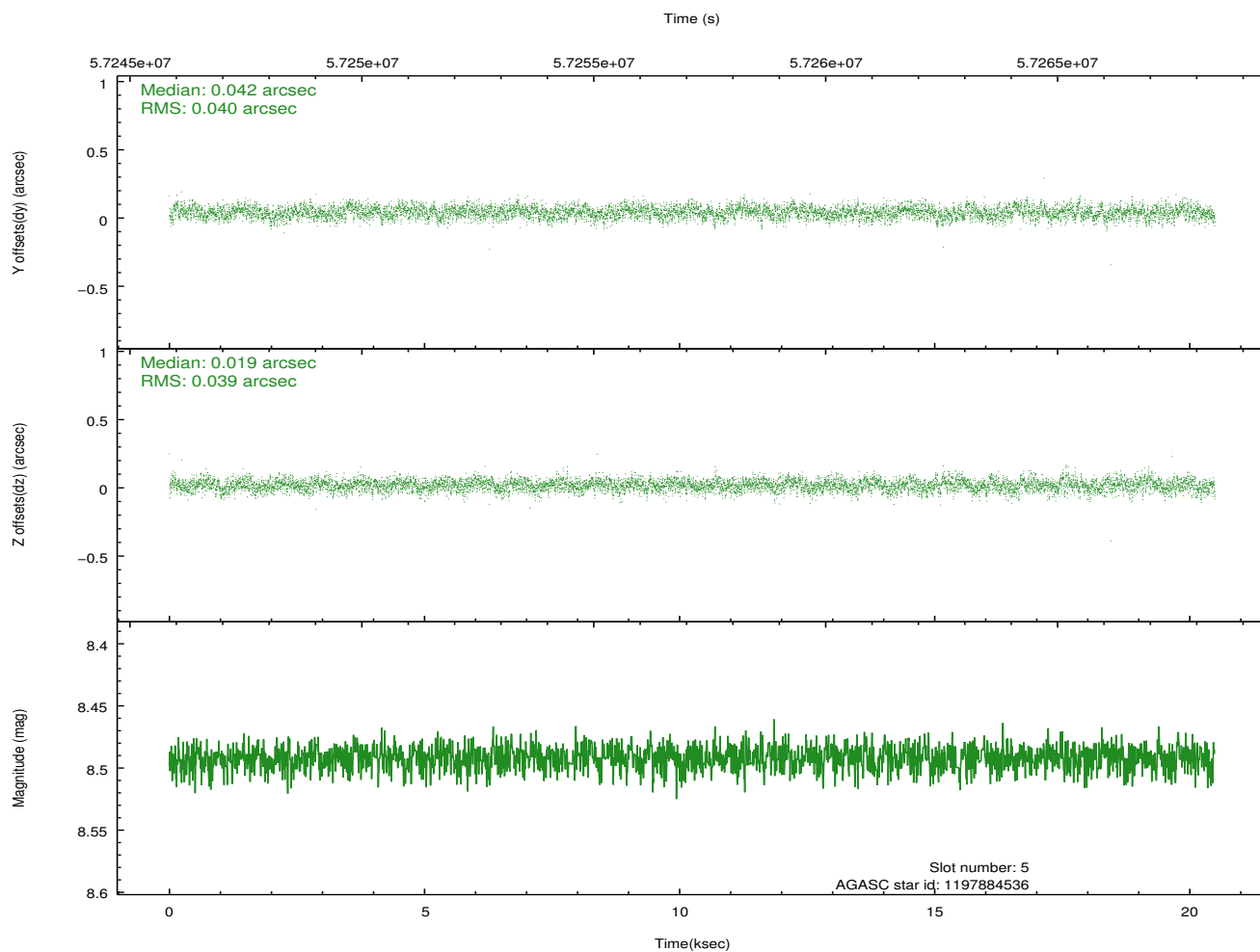
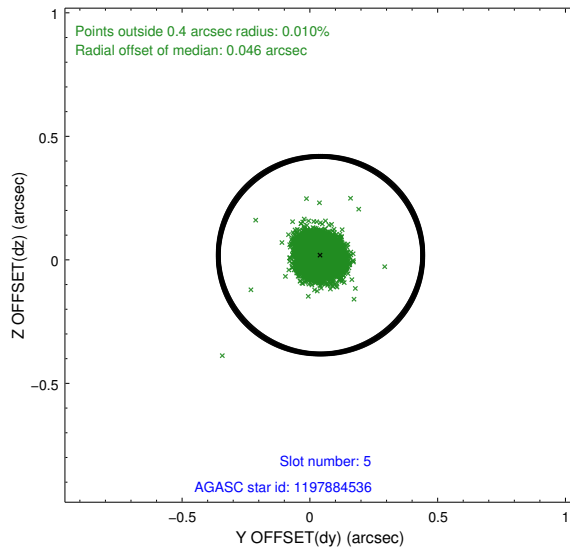
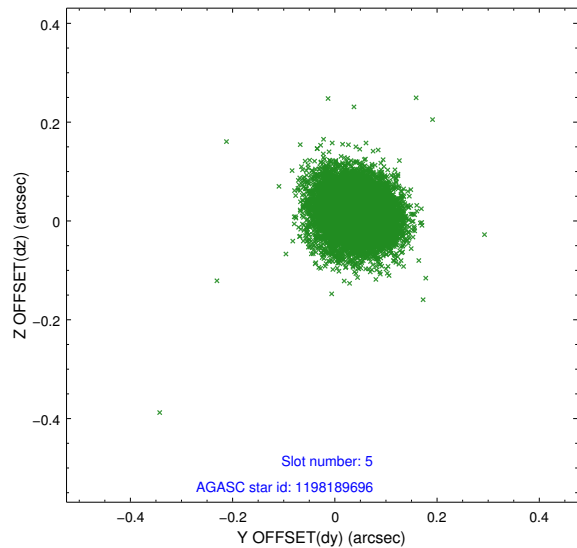
2.4.1 Slot 3



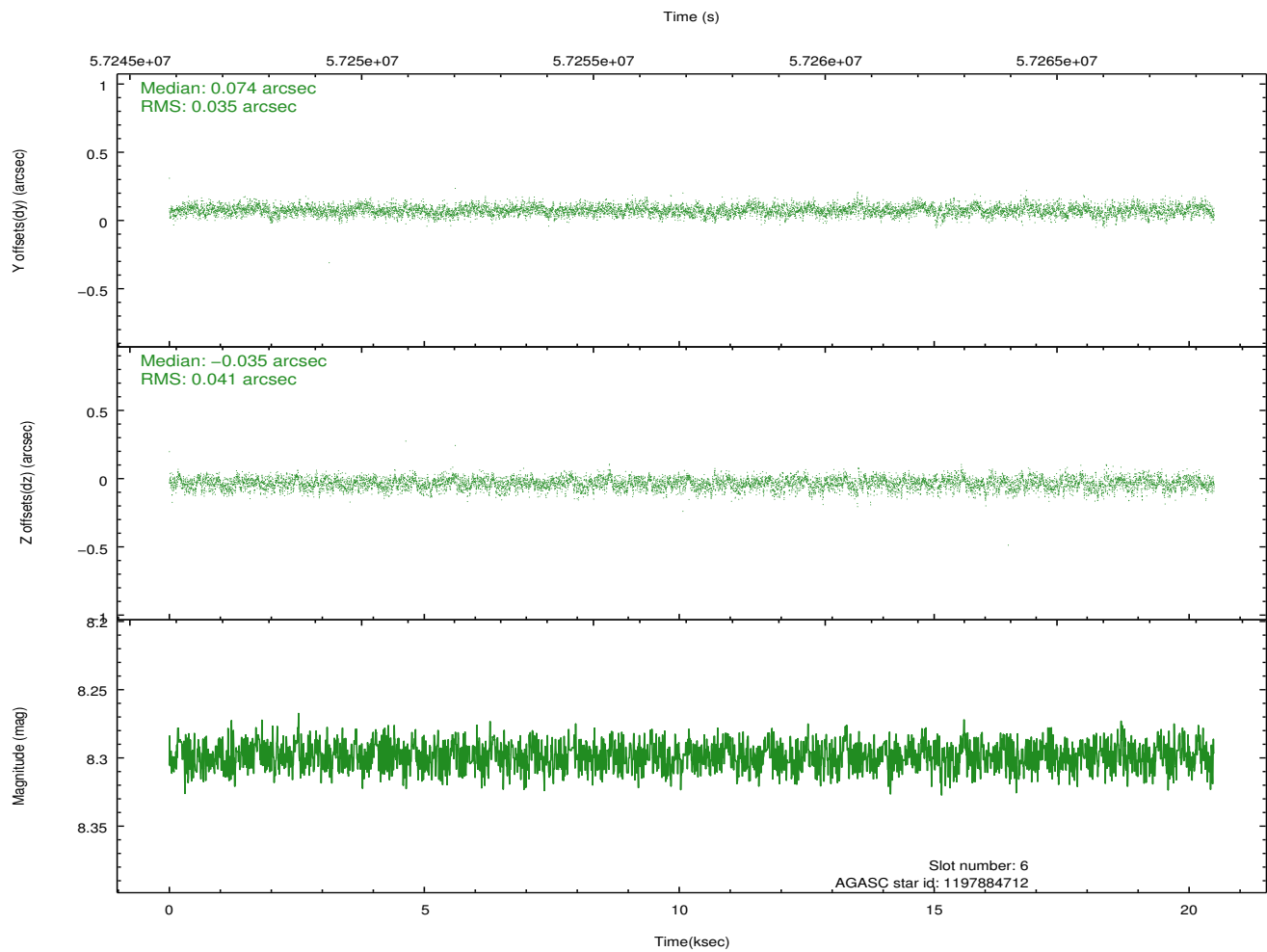
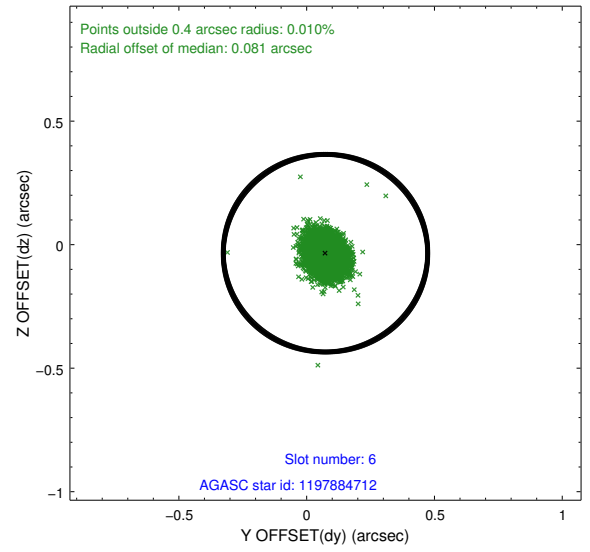
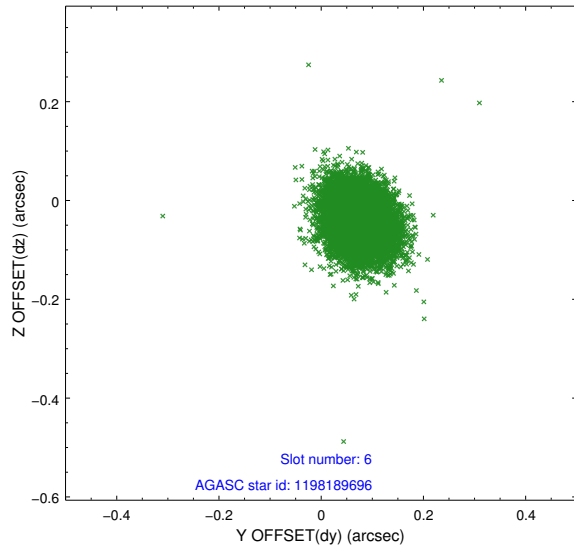
2.4.2 Slot 4



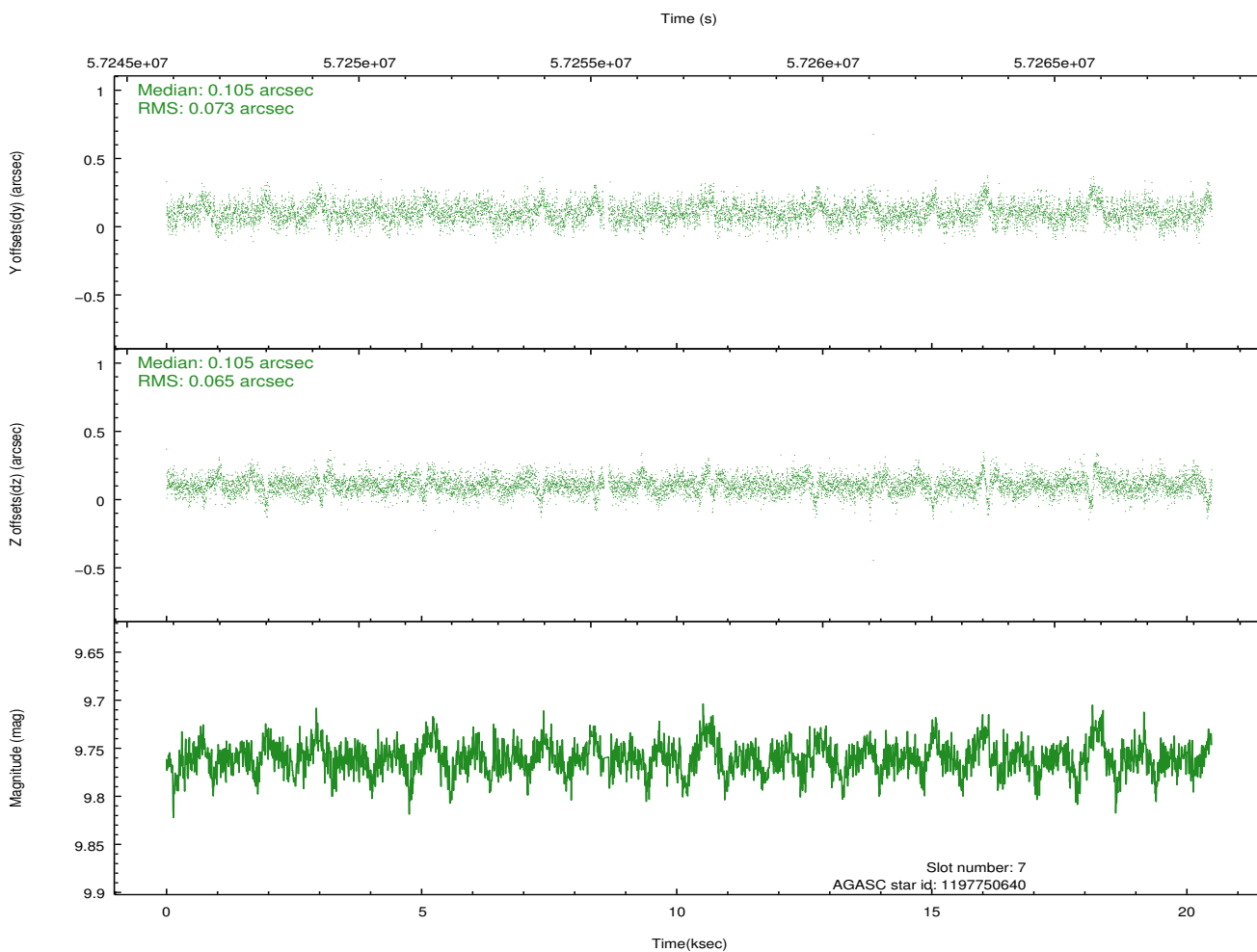
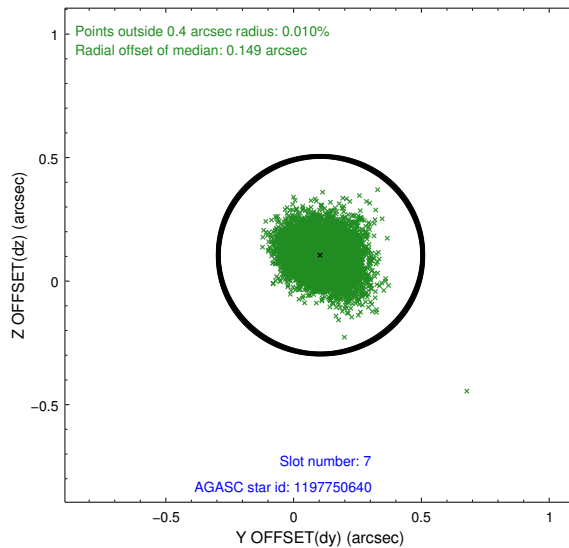
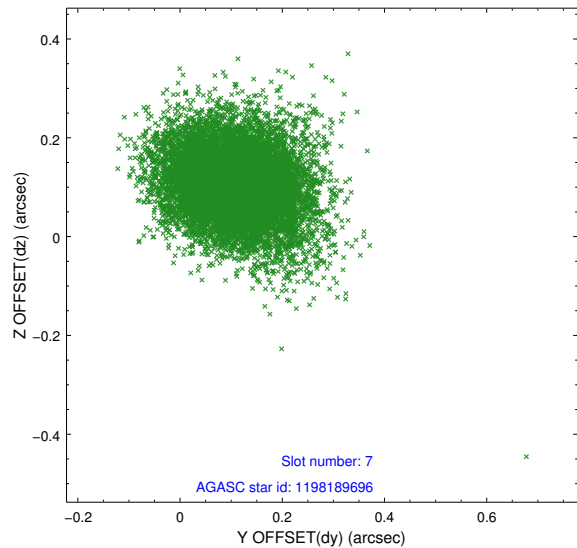
2.4.3 Slot 5



2.4.4 Slot 6

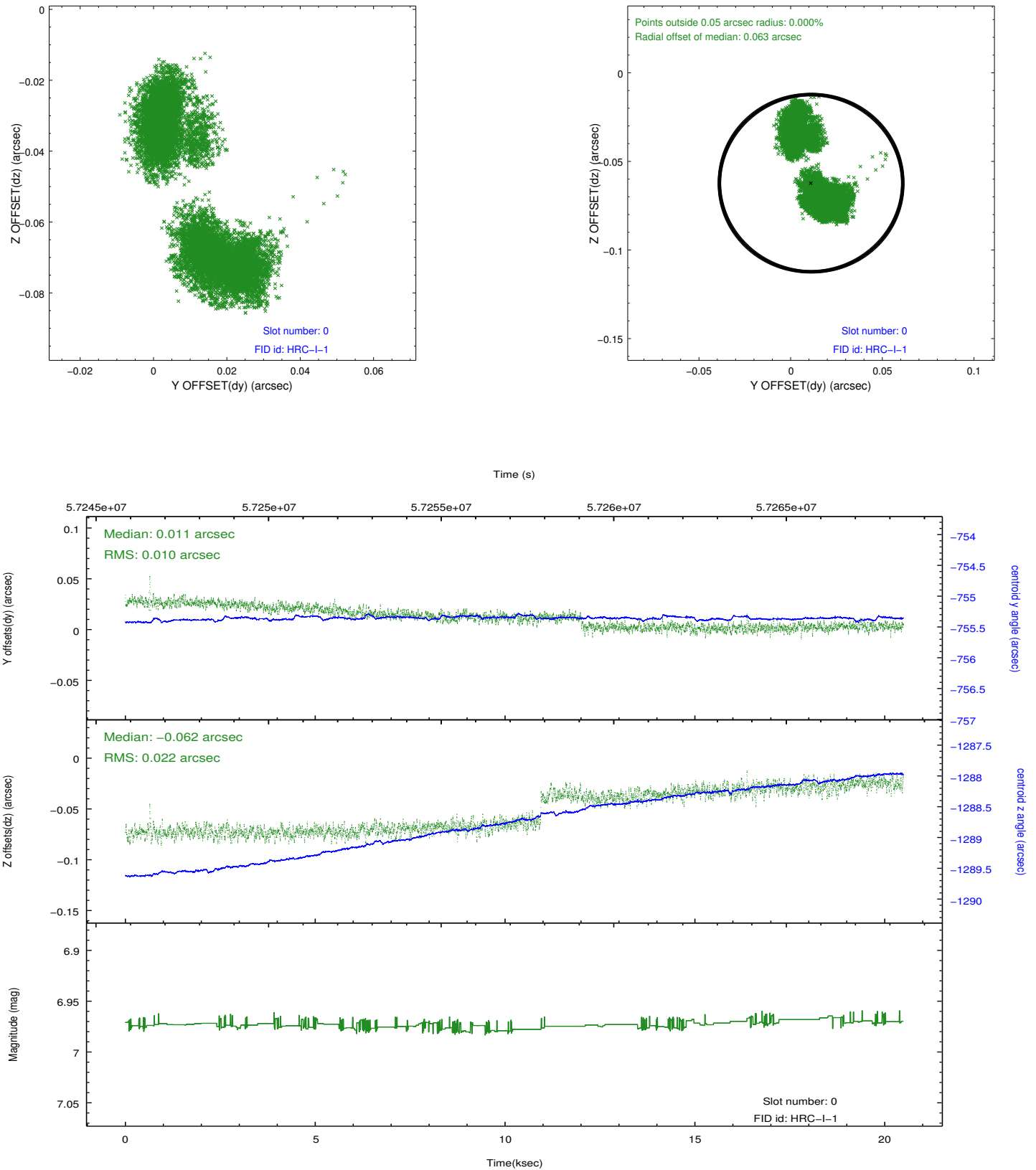


2.4.5 Slot 7

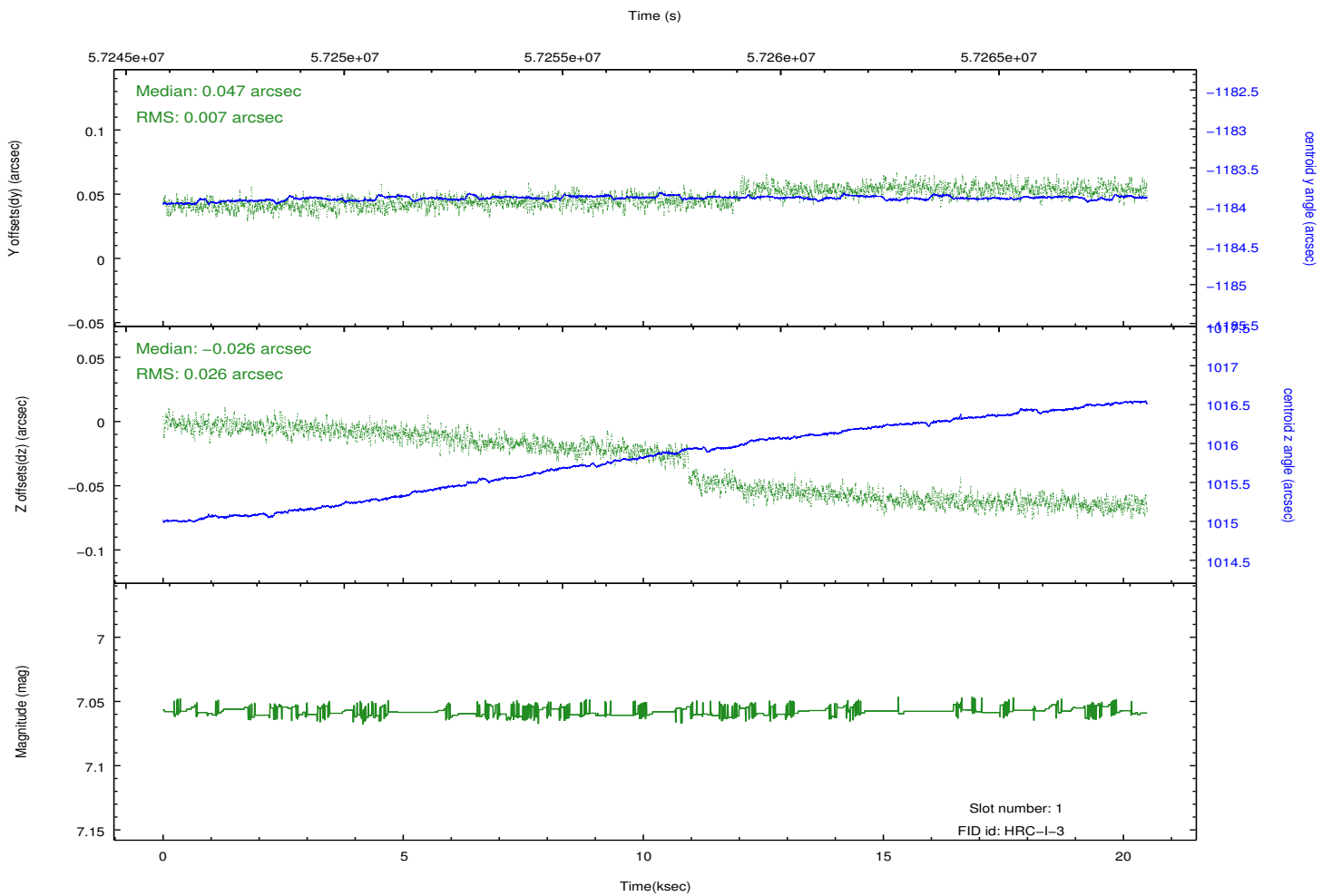
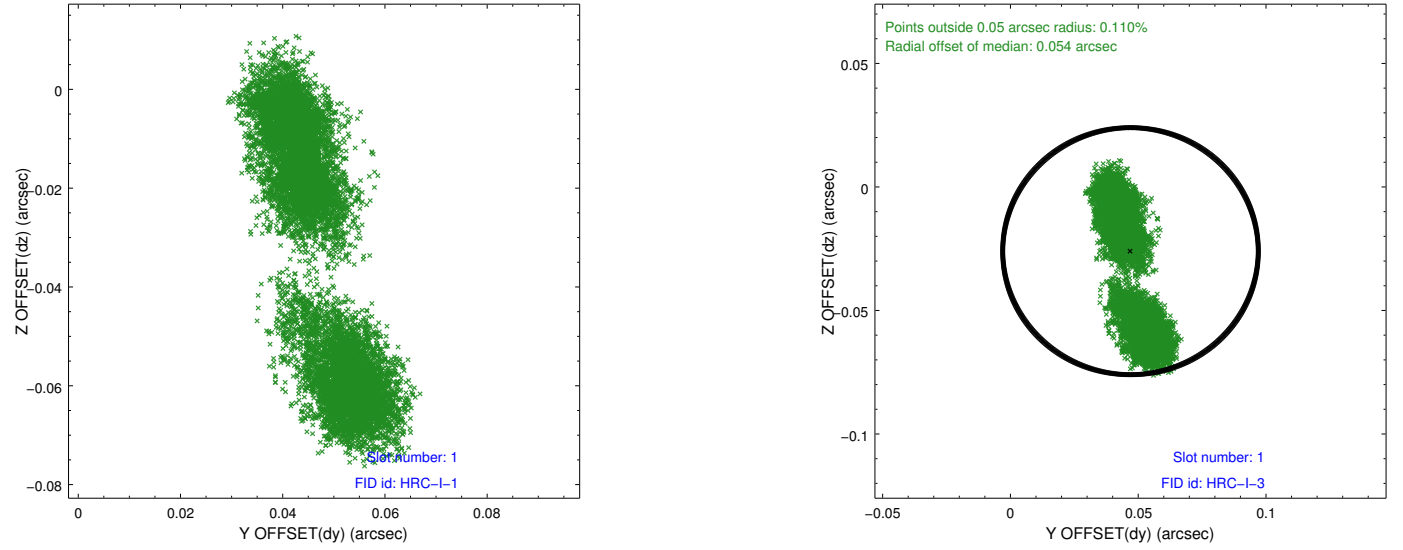


2.5 FID Slots

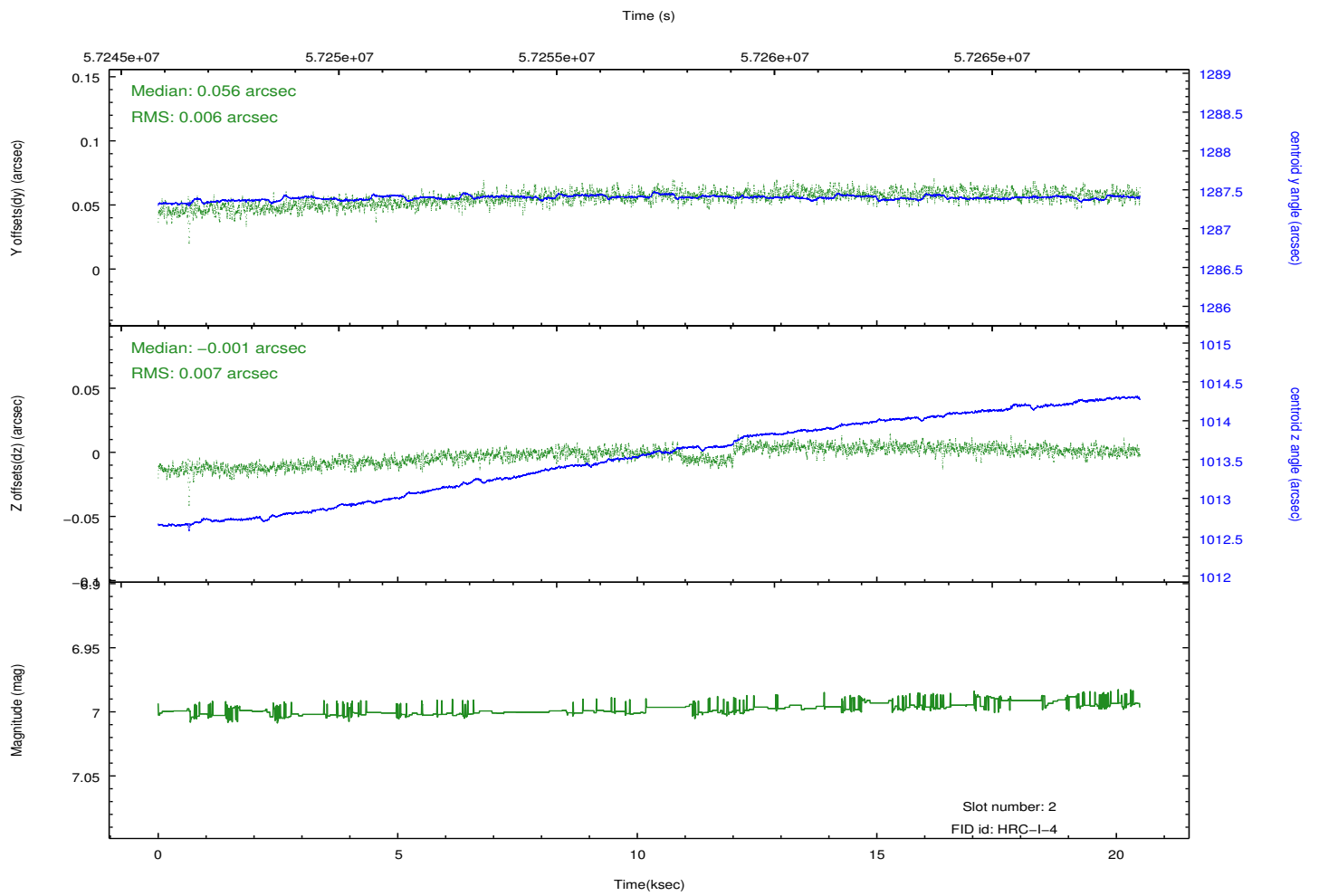
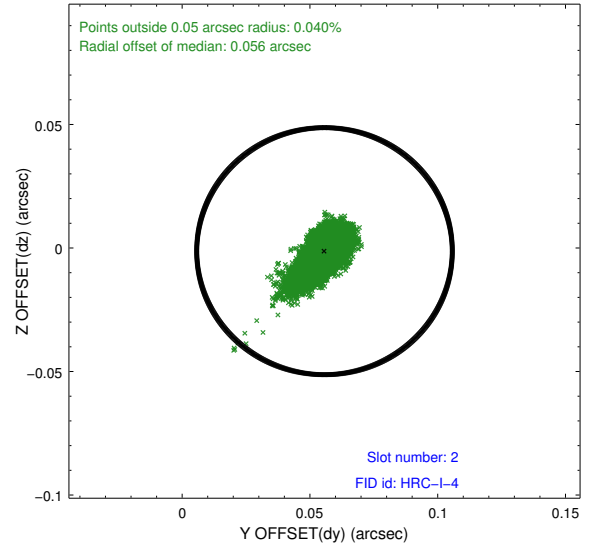
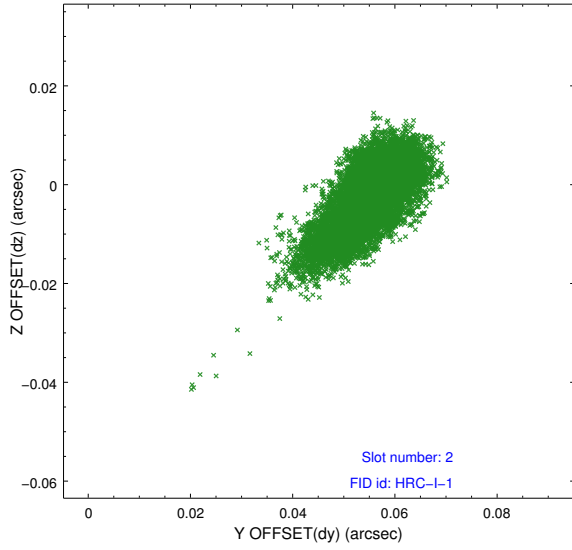
2.5.1 Slot 0



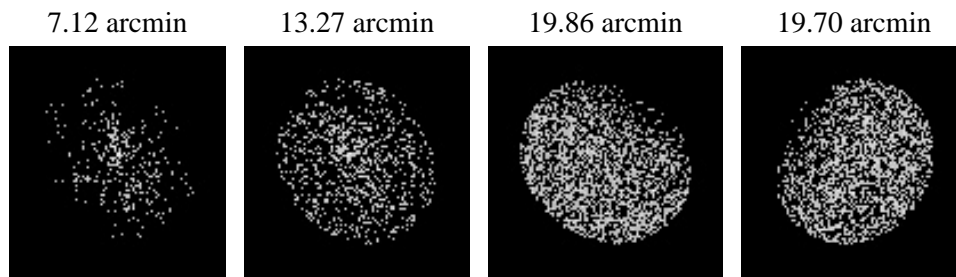
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2009.11.20 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 20.263 |

A.2 Comments

Window preference was not met.