

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3809 - L2 Version 4
Chandra X-Ray Center

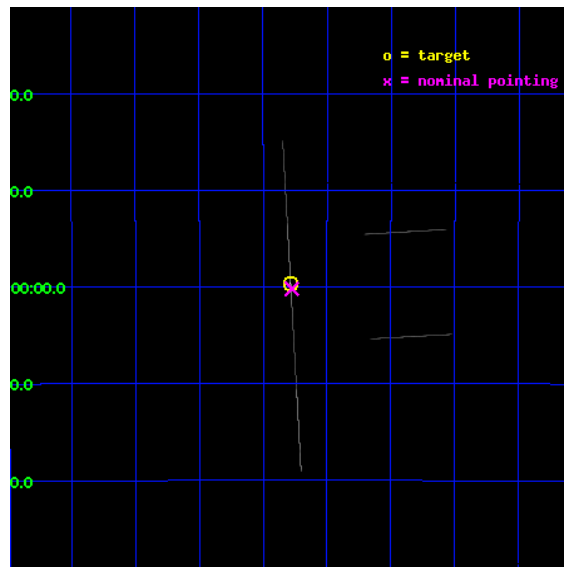
L2 Processing Date : Nov 5 2012

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1 Front

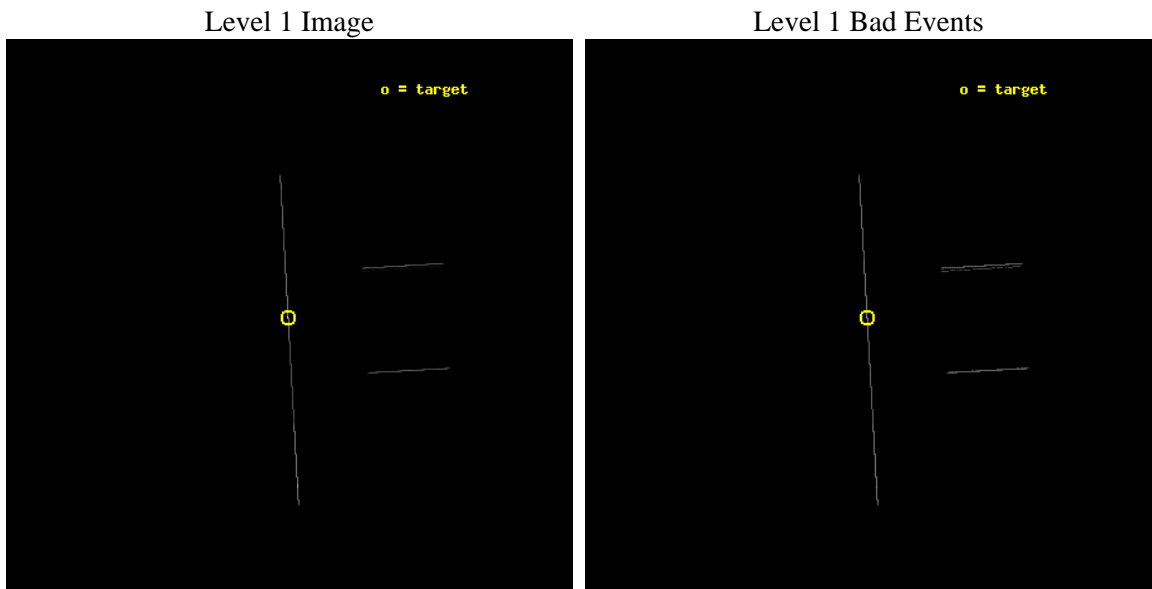
| | | |
|----------|--|---------------------------------------|
| seq_num | 400296 | Sequence number |
| obs_id | 3809 | Observation id |
| title | THE FAINTEST 'FIELD' LOW-MASS X-RAY BINARIES | Proposal title |
| observer | PROF MICHIEL VAN DER KLIS | Principal investigator |
| object | 1735-269 | Source name |
| ra_targ | 264.57125 | Observer's specified target RA [deg] |
| dec_targ | -26.994056 | Observer's specified target Dec [deg] |
| ra_nom | 264.5687507578 | Nominal RA [deg] |
| dec_nom | -27.003488004161 | Nominal Dec [deg] |
| roll_nom | 266.75351582548 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 40663.247809917 | Sum of GTIs [s] |
| livetime | 40504.406998159 | Livetime [s] |
| ontime2 | 40669.080706745 | Sum of GTIs [s] |
| ontime3 | 40666.164880395 | Sum of GTIs [s] |
| ontime5 | 40666.164405227 | Sum of GTIs [s] |
| ontime6 | 40667.625339329 | Sum of GTIs [s] |
| ontime7 | 40663.247809917 | Sum of GTIs [s] |
| ontime8 | 40669.082063466 | Sum of GTIs [s] |
| l2events | 1012547 | Number of level 2 events |



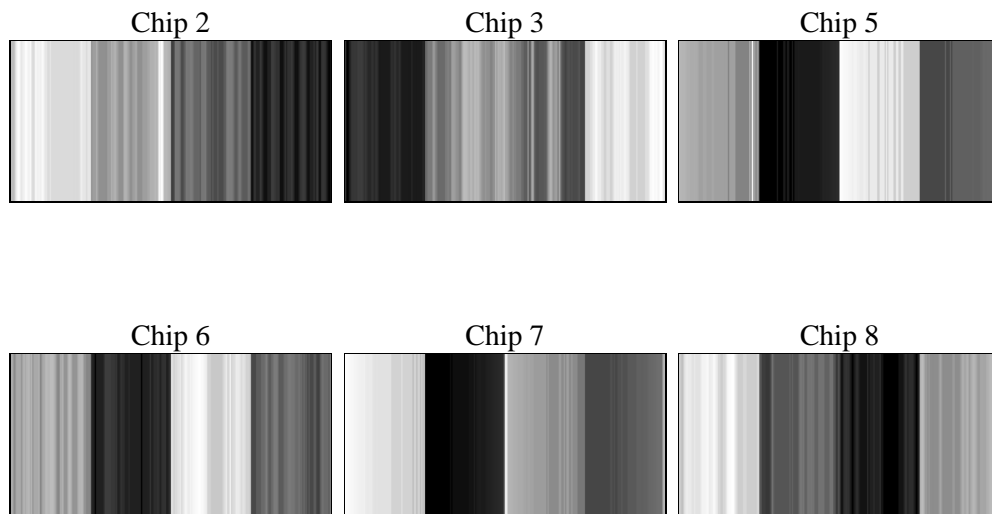
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 40536.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 40663.247809917 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime2 | 40669.080706745 | Sum of GTIs [s] |
| date | 2012-11-05T04:36:26 | Date and time of file creation | ontime3 | 40666.164880395 | Sum of GTIs [s] |
| revision | 4 | Processing version of data | ontime5 | 40666.164405227 | Sum of GTIs [s] |
| | | | ontime6 | 40667.625339329 | Sum of GTIs [s] |
| | | | ontime7 | 40663.247809917 | Sum of GTIs [s] |
| | | | ontime8 | 40669.082063466 | Sum of GTIs [s] |
| | | | l1events | 1304077 | Number of level 1 events |

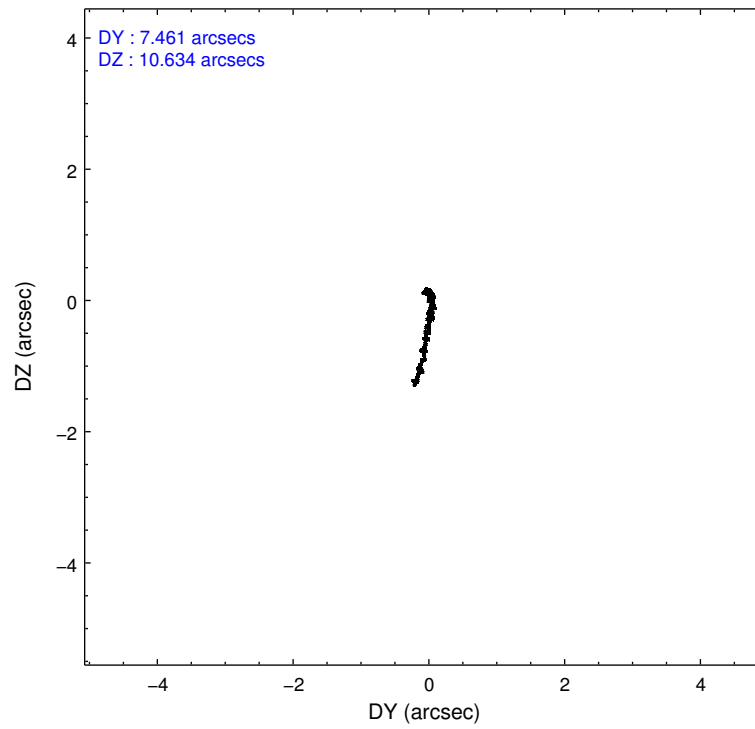
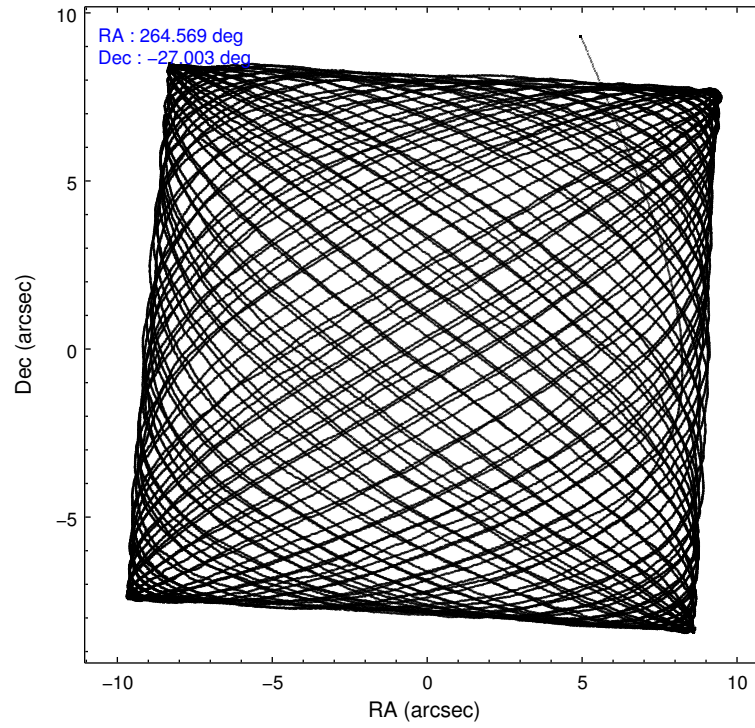
2.1.4 Events

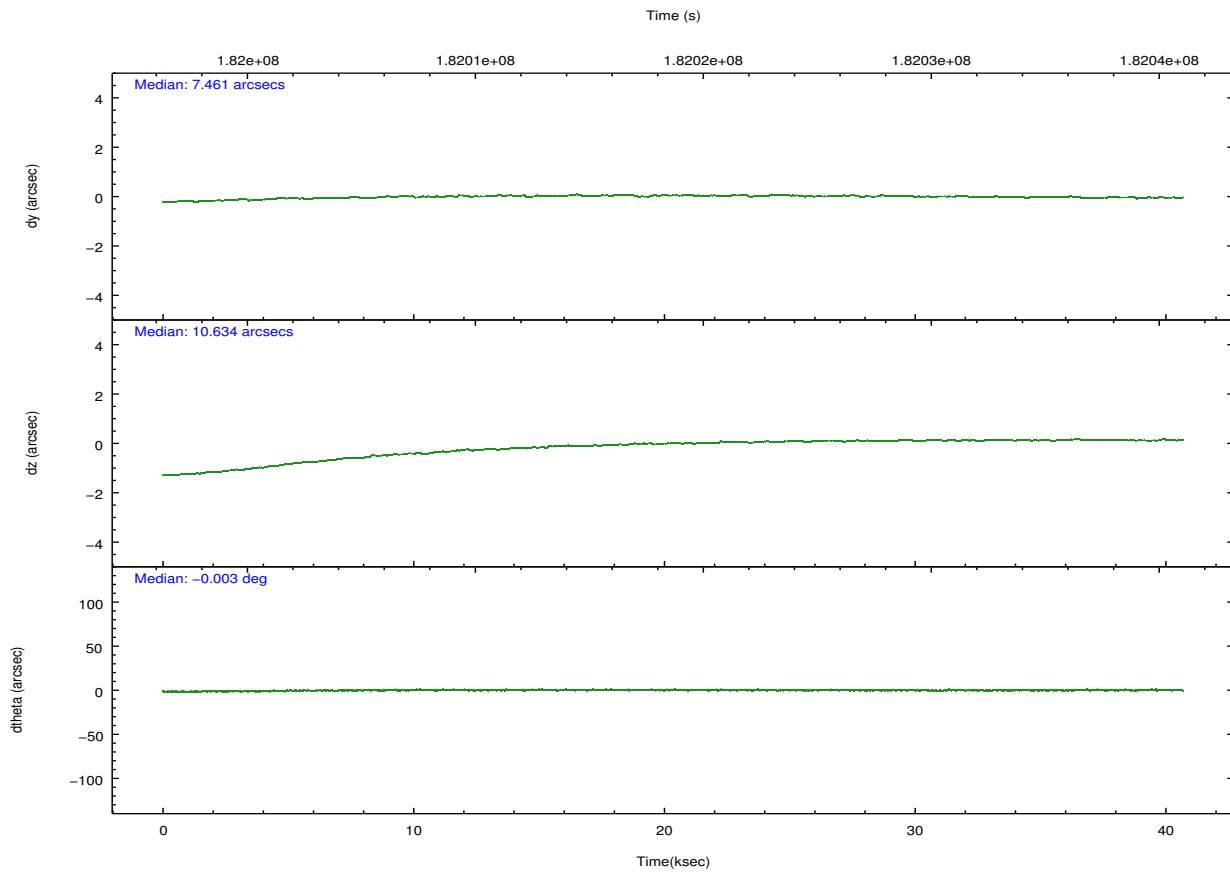
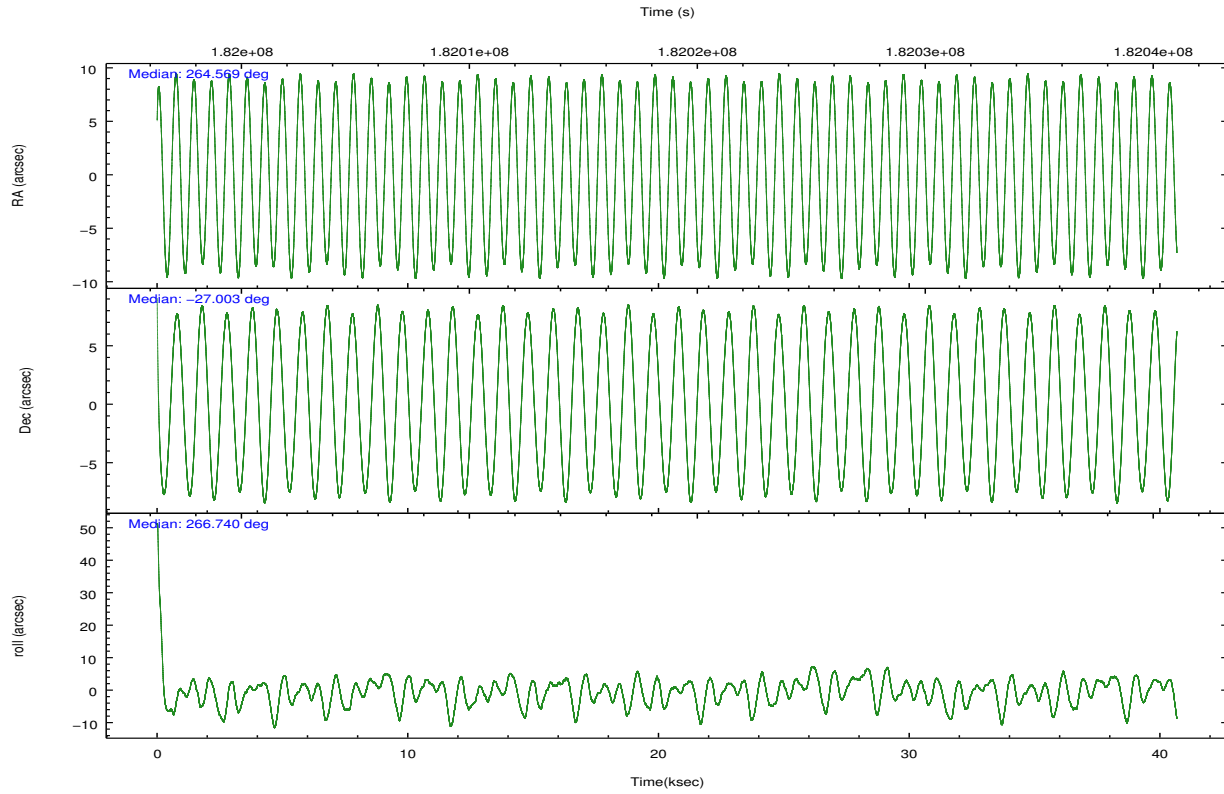
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|--------|-------|--------|--------|----------------|-------|-------|--------|-------|--------|-------|
| level 1 events | 56551 | 61673 | 264822 | 68936 | 739051 | 113044 | grade 0 events | 7049 | 7362 | 59132 | 7605 | 145199 | 18384 |
| rejected events | 10449 | 12219 | 31813 | 12484 | 48117 | 17210 | | 12% | 11% | 22% | 11% | 19% | 16% |
| rejected % | 18% | 19% | 12% | 18% | 6% | 15% | grade 1 events | 205 | 249 | 342 | 198 | 2642 | 327 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 18951 | 19824 | 66149 | 25911 | 182129 | 32351 |
| | | | | | | | | 33% | 32% | 24% | 37% | 24% | 28% |
| | | | | | | | grade 3 events | 5833 | 6989 | 5336 | 6014 | 74043 | 11141 |
| | | | | | | | | 10% | 11% | 2% | 8% | 10% | 9% |
| | | | | | | | grade 4 events | 6084 | 6152 | 5128 | 5989 | 72039 | 10733 |
| | | | | | | | | 10% | 9% | 1% | 8% | 9% | 9% |
| | | | | | | | grade 5 events | 9197 | 10797 | 24478 | 11169 | 39433 | 14710 |
| | | | | | | | | 16% | 17% | 9% | 16% | 5% | 13% |
| | | | | | | | grade 6 events | 9232 | 10300 | 104257 | 12050 | 223566 | 25398 |
| | | | | | | | | 16% | 16% | 39% | 17% | 30% | 22% |
| | | | | | | | grade 7 events | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | CC33_FAINT | CC33_FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 264.554624 | 264.5687507578 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -26.979315 | -27.00348800416068 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 266.590466 | 266.7535158254846 | [s] Primary exposure time | 0.000000 | 0 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -187.132523 | -187.1254020033014 | | | |
| [mm] SIM translation stage offset | -3 | -3.007120579706367 | | | |
| [s] Observation start time (MET) | 181998480.184000 | 181997184.38178 | | | |
| Observation start date | 2003-10-08T11:06:56 | 2003-10-08T10:46:24 | | | |
| [s] Observation end time (MET) | 182039016.184000 | 182039914.07111 | | | |
| Observation end date | 2003-10-08T22:22:32 | 2003-10-08T22:38:34 | | | |
| Read mode | CONTINUOUS | CONTINUOUS | | | |

2.3 Aspect



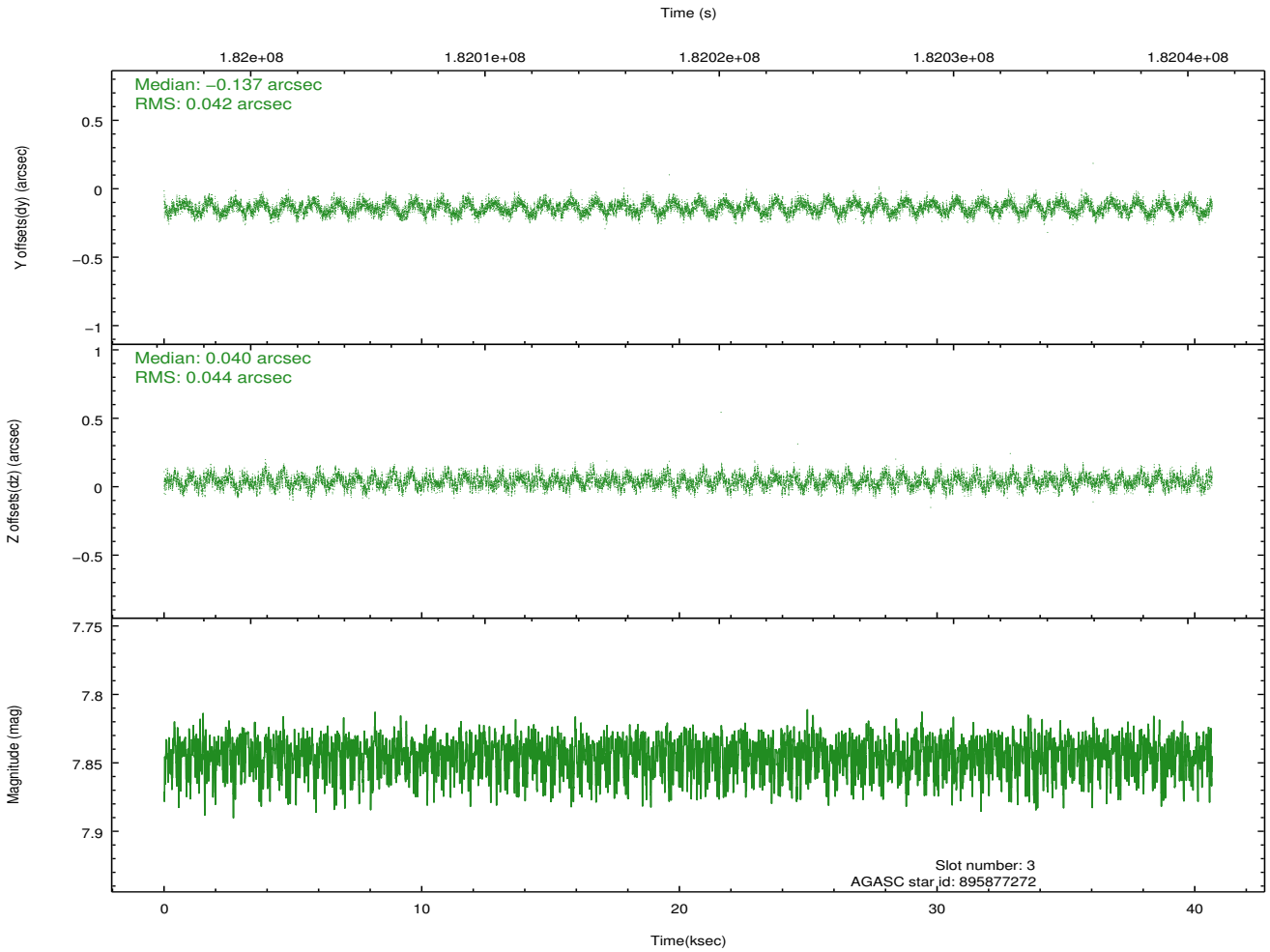
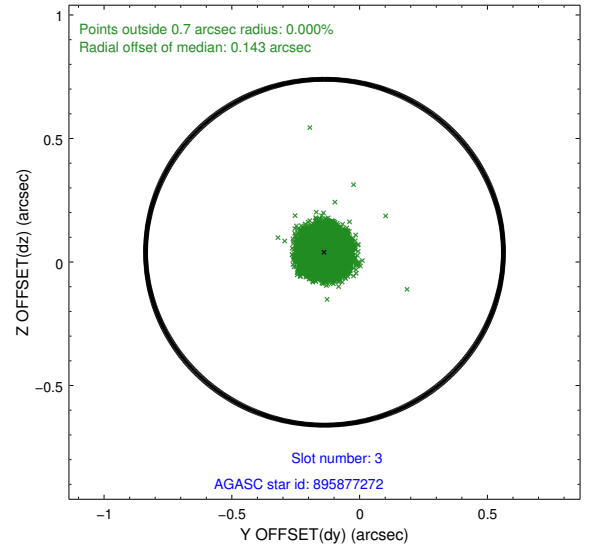
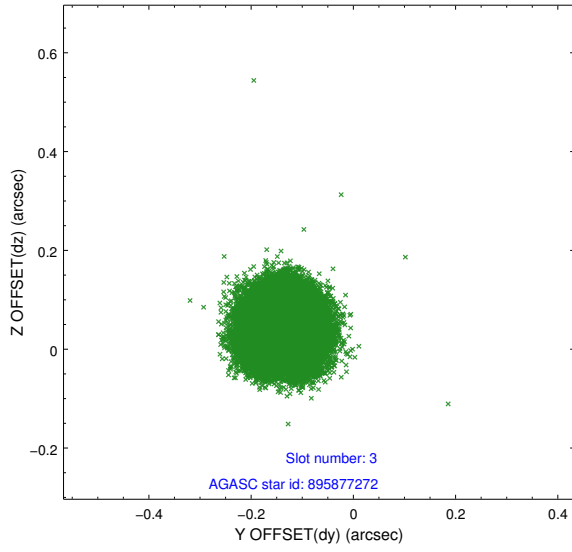


Slot Statistics

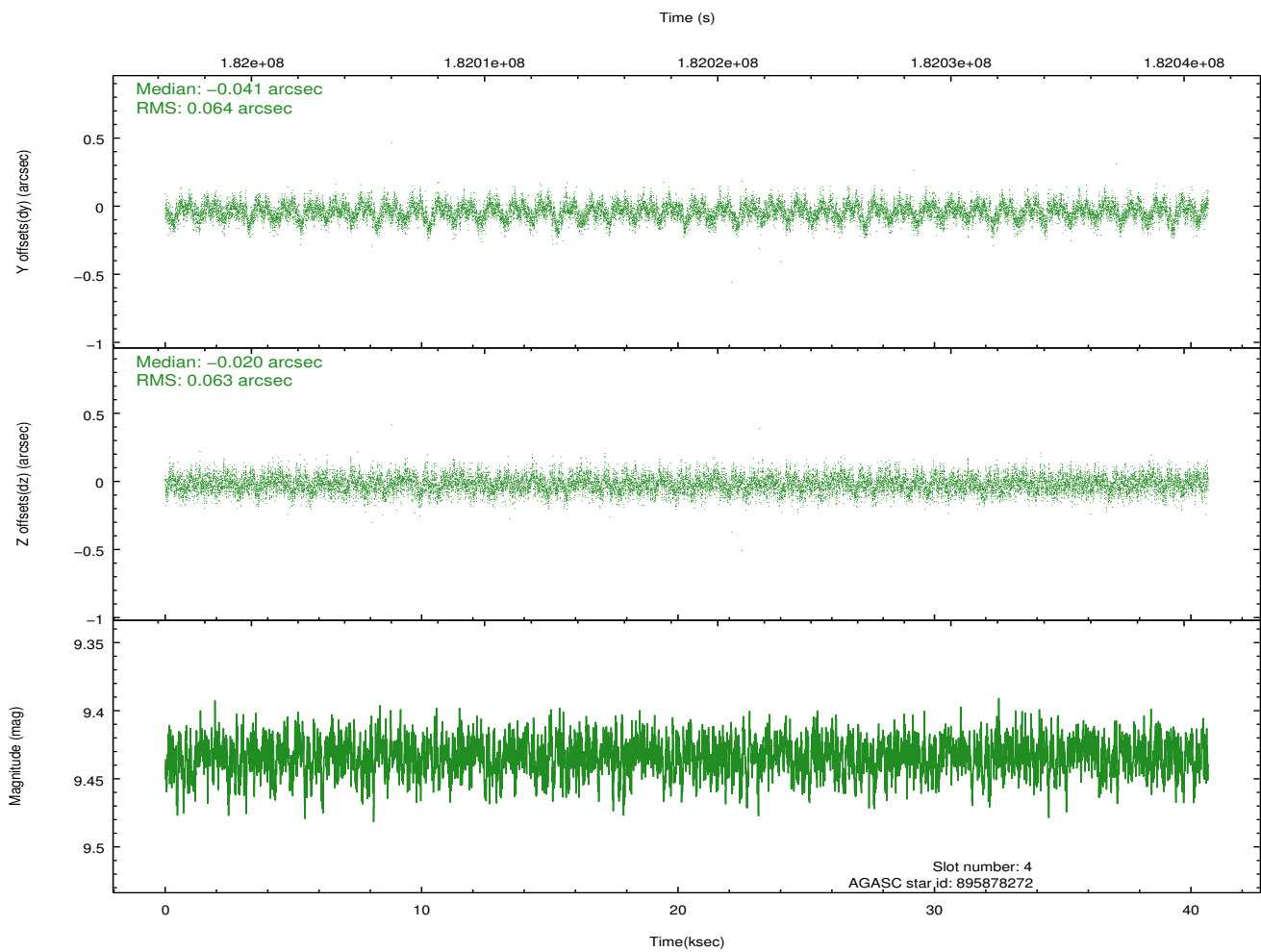
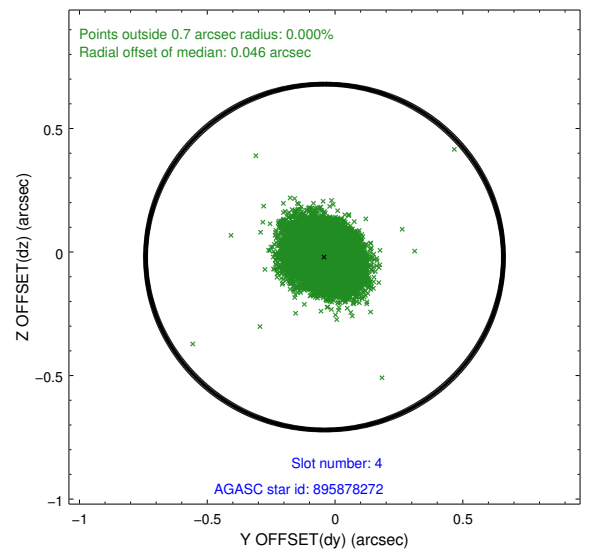
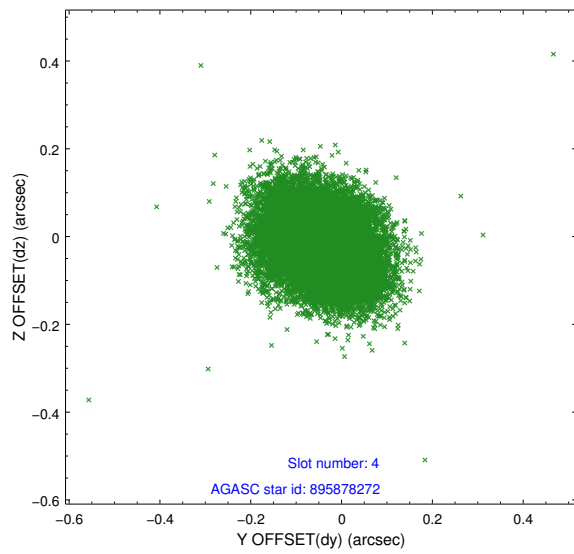
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.09 | 9917 | -0.040 | -0.075 | 0.010 | 0.036 | 0.000000 | 0.000000 | -760.07 | -1793.83 |
| 1 | FID | ACIS-S-4 | 7.18 | 9916 | 0.066 | 0.039 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2153.33 | 114.70 |
| 2 | FID | ACIS-S-5 | 7.23 | 9918 | -0.057 | 0.044 | 0.010 | 0.032 | 0.000000 | 0.000000 | -1812.88 | 108.43 |
| 3 | GUIDE | 895877272 | 7.84 | 19832 | -0.137 | 0.040 | 0.066 | 0.101 | 264.774842 | -26.937569 | -191.06 | 696.68 |
| 4 | GUIDE | 895878272 | 9.43 | 19817 | -0.041 | -0.020 | 0.094 | 0.156 | 263.965944 | -27.067577 | 434.53 | -1864.36 |
| 5 | GUIDE | 895879392 | 9.12 | 19828 | 0.089 | 0.179 | 0.075 | 0.121 | 264.792874 | -27.441876 | 1618.04 | 859.49 |
| 6 | GUIDE | 895879960 | 10.05 | 19822 | 0.124 | -0.219 | 0.146 | 0.228 | 264.581806 | -27.205416 | 808.59 | 133.76 |
| 7 | GUIDE | 895880152 | 8.24 | 19832 | -0.033 | 0.015 | 0.054 | 0.089 | 264.267852 | -27.098682 | 485.27 | -891.58 |

2.4 Star Slots

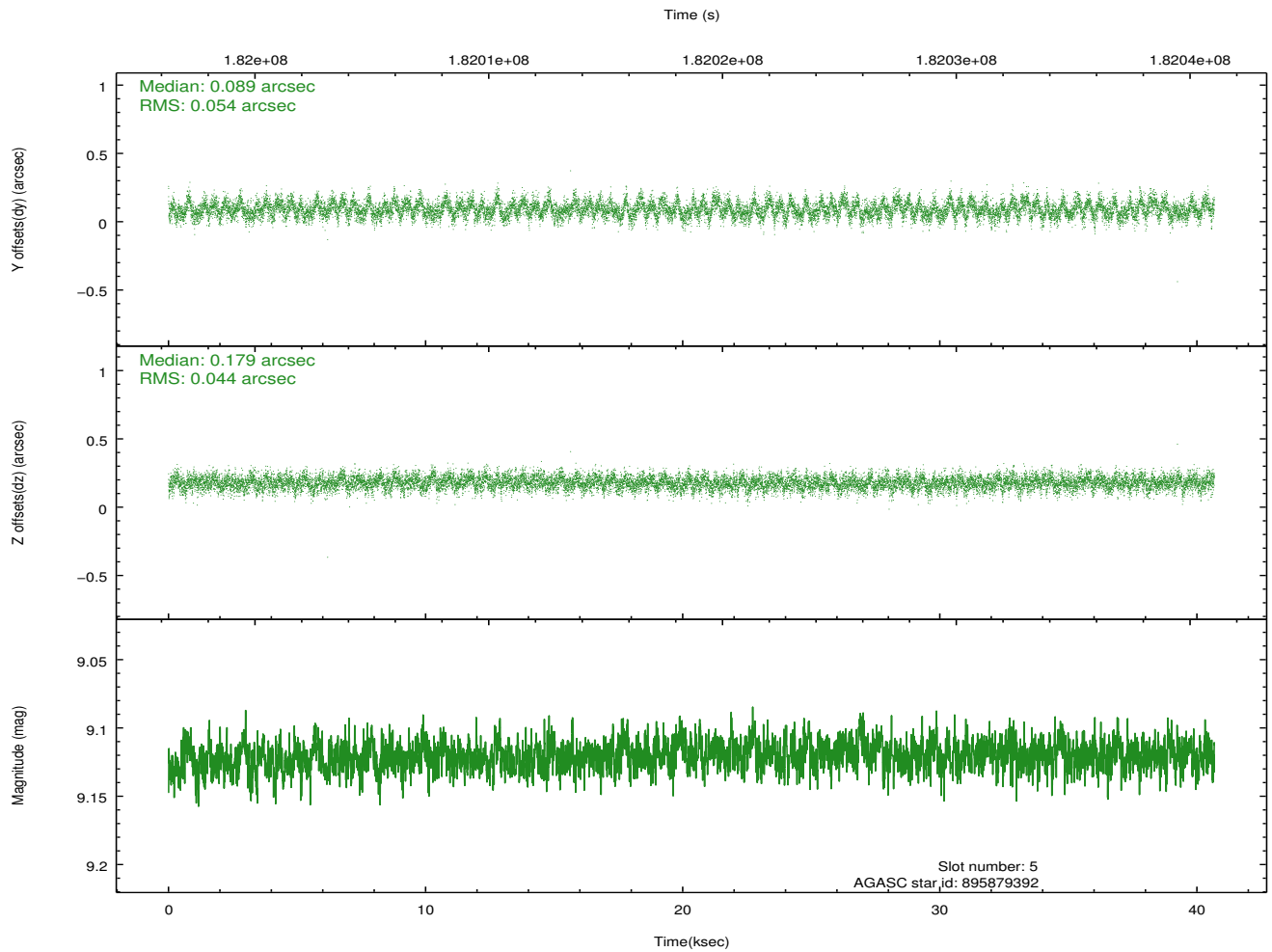
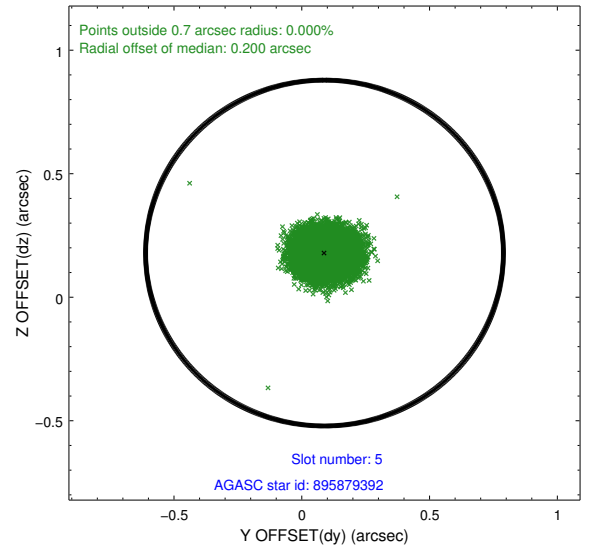
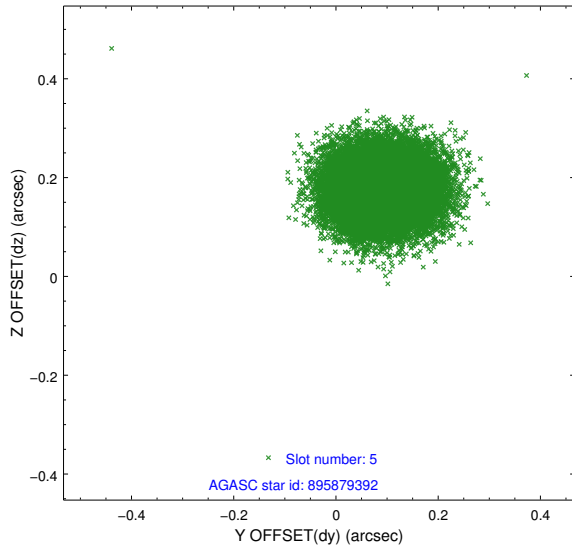
2.4.1 Slot 3



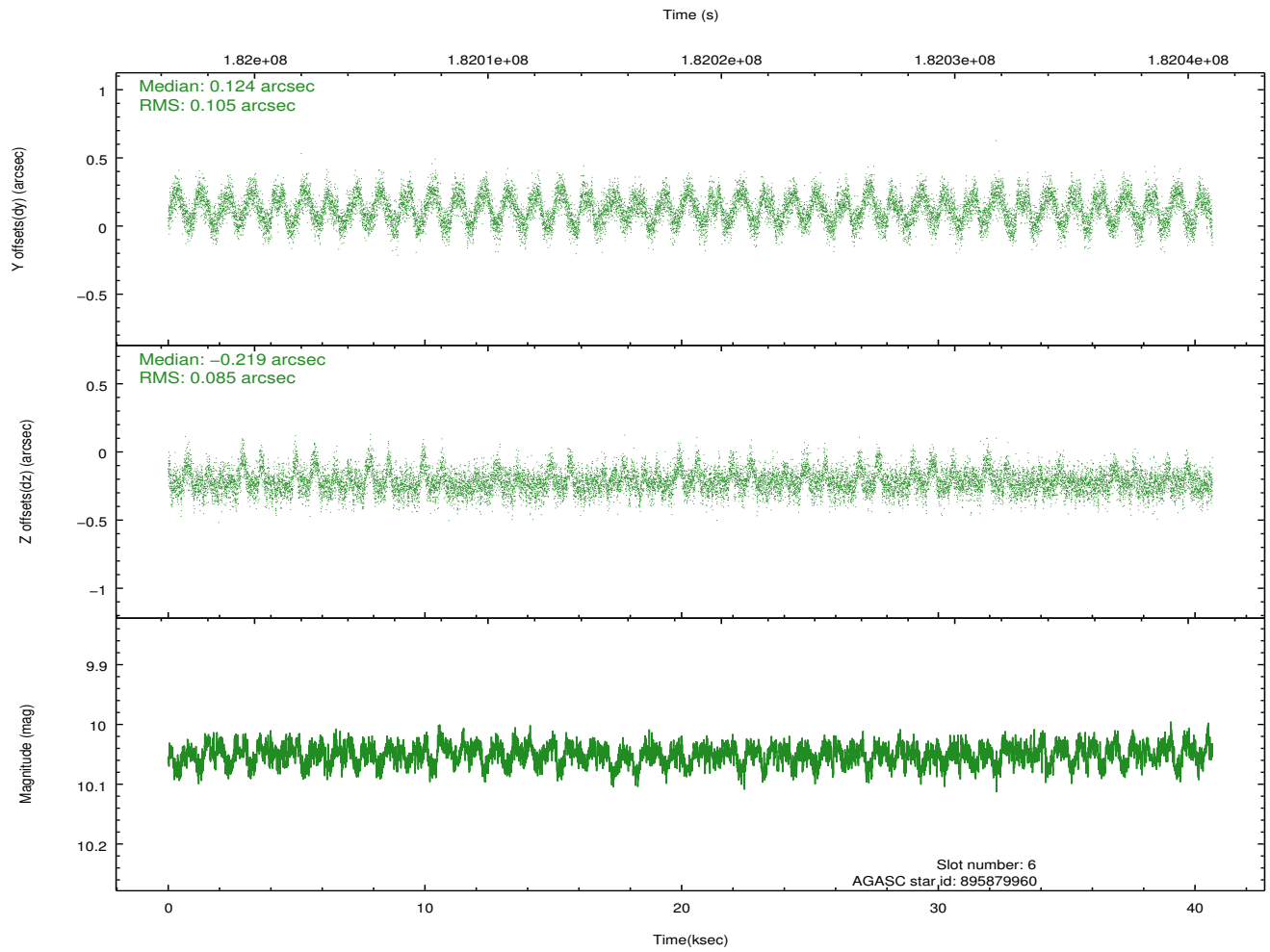
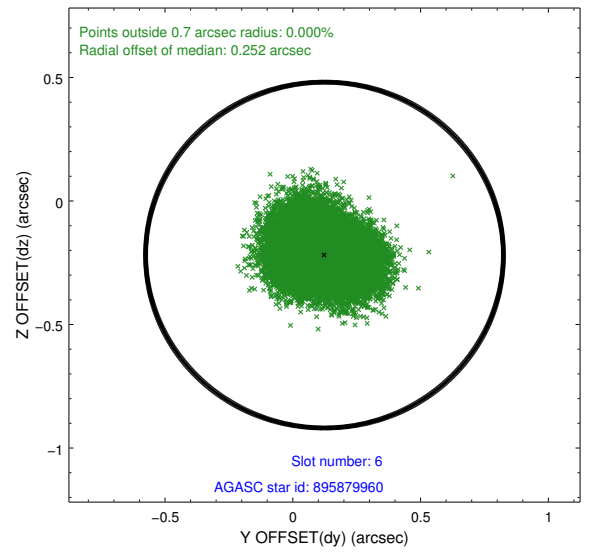
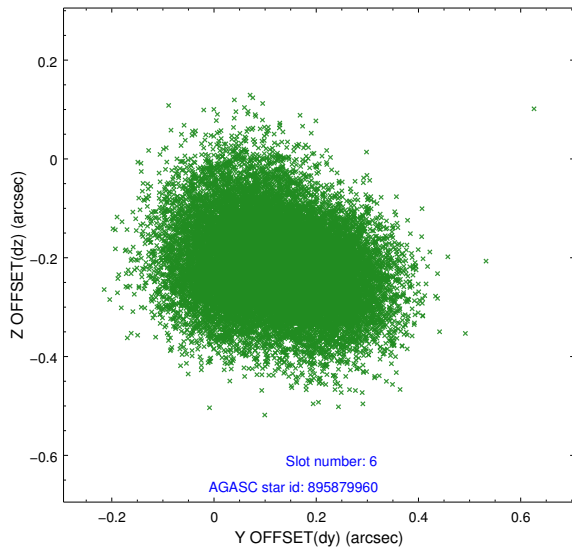
2.4.2 Slot 4



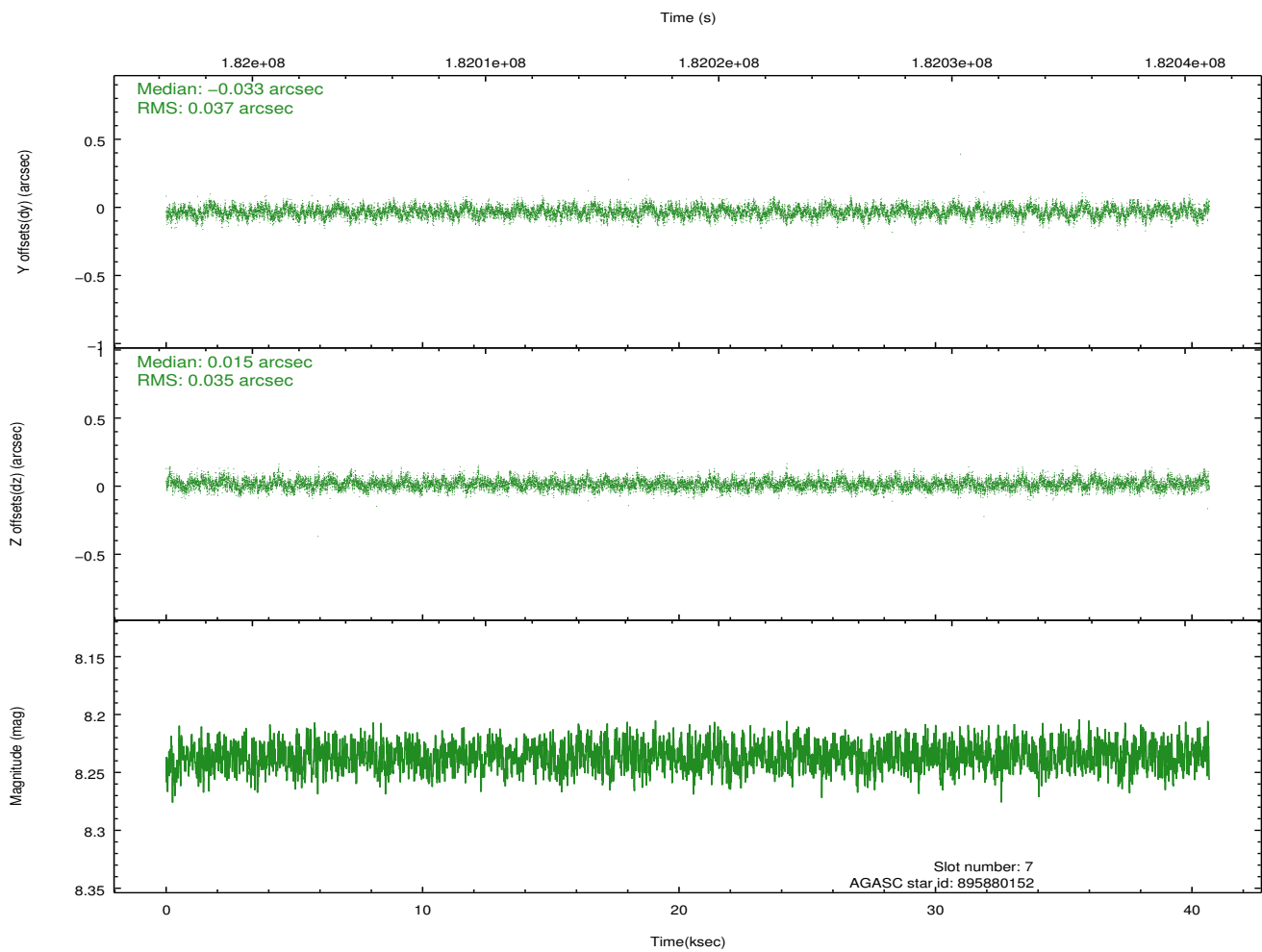
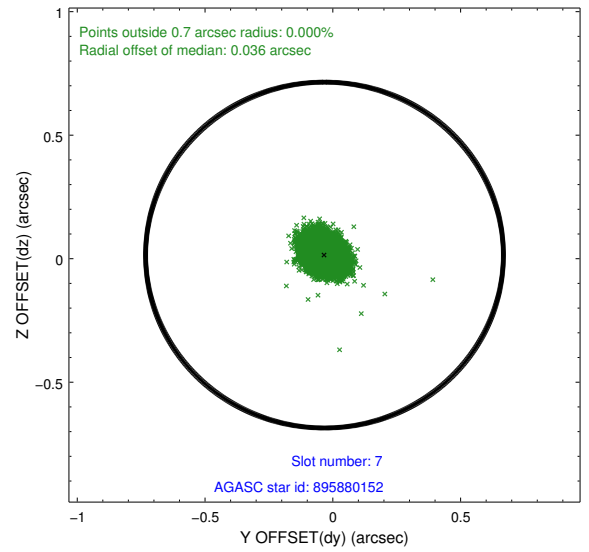
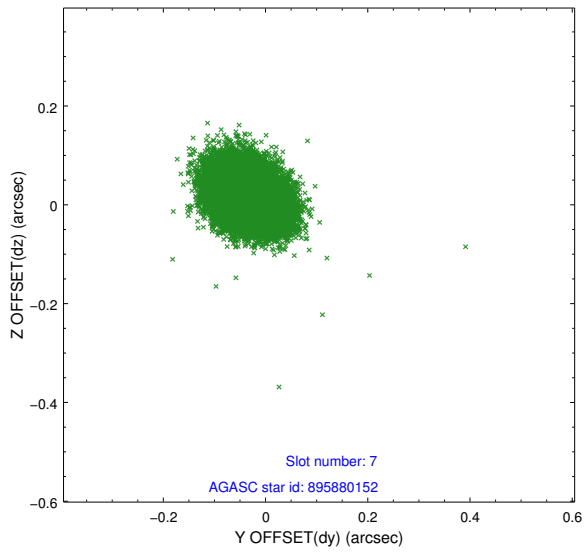
2.4.3 Slot 5



2.4.4 Slot 6

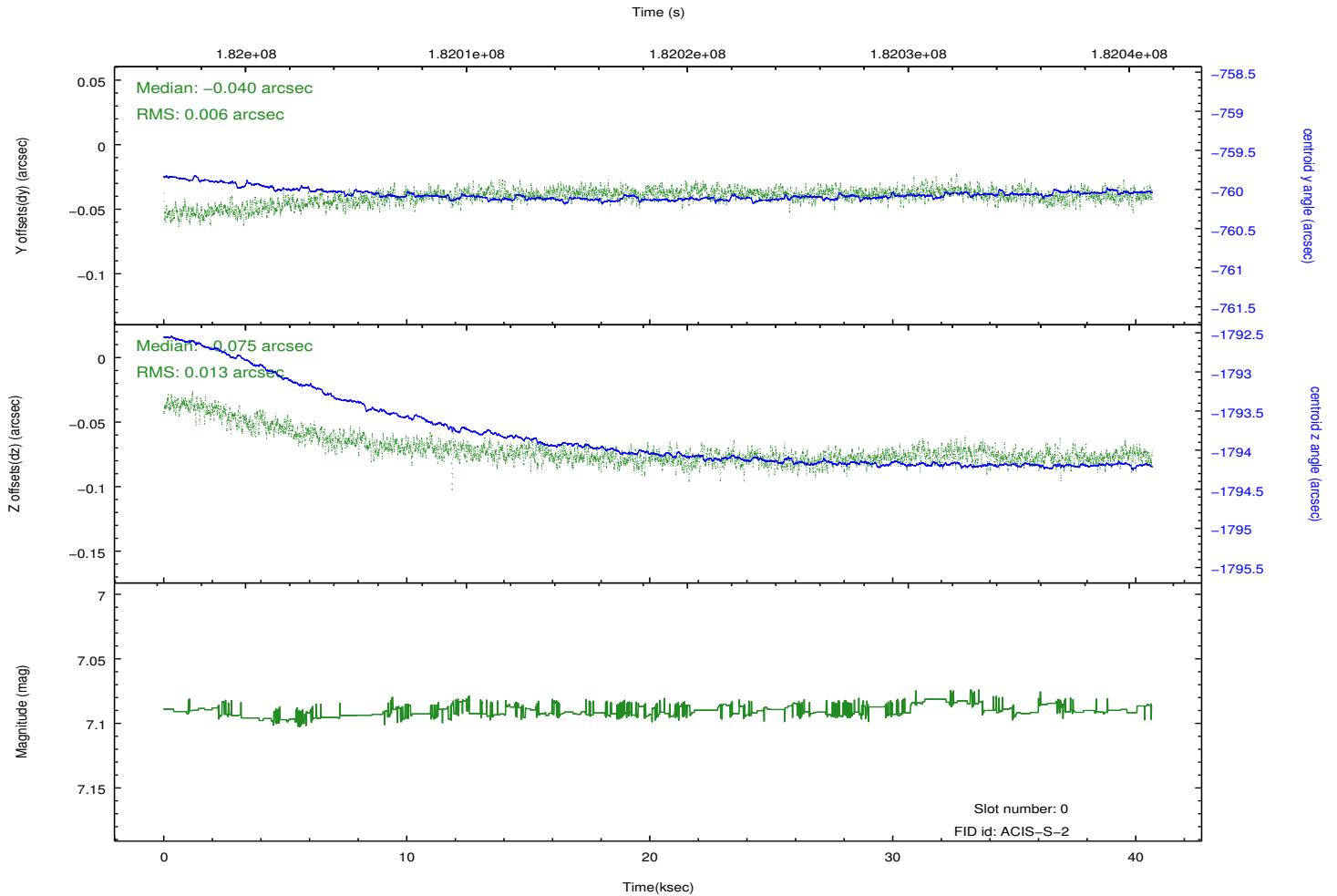
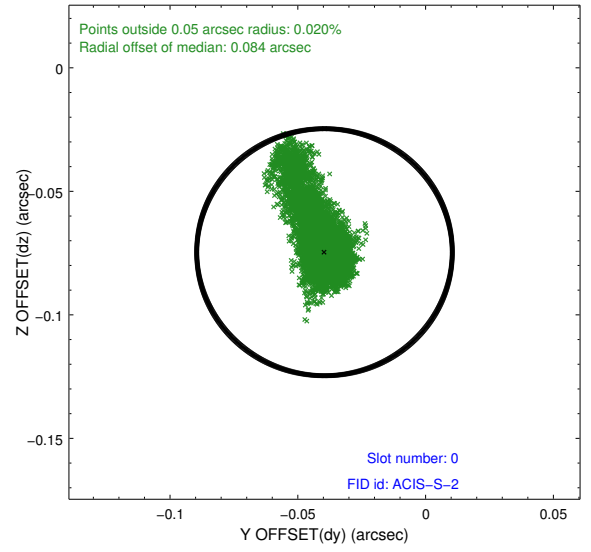
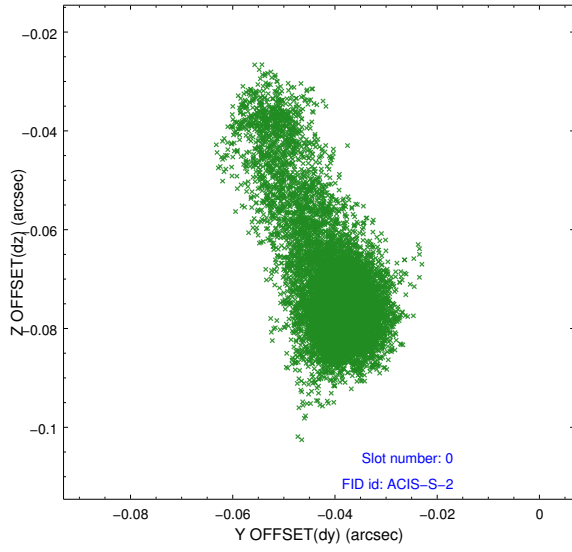


2.4.5 Slot 7

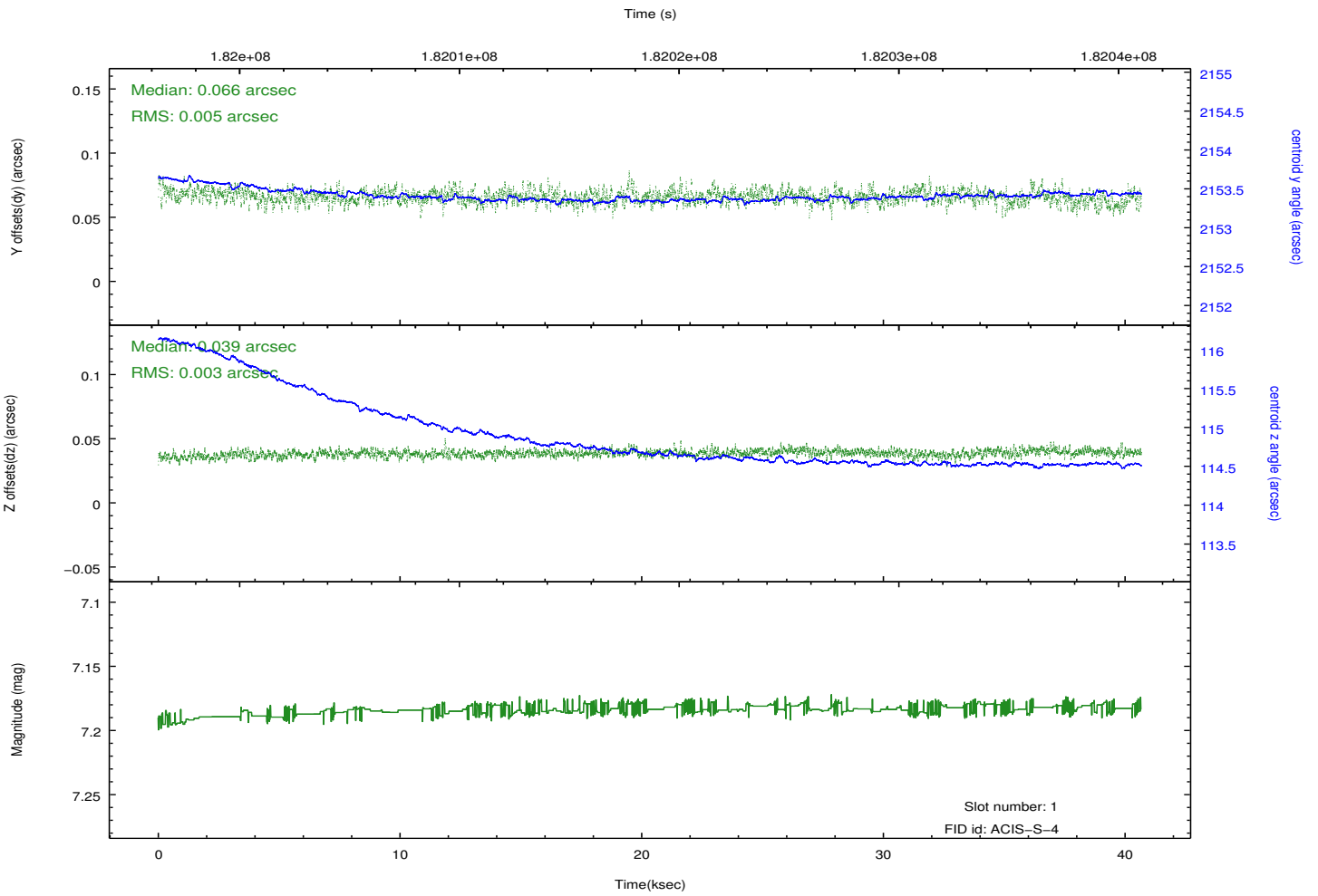
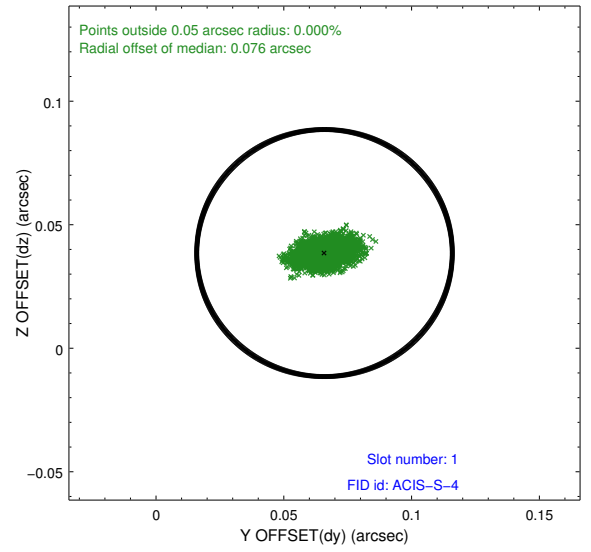
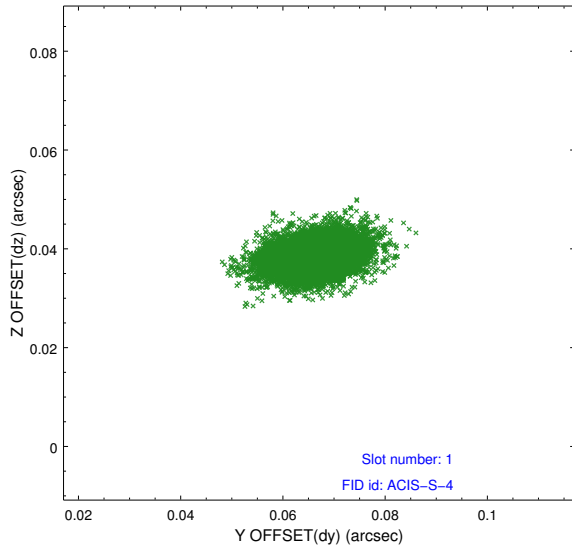


2.5 FID Slots

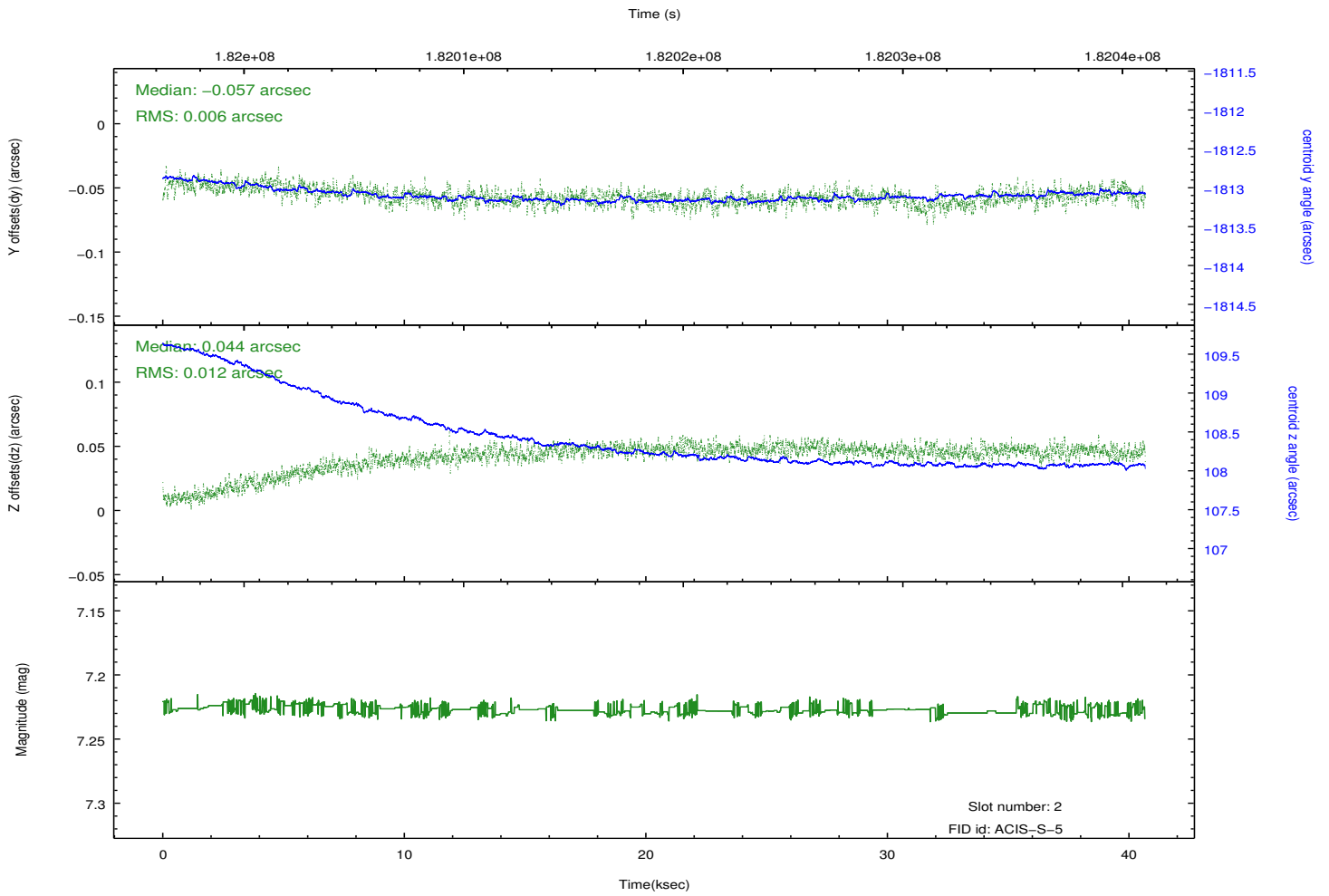
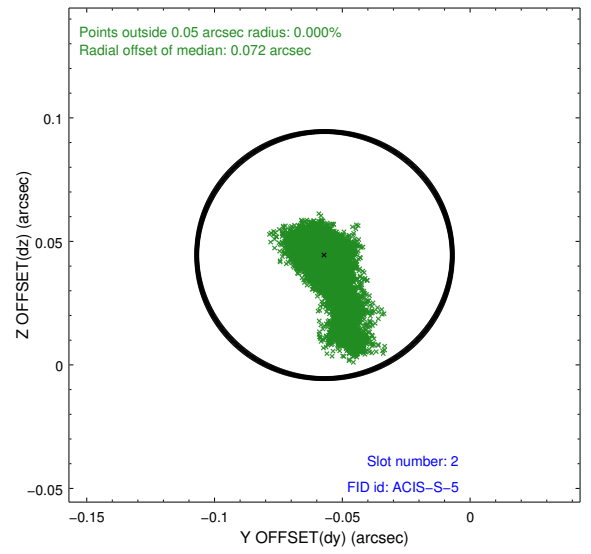
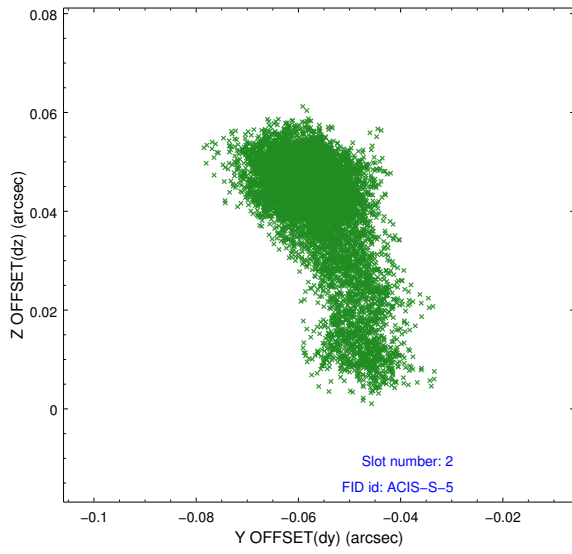
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.11.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 40.666 |

A.2 Comments