

V&V Reference Report

L2 ASCDS Version : 7.6.7

Observation 5625 - L2 Version 002
Chandra X-Ray Center

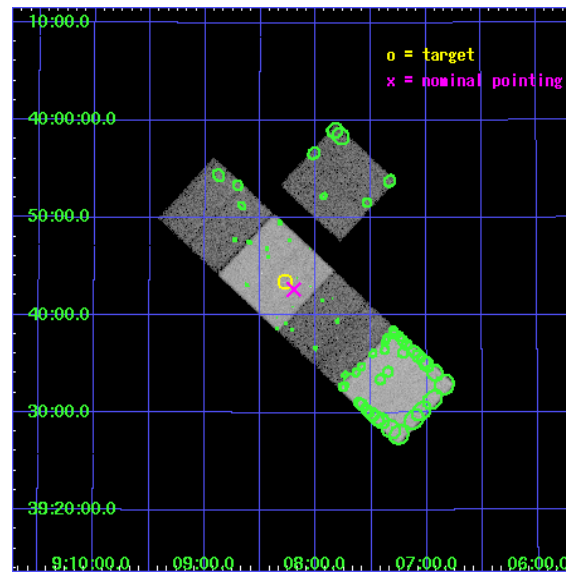
L2 Processing Date: Feb 25 2006

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1 Front

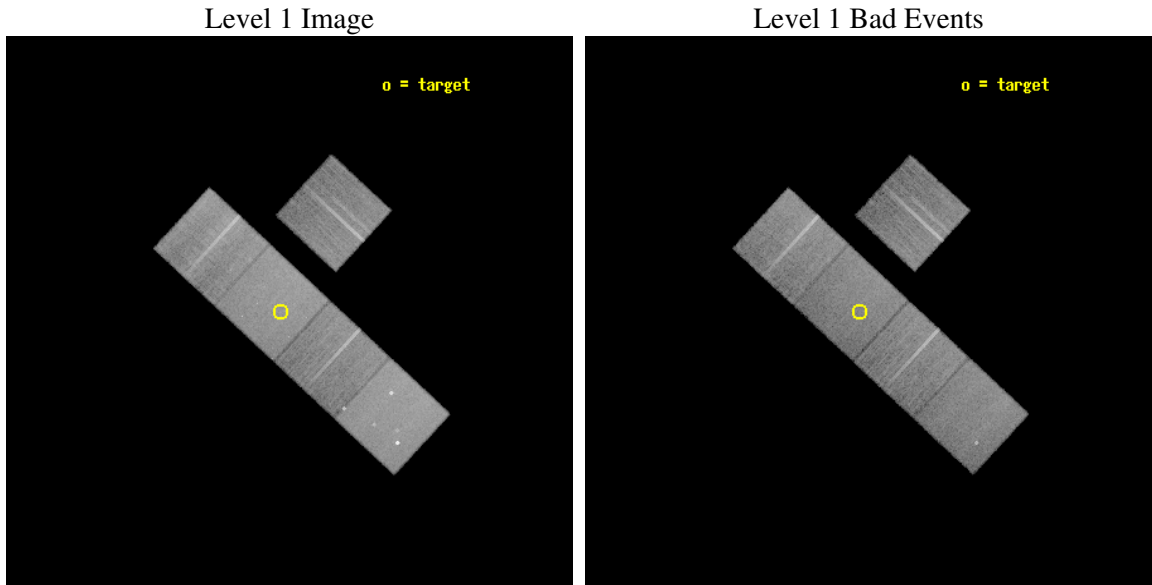
| | |
|----------|--|
| seq_num | 701048 |
| obs_id | 5625 |
| title | Extended inverse Compton emission from distant powerful radio galaxies |
| observer | Prof Andrew Fabian |
| object | 6C 0905+3955 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 137.0705 |
| dec_targ | 39.723889 |
| ra_nom | 137.04928662307 |
| dec_nom | 39.711100381625 |
| roll_nom | 222.87890012086 |
| revision | 2 |
| ontime | 19936.099961668 |
| livetime | 19675.620138926 |
| ontime3 | 19936.099961668 |
| ontime5 | 19936.099961668 |
| ontime6 | 19936.099961668 |
| ontime7 | 19936.099961668 |
| ontime8 | 19929.817941397 |
| l2events | 217487 |



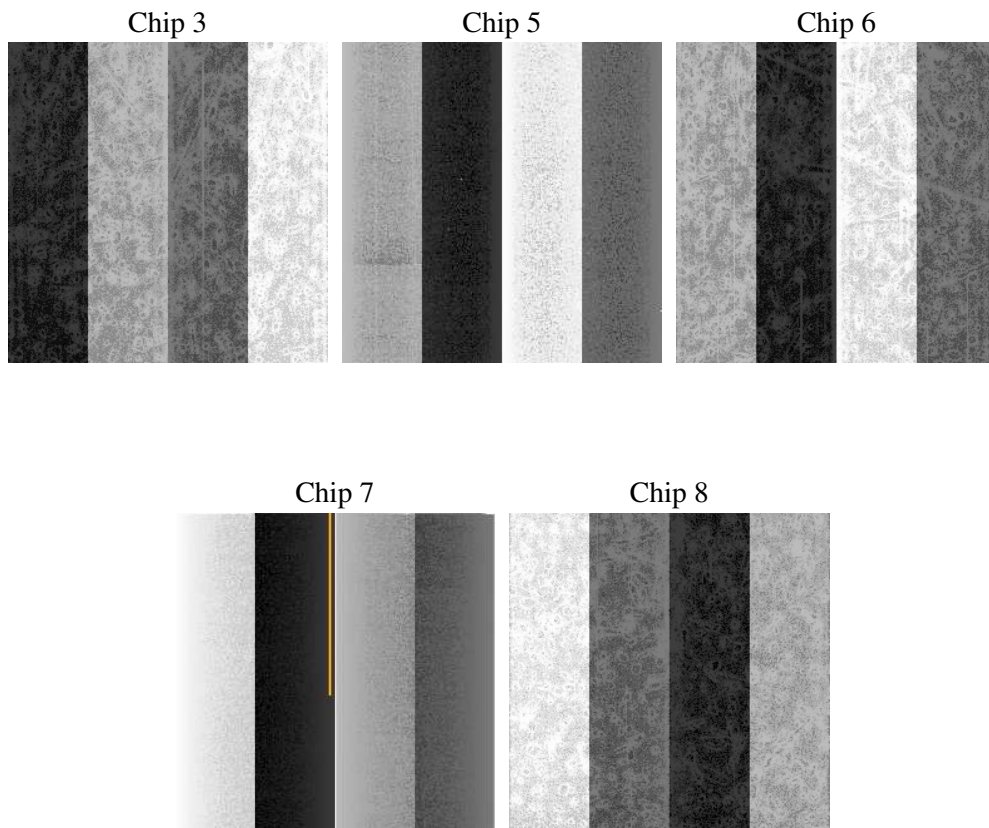
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.7 |
| caldsver | 3.2.1 |
| date | 2006-02-25T13:37:58 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 19760.000000 |
| ontime | 21142.160447627 |
| ontime3 | 21142.160517246 |
| ontime5 | 21142.160447627 |
| ontime6 | 21142.160427719 |
| ontime7 | 21142.160447627 |
| ontime8 | 21135.878427356 |
| l1events | 971925 |

2.1.4 Events

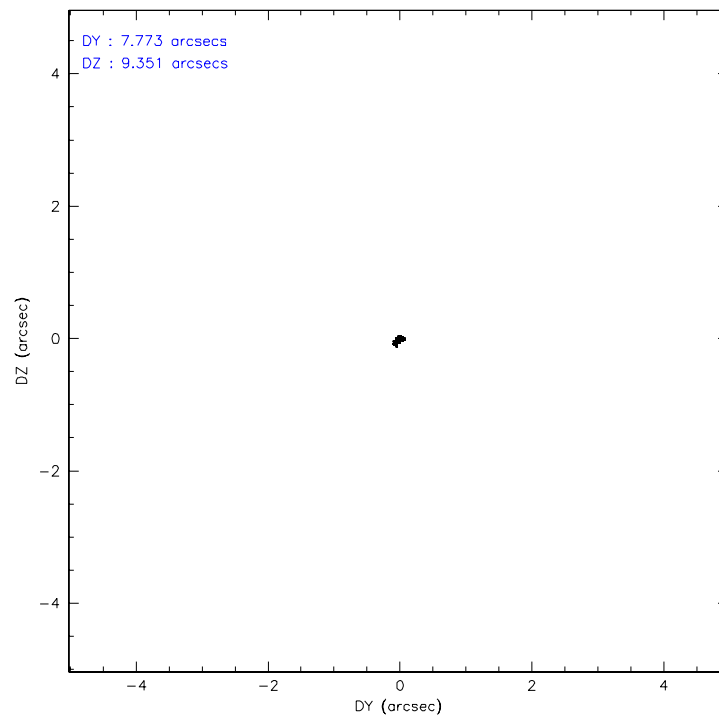
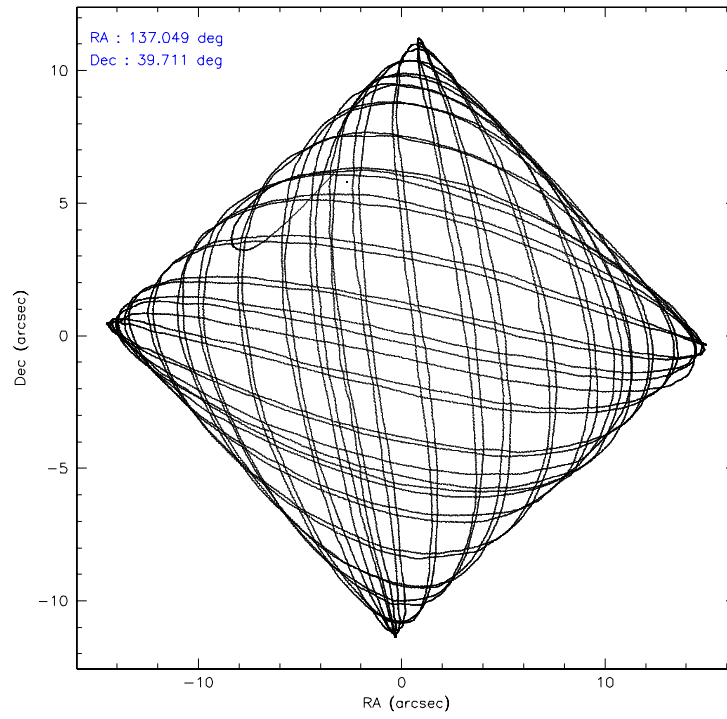
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 153734 | 241278 | 160760 | 214624 | 201529 |
| rejected events | 136154 | 139966 | 142423 | 137776 | 159743 |
| rejected % | 88% | 58% | 88% | 64% | 79% |

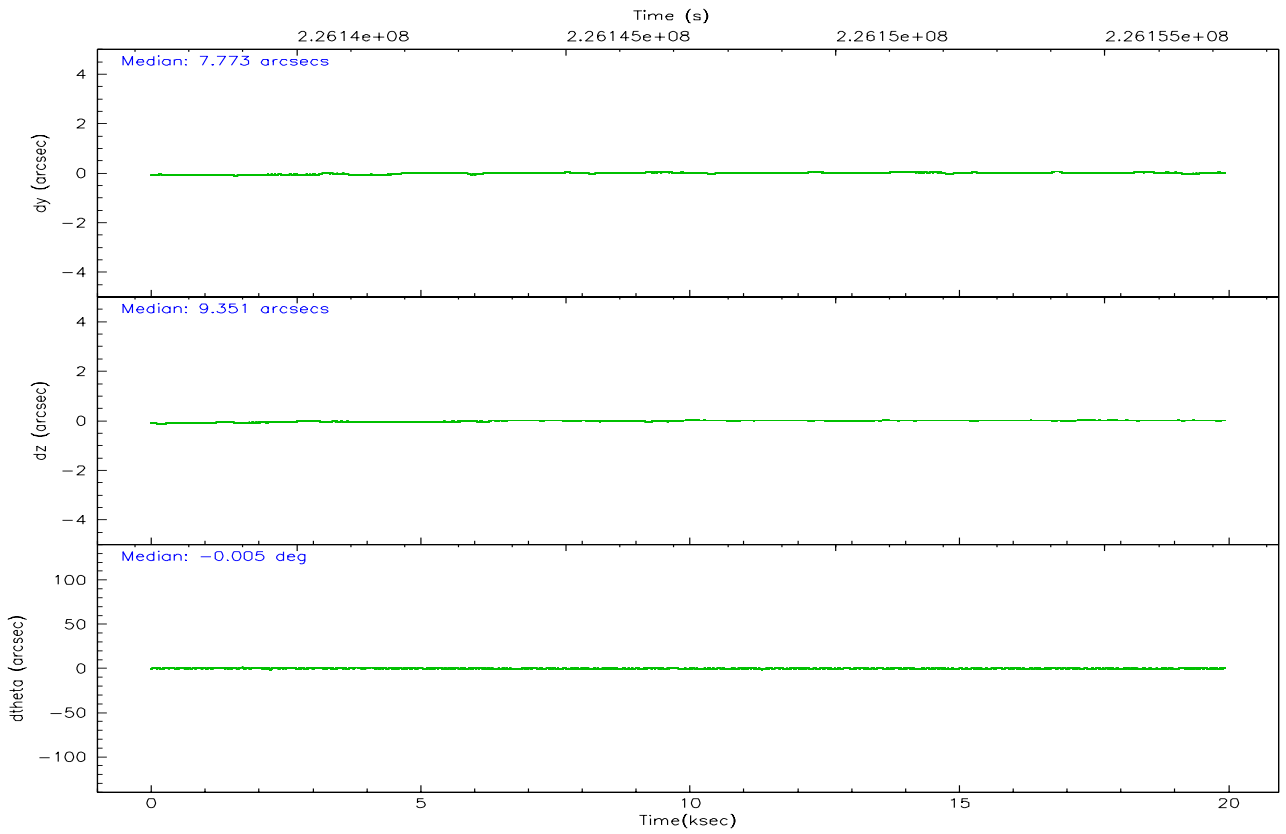
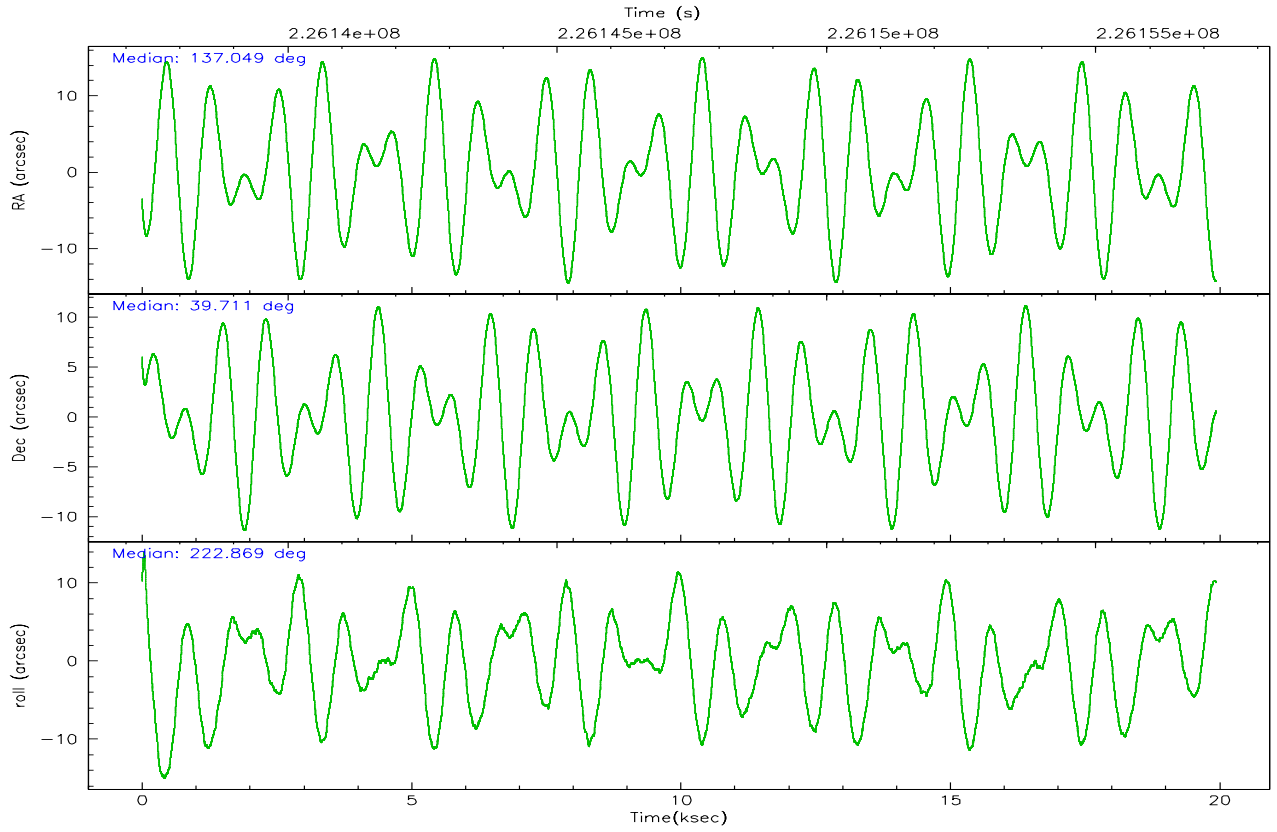
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|
| grade 0 events | 8167 | 10224 | 7726 | 4454 | 13700 |
| | 5% | 4% | 4% | 2% | 6% |
| grade 1 events | 87 | 820 | 80 | 130 | 127 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 3516 | 33181 | 4090 | 20255 | 9788 |
| | 2% | 13% | 2% | 9% | 4% |
| grade 3 events | 1866 | 2268 | 1829 | 3923 | 4560 |
| | 1% | 0% | 1% | 1% | 2% |
| grade 4 events | 1799 | 2224 | 1860 | 3765 | 4207 |
| | 1% | 0% | 1% | 1% | 2% |
| grade 5 events | 7033 | 11367 | 7428 | 13744 | 9387 |
| | 4% | 4% | 4% | 6% | 4% |
| grade 6 events | 3315 | 59954 | 3853 | 48894 | 11654 |
| | 2% | 24% | 2% | 22% | 5% |
| grade 7 events | 127951 | 121240 | 133894 | 119459 | 148106 |
| | 83% | 50% | 83% | 55% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-35678 | ACIS-35678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 137.059231 | 137.0492866230662 | Alternating exposures requested | N | N |
| Pointing Dec | 39.737212 | 39.71110038162456 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 222.715916 | 222.8789001208594 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1425803651734 | | | |
| SIM translation stage offset (mm) | 0 | 0.01005778216563158 | | | |
| Observation start time | 226137470.184000 | 226135871.12245 | | | |
| Observation start date | 2005-03-02T07:56:46 | 2005-03-02T07:31:11 | | | |
| Observation end time | 226157230.184000 | 226157923.99845 | | | |
| Observation end date | 2005-03-02T13:26:06 | 2005-03-02T13:38:43 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



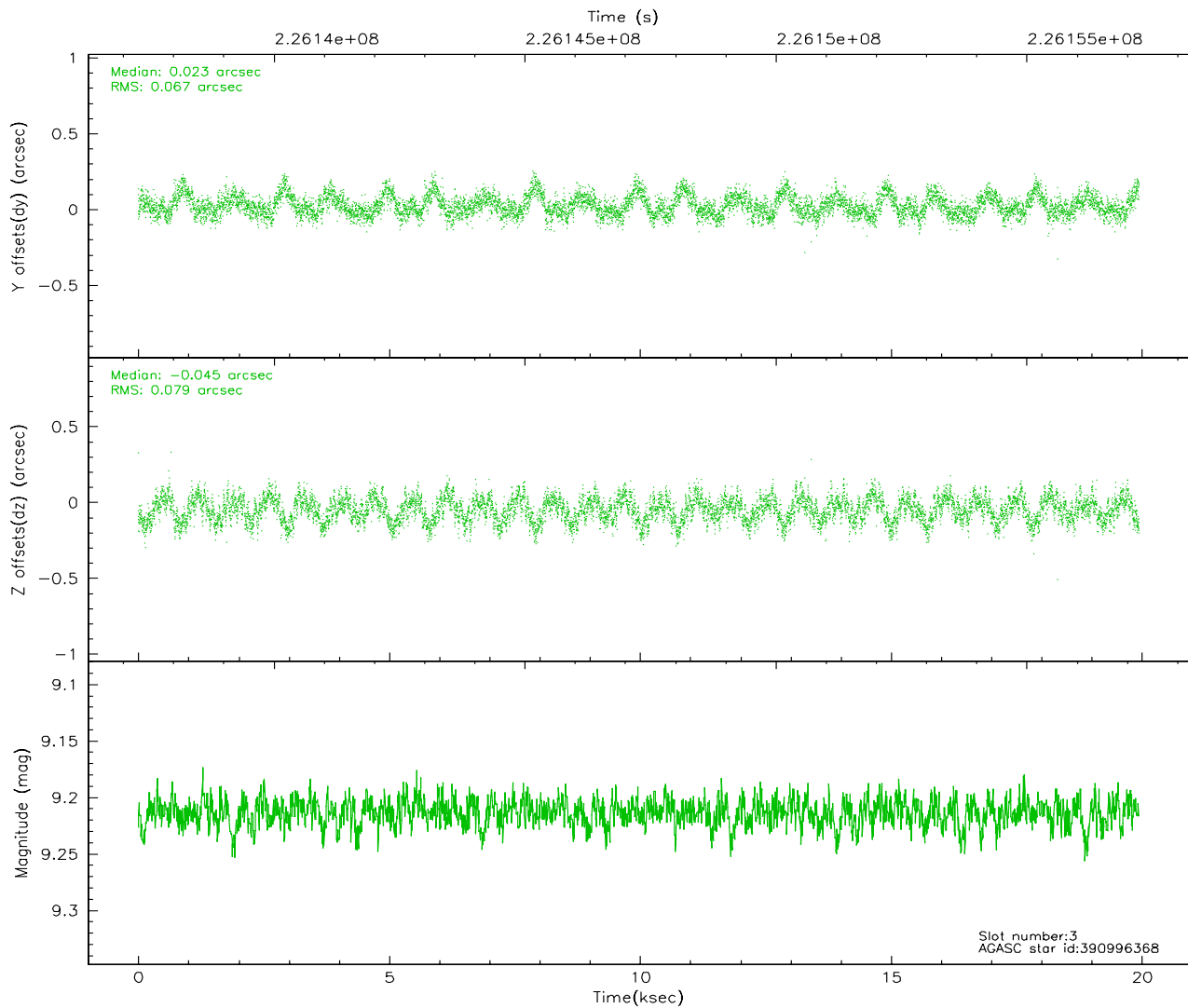
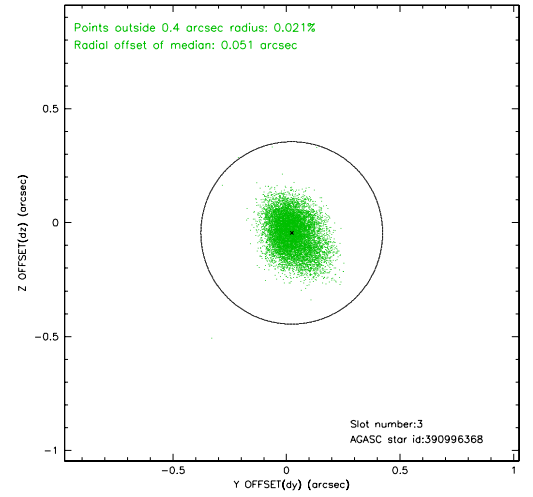
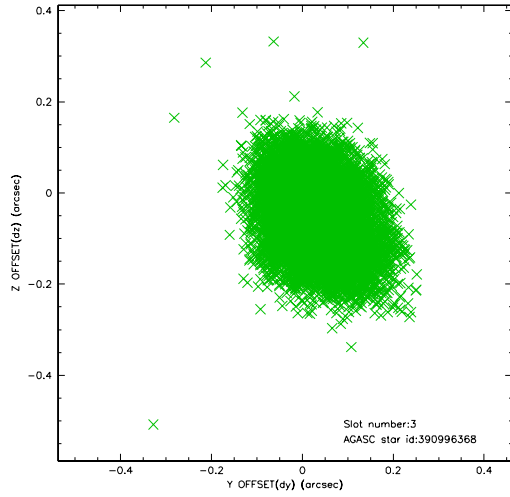


Slot Statistics

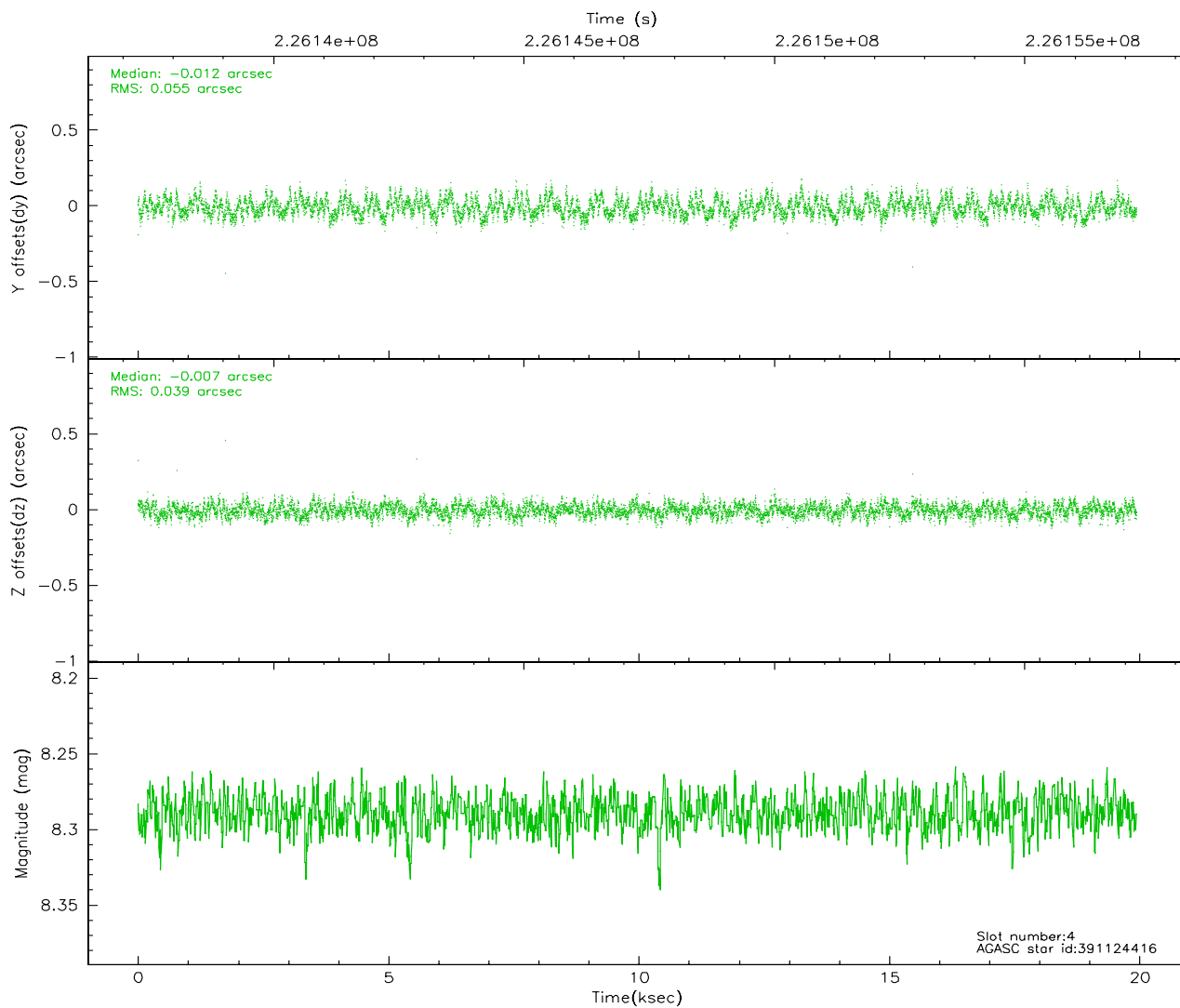
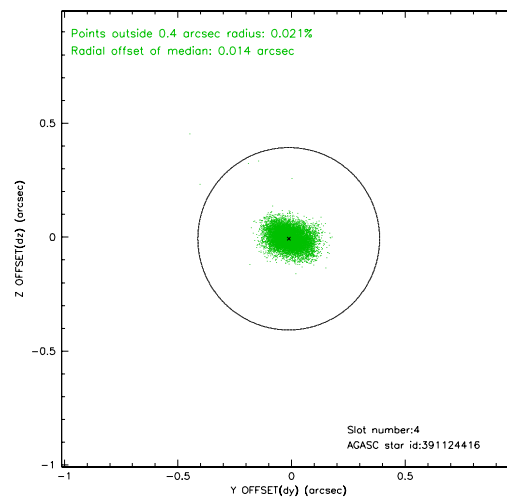
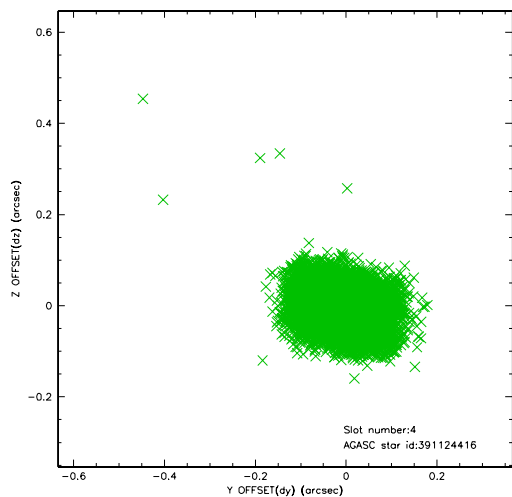
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 4864 | -0.018 | -0.012 | 0.007 | 0.012 | 0.000000 | 0.000000 | -760.53 | -1730.54 |
| 1 | FID | ACIS-S-4 | 7.21 | 4864 | 0.052 | 0.012 | 0.006 | 0.011 | 0.000000 | 0.000000 | 2152.70 | 177.82 |
| 2 | FID | ACIS-S-5 | 7.24 | 4864 | -0.065 | 0.009 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1813.20 | 171.64 |
| 3 | GUIDE | 390996368 | 9.21 | 9727 | 0.023 | -0.045 | 0.110 | 0.176 | 136.292846 | 39.913745 | 1118.20 | -1908.45 |
| 4 | GUIDE | 391124416 | 8.29 | 9726 | -0.012 | -0.007 | 0.071 | 0.116 | 137.712866 | 39.787688 | -1455.91 | 1088.39 |
| 5 | GUIDE | 391126168 | 9.44 | 9720 | 0.026 | -0.045 | 0.096 | 0.159 | 137.890130 | 39.560587 | -1270.62 | 2024.12 |
| 6 | GUIDE | 391387880 | 8.96 | 9711 | 0.030 | 0.053 | 0.090 | 0.145 | 136.392065 | 40.136594 | 369.66 | -2306.18 |
| 7 | GUIDE | 391516944 | 7.71 | 9726 | -0.074 | 0.050 | 0.064 | 0.100 | 137.454409 | 40.156231 | -1823.48 | -372.48 |

2.4 Star Slots

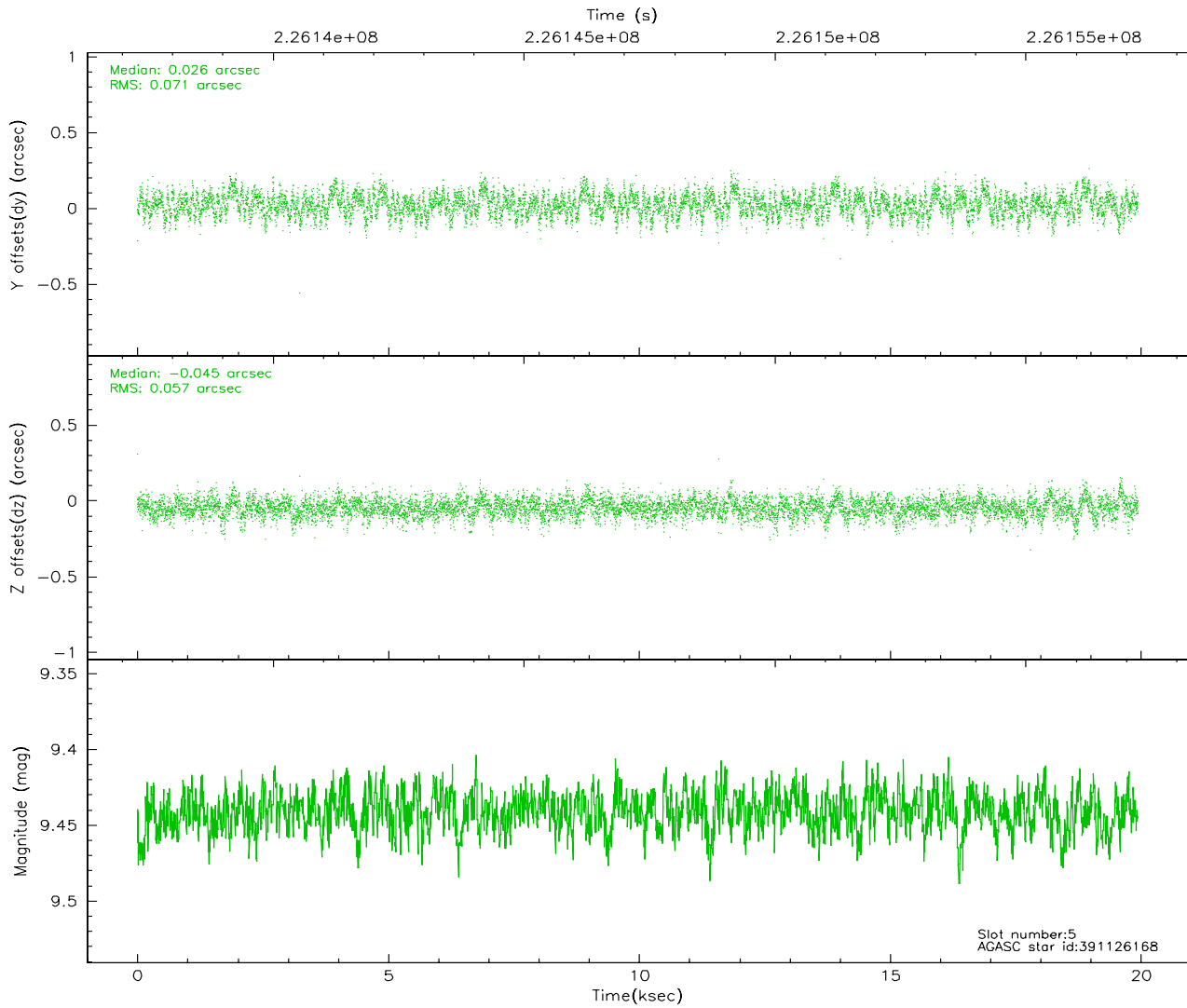
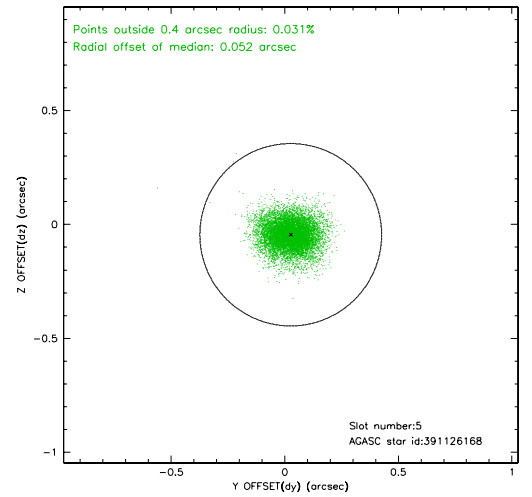
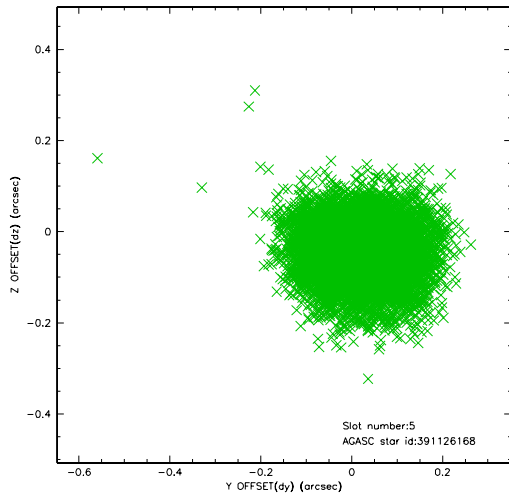
2.4.1 Slot 3



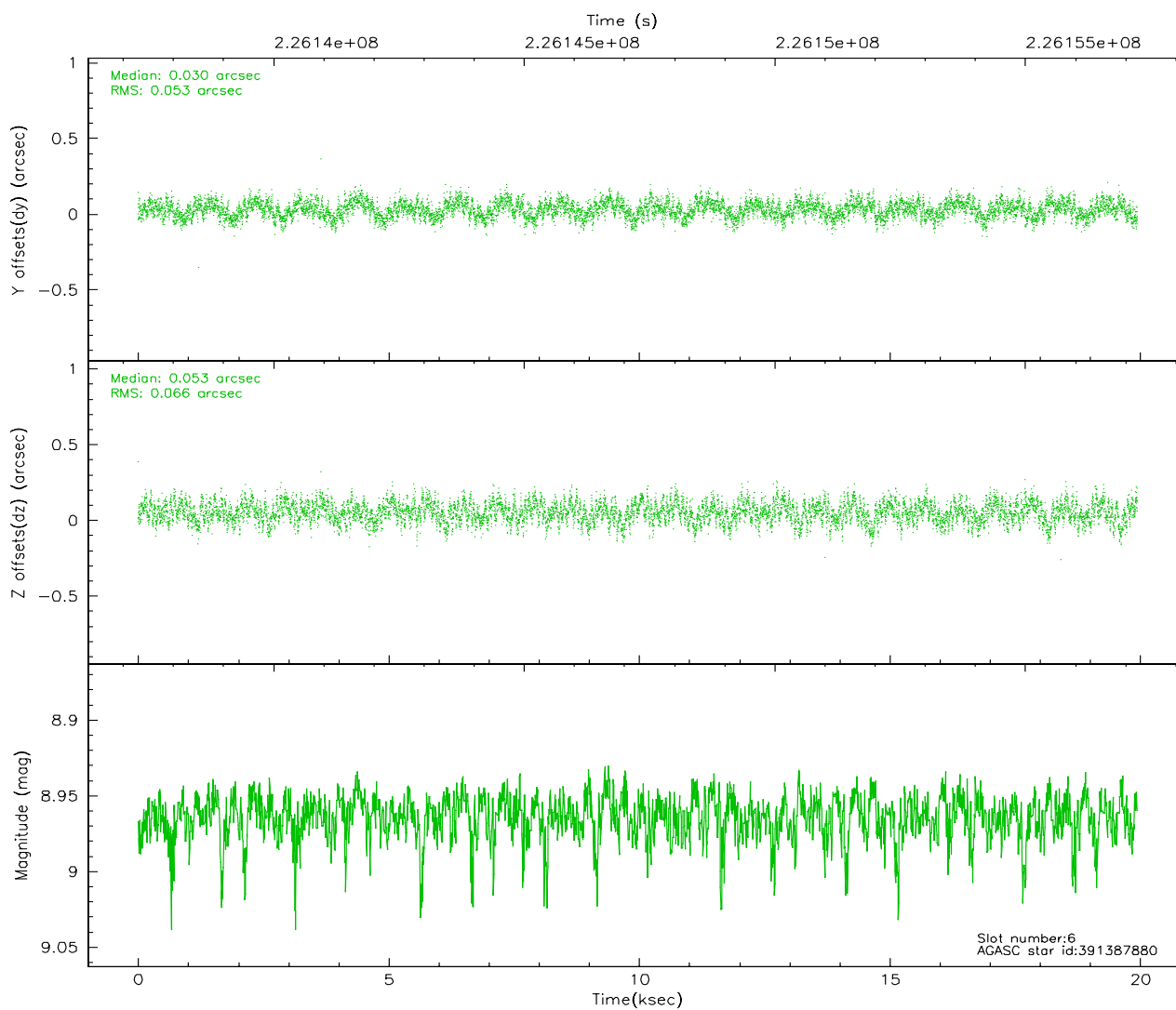
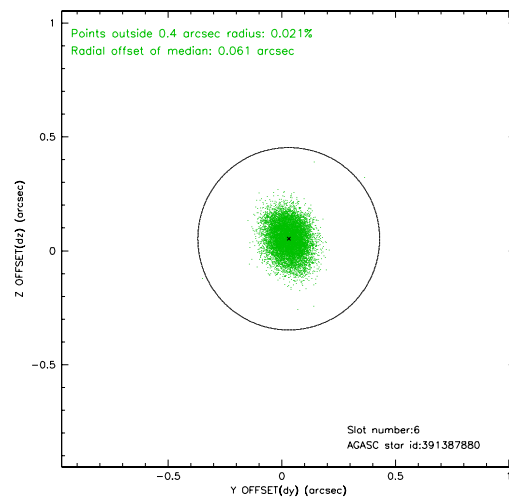
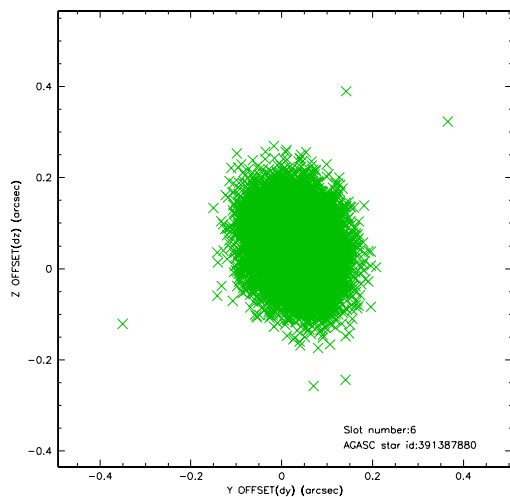
2.4.2 Slot 4



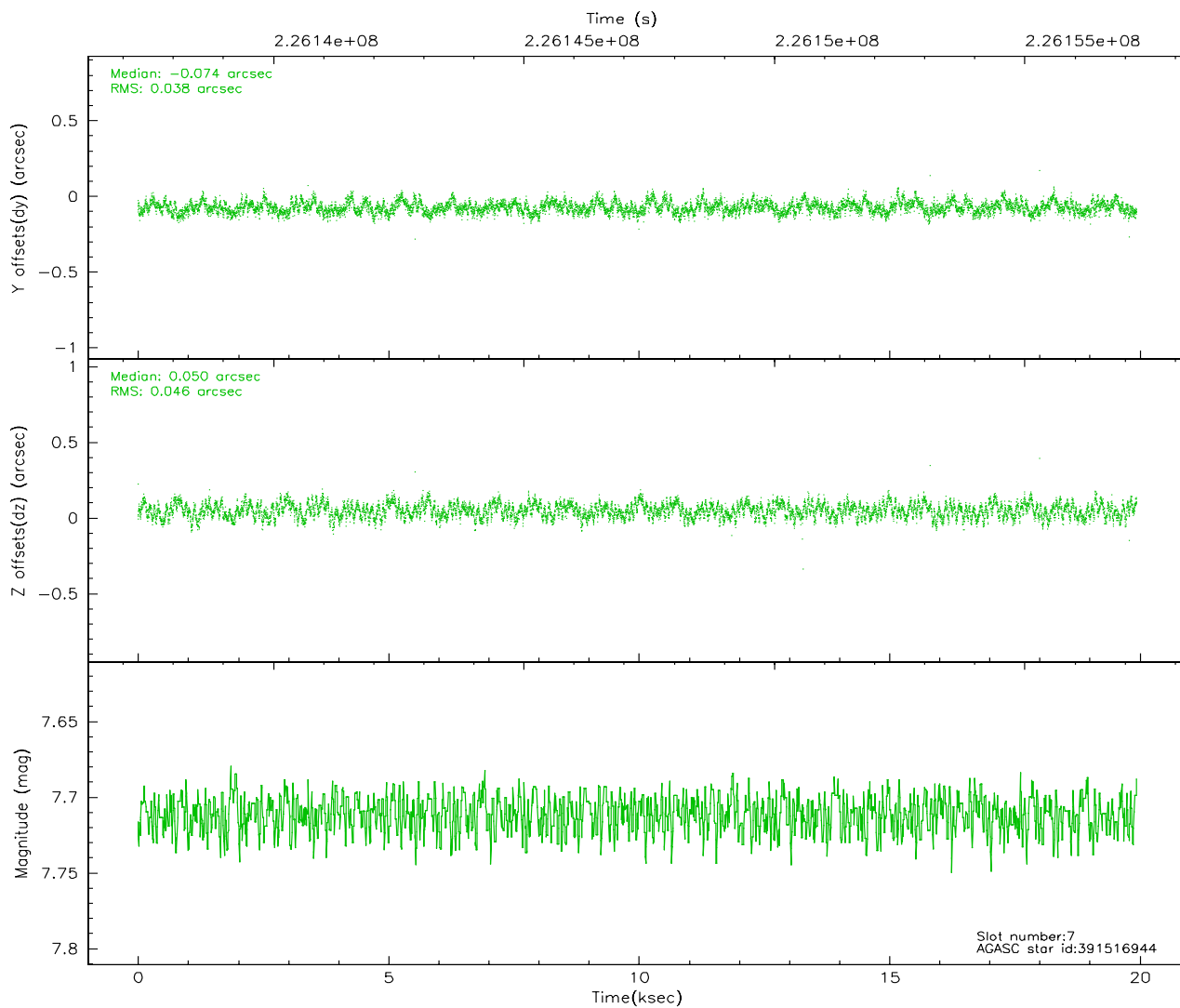
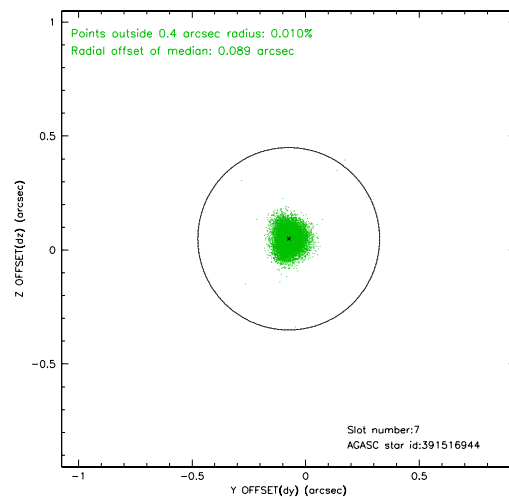
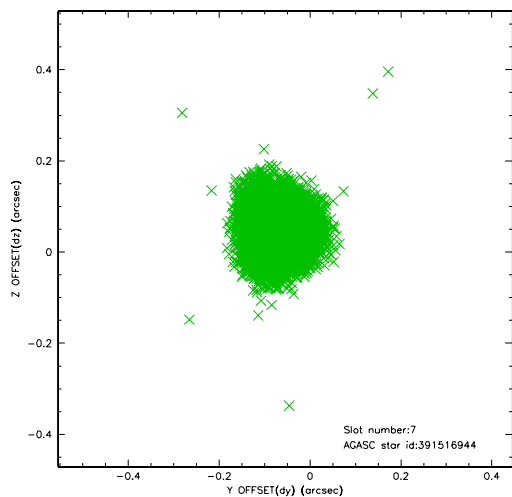
2.4.3 Slot 5



2.4.4 Slot 6

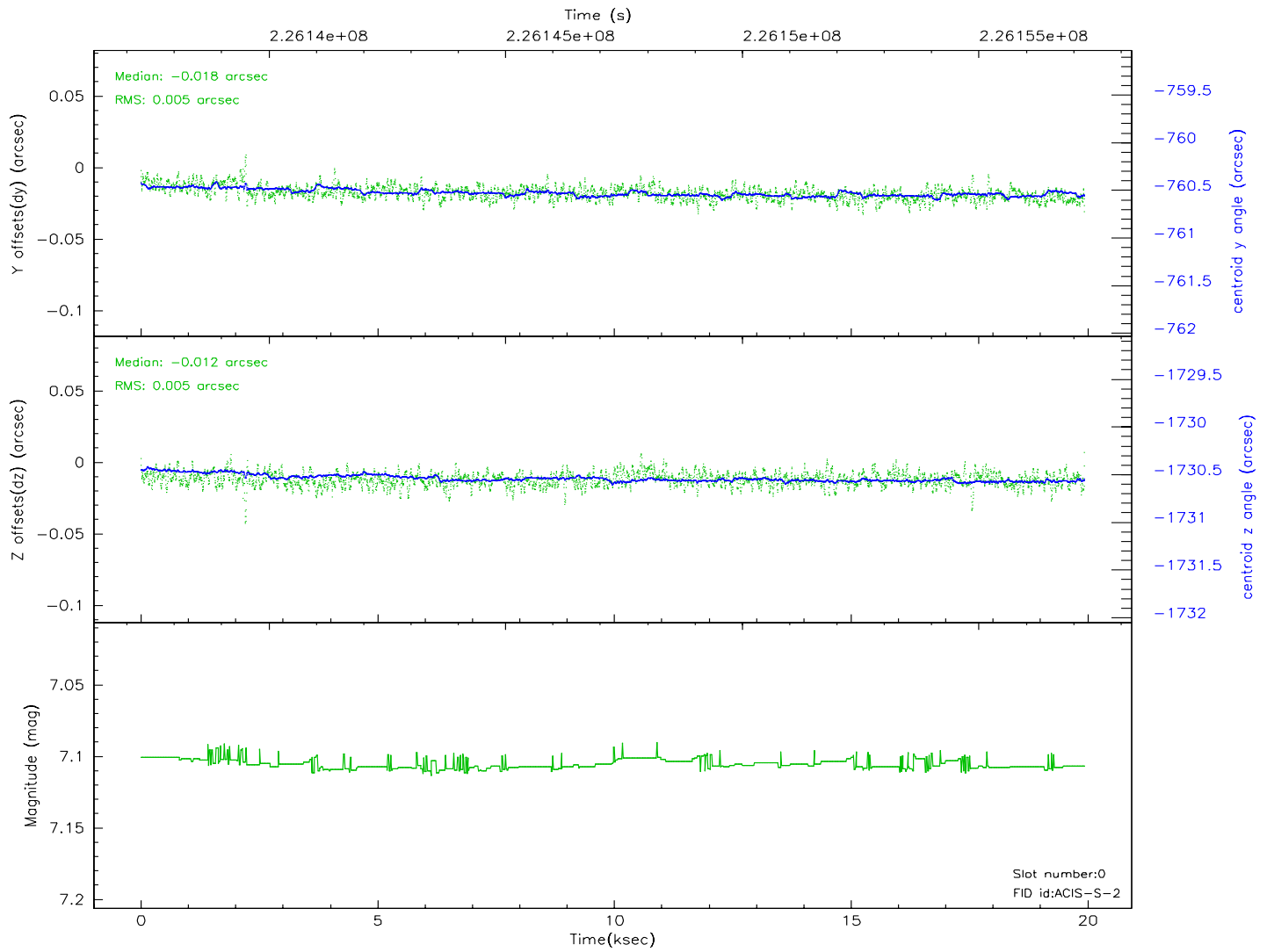
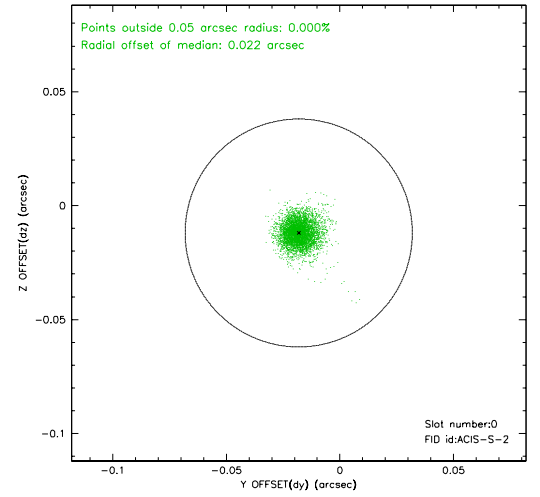
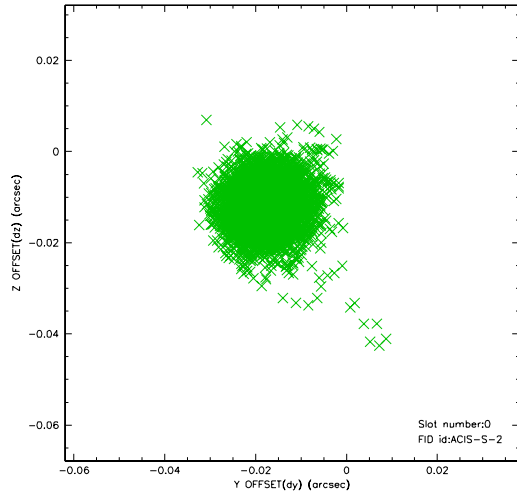


2.4.5 Slot 7

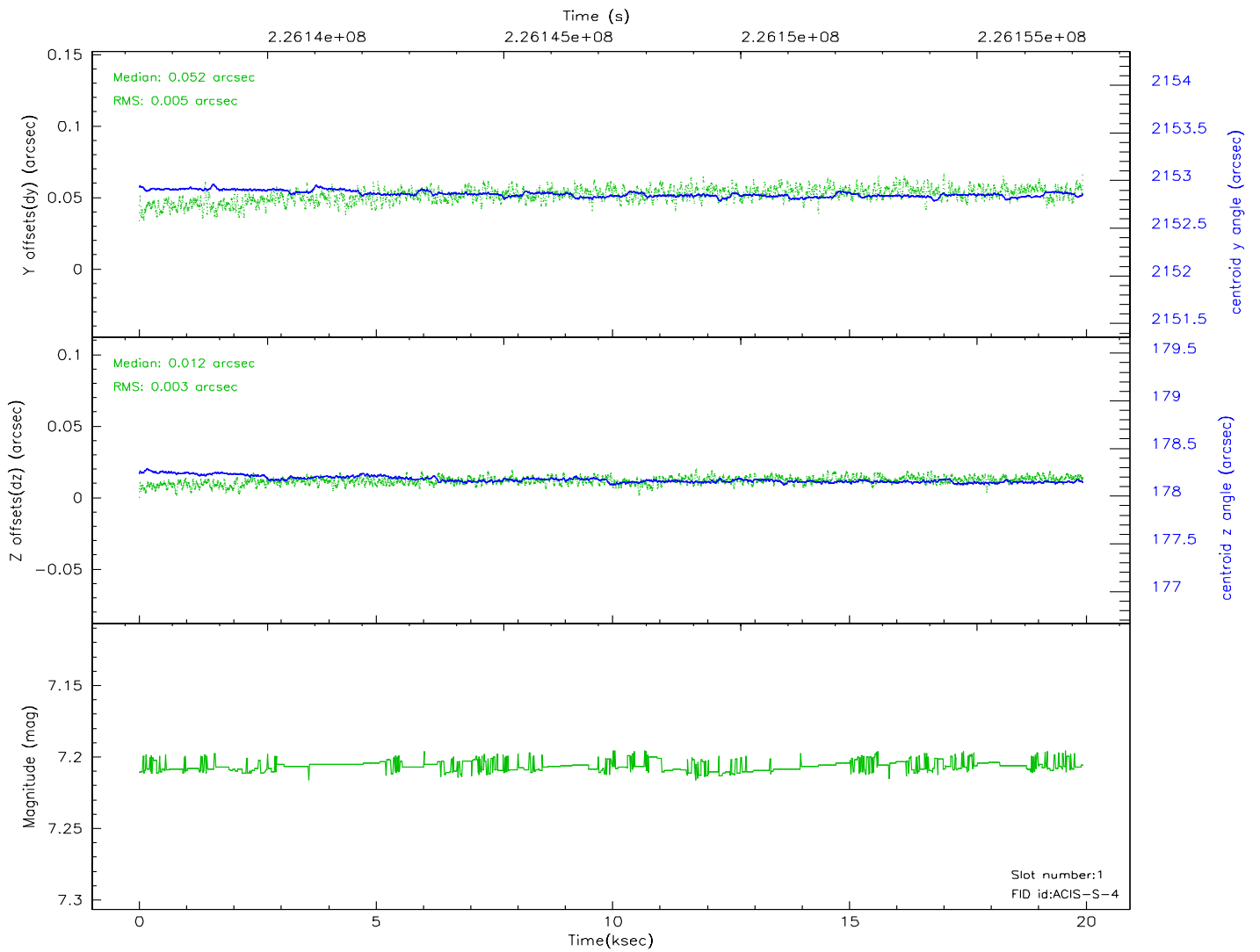
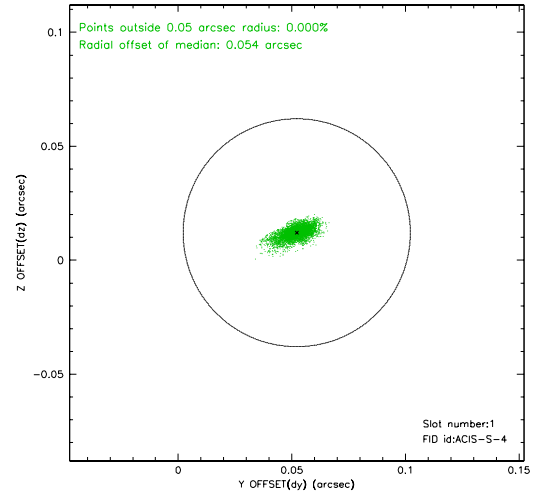
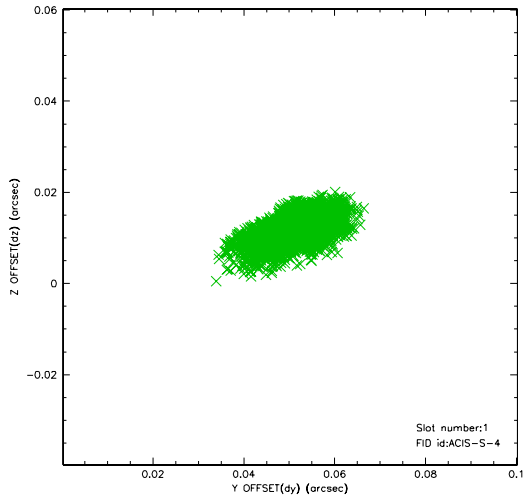


2.5 FID Slots

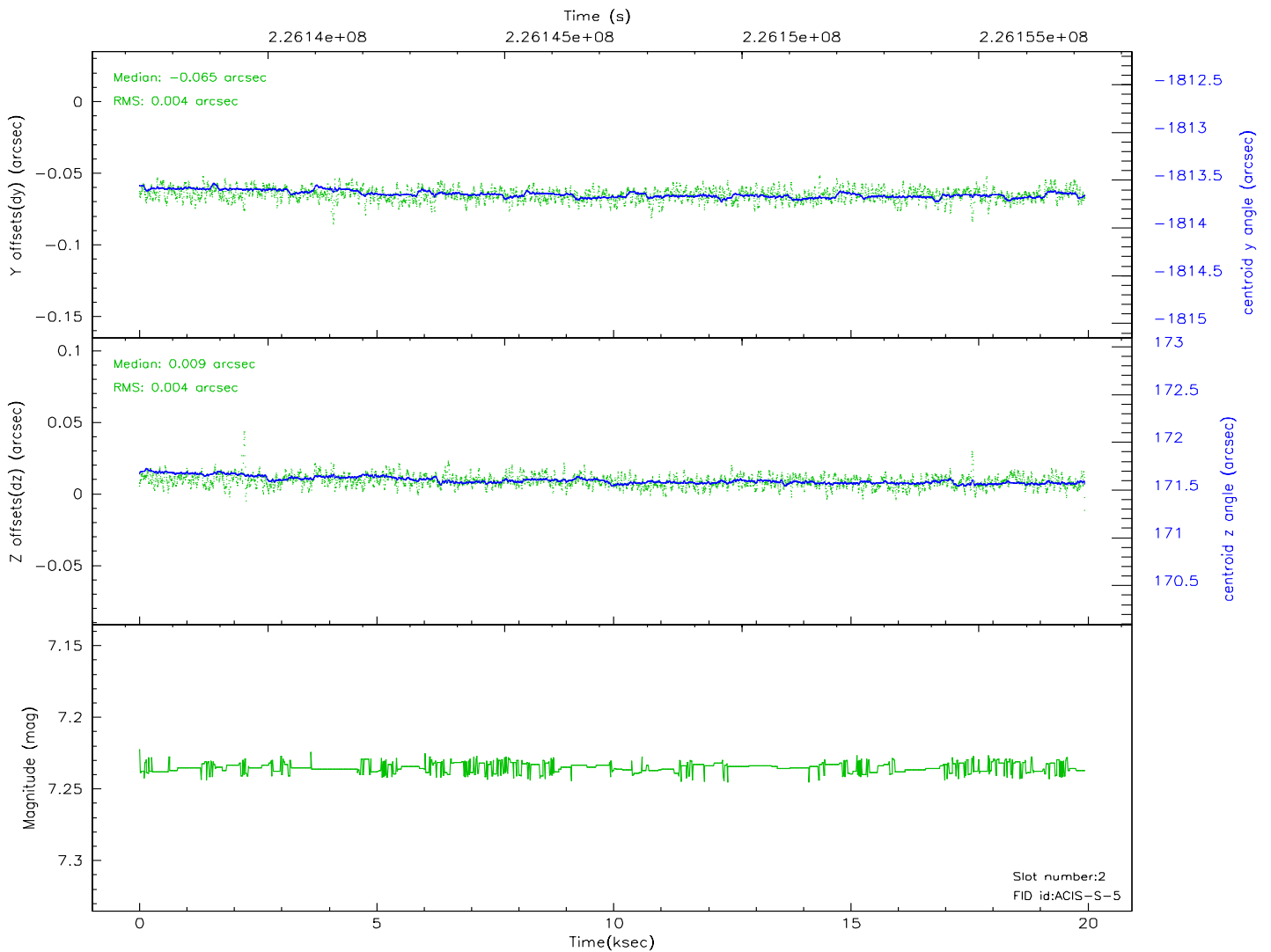
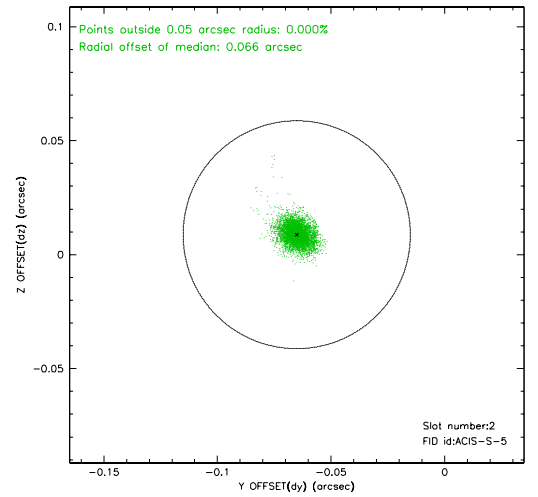
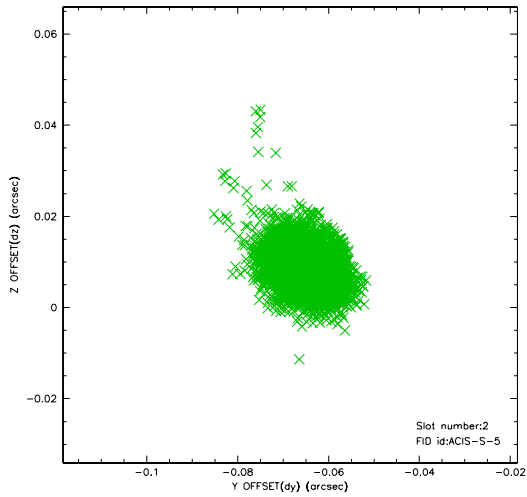
2.5.1 Slot 0



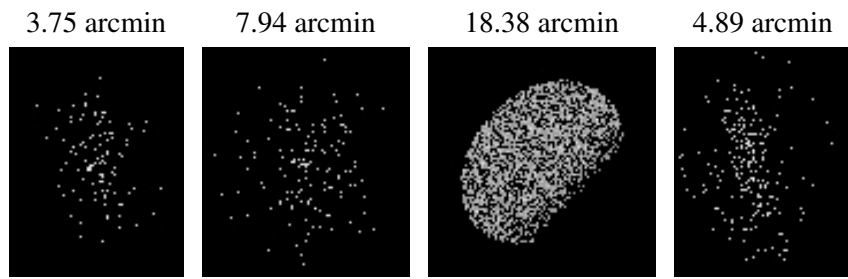
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Doug Morgan |
| V&V Date (YYYY-MM-DD) | 2006.02.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 19.93609 |

A.2 Comments