

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 5719 - L2 Version 2
Chandra X-Ray Center

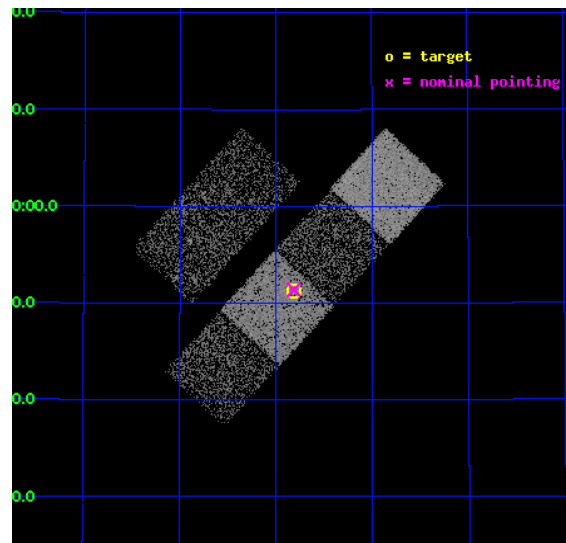
L2 Processing Date : Mar 28 2012

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1 Front

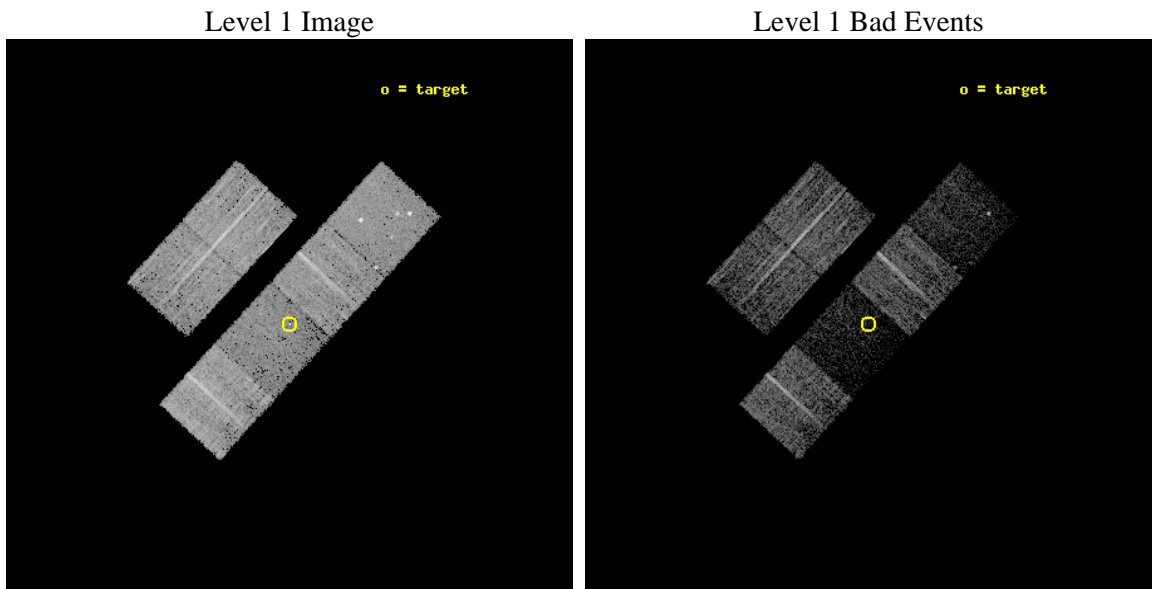
| | | |
|----------|--|---|
| seq_num | 701141 | Sequence number |
| obs_id | 5719 | Observation id |
| title | What kind of Jets does Nature make? X-ray characterization of the FIRST Flat Spectrum Sample | Proposal title |
| observer | Dr. Giovanni Fossati | Principal investigator |
| object | 87GB 1459+4803 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 225.202917 | Observer's specified target RA [deg] |
| dec_targ | 47.854333 | Observer's specified target Dec [deg] |
| ra_nom | 225.20341504433 | Nominal RA [deg] |
| dec_nom | 47.856343706916 | Nominal Dec [deg] |
| roll_nom | 132.56483263606 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 4751.9999822974 | Sum of GTIs [s] |
| livetime | 4691.8272972107 | Livetime [s] |
| ontime2 | 4751.9999822974 | Sum of GTIs [s] |
| ontime3 | 4751.9999822974 | Sum of GTIs [s] |
| ontime5 | 4751.9999822974 | Sum of GTIs [s] |
| ontime6 | 4751.9999822974 | Sum of GTIs [s] |
| ontime7 | 4751.9999822974 | Sum of GTIs [s] |
| ontime8 | 4748.7590020299 | Sum of GTIs [s] |
| l2events | 32423 | Number of level 2 events |



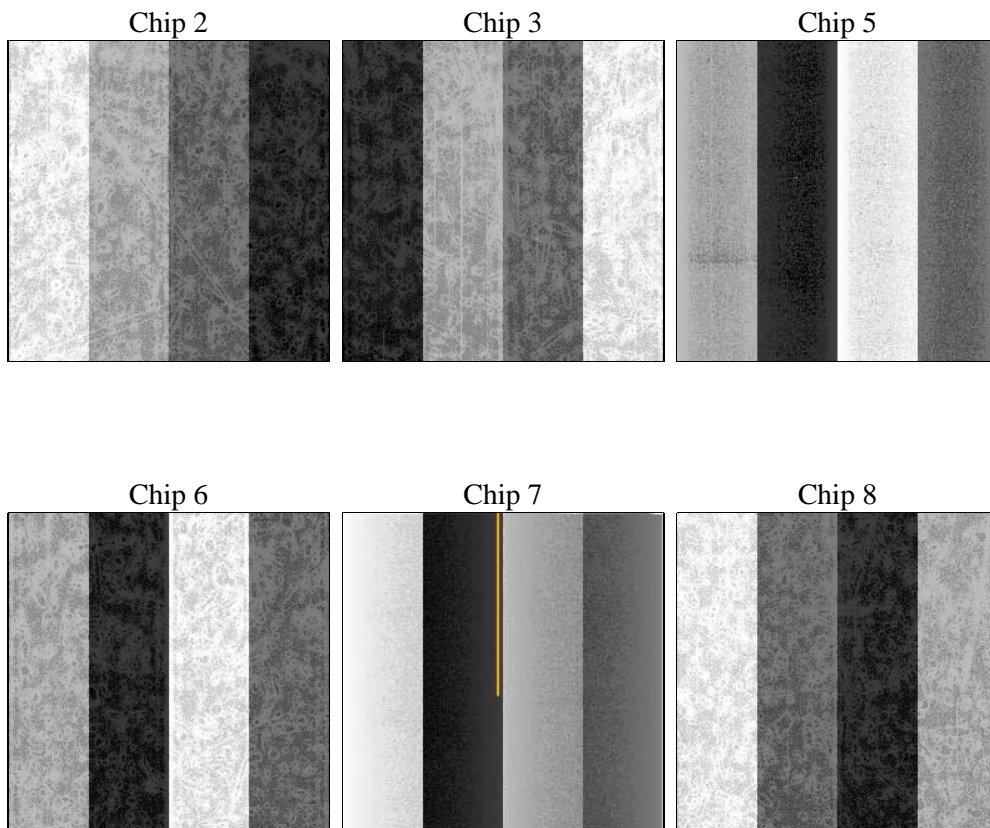
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 2 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 4751.9999822974 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime2 | 4751.9999822974 | Sum of GTIs [s] |
| date | 2012-03-28T21:19:14 | Date and time of file creation | ontime3 | 4751.9999822974 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 4751.9999822974 | Sum of GTIs [s] |
| | | | ontime6 | 4751.9999822974 | Sum of GTIs [s] |
| | | | ontime7 | 4751.9999822974 | Sum of GTIs [s] |
| | | | ontime8 | 4748.7590020299 | Sum of GTIs [s] |
| | | | l1events | 174108 | Number of level 1 events |

2.1.4 Events

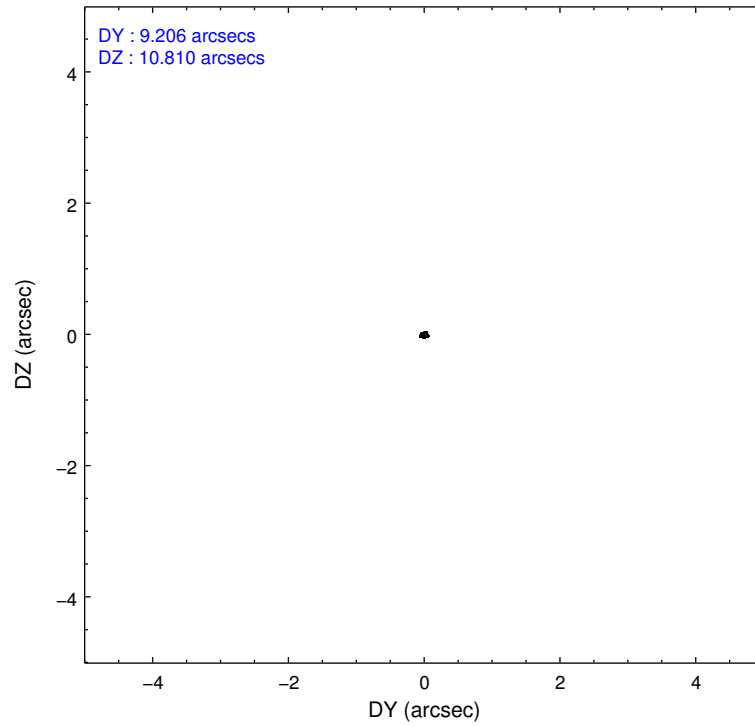
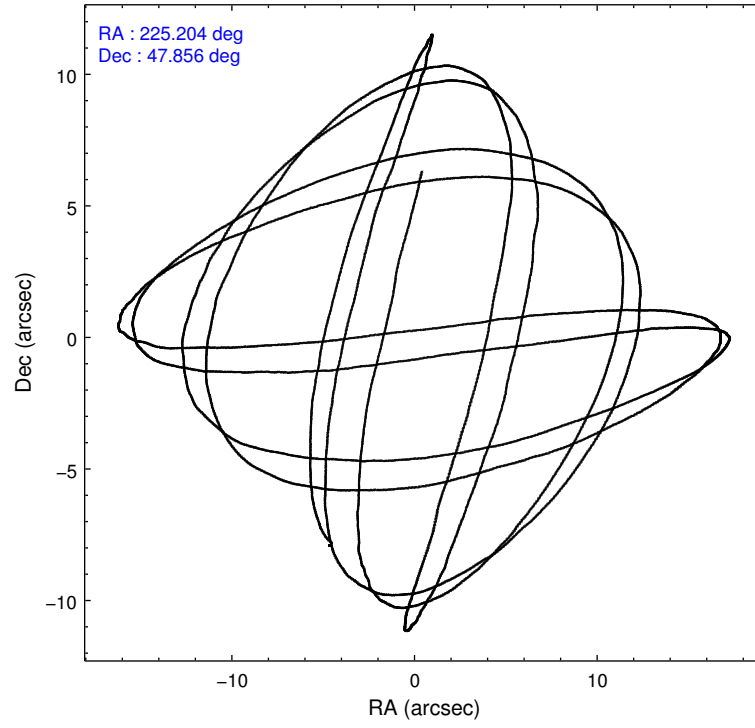
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 34136 | 27533 | 26843 | 30100 | 17485 | 38011 |
| rejected events | 31551 | 25055 | 10414 | 27355 | 7243 | 29288 |
| rejected % | 92% | 90% | 38% | 90% | 41% | 77% |

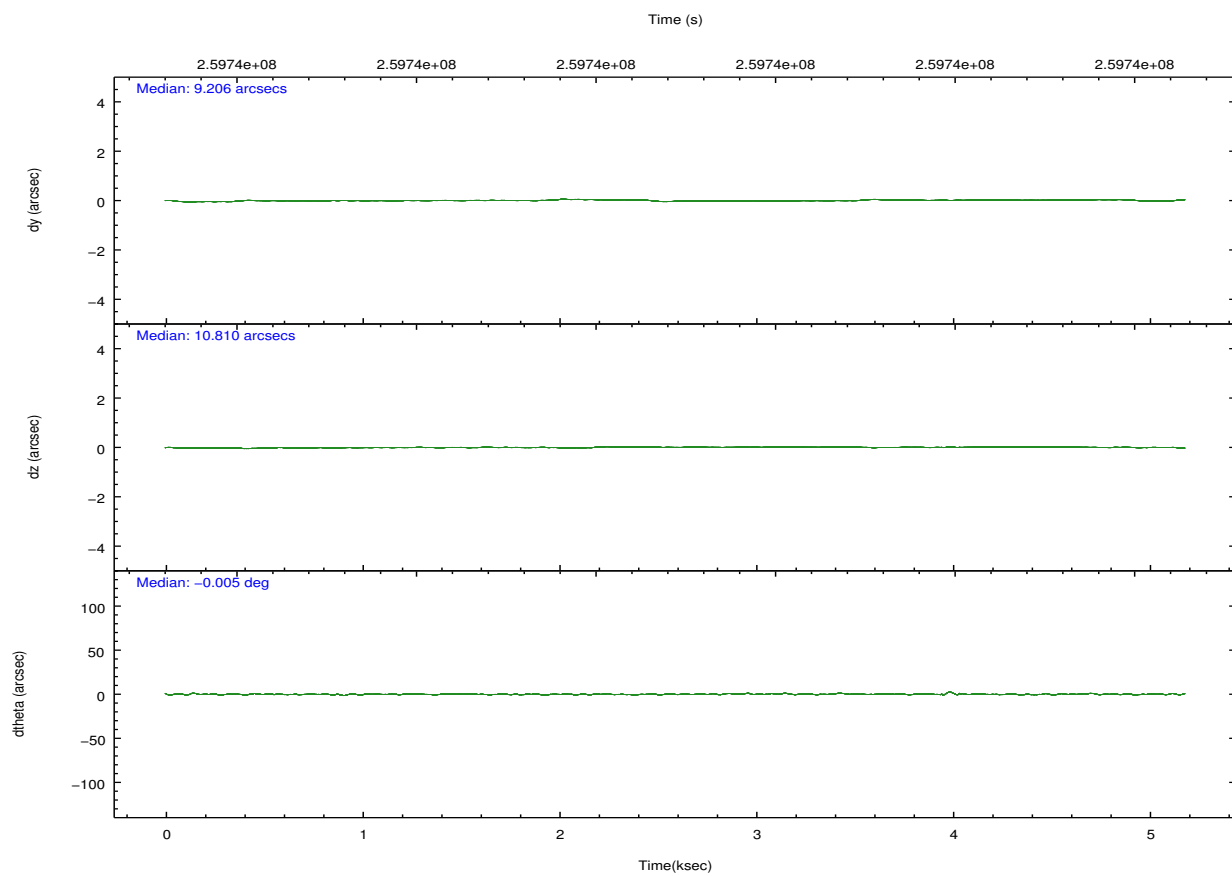
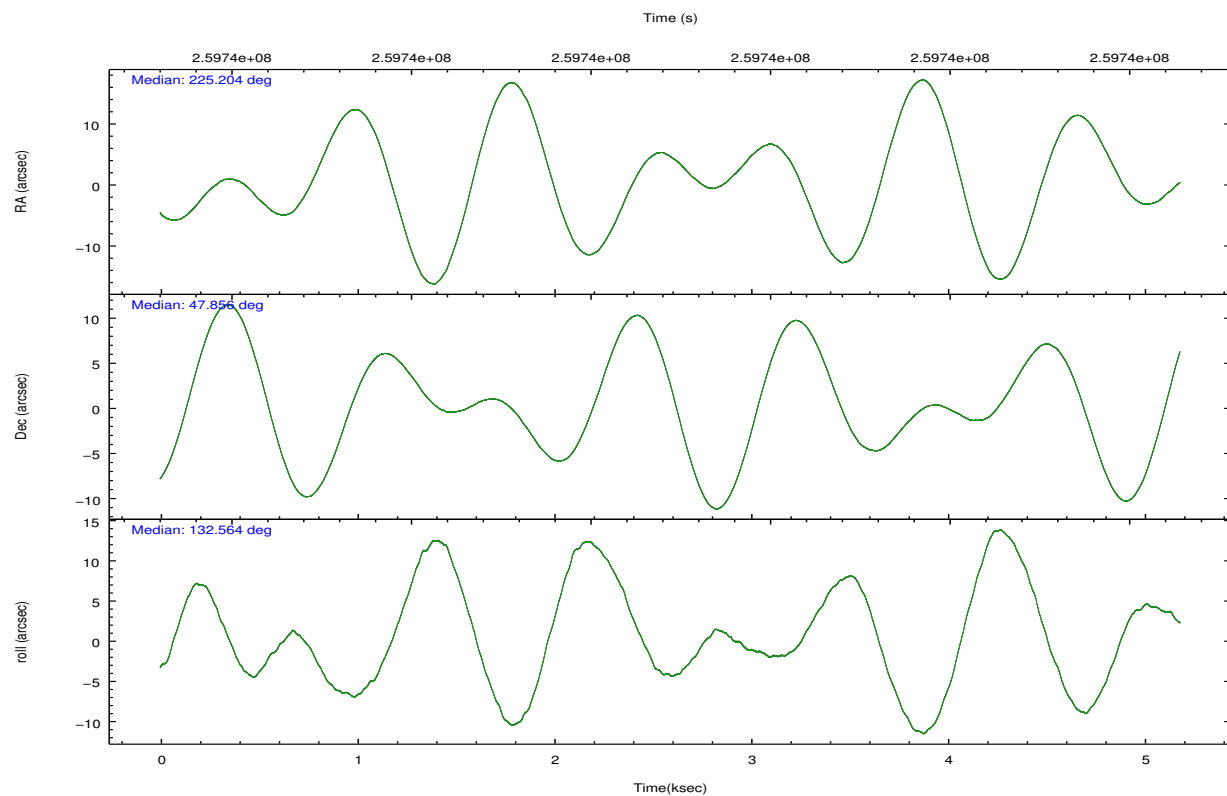
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 1045 | 1028 | 2835 | 1104 | 1284 | 2575 |
| | 3% | 3% | 10% | 3% | 7% | 6% |
| grade 1 events | 16 | 12 | 304 | 13 | 26 | 43 |
| | 0% | 0% | 1% | 0% | 0% | 0% |
| grade 2 events | 654 | 496 | 5022 | 596 | 2393 | 1927 |
| | 1% | 1% | 18% | 1% | 13% | 5% |
| grade 3 events | 261 | 299 | 909 | 300 | 1075 | 992 |
| | 0% | 1% | 3% | 0% | 6% | 2% |
| grade 4 events | 270 | 285 | 819 | 289 | 1056 | 912 |
| | 0% | 1% | 3% | 0% | 6% | 2% |
| grade 5 events | 527 | 564 | 2195 | 582 | 1788 | 1032 |
| | 1% | 2% | 8% | 1% | 10% | 2% |
| grade 6 events | 356 | 372 | 6863 | 457 | 4450 | 2327 |
| | 1% | 1% | 25% | 1% | 25% | 6% |
| grade 7 events | 31007 | 24477 | 7896 | 26759 | 5413 | 28203 |
| | 90% | 88% | 29% | 88% | 30% | 74% |

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 | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 225.242385 | 225.2034150443251 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 47.848569 | 47.8563437069163 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 132.379316 | 132.5648326360599 | [s] Primary exposure time | 0.000000 | 3.2 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 259740032.184000 | 259739538.2664 | | | |
| Observation start date | 2006-03-26T05:59:27 | 2006-03-26T05:52:18 | | | |
| [s] Observation end time (MET) | 259745032.184000 | 259745429.96668 | | | |
| Observation end date | 2006-03-26T07:22:47 | 2006-03-26T07:30:29 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



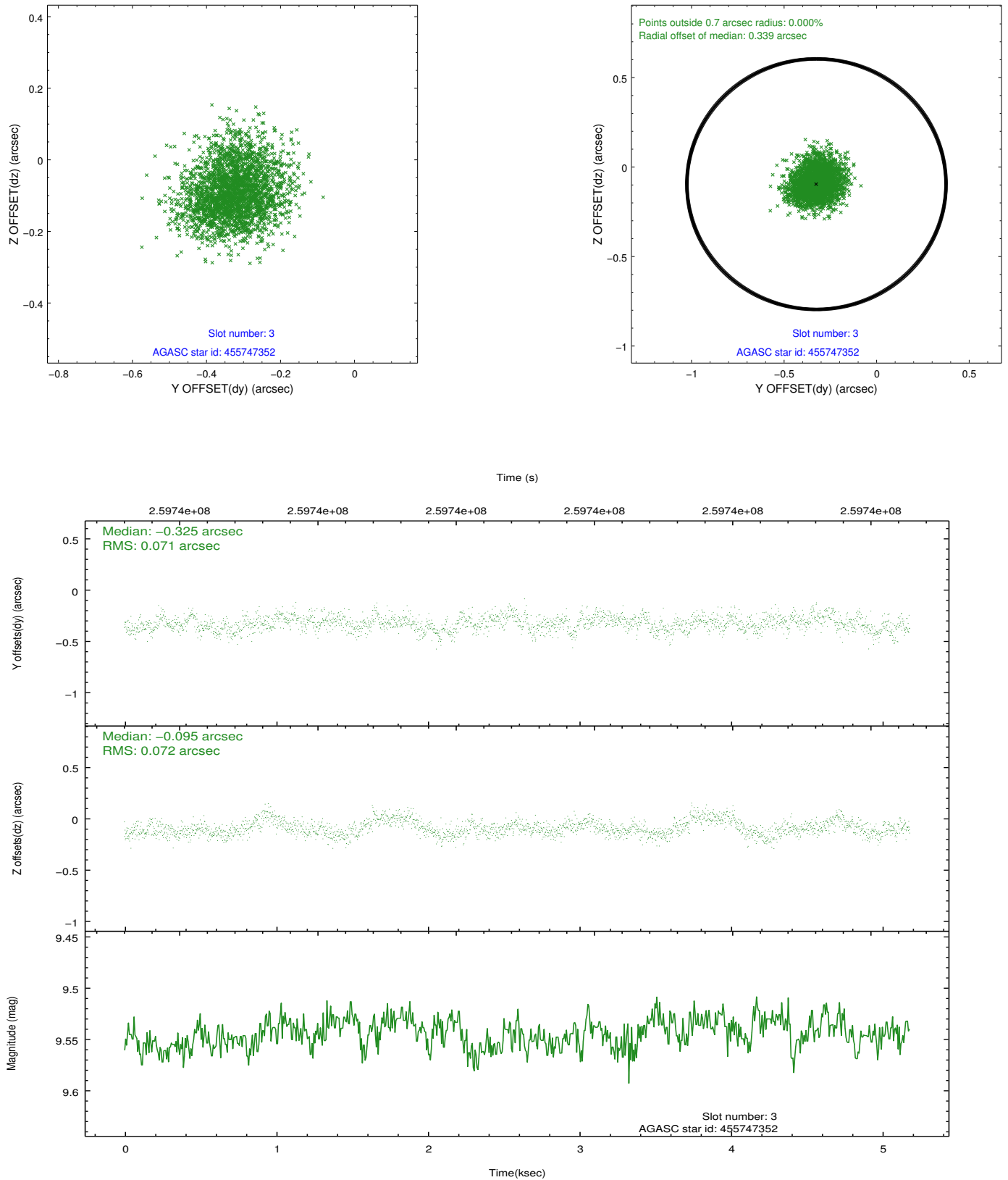


Slot Statistics

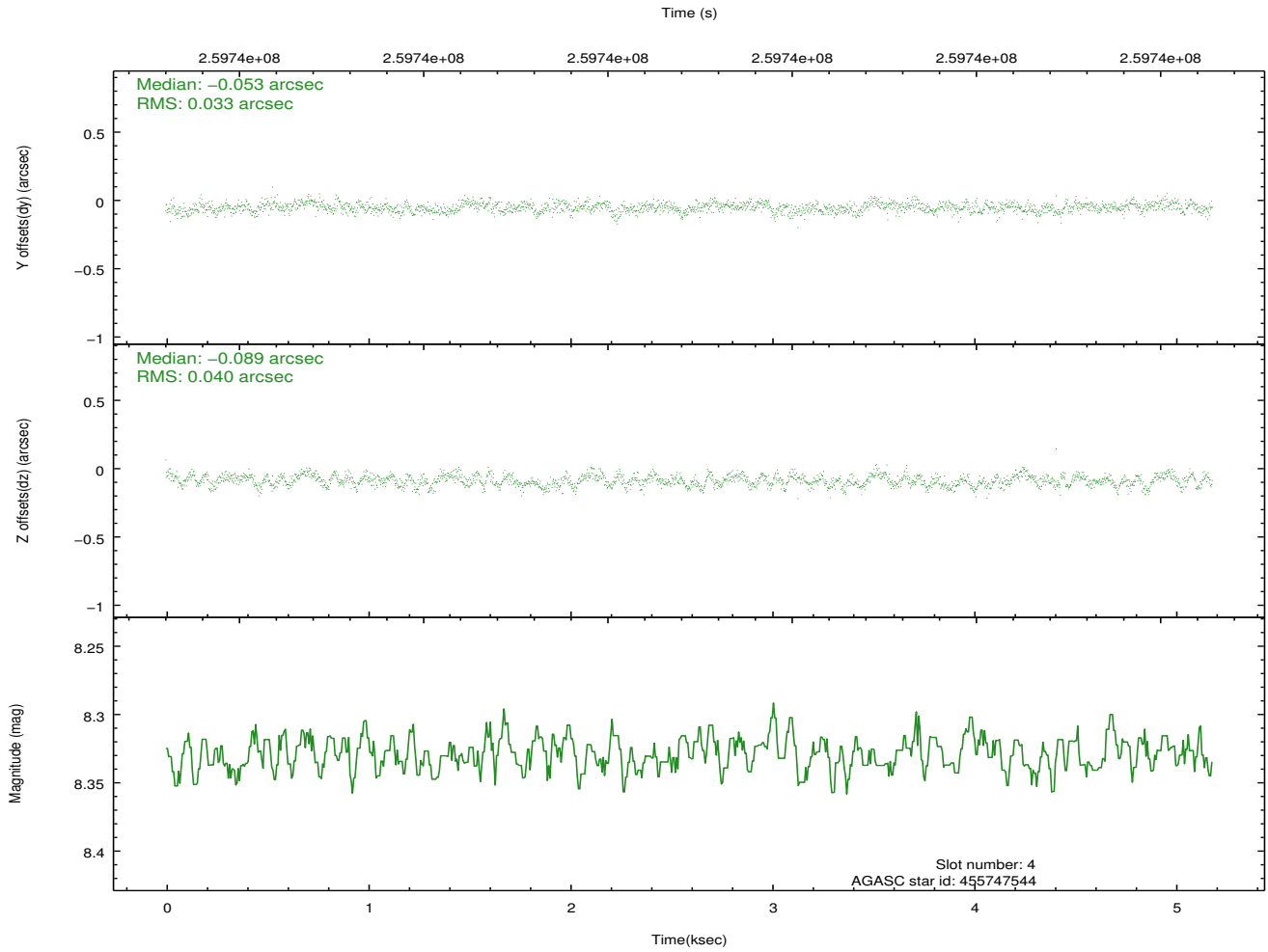
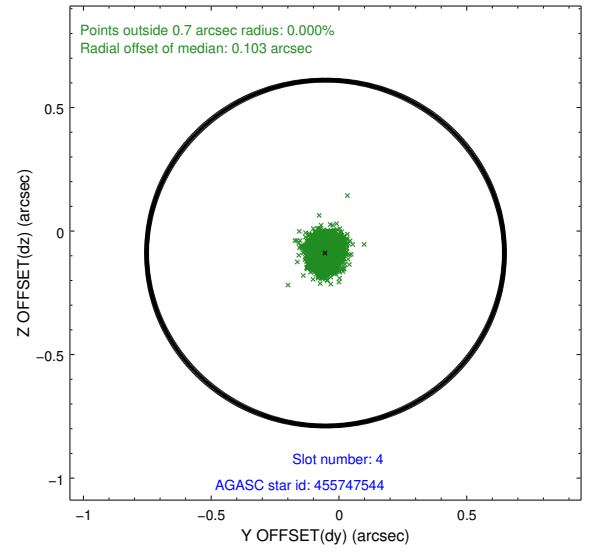
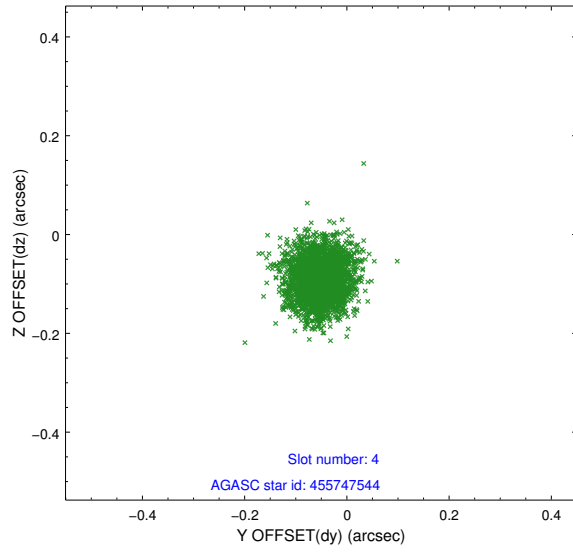
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 1264 | -0.050 | -0.024 | 0.006 | 0.010 | 0.000000 | 0.000000 | -762.04 | -1732.11 |
| 1 | FID | ACIS-S-4 | 7.21 | 1264 | 0.169 | 0.031 | 0.006 | 0.011 | 0.000000 | 0.000000 | 2150.89 | 175.27 |
| 2 | FID | ACIS-S-5 | 7.23 | 1264 | -0.150 | 0.002 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1813.51 | 170.17 |
| 3 | GUIDE | 455747352 | 9.54 | 2526 | -0.325 | -0.095 | 0.107 | 0.174 | 224.330497 | 48.092372 | 2136.07 | 1019.30 |
| 4 | GUIDE | 455747544 | 8.33 | 2526 | -0.053 | -0.089 | 0.056 | 0.088 | 224.528187 | 48.028859 | 1645.66 | 828.53 |
| 5 | GUIDE | 456663544 | 8.47 | 2527 | 0.234 | 0.262 | 0.070 | 0.115 | 225.753297 | 47.731314 | -1141.47 | -631.52 |
| 6 | GUIDE | 456665064 | 9.15 | 2525 | 0.155 | -0.076 | 0.077 | 0.127 | 225.474071 | 47.940204 | -132.31 | -636.02 |
| 7 | GUIDE | 456665928 | 8.48 | 2527 | -0.011 | -0.003 | 0.068 | 0.113 | 225.621888 | 47.743379 | -896.96 | -425.14 |

2.4 Star Slots

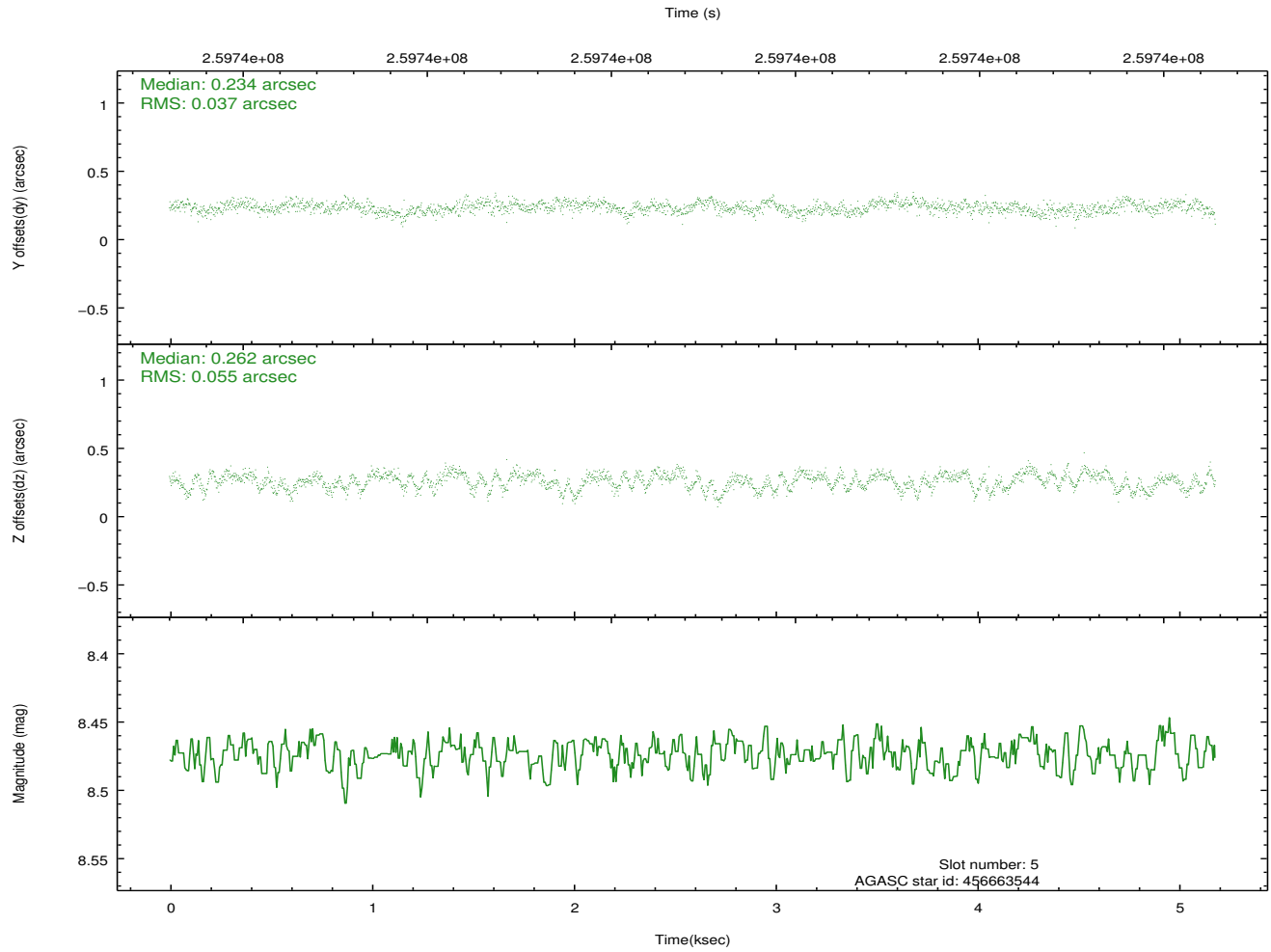
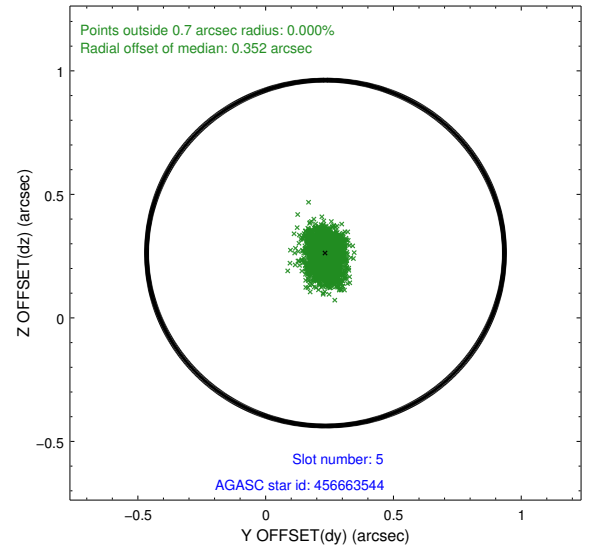
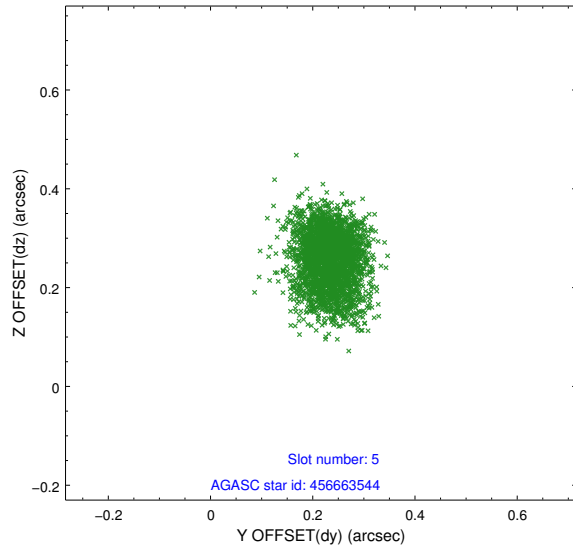
2.4.1 Slot 3



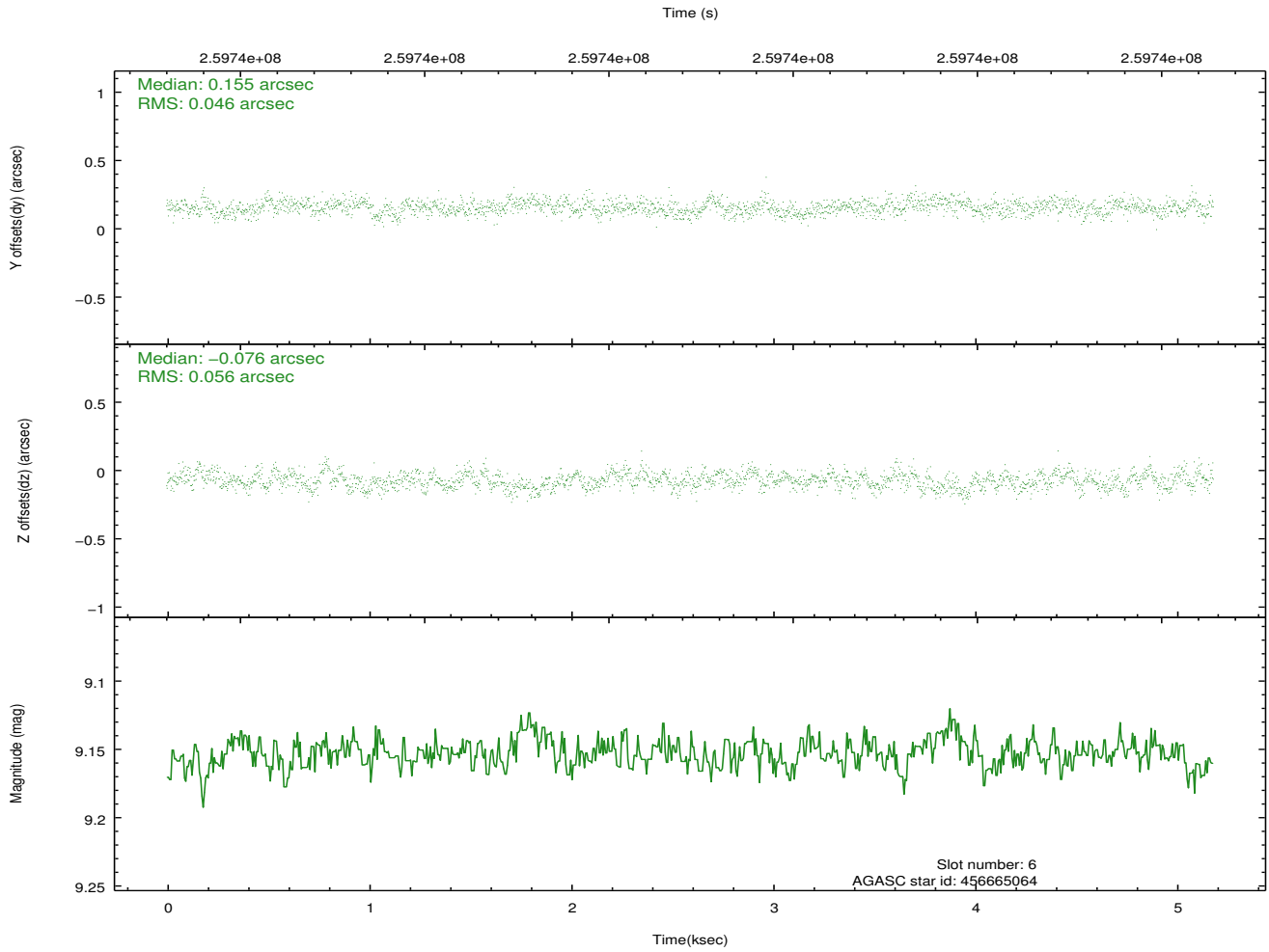
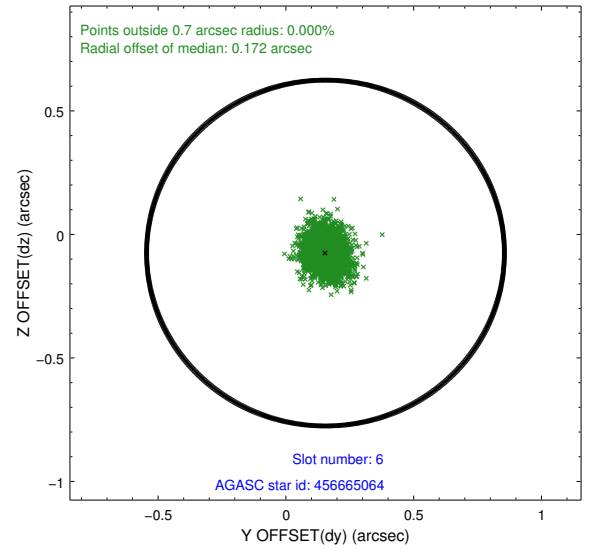
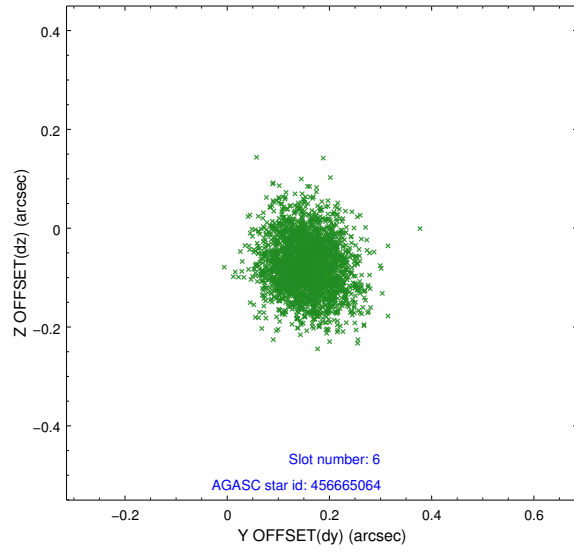
2.4.2 Slot 4



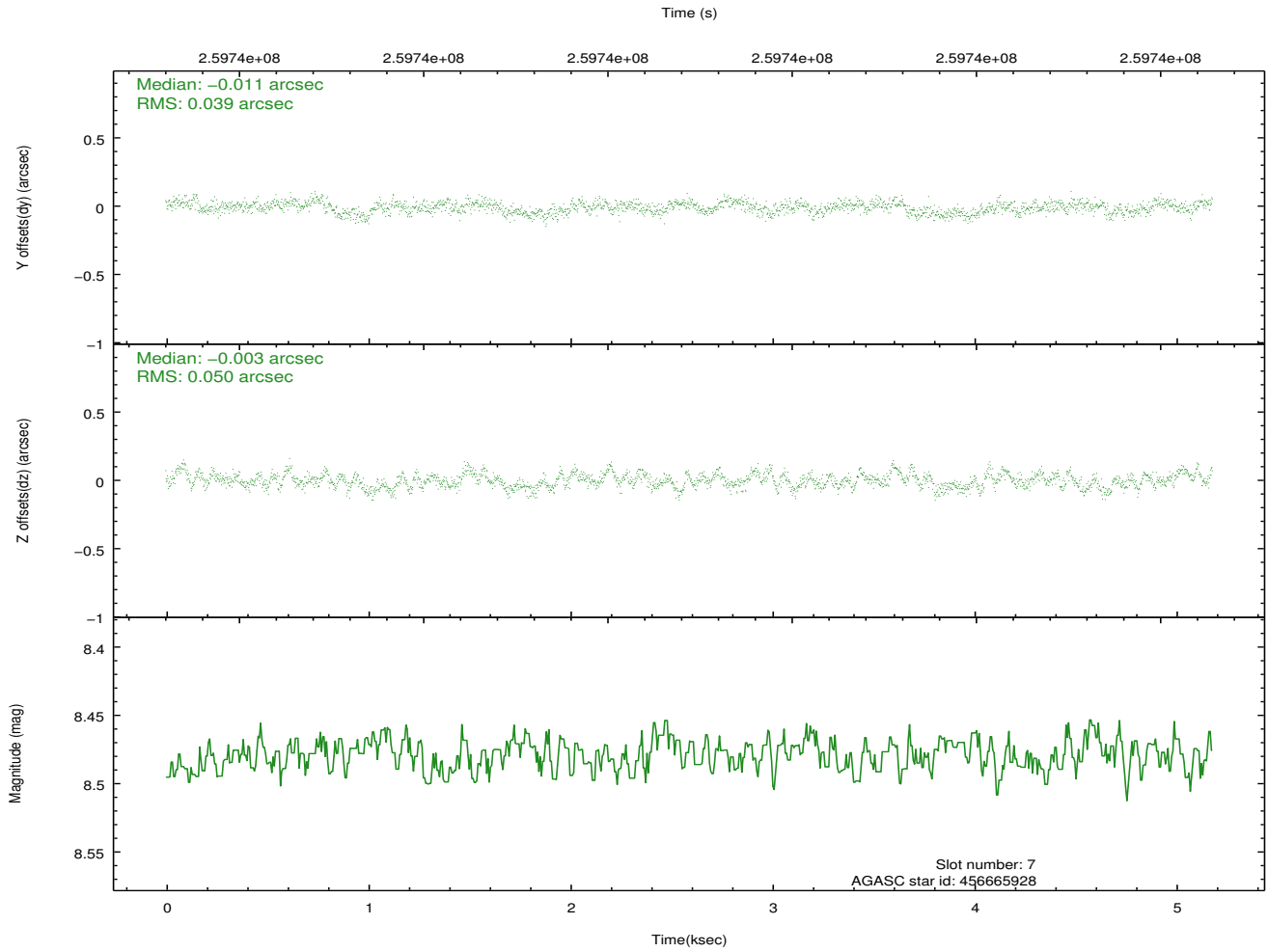
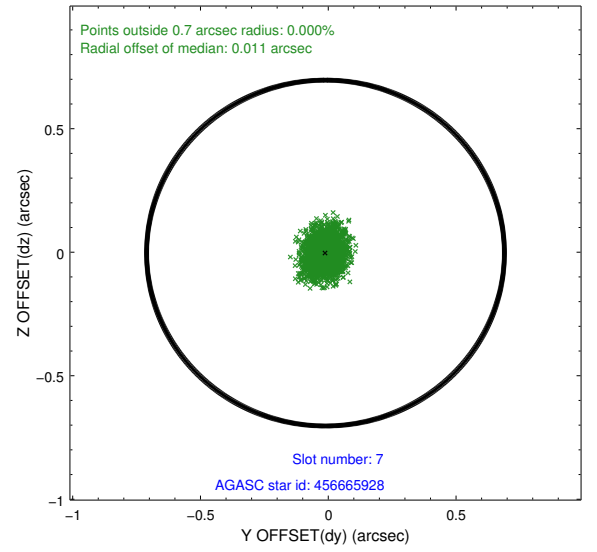
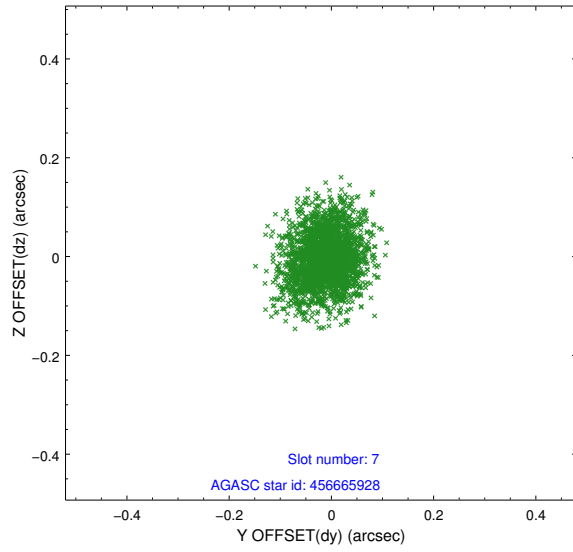
2.4.3 Slot 5



2.4.4 Slot 6

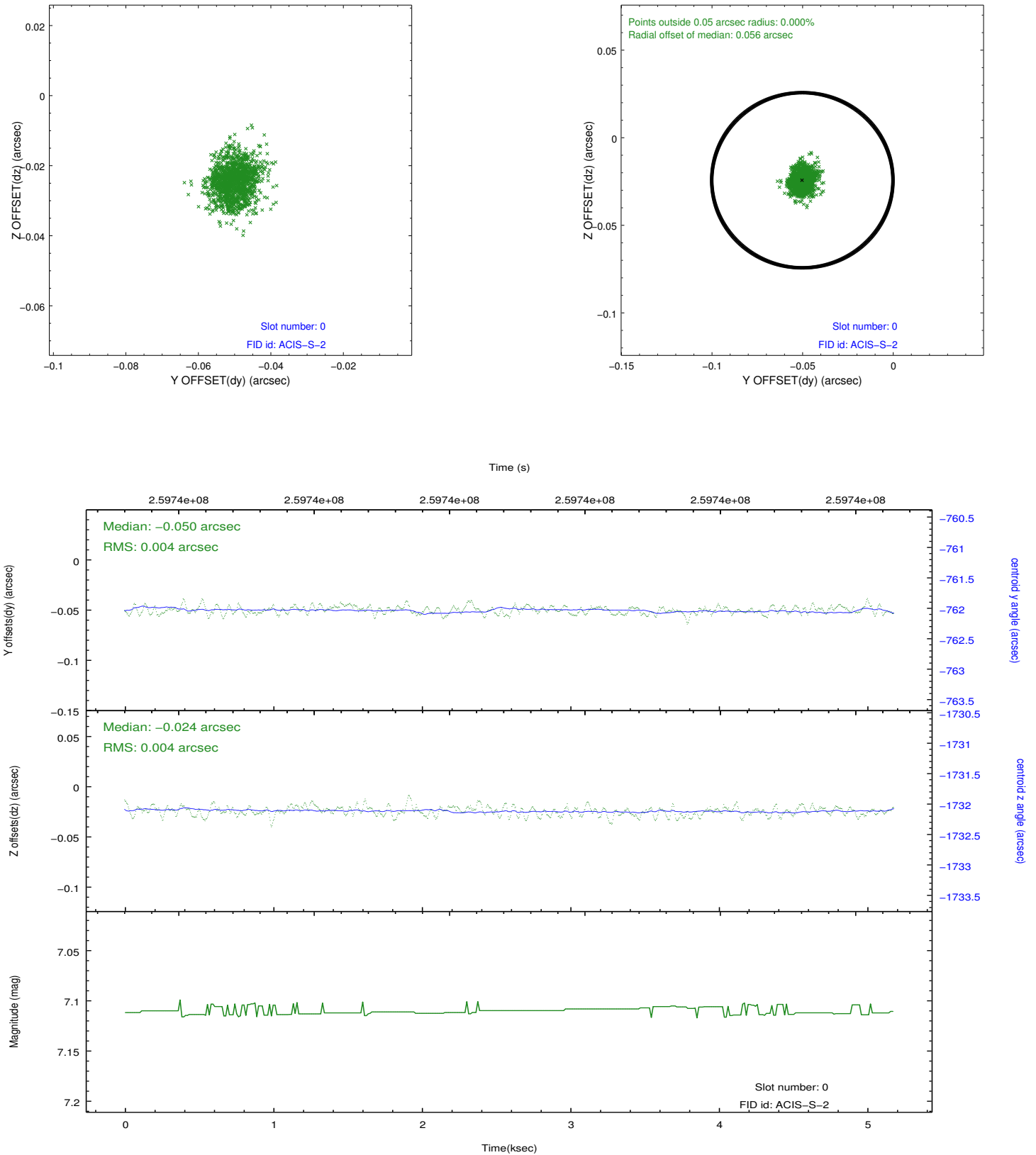


2.4.5 Slot 7

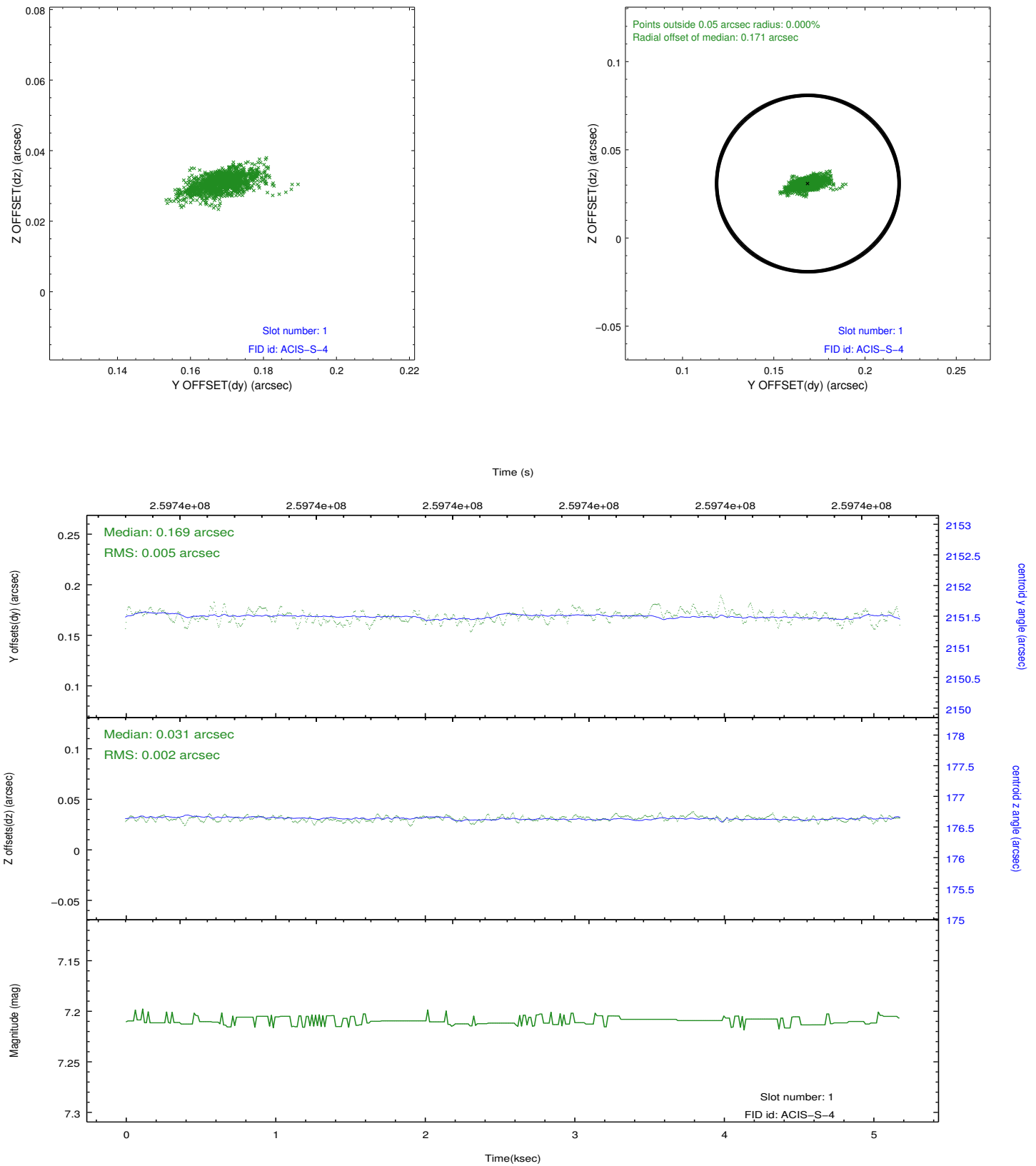


2.5 FID Slots

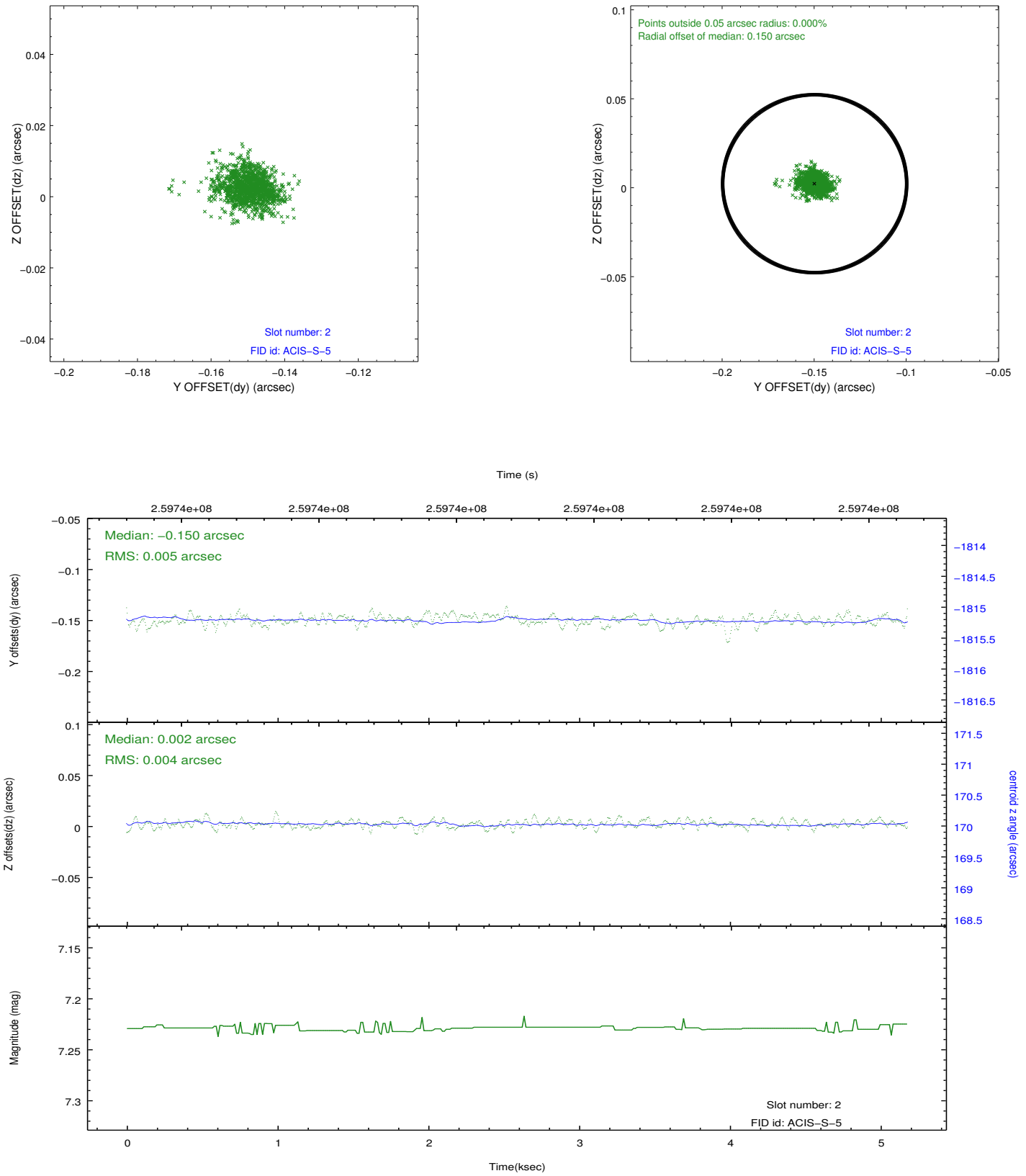
2.5.1 Slot 0



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) | 2012.03.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.75199998 |

A.2 Comments