

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7454 - L2 Version 3
Chandra X-Ray Center

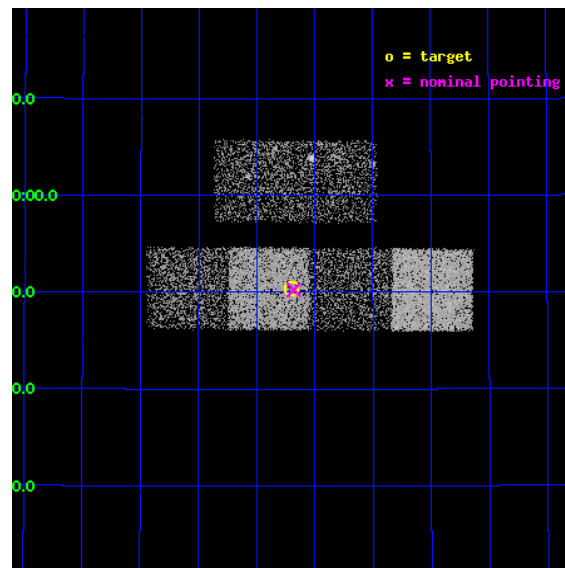
L2 Processing Date : Apr 22 2012

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1 Front

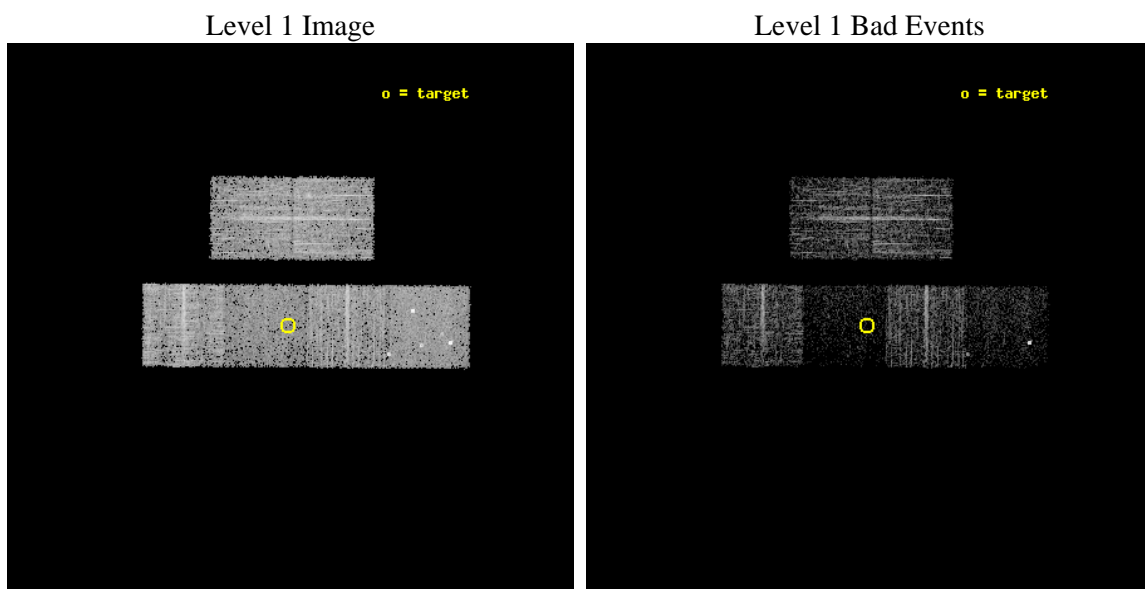
| | | |
|----------|--|---|
| seq_num | 300188 | Sequence number |
| obs_id | 7454 | Observation id |
| title | X-ray Measures of Two New Double-Degenerate, Ultracompact AM CVn Binaries | Proposal title |
| observer | Dr. Scott Anderson | Principal investigator |
| object | SDSS J1208+3550 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 182.175 | Observer's specified target RA [deg] |
| dec_targ | 35.840306 | Observer's specified target Dec [deg] |
| ra_nom | 182.1700490964 | Nominal RA [deg] |
| dec_nom | 35.837547971091 | Nominal Dec [deg] |
| roll_nom | 180.39460251168 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 3030.231811583 | Sum of GTIs [s] |
| livetime | 2991.8611917982 | Livetime [s] |
| ontime2 | 3030.2728515863 | Sum of GTIs [s] |
| ontime3 | 3030.1086915731 | Sum of GTIs [s] |
| ontime5 | 3030.1907715797 | Sum of GTIs [s] |
| ontime6 | 3030.1497315764 | Sum of GTIs [s] |
| ontime7 | 3030.231811583 | Sum of GTIs [s] |
| ontime8 | 3030.0676515698 | Sum of GTIs [s] |
| l2events | 27601 | Number of level 2 events |



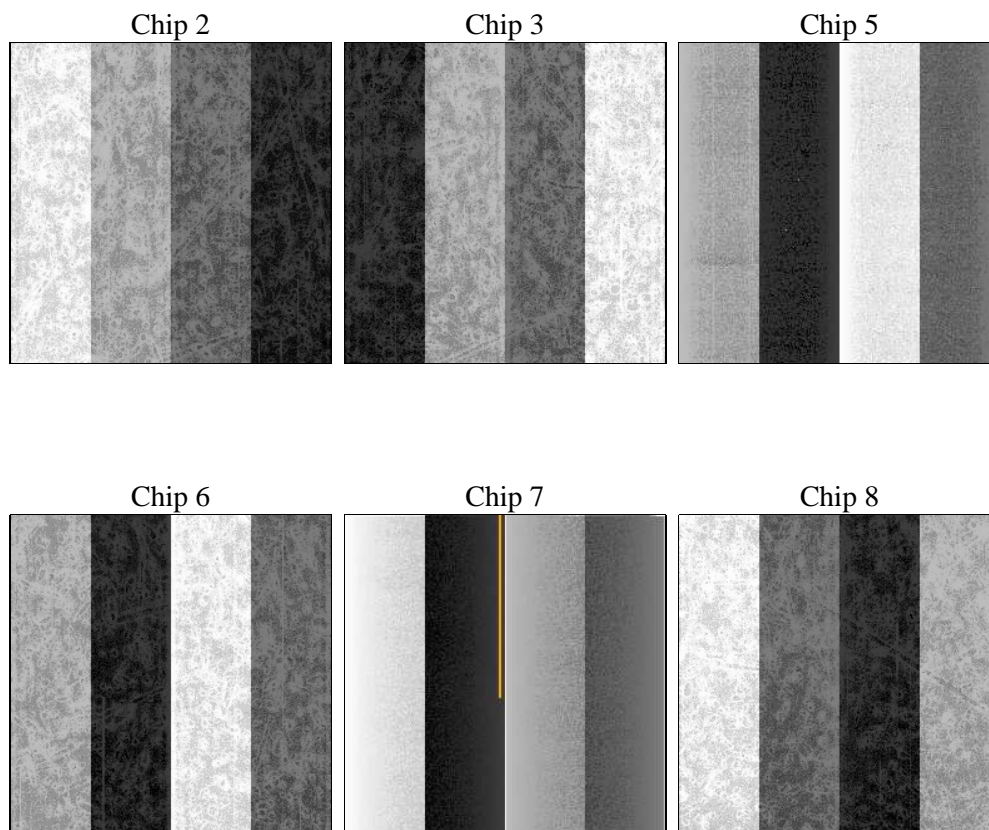
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2985.422000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 3030.231811583 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 3030.2728515863 | Sum of GTIs [s] |
| date | 2012-04-22T04:14:41 | Date and time of file creation | ontime3 | 3030.1086915731 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime5 | 3030.1907715797 | Sum of GTIs [s] |
| | | | ontime6 | 3030.1497315764 | Sum of GTIs [s] |
| | | | ontime7 | 3030.231811583 | Sum of GTIs [s] |
| | | | ontime8 | 3030.0676515698 | Sum of GTIs [s] |
| | | | l1events | 122769 | Number of level 1 events |

2.1.4 Events

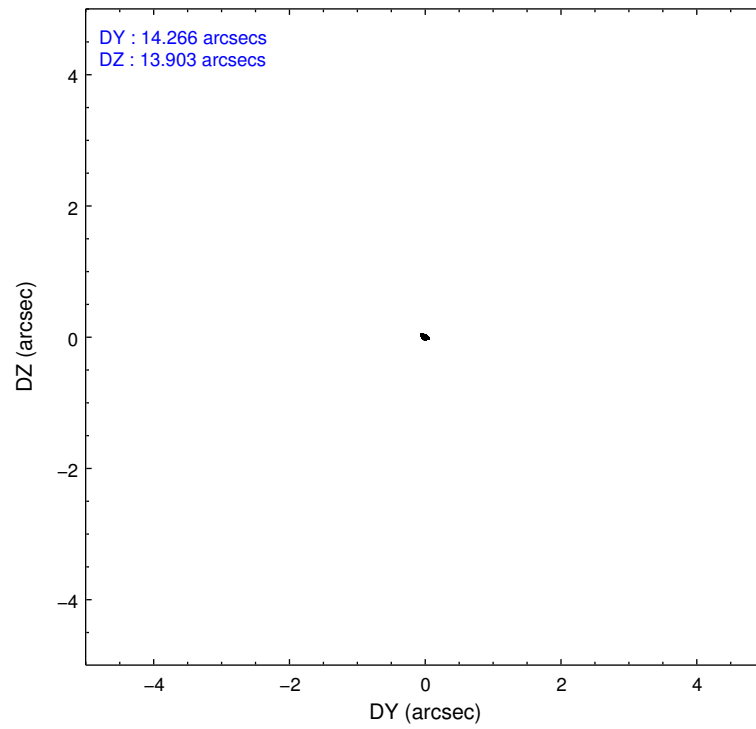
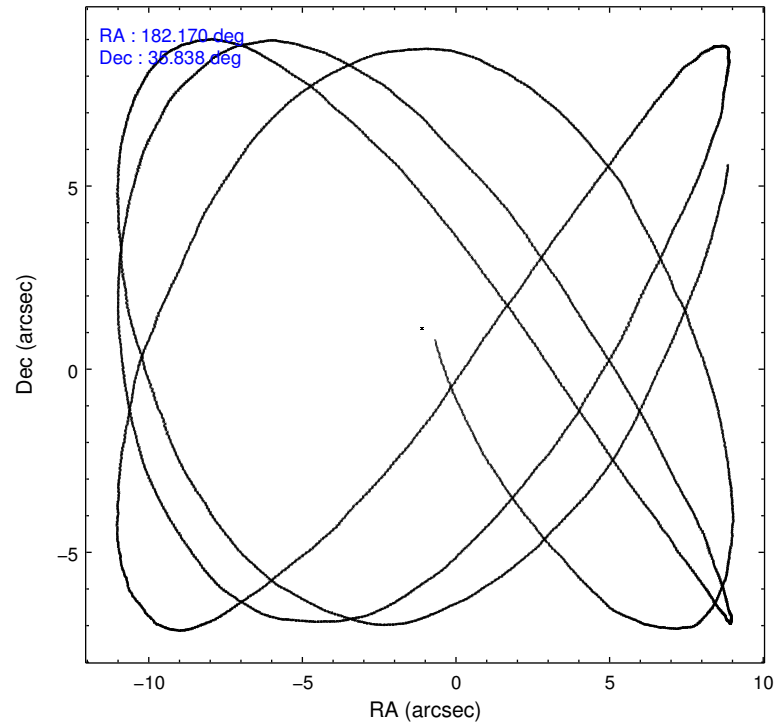
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 23620 | 20314 | 20788 | 20007 | 13307 | 24733 |
| rejected events | 21023 | 18112 | 7665 | 17682 | 4824 | 18017 |
| rejected % | 89% | 89% | 36% | 88% | 36% | 72% |

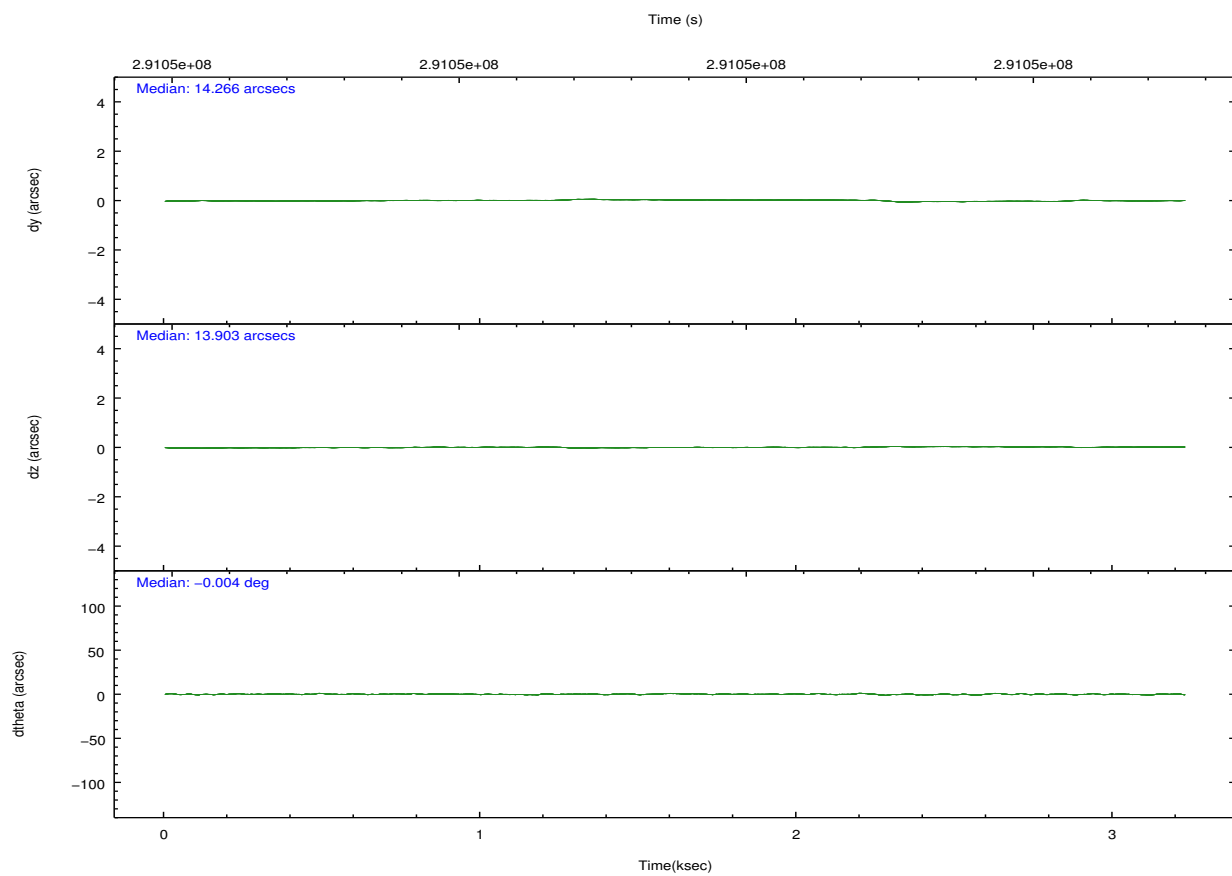
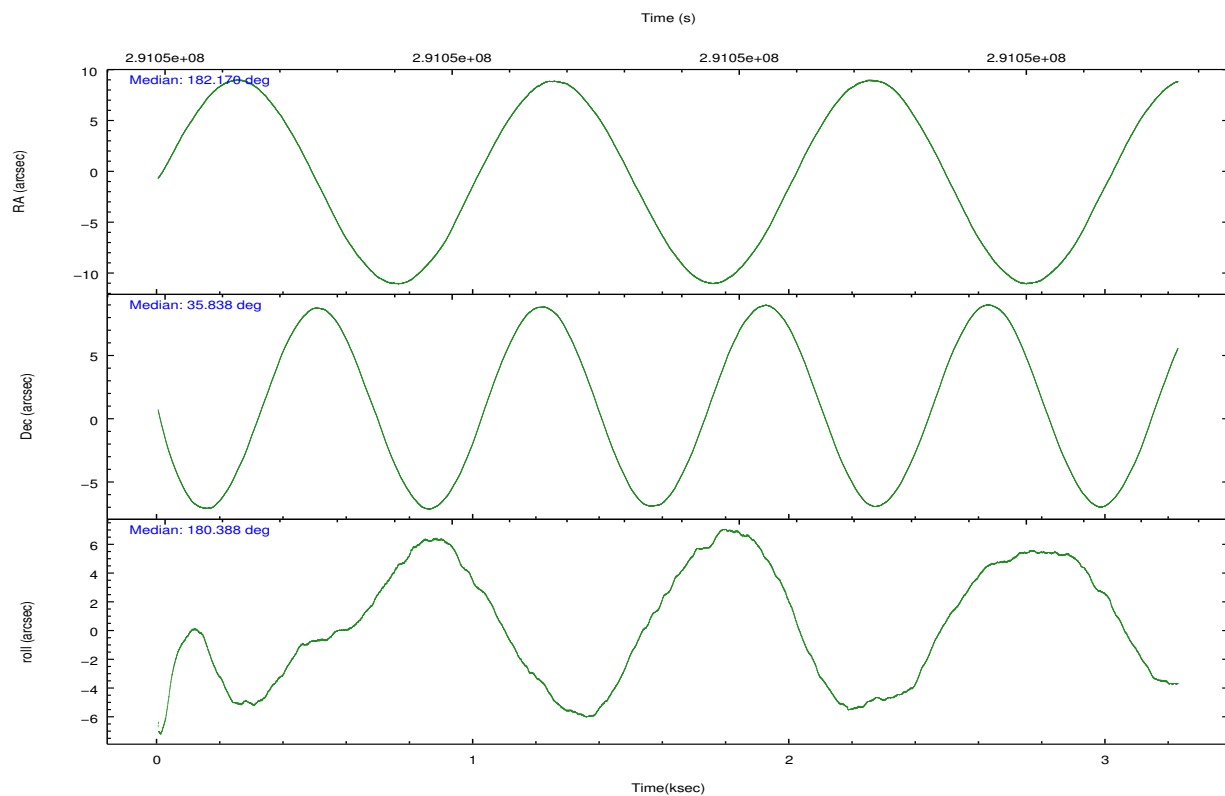
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 1380 | 1114 | 2682 | 1120 | 1148 | 2243 |
| | 5% | 5% | 12% | 5% | 8% | 9% |
| grade 1 events | 13 | 15 | 143 | 10 | 44 | 27 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 470 | 396 | 3953 | 437 | 1872 | 1466 |
| | 1% | 1% | 19% | 2% | 14% | 5% |
| grade 3 events | 215 | 195 | 712 | 234 | 822 | 738 |
| | 0% | 0% | 3% | 1% | 6% | 2% |
| grade 4 events | 227 | 216 | 633 | 232 | 814 | 657 |
| | 0% | 1% | 3% | 1% | 6% | 2% |
| grade 5 events | 307 | 392 | 1839 | 368 | 1198 | 680 |
| | 1% | 1% | 8% | 1% | 9% | 2% |
| grade 6 events | 308 | 282 | 5156 | 306 | 3844 | 1619 |
| | 1% | 1% | 24% | 1% | 28% | 6% |
| grade 7 events | 20700 | 17704 | 5670 | 17300 | 3565 | 17303 |
| | 87% | 87% | 27% | 86% | 26% | 69% |

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 | 182.198794 | 182.1700490964002 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 35.851885 | 35.83754797109086 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 180.221131 | 180.3946025116774 | [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 | -190.145094680475 | | | |
| [mm] SIM translation stage offset | 0 | 0.01257209746719923 | | | |
| [s] Observation start time (MET) | 291051382.184000 | 291050346.45248 | | | |
| Observation start date | 2007-03-23T15:35:17 | 2007-03-23T15:19:06 | | | |
| [s] Observation end time (MET) | 291054367.184000 | 291054590.97768 | | | |
| Observation end date | 2007-03-23T16:25:02 | 2007-03-23T16:29:50 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



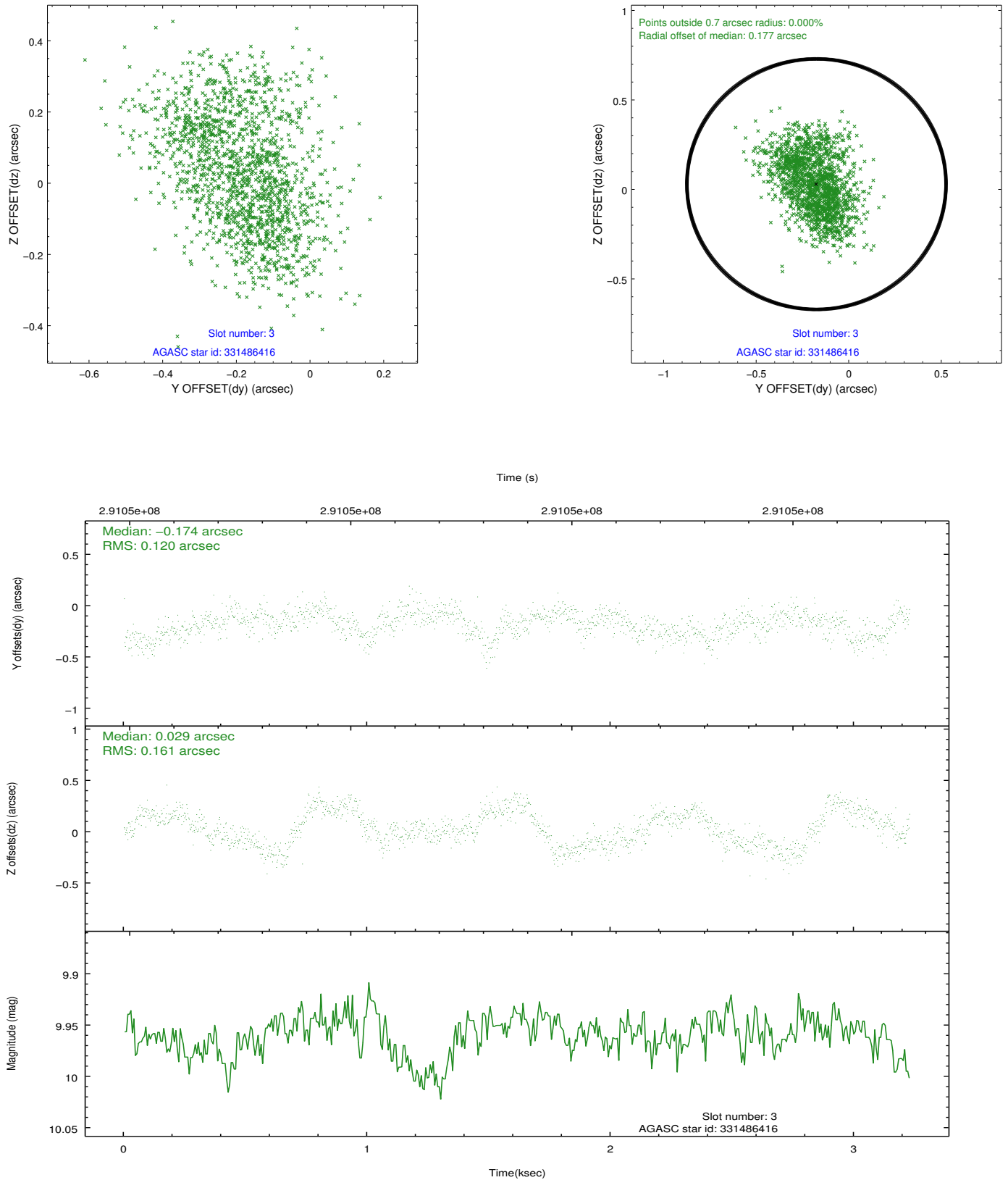


Slot Statistics

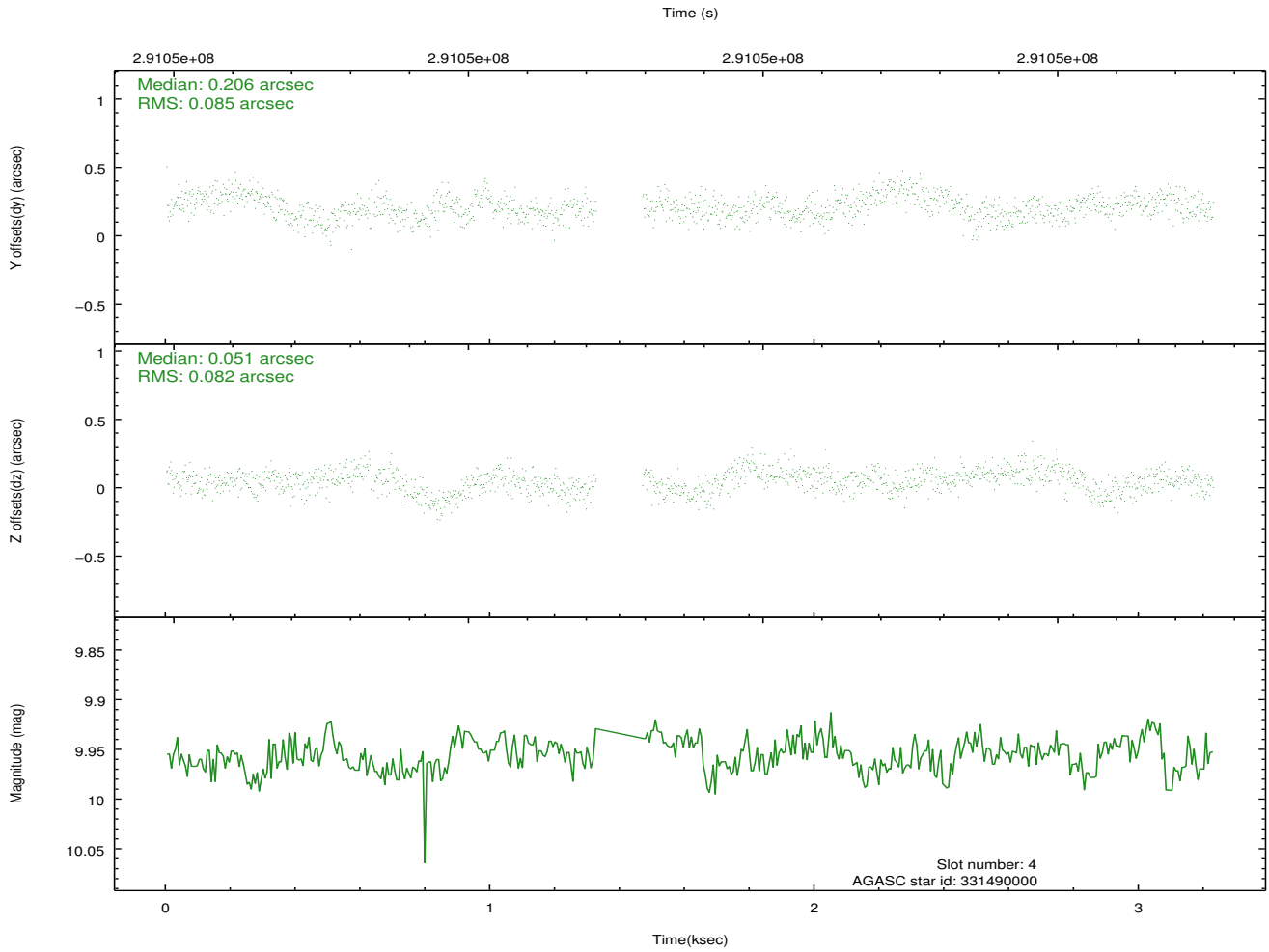
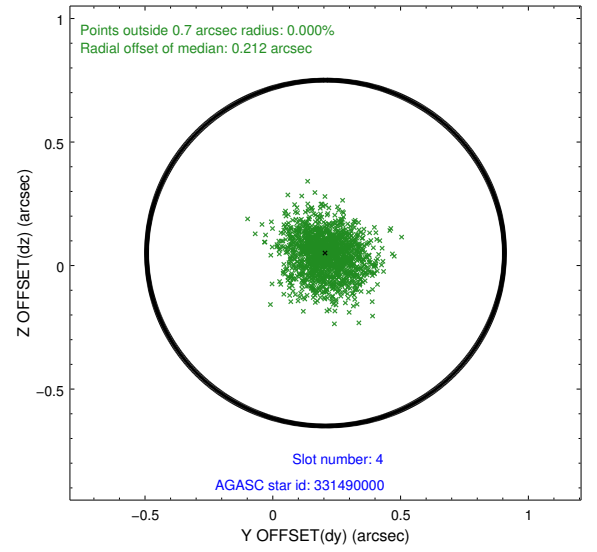
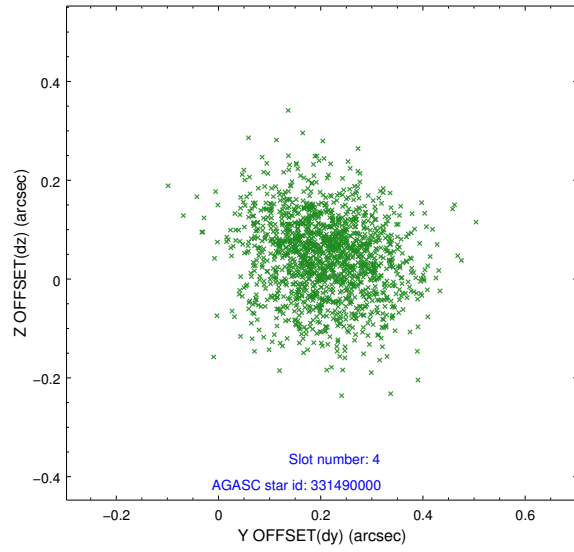
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 787 | -0.066 | -0.066 | 0.006 | 0.010 | 0.000000 | 0.000000 | -767.29 | -1735.21 |
| 1 | FID | ACIS-S-4 | 7.20 | 787 | 0.205 | 0.050 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2145.37 | 171.33 |
| 2 | FID | ACIS-S-5 | 7.23 | 787 | -0.170 | 0.025 | 0.007 | 0.010 | 0.000000 | 0.000000 | -1817.70 | 167.24 |
| 3 | GUIDE | 331486416 | 9.96 | 1575 | -0.174 | 0.029 | 0.216 | 0.332 | 181.424513 | 36.258506 | 2242.83 | -1481.25 |
| 4 | GUIDE | 331490000 | 9.95 | 1498 | 0.206 | 0.051 | 0.127 | 0.203 | 181.731418 | 36.063552 | 1359.51 | -771.67 |
| 5 | GUIDE | 331498328 | 9.25 | 1574 | 0.205 | 0.068 | 0.129 | 0.207 | 182.750735 | 35.380559 | -1611.92 | 1697.54 |
| 6 | GUIDE | 331498488 | 9.78 | 1571 | -0.062 | -0.015 | 0.118 | 0.187 | 181.654333 | 35.339665 | 1605.80 | 1834.57 |
| 7 | GUIDE | 331498608 | 9.61 | 1570 | -0.162 | -0.115 | 0.120 | 0.189 | 182.844903 | 35.625483 | -1886.03 | 816.61 |

2.4 Star Slots

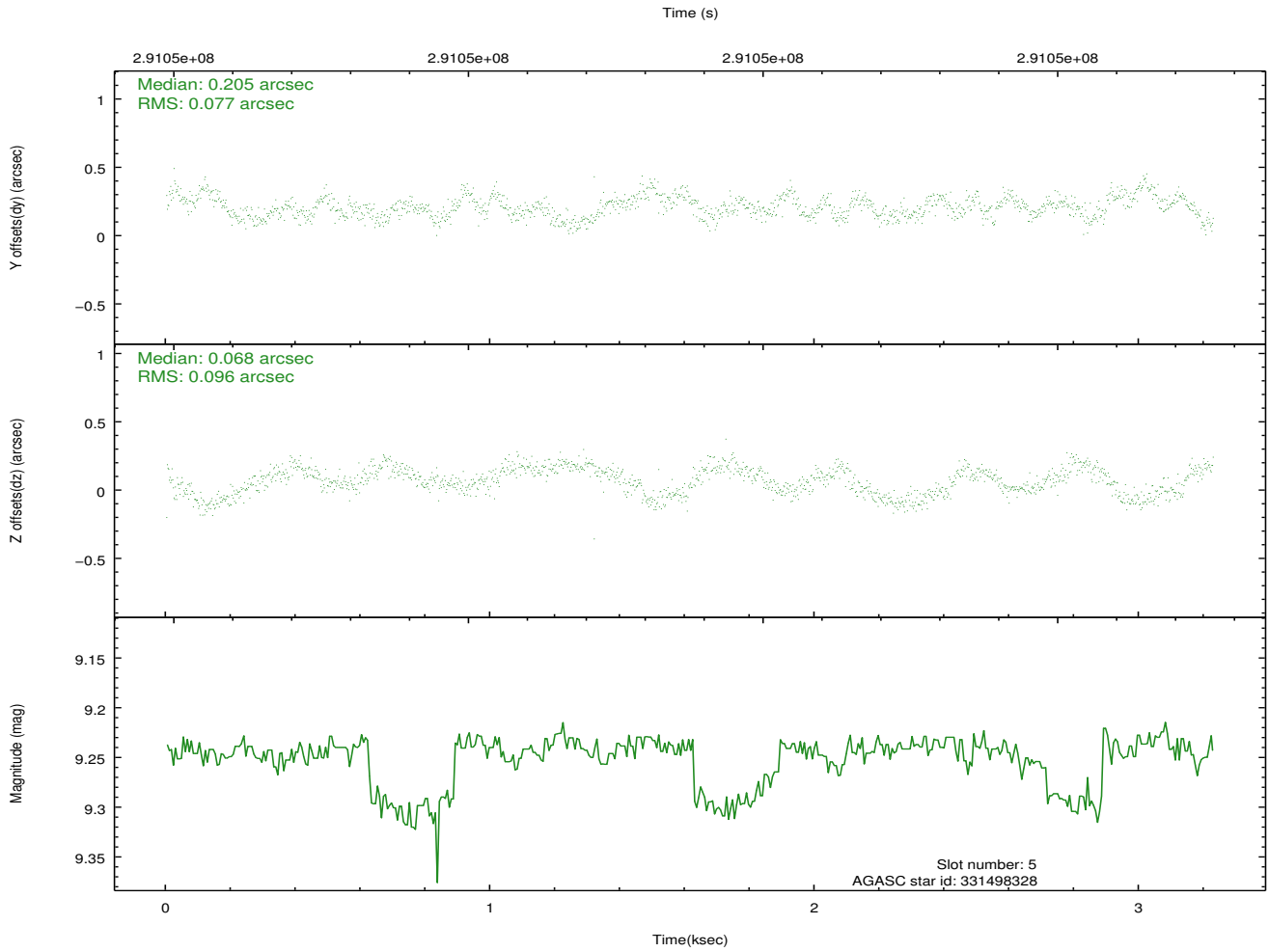
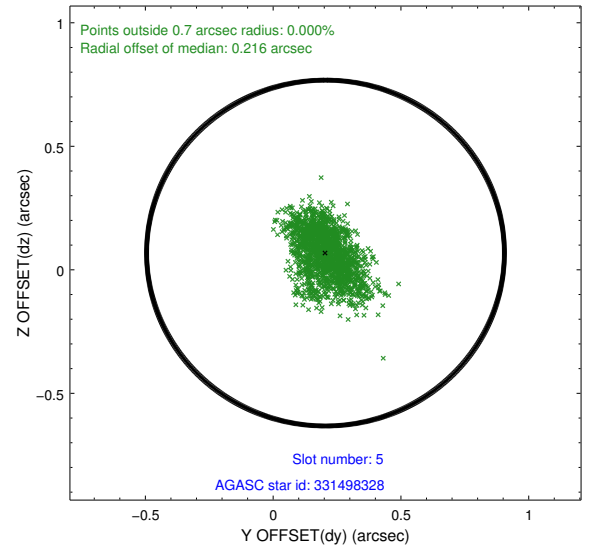
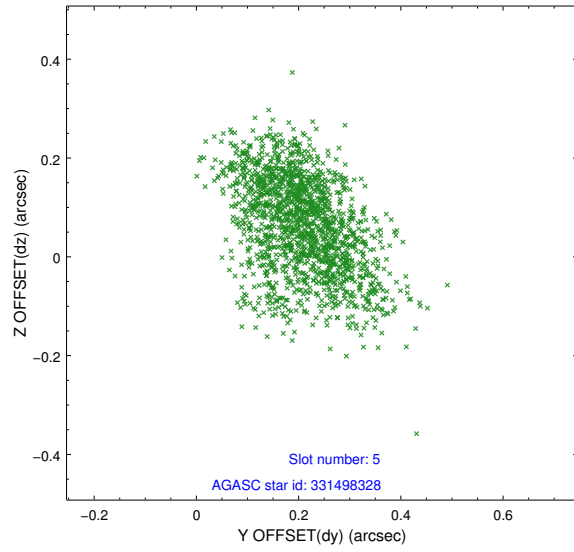
2.4.1 Slot 3



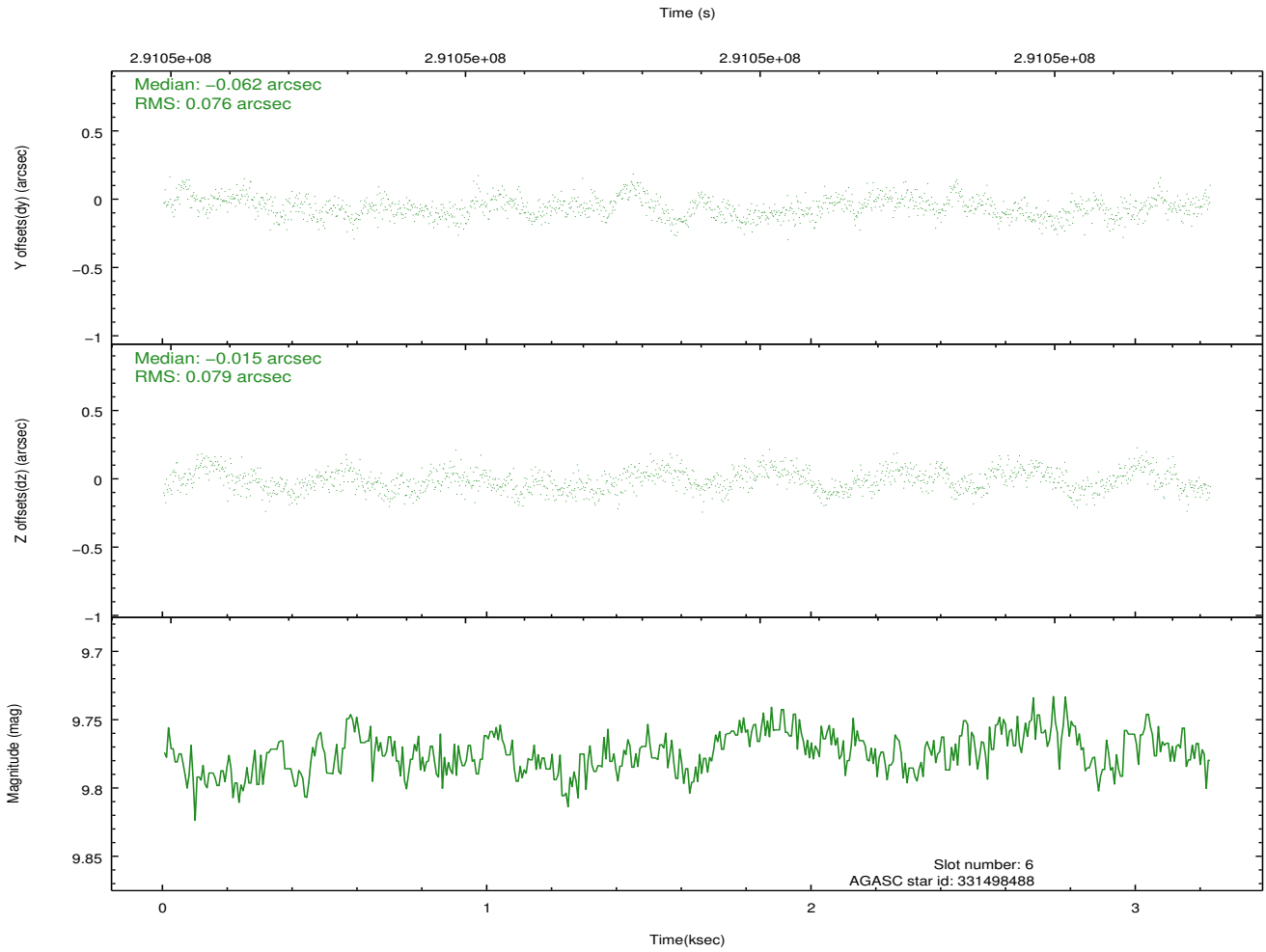
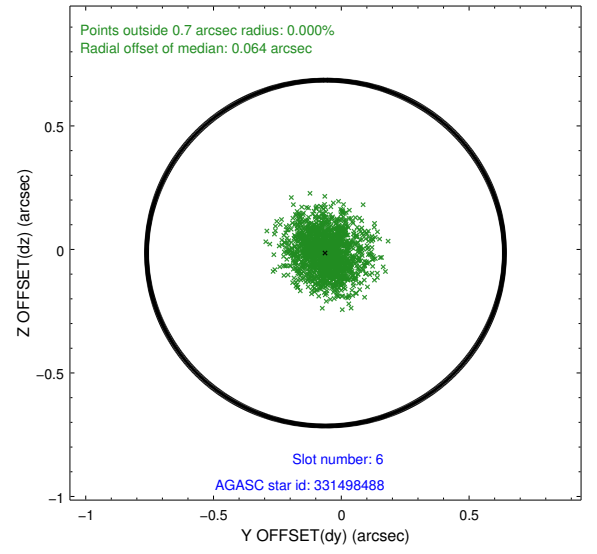
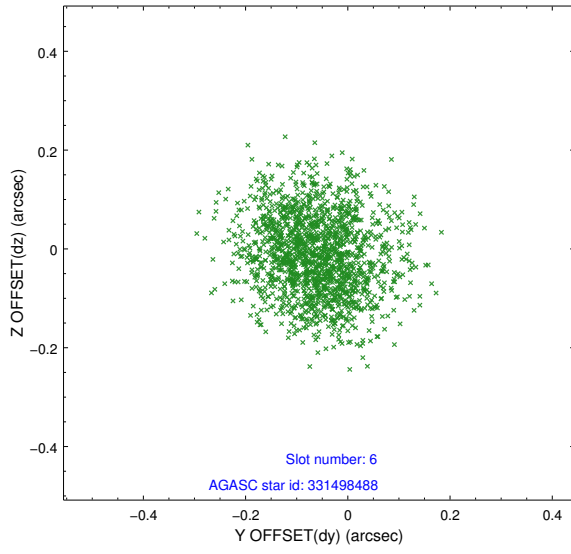
2.4.2 Slot 4



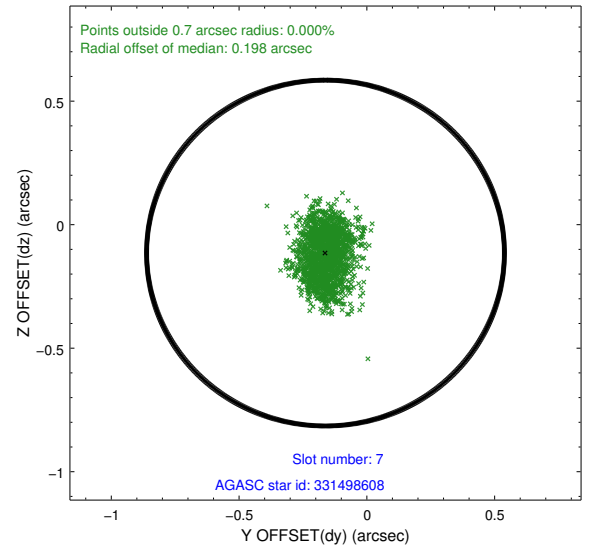
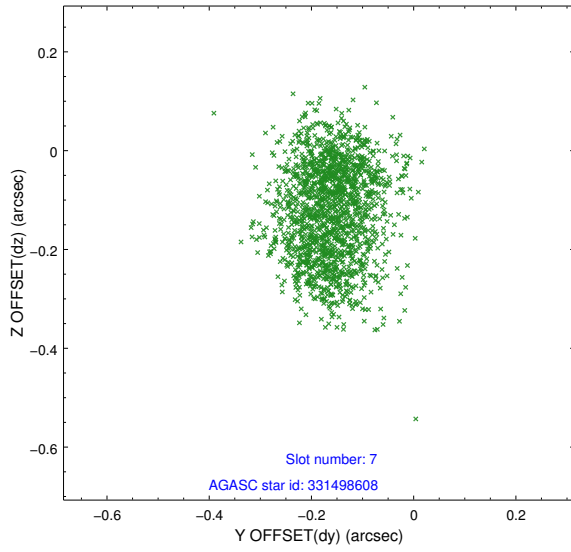
2.4.3 Slot 5



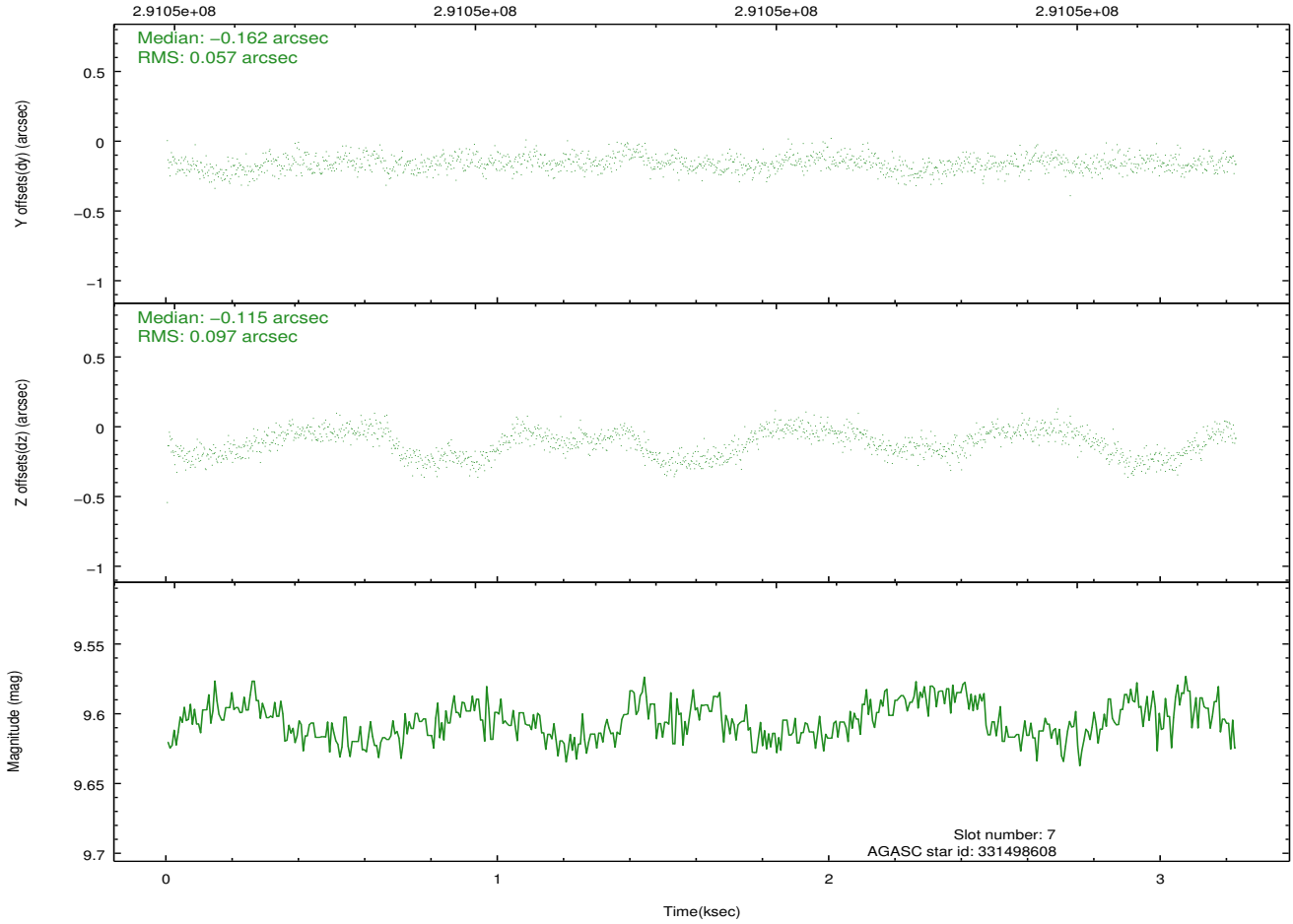
2.4.4 Slot 6



2.4.5 Slot 7

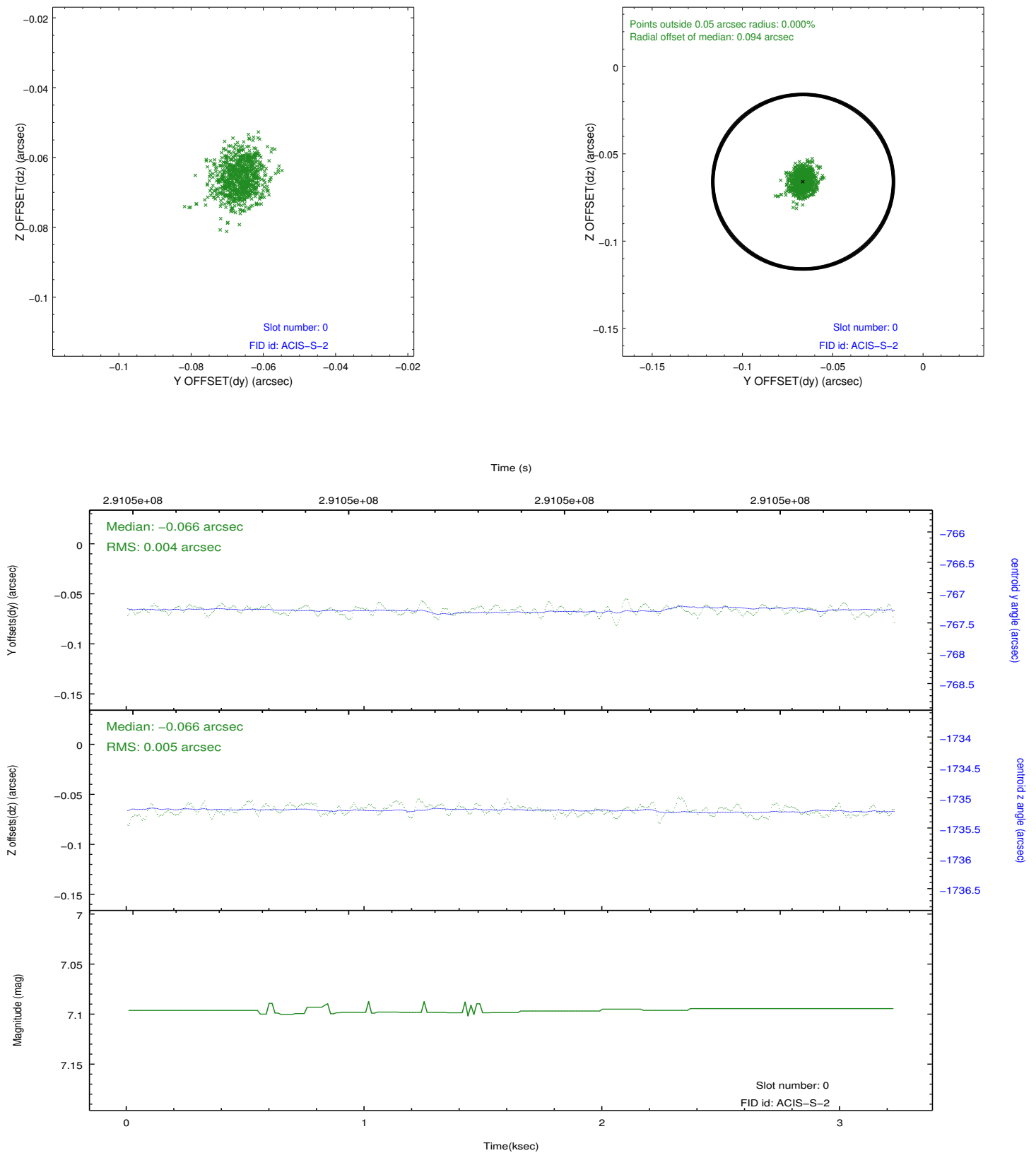


Time (s)

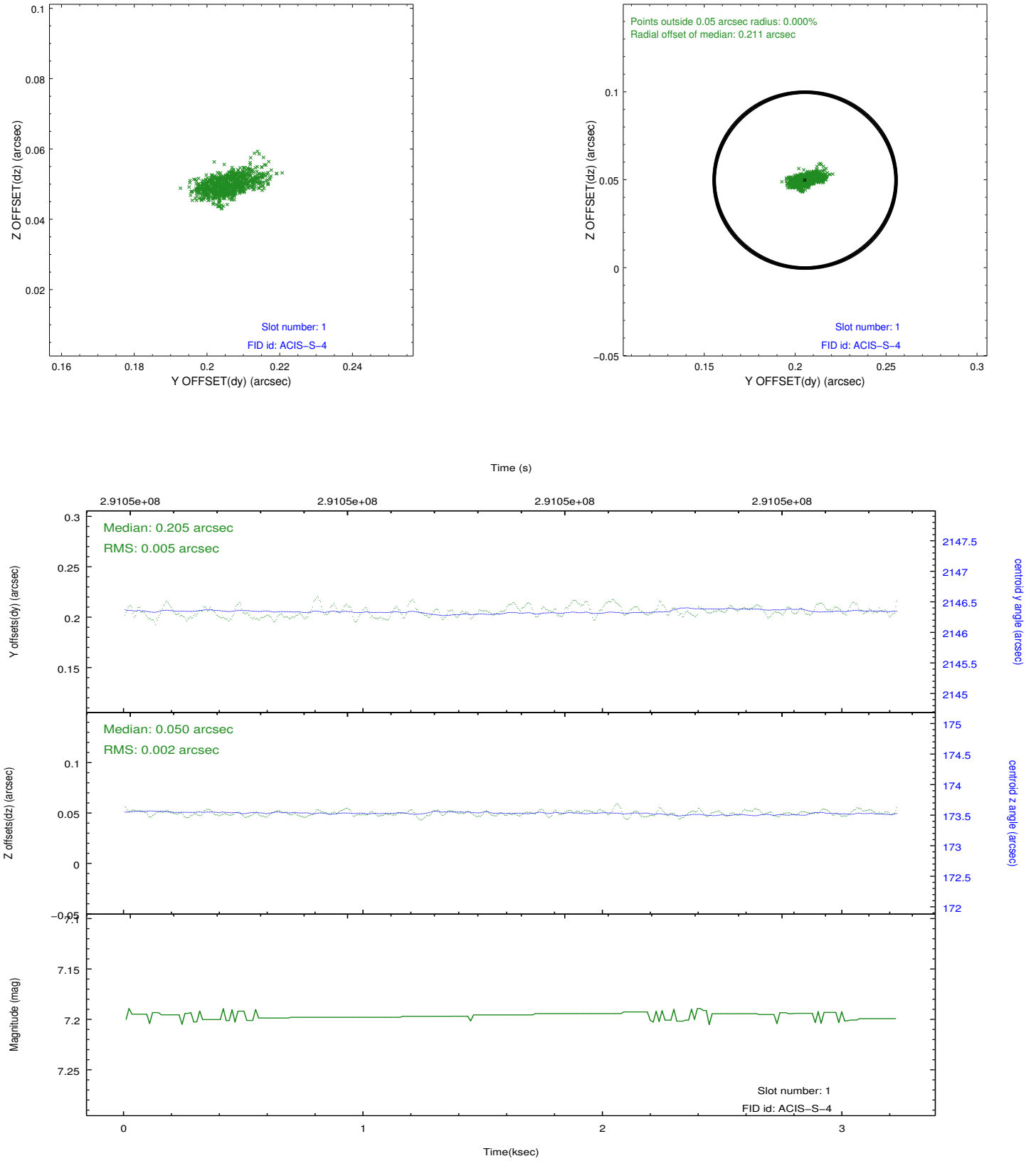


2.5 FID Slots

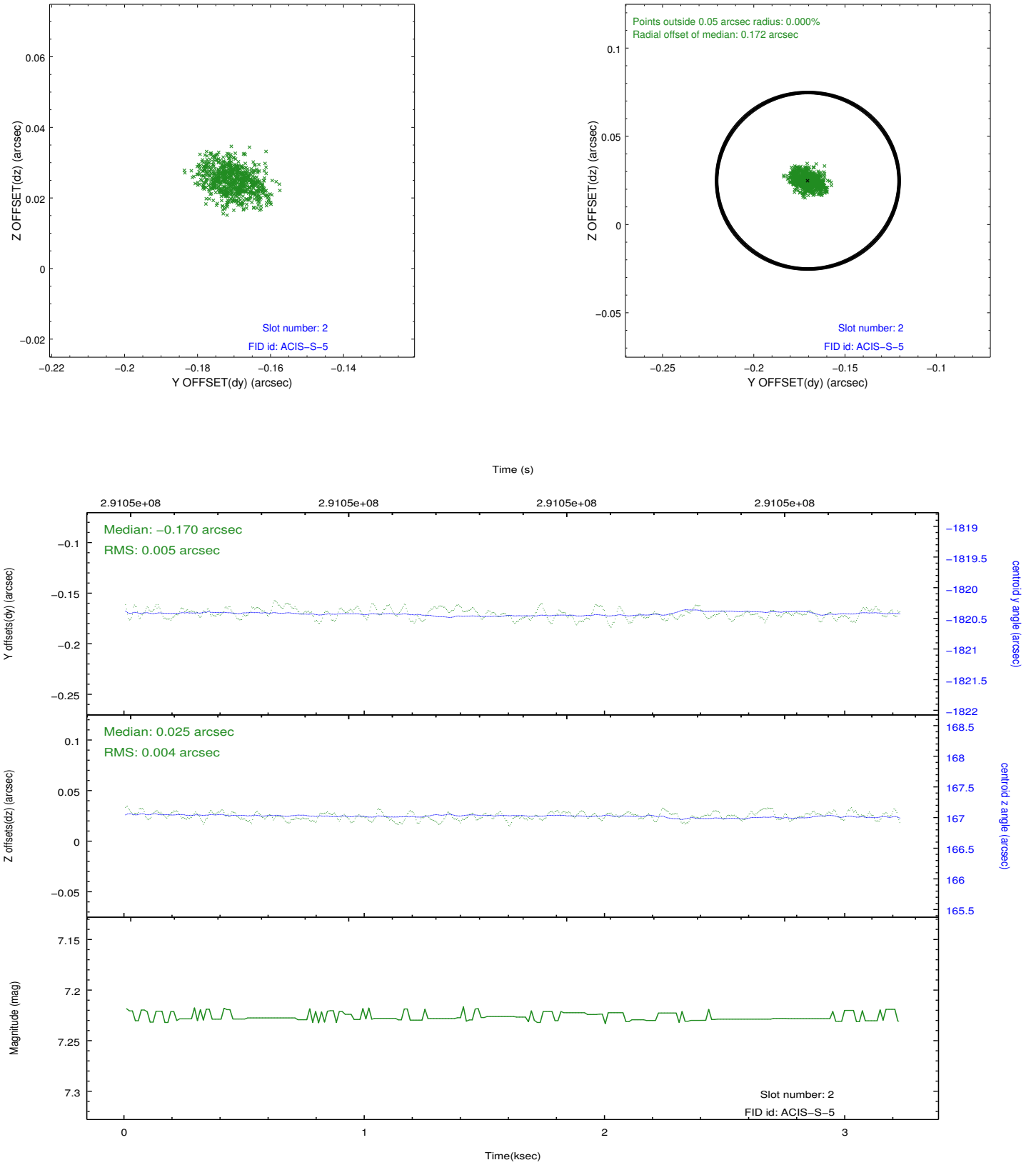
2.5.1 Slot 0



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) | 2012.04.23 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.03039998 |

A.2 Comments