

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17124 - L2 Version 1
Chandra X-Ray Center

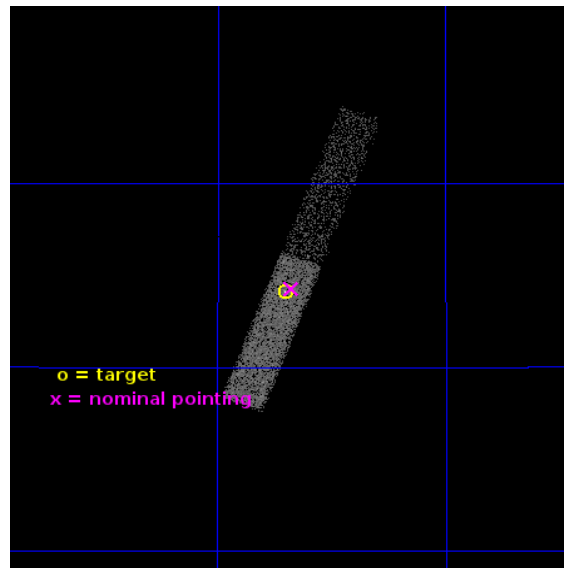
L2 Processing Date : Sep 27 2015

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1 Front

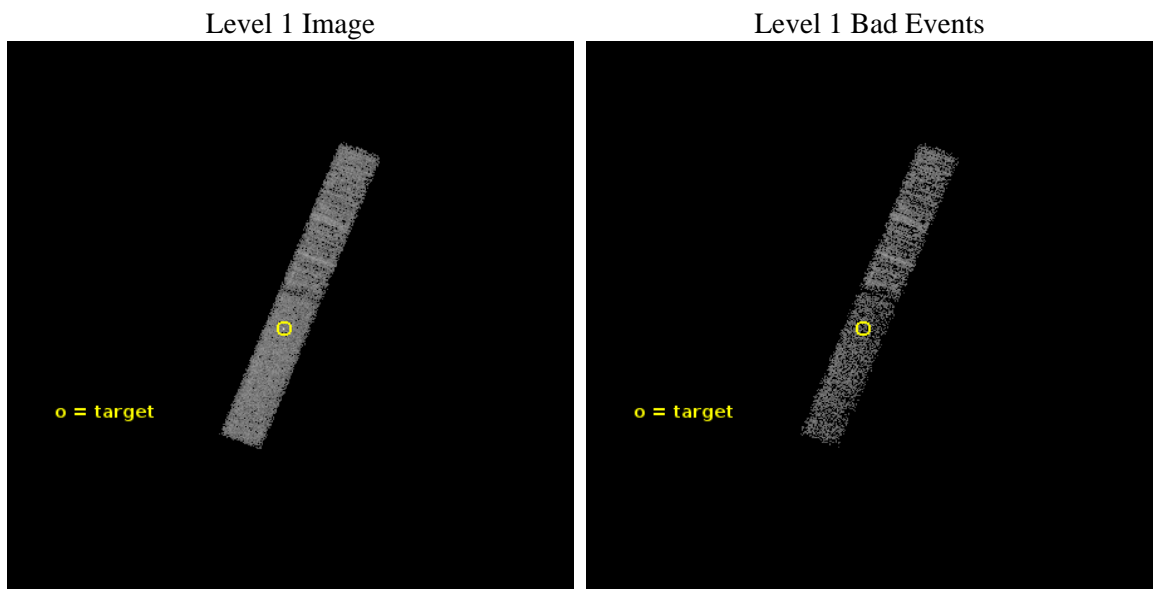
| | | |
|----------|---|---|
| seq_num | 703123 | Sequence number |
| obs_id | 17124 | Observation id |
| title | UNCOVERING AGN FUELING AND FEEDBACK IN DWARF GALAXIES | Proposal tit |
| observer | Professor Richard Mushotzky | Principal investigator |
| object | 2MASX J03534246+3714077 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 58.425 | Observer's specified target RA [deg] |
| dec_targ | 37.235278 | Observer's specified target Dec [deg] |
| ra_nom | 58.419004378417 | Nominal RA [deg] |
| dec_nom | 37.237927629357 | Nominal Dec [deg] |
| roll_nom | 111.50057774762 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 10098.715076089 | Sum of GTIs [s] |
| livetime | 9658.296744538 | Livetime [s] |
| ontime6 | 10098.674036145 | Sum of GTIs [s] |
| ontime7 | 10098.715076089 | Sum of GTIs [s] |
| l2events | 10674 | Number of level 2 events |



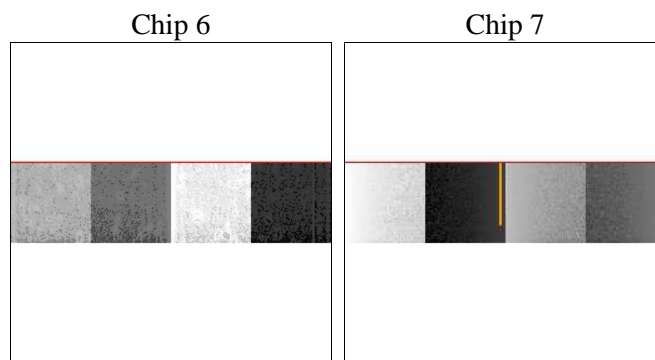
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 2 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.4.1 | Processing system revision | ontime | 10098.715076089 | Sum of GTIs [s] |
| caldsver | 4.6.8 | | ontime6 | 10098.674036145 | Sum of GTIs [s] |
| date | 2015-09-27T03:43:55 | Date and time of file creation | ontime7 | 10098.715076089 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | l1events | 35727 | Number of level 1 events |

2.1.4 Events

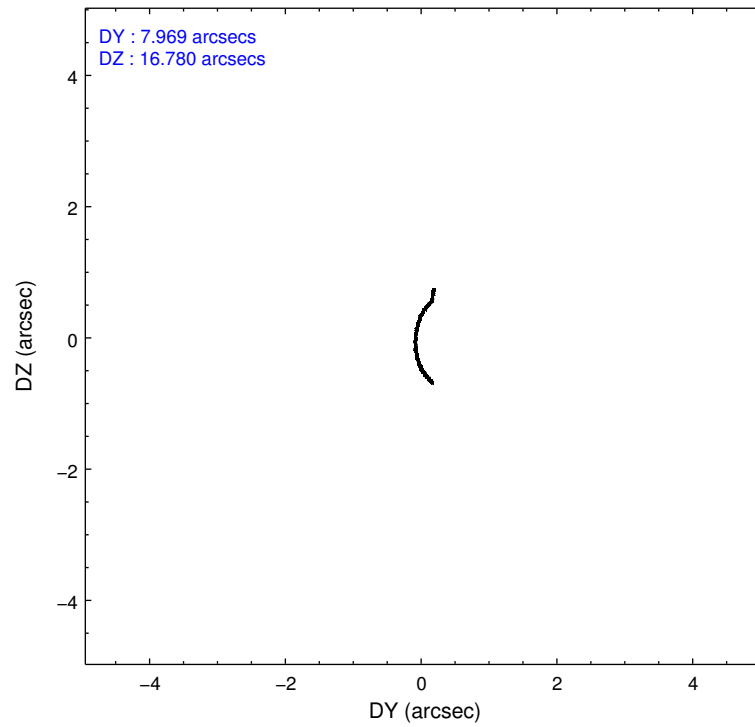
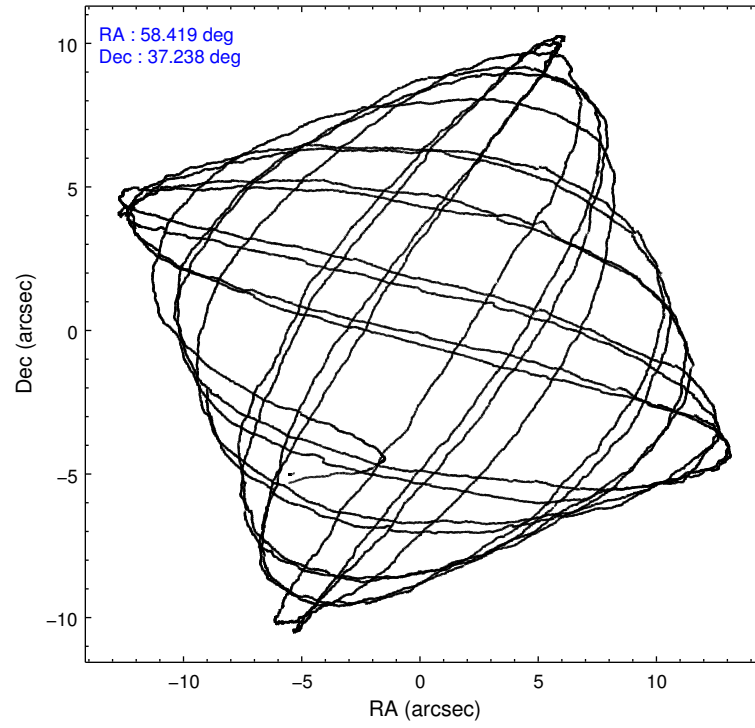
| | ccd 6 | ccd 7 |
|-----------------|-------|-------|
| level 1 events | 16576 | 19151 |
| rejected events | 14668 | 9773 |
| rejected % | 88% | 51% |

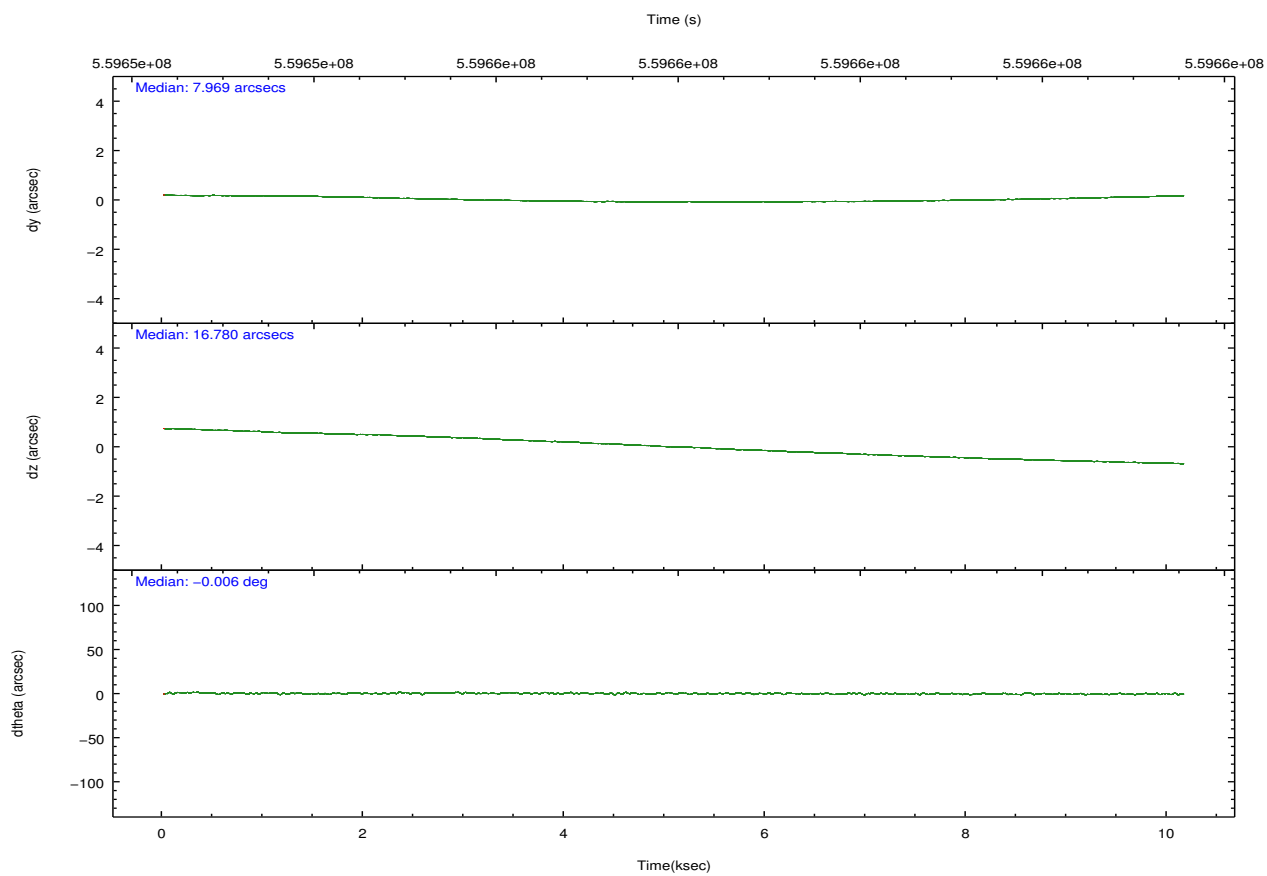
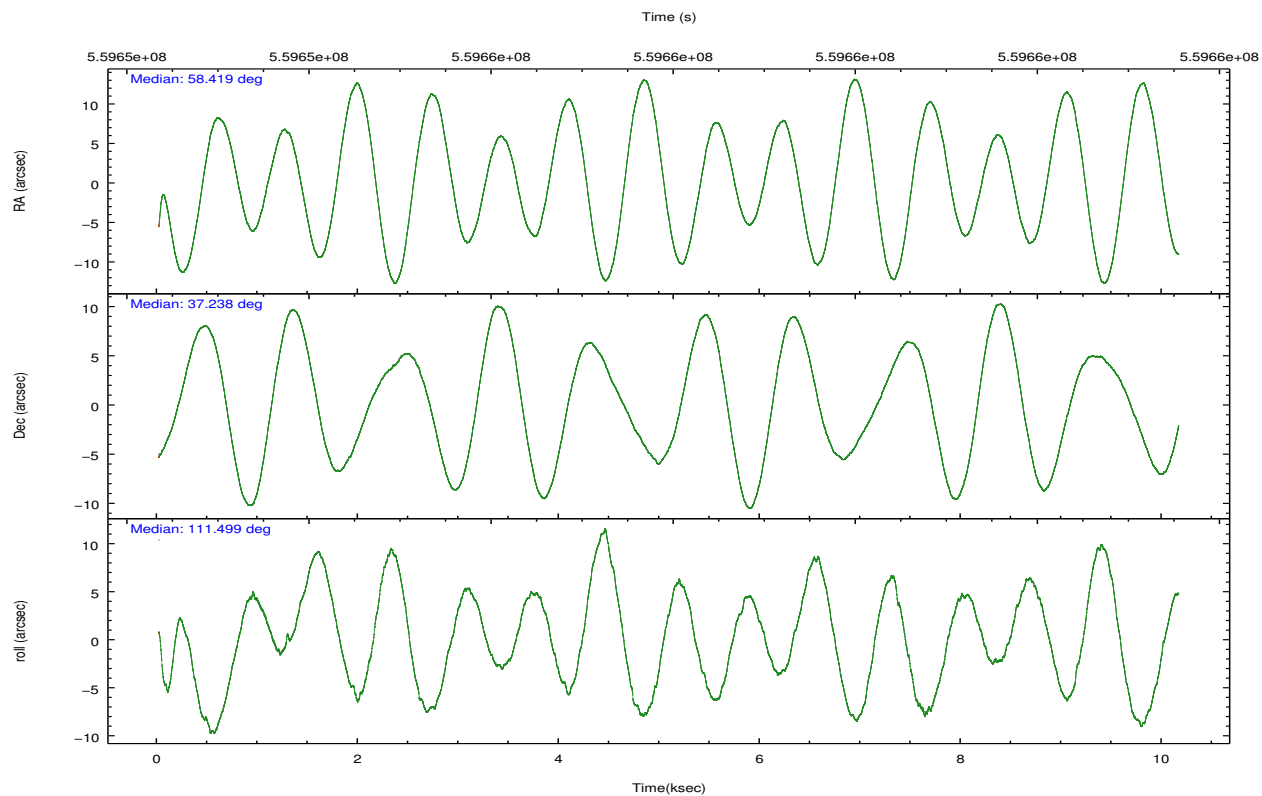
| | ccd 6 | ccd 7 |
|----------------|-------|-------|
| grade 0 events | 579 | 970 |
| | 3% | 5% |
| grade 1 events | 4 | 28 |
| | 0% | 0% |
| grade 2 events | 369 | 1962 |
| | 2% | 10% |
| grade 3 events | 292 | 1035 |
| | 1% | 5% |
| grade 4 events | 279 | 984 |
| | 1% | 5% |
| grade 5 events | 697 | 1950 |
| | 4% | 10% |
| grade 6 events | 390 | 4428 |
| | 2% | 23% |
| grade 7 events | 13966 | 7794 |
| | 84% | 40% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-67 | ACIS-67 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 58.446310 | 58.41900437841672 | Subarray requested | CUSTOM | 1/4 |
| [deg] Pointing Dec | 37.221147 | 37.23792762935661 | Subarray start row | 385 | 385 |
| [deg] Pointing Roll | 111.327415 | 111.5005777476181 | Subarray row count | 256 | 256 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | [s] Primary exposure time | 0.000000 | 0.9 |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 559653039.184000 | 559651783.14248 | | | |
| Observation start date | 2015-09-26T11:09:31 | 2015-09-26T10:49:43 | | | |
| [s] Observation end time (MET) | 559663039.184000 | 559663884.80566 | | | |
| Observation end date | 2015-09-26T13:56:11 | 2015-09-26T14:11:24 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



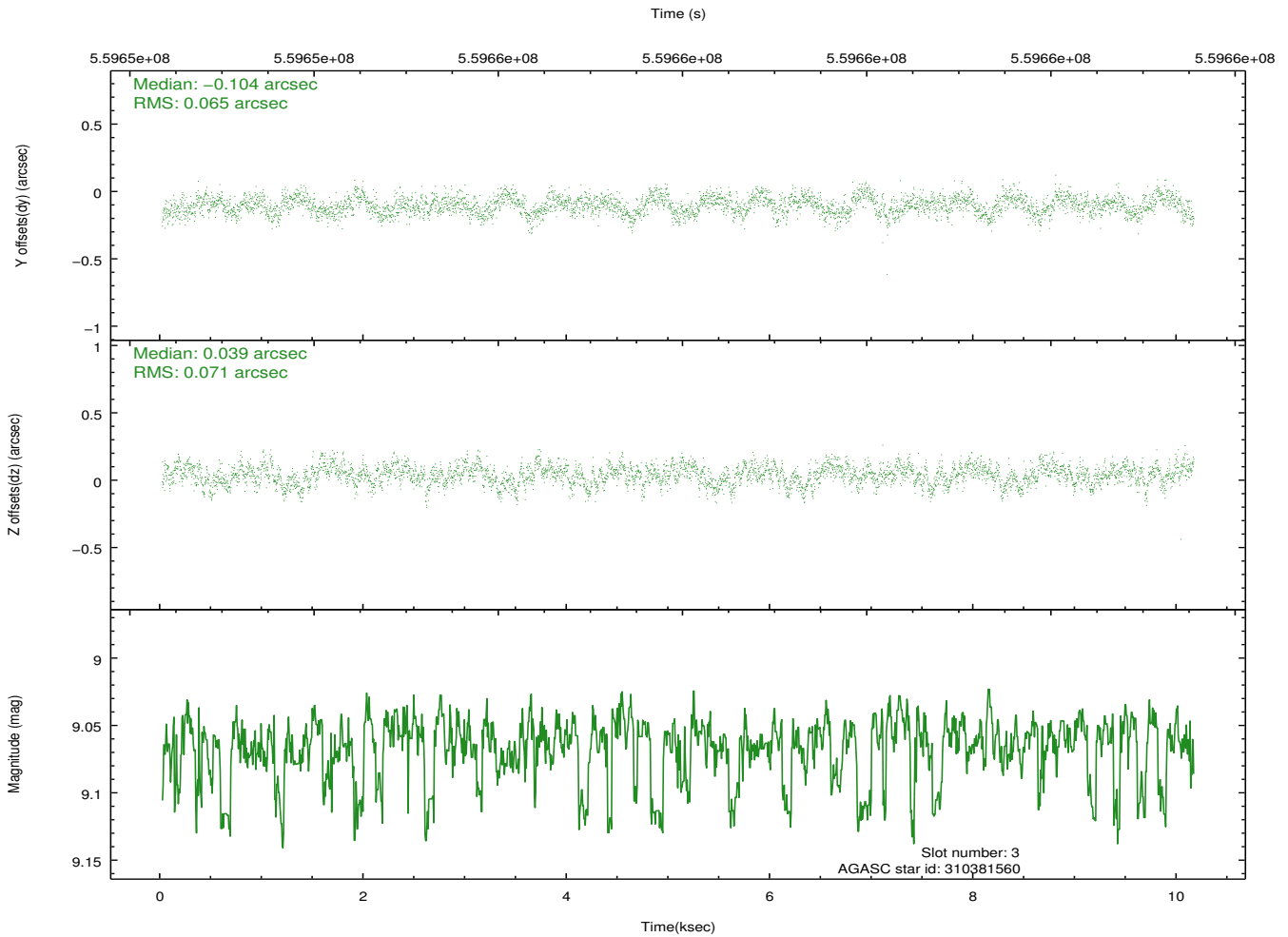
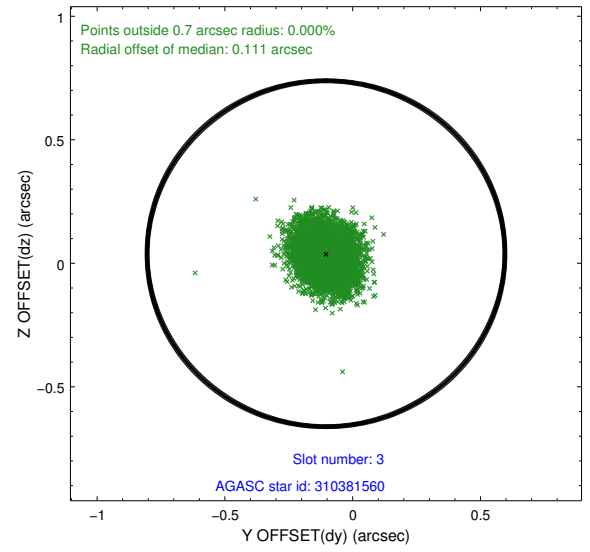
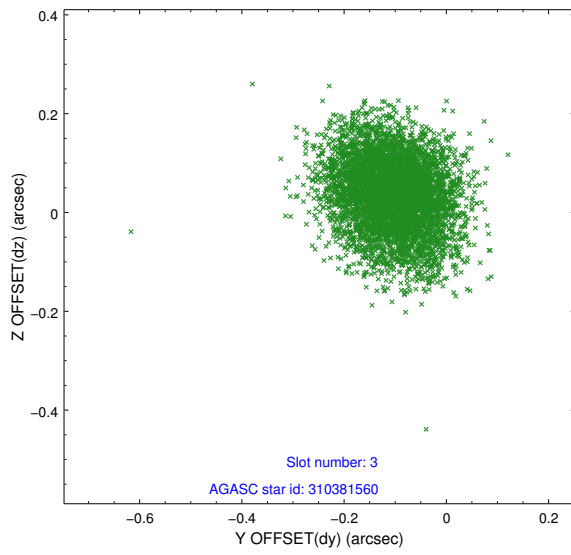


Slot Statistics

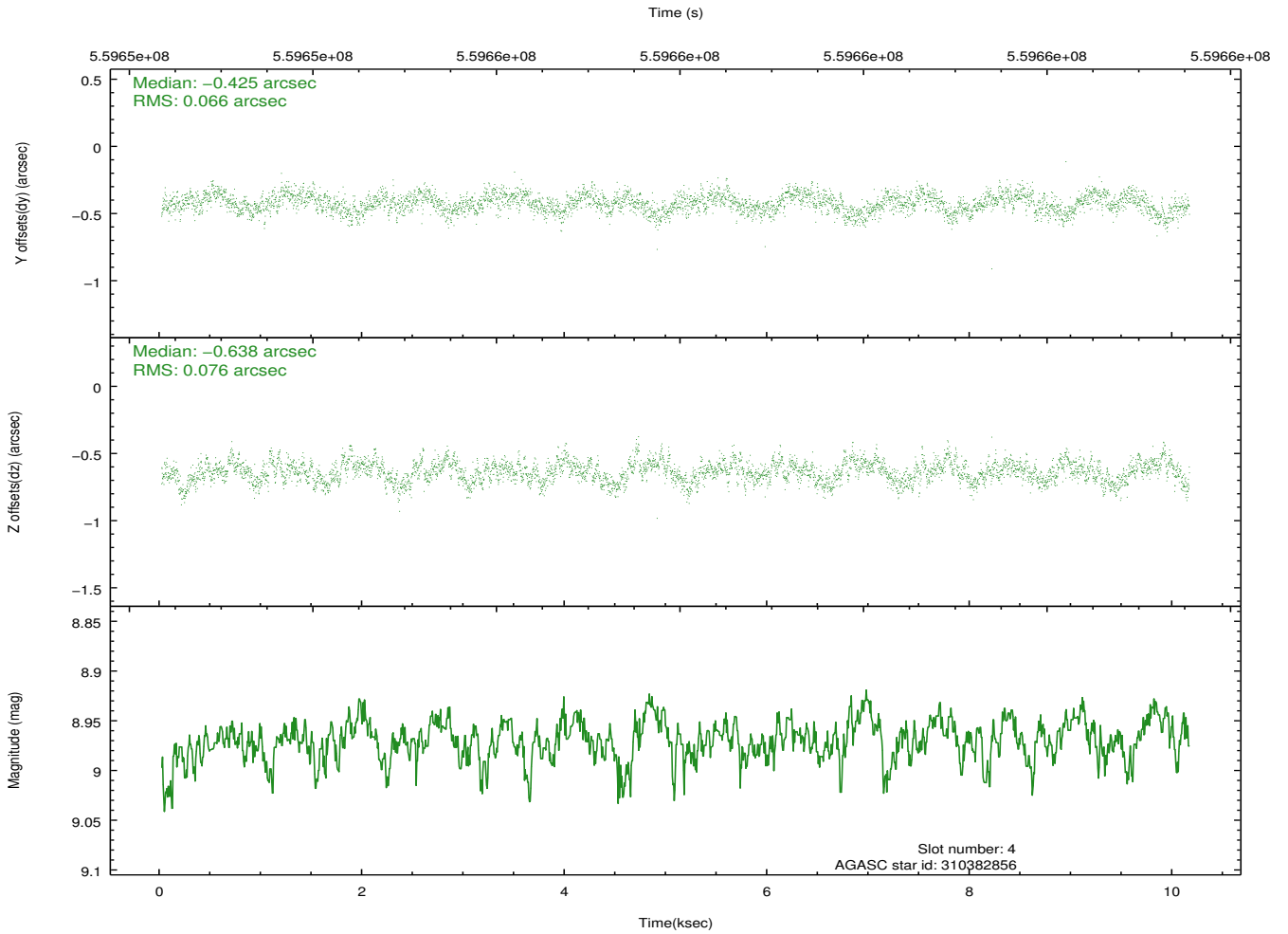
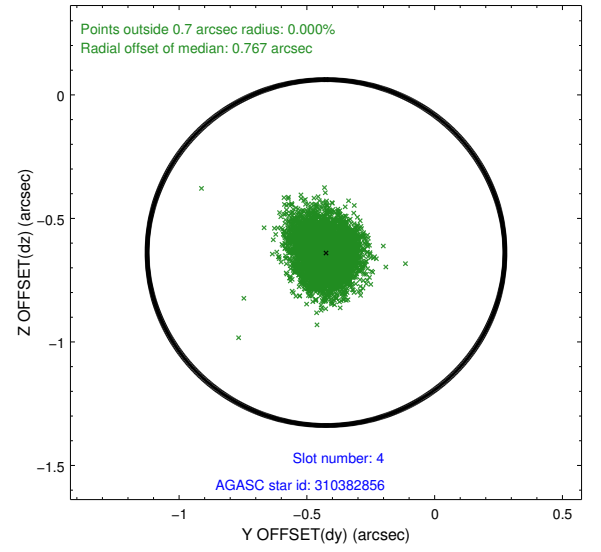
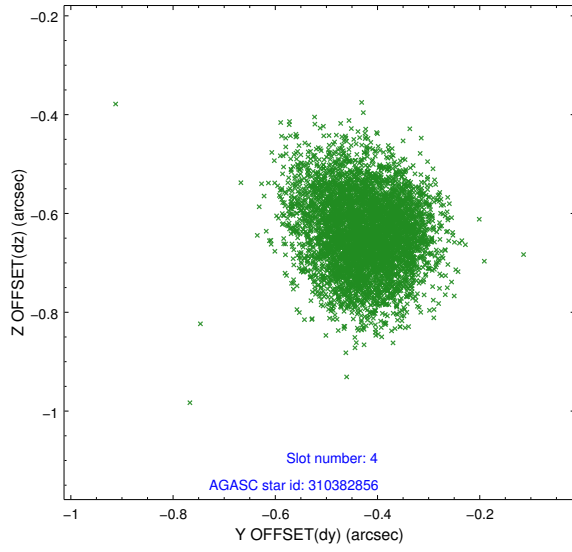
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | | ACIS-S-1 | 7.20 | 2476 | -0.034 | -0.104 | 0.024 | 0.042 | 0.000000 | 0.000000 | 935.23 | -1733.89 |
| 1 | FID | | ACIS-S-4 | 7.21 | 2476 | 0.138 | 0.025 | 0.017 | 0.023 | 0.000000 | 0.000000 | 2153.09 | 169.86 |
| 2 | FID | | ACIS-S-6 | 7.35 | 2476 | -0.128 | 0.089 | 0.011 | 0.021 | 0.000000 | 0.000000 | 401.73 | 807.86 |
| 3 | GUIDE | used | 310381560 | 9.06 | 4946 | -0.104 | 0.039 | 0.102 | 0.164 | 57.814804 | 37.356895 | 1117.89 | 1503.51 |
| 4 | GUIDE | used | 310382856 | 8.97 | 4945 | -0.425 | -0.638 | 0.108 | 0.172 | 57.857258 | 37.443944 | 1364.25 | 1274.29 |
| 5 | GUIDE | used | 310391016 | 7.70 | 4952 | -0.040 | -0.041 | 0.099 | 0.160 | 57.929943 | 36.859632 | -667.63 | 1857.33 |
| 6 | GUIDE | used | 310514888 | 8.89 | 4949 | 0.379 | 0.592 | 0.103 | 0.168 | 59.139795 | 37.157854 | -928.70 | -1772.42 |
| 7 | GUIDE | used | 310520408 | 7.98 | 4951 | 0.199 | 0.046 | 0.076 | 0.123 | 58.664374 | 36.727522 | -1883.39 | 59.40 |

2.4 Star Slots

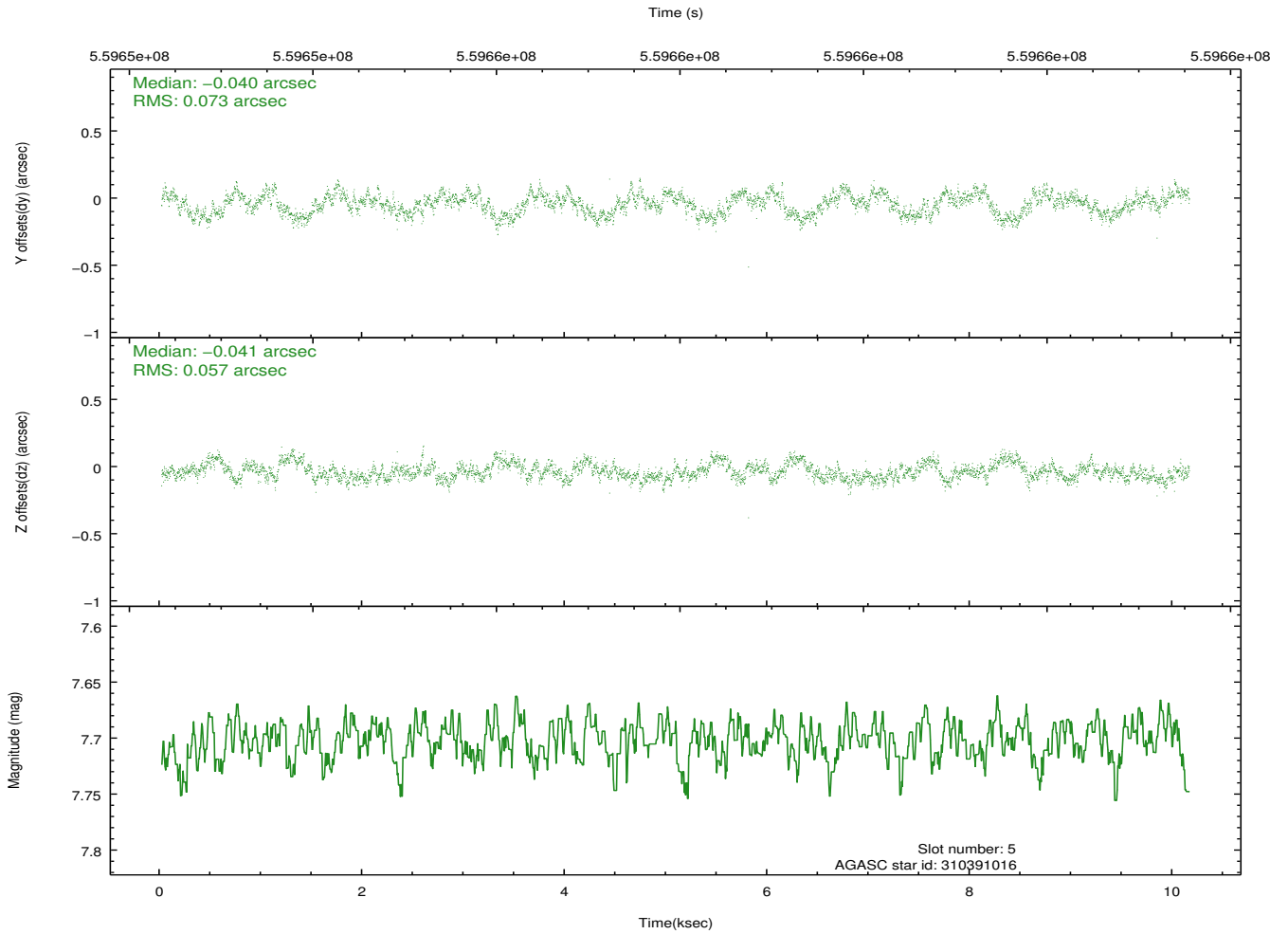
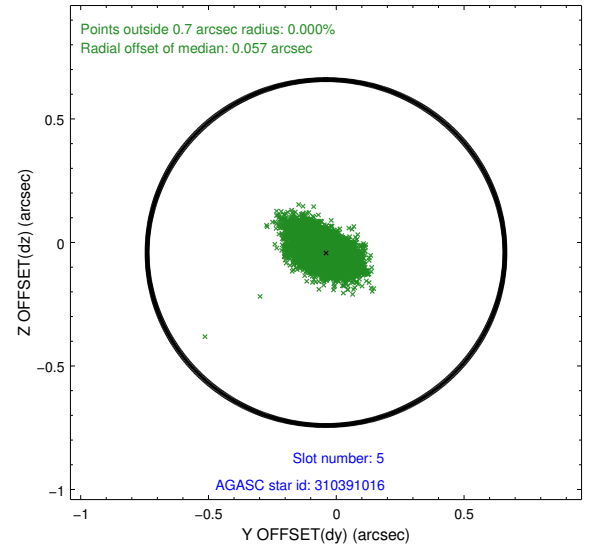
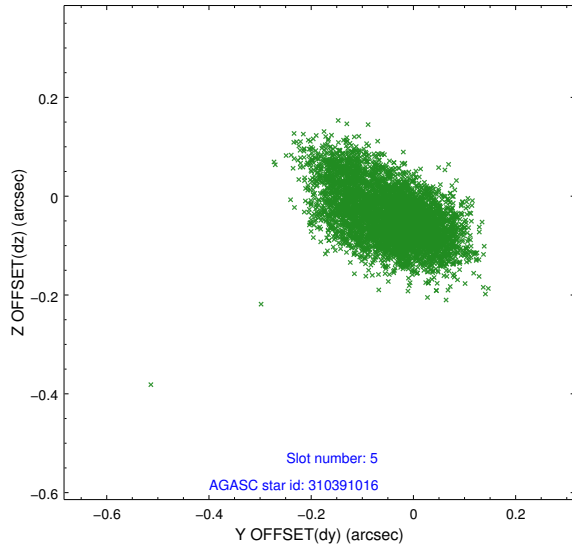
2.4.1 Slot 3



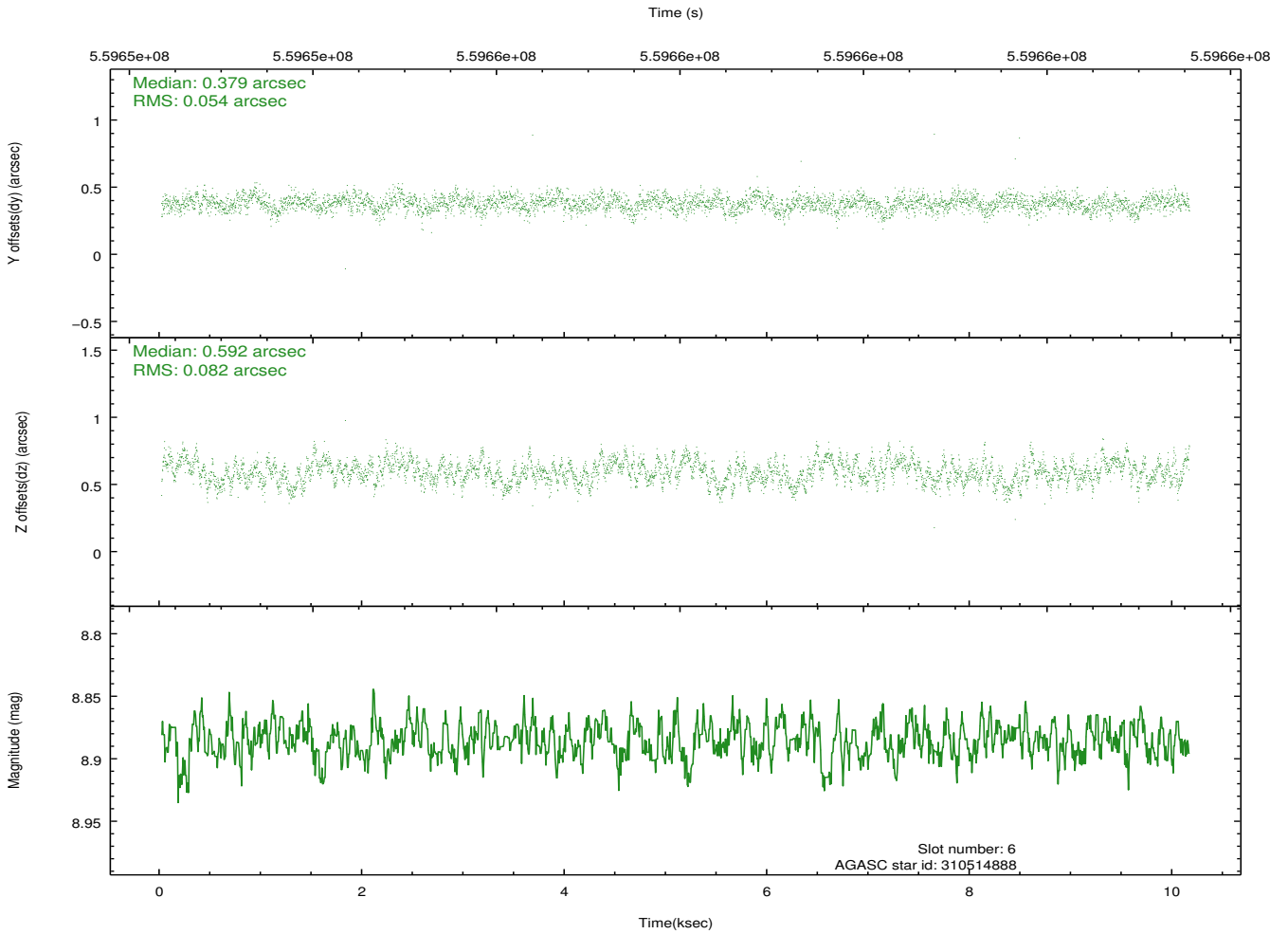
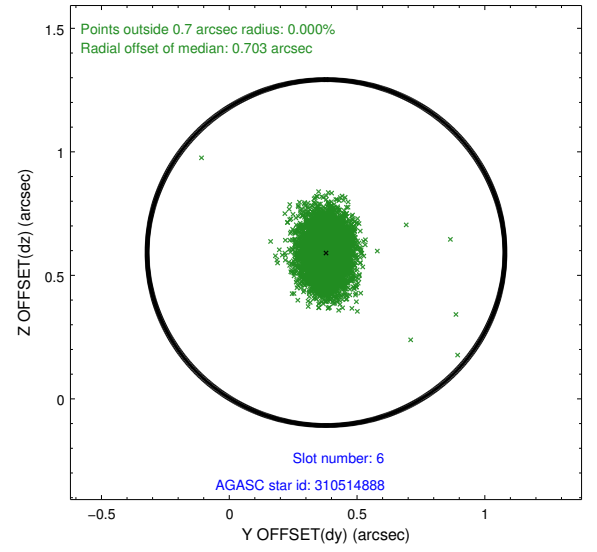
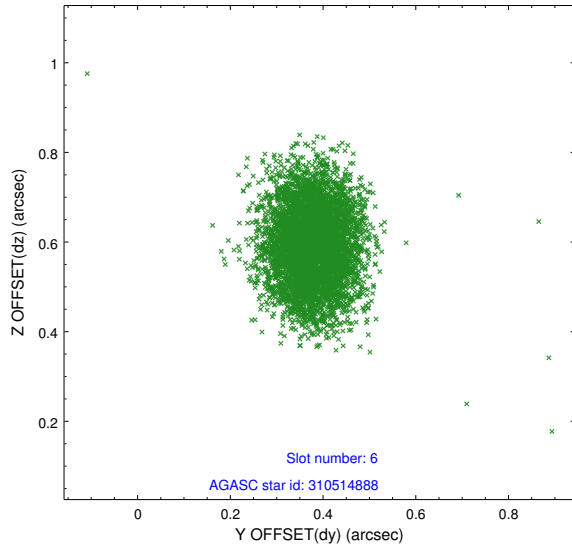
2.4.2 Slot 4



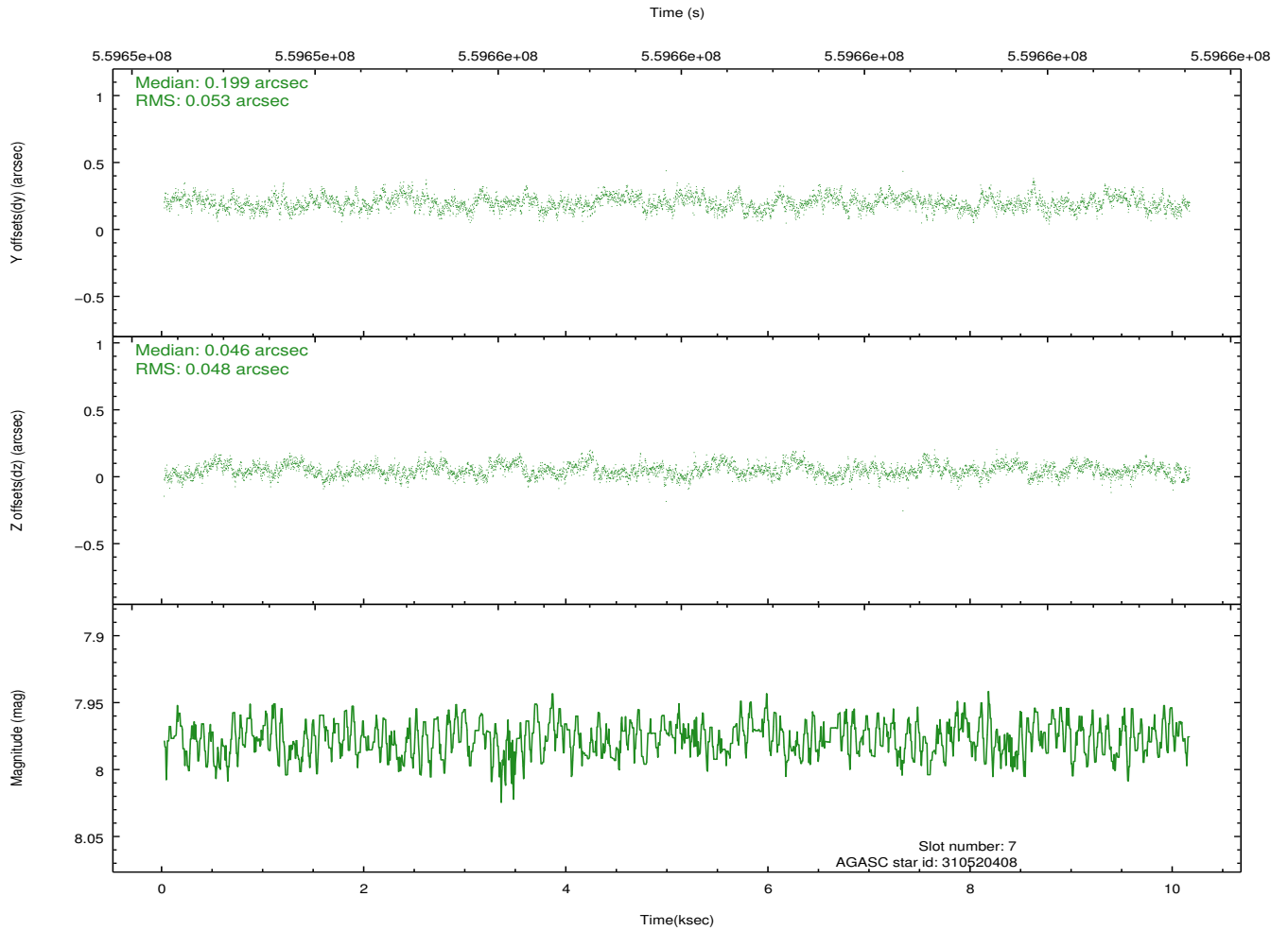
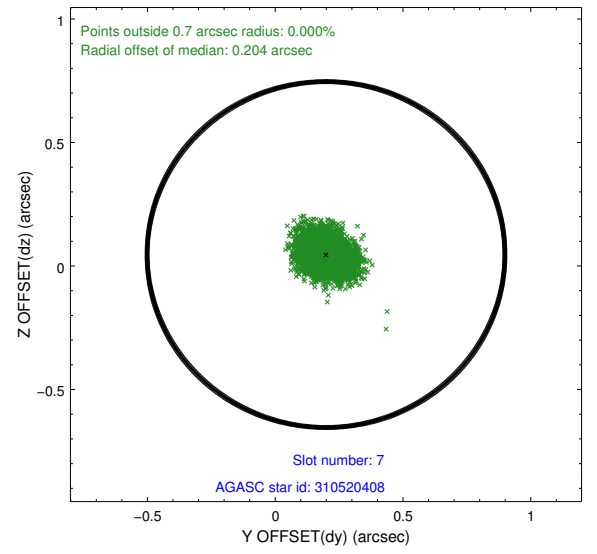
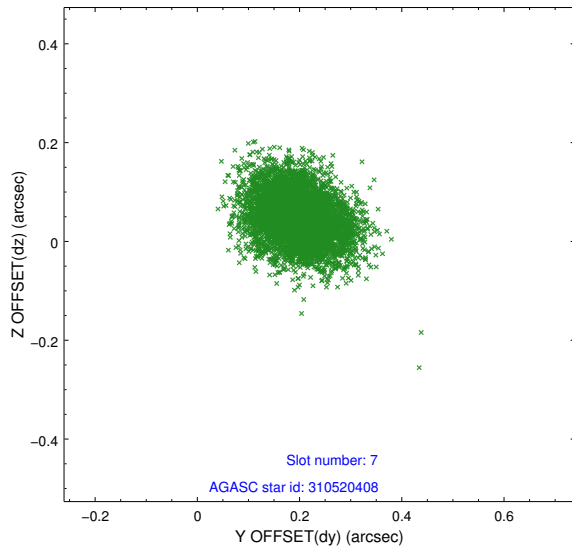
2.4.3 Slot 5



2.4.4 Slot 6

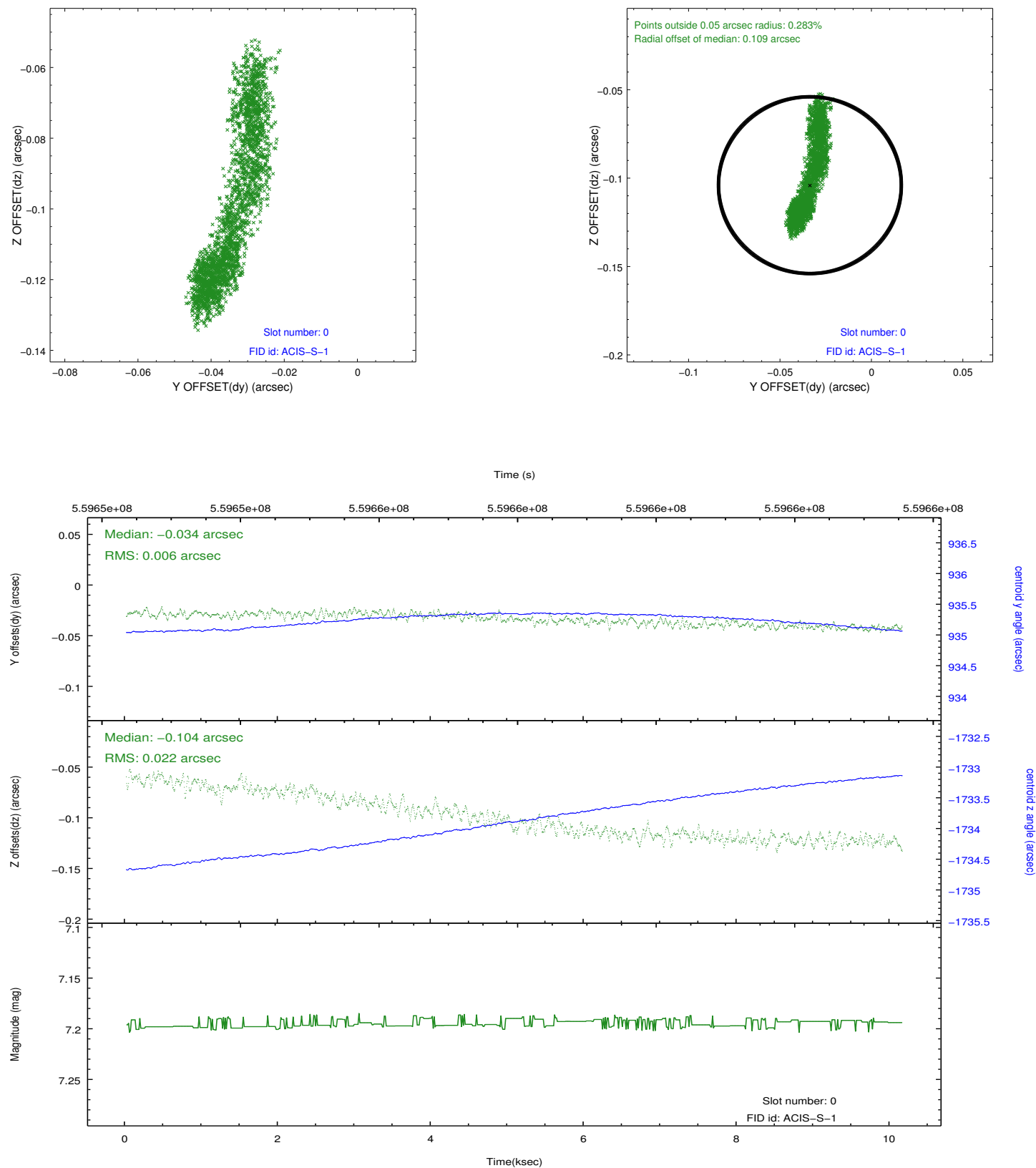


2.4.5 Slot 7

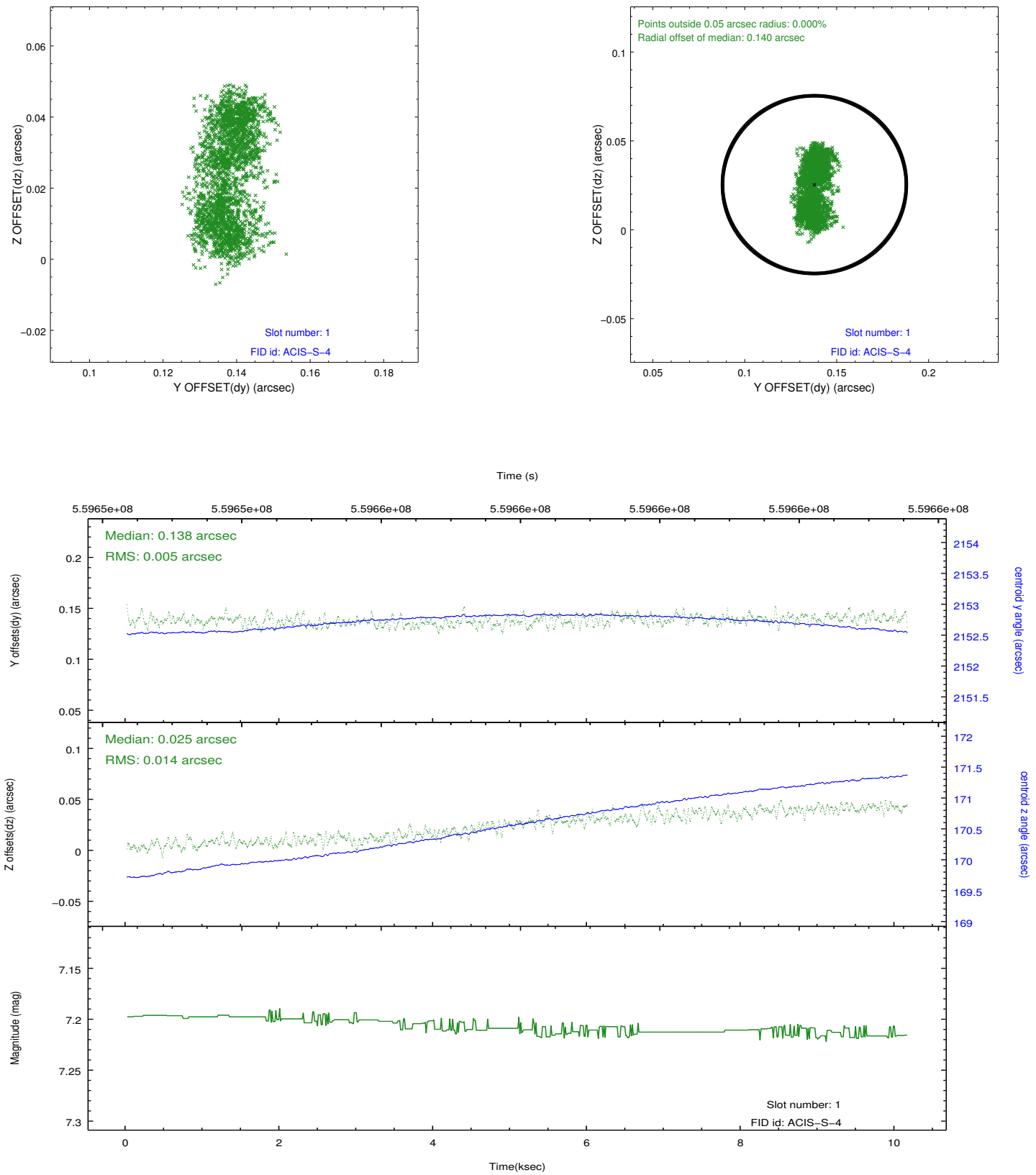


2.5 FID Slots

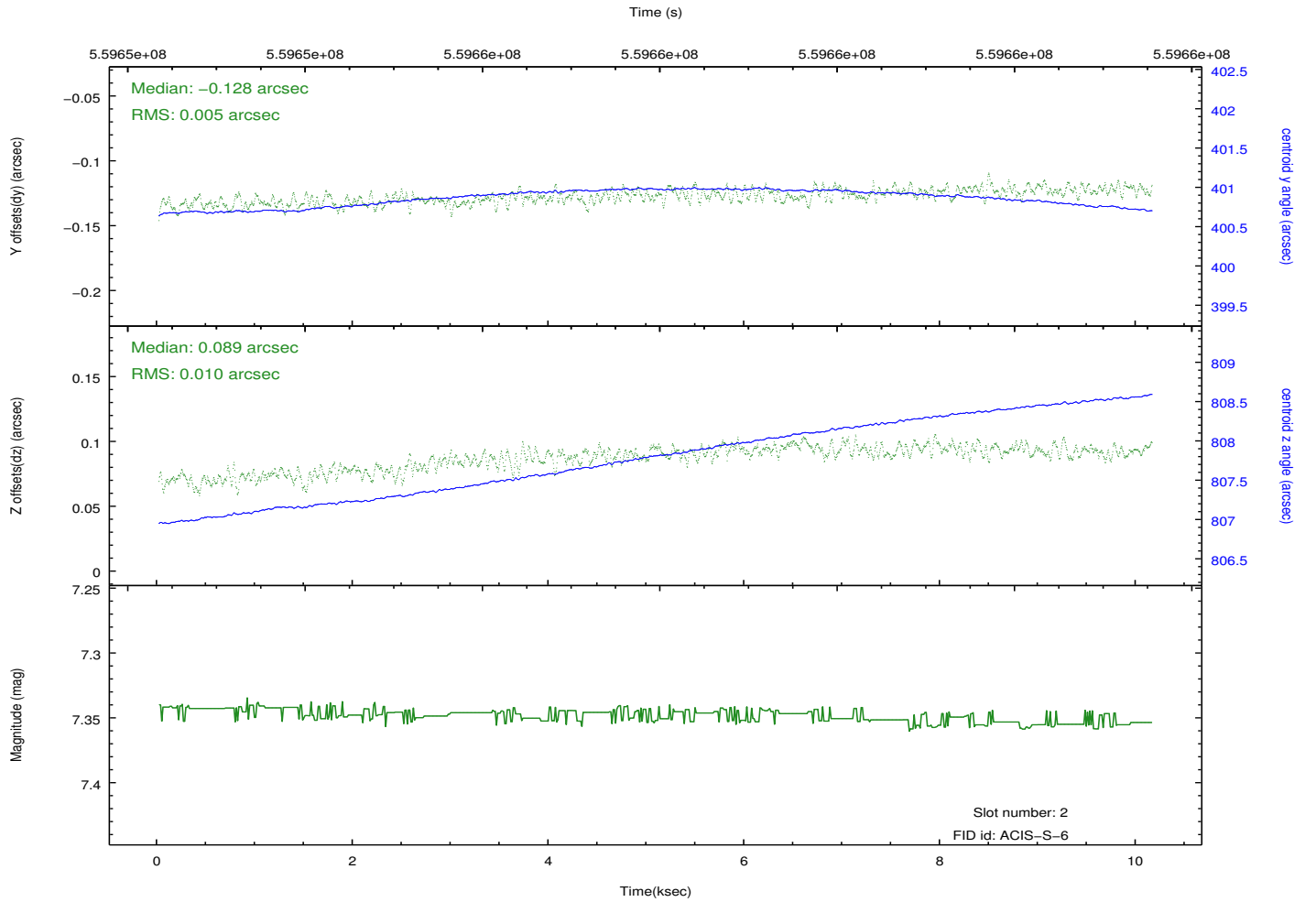
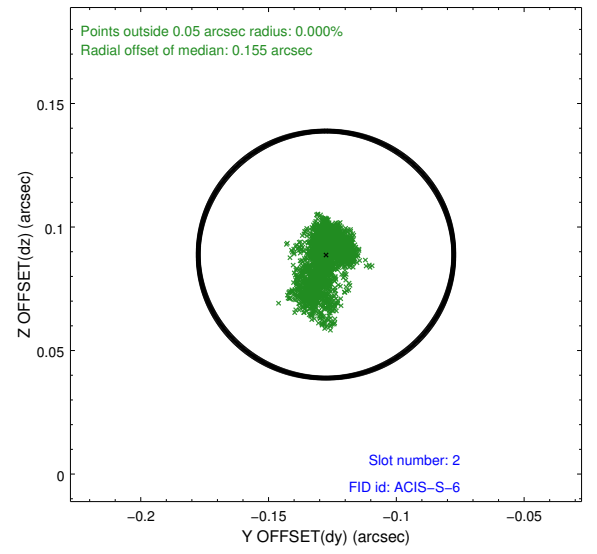
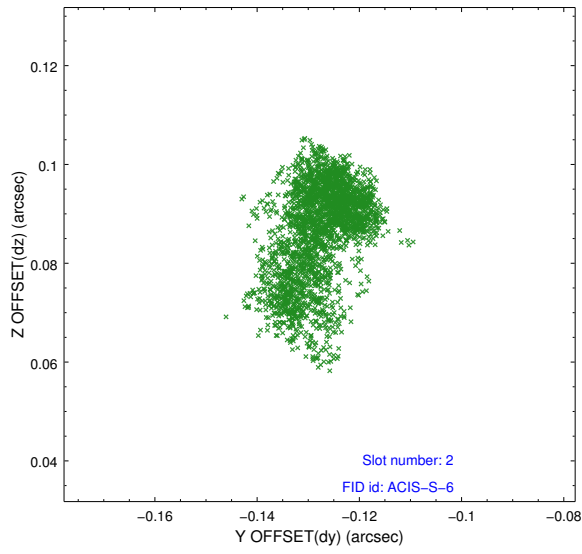
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2015.09.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.098715076089 |

A.2 Comments