

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18165 - L2 Version 1
Chandra X-Ray Center

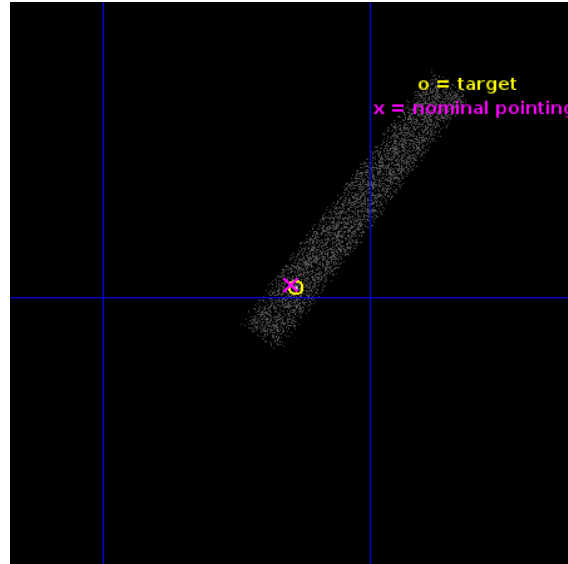
L2 Processing Date : Jan 19 2016

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1 Front

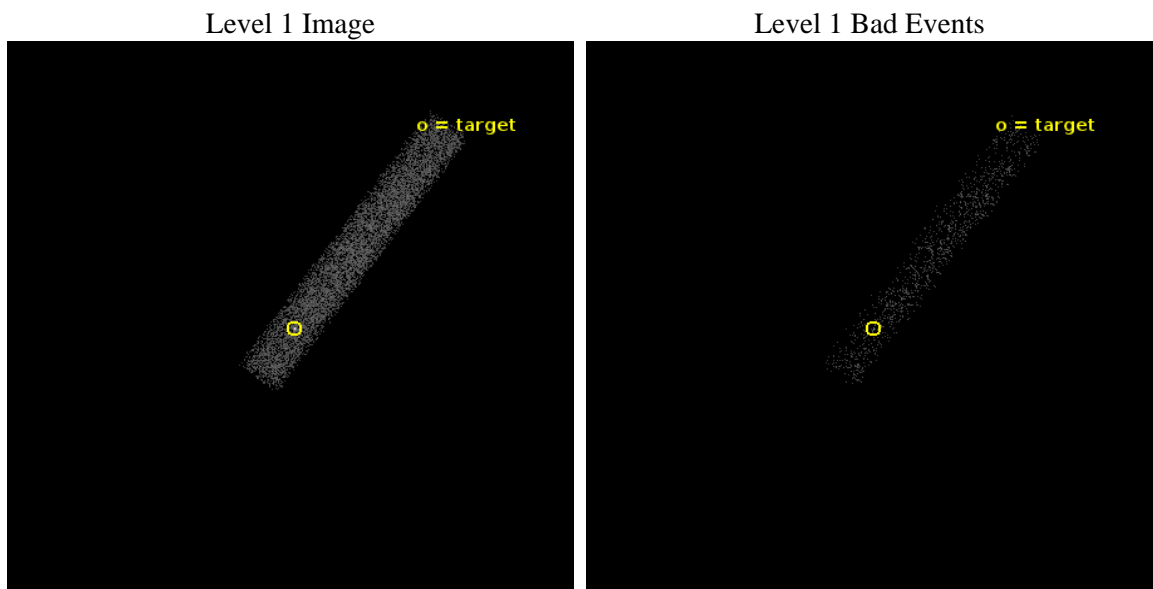
| | | |
|----------|--|---|
| seq_num | 703230 | Sequence number |
| obs_id | 18165 | Observation id |
| title | Chandra Legacy Survey of Merger Driven AGN Activation in Nearby X-ray Selected AGN | Proposal title |
| observer | Dr Michael Koss | Principal investigator |
| object | 2MASX J04293830-2109441 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 67.409583 | Observer's specified target RA [deg] |
| dec_targ | -21.162194 | Observer's specified target Dec [deg] |
| ra_nom | 67.411749630226 | Nominal RA [deg] |
| dec_nom | -21.160937345839 | Nominal Dec [deg] |
| roll_nom | 305.88360040684 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 10069.035122633 | Sum of GTIs [s] |
| livetime | 9132.0833689761 | Livetime [s] |
| ontime7 | 10069.035122633 | Sum of GTIs [s] |
| l2events | 5950 | Number of level 2 events |



2 OBI

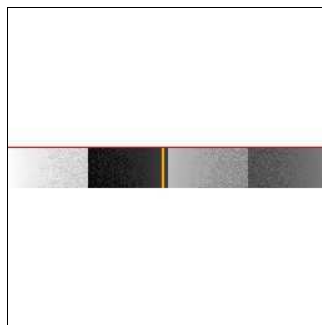
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.4.3 | Processing system revision | ontime | 10069.035122633 | Sum of GTIs [s] |
| caldsver | 4.7.0 | | ontime7 | 10069.035122633 | Sum of GTIs [s] |
| date | 2016-01-19T11:44:07 | Date and time of file creation | l1events | 11670 | Number of level 1 events |
| revision | 1 | Processing version of data | | | |

2.1.4 Events

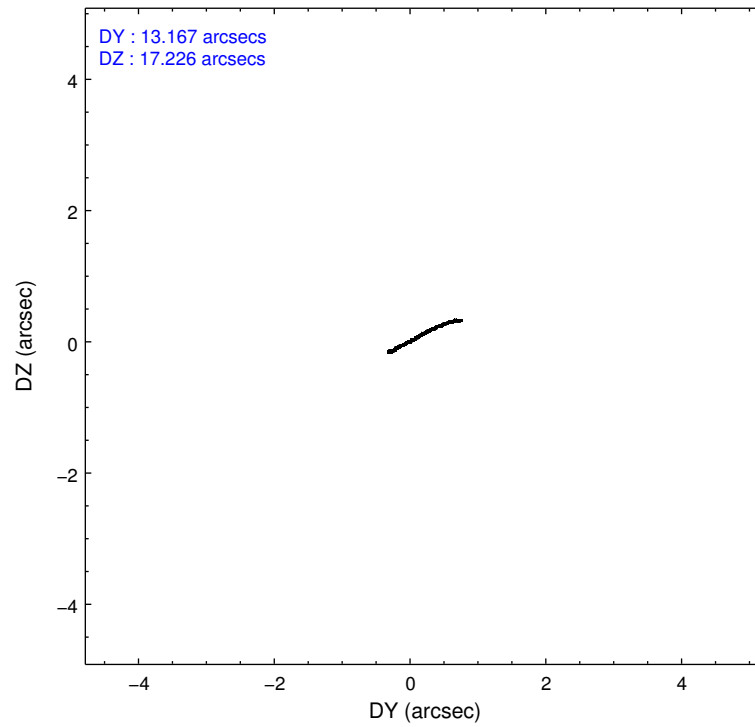
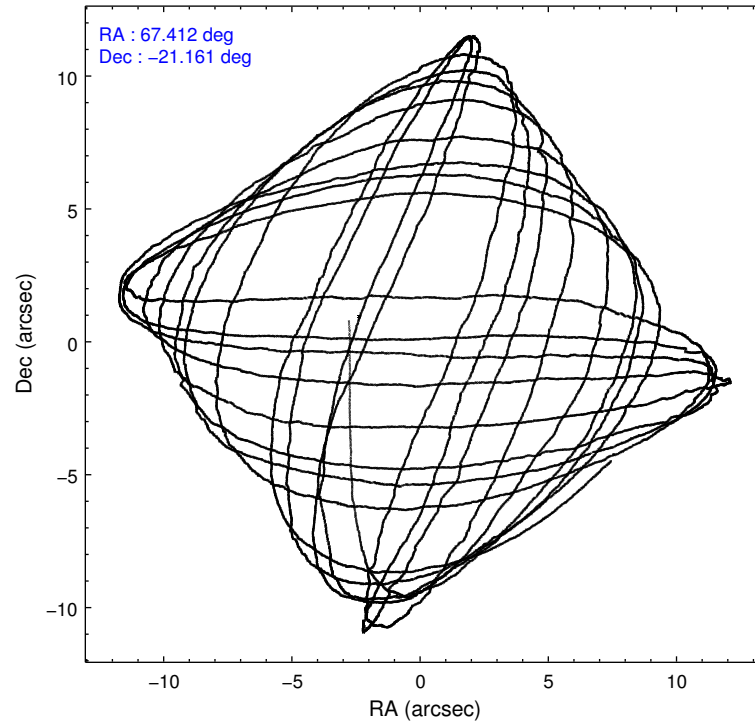
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 11670 |
| rejected events | 5487 |
| rejected % | 47% |

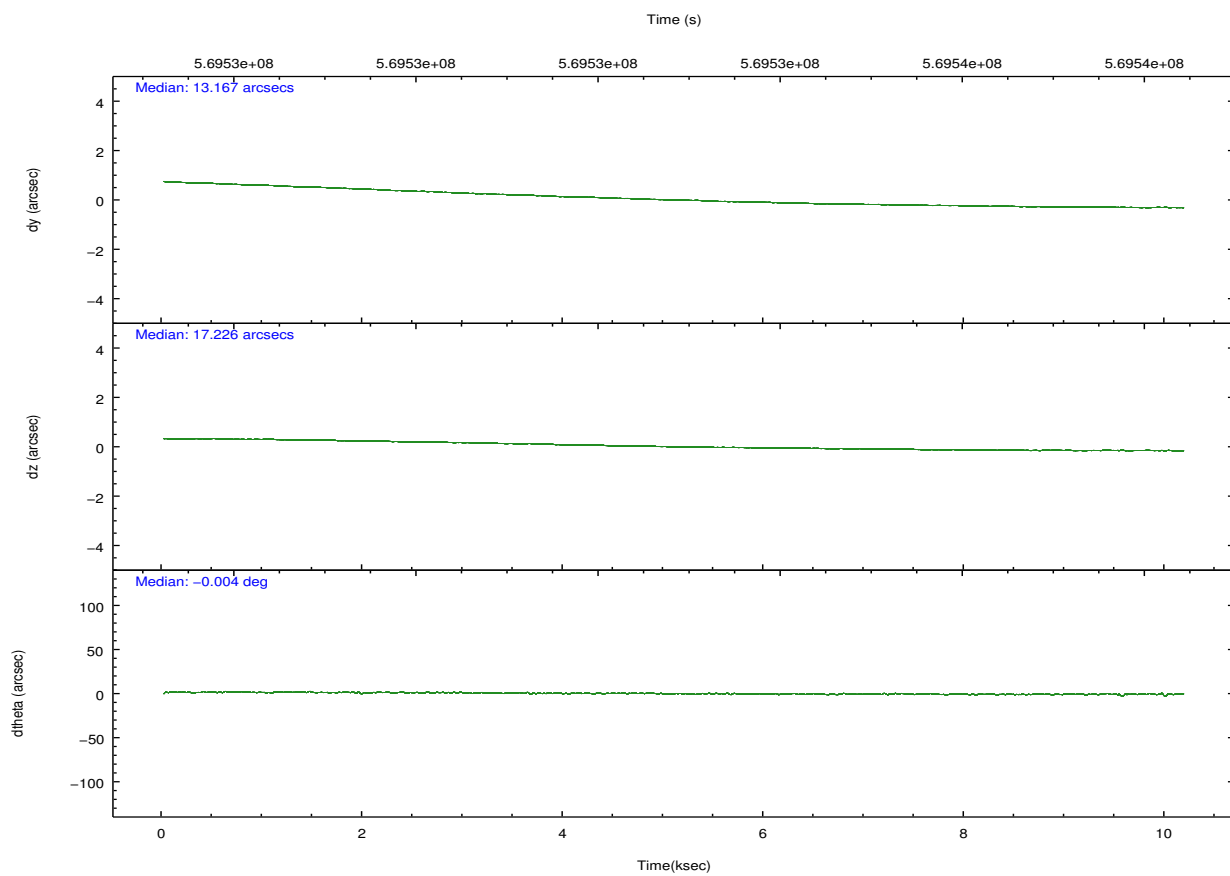
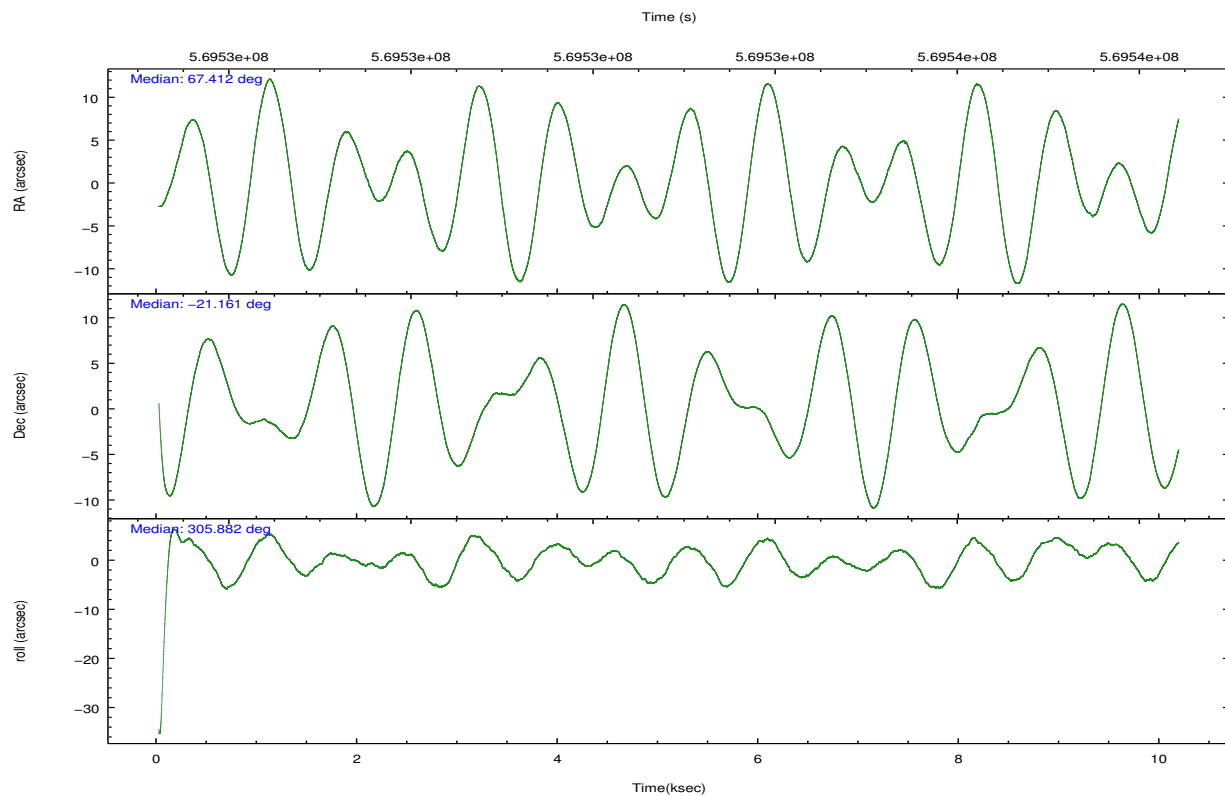
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 830 |
| | 7% |
| grade 1 events | 17 |
| | 0% |
| grade 2 events | 1249 |
| | 10% |
| grade 3 events | 817 |
| | 7% |
| grade 4 events | 707 |
| | 6% |
| grade 5 events | 1000 |
| | 8% |
| grade 6 events | 2582 |
| | 22% |
| grade 7 events | 4468 |
| | 38% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-7 | ACIS-7 | 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 | 67.384738 | 67.41174963022556 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -21.150019 | -21.16093734583944 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 305.717278 | 305.8836004068379 | Subarray row count | 128 | 128 |
| [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 | 0.4 |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 569527941.184000 | 569527077.52693 | | | |
| Observation start date | 2016-01-18T18:11:13 | 2016-01-18T17:57:57 | | | |
| [s] Observation end time (MET) | 569537941.184000 | 569538563.67759 | | | |
| Observation end date | 2016-01-18T20:57:53 | 2016-01-18T21:09:23 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



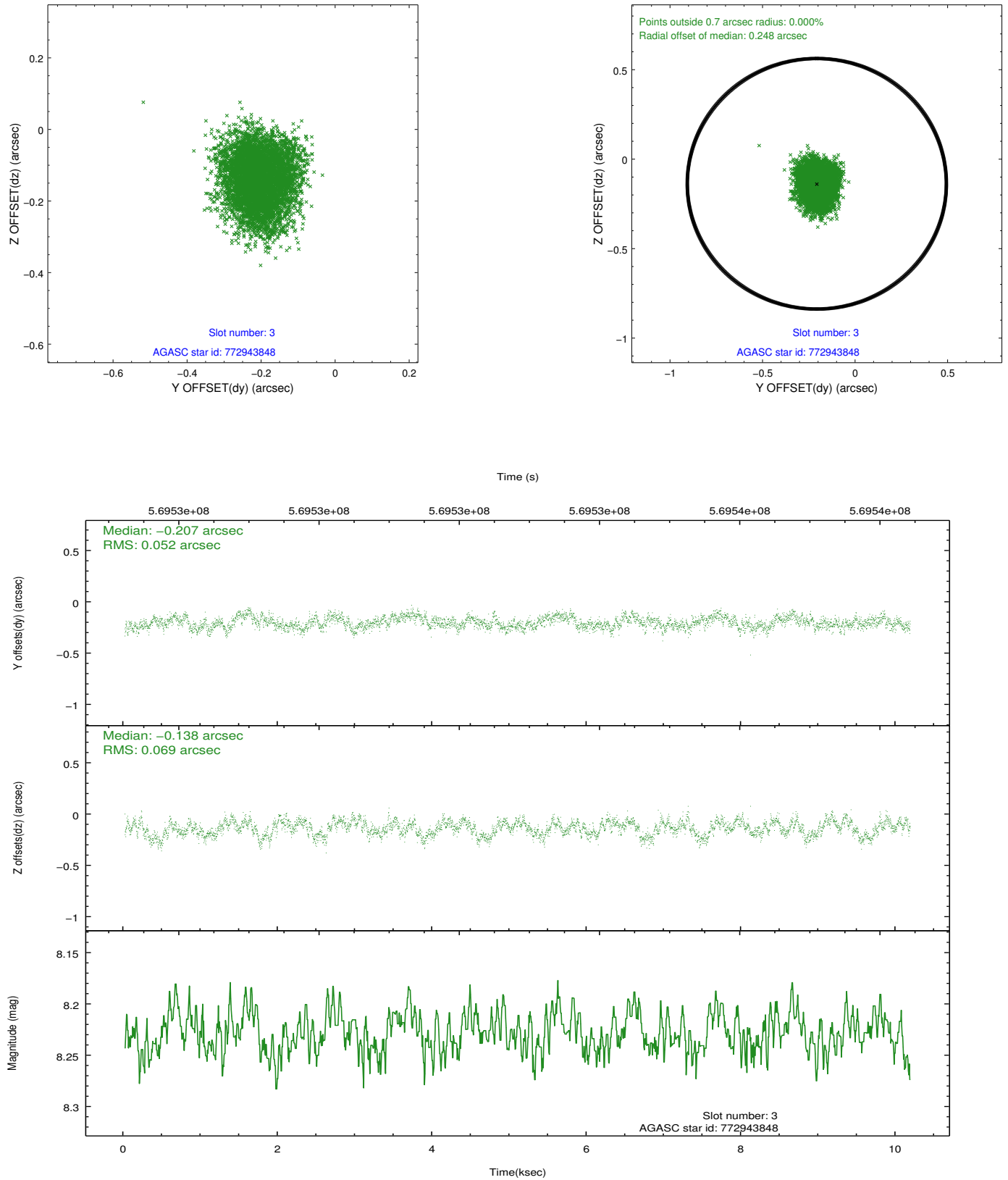


Slot Statistics

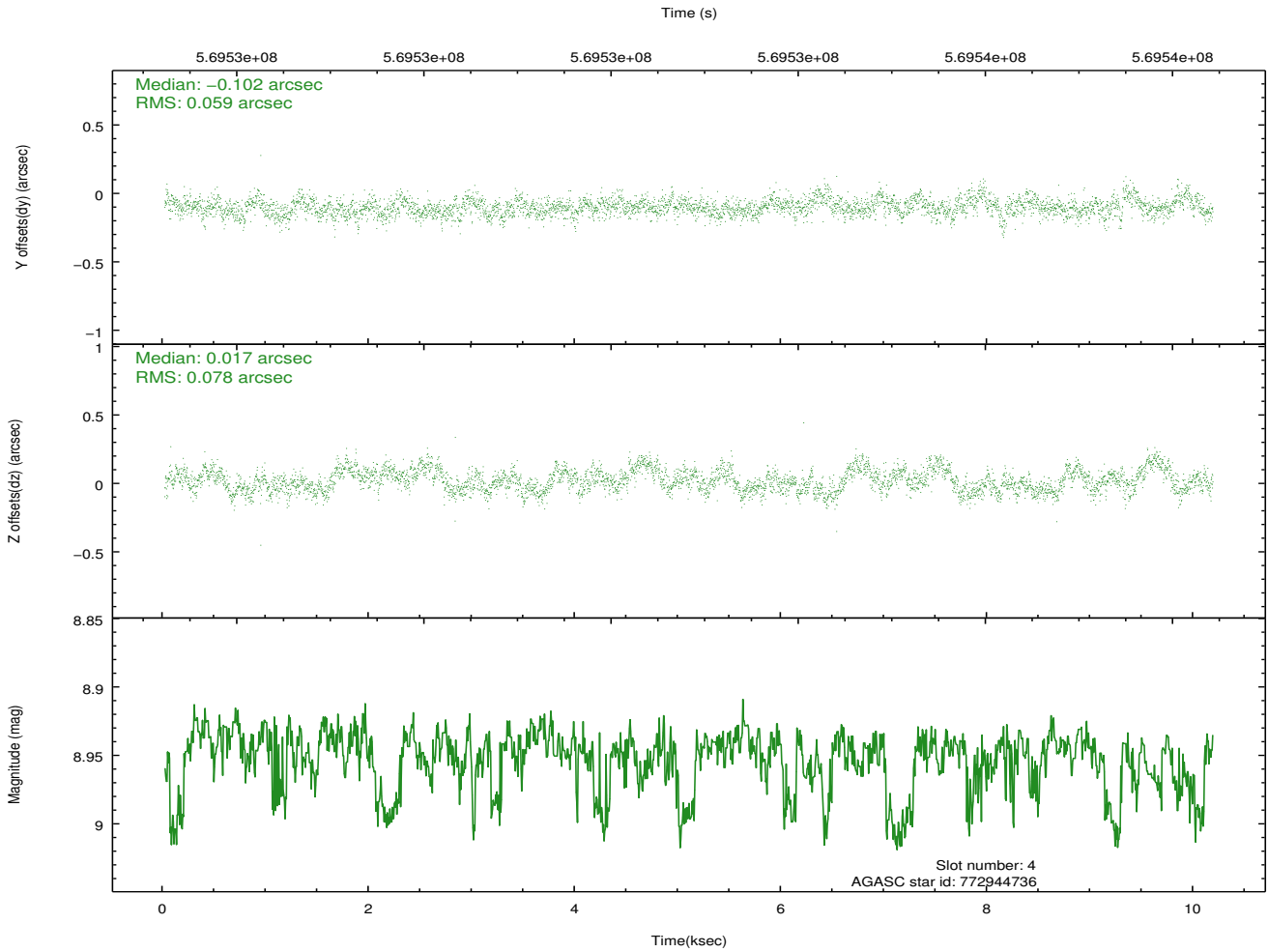
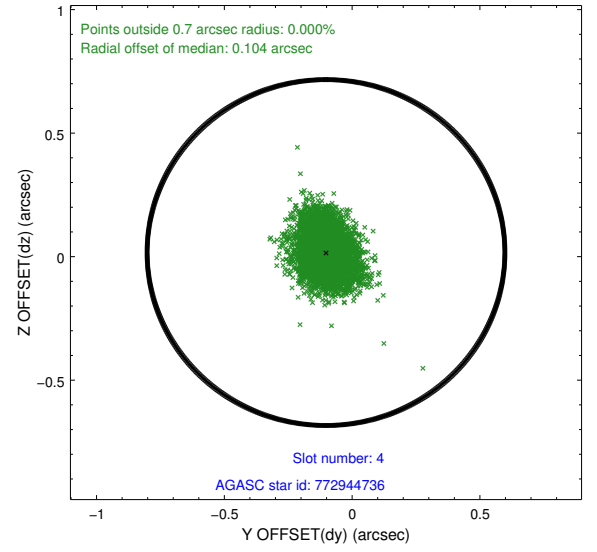
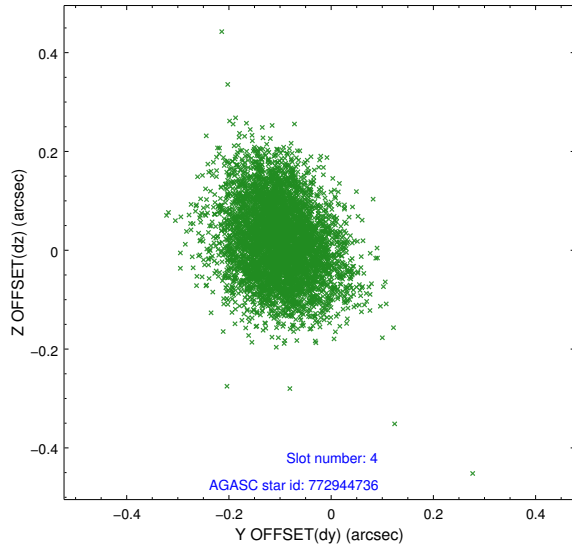
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | | ACIS-S-2 | 7.13 | 2481 | -0.112 | -0.112 | 0.018 | 0.031 | 0.000000 | 0.000000 | -766.29 | -1738.82 |
| 1 | FID | | ACIS-S-4 | 7.24 | 2481 | 0.388 | 0.083 | 0.021 | 0.034 | 0.000000 | 0.000000 | 2147.26 | 169.31 |
| 2 | FID | | ACIS-S-5 | 7.25 | 2480 | -0.306 | 0.036 | 0.012 | 0.020 | 0.000000 | 0.000000 | -1818.65 | 163.54 |
| 3 | GUIDE | used | 772943848 | 8.23 | 4961 | -0.207 | -0.138 | 0.093 | 0.145 | 67.978372 | -21.228786 | 1396.39 | 1449.80 |
| 4 | GUIDE | used | 772944736 | 8.95 | 4959 | -0.102 | 0.017 | 0.103 | 0.169 | 67.344634 | -20.465583 | -2079.16 | 1329.19 |
| 5 | GUIDE | used | 772945064 | 8.02 | 4961 | -0.094 | -0.388 | 0.093 | 0.149 | 67.698394 | -21.374303 | 1269.92 | 381.94 |
| 6 | GUIDE | used | 772807760 | 8.74 | 4959 | 0.081 | 0.243 | 0.087 | 0.143 | 66.608608 | -20.960898 | -2069.94 | -1723.85 |
| 7 | GUIDE | used | 772944904 | 9.09 | 4949 | 0.323 | 0.267 | 0.106 | 0.173 | 66.702917 | -21.418504 | -545.11 | -2422.21 |

2.4 Star Slots

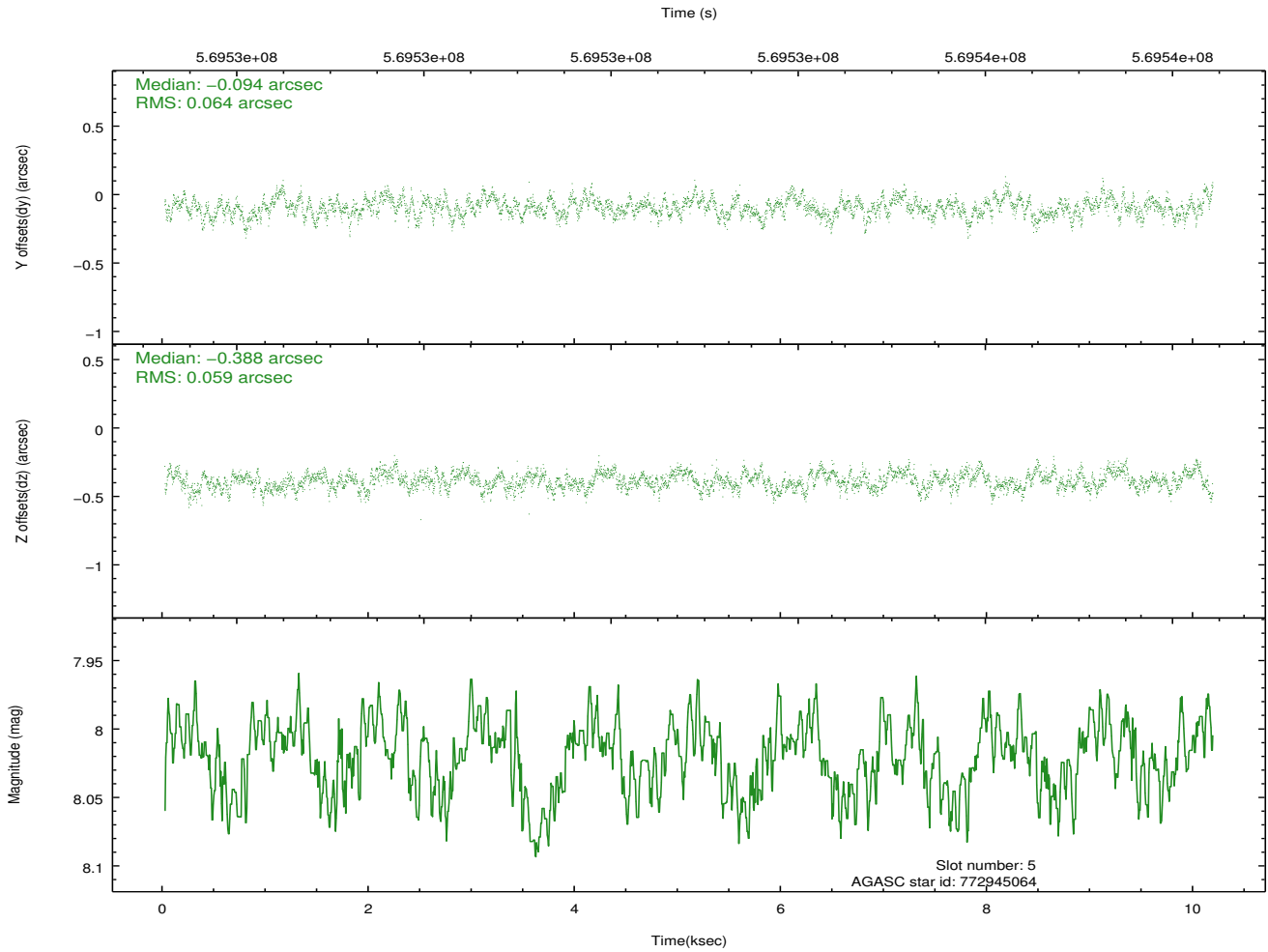
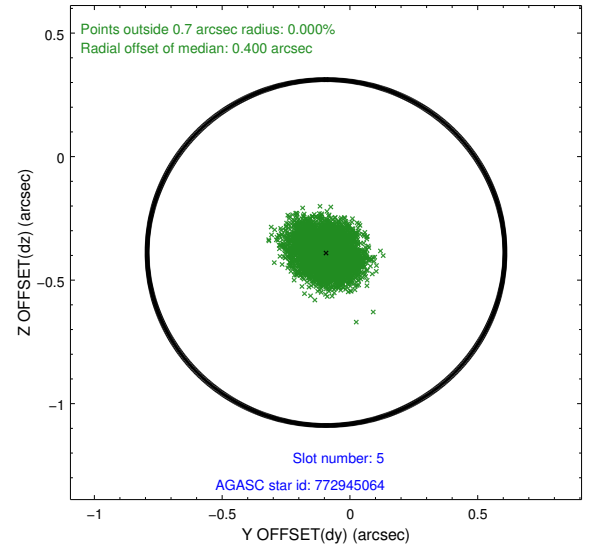
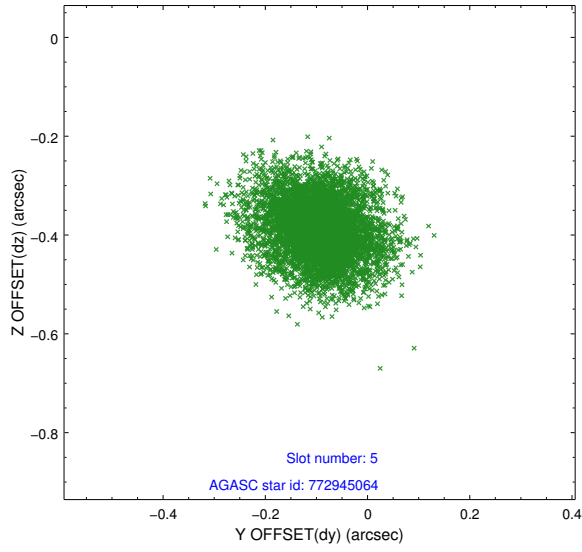
2.4.1 Slot 3



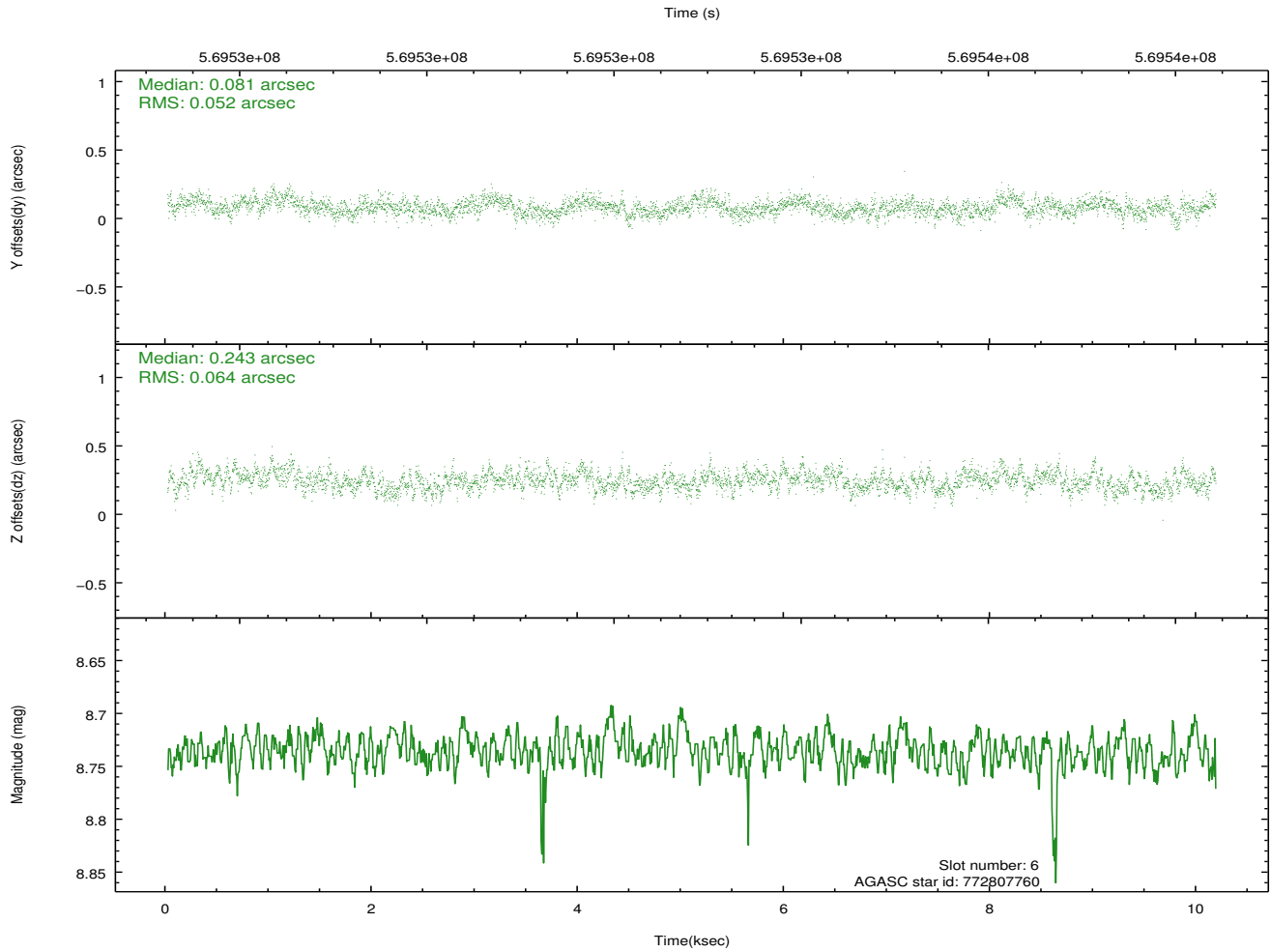
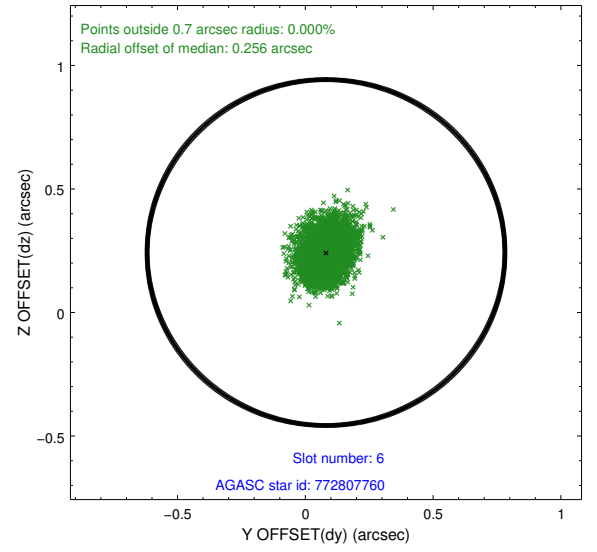
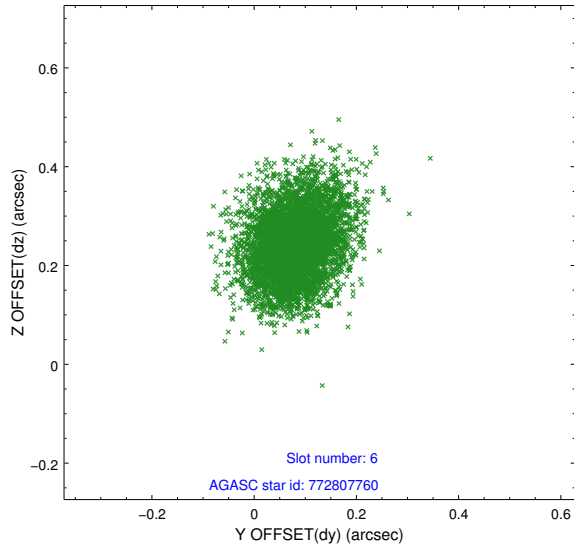
2.4.2 Slot 4



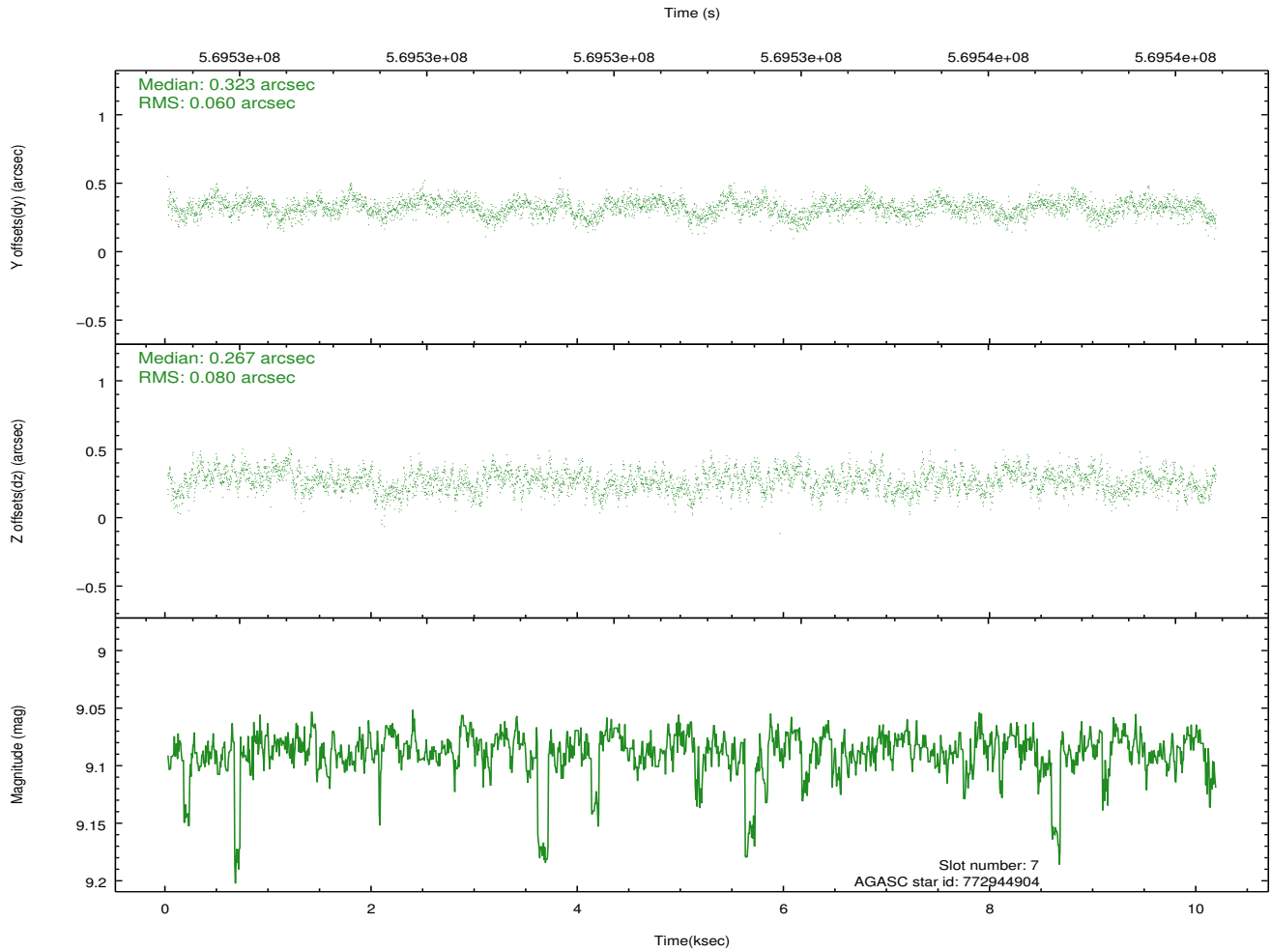
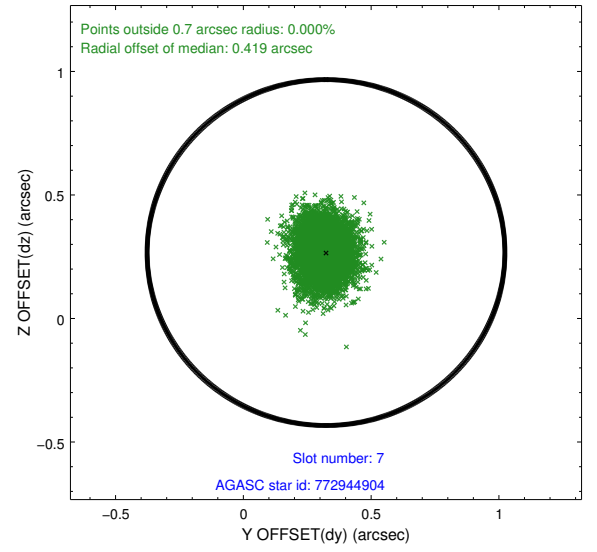
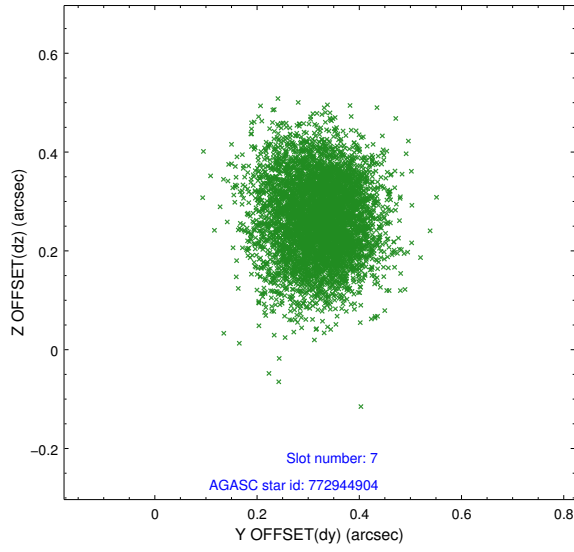
2.4.3 Slot 5



2.4.4 Slot 6

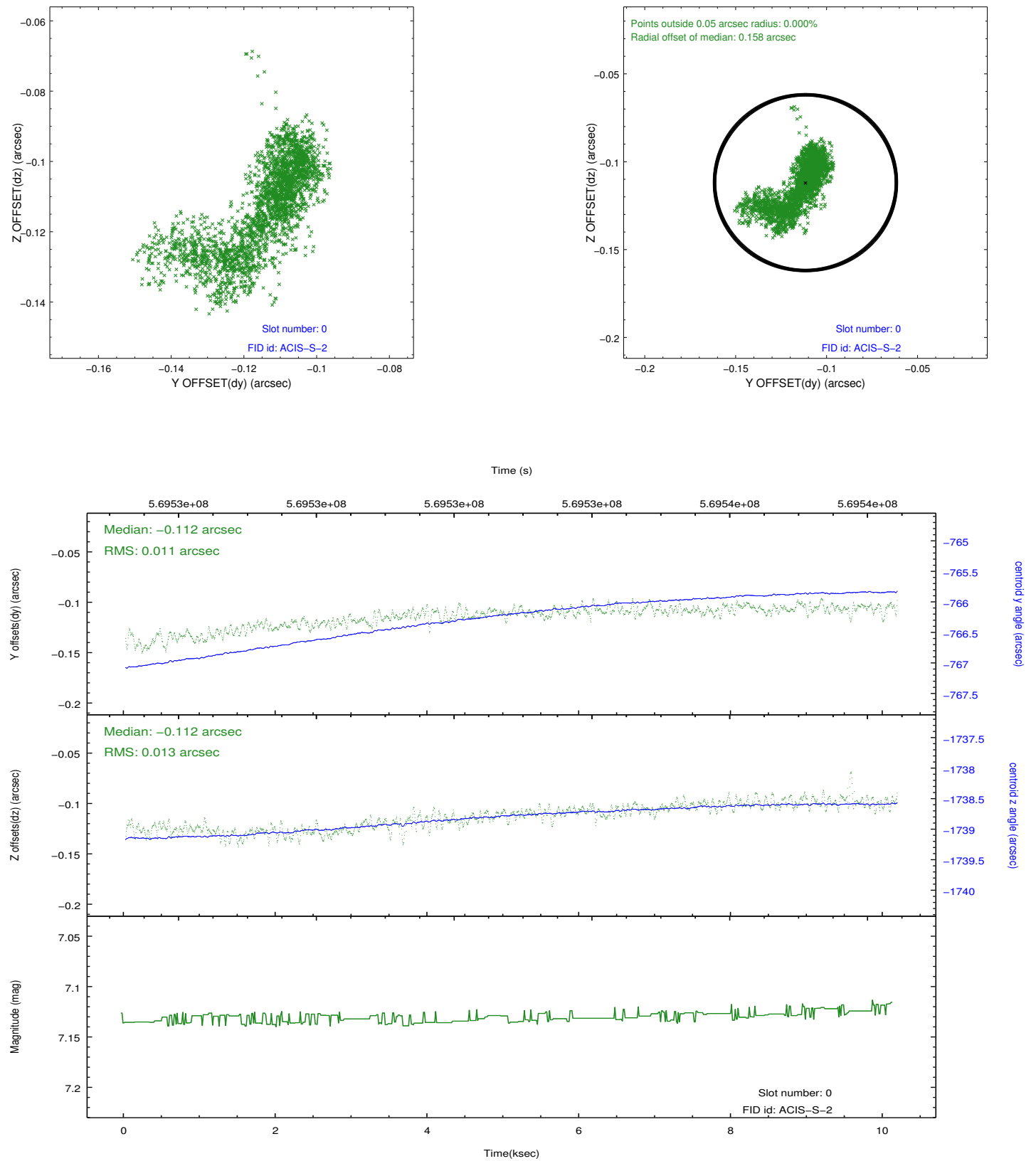


2.4.5 Slot 7

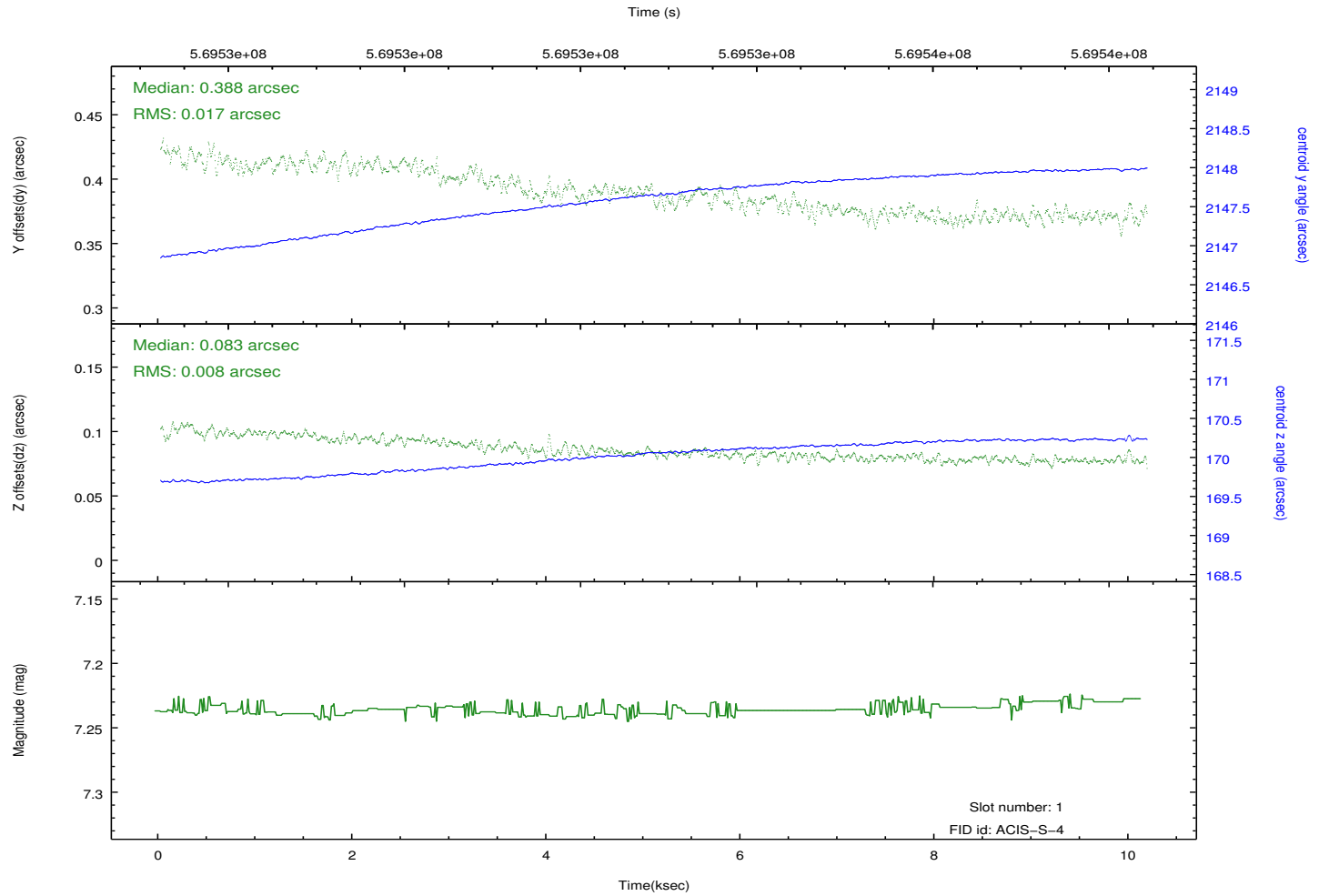
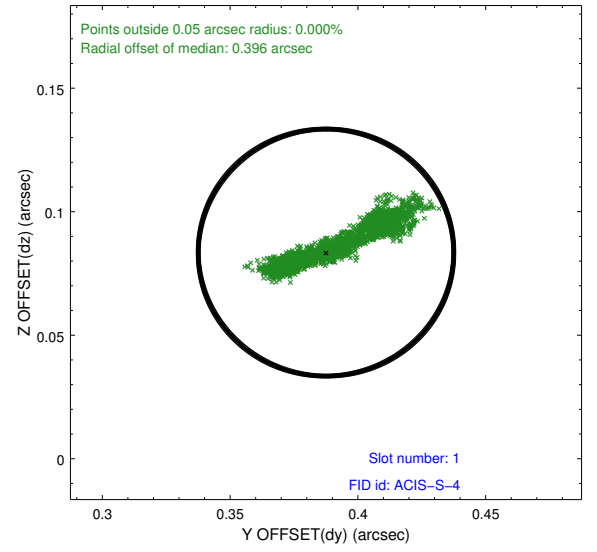
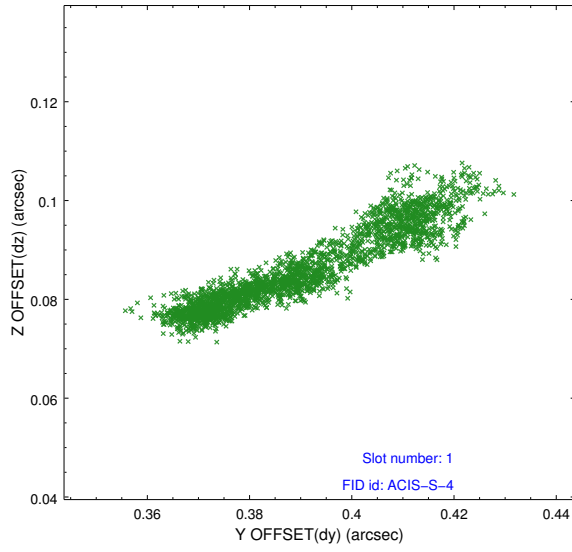


2.5 FID Slots

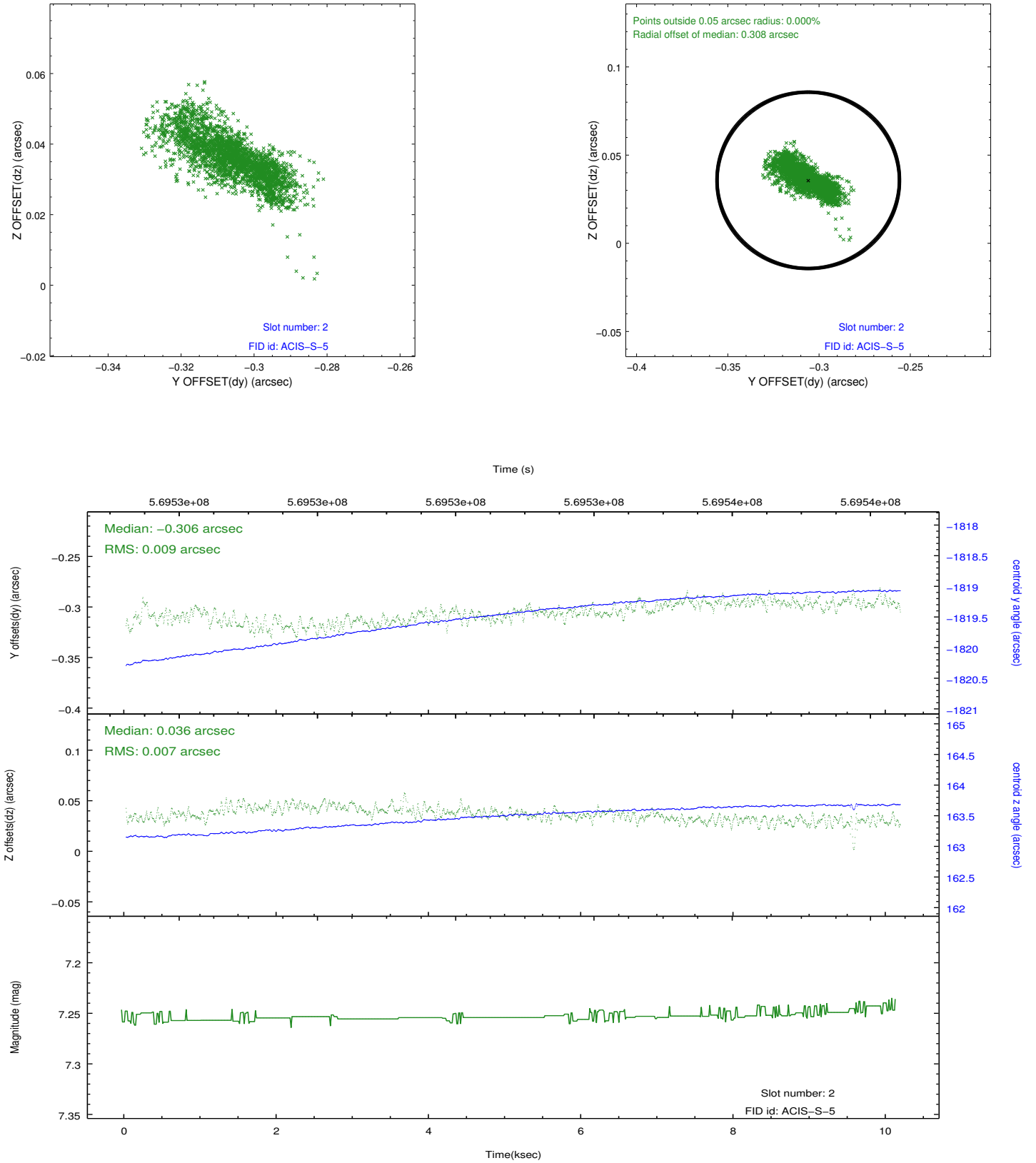
2.5.1 Slot 0



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) | 2016.01.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.069035122633 |

A.2 Comments