

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1032 - L2 Version 3
Chandra X-Ray Center

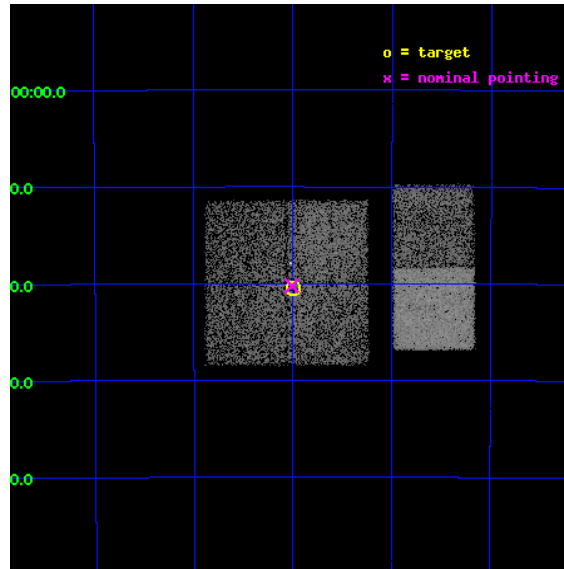
L2 Processing Date : Sep 2 2012

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1 Front

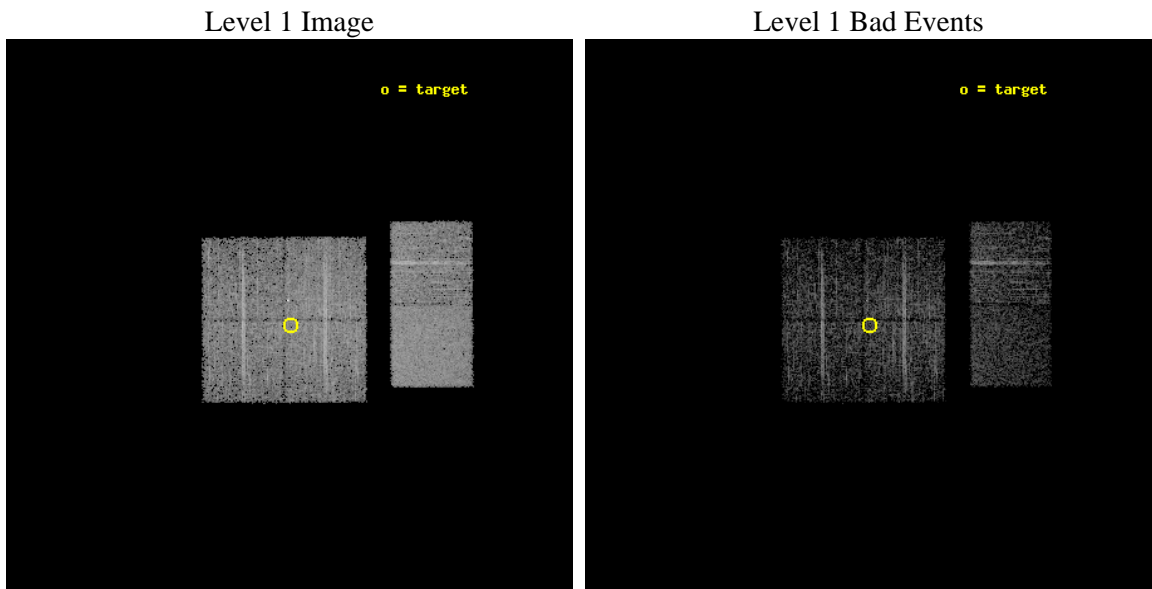
| | | |
|----------|--------------------------|------------------------------------------|
| seq_num | 500098 | Sequence number |
| obs_id | 1032 | Observation id |
| title | NEAREST SNR | Proposal title |
| observer | Professor Gordon Garmire | Principal investigator |
| object | RX J0852.0-4622 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 133.0 | Observer's specified target RA [deg] |
| dec_targ | -46.341667 | Observer's specified target Dec [deg] |
| ra_nom | 133.00250937238 | Nominal RA [deg] |
| dec_nom | -46.337319537683 | Nominal Dec [deg] |
| roll_nom | 89.769199157661 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 3033.6000028104 | Sum of GTIs [s] |
| livetime | 2995.1867329602 | Livetime [s] |
| ontime0 | 3033.6000028104 | Sum of GTIs [s] |
| ontime1 | 3033.6000028104 | Sum of GTIs [s] |
| ontime2 | 3033.6000028104 | Sum of GTIs [s] |
| ontime3 | 3033.6000028104 | Sum of GTIs [s] |
| ontime6 | 3033.6000028104 | Sum of GTIs [s] |
| ontime7 | 3033.6000028104 | Sum of GTIs [s] |
| l2events | 42986 | Number of level 2 events |



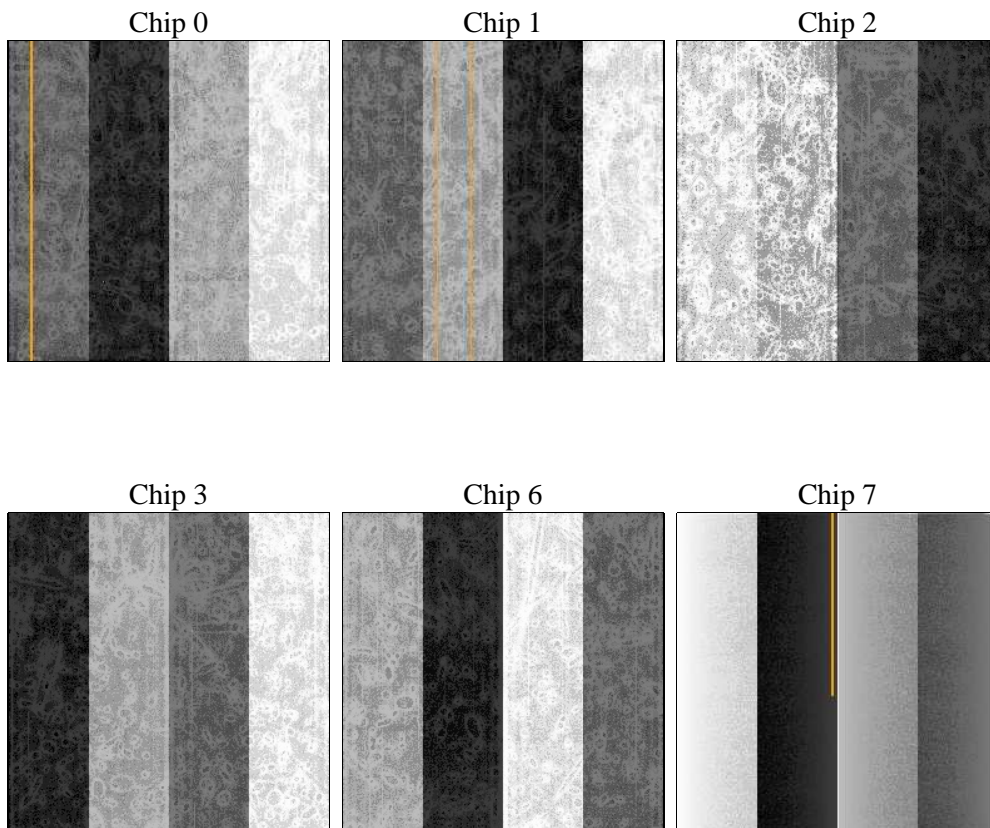
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-----------------------------------------|
| obi_num | 0 | Obi number | sched_exp_time | 3000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 3033.6000028104 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime0 | 3033.6000028104 | Sum of GTIs [s] |
| date | 2012-09-02T23:37:02 | Date and time of file creation | ontime1 | 3033.6000028104 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 3033.6000028104 | Sum of GTIs [s] |
| | | | ontime3 | 3033.6000028104 | Sum of GTIs [s] |
| | | | ontime6 | 3033.6000028104 | Sum of GTIs [s] |
| | | | ontime7 | 3033.6000028104 | Sum of GTIs [s] |
| | | | l1events | 156881 | Number of level 1 events |

2.1.4 Events

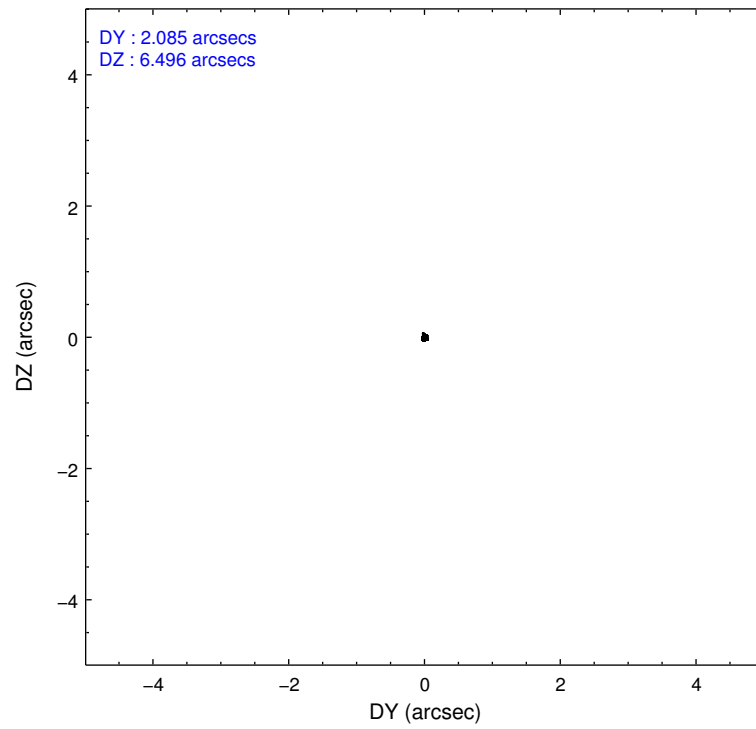
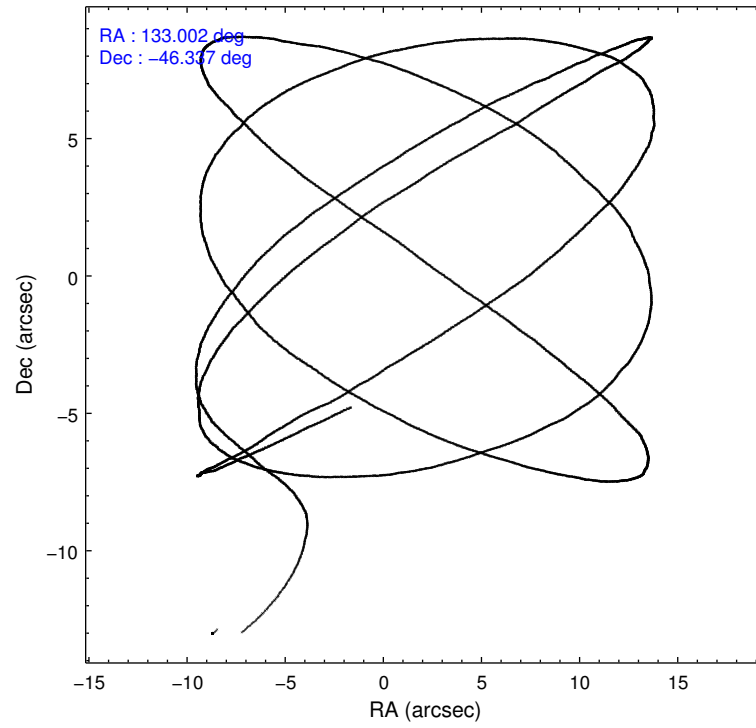
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 20604 | 21980 | 27993 | 26595 | 26725 | 32984 | grade 0 events | 2725 | 2952 | 5649 | 3397 | 3813 | 4577 |
| rejected events | 15884 | 17037 | 19995 | 21182 | 20810 | 14941 | | 13% | 13% | 20% | 12% | 14% | 13% |
| rejected % | 77% | 77% | 71% | 79% | 77% | 45% | grade 1 events | 22 | 18 | 51 | 19 | 14 | 37 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 892 | 778 | 1116 | 895 | 950 | 3868 |
| | | | | | | | | 4% | 3% | 3% | 3% | 3% | 11% |
| | | | | | | | grade 3 events | 261 | 291 | 269 | 232 | 280 | 1720 |
| | | | | | | | | 1% | 1% | 0% | 0% | 1% | 5% |
| | | | | | | | grade 4 events | 256 | 277 | 352 | 235 | 277 | 1724 |
| | | | | | | | | 1% | 1% | 1% | 0% | 1% | 5% |
| | | | | | | | grade 5 events | 672 | 720 | 658 | 773 | 838 | 2545 |
| | | | | | | | | 3% | 3% | 2% | 2% | 3% | 7% |
| | | | | | | | grade 6 events | 593 | 658 | 624 | 662 | 604 | 6193 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 18% |
| | | | | | | | grade 7 events | 15183 | 16286 | 19274 | 20382 | 19949 | 12320 |
| | | | | | | | | 73% | 74% | 68% | 76% | 74% | 37% |

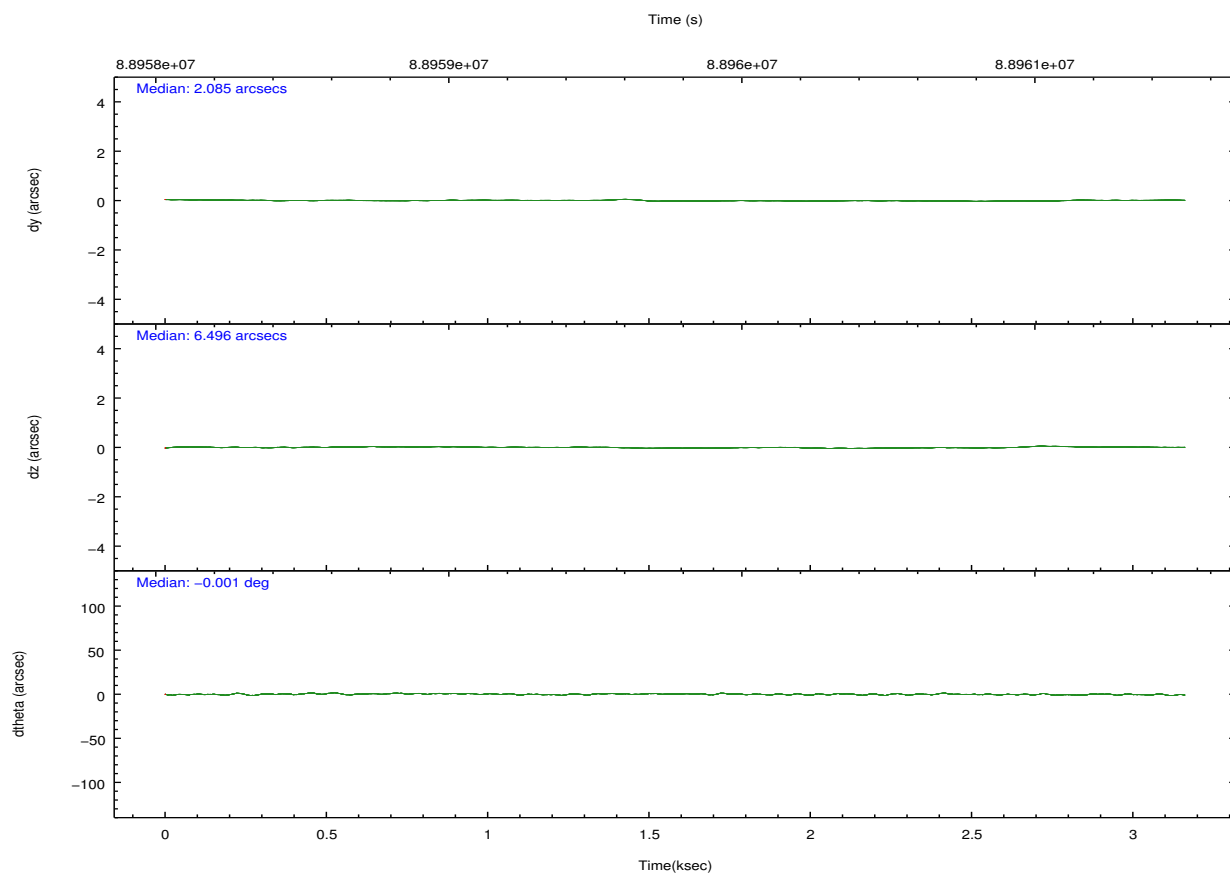
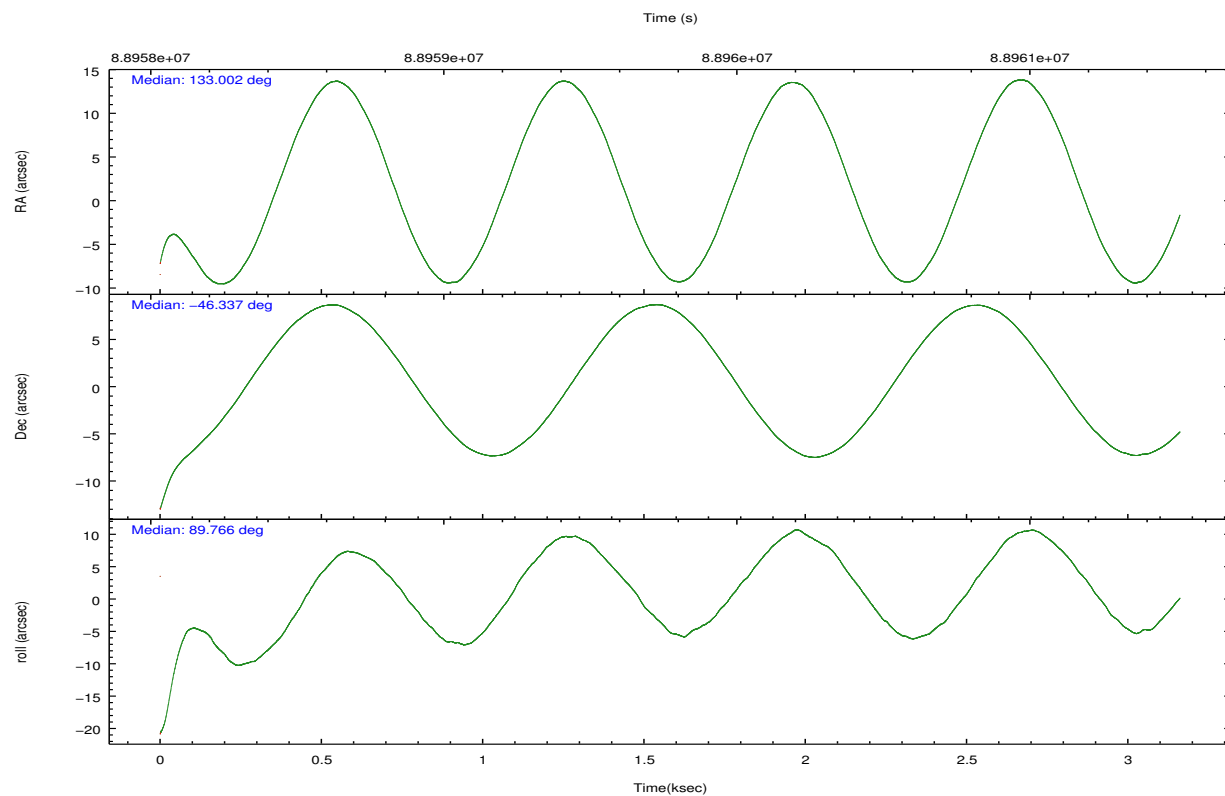
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 133.022492 | 133.002509372378 |
| [deg] Pointing Dec | -46.361114 | -46.33731953768348 |
| [deg] Pointing Roll | 89.575052 | 89.76919915766057 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 |
| [mm] SIM defocus | 0 | 0.001439871863259334 |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 |
| [s] Observation start time (MET) | 88958353.184000 | 88957351.99511901 |
| Observation start date | 2000-10-26T14:38:09 | 2000-10-26T14:22:31 |
| [s] Observation end time (MET) | 88961353.184000 | 88961913.24529199 |
| Observation end date | 2000-10-26T15:28:09 | 2000-10-26T15:38:33 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| Number of optional ACIS chips dropped | 0 | 0 |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 0.000000 | 3.2 |

2.3 Aspect



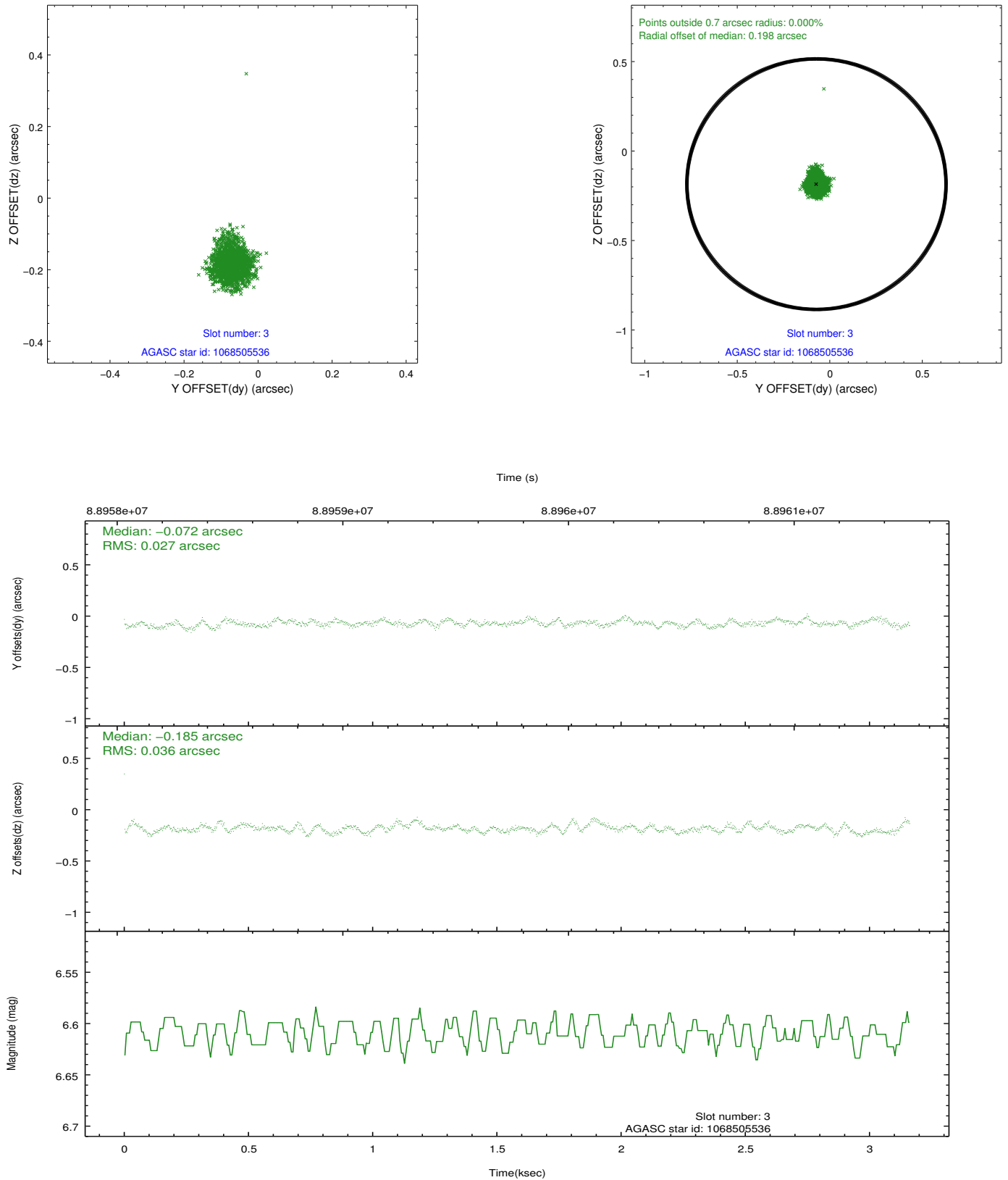


Slot Statistics

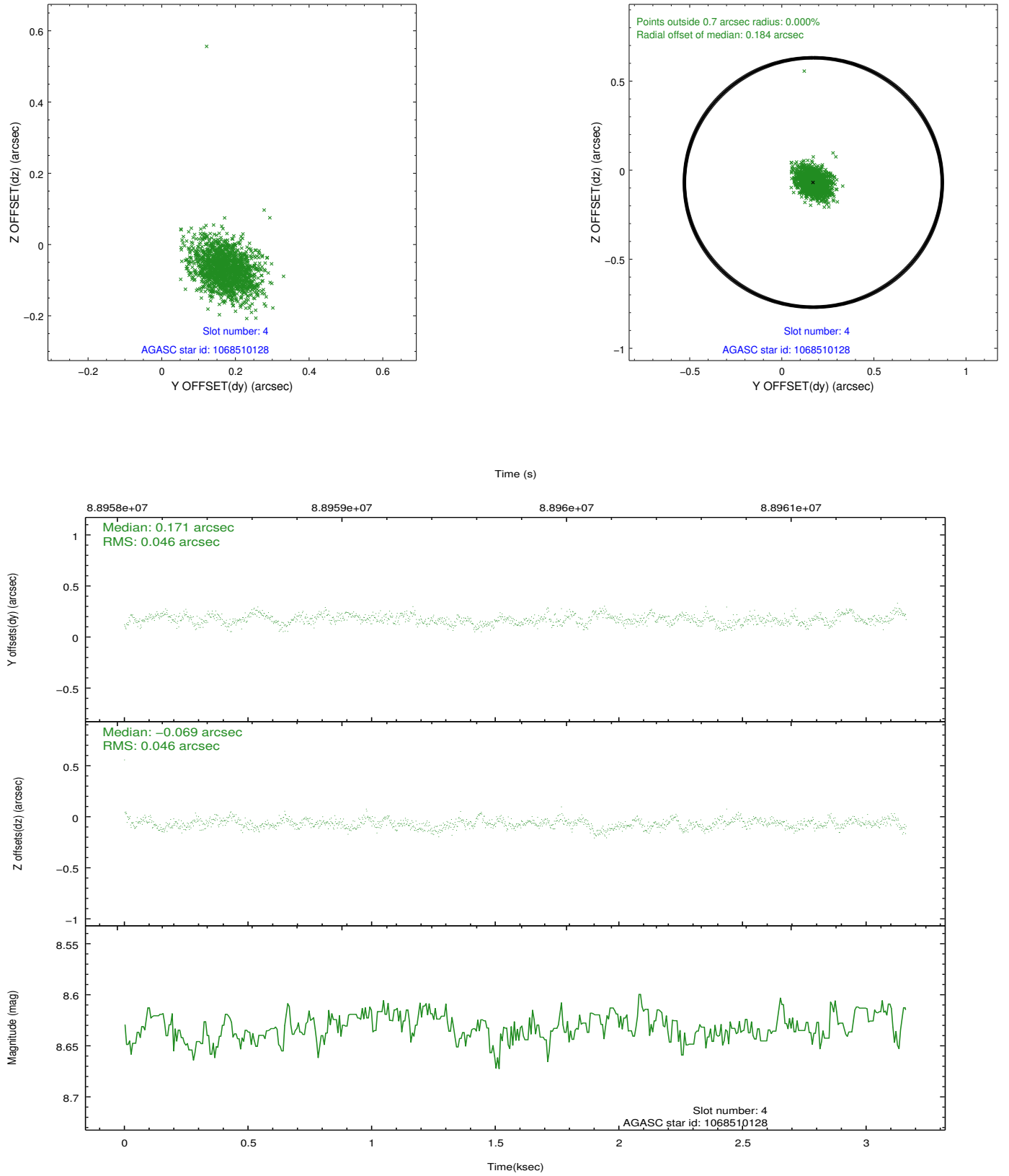
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.25 | 772 | -0.039 | -0.031 | 0.009 | 0.016 | 0.000000 | 0.000000 | 937.68 | -829.92 |
| 1 | FID | ACIS-I-4 | 7.18 | 772 | -0.027 | 0.064 | 0.009 | 0.015 | 0.000000 | 0.000000 | 2158.89 | 1068.97 |
| 2 | FID | ACIS-I-5 | 7.23 | 772 | -0.032 | 0.038 | 0.009 | 0.016 | 0.000000 | 0.000000 | -1807.69 | 1069.14 |
| 3 | GUIDE | 1068505536 | 6.61 | 1543 | -0.072 | -0.185 | 0.046 | 0.075 | 132.879030 | -46.541145 | -650.96 | 349.48 |
| 4 | GUIDE | 1068510128 | 8.63 | 1543 | 0.171 | -0.069 | 0.066 | 0.109 | 132.886718 | -46.609996 | -898.81 | 328.51 |
| 5 | GUIDE | 1068506560 | 8.91 | 1543 | -0.038 | 0.137 | 0.086 | 0.138 | 133.945710 | -46.867843 | -1821.01 | -2286.34 |
| 6 | GUIDE | 1068515384 | 8.76 | 1543 | 0.034 | 0.013 | 0.055 | 0.091 | 133.341712 | -46.035768 | 1174.61 | -791.23 |
| 7 | GUIDE | 1068506184 | 9.42 | 1541 | -0.098 | 0.108 | 0.080 | 0.127 | 133.354089 | -45.784106 | 2082.51 | -818.13 |

2.4 Star Slots

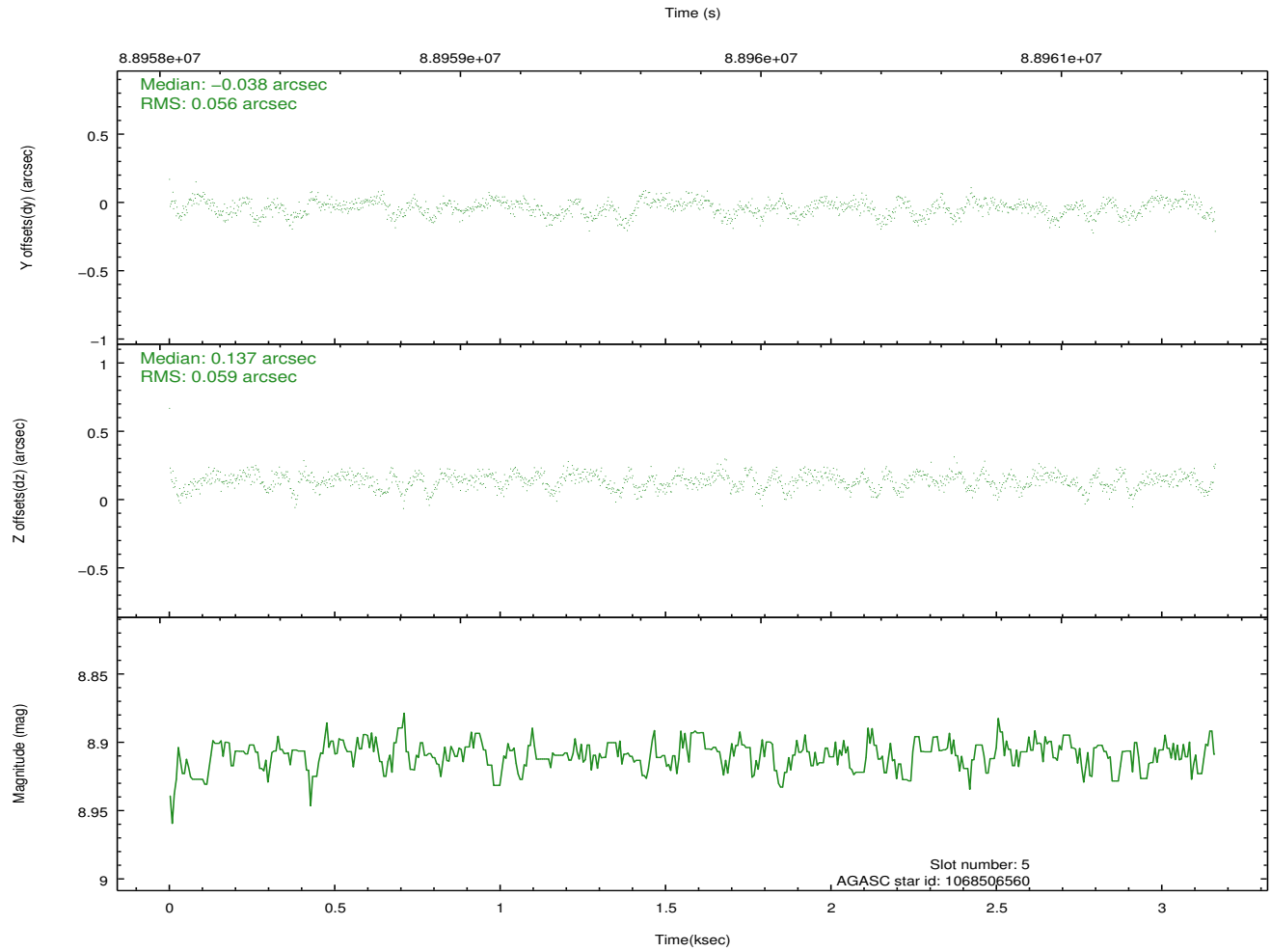
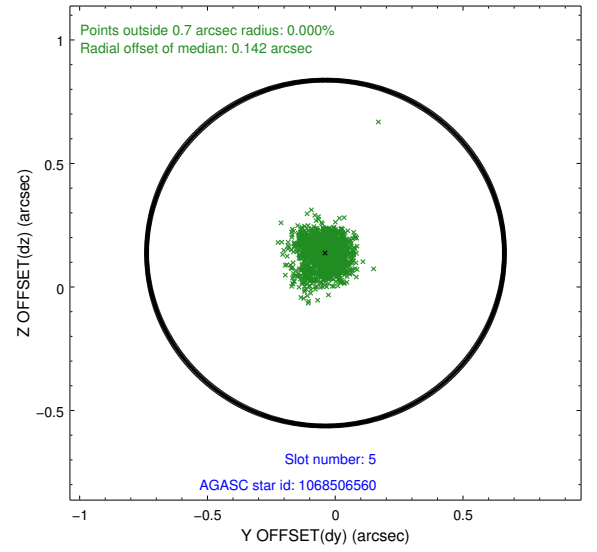
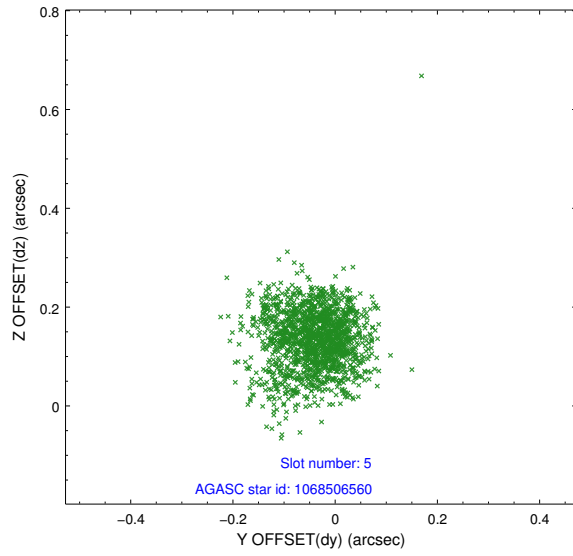
2.4.1 Slot 3



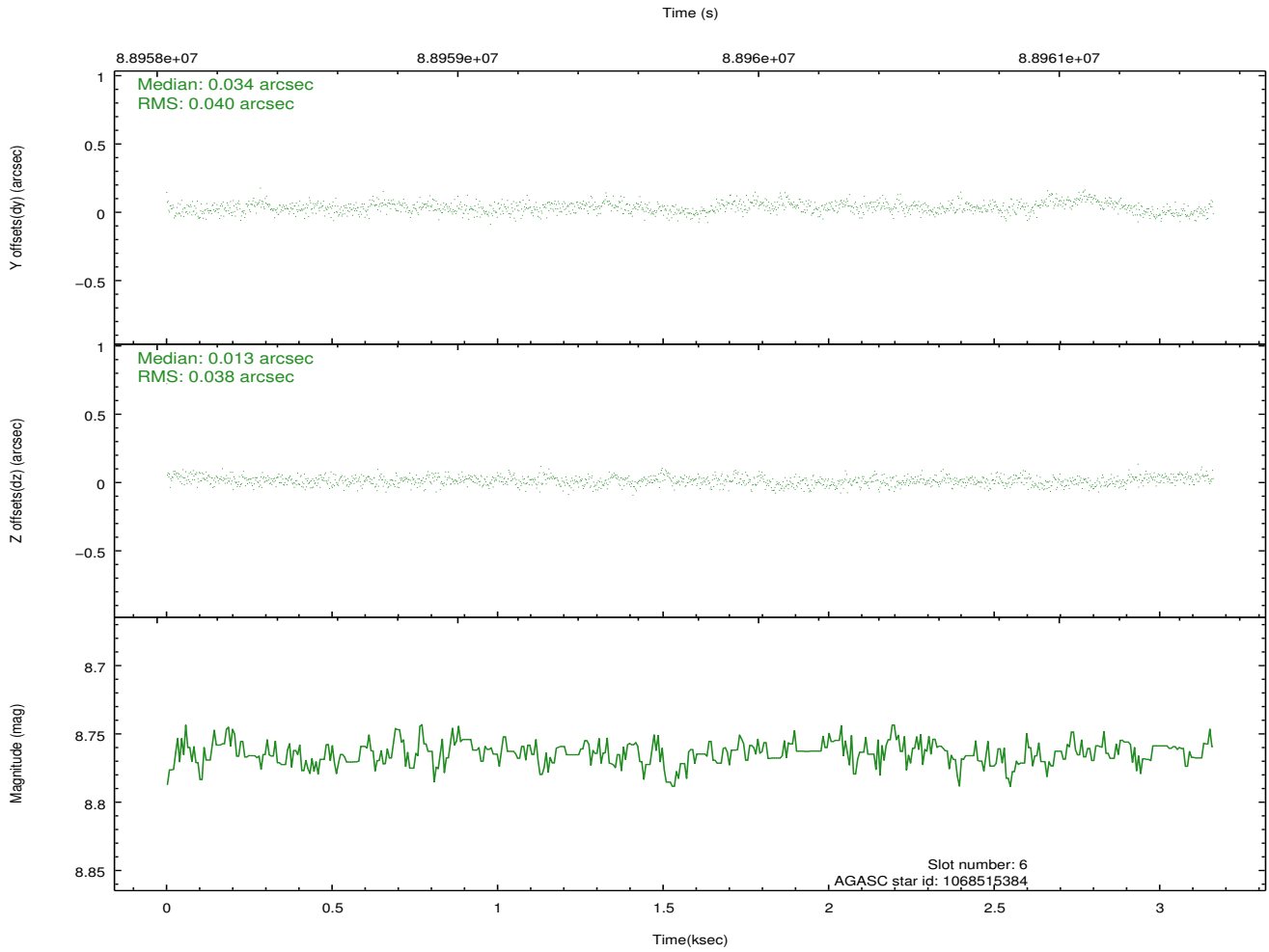
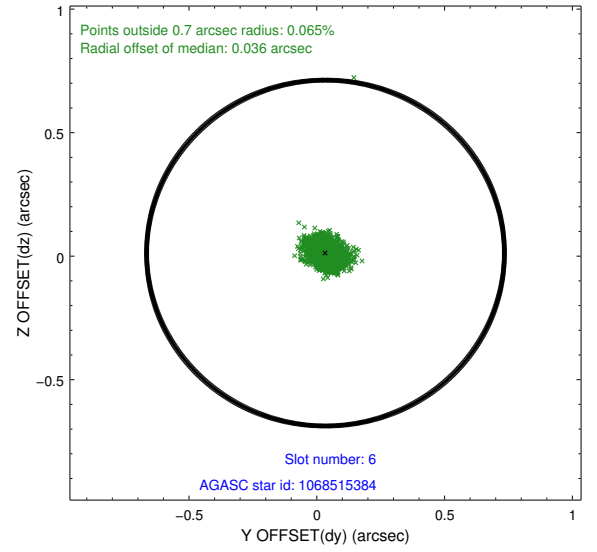
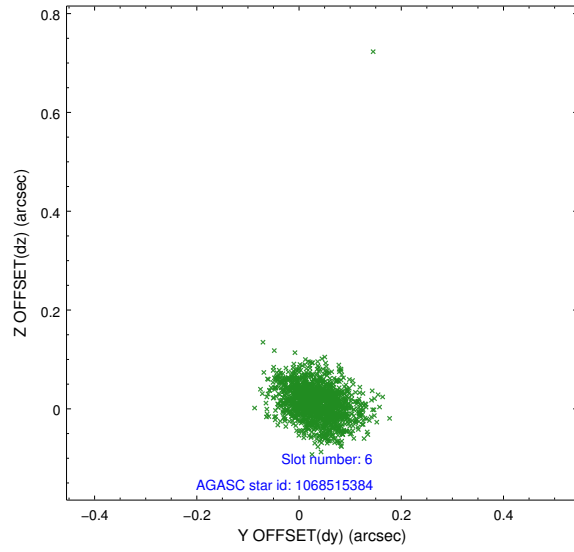
2.4.2 Slot 4



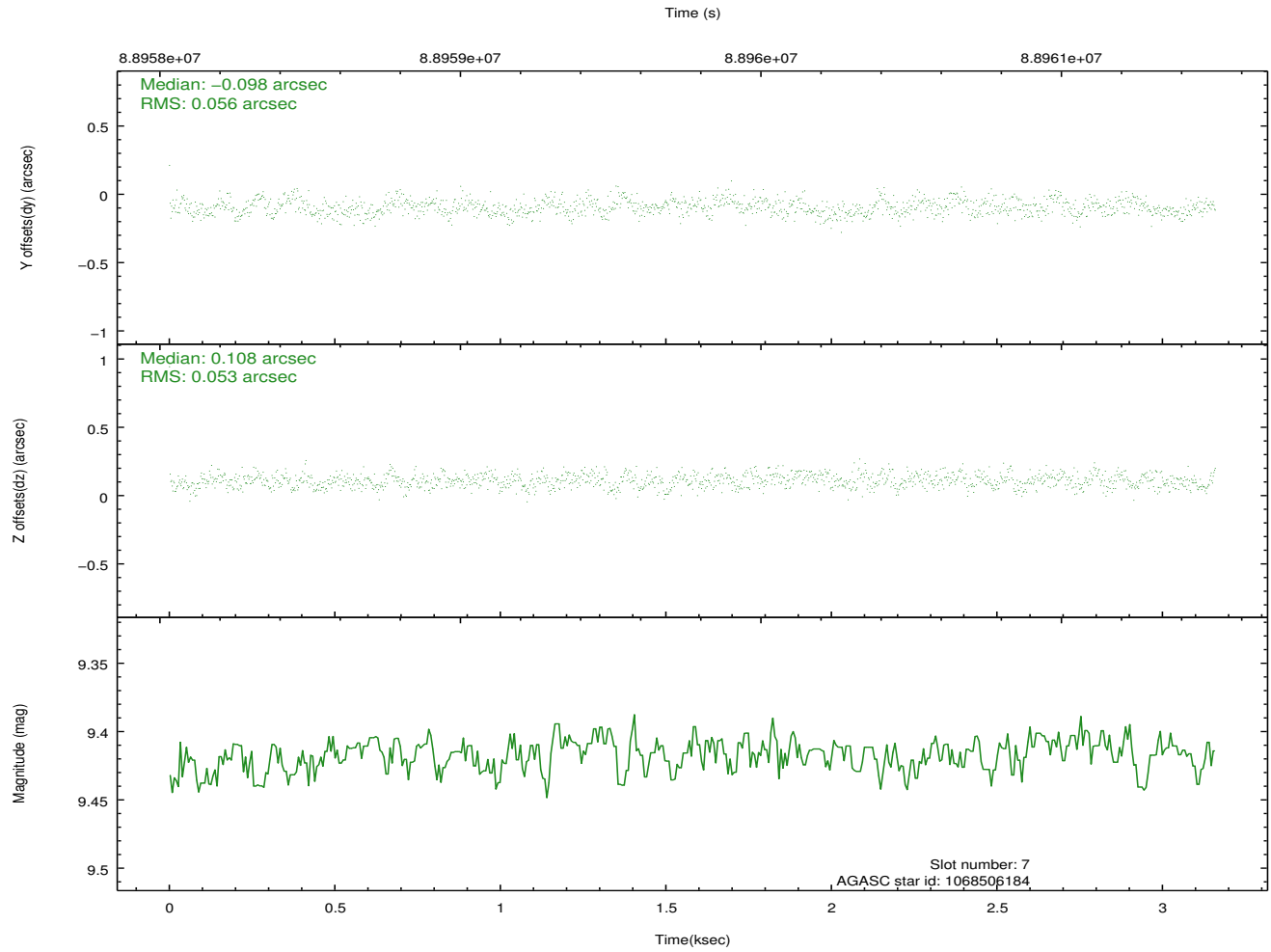
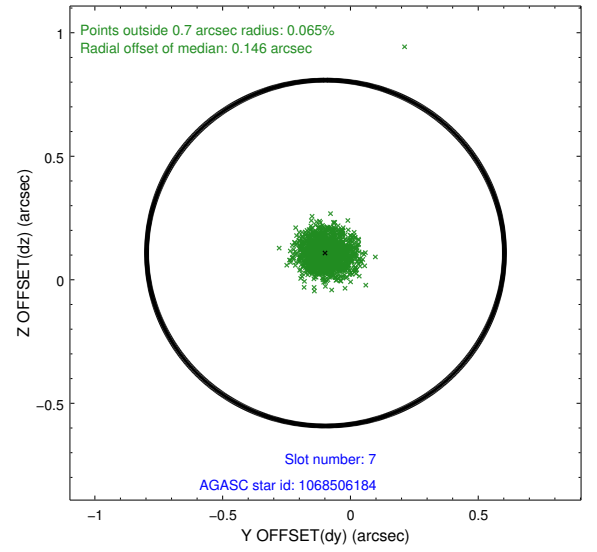
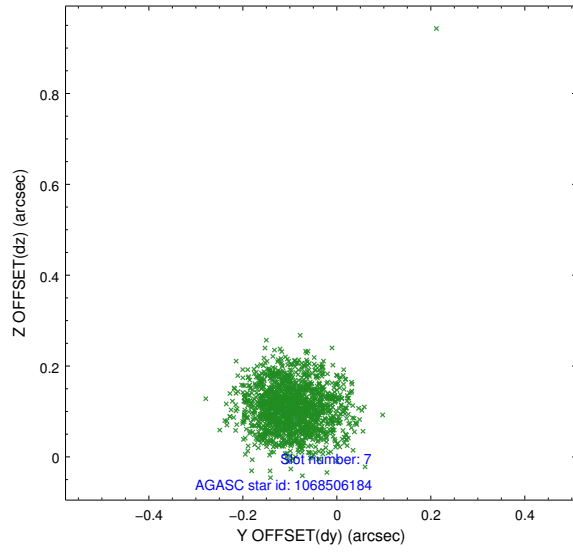
2.4.3 Slot 5



2.4.4 Slot 6

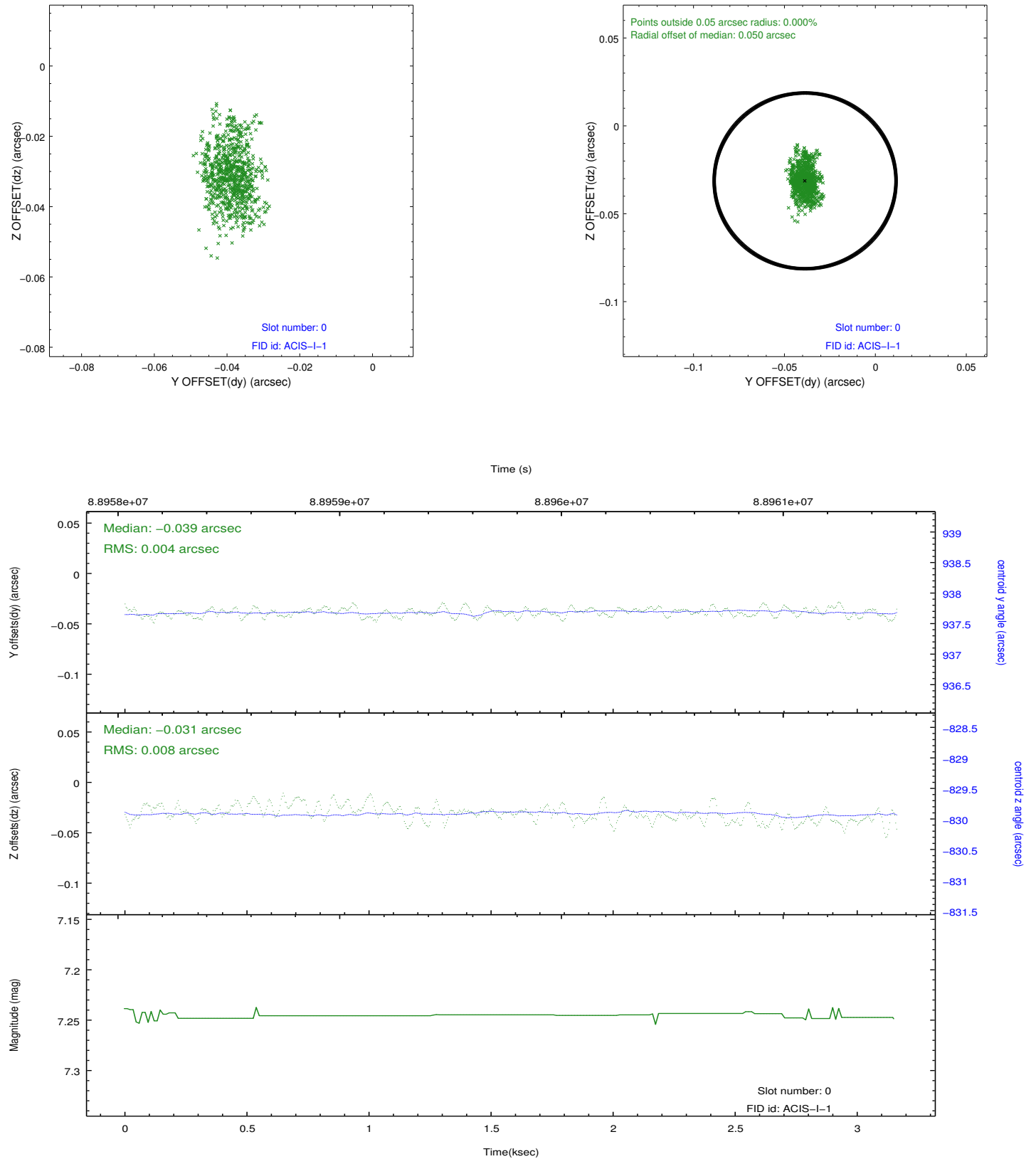


2.4.5 Slot 7

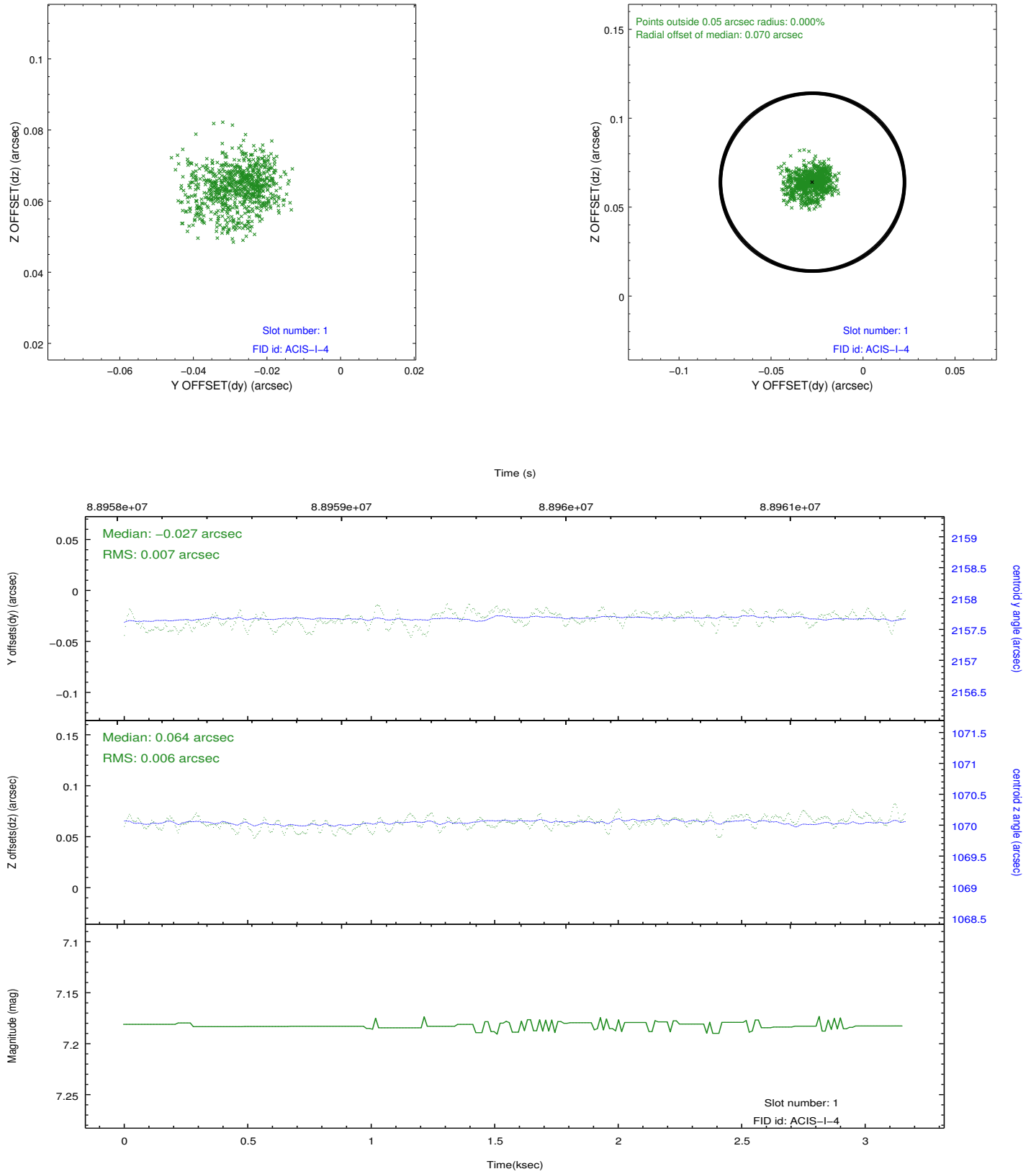


2.5 FID Slots

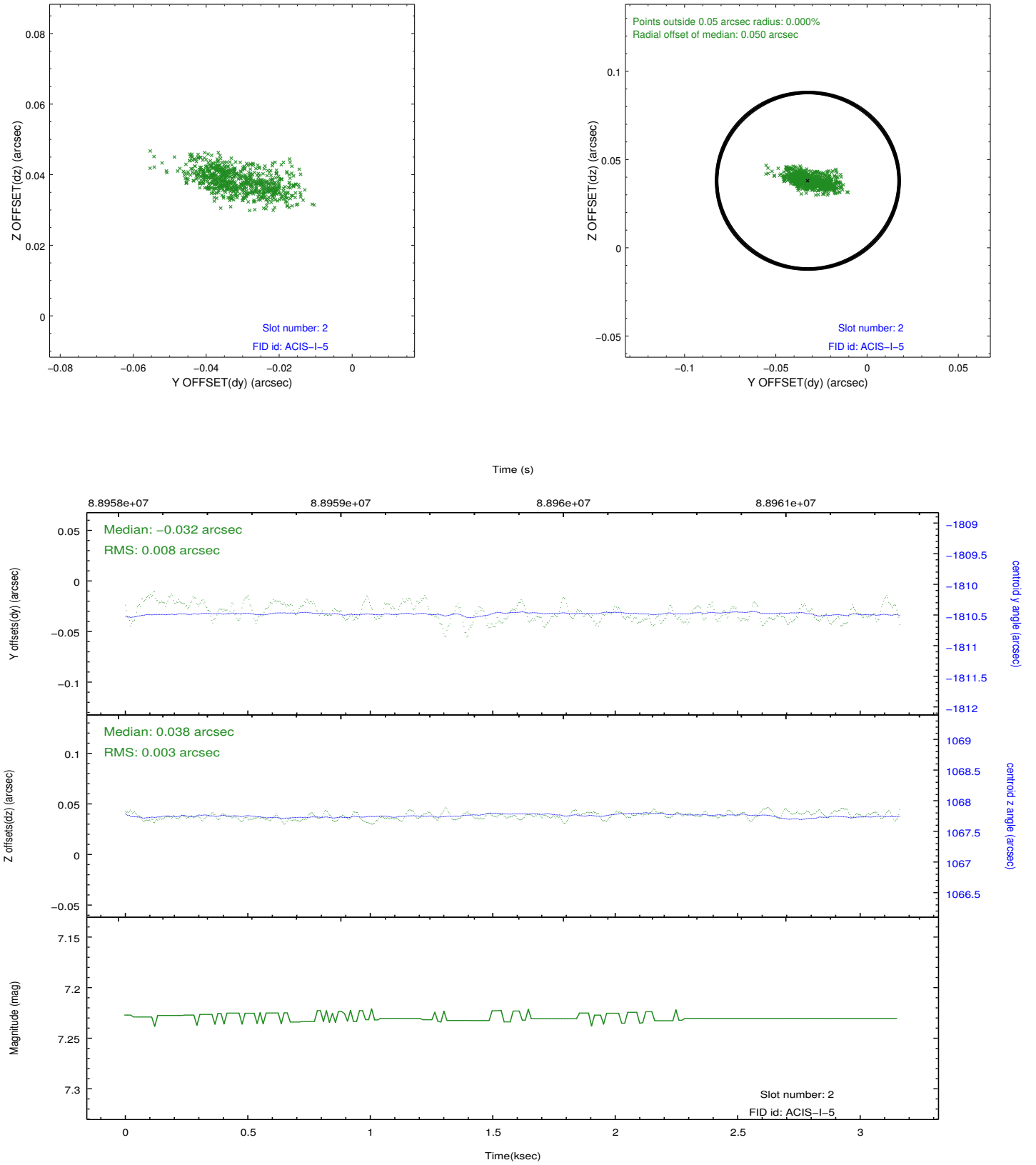
2.5.1 Slot 0



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) | 2012.09.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.036 |

A.2 Comments