

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2964 - L2 Version 3
Chandra X-Ray Center

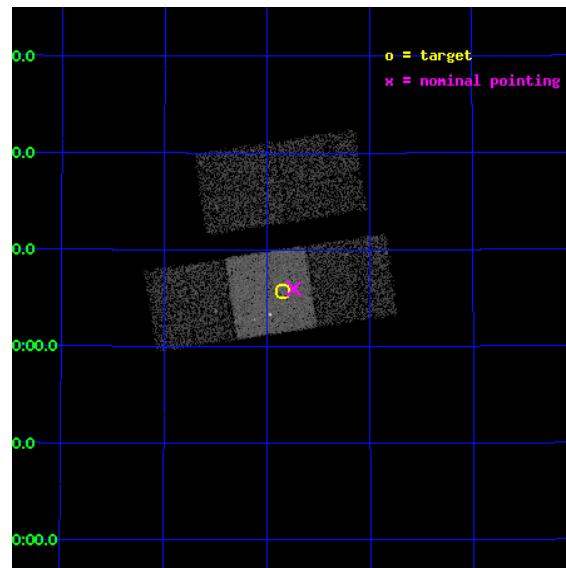
L2 Processing Date : Oct 7 2012

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1 Front

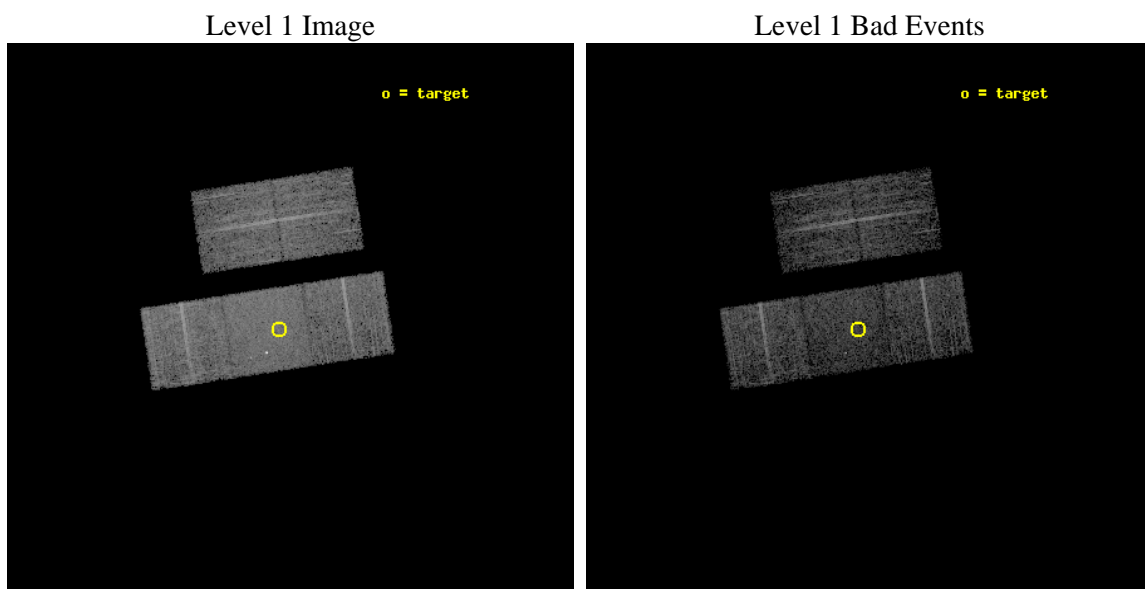
| | | |
|----------|---|---|
| seq_num | 700403 | Sequence number |
| obs_id | 2964 | Observation id |
| title | A SNAPSHOT SURVEY OF THE OPTICALLY SELECTED TYPE-2 QUASARS | Proposa |
| observer | PROF. S. DJORGOVSKI | Principal investigator |
| object | PSS 1605+4405 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 241.462917 | Observer's specified target RA [deg] |
| dec_targ | 44.094722 | Observer's specified target Dec [deg] |
| ra_nom | 241.43479705488 | Nominal RA [deg] |
| dec_nom | 44.099494019189 | Nominal Dec [deg] |
| roll_nom | 171.33637051597 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5183.1999900043 | Sum of GTIs [s] |
| livetime | 5115.4776663186 | Livetime [s] |
| ontime2 | 5183.1999900043 | Sum of GTIs [s] |
| ontime3 | 5183.1999900043 | Sum of GTIs [s] |
| ontime6 | 5183.1999900043 | Sum of GTIs [s] |
| ontime7 | 5183.1999900043 | Sum of GTIs [s] |
| ontime8 | 5183.1999900043 | Sum of GTIs [s] |
| l2events | 33555 | Number of level 2 events |



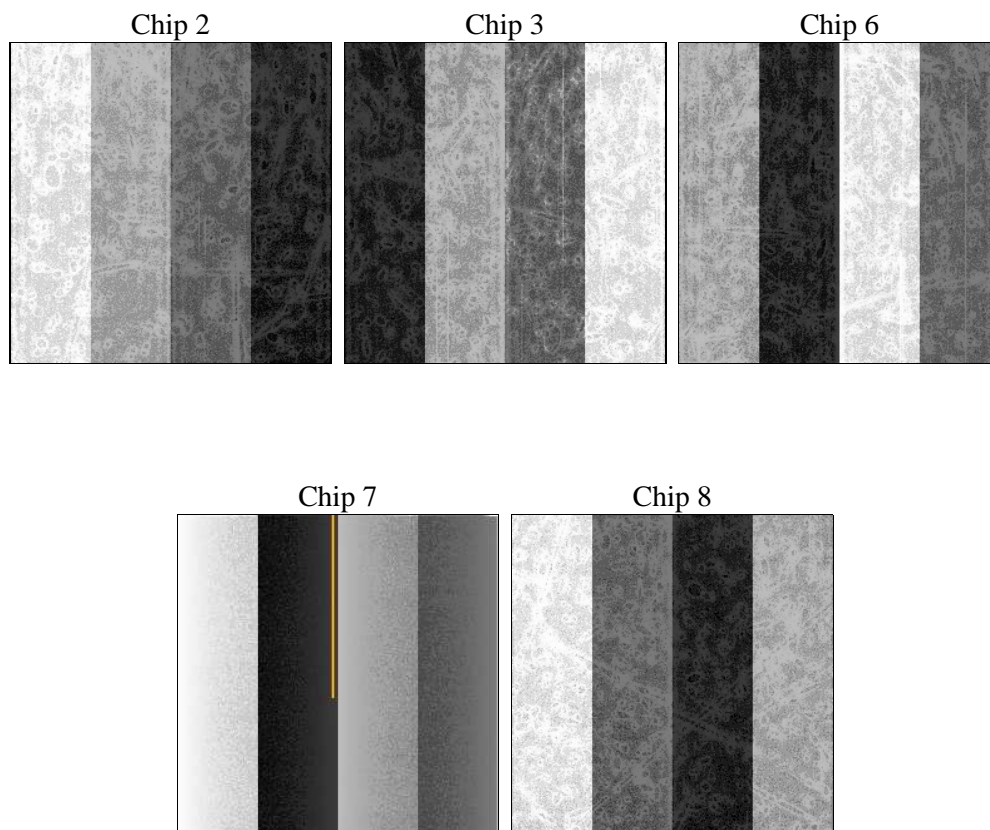
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 3 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 5183.1999900043 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime2 | 5183.1999900043 | Sum of GTIs [s] |
| date | 2012-10-07T11:27:35 | Date and time of file creation | ontime3 | 5183.1999900043 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 5183.1999900043 | Sum of GTIs [s] |
| | | | ontime7 | 5183.1999900043 | Sum of GTIs [s] |
| | | | ontime8 | 5183.1999900043 | Sum of GTIs [s] |
| | | | l1events | 201650 | Number of level 1 events |

2.1.4 Events

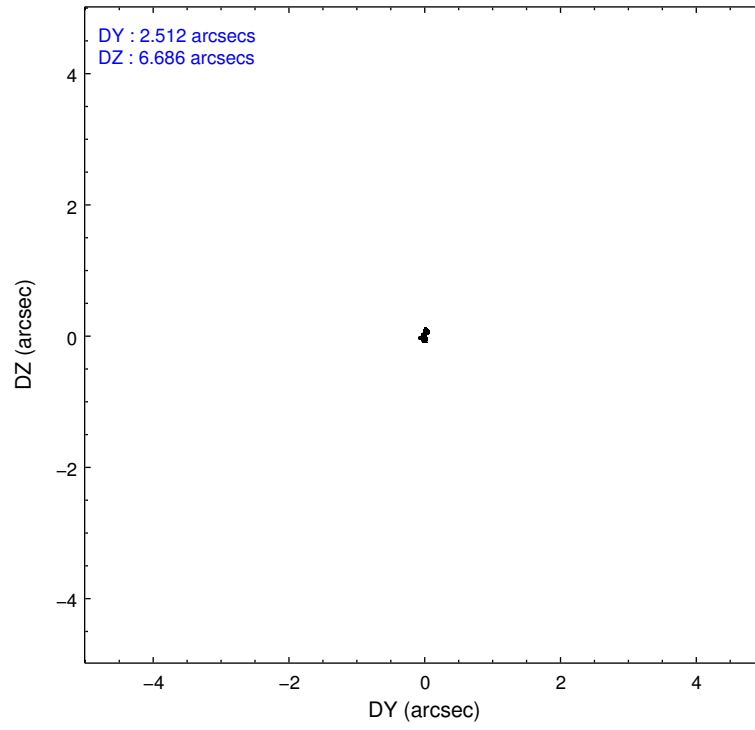
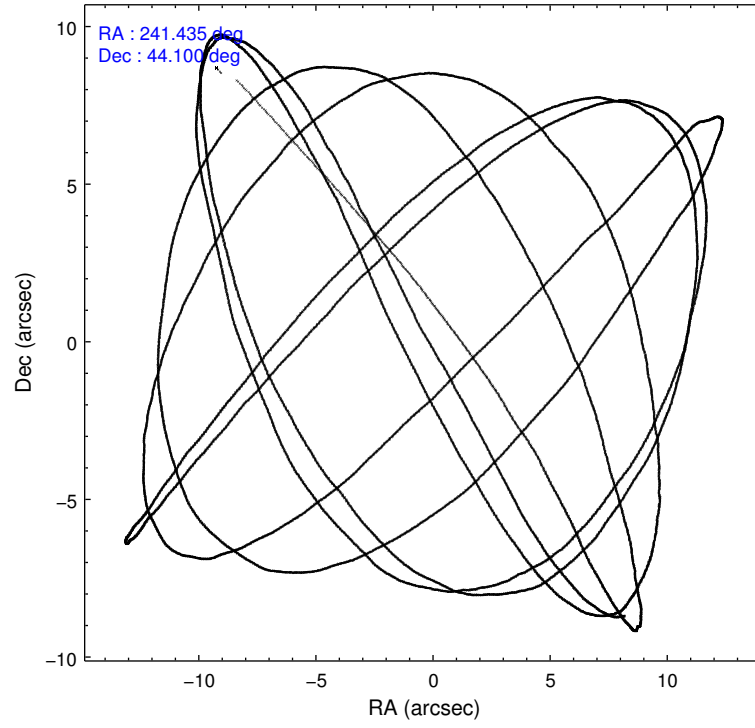
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 34657 | 35339 | 36904 | 47959 | 46791 |
| rejected events | 30791 | 31469 | 32956 | 27838 | 38338 |
| rejected % | 88% | 89% | 89% | 58% | 81% |

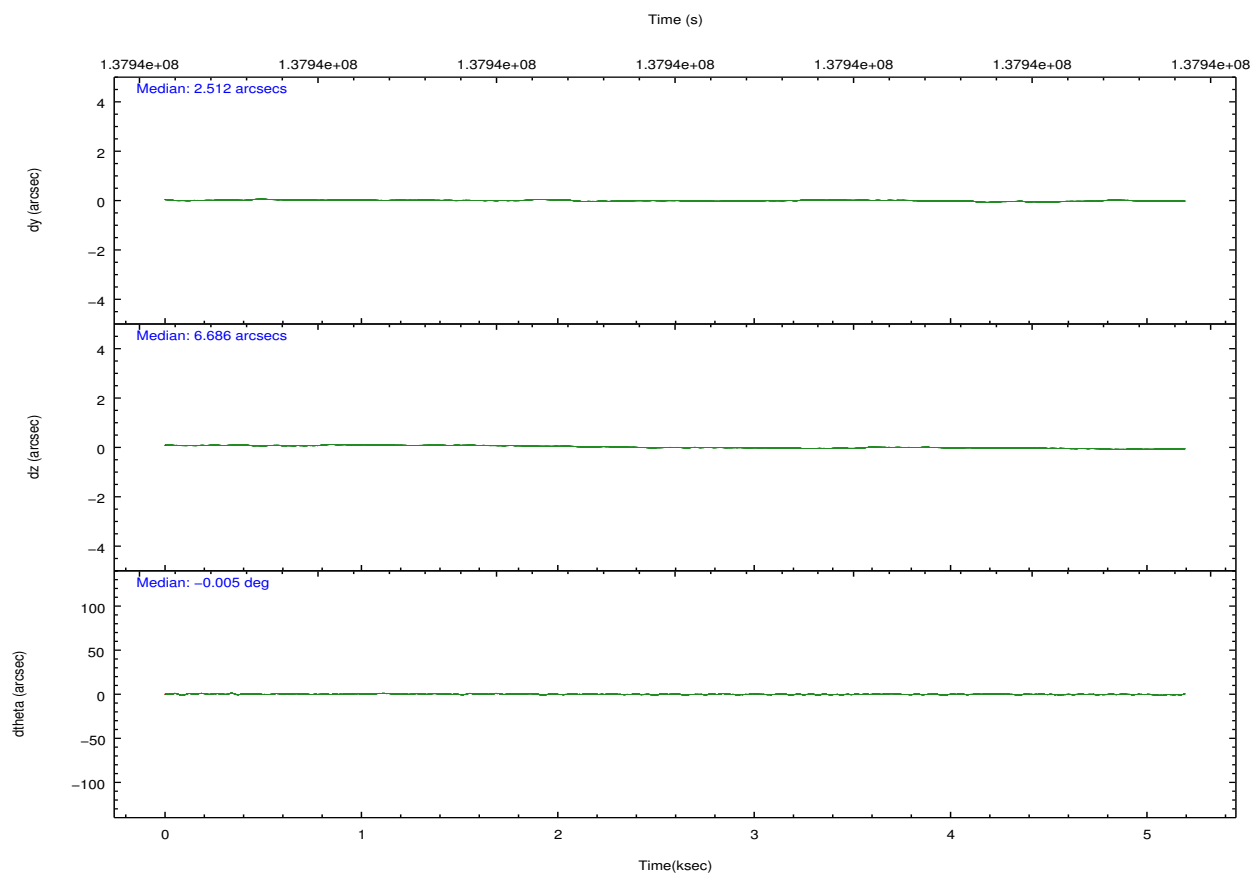
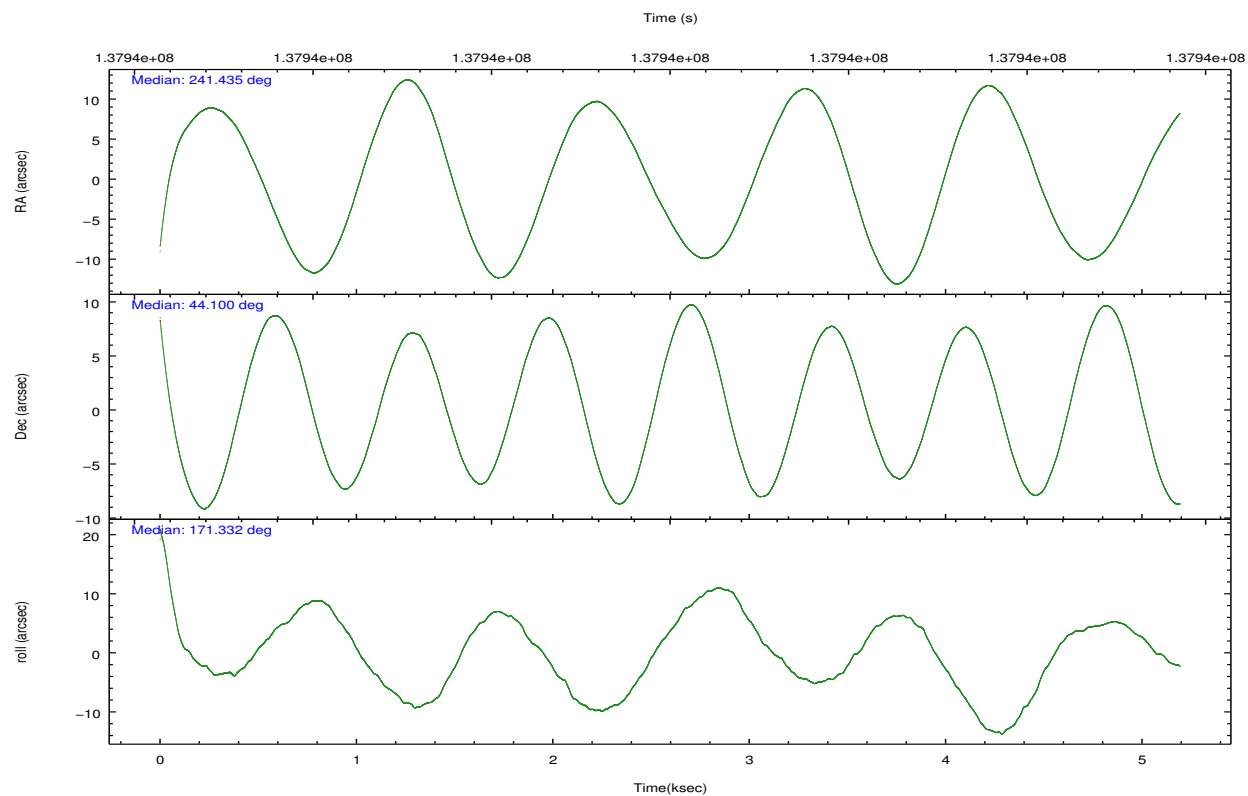
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 1683 | 1727 | 1632 | 2542 | 2813 |
| | 4% | 4% | 4% | 5% | 6% |
| grade 1 events | 17 | 13 | 21 | 102 | 18 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 891 | 784 | 821 | 4317 | 1903 |
| | 2% | 2% | 2% | 9% | 4% |
| grade 3 events | 423 | 387 | 430 | 1922 | 945 |
| | 1% | 1% | 1% | 4% | 2% |
| grade 4 events | 390 | 373 | 424 | 1884 | 891 |
| | 1% | 1% | 1% | 3% | 1% |
| grade 5 events | 1260 | 1378 | 1531 | 4461 | 1956 |
| | 3% | 3% | 4% | 9% | 4% |
| grade 6 events | 666 | 768 | 837 | 10362 | 2217 |
| | 1% | 2% | 2% | 21% | 4% |
| grade 7 events | 29327 | 29909 | 31208 | 22369 | 36048 |
| | 84% | 84% | 84% | 46% | 77% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-23678 | ACIS-23678 | 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 | 241.469935 | 241.4347970548785 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 44.109789 | 44.09949401918882 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 171.155267 | 171.3363705159724 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 137936593.184000 | 137935468.07316 | | | |
| Observation start date | 2002-05-16T11:42:09 | 2002-05-16T11:24:28 | | | |
| [s] Observation end time (MET) | 137941593.184000 | 137942500.08595 | | | |
| Observation end date | 2002-05-16T13:05:29 | 2002-05-16T13:21:40 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



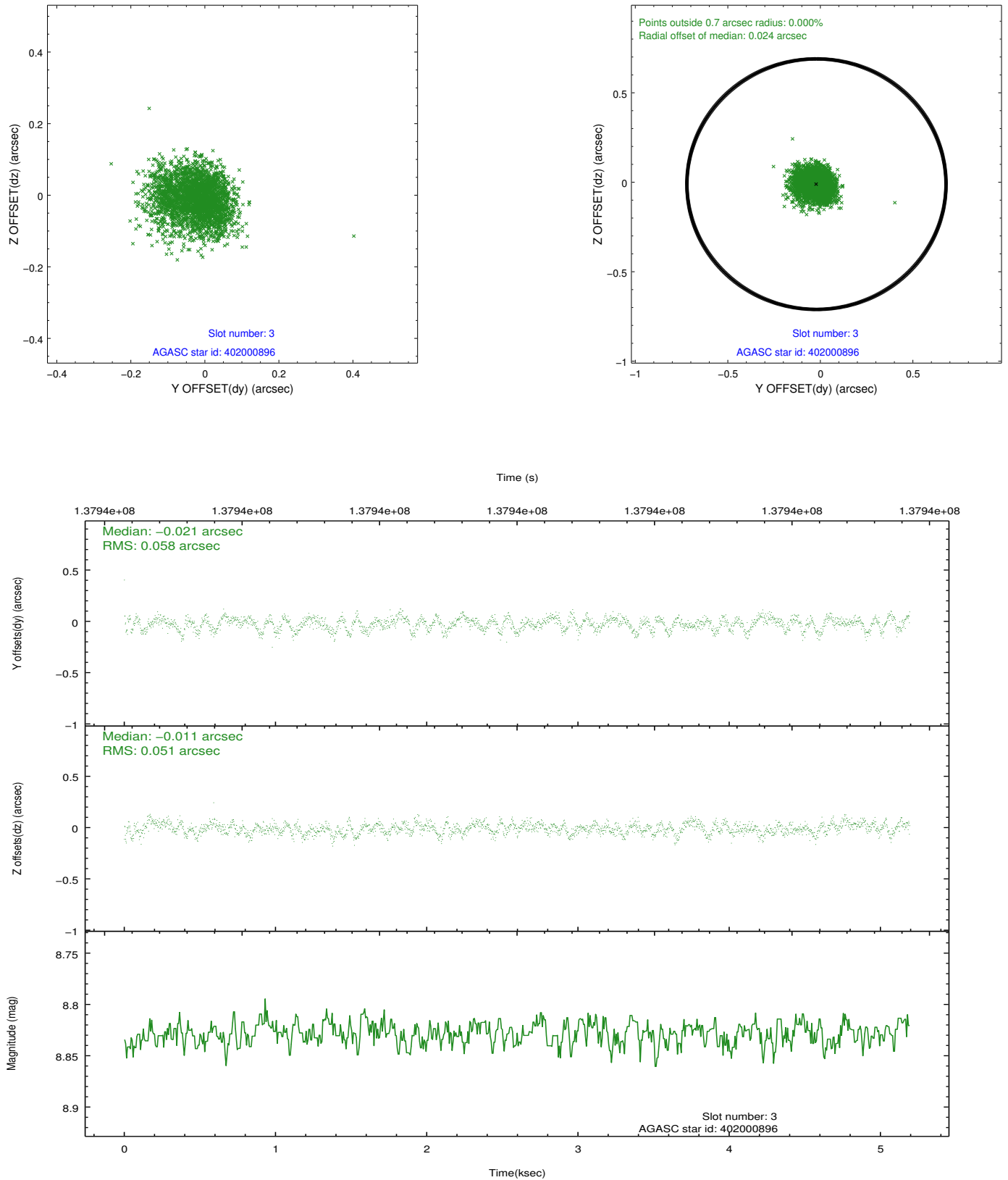


Slot Statistics

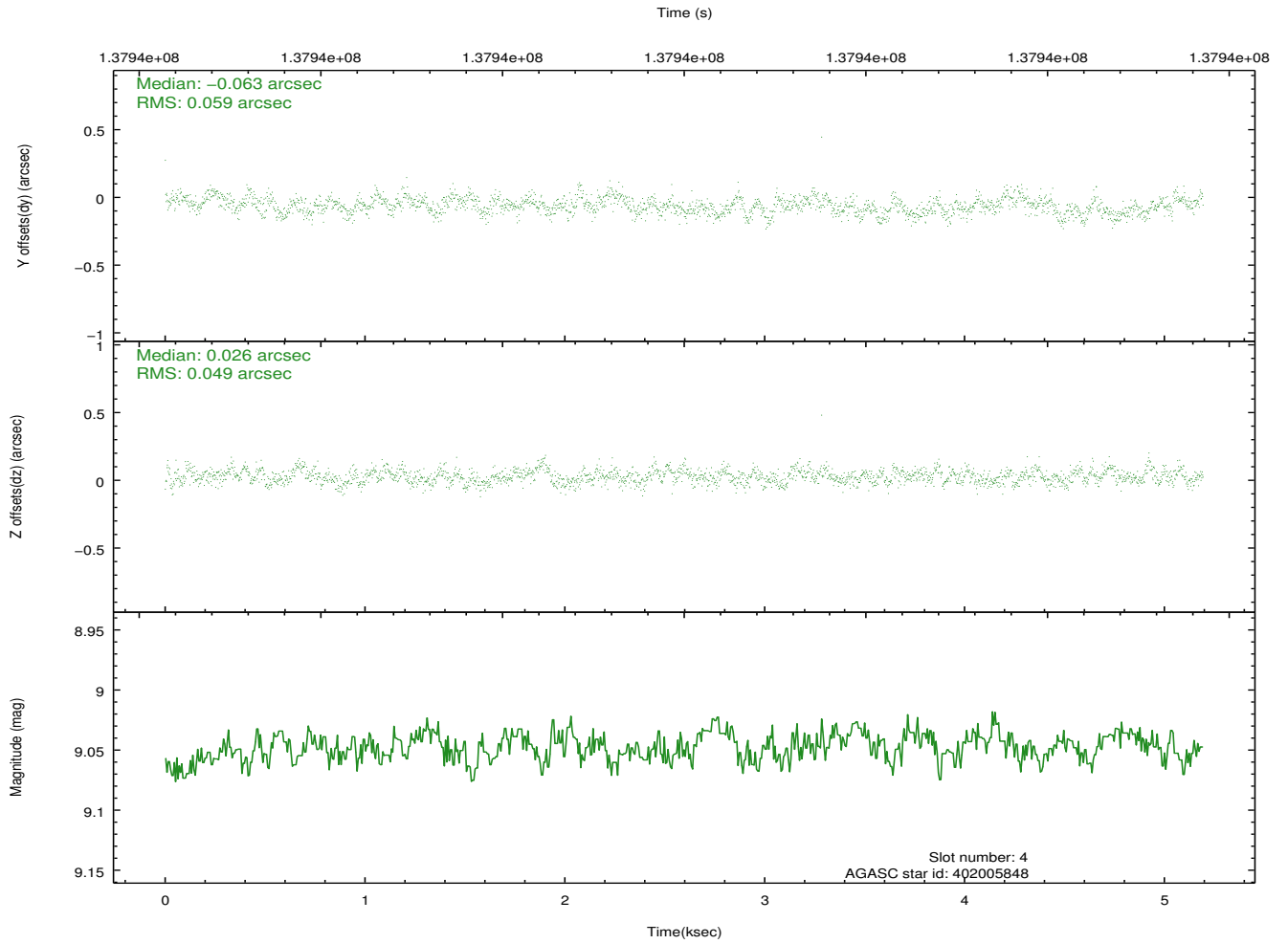
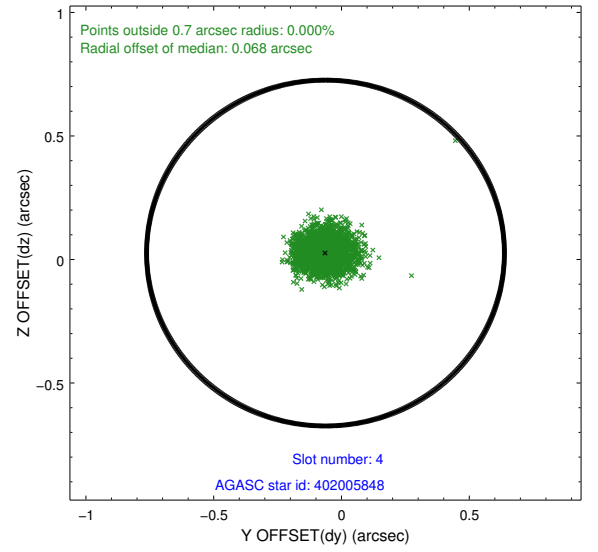
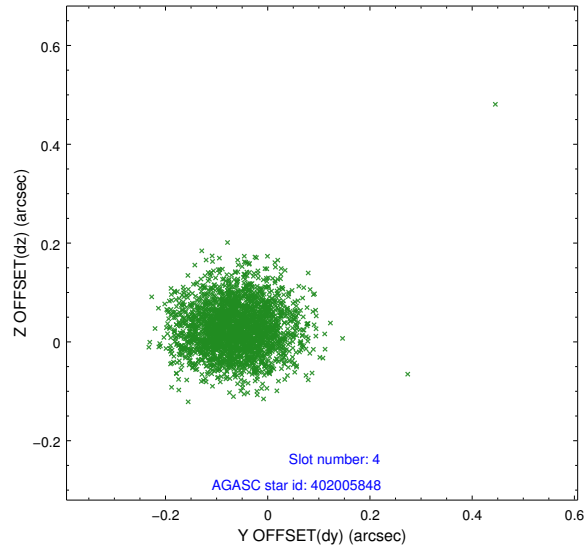
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.12 | 1267 | -0.028 | 0.011 | 0.008 | 0.012 | 0.000000 | 0.000000 | -755.15 | -1727.81 |
| 1 | FID | ACIS-S-4 | 7.20 | 1266 | -0.035 | 0.011 | 0.006 | 0.011 | 0.000000 | 0.000000 | 2157.58 | 179.50 |
| 2 | FID | ACIS-S-5 | 7.24 | 1266 | 0.032 | -0.012 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1806.45 | 174.44 |
| 3 | GUIDE | 402000896 | 8.83 | 2532 | -0.021 | -0.011 | 0.083 | 0.132 | 241.290106 | 43.612704 | 188.05 | 1839.88 |
| 4 | GUIDE | 402005848 | 9.05 | 2532 | -0.063 | 0.026 | 0.080 | 0.133 | 240.541350 | 43.894877 | 2263.72 | 1122.70 |
| 5 | GUIDE | 401999232 | 9.01 | 2534 | 0.025 | -0.052 | 0.097 | 0.164 | 240.791288 | 44.752735 | 2072.69 | -2026.94 |
| 6 | GUIDE | 402003648 | 9.44 | 2531 | 0.024 | 0.094 | 0.094 | 0.150 | 241.967706 | 44.138441 | -1253.16 | -304.36 |
| 7 | GUIDE | 401998128 | 9.60 | 2532 | 0.046 | -0.057 | 0.115 | 0.190 | 240.843501 | 44.839280 | 1984.91 | -2355.26 |

2.4 Star Slots

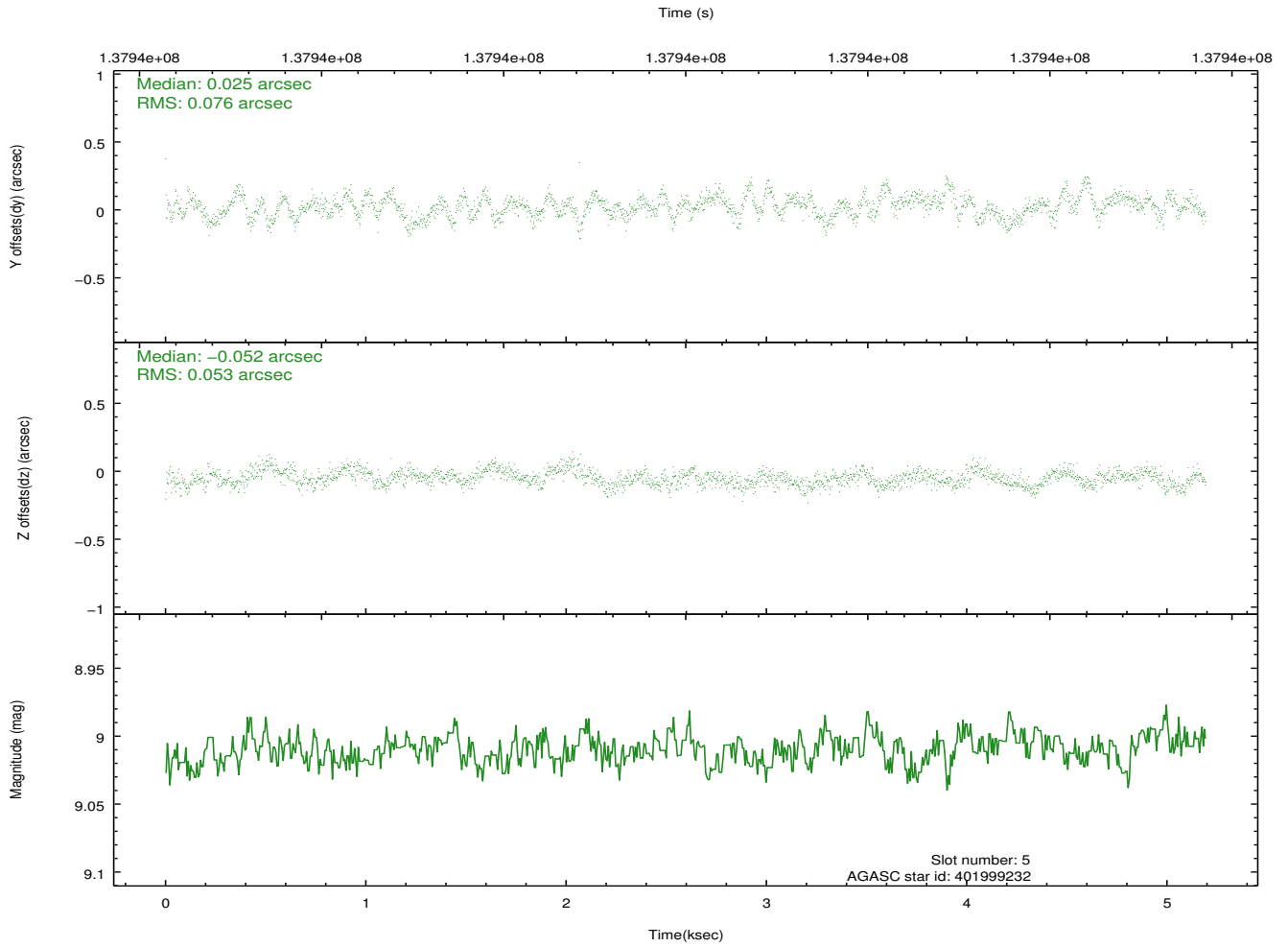
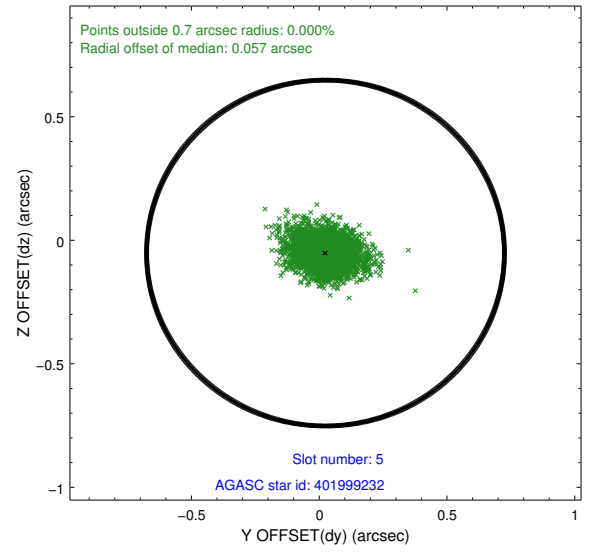
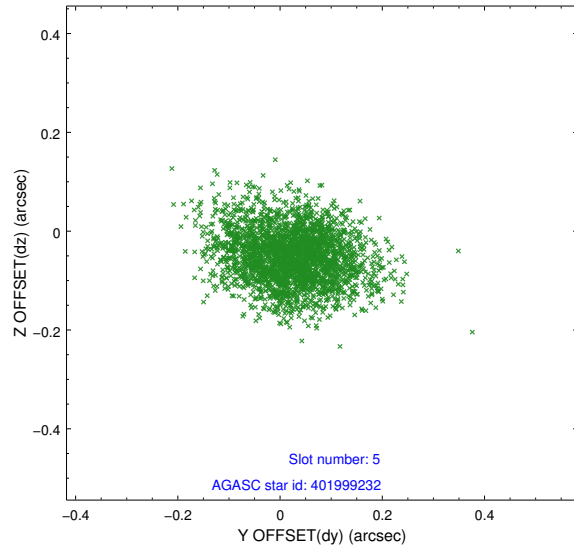
2.4.1 Slot 3



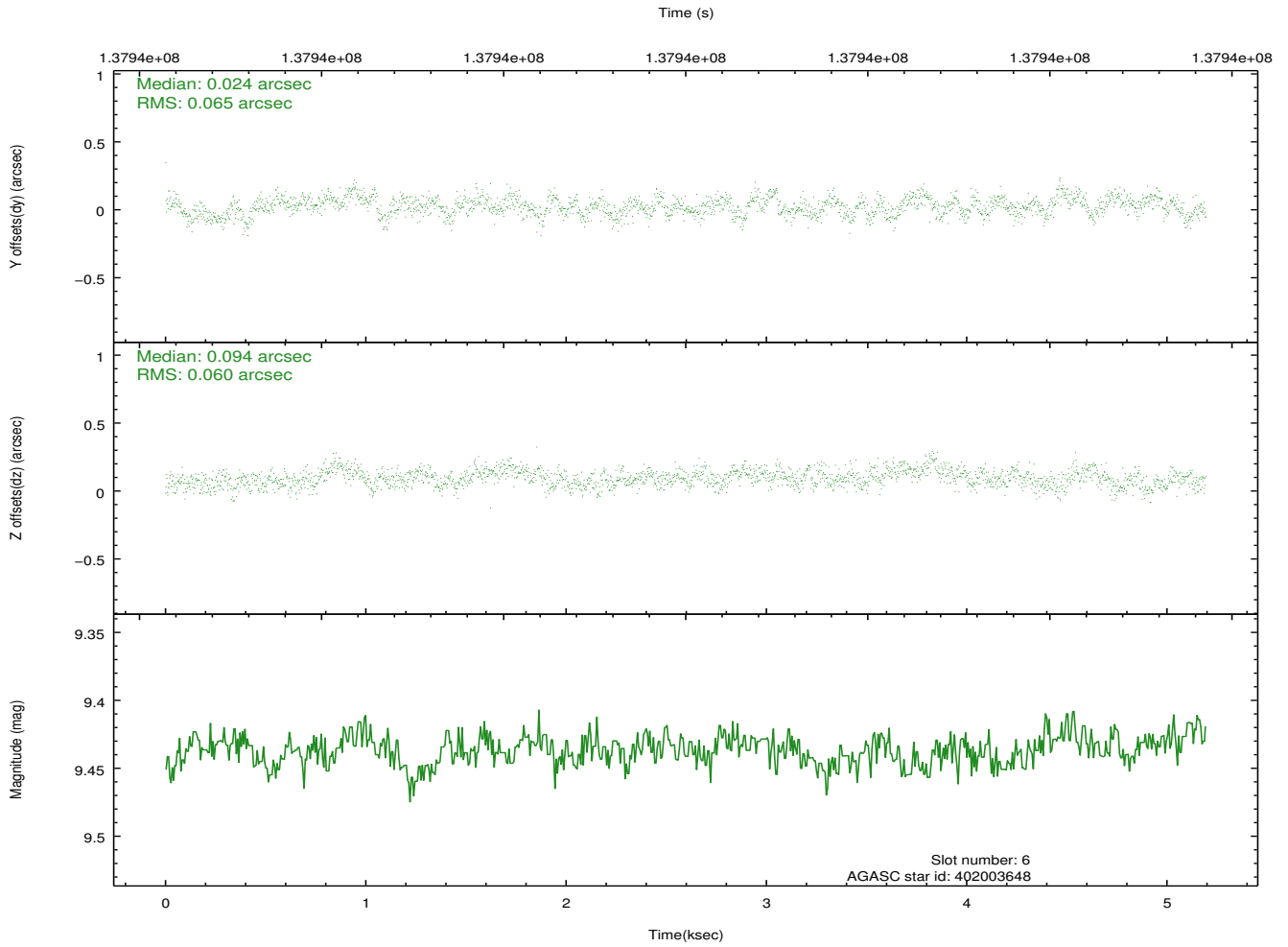
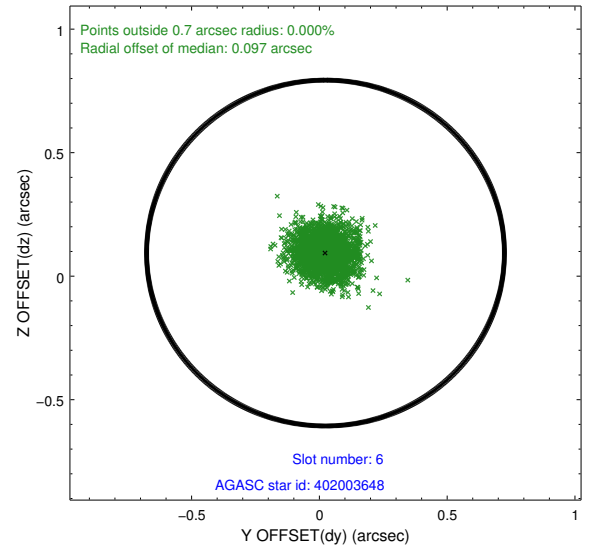
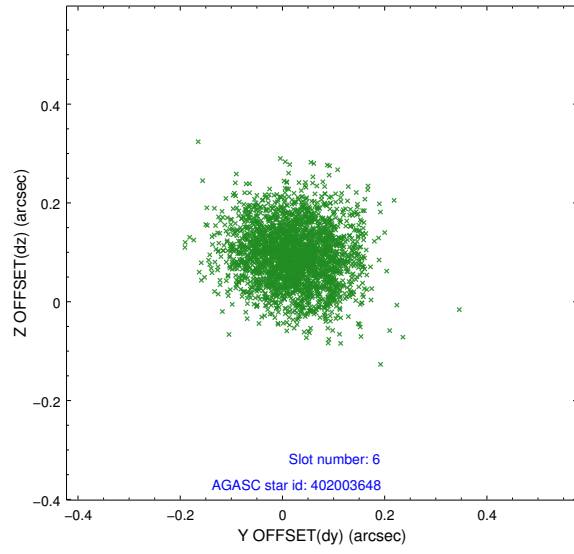
2.4.2 Slot 4



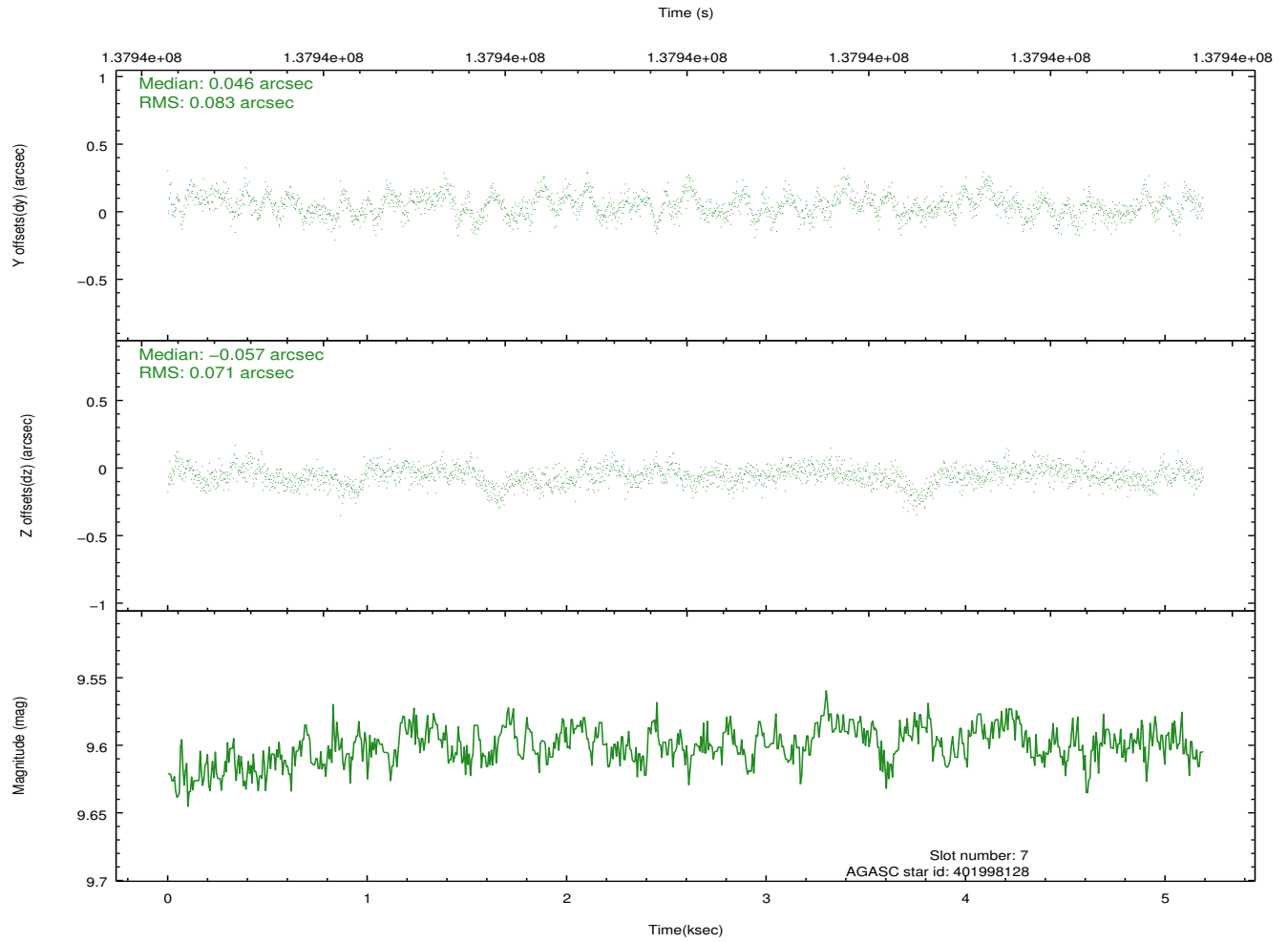
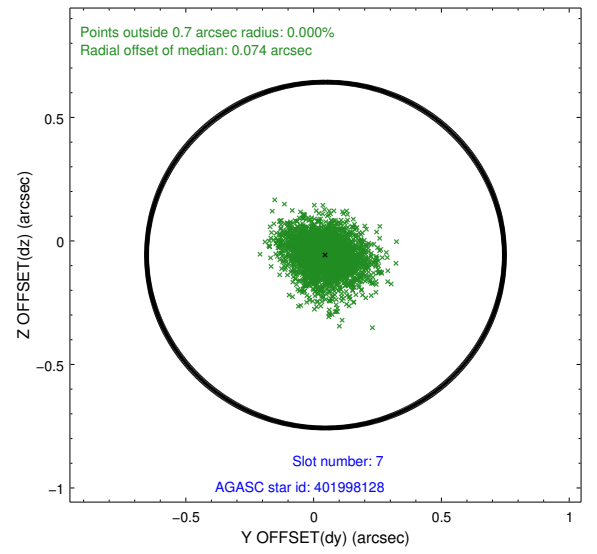
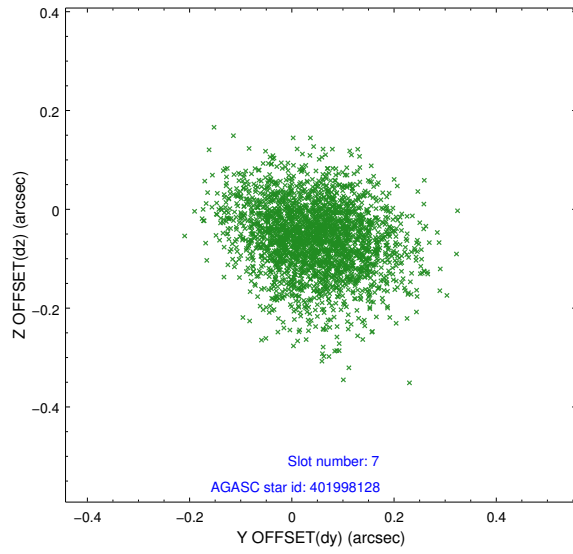
2.4.3 Slot 5



2.4.4 Slot 6

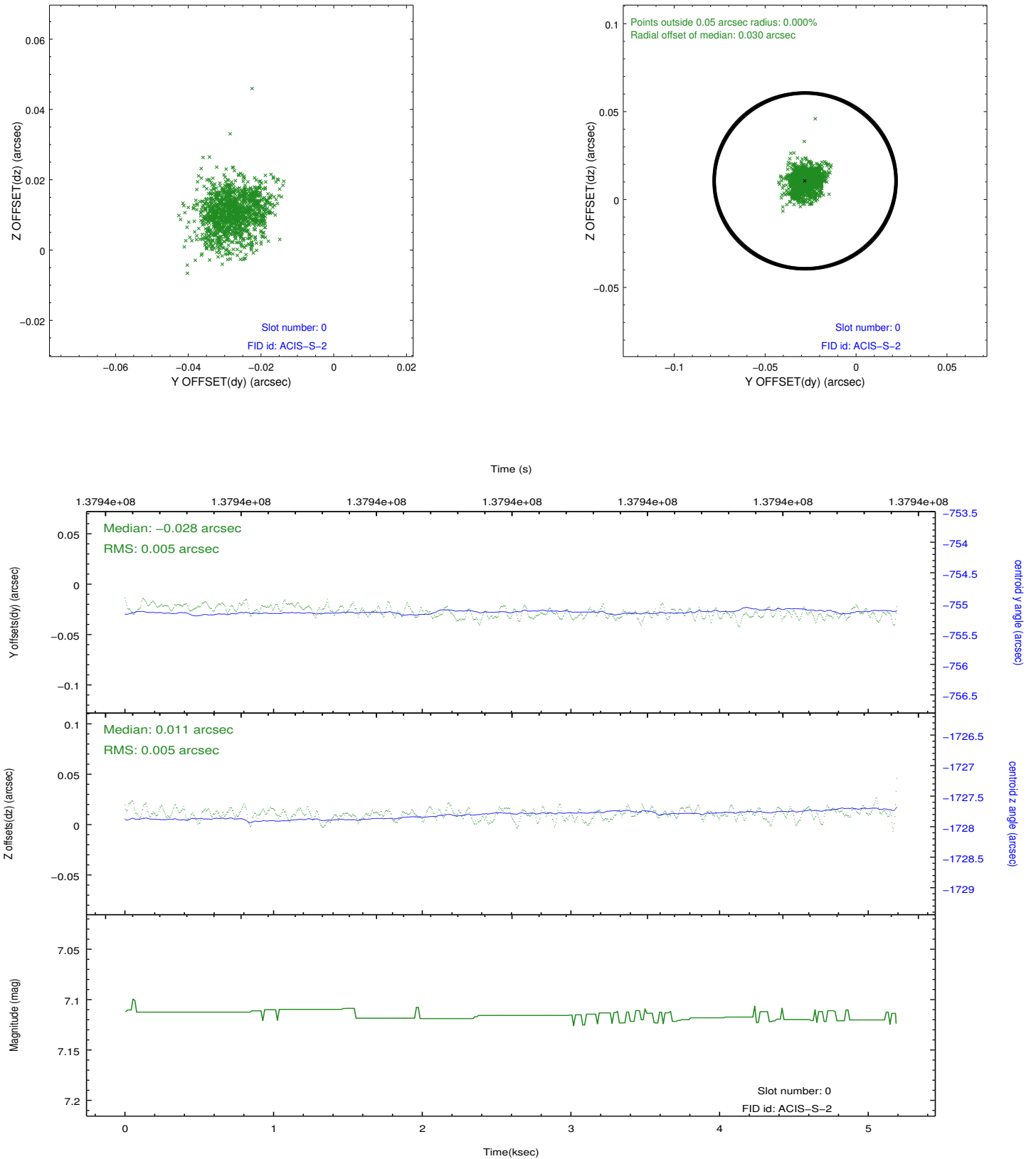


2.4.5 Slot 7

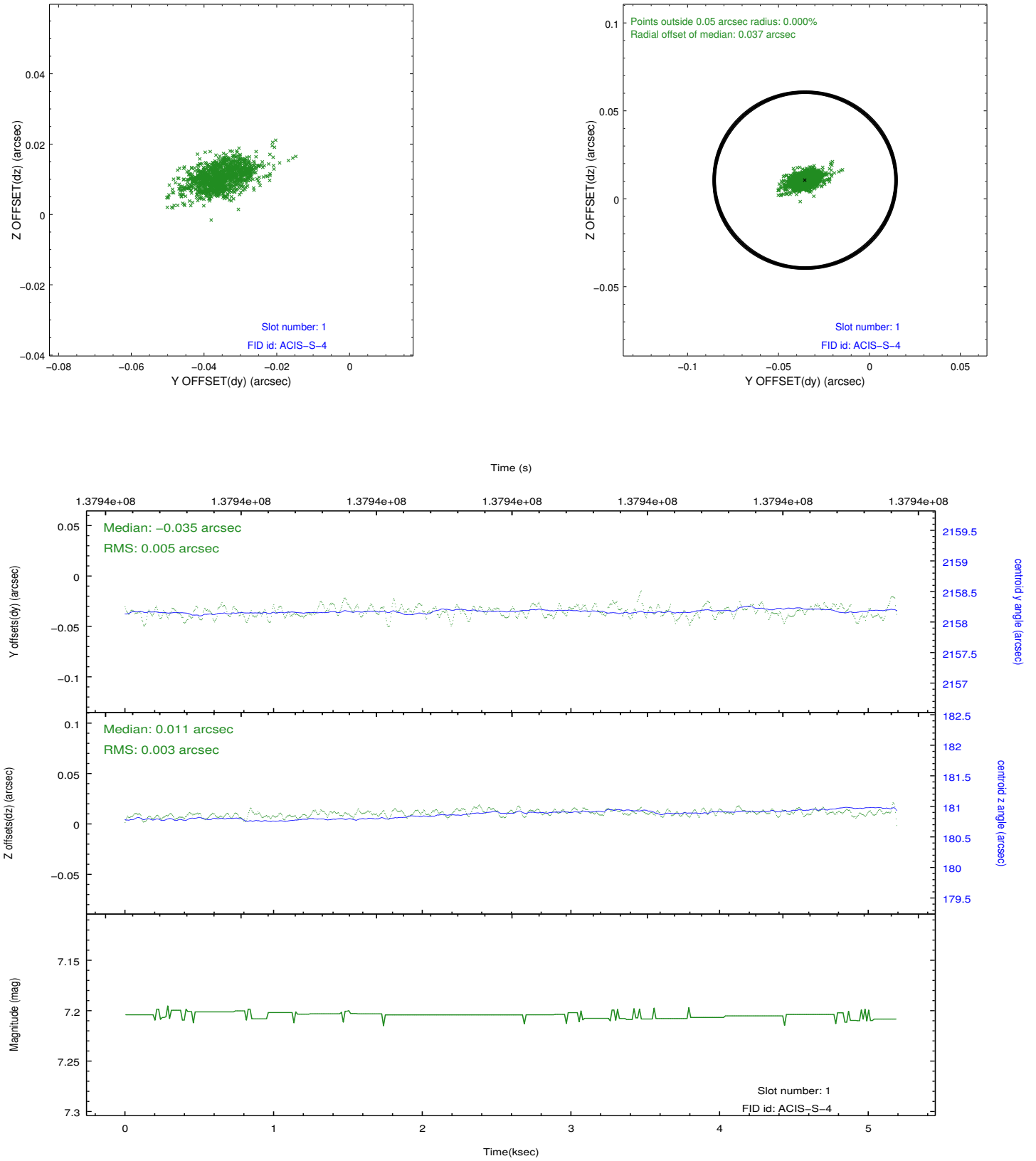


2.5 FID Slots

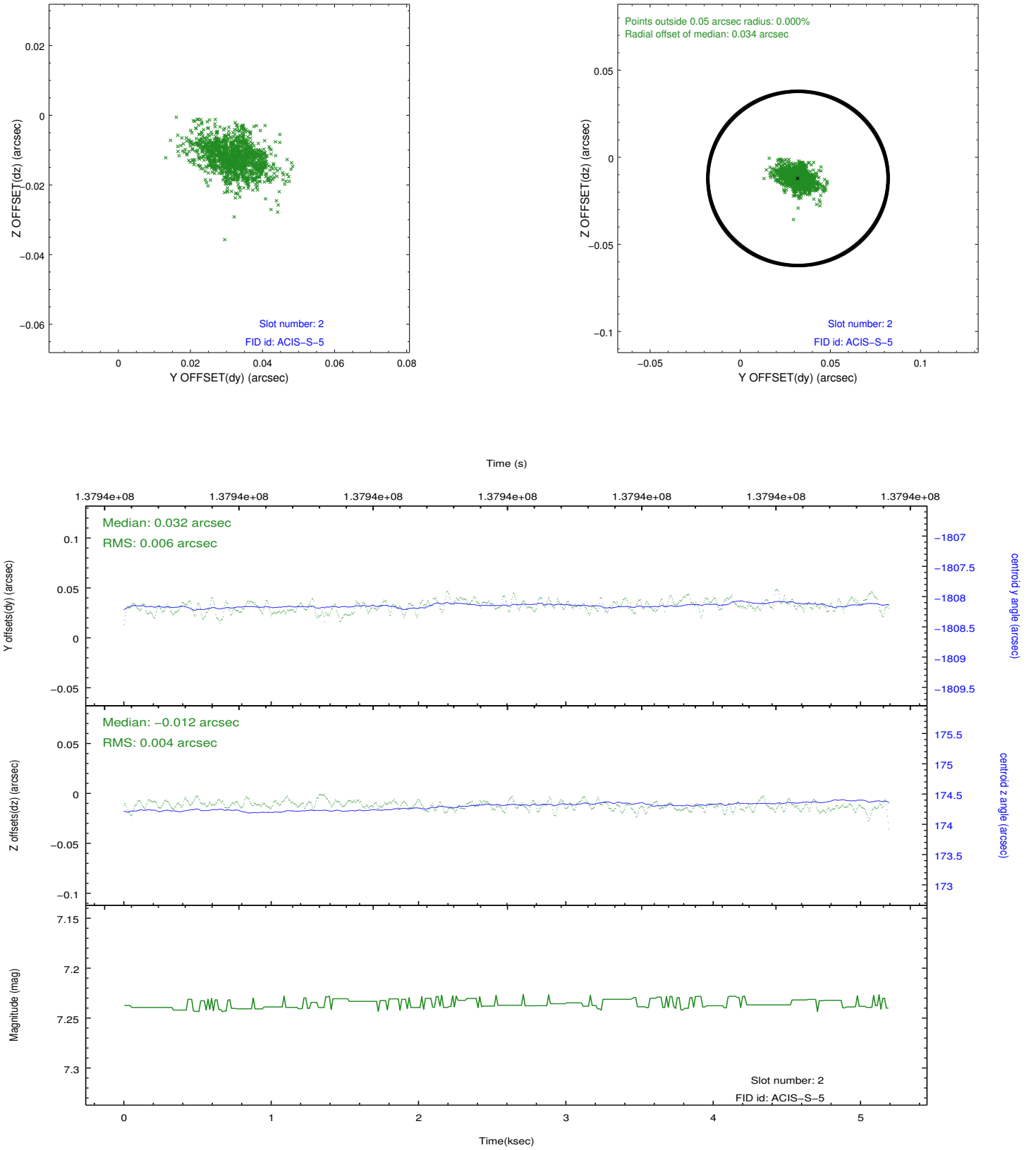
2.5.1 Slot 0



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) | 2012.10.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.183 |

A.2 Comments

Joint proposal with HST.