

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6910 - L2 Version 002
Chandra X-Ray Center

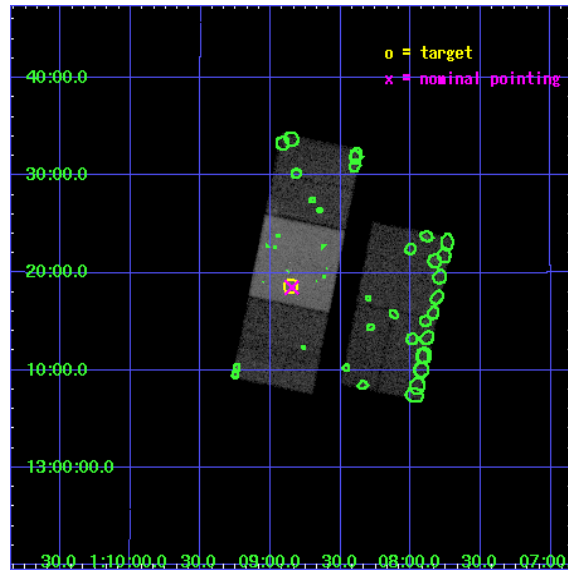
L2 Processing Date : Apr 4 2006

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| 3 | Point Sources | 17 |
| A | Summary | 18 |
| A.1 | Status | 18 |
| A.2 | Comments | 18 |

1 Front

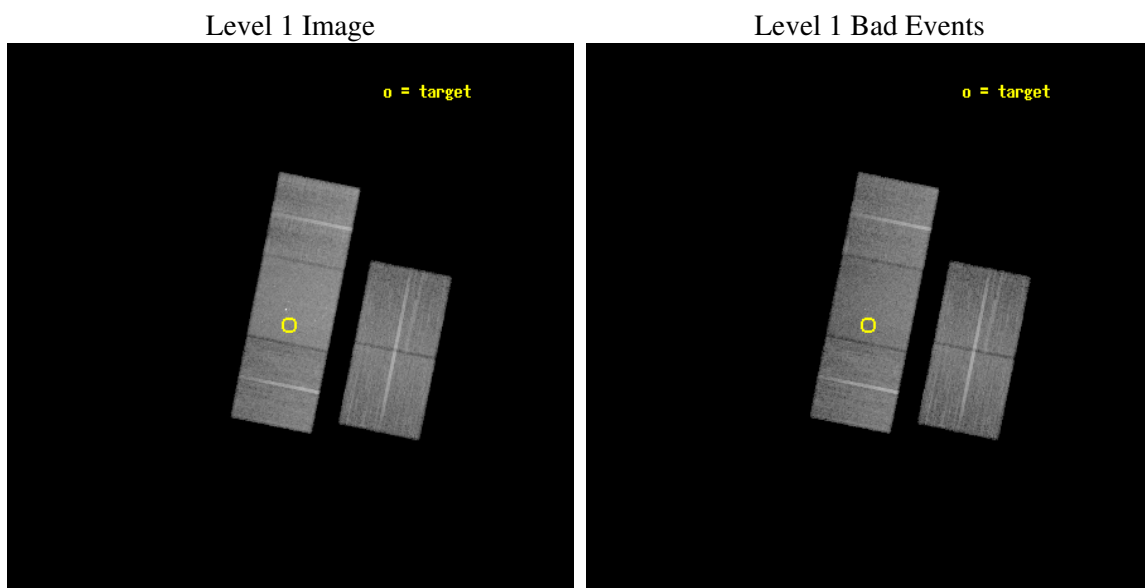
| | |
|----------|---|
| seq_num | 701325 |
| obs_id | 6910 |
| title | A Chandra Study of Optical Hot-Spots in Two Nearby FR II Radio Galaxies |
| observer | Dr. Stephen Murray |
| object | 3C 33 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 17.213333 |
| dec_targ | 13.310119 |
| ra_nom | 17.211886962524 |
| dec_nom | 13.308570593366 |
| roll_nom | 281.45695003813 |
| revision | 2 |
| ontime | 20174.799961209 |
| livetime | 19911.201347244 |
| ontime2 | 20171.658970952 |
| ontime3 | 20174.799961209 |
| ontime6 | 20174.799961209 |
| ontime7 | 20174.799961209 |
| ontime8 | 20171.658980966 |
| l2events | 154593 |



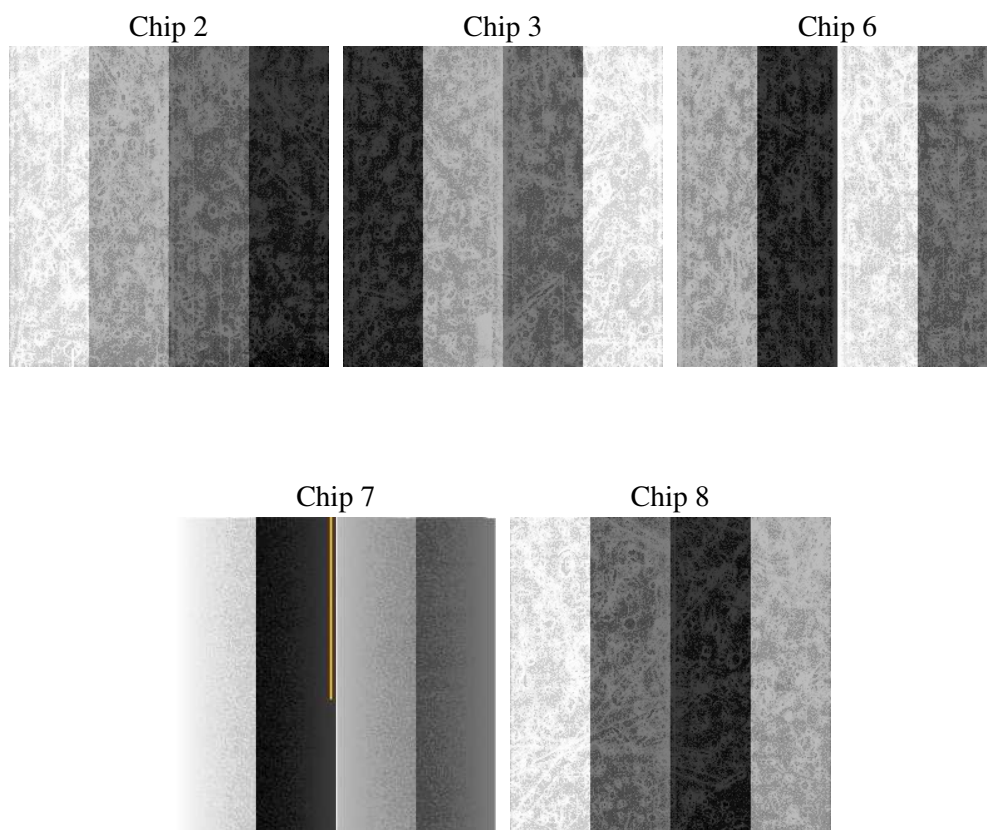
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.1 |
| caldbver | 3.2.1 |
| date | 2006-04-04T19:43:43 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 20000.000000 |
| ontime | 21289.780662745 |
| ontime2 | 21286.639672488 |
| ontime3 | 21289.780662745 |
| ontime6 | 21289.780662745 |
| ontime7 | 21289.780662745 |
| ontime8 | 21286.639682502 |
| llevents | 964681 |

2.1.4 Events

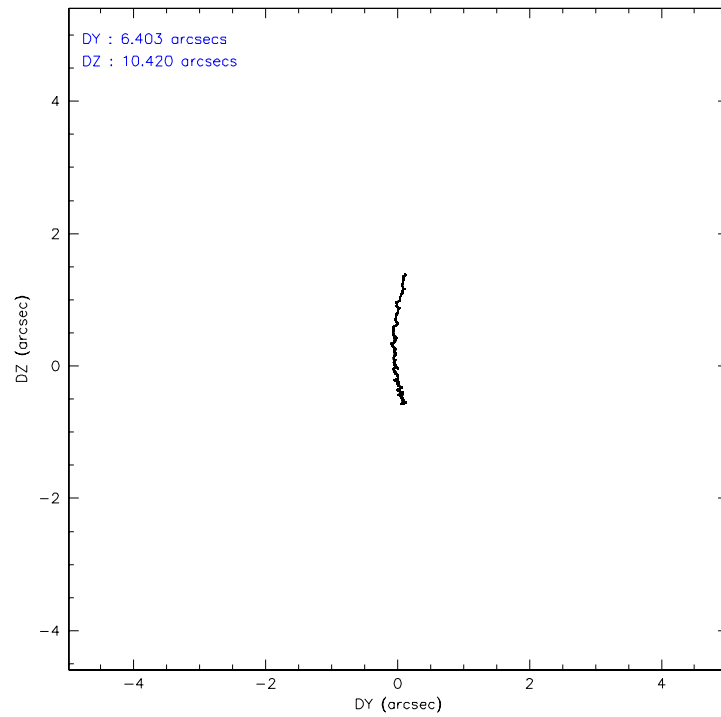
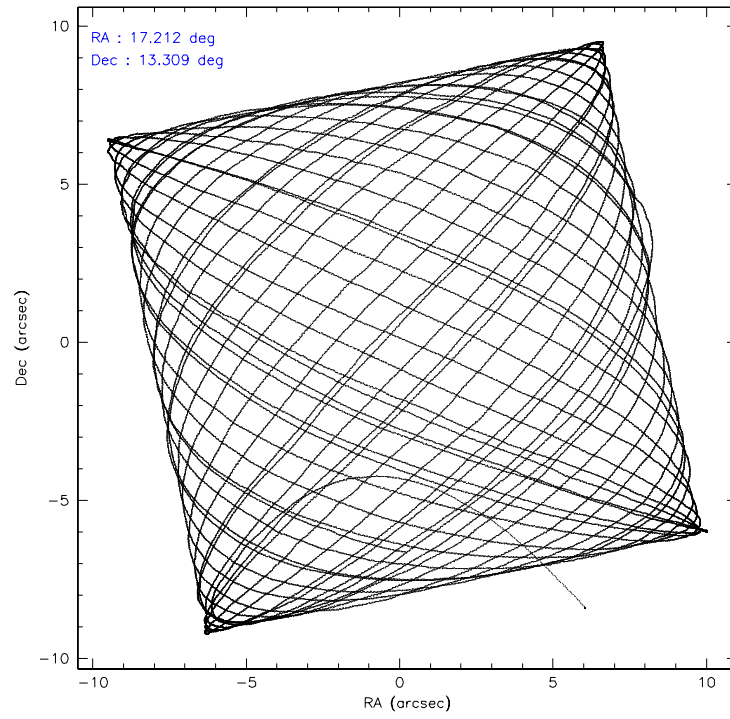
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 168923 | 166003 | 176649 | 234633 | 218473 |
| rejected events | 150367 | 147403 | 155251 | 149511 | 174231 |
| rejected % | 89% | 88% | 87% | 63% | 79% |

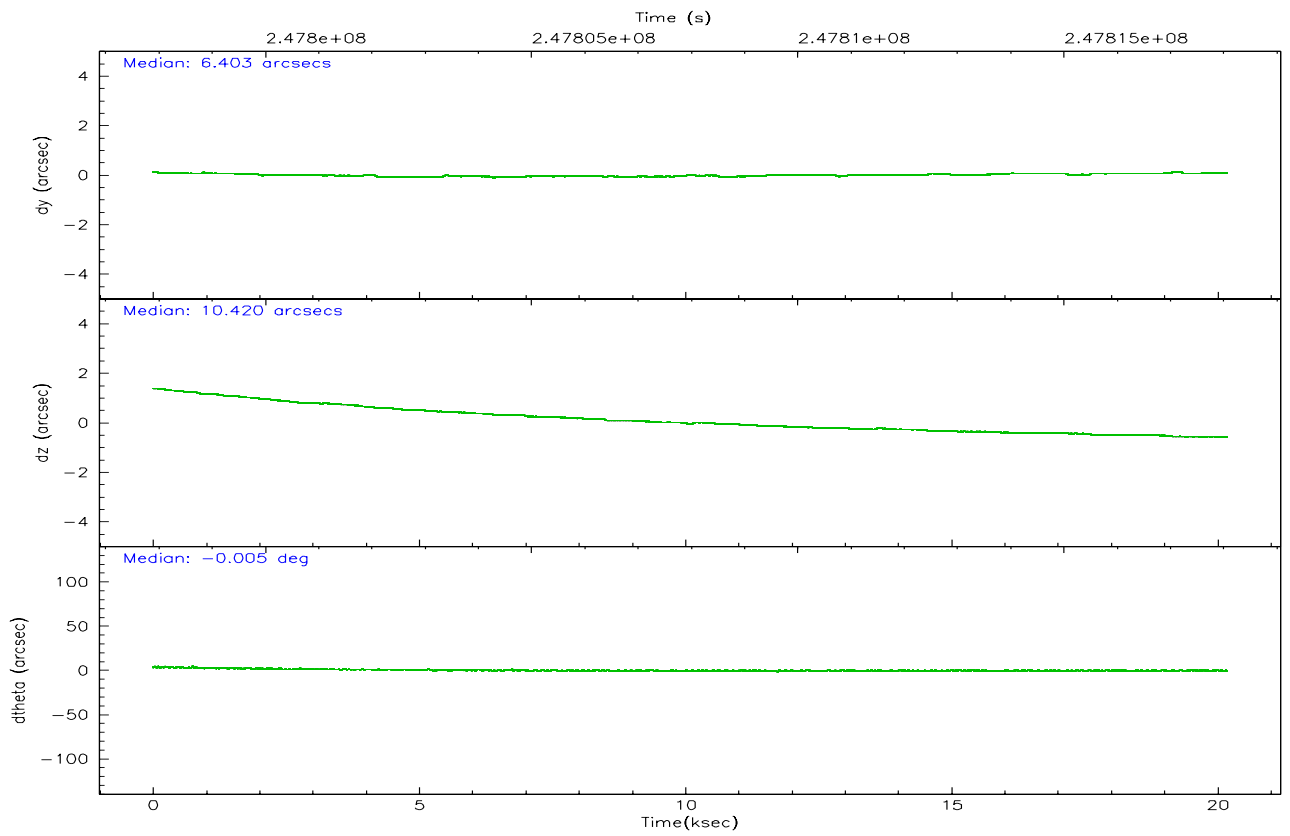
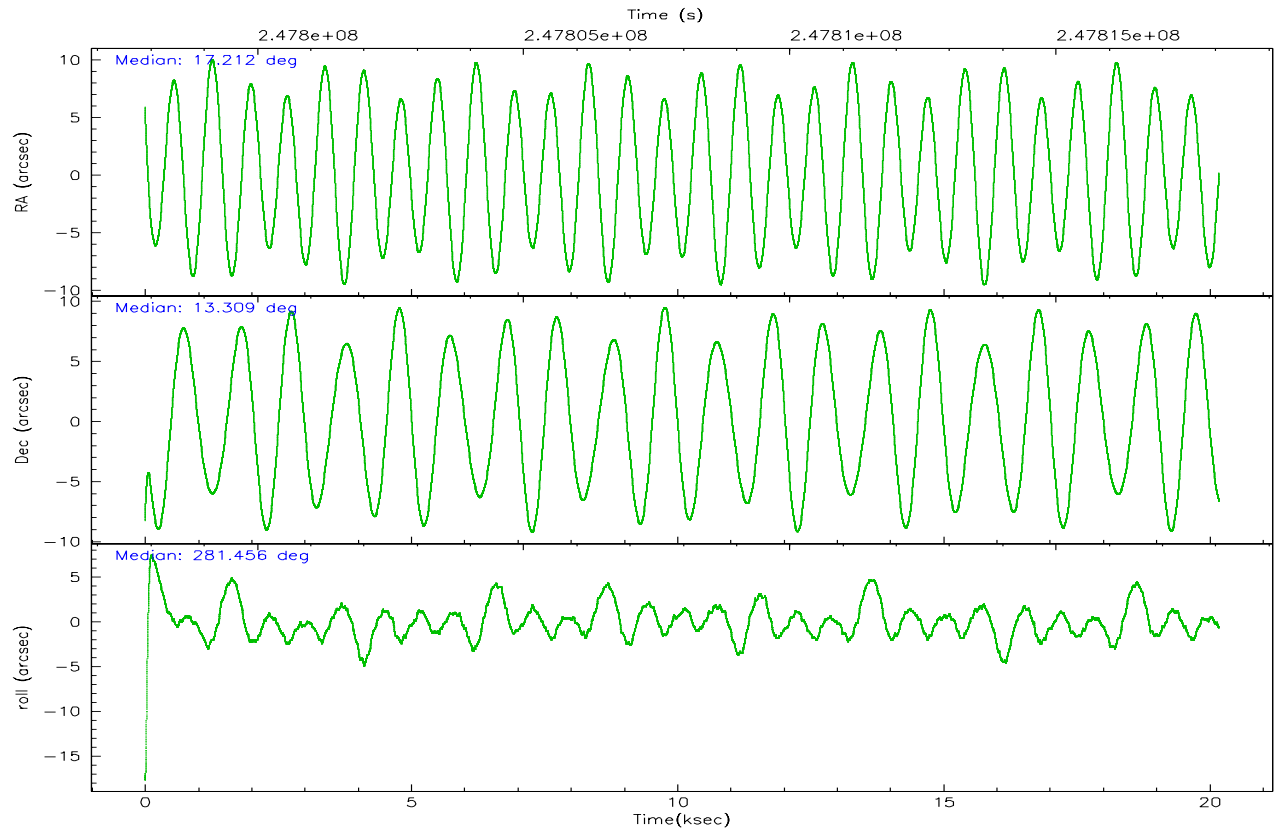
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|
| grade 0 events | 8824 | 8453 | 9653 | 5489 | 14809 |
| | 5% | 5% | 5% | 2% | 6% |
| grade 1 events | 91 | 101 | 110 | 128 | 125 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 3913 | 3884 | 4671 | 22598 | 10567 |
| | 2% | 2% | 2% | 9% | 4% |
| grade 3 events | 1852 | 1950 | 2082 | 4478 | 4754 |
| | 1% | 1% | 1% | 1% | 2% |
| grade 4 events | 1844 | 1921 | 1971 | 4314 | 4440 |
| | 1% | 1% | 1% | 1% | 2% |
| grade 5 events | 6285 | 7610 | 8138 | 15295 | 10533 |
| | 3% | 4% | 4% | 6% | 4% |
| grade 6 events | 3154 | 3477 | 4148 | 52735 | 11974 |
| | 1% | 2% | 2% | 22% | 5% |
| grade 7 events | 142960 | 138607 | 145876 | 129596 | 161271 |
| | 84% | 83% | 82% | 55% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-23678 | ACIS-23678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 17.193096 | 17.21188696252409 | Alternating exposures requested | N | N |
| Pointing Dec | 13.328733 | 13.30857059336561 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 281.304669 | 281.4569500381269 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 247798061.184000 | 247796508.31281 | | | |
| Observation start date | 2005-11-08T00:46:37 | 2005-11-08T00:21:48 | | | |
| Observation end time | 247818061.184000 | 247819231.02636 | | | |
| Observation end date | 2005-11-08T06:19:57 | 2005-11-08T06:40:31 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



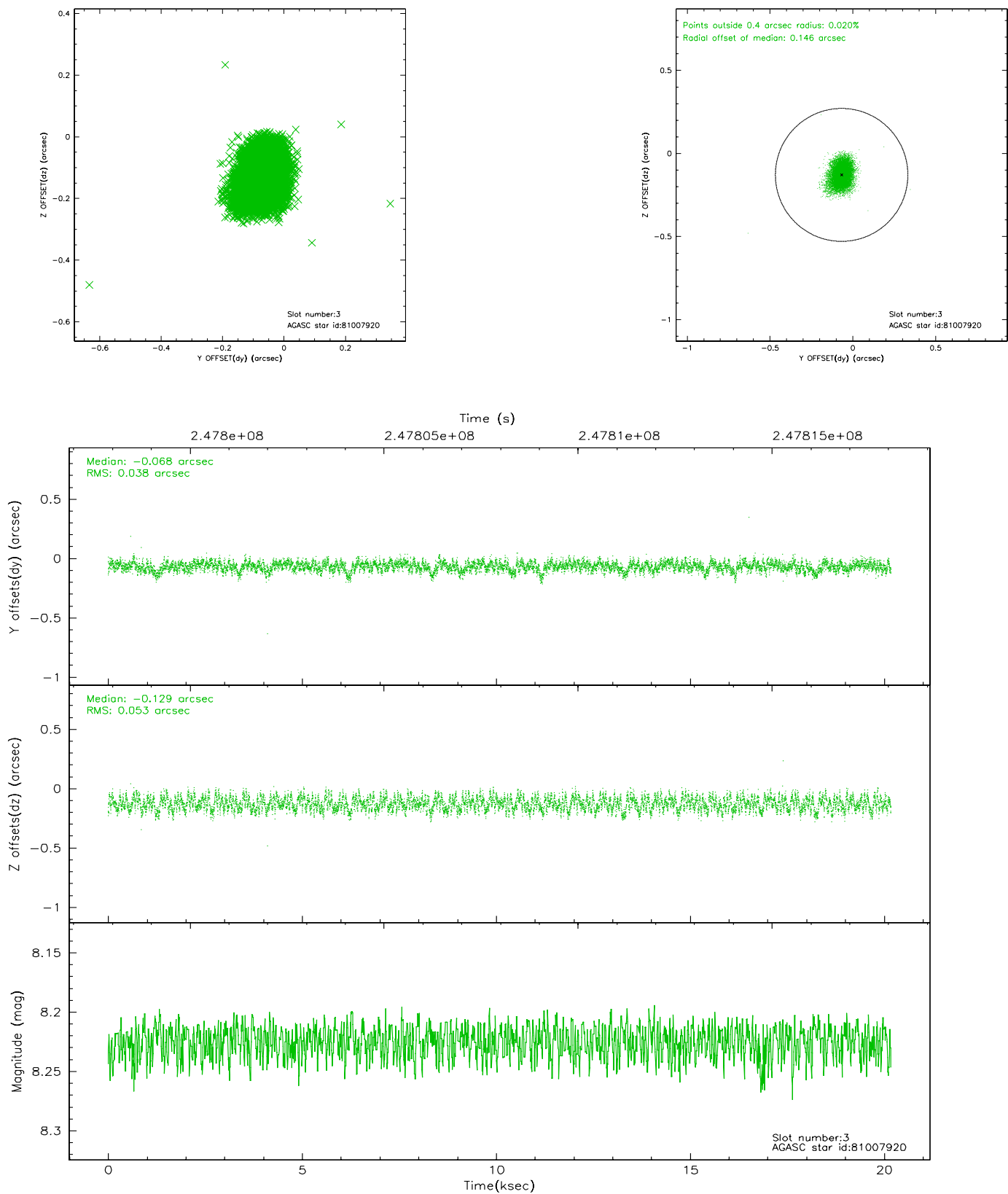


Slot Statistics

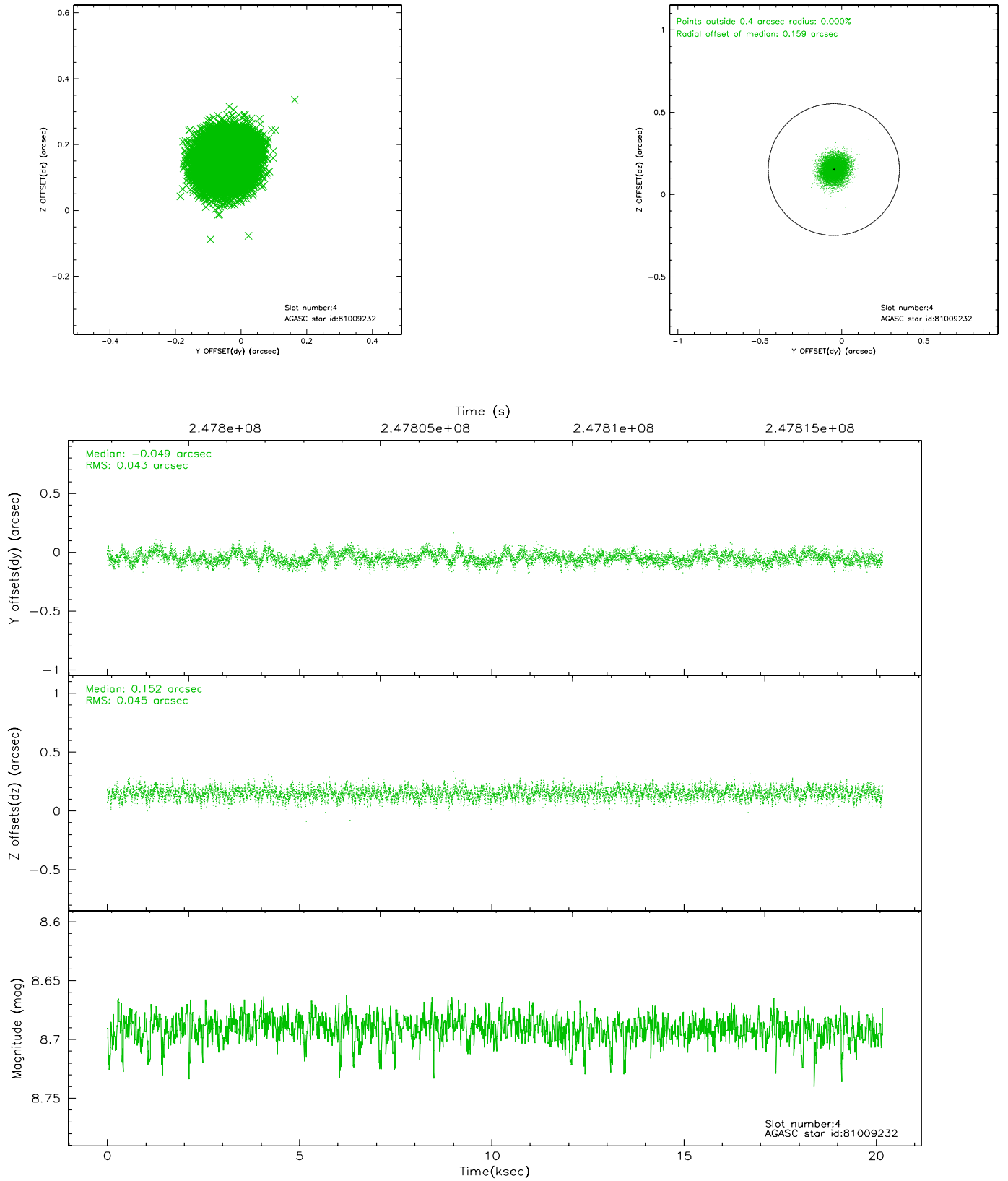
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 4922 | -0.054 | 0.001 | 0.010 | 0.021 | 0.000000 | 0.000000 | -759.16 | -1731.82 |
| 1 | FID | ACIS-S-4 | 7.21 | 4921 | 0.056 | 0.026 | 0.011 | 0.026 | 0.000000 | 0.000000 | 2154.10 | 176.55 |
| 2 | FID | ACIS-S-5 | 7.24 | 4921 | -0.032 | -0.017 | 0.009 | 0.015 | 0.000000 | 0.000000 | -1811.78 | 170.32 |
| 3 | GUIDE | 81007920 | 8.22 | 9844 | -0.068 | -0.129 | 0.070 | 0.111 | 16.552631 | 13.252748 | -173.93 | -2252.69 |
| 4 | GUIDE | 81009232 | 8.69 | 9840 | -0.049 | 0.152 | 0.067 | 0.107 | 17.046481 | 13.691825 | -1382.16 | -246.41 |
| 5 | GUIDE | 81011112 | 8.74 | 9840 | 0.079 | 0.081 | 0.069 | 0.112 | 17.296463 | 12.693067 | 2315.26 | -92.09 |
| 6 | GUIDE | 81012328 | 9.63 | 9802 | 0.226 | 0.031 | 0.103 | 0.165 | 17.237006 | 12.753828 | 2060.62 | -254.31 |
| 7 | GUIDE | 81005408 | 7.42 | 9844 | -0.186 | -0.132 | 0.061 | 0.093 | 16.652176 | 13.884607 | -2334.29 | -1460.79 |

2.4 Star Slots

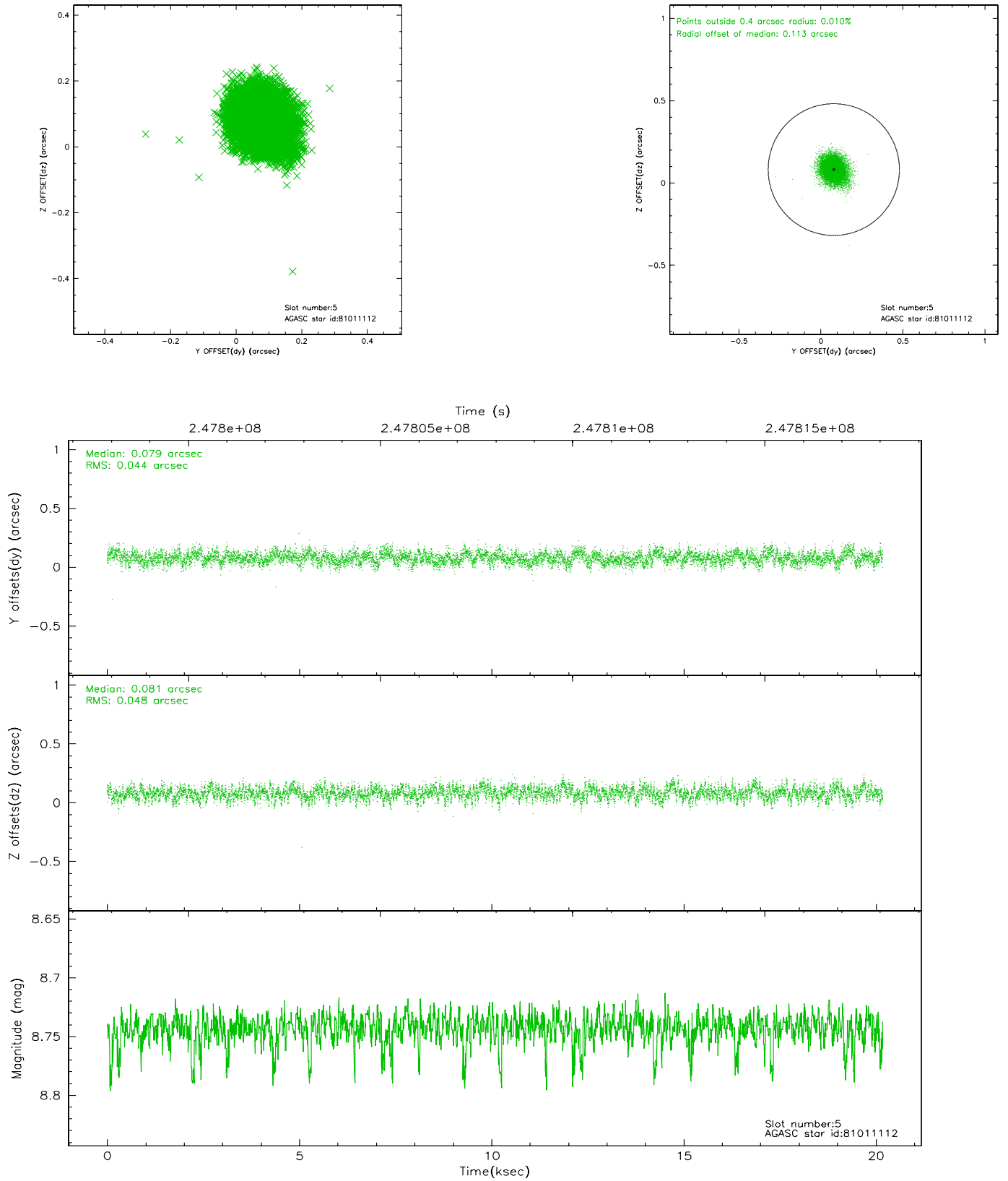
2.4.1 Slot 3



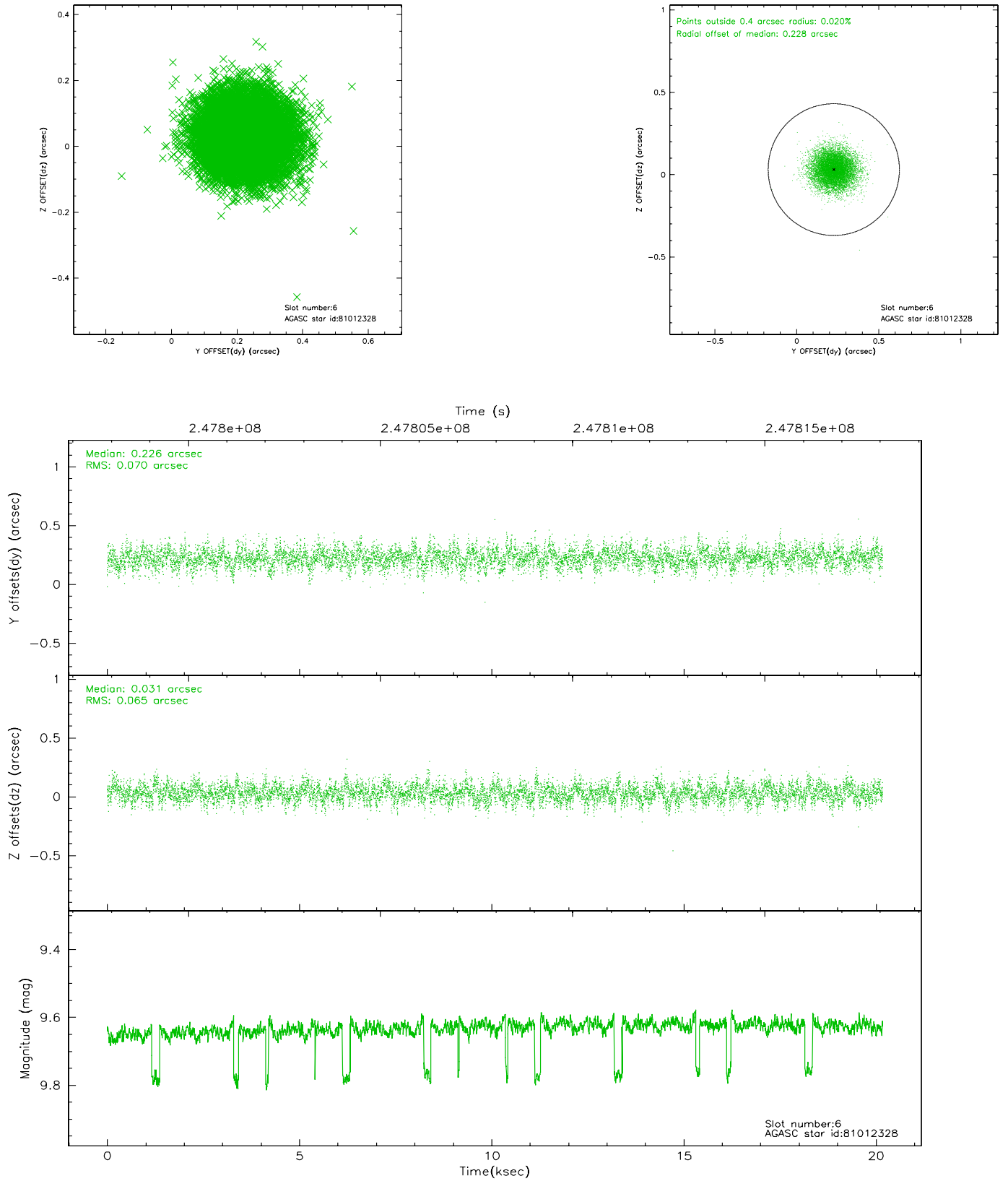
2.4.2 Slot 4



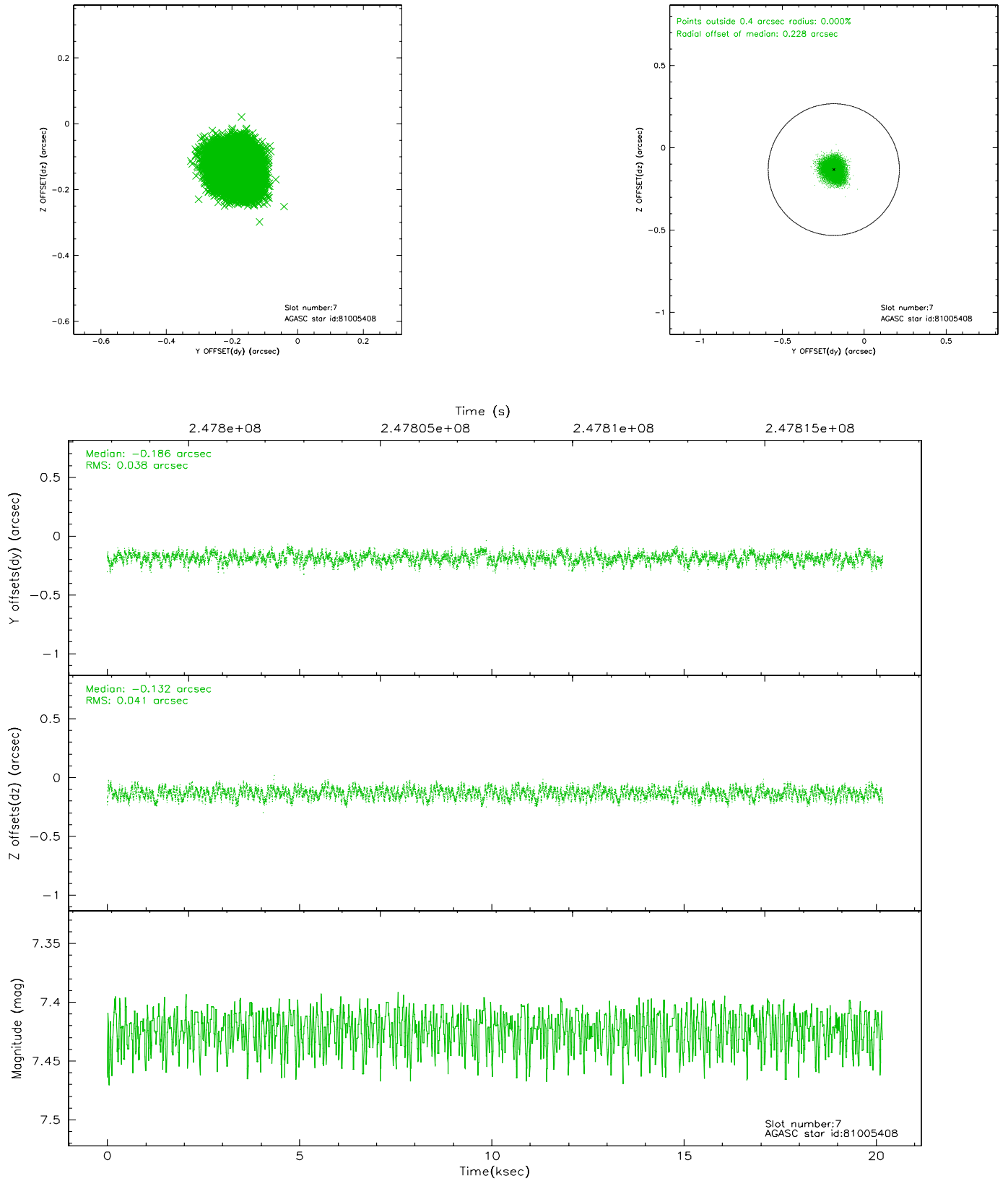
2.4.3 Slot 5



2.4.4 Slot 6

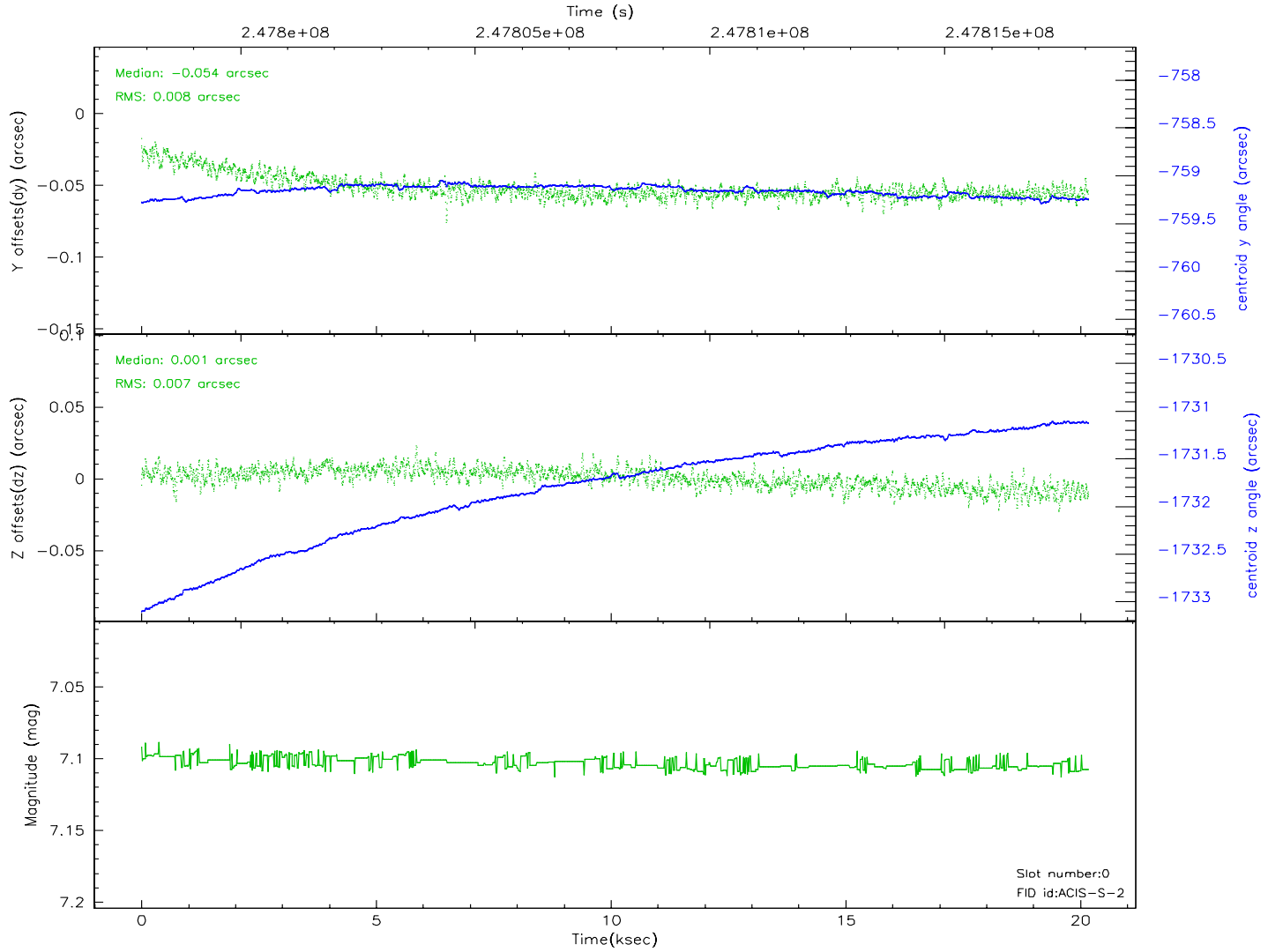
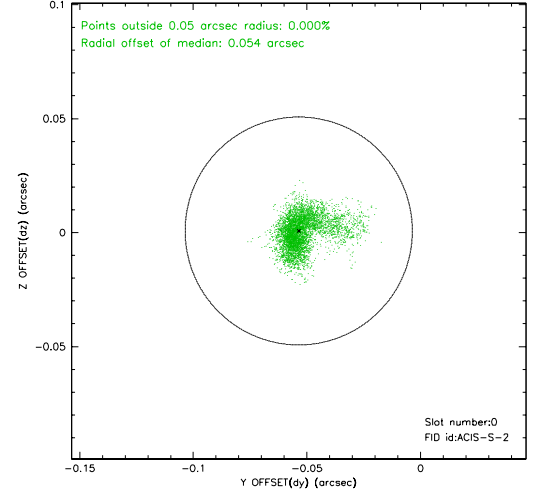
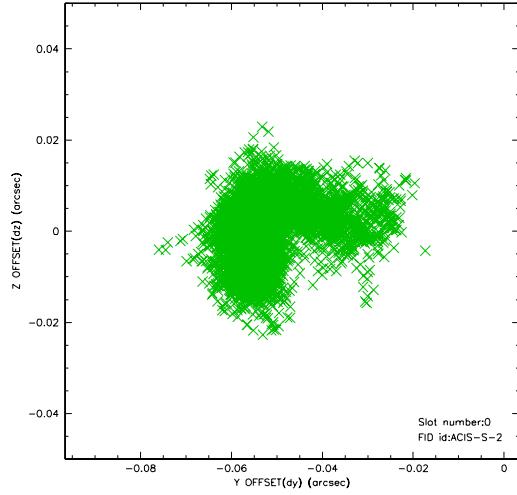


2.4.5 Slot 7

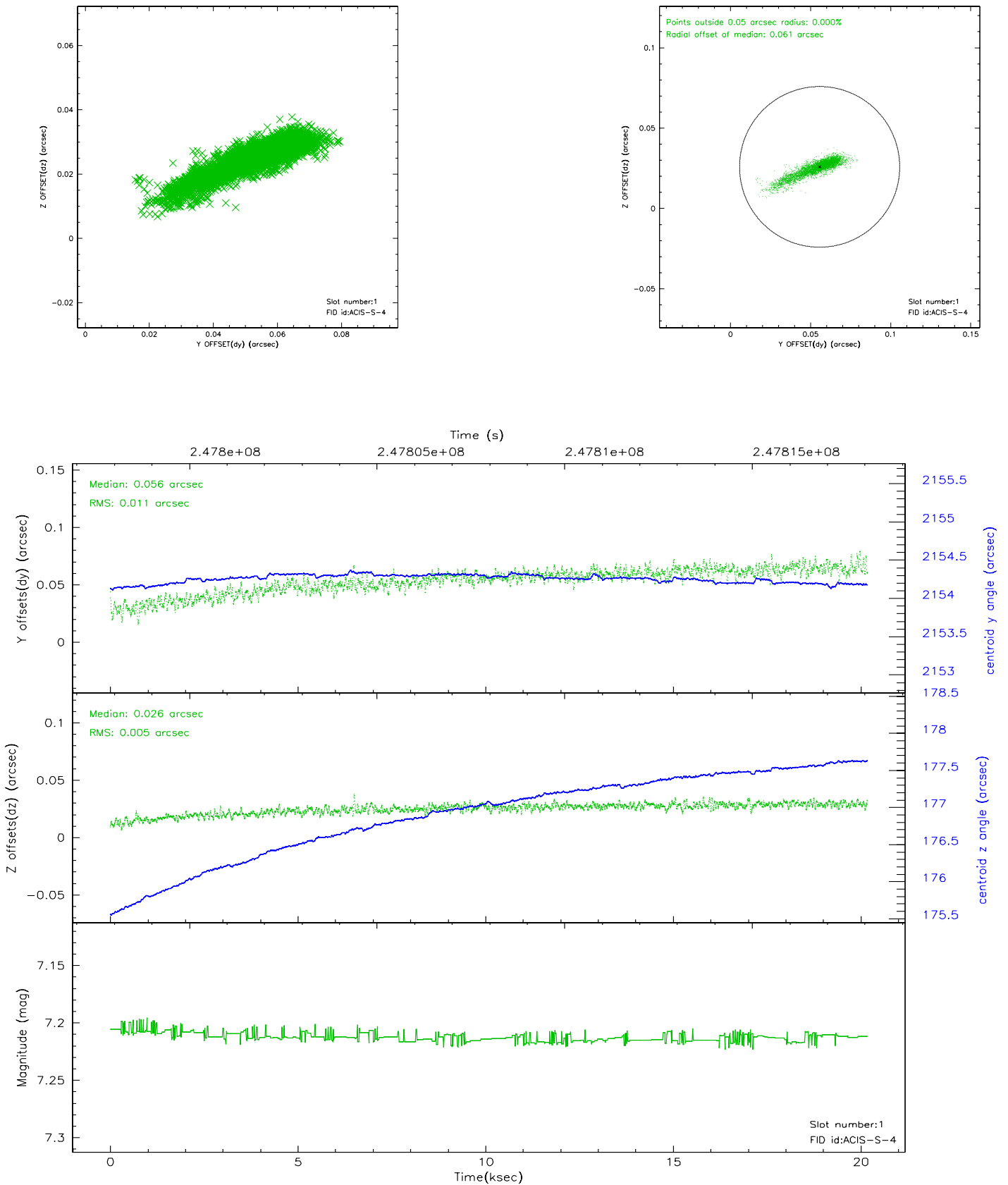


2.5 FID Slots

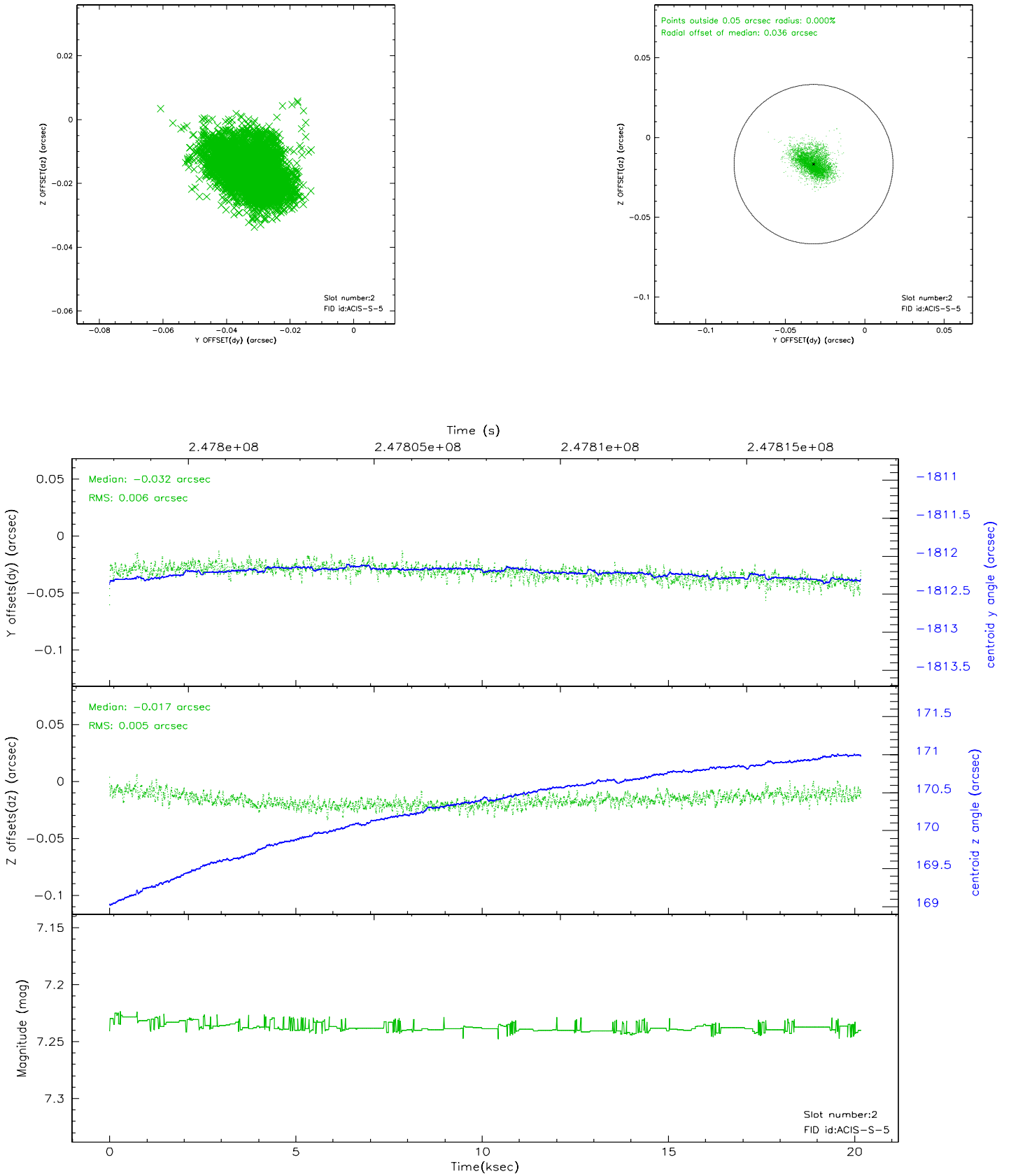
2.5.1 Slot 0



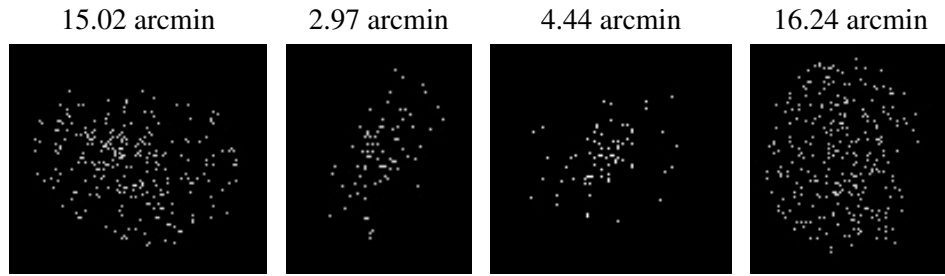
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Doug Morgan |
| V&V Date (YYYY-MM-DD) | 2006.04.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 20.17479 |

A.2 Comments