

V&V Reference Report

L2 ASCDS Version : 7.6.11

Observation 434 - L2 Version 2
Chandra X-Ray Center

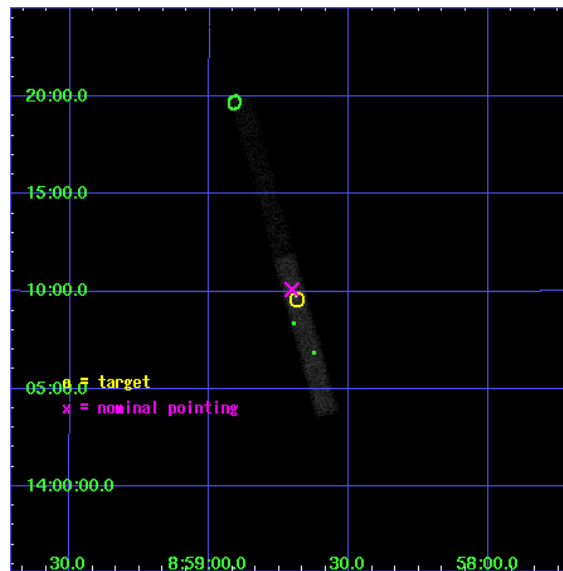
L2 Processing Date : Aug 27 2007

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

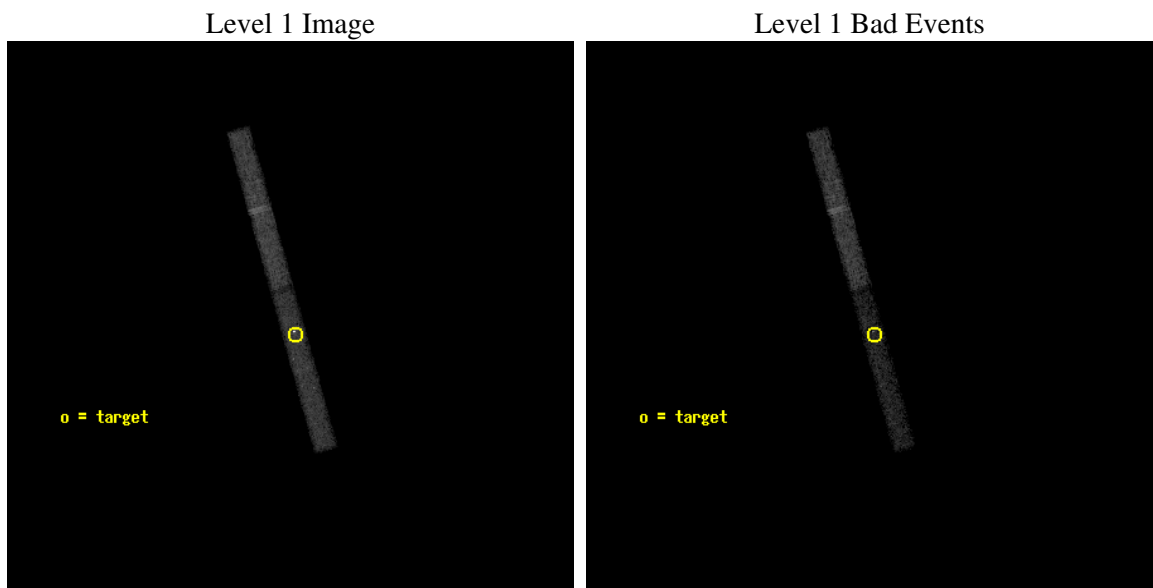
| | |
|----------|--------------------------|
| seq_num | 700106 |
| obs_id | 434 |
| title | OBSCURED QUASARS AND AGN |
| observer | Dr. Stephen Murray |
| object | 3C 212 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 134.671667 |
| dec_targ | 14.159444 |
| ra_nom | 134.67614849586 |
| dec_nom | 14.168359010522 |
| roll_nom | 74.36088380006 |
| revision | 2 |
| ontime | 19536.0 |
| livetime | 18054.117994973 |
| ontime6 | 19535.458960012 |
| ontime7 | 19536.0 |
| l2events | 15610 |



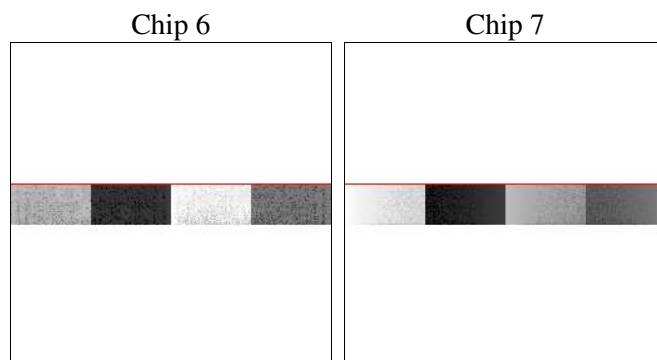
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.11 |
| caldbver | 3.4.0 |
| date | 2007-08-27T20:55:27 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 20300.000000 |
| ontime | 19536.0 |
| ontime6 | 19535.458960012 |
| ontime7 | 19536.0 |
| l1events | 54616 |

2.1.4 Events

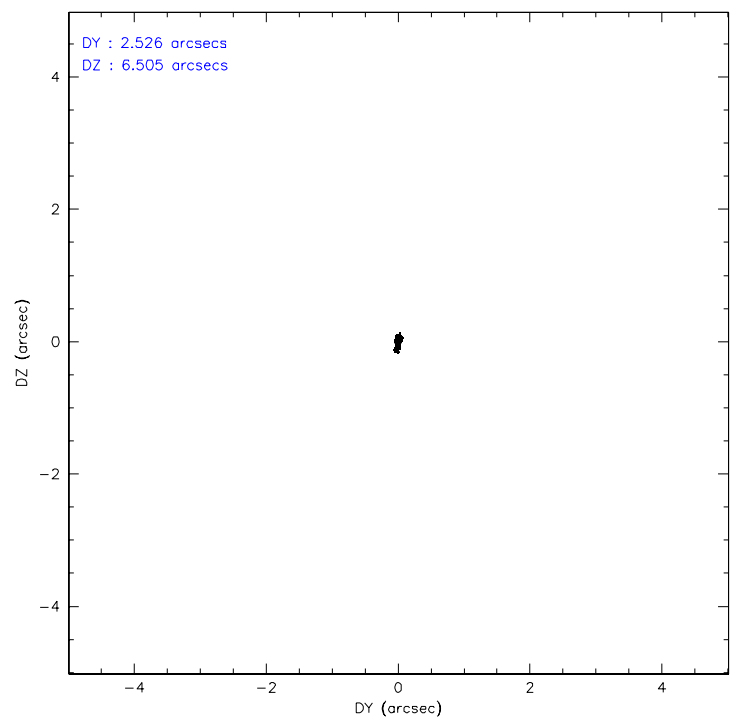
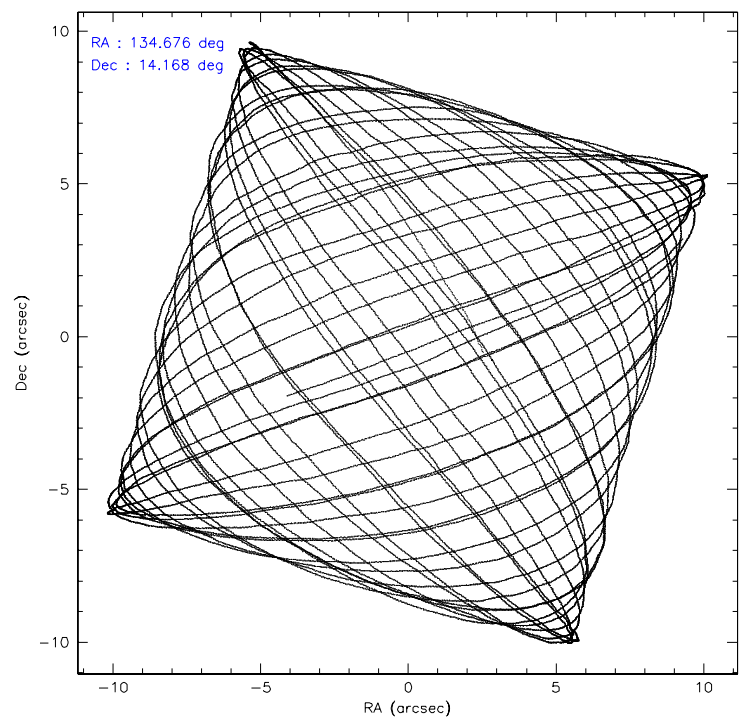
| | ccd 6 | ccd 7 |
|-----------------|-------|-------|
| level 1 events | 28927 | 25689 |
| rejected events | 25871 | 11582 |
| rejected % | 89% | 45% |

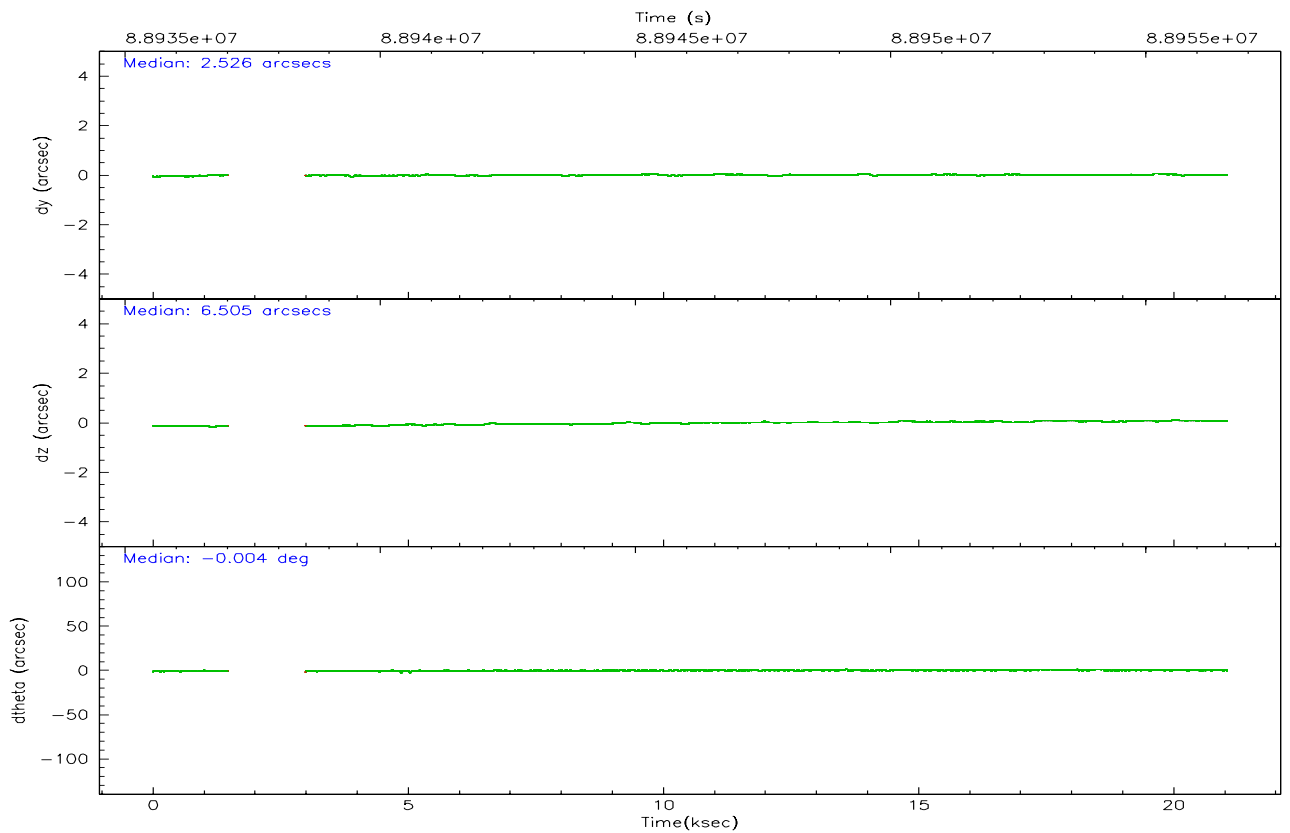
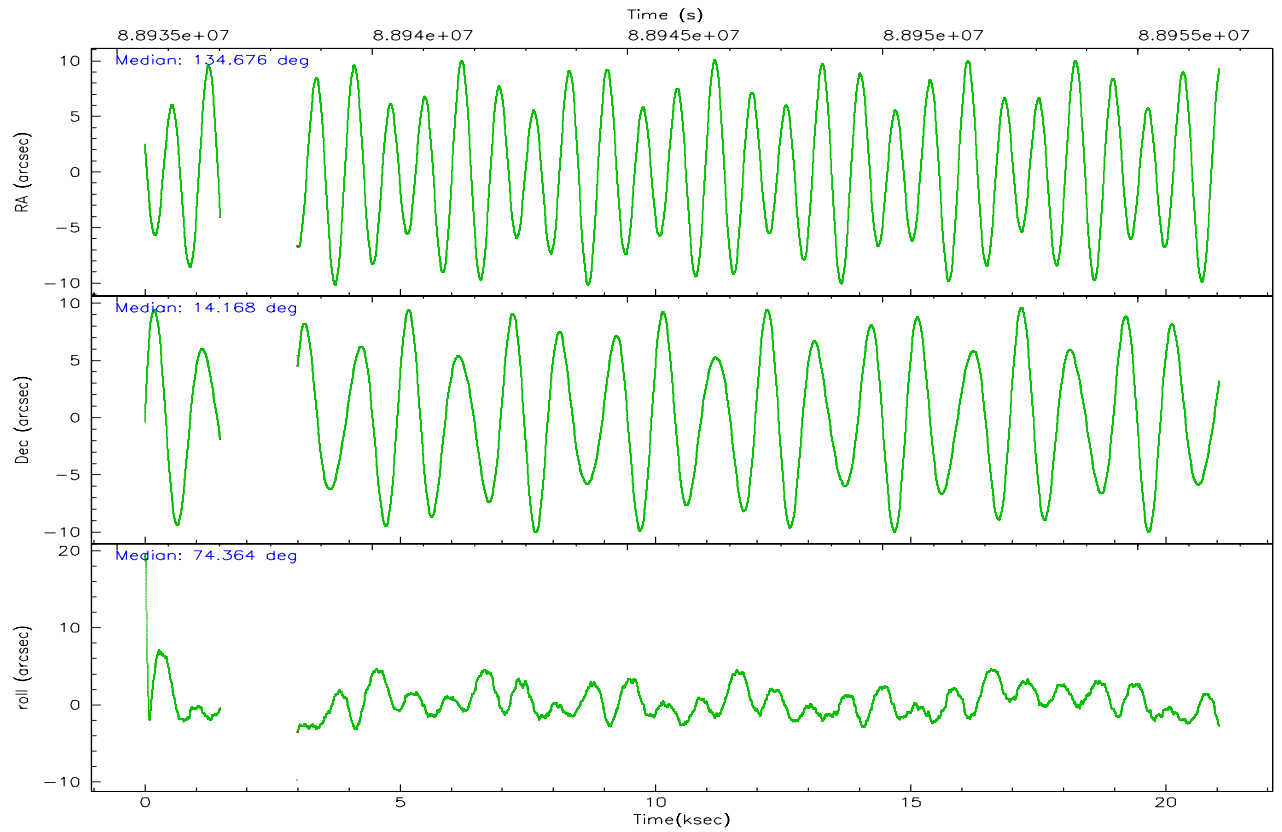
| | ccd 6 | ccd 7 |
|----------------|-------|-------|
| grade 0 events | 916 | 2371 |
| | 3% | 9% |
| grade 1 events | 2 | 43 |
| | 0% | 0% |
| grade 2 events | 568 | 3070 |
| | 1% | 11% |
| grade 3 events | 574 | 1763 |
| | 1% | 6% |
| grade 4 events | 506 | 1718 |
| | 1% | 6% |
| grade 5 events | 620 | 2091 |
| | 2% | 8% |
| grade 6 events | 515 | 5265 |
| | 1% | 20% |
| grade 7 events | 25226 | 9368 |
| | 87% | 36% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-67 | ACIS-67 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| Pointing RA | 134.683330 | 134.6761484958587 | Subarray requested | CUSTOM | 1/8 |
| Pointing Dec | 14.141862 | 14.16835901052155 | Subarray start row | 447 | 447 |
| Pointing Roll | 74.202490 | 74.36088380005975 | Subarray row count | 128 | 128 |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| SIM defocus (mm) | 0 | 0.001444936568705701 | Primary exposure time | 0.000000 | 0.5 |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 88936291.184000 | 88935051.069277 | | | |
| Observation start date | 2000-10-26T08:30:27 | 2000-10-26T08:10:51 | | | |
| Observation end time | 88956591.184000 | 88957351.99511901 | | | |
| Observation end date | 2000-10-26T14:08:47 | 2000-10-26T14:22:31 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



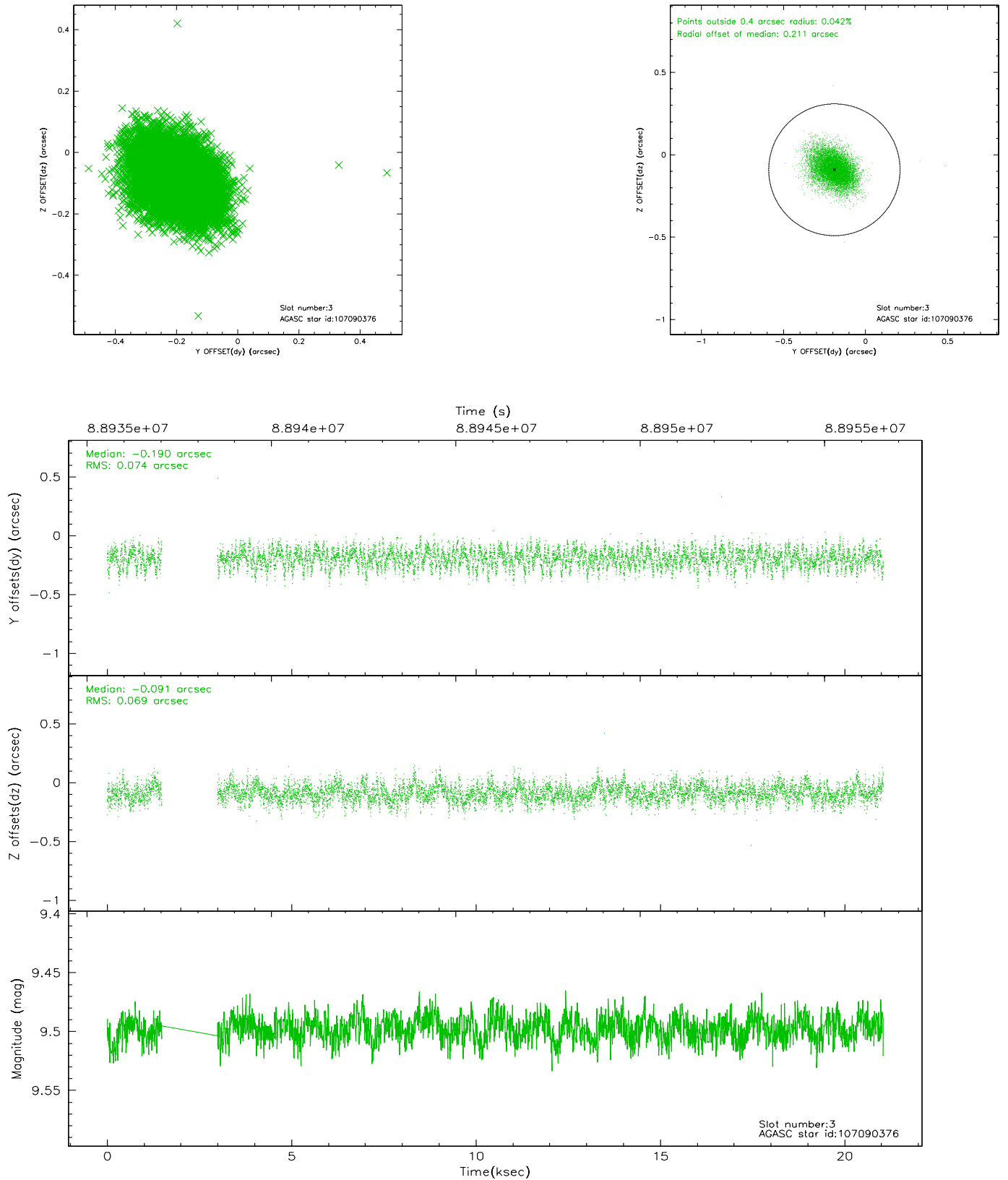


Slot Statistics

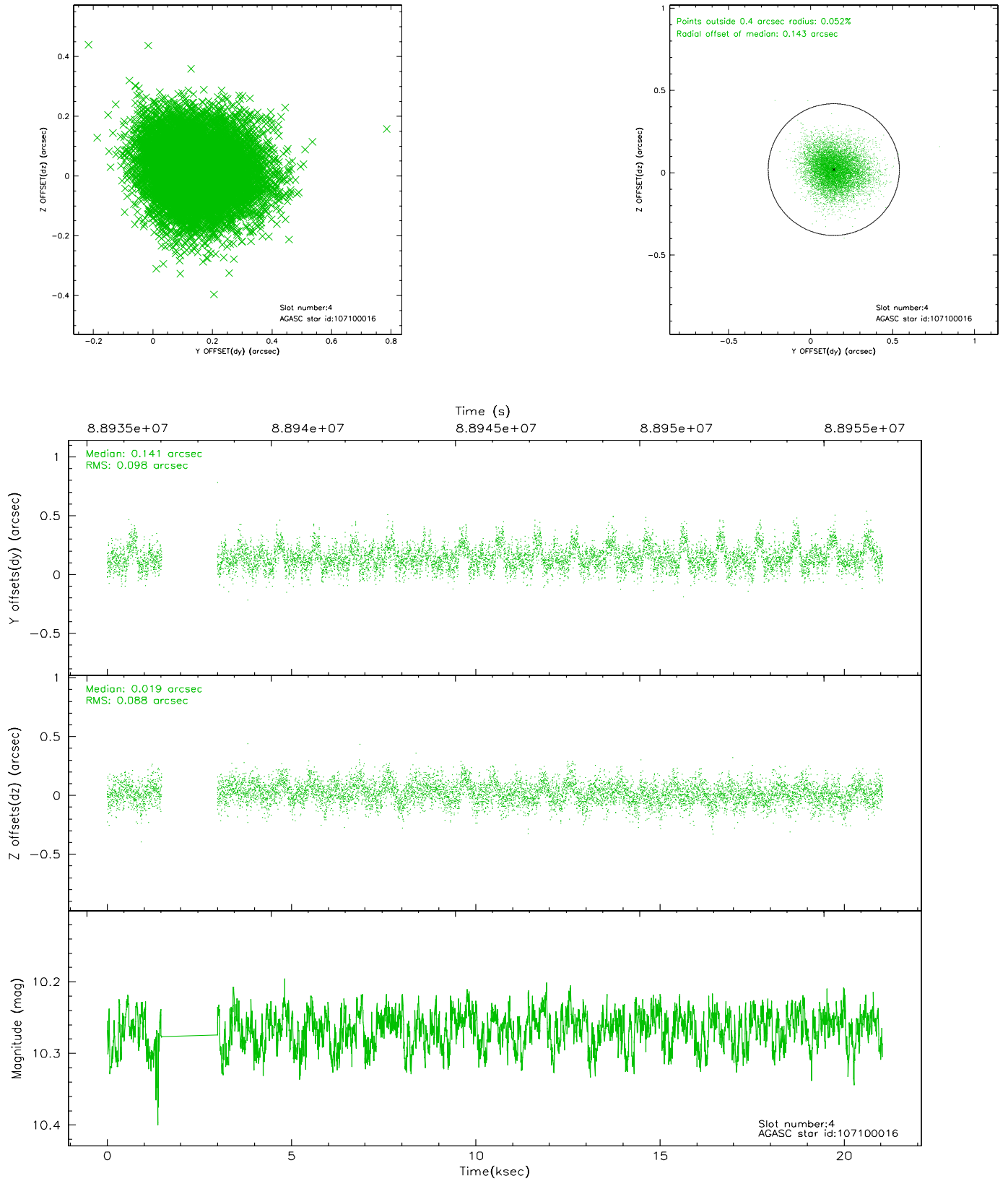
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 4766 | -0.012 | 0.035 | 0.008 | 0.015 | 0.000000 | 0.000000 | -755.16 | -1727.61 |
| 1 | FID | ACIS-S-4 | 7.20 | 4766 | -0.079 | -0.004 | 0.009 | 0.018 | 0.000000 | 0.000000 | 2157.96 | 180.64 |
| 2 | FID | ACIS-S-5 | 7.23 | 4767 | 0.059 | -0.023 | 0.008 | 0.014 | 0.000000 | 0.000000 | -1807.69 | 174.50 |
| 3 | GUIDE | 107090376 | 9.50 | 9523 | -0.190 | -0.091 | 0.108 | 0.175 | 134.213985 | 14.375932 | 367.16 | 1804.56 |
| 4 | GUIDE | 107100016 | 10.26 | 9524 | 0.141 | 0.019 | 0.140 | 0.229 | 134.358054 | 14.147121 | -289.48 | 1098.09 |
| 5 | GUIDE | 107088224 | 9.57 | 9526 | 0.048 | -0.014 | 0.085 | 0.141 | 134.400252 | 14.214554 | -16.06 | 1021.97 |
| 6 | GUIDE | 107224560 | 8.81 | 9530 | -0.162 | 0.129 | 0.111 | 0.188 | 135.510011 | 14.598870 | 2372.31 | -2321.99 |
| 7 | GUIDE | 107090488 | 10.30 | 9522 | 0.163 | -0.033 | 0.187 | 0.287 | 134.645517 | 14.229499 | 268.51 | 212.45 |

2.4 Star Slots

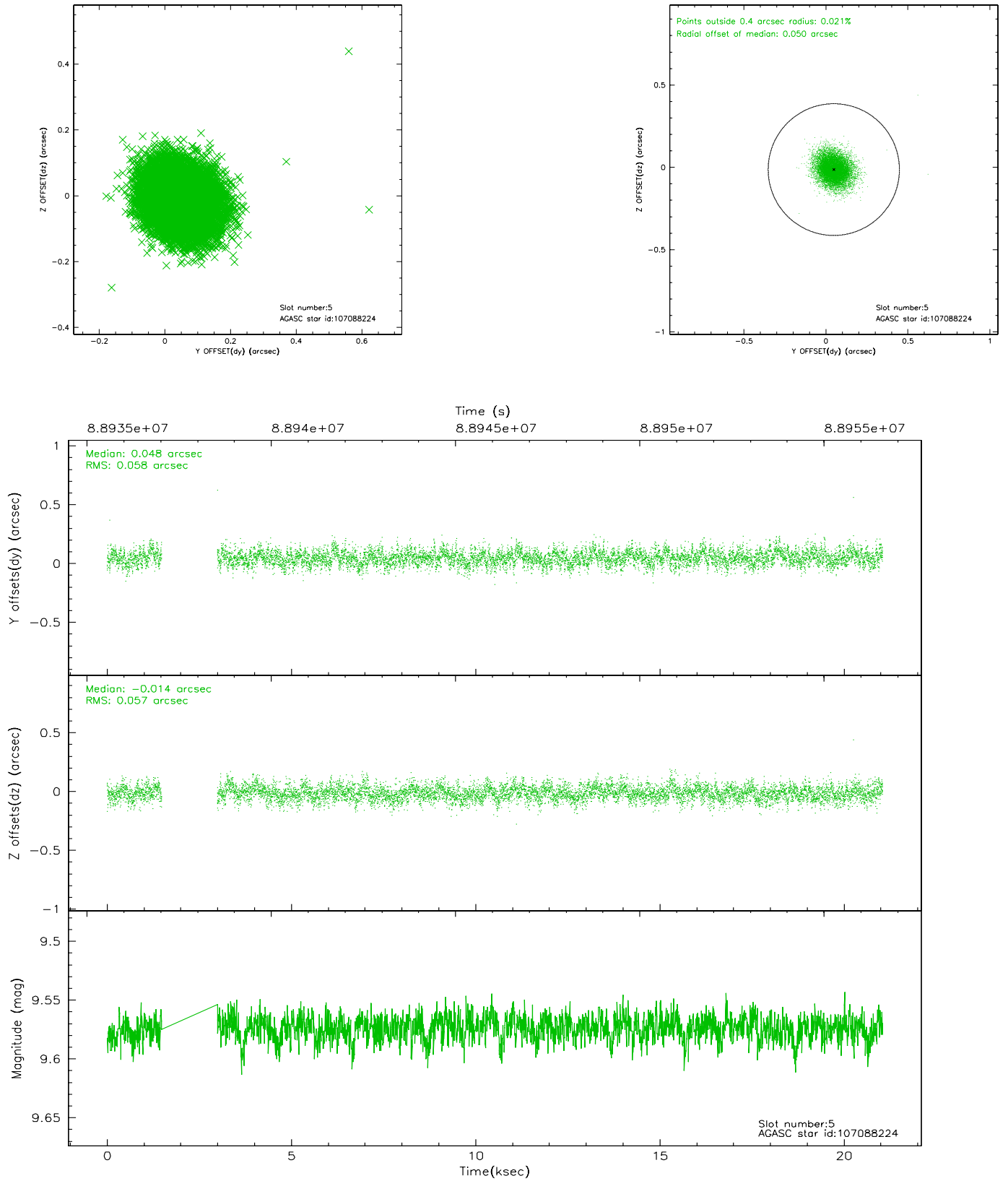
2.4.1 Slot 3



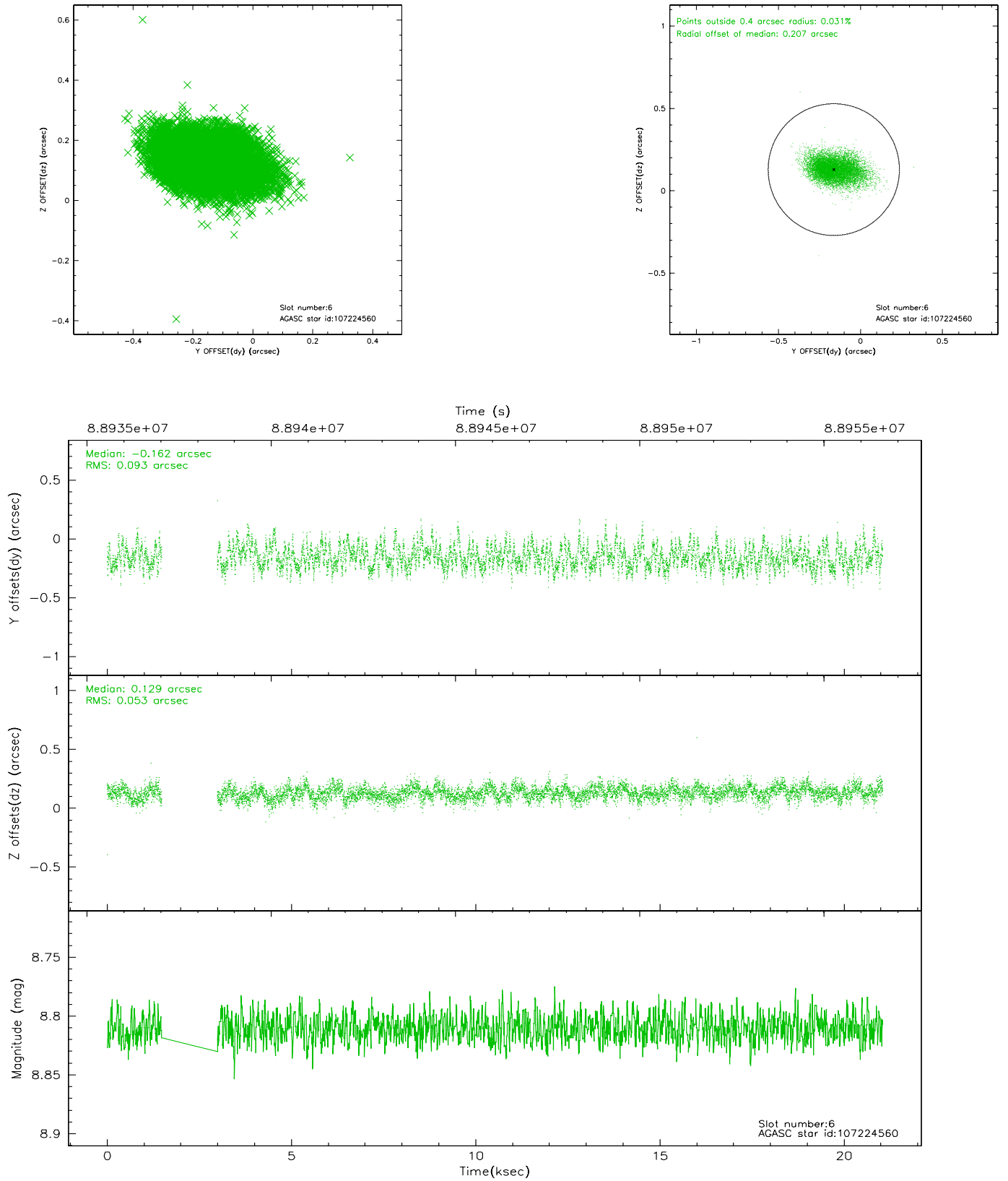
2.4.2 Slot 4



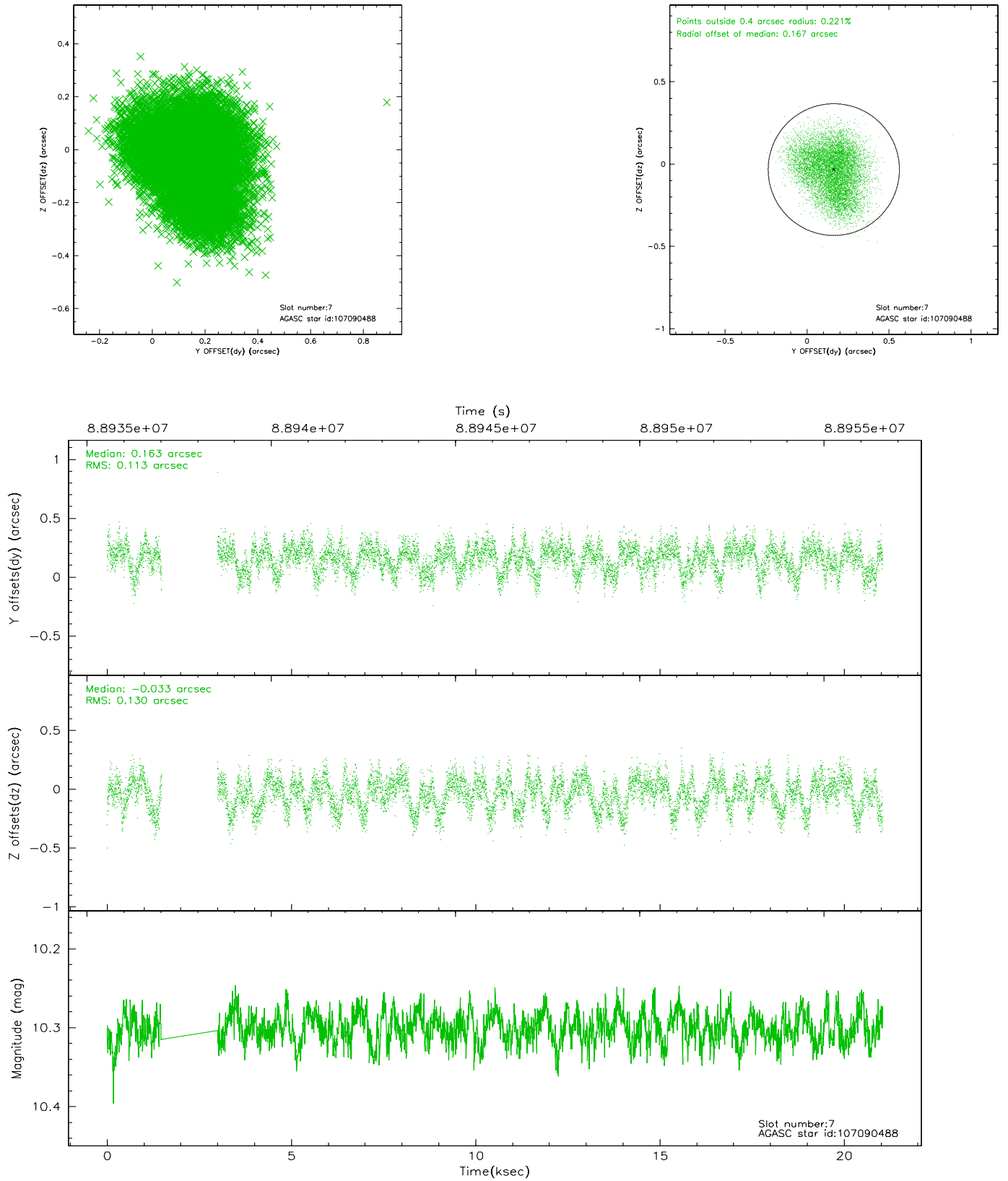
2.4.3 Slot 5



2.4.4 Slot 6

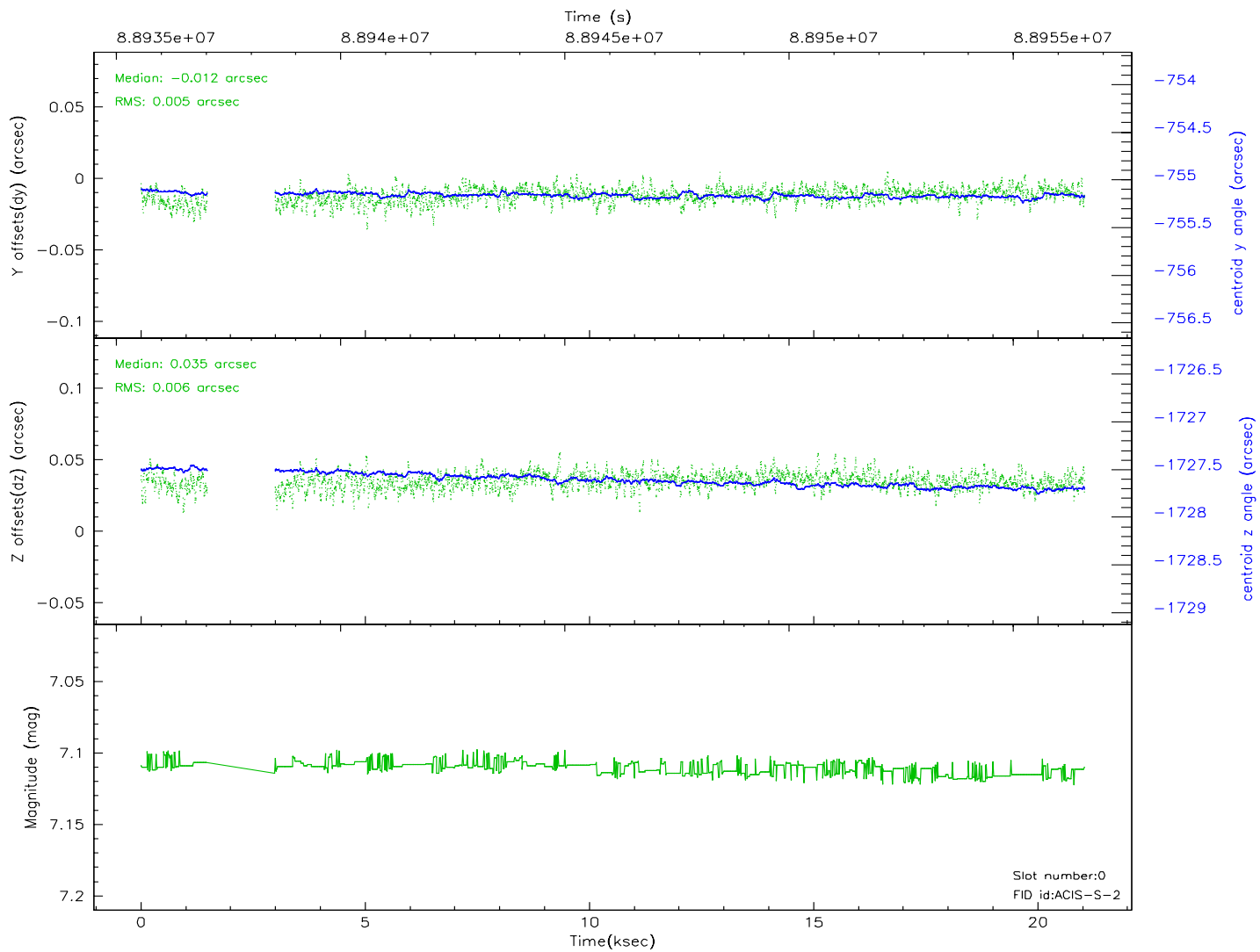
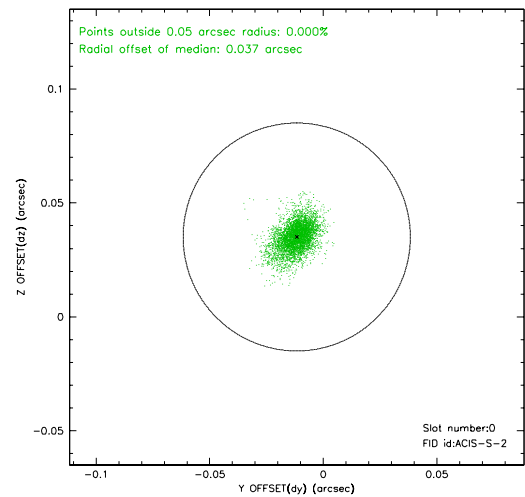
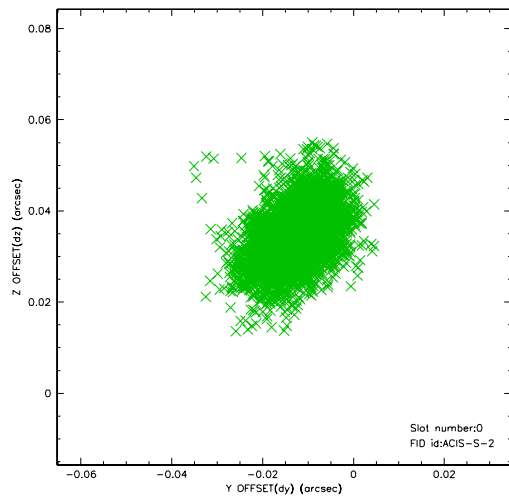


2.4.5 Slot 7

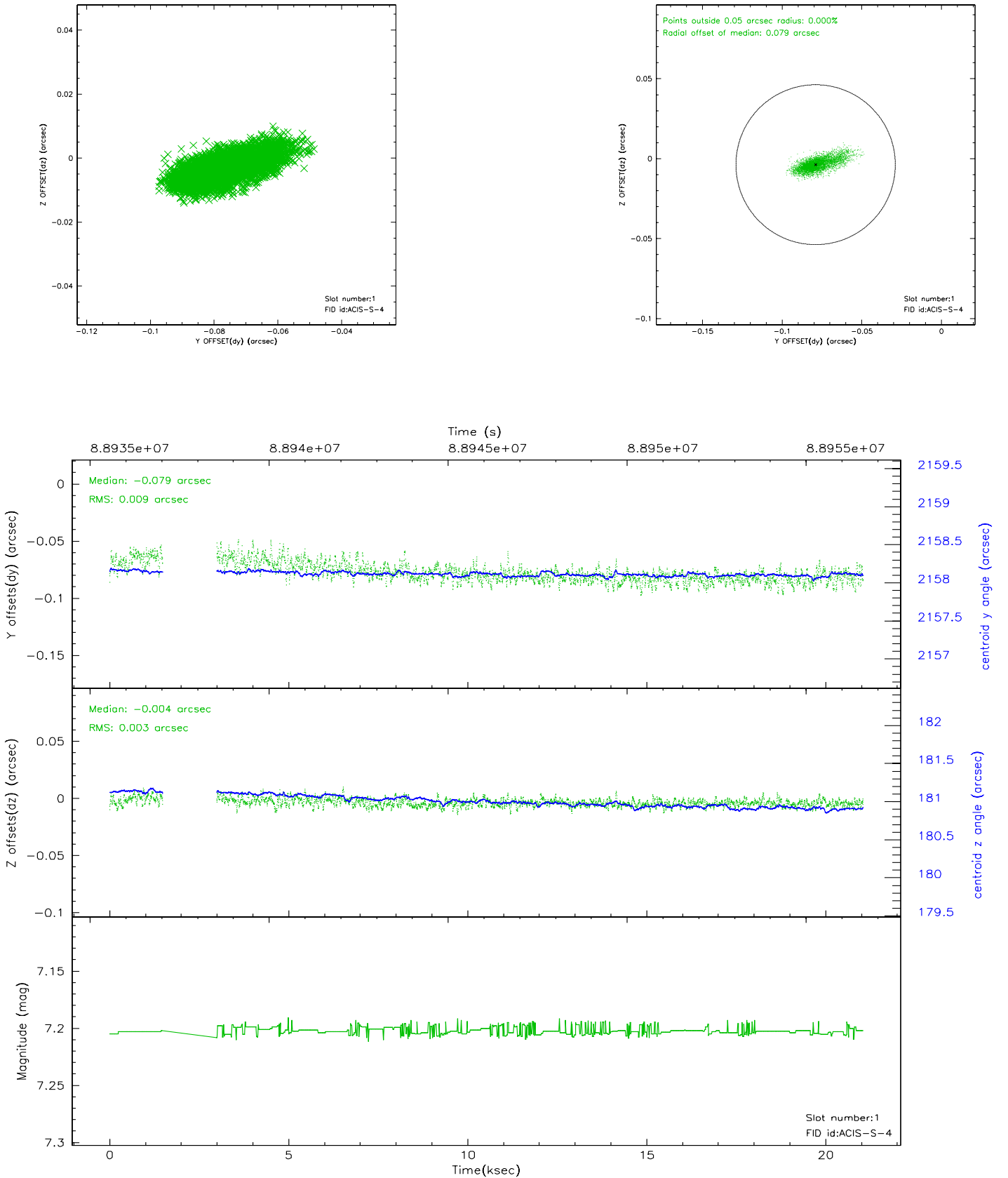


2.5 FID Slots

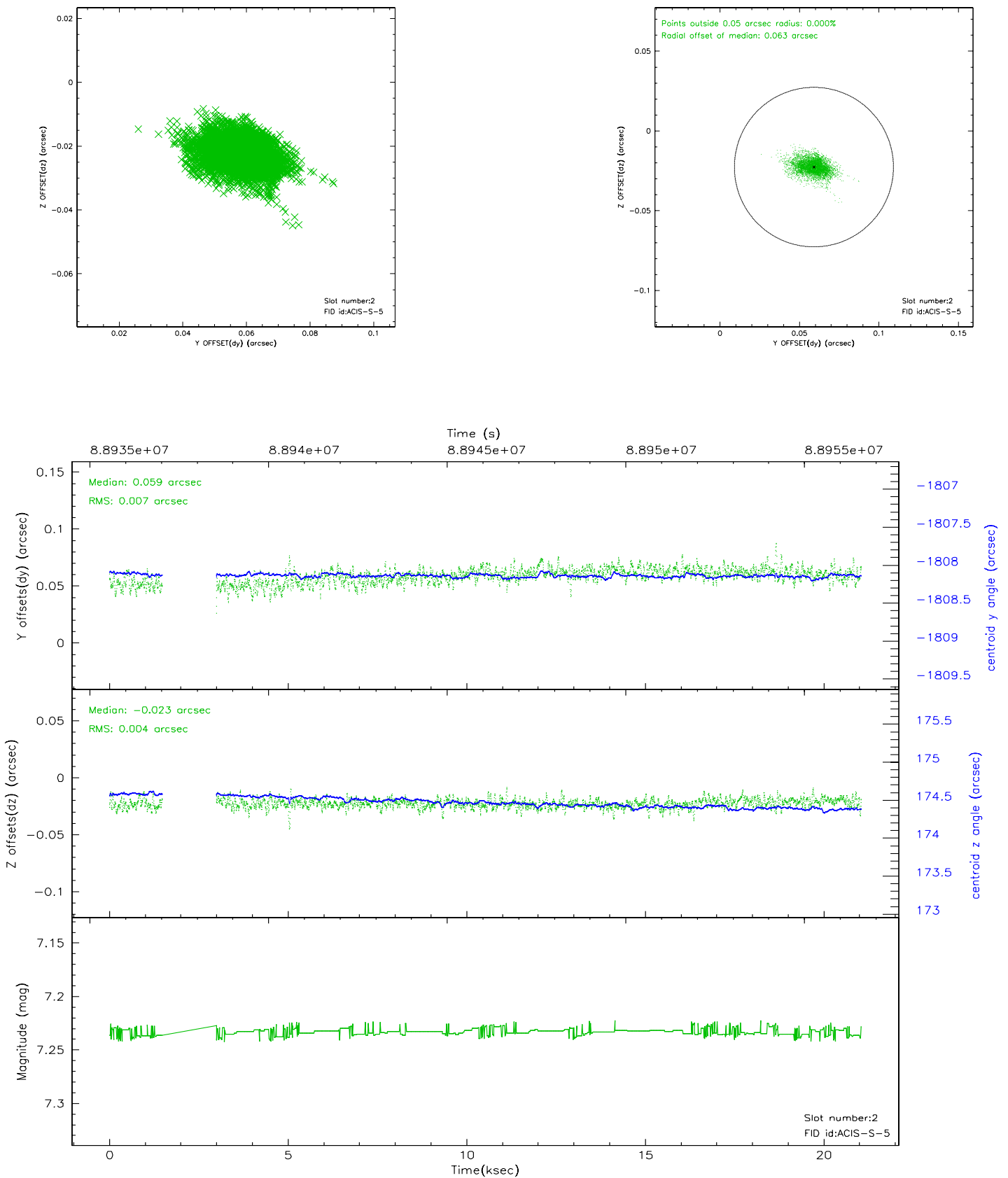
2.5.1 Slot 0



2.5.2 Slot 1

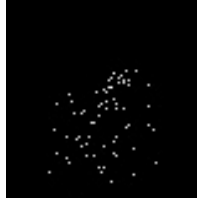


2.5.3 Slot 2



3 Point Sources

3.46 arcmin



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2007.08.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 19.536 |

A.2 Comments

Aspect solution good despite gap in the data of ~5500 VCDUs near the start of the observation.