

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 711 - L2 Version 001
Chandra X-Ray Center

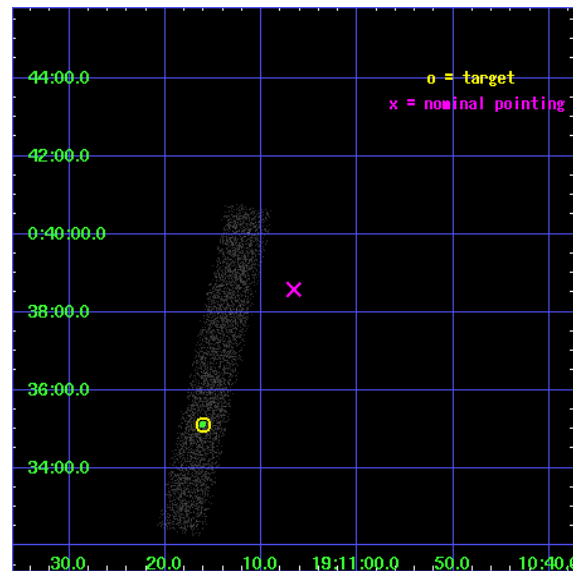
L2 Processing Date : Nov 14 2006

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1 Front

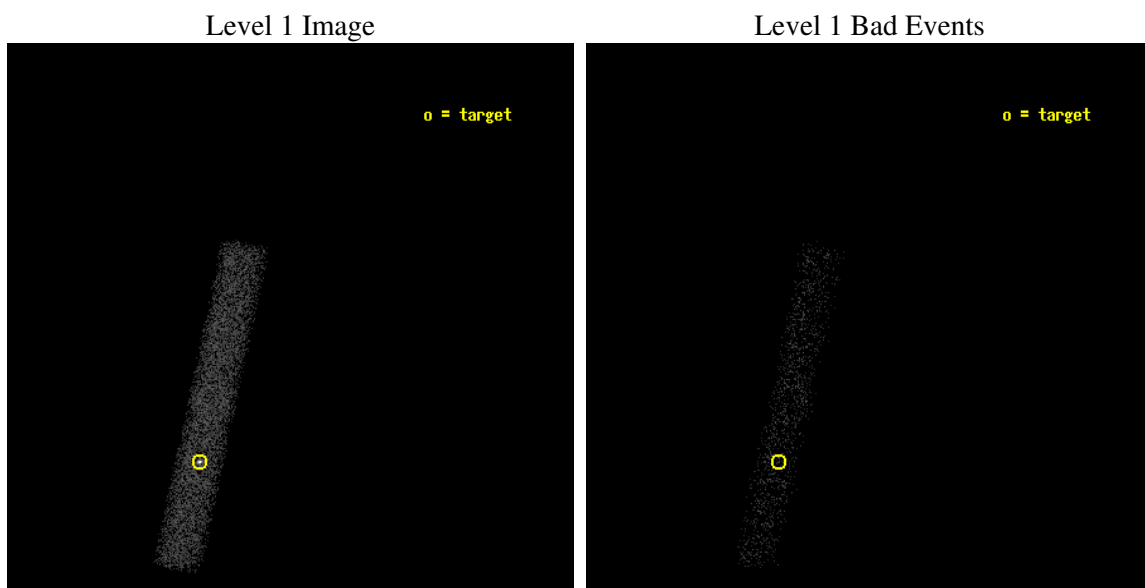
| | |
|----------|---|
| seq_num | 400078 |
| obs_id | 711 |
| title | TEMPORAL EVOLUTION OF TRANSIENT TYPE I BURSTERS IN QUIESCENCE |
| observer | PROF. LARS BILDSTEN |
| object | AQL X-1 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 287.816667 |
| dec_targ | 0.585111 |
| ra_nom | 287.77758454835 |
| dec_nom | 0.64286236139867 |
| roll_nom | 102.08447835117 |
| revision | 2 |
| ontime | 10193.959111914 |
| livetime | 9245.3828332252 |
| ontime7 | 10193.959111914 |
| l2events | 6340 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.9 |
| caldbver | 3.2.4 |
| date | 2006-11-14T18:03:43 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 9346.709000 |
| ontime | 10194.509415075 |
| ontime7 | 10194.509415075 |
| l1events | 12588 |

2.1.4 Events

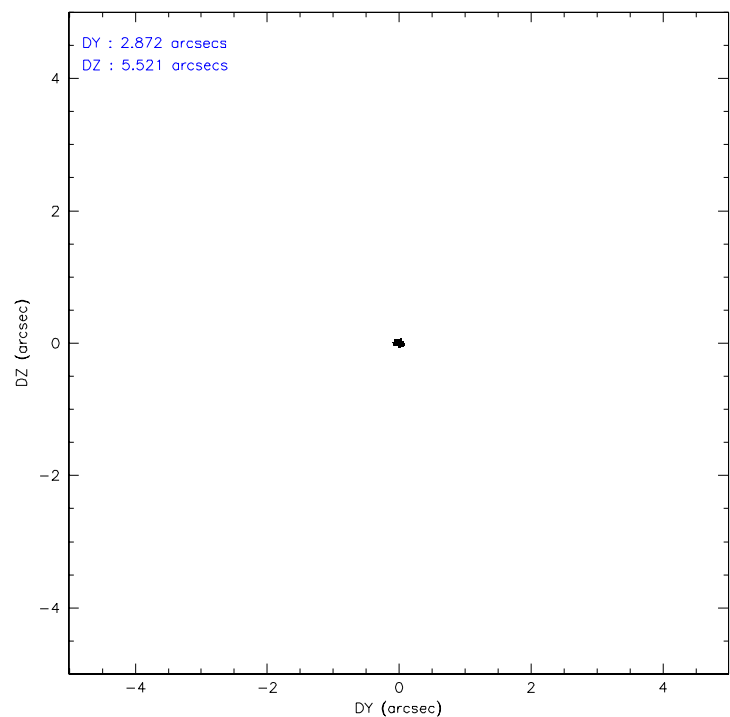
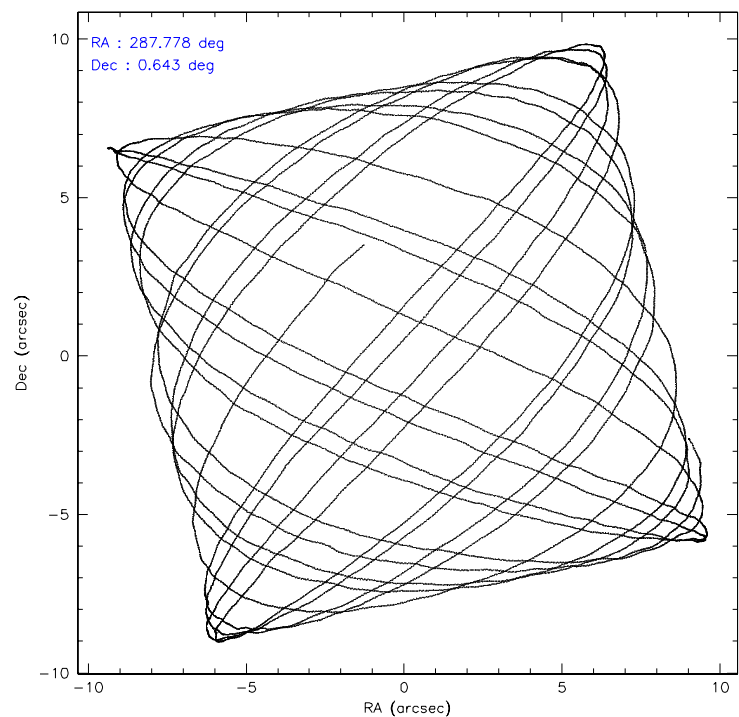
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 12588 |
| rejected events | 5981 |
| rejected % | 47% |

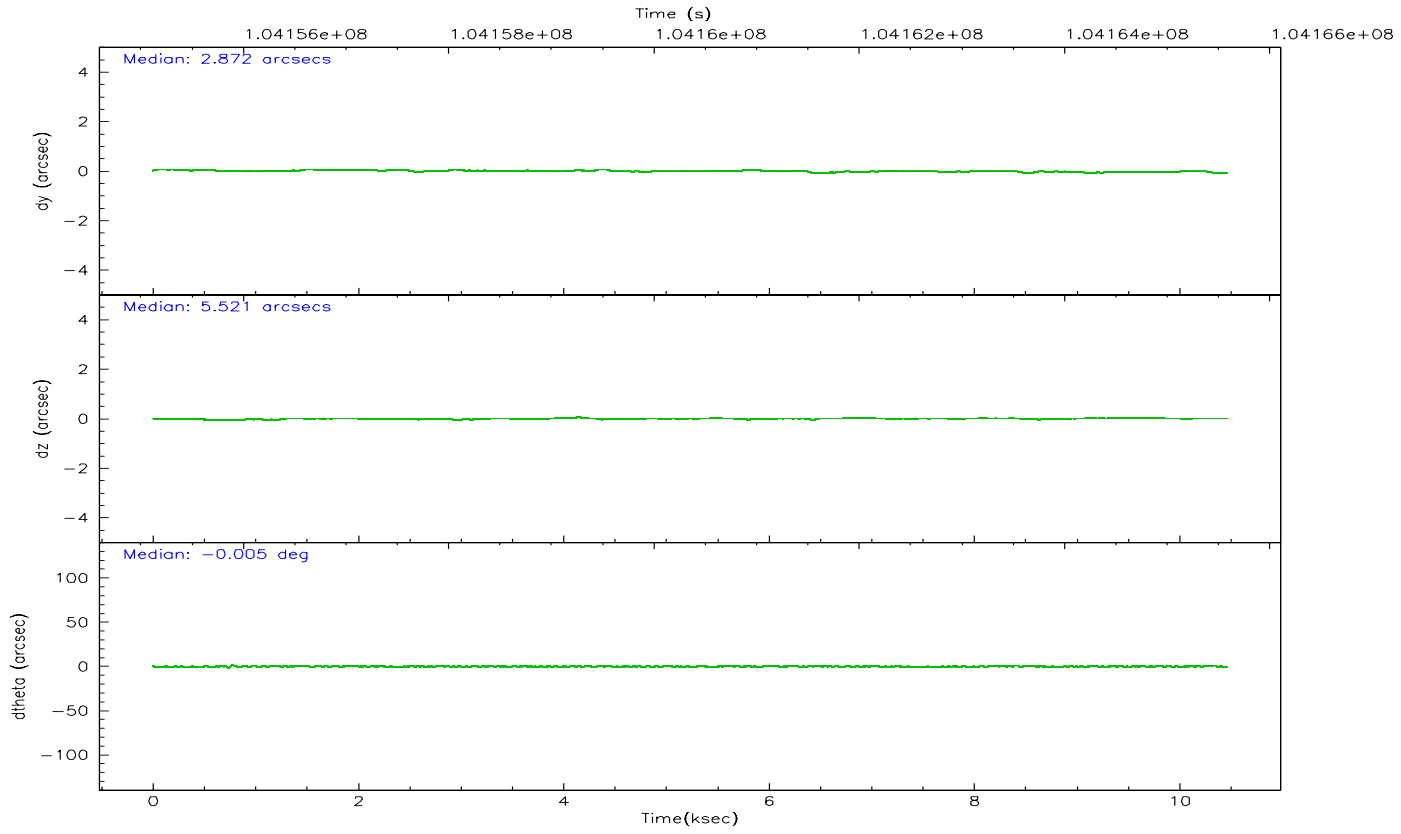
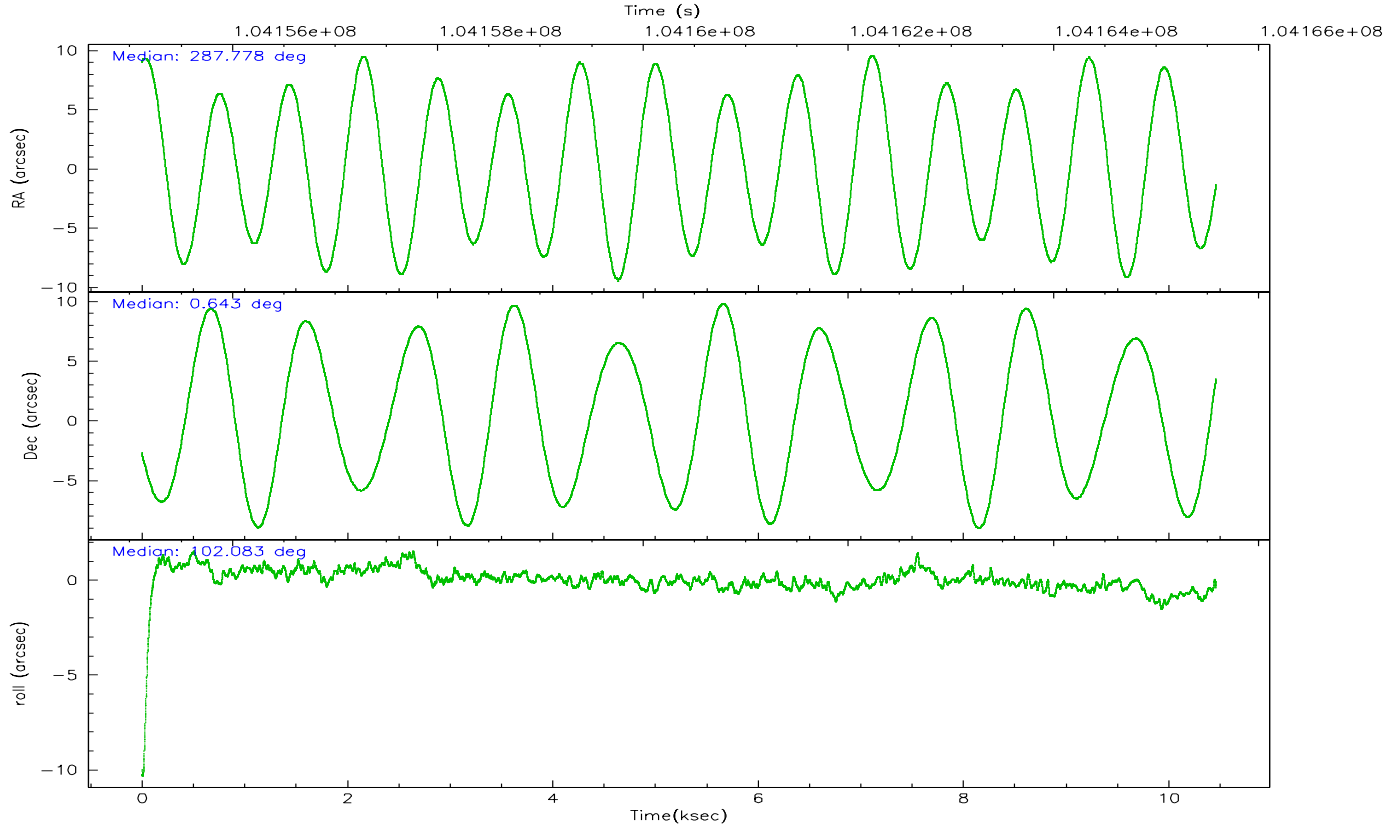
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 832 |
| | 6% |
| grade 1 events | 18 |
| | 0% |
| grade 2 events | 1529 |
| | 12% |
| grade 3 events | 659 |
| | 5% |
| grade 4 events | 657 |
| | 5% |
| grade 5 events | 634 |
| | 5% |
| grade 6 events | 2930 |
| | 23% |
| grade 7 events | 5329 |
| | 42% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-7 | ACIS-7 | 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 | 287.796093 | 287.7775845483501 | Subarray requested | CUSTOM | 1/8 |
| Pointing Dec | 0.622834 | 0.6428623613986688 | Subarray start row | 650 | 650 |
| Pointing Roll | 101.927646 | 102.0844783511715 | 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 | 0.400000 | 0.4 |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 104156235.184000 | 104154812.32876 | | | |
| Observation start date | 2001-04-20T12:16:11 | 2001-04-20T11:53:32 | | | |
| Observation end time | 104165582.184000 | 104165896.16669 | | | |
| Observation end date | 2001-04-20T14:51:58 | 2001-04-20T14:58:16 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



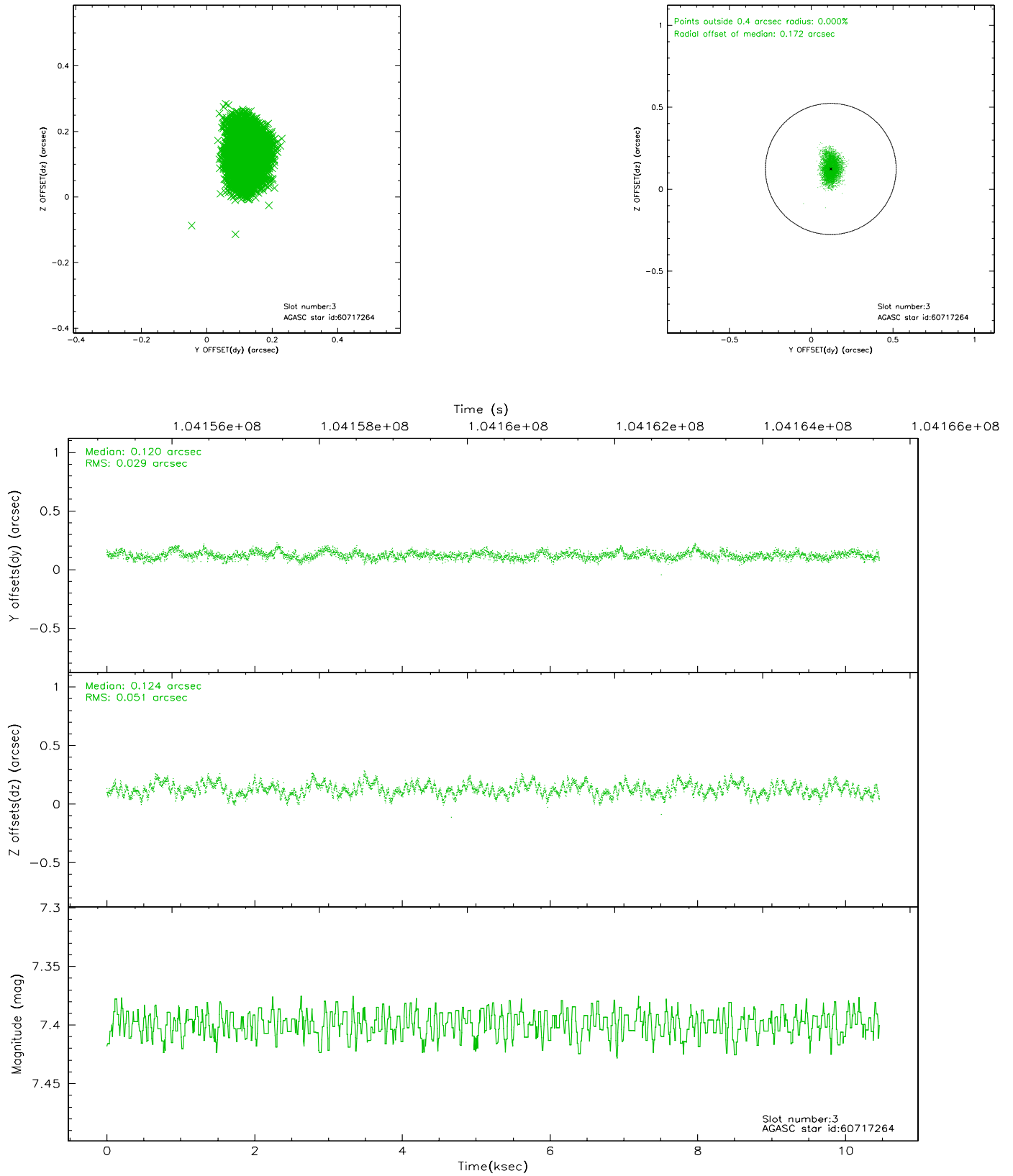


Slot Statistics

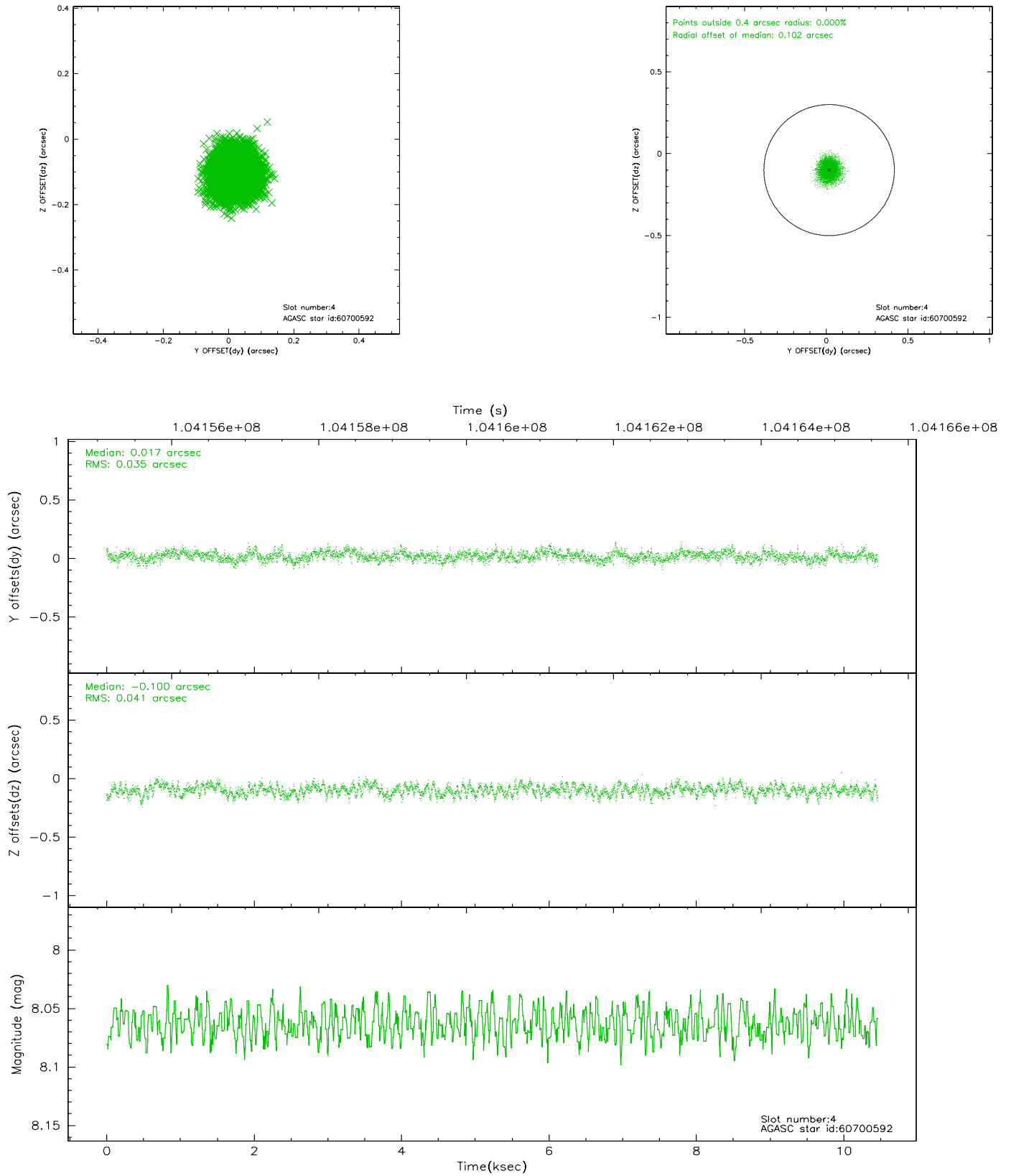
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|------------|----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 2553 | -0.015 | 0.033 | 0.007 | 0.011 | 0.000000 | 0.000000 | -755.48 | -1726.64 |
| 1 | FID | ACIS-S-4 | 7.20 | 2553 | -0.086 | -0.001 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2157.45 | 181.37 |
| 2 | FID | ACIS-S-5 | 7.24 | 2553 | 0.070 | -0.022 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1807.64 | 175.49 |
| 3 | GUIDE | 60717264 | 7.40 | 5104 | 0.120 | 0.124 | 0.062 | 0.104 | 288.494203 | 0.125541 | -2271.10 | -2089.15 |
| 4 | GUIDE | 60700592 | 8.06 | 5104 | 0.017 | -0.100 | 0.058 | 0.091 | 287.530354 | 0.932002 | 1285.96 | 705.23 |
| 5 | GUIDE | 60706688 | 8.71 | 5103 | 0.051 | -0.105 | 0.074 | 0.119 | 287.637938 | 0.689635 | 352.97 | 507.20 |
| 6 | GUIDE | 60698176 | 8.87 | 5105 | -0.241 | -0.000 | 0.080 | 0.128 | 287.425571 | 1.234708 | 2430.24 | 849.63 |
| 7 | GUIDE | 60705928 | 8.98 | 5103 | 0.043 | 0.088 | 0.154 | 0.229 | 287.833535 | 0.715711 | 299.53 | -200.89 |

2.4 Star Slots

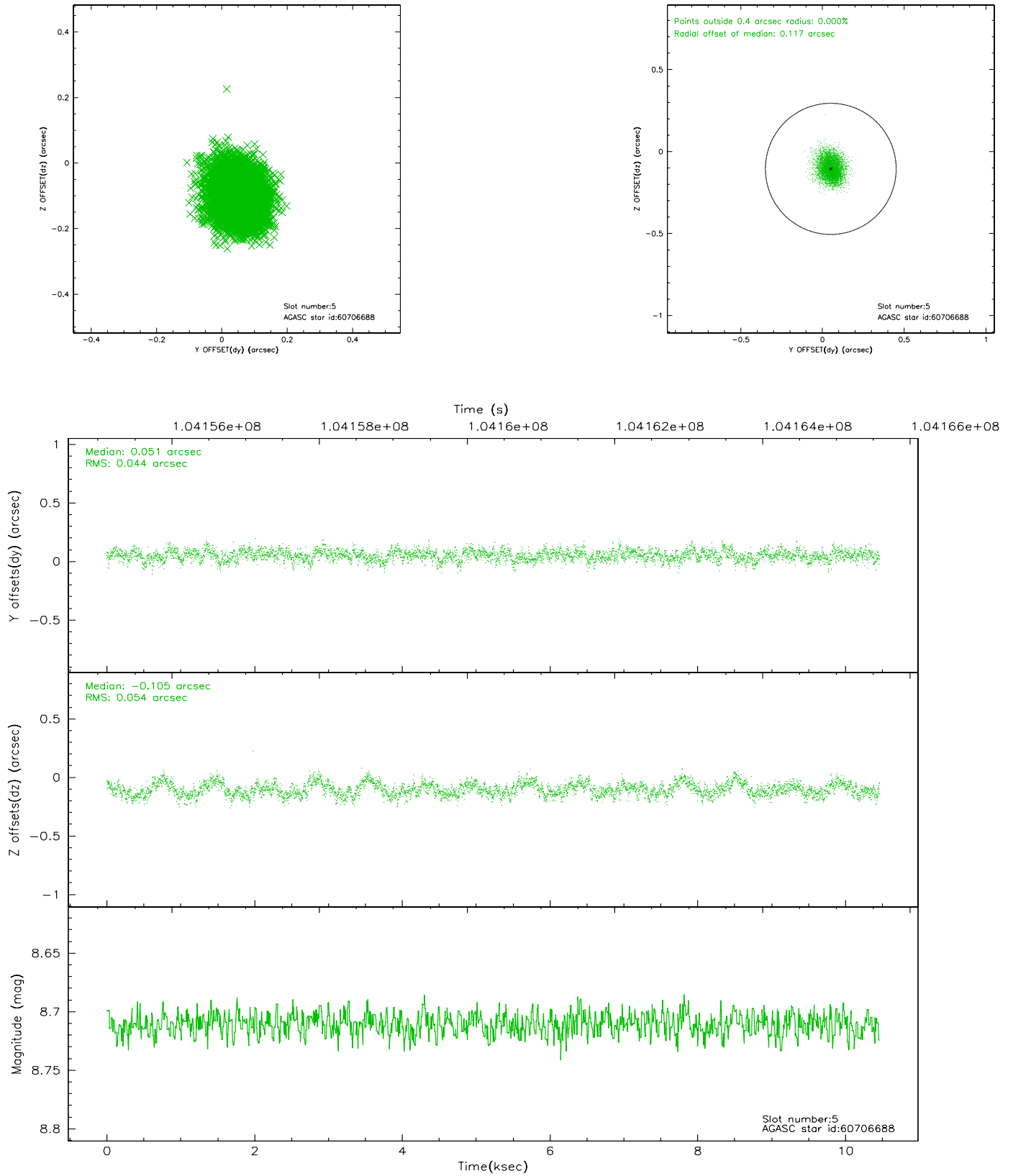
2.4.1 Slot 3



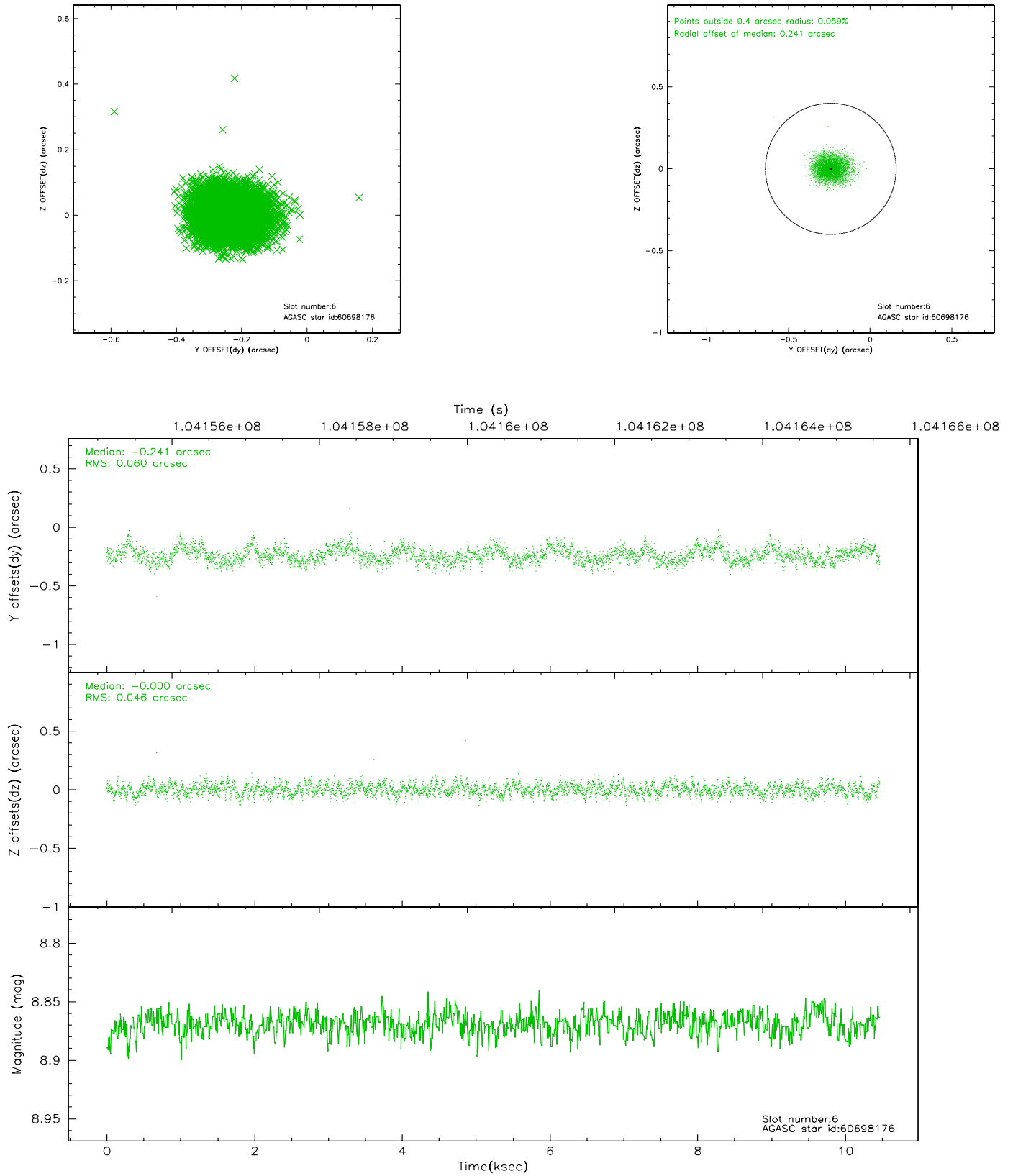
2.4.2 Slot 4



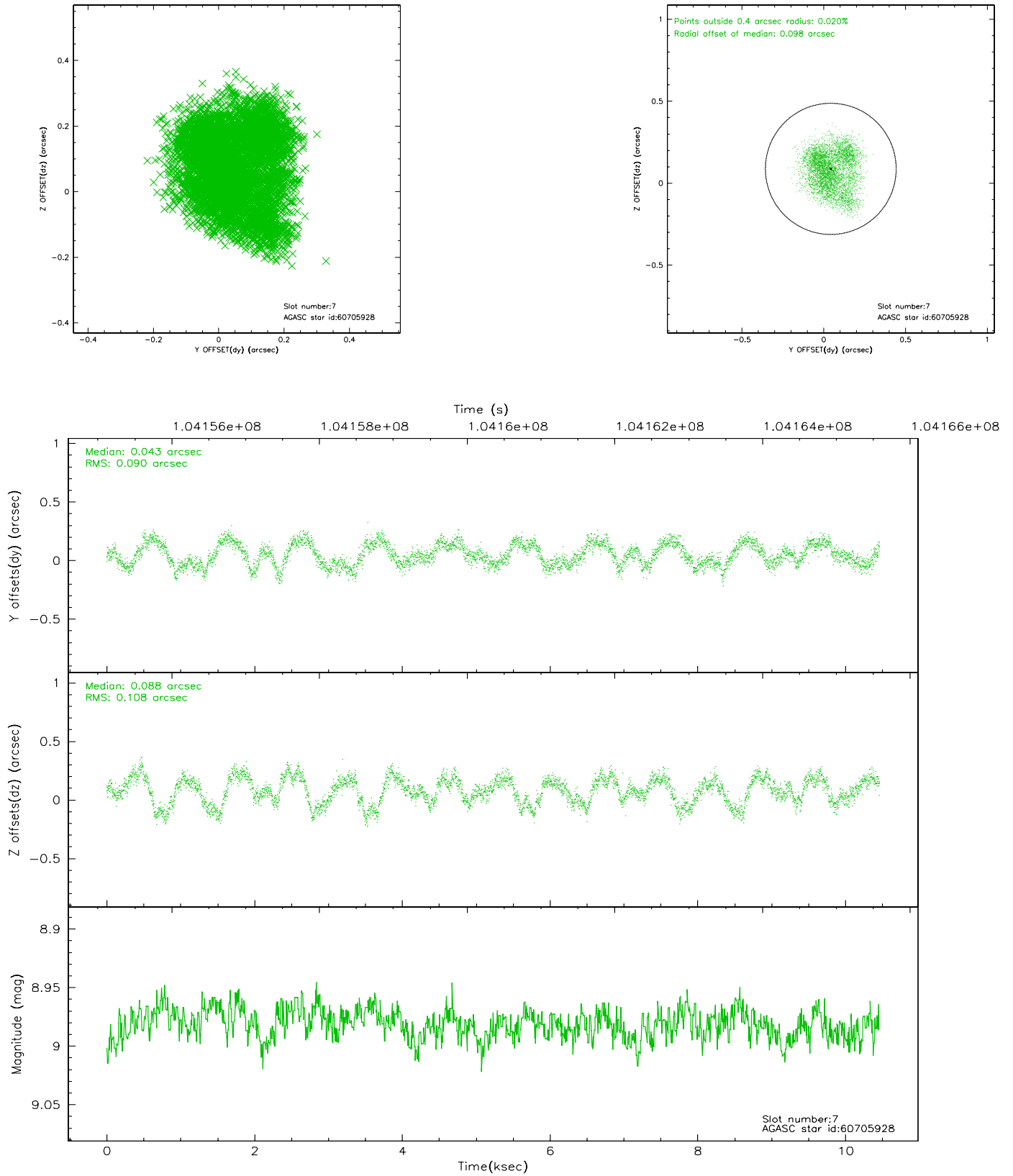
2.4.3 Slot 5



2.4.4 Slot 6

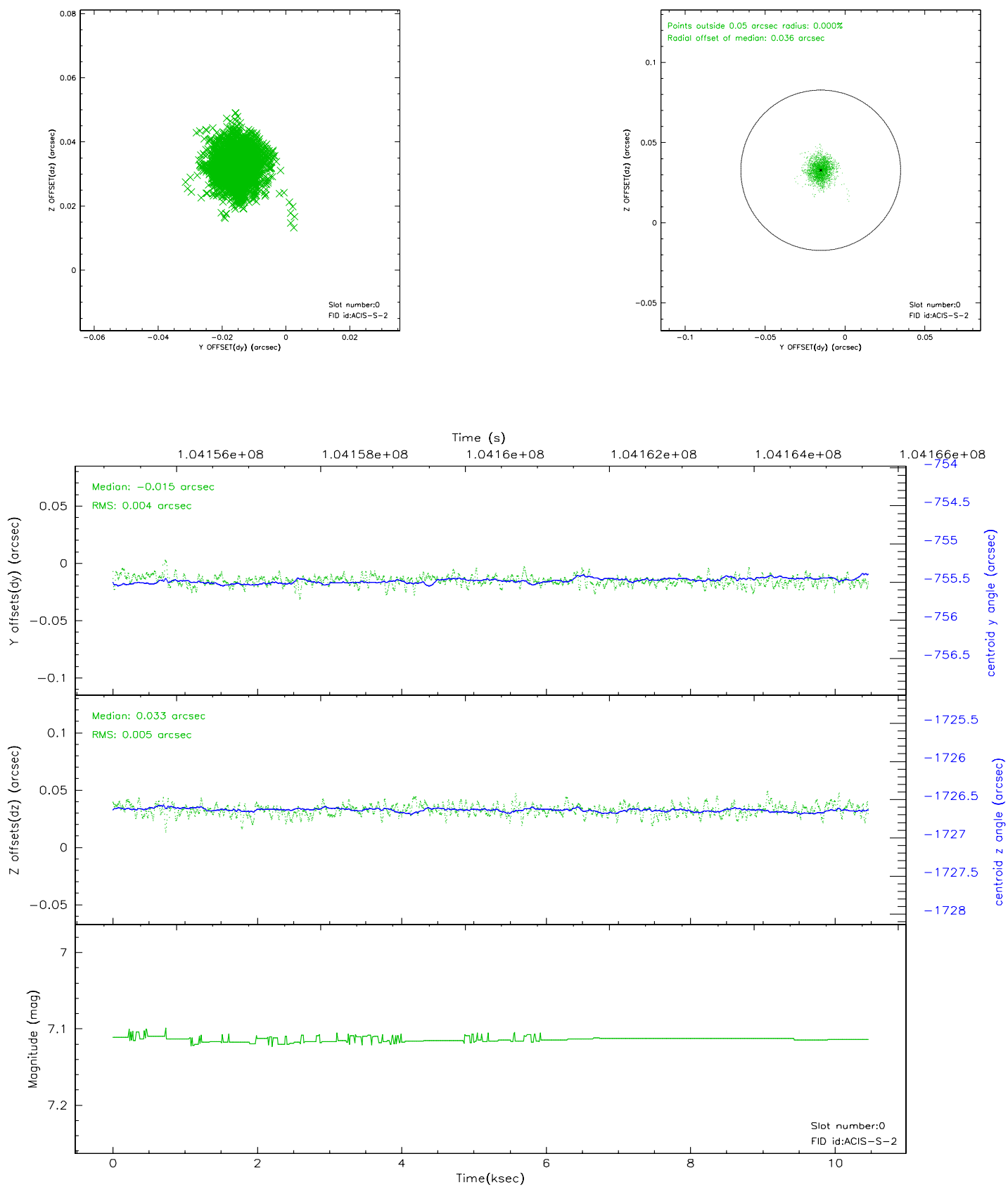


2.4.5 Slot 7

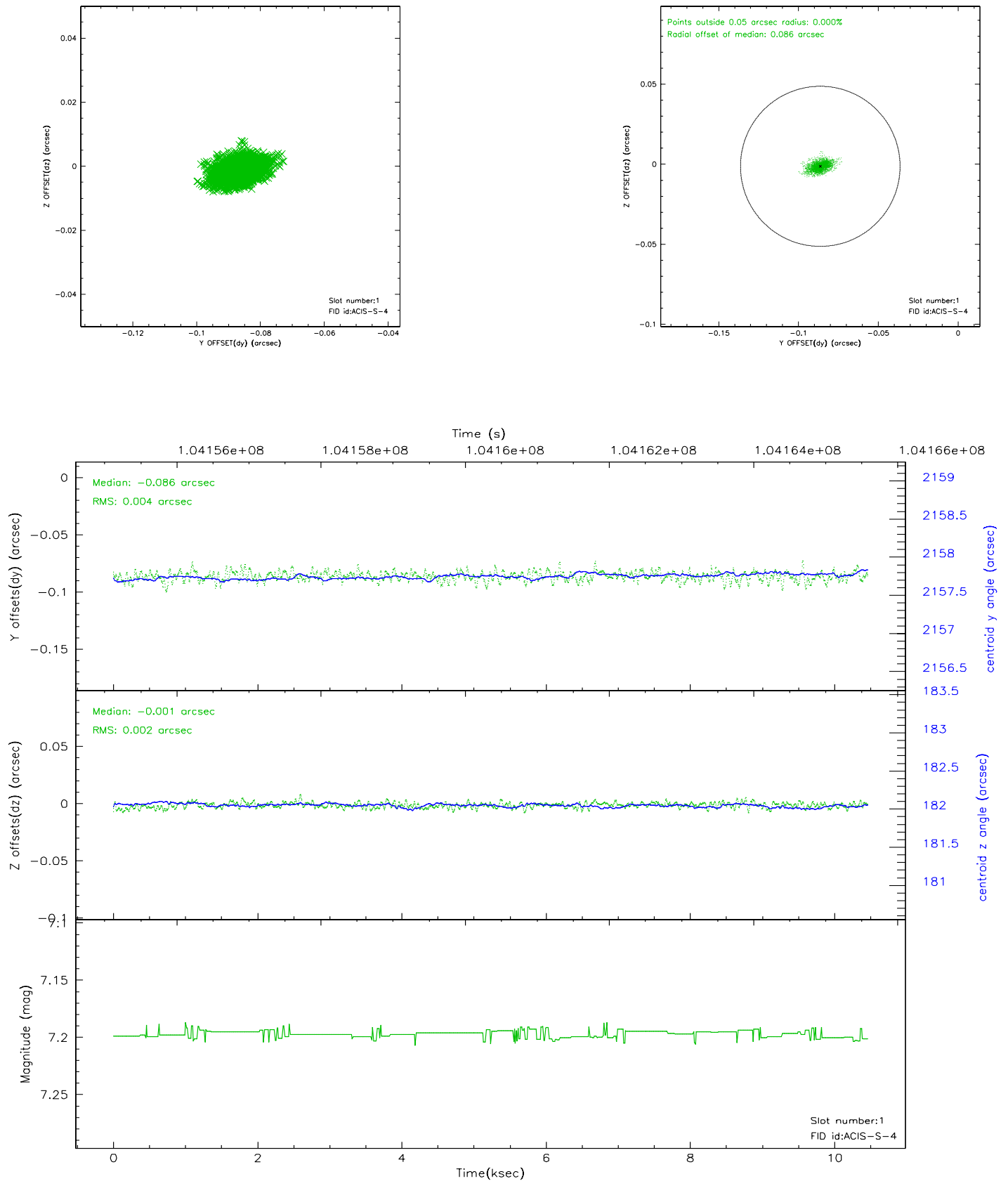


2.5 FID Slots

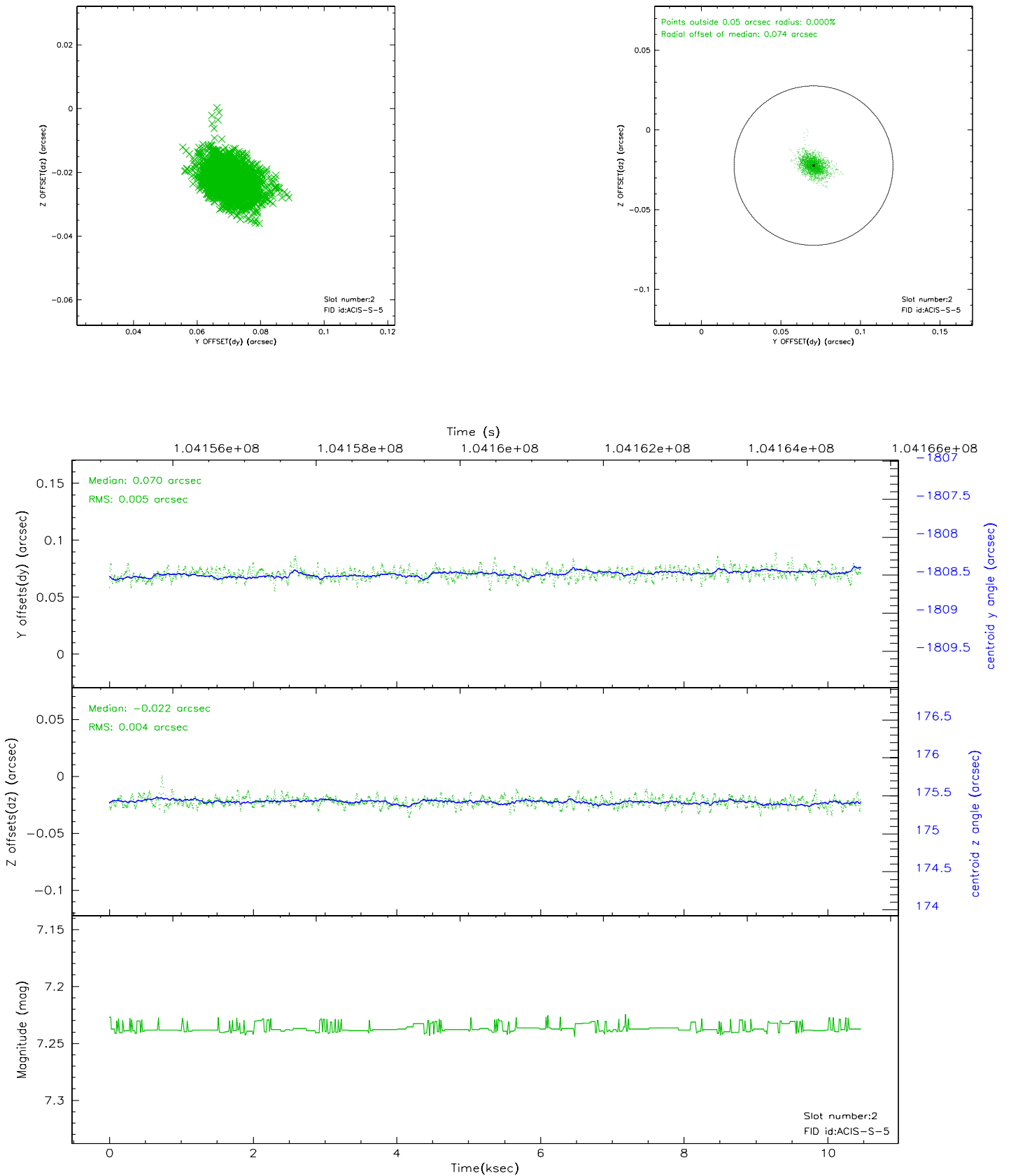
2.5.1 Slot 0



2.5.2 Slot 1

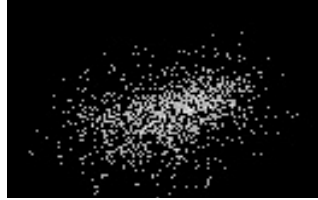


2.5.3 Slot 2



3 Point Sources

4.19 arcmin



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.11.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.194 |

A.2 Comments

Monitor constraint met.