

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 1772 - L2 Version 7
Chandra X-Ray Center

L2 Processing Date : Sep 5 2012

See axaff01772N004_VV001_vvref2.pdf for the full report

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| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.09.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.507 |

Comments

The focal-plane temperature was set to a temperature of about -109.2 C during this observation and others in the interval from September 17, 1999 to January 29, 2000. The current reprocessing of the data applies no charge-transfer inefficiency (CTI) adjustment to the data because the ACIS CTI adjustment has not been calibrated at this temperature. The CTI adjustment is calibrated for data taken from January 30, 2000 to the present, when the focal-plane temperature is set to -119.7 C. However, if the observation includes one or both back-illuminated CCDs ACIS-S1 and ACIS-S3, then a time-dependent gain adjustment is applied to the data for these CCDs. The ACIS spectral response calibration is less accurate at temperatures of about -109.2 C than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (i.e. fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response (e.g. those interested in imaging or timing analyses) should not notice an effect.

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The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

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| seq_num | 590198 | Sequence number |
| obs_id | 1772 | Observation id |
| title | HRC RESPONSE TO CONTINUUM SOURCE. | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | G21.5-0.9 [Chip I1, T=110, Offsets=-7,0,-1] | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 278.389583 | Observer's specified target RA [deg] |
| dec_targ | -10.568528 | Observer's specified target Dec [deg] |
| ra_nom | 278.27920664508 | Nominal RA [deg] |
| dec_nom | -10.622598373756 | Nominal Dec [deg] |
| roll_nom | 207.56930029058 | Nominal Roll [deg] |
| revision | 7 | Processing version of data |
| ontime | 7506.589440763 | Sum of GTIs [s] |
| livetime | 7411.5364853385 | Livetime [s] |
| ontime0 | 7506.5484007597 | Sum of GTIs [s] |
| ontime1 | 7506.589440763 | Sum of GTIs [s] |
| ontime2 | 7506.6304807663 | Sum of GTIs [s] |
| ontime3 | 7506.6715207547 | Sum of GTIs [s] |
| ontime6 | 7506.7536007613 | Sum of GTIs [s] |
| ontime7 | 7506.712560758 | Sum of GTIs [s] |
| l2events | 63778 | Number of level 2 events |

