

V&V Summary Report

L2 ASCDS Version : 8.1.2

Observation 161 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 17 2009

See axaff00161N001_VV001_vvref2.pdf for the full report

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|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2010.03.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 9.76 |

Comments

Off-axis effective area measurements in chip I2.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

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|----------|--|---|
| seq_num | 590029 | Sequence number |
| obs_id | 161 | Observation id |
| title | ACIS CHIP RESPONSE TO A CONTINUUM SOURCE | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | G21.5-0.9 [Chip I2, T=100, Offsets=5,3,0 Off-ax] | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 278.389583 | Observer's specified target RA |
| dec_targ | -10.568528 | Observer's specified target Dec |
| ra_nom | 278.33616572951 | Nominal RA |
| dec_nom | -10.484744431115 | Nominal Dec |
| roll_nom | 264.46411556315 | Nominal Roll |
| revision | 3 | Processing version of data |
| ontime | 9756.8000090867 | Sum of GTIs [s] |
| livetime | 9633.253532532 | Livetime [s] |
| ontime0 | 9756.8000090867 | Sum of GTIs [s] |
| ontime1 | 9756.8000090867 | Sum of GTIs [s] |
| ontime2 | 9756.8000090867 | Sum of GTIs [s] |
| ontime3 | 9756.8000090867 | Sum of GTIs [s] |
| ontime6 | 9756.8000090867 | Sum of GTIs [s] |
| ontime7 | 9756.8000090867 | Sum of GTIs [s] |
| l2events | 109563 | Number of level 2 events |

