

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 675 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Sep 10 2012

See axaff00675N004\_VV001\_vvref2.pdf for the full report

|                            |             |
|----------------------------|-------------|
| V&V Scientist              | Joy Nichols |
| V&V Date (YYYY-MM-DD)      | 2012.09.13  |
| V&V Edition                | 1           |
| V&V Disposition and Status | OK          |
| V&V Charge Time            | 20.03       |

## Comments

Charge time for this ObsId remains at original value of 20.03 ks, although with the current processing the charge time would have been 20.13 ksec.===== Two sources approximately 2 arcsec apart. Standard data processing software did not correctly locate the zeroth order for either source, but found something halfway between the two sources. Findzero also did not work because there are 2 readout streaks, one for each source, so the solution was not unique. The star with the greater number of counts in the Level 2 data (ra=21:29:58.30, dec=+12:10:02.75) was selected for the spectral extraction, with the sky coordinates determined by eye. Both sources are piled up, so the selected star may not be brighter in actual x-ray flux. Manual intervention was used to input the determined sky coordinates (x=4098.97, y=4068.31) into the \*src1a.fits file table. Note that these corrected coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.=====The extracted spectral data in this processing have wavelength assignments appropriate for the star selected as the position of the zeroth order. However, the two stars are too close together for ACIS to differentiate between the energies of the events for these two objects. The two stars are also aligned close to the dispersion direction. The spectral data extracted is the combined counts of the two sources and the user should take particular care in

the analysis.

|          |  |   |
|----------|--|---|
| seq_num  | 400042   | Sequence number                             |
| obs_id   | 675  | Observation id                              |
| title    | SOFT X-RAY DIAGNOSTICS OF A POSSIBLE ADC<br>IN X2127+119 | Proposal tit                                |
| observer | Dr Nicholas White  | Principal investigator                      |
| object   | X2127+119  | Source name                                 |
| dtcycle  | 0  | &#160                                       |
| cycle    | P  | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 322.492917   | Observer's specified target RA [deg]        |
| dec_targ | 12.169167  | Observer's specified target Dec [deg]       |
| ra_nom   | 322.49330392246  | Nominal RA [deg]                            |
| dec_nom  | 12.171292113468  | Nominal Dec [deg]                           |
| roll_nom | 205.37226163368  | Nominal Roll [deg]                          |
| revision | 5  | Processing version of data                  |
| ontime   | 20130.0  | Sum of GTIs [s]                             |
| livetime | 19804.883040015  | Livetime [s]                                |
| ontime4  | 20130.0  | Sum of GTIs [s]                             |
| ontime5  | 20130.0  | Sum of GTIs [s]                             |
| ontime6  | 20130.0  | Sum of GTIs [s]                             |
| ontime7  | 20130.0  | Sum of GTIs [s]                             |
| ontime8  | 20130.0  | Sum of GTIs [s]                             |
| ontime9  | 20127.459009841  | Sum of GTIs [s]                             |
| l2events | 264032   | Number of level 2 events                    |

