

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 241 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Aug 30 2012

See axaff00241N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.531

Comments

The source is extended, making analysis of the spectral data more complex. The position of an event in the focal plane is not a unique function of the position within the source and the photon energy for the case of an extended source. The consequence is that there is a degradation of the apparent spectral resolution.

However, the jet is perpendicular to the dispersion direction, so it should be possible to separate the spectra for different regions of the nucleus and knots in the jets.

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WARNING: there are no standard ciao tools for analysis of grating spectra from extended sources. The shape of an emission 'line' will be the shape of the zero order spatial structure convolved with the instrumental LSF. Grating extractions can be used, but need to be combined with custom spatial-spectral analysis, since wavelength is multi-valued at any particular diffraction angle.

seq_num	600001	Sequence number
obs_id	241	Observation id
title	THE DETAILED X-RAY SPECTRA OF ELLIPTICAL GALAXIES	Proposal title
observer	Prof Claude Canizares	Principal investigator
object	NGC 4486	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.705417	Observer's specified target RA [deg]
dec_targ	12.391111	Observer's specified target Dec [deg]
ra_nom	187.7040715861	Nominal RA [deg]
dec_nom	12.392817336928	Nominal Dec [deg]
roll_nom	252.28820642061	Nominal Roll [deg]
revision	4	Processing version of data
ontime	38530.4334272	Sum of GTIs [s]
livetime	38042.537878903	Livetime [s]
ontime4	38527.233487055	Sum of GTIs [s]
ontime5	38530.392387196	Sum of GTIs [s]
ontime6	38527.110396981	Sum of GTIs [s]
ontime7	38530.4334272	Sum of GTIs [s]
ontime8	38527.069356978	Sum of GTIs [s]
ontime9	38530.269267201	Sum of GTIs [s]
l2events	949939	Number of level 2 events

