

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 1509 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Aug 24 2012

See axaff01509N002-VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.893

## Comments

Standard software processing technique using the tool `tgdetect` failed to determine an accurate position for the zeroth order for this observation. The source is extended and asymmetric. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction. For grating analysis of localized X-ray emission within the extended emission, the investigator will need to extract one or more dispersed spectra using user-defined zeroth order positions for all positions of interest.

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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	800018	Sequence number
obs_id	1509	Observation id
title	HIGH RESOLUTION X-RAY SPECTRA OF CLUSTER COOLING FLOWS	Proposal ti
observer	Prof Claude Canizares	Principal investigator
object	PKS 0745-191	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	116.880417	Observer's specified target RA [deg]
dec_targ	-19.294444	Observer's specified target Dec [deg]
ra_nom	116.88043026951	Nominal RA [deg]
dec_nom	-19.299210886545	Nominal Dec [deg]
roll_nom	293.00191556984	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39900.835533619	Sum of GTIs [s]
livetime	39395.587128694	Livetime [s]
ontime4	39910.599574015	Sum of GTIs [s]
ontime5	39907.277251691	Sum of GTIs [s]
ontime6	39907.236311421	Sum of GTIs [s]
ontime7	39900.835533619	Sum of GTIs [s]
ontime8	39907.194374025	Sum of GTIs [s]
ontime9	39907.153334022	Sum of GTIs [s]
l2events	516091	Number of level 2 events

