

OYSTER CREEK NUCLEAR GENERATING STATION CHEMISTRY DEPARTMENT



Detector Name : DET01
Report Generated On : 4/25/09 2:29:35 PM
Spectral Data File Name : C:\PCNT2K\CAMFILES\3LLIQMAR\800239.CNF
:
Sample Title : 3-L Liq Mar'lli
Sample Description : CSTG
User ID : Bob
Sample Type : 8
Sample Geometry : 3-L Marinelli
Peak Locate Threshold : 3.00
Peak Locate Range (in channels) : 1 - 4096
Peak Area Range (in channels) : 100 - 4096
Identification Energy Tolerance : 1.000 keV
Sample Size : 1000.00 cc
Sample Taken On : 4/25/09 1:35:00 PM
Acquisition Started : 4/25/09 2:12:43 PM
Decay Time : 3.77E+001 Minutes
Live Time : 1000.0 Seconds
Real Time : 1005.5 Seconds
Dead Time : 0.55 %



APR 28 2009

Energy Calibration Used Done On : 1/8/09
Efficiency Calibration Used Done On : 8/5/06

 ***** BACKGROUND SUBTRACT REPORT *****

Detector Name: DET01
 Sample Title: 3-L Liq Mar'lli
 Peak Analysis Performed on: 4/25/09 2:29:39 PM

Peak No.	Energy (keV)	Original Area	Orig. Area Uncert.	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	249.85	5.57E+001	8.34			5.57E+001	8.34E+000

M = First peak in a multiplet region
 m = Other peak in a multiplet region
 F = Fitted singlet

Errors quoted at 1.000 sigma

 ***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****

Sample Title: 3-L Liq Mar'lli
 Nuclide Library Used: C:\GENIE2K\CAMFILES\ANL002.NLB

..... IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/cc)	Activity Uncertainty
XE-135	0.967	249.79*	89.90	2.59E-007	4.02E-008
		608.18	2.89		

* = Energy line found in the spectrum.

@ = Energy line not used for Weighted Mean Activity

Energy Tolerance : 1.000 keV

Nuclide confidence index threshold = 0.30

Errors quoted at 1.000 sigma

 ***** INTERFERENCE CORRECTED REPORT *****

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (uCi/cc)	Wt mean Activity Uncertainty
XE-135	0.967	2.59E-007	4.02E-008
Total Activity		2.59E-007	

? = nuclide is part of an undetermined solution
 X = nuclide rejected by the interference analysis
 @ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 1.000 sigma

***** UNIDENTIFIED PEAKS *****

Peak Locate Performed on: 4/25/09 2:29:39 PM
 Peak Locate From Channel: 100
 Peak Locate To Channel: 4096

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
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All peaks were identified.

M = First peak in a multiplet region
 m = Other peak in a multiplet region
 F = Fitted singlet

Errors quoted at 1.000 sigma