
* GAMMA SPECTRUM ANALYSIS *

OYSTER CREEK NUCLEAR GENERATING STATION CHEMISTRY DEPARTMENT

ector Name : DET01
ort Generated On : 5/20/09 3:55:12 AM
stral Data File Name : C:\PCNT2K\CAMFILES\47MMFILT\1100578.CNF
:
ole Title : 47-mm Filt Petri
ole Description : cst sample for rp (bob h)
: ID : tre
ole Type : 11
ole Geometry : 47 mm Filt Petri
: Locate Threshold : 3.00
: Locate Range (in channels) : 1 - 4096
: Area Range (in channels) : 100 - 4096
ntification Energy Tolerance : 1.000 keV
ole Size : 0.05 g
ole Taken On : 5/14/09 9:00:40 AM
osition Started : 5/20/09 3:37:40 AM
ay Time : 8.32E+003 Minutes
e Time : 1000.0 Seconds
l Time : 1049.7 Seconds
d Time : 4.73 %

Energy Calibration Used Done On : 1/8/09
Efficiency Calibration Used Done On : 8/4/06

AHO

* BACKGROUND SUBTRACT REPORT *

Detector Name: DET01

Sample Title: 47-mm Filt Petri

Peak Analysis Performed on: 5/20/09 3:55:15 AM

Peak No.	Energy (keV)	Original Area	Orig. Area Uncert.	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	310.36	6.91E+002	134.77			6.91E+002	1.35E+002
2	834.40	3.03E+004	244.40			3.03E+004	2.44E+002
3	1172.75	9.18E+004	327.42			9.18E+004	3.27E+002
4	1332.07	8.07E+004	293.20			8.07E+004	2.93E+002

First peak in a multiplet region

Other peak in a multiplet region

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: 47-mm Filt Petri
 Nuclide Library Used: C:\GENIE2K\CAMFILES\ANL002.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/g)	Activity Uncertainty
TN-54	0.971	834.83*	99.97	1.31E+000	3.99E-002
CO-60	0.970	1173.22*	100.00	5.67E+000	1.47E-001
		1332.49*	100.00	5.71E+000	1.66E-001

* = 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/g)	Wt mean Activity Uncertainty
MN-54	0.971	1.31E+000	3.99E-002
CO-60	0.970	5.69E+000	1.10E-001
Total Activity		7.00E+000	

? = 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: 5/20/09 3:55:15 AM
 Peak Locate From Channel: 100
 Peak Locate To Channel: 4096

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
1	310.36	6.91E-001	19.51

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

Errors quoted at 1.000 sigma