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

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Detector Name: DET01
Sample Title: 1-L Solid Releas
Peak Analysis Performed on: 4/18/09 12:46:34 PM

Peak Subtracted No.	Energy (keV)	Original Area	Orig. Uncert.	Area Background	Ambient Uncert.	Backgr. Uncert.	Subtracted Area
1	351.83	4.81E+001	12.96				4.81E+001
1.30E+001							
2	609.13	3.43E+001	9.20				3.43E+001
9.20E+000							
3	660.87	2.75E+001	9.75				2.75E+001
9.75E+000							
4	910.94	2.80E+001	10.37				2.80E+001
1.04E+001							
5	1172.86	1.73E+002	15.06				1.73E+002
1.51E+001							
6	1332.10	1.76E+002	14.22				1.76E+002
1.42E+001							
7	1461.02	4.05E+001	7.20				4.05E+001
7.20E+000							

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

Errors quoted at 1.000 sigma

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

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Detector Name: DET01
Sample Geometry: 1-L Marinelli
Sample Title: 1-L Solid Releas
Nuclide Library Used: C:\GENIE2K\CAMFILES\AnSolMDA.NLB

Activity (uCi/gram)	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (uCi/gram)	Nuclide MDA (uCi/gram)
2.60E-007	CS-134	563.23	8.38	1.08E-006	1.02E-007
3.02E-007		569.32	15.43	4.99E-007	-
2.73E-009		604.70	97.60	1.02E-007	-
2.57E-008		795.84	85.40	1.59E-007	
3.21E-007		801.93	8.73	1.37E-006	
0.00E+000		1365.15	3.04	4.99E-007	
+ 9.39E-008	CS-137	661.65*	85.12	1.40E-007	1.40E-007

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay
correction

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 ***** 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 *****

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Sample Title: 1-L Solid Releas
 Nuclide Library Used: C:\GENIE2K\CAMFILES\AnSolMDA.NLB

..... IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/gram)	Activity Uncertainty
K-40	0.993	1460.81*	10.67	2.26E-006	4.05E-007
CO-60	0.978	1173.22*	100.00	8.46E-007	7.53E-008
		1332.49*	100.00	9.62E-007	8.03E-008
CS-137	0.907	661.65*	85.12	9.39E-008	3.33E-008
BI-211	0.558	351.10*	12.20	6.06E-007	1.64E-007
		404.80	4.10		
BI-214	0.659	609.31*	46.30	1.99E-007	5.35E-008
		934.06	3.21		
		1764.49	15.80		

* = 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

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***** INTERFERENCE CORRECTED REPORT

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (uCi/gram)	Wt mean Activity Uncertainty
K-40	0.993	2.26E-006	4.05E-007
CO-60	0.978	9.00E-007	5.49E-008
CS-137	0.907	9.39E-008	3.33E-008
BI-211	0.558	6.06E-007	1.64E-007
BI-214	0.659	1.99E-007	5.35E-008

Total Activity 4.05E-006

? = 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: 4/18/09 12:46:34 PM
Peak Locate From Channel: 100
Peak Locate To Channel: 4096

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
4	910.94	1.02E-002	36.98

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

Errors quoted at 1.000 sigma