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\*\*\*\*\* BACKGROUND SUBTRACT REPORT \*\*\*\*\*  
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Detector Name: DET02  
Sample Title: 1-L Solid Releas  
Peak Analysis Performed on: 4/19/09 9:24:15 AM

Peak Subtracted No. (keV) Uncert.	Energy (keV)	Original Area	Orig. Area Uncert.	Ambient Background	Backgr. Uncert.	Subtracted Area
1 3.71E+001	238.66	1.42E+002	37.12			1.42E+002
2 2.42E+001	351.83	9.00E+001	24.23			9.00E+001
3 2.19E+001	401.85	3.67E+001	21.94			3.67E+001
4 2.43E+001	583.17	1.01E+002	24.29			1.01E+002
5 1.68E+001	609.39	6.12E+001	16.83			6.12E+001
6 2.77E+001	661.66	1.32E+002	27.66			1.32E+002
7 5.31E+001	1173.56	2.52E+003	53.07			2.52E+003
8 4.86E+001	1332.91	2.26E+003	48.63			2.26E+003

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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NUCLIDE MDA REPORT  
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Detector Name: DET02  
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)
1.26E-007	CS-134	563.23	8.38	9.87E-007	8.74E-008
2.20E-007		569.32	15.43	4.65E-007	-
6.42E-009		604.70	97.60	8.74E-008	-
2.12E-008		795.84	85.40	1.42E-007	
2.42E-007		801.93	8.73	1.32E-006	-
4.73E-008		1365.15	3.04	1.65E-006	
1.72E-007	+ CS-137	661.65*	85.12	1.56E-007	1.56E-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
CO-60	0.976	1173.22*	100.00	4.68E-006	1.30E-007
		1332.49*	100.00	4.72E-006	1.39E-007
CS-137	1.000	661.65*	85.12	1.72E-007	3.62E-008
BI-211	0.556	351.10*	12.20	4.56E-007	1.23E-007
		404.80	4.10		
PB-212	0.674	87.20	6.30		
		89.80	1.75		
		238.63*	44.60	1.39E-007	3.65E-008
BI-214	0.660	300.09	3.41		
		609.31*	46.30	1.36E-007	3.75E-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
CO-60	0.976	4.70E-006	9.48E-008
CS-137	1.000	1.72E-007	3.62E-008
BI-211	0.556	4.56E-007	1.23E-007
PB-212	0.674	1.39E-007	3.65E-008
BI-214	0.660	1.36E-007	3.75E-008

Total Activity 5.60E-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: 4/19/09 9:24:15 AM  
 Peak Locate From Channel: 100  
 Peak Locate To Channel: 4096

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
3	401.85	7.80E-003	59.85
4	583.17	2.14E-002	24.15

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

Errors quoted at 1.000 sigma