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*********************************************************************
*****        G A M M A   S P E C T R U M   A N A L Y S I S        *****
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Filename: ERT01,C:\GENIE2K\CAMFILES\SMP-NFB-BAG #3-SLAG.CNF

Report Generated On              : 7/14/2017  12:35:04 PM

Sample Title                     : NFB-BAG #3-SLAG
Sample Description               : 450 cc Soil
Sample Identification            :
Sample Type                      :
Sample Geometry                  :

Peak Locate Threshold            :  3.00
Peak Locate Range (in channels)  :   100 -  8192
Peak Area Range (in channels)    :   100 -  8192
Identification Energy Tolerance  :    1.000 keV

Sample Size                      :  8.217E+002 GWET

Sample Taken On                  : 5/9/2017   12:00:00 PM
Acquisition Started              : 7/14/2017  10:30:43 AM

Live Time                        :     7200.0 seconds
Real Time                        :     7458.8 seconds

Dead Time                        :   3.47 %


          Energy Calibration Used Done On       : 5/10/2017
          Efficiency Calibration Used Done On   : 12/14/2016
          Efficiency ID                         : ERT0101
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****
***** P E A K A N A L Y S I S R E P O R T *****
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Detector Name: ERT01
Sample Title: NFB-BAG #3-SLAG
Peak Analysis Performed on: 7/14/2017 12:35:05 PM
Peak Analysis From Channel: 100
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
M	1	220-	236	225.30	56.19	0.68	5.05E+002	246.38	6.81E+004
m	2	220-	236	231.00	57.62	0.68	8.03E+002	391.73	7.64E+004
	3	246-	258	254.14	63.40	0.75	3.87E+002	526.28	1.05E+005
M	4	276-	320	292.39	72.96	1.04	1.03E+004	272.64	1.13E+005
m	5	276-	320	300.17	74.90	1.05	7.56E+004	389.17	1.23E+005
m	6	276-	320	309.19	77.16	1.05	1.16E+005	456.84	1.25E+005
M	7	322-	387	326.23	81.42	1.24	2.07E+003	285.51	1.08E+005
m	8	322-	387	338.32	84.44	1.25	2.29E+004	329.24	1.45E+005
m	9	322-	387	349.62	87.26	1.25	5.99E+004	404.72	1.45E+005
m	10	322-	387	360.56	90.00	1.26	5.83E+004	396.57	1.45E+005
m	11	322-	387	373.94	93.34	1.26	7.64E+004	428.59	1.45E+005
	12	387-	407	398.94	99.59	1.14	1.41E+004	843.46	1.92E+005
M	13	409-	446	422.42	105.46	1.44	2.87E+004	400.32	1.77E+005
m	14	409-	446	435.90	108.82	1.44	1.09E+004	335.26	1.68E+005
	15	456-	473	461.66	115.26	1.07	7.04E+003	745.70	1.68E+005
M	16	507-	533	517.12	129.12	1.02	3.14E+004	373.49	1.43E+005
m	17	507-	533	526.25	131.41	1.02	1.94E+003	274.31	1.32E+005
M	18	570-	588	576.01	143.84	0.94	2.49E+003	291.69	1.17E+005
m	19	570-	588	584.18	145.88	0.94	1.65E+003	271.79	1.06E+005
	20	610-	626	616.79	154.04	1.06	1.13E+004	716.00	1.60E+005
	21	661-	670	666.40	166.43	0.87	1.54E+003	449.84	8.88E+004
	22	701-	715	707.86	176.79	0.71	1.02E+003	615.03	1.31E+005
	23	734-	755	744.66	185.99	1.23	2.63E+004	860.27	1.90E+005
	24	793-	805	798.16	199.36	1.07	3.02E+003	539.25	1.09E+005
	25	813-	829	816.83	204.03	0.81	4.27E+002	666.41	1.42E+005
	26	830-	855	837.76	209.26	1.10	6.43E+004	972.73	2.05E+005
	27	856-	875	864.38	215.91	1.21	4.39E+003	732.55	1.52E+005
	28	931-	938	934.56	233.45	0.74	7.96E+002	343.10	5.80E+004
M	29	948-	983	955.14	238.60	1.11	7.42E+005	907.69	9.07E+004
m	30	948-	983	965.14	241.09	1.11	8.00E+004	355.80	7.35E+004
M	31	1003-	1046	1011.12	252.58	1.25	3.83E+003	244.69	7.56E+004
m	32	1003-	1046	1026.77	256.50	1.25	1.38E+003	206.15	7.42E+004
m	33	1003-	1046	1035.68	258.72	1.25	1.76E+003	212.21	7.35E+004
	34	1052-	1062	1055.62	263.71	0.54	1.25E+002	343.79	4.95E+004
	35	1071-	1092	1081.51	270.18	1.19	5.43E+004	640.78	9.49E+004
M	36	1103-	1132	1110.04	277.31	1.12	3.02E+004	140.38	6.04E+004
m	37	1103-	1132	1128.44	281.91	1.13	3.30E+002	75.21	4.99E+004
	38	1141-	1161	1153.02	288.05	0.96	5.01E+003	553.70	8.31E+004
	39	1172-	1189	1181.36	295.13	1.14	5.72E+004	531.12	6.92E+004
	40	1192-	1218	1201.01	300.04	1.14	4.92E+004	698.94	9.92E+004
M	41	1283-	1345	1287.20	321.58	1.11	2.47E+003	92.96	3.79E+004
m	42	1283-	1345	1312.45	327.89	1.11	4.22E+004	161.25	5.43E+004

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m	43	1283-	1345	1329.91	332.26	1.12	1.71E+003	96.80	5.26E+004
M	44	1345-	1384	1353.77	338.22	1.17	1.60E+005	448.64	4.69E+004
m	45	1345-	1384	1364.34	340.86	1.17	5.58E+003	175.43	4.45E+004
	46	1399-	1424	1408.16	351.81	1.18	1.02E+005	650.75	7.39E+004
M	47	1541-	1567	1547.41	386.61	0.94	7.37E+002	144.57	3.40E+004
m	48	1541-	1567	1555.94	388.75	0.94	9.17E+002	150.07	3.13E+004
M	49	1603-	1651	1607.46	401.62	1.20	8.27E+002	150.59	3.07E+004
m	50	1603-	1651	1621.08	405.03	1.20	5.37E+002	145.44	3.98E+004
m	51	1603-	1651	1638.29	409.33	1.20	2.31E+004	232.77	3.53E+004
	52	1757-	1770	1762.04	440.25	1.04	1.12E+003	280.98	2.82E+004
	53	1805-	1824	1811.81	452.69	1.24	4.50E+003	376.35	3.91E+004
	54	1840-	1861	1852.43	462.84	1.29	4.91E+004	451.53	4.12E+004
	55	1907-	1920	1913.50	478.11	0.87	8.20E+002	268.82	2.59E+004
	56	1940-	1956	1949.00	486.98	1.18	1.17E+003	304.37	2.92E+004
	57	2007-	2020	2015.56	503.61	1.27	1.80E+003	259.65	2.38E+004
	58	2022-	2065	2043.40	510.57	1.42	1.02E+005	766.76	7.48E+004
M	59	2074-	2104	2081.04	519.98	1.22	6.12E+002	128.43	2.43E+004
m	60	2074-	2104	2093.40	523.07	1.22	9.00E+002	138.34	2.43E+004
	61	2128-	2141	2136.14	533.75	0.69	4.00E+002	248.68	2.23E+004
M	62	2177-	2211	2186.27	546.28	1.36	1.96E+003	143.85	2.64E+004
m	63	2177-	2211	2198.90	549.43	1.36	1.68E+003	137.63	2.74E+004
	64	2238-	2258	2250.42	562.31	1.30	8.08E+003	352.70	3.21E+004
	65	2276-	2298	2286.46	571.32	2.52	3.51E+003	370.34	3.44E+004
	66	2312-	2346	2333.21	583.00	1.35	2.89E+005	754.22	5.06E+004
	67	2424-	2449	2437.65	609.10	1.36	8.66E+004	477.60	3.33E+004
M	68	2454-	2486	2465.38	616.03	1.24	8.00E+002	122.45	1.99E+004
m	69	2454-	2486	2481.62	620.09	1.24	5.91E+002	115.53	1.62E+004
	70	2510-	2523	2516.85	628.90	0.73	3.23E+002	219.10	1.73E+004
	71	2557-	2569	2561.90	640.15	0.75	5.01E+002	205.22	1.58E+004
	72	2601-	2614	2606.46	651.29	0.77	5.48E+002	218.72	1.71E+004
	73	2655-	2674	2662.45	665.28	1.26	2.47E+003	297.51	2.45E+004
	74	2691-	2703	2698.71	674.35	1.40	5.55E+002	206.58	1.60E+004
	75	2739-	2762	2752.61	687.82	0.60	9.56E+002	339.31	2.85E+004
M	76	2801-	2845	2810.01	702.16	2.03	1.93E+003	153.00	2.69E+004
m	77	2801-	2845	2830.48	707.28	2.03	1.77E+003	149.42	2.96E+004
M	78	2869-	2921	2879.75	719.59	1.46	8.59E+002	110.42	2.00E+004
m	79	2869-	2921	2890.15	722.19	1.46	8.23E+002	108.50	1.88E+004
m	80	2869-	2921	2909.72	727.08	1.47	6.52E+004	286.42	1.92E+004
	81	2959-	2979	2970.80	742.35	0.97	5.92E+002	273.88	2.05E+004
	82	3012-	3037	3021.99	755.14	1.38	8.35E+003	334.70	2.43E+004
M	83	3042-	3103	3054.15	763.18	1.46	4.81E+003	123.22	1.61E+004
m	84	3042-	3103	3074.11	768.17	1.46	7.59E+003	134.08	1.55E+004
m	85	3042-	3103	3089.88	772.11	1.46	1.20E+004	153.41	1.48E+004
M	86	3122-	3154	3129.16	781.92	1.49	4.38E+003	114.54	1.25E+004
m	87	3122-	3154	3142.96	785.37	1.49	1.08E+004	146.80	1.35E+004
	88	3168-	3194	3180.46	794.75	1.47	3.48E+004	339.88	1.84E+004
	89	3215-	3236	3225.43	805.98	1.31	1.93E+003	231.39	1.37E+004
M	90	3257-	3379	3267.46	816.49	1.60	5.34E+002	86.56	1.25E+004
m	91	3257-	3379	3284.87	820.84	1.60	4.63E+002	84.32	1.17E+004
m	92	3257-	3379	3301.12	824.90	1.60	6.37E+002	67.30	1.15E+004

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m 93	3257-	3379	3322.94	830.35	1.61	6.59E+003	150.00	1.12E+004
m 94	3257-	3379	3343.62	835.52	1.61	1.42E+004	152.68	1.14E+004
m 95	3257-	3379	3362.00	840.12	1.61	7.44E+003	124.15	1.05E+004
96	3425-	3461	3443.07	860.38	1.53	3.60E+004	374.20	1.85E+004
97	3563-	3588	3574.71	893.28	1.39	3.04E+003	229.25	1.16E+004
98	3610-	3630	3617.89	904.07	1.59	5.64E+003	201.85	9.60E+003
99	3631-	3659	3645.89	911.07	1.55	2.10E+005	518.72	1.27E+004
M100	3705-	3756	3712.78	927.78	1.58	1.64E+002	67.66	6.97E+003
m101	3705-	3756	3737.56	933.98	1.58	4.43E+003	102.87	7.40E+003
M102	3769-	3892	3777.57	943.97	1.58	6.56E+002	71.20	6.76E+003
m103	3769-	3892	3793.01	947.83	1.58	7.26E+002	72.12	7.08E+003
m104	3769-	3892	3810.01	952.08	1.58	1.21E+003	73.64	7.04E+003
m105	3769-	3892	3835.56	958.47	1.59	2.95E+003	112.34	6.98E+003
m106	3769-	3892	3860.26	964.64	1.59	3.53E+004	194.15	6.82E+003
m107	3769-	3892	3877.13	968.86	1.59	1.31E+005	388.07	6.32E+003
108	3896-	3914	3904.92	975.80	1.01	3.14E+002	141.08	5.79E+003
M109	3924-	3964	3931.89	982.54	1.80	5.15E+002	67.42	5.66E+003
m110	3924-	3964	3954.20	988.12	1.80	1.35E+003	81.03	6.31E+003
111	3990-	4015	4005.43	1000.92	1.45	1.68E+003	185.43	7.69E+003
112	4124-	4144	4134.42	1033.16	1.41	1.34E+003	149.63	5.80E+003
113	4147-	4172	4161.73	1039.98	1.99	6.24E+002	173.67	6.94E+003
114	4200-	4221	4210.35	1052.13	1.12	4.17E+002	149.98	5.88E+003
M115	4254-	4326	4262.45	1065.15	1.60	1.56E+003	72.30	5.31E+003
m116	4254-	4326	4280.83	1069.75	1.60	3.21E+002	58.35	5.45E+003
m117	4254-	4326	4297.77	1073.98	1.61	1.72E+002	56.06	5.32E+003
m118	4254-	4326	4316.62	1078.69	1.61	3.75E+003	90.36	5.41E+003
119	4366-	4394	4377.62	1093.94	1.83	3.62E+003	192.83	7.24E+003
120	4434-	4456	4444.08	1110.55	1.70	2.64E+003	159.62	5.87E+003
121	4462-	4504	4483.13	1120.31	1.59	2.14E+004	298.97	1.07E+004
122	4601-	4637	4622.14	1155.05	2.45	3.76E+003	228.72	8.63E+003
123	4655-	4667	4660.61	1164.66	1.24	3.37E+002	92.88	3.15E+003
124	4721-	4737	4729.96	1182.00	1.58	2.26E+002	111.15	3.87E+003
125	4823-	4847	4833.70	1207.92	1.30	5.92E+002	156.15	5.75E+003
126	4942-	4970	4955.12	1238.27	1.75	7.50E+003	197.09	6.75E+003
127	4971-	5002	4990.79	1247.18	1.87	3.49E+003	208.61	8.00E+003
M128	5117-	5162	5127.07	1281.24	2.03	1.79E+003	80.55	5.44E+003
m129	5117-	5162	5151.15	1287.26	2.03	7.60E+002	65.54	5.62E+003
130	5232-	5243	5237.59	1308.86	0.47	7.92E+001	83.69	2.76E+003
131	5361-	5373	5367.17	1341.25	0.32	2.55E+001	88.85	2.98E+003
132	5427-	5445	5438.27	1359.02	0.26	1.13E+002	122.70	4.41E+003
M133	5494-	5529	5501.26	1374.76	1.82	6.13E+002	60.62	4.38E+003
m134	5494-	5529	5514.15	1377.98	1.82	5.33E+003	98.55	5.16E+003
135	5531-	5559	5544.92	1385.67	1.72	1.24E+003	170.39	6.01E+003
M136	5598-	5649	5609.52	1401.81	1.95	1.86E+003	71.72	4.72E+003
m137	5598-	5649	5635.69	1408.35	1.96	2.95E+003	81.88	4.88E+003
138	5725-	5739	5731.86	1432.39	0.79	1.35E+002	96.11	3.15E+003
139	5824-	5857	5840.47	1459.53	1.80	4.47E+003	192.89	6.24E+003
M140	5974-	6021	5987.91	1496.38	1.85	5.42E+003	92.38	3.93E+003
m141	5974-	6021	6010.52	1502.03	1.86	2.88E+003	74.45	3.75E+003
M142	6028-	6069	6041.25	1509.71	1.82	2.49E+003	71.83	3.73E+003

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m143	6028-	6069	6055.57	1513.29	1.82	2.06E+003	67.83	3.71E+003
144	6110-	6133	6119.43	1529.25	0.30	2.92E+002	124.78	3.81E+003
M145	6148-	6210	6157.94	1538.87	1.80	6.57E+002	57.87	3.33E+003
m146	6148-	6210	6177.58	1543.78	1.80	4.13E+002	50.76	3.51E+003
m147	6148-	6210	6199.45	1549.25	1.81	2.61E+002	47.83	3.37E+003
148	6220-	6249	6232.93	1557.62	1.57	1.08E+003	146.39	4.28E+003
M149	6292-	6344	6298.19	1573.93	1.83	2.24E+002	45.15	2.54E+003
m150	6292-	6344	6327.06	1581.14	1.84	3.28E+003	80.18	3.69E+003
M151	6345-	6413	6357.63	1588.78	1.87	1.81E+004	147.05	4.11E+003
m152	6345-	6413	6375.18	1593.17	1.87	1.01E+004	113.90	3.94E+003
m153	6345-	6413	6401.46	1599.73	1.87	3.56E+002	50.66	3.58E+003
M154	6467-	6572	6488.24	1621.42	1.94	8.74E+003	107.42	3.41E+003
m155	6467-	6572	6505.41	1625.72	1.94	1.57E+003	59.30	3.47E+003
m156	6467-	6572	6527.81	1631.31	1.94	8.86E+003	112.60	3.24E+003
m157	6467-	6572	6558.33	1638.94	1.94	2.64E+003	68.96	3.13E+003
M158	6635-	6683	6650.98	1662.10	1.91	1.13E+003	58.78	3.21E+003
m159	6635-	6683	6671.47	1667.22	1.92	1.05E+003	57.09	3.10E+003
M160	6705-	6760	6719.79	1679.29	2.18	5.32E+002	55.18	3.46E+003
m161	6705-	6760	6741.26	1684.66	2.18	3.55E+002	61.36	3.41E+003
m162	6705-	6760	6750.18	1686.89	2.18	5.30E+002	65.71	3.02E+003
163	6808-	6822	6815.42	1703.19	0.43	1.51E+002	78.03	2.06E+003
164	6913-	6937	6924.73	1730.51	1.72	3.29E+003	131.62	3.40E+003
M165	7032-	7082	7038.85	1759.03	1.99	1.18E+002	45.67	2.60E+003
m166	7032-	7082	7064.62	1765.47	1.99	1.70E+004	142.22	3.40E+003
167	7218-	7244	7230.63	1806.96	2.21	7.36E+002	123.74	3.33E+003
M168	7354-	7414	7360.94	1839.53	2.01	1.92E+002	46.54	2.73E+003
m169	7354-	7414	7376.17	1843.33	2.01	1.02E+002	44.64	3.53E+003
m170	7354-	7414	7397.20	1848.59	2.01	2.25E+003	70.86	3.38E+003
171	7540-	7564	7555.98	1888.27	1.63	4.80E+002	120.81	3.42E+003
172	7584-	7601	7592.08	1897.30	0.78	1.80E+002	89.94	2.43E+003
173	7805-	7830	7815.59	1953.15	0.46	2.10E+002	124.83	3.61E+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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*********************************************************************
*****        G A M M A   S P E C T R U M   A N A L Y S I S        *****
*********************************************************************


Filename: ERT01,C:\GENIE2K\CAMFILES\SMP-NFB-BAG #3-SLAG.CNF

Report Generated On              : 7/14/2017  12:35:04 PM

Sample Title                     : NFB-BAG #3-SLAG
Sample Description               : 450 cc Soil
Sample Identification            :
Sample Type                      :
Sample Geometry                  :

Peak Locate Threshold            :  3.00
Peak Locate Range (in channels)  :   100 -  8192
Peak Area Range (in channels)    :   100 -  8192
Identification Energy Tolerance  :    1.000 keV

Sample Size                      :  8.217E+002 GWET

Sample Taken On                  : 5/9/2017   12:00:00 PM
Acquisition Started              : 7/14/2017  10:30:43 AM

Live Time                        :     7200.0 seconds
Real Time                        :     7458.8 seconds

Dead Time                        :   3.47 %


          Energy Calibration Used Done On       : 5/10/2017
          Efficiency Calibration Used Done On   : 12/14/2016
          Efficiency ID                         : ERT0101
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****
***** P E A K A N A L Y S I S R E P O R T *****
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Detector Name: ERT01
Sample Title: NFB-BAG #3-SLAG
Peak Analysis Performed on: 7/14/2017 12:35:05 PM
Peak Analysis From Channel: 100
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
M	1	220-	236	225.30	56.19	0.68	5.05E+002	246.38	6.81E+004
m	2	220-	236	231.00	57.62	0.68	8.03E+002	391.73	7.64E+004
	3	246-	258	254.14	63.40	0.75	3.87E+002	526.28	1.05E+005
M	4	276-	320	292.39	72.96	1.04	1.03E+004	272.64	1.13E+005
m	5	276-	320	300.17	74.90	1.05	7.56E+004	389.17	1.23E+005
m	6	276-	320	309.19	77.16	1.05	1.16E+005	456.84	1.25E+005
M	7	322-	387	326.23	81.42	1.24	2.07E+003	285.51	1.08E+005
m	8	322-	387	338.32	84.44	1.25	2.29E+004	329.24	1.45E+005
m	9	322-	387	349.62	87.26	1.25	5.99E+004	404.72	1.45E+005
m	10	322-	387	360.56	90.00	1.26	5.83E+004	396.57	1.45E+005
m	11	322-	387	373.94	93.34	1.26	7.64E+004	428.59	1.45E+005
	12	387-	407	398.94	99.59	1.14	1.41E+004	843.46	1.92E+005
M	13	409-	446	422.42	105.46	1.44	2.87E+004	400.32	1.77E+005
m	14	409-	446	435.90	108.82	1.44	1.09E+004	335.26	1.68E+005
	15	456-	473	461.66	115.26	1.07	7.04E+003	745.70	1.68E+005
M	16	507-	533	517.12	129.12	1.02	3.14E+004	373.49	1.43E+005
m	17	507-	533	526.25	131.41	1.02	1.94E+003	274.31	1.32E+005
M	18	570-	588	576.01	143.84	0.94	2.49E+003	291.69	1.17E+005
m	19	570-	588	584.18	145.88	0.94	1.65E+003	271.79	1.06E+005
	20	610-	626	616.79	154.04	1.06	1.13E+004	716.00	1.60E+005
	21	661-	670	666.40	166.43	0.87	1.54E+003	449.84	8.88E+004
	22	701-	715	707.86	176.79	0.71	1.02E+003	615.03	1.31E+005
	23	734-	755	744.66	185.99	1.23	2.63E+004	860.27	1.90E+005
	24	793-	805	798.16	199.36	1.07	3.02E+003	539.25	1.09E+005
	25	813-	829	816.83	204.03	0.81	4.27E+002	666.41	1.42E+005
	26	830-	855	837.76	209.26	1.10	6.43E+004	972.73	2.05E+005
	27	856-	875	864.38	215.91	1.21	4.39E+003	732.55	1.52E+005
	28	931-	938	934.56	233.45	0.74	7.96E+002	343.10	5.80E+004
M	29	948-	983	955.14	238.60	1.11	7.42E+005	907.69	9.07E+004
m	30	948-	983	965.14	241.09	1.11	8.00E+004	355.80	7.35E+004
M	31	1003-	1046	1011.12	252.58	1.25	3.83E+003	244.69	7.56E+004
m	32	1003-	1046	1026.77	256.50	1.25	1.38E+003	206.15	7.42E+004
m	33	1003-	1046	1035.68	258.72	1.25	1.76E+003	212.21	7.35E+004
	34	1052-	1062	1055.62	263.71	0.54	1.25E+002	343.79	4.95E+004
	35	1071-	1092	1081.51	270.18	1.19	5.43E+004	640.78	9.49E+004
M	36	1103-	1132	1110.04	277.31	1.12	3.02E+004	140.38	6.04E+004
m	37	1103-	1132	1128.44	281.91	1.13	3.30E+002	75.21	4.99E+004
	38	1141-	1161	1153.02	288.05	0.96	5.01E+003	553.70	8.31E+004
	39	1172-	1189	1181.36	295.13	1.14	5.72E+004	531.12	6.92E+004
	40	1192-	1218	1201.01	300.04	1.14	4.92E+004	698.94	9.92E+004
M	41	1283-	1345	1287.20	321.58	1.11	2.47E+003	92.96	3.79E+004
m	42	1283-	1345	1312.45	327.89	1.11	4.22E+004	161.25	5.43E+004

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m	43	1283-	1345	1329.91	332.26	1.12	1.71E+003	96.80	5.26E+004
M	44	1345-	1384	1353.77	338.22	1.17	1.60E+005	448.64	4.69E+004
m	45	1345-	1384	1364.34	340.86	1.17	5.58E+003	175.43	4.45E+004
	46	1399-	1424	1408.16	351.81	1.18	1.02E+005	650.75	7.39E+004
M	47	1541-	1567	1547.41	386.61	0.94	7.37E+002	144.57	3.40E+004
m	48	1541-	1567	1555.94	388.75	0.94	9.17E+002	150.07	3.13E+004
M	49	1603-	1651	1607.46	401.62	1.20	8.27E+002	150.59	3.07E+004
m	50	1603-	1651	1621.08	405.03	1.20	5.37E+002	145.44	3.98E+004
m	51	1603-	1651	1638.29	409.33	1.20	2.31E+004	232.77	3.53E+004
	52	1757-	1770	1762.04	440.25	1.04	1.12E+003	280.98	2.82E+004
	53	1805-	1824	1811.81	452.69	1.24	4.50E+003	376.35	3.91E+004
	54	1840-	1861	1852.43	462.84	1.29	4.91E+004	451.53	4.12E+004
	55	1907-	1920	1913.50	478.11	0.87	8.20E+002	268.82	2.59E+004
	56	1940-	1956	1949.00	486.98	1.18	1.17E+003	304.37	2.92E+004
	57	2007-	2020	2015.56	503.61	1.27	1.80E+003	259.65	2.38E+004
	58	2022-	2065	2043.40	510.57	1.42	1.02E+005	766.76	7.48E+004
M	59	2074-	2104	2081.04	519.98	1.22	6.12E+002	128.43	2.43E+004
m	60	2074-	2104	2093.40	523.07	1.22	9.00E+002	138.34	2.43E+004
	61	2128-	2141	2136.14	533.75	0.69	4.00E+002	248.68	2.23E+004
M	62	2177-	2211	2186.27	546.28	1.36	1.96E+003	143.85	2.64E+004
m	63	2177-	2211	2198.90	549.43	1.36	1.68E+003	137.63	2.74E+004
	64	2238-	2258	2250.42	562.31	1.30	8.08E+003	352.70	3.21E+004
	65	2276-	2298	2286.46	571.32	2.52	3.51E+003	370.34	3.44E+004
	66	2312-	2346	2333.21	583.00	1.35	2.89E+005	754.22	5.06E+004
	67	2424-	2449	2437.65	609.10	1.36	8.66E+004	477.60	3.33E+004
M	68	2454-	2486	2465.38	616.03	1.24	8.00E+002	122.45	1.99E+004
m	69	2454-	2486	2481.62	620.09	1.24	5.91E+002	115.53	1.62E+004
	70	2510-	2523	2516.85	628.90	0.73	3.23E+002	219.10	1.73E+004
	71	2557-	2569	2561.90	640.15	0.75	5.01E+002	205.22	1.58E+004
	72	2601-	2614	2606.46	651.29	0.77	5.48E+002	218.72	1.71E+004
	73	2655-	2674	2662.45	665.28	1.26	2.47E+003	297.51	2.45E+004
	74	2691-	2703	2698.71	674.35	1.40	5.55E+002	206.58	1.60E+004
	75	2739-	2762	2752.61	687.82	0.60	9.56E+002	339.31	2.85E+004
M	76	2801-	2845	2810.01	702.16	2.03	1.93E+003	153.00	2.69E+004
m	77	2801-	2845	2830.48	707.28	2.03	1.77E+003	149.42	2.96E+004
M	78	2869-	2921	2879.75	719.59	1.46	8.59E+002	110.42	2.00E+004
m	79	2869-	2921	2890.15	722.19	1.46	8.23E+002	108.50	1.88E+004
m	80	2869-	2921	2909.72	727.08	1.47	6.52E+004	286.42	1.92E+004
	81	2959-	2979	2970.80	742.35	0.97	5.92E+002	273.88	2.05E+004
	82	3012-	3037	3021.99	755.14	1.38	8.35E+003	334.70	2.43E+004
M	83	3042-	3103	3054.15	763.18	1.46	4.81E+003	123.22	1.61E+004
m	84	3042-	3103	3074.11	768.17	1.46	7.59E+003	134.08	1.55E+004
m	85	3042-	3103	3089.88	772.11	1.46	1.20E+004	153.41	1.48E+004
M	86	3122-	3154	3129.16	781.92	1.49	4.38E+003	114.54	1.25E+004
m	87	3122-	3154	3142.96	785.37	1.49	1.08E+004	146.80	1.35E+004
	88	3168-	3194	3180.46	794.75	1.47	3.48E+004	339.88	1.84E+004
	89	3215-	3236	3225.43	805.98	1.31	1.93E+003	231.39	1.37E+004
M	90	3257-	3379	3267.46	816.49	1.60	5.34E+002	86.56	1.25E+004
m	91	3257-	3379	3284.87	820.84	1.60	4.63E+002	84.32	1.17E+004
m	92	3257-	3379	3301.12	824.90	1.60	6.37E+002	67.30	1.15E+004

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m 93	3257-	3379	3322.94	830.35	1.61	6.59E+003	150.00	1.12E+004
m 94	3257-	3379	3343.62	835.52	1.61	1.42E+004	152.68	1.14E+004
m 95	3257-	3379	3362.00	840.12	1.61	7.44E+003	124.15	1.05E+004
96	3425-	3461	3443.07	860.38	1.53	3.60E+004	374.20	1.85E+004
97	3563-	3588	3574.71	893.28	1.39	3.04E+003	229.25	1.16E+004
98	3610-	3630	3617.89	904.07	1.59	5.64E+003	201.85	9.60E+003
99	3631-	3659	3645.89	911.07	1.55	2.10E+005	518.72	1.27E+004
M100	3705-	3756	3712.78	927.78	1.58	1.64E+002	67.66	6.97E+003
m101	3705-	3756	3737.56	933.98	1.58	4.43E+003	102.87	7.40E+003
M102	3769-	3892	3777.57	943.97	1.58	6.56E+002	71.20	6.76E+003
m103	3769-	3892	3793.01	947.83	1.58	7.26E+002	72.12	7.08E+003
m104	3769-	3892	3810.01	952.08	1.58	1.21E+003	73.64	7.04E+003
m105	3769-	3892	3835.56	958.47	1.59	2.95E+003	112.34	6.98E+003
m106	3769-	3892	3860.26	964.64	1.59	3.53E+004	194.15	6.82E+003
m107	3769-	3892	3877.13	968.86	1.59	1.31E+005	388.07	6.32E+003
108	3896-	3914	3904.92	975.80	1.01	3.14E+002	141.08	5.79E+003
M109	3924-	3964	3931.89	982.54	1.80	5.15E+002	67.42	5.66E+003
m110	3924-	3964	3954.20	988.12	1.80	1.35E+003	81.03	6.31E+003
111	3990-	4015	4005.43	1000.92	1.45	1.68E+003	185.43	7.69E+003
112	4124-	4144	4134.42	1033.16	1.41	1.34E+003	149.63	5.80E+003
113	4147-	4172	4161.73	1039.98	1.99	6.24E+002	173.67	6.94E+003
114	4200-	4221	4210.35	1052.13	1.12	4.17E+002	149.98	5.88E+003
M115	4254-	4326	4262.45	1065.15	1.60	1.56E+003	72.30	5.31E+003
m116	4254-	4326	4280.83	1069.75	1.60	3.21E+002	58.35	5.45E+003
m117	4254-	4326	4297.77	1073.98	1.61	1.72E+002	56.06	5.32E+003
m118	4254-	4326	4316.62	1078.69	1.61	3.75E+003	90.36	5.41E+003
119	4366-	4394	4377.62	1093.94	1.83	3.62E+003	192.83	7.24E+003
120	4434-	4456	4444.08	1110.55	1.70	2.64E+003	159.62	5.87E+003
121	4462-	4504	4483.13	1120.31	1.59	2.14E+004	298.97	1.07E+004
122	4601-	4637	4622.14	1155.05	2.45	3.76E+003	228.72	8.63E+003
123	4655-	4667	4660.61	1164.66	1.24	3.37E+002	92.88	3.15E+003
124	4721-	4737	4729.96	1182.00	1.58	2.26E+002	111.15	3.87E+003
125	4823-	4847	4833.70	1207.92	1.30	5.92E+002	156.15	5.75E+003
126	4942-	4970	4955.12	1238.27	1.75	7.50E+003	197.09	6.75E+003
127	4971-	5002	4990.79	1247.18	1.87	3.49E+003	208.61	8.00E+003
M128	5117-	5162	5127.07	1281.24	2.03	1.79E+003	80.55	5.44E+003
m129	5117-	5162	5151.15	1287.26	2.03	7.60E+002	65.54	5.62E+003
130	5232-	5243	5237.59	1308.86	0.47	7.92E+001	83.69	2.76E+003
131	5361-	5373	5367.17	1341.25	0.32	2.55E+001	88.85	2.98E+003
132	5427-	5445	5438.27	1359.02	0.26	1.13E+002	122.70	4.41E+003
M133	5494-	5529	5501.26	1374.76	1.82	6.13E+002	60.62	4.38E+003
m134	5494-	5529	5514.15	1377.98	1.82	5.33E+003	98.55	5.16E+003
135	5531-	5559	5544.92	1385.67	1.72	1.24E+003	170.39	6.01E+003
M136	5598-	5649	5609.52	1401.81	1.95	1.86E+003	71.72	4.72E+003
m137	5598-	5649	5635.69	1408.35	1.96	2.95E+003	81.88	4.88E+003
138	5725-	5739	5731.86	1432.39	0.79	1.35E+002	96.11	3.15E+003
139	5824-	5857	5840.47	1459.53	1.80	4.47E+003	192.89	6.24E+003
M140	5974-	6021	5987.91	1496.38	1.85	5.42E+003	92.38	3.93E+003
m141	5974-	6021	6010.52	1502.03	1.86	2.88E+003	74.45	3.75E+003
M142	6028-	6069	6041.25	1509.71	1.82	2.49E+003	71.83	3.73E+003

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m143	6028-	6069	6055.57	1513.29	1.82	2.06E+003	67.83	3.71E+003
144	6110-	6133	6119.43	1529.25	0.30	2.92E+002	124.78	3.81E+003
M145	6148-	6210	6157.94	1538.87	1.80	6.57E+002	57.87	3.33E+003
m146	6148-	6210	6177.58	1543.78	1.80	4.13E+002	50.76	3.51E+003
m147	6148-	6210	6199.45	1549.25	1.81	2.61E+002	47.83	3.37E+003
148	6220-	6249	6232.93	1557.62	1.57	1.08E+003	146.39	4.28E+003
M149	6292-	6344	6298.19	1573.93	1.83	2.24E+002	45.15	2.54E+003
m150	6292-	6344	6327.06	1581.14	1.84	3.28E+003	80.18	3.69E+003
M151	6345-	6413	6357.63	1588.78	1.87	1.81E+004	147.05	4.11E+003
m152	6345-	6413	6375.18	1593.17	1.87	1.01E+004	113.90	3.94E+003
m153	6345-	6413	6401.46	1599.73	1.87	3.56E+002	50.66	3.58E+003
M154	6467-	6572	6488.24	1621.42	1.94	8.74E+003	107.42	3.41E+003
m155	6467-	6572	6505.41	1625.72	1.94	1.57E+003	59.30	3.47E+003
m156	6467-	6572	6527.81	1631.31	1.94	8.86E+003	112.60	3.24E+003
m157	6467-	6572	6558.33	1638.94	1.94	2.64E+003	68.96	3.13E+003
M158	6635-	6683	6650.98	1662.10	1.91	1.13E+003	58.78	3.21E+003
m159	6635-	6683	6671.47	1667.22	1.92	1.05E+003	57.09	3.10E+003
M160	6705-	6760	6719.79	1679.29	2.18	5.32E+002	55.18	3.46E+003
m161	6705-	6760	6741.26	1684.66	2.18	3.55E+002	61.36	3.41E+003
m162	6705-	6760	6750.18	1686.89	2.18	5.30E+002	65.71	3.02E+003
163	6808-	6822	6815.42	1703.19	0.43	1.51E+002	78.03	2.06E+003
164	6913-	6937	6924.73	1730.51	1.72	3.29E+003	131.62	3.40E+003
M165	7032-	7082	7038.85	1759.03	1.99	1.18E+002	45.67	2.60E+003
m166	7032-	7082	7064.62	1765.47	1.99	1.70E+004	142.22	3.40E+003
167	7218-	7244	7230.63	1806.96	2.21	7.36E+002	123.74	3.33E+003
M168	7354-	7414	7360.94	1839.53	2.01	1.92E+002	46.54	2.73E+003
m169	7354-	7414	7376.17	1843.33	2.01	1.02E+002	44.64	3.53E+003
m170	7354-	7414	7397.20	1848.59	2.01	2.25E+003	70.86	3.38E+003
171	7540-	7564	7555.98	1888.27	1.63	4.80E+002	120.81	3.42E+003
172	7584-	7601	7592.08	1897.30	0.78	1.80E+002	89.94	2.43E+003
173	7805-	7830	7815.59	1953.15	0.46	2.10E+002	124.83	3.61E+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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***** N U C L I D E M D A R E P O R T *****
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Detector Name: ERT01
Sample Geometry:
Sample Title: NFB-BAG #3-SLAG
Nuclide Library Used: C:\GENIE2K\CAMFILES\ERT_LIBRARY_LMDA.NLB

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
	K-40	1460.82	10.55	6.0457E+000	6.05E+000	3.5181E+001
	Co-60	1173.23	99.85	5.1666E-001	5.17E-001	4.1142E-001
		1332.49	99.98	5.6837E-001		6.2746E-001
>		2505.71	0.10	0.0000E+000		0.0000E+000
	Cs-137	32.06	5.54	4.8187E+004	7.89E-001	2.4244E+004
		661.66	84.99	7.8903E-001		-3.5068E-001
+	Tl-208	72.80*	2.02	5.1649E+001	1.27E+000	2.4061E+002
		74.97*	3.41	2.9413E+001		9.6159E+002
		84.90*	1.51	5.3420E+001		4.8813E+002
		277.36*	6.31	7.4973E+000		1.4006E+002
		510.77*	22.60	5.7970E+000		1.8172E+002
		583.19*	84.50	1.2710E+000		1.4898E+002
		763.13*	1.81	2.4115E+001		1.3840E+002
		860.56*	12.42	6.8840E+000		1.6485E+002
+	Bi-212	39.86	1.06	9.4521E+003	6.82E+000	-6.7984E+002
		727.33*	6.74	6.8246E+000		4.8682E+002
		785.37*	1.11	3.6772E+001		5.1477E+002
		1620.74*	1.51	2.3318E+001		5.2707E+002
		1806.00*	0.09	5.9427E+002		7.7482E+002
+	Pb-212	74.81*	10.40	9.6441E+000	1.24E+000	3.1529E+002
		77.11*	17.50	5.3090E+000		2.6504E+002
		87.30*	7.81	9.6977E+000		2.3216E+002
		115.18*	0.59	1.3124E+002		2.6803E+002
		238.63*	43.30	1.2353E+000		4.6214E+002
		300.09*	3.28	2.8661E+001		4.5700E+002
+	Bi-214	76.86*	0.43	2.0429E+002	1.62E+000	1.0199E+004
		89.81*	0.24	2.7579E+002		6.4184E+003
		386.77*	0.30	1.3372E+002		8.1189E+001
		454.77	0.29	2.2422E+002		5.2863E+002
		609.31*	45.49	1.6158E+000		7.9815E+001
		665.45*	1.53	3.9636E+001		7.1549E+001
		703.11*	0.48	1.0390E+002		1.8523E+002
		719.86*	0.39	1.1116E+002		1.0229E+002
		768.36*	4.89	8.2153E+000		7.6036E+001
		786.10*	0.31	1.2333E+002		1.7266E+003
		806.17*	1.26	4.2579E+001		7.7604E+001
		934.06*	3.10	1.0417E+001		8.1201E+001
		964.08*	0.36	8.7627E+001		5.6654E+003
		1051.96*	0.31	1.3764E+002		8.2808E+001
		1120.29*	14.91	5.3614E+000		9.4627E+001

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Bi-214	1133.66	0.25	1.9651E+002	1.62E+000	5.1730E+001
		1155.19*	1.63	4.2351E+001		1.5516E+002
		1207.68*	0.45	1.1159E+002		9.1752E+001
		1238.11*	5.79	1.0162E+001		9.2251E+001
		1280.96*	1.43	2.4949E+001		9.1730E+001
		1377.67*	4.00	9.1685E+000		1.0290E+002
		1385.31*	0.76	7.9623E+001		1.2646E+002
		1401.50*	1.27	2.7963E+001		1.1448E+002
		1407.98*	2.15	1.6857E+001		1.0760E+002
		1509.23*	2.11	1.5720E+001		9.6650E+001
		1538.50*	0.38	8.4312E+001		1.4495E+002
		1543.32*	0.20	1.6296E+002		1.7159E+002
		1583.22	0.69	1.4043E+002		2.3784E+003
		1594.73	0.25	4.2962E+002		8.4028E+003
		1599.31*	0.23	1.4590E+002		1.3097E+002
		1661.28*	1.15	2.8160E+001		8.5068E+001
		1683.99*	0.22	1.5543E+002		1.4277E+002
		1729.59*	2.92	1.6615E+001		9.8810E+001
		1764.49*	15.40	2.2130E+000		9.7650E+001
		1847.42	2.11	2.8778E+001		1.0997E+000
		1873.16	0.22	2.5081E+002		1.8032E+002
>		2118.55	1.14	0.0000E+000		0.0000E+000
>		2204.21	5.08	0.0000E+000		0.0000E+000
+	Pb-214	53.28	1.20	4.7555E+002	2.18E+000	1.5970E+002
		74.81*	6.44	1.4589E+001		4.7694E+002
		77.11*	10.80	8.0580E+000		4.0228E+002
		87.30*	4.84	1.4658E+001		3.5091E+002
		242.00*	7.43	6.1042E+000		2.7336E+002
		258.87*	0.52	8.9893E+001		8.8618E+001
		274.80	0.47	1.6116E+002		-4.5207E+001
		295.22*	19.30	3.2365E+000		8.3897E+001
		351.93*	37.60	2.1796E+000		8.3932E+001
		462.00*	0.22	2.9708E+002		7.9636E+003
		533.66*	0.19	2.4094E+002		8.3326E+001
		785.96*	1.07	3.5732E+001		5.0022E+002
		839.04	0.59	1.2618E+002		1.9275E+003
+	Ra-224	81.07*	0.13	5.7707E+002	1.18E+001	5.5047E+002
		83.78*	0.22	3.7173E+002		3.3966E+003
		240.99*	4.10	1.1809E+001		5.2885E+002
+	Ra-226	81.07*	0.20	3.5945E+002	2.44E+001	3.4288E+002
		83.78*	0.33	2.3036E+002		2.1049E+003
		94.90	0.15	6.0798E+002		9.0917E+003
		186.21*	3.59	2.4412E+001		1.6323E+002
+	Ac-228	99.50*	1.26	7.7361E+001	2.06E+000	2.8054E+002
		129.07*	2.50	2.1798E+001		2.7508E+002
		209.25*	3.97	2.7710E+001		4.0794E+002
		270.24*	3.55	2.2556E+001		4.4087E+002
		328.00*	3.04	1.6123E+001		4.4371E+002
		338.32*	11.40	4.0621E+000		4.5520E+002
		409.46*	2.02	2.1954E+001		4.0911E+002

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Ac-228	463.00*	4.45	1.5750E+001	2.06E+000	4.2221E+002
		755.31*	1.03	7.5258E+001		4.1919E+002
		772.29*	1.52	2.7734E+001		4.1445E+002
		794.94*	4.31	1.6469E+001		4.3220E+002
		835.70*	1.70	2.3057E+001		4.6462E+002
		911.20*	26.20	2.5629E+000		4.7780E+002
		964.79*	4.99	6.8049E+000		4.3997E+002
		968.96*	15.90	2.0631E+000		5.1343E+002
		1588.20*	3.06	1.2485E+001		5.3175E+002
		1630.62*	1.52	2.2637E+001		5.3244E+002
+	Th-228	84.37*	1.26	6.4020E+001	6.40E+001	5.8498E+002
		131.61*	0.13	4.0056E+002		3.2481E+002
		166.41*	0.10	4.5840E+002		3.3856E+002
		215.98*	0.25	3.4205E+002		4.4246E+002
+	Pa-234m	258.23*	0.07	6.3821E+002	5.98E+001	6.2916E+002
		742.81*	0.09	6.4667E+002		3.0122E+002
		766.36	0.32	2.3533E+002		-3.1296E+003
		786.27*	0.05	7.1325E+002		9.9849E+003
		1001.03*	0.85	5.9833E+001		1.1872E+002
		1737.77	0.02	2.6247E+003		-4.7299E+001
+	Th-234	63.30*	3.75	4.9832E+001	1.47E+001	7.1918E+000
		92.59*	4.33	1.4712E+001		4.4842E+002
		112.81	0.22	3.2243E+002		-6.1941E+001

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = Calculated MDA is zero due to zero counts in the region, or the region is outside the spectrum, or has not been 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: NFB-BAG #3-SLAG
Nuclide Library Used: C:\GENIE2K\CAMFILES\ERT_LIBRARY_LMDA.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Be-7	0.953	477.60*	10.44	6.76506E+000	2.22855E+000
Mn-54	0.928	834.84*	99.97	8.56805E+000	2.19950E-001
Ce-139	0.947	165.86*	79.89	5.73292E-001	1.68115E-001
Ce-141	0.943	40.82 @	2.67		
		145.44*	48.29	2.86859E+000	4.78983E-001
Eu-152m	0.996	89.85*	69.90	2.26109E+001	6.44059E-001
Eu-155	0.928	45.30	1.31		
		60.01	1.22		
		86.55*	30.70	5.67942E+001	1.67791E+000
		105.31*	21.10	3.11530E+001	1.22422E+000
Tl-208	0.994	72.80* @	2.02	2.40611E+002	9.69735E+000
		74.97* @	3.41	9.61594E+002	2.94265E+001
		84.90* @	1.51	4.88126E+002	1.53021E+001
		277.36*	6.31	1.40063E+002	4.97622E+000
		510.77* @	22.60	1.81723E+002	5.96248E+000
		583.19*	84.50	1.48977E+002	4.65703E+000
		763.13* @	1.81	1.38402E+002	4.91737E+000
		860.56*	12.42	1.64848E+002	4.37348E+000
TL-208e	0.938	1592.53*	99.16	9.17795E+000	5.72672E-001
Bi-211	0.907	351.03*	13.00	2.44136E+002	8.94695E+000
Bi-212	0.960	39.86 @	1.06		
		727.33*	6.74	4.86821E+002	1.53121E+001
		785.37*	1.11	5.14774E+002	1.50119E+001
		1620.74*	1.51	5.27073E+002	1.85728E+001
		1806.00* @	0.09	7.74823E+002	2.17729E+002
Pb-212	1.000	74.81*	10.40	3.15292E+002	1.32594E+001
		77.11*	17.50	2.65040E+002	1.09778E+001
		87.30*	7.81	2.32160E+002	9.85514E+000
		115.18* @	0.59	2.68031E+002	2.92596E+001
		238.63*	43.30	4.62140E+002	1.52143E+001
		300.09*	3.28	4.57002E+002	1.67359E+001
Bi-214	0.929	76.86* @	0.43	1.01987E+004	4.36342E+002
		89.81* @	0.24	6.41836E+003	2.94001E+002
		386.77* @	0.30	8.11889E+001	1.62018E+001
		454.77 @	0.29		
		609.31*	45.49	7.98150E+001	2.39678E+000
		665.45* @	1.53	7.15487E+001	8.85424E+000
		703.11* @	0.48	1.85228E+002	1.60538E+001
		719.86* @	0.39	1.02288E+002	1.36601E+001
		768.36*	4.89	7.60358E+001	2.31049E+000
		786.10* @	0.31	1.72656E+003	2.82565E+002

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Bi-214	0.929	806.17*	@	1.26	7.76045E+001	9.49067E+000
		934.06*		3.10	8.12007E+001	2.65404E+000
		964.08*	@	0.36	5.66545E+003	2.29882E+002
		1051.96*	@	0.31	8.28076E+001	2.99659E+001
		1120.29*		14.91	9.46275E+001	2.65090E+000
		1133.66	@	0.25		
		1155.19*	@	1.63	1.55163E+002	1.01901E+001
		1207.68*	@	0.45	9.17522E+001	2.45279E+001
		1238.11*		5.79	9.22506E+001	3.58557E+000
		1280.96*	@	1.43	9.17295E+001	4.89654E+000
		1377.67*		4.00	1.02902E+002	3.56759E+000
		1385.31*	@	0.76	1.26464E+002	1.79804E+001
		1401.50*	@	1.27	1.14482E+002	5.56945E+000
		1407.98*	@	2.15	1.07604E+002	4.74323E+000
		1509.23*	@	2.11	9.66495E+001	4.12678E+000
		1538.50*	@	0.38	1.44952E+002	1.43298E+001
		1543.32*	@	0.20	1.71592E+002	4.79921E+001
		1583.22	@	0.69		
		1594.73	@	0.25		
		1599.31*	@	0.23	1.30972E+002	3.90752E+001
		1661.28*	@	1.15	8.50685E+001	5.46492E+000
		1683.99*	@	0.22	1.42772E+002	2.52875E+001
		1729.59*	@	2.92	9.88104E+001	5.15382E+000
		1764.49*		15.40	9.76495E+001	3.53035E+000
		1847.42	@	2.11		
		1873.16	@	0.22		
		2118.55	@	1.14		
		2204.21	@	5.08		
Pb-214	0.962	53.28	@	1.20		
		74.81*		6.44	4.76941E+002	2.13283E+001
		77.11*		10.80	4.02281E+002	1.91706E+001
		87.30*		4.84	3.50911E+002	1.63105E+001
		242.00*		7.43	2.73360E+002	9.62303E+000
		258.87*	@	0.52	8.86177E+001	1.12072E+001
		274.80	@	0.47		
		295.22*		19.30	8.38972E+001	2.96062E+000
		351.93*		37.60	8.39315E+001	2.95863E+000
		462.00*	@	0.22	7.96365E+003	4.22595E+002
		533.66*	@	0.19	8.33263E+001	5.20829E+001
		785.96*	@	1.07	5.00219E+002	3.98900E+001
		839.04	@	0.59		
Rn-220	0.986	549.73*		0.11	6.18956E+002	1.07098E+002
Ra-223	0.587	81.07*		15.30	4.43997E+000	6.25955E-001
		83.78*		25.40	2.73364E+001	1.01190E+000
		94.90		11.50		
		122.32	@	1.21		
		144.24*		3.27	1.56783E+001	1.93449E+000
		154.21*		5.70	4.14729E+001	3.10879E+000
		158.63	@	0.69		
		179.54	@	0.15		

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Ra-223	0.587	269.46*	13.90	1.06072E+002	4.74180E+000
		288.18* @	0.16	8.80134E+002	1.04957E+002
		323.87	3.99		
		328.38* @	0.21	6.08002E+003	3.07313E+002
		338.32*	2.84	1.72137E+003	7.09046E+001
		342.87 @	0.22		
		371.68 @	0.49		
		445.03 @	1.29		
Ra-224	0.994	81.07* @	0.13	5.50470E+002	8.04001E+001
		83.78* @	0.22	3.39663E+003	1.64373E+002
		240.99*	4.10	5.28854E+002	1.80801E+001
Ra-226	0.933	81.07* @	0.20	3.42881E+002	4.98517E+001
		83.78* @	0.33	2.10494E+003	1.01414E+002
		94.90 @	0.15		
		186.21*	3.59	1.63229E+002	7.69364E+000
Ac-228	0.995	99.50* @	1.26	2.80544E+002	2.01742E+001
		129.07* @	2.50	2.75078E+002	1.06006E+001
		209.25*	3.97	4.07943E+002	1.93287E+001
		270.24*	3.55	4.40865E+002	1.95367E+001
		328.00*	3.04	4.43705E+002	2.17321E+001
		338.32*	11.40	4.55202E+002	2.19269E+001
		409.46* @	2.02	4.09110E+002	1.86738E+001
		463.00*	4.45	4.22205E+002	2.69228E+001
		755.31* @	1.03	4.19187E+002	2.55987E+001
		772.29* @	1.52	4.14452E+002	1.99551E+001
		794.94*	4.31	4.32204E+002	1.79493E+001
		835.70* @	1.70	4.64623E+002	2.25450E+001
		911.20*	26.20	4.77804E+002	1.82413E+001
		964.79*	4.99	4.39967E+002	1.82161E+001
		968.96*	15.90	5.13425E+002	2.00298E+001
		1588.20*	3.06	5.31751E+002	2.53212E+001
		1630.62* @	1.52	5.32439E+002	2.62366E+001
Th-228	0.999	84.37*	1.26	5.84976E+002	2.05550E+001
		131.61* @	0.13	3.24806E+002	4.67997E+001
		166.41* @	0.10	3.38558E+002	9.94013E+001
		215.98*	0.25	4.42456E+002	7.52466E+001
Pa-234m	0.589	258.23* @	0.07	6.29161E+002	7.87601E+001
		742.81* @	0.09	3.01219E+002	1.39861E+002
		766.36	0.32		
		786.27* @	0.05	9.98493E+003	3.06102E+002
		1001.03*	0.85	1.18721E+002	1.34798E+001
		1737.77 @	0.02		
Th-234	0.897	63.30*	3.75	7.19185E+000	1.07147E+001
		92.59*	4.33	4.48419E+002	2.28809E+001
		112.81 @	0.22		

* = Energy line found in the spectrum.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.45
Errors quoted at 1.000 sigma

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***** I N T E R F E R E N C E C O R R E C T E D R E P O R T *****
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	Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/GWET)	Wt mean Activity Uncertainty
	Be-7		0.953	6.765064E+000	2.228550E+000
	Mn-54		0.928	1.729186E-001	2.322860E-001
X	Cd-109		0.909		
	Ce-139		0.947	1.392580E-001	1.719666E-001
	Ce-141	@	0.943	2.868594E+000	4.789828E-001
	Eu-152m		0.996	2.230520E+001	6.141300E-001
	Eu-155		0.928	2.342923E+001	7.815605E-001
X	Tm-170		0.993		
	Tl-208	@	0.994	1.522547E+002	2.528008E+000
	TL-208e		0.938	9.177948E+000	5.726716E-001
	Bi-211		0.907	3.878208E+001	1.147172E+001
	Bi-212	@	0.960	4.735742E+002	8.103727E+000
	Pb-212	@	1.000	2.005628E+002	4.584118E+000
	Bi-214	@	0.929	8.677442E+001	1.036062E+000
	Pb-214	@	0.962	7.059865E+001	2.756419E+000
	Rn-220		0.986	6.189561E+002	1.070978E+002
	Ra-223	@	0.587	2.295511E+000	5.856070E-001
	Ra-224	@	0.994	3.735486E+002	1.764131E+001
	Ra-226	@	0.933	1.577740E+002	7.181329E+000
	Ac-228	@	0.995	4.552464E+002	4.050461E+000
	Th-228	@	0.999	2.563191E+002	2.137335E+001
X	Th-231		0.993		
	Pa-234m	@	0.589	1.158319E+002	1.342258E+001
	Th-234	@	0.897	8.654664E+001	9.703487E+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

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 7/14/2017 12:35:05 PM
Peak Locate From Channel: 100
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide
M 1	56.19	7.0087E-002	48.82	Tol.	Np-237
m 2	57.62	1.1151E-001	48.79	Tol.	Np-237 Np-239
m 14	108.82	1.5206E+000	3.06	Tol.	Cs-136 Yb-169
22	176.79	1.4209E-001	60.12	Sum	
24	199.36	4.2000E-001	17.83	Sum	
25	204.03	5.9236E-002	156.25	Sum	
28	233.45	1.1054E-001	43.11	Sum	
M 31	252.58	5.3233E-001	6.38	Tol.	Sb-127
m 32	256.50	1.9157E-001	14.95	Sum	
34	263.71	1.7415E-002	274.18	Sum	
m 37	281.91	4.5823E-002	22.80	Sum	
M 41	321.58	3.4274E-001	3.77	Sum	
m 43	332.26	2.3681E-001	5.68	Sum	
m 45	340.86	7.7443E-001	3.15	Sum	
m 48	388.75	1.2740E-001	16.36	Sum	
M 49	401.62	1.1492E-001	18.20	Sum	
m 50	405.03	7.4542E-002	27.10	Sum	
52	440.25	1.5591E-001	25.03	Sum	
53	452.69	6.2453E-001	8.37	Sum	
56	486.98	1.6202E-001	26.09	D-Esc.	
57	503.61	2.5025E-001	14.41	Sum	
M 59	519.98	8.4973E-002	20.99	Tol.	Tl-202
m 60	523.07	1.2503E-001	15.37		
M 62	546.28	2.7182E-001	7.35	Sum	
64	562.31	1.1223E+000	4.37	Sum	
65	571.32	4.8811E-001	10.54	D-Esc.	
M 68	616.03	1.1106E-001	15.31	Sum	
m 69	620.09	8.2105E-002	19.54	Sum	
70	628.90	4.4880E-002	67.81	Sum	
71	640.15	6.9601E-002	40.95	D-Esc.	
72	651.29	7.6157E-002	39.89	Sum	
74	674.35	7.7151E-002	37.19	Sum	
75	687.82	1.3284E-001	35.47	Sum	
m 77	707.28	2.4619E-001	8.43	Tol.	Ag-110m
m 79	722.19	1.1432E-001	13.18	Sum	
M 86	781.92	6.0867E-001	2.61	Tol.	Sb-127
M 90	816.49	7.4147E-002	16.21	Sum	
m 91	820.84	6.4303E-002	18.21	Sum	
m 92	824.90	8.8444E-002	10.57	Sum	
m 93	830.35	9.1475E-001	2.28	Sum	
m 95	840.12	1.0327E+000	1.67	Sum	
97	893.28	4.2282E-001	7.53	Sum	

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide
98	904.07	7.8308E-001	3.58	Sum	
M100	927.78	2.2772E-002	41.26	Sum	
M102	943.97	9.1088E-002	10.86	Sum	
m103	947.83	1.0088E-001	9.93	Sum	
m104	952.08	1.6842E-001	6.07	Sum	
m105	958.47	4.1039E-001	3.80	Sum	
108	975.80	4.3578E-002	44.97	Sum	
M109	982.54	7.1478E-002	13.10	Sum	
m110	988.12	1.8730E-001	6.01	Sum	
112	1033.16	1.8565E-001	11.19	S-Esc.	
113	1039.98	8.6692E-002	27.82	Sum	
M115	1065.15	2.1643E-001	4.64	Sum	
m116	1069.75	4.4609E-002	18.17	Sum	
m117	1073.98	2.3912E-002	32.56	Sum	
m118	1078.69	5.2149E-001	2.41	S-Esc.	
119	1093.94	5.0296E-001	5.32	Sum	
120	1110.55	3.6626E-001	6.05	S-Esc.	
123	1164.66	4.6790E-002	27.57	Sum	
124	1182.00	3.1392E-002	49.18	Sum	
127	1247.18	4.8537E-001	5.97	Sum	
m129	1287.26	1.0551E-001	8.63	Sum	
130	1308.86	1.1004E-002	105.63	Sum	
131	1341.25	3.5417E-003	348.45	Sum	
132	1359.02	1.5744E-002	108.25	Sum	
M133	1374.76	8.5193E-002	9.88	Sum	
138	1432.39	1.8803E-002	70.99	Sum	
139	1459.53	6.2139E-001	4.31	Sum	
M140	1496.38	7.5239E-001	1.71	Sum	
m141	1502.03	4.0022E-001	2.58	Sum	
m143	1513.29	2.8623E-001	3.29	Sum	
144	1529.25	4.0488E-002	42.80	Sum	
m147	1549.25	3.6284E-002	18.31	Sum	
148	1557.62	1.4969E-001	13.58	Sum	
M149	1573.93	3.1176E-002	20.11	Sum	
m150	1581.14	4.5578E-001	2.44	Sum	
m155	1625.72	2.1849E-001	3.77	Sum	
m157	1638.94	3.6655E-001	2.61	Sum	
m159	1667.22	1.4548E-001	5.45	Sum	
M160	1679.29	7.3874E-002	10.38	Sum	
m162	1686.89	7.3547E-002	12.41	Sum	
163	1703.19	2.0965E-002	51.69	Sum	
M165	1759.03	1.6358E-002	38.78	Sum	
M168	1839.53	2.6730E-002	24.18	Sum	
m169	1843.33	1.4155E-002	43.80	Sum	
m170	1848.59	3.1270E-001	3.15	Sum	
171	1888.27	6.6606E-002	25.19	Sum	
172	1897.30	2.5042E-002	49.88	Sum	
173	1953.15	2.9124E-002	59.53	Sum	

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

Errors quoted at 1.000 sigma