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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-HTC-A02-S001-0006-01.CNF

Report Generated On              : 6/25/2017  10:49:53 PM

Sample Title                     : HTC-A02-S001-0006-01
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                      :  8.839E+002 GWET

Sample Taken On                  : 5/15/2017  10:44:00 AM
Acquisition Started              : 6/25/2017   8:49:38 PM

Live Time                        :     7200.0 seconds
Real Time                        :     7212.6 seconds

Dead Time                        :   0.17 %


          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: HTC-A02-S001-0006-01
Peak Analysis Performed on: 6/25/2017 10:49:53 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
	1	242-	261	253.80	63.32	0.87	1.13E+003	174.73	8.39E+003
M	2	285-	398	300.09	74.88	1.07	4.67E+003	110.30	6.80E+003
m	3	285-	398	309.19	77.16	1.08	2.98E+003	113.08	6.72E+003
m	4	285-	398	317.85	79.32	1.08	3.48E+002	38.18	6.66E+003
m	5	285-	398	325.13	81.14	1.09	1.70E+002	20.87	6.64E+003
m	6	285-	398	336.45	83.97	1.09	2.01E+003	107.12	6.59E+003
m	7	285-	398	349.75	87.30	1.10	1.11E+003	49.86	6.52E+003
m	8	285-	398	360.29	89.93	1.10	6.29E+002	38.85	6.47E+003
m	9	285-	398	371.24	92.67	1.10	6.76E+003	151.57	6.41E+003
m	10	285-	398	379.83	94.81	1.11	5.47E+002	68.95	6.36E+003
m	11	285-	398	393.67	98.27	1.11	4.10E+002	64.00	5.86E+003
	12	407-	421	412.09	102.88	0.35	2.39E+001	139.51	6.73E+003
	13	570-	583	576.20	143.89	1.16	8.08E+002	138.47	6.65E+003
	14	651-	660	654.44	163.44	0.99	1.38E+002	100.93	4.43E+003
	15	736-	756	744.88	186.05	1.21	7.57E+003	194.70	8.30E+003
M	16	939-	979	944.80	236.01	1.09	7.16E+002	54.61	3.53E+003
m	17	939-	979	954.41	238.41	1.10	3.92E+002	49.81	3.72E+003
m	18	939-	979	968.67	241.98	1.10	7.89E+003	104.62	3.47E+003
M	19	1017-	1045	1025.06	256.07	1.08	3.01E+002	46.97	3.12E+003
m	20	1017-	1045	1035.94	258.79	1.09	5.39E+002	53.26	3.06E+003
M	21	1065-	1105	1078.56	269.44	1.04	6.81E+002	50.15	2.68E+003
m	22	1065-	1105	1085.33	271.13	1.04	4.93E+002	46.25	2.65E+003
m	23	1065-	1105	1098.90	274.52	1.05	2.77E+002	43.34	2.82E+003
	24	1117-	1130	1126.32	281.38	1.18	5.16E+001	87.01	2.73E+003
	25	1174-	1191	1181.36	295.13	1.12	1.76E+004	167.26	3.18E+003
	26	1194-	1206	1200.88	300.01	0.81	1.70E+002	75.80	2.12E+003
	27	1314-	1324	1320.17	329.82	0.98	1.24E+002	64.36	1.69E+003
	28	1349-	1360	1353.93	338.26	0.77	1.74E+002	68.35	1.79E+003
	29	1400-	1417	1408.13	351.81	1.16	3.07E+004	196.40	2.45E+003
	30	1551-	1563	1556.29	388.83	0.43	1.47E+002	64.56	1.52E+003
M	31	1600-	1632	1606.92	401.49	1.10	2.83E+002	37.01	1.47E+003
m	32	1600-	1632	1621.61	405.16	1.10	2.07E+002	34.16	1.57E+003
	33	1815-	1824	1819.70	454.66	0.55	4.57E+001	44.01	8.37E+002
	34	1916-	1928	1922.43	480.34	1.08	2.50E+002	48.69	8.05E+002
	35	1937-	1960	1949.78	487.17	1.32	2.52E+002	80.91	1.57E+003
	36	2033-	2058	2043.37	510.57	2.04	7.37E+002	87.47	1.63E+003
	37	2132-	2141	2136.30	533.79	0.42	1.13E+002	37.82	5.82E+002
	38	2235-	2244	2239.70	559.63	0.91	2.72E+001	34.78	5.23E+002
	39	2287-	2300	2292.31	572.78	0.95	1.02E+002	44.75	6.88E+002
M	40	2314-	2337	2321.14	579.98	0.96	1.77E+002	26.19	6.56E+002
m	41	2314-	2337	2332.95	582.94	0.96	9.88E+001	22.92	6.00E+002
	42	2425-	2448	2437.67	609.11	1.37	2.49E+004	171.33	1.11E+003

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	43	2654-	2671	2662.23	665.23	1.27	6.40E+002	53.50	6.82E+002
	44	2804-	2818	2812.32	702.74	1.17	1.61E+002	42.06	5.59E+002
	45	2872-	2892	2879.16	719.45	0.39	1.81E+002	50.50	6.51E+002
	46	3055-	3092	3074.15	768.17	1.47	2.58E+003	94.76	1.11E+003
	47	3137-	3157	3144.47	785.75	1.69	5.73E+002	55.52	6.85E+002
	48	3217-	3236	3225.29	805.95	1.36	5.16E+002	51.91	6.21E+002
	49	3346-	3366	3356.77	838.81	1.66	3.42E+002	50.86	6.19E+002
	50	3636-	3655	3644.76	910.78	1.15	1.10E+002	48.03	6.27E+002
	51	3728-	3747	3737.67	934.00	1.59	1.26E+003	55.09	5.05E+002
	52	3849-	3865	3857.47	963.94	1.18	1.24E+002	39.25	4.53E+002
	53	3992-	4014	4005.40	1000.91	0.96	4.05E+002	49.32	5.23E+002
	54	4198-	4217	4210.37	1052.14	1.41	1.45E+002	41.05	4.40E+002
	55	4275-	4290	4282.06	1070.06	0.38	6.35E+001	33.95	3.61E+002
	56	4472-	4494	4483.11	1120.30	1.66	5.53E+003	85.76	4.72E+002
	57	4613-	4634	4622.99	1155.26	1.36	6.27E+002	46.12	4.00E+002
	58	4827-	4840	4833.19	1207.80	0.95	8.53E+001	28.48	2.63E+002
	59	4903-	4914	4908.68	1226.66	0.33	2.37E+001	22.15	1.84E+002
	60	4943-	4970	4955.10	1238.26	1.53	2.12E+003	63.55	4.26E+002
	61	5116-	5136	5126.48	1281.09	1.73	4.93E+002	39.61	2.97E+002
	62	5502-	5526	5514.32	1378.02	1.67	1.50E+003	52.98	3.18E+002
	63	5532-	5555	5544.80	1385.64	1.27	2.47E+002	39.80	3.34E+002
M	64	5594-	5644	5609.73	1401.87	1.81	3.92E+002	24.45	2.91E+002
m	65	5594-	5644	5635.72	1408.36	1.81	7.94E+002	32.76	2.73E+002
	66	5660-	5672	5665.29	1415.75	0.44	2.30E+000	23.04	1.99E+002
	67	5838-	5857	5847.31	1461.24	1.76	1.95E+002	35.68	3.08E+002
	68	6030-	6052	6041.23	1509.71	1.75	6.36E+002	46.09	3.83E+002
	69	6114-	6131	6120.77	1529.58	0.30	1.96E+001	26.50	2.09E+002
M	70	6152-	6189	6159.41	1539.24	1.58	9.74E+001	17.62	2.67E+002
m	71	6152-	6189	6178.34	1543.97	1.58	1.27E+002	18.06	2.65E+002
	72	6328-	6352	6338.02	1583.88	0.61	1.84E+002	36.97	2.85E+002
	73	6395-	6410	6403.27	1600.19	0.51	6.36E+001	23.55	1.63E+002
	74	6640-	6661	6650.77	1662.04	2.04	3.06E+002	29.55	1.51E+002
	75	6730-	6750	6742.06	1684.86	0.73	7.02E+001	20.08	9.18E+001
	76	6769-	6789	6777.02	1693.59	1.01	7.07E+001	23.34	1.29E+002
	77	6909-	6940	6924.81	1730.53	1.69	1.09E+003	38.56	8.00E+001
	78	7050-	7080	7064.72	1765.50	1.98	4.86E+003	73.81	1.20E+002
	79	7350-	7370	7360.51	1839.42	0.65	7.89E+001	18.74	7.41E+001
	80	7384-	7410	7397.19	1848.59	1.99	7.04E+002	33.46	9.47E+001

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: HTC-A02-S001-0006-01
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	1.1110E+000	1.11E+000	1.2563E+000
	Co-60	1173.23	99.85	1.3266E-001	1.32E-001	4.6477E-002
		1332.49	99.98	1.3179E-001		-6.8171E-002
>		2505.71	0.10	0.0000E+000		0.0000E+000
	Cs-137	32.06	5.54	9.9417E+003	1.50E-001	5.9817E+002
		661.66	84.99	1.5040E-001		-2.0435E-003
+	Tl-208	72.80	2.02	1.8120E+001	7.71E-002	-4.2613E-001
		74.97*	3.41	6.2964E+000		5.3918E+001
		84.90*	1.51	1.0504E+001		3.9258E+001
		277.36	6.31	2.3039E+000		1.8259E-001
		510.77*	22.60	6.4024E-001		9.1843E-001
		583.19*	84.50	7.7103E-002		4.3053E-002
		763.13	1.81	9.8347E+000		-1.0193E-001
		860.56	12.42	1.0390E+000		4.1589E-001
	Bi-212	39.86	1.06	1.8907E+003	1.75E+000	-5.0691E+002
		727.33	6.74	1.7452E+000		-1.4025E-001
		785.37	1.11	1.2871E+001		3.0097E+001
		1620.74	1.51	8.4136E+000		3.5293E+000
		1806.00	0.09	9.2114E+001		-1.7116E+001
+	Pb-212	74.81*	10.40	2.0645E+000	2.28E-001	1.7679E+001
		77.11*	17.50	1.1207E+000		6.1548E+000
		87.30*	7.81	1.8738E+000		3.9016E+000
		115.18	0.59	2.4927E+001		-2.8134E-001
		238.63*	43.30	2.2844E-001		2.0905E-001
		300.09*	3.28	2.9492E+000		1.4299E+000
+	Bi-214	76.86*	0.43	4.4187E+001	2.69E-001	2.4266E+002
		89.81*	0.24	5.4492E+001		6.4487E+001
		386.77	0.30	4.3378E+001		2.7537E+001
		454.77*	0.29	2.3478E+001		5.2372E+000
		609.31*	45.49	2.6891E-001		2.1328E+001
		665.45*	1.53	5.9849E+000		1.7271E+001
		703.11*	0.48	1.6901E+001		1.4383E+001
		719.86*	0.39	2.5349E+001		2.0080E+001
		768.36*	4.89	3.4872E+000		2.4051E+001
		786.10*	0.31	3.5198E+001		8.5653E+001
		806.17*	1.26	8.2105E+000		1.9297E+001
		934.06*	3.10	3.3836E+000		2.1498E+001
		964.08*	0.36	2.6523E+001		1.8532E+001
		1051.96*	0.31	3.4167E+001		2.6752E+001
		1120.29*	14.91	8.2674E-001		2.2680E+001

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Bi-214	1133.66	0.25	5.1404E+001	2.69E-001	-8.4020E+000
		1155.19*	1.63	7.0074E+000		2.4056E+001
		1207.68*	0.45	1.8438E+001		1.2292E+001
		1238.11*	5.79	2.3633E+000		2.4194E+001
		1280.96*	1.43	7.3807E+000		2.3467E+001
		1377.67*	4.00	3.0693E+000		2.6868E+001
		1385.31*	0.76	1.6430E+001		2.3532E+001
		1401.50*	1.27	6.5745E+000		2.2439E+001
		1407.98*	2.15	3.7781E+000		2.6910E+001
		1509.23*	2.11	6.5802E+000		2.2975E+001
		1538.50*	0.38	2.2585E+001		1.9978E+001
		1543.32*	0.20	4.2400E+001		4.8950E+001
		1583.22*	0.69	1.8462E+001		2.0839E+001
		1594.73	0.25	5.6006E+001		1.9095E+001
		1599.31*	0.23	3.6223E+001		2.1781E+001
		1661.28*	1.15	7.9092E+000		2.1322E+001
		1683.99*	0.22	3.2703E+001		2.6206E+001
		1729.59*	2.92	2.6711E+000		3.0335E+001
		1764.49	15.40	2.5153E+000		2.5947E+001
		1847.42	2.11	8.0767E+000		2.6462E+001
		1873.16	0.22	4.4630E+001		1.4010E+001
>		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	9.8307E+001	3.20E-001	5.5703E+000
		74.81*	6.44	3.1998E+000		2.7401E+001
		77.11*	10.80	1.7429E+000		9.5718E+000
		87.30*	4.84	2.9019E+000		6.0423E+000
		242.00*	7.43	1.2421E+000		2.5125E+001
		258.87*	0.52	1.7149E+001		2.5205E+001
		274.80*	0.47	1.8789E+001		1.4809E+001
		295.22*	19.30	6.4907E-001		2.3998E+001
		351.93*	37.60	3.1984E-001		2.3518E+001
		462.00	0.22	5.3672E+001		-2.0324E+001
		533.66*	0.19	3.3252E+001		2.1815E+001
		785.96*	1.07	1.0197E+001		2.4815E+001
		839.04*	0.59	1.8468E+001		2.8313E+001
+	Ra-224	81.07*	0.13	1.3100E+002	2.35E+000	4.1263E+001
		83.78*	0.22	7.3092E+001		2.7318E+002
		240.99*	4.10	2.3452E+000		4.7440E+001
+	Ra-226	81.07*	0.20	8.3607E+001	4.70E+000	2.6335E+001
		83.78*	0.33	4.6411E+001		1.7346E+002
		94.90*	0.15	8.1890E+001		8.4939E+001
		186.21*	3.59	4.6975E+000		4.3396E+001
	Ac-228	99.50	1.26	1.2755E+001	5.45E-001	-2.0846E+000
		129.07	2.50	6.1138E+000		2.1416E+000
		209.25	3.97	3.8094E+000		5.9520E-001
		270.24	3.55	4.3839E+000		3.5034E+000
		328.00	3.04	4.6782E+000		2.6685E+000
		338.32	11.40	1.2541E+000		5.1564E-001
		409.46	2.02	6.6900E+000		1.6974E+000

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
	Ac-228	463.00	4.45	2.8572E+000	5.45E-001	6.2106E-001
		755.31	1.03	1.1719E+001		4.9928E+000
		772.29	1.52	1.2619E+001		2.1645E-001
		794.94	4.31	2.8086E+000		1.2081E+000
		835.70	1.70	8.4110E+000		2.3095E+000
		911.20	26.20	5.4480E-001		1.5287E-001
		964.79	4.99	2.8059E+000		2.4551E+000
		968.96	15.90	8.8094E-001		6.0395E-002
		1588.20	3.06	5.1291E+000		2.0746E+000
		1630.62	1.52	7.7134E+000		4.3320E+000
	Th-228	84.37*	1.26	1.2588E+001	1.26E+001	4.7048E+001
		131.61	0.13	1.1675E+002		-4.6406E+001
		166.41	0.10	1.4711E+002		6.0502E+000
		215.98	0.25	5.8416E+001		-1.8208E+001
+	Pa-234m	258.23*	0.07	1.2176E+002	1.40E+001	1.7895E+002
		742.81	0.09	1.2688E+002		6.8685E+001
		766.36	0.32	5.8287E+001		-2.5934E+000
		786.27*	0.05	2.0356E+002		4.9536E+002
		1001.03*	0.85	1.4002E+001		2.6425E+001
		1737.77	0.02	7.1988E+002		-4.9688E+001
+	Th-234	63.30*	3.75	1.5259E+001	2.93E+000	2.0967E+001
		92.59*	4.33	2.9319E+000		3.6888E+001
		112.81	0.22	6.6965E+001		-1.0025E+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

****
***** 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: HTC-A02-S001-0006-01
Nuclide Library Used: C:\GENIE2K\CAMFILES\ERT_LIBRARY_LMDA.NLB

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

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
K-40	0.972	1460.82*		10.55	1.25633E+000	2.55320E-001
Eu-152m	0.999	89.85*		69.90	2.26406E-001	1.53209E-002
Gd-153	0.883	69.67		2.42		
		97.43*		29.00	3.53452E-001	5.66325E-002
		103.18*		21.10	2.70447E-002	1.57683E-001
Tm-170	0.987	84.25*		2.48	2.87252E+001	2.02207E+000
Tl-208	0.729	72.80	@	2.02		
		74.97*	@	3.41	5.39183E+001	2.06654E+000
		84.90*	@	1.51	3.92584E+001	2.36764E+000
		277.36		6.31		
		510.77*	@	22.60	9.18433E-001	1.45074E-001
		583.19*		84.50	4.30526E-002	1.08795E-002
		763.13	@	1.81		
		860.56		12.42		
Bi-211	0.908	351.03*		13.00	6.82634E+001	2.50177E+000
Pb-212	0.982	74.81*		10.40	1.76790E+001	8.48052E-001
		77.11*		17.50	6.15483E+000	3.45080E-001
		87.30*		7.81	3.90155E+000	2.39545E-001
		115.18	@	0.59		
		238.63*		43.30	2.09046E-001	2.90221E-002
		300.09*		3.28	1.42990E+000	6.40657E-001
Bi-214	0.794	76.86*	@	0.43	2.42665E+002	1.38519E+001
		89.81*	@	0.24	6.44873E+001	4.93911E+000
		386.77	@	0.30		
		454.77*	@	0.29	5.23716E+000	5.04587E+000
		609.31*		45.49	2.13278E+001	6.46450E-001
		665.45*	@	1.53	1.72710E+001	1.52072E+000
		703.11*	@	0.48	1.43829E+001	3.79089E+000
		719.86*	@	0.39	2.00805E+001	5.63653E+000
		768.36*		4.89	2.40515E+001	1.06395E+000
		786.10*	@	0.31	8.56528E+001	1.62452E+001
		806.17*	@	1.26	1.92971E+001	1.99520E+000
		934.06*		3.10	2.14983E+001	1.06123E+000
		964.08*	@	0.36	1.85322E+001	5.90518E+000
		1051.96*	@	0.31	2.67517E+001	7.65683E+000
		1120.29*		14.91	2.26799E+001	6.53823E-001
		1133.66	@	0.25		
		1155.19*	@	1.63	2.40555E+001	1.86688E+000
		1207.68*	@	0.45	1.22924E+001	4.13753E+000
		1238.11*		5.79	2.41945E+001	1.00412E+000
		1280.96*	@	1.43	2.34669E+001	2.00152E+000

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Bi-214	0.794	1377.67*	4.00	2.68682E+001	1.23497E+000
		1385.31* @	0.76	2.35323E+001	3.87294E+000
		1401.50* @	1.27	2.24391E+001	1.54905E+000
		1407.98* @	2.15	2.69099E+001	1.44313E+000
		1509.23* @	2.11	2.29747E+001	1.81531E+000
		1538.50* @	0.38	1.99783E+001	3.72215E+000
		1543.32* @	0.20	4.89497E+001	1.41406E+001
		1583.22* @	0.69	2.08392E+001	4.25130E+000
		1594.73 @	0.25		
		1599.31* @	0.23	2.17813E+001	9.88326E+000
		1661.28* @	1.15	2.13218E+001	2.21284E+000
		1683.99* @	0.22	2.62060E+001	7.57082E+000
		1729.59* @	2.92	3.03350E+001	1.48004E+000
		1764.49	15.40		
		1847.42 @	2.11		
		1873.16 @	0.22		
		2118.55 @	1.14		
		2204.21 @	5.08		
Pb-214	0.986	53.28 @	1.20		
		74.81*	6.44	2.74010E+001	1.37887E+000
		77.11*	10.80	9.57178E+000	5.82140E-001
		87.30*	4.84	6.04235E+000	3.88221E-001
		242.00*	7.43	2.51249E+001	9.38864E-001
		258.87* @	0.52	2.52052E+001	2.67186E+000
		274.80* @	0.47	1.48085E+001	2.38719E+000
		295.22*	19.30	2.39975E+001	8.48236E-001
		351.93*	37.60	2.35178E+001	8.29049E-001
		462.00 @	0.22		
		533.66* @	0.19	2.18148E+001	7.43951E+000
		785.96* @	1.07	2.48153E+001	3.09421E+000
		839.04* @	0.59	2.83128E+001	4.29006E+000
Rn-219	0.980	76.86* @	0.56	1.85257E+002	3.10858E+001
		79.29* @	0.93	1.21499E+001	2.39561E+000
		89.80* @	0.42	3.75977E+001	6.75540E+000
		130.60 @	0.13		
		271.23*	10.80	1.15268E+000	1.36482E-001
		401.81*	6.60	1.32791E+000	2.05626E-001
Ra-224	0.865	81.07* @	0.13	4.12633E+001	5.44833E+000
		83.78* @	0.22	2.73181E+002	1.93097E+001
		240.99*	4.10	4.74402E+001	1.72743E+000
Ra-226	0.996	81.07* @	0.20	2.63349E+001	3.45779E+000
		83.78* @	0.33	1.73460E+002	1.22356E+001
		94.90* @	0.15	8.49392E+001	1.14448E+001
		186.21*	3.59	4.33963E+001	1.85243E+000
Th-227	0.499	50.13	8.40		
		79.69* @	1.95	5.79458E+000	8.47326E-001
		85.43 @	1.29		
		88.47 @	2.12		
		93.88* @	1.51	8.41132E+000	1.33339E+000
		210.62 @	1.25		

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Th-227	0.499	235.96*		12.90	1.29924E+000	1.61601E-001
		256.23*		7.00	1.05306E+000	1.97935E-001
		286.09	@	1.74		
		289.59	@	1.90		
		299.98*		2.21	2.04407E+000	9.34142E-001
		304.50	@	1.15		
		329.85*		2.90	1.20025E+000	6.34487E-001
		334.37	@	1.14		
Pa-234m	0.481	258.23*	@	0.07	1.78955E+002	1.86953E+001
		742.81	@	0.09		
		766.36		0.32		
		786.27*	@	0.05	4.95356E+002	4.98518E+001
		1001.03*		0.85	2.64249E+001	3.31863E+000
		1737.77	@	0.02		
Th-234	0.943	63.30*		3.75	2.09666E+001	3.41873E+000
		92.59*		4.33	3.68878E+001	2.05229E+000
		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
	K-40		0.972	1.256329E+000	2.553197E-001
X	Cd-109		0.917		
	Eu-152m		0.999	1.389357E-001	1.525626E-002
	Gd-153		0.883	3.161585E-001	5.329914E-002
	Tm-170		0.987	1.834864E+001	1.764357E+000
	Tl-208	@	0.729	4.402666E-002	1.087353E-002
	Bi-211		0.908	4.150212E+001	2.402181E+000
	Pb-212	@	0.982	1.806497E-001	2.888828E-002
	Bi-214	@	0.794	2.285381E+001	3.445300E-001
	Pb-214	@	0.986	9.219664E+000	2.453080E-001
	Rn-219	@	0.980	1.201236E+000	9.633408E-002
X	Ra-223		0.718		
	Ra-224	@	0.865	3.003182E+001	1.692294E+000
	Ra-226	@	0.996	4.339625E+001	1.704544E+000
	Th-227	@	0.499	1.232410E+000	8.899058E-002
X	Th-228		0.485		
X	Th-231		0.993		
	Pa-234m	@	0.481	2.642493E+001	3.318626E+000
	Th-234	@	0.943	3.267019E+001	1.759588E+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: 6/25/2017 10:49:53 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
13	143.89	1.1097E-001	17.33	Sum	
14	163.44	1.9191E-002	73.04	Sum	
M 21	269.44	9.4619E-002	7.36	Sum	
24	281.38	7.1613E-003	168.74	Sum	
28	338.26	2.4162E-002	39.29	Sum	
30	388.83	2.0386E-002	43.98		
m 32	405.16	2.8779E-002	16.49	Sum	
34	480.34	3.4789E-002	19.44	Sum	
35	487.17	3.4936E-002	32.17	D-Esc.	
38	559.63	3.7722E-003	128.06	Sum	
39	572.78	1.4188E-002	43.80	Sum	
M 40	579.98	2.4554E-002	14.82		
50	910.78	1.4530E-002	45.95	Tol.	Ac-228
55	1070.06	8.8248E-003	53.44		
59	1226.66	3.2893E-003	93.54		
66	1415.75	3.1993E-004	1000.15	Sum	
69	1529.58	2.7233E-003	135.16	Tol.	Rh-106
76	1693.59	9.8142E-003	33.02	Sum	
78	1765.50	6.7470E-001	1.52	Sum	
79	1839.42	1.0957E-002	23.76	Sum	
80	1848.59	9.7823E-002	4.75	Sum	

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

Errors quoted at 1.000 sigma