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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-HTC-A01-S005-0006-01.CNF

Report Generated On              : 6/12/2017   6:09:18 PM

Sample Title                     : HTC-A01-S005-0006-01
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                      :  8.679E+002 GWET

Sample Taken On                  : 5/13/2017  10:01:00 AM
Acquisition Started              : 6/12/2017   4:09:11 PM

Live Time                        :     7200.0 seconds
Real Time                        :     7204.5 seconds

Dead Time                        :   0.06 %


            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-A01-S005-0006-01
Peak Analysis Performed on: 6/12/2017 6:09:18 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	241-	263	253.86	63.33	1.10	5.09E+002	107.63	2.86E+003
M	2	287-	321	300.04	74.87	0.98	1.25E+003	48.64	1.76E+003
m	3	287-	321	309.13	77.14	0.98	2.18E+003	59.30	1.97E+003
m	4	287-	321	317.33	79.19	0.99	7.88E+001	34.38	1.70E+003
M	5	330-	385	336.18	83.90	1.13	4.13E+002	39.91	1.74E+003
m	6	330-	385	349.60	87.26	1.14	8.79E+002	46.80	1.94E+003
m	7	330-	385	360.79	90.06	1.14	4.50E+002	39.29	1.88E+003
m	8	330-	385	371.42	92.71	1.15	1.38E+003	52.18	1.82E+003
	9	391-	404	395.25	98.67	0.42	5.74E+001	67.00	1.60E+003
	10	568-	591	576.57	143.98	1.21	2.03E+002	109.64	2.95E+003
	11	650-	660	654.33	163.42	0.52	1.06E+002	54.47	1.20E+003
	12	738-	754	744.75	186.01	1.20	2.10E+003	86.97	1.73E+003
M	13	939-	981	943.98	235.81	1.07	1.69E+002	28.01	9.04E+002
m	14	939-	981	955.06	238.57	1.07	1.41E+003	45.98	1.01E+003
m	15	939-	981	968.43	241.91	1.07	2.19E+003	53.91	9.17E+002
	16	1030-	1047	1035.54	258.69	0.79	1.16E+002	58.74	1.02E+003
	17	1172-	1191	1181.12	295.07	1.16	4.58E+003	90.15	1.01E+003
	18	1197-	1204	1200.65	299.95	0.94	6.30E+001	29.80	4.09E+002
	19	1345-	1360	1353.56	338.17	1.24	3.06E+002	46.25	6.10E+002
	20	1396-	1421	1407.92	351.75	1.18	8.33E+003	108.57	8.14E+002
	21	1551-	1560	1555.26	388.58	0.74	3.24E+001	27.96	3.31E+002
	22	1628-	1642	1637.60	409.16	0.26	1.18E+000	35.21	4.28E+002
	23	1846-	1858	1852.18	462.78	0.87	7.76E+001	29.65	3.04E+002
	24	2031-	2056	2042.57	510.36	2.02	4.50E+002	48.09	4.38E+002
	25	2129-	2140	2133.86	533.18	0.58	4.61E+001	21.94	1.73E+002
M	26	2308-	2346	2319.84	579.66	1.41	6.98E+001	14.96	2.56E+002
m	27	2308-	2346	2332.90	582.92	1.41	5.37E+002	28.14	2.66E+002
	28	2427-	2449	2437.15	608.98	1.39	6.03E+003	85.52	3.32E+002
M	29	2638-	2670	2646.42	661.28	1.40	1.33E+002	16.72	2.01E+002
m	30	2638-	2670	2662.01	665.17	1.40	1.64E+002	17.95	2.06E+002
	31	2873-	2888	2880.40	719.75	0.92	4.81E+001	23.63	1.69E+002
	32	2902-	2917	2909.08	726.92	1.04	9.89E+001	25.70	1.87E+002
	33	3061-	3083	3073.60	768.04	1.25	4.84E+002	41.26	3.14E+002
	34	3135-	3154	3143.71	785.56	1.49	1.58E+002	29.29	2.00E+002
	35	3174-	3186	3179.54	794.52	0.35	3.36E+001	19.72	1.34E+002
	36	3217-	3234	3224.67	805.79	1.45	1.16E+002	26.18	1.74E+002
	37	3351-	3365	3356.61	838.77	1.04	9.40E+001	20.74	1.16E+002
	38	3436-	3450	3441.58	860.00	0.32	6.90E+001	22.98	1.56E+002
	39	3492-	3503	3497.08	873.87	0.26	6.73E+000	18.03	1.27E+002
	40	3637-	3655	3645.15	910.88	1.81	3.67E+002	30.17	1.60E+002
	41	3728-	3746	3736.71	933.76	1.05	2.59E+002	28.68	1.65E+002
M	42	3850-	3885	3858.13	964.11	1.37	9.18E+001	13.79	1.45E+002

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m	43	3850-	3885	3875.96	968.56	1.37	1.89E+002	17.45	1.45E+002
	44	3999-	4013	4005.67	1000.98	1.18	9.93E+001	21.09	1.19E+002
	45	4468-	4496	4482.26	1120.09	1.60	1.31E+003	49.40	2.43E+002
	46	4609-	4632	4622.10	1155.04	1.49	1.67E+002	29.50	1.76E+002
	47	4829-	4841	4834.45	1208.11	0.53	5.74E+000	17.29	1.09E+002
	48	4944-	4967	4954.37	1238.08	1.36	4.63E+002	34.62	1.85E+002
	49	5117-	5138	5126.12	1281.00	0.93	1.01E+002	25.04	1.40E+002
	50	5504-	5525	5513.23	1377.75	1.24	3.40E+002	26.51	9.68E+001
	51	5535-	5550	5543.03	1385.20	0.73	8.83E+001	15.01	4.57E+001
M	52	5596-	5645	5608.40	1401.54	1.93	1.46E+002	14.04	5.83E+001
m	53	5596-	5645	5634.48	1408.05	1.93	1.73E+002	15.55	8.32E+001
	54	5834-	5860	5846.21	1460.97	1.71	1.81E+003	46.75	8.76E+001
	55	6030-	6051	6040.29	1509.47	1.56	1.86E+002	22.60	8.67E+001
M	56	6328-	6362	6336.01	1583.38	0.90	1.91E+001	7.88	5.40E+001
m	57	6328-	6362	6356.34	1588.46	0.90	1.62E+001	6.67	4.30E+001
	58	6481-	6494	6487.25	1621.18	0.97	1.17E+001	9.69	2.93E+001
	59	6518-	6531	6524.92	1630.59	0.55	1.82E+001	9.38	2.48E+001
	60	6641-	6658	6650.04	1661.86	0.34	7.95E+001	14.35	3.85E+001
	61	6914-	6935	6923.35	1730.17	2.11	2.19E+002	19.00	3.77E+001
	62	7050-	7076	7063.12	1765.10	1.71	1.11E+003	34.86	2.37E+001
	63	7353-	7366	7359.00	1839.04	0.47	2.62E+001	7.99	1.28E+001
	64	7385-	7408	7395.82	1848.24	1.56	1.60E+002	16.57	2.77E+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-A01-S005-0006-01
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	6.8781E-001	6.88E-001	1.2914E+001
	Co-60	1173.23	99.85	8.4893E-002	8.14E-002	-6.6371E-003
		1332.49	99.98	8.1430E-002		6.5367E-002
>		2505.71	0.10	0.0000E+000		0.0000E+000
+	Cs-137	32.06	5.54	5.5584E+003	4.73E-002	-2.4387E+002
		661.66*	84.99	4.7311E-002		6.5696E-002
+	Tl-208	72.80	2.02	9.9998E+000	5.24E-002	5.2785E-001
		74.97*	3.41	3.2460E+000		1.4561E+001
		84.90*	1.51	5.4716E+000		8.1593E+000
		277.36	6.31	1.2263E+000		7.7579E-001
		510.77*	22.60	3.4992E-001		4.5759E-001
		583.19*	84.50	5.2416E-002		2.4998E-001
		763.13	1.81	5.5044E+000		5.0006E-001
		860.56*	12.42	4.2827E-001		2.8872E-001
+	Bi-212	39.86	1.06	1.0441E+003	7.70E-001	4.3543E+002
		727.33*	6.74	7.7009E-001		6.7434E-001
		785.37*	1.11	5.4997E+000		6.9267E+000
		1620.74*	1.51	2.4710E+000		6.4663E-001
		1806.00	0.09	5.4796E+001		-9.1957E+000
+	Pb-212	74.81*	10.40	1.0643E+000	1.21E-001	4.7742E+000
		77.11*	17.50	6.1357E-001		4.5495E+000
		87.30*	7.81	1.0348E+000		3.1123E+000
		115.18	0.59	1.2510E+001		-6.5745E-002
		238.63*	43.30	1.2118E-001		7.8857E-001
		300.09*	3.28	1.1565E+000		5.3453E-001
+	Bi-214	76.86*	0.43	2.4460E+001	1.48E-001	1.8137E+002
		89.81*	0.24	2.9993E+001		4.6843E+001
		386.77	0.30	2.3689E+001		1.1570E+001
		454.77	0.29	2.2351E+001		3.7825E+000
		609.31*	45.49	1.4803E-001		5.2616E+000
		665.45*	1.53	2.6673E+000		4.4950E+000
		703.11	0.48	1.3814E+001		5.8008E-001
		719.86*	0.39	1.2144E+001		5.4220E+000
		768.36*	4.89	1.5645E+000		4.5925E+000
		786.10*	0.31	1.9110E+001		2.4069E+001
		806.17*	1.26	4.3265E+000		4.4346E+000
		934.06*	3.10	1.9620E+000		4.4891E+000
		964.08*	0.36	1.2448E+001		1.3950E+001
		1051.96	0.31	2.5035E+001		6.1779E+000
		1120.29*	14.91	6.6288E-001		5.4929E+000

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Bi-214	1133.66	0.25	3.3063E+001	1.48E-001	1.1352E+001
		1155.19*	1.63	4.9205E+000		6.5186E+000
		1207.68*	0.45	1.2085E+001		8.4227E-001
		1238.11*	5.79	1.5013E+000		5.4027E+000
		1280.96*	1.43	5.2971E+000		4.8869E+000
		1377.67*	4.00	1.6680E+000		6.2181E+000
		1385.31*	0.76	5.5402E+000		8.5561E+000
		1401.50*	1.27	3.0828E+000		8.5028E+000
		1407.98*	2.15	2.1637E+000		5.9688E+000
		1509.23*	2.11	3.1802E+000		6.8526E+000
		1538.50	0.38	2.3504E+001		1.6253E+001
		1543.32	0.20	4.0441E+001		6.5372E+000
		1583.22*	0.69	5.8998E+000		2.2042E+000
		1594.73	0.25	3.4483E+001		2.9406E+001
		1599.31	0.23	3.4472E+001		8.9499E+000
		1661.28*	1.15	3.9049E+000		5.6447E+000
		1683.99	0.22	2.7259E+001		-4.7631E+000
		1729.59*	2.92	1.6496E+000		6.2311E+000
		1764.49*	15.40	2.8065E-001		5.9982E+000
		1847.42*	2.11	2.0983E+000		6.4157E+000
		1873.16	0.22	2.6600E+001		-2.6309E+000
>		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	5.4051E+001	2.16E-001	1.8653E+001
		74.81*	6.44	1.6680E+000		7.4821E+000
		77.11*	10.80	9.6482E-001		7.1540E+000
		87.30*	4.84	1.6204E+000		4.8737E+000
		242.00*	7.43	6.5426E-001		7.0936E+000
		258.87*	0.52	1.2923E+001		5.5308E+000
		274.80	0.47	1.6310E+001		-1.4936E+001
		295.22*	19.30	3.8825E-001		6.3539E+000
		351.93*	37.60	2.1616E-001		6.5070E+000
		462.00*	0.22	2.0625E+001		1.1918E+001
		533.66*	0.19	1.9666E+001		9.0942E+000
		785.96*	1.07	5.5367E+000		6.9732E+000
		839.04*	0.59	7.4191E+000		7.9270E+000
+	Ra-224	81.07	0.13	1.0354E+002	1.22E+000	-4.9975E+000
		83.78*	0.22	3.8074E+001		5.6777E+001
		240.99*	4.10	1.2218E+000		1.3246E+001
+	Ra-226	81.07	0.20	6.6814E+001	2.05E+000	-3.2250E+000
		83.78*	0.33	2.4445E+001		3.6452E+001
		94.90	0.15	6.9302E+001		1.2137E+000
		186.21*	3.59	2.0509E+000		1.2047E+001
+	Ac-228	99.50*	1.26	5.7382E+000	2.33E-001	1.0555E+000
		129.07	2.50	3.1187E+000		2.4155E-001
		209.25	3.97	1.9719E+000		-7.9789E-001
		270.24	3.55	2.3259E+000		1.2628E+000
		328.00	3.04	2.4972E+000		1.1090E+000
		338.32*	11.40	5.2505E-001		7.9529E-001
		409.46*	2.02	2.6977E+000		1.9134E-002

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Ac-228	463.00*	4.45	1.0555E+000	2.33E-001	6.0987E-001
		755.31	1.03	7.0643E+000		-8.6061E-002
		772.29	1.52	6.7977E+000		1.8894E+000
		794.94*	4.31	1.0270E+000		3.8164E-001
		835.70	1.70	4.7519E+000		6.1345E+000
		911.20*	26.20	2.3254E-001		7.4942E-001
		964.79*	4.99	9.3312E-001		1.0457E+000
		968.96*	15.90	2.9383E-001		6.7805E-001
		1588.20*	3.06	1.2329E+000		4.3610E-001
		1630.62*	1.52	2.2813E+000		9.9662E-001
	Th-228	84.37*	1.26	6.5573E+000	6.56E+000	9.7782E+000
		131.61	0.13	5.9574E+001		3.6405E+000
		166.41	0.10	7.5122E+001		9.2142E+000
		215.98	0.25	2.9842E+001		-1.2705E+001
+	Pa-234m	258.23*	0.07	9.1750E+001	6.04E+000	3.9269E+001
		742.81	0.09	7.1007E+001		2.4856E+001
		766.36	0.32	3.1446E+001		6.7189E+001
		786.27*	0.05	1.1052E+002		1.3920E+002
		1001.03*	0.85	6.0426E+000		6.3930E+000
		1737.77	0.02	3.4146E+002		2.9120E+001
+	Th-234	63.30*	3.75	9.5743E+000	1.61E+000	9.1983E+000
		92.59*	4.33	1.6130E+000		7.3369E+000
		112.81	0.22	3.4348E+001		1.1235E+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 *****
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Sample Title: HTC-A01-S005-0006-01
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	0.997	1460.82*		10.55	1.29136E+001	4.86276E-001
Cs-137	0.976	32.06	@	5.54		
		661.66*		84.99	6.56961E-002	8.44729E-003
Eu-152m	0.993	89.85*		69.90	1.64204E-001	1.50459E-002
Tl-208	0.849	72.80	@	2.02		
		74.97*	@	3.41	1.45607E+001	7.16856E-001
		84.90*	@	1.51	8.15929E+000	8.20870E-001
		277.36		6.31		
		510.77*	@	22.60	4.57594E-001	8.05047E-002
		583.19*		84.50	2.49976E-001	1.54294E-002
		763.13	@	1.81		
		860.56*		12.42	2.88719E-001	9.64224E-002
Bi-211	0.920	351.03*		13.00	1.88691E+001	7.23987E-001
Bi-212	0.945	39.86	@	1.06		
		727.33*		6.74	6.74340E-001	1.76539E-001
		785.37*		1.11	6.92666E+000	1.29387E+000
		1620.74*		1.51	6.46633E-001	5.34201E-001
		1806.00	@	0.09		
Pb-212	0.986	74.81*		10.40	4.77422E+000	2.72420E-001
		77.11*		17.50	4.54951E+000	2.24642E-001
		87.30*		7.81	3.11234E+000	2.10828E-001
		115.18	@	0.59		
		238.63*		43.30	7.88566E-001	3.68940E-002
		300.09*		3.28	5.34533E-001	2.53544E-001
Bi-214	0.941	76.86*	@	0.43	1.81369E+002	9.16413E+000
		89.81*	@	0.24	4.68431E+001	4.60941E+000
		386.77	@	0.30		
		454.77	@	0.29		
		609.31*		45.49	5.26159E+000	1.72345E-001
		665.45*	@	1.53	4.49502E+000	5.08583E-001
		703.11	@	0.48		
		719.86*	@	0.39	5.42204E+000	2.67056E+000
		768.36*		4.89	4.59247E+000	4.07383E-001
		786.10*	@	0.31	2.40689E+001	5.93611E+000
		806.17*	@	1.26	4.43460E+000	1.00264E+000
		934.06*		3.10	4.48906E+000	5.08070E-001
		964.08*	@	0.36	1.39501E+001	2.16944E+000
		1051.96	@	0.31		
		1120.29*		14.91	5.49293E+000	2.45741E-001
		1133.66	@	0.25		
		1155.19*	@	1.63	6.51855E+000	1.16315E+000

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Bi-214	0.941	1207.68* @	0.45	8.42268E-001	2.53823E+000
		1238.11*	5.79	5.40272E+000	4.32207E-001
		1280.96* @	1.43	4.88685E+000	1.22093E+000
		1377.67*	4.00	6.21810E+000	5.17734E-001
		1385.31* @	0.76	8.55609E+000	1.48500E+000
		1401.50* @	1.27	8.50280E+000	8.55809E-001
		1407.98* @	2.15	5.96878E+000	5.74310E-001
		1509.23* @	2.11	6.85259E+000	8.58701E-001
		1538.50 @	0.38		
		1543.32 @	0.20		
		1583.22* @	0.69	2.20415E+000	9.13879E-001
		1594.73 @	0.25		
		1599.31 @	0.23		
		1661.28* @	1.15	5.64471E+000	1.04119E+000
		1683.99 @	0.22		
		1729.59* @	2.92	6.23110E+000	5.78764E-001
		1764.49*	15.40	5.99821E+000	2.83306E-001
		1847.42* @	2.11	6.41574E+000	7.15437E-001
		1873.16 @	0.22		
		2118.55 @	1.14		
		2204.21 @	5.08		
Pb-214	0.979	53.28 @	1.20		
		74.81*	6.44	7.48205E+000	4.41831E-001
		77.11*	10.80	7.15401E+000	3.91417E-001
		87.30*	4.84	4.87374E+000	3.42797E-001
		242.00*	7.43	7.09357E+000	3.03252E-001
		258.87* @	0.52	5.53080E+000	2.80672E+000
		274.80 @	0.47		
		295.22*	19.30	6.35389E+000	2.49902E-001
		351.93*	37.60	6.50695E+000	2.40998E-001
		462.00* @	0.22	1.19175E+001	4.59412E+000
		533.66* @	0.19	9.09420E+000	4.35858E+000
		785.96* @	1.07	6.97323E+000	1.40163E+000
		839.04* @	0.59	7.92704E+000	1.76410E+000
Ra-224	0.839	81.07 @	0.13		
		83.78* @	0.22	5.67766E+001	6.08348E+000
		240.99*	4.10	1.32464E+001	5.55264E-001
Ra-226	0.878	81.07 @	0.20		
		83.78* @	0.33	3.64524E+001	3.90227E+000
		94.90 @	0.15		
		186.21*	3.59	1.20472E+001	6.55247E-001
Ac-228	0.616	99.50* @	1.26	1.05555E+000	1.23193E+000
		129.07 @	2.50		
		209.25	3.97		
		270.24	3.55		
		328.00	3.04		
		338.32*	11.40	7.95286E-001	1.26258E-001
		409.46* @	2.02	1.91344E-002	5.70979E-001
		463.00*	4.45	6.09873E-001	2.36089E-001
		755.31 @	1.03		

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Ac-228	0.616	772.29	@	1.52		
		794.94*		4.31	3.81637E-001	2.24663E-001
		835.70	@	1.70		
		911.20*		26.20	7.49415E-001	6.89296E-002
		964.79*		4.99	1.04570E+000	1.62849E-001
		968.96*		15.90	6.78046E-001	6.79596E-002
		1588.20*		3.06	4.36102E-001	1.80756E-001
		1630.62*	@	1.52	9.96621E-001	5.16991E-001
Th-231	0.826	81.23	@	0.90		
		84.21*		6.60	1.81151E+000	2.12762E-001
		89.95*	@	1.00	1.14293E+001	1.24796E+000
Pa-234m	0.481	258.23*	@	0.07	3.92688E+001	1.99153E+001
		742.81	@	0.09		
		766.36		0.32		
		786.27*	@	0.05	1.39199E+002	2.60352E+001
		1001.03*		0.85	6.39303E+000	1.42935E+000
		1737.77	@	0.02		
Th-234	0.943	63.30*		3.75	9.19831E+000	2.11788E+000
		92.59*		4.33	7.33694E+000	4.75222E-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
	K-40		0.997	1.291362E+001	4.862758E-001
X	Cd-109		0.908		
	Cs-137	@	0.976	6.569611E-002	8.447287E-003
	Eu-152m		0.993	1.300348E-001	1.522074E-002
X	Tm-170		0.980		
	Tl-208	@	0.849	2.514980E-001	1.509815E-002
	Bi-211		0.920	2.901930E+000	7.936632E-001
	Bi-212	@	0.945	6.538042E-001	1.659064E-001
	Pb-212	@	0.986	7.561869E-001	3.518073E-002
	Bi-214	@	0.941	5.393330E+000	1.092084E-001
	Pb-214	@	0.979	5.506232E+000	1.470349E-001
	Ra-224	@	0.839	2.964165E+000	5.980067E-001
	Ra-226	@	0.878	1.204715E+001	6.235450E-001
	Ac-228	@	0.616	6.832632E-001	3.918757E-002
X	Th-228		0.479		
	Th-231	@	0.826	1.062410E+000	1.858769E-001
	Pa-234m	@	0.481	6.328407E+000	1.425980E+000
	Th-234	@	0.943	7.426165E+000	4.636924E-001

? = 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: 6/12/2017 6:09:18 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 4	79.19	1.0939E-002	43.65	Tol.	Ba-133 Rn-219 Th-227
10	143.98	2.6986E-002	56.44	Tol.	Ra-223
11	163.42	1.4699E-002	51.47	Sum	
M 13	235.81	2.3515E-002	16.55	Tol.	Th-227
21	388.58	4.5047E-003	86.20	Sum	
M 26	579.66	9.6964E-003	21.42	Sum	
39	873.87	9.3465E-004	268.00	S-Esc.	
63	1839.04	3.6325E-003	30.54	Sum	

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

Errors quoted at 1.000 sigma