VMS Calibration Report V1.5 Generated 8-OCT-1996 18:24:19

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 8-OCT-1996 18:21:43
Efficiency type : Empirical Effncy Calib Time: 8-OCT-1996 18:24:09
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.269	0.8752	0.1051	-9.9878E-02	0.0000E+00	0.0000E+00

Average Deviation = 2.72 % Reduced Chi-Square = 0.704

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.12E-02	2.29E-03	5.28E-02	-0.71	-3.18
2	122.10	5.86E-02	2.90E-03	5.54E-02	1.10	5.43
3	165.90	5.33E-02	2.32E-03	5.24E-02	0.39	1.71
4	279.20	3.90E-02	1.86E-03	4.02E-02	-0.65	-3.08
5	391.70	2.99E-02	1.36E-03	3.11E-02	-0.90	-4.09
6	661.60	2.04E-02	9.83E-04	1.96E-02	0.83	4.01
7	898.00	1.47E-02	6.34E-04	1.49E-02	-0.29	-1.23
8	1173.20	1.20E-02	5.23E-04	1.18E-02	0.33	1.43
9	1332.50	1.08E-02	5.03E-04	1.07E-02	0.26	1.22
10	1836.00	8.38E-03	3.98E-04	8.53E-03	-0.39	-1.84

oved by: B. MK Approval Date: 10 / 8 / 96

LL/281

VMS Calibration Report V1.5 Generated 8-OCT-1996 18:21:53

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 8-OCT-1996 18:21:43
Efficiency type : Empirical Effncy Calib Time: 8-OCT-1996 17:30:07
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -7.5710E-02 + 0.5003*Channel + -9.0924E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.25	88.00	88.09	-0.093
2	244.22	122.10	122.09	0.007
3	331.76	165.90	165.88	0.019
4	558.26	279.20	279.17	0.032
5	783.11	391.70	391.63	0.074
6	1322.99	661.60	661.60	-0.003
7	1795.77	898.00	897.98	0.018
8	2346.46	1173.20	1173.26	-0.061
9	2665.10	1332.50	1332.52	-0.019
10	3672.65	1836.00	1835.97	0.027

Approved by: B. MK Approval Date: 10 / 8 / 96

CAL

VMS Calibration Report V1.5 Generated 23-OCT-1996 10:21:01

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 23-OCT-1996 10:14:53
Efficiency type : Empirical Effncy Calib Time: 23-OCT-1996 10:20:53
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = expa2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5, x=lna1/energy

a1	a2	a3	a4	a5	a6	a7
962.0	-4.272	0.8623	0.1343	-0.1101	0.0000E+00	0.0000E+00

Average Deviation = 2.62 % Reduced Chi-Square = 0.696

Nbr	Energy keV	Measured Efficiency	Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.12E-02	2.30E-03	5.25E-02	-0.54	-2.41 ✓
2	122.10	5.74E-02	2.84E-03	5.57E-02	0.60	2.98
3	165.90	5.45E-02	2.38E-03	5.29E-02	0.66	2.87
4	279.20	3.98E-02	1.93E-03	4.04E-02	-0.34	-1.65
5	391.70	2.95E-02	1.36E-03	3.12E-02	-1.25	-5.77
6	661.60	2.04E-02	9.80E-04	1.95E-02	0.89	4.27 ✓
7	898.00	1.46E-02	6.34E-04	1.48E-02	-0.37	-1.61
8	1173.20	1.22E-02	5.29E-04	1.18E-02	0.59	2.58
9	1332.50	1.08E-02	5.02E-04	1.07E-02	0.06	0.28 ✓
10	1836.00	8.56E-03	4.07E-04	8.71E-03	-0.38	-1.79 ✓

Approved by: B. MK Approval Date: 10/23/96

VMS Calibration Report V1.5 Generated 23-OCT-1996 10:15:24

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 23-OCT-1996 10:14:53
Efficiency type : Empirical Effncy Calib Time: 23-OCT-1996 08:03:48
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -6.8160E-02 + 0.5003*Channel + -9.2154E-08*Channel**2

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.25	88.00	88.10	-0.101
2	244.21	122.10	122.10	0.003
3	331.75	165.90	165.89	0.014
4	558.18	279.20	279.14	0.059
5	783.10	391.70	391.64	0.064
6	1322.93	661.60	661.59	0.011
7	1795.77	898.00	898.00	-0.001
8	2346.39	1173.20	1173.24	-0.045
9	2665.09	1332.50	1332.53	-0.035
10	3672.60	1836.00	1835.97	0.031

Approved by: B. [illegible] Approval Date: 10/23/96

VMS Calibration Report V1.5 Generated 23-OCT-1996 10:18:50

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 23-OCT-1996 10:14:53
Efficiency type : Empirical Effncy Calib Time: 23-OCT-1996 08:03:48
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6614 + 3.1902E-02*Energy**1/2

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	1.02	0.96	0.060
2	122.10	1.04	1.01	0.029
3	165.90	1.08	1.07	0.007
4	279.20	1.18	1.19	-0.011
5	391.70	1.22	1.29	-0.069
6	661.60	1.41	1.48	-0.075
7	898.00	1.62	1.62	0.006
8	1173.20	1.79	1.75	0.039
9	1332.50	1.77	1.83	-0.051
10	1836.00	2.10	2.03	0.068

Approved by: B. M. K. Approval Date: 10/23/96

6 A

VMS Calibration Report V1.5 Generated 28-OCT-1996 11:45:01

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 28-OCT-1996 11:44:54
Efficiency type : Empirical Effncy Calib Time: 28-OCT-1996 10:29:35
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -4.3116E-02 + 0.5003*Channel + -9.3209E-08*Channel**2

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.19	88.00	88.10	-0.102
2	244.13	122.10	122.09	0.013
3	331.70	165.90	165.89	0.006
4	558.09	279.20	279.14	0.059
5	783.00	391.70	391.63	0.067
6	1322.81	661.60	661.60	0.004
7	1795.63	898.00	898.01	-0.007
8	2346.20	1173.20	1173.24	-0.043
9	2664.87	1332.50	1332.52	-0.024
10	3672.35	1836.00	1835.97	0.027

Approved by: R. M. K. Approval Date: 10/28/96

VMS Calibration Report V1.5 Generated 28-OCT-1996 11:46:16

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 28-OCT-1996 11:44:54
Efficiency type : Empirical Effncy Calib Time: 28-OCT-1996 10:29:35
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.5786 + 3.4348E-02*Energy**1/2

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.96	0.90	0.063
2	122.10	0.97	0.96	0.016
3	165.90	1.07	1.02	0.046
4	279.20	1.09	1.15	-0.066
5	391.70	1.25	1.26	-0.010
6	661.60	1.39	1.46	-0.074
7	898.00	1.53	1.61	-0.080
8	1173.20	1.73	1.76	-0.022
9	1332.50	1.88	1.83	0.043
10	1836.00	2.12	2.05	0.074

Approved by: B. M K Approval Date: 10/28/96

VMS Calibration Report V1.5 Generated 28-OCT-1996 11:47:09

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 28-OCT-1996 11:44:54
Efficiency type : Empirical Effncy Calib Time: 28-OCT-1996 11:46:41
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = expa2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5, x=lna1/energy

a1	a2	a3	a4	a5	a6	a7
962.0	-4.258	0.8752	0.1048	-0.1014	0.0000E+00	0.0000E+00

Average Deviation = 2.36 % Reduced Chi-Square = 0.492

Nbr	Energy keV	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.11E-02	2.29E-03	5.22E-02	-0.51	-2.27
2	122.10	5.67E-02	2.81E-03	5.52E-02	0.53	2.65
3	165.90	5.42E-02	2.37E-03	5.25E-02	0.70	3.05
4	279.20	3.94E-02	1.93E-03	4.05E-02	-0.55	-2.67
5	391.70	3.02E-02	1.38E-03	3.14E-02	-0.90	-4.14
6	661.60	2.05E-02	9.80E-04	1.98E-02	0.63	3.04
7	898.00	1.49E-02	6.46E-04	1.50E-02	-0.21	-0.90
8	1173.20	1.21E-02	5.27E-04	1.20E-02	0.28	1.22
9	1332.50	1.10E-02	5.11E-04	1.08E-02	0.36	1.67
10	1836.00	8.47E-03	4.03E-04	8.63E-03	-0.42	-1.98

Approved by: B. M. K. Approval Date: 10/28/96

VMS Calibration Report V1.5 Generated 5-NOV-1996 08:33:29

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 5-NOV-1996 08:28:42
Efficiency type : Empirical Effncy Calib Time: 5-NOV-1996 08:33:10
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = expa2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5, x=lna1/energy

a1	a2	a3	a4	a5	a6	a7
962.0	-4.258	0.8935	0.1138	-0.1084	0.0000E+00	0.0000E+00

Average Deviation = 2.07 % Reduced Chi-Square = 0.439

Nbr	Energy keV	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.14E-02	2.29E-03	5.22E-02	-0.33	-1.46
2	122.10	5.72E-02	2.84E-03	5.60E-02	0.41	2.04
3	165.90	5.42E-02	2.36E-03	5.37E-02	0.21	0.93
4	279.20	4.22E-02	2.07E-03	4.14E-02	0.38	1.85
5	391.70	3.04E-02	1.39E-03	3.20E-02	-1.17	-5.36
6	661.60	2.04E-02	9.82E-04	2.00E-02	0.45	2.16
7	898.00	1.48E-02	6.43E-04	1.51E-02	-0.36	-1.56
8	1173.20	1.22E-02	5.31E-04	1.19E-02	0.58	2.52
9	1332.50	1.08E-02	5.05E-04	1.07E-02	0.21	0.96
10	1836.00	8.42E-03	4.02E-04	8.58E-03	-0.39	-1.88

Approved by: Approval Date: 11/5/96

VMS Calibration Report V1.5 Generated 5-NOV-1996 08:32:36

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 5-NOV-1996 08:28:42
Efficiency type : Empirical Effncy Calib Time: 28-OCT-1996 11:46:41
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.5740 + 3.4219E-02*Energy**1/2

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.92	0.90	0.022
2	122.10	0.95	0.95	-0.003
3	165.90	1.06	1.01	0.042
4	279.20	1.13	1.15	-0.013
5	391.70	1.23	1.25	-0.024
6	661.60	1.42	1.45	-0.032
7	898.00	1.57	1.60	-0.031
8	1173.20	1.77	1.75	0.021
9	1332.50	1.76	1.82	-0.058
10	1836.00	2.11	2.04	0.067

Approved by: B. MK Approval Date: 11/5/96

VMS Calibration Report V1.5 Generated 5-NOV-1996 08:29:02

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 5-NOV-1996 08:28:42
Efficiency type : Empirical Effncy Calib Time: 28-OCT-1996 11:46:41
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 1.4175E-02 + 0.5001*Channel + -9.1499E-08*Channel**2

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.14	88.00	88.11	-0.107
2	244.08	122.10	122.08	0.017
3	331.68	165.90	165.89	0.011
4	558.15	279.20	279.14	0.063
5	783.17	391.70	391.65	0.052
6	1323.10	661.60	661.58	0.017
7	1796.10	898.00	898.01	-0.013
8	2346.83	1173.20	1173.24	-0.042
9	2665.60	1332.50	1332.52	-0.023
10	3673.40	1836.00	1835.97	0.027

Approved by: B. McK Approval Date: 11/5/96

6eh

VMS Calibration Report V1.5 Generated 5-NOV-1996 16:58:46

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 5-NOV-1996 16:55:53
Efficiency type : Empirical Effncy Calib Time: 5-NOV-1996 16:58:37
Detector Geometry: 500ML_GEL_MG14 Shelf :

Efficiency Calibration Report

Eff = expa2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5, x=lna1/energy

a1	a2	a3	a4	a5	a6	a7
962.0	-4.242	0.8840	9.5207E-02	-9.5876E-02	0.0000E+00	0.0000E+00

Average Deviation = 2.61 % Reduced Chi-Square = 0.664

Nbr	Energy keV	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.36E-02	2.40E-03	5.53E-02	-0.73	-3.28
2	122.10	6.09E-02	3.00E-03	5.76E-02	1.10	5.44
3	165.90	5.53E-02	2.41E-03	5.42E-02	0.45	1.96
4	279.20	3.97E-02	1.95E-03	4.14E-02	-0.88	-4.30
5	391.70	3.13E-02	1.43E-03	3.21E-02	-0.55	-2.54
6	661.60	2.06E-02	9.87E-04	2.02E-02	0.40	1.93
7	898.00	1.51E-02	6.56E-04	1.53E-02	-0.23	-1.02
8	1173.20	1.25E-02	5.43E-04	1.21E-02	0.70	3.03
9	1332.50	1.10E-02	5.09E-04	1.09E-02	0.09	0.43
10	1836.00	8.49E-03	4.05E-04	8.67E-03	-0.45	-2.15

Approved by: B. M. K. Approval Date: 11/15/96

EU-152	0.000E+00	0.000E+00	4.532E-07	5.446E-08
RA-226	8.557E-07	3.030E-07	3.389E-07	4.208E-08
TH-232	1.579E-06	6.166E-07	2.896E-07	3.171E-08
U-235	0.000E+00	0.000E+00	2.061E-07	2.044E-08
AM-241	0.000E+00	0.000E+00	4.912E-07	5.973E-08

Total: 9.849E-04

VMS Calibration Report V1.5 Generated 12-NOV-1996 14:24:10

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 12-NOV-1996 14:24:04
Efficiency type : Empirical Effncy Calib Time: 5-NOV-1996 08:33:10
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -6.1931E-03 + 0.5002*Channel + -9.2750E-08*Channel**2

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.15	88.00	88.10	-0.096
2	244.12	122.10	122.09	0.011
3	331.69	165.90	165.89	0.014
4	558.19	279.20	279.15	0.047
5	783.13	391.70	391.63	0.065
6	1323.09	661.60	661.60	0.002
7	1796.01	898.00	898.00	-0.002
8	2346.75	1173.20	1173.26	-0.057
9	2665.44	1332.50	1332.51	-0.006
10	3673.23	1836.00	1835.98	0.022

Approved by: _____ Approval Date: __ / __ / ____

VMS Calibration Report V1.5 Generated 2-DEC-1996 12:22:24

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-DEC-1996 12:20:17
Efficiency type : Empirical Effncy Calib Time: 2-DEC-1996 12:22:17
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.254	0.8874	8.6144E-02	-9.5031E-02	0.0000E+00	0.0000E+00

Average Deviation = 2.39 % Reduced Chi-Square = 0.499

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.17E-02	2.33E-03	5.29E-02	-0.52	-2.34
2	122.10	5.78E-02	2.86E-03	5.55E-02	0.81	3.99
3	165.90	5.34E-02	2.36E-03	5.27E-02	0.29	1.30
4	279.20	3.96E-02	2.04E-03	4.06E-02	-0.48	-2.48
5	391.70	3.05E-02	1.41E-03	3.16E-02	-0.73	-3.39
6	661.60	2.08E-02	9.93E-04	2.00E-02	0.81	3.88
7	898.00	1.48E-02	6.47E-04	1.51E-02	-0.48	-2.11
8	1173.20	1.21E-02	5.27E-04	1.20E-02	0.24	1.05
9	1332.50	1.10E-02	5.10E-04	1.08E-02	0.37	1.71
10	1836.00	8.38E-03	4.03E-04	8.52E-03	-0.34	-1.65

Approved by: B. M K Approval Date: 12/ 2 / 96

VMS Calibration Report V1.5 Generated 2-DEC-1996 12:17:30

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-DEC-1996 12:16:43
Efficiency type : Empirical Effncy Calib Time: 5-NOV-1996 08:33:10
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -3.4160E-02 + 0.5002*Channel +-9.4021E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.19	88.00	88.09	-0.088
2	244.18	122.10	122.09	0.011
3	331.77	165.90	165.89	0.008
4	558.29	279.20	279.17	0.032
5	783.18	391.70	391.62	0.079
6	1323.18	661.60	661.60	-0.002
7	1796.12	898.00	898.01	-0.006
8	2346.85	1173.20	1173.24	-0.041
9	2665.60	1332.50	1332.52	-0.017
10	3673.40	1836.00	1835.98	0.023

Approved by: B. MK Approval Date: 12/2/96

VMS Calibration Report V1.5 Generated 2-DEC-1996 12:15:25

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-DEC-1996 12:11:11
Efficiency type : Empirical Effncy Calib Time: 5-NOV-1996 08:33:10
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6383 + 3.1854E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.99	0.94	0.052
2	122.10	1.01	0.99	0.017
3	165.90	1.03	1.05	-0.020
4	279.20	1.16	1.17	-0.014
5	391.70	1.23	1.27	-0.042
6	661.60	1.44	1.46	-0.015
7	898.00	1.58	1.59	-0.018
8	1173.20	1.72	1.73	-0.007
9	1332.50	1.81	1.80	0.013
10	1836.00	2.03	2.00	0.026

Approved by: B. M. K. Approval Date: 12/ 2/ 96

VMS Calibration Report V1.5 Generated 2-JAN-1997 10:50:30

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-JAN-1997 10:50:23
Efficiency type : Empirical Effncy Calib Time: 2-JAN-1997 09:38:50
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -4.7476E-04 + 0.5002*Channel + -9.5456E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.12	88.00	88.10	-0.099
2	244.11	122.10	122.11	-0.005
3	331.68	165.90	165.91	-0.008
4	557.95	279.20	279.08	0.122
5	783.05	391.70	391.65	0.048
6	1322.94	661.60	661.62	-0.018
7	1795.79	898.00	898.01	-0.011
8	2346.43	1173.20	1173.24	-0.045
9	2665.10	1332.50	1332.50	-0.005
10	3672.79	1836.00	1835.98	0.021

Approved by: B. Mak Approval Date: 1/2/97

VMS Calibration Report V1.5 Generated 2-JAN-1997 10:51:53

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-JAN-1997 10:50:23
Efficiency type : Empirical Effncy Calib Time: 2-JAN-1997 09:38:50
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.5985 + 3.4380E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.95	0.92	0.033
2	122.10	1.00	0.98	0.025
3	165.90	1.08	1.04	0.034
4	279.20	1.13	1.17	-0.044
5	391.70	1.27	1.28	-0.009
6	661.60	1.42	1.48	-0.065
7	898.00	1.56	1.63	-0.068
8	1173.20	1.81	1.78	0.038
9	1332.50	1.85	1.85	-0.008
10	1836.00	2.13	2.07	0.054

Approved by: [illegible] Approval Date: 1/2/97

VMS Calibration Report V1.5 Generated 2-JAN-1997 10:53:21

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-JAN-1997 10:50:23
Efficiency type : Empirical Effncy Calib Time: 2-JAN-1997 10:52:56
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.176	0.9694	-0.1722	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 7.35 % Reduced Chi-Square = 4.50

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.21E-02	2.34E-03	5.83E-02	-2.63	-11.84
2	122.10	5.80E-02	2.87E-03	5.46E-02	1.20	5.94
3	165.90	5.44E-02	2.42E-03	4.96E-02	1.98	8.80
4	279.20	4.43E-02	2.47E-03	3.92E-02	2.07	11.56
5	391.70	3.07E-02	1.44E-03	3.19E-02	-0.86	-4.04
6	661.60	2.12E-02	1.01E-03	2.16E-02	-0.38	-1.81
7	898.00	1.47E-02	6.55E-04	1.64E-02	-2.53	-11.25
8	1173.20	1.22E-02	5.29E-04	1.26E-02	-0.80	-3.48
9	1332.50	1.07E-02	4.98E-04	1.10E-02	-0.60	-2.78
10	1836.00	8.68E-03	4.21E-04	7.64E-03	2.48	12.03

Approved by: B. M K Approval Date: 1/2/97

V...S Calibration Report V1.5 Generated 25-FEB-1997 17:29:32

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 25-FEB-1997 17:29:22
Efficiency type : Empirical Effncy Calib Time: 6-FEB-1997 09:49:42
Detector Geometry: MG11 100gm soil Shelf :

Energy Calibration Report

Energy = 1.3292E-02 + 0.5002*Channel + -8.7244E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.07	88.00	88.09	-0.086
2	244.06	122.10	122.09	0.007
3	331.59	165.90	165.88	0.022
4	558.09	279.20	279.16	0.037
5	783.02	391.70	391.66	0.045
6	1322.84	661.60	661.59	0.010
7	1795.67	898.00	897.99	0.011
8	2346.33	1173.20	1173.25	-0.046
	2665.02	1332.50	1332.53	-0.026
	3672.56	1836.00	1835.97	0.025

Approved by: [signature] Approval Date: 2 12 5 97

Calibration Report V1.5 Generated 25-FEB-1997 17:32:16

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 25-FEB-1997 17:29:22
Efficiency type : Empirical Effncy Calib Time: 25-FEB-1997 17:31:54
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.181	0.9432	-0.1600	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 6.32 % Reduced Chi-Square = 3.24

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.22E-02	2.35E-03	5.84E-02	-2.62	-11.78
2	122.10	5.82E-02	2.91E-03	5.41E-02	1.40	7.03
3	165.90	5.47E-02	2.45E-03	4.89E-02	2.35	10.54
4	279.20	4.15E-02	3.92E-03	3.84E-02	0.80	7.55
	391.70	3.07E-02	1.48E-03	3.13E-02	-0.44	-2.13
	661.60	2.06E-02	9.86E-04	2.13E-02	-0.68	-3.25
	898.00	1.51E-02	6.85E-04	1.63E-02	-1.68	-7.60
8	1173.20	1.23E-02	5.36E-04	1.26E-02	-0.52	-2.25
9	1332.50	1.09E-02	5.05E-04	1.10E-02	-0.37	-1.73
10	1836.00	8.57E-03	4.23E-04	7.77E-03	1.89	9.33

Approved by: B. McK Approval Date: 2 1 25 97

alibration Report V1.5 Generated 25-FEB-1997 17:31:15

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 25-FEB-1997 17:29:22
Efficiency type : Empirical Effncy Calib Time: 6-FEB-1997 09:49:42
Detector Geometry: MG11 100gm soil Shelf :

FWHM Calibration Report

FWHM = 0.6264 + 3.2030E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.90	0.93	-0.024
2	122.10	0.94	0.98	-0.036
3	165.90	1.08	1.04	0.037
4	279.20	1.28	1.16	0.122
5	391.70	1.23	1.26	-0.034
6	661.60	1.38	1.45	-0.071
7	898.00	1.56	1.59	-0.030
8	1173.20	1.75	1.72	0.027
9	1332.50	1.74	1.80	-0.054
	1836.00	2.05	2.00	0.054

Approved by: B. McK Approval Date: 2 12 5 97

VMS Calibration Report V1.5 Generated 8-APR-1997 10:20:30

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 8-APR-1997 10:20:15
Efficiency type : Empirical Effncy Calib Time: 7-APR-1997 13:48:12
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 4.7531E-02 + 0.5003*Channel + -9.7853E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.02	88.00	88.10	-0.101
2	244.02	122.10	122.11	-0.012
3	331.54	165.90	165.89	0.007
4	557.81	279.20	279.07	0.133
5	782.98	391.70	391.68	0.020
6	1322.79	661.60	661.61	-0.011
7	1795.63	898.00	898.01	-0.007
8	2346.28	1173.20	1173.25	-0.051
9	2664.93	1332.50	1332.50	0.000
10	3672.62	1836.00	1835.98	0.020

Approved by: B-MK Approval Date: 4/8/97

VMS Calibration Report V1.5 Generated 8-APR-1997 10:31:47

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 8-APR-1997 10:20:15
Efficiency type : Empirical Effncy Calib Time: 7-APR-1997 13:48:12
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6258 + 3.2693E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.89	0.93	-0.043
2	122.10	0.94	0.99	-0.051
3	165.90	1.10	1.05	0.052
4	279.20	1.30	1.17	0.131
5	391.70	1.25	1.27	-0.025
6	661.60	1.41	1.47	-0.053
7	898.00	1.59	1.61	-0.012
8	1173.20	1.70	1.75	-0.041
9	1332.50	1.80	1.82	-0.019
10	1836.00	2.08	2.03	0.050

Approved by: B - [illegible] Approval Date: 4/8/97

VMS Calibration Report V1.5 Generated 7-APR-1997 13:48:42

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-APR-1997 13:46:11
Efficiency type : Empirical Effncy Calib Time: 7-APR-1997 13:48:12
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.178	0.9617	-0.1716	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 6.63 % Reduced Chi-Square = 2.95

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.18E-02	2.33E-03	5.73E-02	-2.37	-10.67
2	122.10	5.71E-02	2.87E-03	5.37E-02	1.17	5.90
3	165.90	5.47E-02	2.51E-03	4.89E-02	2.32	10.61
4	279.20	4.49E-02	5.74E-03	3.87E-02	1.07	13.69
5	391.70	3.08E-02	1.52E-03	3.17E-02	-0.58	-2.86
6	661.60	2.09E-02	9.98E-04	2.14E-02	-0.50	-2.40
7	898.00	1.53E-02	7.21E-04	1.64E-02	-1.42	-6.67
8	1173.20	1.21E-02	5.27E-04	1.26E-02	-0.92	-4.00
9	1332.50	1.10E-02	5.09E-04	1.10E-02	-0.09	-0.43
10	1836.00	8.42E-03	4.26E-04	7.66E-03	1.79	9.06

Approved by: Approval Date: 9/8/97

n Report V1.5 Generated 1-MAY-1997 06:13:05

ation : MCA0:[NDSCOUNT]GE3$1
by : SCRCAL V1.1
Name : GE3 Energy Calib Time: 1-MAY-1997 06:12:54
/ type : Empirical Effncy Calib Time: 7-APR-1997 13:48:12
Geometry: 800g sand mg-13 Shelf :

alibration Report

gy = -8.1397E-03 + 0.5000*Channel + -8.6035E-08*(Channel**2)

ntroid Channel	True Energy	Computed Energy	Difference
76.19	88.00	88.08	-0.083
44.20	122.10	122.08	0.016
31.80	165.90	165.88	0.021
58.42	279.20	279.17	0.032
83.47	391.70	391.66	0.037
323.51	661.60	661.58	0.025
796.68	898.00	898.03	-0.028
347.51	1173.20	1173.24	-0.039
366.30	1332.50	1332.49	0.005
41	1836.00	1835.99	0.014

d by: [illegible] Approval Date: 5/1/97

VMS Calibration Report V1.5 Generated 7-MAY-1997 10:33:42

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-MAY-1997 10:33:33
Efficiency type : Empirical Effncy Calib Time: 5-MAY-1997 12:47:52
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -0.1847 + 0.5019*Channel + -1.0617E-07*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	175.83	88.00	88.07	-0.068
2	243.61	122.10	122.08	0.016
3	330.88	165.90	165.88	0.017
4	556.70	279.20	279.21	-0.008
5	780.75	391.70	391.63	0.068
6	1318.87	661.60	661.61	-0.011
7	1790.06	898.00	897.96	0.042
8	2339.01	1173.20	1173.25	-0.050
9	2656.69	1332.50	1332.53	-0.031
10	3661.05	1836.00	1835.97	0.025

NG

Approved by: [illegible] Approval Date: 5/7/97

VMS Calibration Report V1.5 Generated 7-MAY-1997 14:01:22

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-MAY-1997 14:01:13
Efficiency type : Empirical Effncy Calib Time: 7-MAY-1997 10:36:00
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 2.8174E-02 + 0.4986*Channel + -8.7067E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.68	88.00	88.11	-0.113
2	244.90	122.10	122.12	-0.022
3	332.75	165.90	165.91	-0.015
4	559.64	279.20	279.01	0.187
5	785.66	391.70	391.67	0.026
6	1327.29	661.60	661.61	-0.008
7	1801.75	898.00	898.03	-0.026
8	2354.19	1173.20	1173.25	-0.049
9	2673.91	1332.50	1332.51	-0.007
10	3684.87	1836.00	1835.97	0.026

Approved by: D. Olsen Approval Date: 5/7/97

VMS Calibration Report V1.5 Generated 7-MAY-1997 10:35:12

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-MAY-1997 10:33:33
Efficiency type : Empirical Effncy Calib Time: 5-MAY-1997 12:47:52
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.5634 + 3.6154E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.97	0.90	0.066
2	122.10	1.09	0.96	0.122
3	165.90	1.02	1.03	-0.008
4	279.20	1.06	1.17	-0.106
5	391.70	1.22	1.28	-0.057
6	661.60	1.43	1.49	-0.061
7	898.00	1.62	1.65	-0.024
8	1173.20	1.73	1.80	-0.076
9	1332.50	1.90	1.88	0.013
10	1836.00	2.23	2.11	0.121

NG

Approved by: D.W. Approval Date: 5/7/97

VMS Calibration Report V1.5 Generated 7-MAY-1997 10:36:15

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-MAY-1997 10:33:33
Efficiency type : Empirical Effncy Calib Time: 7-MAY-1997 10:36:00
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.194	0.9507	-0.1581	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 6.76 % Reduced Chi-Square = 3.14

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.31E-02	2.39E-03	5.93E-02	-2.63	-11.86
2	122.10	6.01E-02	3.02E-03	5.48E-02	1.76	8.85
3	165.90	5.47E-02	2.55E-03	4.92E-02	2.14	9.99
4	279.20	4.33E-02	8.00E-03	3.84E-02	0.61	11.31
5	391.70	3.05E-02	1.55E-03	3.12E-02	-0.48	-2.45
6	661.60	2.07E-02	9.86E-04	2.11E-02	-0.42	-2.02
7	898.00	1.48E-02	7.43E-04	1.61E-02	-1.82	-9.15
8	1173.20	1.20E-02	5.26E-04	1.24E-02	-0.71	-3.08
9	1332.50	1.09E-02	5.08E-04	1.09E-02	0.08	0.39
10	1836.00	8.35E-03	4.32E-04	7.64E-03	1.65	8.53

Approved by: [illegible] Approval Date: 5/7/97

VMS Calibration Report V1.5 Generated 7-MAY-1997 14:56:57

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-MAY-1997 14:54:20
Efficiency type : Empirical Effncy Calib Time: 7-MAY-1997 14:56:01
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.182	0.9752	-0.1716	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 6.47 % Reduced Chi-Square = 3.20

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.29E-02	2.38E-03	5.89E-02	-2.55	-11.48
2	122.10	5.97E-02	3.01E-03	5.50E-02	1.57	7.88
3	165.90	5.53E-02	2.57E-03	4.99E-02	2.10	9.77
4	279.20	4.31E-02	6.86E-03	3.92E-02	0.56	8.87
5	391.70	3.20E-02	1.66E-03	3.19E-02	0.02	0.09
6	661.60	2.09E-02	9.98E-04	2.15E-02	-0.55	-2.60
7	898.00	1.50E-02	7.32E-04	1.63E-02	-1.74	-8.46
8	1173.20	1.20E-02	5.21E-04	1.25E-02	-1.04	-4.53
9	1332.50	1.08E-02	5.04E-04	1.09E-02	-0.15	-0.69
10	1836.00	8.44E-03	4.33E-04	7.57E-03	2.02	10.34

Approved by: D. Nassau Approval Date: 5/7/97

VMS Calibration Report V1.5 Generated 7-MAY-1997 14:55:34

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-MAY-1997 14:54:20
Efficiency type : Empirical Effncy Calib Time: 7-MAY-1997 10:36:00
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.5466 + 3.7055E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.96	0.89	0.065
2	122.10	0.94	0.96	-0.015
3	165.90	1.07	1.02	0.049
4	279.20	1.19	1.17	0.023
5	391.70	1.24	1.28	-0.039
6	661.60	1.41	1.50	-0.087
7	898.00	1.59	1.66	-0.069
8	1173.20	1.79	1.82	-0.024
9	1332.50	1.83	1.90	-0.073
10	1836.00	2.30	2.13	0.161

Approved by: D. O'Dam Approval Date: 5/7/97

VMS Calibration Report V1.5 Generated 7-MAY-1997 14:54:28

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 7-MAY-1997 14:54:20
Efficiency type : Empirical Effncy Calib Time: 7-MAY-1997 10:36:00
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 2.4036E-02 + 0.5002*Channel + -9.0631E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.08	88.00	88.09	-0.093
2	244.06	122.10	122.09	0.007
3	331.60	165.90	165.88	0.021
4	558.15	279.20	279.18	0.022
5	783.02	391.70	391.63	0.074
6	1322.93	661.60	661.58	0.018
7	1795.84	898.00	897.99	0.006
8	2346.56	1173.20	1173.25	-0.051
9	2665.30	1332.50	1332.53	-0.034
10	3672.94	1836.00	1835.97	0.032

Approved by: [illegible] Approval Date: 5/7/97

VMS Calibration Report V1.5 Generated 8-MAY-1997 09:28:04

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 8-MAY-1997 09:27:58
Efficiency type : Empirical Effncy Calib Time: 7-MAY-1997 14:56:01
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -0.1242 + 0.5005*Channel + -1.1454E-07*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.36	88.00	88.13	-0.134
2	244.28	122.10	122.12	-0.023
3	331.83	165.90	165.94	-0.036
4	557.66	279.20	278.93	0.268
5	783.02	391.70	391.68	0.019
6	1322.72	661.60	661.66	-0.059
7	1795.31	898.00	898.00	-0.003
8	2345.82	1173.20	1173.26	-0.056
9	2664.37	1332.50	1332.50	0.000
10	3671.84	1836.00	1835.98	0.025

Approved by: D.O[illegible] Approval Date: 5/8/97

VMS Calibration Report V1.5 Generated 8-MAY-1997 09:29:30

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 8-MAY-1997 09:27:58
Efficiency type : Empirical Effncy Calib Time: 7-MAY-1997 14:56:01
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6066 + 3.4864E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	1.06	0.93	0.128
2	122.10	1.05	0.99	0.058
3	165.90	1.01	1.06	-0.041
4	279.20	1.08	1.19	-0.108
5	391.70	1.28	1.30	-0.018
6	661.60	1.47	1.50	-0.037
7	898.00	1.60	1.65	-0.055
8	1173.20	1.77	1.80	-0.034
9	1332.50	1.85	1.88	-0.025
10	1836.00	2.22	2.10	0.124

Approved by: [illegible] Approval Date: 5 / 8 / 97

VMS Calibration Report V1.5 Generated 8-MAY-1997 09:31:18

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 8-MAY-1997 09:27:58
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.182	0.9540	-0.1637	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 6.29 % Reduced Chi-Square = 2.83

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.29E-02	2.39E-03	5.86E-02	-2.40	-10.81
2	122.10	5.86E-02	2.95E-03	5.45E-02	1.39	7.01
3	165.90	5.52E-02	2.60E-03	4.93E-02	2.27	10.70
4	279.20	4.31E-02	8.10E-03	3.87E-02	0.54	10.15
5	391.70	3.10E-02	1.58E-03	3.15E-02	-0.33	-1.68
6	661.60	2.07E-02	9.89E-04	2.13E-02	-0.59	-2.81
7	898.00	1.49E-02	7.22E-04	1.63E-02	-1.99	-9.69
8	1173.20	1.24E-02	5.38E-04	1.26E-02	-0.33	-1.44
9	1332.50	1.11E-02	5.17E-04	1.10E-02	0.23	1.05
10	1836.00	8.33E-03	4.39E-04	7.70E-03	1.44	7.58

Approved by: [illegible] Approval Date: 5/8/97

VMS Calibration Report V1.5 Generated 12-MAY-1997 08:26:28

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 12-MAY-1997 08:26:21
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -0.3134 + 0.5005*Channel + -9.8270E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.62	88.00	88.08	-0.078
2	244.56	122.10	122.08	0.025
3	332.06	165.90	165.87	0.035
4	558.70	279.20	279.27	-0.074
5	783.13	391.70	391.56	0.136
6	1322.92	661.60	661.61	-0.009
7	1795.56	898.00	898.01	-0.008
8	2345.94	1173.20	1173.23	-0.034
9	2664.50	1332.50	1332.51	-0.012
10	3671.73	1836.00	1835.98	0.018

Approved by: [illegible] Approval Date: 5/12/97

VMS Calibration Report V1.5 Generated 13-MAY-1997 07:16:28

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 13-MAY-1997 07:16:15
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 0.5465 + 0.5004*Channel + -9.4096E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	174.98	88.00	88.11	-0.109
2	242.83	122.10	122.06	0.038
3	330.42	165.90	165.89	0.008
4	556.84	279.20	279.18	0.018
5	781.58	391.70	391.62	0.082
6	1321.28	661.60	661.60	0.003
7	1793.94	898.00	897.99	0.008
8	2344.41	1173.20	1173.25	-0.054
9	2662.97	1332.50	1332.52	-0.022
10	3670.19	1836.00	1835.97	0.027

Approved by: Approval Date: 5/13/97

VMS Calibration Report V1.5 Generated 13-MAY-1997 09:37:09

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 13-MAY-1997 09:37:00
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 8.2177E-02 + 0.5013*Channel + -9.2801E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	175.67	88.00	88.15	-0.146
2	243.51	122.10	122.15	-0.055
3	330.89	165.90	165.96	-0.056
4	556.19	279.20	278.88	0.319
5	781.20	391.70	391.66	0.043
6	1319.97	661.60	661.65	-0.048
7	1791.70	898.00	898.00	0.004
8	2341.20	1173.20	1173.26	-0.063
9	2659.23	1332.50	1332.55	-0.046
10	3664.57	1836.00	1835.95	0.047

Approved by: [illegible] Approval Date: 5/13/97

VMS Calibration Report V1.5 Generated 13-MAY-1997 12:06:43

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 13-MAY-1997 12:06:34
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 2.7025E-02 + 0.5017*Channel + -9.4717E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	175.52	88.00	88.08	-0.082
2	243.32	122.10	122.09	0.009
3	330.60	165.90	165.88	0.024
4	556.46	279.20	279.17	0.035
5	780.75	391.70	391.66	0.040
6	1319.03	661.60	661.60	-0.003
7	1790.47	898.00	897.98	0.020
8	2339.59	1173.20	1173.25	-0.047
9	2657.35	1332.50	1332.52	-0.016
10	3662.09	1836.00	1835.98	0.021

Approved by: D.O'Sullivan Approval Date: 5/13/97

VMS Calibration Report V1.5 Generated 13-MAY-1997 12:46:28

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 13-MAY-1997 12:46:18
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 3.4143E-02 + 0.5014*Channel + -9.3422E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	175.71	88.00	88.13	-0.131
2	243.53	122.10	122.13	-0.034
3	330.86	165.90	165.92	-0.016
4	556.42	279.20	278.99	0.209
5	781.16	391.70	391.65	0.054
6	1319.83	661.60	661.62	-0.023
7	1791.58	898.00	898.02	-0.016
8	2340.94	1173.20	1173.25	-0.049
9	2658.92	1332.50	1332.53	-0.031
10	3664.18	1836.00	1835.96	0.036

Approved by: [illegible] Approval Date: 5/13/97

VMS Calibration Report V1.5 Generated 13-MAY-1997 13:19:47

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 13-MAY-1997 13:19:38
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 0.1773 + 0.5004*Channel + -7.9521E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	175.95	88.00	88.22	-0.219
2	243.85	122.10	122.20	-0.096
3	331.17	165.90	165.88	0.016
4	556.60	279.20	278.67	0.528
5	782.77	391.70	391.83	-0.126
6	1322.16	661.60	661.64	-0.044
7	1794.80	898.00	898.03	-0.031
8	2345.17	1173.20	1173.26	-0.057
9	2663.67	1332.50	1332.51	-0.005
10	3670.81	1836.00	1835.97	0.033

Approved by: [illegible] Approval Date: 5/13/97

VMS Calibration Report V1.5 Generated 14-MAY-1997 09:29:52

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 14-MAY-1997 09:29:45
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = 9.9201E-02 + 0.5005*Channel + -9.9812E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	175.86	88.00	88.12	-0.120
2	243.75	122.10	122.10	0.005
3	331.34	165.90	165.93	-0.030
4	557.34	279.20	279.03	0.168
5	782.42	391.70	391.66	0.043
6	1321.98	661.60	661.61	-0.010
7	1794.62	898.00	898.03	-0.028
8	2344.95	1173.20	1173.25	-0.055
9	2663.42	1332.50	1332.50	0.004
10	3670.60	1836.00	1835.98	0.023

Approved by: [illegible] Approval Date: 5/14/97

VMS Calibration Report V1.5 Generated 15-MAY-1997 15:33:43

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 15-MAY-1997 15:33:33
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -9.5505E-02 + 0.5007*Channel + -8.7118E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	175.97	88.00	88.01	-0.009
2	243.86	122.10	122.00	0.098
3	331.32	165.90	165.79	0.115
4	558.60	279.20	279.57	-0.367
5	782.40	391.70	391.60	0.100
6	1321.72	661.60	661.54	0.058
7	1794.16	898.00	897.96	0.039
8	2344.31	1173.20	1173.22	-0.023
9	2662.71	1332.50	1332.51	-0.010
10	3669.39	1836.00	1836.00	0.001

Approved by: _____ Approval Date: __ / __ / ____

VMS Calibration Report V1.5 Generated 27-MAY-1997 10:34:09

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 27-MAY-1997 10:34:03
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -0.2822 + 0.5005*Channel + -9.4153E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.49	88.00	88.05	-0.053
2	244.45	122.10	122.07	0.029
3	331.96	165.90	165.87	0.032
4	558.55	279.20	279.26	-0.062
5	783.10	391.70	391.63	0.070
6	1322.64	661.60	661.59	0.015
7	1795.29	898.00	898.02	-0.024
8	2345.53	1173.20	1173.23	-0.028
9	2664.00	1332.50	1332.48	0.016
10	3671.14	1836.00	1836.00	0.005

Approved by: B. MK Approval Date: 5/27/97

VMS Calibration Report V1.5 Generated 27-MAY-1997 10:35:15

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 27-MAY-1997 10:34:03
Efficiency type : Empirical Effncy Calib Time: 8-MAY-1997 09:31:11
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6708 + 3.1585E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	1.06	0.97	0.095
2	122.10	1.07	1.02	0.055
3	165.90	1.03	1.08	-0.052
4	279.20	1.27	1.20	0.070
5	391.70	1.24	1.30	-0.060
6	661.60	1.43	1.48	-0.056
7	898.00	1.43	1.62	-0.184
8	1173.20	1.73	1.75	-0.021
9	1332.50	1.77	1.82	-0.054
10	1836.00	2.23	2.02	0.205

Approved by: B. MK Approval Date: 5/27/97

VMS Calibration Report V1.5 Generated 27-MAY-1997 10:36:17

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 27-MAY-1997 10:34:03
Efficiency type : Empirical Effncy Calib Time: 27-MAY-1997 10:35:40
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.187	0.9596	-0.1703	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 7.58 % Reduced Chi-Square = 2.87

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.18E-02	2.34E-03	5.69E-02	-2.21	-9.96
2	122.10	5.75E-02	2.91E-03	5.33E-02	1.43	7.25
3	165.90	5.26E-02	2.46E-03	4.85E-02	1.68	7.85
4	279.20	5.23E-02	9.46E-03	3.84E-02	1.47	26.56
5	391.70	3.13E-02	1.65E-03	3.14E-02	-0.05	-0.28
6	661.60	2.08E-02	9.87E-04	2.13E-02	-0.49	-2.34
7	898.00	1.47E-02	7.30E-04	1.62E-02	-2.03	-10.07
8	1173.20	1.22E-02	5.31E-04	1.25E-02	-0.55	-2.41
9	1332.50	1.09E-02	5.07E-04	1.09E-02	-0.04	-0.19
10	1836.00	8.36E-03	4.38E-04	7.61E-03	1.70	8.93

Approved by: R. M. Approval Date: 5/22/97

VMS Calibration Report V1.5 Generated 2-JUN-1997 08:20:32

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-JUN-1997 08:20:26
Efficiency type : Empirical Effncy Calib Time: 27-MAY-1997 10:35:40
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -8.3269E-02 + 0.5003*Channel + -9.5411E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.37	88.00	88.14	-0.144
2	244.35	122.10	122.15	-0.046
3	331.99	165.90	165.98	-0.083
4	557.58	279.20	278.82	0.383
5	783.33	391.70	391.72	-0.020
6	1323.09	661.60	661.63	-0.028
7	1795.89	898.00	898.00	-0.002
8	2346.59	1173.20	1173.27	-0.074
9	2665.24	1332.50	1332.53	-0.028
10	3672.82	1836.00	1835.96	0.043

Approved by: Approval Date: 6 / 2 / 97

VMS Calibration Report V1.5 Generated 2-JUN-1997 08:21:36

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 2-JUN-1997 08:20:26
Efficiency type : Empirical Effncy Calib Time: 27-MAY-1997 10:35:40
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.7050 + 3.1303E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	1.06	1.00	0.062
2	122.10	1.06	1.05	0.014
3	165.90	0.99	1.11	-0.117
4	279.20	1.41	1.23	0.183
5	391.70	1.22	1.32	-0.101
6	661.60	1.41	1.51	-0.098
7	898.00	1.71	1.64	0.063
8	1173.20	1.77	1.78	-0.010
9	1332.50	1.80	1.85	-0.052
10	1836.00	2.11	2.05	0.067

Approved by: Approval Date: 6 / 2 / 97

VMS Calibration Report V1.5 Generated 3-JUN-1997 14:34:20

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 3-JUN-1997 14:34:05
Efficiency type : Empirical Effncy Calib Time: 27-MAY-1997 10:35:40
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -0.1244 + 0.5002*Channel + -9.1770E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.37	88.00	88.10	-0.100
2	244.33	122.10	122.10	0.004
3	331.89	165.90	165.89	0.010
4	558.31	279.20	279.14	0.061
5	783.22	391.70	391.62	0.079
6	1323.11	661.60	661.59	0.006
7	1796.05	898.00	898.05	-0.047
8	2346.57	1173.20	1173.23	-0.031
9	2665.24	1332.50	1332.50	-0.001
10	3672.88	1836.00	1835.98	0.019

Approved by: [signature] Approval Date: 06/03/97

VMS Calibration Report V1.5 Generated 3-JUN-1997 14:37:00

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 3-JUN-1997 14:34:05
Efficiency type : Empirical Effncy Calib Time: 27-MAY-1997 10:35:40
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6165 + 3.4636E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	1.04	0.94	0.096
2	122.10	1.03	1.00	0.031
3	165.90	0.97	1.06	-0.095
4	279.20	1.36	1.20	0.167
5	391.70	1.22	1.30	-0.083
6	661.60	1.37	1.51	-0.140
7	898.00	1.55	1.65	-0.101
8	1173.20	1.83	1.80	0.032
9	1332.50	1.81	1.88	-0.073
10	1836.00	2.26	2.10	0.161

Approved by: J Elliott Approval Date: 06/03/97

VMS Calibration Report V1.5 Generated 3-JUN-1997 14:39:05

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 3-JUN-1997 14:34:05
Efficiency type : Empirical Effncy Calib Time: 3-JUN-1997 14:38:58
Detector Geometry: 800g sand mg-13 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.179	0.9306	-0.1545	0.0000E+00	0.0000E+00	0.0000E+00

Average Deviation = 7.67 % Reduced Chi-Square = 3.97

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.21E-02	2.35E-03	5.86E-02	-2.75	-12.38
2	122.10	5.88E-02	2.97E-03	5.41E-02	1.58	7.97
3	165.90	5.52E-02	2.62E-03	4.88E-02	2.45	11.66
4	279.20	4.46E-02	9.69E-03	3.82E-02	0.65	14.21
5	391.70	3.10E-02	1.68E-03	3.12E-02	-0.09	-0.47
6	661.60	2.08E-02	9.92E-04	2.12E-02	-0.41	-1.95
7	898.00	1.47E-02	7.35E-04	1.63E-02	-2.25	-11.25
8	1173.20	1.22E-02	5.33E-04	1.27E-02	-0.84	-3.68
9	1332.50	1.10E-02	5.10E-04	1.11E-02	-0.32	-1.50
10	1836.00	8.90E-03	4.66E-04	7.87E-03	2.22	11.61

Approved by: J E Olmstead Approval Date: 06/03/97

VMS Calibration Report V1.5 Generated 6-AUG-1997 10:12:01

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 6-AUG-1997 10:08:29
Efficiency type : Empirical Effncy Calib Time: 3-JUN-1997 14:38:58
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6978 + 2.9142E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	1.04	0.97	0.071
2	122.10	1.01	1.02	-0.006
3	165.90	1.01	1.07	-0.064
4	391.70	1.20	1.27	-0.075
5	661.60	1.43	1.45	-0.022
6	898.00	1.62	1.57	0.047
7	1173.20	1.72	1.70	0.028
8	1332.50	1.92	1.76	0.161
9	1836.00	1.81	1.95	-0.137

Approved by: Katherine D Jones Approval Date: 8/6/97

VMS Calibration Report V1.5 Generated 6-AUG-1997 10:08:39

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 6-AUG-1997 10:08:29
Efficiency type : Empirical Effncy Calib Time: 3-JUN-1997 14:38:58
Detector Geometry: 800g sand mg-13 Shelf :

Energy Calibration Report

Energy = -0.2042 + 0.5006*Channel + -6.5623E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.41	88.00	88.10	-0.102
2	244.29	122.10	122.08	0.019
3	331.82	165.90	165.90	0.005
4	782.70	391.70	391.57	0.132
5	1322.20	661.60	661.56	0.036
6	1794.86	898.00	898.08	-0.077
7	2344.83	1173.20	1173.23	-0.033
8	2663.20	1332.50	1332.50	-0.002
9	3669.79	1836.00	1835.98	0.023

Approved by: Katherine D[illegible] Approval Date: 8 / 6 / 97

VMS Calibration Report V1.5 Generated 6-AUG-1997 10:12:01

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 6-AUG-1997 10:08:29
Efficiency type : Empirical Effncy Calib Time: 3-JUN-1997 14:38:58
Detector Geometry: 800g sand mg-13 Shelf :

FWHM Calibration Report

FWHM = 0.6978 + 2.9142E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	1.04	0.97	0.071
2	122.10	1.01	1.02	-0.006
3	165.90	1.01	1.07	-0.064
4	391.70	1.20	1.27	-0.075
5	661.60	1.43	1.45	-0.022
6	898.00	1.62	1.57	0.047
7	1173.20	1.72	1.70	0.028
8	1332.50	1.92	1.76	0.161
9	1836.00	1.81	1.95	-0.137

Approved by: Katherine D Jones Approval Date: 5/6/97

VMS Calibration Report V1.5 Generated 11-AUG-1997 09:43:29

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 11-AUG-1997 09:39:02
Efficiency type : Empirical Effncy Calib Time: 11-AUG-1997 09:43:20
Detector Geometry: 800G_sand_mg20 Shelf :

Efficiency Calibration Report

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5), x=ln(a1/energy)

a1	a2	a3	a4	a5	a6	a7
962.0	-4.280	0.8696	0.1114	-0.1000	0.0000E+00	0.0000E+00

Average Deviation = 2.53 % Reduced Chi-Square = 0.622

Nbr	Energy (keV)	Measured Efficiency	Efficiency Error	Computed Efficiency	Diff/ /Error	% Diff
1	88.00	5.17E-02	2.51E-03	5.33E-02	-0.65	-3.14
2	122.10	5.76E-02	2.53E-03	5.56E-02	0.82	3.59
3	165.90	5.35E-02	2.57E-03	5.23E-02	0.47	2.28
4	279.20	3.81E-02	1.79E-03	3.98E-02	-0.94	-4.43
5	391.70	3.02E-02	1.36E-03	3.08E-02	-0.43	-1.92
6	661.60	2.03E-02	1.00E-03	1.94E-02	0.93	4.60
7	898.00	1.45E-02	5.91E-04	1.47E-02	-0.42	-1.72
8	1173.20	1.17E-02	5.35E-04	1.17E-02	0.05	0.24
9	1332.50	1.08E-02	5.15E-04	1.06E-02	0.44	2.11
10	1836.00	8.38E-03	3.78E-04	8.49E-03	-0.29	-1.32

Approved by: _____ Approval Date: __ / __ / ____

VMS Calibration Report V1.5 Generated 11-AUG-1997 09:41:04

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 11-AUG-1997 09:39:02
Efficiency type : Empirical Effncy Calib Time: 21-JUL-1997 16:41:30
Detector Geometry: ~~500ML_GEL_MGT4~~ mg 20 Shelf :

FWHM Calibration Report

FWHM = 0.6137 + 3.3402E-02*(Energy**1/2)

Nbr	Energy	True FWHM	Computed FWHM	Difference
1	88.00	0.96	0.93	0.029
2	122.10	1.04	0.98	0.058
3	165.90	1.06	1.04	0.014
4	279.20	1.15	1.17	-0.025
5	391.70	1.25	1.27	-0.028
6	661.60	1.40	1.47	-0.074
7	898.00	1.56	1.61	-0.055
8	1173.20	1.73	1.76	-0.024
9	1332.50	1.84	1.83	0.010
10	1836.00	2.13	2.04	0.084

Approved by: _____ Approval Date: __ / __ / ___

VMS Calibration Report V1.5 Generated 11-AUG-1997 09:39:10

Configuration : MCA0:[NDSCOUNT]GE3$1
Analyses by : SCRCAL V1.1
Detector Name : GE3 Energy Calib Time: 11-AUG-1997 09:39:02
Efficiency type : Empirical Effncy Calib Time: 21-JUL-1997 16:41:30
Detector Geometry: ~~500ML_GEL_MG14~~ Shelf :
mg 20

Energy Calibration Report

Energy = -0.2083 + 0.5007*Channel + -9.8514E-08*(Channel**2)

Nbr	Centroid Channel	True Energy	Computed Energy	Difference
1	176.36	88.00	88.09	-0.088
2	244.26	122.10	122.08	0.023
3	331.77	165.90	165.89	0.011
4	558.09	279.20	279.18	0.023
5	782.76	391.70	391.64	0.065
6	1322.18	661.60	661.59	0.007
7	1794.68	898.00	898.01	-0.012
8	2344.87	1173.20	1173.25	-0.049
9	2663.25	1332.50	1332.50	0.003
10	3670.14	1836.00	1835.98	0.017

Approved by: _____ Approval Date: __ / __ / ____