

\*\*\*\*\*  
\*\*\*\*\* P E A K L O C A T E R E P O R T \*\*\*\*\*  
\*\*\*\*\*

Detector Name: MIT1

Sample Title: Sample title.

Peak Locate Performed on: 2/15/2019 11:27:57 AM

Peak Locate From Channel: 1

Peak Locate To Channel: 8192

Peak Search Sensitivity: 3.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	19.36	0.0566	4.57	103.04
2	39.74	0.0677	9.66	61.52
3	51.19	0.0564	12.53	94.29
4	145.64	0.2754	36.15	4.27
5	174.54	0.4158	43.38	3.11
6	184.74	0.0608	45.93	79.47
7	214.73	0.0354	53.43	226.98
8	254.01	0.1468	63.25	13.63
9	265.58	0.2469	66.14	5.14
10	300.33	0.2272	74.84	6.63
11	309.52	0.2865	77.13	3.92
12	371.65	0.1129	92.67	20.76
13	388.00	0.1476	96.76	13.75
14	485.51	0.0730	121.15	50.74
15	544.97	0.0485	136.02	116.94
16	575.78	0.2833	143.73	3.81
17	617.18	0.3187	154.08	3.05
18	743.66	0.1393	185.71	13.61
19	795.08	0.2244	198.57	5.48
20	955.13	0.1405	238.60	14.44
21	1059.38	0.0547	264.68	83.49
22	1118.82	0.0748	279.54	46.27
23	1181.62	0.2295	295.25	4.81
24	1215.90	0.2272	303.82	4.79
25	1408.21	0.1616	351.92	9.52
26	1603.12	0.0959	400.66	28.29
27	2044.38	0.0381	511.01	105.13
28	2333.41	0.1255	583.28	14.85
29	2383.98	0.0312	595.92	223.78
30	2436.32	0.0996	609.00	19.99
31	2520.32	0.1359	630.01	12.11
32	2539.47	0.0452	634.79	105.84
33	2910.85	0.2289	727.63	4.59
34	3180.74	0.2354	795.08	3.38
35	3337.21	0.0668	834.18	46.47
36	3645.89	0.1118	911.31	16.82
37	3860.23	0.2320	964.85	4.19
38	3876.89	0.1379	969.01	10.43
39	4004.45	0.2474	1000.87	4.00
40	4311.20	0.1568	1077.47	7.59
41	4427.78	0.1466	1106.57	7.52

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
42	4463.87	0.0550	1115.58	62.97
43	4482.91	0.1393	1120.34	10.32
44	4694.49	0.2084	1173.15	4.40
45	4818.57	0.1747	1204.11	6.11
46	4954.73	0.2250	1238.09	4.06
47	5177.13	0.2346	1293.57	3.61
48	5331.81	0.1988	1332.15	5.20
49	5513.22	0.1752	1377.39	6.38
50	5634.92	0.2353	1407.73	3.69
51	5846.68	0.0606	1460.52	47.89
52	5988.63	0.2512	1495.89	3.66
53	6356.44	0.1950	1587.52	4.83
54	6374.36	0.1632	1591.98	6.76
55	6924.20	0.2112	1728.85	4.13
56	7063.40	0.1116	1763.48	14.09
57	7396.20	0.2043	1846.24	4.09

? = Adjacent peak noted

Errors quoted at 1.000 sigma

Peak Analysis Report

2/15/2019 11:28:03 AM

Page 1

\*\*\*\*\*  
\*\*\*\*\* P E A K A N A L Y S I S R E P O R T \*\*\*\*\*  
\*\*\*\*\*

Detector Name: MIT1

Sample Title: Sample title.

Peak Analysis Performed on: 2/15/2019 11:28:03 AM

Peak Analysis From Channel: 1

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	13-	60	28.40	6.83	1.44	3.64E+004	176.14	7.54E+003
m	2	13-	60	39.13	9.51	1.46	6.41E+004	227.00	1.67E+004
m	3	13-	60	50.76	12.42	1.47	5.07E+004	211.83	2.91E+004
	4	140-	150	145.64	36.15	0.92	2.74E+002	169.61	1.19E+004
M	5	164-	191	175.06	43.51	0.86	4.55E+002	82.99	1.56E+004
m	6	164-	191	184.70	45.92	0.86	1.56E+004	150.79	1.69E+004
	7	204-	223	214.73	53.43	0.88	8.67E+004	412.53	2.37E+004
M	8	248-	270	253.98	63.25	0.90	1.47E+003	90.46	1.25E+004
m	9	248-	270	265.41	66.10	0.91	3.47E+002	80.73	1.38E+004
M	10	296-	318	300.33	74.84	0.74	5.91E+002	83.95	9.86E+003
m	11	296-	318	309.61	77.16	0.74	4.18E+002	79.28	1.21E+004
M	12	366-	398	371.73	92.69	1.04	3.20E+003	107.75	1.49E+004
m	13	366-	398	388.01	96.76	1.04	1.91E+003	100.05	2.00E+004
	14	477-	493	485.51	121.15	0.99	8.41E+003	279.55	2.23E+004
	15	537-	555	544.97	136.02	0.96	2.81E+004	328.61	2.35E+004
	16	571-	582	575.78	143.73	0.42	1.67E+002	192.25	1.47E+004
	17	612-	622	617.18	154.08	0.35	2.85E+001	176.46	1.30E+004
	18	732-	754	743.66	185.71	1.13	2.18E+003	328.50	2.72E+004
	19	788-	803	795.08	198.57	1.19	3.06E+002	229.87	1.75E+004
	20	947-	960	955.13	238.60	1.06	1.35E+003	194.99	1.33E+004

	21	1052-	1065	1059.38	264.68	1.04	1.60E+004	221.04	1.19E+004
	22	1110-	1126	1118.82	279.54	1.06	6.71E+003	223.69	1.39E+004
	23	1173-	1189	1181.62	295.25	0.78	6.47E+002	206.03	1.33E+004
	24	1209-	1224	1215.90	303.82	0.99	2.18E+002	196.19	1.27E+004
	25	1401-	1420	1408.21	351.92	0.95	1.12E+003	206.49	1.18E+004
	26	1590-	1615	1603.12	400.66	1.11	3.32E+003	245.53	1.34E+004
	27	2031-	2056	2044.38	511.01	2.53	1.50E+005	444.84	1.14E+004
	28	2320-	2341	2333.41	583.28	1.22	9.55E+002	119.61	3.56E+003
	29	2371-	2396	2383.98	595.92	1.29	1.04E+005	347.99	4.11E+003
	30	2425-	2446	2436.32	609.00	1.62	1.99E+003	122.12	3.45E+003
M	31	2513-	2552	2520.31	630.00	1.32	7.28E+002	46.18	2.21E+003
m	32	2513-	2552	2539.49	634.80	1.32	2.53E+004	163.09	2.34E+003
	33	2900-	2917	2910.85	727.63	0.48	2.03E+002	78.36	1.82E+003
	34	3173-	3194	3180.74	795.08	1.45	2.04E+002	87.11	1.96E+003
	35	3326-	3349	3337.21	834.18	1.43	5.77E+003	120.39	2.18E+003
	36	3636-	3659	3645.89	911.31	1.55	1.15E+003	90.99	1.78E+003
M	37	3846-	3889	3860.22	964.85	1.60	2.18E+002	31.58	1.29E+003
m	38	3846-	3889	3877.04	969.05	1.60	5.99E+002	40.19	1.36E+003
	39	3997-	4012	4004.45	1000.87	0.40	7.92E+001	54.66	9.67E+002
	40	4300-	4321	4311.20	1077.47	1.38	4.60E+002	64.93	1.00E+003
	41	4417-	4441	4427.78	1106.57	1.47	7.70E+002	77.38	1.26E+003
M	42	4449-	4492	4463.87	1115.58	1.65	1.13E+004	110.16	1.04E+003

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m	43	4449-	4492	4482.83	1120.32	1.65	4.75E+002	33.73	1.02E+003
	44	4684-	4705	4694.49	1173.15	0.63	2.86E+002	62.16	9.53E+002
	45	4808-	4828	4818.57	1204.11	0.44	2.50E+002	60.81	9.49E+002
	46	4942-	4966	4954.73	1238.09	1.22	2.42E+002	66.09	9.98E+002
	47	5167-	5191	5177.13	1293.57	0.78	1.73E+002	57.39	7.56E+002
	48	5318-	5341	5331.81	1332.15	0.52	1.24E+002	52.67	6.61E+002
	49	5504-	5521	5513.22	1377.39	1.37	1.92E+002	38.69	4.01E+002
	50	5625-	5640	5634.92	1407.73	0.38	6.22E+001	33.79	3.59E+002
	51	5833-	5861	5846.68	1460.52	1.84	7.42E+003	100.45	5.78E+002
	52	5982-	5996	5988.63	1495.89	0.52	2.09E+001	27.29	2.49E+002
M	53	6347-	6384	6356.70	1587.58	1.85	1.41E+002	19.05	3.01E+002
m	54	6347-	6384	6374.27	1591.96	1.85	2.38E+002	22.14	3.07E+002
	55	6914-	6931	6924.20	1728.85	1.41	7.31E+001	27.56	2.10E+002
	56	7050-	7075	7063.40	1763.48	1.43	7.05E+002	42.38	2.57E+002
	57	7386-	7404	7396.20	1846.24	0.35	1.35E+002	26.65	1.70E+002

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma

Peak Locate Analysis Report

2/15/2019 11:29:10 AM

Page 1

\*\*\*\*\*  
\*\*\*\*\* P E A K L O C A T E R E P O R T \*\*\*\*\*  
\*\*\*\*\*

Detector Name: MIT1

Sample Title: Sample title.

Peak Locate Performed on: 2/15/2019 11:29:10 AM

Peak Locate From Channel: 1

Peak Locate To Channel: 8192

Peak Search Sensitivity: 3.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	19.36	0.0566	4.57	103.04
2	39.74	0.0677	9.66	61.52
3	51.19	0.0564	12.53	94.29
4	145.64	0.2754	36.15	4.27
5	174.54	0.4158	43.38	3.11
6	184.74	0.0608	45.93	79.47
7	214.73	0.0354	53.43	226.98
8	254.01	0.1468	63.25	13.63
9	265.58	0.2469	66.14	5.14
10	300.33	0.2272	74.84	6.63
11	309.52	0.2865	77.13	3.92
12	371.65	0.1129	92.67	20.76
13	388.00	0.1476	96.76	13.75
14	485.51	0.0730	121.15	50.74
15	544.97	0.0485	136.02	116.94
16	575.78	0.2833	143.73	3.81
17	617.18	0.3187	154.08	3.05
18	743.66	0.1393	185.71	13.61
19	795.08	0.2244	198.57	5.48

20	955.13	0.1405	238.60	14.44
21	1059.38	0.0547	264.68	83.49
22	1118.82	0.0748	279.54	46.27
23	1181.62	0.2295	295.25	4.81
24	1215.90	0.2272	303.82	4.79
25	1408.21	0.1616	351.92	9.52
26	1603.12	0.0959	400.66	28.29
27	2044.38	0.0381	511.01	105.13
28	2333.41	0.1255	583.28	14.85
29	2383.98	0.0312	595.92	223.78
30	2436.32	0.0996	609.00	19.99
31	2520.32	0.1359	630.01	12.11
32	2539.47	0.0452	634.79	105.84
33	2910.85	0.2289	727.63	4.59
34	3180.74	0.2354	795.08	3.38
35	3337.21	0.0668	834.18	46.47
36	3645.89	0.1118	911.31	16.82
37	3860.23	0.2320	964.85	4.19
38	3876.89	0.1379	969.01	10.43
39	4004.45	0.2474	1000.87	4.00
40	4311.20	0.1568	1077.47	7.59
41	4427.78	0.1466	1106.57	7.52

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
42	4463.87	0.0550	1115.58	62.97
43	4482.91	0.1393	1120.34	10.32
44	4694.49	0.2084	1173.15	4.40
45	4818.57	0.1747	1204.11	6.11
46	4954.73	0.2250	1238.09	4.06
47	5177.13	0.2346	1293.57	3.61
48	5331.81	0.1988	1332.15	5.20
49	5513.22	0.1752	1377.39	6.38
50	5634.92	0.2353	1407.73	3.69
51	5846.68	0.0606	1460.52	47.89
52	5988.63	0.2512	1495.89	3.66
53	6356.44	0.1950	1587.52	4.83
54	6374.36	0.1632	1591.98	6.76
55	6924.20	0.2112	1728.85	4.13
56	7063.40	0.1116	1763.48	14.09
57	7396.20	0.2043	1846.24	4.09

? = Adjacent peak noted

Errors quoted at 1.000 sigma

Peak Analysis Report

2/15/2019 11:29:19 AM

Page 1

\*\*\*\*\*  
\*\*\*\*\* P E A K A N A L Y S I S R E P O R T \*\*\*\*\*  
\*\*\*\*\*

Detector Name: MIT1

Sample Title: Sample title.

Peak Analysis Performed on: 2/15/2019 11:29:19 AM

Peak Analysis From Channel: 1

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	13-	60	28.40	6.83	1.44	3.64E+004	176.14	7.54E+003
m	2	13-	60	39.13	9.51	1.46	6.41E+004	227.00	1.67E+004
m	3	13-	60	50.76	12.42	1.47	5.07E+004	211.83	2.91E+004
	4	140-	150	145.64	36.15	0.92	2.74E+002	169.61	1.19E+004
M	5	164-	191	175.06	43.51	0.86	4.55E+002	82.99	1.56E+004
m	6	164-	191	184.70	45.92	0.86	1.56E+004	150.79	1.69E+004
	7	204-	223	214.73	53.43	0.88	8.67E+004	412.53	2.37E+004
M	8	248-	270	253.98	63.25	0.90	1.47E+003	90.46	1.25E+004
m	9	248-	270	265.41	66.10	0.91	3.47E+002	80.73	1.38E+004
M	10	296-	318	300.33	74.84	0.74	5.91E+002	83.95	9.86E+003
m	11	296-	318	309.61	77.16	0.74	4.18E+002	79.28	1.21E+004
M	12	366-	398	371.73	92.69	1.04	3.20E+003	107.75	1.49E+004
m	13	366-	398	388.01	96.76	1.04	1.91E+003	100.05	2.00E+004
	14	477-	493	485.51	121.15	0.99	8.41E+003	279.55	2.23E+004
	15	537-	555	544.97	136.02	0.96	2.81E+004	328.61	2.35E+004
	16	571-	582	575.78	143.73	0.42	1.67E+002	192.25	1.47E+004
	17	612-	622	617.18	154.08	0.35	2.85E+001	176.46	1.30E+004
	18	732-	754	743.66	185.71	1.13	2.18E+003	328.50	2.72E+004
	19	788-	803	795.08	198.57	1.19	3.06E+002	229.87	1.75E+004
	20	947-	960	955.13	238.60	1.06	1.35E+003	194.99	1.33E+004

	21	1052-	1065	1059.38	264.68	1.04	1.60E+004	221.04	1.19E+004
	22	1110-	1126	1118.82	279.54	1.06	6.71E+003	223.69	1.39E+004
	23	1173-	1189	1181.62	295.25	0.78	6.47E+002	206.03	1.33E+004
	24	1209-	1224	1215.90	303.82	0.99	2.18E+002	196.19	1.27E+004
	25	1401-	1420	1408.21	351.92	0.95	1.12E+003	206.49	1.18E+004
	26	1590-	1615	1603.12	400.66	1.11	3.32E+003	245.53	1.34E+004
	27	2031-	2056	2044.38	511.01	2.53	1.50E+005	444.84	1.14E+004
	28	2320-	2341	2333.41	583.28	1.22	9.55E+002	119.61	3.56E+003
	29	2371-	2396	2383.98	595.92	1.29	1.04E+005	347.99	4.11E+003
	30	2425-	2446	2436.32	609.00	1.62	1.99E+003	122.12	3.45E+003
M	31	2513-	2552	2520.31	630.00	1.32	7.28E+002	46.18	2.21E+003
m	32	2513-	2552	2539.49	634.80	1.32	2.53E+004	163.09	2.34E+003
	33	2900-	2917	2910.85	727.63	0.48	2.03E+002	78.36	1.82E+003
	34	3173-	3194	3180.74	795.08	1.45	2.04E+002	87.11	1.96E+003
	35	3326-	3349	3337.21	834.18	1.43	5.77E+003	120.39	2.18E+003
	36	3636-	3659	3645.89	911.31	1.55	1.15E+003	90.99	1.78E+003
M	37	3846-	3889	3860.22	964.85	1.60	2.18E+002	31.58	1.29E+003
m	38	3846-	3889	3877.04	969.05	1.60	5.99E+002	40.19	1.36E+003
	39	3997-	4012	4004.45	1000.87	0.40	7.92E+001	54.66	9.67E+002
	40	4300-	4321	4311.20	1077.47	1.38	4.60E+002	64.93	1.00E+003
	41	4417-	4441	4427.78	1106.57	1.47	7.70E+002	77.38	1.26E+003
M	42	4449-	4492	4463.87	1115.58	1.65	1.13E+004	110.16	1.04E+003

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
m	43	4449-	4492	4482.83	1120.32	1.65	4.75E+002	33.73	1.02E+003
	44	4684-	4705	4694.49	1173.15	0.63	2.86E+002	62.16	9.53E+002
	45	4808-	4828	4818.57	1204.11	0.44	2.50E+002	60.81	9.49E+002
	46	4942-	4966	4954.73	1238.09	1.22	2.42E+002	66.09	9.98E+002
	47	5167-	5191	5177.13	1293.57	0.78	1.73E+002	57.39	7.56E+002
	48	5318-	5341	5331.81	1332.15	0.52	1.24E+002	52.67	6.61E+002
	49	5504-	5521	5513.22	1377.39	1.37	1.92E+002	38.69	4.01E+002
	50	5625-	5640	5634.92	1407.73	0.38	6.22E+001	33.79	3.59E+002
	51	5833-	5861	5846.68	1460.52	1.84	7.42E+003	100.45	5.78E+002
	52	5982-	5996	5988.63	1495.89	0.52	2.09E+001	27.29	2.49E+002
M	53	6347-	6384	6356.70	1587.58	1.85	1.41E+002	19.05	3.01E+002
m	54	6347-	6384	6374.27	1591.96	1.85	2.38E+002	22.14	3.07E+002
	55	6914-	6931	6924.20	1728.85	1.41	7.31E+001	27.56	2.10E+002
	56	7050-	7075	7063.40	1763.48	1.43	7.05E+002	42.38	2.57E+002
	57	7386-	7404	7396.20	1846.24	0.35	1.35E+002	26.65	1.70E+002

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma