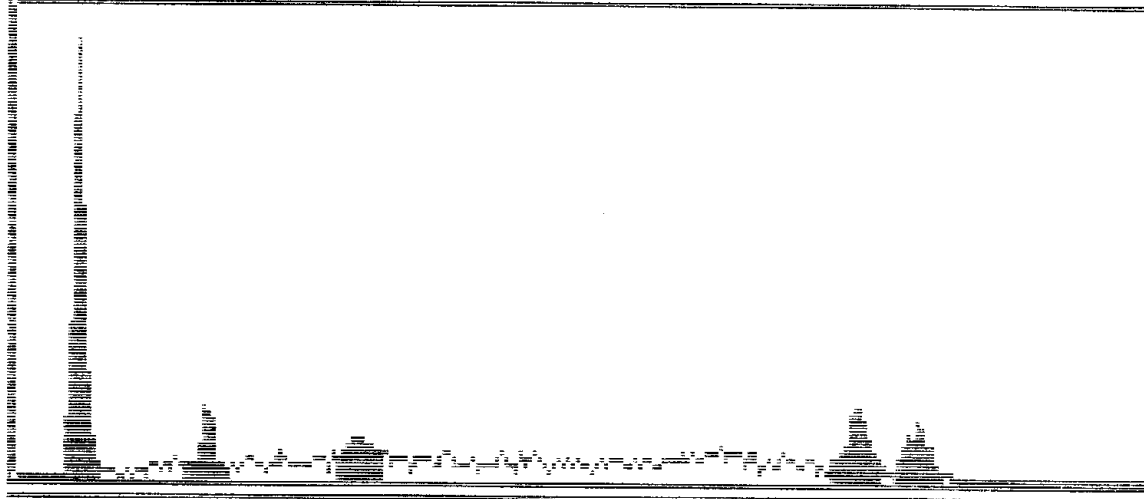


MCA REPORT

|                 |                   |              |         |
|-----------------|-------------------|--------------|---------|
| DATE:           | 24-Sep-1999 04:01 | BIAS:        | 1200    |
| EN CAL DATE:    | 24-Sep-1999 02:53 | COARSE GAIN: | 4       |
| BKG DATE:       | 06-Jul-1999 11:38 | FINE GAIN:   | 2.22    |
| GROSS CPM:      | 163905            | LOW DISC:    | 1.00%   |
| NET CPM:        | 149501            | HIGH DISC:   | 100.05% |
| GROSS INTEGRAL: | 6966              | ELAPSED LT:  | 2.55    |
| NET INTEGRAL:   | 6353              | ELAPSED RT:  | 2.62    |
|                 |                   | DEAD TIME:   | 2.67%   |

FULL SCALE: 484



PEAKS FOUND

| CHN | ENERGY (keV) | GROSS CPM | AMBIENT CPM | CONTINUUM CPM | NET CPM      | UNC % |       |
|-----|--------------|-----------|-------------|---------------|--------------|-------|-------|
| 15  | 18.9         | 45623     | 282         | 1035          | 44305 ± 2.34 |       | Cd109 |
| 44  | 88.9         | 11341     | 2258        | 3741          | 5341 ± 9.69  |       | Cd109 |
| 78  | 232.9        | 10305     | 1482        | 7505          | 1317 ± 37.4  |       |       |
| 189 | 1160.2       | 11694     | 47          | 2964          | 8682 ± 6.04  |       | Co60  |
| 202 | 1320.2       | 8800      | 23          | 2447          | 6329 ± 7.19  |       | Co60  |

2 OF 2 LIBRARY LINES FOR Cd109 FOUND Correlation = 1.00

| LINE | PEAK | INTENSITY | NET CPM |
|------|------|-----------|---------|
| 22.6 | 18.9 | 102.00    | 44305   |
| 88.0 | 88.3 | 3.61      | 5341    |

2 OF 2 LIBRARY LINES FOR Co60 FOUND Correlation = 0.98

| LINE   | PEAK   | INTENSITY | NET CPM |
|--------|--------|-----------|---------|
| 1173.2 | 1160.6 | 99.90     | 8682    |
| 1332.5 | 1322.3 | 99.98     | 6329    |

NUCLIDES NOT PRESENT:

2 OF 7 LIBRARY LINES FOR Eu152 FOUND Correlation = 0.02  
 0 OF 1 LIBRARY LINES FOR Am241 FOUND Correlation = 0.00  
 0 OF 2 LIBRARY LINES FOR Cs137 FOUND Correlation = 0.00

LINES NOT ASSOCIATED WITH ANY NUCLIDE:

| Energy | Net CPM | Eff Corrected |
|--------|---------|---------------|
| 233.1  | 1317.6  | 8952.8 C      |