

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
 Data File : VD071408.D  
 Acq On : 21 Dec 2021 13:57  
 Operator : VA/SY  
 Sample : M5179-02  
 Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 POST-EXCAVATION-BOTTOM-EAST

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Title : SW846 8260

Signal : TIC: VD071408.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.967       | 507           | 518         | 529          | rBV3     | 44505          | 165011        | 1.37%           | 0.111%        |
| 2         | 7.214       | 885           | 900         | 918          | rBV      | 4495857        | 12077708      | 100.00%         | 8.128%        |
| 3         | 7.914       | 1008          | 1019        | 1024         | rBV      | 390980         | 923291        | 7.64%           | 0.621%        |
| 4         | 7.979       | 1024          | 1030        | 1040         | rVB      | 678971         | 1533156       | 12.69%          | 1.032%        |
| 5         | 8.332       | 1080          | 1090        | 1102         | rVB      | 334821         | 756820        | 6.27%           | 0.509%        |
| 6         | 8.861       | 1171          | 1180        | 1191         | rBV      | 1057915        | 2104836       | 17.43%          | 1.416%        |
| 7         | 9.108       | 1212          | 1222        | 1232         | rBV      | 1517918        | 2999809       | 24.84%          | 2.019%        |
| 8         | 10.338      | 1423          | 1431        | 1446         | rBV      | 1668633        | 3117564       | 25.81%          | 2.098%        |
| 9         | 10.873      | 1514          | 1522        | 1530         | rVV      | 6694042        | 11878641      | 98.35%          | 7.994%        |
| 10        | 10.949      | 1530          | 1535        | 1541         | rVB2     | 122915         | 231076        | 1.91%           | 0.156%        |
| 11        | 11.049      | 1545          | 1552        | 1559         | rBV2     | 116675         | 245904        | 2.04%           | 0.165%        |
| 12        | 11.120      | 1559          | 1564        | 1569         | rVV2     | 88456          | 155258        | 1.29%           | 0.104%        |
| 13        | 11.185      | 1571          | 1575        | 1580         | rVV      | 101216         | 174532        | 1.45%           | 0.117%        |
| 14        | 11.243      | 1580          | 1585        | 1590         | rVB      | 177616         | 310450        | 2.57%           | 0.209%        |
| 15        | 11.349      | 1598          | 1603        | 1607         | rBV2     | 262763         | 444070        | 3.68%           | 0.299%        |
| 16        | 11.414      | 1607          | 1614        | 1617         | rBV      | 409453         | 789906        | 6.54%           | 0.532%        |
| 17        | 11.520      | 1627          | 1632        | 1643         | rVB      | 690908         | 1230613       | 10.19%          | 0.828%        |
| 18        | 11.638      | 1643          | 1652        | 1660         | rBV      | 1470611        | 2737780       | 22.67%          | 1.842%        |
| 19        | 11.773      | 1670          | 1675        | 1679         | rBV2     | 256231         | 416026        | 3.44%           | 0.280%        |
| 20        | 11.832      | 1679          | 1685        | 1686         | rBV4     | 343457         | 591059        | 4.89%           | 0.398%        |
| 21        | 11.855      | 1686          | 1689        | 1690         | rVV      | 397038         | 515781        | 4.27%           | 0.347%        |
| 22        | 11.885      | 1690          | 1694        | 1698         | rVV      | 986612         | 1630634       | 13.50%          | 1.097%        |
| 23        | 11.926      | 1698          | 1701        | 1707         | rVB2     | 622112         | 951082        | 7.87%           | 0.640%        |
| 24        | 12.014      | 1707          | 1716        | 1719         | rBV4     | 259335         | 647859        | 5.36%           | 0.436%        |
| 25        | 12.073      | 1719          | 1726        | 1731         | rBV2     | 1137423        | 2034876       | 16.85%          | 1.369%        |
| 26        | 12.149      | 1731          | 1739        | 1744         | rBV3     | 2802737        | 6030617       | 49.93%          | 4.058%        |
| 27        | 12.196      | 1744          | 1747        | 1750         | rVV2     | 716751         | 1008074       | 8.35%           | 0.678%        |
| 28        | 12.261      | 1751          | 1758        | 1763         | rVB      | 3470307        | 5704257       | 47.23%          | 3.839%        |
| 29        | 12.343      | 1763          | 1772        | 1774         | rBV4     | 1946614        | 4674981       | 38.71%          | 3.146%        |
| 30        | 12.379      | 1774          | 1778        | 1789         | rVV2     | 2769567        | 7441136       | 61.61%          | 5.008%        |
| 31        | 12.467      | 1789          | 1793        | 1794         | rVV2     | 621070         | 925530        | 7.66%           | 0.623%        |
| 32        | 12.514      | 1794          | 1801        | 1804         | rVV4     | 2653453        | 6339657       | 52.49%          | 4.266%        |
| 33        | 12.549      | 1804          | 1807        | 1815         | rVB      | 4233506        | 7294344       | 60.40%          | 4.909%        |
| 34        | 12.626      | 1815          | 1820        | 1824         | rBV2     | 2209103        | 3721633       | 30.81%          | 2.505%        |
| 35        | 12.661      | 1824          | 1826        | 1829         | rVB      | 440495         | 418525        | 3.47%           | 0.282%        |
| 36        | 12.714      | 1830          | 1835        | 1839         | rBV4     | 781719         | 1370386       | 11.35%          | 0.922%        |

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 Operator : VA/SY  
 Sample : M5179-02  
 Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 POST-EXCAVATION-BOTTOM-EAST

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |          |        |        |
|----|--------|------|------|------|------|---------|----------|--------|--------|
| 37 | 12.755 | 1839 | 1842 | 1843 | rVV2 | 379606  | 439971   | 3.64%  | 0.296% |
| 38 | 12.790 | 1843 | 1848 | 1855 | rVB3 | 2075281 | 4381573  | 36.28% | 2.949% |
| 39 | 12.873 | 1855 | 1862 | 1866 | rBV5 | 1299983 | 3010998  | 24.93% | 2.026% |
| 40 | 12.943 | 1866 | 1874 | 1880 | rVV4 | 4586719 | 10102558 | 83.65% | 6.799% |
| 41 | 13.002 | 1880 | 1884 | 1889 | rVB2 | 1891122 | 3082420  | 25.52% | 2.074% |
| 42 | 13.049 | 1889 | 1892 | 1894 | rBV3 | 219745  | 293736   | 2.43%  | 0.198% |
| 43 | 13.090 | 1894 | 1899 | 1902 | rBV2 | 1696054 | 2499200  | 20.69% | 1.682% |
| 44 | 13.138 | 1902 | 1907 | 1910 | rVV2 | 1710535 | 3102277  | 25.69% | 2.088% |
| 45 | 13.173 | 1910 | 1913 | 1920 | rVV  | 3892711 | 6015686  | 49.81% | 4.048% |
| 46 | 13.255 | 1921 | 1927 | 1932 | rVV2 | 1286255 | 2614910  | 21.65% | 1.760% |
| 47 | 13.302 | 1932 | 1935 | 1939 | rVB  | 1106300 | 1415593  | 11.72% | 0.953% |
| 48 | 13.355 | 1940 | 1944 | 1947 | rBV2 | 612681  | 952959   | 7.89%  | 0.641% |
| 49 | 13.455 | 1953 | 1961 | 1965 | rBV3 | 2432124 | 4837935  | 40.06% | 3.256% |
| 50 | 13.496 | 1965 | 1968 | 1971 | rVV2 | 1372491 | 1701456  | 14.09% | 1.145% |
| 51 | 13.532 | 1971 | 1974 | 1976 | rVV  | 292532  | 312376   | 2.59%  | 0.210% |
| 52 | 13.561 | 1976 | 1979 | 1983 | rVV  | 1156107 | 1504664  | 12.46% | 1.013% |
| 53 | 13.637 | 1989 | 1992 | 1999 | rVB3 | 365093  | 520487   | 4.31%  | 0.350% |
| 54 | 13.720 | 2000 | 2006 | 2009 | rBV6 | 179920  | 404604   | 3.35%  | 0.272% |
| 55 | 13.808 | 2016 | 2021 | 2024 | rBV3 | 344393  | 624277   | 5.17%  | 0.420% |
| 56 | 13.885 | 2029 | 2034 | 2039 | rBV2 | 1644552 | 2767866  | 22.92% | 1.863% |
| 57 | 13.926 | 2039 | 2041 | 2046 | rVB2 | 245521  | 299016   | 2.48%  | 0.201% |
| 58 | 13.990 | 2049 | 2052 | 2054 | rBV3 | 132801  | 179218   | 1.48%  | 0.121% |
| 59 | 14.026 | 2055 | 2058 | 2059 | rBV2 | 125150  | 154031   | 1.28%  | 0.104% |
| 60 | 14.102 | 2067 | 2071 | 2076 | rVB  | 562879  | 907365   | 7.51%  | 0.611% |
| 61 | 14.208 | 2084 | 2089 | 2095 | rVB5 | 319585  | 566685   | 4.69%  | 0.381% |
| 62 | 14.273 | 2095 | 2100 | 2106 | rBV8 | 222188  | 424606   | 3.52%  | 0.286% |
| 63 | 14.349 | 2107 | 2113 | 2117 | rBV8 | 142712  | 336133   | 2.78%  | 0.226% |
| 64 | 14.396 | 2117 | 2121 | 2124 | rBV3 | 249921  | 396310   | 3.28%  | 0.267% |
| 65 | 14.467 | 2130 | 2133 | 2137 | rVB  | 148974  | 196842   | 1.63%  | 0.132% |
| 66 | 14.508 | 2137 | 2140 | 2144 | rBV3 | 121614  | 183885   | 1.52%  | 0.124% |
| 67 | 14.555 | 2146 | 2148 | 2155 | rVB3 | 102451  | 141574   | 1.17%  | 0.095% |
| 68 | 14.737 | 2176 | 2179 | 2184 | rVB3 | 100647  | 148445   | 1.23%  | 0.100% |
| 69 | 14.802 | 2185 | 2190 | 2196 | rVV2 | 164684  | 346167   | 2.87%  | 0.233% |
| 70 | 14.861 | 2197 | 2200 | 2206 | rVB4 | 80012   | 136018   | 1.13%  | 0.092% |

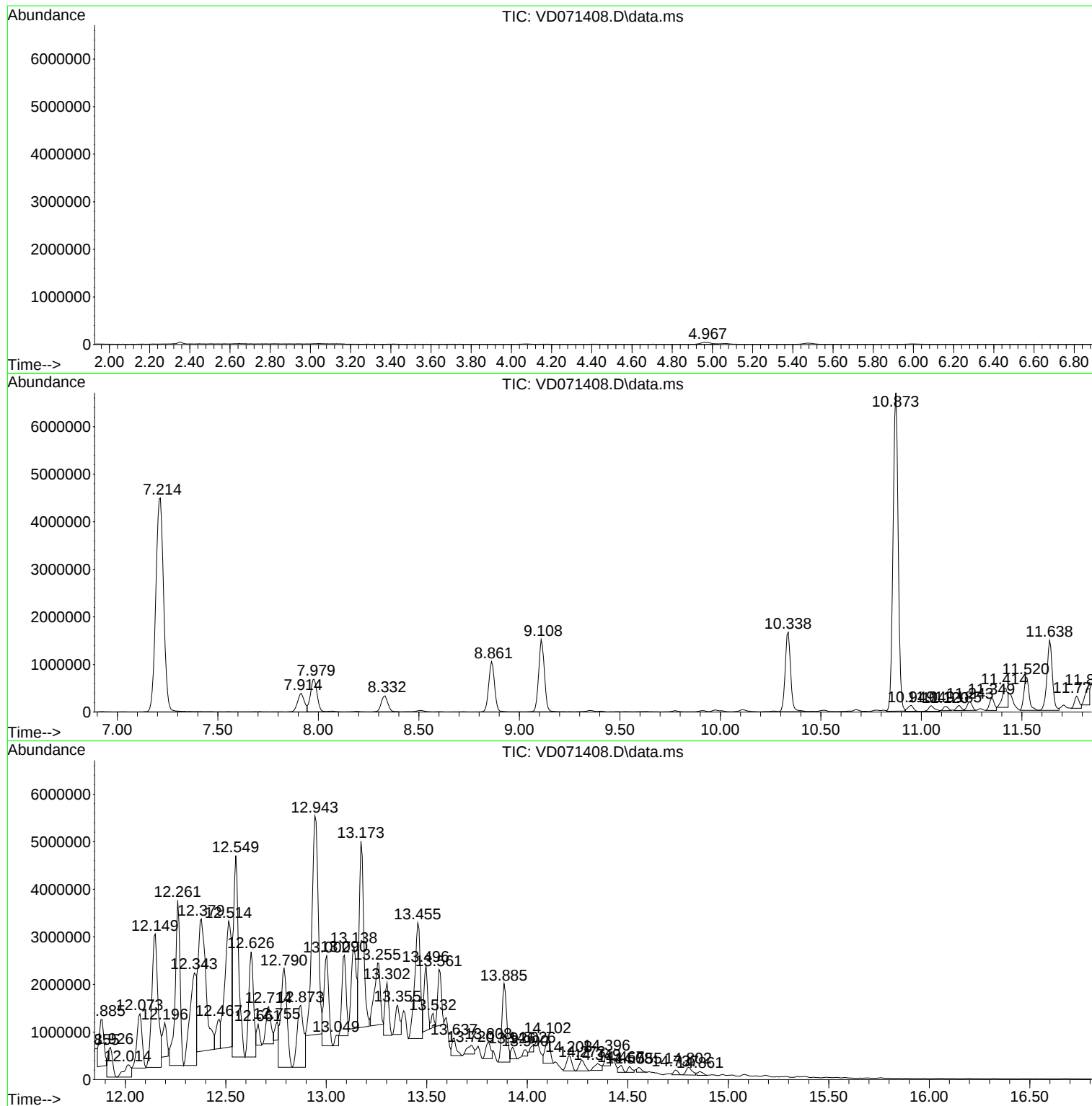
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
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Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

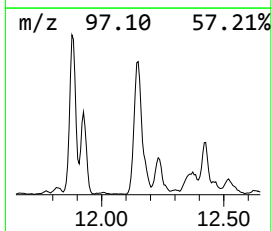
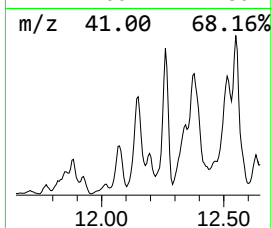
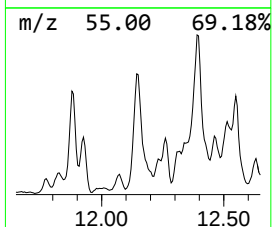
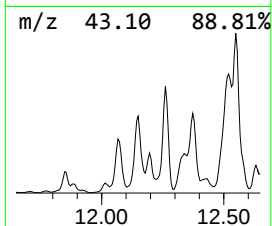
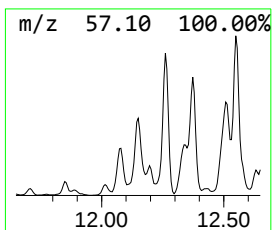
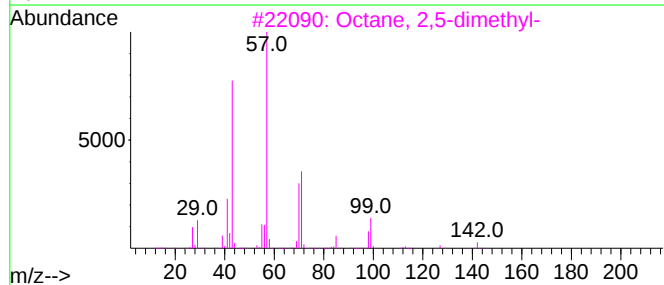
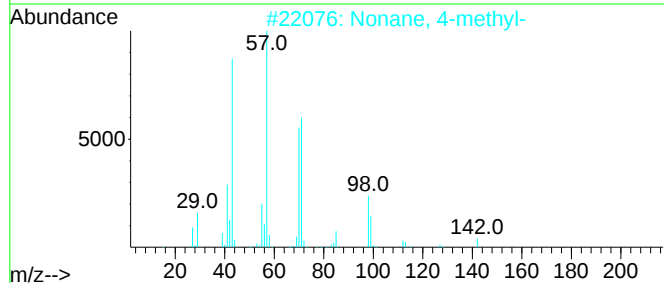
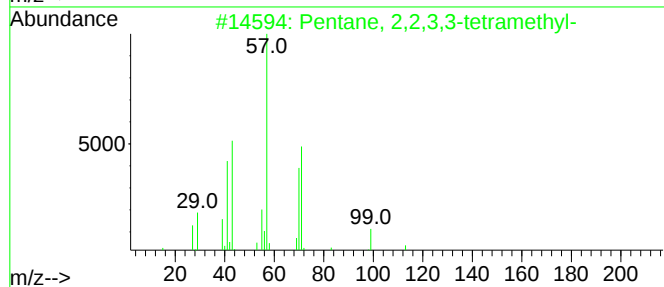
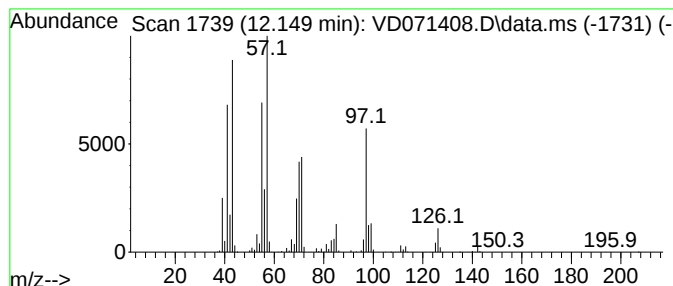
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown12.149 Concentration Rank 3

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 12.149 | 110.14 ug/l | 6030620 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20   | 007154-79-2 | 47   |
| 2    |    |   | Nonane, 4-methyl-             | 142 | C10H22  | 017301-94-9 | 47   |
| 3    |    |   | Octane, 2,5-dimethyl-         | 142 | C10H22  | 015869-89-3 | 46   |
| 4    |    |   | Octane, 3,5-dimethyl-         | 142 | C10H22  | 015869-93-9 | 46   |
| 5    |    |   | 1-Heptene, 4-methyl-          | 112 | C8H16   | 013151-05-8 | 38   |



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Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

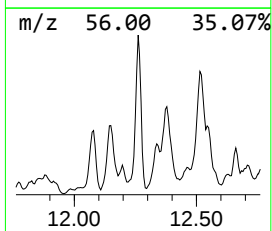
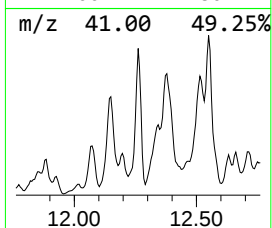
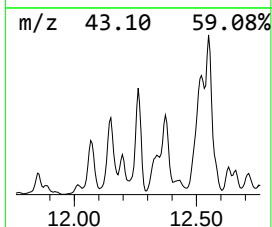
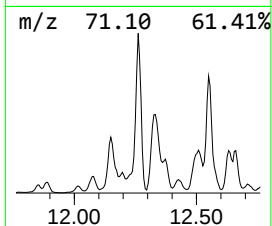
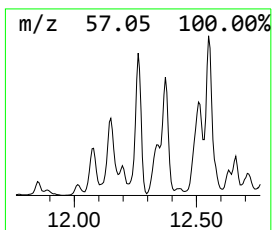
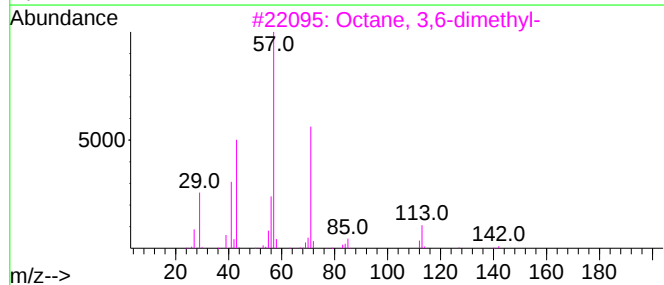
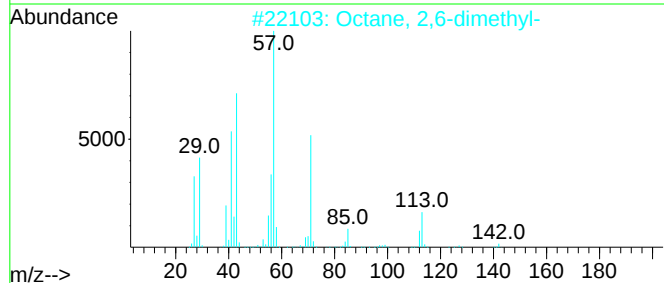
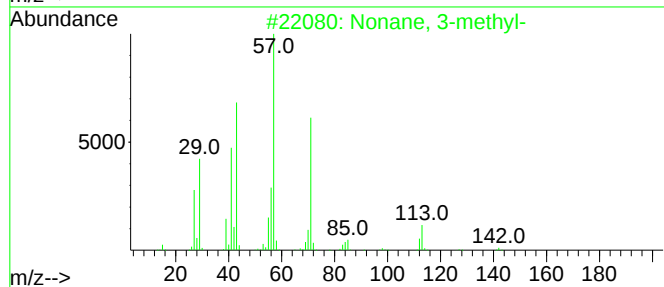
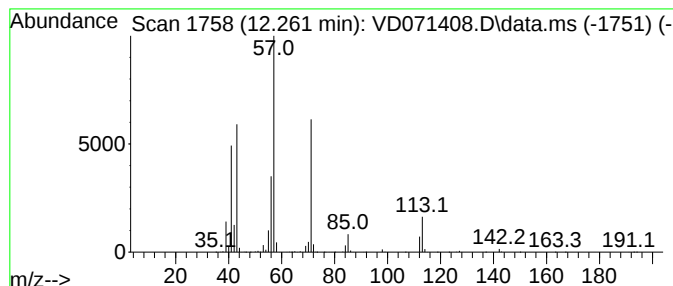
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Nonane, 3-methyl- Concentration Rank 4

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 12.261 | 104.18 ug/l | 5704260 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 91   |
| 2    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 3    |    |   | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 87   |
| 4    |    |   | Butane, 2,2-dimethyl- | 86  | C6H14   | 000075-83-2 | 53   |
| 5    |    |   | Nonane, 3,7-dimethyl- | 156 | C11H24  | 017302-32-8 | 53   |



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ALS Vial : 1 Sample Multiplier: 1

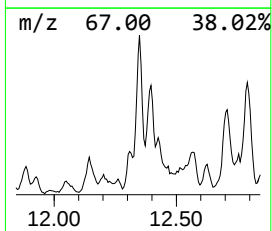
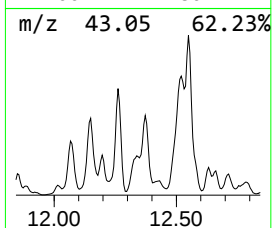
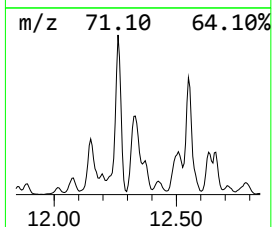
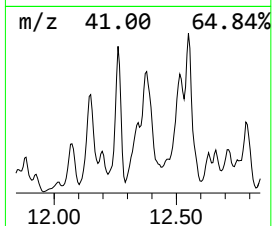
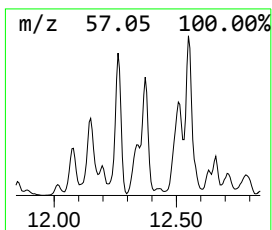
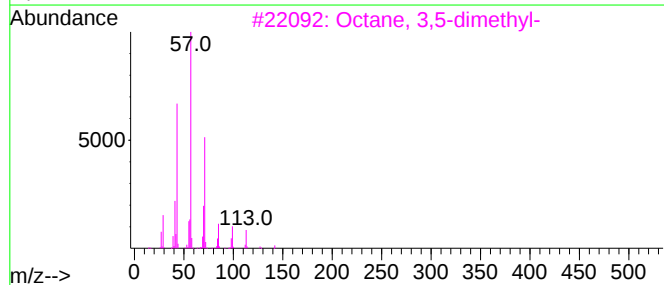
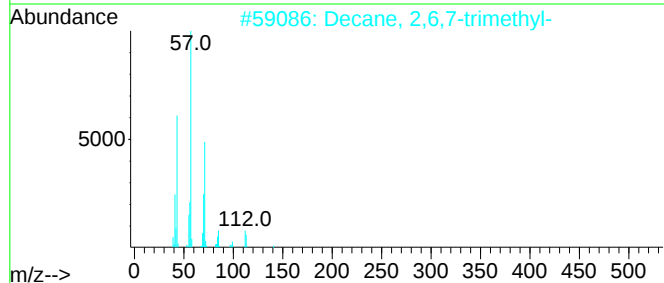
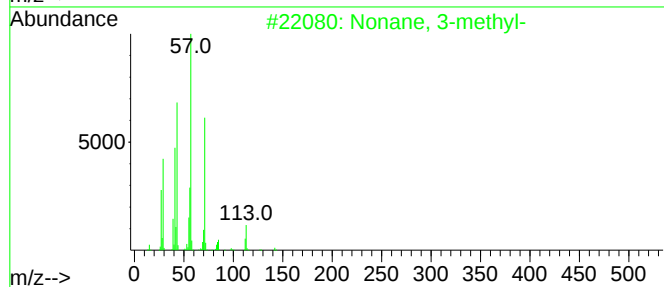
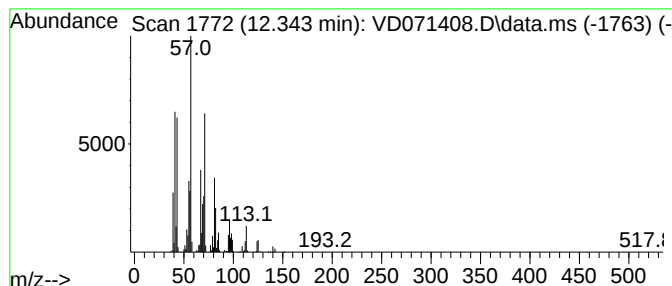
Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Decane, 2,6,7-trimethyl- Concentration Rank 9

| R.T.      | EstConc                  | Area    | Relative to ISTD |         |             | R.T.   |
|-----------|--------------------------|---------|------------------|---------|-------------|--------|
| 12.343    | 85.38 ug/l               | 4674980 | Chlorobenzene-d5 |         |             | 11.638 |
| Hit# of 5 | Tentative ID             |         | MW               | MolForm | CAS#        | Qual   |
| 1         | Nonane, 3-methyl-        |         | 142              | C10H22  | 005911-04-6 | 60     |
| 2         | Decane, 2,6,7-trimethyl- |         | 184              | C13H28  | 062108-25-2 | 50     |
| 3         | Octane, 3,5-dimethyl-    |         | 142              | C10H22  | 015869-93-9 | 49     |
| 4         | Octane, 3,6-dimethyl-    |         | 142              | C10H22  | 015869-94-0 | 46     |
| 5         | Tridecane, 7-methyl-     |         | 198              | C14H30  | 026730-14-3 | 43     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

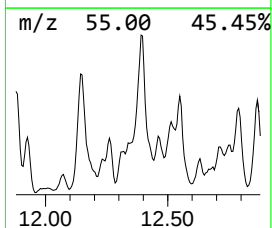
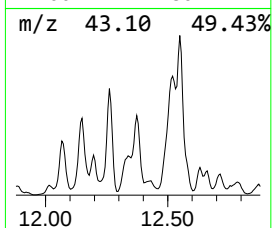
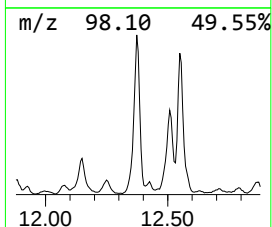
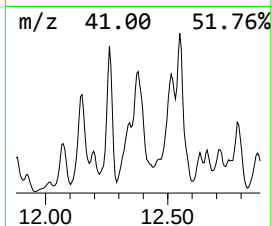
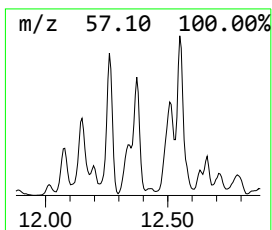
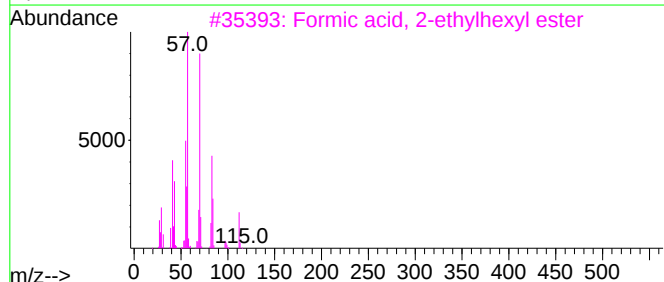
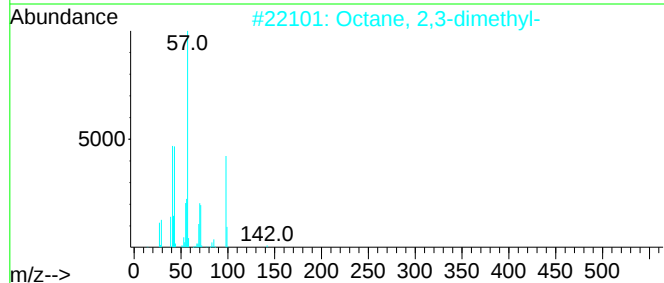
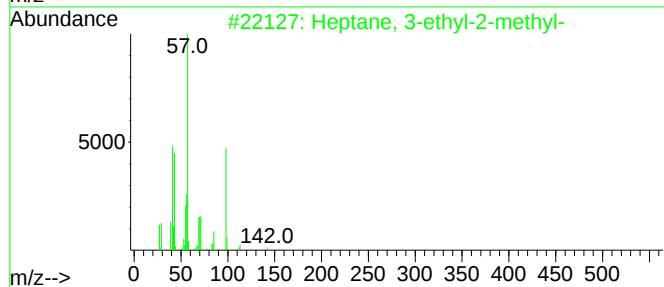
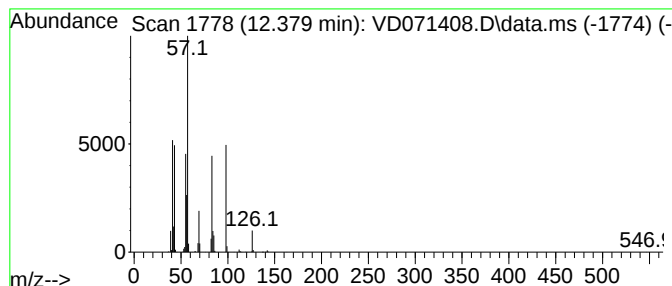
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown12.379 Concentration Rank 1

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 12.379 | 135.90 ug/l | 7441140 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------|-----|---------|--------------|------|
| 1    |    |   | Heptane, 3-ethyl-2-methyl-       | 142 | C10H22  | 014676-29-0  | 47   |
| 2    |    |   | Octane, 2,3-dimethyl-            | 142 | C10H22  | 007146-60-3  | 46   |
| 3    |    |   | Formic acid, 2-ethylhexyl ester  | 158 | C9H18O2 | 1000368-94-7 | 38   |
| 4    |    |   | 2-Heptenal, (E)-                 | 112 | C7H12O  | 018829-55-5  | 37   |
| 5    |    |   | Furan, 2,5-dihydro-3,4-dimethyl- | 98  | C6H10O  | 053720-72-2  | 37   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

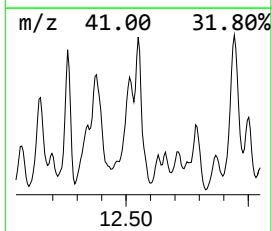
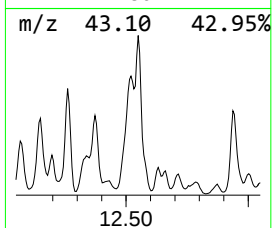
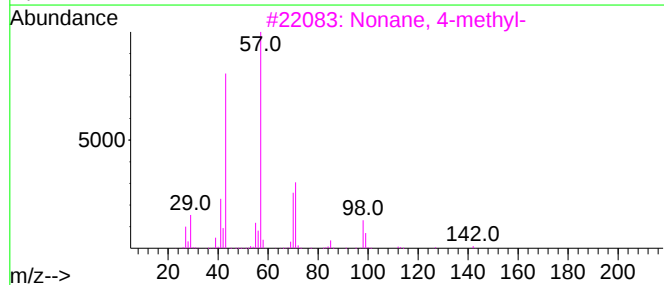
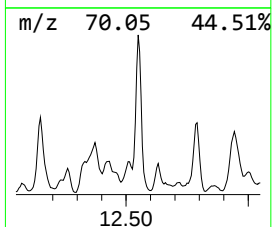
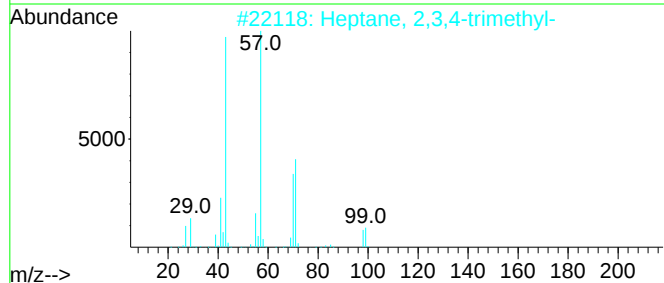
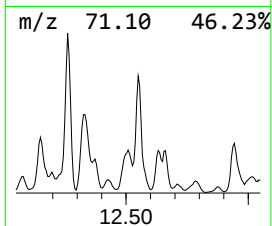
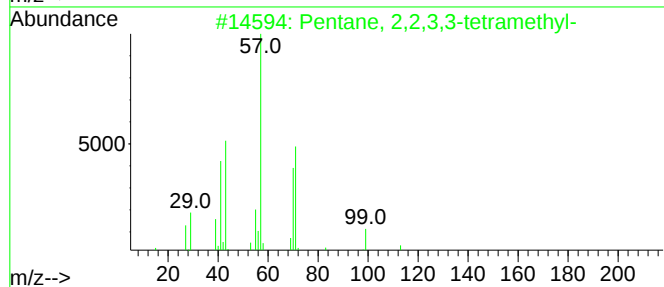
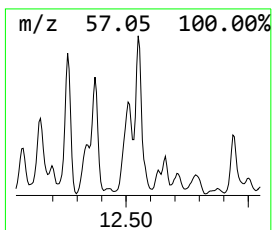
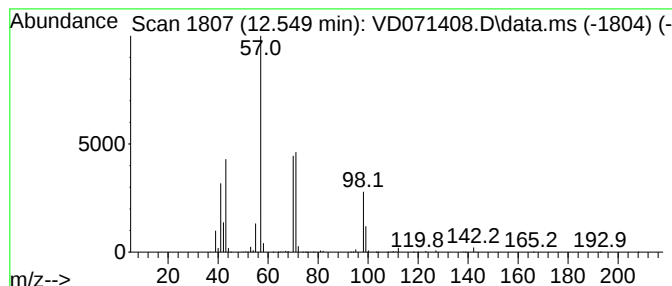
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Pentane, 2,2,3,3-tetramethyl- Concentration Rank 2

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 12.549 | 133.22 ug/l | 7294340 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20   | 007154-79-2 | 64   |
| 2    |    |   | Heptane, 2,3,4-trimethyl-     | 142 | C10H22  | 052896-95-4 | 64   |
| 3    |    |   | Nonane, 4-methyl-             | 142 | C10H22  | 017301-94-9 | 64   |
| 4    |    |   | Octane, 3,5-dimethyl-         | 142 | C10H22  | 015869-93-9 | 59   |
| 5    |    |   | Heptane, 4-propyl-            | 142 | C10H22  | 003178-29-8 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

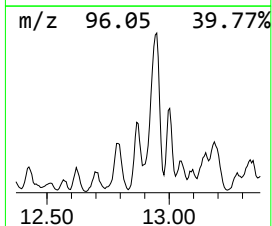
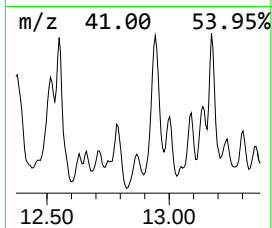
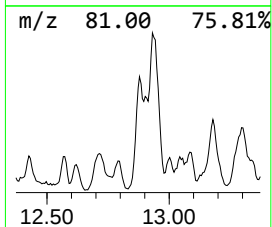
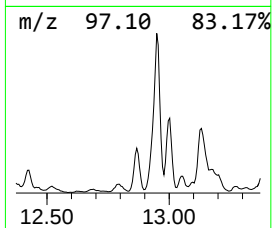
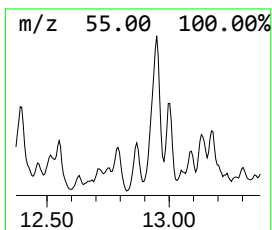
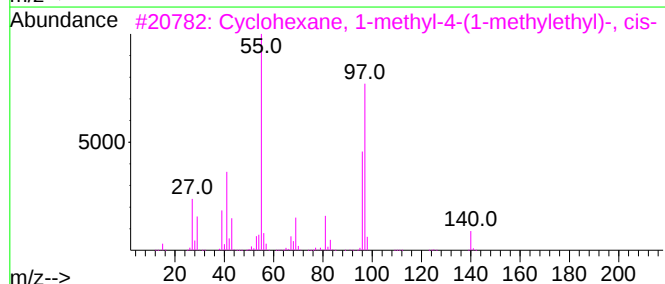
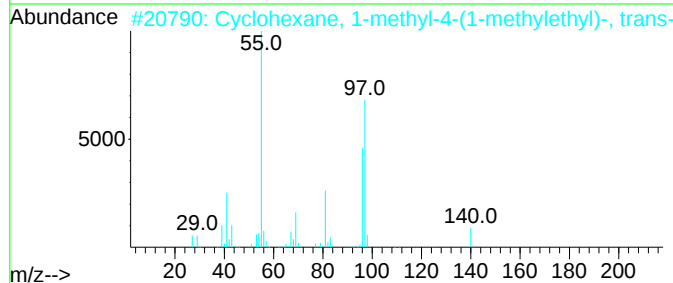
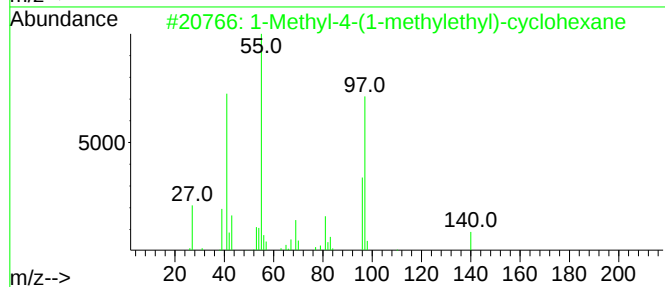
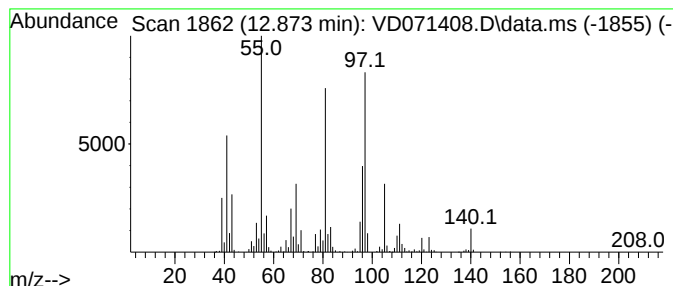
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Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown12.873 Concentration Rank 7

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 12.873 | 100.06 ug/l | 3011000 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20  | 000099-82-1 | 49   |
| 2    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 46   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 46   |
| 4    |    |   | m-Menthane, (1S,3S)-(+)-            | 140 | C10H20  | 013837-67-7 | 46   |
| 5    |    |   | 2,4-Hexadiene, 3-methyl-            | 96  | C7H12   | 028823-42-9 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

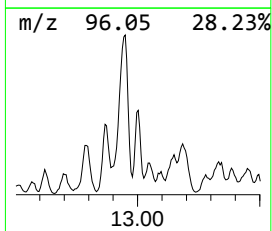
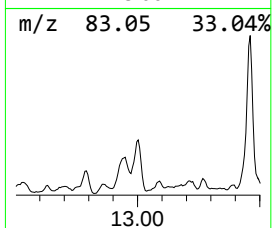
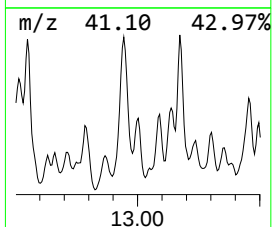
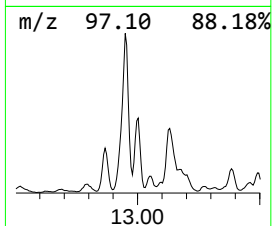
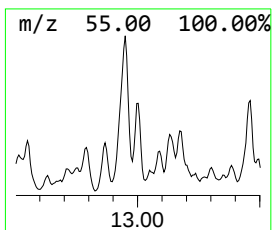
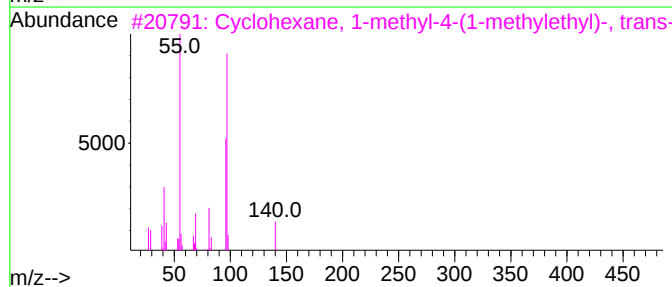
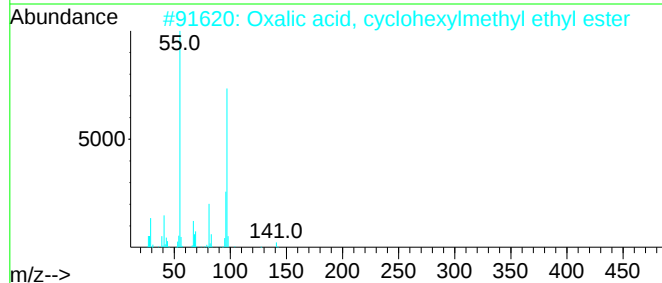
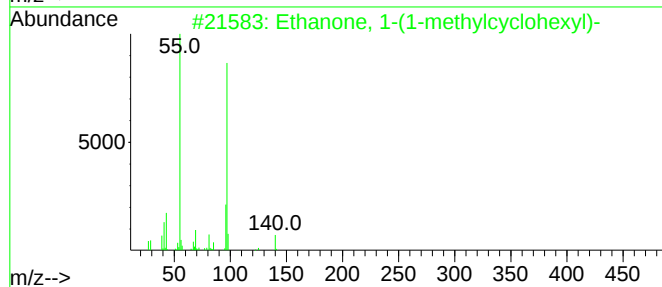
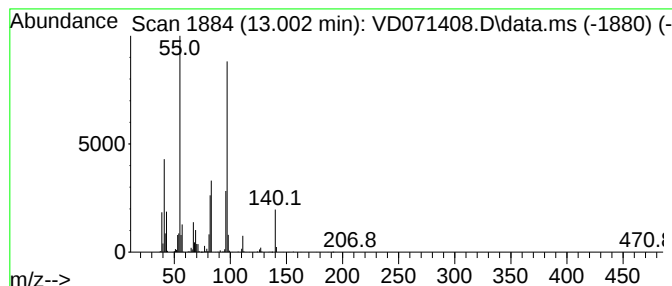
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Ethanone, 1-(1-methylcyclohexyl) Concentration Rank 6

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.002 | 102.43 ug/l | 3082420 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Ethanone, 1-(1-methylcyclohexyl)-   | 140 | C9H16O   | 002890-62-2  | 68   |
| 2    |    |   | Oxalic acid, cyclohexylmethyl et... | 214 | C11H18O4 | 1000309-68-0 | 53   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20   | 001678-82-6  | 52   |
| 4    |    |   | Cyclopentane, 1,1'-ethylidenebis-   | 166 | C12H22   | 004413-21-2  | 50   |
| 5    |    |   | Cyclohexane, 1-methyl-2-propyl-     | 140 | C10H20   | 004291-79-6  | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

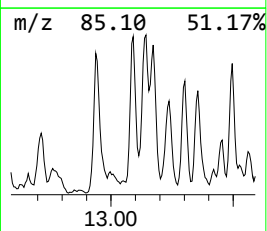
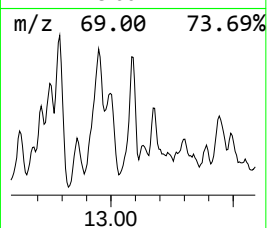
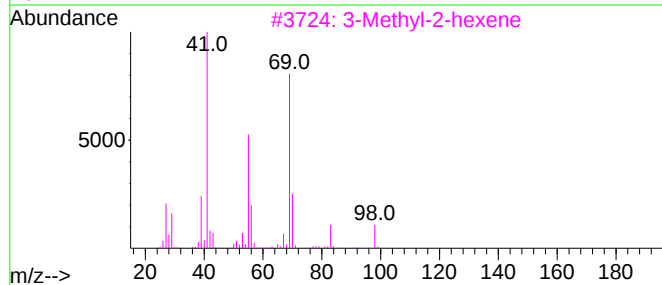
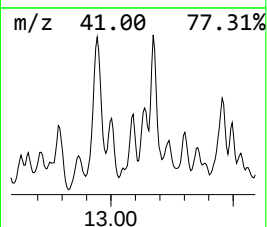
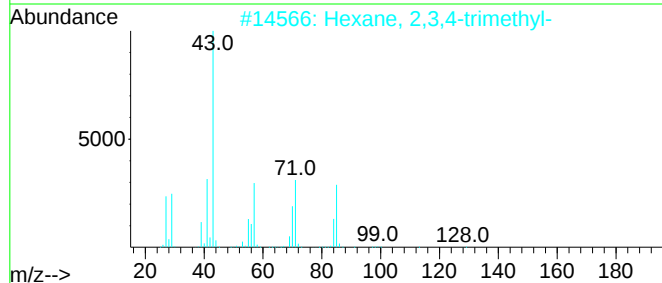
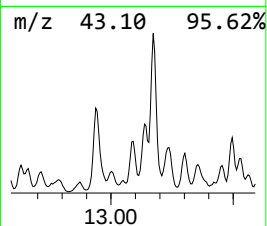
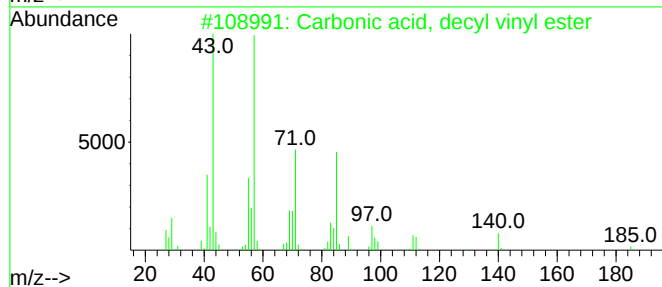
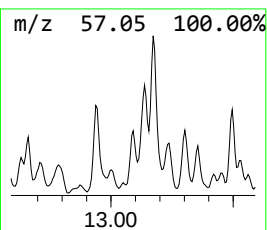
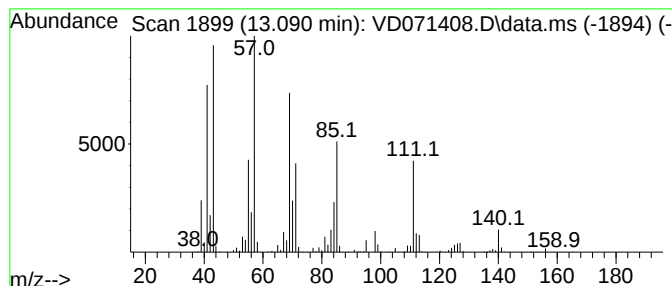
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown13.090 Concentration Rank 10

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.090 | 83.05 ug/l | 2499200 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#         | Qual |
|------|----|---|----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Carbonic acid, decyl vinyl ester | 228 | C13H24O3 | 1000383-25-7 | 43   |
| 2    |    |   | Hexane, 2,3,4-trimethyl-         | 128 | C9H20    | 000921-47-1  | 38   |
| 3    |    |   | 3-Methyl-2-hexene                | 98  | C7H14    | 017618-77-8  | 38   |
| 4    |    |   | 2-Hexene, 3-methyl-, (Z)-        | 98  | C7H14    | 010574-36-4  | 38   |
| 5    |    |   | 2-Hexene, 4-ethyl-2,3-dimethyl-  | 140 | C10H20   | 1000149-19-7 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

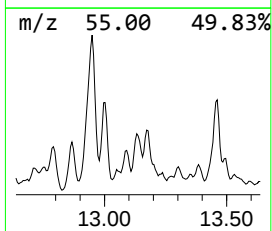
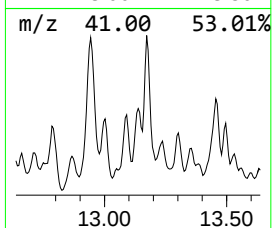
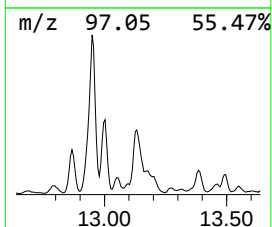
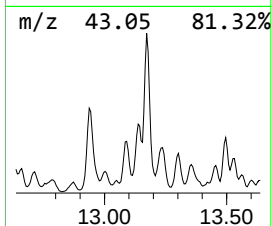
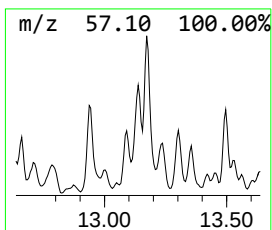
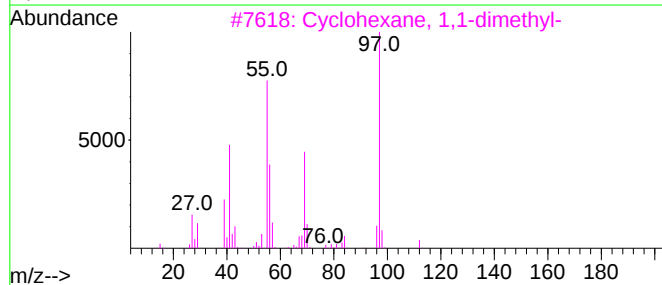
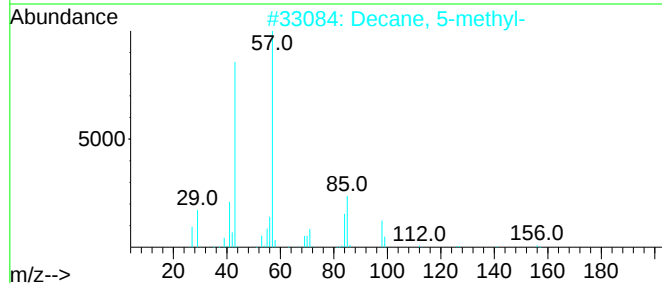
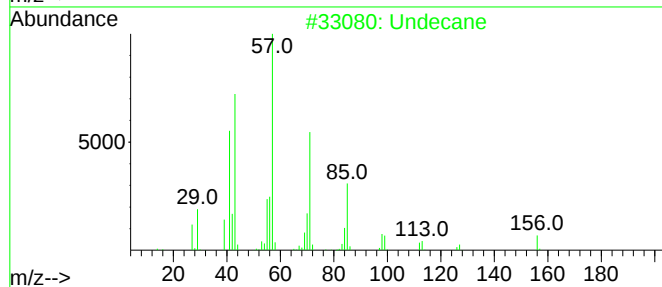
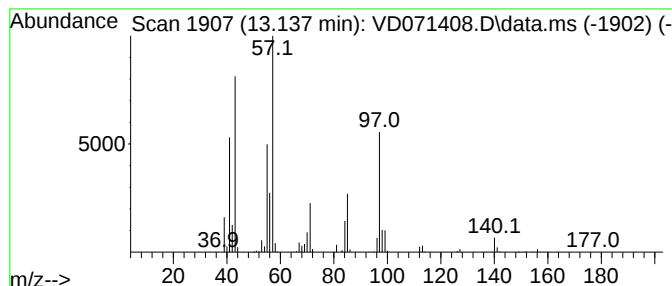
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 unknown13.137 Concentration Rank 5

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.137 | 103.09 ug/l | 3102280 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Undecane                           | 156 | C11H24   | 001120-21-4  | 46   |
| 2    |    |   | Decane, 5-methyl-                  | 156 | C11H24   | 013151-35-4  | 38   |
| 3    |    |   | Cyclohexane, 1,1-dimethyl-         | 112 | C8H16    | 000590-66-9  | 38   |
| 4    |    |   | Oxalic acid, isobutyl nonyl ester  | 272 | C15H28O4 | 1010309-37-4 | 38   |
| 5    |    |   | Oxalic acid, heptyl isohexyl ester | 272 | C15H28O4 | 1000309-33-1 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071408.D  
Acq On : 21 Dec 2021 13:57  
Operator : VA/SY  
Sample : M5179-02  
Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

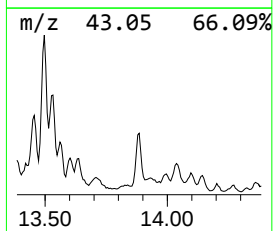
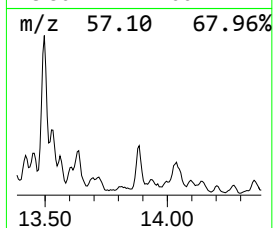
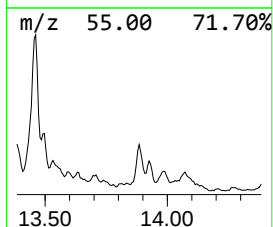
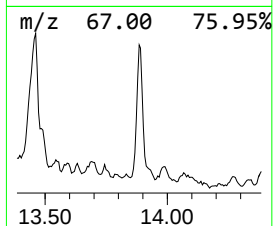
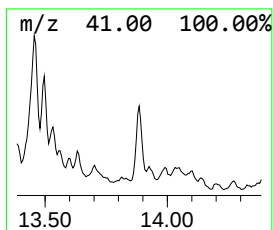
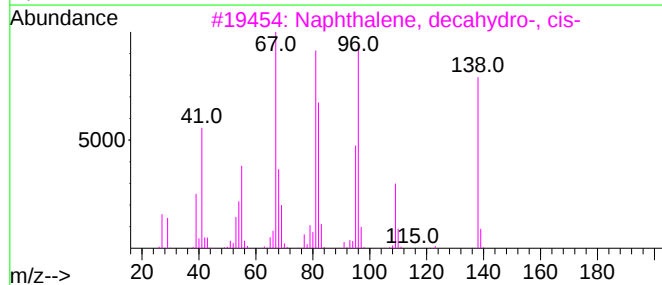
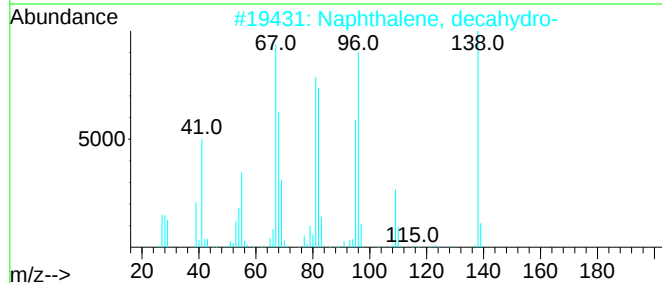
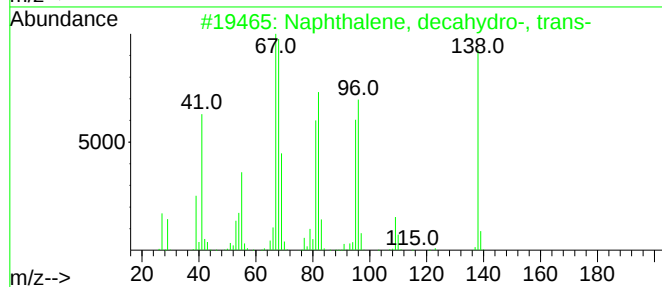
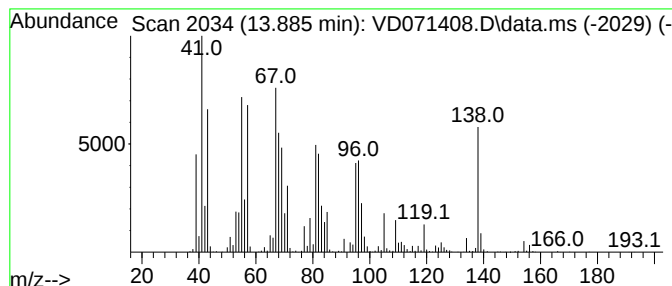
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, decahydro-, tr... Concentration Rank 8

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.884 | 91.98 ug/l | 2767870 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|------|---------------------------------|-----|---------|-------------|------|
| 1    |      | Naphthalene, decahydro-, trans- | 138 | C10H18  | 000493-02-7 | 97   |
| 2    |      | Naphthalene, decahydro-         | 138 | C10H18  | 000091-17-8 | 93   |
| 3    |      | Naphthalene, decahydro-, cis-   | 138 | C10H18  | 000493-01-6 | 76   |
| 4    |      | Cyclodecene                     | 138 | C10H18  | 003618-12-0 | 68   |
| 5    |      | 1,1'-Bicyclopentyl              | 138 | C10H18  | 001636-39-1 | 58   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
 Data File : VD071408.D  
 Acq On : 21 Dec 2021 13:57  
 Operator : VA/SY  
 Sample : M5179-02  
 Misc : 6.27G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 POST-EXCAVATION-BOTTOM-EAST

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| unknown12.149      | 12.149 | 110.1   | ug/l  | 6030620  | 3                     | 11.638 | 2737780 | 50.0 |
| Nonane, 3-methyl-  | 12.261 | 104.2   | ug/l  | 5704260  | 3                     | 11.638 | 2737780 | 50.0 |
| Decane, 2,6,7-t... | 12.343 | 85.4    | ug/l  | 4674980  | 3                     | 11.638 | 2737780 | 50.0 |
| unknown12.379      | 12.379 | 135.9   | ug/l  | 7441140  | 3                     | 11.638 | 2737780 | 50.0 |
| Pentane, 2,2,3,... | 12.549 | 133.2   | ug/l  | 7294340  | 3                     | 11.638 | 2737780 | 50.0 |
| unknown12.873      | 12.873 | 100.1   | ug/l  | 3011000  | 4                     | 13.567 | 1504660 | 50.0 |
| Ethanone, 1-(1-... | 13.002 | 102.4   | ug/l  | 3082420  | 4                     | 13.567 | 1504660 | 50.0 |
| unknown13.090      | 13.090 | 83.0    | ug/l  | 2499200  | 4                     | 13.567 | 1504660 | 50.0 |
| unknown13.137      | 13.137 | 103.1   | ug/l  | 3102280  | 4                     | 13.567 | 1504660 | 50.0 |
| Naphthalene, de... | 13.884 | 92.0    | ug/l  | 2767870  | 4                     | 13.567 | 1504660 | 50.0 |