

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121223\  
 Data File : VD077840.D  
 Acq On : 12 Dec 2023 14:24  
 Operator : JC/SY  
 Sample : 05720-02RE  
 Misc : 7.20G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 12 14:41:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 08 13:33:18 2023  
 Response via : Initial Calibration

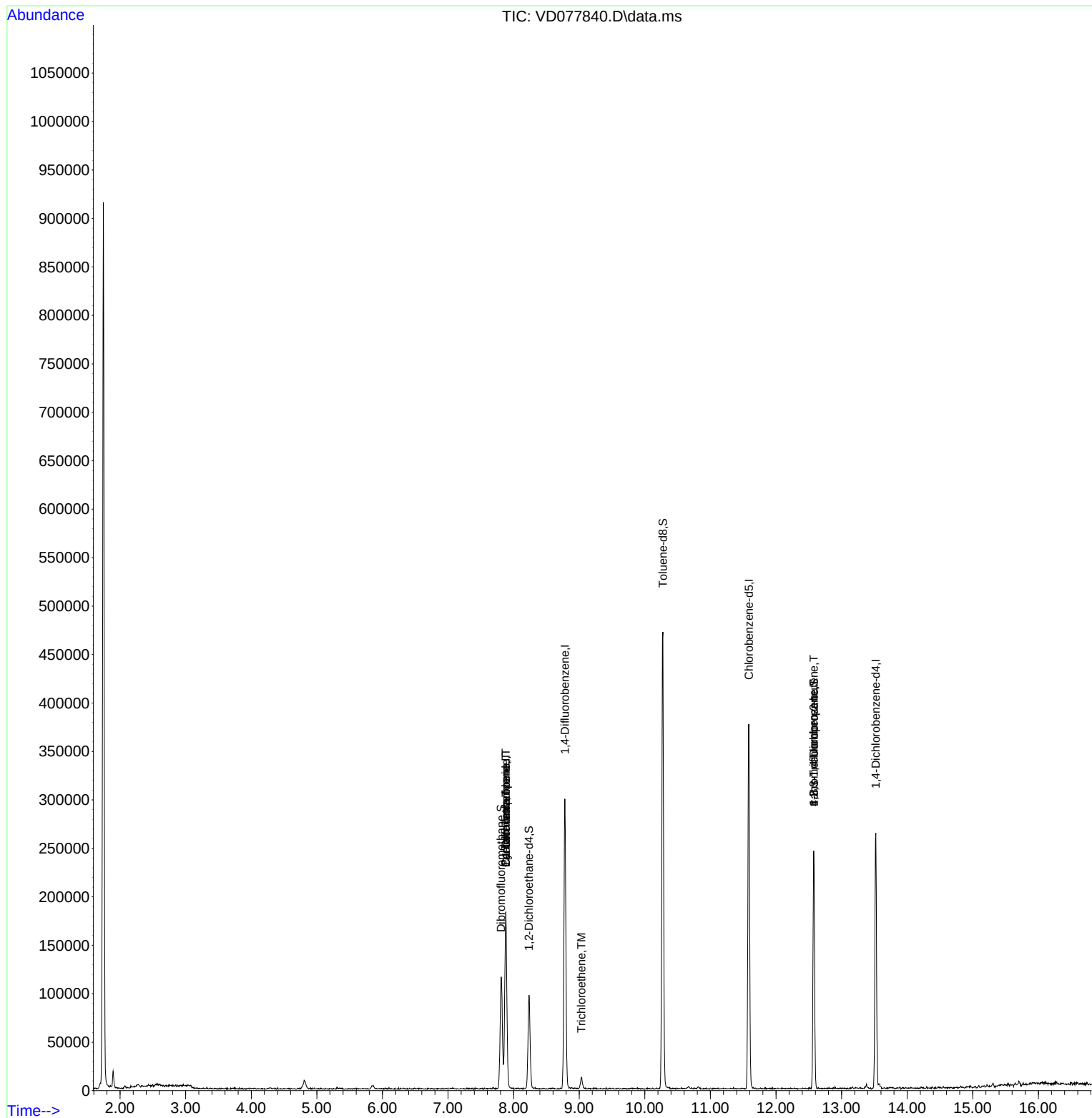
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.881  | 168   | 136854   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 265825   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.587 | 117   | 222992   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 72575    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 75556    | 46.853    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 93.700%  |
| 35) Dibromofluoromethane      | 7.810  | 113   | 84063    | 45.146    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 90.300%  |
| 50) Toluene-d8                | 10.275 | 98    | 334008   | 44.788    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 89.580%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 74506    | 33.416    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 66.840%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.064  | 59    | 72       | Below Cal | #      | 73       |
| 16) Acetone                   | 4.040  | 43    | 384      | Below Cal | #      | 32       |
| 20) Methylene Chloride        | 4.811  | 84    | 6080     | Below Cal | #      | 89       |
| 25) 2-Butanone                | 7.087  | 43    | 63       | Below Cal | #      | 37       |
| 31) Cyclohexane               | 7.881  | 56    | 3882     | 1.353     | ug/l # | 50       |
| 36) 1,1-Dichloropropene       | 7.881  | 75    | 10713    | 3.597     | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 7.881  | 117   | 13609    | 4.583     | ug/l # | 14       |
| 44) Trichloroethene           | 9.034  | 130   | 3792     | 1.721     | ug/l   | 99       |
| 65) Chlorobenzene             | 11.616 | 112   | 295      | Below Cal | #      | 43       |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 40513    | 64.274    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 40513    | 130.223   | ug/l # | 17       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146   | 599      | Below Cal | #      | 1        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.322 | 75    | 55       | Below Cal | #      | 1        |
| -----                         |        |       |          |           |        |          |

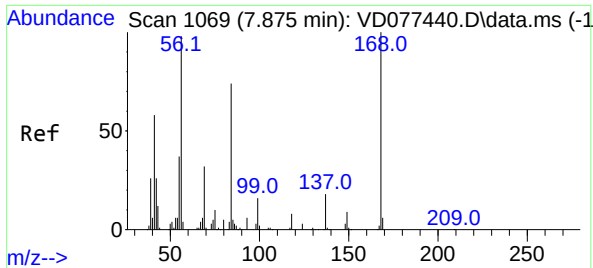
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Dec 08 13:33:18 2023  
Response via : Initial Calibration

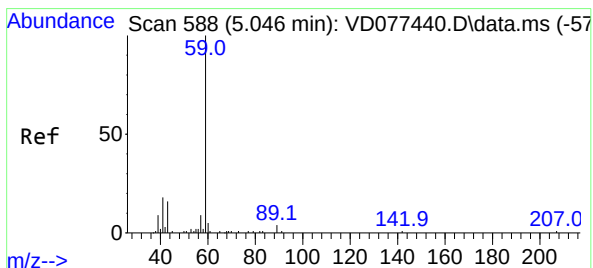
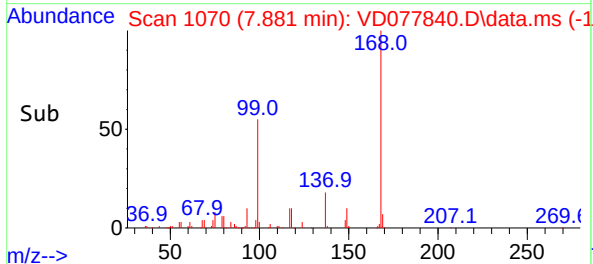
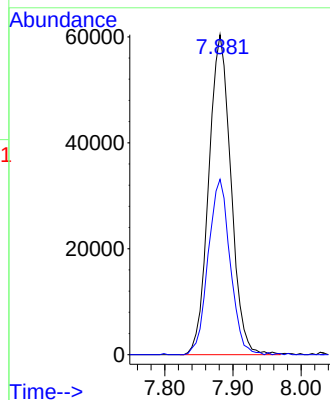
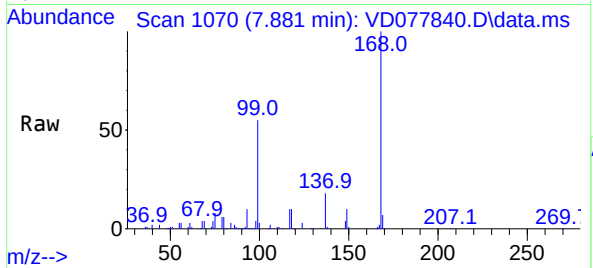




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

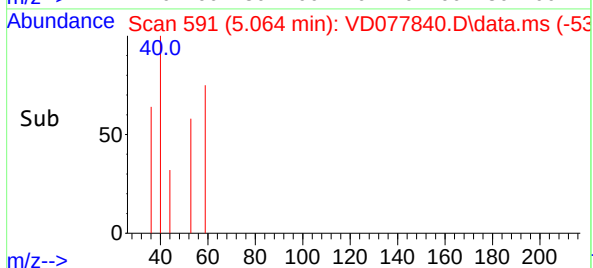
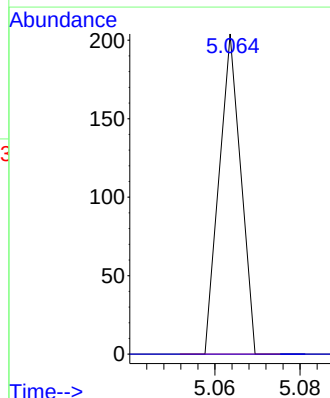
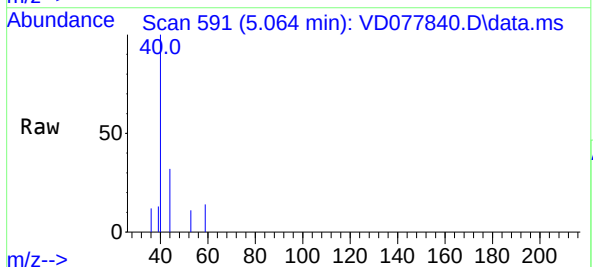
Instrument :  
MSVOA\_D  
ClientSampleId :

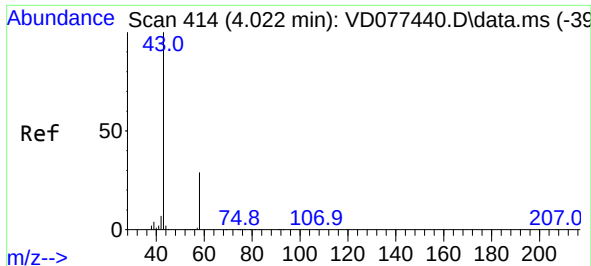
Tgt Ion:168 Resp: 136854  
Ion Ratio Lower Upper  
168 100  
99 54.8 36.7 55.1



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.064 min Scan# 591  
Delta R.T. 0.018 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Tgt Ion: 59 Resp: 72  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

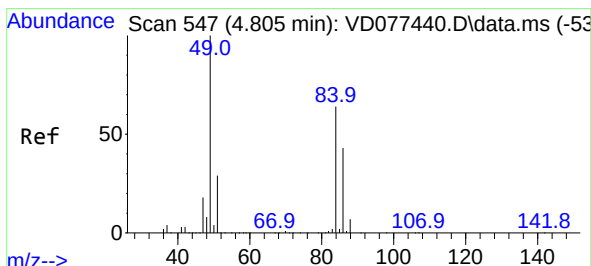
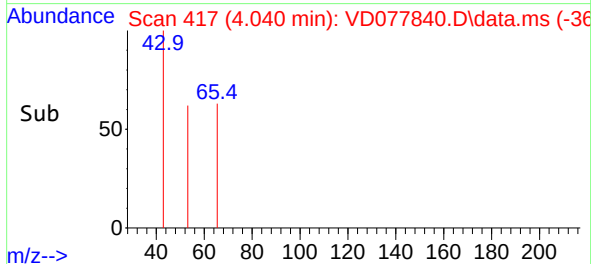
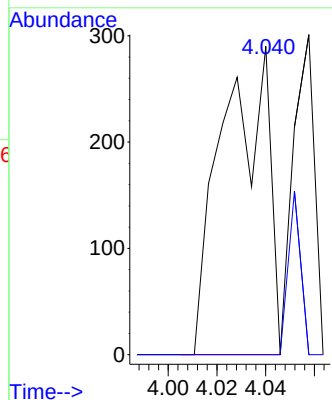
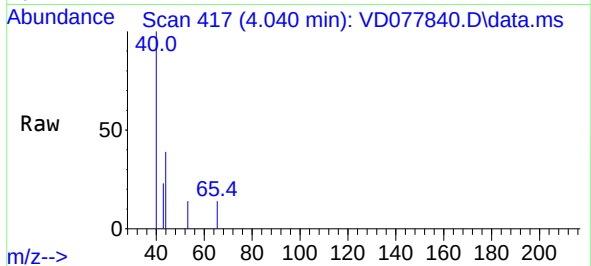




#16  
Acetone  
Concen: Below Cal  
RT: 4.040 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

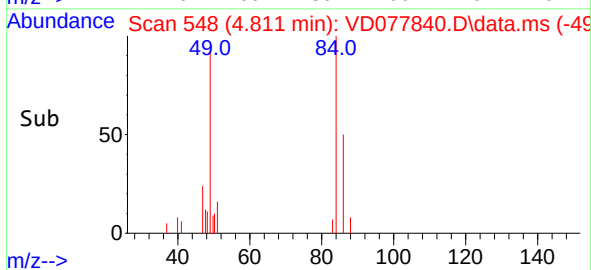
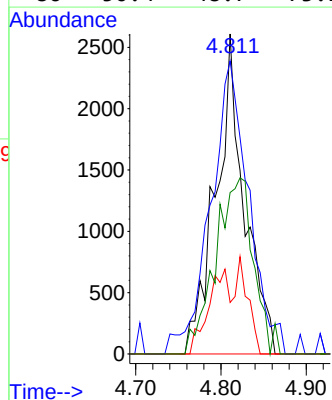
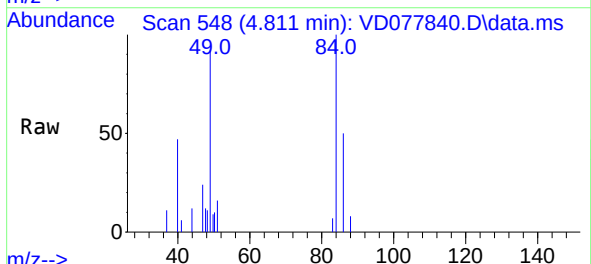
Instrument :  
MSVOA\_D  
ClientSampleId :

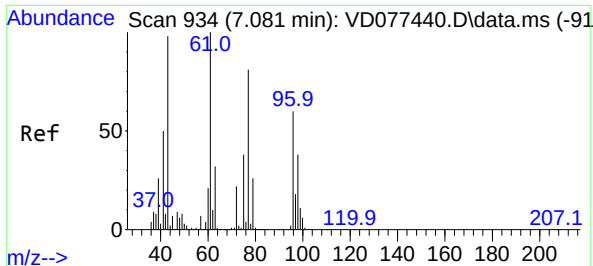
Tgt Ion: 43 Resp: 384  
Ion Ratio Lower Upper  
43 100  
58 0.0 34.7 52.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.811 min Scan# 548  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Tgt Ion: 84 Resp: 6080  
Ion Ratio Lower Upper  
84 100  
49 85.6 71.4 107.2  
51 16.1 24.5 36.7#  
86 50.4 48.7 73.1





#25

2-Butanone

Concen: Below Cal

RT: 7.087 min Scan# 91

Delta R.T. 0.006 min

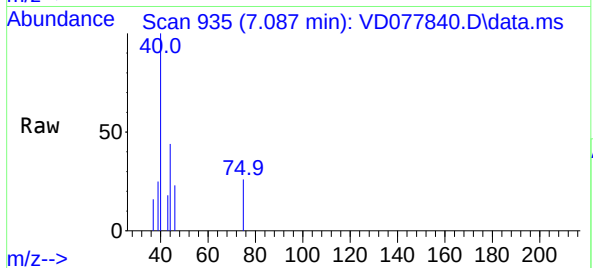
Lab File: VD077840.D

Acq: 12 Dec 2023 14:24

Instrument :

MSVOA\_D

ClientSampleId :

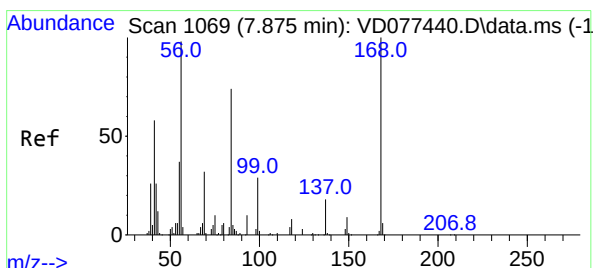
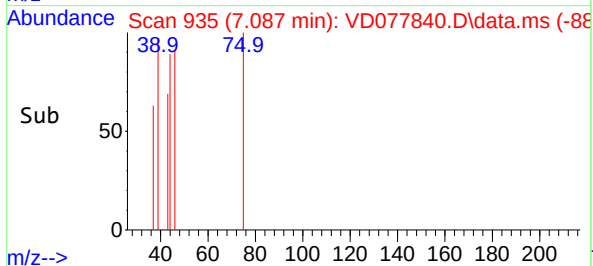
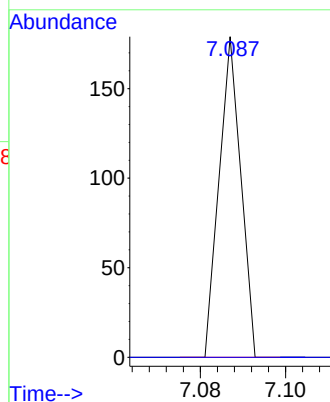


Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

72 0.0 30.7 46.1#



#31

Cyclohexane

Concen: 1.353 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. 0.006 min

Lab File: VD077840.D

Acq: 12 Dec 2023 14:24

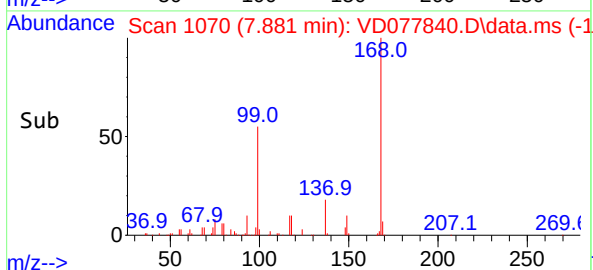
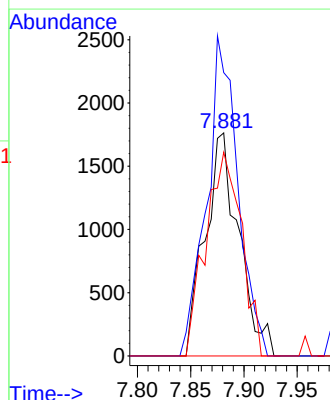
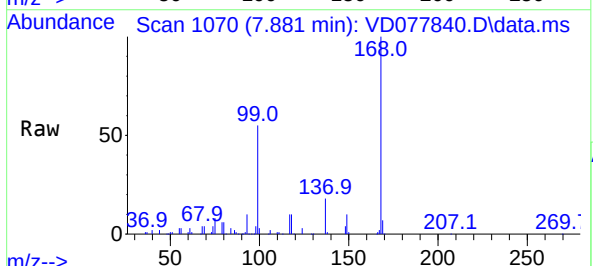
Tgt Ion: 56 Resp: 3882

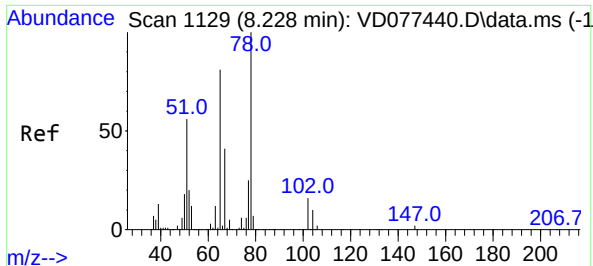
Ion Ratio Lower Upper

56 100

69 127.0 28.6 43.0#

84 91.3 84.8 127.2

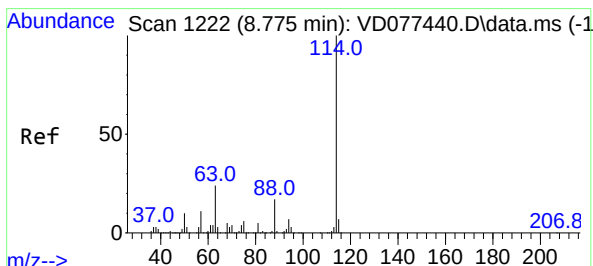
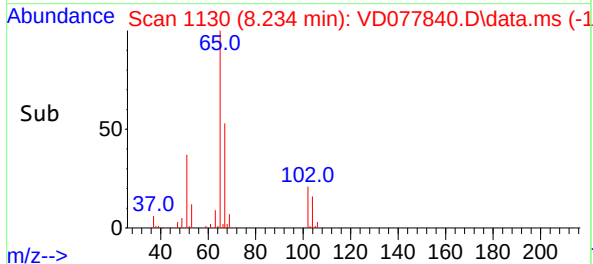
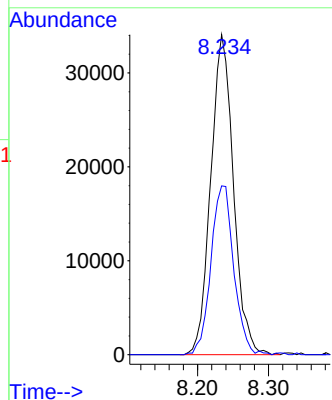
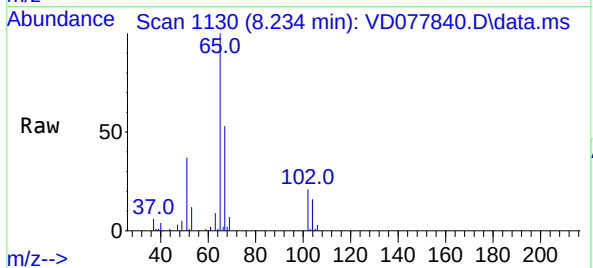




#33  
1,2-Dichloroethane-d4  
Concen: 46.853 ug/l  
RT: 8.234 min Scan# 1129  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

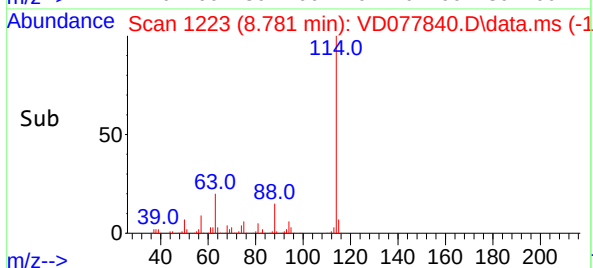
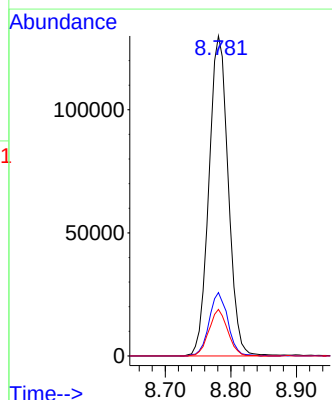
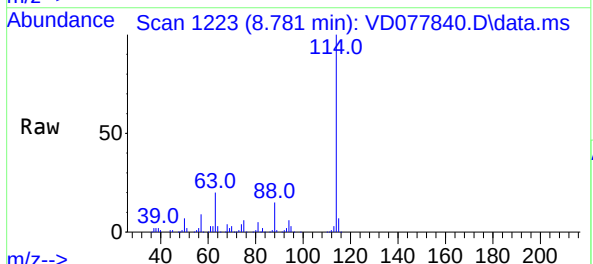
Instrument :  
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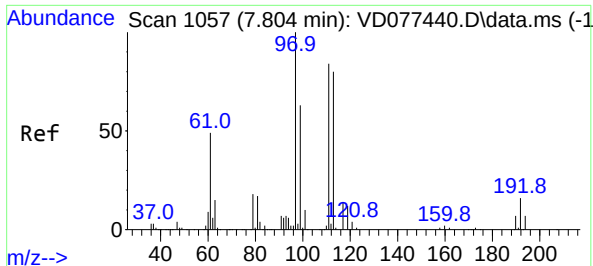
Tgt Ion: 65 Resp: 75556  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 115.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 1223  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Tgt Ion: 114 Resp: 265825  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 33.4  
88 14.6 0.0 26.2

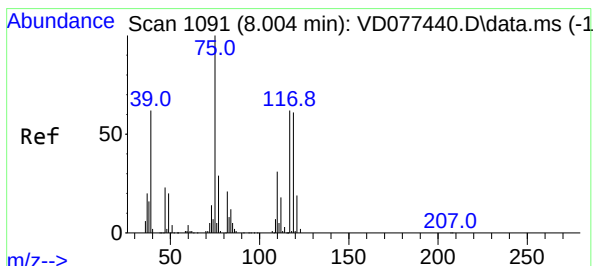
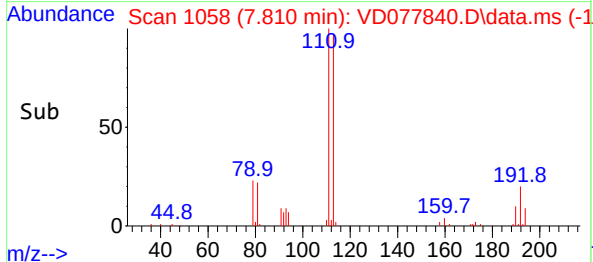
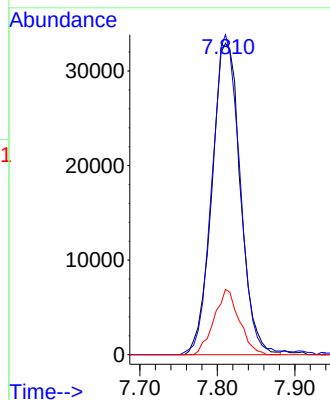
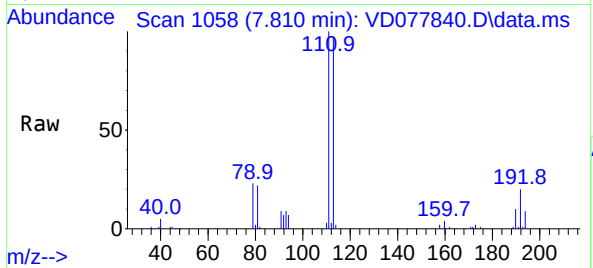




#35  
Dibromofluoromethane  
Concen: 45.146 ug/l  
RT: 7.810 min Scan# 1070  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

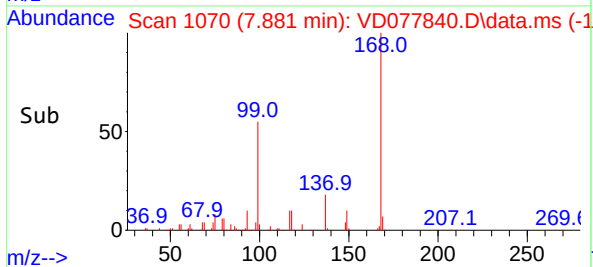
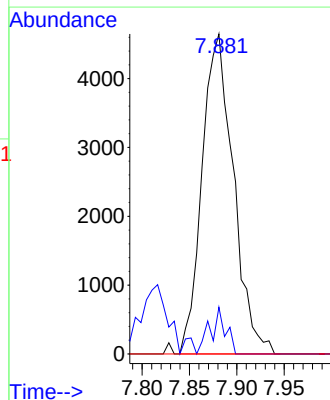
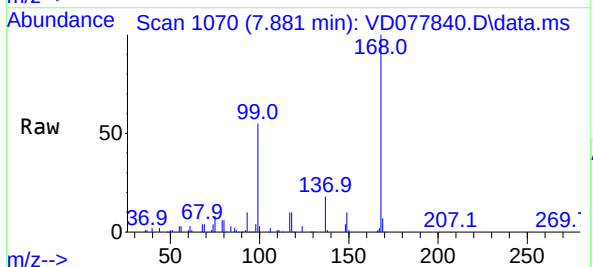
Instrument :  
MSVOA\_D  
ClientSampleId :

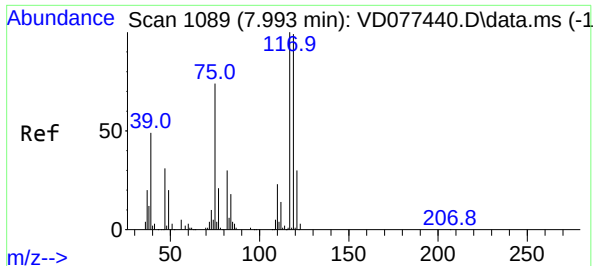
Tgt Ion: 113 Resp: 84063  
Ion Ratio Lower Upper  
113 100  
111 100.6 84.7 127.1  
192 18.5 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 3.597 ug/l  
RT: 7.881 min Scan# 1070  
Delta R.T. -0.123 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

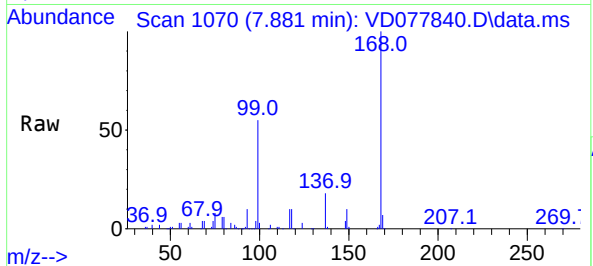
Tgt Ion: 75 Resp: 10713  
Ion Ratio Lower Upper  
75 100  
110 7.2 19.9 59.6#  
77 0.0 24.7 37.1#



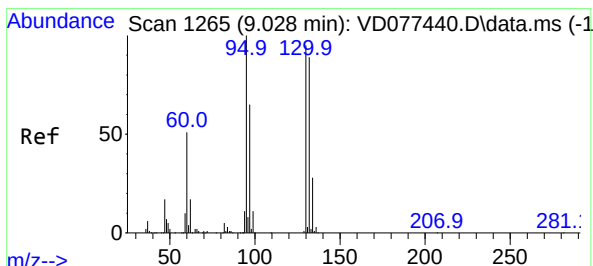
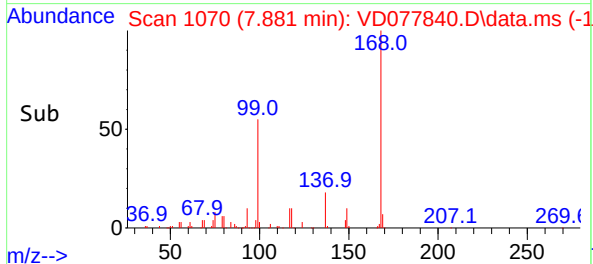
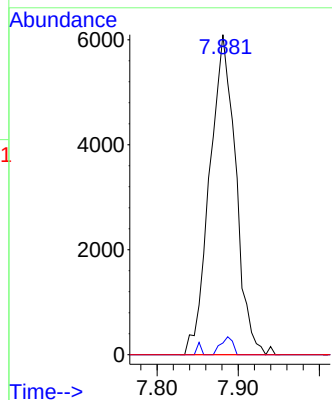


#38  
Carbon Tetrachloride  
Concen: 4.583 ug/l  
RT: 7.881 min Scan# 1089  
Delta R.T. -0.112 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Instrument :  
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ClientSampleId :

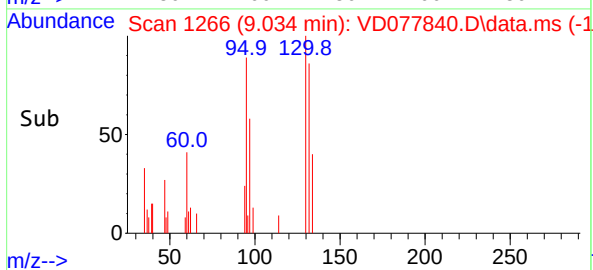
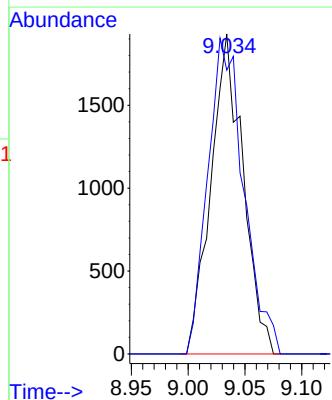
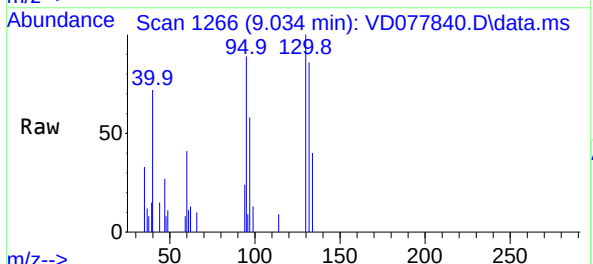


Tgt Ion:117 Resp: 13609  
Ion Ratio Lower Upper  
117 100  
119 3.6 78.0 117.0#  
121 0.0 24.2 36.2#

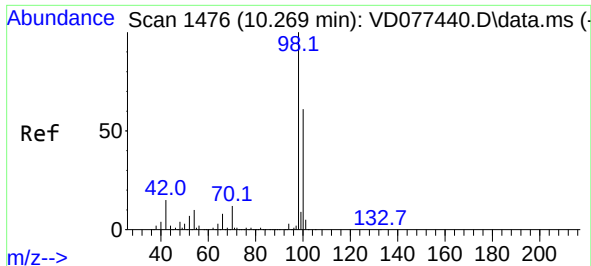


#44  
Trichloroethene  
Concen: 1.721 ug/l  
RT: 9.034 min Scan# 1266  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Tgt Ion:130 Resp: 3792  
Ion Ratio Lower Upper  
130 100  
95 88.7 0.0 179.2



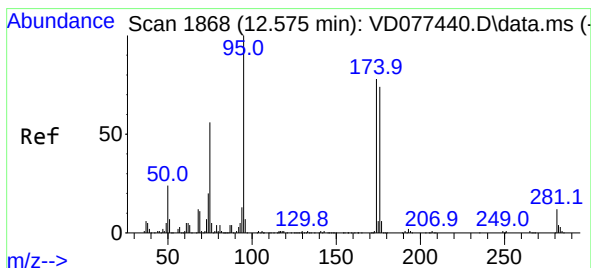
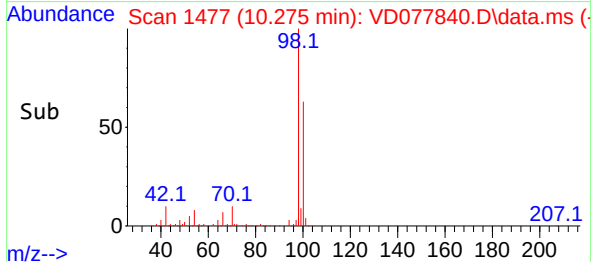
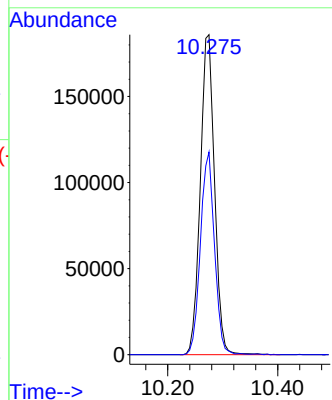
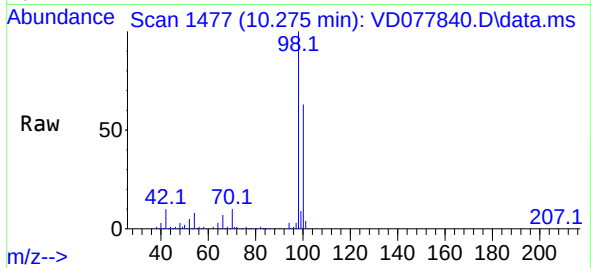




#50  
Toluene-d8  
Concen: 44.788 ug/l  
RT: 10.275 min Scan# 1476  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

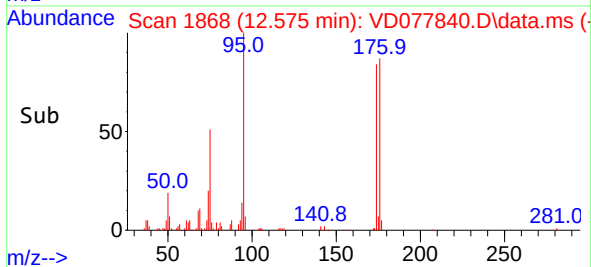
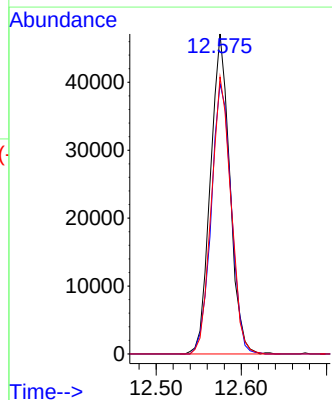
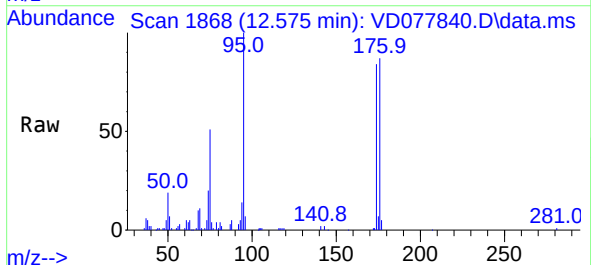
Instrument :  
MSVOA\_D  
ClientSampleId :

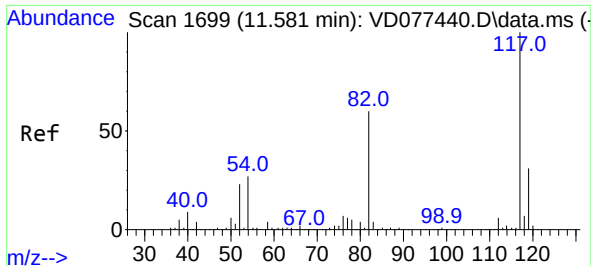
Tgt Ion: 98 Resp: 334008  
Ion Ratio Lower Upper  
98 100  
100 62.6 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 33.416 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Tgt Ion: 95 Resp: 74506  
Ion Ratio Lower Upper  
95 100  
174 86.9 0.0 201.8  
176 87.4 0.0 191.8

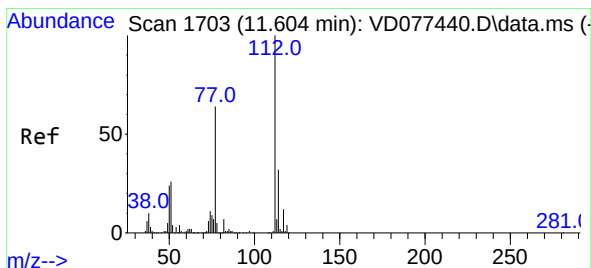
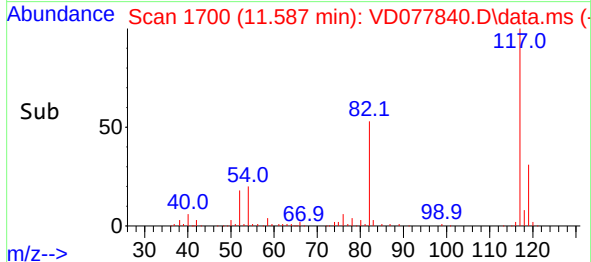
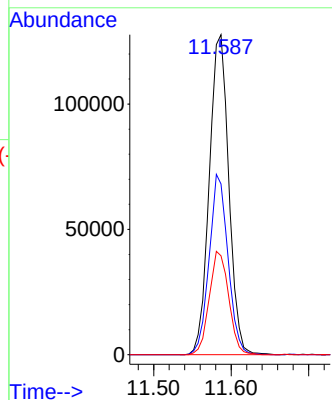
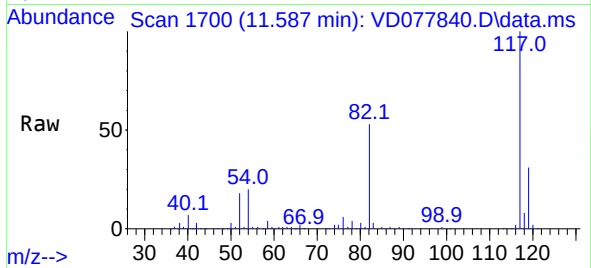




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.587 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

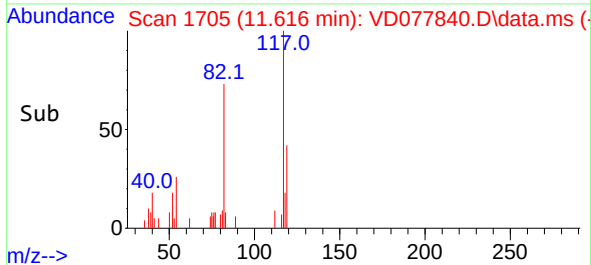
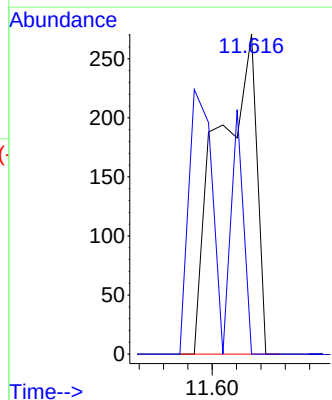
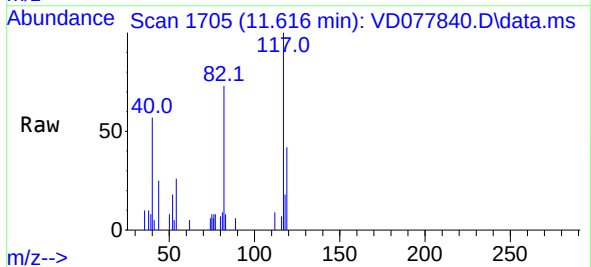
Instrument :  
MSVOA\_D  
ClientSampleId :

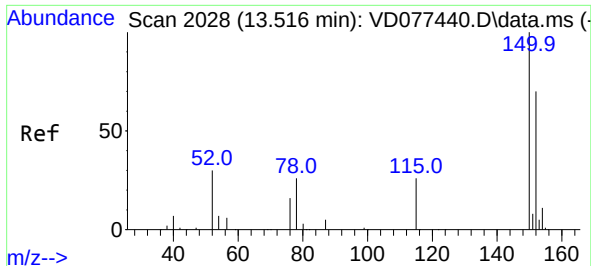
Tgt Ion:117 Resp: 222992  
Ion Ratio Lower Upper  
117 100  
82 53.3 38.3 57.5  
119 30.9 25.0 37.4



#65  
Chlorobenzene  
Concen: Below Cal  
RT: 11.616 min Scan# 1705  
Delta R.T. 0.012 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Tgt Ion:112 Resp: 295  
Ion Ratio Lower Upper  
112 100  
114 0.0 25.1 37.7#

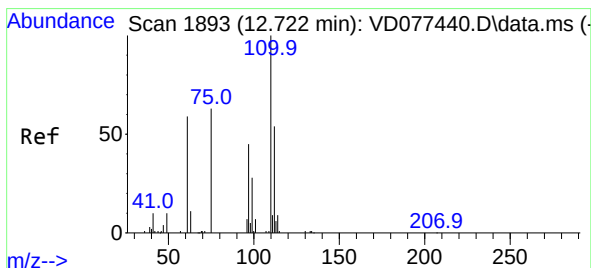
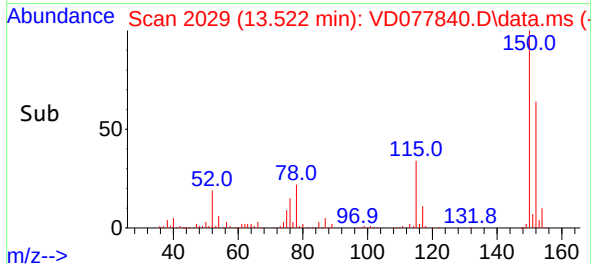
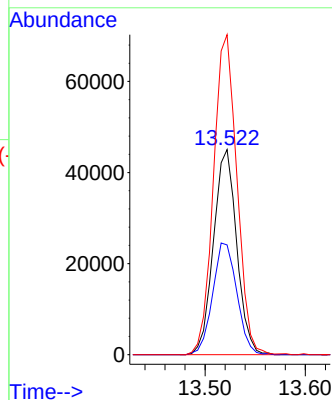
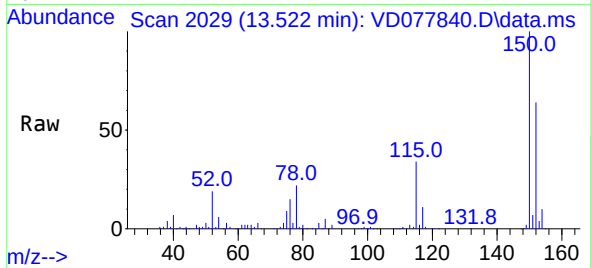




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

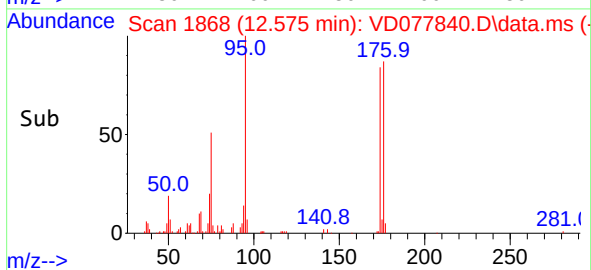
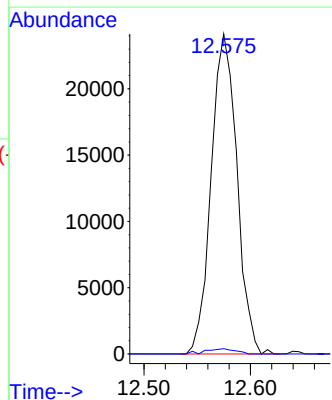
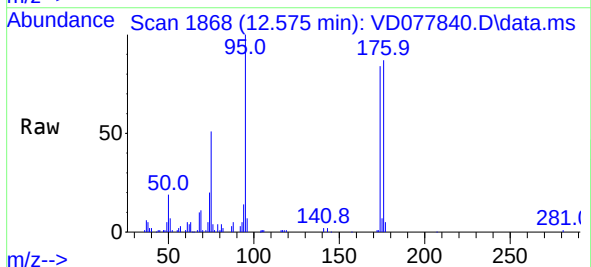
Instrument :  
MSVOA\_D  
ClientSampleId :

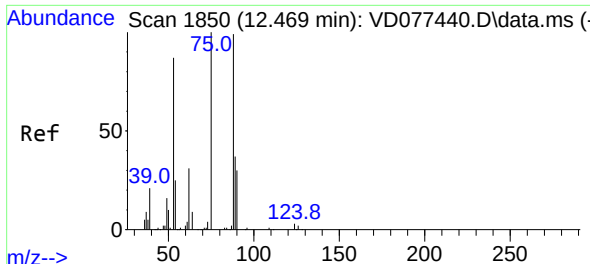
Tgt Ion:152 Resp: 72575  
Ion Ratio Lower Upper  
152 100  
115 56.8 27.1 81.3  
150 157.2 0.0 353.6



#76  
1,2,3-Trichloropropane  
Concen: 64.274 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.147 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

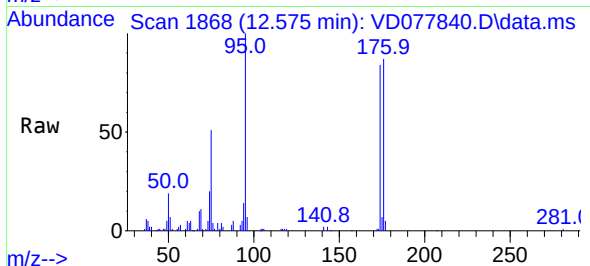
Tgt Ion: 75 Resp: 40513  
Ion Ratio Lower Upper  
75 100  
77 1.9 0.0 0.0#



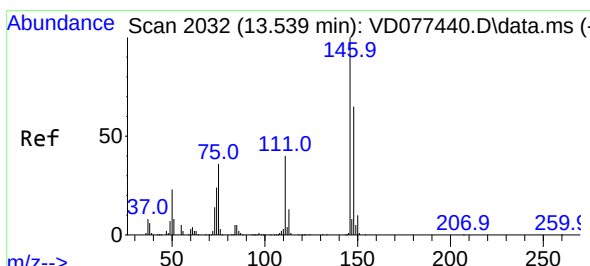
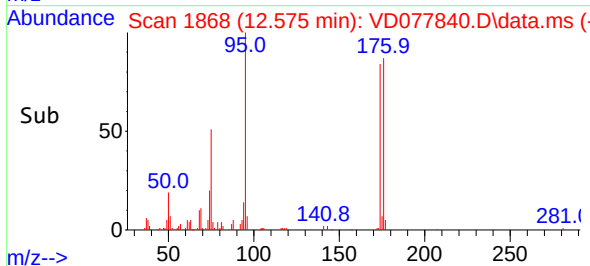
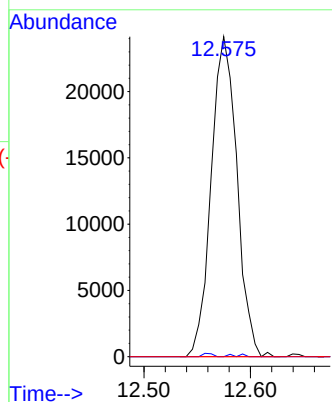


#81  
trans-1,4-Dichloro-2-butene  
Concen: 130.223 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 75 Resp: 40513  
Ion Ratio Lower Upper  
75 100  
53 0.2 63.0 94.4#  
89 0.0 37.9 56.9#



#88  
1,4-Dichlorobenzene  
Concen: Below Cal  
RT: 13.534 min Scan# 2031  
Delta R.T. -0.005 min  
Lab File: VD077840.D  
Acq: 12 Dec 2023 14:24

Tgt Ion: 146 Resp: 599  
Ion Ratio Lower Upper  
146 100  
111 223.4 17.4 52.3#  
148 115.9 31.7 95.1#

