

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020823\  
 Data File : VD075271.D  
 Acq On : 08 Feb 2023 14:57  
 Operator : KP/SY  
 Sample : 01463-17  
 Misc : 3.36G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TOT-VOC-GRAB-44

Quant Time: Feb 09 05:41:52 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 04:26:58 2023  
 Response via : Initial Calibration

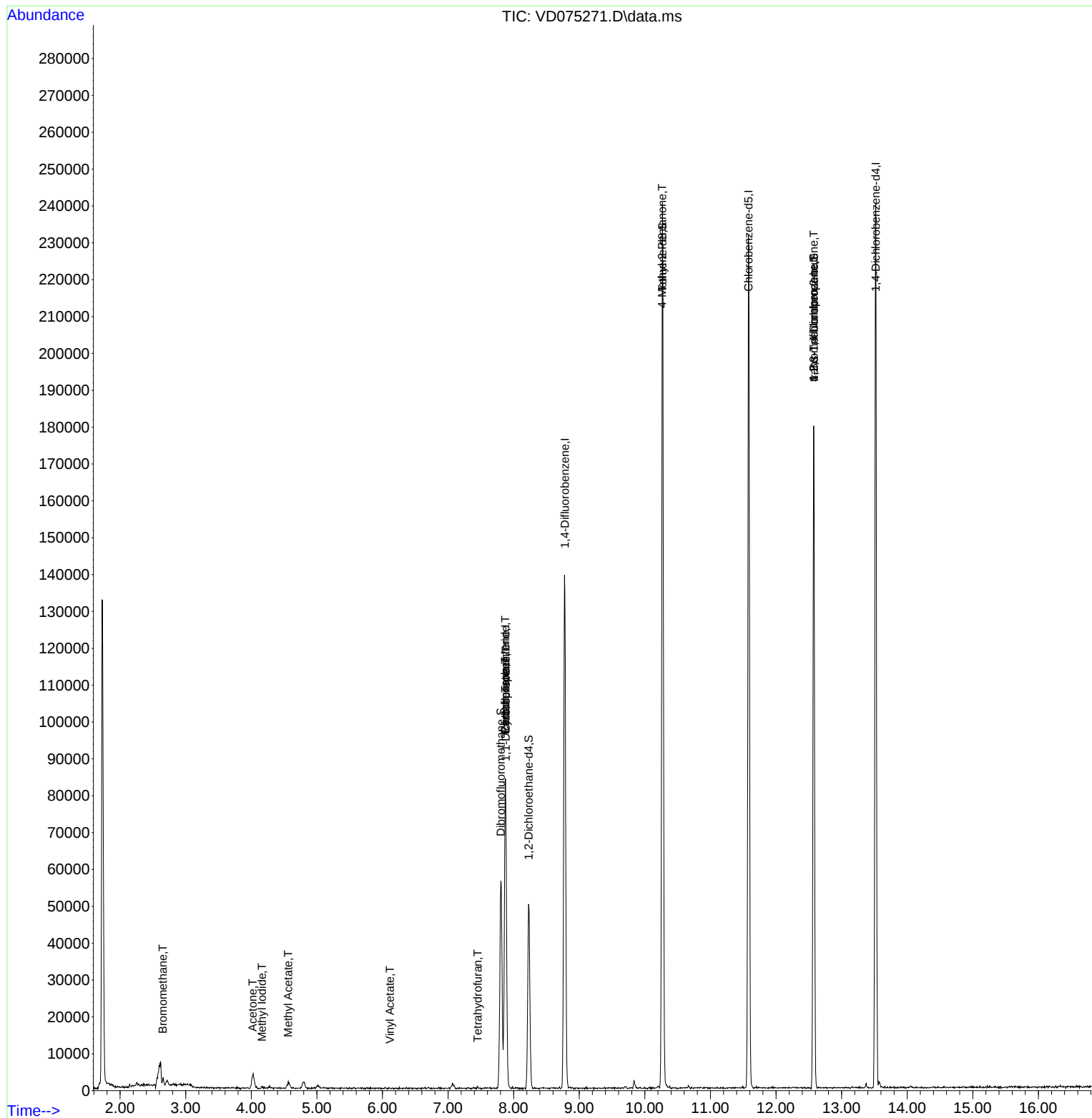
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 63922    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 121162   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 126149   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 59777    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.228  | 65    | 39833    | 53.143    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 106.280% |          |
| 35) Dibromofluoromethane      | 7.805  | 113   | 40202    | 47.320    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 94.640%  |          |
| 50) Toluene-d8                | 10.269 | 98    | 155798   | 48.355    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 96.720%  |          |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 54857    | 51.636    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 103.280% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.146  | 50    | 530      | Below Cal | #          | 81       |
| 5) Bromomethane               | 2.652  | 94    | 877      | 1.289     | ug/l       | 93       |
| 10) Methyl Iodide             | 4.164  | 142   | 365      | 2.947     | ug/l #     | 59       |
| 11) Tert butyl alcohol        | 5.034  | 59    | 69       | Below Cal | #          | 89       |
| 16) Acetone                   | 4.022  | 43    | 6780     | 34.209    | ug/l #     | 74       |
| 18) Methyl Acetate            | 4.564  | 43    | 3419     | 3.851     | ug/l #     | 84       |
| 20) Methylene Chloride        | 4.787  | 84    | 749      | Below Cal | #          | 50       |
| 23) Vinyl Acetate             | 6.116  | 43    | 64       | 15.765    | ug/l #     | 70       |
| 29) Tetrahydrofuran           | 7.452  | 42    | 513      | 3.879     | ug/l #     | 34       |
| 31) Cyclohexane               | 7.875  | 56    | 1571     | 1.180     | ug/l #     | 29       |
| 36) 1,1-Dichloropropene       | 7.881  | 75    | 5245     | 3.963     | ug/l #     | 44       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 6367     | 5.192     | ug/l #     | 14       |
| 51) 4-Methyl-2-Pentanone      | 10.263 | 43    | 787      | 1.411     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 29500    | 43.448    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 29500    | 137.217   | ug/l #     | 14       |
| -----                         |        |       |          |           |            |          |

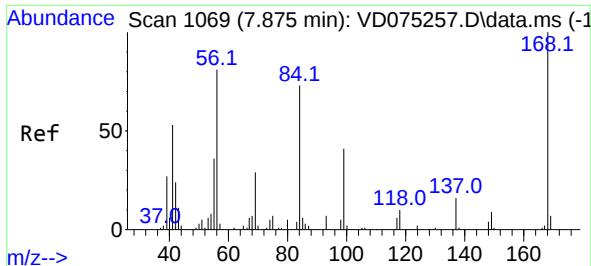
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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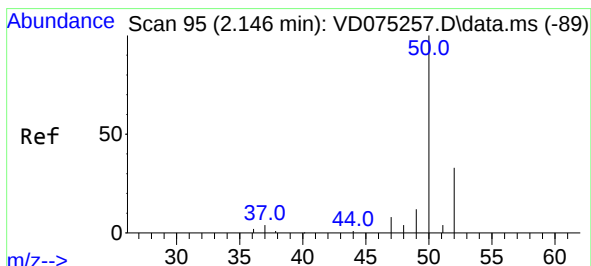
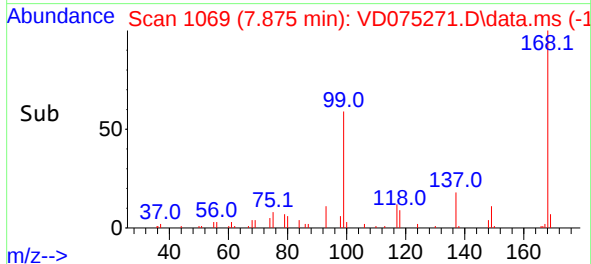
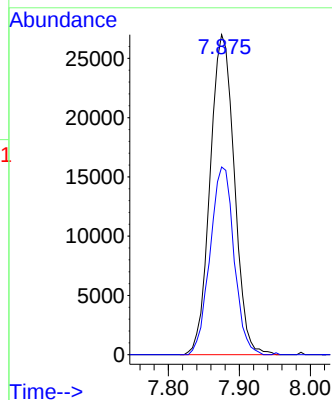
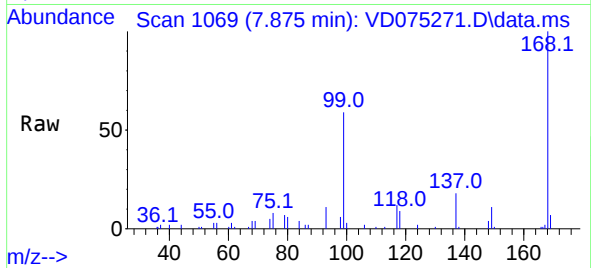




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

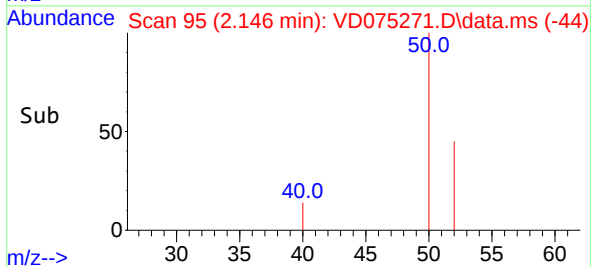
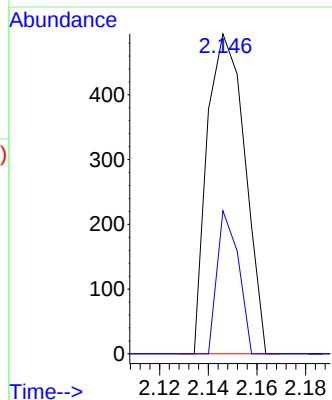
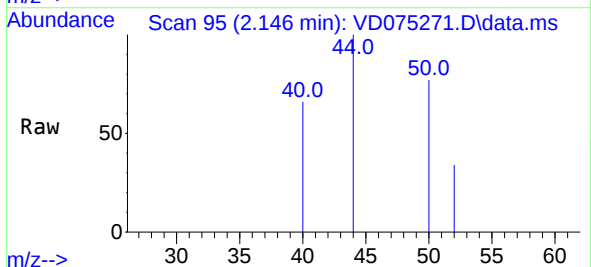
Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-44

Tgt Ion:168 Resp: 63922  
Ion Ratio Lower Upper  
168 100  
99 58.7 45.2 67.8

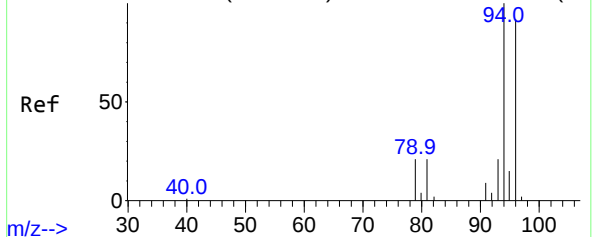


#3  
Chloromethane  
Concen: Below Cal  
RT: 2.146 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Tgt Ion: 50 Resp: 530  
Ion Ratio Lower Upper  
50 100  
52 44.7 27.0 40.6#



Abundance Scan 188 (2.693 min): VD075257.D\data.ms (-18



#5

Bromomethane

Concen: 1.289 ug/l

RT: 2.652 min Scan# 11

Delta R.T. -0.041 min

Lab File: VD075271.D

Acq: 08 Feb 2023 14:57

Instrument :

MSVOA\_D

ClientSampleId :

TOT-VOC-GRAB-44

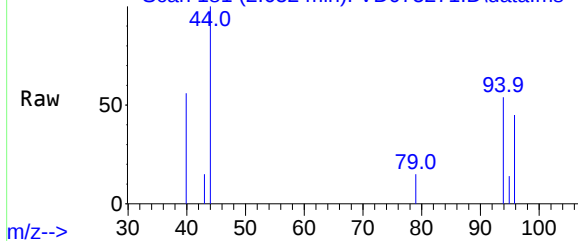
Tgt Ion: 94 Resp: 877

Ion Ratio Lower Upper

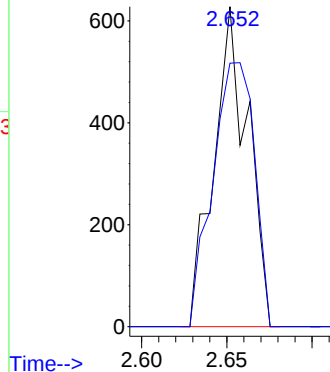
94 100

96 100.7 74.8 112.2

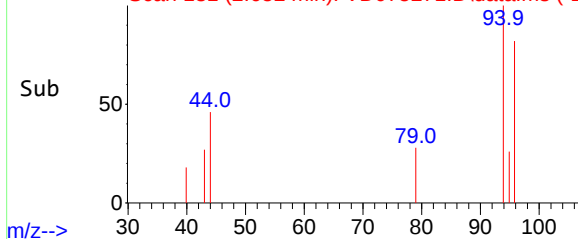
Abundance Scan 181 (2.652 min): VD075271.D\data.ms



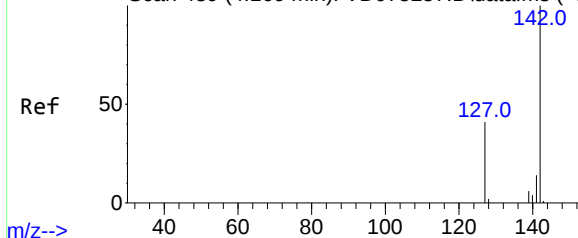
Abundance



Abundance Scan 181 (2.652 min): VD075271.D\data.ms (-13



Abundance Scan 439 (4.169 min): VD075257.D\data.ms (-42



#10

Methyl Iodide

Concen: 2.947 ug/l

RT: 4.164 min Scan# 438

Delta R.T. -0.005 min

Lab File: VD075271.D

Acq: 08 Feb 2023 14:57

Tgt Ion:142 Resp: 365

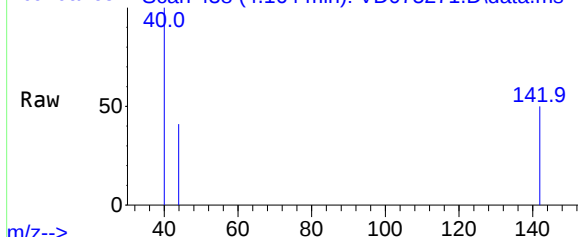
Ion Ratio Lower Upper

142 100

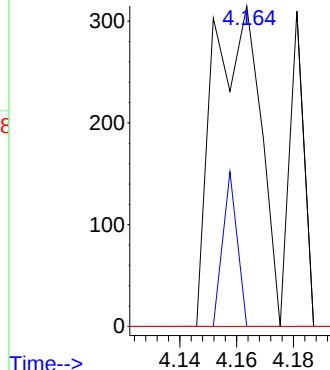
127 14.8 33.6 50.4#

141 0.0 11.1 16.7#

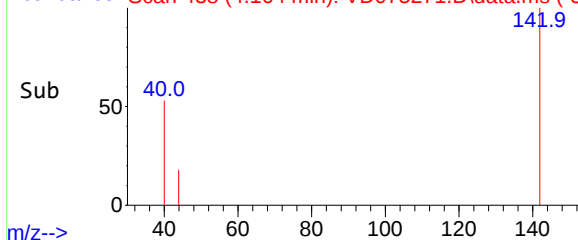
Abundance Scan 438 (4.164 min): VD075271.D\data.ms

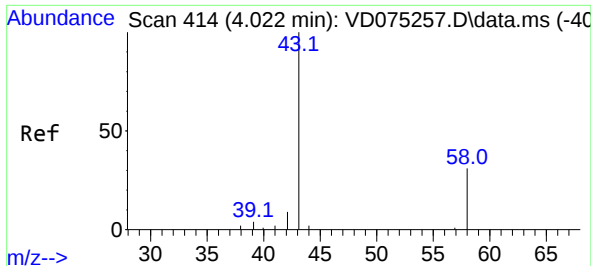


Abundance



Abundance Scan 438 (4.164 min): VD075271.D\data.ms (-38

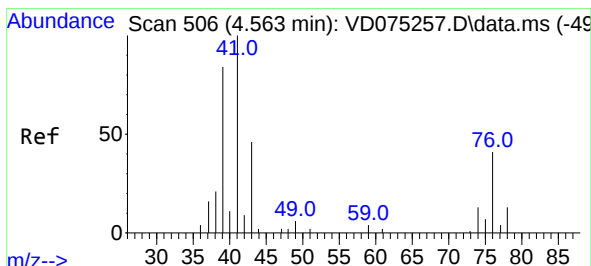
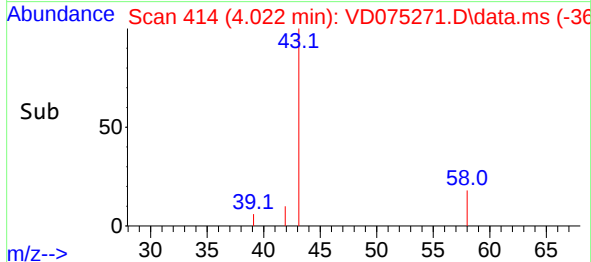
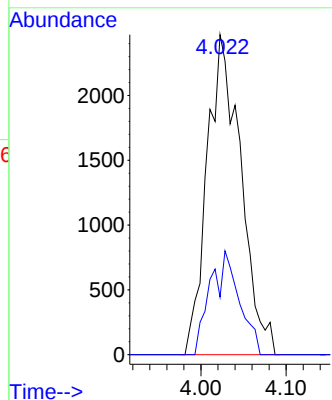
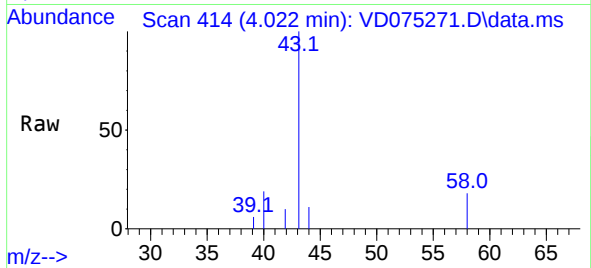




#16  
Acetone  
Concen: 34.209 ug/l  
RT: 4.022 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

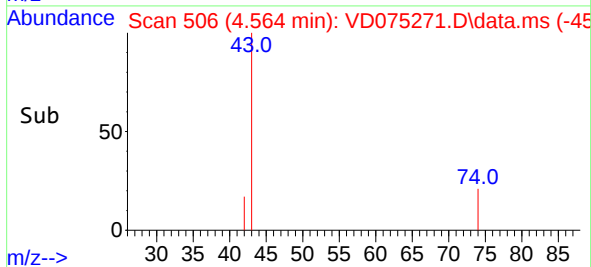
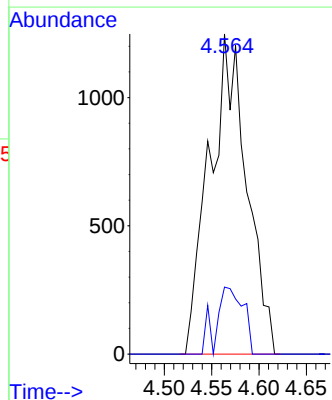
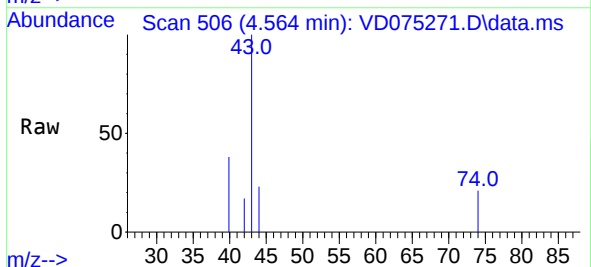
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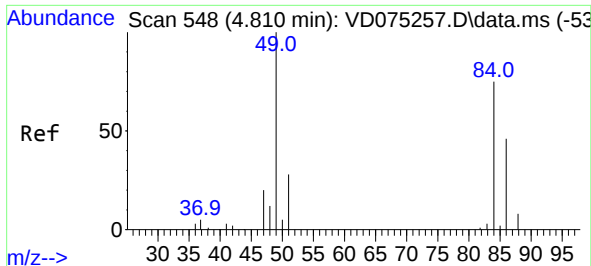
Tgt Ion: 43 Resp: 6780  
Ion Ratio Lower Upper  
43 100  
58 18.0 26.0 39.0#



#18  
Methyl Acetate  
Concen: 3.851 ug/l  
RT: 4.564 min Scan# 506  
Delta R.T. 0.001 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Tgt Ion: 43 Resp: 3419  
Ion Ratio Lower Upper  
43 100  
74 15.2 18.5 27.7#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.787 min Scan# 54

Delta R.T. -0.023 min

Lab File: VD075271.D

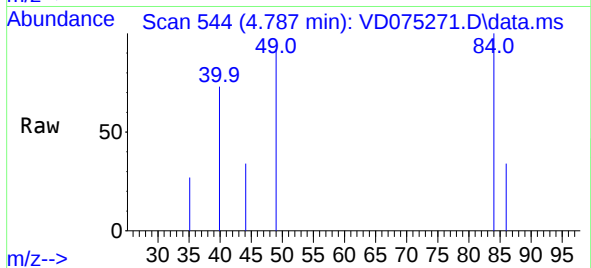
Acq: 08 Feb 2023 14:57

Instrument :

MSVOA\_D

ClientSampleId :

TOT-VOC-GRAB-44



Tgt Ion: 84 Resp: 749

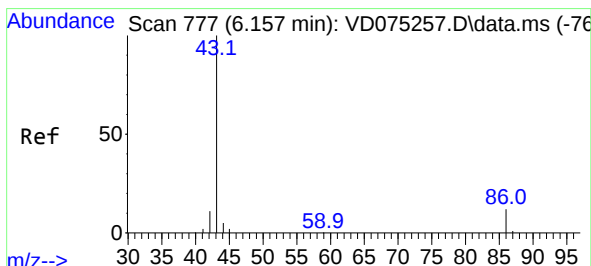
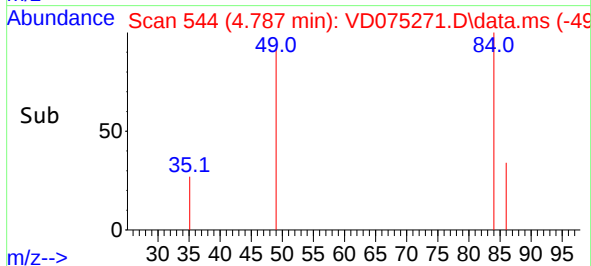
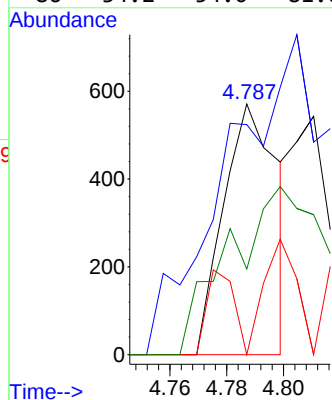
Ion Ratio Lower Upper

84 100

49 63.9 97.0 145.6#

51 0.0 30.9 46.3#

86 34.2 54.0 81.0#



#23

Vinyl Acetate

Concen: 15.765 ug/l

RT: 6.116 min Scan# 770

Delta R.T. -0.041 min

Lab File: VD075271.D

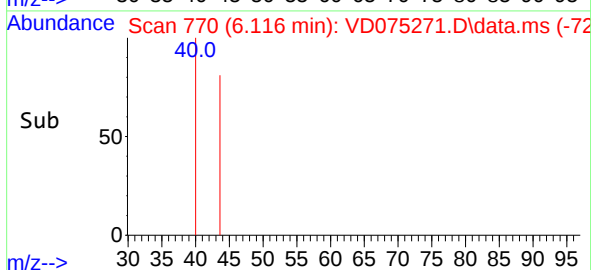
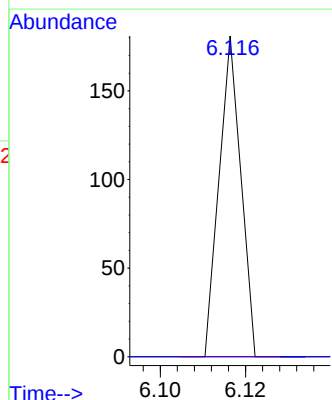
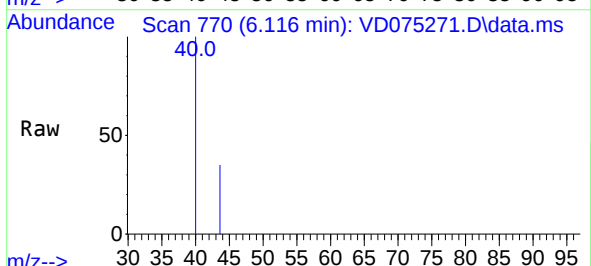
Acq: 08 Feb 2023 14:57

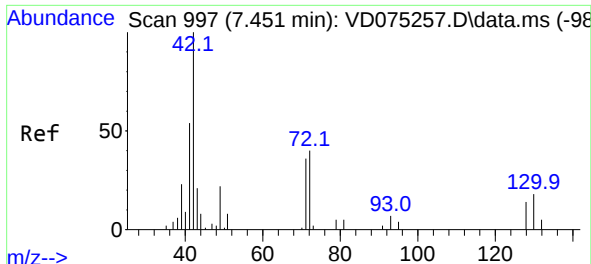
Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

86 0.0 9.3 13.9#

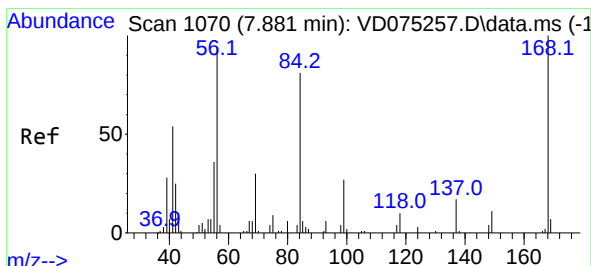
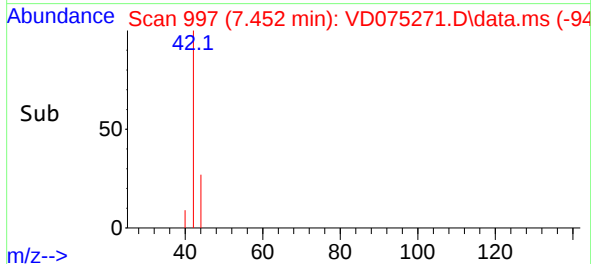
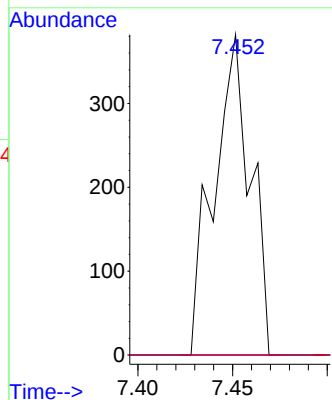
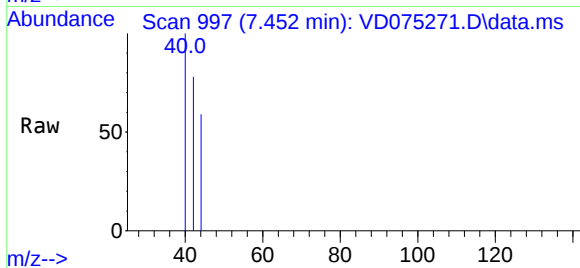




#29  
Tetrahydrofuran  
Concen: 3.879 ug/l  
RT: 7.452 min Scan# 997  
Delta R.T. 0.001 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

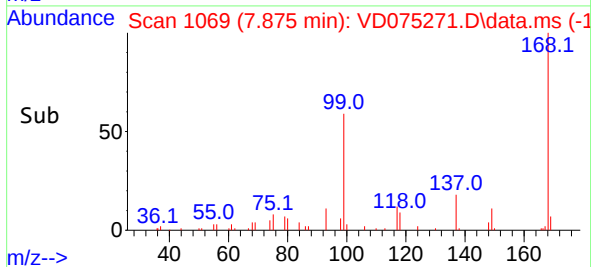
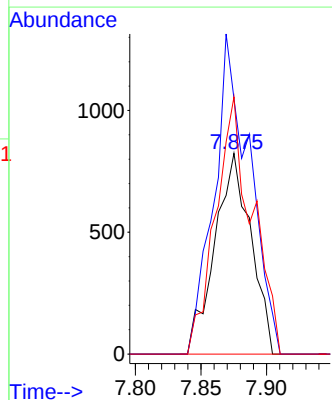
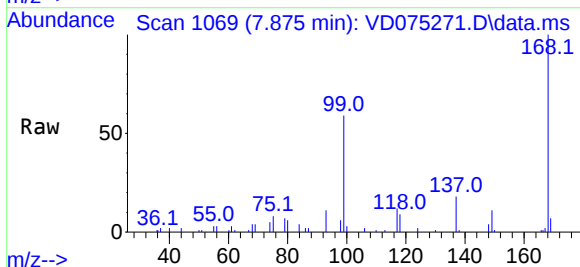
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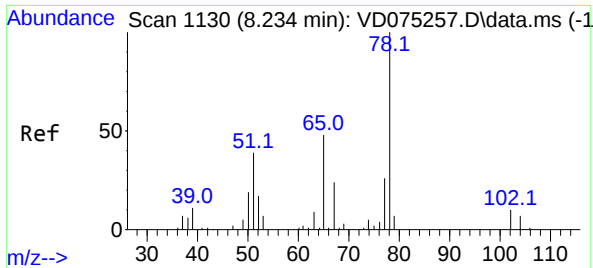
Tgt Ion: 42 Resp: 513  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.8 50.8#  
71 0.0 31.6 47.4#



#31  
Cyclohexane  
Concen: 1.180 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Tgt Ion: 56 Resp: 1571  
Ion Ratio Lower Upper  
56 100  
69 127.3 26.6 40.0#  
84 128.0 74.1 111.1#

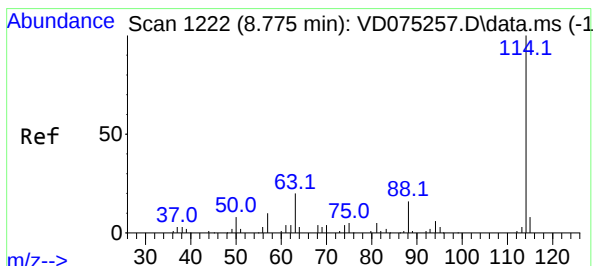
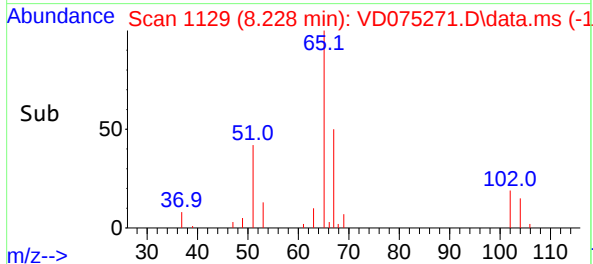
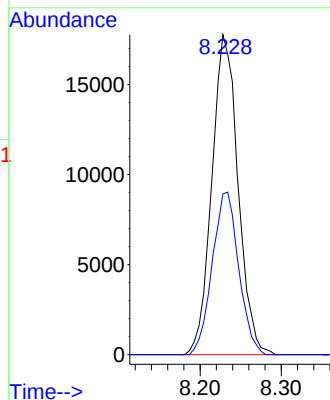
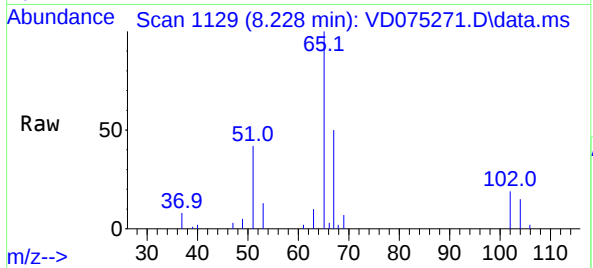




#33  
1,2-Dichloroethane-d4  
Concen: 53.143 ug/l  
RT: 8.228 min Scan# 1130  
Delta R.T. -0.006 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

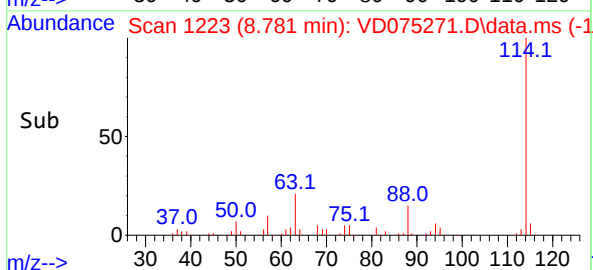
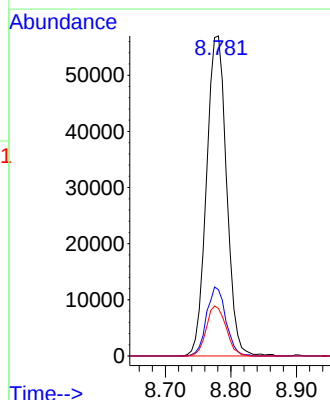
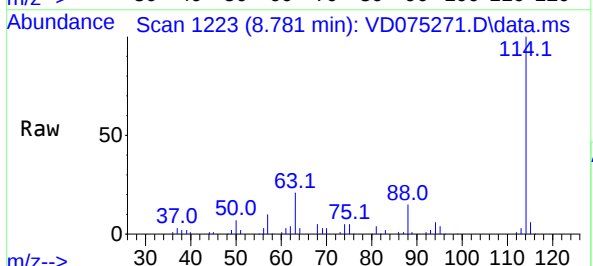
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TOT-VOC-GRAB-44

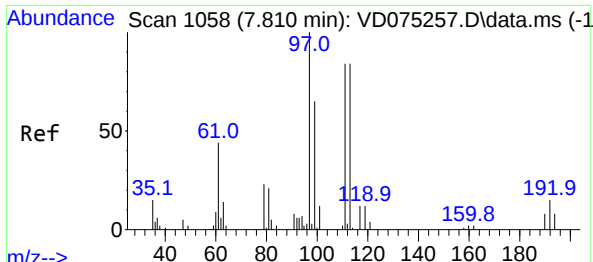
Tgt Ion: 65 Resp: 39833  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 105.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 1223  
Delta R.T. 0.006 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Tgt Ion: 114 Resp: 121162  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 40.2  
88 14.9 0.0 32.2

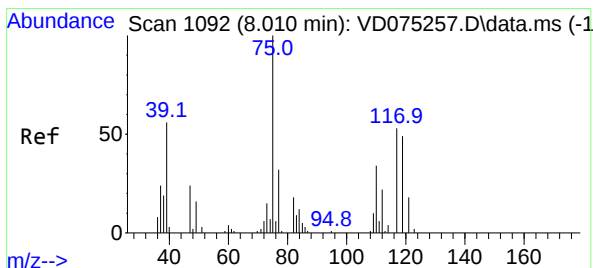
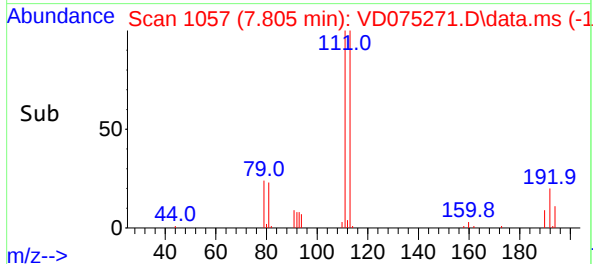
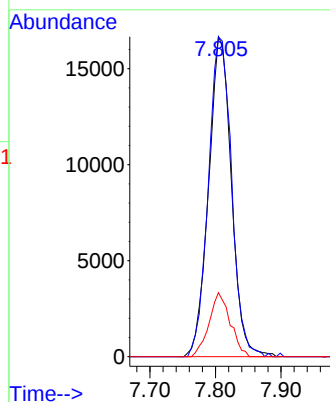
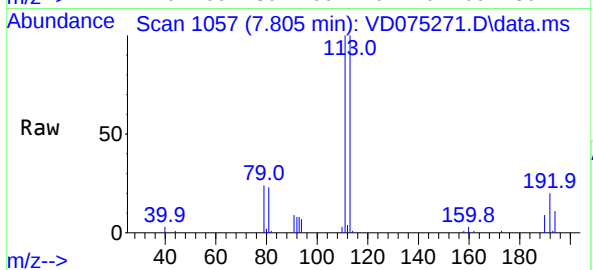




#35  
Dibromofluoromethane  
Concen: 47.320 ug/l  
RT: 7.805 min Scan# 1070  
Delta R.T. -0.005 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

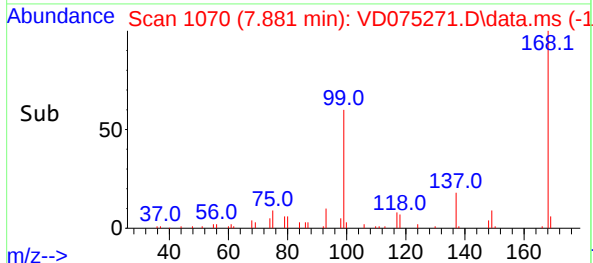
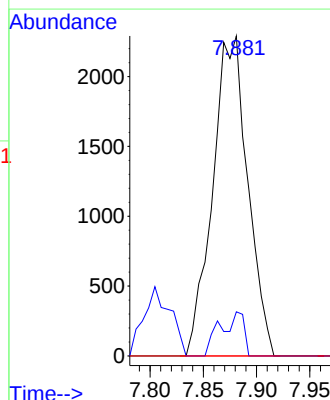
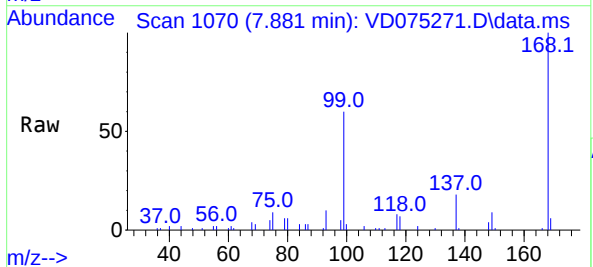
Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-44

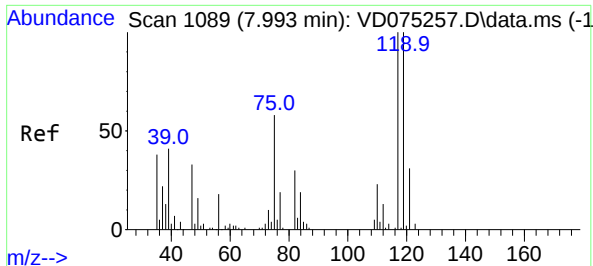
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 40202       |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 101.8 | 80.1 120.1  |
| 192         | 18.6  | 15.4 23.0   |



#36  
1,1-Dichloropropene  
Concen: 3.963 ug/l  
RT: 7.881 min Scan# 1070  
Delta R.T. -0.129 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

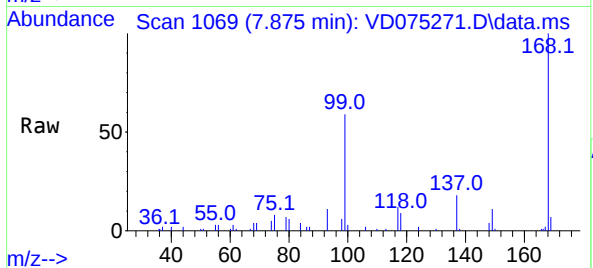
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 5245        |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 110         | 4.1   | 18.1 54.4#  |
| 77          | 0.0   | 25.1 37.7#  |



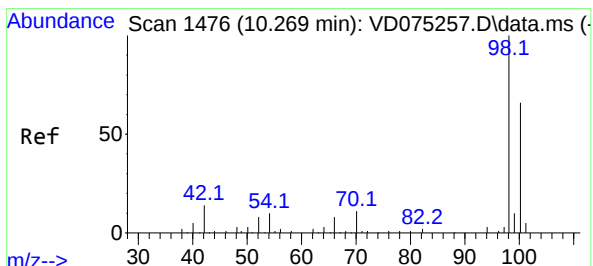
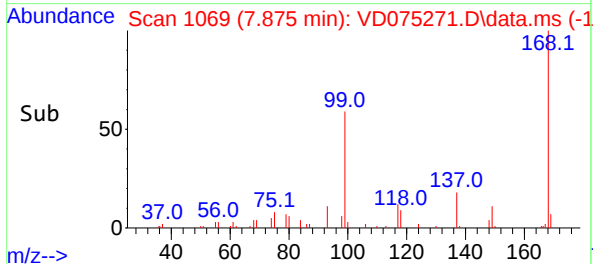
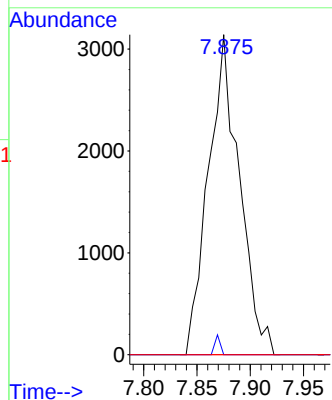


#38  
Carbon Tetrachloride  
Concen: 5.192 ug/l  
RT: 7.875 min Scan# 1089  
Delta R.T. -0.118 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-44

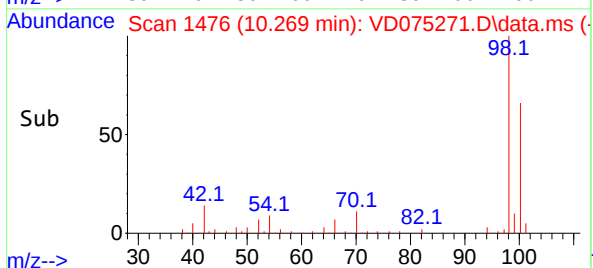
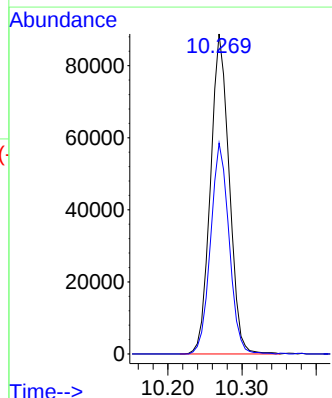
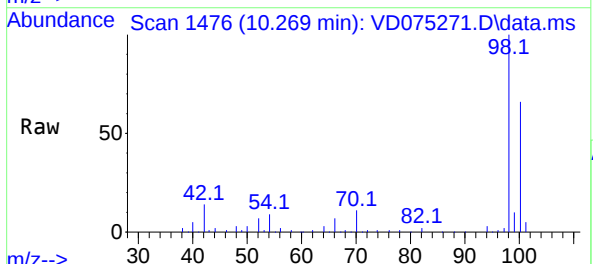


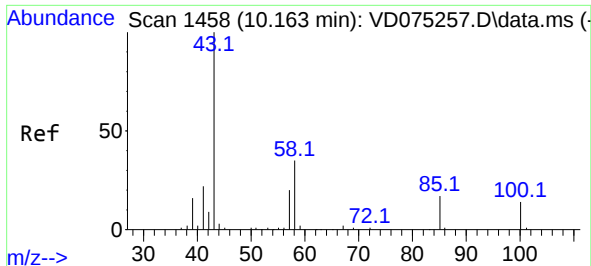
Tgt Ion:117 Resp: 6367  
Ion Ratio Lower Upper  
117 100  
119 0.0 73.6 110.4#  
121 0.0 25.4 38.0#



#50  
Toluene-d8  
Concen: 48.355 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Tgt Ion: 98 Resp: 155798  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 1.411 ug/l

RT: 10.263 min Scan# 1458

Delta R.T. 0.100 min

Lab File: VD075271.D

Acq: 08 Feb 2023 14:57

Instrument :

MSVOA\_D

ClientSampleId :

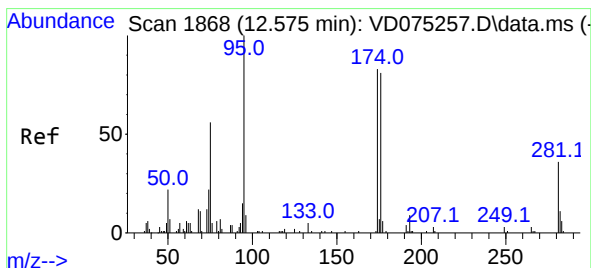
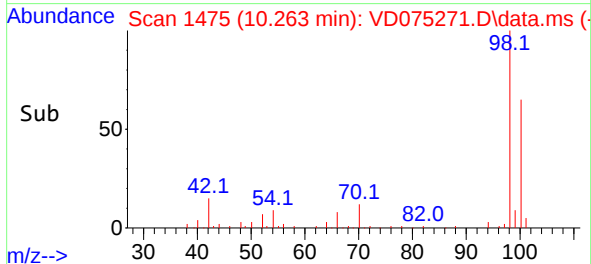
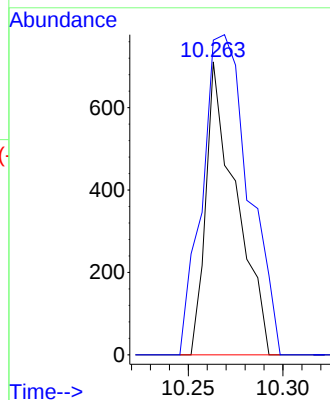
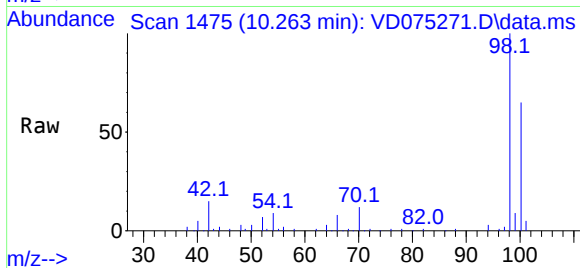
TOT-VOC-GRAB-44

Tgt Ion: 43 Resp: 787

Ion Ratio Lower Upper

43 100

58 168.5 31.4 47.0#



#62

4-Bromofluorobenzene

Concen: 51.636 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VD075271.D

Acq: 08 Feb 2023 14:57

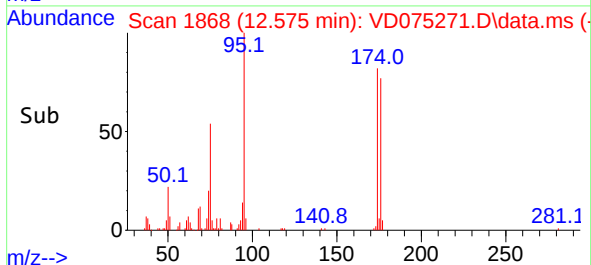
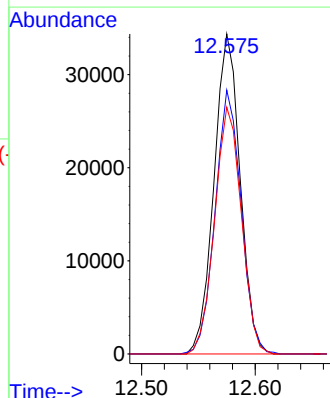
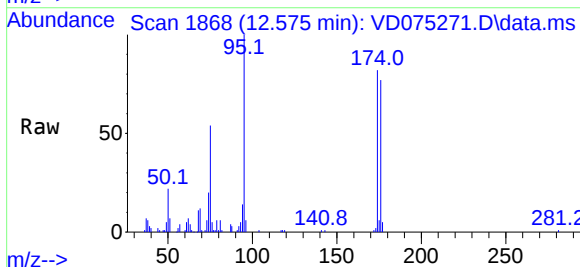
Tgt Ion: 95 Resp: 54857

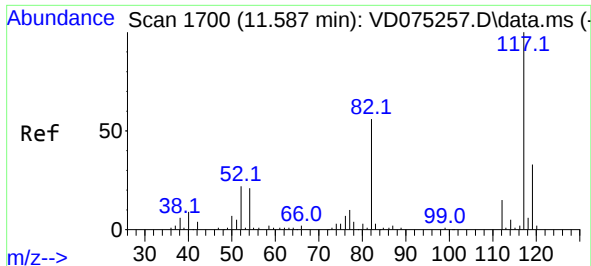
Ion Ratio Lower Upper

95 100

174 82.2 0.0 161.2

176 78.9 0.0 160.2

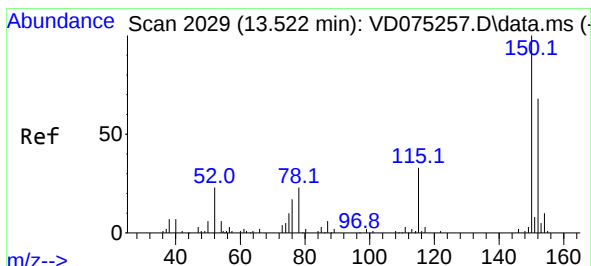
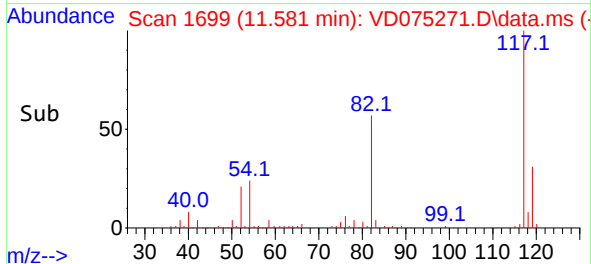
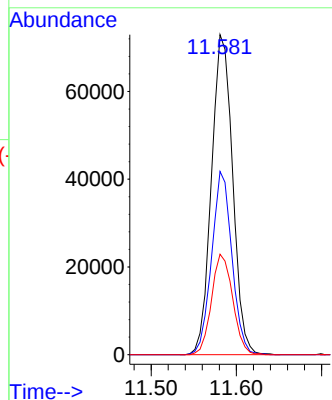
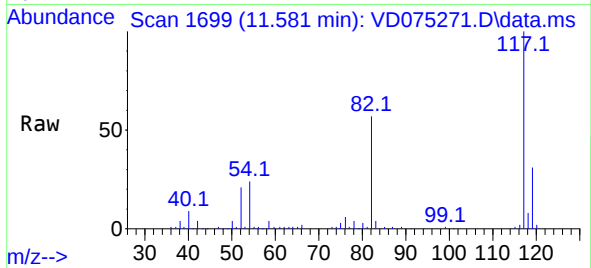




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

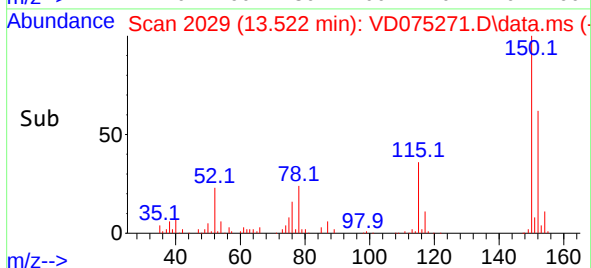
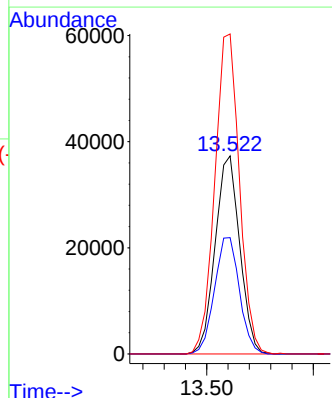
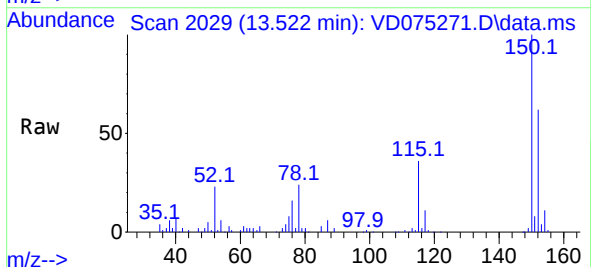
Instrument :  
MSVOA\_D  
ClientSampleId :  
TOT-VOC-GRAB-44

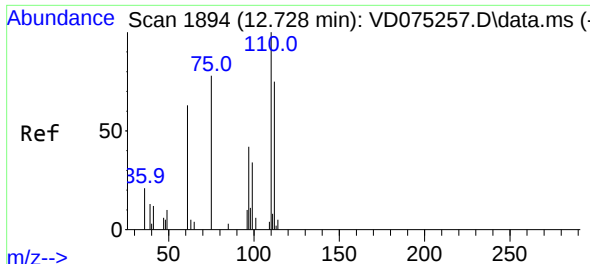
Tgt Ion:117 Resp: 126149  
Ion Ratio Lower Upper  
117 100  
82 57.3 39.6 59.4  
119 31.4 24.6 37.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2029  
Delta R.T. -0.000 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Tgt Ion:152 Resp: 59777  
Ion Ratio Lower Upper  
152 100  
115 59.7 28.8 86.4  
150 161.6 0.0 348.6

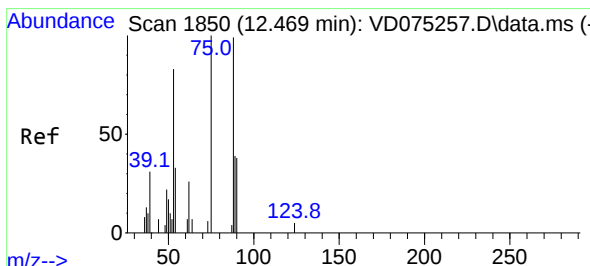
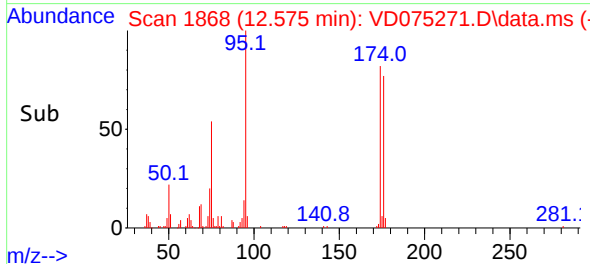
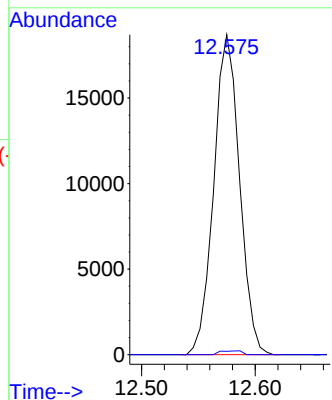
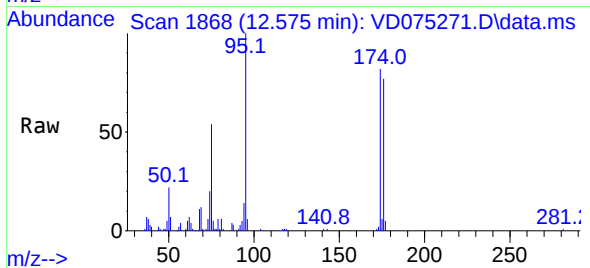




#76  
1,2,3-Trichloropropane  
Concen: 43.448 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Instrument : MSVOA\_D  
ClientSampleId : TOT-VOC-GRAB-44

Tgt Ion: 75 Resp: 29500  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 137.217 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD075271.D  
Acq: 08 Feb 2023 14:57

Tgt Ion: 75 Resp: 29500  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.5 105.7#  
89 0.0 34.6 52.0#

