

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD070921\  
 Data File : VD069655.D  
 Acq On : 09 Jul 2021 19:23  
 Operator : VA/SY  
 Sample : M2988-06  
 Misc : 6.11G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 GRAB-1

Quant Time: Jul 10 02:57:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

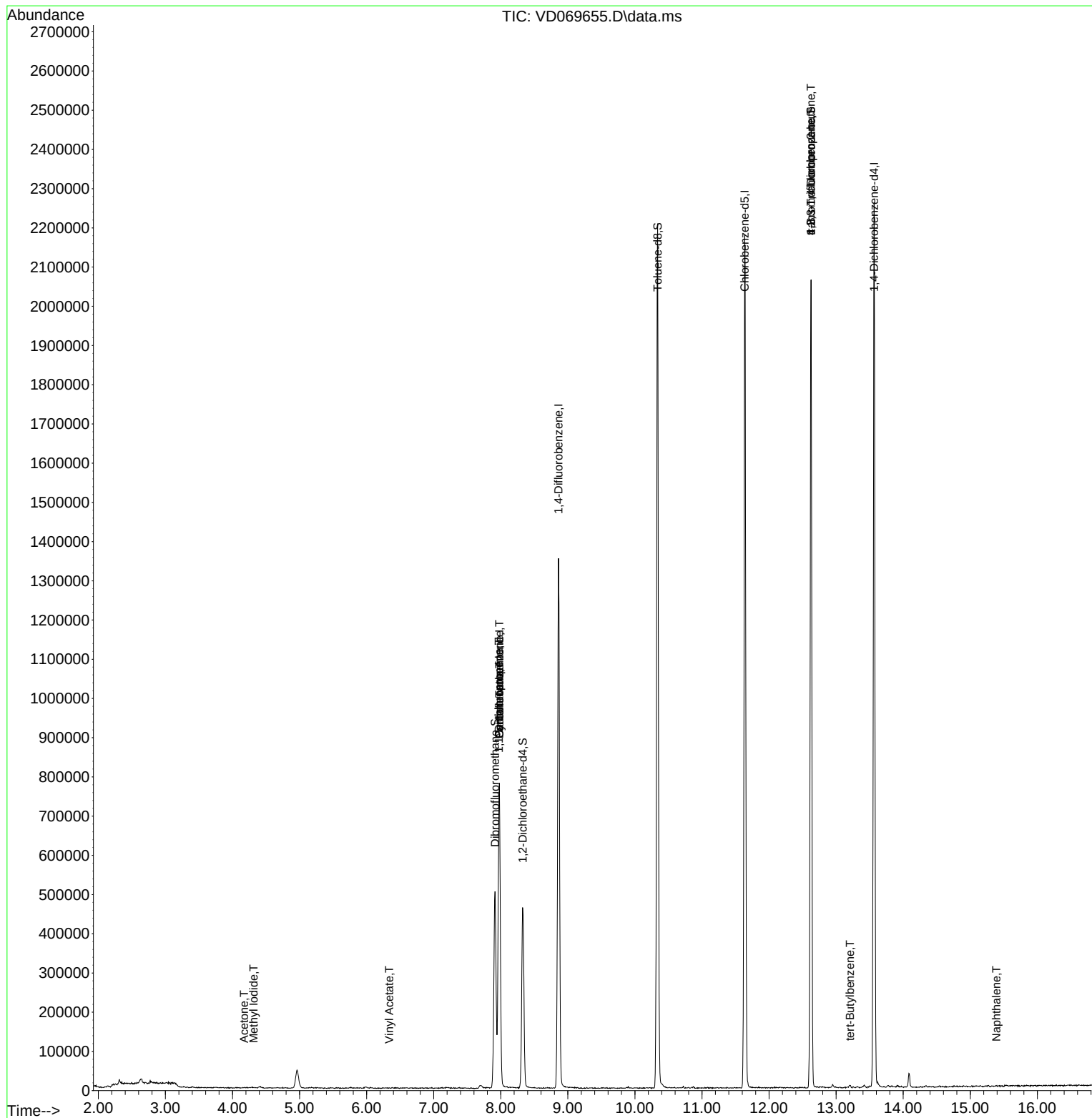
| Compound                      | R.T.           | QIon | Response            | Conc           | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|----------------|--------|----------|
| -----                         |                |      |                     |                |        |          |
| Internal Standards            |                |      |                     |                |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 553722              | 50.000         | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 1118259             | 50.000         | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 1250917             | 50.000         | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 575592              | 50.000         | ug/l   | 0.00     |
|                               |                |      |                     |                |        |          |
| System Monitoring Compounds   |                |      |                     |                |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 373997              | 54.186         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 108.380% |                |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 362691              | 47.980         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 95.960%  |                |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 1496190             | 52.768         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 105.540% |                |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 604696              | 64.871         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 129.740% |                |        |          |
|                               |                |      |                     |                |        |          |
| Target Compounds              |                |      |                     |                | Qvalue |          |
| 5) Bromomethane               | 2.773          | 94   | 3962                | Below Cal      |        | 89       |
| 10) Methyl Iodide             | 4.314          | 142  | 2513                | 4.339 ug/l #   |        | 47       |
| 11) Tert butyl alcohol        | 5.220          | 59   | 535                 | Below Cal #    |        | 83       |
| 16) Acetone                   | 4.173          | 43   | 1492                | 1.284 ug/l #   |        | 73       |
| 18) Methyl Acetate            | 4.720          | 43   | 139                 | Below Cal #    |        | 49       |
| 20) Methylene Chloride        | 4.956          | 84   | 35888               | Below Cal #    |        | 85       |
| 23) Vinyl Acetate             | 6.338          | 43   | 145                 | 19.024 ug/l #  |        | 70       |
| 31) Cyclohexane               | 7.979          | 56   | 12902               | 1.388 ug/l #   |        | 1        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 50046               | 4.560 ug/l #   |        | 49       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 58990               | 5.431 ug/l #   |        | 18       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 308286              | 54.562 ug/l #  |        | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 308286              | 136.234 ug/l # |        | 13       |
| 83) tert-Butylbenzene         | 13.208         | 119  | 567                 | 2.010 ug/l #   |        | 82       |
| 95) Naphthalene               | 15.390         | 128  | 347                 | 3.372 ug/l #   |        | 72       |
| -----                         |                |      |                     |                |        |          |

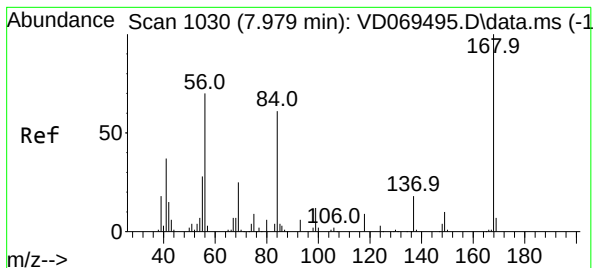
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 10 02:57:07 2021  
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Quant Title : SW846 8260  
QLast Update : Tue Jun 22 04:33:24 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VD069655.D

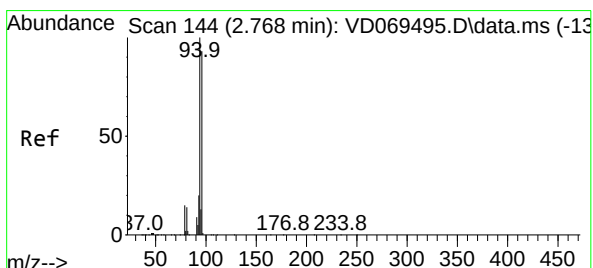
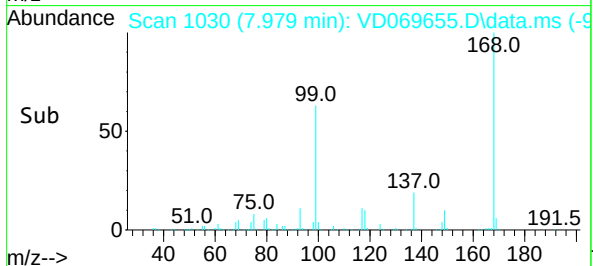
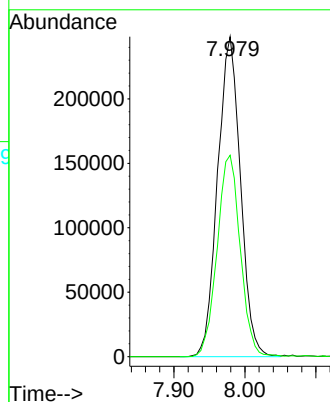
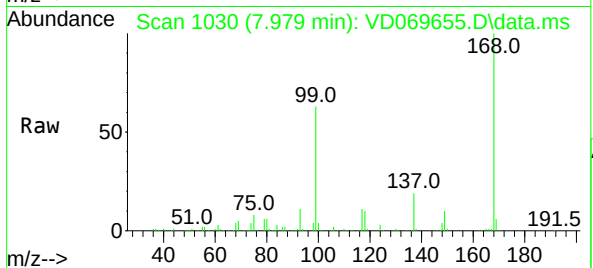
Acq: 09 Jul 2021 19:23

Tgt Ion:168 Resp: 553722

Ion Ratio Lower Upper

168 100

99 63.0 49.3 73.9



#5

Bromomethane

Concen: Below Cal

RT: 2.773 min Scan# 145

Delta R.T. 0.005 min

Lab File: VD069655.D

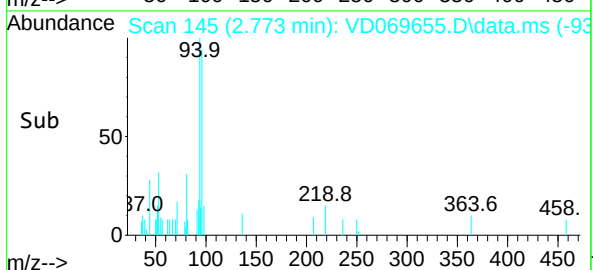
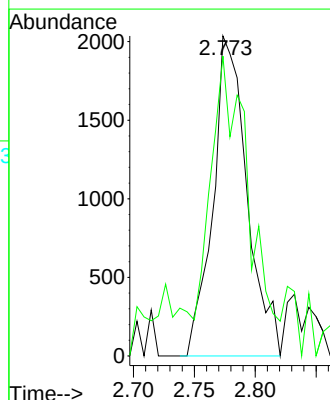
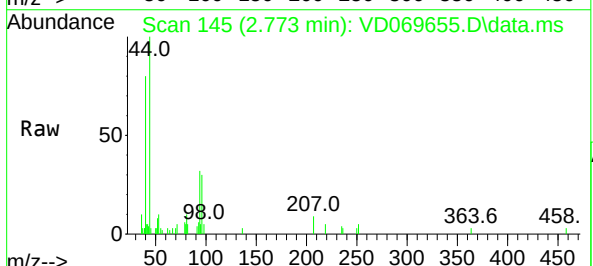
Acq: 09 Jul 2021 19:23

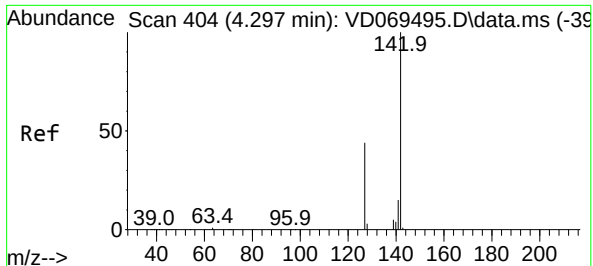
Tgt Ion: 94 Resp: 3962

Ion Ratio Lower Upper

94 100

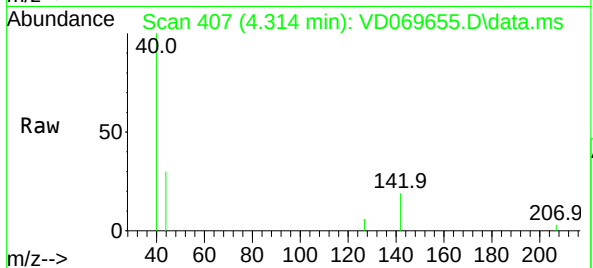
96 82.9 74.6 111.8



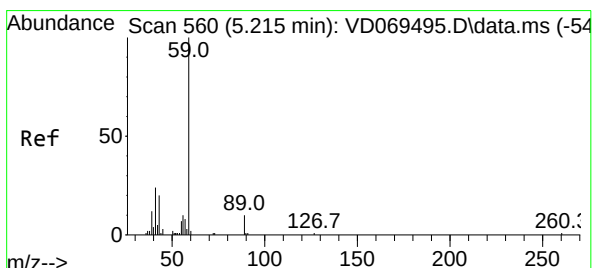
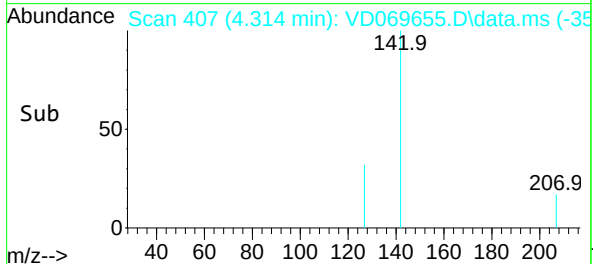
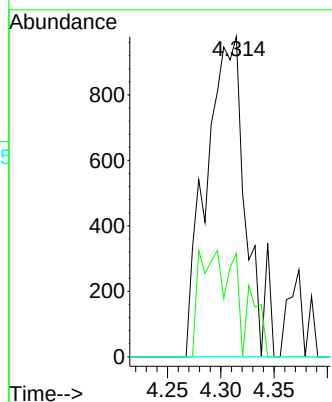


#10  
Methyl Iodide  
Concen: 4.339 ug/l  
RT: 4.314 min Scan# 407  
Delta R.T. 0.018 min  
Lab File: VD069655.D  
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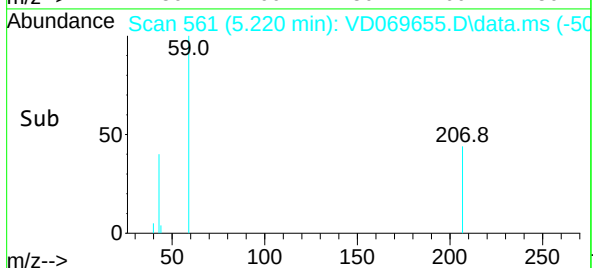
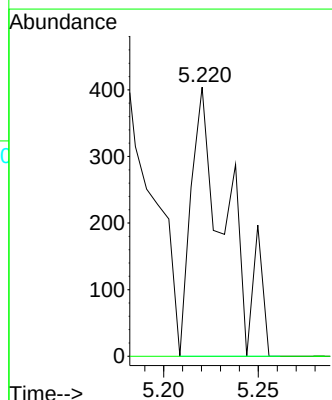
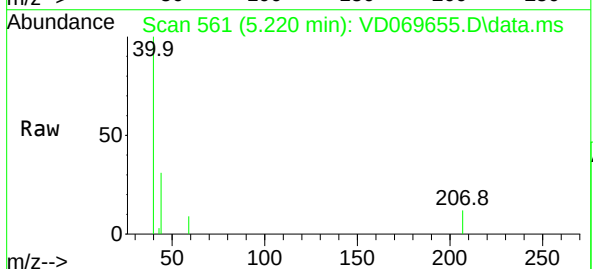


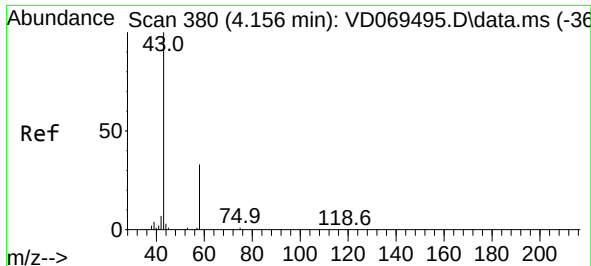
Tgt Ion:142 Resp: 2513  
Ion Ratio Lower Upper  
142 100  
127 7.4 36.5 54.7#  
141 0.0 12.0 18.0#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.220 min Scan# 561  
Delta R.T. 0.005 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion: 59 Resp: 535  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.6 7.0#

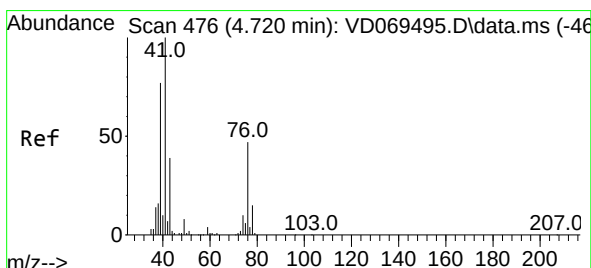
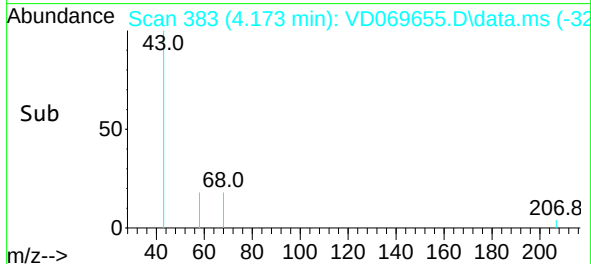
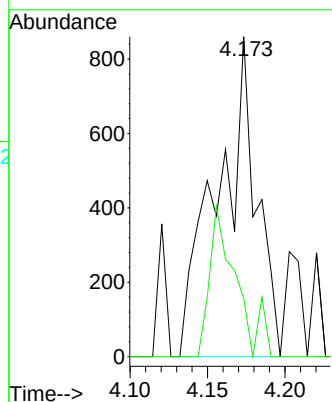
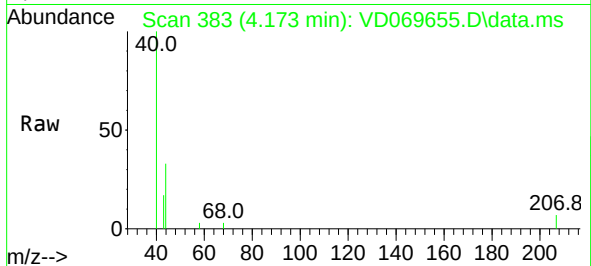




#16  
Acetone  
Concen: 1.284 ug/l  
RT: 4.173 min Scan# 383  
Delta R.T. 0.018 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

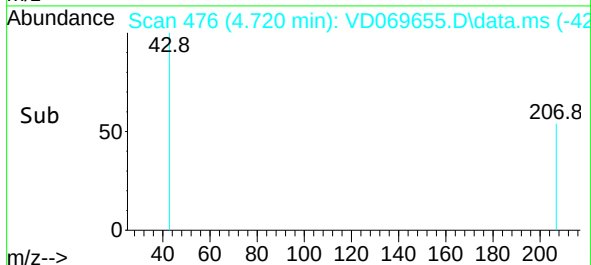
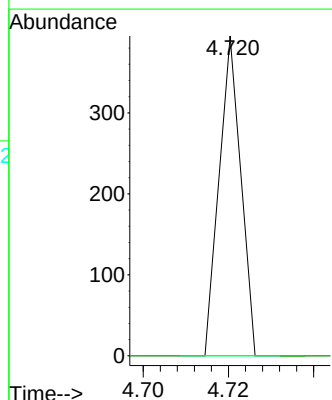
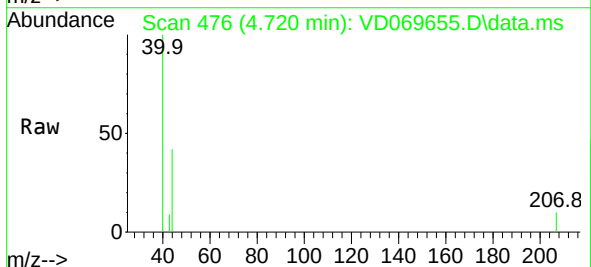
Instrument :  
MSVOA\_D  
ClientSampleId :  
GRAB-1

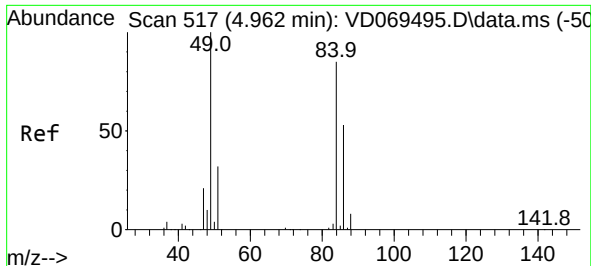
Tgt Ion: 43 Resp: 1492  
Ion Ratio Lower Upper  
43 100  
58 18.1 26.8 40.2#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.720 min Scan# 476  
Delta R.T. 0.000 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

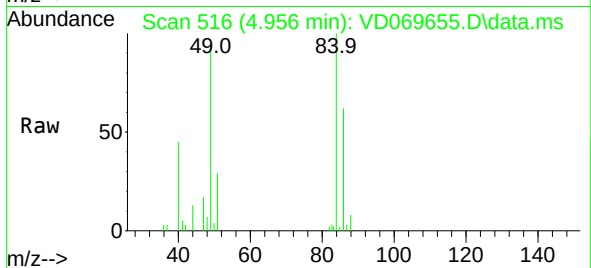
Tgt Ion: 43 Resp: 139  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#



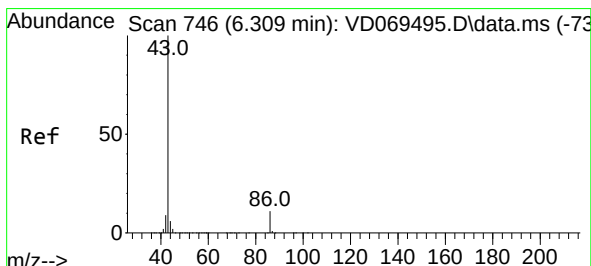
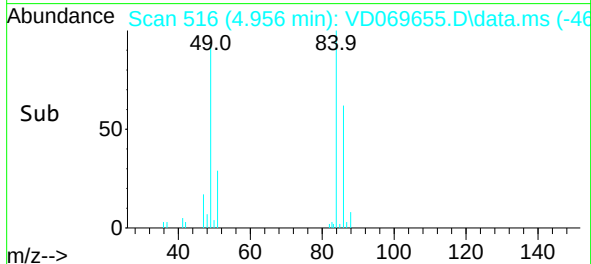
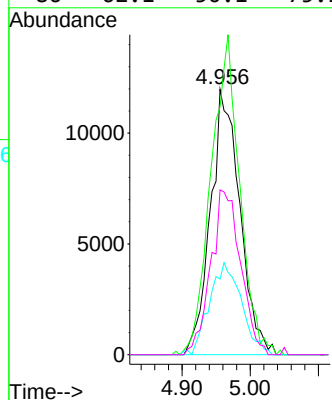


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 516  
Delta R.T. -0.006 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
GRAB-1

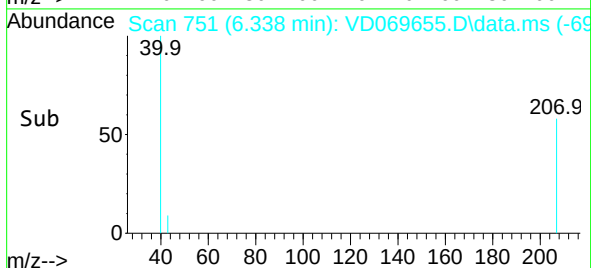
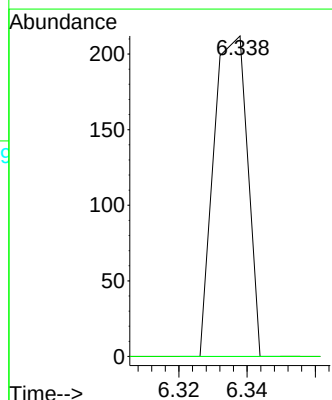
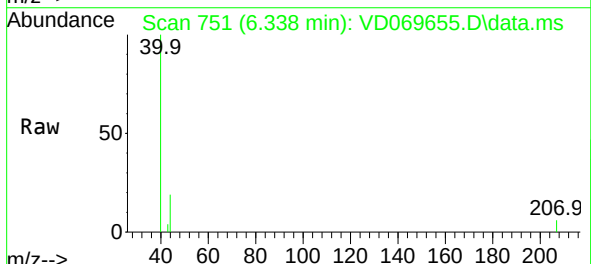


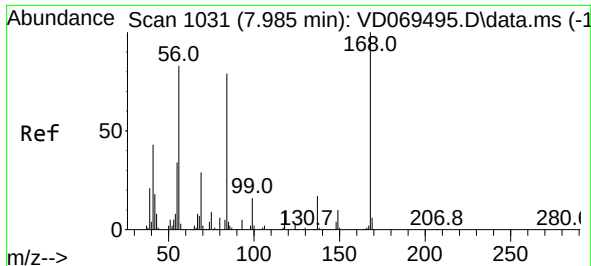
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 35888  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 93.4  | 94.0  | 141.0# |
| 51       | 28.5  | 29.7  | 44.5#  |
| 86       | 62.1  | 50.1  | 75.1   |



#23  
Vinyl Acetate  
Concen: 19.024 ug/l  
RT: 6.338 min Scan# 751  
Delta R.T. 0.029 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 145   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 9.1   | 13.7# |

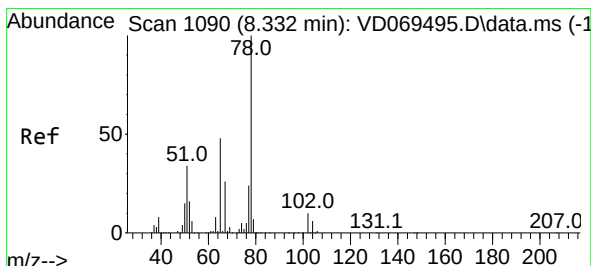
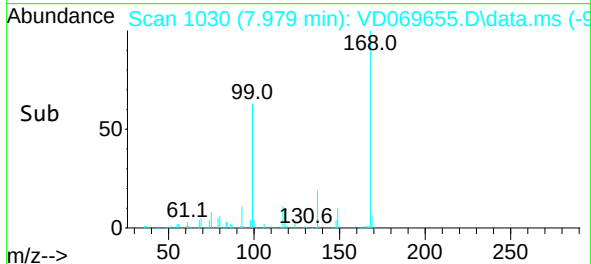
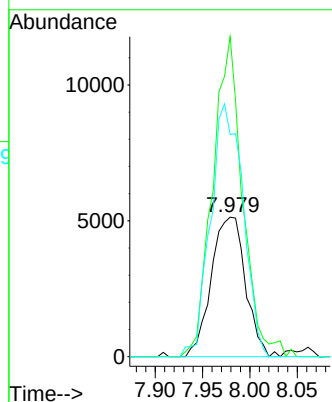
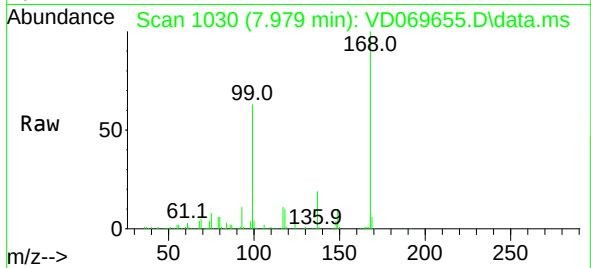




#31  
Cyclohexane  
Concen: 1.388 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

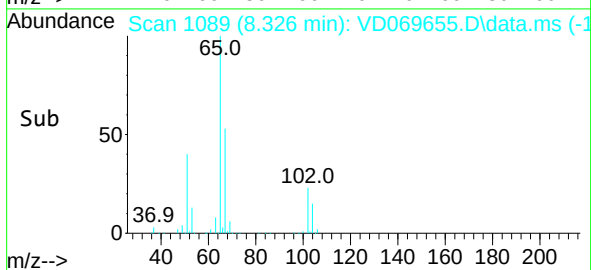
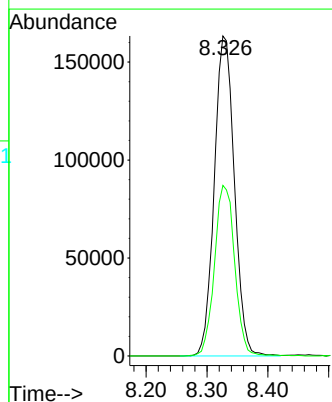
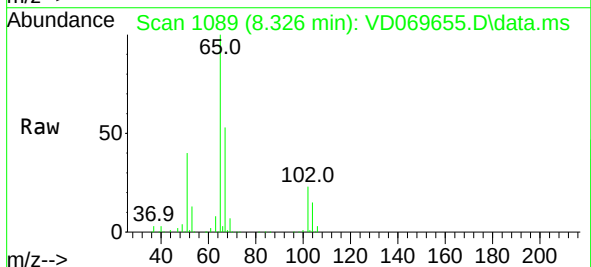
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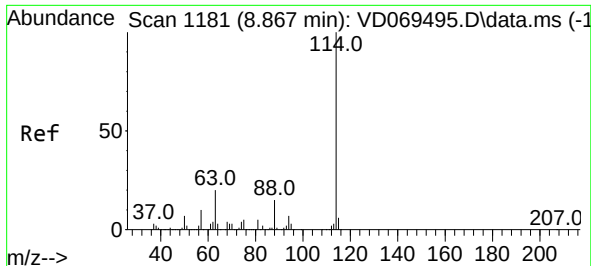
Tgt Ion: 56 Resp: 12902  
Ion Ratio Lower Upper  
56 100  
69 229.4 28.0 42.0#  
84 159.3 75.7 113.5#



#33  
1,2-Dichloroethane-d4  
Concen: 54.186 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion: 65 Resp: 373997  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 105.6



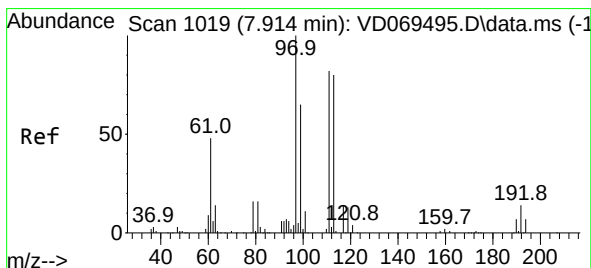
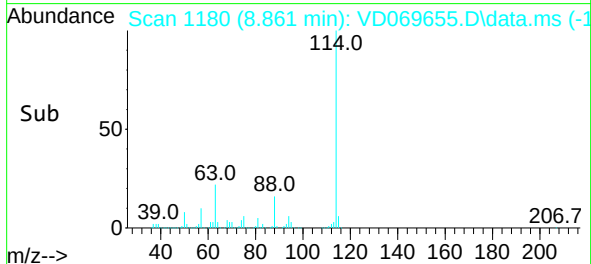
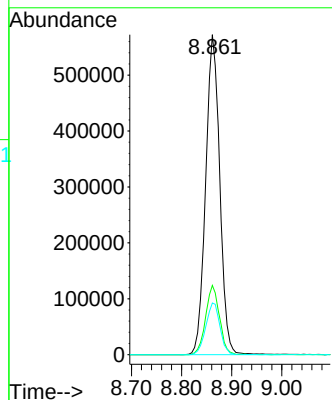
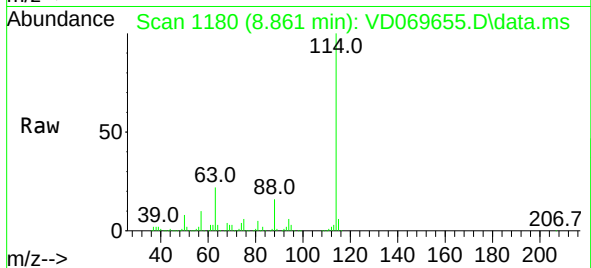


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.006 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
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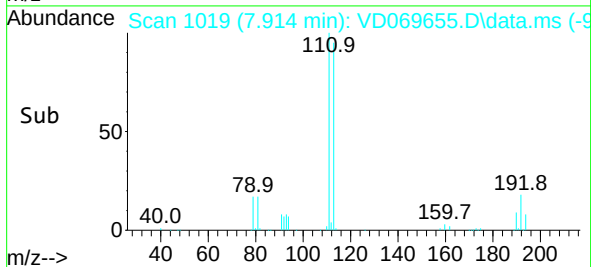
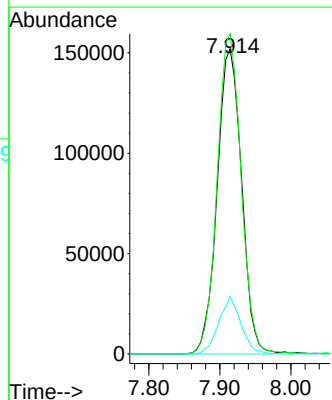
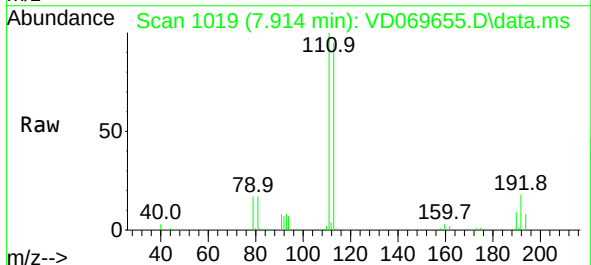
Tgt Ion:114 Resp: 1118259  
Ion Ratio Lower Upper  
114 100  
63 21.7 0.0 39.6  
88 16.2 0.0 29.8



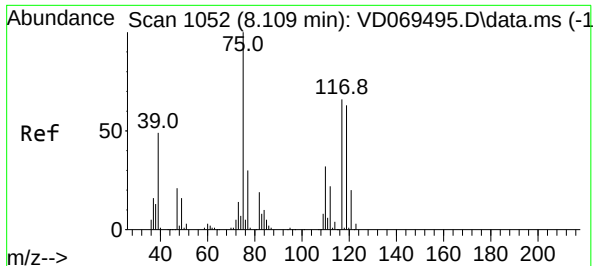
#35

Dibromofluoromethane  
Concen: 47.980 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion:113 Resp: 362691  
Ion Ratio Lower Upper  
113 100  
111 103.2 81.8 122.8  
192 17.1 13.8 20.6



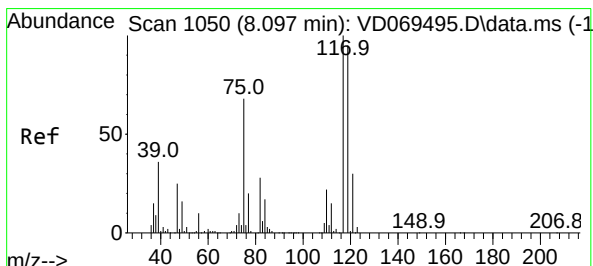
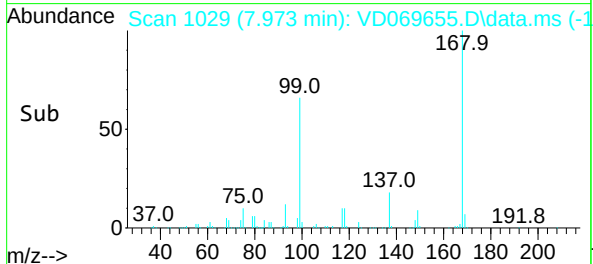
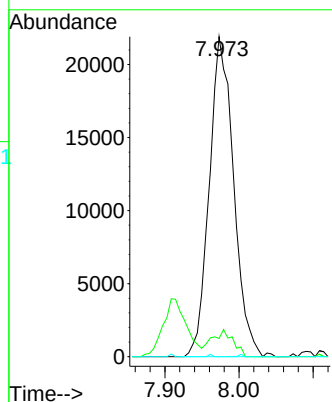
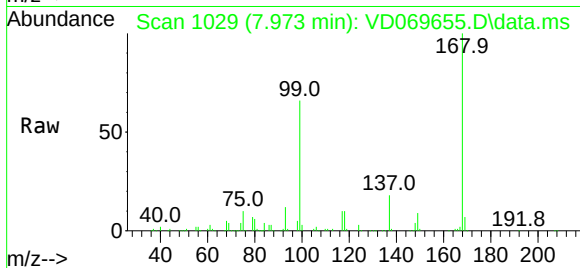




#36  
1,1-Dichloropropene  
Concen: 4.560 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

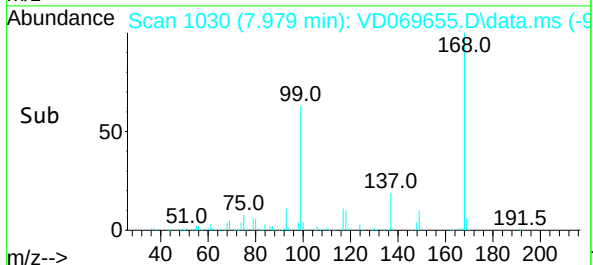
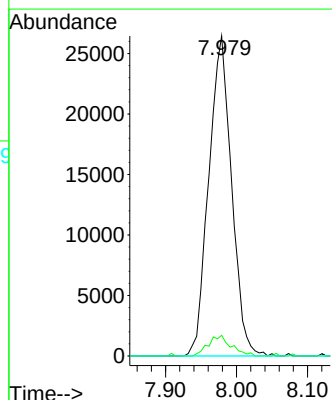
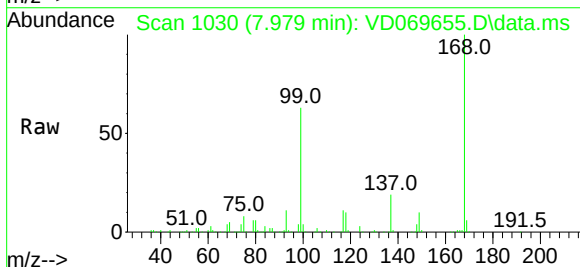
Instrument :  
MSVOA\_D  
ClientSampleId :  
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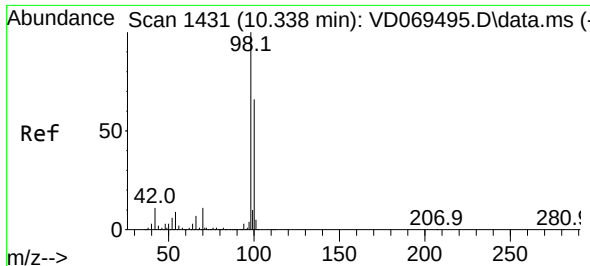
Tgt Ion: 75 Resp: 50046  
Ion Ratio Lower Upper  
75 100  
110 7.4 16.8 50.4#  
77 0.1 24.3 36.5#



#38  
Carbon Tetrachloride  
Concen: 5.431 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion: 117 Resp: 58990  
Ion Ratio Lower Upper  
117 100  
119 6.5 75.6 113.4#  
121 0.0 23.8 35.8#

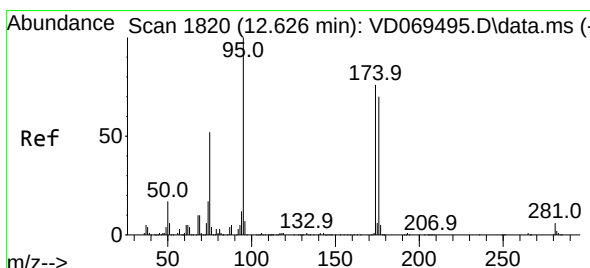
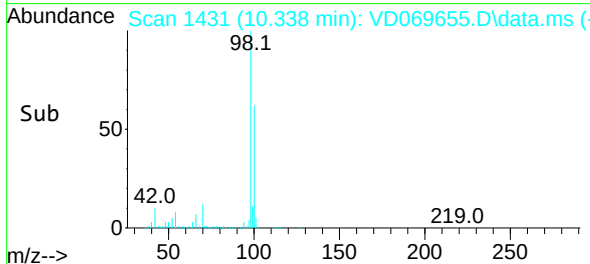
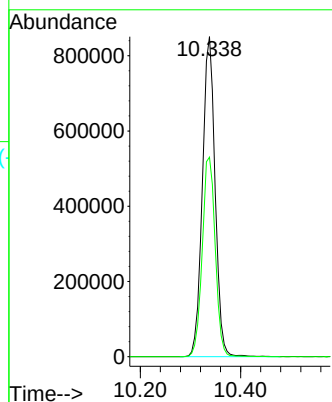
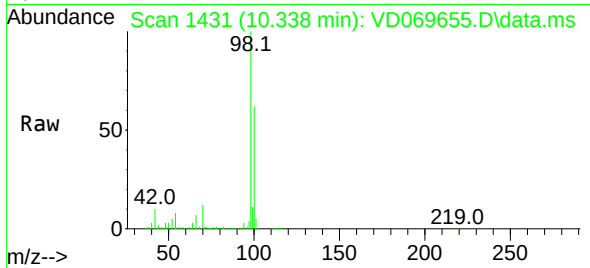




#50  
Toluene-d8  
Concen: 52.768 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

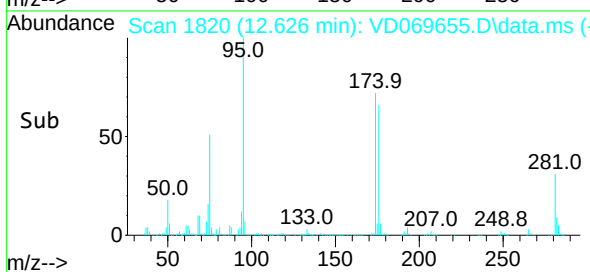
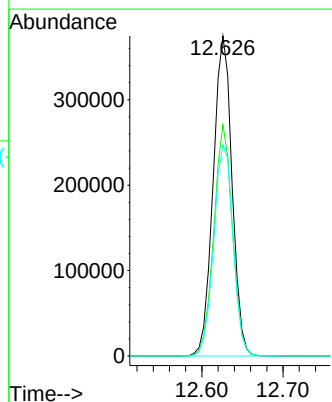
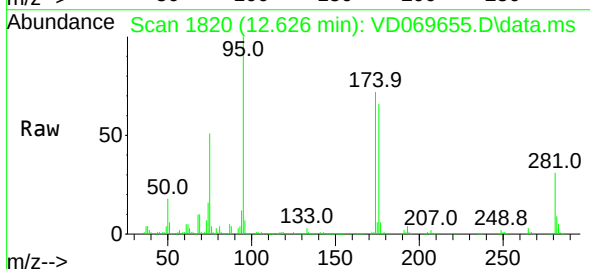
Instrument :  
MSVOA\_D  
ClientSampleId :  
GRAB-1

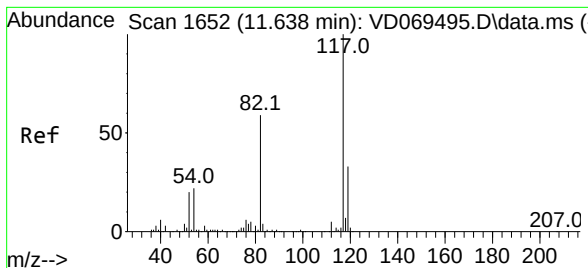
Tgt Ion: 98 Resp: 1496190  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.3 78.5



#62  
4-Bromofluorobenzene  
Concen: 64.871 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion: 95 Resp: 604696  
Ion Ratio Lower Upper  
95 100  
174 71.5 0.0 148.0  
176 67.7 0.0 139.8

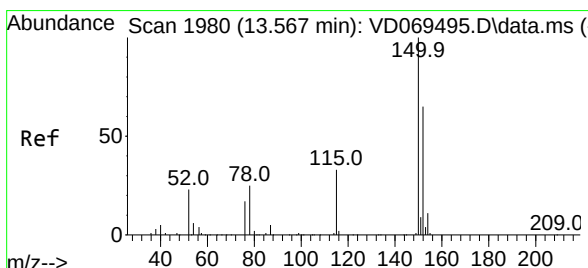
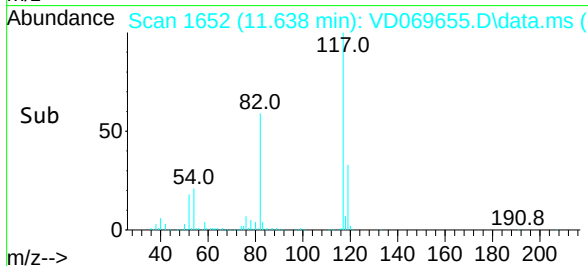
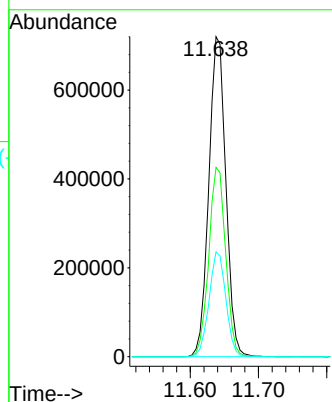
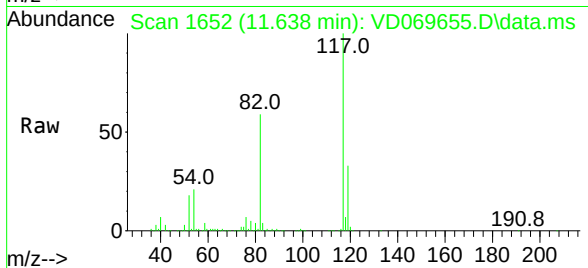




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

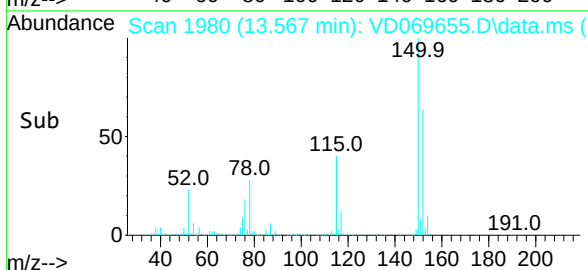
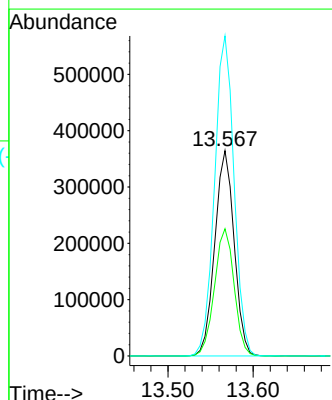
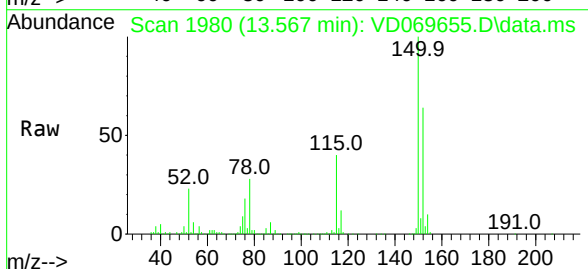
Instrument :  
MSVOA\_D  
ClientSampleId :  
GRAB-1

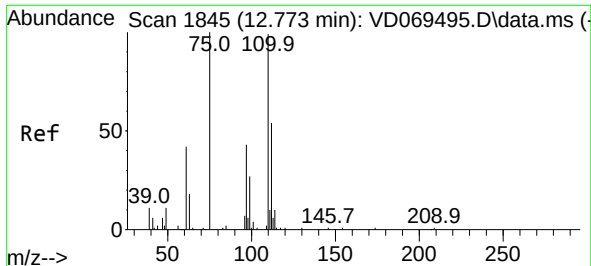
Tgt Ion:117 Resp: 1250917  
Ion Ratio Lower Upper  
117 100  
82 59.2 46.8 70.2  
119 32.8 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion:152 Resp: 575592  
Ion Ratio Lower Upper  
152 100  
115 62.8 31.7 95.1  
150 157.2 0.0 350.8

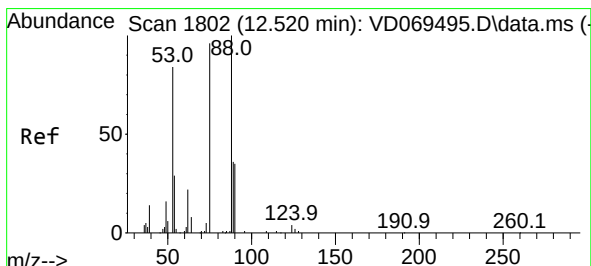
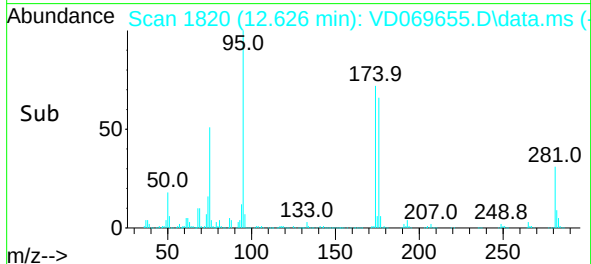
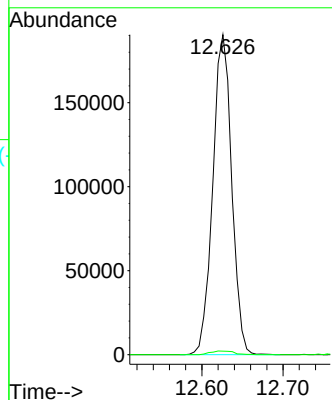
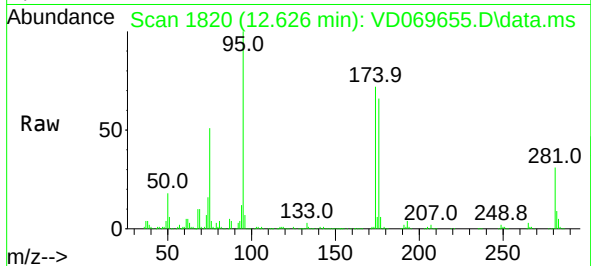




#76  
1,2,3-Trichloropropane  
Concen: 54.562 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

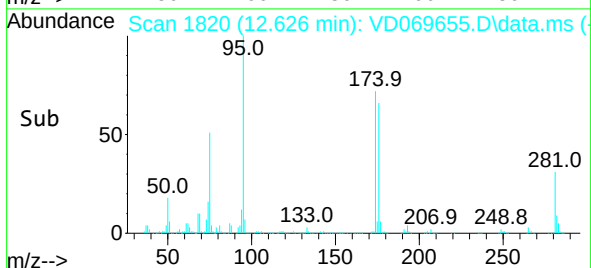
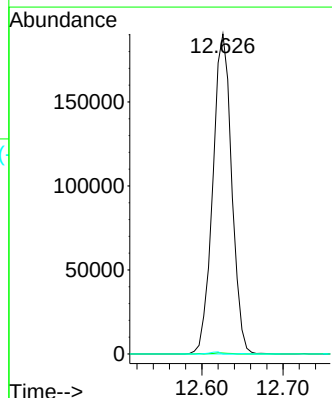
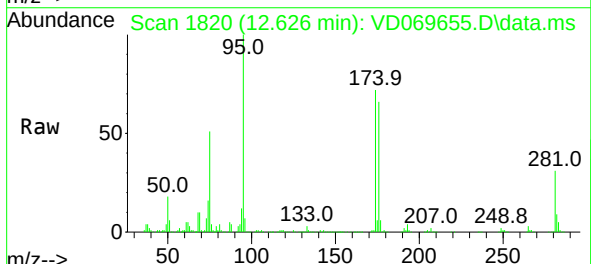
Instrument :  
MSVOA\_D  
ClientSampleId :  
GRAB-1

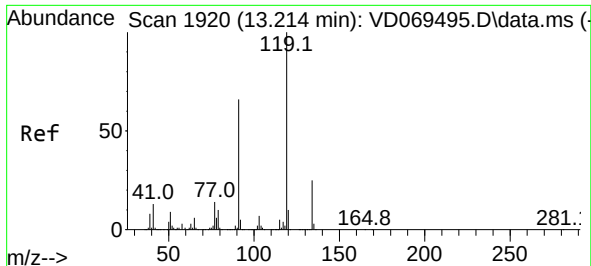
Tgt Ion: 75 Resp: 308286  
Ion Ratio Lower Upper  
75 100  
77 1.4 162.6 487.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 136.234 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion: 75 Resp: 308286  
Ion Ratio Lower Upper  
75 100  
53 0.3 74.6 112.0#  
89 0.4 35.3 52.9#

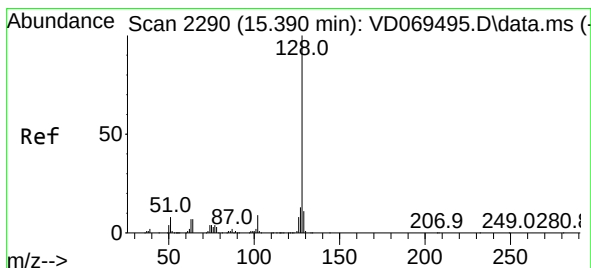
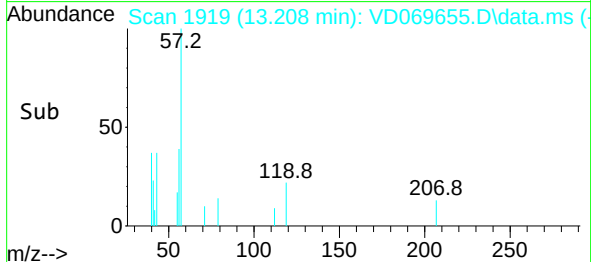
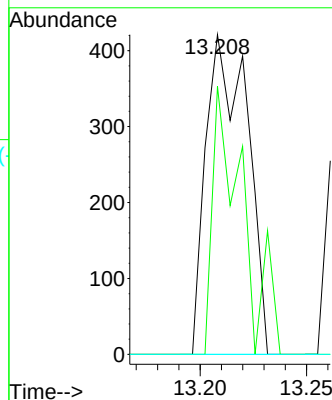
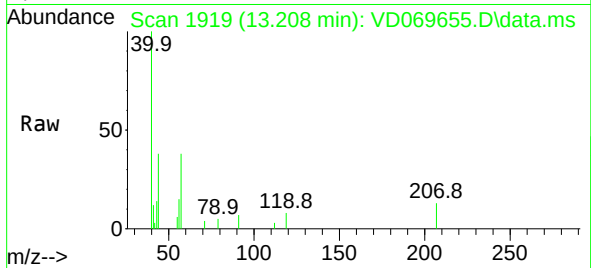




#83  
tert-Butylbenzene  
Concen: 2.010 ug/l  
RT: 13.208 min Scan# 1919  
Delta R.T. -0.006 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
GRAB-1

Tgt Ion:119 Resp: 567  
Ion Ratio Lower Upper  
119 100  
91 61.4 32.5 97.4  
134 0.0 12.9 38.7#



#95  
Naphthalene  
Concen: 3.372 ug/l  
RT: 15.390 min Scan# 2290  
Delta R.T. 0.000 min  
Lab File: VD069655.D  
Acq: 09 Jul 2021 19:23

Tgt Ion:128 Resp: 347  
Ion Ratio Lower Upper  
128 100  
127 24.2 10.6 16.0#  
129 0.0 8.7 13.1#

