

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120321\  
 Data File : VN069734.D  
 Acq On : 3 Dec 2021 22:52  
 Operator : JC/MD  
 Sample : VN1203WBL02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

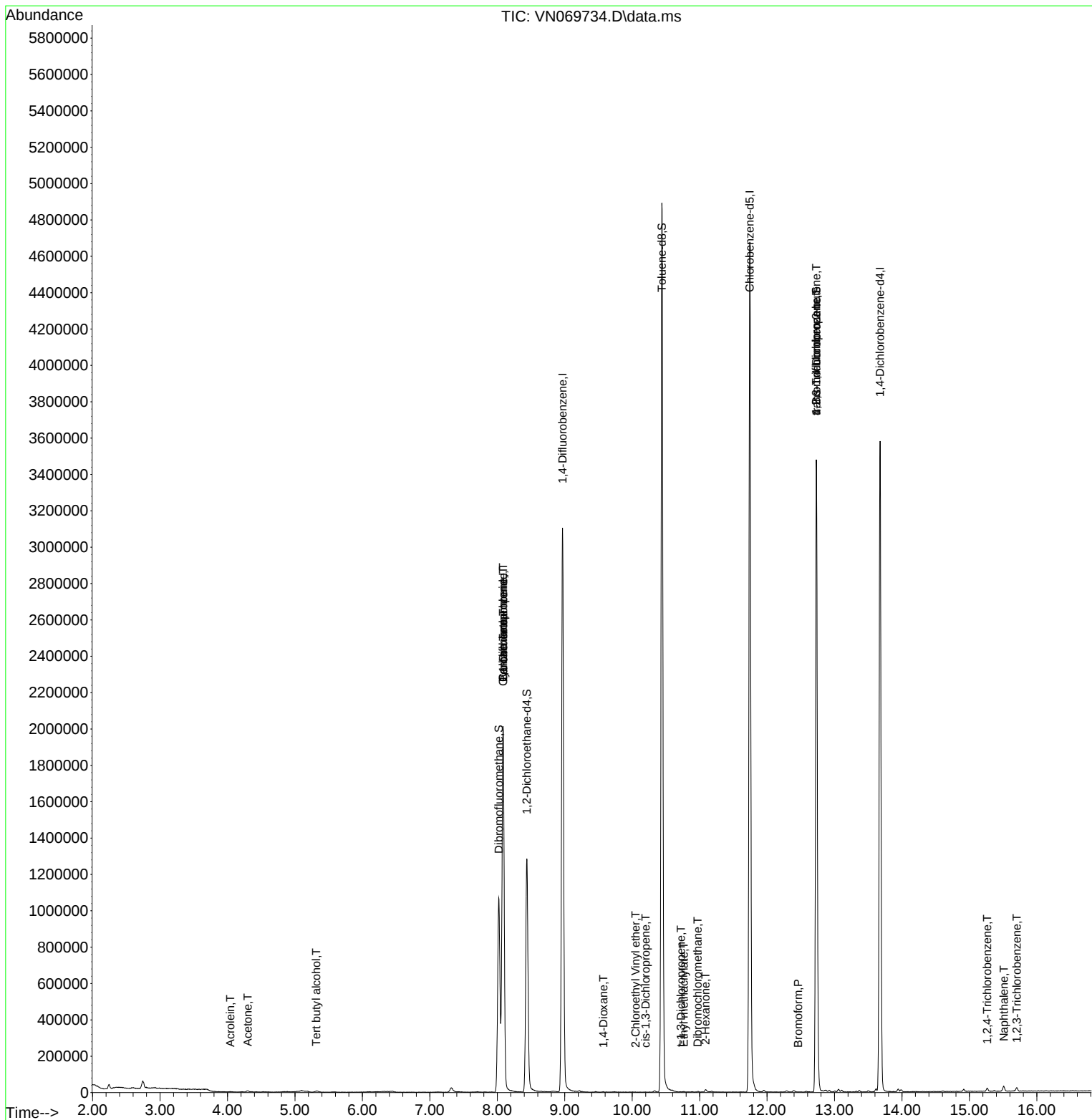
Instrument :  
 MSVOA\_N  
 ClientSampleId :

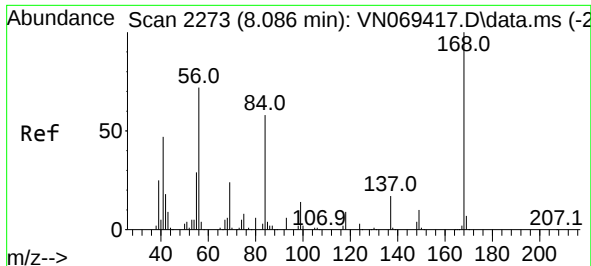
Quant Time: Dec 04 05:38:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.086  | 168   | 1504596  | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114   | 2608209  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.744 | 117   | 2628285  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675 | 152   | 978635   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65    | 1124956  | 48.425   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 96.840%  |
| 35) Dibromofluoromethane      | 8.021  | 113   | 771945   | 47.251   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 94.500%  |
| 50) Toluene-d8                | 10.440 | 98    | 3333909  | 50.822   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 101.640% |
| 62) 4-Bromofluorobenzene      | 12.731 | 95    | 1205417  | 50.722   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 101.440% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 5.315  | 59    | 3639     | 0.829    | ug/l # | 71       |
| 13) Acrolein                  | 4.041  | 56    | 1111     | 0.297    | ug/l # | 60       |
| 16) Acetone                   | 4.299  | 43    | 8433     | 0.603    | ug/l   | 96       |
| 31) Cyclohexane               | 8.088  | 56    | 40662    | 1.258    | ug/l # | 33       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 131377   | 5.291    | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.086  | 117   | 155730   | 6.396    | ug/l # | 17       |
| 49) 1,4-Dioxane               | 9.574  | 88    | 238      | 0.520    | ug/l # | 9        |
| 53) t-1,3-Dichloropropene     | 10.722 | 75    | 541      | 2.811    | ug/l # | 81       |
| 54) cis-1,3-Dichloropropene   | 10.199 | 75    | 185      | 2.004    | ug/l # | 36       |
| 56) Ethyl methacrylate        | 10.768 | 69    | 1103     | 2.309    | ug/l # | 78       |
| 58) 2-Chloroethyl Vinyl ether | 10.052 | 63    | 123      | 18.401   | ug/l # | 45       |
| 59) 2-Hexanone                | 11.087 | 43    | 11594    | 0.432    | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.971 | 129   | 555      | 2.403    | ug/l # | 11       |
| 71) Bromoform                 | 12.463 | 173   | 95       | 2.736    | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.731 | 75    | 677098   | 24.126   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731 | 75    | 677098   | 76.609   | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180   | 5725     | 3.214    | ug/l   | 92       |
| 95) Naphthalene               | 15.509 | 128   | 26144    | 4.488    | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180   | 7278     | 2.878    | ug/l   | 93       |

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

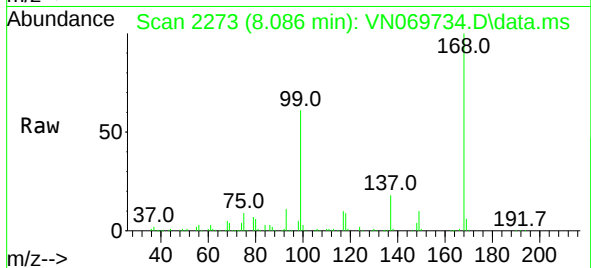
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Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration



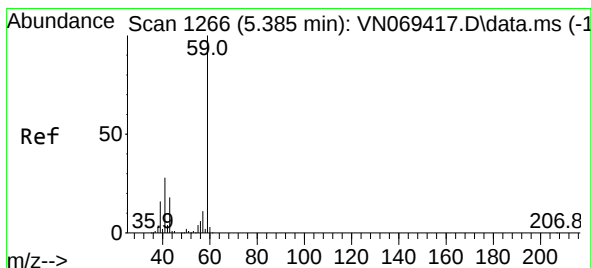
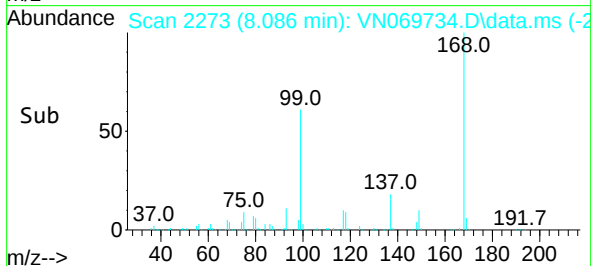
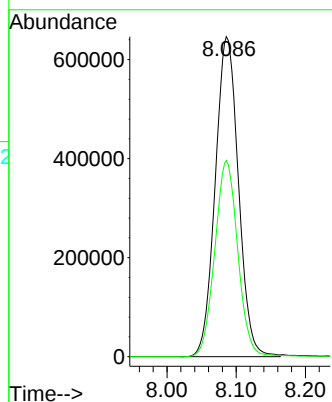


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Instrument :  
MSVOA\_N  
ClientSampleId :

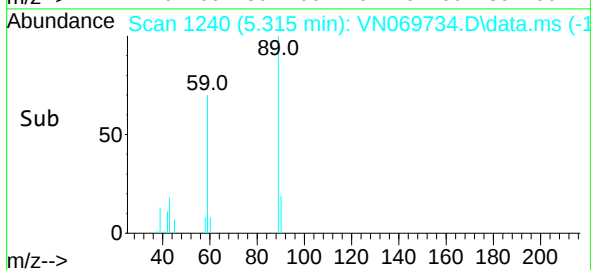
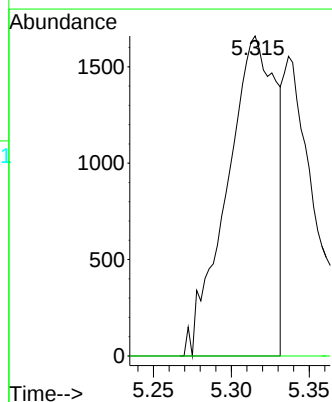
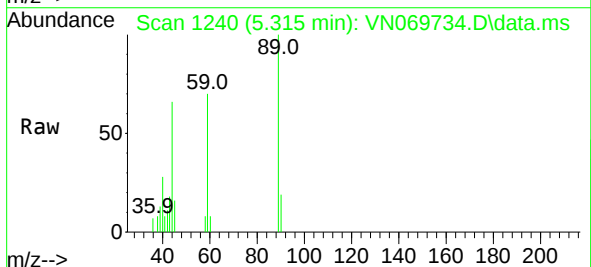


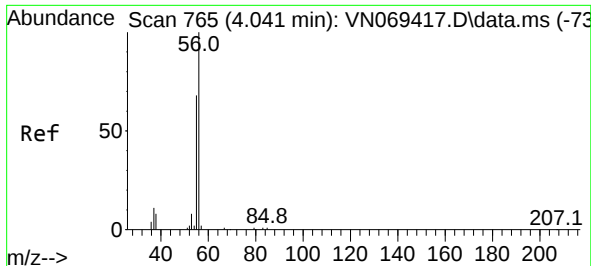
Tgt Ion:168 Resp: 1504596  
Ion Ratio Lower Upper  
168 100  
99 61.3 41.3 61.9



#11  
Tert butyl alcohol  
Concen: 0.829 ug/l  
RT: 5.315 min Scan# 1240  
Delta R.T. -0.075 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

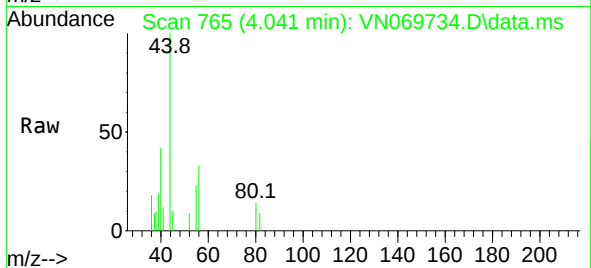
Tgt Ion: 59 Resp: 3639  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



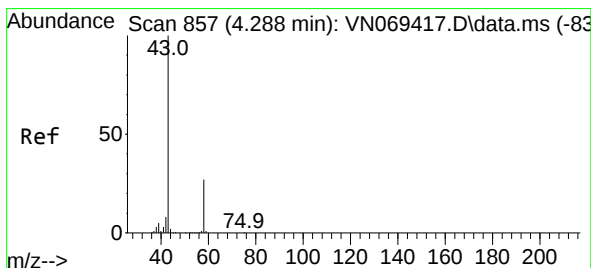
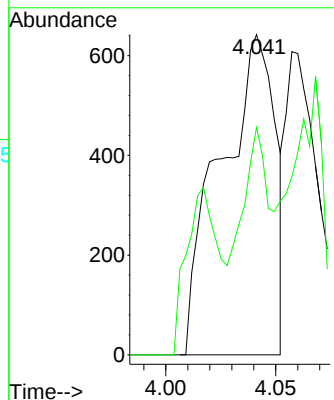


#13  
Acrolein  
Concen: 0.297 ug/l  
RT: 4.041 min Scan# 765  
Delta R.T. 0.003 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Instrument :  
MSVOA\_N  
ClientSampleId :

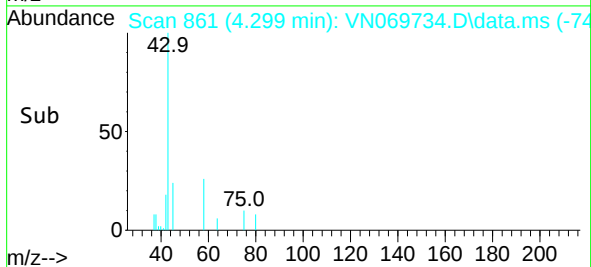
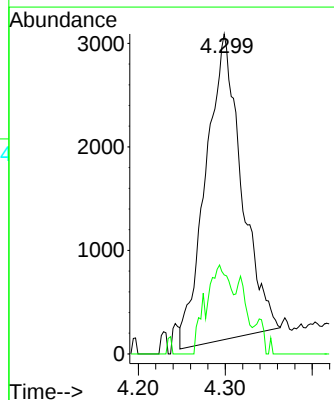
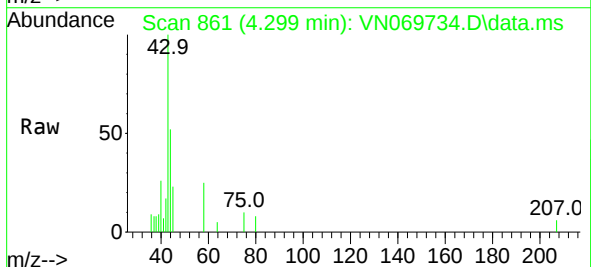


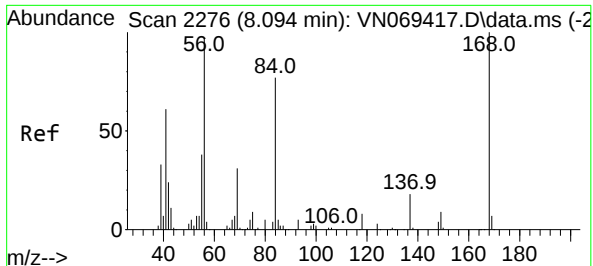
Tgt Ion: 56 Resp: 1111  
Ion Ratio Lower Upper  
56 100  
55 37.7 56.6 85.0#



#16  
Acetone  
Concen: 0.603 ug/l  
RT: 4.299 min Scan# 861  
Delta R.T. 0.008 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

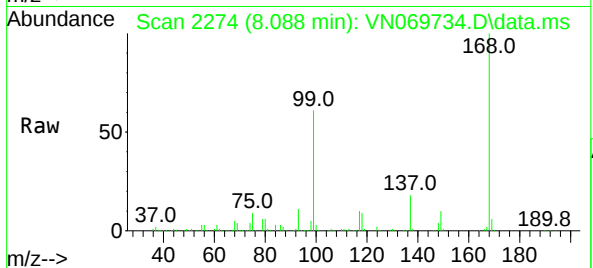
Tgt Ion: 43 Resp: 8433  
Ion Ratio Lower Upper  
43 100  
58 26.9 23.1 34.7



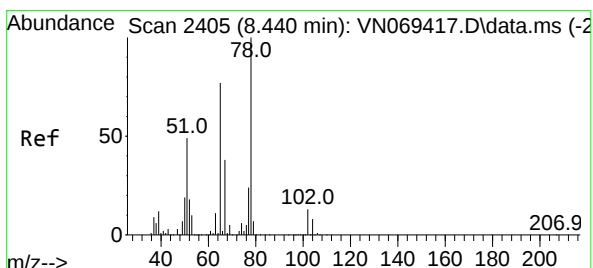
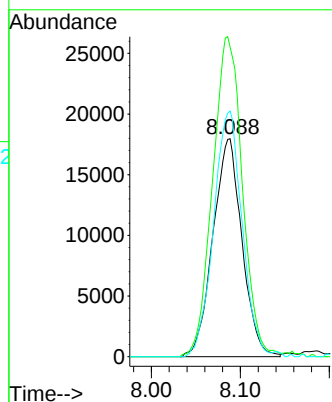
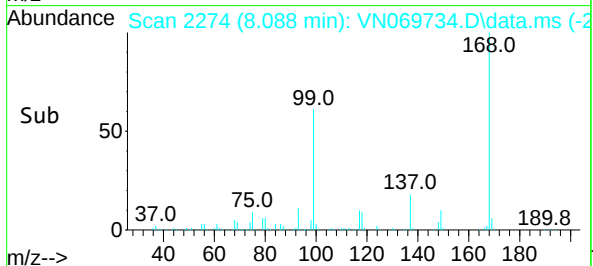


#31  
Cyclohexane  
Concen: 1.258 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

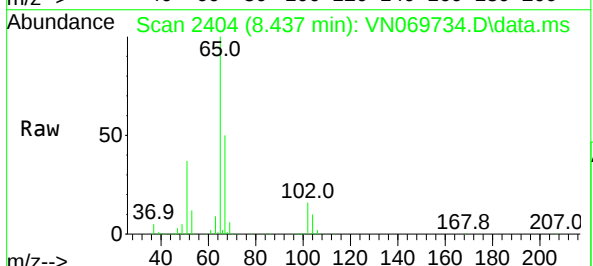
Instrument :  
MSVOA\_N  
ClientSampleId :



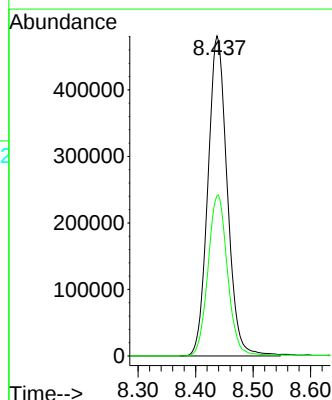
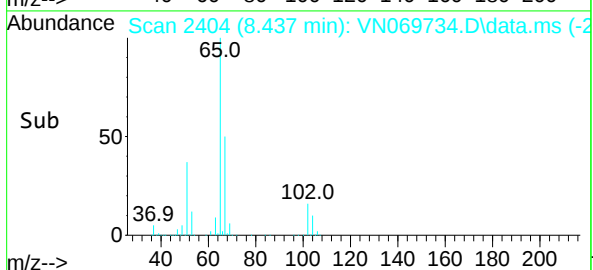
Tgt Ion: 56 Resp: 40662  
Ion Ratio Lower Upper  
56 100  
69 142.0 27.1 40.7#  
84 112.6 73.4 110.0#

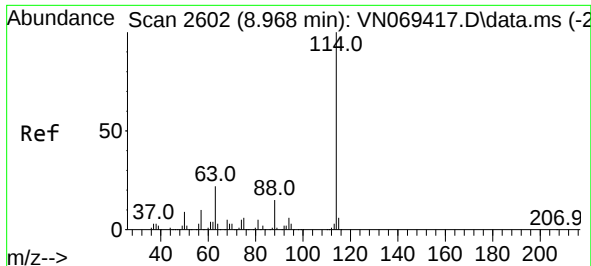


#33  
1,2-Dichloroethane-d4  
Concen: 48.425 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. 0.000 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52



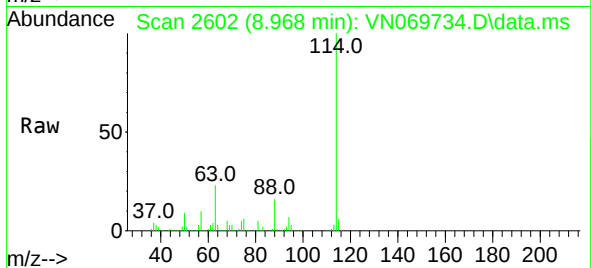
Tgt Ion: 65 Resp: 1124956  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 103.0





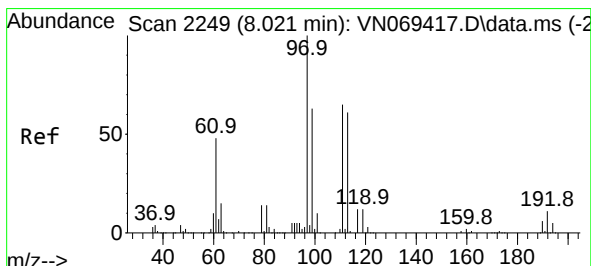
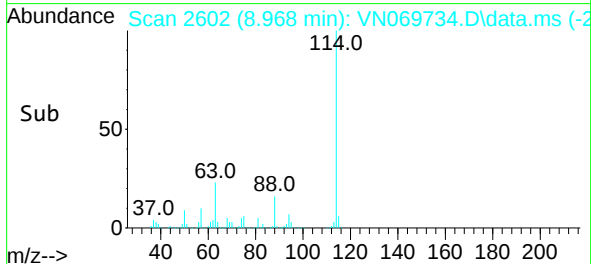
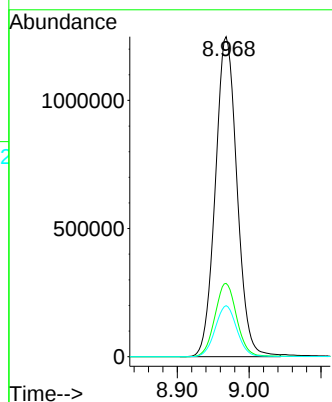
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. 0.000 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:114 Resp: 2608209

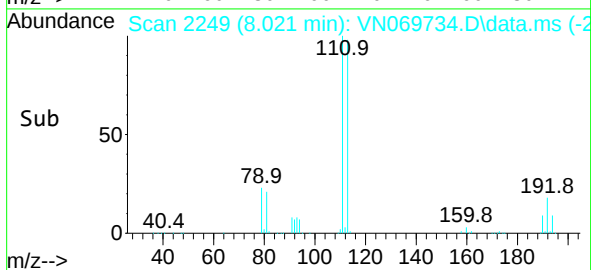
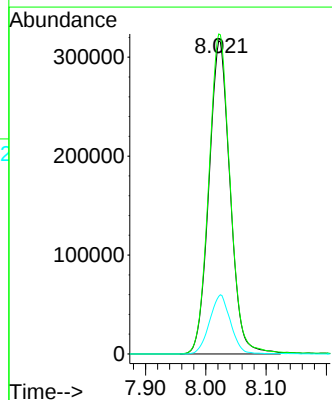
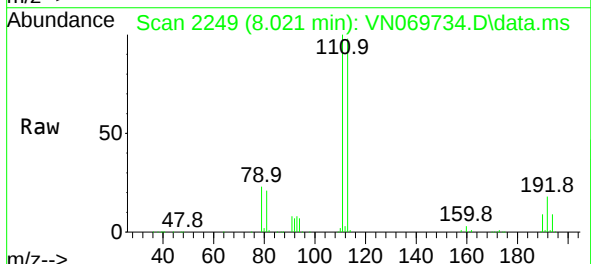
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 22.9  | 0.0   | 37.8  |
| 88  | 15.9  | 0.0   | 27.4  |

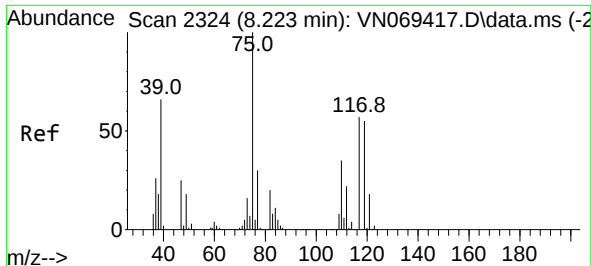


#35  
Dibromofluoromethane  
Concen: 47.251 ug/l  
RT: 8.021 min Scan# 2249  
Delta R.T. -0.003 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Tgt Ion:113 Resp: 771945

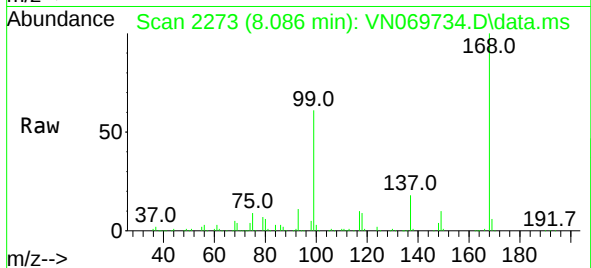
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 103.5 | 82.2  | 123.2 |
| 192 | 18.7  | 16.9  | 25.3  |



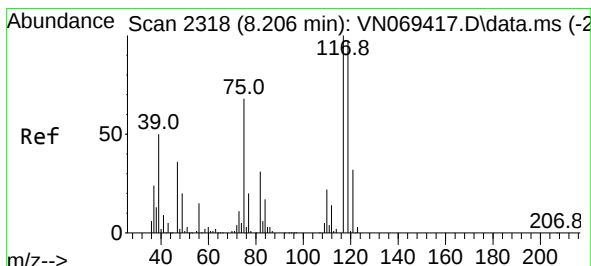
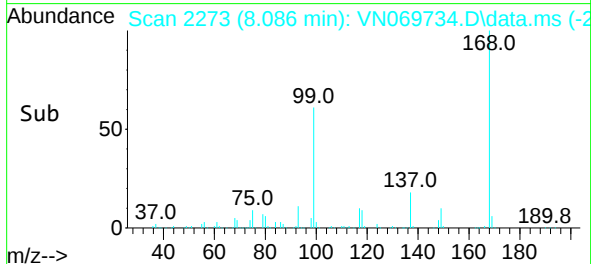
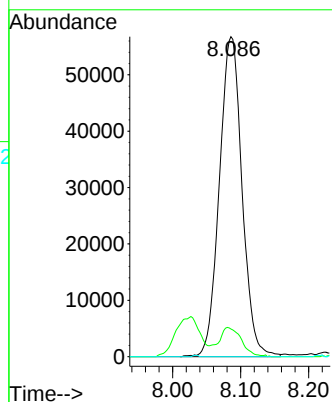


#36  
 1,1-Dichloropropene  
 Concen: 5.291 ug/l  
 RT: 8.086 min Scan# 211  
 Delta R.T. -0.137 min  
 Lab File: VN069734.D  
 Acq: 3 Dec 2021 22:52

Instrument :  
 MSVOA\_N  
 ClientSampleId :

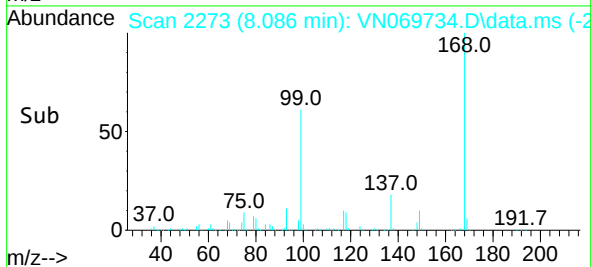
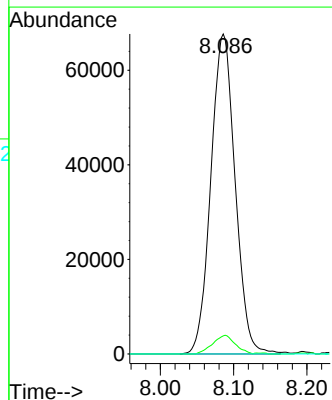
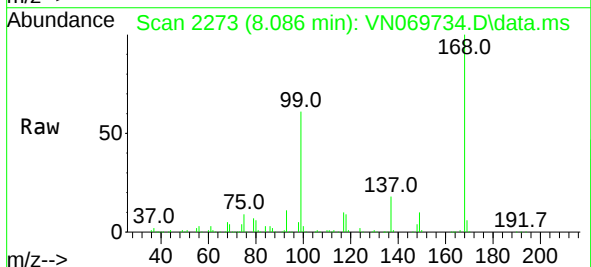


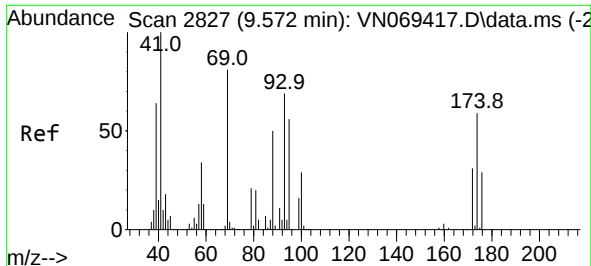
Tgt Ion: 75 Resp: 131377  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 18.4 55.2#  
 77 0.0 24.4 36.6#



#38  
 Carbon Tetrachloride  
 Concen: 6.396 ug/l  
 RT: 8.086 min Scan# 2273  
 Delta R.T. -0.121 min  
 Lab File: VN069734.D  
 Acq: 3 Dec 2021 22:52

Tgt Ion: 117 Resp: 155730  
 Ion Ratio Lower Upper  
 117 100  
 119 5.7 76.1 114.1#  
 121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 0.520 ug/l

RT: 9.574 min Scan# 21

Delta R.T. 0.003 min

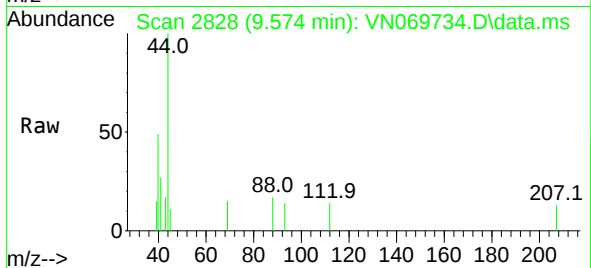
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Acq: 3 Dec 2021 22:52

Instrument :

MSVOA\_N

ClientSampleId :



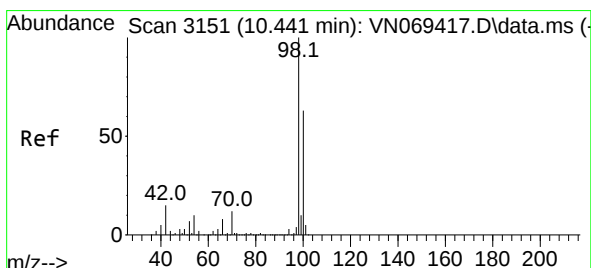
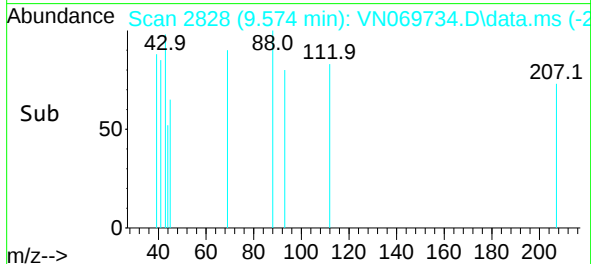
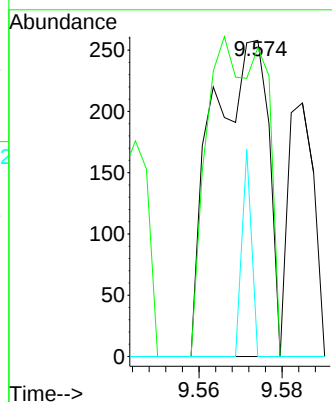
Tgt Ion: 88 Resp: 238

Ion Ratio Lower Upper

88 100

43 106.7 23.4 35.2#

58 11.3 50.6 75.8#



#50

Toluene-d8

Concen: 50.822 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. -0.003 min

Lab File: VN069734.D

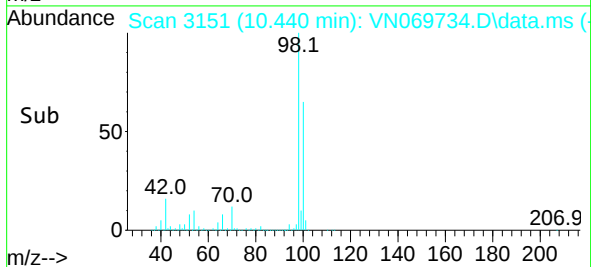
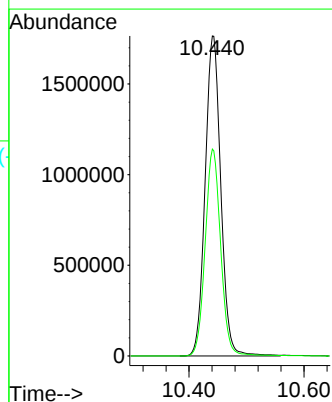
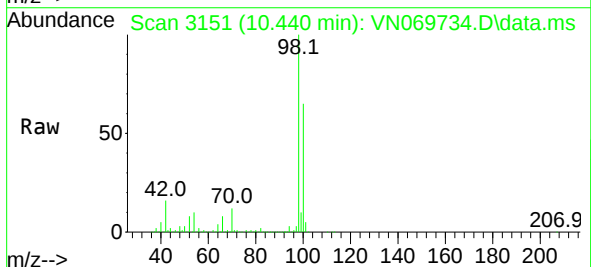
Acq: 3 Dec 2021 22:52

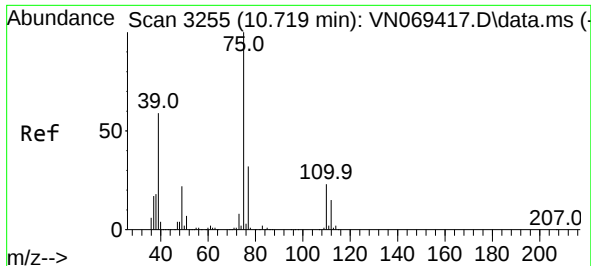
Tgt Ion: 98 Resp: 3333909

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6

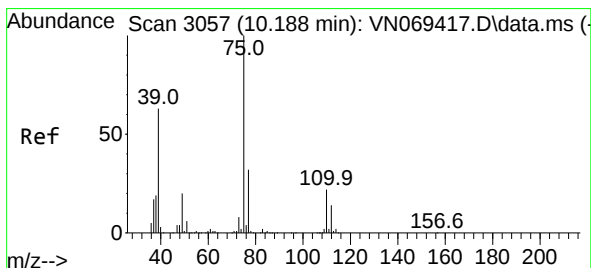
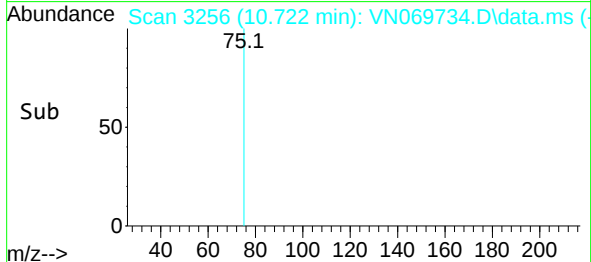
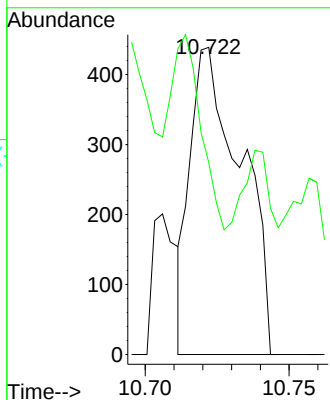
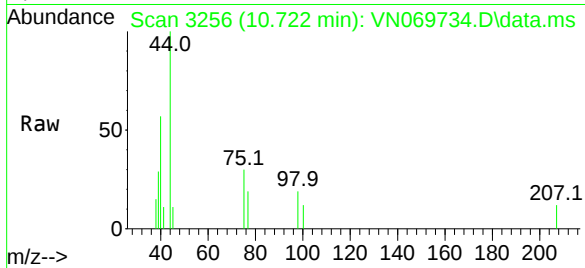




#53  
 t-1,3-Dichloropropene  
 Concen: 2.811 ug/l  
 RT: 10.722 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: VN069734.D  
 Acq: 3 Dec 2021 22:52

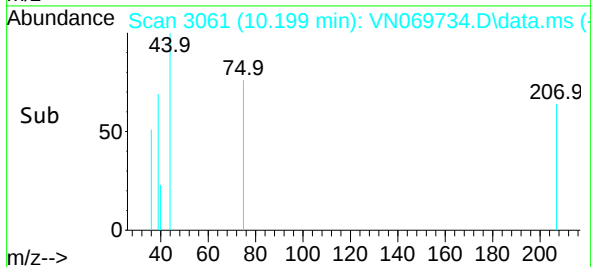
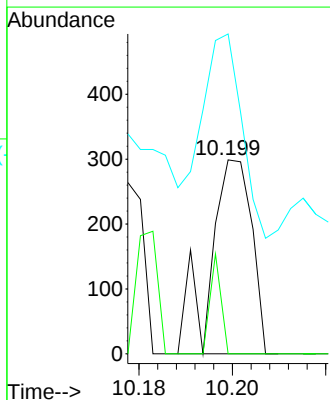
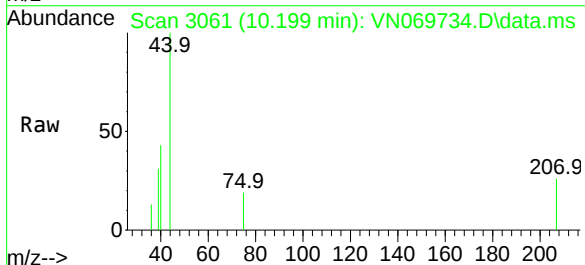
Instrument :  
 MSVOA\_N  
 ClientSampleId :

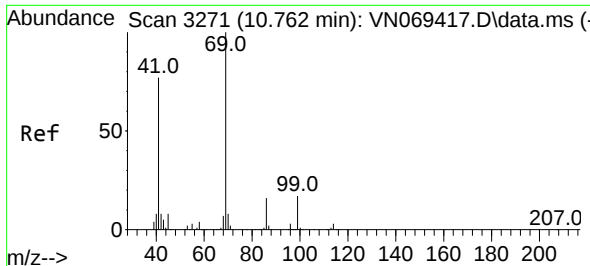
Tgt Ion: 75 Resp: 541  
 Ion Ratio Lower Upper  
 75 100  
 77 21.2 25.6 38.4#



#54  
 cis-1,3-Dichloropropene  
 Concen: 2.004 ug/l  
 RT: 10.199 min Scan# 3061  
 Delta R.T. 0.008 min  
 Lab File: VN069734.D  
 Acq: 3 Dec 2021 22:52

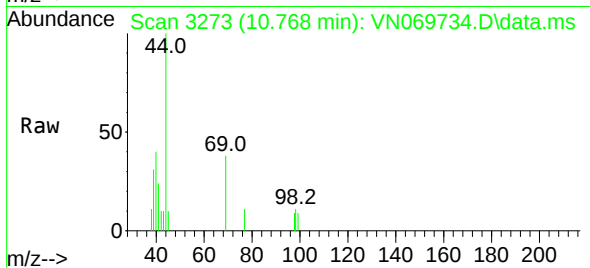
Tgt Ion: 75 Resp: 185  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.4 39.6#  
 39 101.0 42.5 63.7#



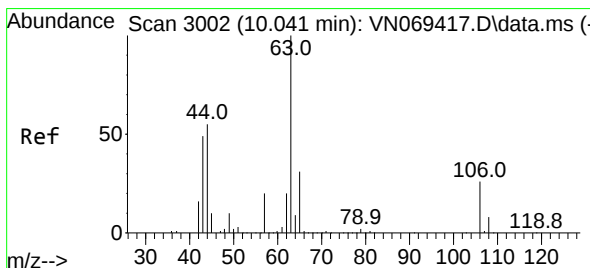
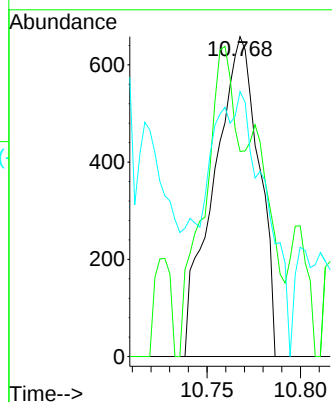


#56  
Ethyl methacrylate  
Concen: 2.309 ug/l  
RT: 10.768 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Instrument :  
MSVOA\_N  
ClientSampleId :

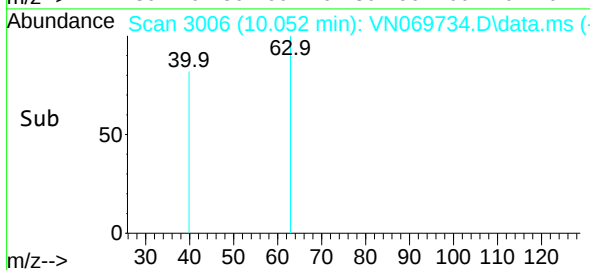
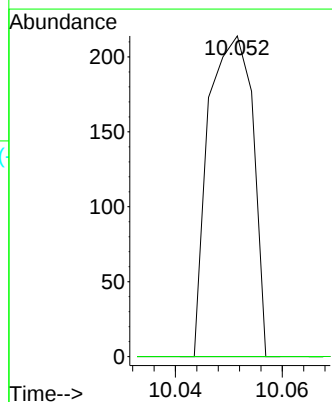
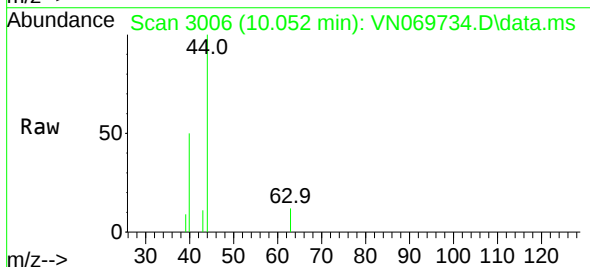


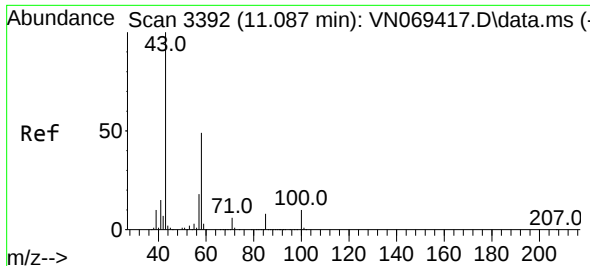
Tgt Ion: 69 Resp: 1103  
Ion Ratio Lower Upper  
69 100  
41 70.8 51.4 77.0  
39 16.2 34.6 52.0#



#58  
2-Chloroethyl Vinyl ether  
Concen: 18.401 ug/l  
RT: 10.052 min Scan# 3006  
Delta R.T. 0.009 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Tgt Ion: 63 Resp: 123  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#

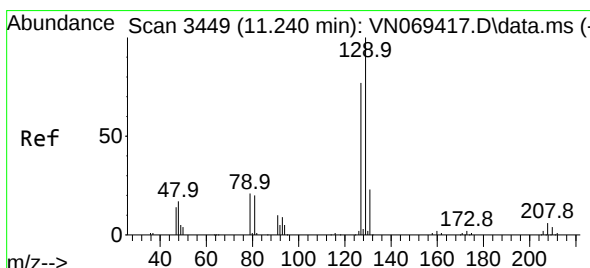
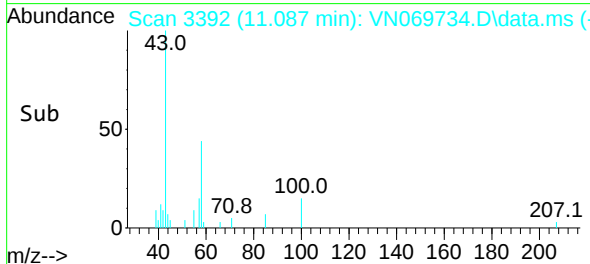
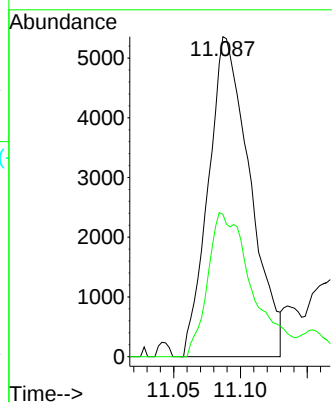
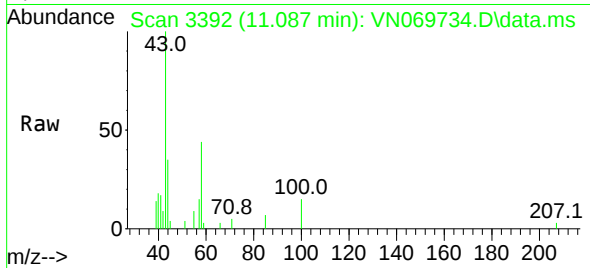




#59  
2-Hexanone  
Concen: 0.432 ug/l  
RT: 11.087 min Scan# 3392  
Delta R.T. -0.000 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

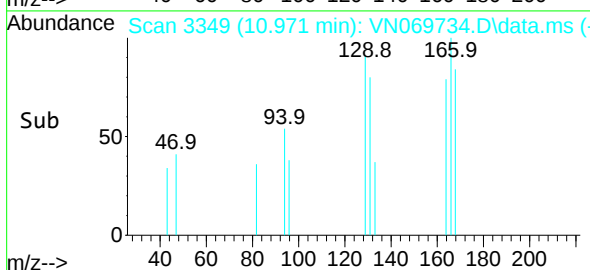
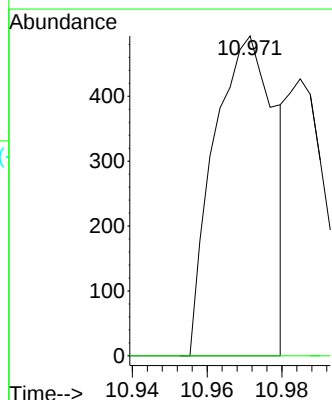
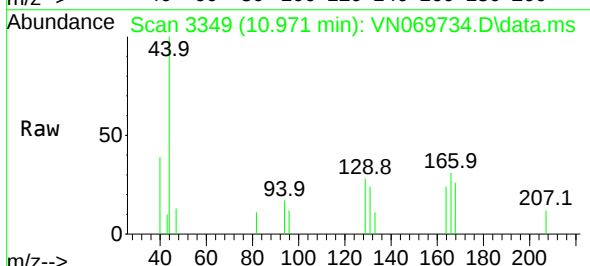
Instrument :  
MSVOA\_N  
ClientSampleId :

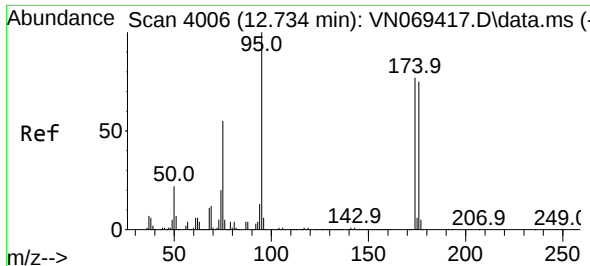
Tgt Ion: 43 Resp: 11594  
Ion Ratio Lower Upper  
43 100  
58 48.2 26.9 80.7



#60  
Dibromochloromethane  
Concen: 2.403 ug/l  
RT: 10.971 min Scan# 3349  
Delta R.T. -0.269 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Tgt Ion: 129 Resp: 555  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#

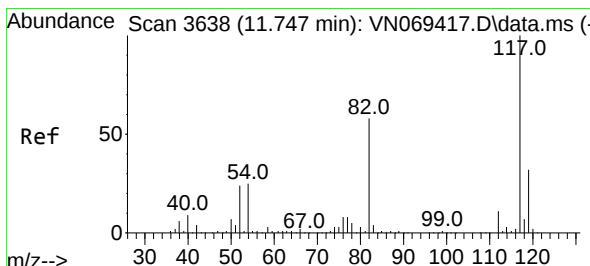
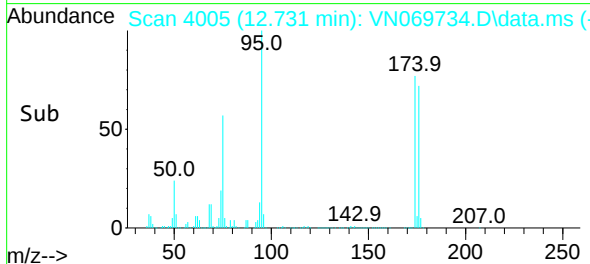
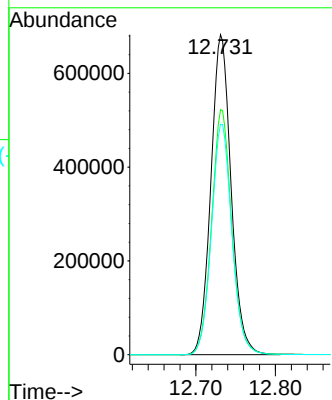
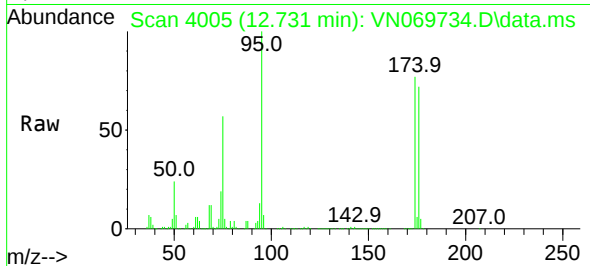




#62  
4-Bromofluorobenzene  
Concen: 50.722 ug/l  
RT: 12.731 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

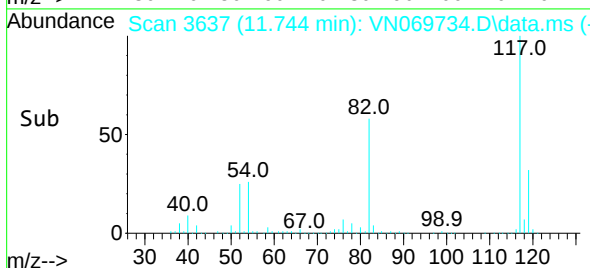
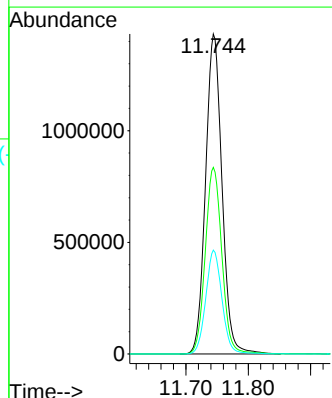
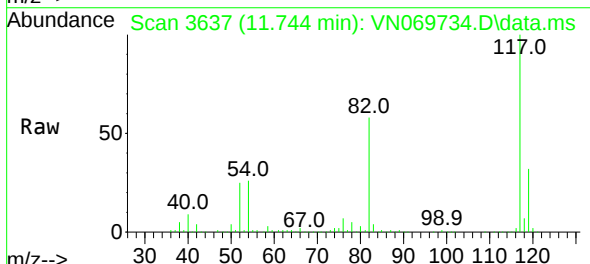
Instrument :  
MSVOA\_N  
ClientSampleId :

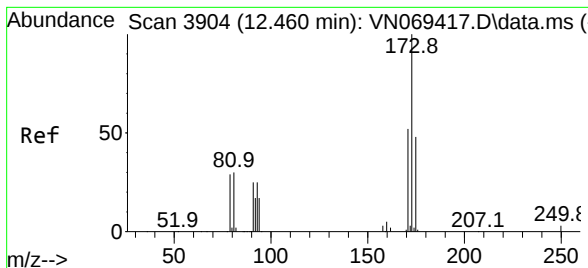
Tgt Ion: 95 Resp: 1205417  
Ion Ratio Lower Upper  
95 100  
174 76.4 0.0 187.2  
176 73.0 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.002 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

Tgt Ion: 117 Resp: 2628285  
Ion Ratio Lower Upper  
117 100  
82 58.3 42.4 63.6  
119 32.4 25.4 38.2





#71

Bromoform

Concen: 2.736 ug/l

RT: 12.463 min Scan# 3905

Delta R.T. 0.003 min

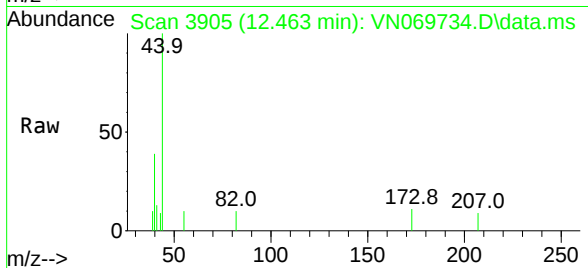
Lab File: VN069734.D

Acq: 3 Dec 2021 22:52

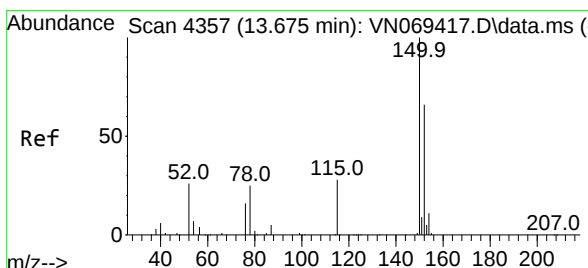
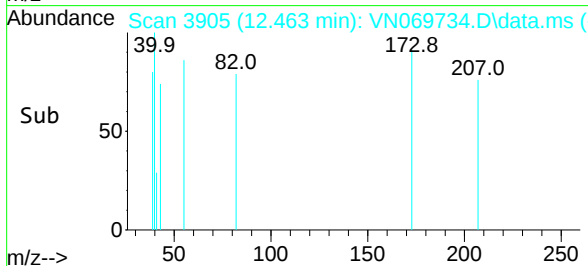
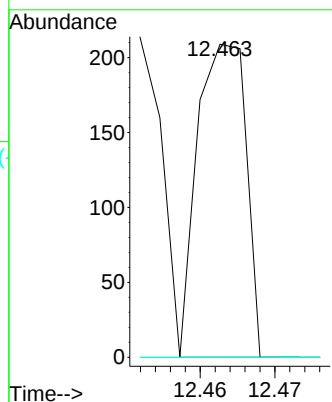
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 95    |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 0.0   | 24.2  | 72.6# |
| 254       | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

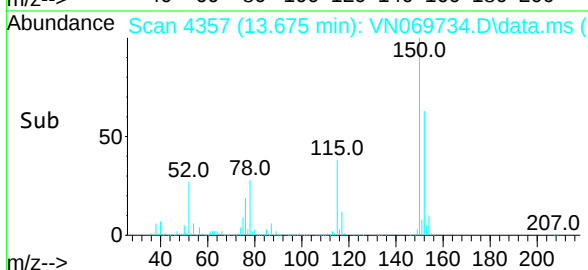
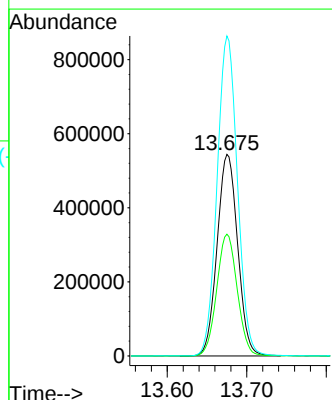
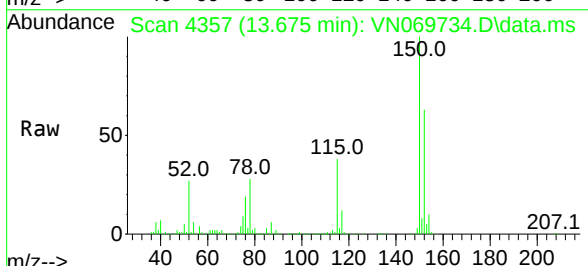
RT: 13.675 min Scan# 4357

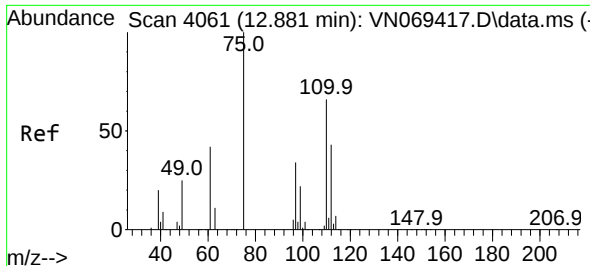
Delta R.T. -0.003 min

Lab File: VN069734.D

Acq: 3 Dec 2021 22:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 978635 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 60.2  | 27.5  | 82.5   |
| 150       | 156.8 | 0.0   | 344.4  |

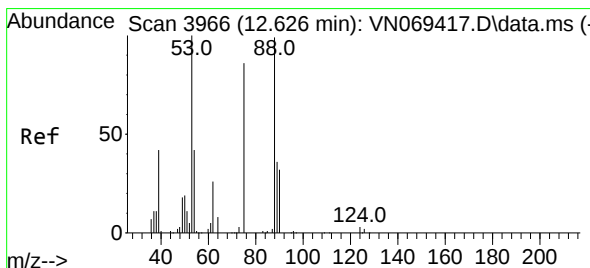
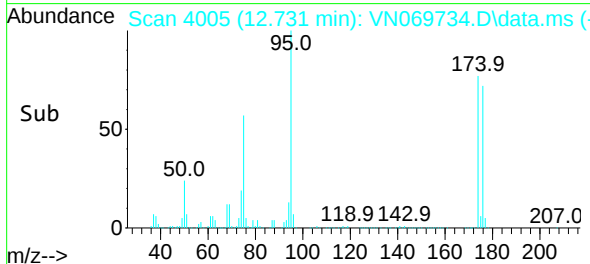
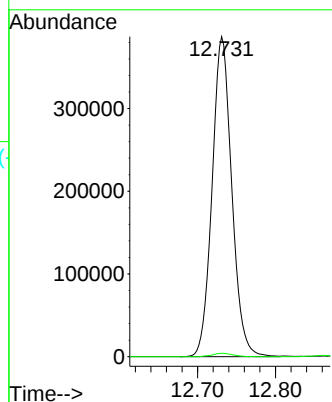
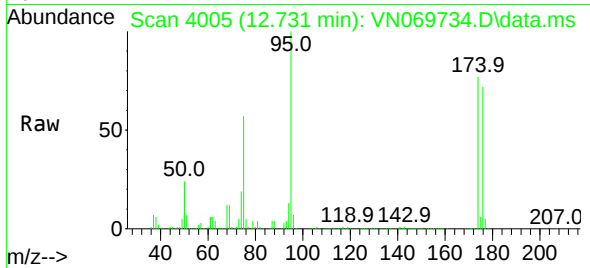




#76  
1,2,3-Trichloropropane  
Concen: 24.126 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

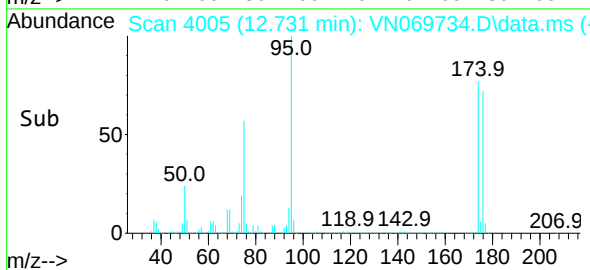
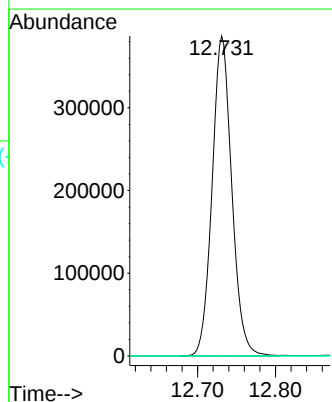
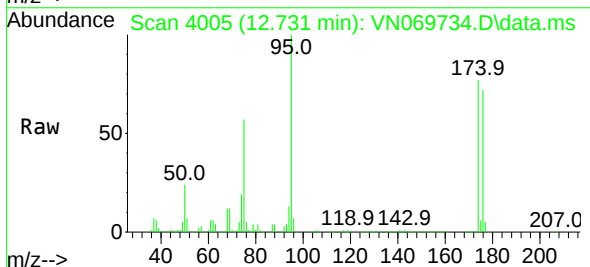
Instrument :  
MSVOA\_N  
ClientSampleId :

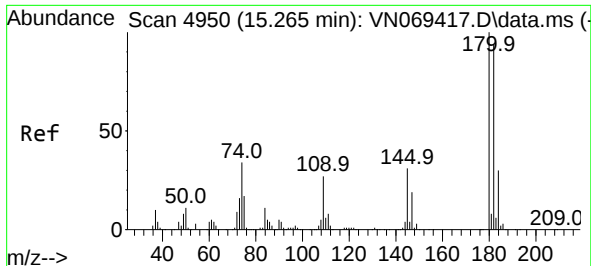
Tgt Ion: 75 Resp: 677098  
Ion Ratio Lower Upper  
75 100  
77 1.1 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.609 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

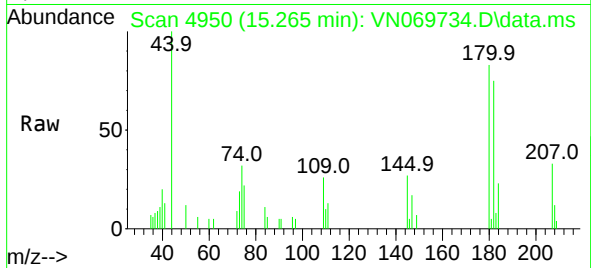
Tgt Ion: 75 Resp: 677098  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#



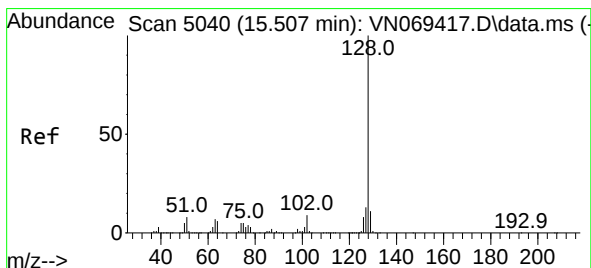
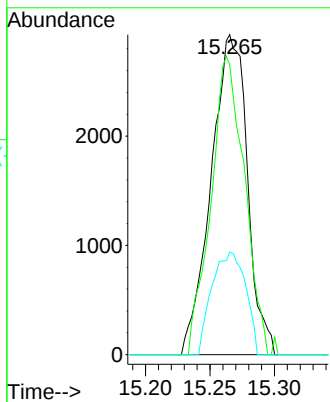
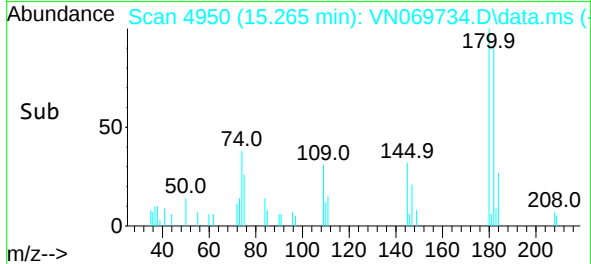


#93  
1,2,4-Trichlorobenzene  
Concen: 3.214 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52

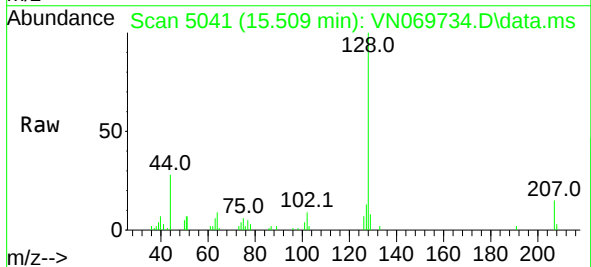
Instrument :  
MSVOA\_N  
ClientSampleId :



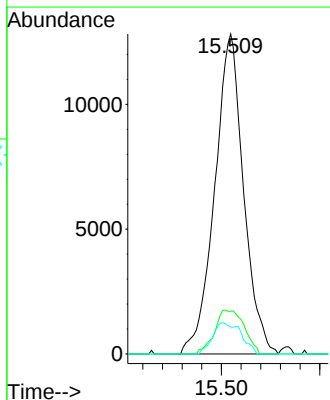
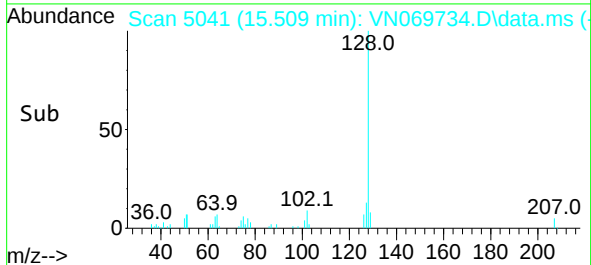
Tgt Ion:180 Resp: 5725  
Ion Ratio Lower Upper  
180 100  
182 86.2 48.3 144.9  
145 29.7 14.5 43.5

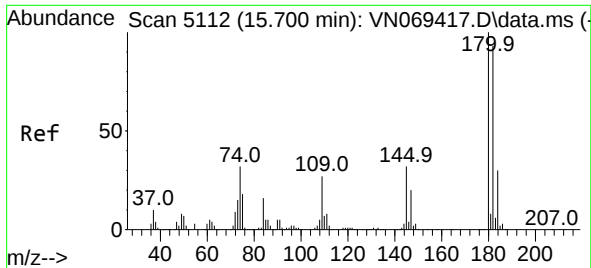


#95  
Naphthalene  
Concen: 4.488 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN069734.D  
Acq: 3 Dec 2021 22:52



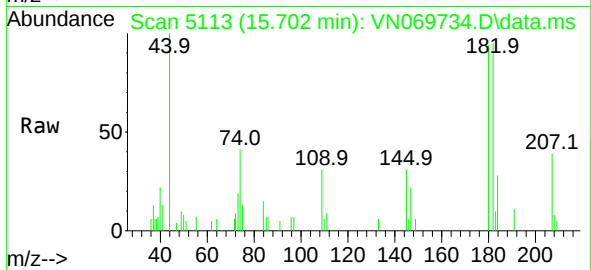
Tgt Ion:128 Resp: 26144  
Ion Ratio Lower Upper  
128 100  
127 14.0 10.5 15.7  
129 9.6 8.7 13.1





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.878 ug/l  
 RT: 15.702 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VN069734.D  
 Acq: 3 Dec 2021 22:52

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 7278  
 Ion Ratio Lower Upper  
 180 100  
 182 85.4 47.4 142.2  
 145 29.9 15.0 45.1

