

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102121\  
 Data File : VN069096.D  
 Acq On : 21 Oct 2021 18:34  
 Operator : JC/MD  
 Sample : M4301-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 211020074-01-VOA

Quant Time: Oct 22 01:34:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.088  | 168  | 325612   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.971  | 114  | 568160   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.747 | 117  | 551695   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.678 | 152  | 214471   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.440  | 65    | 215661   | 50.235   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | = 100.460% |      |
| 35) Dibromofluoromethane    | 8.027  | 113   | 167881   | 50.787   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | = 101.580% |      |
| 50) Toluene-d8              | 10.443 | 98    | 719269   | 54.382   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | = 108.760% |      |
| 62) 4-Bromofluorobenzene    | 12.733 | 95    | 264695   | 53.044   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | = 106.080% |      |

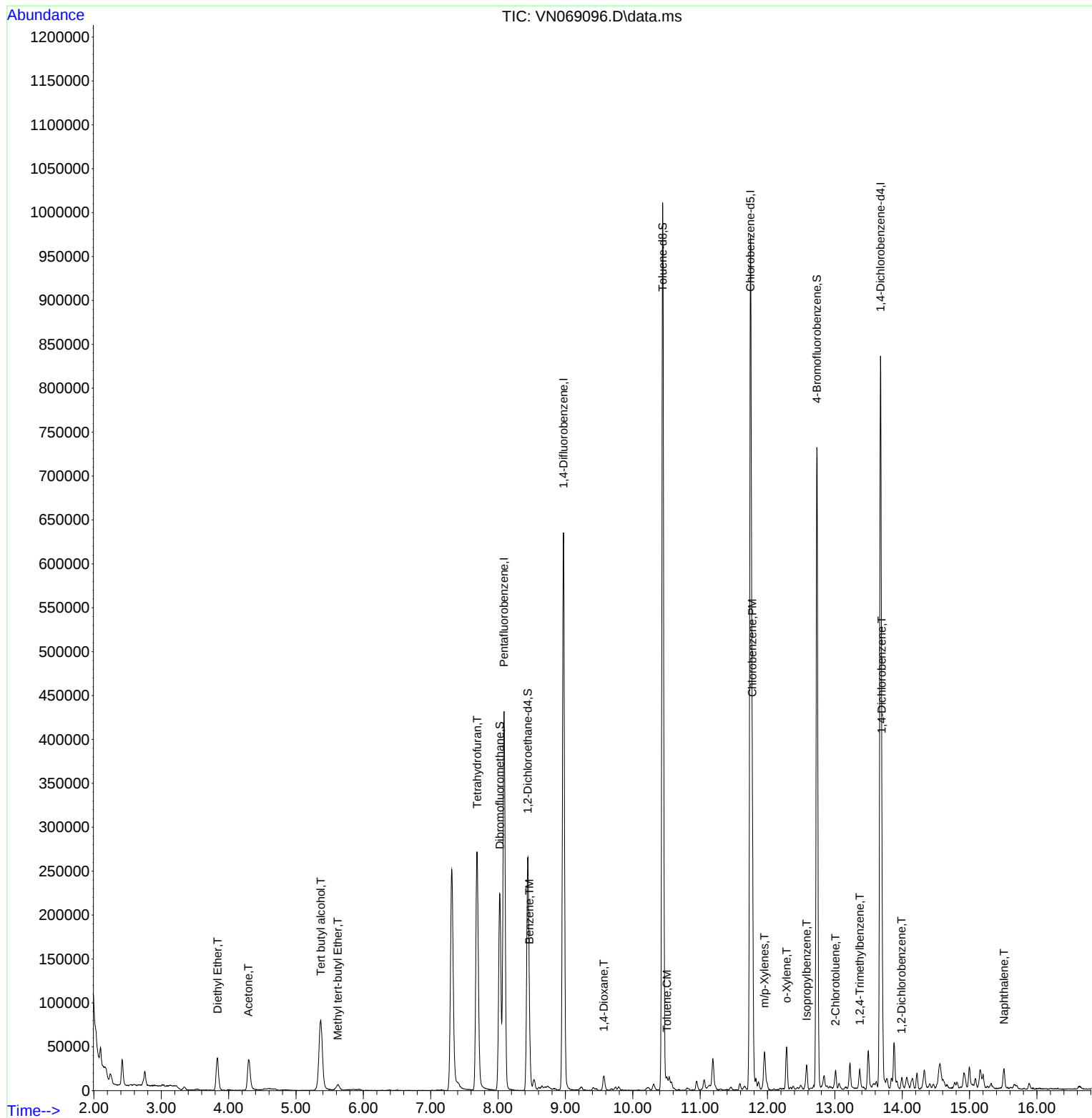
|                             |        |     |        |         |        |    |
|-----------------------------|--------|-----|--------|---------|--------|----|
| Target Compounds            |        |     |        |         | Qvalue |    |
| 8) Diethyl Ether            | 3.835  | 74  | 22483  | 10.648  | ug/l   | 99 |
| 11) Tert butyl alcohol      | 5.366  | 59  | 163233 | 208.083 | ug/l   | 99 |
| 16) Acetone                 | 4.293  | 43  | 11711  | 7.310   | ug/l   | 93 |
| 19) Methyl tert-butyl Ether | 5.621  | 73  | 9494   | 0.810   | ug/l   | 98 |
| 29) Tetrahydrofuran         | 7.689  | 42  | 218045 | 138.756 | ug/l   | 96 |
| 40) Benzene                 | 8.464  | 78  | 36034  | 2.438   | ug/l   | 99 |
| 49) 1,4-Dioxane             | 9.571  | 88  | 13143  | 192.139 | ug/l   | 93 |
| 52) Toluene                 | 10.507 | 92  | 3736   | 0.393   | ug/l   | 98 |
| 65) Chlorobenzene           | 11.773 | 112 | 167071 | 16.003  | ug/l   | 99 |
| 68) m/p-Xylenes             | 11.956 | 106 | 14033  | 1.909   | ug/l   | 94 |
| 69) o-Xylene                | 12.283 | 106 | 12694  | 1.725   | ug/l   | 99 |
| 73) Isopropylbenzene        | 12.581 | 105 | 18463  | 1.034   | ug/l   | 99 |
| 79) 2-Chlorotoluene         | 13.010 | 91  | 11296  | 0.914   | ug/l   | 99 |
| 84) 1,2,4-Trimethylbenzene  | 13.369 | 105 | 11512  | 0.804   | ug/l   | 96 |
| 88) 1,4-Dichlorobenzene     | 13.696 | 146 | 55402  | 8.175   | ug/l   | 96 |
| 91) 1,2-Dichlorobenzene     | 13.991 | 146 | 3890   | 0.586   | ug/l   | 97 |
| 95) Naphthalene             | 15.509 | 128 | 21055  | 5.766   | ug/l   | 99 |

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

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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
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Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

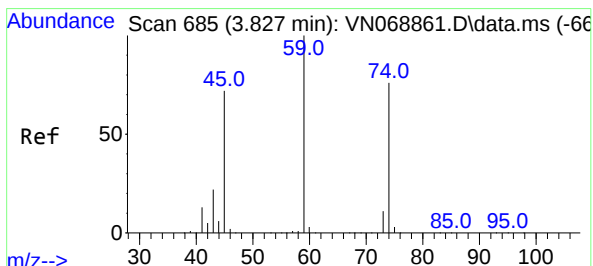
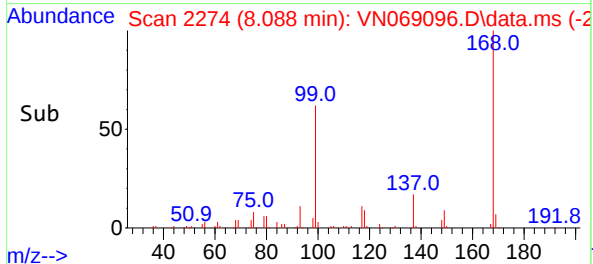
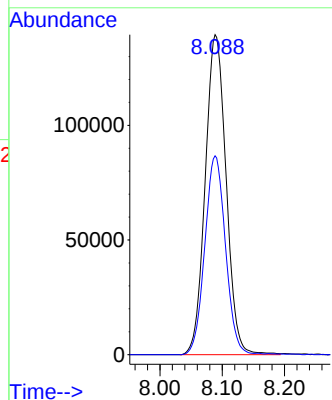
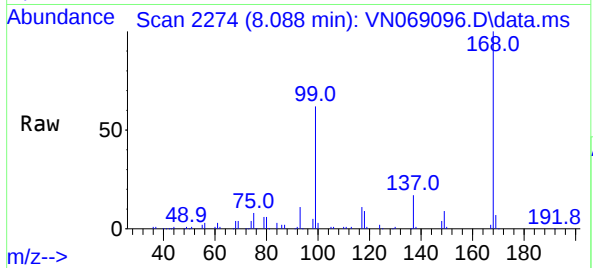




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

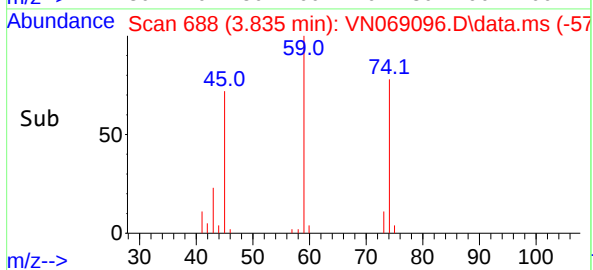
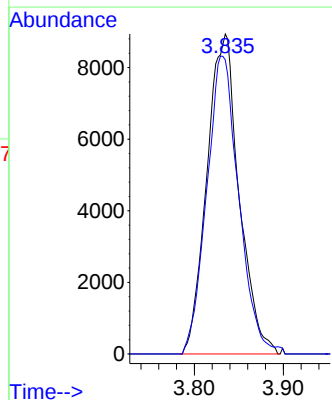
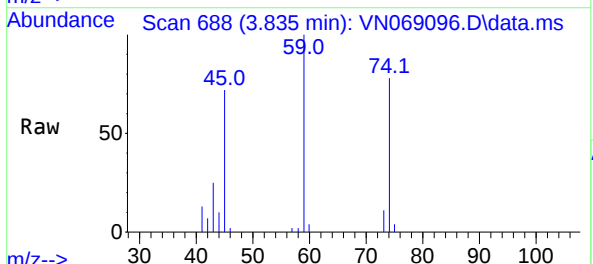
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020074-01-VOA

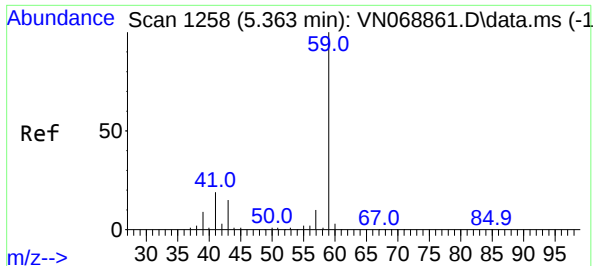
Tgt Ion:168 Resp: 325612  
Ion Ratio Lower Upper  
168 100  
99 62.2 48.9 73.3



#8  
Diethyl Ether  
Concen: 10.648 ug/l  
RT: 3.835 min Scan# 688  
Delta R.T. 0.008 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion: 74 Resp: 22483  
Ion Ratio Lower Upper  
74 100  
45 92.7 47.0 141.2



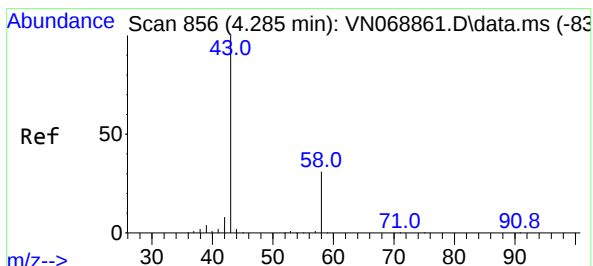
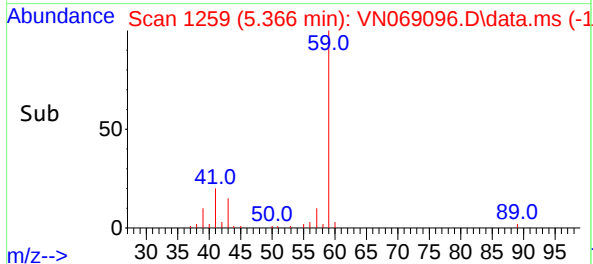
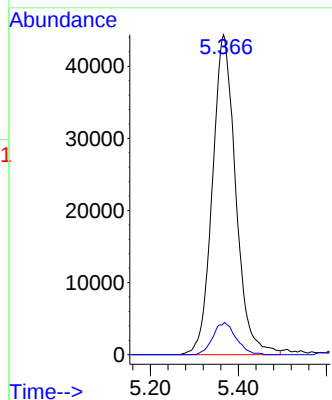
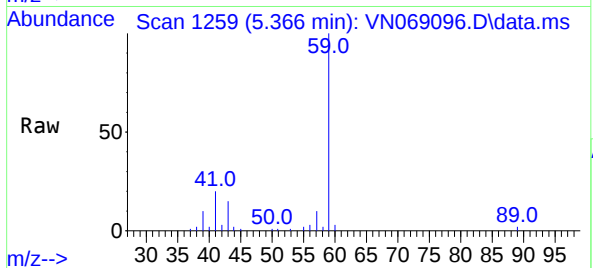


#11

Tert butyl alcohol  
Concen: 208.083 ug/l  
RT: 5.366 min Scan# 1259  
Delta R.T. 0.003 min  
Lab File: VN069096.D  
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Instrument :  
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211020074-01-VOA

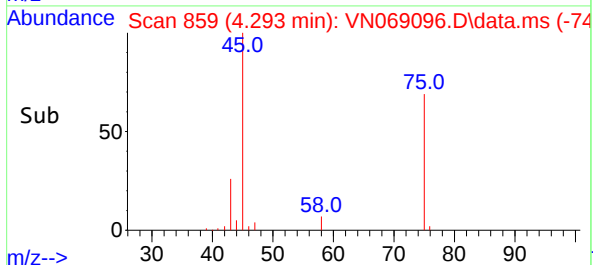
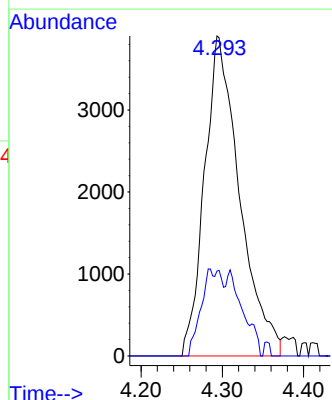
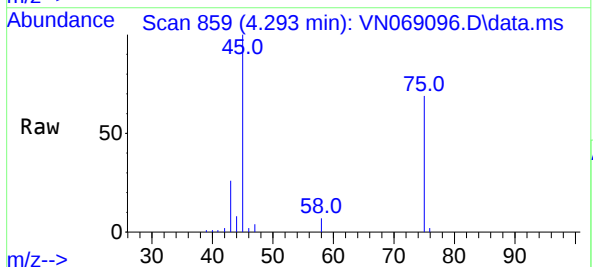
Tgt Ion: 59 Resp: 163233  
Ion Ratio Lower Upper  
59 100  
57 10.0 8.3 12.5

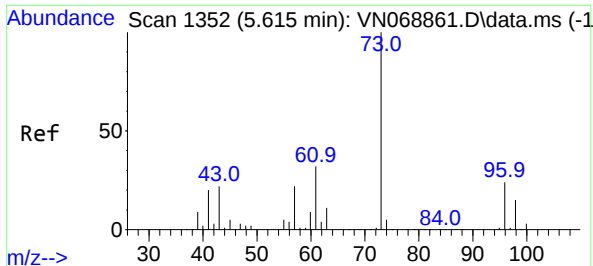


#16

Acetone  
Concen: 7.310 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.008 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion: 43 Resp: 11711  
Ion Ratio Lower Upper  
43 100  
58 26.5 24.5 36.7

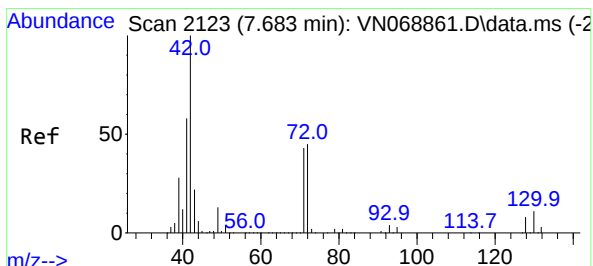
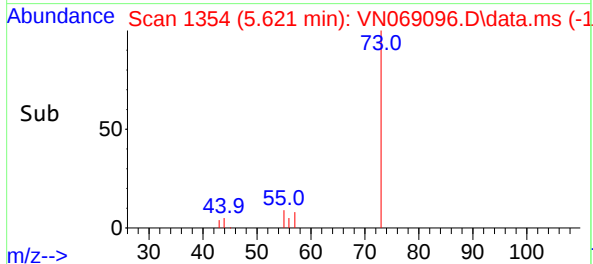
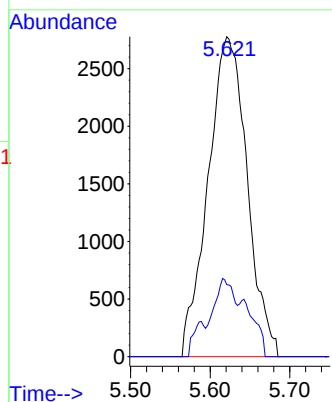
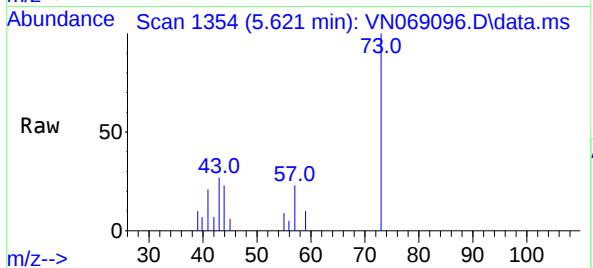




#19  
Methyl tert-butyl Ether  
Concen: 0.810 ug/l  
RT: 5.621 min Scan# 1354  
Delta R.T. 0.005 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

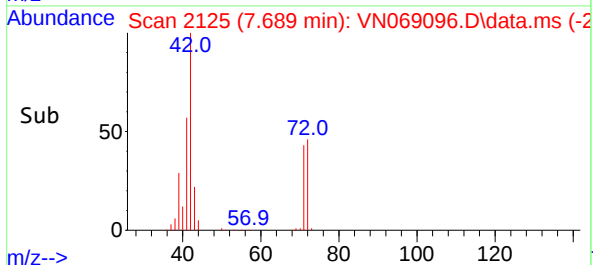
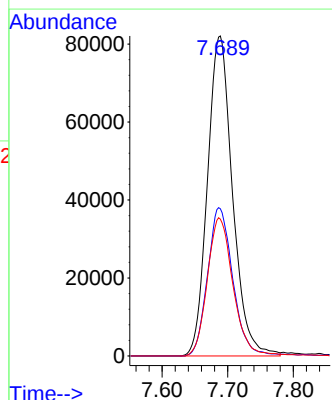
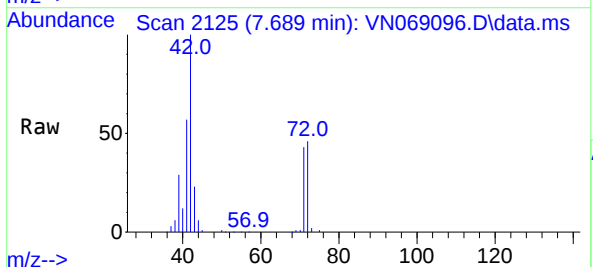
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020074-01-VOA

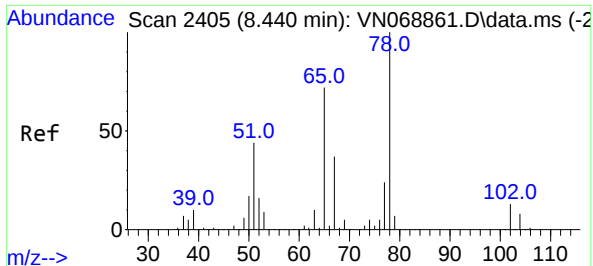
Tgt Ion: 73 Resp: 9494  
Ion Ratio Lower Upper  
73 100  
57 22.5 17.3 25.9



#29  
Tetrahydrofuran  
Concen: 138.756 ug/l  
RT: 7.689 min Scan# 2125  
Delta R.T. 0.005 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion: 42 Resp: 218045  
Ion Ratio Lower Upper  
42 100  
72 46.6 35.4 53.2  
71 44.4 33.8 50.6



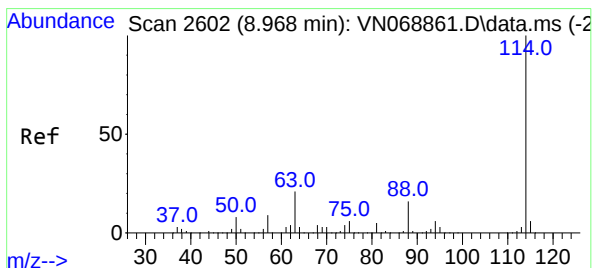
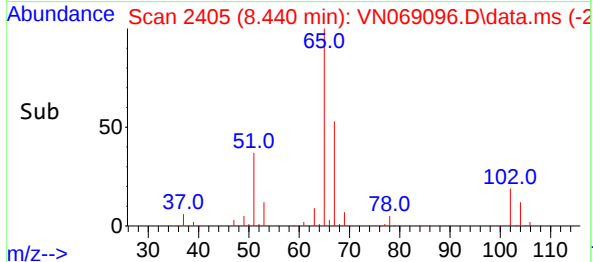
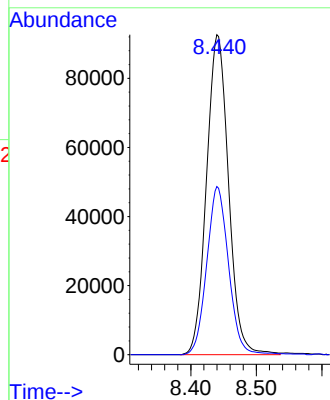
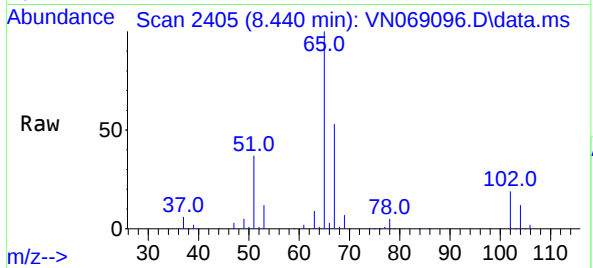


#33

1,2-Dichloroethane-d4  
Concen: 50.235 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
211020074-01-VOA

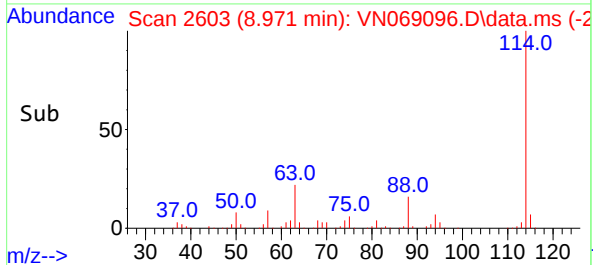
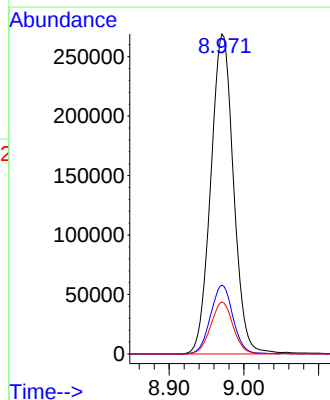
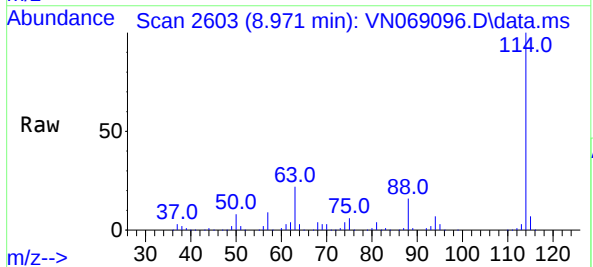
Tgt Ion: 65 Resp: 215661  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 103.8

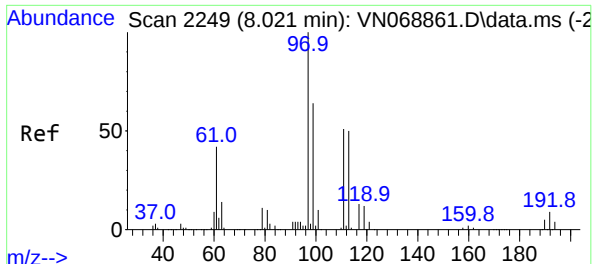


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion: 114 Resp: 568160  
Ion Ratio Lower Upper  
114 100  
63 21.5 0.0 42.6  
88 16.2 0.0 32.0

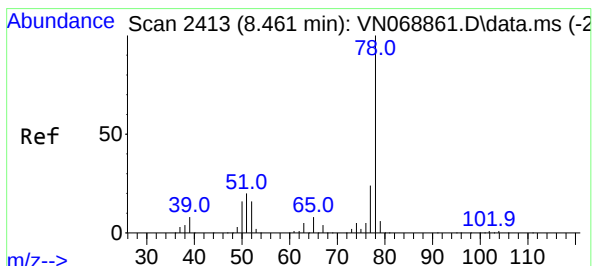
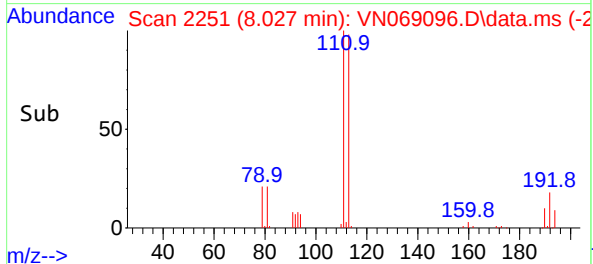
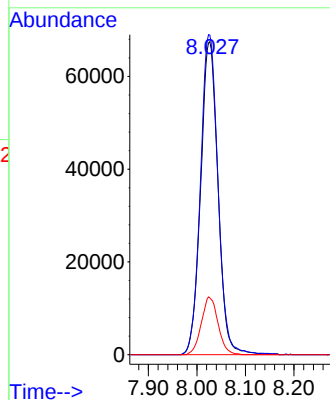
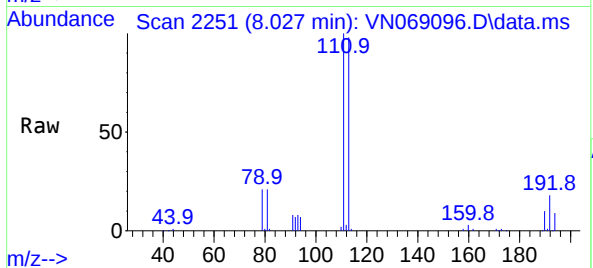




#35  
Dibromofluoromethane  
Concen: 50.787 ug/l  
RT: 8.027 min Scan# 2251  
Delta R.T. 0.005 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

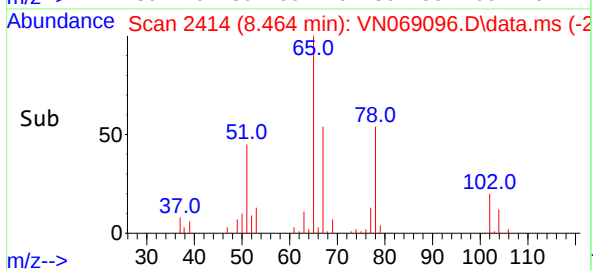
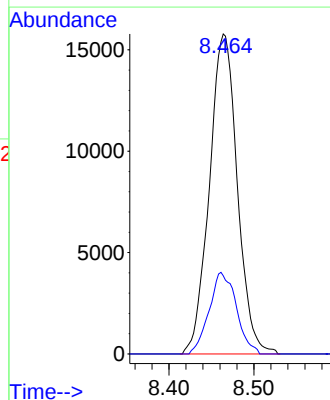
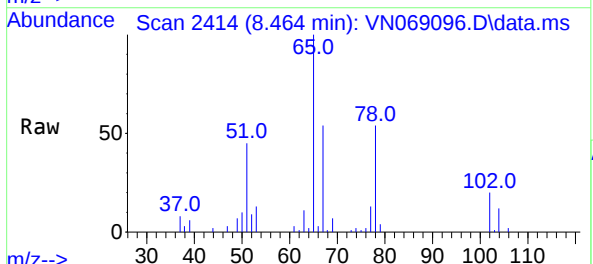
Instrument :  
MSVOA\_N  
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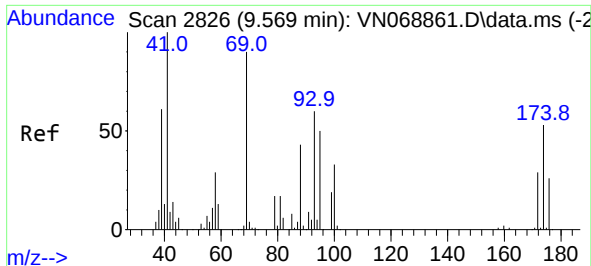
Tgt Ion:113 Resp: 167881  
Ion Ratio Lower Upper  
113 100  
111 102.8 83.2 124.8  
192 17.8 15.0 22.4



#40  
Benzene  
Concen: 2.438 ug/l  
RT: 8.464 min Scan# 2414  
Delta R.T. 0.003 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion: 78 Resp: 36034  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.1 28.7

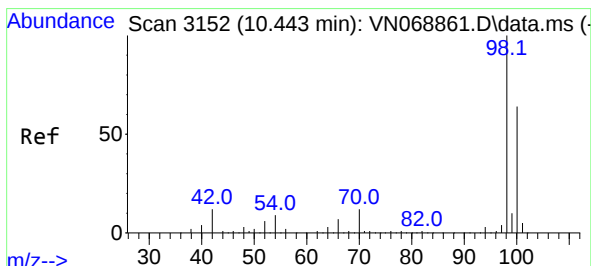
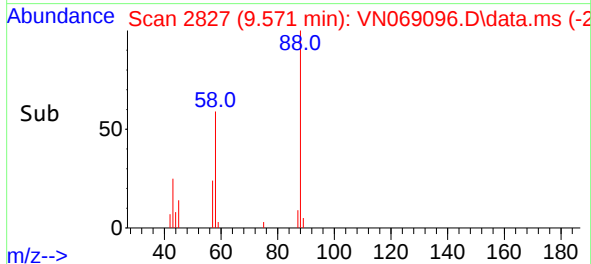
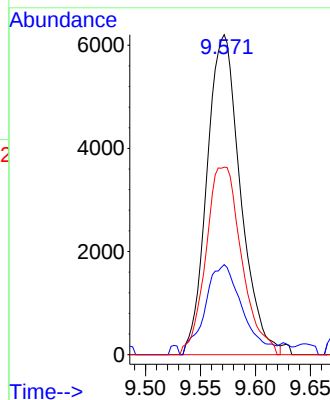
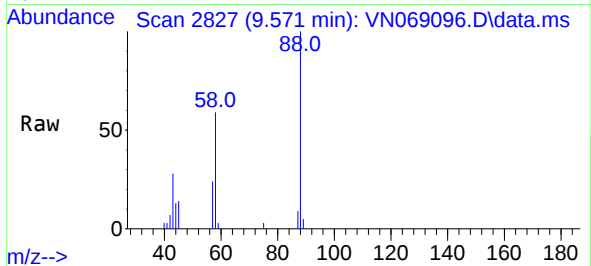




#49  
1,4-Dioxane  
Concen: 192.139 ug/l  
RT: 9.571 min Scan# 2827  
Delta R.T. 0.002 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

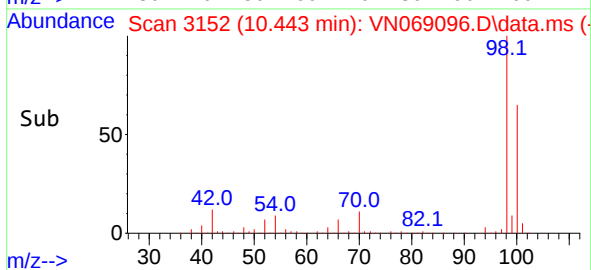
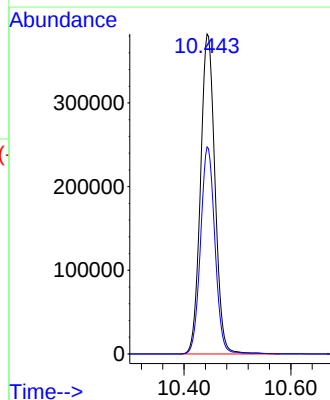
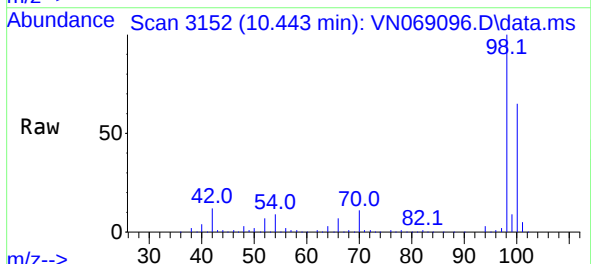
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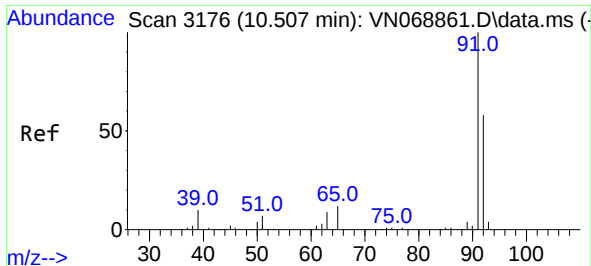
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Ion Ratio Lower Upper  
88 100  
43 31.4 24.9 37.3  
58 62.6 56.9 85.3



#50  
Toluene-d8  
Concen: 54.382 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion: 98 Resp: 719269  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.5 77.3

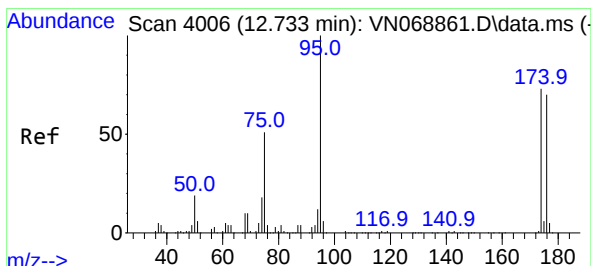
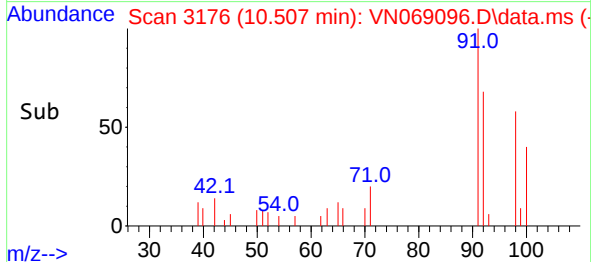
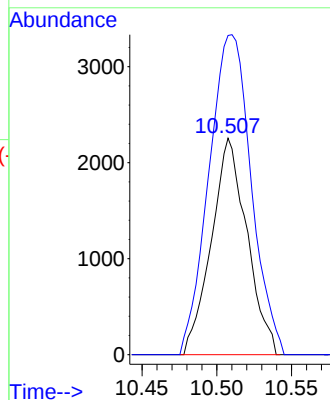
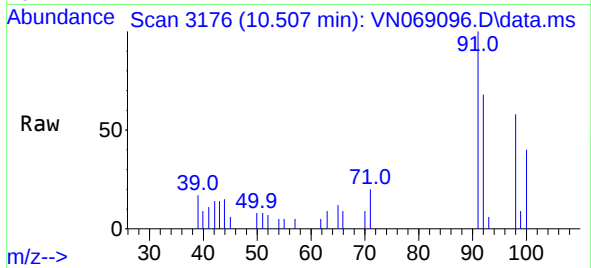




#52  
Toluene  
Concen: 0.393 ug/l  
RT: 10.507 min Scan# 3176  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

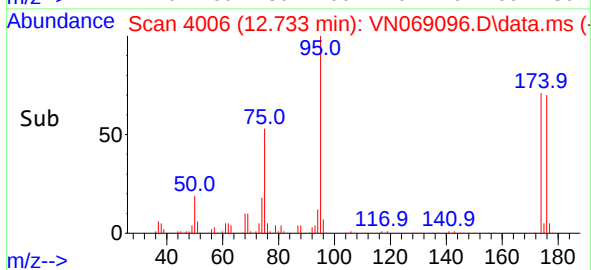
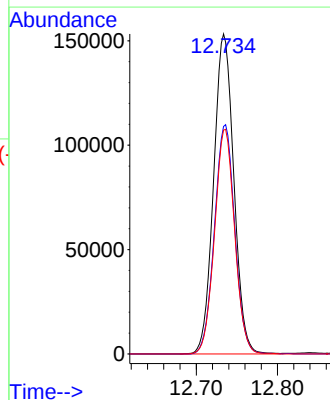
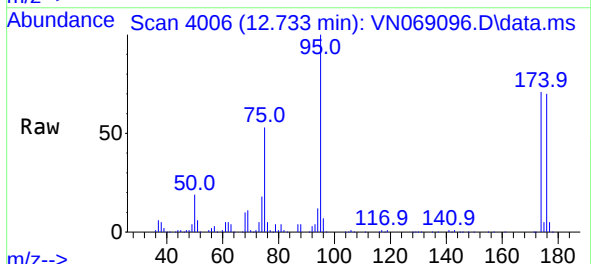
Instrument :  
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ClientSampleId :  
211020074-01-VOA

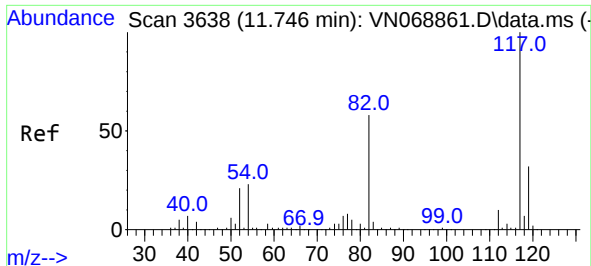
Tgt Ion: 92 Resp: 3736  
Ion Ratio Lower Upper  
92 100  
91 175.9 138.5 207.7



#62  
4-Bromofluorobenzene  
Concen: 53.044 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion: 95 Resp: 264695  
Ion Ratio Lower Upper  
95 100  
174 72.1 0.0 144.8  
176 69.8 0.0 140.0

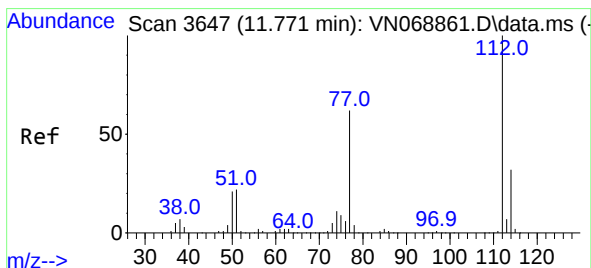
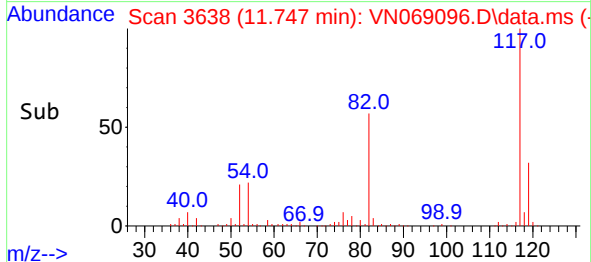
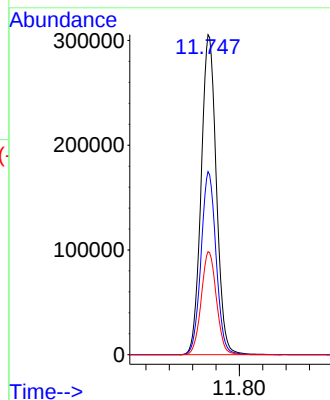
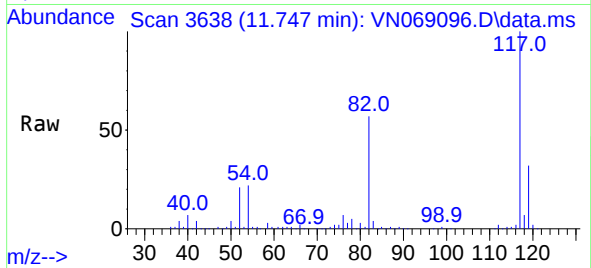




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

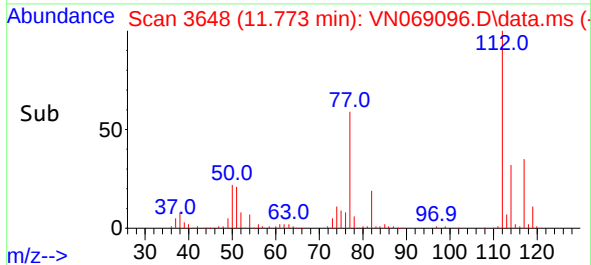
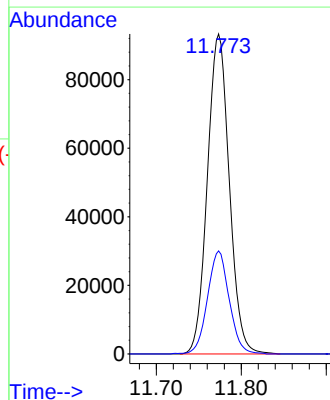
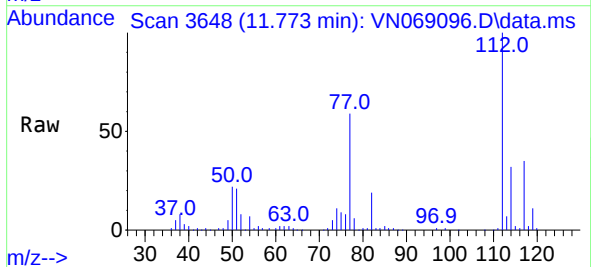
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020074-01-VOA

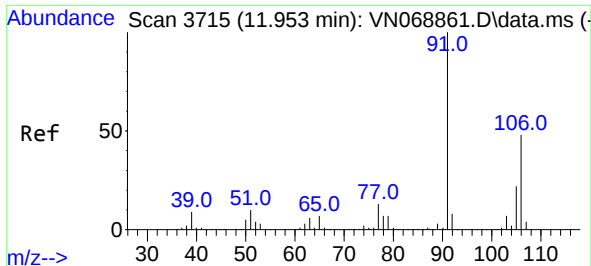
Tgt Ion:117 Resp: 551695  
Ion Ratio Lower Upper  
117 100  
82 57.2 46.4 69.6  
119 32.2 26.0 39.0



#65  
Chlorobenzene  
Concen: 16.003 ug/l  
RT: 11.773 min Scan# 3648  
Delta R.T. 0.003 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion:112 Resp: 167071  
Ion Ratio Lower Upper  
112 100  
114 32.2 25.5 38.3

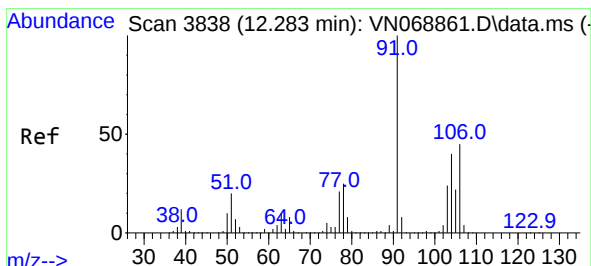
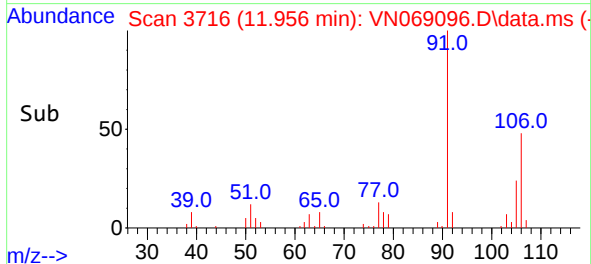
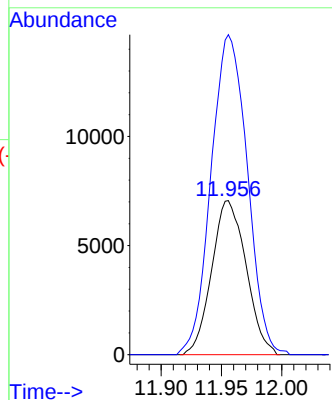
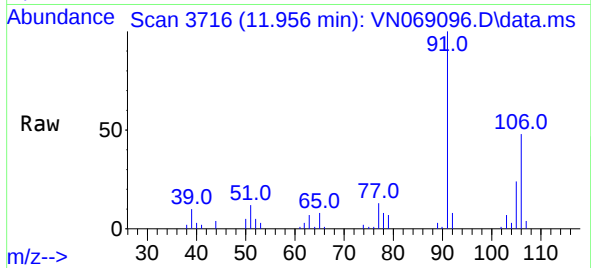




#68  
m/p-Xylenes  
Concen: 1.909 ug/l  
RT: 11.956 min Scan# 3716  
Delta R.T. 0.003 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

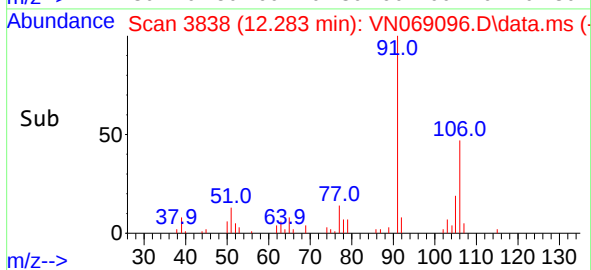
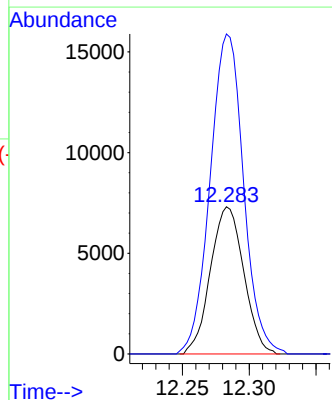
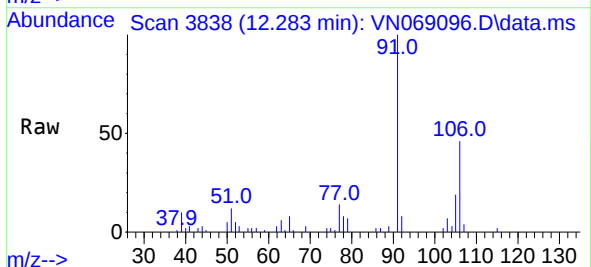
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020074-01-VOA

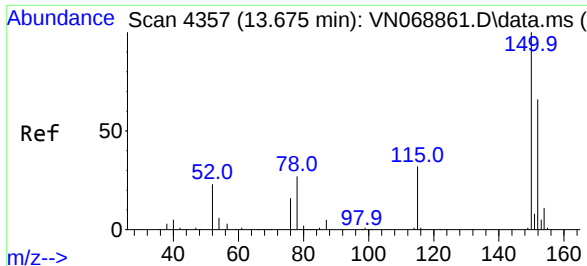
Tgt Ion:106 Resp: 14033  
Ion Ratio Lower Upper  
106 100  
91 218.4 166.8 250.2



#69  
o-Xylene  
Concen: 1.725 ug/l  
RT: 12.283 min Scan# 3838  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion:106 Resp: 12694  
Ion Ratio Lower Upper  
106 100  
91 217.8 109.6 328.6

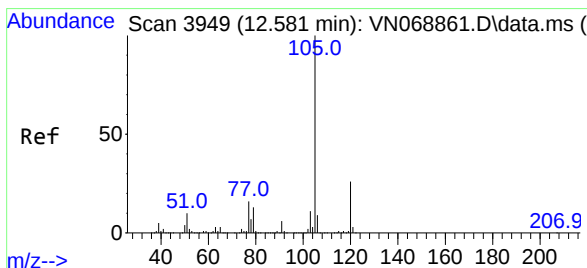
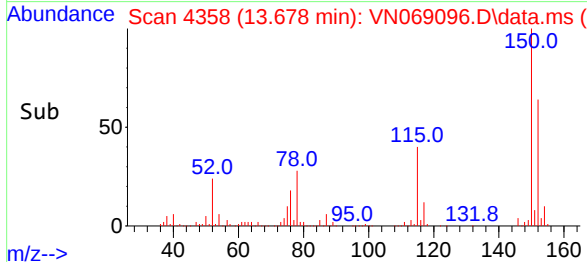
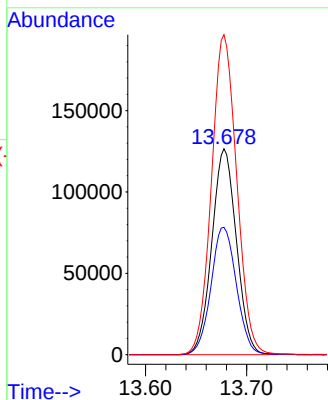
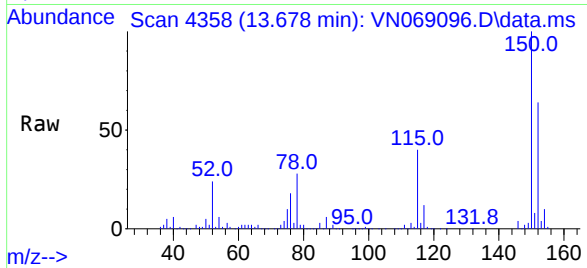




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

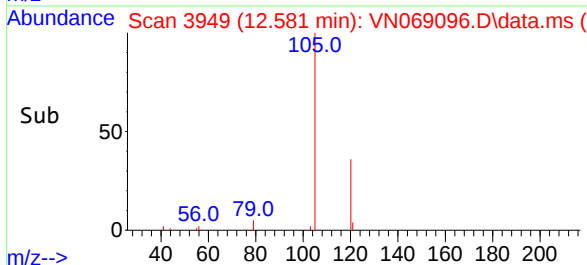
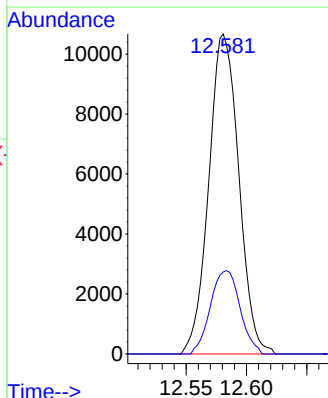
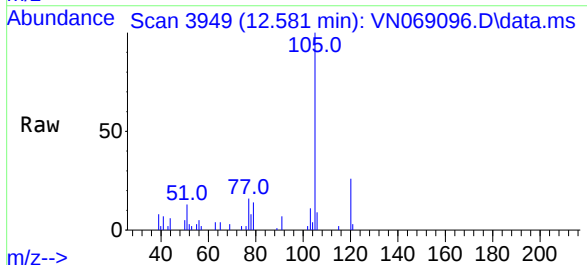
Instrument :  
MSVOA\_N  
ClientSampleId :  
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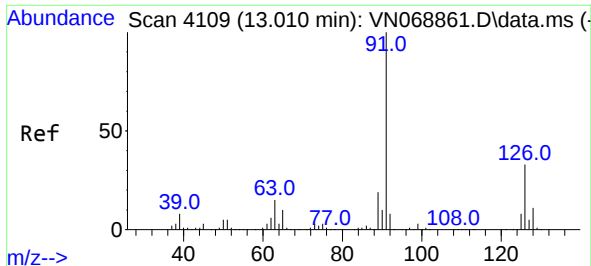
Tgt Ion:152 Resp: 214471  
Ion Ratio Lower Upper  
152 100  
115 64.0 31.4 94.3  
150 159.4 0.0 351.0



#73  
Isopropylbenzene  
Concen: 1.034 ug/l  
RT: 12.581 min Scan# 3949  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Tgt Ion:105 Resp: 18463  
Ion Ratio Lower Upper  
105 100  
120 25.7 13.1 39.3

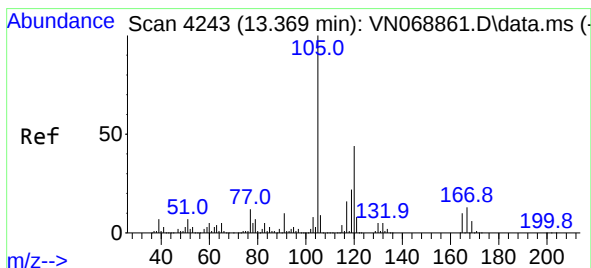
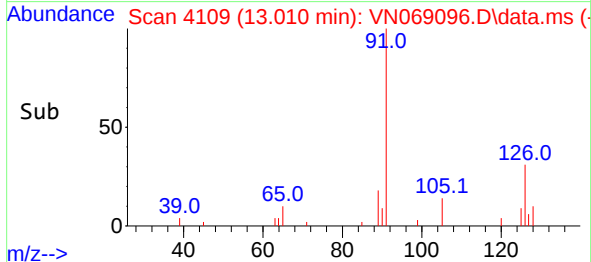
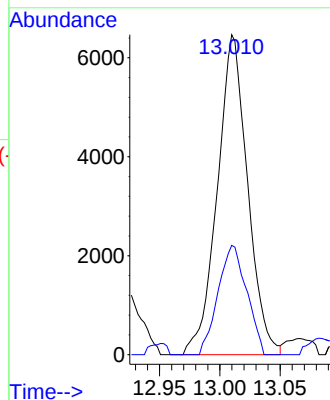
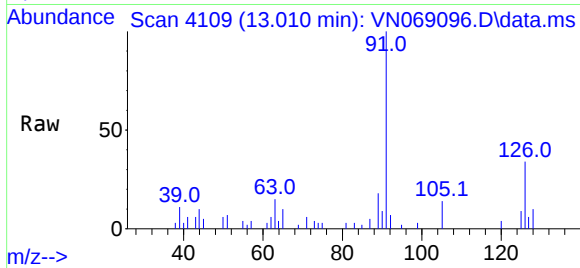




#79  
2-Chlorotoluene  
Concen: 0.914 ug/l  
RT: 13.010 min Scan# 4109  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

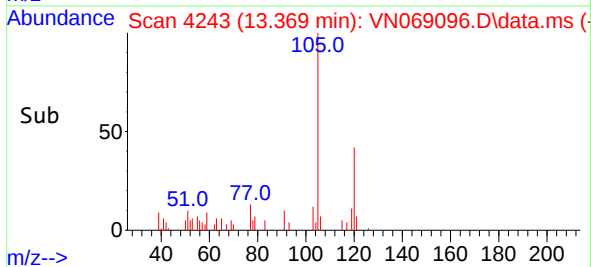
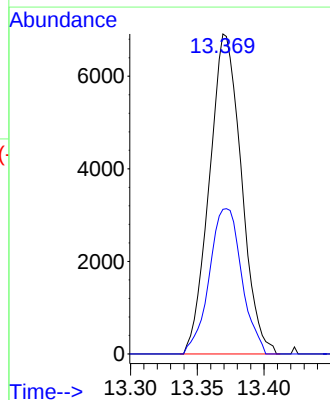
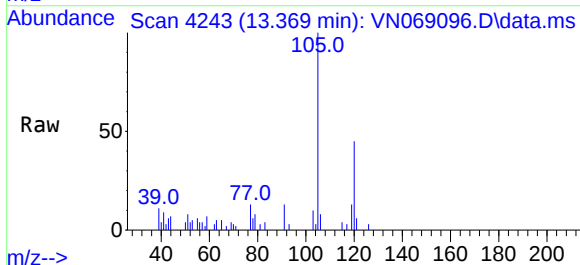
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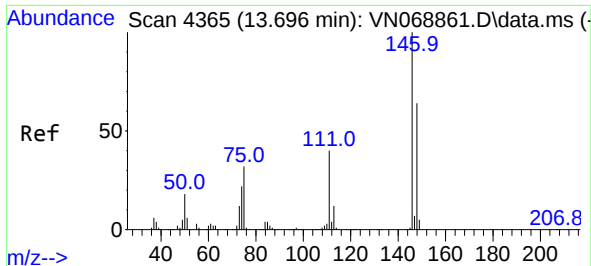
Tgt Ion: 91 Resp: 11296  
Ion Ratio Lower Upper  
91 100  
126 32.3 16.4 49.4



#84  
1,2,4-Trimethylbenzene  
Concen: 0.804 ug/l  
RT: 13.369 min Scan# 4243  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

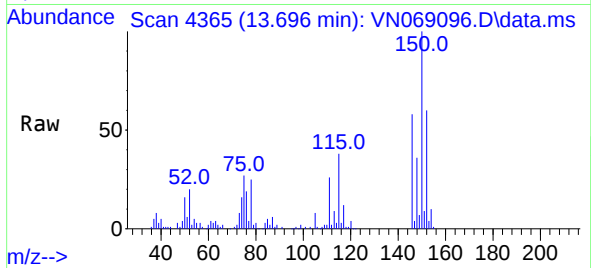
Tgt Ion: 105 Resp: 11512  
Ion Ratio Lower Upper  
105 100  
120 46.1 21.9 65.5



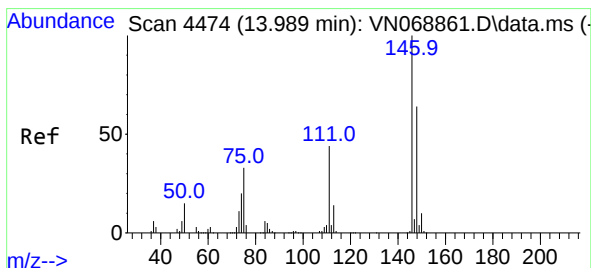
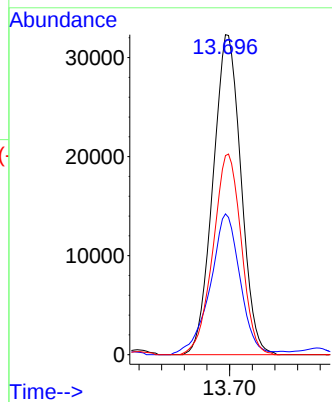
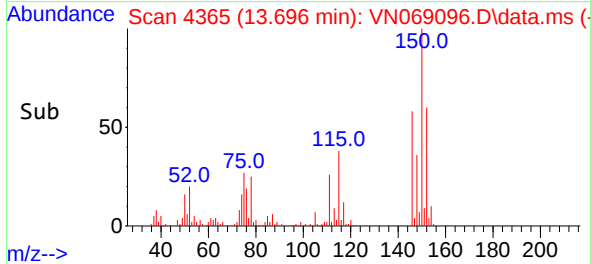


#88  
1,4-Dichlorobenzene  
Concen: 8.175 ug/l  
RT: 13.696 min Scan# 4365  
Delta R.T. 0.000 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

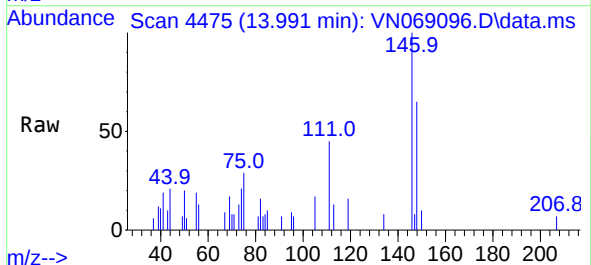
Instrument :  
MSVOA\_N  
ClientSampleId :  
211020074-01-VOA



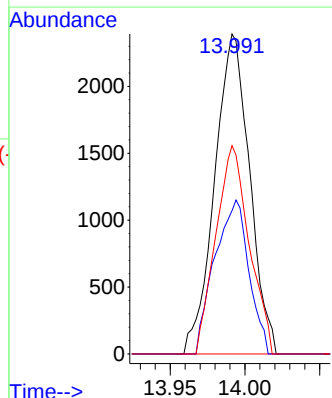
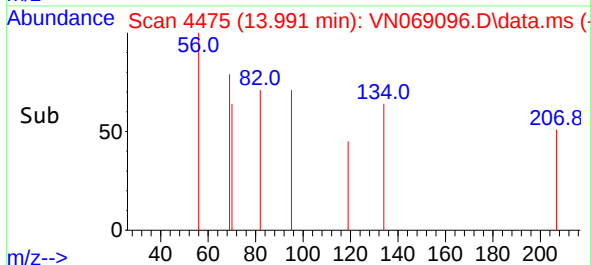
Tgt Ion:146 Resp: 55402  
Ion Ratio Lower Upper  
146 100  
111 47.0 20.6 61.8  
148 63.4 32.1 96.5

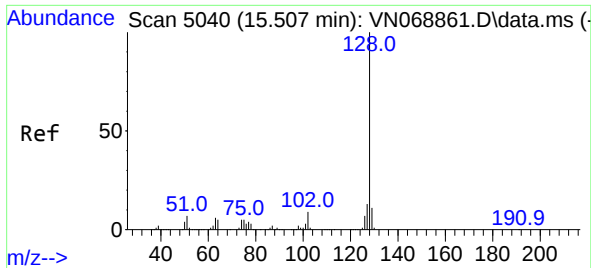


#91  
1,2-Dichlorobenzene  
Concen: 0.586 ug/l  
RT: 13.991 min Scan# 4475  
Delta R.T. 0.003 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34



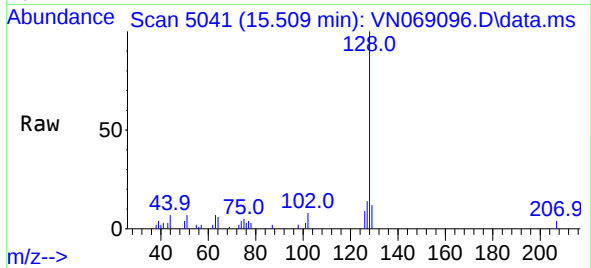
Tgt Ion:146 Resp: 3890  
Ion Ratio Lower Upper  
146 100  
111 46.9 22.0 66.0  
148 62.1 32.1 96.5





#95  
Naphthalene  
Concen: 5.766 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN069096.D  
Acq: 21 Oct 2021 18:34

Instrument :  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 21055 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.4  | 10.5  | 15.7  |
| 129      | 11.7  | 8.9   | 13.3  |

