

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121021\  
 Data File : VN069970.D  
 Acq On : 10 Dec 2021 20:14  
 Operator : JC/MD  
 Sample : M4969-09  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RW-1A

Quant Time: Dec 11 05:24:42 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

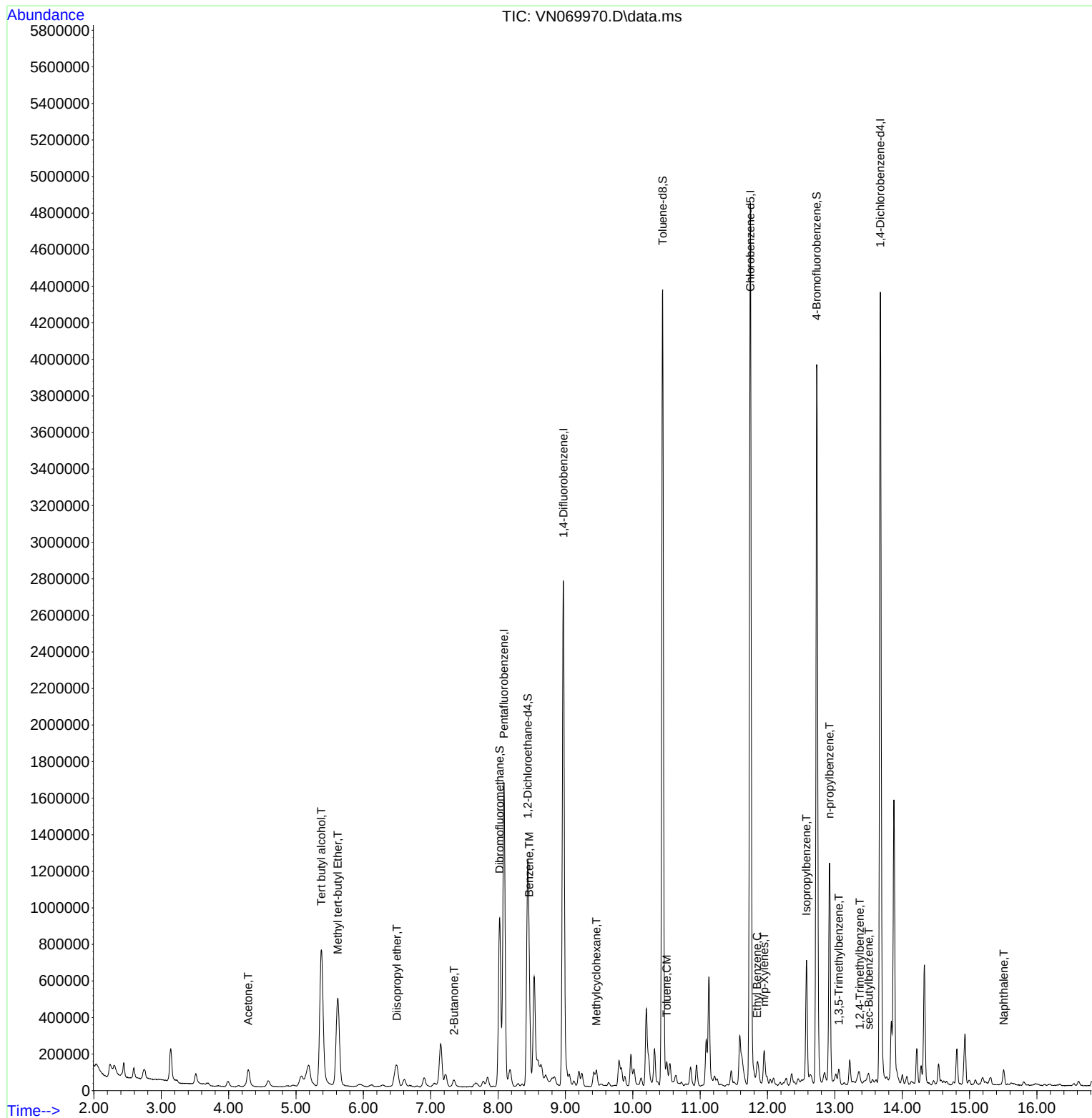
| Compound                    | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                       |                |      |                     |         |        |          |
| Internal Standards          |                |      |                     |         |        |          |
| 1) Pentafluorobenzene       | 8.088          | 168  | 1165431             | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.971          | 114  | 2207654             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.746         | 117  | 2568559             | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.675         | 152  | 1117847             | 50.000  | ug/l   | 0.00     |
|                             |                |      |                     |         |        |          |
| System Monitoring Compounds |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.440          | 65   | 929488              | 51.655  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = 103.300% |         |        |          |
| 35) Dibromofluoromethane    | 8.024          | 113  | 678988              | 49.101  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = 98.200%  |         |        |          |
| 50) Toluene-d8              | 10.443         | 98   | 2931680             | 52.799  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = 105.600% |         |        |          |
| 62) 4-Bromofluorobenzene    | 12.731         | 95   | 1289719             | 64.116  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = 128.240% |         |        |          |
|                             |                |      |                     |         |        |          |
| Target Compounds            |                |      |                     |         | Qvalue |          |
| 11) Tert butyl alcohol      | 5.377          | 59   | 1357687             | 399.161 | ug/l   | 99       |
| 16) Acetone                 | 4.291          | 43   | 181926              | 16.807  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether | 5.618          | 73   | 674296              | 15.622  | ug/l # | 82       |
| 22) Diisopropyl ether       | 6.498          | 45   | 126519              | 2.588   | ug/l   | 93       |
| 25) 2-Butanone              | 7.345          | 43   | 62777               | 4.268   | ug/l # | 85       |
| 39) Methylcyclohexane       | 9.459          | 83   | 33197               | 1.328   | ug/l   | 94       |
| 40) Benzene                 | 8.461          | 78   | 408117              | 6.353   | ug/l   | 99       |
| 52) Toluene                 | 10.505         | 92   | 41163               | 1.050   | ug/l   | 97       |
| 67) Ethyl Benzene           | 11.846         | 91   | 49883               | 0.527   | ug/l   | 97       |
| 68) m/p-Xylenes             | 11.953         | 106  | 55522               | 1.611   | ug/l   | 95       |
| 73) Isopropylbenzene        | 12.578         | 105  | 429265              | 4.316   | ug/l   | 99       |
| 78) n-propylbenzene         | 12.921         | 91   | 984288              | 8.894   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene  | 13.061         | 105  | 23574               | 0.294   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.369         | 105  | 18065               | 0.237   | ug/l   | 87       |
| 85) sec-Butylbenzene        | 13.503         | 105  | 29119               | 0.303   | ug/l # | 70       |
| 95) Naphthalene             | 15.507         | 128  | 75044               | 5.249   | ug/l   | 96       |
| -----                       |                |      |                     |         |        |          |

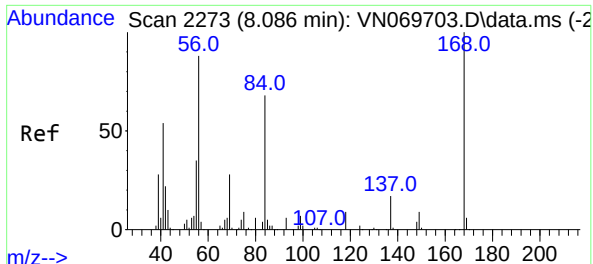
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121021\  
Data File : VN069970.D  
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Sample : M4969-09  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

Quant Time: Dec 11 05:24:42 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

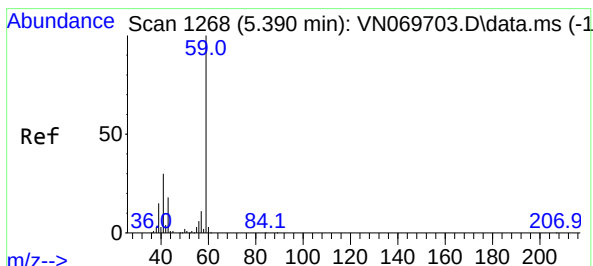
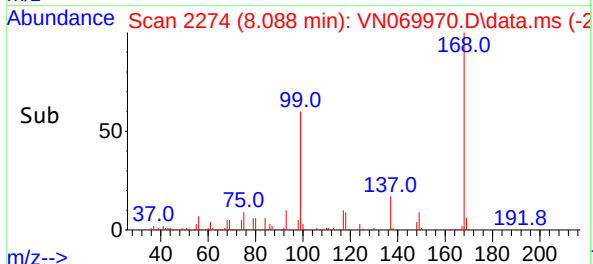
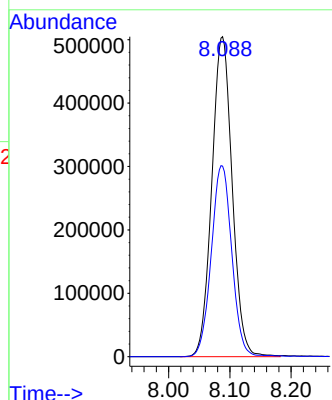
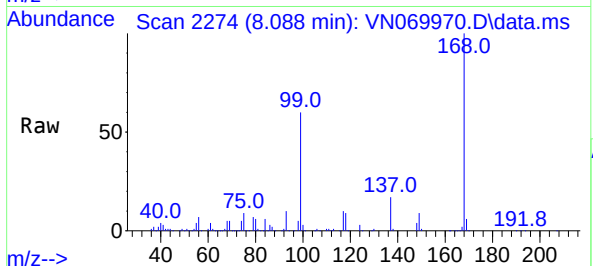




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

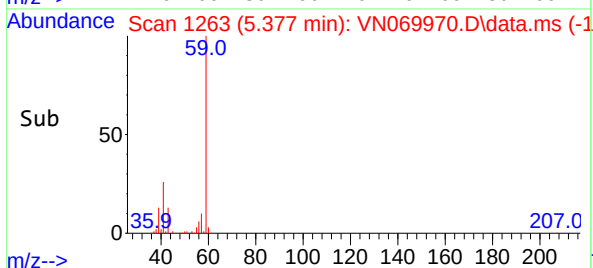
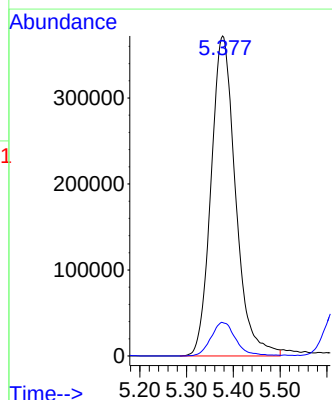
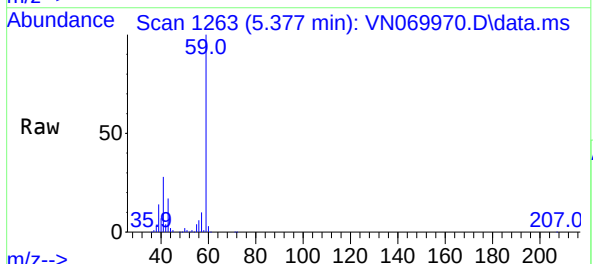
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

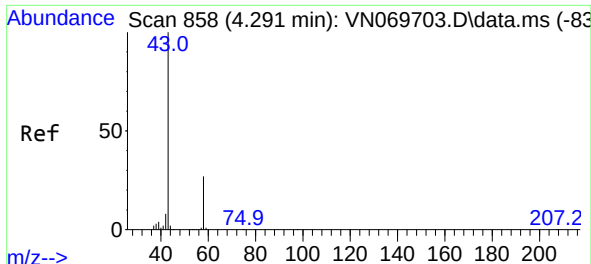
Tgt Ion:168 Resp: 1165431  
Ion Ratio Lower Upper  
168 100  
99 59.6 41.3 61.9



#11  
Tert butyl alcohol  
Concen: 399.161 ug/l  
RT: 5.377 min Scan# 1263  
Delta R.T. -0.013 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion: 59 Resp: 1357687  
Ion Ratio Lower Upper  
59 100  
57 10.6 8.7 13.1

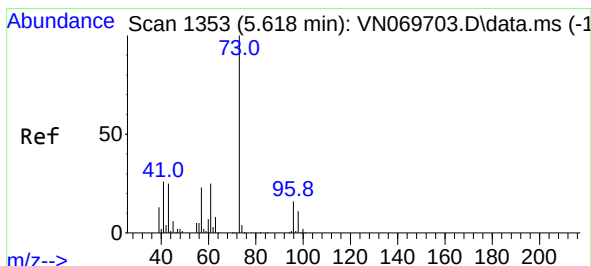
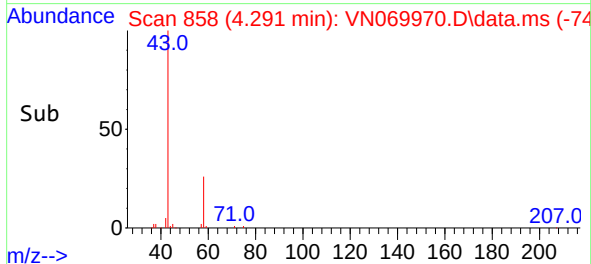
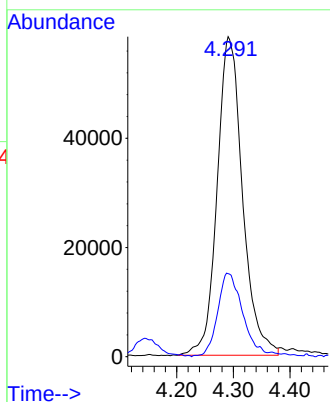
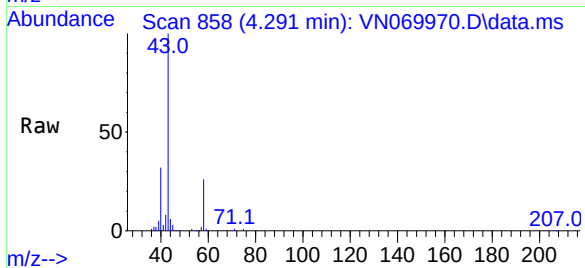




#16  
Acetone  
Concen: 16.807 ug/l  
RT: 4.291 min Scan# 858  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

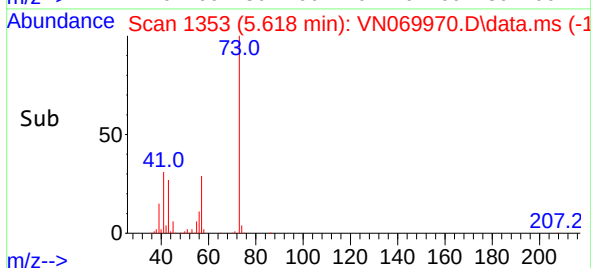
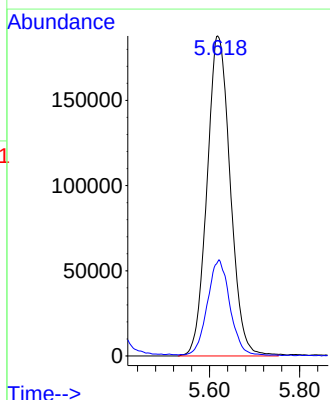
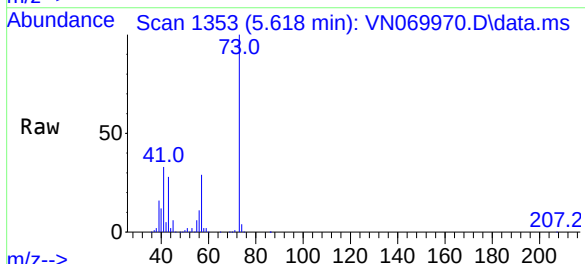
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

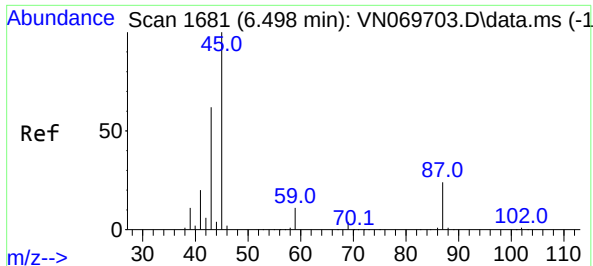
Tgt Ion: 43 Resp: 181926  
Ion Ratio Lower Upper  
43 100  
58 25.5 23.1 34.7



#19  
Methyl tert-butyl Ether  
Concen: 15.622 ug/l  
RT: 5.618 min Scan# 1353  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion: 73 Resp: 674296  
Ion Ratio Lower Upper  
73 100  
57 29.2 16.8 25.2#



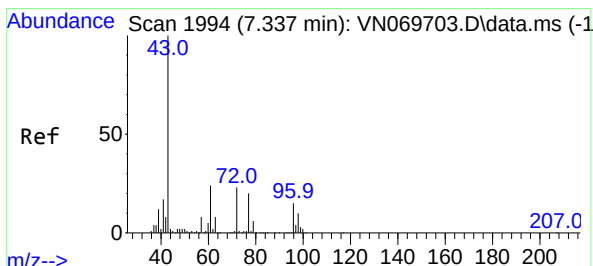
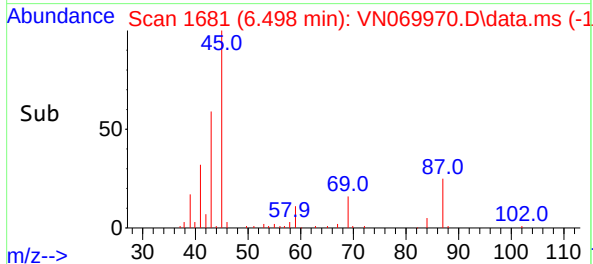
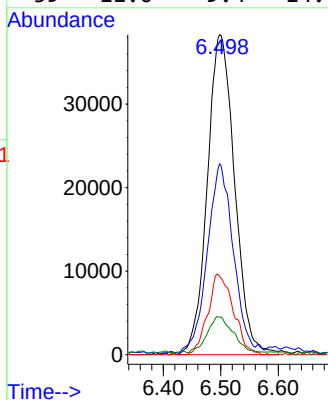
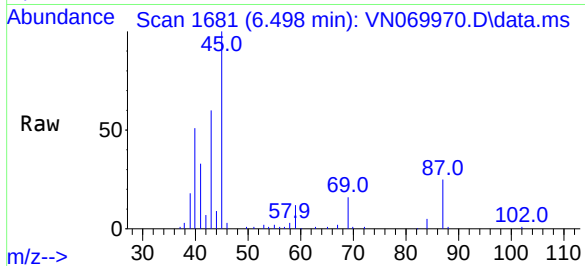


#22  
Diisopropyl ether  
Concen: 2.588 ug/l  
RT: 6.498 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

Tgt Ion: 45 Resp: 126519

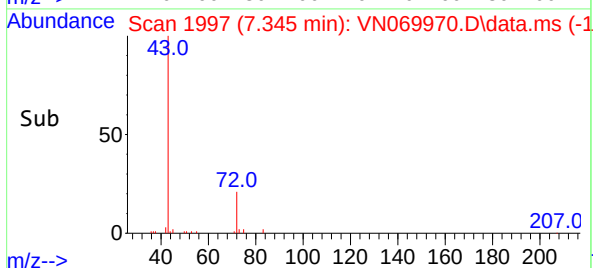
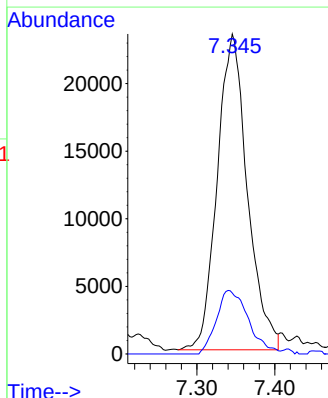
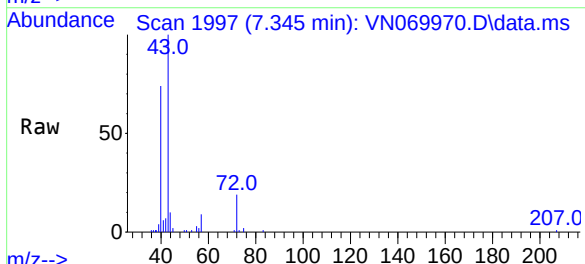
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 59.0  | 51.7  | 77.5  |
| 87  | 24.5  | 23.2  | 34.8  |
| 59  | 11.0  | 9.4   | 14.0  |

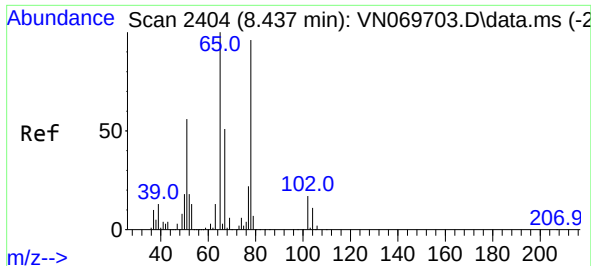


#25  
2-Butanone  
Concen: 4.268 ug/l  
RT: 7.345 min Scan# 1997  
Delta R.T. 0.008 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion: 43 Resp: 62777

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 19.3  | 21.7  | 32.5# |





#33

1,2-Dichloroethane-d4

Concen: 51.655 ug/l

RT: 8.440 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN069970.D

Acq: 10 Dec 2021 20:14

Instrument :

MSVOA\_N

ClientSampleId :

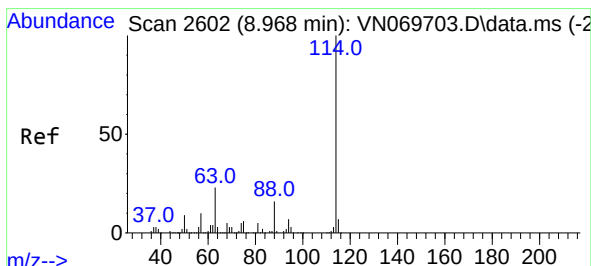
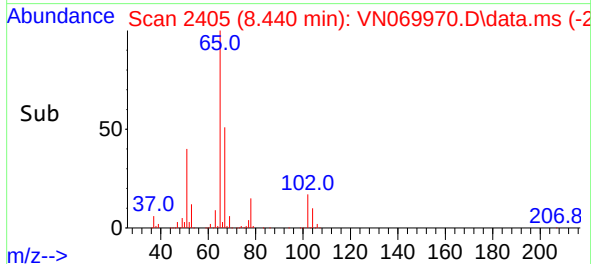
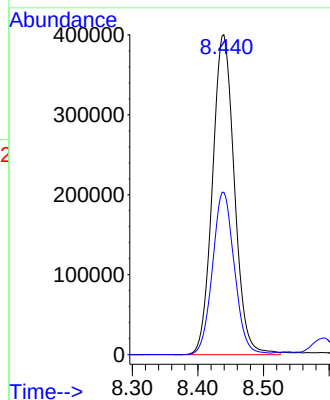
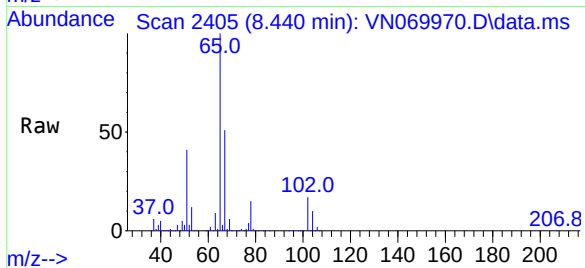
RW-1A

Tgt Ion: 65 Resp: 929488

Ion Ratio Lower Upper

65 100

67 50.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN069970.D

Acq: 10 Dec 2021 20:14

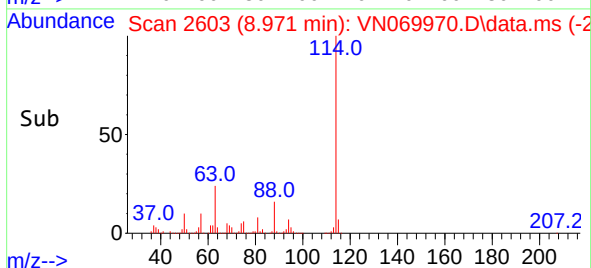
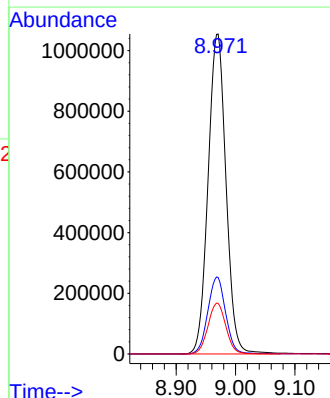
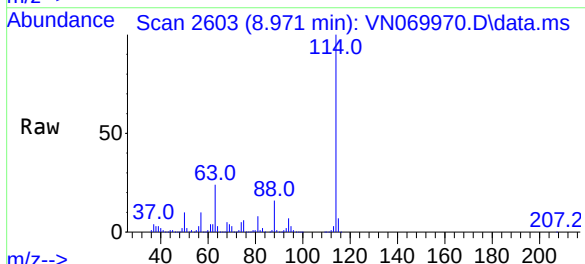
Tgt Ion: 114 Resp: 2207654

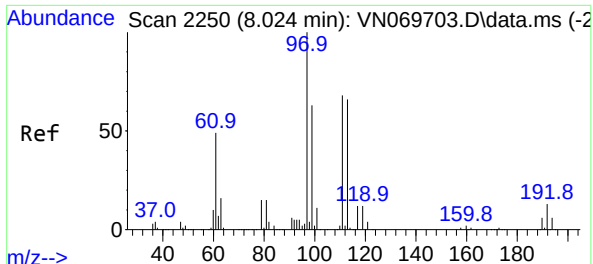
Ion Ratio Lower Upper

114 100

63 23.9 0.0 37.8

88 15.8 0.0 27.4

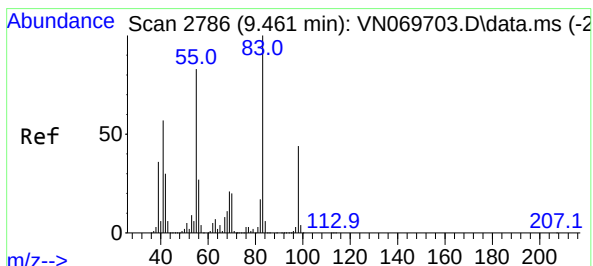
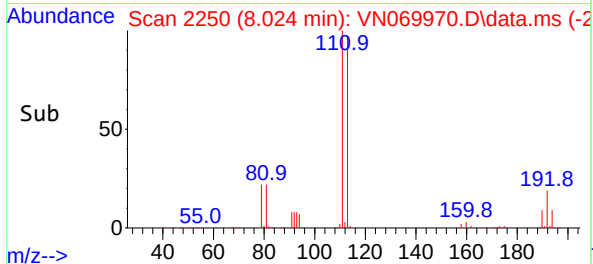
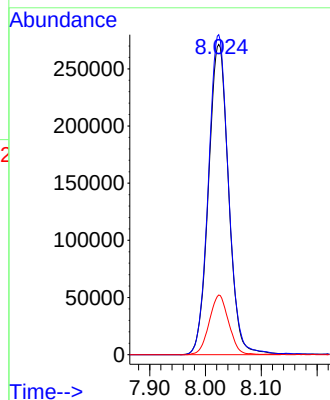
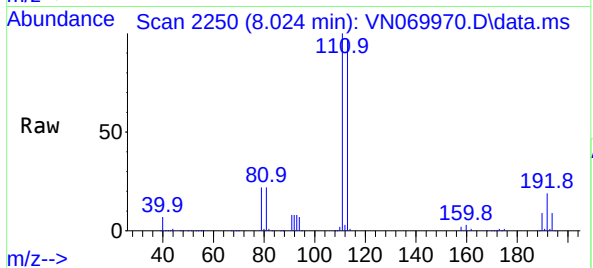




#35  
Dibromofluoromethane  
Concen: 49.101 ug/l  
RT: 8.024 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

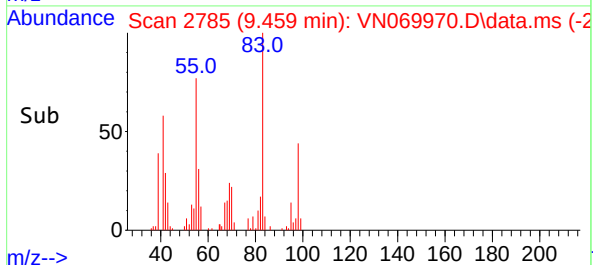
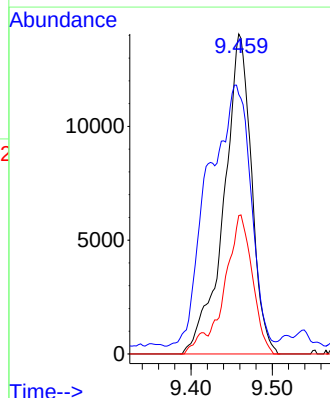
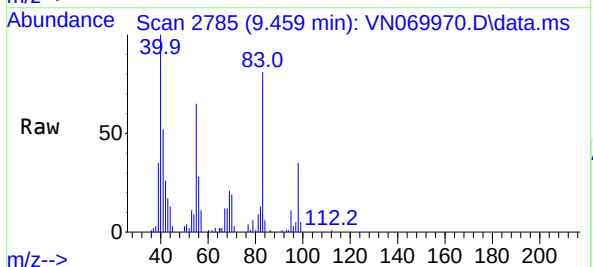
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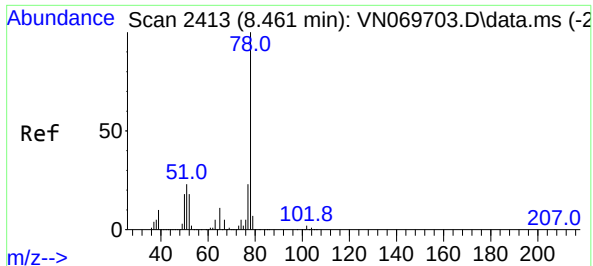
Tgt Ion:113 Resp: 678988  
Ion Ratio Lower Upper  
113 100  
111 103.0 82.2 123.2  
192 18.6 16.9 25.3



#39  
Methylcyclohexane  
Concen: 1.328 ug/l  
RT: 9.459 min Scan# 2785  
Delta R.T. -0.003 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion: 83 Resp: 33197  
Ion Ratio Lower Upper  
83 100  
55 76.6 58.1 87.1  
98 43.3 38.4 57.6

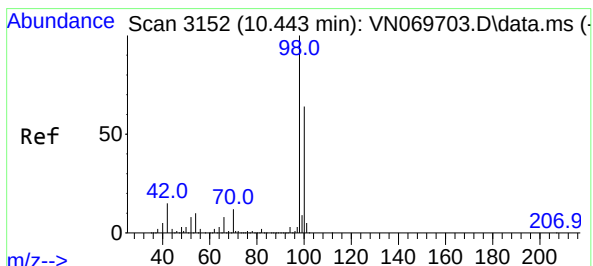
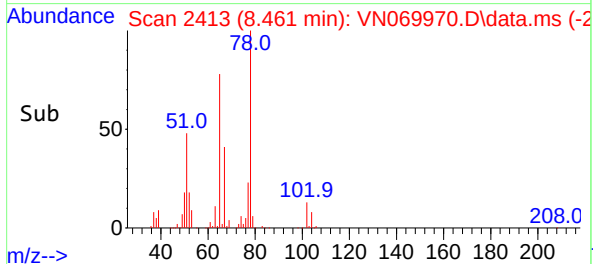
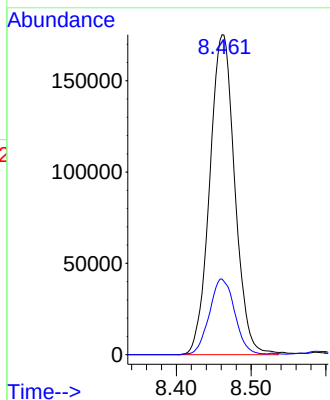
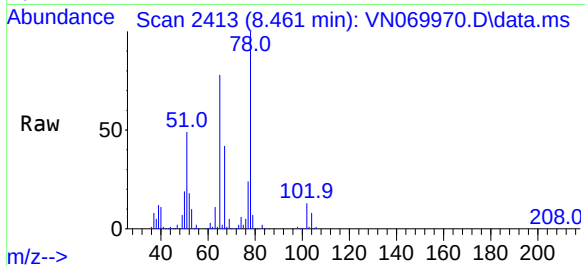




#40  
Benzene  
Concen: 6.353 ug/l  
RT: 8.461 min Scan# 2413  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

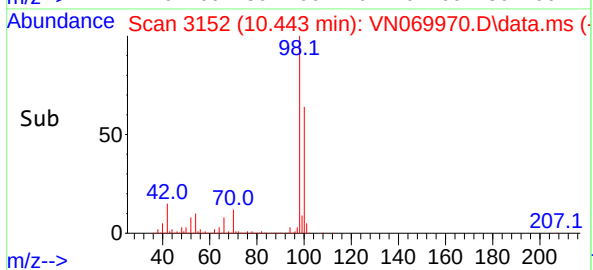
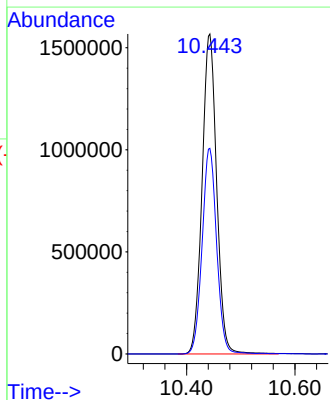
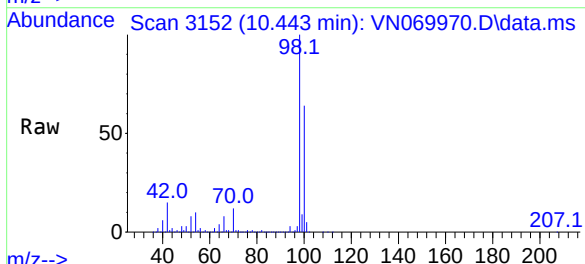
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

Tgt Ion: 78 Resp: 408117  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.6 27.8

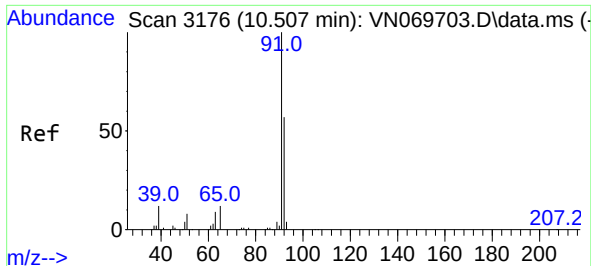


#50  
Toluene-d8  
Concen: 52.799 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion: 98 Resp: 2931680  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.4 75.6



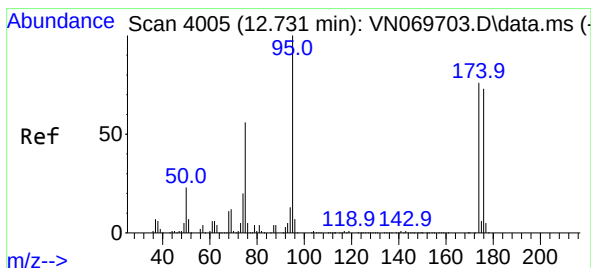
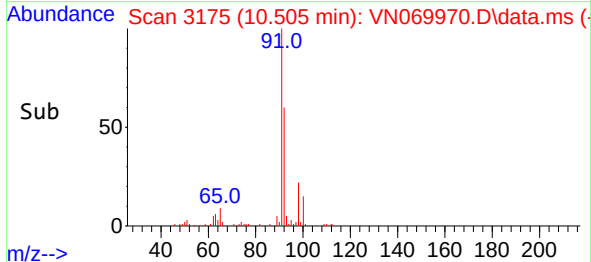
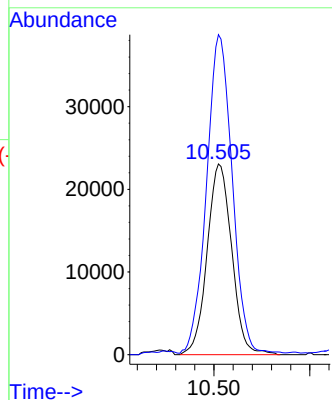
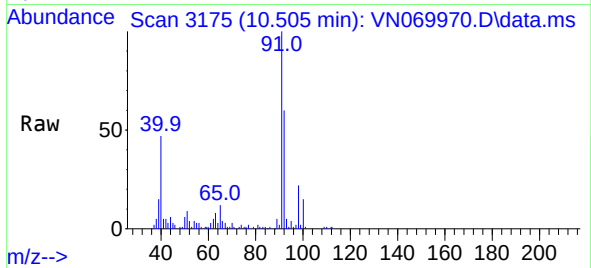




#52  
Toluene  
Concen: 1.050 ug/l  
RT: 10.505 min Scan# 3176  
Delta R.T. -0.003 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

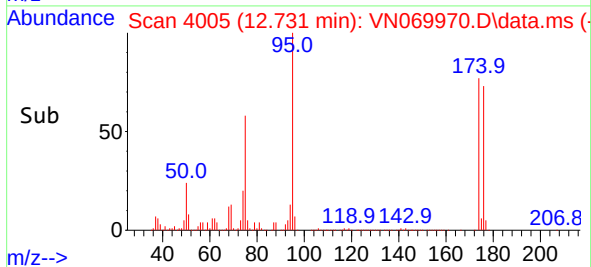
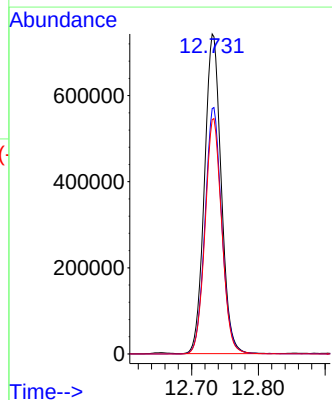
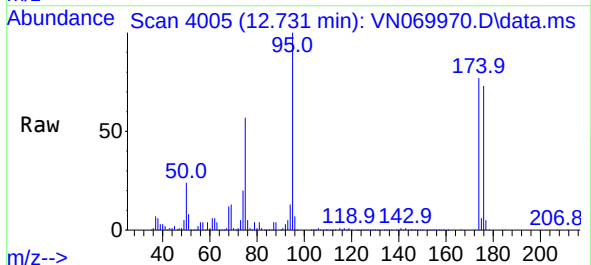
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

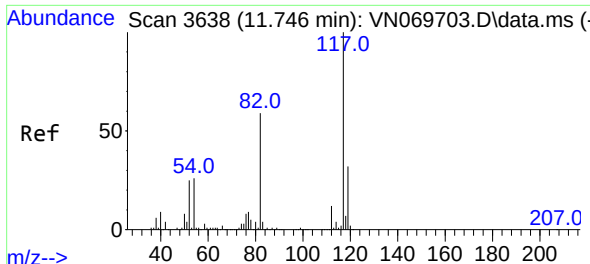
Tgt Ion: 92 Resp: 41163  
Ion Ratio Lower Upper  
92 100  
91 173.4 142.0 213.0



#62  
4-Bromofluorobenzene  
Concen: 64.116 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

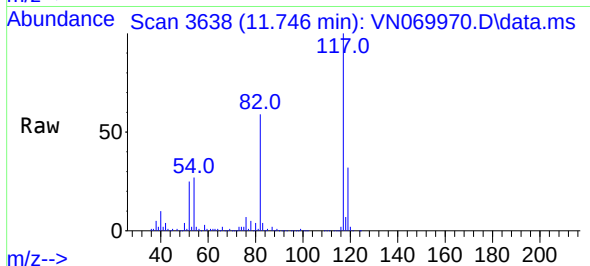
Tgt Ion: 95 Resp: 1289719  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 187.2  
176 73.8 0.0 181.4





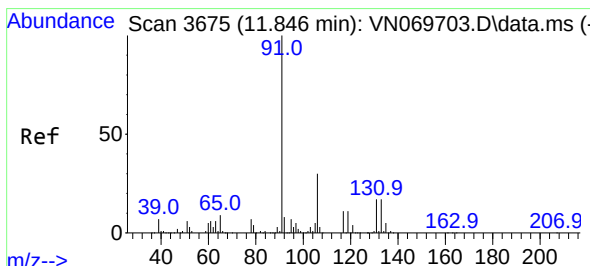
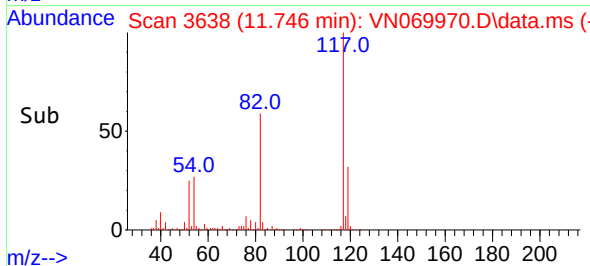
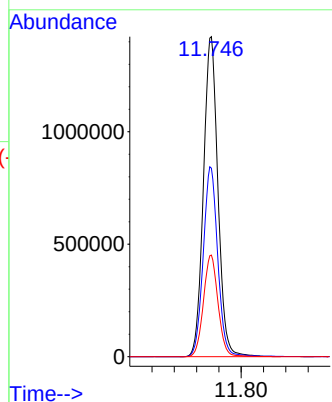
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A



Tgt Ion:117 Resp: 2568559

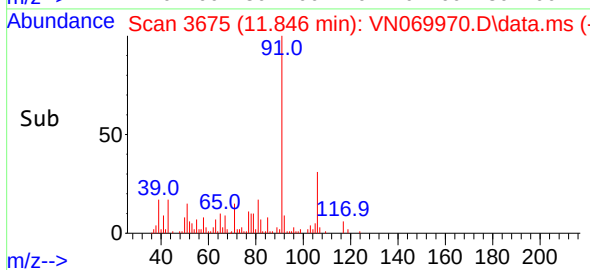
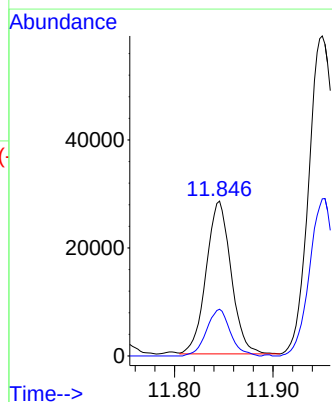
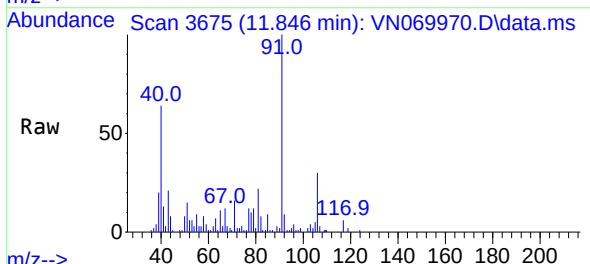
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 58.9  | 42.4  | 63.6  |
| 119 | 31.8  | 25.4  | 38.2  |

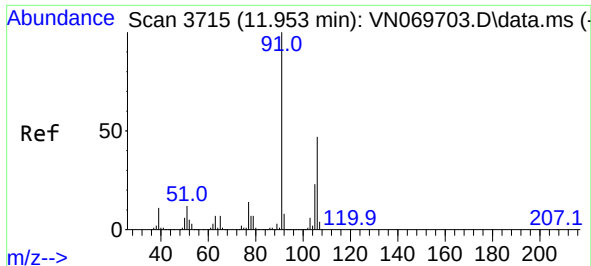


#67  
Ethyl Benzene  
Concen: 0.527 ug/l  
RT: 11.846 min Scan# 3675  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion: 91 Resp: 49883

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 106 | 30.6  | 25.7  | 38.5  |

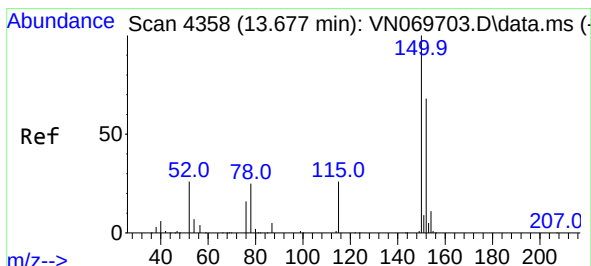
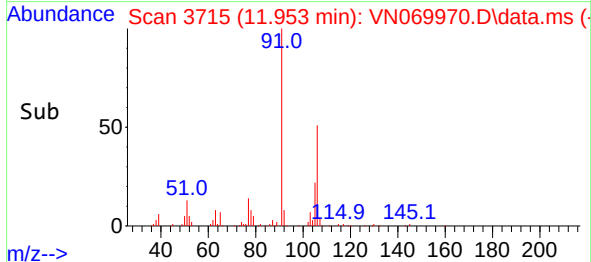
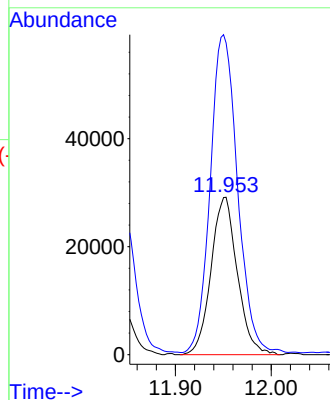
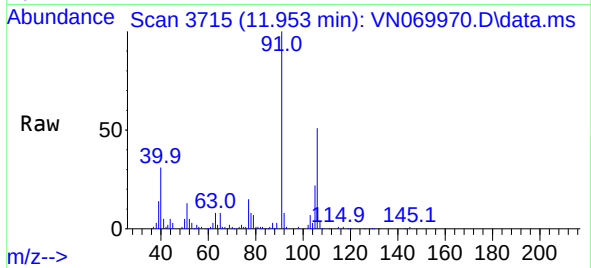




#68  
m/p-Xylenes  
Concen: 1.611 ug/l  
RT: 11.953 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

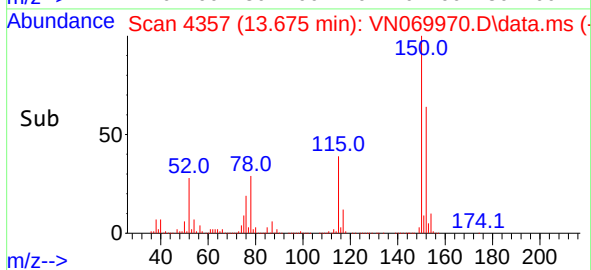
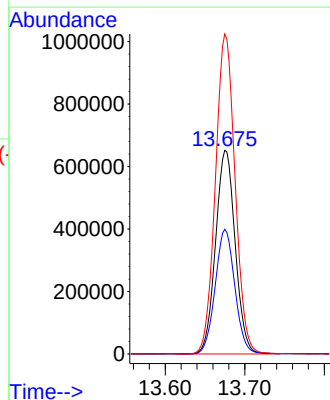
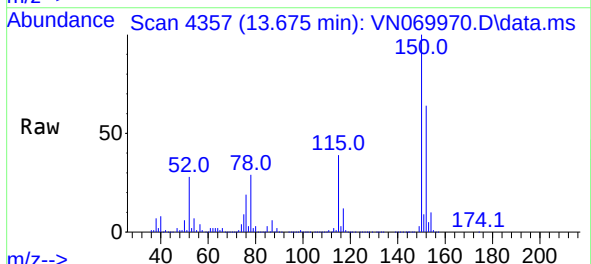
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

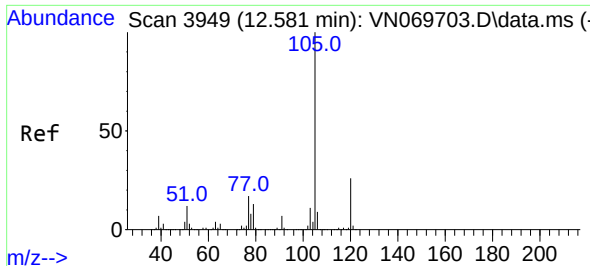
Tgt Ion:106 Resp: 55522  
Ion Ratio Lower Upper  
106 100  
91 208.1 160.6 240.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. -0.003 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion:152 Resp: 1117847  
Ion Ratio Lower Upper  
152 100  
115 61.2 27.5 82.5  
150 157.6 0.0 344.4

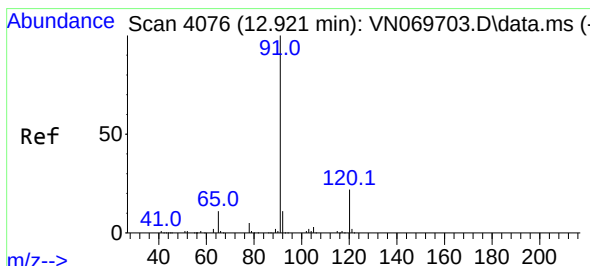
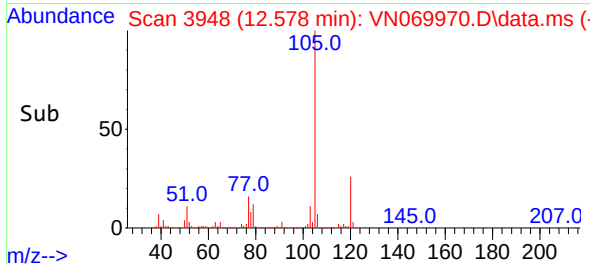
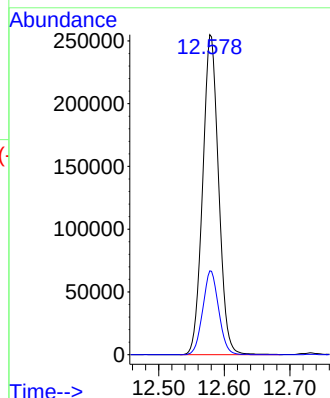
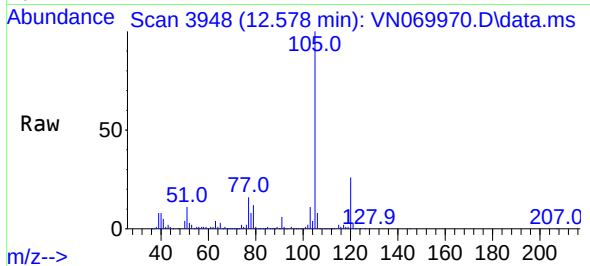




#73  
Isopropylbenzene  
Concen: 4.316 ug/l  
RT: 12.578 min Scan# 3949  
Delta R.T. -0.003 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

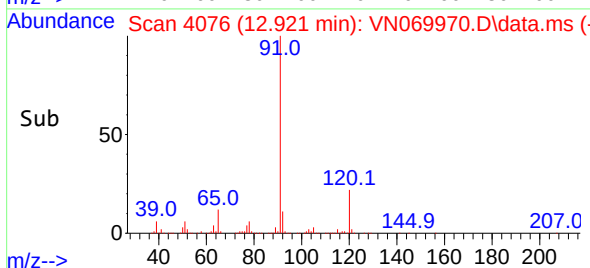
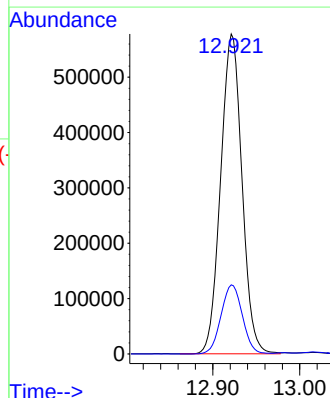
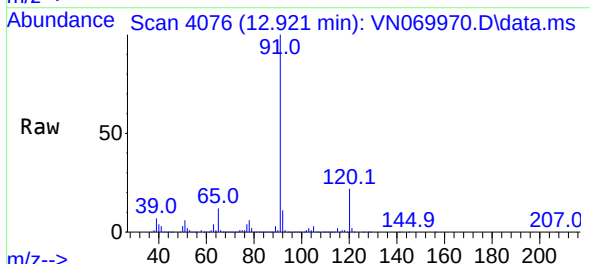
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

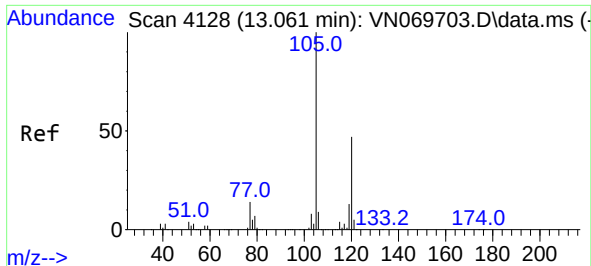
Tgt Ion:105 Resp: 429265  
Ion Ratio Lower Upper  
105 100  
120 26.1 13.4 40.1



#78  
n-propylbenzene  
Concen: 8.894 ug/l  
RT: 12.921 min Scan# 4076  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion: 91 Resp: 984288  
Ion Ratio Lower Upper  
91 100  
120 21.7 11.9 35.9

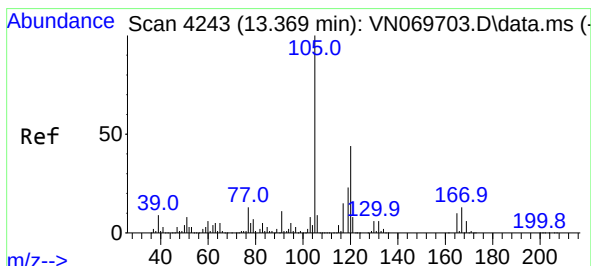
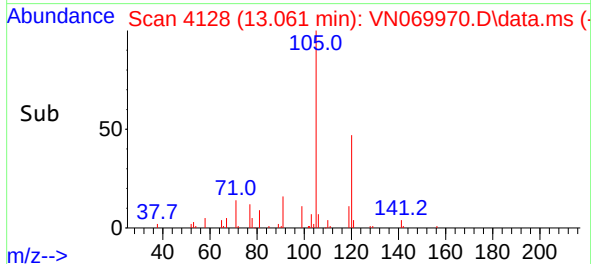
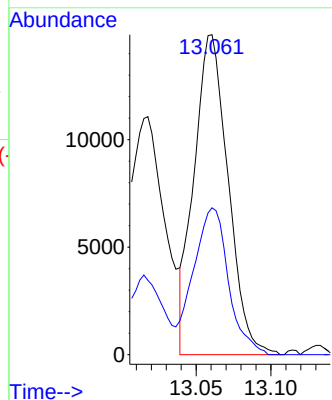
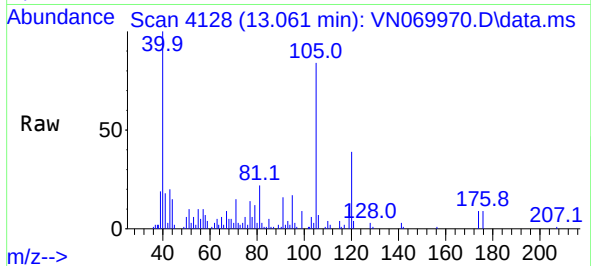




#80  
1,3,5-Trimethylbenzene  
Concen: 0.294 ug/l  
RT: 13.061 min Scan# 4128  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

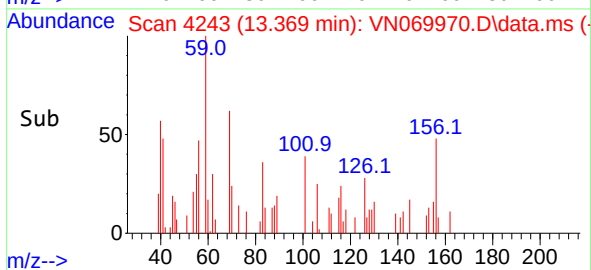
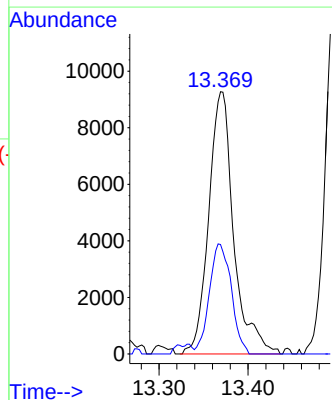
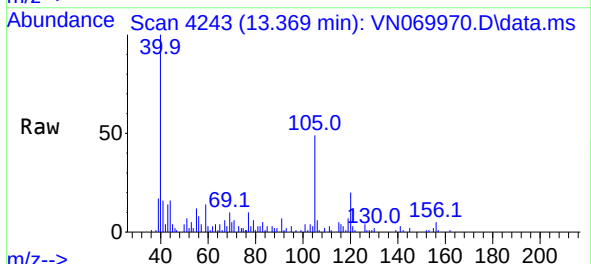
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW-1A

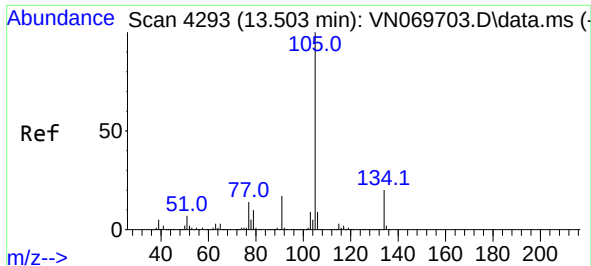
Tgt Ion:105 Resp: 23574  
Ion Ratio Lower Upper  
105 100  
120 47.1 24.6 73.6



#84  
1,2,4-Trimethylbenzene  
Concen: 0.237 ug/l  
RT: 13.369 min Scan# 4243  
Delta R.T. 0.000 min  
Lab File: VN069970.D  
Acq: 10 Dec 2021 20:14

Tgt Ion:105 Resp: 18065  
Ion Ratio Lower Upper  
105 100  
120 36.7 22.8 68.4

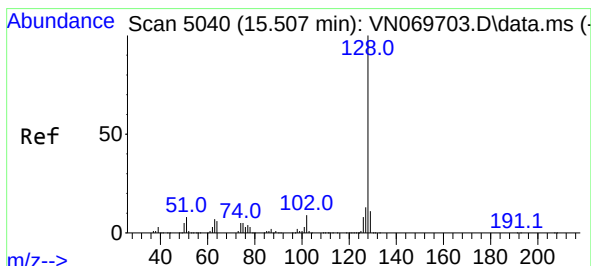
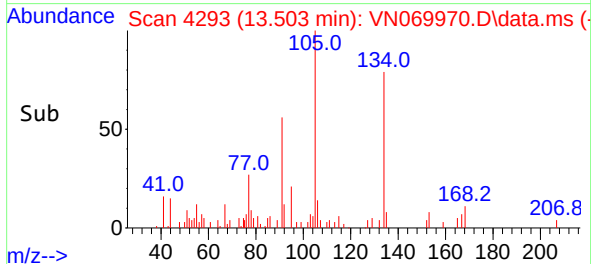
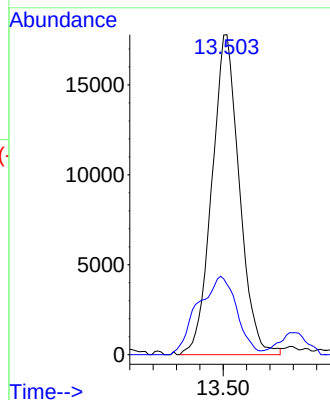
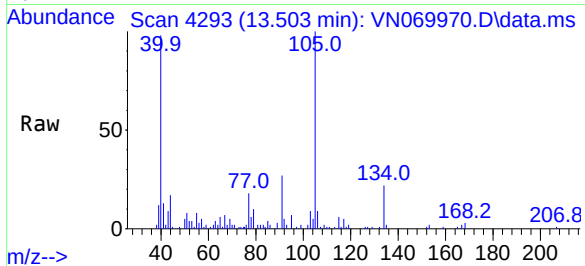




#85  
 sec-Butylbenzene  
 Concen: 0.303 ug/l  
 RT: 13.503 min Scan# 4293  
 Delta R.T. 0.000 min  
 Lab File: VN069970.D  
 Acq: 10 Dec 2021 20:14

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RW-1A

Tgt Ion:105 Resp: 29119  
 Ion Ratio Lower Upper  
 105 100  
 134 34.6 10.4 31.1#



#95  
 Naphthalene  
 Concen: 5.249 ug/l  
 RT: 15.507 min Scan# 5040  
 Delta R.T. -0.000 min  
 Lab File: VN069970.D  
 Acq: 10 Dec 2021 20:14

Tgt Ion:128 Resp: 75044  
 Ion Ratio Lower Upper  
 128 100  
 127 15.3 10.5 15.7  
 129 10.3 8.7 13.1

