

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102925\  
 Data File : VN088152.D  
 Acq On : 29 Oct 2025 12:21  
 Operator : JC\MD  
 Sample : Q3468-02DL 5X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-08DL

Quant Time: Oct 30 04:04:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102325W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 25 00:15:22 2025  
 Response via : Initial Calibration

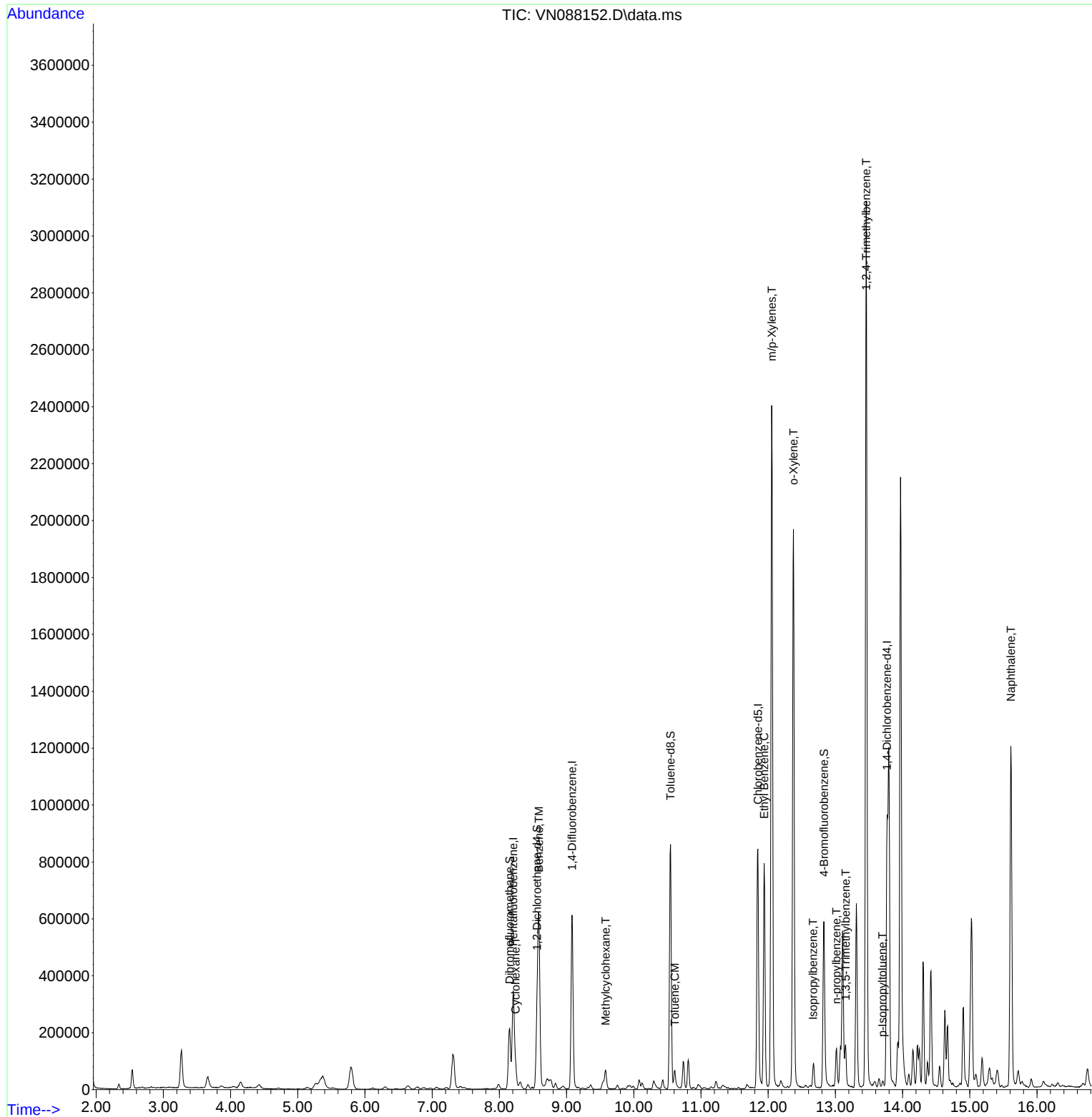
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 8.206  | 168   | 214217   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.082  | 114   | 486300   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.847 | 117   | 458325   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.770 | 152   | 232108   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.559  | 65    | 202995   | 54.800   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 109.600% |          |
| 35) Dibromofluoromethane    | 8.153  | 113   | 155367   | 47.557   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 95.120%  |          |
| 50) Toluene-d8              | 10.547 | 98    | 569581   | 45.247   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 90.500%  |          |
| 62) 4-Bromofluorobenzene    | 12.829 | 95    | 227206   | 51.107   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | = 102.220% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          | Qvalue     |          |
| 31) Cyclohexane             | 8.241  | 56    | 47366    | 9.135    | ug/l       | 94       |
| 39) Methylcyclohexane       | 9.582  | 83    | 26693    | 4.353    | ug/l       | 96       |
| 40) Benzene                 | 8.588  | 78    | 555580   | 38.244   | ug/l       | 98       |
| 52) Toluene                 | 10.612 | 92    | 25383    | 2.834    | ug/l       | 96       |
| 67) Ethyl Benzene           | 11.941 | 91    | 558460   | 30.571   | ug/l       | 99       |
| 68) m/p-Xylenes             | 12.053 | 106   | 681526   | 99.571   | ug/l       | 98       |
| 69) o-Xylene                | 12.376 | 106   | 520688   | 80.248   | ug/l       | 98       |
| 73) Isopropylbenzene        | 12.670 | 105   | 53716    | 3.001    | ug/l       | 98       |
| 78) n-propylbenzene         | 13.018 | 91    | 111420   | 5.100    | ug/l       | 99       |
| 80) 1,3,5-Trimethylbenzene  | 13.153 | 105   | 81874    | 5.507    | ug/l       | 92       |
| 84) 1,2,4-Trimethylbenzene  | 13.459 | 105   | 1734065  | 116.574  | ug/l       | 99       |
| 86) p-Isopropyltoluene      | 13.700 | 119   | 7507     | 0.480    | ug/l #     | 70       |
| 95) Naphthalene             | 15.611 | 128   | 1063636  | 69.014   | ug/l       | 100      |
| -----                       |        |       |          |          |            |          |

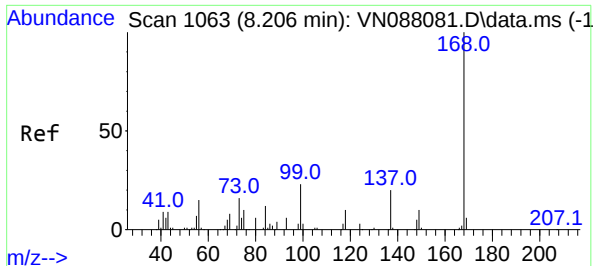
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102925\  
Data File : VN088152.D  
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Sample : Q3468-02DL 5X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL

Quant Time: Oct 30 04:04:10 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102325W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 25 00:15:22 2025  
Response via : Initial Calibration

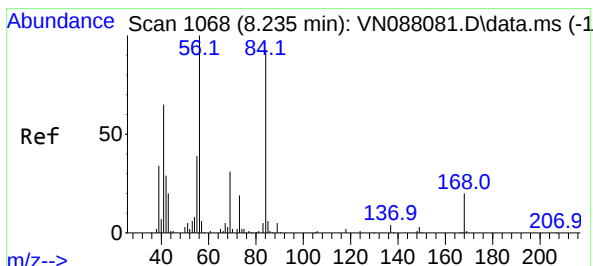
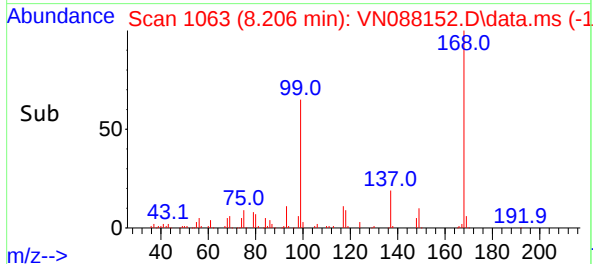
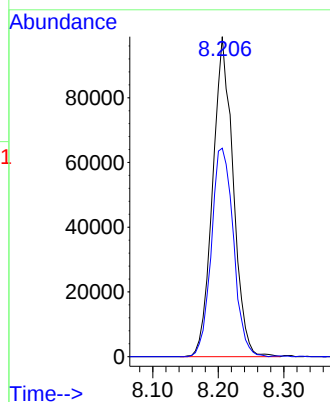
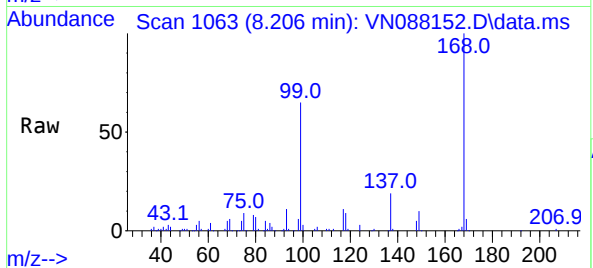




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. 0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

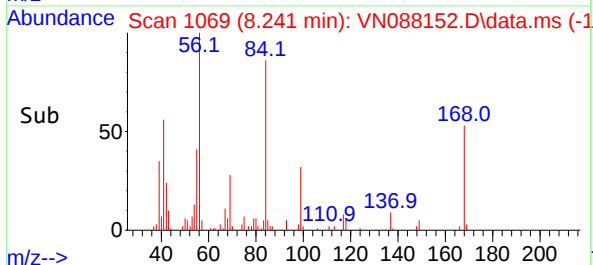
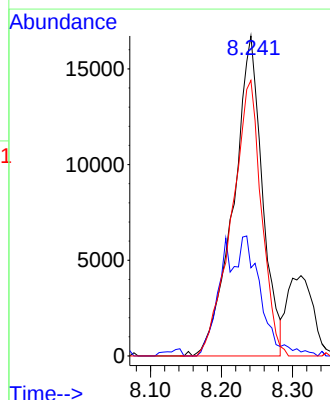
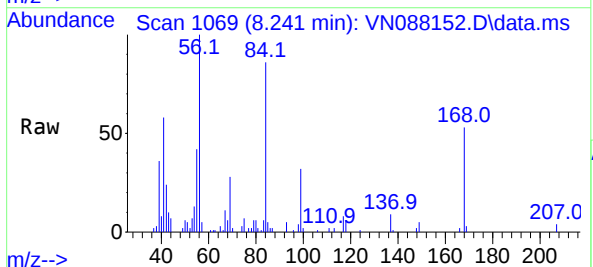
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL

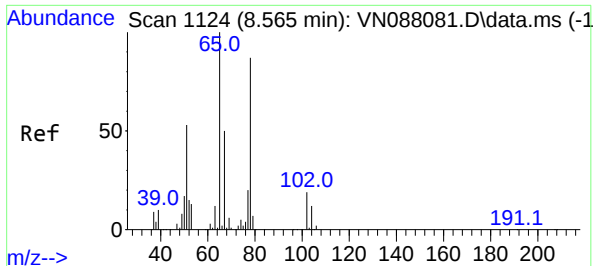
Tgt Ion:168 Resp: 214217  
Ion Ratio Lower Upper  
168 100  
99 65.2 57.2 85.8



#31  
Cyclohexane  
Concen: 9.135 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Tgt Ion: 56 Resp: 47366  
Ion Ratio Lower Upper  
56 100  
69 25.3 23.7 35.5  
84 86.1 64.7 97.1

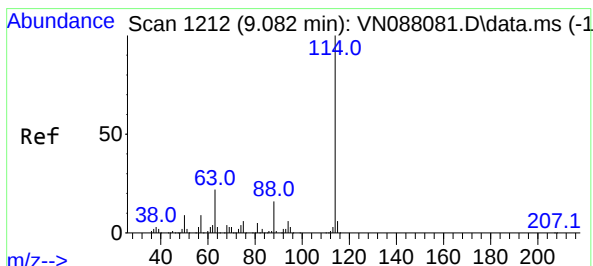
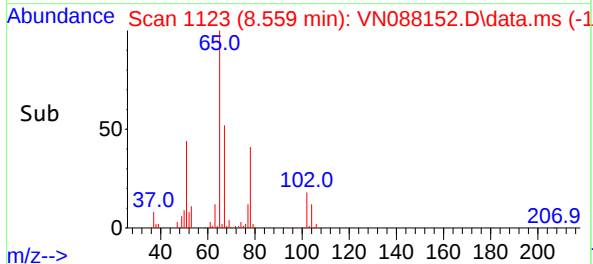
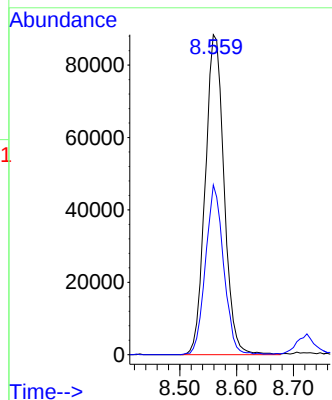
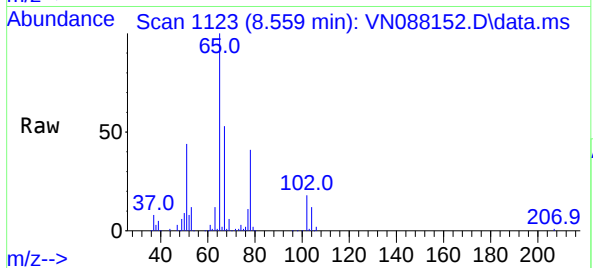




#33  
1,2-Dichloroethane-d4  
Concen: 54.800 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

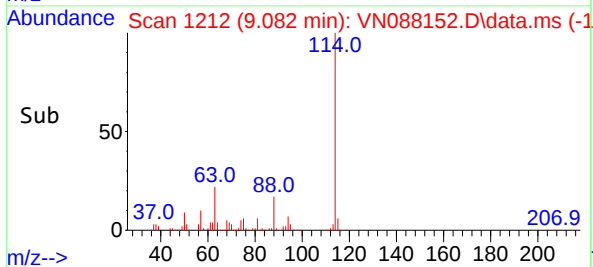
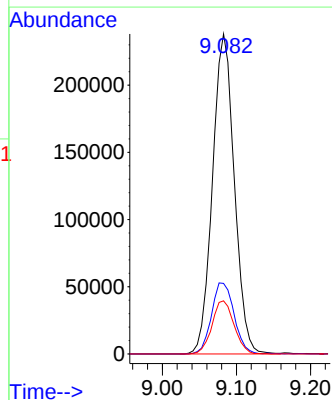
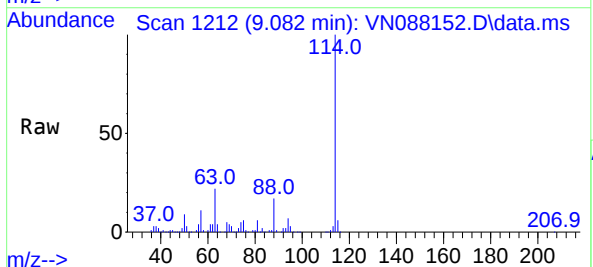
Instrument :  
MSVOA\_N  
ClientSampleId :  
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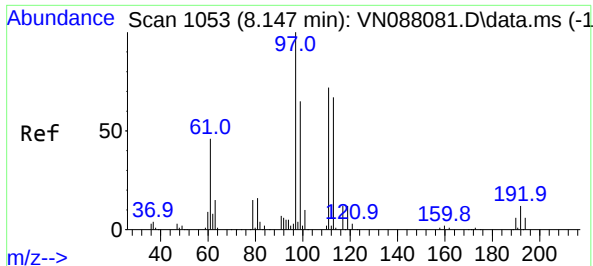
Tgt Ion: 65 Resp: 202995  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 100.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Tgt Ion: 114 Resp: 486300  
Ion Ratio Lower Upper  
114 100  
63 22.1 0.0 45.2  
88 16.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 47.557 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088152.D

Acq: 29 Oct 2025 12:21

Instrument :

MSVOA\_N

ClientSampleId :

MW-08DL

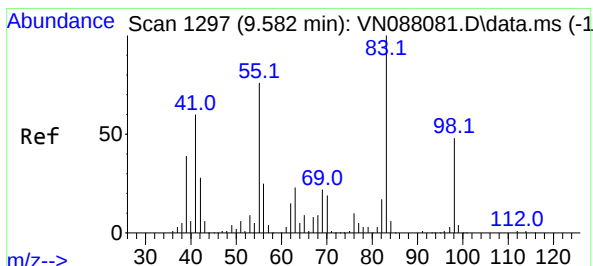
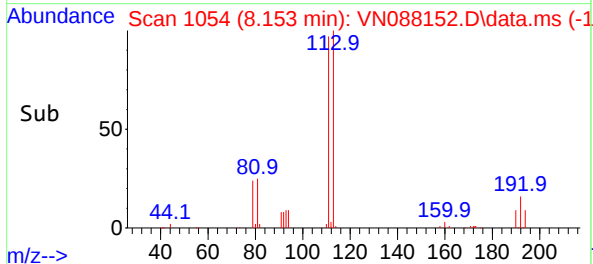
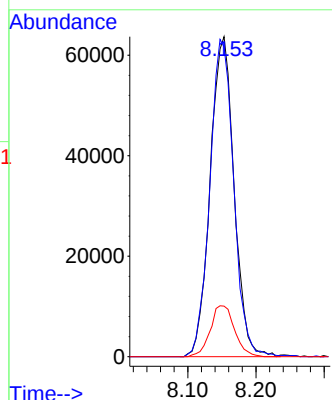
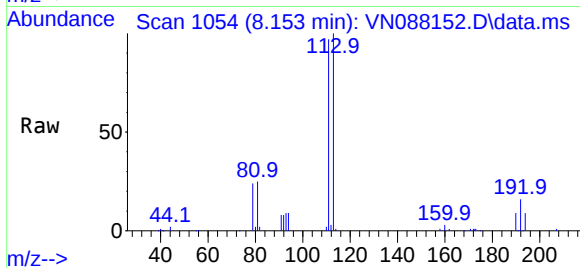
Tgt Ion:113 Resp: 155367

Ion Ratio Lower Upper

113 100

111 99.1 82.8 124.2

192 16.2 12.8 19.2



#39

Methylcyclohexane

Concen: 4.353 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN088152.D

Acq: 29 Oct 2025 12:21

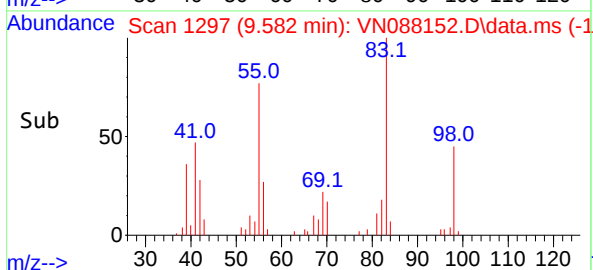
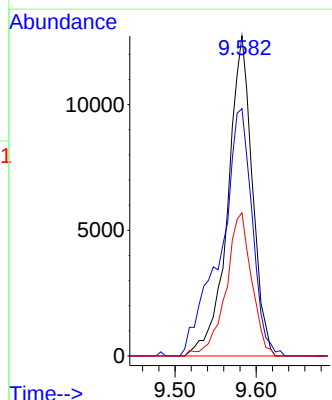
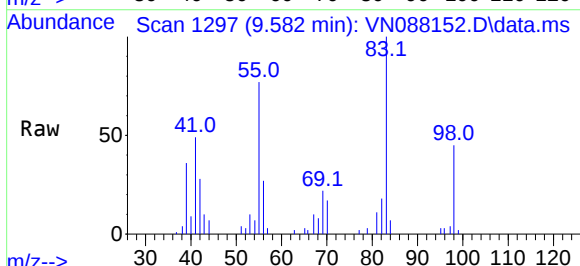
Tgt Ion: 83 Resp: 26693

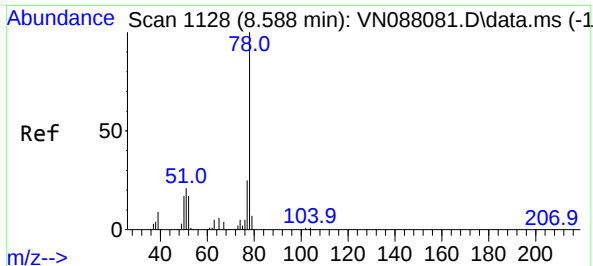
Ion Ratio Lower Upper

83 100

55 77.3 64.6 96.8

98 44.7 38.4 57.6

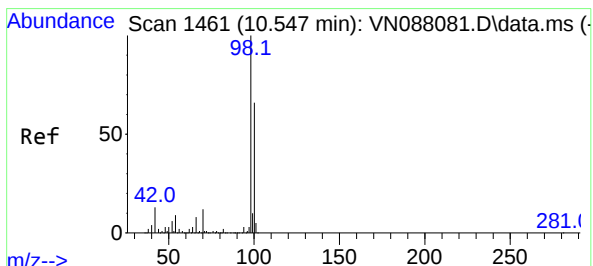
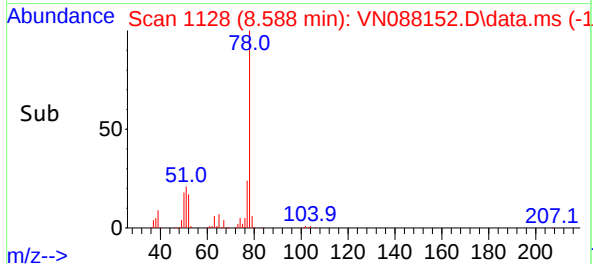
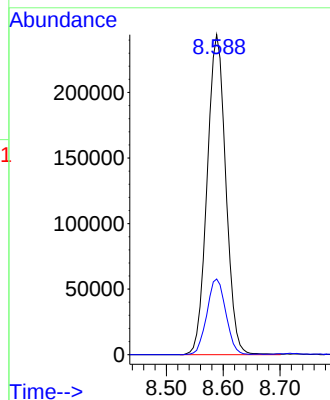
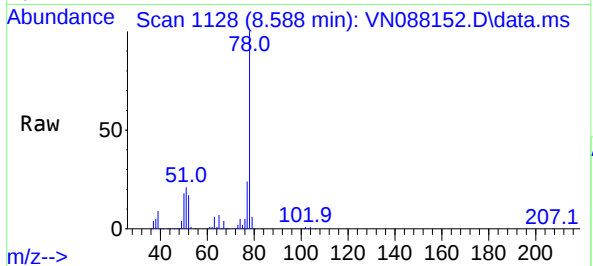




#40  
Benzene  
Concen: 38.244 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

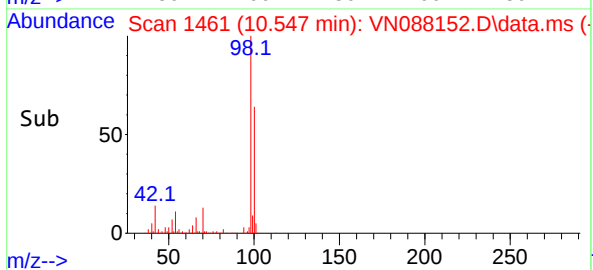
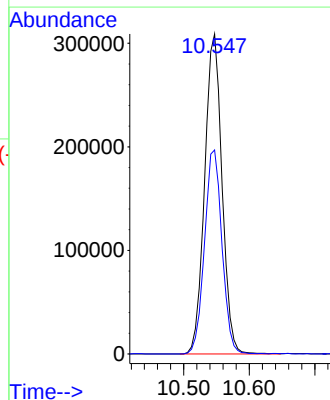
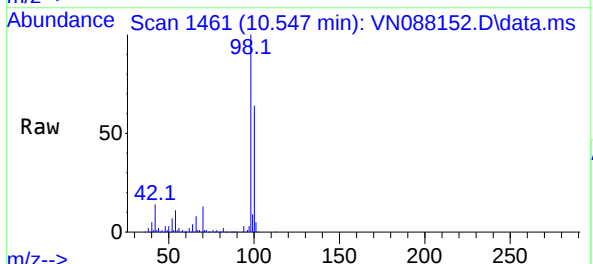
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL

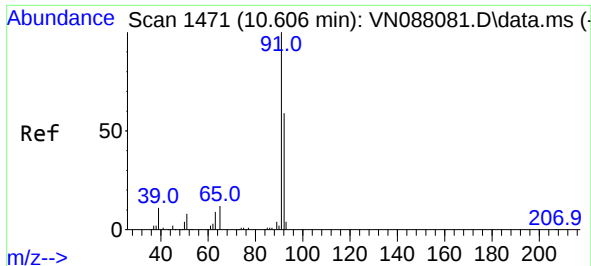
Tgt Ion: 78 Resp: 555580  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.7 29.5



#50  
Toluene-d8  
Concen: 45.247 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Tgt Ion: 98 Resp: 569581  
Ion Ratio Lower Upper  
98 100  
100 64.1 52.8 79.2

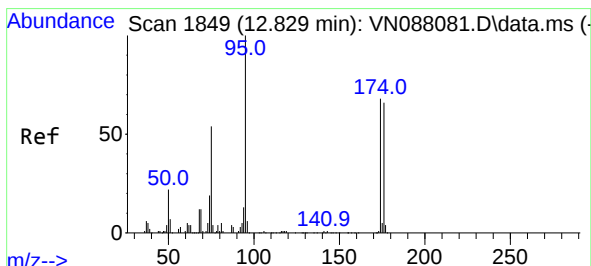
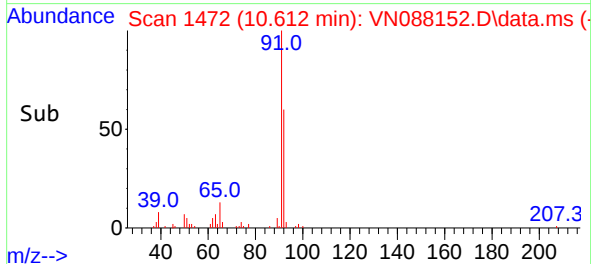
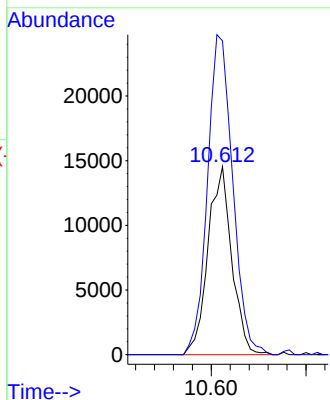
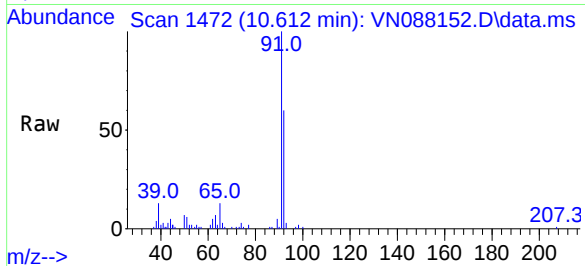




#52  
Toluene  
Concen: 2.834 ug/l  
RT: 10.612 min Scan# 1471  
Delta R.T. 0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

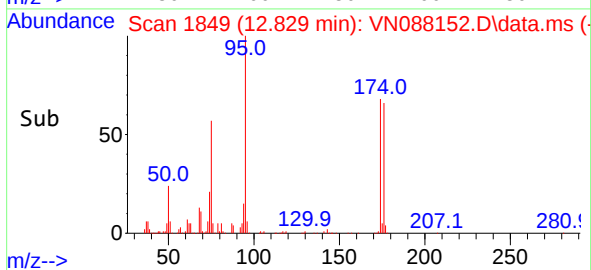
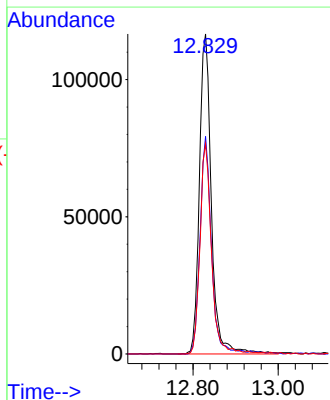
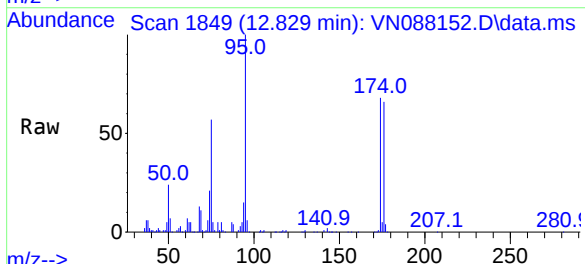
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MW-08DL

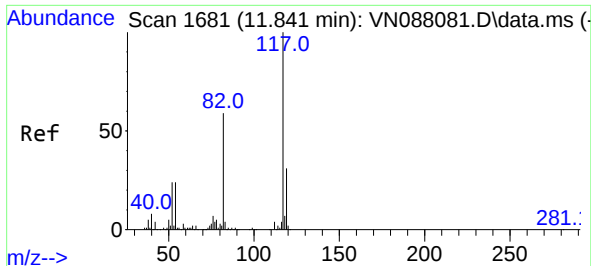
Tgt Ion: 92 Resp: 25383  
Ion Ratio Lower Upper  
92 100  
91 180.5 140.4 210.6



#62  
4-Bromofluorobenzene  
Concen: 51.107 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Tgt Ion: 95 Resp: 227206  
Ion Ratio Lower Upper  
95 100  
174 64.8 0.0 138.4  
176 62.9 0.0 132.6

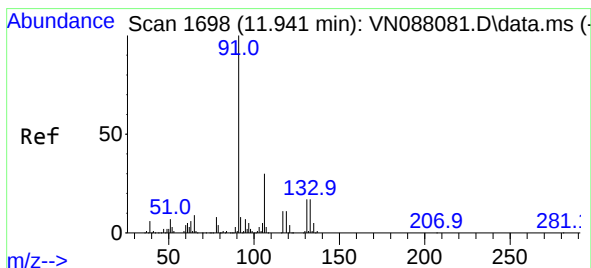
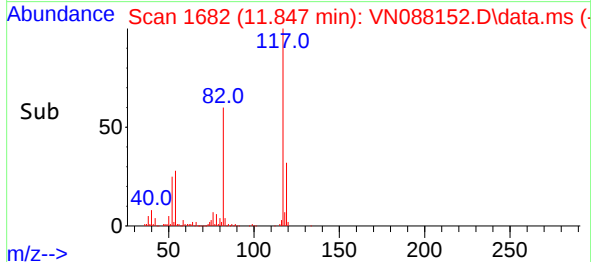
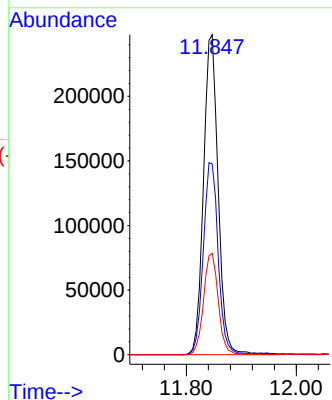
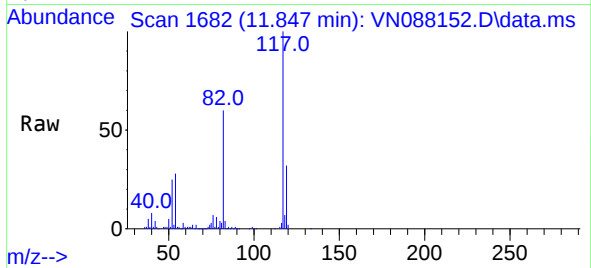




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.847 min Scan# 1681  
Delta R.T. 0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

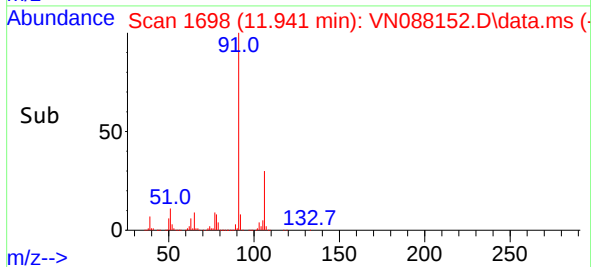
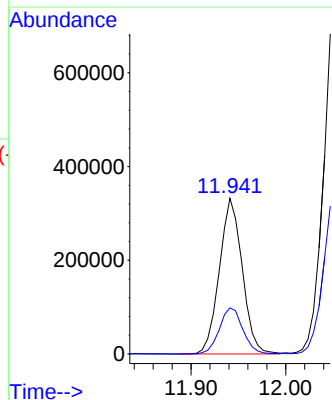
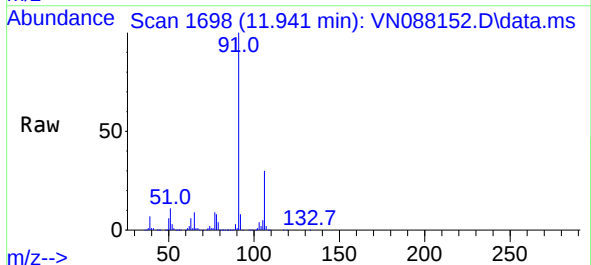
Instrument :  
MSVOA\_N  
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MW-08DL

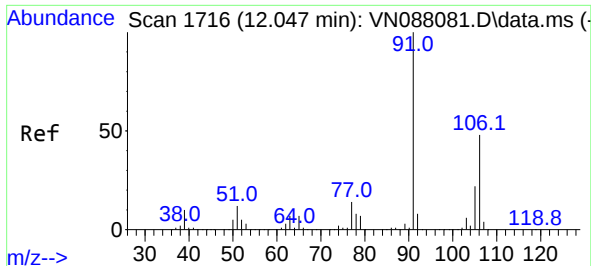
Tgt Ion:117 Resp: 458325  
Ion Ratio Lower Upper  
117 100  
82 59.6 47.4 71.2  
119 31.6 24.3 36.5



#67  
Ethyl Benzene  
Concen: 30.571 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Tgt Ion: 91 Resp: 558460  
Ion Ratio Lower Upper  
91 100  
106 29.6 24.1 36.1

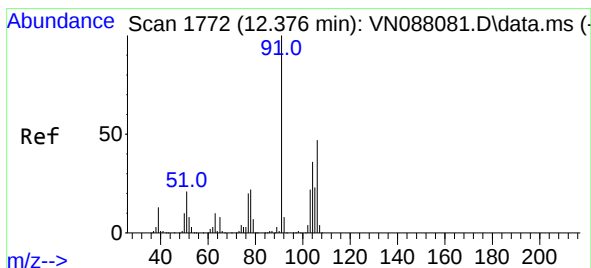
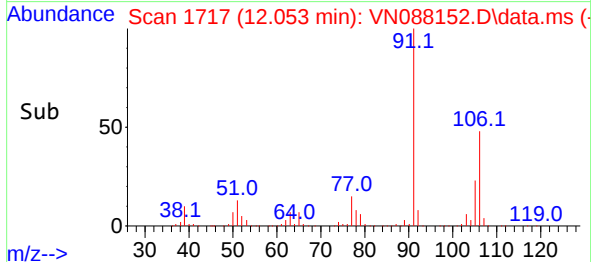
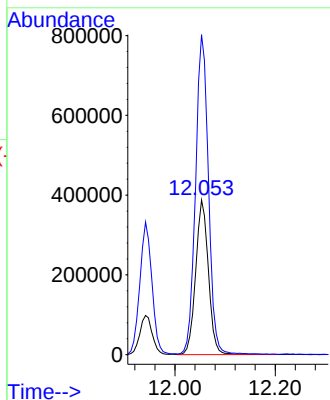
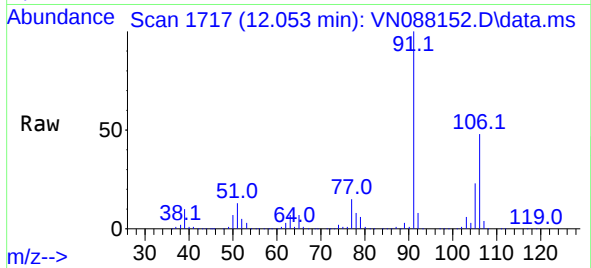




#68  
m/p-Xylenes  
Concen: 99.571 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

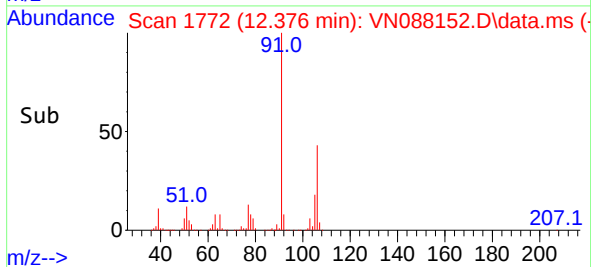
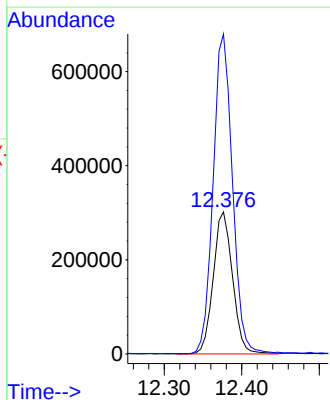
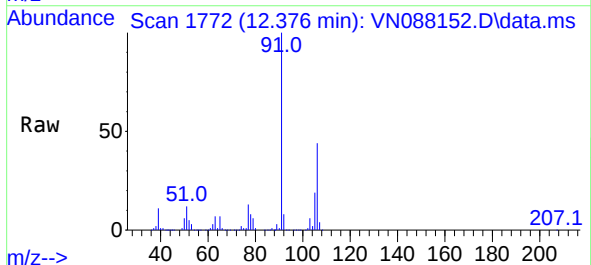
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL

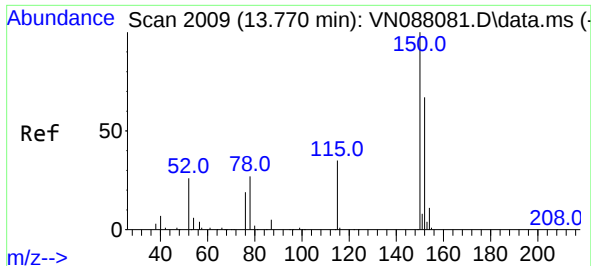
Tgt Ion:106 Resp: 681526  
Ion Ratio Lower Upper  
106 100  
91 208.6 169.3 253.9



#69  
o-Xylene  
Concen: 80.248 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

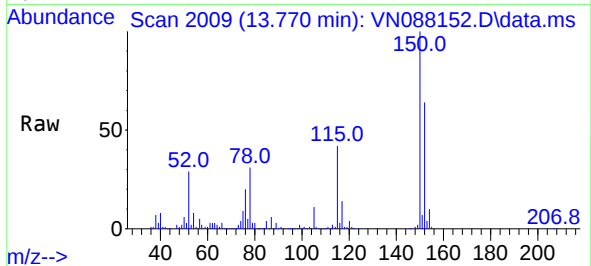
Tgt Ion:106 Resp: 520688  
Ion Ratio Lower Upper  
106 100  
91 226.2 111.4 334.2



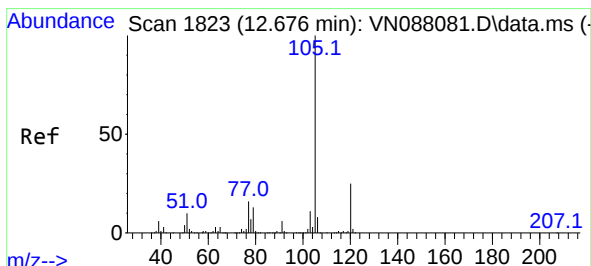
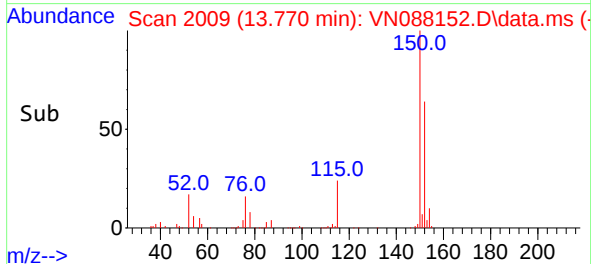
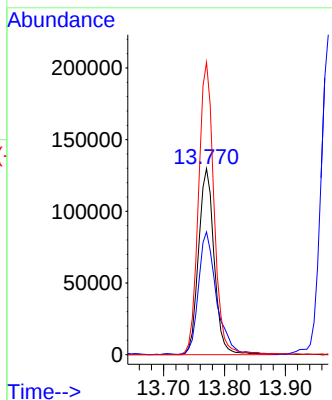


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.770 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL

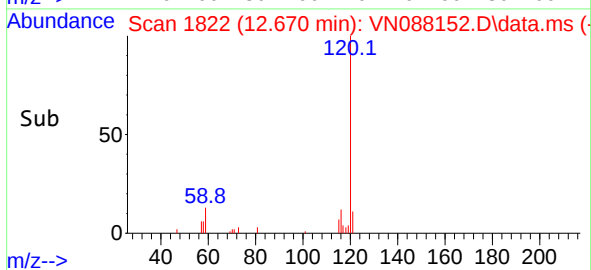
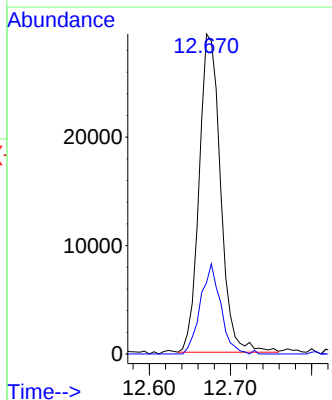
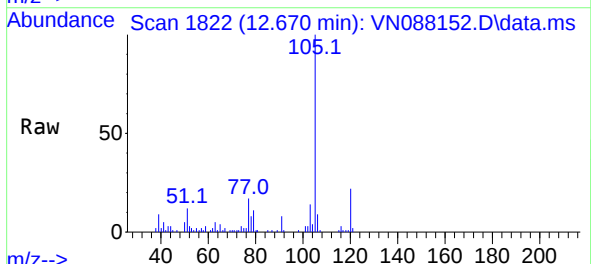


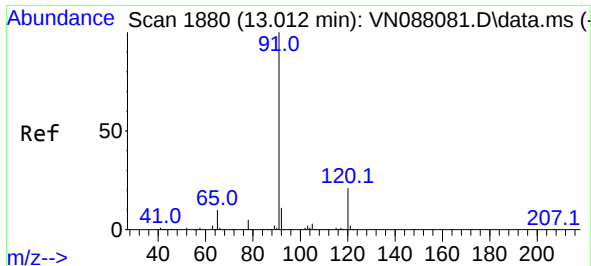
Tgt Ion:152 Resp: 232108  
Ion Ratio Lower Upper  
152 100  
115 75.9 32.3 96.8  
150 155.7 0.0 351.0



#73  
Isopropylbenzene  
Concen: 3.001 ug/l  
RT: 12.670 min Scan# 1822  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Tgt Ion:105 Resp: 53716  
Ion Ratio Lower Upper  
105 100  
120 26.7 12.8 38.3

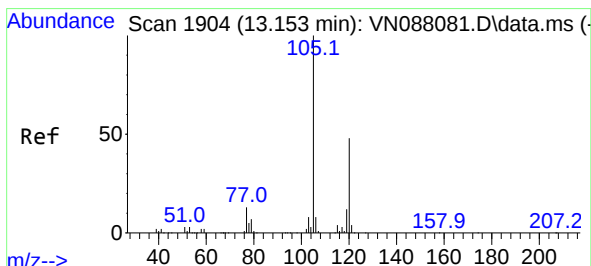
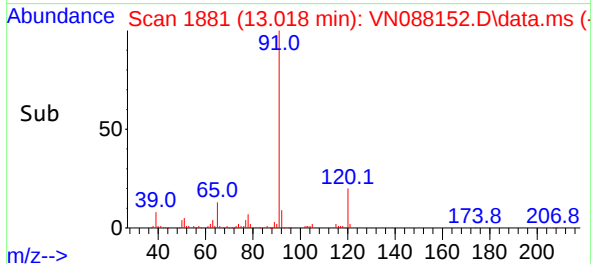
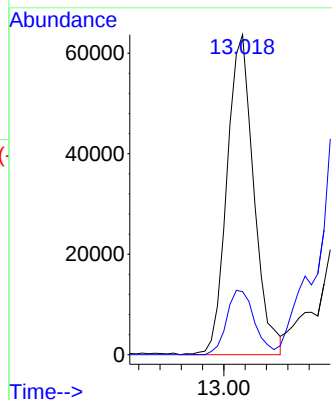
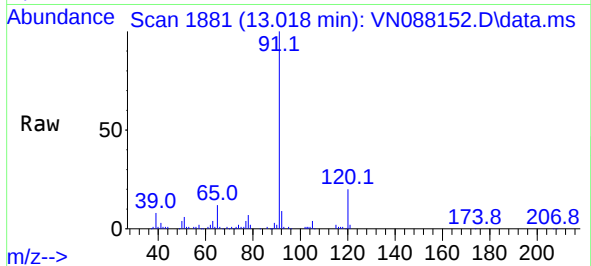




#78  
n-propylbenzene  
Concen: 5.100 ug/l  
RT: 13.018 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

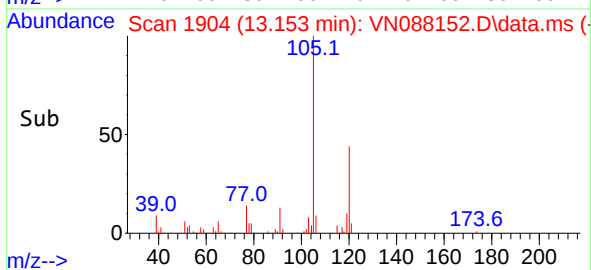
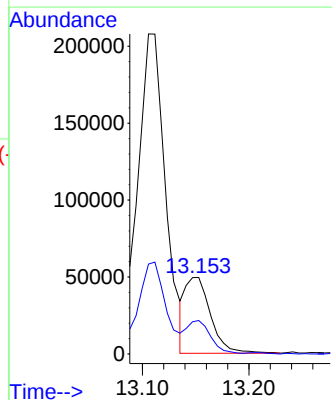
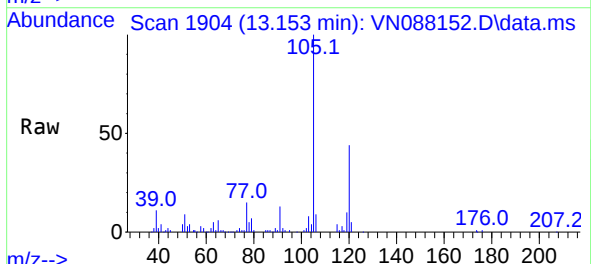
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL

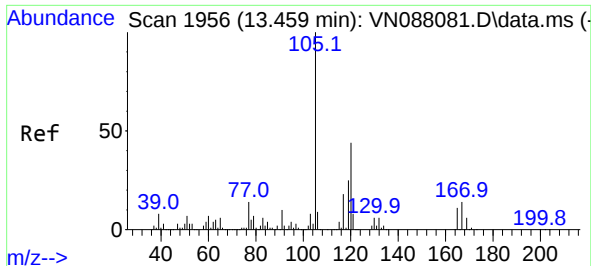
Tgt Ion: 91 Resp: 111420  
Ion Ratio Lower Upper  
91 100  
120 20.8 10.7 32.1



#80  
1,3,5-Trimethylbenzene  
Concen: 5.507 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Tgt Ion:105 Resp: 81874  
Ion Ratio Lower Upper  
105 100  
120 40.8 23.2 69.6

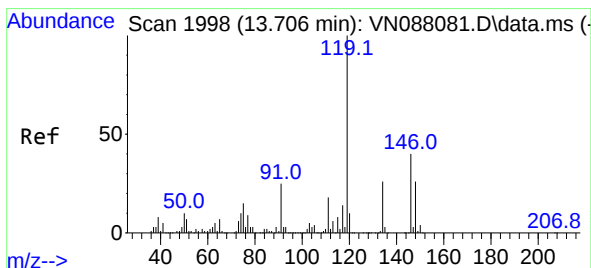
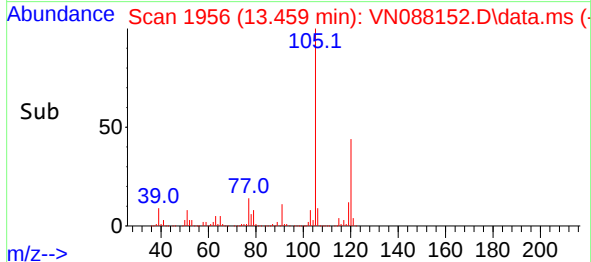
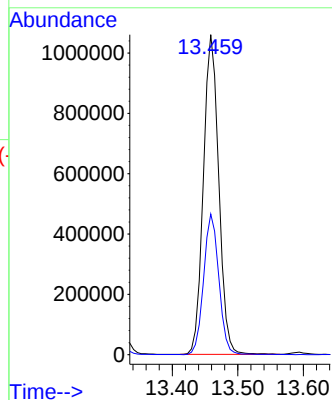
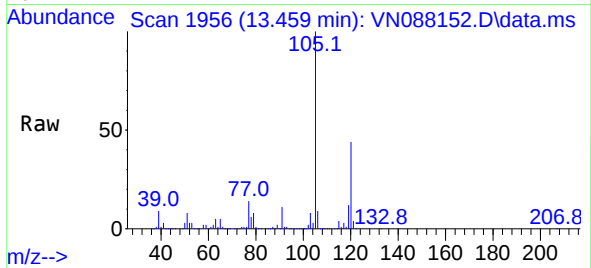




#84  
1,2,4-Trimethylbenzene  
Concen: 116.574 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

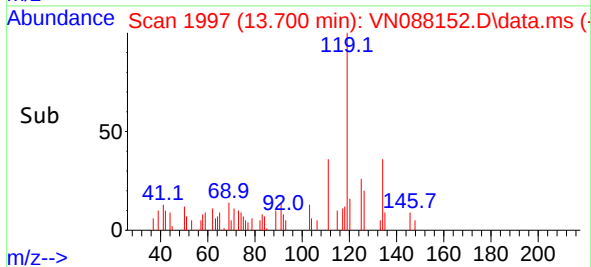
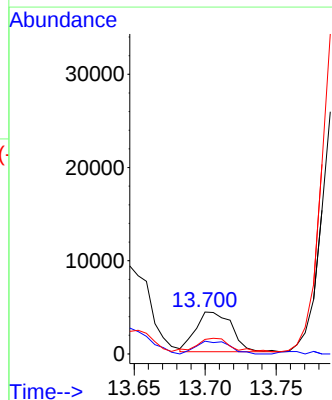
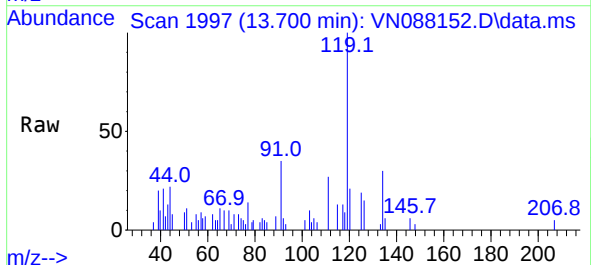
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL

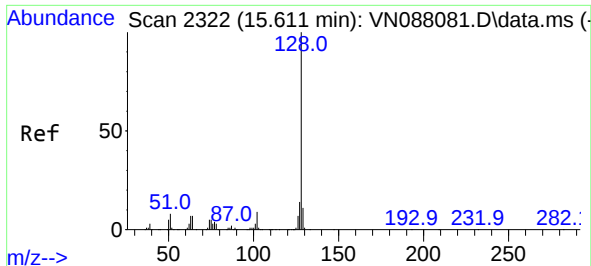
Tgt Ion:105 Resp: 1734065  
Ion Ratio Lower Upper  
105 100  
120 43.5 22.0 66.0



#86  
p-Isopropyltoluene  
Concen: 0.480 ug/l  
RT: 13.700 min Scan# 1997  
Delta R.T. -0.006 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

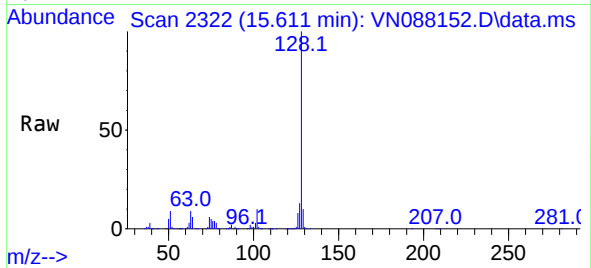
Tgt Ion:119 Resp: 7507  
Ion Ratio Lower Upper  
119 100  
134 30.2 12.7 38.0  
91 0.0 12.5 37.5#





#95  
Naphthalene  
Concen: 69.014 ug/l  
RT: 15.611 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN088152.D  
Acq: 29 Oct 2025 12:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-08DL



Tgt Ion:128 Resp: 1063636

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.9  | 10.6  | 15.8  |
| 129 | 10.7  | 8.6   | 12.8  |

