

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061522\  
 Data File : VD073597.D  
 Acq On : 15 Jun 2022 18:01  
 Operator : VA/SY  
 Sample : N3304-17  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WC-14A-1A-9

Quant Time: Jun 15 18:39:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 09 12:33:32 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.973  | 168  | 333175   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.855  | 114  | 554030   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.632 | 117  | 408223   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.555 | 152  | 217526   | 50.000 | ug/l  | # 0.00   |

|                             |        |       |          |          |      |           |
|-----------------------------|--------|-------|----------|----------|------|-----------|
| System Monitoring Compounds |        |       |          |          |      |           |
| 33) 1,2-Dichloroethane-d4   | 8.320  | 65    | 168717   | 47.188   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 94.380%   |
| 35) Dibromofluoromethane    | 7.908  | 113   | 167569   | 47.035   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 94.080%   |
| 50) Toluene-d8              | 10.332 | 98    | 1197063  | 88.870   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 177.740%# |
| 62) 4-Bromofluorobenzene    | 12.614 | 95    | 523598   | 107.077  | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 214.160%# |

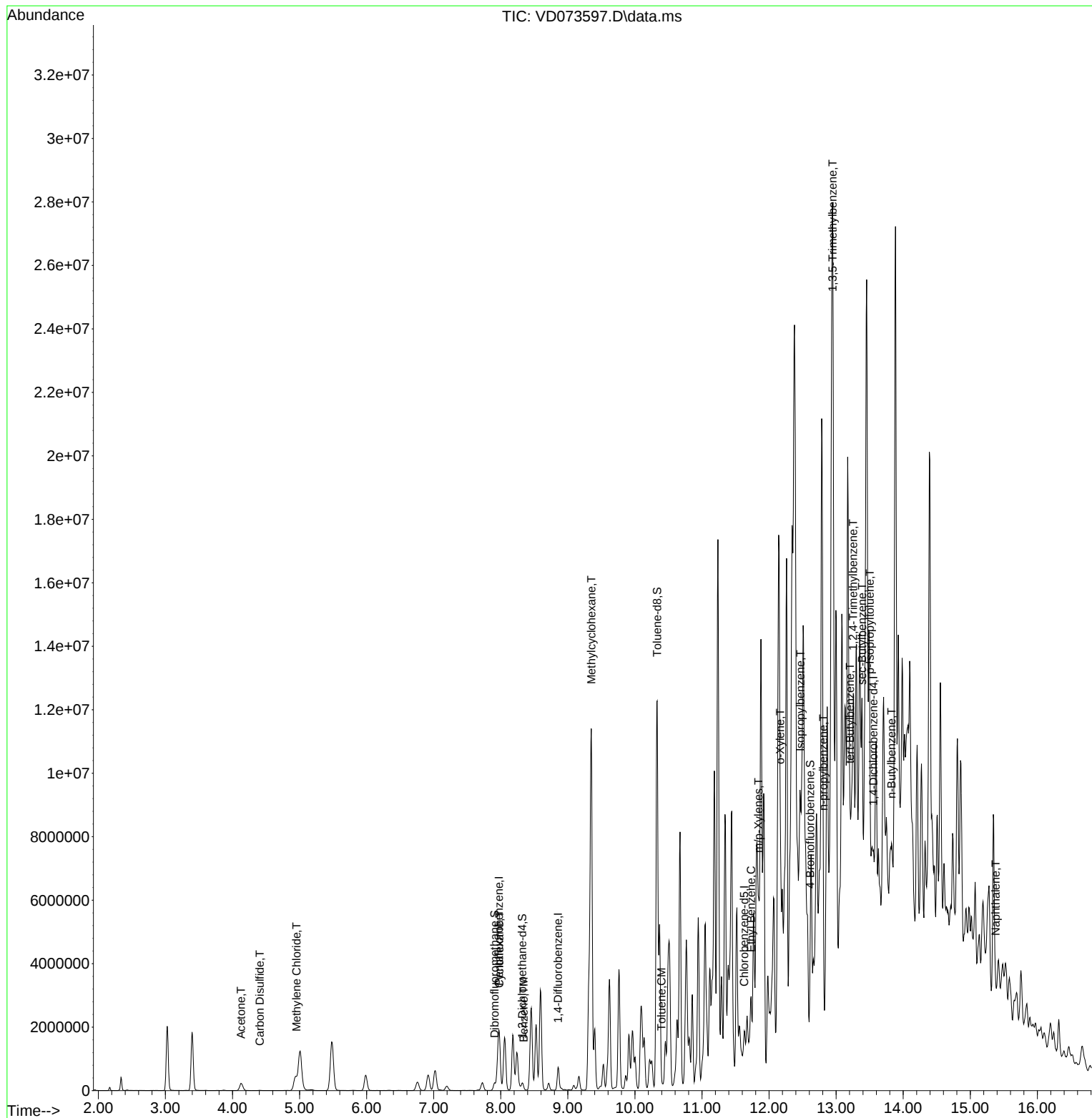
| Target Compounds           |        |     |         |         |      | Qvalue |
|----------------------------|--------|-----|---------|---------|------|--------|
| 16) Acetone                | 4.126  | 43  | 155870  | 247.592 | ug/l | # 62   |
| 17) Carbon Disulfide       | 4.409  | 76  | 16049   | 1.557   | ug/l | 97     |
| 20) Methylene Chloride     | 4.956  | 84  | 28331   | 4.189   | ug/l | # 37   |
| 31) Cyclohexane            | 7.979  | 56  | 894390  | 148.496 | ug/l | 92     |
| 39) Methylcyclohexane      | 9.350  | 83  | 5095488 | 817.176 | ug/l | 98     |
| 40) Benzene                | 8.344  | 78  | 18056   | 1.160   | ug/l | 93     |
| 52) Toluene                | 10.397 | 92  | 43789   | 4.387   | ug/l | 95     |
| 67) Ethyl Benzene          | 11.732 | 91  | 407661  | 27.773  | ug/l | 99     |
| 68) m/p-Xylenes            | 11.844 | 106 | 284252  | 49.349  | ug/l | 89     |
| 69) o-Xylene               | 12.167 | 106 | 474728  | 89.569  | ug/l | 96     |
| 73) Isopropylbenzene       | 12.467 | 105 | 1020624 | 67.692  | ug/l | 100    |
| 78) n-propylbenzene        | 12.808 | 91  | 959701  | 51.136  | ug/l | 99     |
| 80) 1,3,5-Trimethylbenzene | 12.949 | 105 | 1508857 | 116.031 | ug/l | 100    |
| 83) tert-Butylbenzene      | 13.208 | 119 | 210331  | 19.138  | ug/l | 87     |
| 84) 1,2,4-Trimethylbenzene | 13.255 | 105 | 3266431 | 251.673 | ug/l | 96     |
| 85) sec-Butylbenzene       | 13.390 | 105 | 1374396 | 83.478  | ug/l | # 73   |
| 86) p-Isopropyltoluene     | 13.502 | 119 | 462077  | 33.668  | ug/l | 94     |
| 89) n-Butylbenzene         | 13.826 | 91  | 891390  | 68.850  | ug/l | # 75   |
| 95) Naphthalene            | 15.379 | 128 | 412343  | 52.272  | ug/l | # 80   |

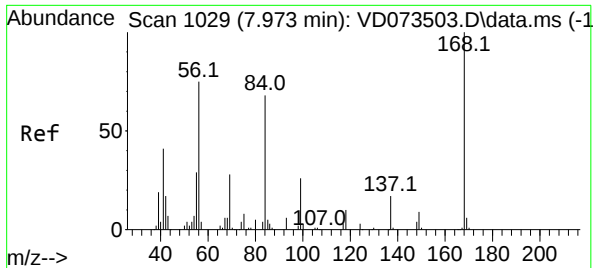
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061522\  
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Sample : N3304-17  
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MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

Quant Time: Jun 15 18:39:08 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 09 12:33:32 2022  
Response via : Initial Calibration

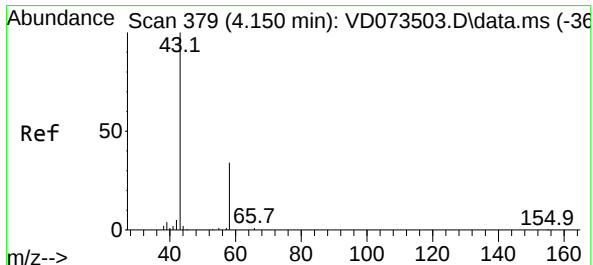
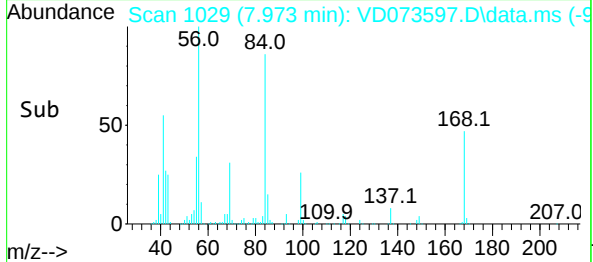
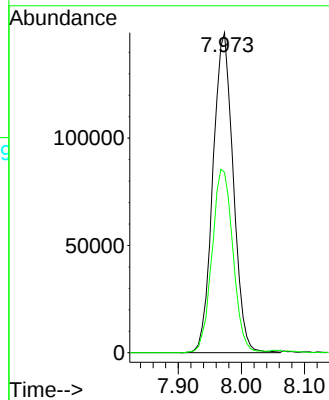
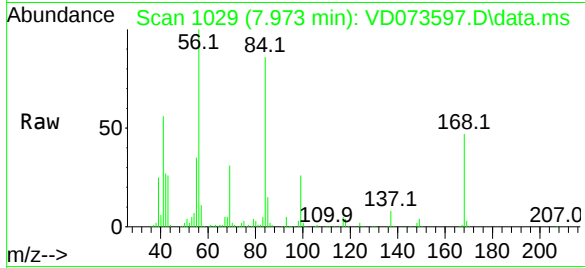




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

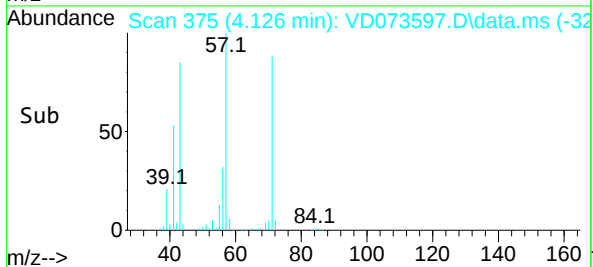
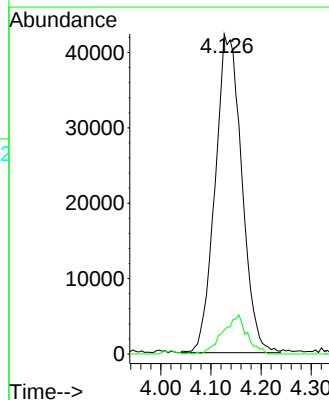
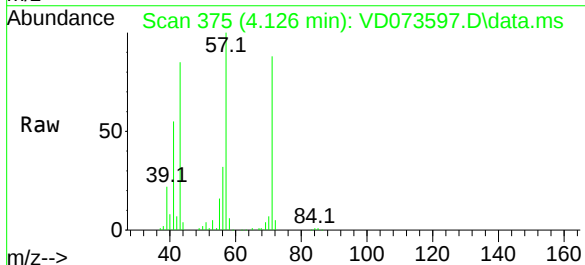
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

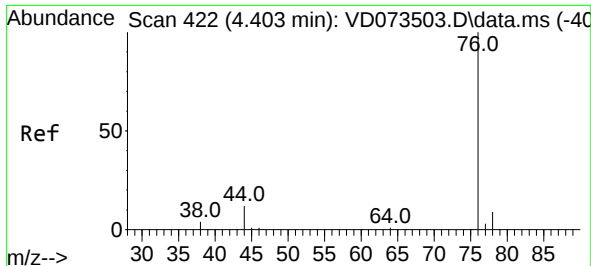
Tgt Ion:168 Resp: 333175  
Ion Ratio Lower Upper  
168 100  
99 56.3 49.8 74.6



#16  
Acetone  
Concen: 247.592 ug/l  
RT: 4.126 min Scan# 375  
Delta R.T. -0.024 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion: 43 Resp: 155870  
Ion Ratio Lower Upper  
43 100  
58 7.5 22.1 33.1#

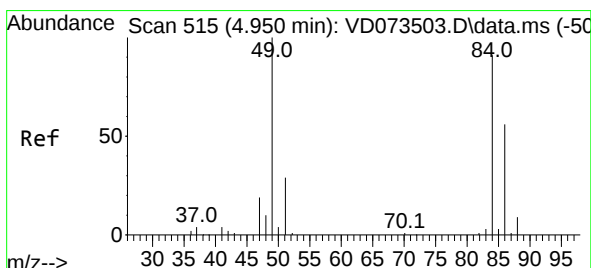
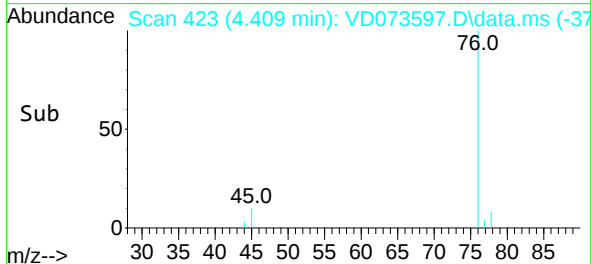
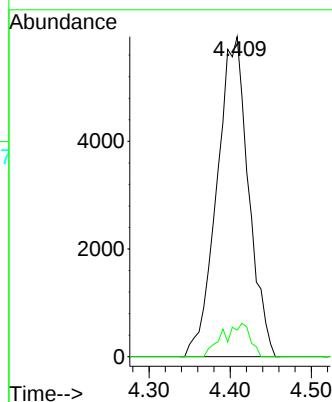
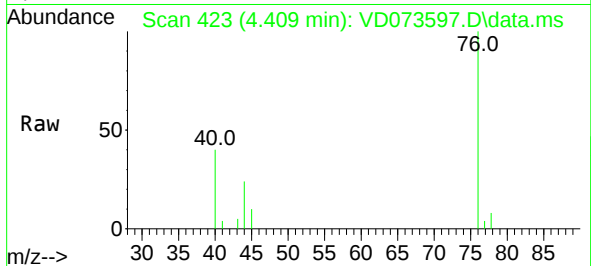




#17  
Carbon Disulfide  
Concen: 1.557 ug/l  
RT: 4.409 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

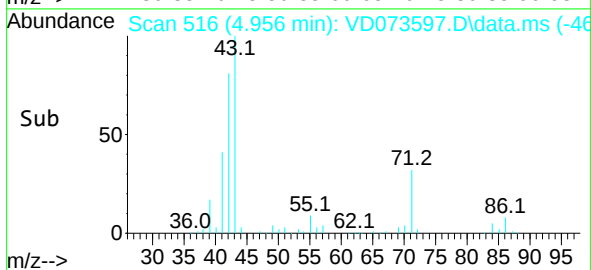
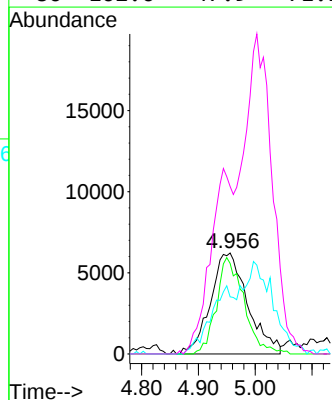
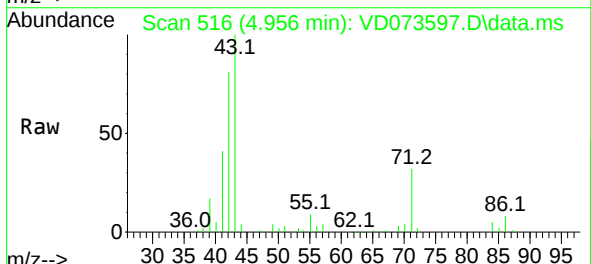
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

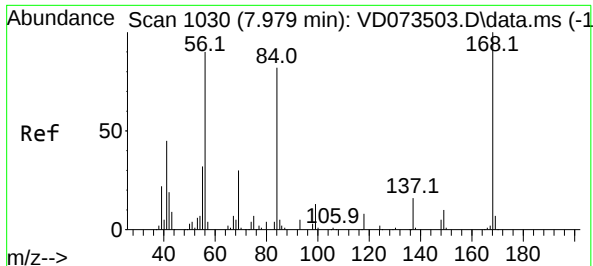
Tgt Ion: 76 Resp: 16049  
Ion Ratio Lower Upper  
76 100  
78 8.3 7.5 11.3



#20  
Methylene Chloride  
Concen: 4.189 ug/l  
RT: 4.956 min Scan# 516  
Delta R.T. 0.006 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion: 84 Resp: 28331  
Ion Ratio Lower Upper  
84 100  
49 89.6 112.8 169.2#  
51 56.6 32.6 48.8#  
86 162.6 47.9 71.9#

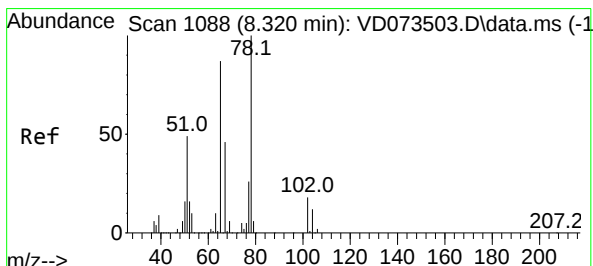
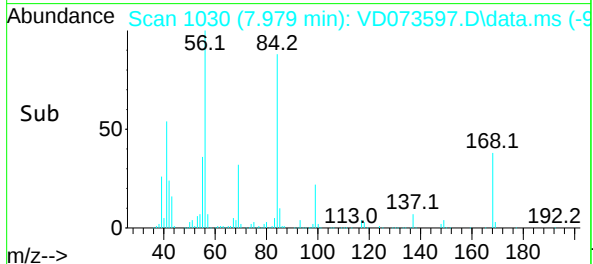
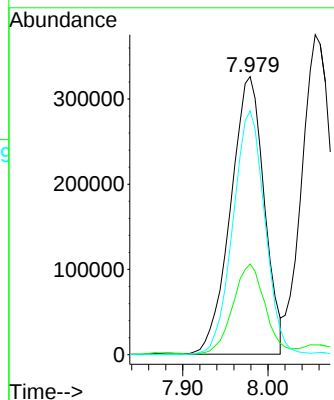
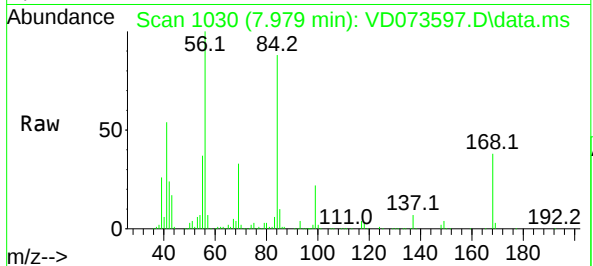




#31  
Cyclohexane  
Concen: 148.496 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

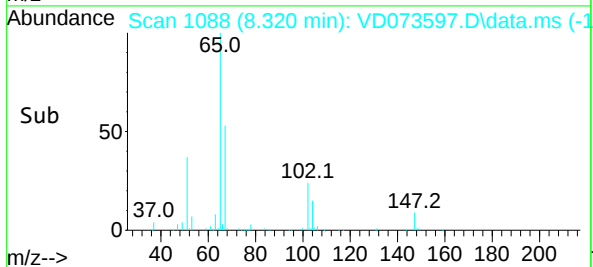
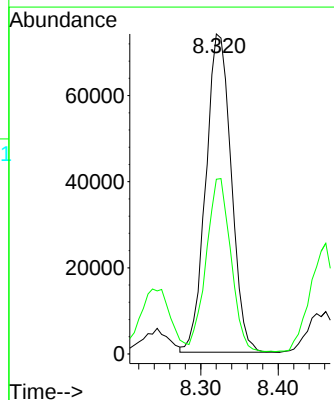
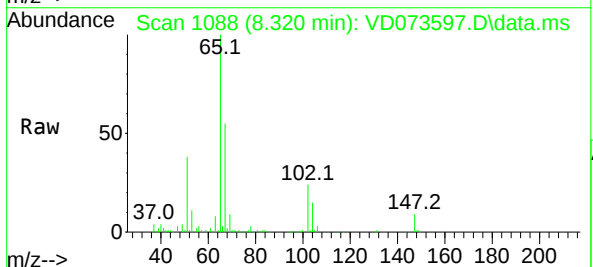
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

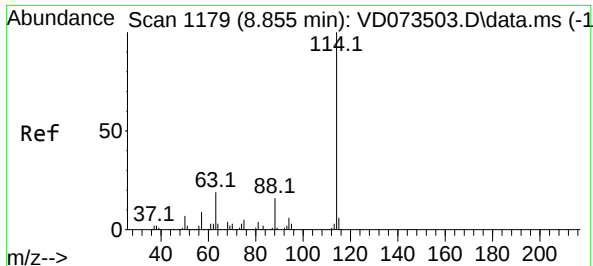
Tgt Ion: 56 Resp: 894390  
Ion Ratio Lower Upper  
56 100  
69 32.2 25.4 38.2  
84 87.9 63.0 94.4



#33  
1,2-Dichloroethane-d4  
Concen: 47.188 ug/l  
RT: 8.320 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion: 65 Resp: 168717  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073597.D

Acq: 15 Jun 2022 18:01

Instrument :

MSVOA\_D

ClientSampleId :

WC-14A-1A-9

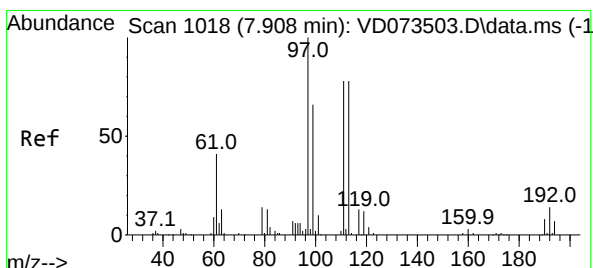
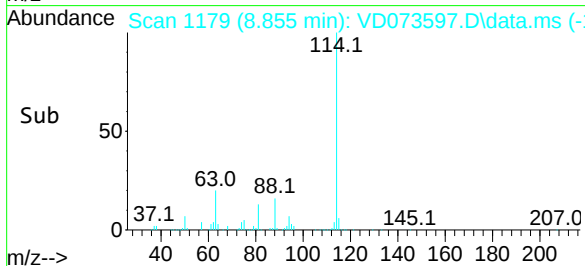
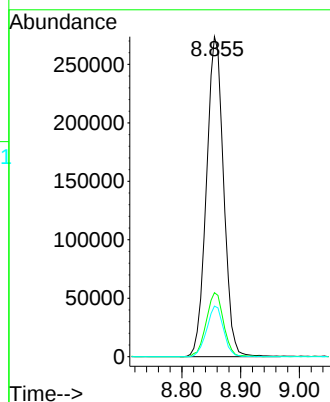
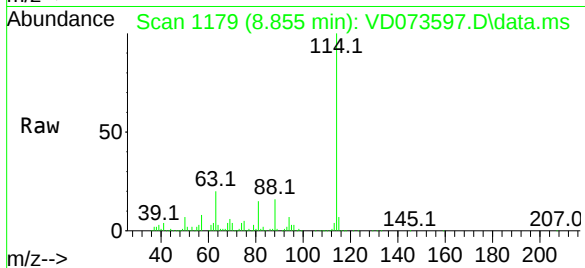
Tgt Ion:114 Resp: 554030

Ion Ratio Lower Upper

114 100

63 20.0 0.0 46.6

88 15.8 0.0 33.2



#35

Dibromofluoromethane

Concen: 47.035 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073597.D

Acq: 15 Jun 2022 18:01

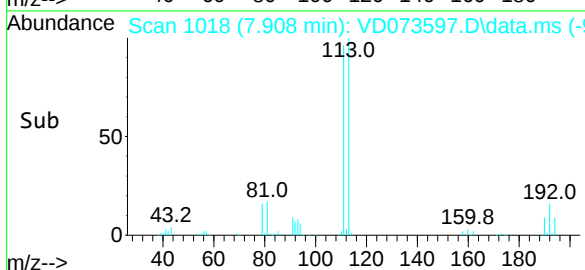
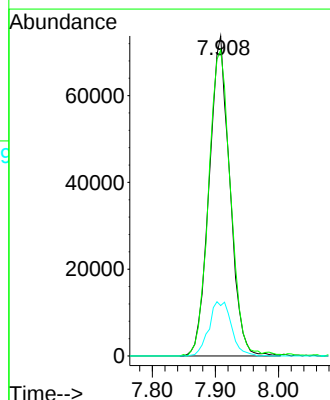
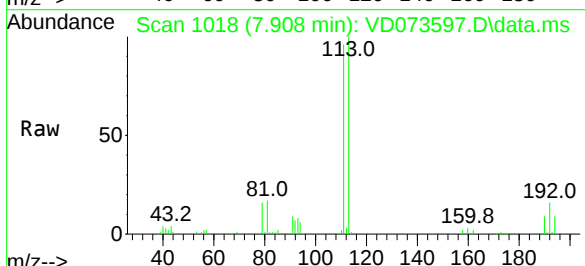
Tgt Ion:113 Resp: 167569

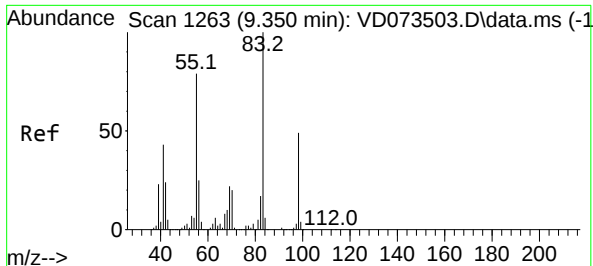
Ion Ratio Lower Upper

113 100

111 100.8 83.8 125.6

192 18.5 14.6 21.8





#39

Methylcyclohexane

Concen: 817.176 ug/l

RT: 9.350 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD073597.D

Acq: 15 Jun 2022 18:01

Instrument :

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ClientSampleId :

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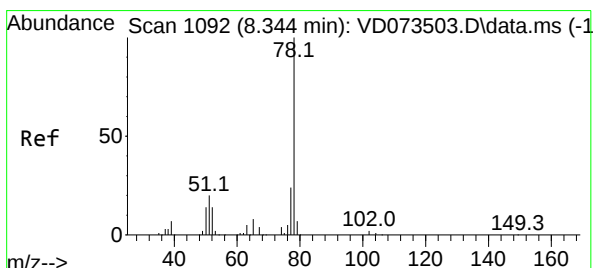
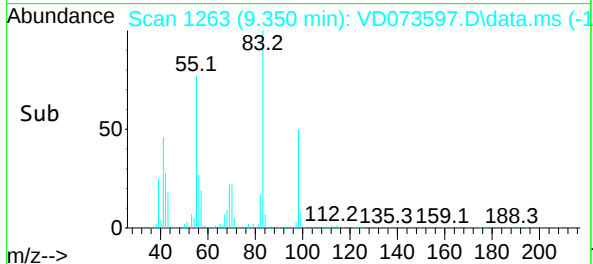
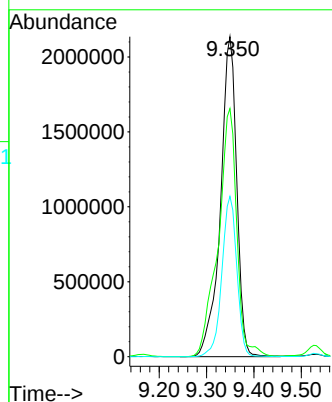
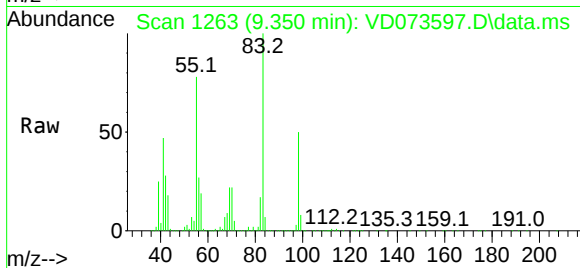
Tgt Ion: 83 Resp: 5095488

Ion Ratio Lower Upper

83 100

55 77.5 63.2 94.8

98 50.1 38.2 57.4



#40

Benzene

Concen: 1.160 ug/l

RT: 8.344 min Scan# 1092

Delta R.T. -0.000 min

Lab File: VD073597.D

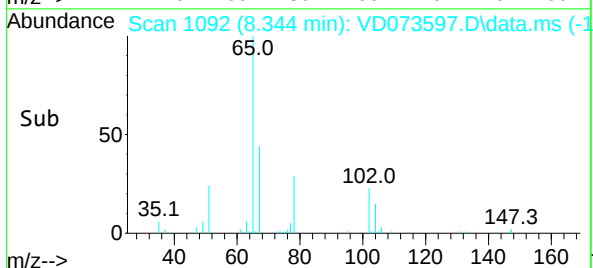
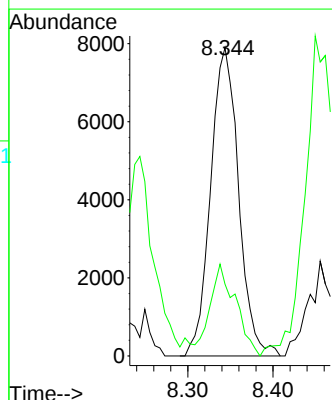
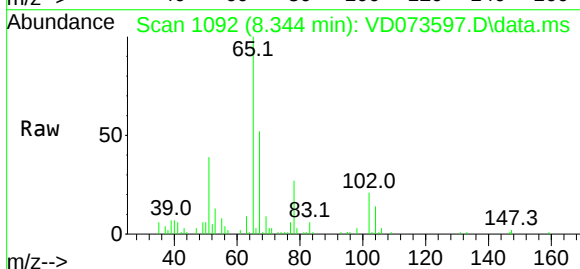
Acq: 15 Jun 2022 18:01

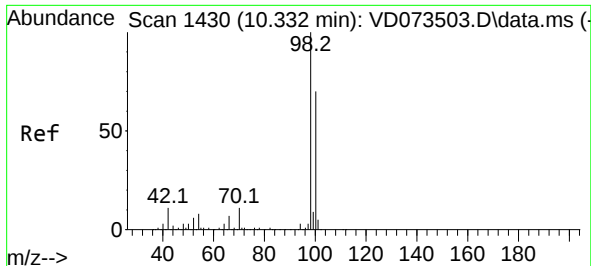
Tgt Ion: 78 Resp: 18056

Ion Ratio Lower Upper

78 100

77 20.4 19.1 28.7

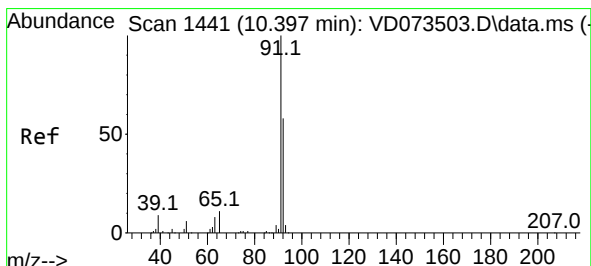
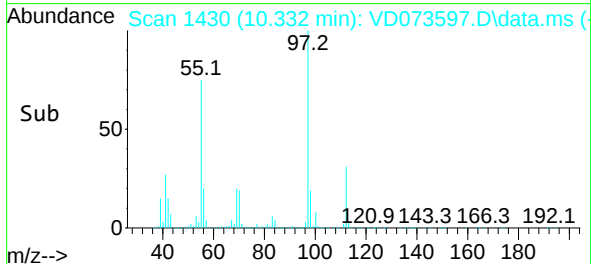
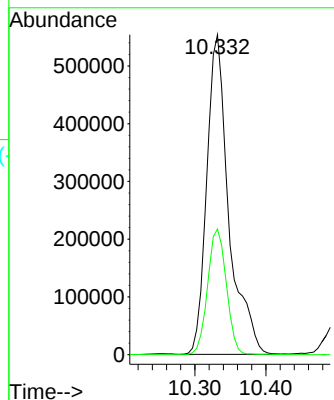
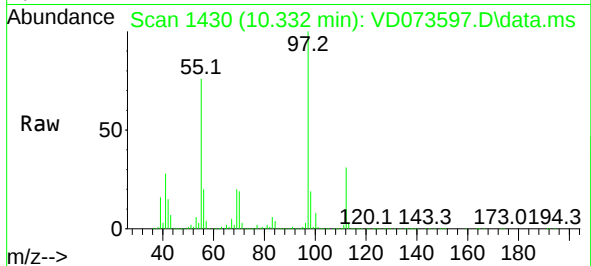




#50  
Toluene-d8  
Concen: 88.870 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

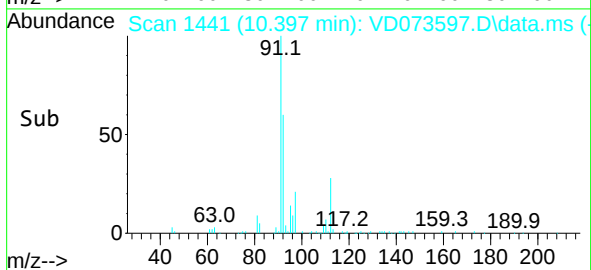
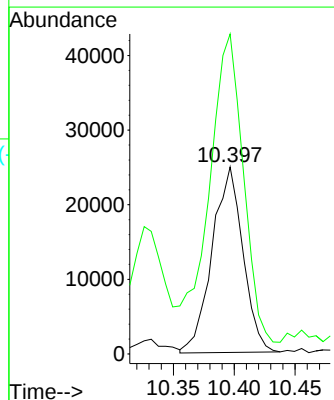
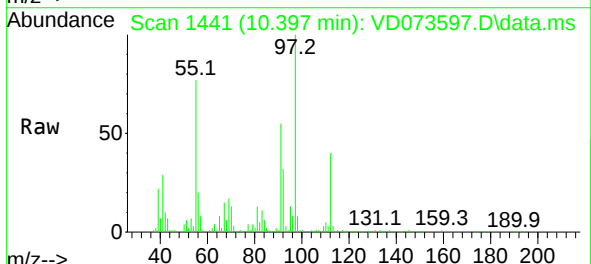
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

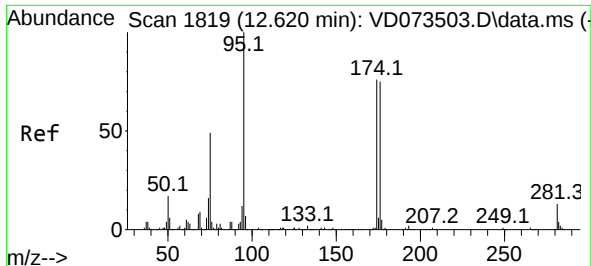
Tgt Ion: 98 Resp: 1197063  
Ion Ratio Lower Upper  
98 100  
100 33.4 52.4 78.6#



#52  
Toluene  
Concen: 4.387 ug/l  
RT: 10.397 min Scan# 1441  
Delta R.T. -0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion: 92 Resp: 43789  
Ion Ratio Lower Upper  
92 100  
91 180.8 139.6 209.4

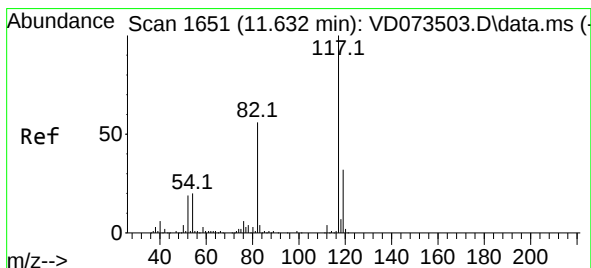
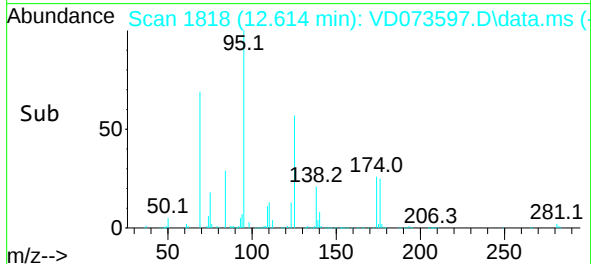
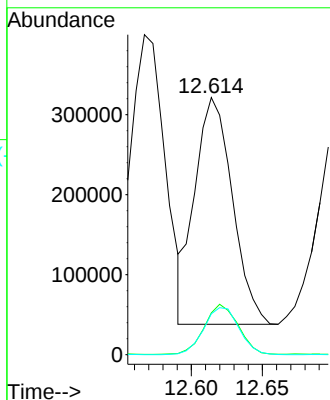
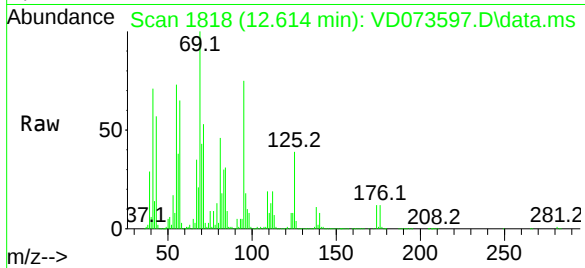




#62  
4-Bromofluorobenzene  
Concen: 107.077 ug/l  
RT: 12.614 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

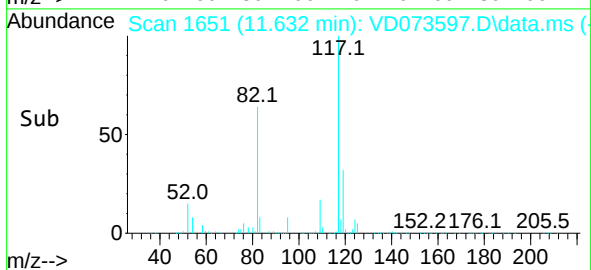
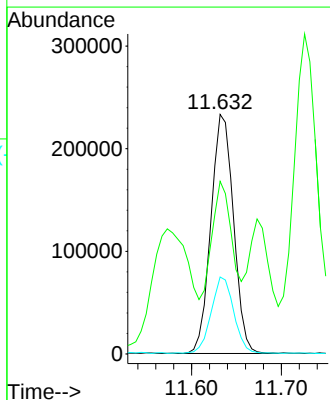
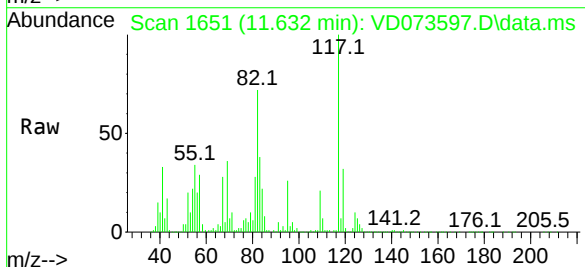
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

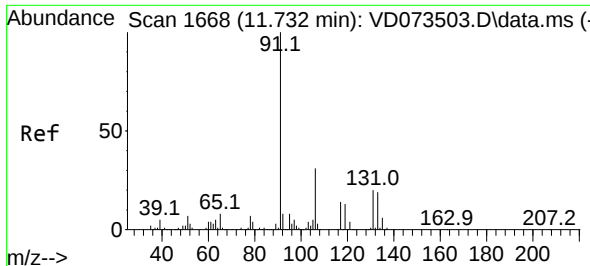
Tgt Ion: 95 Resp: 523598  
Ion Ratio Lower Upper  
95 100  
174 19.9 0.0 152.8  
176 19.5 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion: 117 Resp: 408223  
Ion Ratio Lower Upper  
117 100  
82 52.4 45.3 67.9  
119 31.8 26.6 40.0





#67

Ethyl Benzene

Concen: 27.773 ug/l

RT: 11.732 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD073597.D

Acq: 15 Jun 2022 18:01

Instrument :

MSVOA\_D

ClientSampleId :

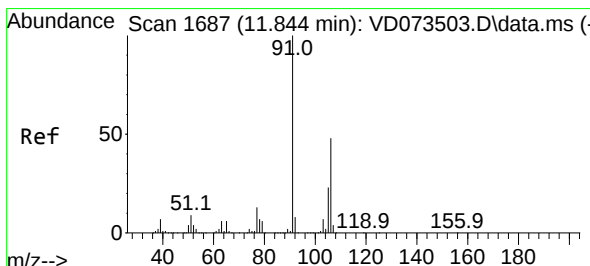
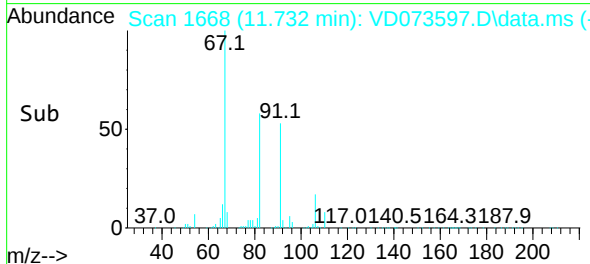
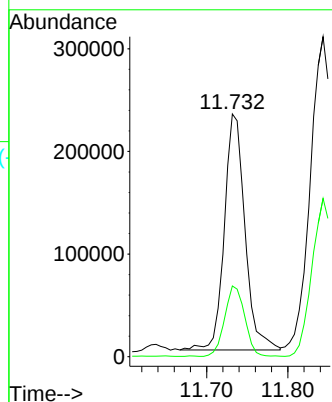
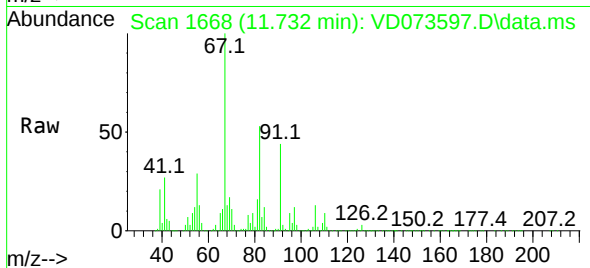
WC-14A-1A-9

Tgt Ion: 91 Resp: 407661

Ion Ratio Lower Upper

91 100

106 29.8 24.2 36.4



#68

m/p-Xylenes

Concen: 49.349 ug/l

RT: 11.844 min Scan# 1687

Delta R.T. -0.000 min

Lab File: VD073597.D

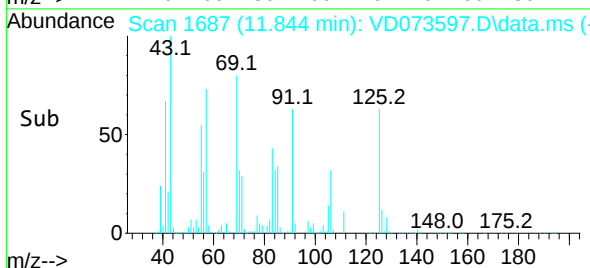
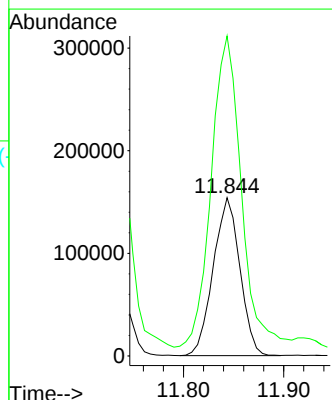
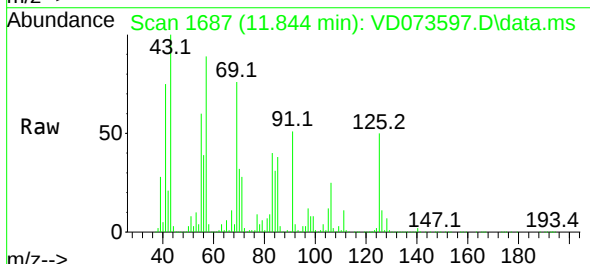
Acq: 15 Jun 2022 18:01

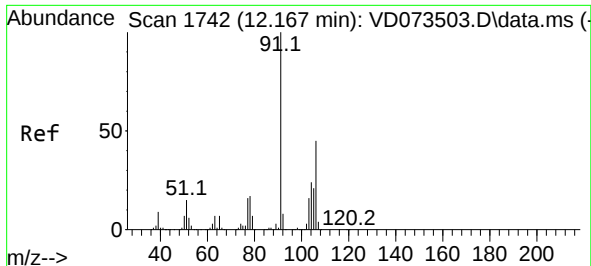
Tgt Ion: 106 Resp: 284252

Ion Ratio Lower Upper

106 100

91 221.4 163.7 245.5

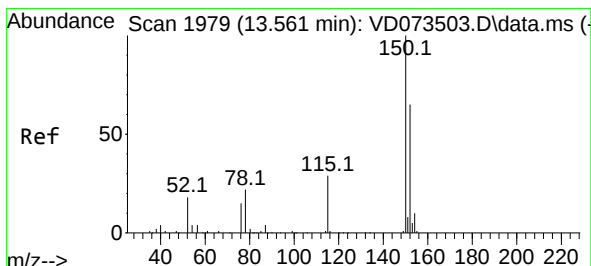
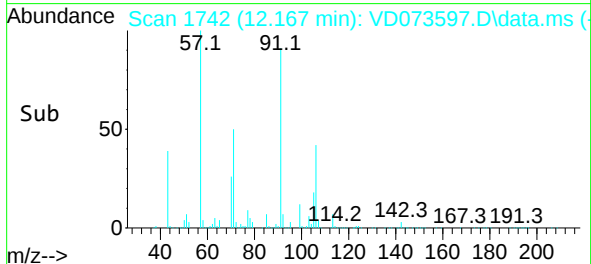
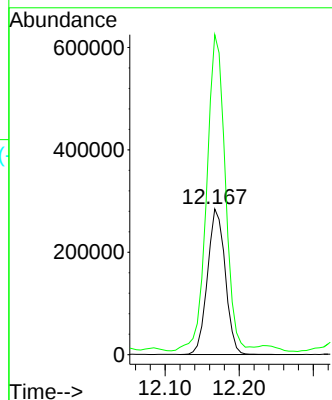
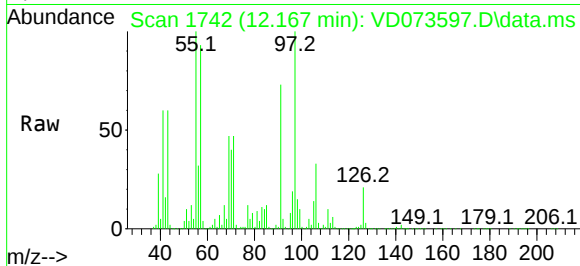




#69  
o-Xylene  
Concen: 89.569 ug/l  
RT: 12.167 min Scan# 1742  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

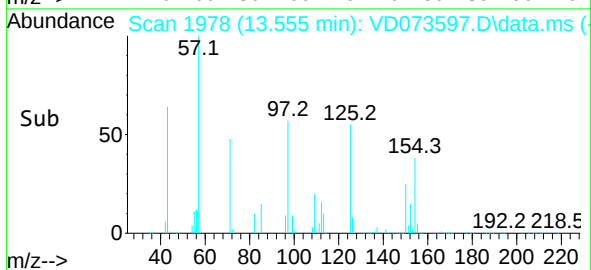
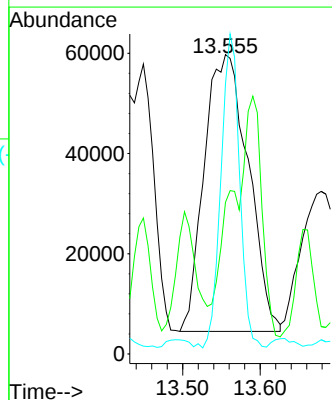
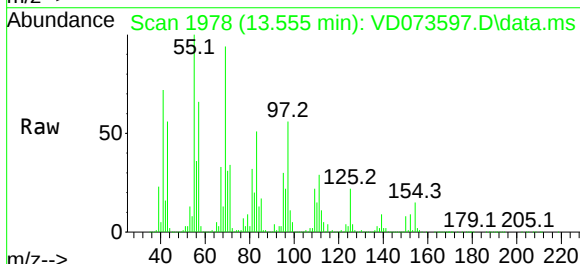
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

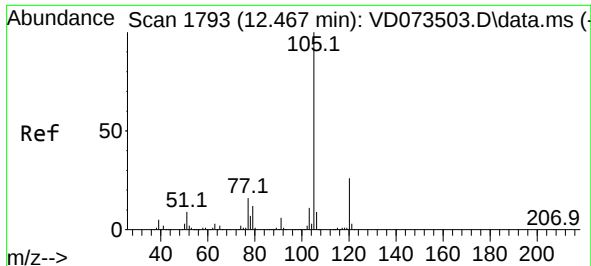
Tgt Ion:106 Resp: 474728  
Ion Ratio Lower Upper  
106 100  
91 226.5 110.4 331.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.555 min Scan# 1978  
Delta R.T. -0.006 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion:152 Resp: 217526  
Ion Ratio Lower Upper  
152 100  
115 0.0 31.3 93.8#  
150 48.1 0.0 348.6

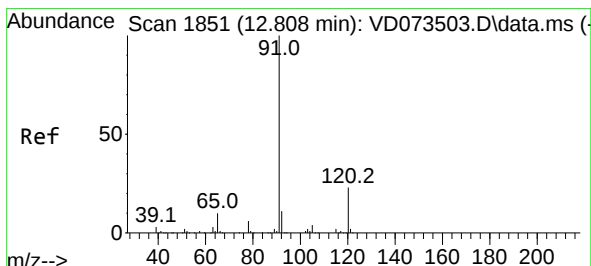
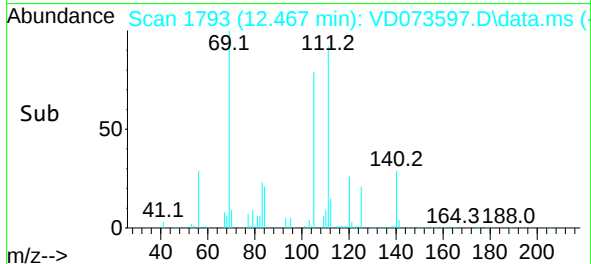
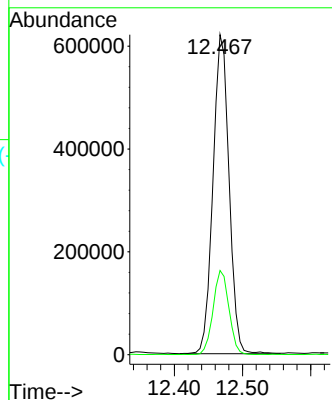
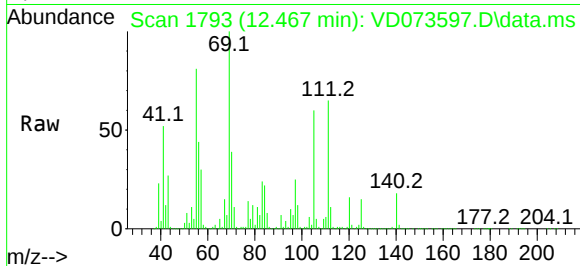




#73  
Isopropylbenzene  
Concen: 67.692 ug/l  
RT: 12.467 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

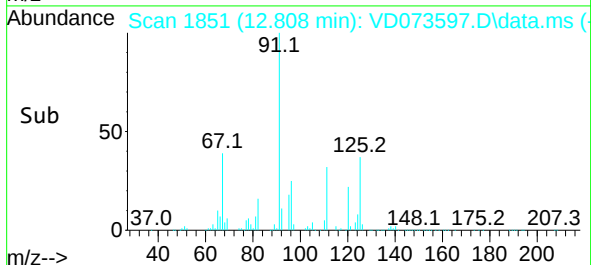
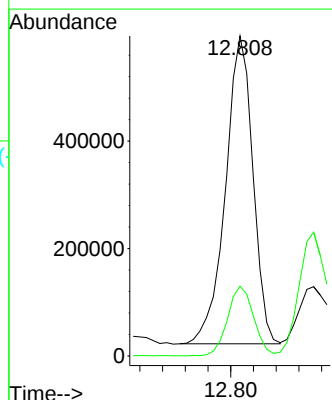
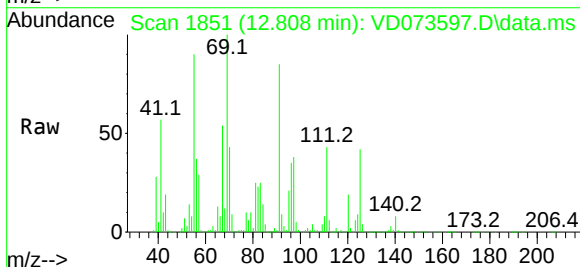
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

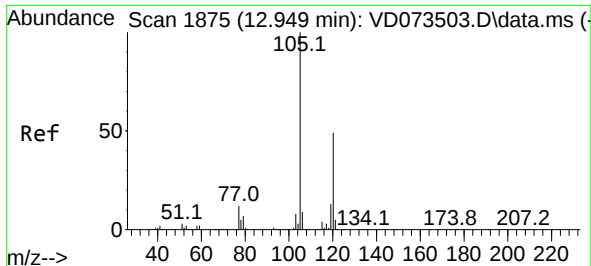
Tgt Ion:105 Resp: 1020624  
Ion Ratio Lower Upper  
105 100  
120 25.8 13.0 38.9



#78  
n-propylbenzene  
Concen: 51.136 ug/l  
RT: 12.808 min Scan# 1851  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion: 91 Resp: 959701  
Ion Ratio Lower Upper  
91 100  
120 21.4 10.9 32.9

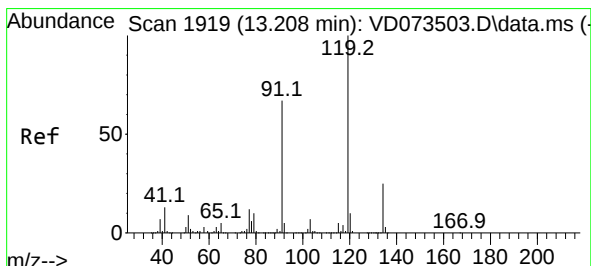
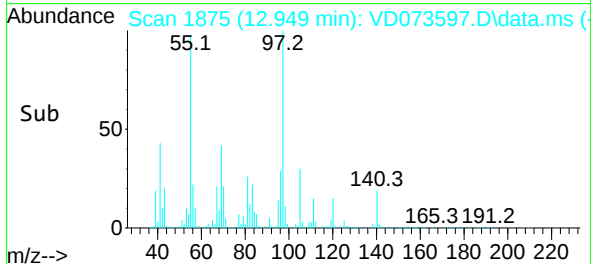
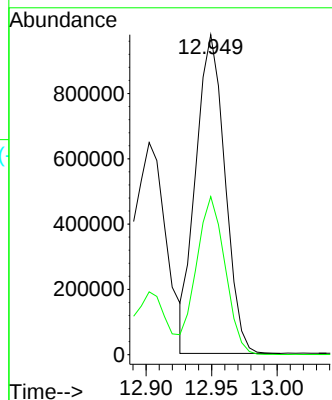
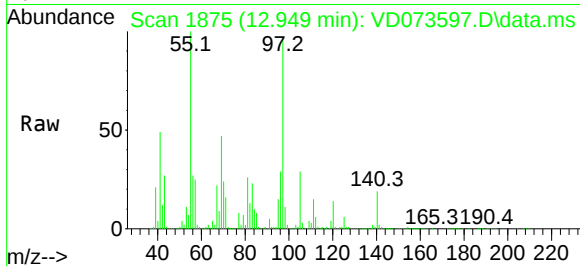




#80  
1,3,5-Trimethylbenzene  
Concen: 116.031 ug/l  
RT: 12.949 min Scan# 1875  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

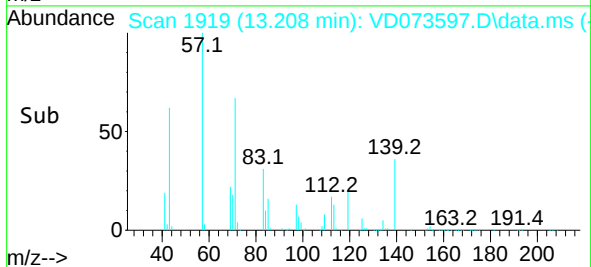
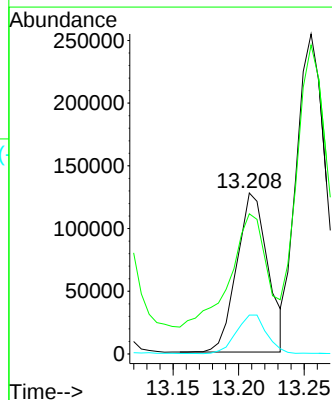
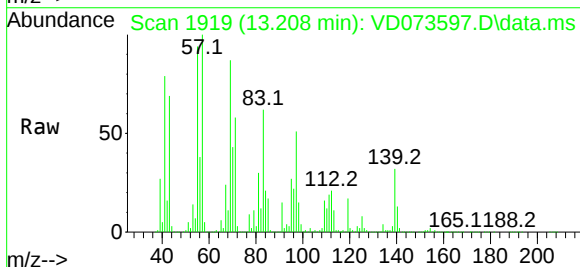
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

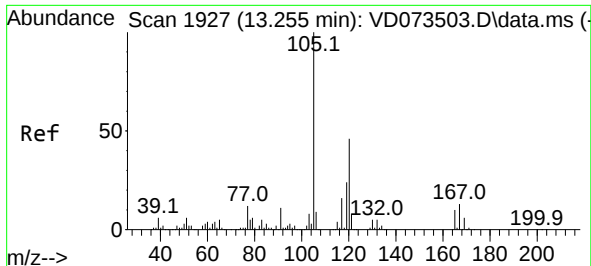
Tgt Ion:105 Resp: 1508857  
Ion Ratio Lower Upper  
105 100  
120 48.7 24.3 72.8



#83  
tert-Butylbenzene  
Concen: 19.138 ug/l  
RT: 13.208 min Scan# 1919  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion:119 Resp: 210331  
Ion Ratio Lower Upper  
119 100  
91 82.3 34.8 104.5  
134 23.6 13.3 39.9

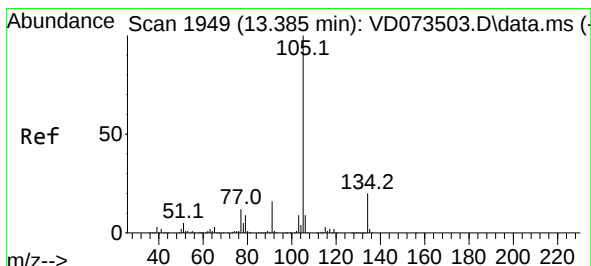
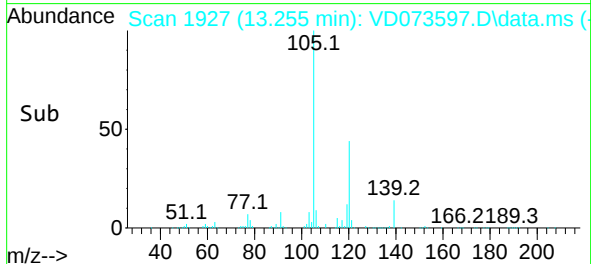
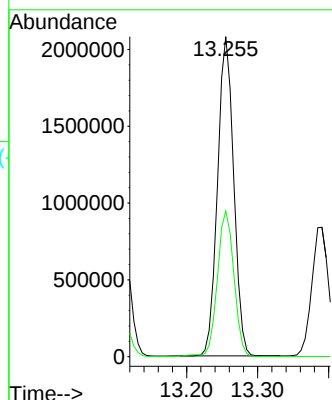
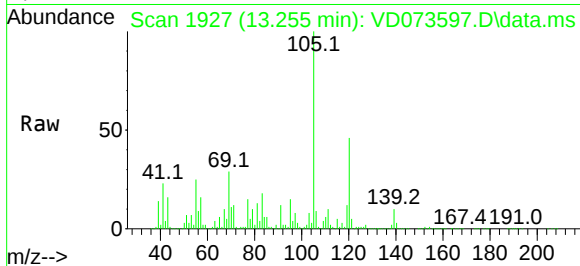




#84  
1,2,4-Trimethylbenzene  
Concen: 251.673 ug/l  
RT: 13.255 min Scan# 1927  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

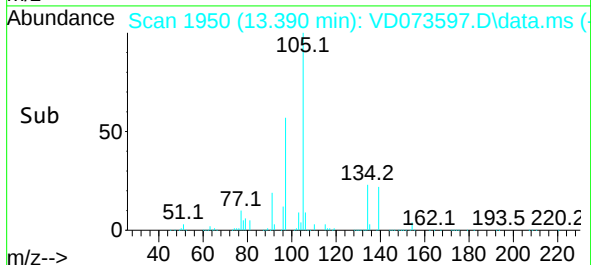
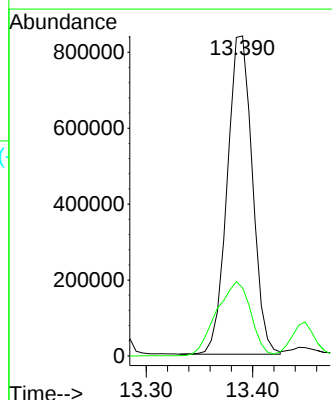
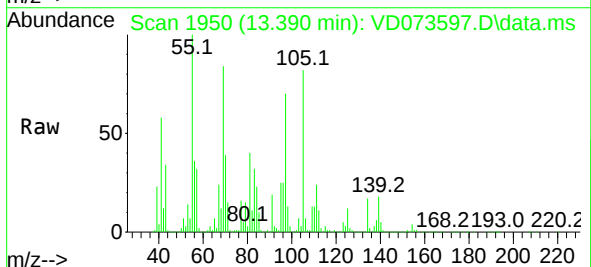
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9

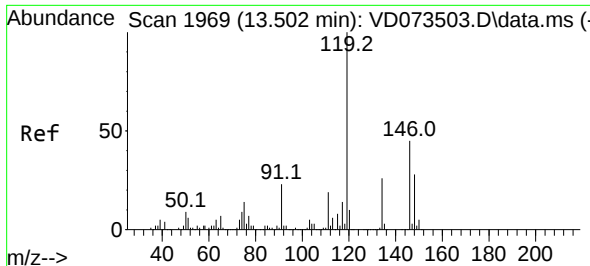
Tgt Ion:105 Resp: 3266431  
Ion Ratio Lower Upper  
105 100  
120 46.8 22.3 66.8



#85  
sec-Butylbenzene  
Concen: 83.478 ug/l  
RT: 13.390 min Scan# 1950  
Delta R.T. 0.005 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Tgt Ion:105 Resp: 1374396  
Ion Ratio Lower Upper  
105 100  
134 31.7 9.8 29.3#

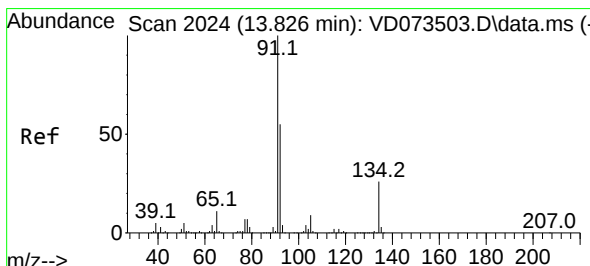
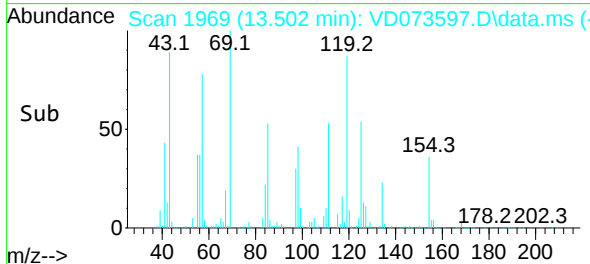
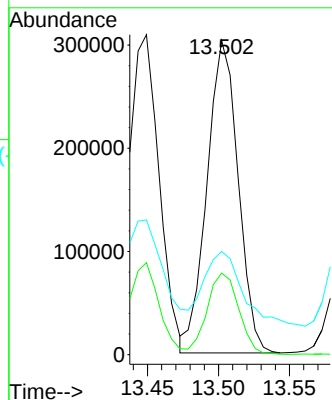
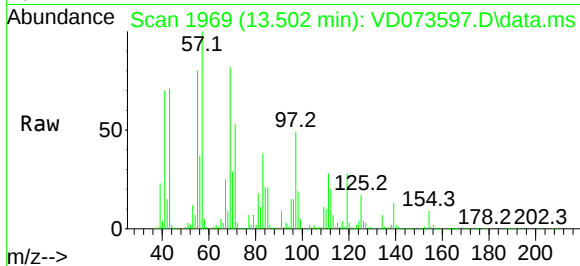




#86  
p-Isopropyltoluene  
Concen: 33.668 ug/l  
RT: 13.502 min Scan# 1969  
Delta R.T. 0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

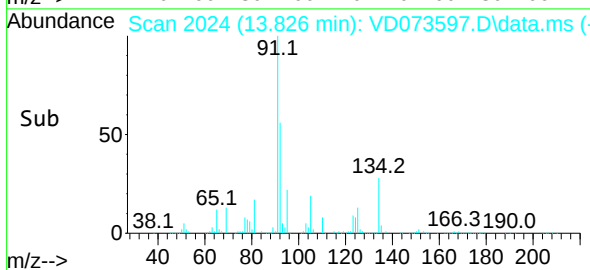
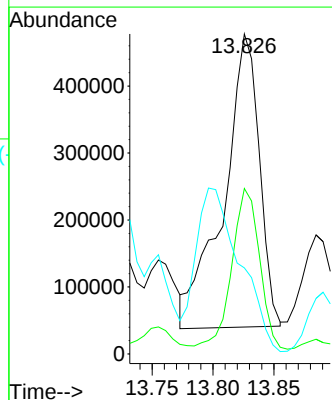
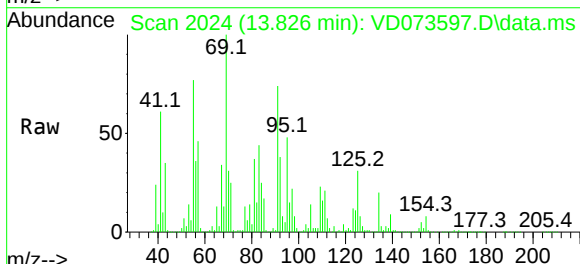
Instrument :  
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ClientSampleId :  
WC-14A-1A-9

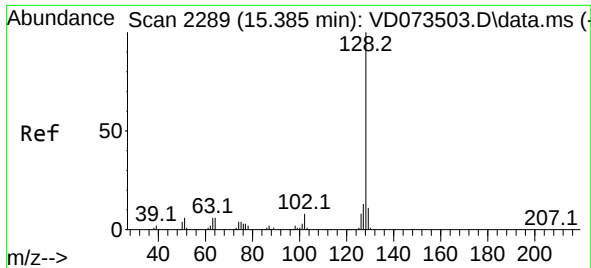
Tgt Ion:119 Resp: 462077  
Ion Ratio Lower Upper  
119 100  
134 26.2 12.9 38.6  
91 29.5 12.1 36.3



#89  
n-Butylbenzene  
Concen: 68.850 ug/l  
RT: 13.826 min Scan# 2024  
Delta R.T. -0.000 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

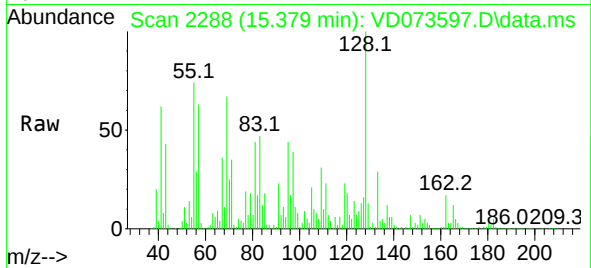
Tgt Ion: 91 Resp: 891390  
Ion Ratio Lower Upper  
91 100  
92 43.2 26.6 79.8  
134 0.0 12.3 36.9#





#95  
Naphthalene  
Concen: 52.272 ug/l  
RT: 15.379 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VD073597.D  
Acq: 15 Jun 2022 18:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-1A-9



Tgt Ion:128 Resp: 412343  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 9.0 8.4 12.6

