

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011723\  
 Data File : VN076285.D  
 Acq On : 17 Jan 2023 19:07  
 Operator : JC\MD  
 Sample : 01190-14  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WS-2

Quant Time: Jan 18 04:10:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.230  | 168  | 357482   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.106  | 114  | 572948   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.871 | 117  | 512941   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 243978   | 50.000 | ug/l  | # 0.00   |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.588  | 65    | 191397   | 47.817   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 95.640%  |
| 35) Dibromofluoromethane    | 8.177  | 113   | 171716   | 47.911   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 95.820%  |
| 50) Toluene-d8              | 10.571 | 98    | 665521   | 50.280   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 100.560% |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 223993   | 51.838   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 103.680% |

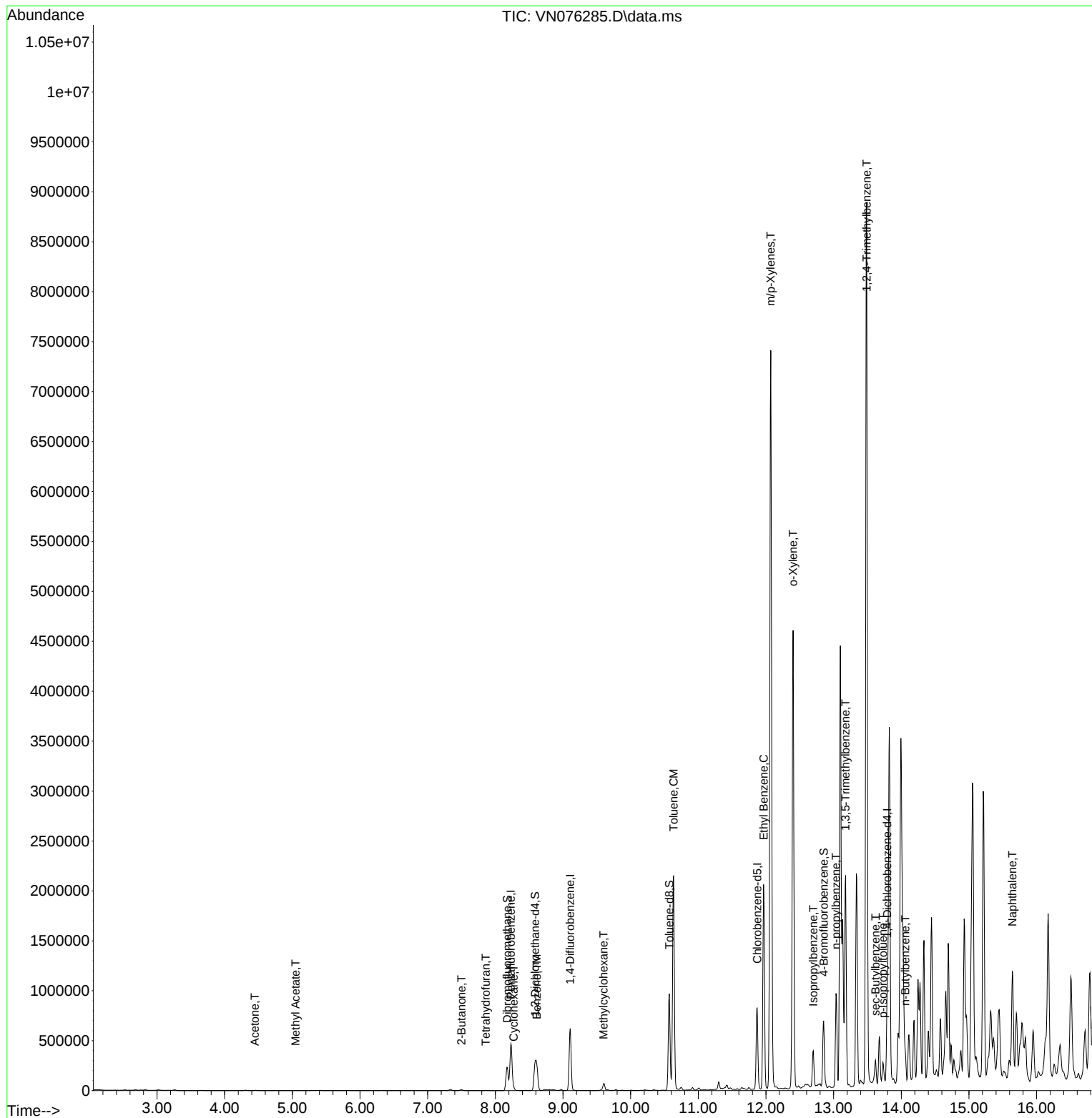
| Target Compounds           |        |     |         |         |      | Qvalue |
|----------------------------|--------|-----|---------|---------|------|--------|
| 16) Acetone                | 4.447  | 43  | 6530    | 5.017   | ug/l | 93     |
| 18) Methyl Acetate         | 5.047  | 43  | 2620    | 0.603   | ug/l | # 80   |
| 25) 2-Butanone             | 7.500  | 43  | 17063   | 8.707   | ug/l | 96     |
| 29) Tetrahydrofuran        | 7.859  | 42  | 1340    | 1.108   | ug/l | # 75   |
| 31) Cyclohexane            | 8.271  | 56  | 24044   | 3.910   | ug/l | 94     |
| 39) Methylcyclohexane      | 9.600  | 83  | 31973   | 5.141   | ug/l | 98     |
| 40) Benzene                | 8.612  | 78  | 246523  | 16.188  | ug/l | 99     |
| 52) Toluene                | 10.635 | 92  | 996904  | 97.892  | ug/l | 98     |
| 67) Ethyl Benzene          | 11.965 | 91  | 1520597 | 81.940  | ug/l | 100    |
| 68) m/p-Xylenes            | 12.071 | 106 | 2404533 | 323.135 | ug/l | 100    |
| 69) o-Xylene               | 12.400 | 106 | 1353568 | 185.227 | ug/l | 100    |
| 73) Isopropylbenzene       | 12.700 | 105 | 256955  | 13.614  | ug/l | 99     |
| 78) n-propylbenzene        | 13.035 | 91  | 759373  | 35.657  | ug/l | 100    |
| 80) 1,3,5-Trimethylbenzene | 13.176 | 105 | 1128440 | 71.366  | ug/l | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.488 | 105 | 5253152 | 331.320 | ug/l | 100    |
| 85) sec-Butylbenzene       | 13.617 | 105 | 161048  | 8.253   | ug/l | 86     |
| 86) p-Isopropyltoluene     | 13.729 | 119 | 114133  | 7.113   | ug/l | 98     |
| 89) n-Butylbenzene         | 14.059 | 91  | 161383  | 12.669  | ug/l | # 77   |
| 95) Naphthalene            | 15.641 | 128 | 1038781 | 80.770  | ug/l | 99     |

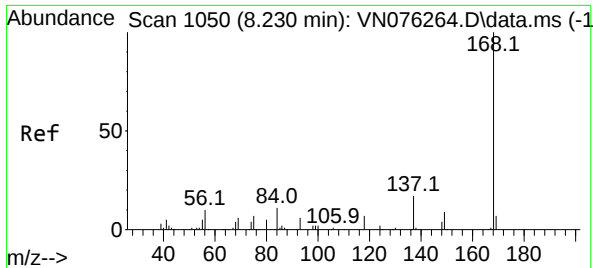
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 18 04:10:21 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 17 03:59:22 2023  
Response via : Initial Calibration

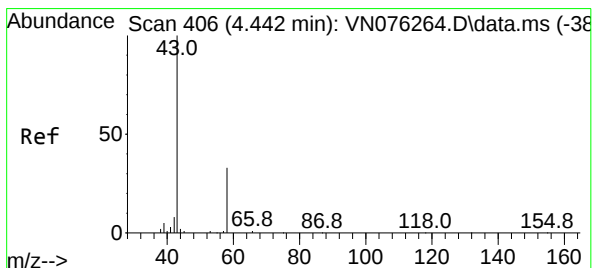
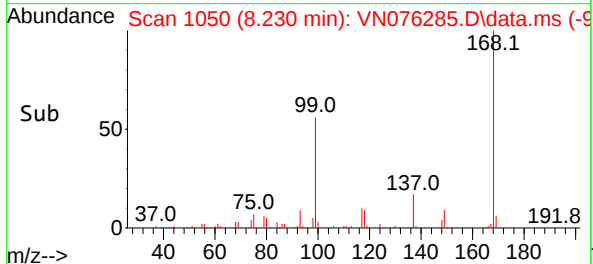
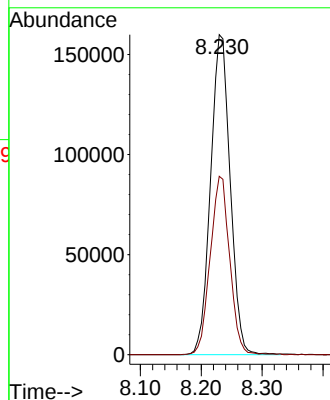
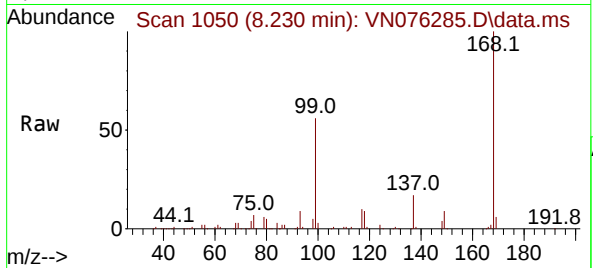




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.000 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

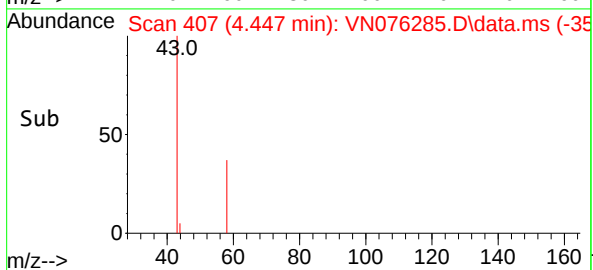
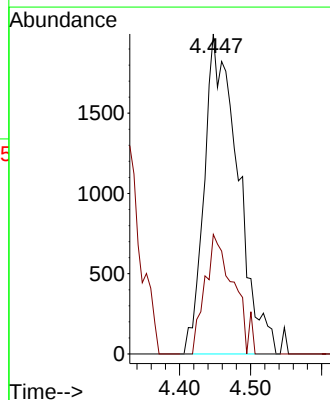
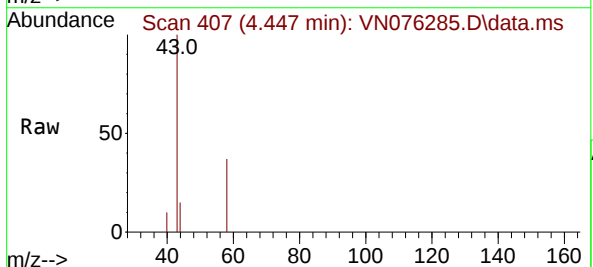
Instrument :  
MSVOA\_N  
ClientSampleId :  
WS-2

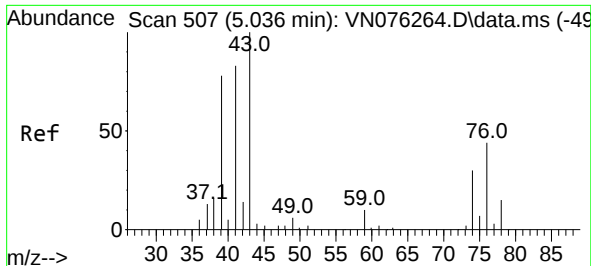
Tgt Ion:168 Resp: 357482  
Ion Ratio Lower Upper  
168 100  
99 55.7 41.6 62.4



#16  
Acetone  
Concen: 5.017 ug/l  
RT: 4.447 min Scan# 407  
Delta R.T. 0.005 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

Tgt Ion: 43 Resp: 6530  
Ion Ratio Lower Upper  
43 100  
58 37.4 26.7 40.1

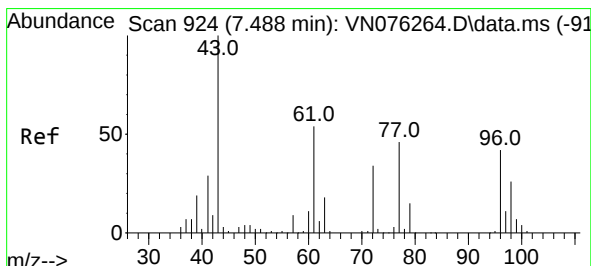
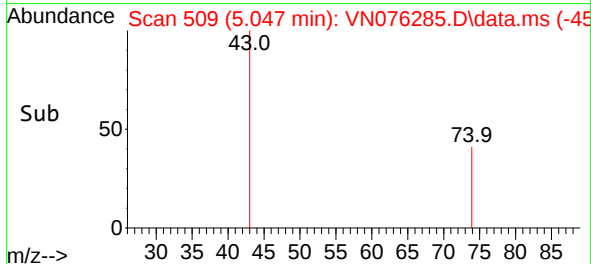
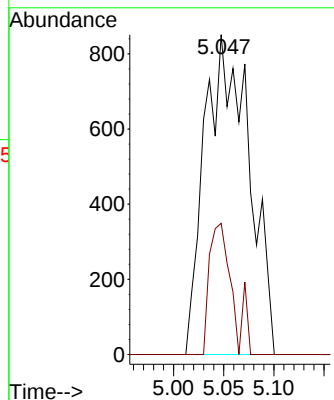
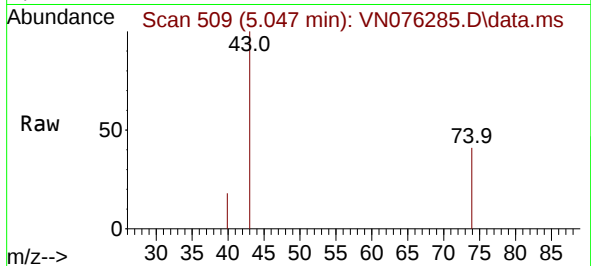




#18  
Methyl Acetate  
Concen: 0.603 ug/l  
RT: 5.047 min Scan# 509  
Delta R.T. 0.011 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

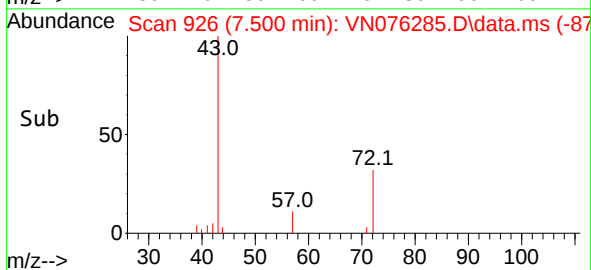
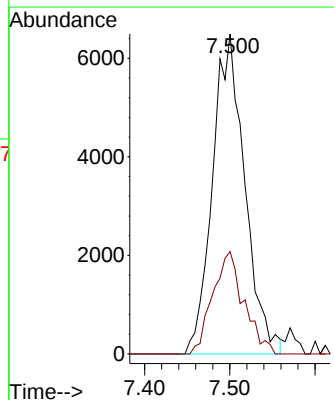
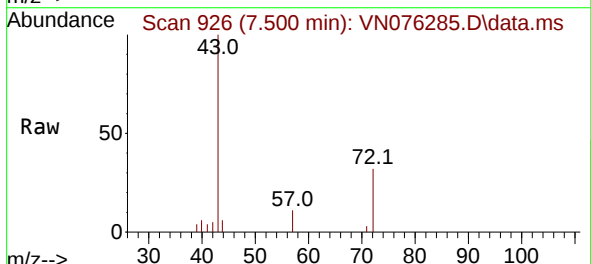
Instrument :  
MSVOA\_N  
ClientSampleId :  
WS-2

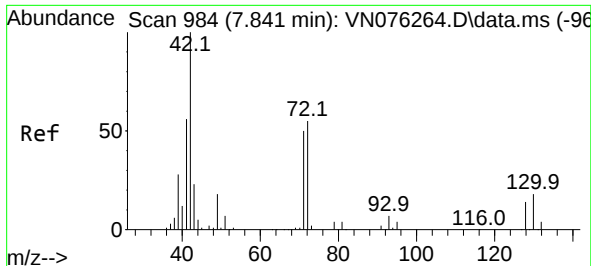
Tgt Ion: 43 Resp: 2620  
Ion Ratio Lower Upper  
43 100  
74 18.3 23.3 34.9#



#25  
2-Butanone  
Concen: 8.707 ug/l  
RT: 7.500 min Scan# 926  
Delta R.T. 0.012 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

Tgt Ion: 43 Resp: 17063  
Ion Ratio Lower Upper  
43 100  
72 32.0 27.4 41.2





#29

Tetrahydrofuran

Concen: 1.108 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

Instrument :

MSVOA\_N

ClientSampleId :

WS-2

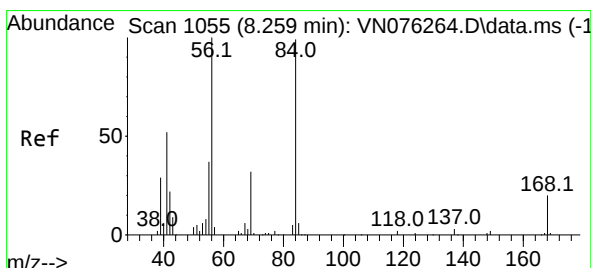
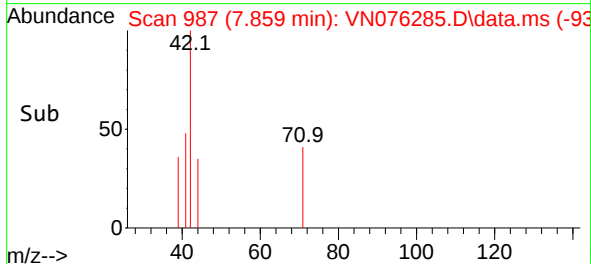
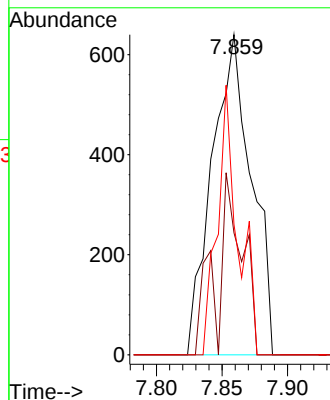
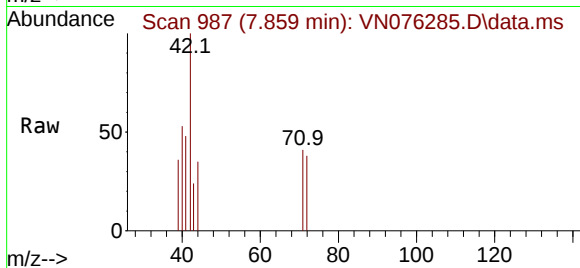
Tgt Ion: 42 Resp: 1340

Ion Ratio Lower Upper

42 100

72 27.2 44.0 66.0#

71 43.9 41.1 61.7



#31

Cyclohexane

Concen: 3.910 ug/l

RT: 8.271 min Scan# 1057

Delta R.T. 0.012 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

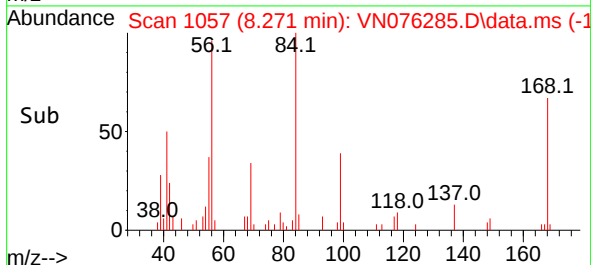
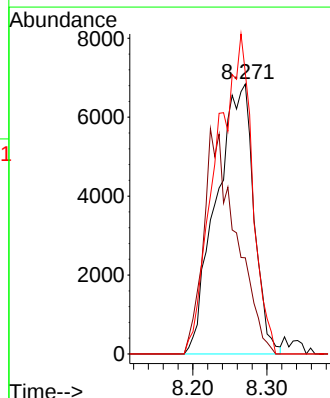
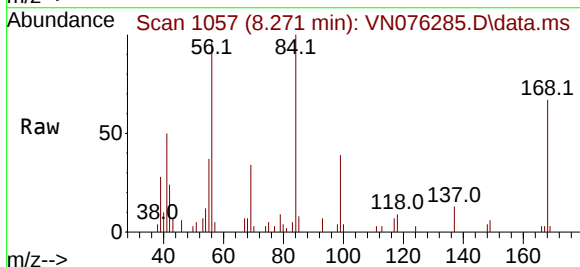
Tgt Ion: 56 Resp: 24044

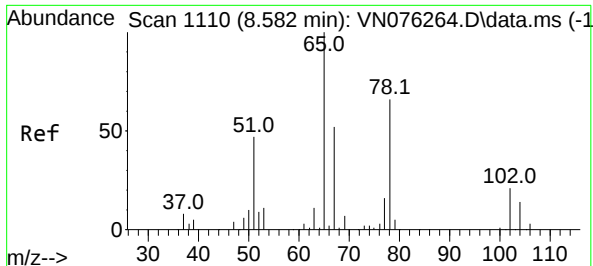
Ion Ratio Lower Upper

56 100

69 35.6 25.8 38.8

84 104.1 79.0 118.4





#33

1,2-Dichloroethane-d4

Concen: 47.817 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

Instrument :

MSVOA\_N

ClientSampleId :

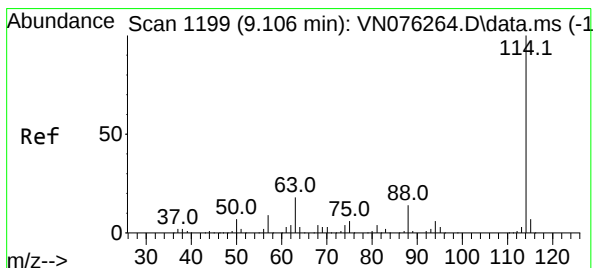
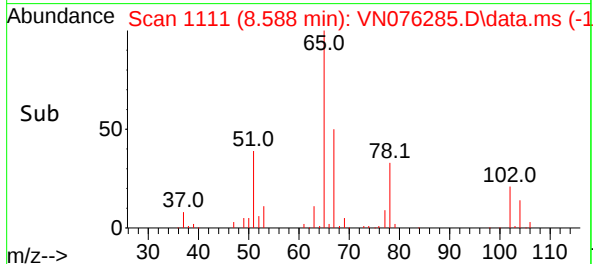
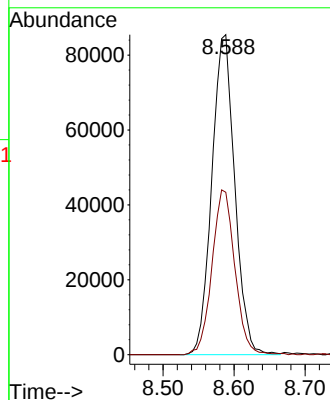
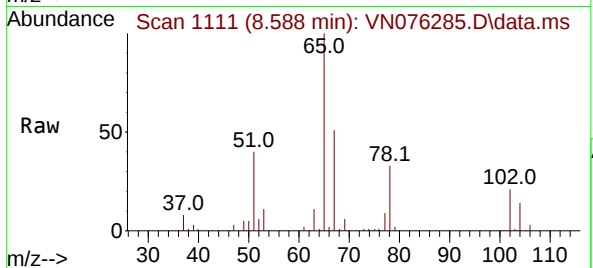
WS-2

Tgt Ion: 65 Resp: 191397

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

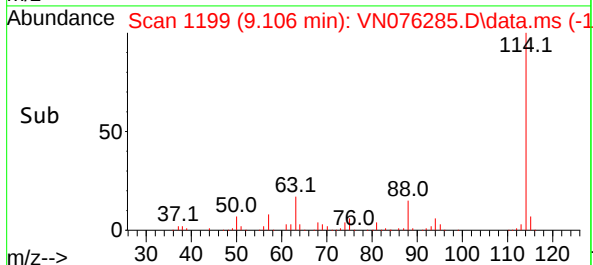
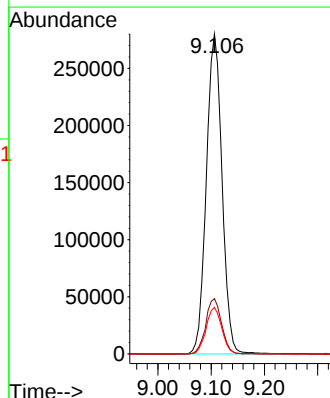
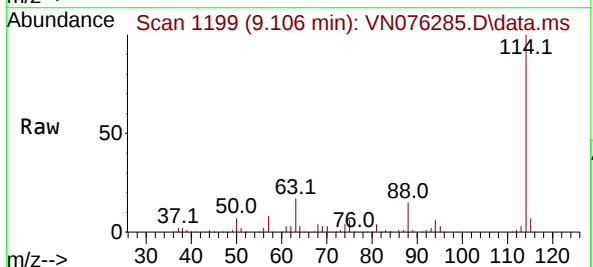
Tgt Ion: 114 Resp: 572948

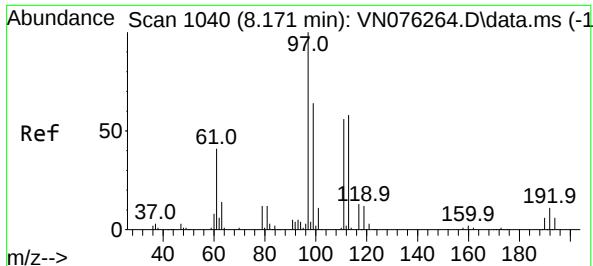
Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.8

88 14.6 0.0 28.0





#35

Dibromofluoromethane

Concen: 47.911 ug/l

RT: 8.177 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

Instrument :

MSVOA\_N

ClientSampleId :

WS-2

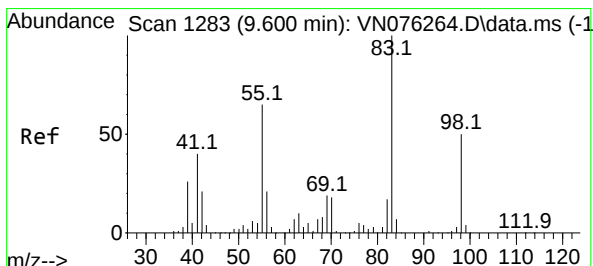
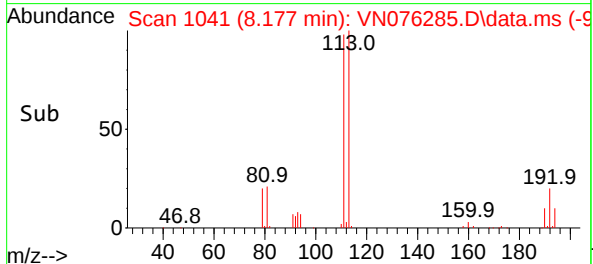
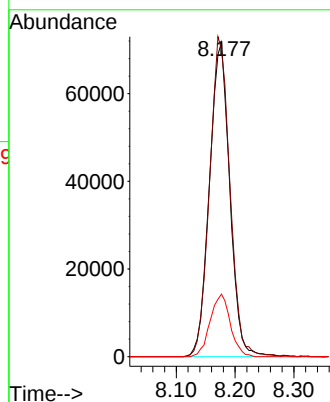
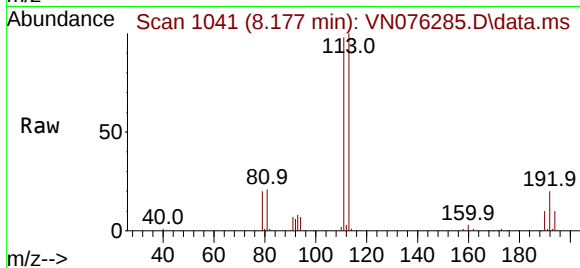
Tgt Ion:113 Resp: 171716

Ion Ratio Lower Upper

113 100

111 102.0 82.7 124.1

192 19.8 15.6 23.4



#39

Methylcyclohexane

Concen: 5.141 ug/l

RT: 9.600 min Scan# 1283

Delta R.T. 0.000 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

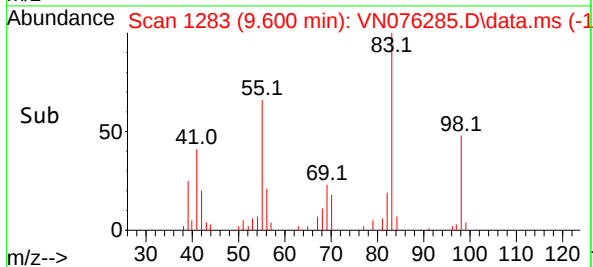
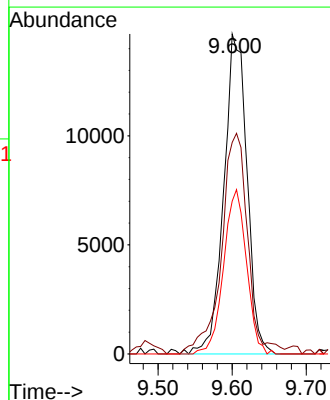
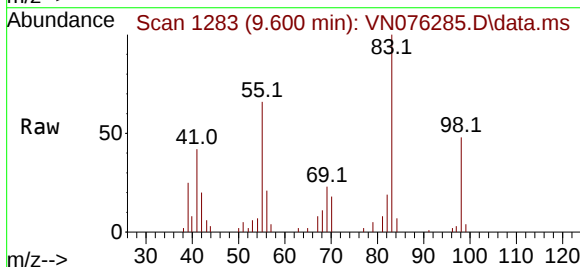
Tgt Ion: 83 Resp: 31973

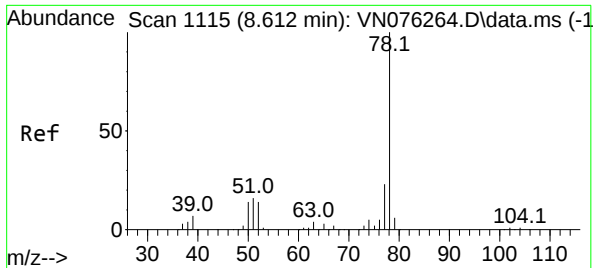
Ion Ratio Lower Upper

83 100

55 66.1 51.7 77.5

98 47.8 40.0 60.0

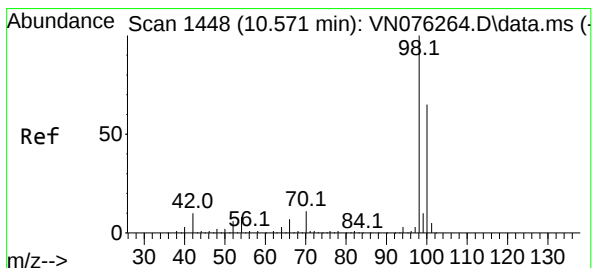
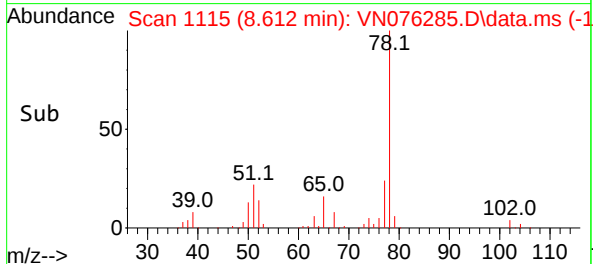
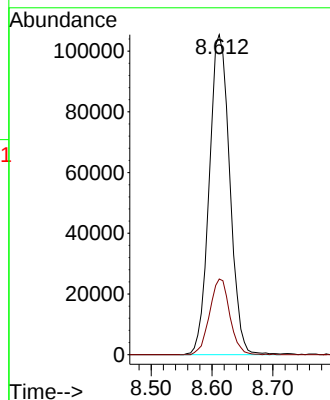
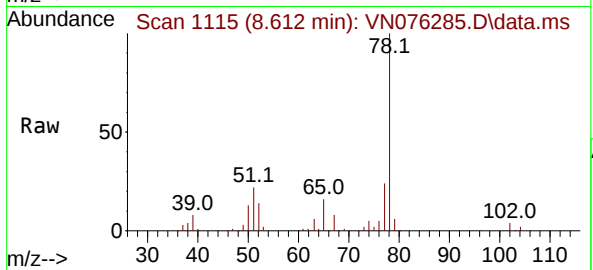




#40  
Benzene  
Concen: 16.188 ug/l  
RT: 8.612 min Scan# 1115  
Delta R.T. -0.000 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

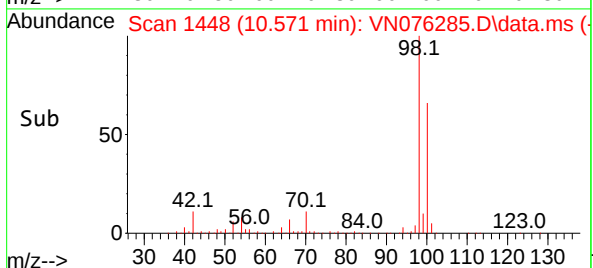
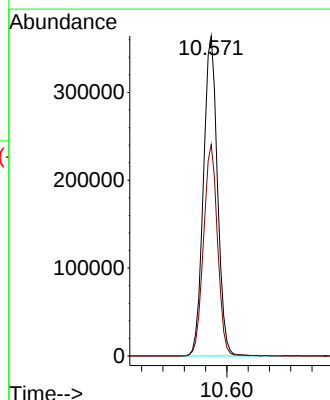
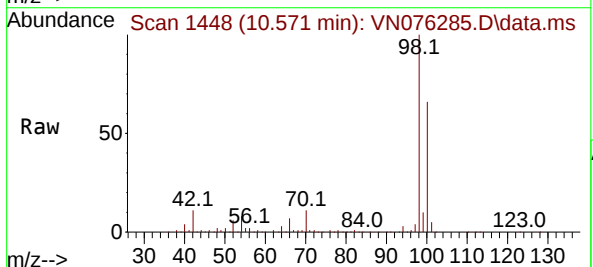
Instrument :  
MSVOA\_N  
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WS-2

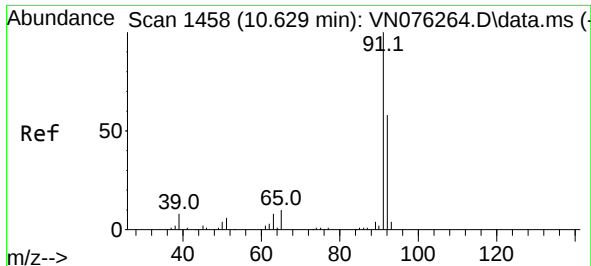
Tgt Ion: 78 Resp: 246523  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.6 28.0



#50  
Toluene-d8  
Concen: 50.280 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. -0.000 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

Tgt Ion: 98 Resp: 665521  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.2 78.4

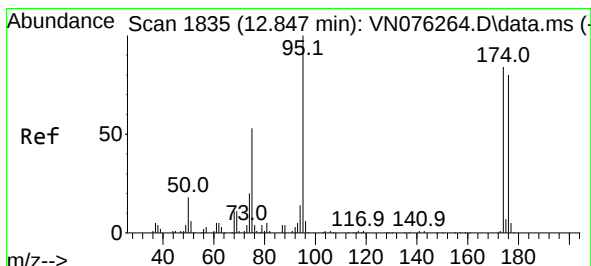
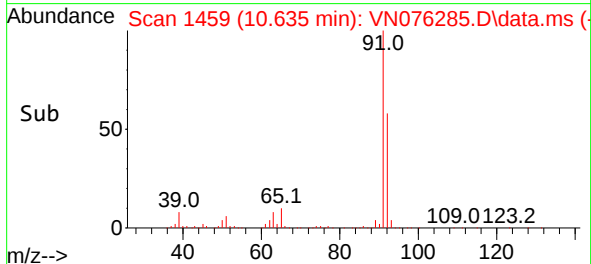
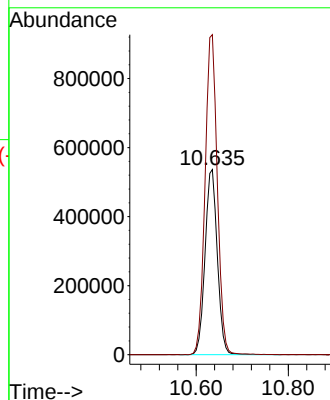
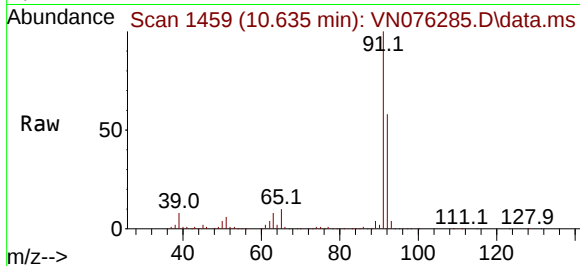




#52  
Toluene  
Concen: 97.892 ug/l  
RT: 10.635 min Scan# 1458  
Delta R.T. 0.006 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

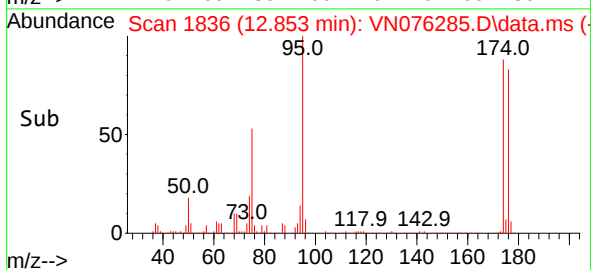
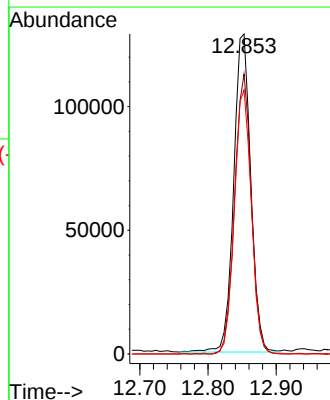
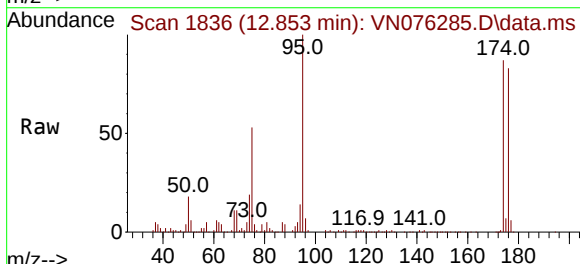
Instrument :  
MSVOA\_N  
ClientSampleId :  
WS-2

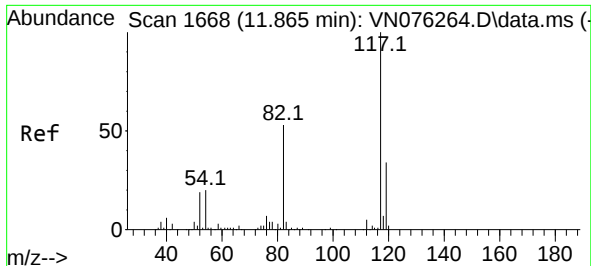
Tgt Ion: 92 Resp: 996904  
Ion Ratio Lower Upper  
92 100  
91 173.0 136.6 205.0



#62  
4-Bromofluorobenzene  
Concen: 51.838 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.006 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

Tgt Ion: 95 Resp: 223993  
Ion Ratio Lower Upper  
95 100  
174 86.0 0.0 174.6  
176 82.5 0.0 167.8

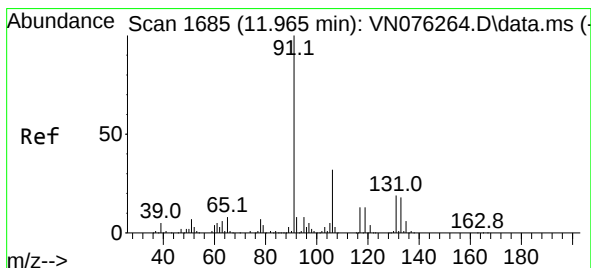
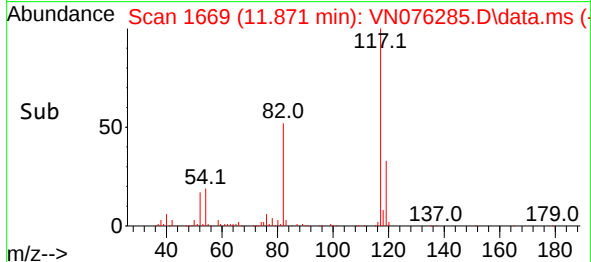
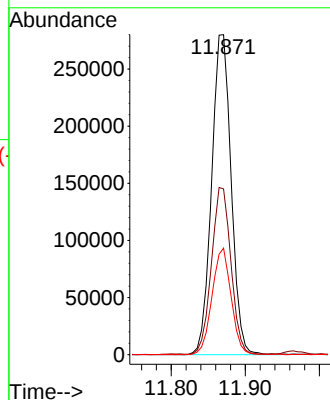
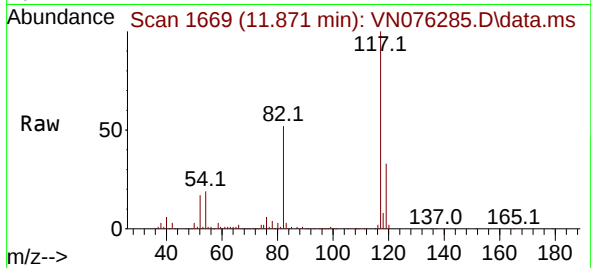




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1171  
Delta R.T. 0.006 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

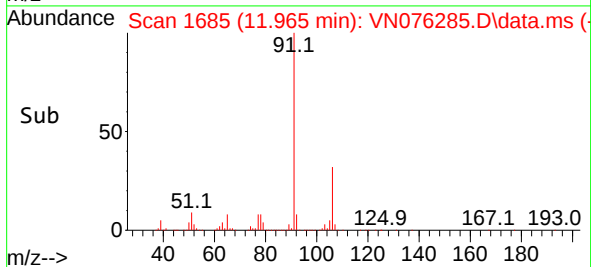
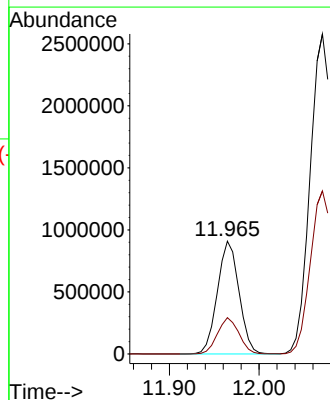
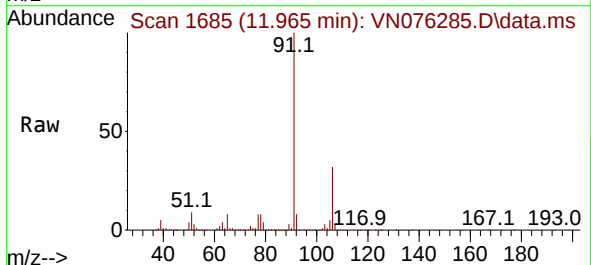
Instrument :  
MSVOA\_N  
ClientSampleId :  
WS-2

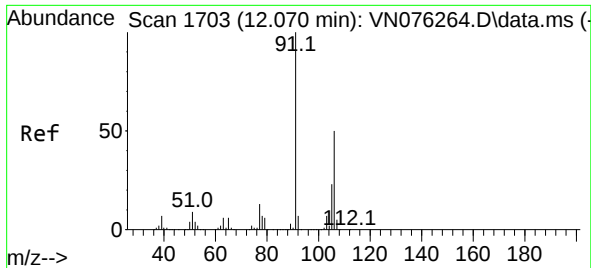
Tgt Ion:117 Resp: 512941  
Ion Ratio Lower Upper  
117 100  
82 51.6 42.2 63.2  
119 33.3 26.9 40.3



#67  
Ethyl Benzene  
Concen: 81.940 ug/l  
RT: 11.965 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

Tgt Ion: 91 Resp: 1520597  
Ion Ratio Lower Upper  
91 100  
106 32.2 25.5 38.3

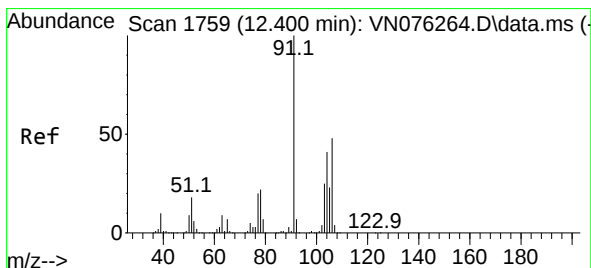
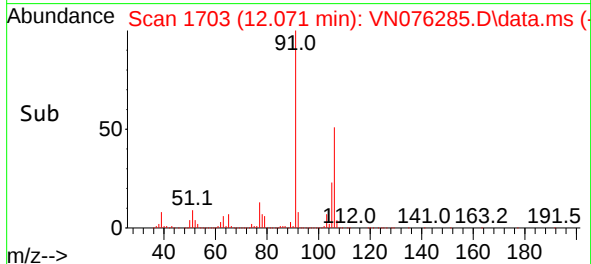
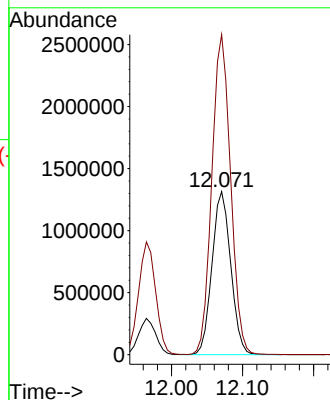
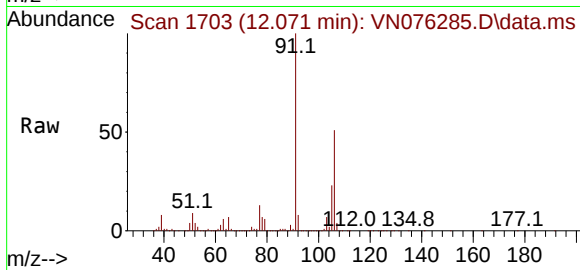




#68  
m/p-Xylenes  
Concen: 323.135 ug/l  
RT: 12.071 min Scan# 1703  
Delta R.T. 0.001 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

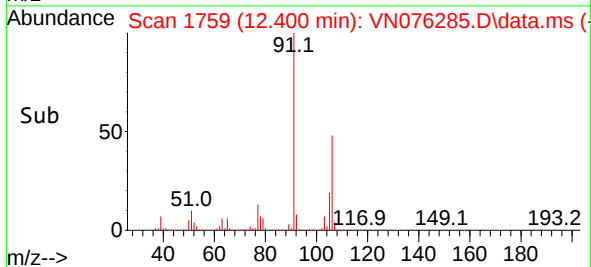
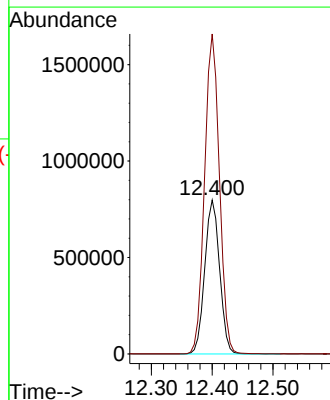
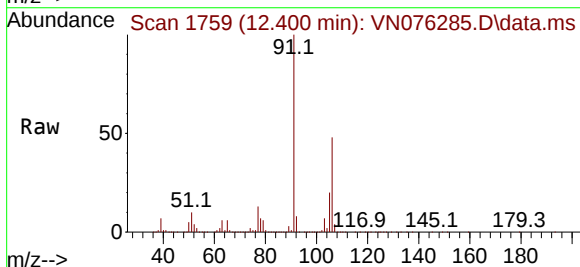
Instrument :  
MSVOA\_N  
ClientSampleId :  
WS-2

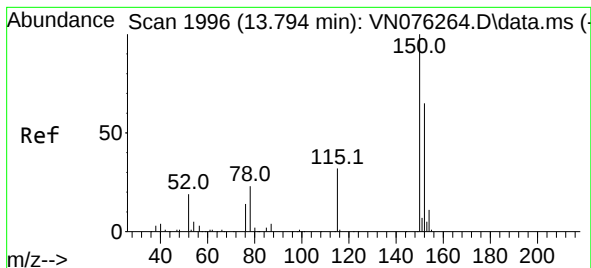
Tgt Ion:106 Resp: 2404533  
Ion Ratio Lower Upper  
106 100  
91 196.7 157.5 236.3



#69  
o-Xylene  
Concen: 185.227 ug/l  
RT: 12.400 min Scan# 1759  
Delta R.T. -0.000 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

Tgt Ion:106 Resp: 1353568  
Ion Ratio Lower Upper  
106 100  
91 206.9 103.2 309.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. -0.000 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

Instrument :

MSVOA\_N

ClientSampleId :

WS-2

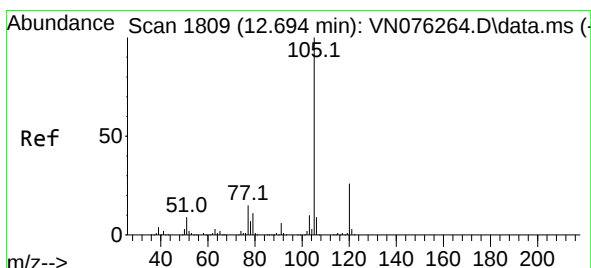
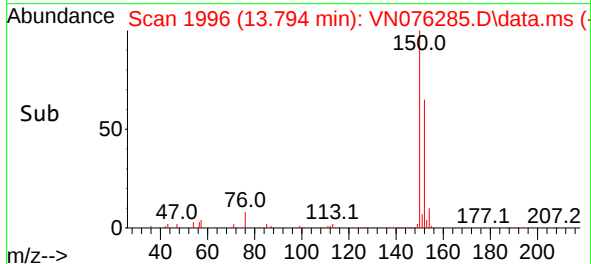
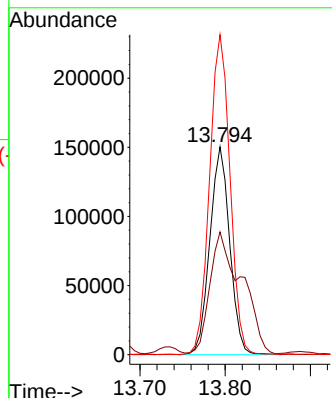
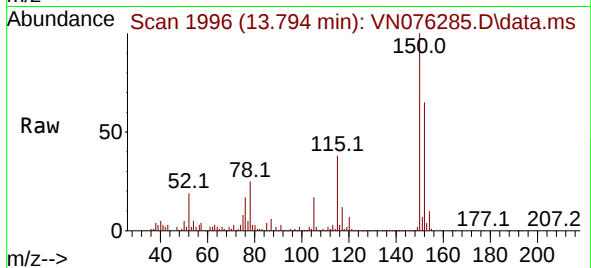
Tgt Ion:152 Resp: 243978

Ion Ratio Lower Upper

152 100

115 92.7 29.6 88.9#

150 158.2 0.0 351.4



#73

Isopropylbenzene

Concen: 13.614 ug/l

RT: 12.700 min Scan# 1810

Delta R.T. 0.006 min

Lab File: VN076285.D

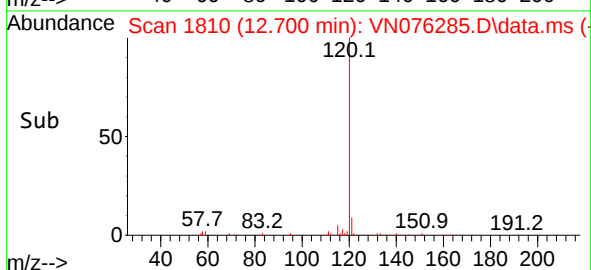
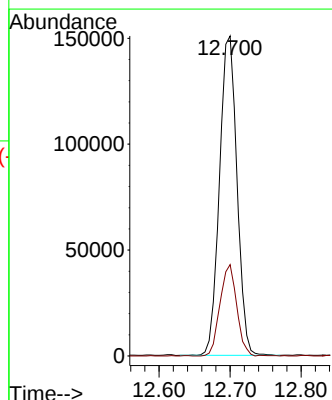
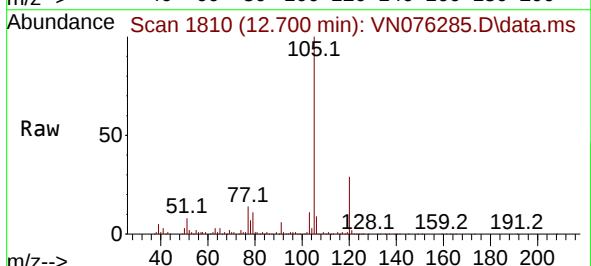
Acq: 17 Jan 2023 19:07

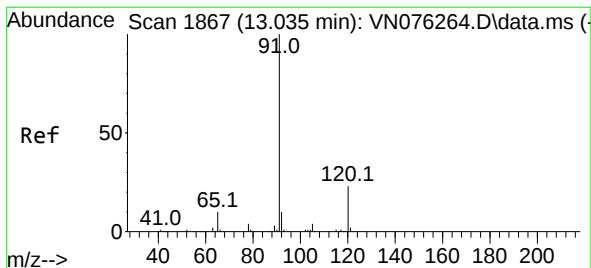
Tgt Ion:105 Resp: 256955

Ion Ratio Lower Upper

105 100

120 27.4 13.4 40.1





#78

n-propylbenzene

Concen: 35.657 ug/l

RT: 13.035 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

Instrument :

MSVOA\_N

ClientSampleId :

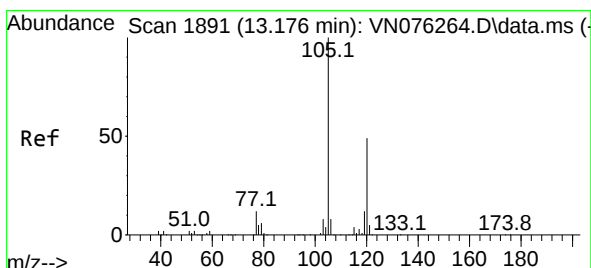
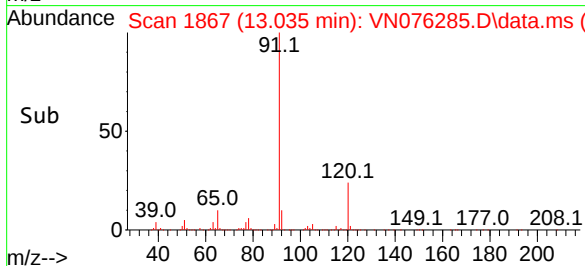
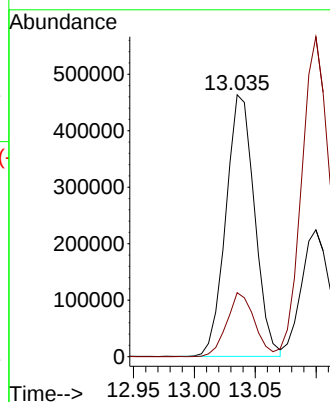
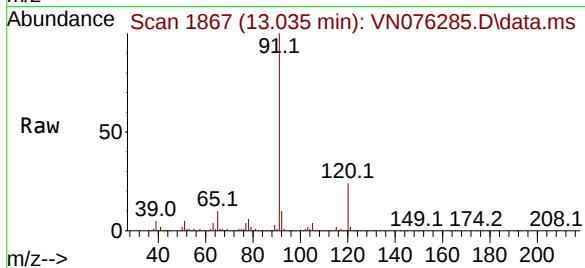
WS-2

Tgt Ion: 91 Resp: 759373

Ion Ratio Lower Upper

91 100

120 23.6 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 71.366 ug/l

RT: 13.176 min Scan# 1891

Delta R.T. 0.000 min

Lab File: VN076285.D

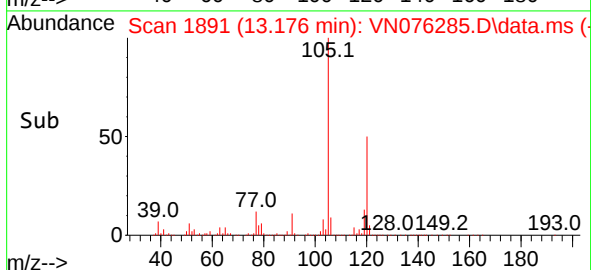
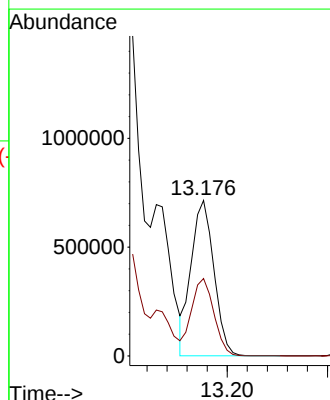
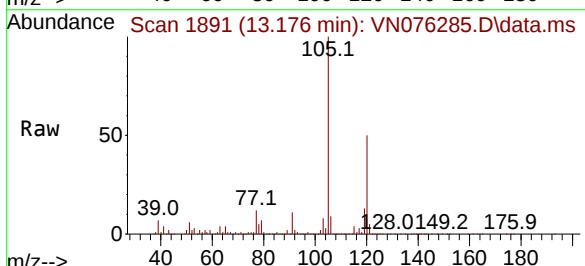
Acq: 17 Jan 2023 19:07

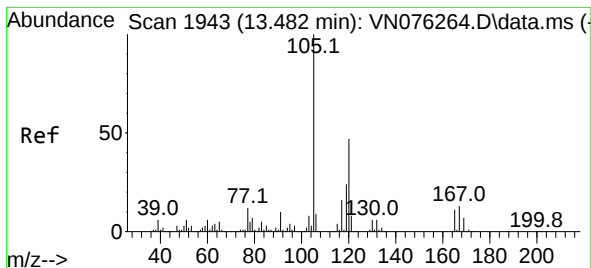
Tgt Ion:105 Resp: 1128440

Ion Ratio Lower Upper

105 100

120 49.2 25.0 75.0





#84

1,2,4-Trimethylbenzene

Concen: 331.320 ug/l

RT: 13.488 min Scan# 1943

Delta R.T. 0.006 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

Instrument :

MSVOA\_N

ClientSampleId :

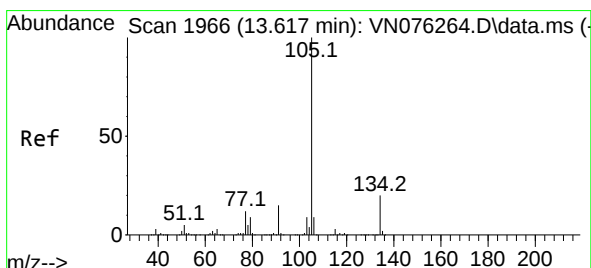
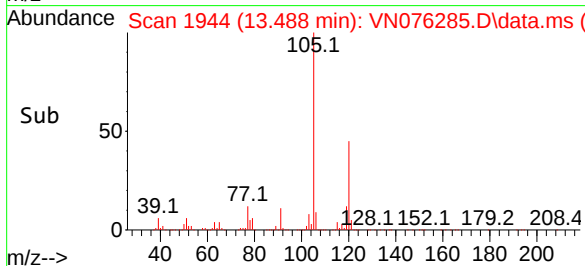
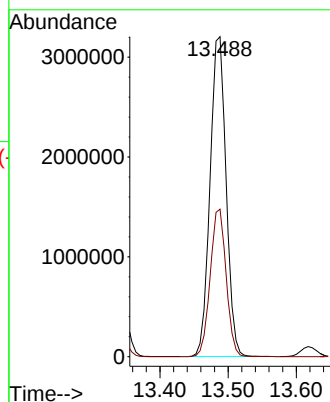
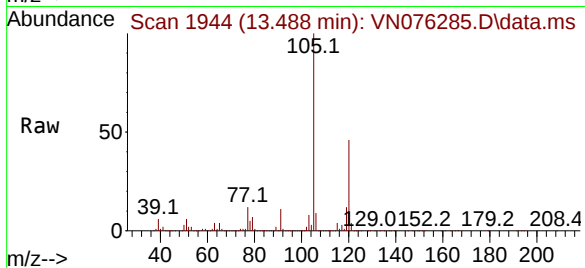
WS-2

Tgt Ion:105 Resp: 5253152

Ion Ratio Lower Upper

105 100

120 45.8 22.9 68.5



#85

sec-Butylbenzene

Concen: 8.253 ug/l

RT: 13.617 min Scan# 1966

Delta R.T. 0.000 min

Lab File: VN076285.D

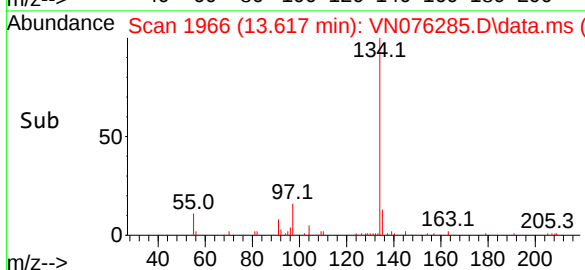
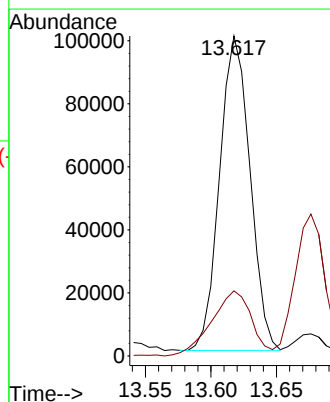
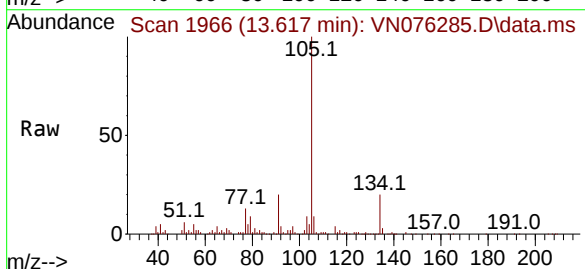
Acq: 17 Jan 2023 19:07

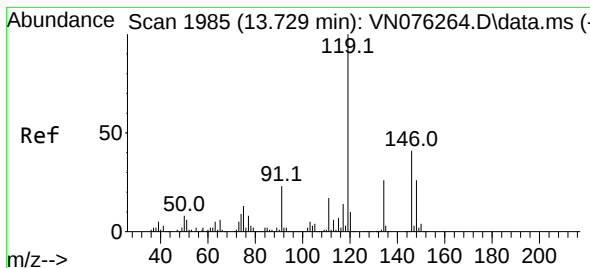
Tgt Ion:105 Resp: 161048

Ion Ratio Lower Upper

105 100

134 27.2 10.3 30.8





#86

p-Isopropyltoluene

Concen: 7.113 ug/l

RT: 13.729 min Scan# 1985

Delta R.T. 0.000 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

Instrument :

MSVOA\_N

ClientSampleId :

WS-2

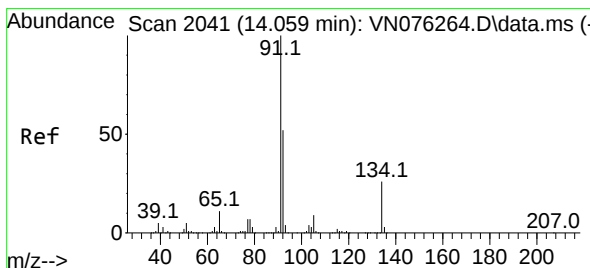
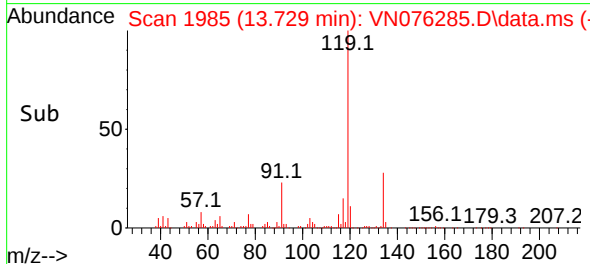
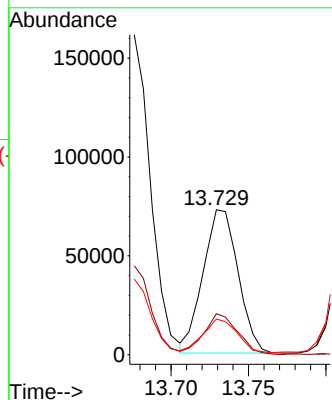
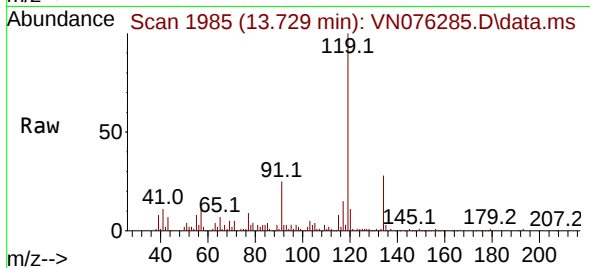
Tgt Ion:119 Resp: 114133

Ion Ratio Lower Upper

119 100

134 27.7 13.2 39.6

91 22.8 11.8 35.3



#89

n-Butylbenzene

Concen: 12.669 ug/l

RT: 14.059 min Scan# 2041

Delta R.T. -0.000 min

Lab File: VN076285.D

Acq: 17 Jan 2023 19:07

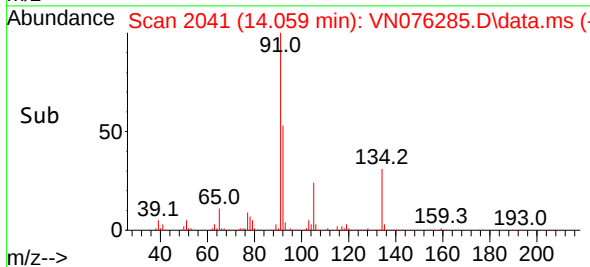
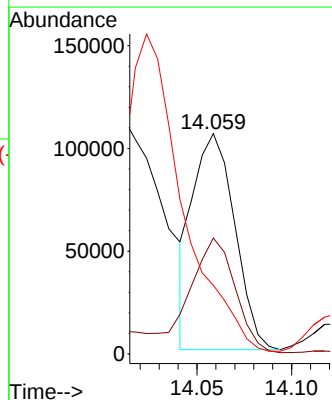
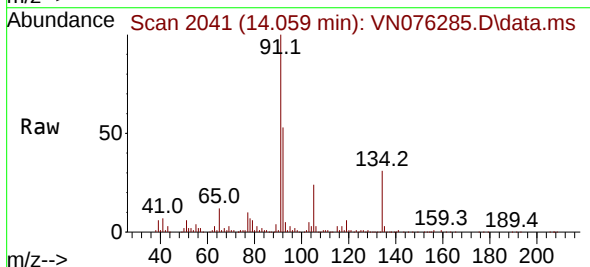
Tgt Ion: 91 Resp: 161383

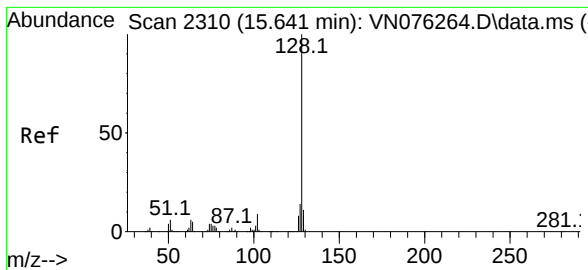
Ion Ratio Lower Upper

91 100

92 59.4 26.3 78.9

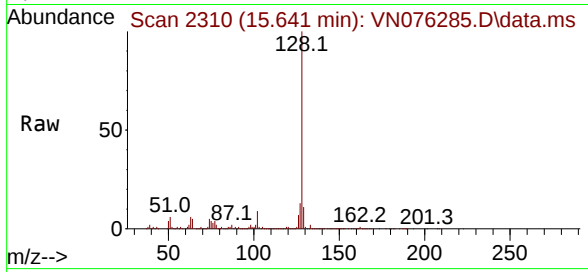
134 0.0 13.2 39.5#





#95  
Naphthalene  
Concen: 80.770 ug/l  
RT: 15.641 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN076285.D  
Acq: 17 Jan 2023 19:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Tgt Ion:128 Resp: 1038781

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.1  | 10.3  | 15.5  |
| 129 | 11.1  | 8.6   | 13.0  |

