

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072122\  
 Data File : VN073568.D  
 Acq On : 21 Jul 2022 20:27  
 Operator : JC\MD  
 Sample : N3806-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FRAC-TANK-N48964

Quant Time: Jul 22 08:02:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 29 01:54:03 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.022  | 168  | 249659   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.904  | 114  | 406012   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.686 | 117  | 370776   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.616 | 152  | 178390   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.369  | 65    | 155270   | 43.081   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 86.160% |
| 35) Dibromofluoromethane    | 7.951  | 113   | 132343   | 48.993   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 97.980% |
| 50) Toluene-d8              | 10.381 | 98    | 441709   | 46.040   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 92.080% |
| 62) 4-Bromofluorobenzene    | 12.669 | 95    | 178361   | 48.377   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 96.760% |

|                               |        |     |        |        |        |     |
|-------------------------------|--------|-----|--------|--------|--------|-----|
| Target Compounds              |        |     |        | Qvalue |        |     |
| 6) Chloroethane               | 2.963  | 64  | 538    | 0.304  | ug/l # | 42  |
| 11) Tert butyl alcohol        | 5.310  | 59  | 440    | 0.504  | ug/l # | 72  |
| 13) Acrolein                  | 3.987  | 56  | 1611   | 2.919  | ug/l   | 95  |
| 16) Acetone                   | 4.234  | 43  | 34248  | 16.929 | ug/l   | 100 |
| 23) Vinyl Acetate             | 6.504  | 43  | 3371   | 0.326  | ug/l # | 68  |
| 25) 2-Butanone                | 7.269  | 43  | 24571  | 7.629  | ug/l # | 83  |
| 27) cis-1,2-Dichloroethene    | 7.263  | 96  | 1380   | 0.371  | ug/l # | 1   |
| 31) Cyclohexane               | 8.022  | 56  | 6499   | 1.101  | ug/l # | 1   |
| 36) 1,1-Dichloropropene       | 8.016  | 75  | 20363  | 4.899  | ug/l # | 47  |
| 37) Ethyl Acetate             | 7.269  | 43  | 24571  | 3.912  | ug/l # | 67  |
| 38) Carbon Tetrachloride      | 8.016  | 117 | 26488  | 6.162  | ug/l # | 16  |
| 41) Methacrylonitrile         | 7.581  | 41  | 1307   | 0.429  | ug/l # | 25  |
| 48) Methyl methacrylate       | 9.475  | 41  | 942    | 0.225  | ug/l # | 34  |
| 51) 4-Methyl-2-Pentanone      | 10.275 | 43  | 14035  | 2.452  | ug/l   | 88  |
| 52) Toluene                   | 10.439 | 92  | 20558  | 2.593  | ug/l   | 98  |
| 59) 2-Hexanone                | 11.028 | 43  | 2605   | 0.597  | ug/l # | 59  |
| 60) Dibromochloromethane      | 10.916 | 129 | 971    | 0.312  | ug/l # | 11  |
| 64) Tetrachloroethene         | 10.922 | 164 | 1533   | 0.506  | ug/l # | 42  |
| 67) Ethyl Benzene             | 11.786 | 91  | 22430  | 1.473  | ug/l   | 96  |
| 68) m/p-Xylenes               | 11.886 | 106 | 32947  | 5.734  | ug/l   | 98  |
| 69) o-Xylene                  | 12.222 | 106 | 21561  | 3.676  | ug/l   | 97  |
| 70) Styrene                   | 12.233 | 104 | 27020  | 2.984  | ug/l   | 98  |
| 73) Isopropylbenzene          | 12.522 | 105 | 5607   | 0.364  | ug/l   | 90  |
| 74) N-amyl acetate            | 12.292 | 43  | 3630   | 0.471  | ug/l # | 47  |
| 76) 1,2,3-Trichloropropane    | 12.674 | 75  | 94527  | 20.265 | ug/l # | 1   |
| 78) n-propylbenzene           | 12.863 | 91  | 18059  | 1.055  | ug/l   | 94  |
| 79) 2-Chlorotoluene           | 12.927 | 91  | 9360   | 0.864  | ug/l # | 40  |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105 | 39819  | 3.171  | ug/l   | 97  |
| 81) trans-1,4-Dichloro-2-b... | 12.674 | 75  | 94527  | 55.576 | ug/l # | 10  |
| 82) 4-Chlorotoluene           | 13.004 | 91  | 4321   | 0.412  | ug/l # | 40  |
| 83) tert-Butylbenzene         | 13.304 | 119 | 21361  | 1.898  | ug/l # | 66  |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105 | 178272 | 14.221 | ug/l   | 97  |
| 85) sec-Butylbenzene          | 13.445 | 105 | 7978   | 0.528  | ug/l   | 98  |
| 86) p-Isopropyltoluene        | 13.551 | 119 | 5432   | 0.445  | ug/l   | 96  |
| 89) n-Butylbenzene            | 13.880 | 91  | 8629   | 0.848  | ug/l # | 71  |
| 90) Hexachloroethane          | 14.157 | 117 | 5187   | 2.279  | ug/l # | 9   |

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Sample : N3806-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

Quant Time: Jul 22 08:02:45 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 29 01:54:03 2022  
Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 92) 1,2-Dibromo-3-Chloropr... | 14.516 | 75   | 788      | 0.634  | ug/l  | # 1      |
| 95) Naphthalene               | 15.433 | 128  | 212178   | 15.433 | ug/l  | 98       |

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

**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
FRAC-TANK-N48964

Abundance

TIC: VN073568.D\data.ms

Time-->

Chloroethane, T

Acrolein, T

Acetone, T

Tert butyl alcohol, T

Vinyl Acetate, T

1,2-Dichloroethane, T

Methacrylonitrile, T

Dibromofluoromethane, S

1,2-Dichloroethane-d4, S

1,4-Difluorobenzene, I

Methyl methacrylate, T

4-Methyl-2-Pentanone, T

Toluene, C

Diethylbenzene, T

2-Hexanone, I

Ethyl Benzene, C

m,p-Xylenes, T

N-amyl acetate, T

Styrene, T

Isopropylbenzene, T

n-Propylbenzene, T

4-Chlorobenzene, T

sec-Butylbenzene, T

Isopropylbenzene, T

n-Butylbenzene, T

Hexachloroethane, T

1,2-Dibromo-3-Chloropropane, T

Naphthalene, T

4-Bromobenzonitrile, T

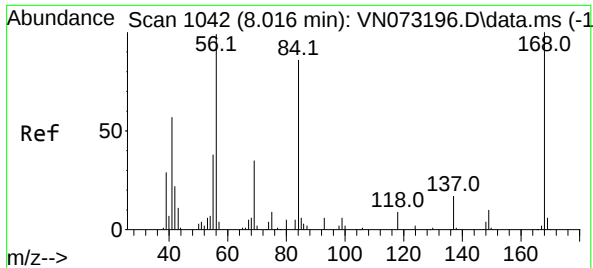
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tert-Butylbenzene, T

1,4-Dichlorobenzene-d4, I

Toluene-d8, S

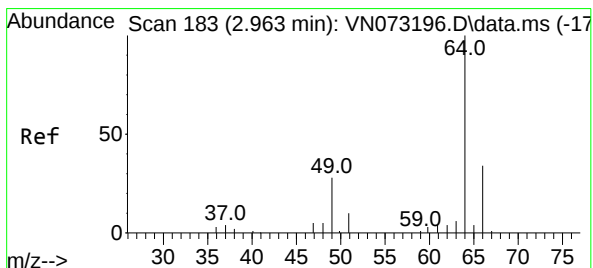
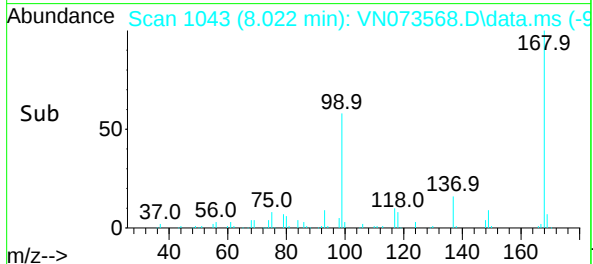
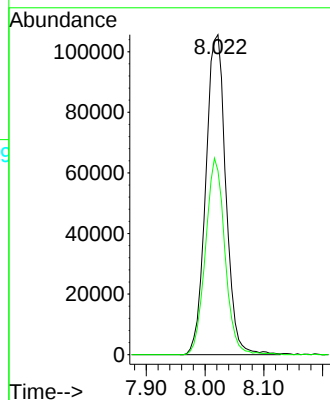
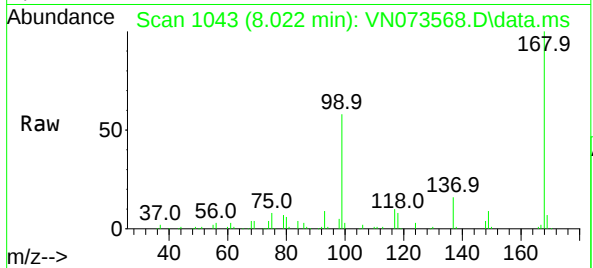
Chlorobenzene-d5, I



#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

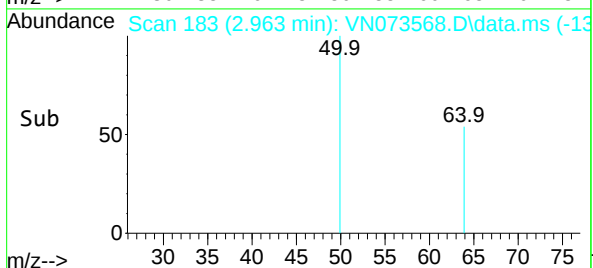
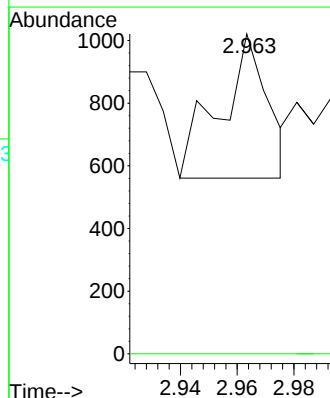
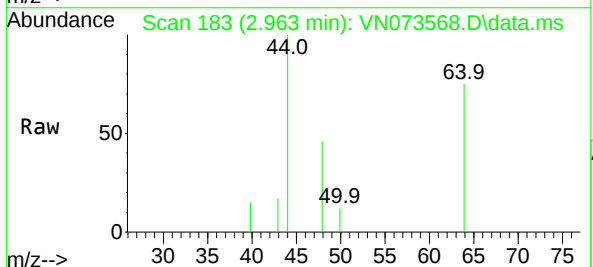
Instrument :  
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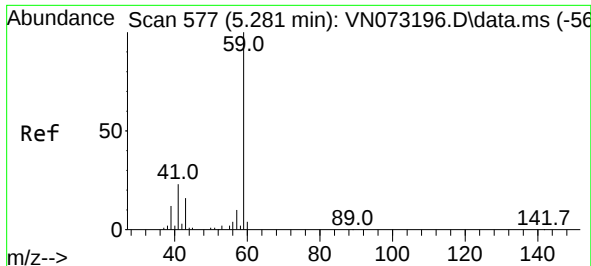
Tgt Ion:168 Resp: 249659  
Ion Ratio Lower Upper  
168 100  
99 57.5 42.3 63.5



#6  
Chloroethane  
Concen: 0.304 ug/l  
RT: 2.963 min Scan# 183  
Delta R.T. 0.000 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 64 Resp: 538  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#

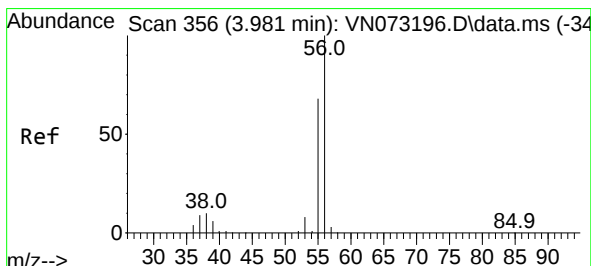
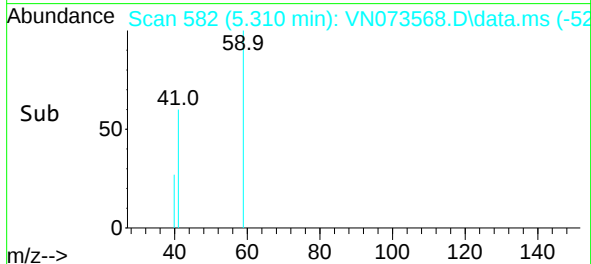
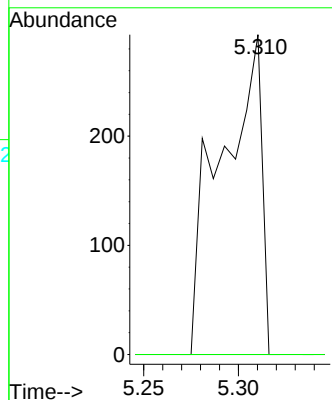
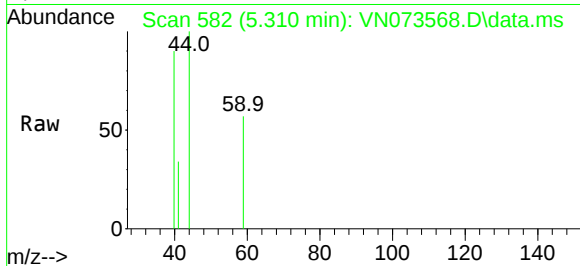




#11  
Tert butyl alcohol  
Concen: 0.504 ug/l  
RT: 5.310 min Scan# 51  
Delta R.T. 0.029 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

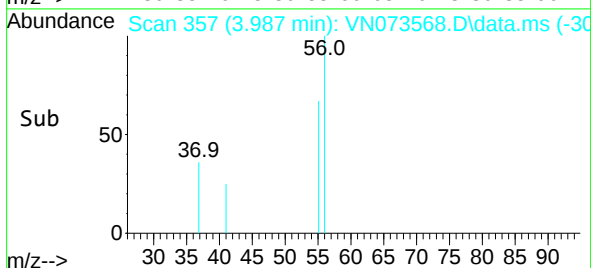
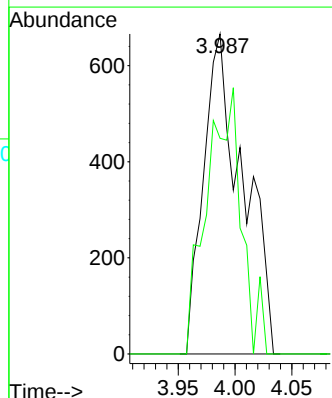
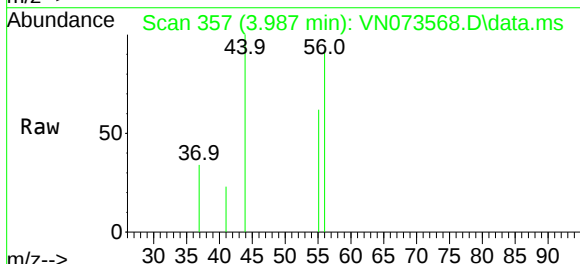
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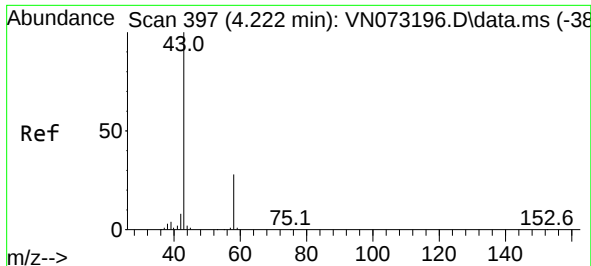
Tgt Ion: 59 Resp: 440  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#13  
Acrolein  
Concen: 2.919 ug/l  
RT: 3.987 min Scan# 357  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 56 Resp: 1611  
Ion Ratio Lower Upper  
56 100  
55 72.8 54.8 82.2

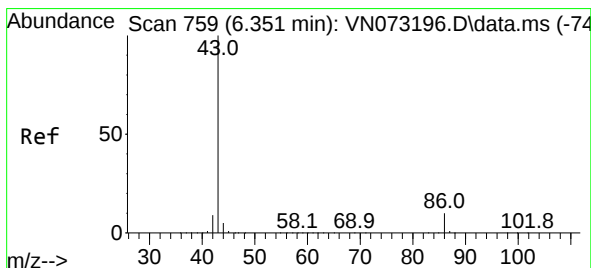
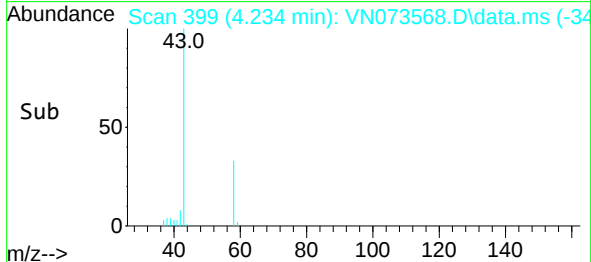
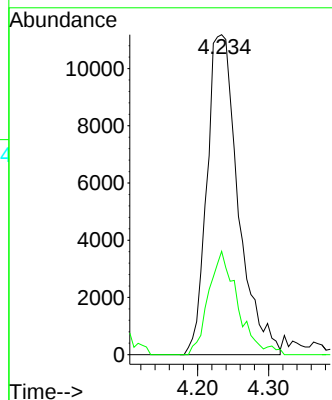
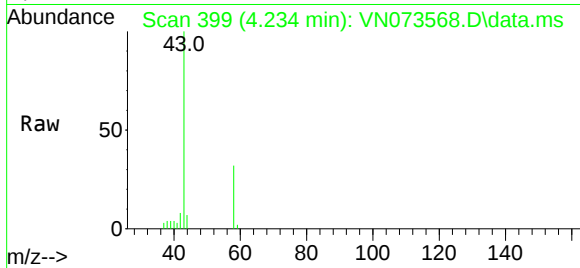




#16  
Acetone  
Concen: 16.929 ug/l  
RT: 4.234 min Scan# 399  
Delta R.T. 0.012 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

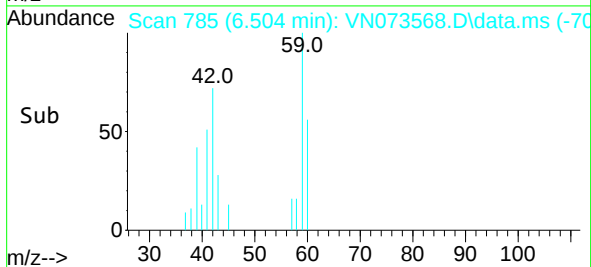
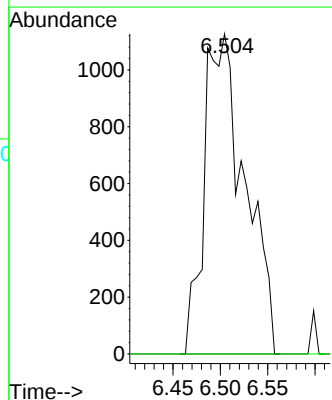
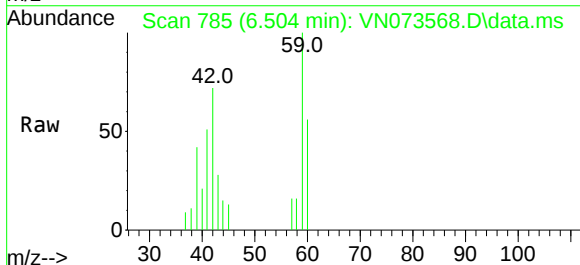
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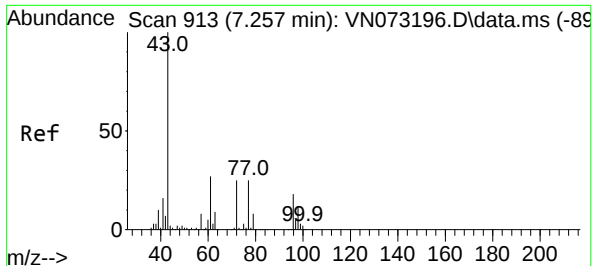
Tgt Ion: 43 Resp: 34248  
Ion Ratio Lower Upper  
43 100  
58 32.3 26.0 39.0



#23  
Vinyl Acetate  
Concen: 0.326 ug/l  
RT: 6.504 min Scan# 785  
Delta R.T. 0.153 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 43 Resp: 3371  
Ion Ratio Lower Upper  
43 100  
86 0.0 10.0 15.0#

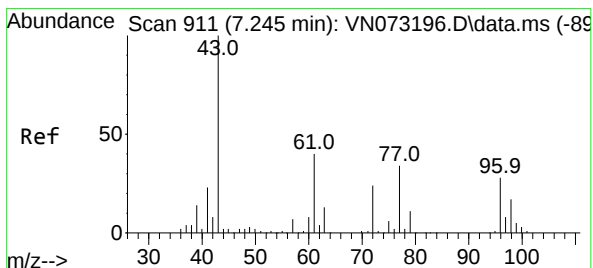
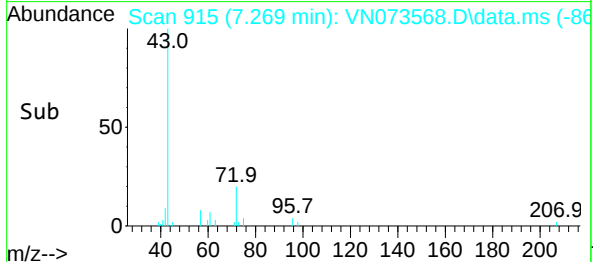
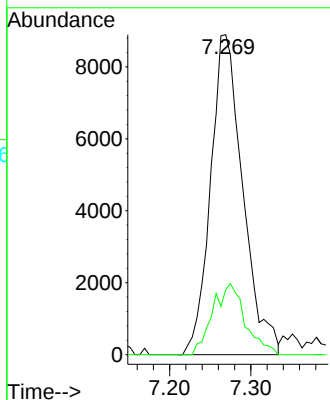
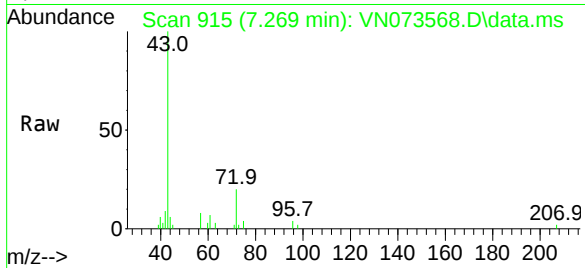




#25  
2-Butanone  
Concen: 7.629 ug/l  
RT: 7.269 min Scan# 913  
Delta R.T. 0.012 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

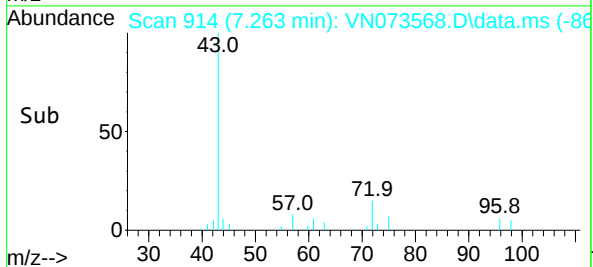
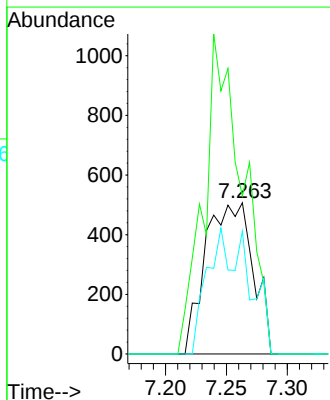
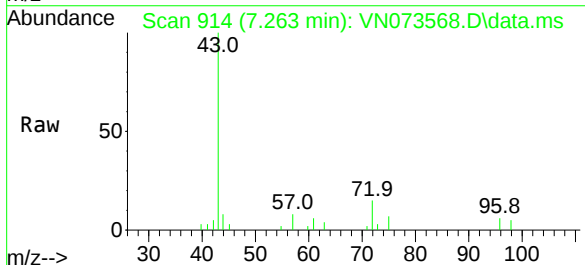
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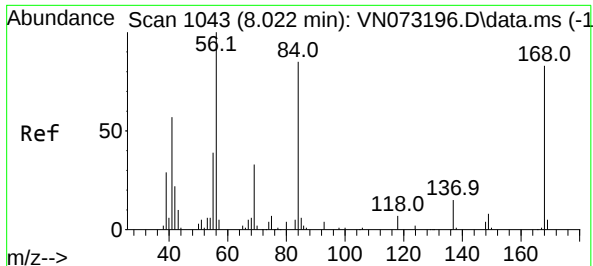
Tgt Ion: 43 Resp: 24571  
Ion Ratio Lower Upper  
43 100  
72 20.3 23.7 35.5#



#27  
cis-1,2-Dichloroethene  
Concen: 0.371 ug/l  
RT: 7.263 min Scan# 914  
Delta R.T. 0.018 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

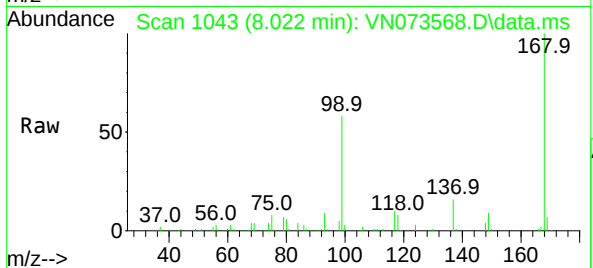
Tgt Ion: 96 Resp: 1380  
Ion Ratio Lower Upper  
96 100  
61 0.0 0.0 280.6  
98 0.0 0.0 128.4



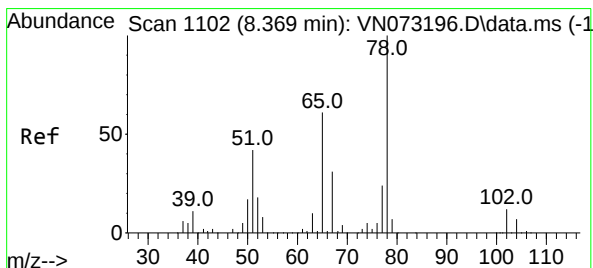
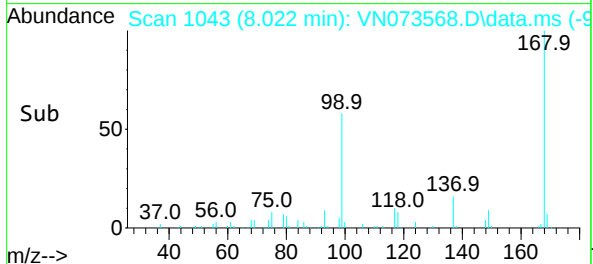
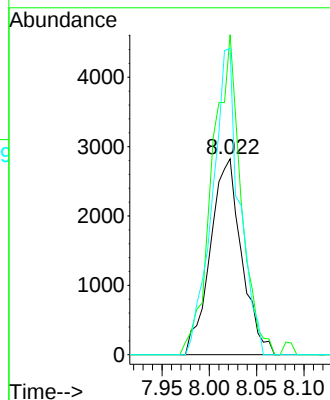


#31  
Cyclohexane  
Concen: 1.101 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. -0.000 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

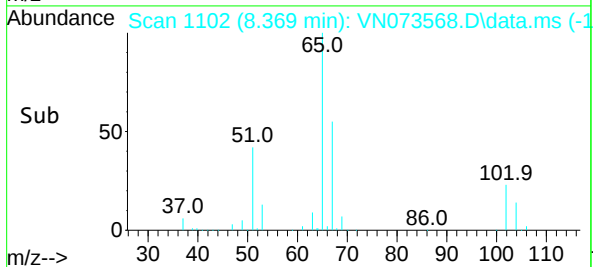
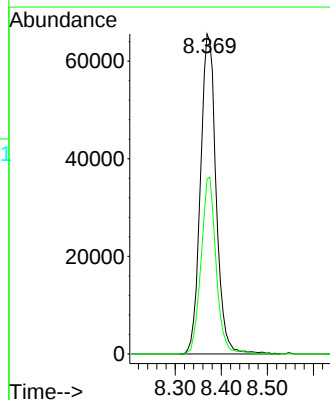
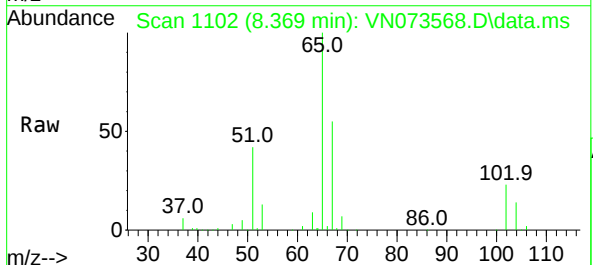


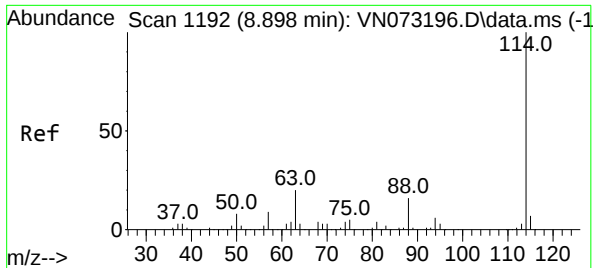
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Ion Ratio Lower Upper  
56 100  
69 163.4 27.8 41.8#  
84 156.4 76.9 115.3#



#33  
1,2-Dichloroethane-d4  
Concen: 43.081 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 65 Resp: 155270  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VN073568.D

Acq: 21 Jul 2022 20:27

Instrument :

MSVOA\_N

ClientSampleId :

FRAC-TANK-N48964

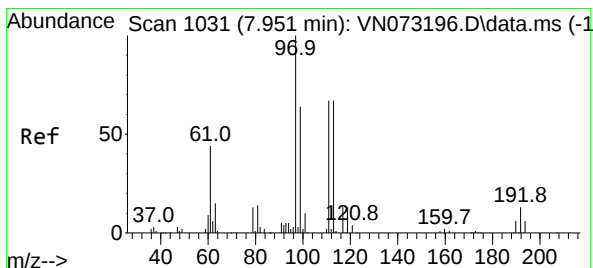
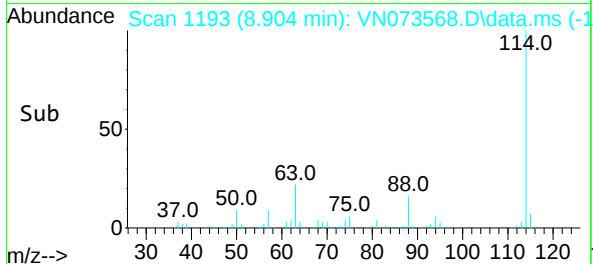
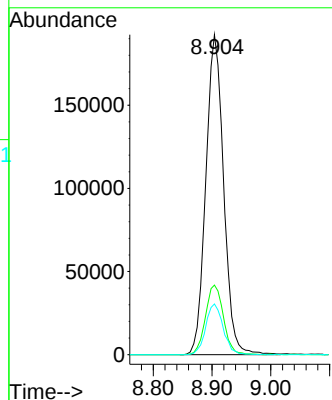
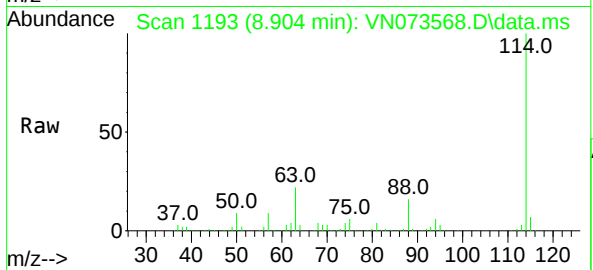
Tgt Ion:114 Resp: 406012

Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.0

88 15.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.993 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073568.D

Acq: 21 Jul 2022 20:27

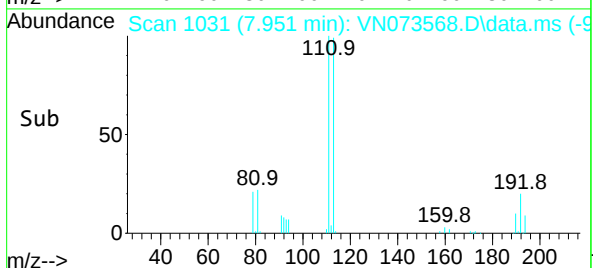
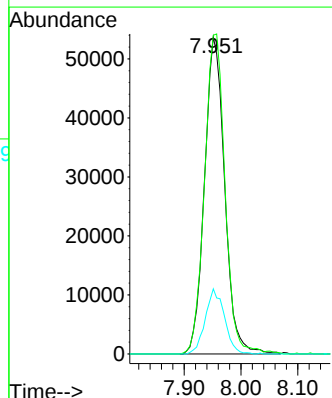
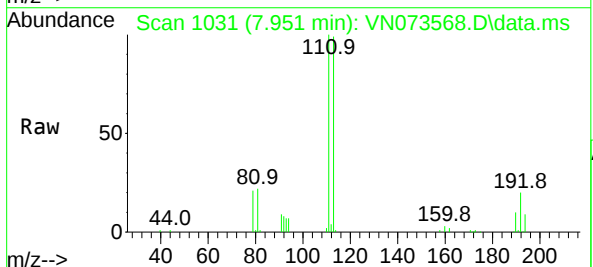
Tgt Ion:113 Resp: 132343

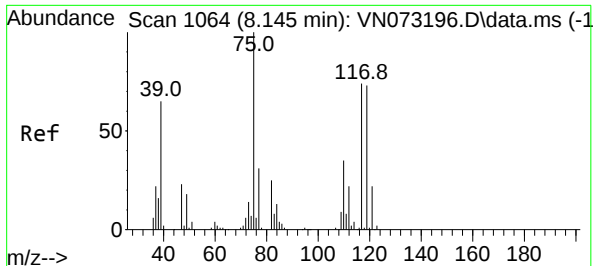
Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

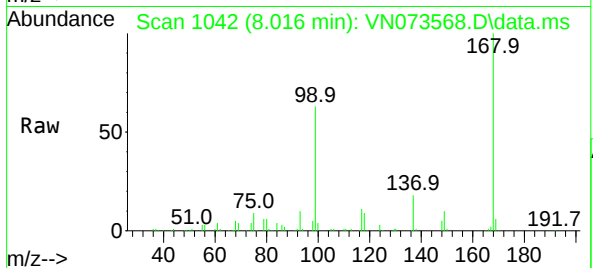
192 19.5 17.0 25.6



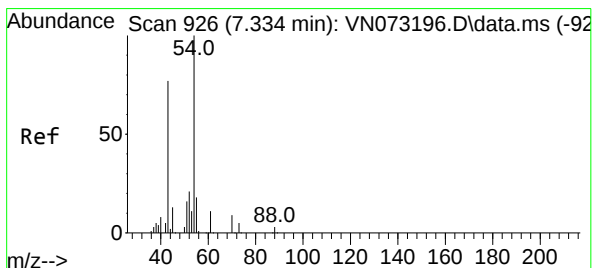
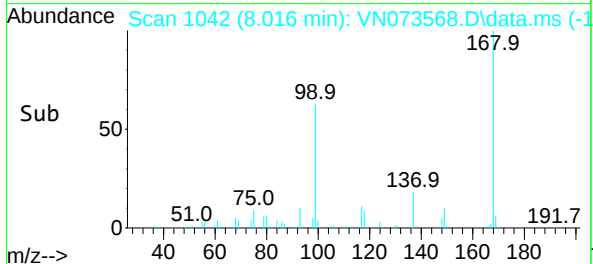
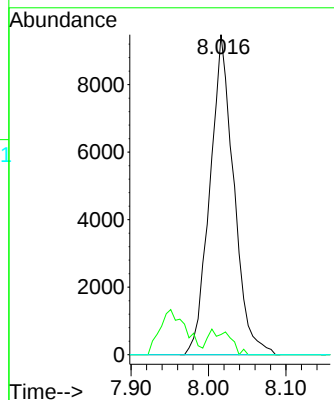


#36  
1,1-Dichloropropene  
Concen: 4.899 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.129 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

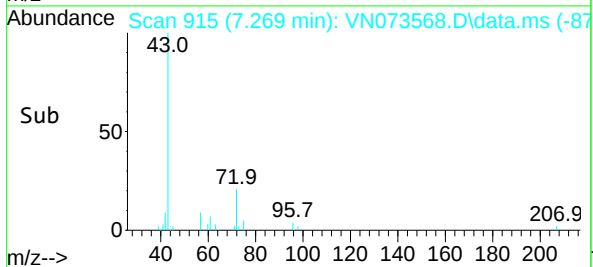
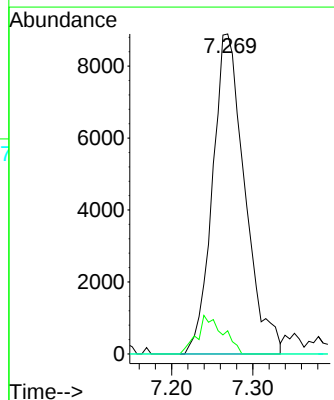
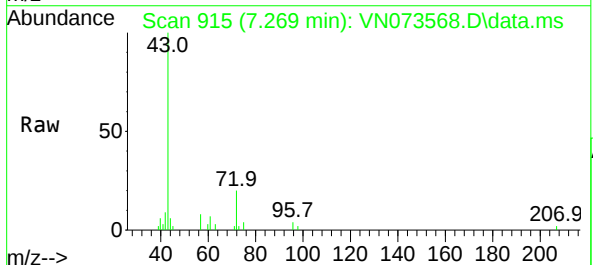


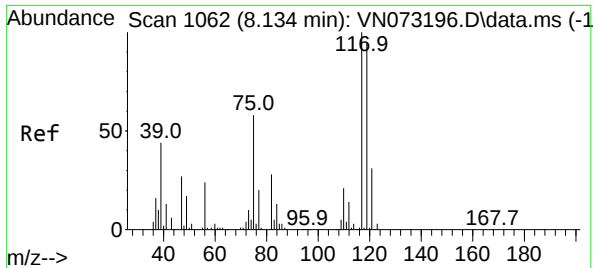
Tgt Ion: 75 Resp: 20363  
Ion Ratio Lower Upper  
75 100  
110 7.1 18.3 54.8#  
77 0.0 25.1 37.7#



#37  
Ethyl Acetate  
Concen: 3.912 ug/l  
RT: 7.269 min Scan# 915  
Delta R.T. -0.065 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 43 Resp: 24571  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.8 17.6#  
70 0.0 9.3 13.9#

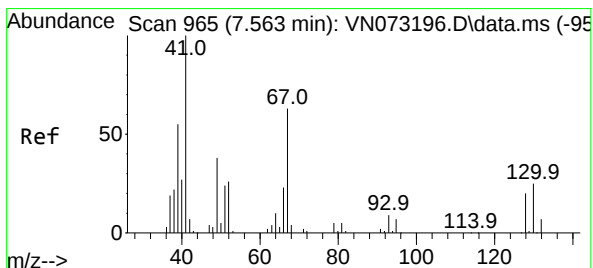
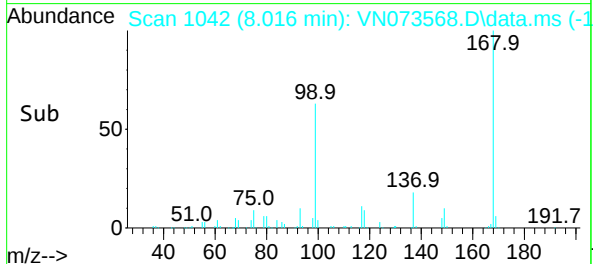
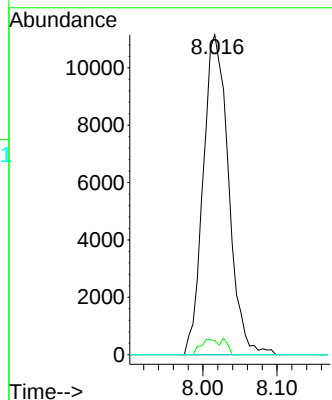
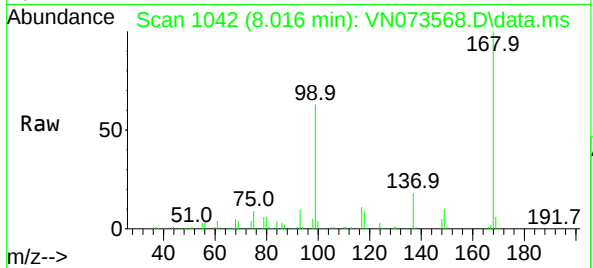




#38  
Carbon Tetrachloride  
Concen: 6.162 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.118 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

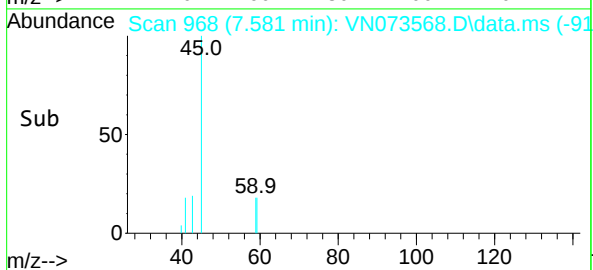
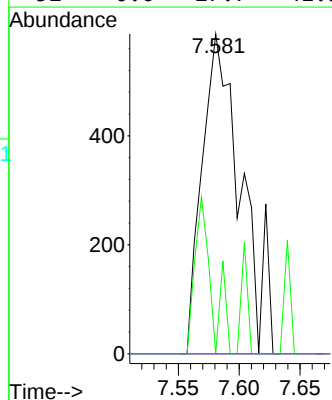
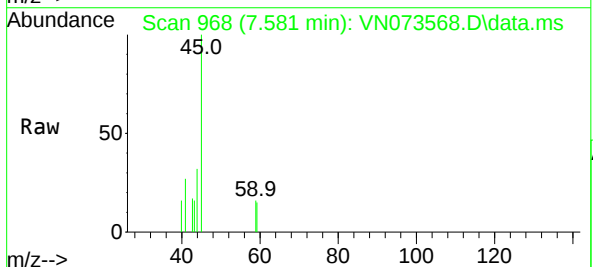
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

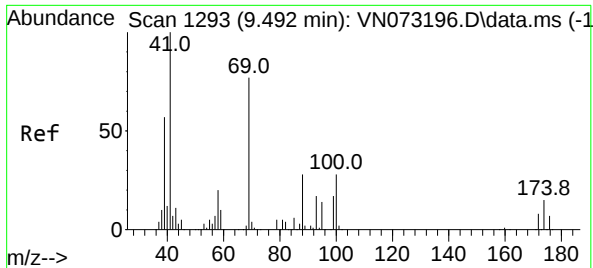
Tgt Ion:117 Resp: 26488  
Ion Ratio Lower Upper  
117 100  
119 4.3 75.8 113.8#  
121 0.0 24.6 37.0#



#41  
Methacrylonitrile  
Concen: 0.429 ug/l  
RT: 7.581 min Scan# 968  
Delta R.T. 0.018 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 41 Resp: 1307  
Ion Ratio Lower Upper  
41 100  
39 21.4 48.6 73.0#  
67 0.0 73.4 110.2#  
52 0.0 27.7 41.5#

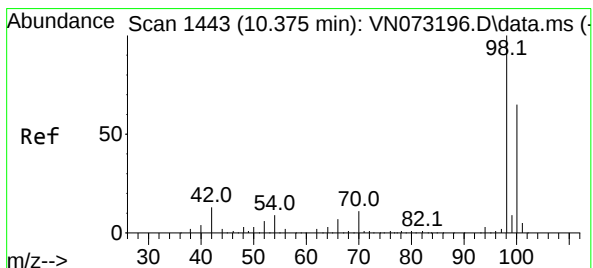
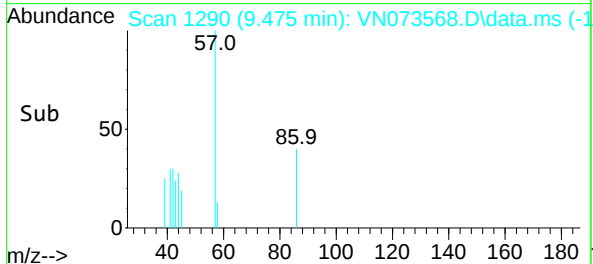
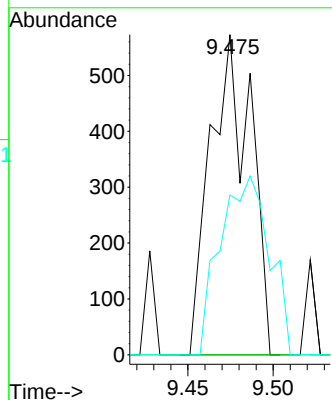
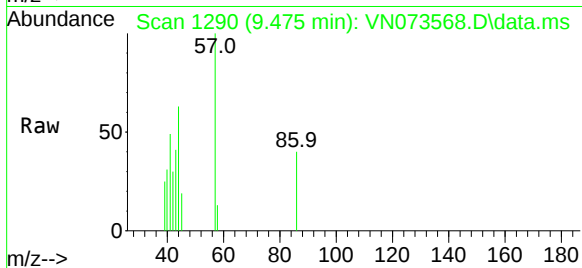




#48  
Methyl methacrylate  
Concen: 0.225 ug/l  
RT: 9.475 min Scan# 1290  
Delta R.T. -0.017 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

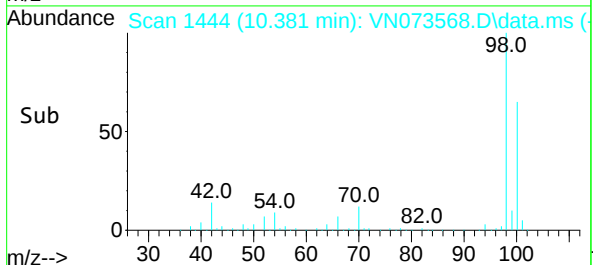
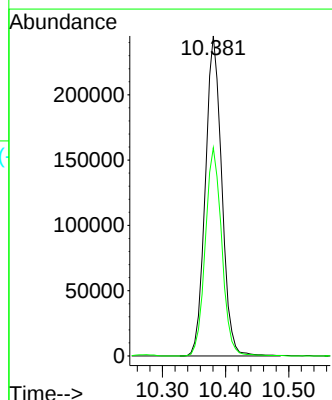
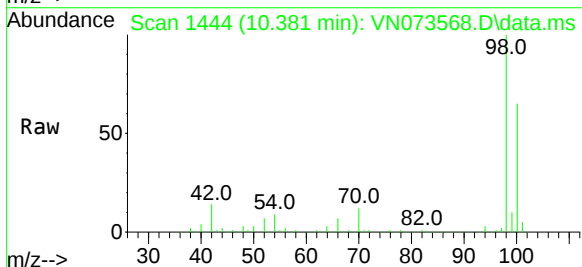
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

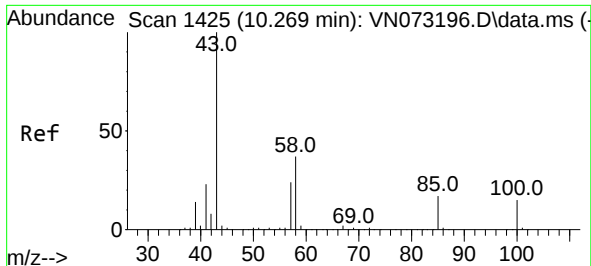
Tgt Ion: 41 Resp: 942  
Ion Ratio Lower Upper  
41 100  
69 0.0 74.7 112.1#  
39 68.5 45.6 68.4#



#50  
Toluene-d8  
Concen: 46.040 ug/l  
RT: 10.381 min Scan# 1444  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 98 Resp: 441709  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 2.452 ug/l

RT: 10.275 min Scan# 1426

Delta R.T. 0.006 min

Lab File: VN073568.D

Acq: 21 Jul 2022 20:27

Instrument :

MSVOA\_N

ClientSampleId :

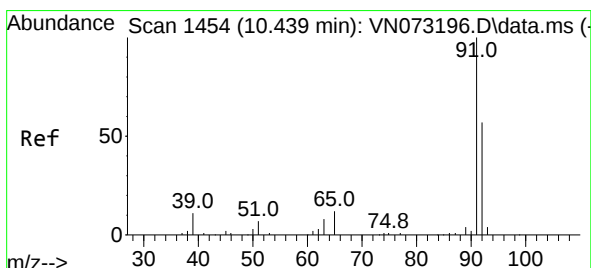
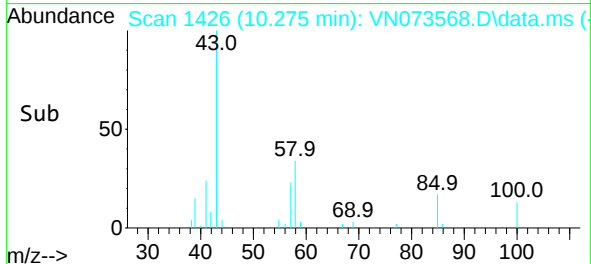
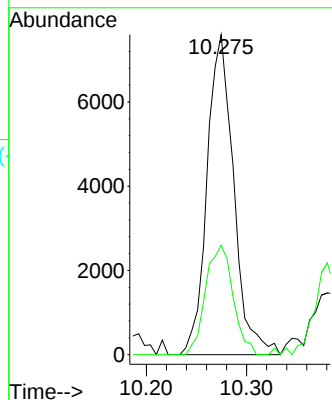
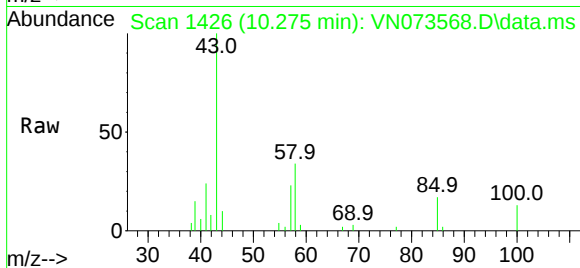
FRAC-TANK-N48964

Tgt Ion: 43 Resp: 14035

Ion Ratio Lower Upper

43 100

58 35.2 34.1 51.1



#52

Toluene

Concen: 2.593 ug/l

RT: 10.439 min Scan# 1454

Delta R.T. 0.000 min

Lab File: VN073568.D

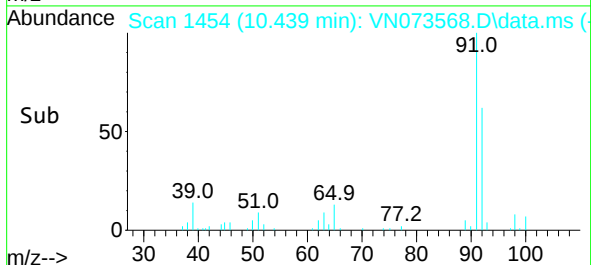
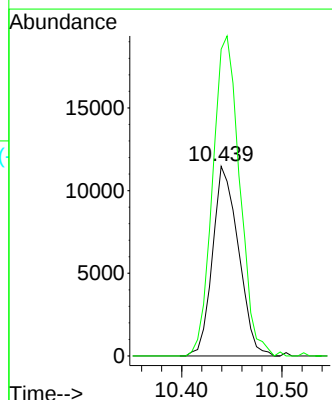
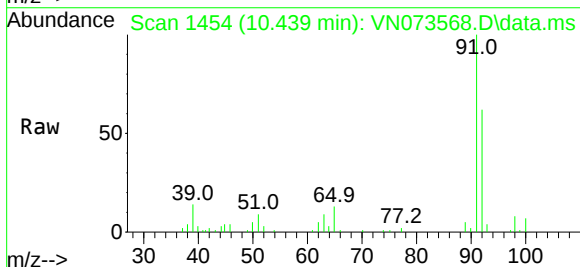
Acq: 21 Jul 2022 20:27

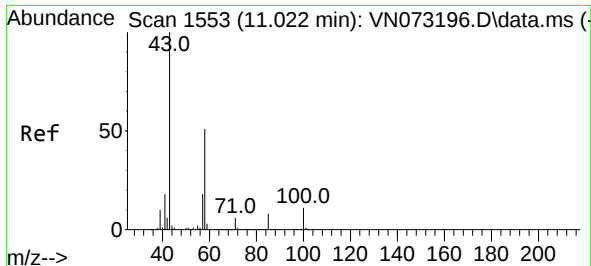
Tgt Ion: 92 Resp: 20558

Ion Ratio Lower Upper

92 100

91 176.5 138.6 207.8

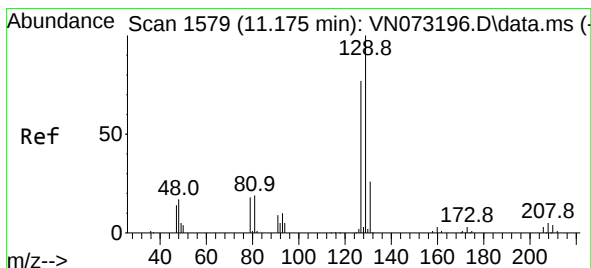
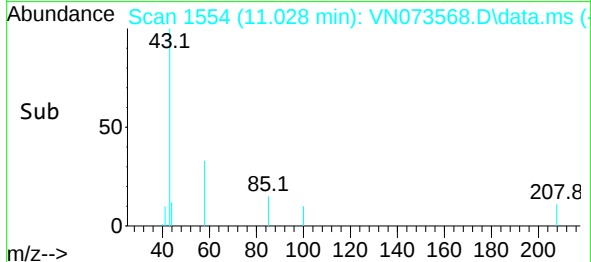
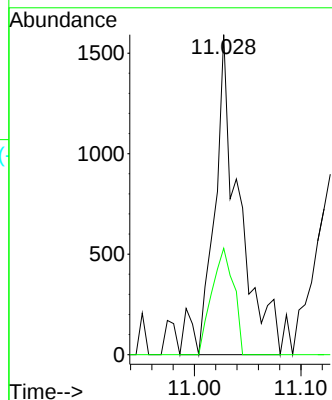
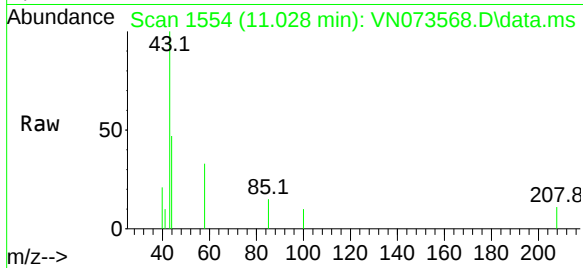




#59  
2-Hexanone  
Concen: 0.597 ug/l  
RT: 11.028 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

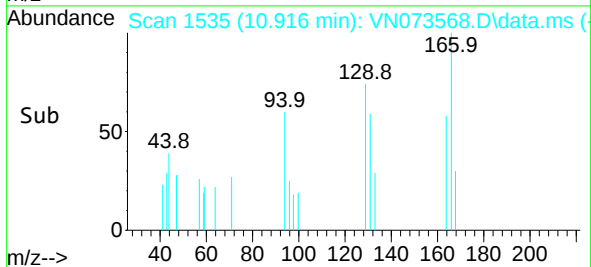
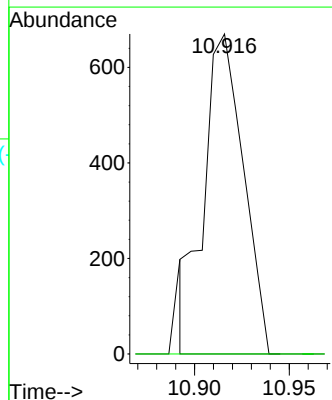
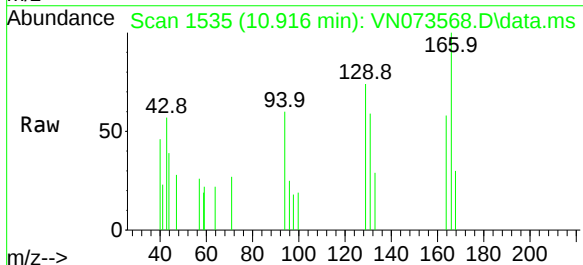
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

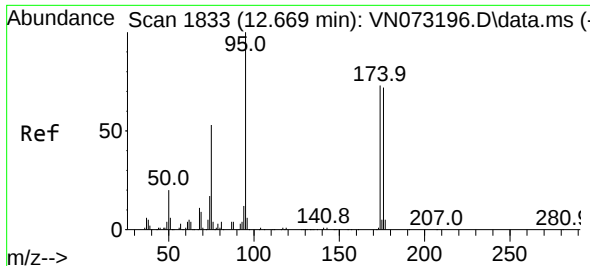
Tgt Ion: 43 Resp: 2605  
Ion Ratio Lower Upper  
43 100  
58 28.9 29.7 89.1#



#60  
Dibromochloromethane  
Concen: 0.312 ug/l  
RT: 10.916 min Scan# 1535  
Delta R.T. -0.259 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 129 Resp: 971  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#

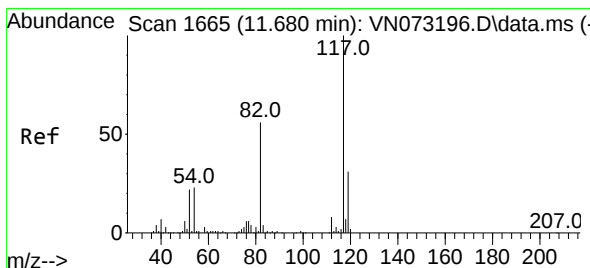
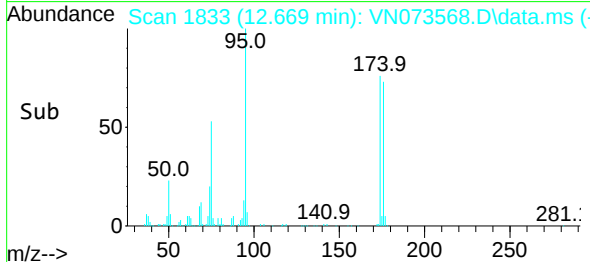
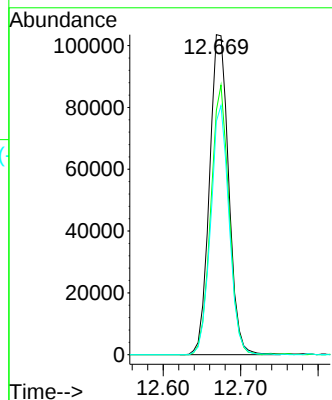
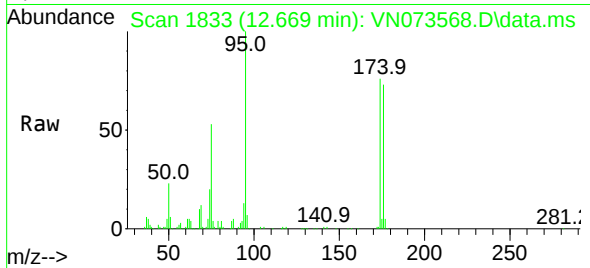




#62  
4-Bromofluorobenzene  
Concen: 48.377 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. -0.000 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

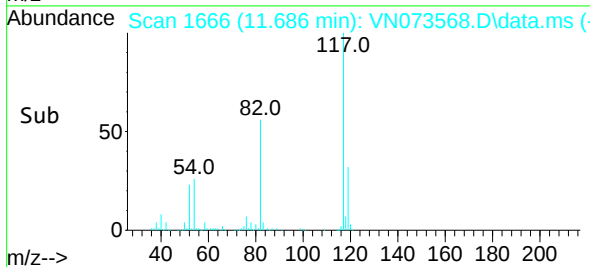
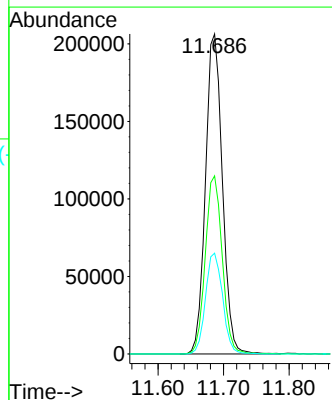
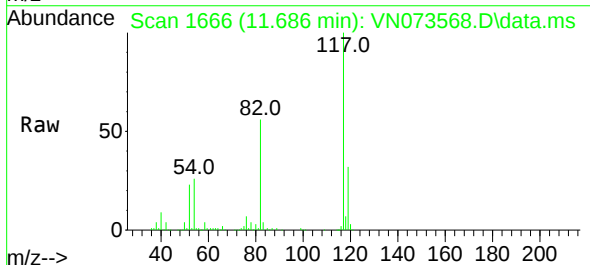
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

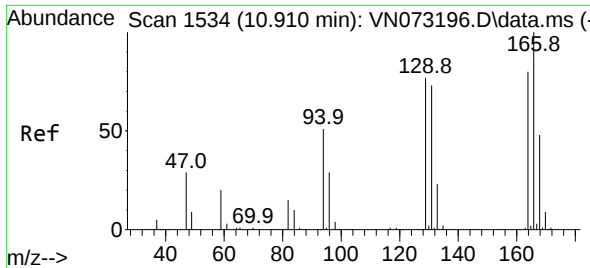
Tgt Ion: 95 Resp: 178361  
Ion Ratio Lower Upper  
95 100  
174 79.4 0.0 167.6  
176 74.3 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 117 Resp: 370776  
Ion Ratio Lower Upper  
117 100  
82 55.6 44.2 66.2  
119 31.5 25.4 38.0

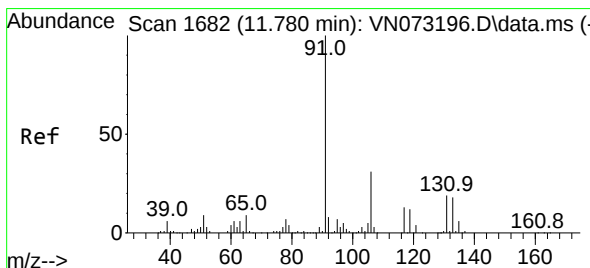
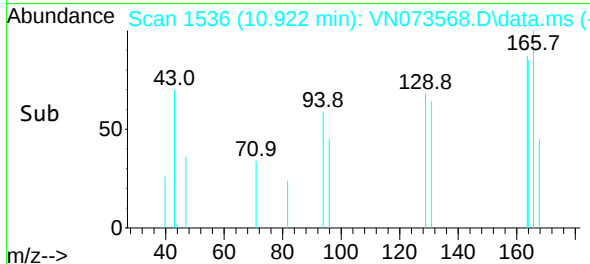
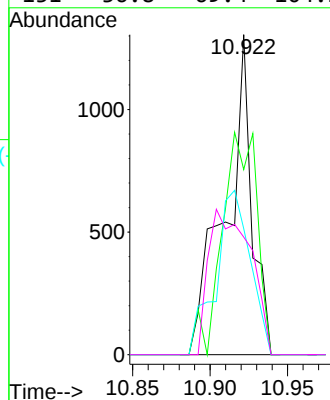
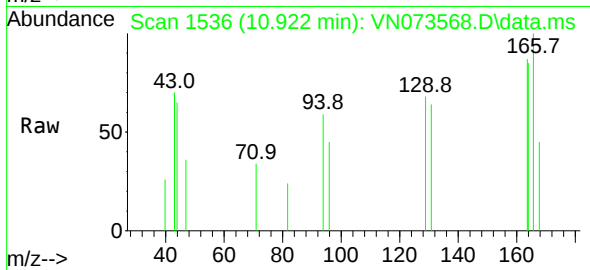




#64  
Tetrachloroethene  
Concen: 0.506 ug/l  
RT: 10.922 min Scan# 1533  
Delta R.T. 0.012 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

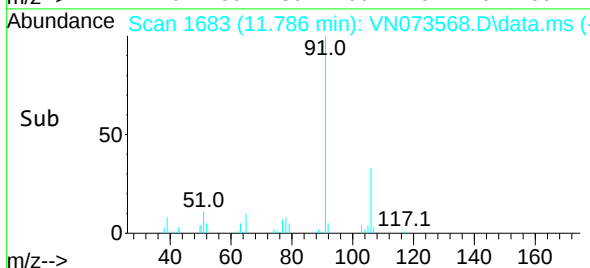
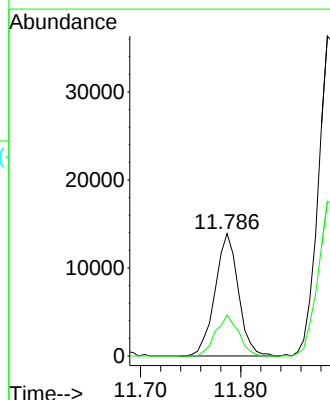
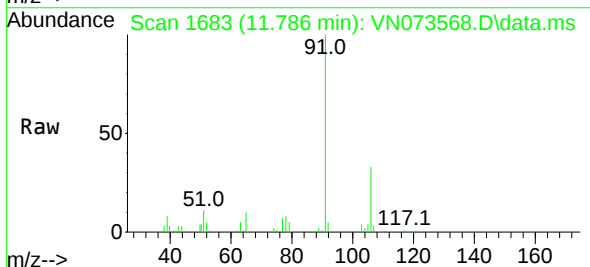
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

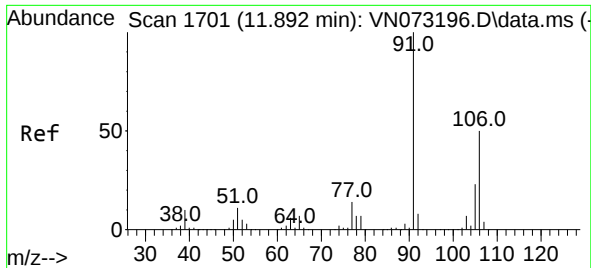
Tgt Ion:164 Resp: 1533  
Ion Ratio Lower Upper  
164 100  
166 57.9 104.2 156.2#  
129 39.4 73.9 110.9#  
131 36.8 69.4 104.2#



#67  
Ethyl Benzene  
Concen: 1.473 ug/l  
RT: 11.786 min Scan# 1683  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 91 Resp: 22430  
Ion Ratio Lower Upper  
91 100  
106 33.5 24.9 37.3

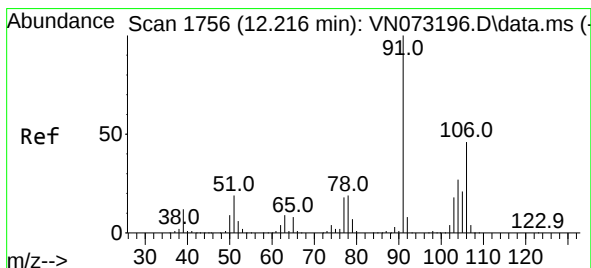
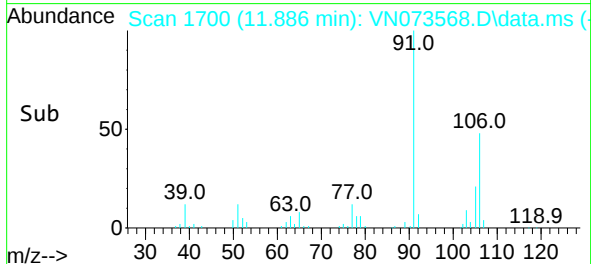
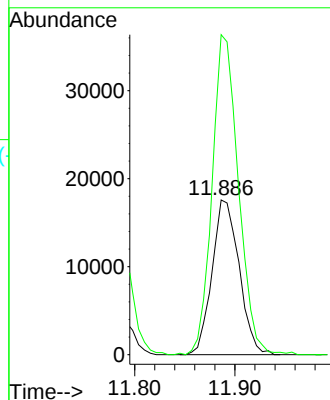
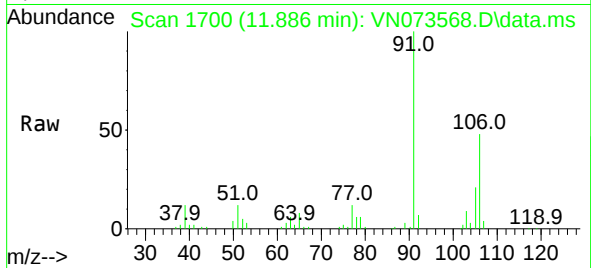




#68  
m/p-Xylenes  
Concen: 5.734 ug/l  
RT: 11.886 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

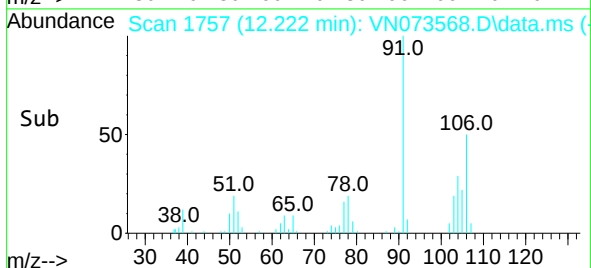
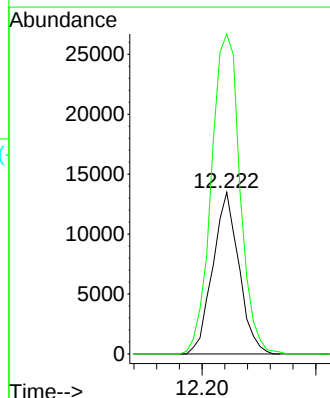
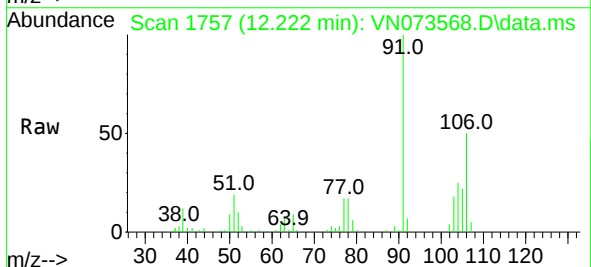
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

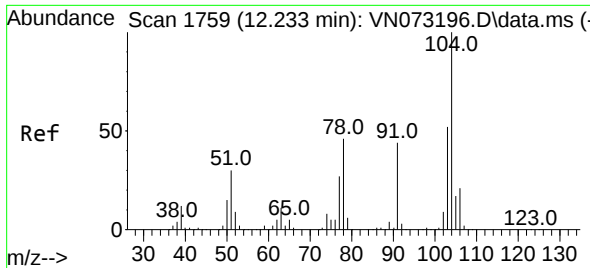
Tgt Ion:106 Resp: 32947  
Ion Ratio Lower Upper  
106 100  
91 200.9 158.9 238.3



#69  
o-Xylene  
Concen: 3.676 ug/l  
RT: 12.222 min Scan# 1757  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion:106 Resp: 21561  
Ion Ratio Lower Upper  
106 100  
91 217.0 106.0 318.0

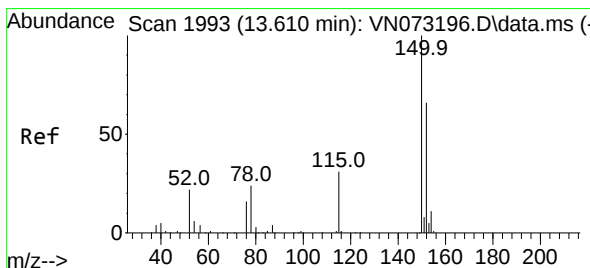
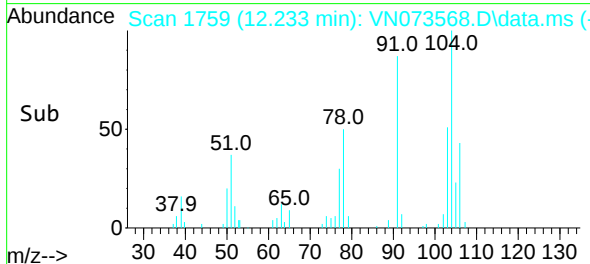
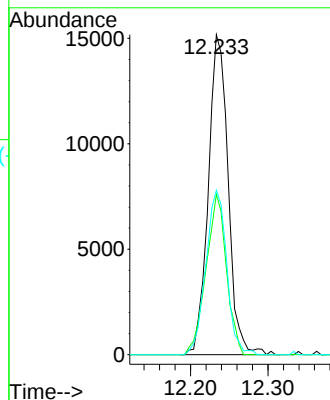
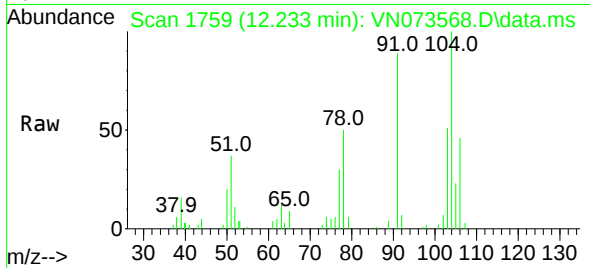




#70  
Styrene  
Concen: 2.984 ug/l  
RT: 12.233 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

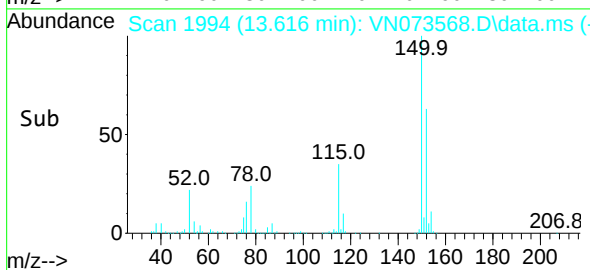
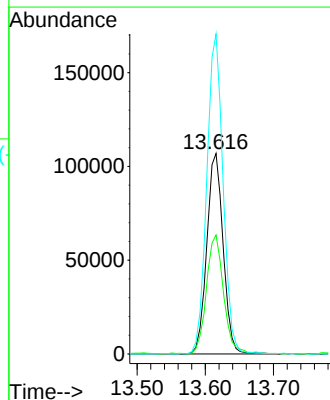
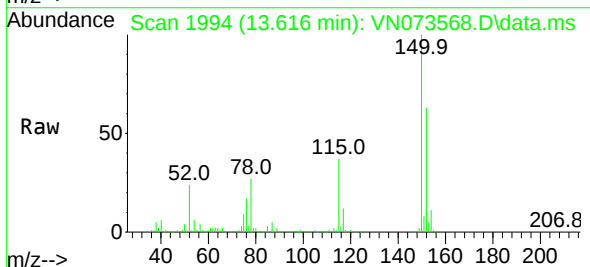
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

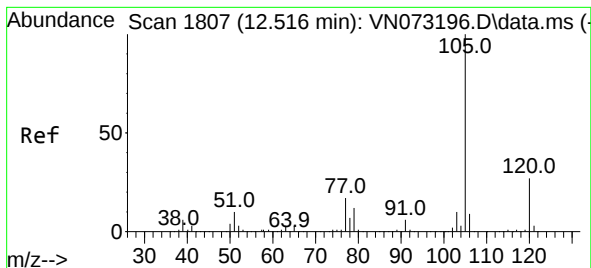
Tgt Ion:104 Resp: 27020  
Ion Ratio Lower Upper  
104 100  
78 51.2 39.5 59.3  
103 54.1 44.0 66.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.616 min Scan# 1994  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion:152 Resp: 178390  
Ion Ratio Lower Upper  
152 100  
115 62.4 28.9 86.7  
150 158.9 0.0 356.2





#73

Isopropylbenzene

Concen: 0.364 ug/l

RT: 12.522 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN073568.D

Acq: 21 Jul 2022 20:27

Instrument :

MSVOA\_N

ClientSampleId :

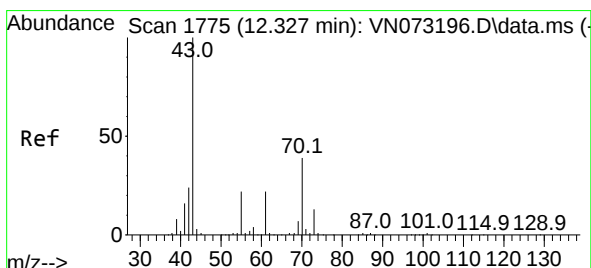
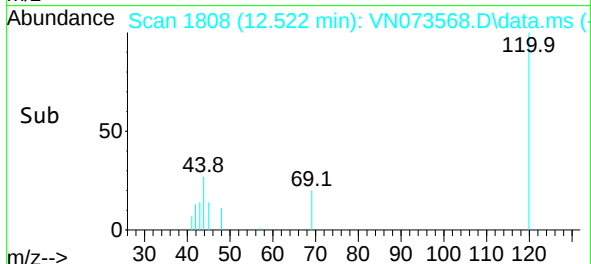
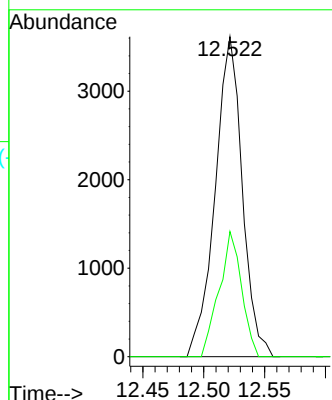
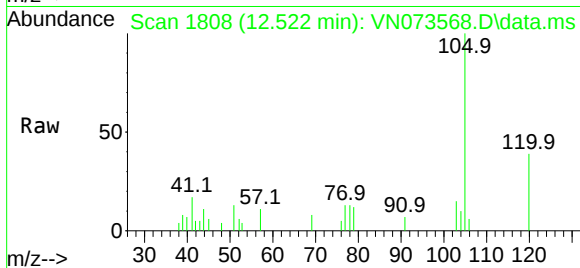
FRAC-TANK-N48964

Tgt Ion:105 Resp: 5607

Ion Ratio Lower Upper

105 100

120 32.3 13.5 40.4



#74

N-ethyl acetate

Concen: 0.471 ug/l

RT: 12.292 min Scan# 1769

Delta R.T. -0.035 min

Lab File: VN073568.D

Acq: 21 Jul 2022 20:27

Tgt Ion: 43 Resp: 3630

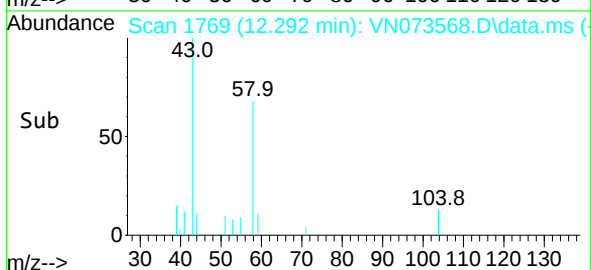
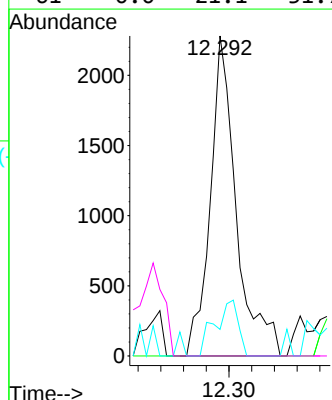
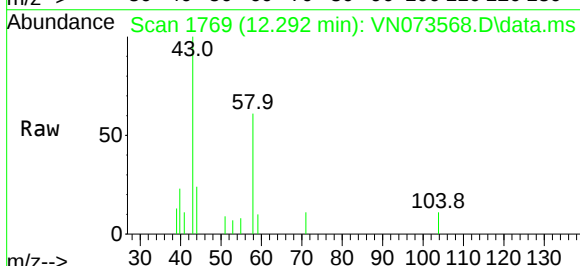
Ion Ratio Lower Upper

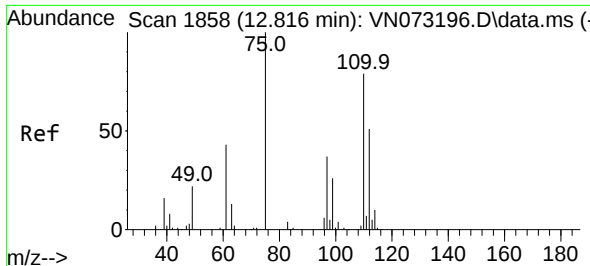
43 100

70 0.0 39.0 58.4#

55 15.6 21.1 31.7#

61 0.0 21.1 31.7#

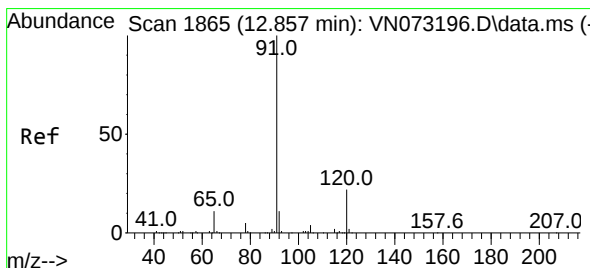
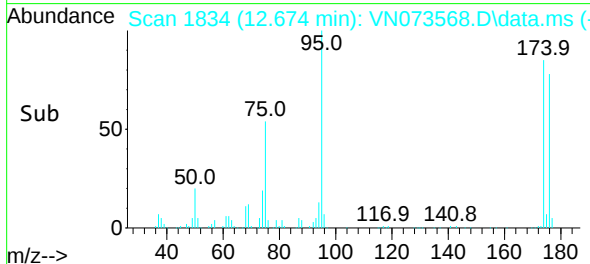
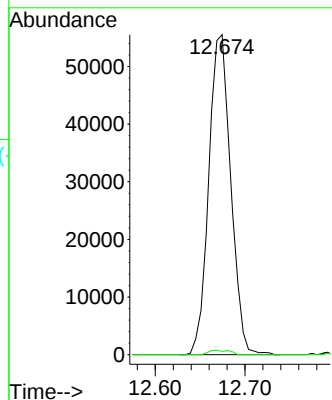
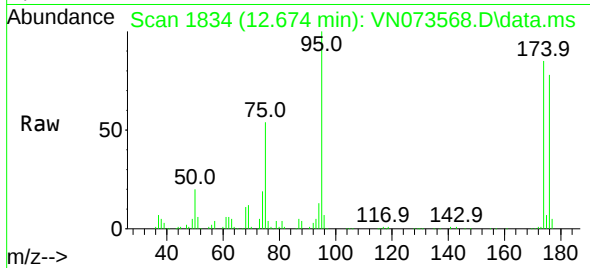




#76  
1,2,3-Trichloropropane  
Concen: 20.265 ug/l  
RT: 12.674 min Scan# 1858  
Delta R.T. -0.142 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

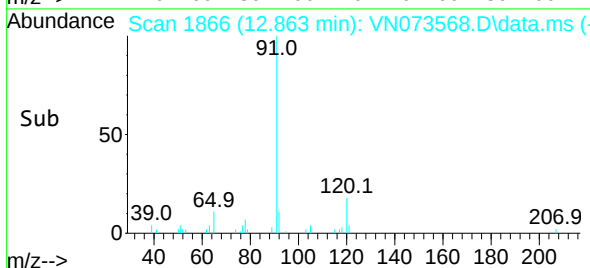
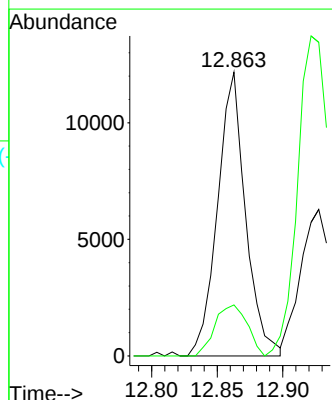
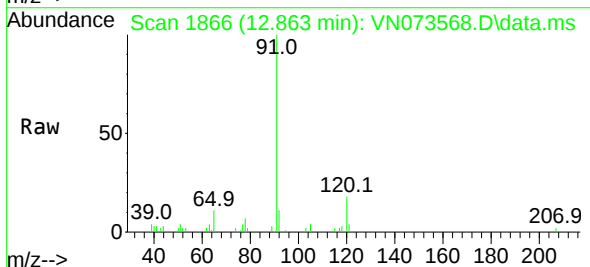
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

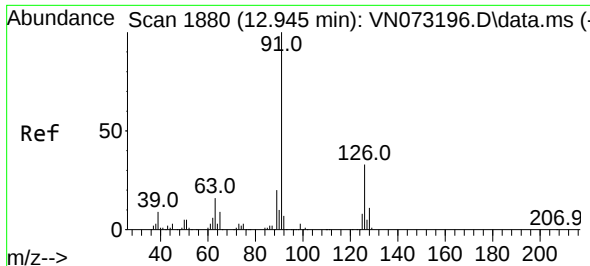
Tgt Ion: 75 Resp: 94527  
Ion Ratio Lower Upper  
75 100  
77 1.3 98.5 295.5#



#78  
n-propylbenzene  
Concen: 1.055 ug/l  
RT: 12.863 min Scan# 1866  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 91 Resp: 18059  
Ion Ratio Lower Upper  
91 100  
120 20.7 11.9 35.5

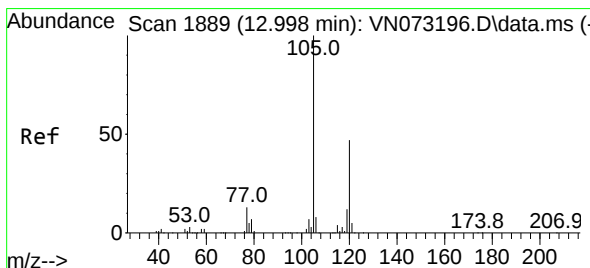
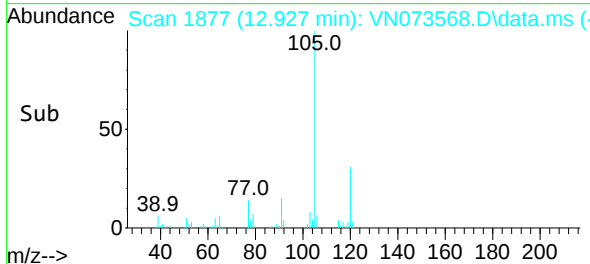
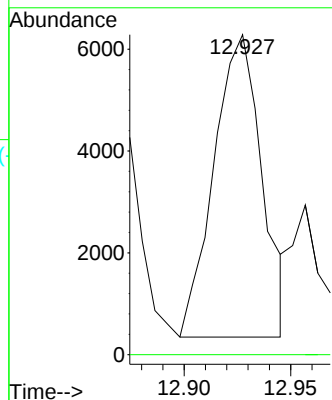
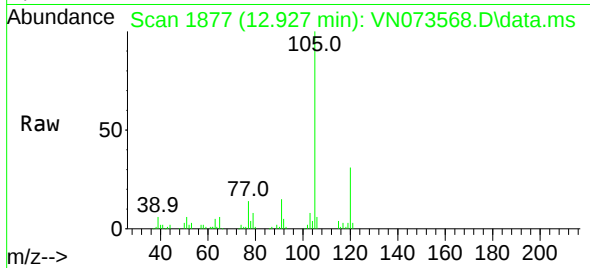




#79  
2-Chlorotoluene  
Concen: 0.864 ug/l  
RT: 12.927 min Scan# 1877  
Delta R.T. -0.018 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

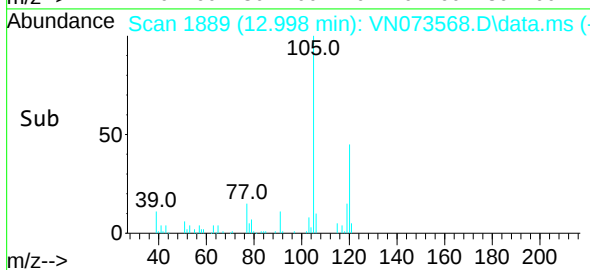
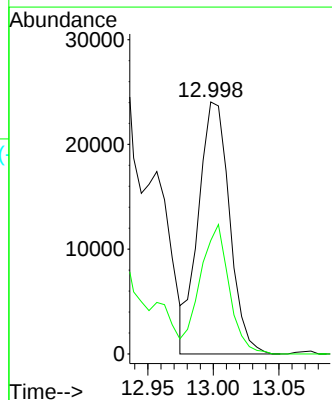
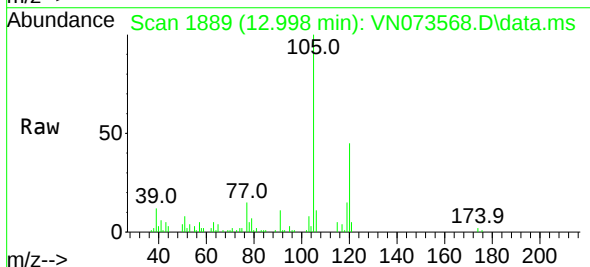
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

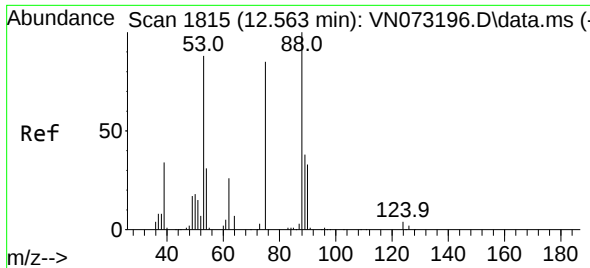
Tgt Ion: 91 Resp: 9360  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.3 51.9#



#80  
1,3,5-Trimethylbenzene  
Concen: 3.171 ug/l  
RT: 12.998 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 105 Resp: 39819  
Ion Ratio Lower Upper  
105 100  
120 48.1 24.9 74.7

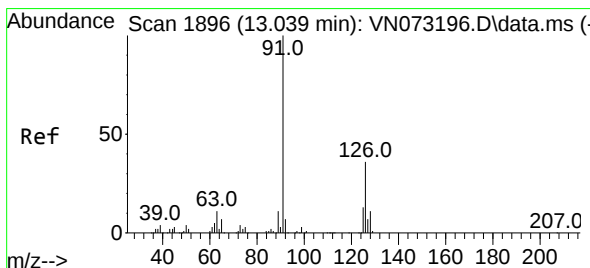
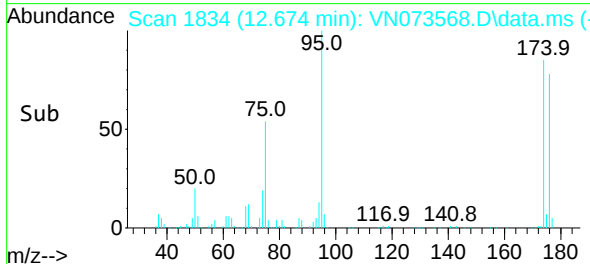
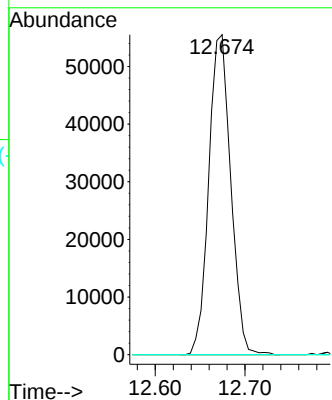
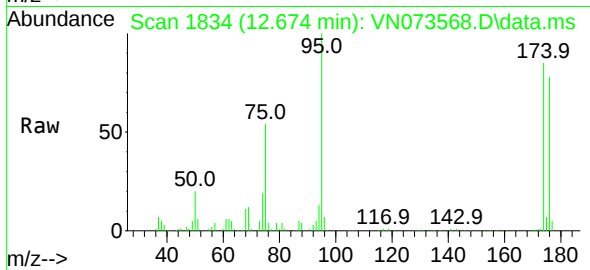




#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.576 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.111 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

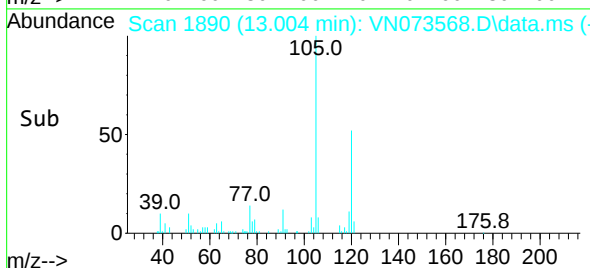
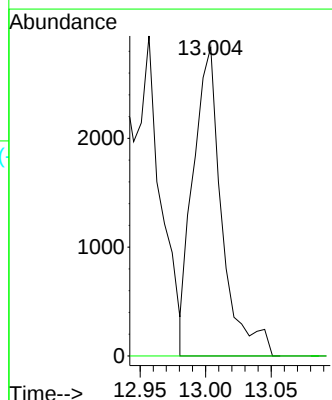
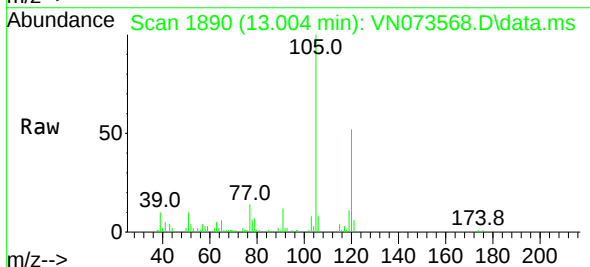
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

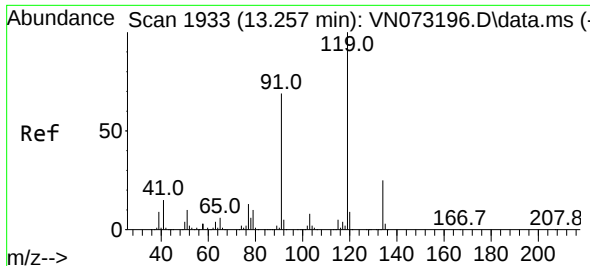
Tgt Ion: 75 Resp: 94527  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 37.2 55.8#



#82  
4-Chlorotoluene  
Concen: 0.412 ug/l  
RT: 13.004 min Scan# 1890  
Delta R.T. -0.035 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 91 Resp: 4321  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.2 51.6#

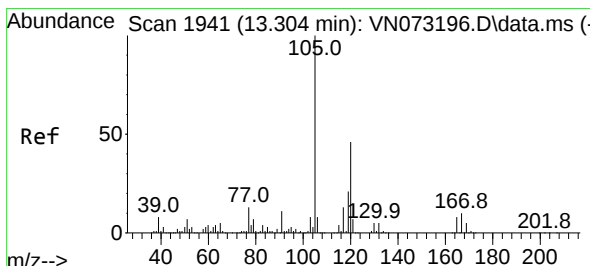
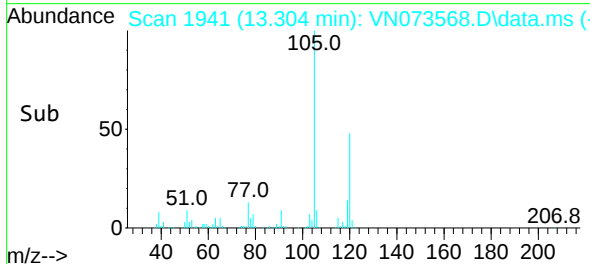
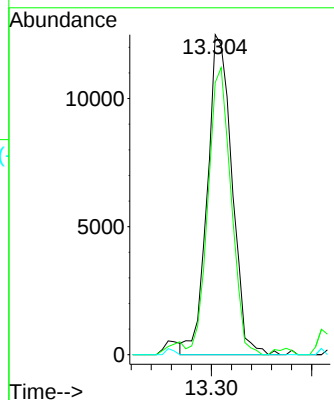
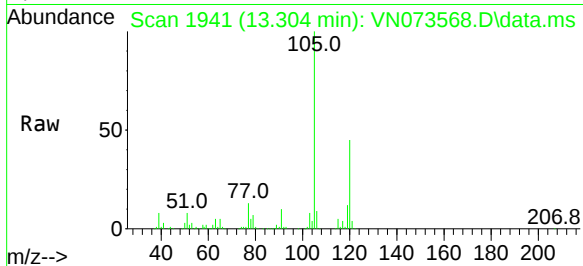




#83  
tert-Butylbenzene  
Concen: 1.898 ug/l  
RT: 13.304 min Scan# 1941  
Delta R.T. 0.047 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

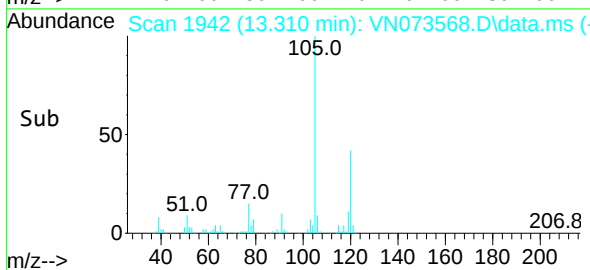
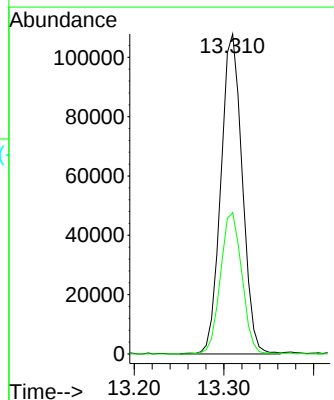
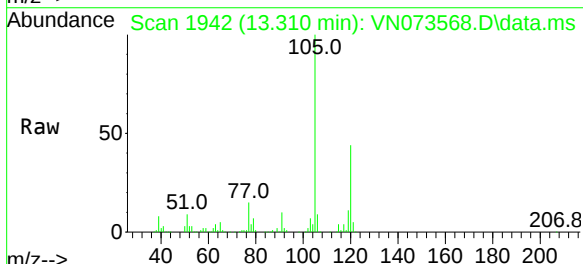
Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

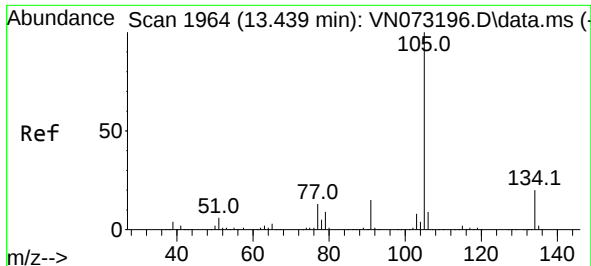
Tgt Ion:119 Resp: 21361  
Ion Ratio Lower Upper  
119 100  
91 83.7 31.6 94.8  
134 0.0 13.7 41.1#



#84  
1,2,4-Trimethylbenzene  
Concen: 14.221 ug/l  
RT: 13.310 min Scan# 1942  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion:105 Resp: 178272  
Ion Ratio Lower Upper  
105 100  
120 44.2 23.3 69.8

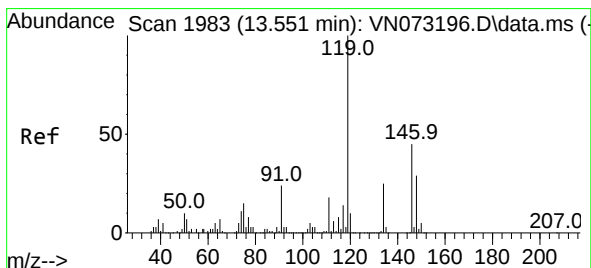
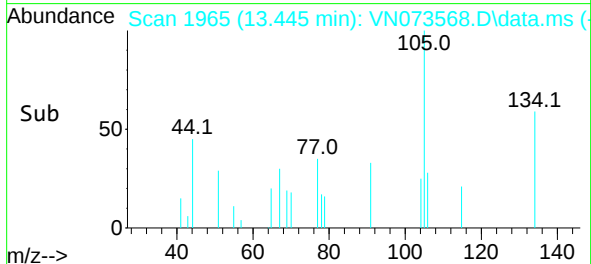
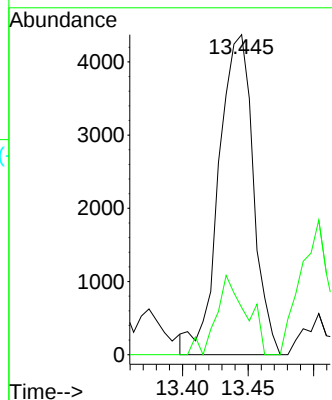
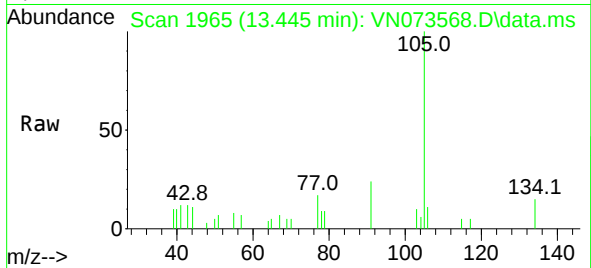




#85  
 sec-Butylbenzene  
 Concen: 0.528 ug/l  
 RT: 13.445 min Scan# 1965  
 Delta R.T. 0.006 min  
 Lab File: VN073568.D  
 Acq: 21 Jul 2022 20:27

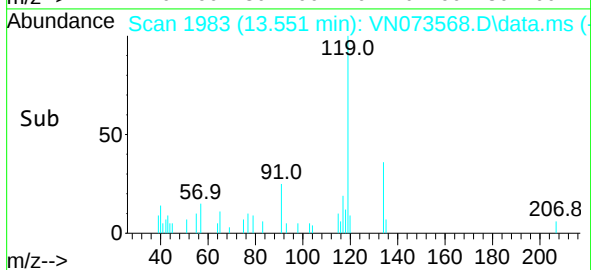
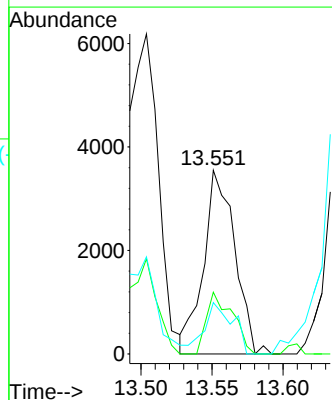
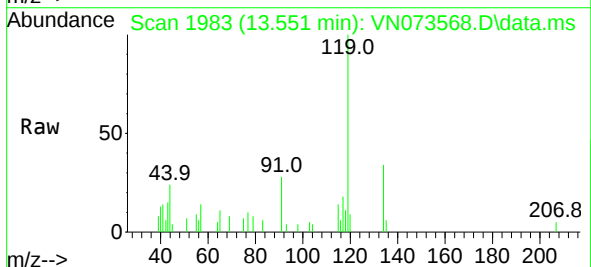
Instrument :  
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 ClientSampleId :  
 FRAC-TANK-N48964

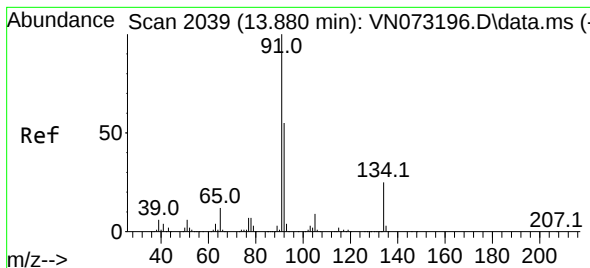
Tgt Ion:105 Resp: 7978  
 Ion Ratio Lower Upper  
 105 100  
 134 21.7 10.4 31.1



#86  
 p-Isopropyltoluene  
 Concen: 0.445 ug/l  
 RT: 13.551 min Scan# 1983  
 Delta R.T. -0.000 min  
 Lab File: VN073568.D  
 Acq: 21 Jul 2022 20:27

Tgt Ion:119 Resp: 5432  
 Ion Ratio Lower Upper  
 119 100  
 134 28.1 13.3 39.8  
 91 25.1 11.3 33.9





#89

n-Butylbenzene

Concen: 0.848 ug/l

RT: 13.880 min Scan# 2039

Delta R.T. 0.000 min

Lab File: VN073568.D

Acq: 21 Jul 2022 20:27

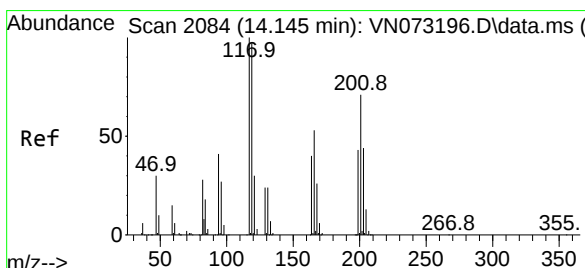
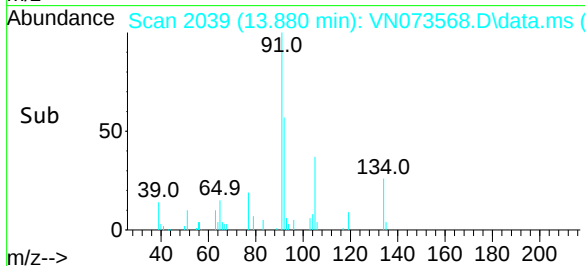
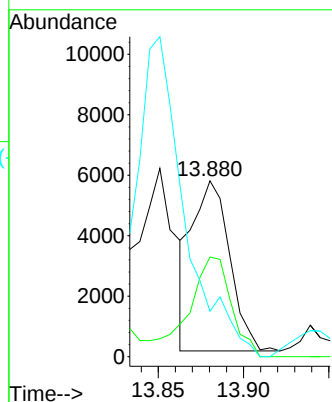
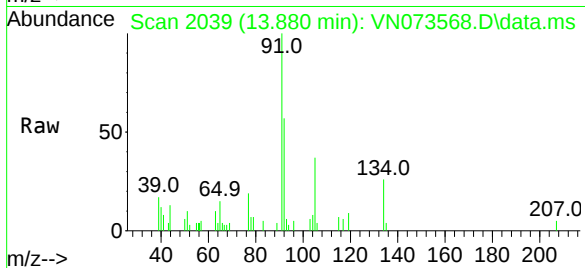
Instrument :

MSVOA\_N

ClientSampleId :

FRAC-TANK-N48964

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 91    | Resp: | 8629 |
| Ion Ratio | Lower | Upper |      |
| 91        | 100   |       |      |
| 92        | 66.1  | 26.9  | 80.7 |
| 134       | 0.0   | 13.6  | 40.8 |



#90

Hexachloroethane

Concen: 2.279 ug/l

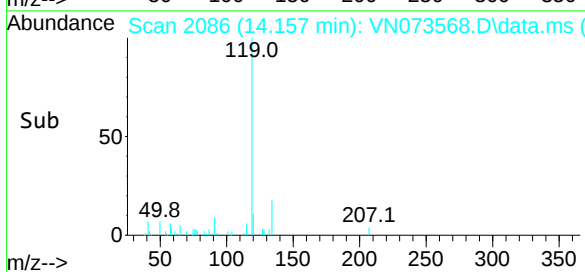
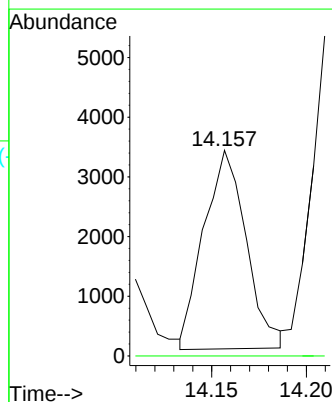
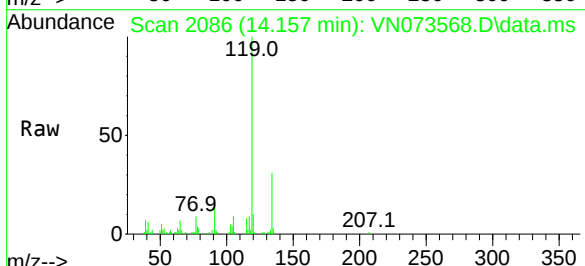
RT: 14.157 min Scan# 2086

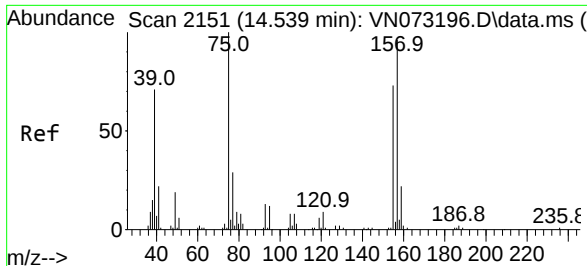
Delta R.T. 0.012 min

Lab File: VN073568.D

Acq: 21 Jul 2022 20:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 5187  |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 201       | 0.0   | 40.6  | 122.0 |

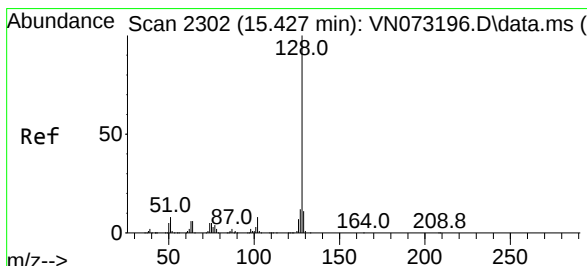
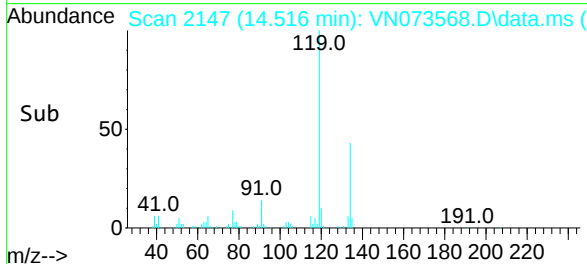
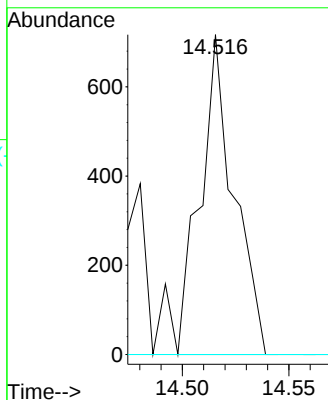
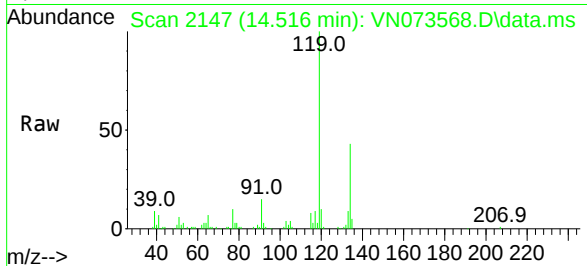




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.634 ug/l  
RT: 14.516 min Scan# 2151  
Delta R.T. -0.023 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-TANK-N48964

Tgt Ion: 75 Resp: 788  
Ion Ratio Lower Upper  
75 100  
155 0.0 44.9 134.5#  
157 0.0 59.0 176.8#



#95  
Naphthalene  
Concen: 15.433 ug/l  
RT: 15.433 min Scan# 2303  
Delta R.T. 0.006 min  
Lab File: VN073568.D  
Acq: 21 Jul 2022 20:27

Tgt Ion: 128 Resp: 212178  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.3 15.5  
129 11.2 8.6 13.0

