

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060322\  
 Data File : VX029202.D  
 Acq On : 03 Jun 2022 19:55  
 Operator : JC/MD  
 Sample : N3022-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 48BR-20220525

Quant Time: Jun 06 02:37:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X053122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 01 04:45:42 2022  
 Response via : Initial Calibration

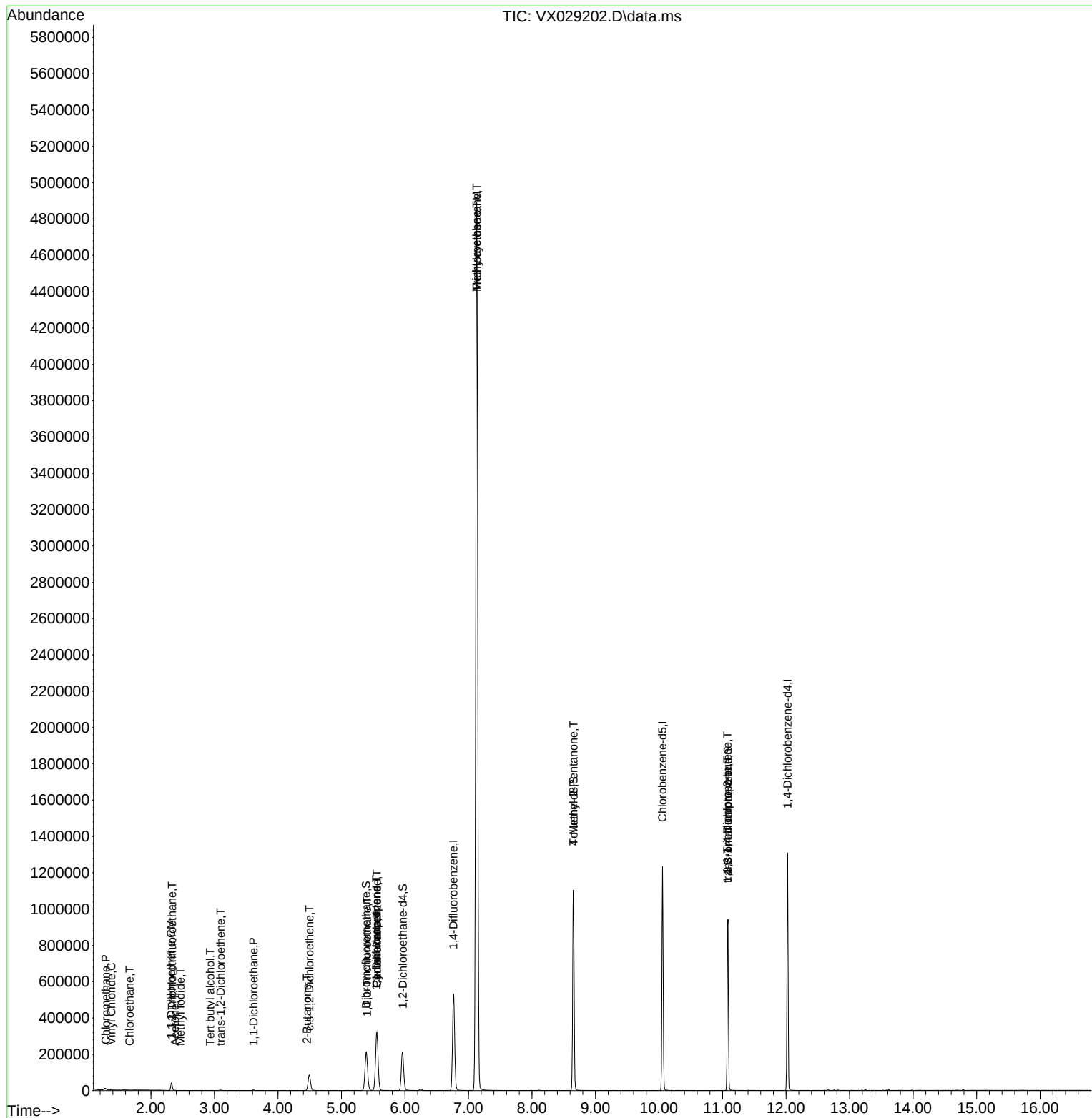
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556     | 168   | 302851   | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 569657   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 562103   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 263678   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.964     | 65    | 204346   | 59.836    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 61 - 141 | Recovery  | = 119.680% |          |
| 35) Dibromofluoromethane      | 5.385     | 113   | 188519   | 49.823    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 69 - 133 | Recovery  | = 99.640%  |          |
| 50) Toluene-d8                | 8.653     | 98    | 681031   | 49.211    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 126 | Recovery  | = 98.420%  |          |
| 62) 4-Bromofluorobenzene      | 11.085    | 95    | 270987   | 50.657    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 135 | Recovery  | = 101.320% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 1.288     | 50    | 591      | 0.214     | ug/l       | # 87     |
| 4) Vinyl Chloride             | 1.374     | 62    | 2160     | 0.713     | ug/l       | # 76     |
| 5) Bromomethane               | 1.617     | 94    | 583      | Below Cal | #          | 61       |
| 6) Chloroethane               | 1.666     | 64    | 277      | 1.506     | ug/l       | # 43     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331     | 101   | 5239     | 1.876     | ug/l       | # 95     |
| 10) Methyl Iodide             | 2.465     | 142   | 357      | 4.323     | ug/l       | # 61     |
| 11) Tert butyl alcohol        | 2.934     | 59    | 446      | 0.564     | ug/l       | # 72     |
| 12) 1,1-Dichloroethene        | 2.319     | 96    | 11504    | 4.215     | ug/l       | # 96     |
| 16) Acetone                   | 2.380     | 43    | 1026     | 0.763     | ug/l       | # 59     |
| 21) trans-1,2-Dichloroethene  | 3.099     | 96    | 1338     | 0.434     | ug/l       | # 92     |
| 24) 1,1-Dichloroethane        | 3.617     | 63    | 4265     | 0.841     | ug/l       | # 90     |
| 25) 2-Butanone                | 4.458     | 43    | 705      | 0.325     | ug/l       | # 44     |
| 27) cis-1,2-Dichloroethene    | 4.495     | 96    | 58207    | 15.850    | ug/l       | # 87     |
| 31) Cyclohexane               | 5.556     | 56    | 5956     | 1.341     | ug/l       | # 1      |
| 32) 1,1,1-Trichloroethane     | 5.403     | 97    | 1334     | 0.262     | ug/l       | # 39     |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 23054    | 4.735     | ug/l       | # 49     |
| 38) Carbon Tetrachloride      | 5.556     | 117   | 32360    | 5.816     | ug/l       | # 16     |
| 39) Methylcyclohexane         | 7.129     | 83    | 21944    | 3.646     | ug/l       | # 1      |
| 44) Trichloroethene           | 7.129     | 130   | 1967608  | 466.122   | ug/l       | # 96     |
| 51) 4-Methyl-2-Pentanone      | 8.653     | 43    | 2703     | 0.551     | ug/l       | # 1      |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 131131   | 24.532    | ug/l       | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 131131   | 71.973    | ug/l       | # 15     |
| -----                         |           |       |          |           |            |          |

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

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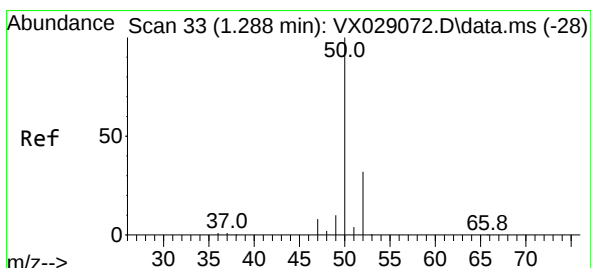
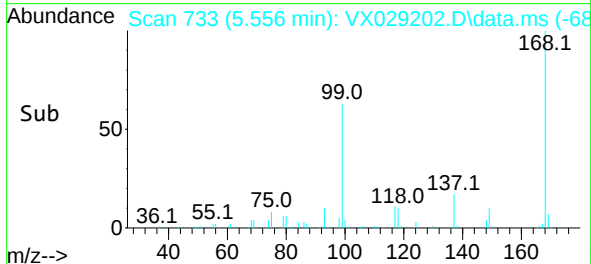
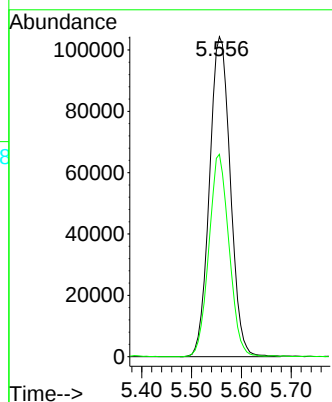
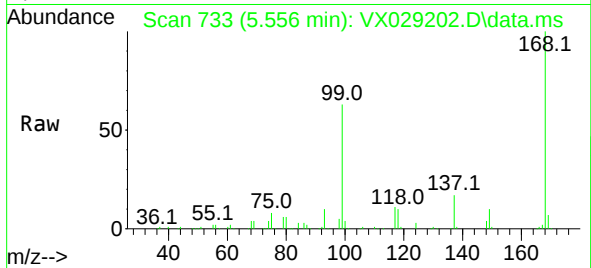




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

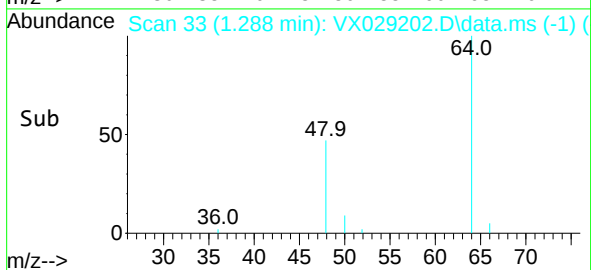
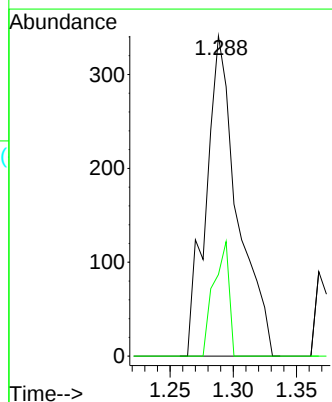
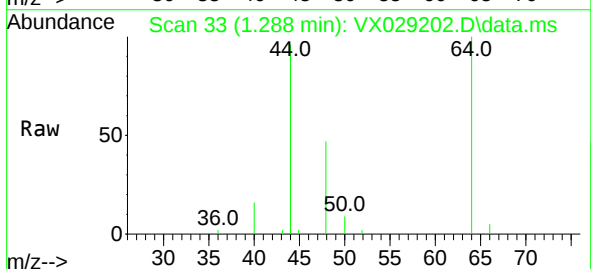
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

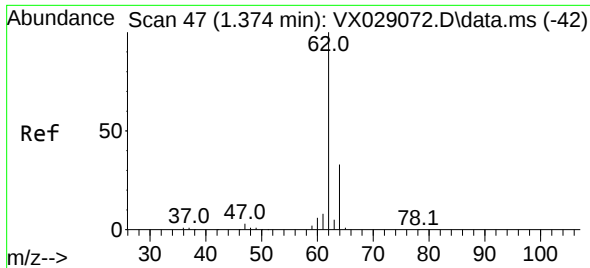
Tgt Ion:168 Resp: 302851  
Ion Ratio Lower Upper  
168 100  
99 63.2 41.7 62.5#



#3  
Chloromethane  
Concen: 0.214 ug/l  
RT: 1.288 min Scan# 33  
Delta R.T. 0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 50 Resp: 591  
Ion Ratio Lower Upper  
50 100  
52 25.5 26.4 39.6#

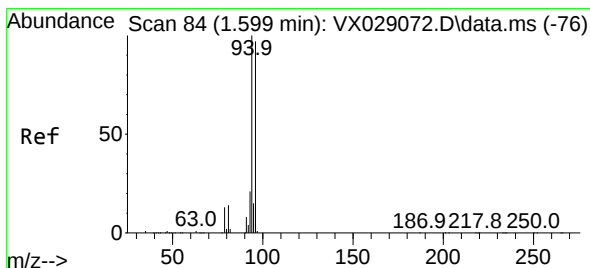
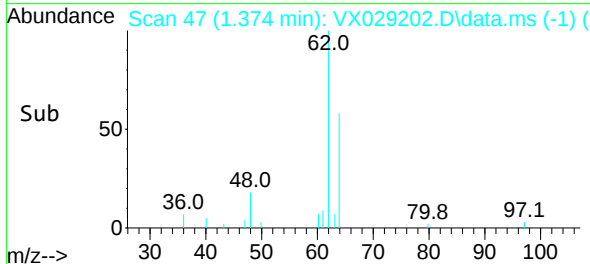
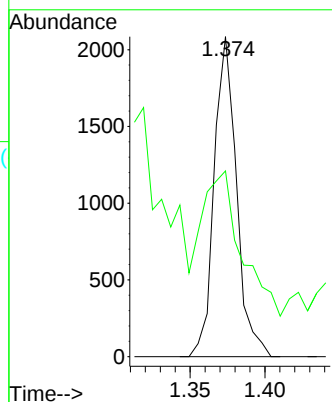
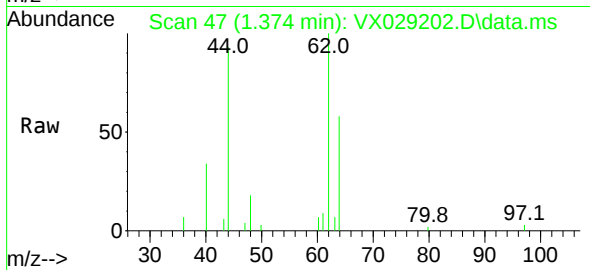




#4  
 Vinyl Chloride  
 Concen: 0.713 ug/l  
 RT: 1.374 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VX029202.D  
 Acq: 03 Jun 2022 19:55

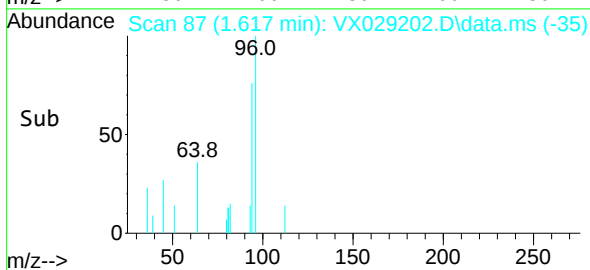
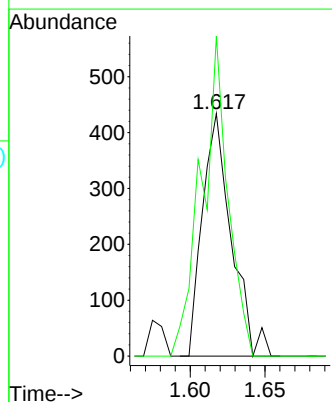
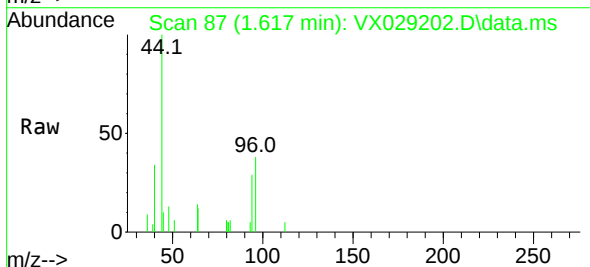
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 48BR-20220525

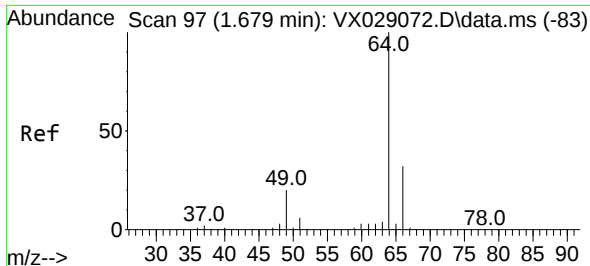
Tgt Ion: 62 Resp: 2160  
 Ion Ratio Lower Upper  
 62 100  
 64 45.4 25.5 38.3#



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.617 min Scan# 87  
 Delta R.T. 0.018 min  
 Lab File: VX029202.D  
 Acq: 03 Jun 2022 19:55

Tgt Ion: 94 Resp: 583  
 Ion Ratio Lower Upper  
 94 100  
 96 132.0 75.3 112.9#

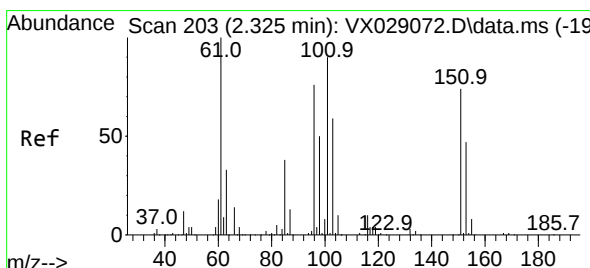
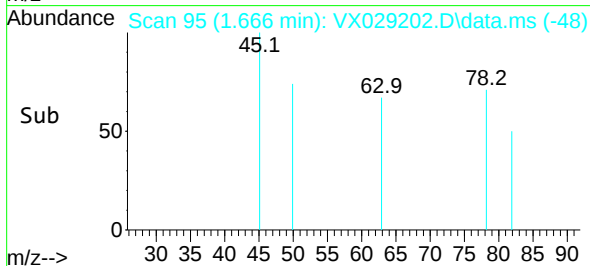
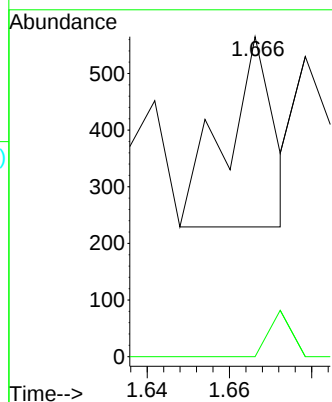
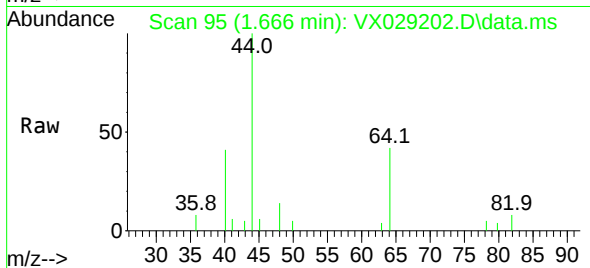




#6  
Chloroethane  
Concen: 1.506 ug/l  
RT: 1.666 min Scan# 91  
Delta R.T. -0.013 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

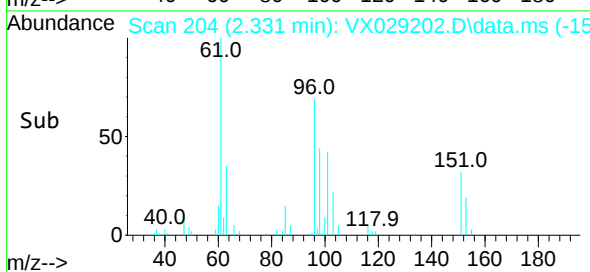
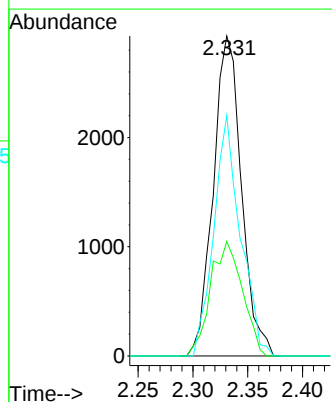
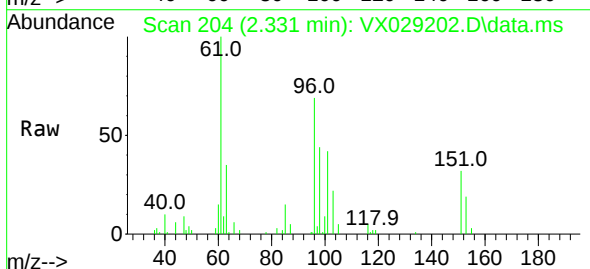
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

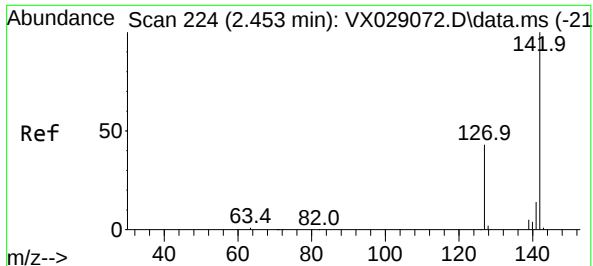
Tgt Ion: 64 Resp: 277  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.3 37.9#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.876 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.006 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 101 Resp: 5239  
Ion Ratio Lower Upper  
101 100  
85 40.4 33.5 50.3  
151 71.1 61.8 92.6

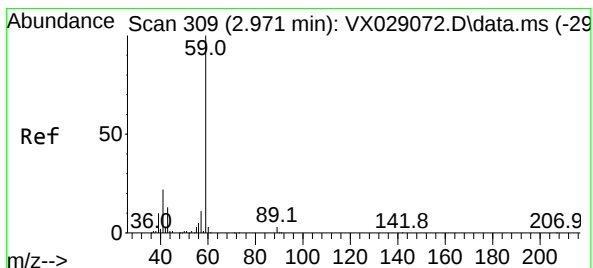
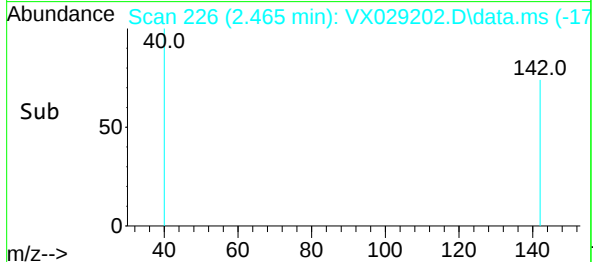
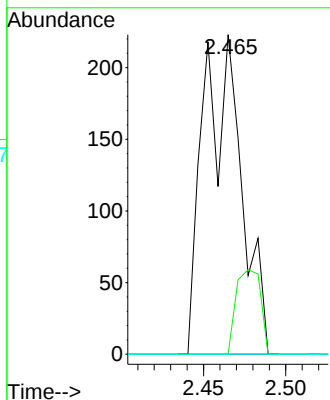
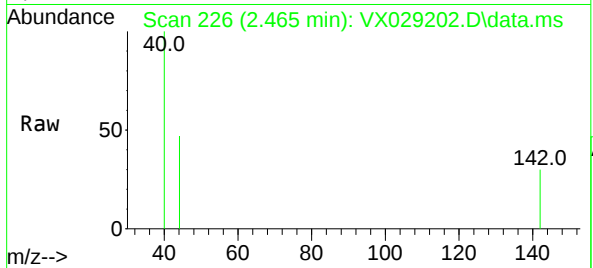




#10  
Methyl Iodide  
Concen: 4.323 ug/l  
RT: 2.465 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

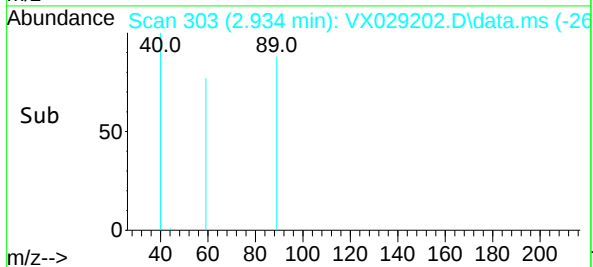
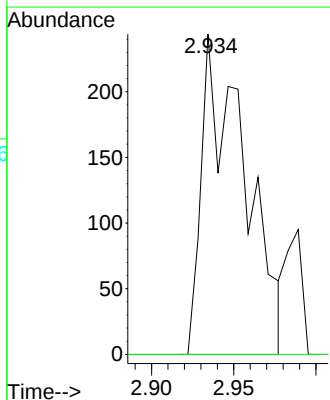
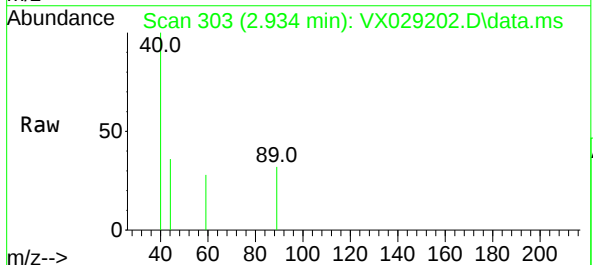
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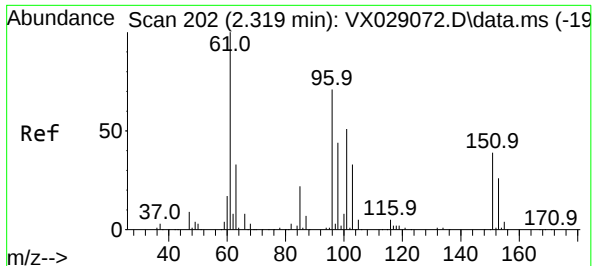
Tgt Ion:142 Resp: 357  
Ion Ratio Lower Upper  
142 100  
127 17.1 33.9 50.9#  
141 0.0 11.4 17.2#



#11  
Tert butyl alcohol  
Concen: 0.564 ug/l  
RT: 2.934 min Scan# 303  
Delta R.T. -0.037 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 59 Resp: 446  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

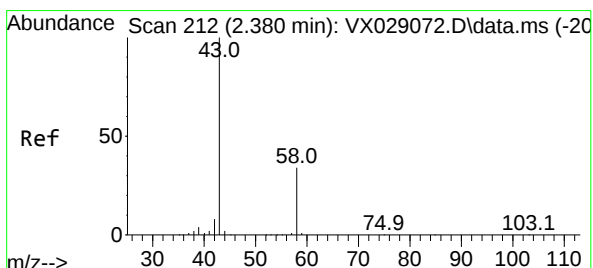
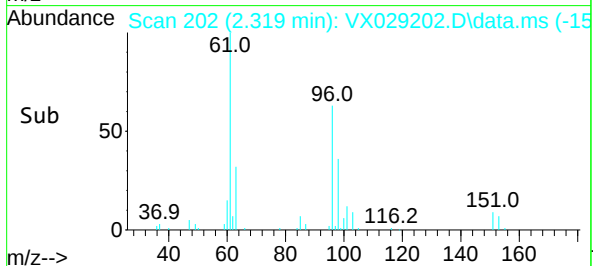
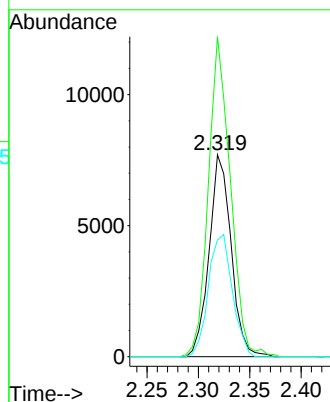
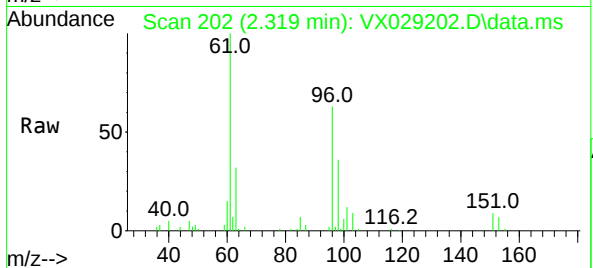




#12  
1,1-Dichloroethene  
Concen: 4.215 ug/l  
RT: 2.319 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

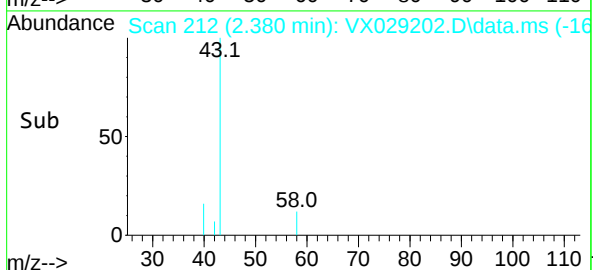
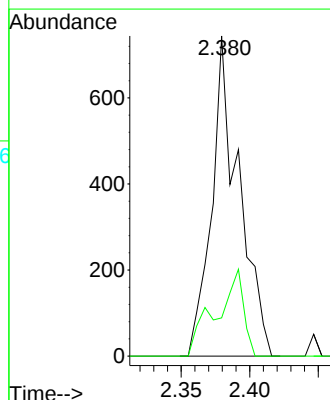
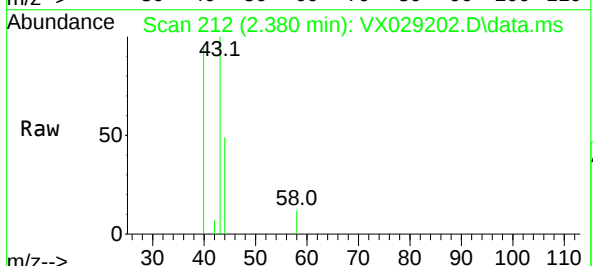
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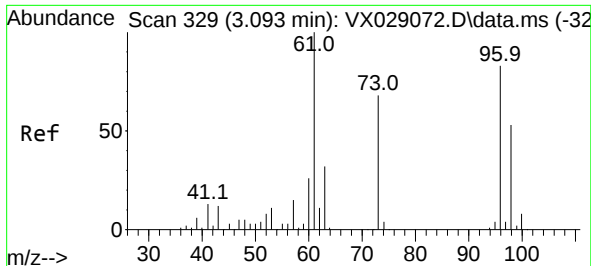
Tgt Ion: 96 Resp: 11504  
Ion Ratio Lower Upper  
96 100  
61 158.5 124.6 187.0  
98 57.9 51.0 76.4



#16  
Acetone  
Concen: 0.763 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 43 Resp: 1026  
Ion Ratio Lower Upper  
43 100  
58 12.0 28.8 43.2#

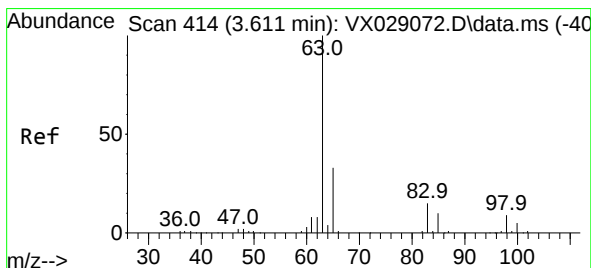
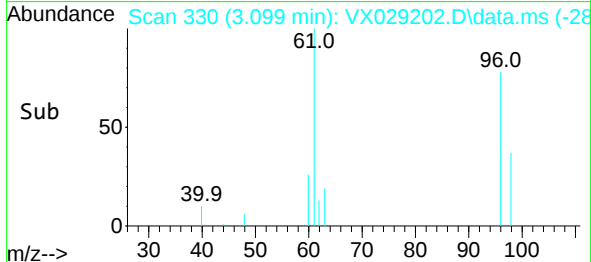
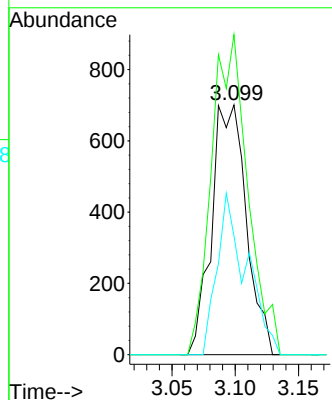
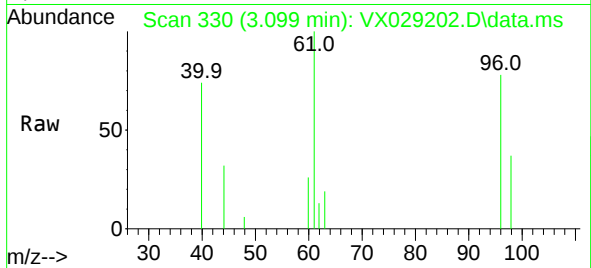




#21  
trans-1,2-Dichloroethene  
Concen: 0.434 ug/l  
RT: 3.099 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

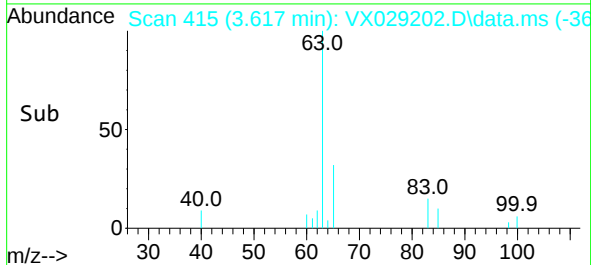
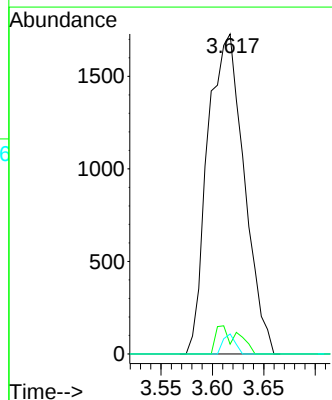
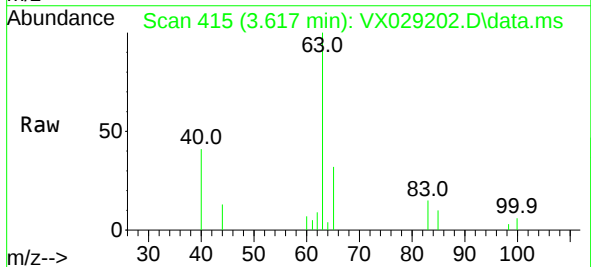
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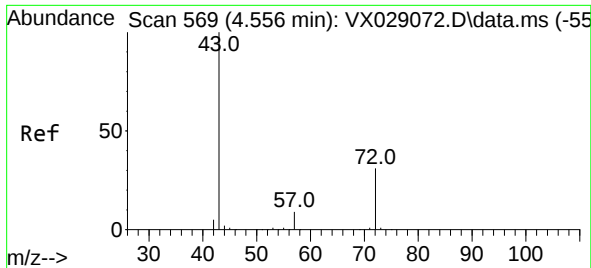
Tgt Ion: 96 Resp: 1338  
Ion Ratio Lower Upper  
96 100  
61 128.1 105.4 158.2  
98 47.5 50.0 75.0#



#24  
1,1-Dichloroethane  
Concen: 0.841 ug/l  
RT: 3.617 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 63 Resp: 4265  
Ion Ratio Lower Upper  
63 100  
98 3.1 3.9 11.7#  
100 6.2 2.4 7.2





#25

2-Butanone

Concen: 0.325 ug/l

RT: 4.458 min Scan# 51

Delta R.T. -0.098 min

Lab File: VX029202.D

Acq: 03 Jun 2022 19:55

Instrument :

MSVOA\_X

ClientSampleId :

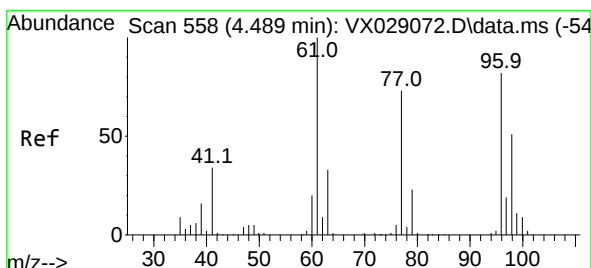
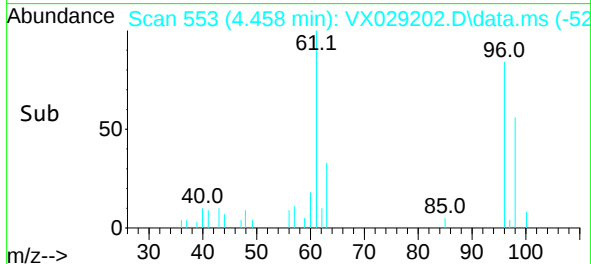
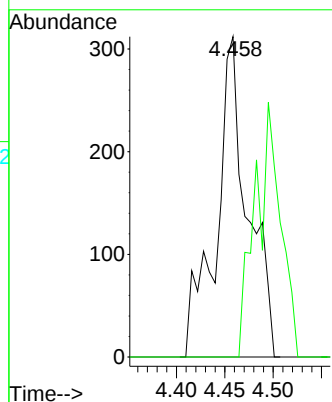
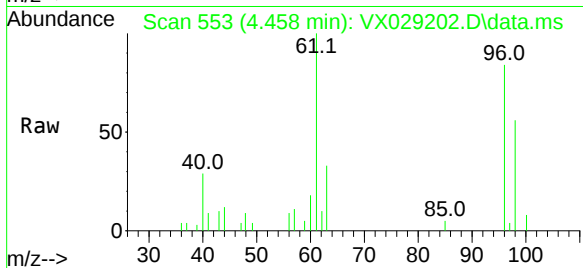
48BR-20220525

Tgt Ion: 43 Resp: 705

Ion Ratio Lower Upper

43 100

72 0.0 24.4 36.6#



#27

cis-1,2-Dichloroethene

Concen: 15.850 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.006 min

Lab File: VX029202.D

Acq: 03 Jun 2022 19:55

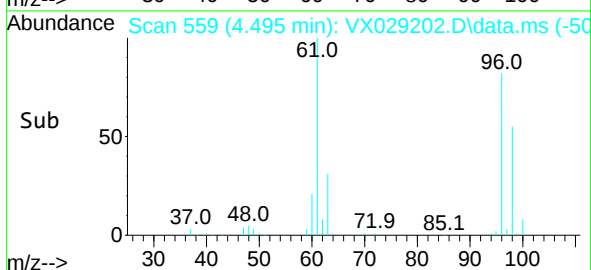
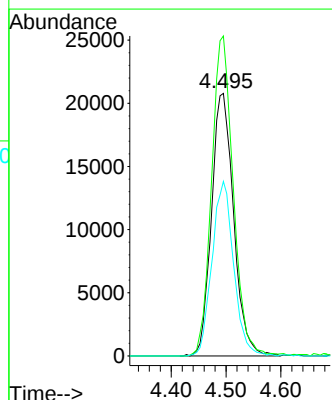
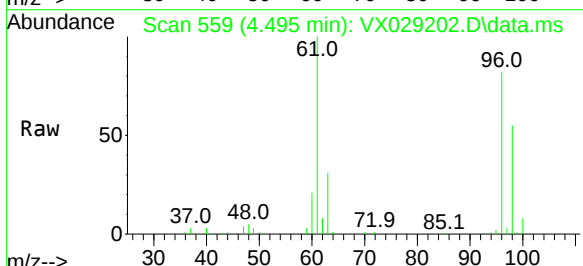
Tgt Ion: 96 Resp: 58207

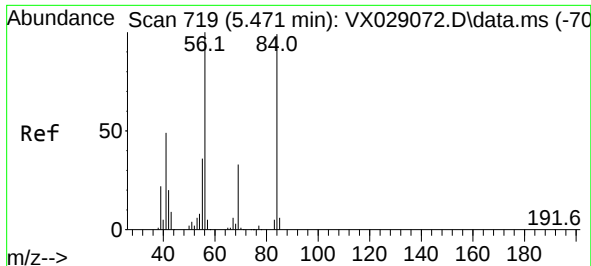
Ion Ratio Lower Upper

96 100

61 119.4 0.0 283.8

98 64.9 0.0 129.8

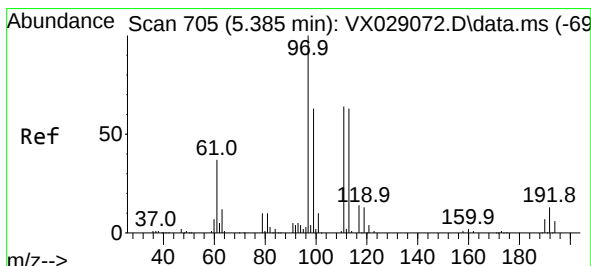
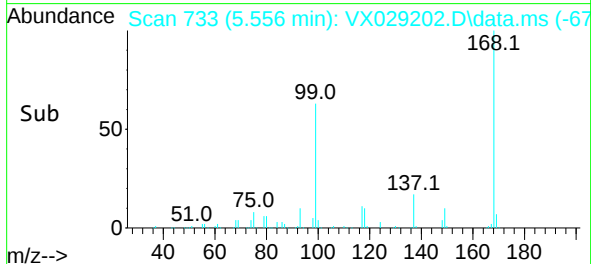
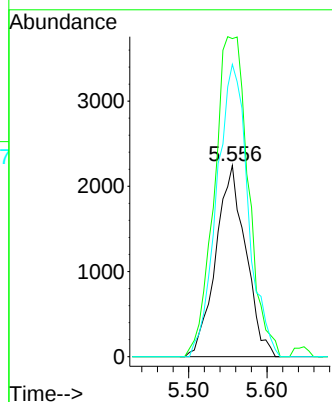
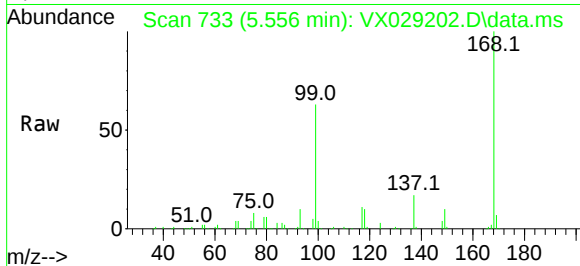




#31  
Cyclohexane  
Concen: 1.341 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

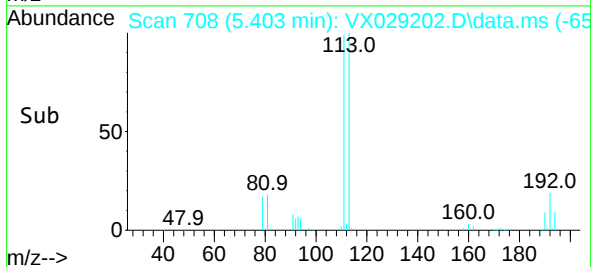
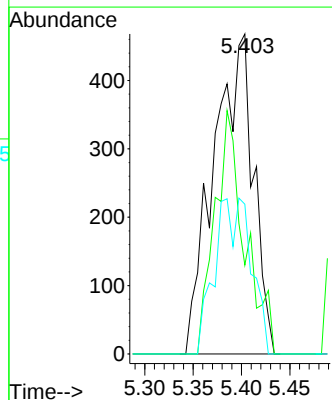
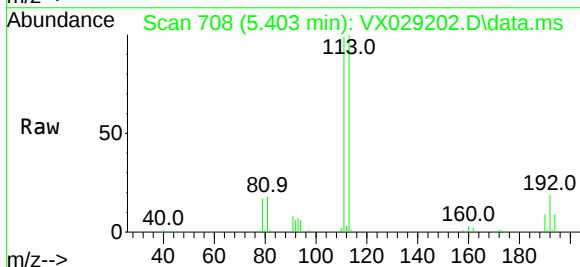
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

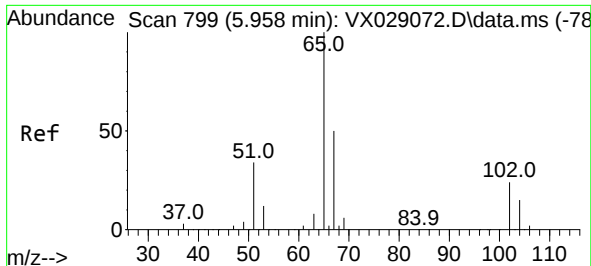
Tgt Ion: 56 Resp: 5956  
Ion Ratio Lower Upper  
56 100  
69 166.4 26.7 40.1#  
84 152.9 77.2 115.8#



#32  
1,1,1-Trichloroethane  
Concen: 0.262 ug/l  
RT: 5.403 min Scan# 708  
Delta R.T. 0.018 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 97 Resp: 1334  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.8 77.6#  
61 24.4 34.0 51.0#





#33

1,2-Dichloroethane-d4

Concen: 59.836 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX029202.D

Acq: 03 Jun 2022 19:55

Instrument :

MSVOA\_X

ClientSampleId :

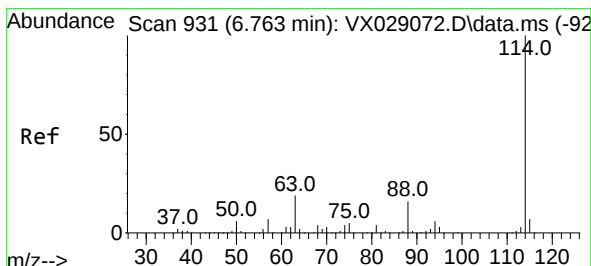
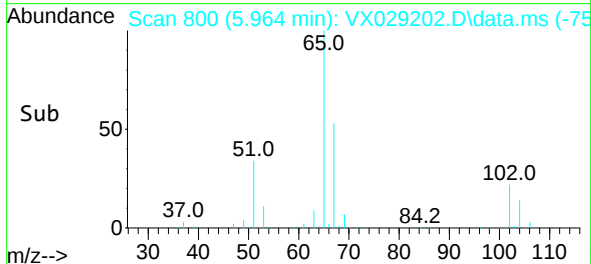
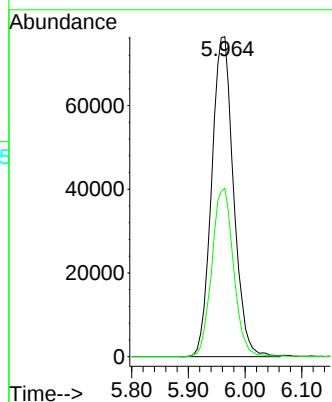
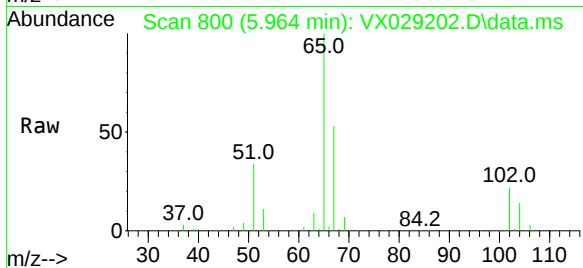
48BR-20220525

Tgt Ion: 65 Resp: 204346

Ion Ratio Lower Upper

65 100

67 52.3 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX029202.D

Acq: 03 Jun 2022 19:55

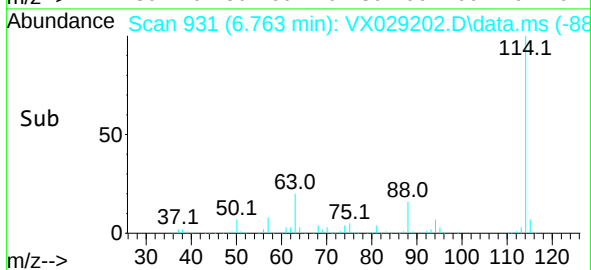
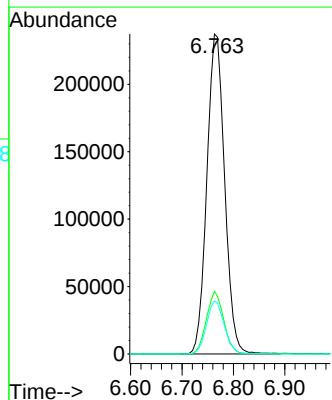
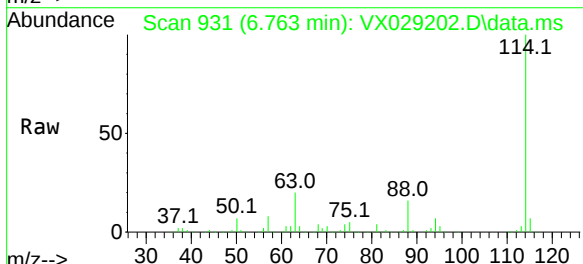
Tgt Ion: 114 Resp: 569657

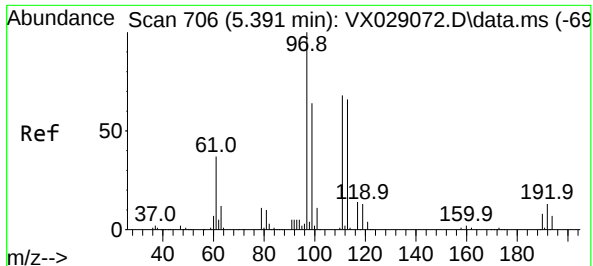
Ion Ratio Lower Upper

114 100

63 19.6 0.0 36.8

88 16.5 0.0 32.4





#35

Dibromofluoromethane

Concen: 49.823 ug/l

RT: 5.385 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX029202.D

Acq: 03 Jun 2022 19:55

Instrument :

MSVOA\_X

ClientSampleId :

48BR-20220525

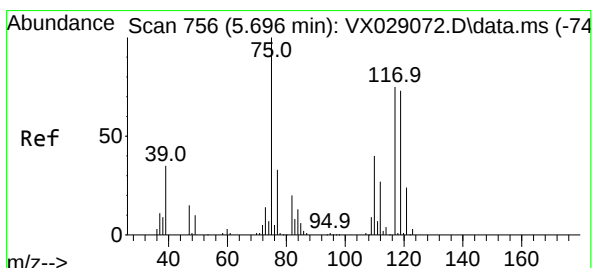
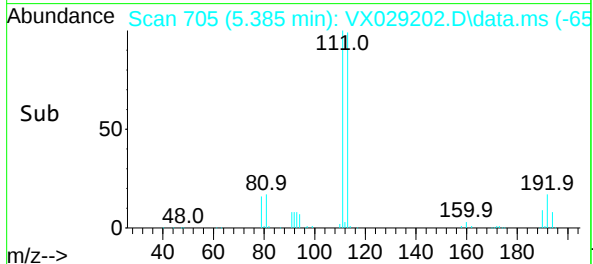
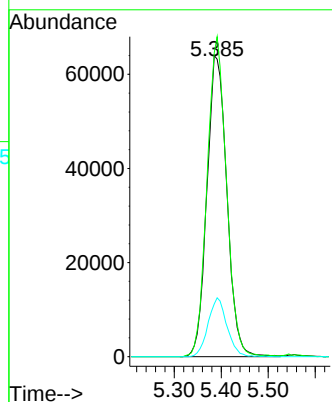
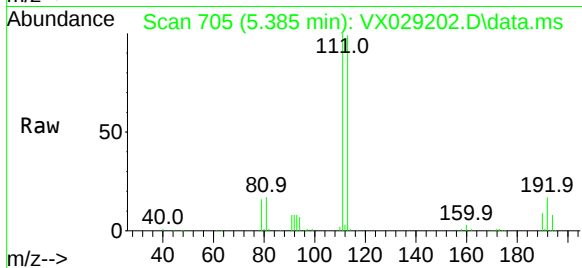
Tgt Ion:113 Resp: 188519

Ion Ratio Lower Upper

113 100

111 103.0 82.8 124.2

192 18.6 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.735 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX029202.D

Acq: 03 Jun 2022 19:55

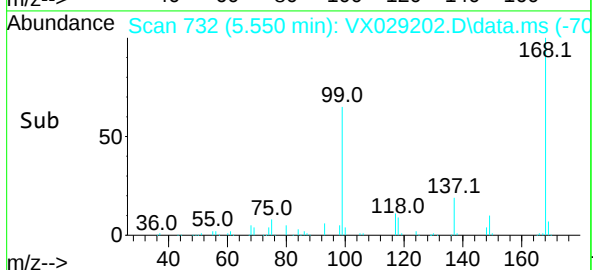
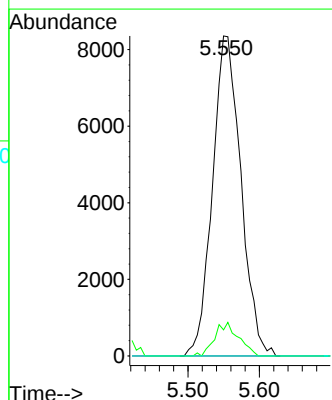
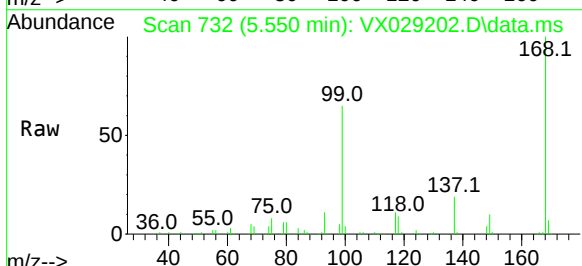
Tgt Ion: 75 Resp: 23054

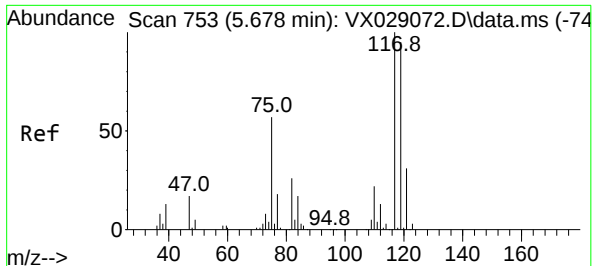
Ion Ratio Lower Upper

75 100

110 8.8 18.3 54.8#

77 0.0 24.8 37.2#

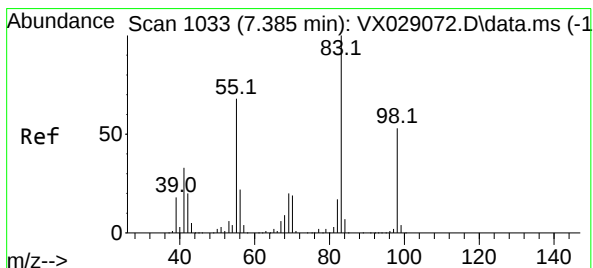
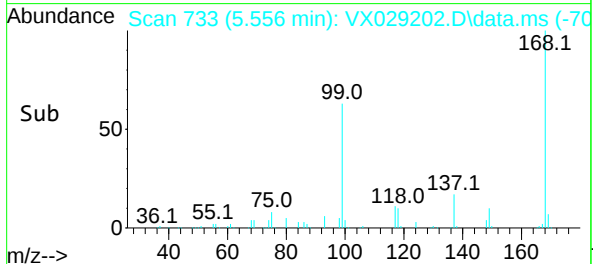
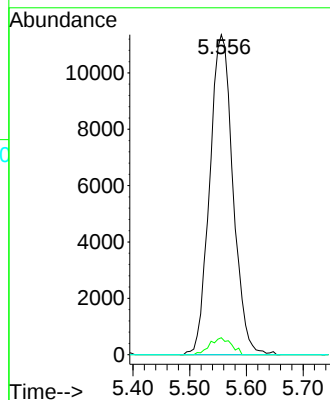
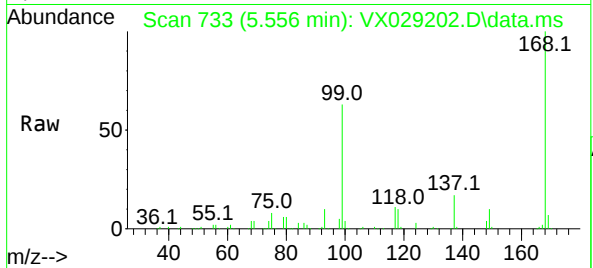




#38  
Carbon Tetrachloride  
Concen: 5.816 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

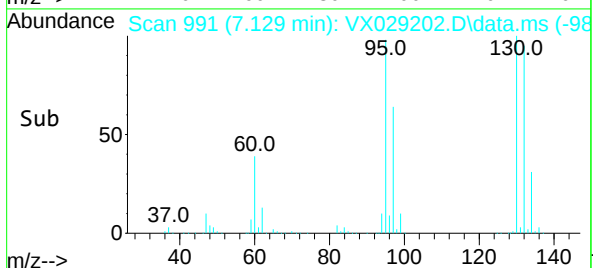
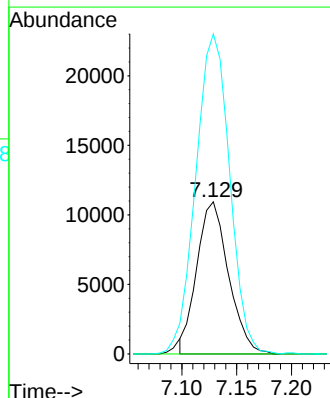
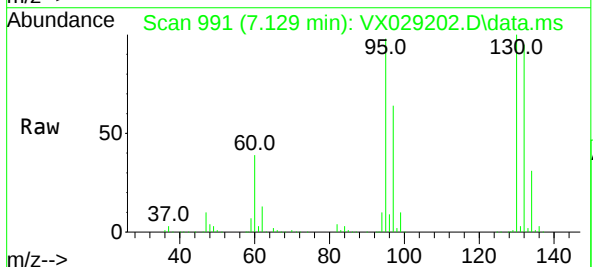
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

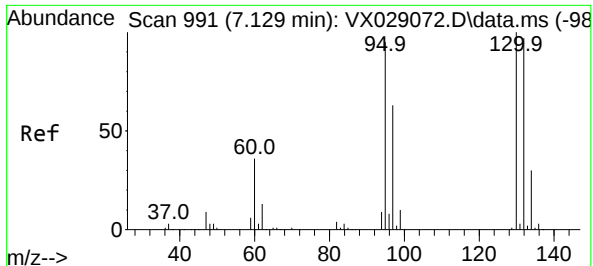
Tgt Ion:117 Resp: 32360  
Ion Ratio Lower Upper  
117 100  
119 5.3 77.3 115.9#  
121 0.0 24.2 36.2#



#39  
Methylcyclohexane  
Concen: 3.646 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.256 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 83 Resp: 21944  
Ion Ratio Lower Upper  
83 100  
55 0.0 54.6 81.8#  
98 208.9 37.4 56.2#

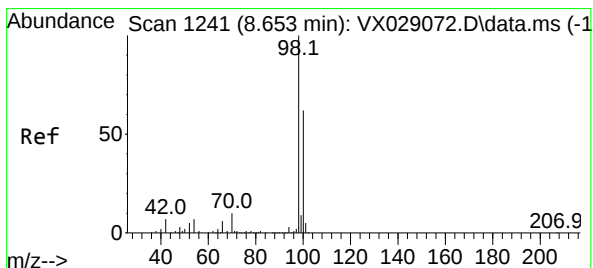
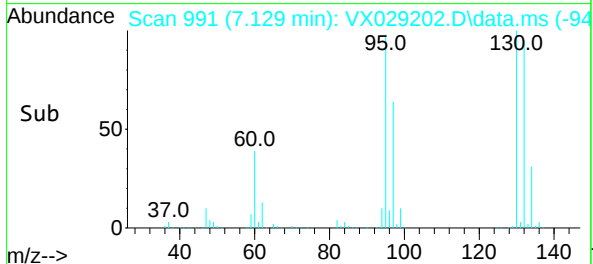
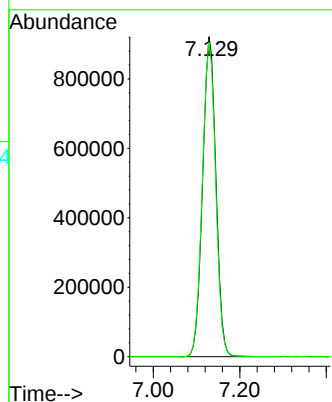
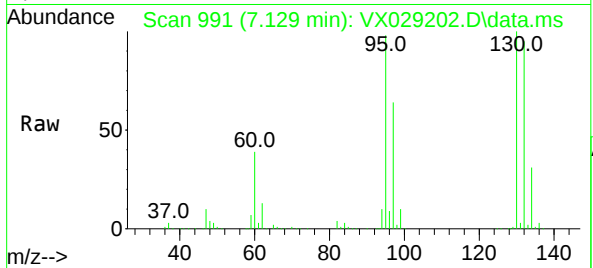




#44  
Trichloroethene  
Concen: 466.122 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

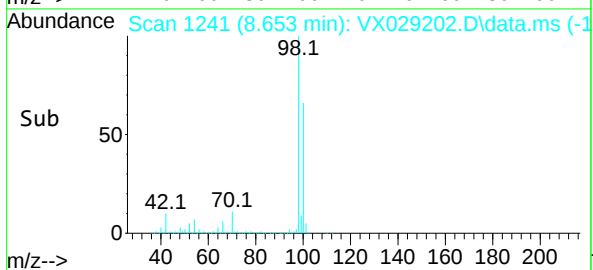
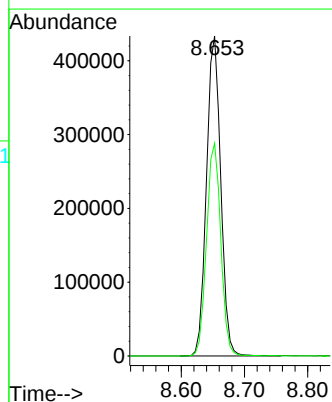
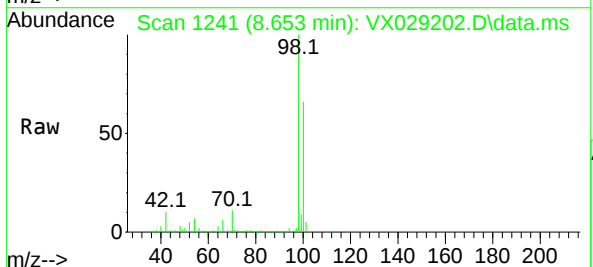
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

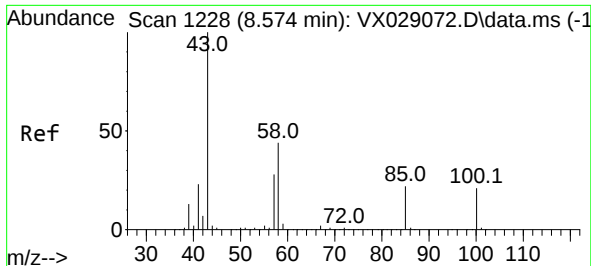
Tgt Ion:130 Resp: 1967608  
Ion Ratio Lower Upper  
130 100  
95 98.2 0.0 188.8



#50  
Toluene-d8  
Concen: 49.211 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 98 Resp: 681031  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.6 78.8

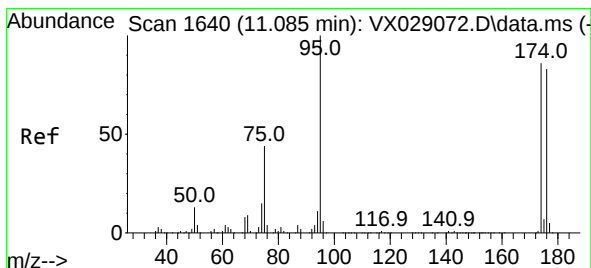
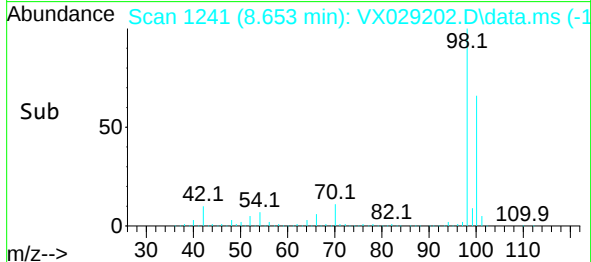
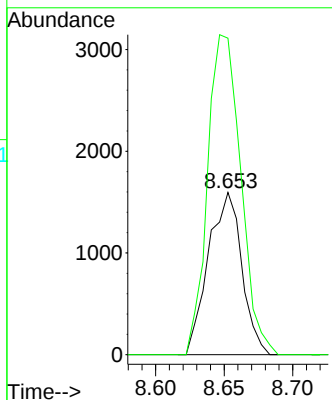
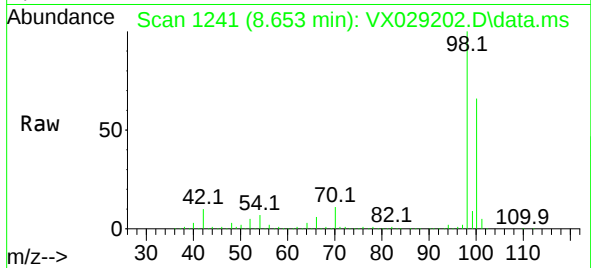




#51  
4-Methyl-2-Pentanone  
Concen: 0.551 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.079 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

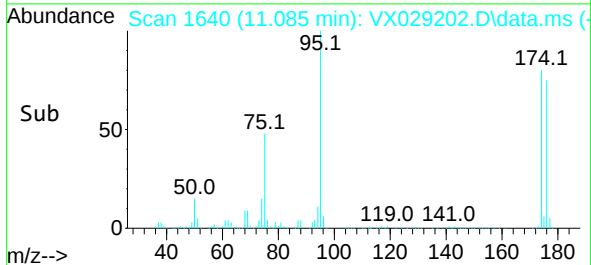
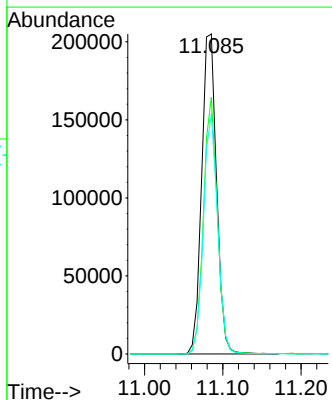
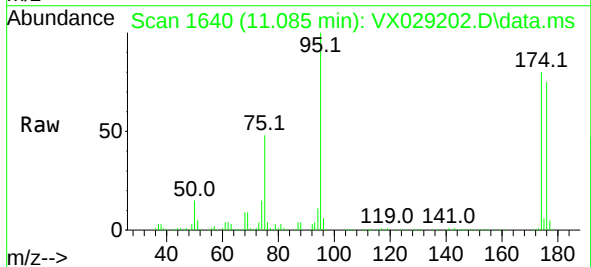
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

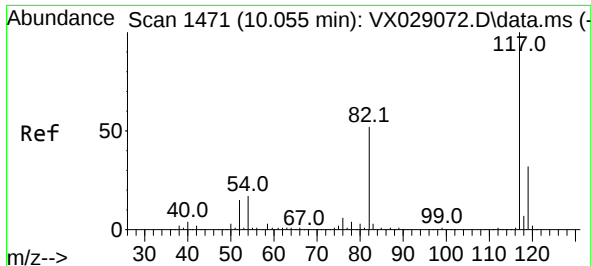
Tgt Ion: 43 Resp: 2703  
Ion Ratio Lower Upper  
43 100  
58 196.4 36.1 54.1#



#62  
4-Bromofluorobenzene  
Concen: 50.657 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 95 Resp: 270987  
Ion Ratio Lower Upper  
95 100  
174 74.5 0.0 163.0  
176 71.3 0.0 155.0

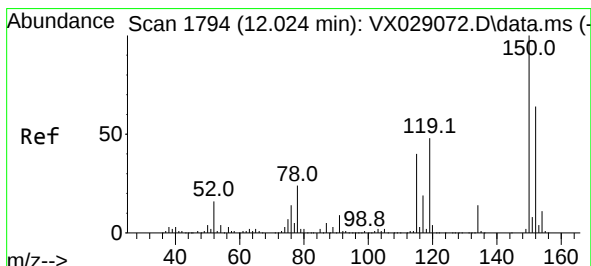
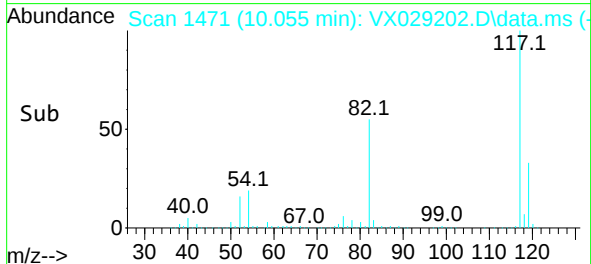
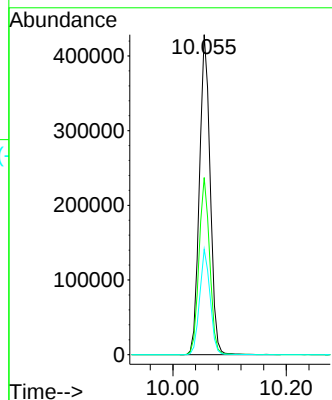
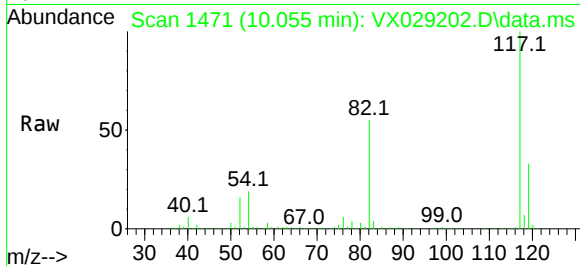




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

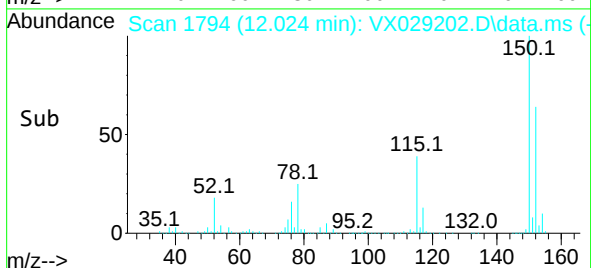
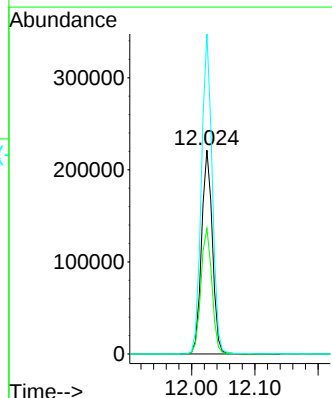
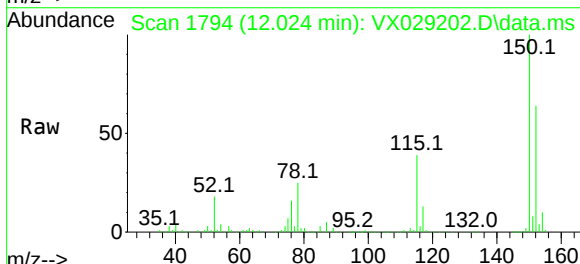
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

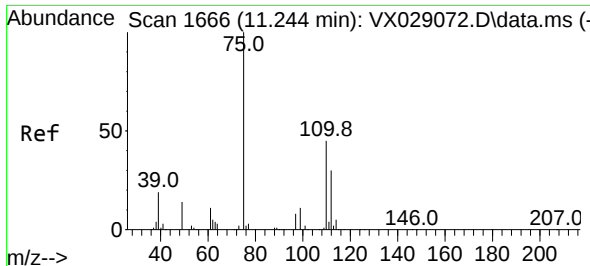
Tgt Ion:117 Resp: 562103  
Ion Ratio Lower Upper  
117 100  
82 55.3 41.8 62.8  
119 32.9 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion:152 Resp: 263678  
Ion Ratio Lower Upper  
152 100  
115 62.6 37.5 112.7  
150 156.1 0.0 338.2

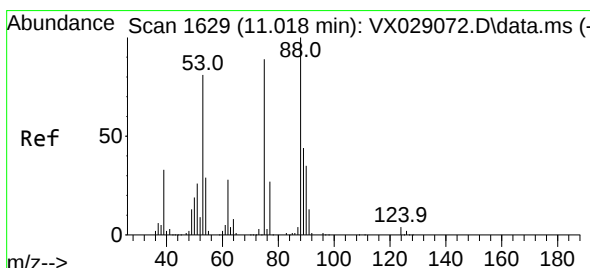
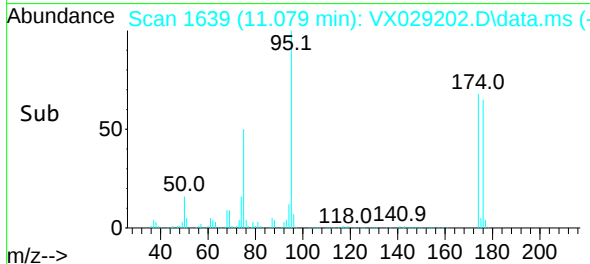
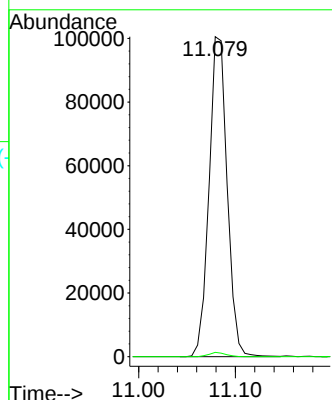
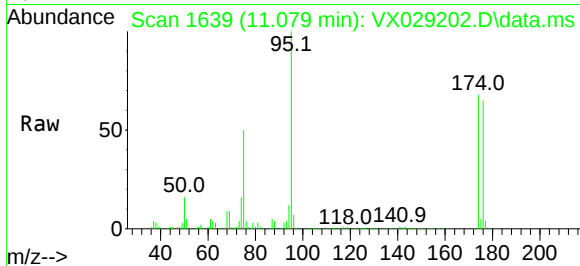




#76  
1,2,3-Trichloropropane  
Concen: 24.532 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20220525

Tgt Ion: 75 Resp: 131131  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.973 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX029202.D  
Acq: 03 Jun 2022 19:55

Tgt Ion: 75 Resp: 131131  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.0 103.4#  
89 0.0 37.0 55.6#

