

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090222\  
 Data File : VX031058.D  
 Acq On : 02 Sep 2022 11:44  
 Operator : JC/MD  
 Sample : N4298-02DL 4X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 03 00:48:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090122W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 02:49:21 2022  
 Response via : Initial Calibration

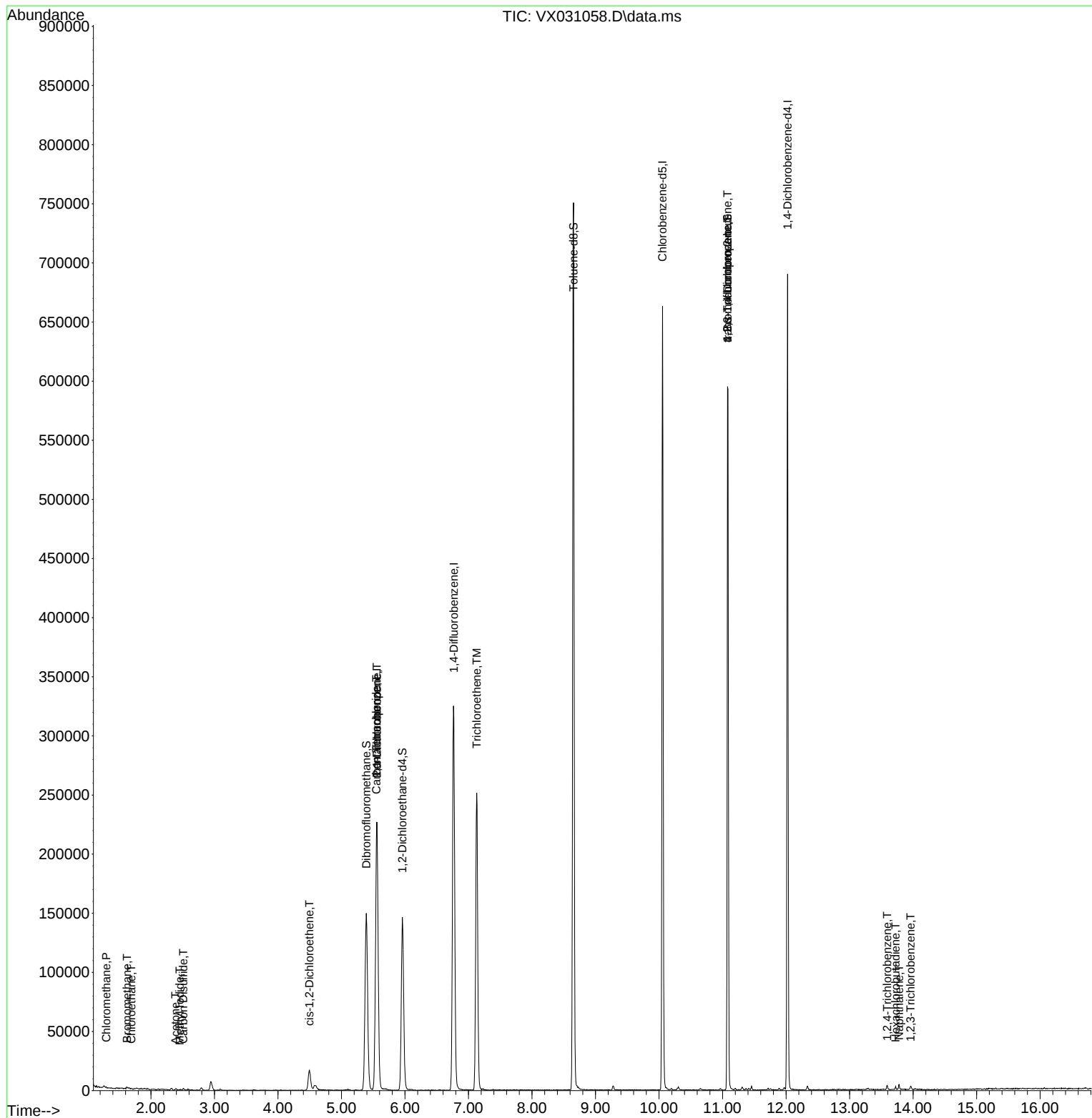
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 232344   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 368371   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 332890   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 150872   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 140339   | 46.943    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 93.880%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 134823   | 50.153    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 100.300% |
| 50) Toluene-d8                | 8.653  | 98    | 491567   | 49.685    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 99.360%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 168884   | 48.329    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 96.660%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.294  | 50    | 295      | 0.828     | ug/l   | 92       |
| 5) Bromomethane               | 1.624  | 94    | 546      | 0.489     | ug/l # | 58       |
| 6) Chloroethane               | 1.691  | 64    | 137      | 1.812     | ug/l   | 99       |
| 10) Methyl Iodide             | 2.453  | 142   | 552      | 3.101     | ug/l # | 63       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 4420     | Below Cal | #      | 74       |
| 16) Acetone                   | 2.386  | 43    | 1427     | 1.236     | ug/l # | 86       |
| 17) Carbon Disulfide          | 2.508  | 76    | 1749     | 0.250     | ug/l # | 74       |
| 20) Methylene Chloride        | 2.794  | 84    | 1165     | Below Cal | #      | 65       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 11896    | 3.534     | ug/l   | 84       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 14783    | 3.926     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 22377    | 5.725     | ug/l # | 19       |
| 44) Trichloroethene           | 7.129  | 130   | 104885   | 30.652    | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 75743    | 21.237    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 75743    | 66.744    | ug/l # | 12       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 1213     | 0.311     | ug/l   | 89       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 391      | 0.229     | ug/l   | 86       |
| 95) Naphthalene               | 13.780 | 128   | 2936     | 0.215     | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 949      | 0.232     | ug/l   | 94       |
| -----                         |        |       |          |           |        |          |

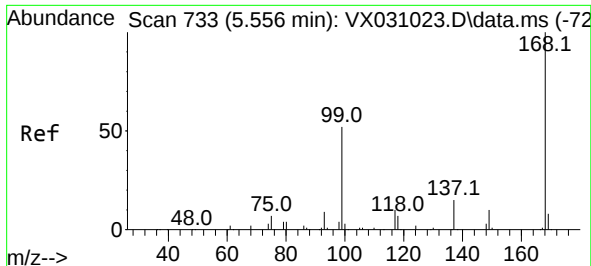
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

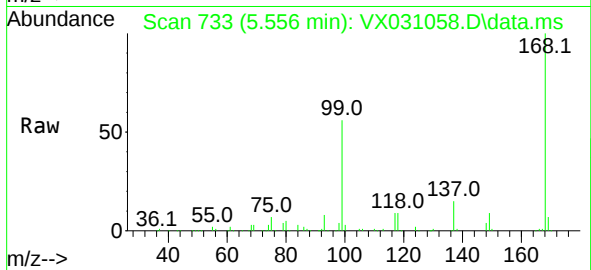
Quant Time: Sep 03 00:48:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090122W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 02 02:49:21 2022  
Response via : Initial Calibration



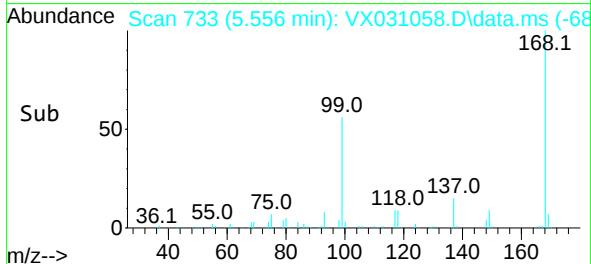
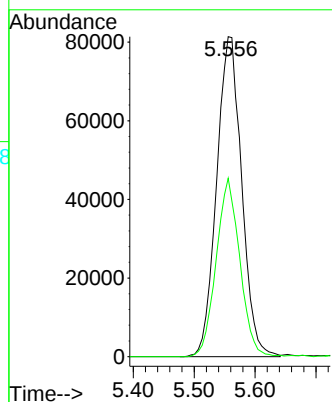


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Instrument :  
MSVOA\_X  
ClientSampleId :

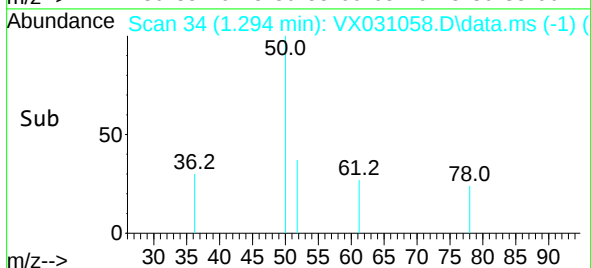
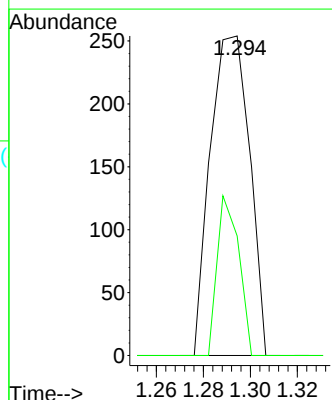
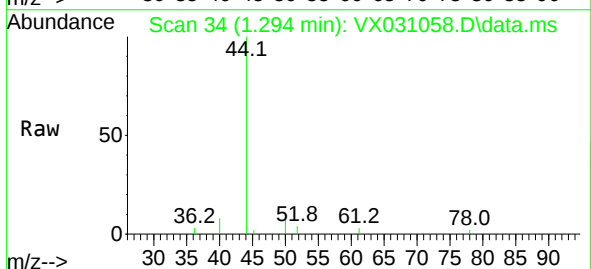


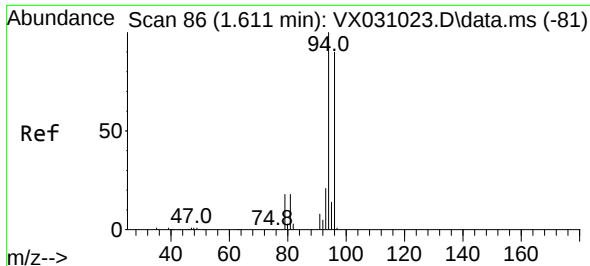
Tgt Ion:168 Resp: 232344  
Ion Ratio Lower Upper  
168 100  
99 55.8 44.0 66.0



#3  
Chloromethane  
Concen: 0.828 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Tgt Ion: 50 Resp: 295  
Ion Ratio Lower Upper  
50 100  
52 37.4 26.3 39.5

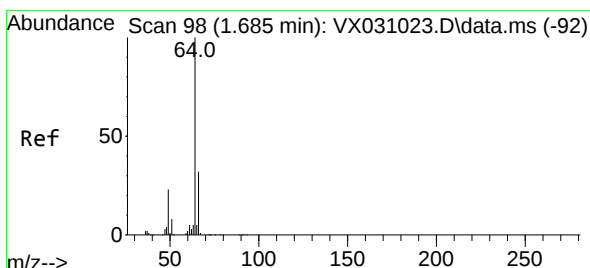
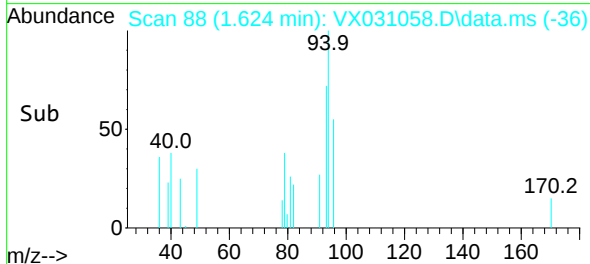
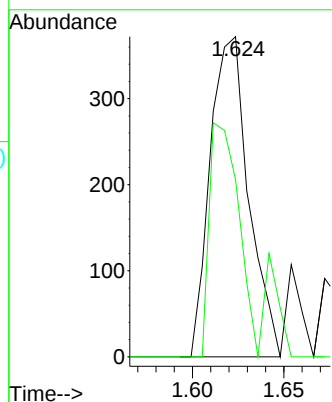
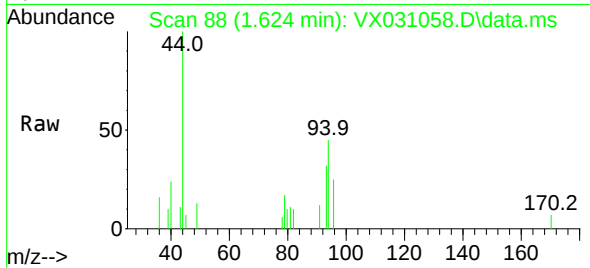




#5  
Bromomethane  
Concen: 0.489 ug/l  
RT: 1.624 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

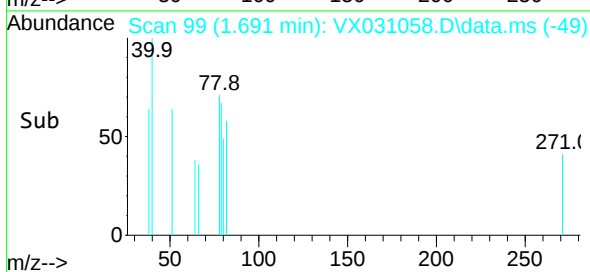
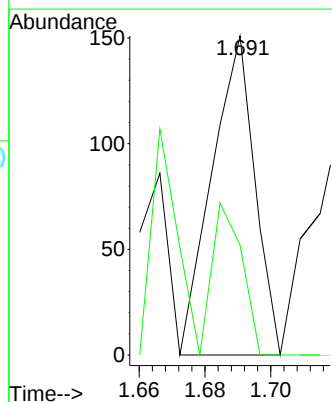
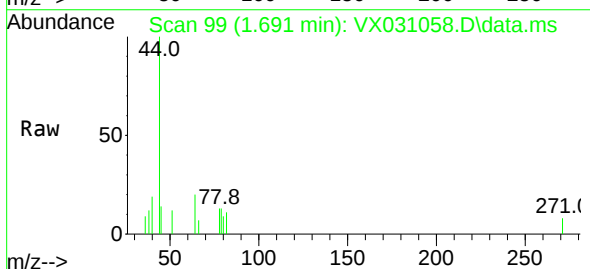
Instrument :  
MSVOA\_X  
ClientSampleId :

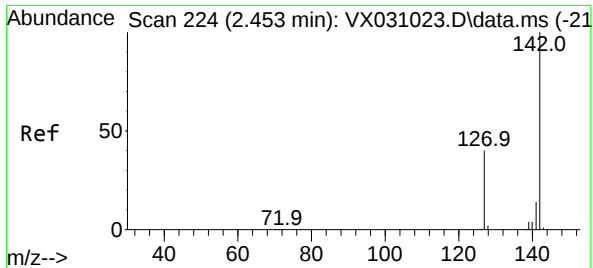
Tgt Ion: 94 Resp: 546  
Ion Ratio Lower Upper  
94 100  
96 55.4 76.9 115.3#



#6  
Chloroethane  
Concen: 1.812 ug/l  
RT: 1.691 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

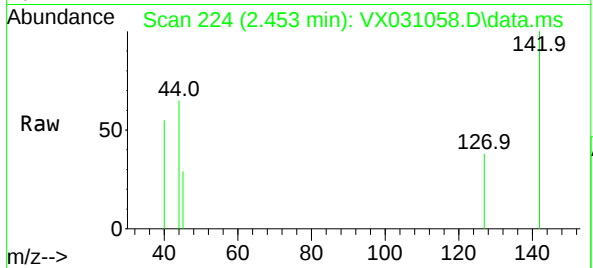
Tgt Ion: 64 Resp: 137  
Ion Ratio Lower Upper  
64 100  
66 34.4 27.2 40.8



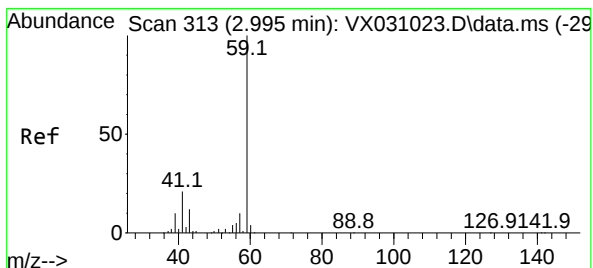
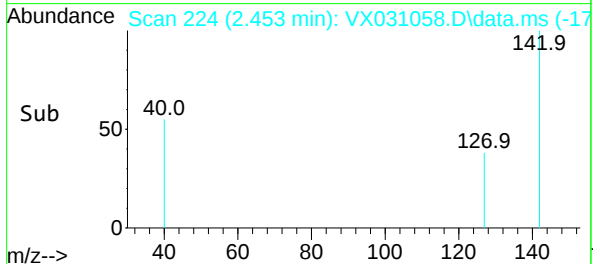
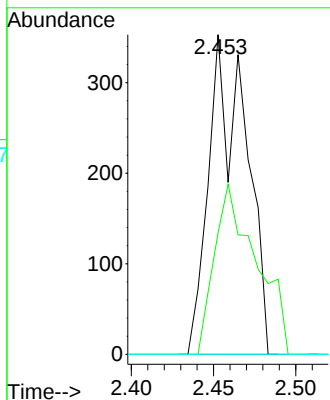


#10  
Methyl Iodide  
Concen: 3.101 ug/l  
RT: 2.453 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Instrument :  
MSVOA\_X  
ClientSampleId :

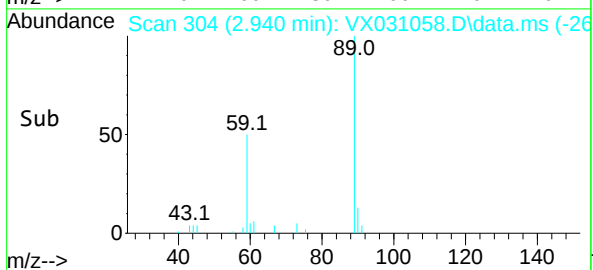
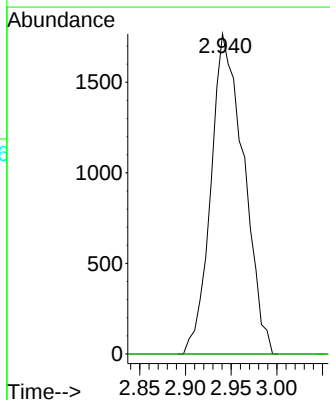
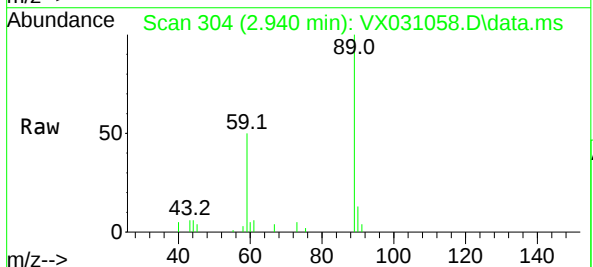


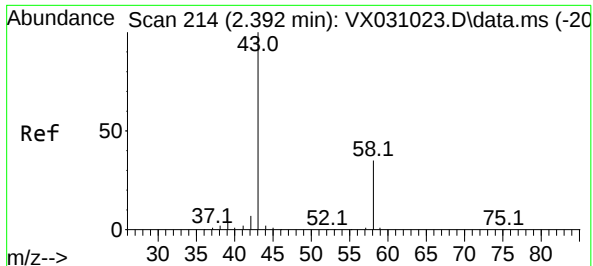
Tgt Ion:142 Resp: 552  
Ion Ratio Lower Upper  
142 100  
127 60.1 30.2 45.2#  
141 0.0 11.3 16.9#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.940 min Scan# 304  
Delta R.T. -0.049 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

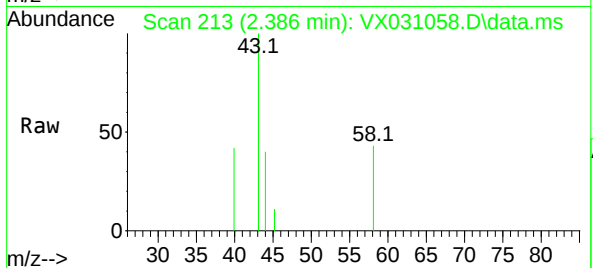
Tgt Ion: 59 Resp: 4420  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



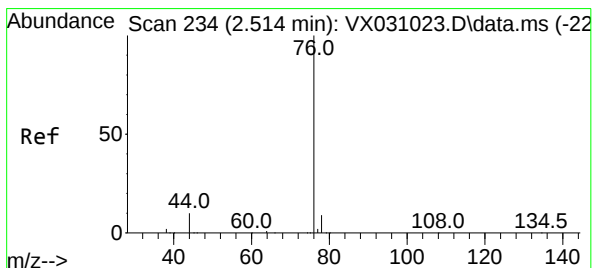
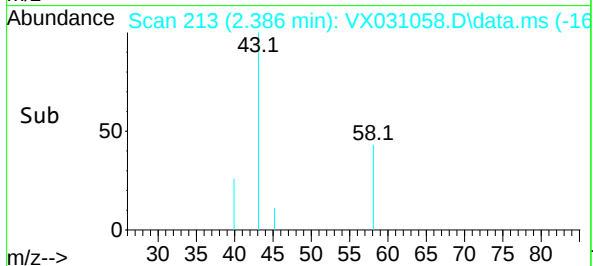
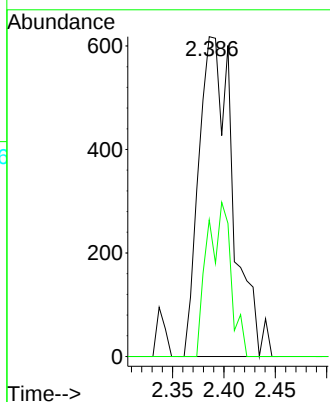


#16  
Acetone  
Concen: 1.236 ug/l  
RT: 2.386 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Instrument :  
MSVOA\_X  
ClientSampleId :

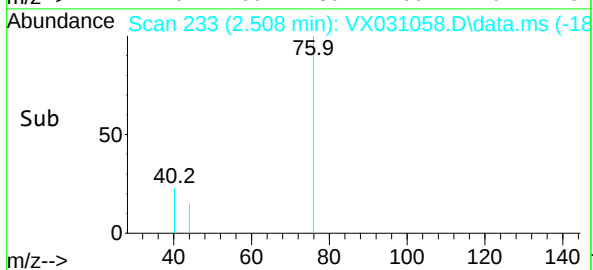
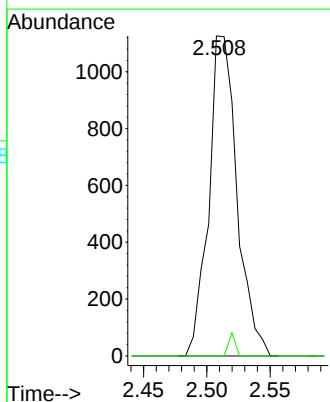
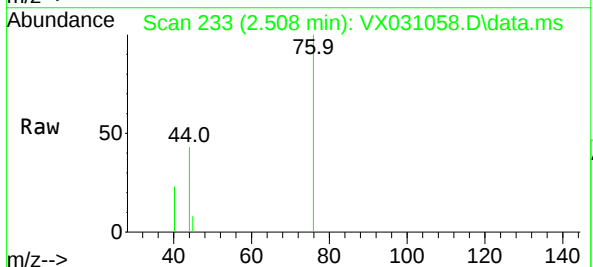


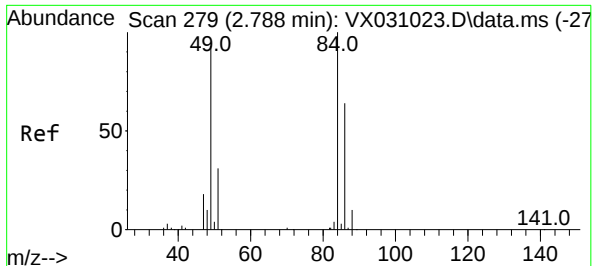
Tgt Ion: 43 Resp: 1427  
Ion Ratio Lower Upper  
43 100  
58 42.7 27.7 41.5#



#17  
Carbon Disulfide  
Concen: 0.250 ug/l  
RT: 2.508 min Scan# 233  
Delta R.T. -0.006 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

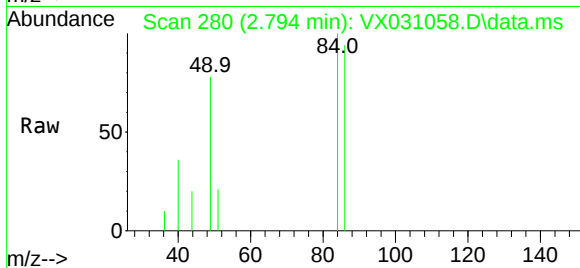
Tgt Ion: 76 Resp: 1749  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.8 11.6#



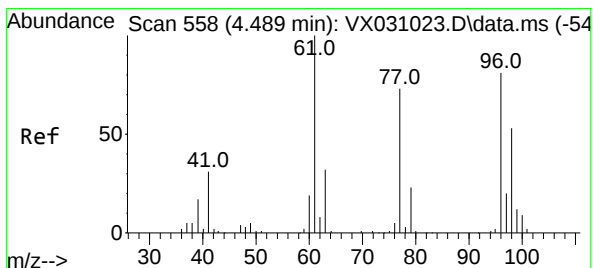
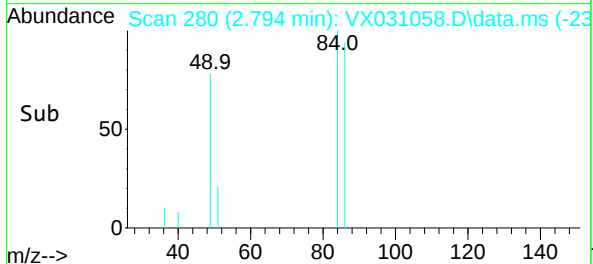
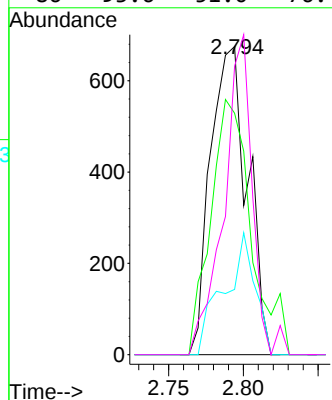


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Instrument :  
MSVOA\_X  
ClientSampleId :

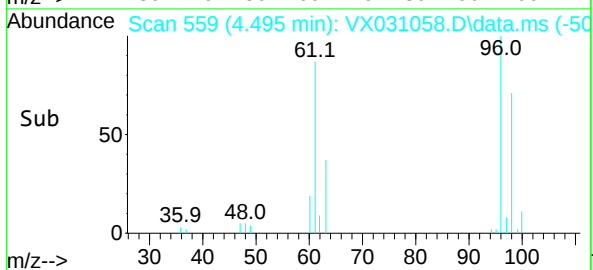
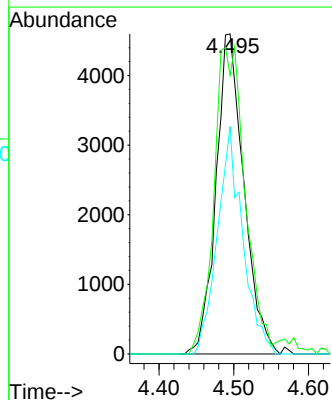
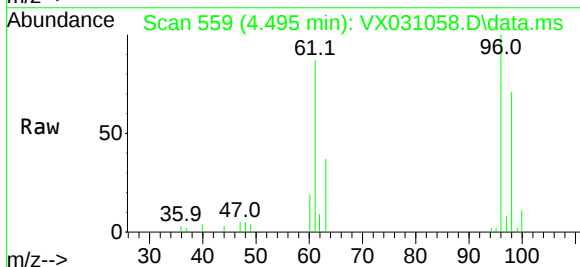


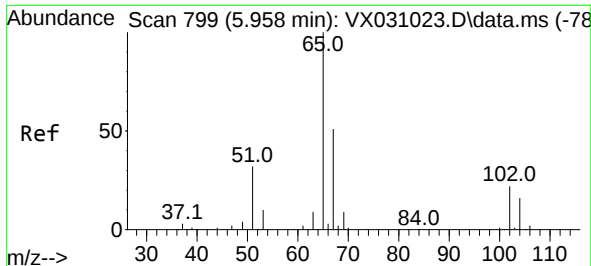
Tgt Ion: 84 Resp: 1165  
Ion Ratio Lower Upper  
84 100  
49 78.4 93.8 140.6#  
51 21.2 29.4 44.0#  
86 93.6 51.0 76.4#



#27  
cis-1,2-Dichloroethene  
Concen: 3.534 ug/l  
RT: 4.495 min Scan# 559  
Delta R.T. 0.006 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Tgt Ion: 96 Resp: 11896  
Ion Ratio Lower Upper  
96 100  
61 107.8 0.0 270.0  
98 64.6 0.0 127.8





#33

1,2-Dichloroethane-d4

Concen: 46.943 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX031058.D

Acq: 02 Sep 2022 11:44

Instrument :

MSVOA\_X

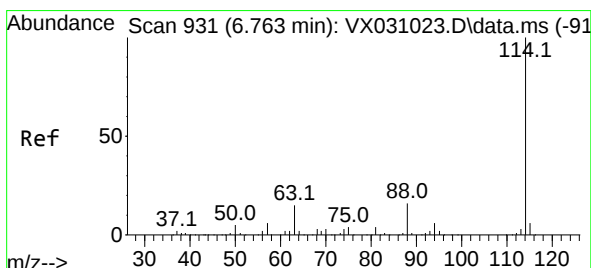
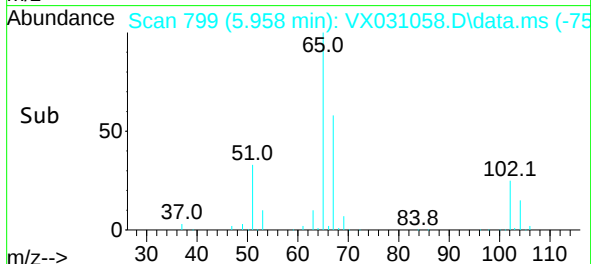
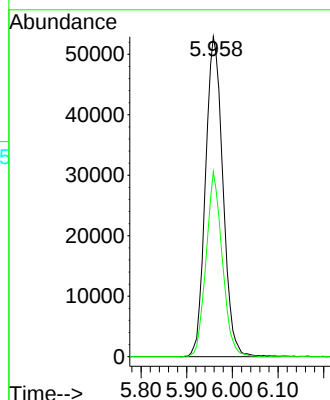
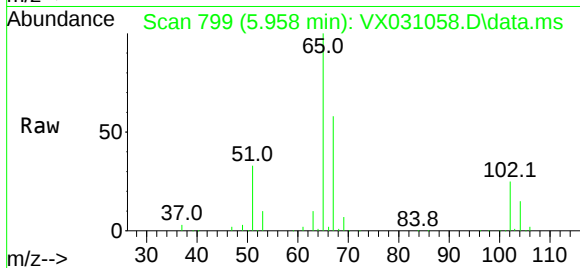
ClientSampleId :

Tgt Ion: 65 Resp: 140339

Ion Ratio Lower Upper

65 100

67 53.7 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX031058.D

Acq: 02 Sep 2022 11:44

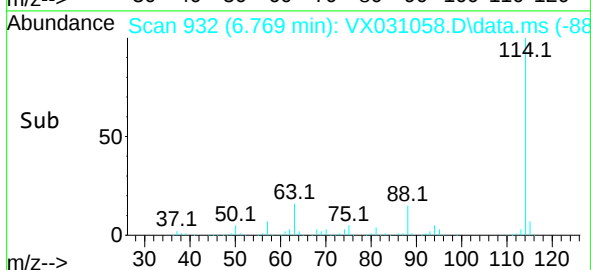
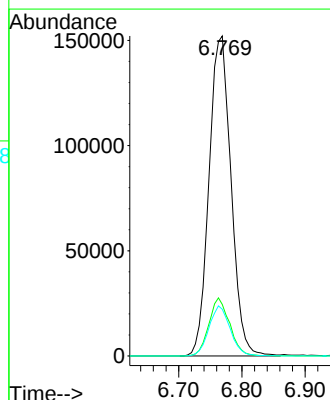
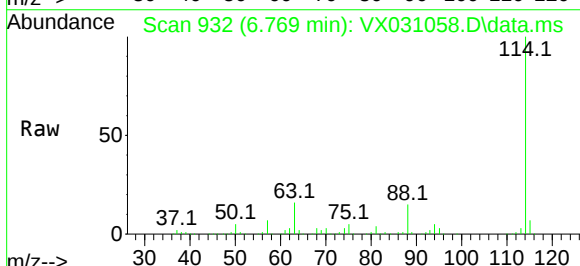
Tgt Ion: 114 Resp: 368371

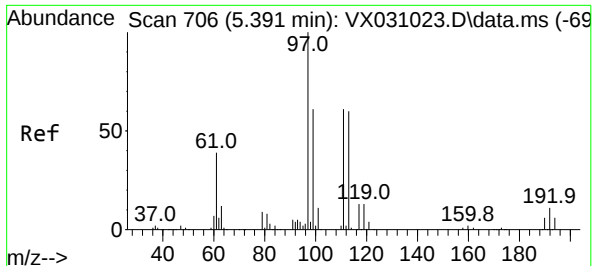
Ion Ratio Lower Upper

114 100

63 16.1 0.0 38.4

88 14.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.153 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

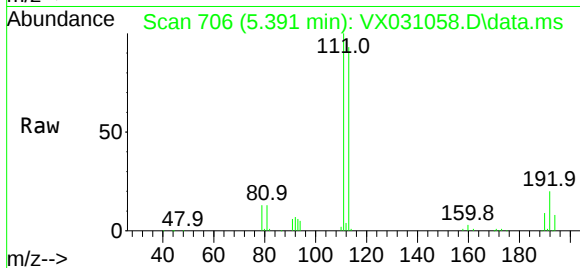
Lab File: VX031058.D

Acq: 02 Sep 2022 11:44

Instrument :

MSVOA\_X

ClientSampleId :



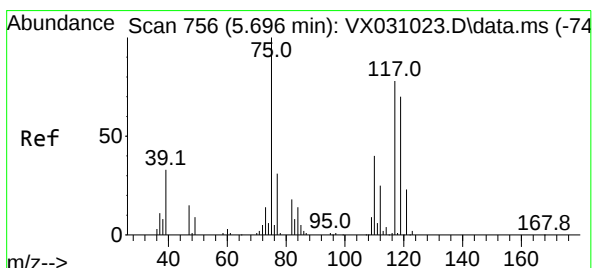
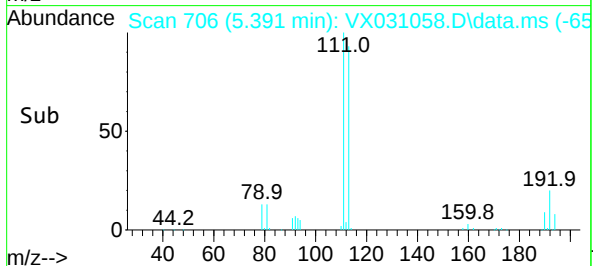
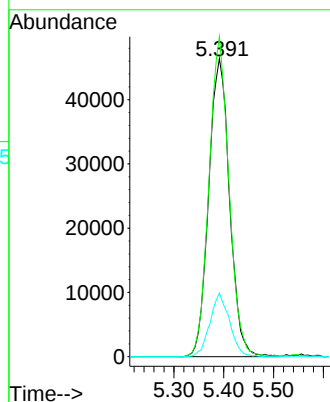
Tgt Ion:113 Resp: 134823

Ion Ratio Lower Upper

113 100

111 102.8 83.2 124.8

192 20.1 14.8 22.2



#36

1,1-Dichloropropene

Concen: 3.926 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX031058.D

Acq: 02 Sep 2022 11:44

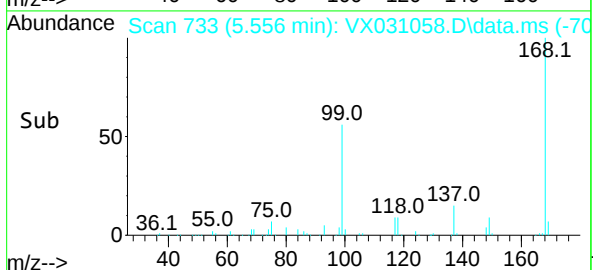
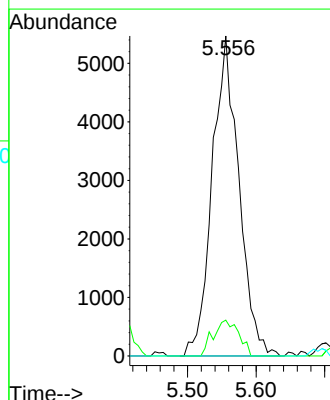
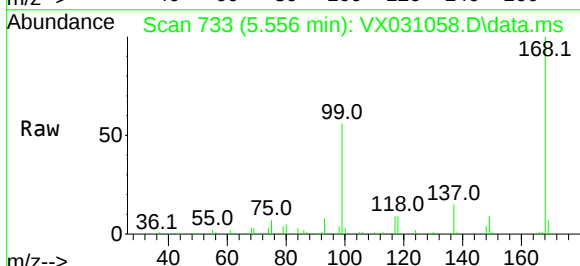
Tgt Ion: 75 Resp: 14783

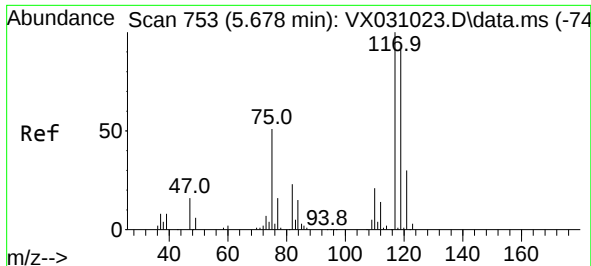
Ion Ratio Lower Upper

75 100

110 10.7 19.3 57.9#

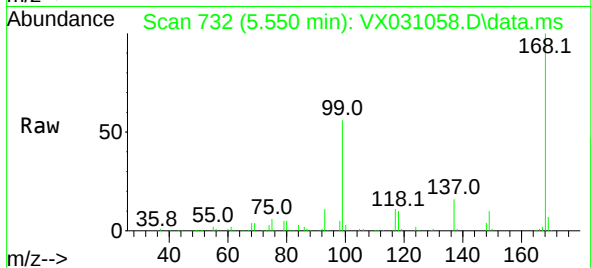
77 0.0 24.4 36.6#



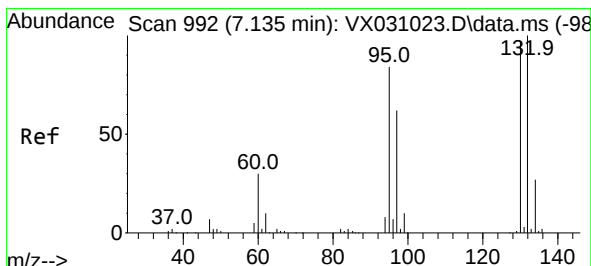
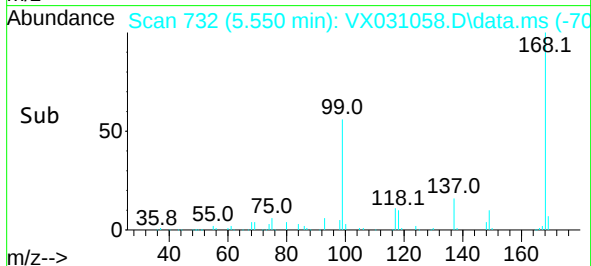
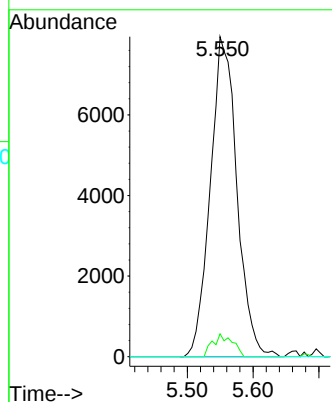


#38  
Carbon Tetrachloride  
Concen: 5.725 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Instrument :  
MSVOA\_X  
ClientSampleId :

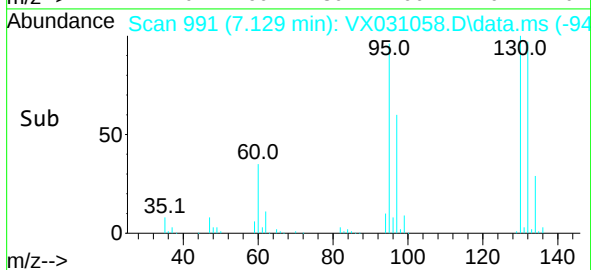
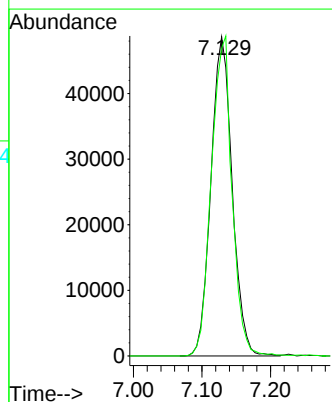
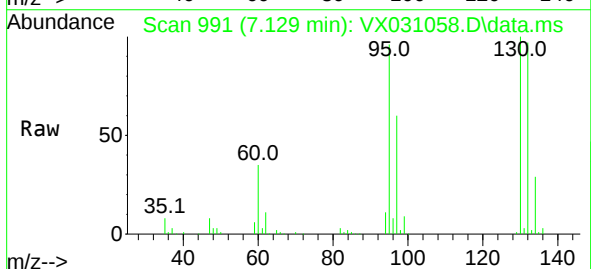


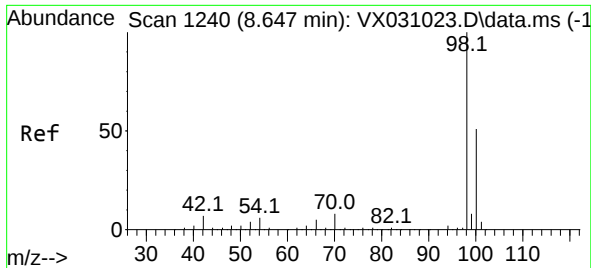
Tgt Ion:117 Resp: 22377  
Ion Ratio Lower Upper  
117 100  
119 7.1 74.1 111.1#  
121 0.0 25.8 38.8#



#44  
Trichloroethene  
Concen: 30.652 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Tgt Ion:130 Resp: 104885  
Ion Ratio Lower Upper  
130 100  
95 96.4 0.0 194.8

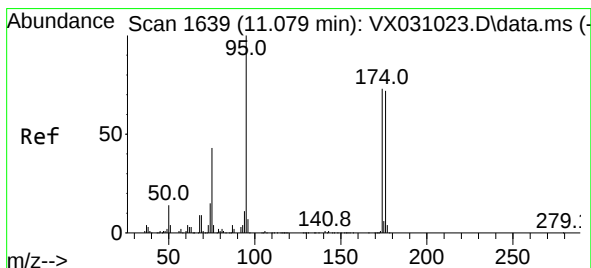
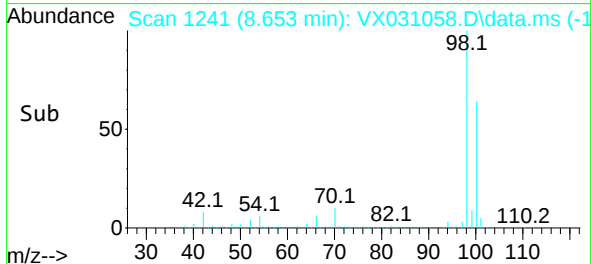
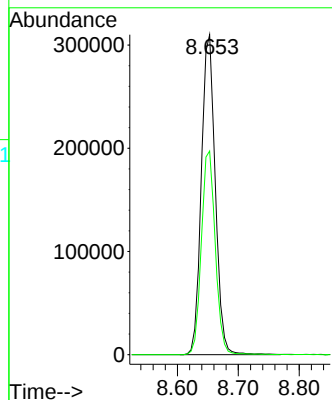
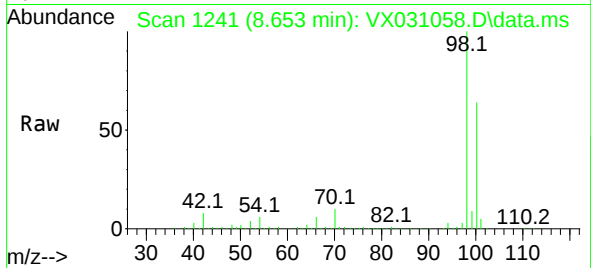




#50  
Toluene-d8  
Concen: 49.685 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

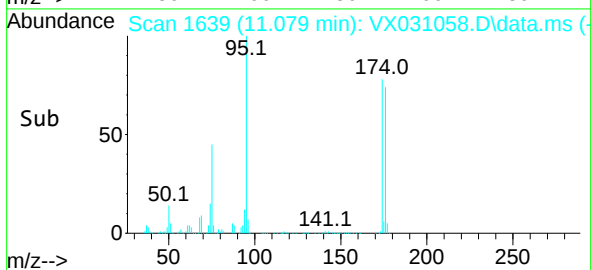
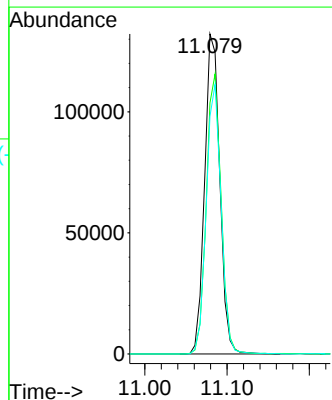
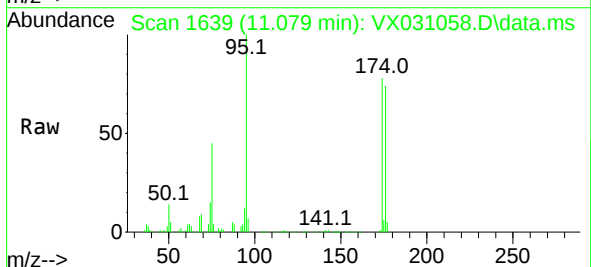
Instrument :  
MSVOA\_X  
ClientSampleId :

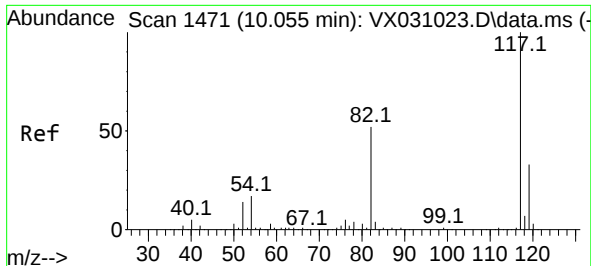
Tgt Ion: 98 Resp: 491567  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.3 78.5



#62  
4-Bromofluorobenzene  
Concen: 48.329 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

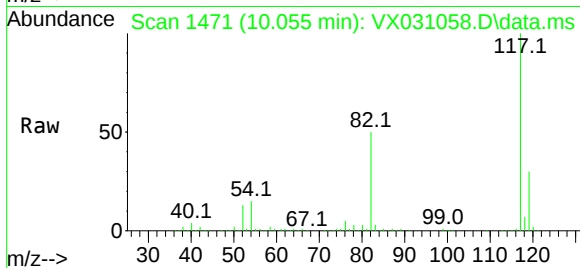
Tgt Ion: 95 Resp: 168884  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 149.0  
176 83.0 0.0 146.0



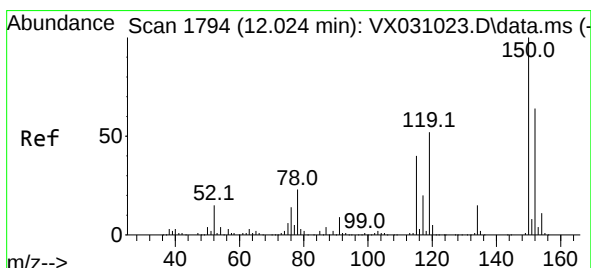
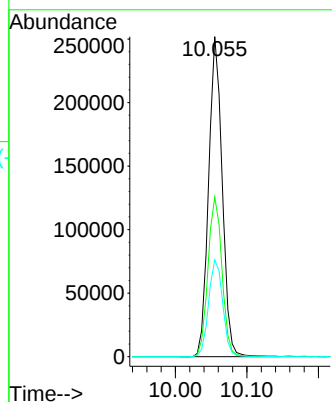
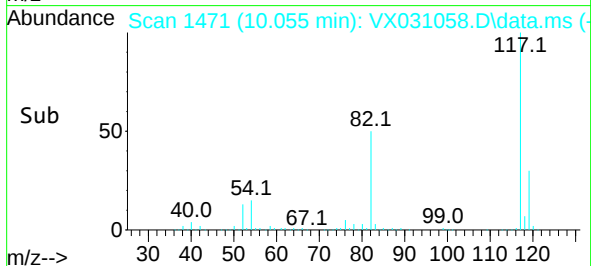


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

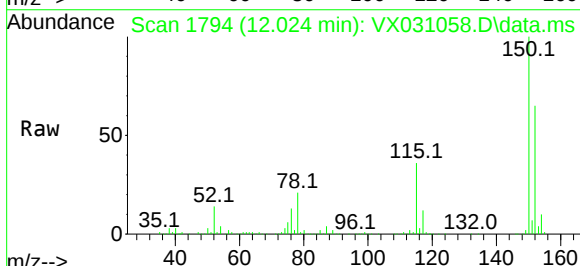
Instrument :  
MSVOA\_X  
ClientSampleId :



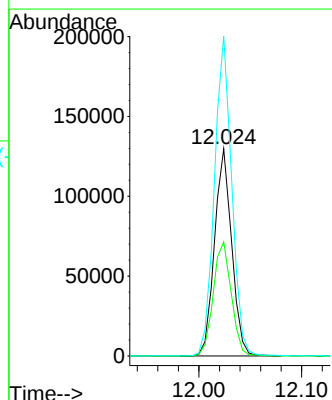
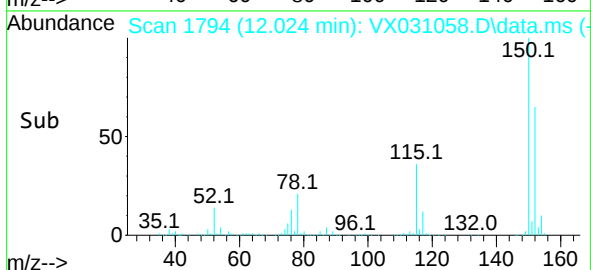
Tgt Ion:117 Resp: 332890  
Ion Ratio Lower Upper  
117 100  
82 49.8 42.7 64.1  
119 30.3 25.4 38.2

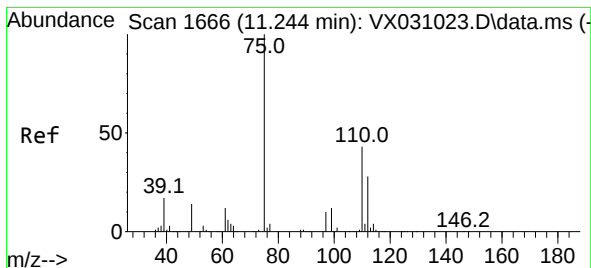


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44



Tgt Ion:152 Resp: 150872  
Ion Ratio Lower Upper  
152 100  
115 57.7 40.5 121.5  
150 154.9 0.0 347.0





#76

1,2,3-Trichloropropane

Concen: 21.237 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.165 min

Lab File: VX031058.D

Acq: 02 Sep 2022 11:44

Instrument :

MSVOA\_X

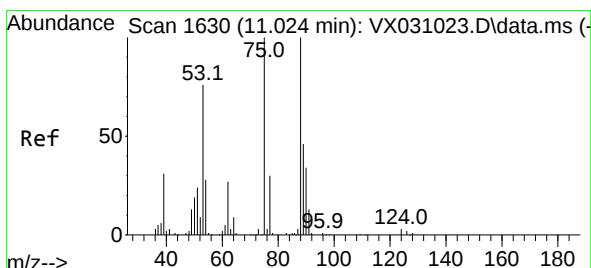
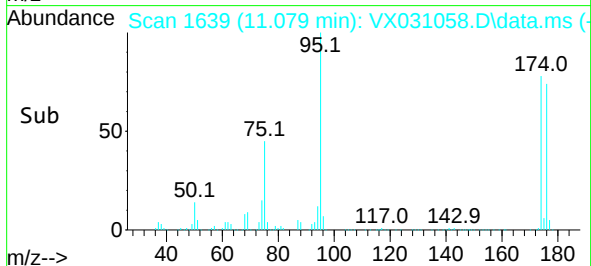
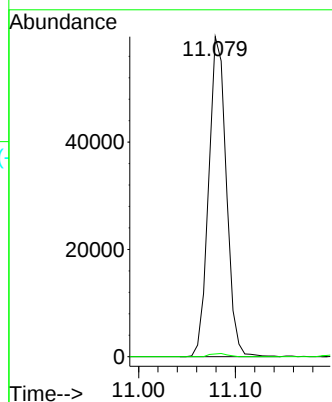
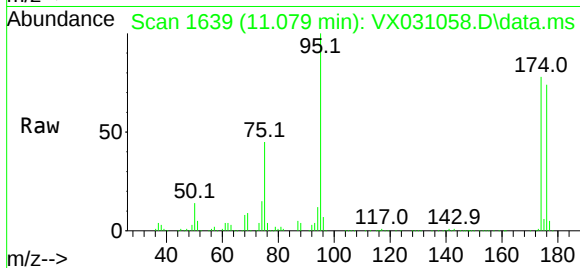
ClientSampleId :

Tgt Ion: 75 Resp: 75743

Ion Ratio Lower Upper

75 100

77 1.0 19.8 59.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.744 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.055 min

Lab File: VX031058.D

Acq: 02 Sep 2022 11:44

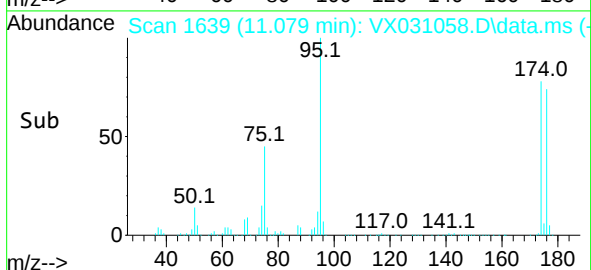
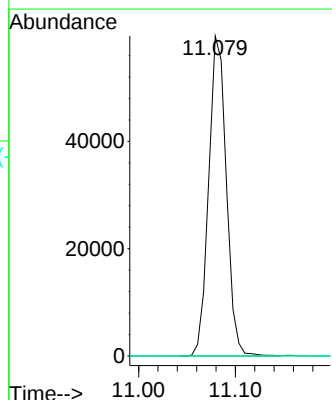
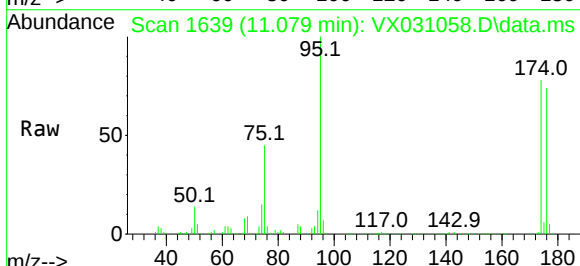
Tgt Ion: 75 Resp: 75743

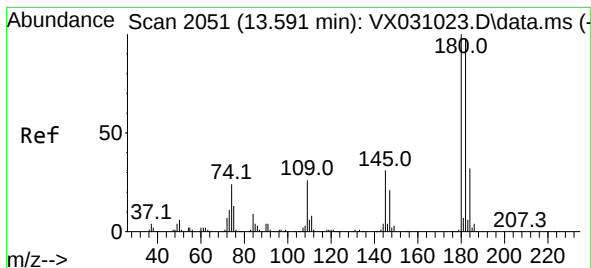
Ion Ratio Lower Upper

75 100

53 0.0 74.2 111.4#

89 0.0 34.8 52.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.311 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. -0.000 min

Lab File: VX031058.D

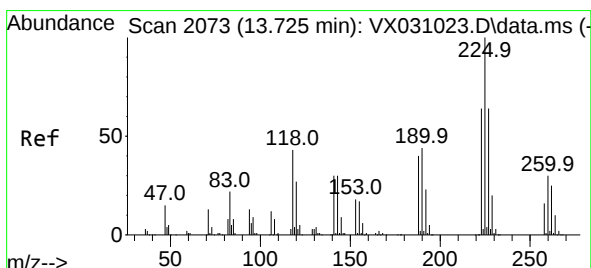
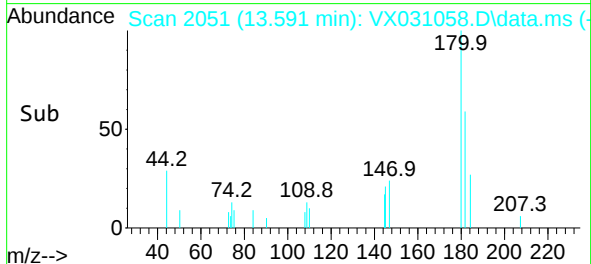
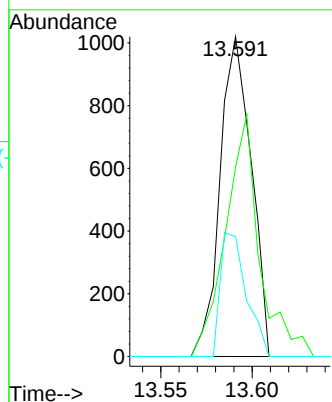
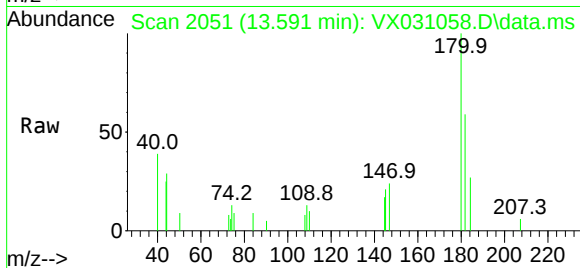
Acq: 02 Sep 2022 11:44

Instrument :

MSVOA\_X

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 1213        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 81.9  | 48.2 144.6  |
| 145         | 32.2  | 15.9 47.6   |



#94

Hexachlorobutadiene

Concen: 0.229 ug/l

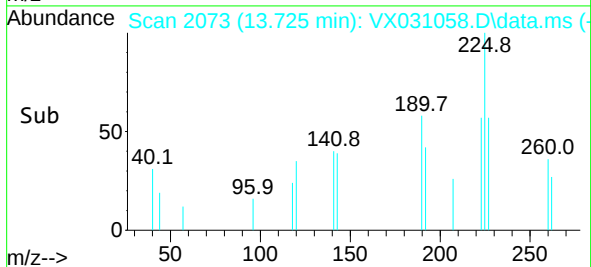
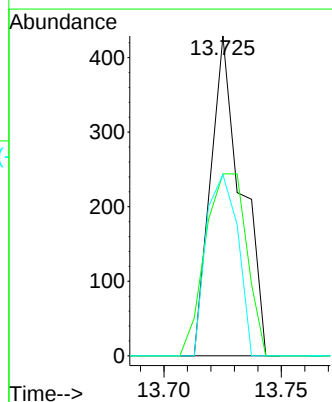
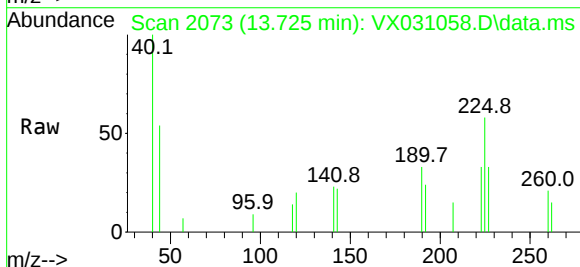
RT: 13.725 min Scan# 2073

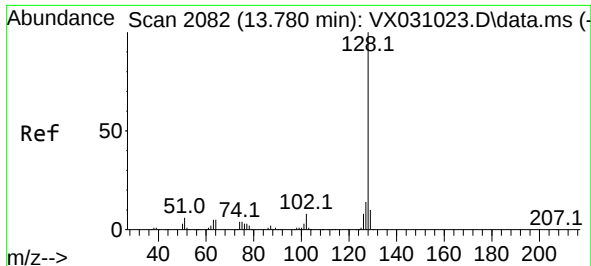
Delta R.T. 0.000 min

Lab File: VX031058.D

Acq: 02 Sep 2022 11:44

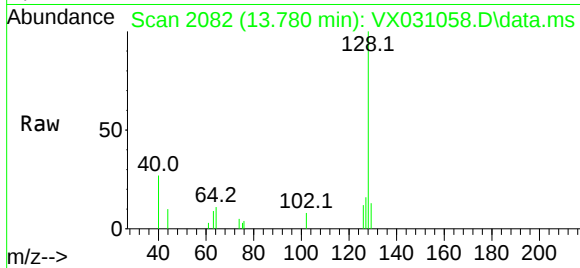
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:225 | Resp: | 391         |
| Ion         | Ratio | Lower Upper |
| 225         | 100   |             |
| 223         | 76.5  | 30.6 91.6   |
| 227         | 57.8  | 31.9 95.9   |



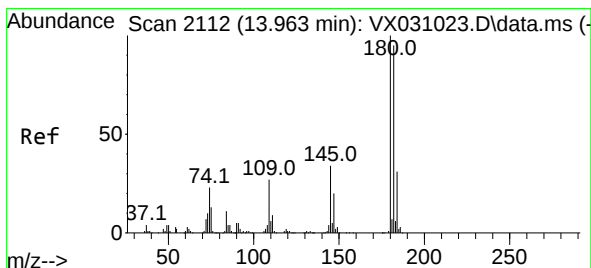
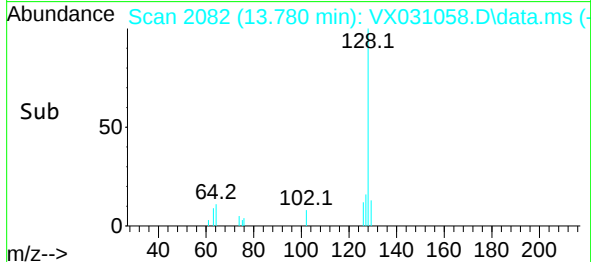
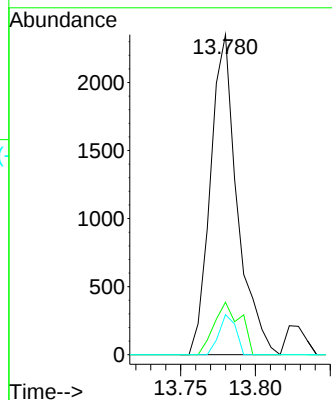


#95  
Naphthalene  
Concen: 0.215 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion:128 Resp: 2936  
Ion Ratio Lower Upper  
128 100  
127 16.0 10.2 15.2#  
129 7.8 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 0.232 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. -0.000 min  
Lab File: VX031058.D  
Acq: 02 Sep 2022 11:44

Tgt Ion:180 Resp: 949  
Ion Ratio Lower Upper  
180 100  
182 101.1 47.0 141.0  
145 34.4 17.0 50.9

