

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090322\  
 Data File : VY010327.D  
 Acq On : 03 Sep 2022 17:55  
 Operator : KP/MD  
 Sample : N4419-02  
 Misc : 4.69g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 KTS2-TR-03-3-4

Quant Time: Sep 05 04:22:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 16:41:46 2022  
 Response via : Initial Calibration

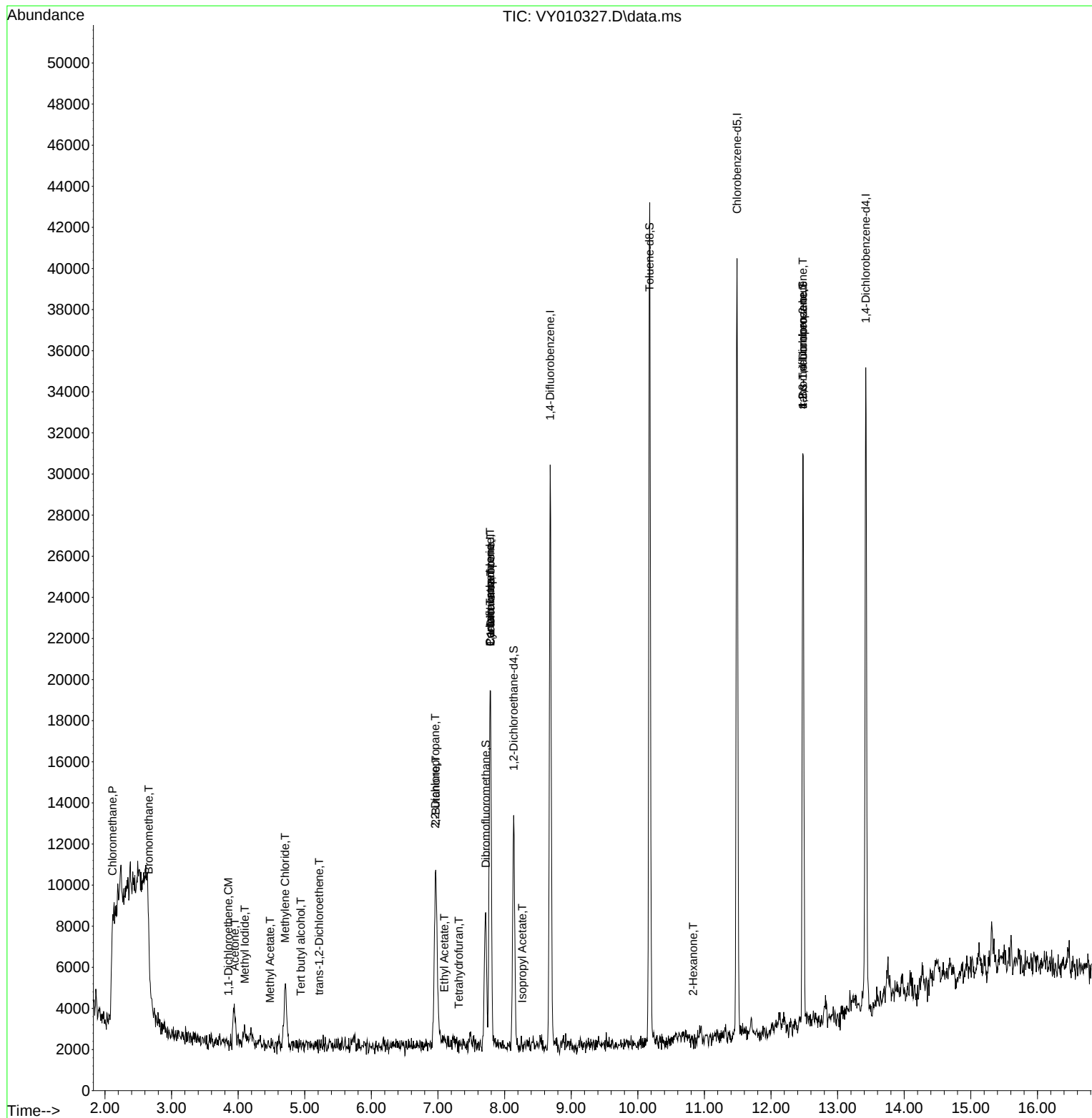
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 14453               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 24720               | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490         | 117  | 21857               | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 8109                | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 8333                | 56.228 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 112.460% |        |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 4566                | 27.746 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 55.500%  |        |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 27328               | 49.600 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 99.200%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 9179                | 40.386 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 80.780%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 3) Chloromethane              | 2.113          | 50   | 599                 | 3.802  | ug/l   | 97       |
| 5) Bromomethane               | 2.656          | 94   | 614                 | 1.499  | ug/l   | 92       |
| 10) Methyl Iodide             | 4.101          | 142  | 1127                | 6.305  | ug/l # | 74       |
| 11) Tert butyl alcohol        | 4.942          | 59   | 65                  | 3.666  | ug/l # | 77       |
| 12) 1,1-Dichloroethene        | 3.851          | 96   | 274                 | 1.904  | ug/l # | 1        |
| 16) Acetone                   | 3.948          | 43   | 3340                | 90.154 | ug/l # | 80       |
| 18) Methyl Acetate            | 4.479          | 43   | 183                 | 1.592  | ug/l # | 56       |
| 20) Methylene Chloride        | 4.704          | 84   | 2307                | 12.904 | ug/l # | 70       |
| 21) trans-1,2-Dichloroethene  | 5.216          | 96   | 179                 | 1.098  | ug/l # | 1        |
| 25) 2-Butanone                | 6.966          | 43   | 769                 | 12.648 | ug/l # | 54       |
| 26) 2,2-Dichloropropane       | 6.960          | 77   | 361                 | 1.337  | ug/l # | 55       |
| 29) Tetrahydrofuran           | 7.313          | 42   | 48                  | 1.232  | ug/l # | 38       |
| 31) Cyclohexane               | 7.789          | 56   | 303                 | 1.048  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 1219                | 5.049  | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.094          | 43   | 422                 | 3.048  | ug/l # | 72       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 1299                | 5.220  | ug/l # | 11       |
| 43) Isopropyl Acetate         | 8.265          | 43   | 302                 | 1.144  | ug/l # | 56       |
| 59) 2-Hexanone                | 10.831         | 43   | 131                 | 1.388  | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 4564                | 47.295 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 4564                | 98.663 | ug/l # | 7        |
| -----                         |                |      |                     |        |        |          |

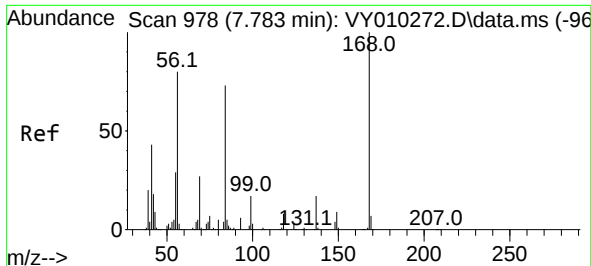
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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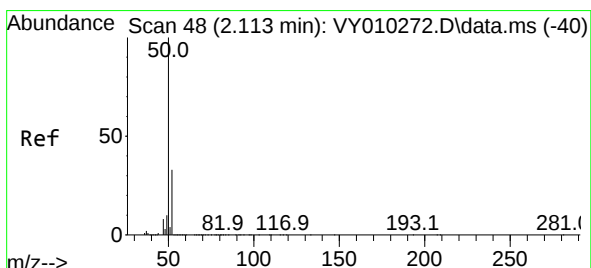
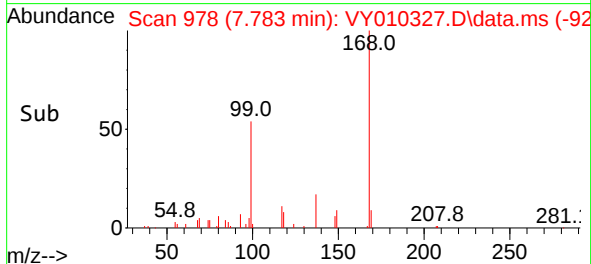
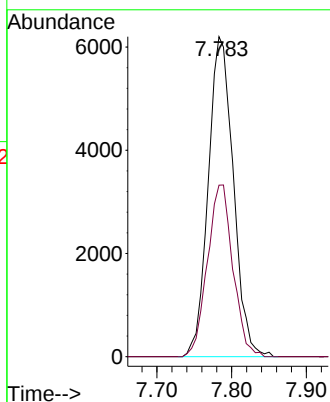
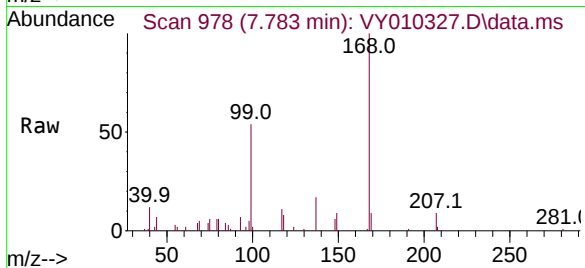




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

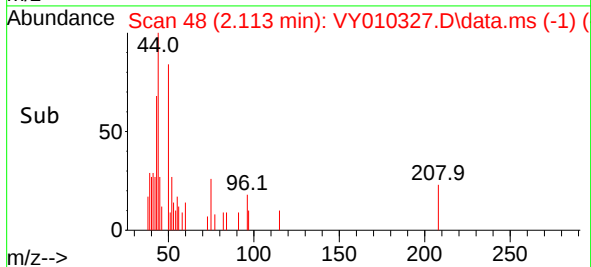
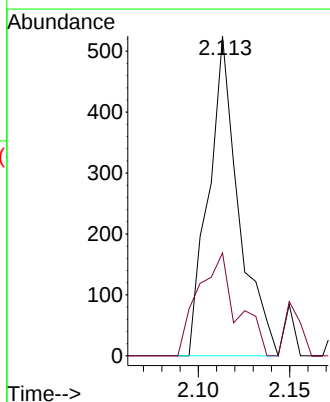
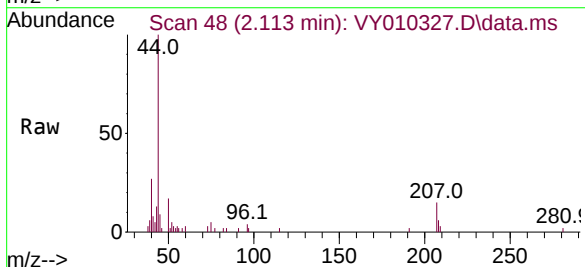
Instrument :  
MSVOA\_Y  
ClientSampleId :  
KTS2-TR-03-3-4

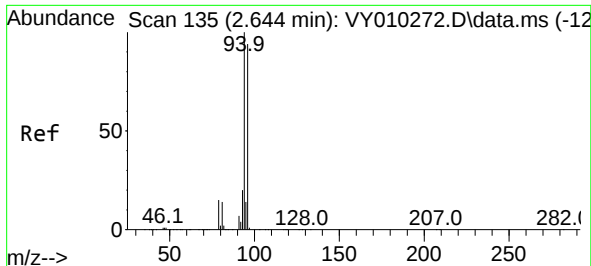
Tgt Ion:168 Resp: 14453  
Ion Ratio Lower Upper  
168 100  
99 53.6 46.9 70.3



#3  
Chloromethane  
Concen: 3.802 ug/l  
RT: 2.113 min Scan# 48  
Delta R.T. 0.000 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 50 Resp: 599  
Ion Ratio Lower Upper  
50 100  
52 32.2 24.6 37.0

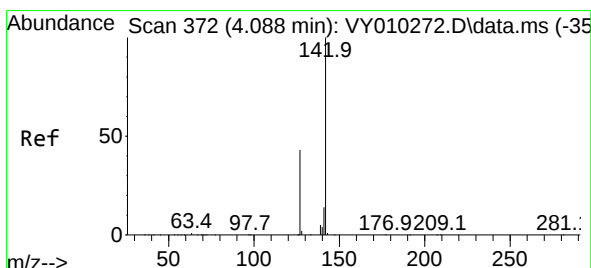
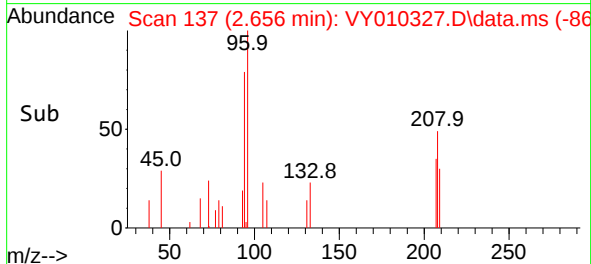
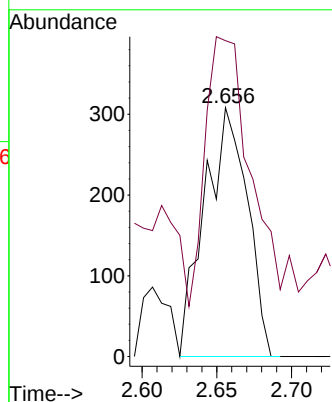
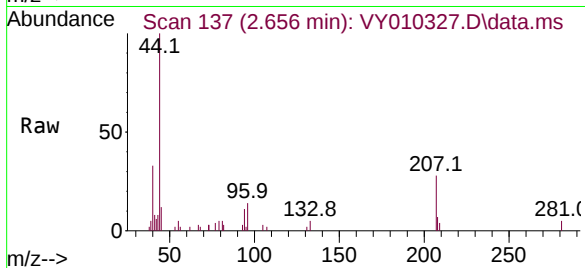




#5  
Bromomethane  
Concen: 1.499 ug/l  
RT: 2.656 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

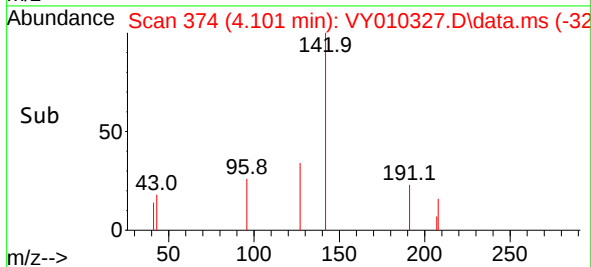
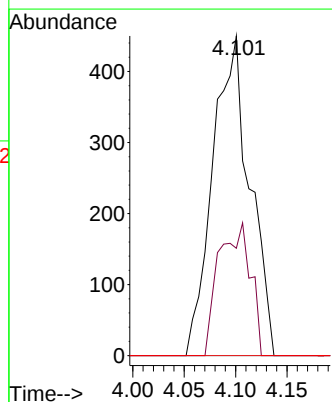
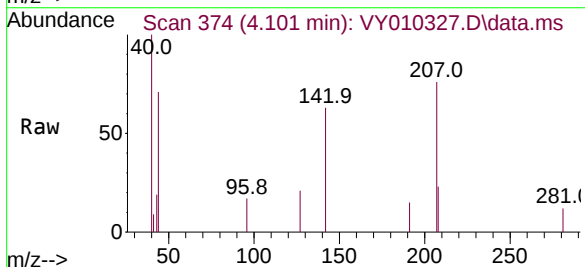
Instrument :  
MSVOA\_Y  
ClientSampleId :  
KTS2-TR-03-3-4

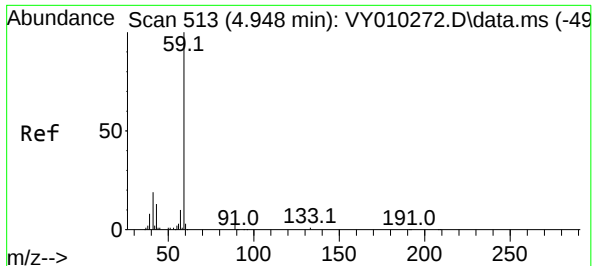
Tgt Ion: 94 Resp: 614  
Ion Ratio Lower Upper  
94 100  
96 100.0 73.5 110.3



#10  
Methyl Iodide  
Concen: 6.305 ug/l  
RT: 4.101 min Scan# 374  
Delta R.T. 0.013 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 142 Resp: 1127  
Ion Ratio Lower Upper  
142 100  
127 35.4 41.5 62.3#  
141 0.0 11.9 17.9#





#11

Tert butyl alcohol

Concen: 3.666 ug/l

RT: 4.942 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY010327.D

Acq: 03 Sep 2022 17:55

Instrument :

MSVOA\_Y

ClientSampleId :

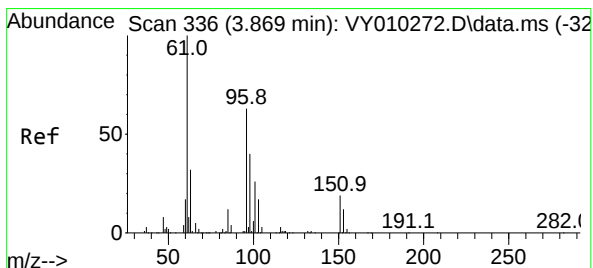
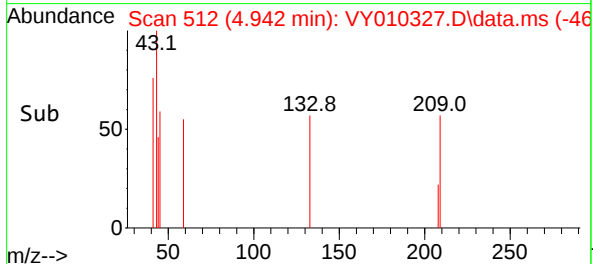
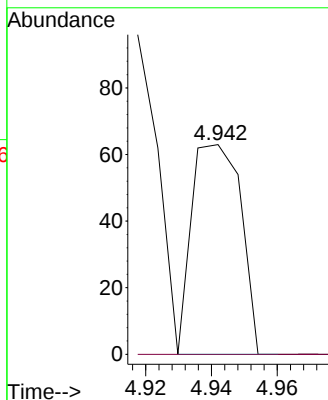
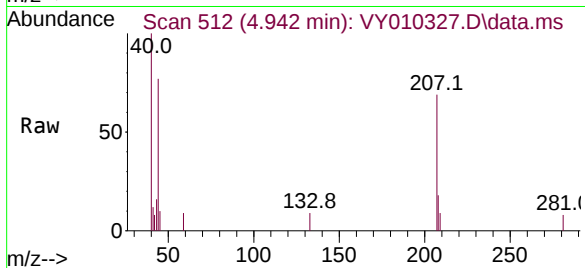
KTS2-TR-03-3-4

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#12

1,1-Dichloroethene

Concen: 1.904 ug/l

RT: 3.851 min Scan# 333

Delta R.T. -0.018 min

Lab File: VY010327.D

Acq: 03 Sep 2022 17:55

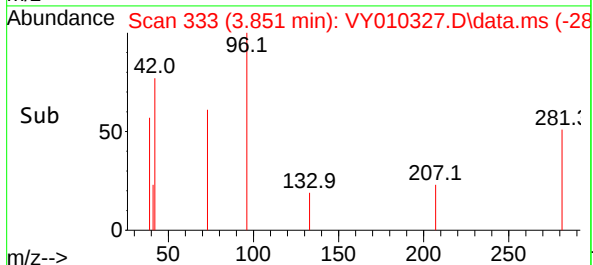
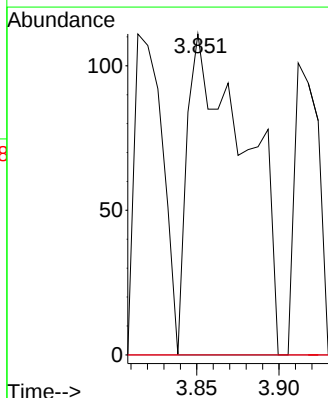
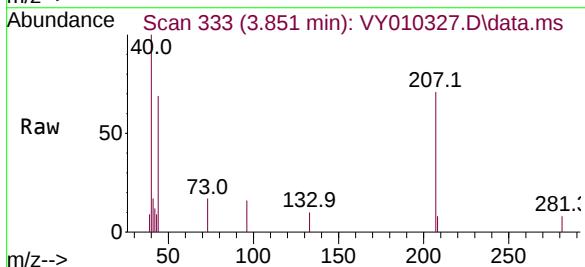
Tgt Ion: 96 Resp: 274

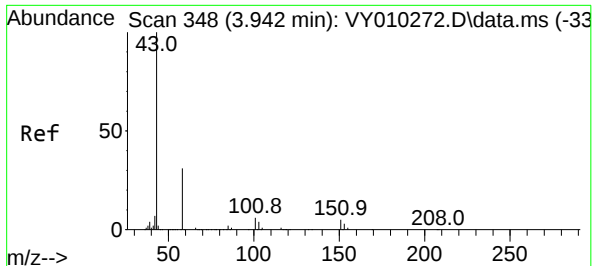
Ion Ratio Lower Upper

96 100

61 0.0 145.8 218.6#

98 0.0 52.5 78.7#

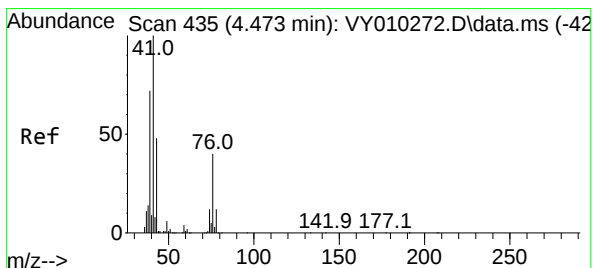
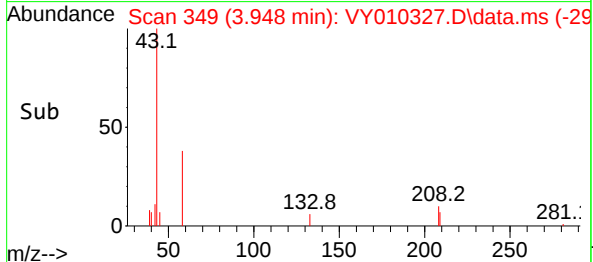
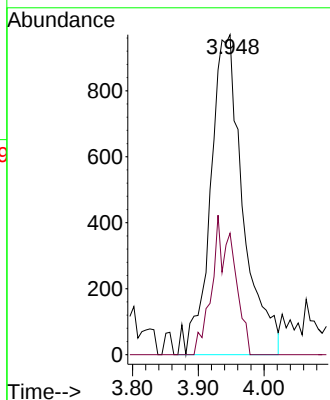
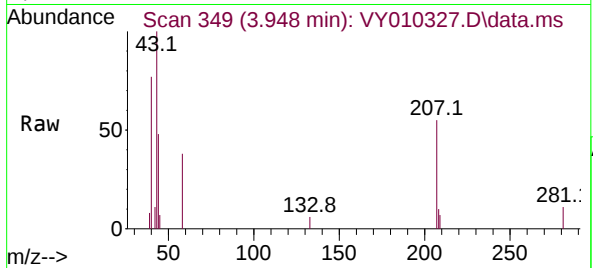




#16  
Acetone  
Concen: 90.154 ug/l  
RT: 3.948 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

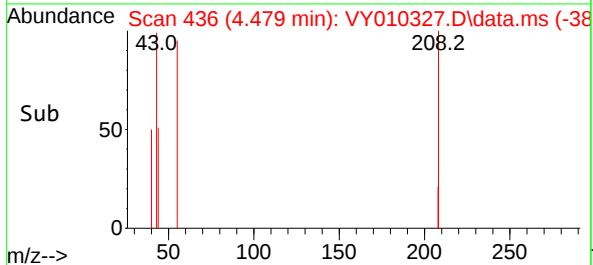
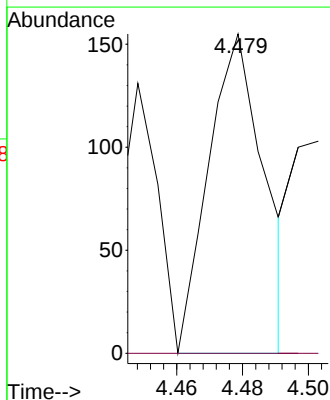
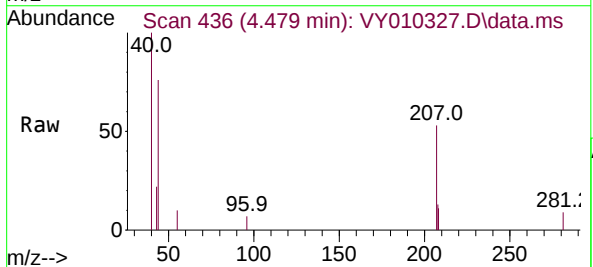
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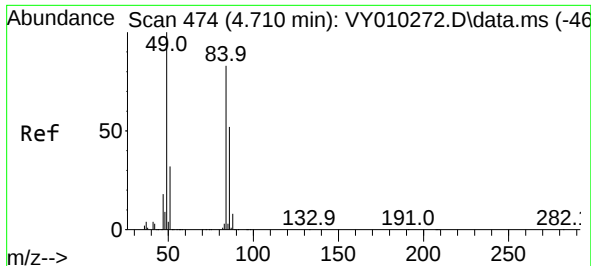
Tgt Ion: 43 Resp: 3340  
Ion Ratio Lower Upper  
43 100  
58 37.9 22.0 33.0#



#18  
Methyl Acetate  
Concen: 1.592 ug/l  
RT: 4.479 min Scan# 436  
Delta R.T. 0.006 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 43 Resp: 183  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#

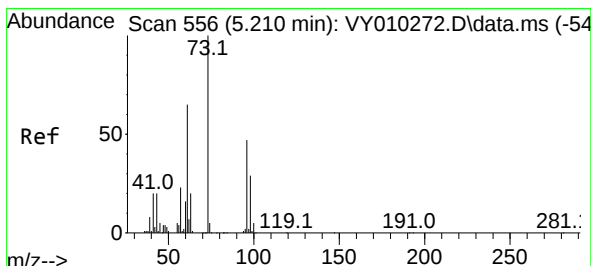
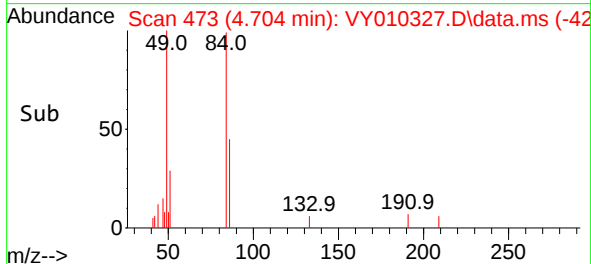
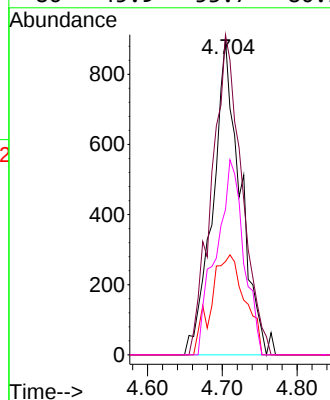
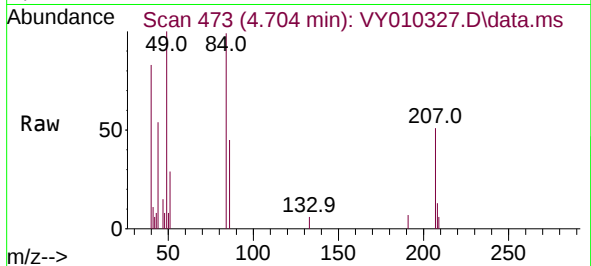




#20  
Methylene Chloride  
Concen: 12.904 ug/l  
RT: 4.704 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

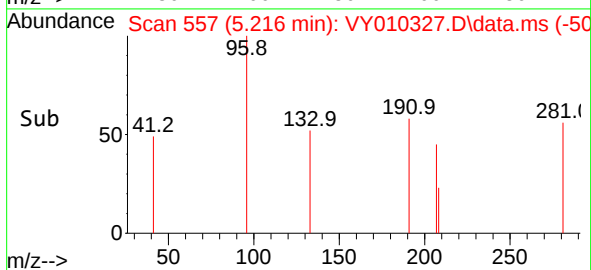
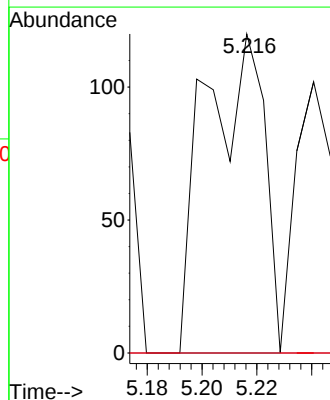
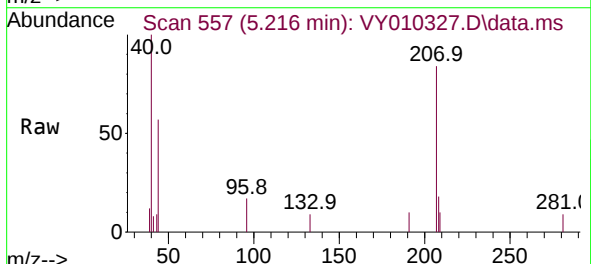
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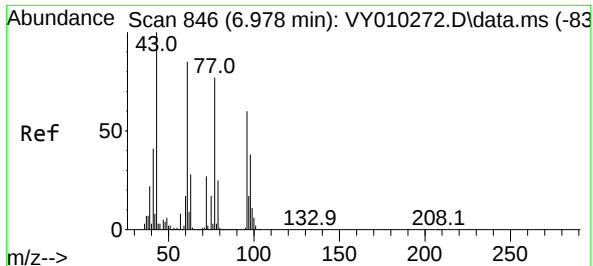
Tgt Ion: 84 Resp: 2307  
Ion Ratio Lower Upper  
84 100  
49 101.3 114.4 171.6#  
51 29.5 35.3 52.9#  
86 45.9 53.7 80.5#



#21  
trans-1,2-Dichloroethene  
Concen: 1.098 ug/l  
RT: 5.216 min Scan# 557  
Delta R.T. 0.006 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 96 Resp: 179  
Ion Ratio Lower Upper  
96 100  
61 0.0 120.5 180.7#  
98 0.0 49.8 74.8#





#25

2-Butanone

Concen: 12.648 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.012 min

Lab File: VY010327.D

Acq: 03 Sep 2022 17:55

Instrument :

MSVOA\_Y

ClientSampleId :

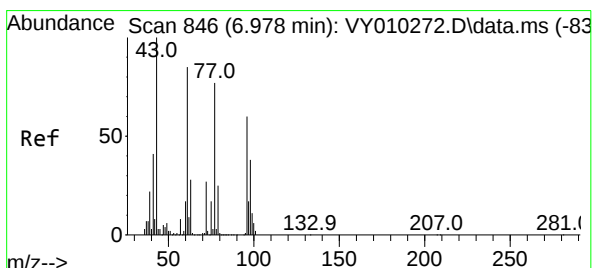
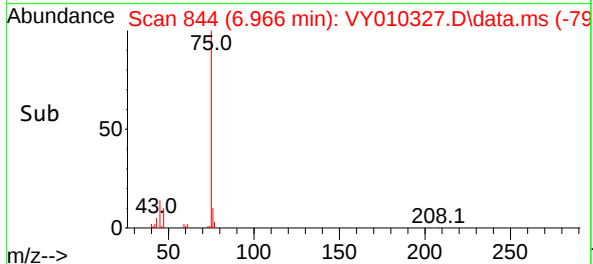
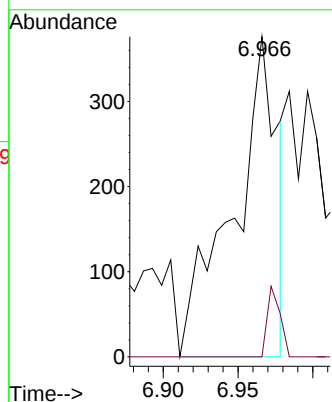
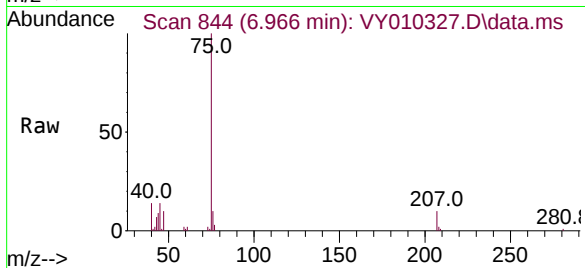
KTS2-TR-03-3-4

Tgt Ion: 43 Resp: 769

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#26

2,2-Dichloropropane

Concen: 1.337 ug/l

RT: 6.960 min Scan# 843

Delta R.T. -0.018 min

Lab File: VY010327.D

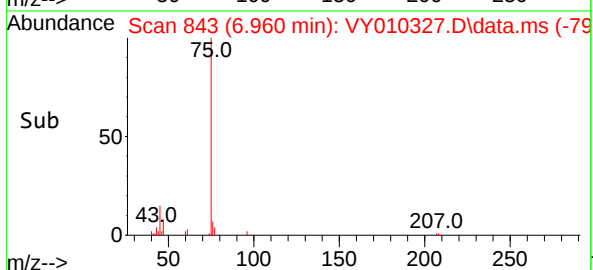
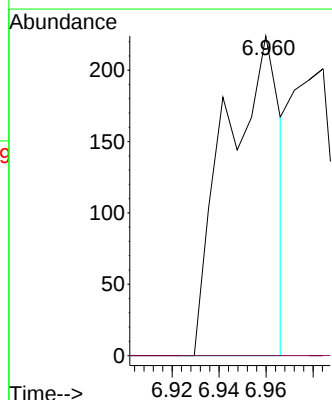
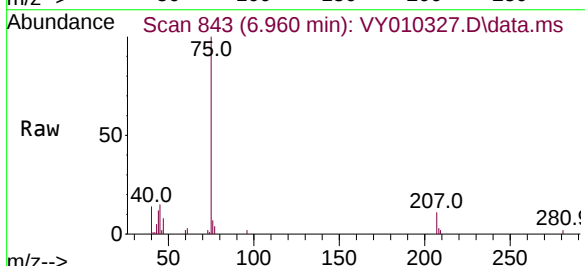
Acq: 03 Sep 2022 17:55

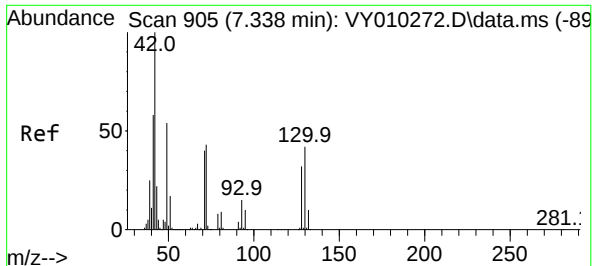
Tgt Ion: 77 Resp: 361

Ion Ratio Lower Upper

77 100

97 0.0 10.4 31.4#





#29

Tetrahydrofuran

Concen: 1.232 ug/l

RT: 7.313 min Scan# 905

Delta R.T. -0.025 min

Lab File: VY010327.D

Acq: 03 Sep 2022 17:55

Instrument :

MSVOA\_Y

ClientSampleId :

KTS2-TR-03-3-4

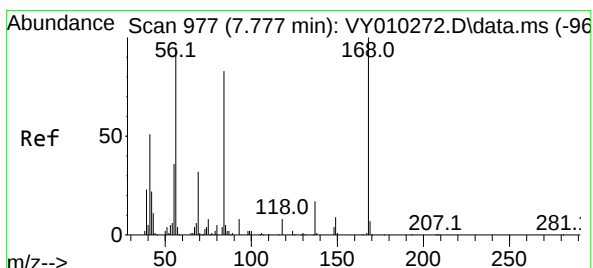
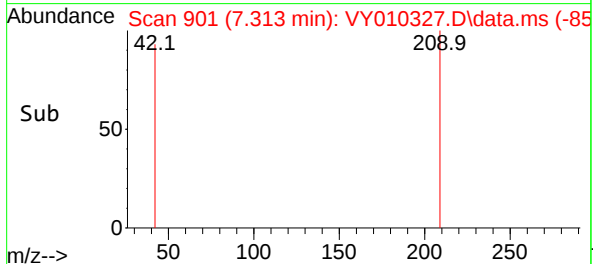
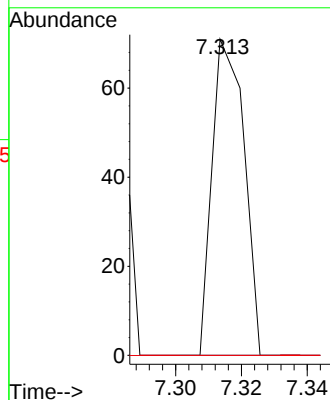
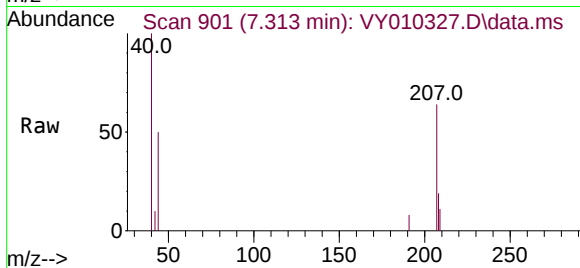
Tgt Ion: 42 Resp: 48

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 29.0 43.4#



#31

Cyclohexane

Concen: 1.048 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.012 min

Lab File: VY010327.D

Acq: 03 Sep 2022 17:55

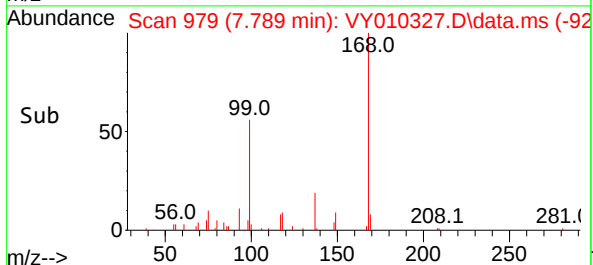
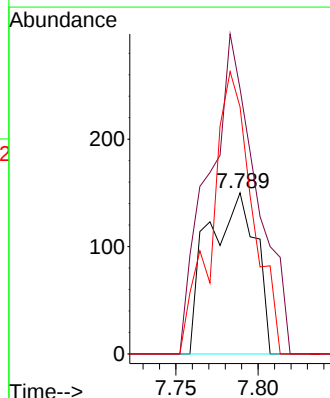
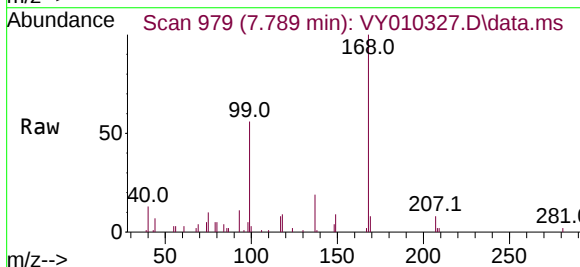
Tgt Ion: 56 Resp: 303

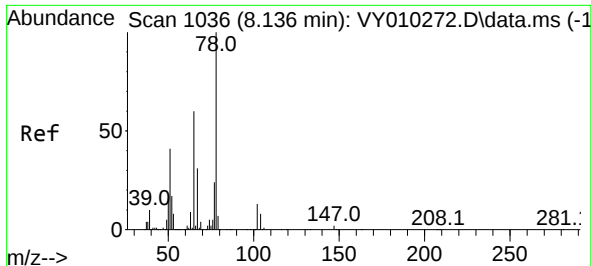
Ion Ratio Lower Upper

56 100

69 164.7 26.7 40.1#

84 153.3 67.2 100.8#

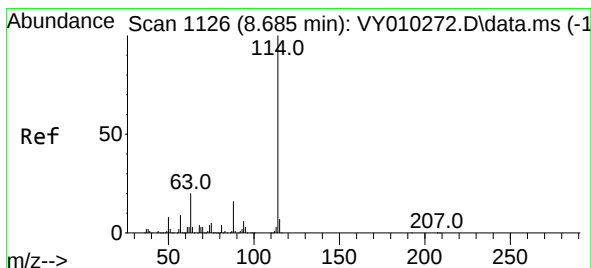
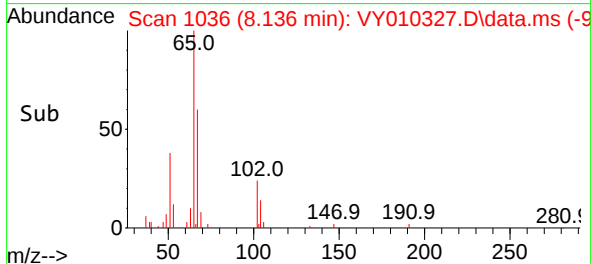
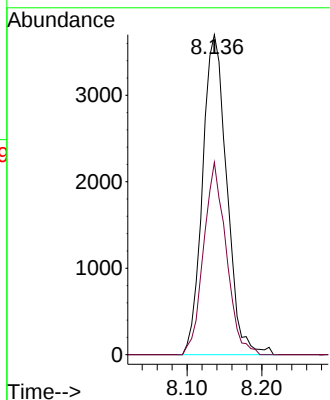
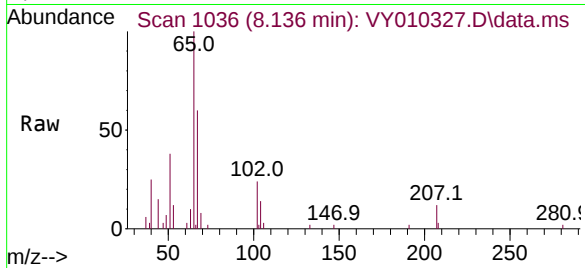




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.228 ug/l  
 RT: 8.136 min Scan# 1036  
 Delta R.T. 0.001 min  
 Lab File: VY010327.D  
 Acq: 03 Sep 2022 17:55

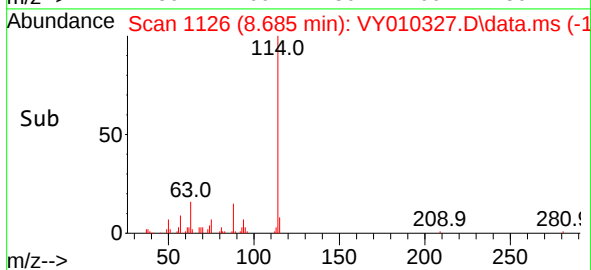
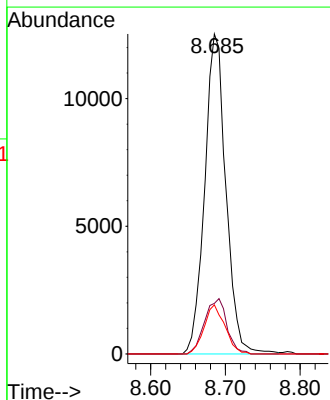
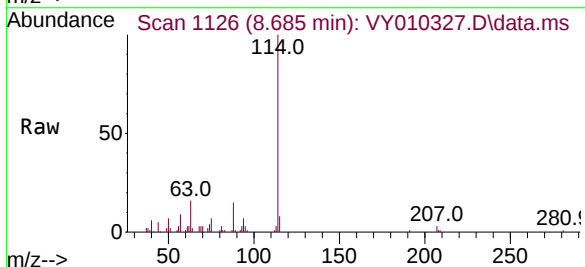
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 KTS2-TR-03-3-4

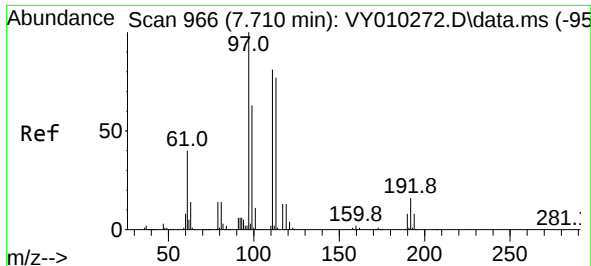
Tgt Ion: 65 Resp: 8333  
 Ion Ratio Lower Upper  
 65 100  
 67 56.3 0.0 99.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.685 min Scan# 1126  
 Delta R.T. 0.000 min  
 Lab File: VY010327.D  
 Acq: 03 Sep 2022 17:55

Tgt Ion: 114 Resp: 24720  
 Ion Ratio Lower Upper  
 114 100  
 63 15.8 0.0 43.2  
 88 15.4 0.0 31.8

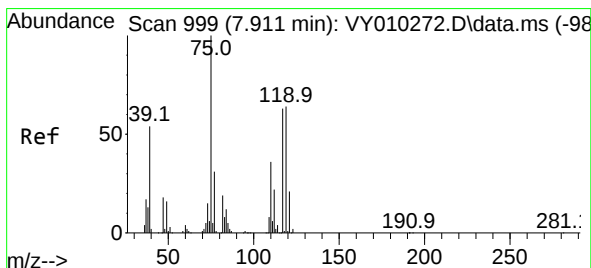
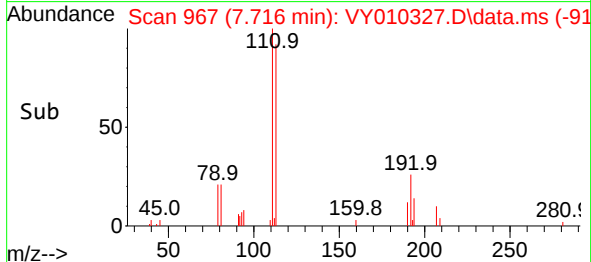
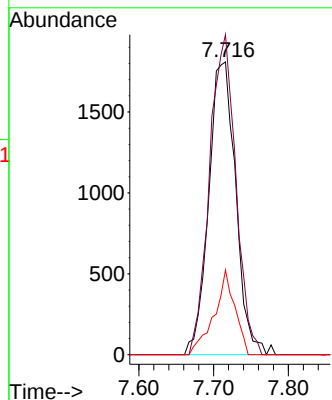
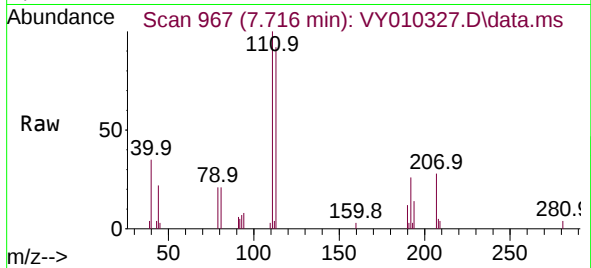




#35  
Dibromofluoromethane  
Concen: 27.746 ug/l  
RT: 7.716 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

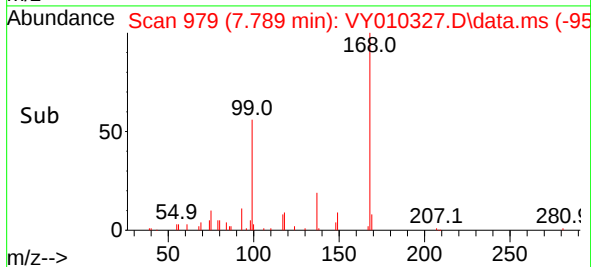
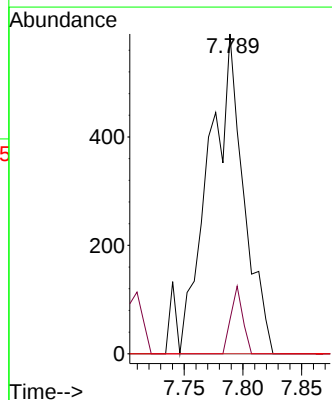
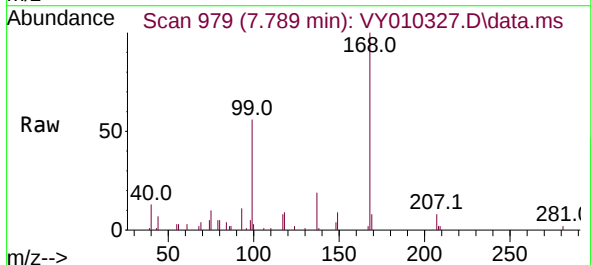
Instrument :  
MSVOA\_Y  
ClientSampleId :  
KTS2-TR-03-3-4

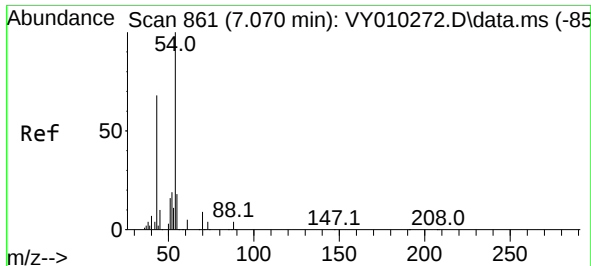
Tgt Ion:113 Resp: 4566  
Ion Ratio Lower Upper  
113 100  
111 106.0 82.6 124.0  
192 22.1 17.6 26.4



#36  
1,1-Dichloropropene  
Concen: 5.049 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.122 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 75 Resp: 1219  
Ion Ratio Lower Upper  
75 100  
110 7.2 17.1 51.2#  
77 0.0 24.4 36.6#

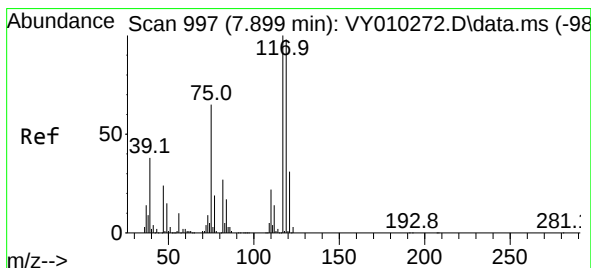
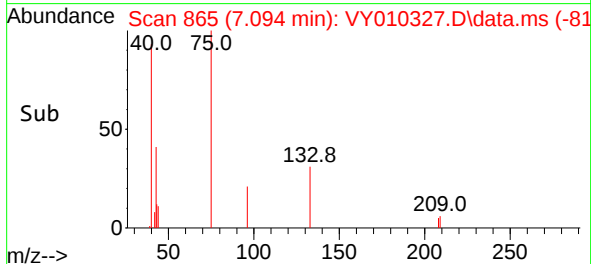
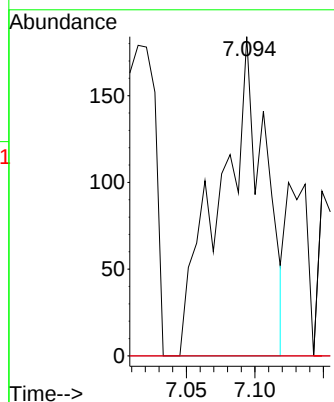
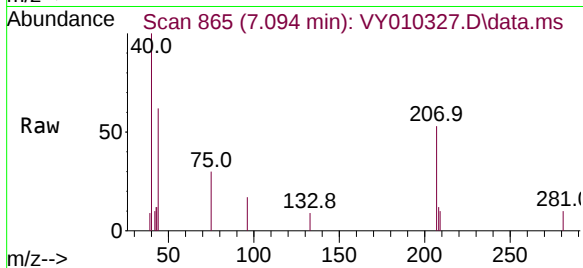




#37  
Ethyl Acetate  
Concen: 3.048 ug/l  
RT: 7.094 min Scan# 80  
Delta R.T. 0.024 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

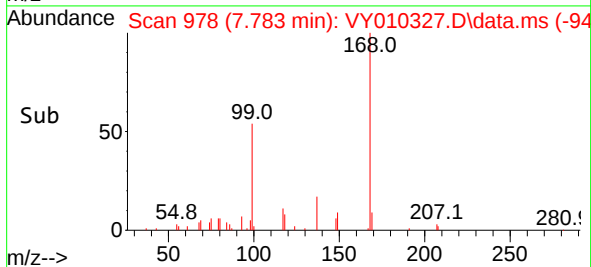
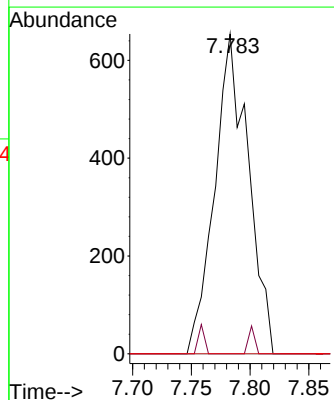
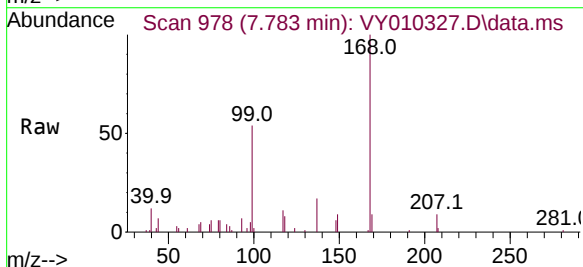
Instrument :  
MSVOA\_Y  
ClientSampleId :  
KTS2-TR-03-3-4

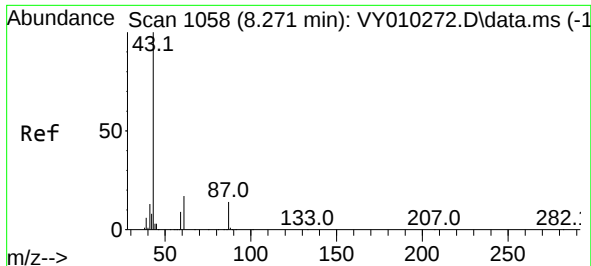
Tgt Ion: 43 Resp: 422  
Ion Ratio Lower Upper  
43 100  
61 0.0 9.7 14.5#  
70 0.0 7.1 10.7#



#38  
Carbon Tetrachloride  
Concen: 5.220 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.116 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 117 Resp: 1299  
Ion Ratio Lower Upper  
117 100  
119 0.0 77.9 116.9#  
121 0.0 24.8 37.2#

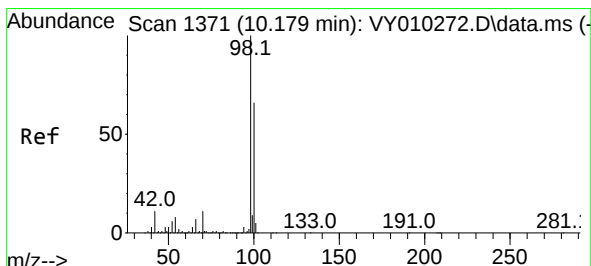
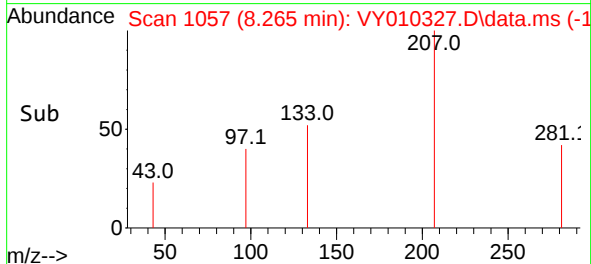
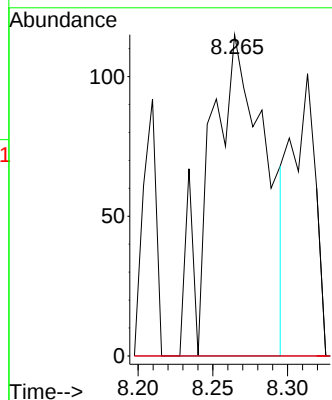
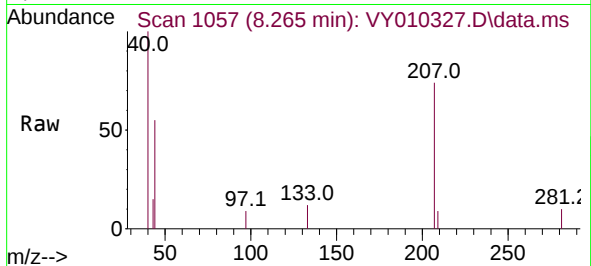




#43  
Isopropyl Acetate  
Concen: 1.144 ug/l  
RT: 8.265 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

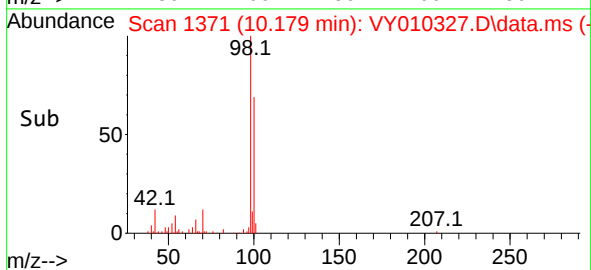
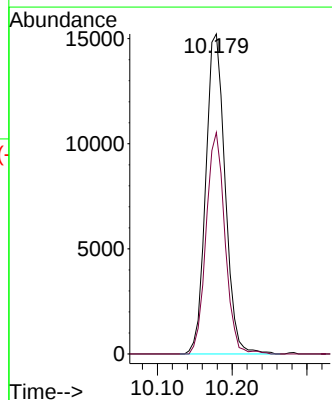
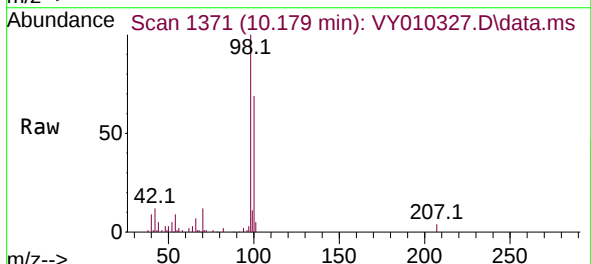
Instrument :  
MSVOA\_Y  
ClientSampleId :  
KTS2-TR-03-3-4

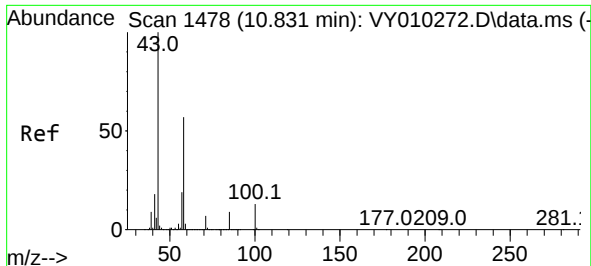
Tgt Ion: 43 Resp: 302  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.2 30.2#  
87 0.0 8.9 13.3#



#50  
Toluene-d8  
Concen: 49.600 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 98 Resp: 27328  
Ion Ratio Lower Upper  
98 100  
100 67.3 50.2 75.2





#59

2-Hexanone

Concen: 1.388 ug/l

RT: 10.831 min Scan# 1478

Delta R.T. 0.000 min

Lab File: VY010327.D

Acq: 03 Sep 2022 17:55

Instrument :

MSVOA\_Y

ClientSampleId :

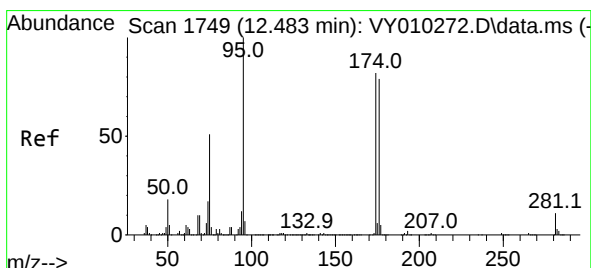
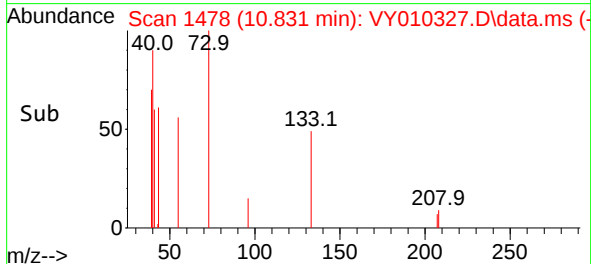
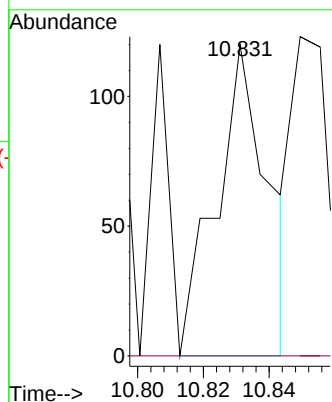
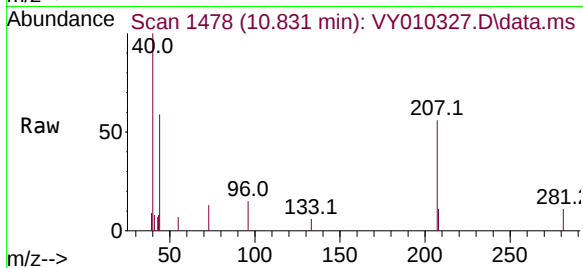
KTS2-TR-03-3-4

Tgt Ion: 43 Resp: 131

Ion Ratio Lower Upper

43 100

58 0.0 24.4 73.4#



#62

4-Bromofluorobenzene

Concen: 40.386 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.006 min

Lab File: VY010327.D

Acq: 03 Sep 2022 17:55

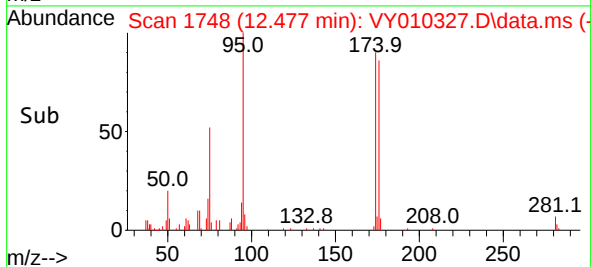
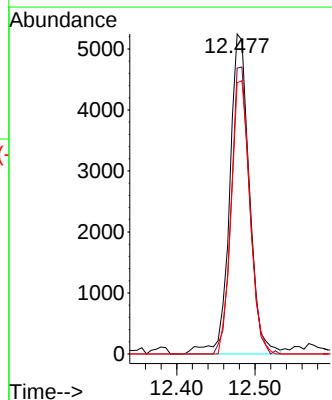
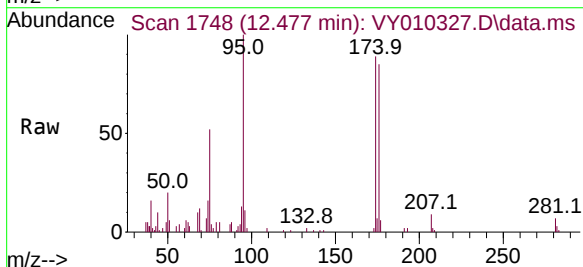
Tgt Ion: 95 Resp: 9179

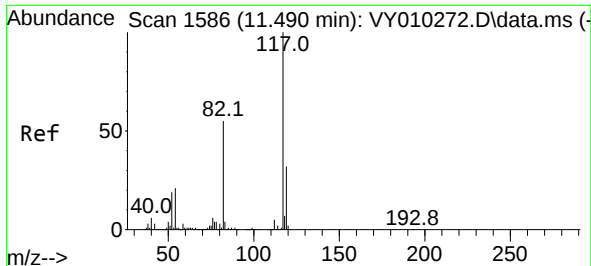
Ion Ratio Lower Upper

95 100

174 83.1 0.0 177.0

176 80.8 0.0 175.8

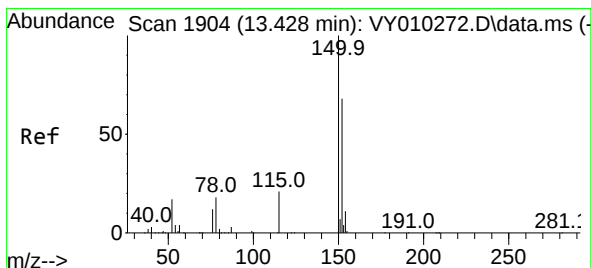
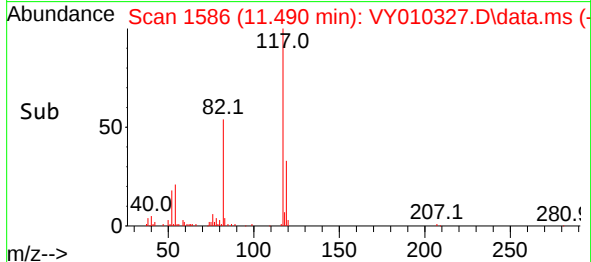
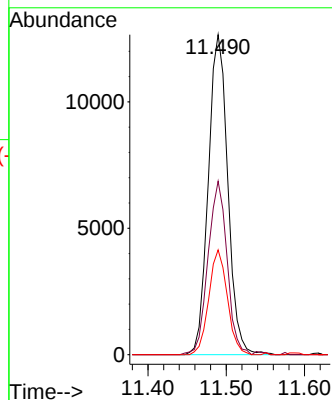
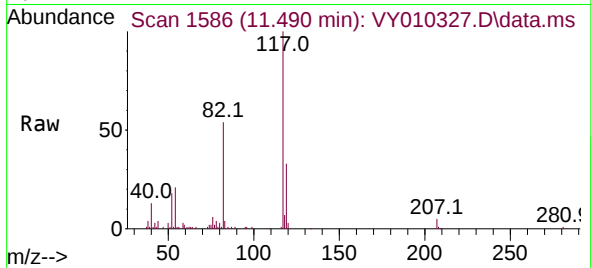




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

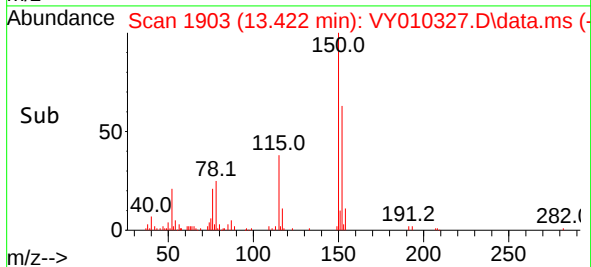
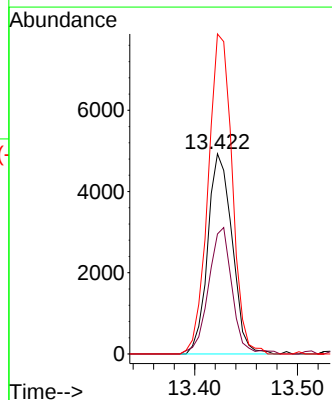
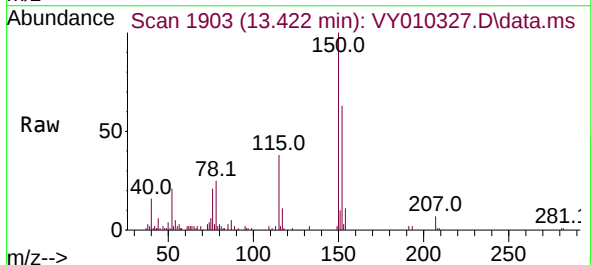
Instrument :  
MSVOA\_Y  
ClientSampleId :  
KTS2-TR-03-3-4

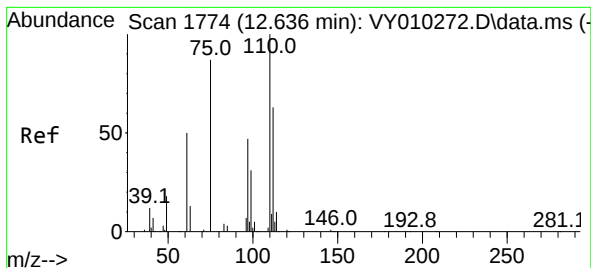
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 21857 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 54.2  | 43.0  | 64.4  |
| 119      | 32.7  | 25.4  | 38.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 8109  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 61.1  | 28.2  | 84.7  |
| 150      | 157.9 | 0.0   | 347.6 |

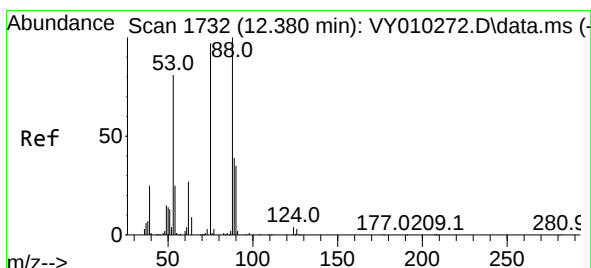
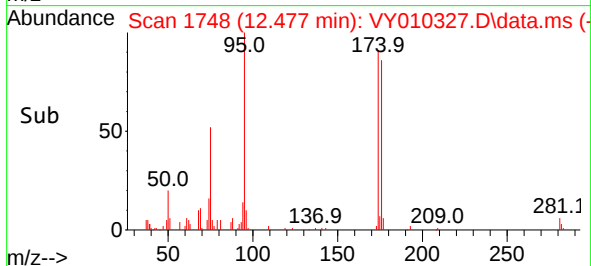
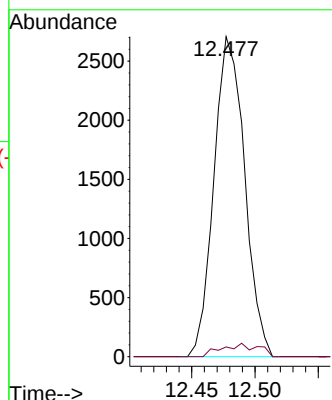
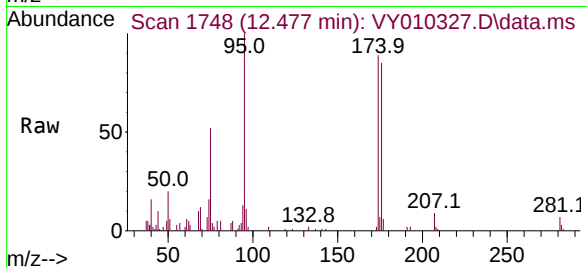




#76  
1,2,3-Trichloropropane  
Concen: 47.295 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.159 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Instrument :  
MSVOA\_Y  
ClientSampleId :  
KTS2-TR-03-3-4

Tgt Ion: 75 Resp: 4564  
Ion Ratio Lower Upper  
75 100  
77 4.9 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 98.663 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY010327.D  
Acq: 03 Sep 2022 17:55

Tgt Ion: 75 Resp: 4564  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#

