

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062323\  
 Data File : VY014408.D  
 Acq On : 23 Jun 2023 15:28  
 Operator : KP/MD  
 Sample : 03329-05RE  
 Misc : 7.28g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-SW03-0-8-GRAB-6RE

Quant Time: Jun 23 17:24:50 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 17:18:46 2023  
 Response via : Initial Calibration

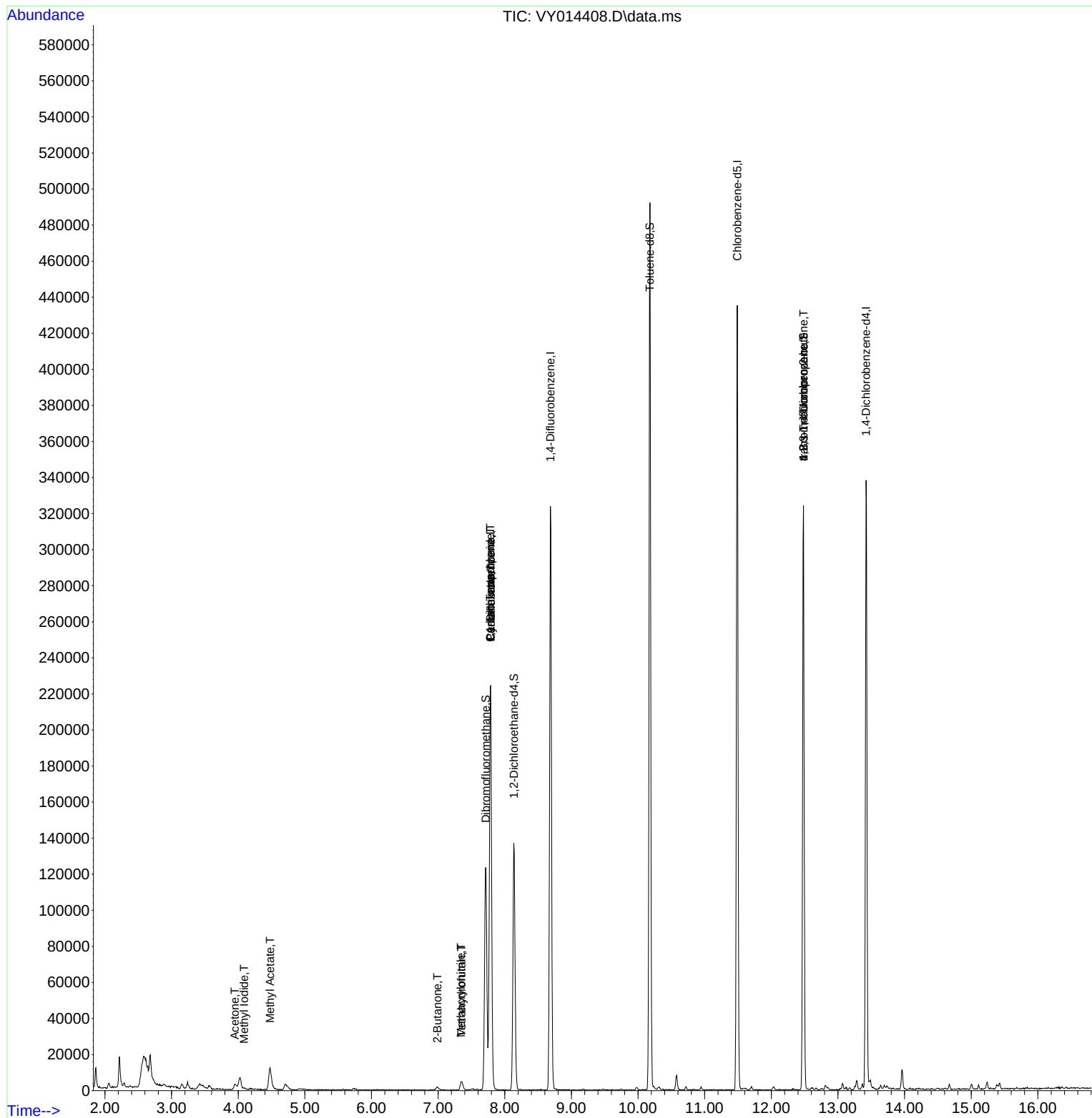
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 180299   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 270634   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 231998   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 89027    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 120165   | 53.679    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 107.360% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 84137    | 50.320    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 100.640% |          |
| 50) Toluene-d8                | 10.179 | 98    | 316331   | 47.593    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 95.180%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 89240    | 37.609    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 75.220%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 10) Methyl Iodide             | 4.088  | 142   | 1440     | 3.491     | ug/l #     | 68       |
| 11) Tert butyl alcohol        | 4.978  | 59    | 933      | Below Cal | #          | 89       |
| 16) Acetone                   | 3.948  | 43    | 6692     | 9.500     | ug/l       | 91       |
| 18) Methyl Acetate            | 4.479  | 43    | 23945    | 9.888     | ug/l       | 96       |
| 20) Methylene Chloride        | 4.704  | 84    | 2335     | Below Cal | #          | 58       |
| 25) 2-Butanone                | 6.990  | 43    | 956      | 1.090     | ug/l #     | 49       |
| 29) Tetrahydrofuran           | 7.350  | 42    | 3635     | 6.948     | ug/l #     | 85       |
| 31) Cyclohexane               | 7.789  | 56    | 3832     | 1.386     | ug/l #     | 32       |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 12458    | 4.835     | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 17823    | 5.497     | ug/l #     | 16       |
| 41) Methacrylonitrile         | 7.344  | 41    | 2389     | 2.715     | ug/l #     | 42       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 50034    | 44.802    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 50034    | 102.000   | ug/l #     | 11       |
| -----                         |        |       |          |           |            |          |

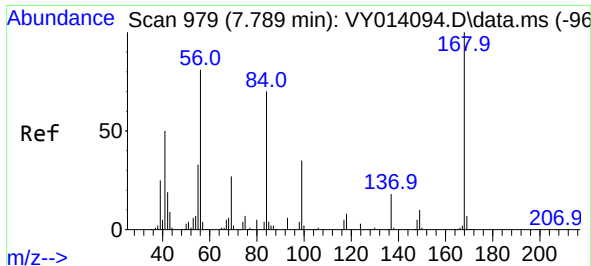
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062323\  
Data File : VY014408.D  
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Sample : 03329-05RE  
Misc : 7.28g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE

Quant Time: Jun 23 17:24:50 2023  
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Quant Title : SW846 8260  
QLast Update : Fri Jun 23 17:18:46 2023  
Response via : Initial Calibration

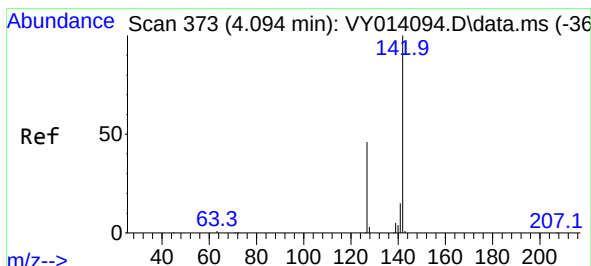
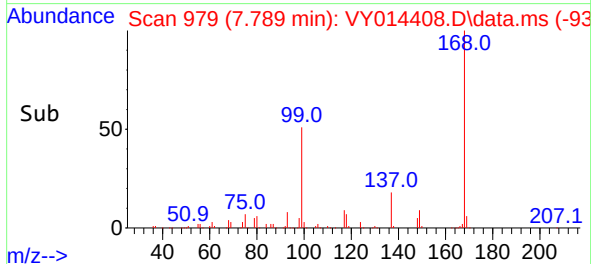
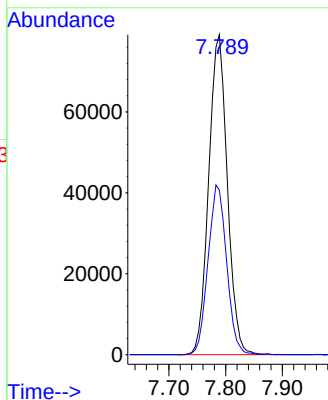
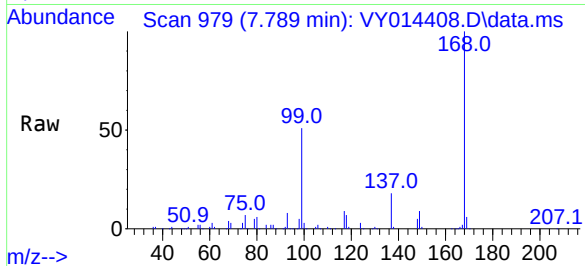




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

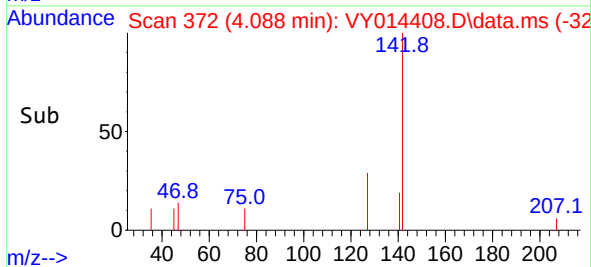
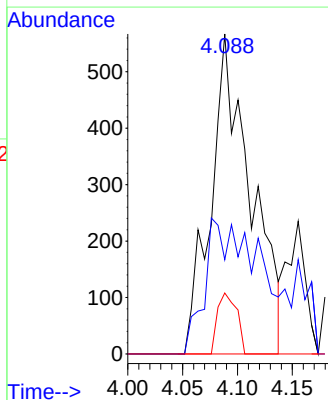
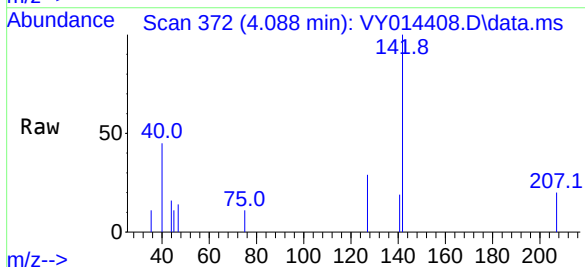
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE

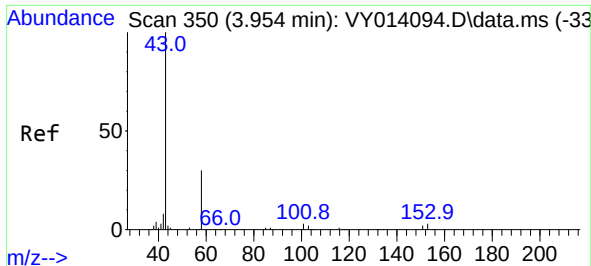
Tgt Ion:168 Resp: 180299  
Ion Ratio Lower Upper  
168 100  
99 51.4 43.4 65.0



#10  
Methyl Iodide  
Concen: 3.491 ug/l  
RT: 4.088 min Scan# 372  
Delta R.T. -0.006 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

Tgt Ion:142 Resp: 1440  
Ion Ratio Lower Upper  
142 100  
127 21.8 37.6 56.4#  
141 9.2 11.8 17.8#

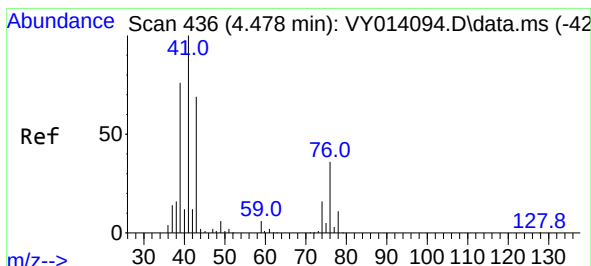
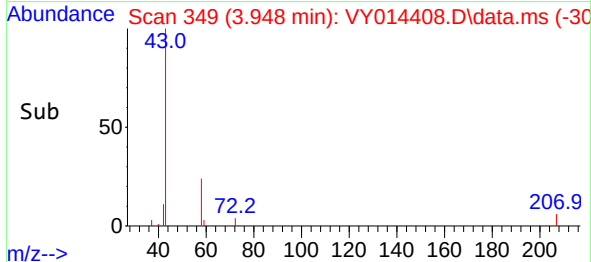
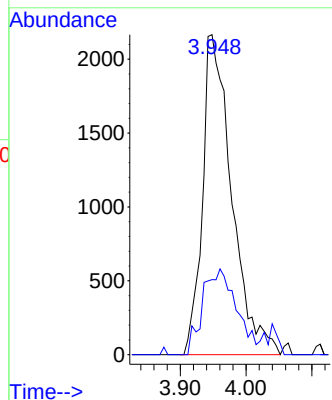
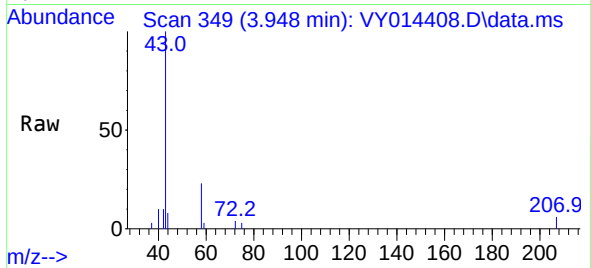




#16  
Acetone  
Concen: 9.500 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. -0.006 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

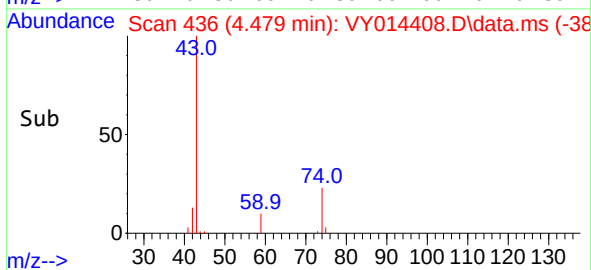
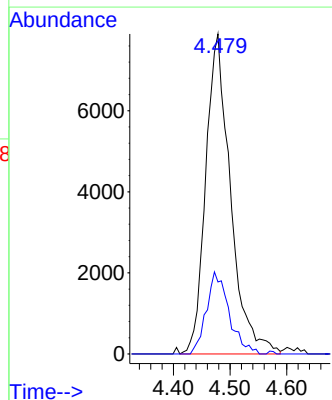
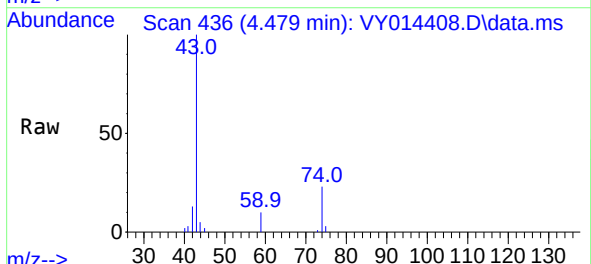
Instrument : MSVOA\_Y  
ClientSampleId : TOTAL-VOC-SW03-0-8-GRAB-6RE

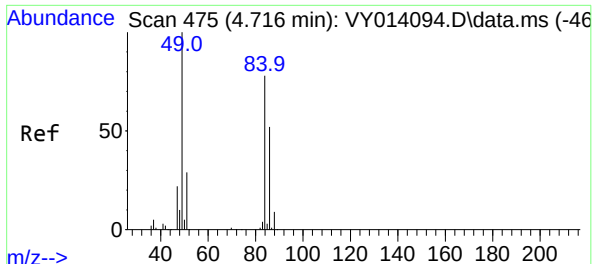
Tgt Ion: 43 Resp: 6692  
Ion Ratio Lower Upper  
43 100  
58 23.5 22.7 34.1



#18  
Methyl Acetate  
Concen: 9.888 ug/l  
RT: 4.479 min Scan# 436  
Delta R.T. 0.001 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

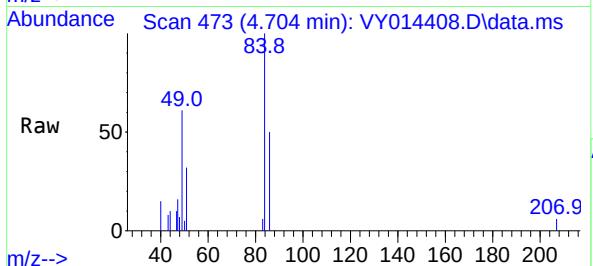
Tgt Ion: 43 Resp: 23945  
Ion Ratio Lower Upper  
43 100  
74 23.5 17.4 26.0





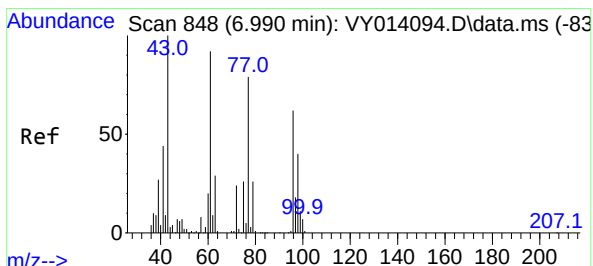
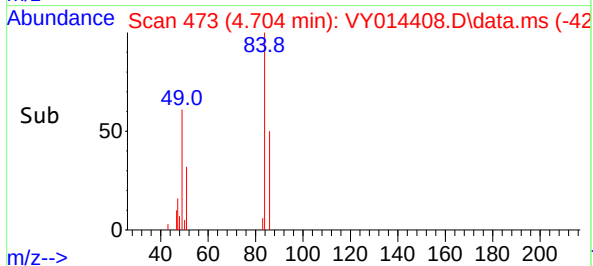
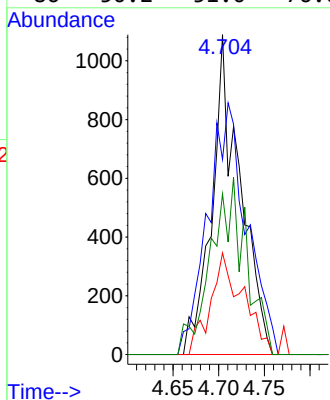
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.704 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE



Tgt Ion: 84 Resp: 2335

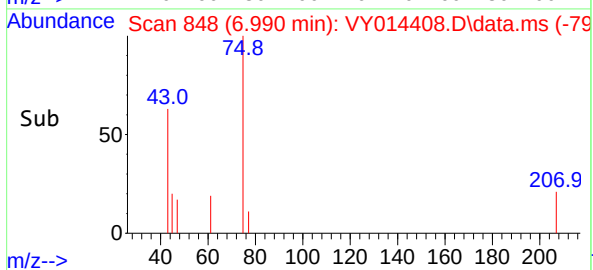
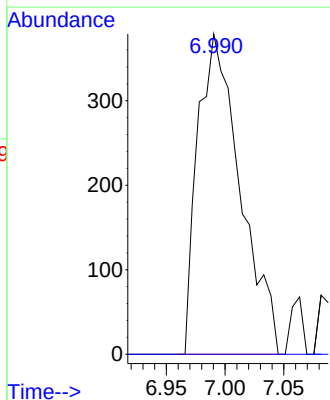
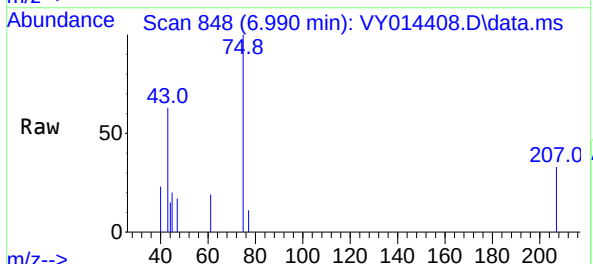
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 61.0  | 106.9 | 160.3# |
| 51  | 31.8  | 33.2  | 49.8#  |
| 86  | 50.2  | 51.0  | 76.6#  |

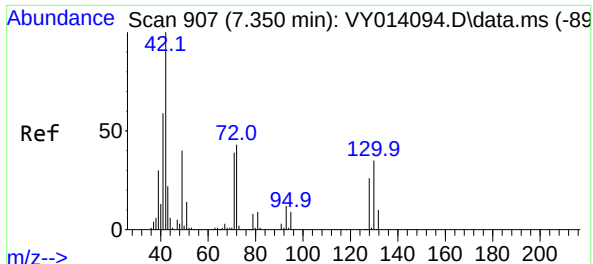


#25  
2-Butanone  
Concen: 1.090 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.000 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

Tgt Ion: 43 Resp: 956

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 20.5  | 30.7# |





#29

Tetrahydrofuran

Concen: 6.948 ug/l

RT: 7.350 min Scan# 907

Delta R.T. -0.000 min

Lab File: VY014408.D

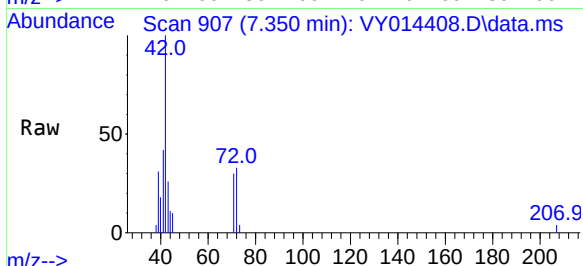
Acq: 23 Jun 2023 15:28

Instrument :

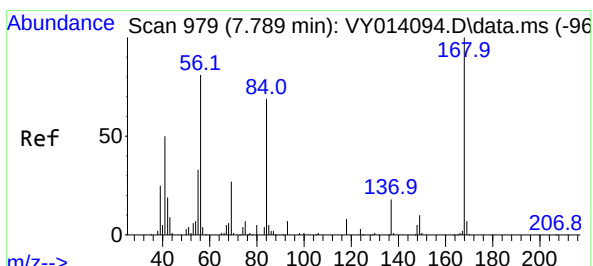
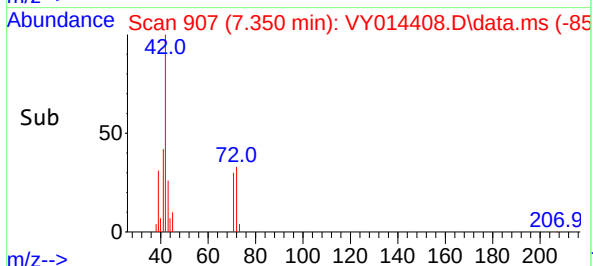
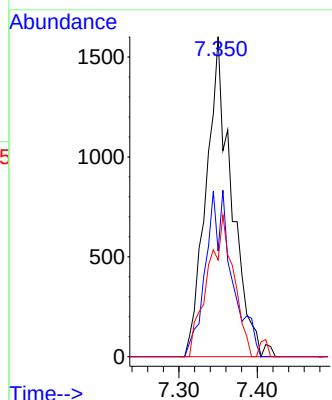
MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SW03-0-8-GRAB-6RE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 3635  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 53.2  | 32.8  | 49.2# |
| 71       | 44.4  | 31.0  | 46.4  |



#31

Cyclohexane

Concen: 1.386 ug/l

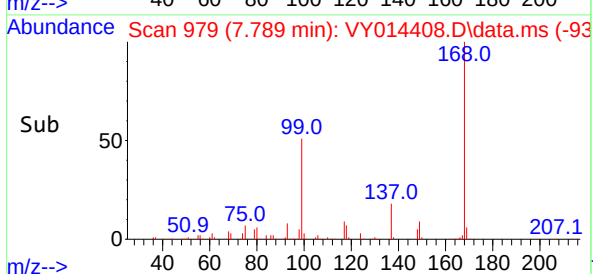
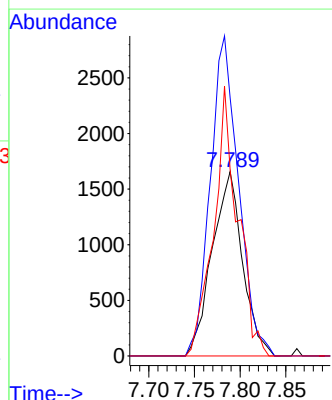
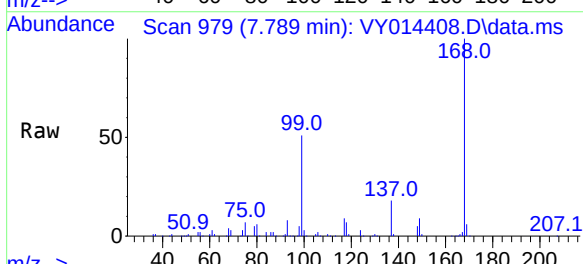
RT: 7.789 min Scan# 979

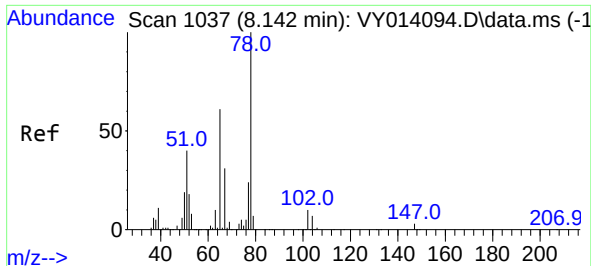
Delta R.T. -0.000 min

Lab File: VY014408.D

Acq: 23 Jun 2023 15:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 3832  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 140.1 | 27.8  | 41.6# |
| 84       | 101.1 | 66.4  | 99.6# |





#33

1,2-Dichloroethane-d4

Concen: 53.679 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VY014408.D

Acq: 23 Jun 2023 15:28

Instrument :

MSVOA\_Y

ClientSampleId :

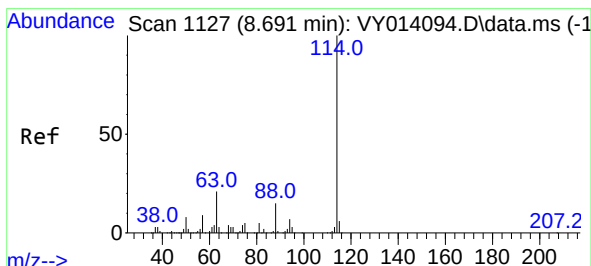
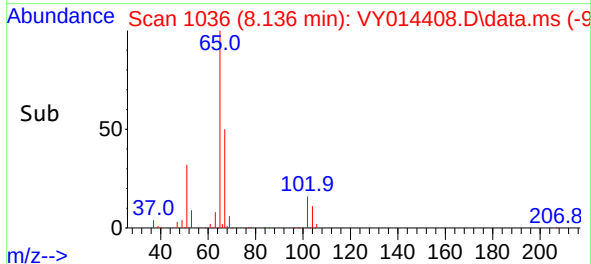
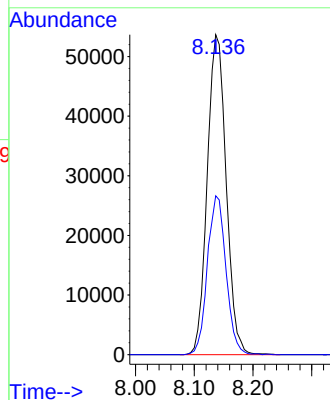
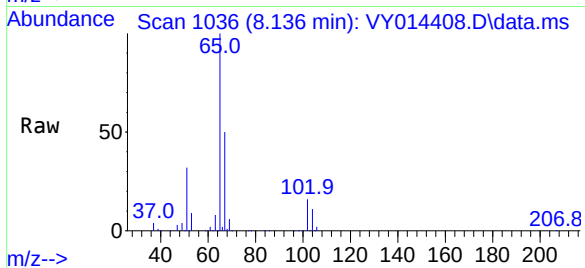
TOTAL-VOC-SW03-0-8-GRAB-6RE

Tgt Ion: 65 Resp: 120165

Ion Ratio Lower Upper

65 100

67 48.8 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY014408.D

Acq: 23 Jun 2023 15:28

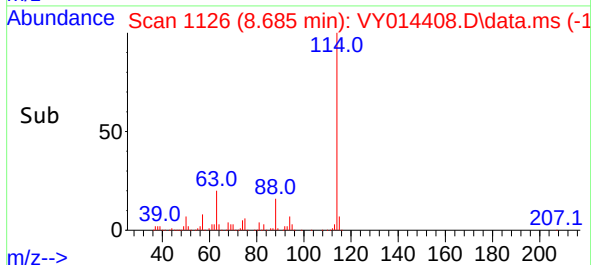
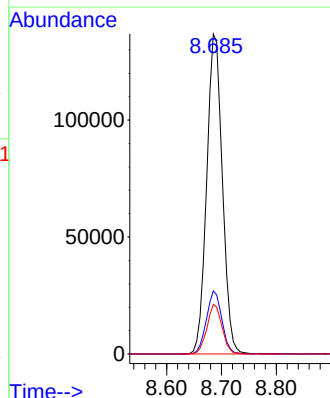
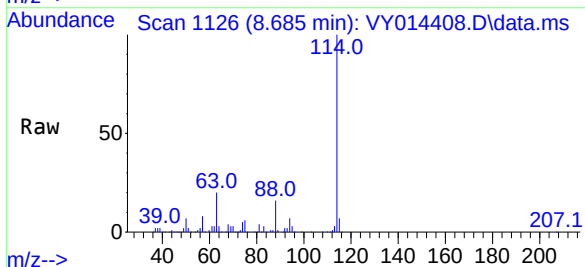
Tgt Ion: 114 Resp: 270634

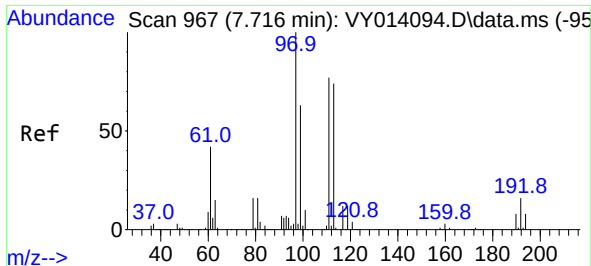
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 15.5 0.0 30.6

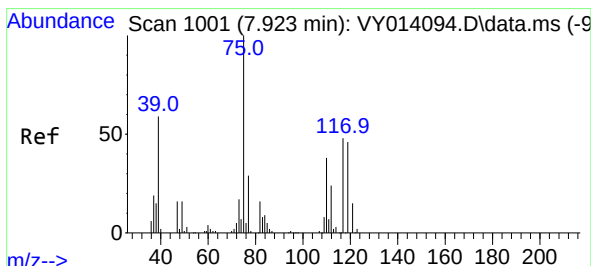
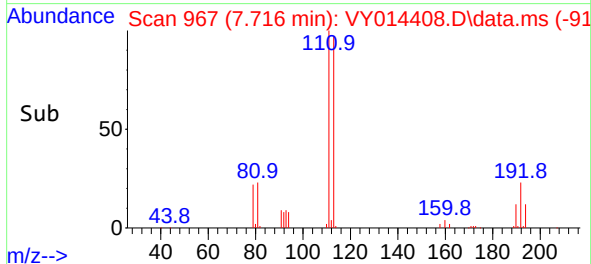
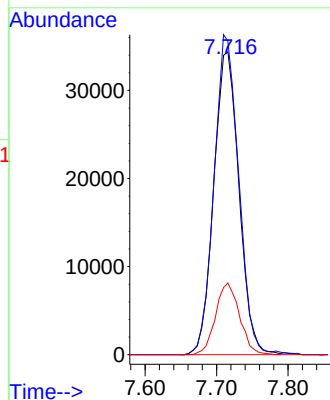
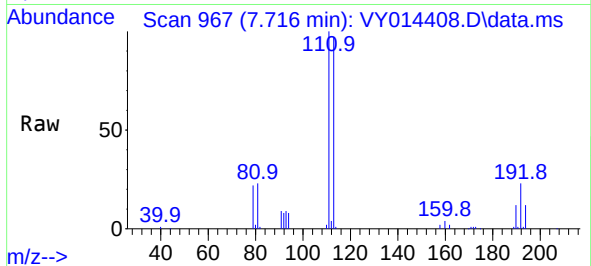




#35  
Dibromofluoromethane  
Concen: 50.320 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

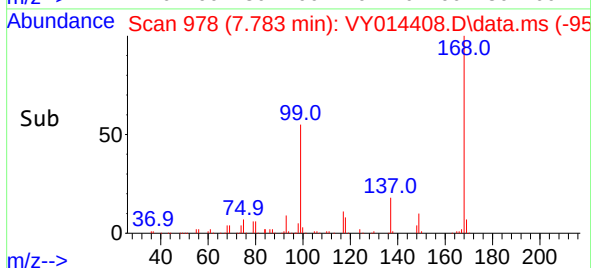
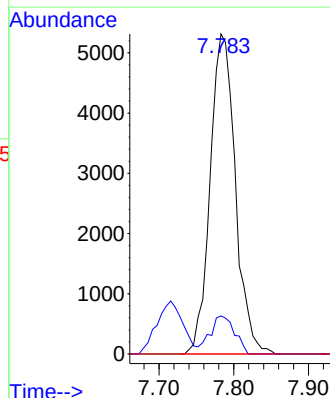
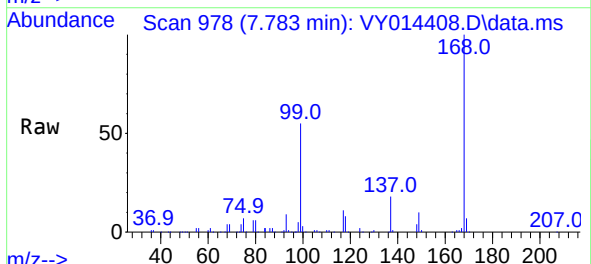
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 84137 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.7 | 81.3  | 121.9 |
| 192      | 22.5  | 16.9  | 25.3  |

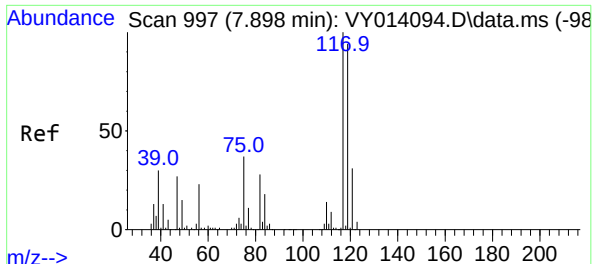


#36  
1,1-Dichloropropene  
Concen: 4.835 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 12458 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 11.5  | 17.8  | 53.5# |
| 77       | 0.0   | 24.4  | 36.6# |



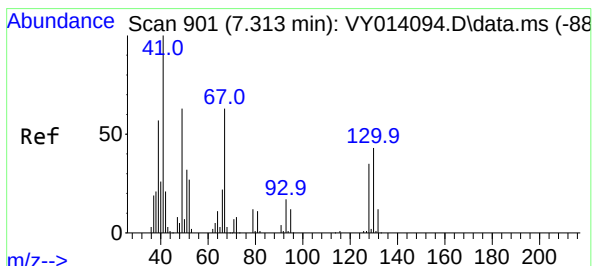
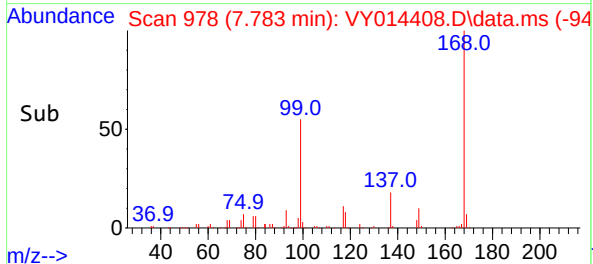
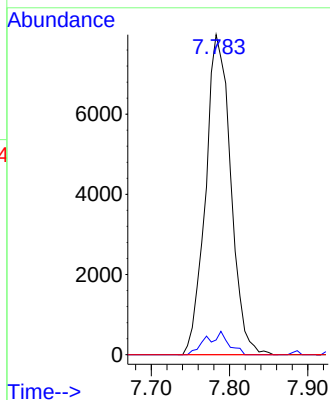
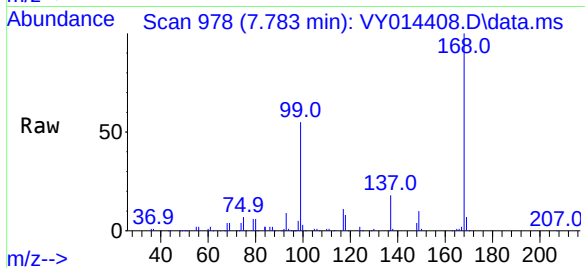




#38  
Carbon Tetrachloride  
Concen: 5.497 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.115 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

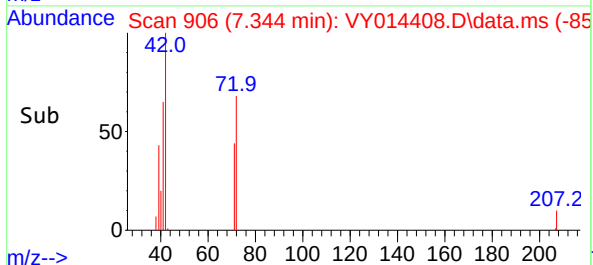
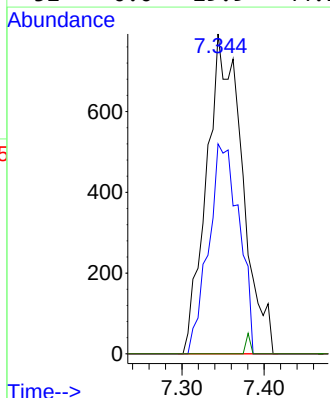
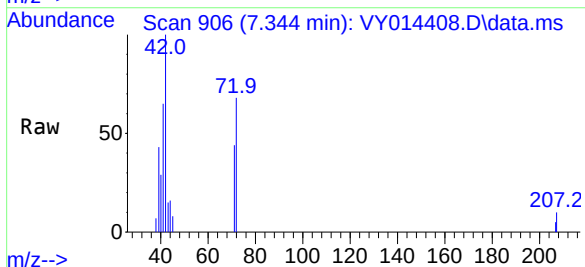
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE

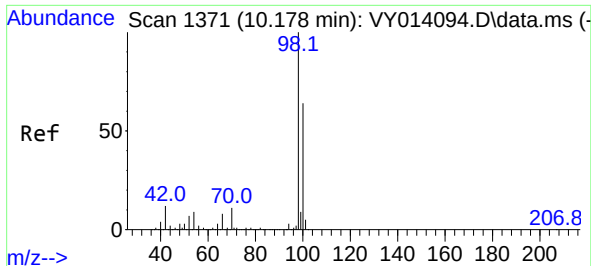
Tgt Ion:117 Resp: 17823  
Ion Ratio Lower Upper  
117 100  
119 4.6 76.4 114.6#  
121 0.0 25.8 38.6#



#41  
Methacrylonitrile  
Concen: 2.715 ug/l  
RT: 7.344 min Scan# 906  
Delta R.T. 0.031 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

Tgt Ion: 41 Resp: 2389  
Ion Ratio Lower Upper  
41 100  
39 56.3 52.1 78.1  
67 0.0 66.2 99.2#  
52 0.0 29.9 44.9#

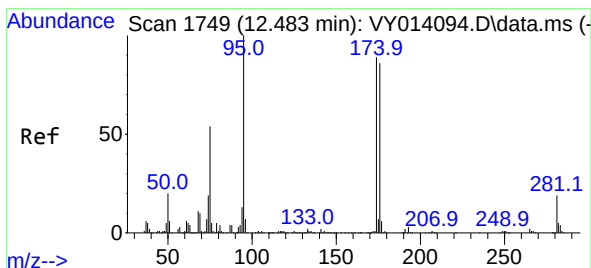
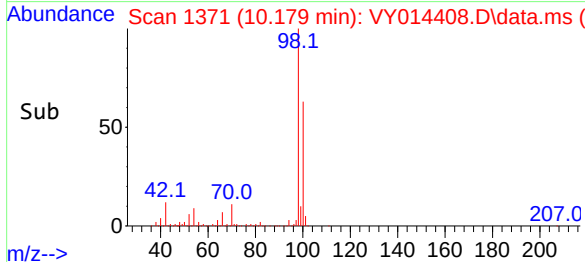
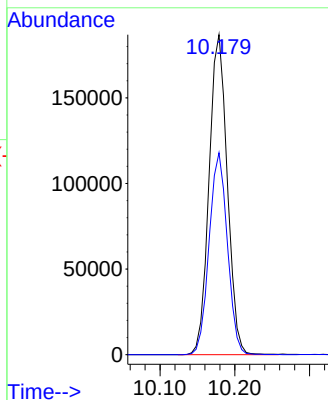
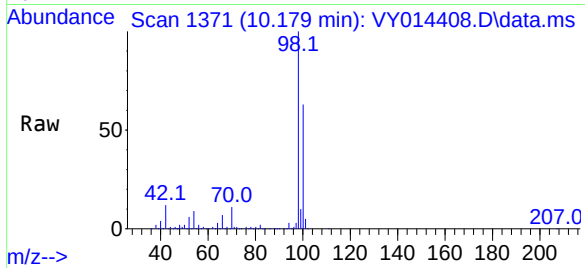




#50  
Toluene-d8  
Concen: 47.593 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

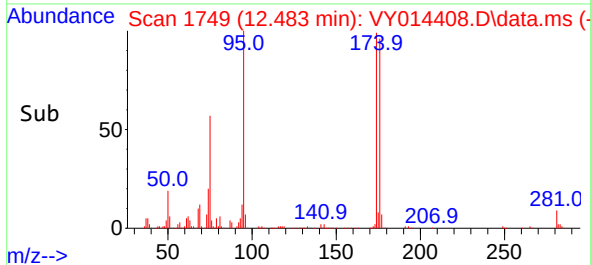
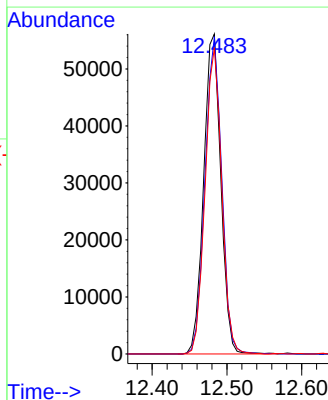
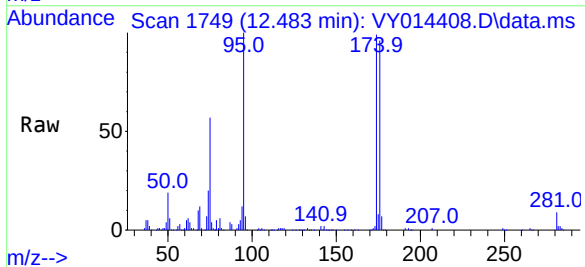
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE

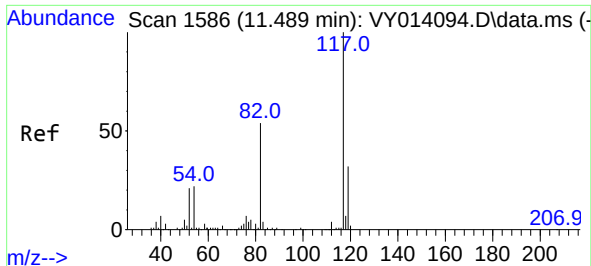
Tgt Ion: 98 Resp: 316331  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 37.609 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

Tgt Ion: 95 Resp: 89240  
Ion Ratio Lower Upper  
95 100  
174 97.1 0.0 178.2  
176 93.2 0.0 173.8

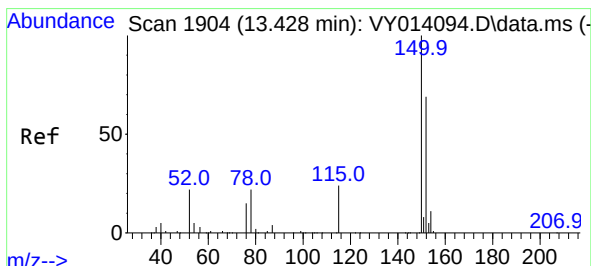
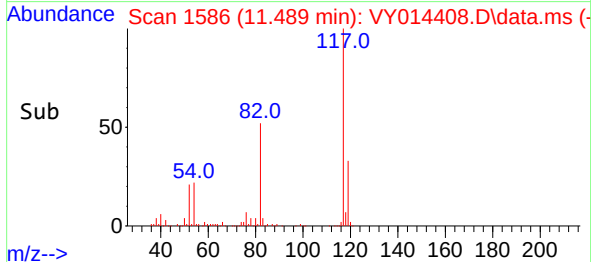
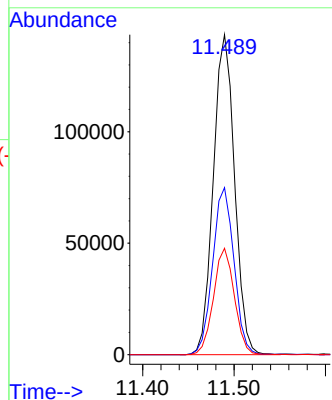
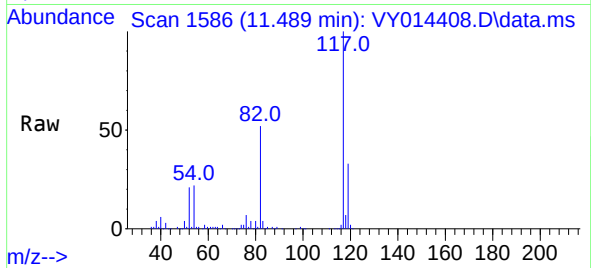




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

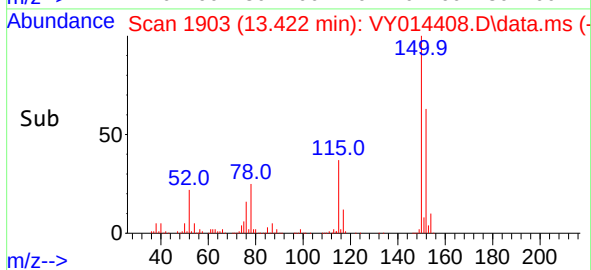
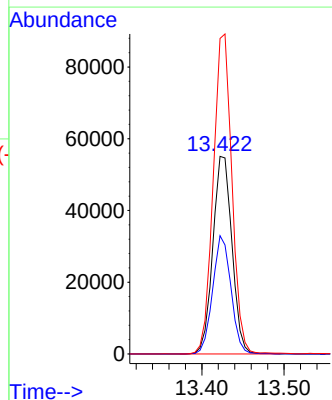
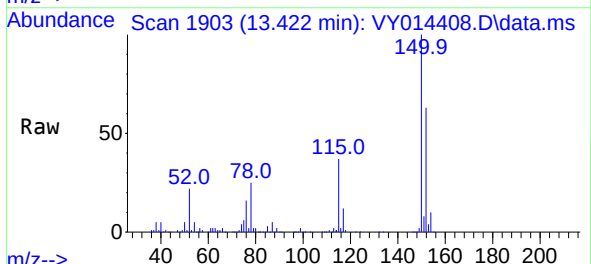
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE

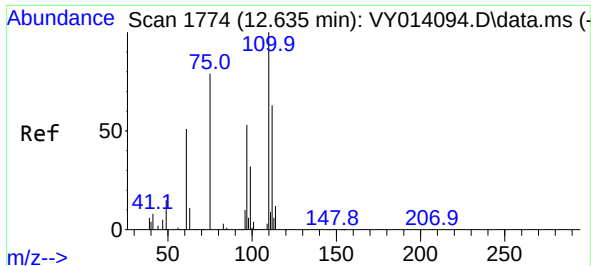
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 231998 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 52.2  | 43.4  | 65.0   |
| 119      | 33.3  | 26.3  | 39.5   |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 89027 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 57.3  | 28.8  | 86.5  |
| 150      | 158.3 | 0.0   | 348.8 |

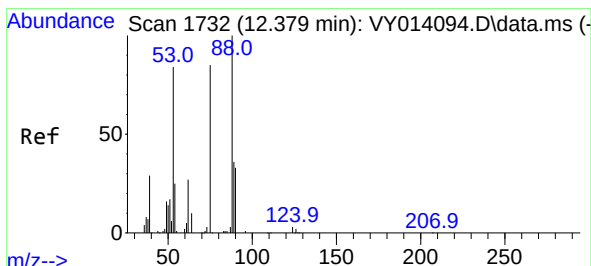
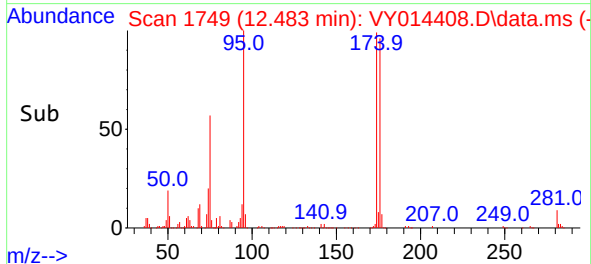
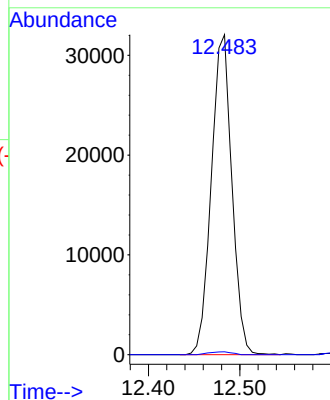
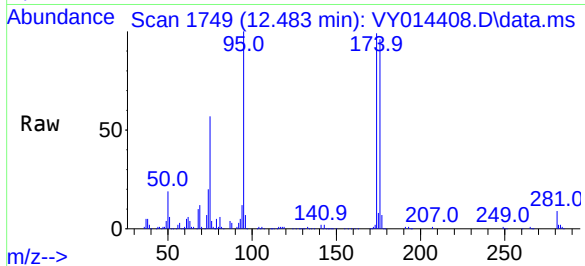




#76  
1,2,3-Trichloropropane  
Concen: 44.802 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW03-0-8-GRAB-6RE

Tgt Ion: 75 Resp: 50034  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 102.000 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY014408.D  
Acq: 23 Jun 2023 15:28

Tgt Ion: 75 Resp: 50034  
Ion Ratio Lower Upper  
75 100  
53 0.2 77.8 116.8#  
89 0.0 37.4 56.0#

