

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY060623\  
 Data File : VY014035.D  
 Acq On : 06 Jun 2023 16:59  
 Operator : KP/MD  
 Sample : 03029-04  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-7

Quant Time: Jun 07 01:40:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060123S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 02 07:00:14 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 38796    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 57945    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 50917    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 18711    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 20810    | 40.520   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 81.040%  |
| 35) Dibromofluoromethane    | 7.716  | 113   | 19013    | 51.631   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 103.260% |
| 50) Toluene-d8              | 10.179 | 98    | 69829    | 49.713   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 99.420%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 17535    | 36.617   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 73.240%  |

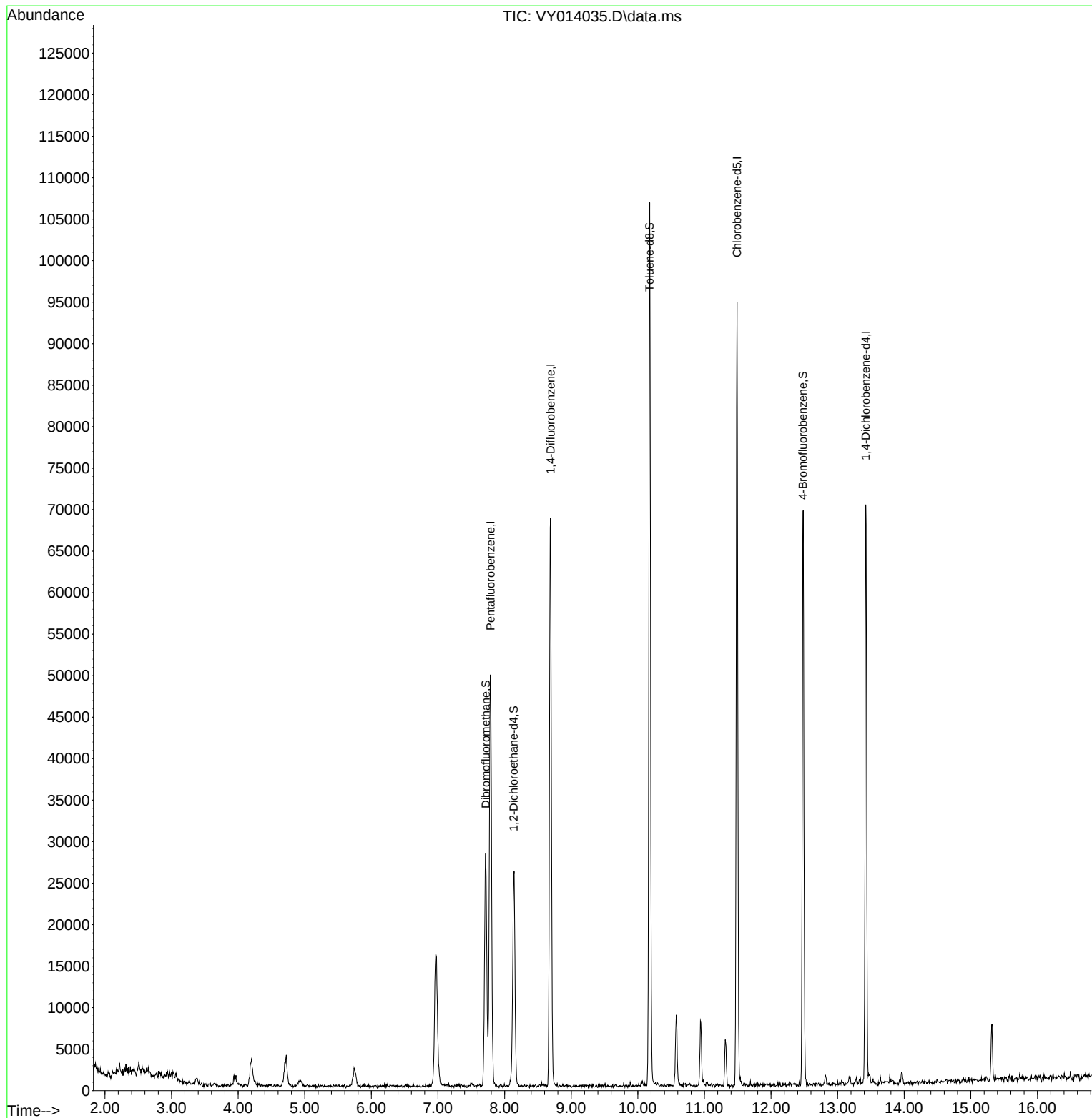
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

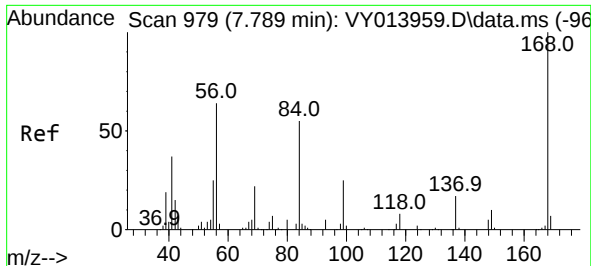
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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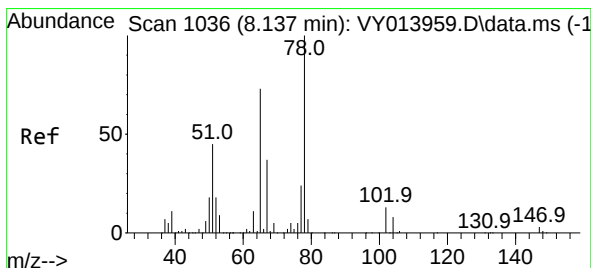
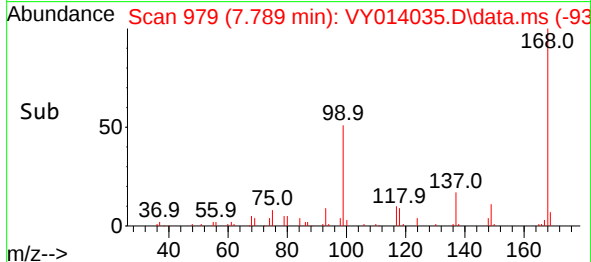
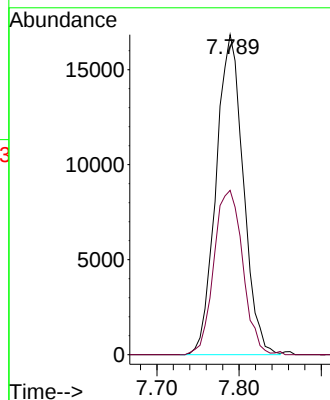
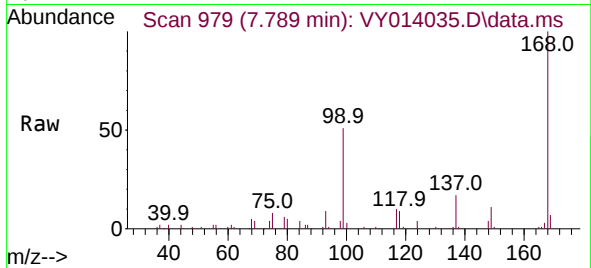




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014035.D  
Acq: 06 Jun 2023 16:59

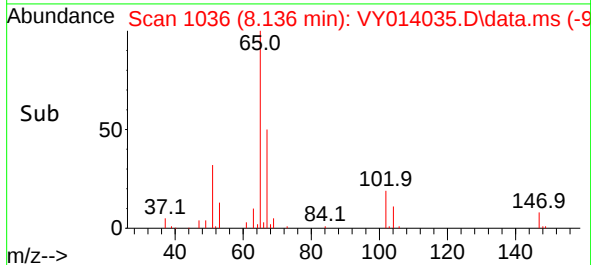
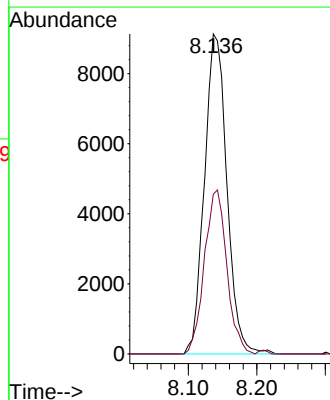
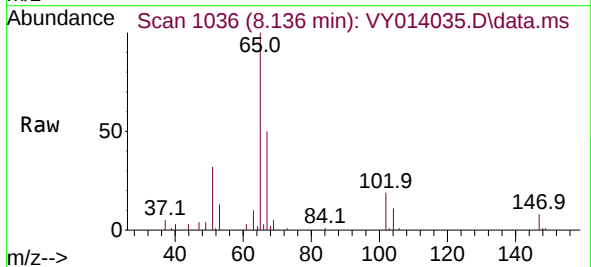
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-7

Tgt Ion:168 Resp: 38796  
Ion Ratio Lower Upper  
168 100  
99 51.3 43.4 65.0



#33  
1,2-Dichloroethane-d4  
Concen: 40.520 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.000 min  
Lab File: VY014035.D  
Acq: 06 Jun 2023 16:59

Tgt Ion: 65 Resp: 20810  
Ion Ratio Lower Upper  
65 100  
67 51.2 0.0 101.8

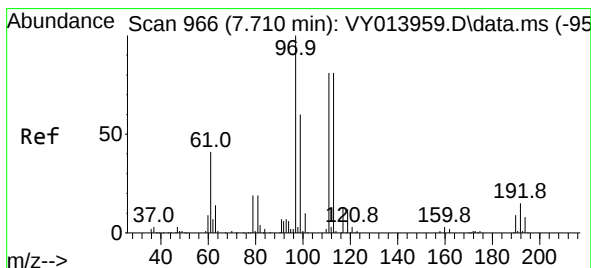
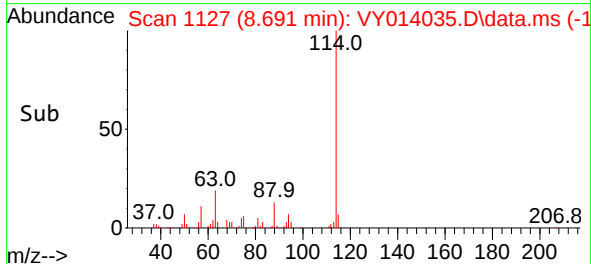
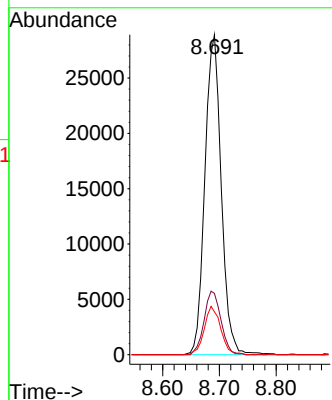
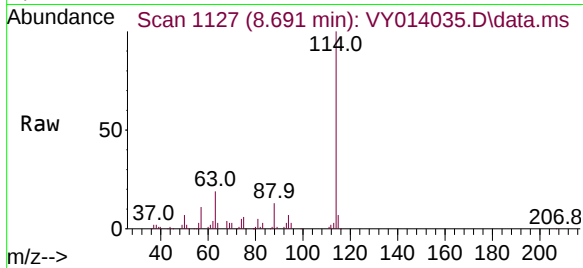




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VY014035.D  
Acq: 06 Jun 2023 16:59

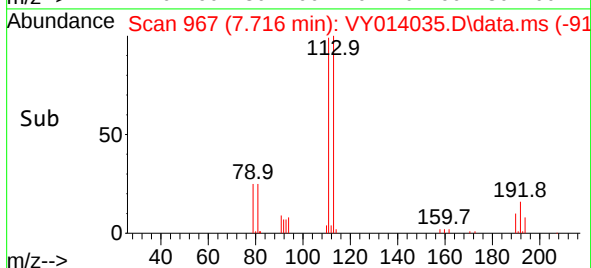
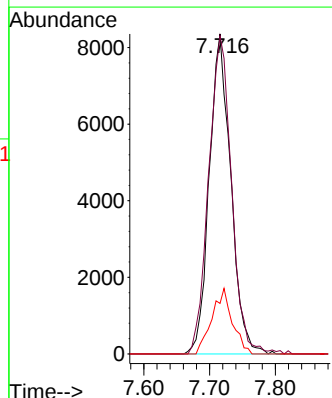
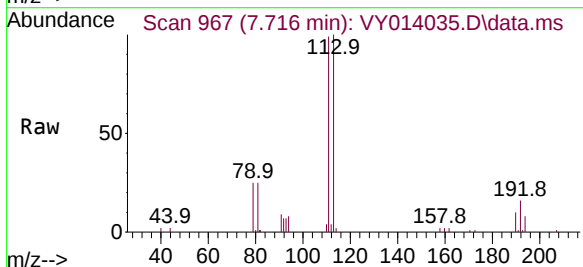
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-7

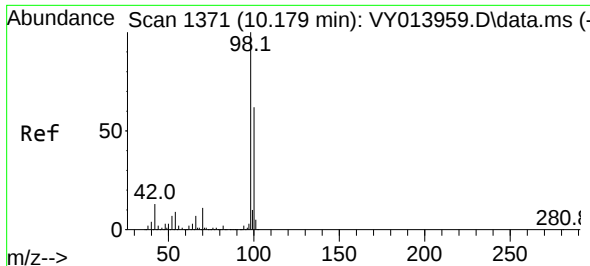
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 57945 |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 19.2  | 0.0   | 42.4  |
| 88       | 13.4  | 0.0   | 30.6  |



#35  
Dibromofluoromethane  
Concen: 51.631 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. 0.006 min  
Lab File: VY014035.D  
Acq: 06 Jun 2023 16:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 19013 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 105.3 | 81.3  | 121.9 |
| 192      | 19.4  | 16.9  | 25.3  |

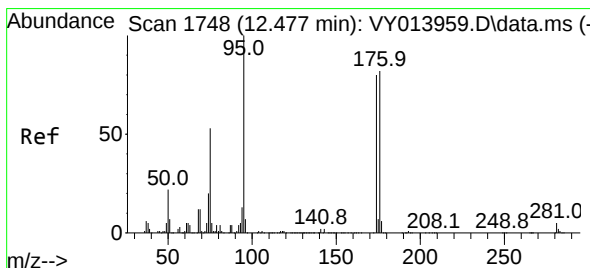
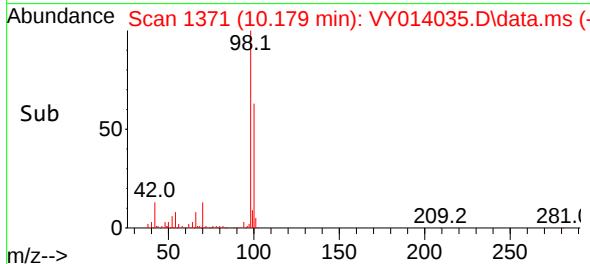
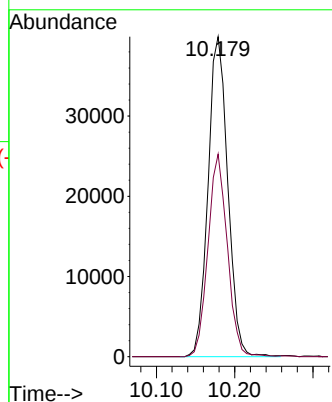
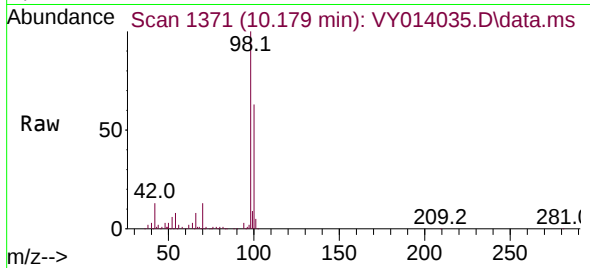




#50  
Toluene-d8  
Concen: 49.713 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY014035.D  
Acq: 06 Jun 2023 16:59

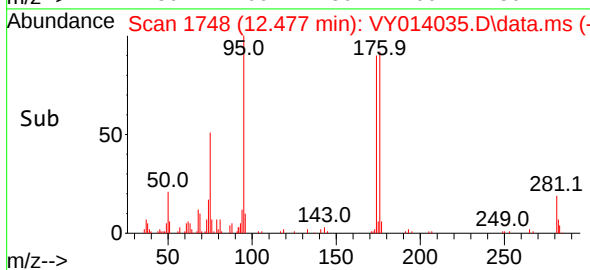
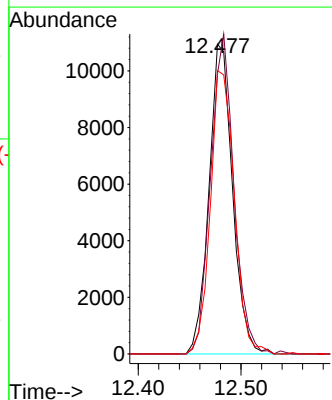
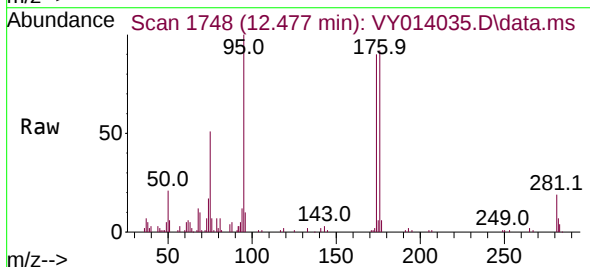
Instrument :  
MSVOA\_Y  
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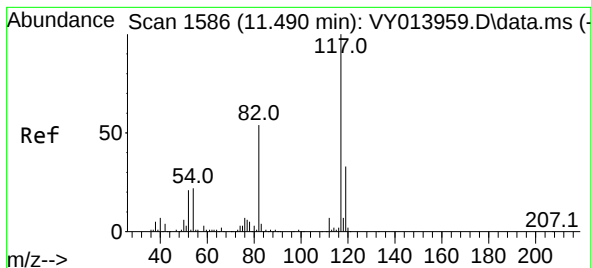
Tgt Ion: 98 Resp: 69829  
Ion Ratio Lower Upper  
98 100  
100 61.9 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 36.617 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VY014035.D  
Acq: 06 Jun 2023 16:59

Tgt Ion: 95 Resp: 17535  
Ion Ratio Lower Upper  
95 100  
174 101.1 0.0 178.2  
176 92.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY014035.D

Acq: 06 Jun 2023 16:59

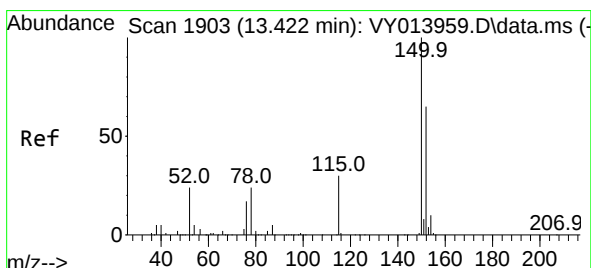
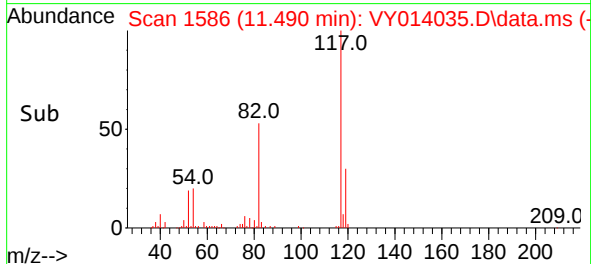
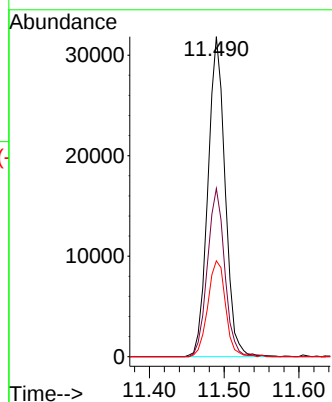
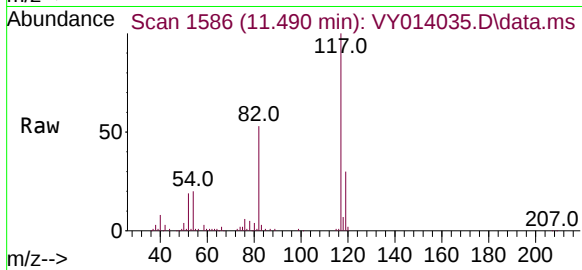
Instrument :

MSVOA\_Y

ClientSampleId :

TP-7

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:117 | Resp: | 50917     |
| Ion Ratio   | Lower | Upper     |
| 117         | 100   |           |
| 82          | 52.6  | 43.4 65.0 |
| 119         | 30.0  | 26.3 39.5 |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY014035.D

Acq: 06 Jun 2023 16:59

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 18711     |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 115         | 55.6  | 28.8 86.5 |
| 150         | 158.6 | 0.0 348.8 |

