

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092722\  
 Data File : VY010693.D  
 Acq On : 27 Sep 2022 13:21  
 Operator : KP/MD  
 Sample : N4781-02  
 Misc : 6.55g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 D22018-(17.5-18)

Quant Time: Sep 28 01:25:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 01:02:44 2022  
 Response via : Initial Calibration

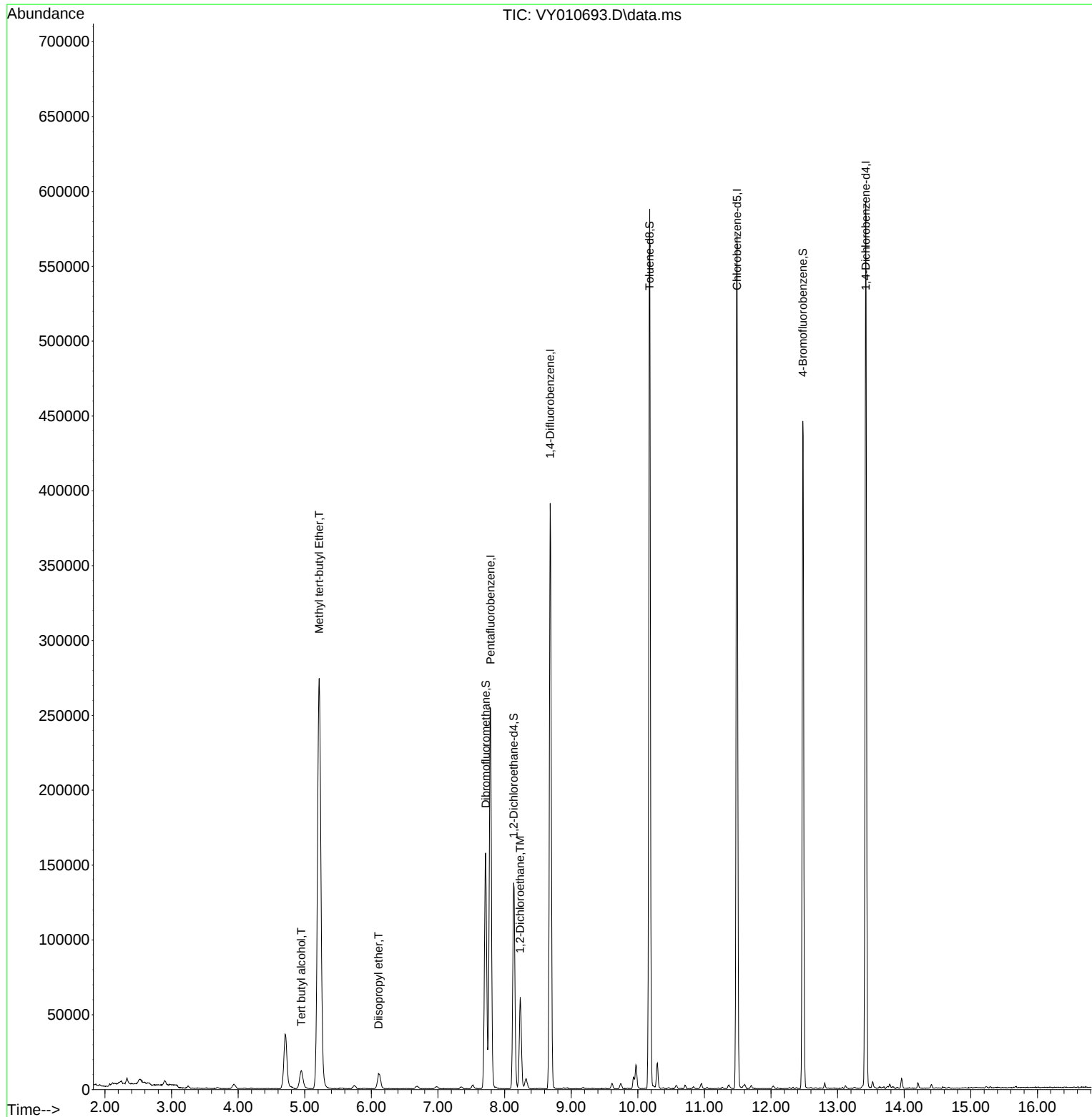
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 7.789  | 168   | 198676   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.685  | 114   | 332719   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.490 | 117   | 305064   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.422 | 152   | 149213   | 50.000   | ug/l   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.137  | 65    | 106605   | 56.099   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =      | 112.200% |
| 35) Dibromofluoromethane    | 7.716  | 113   | 109468   | 51.553   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =      | 103.100% |
| 50) Toluene-d8              | 10.179 | 98    | 377619   | 48.236   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =      | 96.480%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 133868   | 45.733   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =      | 91.460%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
| 11) Tert butyl alcohol      | 4.948  | 59    | 22134    | 124.563  | ug/l # | 93       |
| 19) Methyl tert-butyl Ether | 5.216  | 73    | 475996   | 108.826  | ug/l   | 96       |
| 22) Diisopropyl ether       | 6.106  | 45    | 13025    | 2.609    | ug/l # | 92       |
| 42) 1,2-Dichloroethane      | 8.234  | 62    | 9323     | 4.293    | ug/l   | 96       |
| -----                       |        |       |          |          |        |          |

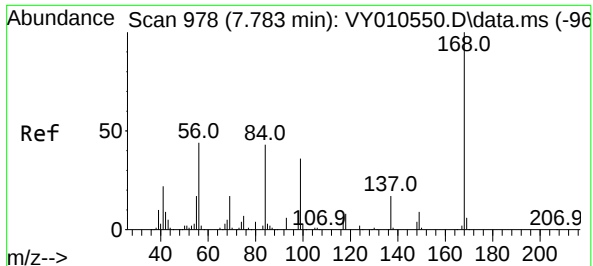
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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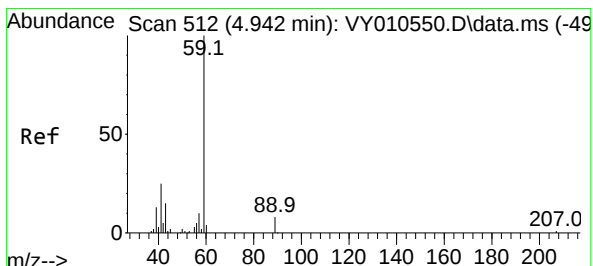
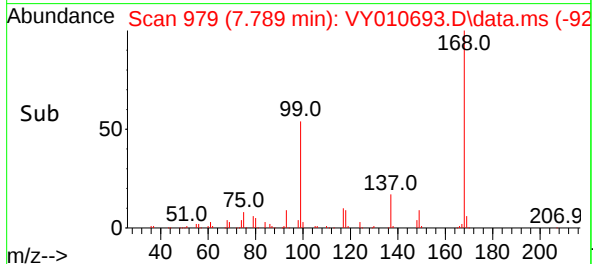
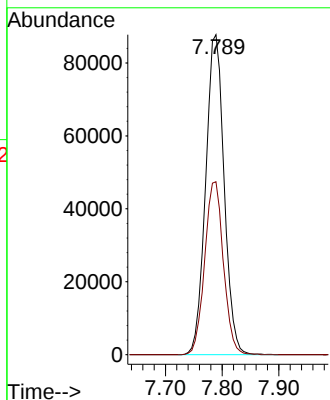
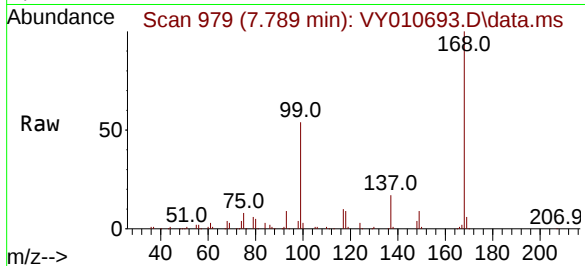




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

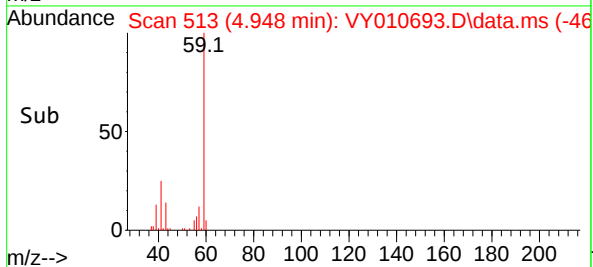
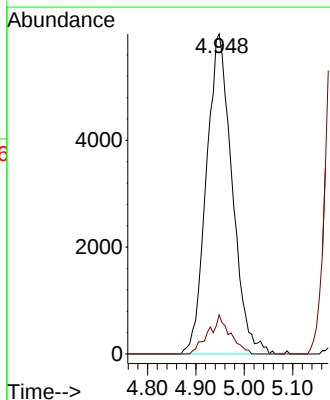
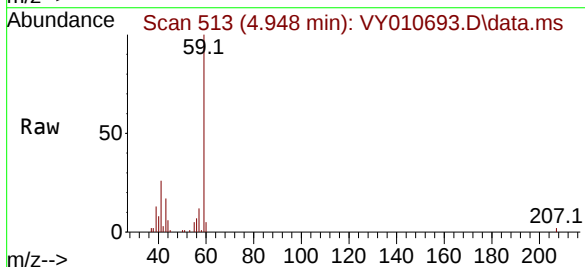
Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22018-(17.5-18)

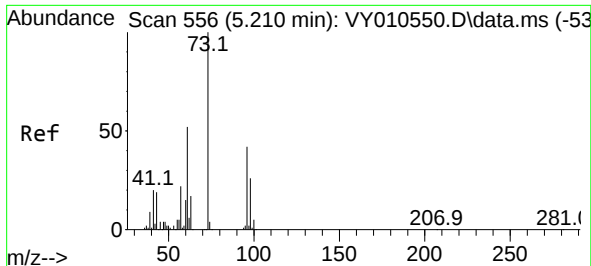
Tgt Ion:168 Resp: 198676  
Ion Ratio Lower Upper  
168 100  
99 54.1 46.9 70.3



#11  
Tert butyl alcohol  
Concen: 124.563 ug/l  
RT: 4.948 min Scan# 513  
Delta R.T. 0.006 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

Tgt Ion: 59 Resp: 22134  
Ion Ratio Lower Upper  
59 100  
57 10.3 6.4 9.6#





#19

Methyl tert-butyl Ether

Concen: 108.826 ug/l

RT: 5.216 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY010693.D

Acq: 27 Sep 2022 13:21

Instrument :

MSVOA\_Y

ClientSampleId :

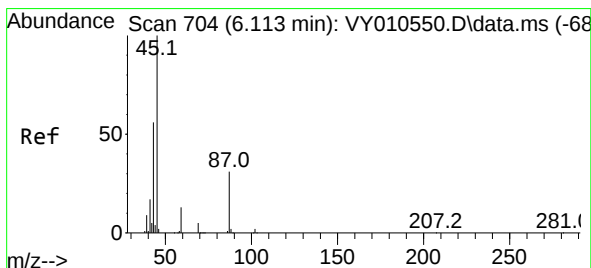
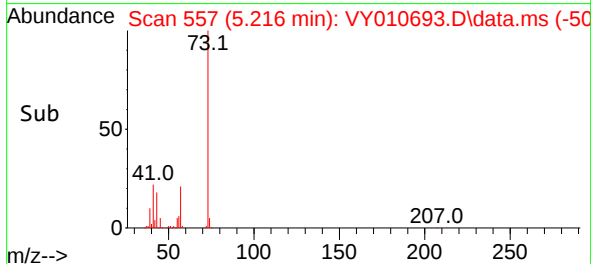
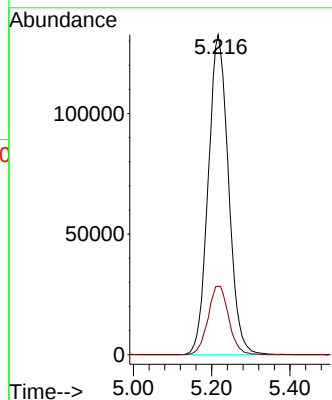
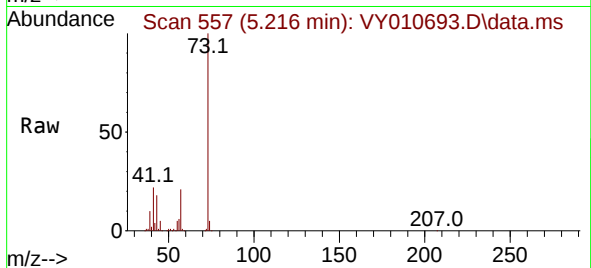
D22018-(17.5-18)

Tgt Ion: 73 Resp: 475996

Ion Ratio Lower Upper

73 100

57 21.4 18.6 27.8



#22

Diisopropyl ether

Concen: 2.609 ug/l

RT: 6.106 min Scan# 703

Delta R.T. -0.007 min

Lab File: VY010693.D

Acq: 27 Sep 2022 13:21

Tgt Ion: 45 Resp: 13025

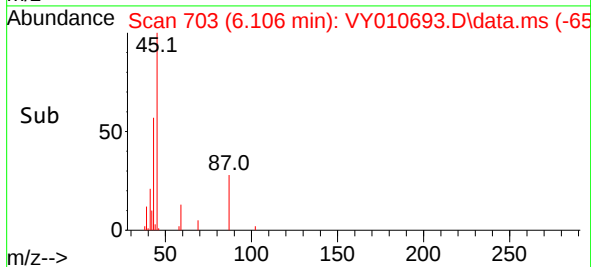
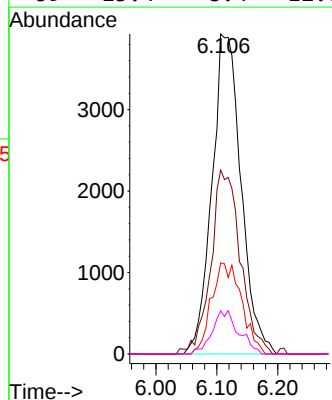
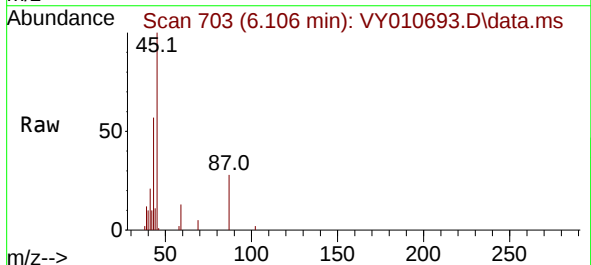
Ion Ratio Lower Upper

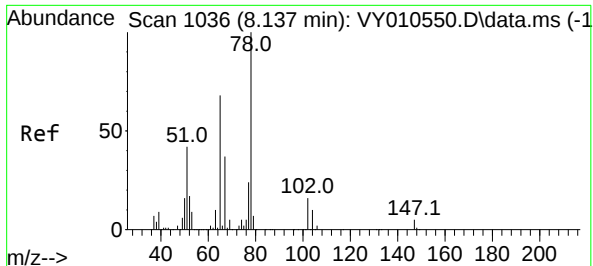
45 100

43 55.8 49.3 73.9

87 28.5 19.2 28.8

59 13.4 8.4 12.6#





#33

1,2-Dichloroethane-d4

Concen: 56.099 ug/l

RT: 8.137 min Scan# 1103

Delta R.T. -0.000 min

Lab File: VY010693.D

Acq: 27 Sep 2022 13:21

Instrument :

MSVOA\_Y

ClientSampleId :

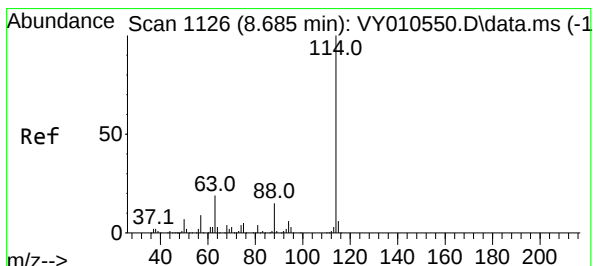
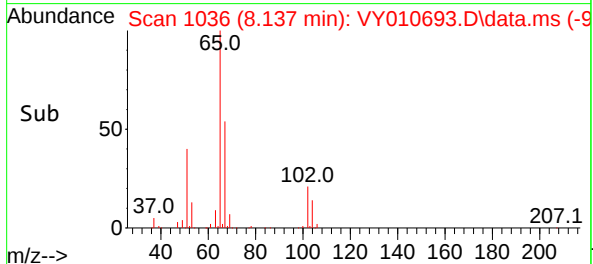
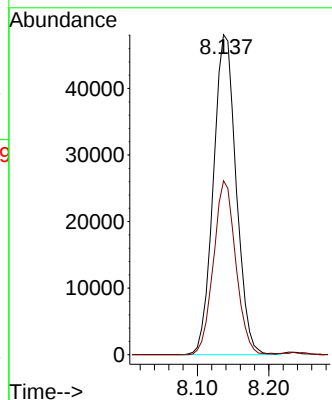
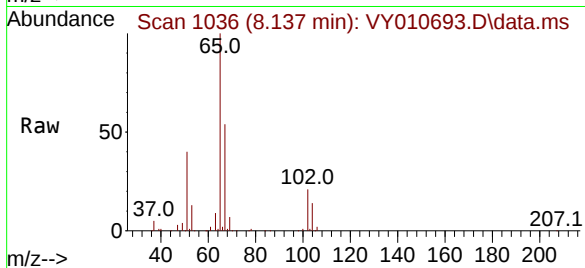
D22018-(17.5-18)

Tgt Ion: 65 Resp: 106605

Ion Ratio Lower Upper

65 100

67 53.1 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: VY010693.D

Acq: 27 Sep 2022 13:21

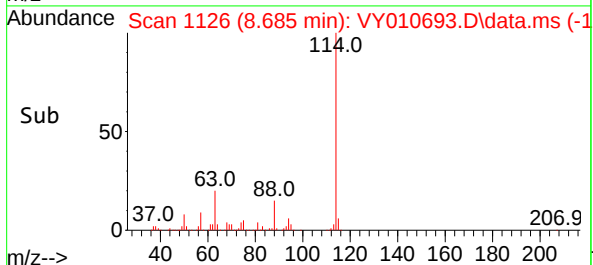
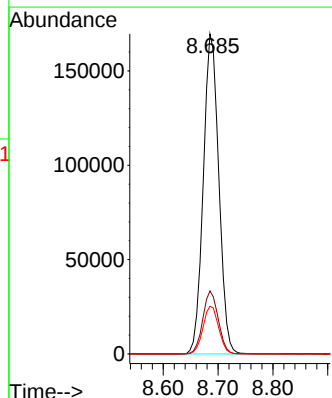
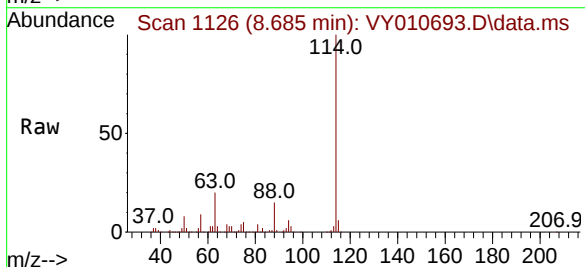
Tgt Ion: 114 Resp: 332719

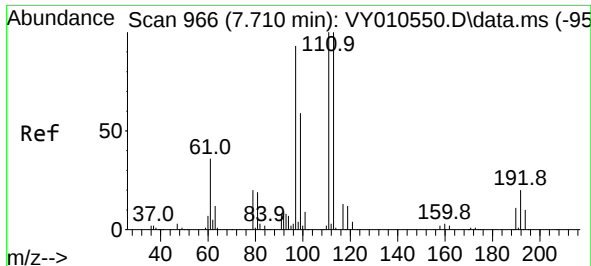
Ion Ratio Lower Upper

114 100

63 19.7 0.0 43.2

88 14.9 0.0 31.8

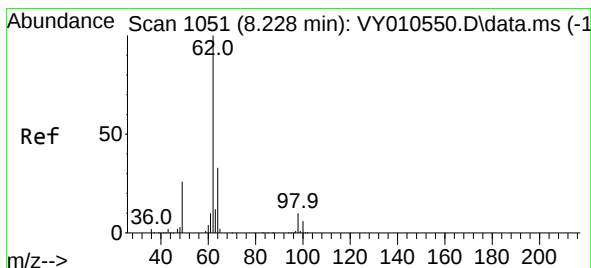
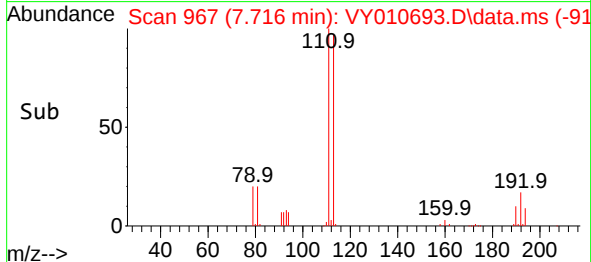
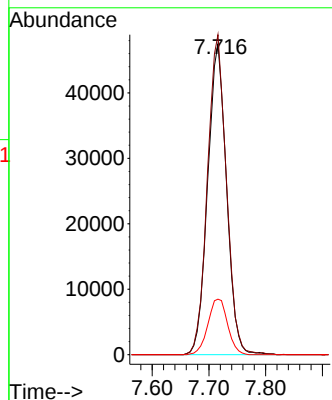
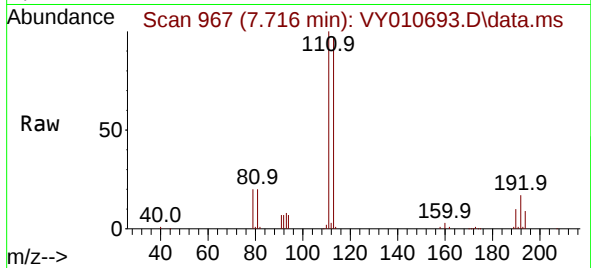




#35  
Dibromofluoromethane  
Concen: 51.553 ug/l  
RT: 7.716 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

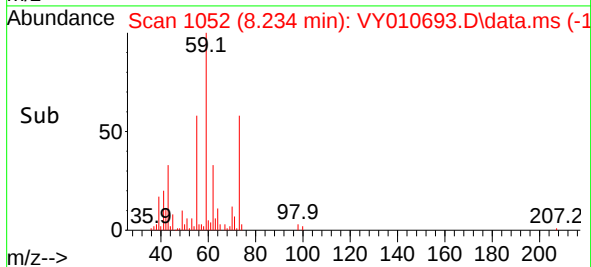
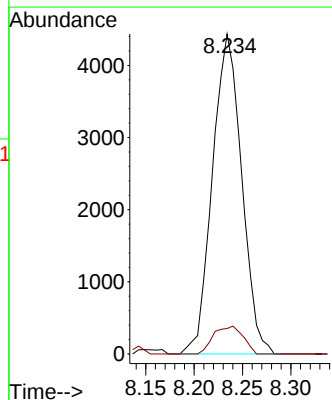
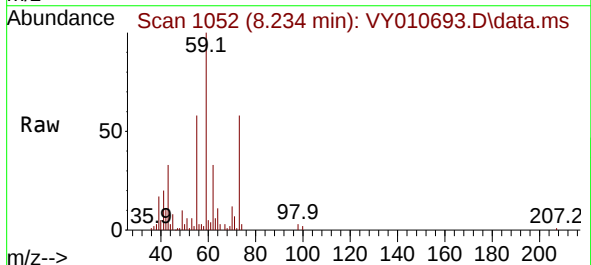
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D22018-(17.5-18)

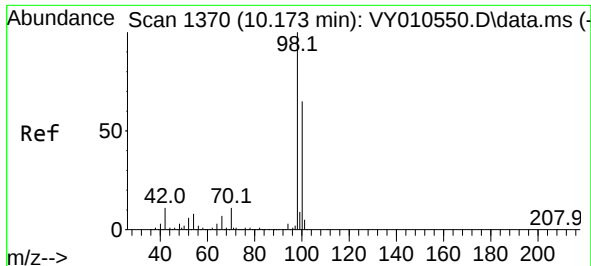
Tgt Ion:113 Resp: 109468  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.6 124.0  
192 18.7 17.6 26.4



#42  
1,2-Dichloroethane  
Concen: 4.293 ug/l  
RT: 8.234 min Scan# 1052  
Delta R.T. 0.006 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

Tgt Ion: 62 Resp: 9323  
Ion Ratio Lower Upper  
62 100  
98 8.8 0.0 14.8

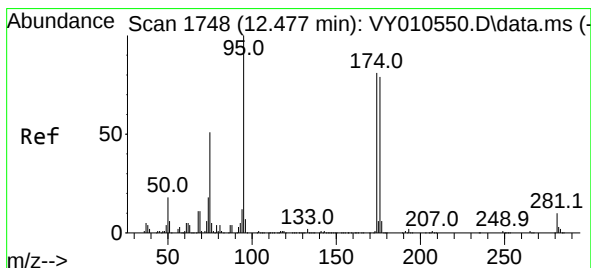
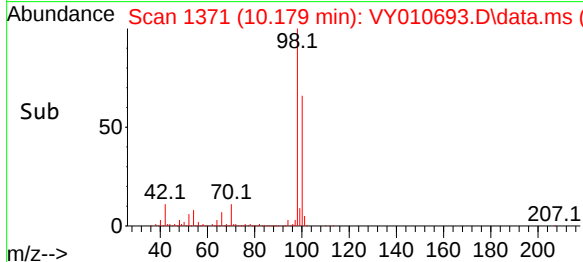
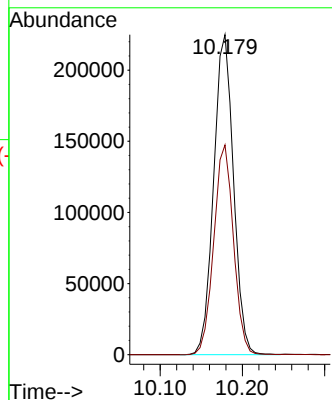
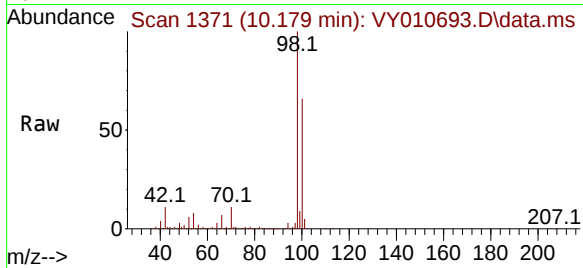




#50  
Toluene-d8  
Concen: 48.236 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

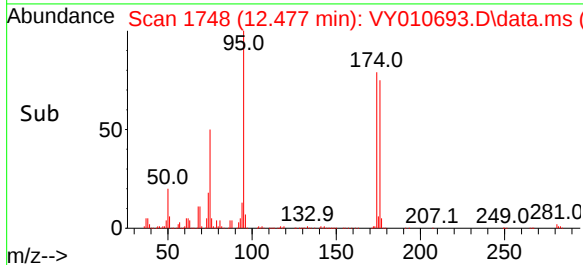
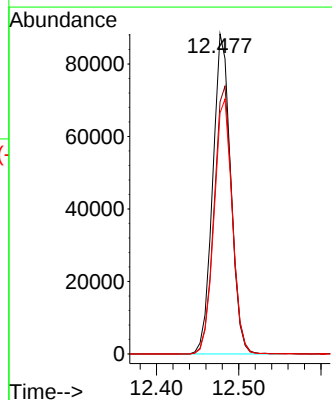
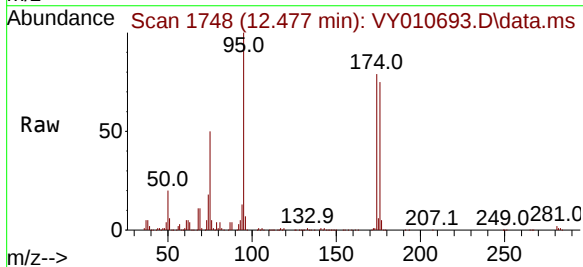
Instrument :  
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D22018-(17.5-18)

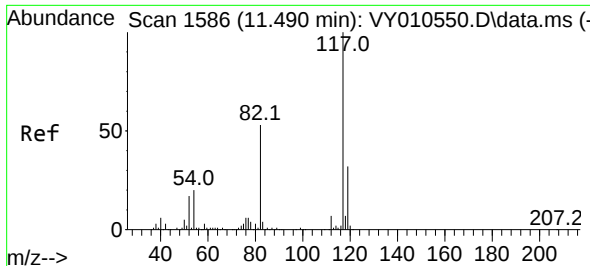
Tgt Ion: 98 Resp: 377619  
Ion Ratio Lower Upper  
98 100  
100 65.1 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 45.733 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

Tgt Ion: 95 Resp: 133868  
Ion Ratio Lower Upper  
95 100  
174 84.5 0.0 177.0  
176 80.7 0.0 175.8

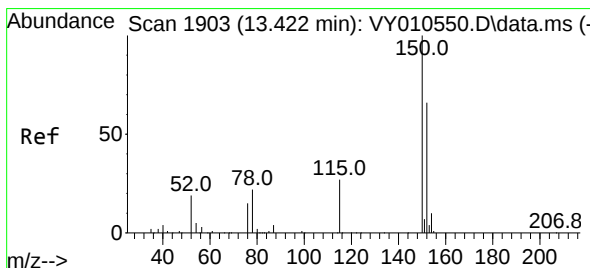
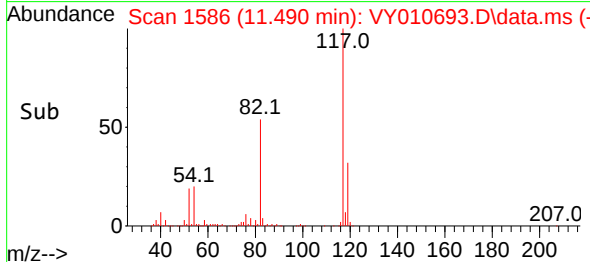
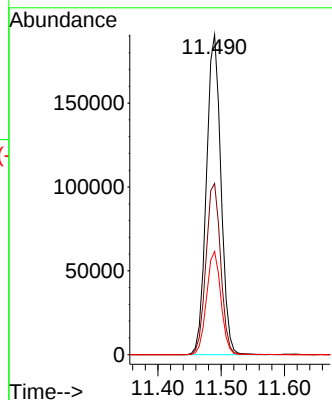
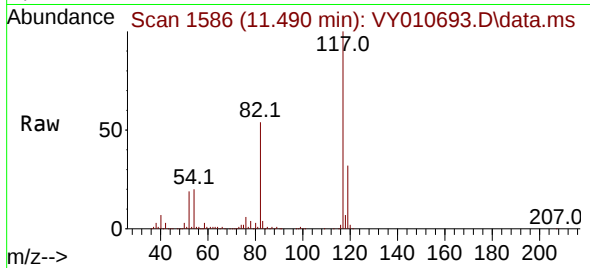




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

Instrument :  
MSVOA\_Y  
ClientSampleId :  
D22018-(17.5-18)

Tgt Ion:117 Resp: 305064  
Ion Ratio Lower Upper  
117 100  
82 53.5 43.0 64.4  
119 32.3 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY010693.D  
Acq: 27 Sep 2022 13:21

Tgt Ion:152 Resp: 149213  
Ion Ratio Lower Upper  
152 100  
115 58.6 28.2 84.7  
150 159.3 0.0 347.6

