

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070623\  
 Data File : VX036443.D  
 Acq On : 06 Jul 2023 18:39  
 Operator : JC/MD  
 Sample : 03500-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-6

Quant Time: Jul 07 01:52:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.556  | 168  | 168755   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 283158   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 256621   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 118363   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 5.958  | 65    | 107939   | 44.622   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 89.240%  |
| 35) Dibromofluoromethane    | 5.385  | 113   | 87464    | 46.846   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 93.700%  |
| 50) Toluene-d8              | 8.647  | 98    | 345952   | 49.610   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 99.220%  |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 130504   | 53.130   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 106.260% |

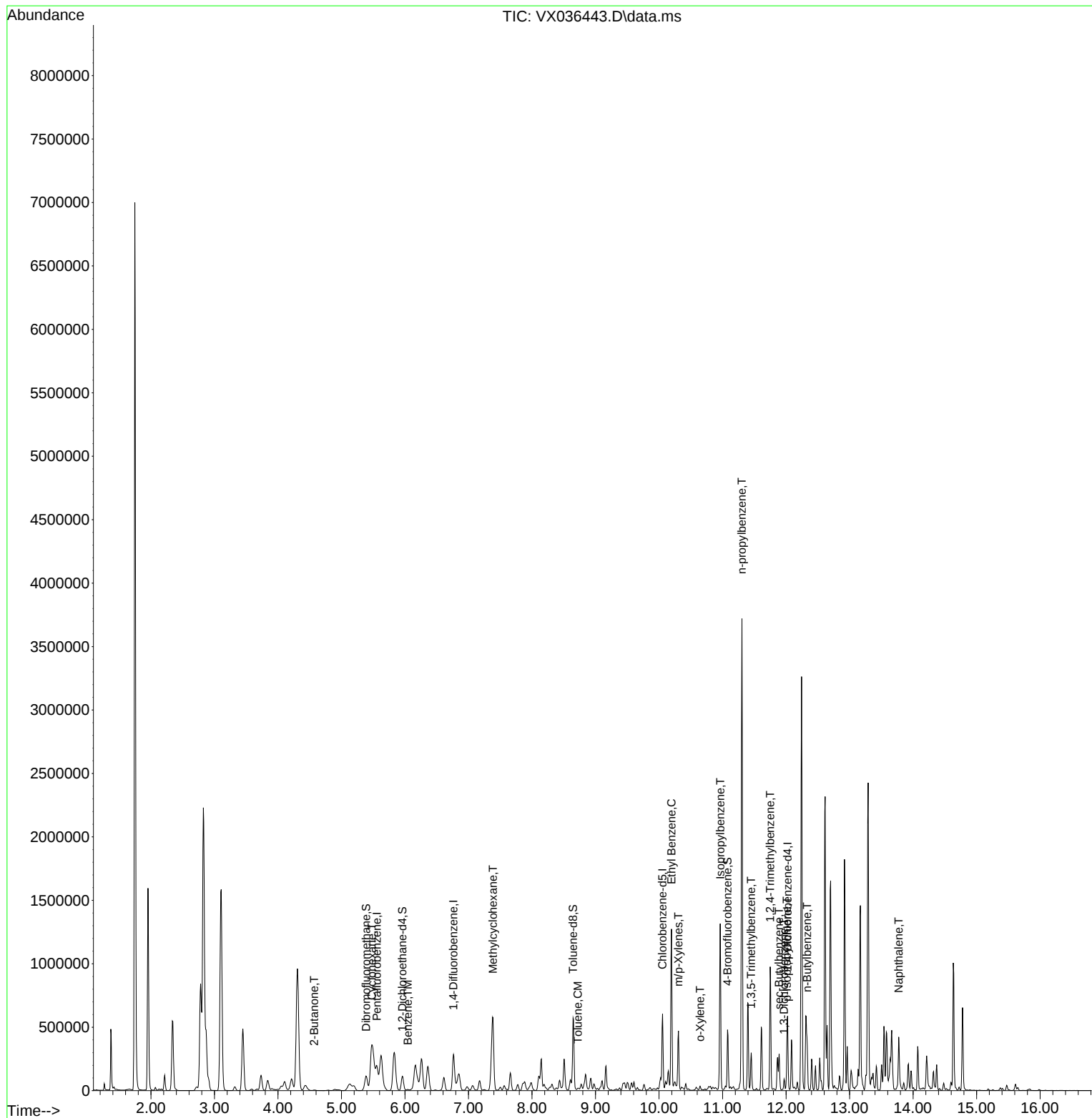
|                            |        |     |         |         |        |     |
|----------------------------|--------|-----|---------|---------|--------|-----|
| Target Compounds           |        |     |         | Qvalue  |        |     |
| 25) 2-Butanone             | 4.568  | 43  | 7356    | 4.952   | ug/l # | 90  |
| 31) Cyclohexane            | 5.477  | 56  | 261713  | 84.427  | ug/l   | 95  |
| 39) Methylcyclohexane      | 7.385  | 83  | 254684  | 76.403  | ug/l   | 96  |
| 40) Benzene                | 6.044  | 78  | 9649    | 1.241   | ug/l   | 92  |
| 52) Toluene                | 8.720  | 92  | 5602    | 1.137   | ug/l   | 98  |
| 67) Ethyl Benzene          | 10.195 | 91  | 702430  | 73.243  | ug/l   | 99  |
| 68) m/p-Xylenes            | 10.305 | 106 | 100612  | 27.002  | ug/l   | 96  |
| 69) o-Xylene               | 10.646 | 106 | 2983    | 0.829   | ug/l   | 100 |
| 73) Isopropylbenzene       | 10.963 | 105 | 641190  | 71.883  | ug/l   | 98  |
| 78) n-propylbenzene        | 11.305 | 91  | 2167582 | 208.075 | ug/l   | 98  |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 119485  | 15.817  | ug/l   | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 408793  | 54.699  | ug/l   | 94  |
| 85) sec-Butylbenzene       | 11.890 | 105 | 144235  | 15.727  | ug/l   | 98  |
| 86) p-Isopropyltoluene     | 12.012 | 119 | 25694   | 3.338   | ug/l   | 95  |
| 87) 1,3-Dichlorobenzene    | 11.969 | 146 | 1315    | 0.326   | ug/l   | 97  |
| 89) n-Butylbenzene         | 12.329 | 91  | 192962  | 28.170  | ug/l # | 67  |
| 95) Naphthalene            | 13.774 | 128 | 255778  | 31.656  | ug/l   | 97  |

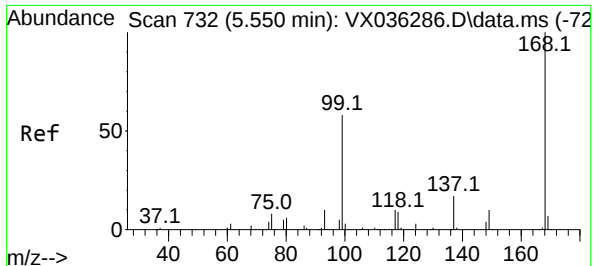
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 07 01:52:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 15:03:28 2023  
Response via : Initial Calibration

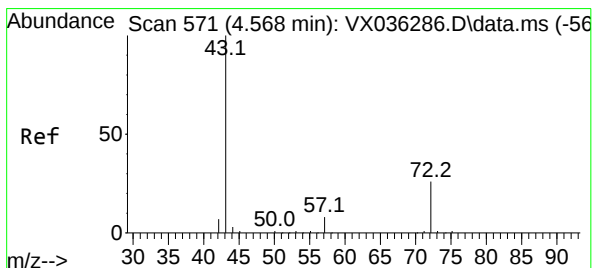
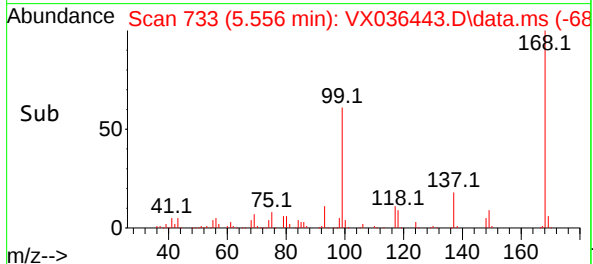
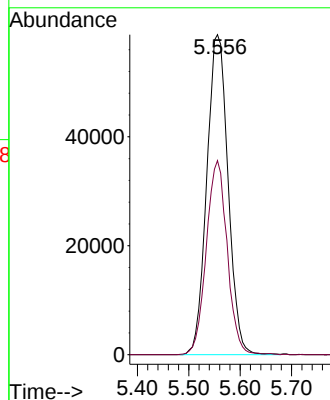
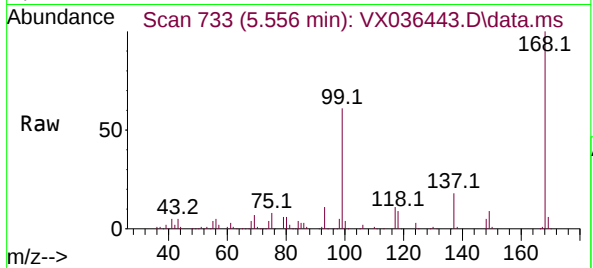




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 713  
Delta R.T. 0.007 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

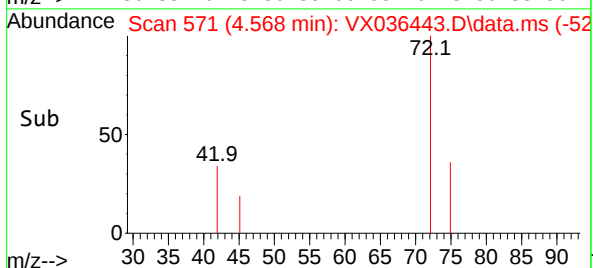
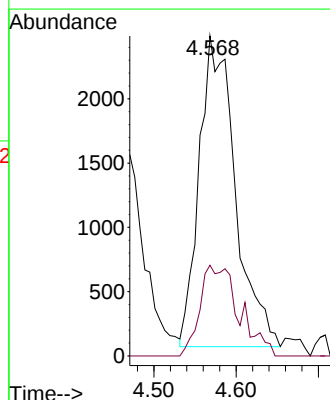
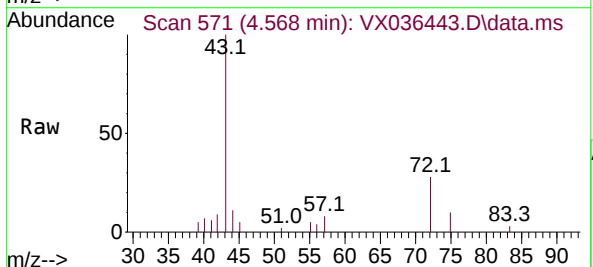
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-6

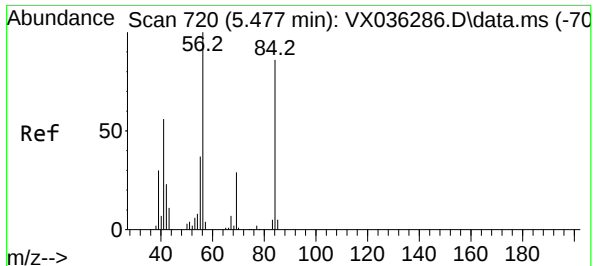
Tgt Ion:168 Resp: 168755  
Ion Ratio Lower Upper  
168 100  
99 60.6 56.6 85.0



#25  
2-Butanone  
Concen: 4.952 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Tgt Ion: 43 Resp: 7356  
Ion Ratio Lower Upper  
43 100  
72 29.2 19.4 29.2#

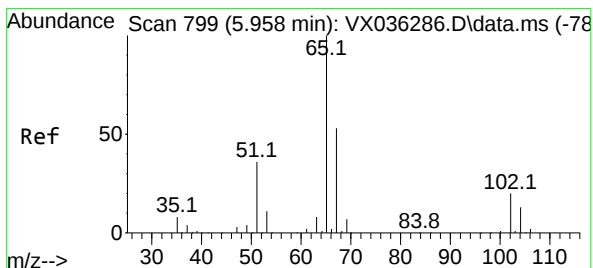
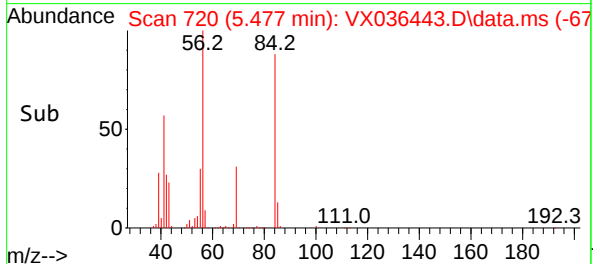
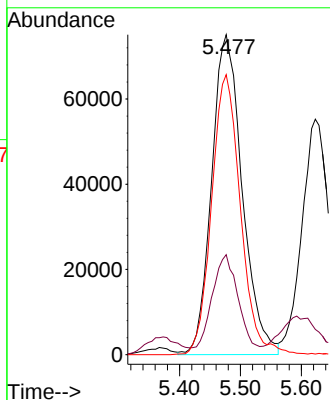
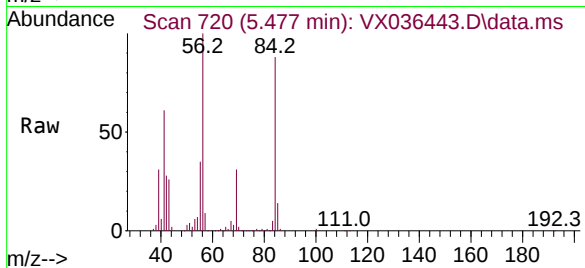




#31  
Cyclohexane  
Concen: 84.427 ug/l  
RT: 5.477 min Scan# 720  
Delta R.T. 0.007 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

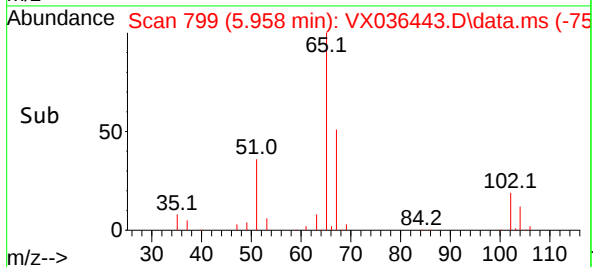
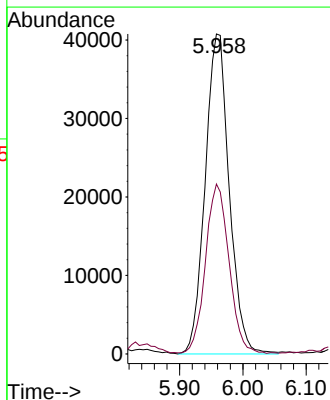
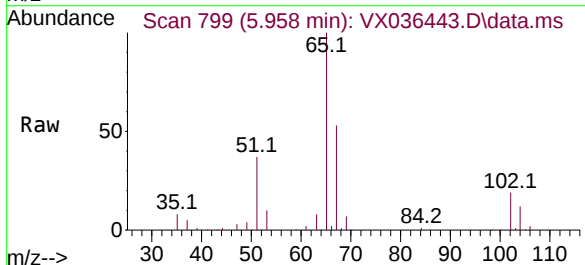
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-6

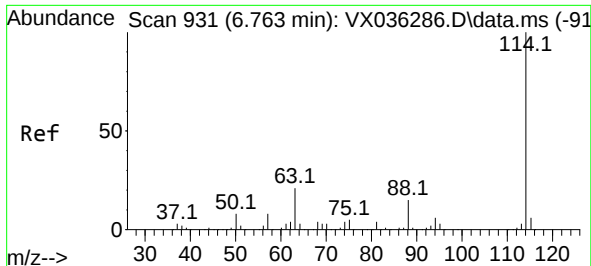
Tgt Ion: 56 Resp: 261713  
Ion Ratio Lower Upper  
56 100  
69 27.9 23.4 35.2  
84 88.0 65.9 98.9



#33  
1,2-Dichloroethane-d4  
Concen: 44.622 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Tgt Ion: 65 Resp: 107939  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 100.2

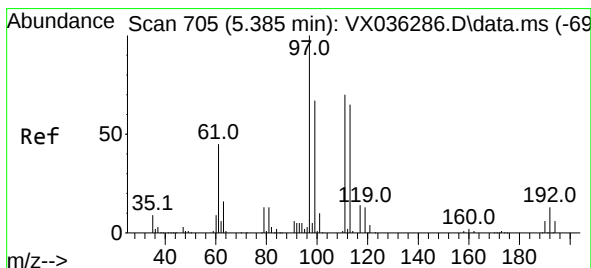
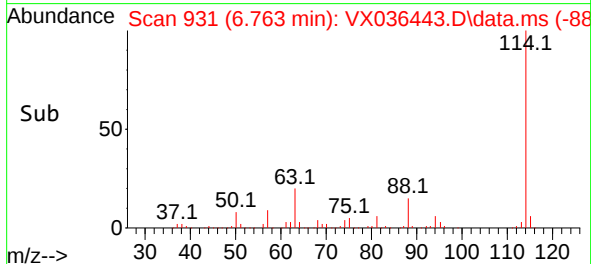
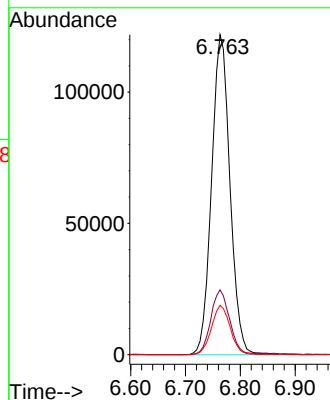
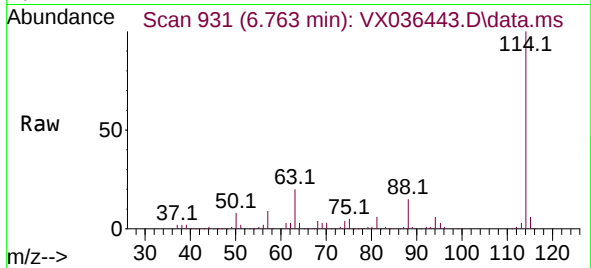




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

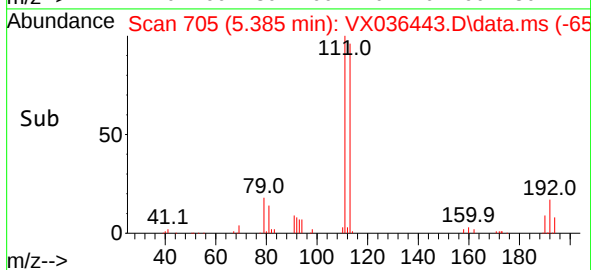
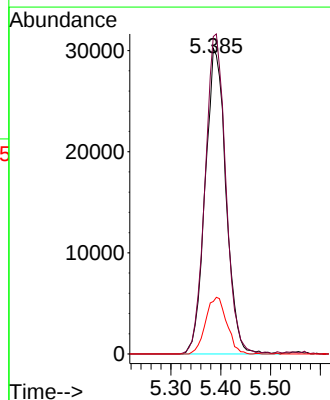
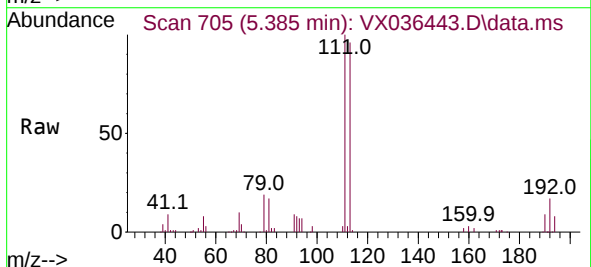
Instrument :  
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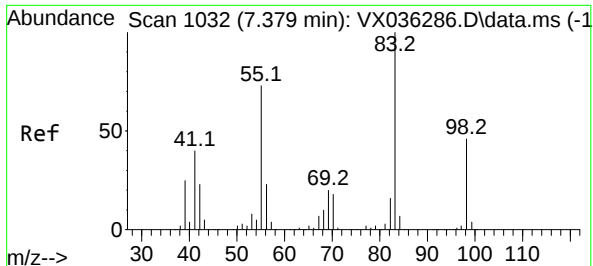
Tgt Ion:114 Resp: 283158  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 45.0  
88 15.4 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.846 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Tgt Ion:113 Resp: 87464  
Ion Ratio Lower Upper  
113 100  
111 104.5 82.9 124.3  
192 18.8 13.3 19.9





#39

Methylcyclohexane

Concen: 76.403 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. 0.007 min

Lab File: VX036443.D

Acq: 06 Jul 2023 18:39

Instrument :

MSVOA\_X

ClientSampleId :

MW-6

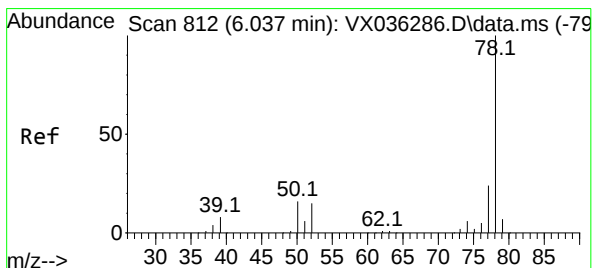
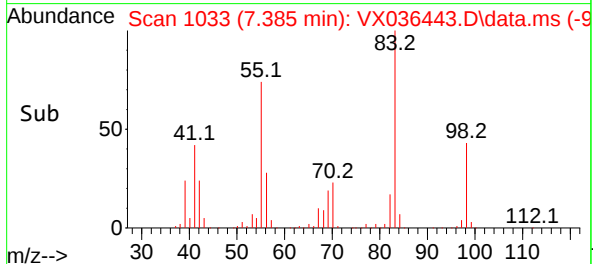
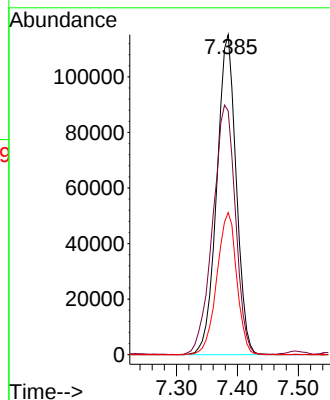
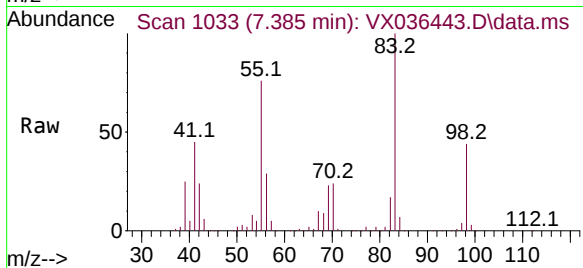
Tgt Ion: 83 Resp: 254684

Ion Ratio Lower Upper

83 100

55 76.1 64.6 97.0

98 44.4 36.7 55.1



#40

Benzene

Concen: 1.241 ug/l

RT: 6.044 min Scan# 813

Delta R.T. 0.007 min

Lab File: VX036443.D

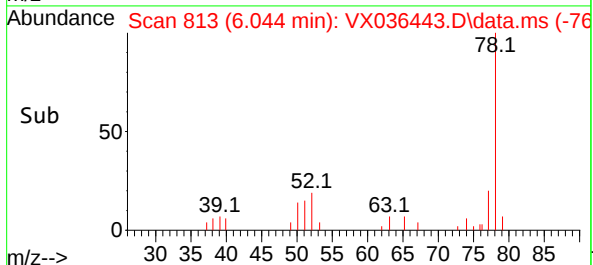
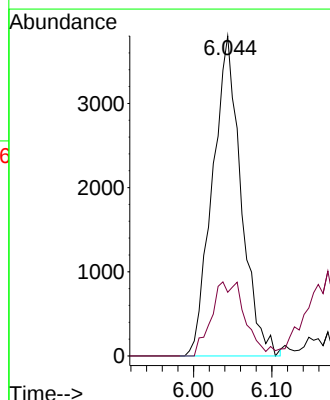
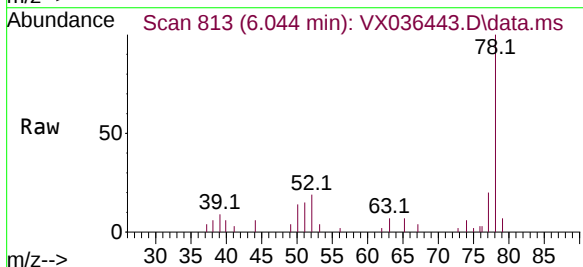
Acq: 06 Jul 2023 18:39

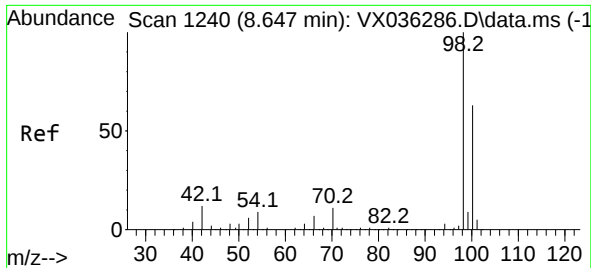
Tgt Ion: 78 Resp: 9649

Ion Ratio Lower Upper

78 100

77 19.9 19.3 28.9

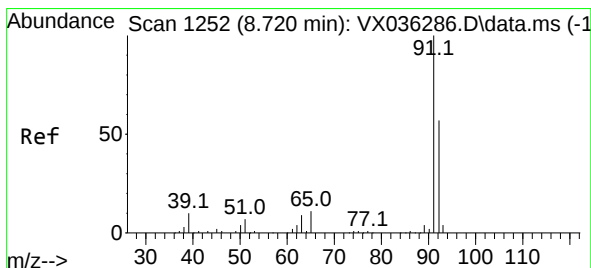
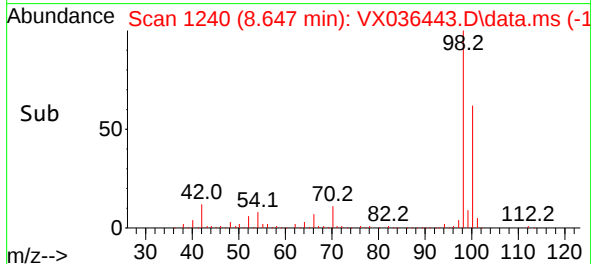
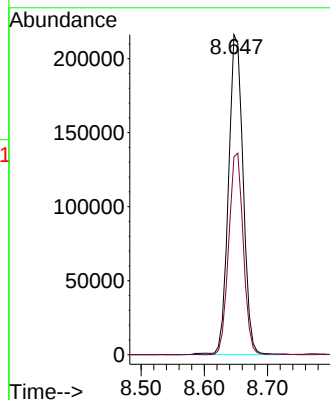
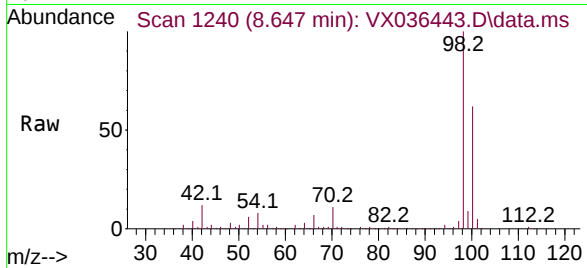




#50  
Toluene-d8  
Concen: 49.610 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

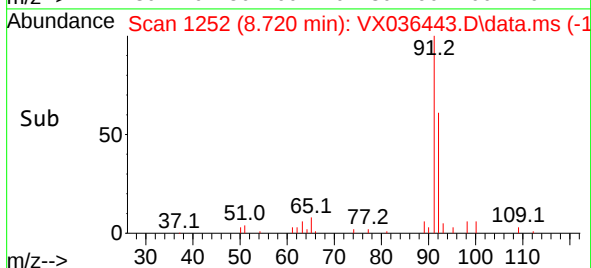
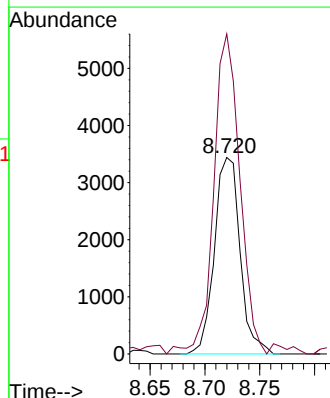
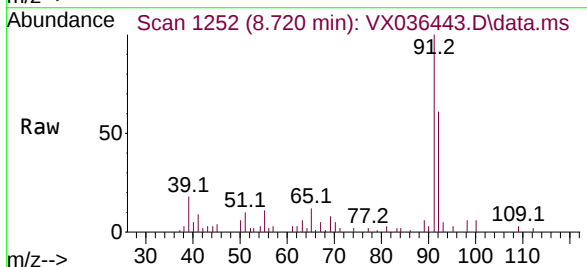
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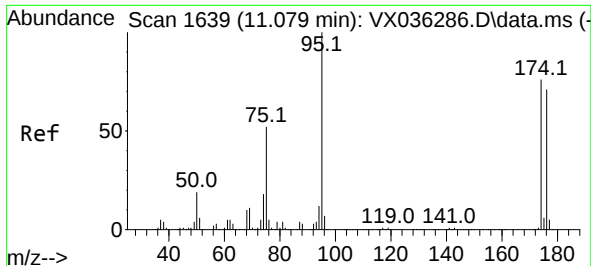
Tgt Ion: 98 Resp: 345952  
Ion Ratio Lower Upper  
98 100  
100 63.0 53.1 79.7



#52  
Toluene  
Concen: 1.137 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Tgt Ion: 92 Resp: 5602  
Ion Ratio Lower Upper  
92 100  
91 165.4 134.2 201.2





#62

4-Bromofluorobenzene

Concen: 53.130 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX036443.D

Acq: 06 Jul 2023 18:39

Instrument :

MSVOA\_X

ClientSampleId :

MW-6

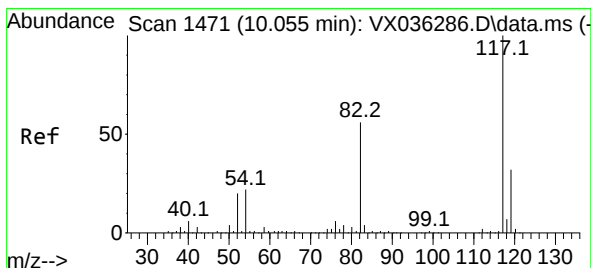
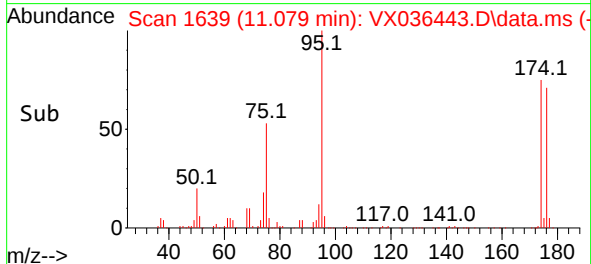
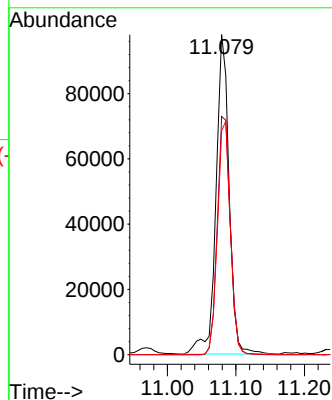
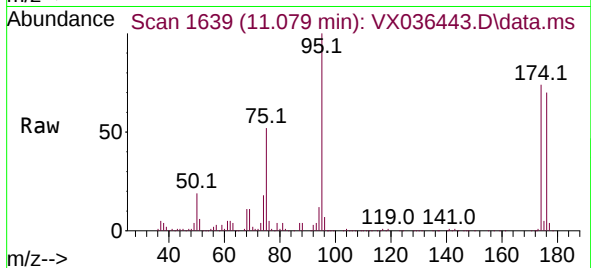
Tgt Ion: 95 Resp: 130504

Ion Ratio Lower Upper

95 100

174 73.9 0.0 135.6

176 71.4 0.0 131.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX036443.D

Acq: 06 Jul 2023 18:39

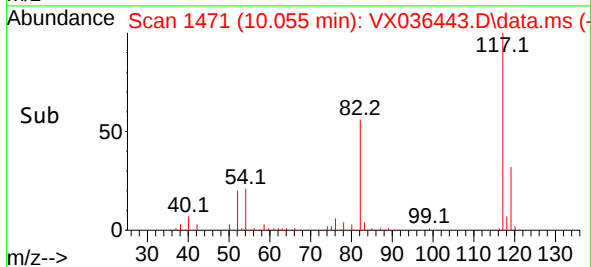
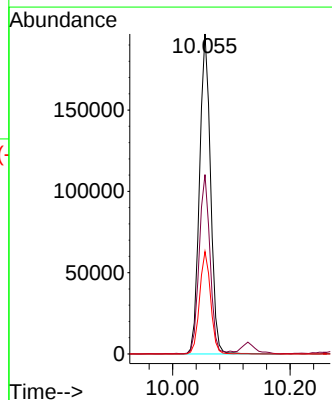
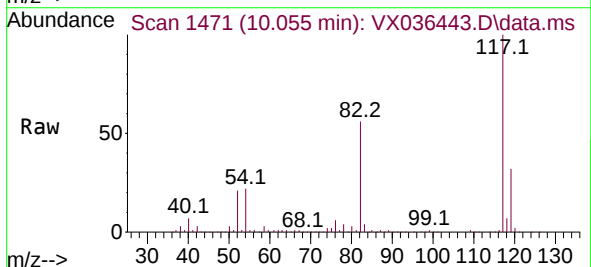
Tgt Ion: 117 Resp: 256621

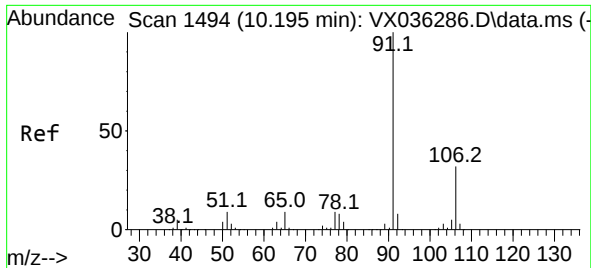
Ion Ratio Lower Upper

117 100

82 56.0 46.2 69.4

119 32.0 25.5 38.3

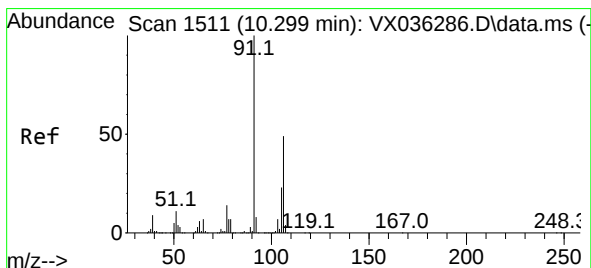
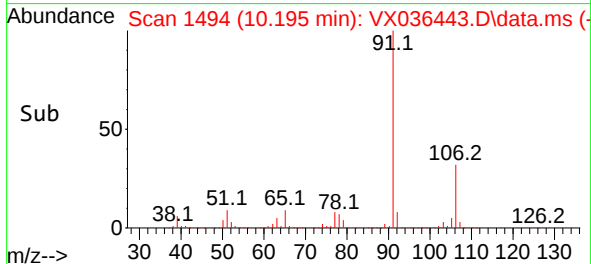
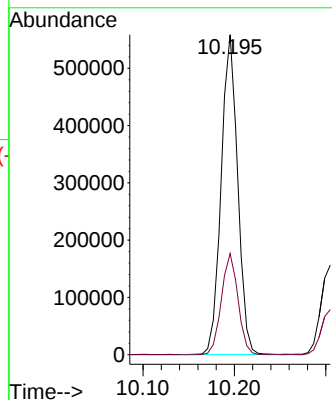
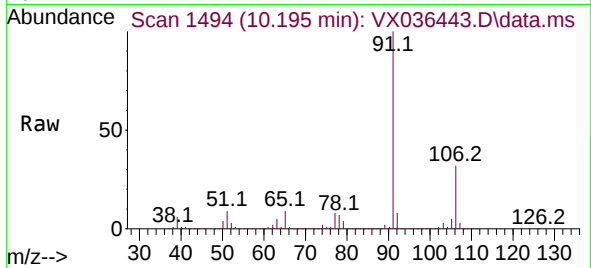




#67  
Ethyl Benzene  
Concen: 73.243 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

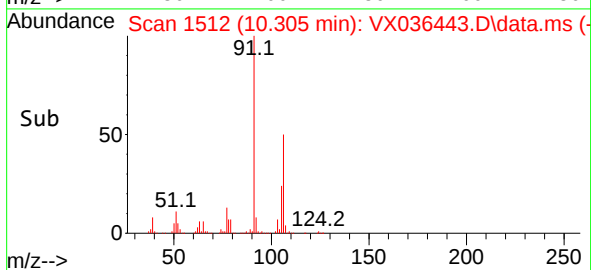
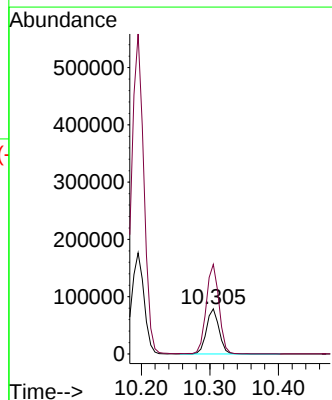
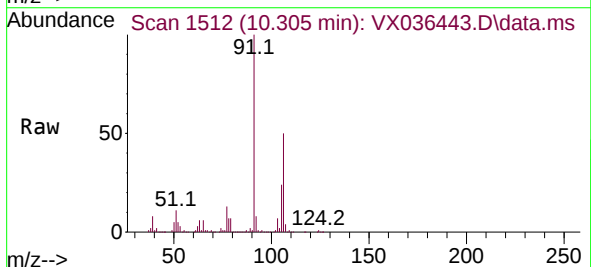
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-6

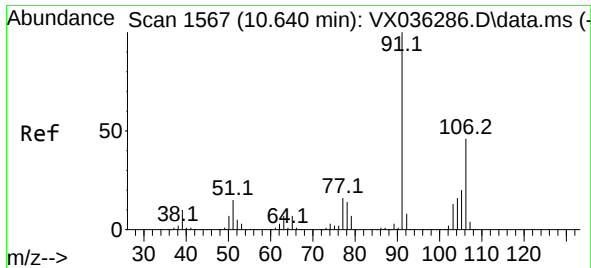
Tgt Ion: 91 Resp: 702430  
Ion Ratio Lower Upper  
91 100  
106 31.6 24.9 37.3



#68  
m/p-Xylenes  
Concen: 27.002 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.006 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Tgt Ion: 106 Resp: 100612  
Ion Ratio Lower Upper  
106 100  
91 201.0 165.5 248.3

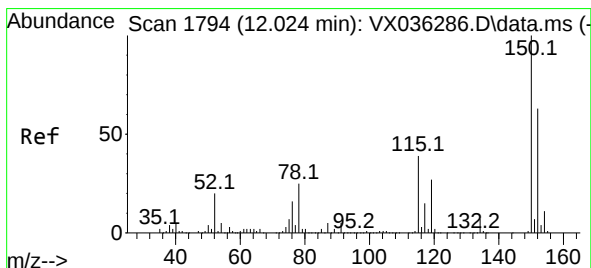
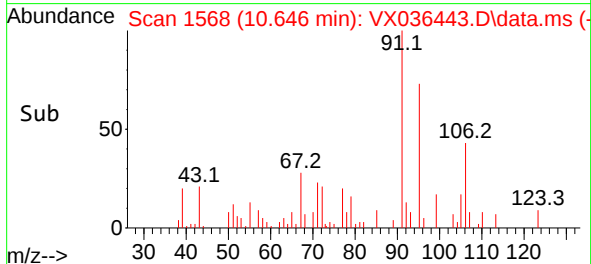
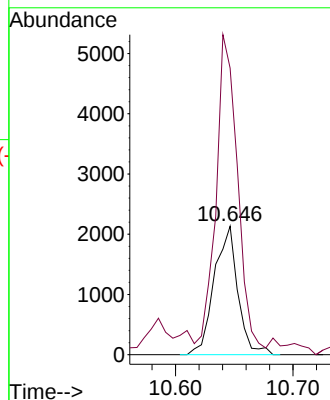
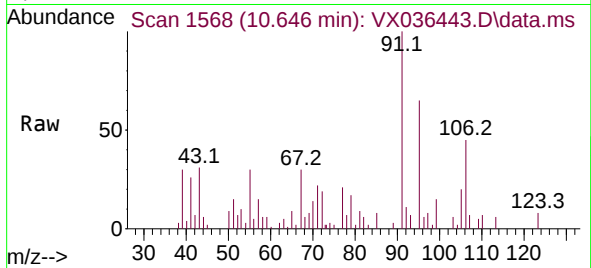




#69  
o-Xylene  
Concen: 0.829 ug/l  
RT: 10.646 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

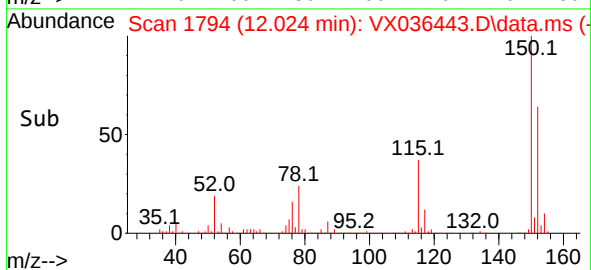
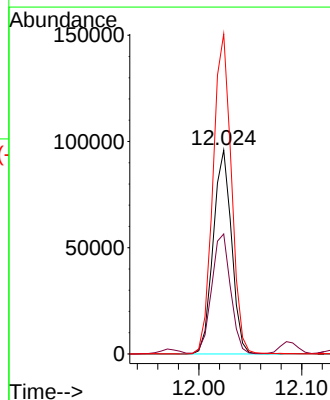
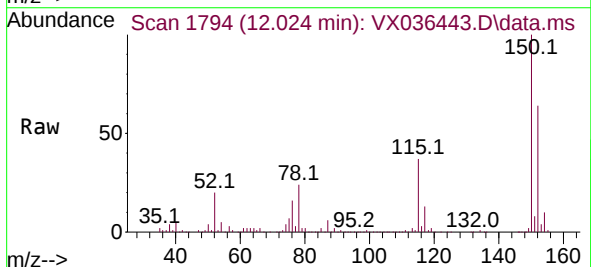
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-6

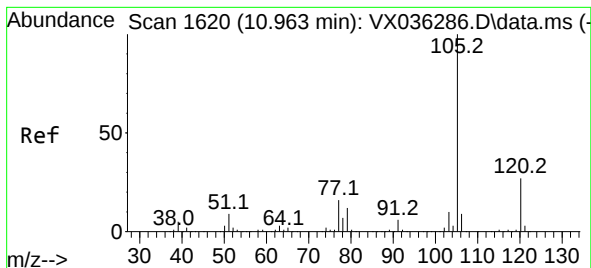
Tgt Ion:106 Resp: 2983  
Ion Ratio Lower Upper  
106 100  
91 218.4 108.9 326.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Tgt Ion:152 Resp: 118363  
Ion Ratio Lower Upper  
152 100  
115 60.7 43.3 129.9  
150 157.5 0.0 345.0





#73

Isopropylbenzene

Concen: 71.883 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX036443.D

Acq: 06 Jul 2023 18:39

Instrument :

MSVOA\_X

ClientSampleId :

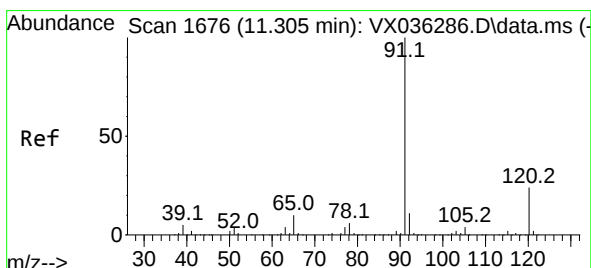
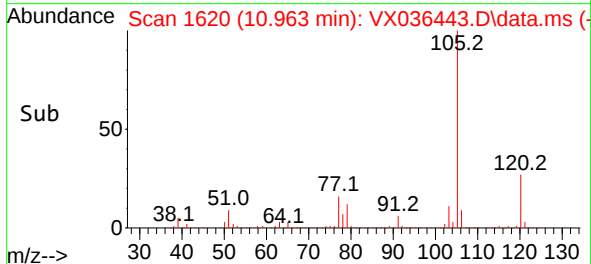
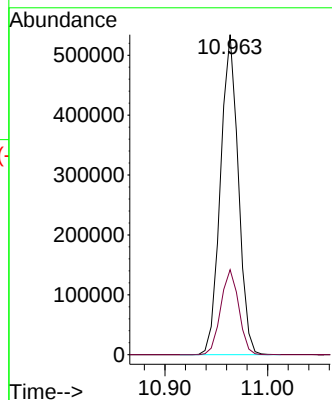
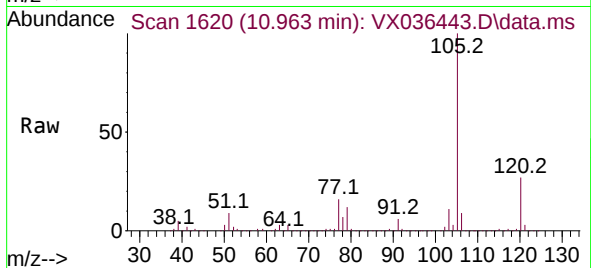
MW-6

Tgt Ion:105 Resp: 641190

Ion Ratio Lower Upper

105 100

120 26.8 12.9 38.6



#78

n-propylbenzene

Concen: 208.075 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX036443.D

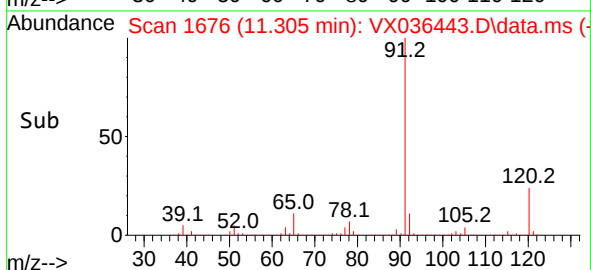
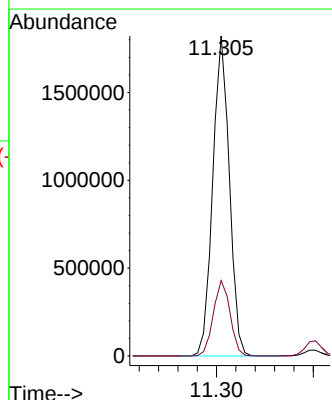
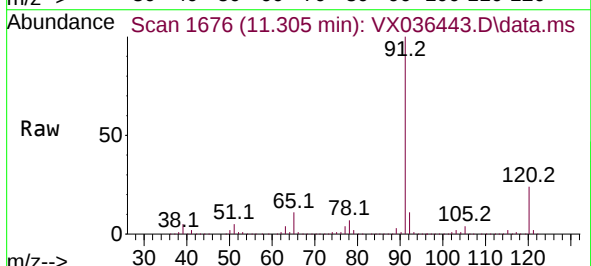
Acq: 06 Jul 2023 18:39

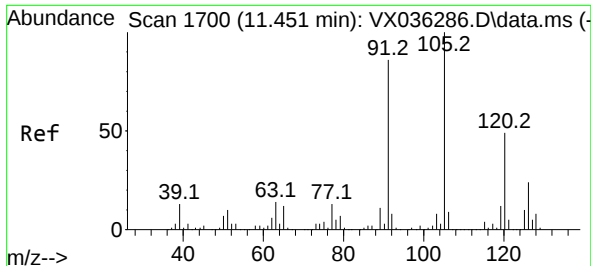
Tgt Ion: 91 Resp: 2167582

Ion Ratio Lower Upper

91 100

120 23.8 11.5 34.4

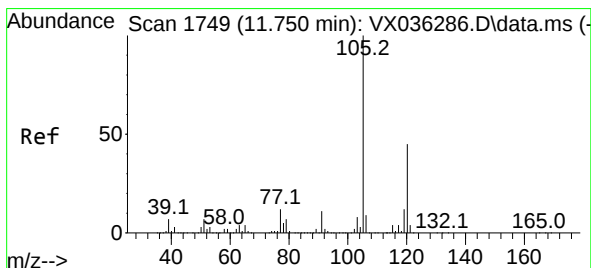
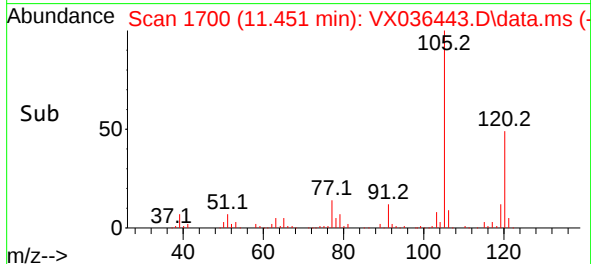
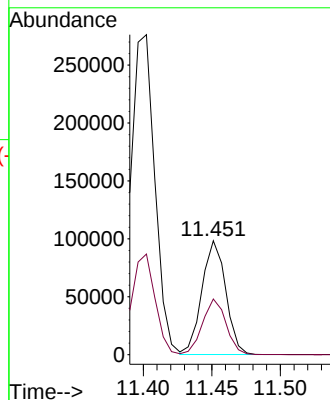
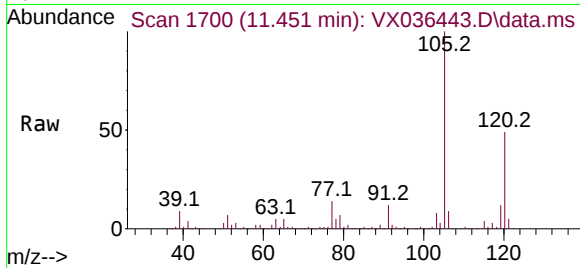




#80  
1,3,5-Trimethylbenzene  
Concen: 15.817 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

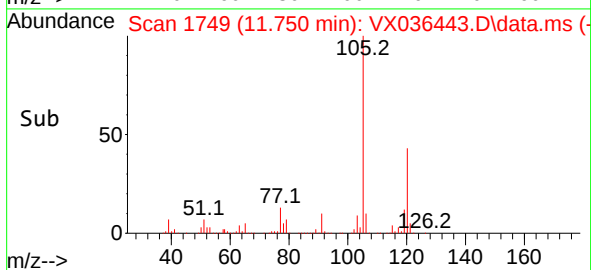
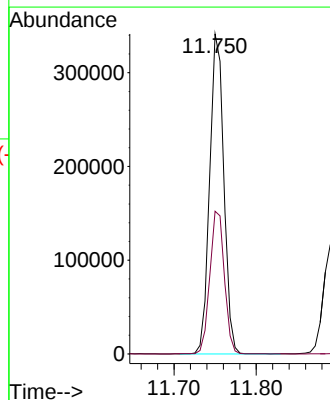
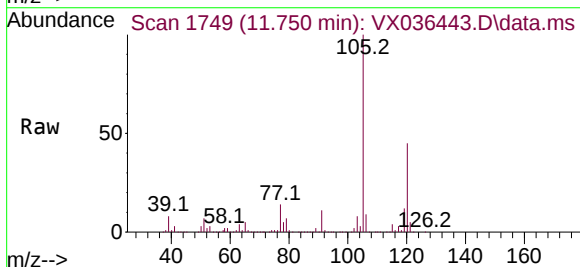
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-6

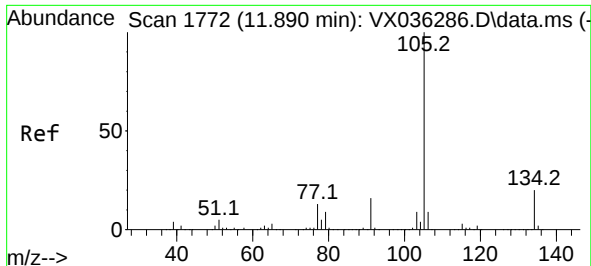
Tgt Ion:105 Resp: 119485  
Ion Ratio Lower Upper  
105 100  
120 48.4 24.1 72.3



#84  
1,2,4-Trimethylbenzene  
Concen: 54.699 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Tgt Ion:105 Resp: 408793  
Ion Ratio Lower Upper  
105 100  
120 45.9 21.2 63.6

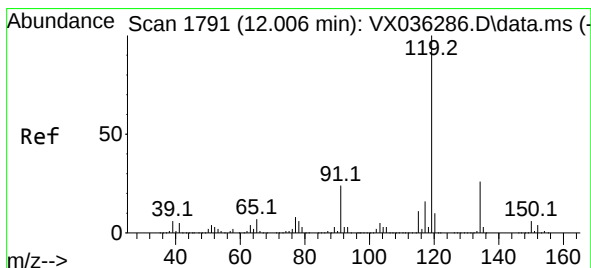
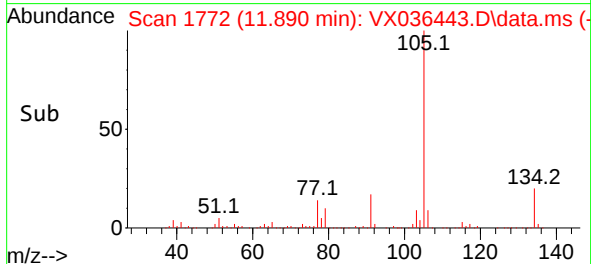
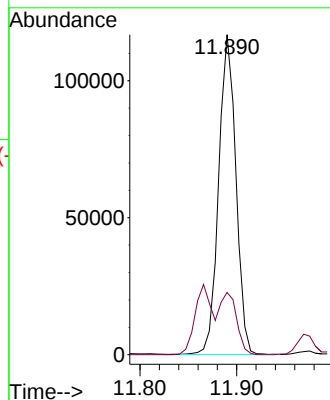
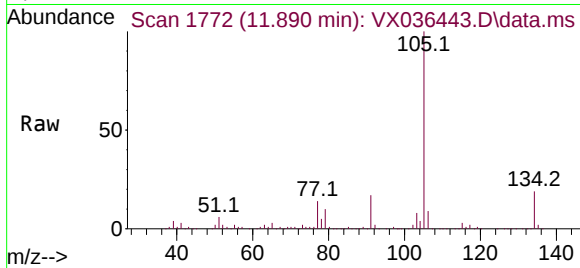




#85  
 sec-Butylbenzene  
 Concen: 15.727 ug/l  
 RT: 11.890 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX036443.D  
 Acq: 06 Jul 2023 18:39

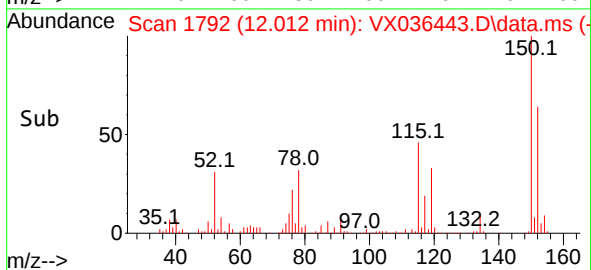
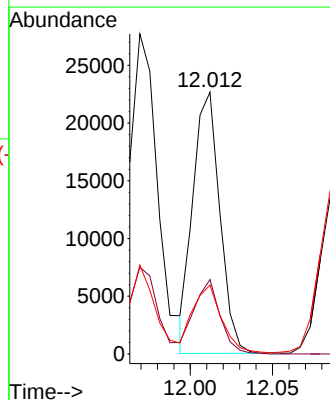
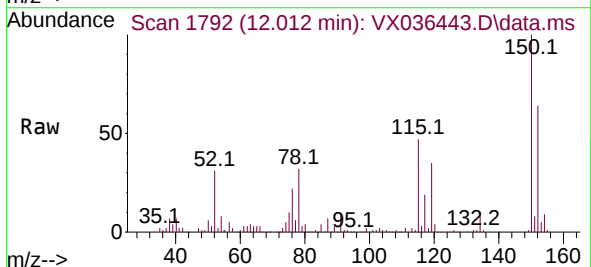
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-6

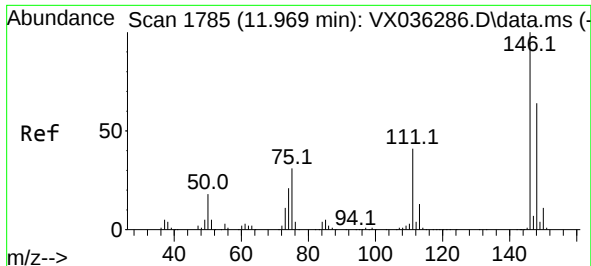
Tgt Ion:105 Resp: 144235  
 Ion Ratio Lower Upper  
 105 100  
 134 18.6 9.8 29.4



#86  
 p-Isopropyltoluene  
 Concen: 3.338 ug/l  
 RT: 12.012 min Scan# 1792  
 Delta R.T. 0.006 min  
 Lab File: VX036443.D  
 Acq: 06 Jul 2023 18:39

Tgt Ion:119 Resp: 25694  
 Ion Ratio Lower Upper  
 119 100  
 134 29.1 12.8 38.3  
 91 27.6 13.1 39.3





#87

1,3-Dichlorobenzene

Concen: 0.326 ug/l

RT: 11.969 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX036443.D

Acq: 06 Jul 2023 18:39

Instrument :

MSVOA\_X

ClientSampleId :

MW-6

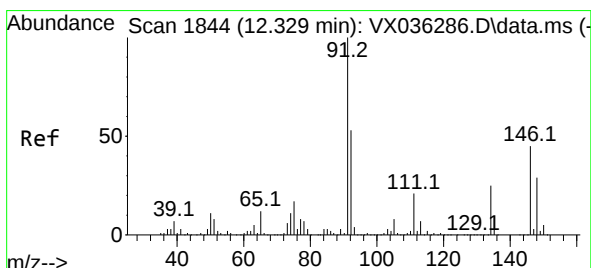
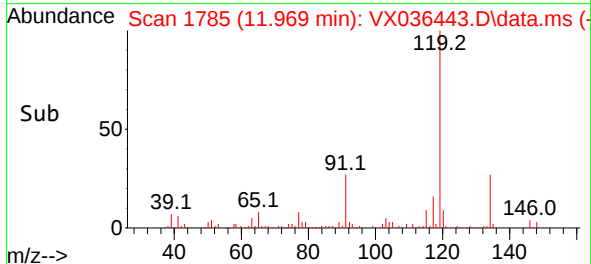
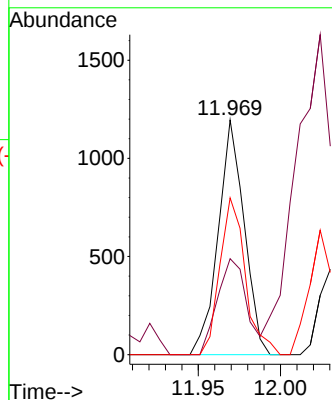
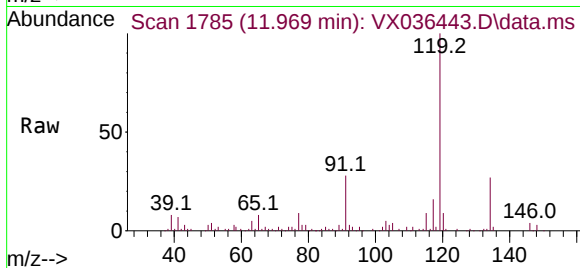
Tgt Ion:146 Resp: 1315

Ion Ratio Lower Upper

146 100

111 46.2 22.1 66.1

148 65.6 31.8 95.3



#89

n-Butylbenzene

Concen: 28.170 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX036443.D

Acq: 06 Jul 2023 18:39

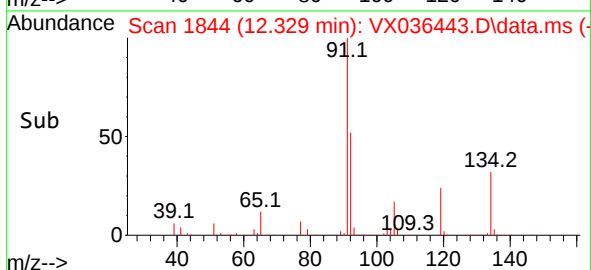
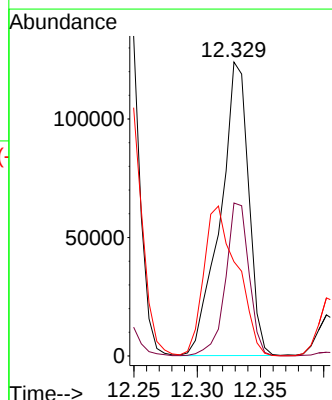
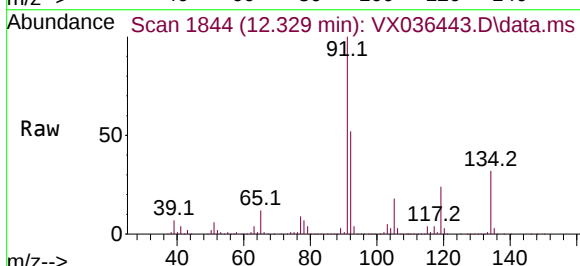
Tgt Ion: 91 Resp: 192962

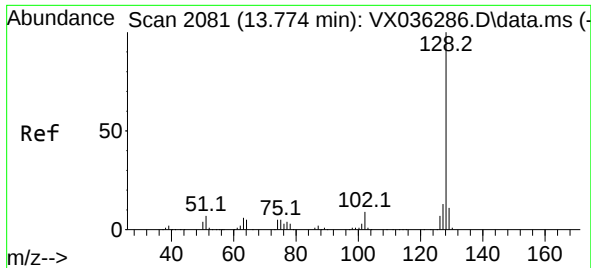
Ion Ratio Lower Upper

91 100

92 43.2 27.4 82.0

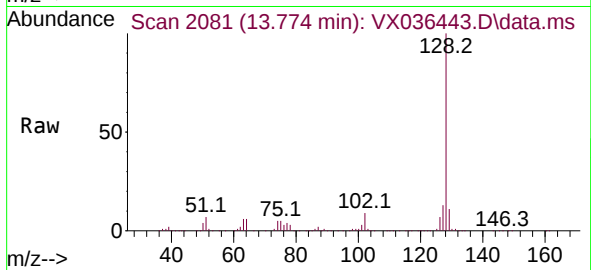
134 60.2 12.6 37.8#





#95  
Naphthalene  
Concen: 31.656 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX036443.D  
Acq: 06 Jul 2023 18:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-6



Tgt Ion:128 Resp: 255778  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.3 15.5  
129 13.0 8.8 13.2

