

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081924\  
 Data File : VY019116.D  
 Acq On : 19 Aug 2024 14:50  
 Operator : SY/MD  
 Sample : P3613-02  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 19 15:24:37 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 05:10:30 2024  
 Response via : Initial Calibration

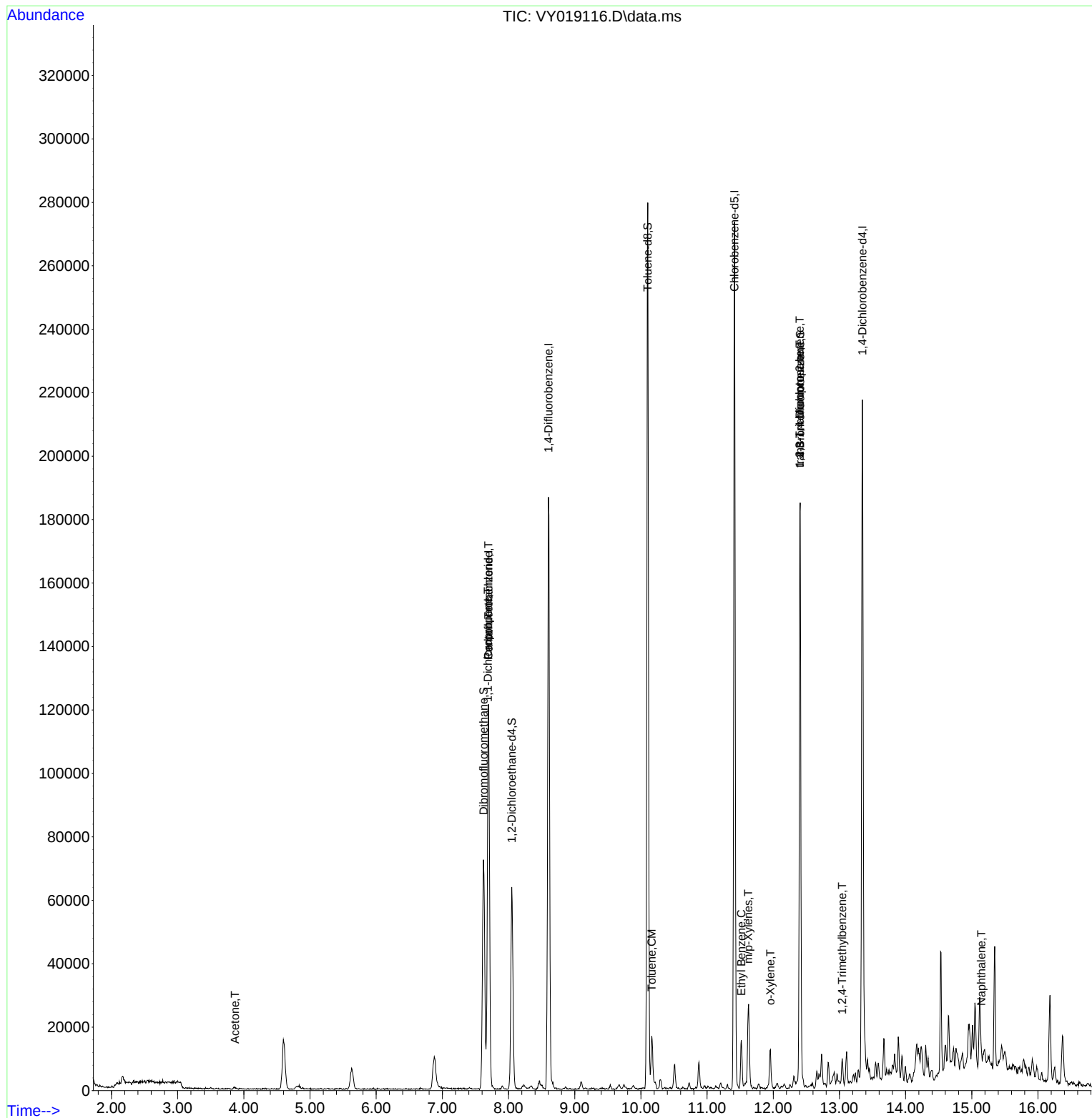
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.695  | 168   | 93870    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.603  | 114   | 161034   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 142269   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346 | 152   | 50271    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.049  | 65    | 48023    | 51.035    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 102.080% |          |
| 35) Dibromofluoromethane      | 7.622  | 113   | 50831    | 48.275    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 96.560%  |          |
| 50) Toluene-d8                | 10.103 | 98    | 176862   | 46.676    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 93.360%  |          |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 55112    | 42.666    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 29 - 146 | Recovery  | = 85.340%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.586  | 94    | 91       | Below Cal | #          | 60       |
| 6) Chloroethane               | 2.867  | 64    | 22       | Below Cal | #          | 42       |
| 11) Tert butyl alcohol        | 4.817  | 59    | 770      | Below Cal | #          | 88       |
| 16) Acetone                   | 3.866  | 43    | 718      | 4.114     | ug/l #     | 36       |
| 31) Cyclohexane               | 7.689  | 56    | 2025     | Below Cal | #          | 8        |
| 36) 1,1-Dichloropropene       | 7.689  | 75    | 7264     | 5.024     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 7.695  | 117   | 9370     | 5.592     | ug/l #     | 17       |
| 52) Toluene                   | 10.164 | 92    | 6378     | 2.191     | ug/l       | 92       |
| 67) Ethyl Benzene             | 11.517 | 91    | 10197    | 1.793     | ug/l       | 95       |
| 68) m/p-Xylenes               | 11.621 | 106   | 8120     | 3.599     | ug/l       | 95       |
| 69) o-Xylene                  | 11.956 | 106   | 2860     | 1.369     | ug/l       | 86       |
| 76) 1,2,3-Trichloropropane    | 12.401 | 75    | 29692    | 59.891    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.401 | 75    | 29692    | 147.912   | ug/l #     | 16       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105   | 4542     | 1.452     | ug/l       | 99       |
| 95) Naphthalene               | 15.145 | 128   | 2065     | 1.278     | ug/l #     | 94       |
| -----                         |        |       |          |           |            |          |

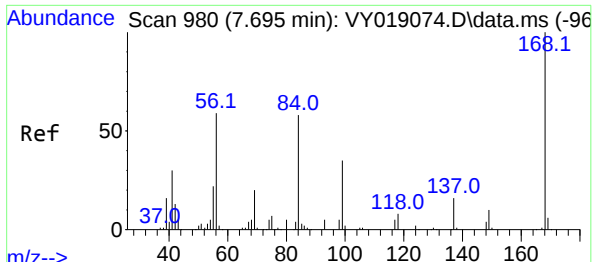
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081924\  
Data File : VY019116.D  
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Operator : SY/MD  
Sample : P3613-02  
Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL/B  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

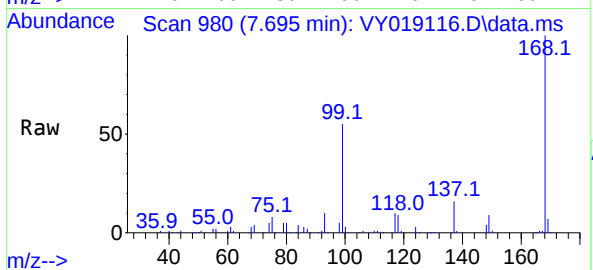
Quant Time: Aug 19 15:24:37 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 16 05:10:30 2024  
Response via : Initial Calibration



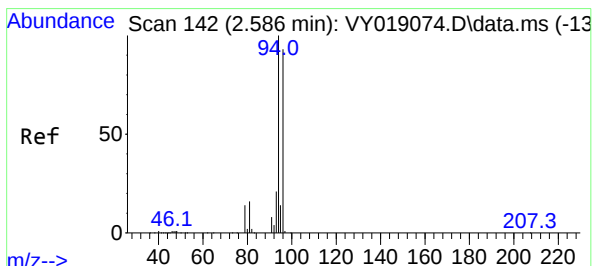
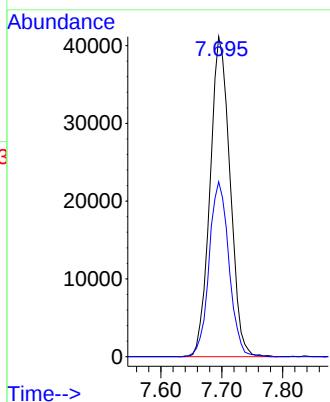
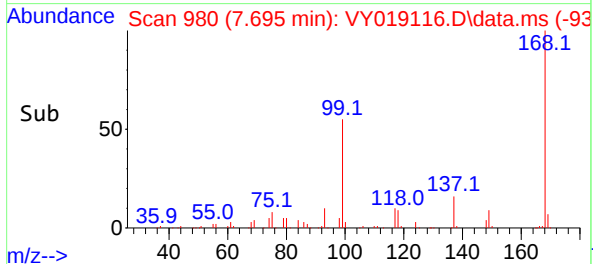


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.695 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

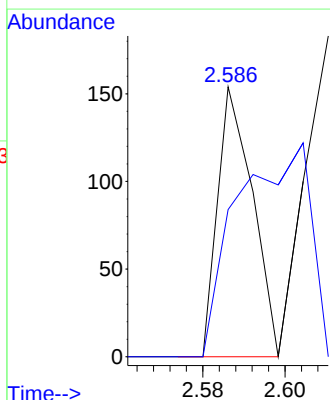
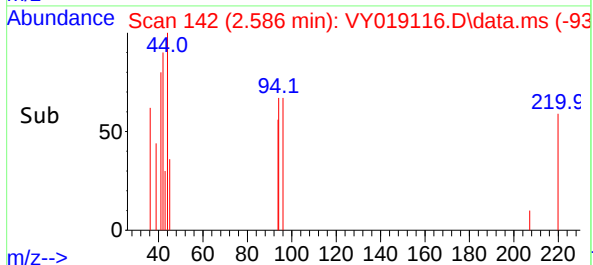
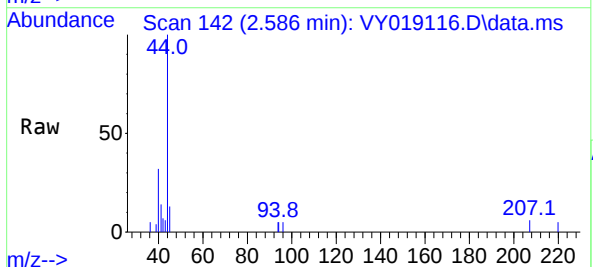


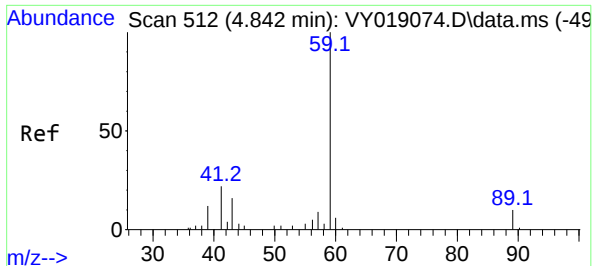
Tgt Ion:168 Resp: 93870  
Ion Ratio Lower Upper  
168 100  
99 54.7 39.1 58.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.586 min Scan# 142  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

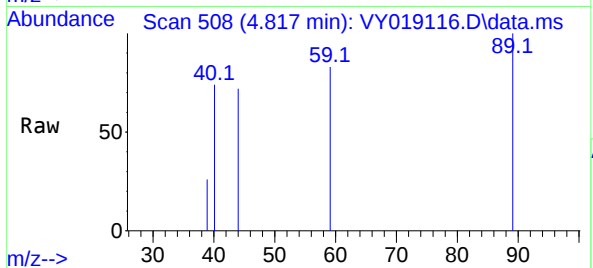
Tgt Ion: 94 Resp: 91  
Ion Ratio Lower Upper  
94 100  
96 54.5 74.1 111.1#



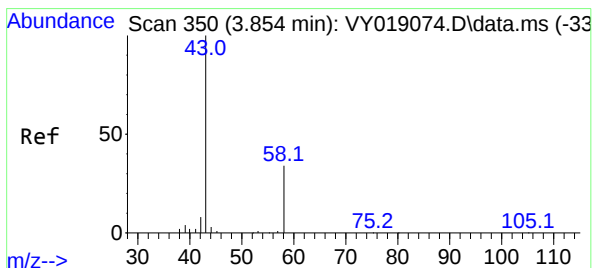
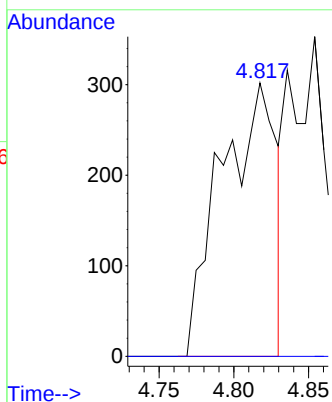
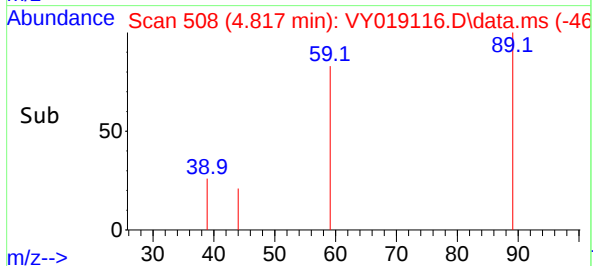


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.817 min Scan# 508  
Delta R.T. -0.025 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

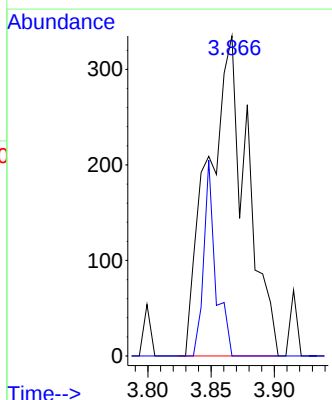
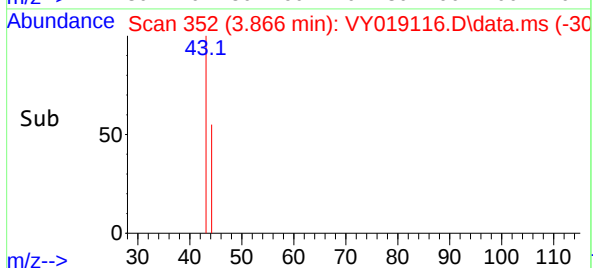
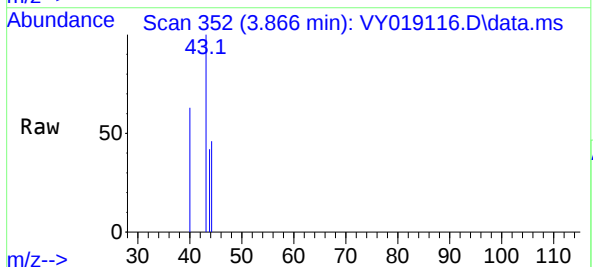


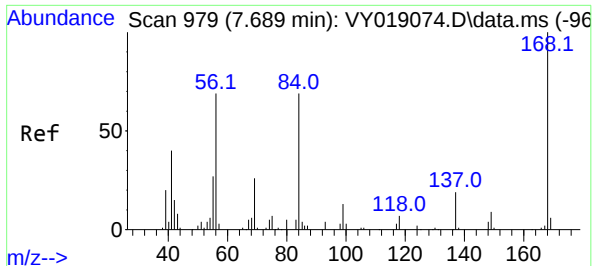
Tgt Ion: 59 Resp: 770  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#



#16  
Acetone  
Concen: 4.114 ug/l  
RT: 3.866 min Scan# 352  
Delta R.T. 0.012 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

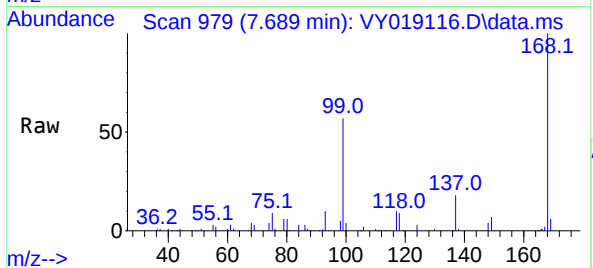
Tgt Ion: 43 Resp: 718  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 47.5#



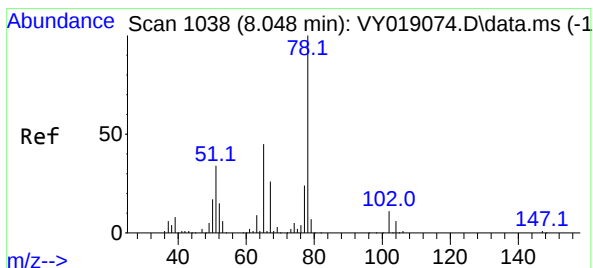
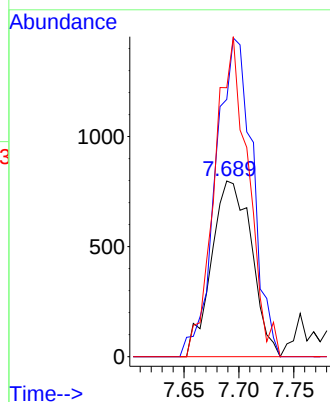
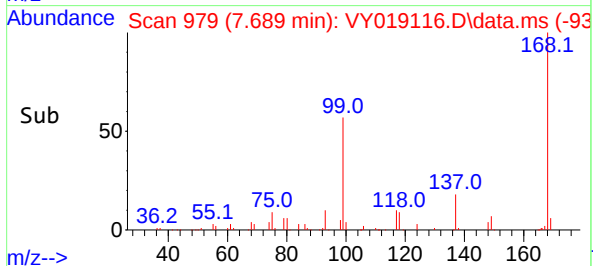


#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.689 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

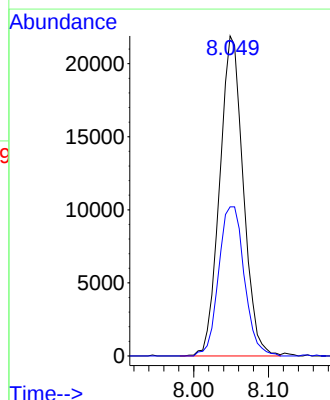
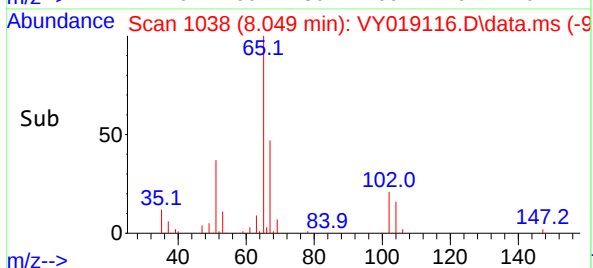
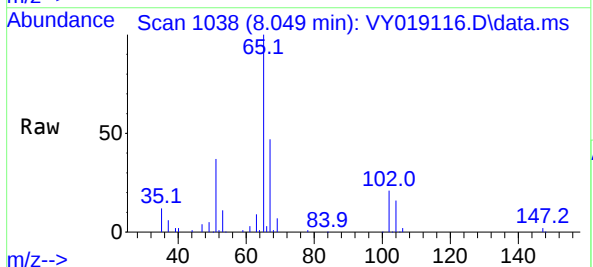


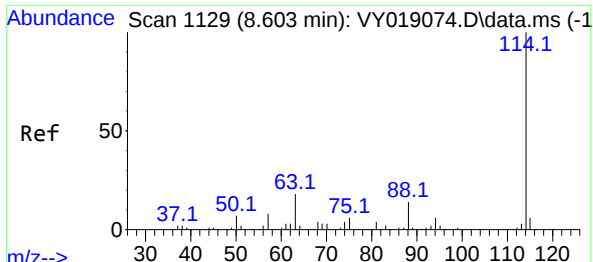
Tgt Ion: 56 Resp: 2025  
Ion Ratio Lower Upper  
56 100  
69 146.5 28.7 43.1#  
84 153.1 77.7 116.5#



#33  
1,2-Dichloroethane-d4  
Concen: 51.035 ug/l  
RT: 8.049 min Scan# 1038  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Tgt Ion: 65 Resp: 48023  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 109.6

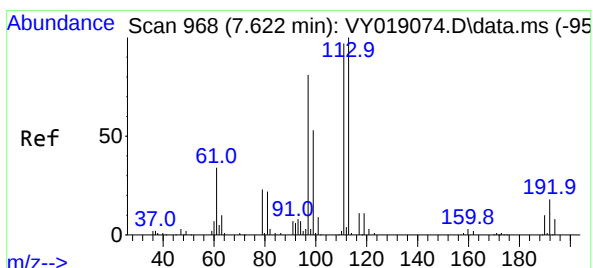
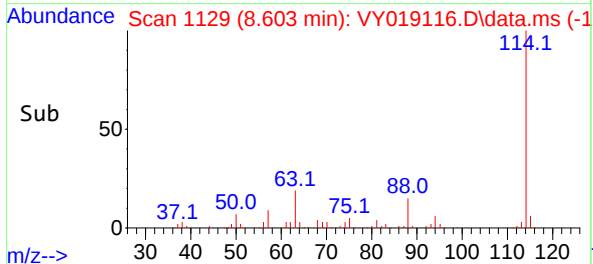
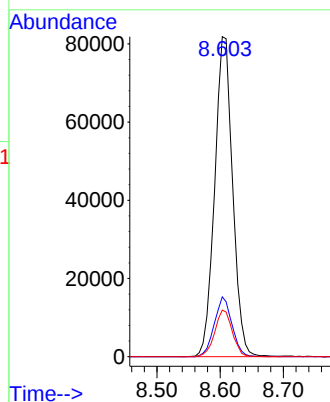
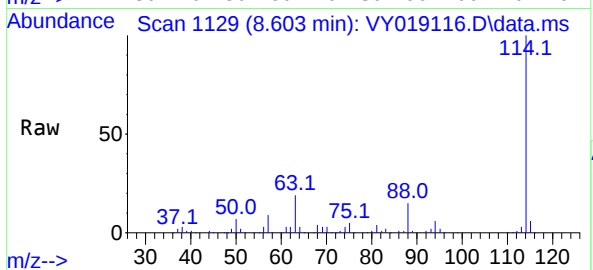




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.603 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

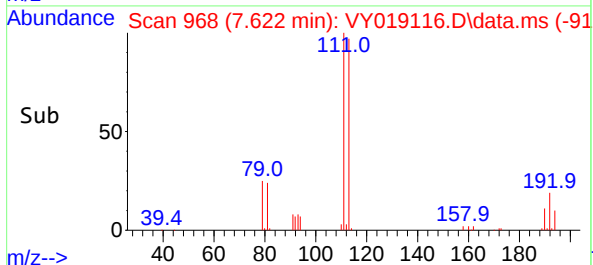
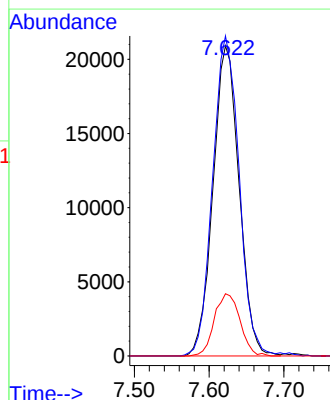
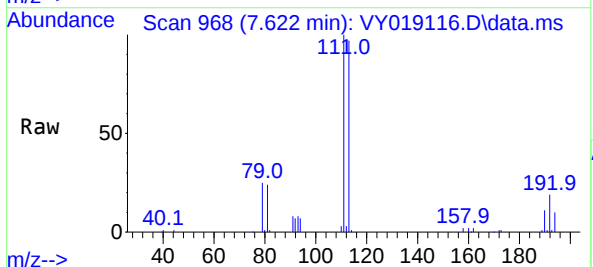
Instrument :  
MSVOA\_Y  
ClientSampleId :

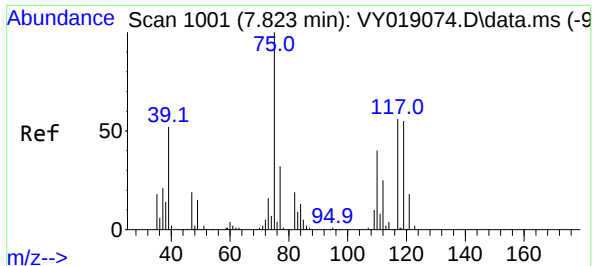
Tgt Ion:114 Resp: 161034  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 35.0  
88 14.6 0.0 27.2



#35  
Dibromofluoromethane  
Concen: 48.275 ug/l  
RT: 7.622 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

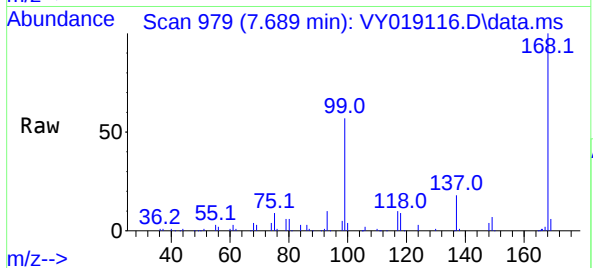
Tgt Ion:113 Resp: 50831  
Ion Ratio Lower Upper  
113 100  
111 104.2 82.2 123.4  
192 19.7 15.9 23.9



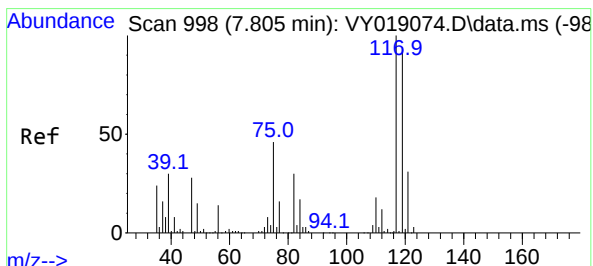
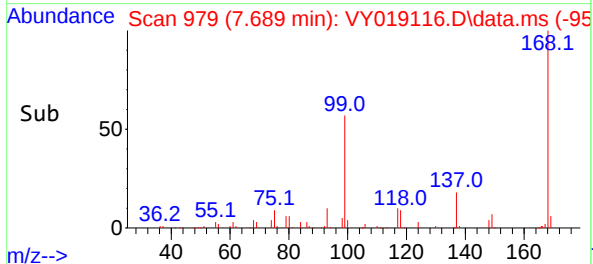
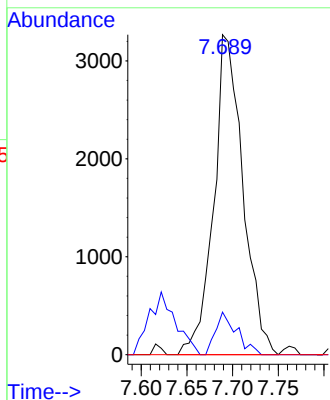


#36  
1,1-Dichloropropene  
Concen: 5.024 ug/l  
RT: 7.689 min Scan# 91  
Delta R.T. -0.134 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

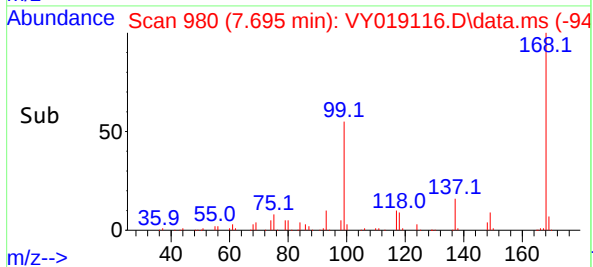
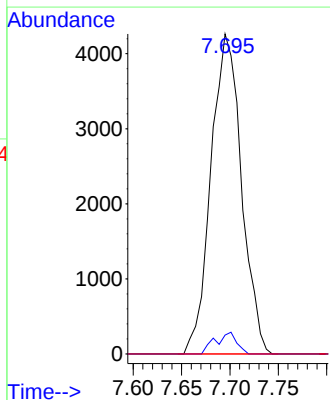
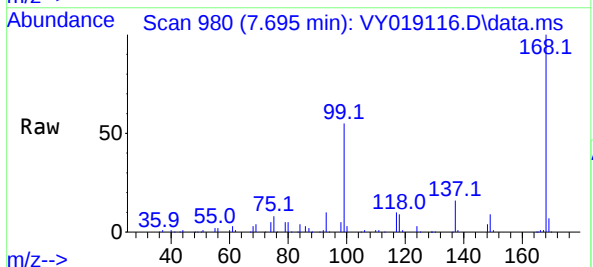


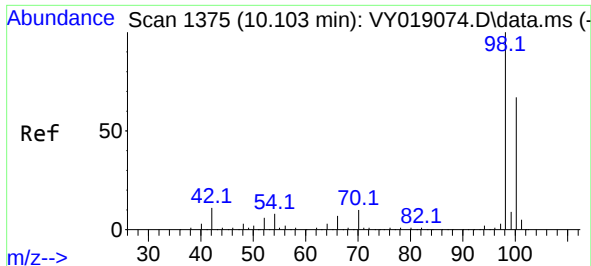
Tgt Ion: 75 Resp: 7264  
Ion Ratio Lower Upper  
75 100  
110 9.7 19.0 57.0#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 5.592 ug/l  
RT: 7.695 min Scan# 980  
Delta R.T. -0.110 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Tgt Ion: 117 Resp: 9370  
Ion Ratio Lower Upper  
117 100  
119 5.9 75.8 113.6#  
121 0.0 24.0 36.0#

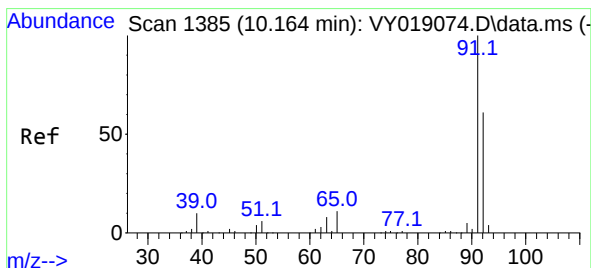
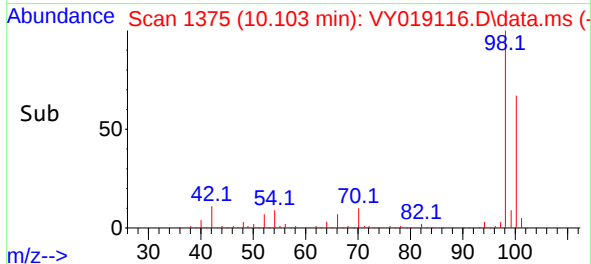
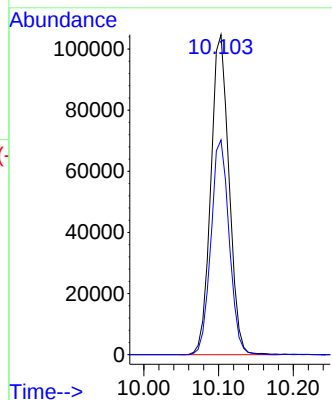
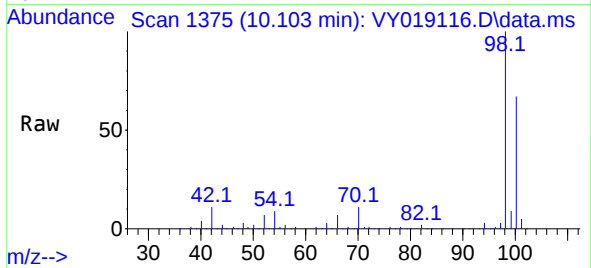




#50  
Toluene-d8  
Concen: 46.676 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

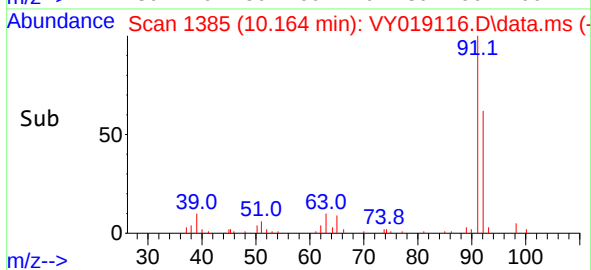
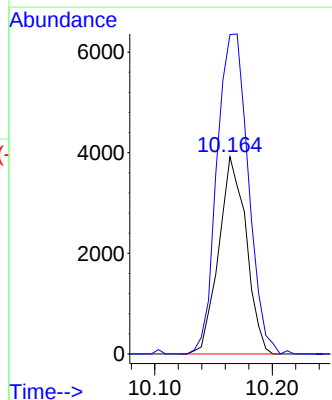
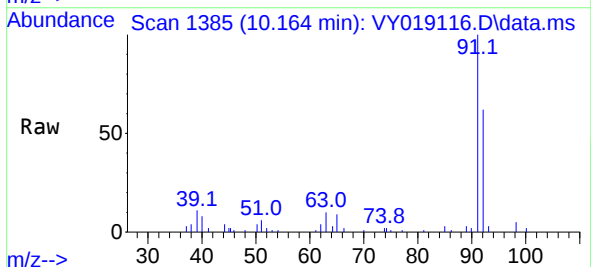
Instrument :  
MSVOA\_Y  
ClientSampleId :

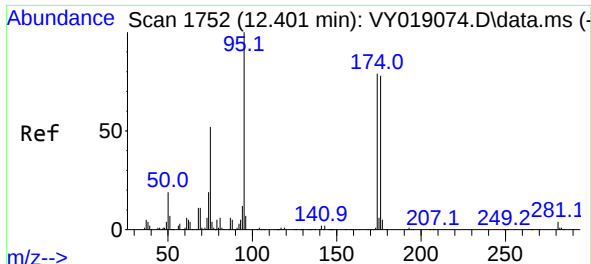
Tgt Ion: 98 Resp: 176862  
Ion Ratio Lower Upper  
98 100  
100 67.3 52.0 78.0



#52  
Toluene  
Concen: 2.191 ug/l  
RT: 10.164 min Scan# 1385  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Tgt Ion: 92 Resp: 6378  
Ion Ratio Lower Upper  
92 100  
91 185.5 139.0 208.6



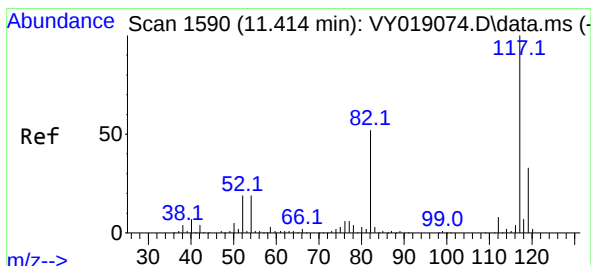
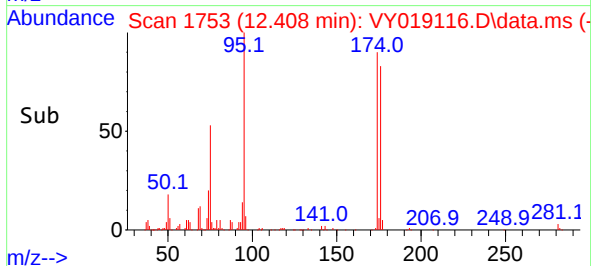
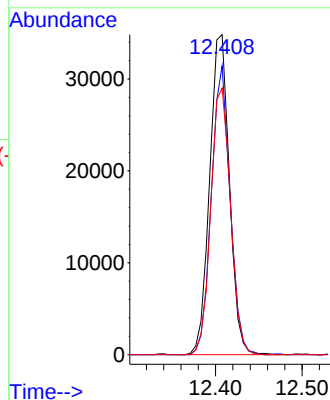
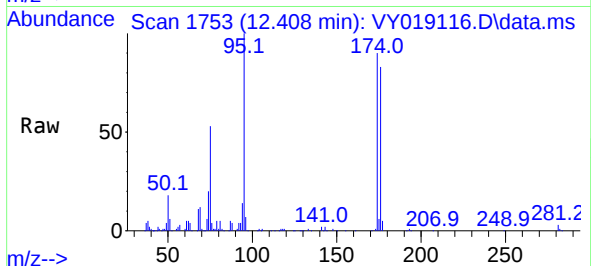


#62  
4-Bromofluorobenzene  
Concen: 42.666 ug/l  
RT: 12.408 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 95 Resp: 55112

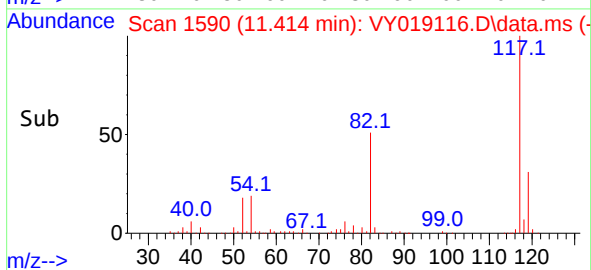
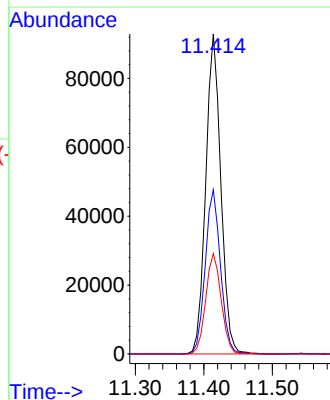
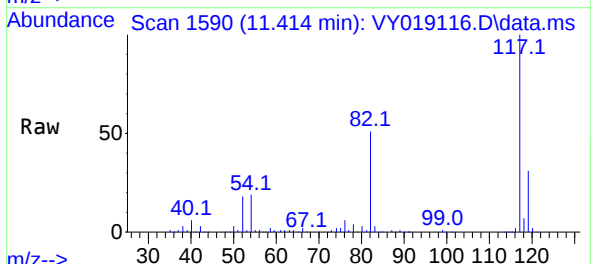
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 85.3  | 0.0   | 175.6 |
| 176 | 83.3  | 0.0   | 171.4 |

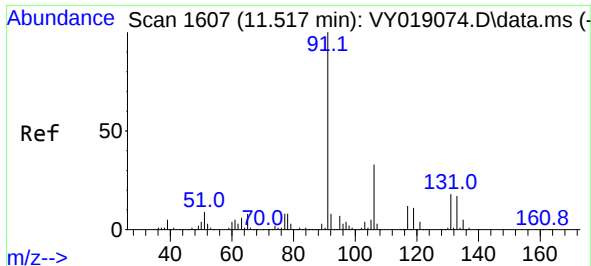


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Tgt Ion: 117 Resp: 142269

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 51.3  | 42.4  | 63.6  |
| 119 | 31.3  | 25.9  | 38.9  |

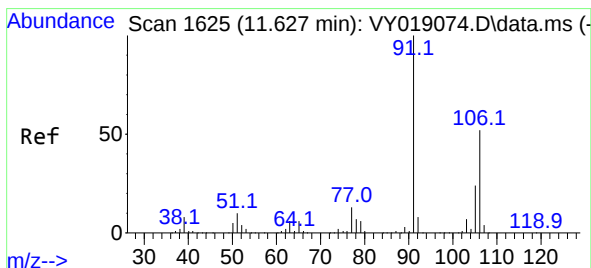
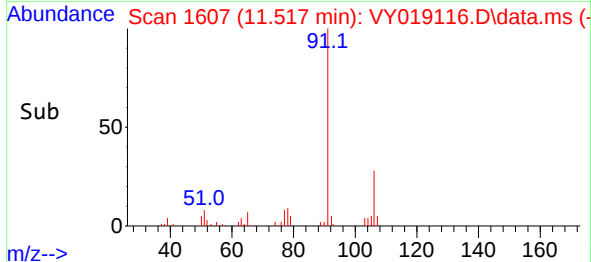
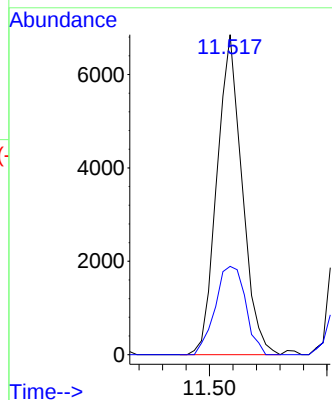
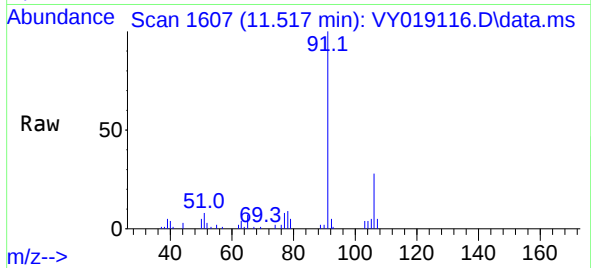




#67  
Ethyl Benzene  
Concen: 1.793 ug/l  
RT: 11.517 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

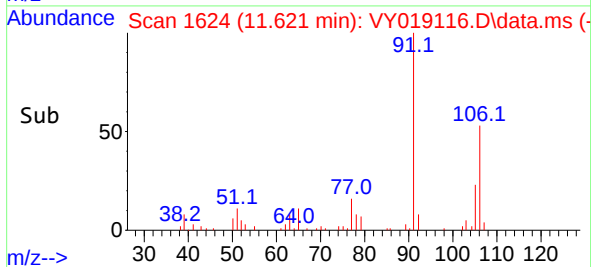
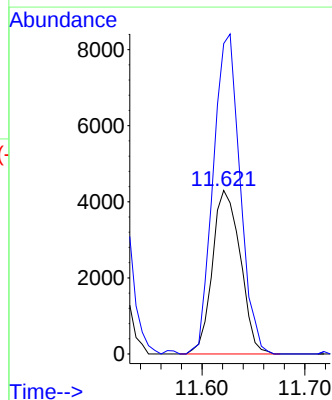
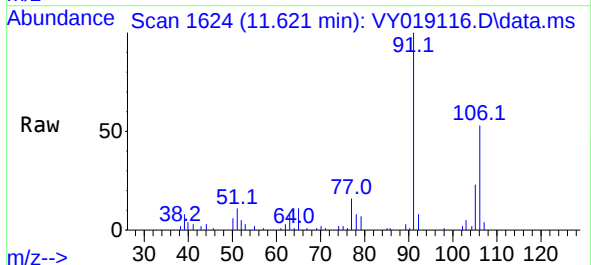
Instrument :  
MSVOA\_Y  
ClientSampleId :

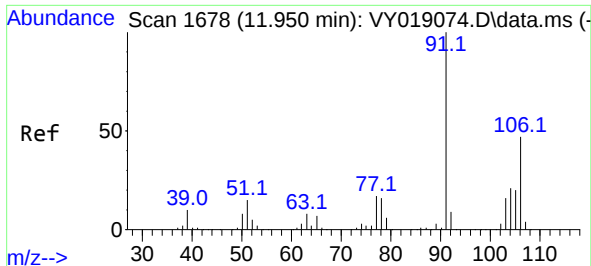
Tgt Ion: 91 Resp: 10197  
Ion Ratio Lower Upper  
91 100  
106 27.6 24.5 36.7



#68  
m/p-Xylenes  
Concen: 3.599 ug/l  
RT: 11.621 min Scan# 1624  
Delta R.T. -0.006 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Tgt Ion: 106 Resp: 8120  
Ion Ratio Lower Upper  
106 100  
91 187.6 156.0 234.0

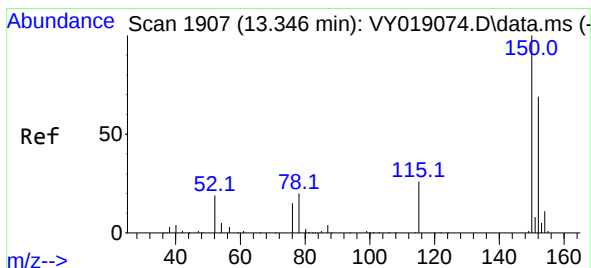
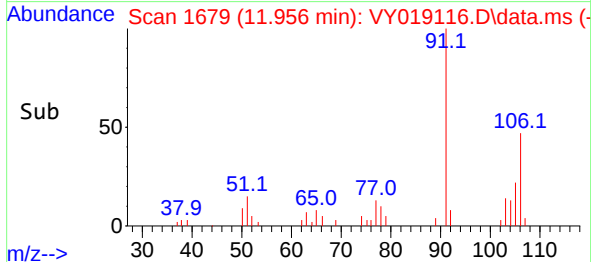
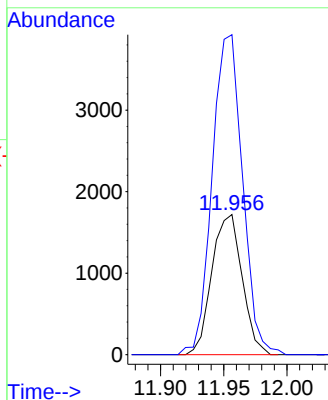
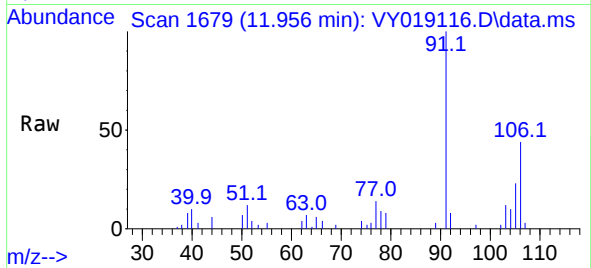




#69  
o-Xylene  
Concen: 1.369 ug/l  
RT: 11.956 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

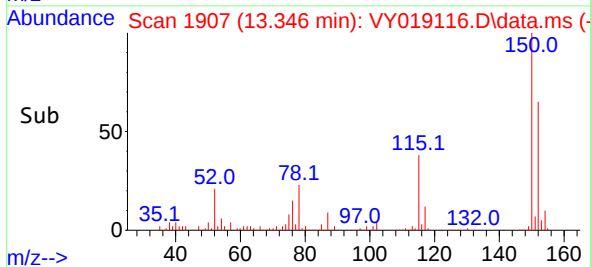
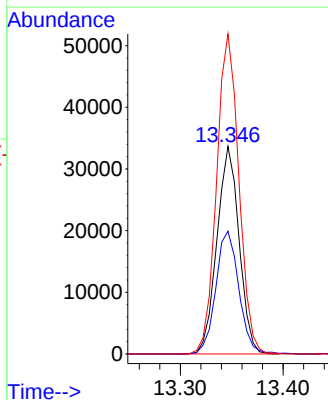
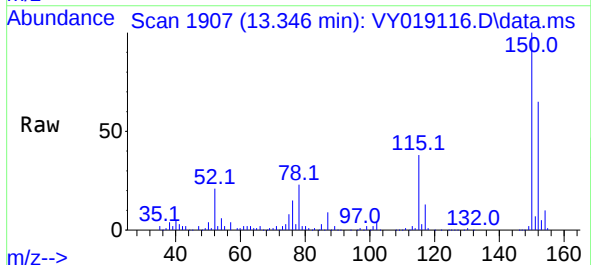
Instrument :  
MSVOA\_Y  
ClientSampleId :

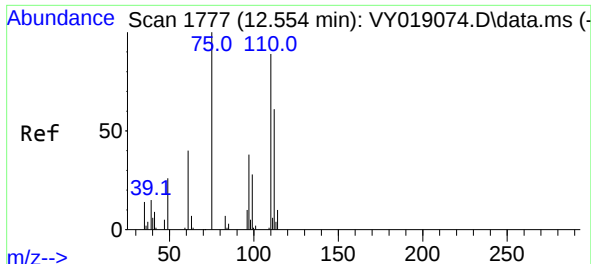
Tgt Ion:106 Resp: 2860  
Ion Ratio Lower Upper  
106 100  
91 229.2 103.6 310.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Tgt Ion:152 Resp: 50271  
Ion Ratio Lower Upper  
152 100  
115 61.7 28.2 84.7  
150 155.0 0.0 345.6

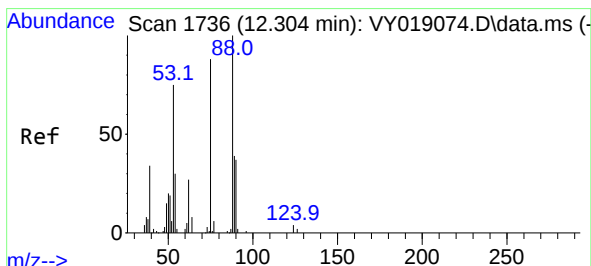
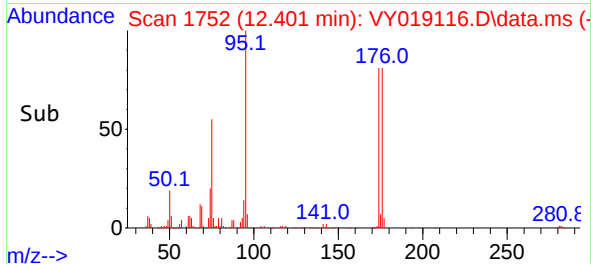
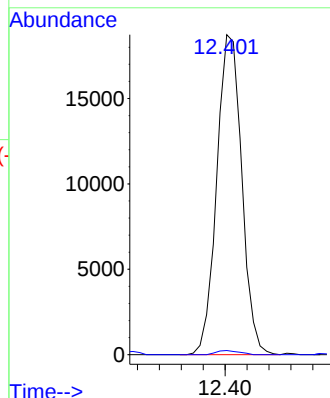
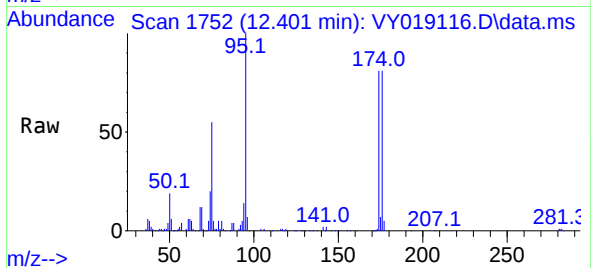




#76  
1,2,3-Trichloropropane  
Concen: 59.891 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. -0.152 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

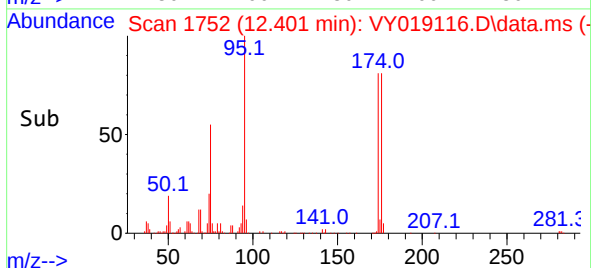
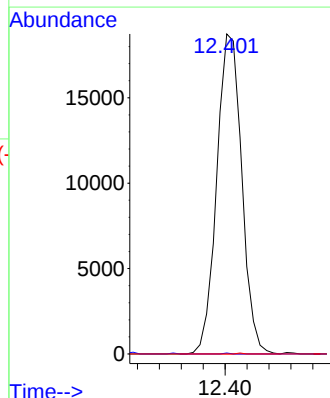
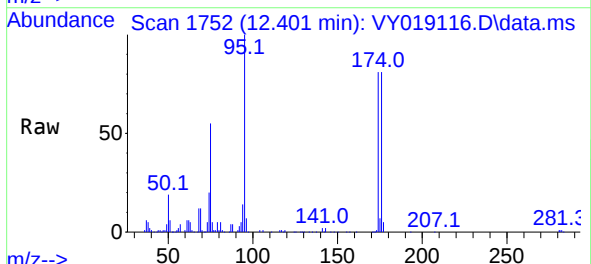
Instrument :  
MSVOA\_Y  
ClientSampleId :

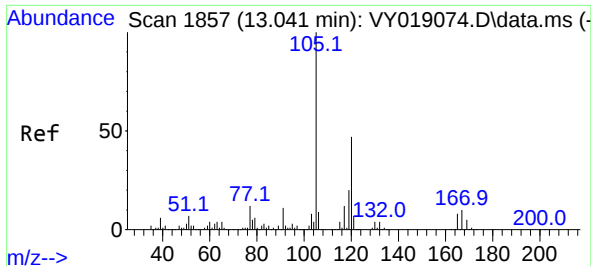
Tgt Ion: 75 Resp: 29692  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 147.912 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. 0.098 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

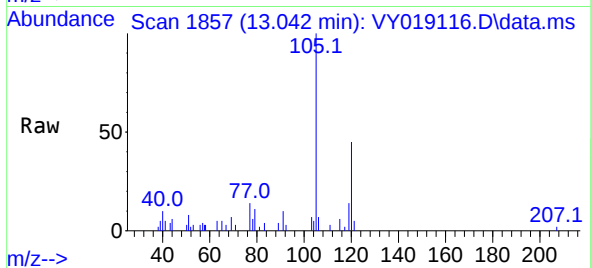
Tgt Ion: 75 Resp: 29692  
Ion Ratio Lower Upper  
75 100  
53 0.1 66.8 100.2#  
89 0.1 35.8 53.6#



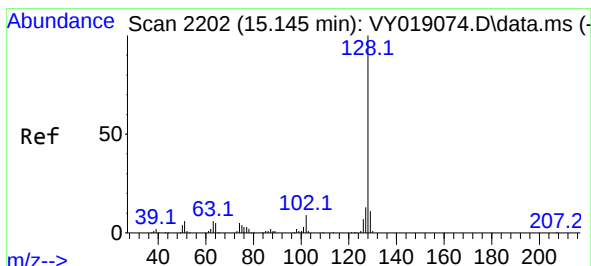
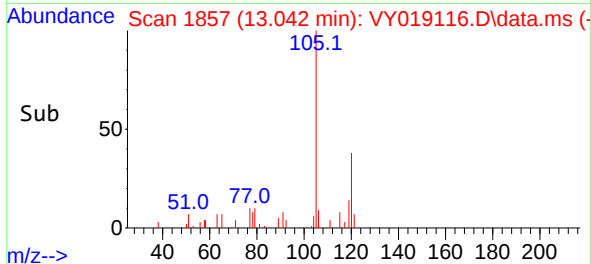
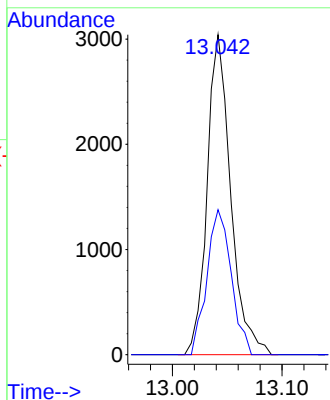


#84  
1,2,4-Trimethylbenzene  
Concen: 1.452 ug/l  
RT: 13.042 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :



Tgt Ion:105 Resp: 4542  
Ion Ratio Lower Upper  
105 100  
120 46.8 23.2 69.6



#95  
Naphthalene  
Concen: 1.278 ug/l  
RT: 15.145 min Scan# 2202  
Delta R.T. 0.000 min  
Lab File: VY019116.D  
Acq: 19 Aug 2024 14:50

Tgt Ion:128 Resp: 2065  
Ion Ratio Lower Upper  
128 100  
127 17.7 10.6 16.0#  
129 10.6 8.6 13.0

