

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW102221\  
 Data File : VW020690.D  
 Acq On : 22 Oct 2021 18:49  
 Operator : SY/VA  
 Sample : M4068-02 5PPBLOQ  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2021

Manual Integrations  
 APPROVED

MMDadoda  
 10/25/2021 11:56:25 AM

Quant Time: Oct 23 06:15:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:13:41 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.952          | 168  | 94224      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.842          | 114  | 137023     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.634         | 117  | 126687     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.554         | 152  | 68465      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.305          | 65   | 49479      | 47.263  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.520% |        |          |
| 35) Dibromofluoromethane     | 7.891          | 113  | 41204      | 45.981  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 91.960% |        |          |
| 50) Toluene-d8               | 10.323         | 98   | 158279     | 46.211  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 92.420% |        |          |
| 62) 4-Bromofluorobenzene     | 12.615         | 95   | 57765      | 46.006  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 92.020% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.007          | 85   | 974        | 3.923   | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 3098       | 4.969   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.355          | 62   | 3673       | 4.593   | ug/l   | 98       |
| 5) Bromomethane              | 2.763          | 94   | 2486       | 5.230   | ug/l   | 96       |
| 6) Chloroethane              | 2.910          | 64   | 1587       | 4.466   | ug/l # | 88       |
| 7) Trichlorofluoromethane    | 3.245          | 101  | 2645       | 4.623   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.684          | 74   | 2102       | 4.605   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.056          | 101  | 4786       | 5.097   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.263          | 142  | 5383       | 4.618   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.196          | 59   | 1429       | 22.289  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.044          | 96   | 4179       | 4.766   | ug/l   | 94       |
| 13) Acrolein                 | 3.897          | 56   | 1485       | 25.874  | ug/l   | 93       |
| 14) Allyl chloride           | 4.666          | 41   | 6507       | 4.596   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.367          | 53   | 5896       | 25.325  | ug/l   | 92       |
| 16) Acetone                  | 4.129          | 43   | 5233       | 20.454  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.379          | 76   | 12298      | 4.826   | ug/l   | 97       |
| 18) Methyl Acetate           | 4.678          | 43   | 4338       | 5.492   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.428          | 73   | 7209       | 4.793   | ug/l   | 94       |
| 20) Methylene Chloride       | 4.909          | 84   | 13213      | 10.245  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.421          | 96   | 4756       | 4.857   | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.318          | 45   | 12294      | 4.438   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.263          | 43   | 34475      | 21.249  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.214          | 63   | 8743       | 4.937   | ug/l   | 98       |
| 25) 2-Butanone               | 7.177          | 43   | 7262       | 22.746  | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.165          | 77   | 5437       | 4.691   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.165          | 96   | 4846       | 4.643   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.519          | 49   | 3945       | 5.388   | ug/l # | 93       |
| 29) Tetrahydrofuran          | 7.537          | 42   | 4552       | 23.304  | ug/l   | 97       |
| 30) Chloroform               | 7.677          | 83   | 9309       | 5.039   | ug/l   | 95       |
| 31) Cyclohexane              | 7.952          | 56   | 9656       | 5.435   | ug/l # | 77       |
| 32) 1,1,1-Trichloroethane    | 7.872          | 97   | 7655       | 4.900   | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 8.080          | 75   | 7045       | 4.774   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.263          | 43   | 3511       | 5.142   | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 8.073          | 117  | 7155       | 4.890   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.335          | 83   | 8214       | 4.774   | ug/l   | 95       |
| 40) Benzene                  | 8.323          | 78   | 44560m     | 11.034  | ug/l   |          |

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 Sample : M4068-02 5PPBLOQ  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2021

Manual Integrations  
 APPROVED

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 10/25/2021 11:56:25 AM

Quant Time: Oct 23 06:15:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:13:41 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.494  | 41   | 1854     | 4.661  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.403  | 62   | 6680     | 5.138  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.427  | 43   | 5963     | 4.706  | ug/l   | 98       |
| 44) Trichloroethene           | 9.098  | 130  | 5554     | 5.060  | ug/l   | 83       |
| 45) 1,2-Dichloropropane       | 9.372  | 63   | 4864     | 5.024  | ug/l   | 92       |
| 46) Dibromomethane            | 9.463  | 93   | 2689     | 4.944  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.646  | 83   | 6477     | 4.832  | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.439  | 41   | 2752     | 4.514  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.463  | 88   | 685      | 94.771 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone      | 10.213 | 43   | 16036    | 23.275 | ug/l   | 98       |
| 52) Toluene                   | 10.384 | 92   | 13000    | 5.124  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.610 | 75   | 6027     | 4.418  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 6959     | 4.503  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 3859     | 5.093  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 4386     | 4.503  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.933 | 76   | 6569     | 5.004  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.927  | 63   | 10642    | 24.238 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.969 | 43   | 10824    | 22.205 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.128 | 129  | 4109     | 4.600  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 3593     | 4.901  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.866 | 164  | 5281     | 5.369  | ug/l   | 87       |
| 65) Chlorobenzene             | 11.658 | 112  | 13272    | 4.867  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 4515     | 4.567  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.731 | 91   | 22660    | 4.589  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.841 | 106  | 17116    | 8.965  | ug/l   | 98       |
| 69) o-Xylene                  | 12.164 | 106  | 7842     | 4.457  | ug/l   | 98       |
| 70) Styrene                   | 12.182 | 104  | 13246    | 4.395  | ug/l   | 98       |
| 71) Bromoform                 | 12.347 | 173  | 2596     | 4.479  | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.463 | 105  | 22121    | 4.485  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.274 | 43   | 5017     | 4.192  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 4565     | 4.941  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.768 | 75   | 4421m    | 5.828  | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 5871     | 4.963  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.804 | 91   | 27745    | 4.581  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 16159    | 4.638  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.945 | 105  | 18999    | 4.457  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.512 | 75   | 1365     | 4.623  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 17016    | 4.643  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.207 | 119  | 16906    | 4.596  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 19230    | 4.557  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.383 | 105  | 25475    | 4.617  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.493 | 119  | 21193    | 4.515  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 11832    | 4.860  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 11535    | 4.745  | ug/l   | 92       |
| 89) n-Butylbenzene            | 13.822 | 91   | 20003    | 4.595  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.091 | 117  | 3905     | 4.766  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.865 | 146  | 10729    | 4.963  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.481 | 75   | 840      | 5.037  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 7070     | 4.930  | ug/l   | 92       |
| 94) Hexachlorobutadiene       | 15.231 | 225  | 4870     | 5.244  | ug/l   | 97       |
| 95) Naphthalene               | 15.365 | 128  | 11275    | 4.414  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 6220     | 4.790  | ug/l   | 97       |

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Operator : SY/VA  
Sample : M4068-02 5PPBL0Q  
Misc : 5.00g/5mL/MSVOA\_W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Manual Integrations  
APPROVED

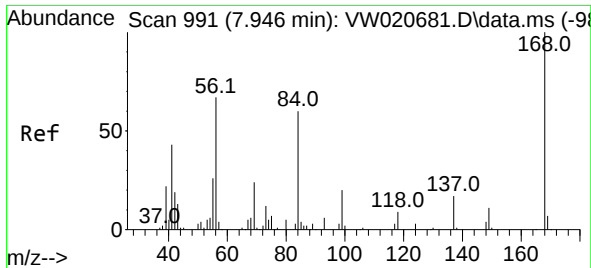
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10/25/2021 11:56:25 AM

Quant Time: Oct 23 06:15:15 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W102221S.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 23 06:13:41 2021  
Response via : Initial Calibration

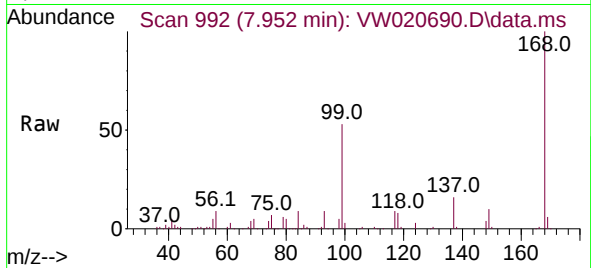
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

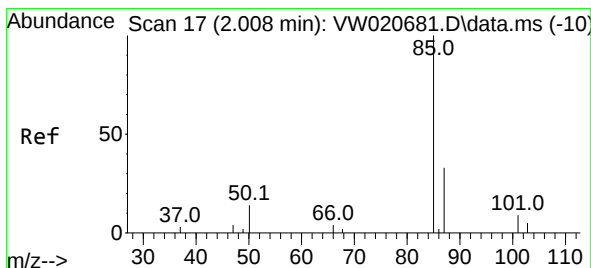
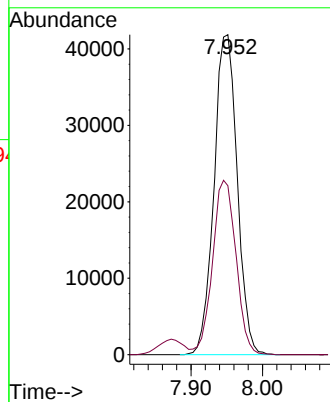
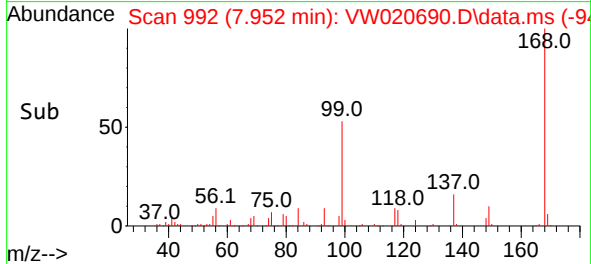




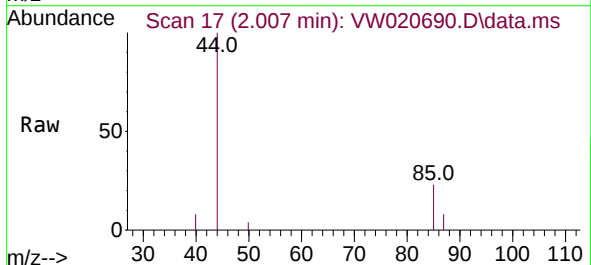
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Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.952 min Scan# 992  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



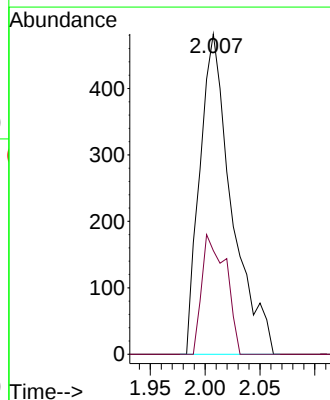
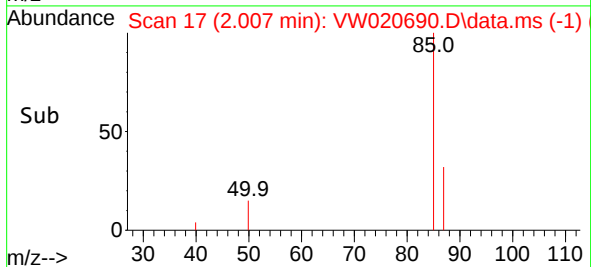
Tgt Ion: 168 Resp: 94224  
Ion Ratio Lower Upper  
168 100  
99 52.8 45.4 68.0



#2  
Dichlorodifluoromethane  
Concen: 3.923 ug/l  
RT: 2.007 min Scan# 17  
Delta R.T. -0.001 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



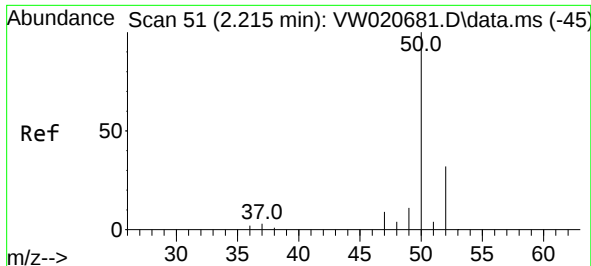
Tgt Ion: 85 Resp: 974  
Ion Ratio Lower Upper  
85 100  
87 32.4 16.7 50.0



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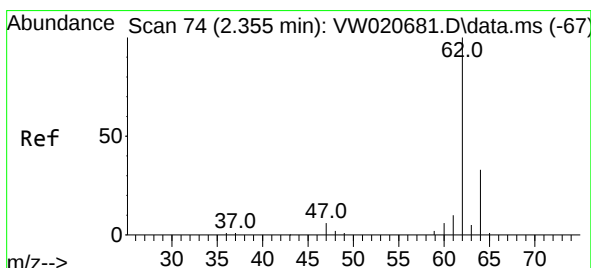
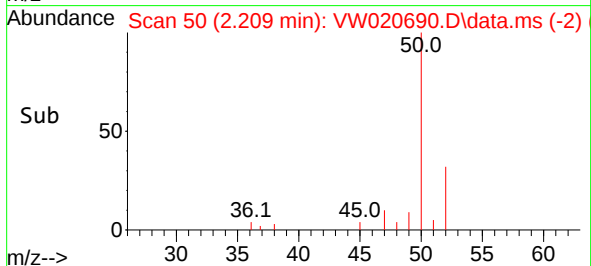
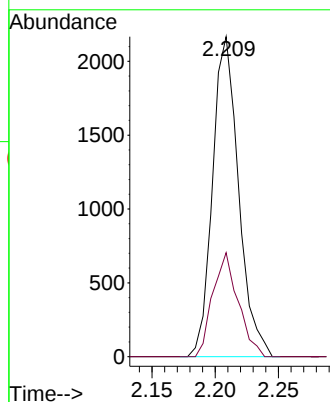
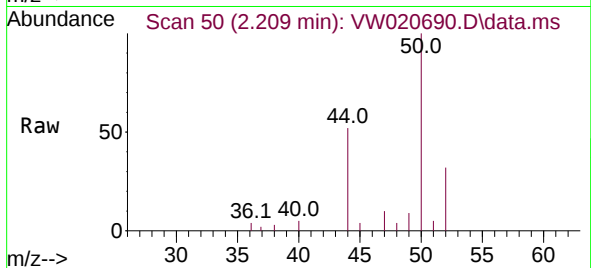
#3  
Chloromethane  
Concen: 4.969 ug/l  
RT: 2.209 min Scan# 50  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 50 Resp: 3098  
Ion Ratio Lower Upper  
50 100  
52 32.5 25.9 38.9

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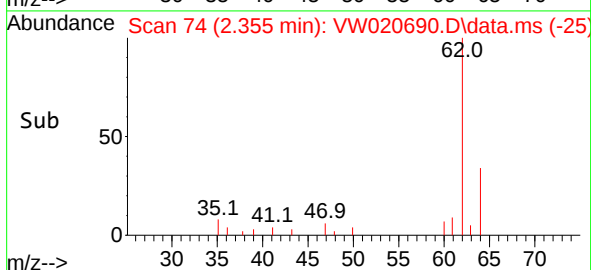
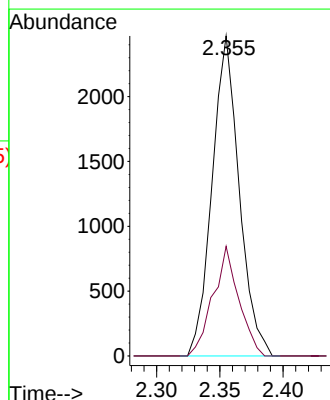
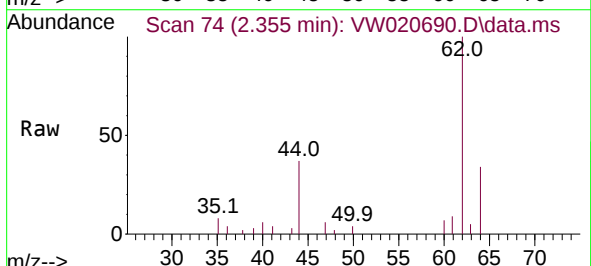
Manual Integrations  
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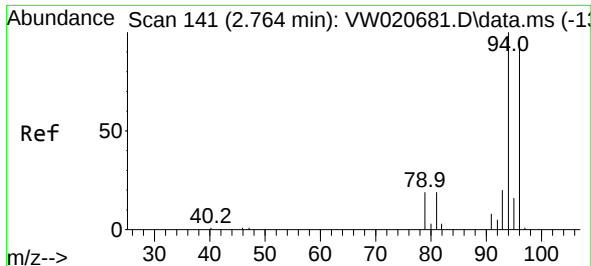
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10/25/2021 11:56:25 AM



#4  
Vinyl Chloride  
Concen: 4.593 ug/l  
RT: 2.355 min Scan# 74  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

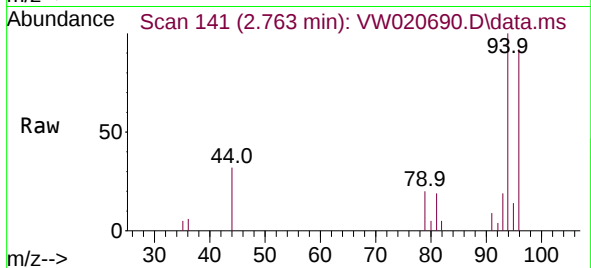
Tgt Ion: 62 Resp: 3673  
Ion Ratio Lower Upper  
62 100  
64 34.2 26.6 40.0





#5  
Bromomethane  
Concen: 5.230 ug/l  
RT: 2.763 min Scan# 141  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

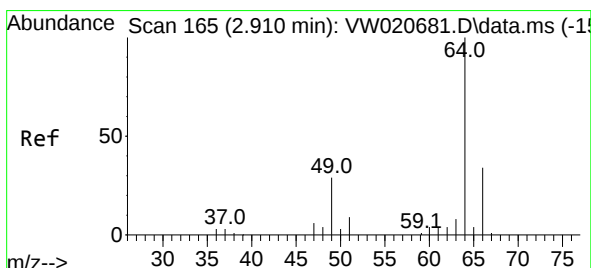
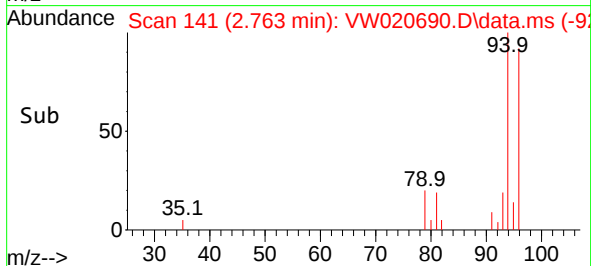
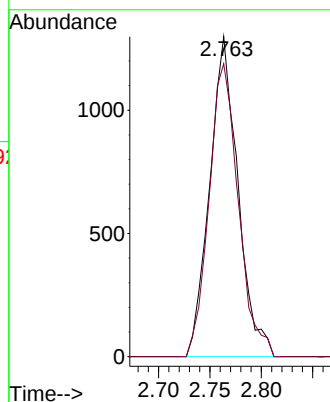
Instrument :  
MSVOA\_W  
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LOQ-SOIL-02-QT4-2021



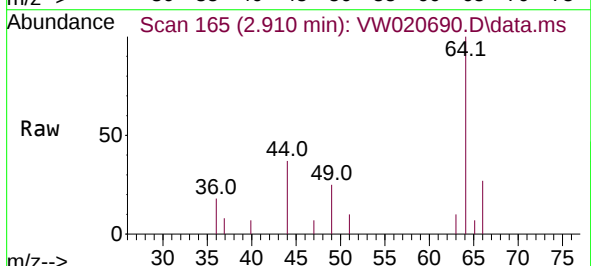
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Ion Ratio Lower Upper  
94 100  
96 91.5 76.7 115.1

Manual Integrations  
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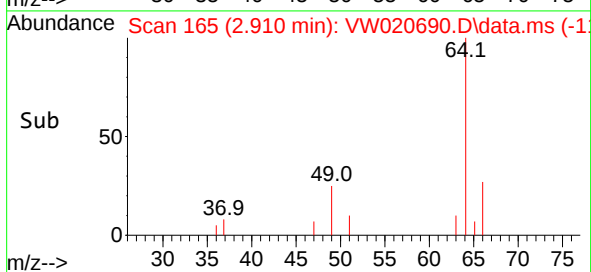
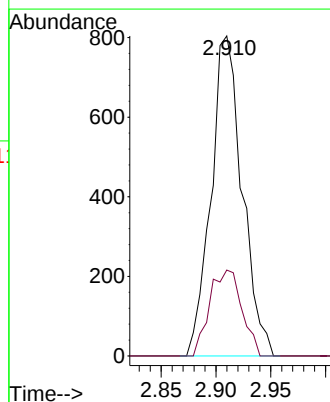
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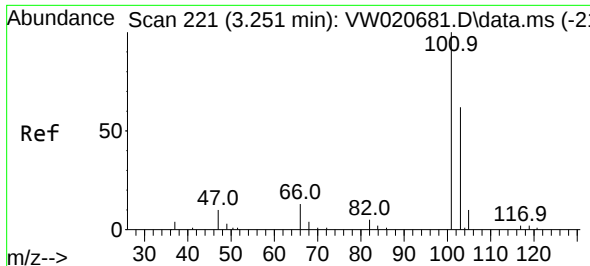


#6  
Chloroethane  
Concen: 4.466 ug/l  
RT: 2.910 min Scan# 165  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion: 64 Resp: 1587  
Ion Ratio Lower Upper  
64 100  
66 26.9 27.0 40.4#





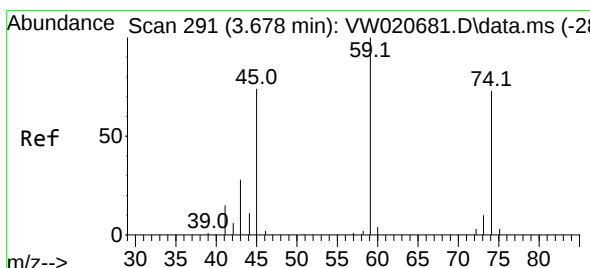
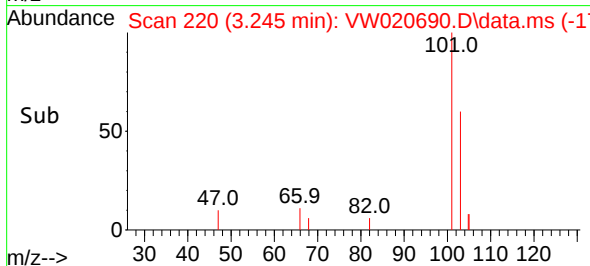
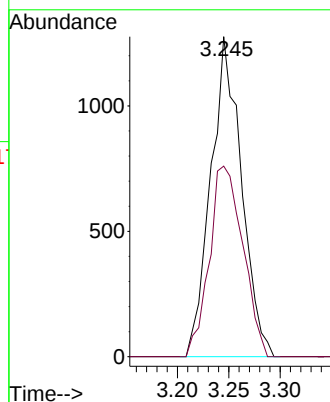
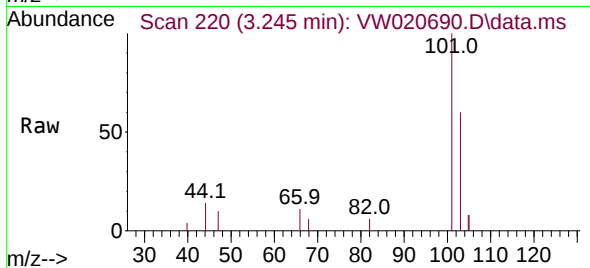
#7  
Trichlorofluoromethane  
Concen: 4.623 ug/l  
RT: 3.245 min Scan# 220  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 101 Resp: 2645  
Ion Ratio Lower Upper  
101 100  
103 59.6 49.4 74.0

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

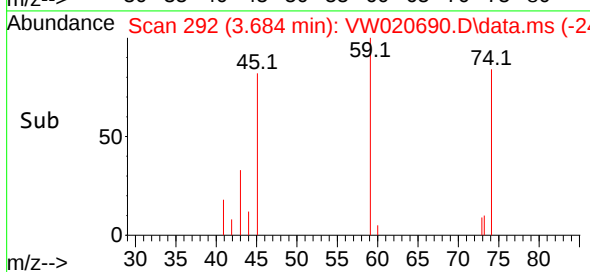
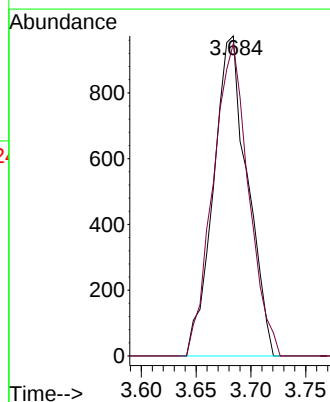
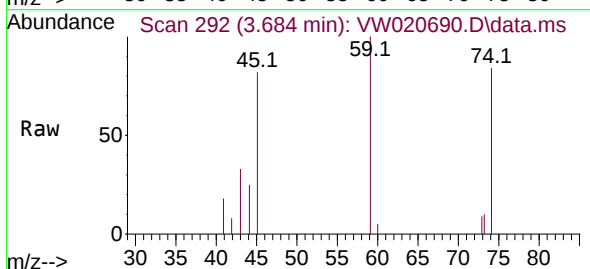
Manual Integrations  
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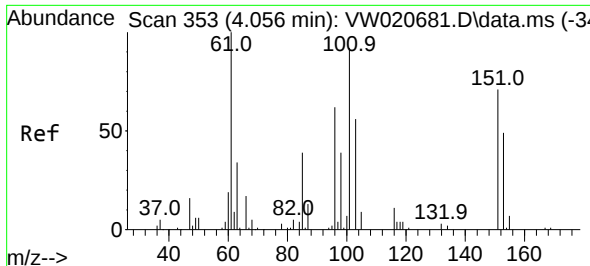
MMDadoda  
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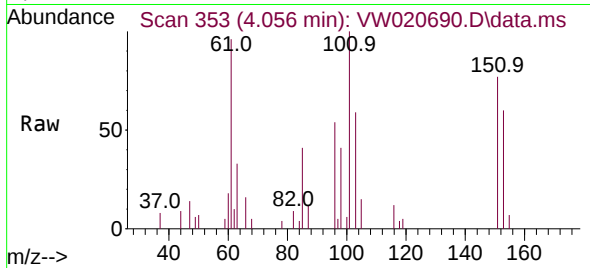
#8  
Diethyl Ether  
Concen: 4.605 ug/l  
RT: 3.684 min Scan# 292  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 74 Resp: 2102  
Ion Ratio Lower Upper  
74 100  
45 101.7 50.0 150.1

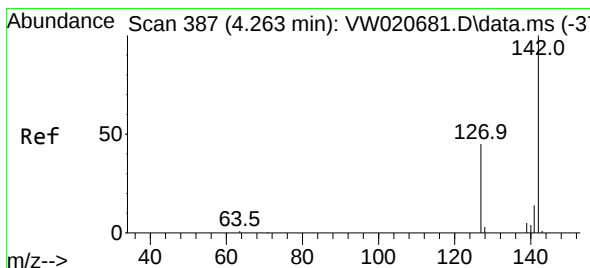
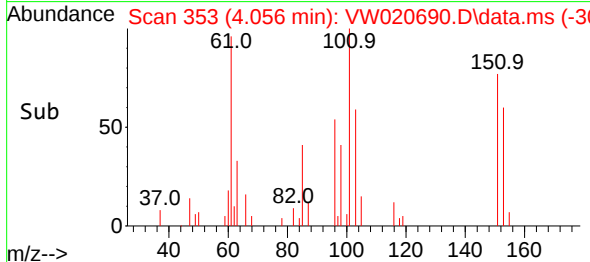
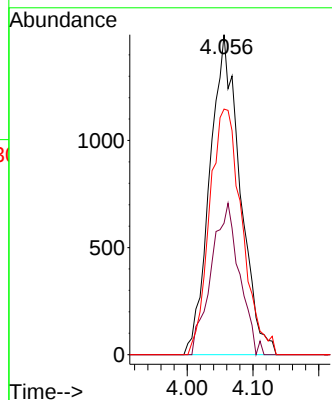




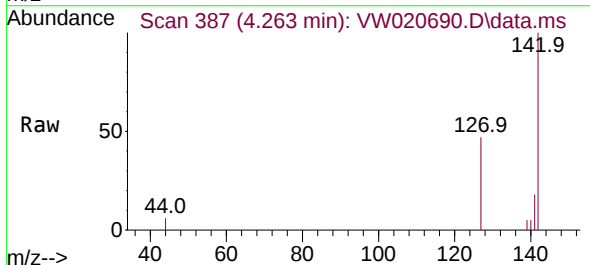
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.097 ug/l  
RT: 4.056 min Scan# 353  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



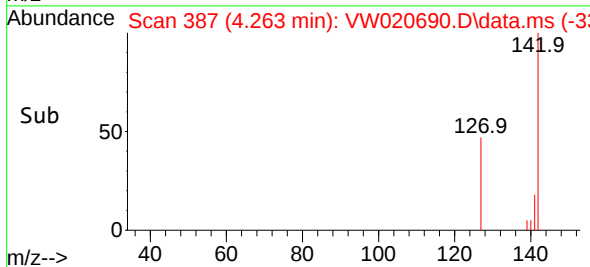
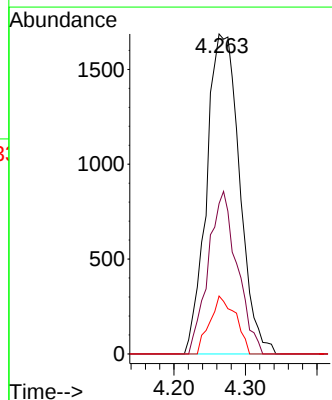
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 4786  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 44.1  | 34.9  | 52.3  |
| 151      | 82.2  | 64.5  | 96.7  |



#10  
Methyl Iodide  
Concen: 4.618 ug/l  
RT: 4.263 min Scan# 387  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



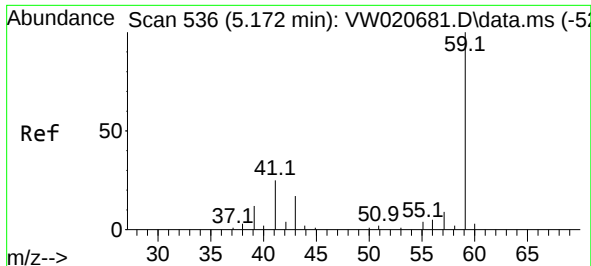
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 5383  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 44.8  | 35.8  | 53.6  |
| 141      | 14.1  | 11.8  | 17.6  |



Instrument :  
MSVOA\_W  
ClientSampleId :  
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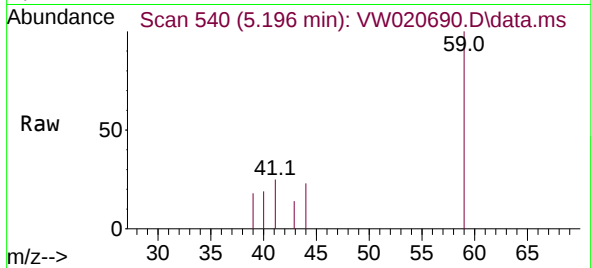
Manual Integrations  
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#11  
Tert butyl alcohol  
Concen: 22.289 ug/l  
RT: 5.196 min Scan# 540  
Delta R.T. 0.024 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

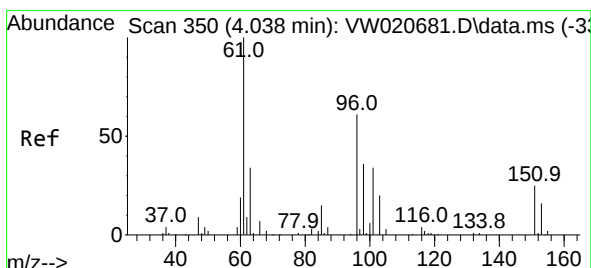
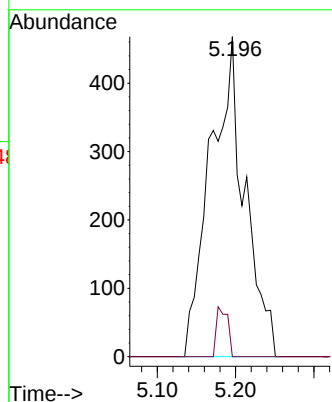
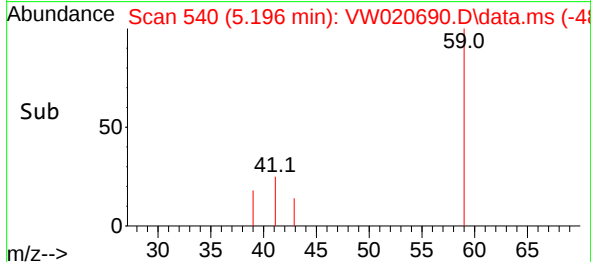
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



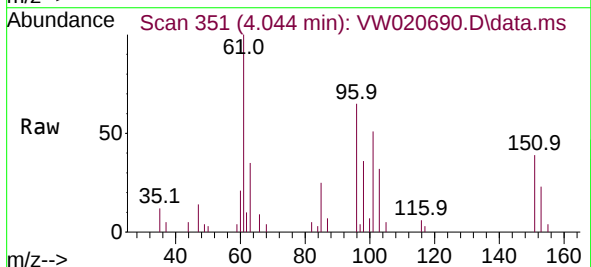
Tgt Ion: 59 Resp: 1429  
Ion Ratio Lower Upper  
59 100  
57 5.0 4.2 6.2

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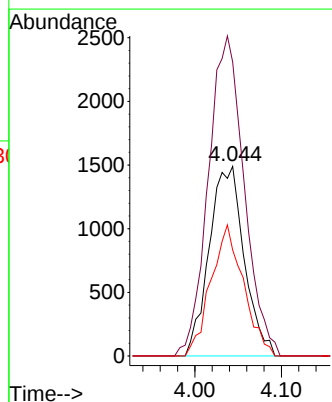
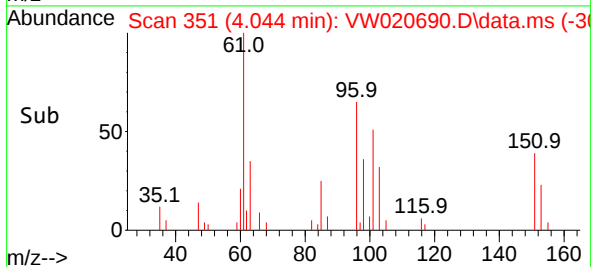
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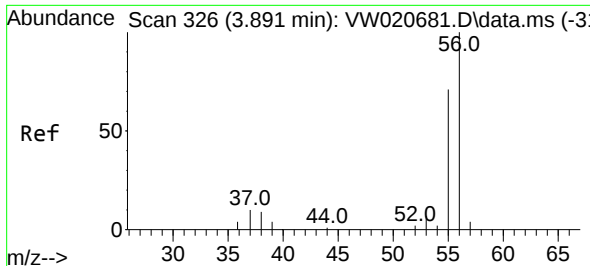


#12  
1,1-Dichloroethene  
Concen: 4.766 ug/l  
RT: 4.044 min Scan# 351  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



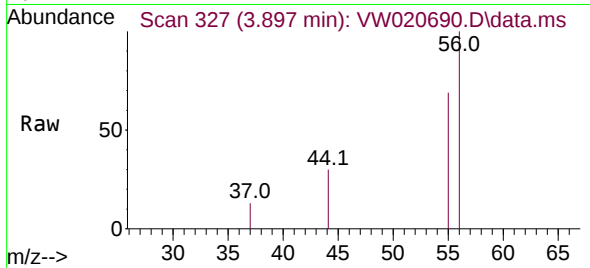
Tgt Ion: 96 Resp: 4179  
Ion Ratio Lower Upper  
96 100  
61 155.0 131.0 196.6  
98 55.8 47.8 71.6





#13  
Acrolein  
Concen: 25.874 ug/l  
RT: 3.897 min Scan# 327  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

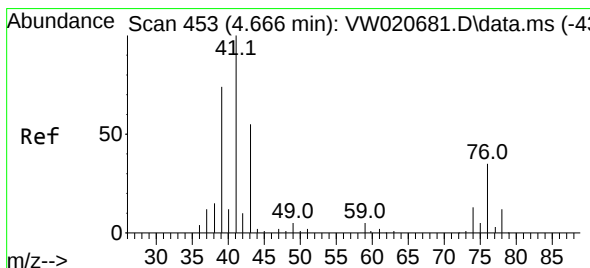
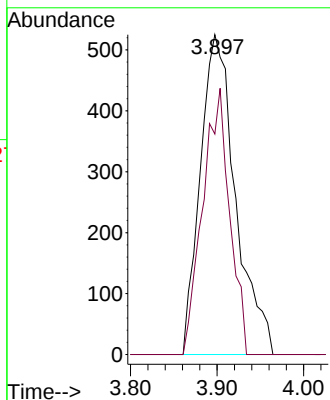
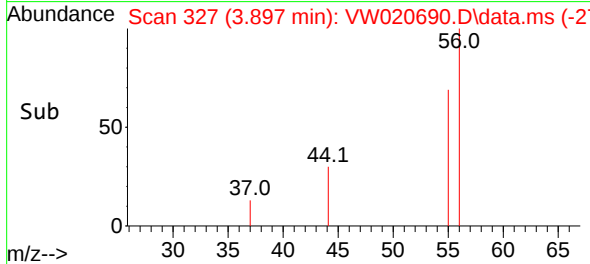
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



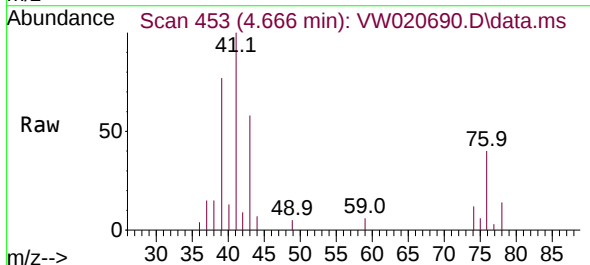
Tgt Ion: 56 Resp: 1485  
Ion Ratio Lower Upper  
56 100  
55 63.4 55.5 83.3

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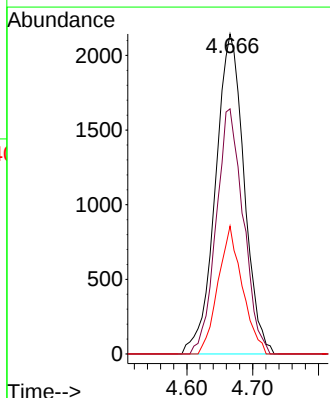
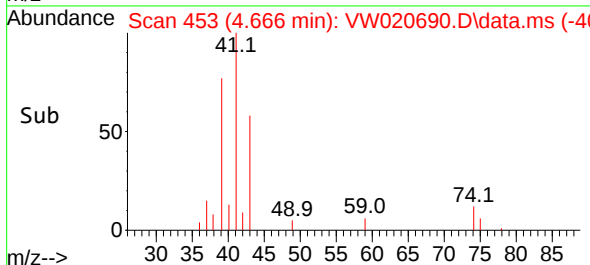
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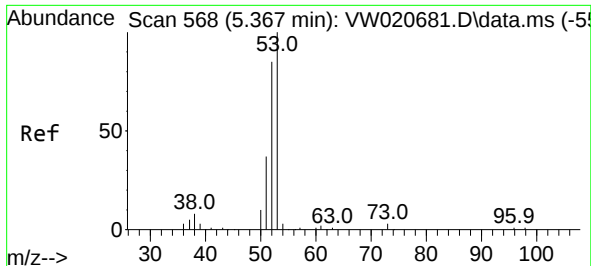


#14  
Allyl chloride  
Concen: 4.596 ug/l  
RT: 4.666 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



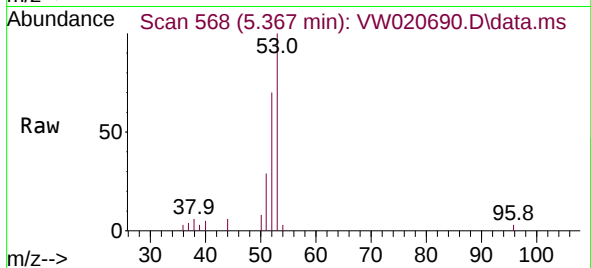
Tgt Ion: 41 Resp: 6507  
Ion Ratio Lower Upper  
41 100  
39 72.6 57.1 85.7  
76 33.9 27.1 40.7





#15  
Acrylonitrile  
Concen: 25.325 ug/l  
RT: 5.367 min Scan# 568  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

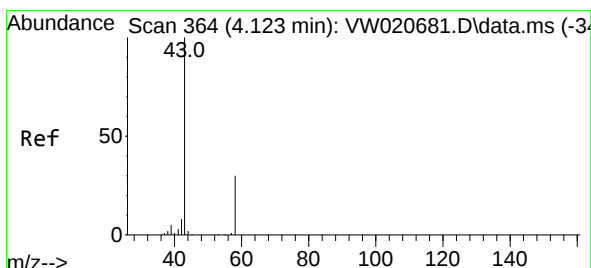
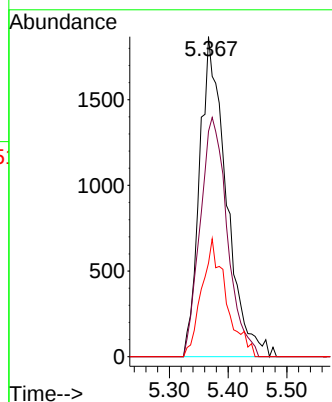
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



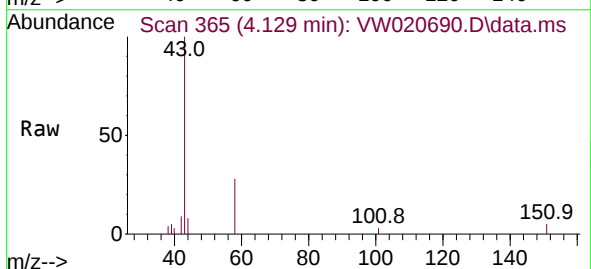
| Tgt Ion: | 53    | Resp: | 5896  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 75.9  | 66.8  | 100.2 |
| 51       | 34.0  | 30.1  | 45.1  |

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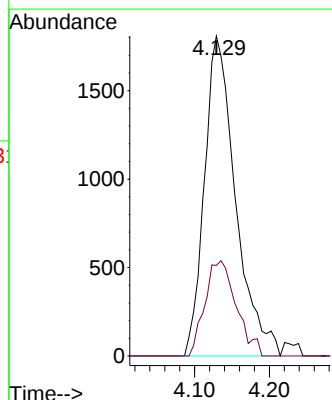
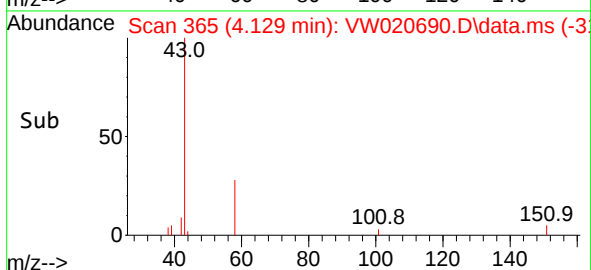
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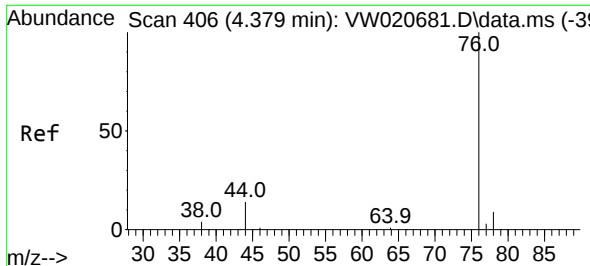


#16  
Acetone  
Concen: 20.454 ug/l  
RT: 4.129 min Scan# 365  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

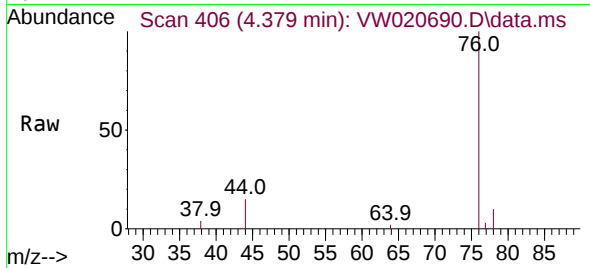


| Tgt Ion: | 43    | Resp: | 5233  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 28.3  | 24.2  | 36.2  |

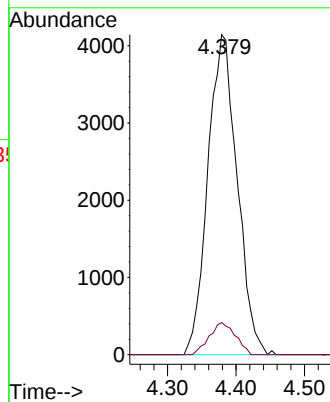
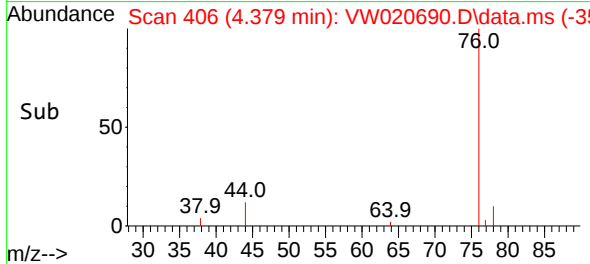




#17  
Carbon Disulfide  
Concen: 4.826 ug/l  
RT: 4.379 min Scan# 406  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



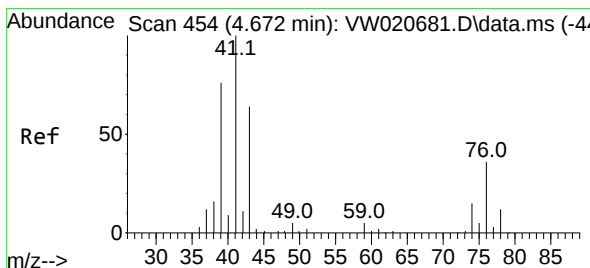
Tgt Ion: 76 Resp: 12298  
Ion Ratio Lower Upper  
76 100  
78 10.0 7.2 10.8



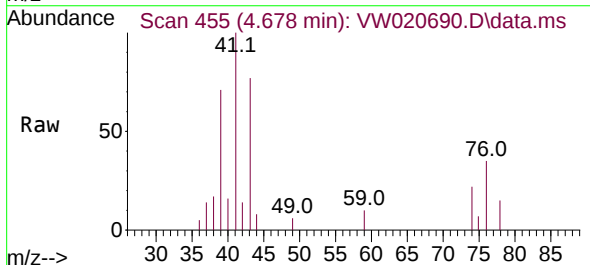
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

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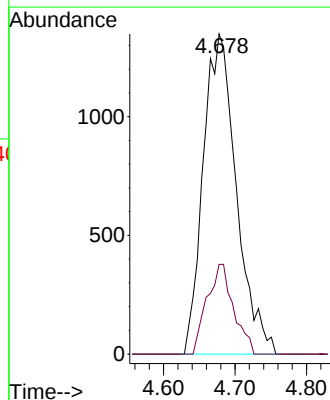
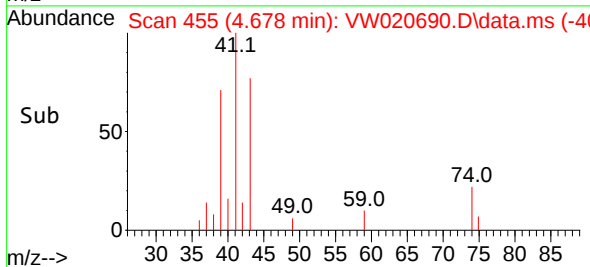
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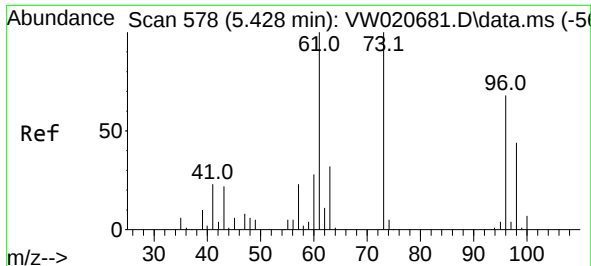


#18  
Methyl Acetate  
Concen: 5.492 ug/l  
RT: 4.678 min Scan# 455  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion: 43 Resp: 4338  
Ion Ratio Lower Upper  
43 100  
74 22.4 18.7 28.1





#19

Methyl tert-butyl Ether

Concen: 4.793 ug/l

RT: 5.428 min Scan# 578

Delta R.T. -0.000 min

Lab File: VW020690.D

Acq: 22 Oct 2021 18:49

Tgt Ion: 73 Resp: 7209

Ion Ratio Lower Upper

73 100

57 25.7 18.2 27.4

Instrument :

MSVOA\_W

ClientSampleId :

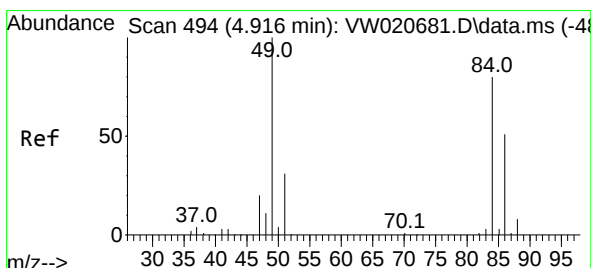
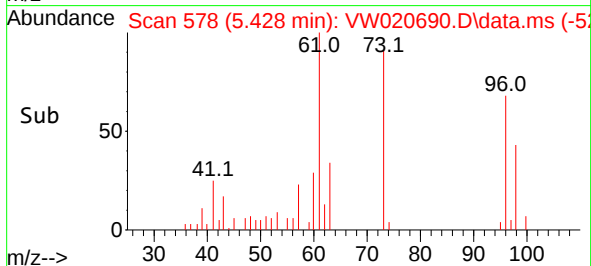
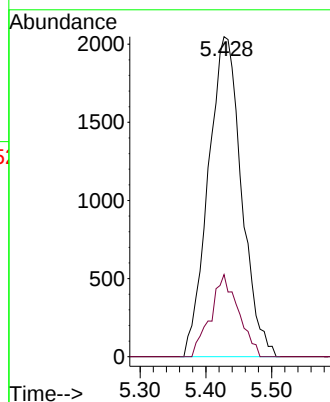
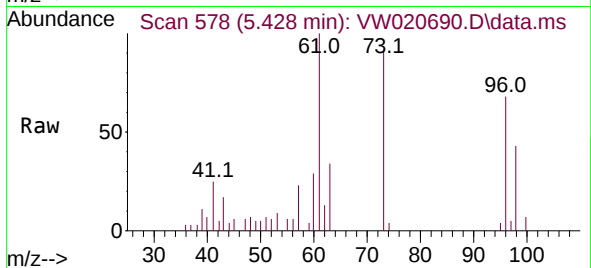
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#20

Methylene Chloride

Concen: 10.245 ug/l

RT: 4.909 min Scan# 493

Delta R.T. -0.007 min

Lab File: VW020690.D

Acq: 22 Oct 2021 18:49

Tgt Ion: 84 Resp: 13213

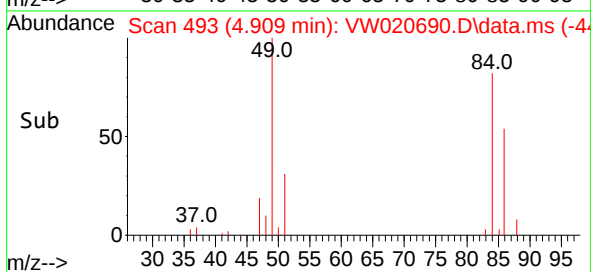
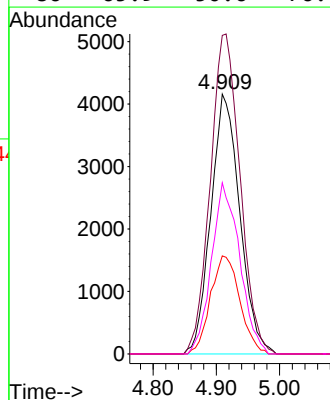
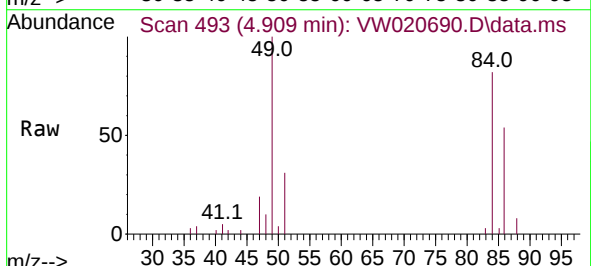
Ion Ratio Lower Upper

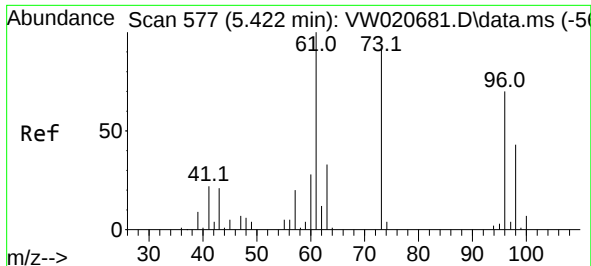
84 100

49 122.6 100.0 150.0

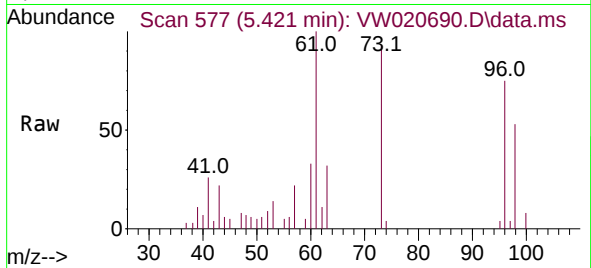
51 37.7 30.8 46.2

86 65.9 50.6 76.0



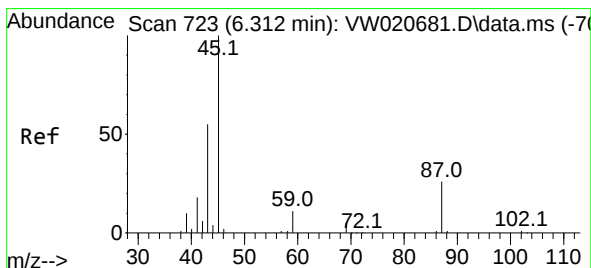
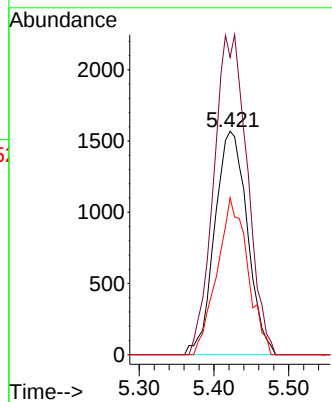
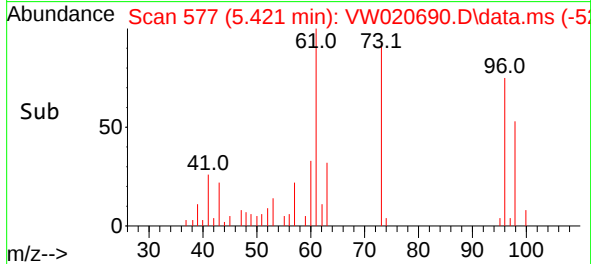


#21  
trans-1,2-Dichloroethene  
Concen: 4.857 ug/l  
RT: 5.421 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

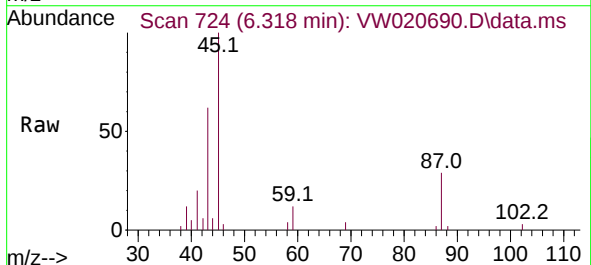


Tgt Ion: 96 Resp: 4756

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 133.2 | 113.5 | 170.3 |
| 98  | 70.2  | 48.6  | 72.8  |

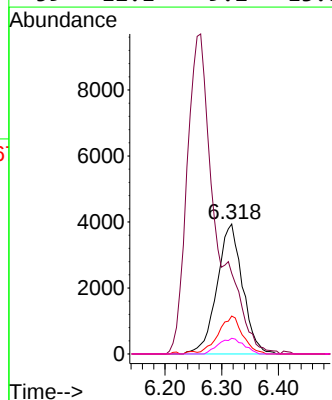
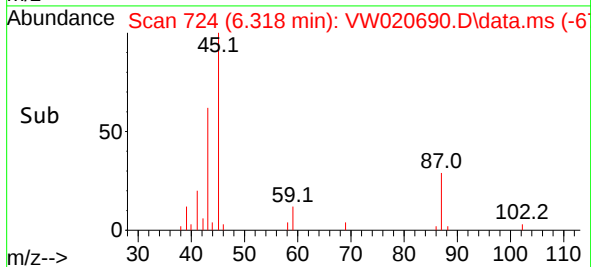


#22  
Diisopropyl ether  
Concen: 4.438 ug/l  
RT: 6.318 min Scan# 724  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion: 45 Resp: 12294

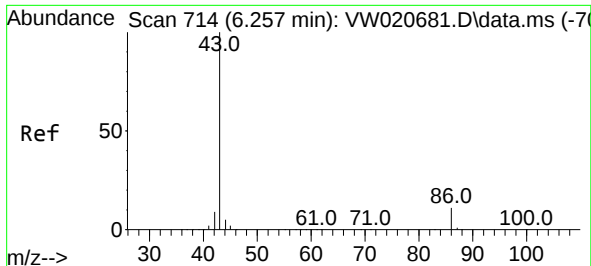
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 62.0  | 45.1  | 67.7  |
| 87  | 29.1  | 21.2  | 31.8  |
| 59  | 12.1  | 9.2   | 13.8  |



Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

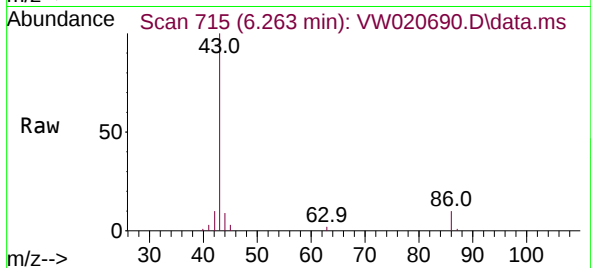
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#23  
 Vinyl Acetate  
 Concen: 21.249 ug/l  
 RT: 6.263 min Scan# 715  
 Delta R.T. 0.006 min  
 Lab File: VW020690.D  
 Acq: 22 Oct 2021 18:49

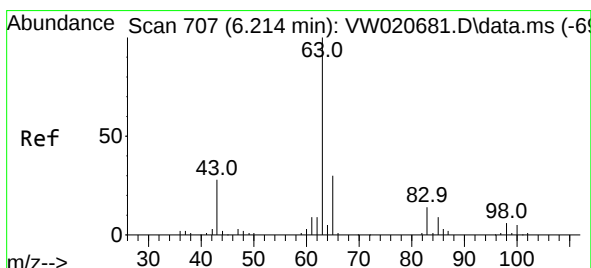
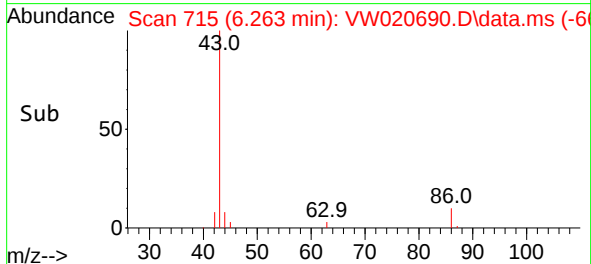
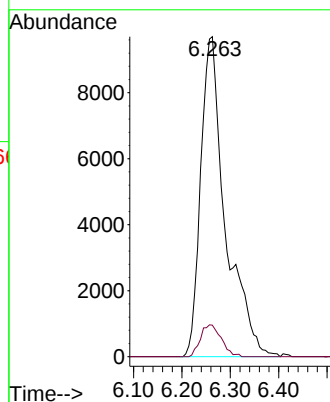
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2021



Tgt Ion: 43 Resp: 34475  
 Ion Ratio Lower Upper  
 43 100  
 86 9.9 8.5 12.7

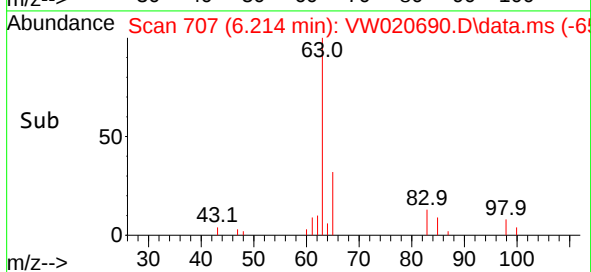
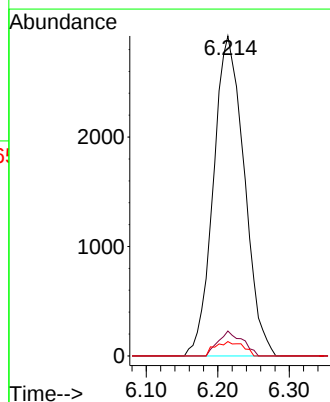
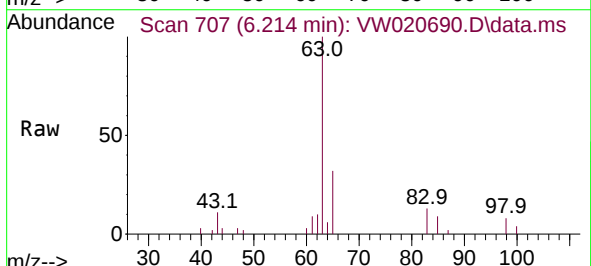
Manual Integrations  
 APPROVED

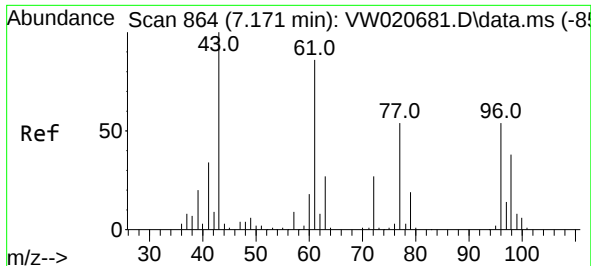
MMDadoda  
 10/25/2021 11:56:25 AM



#24  
 1,1-Dichloroethane  
 Concen: 4.937 ug/l  
 RT: 6.214 min Scan# 707  
 Delta R.T. -0.000 min  
 Lab File: VW020690.D  
 Acq: 22 Oct 2021 18:49

Tgt Ion: 63 Resp: 8743  
 Ion Ratio Lower Upper  
 63 100  
 98 7.8 3.2 9.6  
 100 4.5 2.3 6.8





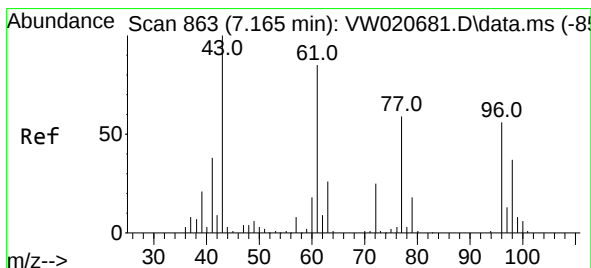
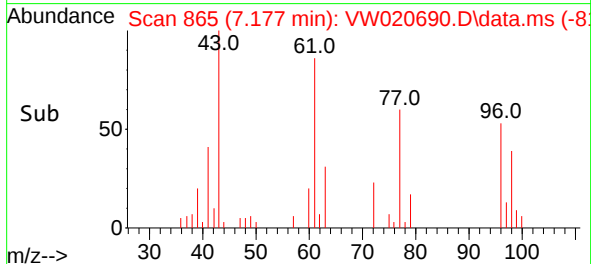
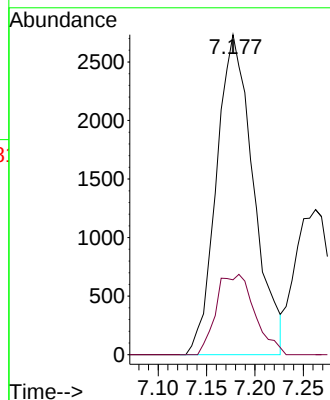
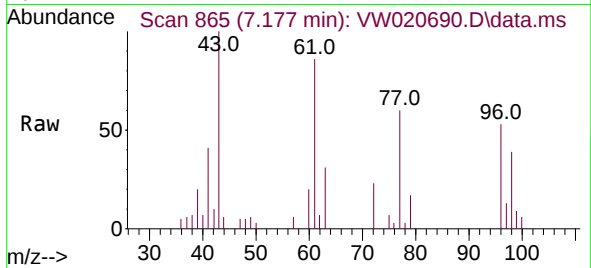
#25  
2-Butanone  
Concen: 22.746 ug/l  
RT: 7.177 min Scan# 865  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 43 Resp: 7262  
Ion Ratio Lower Upper  
43 100  
72 23.4 21.4 32.0

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

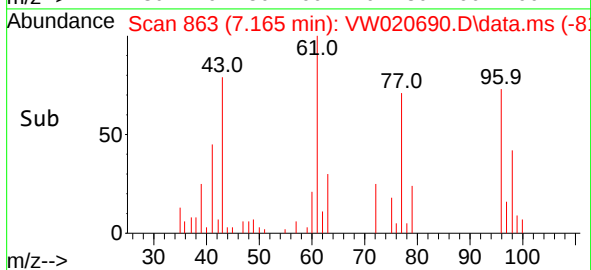
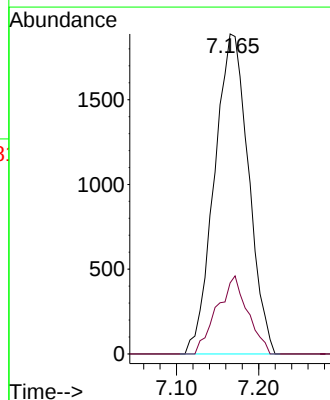
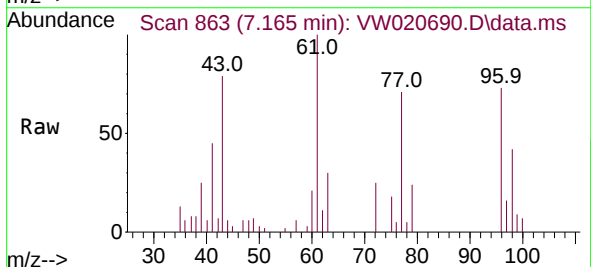
Manual Integrations  
APPROVED

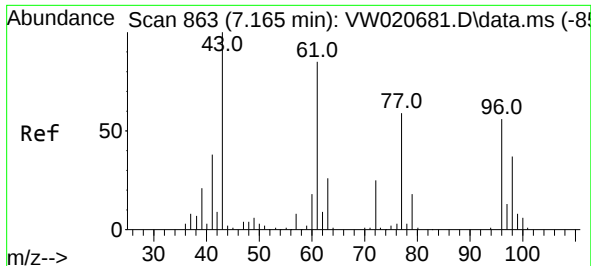
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#26  
2,2-Dichloropropane  
Concen: 4.691 ug/l  
RT: 7.165 min Scan# 863  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 77 Resp: 5437  
Ion Ratio Lower Upper  
77 100  
97 22.0 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 4.643 ug/l

RT: 7.165 min Scan# 863

Delta R.T. -0.000 min

Lab File: VW020690.D

Acq: 22 Oct 2021 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 4846  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 151.0 | 0.0   | 298.0 |
| 98       | 65.8  | 0.0   | 129.4 |

Instrument :

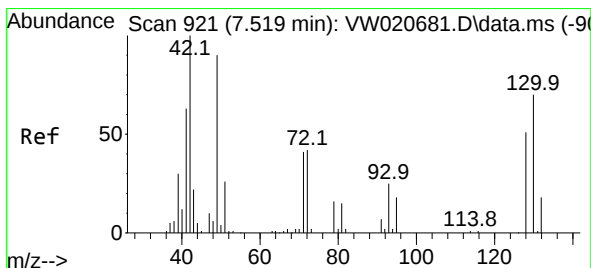
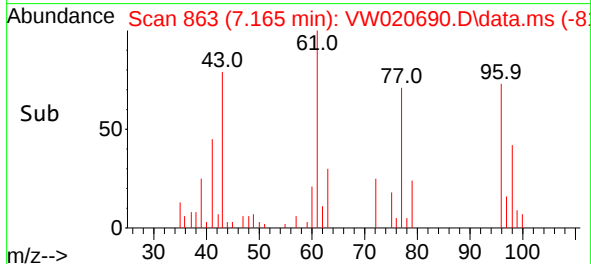
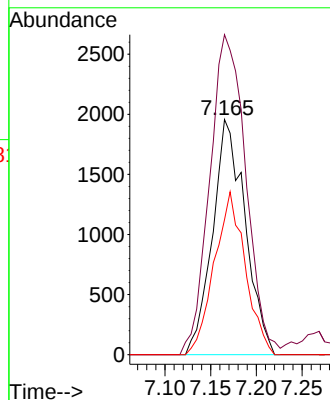
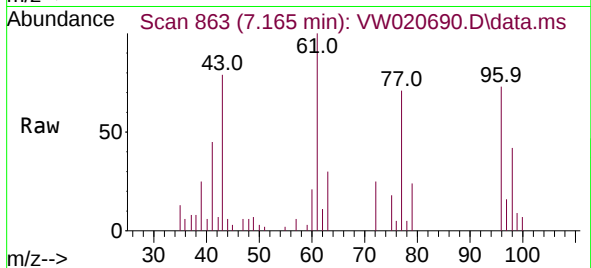
MSVOA\_W

ClientSampleId :

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#28

Bromochloromethane

Concen: 5.388 ug/l

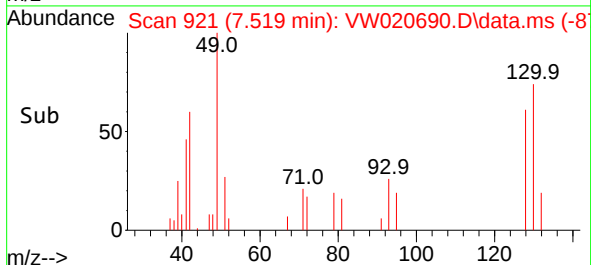
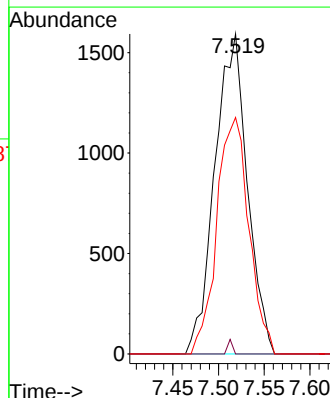
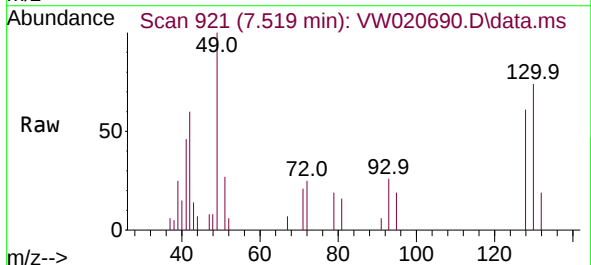
RT: 7.519 min Scan# 921

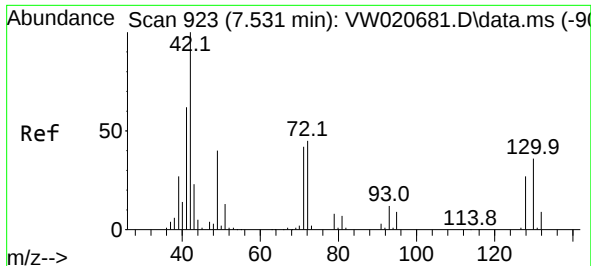
Delta R.T. -0.000 min

Lab File: VW020690.D

Acq: 22 Oct 2021 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 3945  |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 0.7   | 0.0   | 0.0#  |
| 130      | 72.7  | 63.0  | 94.6  |





#29

Tetrahydrofuran

Concen: 23.304 ug/l

RT: 7.537 min Scan# 924

Delta R.T. 0.006 min

Lab File: VW020690.D

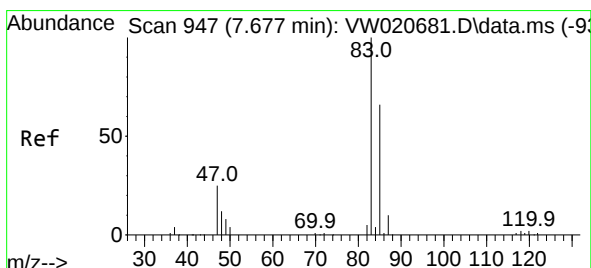
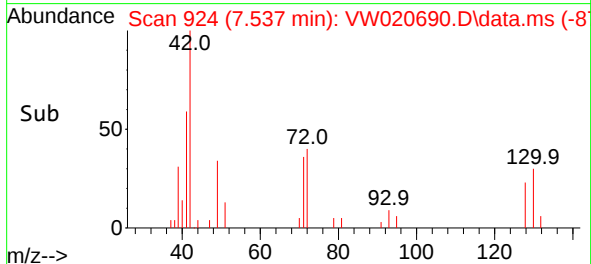
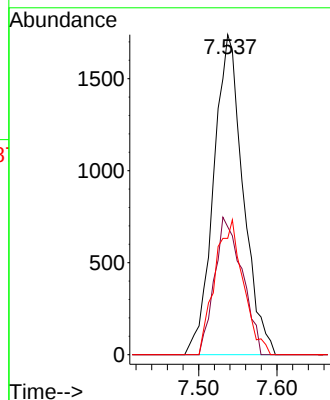
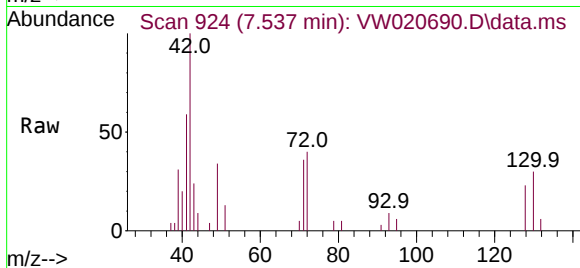
Acq: 22 Oct 2021 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 4552  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 40.2  | 35.0  | 52.6  |
| 71       | 40.5  | 32.2  | 48.4  |

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Manual Integrations  
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#30

Chloroform

Concen: 5.039 ug/l

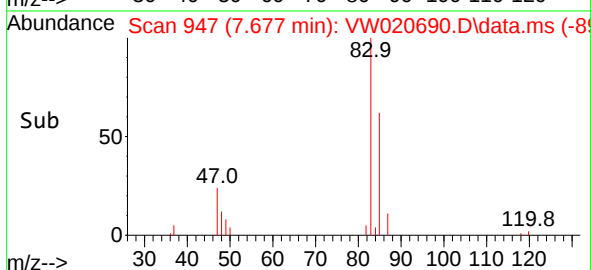
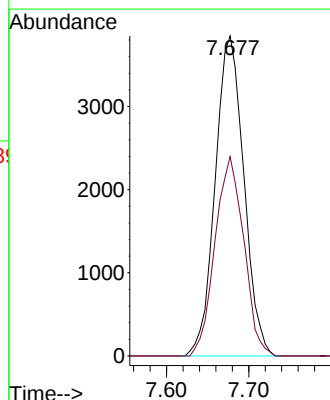
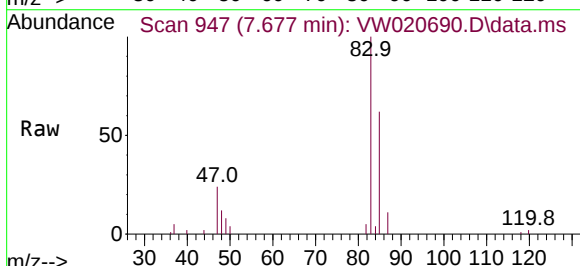
RT: 7.677 min Scan# 947

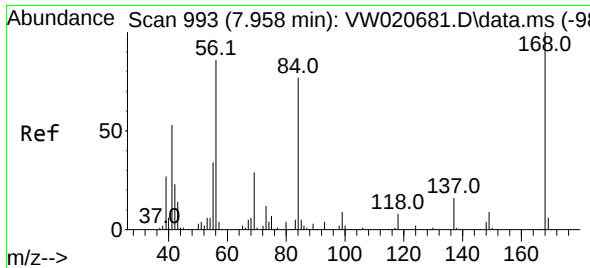
Delta R.T. -0.000 min

Lab File: VW020690.D

Acq: 22 Oct 2021 18:49

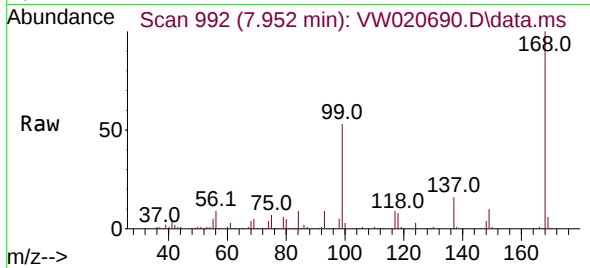
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 9309  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 62.3  | 52.9  | 79.3  |





#31  
Cyclohexane  
Concen: 5.435 ug/l  
RT: 7.952 min Scan# 992  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

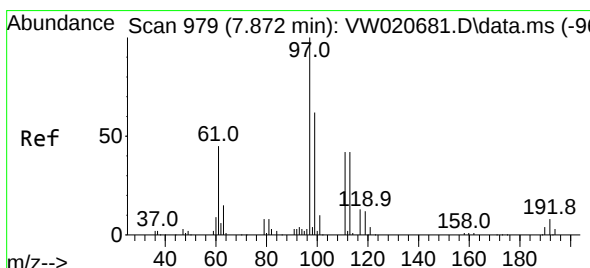
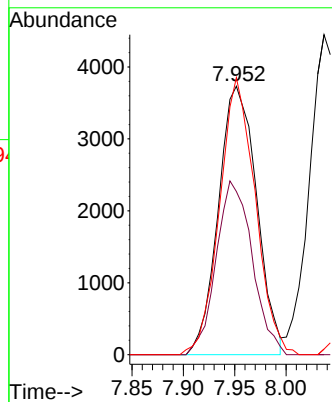
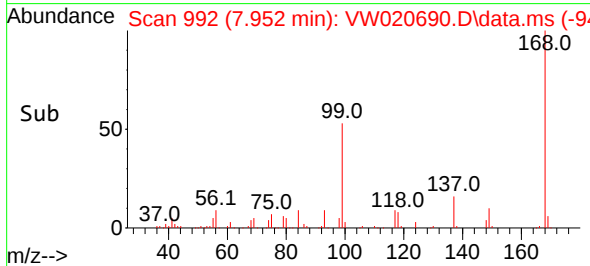
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



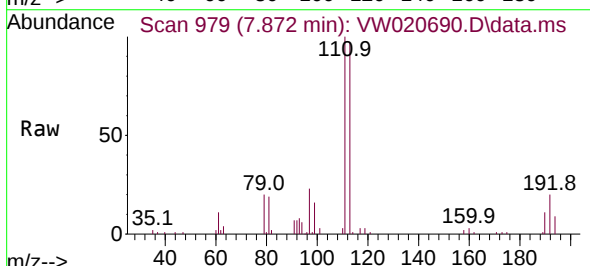
Tgt Ion: 56 Resp: 9656  
Ion Ratio Lower Upper  
56 100  
69 60.8 27.2 40.8#  
84 103.2 71.8 107.6

Manual Integrations  
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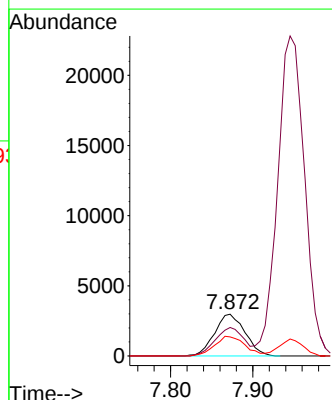
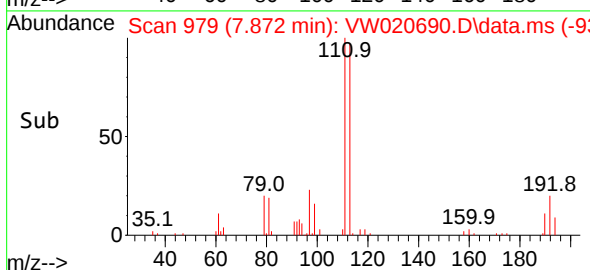
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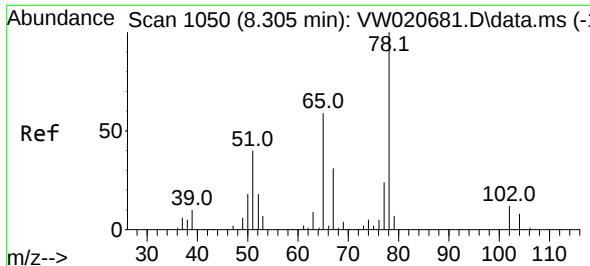


#32  
1,1,1-Trichloroethane  
Concen: 4.900 ug/l  
RT: 7.872 min Scan# 979  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion: 97 Resp: 7655  
Ion Ratio Lower Upper  
97 100  
99 63.0 50.6 75.8  
61 46.3 36.6 55.0





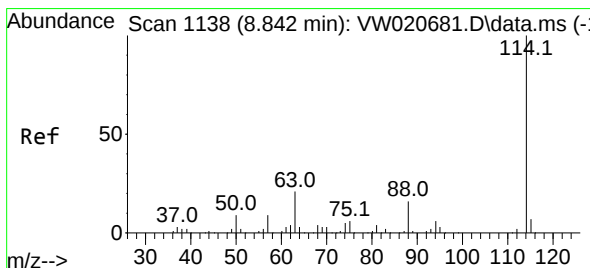
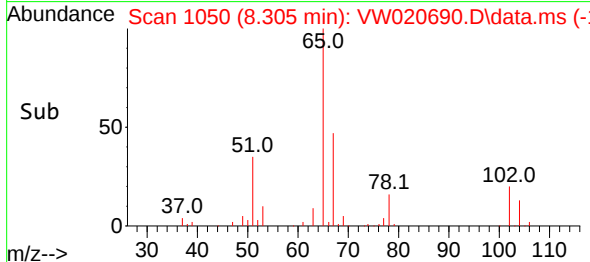
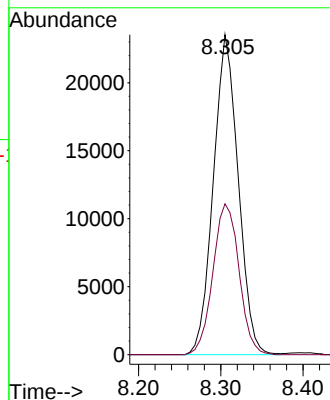
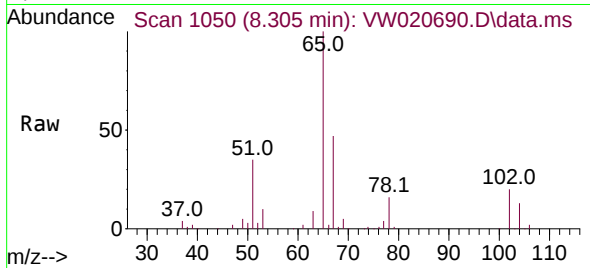
#33  
1,2-Dichloroethane-d4  
Concen: 47.263 ug/l  
RT: 8.305 min Scan# 1050  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 65 Resp: 49479  
Ion Ratio Lower Upper  
65 100  
67 49.5 0.0 102.2

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

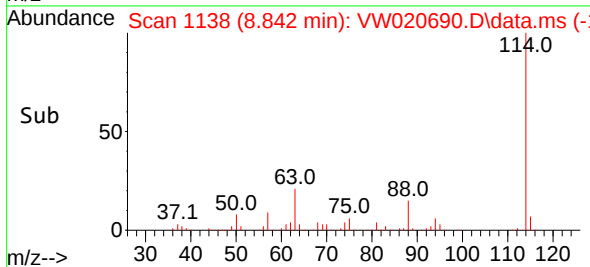
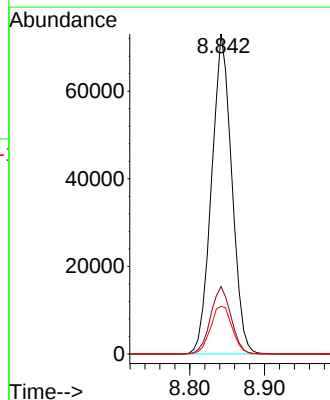
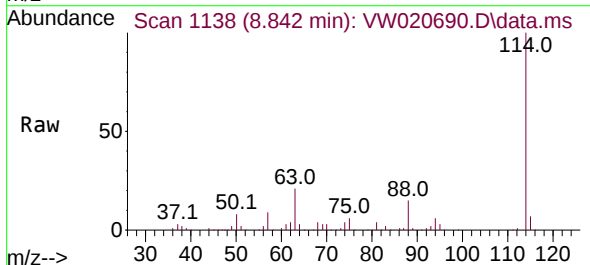
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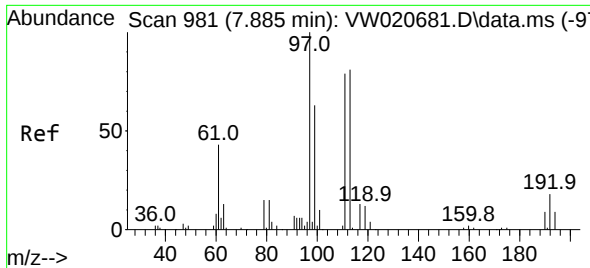
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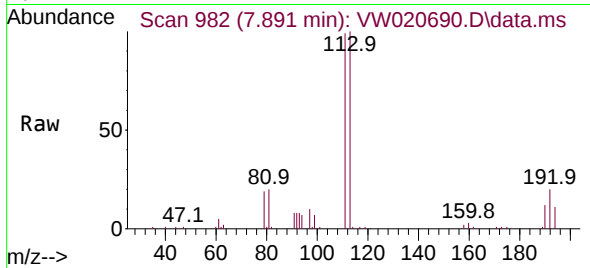
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.842 min Scan# 1138  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 114 Resp: 137023  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 42.8  
88 14.9 0.0 33.0

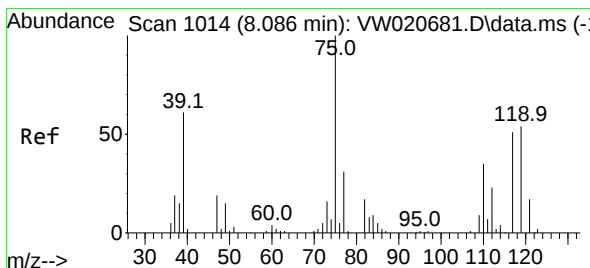
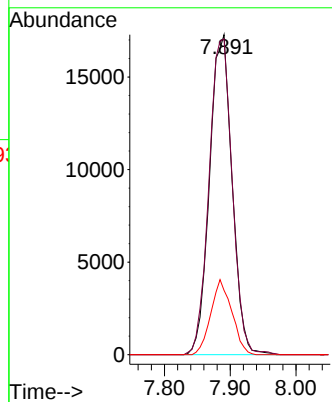
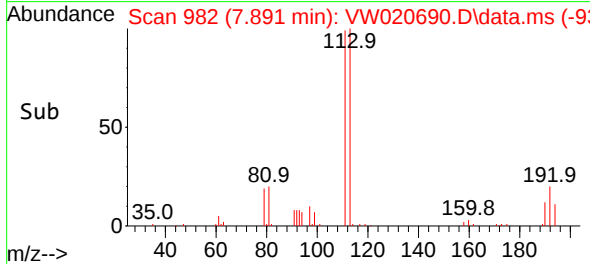




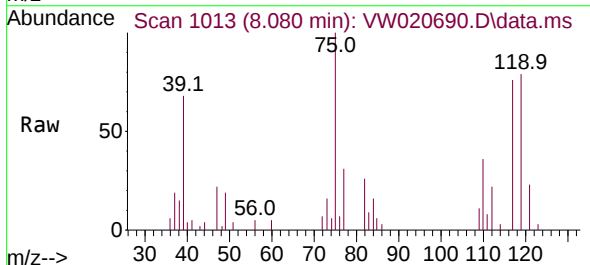
#35  
Dibromofluoromethane  
Concen: 45.981 ug/l  
RT: 7.891 min Scan# 982  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



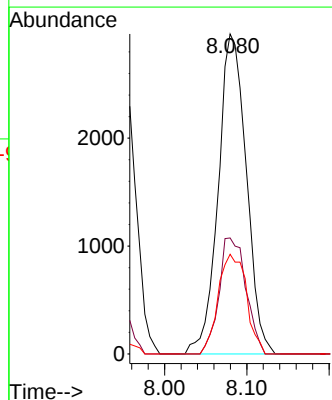
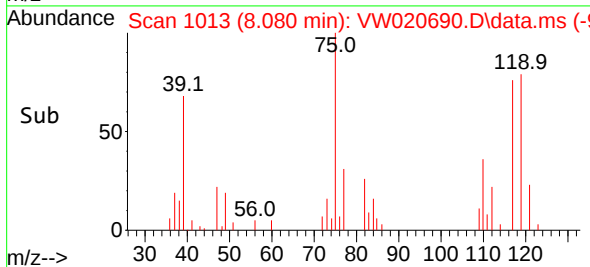
Tgt Ion: 113 Resp: 41204  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.1 123.1  
192 21.9 17.8 26.8



#36  
1,1-Dichloropropene  
Concen: 4.774 ug/l  
RT: 8.080 min Scan# 1013  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



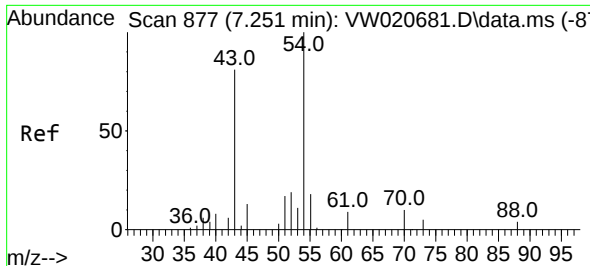
Tgt Ion: 75 Resp: 7045  
Ion Ratio Lower Upper  
75 100  
110 34.8 17.1 51.3  
77 31.1 24.9 37.3



Instrument :  
MSVOA\_W  
ClientSampleId :  
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Manual Integrations  
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#37

Ethyl Acetate

Concen: 5.142 ug/l

RT: 7.263 min Scan# 879

Delta R.T. 0.012 min

Lab File: VW020690.D

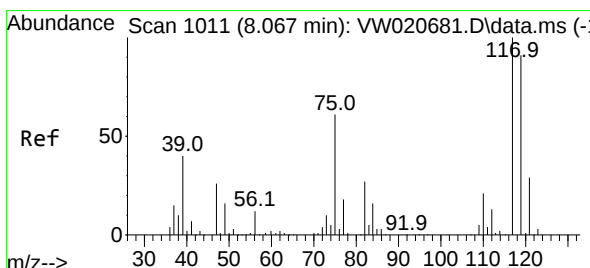
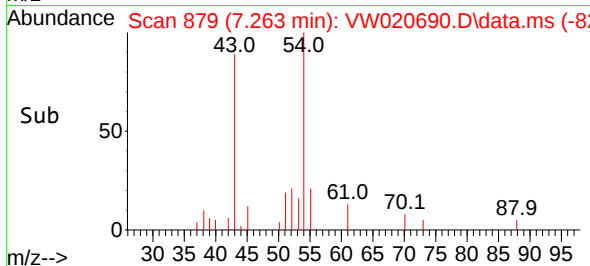
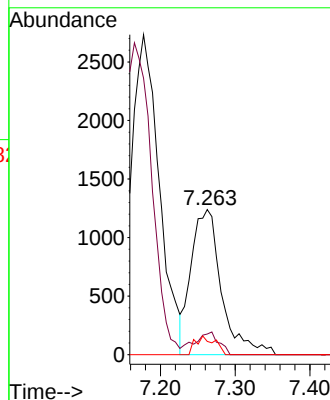
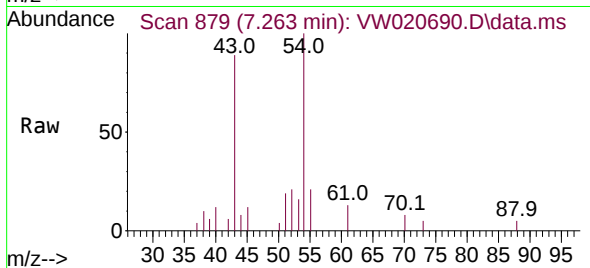
Acq: 22 Oct 2021 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3511  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 12.6  | 10.3  | 15.5  |
| 70       | 8.1   | 8.8   | 13.2# |

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Manual Integrations  
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#38

Carbon Tetrachloride

Concen: 4.890 ug/l

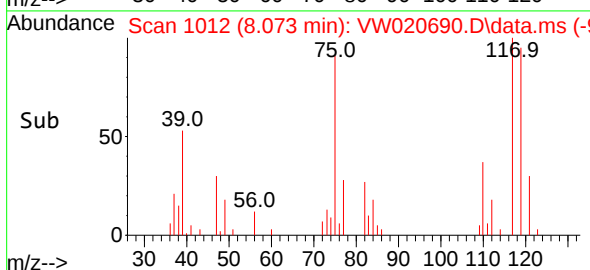
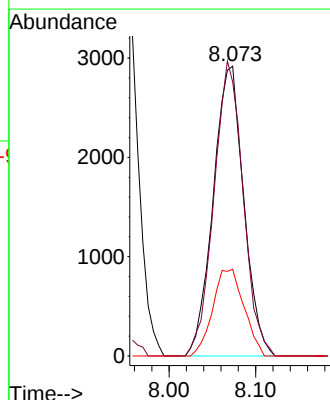
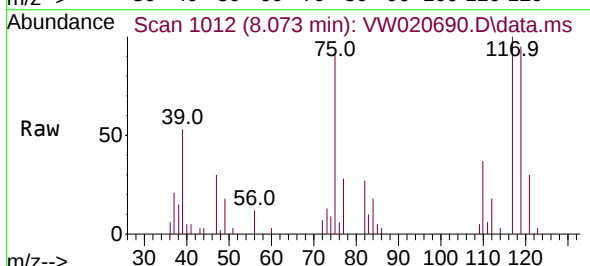
RT: 8.073 min Scan# 1012

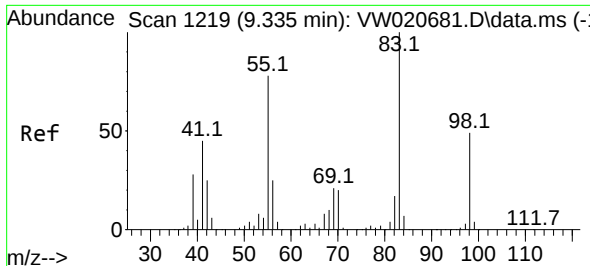
Delta R.T. 0.006 min

Lab File: VW020690.D

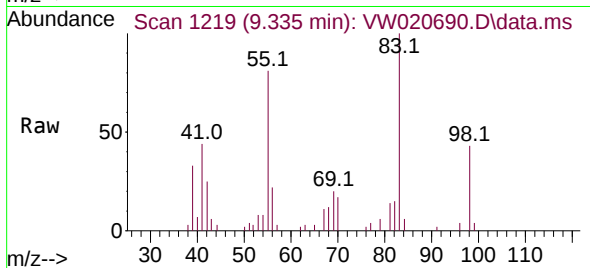
Acq: 22 Oct 2021 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 7155  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 94.6  | 72.9  | 109.3 |
| 121      | 30.0  | 23.4  | 35.0  |

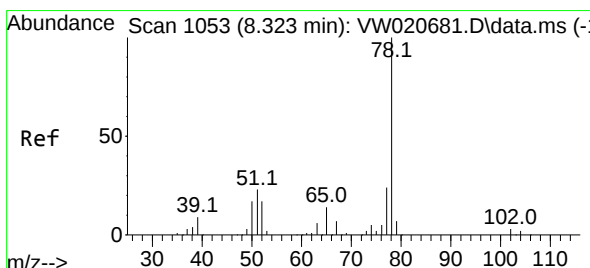
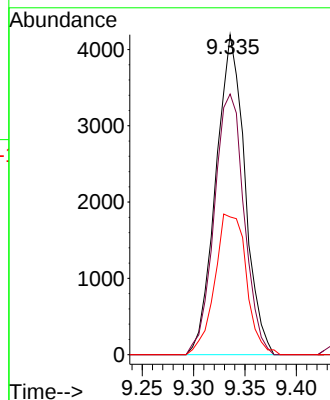
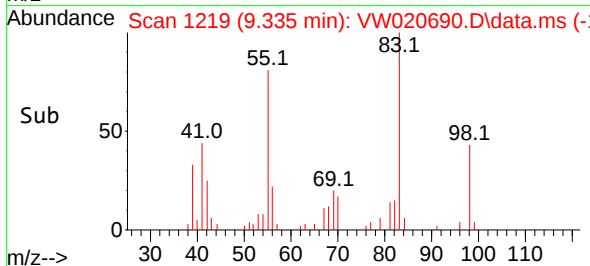




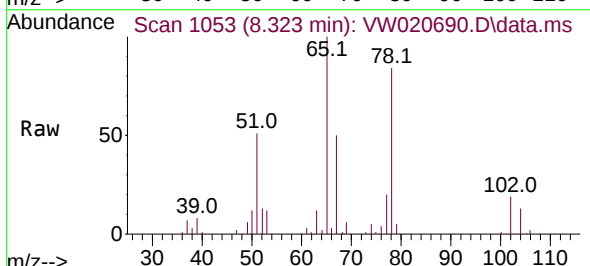
#39  
Methylcyclohexane  
Concen: 4.774 ug/l  
RT: 9.335 min Scan# 1219  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



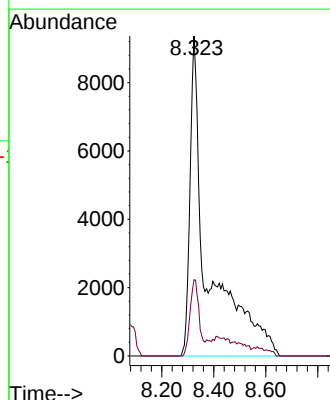
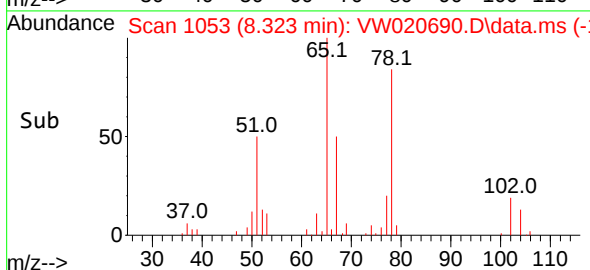
Tgt Ion: 83 Resp: 8214  
Ion Ratio Lower Upper  
83 100  
55 81.4 62.6 94.0  
98 43.0 38.8 58.2



#40  
Benzene  
Concen: 11.034 ug/l m  
RT: 8.323 min Scan# 1053  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



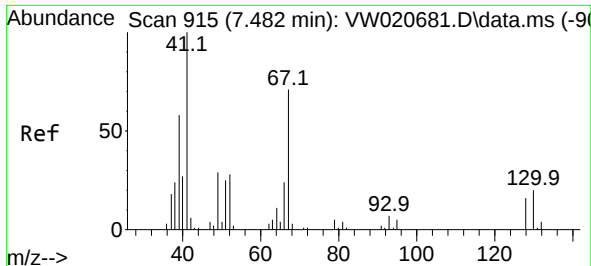
Tgt Ion: 78 Resp: 44560  
Ion Ratio Lower Upper  
78 100  
77 23.8 19.0 28.6



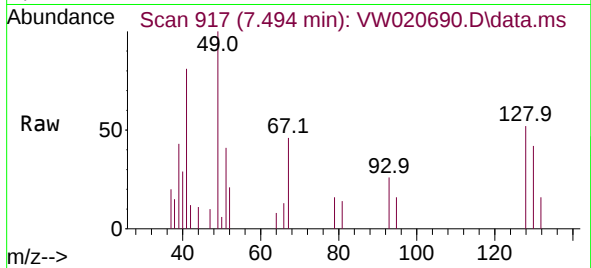
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

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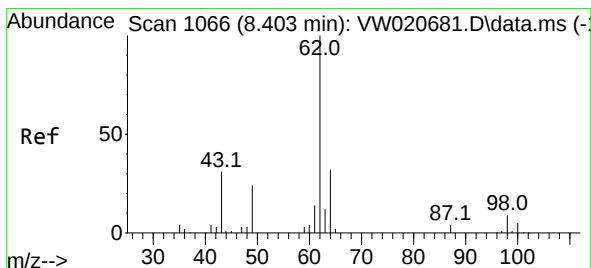
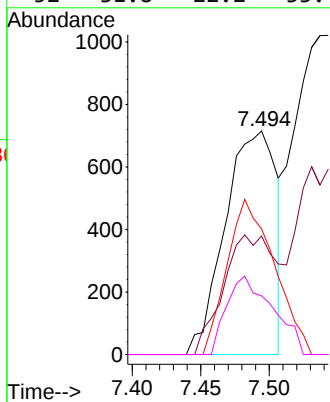
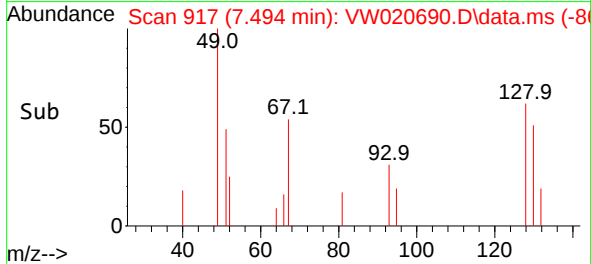
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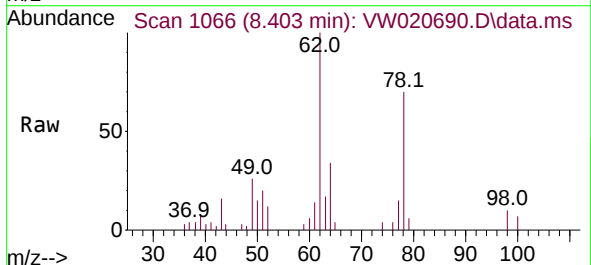
#41  
Methacrylonitrile  
Concen: 4.661 ug/l  
RT: 7.494 min Scan# 917  
Delta R.T. 0.012 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



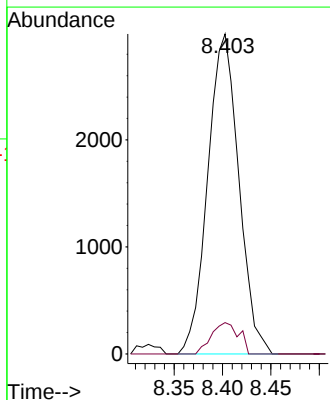
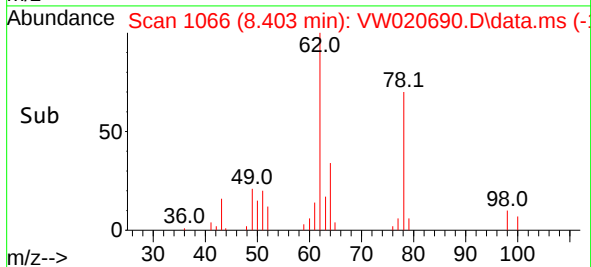
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1854  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.0  | 44.3  | 66.5  |
| 67       | 64.2  | 50.9  | 76.3  |
| 52       | 31.8  | 22.2  | 33.4  |



#42  
1,2-Dichloroethane  
Concen: 5.138 ug/l  
RT: 8.403 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



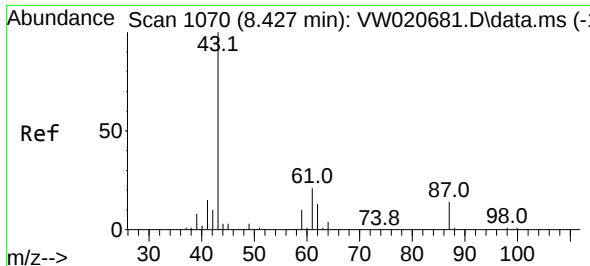
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 6680  |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.6   | 0.0   | 17.8  |



Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

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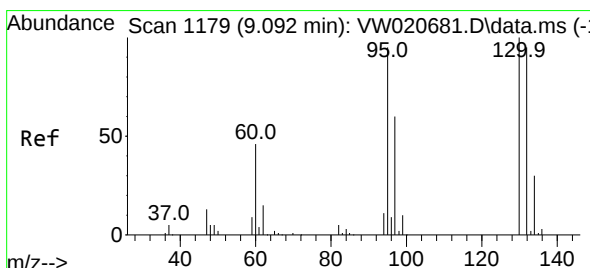
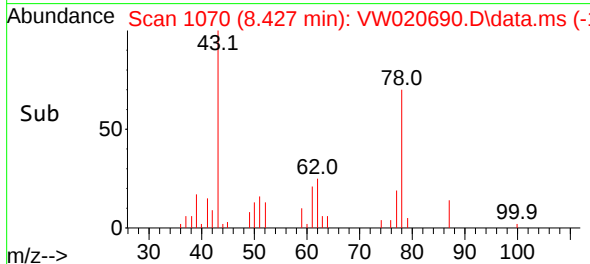
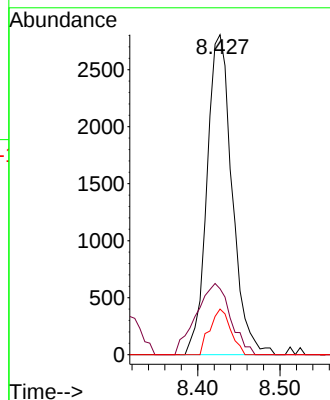
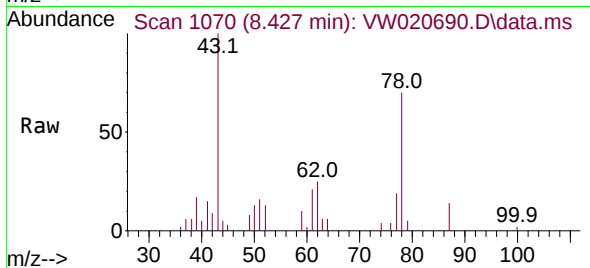
#43  
Isopropyl Acetate  
Concen: 4.706 ug/l  
RT: 8.427 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 43    | Resp: | 5963 |
| Ion Ratio | Lower | Upper |      |
| 43        | 100   |       |      |
| 61        | 30.2  | 23.3  | 34.9 |
| 87        | 11.7  | 10.4  | 15.6 |

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

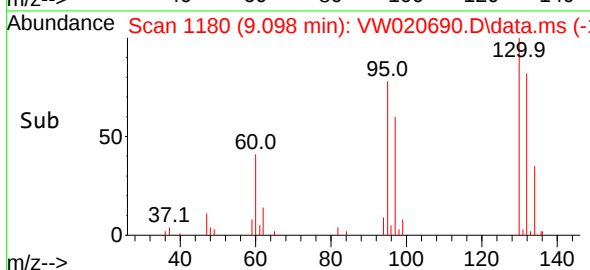
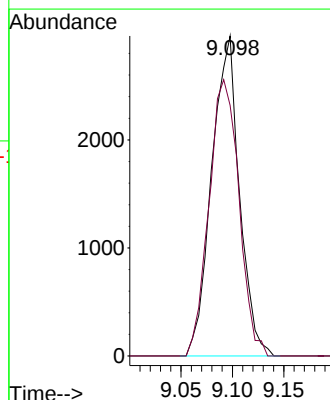
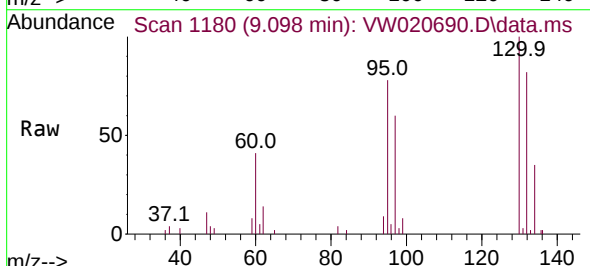
Manual Integrations  
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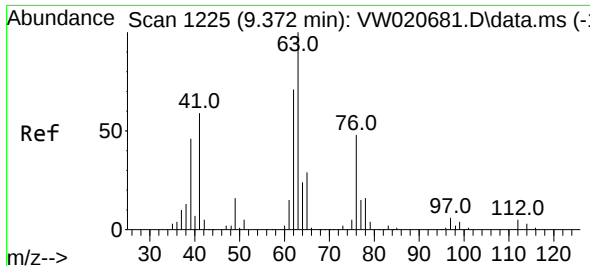
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#44  
Trichloroethene  
Concen: 5.060 ug/l  
RT: 9.098 min Scan# 1180  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 5554  |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 95        | 78.3  | 0.0   | 189.2 |





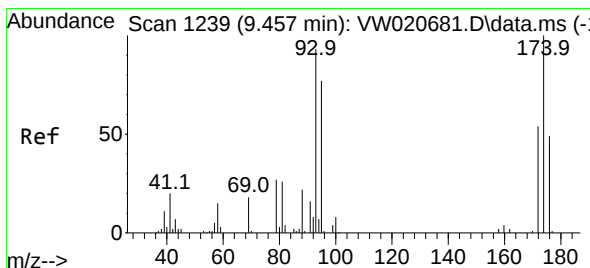
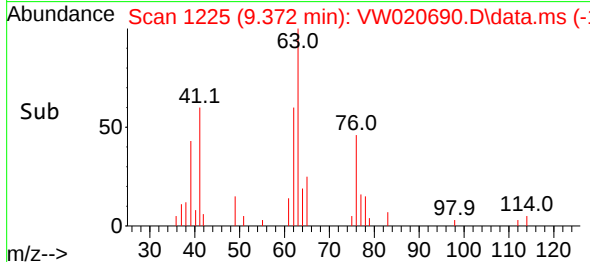
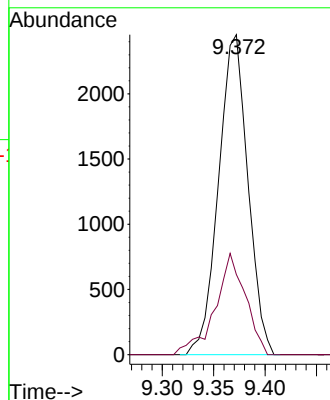
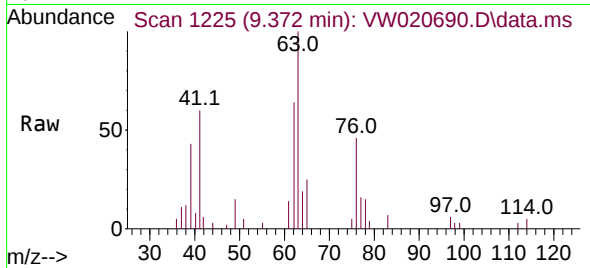
#45  
1,2-Dichloropropane  
Concen: 5.024 ug/l  
RT: 9.372 min Scan# 1225  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 63 Resp: 4864  
Ion Ratio Lower Upper  
63 100  
65 25.1 23.7 35.5

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

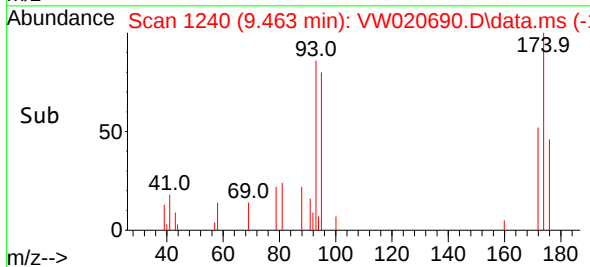
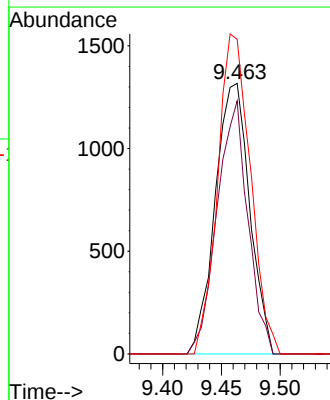
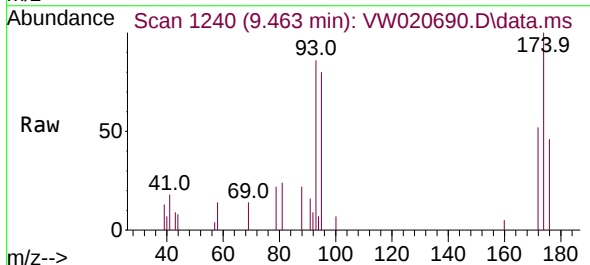
Manual Integrations  
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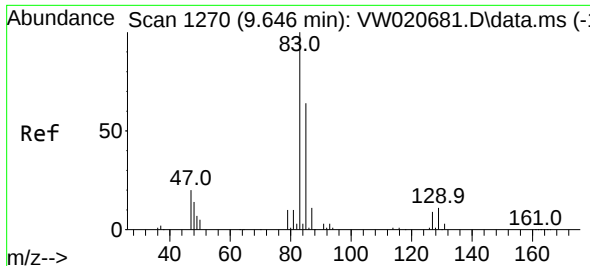
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#46  
Dibromomethane  
Concen: 4.944 ug/l  
RT: 9.463 min Scan# 1240  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 93 Resp: 2689  
Ion Ratio Lower Upper  
93 100  
95 83.3 67.0 100.4  
174 112.3 88.9 133.3





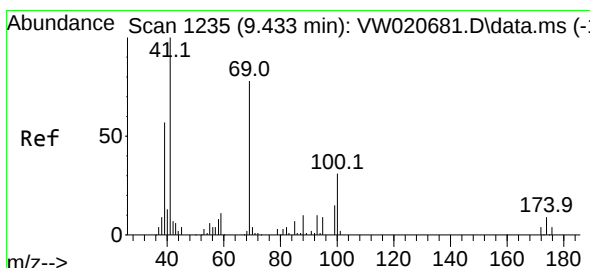
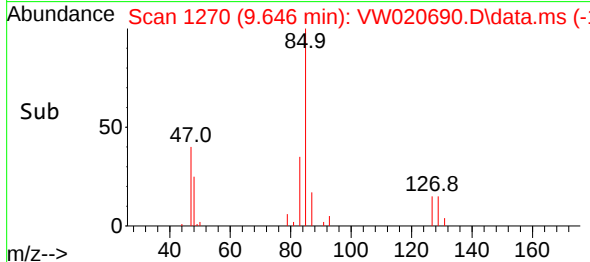
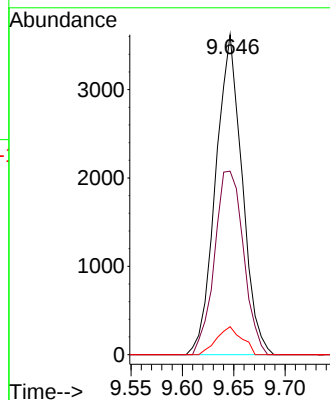
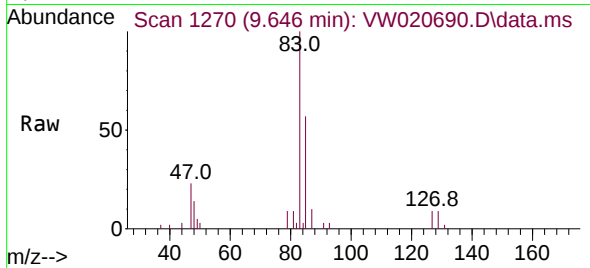
#47  
Bromodichloromethane  
Concen: 4.832 ug/l  
RT: 9.646 min Scan# 1270  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 6477  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 57.4  | 51.0  | 76.6  |
| 127      | 8.7   | 7.0   | 10.4  |

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

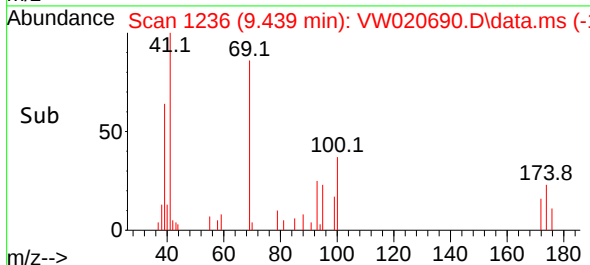
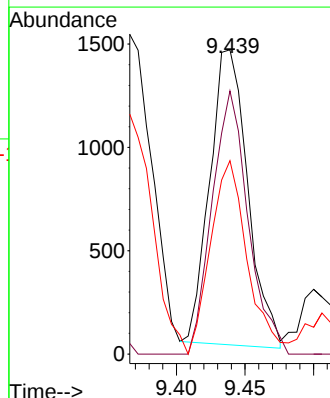
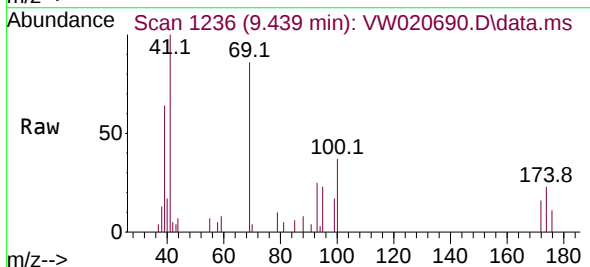
Manual Integrations  
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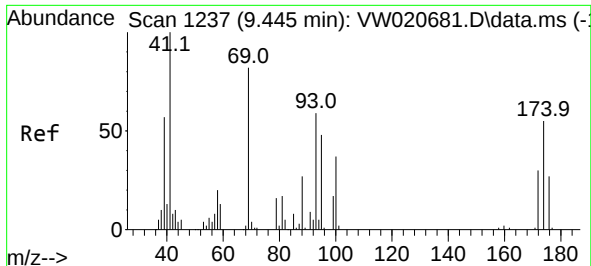
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#48  
Methyl methacrylate  
Concen: 4.514 ug/l  
RT: 9.439 min Scan# 1236  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 2752  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 84.8  | 67.2  | 100.8 |
| 39       | 63.6  | 47.0  | 70.6  |





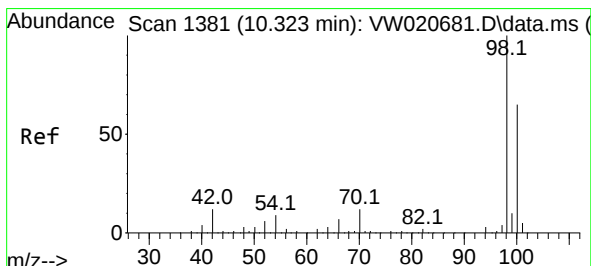
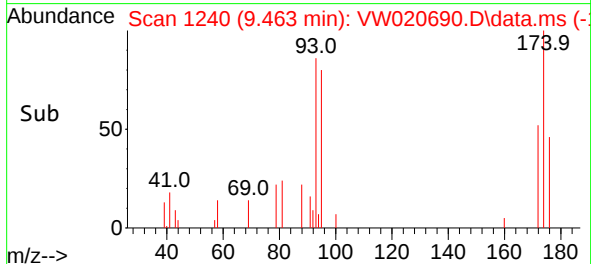
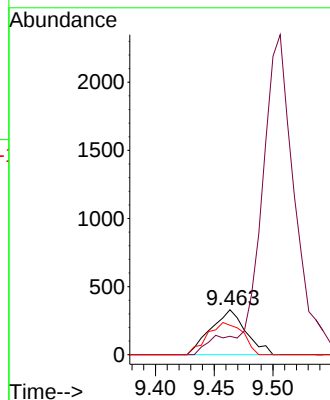
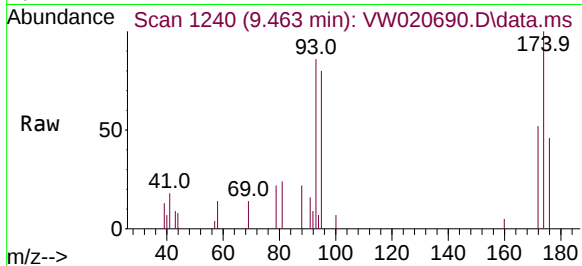
#49  
1,4-Dioxane  
Concen: 94.771 ug/l  
RT: 9.463 min Scan# 1240  
Delta R.T. 0.018 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 88 Resp: 685  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.8 43.2#  
58 71.8 59.6 89.4

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

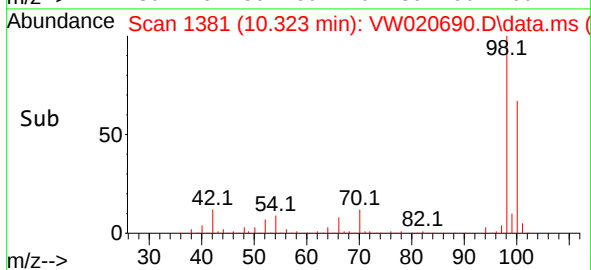
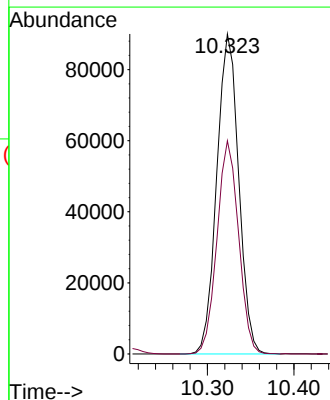
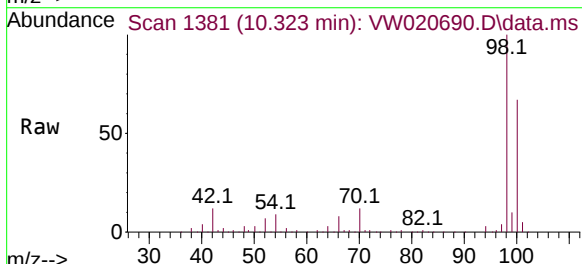
Manual Integrations  
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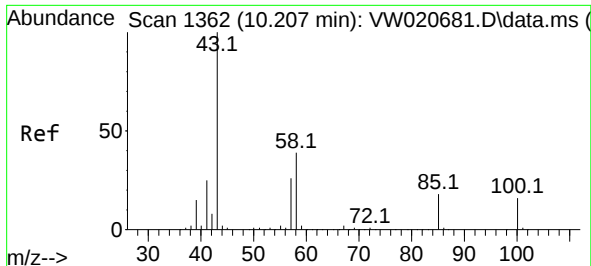
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#50  
Toluene-d8  
Concen: 46.211 ug/l  
RT: 10.323 min Scan# 1381  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 98 Resp: 158279  
Ion Ratio Lower Upper  
98 100  
100 65.5 53.2 79.8





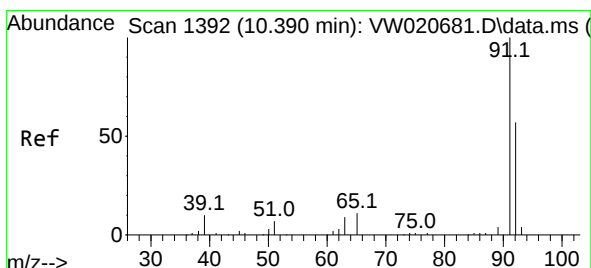
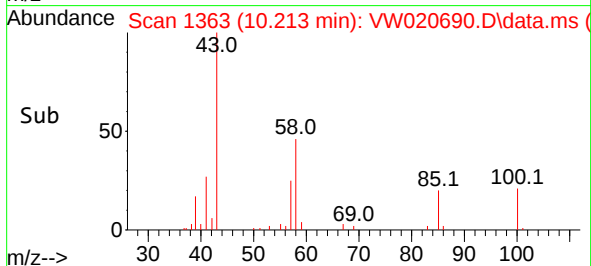
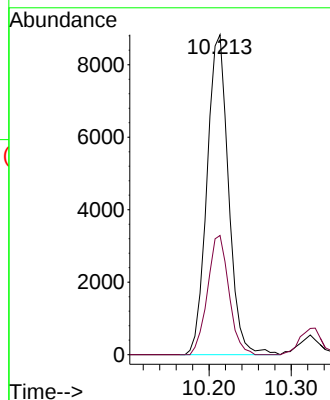
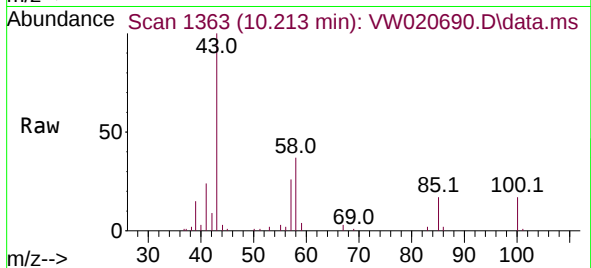
#51  
4-Methyl-2-Pentanone  
Concen: 23.275 ug/l  
RT: 10.213 min Scan# 1363  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 43 Resp: 16036  
Ion Ratio Lower Upper  
43 100  
58 36.9 30.6 46.0

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

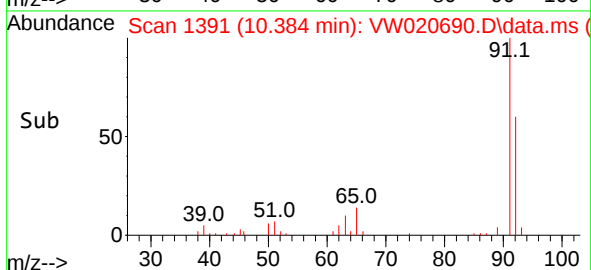
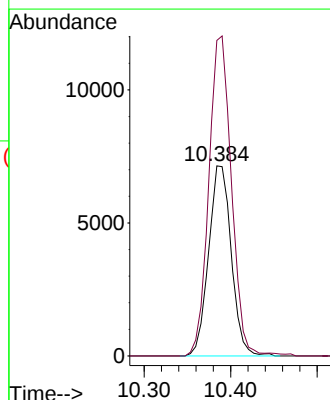
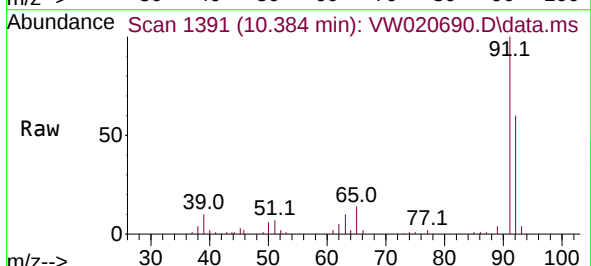
Manual Integrations  
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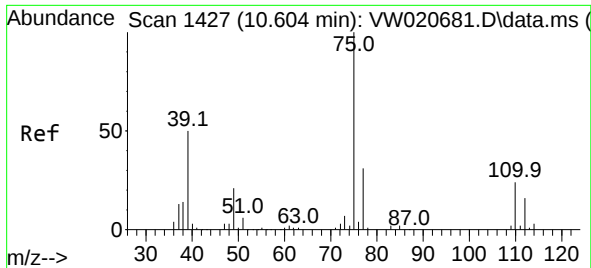
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#52  
Toluene  
Concen: 5.124 ug/l  
RT: 10.384 min Scan# 1391  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 92 Resp: 13000  
Ion Ratio Lower Upper  
92 100  
91 168.4 136.6 204.8





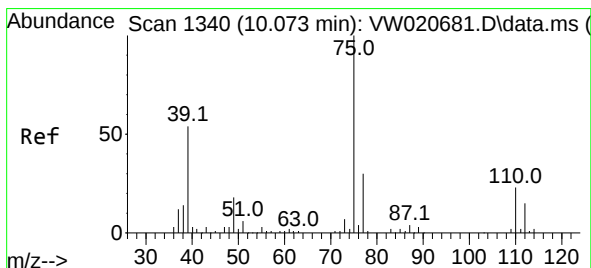
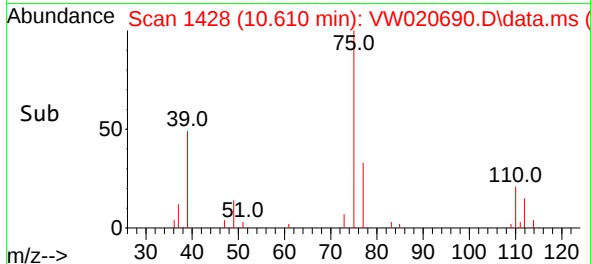
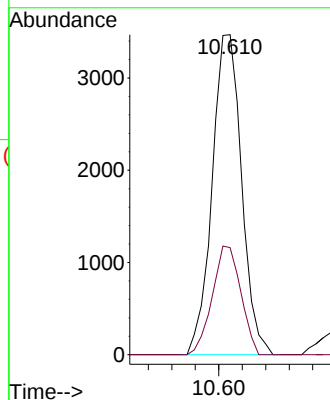
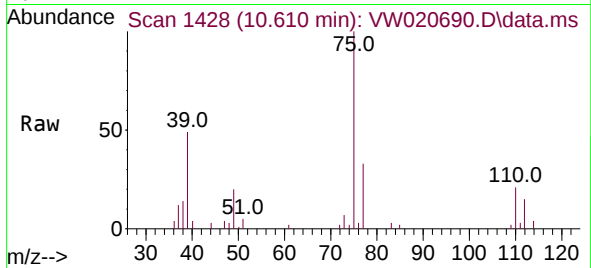
#53  
t-1,3-Dichloropropene  
Concen: 4.418 ug/l  
RT: 10.610 min Scan# 1428  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 75 Resp: 6027  
Ion Ratio Lower Upper  
75 100  
77 33.5 24.6 37.0

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

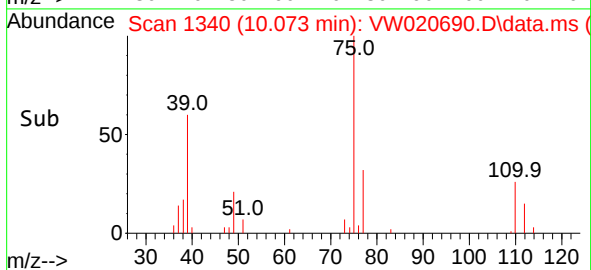
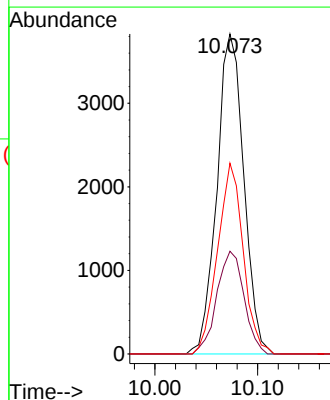
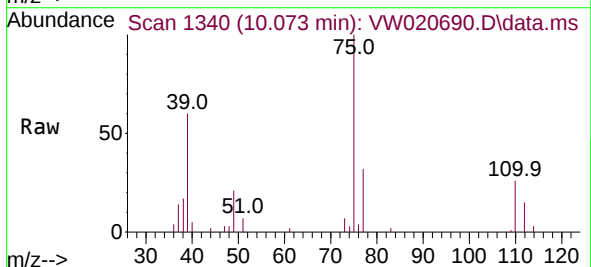
Manual Integrations  
APPROVED

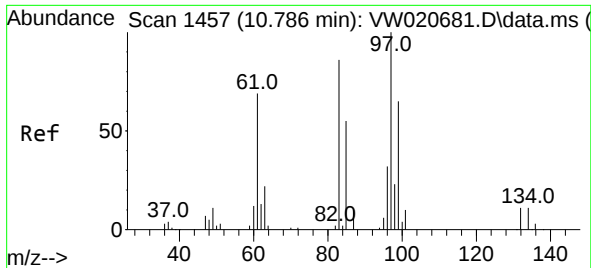
MMDadoda  
10/25/2021 11:56:25 AM



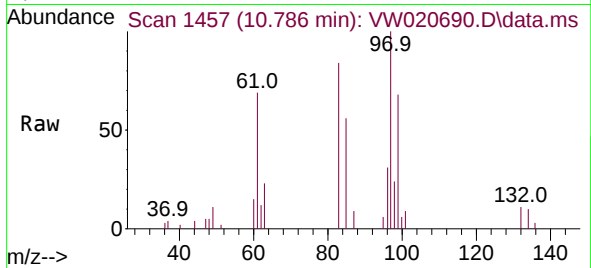
#54  
cis-1,3-Dichloropropene  
Concen: 4.503 ug/l  
RT: 10.073 min Scan# 1340  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 75 Resp: 6959  
Ion Ratio Lower Upper  
75 100  
77 32.1 23.8 35.8  
39 59.6 43.1 64.7

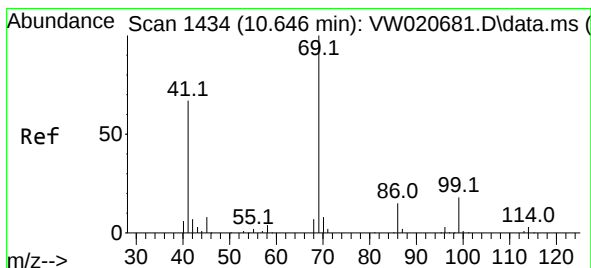
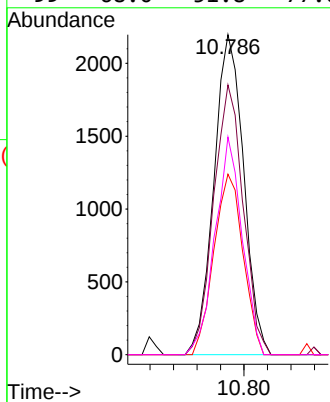
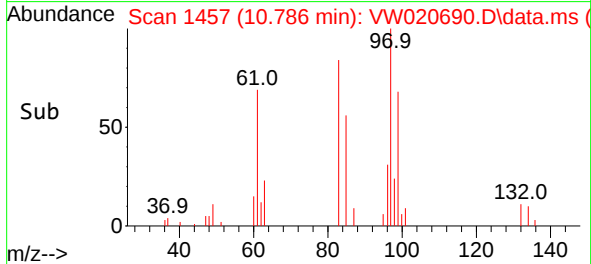




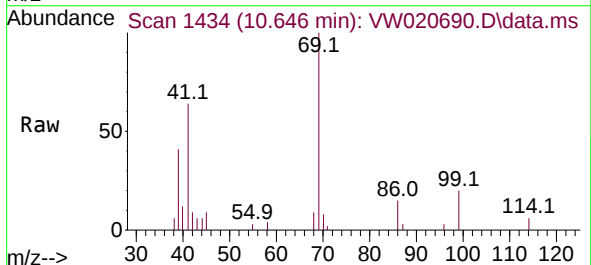
#55  
1,1,2-Trichloroethane  
Concen: 5.093 ug/l  
RT: 10.786 min Scan# 1457  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



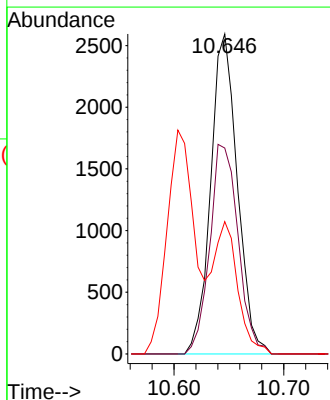
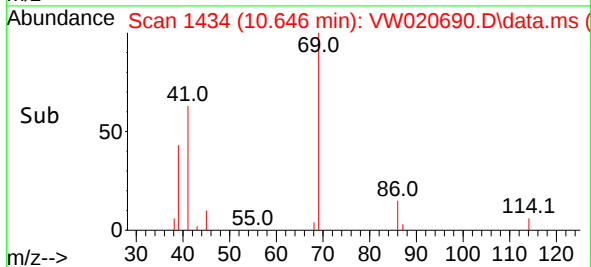
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 84.3  | 69.0  | 103.4 |
| 85      | 56.4  | 44.3  | 66.5  |
| 99      | 68.0  | 51.8  | 77.6  |



#56  
Ethyl methacrylate  
Concen: 4.503 ug/l  
RT: 10.646 min Scan# 1434  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



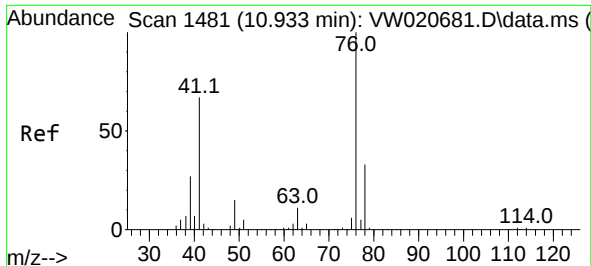
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 69.5  | 56.6  | 85.0  |
| 39      | 38.1  | 29.6  | 44.4  |



Instrument :  
MSVOA\_W  
ClientSampleId :  
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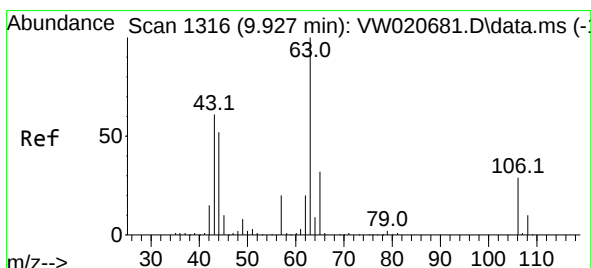
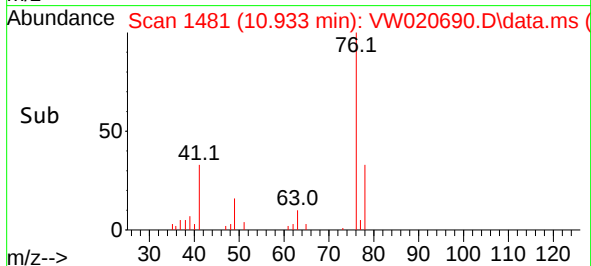
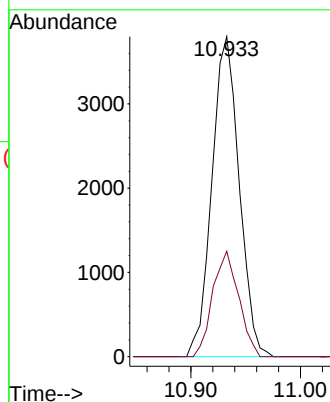
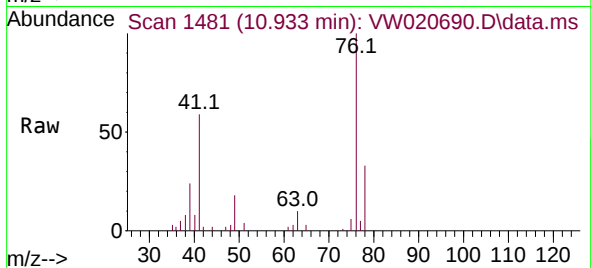
#57  
1,3-Dichloropropane  
Concen: 5.004 ug/l  
RT: 10.933 min Scan# 1481  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 76 Resp: 6569  
Ion Ratio Lower Upper  
76 100  
78 31.4 26.0 39.0

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

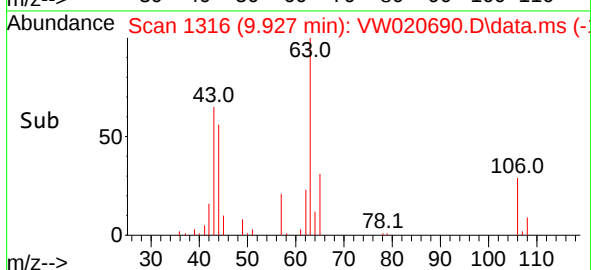
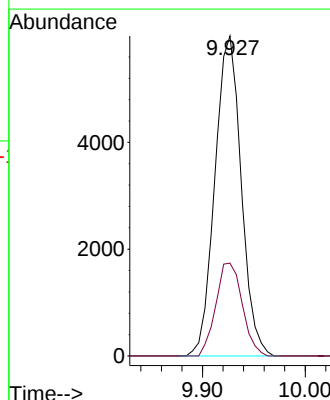
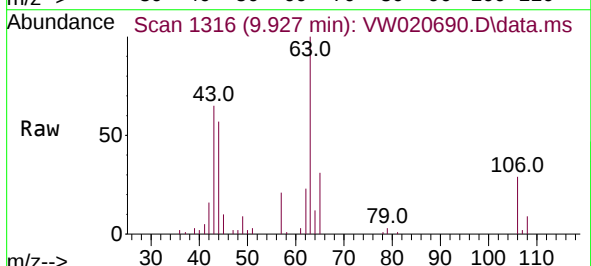
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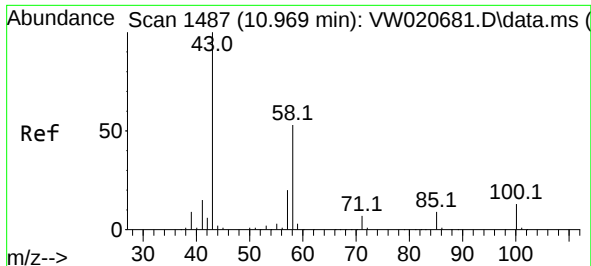
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#58  
2-Chloroethyl Vinyl ether  
Concen: 24.238 ug/l  
RT: 9.927 min Scan# 1316  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 63 Resp: 10642  
Ion Ratio Lower Upper  
63 100  
106 29.1 23.0 34.6





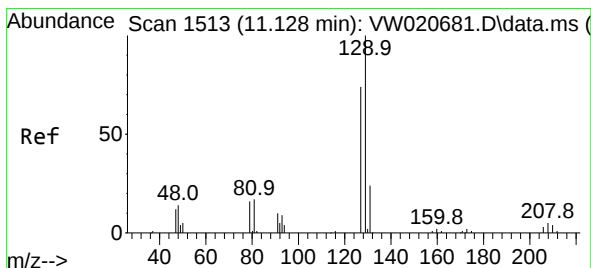
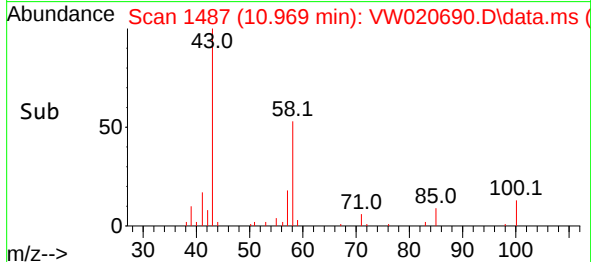
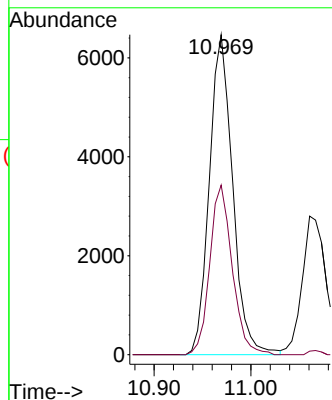
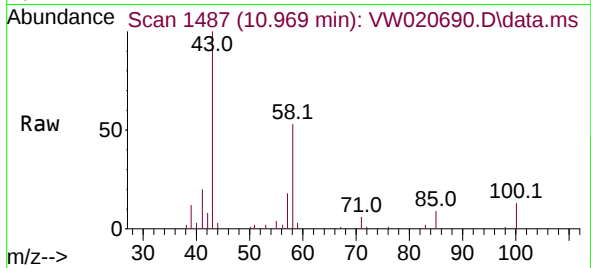
#59  
2-Hexanone  
Concen: 22.205 ug/l  
RT: 10.969 min Scan# 1487  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 43 Resp: 10824  
Ion Ratio Lower Upper  
43 100  
58 51.0 26.4 79.2

Instrument :  
MSVOA\_W  
ClientSampleId :  
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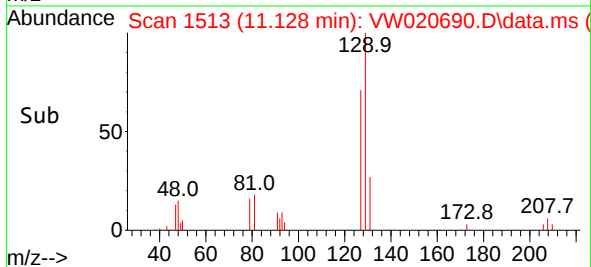
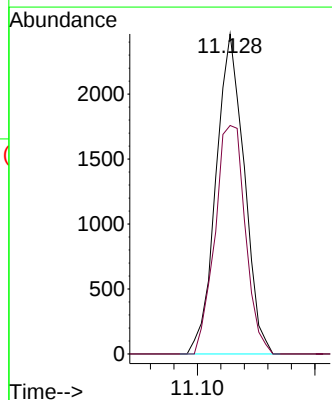
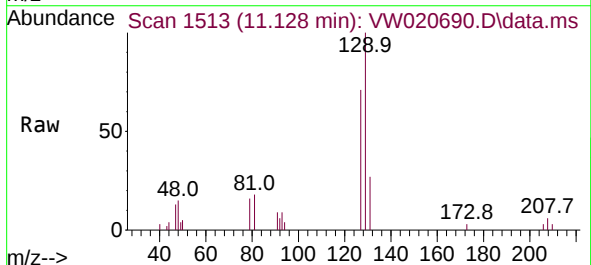
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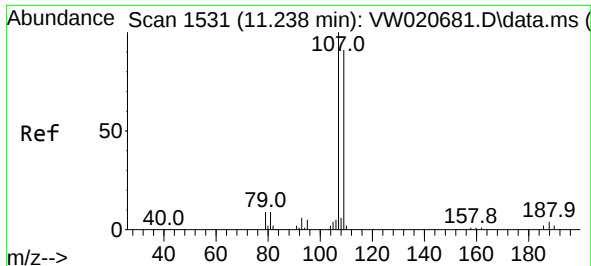
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#60  
Dibromochloromethane  
Concen: 4.600 ug/l  
RT: 11.128 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

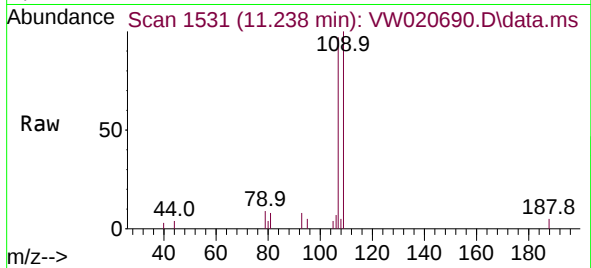
Tgt Ion: 129 Resp: 4109  
Ion Ratio Lower Upper  
129 100  
127 76.6 38.9 116.6





#61  
1,2-Dibromoethane  
Concen: 4.901 ug/l  
RT: 11.238 min Scan# 1531  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

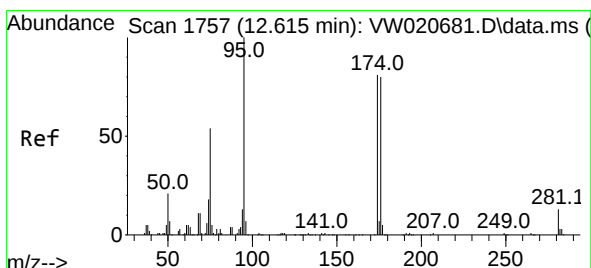
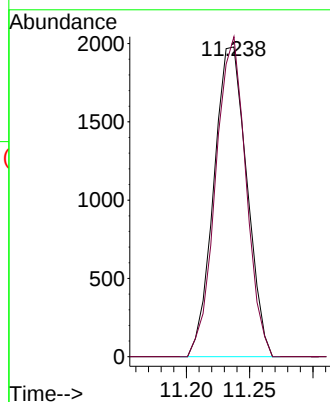
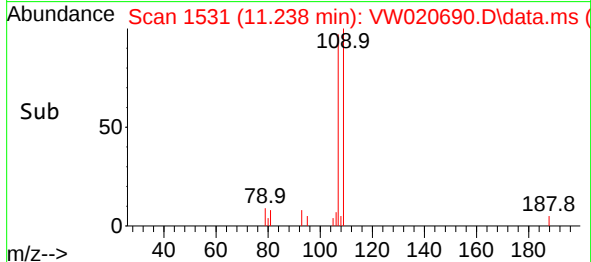
Instrument :  
MSVOA\_W  
ClientSampleId :  
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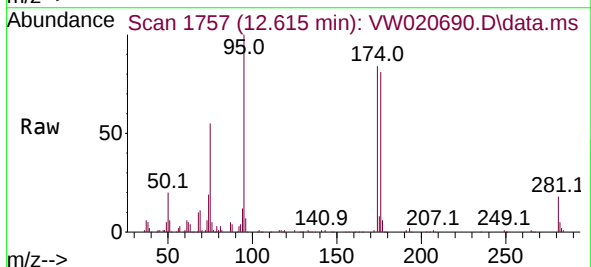
Tgt Ion:107 Resp: 3593  
Ion Ratio Lower Upper  
107 100  
109 94.6 75.4 113.2

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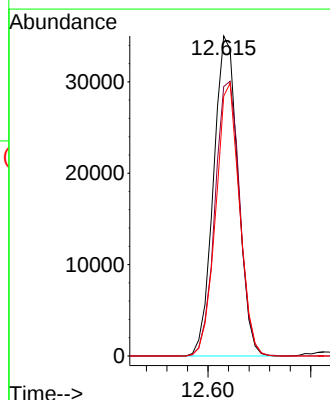
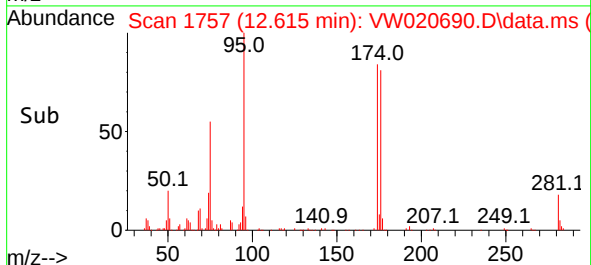
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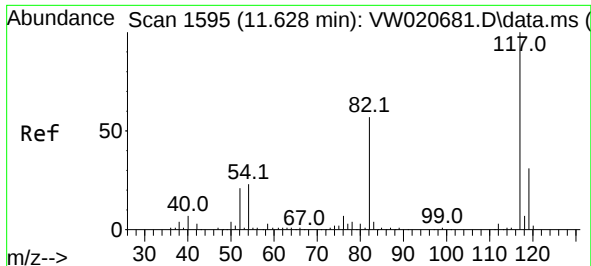


#62  
4-Bromofluorobenzene  
Concen: 46.006 ug/l  
RT: 12.615 min Scan# 1757  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion: 95 Resp: 57765  
Ion Ratio Lower Upper  
95 100  
174 86.8 0.0 166.4  
176 82.5 0.0 159.8





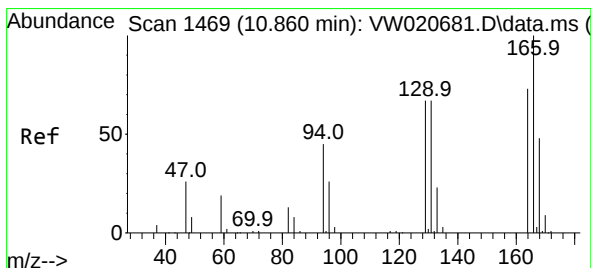
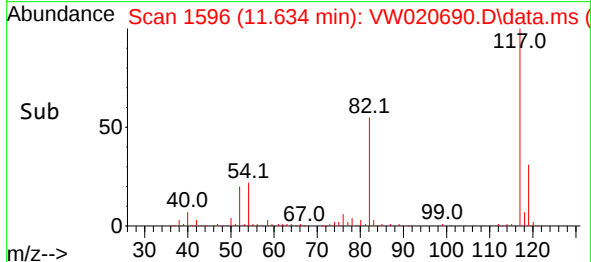
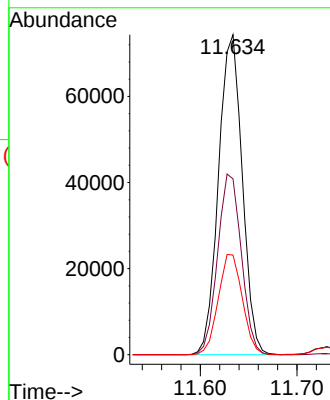
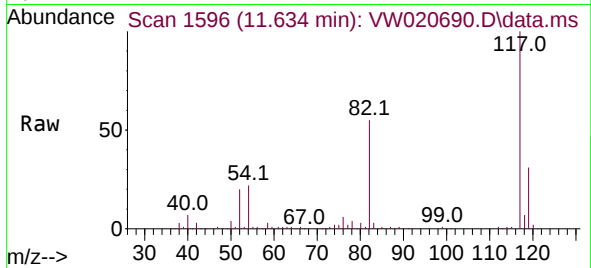
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.634 min Scan# 1596  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion:117 Resp: 126687  
Ion Ratio Lower Upper  
117 100  
82 54.9 45.6 68.4  
119 31.2 25.0 37.4

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

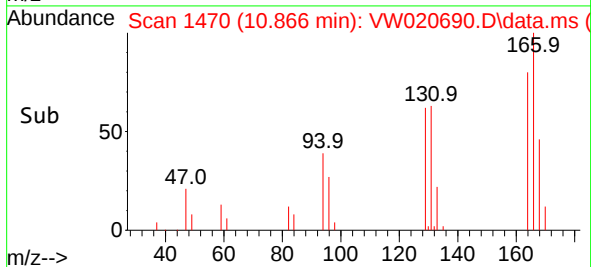
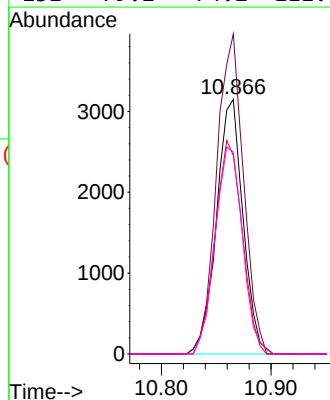
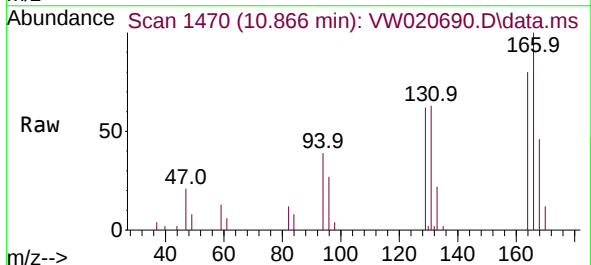
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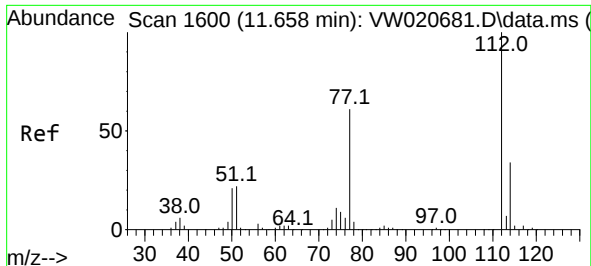
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#64  
Tetrachloroethene  
Concen: 5.369 ug/l  
RT: 10.866 min Scan# 1470  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion:164 Resp: 5281  
Ion Ratio Lower Upper  
164 100  
166 125.7 110.2 165.4  
129 77.9 74.4 111.6  
131 79.2 74.2 111.4





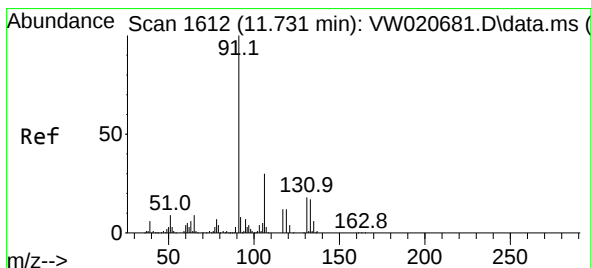
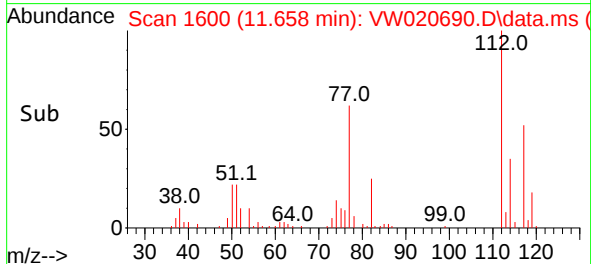
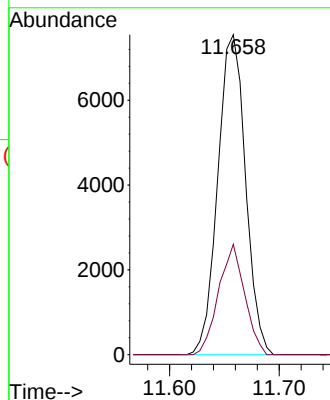
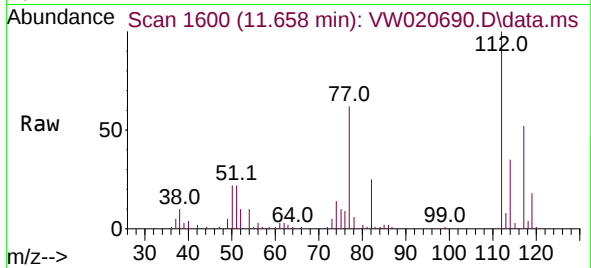
#65  
Chlorobenzene  
Concen: 4.867 ug/l  
RT: 11.658 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion:112 Resp: 13272  
Ion Ratio Lower Upper  
112 100  
114 34.5 27.0 40.6

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

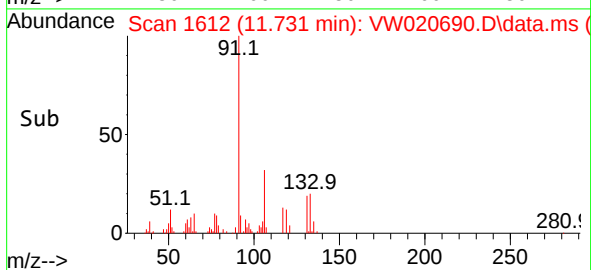
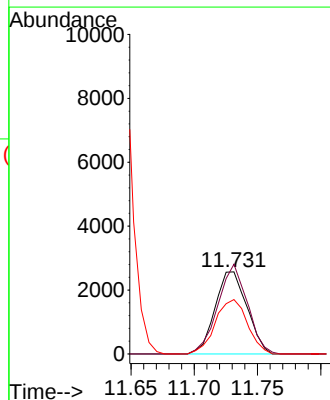
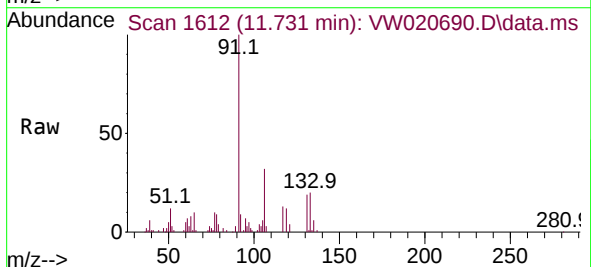
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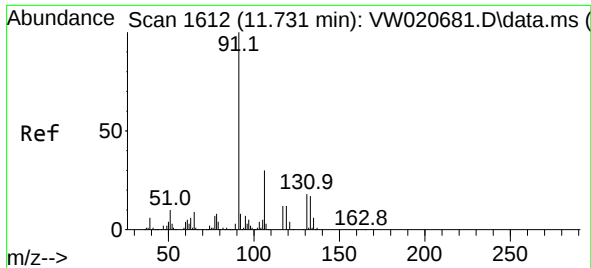
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#66  
1,1,1,2-Tetrachloroethane  
Concen: 4.567 ug/l  
RT: 11.731 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion:131 Resp: 4515  
Ion Ratio Lower Upper  
131 100  
133 101.0 47.9 143.8  
119 66.4 31.6 95.0





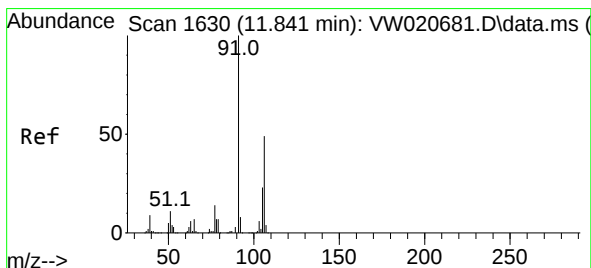
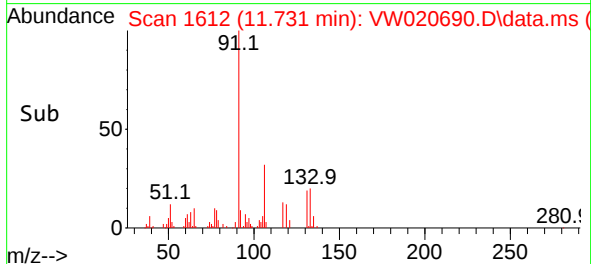
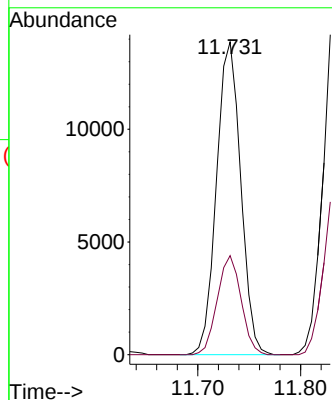
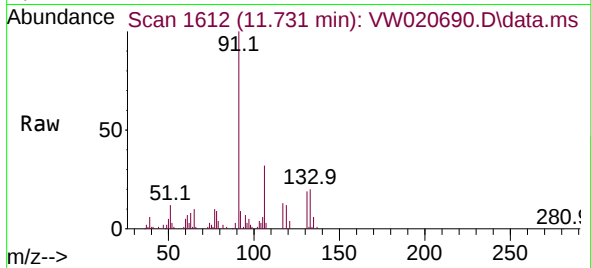
#67  
Ethyl Benzene  
Concen: 4.589 ug/l  
RT: 11.731 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 91 Resp: 22660  
Ion Ratio Lower Upper  
91 100  
106 31.7 24.4 36.6

Instrument :  
MSVOA\_W  
ClientSampleId :  
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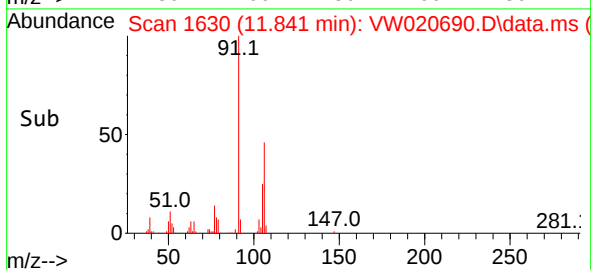
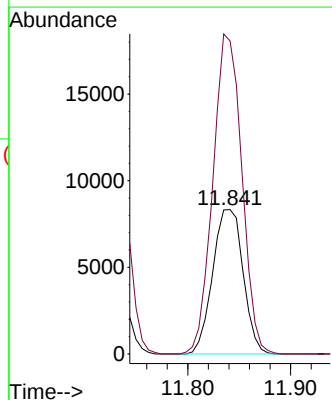
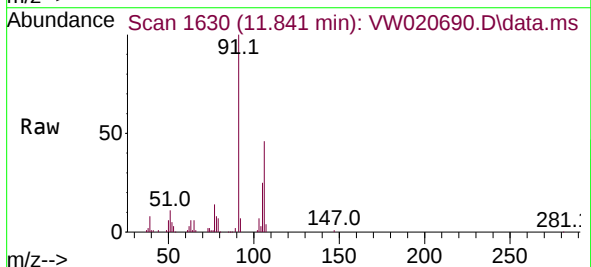
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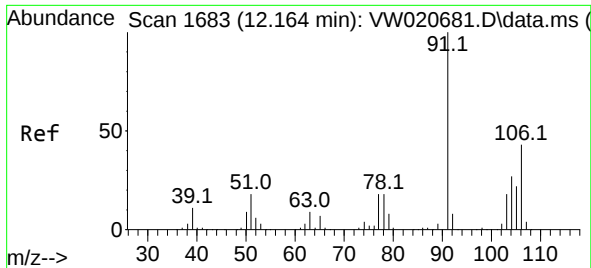
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#68  
m/p-Xylenes  
Concen: 8.965 ug/l  
RT: 11.841 min Scan# 1630  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion:106 Resp: 17116  
Ion Ratio Lower Upper  
106 100  
91 210.7 166.4 249.6





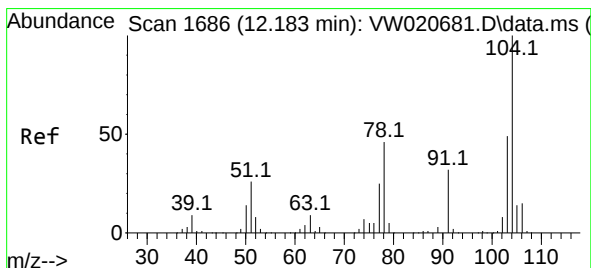
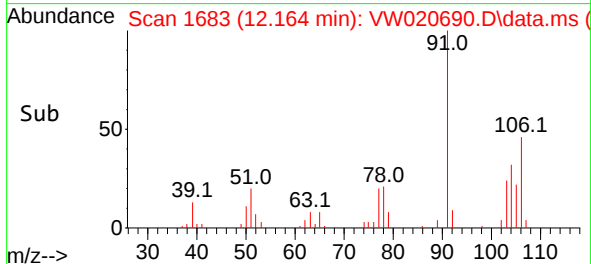
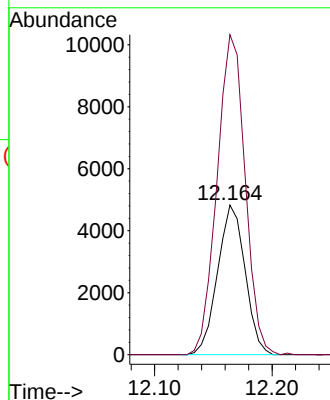
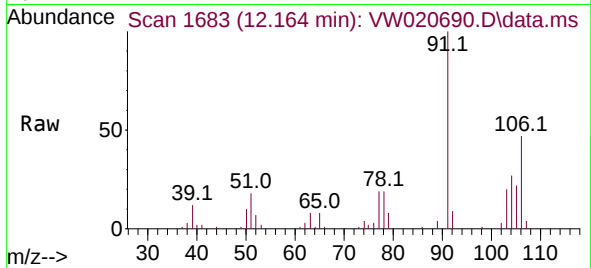
#69  
o-Xylene  
Concen: 4.457 ug/l  
RT: 12.164 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion:106 Resp: 7842  
Ion Ratio Lower Upper  
106 100  
91 218.6 110.9 332.6

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

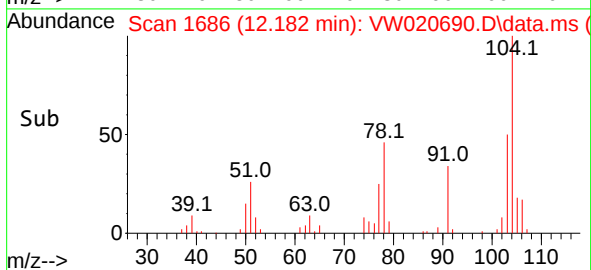
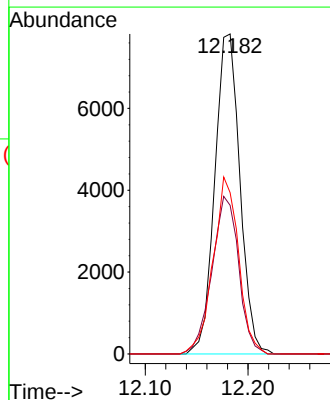
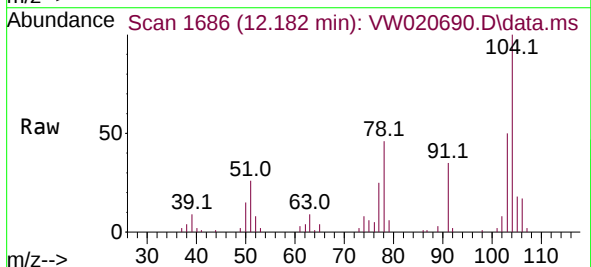
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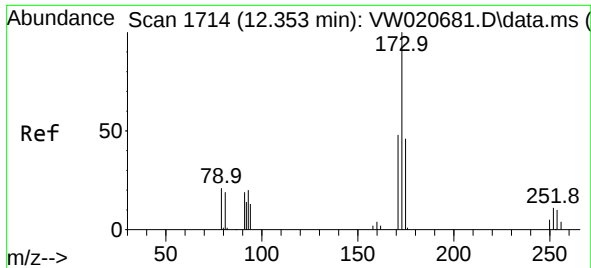
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#70  
Styrene  
Concen: 4.395 ug/l  
RT: 12.182 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

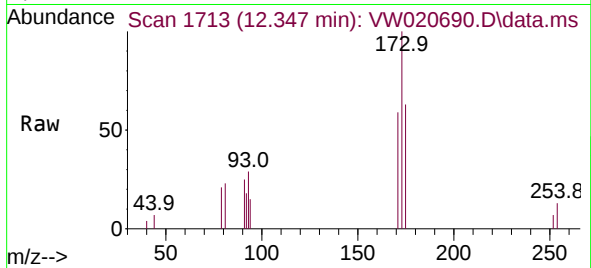
Tgt Ion:104 Resp: 13246  
Ion Ratio Lower Upper  
104 100  
78 52.6 41.4 62.0  
103 55.9 43.3 64.9





#71  
Bromoform  
Concen: 4.479 ug/l  
RT: 12.347 min Scan# 1713  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

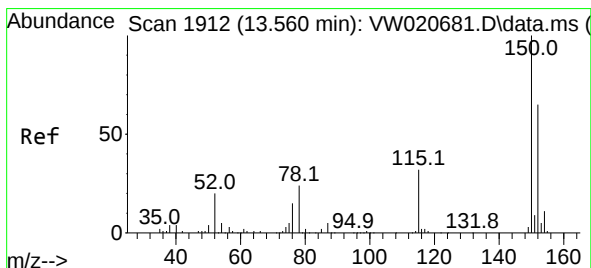
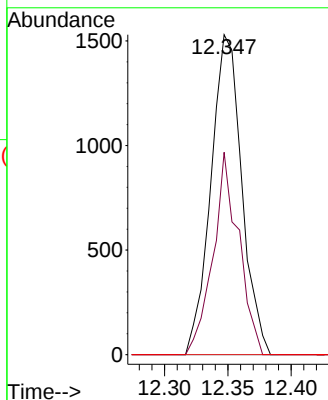
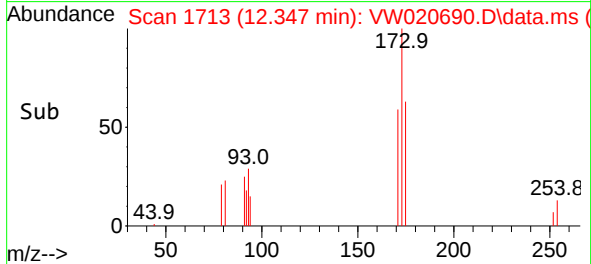
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



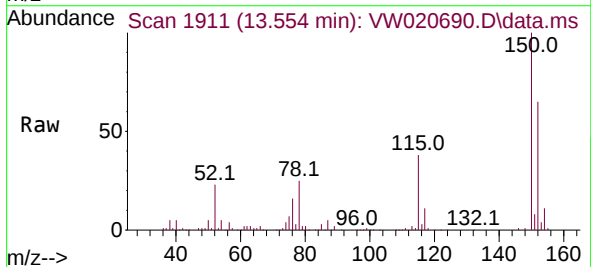
Tgt Ion:173 Resp: 2596  
Ion Ratio Lower Upper  
173 100  
175 52.6 24.6 73.8  
254 0.0 0.0 0.0

Manual Integrations  
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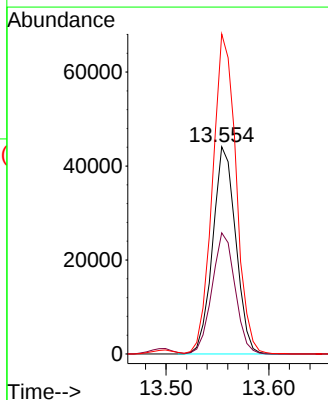
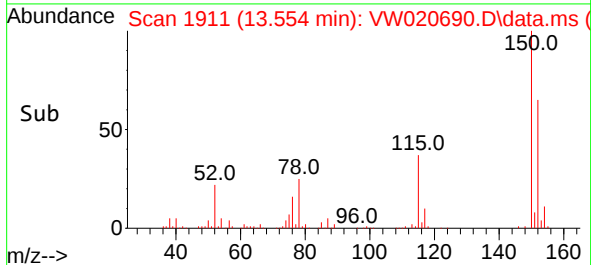
MMDadoda  
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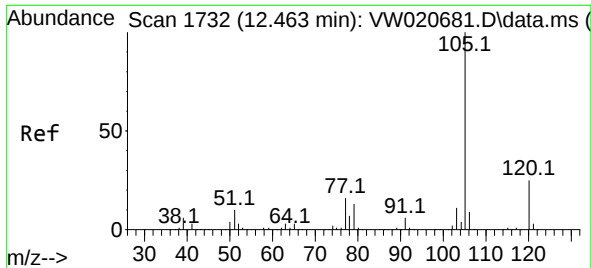


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.554 min Scan# 1911  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion:152 Resp: 68465  
Ion Ratio Lower Upper  
152 100  
115 58.4 29.6 88.9  
150 157.9 0.0 352.6





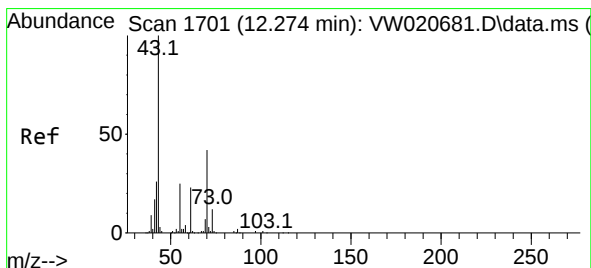
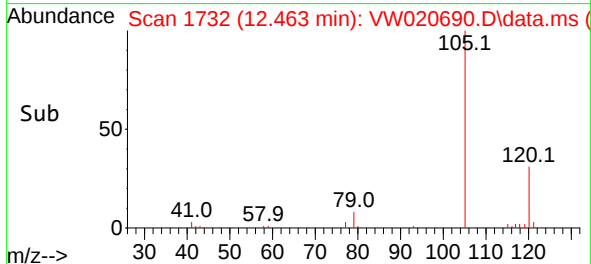
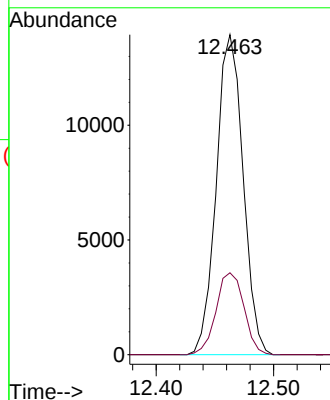
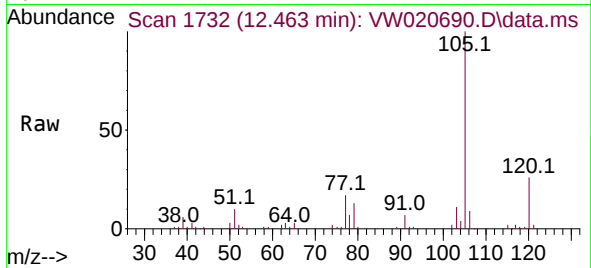
#73  
Isopropylbenzene  
Concen: 4.485 ug/l  
RT: 12.463 min Scan# 1732  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 105 Resp: 22121  
Ion Ratio Lower Upper  
105 100  
120 26.6 13.0 39.0

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

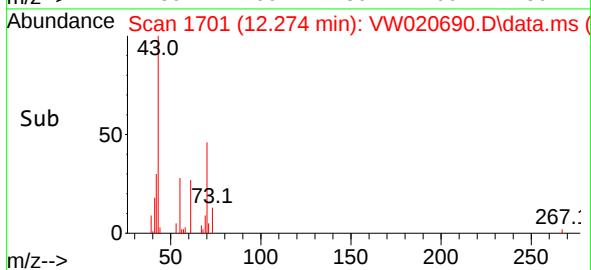
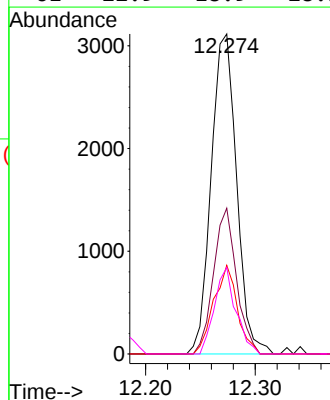
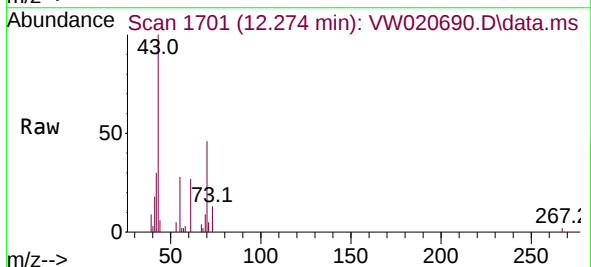
Manual Integrations  
APPROVED

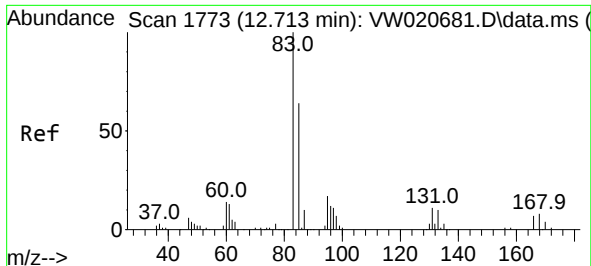
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#74  
N-ethyl acetate  
Concen: 4.192 ug/l  
RT: 12.274 min Scan# 1701  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 43 Resp: 5017  
Ion Ratio Lower Upper  
43 100  
70 41.2 33.4 50.2  
55 26.0 20.1 30.1  
61 22.9 18.9 28.3





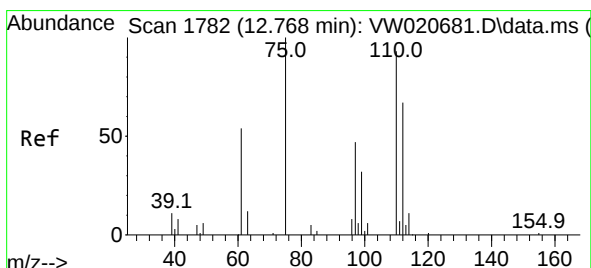
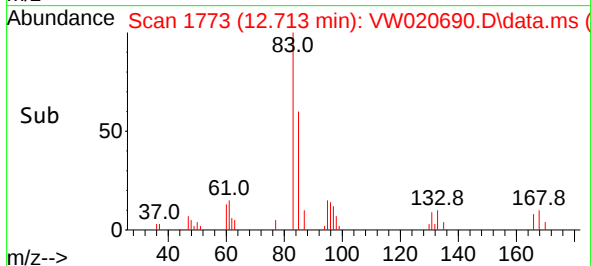
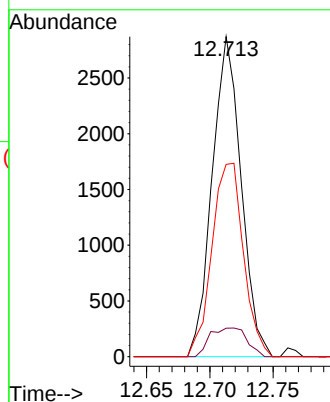
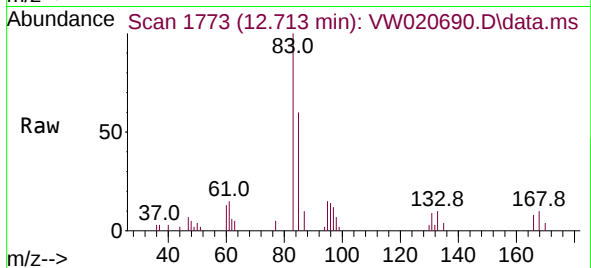
#75  
1,1,2,2-Tetrachloroethane  
Concen: 4.941 ug/l  
RT: 12.713 min Scan# 1773  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 83 Resp: 4565  
Ion Ratio Lower Upper  
83 100  
131 11.5 5.8 17.3  
85 65.8 31.8 95.4

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

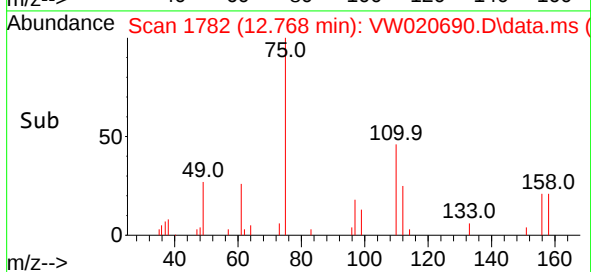
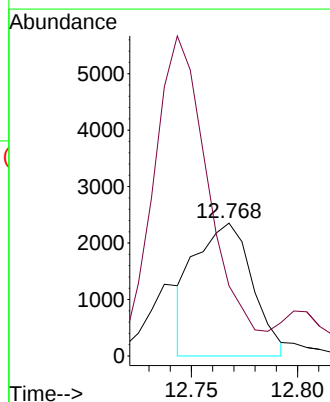
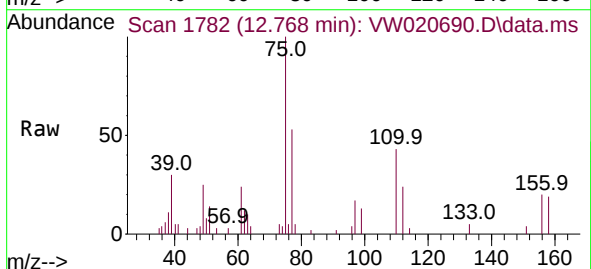
Manual Integrations  
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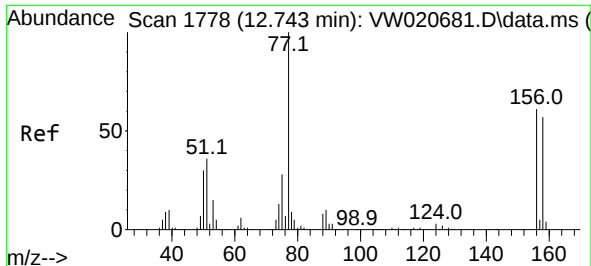
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#76  
1,2,3-Trichloropropane  
Concen: 5.828 ug/l m  
RT: 12.768 min Scan# 1782  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 75 Resp: 4421  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





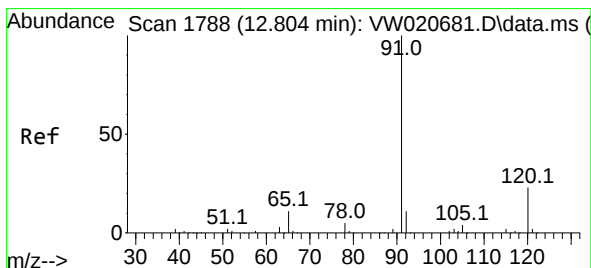
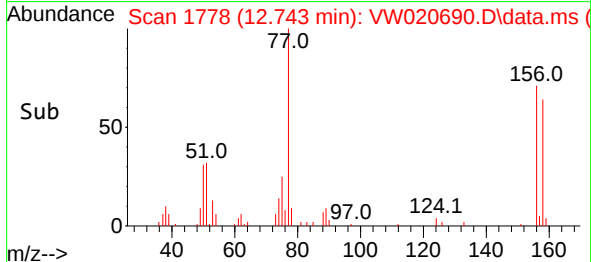
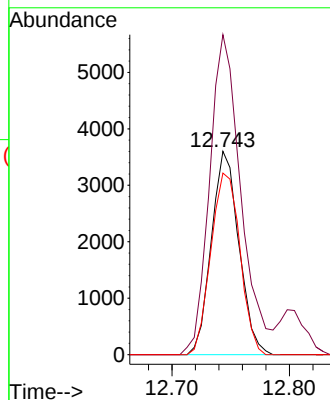
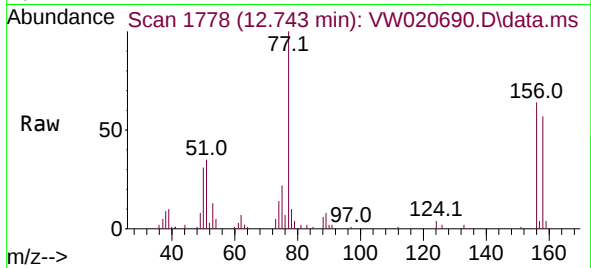
#77  
Bromobenzene  
Concen: 4.963 ug/l  
RT: 12.743 min Scan# 1778  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 156 Resp: 5871  
Ion Ratio Lower Upper  
156 100  
77 179.3 91.8 275.6  
158 94.1 47.9 143.8

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

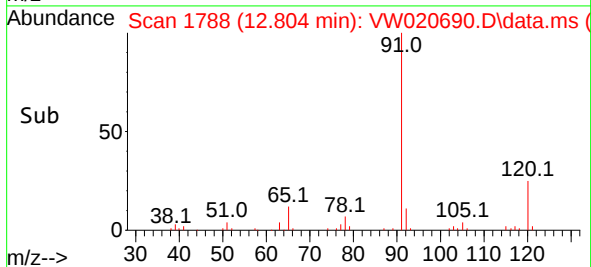
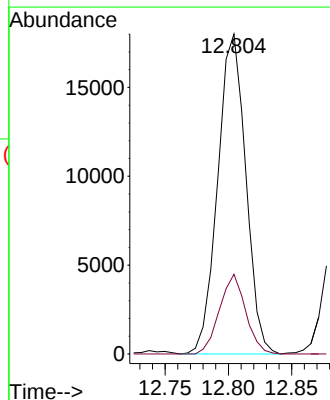
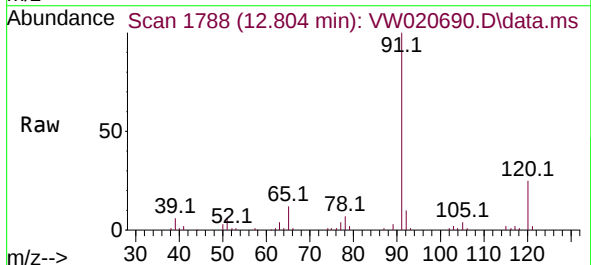
Manual Integrations  
APPROVED

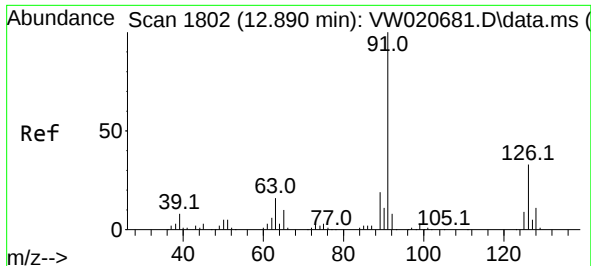
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#78  
n-propylbenzene  
Concen: 4.581 ug/l  
RT: 12.804 min Scan# 1788  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 91 Resp: 27745  
Ion Ratio Lower Upper  
91 100  
120 23.1 11.7 35.0





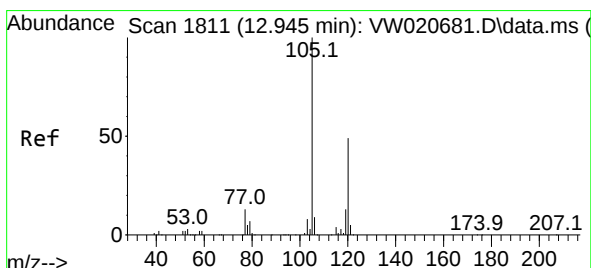
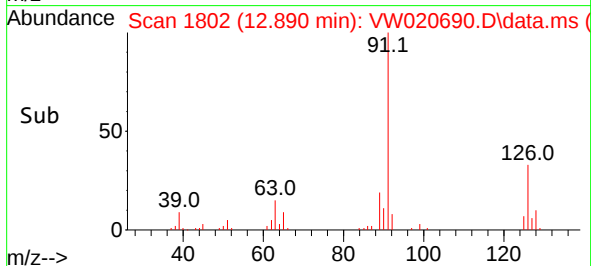
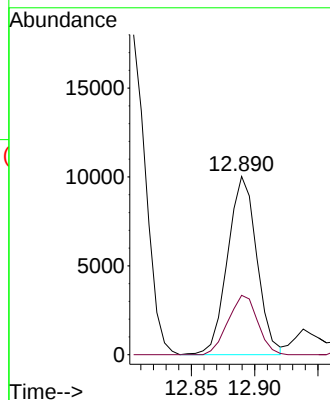
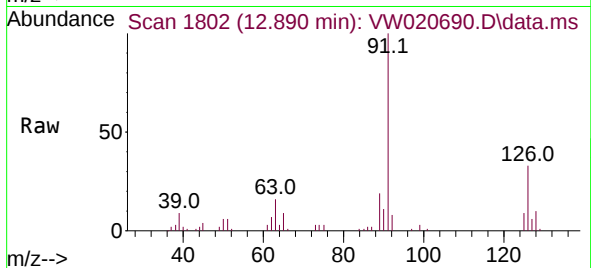
#79  
2-Chlorotoluene  
Concen: 4.638 ug/l  
RT: 12.890 min Scan# 1802  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion: 91 Resp: 16159  
Ion Ratio Lower Upper  
91 100  
126 33.6 16.7 50.0

Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

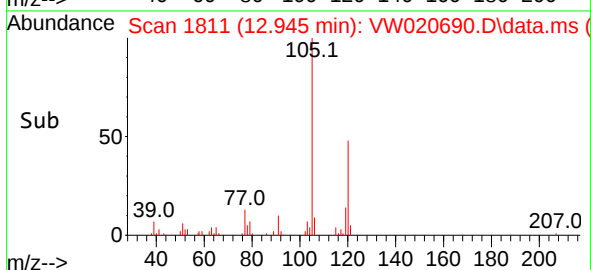
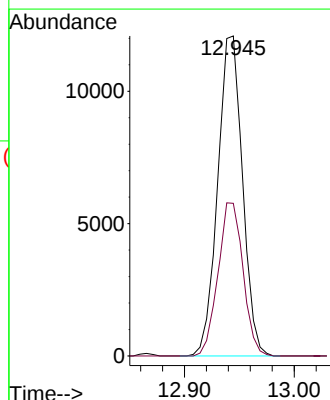
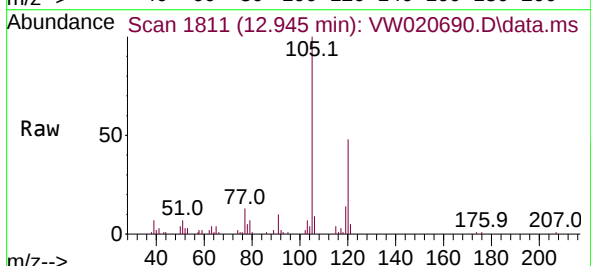
Manual Integrations  
APPROVED

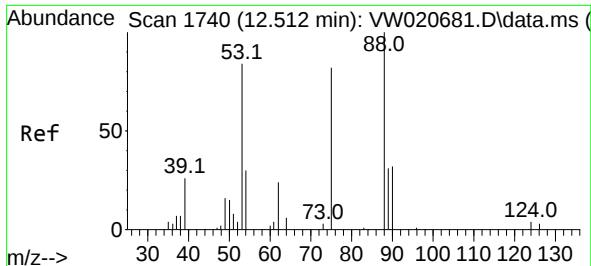
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#80  
1,3,5-Trimethylbenzene  
Concen: 4.457 ug/l  
RT: 12.945 min Scan# 1811  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

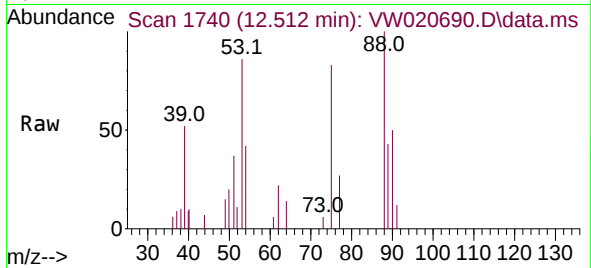
Tgt Ion: 105 Resp: 18999  
Ion Ratio Lower Upper  
105 100  
120 48.3 24.3 72.9





#81  
trans-1,4-Dichloro-2-butene  
Concen: 4.623 ug/l  
RT: 12.512 min Scan# 1740  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

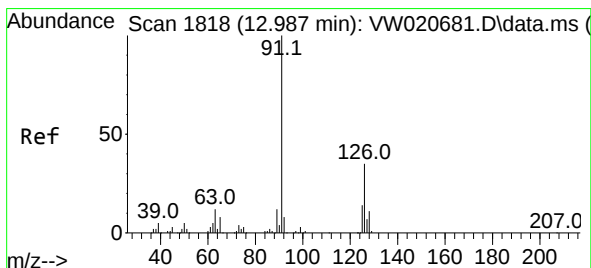
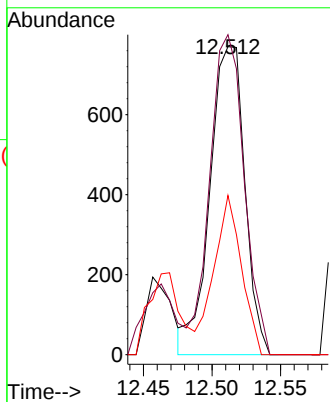
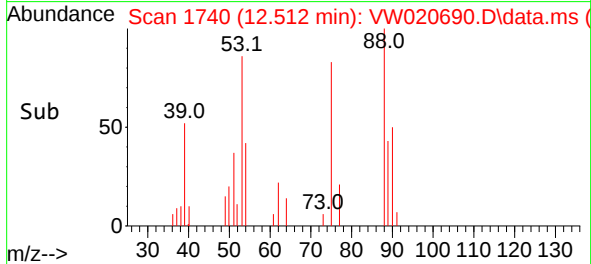
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



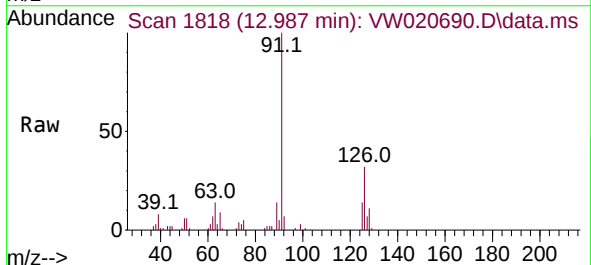
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 102.0 | 83.7  | 125.5 |
| 89      | 40.7  | 36.7  | 55.1  |

Manual Integrations  
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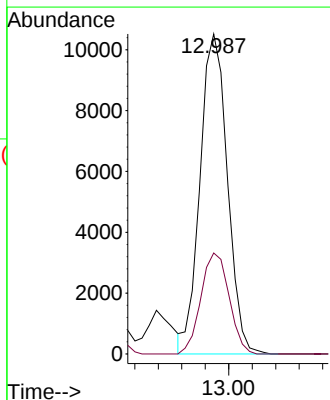
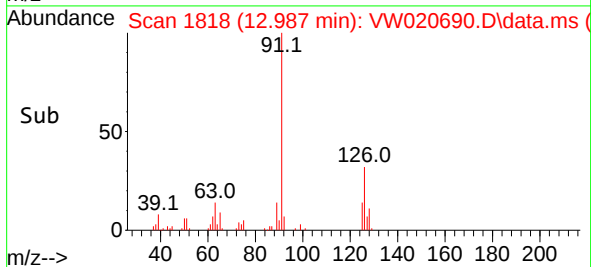
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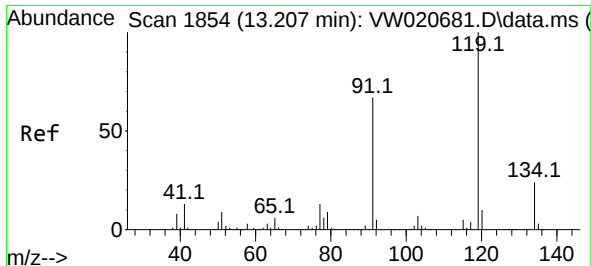


#82  
4-Chlorotoluene  
Concen: 4.643 ug/l  
RT: 12.987 min Scan# 1818  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

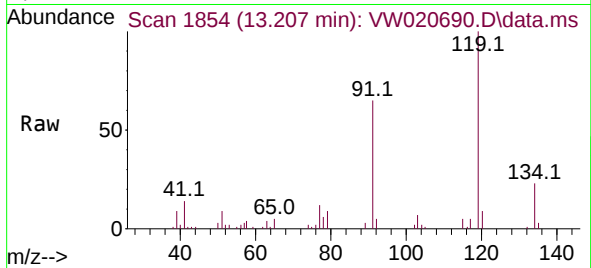


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 32.5  | 16.8  | 50.4  |

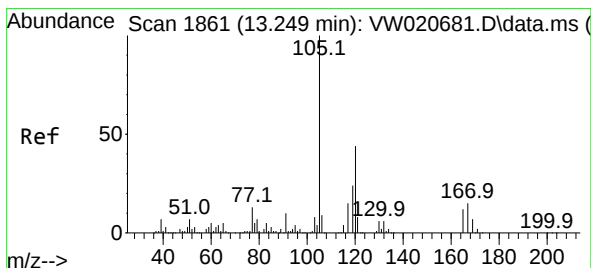
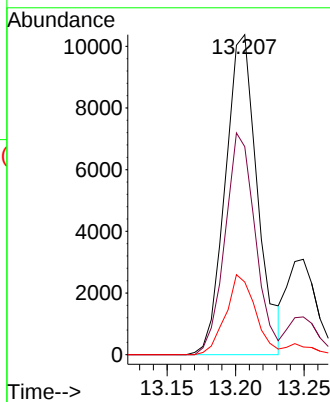
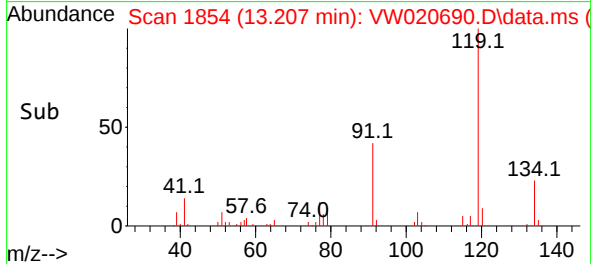




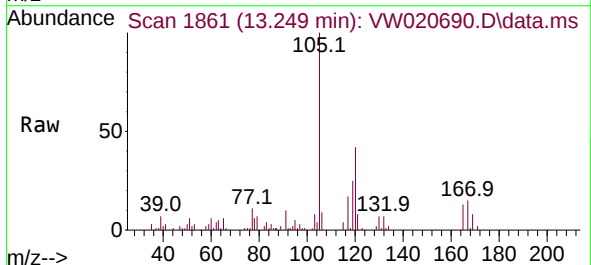
#83  
tert-Butylbenzene  
Concen: 4.596 ug/l  
RT: 13.207 min Scan# 1854  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



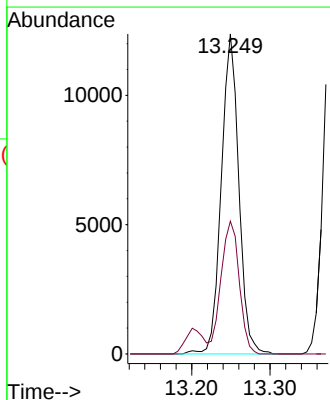
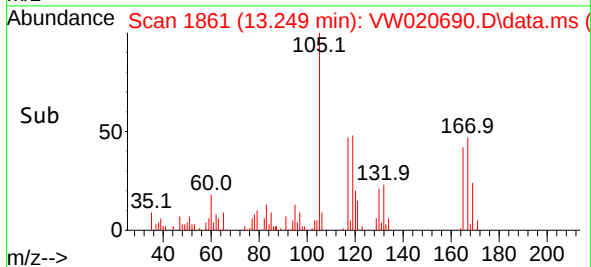
Tgt Ion:119 Resp: 16906  
Ion Ratio Lower Upper  
119 100  
91 65.5 32.9 98.7  
134 23.1 12.4 37.2



#84  
1,2,4-Trimethylbenzene  
Concen: 4.557 ug/l  
RT: 13.249 min Scan# 1861  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



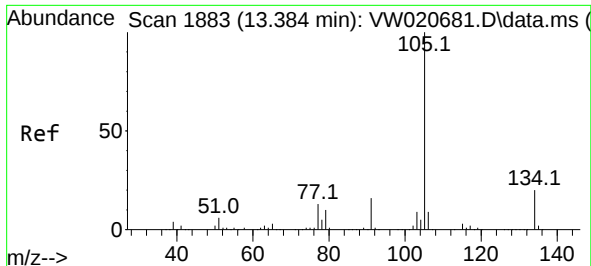
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Ion Ratio Lower Upper  
105 100  
120 43.5 22.6 67.7



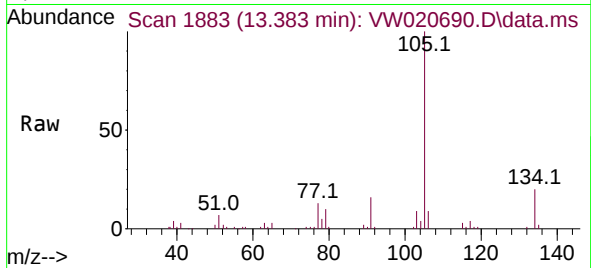
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

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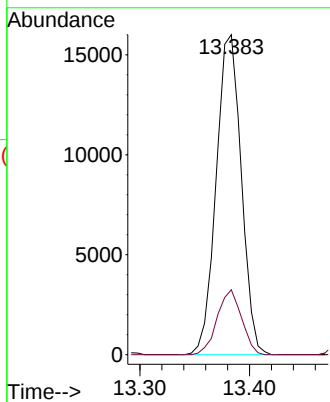
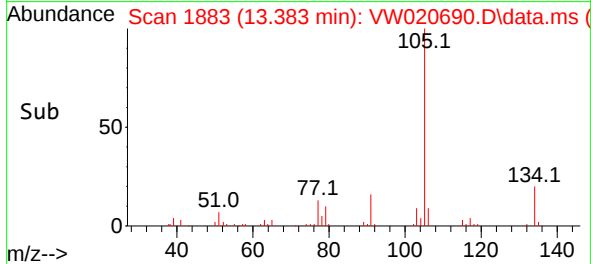
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#85  
sec-Butylbenzene  
Concen: 4.617 ug/l  
RT: 13.383 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



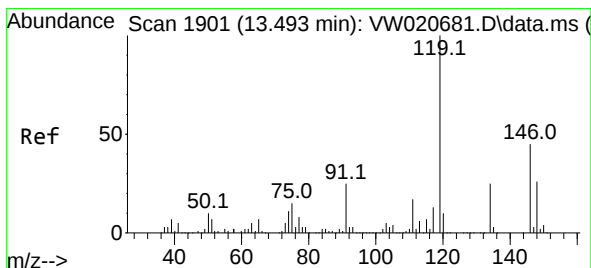
Tgt Ion:105 Resp: 25475  
Ion Ratio Lower Upper  
105 100  
134 19.7 10.1 30.3



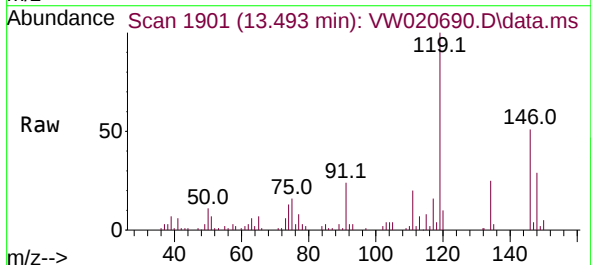
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ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Manual Integrations  
APPROVED

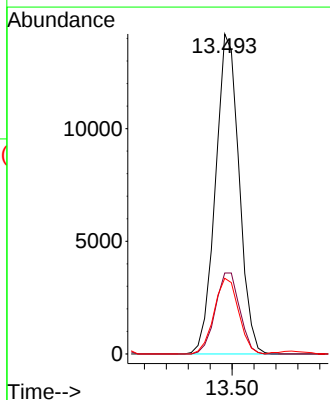
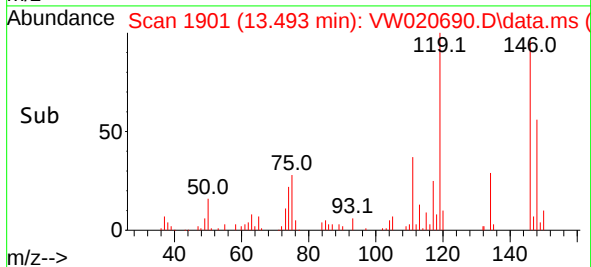
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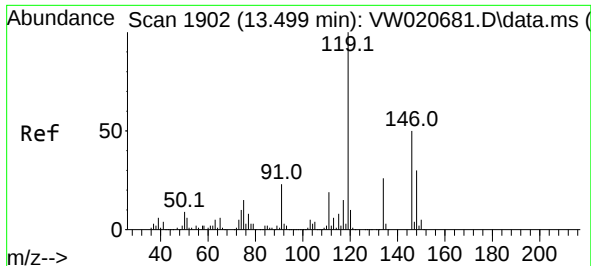


#86  
p-Isopropyltoluene  
Concen: 4.515 ug/l  
RT: 13.493 min Scan# 1901  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion:119 Resp: 21193  
Ion Ratio Lower Upper  
119 100  
134 26.1 13.0 38.9  
91 24.6 12.0 36.0





#87

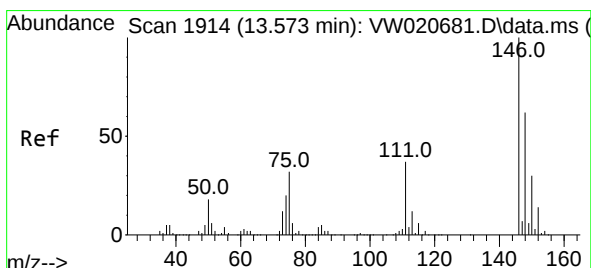
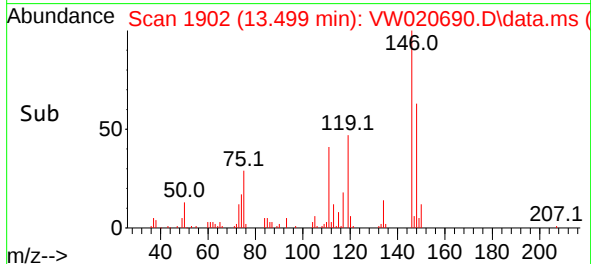
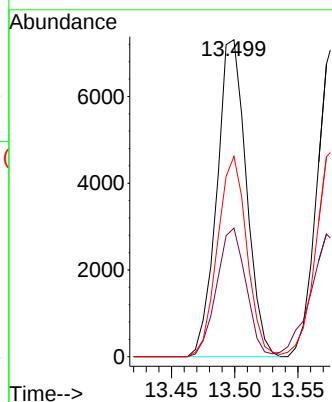
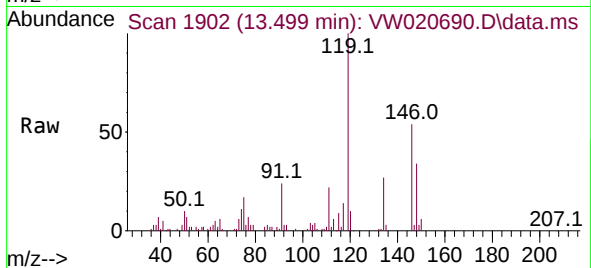
1,3-Dichlorobenzene  
Concen: 4.860 ug/l  
RT: 13.499 min Scan# 1902  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.5  | 19.4  | 58.2  |
| 148     | 62.8  | 30.8  | 92.3  |

Instrument :  
MSVOA\_W  
ClientSampleId :  
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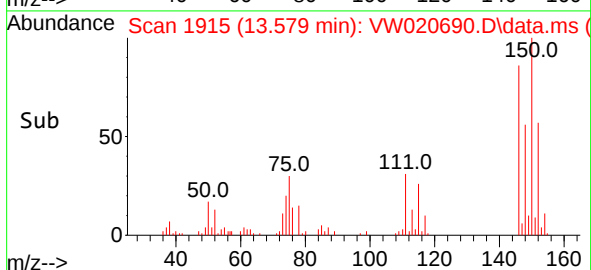
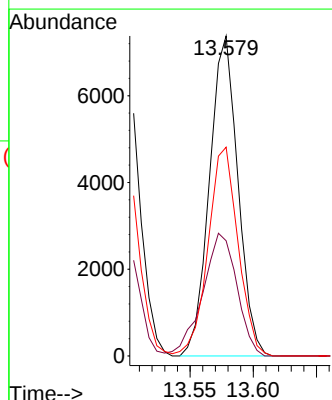
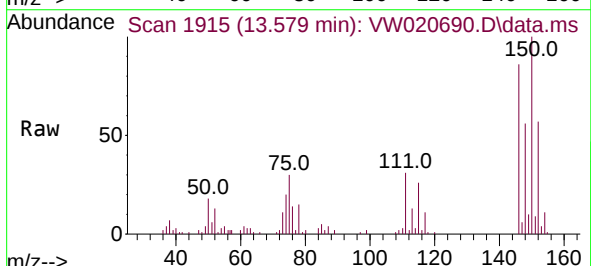
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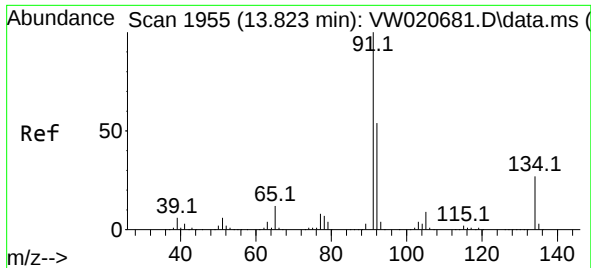


#88

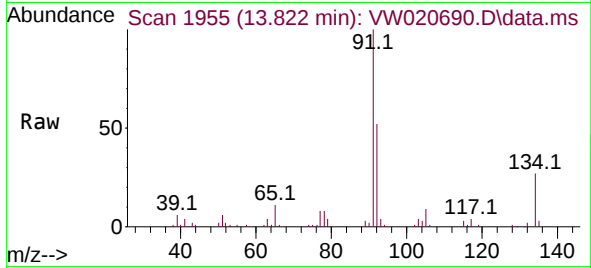
1,4-Dichlorobenzene  
Concen: 4.745 ug/l  
RT: 13.579 min Scan# 1915  
Delta R.T. 0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.2  | 19.4  | 58.4  |
| 148     | 68.8  | 32.4  | 97.2  |

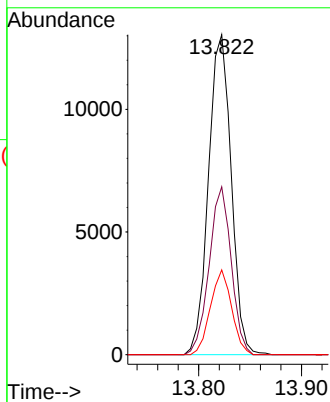
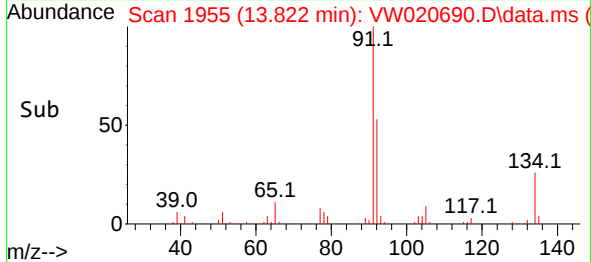




#89  
n-Butylbenzene  
Concen: 4.595 ug/l  
RT: 13.822 min Scan# 1955  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



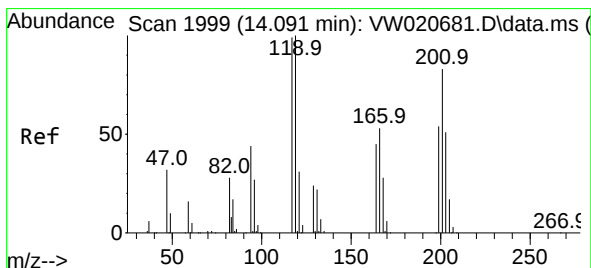
Tgt Ion: 91 Resp: 20003  
Ion Ratio Lower Upper  
91 100  
92 51.0 27.1 81.2  
134 24.8 13.4 40.1



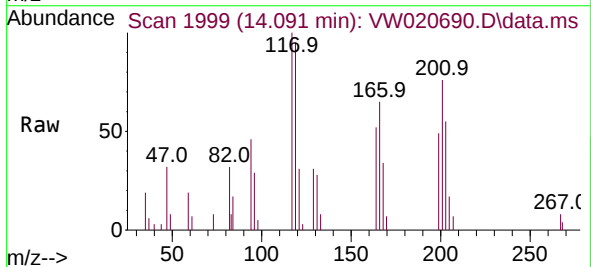
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

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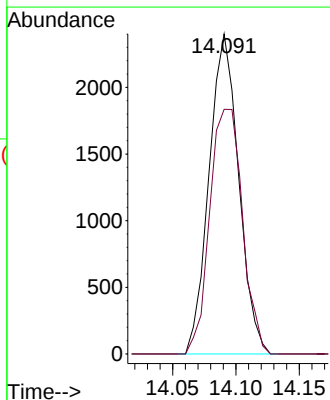
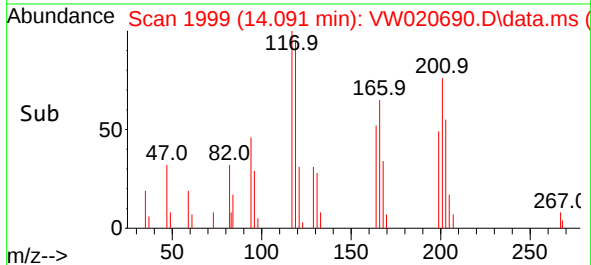
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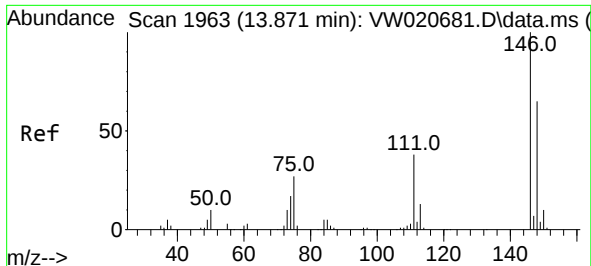


#90  
Hexachloroethane  
Concen: 4.766 ug/l  
RT: 14.091 min Scan# 1999  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



Tgt Ion: 117 Resp: 3905  
Ion Ratio Lower Upper  
117 100  
201 84.4 42.4 127.3





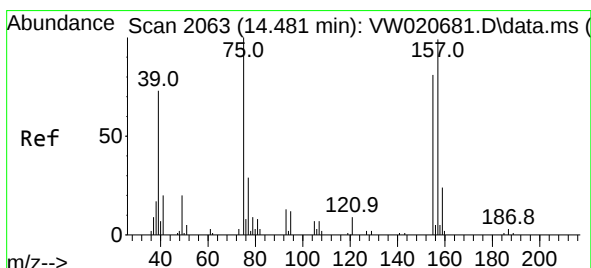
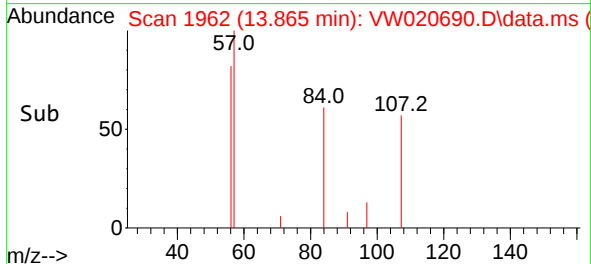
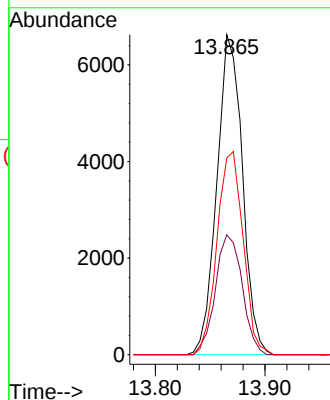
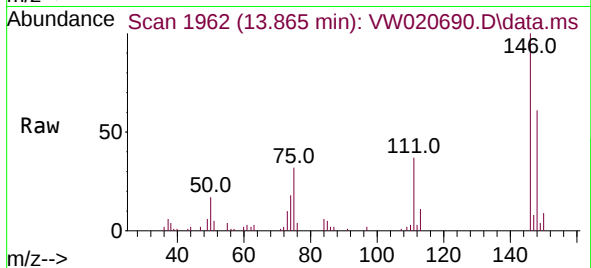
#91  
1,2-Dichlorobenzene  
Concen: 4.963 ug/l  
RT: 13.865 min Scan# 1962  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

Tgt Ion:146 Resp: 10729  
Ion Ratio Lower Upper  
146 100  
111 39.4 20.4 61.3  
148 64.9 32.0 96.2

Instrument :  
MSVOA\_W  
ClientSampleId :  
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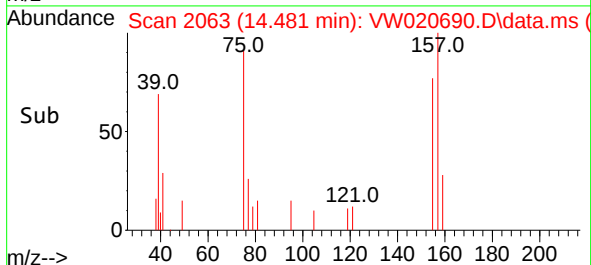
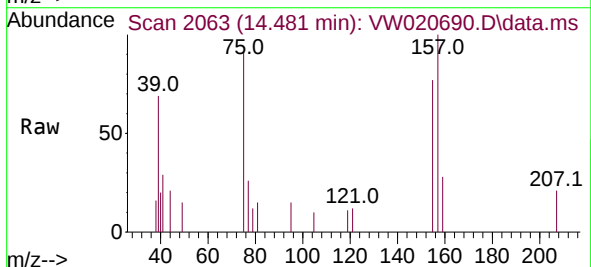
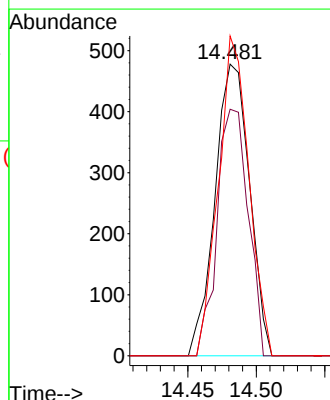
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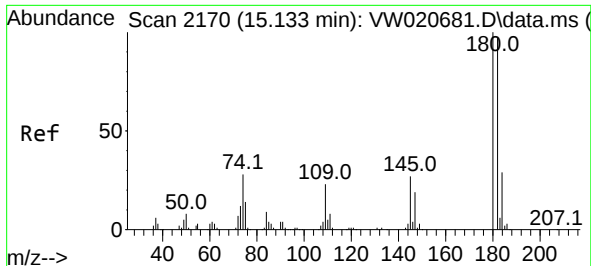
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#92  
1,2-Dibromo-3-Chloropropane  
Concen: 5.037 ug/l  
RT: 14.481 min Scan# 2063  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

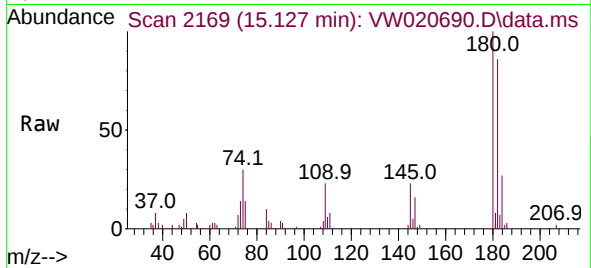
Tgt Ion: 75 Resp: 840  
Ion Ratio Lower Upper  
75 100  
155 75.8 42.5 127.6  
157 96.4 53.4 160.2





#93  
1,2,4-Trichlorobenzene  
Concen: 4.930 ug/l  
RT: 15.127 min Scan# 2169  
Delta R.T. -0.006 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

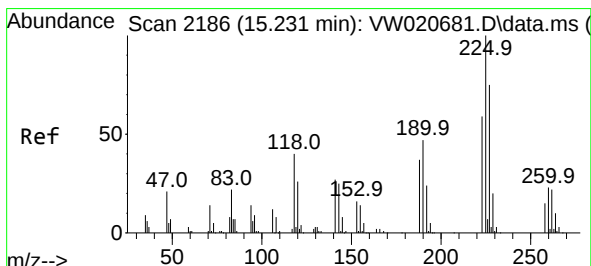
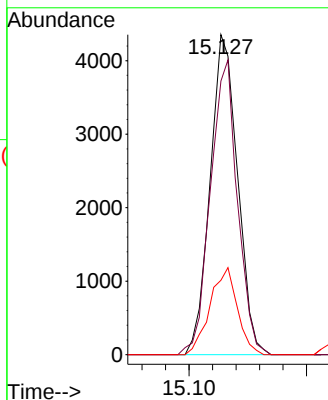
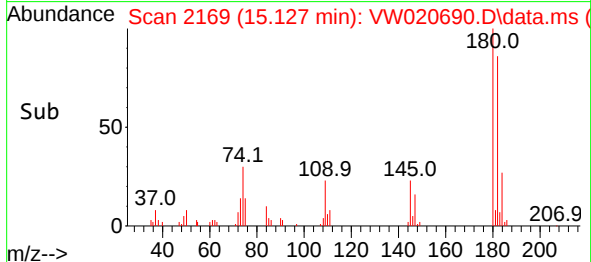
Instrument :  
MSVOA\_W  
ClientSampleId :  
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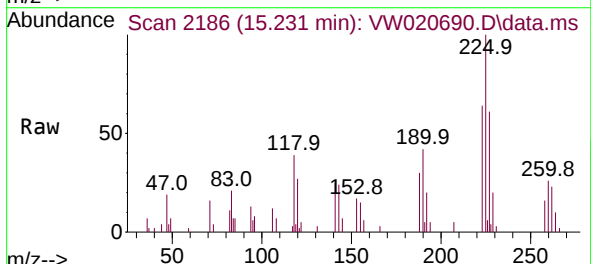
Tgt Ion:180 Resp: 7070  
Ion Ratio Lower Upper  
180 100  
182 90.6 49.4 148.2  
145 27.1 15.2 45.6

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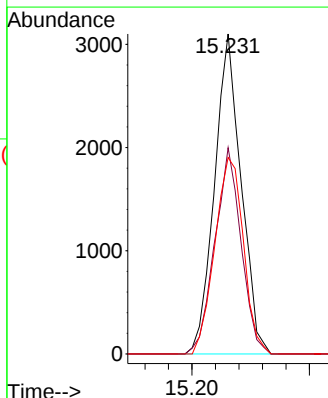
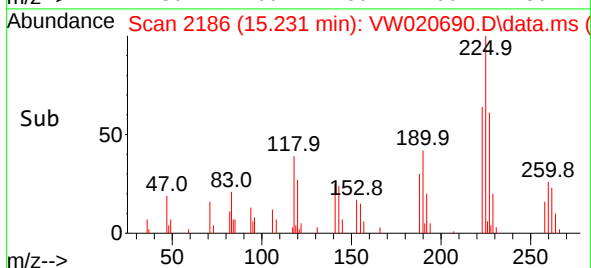
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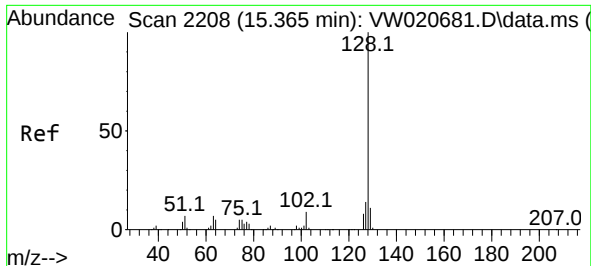


#94  
Hexachlorobutadiene  
Concen: 5.244 ug/l  
RT: 15.231 min Scan# 2186  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



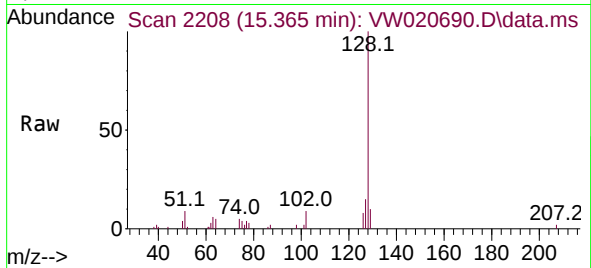
Tgt Ion:225 Resp: 4870  
Ion Ratio Lower Upper  
225 100  
223 63.5 29.8 89.5  
227 66.0 32.8 98.4





#95  
Naphthalene  
Concen: 4.414 ug/l  
RT: 15.365 min Scan# 2208  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49

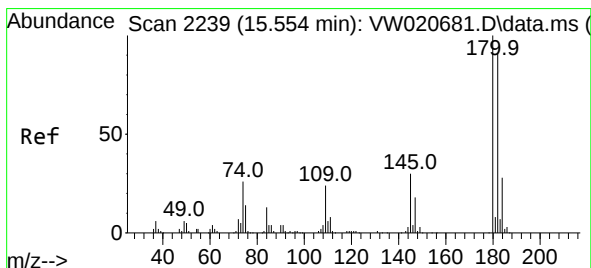
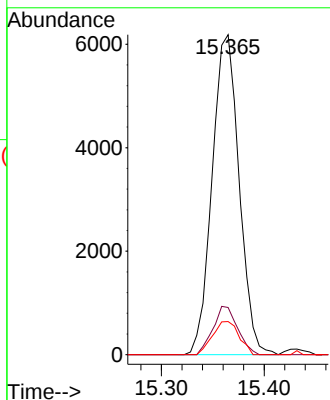
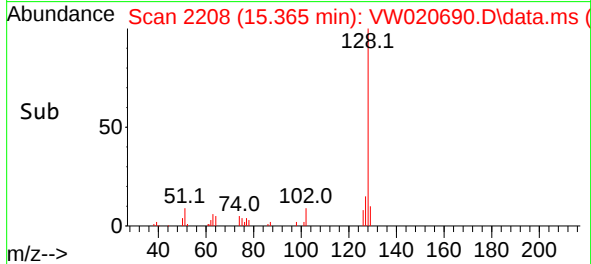
Instrument :  
MSVOA\_W  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



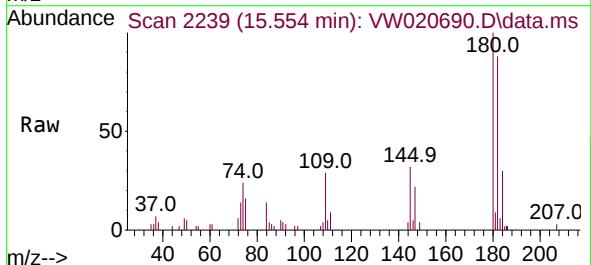
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.8  | 11.1  | 16.7  |
| 129     | 10.1  | 8.9   | 13.3  |

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#96  
1,2,3-Trichlorobenzene  
Concen: 4.790 ug/l  
RT: 15.554 min Scan# 2239  
Delta R.T. -0.000 min  
Lab File: VW020690.D  
Acq: 22 Oct 2021 18:49



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.5  | 46.4  | 139.2 |
| 145     | 32.7  | 15.7  | 47.0  |

