

Data File : VD064222.D  
Acq On : 15 Nov 2019 12:43  
Operator : VA/SY  
Sample : K5863-05  
Misc : 7.17G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1-COMP

Quant Time: Nov 16 04:50:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 2019  
Response via : Initial Calibration

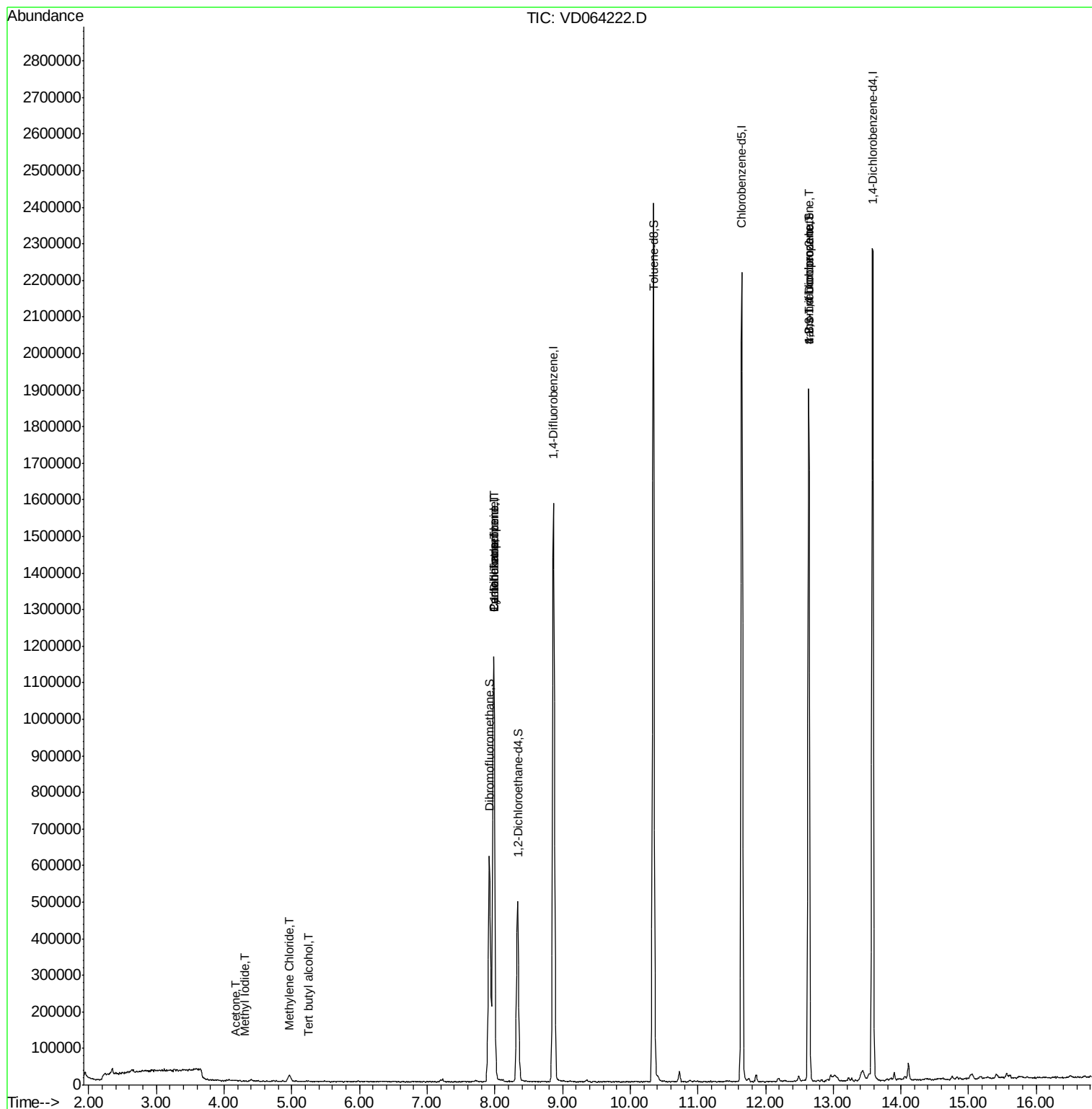
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.99  | 168  | 956818   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 1387121  | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 1288052  | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 631816   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 399449   | 50.76   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 101.52% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 419693   | 52.71   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 105.42% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 1646925  | 54.83   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 109.66% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 576602   | 55.43   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 110.86% |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 10) Methyl Iodide              | 4.31  | 142  | 725      | 2.104   | ug/l #  | 84       |
| 11) Tert butyl alcohol         | 5.24  | 59   | 808      | 1.470   | ug/l #  | 24       |
| 16) Acetone                    | 4.17  | 43   | 2661     | 1.427   | ug/l    | 97       |
| 20) Methylene Chloride         | 4.96  | 84   | 12955    | 1.376   | ug/l    | 96       |
| 31) Cyclohexane                | 7.99  | 56   | 19549    | 1.266   | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 63491    | 4.959   | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 84576    | 6.174   | ug/l #  | 15       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 294088   | 57.788  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 294088   | 114.790 | ug/l #  | 10       |

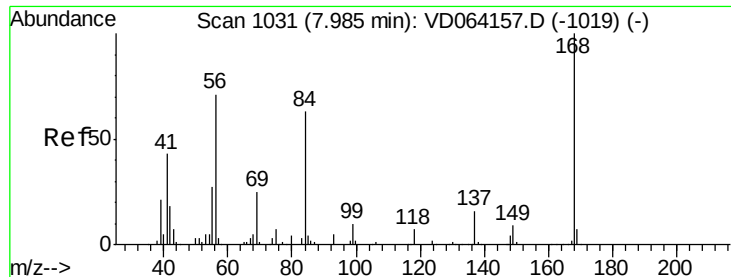
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064222.D

Acq: 15 Nov 2019 12:43

Instrument :

MSVOA\_D

ClientSampleId :

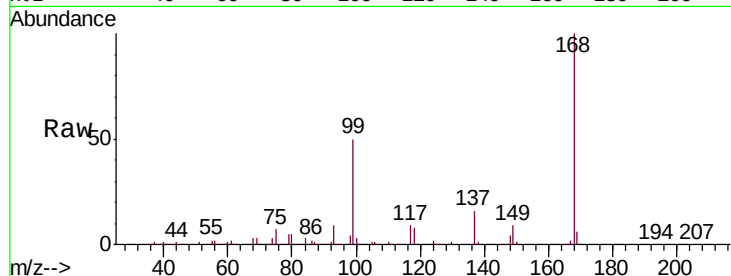
TP-1-COMP

Tgt Ion:168 Resp: 956818

Ion Ratio Lower Upper

168 100

99 49.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.99

400000

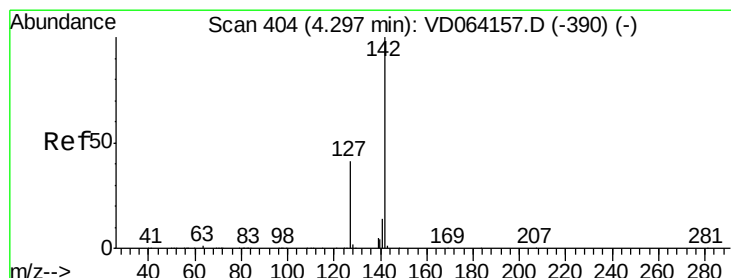
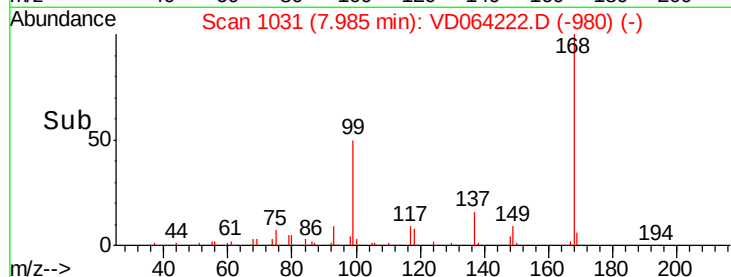
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 2.104 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.01 min

Lab File: VD064222.D

Acq: 15 Nov 2019 12:43

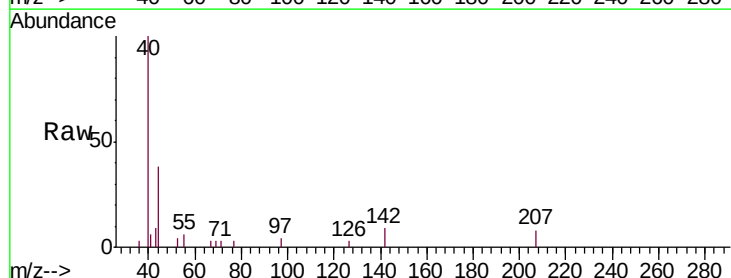
Tgt Ion:142 Resp: 725

Ion Ratio Lower Upper

142 100

127 36.6 34.4 51.6

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

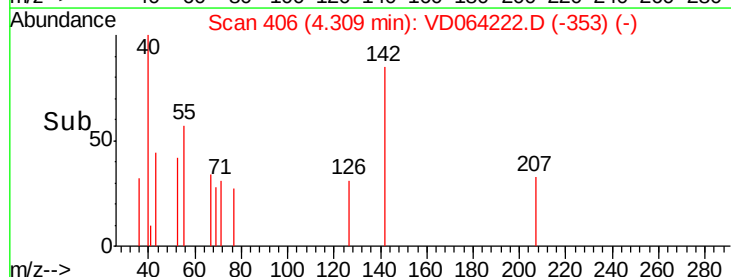
4.31

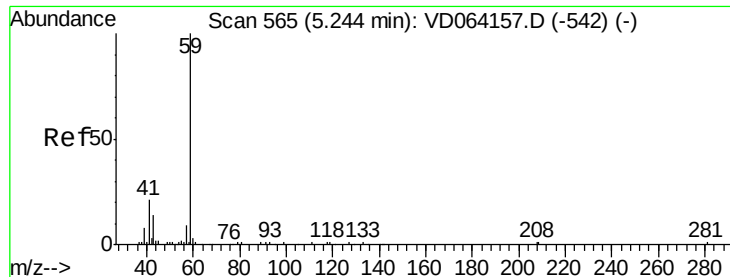
400

200

0

Time-->

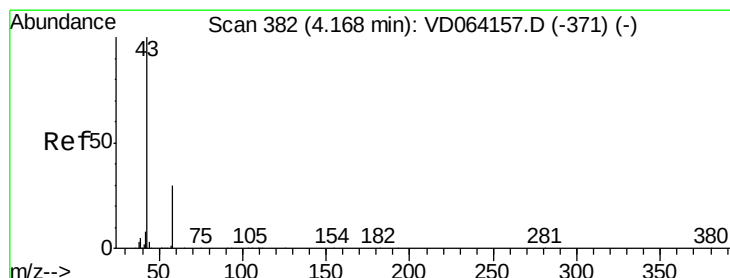
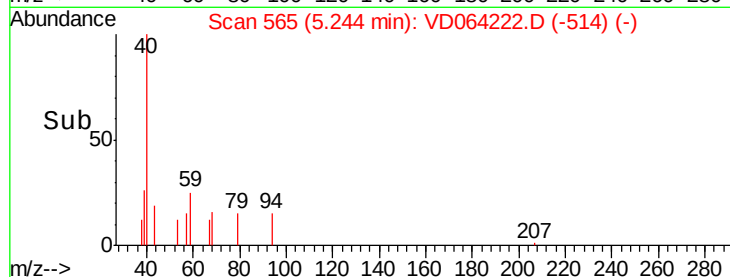
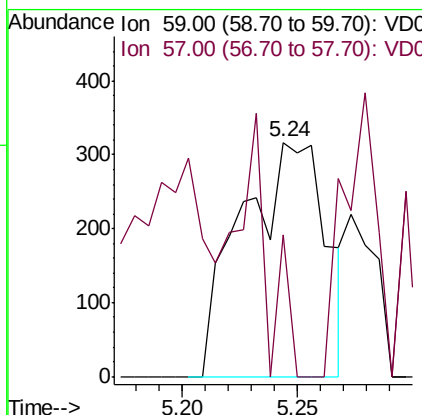
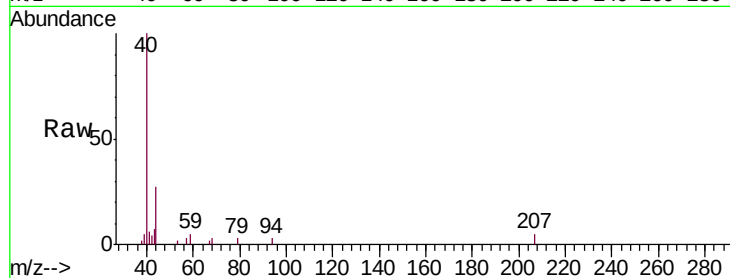




#11  
Tert butyl alcohol  
Concen: 1.470 ug/l  
RT: 5.24 min Scan# 565  
Delta R.T. 0.00 min  
Lab File: VD064222.D  
Acq: 15 Nov 2019 12:43

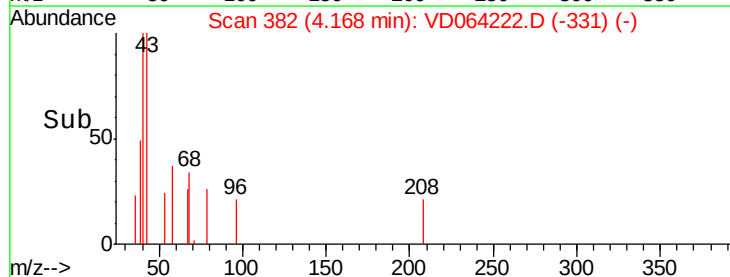
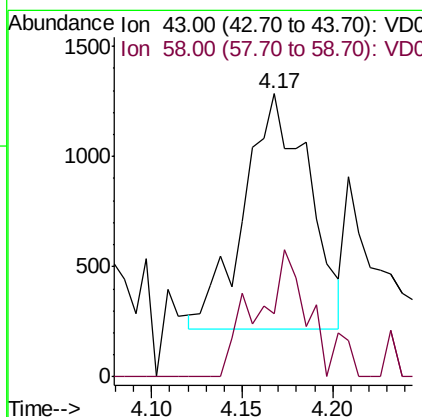
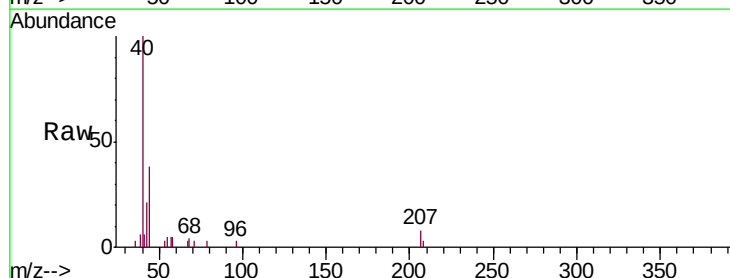
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1-COMP

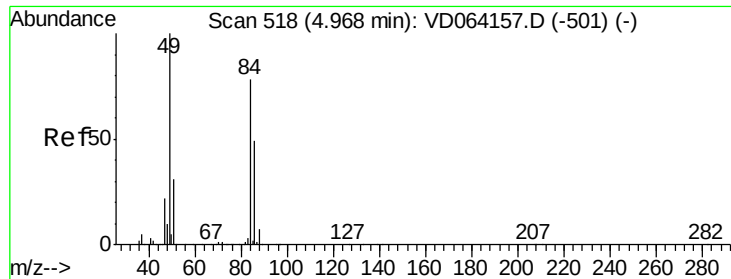
Tgt Ion: 59 Resp: 808  
Ion Ratio Lower Upper  
59 100  
57 41.1 9.4 14.2#



#16  
Acetone  
Concen: 1.427 ug/l  
RT: 4.17 min Scan# 382  
Delta R.T. 0.00 min  
Lab File: VD064222.D  
Acq: 15 Nov 2019 12:43

Tgt Ion: 43 Resp: 2661  
Ion Ratio Lower Upper  
43 100  
58 28.2 24.1 36.1

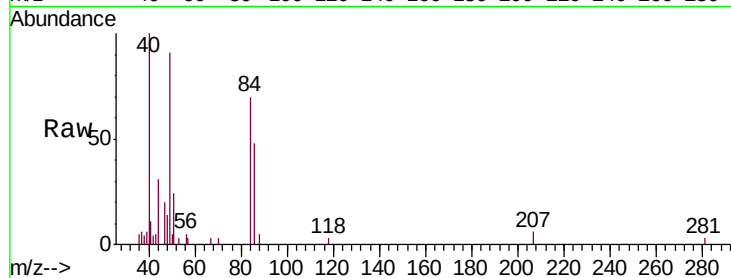




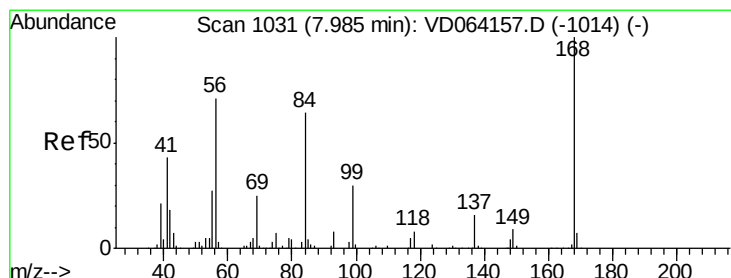
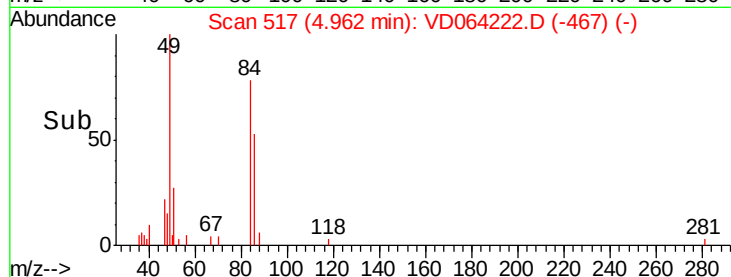
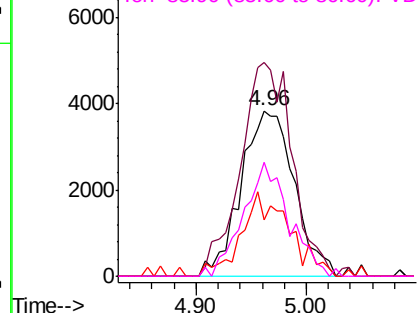
#20  
Methylene Chloride  
Concen: 1.376 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD064222.D  
Acq: 15 Nov 2019 12:43

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1-COMP

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 12955 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 128.8 | 102.1 | 153.1 |
| 51       | 34.3  | 32.2  | 48.2  |
| 86       | 68.4  | 49.9  | 74.9  |

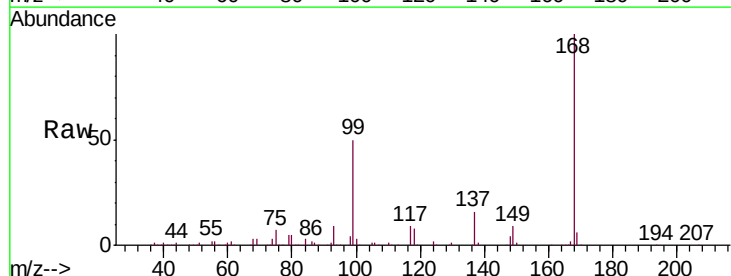


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

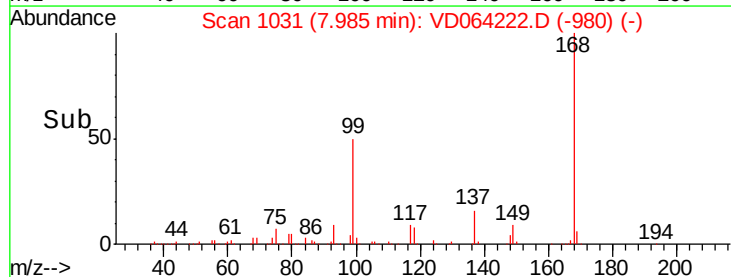
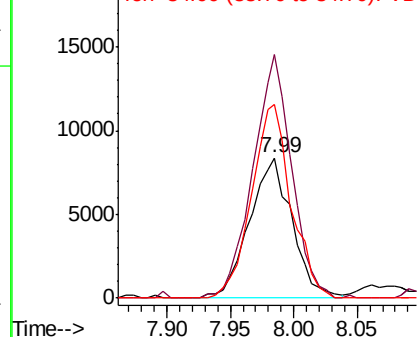


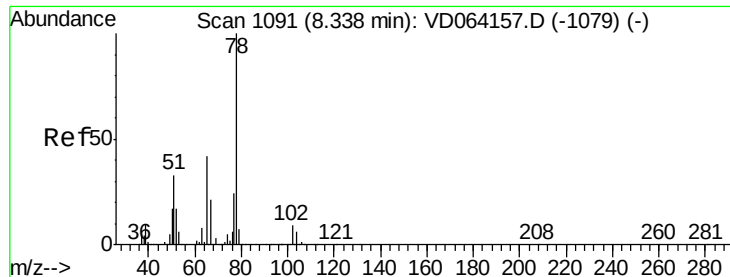
#31  
Cyclohexane  
Concen: 1.266 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD064222.D  
Acq: 15 Nov 2019 12:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 19549  |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 174.0 | 28.2  | 42.4#  |
| 84       | 138.7 | 71.8  | 107.6# |



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

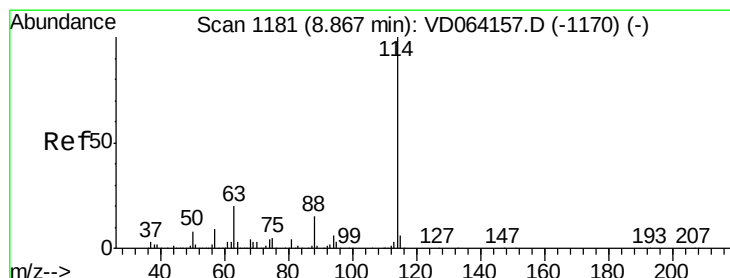
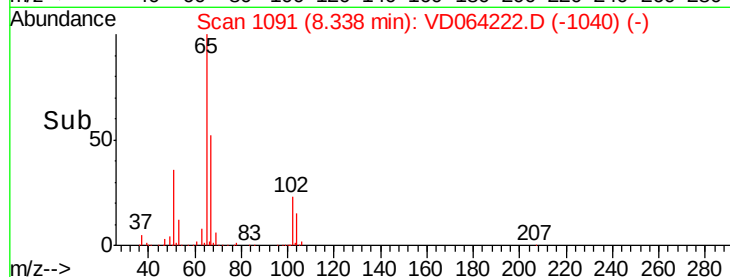
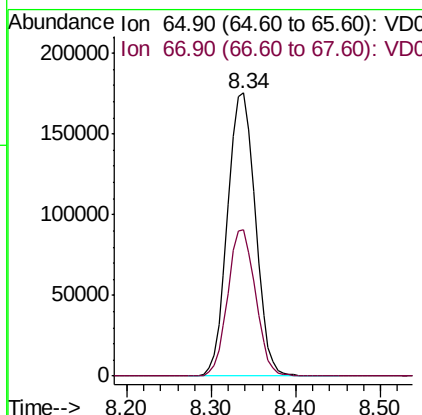
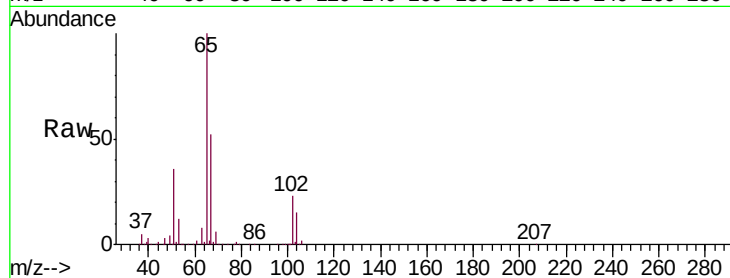




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.761 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.00 min  
 Lab File: VD064222.D  
 Acq: 15 Nov 2019 12:43

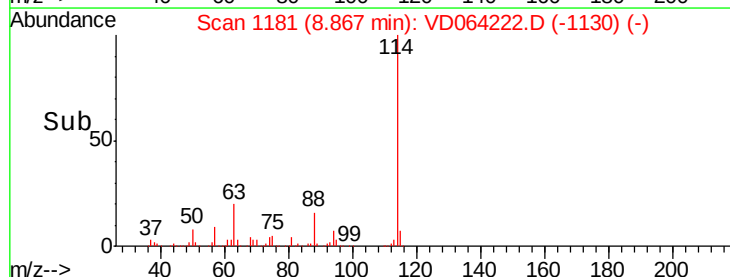
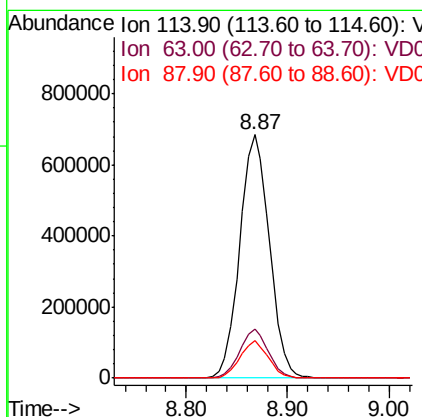
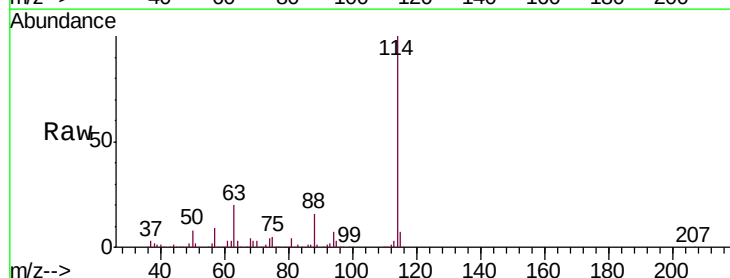
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1-COMP

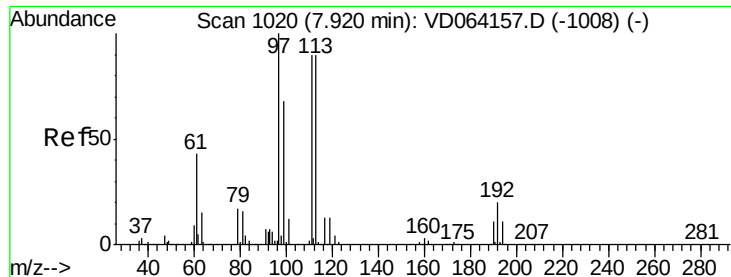
Tgt Ion: 65 Resp: 399449  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064222.D  
 Acq: 15 Nov 2019 12:43

Tgt Ion: 114 Resp: 1387121  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 40.0  
 88 15.6 0.0 30.2

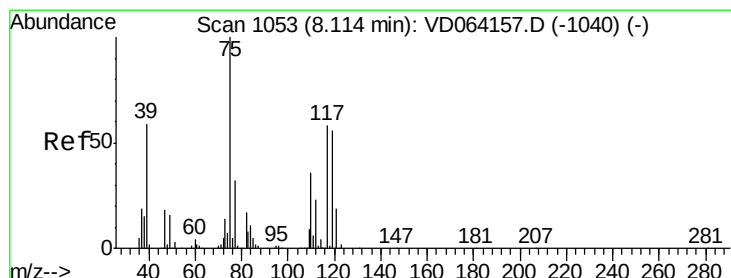
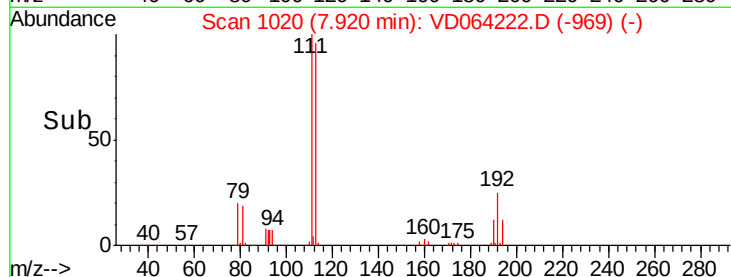
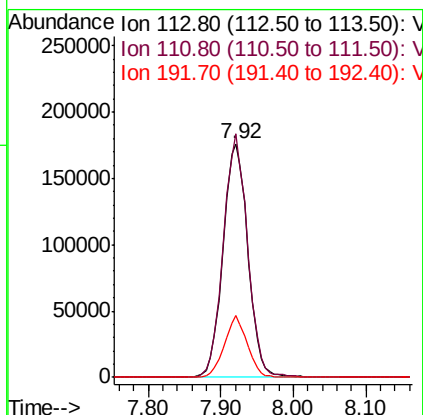
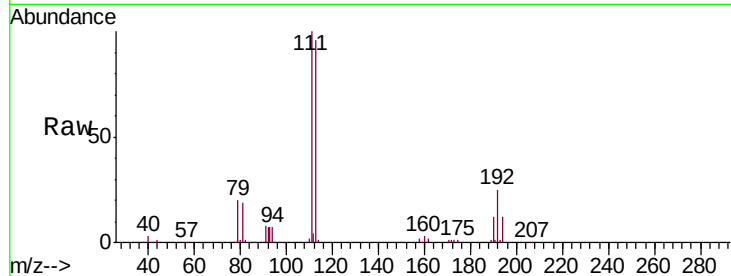




#35  
 Dibromofluoromethane  
 Concen: 52.710 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064222.D  
 Acq: 15 Nov 2019 12:43

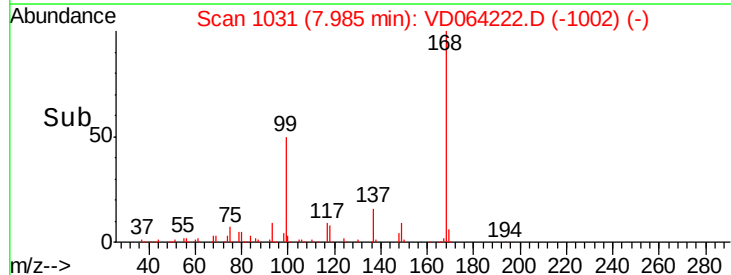
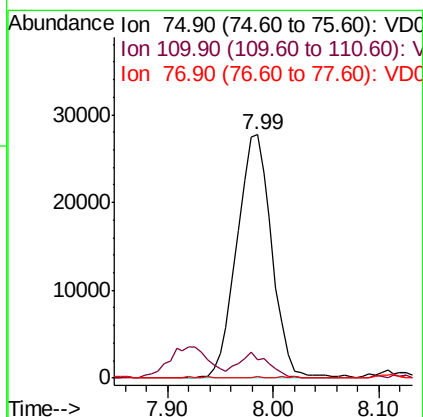
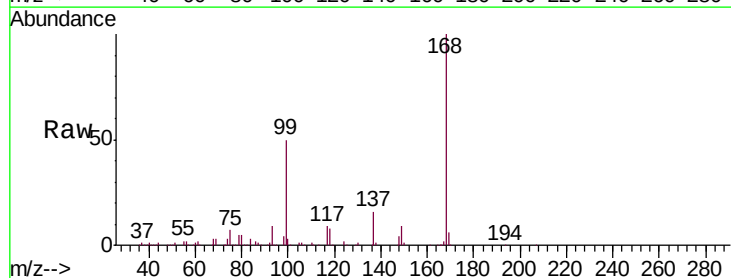
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1-COMP

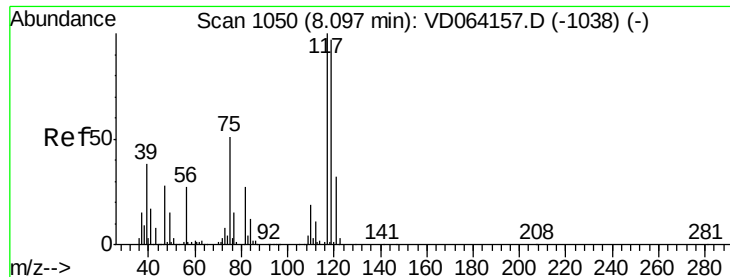
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.6 | 81.5  | 122.3 |
| 192     | 24.3  | 18.8  | 28.2  |



#36  
 1,1-Dichloropropene  
 Concen: 4.959 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064222.D  
 Acq: 15 Nov 2019 12:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.2   | 18.3  | 54.9# |
| 77      | 0.1   | 25.0  | 37.6# |





#38

Carbon Tetrachloride

Concen: 6.174 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064222.D

Acq: 15 Nov 2019 12:43

Instrument :

MSVOA\_D

ClientSampleId :

TP-1-COMP

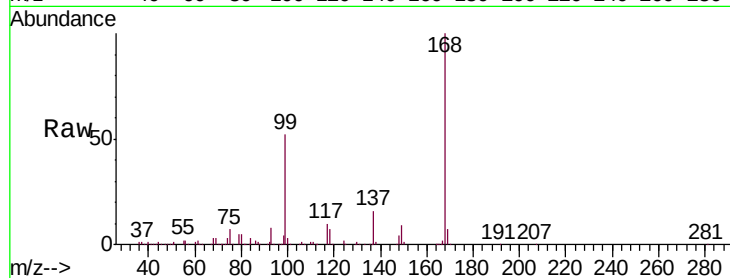
Tgt Ion:117 Resp: 84576

Ion Ratio Lower Upper

117 100

119 4.6 77.2 115.8#

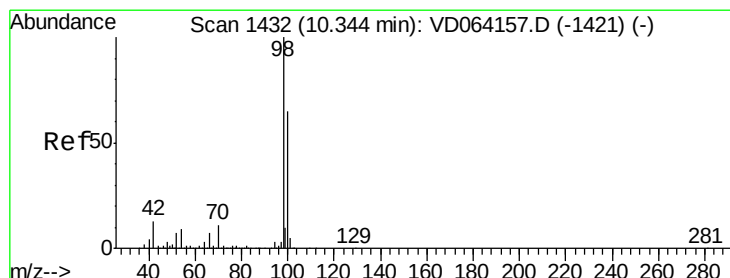
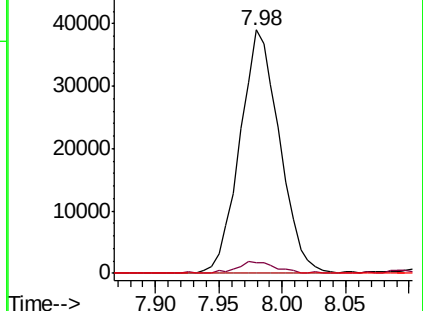
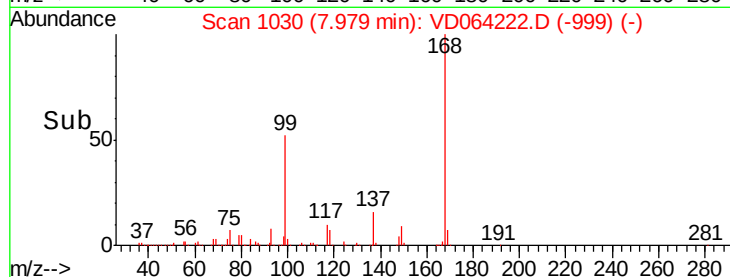
121 0.0 25.5 38.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 54.830 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064222.D

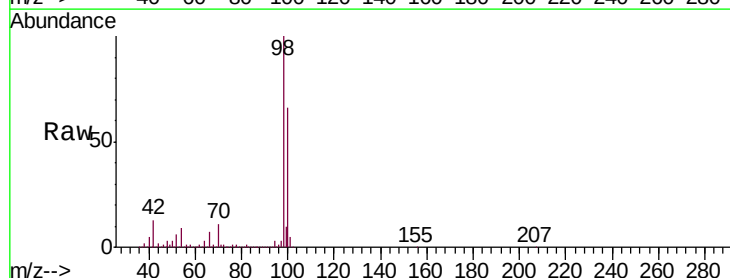
Acq: 15 Nov 2019 12:43

Tgt Ion: 98 Resp: 1646925

Ion Ratio Lower Upper

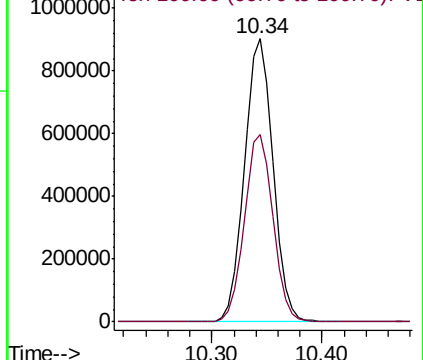
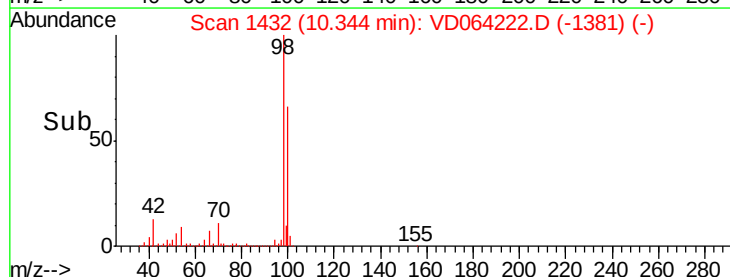
98 100

100 65.9 52.6 78.8

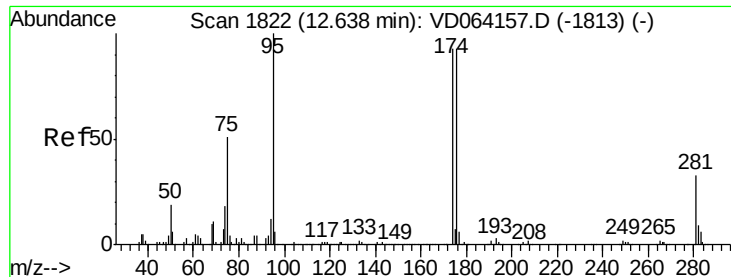


Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V



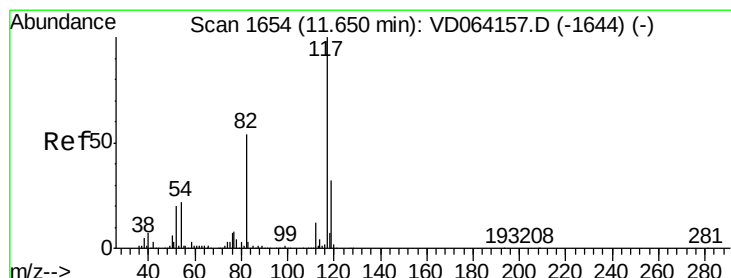
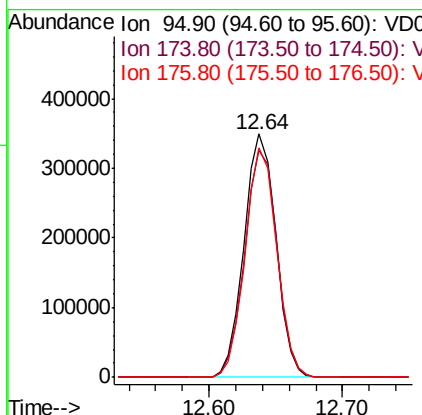
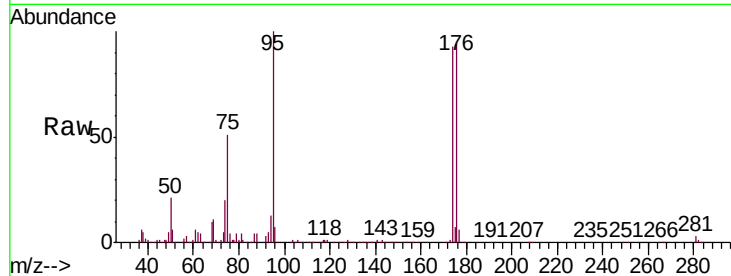




#62  
4-Bromofluorobenzene  
Concen: 55.431 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064222.D  
Acq: 15 Nov 2019 12:43

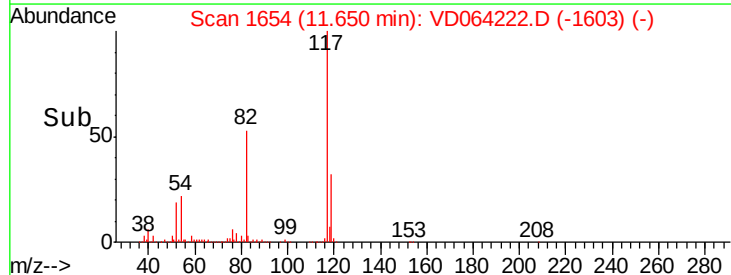
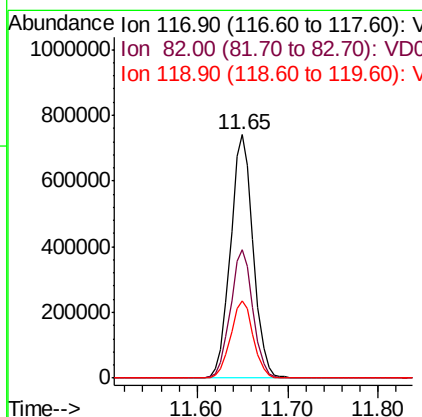
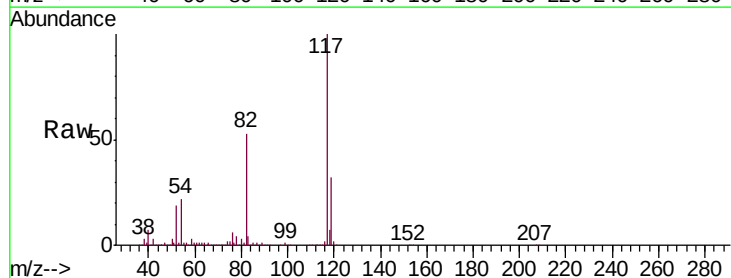
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1-COMP

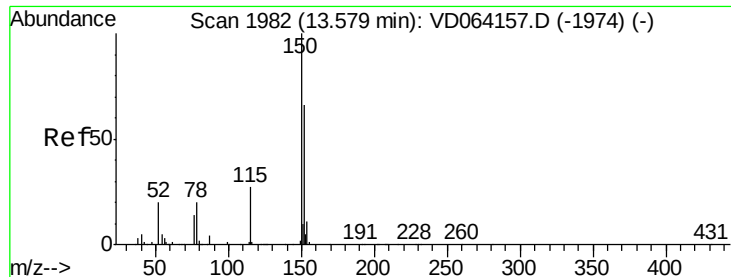
Tgt Ion: 95 Resp: 576602  
Ion Ratio Lower Upper  
95 100  
174 94.6 0.0 183.6  
176 93.3 0.0 180.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064222.D  
Acq: 15 Nov 2019 12:43

Tgt Ion: 117 Resp: 1288052  
Ion Ratio Lower Upper  
117 100  
82 52.7 42.8 64.2  
119 31.9 25.6 38.4

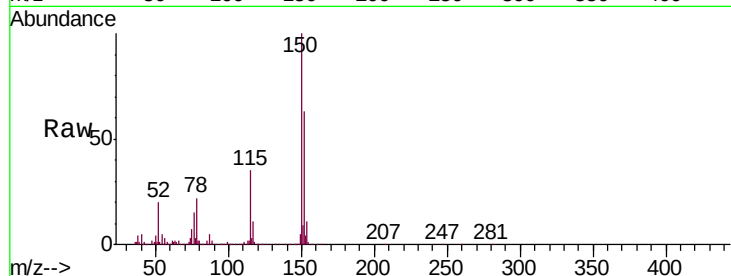




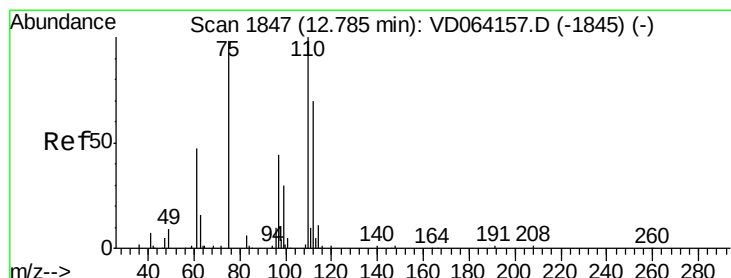
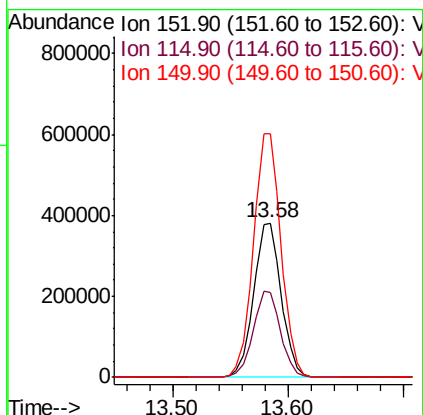
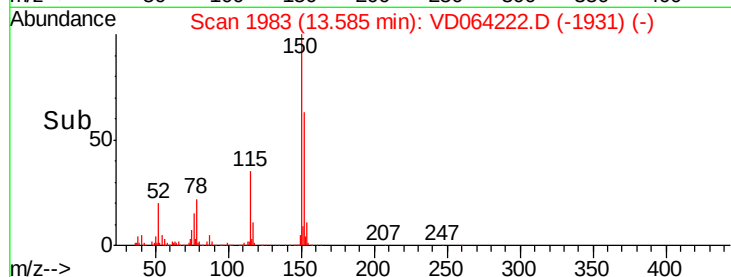
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.58 min Scan# 1983  
 Delta R.T. 0.01 min  
 Lab File: VD064222.D  
 Acq: 15 Nov 2019 12:43

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1-COMP

Tgt Ion: 152 Resp: 631816  
 Ion Ratio Lower Upper  
 152 100  
 115 55.7 27.4 82.2  
 150 158.3 0.0 351.6

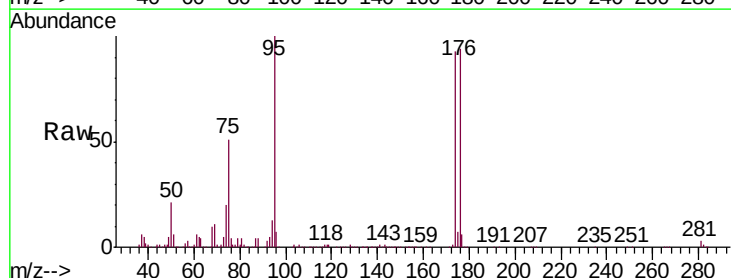


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

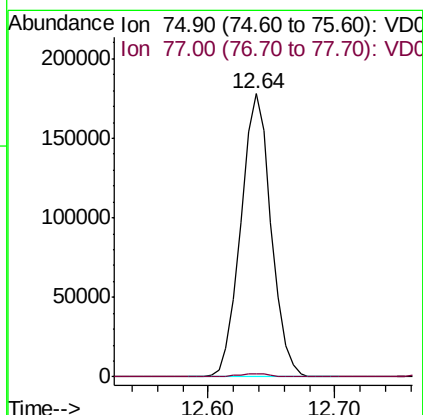
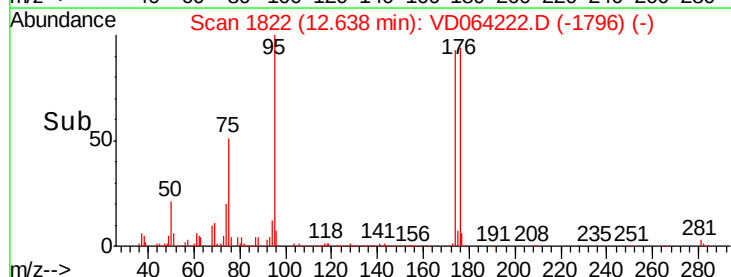


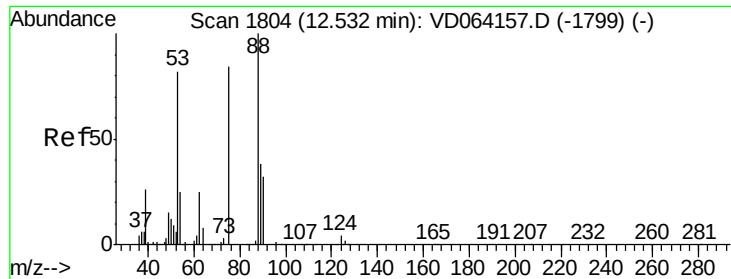
#76  
 1,2,3-Trichloropropane  
 Concen: 57.788 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.15 min  
 Lab File: VD064222.D  
 Acq: 15 Nov 2019 12:43

Tgt Ion: 75 Resp: 294088  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC  
 Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 114.790 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064222.D

Acq: 15 Nov 2019 12:43

Instrument :

MSVOA\_D

ClientSampleId :

TP-1-COMP

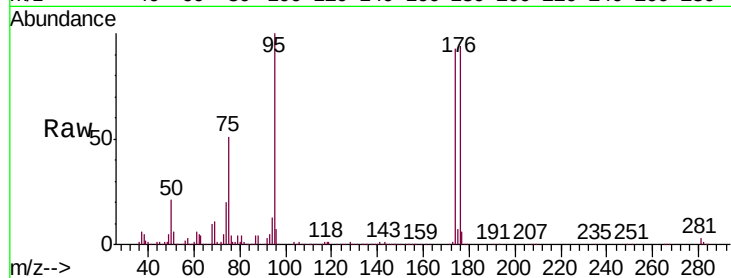
Tgt Ion: 75 Resp: 294088

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

