

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030920\  
 Data File : VD065448.D  
 Acq On : 09 Mar 2020 14:25  
 Operator : VA/SY  
 Sample : L1844-04  
 Misc : 8.98G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Mar 10 12:21:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

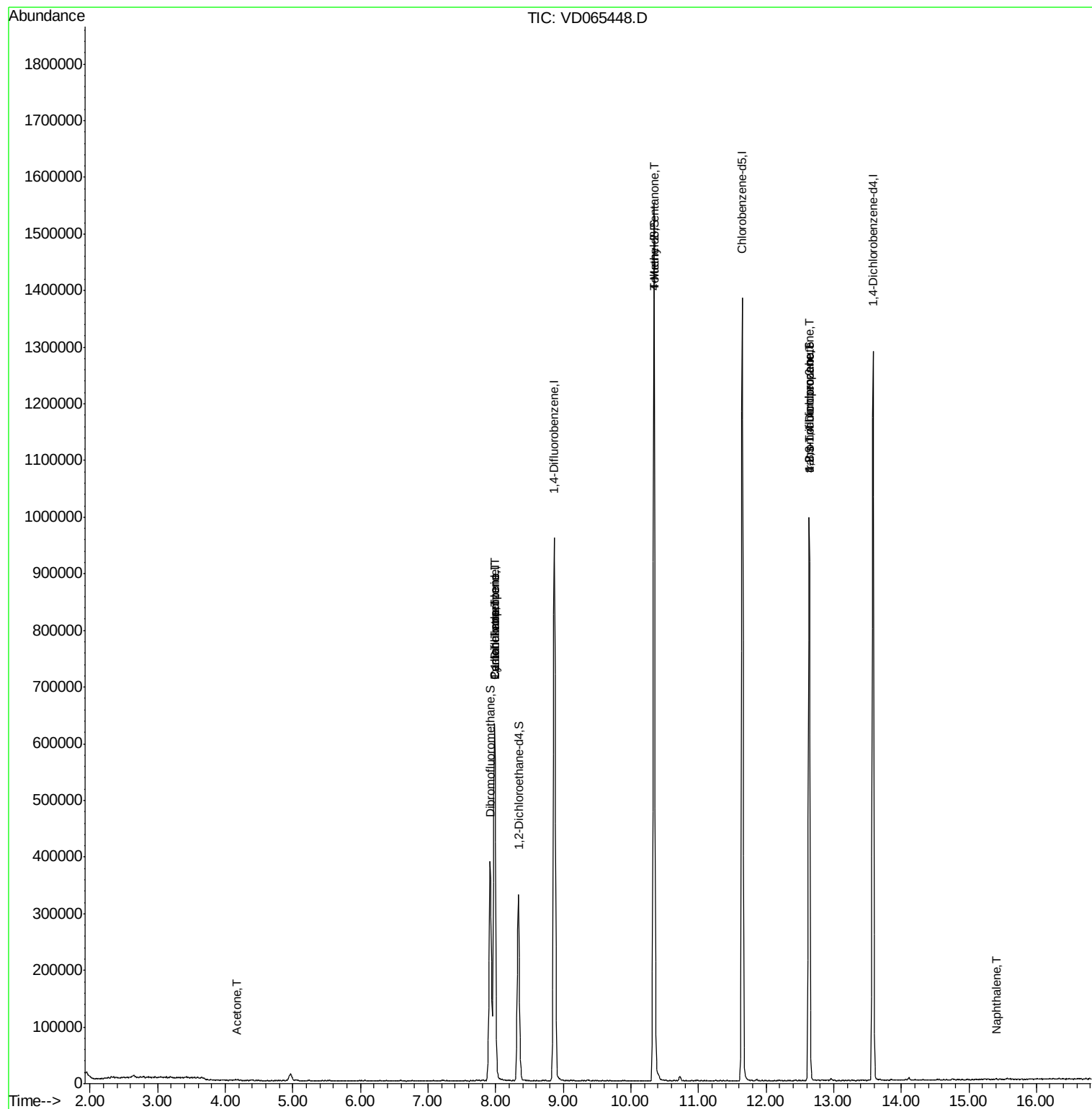
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 505501   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 861967   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 801026   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 361657   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 261592   | 60.33     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 120.66% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 282130   | 52.93     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.86% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 1051454  | 51.42     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.84% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 315960   | 50.05     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.10% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 5) Bromomethane                | 2.78  | 94   | 753      | Below Cal | #       | 58       |
| 16) Acetone                    | 4.17  | 43   | 3385     | 3.860     | ug/l    | 95       |
| 20) Methylene Chloride         | 4.97  | 84   | 9983     | Below Cal | #       | 78       |
| 31) Cyclohexane                | 7.98  | 56   | 9823     | 1.141     | ug/l #  | 21       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 35247    | 4.266     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 46672    | 5.447     | ug/l #  | 19       |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 4359     | 1.469     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 154108   | 54.002    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 154108   | 113.959   | ug/l #  | 14       |
| 95) Naphthalene                | 15.41 | 128  | 1049     | 4.489     | ug/l #  | 69       |

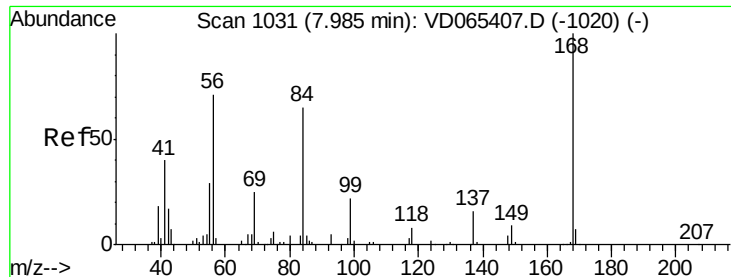
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

Quant Time: Mar 10 12:21:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 01:22:07 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

Instrument :

MSVOA\_D

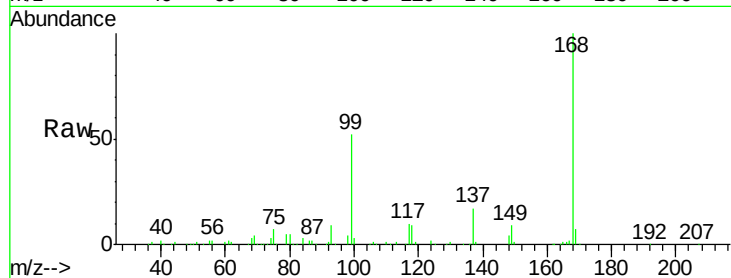
ClientSampleId :

Tot Ion:168 Resp: 505501

Ion Ratio Lower Upper

168 100

99 52.3 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

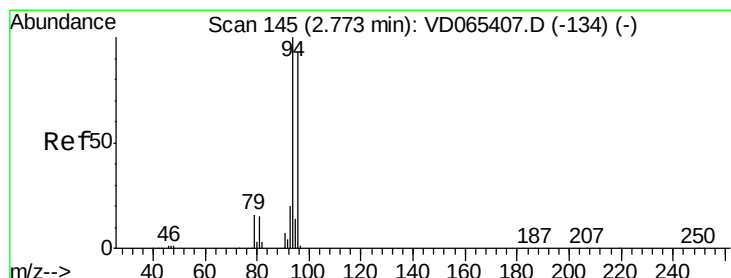
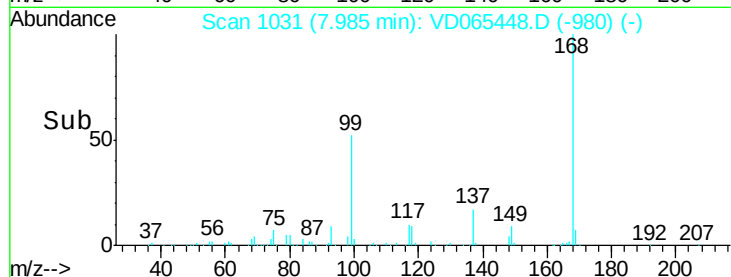
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065448.D

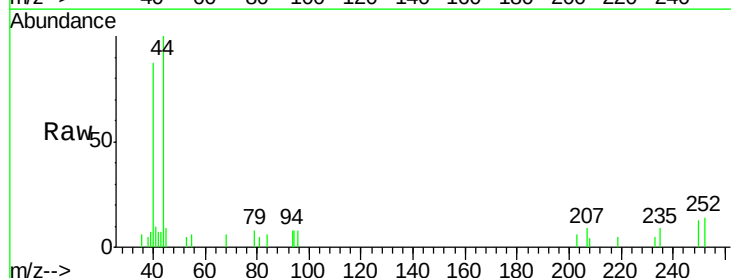
Acq: 09 Mar 2020 14:25

Tgt Ion: 94 Resp: 753

Ion Ratio Lower Upper

94 100

96 52.7 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.78

600

500

400

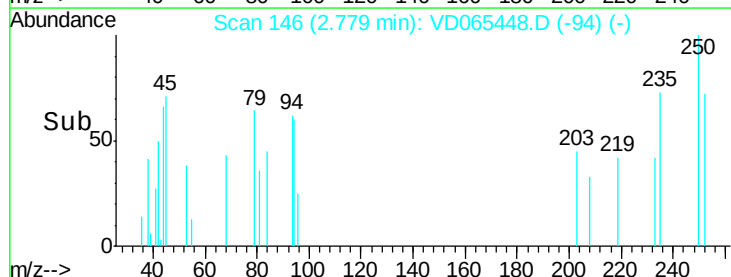
300

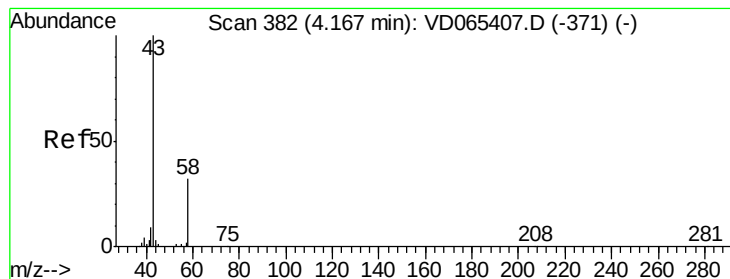
200

100

0

Time-->





#16

Acetone

Concen: 3.860 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

Instrument :

MSVOA\_D

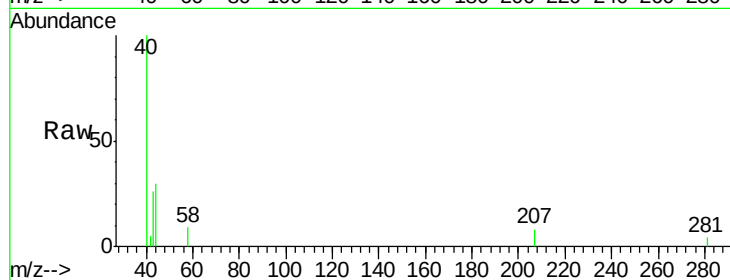
ClientSampled :

Tot Ion: 43 Resp: 3385

Ion Ratio Lower Upper

43 100

58 34.1 25.1 37.7

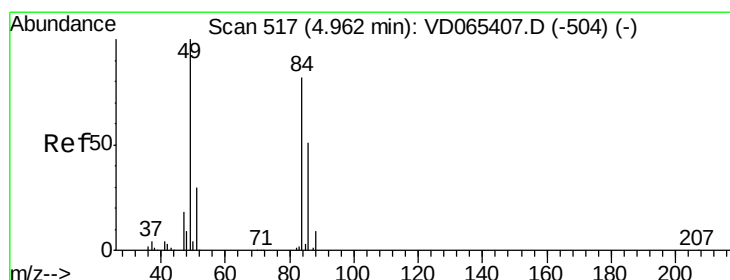
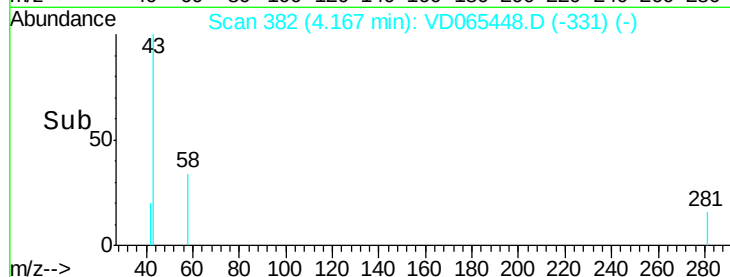


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

Time-->

4.10 4.15 4.20 4.25



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

Tgt Ion: 84 Resp: 9983

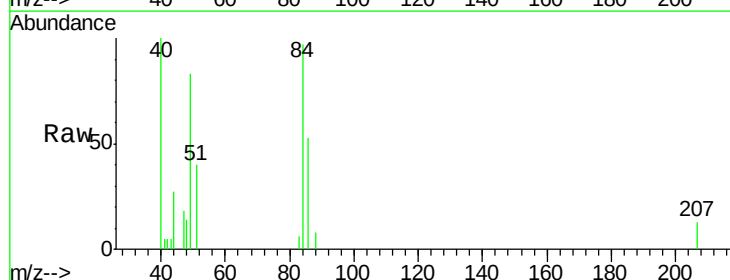
Ion Ratio Lower Upper

84 100

49 85.9 97.7 146.5#

51 41.5 28.8 43.2

86 54.8 49.5 74.3



Abundance Ion 83.90 (83.60 to 84.60): VDC

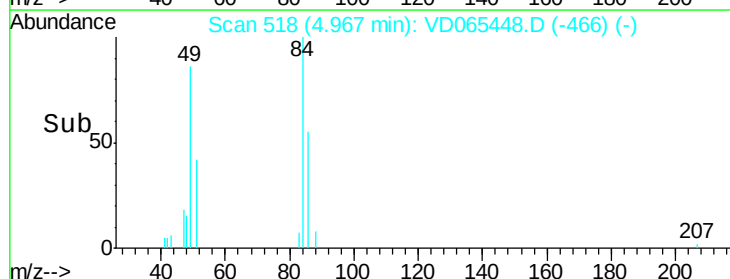
Ion 48.90 (48.60 to 49.60): VDC

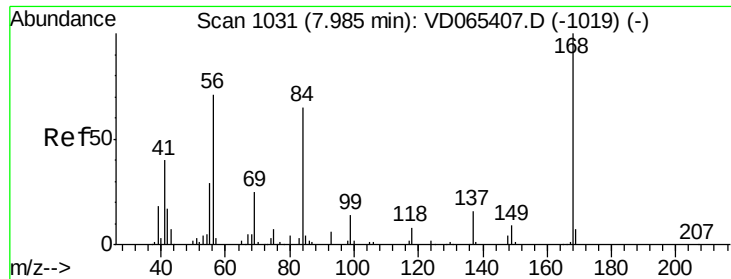
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

Time-->

4.85 4.90 4.95 5.00 5.05

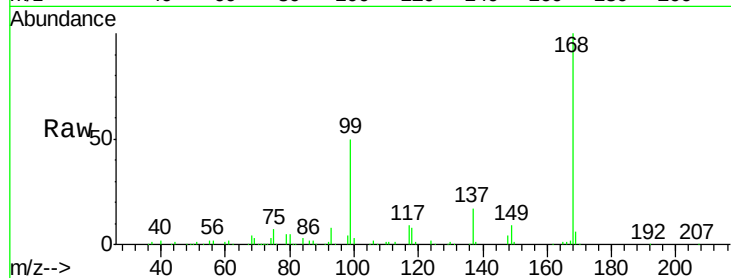




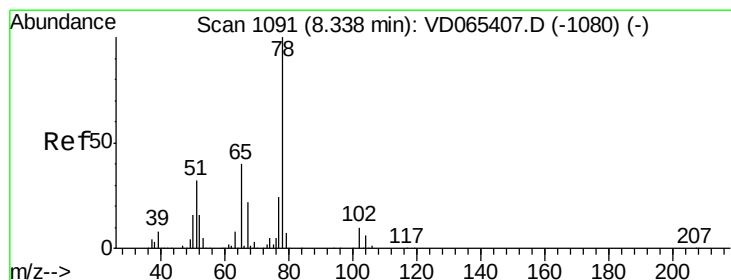
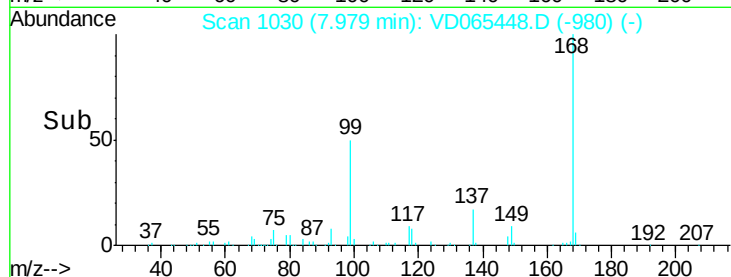
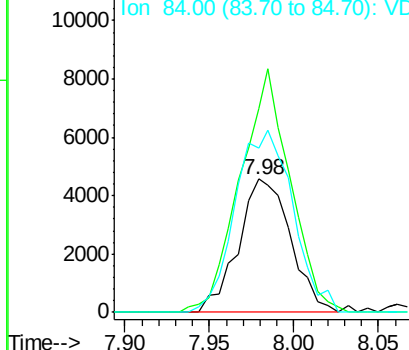
#31  
Cyclohexane  
Concen: 1.141 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD065448.D  
Acq: 09 Mar 2020 14:25

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 56 Resp: 9823  
Ion Ratio Lower Upper  
56 100  
69 149.8 28.3 42.5#  
84 123.3 73.1 109.7#

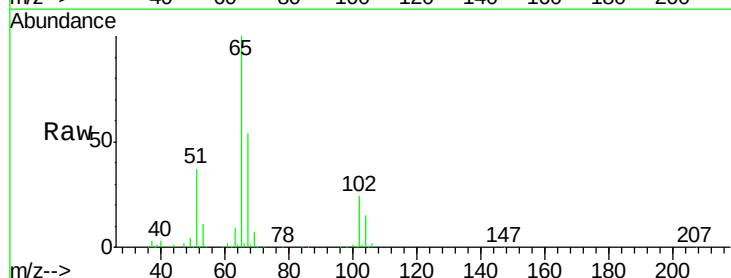


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

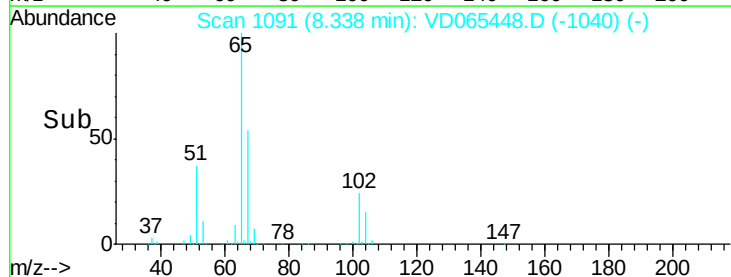
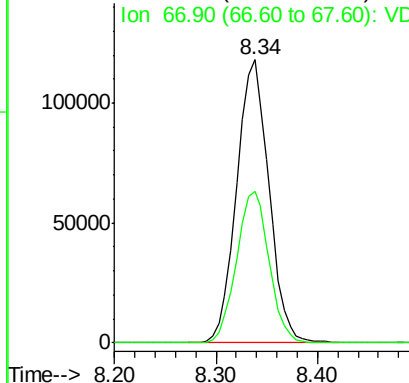


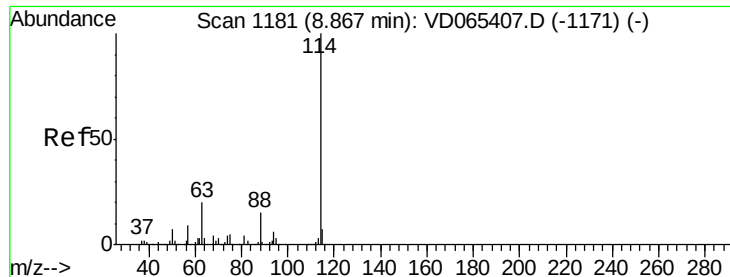
#33  
1,2-Dichloroethane-d4  
Concen: 60.328 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. -0.00 min  
Lab File: VD065448.D  
Acq: 09 Mar 2020 14:25

Tgt Ion: 65 Resp: 261592  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 108.0



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

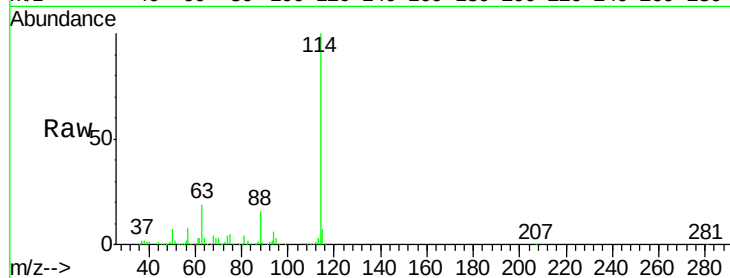




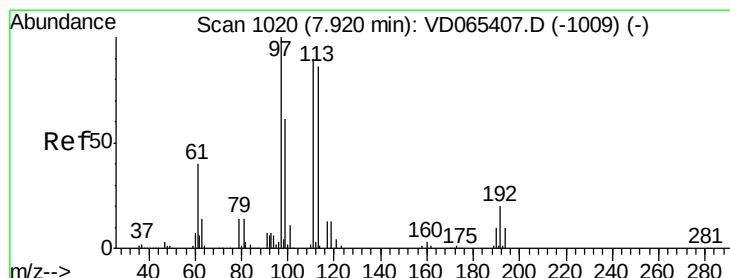
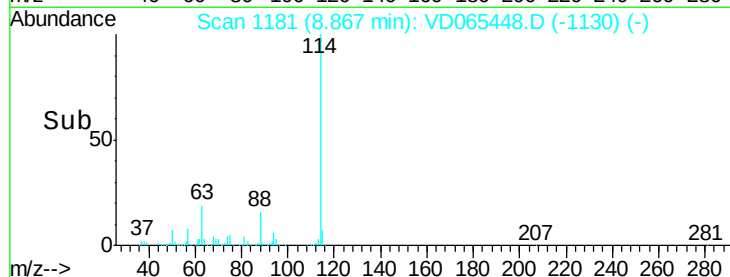
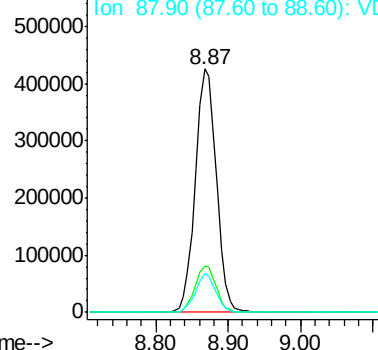
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065448.D  
 Acq: 09 Mar 2020 14:25

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.9  | 0.0   | 39.6  |
| 88      | 15.8  | 0.0   | 30.4  |

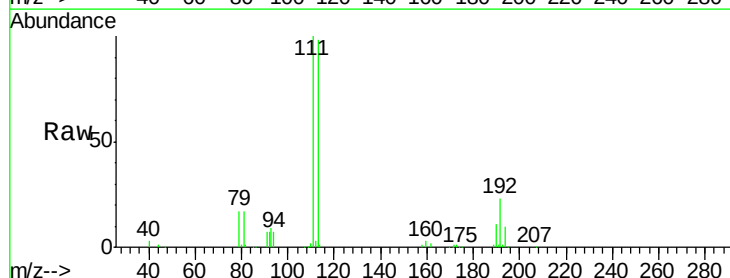


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

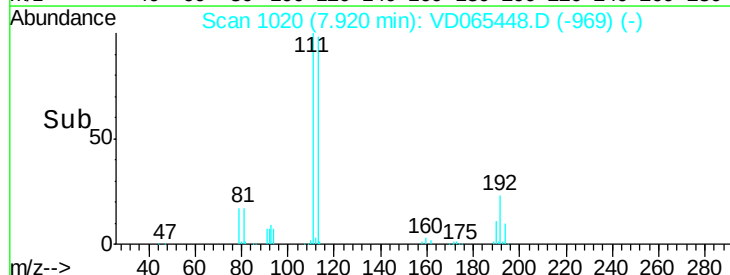
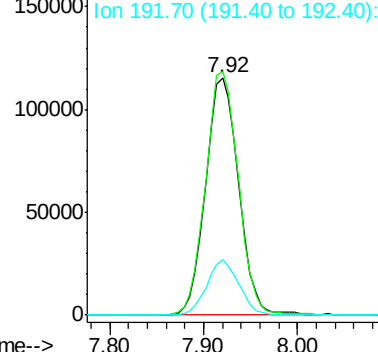


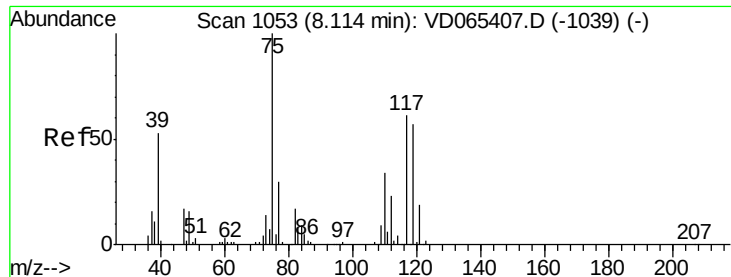
#35  
 Dibromofluoromethane  
 Concen: 52.928 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065448.D  
 Acq: 09 Mar 2020 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 82.1  | 123.1 |
| 192     | 22.4  | 17.2  | 25.8  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

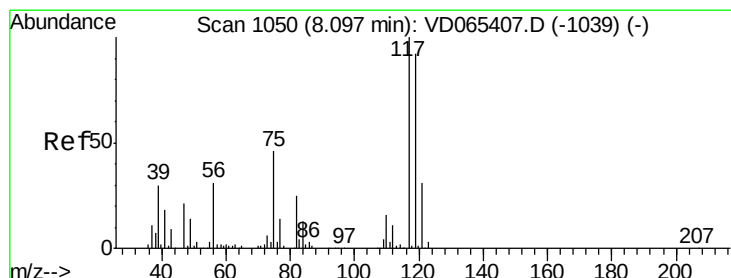
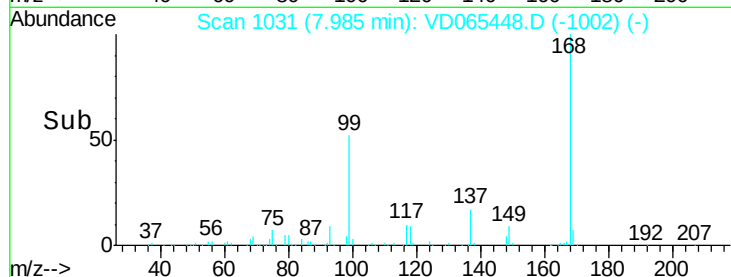
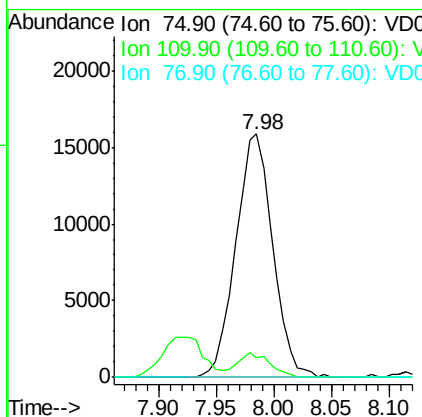
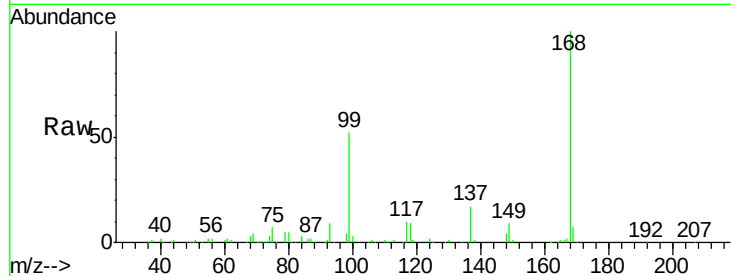




#36  
 1,1-Dichloropropene  
 Concen: 4.266 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD065448.D  
 Acq: 09 Mar 2020 14:25

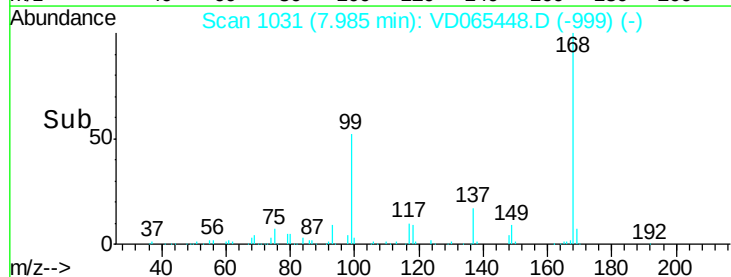
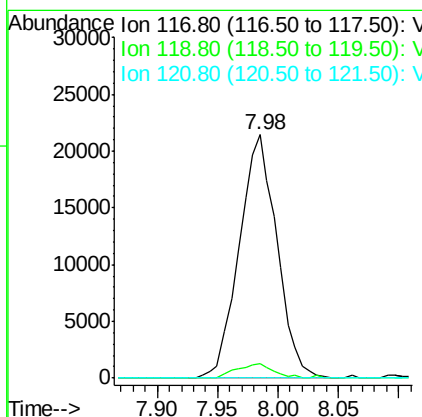
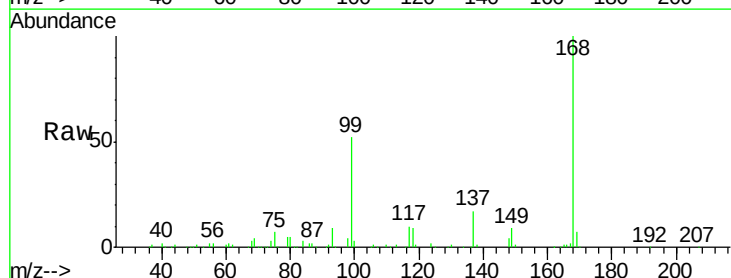
Instrument :  
 MSVOA\_D  
 ClientSampleID :

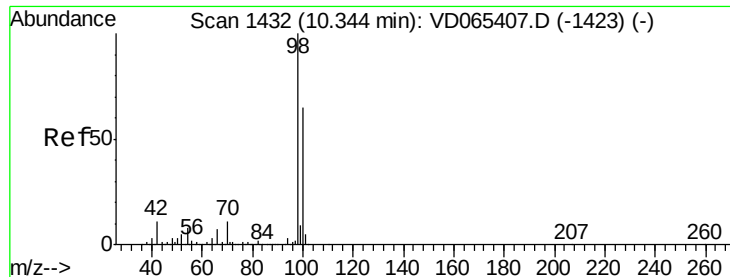
| Tot Ion   | 75  | Resp  | 35247 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 9.1 | 18.1  | 54.1# |
| 77        | 0.0 | 25.2  | 37.8# |



#38  
 Carbon Tetrachloride  
 Concen: 5.447 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.11 min  
 Lab File: VD065448.D  
 Acq: 09 Mar 2020 14:25

| Tgt Ion                                              | 117 | Resp  | 46672  |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 117                                                  | 100 |       |        |
| 119                                                  | 6.2 | 73.3  | 109.9# |
| 121                                                  | 0.0 | 25.0  | 37.4#  |





#50

Toluene-d8

Concen: 51.417 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

Instrument :

MSVOA\_D

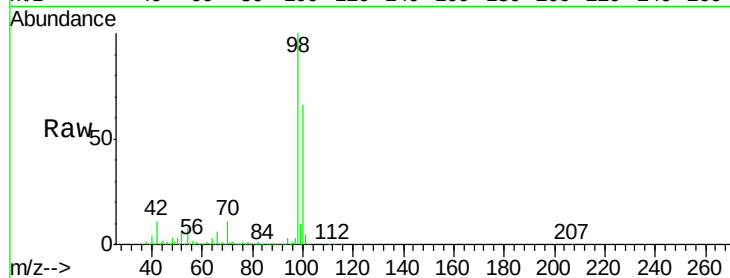
ClientSampleId :

Tot Ion: 98 Resp: 1051454

Ion Ratio Lower Upper

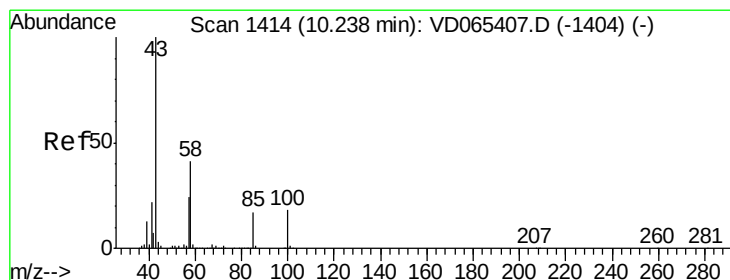
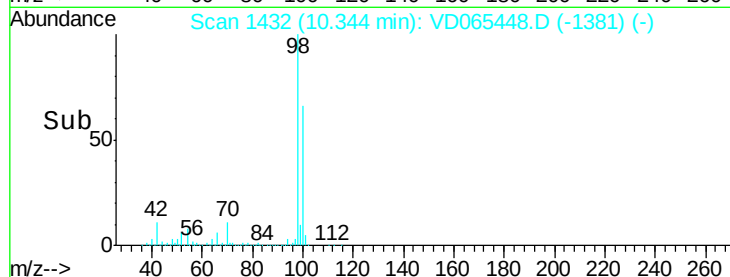
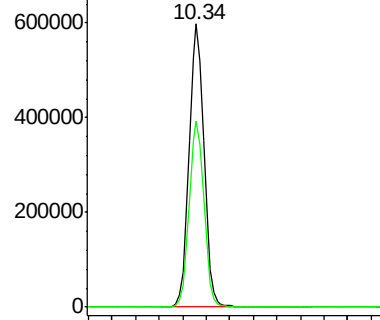
98 100

100 65.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.469 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.10 min

Lab File: VD065448.D

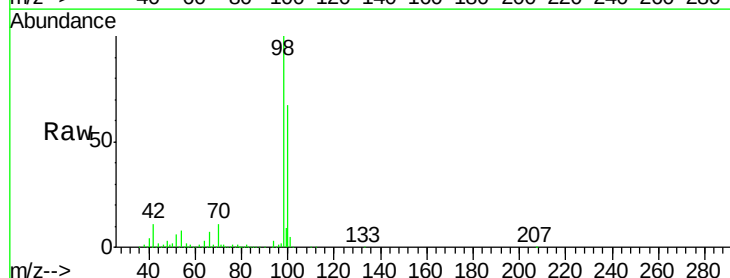
Acq: 09 Mar 2020 14:25

Tgt Ion: 43 Resp: 4359

Ion Ratio Lower Upper

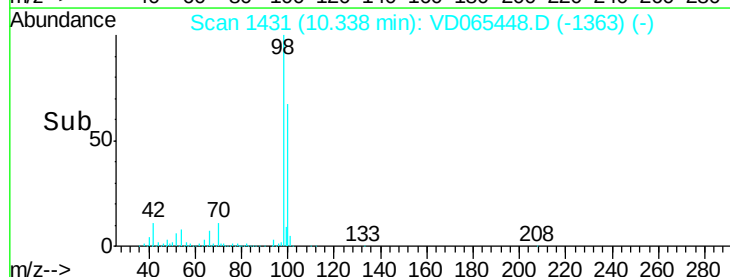
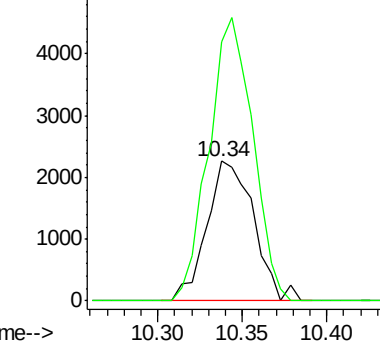
43 100

58 190.5 31.8 47.6#

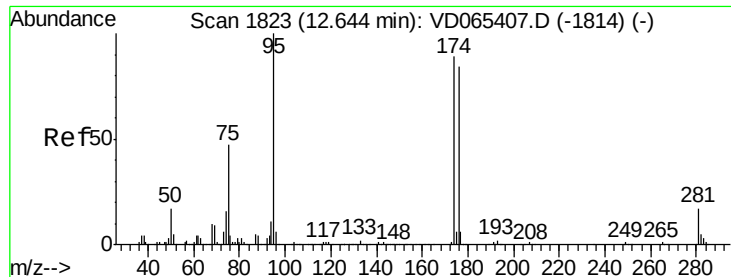


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC







#62

4-Bromofluorobenzene

Concen: 50.049 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

Instrument :

MSVOA\_D

ClientSampled :

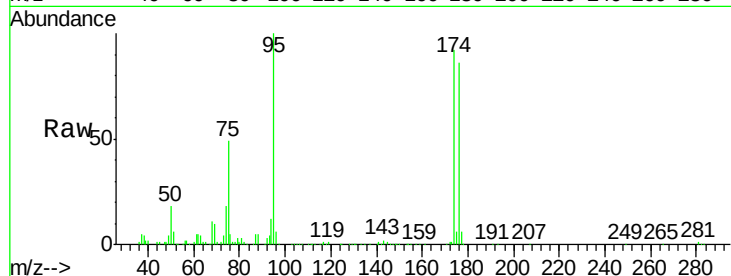
Tot Ion: 95 Resp: 315960

Ion Ratio Lower Upper

95 100

174 90.8 0.0 176.8

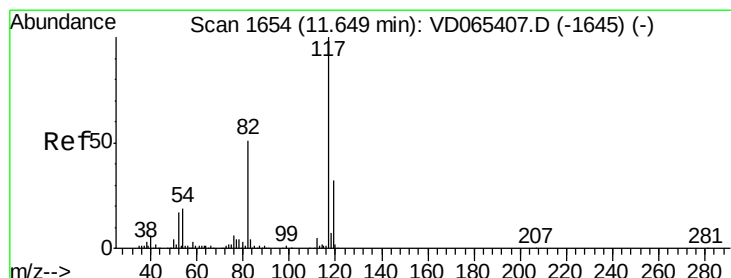
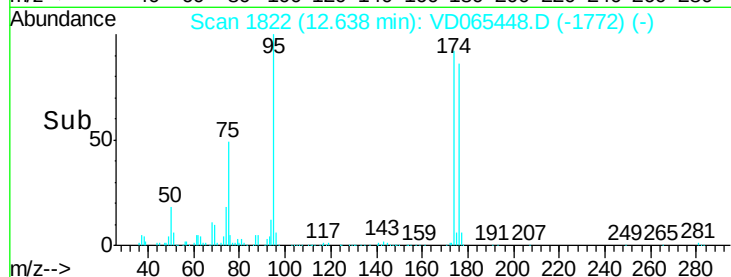
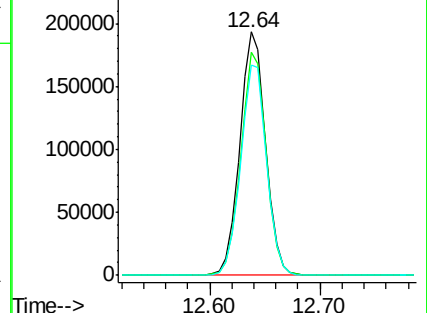
176 87.2 0.0 171.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

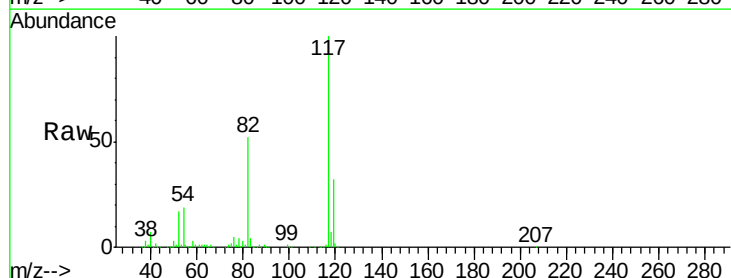
Tgt Ion: 117 Resp: 801026

Ion Ratio Lower Upper

117 100

82 51.8 40.6 60.8

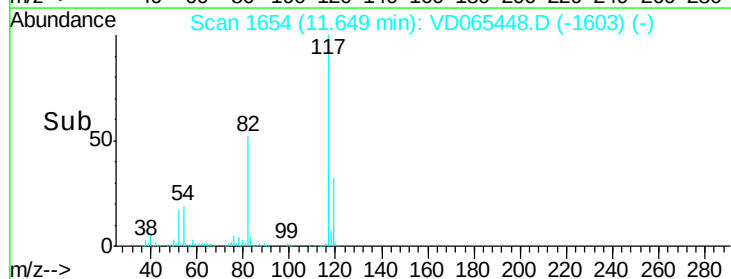
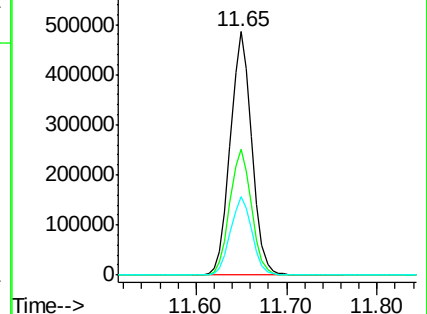
119 32.2 25.4 38.2

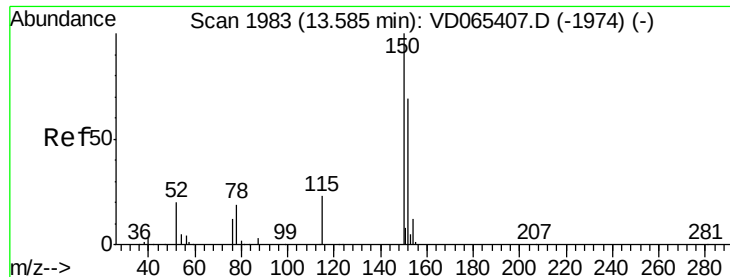


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



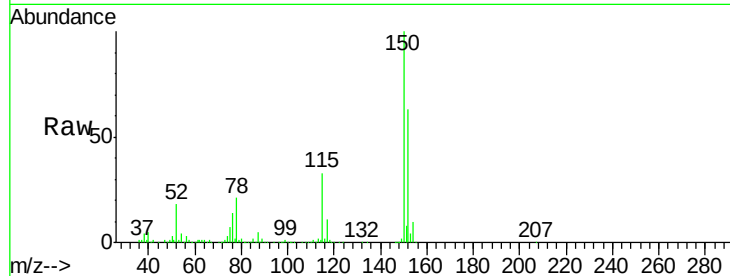


#72

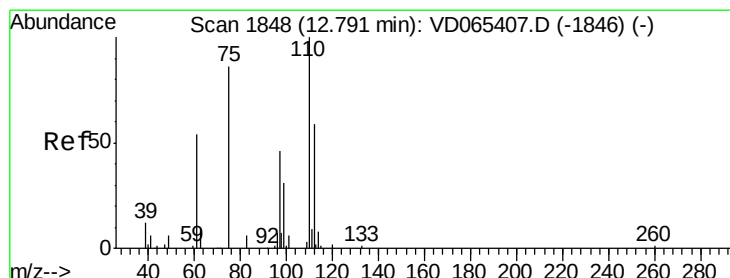
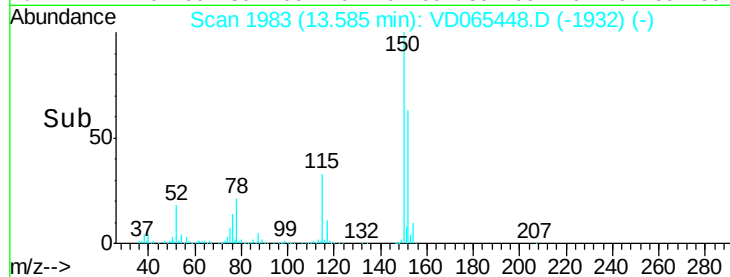
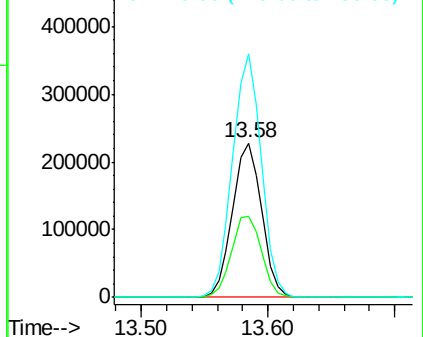
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD065448.D  
Acq: 09 Mar 2020 14:25

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.0  | 27.6  | 82.8  |
| 150     | 156.2 | 0.0   | 345.0 |



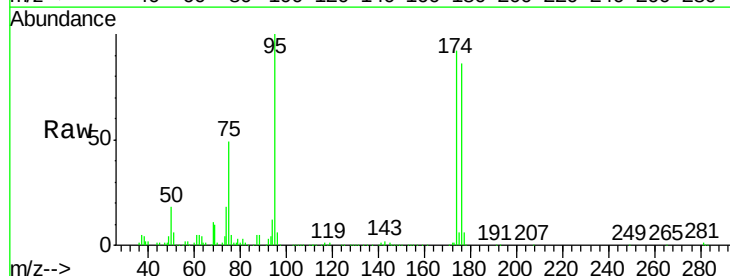
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



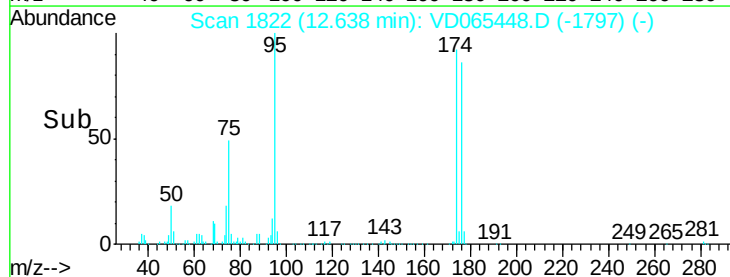
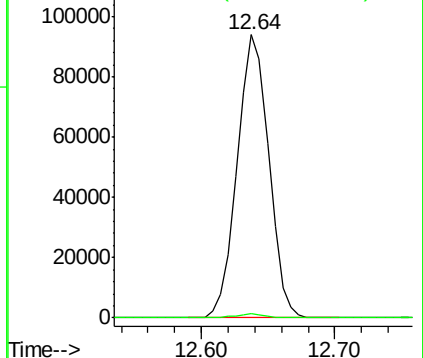
#76

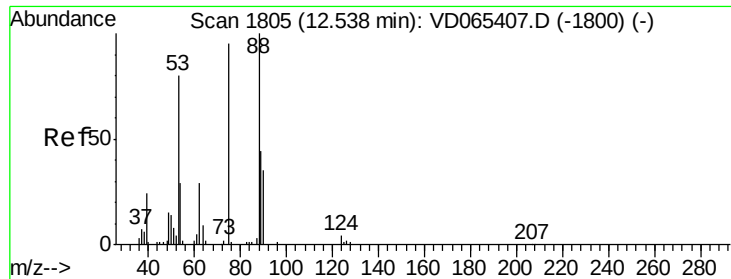
1,2,3-Trichloropropane  
Concen: 54.002 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD065448.D  
Acq: 09 Mar 2020 14:25

| Tgt 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: 113.959 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

Instrument :

MSVOA\_D

ClientSampleId :

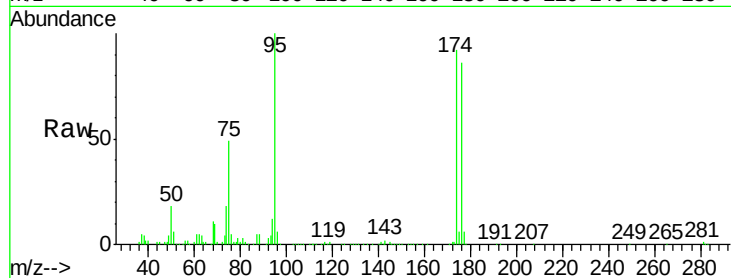
Tot Ion: 75 Resp: 154108

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

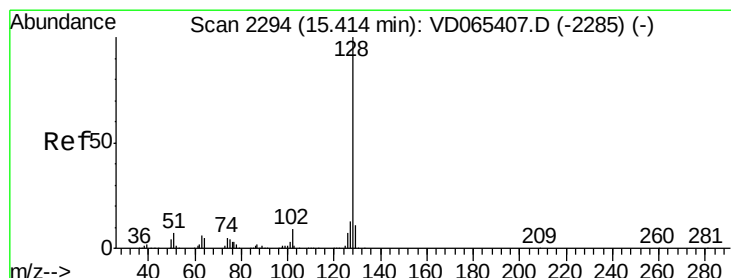
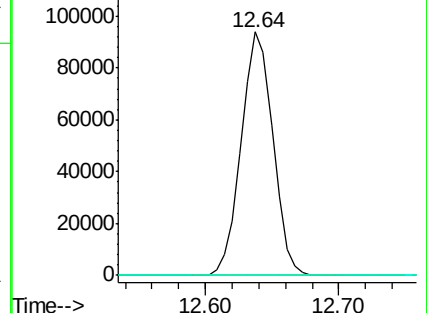
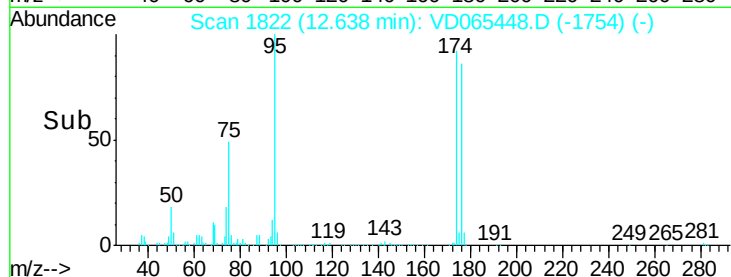
89 0.0 37.0 55.6#



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



#95

Naphthalene

Concen: 4.489 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD065448.D

Acq: 09 Mar 2020 14:25

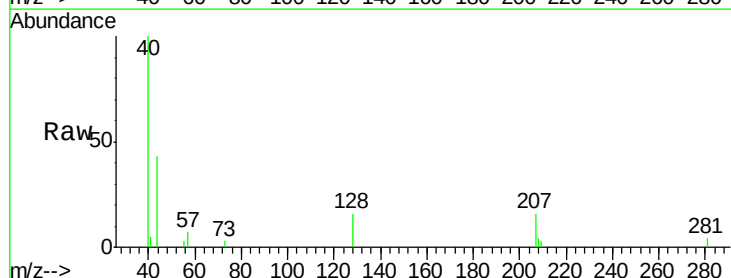
Tgt Ion:128 Resp: 1049

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

