

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020620\  
 Data File : VD065090.D  
 Acq On : 06 Feb 2020 16:51  
 Operator : VA/SY  
 Sample : L1393-02RE  
 Misc : 7.61G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 07 06:09:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 Response via : Initial Calibration

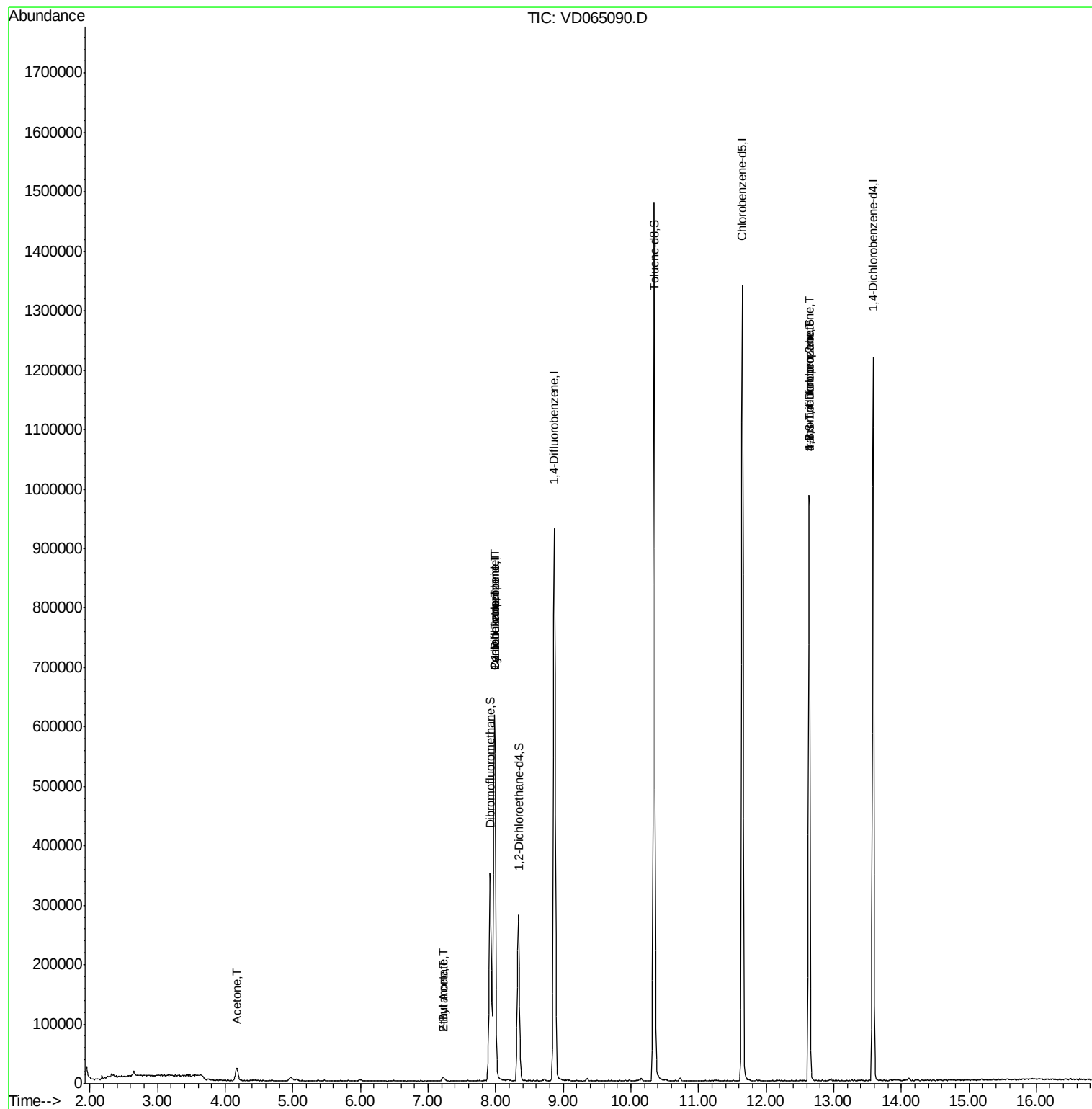
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 483032   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 802795   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 757880   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 315498   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 227489   | 55.41     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.82% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 245768   | 54.87     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.74% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 973085   | 54.58     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.16% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 312948   | 55.40     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.80% |          |
| Target Compounds               |       |      |          |           |         |          |
| 16) Acetone                    | 4.17  | 43   | 38813    | 37.814    | ug/l    | 94       |
| 20) Methylene Chloride         | 4.96  | 84   | 4938     | Below Cal | #       | 80       |
| 25) 2-Butanone                 | 7.23  | 43   | 8847     | 7.226     | ug/l    | 92       |
| 31) Cyclohexane                | 7.98  | 56   | 10837    | 1.327     | ug/l #  | 13       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 36789    | 4.928     | ug/l #  | 49       |
| 37) Ethyl Acetate              | 7.23  | 43   | 8847     | 2.901     | ug/l #  | 69       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 47175    | 6.188     | ug/l #  | 14       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 161952   | 67.801    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 161952   | 135.596   | ug/l #  | 10       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD020620\  
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Operator : VA/SY  
Sample : L1393-02RE  
Misc : 7.61G/5.00ml/MSVOA D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Feb 07 06:09:50 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 05 15:53:00 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: VD065090.D

Acq: 06 Feb 2020 16:51

Instrument :

MSVOA\_D

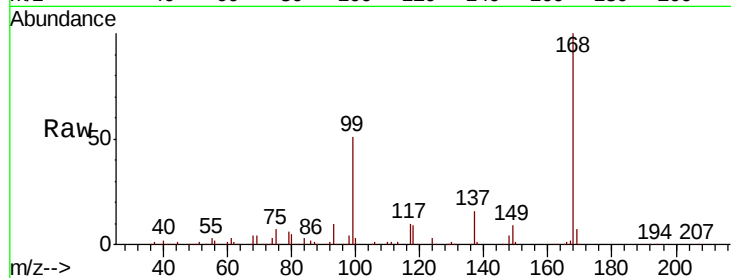
ClientSampleId :

Tot Ion:168 Resp: 483032

Ion Ratio Lower Upper

168 100

99 51.4 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

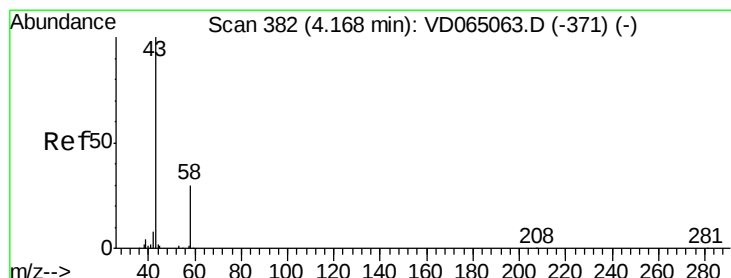
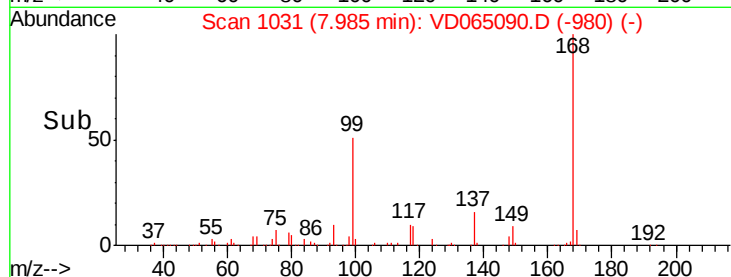
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 37.814 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD065090.D

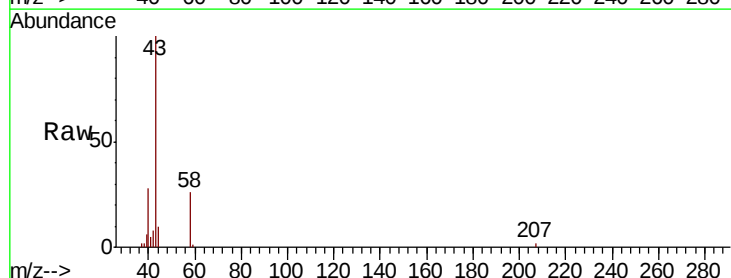
Acq: 06 Feb 2020 16:51

Tgt Ion: 43 Resp: 38813

Ion Ratio Lower Upper

43 100

58 25.9 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

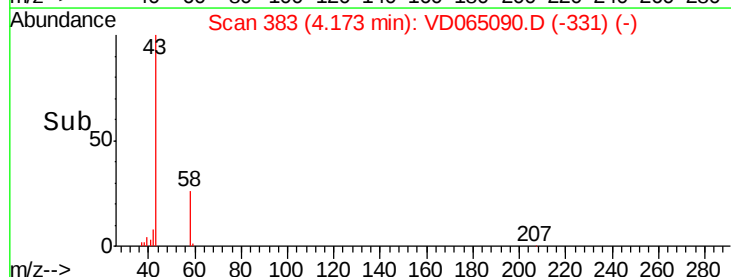
15000

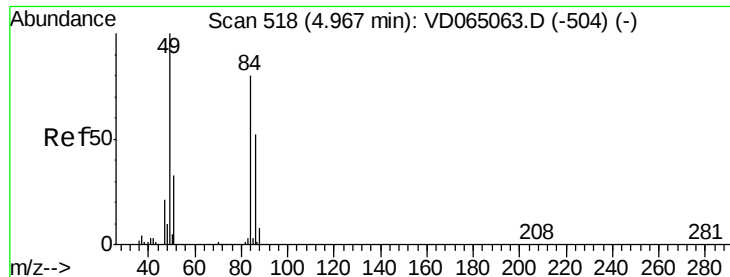
10000

5000

0

Time-->

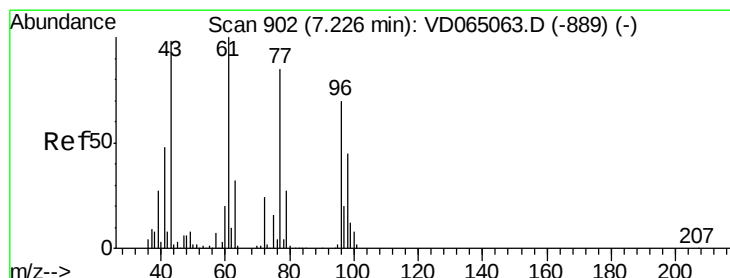
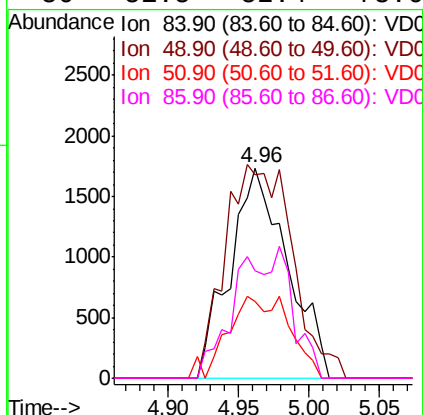
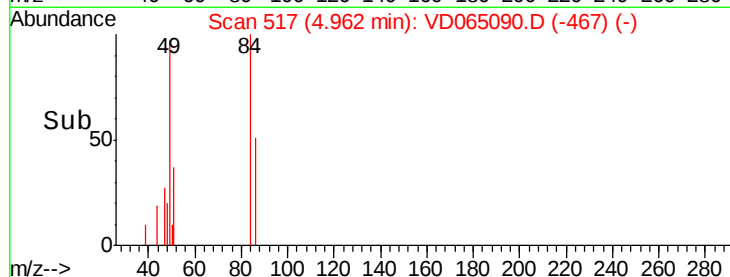
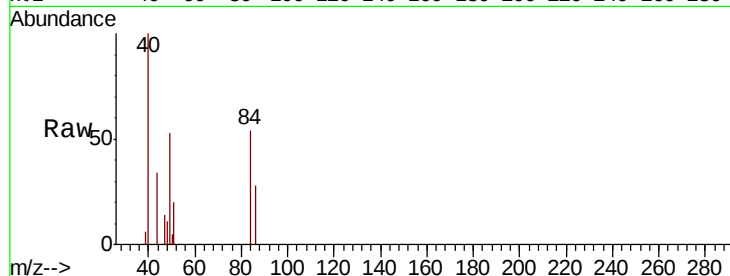




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD065090.D  
Acq: 06 Feb 2020 16:51

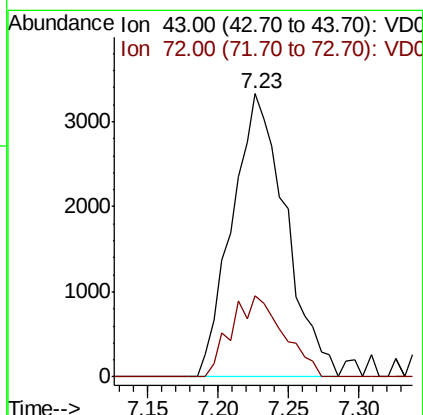
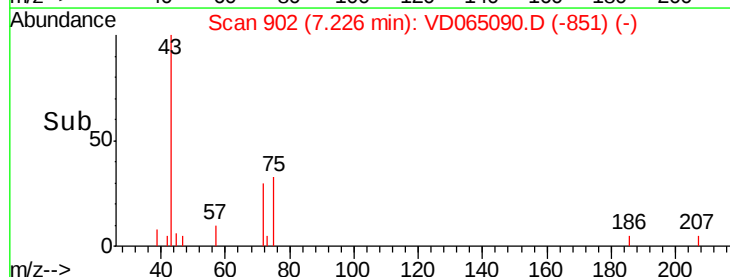
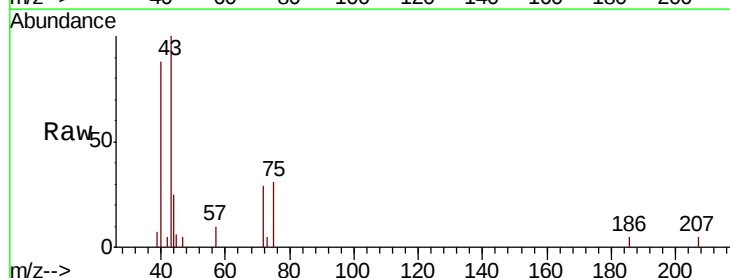
Instrument :  
MSVOA\_D  
ClientSampleId :

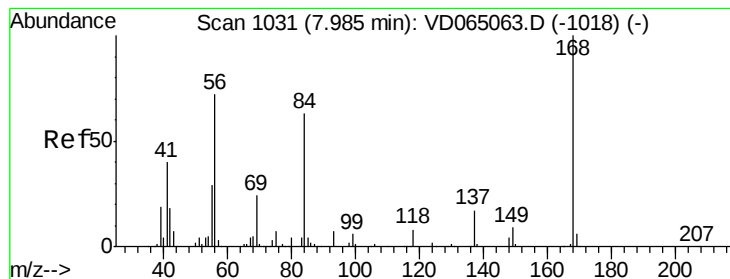
Tot Ion: 84 Resp: 4938  
Ion Ratio Lower Upper  
84 100  
49 97.0 100.4 150.6#  
51 36.5 32.7 49.1  
86 51.5 52.4 78.6#



#25  
2-Butanone  
Concen: 7.226 ug/l  
RT: 7.23 min Scan# 902  
Delta R.T. -0.00 min  
Lab File: VD065090.D  
Acq: 06 Feb 2020 16:51

Tgt Ion: 43 Resp: 8847  
Ion Ratio Lower Upper  
43 100  
72 28.9 19.9 29.9





#31

Cyclohexane

Concen: 1.327 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065090.D

Acq: 06 Feb 2020 16:51

Instrument :

MSVOA\_D

ClientSampleId :

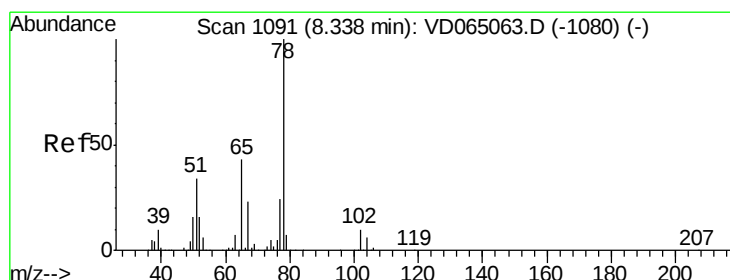
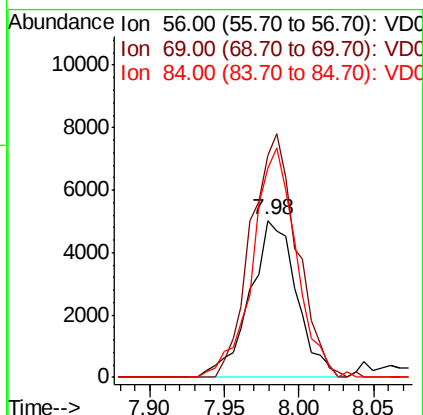
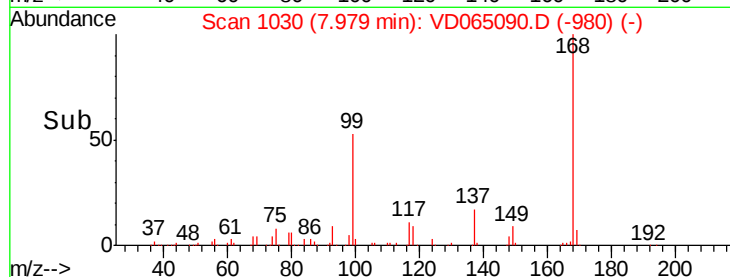
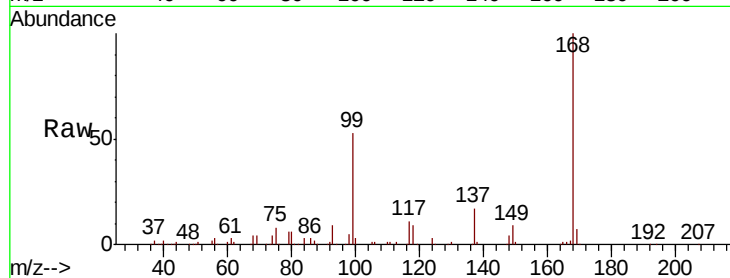
Tot Ion: 56 Resp: 10837

Ion Ratio Lower Upper

56 100

69 141.5 26.6 40.0#

84 133.1 70.6 106.0#



#33

1,2-Dichloroethane-d4

Concen: 55.413 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065090.D

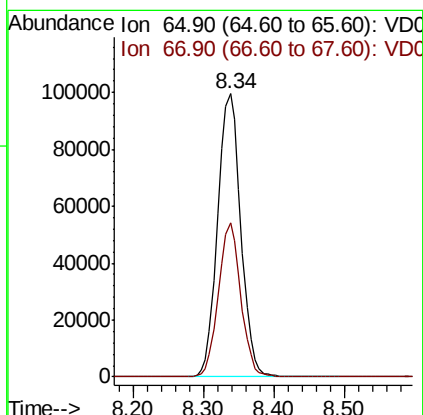
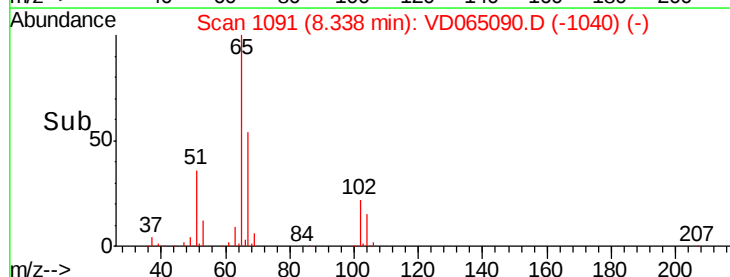
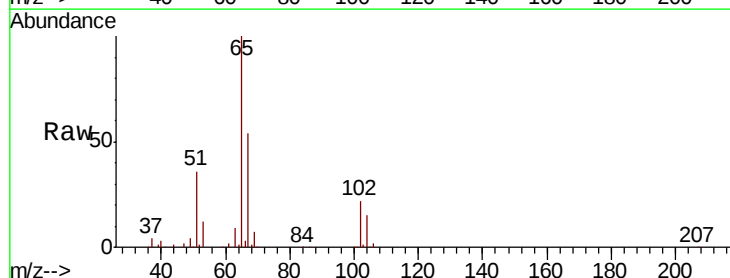
Acq: 06 Feb 2020 16:51

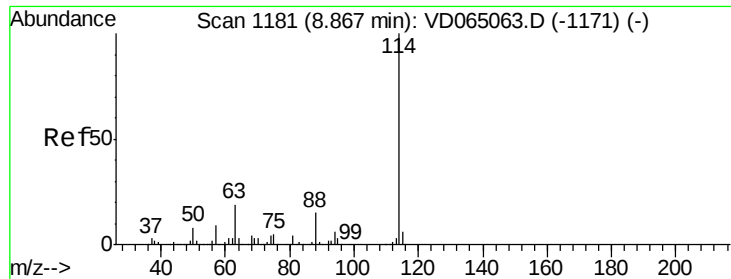
Tgt Ion: 65 Resp: 227489

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.8

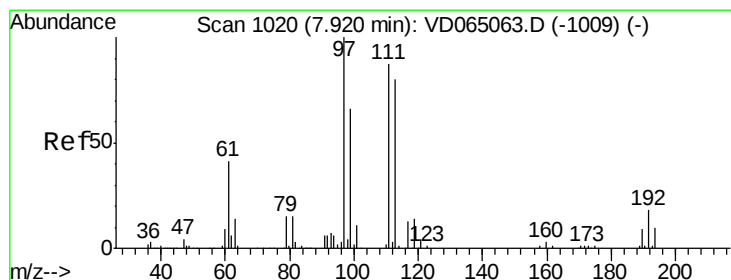
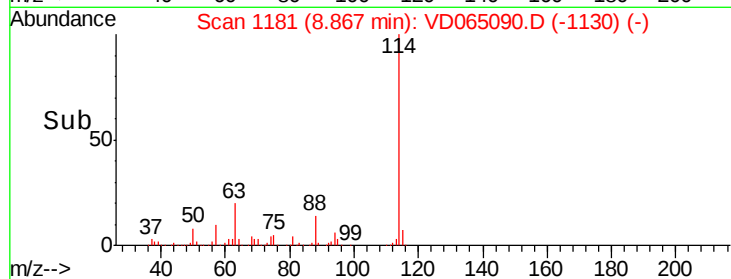
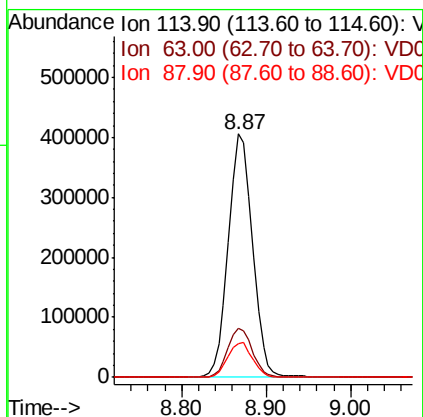
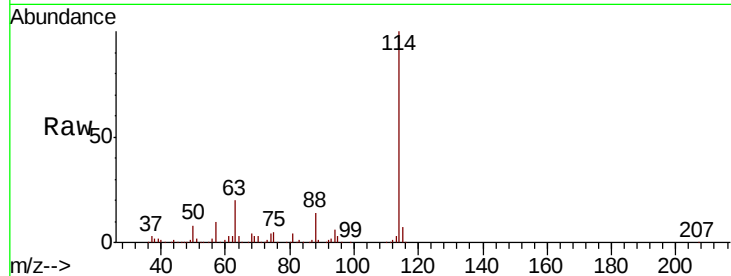




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065090.D  
 Acq: 06 Feb 2020 16:51

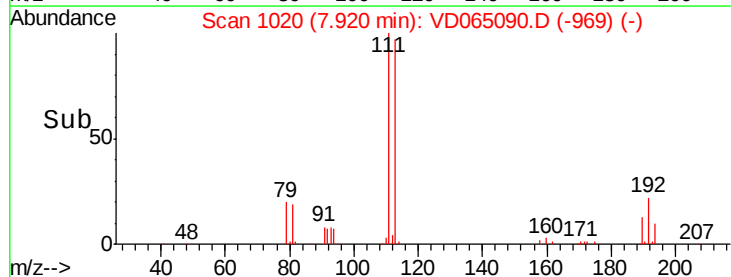
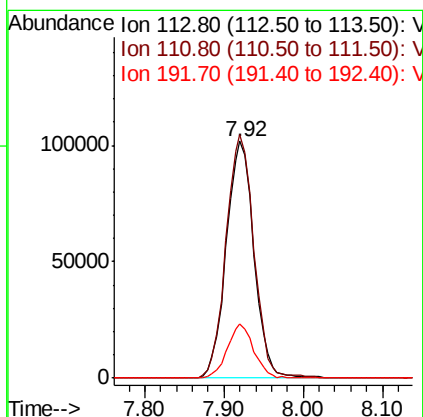
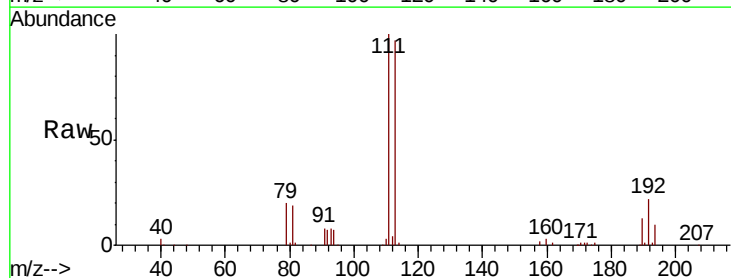
Instrument :  
 MSVOA\_D  
 ClientSampleId :

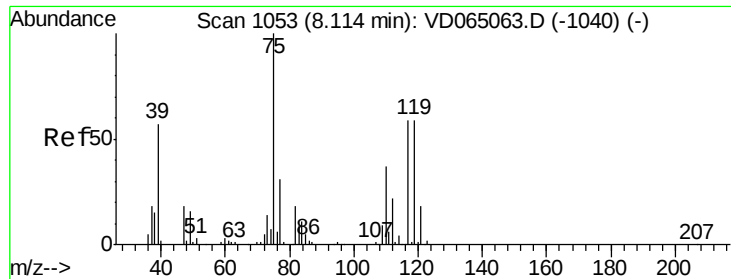
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.0  | 0.0   | 38.8  |
| 88      | 14.0  | 0.0   | 29.6  |



#35  
 Dibromofluoromethane  
 Concen: 54.870 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065090.D  
 Acq: 06 Feb 2020 16:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 83.1  | 124.7 |
| 192     | 21.7  | 18.1  | 27.1  |

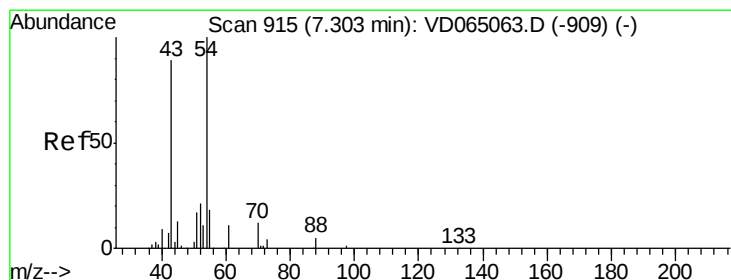
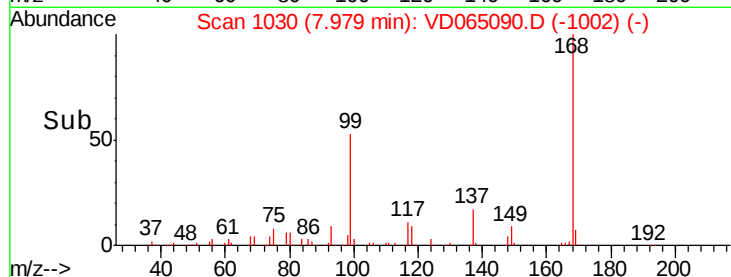
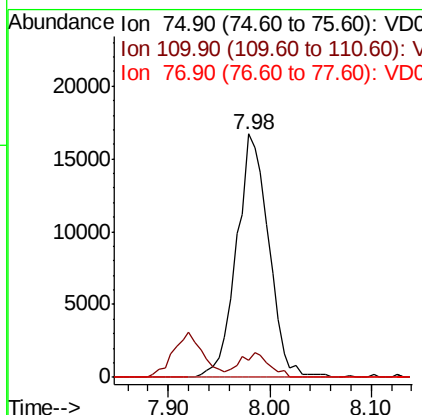
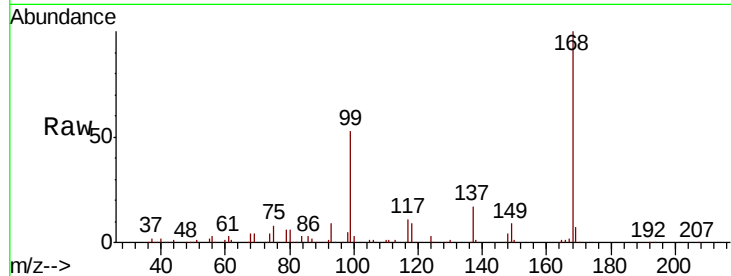




#36  
 1,1-Dichloropropene  
 Concen: 4.928 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD065090.D  
 Acq: 06 Feb 2020 16:51

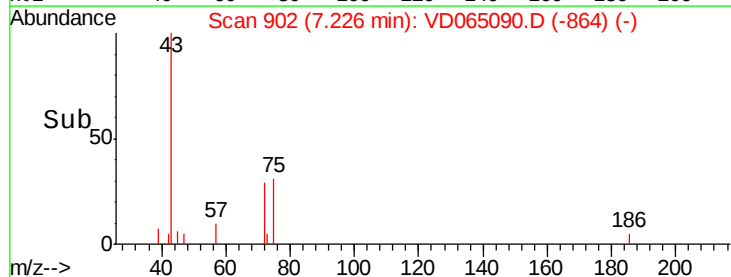
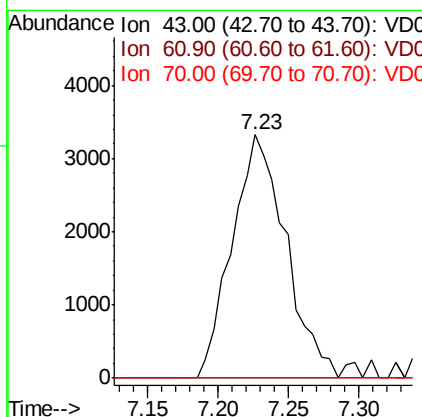
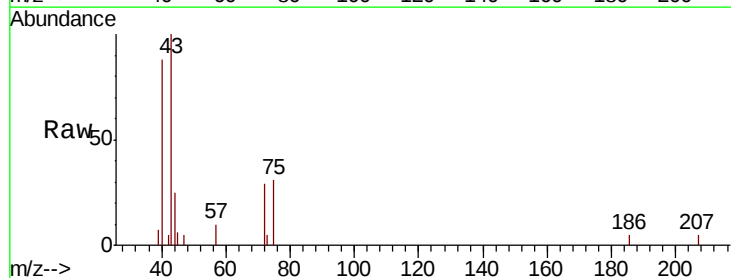
Instrument :  
 MSVOA\_D  
 ClientSampleId :

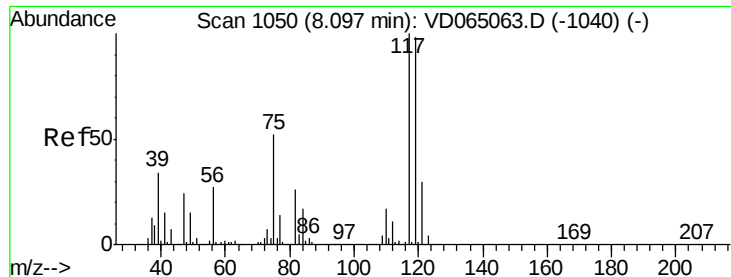
Tot Ion: 75 Resp: 36789  
 Ion Ratio Lower Upper  
 75 100  
 110 9.3 18.1 54.3#  
 77 0.0 24.7 37.1#



#37  
 Ethyl Acetate  
 Concen: 2.901 ug/l  
 RT: 7.23 min Scan# 902  
 Delta R.T. -0.08 min  
 Lab File: VD065090.D  
 Acq: 06 Feb 2020 16:51

Tgt Ion: 43 Resp: 8847  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 11.0 16.4#  
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: 6.188 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065090.D

Acq: 06 Feb 2020 16:51

Instrument :

MSVOA\_D

ClientSampleId :

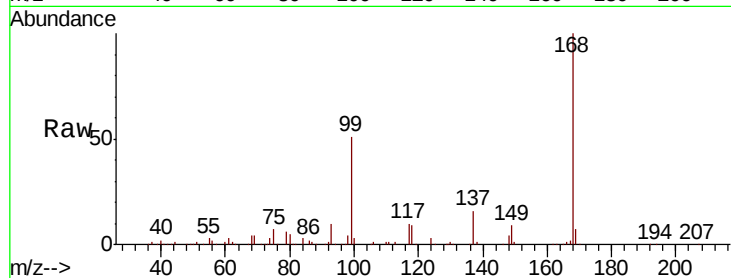
Tot Ion:117 Resp: 47175

Ion Ratio Lower Upper

117 100

119 4.3 78.5 117.7#

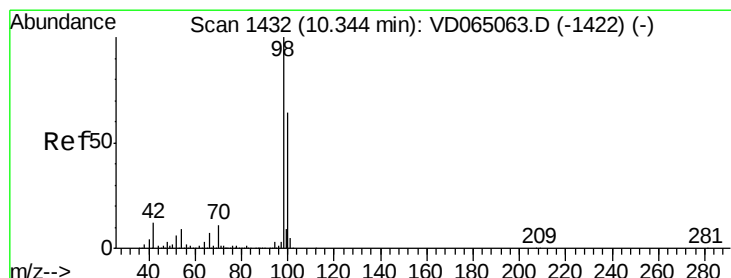
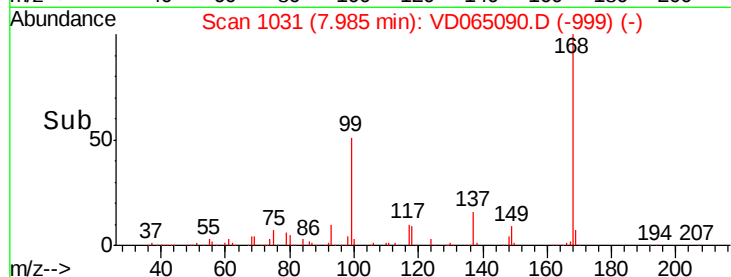
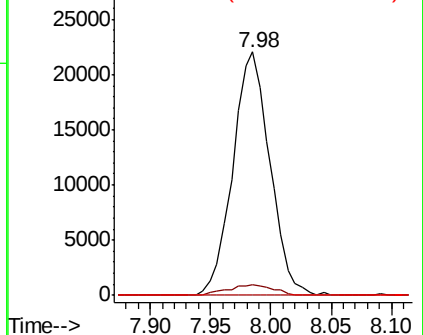
121 0.0 23.8 35.6#



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: 54.581 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065090.D

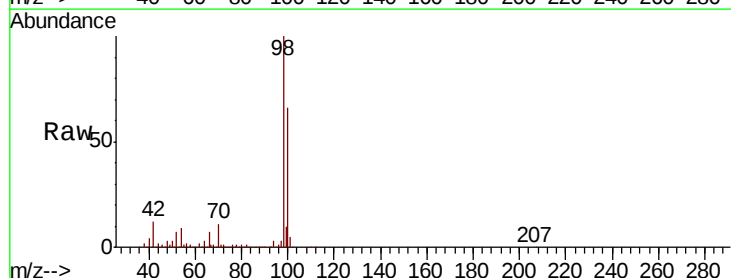
Acq: 06 Feb 2020 16:51

Tgt Ion: 98 Resp: 973085

Ion Ratio Lower Upper

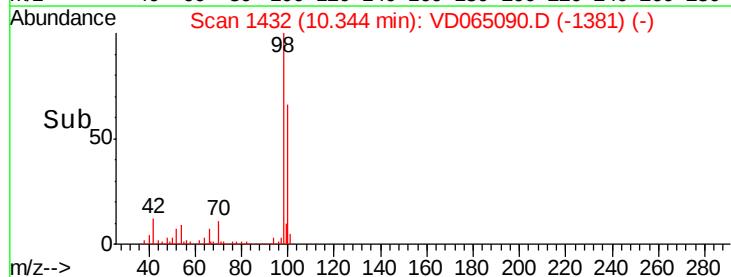
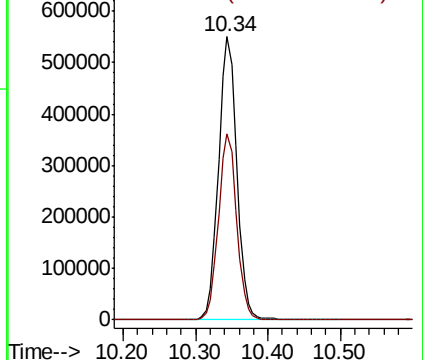
98 100

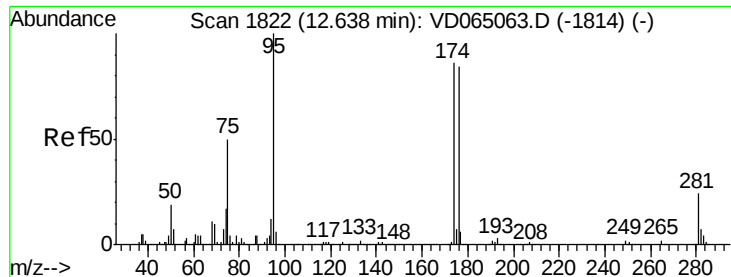
100 65.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 55.398 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065090.D

Acq: 06 Feb 2020 16:51

Instrument :

MSVOA\_D

ClientSampled :

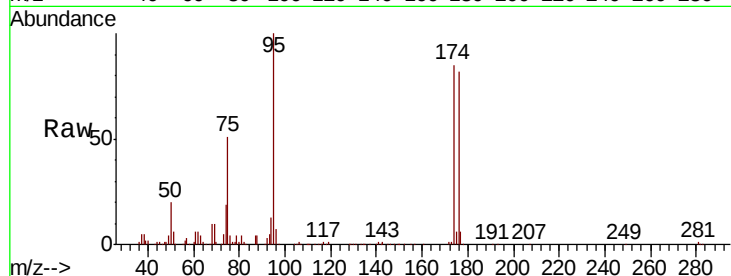
Tot Ion: 95 Resp: 312948

Ion Ratio Lower Upper

95 100

174 89.3 0.0 180.0

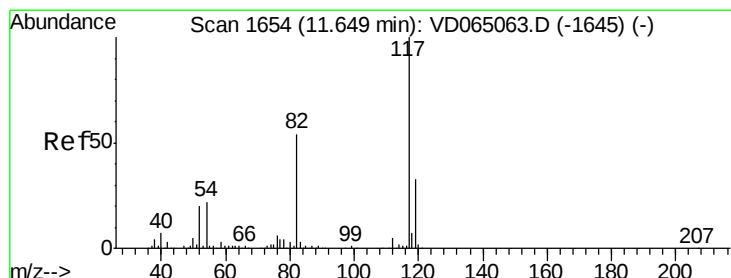
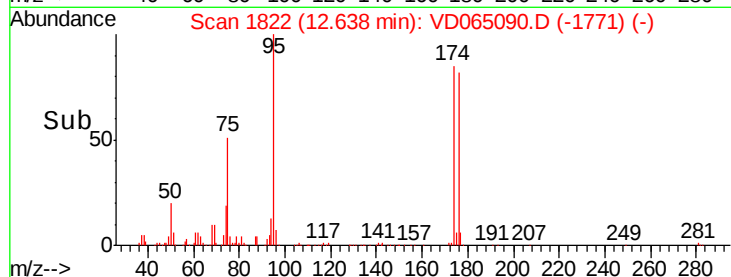
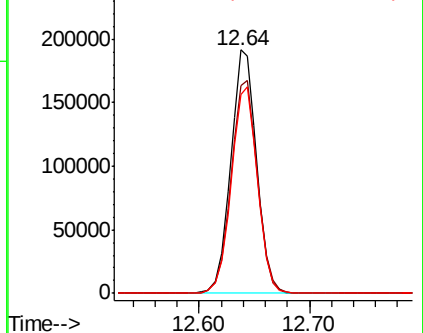
176 86.1 0.0 173.2



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: VD065090.D

Acq: 06 Feb 2020 16:51

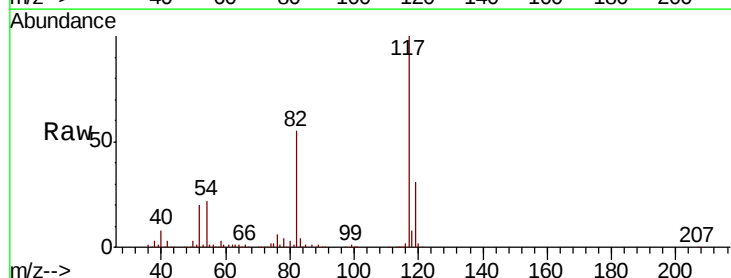
Tgt Ion: 117 Resp: 757880

Ion Ratio Lower Upper

117 100

82 55.4 43.1 64.7

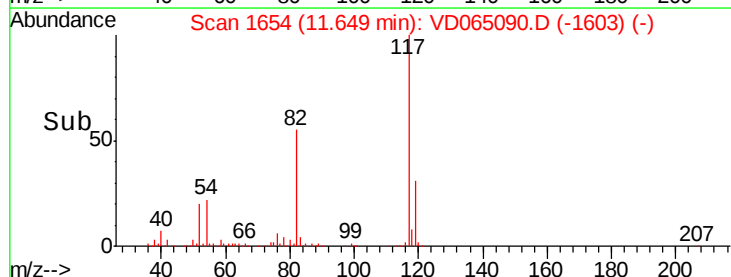
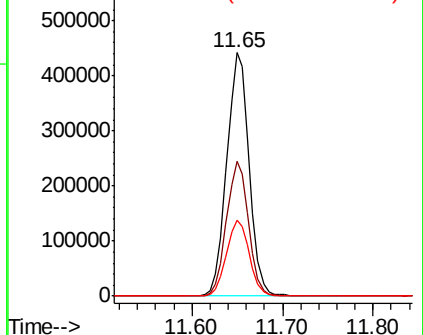
119 31.4 26.0 39.0

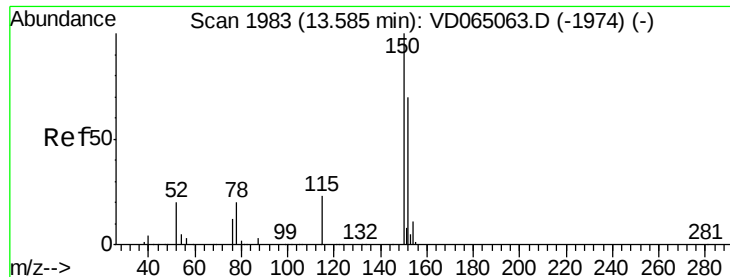


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



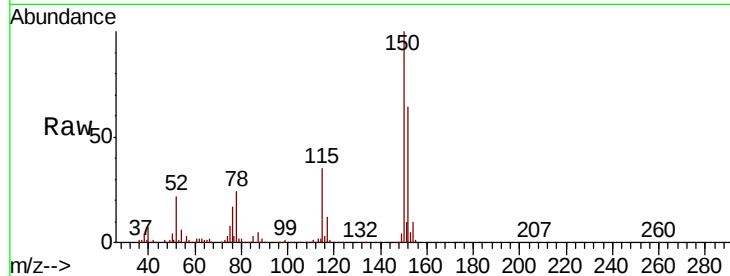


#72

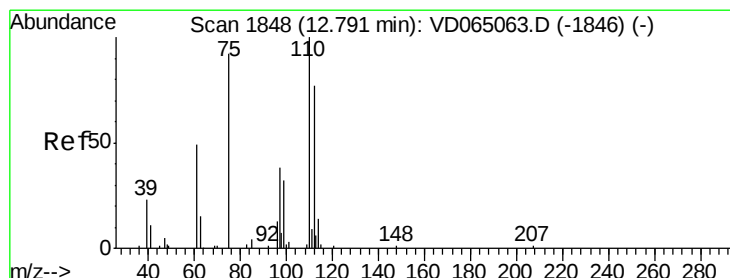
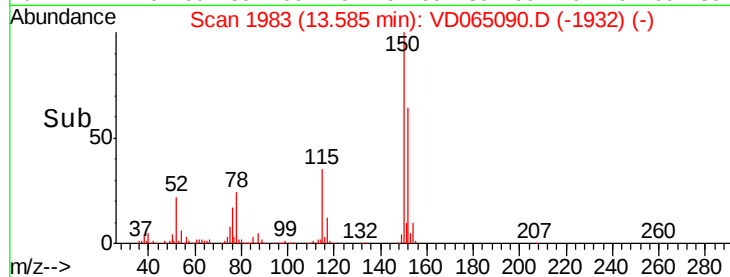
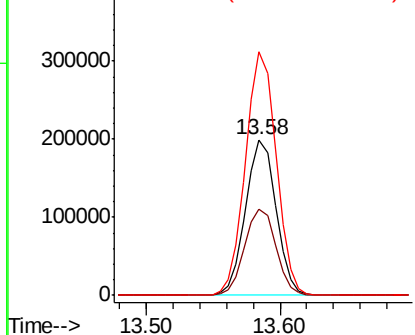
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD065090.D  
Acq: 06 Feb 2020 16:51

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.6  | 27.5  | 82.4  |
| 150     | 157.6 | 0.0   | 343.2 |



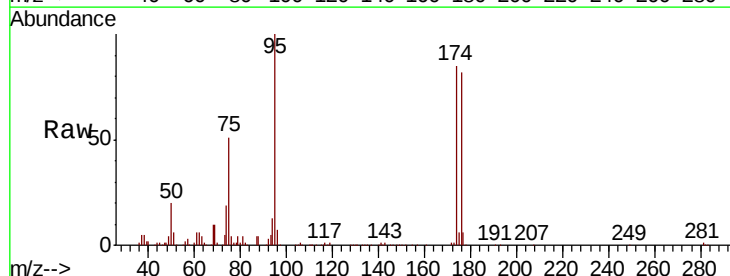
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



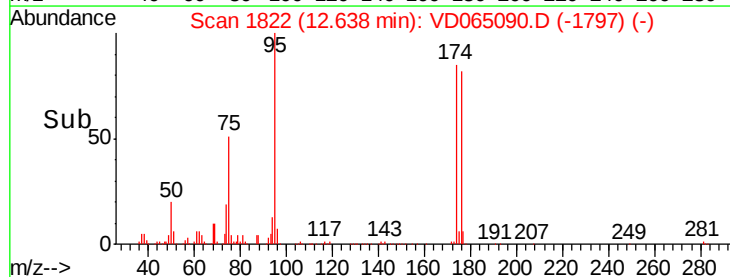
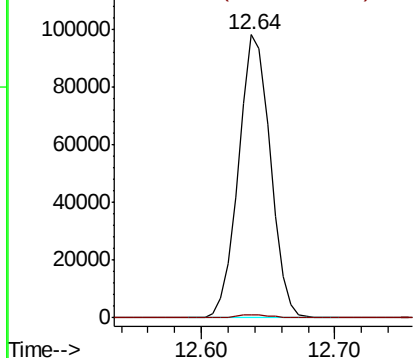
#76

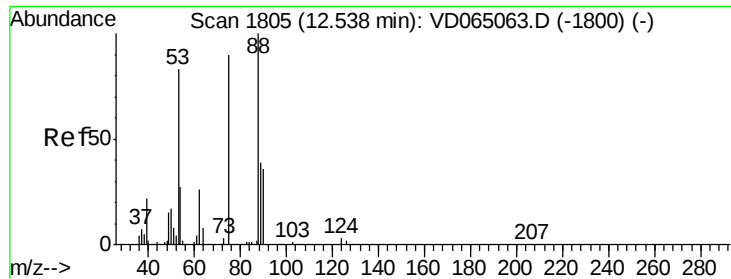
1,2,3-Trichloropropane  
Concen: 67.801 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD065090.D  
Acq: 06 Feb 2020 16:51

| 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: 135.596 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065090.D

Acq: 06 Feb 2020 16:51

Instrument :

MSVOA\_D

ClientSampleId :

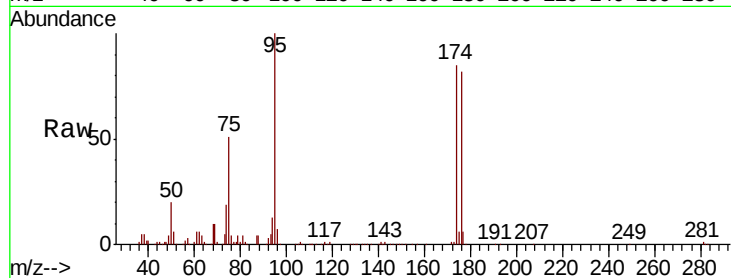
Tot Ion: 75 Resp: 161952

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.0 55.4#



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

