

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD012920\  
 Data File : VD064993.D  
 Acq On : 29 Jan 2020 13:25  
 Operator : VA/SY  
 Sample : L1289-17RE  
 Misc : 8.82G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-32-33RE

Quant Time: Jan 29 15:37:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 226818   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 368956   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.66 | 117  | 383576   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 186668   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 147666   | 67.87 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 135.74% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 130397   | 56.24 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 112.48% |          |
| 50) Toluene-d8              | 10.34 | 98   | 451508   | 50.45 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.90% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 161790   | 59.08 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 118.16% |          |

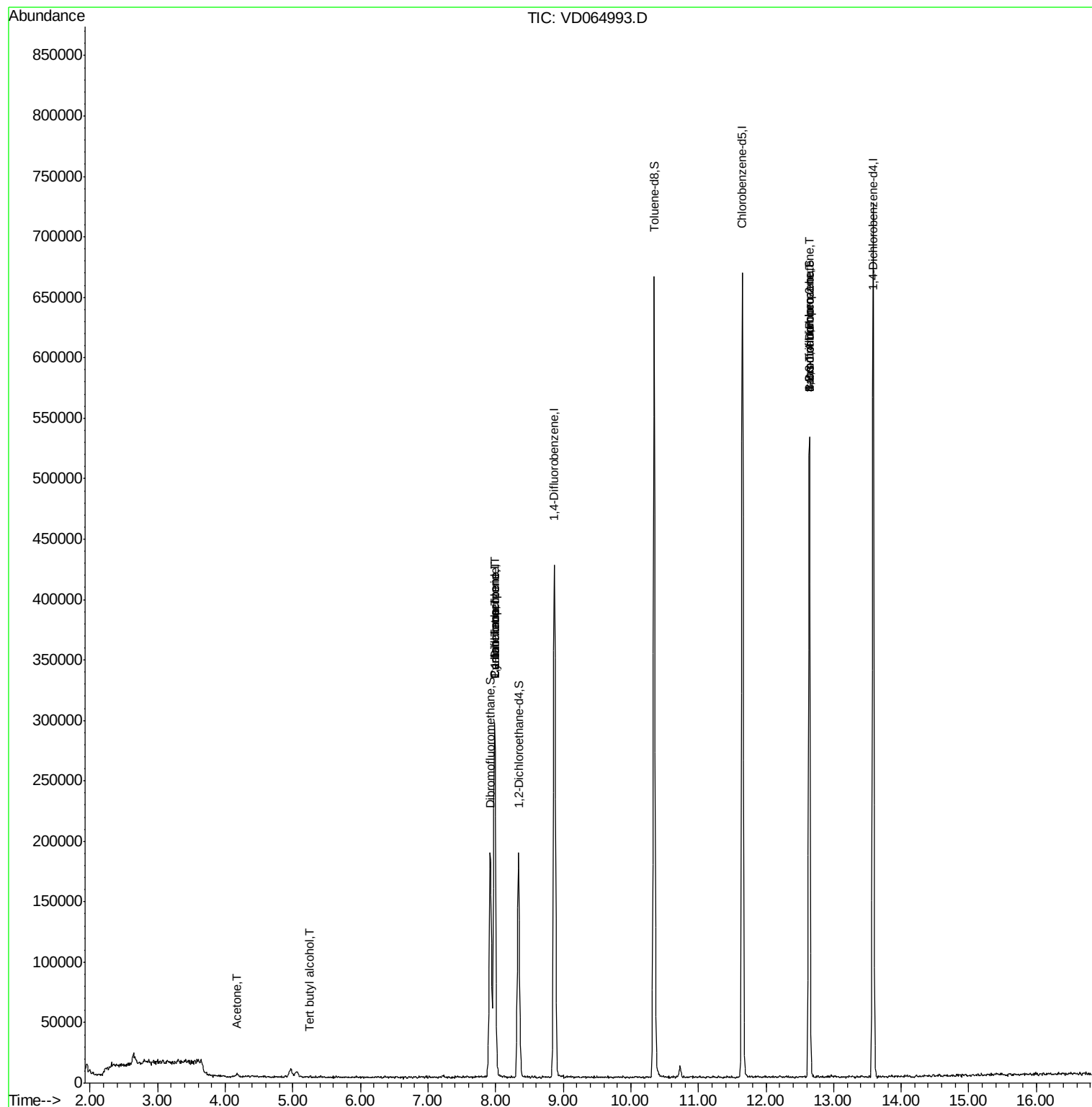
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.25  | 59   | 130      | 1.08      | ug/l # | 74     |
| 16) Acetone                    | 4.17  | 43   | 3897     | 19.88     | ug/l # | 89     |
| 20) Methylene Chloride         | 4.96  | 84   | 5393     | Below Cal | #      | 83     |
| 31) Cyclohexane                | 7.98  | 56   | 5315     | 1.40      | ug/l # | 31     |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 16850    | 4.74      | ug/l # | 44     |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 21017    | 5.59      | ug/l # | 18     |
| 71) Bromoform                  | 12.64 | 173  | 1851     | 1.14      | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 87483    | 56.46     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 87483    | 120.56    | ug/l # | 9      |

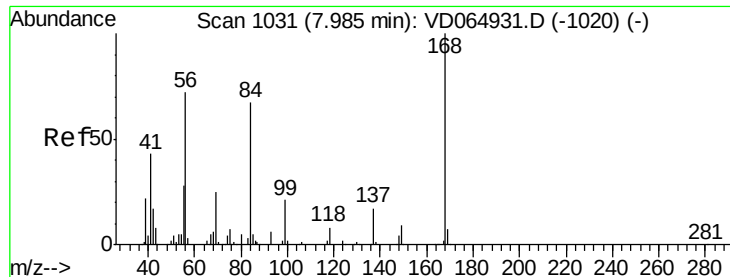
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Jan 23 13:45:59 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

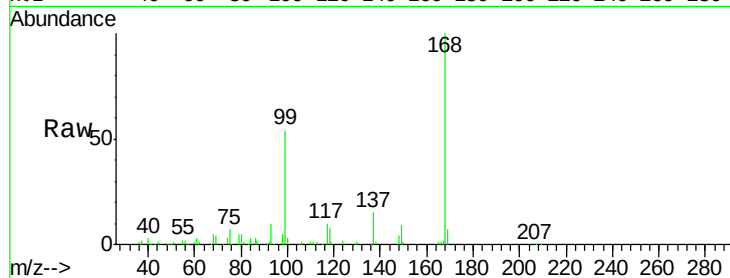
TP-32-33RE

Tgt Ion:168 Resp: 226818

Ion Ratio Lower Upper

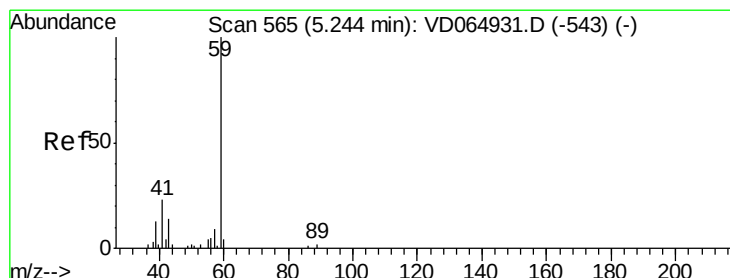
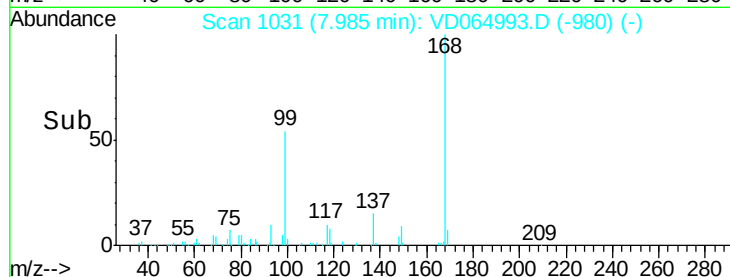
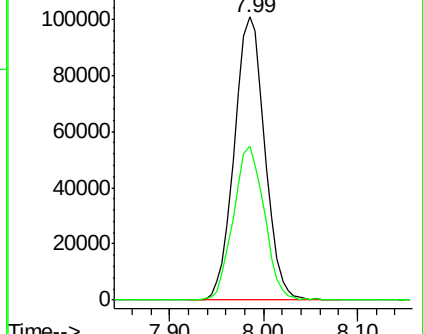
168 100

99 54.4 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 1.08 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.01 min

Lab File: VD064993.D

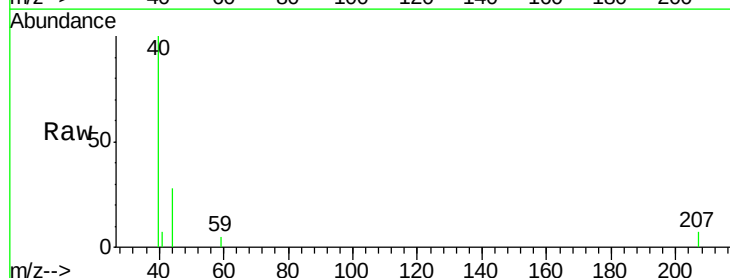
Acq: 29 Jan 2020 13:25

Tgt Ion: 59 Resp: 130

Ion Ratio Lower Upper

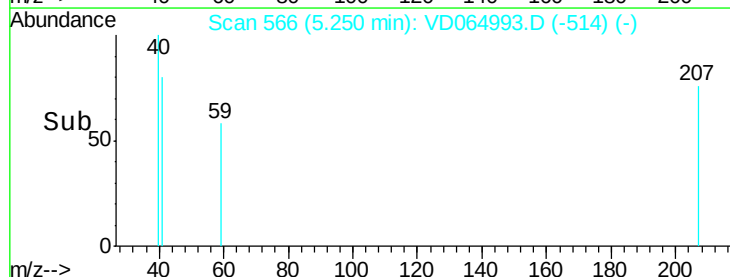
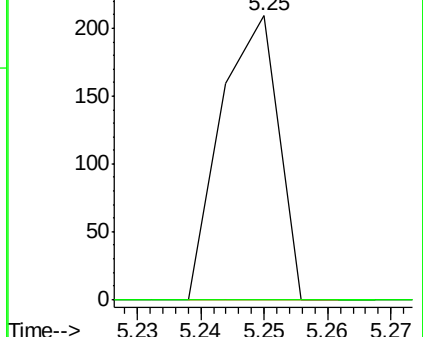
59 100

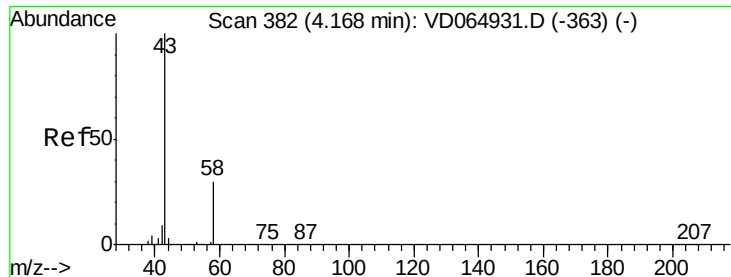
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 19.88 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

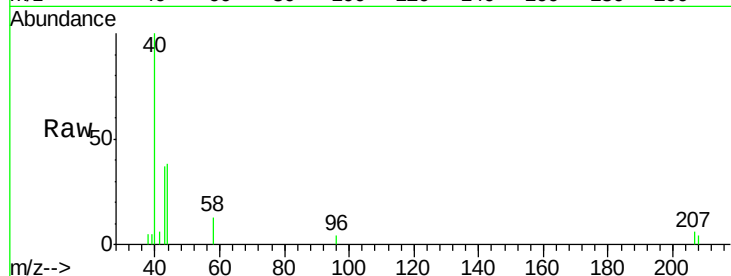
TP-32-33RE

Tgt Ion: 43 Resp: 3897

Ion Ratio Lower Upper

43 100

58 36.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

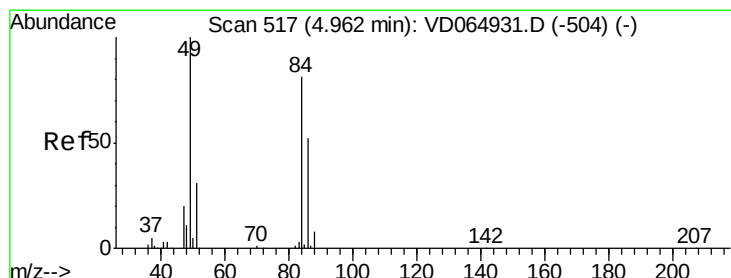
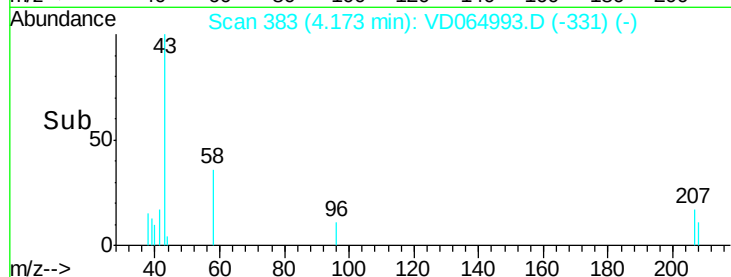
1500

1000

500

0

Time--> 4.10 4.15 4.20 4.25



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

Tgt Ion: 84 Resp: 5393

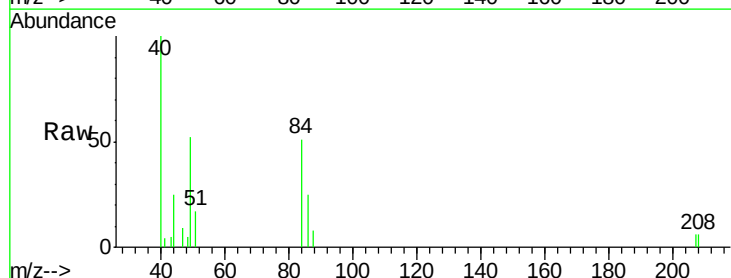
Ion Ratio Lower Upper

84 100

49 101.3 98.4 147.6

51 33.7 30.8 46.2

86 48.3 51.0 76.6#



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

4.96

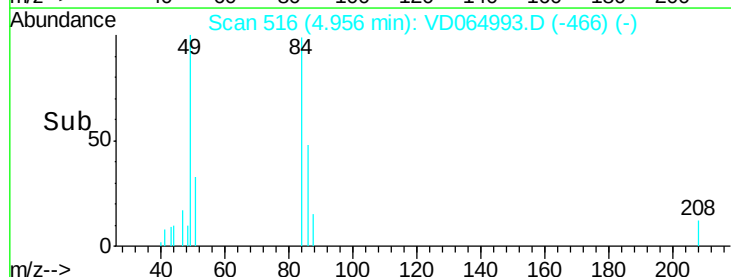
3000

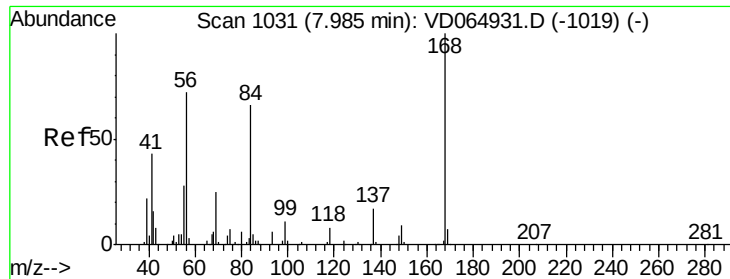
2000

1000

0

Time--> 4.85 4.90 4.95 5.00 5.05

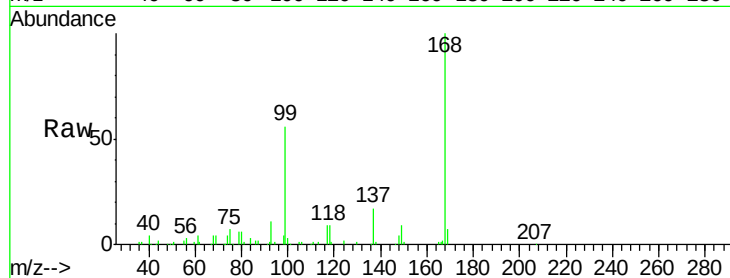




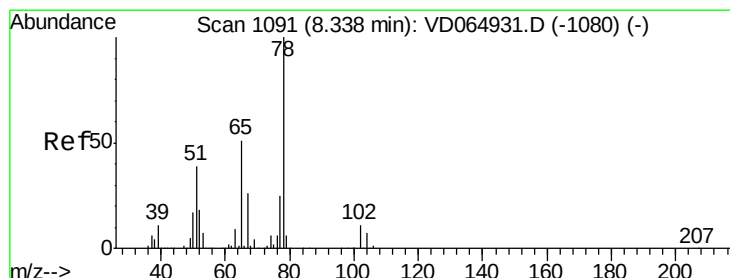
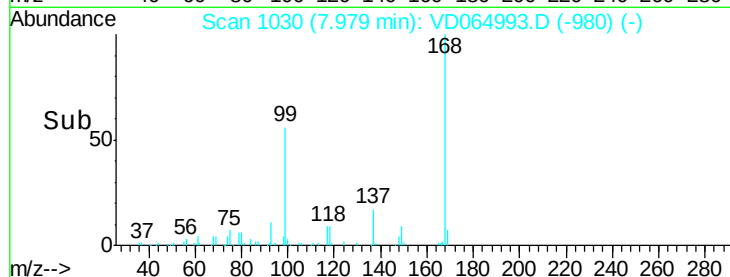
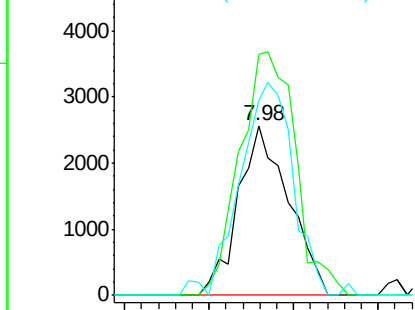
#31  
Cyclohexane  
Concen: 1.40 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD064993.D  
Acq: 29 Jan 2020 13:25

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-32-33RE

Tgt Ion: 56 Resp: 5315  
Ion Ratio Lower Upper  
56 100  
69 142.1 27.9 41.9#  
84 114.6 72.8 109.2#

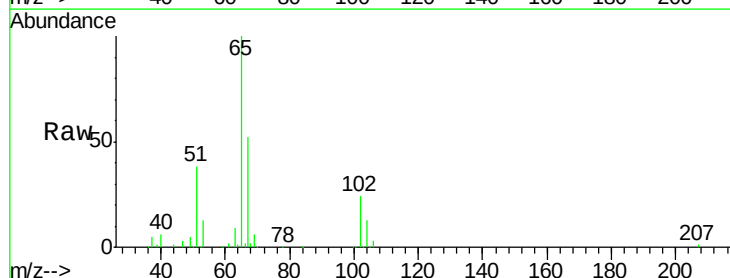


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

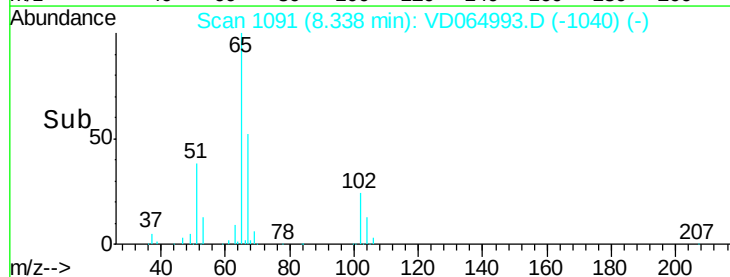
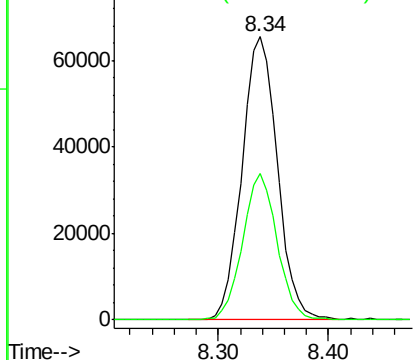


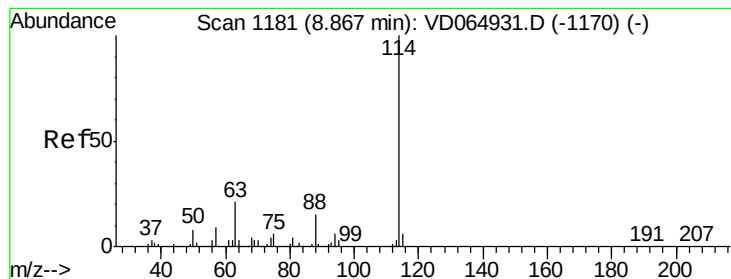
#33  
1,2-Dichloroethane-d4  
Concen: 67.87 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.00 min  
Lab File: VD064993.D  
Acq: 29 Jan 2020 13:25

Tgt Ion: 65 Resp: 147666  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 103.6



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

TP-32-33RE

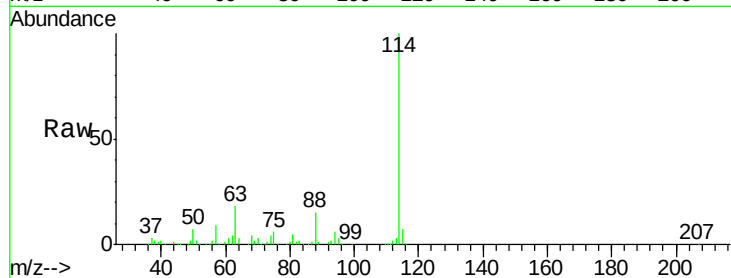
Tgt Ion:114 Resp: 368956

Ion Ratio Lower Upper

114 100

63 18.0 0.0 42.0

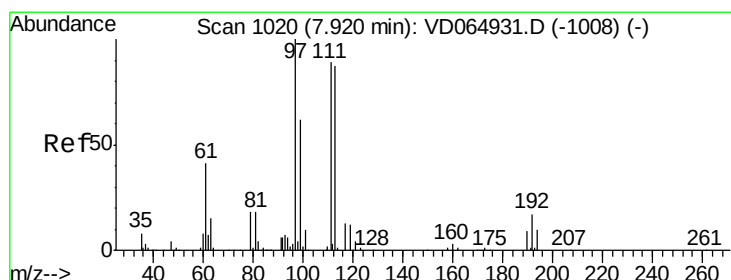
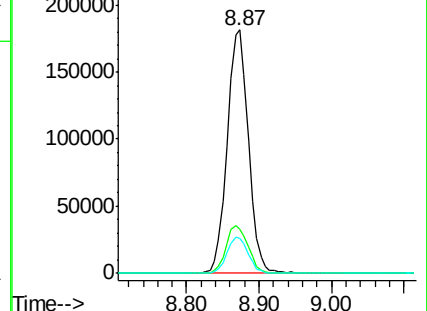
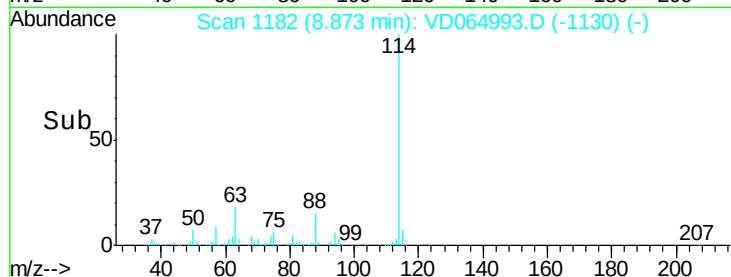
88 14.5 0.0 29.4



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: 56.24 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

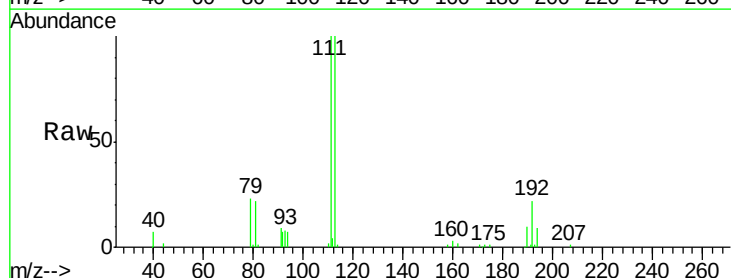
Tgt Ion:113 Resp: 130397

Ion Ratio Lower Upper

113 100

111 101.7 82.4 123.6

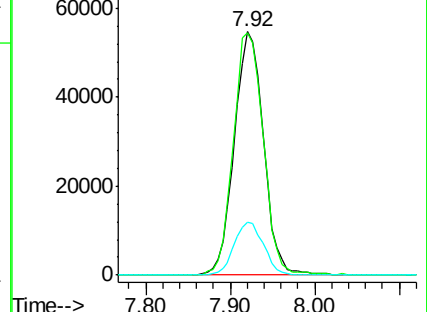
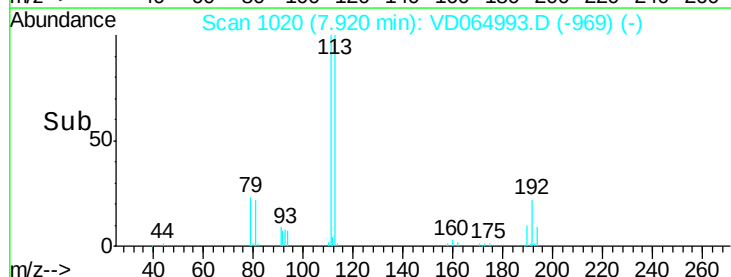
192 21.8 16.9 25.3

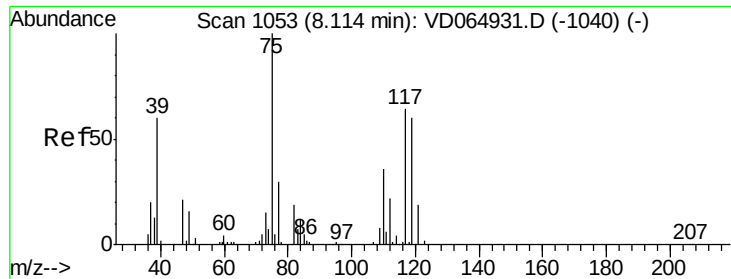


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

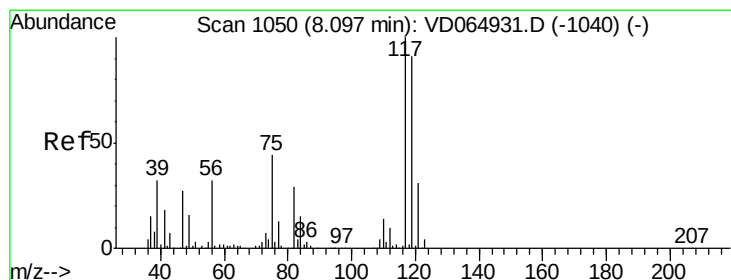
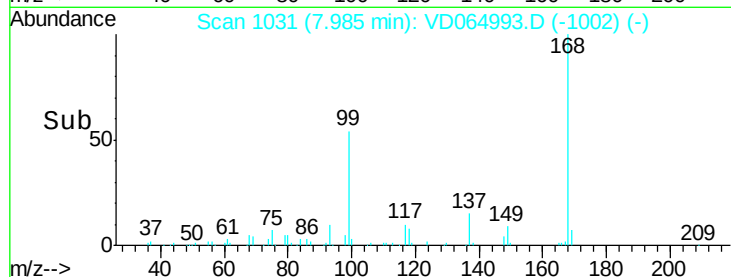
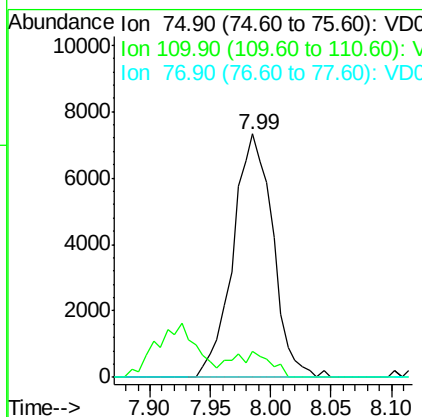
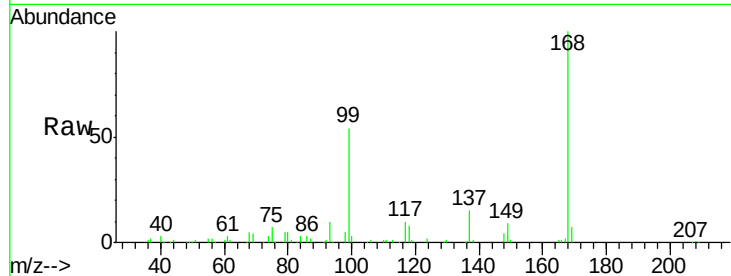




#36  
 1,1-Dichloropropene  
 Concen: 4.74 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064993.D  
 Acq: 29 Jan 2020 13:25

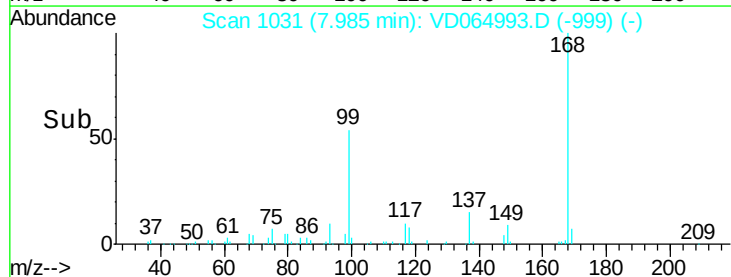
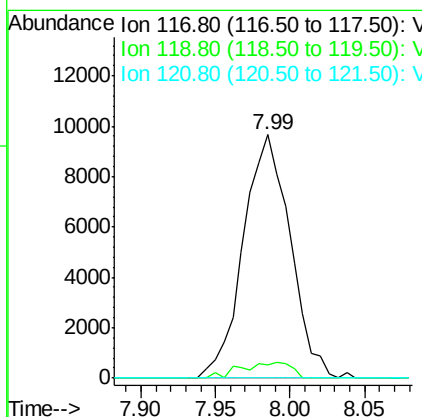
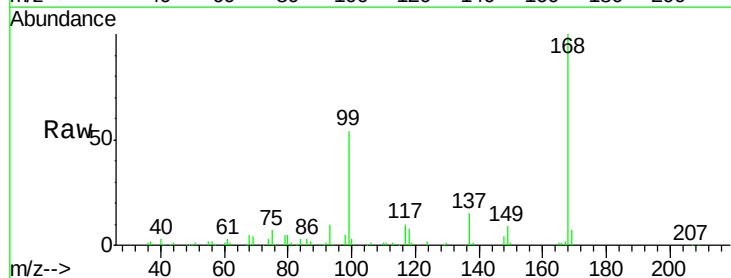
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-32-33RE

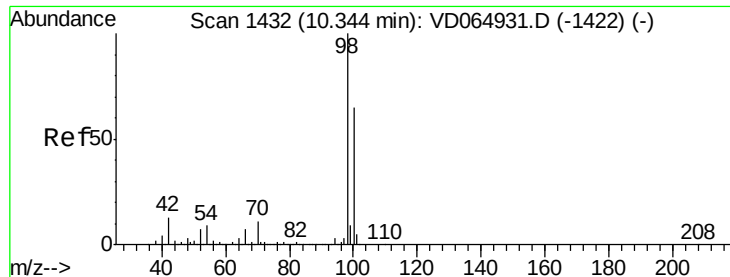
Tgt Ion: 75 Resp: 16850  
 Ion Ratio Lower Upper  
 75 100  
 110 2.0 17.3 52.0#  
 77 0.0 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 5.59 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.11 min  
 Lab File: VD064993.D  
 Acq: 29 Jan 2020 13:25

Tgt Ion: 117 Resp: 21017  
 Ion Ratio Lower Upper  
 117 100  
 119 5.6 73.2 109.8#  
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 50.45 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

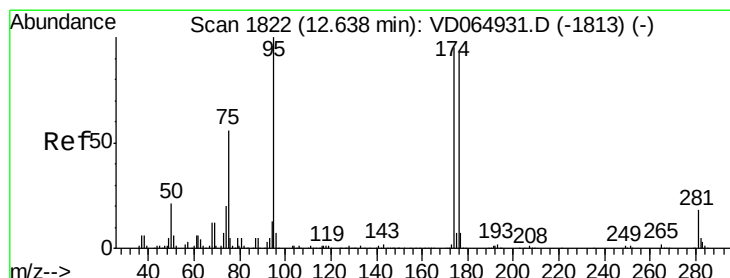
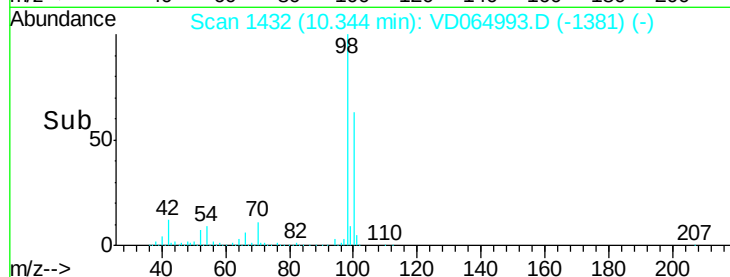
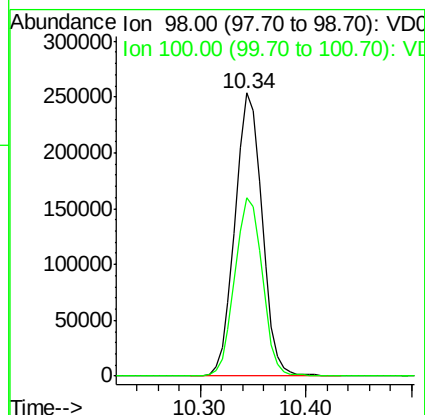
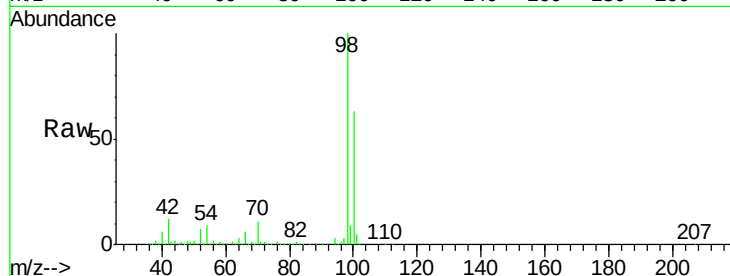
TP-32-33RE

Tgt Ion: 98 Resp: 451508

Ion Ratio Lower Upper

98 100

100 64.0 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 59.08 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

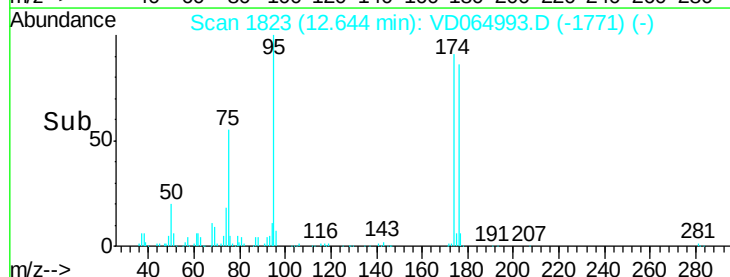
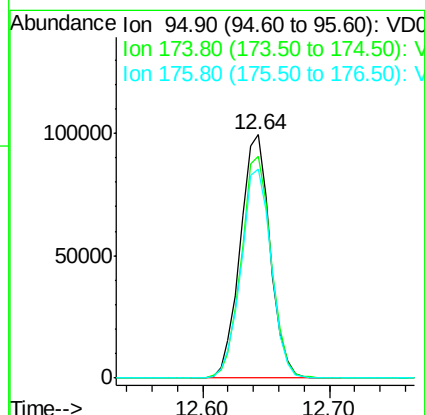
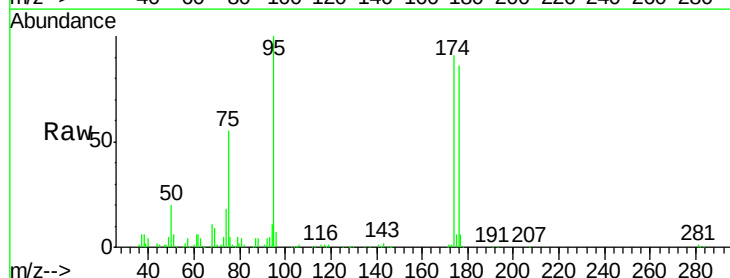
Tgt Ion: 95 Resp: 161790

Ion Ratio Lower Upper

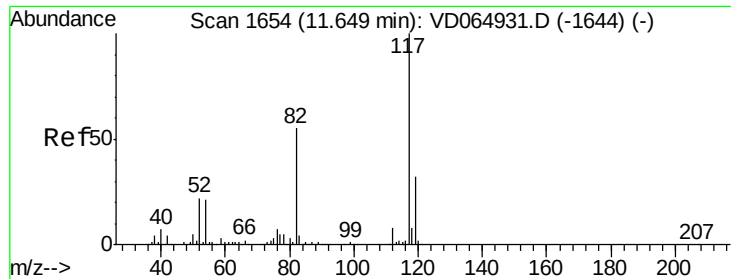
95 100

174 91.9 0.0 186.8

176 87.2 0.0 183.4



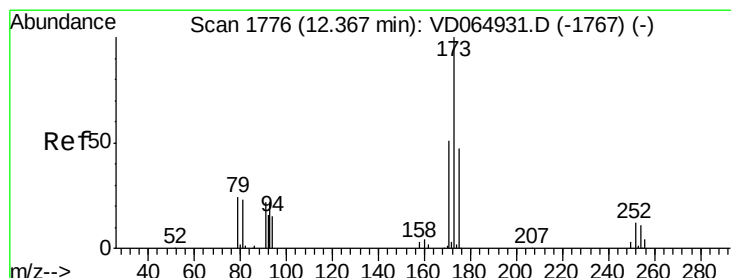
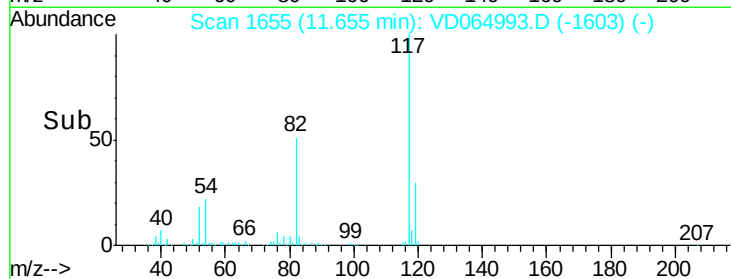
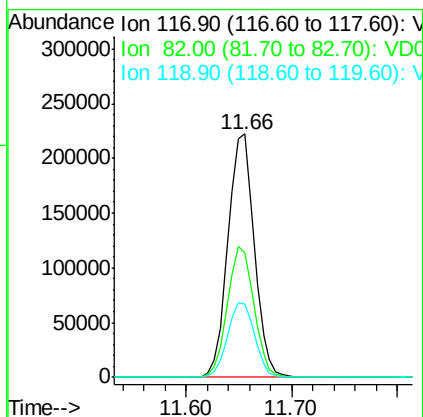
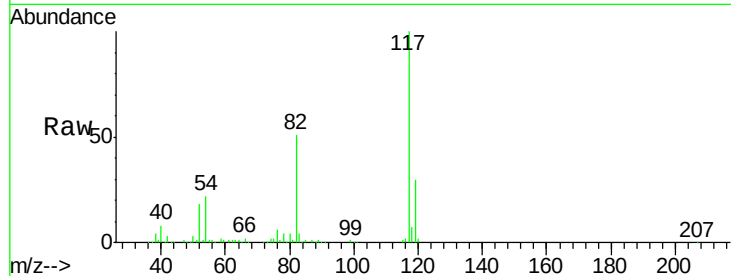




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.66 min Scan# 1655  
Delta R.T. 0.01 min  
Lab File: VD064993.D  
Acq: 29 Jan 2020 13:25

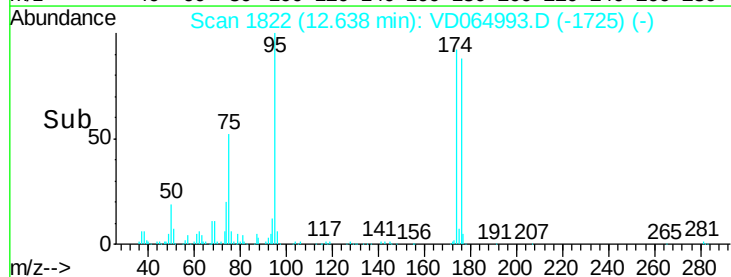
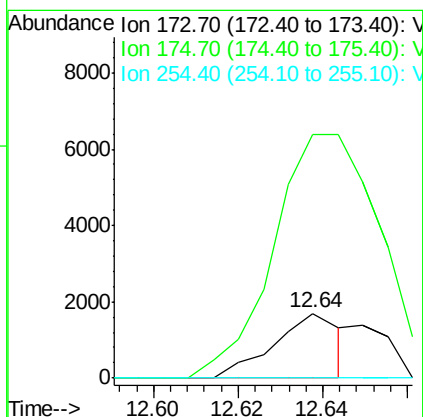
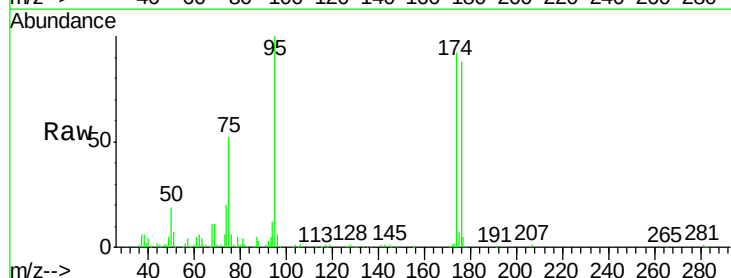
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-32-33RE

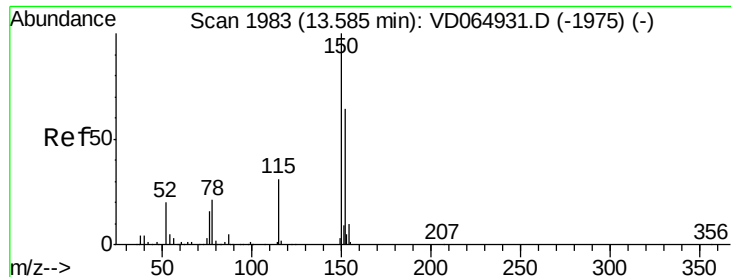
Tgt Ion:117 Resp: 383576  
Ion Ratio Lower Upper  
117 100  
82 50.9 43.6 65.4  
119 30.2 25.2 37.8



#71  
Bromoform  
Concen: 1.14 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.27 min  
Lab File: VD064993.D  
Acq: 29 Jan 2020 13:25

Tgt Ion:173 Resp: 1851  
Ion Ratio Lower Upper  
173 100  
175 412.5 24.6 73.8#  
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

TP-32-33RE

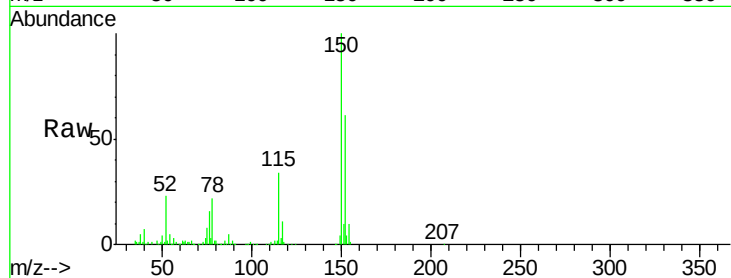
Tgt Ion: 152 Resp: 186668

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.4

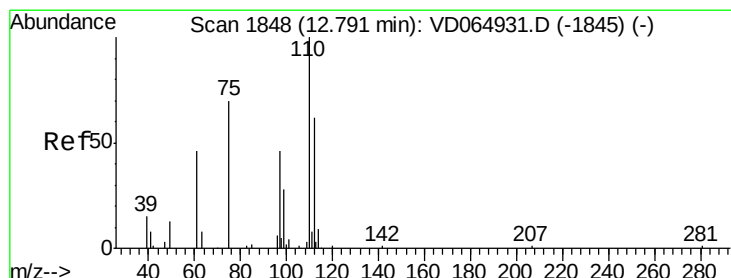
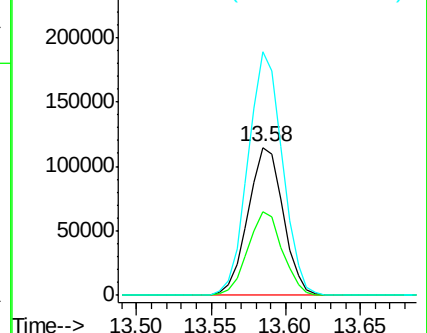
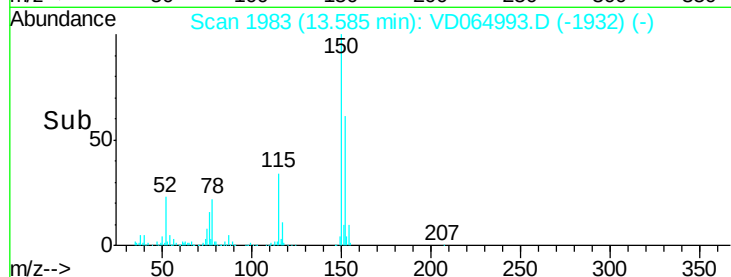
150 161.1 0.0 350.4



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: 56.46 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD064993.D

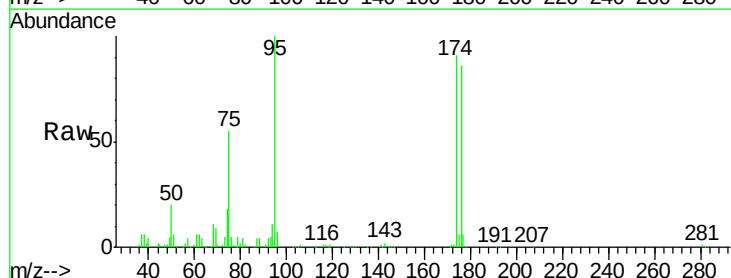
Acq: 29 Jan 2020 13:25

Tgt Ion: 75 Resp: 87483

Ion Ratio Lower Upper

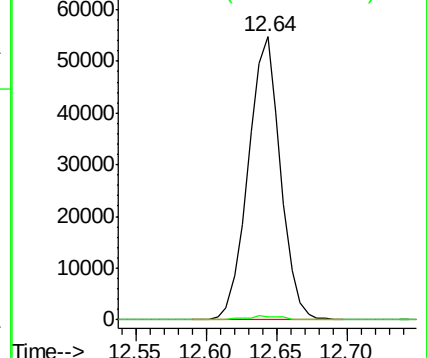
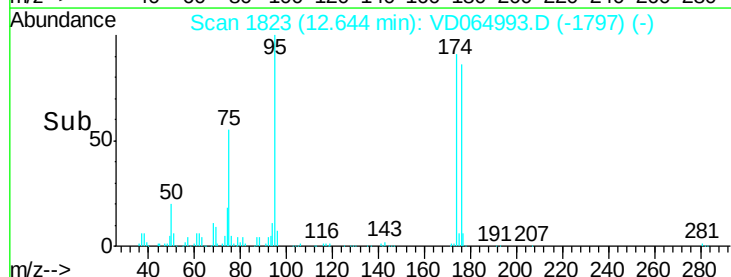
75 100

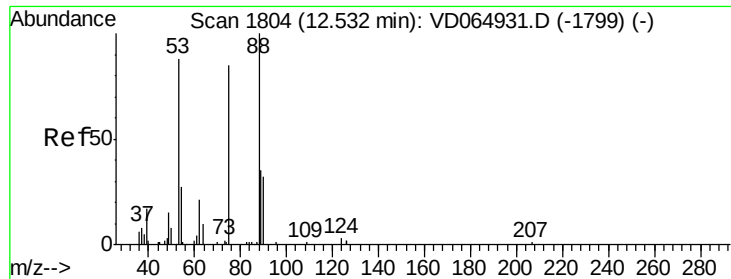
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 120.56 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD064993.D

Acq: 29 Jan 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

TP-32-33RE

Tgt Ion: 75 Resp: 87483

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 36.2 54.4#

