

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122319\  
 Data File : VD064574.D  
 Acq On : 23 Dec 2019 17:58  
 Operator : VA/SY  
 Sample : K6396-09  
 Misc : 4.80G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-4-(0-2)

Quant Time: Dec 24 05:55:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 470658   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 742300   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 773699   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 390028   | 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   | 198819   | 46.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.34%  |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 228364   | 48.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.66%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 914253   | 51.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.80% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 339533   | 59.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.94% |          |

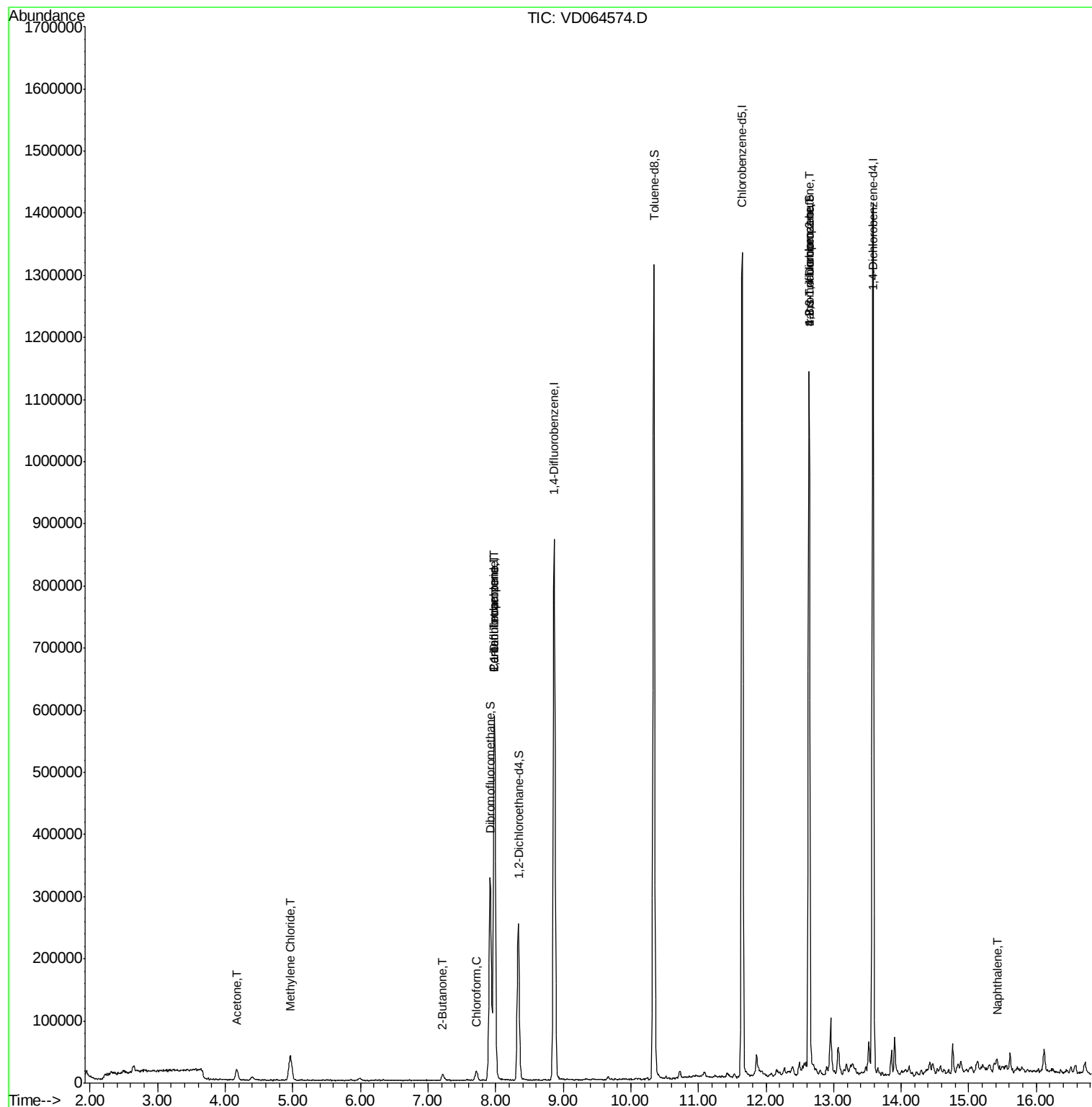
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.17  | 43   | 30997    | 36.006    | ug/l   | 99     |
| 20) Methylene Chloride         | 4.96  | 84   | 31724    | 3.080     | ug/l   | 92     |
| 25) 2-Butanone                 | 7.22  | 43   | 5899     | 4.845     | ug/l   | 92     |
| 30) Chloroform                 | 7.72  | 83   | 15004    | 1.843     | ug/l   | 97     |
| 31) Cyclohexane                | 7.98  | 56   | 9504     | Below Cal | #      | 2      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 32036    | 4.563     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 44942    | 6.065     | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 182610   | 56.933    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 182610   | 124.143   | ug/l # | 9      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 80       | Below Cal | #      | 1      |
| 95) Naphthalene                | 15.41 | 128  | 18867    | 1.314     | ug/l # | 95     |

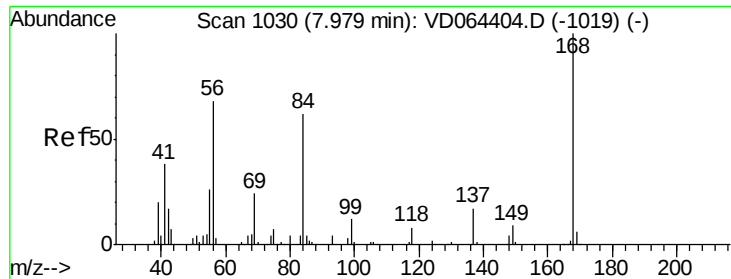
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB-4-(0-2)

Quant Time: Dec 24 05:55:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 29 07:18:03 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

Instrument :

MSVOA\_D

ClientSampleId :

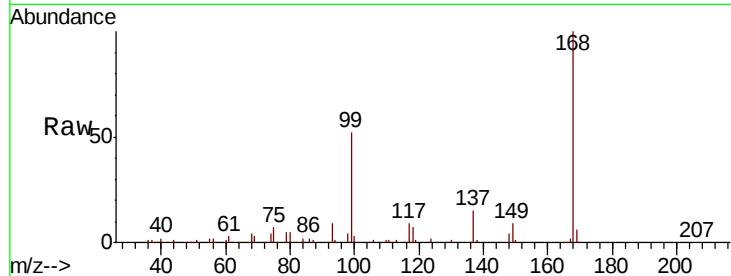
SB-4-(0-2)

Tot Ion:168 Resp: 470658

Ion Ratio Lower Upper

168 100

99 52.1 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

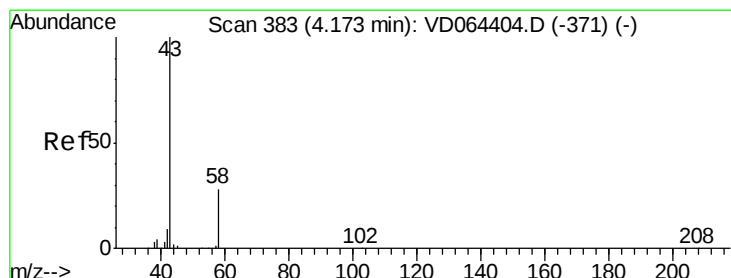
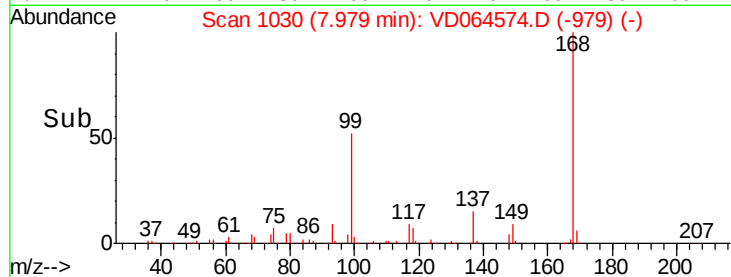
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 36.006 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064574.D

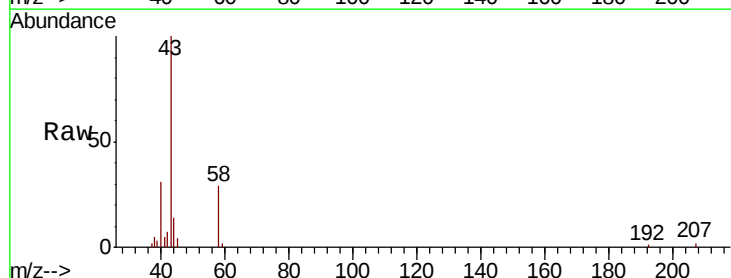
Acq: 23 Dec 2019 17:58

Tgt Ion: 43 Resp: 30997

Ion Ratio Lower Upper

43 100

58 28.8 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

12000

10000

8000

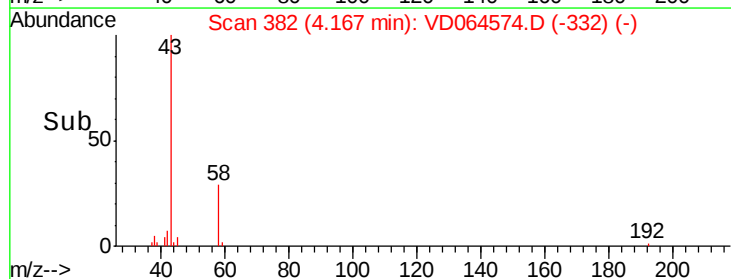
6000

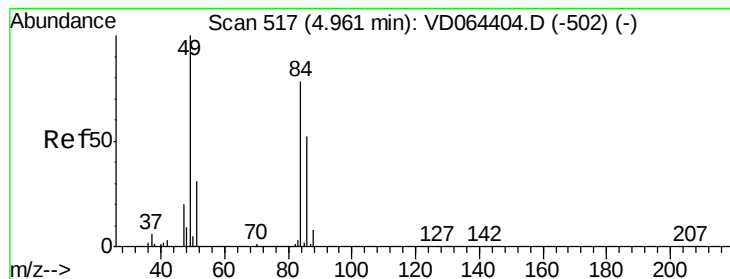
4000

2000

0

Time-->





#20

Methylene Chloride

Concen: 3.080 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

Instrument :

MSVOA\_D

ClientSampleId :

SB-4-(0-2)

Tot Ion: 84 Resp: 31724

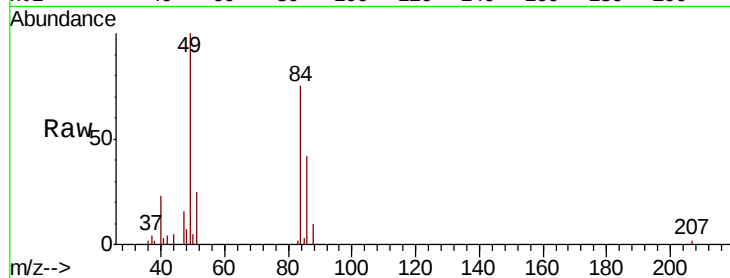
Ion Ratio Lower Upper

84 100

49 134.1 102.6 153.8

51 34.1 32.0 48.0

86 57.0 53.4 80.0

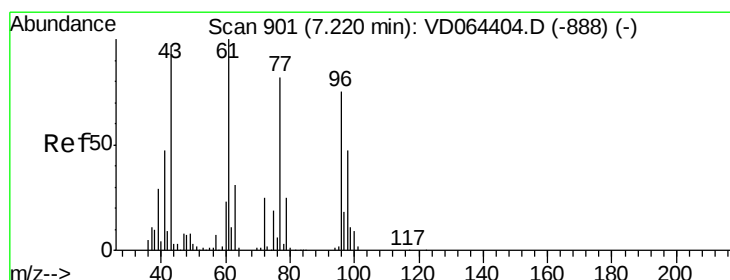
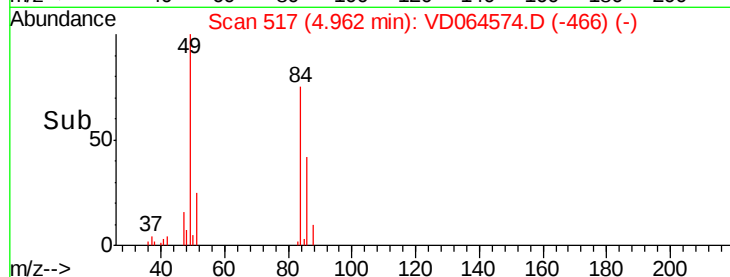
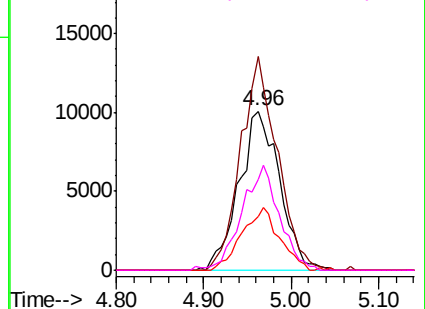


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#25

2-Butanone

Concen: 4.845 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064574.D

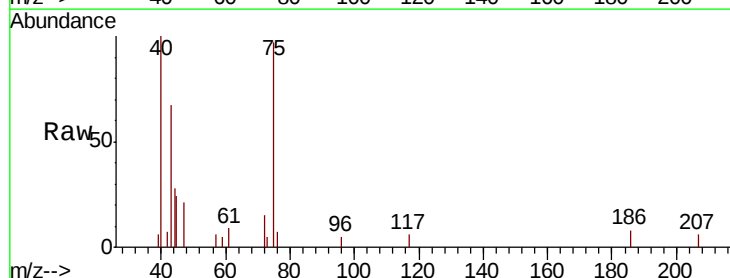
Acq: 23 Dec 2019 17:58

Tgt Ion: 43 Resp: 5899

Ion Ratio Lower Upper

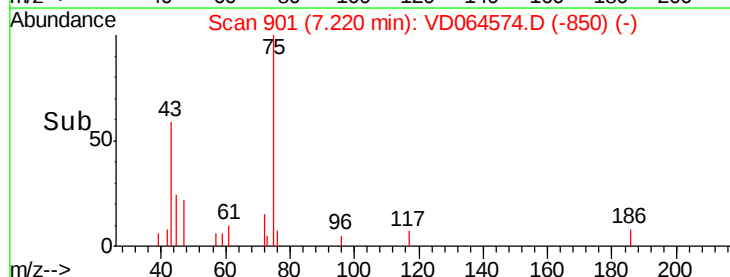
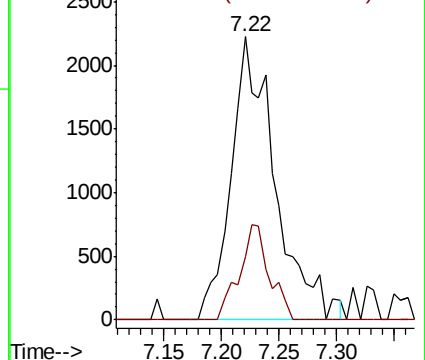
43 100

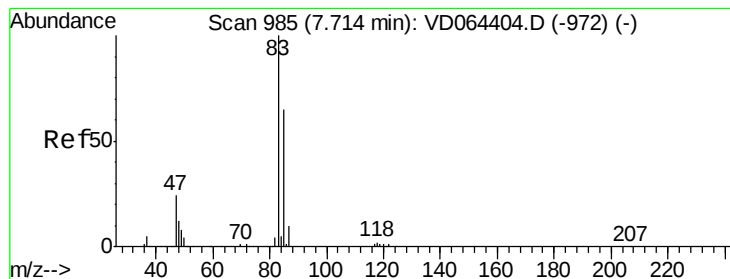
72 22.1 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#30

Chloroform

Concen: 1.843 ug/l

RT: 7.72 min Scan# 986

Delta R.T. 0.01 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

Instrument :

MSVOA\_D

ClientSampleId :

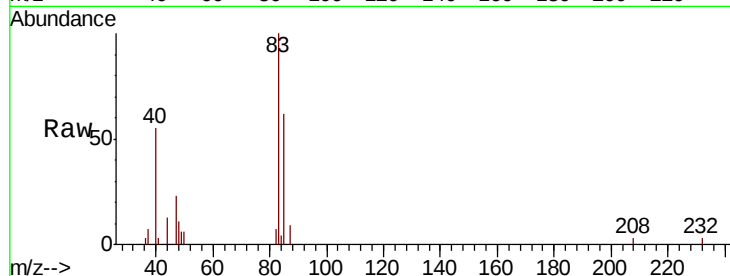
SB-4-(0-2)

Tot Ion: 83 Resp: 15004

Ion Ratio Lower Upper

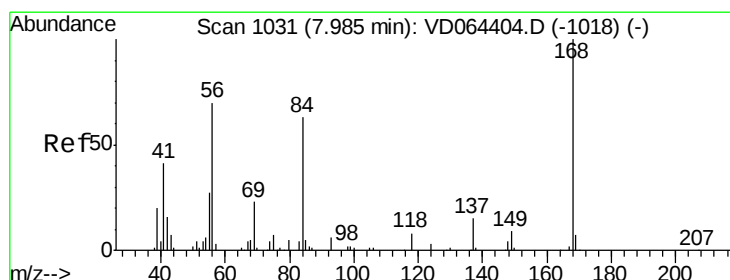
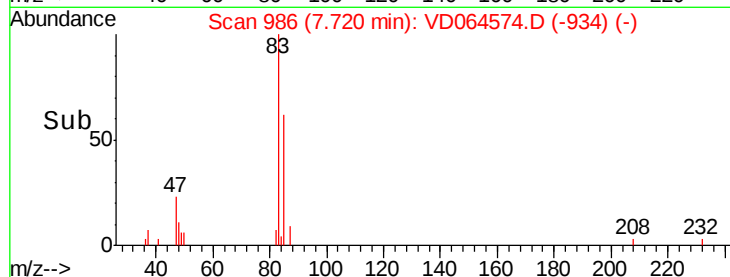
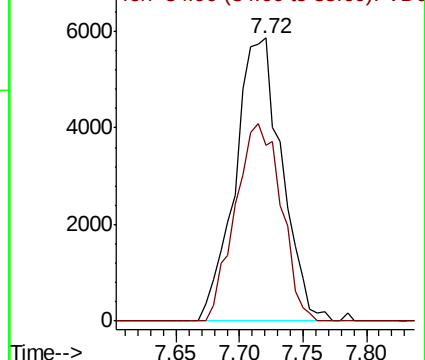
83 100

85 62.3 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

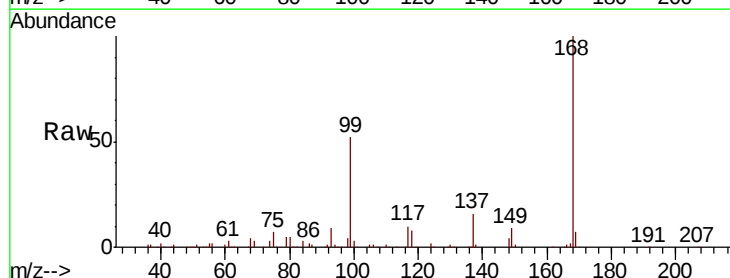
Tgt Ion: 56 Resp: 9504

Ion Ratio Lower Upper

56 100

69 165.0 26.2 39.4#

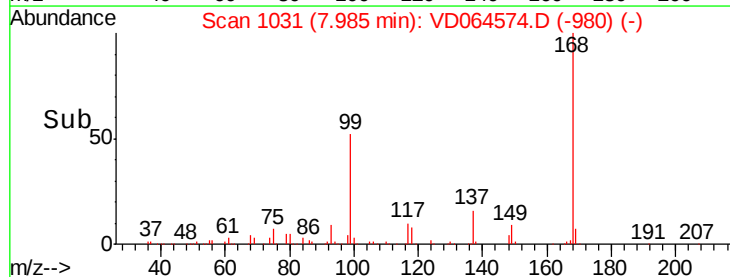
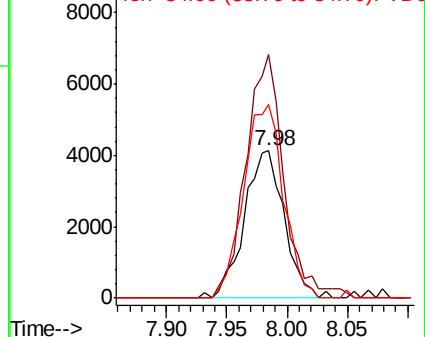
84 131.5 70.3 105.5#

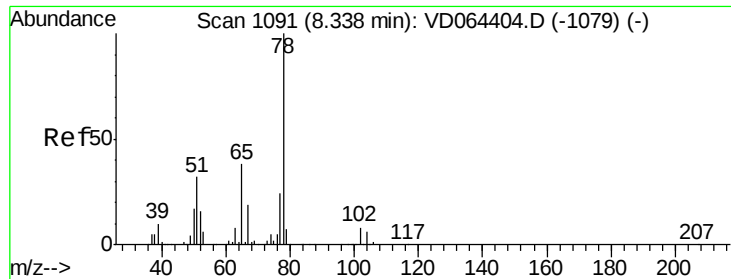


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

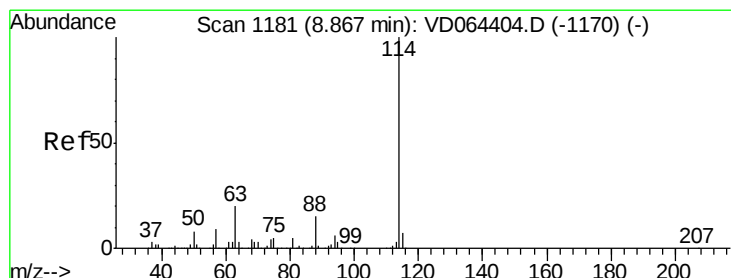
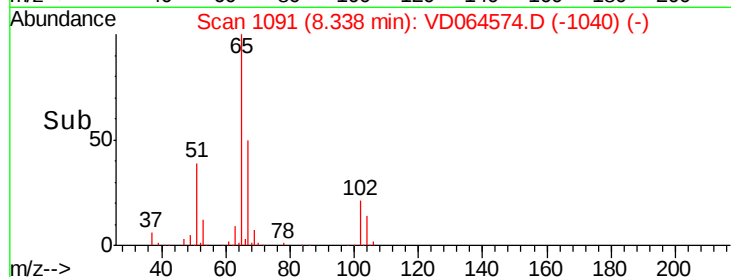
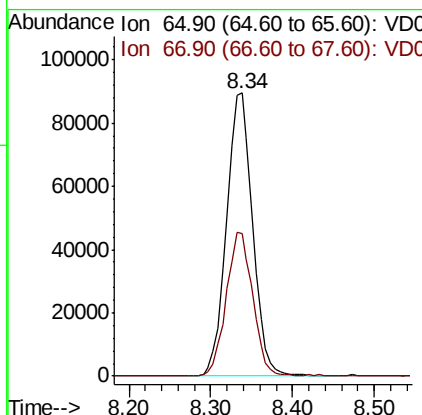
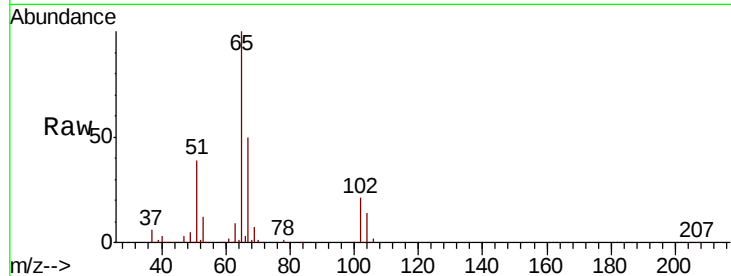




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.670 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.00 min  
 Lab File: VD064574.D  
 Acq: 23 Dec 2019 17:58

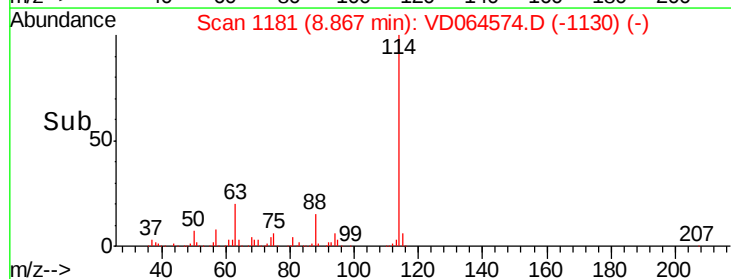
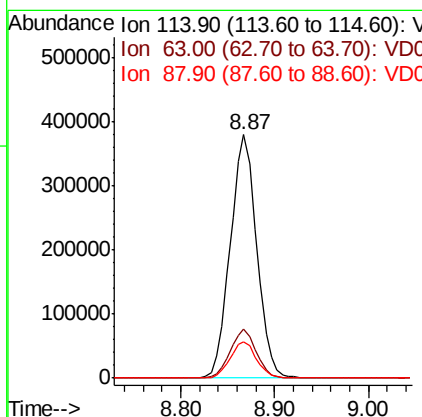
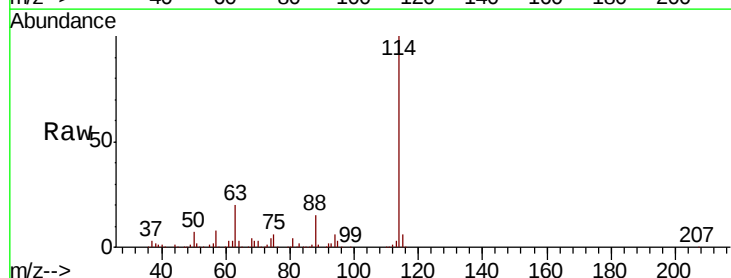
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-4-(0-2)

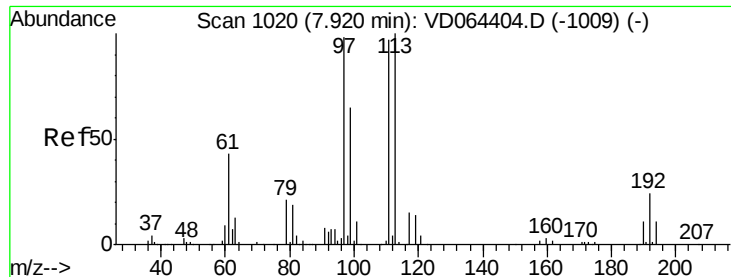
Tot Ion: 65 Resp: 198819  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 102.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064574.D  
 Acq: 23 Dec 2019 17:58

Tgt Ion: 114 Resp: 742300  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 40.0  
 88 15.0 0.0 29.2

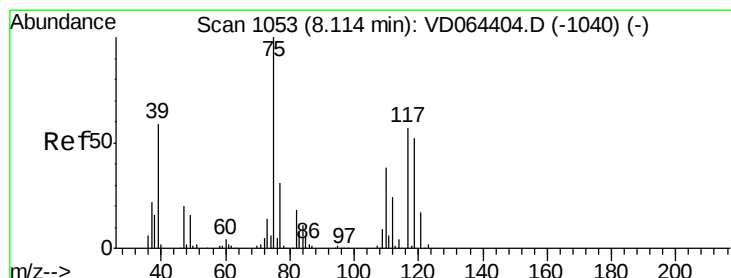
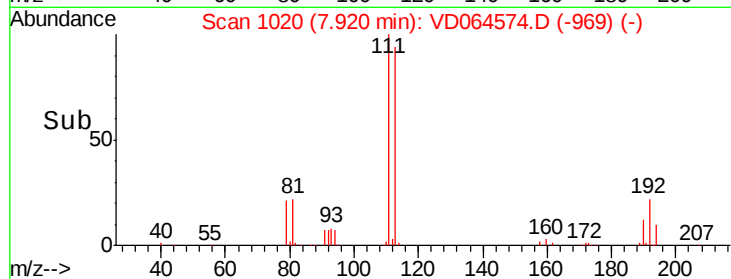
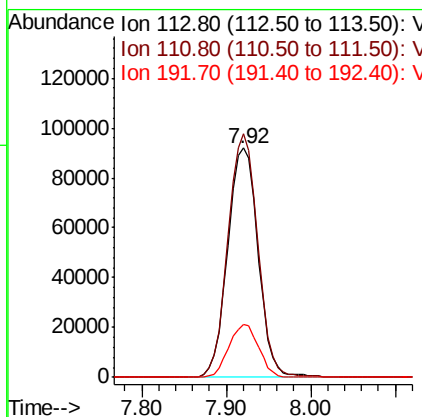
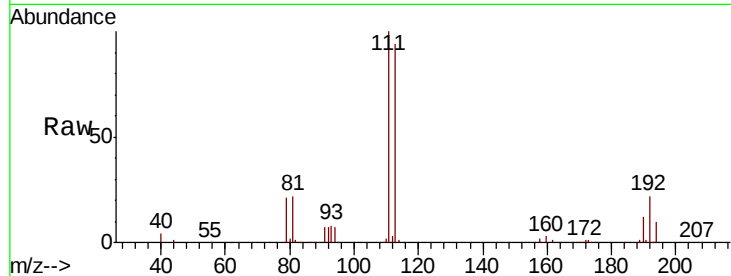




#35  
 Dibromofluoromethane  
 Concen: 48.828 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064574.D  
 Acq: 23 Dec 2019 17:58

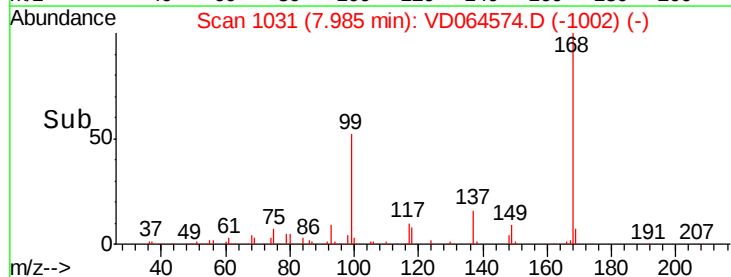
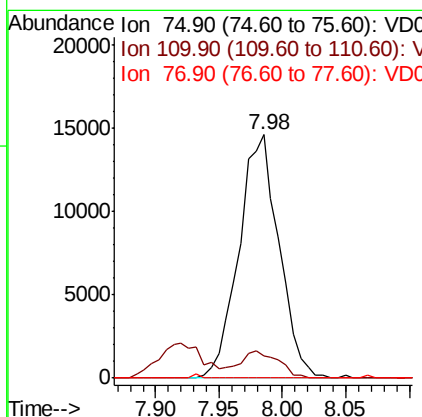
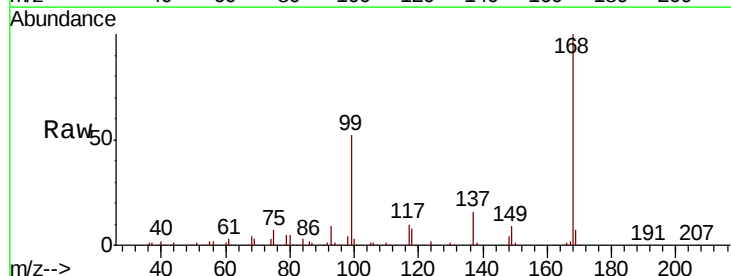
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-4-(0-2)

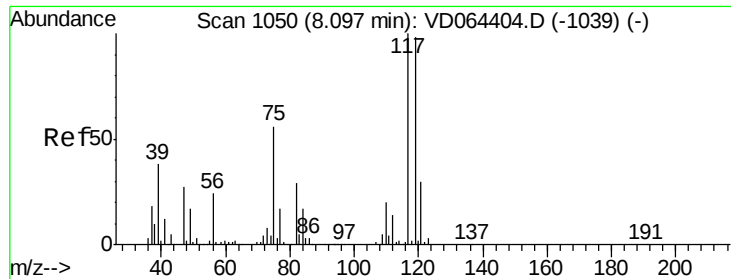
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.8 | 79.4  | 119.2 |
| 192     | 22.4  | 18.6  | 28.0  |



#36  
 1,1-Dichloropropene  
 Concen: 4.563 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064574.D  
 Acq: 23 Dec 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.6  | 18.6  | 55.8# |
| 77      | 0.0   | 25.0  | 37.4# |

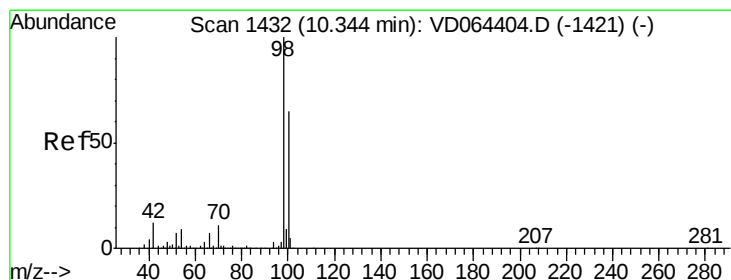
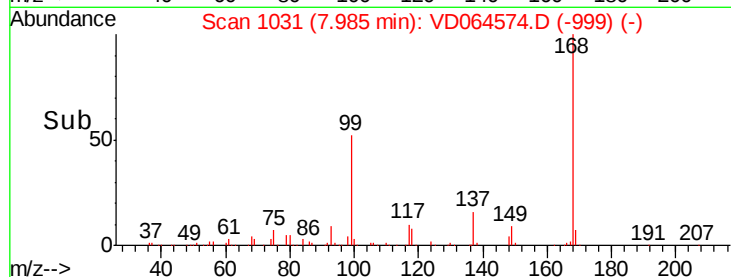
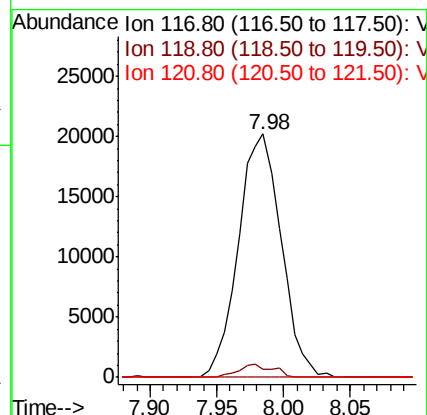
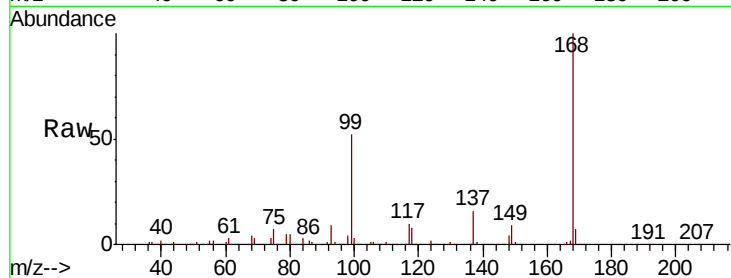




#38  
Carbon Tetrachloride  
Concen: 6.065 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD064574.D  
Acq: 23 Dec 2019 17:58

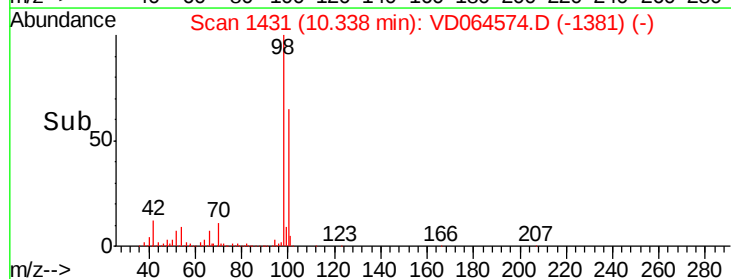
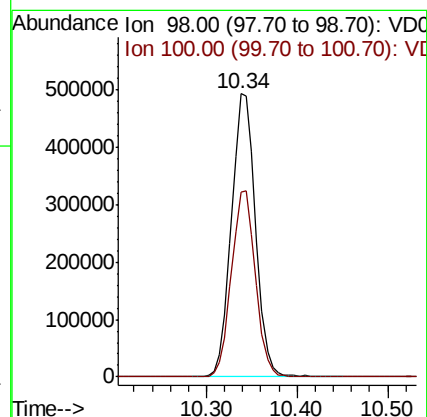
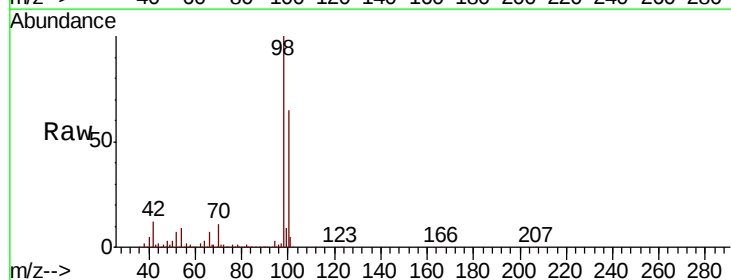
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4-(0-2)

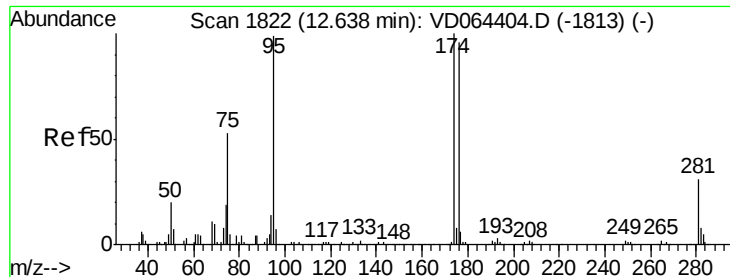
Tot Ion:117 Resp: 44942  
Ion Ratio Lower Upper  
117 100  
119 3.4 78.8 118.2#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 51.895 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. -0.01 min  
Lab File: VD064574.D  
Acq: 23 Dec 2019 17:58

Tgt Ion: 98 Resp: 914253  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.6 79.0

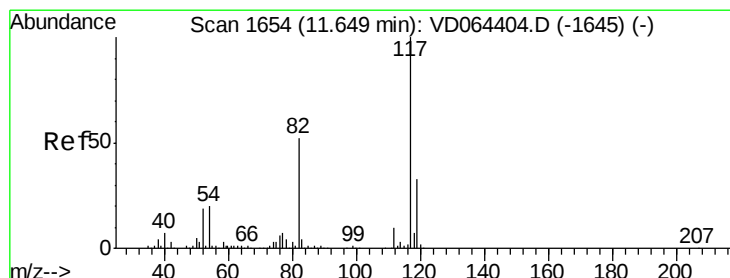
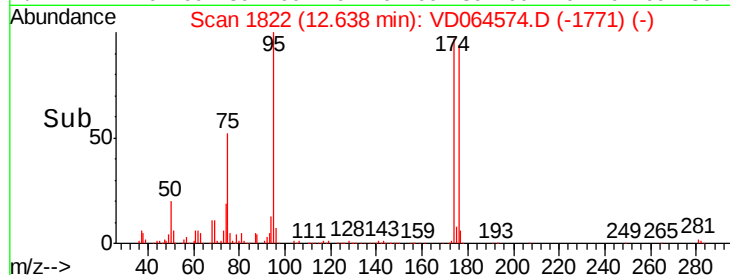
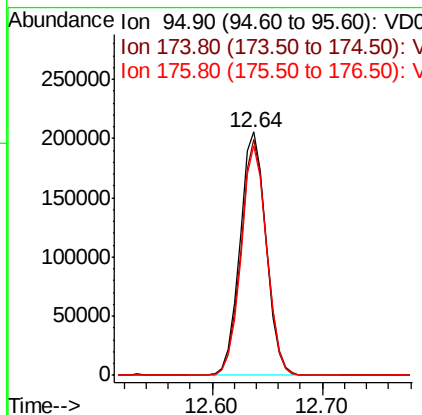
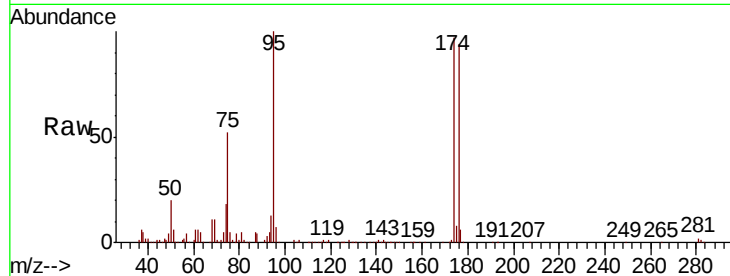




#62  
4-Bromofluorobenzene  
Concen: 59.970 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064574.D  
Acq: 23 Dec 2019 17:58

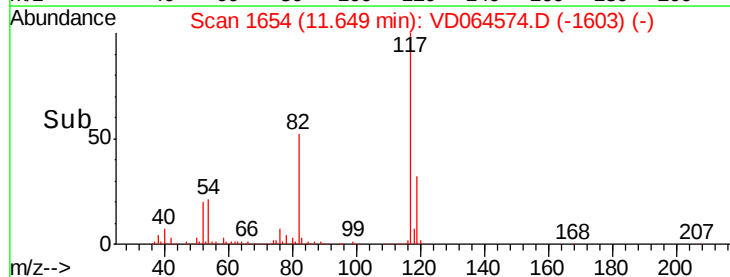
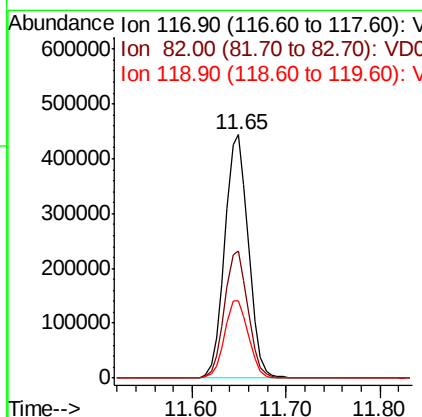
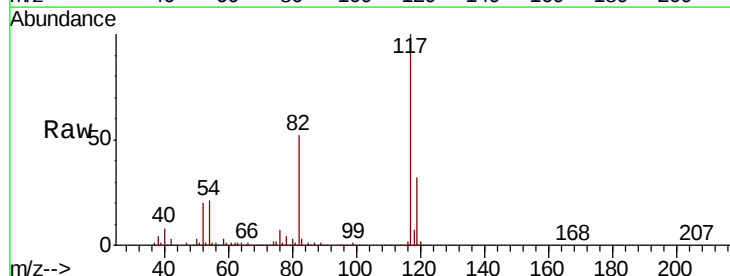
Instrument :  
MSVOA\_D  
ClientSampled :  
SB-4-(0-2)

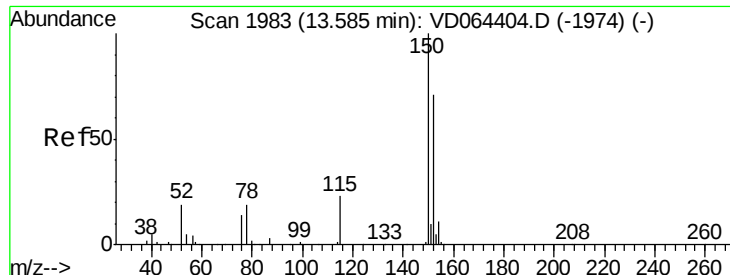
Tot Ion: 95 Resp: 339533  
Ion Ratio Lower Upper  
95 100  
174 96.1 0.0 197.2  
176 92.7 0.0 189.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064574.D  
Acq: 23 Dec 2019 17:58

Tgt Ion: 117 Resp: 773699  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.4 62.2  
119 31.7 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

Instrument :

MSVOA\_D

ClientSampleId :

SB-4-(0-2)

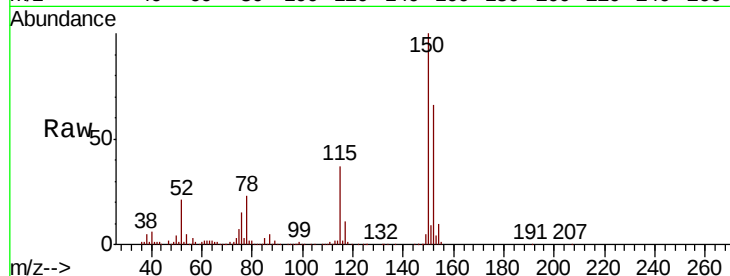
Tot Ion:152 Resp: 390028

Ion Ratio Lower Upper

152 100

115 53.9 26.7 80.1

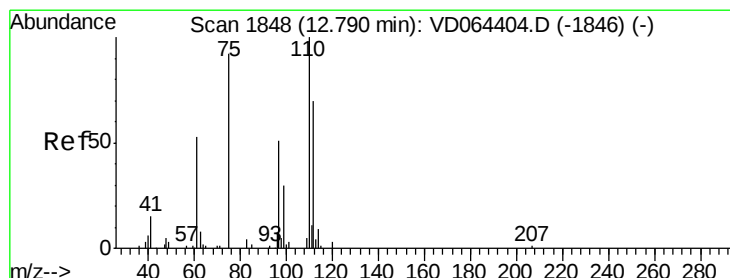
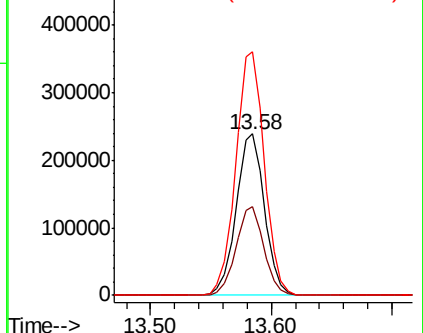
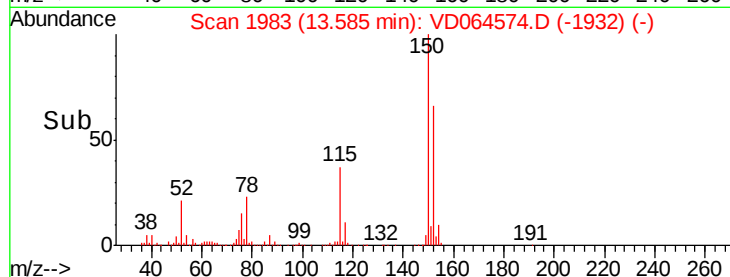
150 151.9 0.0 347.2



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: 56.933 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064574.D

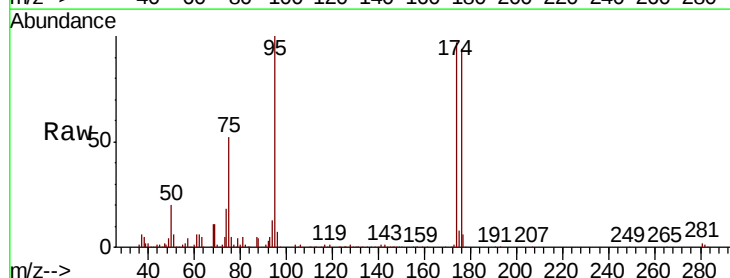
Acq: 23 Dec 2019 17:58

Tgt Ion: 75 Resp: 182610

Ion Ratio Lower Upper

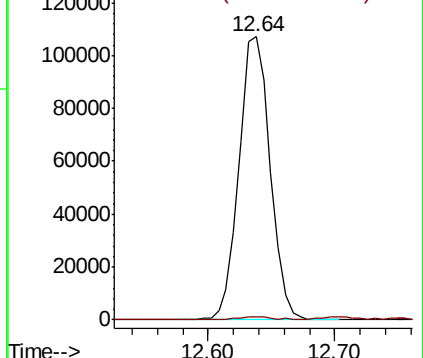
75 100

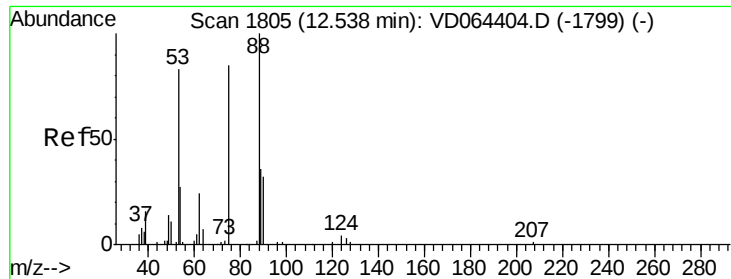
77 1.4 0.0 0.0#



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: 124.143 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

Instrument :

MSVOA\_D

ClientSampled :

SB-4-(0-2)

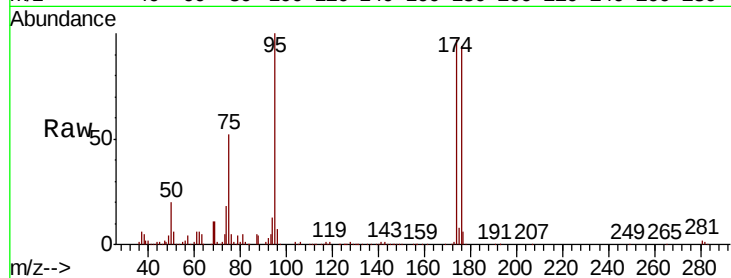
Tot Ion: 75 Resp: 182610

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

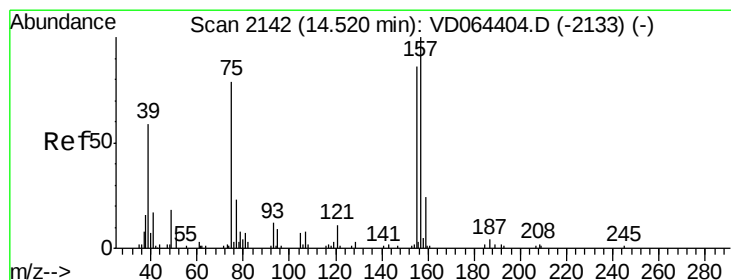
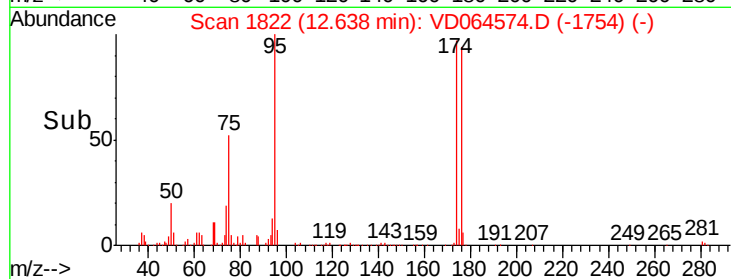
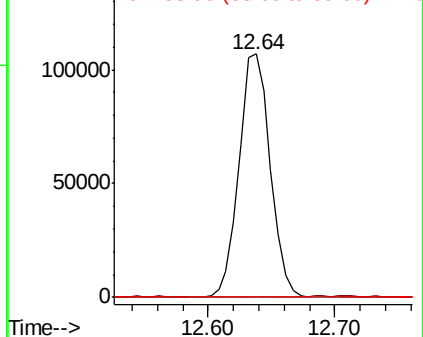
89 0.0 38.5 57.7#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.51 min Scan# 2141

Delta R.T. -0.01 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

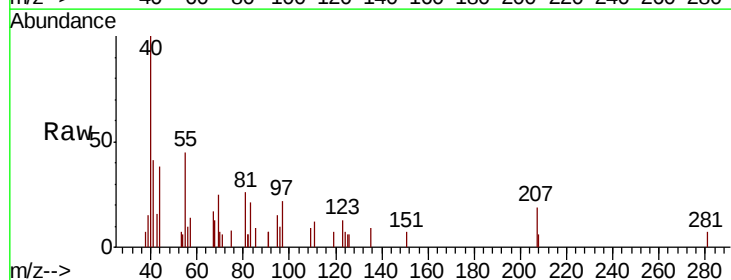
Tgt Ion: 75 Resp: 80

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

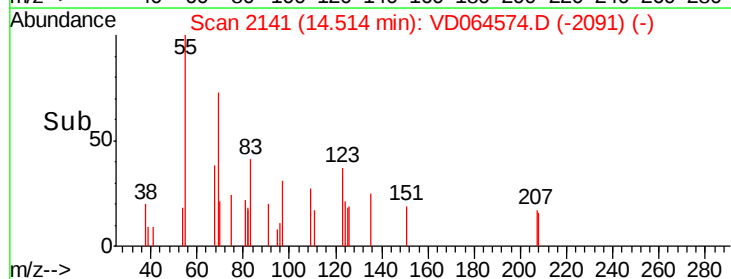
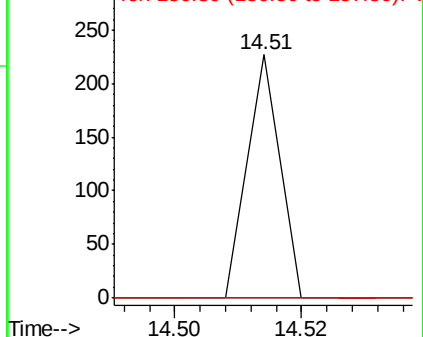
157 0.0 63.2 189.8#

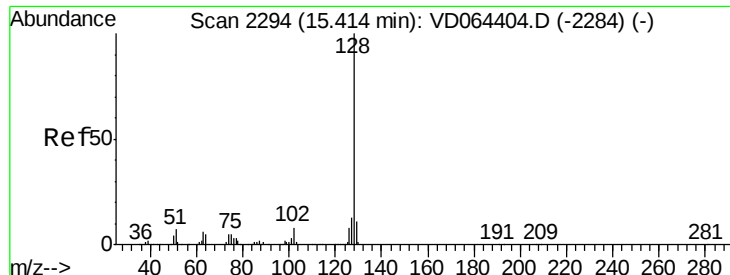


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.314 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064574.D

Acq: 23 Dec 2019 17:58

Instrument :

MSVOA\_D

ClientSampleId :

SB-4-(0-2)

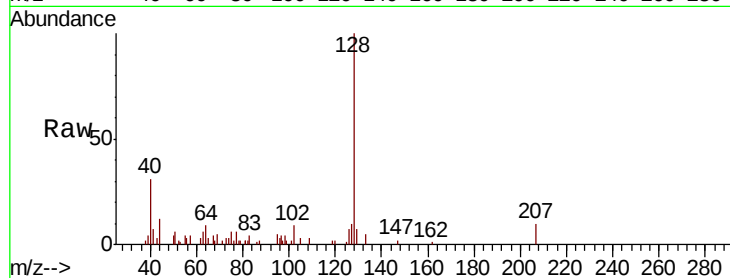
Tot Ion:128 Resp: 18867

Ion Ratio Lower Upper

128 100

127 14.3 10.5 15.7

129 13.7 8.8 13.2#



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

