

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110920\  
 Data File : VD067562.D  
 Acq On : 09 Nov 2020 13:34  
 Operator : VA/SY  
 Sample : L4658-05  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 10 00:19:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 242588   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 390788   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 376774   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 166688   | 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   | 120572   | 56.84  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 113.68% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 125272   | 53.21  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.42% |          |
| 50) Toluene-d8              | 10.34 | 98   | 451886   | 54.61  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.22% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 151577   | 53.06  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.12% |          |

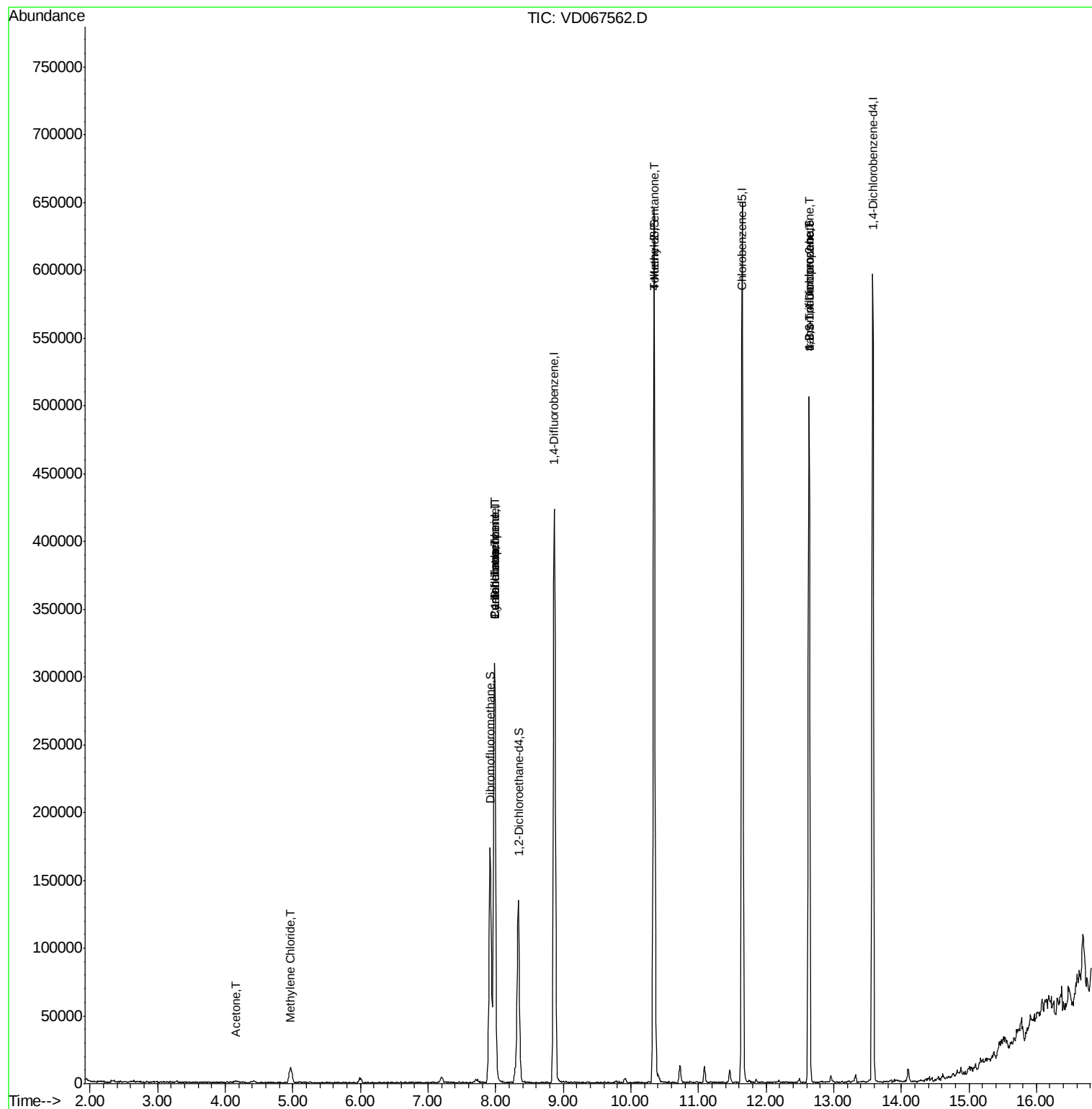
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 288      | Below Cal | #      | 44     |
| 11) Tert butyl alcohol         | 5.23  | 59   | 58       | Below Cal | #      | 79     |
| 16) Acetone                    | 4.16  | 43   | 2442     | 7.693     | ug/l # | 43     |
| 20) Methylene Chloride         | 4.97  | 84   | 10269    | 4.580     | ug/l # | 87     |
| 31) Cyclohexane                | 7.98  | 56   | 4636     | 1.507     | ug/l # | 24     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 15700    | 4.693     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 24679    | 5.678     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.35 | 43   | 1997     | 2.431     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 80294    | 79.850    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 80294    | 162.117   | ug/l # | 10     |

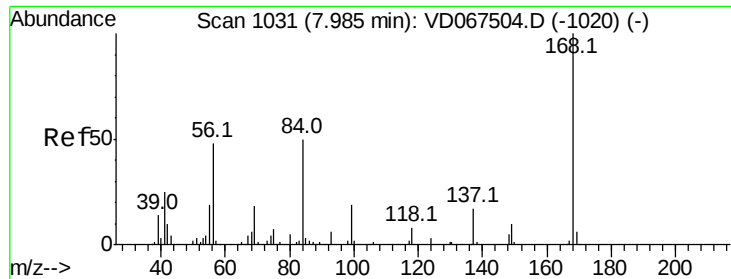
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD110920\  
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Sample : L4658-05  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Nov 10 00:19:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 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: VD067562.D

Acq: 09 Nov 2020 13:34

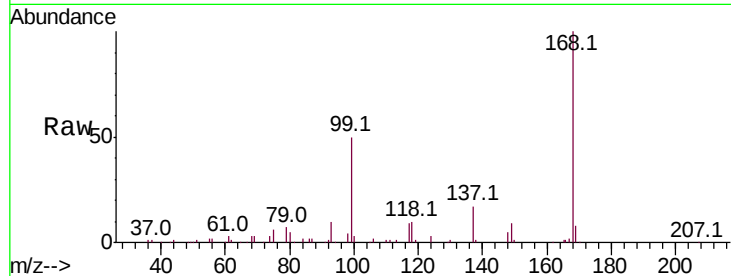
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 242588

Ion Ratio Lower Upper

168 100

99 50.1 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

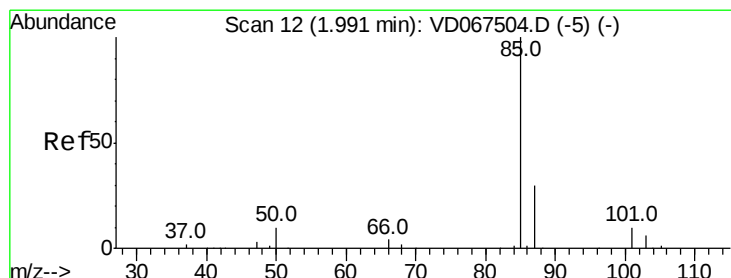
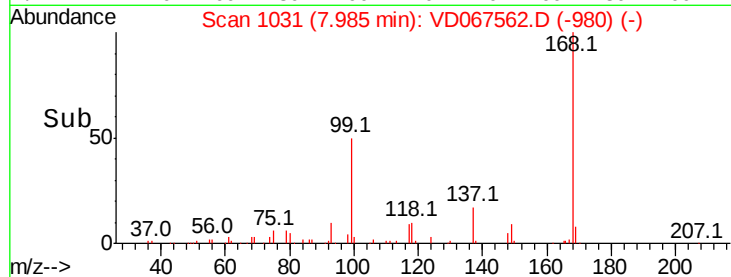
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD067562.D

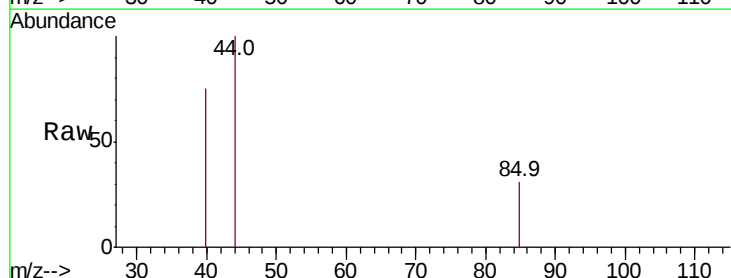
Acq: 09 Nov 2020 13:34

Tgt Ion: 85 Resp: 288

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

400

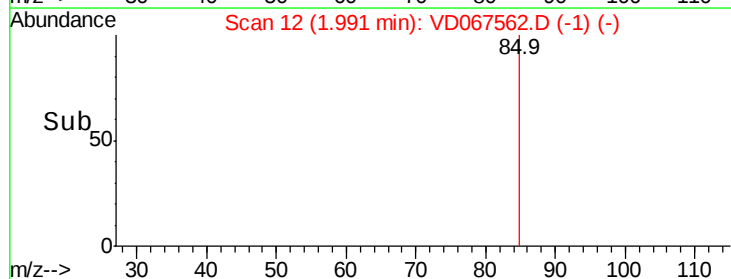
300

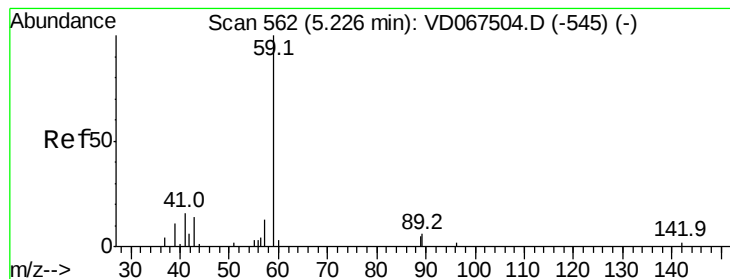
200

100

0

Time-->



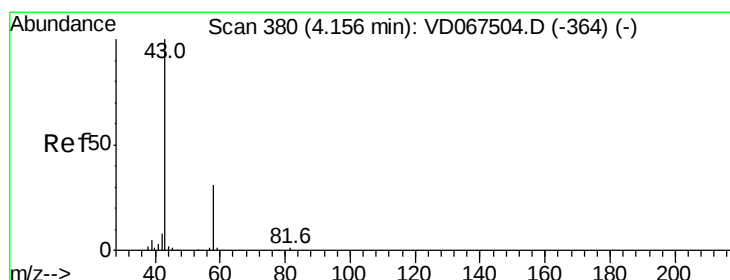
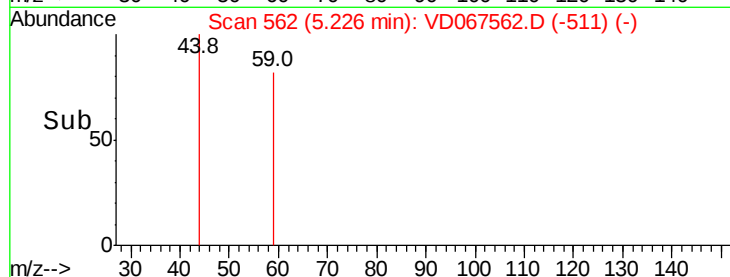
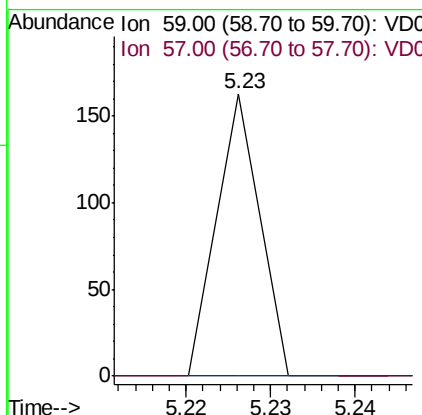
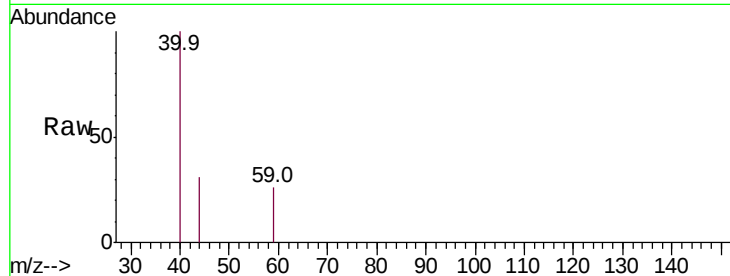


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.23 min Scan# 562  
 Delta R.T. 0.00 min  
 Lab File: VD067562.D  
 Acq: 09 Nov 2020 13:34

Instrument :  
 MSVOA\_D  
 ClientSampleId :

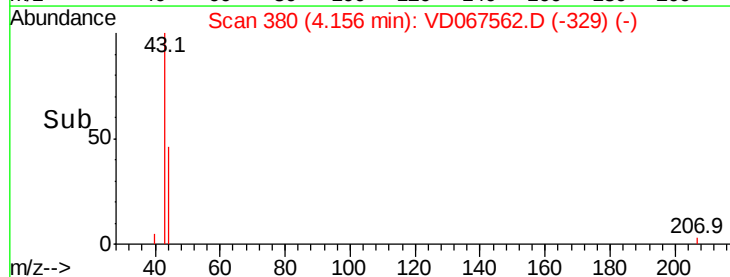
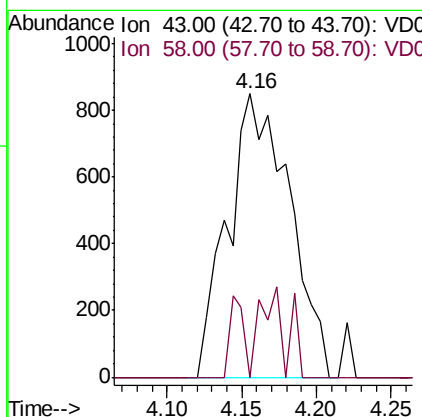
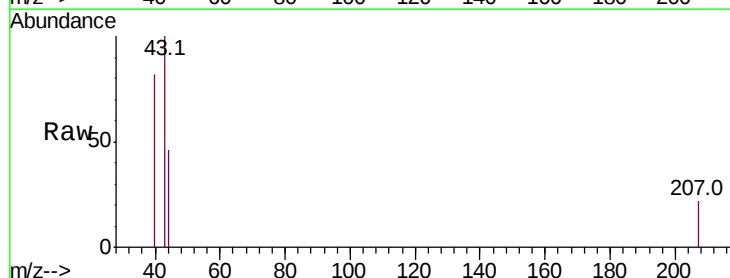
Tot Ion: 59 Resp: 58  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 5.9 8.9#

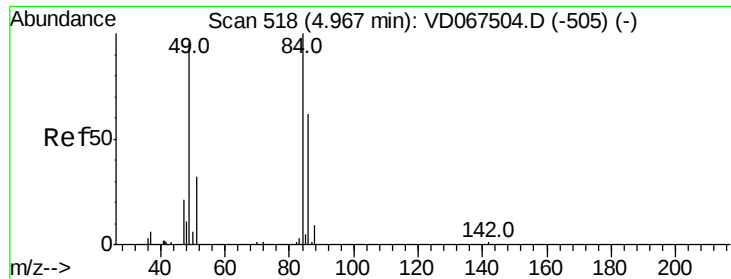


#16

Acetone  
 Concen: 7.693 ug/l  
 RT: 4.16 min Scan# 380  
 Delta R.T. -0.00 min  
 Lab File: VD067562.D  
 Acq: 09 Nov 2020 13:34

Tgt Ion: 43 Resp: 2442  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 25.2 37.8#





#20

Methvlene Chloride

Concen: 4.580 ug/l

RT: 4.97 min Scan# 518

Delta R.T. -0.00 min

Lab File: VD067562.D

Acq: 09 Nov 2020 13:34

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 84 Resp: 10269

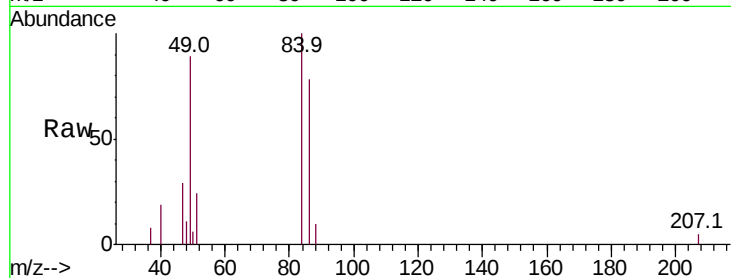
Ion Ratio Lower Upper

84 100

49 89.3 77.0 115.4

51 23.9 25.4 38.2#

86 78.5 49.4 74.0#

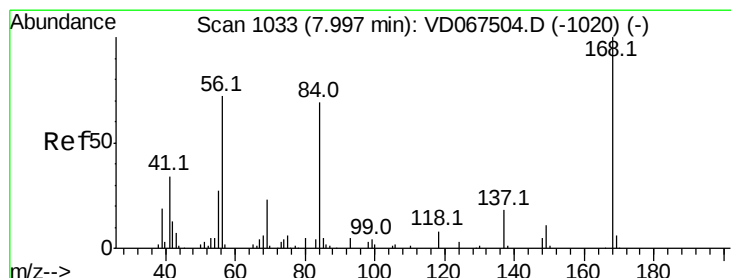
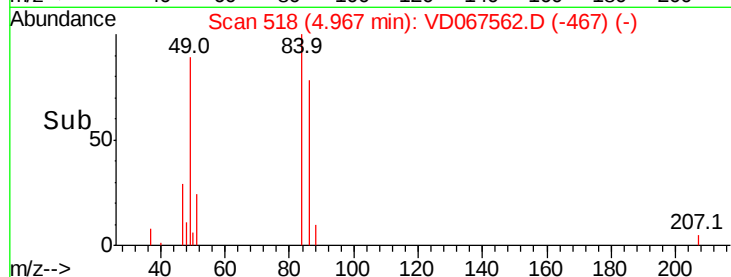
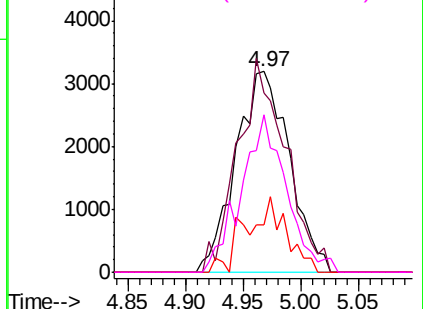


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#31

Cyclohexane

Concen: 1.507 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.02 min

Lab File: VD067562.D

Acq: 09 Nov 2020 13:34

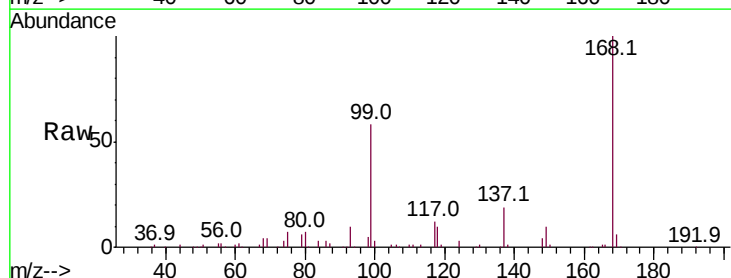
Tgt Ion: 56 Resp: 4636

Ion Ratio Lower Upper

56 100

69 173.7 25.9 38.9#

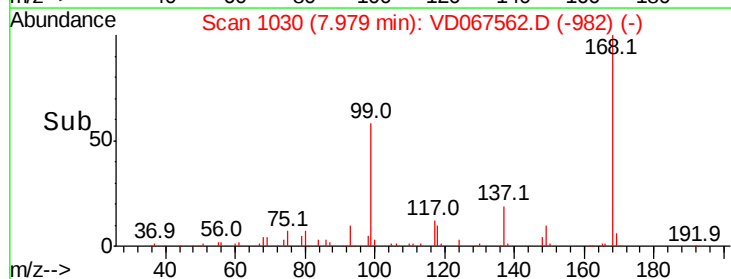
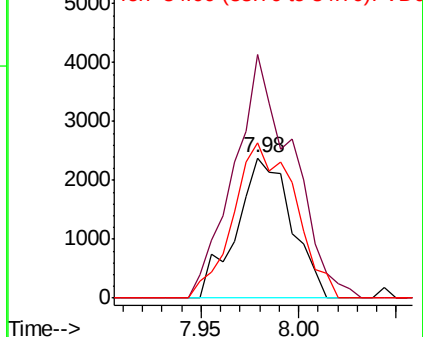
84 110.6 76.2 114.4

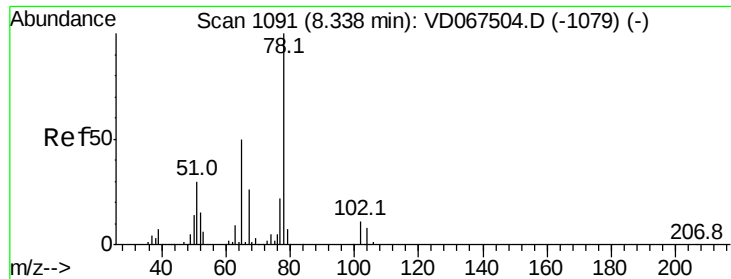


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

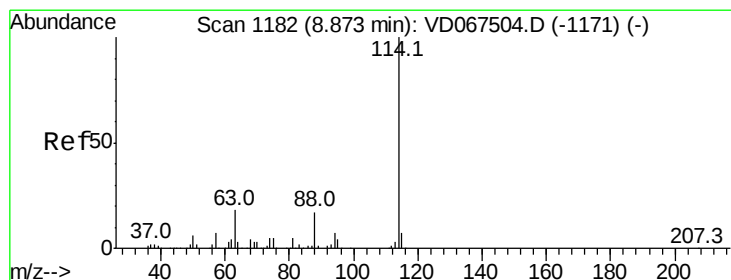
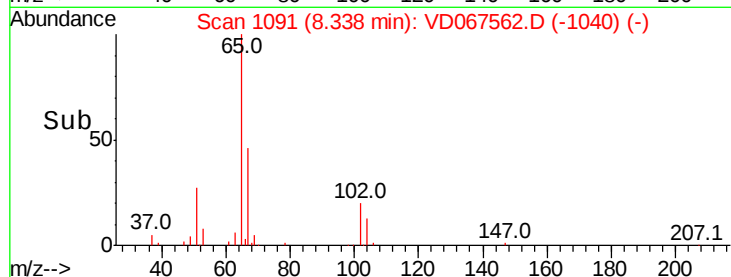
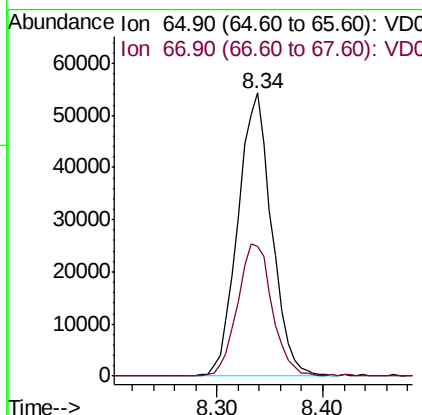
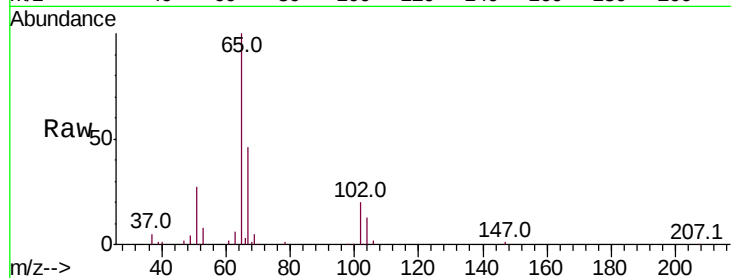




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.842 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VD067562.D  
 Acq: 09 Nov 2020 13:34

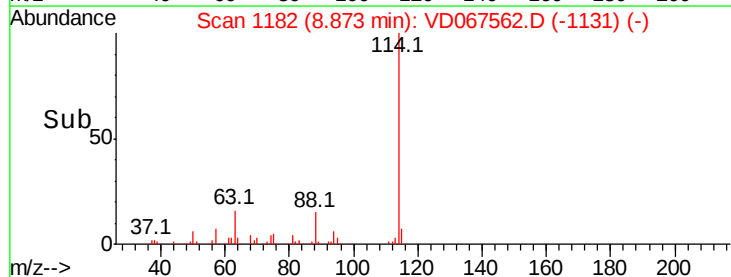
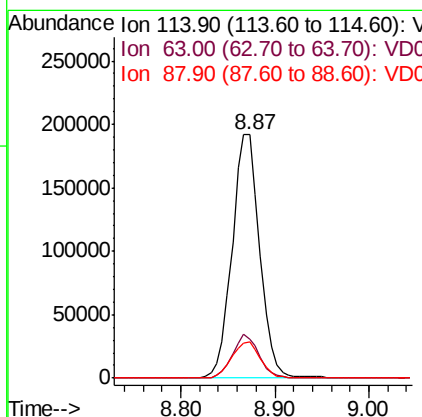
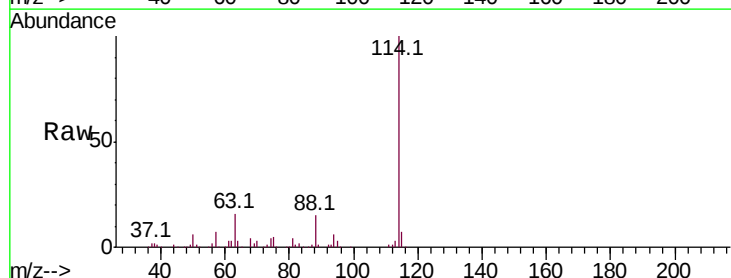
Instrument :  
 MSVOA\_D  
 ClientSampleId :

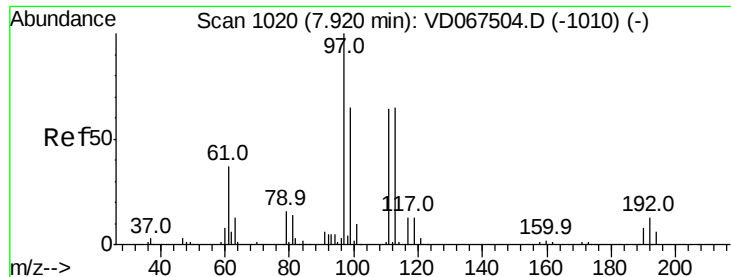
Tot Ion: 65 Resp: 120572  
 Ion Ratio Lower Upper  
 65 100  
 67 47.8 0.0 99.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1182  
 Delta R.T. -0.00 min  
 Lab File: VD067562.D  
 Acq: 09 Nov 2020 13:34

Tgt Ion:114 Resp: 390788  
 Ion Ratio Lower Upper  
 114 100  
 63 15.9 0.0 35.0  
 88 15.1 0.0 33.0

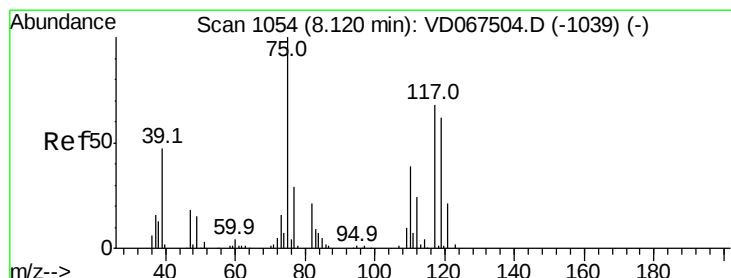
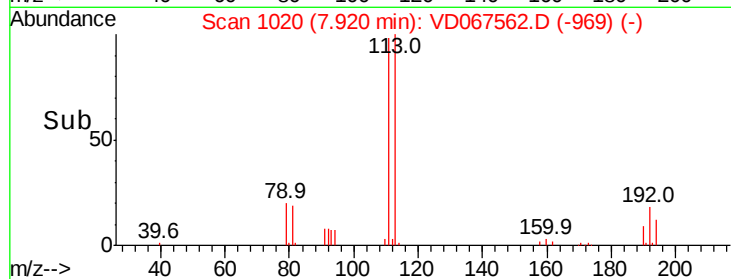
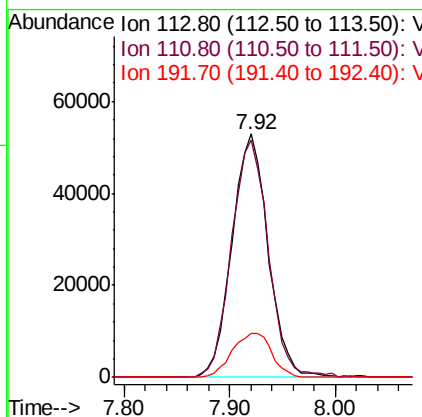
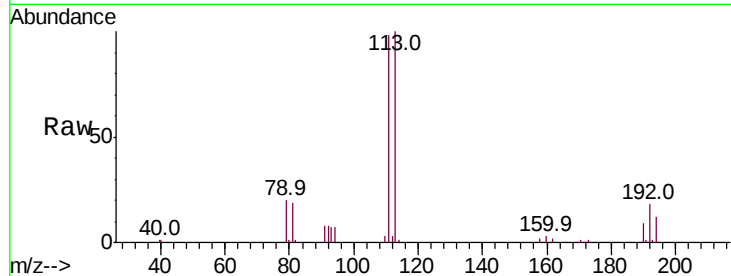




#35  
 Dibromofluoromethane  
 Concen: 53.206 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD067562.D  
 Acq: 09 Nov 2020 13:34

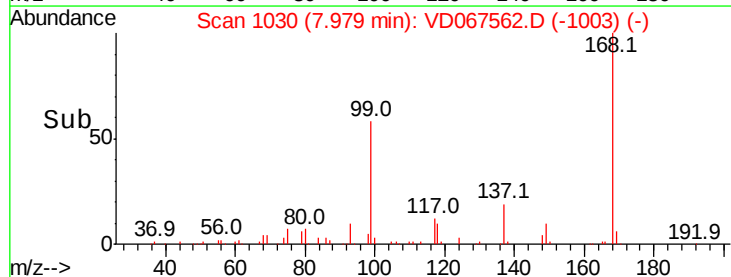
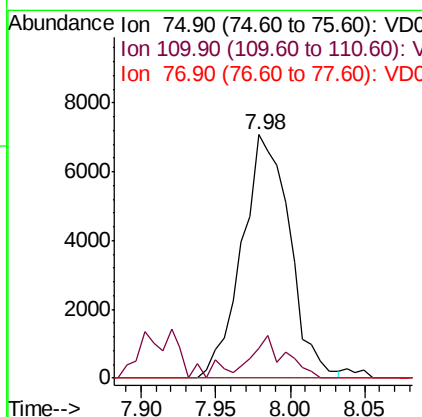
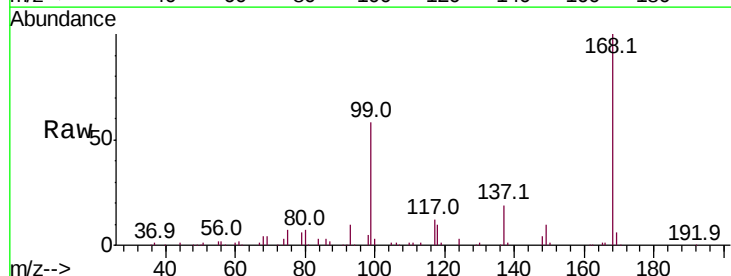
Instrument :  
 MSVOA\_D  
 ClientSampleId :

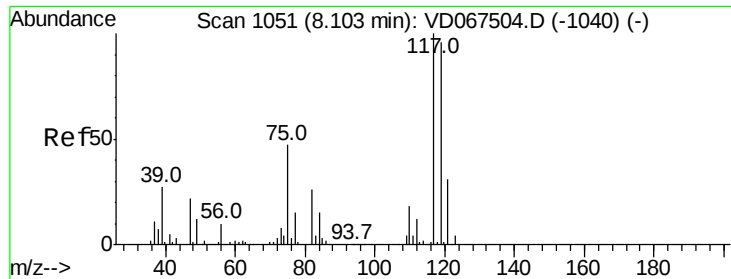
Tot Ion:113 Resp: 125272  
 Ion Ratio Lower Upper  
 113 100  
 111 99.7 80.0 120.0  
 192 19.9 16.3 24.5



#36  
 1,1-Dichloropropene  
 Concen: 4.693 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD067562.D  
 Acq: 09 Nov 2020 13:34

Tgt Ion: 75 Resp: 15700  
 Ion Ratio Lower Upper  
 75 100  
 110 12.1 19.9 59.7#  
 77 0.0 24.8 37.2#

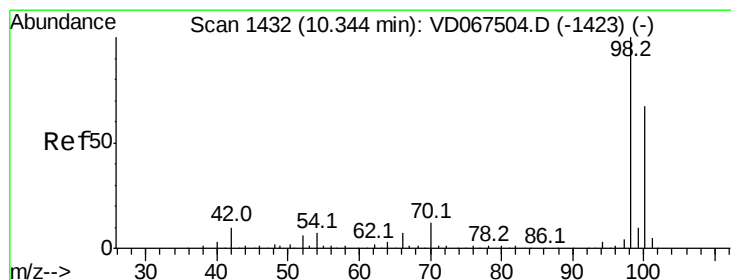
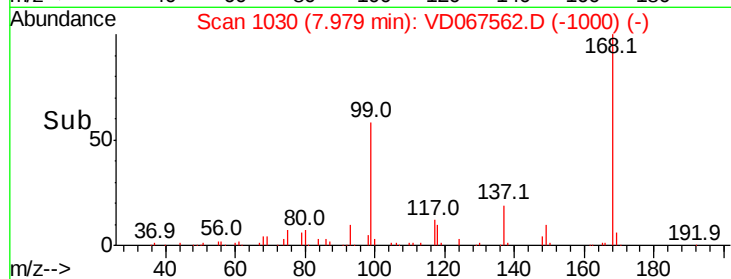
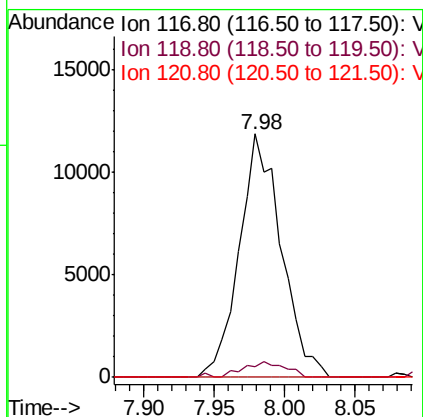
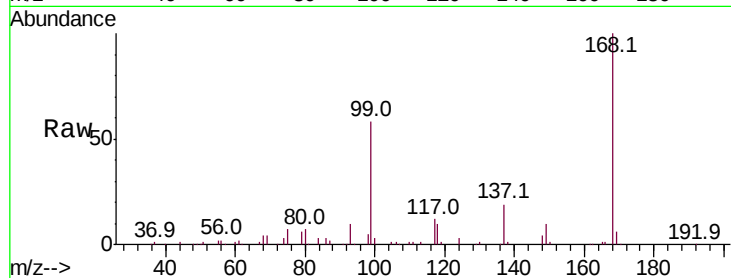




#38  
Carbon Tetrachloride  
Concen: 5.678 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD067562.D  
Acq: 09 Nov 2020 13:34

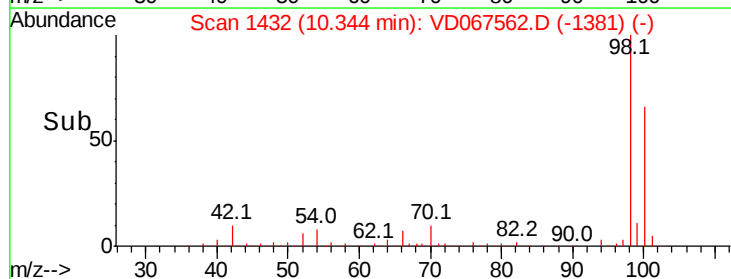
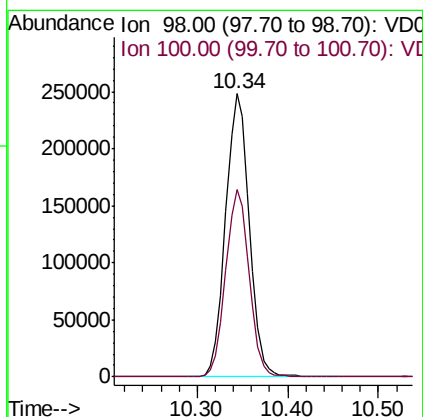
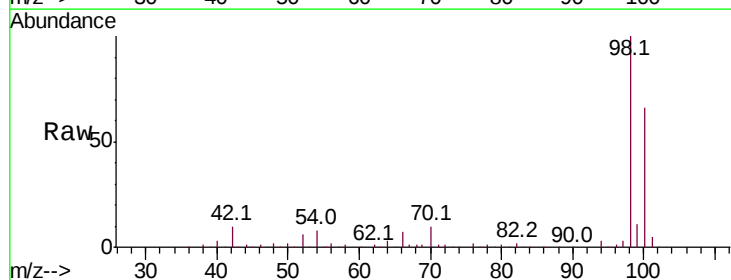
Instrument :  
MSVOA\_D  
ClientSampleId :

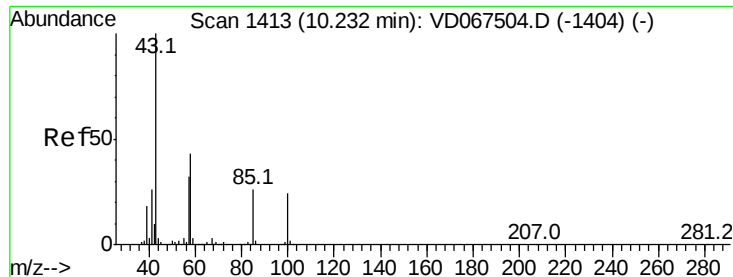
Tot Ion:117 Resp: 24679  
Ion Ratio Lower Upper  
117 100  
119 4.6 76.9 115.3#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 54.614 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD067562.D  
Acq: 09 Nov 2020 13:34

Tgt Ion: 98 Resp: 451886  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 2.431 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.12 min

Lab File: VD067562.D

Acq: 09 Nov 2020 13:34

Instrument :

MSVOA\_D

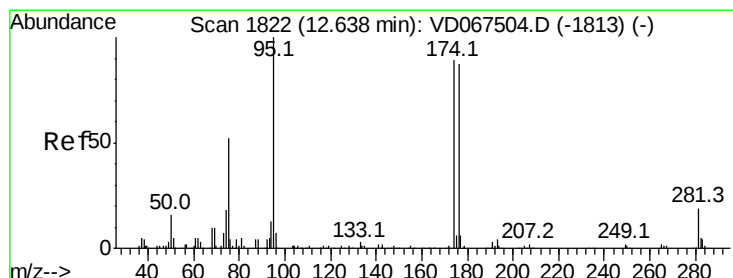
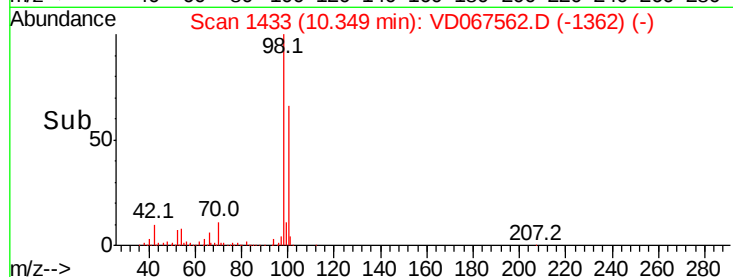
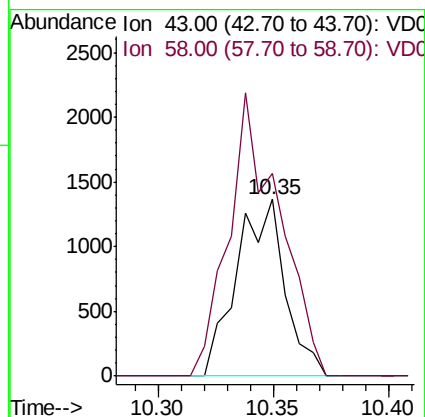
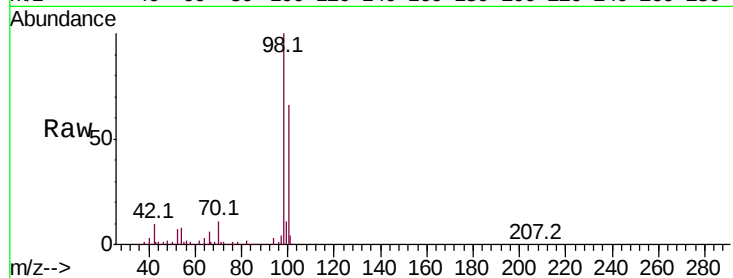
ClientSampleId :

Tot Ion: 43 Resp: 1997

Ion Ratio Lower Upper

43 100

58 166.0 35.6 53.4#



#62

4-Bromofluorobenzene

Concen: 53.061 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067562.D

Acq: 09 Nov 2020 13:34

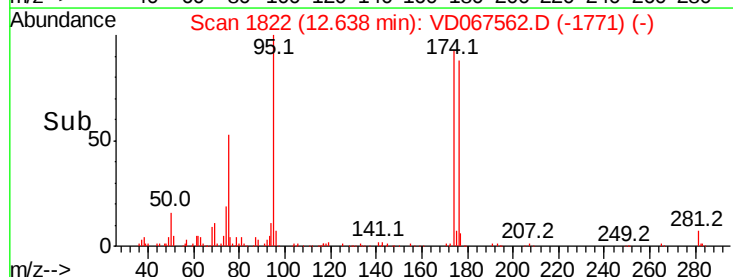
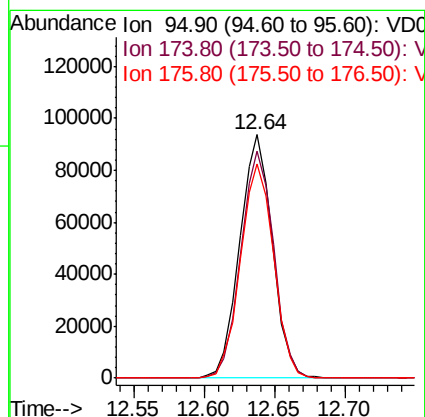
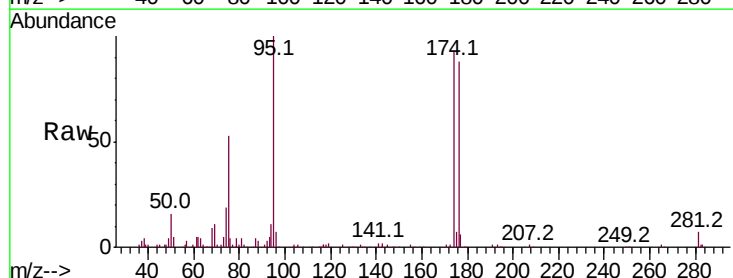
Tgt Ion: 95 Resp: 151577

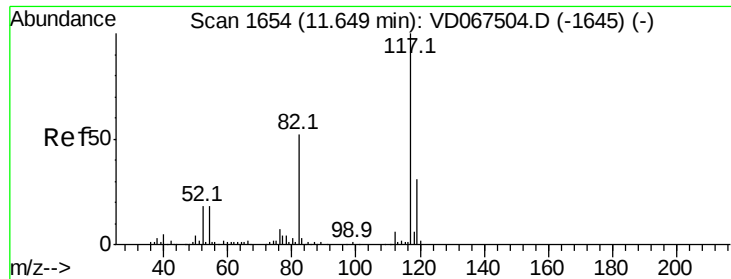
Ion Ratio Lower Upper

95 100

174 94.1 0.0 177.8

176 89.3 0.0 172.0

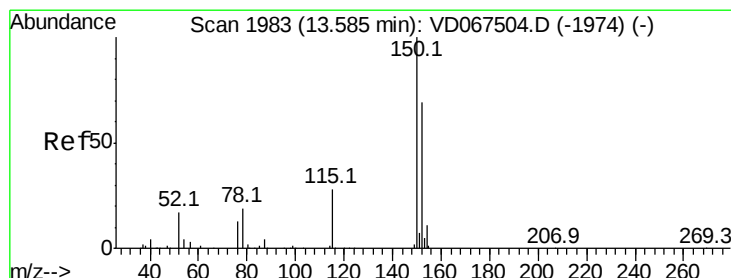
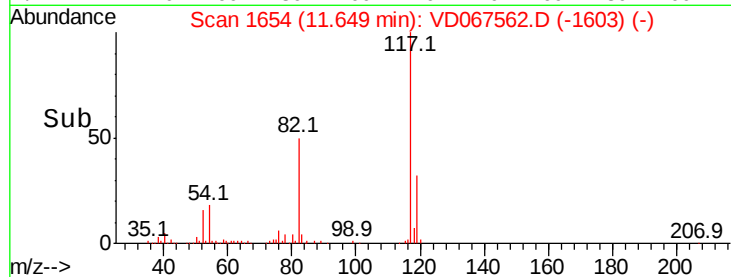
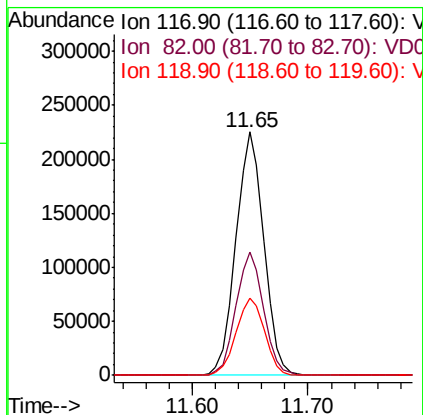
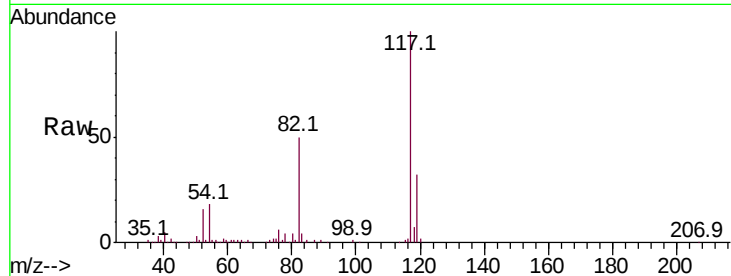




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD067562.D  
Acq: 09 Nov 2020 13:34

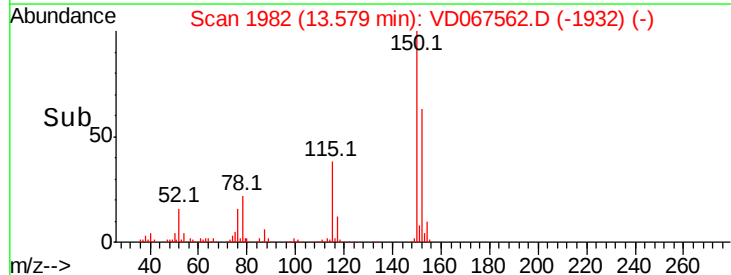
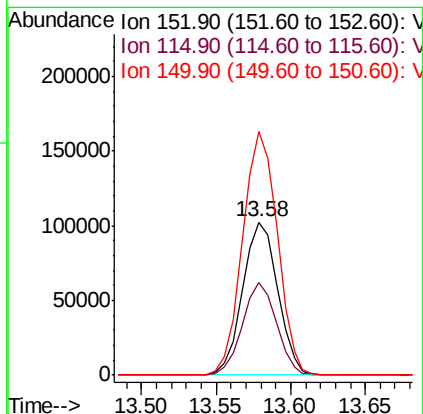
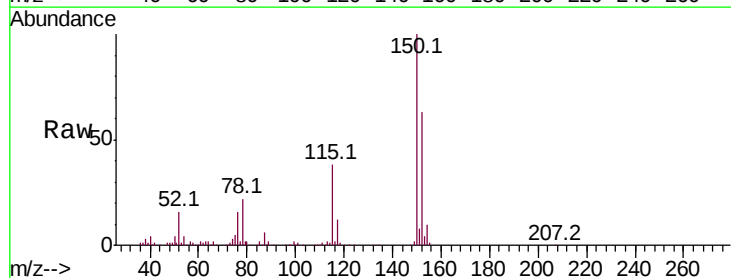
Instrument :  
MSVOA\_D  
ClientSampleId :

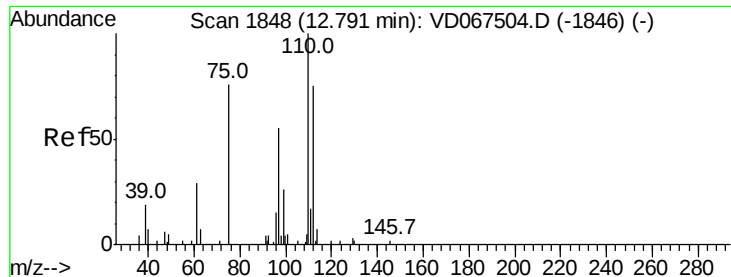
Tot Ion:117 Resp: 376774  
Ion Ratio Lower Upper  
117 100  
82 50.5 41.6 62.4  
119 31.9 25.1 37.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: VD067562.D  
Acq: 09 Nov 2020 13:34

Tgt Ion:152 Resp: 166688  
Ion Ratio Lower Upper  
152 100  
115 58.7 29.3 88.0  
150 157.7 0.0 338.2





#76

1,2,3-Trichloropropane

Concen: 79.850 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067562.D

Acq: 09 Nov 2020 13:34

Instrument :

MSVOA\_D

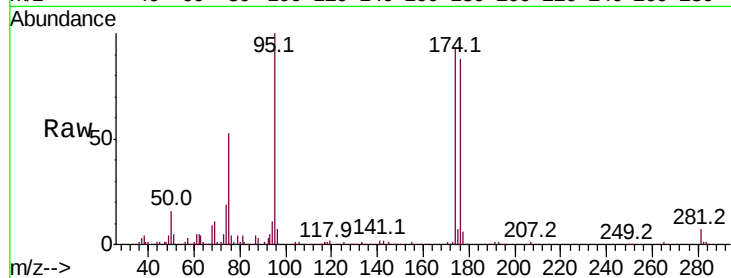
ClientSampleId :

Tot Ion: 75 Resp: 80294

Ion Ratio Lower Upper

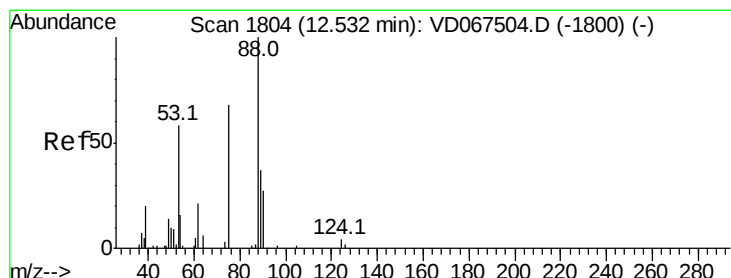
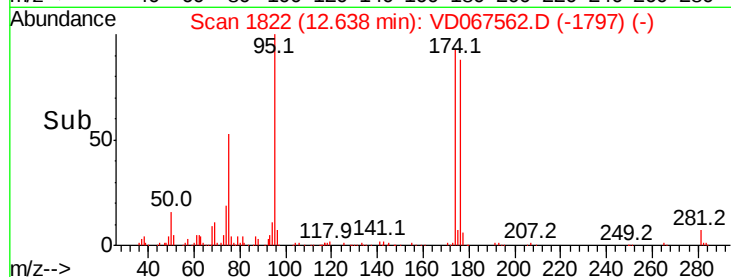
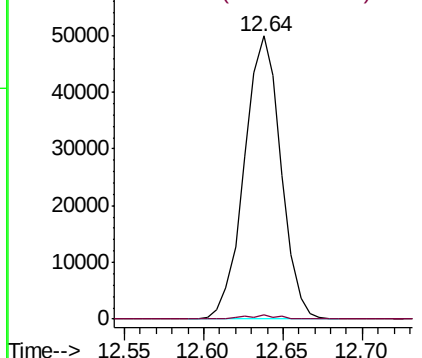
75 100

77 1.2 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: 162.117 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067562.D

Acq: 09 Nov 2020 13:34

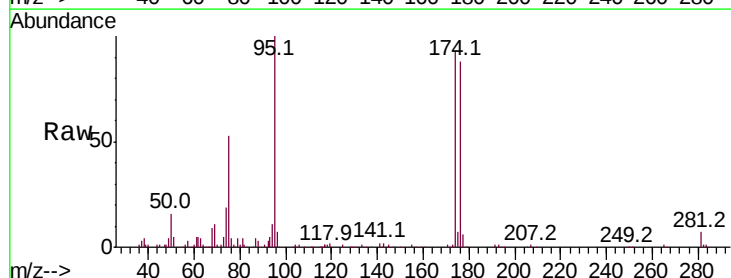
Tgt Ion: 75 Resp: 80294

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

89 0.0 44.6 67.0#



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

