

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060820\  
 Data File : VD065780.D  
 Acq On : 08 Jun 2020 15:03  
 Operator : VA/SY  
 Sample : L2815-01  
 Misc : 8.24G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-02-060520

Quant Time: Jun 09 06:24:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 05 13:07:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 228109   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 394993   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 352939   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 152534   | 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   | 133691   | 59.31  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 118.62% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 131246   | 52.60  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 105.20% |          |
| 50) Toluene-d8              | 10.34 | 98   | 493444   | 53.04  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.08% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 150170   | 47.59  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.18%  |          |

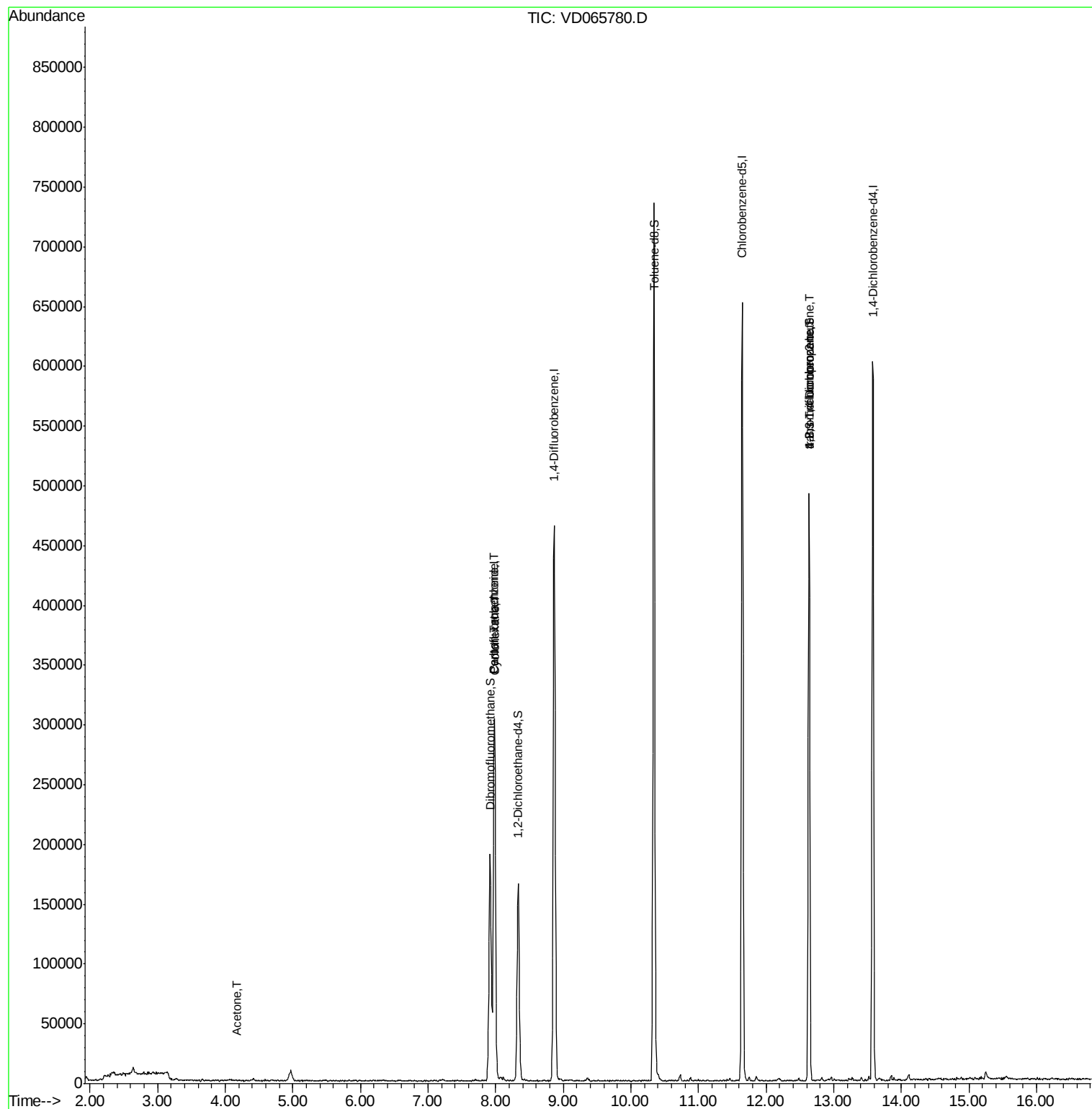
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 310      | Below Cal | #      | 42     |
| 3) Chloromethane               | 2.21  | 50   | 764      | Below Cal | #      | 69     |
| 16) Acetone                    | 4.16  | 43   | 795      | 1.870     | ug/l # | 47     |
| 18) Methyl Acetate             | 4.77  | 43   | 59       | Below Cal | #      | 52     |
| 20) Methylene Chloride         | 4.97  | 84   | 6497     | Below Cal | #      | 92     |
| 31) Cyclohexane                | 7.99  | 56   | 6161     | 1.524     | ug/l # | 59     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 23105    | 5.802     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 83802    | 70.643    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 83802    | 152.632   | ug/l # | 9      |

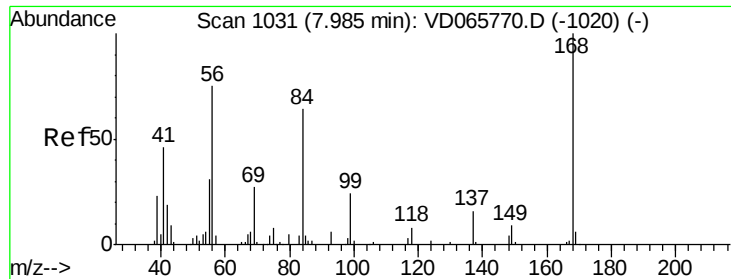
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD060820\  
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Sample : L2815-01  
Misc : 8.24G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Quant Time: Jun 09 06:24:09 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 05 13:07:30 2020  
Response via : Initial Calibration

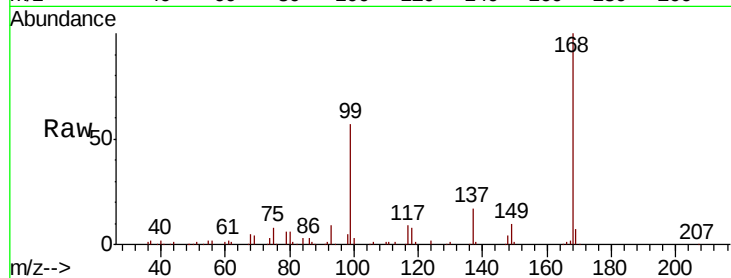




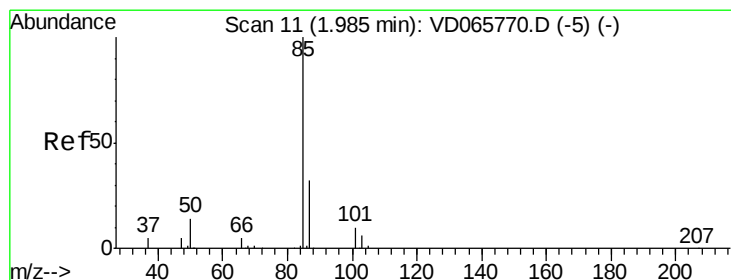
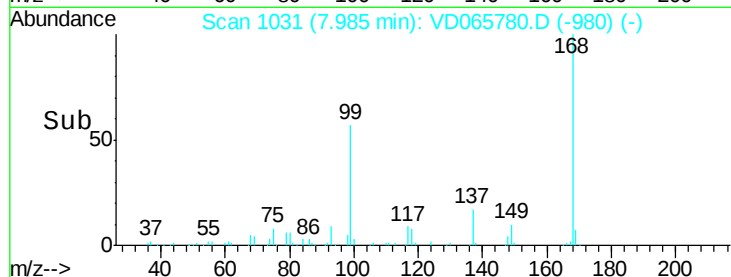
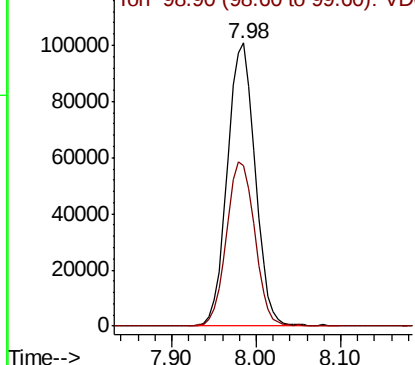
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-060520

Tot Ion:168 Resp: 228109  
Ion Ratio Lower Upper  
168 100  
99 56.9 45.3 67.9

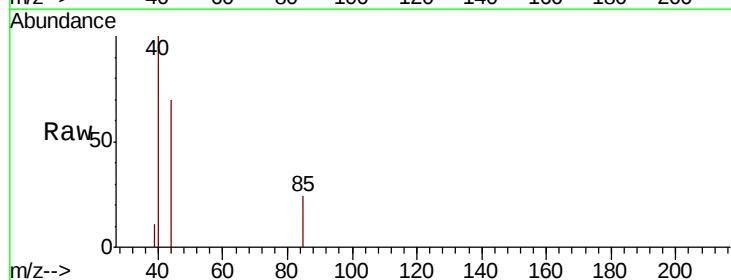


Abundance Ion 167.90 (167.60 to 168.60): V  
Ion 98.90 (98.60 to 99.60): VDC

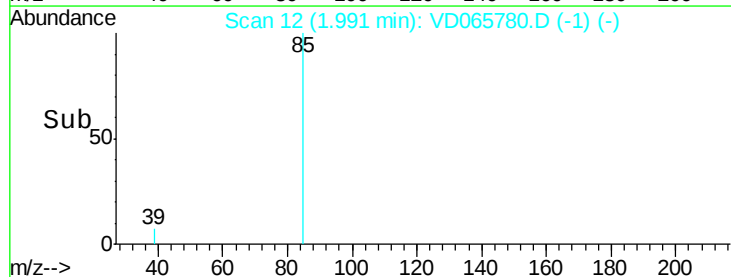
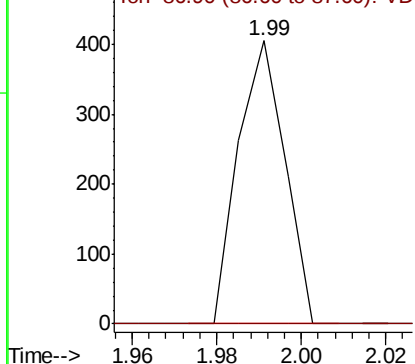


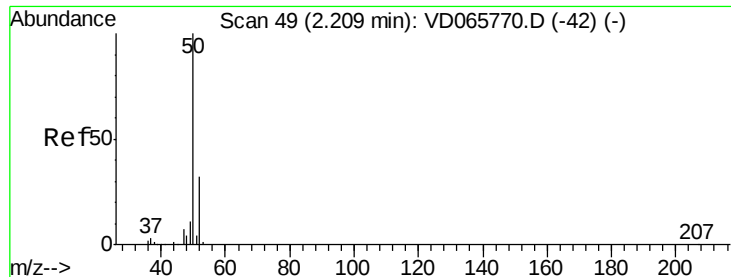
#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.99 min Scan# 12  
Delta R.T. 0.01 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

Tgt Ion: 85 Resp: 310  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC  
Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065780.D

Acq: 08 Jun 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

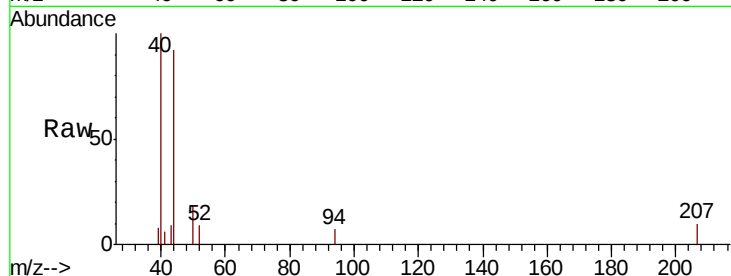
OR-02-060520

Tot Ion: 50 Resp: 764

Ion Ratio Lower Upper

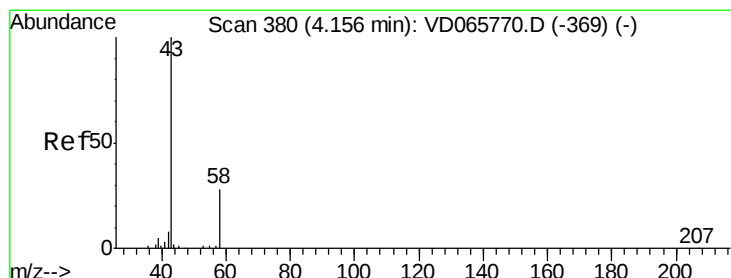
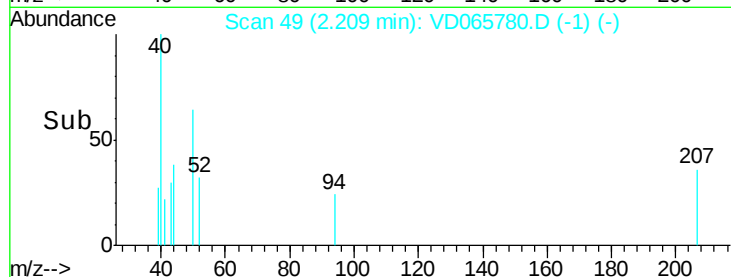
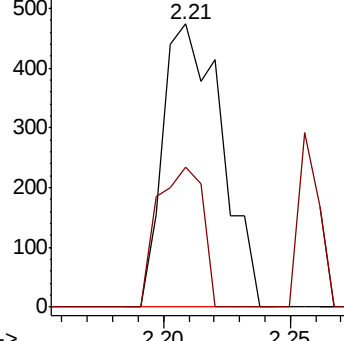
50 100

52 49.5 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#16

Acetone

Concen: 1.870 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065780.D

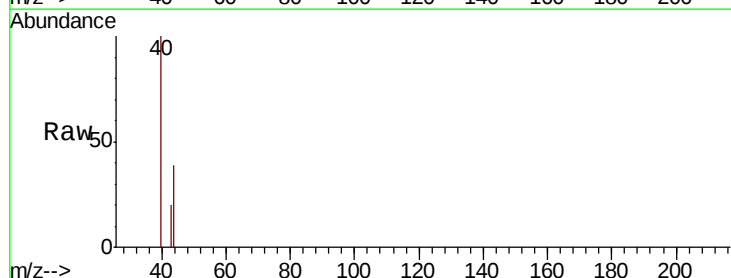
Acq: 08 Jun 2020 15:03

Tgt Ion: 43 Resp: 795

Ion Ratio Lower Upper

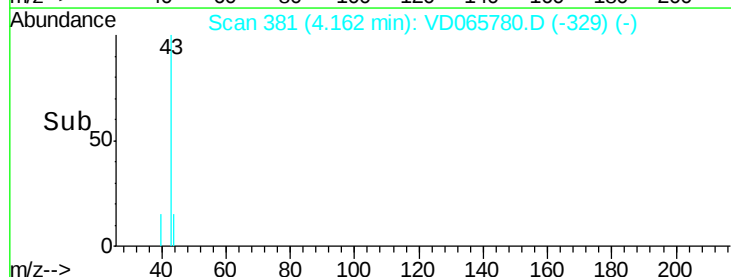
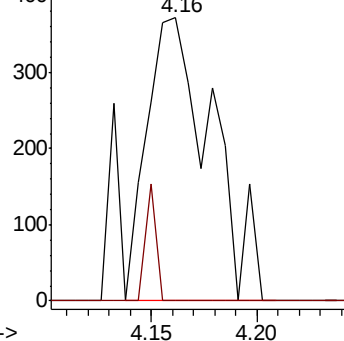
43 100

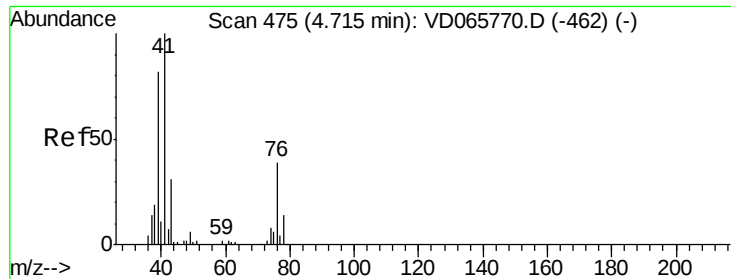
58 0.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

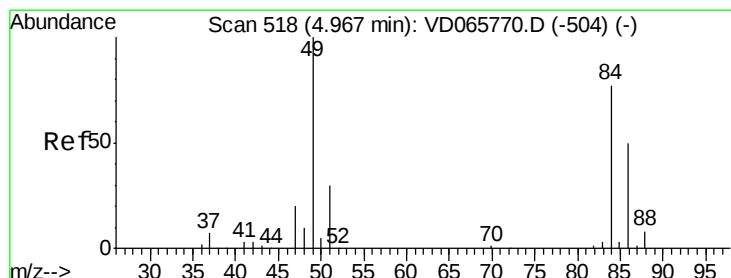
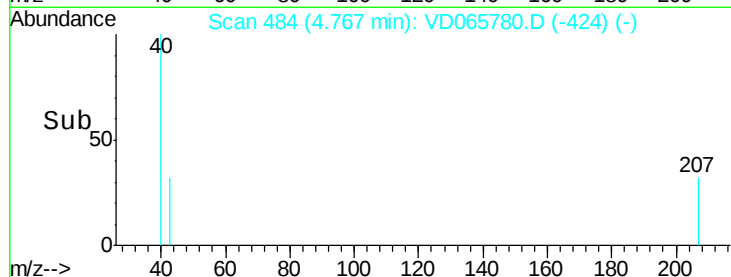
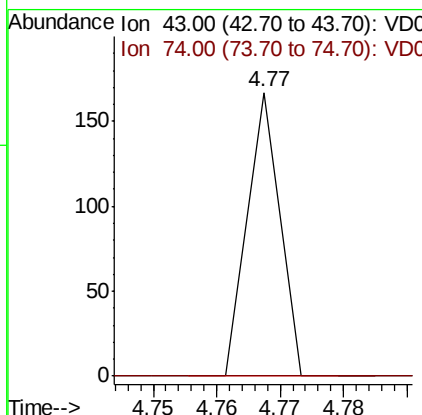
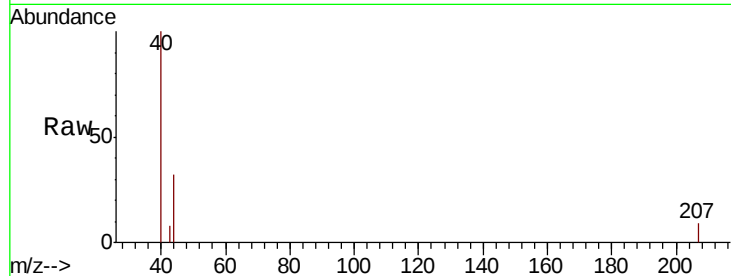




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.77 min Scan# 484  
Delta R.T. 0.05 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

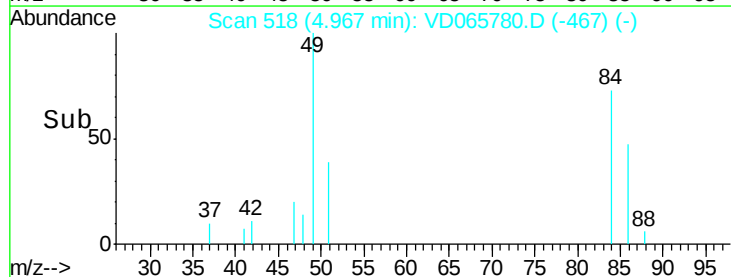
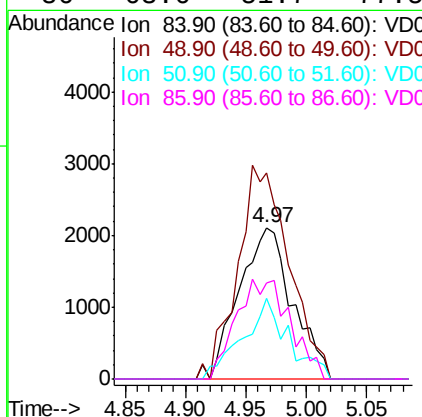
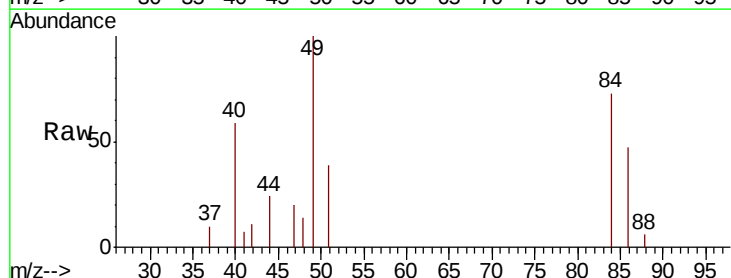
Instrument :  
MSVOA\_D  
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OR-02-060520

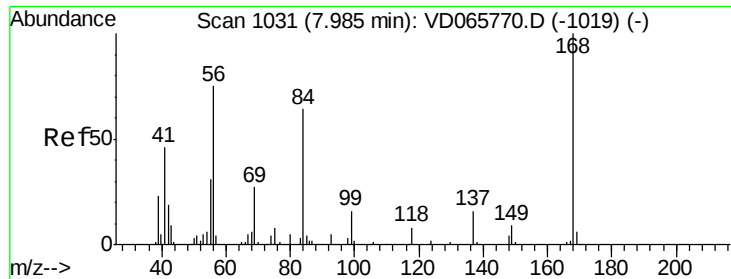
Tot Ion: 43 Resp: 59  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.7 28.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

Tgt Ion: 84 Resp: 6497  
Ion Ratio Lower Upper  
84 100  
49 136.6 103.4 155.0  
51 53.5 31.4 47.2#  
86 63.6 51.7 77.5

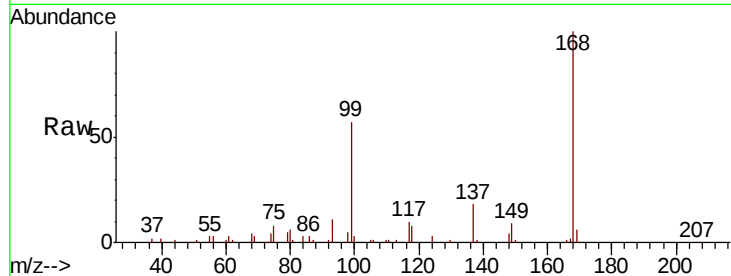




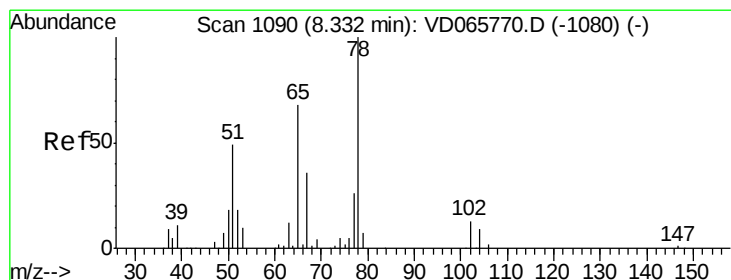
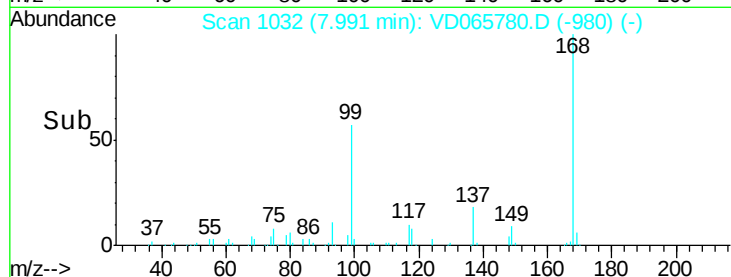
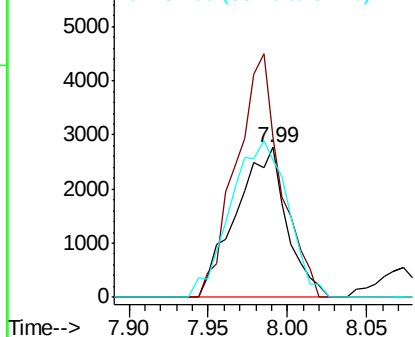
#31  
Cyclohexane  
Concen: 1.524 ug/l  
RT: 7.99 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-060520

Tot Ion: 56 Resp: 6161  
Ion Ratio Lower Upper  
56 100  
69 107.1 28.5 42.7#  
84 91.8 68.4 102.6

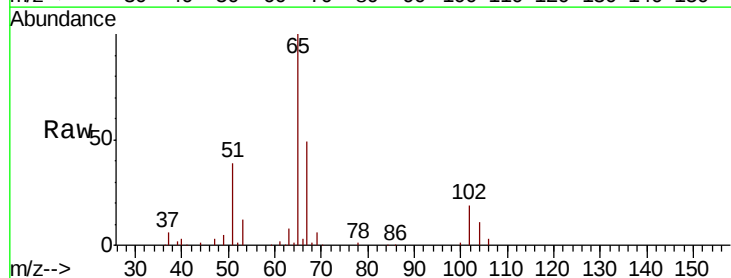


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

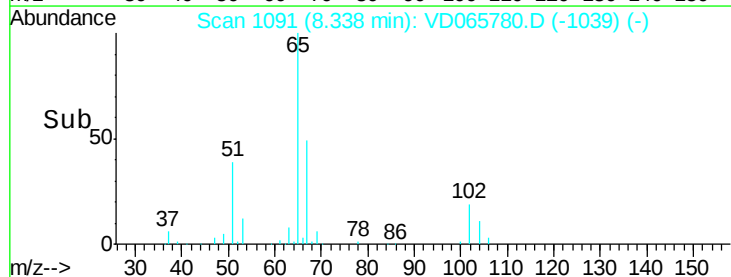
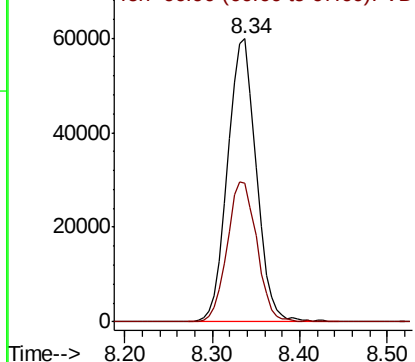


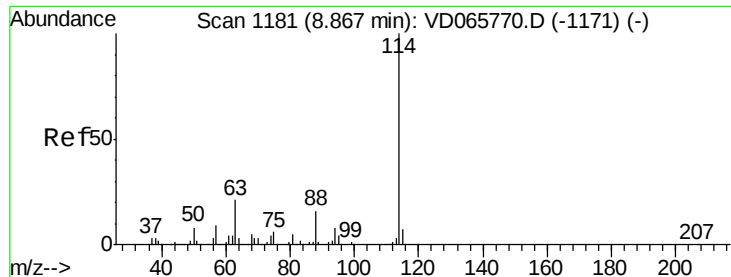
#33  
1,2-Dichloroethane-d4  
Concen: 59.312 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.01 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

Tgt Ion: 65 Resp: 133691  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 103.6



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

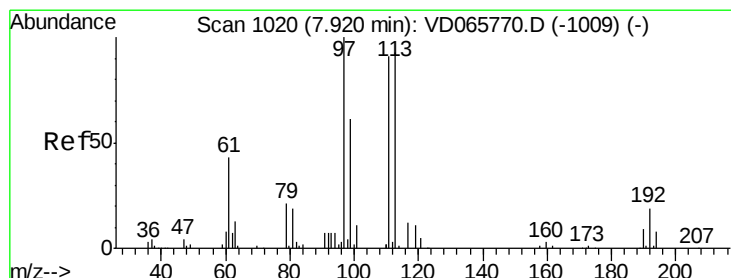
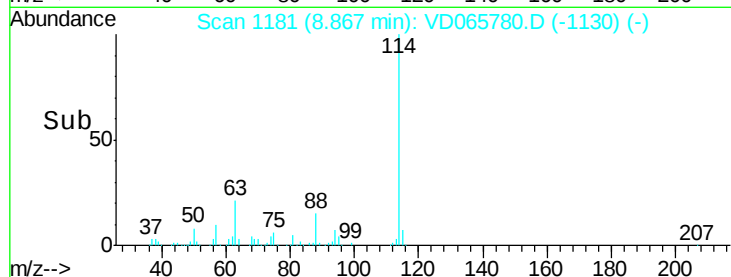
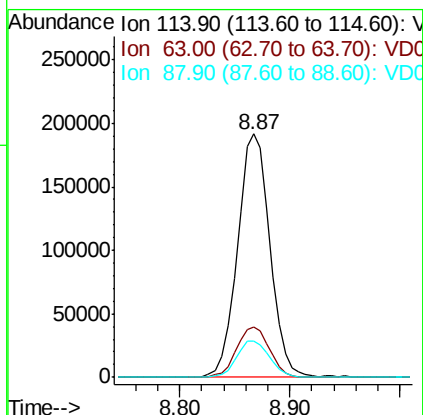
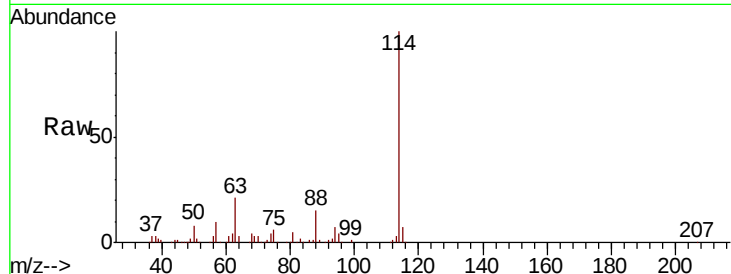




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065780.D  
 Acq: 08 Jun 2020 15:03

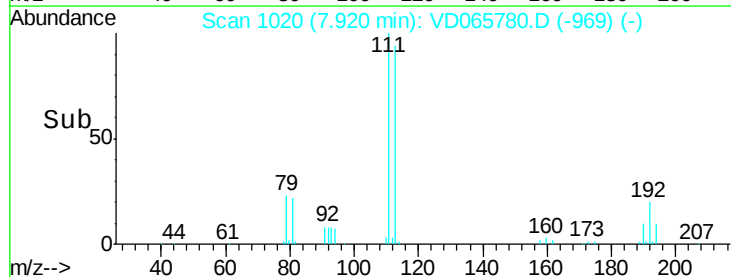
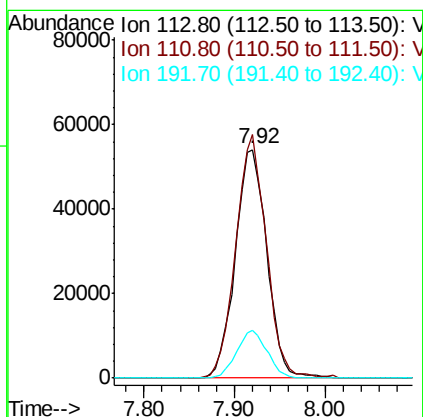
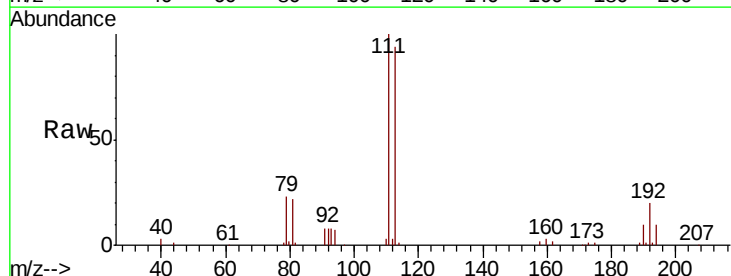
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-02-060520

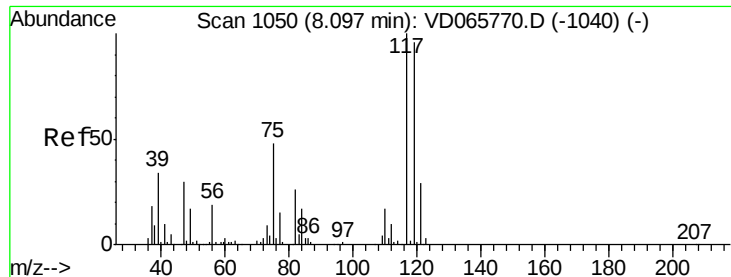
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 0.0   | 41.8  |
| 88      | 14.9  | 0.0   | 32.0  |



#35  
 Dibromofluoromethane  
 Concen: 52.603 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065780.D  
 Acq: 08 Jun 2020 15:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 83.4  | 125.0 |
| 192     | 19.9  | 15.7  | 23.5  |

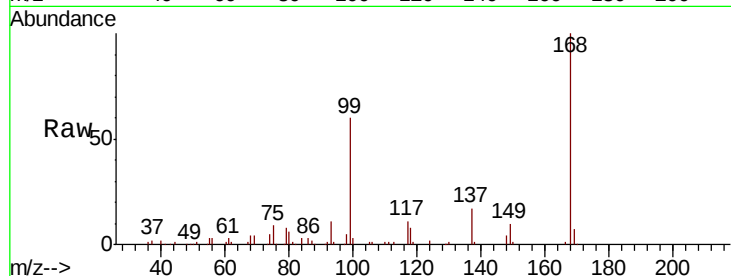




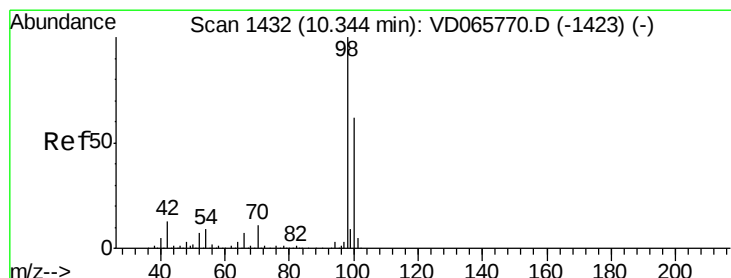
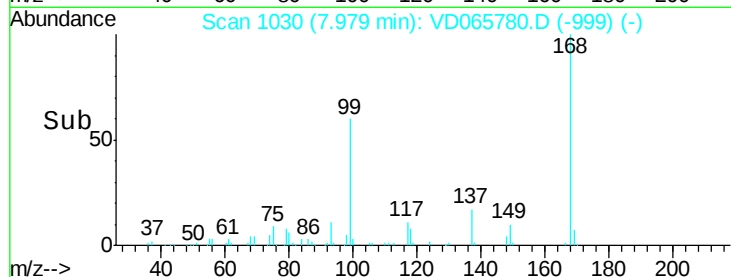
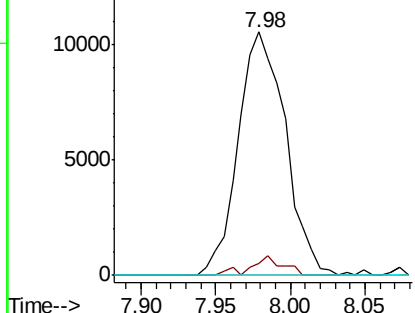
#38  
Carbon Tetrachloride  
Concen: 5.802 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-060520

Tot Ion:117 Resp: 23105  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.8 115.2#  
121 0.0 23.4 35.2#

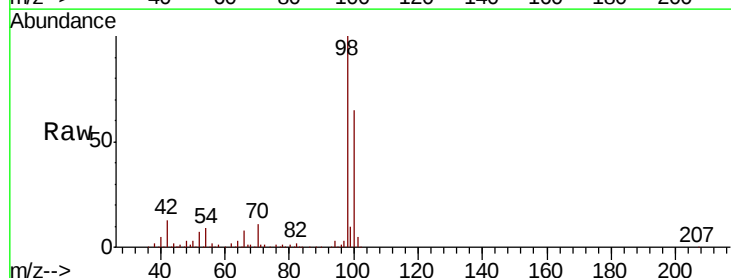


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

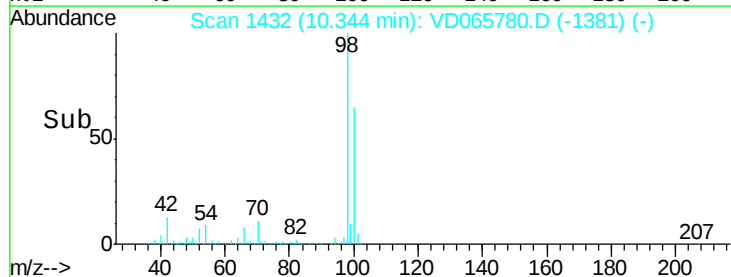
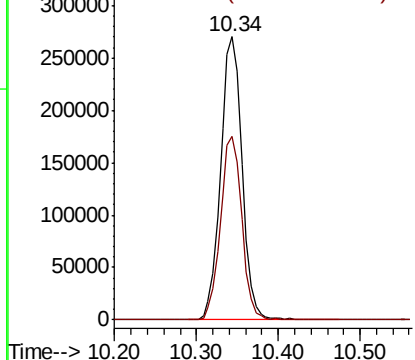


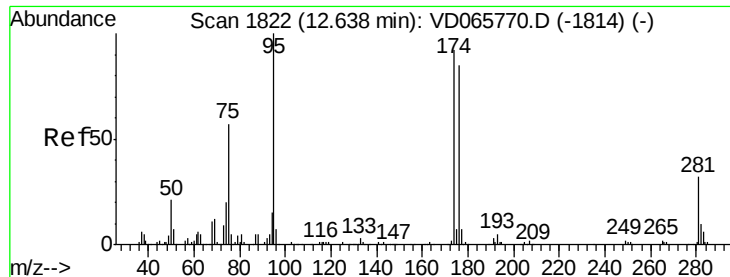
#50  
Toluene-d8  
Concen: 53.038 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD065780.D  
Acq: 08 Jun 2020 15:03

Tgt Ion: 98 Resp: 493444  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VD





#62

4-Bromofluorobenzene

Concen: 47.595 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065780.D

Acq: 08 Jun 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

OR-02-060520

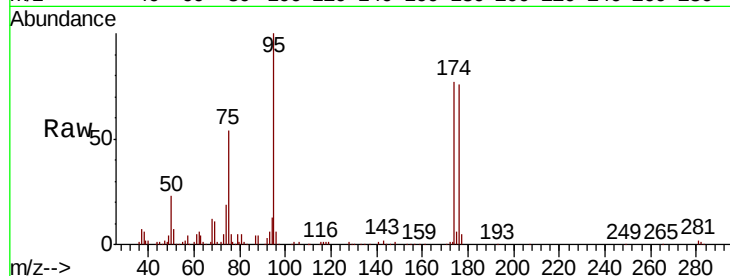
Tot Ion: 95 Resp: 150170

Ion Ratio Lower Upper

95 100

174 81.2 0.0 175.2

176 79.7 0.0 163.0



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

120000

100000

80000

60000

40000

20000

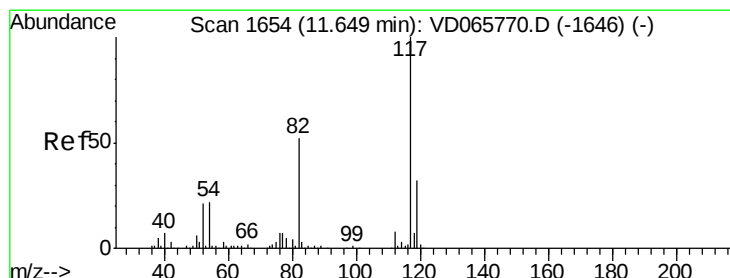
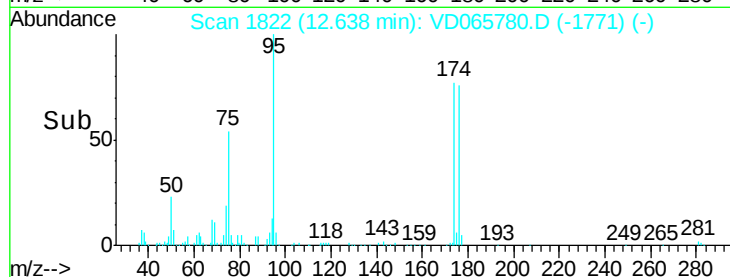
0

12.60

12.64

12.70

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065780.D

Acq: 08 Jun 2020 15:03

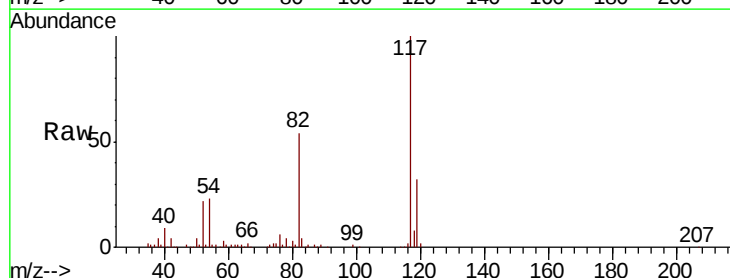
Tgt Ion: 117 Resp: 352939

Ion Ratio Lower Upper

117 100

82 54.4 41.9 62.9

119 32.0 25.3 37.9



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

250000

200000

150000

100000

50000

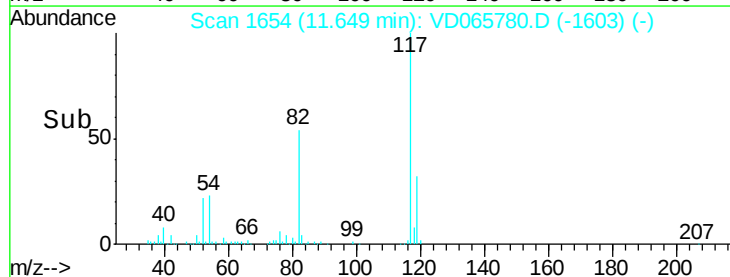
0

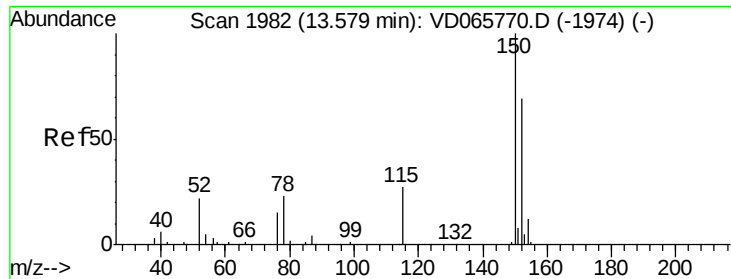
11.60

11.65

11.70

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD065780.D

Acq: 08 Jun 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

OR-02-060520

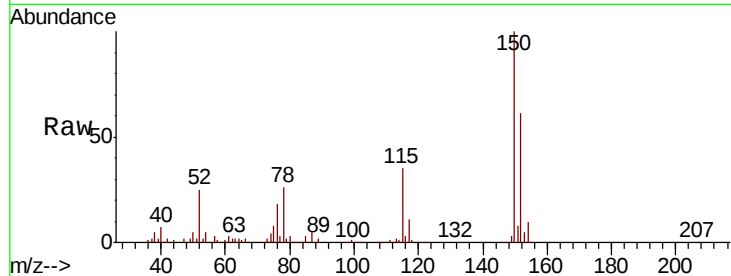
Tot Ion:152 Resp: 152534

Ion Ratio Lower Upper

152 100

115 59.0 28.7 86.1

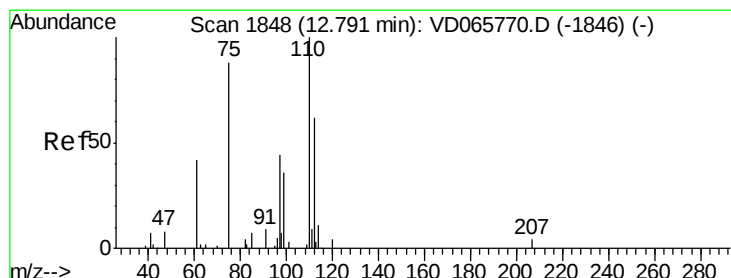
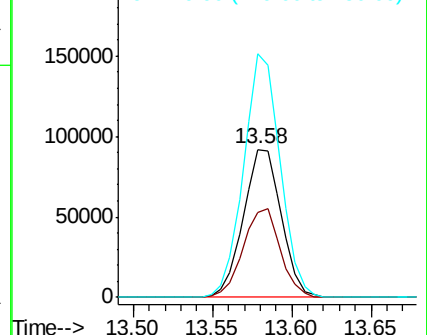
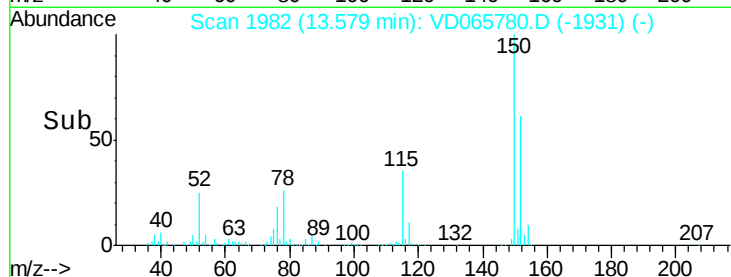
150 158.7 0.0 348.0



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: 70.643 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065780.D

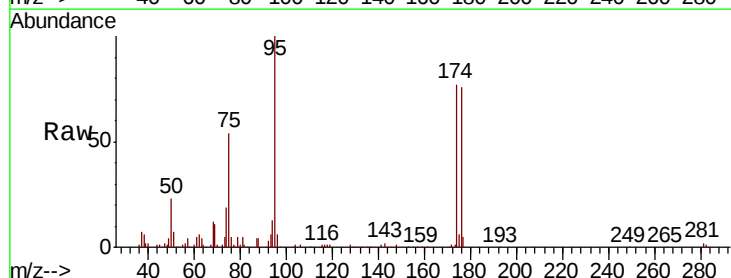
Acq: 08 Jun 2020 15:03

Tgt Ion: 75 Resp: 83802

Ion Ratio Lower Upper

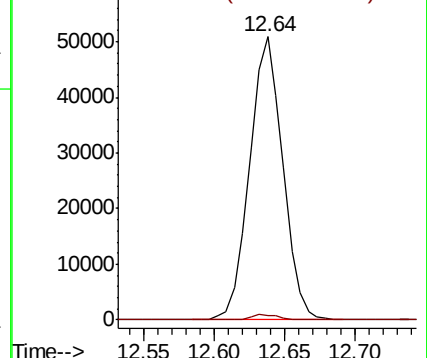
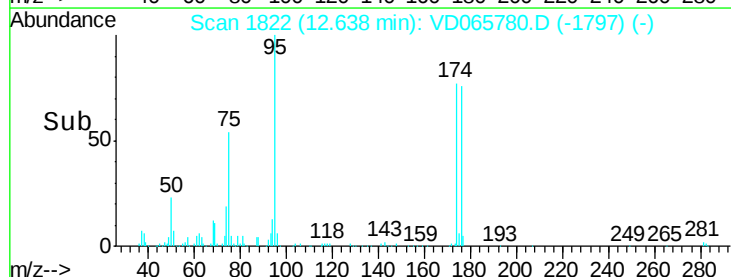
75 100

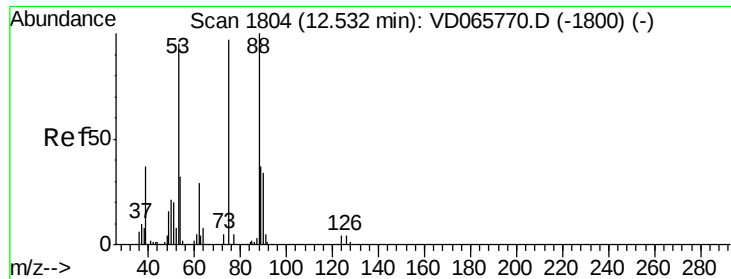
77 1.6 0.0 0.0#



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: 152.632 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065780.D

Acq: 08 Jun 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

OR-02-060520

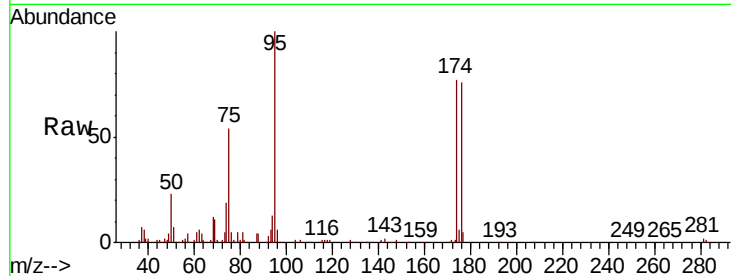
Tot Ion: 75 Resp: 83802

Ion Ratio Lower Upper

75 100

53 0.1 82.6 123.8#

89 0.0 35.9 53.9#



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

