

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021120\  
 Data File : VD065146.D  
 Acq On : 11 Feb 2020 16:08  
 Operator : VA/SY  
 Sample : L1491-01  
 Misc : 8.31G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 12 06:58:05 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

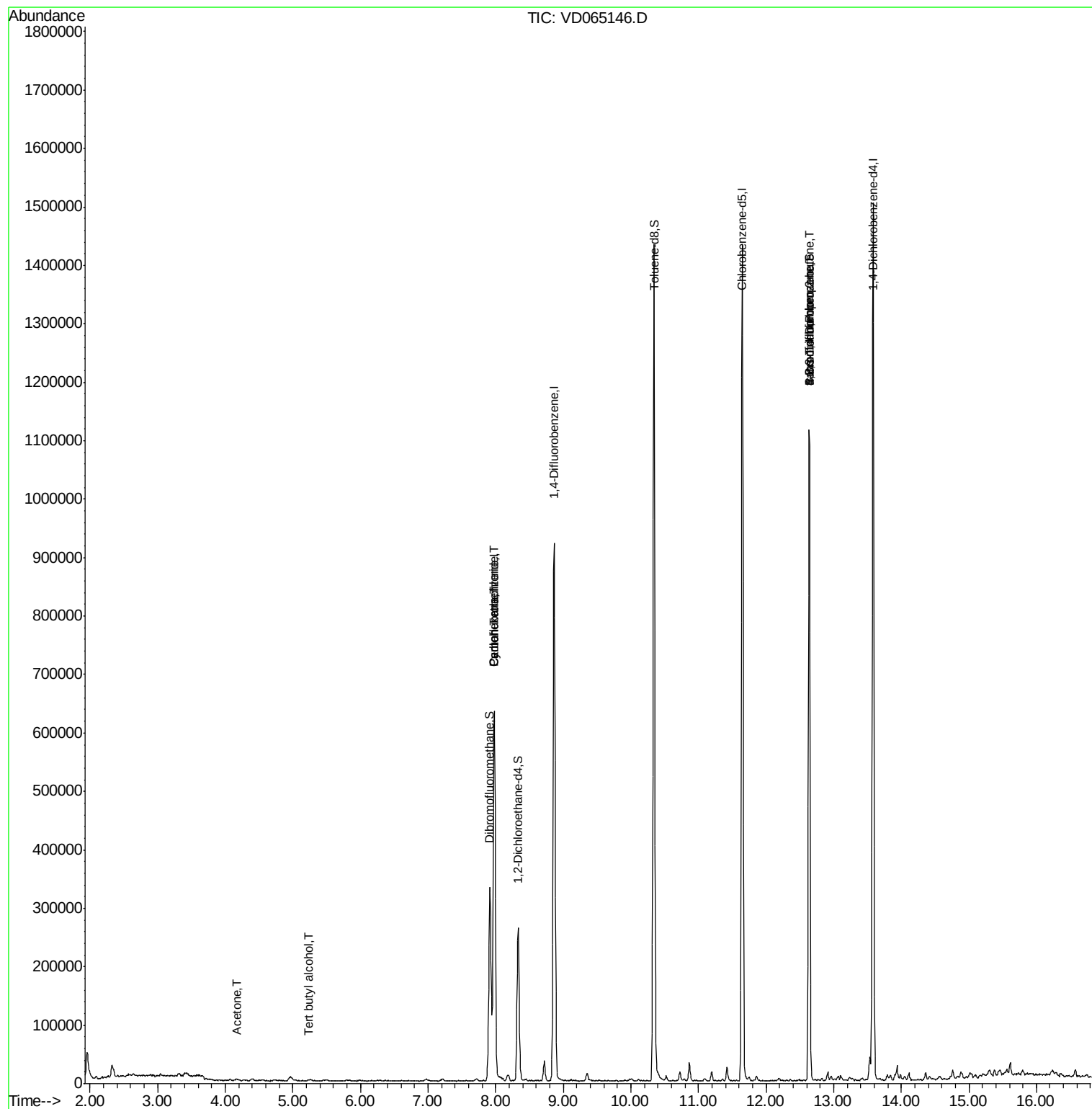
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 492433   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 801172   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 815986   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 396840   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 210645   | 50.33     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.66% |          |
| 35) Dibromofluoromethane       | 7.91  | 113  | 236311   | 52.87     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.74% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 971364   | 54.60     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.20% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 345886   | 61.35     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 122.70% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 5.23  | 59   | 2362     | 9.237     | ug/l #  | 71       |
| 16) Acetone                    | 4.17  | 43   | 4118     | 3.935     | ug/l #  | 71       |
| 20) Methylene Chloride         | 4.97  | 84   | 4884     | Below Cal | #       | 82       |
| 31) Cyclohexane                | 7.97  | 56   | 12946    | 1.555     | ug/l #  | 33       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 44928    | 5.905     | ug/l #  | 16       |
| 71) Bromoform                  | 12.64 | 173  | 3249     | 1.036     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 175934   | 58.557    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 175934   | 117.109   | ug/l #  | 10       |

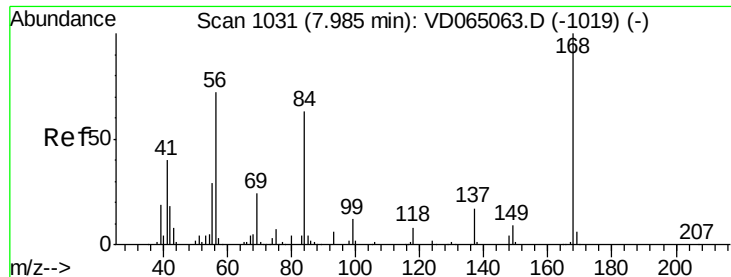
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD021120\  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :

Quant Time: Feb 12 06:58:05 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# 1030

Delta R.T. -0.01 min

Lab File: VD065146.D

Acq: 11 Feb 2020 16:08

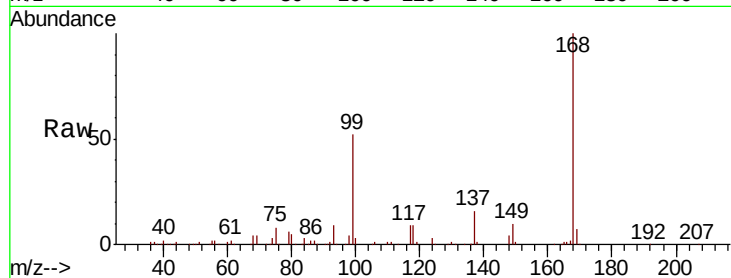
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 492433

Ion Ratio Lower Upper

168 100

99 51.9 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

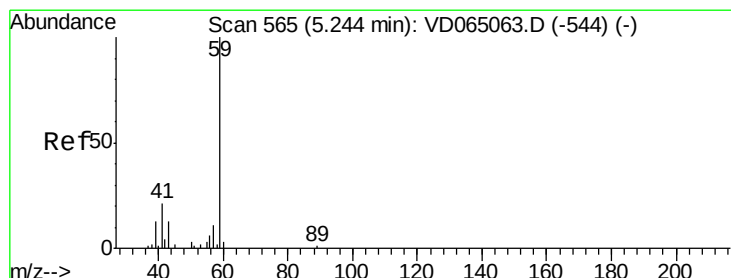
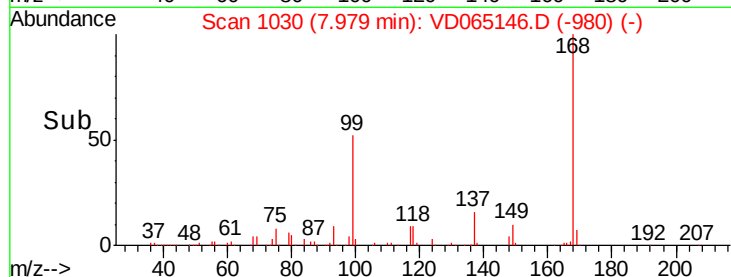
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 9.237 ug/l

RT: 5.23 min Scan# 563

Delta R.T. -0.01 min

Lab File: VD065146.D

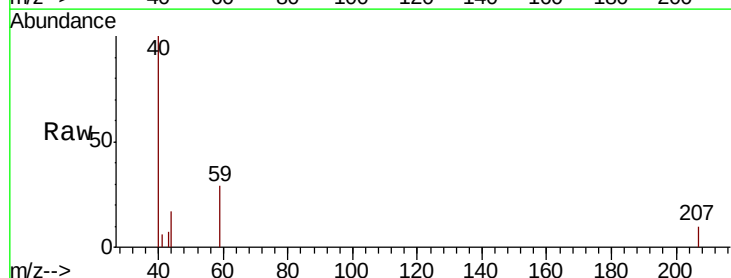
Acq: 11 Feb 2020 16:08

Tgt Ion: 59 Resp: 2362

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

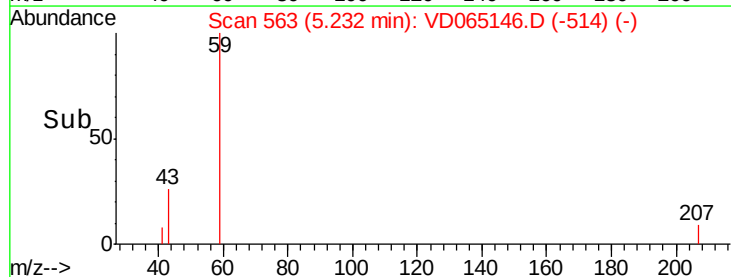
1500

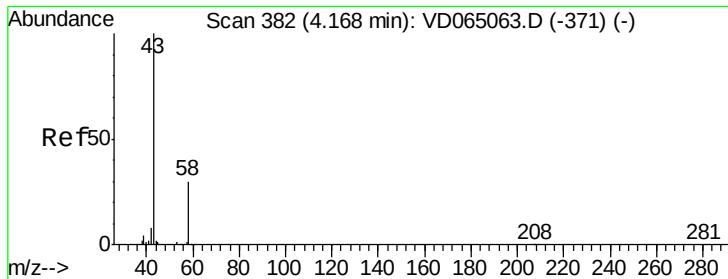
1000

500

0

Time-->

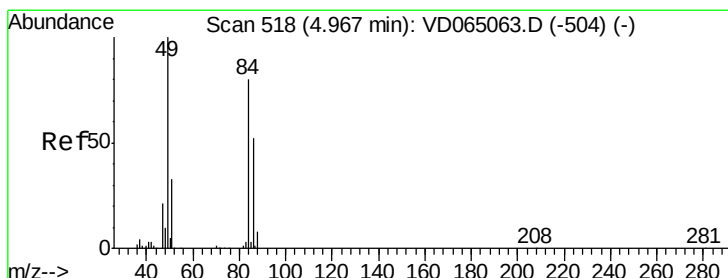
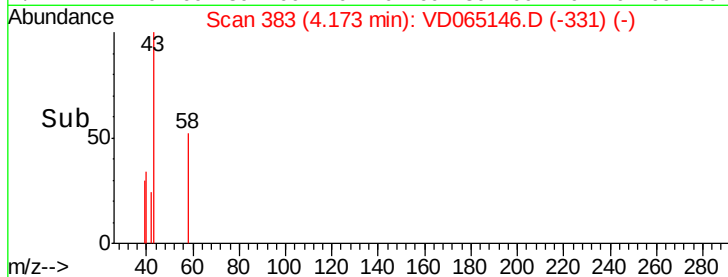
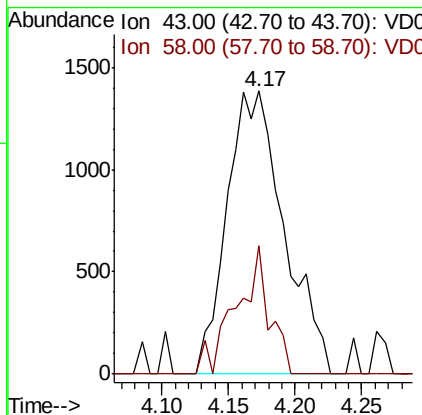
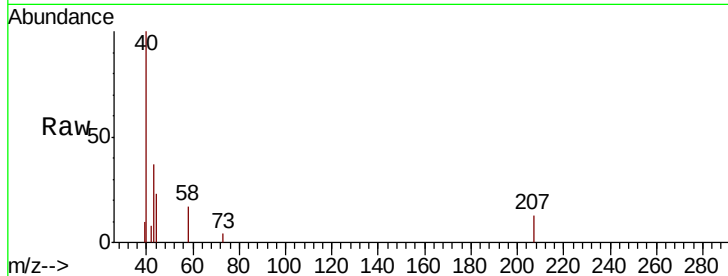




#16  
Acetone  
Concen: 3.935 ug/l  
RT: 4.17 min Scan# 383  
Delta R.T. 0.01 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

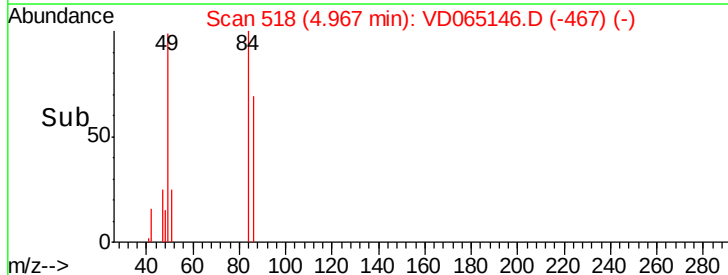
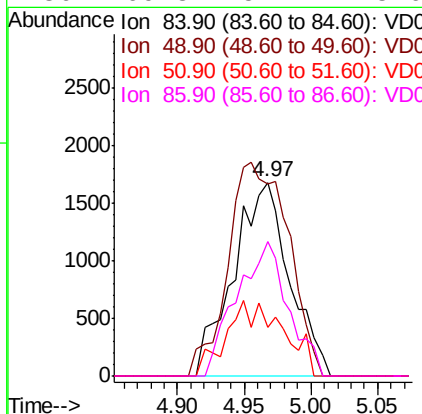
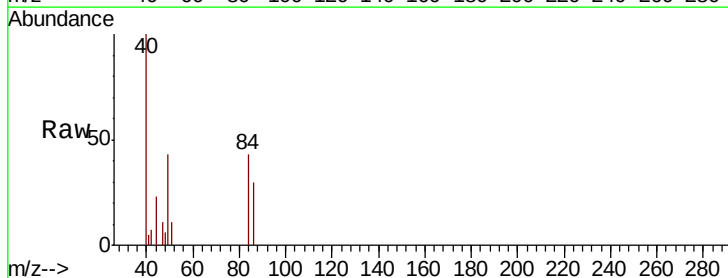
Instrument :  
MSVOA\_D  
ClientSampleId :

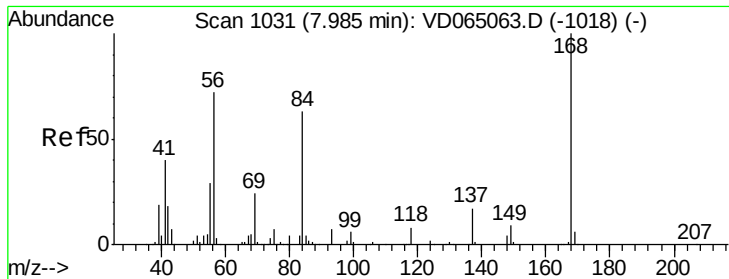
Tot Ion: 43 Resp: 4118  
Ion Ratio Lower Upper  
43 100  
58 45.2 23.5 35.3#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

Tgt Ion: 84 Resp: 4884  
Ion Ratio Lower Upper  
84 100  
49 98.9 100.4 150.6#  
51 25.2 32.7 49.1#  
86 69.3 52.4 78.6

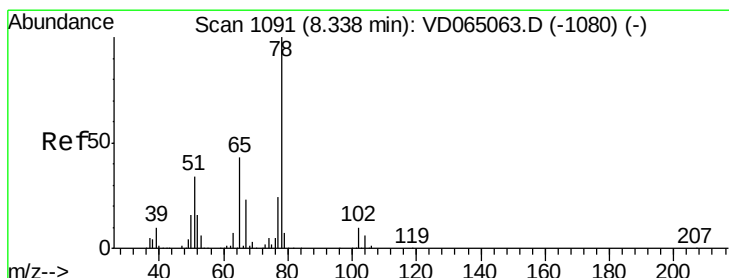
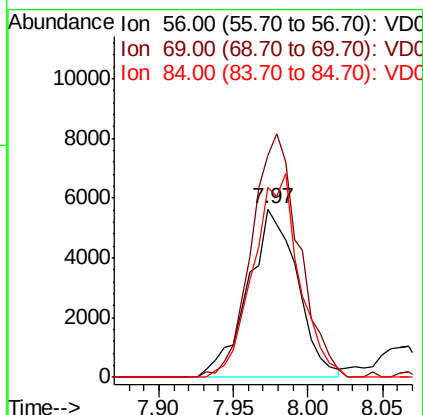
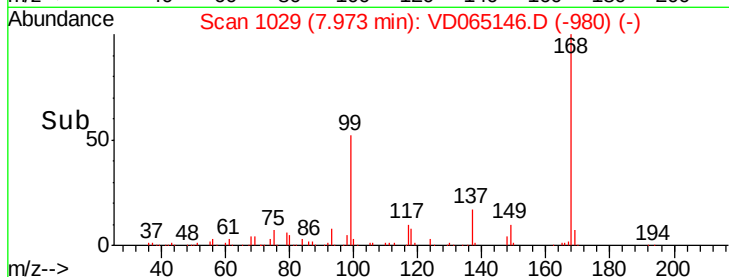
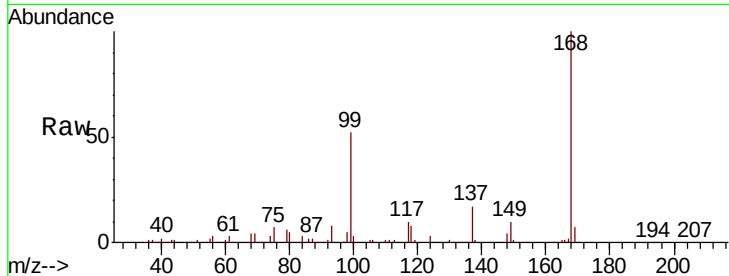




#31  
Cyclohexane  
Concen: 1.555 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

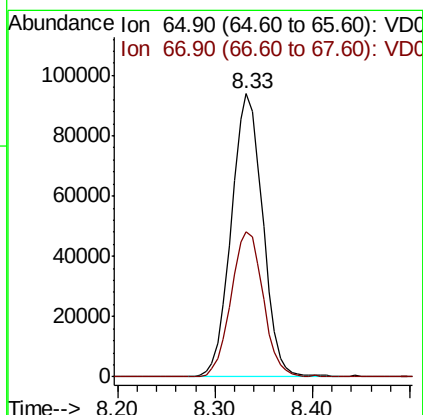
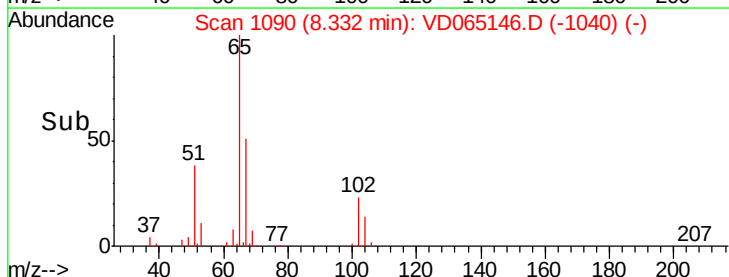
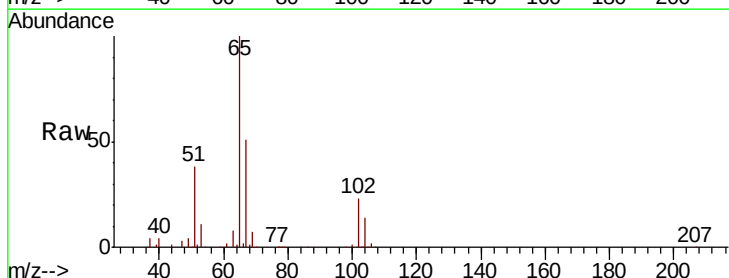
Instrument :  
MSVOA\_D  
ClientSampled :

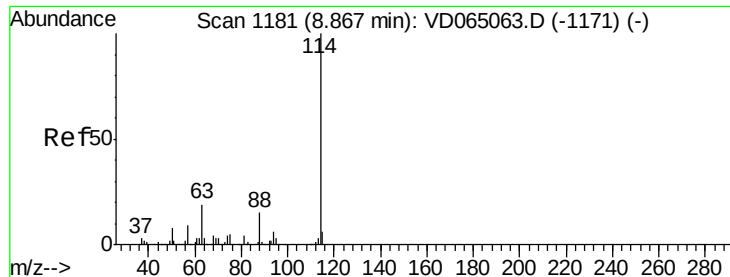
Tot Ion: 56 Resp: 12946  
Ion Ratio Lower Upper  
56 100  
69 132.0 26.6 40.0#  
84 112.7 70.6 106.0#



#33  
1,2-Dichloroethane-d4  
Concen: 50.330 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

Tgt Ion: 65 Resp: 210645  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 105.8

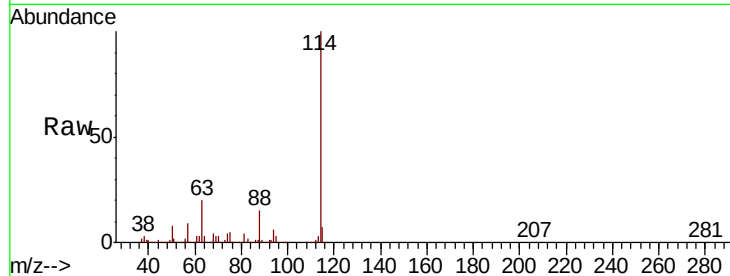




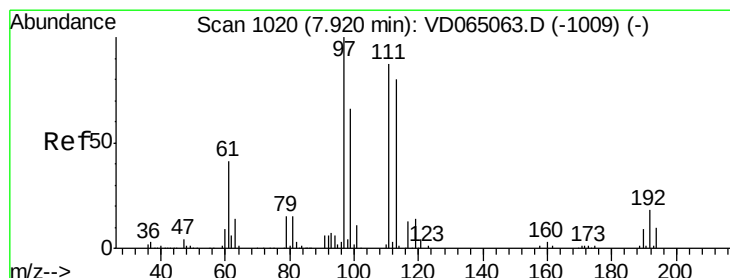
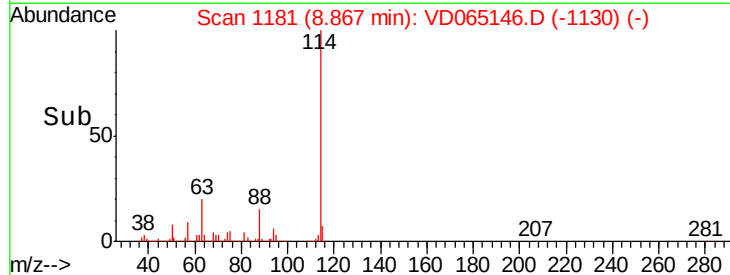
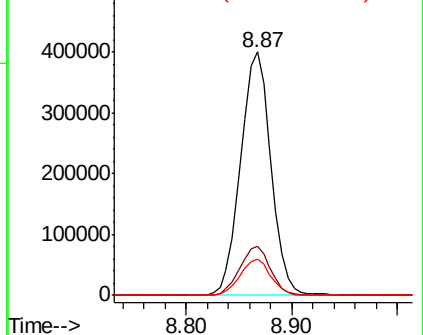
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065146.D  
 Acq: 11 Feb 2020 16:08

Instrument :  
 MSVOA\_D  
 ClientSampled :

Tot Ion:114 Resp: 801172  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 38.8  
 88 14.9 0.0 29.6

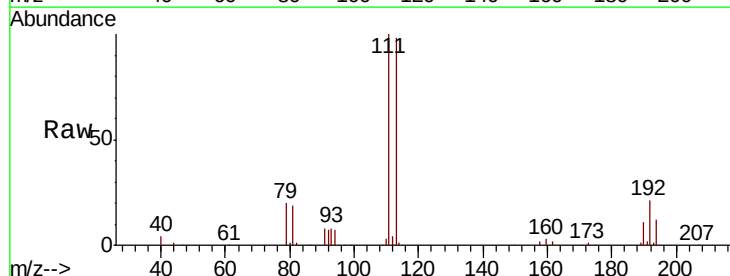


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

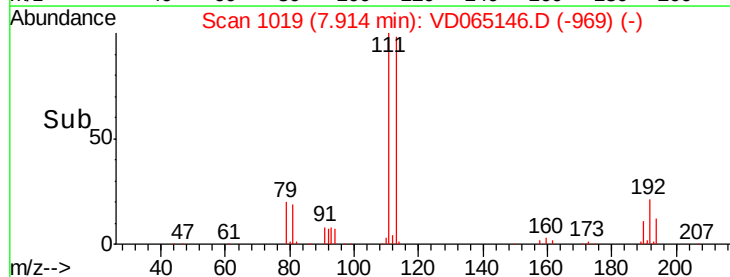
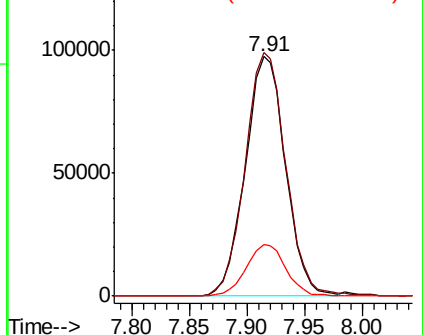


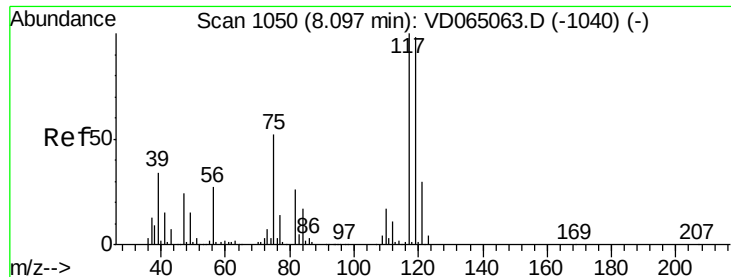
#35  
 Dibromofluoromethane  
 Concen: 52.865 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: VD065146.D  
 Acq: 11 Feb 2020 16:08

Tgt Ion:113 Resp: 236311  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 83.1 124.7  
 192 21.3 18.1 27.1



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

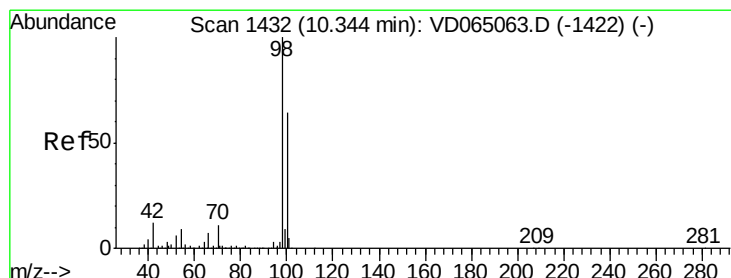
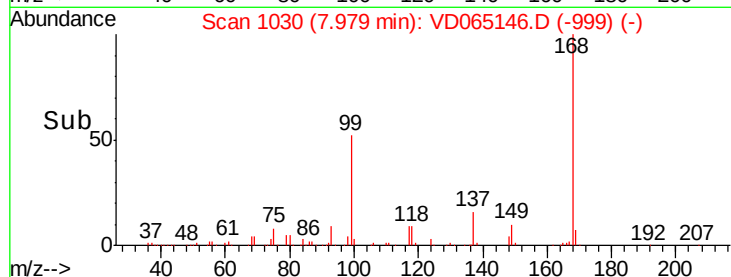
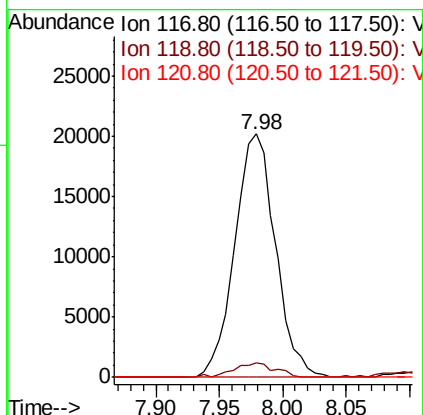
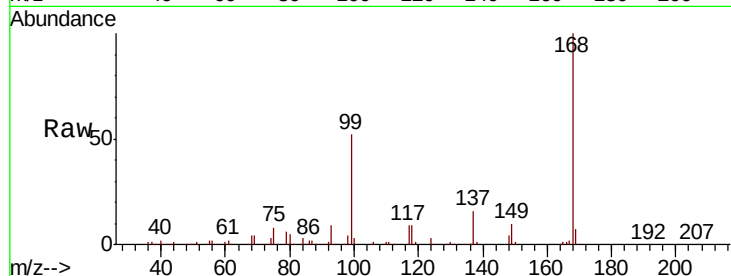




#38  
Carbon Tetrachloride  
Concen: 5.905 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

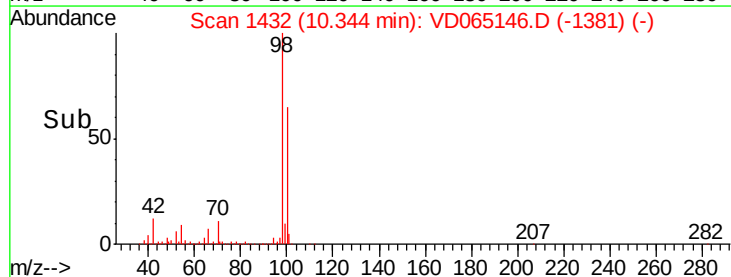
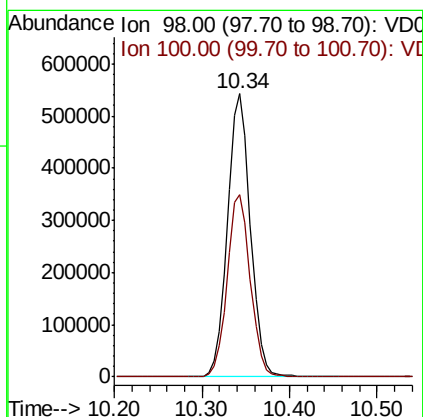
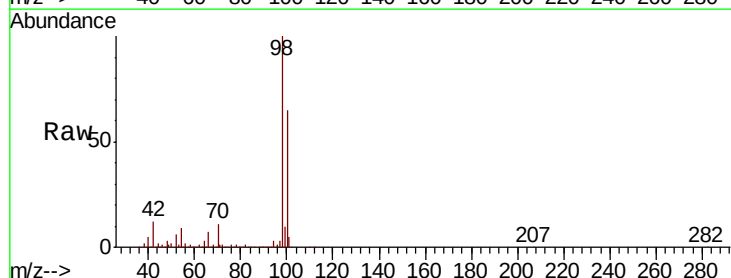
Instrument :  
MSVOA\_D  
ClientSampleId :

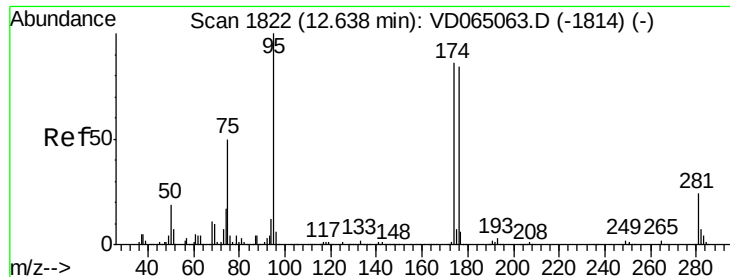
Tot Ion:117 Resp: 44928  
Ion Ratio Lower Upper  
117 100  
119 6.0 78.5 117.7#  
121 0.0 23.8 35.6#



#50  
Toluene-d8  
Concen: 54.595 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

Tgt Ion: 98 Resp: 971364  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.1 78.1

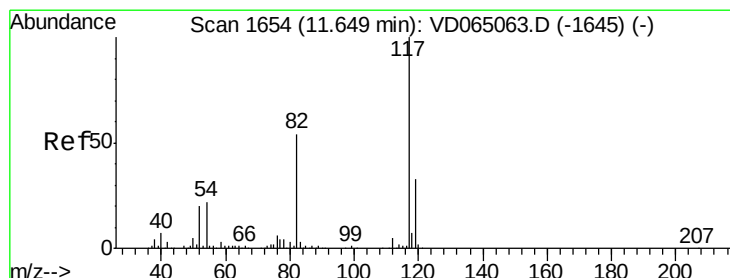
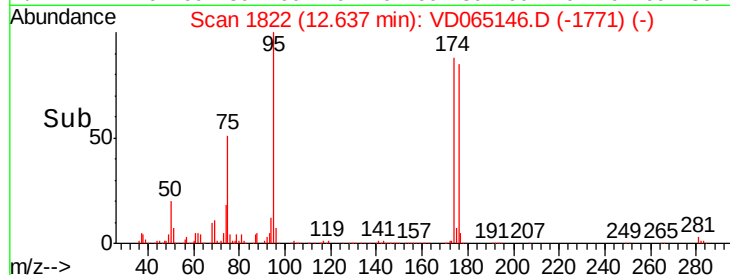
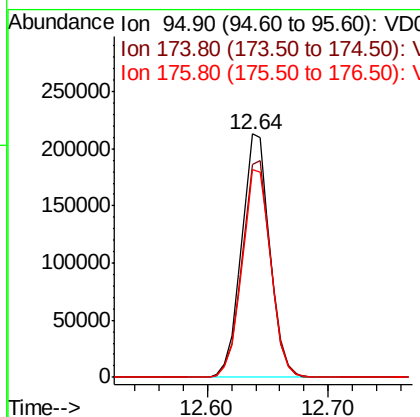
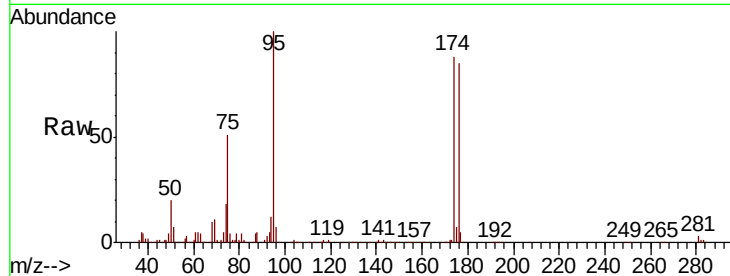




#62  
4-Bromofluorobenzene  
Concen: 61.353 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

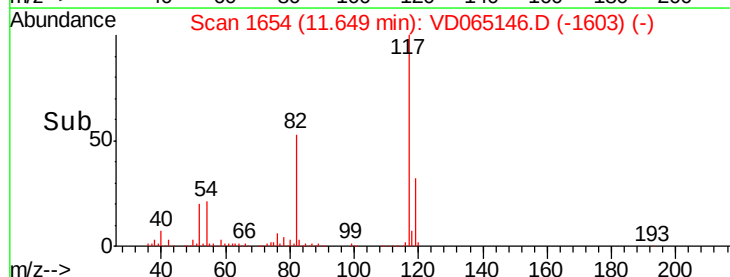
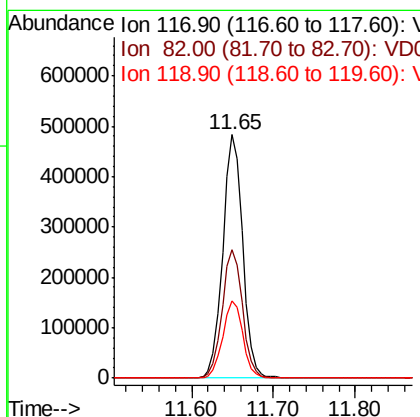
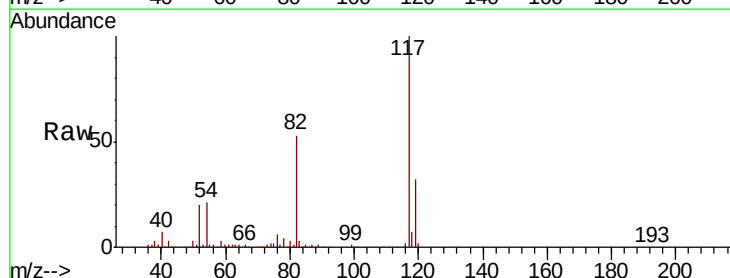
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 345886  
Ion Ratio Lower Upper  
95 100  
174 90.5 0.0 180.0  
176 87.4 0.0 173.2

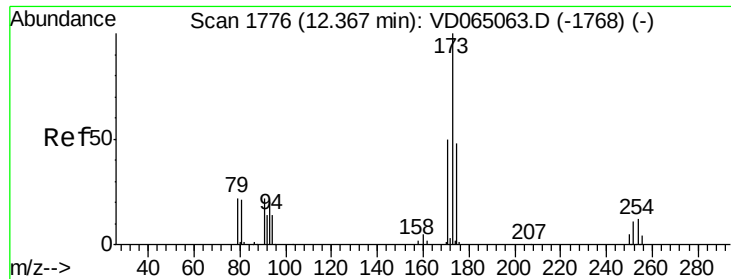


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD065146.D  
Acq: 11 Feb 2020 16:08

Tgt Ion: 117 Resp: 815986  
Ion Ratio Lower Upper  
117 100  
82 52.9 43.1 64.7  
119 31.6 26.0 39.0







#71

Bromoform

Concen: 1.036 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD065146.D

Acq: 11 Feb 2020 16:08

Instrument :

MSVOA\_D

ClientSampleId :

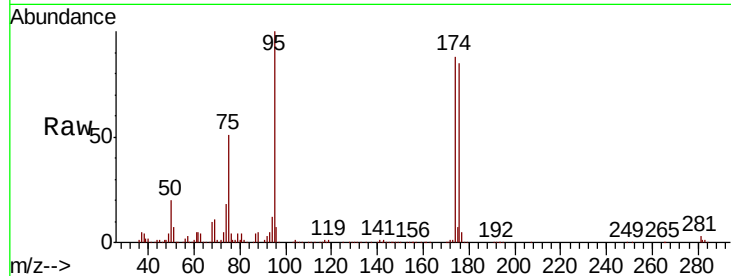
Tot Ion:173 Resp: 3249

Ion Ratio Lower Upper

173 100

175 544.7 24.3 72.8#

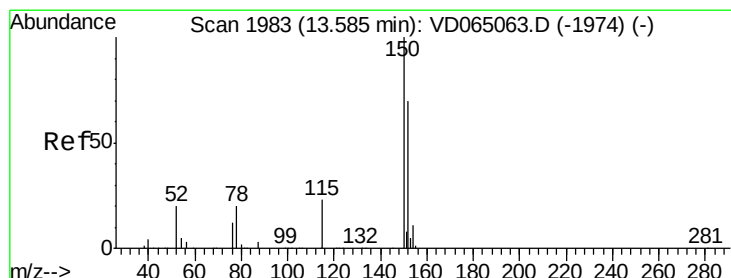
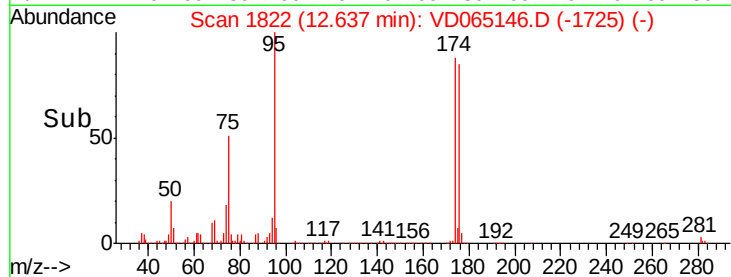
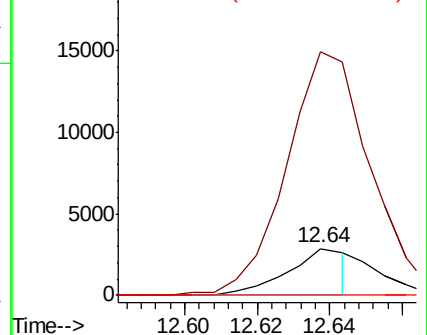
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VD065146.D

Acq: 11 Feb 2020 16:08

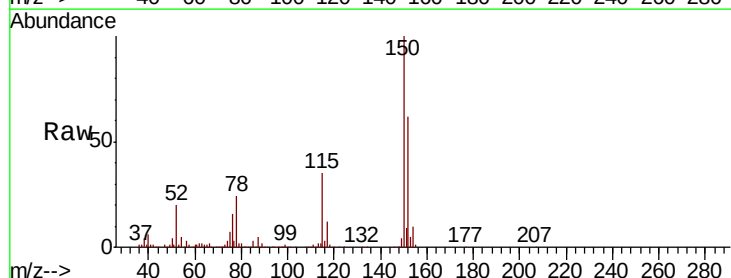
Tgt Ion:152 Resp: 396840

Ion Ratio Lower Upper

152 100

115 55.6 27.5 82.4

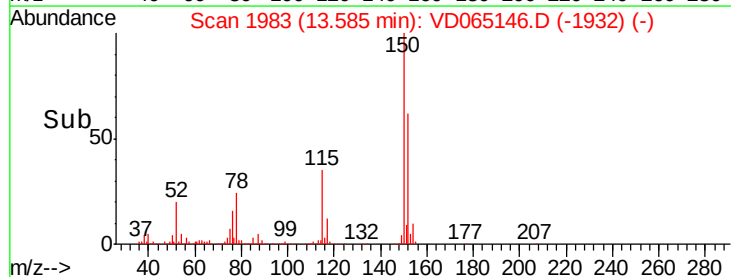
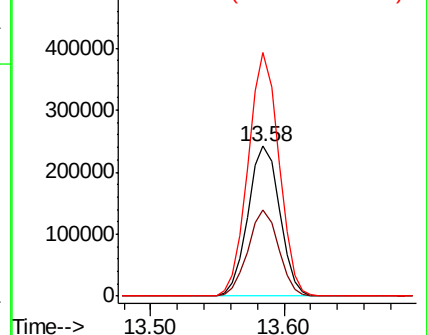
150 157.6 0.0 343.2

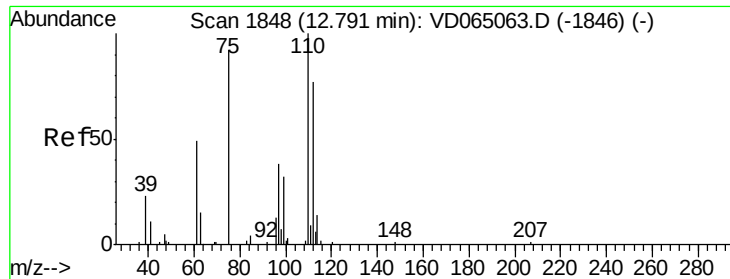


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 58.557 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065146.D

Acq: 11 Feb 2020 16:08

Instrument :

MSVOA\_D

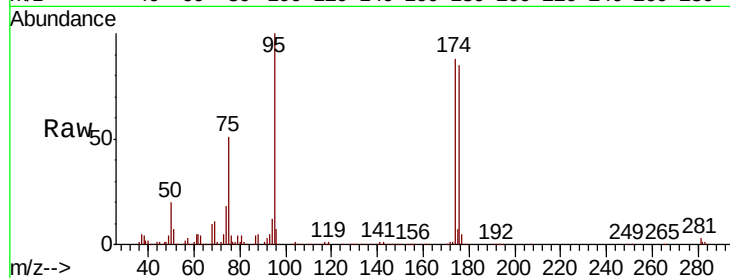
ClientSampleId :

Tot Ion: 75 Resp: 175934

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

120000

100000

80000

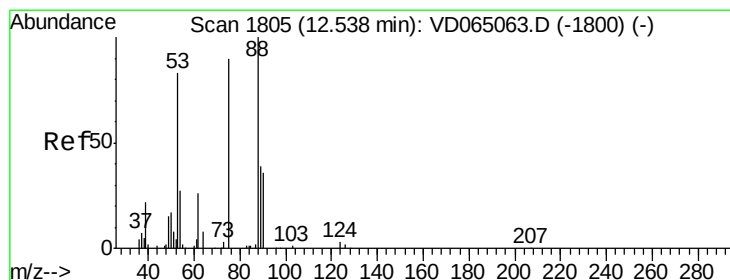
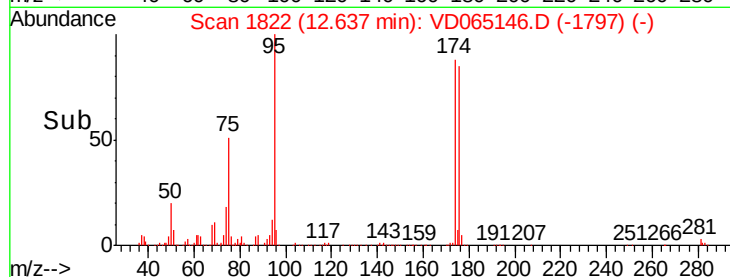
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 117.109 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065146.D

Acq: 11 Feb 2020 16:08

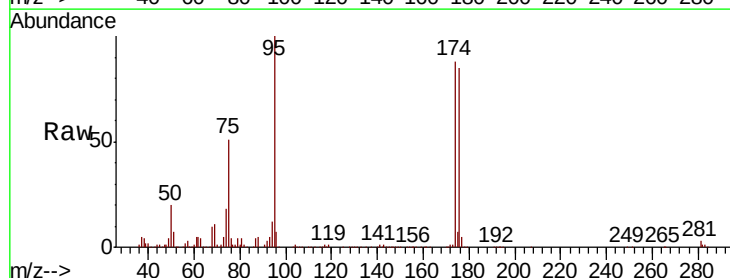
Tgt Ion: 75 Resp: 175934

Ion Ratio Lower Upper

75 100

53 0.1 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

150000

100000

50000

0

Time-->

