

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD112019\  
 Data File : VD064306.D  
 Acq On : 20 Nov 2019 11:37  
 Operator : VA/SY  
 Sample : VD1120SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1120SBL01

Quant Time: Nov 20 12:39:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 2019  
 Response via : Initial Calibration

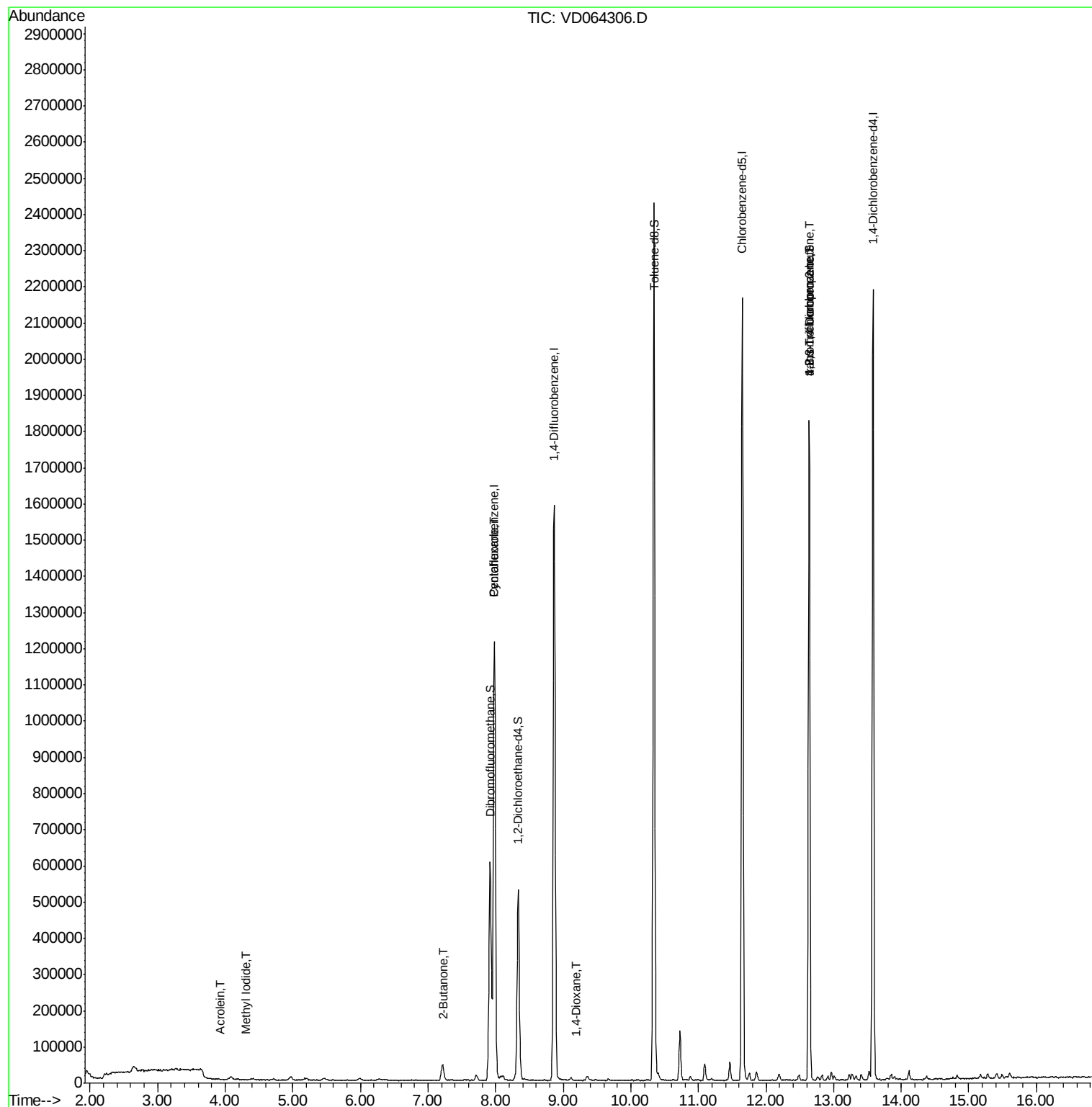
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 1000998  | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 1420754  | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 1250684  | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 601884   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 414297   | 50.32   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 100.64% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 420758   | 51.59   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 103.18% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 1655881  | 53.82   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 107.64% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 526557   | 49.42   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 98.84%  |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 10) Methyl Iodide              | 4.30  | 142  | 846      | 2.112   | ug/l #  | 44       |
| 13) Acrolein                   | 3.93  | 56   | 753      | 1.548   | ug/l    | 97       |
| 25) 2-Butanone                 | 7.21  | 43   | 3360     | 1.333   | ug/l    | 97       |
| 31) Cyclohexane                | 7.98  | 56   | 23600    | 1.461   | ug/l #  | 25       |
| 49) 1,4-Dioxane                | 9.18  | 88   | 73       | 1.302   | ug/l #  | 22       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 278091   | 57.362  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 278091   | 113.944 | ug/l #  | 10       |

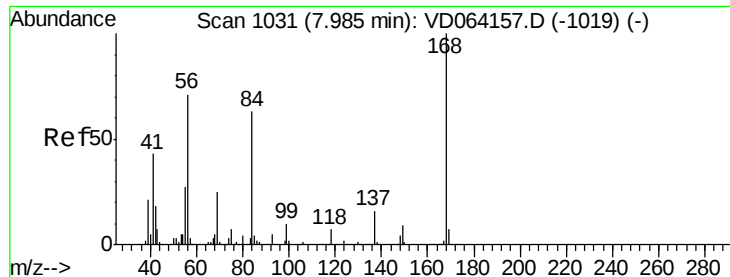
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD112019\  
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Sample : VD1120SBL01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1120SBL01

Quant Time: Nov 20 12:39:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 2019  
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: VD064306.D

Acq: 20 Nov 2019 11:37

Instrument :

MSVOA\_D

ClientSampleId :

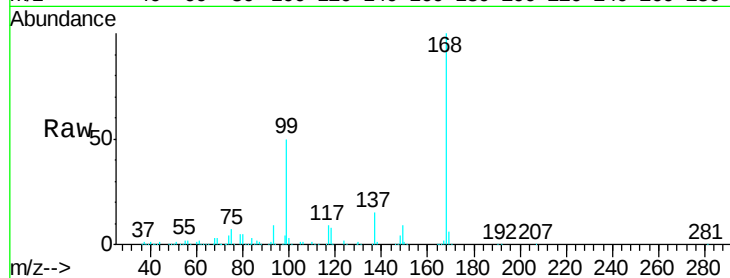
VD1120SBL01

Tgt Ion:168 Resp: 1000998

Ion Ratio Lower Upper

168 100

99 49.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

400000

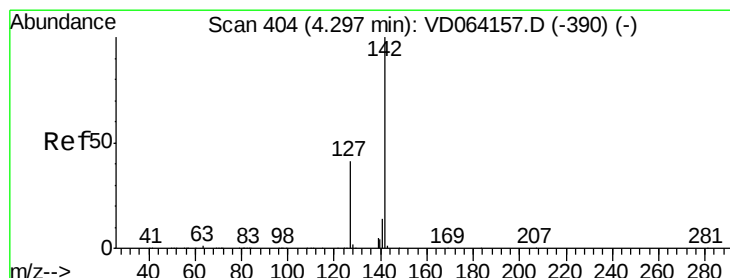
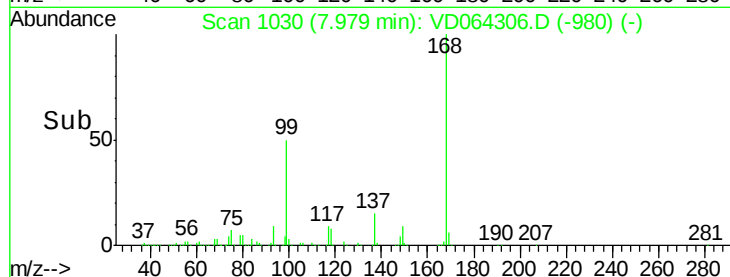
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 2.112 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064306.D

Acq: 20 Nov 2019 11:37

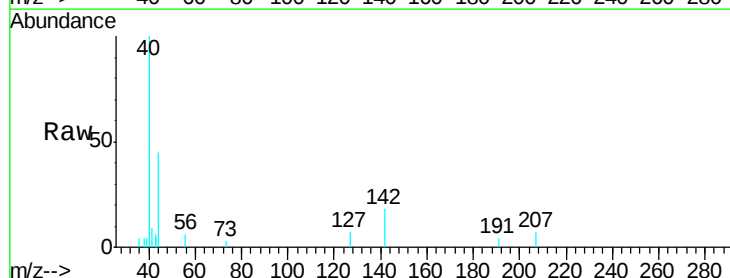
Tgt Ion:142 Resp: 846

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

141 22.6 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.30

1000

800

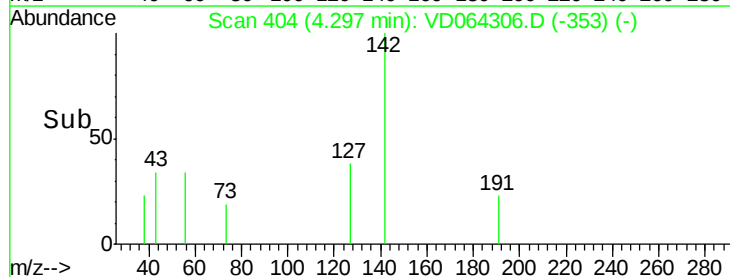
600

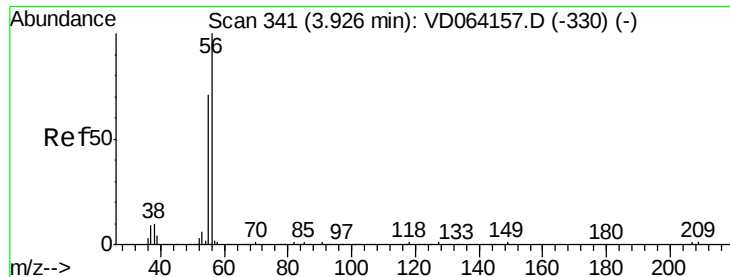
400

200

0

Time-->





#13

Acrolein

Concen: 1.548 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD064306.D

Acq: 20 Nov 2019 11:37

Instrument :

MSVOA\_D

ClientSampleId :

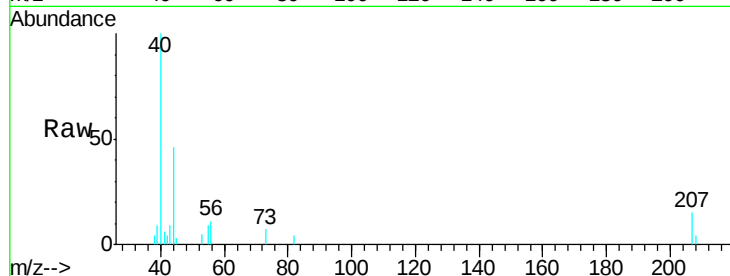
VD1120SBL01

Tgt Ion: 56 Resp: 753

Ion Ratio Lower Upper

56 100

55 72.9 56.1 84.1



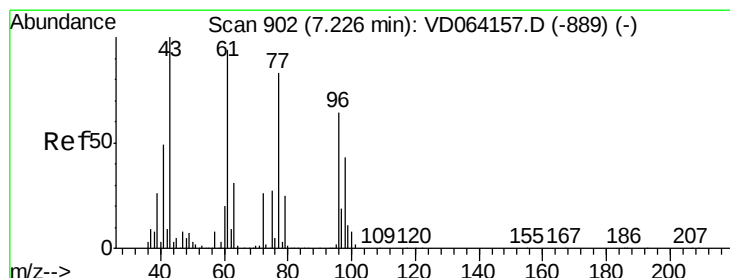
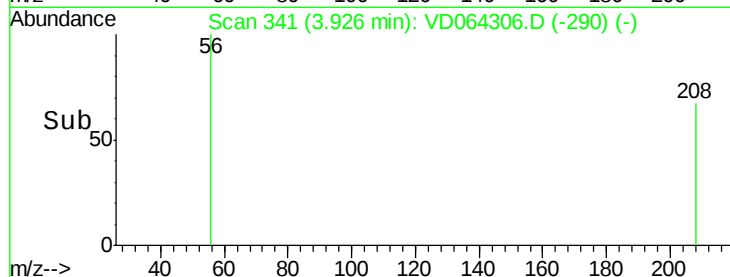
Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.93

3.90 3.95

Time-->



#25

2-Butanone

Concen: 1.333 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.01 min

Lab File: VD064306.D

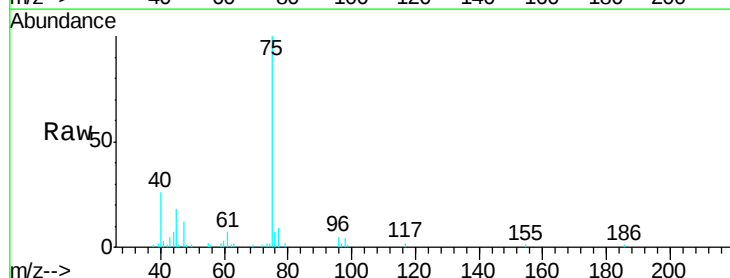
Acq: 20 Nov 2019 11:37

Tgt Ion: 43 Resp: 3360

Ion Ratio Lower Upper

43 100

72 24.3 20.6 30.8



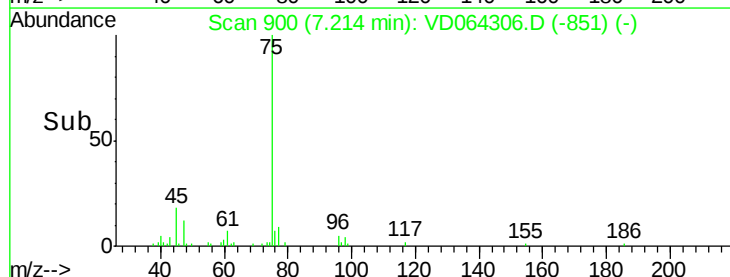
Abundance Ion 43.00 (42.70 to 43.70): VDC

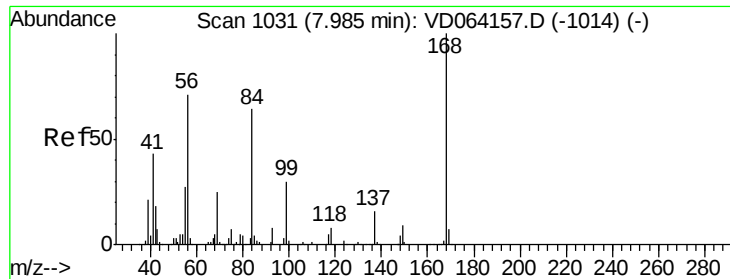
Ion 72.00 (71.70 to 72.70): VDC

7.21

7.15 7.25

Time-->

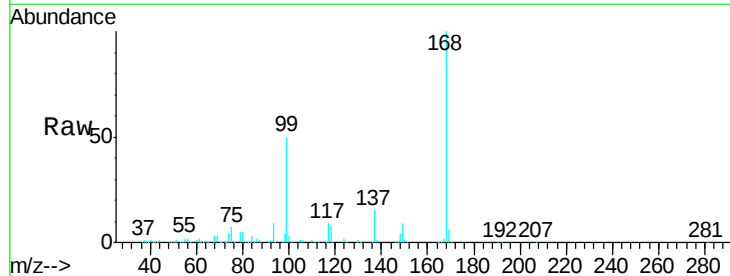




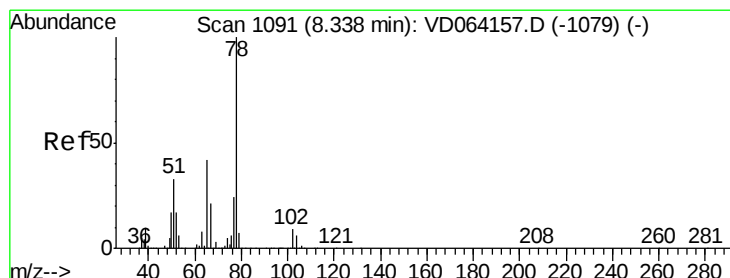
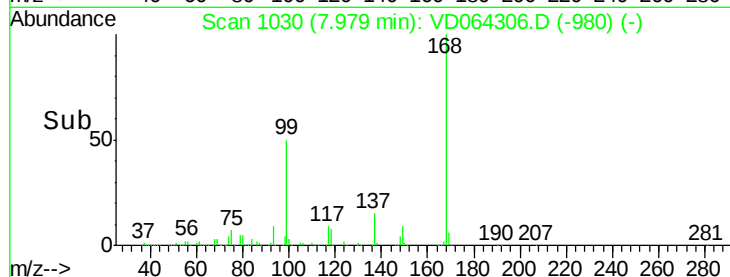
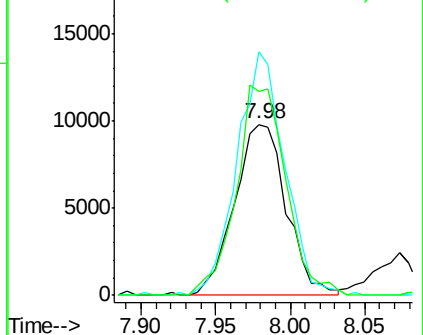
#31  
Cyclohexane  
Concen: 1.461 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD064306.D  
Acq: 20 Nov 2019 11:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1120SBL01

Tgt Ion: 56 Resp: 23600  
Ion Ratio Lower Upper  
56 100  
69 142.7 28.2 42.4#  
84 119.4 71.8 107.6#

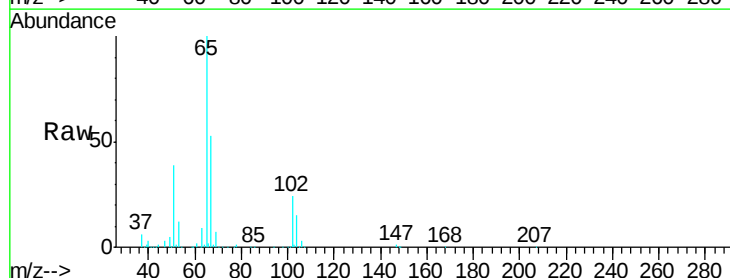


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

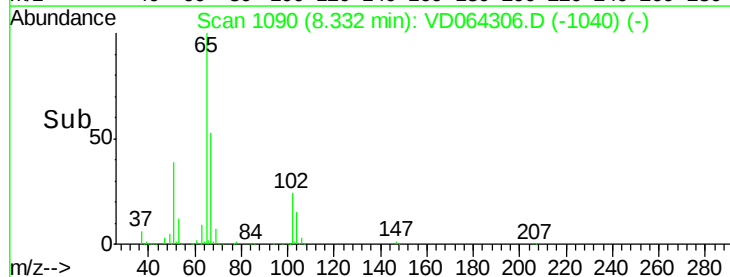
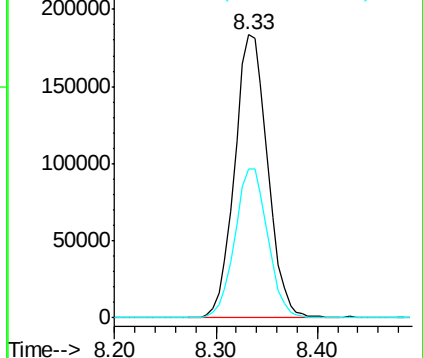


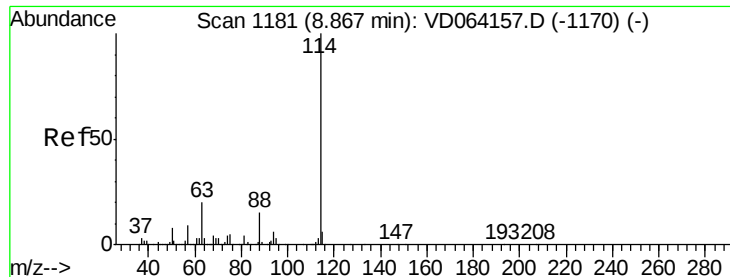
#33  
1,2-Dichloroethane-d4  
Concen: 50.324 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD064306.D  
Acq: 20 Nov 2019 11:37

Tgt Ion: 65 Resp: 414297  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 104.4



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

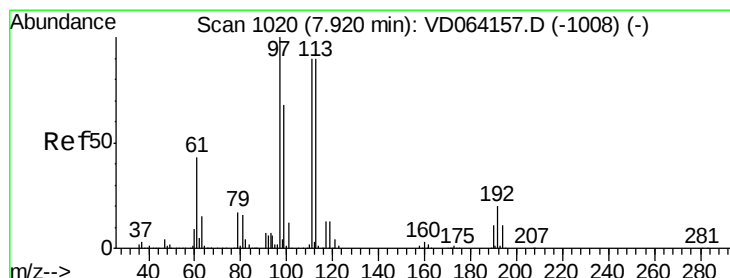
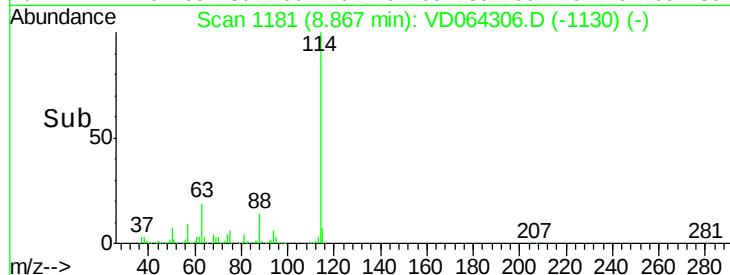
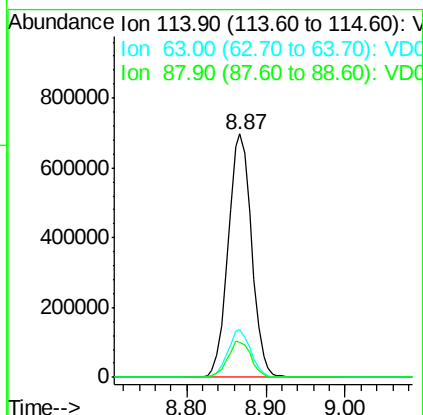
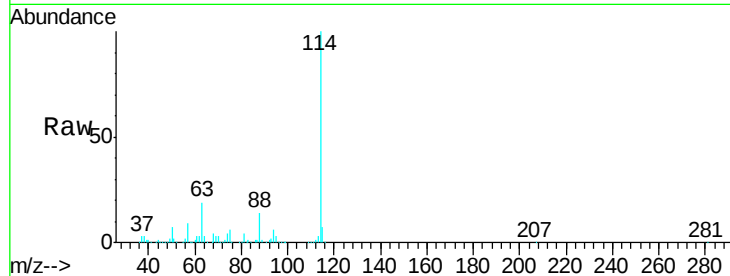




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064306.D  
 Acq: 20 Nov 2019 11:37

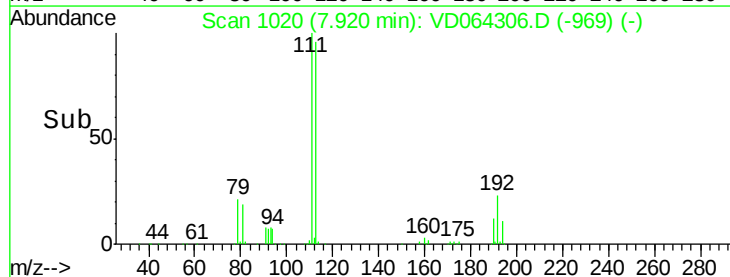
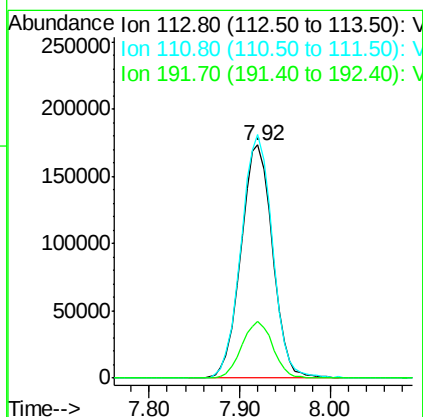
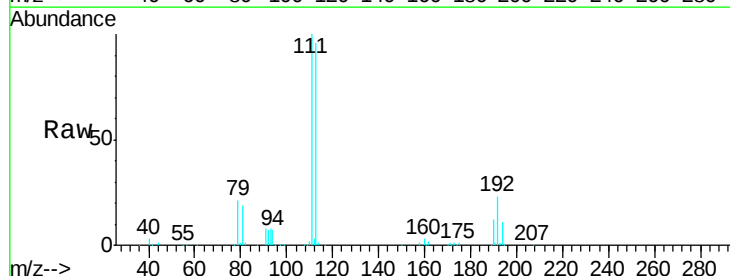
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1120SBL01

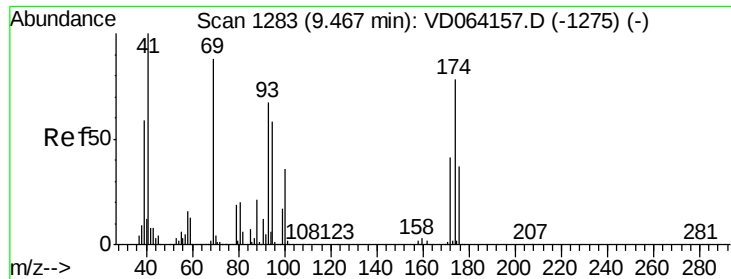
Tgt Ion:114 Resp: 1420754  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 40.0  
 88 14.5 0.0 30.2



#35  
 Dibromofluoromethane  
 Concen: 51.593 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064306.D  
 Acq: 20 Nov 2019 11:37

Tgt Ion:113 Resp: 420758  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 81.5 122.3  
 192 23.9 18.8 28.2

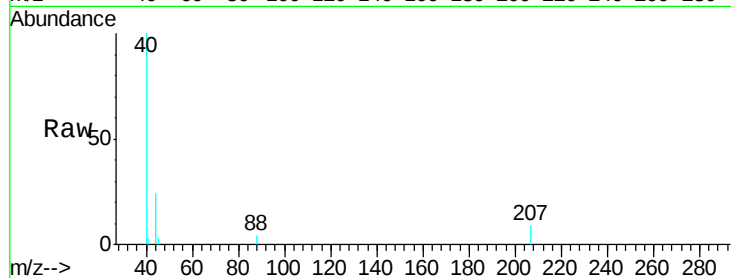




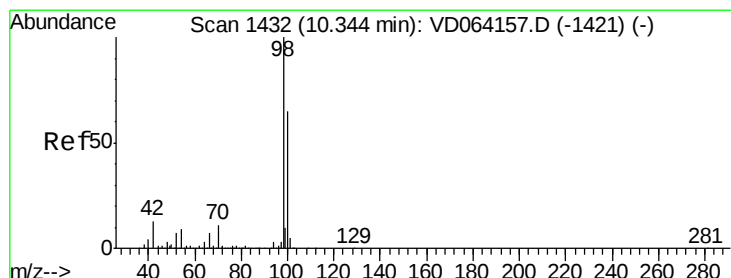
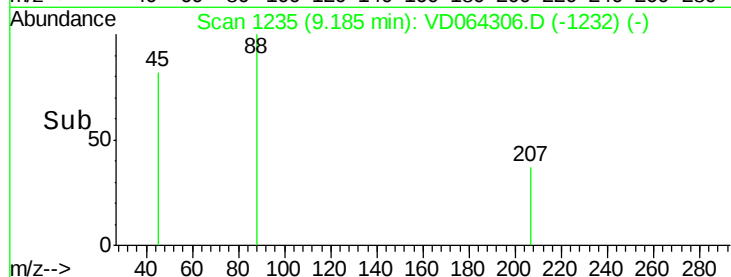
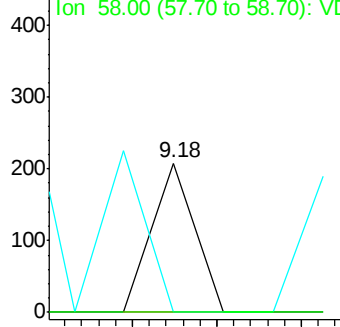
#49  
1,4-Dioxane  
Concen: 1.302 ug/l  
RT: 9.18 min Scan# 1235  
Delta R.T. -0.28 min  
Lab File: VD064306.D  
Acq: 20 Nov 2019 11:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1120SBL01

Tgt Ion: 88 Resp: 73  
Ion Ratio Lower Upper  
88 100  
43 0.0 29.8 44.8#  
58 0.0 58.1 87.1#

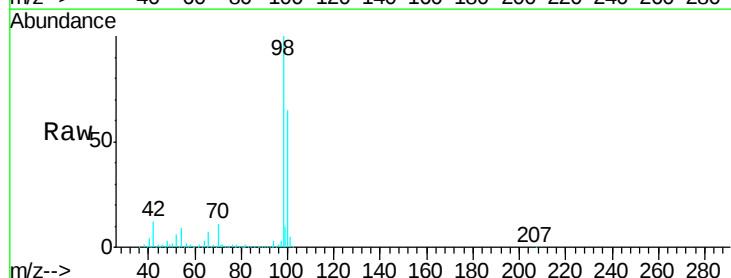


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

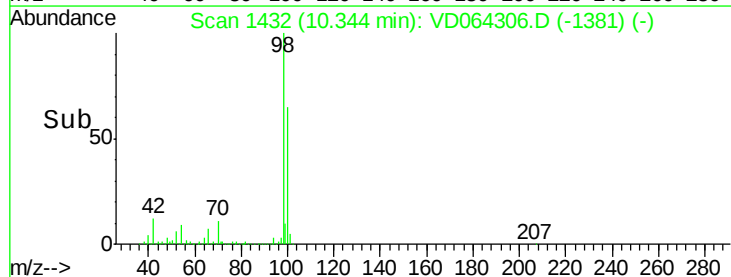
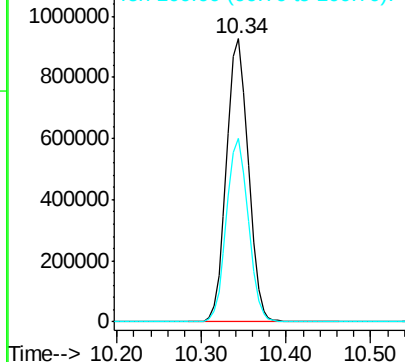


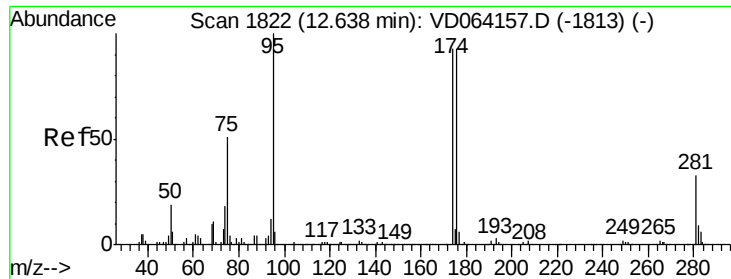
#50  
Toluene-d8  
Concen: 53.823 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD064306.D  
Acq: 20 Nov 2019 11:37

Tgt Ion: 98 Resp: 1655881  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.6 78.8



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

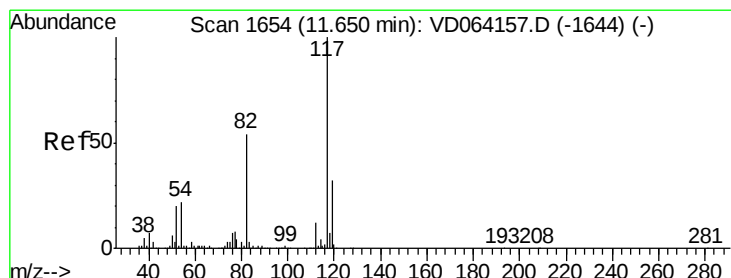
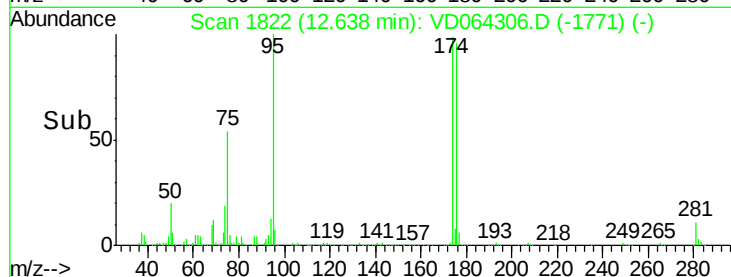
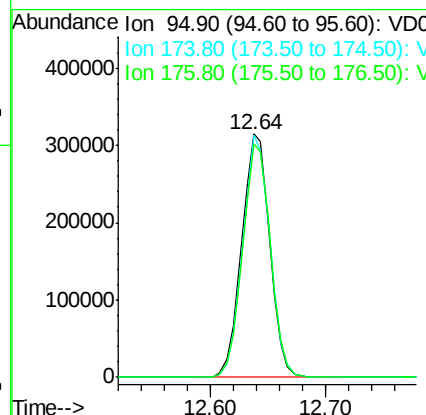
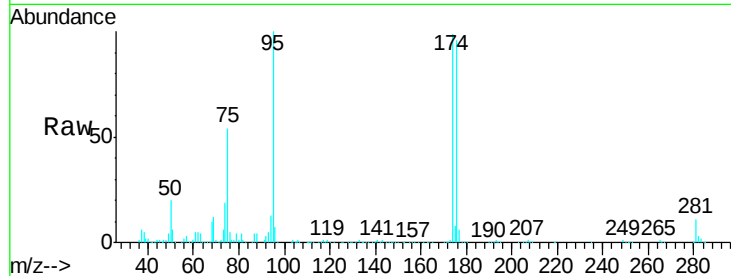




#62  
4-Bromofluorobenzene  
Concen: 49.422 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD064306.D  
Acq: 20 Nov 2019 11:37

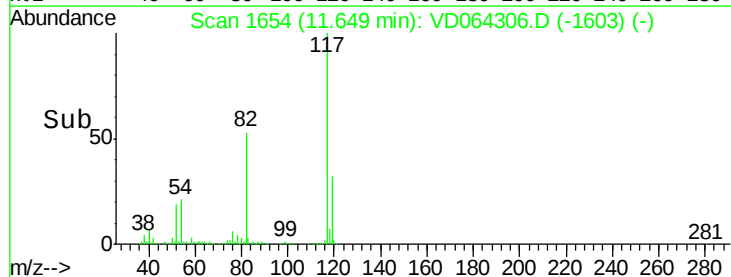
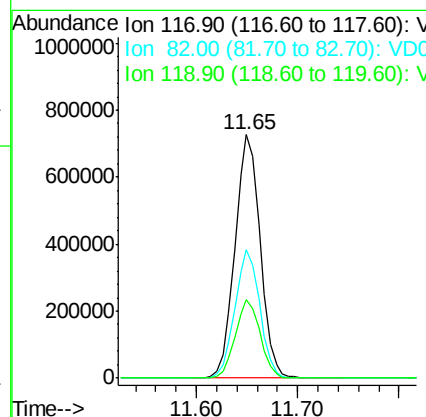
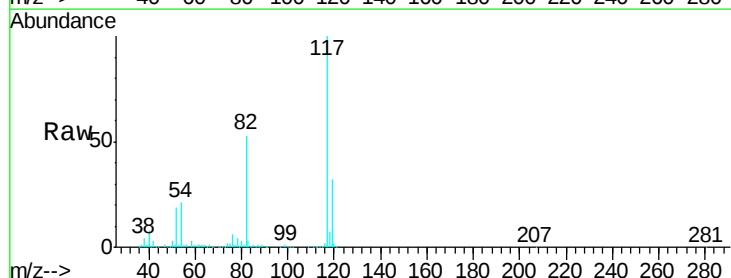
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1120SBL01

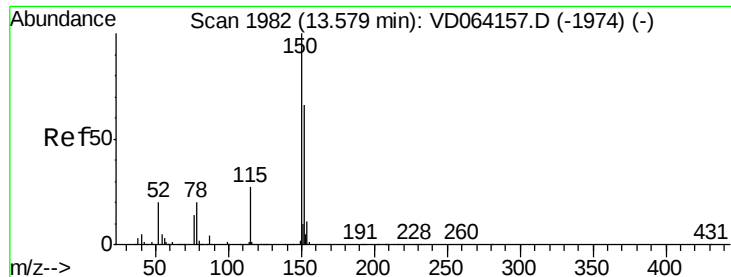
Tgt Ion: 95 Resp: 526557  
Ion Ratio Lower Upper  
95 100  
174 97.2 0.0 183.6  
176 95.7 0.0 180.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD064306.D  
Acq: 20 Nov 2019 11:37

Tgt Ion: 117 Resp: 1250684  
Ion Ratio Lower Upper  
117 100  
82 52.6 42.8 64.2  
119 32.0 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064306.D

Acq: 20 Nov 2019 11:37

Instrument :

MSVOA\_D

ClientSampleId :

VD1120SBL01

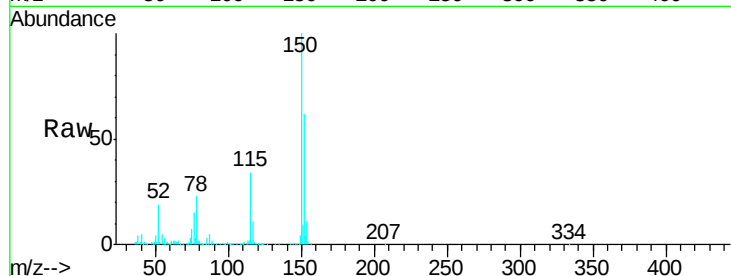
Tgt Ion: 152 Resp: 601884

Ion Ratio Lower Upper

152 100

115 54.6 27.4 82.2

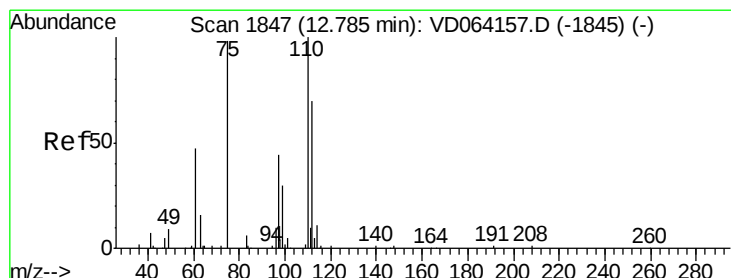
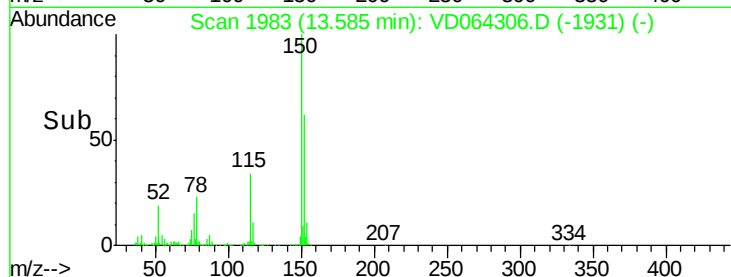
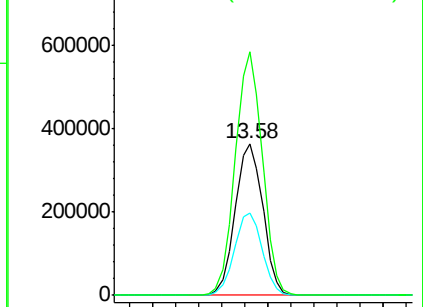
150 157.8 0.0 351.6



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: 57.362 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064306.D

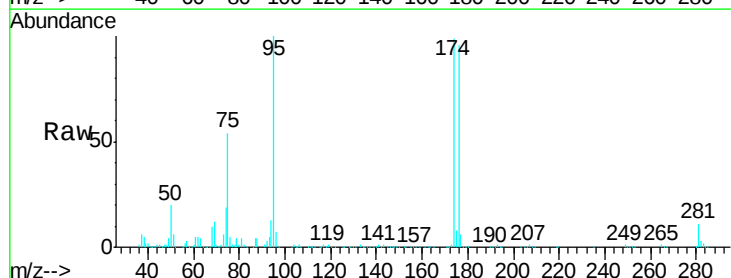
Acq: 20 Nov 2019 11:37

Tgt Ion: 75 Resp: 278091

Ion Ratio Lower Upper

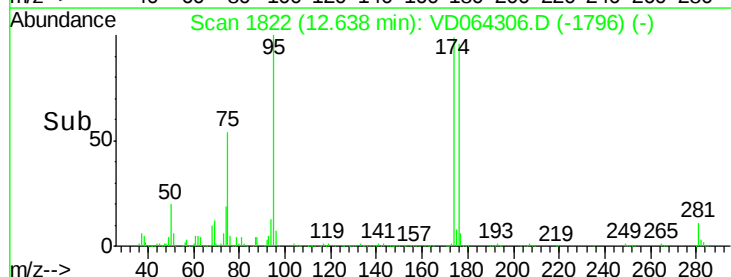
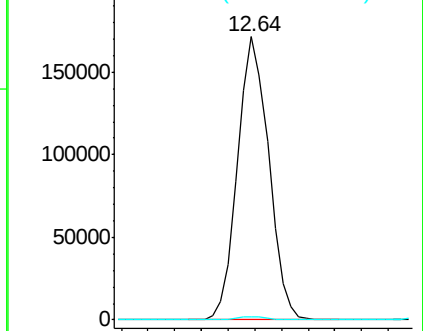
75 100

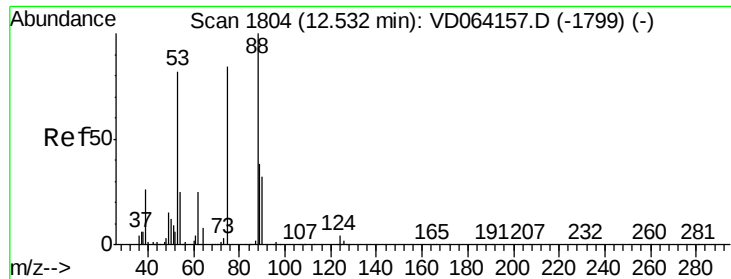
77 1.2 0.0 0.0#



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: 113.944 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064306.D

Acq: 20 Nov 2019 11:37

Instrument :

MSVOA\_D

ClientSampleId :

VD1120SBL01

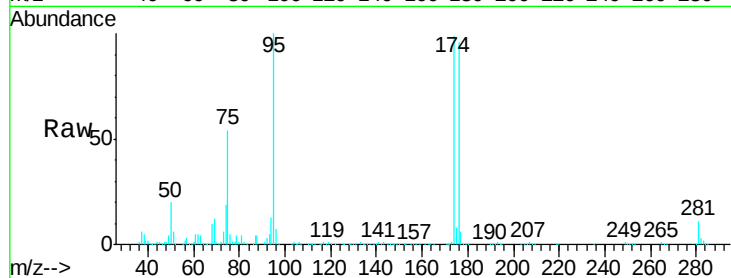
Tgt Ion: 75 Resp: 278091

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

89 0.1 36.6 55.0#



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

