

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\  
 Data File : VD067175.D  
 Acq On : 08 Oct 2020 02:58  
 Operator : VA/SY  
 Sample : L4309-01  
 Misc : 4.50G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OWLS-HEAD-BH-02-A

Quant Time: Oct 08 07:30:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

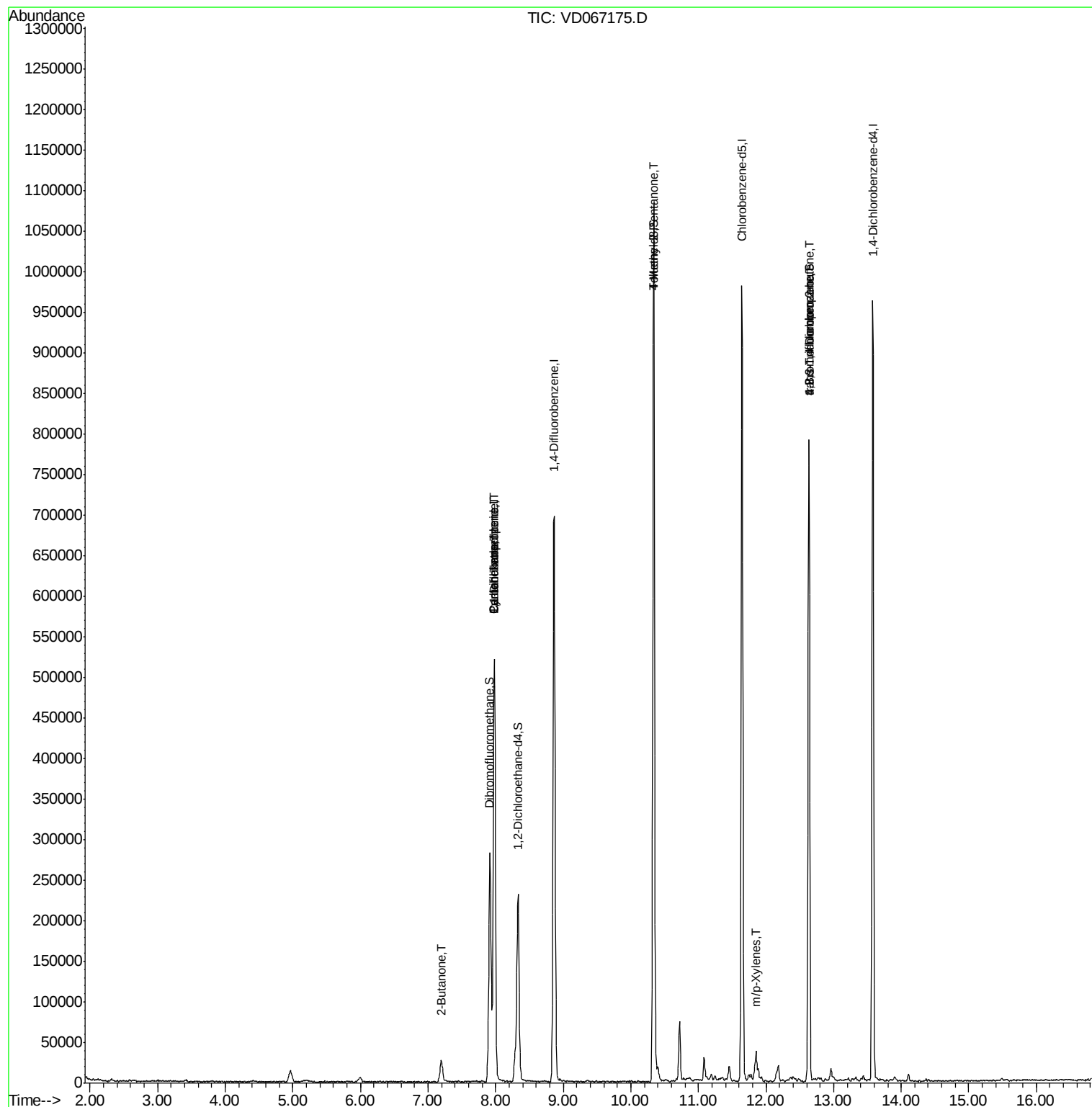
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98   | 168  | 389103   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.86   | 114  | 633507   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.64  | 117  | 590521   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58  | 152  | 264267   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33   | 65   | 191936   | 51.21     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 102.42% |          |
| 35) Dibromofluoromethane       | 7.91   | 113  | 202717   | 48.88     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.76%  |          |
| 50) Toluene-d8                 | 10.34  | 98   | 734576   | 48.61     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.22%  |          |
| 62) 4-Bromofluorobenzene       | 12.64  | 95   | 248842   | 48.50     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.00%  |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.99   | 85   | 630      | Below Cal | #       | 40       |
| 5) Bromomethane                | 2.79   | 94   | 305      | Below Cal | #       | 3        |
| 11) Tert butyl alcohol         | 5.21   | 59   | 1483     | Below Cal | #       | 72       |
| 20) Methylene Chloride         | 4.96   | 84   | 11956    | Below Cal | #       | 71       |
| 25) 2-Butanone                 | 7.20   | 43   | 1251     | 1.542     | ug/l    | 100      |
| 26) 2,2-Dichloropropane        | 7.20   | 77   | 1405     | Below Cal | #       | 53       |
| 31) Cyclohexane                | 7.98   | 56   | 8562     | 1.521     | ug/l #  | 38       |
| 36) 1,1-Dichloropropene        | 7.98   | 75   | 28068    | 4.753     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.98   | 117  | 40591    | 6.353     | ug/l #  | 14       |
| 51) 4-Methyl-2-Pentanone       | 10.34  | 43   | 2592     | 1.381     | ug/l #  | 1        |
| 68) m/p-Xylenes                | 11.85  | 106  | 10513    | 1.341     | ug/l    | 86       |
| 76) 1,2,3-Trichloropropane     | 12.64  | 75   | 128538   | 55.841    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64  | 75   | 128538   | 139.219   | ug/l #  | 12       |

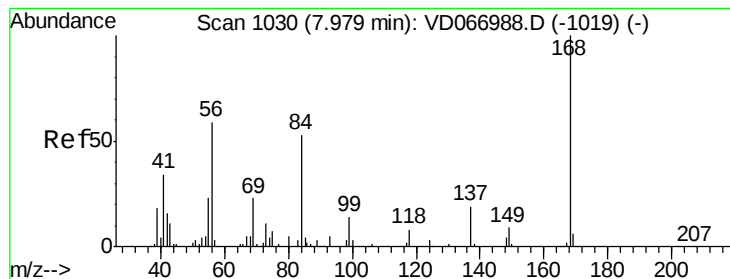
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OWLS-HEAD-BH-02-A

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
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: VD067175.D

Acq: 08 Oct 2020 02:58

Instrument :

MSVOA\_D

ClientSampleId :

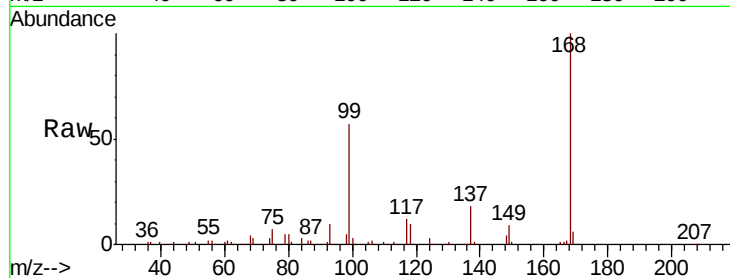
OWLS-HEAD-BH-02-A

Tot Ion:168 Resp: 389103

Ion Ratio Lower Upper

168 100

99 56.5 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

200000

150000

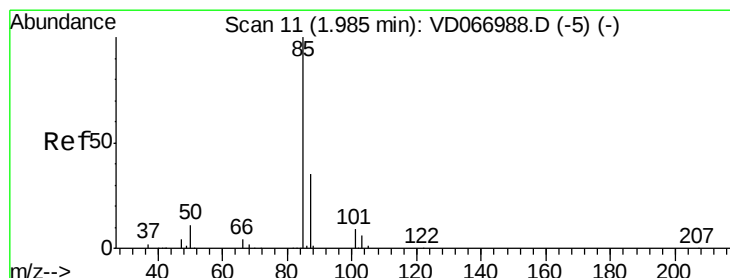
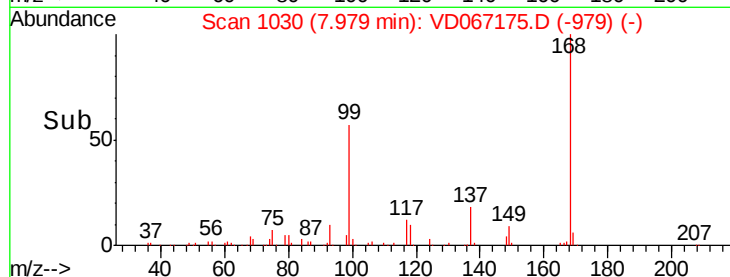
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067175.D

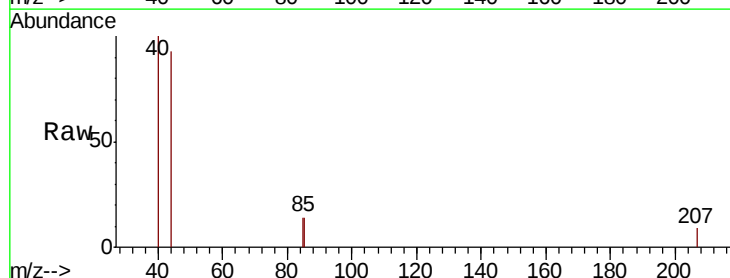
Acq: 08 Oct 2020 02:58

Tgt Ion: 85 Resp: 630

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

600

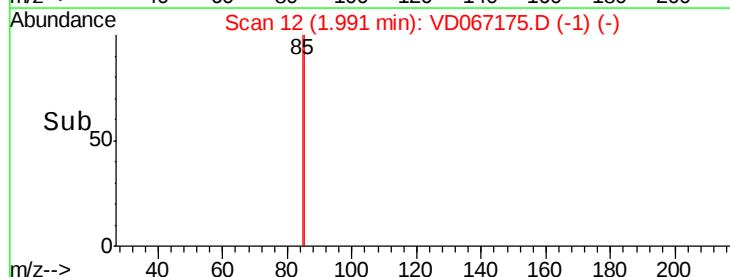
400

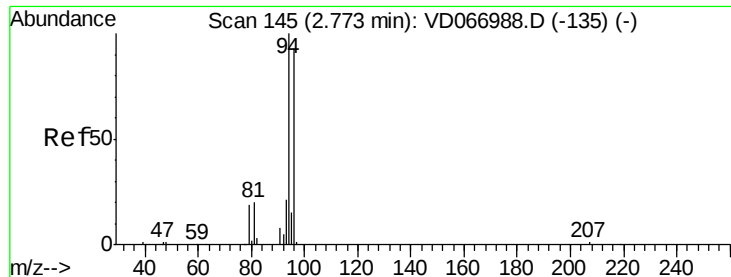
200

0

1.94 1.96 1.98 2.00 2.02

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067175.D

Acq: 08 Oct 2020 02:58

Instrument :

MSVOA\_D

ClientSampleId :

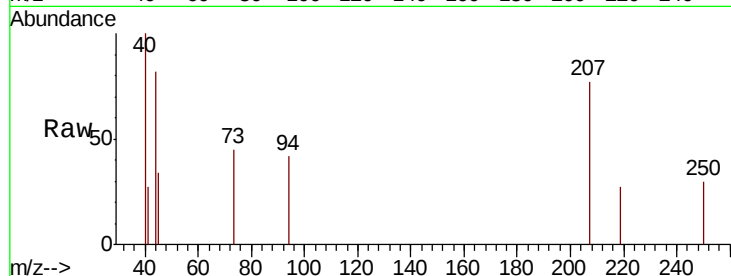
OWLS-HEAD-BH-02-A

Tot Ion: 94 Resp: 305

Ion Ratio Lower Upper

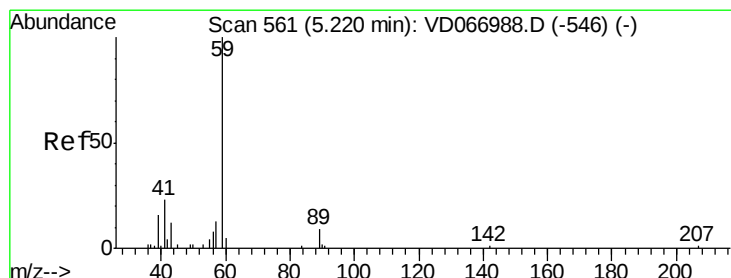
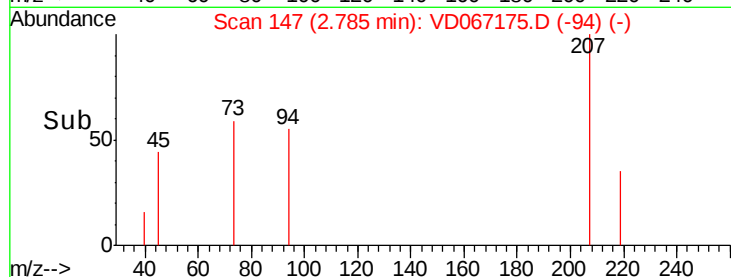
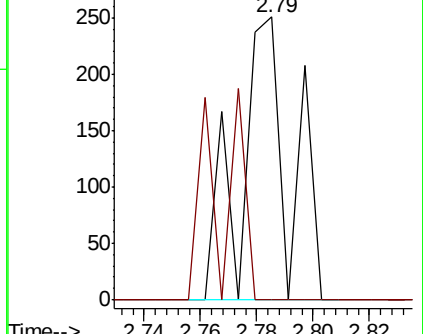
94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD067175.D

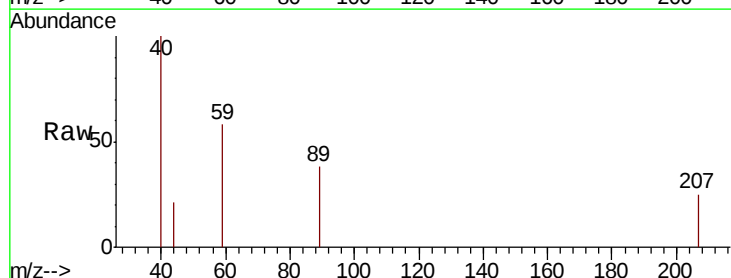
Acq: 08 Oct 2020 02:58

Tgt Ion: 59 Resp: 1483

Ion Ratio Lower Upper

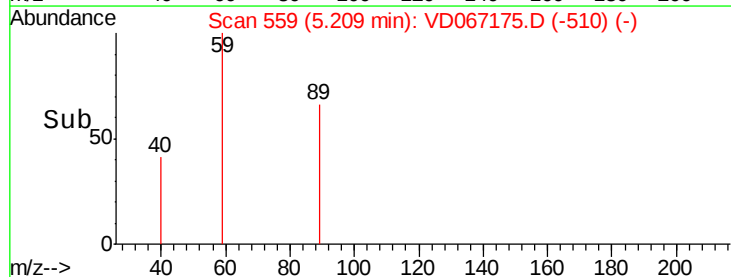
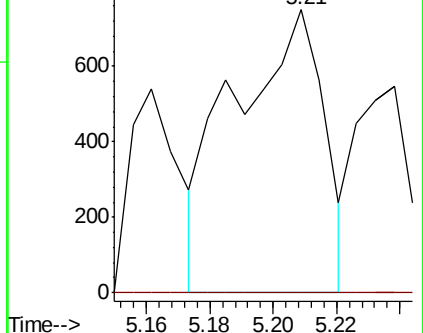
59 100

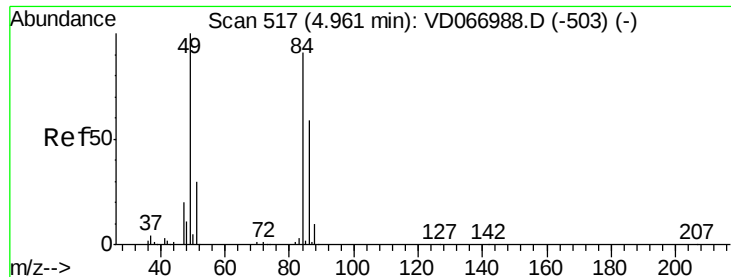
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

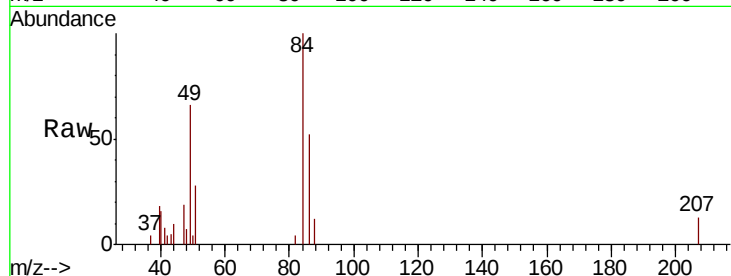




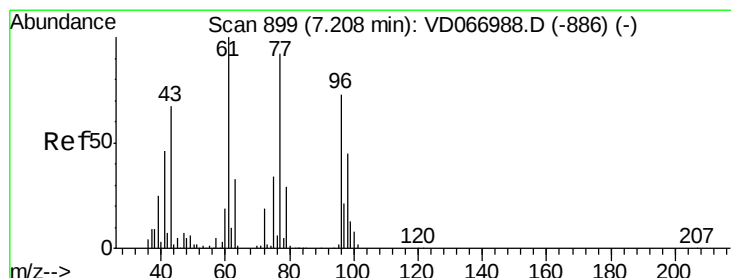
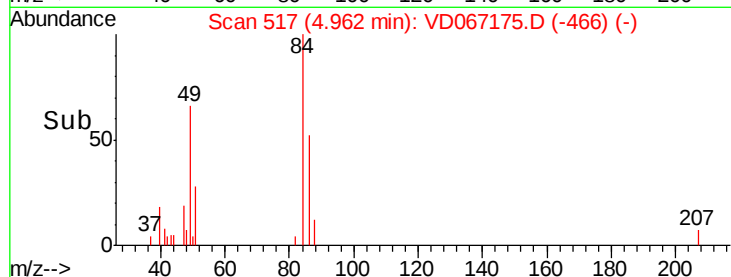
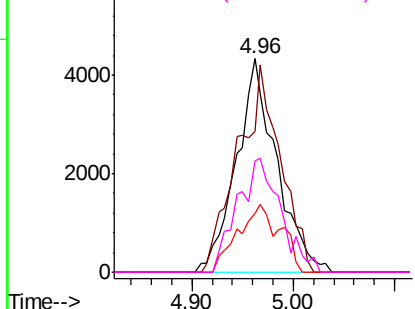
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

Instrument :  
MSVOA\_D  
ClientSampleId :  
OWLS-HEAD-BH-02-A

Tot Ion: 84 Resp: 11956  
Ion Ratio Lower Upper  
84 100  
49 66.0 88.2 132.2#  
51 27.7 26.6 39.8  
86 52.4 52.1 78.1

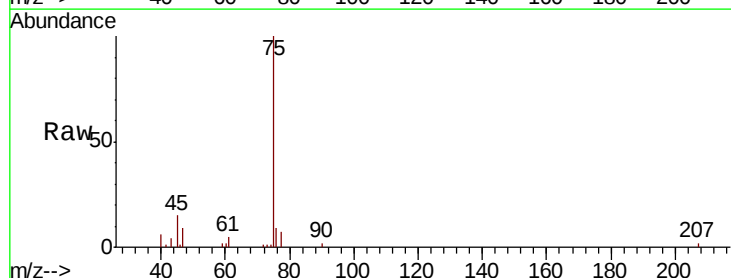


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

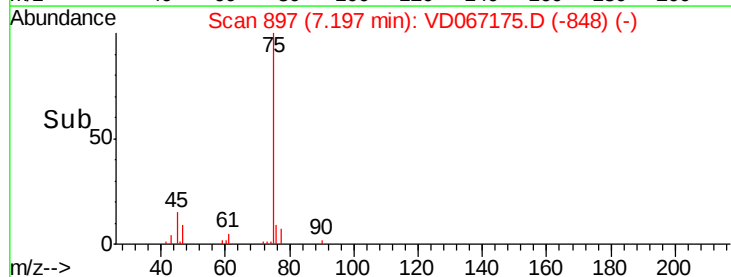
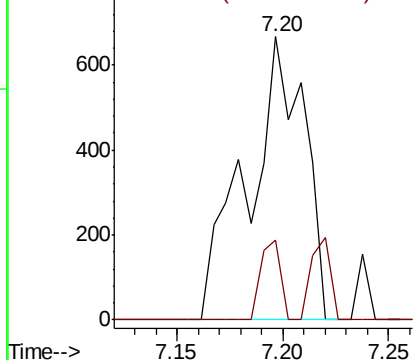


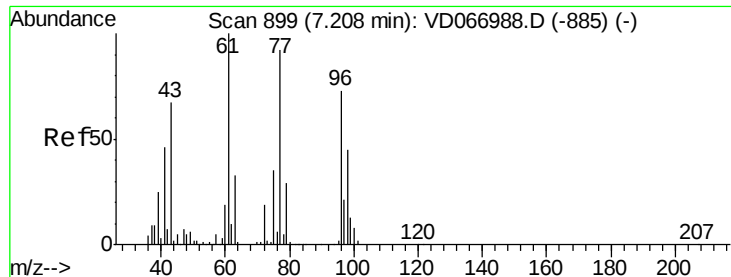
#25  
2-Butanone  
Concen: 1.542 ug/l  
RT: 7.20 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

Tgt Ion: 43 Resp: 1251  
Ion Ratio Lower Upper  
43 100  
72 28.3 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC

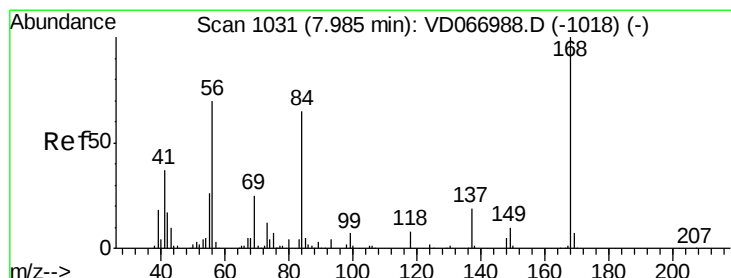
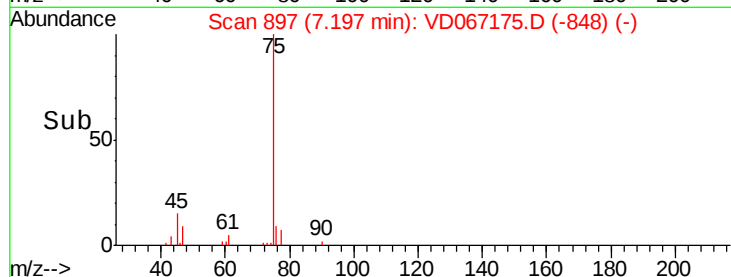
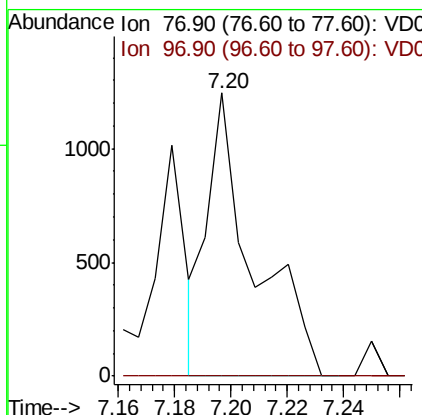
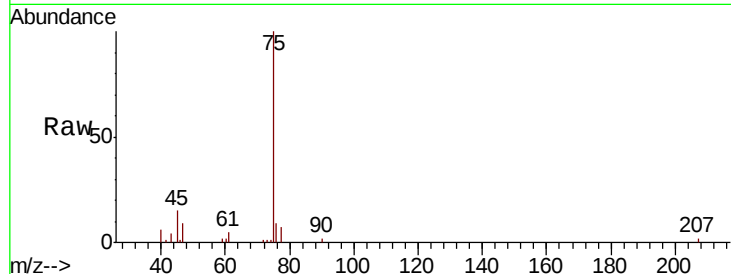




#26  
2,2-Dichloropropane  
Concen: Below Cal  
RT: 7.20 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

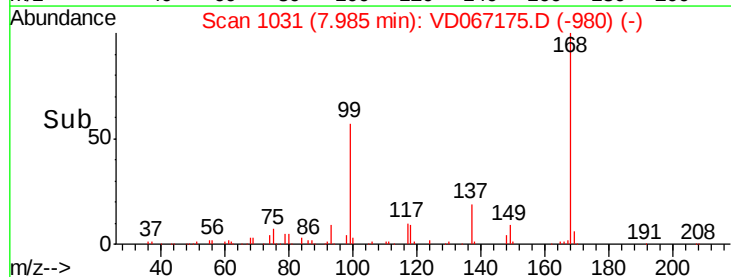
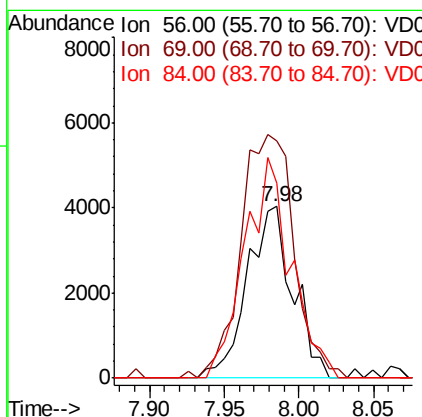
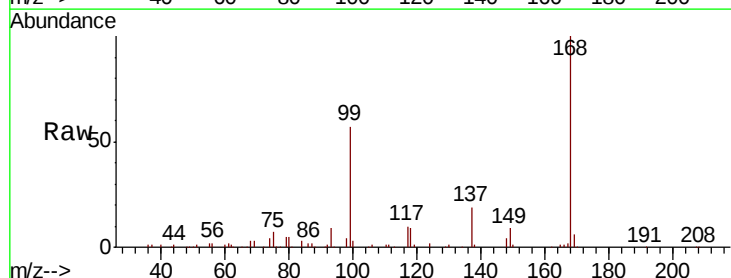
Instrument :  
MSVOA\_D  
ClientSampleId :  
OWLS-HEAD-BH-02-A

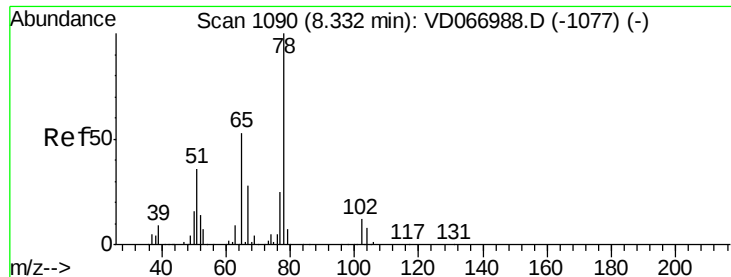
Tot Ion: 77 Resp: 1405  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.4 34.2#



#31  
Cyclohexane  
Concen: 1.521 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

Tgt Ion: 56 Resp: 8562  
Ion Ratio Lower Upper  
56 100  
69 133.9 29.0 43.6#  
84 113.4 74.2 111.2#





#33

1,2-Dichloroethane-d4

Concen: 51.213 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067175.D

Acq: 08 Oct 2020 02:58

Instrument :

MSVOA\_D

ClientSampleId :

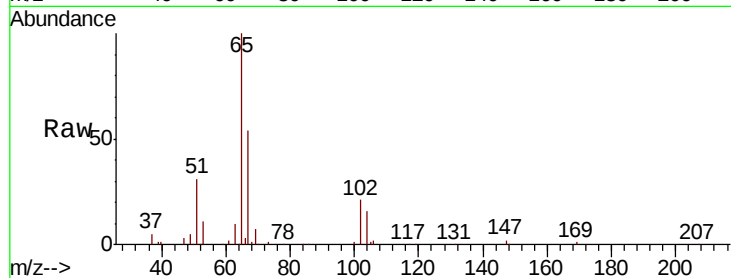
OWLS-HEAD-BH-02-A

Tot Ion: 65 Resp: 191936

Ion Ratio Lower Upper

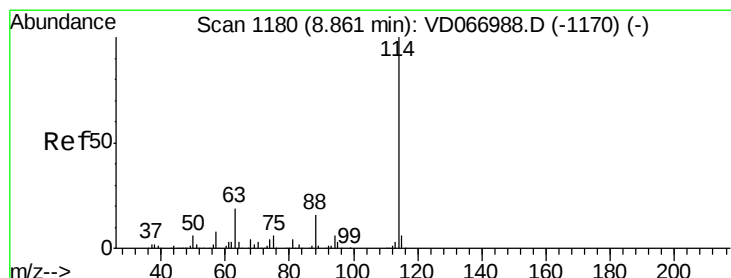
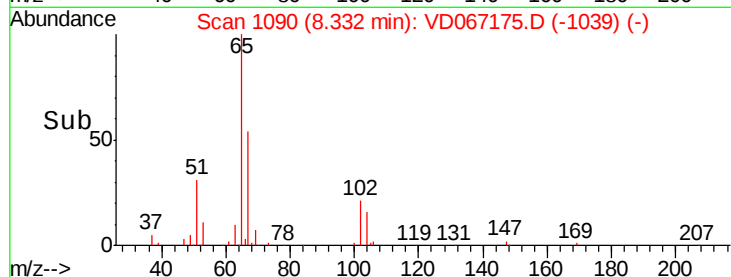
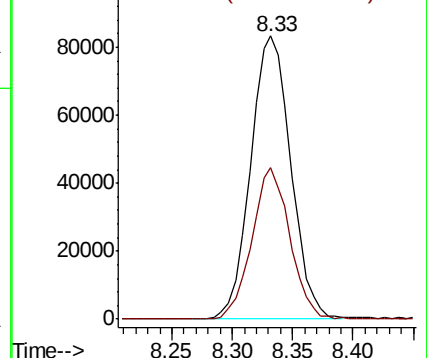
65 100

67 50.6 0.0 106.8



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: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD067175.D

Acq: 08 Oct 2020 02:58

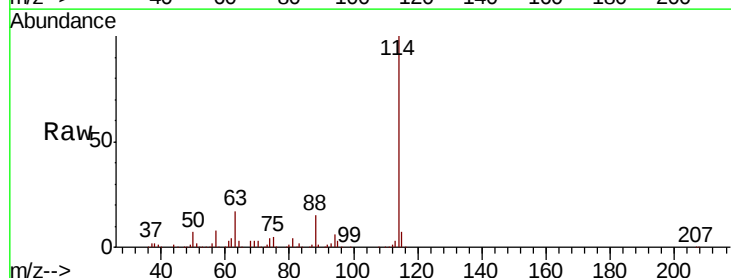
Tgt Ion: 114 Resp: 633507

Ion Ratio Lower Upper

114 100

63 17.0 0.0 38.4

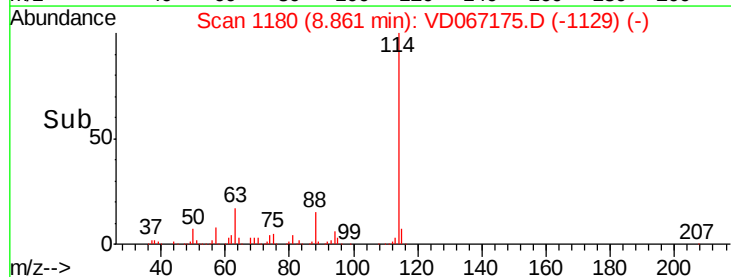
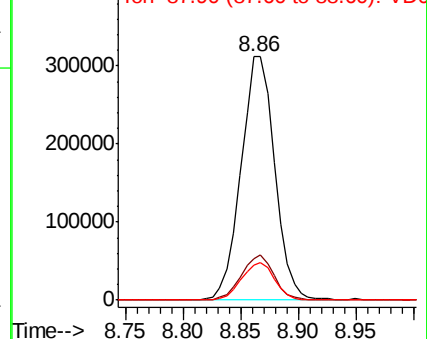
88 14.6 0.0 31.2

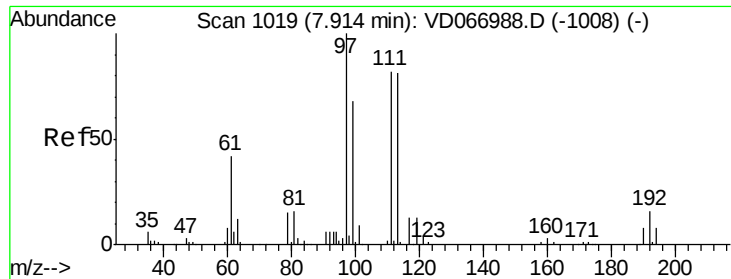


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

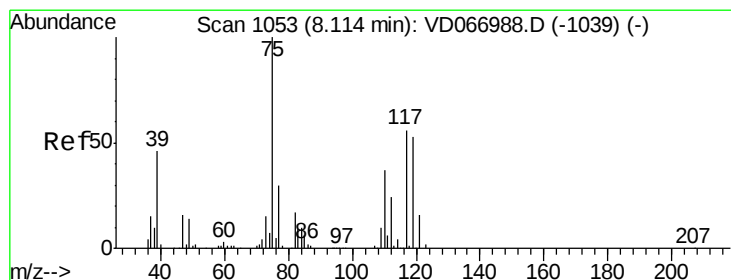
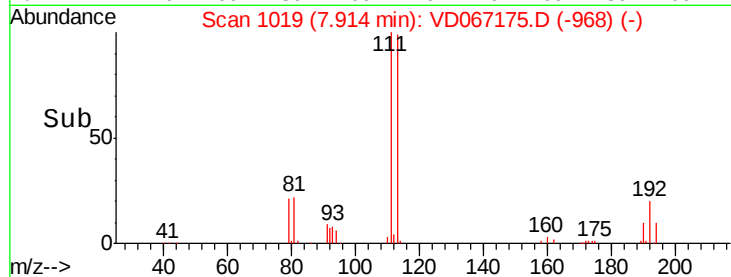
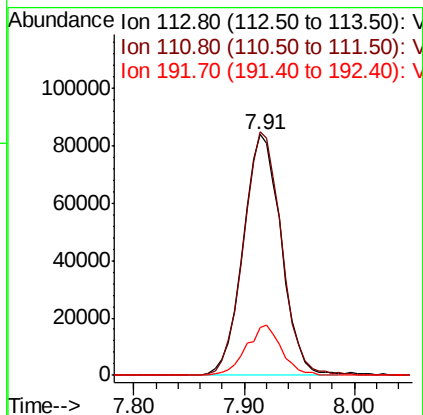
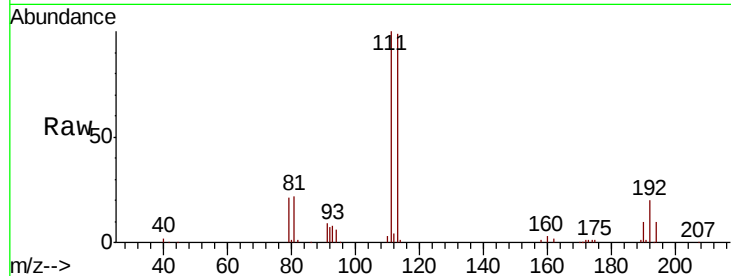




#35  
 Dibromofluoromethane  
 Concen: 48.878 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD067175.D  
 Acq: 08 Oct 2020 02:58

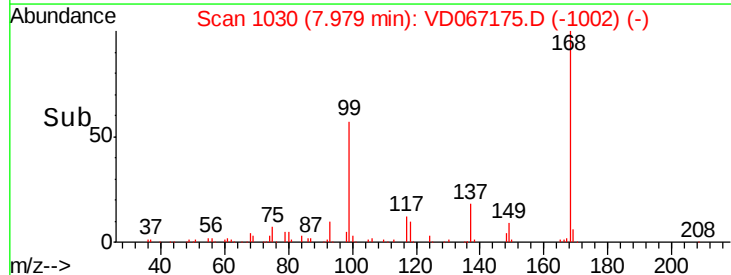
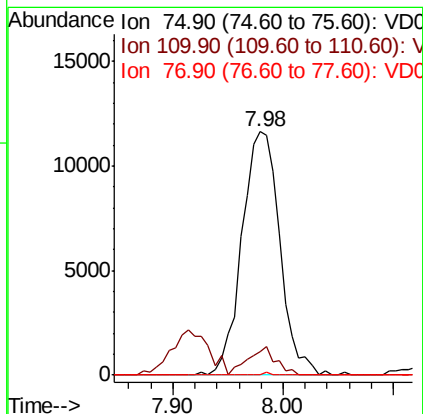
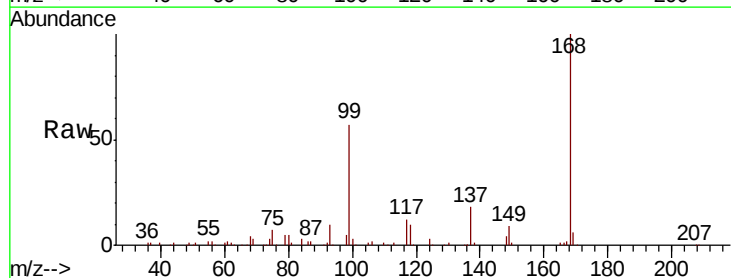
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OWLS-HEAD-BH-02-A

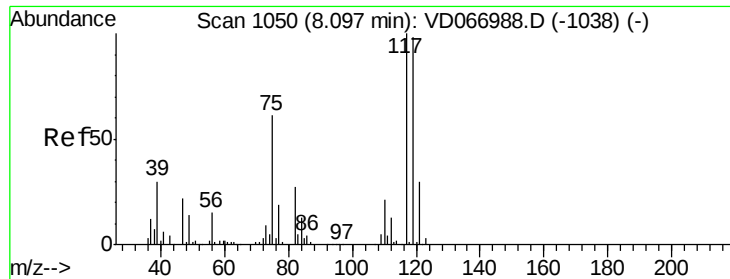
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.0 | 83.0  | 124.4 |
| 192     | 19.4  | 15.5  | 23.3  |



#36  
 1,1-Dichloropropene  
 Concen: 4.753 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD067175.D  
 Acq: 08 Oct 2020 02:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.7   | 18.4  | 55.0# |
| 77      | 0.2   | 24.8  | 37.2# |

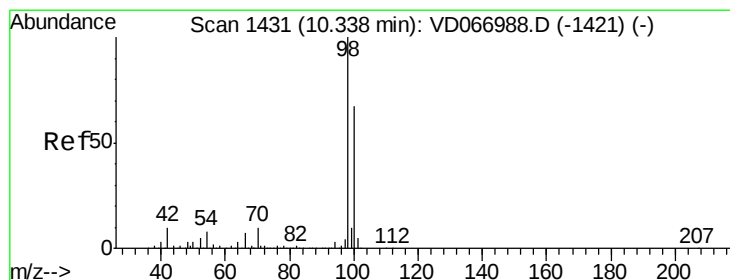
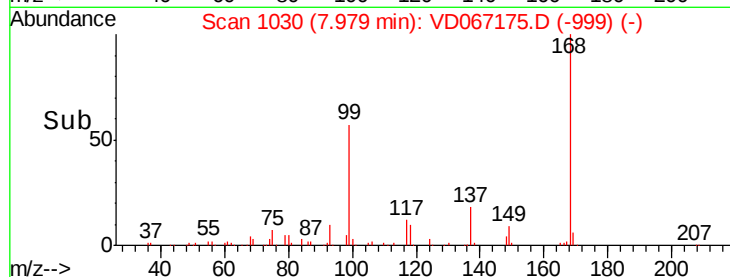
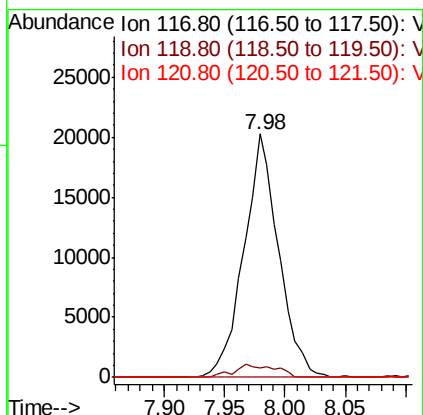
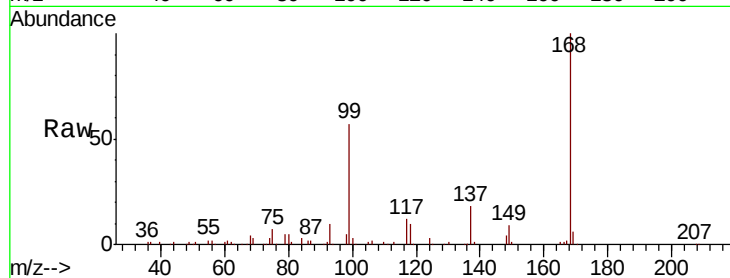




#38  
Carbon Tetrachloride  
Concen: 6.353 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

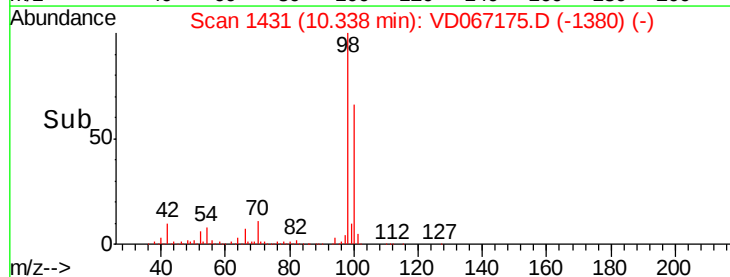
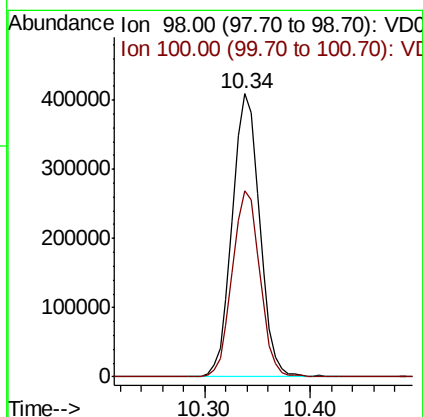
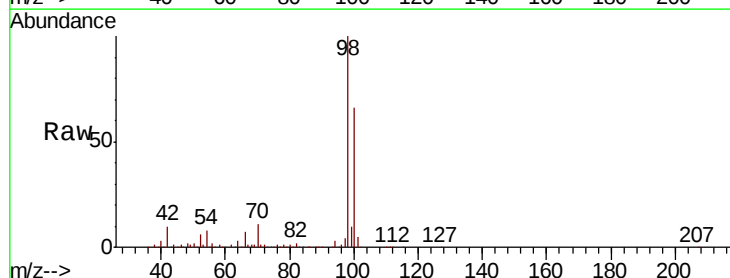
Instrument :  
MSVOA\_D  
ClientSampleId :  
OWLS-HEAD-BH-02-A

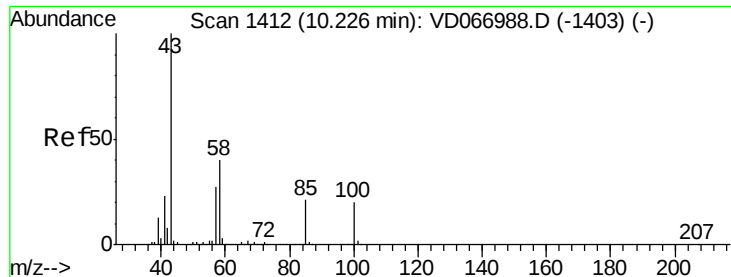
Tot Ion:117 Resp: 40591  
Ion Ratio Lower Upper  
117 100  
119 4.1 78.7 118.1#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 48.606 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

Tgt Ion: 98 Resp: 734576  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.8 79.2

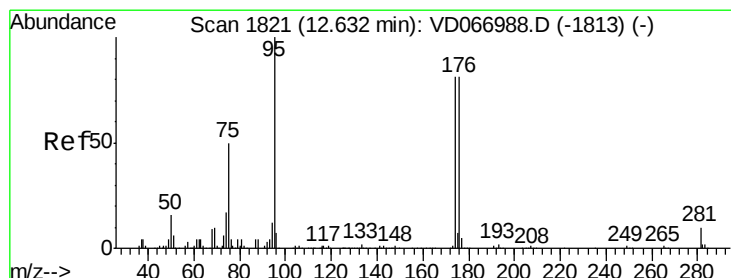
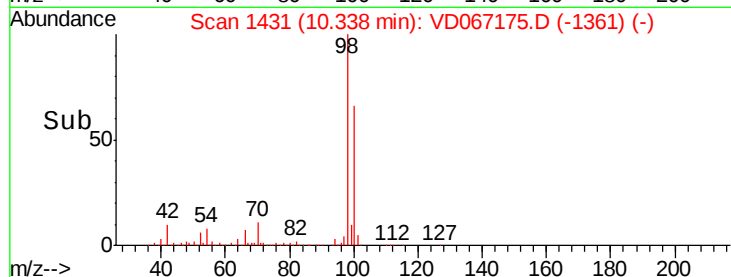
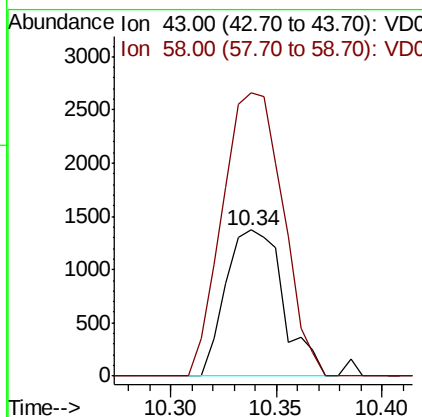
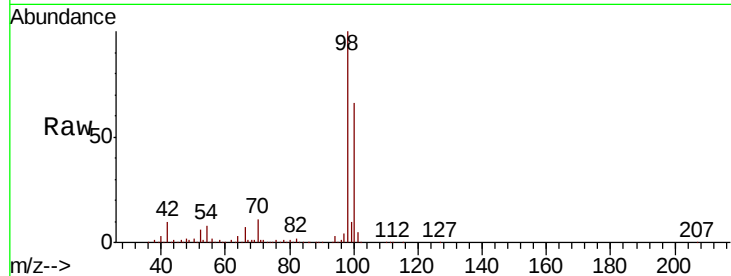




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.381 ug/l  
 RT: 10.34 min Scan# 1431  
 Delta R.T. 0.11 min  
 Lab File: VD067175.D  
 Acq: 08 Oct 2020 02:58

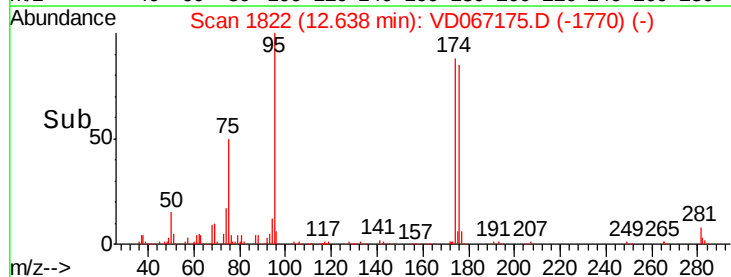
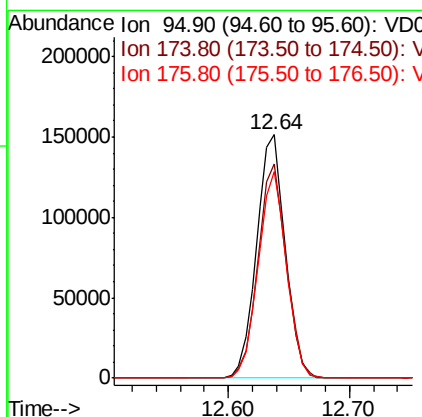
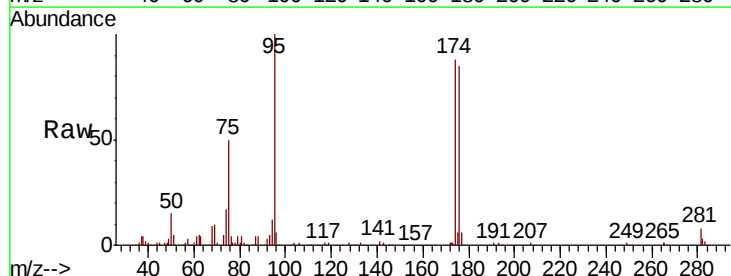
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OWLS-HEAD-BH-02-A

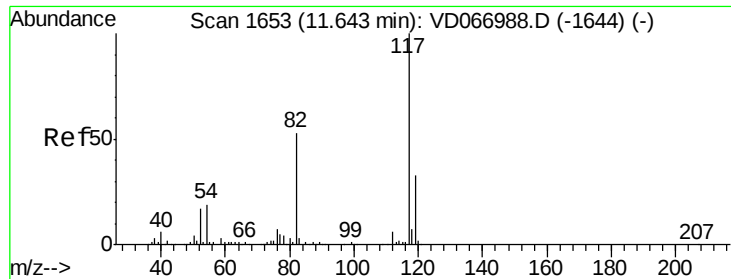
Tot Ion: 43 Resp: 2592  
 Ion Ratio Lower Upper  
 43 100  
 58 204.3 33.8 50.8#



#62  
 4-Bromofluorobenzene  
 Concen: 48.503 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.01 min  
 Lab File: VD067175.D  
 Acq: 08 Oct 2020 02:58

Tgt Ion: 95 Resp: 248842  
 Ion Ratio Lower Upper  
 95 100  
 174 87.1 0.0 167.6  
 176 83.5 0.0 162.4

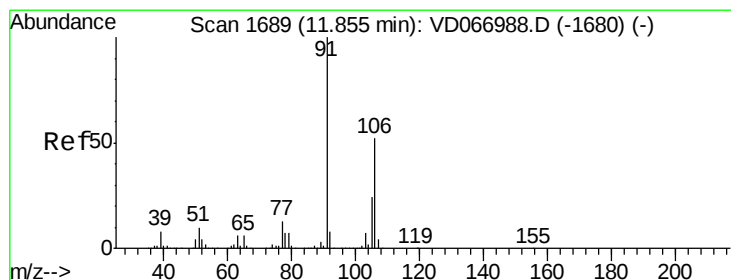
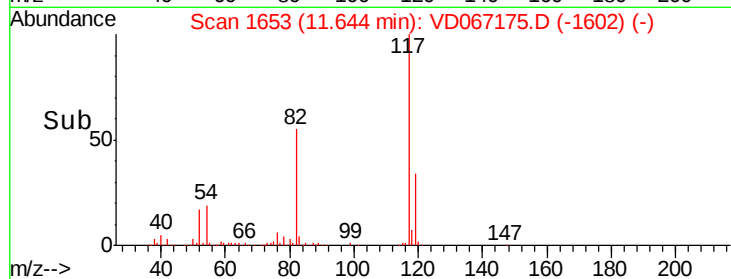
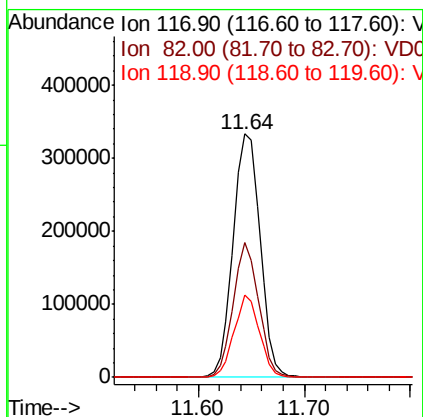
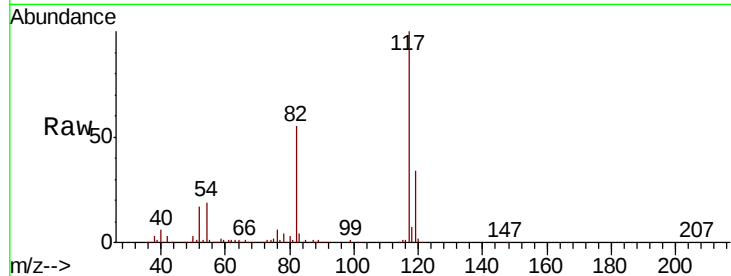




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

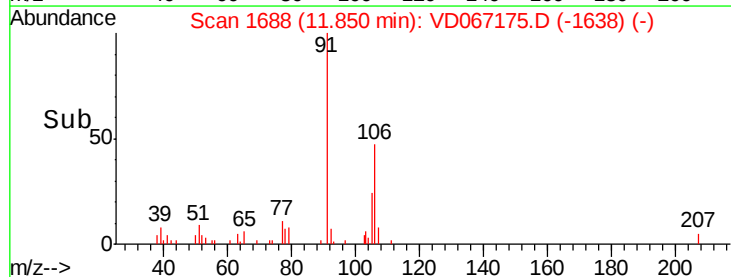
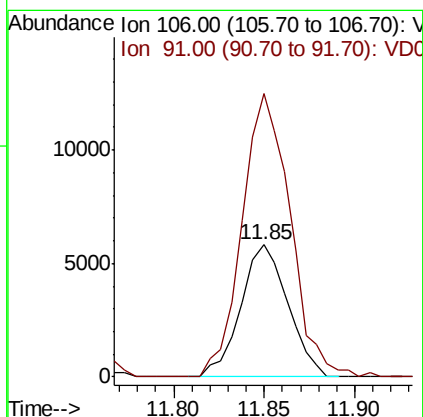
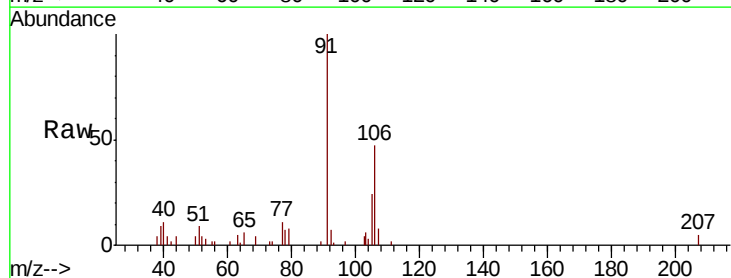
Instrument :  
MSVOA\_D  
ClientSampleId :  
OWLS-HEAD-BH-02-A

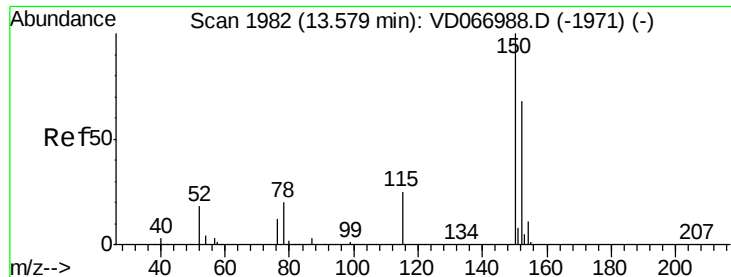
Tot Ion:117 Resp: 590521  
Ion Ratio Lower Upper  
117 100  
82 55.3 42.6 63.8  
119 33.9 26.3 39.5



#68  
m/p-Xylenes  
Concen: 1.341 ug/l  
RT: 11.85 min Scan# 1688  
Delta R.T. -0.01 min  
Lab File: VD067175.D  
Acq: 08 Oct 2020 02:58

Tgt Ion:106 Resp: 10513  
Ion Ratio Lower Upper  
106 100  
91 219.8 158.4 237.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067175.D

Acq: 08 Oct 2020 02:58

Instrument :

MSVOA\_D

ClientSampleId :

OWLS-HEAD-BH-02-A

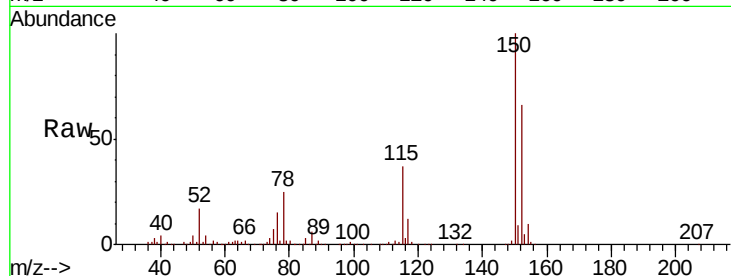
Tot Ion:152 Resp: 264267

Ion Ratio Lower Upper

152 100

115 58.4 29.6 88.8

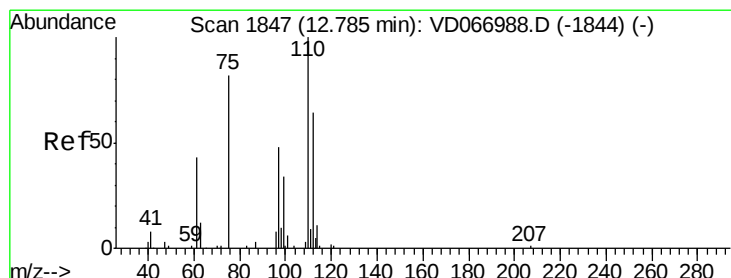
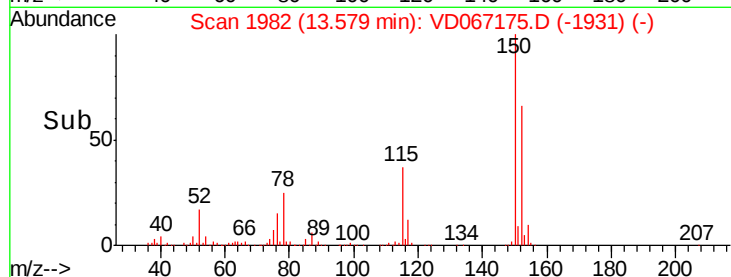
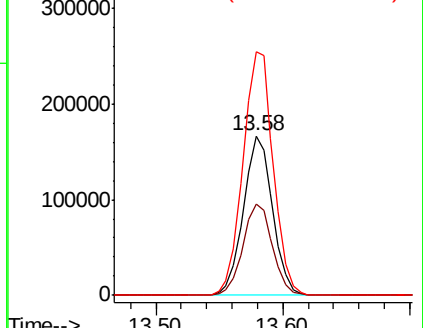
150 159.3 0.0 344.8



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: 55.841 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067175.D

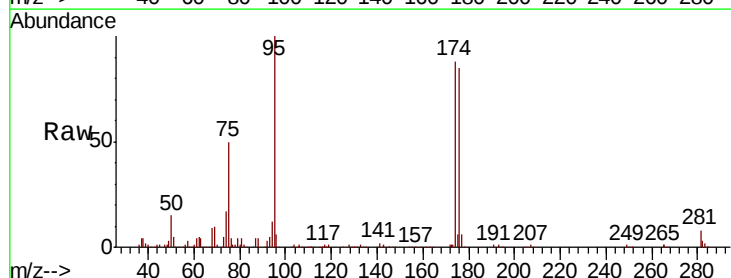
Acq: 08 Oct 2020 02:58

Tgt Ion: 75 Resp: 128538

Ion Ratio Lower Upper

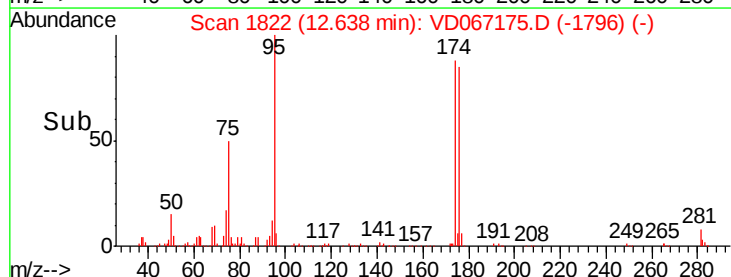
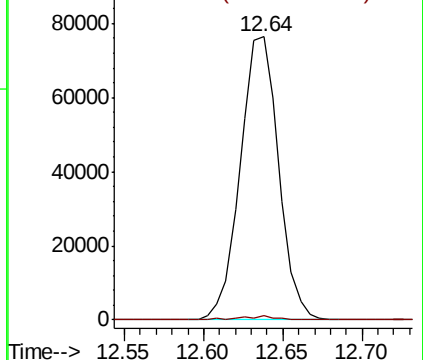
75 100

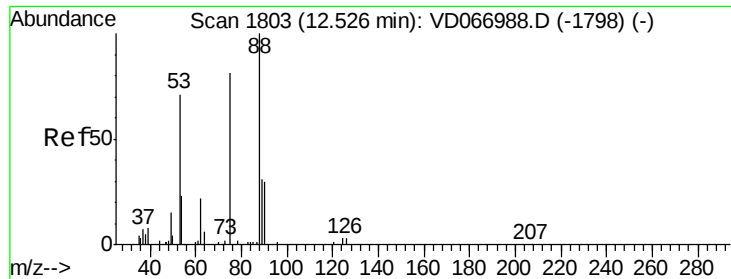
77 1.1 0.0 0.0#



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: 139.219 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067175.D

Acq: 08 Oct 2020 02:58

Instrument :

MSVOA\_D

ClientSampleId :

OWLS-HEAD-BH-02-A

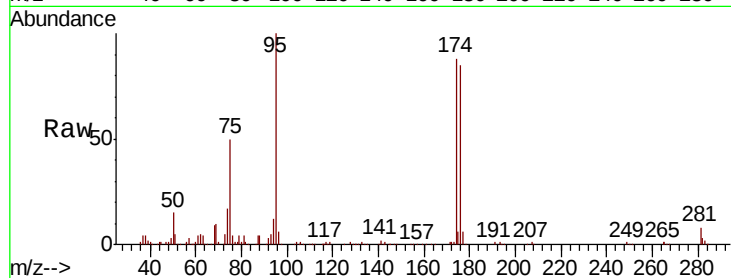
Tot Ion: 75 Resp: 128538

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.0 38.9 58.3#



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

