

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD081120\  
 Data File : VD066186.D  
 Acq On : 11 Aug 2020 15:03  
 Operator : VA/SY  
 Sample : L3637-13  
 Misc : 6.74G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CAR-WASH-AREA-2

Quant Time: Aug 11 15:35:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

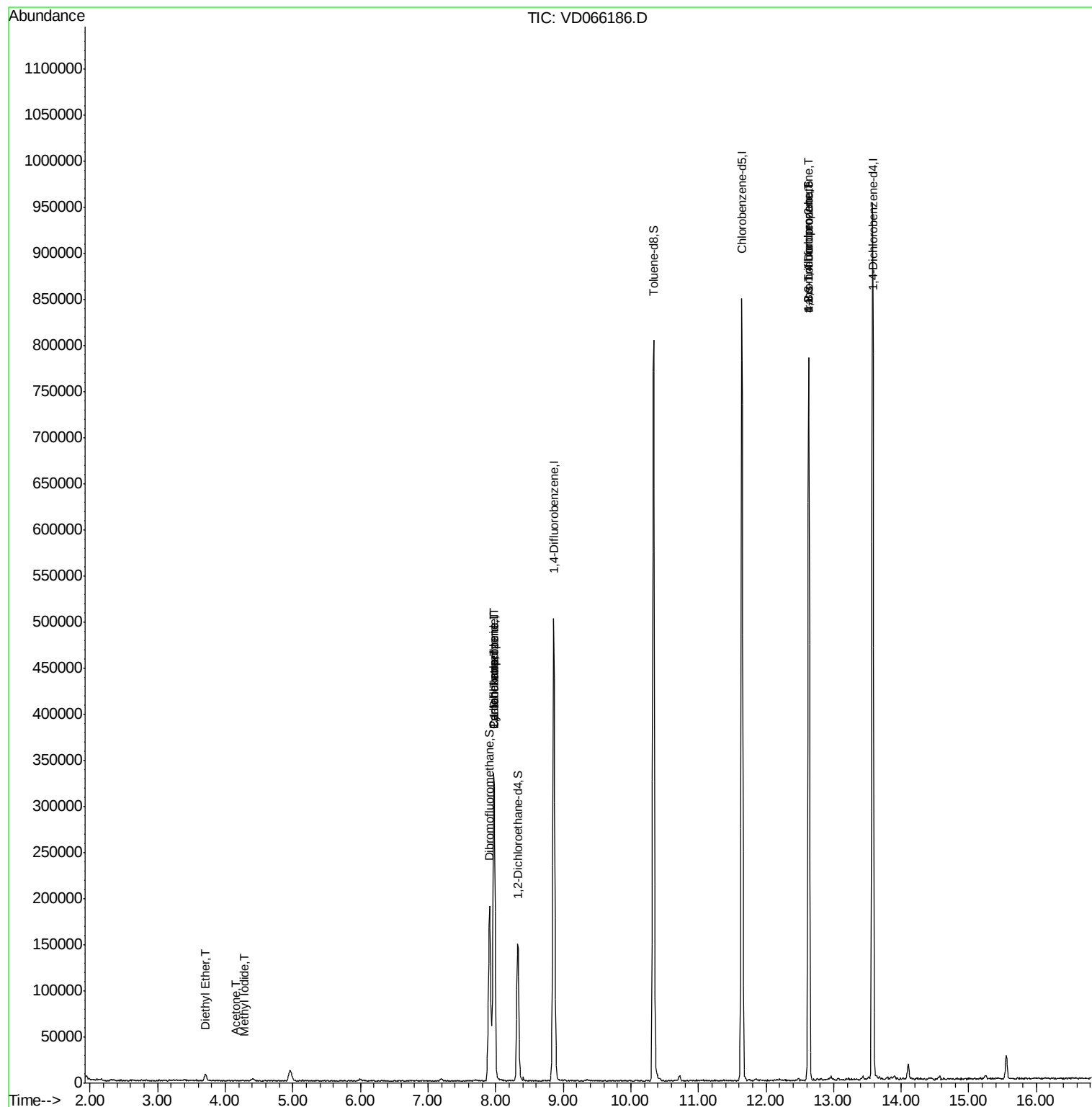
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.97  | 168  | 264544   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.86  | 114  | 438362   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.64 | 117  | 505359   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 267035   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 117416   | 49.75     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 99.50%  |          |
| 35) Dibromofluoromethane       | 7.91  | 113  | 135383   | 48.75     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 97.50%  |          |
| 50) Toluene-d8                 | 10.34 | 98   | 550216   | 53.69     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 107.38% |          |
| 62) 4-Bromofluorobenzene       | 12.63 | 95   | 243898   | 66.03     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 132.06% |          |
| Target Compounds               |       |      |          |           |         |          |
| 8) Diethyl Ether               | 3.70  | 74   | 4021     | 3.405     | ug/l    | 86       |
| 10) Methyl Iodide              | 4.28  | 142  | 193      | 6.785     | ug/l #  | 79       |
| 11) Tert butyl alcohol         | 5.23  | 59   | 118      | Below Cal | #       | 76       |
| 16) Acetone                    | 4.16  | 43   | 1433     | 3.200     | ug/l #  | 44       |
| 20) Methylene Chloride         | 4.96  | 84   | 8883     | Below Cal | #       | 90       |
| 31) Cyclohexane                | 7.98  | 56   | 5073     | 1.227     | ug/l #  | 38       |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 17357    | 4.214     | ug/l #  | 47       |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 24848    | 5.409     | ug/l #  | 13       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 121114   | 54.387    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 121114   | 120.226   | ug/l #  | 13       |

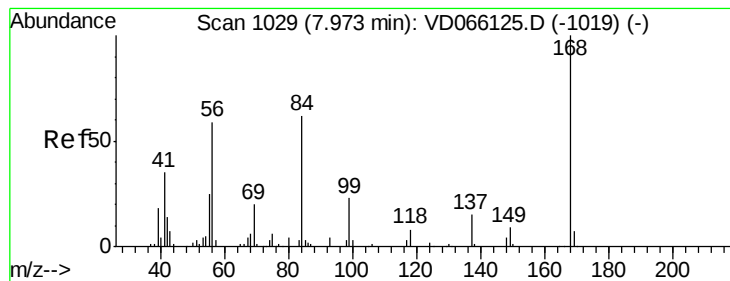
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:49:25 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066186.D

Acq: 11 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

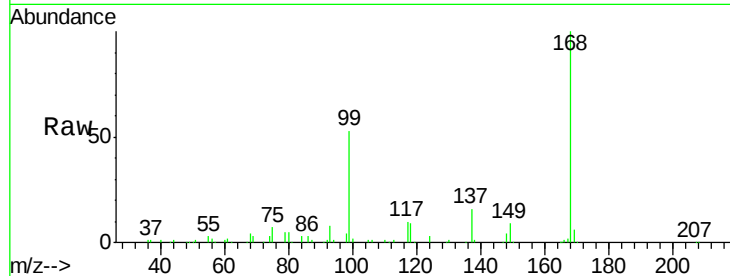
CAR-WASH-AREA-2

Tgt Ion:168 Resp: 264544

Ion Ratio Lower Upper

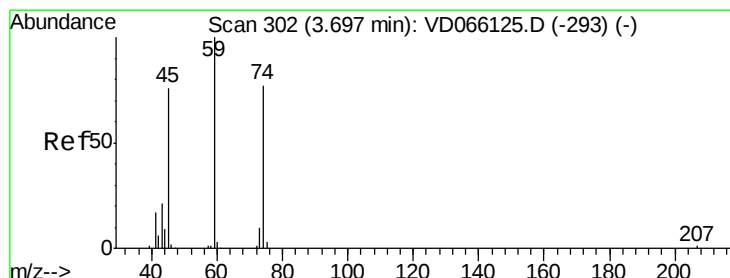
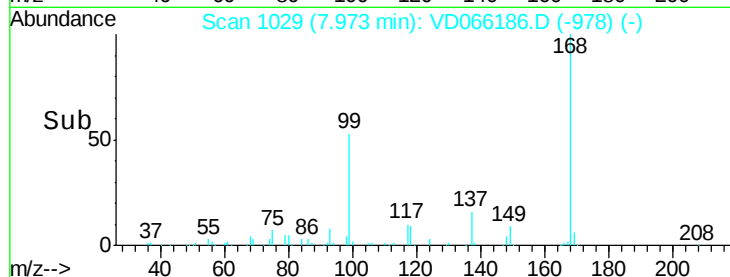
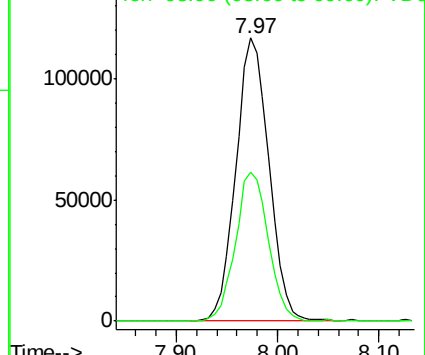
168 100

99 52.5 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#8

Diethyl Ether

Concen: 3.405 ug/l

RT: 3.70 min Scan# 303

Delta R.T. 0.01 min

Lab File: VD066186.D

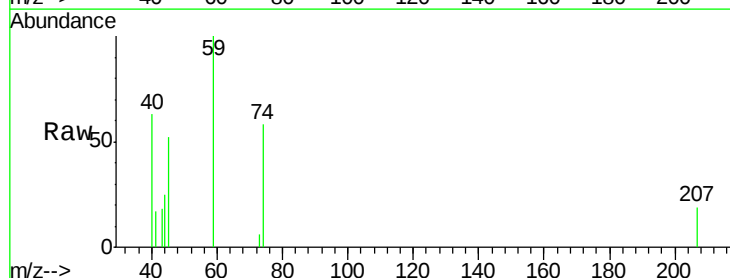
Acq: 11 Aug 2020 15:03

Tgt Ion: 74 Resp: 4021

Ion Ratio Lower Upper

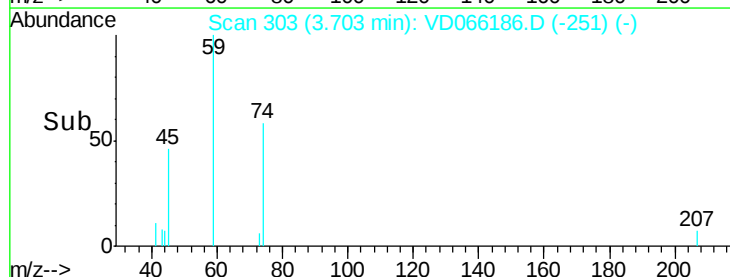
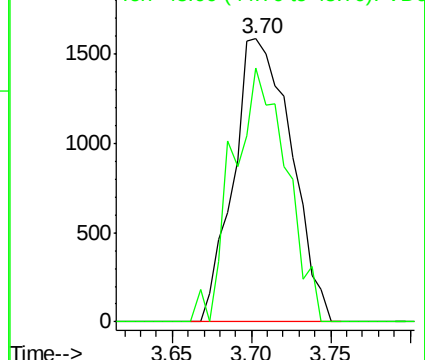
74 100

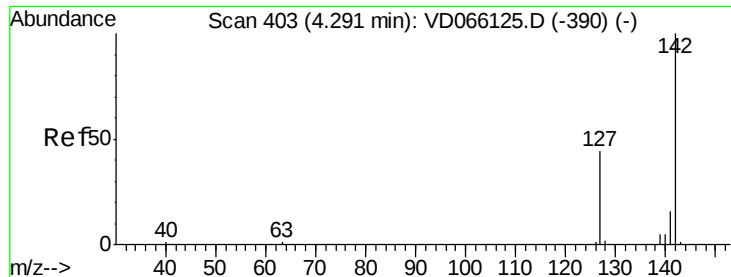
45 83.5 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

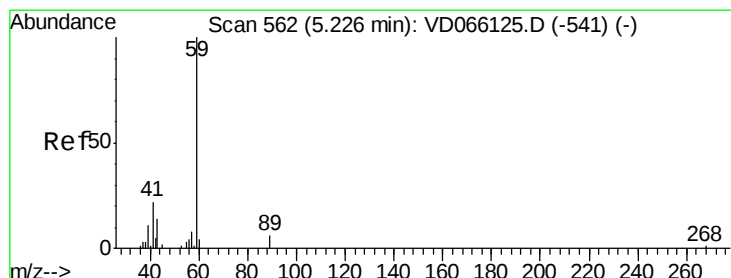
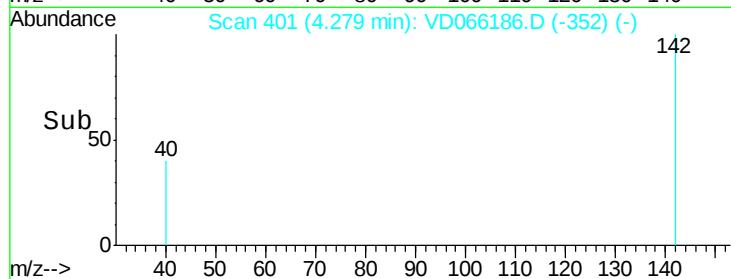
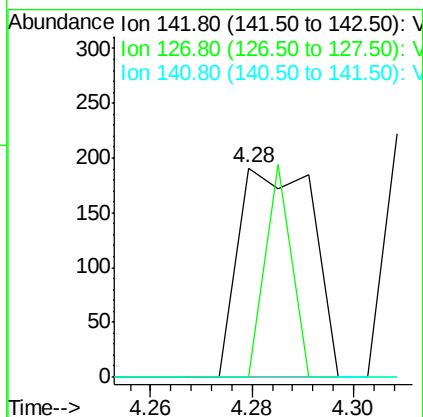
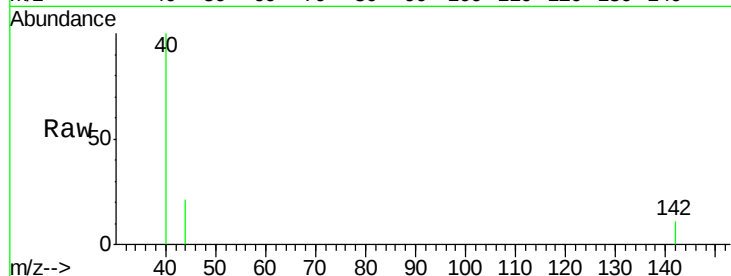




#10  
Methyl Iodide  
Concen: 6.785 ug/l  
RT: 4.28 min Scan# 401  
Delta R.T. -0.01 min  
Lab File: VD066186.D  
Acq: 11 Aug 2020 15:03

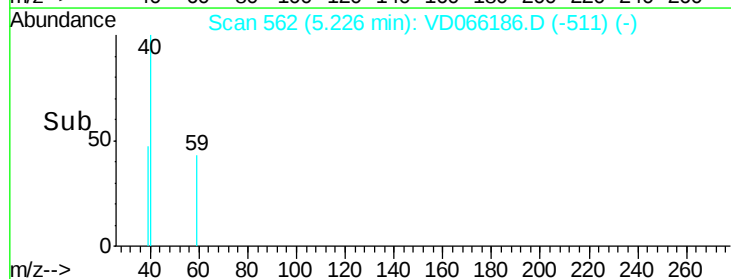
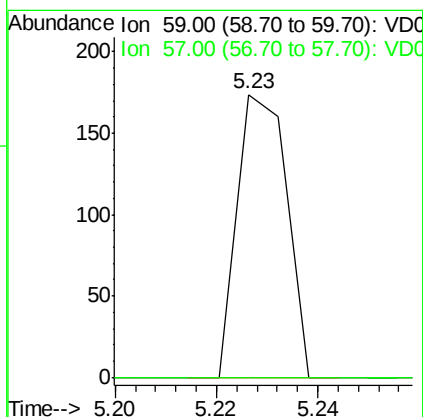
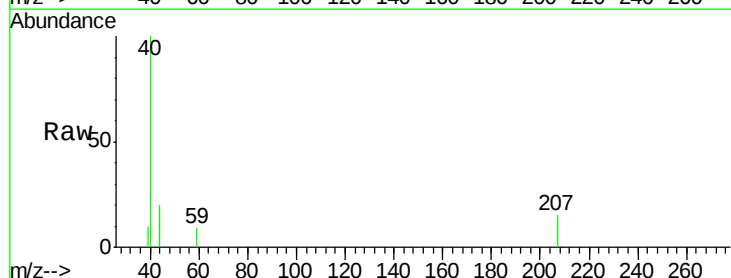
Instrument :  
MSVOA\_D  
ClientSampleId :  
CAR-WASH-AREA-2

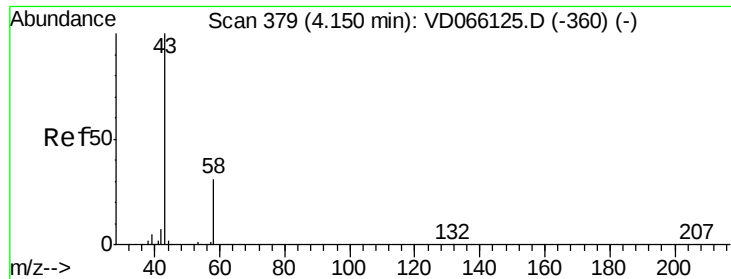
Tgt Ion:142 Resp: 193  
Ion Ratio Lower Upper  
142 100  
127 35.2 36.2 54.4#  
141 0.0 12.6 18.8#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.23 min Scan# 562  
Delta R.T. 0.00 min  
Lab File: VD066186.D  
Acq: 11 Aug 2020 15:03

Tgt Ion: 59 Resp: 118  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.0 10.4#





#16

Acetone

Concen: 3.200 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.01 min

Lab File: VD066186.D

Acq: 11 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

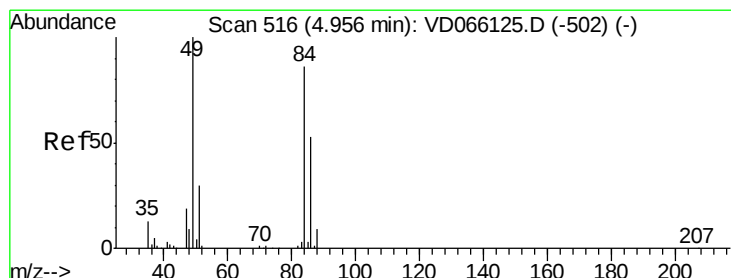
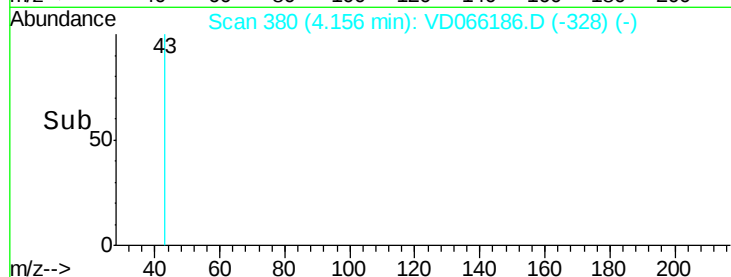
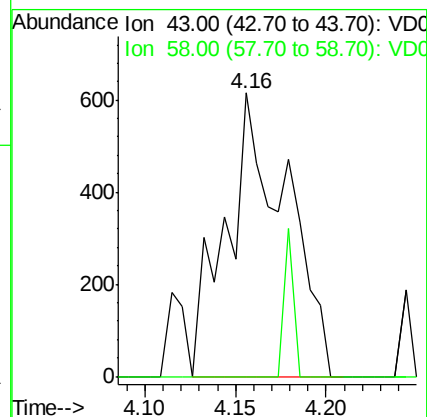
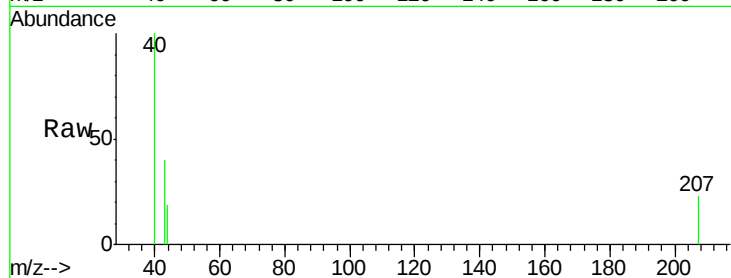
CAR-WASH-AREA-2

Tgt Ion: 43 Resp: 1433

Ion Ratio Lower Upper

43 100

58 0.0 24.7 37.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. 0.00 min

Lab File: VD066186.D

Acq: 11 Aug 2020 15:03

Tgt Ion: 84 Resp: 8883

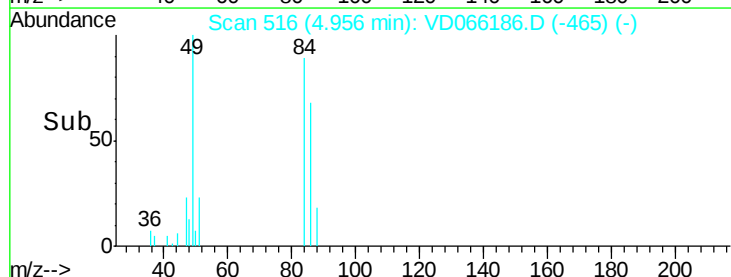
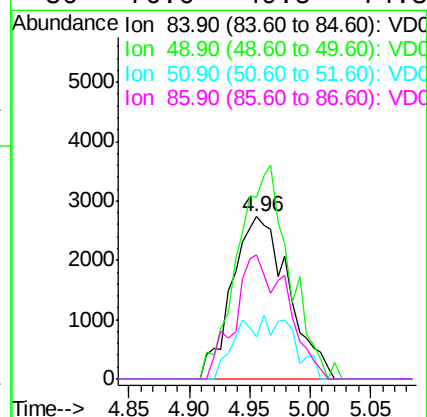
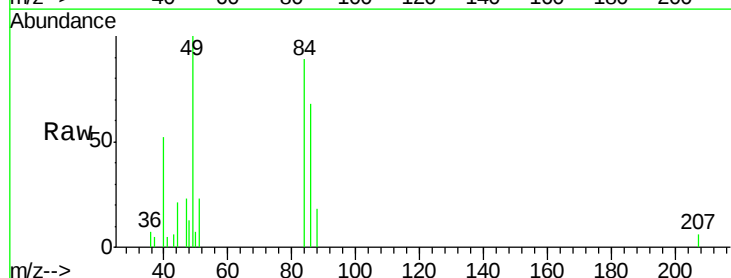
Ion Ratio Lower Upper

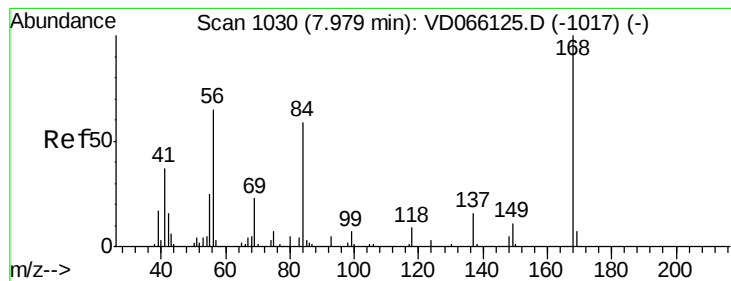
84 100

49 112.2 93.5 140.3

51 26.2 28.2 42.4#

86 76.6 49.5 74.3#





#31

Cyclohexane

Concen: 1.227 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066186.D

Acq: 11 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

CAR-WASH-AREA-2

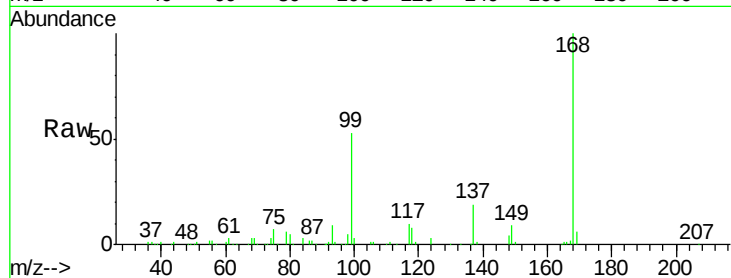
Tgt Ion: 56 Resp: 5073

Ion Ratio Lower Upper

56 100

69 126.8 28.8 43.2#

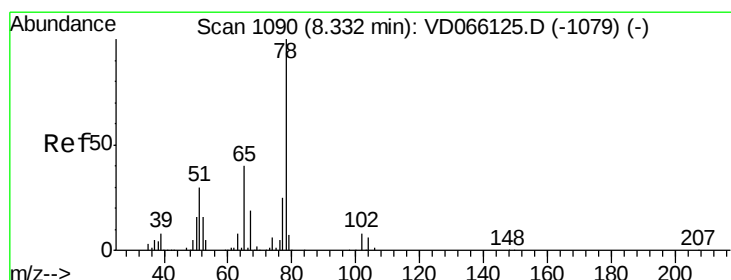
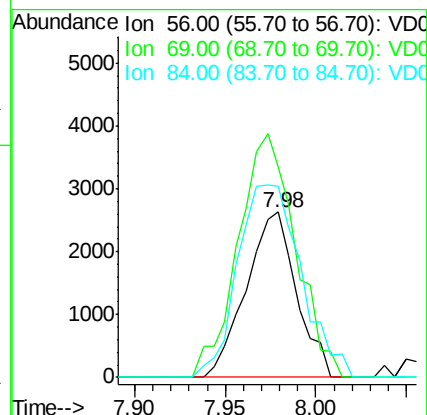
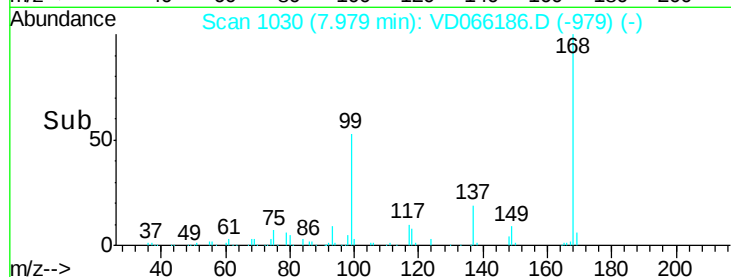
84 115.3 73.0 109.6#



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: 49.750 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066186.D

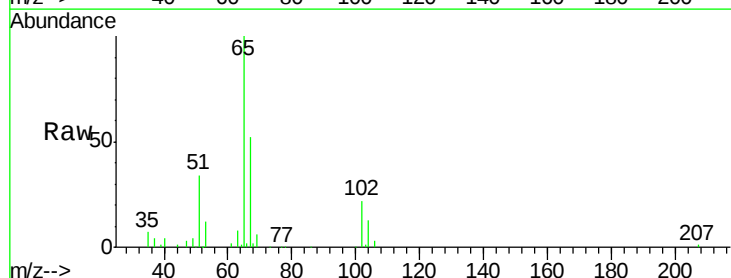
Acq: 11 Aug 2020 15:03

Tgt Ion: 65 Resp: 117416

Ion Ratio Lower Upper

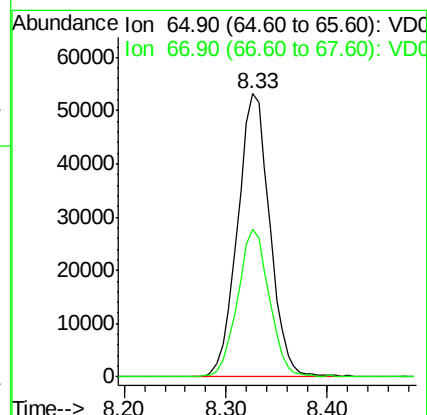
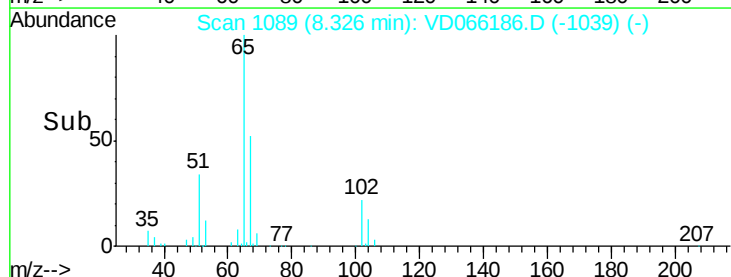
65 100

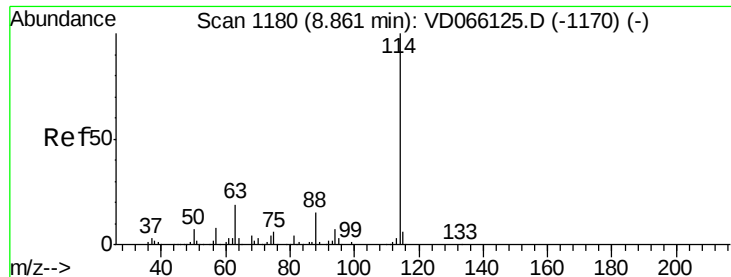
67 51.3 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

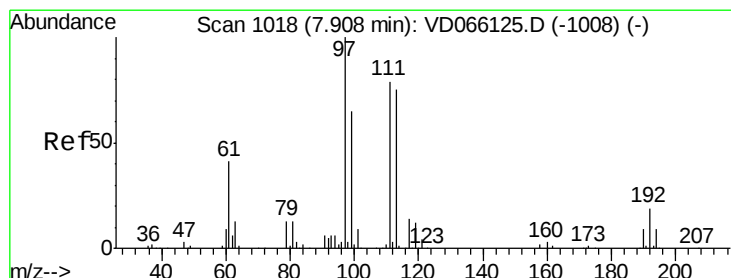
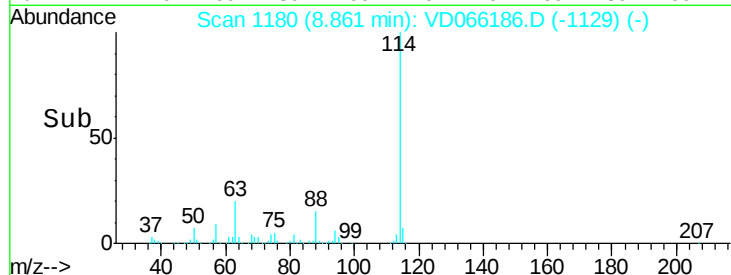
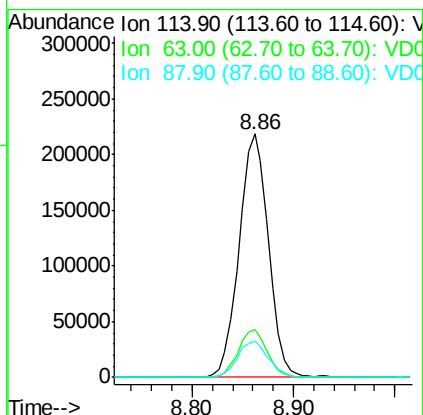
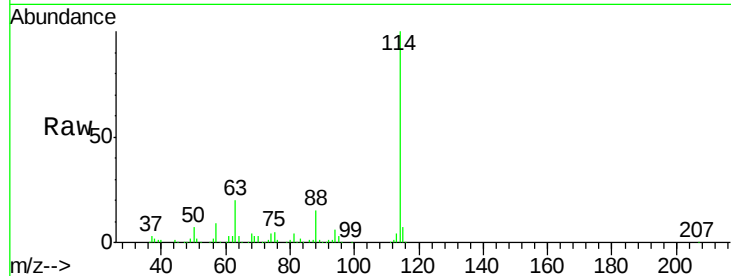




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066186.D  
 Acq: 11 Aug 2020 15:03

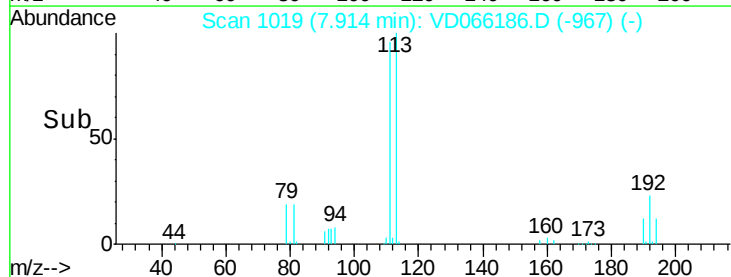
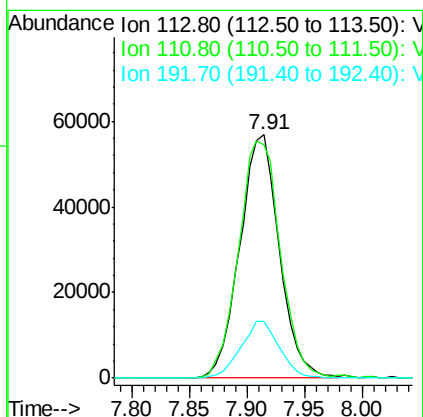
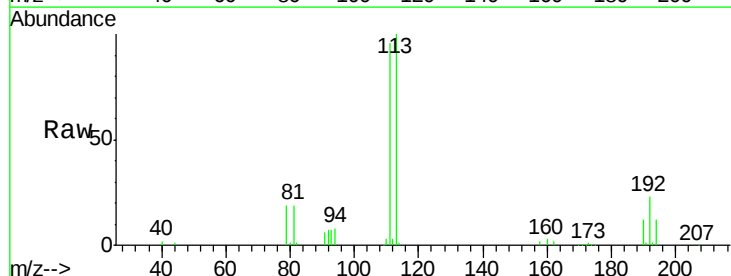
Instrument :  
 MSVOA\_D  
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 CAR-WASH-AREA-2

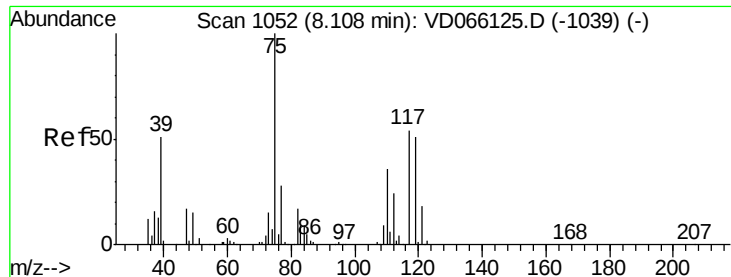
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.5  | 0.0   | 38.6  |
| 88      | 15.1  | 0.0   | 30.0  |



#35  
 Dibromofluoromethane  
 Concen: 48.752 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.01 min  
 Lab File: VD066186.D  
 Acq: 11 Aug 2020 15:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 80.7  | 121.1 |
| 192     | 22.9  | 18.4  | 27.6  |

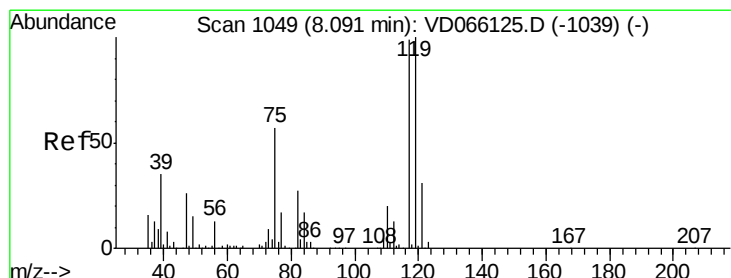
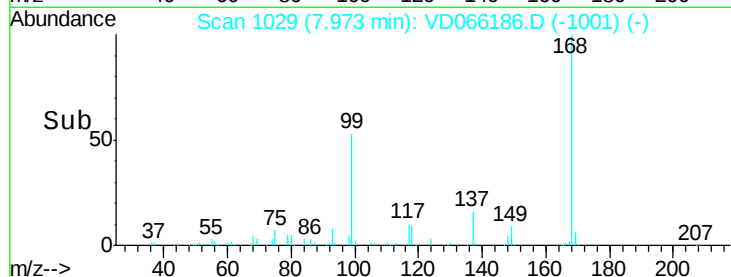
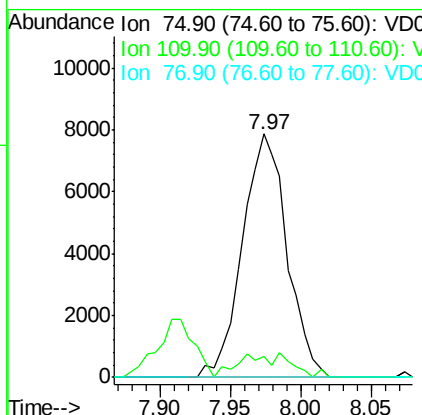
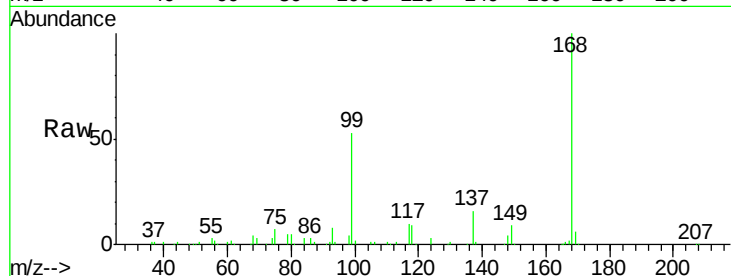




#36  
 1,1-Dichloropropene  
 Concen: 4.214 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066186.D  
 Acq: 11 Aug 2020 15:03

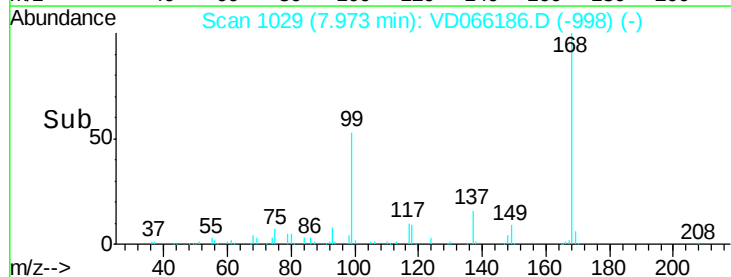
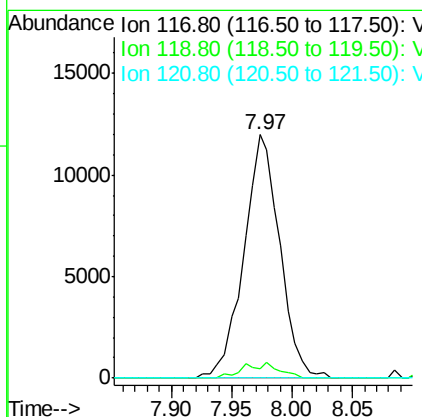
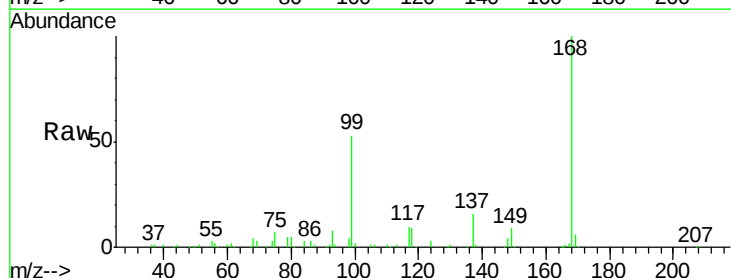
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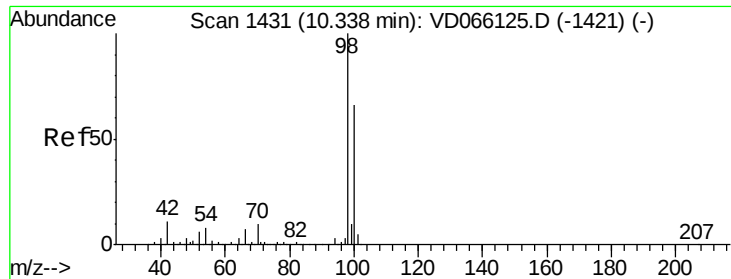
Tgt Ion: 75 Resp: 17357  
 Ion Ratio Lower Upper  
 75 100  
 110 6.9 18.8 56.3#  
 77 0.0 24.2 36.2#



#38  
 Carbon Tetrachloride  
 Concen: 5.409 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.12 min  
 Lab File: VD066186.D  
 Acq: 11 Aug 2020 15:03

Tgt Ion: 117 Resp: 24848  
 Ion Ratio Lower Upper  
 117 100  
 119 4.0 81.0 121.4#  
 121 0.0 24.8 37.2#

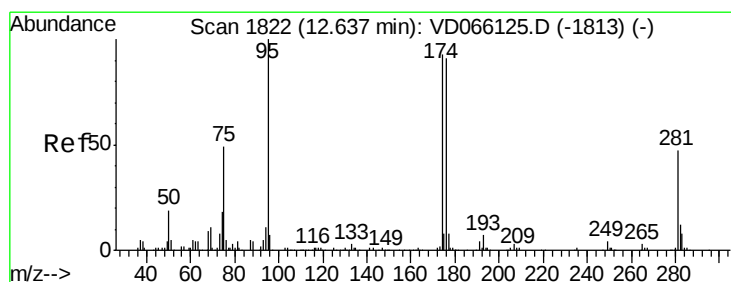
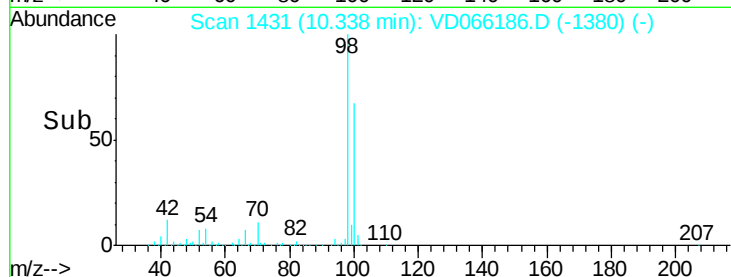
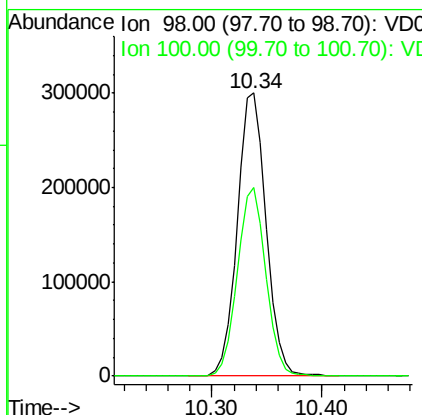
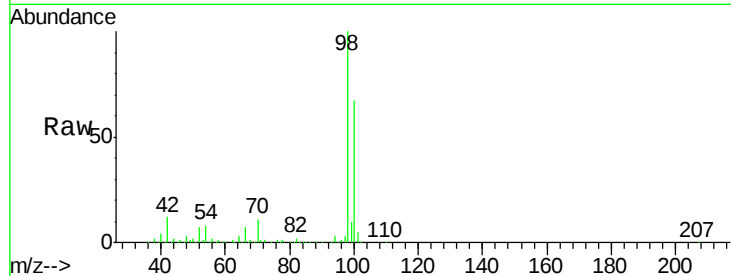




#50  
Toluene-d8  
Concen: 53.692 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD066186.D  
Acq: 11 Aug 2020 15:03

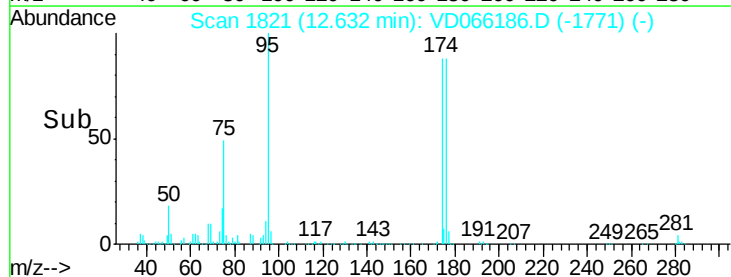
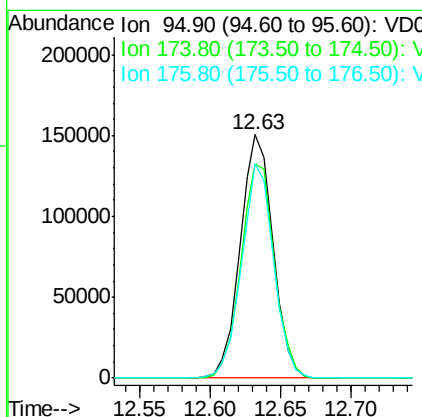
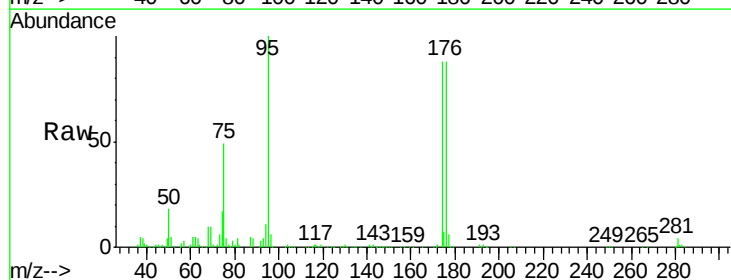
Instrument :  
MSVOA\_D  
ClientSampleId :  
CAR-WASH-AREA-2

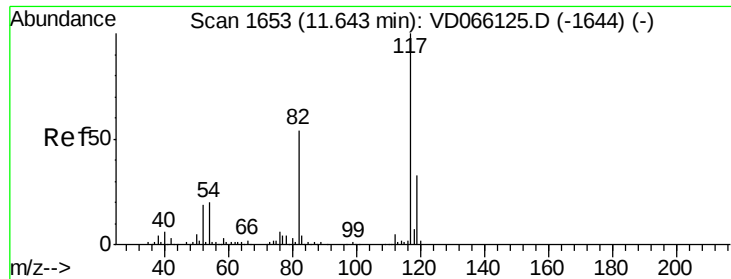
Tgt Ion: 98 Resp: 550216  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 66.027 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. -0.01 min  
Lab File: VD066186.D  
Acq: 11 Aug 2020 15:03

Tgt Ion: 95 Resp: 243898  
Ion Ratio Lower Upper  
95 100  
174 90.3 0.0 180.8  
176 86.4 0.0 181.2

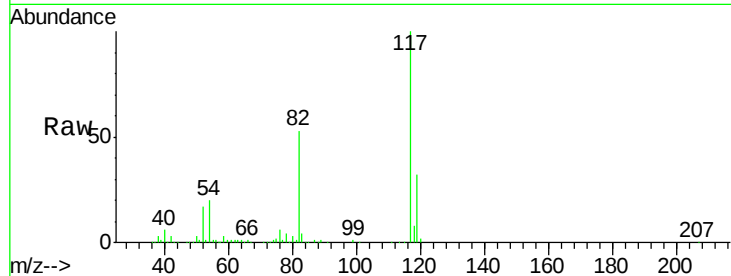




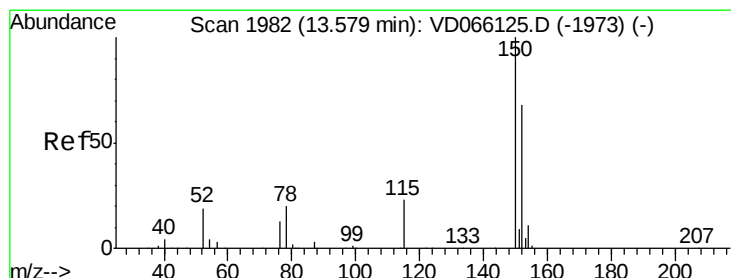
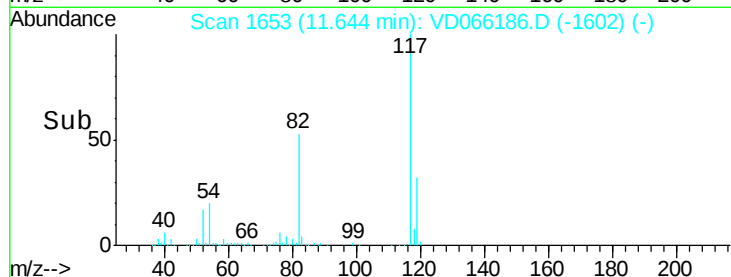
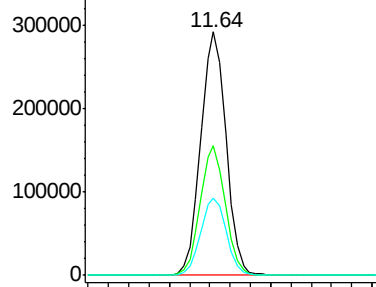
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066186.D  
Acq: 11 Aug 2020 15:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
CAR-WASH-AREA-2

Tgt Ion:117 Resp: 505359  
Ion Ratio Lower Upper  
117 100  
82 53.3 43.0 64.4  
119 31.7 26.1 39.1

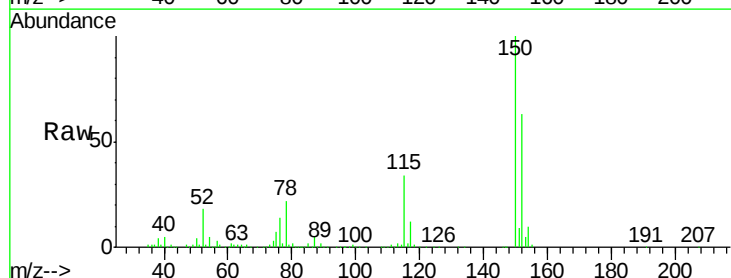


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

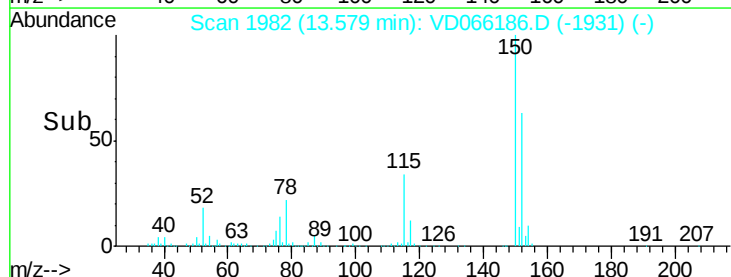
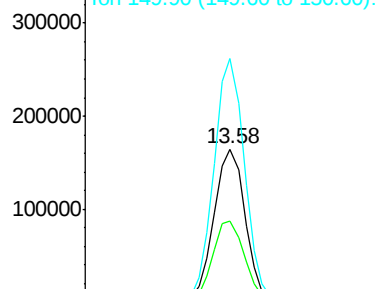


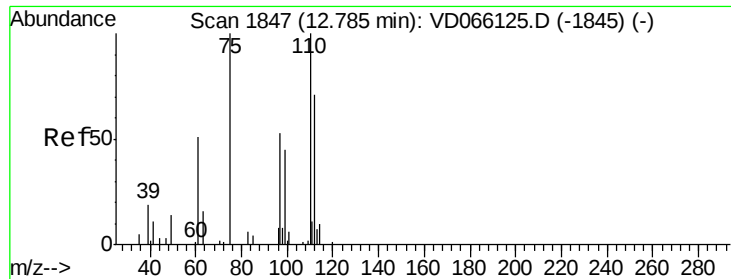
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066186.D  
Acq: 11 Aug 2020 15:03

Tgt Ion:152 Resp: 267035  
Ion Ratio Lower Upper  
152 100  
115 54.6 28.0 83.9  
150 156.4 0.0 346.4



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: 54.387 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066186.D

Acq: 11 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

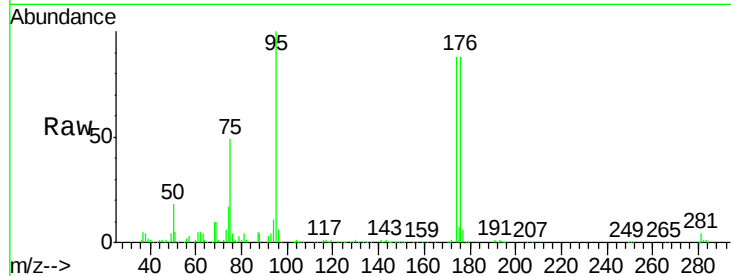
CAR-WASH-AREA-2

Tgt Ion: 75 Resp: 121114

Ion Ratio Lower Upper

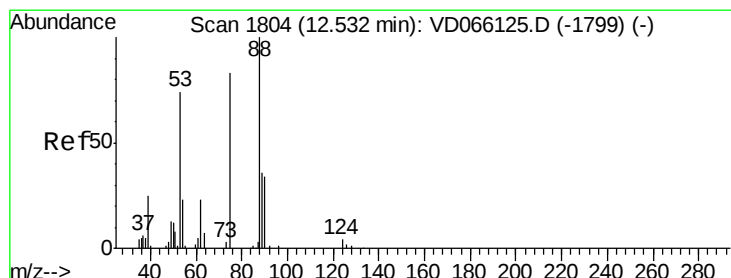
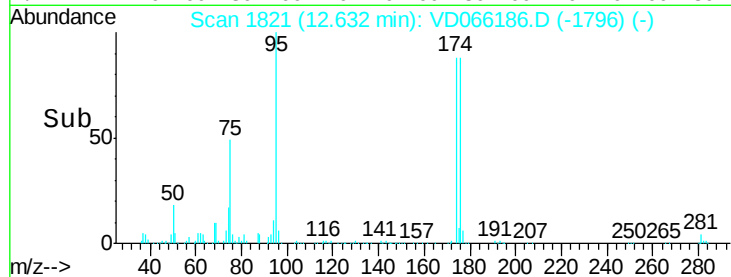
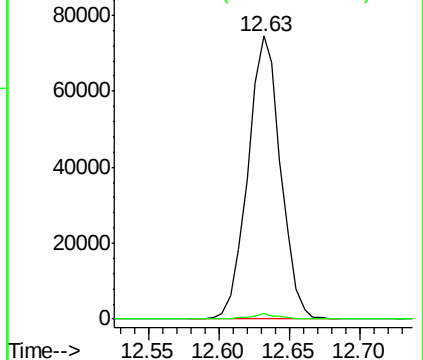
75 100

77 1.5 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: 120.226 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066186.D

Acq: 11 Aug 2020 15:03

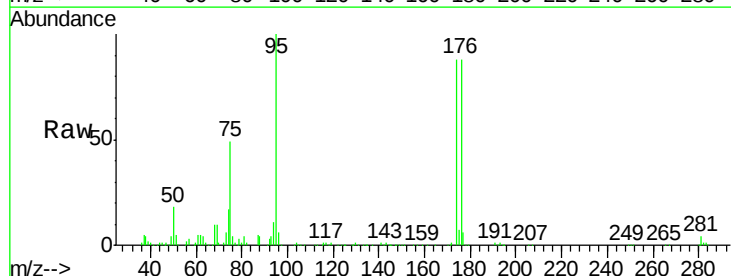
Tgt Ion: 75 Resp: 121114

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

89 0.0 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

