

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD090920\  
 Data File : VD066575.D  
 Acq On : 09 Sep 2020 11:35  
 Operator : VA/SY  
 Sample : VD0909SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0909SBL01

Quant Time: Sep 09 13:09:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D090320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 04 01:57:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 421014   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 733751   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 661420   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 295468   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 260636   | 51.17 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.34% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 244778   | 49.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.90%  |      |
| 50) Toluene-d8              | 10.34  | 98  | 869382   | 49.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.28%  |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 300790   | 51.27 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.54% |      |

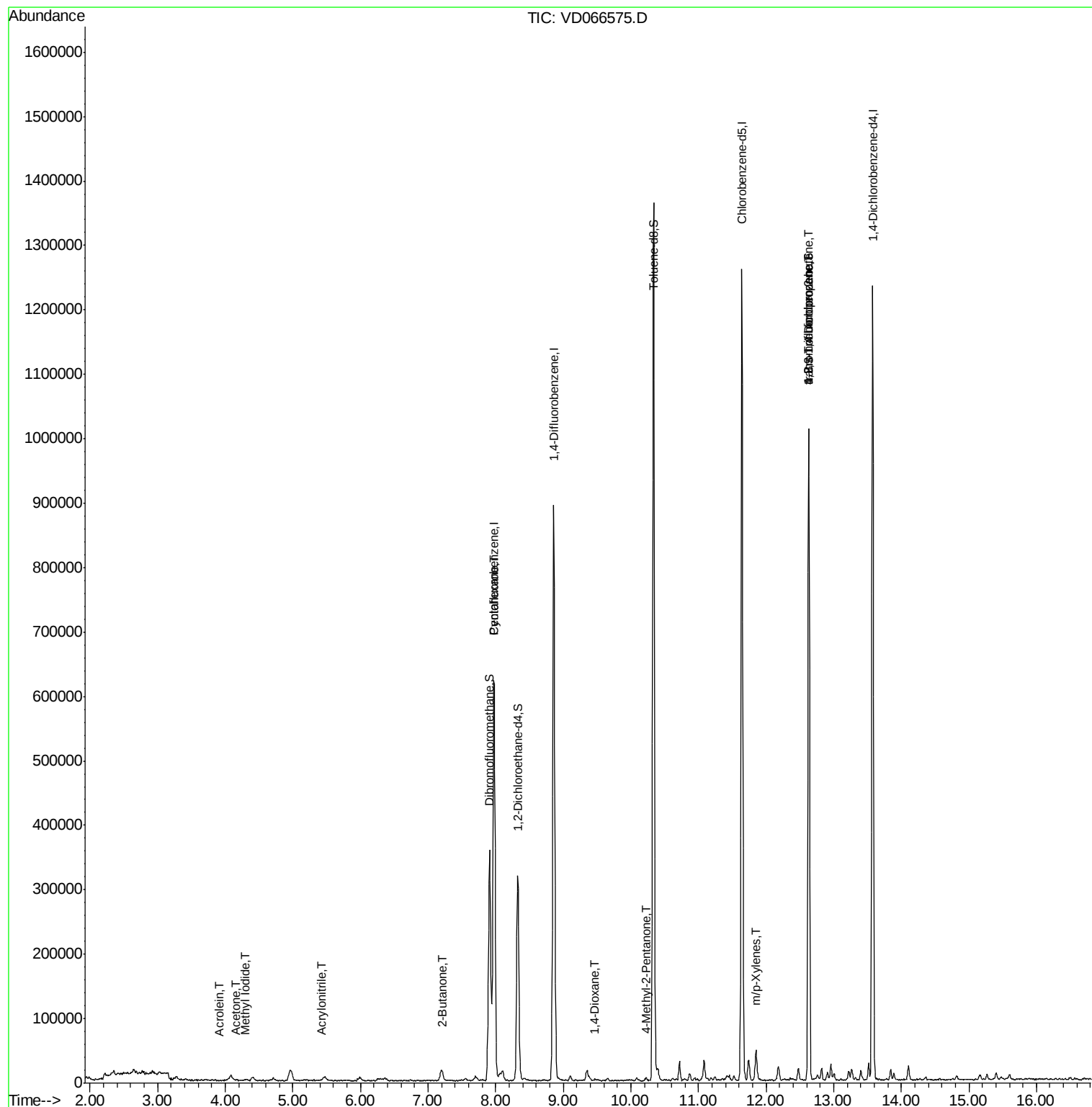
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 2923     | Below Cal |        | 94     |
| 5) Bromomethane                | 2.77  | 94   | 3419     | Below Cal |        | 92     |
| 10) Methyl Iodide              | 4.29  | 142  | 2671     | 4.594     | ug/l # | 37     |
| 11) Tert butyl alcohol         | 5.23  | 59   | 61       | Below Cal | #      | 74     |
| 13) Acrolein                   | 3.91  | 56   | 297      | 1.426     | ug/l # | 39     |
| 15) Acrylonitrile              | 5.43  | 53   | 1427     | 1.512     | ug/l # | 85     |
| 16) Acetone                    | 4.16  | 43   | 2909     | 3.104     | ug/l # | 74     |
| 20) Methylene Chloride         | 4.96  | 84   | 12882    | Below Cal | #      | 87     |
| 25) 2-Butanone                 | 7.21  | 43   | 1835     | 1.458     | ug/l   | 98     |
| 31) Cyclohexane                | 7.97  | 56   | 15830    | 1.905     | ug/l # | 47     |
| 49) 1,4-Dioxane                | 9.47  | 88   | 75       | 2.356     | ug/l # | 23     |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 3108     | 1.058     | ug/l   | 96     |
| 68) m/p-Xylenes                | 11.85 | 106  | 14984    | 1.610     | ug/l   | 93     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 168934   | 59.450    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 168934   | 138.795   | ug/l # | 7      |

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

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Sample : VD0909SBL01  
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VD0909SBL01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D090320S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 04 01:57:04 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066575.D

Acq: 09 Sep 2020 11:35

Instrument :

MSVOA\_D

ClientSampleId :

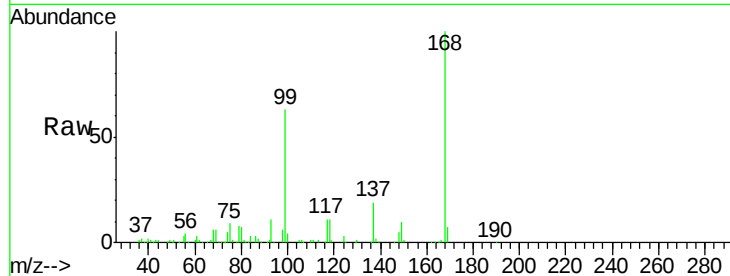
VD0909SBL01

Tgt Ion:168 Resp: 421014

Ion Ratio Lower Upper

168 100

99 62.8 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

200000

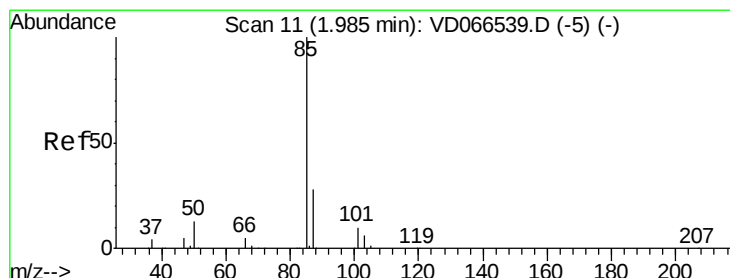
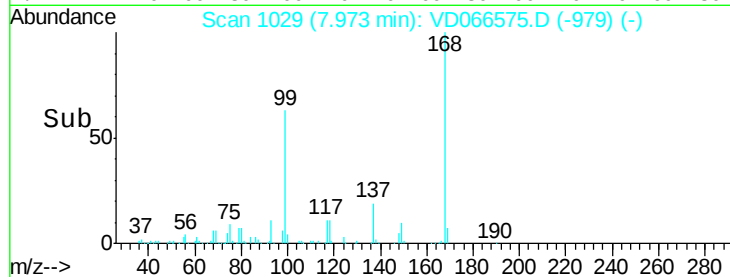
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066575.D

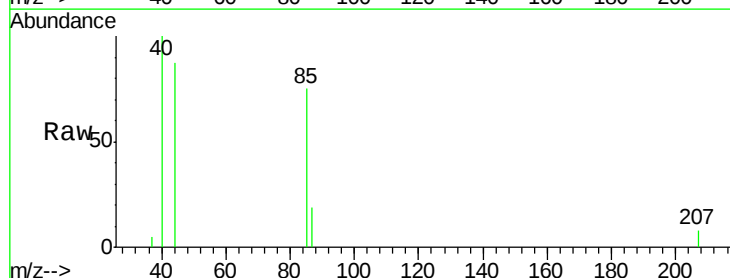
Acq: 09 Sep 2020 11:35

Tgt Ion: 85 Resp: 2923

Ion Ratio Lower Upper

85 100

87 25.5 14.2 42.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

2500

2000

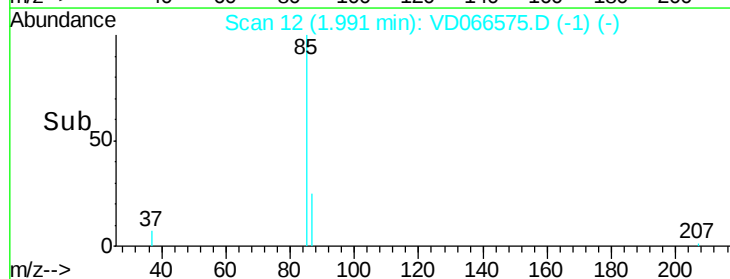
1500

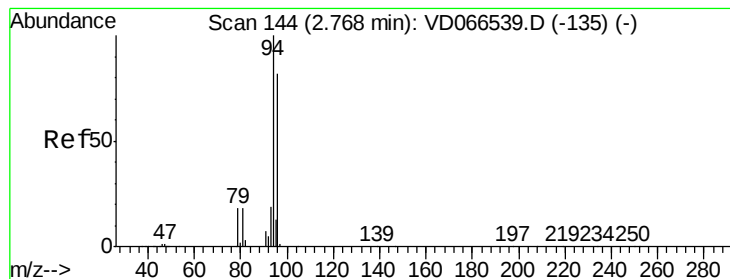
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD066575.D

Acq: 09 Sep 2020 11:35

Instrument :

MSVOA\_D

ClientSampleId :

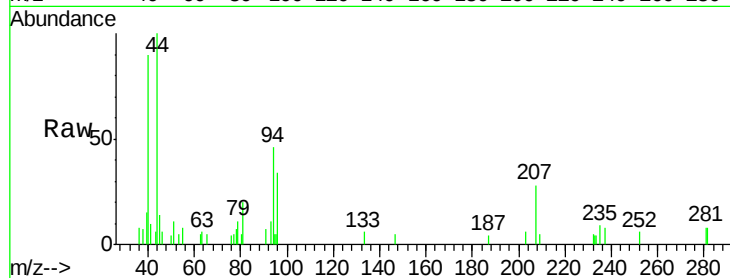
VD0909SBL01

Tgt Ion: 94 Resp: 3419

Ion Ratio Lower Upper

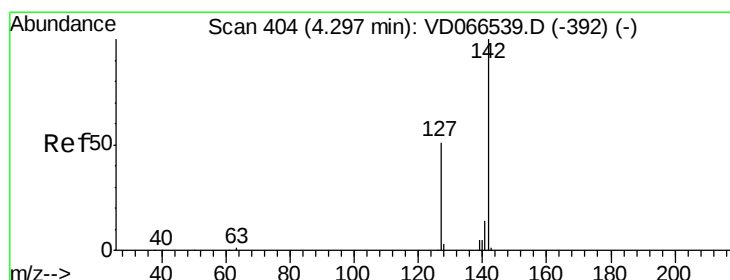
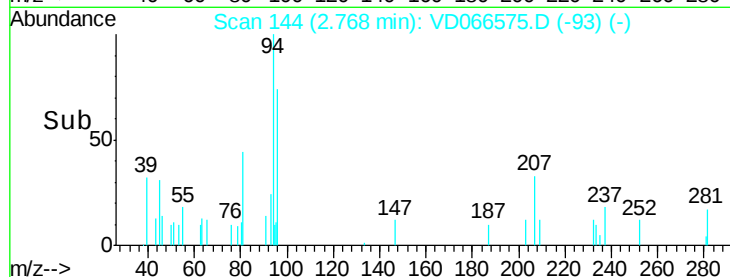
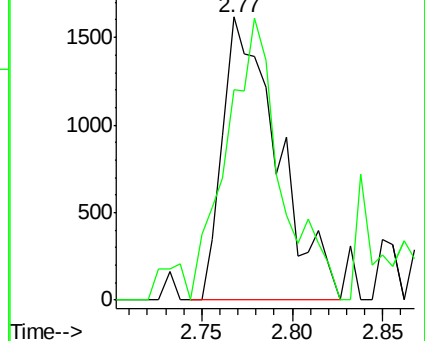
94 100

96 74.3 65.2 97.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 4.594 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD066575.D

Acq: 09 Sep 2020 11:35

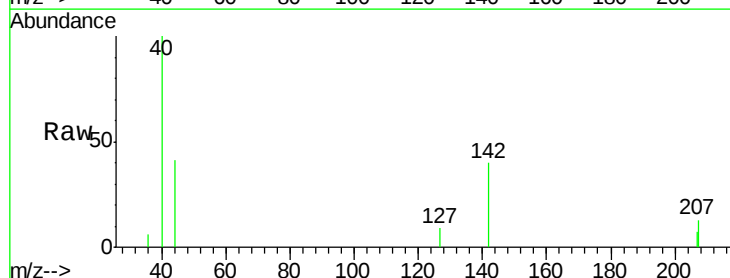
Tgt Ion: 142 Resp: 2671

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

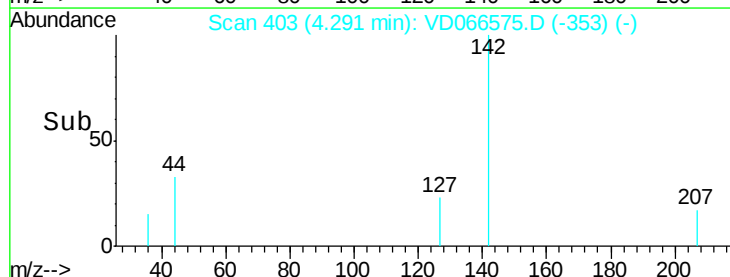
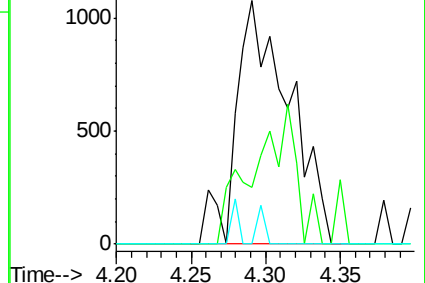
141 2.2 12.2 18.4#

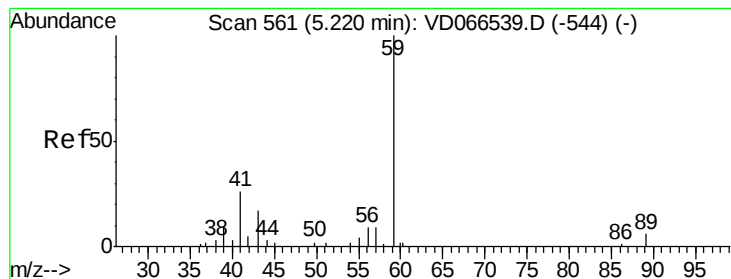


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



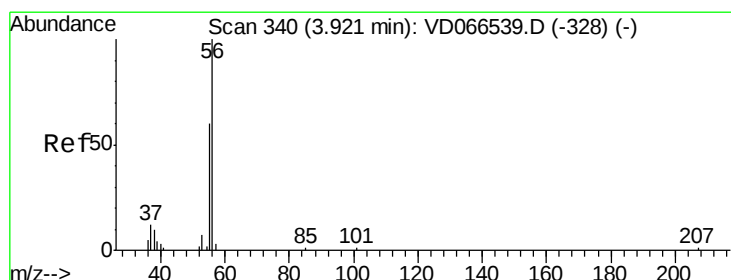
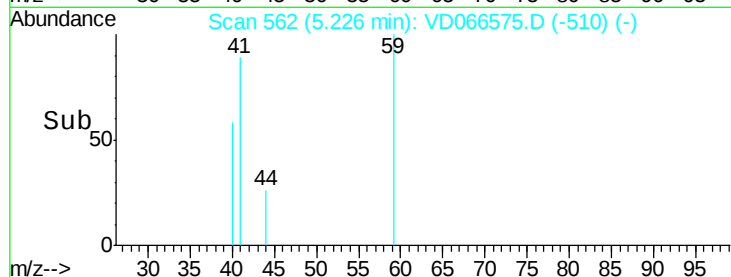
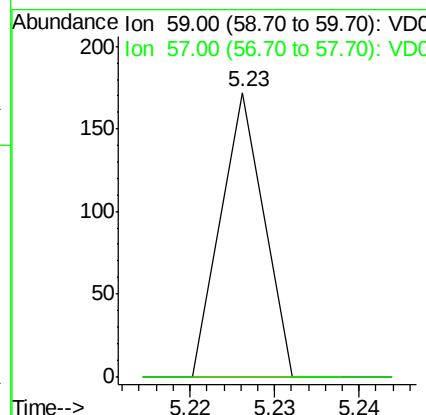
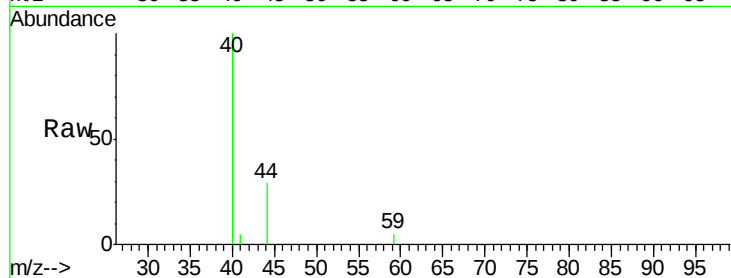


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.23 min Scan# 562  
 Delta R.T. 0.01 min  
 Lab File: VD066575.D  
 Acq: 09 Sep 2020 11:35

Instrument :  
 MSVOA\_D  
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 VD0909SBL01

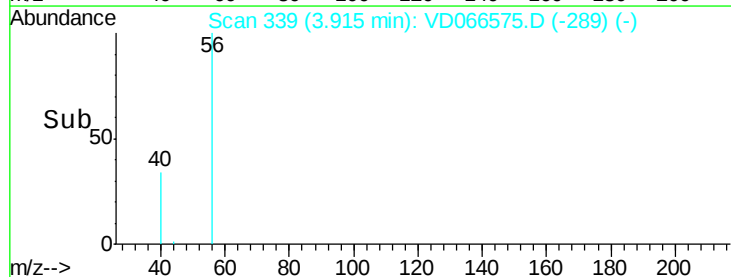
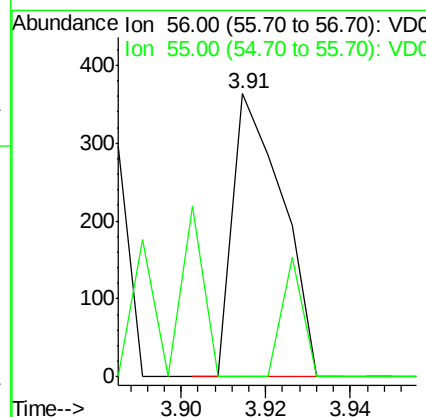
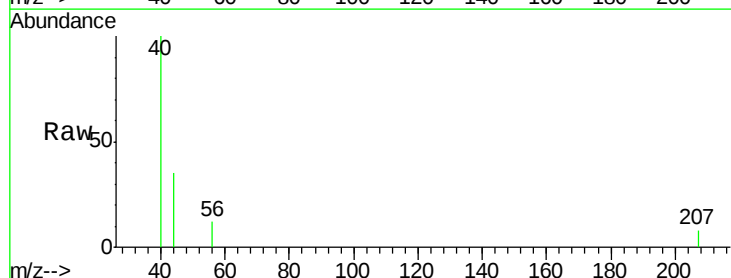
Tgt Ion: 59 Resp: 61  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.6 11.4#

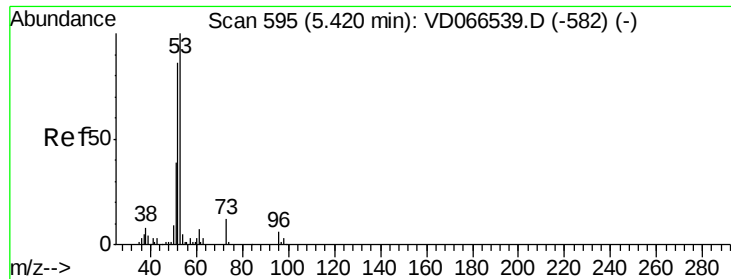


#13

Acrolein  
 Concen: 1.426 ug/l  
 RT: 3.91 min Scan# 339  
 Delta R.T. -0.01 min  
 Lab File: VD066575.D  
 Acq: 09 Sep 2020 11:35

Tgt Ion: 56 Resp: 297  
 Ion Ratio Lower Upper  
 56 100  
 55 18.2 53.6 80.4#

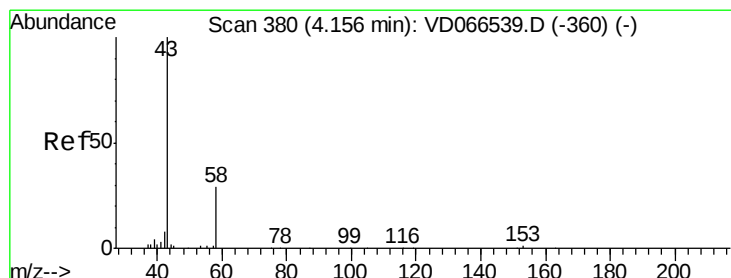
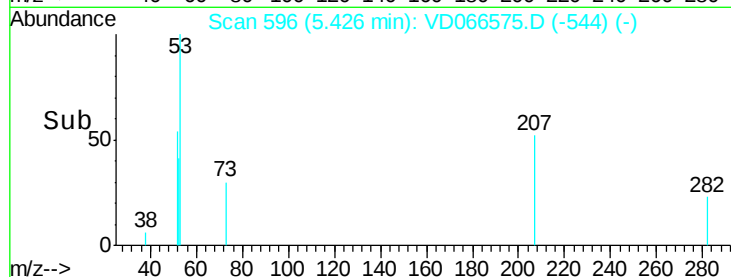
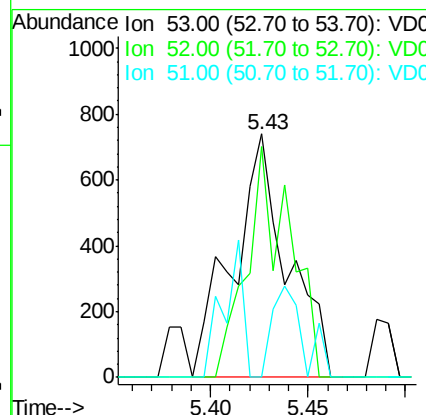
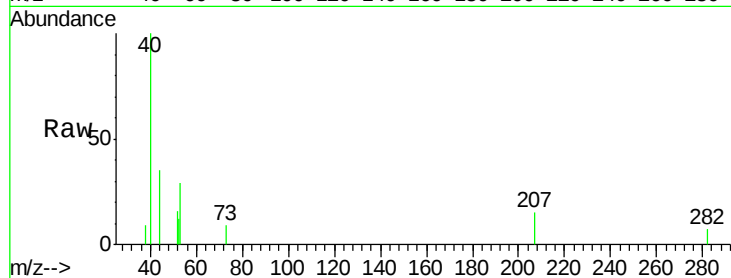




#15  
 Acrylonitrile  
 Concen: 1.512 ug/l  
 RT: 5.43 min Scan# 596  
 Delta R.T. 0.01 min  
 Lab File: VD066575.D  
 Acq: 09 Sep 2020 11:35

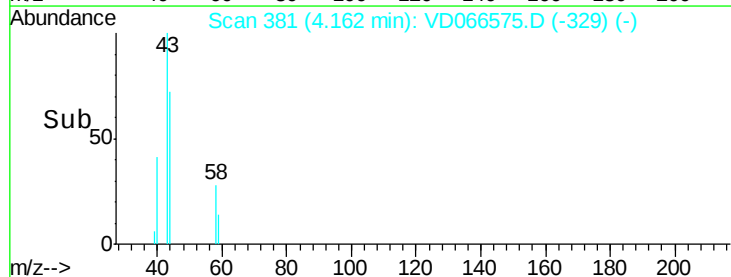
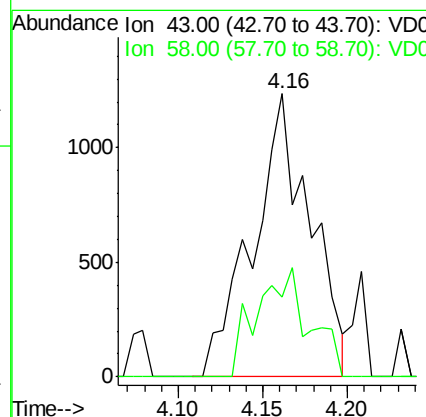
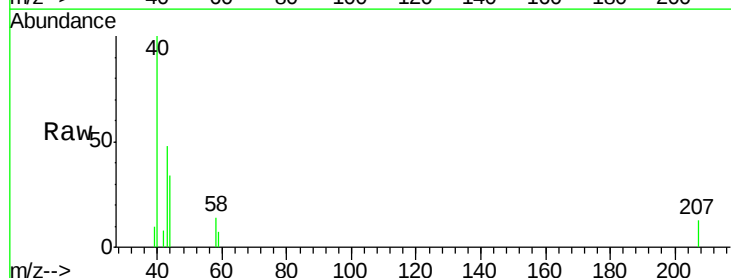
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0909SBL01

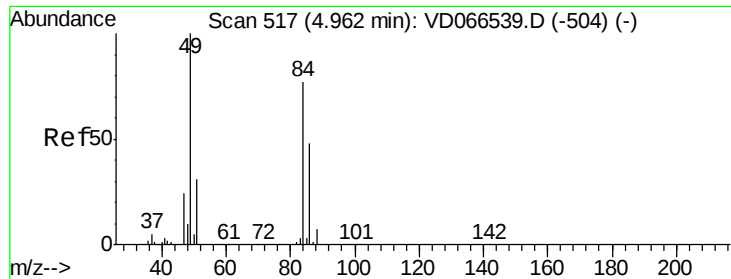
Tgt Ion: 53 Resp: 1427  
 Ion Ratio Lower Upper  
 53 100  
 52 74.5 65.4 98.2  
 51 21.5 31.2 46.8#



#16  
 Acetone  
 Concen: 3.104 ug/l  
 RT: 4.16 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VD066575.D  
 Acq: 09 Sep 2020 11:35

Tgt Ion: 43 Resp: 2909  
 Ion Ratio Lower Upper  
 43 100  
 58 42.2 22.9 34.3#

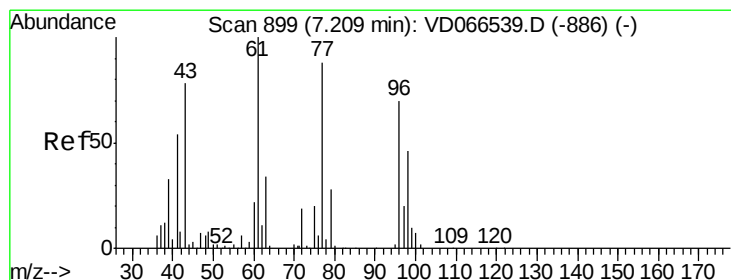
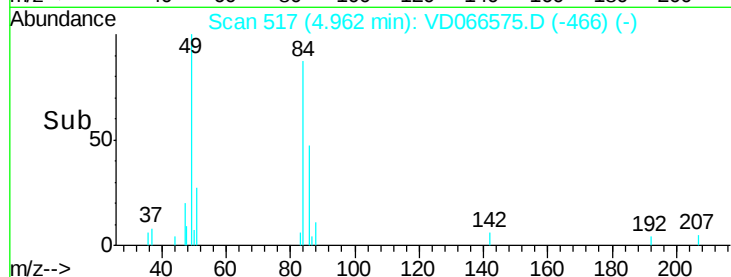
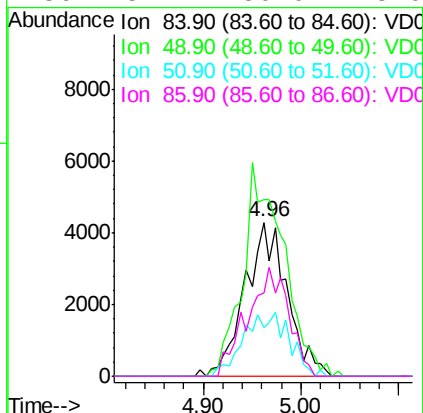
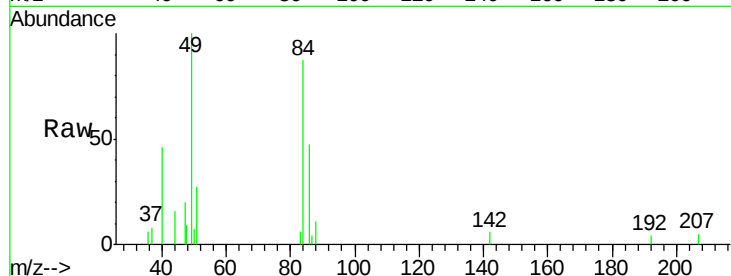




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

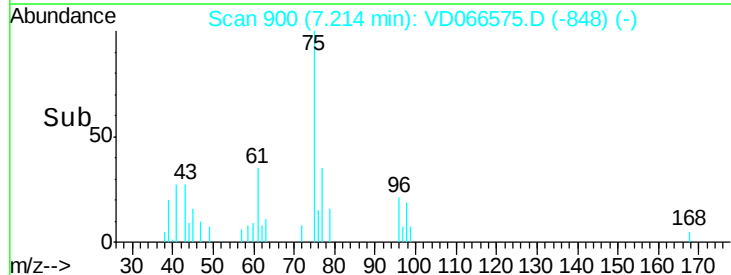
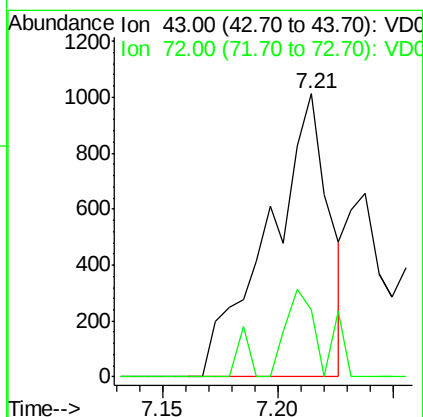
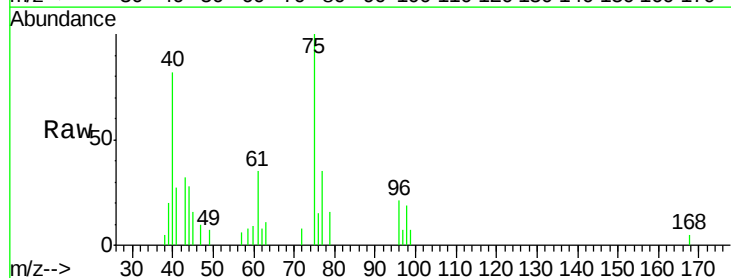
Instrument :  
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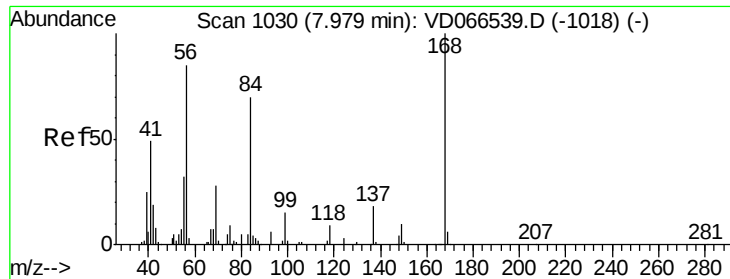
Tgt Ion: 84 Resp: 12882  
Ion Ratio Lower Upper  
84 100  
49 114.6 104.3 156.5  
51 31.3 32.2 48.4#  
86 54.2 50.0 75.0



#25  
2-Butanone  
Concen: 1.458 ug/l  
RT: 7.21 min Scan# 900  
Delta R.T. 0.01 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

Tgt Ion: 43 Resp: 1835  
Ion Ratio Lower Upper  
43 100  
72 23.8 19.8 29.6

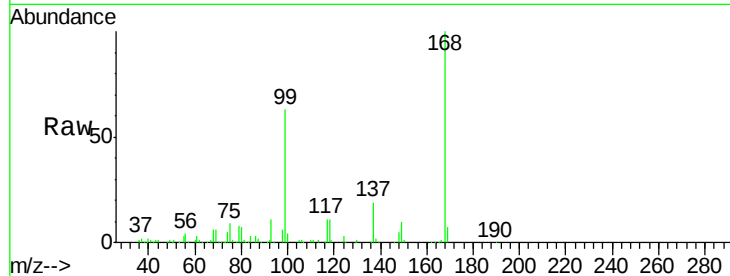




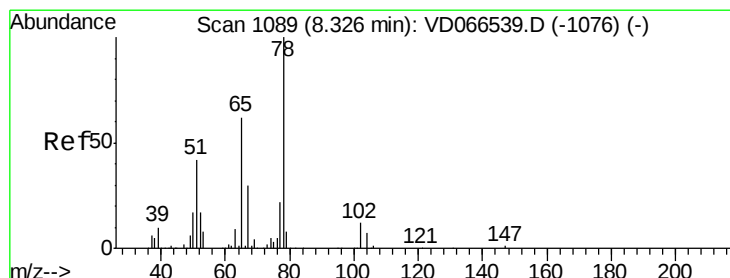
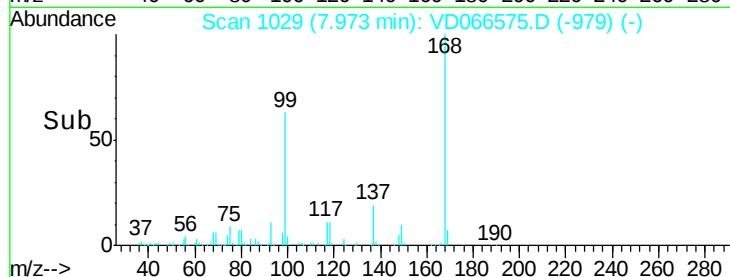
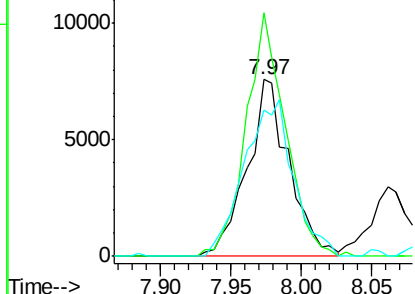
#31  
Cyclohexane  
Concen: 1.905 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0909SBL01

Tgt Ion: 56 Resp: 15830  
Ion Ratio Lower Upper  
56 100  
69 137.6 26.3 39.5#  
84 82.5 66.1 99.1

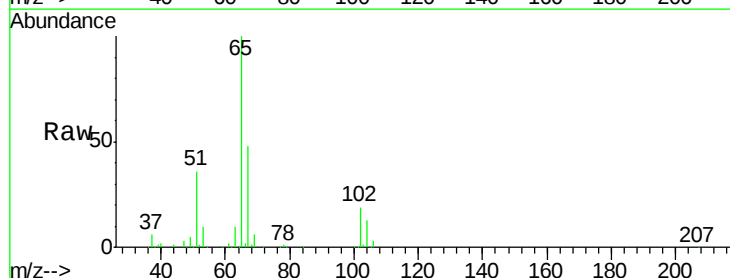


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

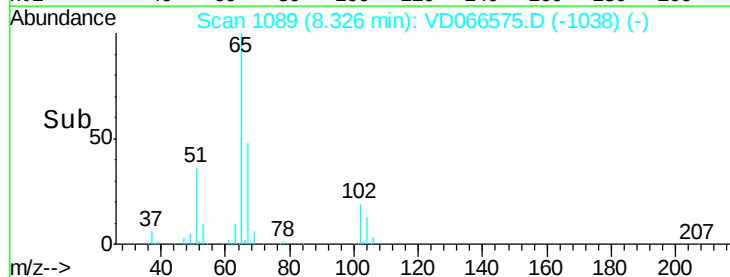
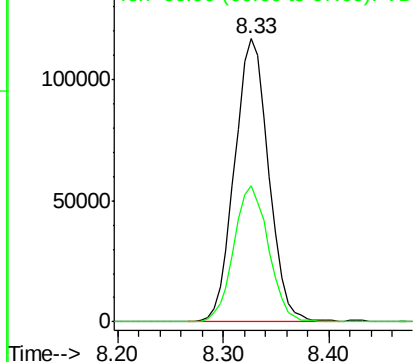


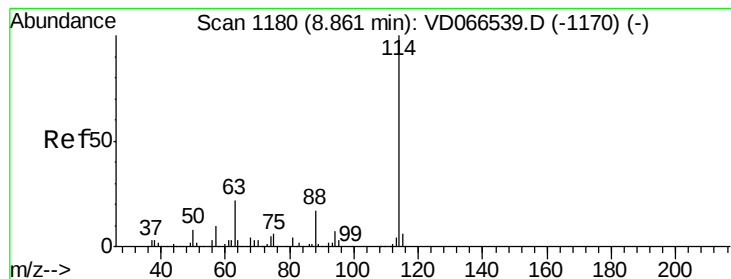
#33  
1,2-Dichloroethane-d4  
Concen: 51.167 ug/l  
RT: 8.33 min Scan# 1089  
Delta R.T. -0.00 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

Tgt Ion: 65 Resp: 260636  
Ion Ratio Lower Upper  
65 100  
67 49.1 0.0 102.8



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: VD066575.D

Acq: 09 Sep 2020 11:35

Instrument :

MSVOA\_D

ClientSampleId :

VD0909SBL01

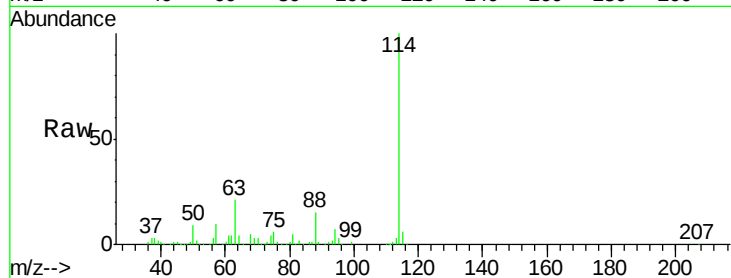
Tgt Ion:114 Resp: 733751

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.2

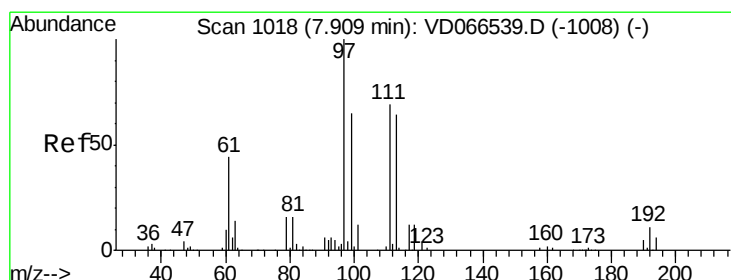
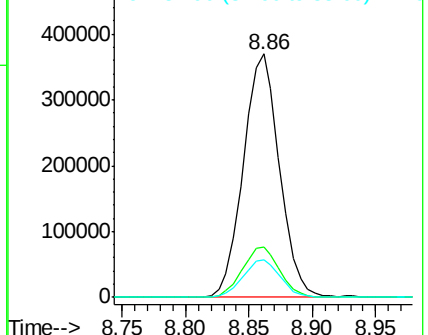
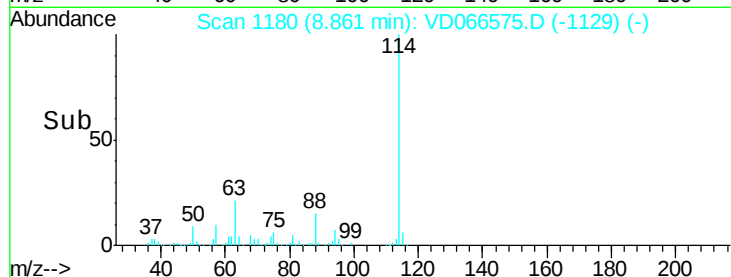
88 15.4 0.0 33.2



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: 49.451 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066575.D

Acq: 09 Sep 2020 11:35

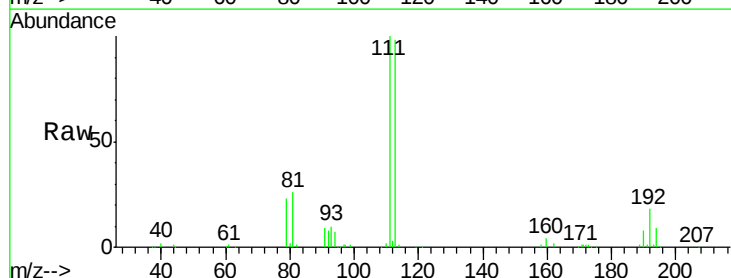
Tgt Ion:113 Resp: 244778

Ion Ratio Lower Upper

113 100

111 103.1 83.2 124.8

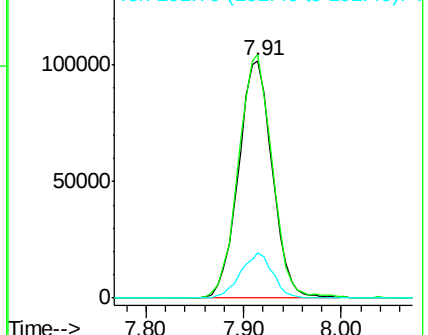
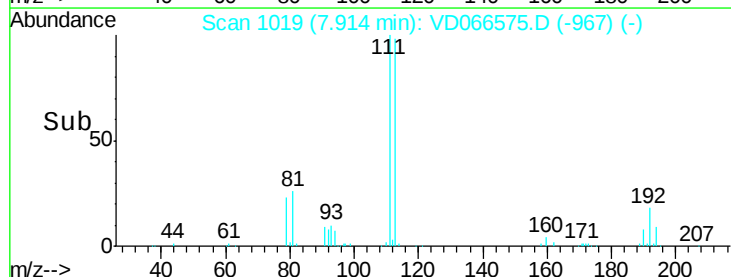
192 18.2 13.7 20.5

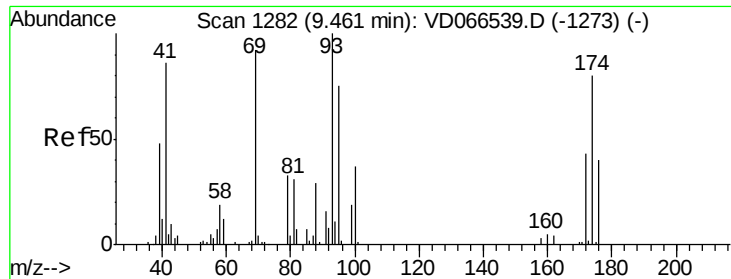


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#49

1,4-Dioxane

Concen: 2.356 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD066575.D

Acq: 09 Sep 2020 11:35

Instrument :

MSVOA\_D

ClientSampleId :

VD0909SBL01

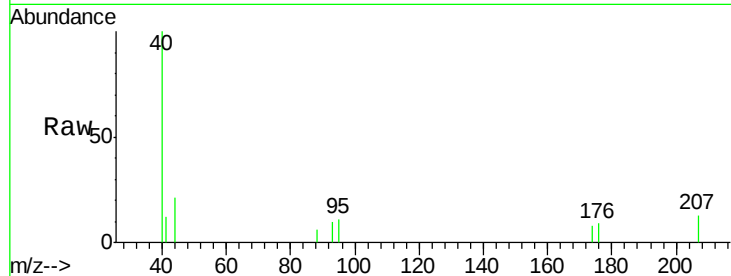
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 0.0 28.3 42.5#

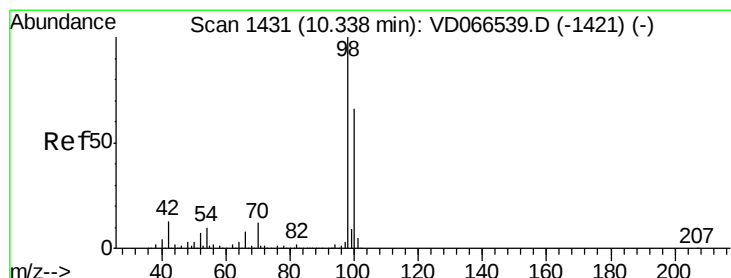
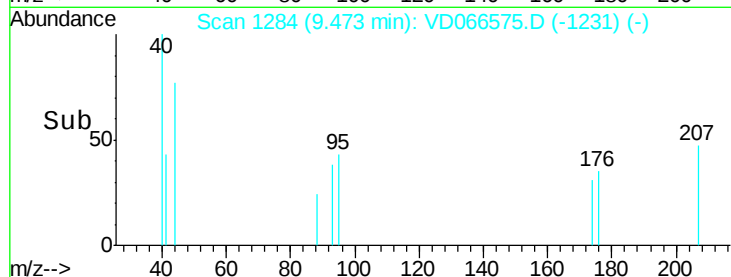
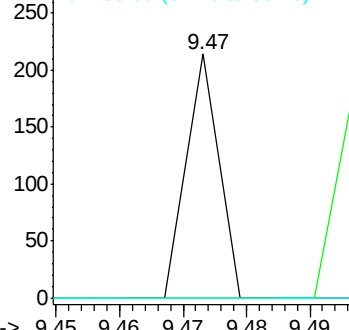
58 0.0 56.1 84.1#



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: 49.140 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066575.D

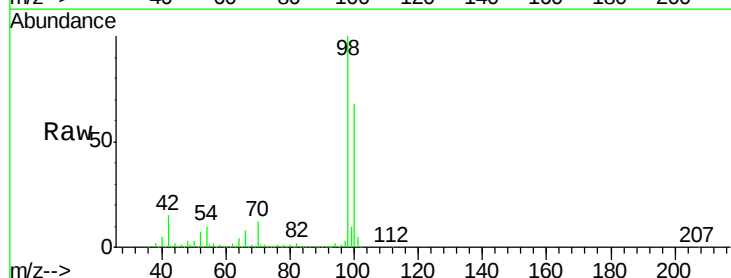
Acq: 09 Sep 2020 11:35

Tgt Ion: 98 Resp: 869382

Ion Ratio Lower Upper

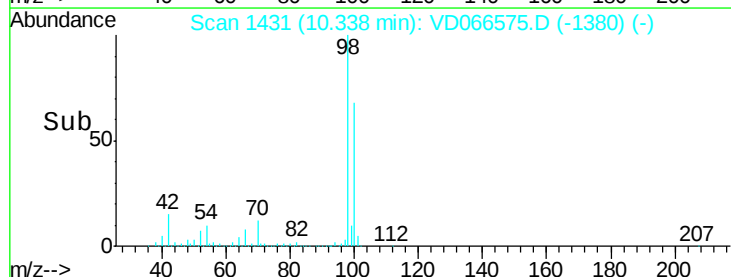
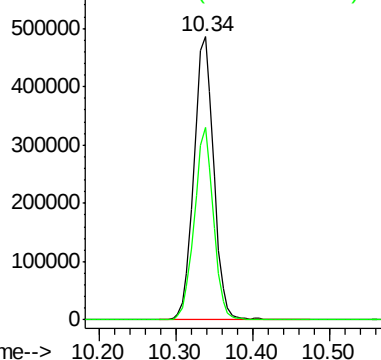
98 100

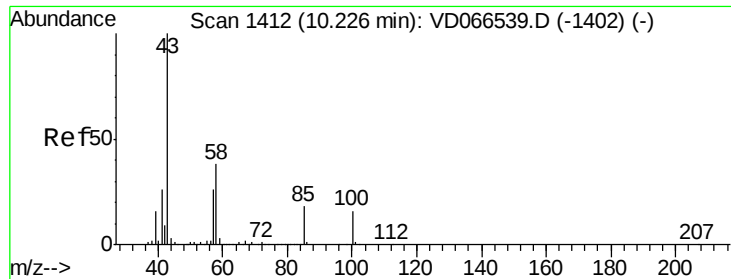
100 65.5 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

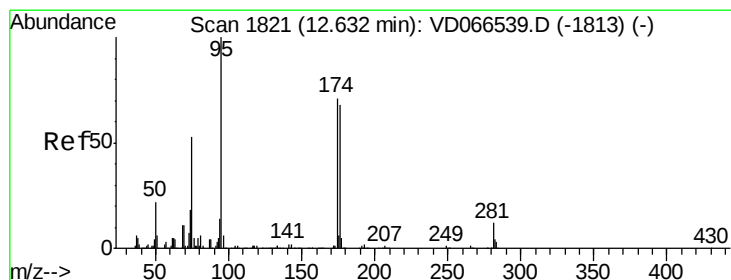
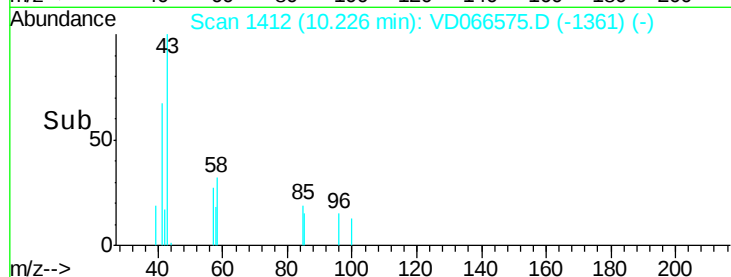
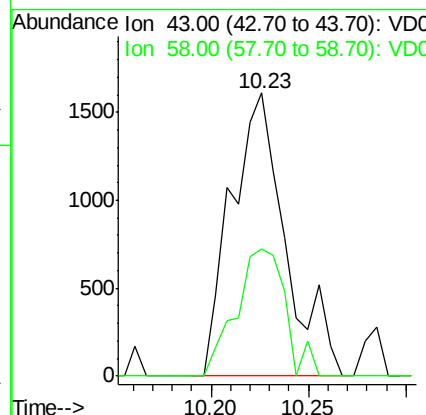
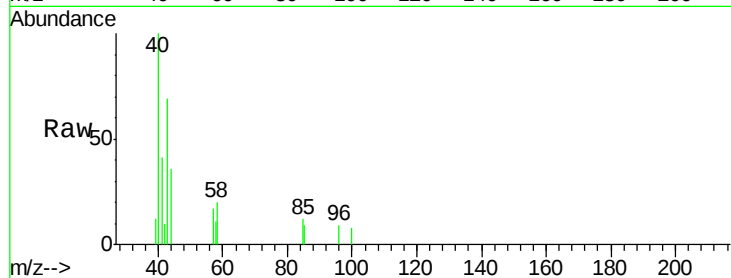




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.058 ug/l  
 RT: 10.23 min Scan# 1412  
 Delta R.T. -0.00 min  
 Lab File: VD066575.D  
 Acq: 09 Sep 2020 11:35

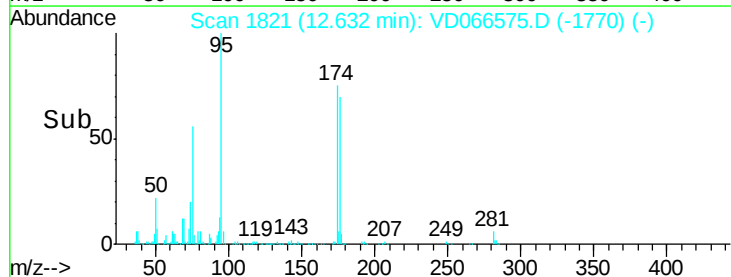
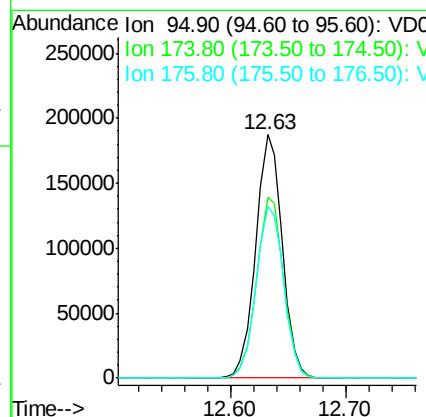
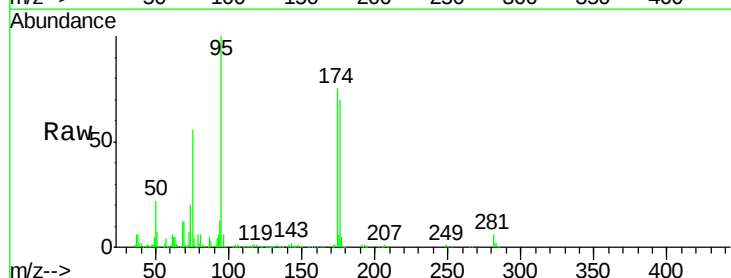
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0909SBL01

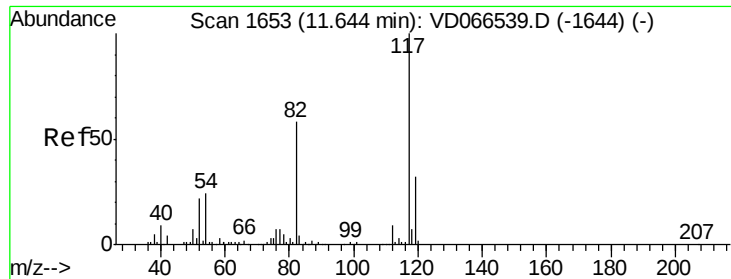
Tgt Ion: 43 Resp: 3108  
 Ion Ratio Lower Upper  
 43 100  
 58 40.7 30.5 45.7



#62  
 4-Bromofluorobenzene  
 Concen: 51.273 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. -0.00 min  
 Lab File: VD066575.D  
 Acq: 09 Sep 2020 11:35

Tgt Ion: 95 Resp: 300790  
 Ion Ratio Lower Upper  
 95 100  
 174 75.9 0.0 155.8  
 176 72.9 0.0 148.6

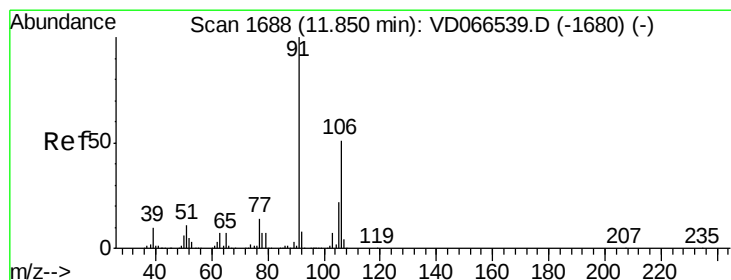
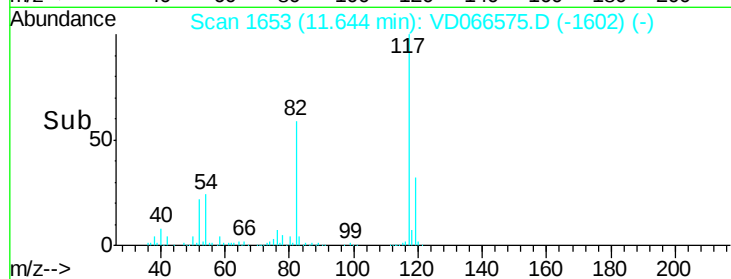
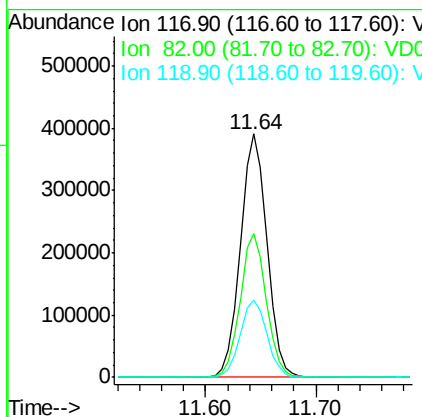
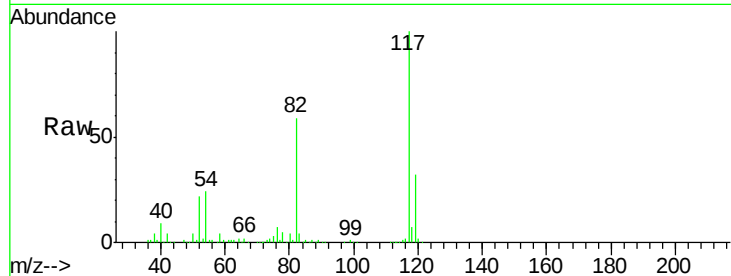




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

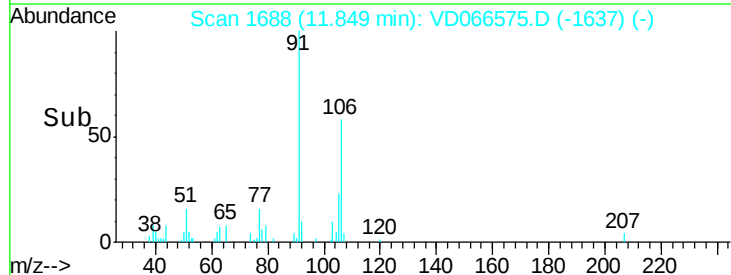
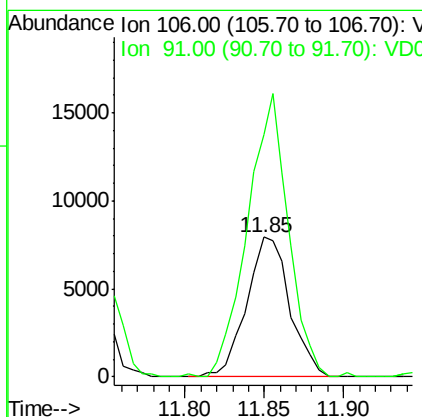
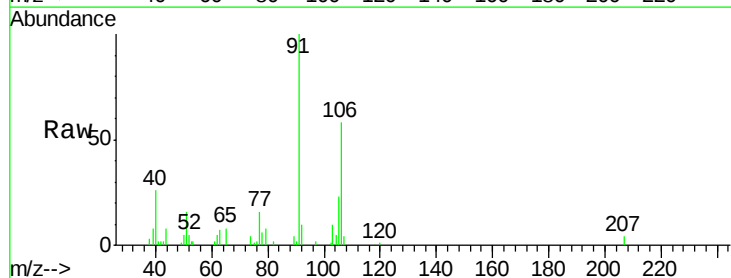
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0909SBL01

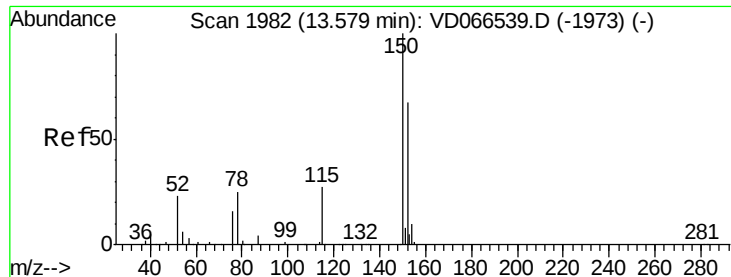
Tgt Ion:117 Resp: 661420  
Ion Ratio Lower Upper  
117 100  
82 59.1 46.2 69.2  
119 31.7 25.8 38.8



#68  
m/p-Xylenes  
Concen: 1.610 ug/l  
RT: 11.85 min Scan# 1688  
Delta R.T. -0.00 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

Tgt Ion:106 Resp: 14984  
Ion Ratio Lower Upper  
106 100  
91 191.9 162.4 243.6



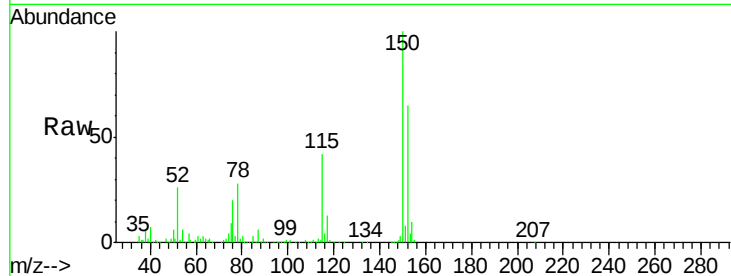


#72

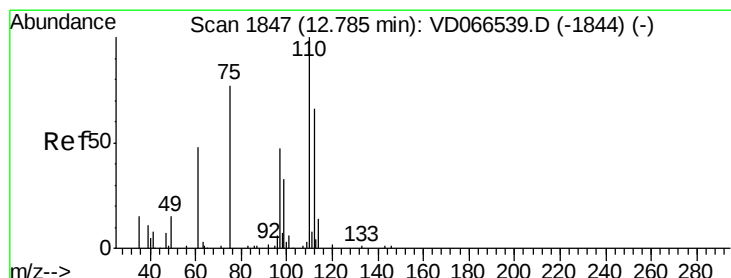
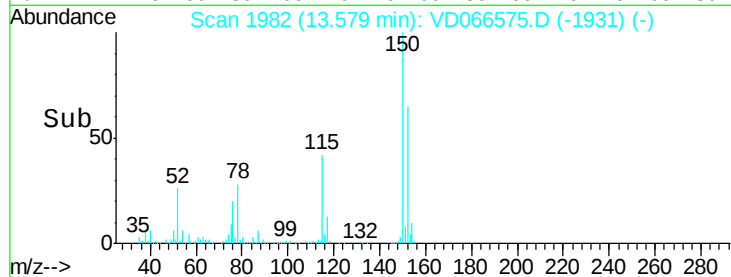
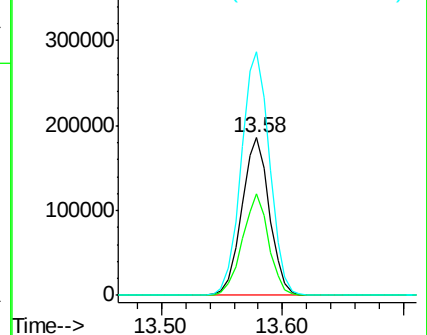
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0909SBL01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 62.0  | 30.4  | 91.2  |
| 150     | 158.6 | 0.0   | 345.8 |



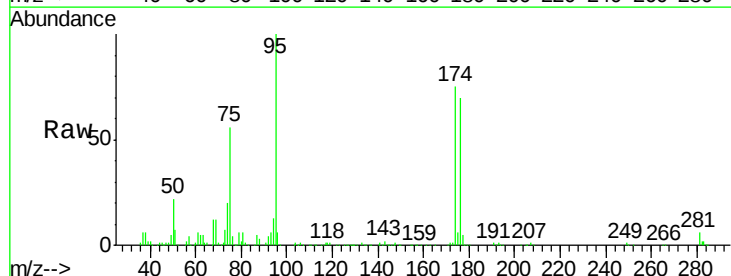
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



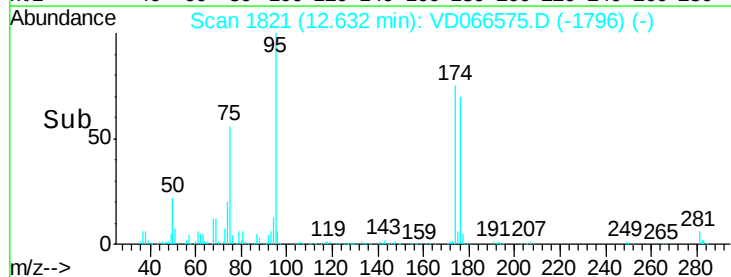
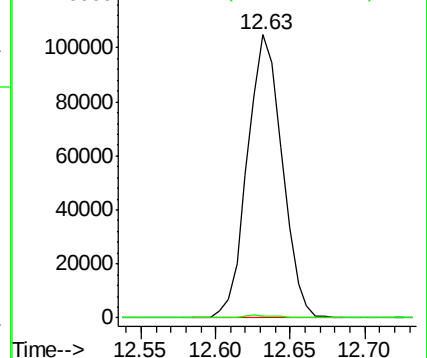
#76

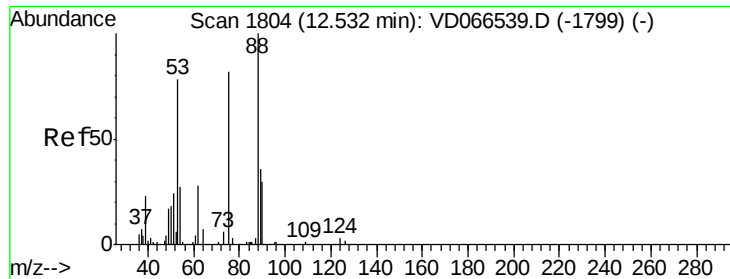
1,2,3-Trichloropropane  
Concen: 59.450 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. -0.15 min  
Lab File: VD066575.D  
Acq: 09 Sep 2020 11:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.1   | 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: 138.795 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066575.D

Acq: 09 Sep 2020 11:35

Instrument :

MSVOA\_D

ClientSampleId :

VD0909SBL01

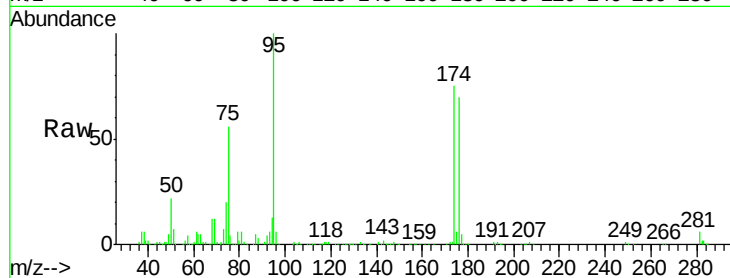
Tgt Ion: 75 Resp: 168934

Ion Ratio Lower Upper

75 100

53 0.0 87.0 130.4#

89 0.1 37.1 55.7#



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

