

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102220\  
 Data File : VD067355.D  
 Acq On : 22 Oct 2020 11:51  
 Operator : VA/SY  
 Sample : VD1022SBL01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1022SBL01

Quant Time: Oct 22 14:51:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 332577   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 549016   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 527167   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 260831   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 173291   | 52.01  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.02% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 176076   | 48.19  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.38%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 642336   | 48.58  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.16%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 229055   | 49.82  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.64%  |          |

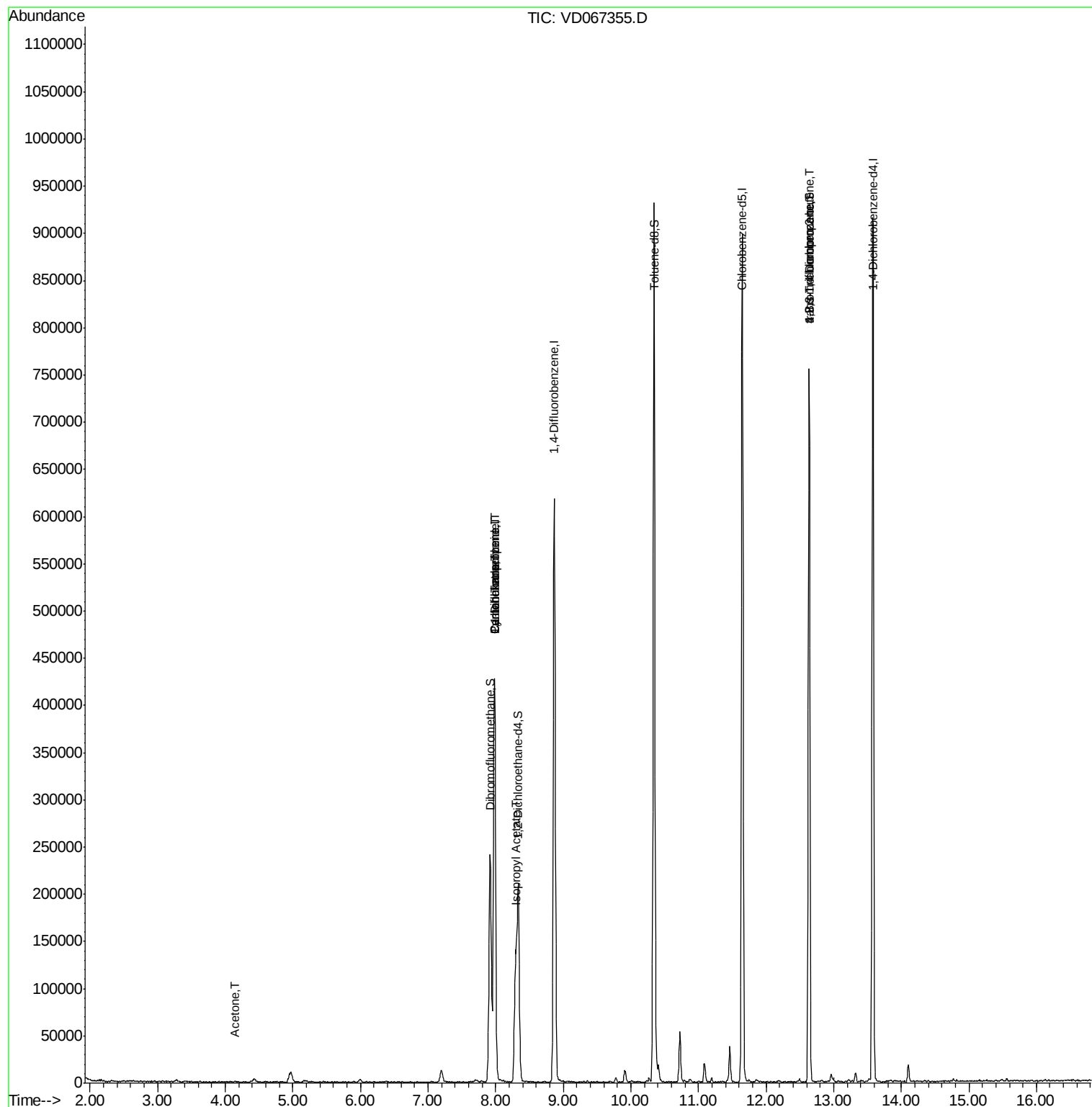
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 704      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.76  | 94   | 90       | Below Cal | #      | 3      |
| 11) Tert butyl alcohol         | 5.18  | 59   | 1724     | Below Cal | #      | 81     |
| 16) Acetone                    | 4.16  | 43   | 1549     | 3.320     | ug/l   | 93     |
| 20) Methylene Chloride         | 4.97  | 84   | 9689     | Below Cal |        | 87     |
| 31) Cyclohexane                | 7.98  | 56   | 6804     | 1.773     | ug/l # | 5      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 23893    | 5.135     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 33908    | 5.701     | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.29  | 43   | 3264     | 1.201     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 117649   | 65.078    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 117649   | 147.578   | ug/l # | 10     |

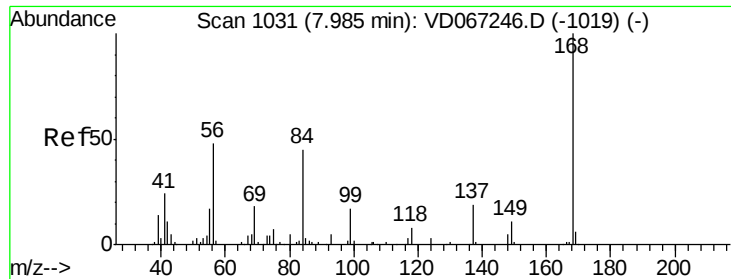
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102220\  
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Sample : VD1022SBL01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

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VD1022SBL01

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Quant Title : SW846 8260  
QLast Update : Mon Oct 19 19:13:29 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

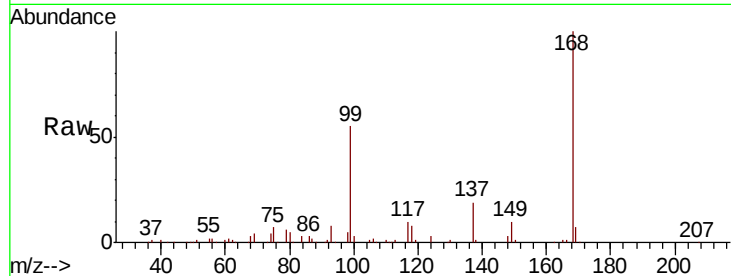
VD1022SBL01

Tot Ion:168 Resp: 332577

Ion Ratio Lower Upper

168 100

99 55.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

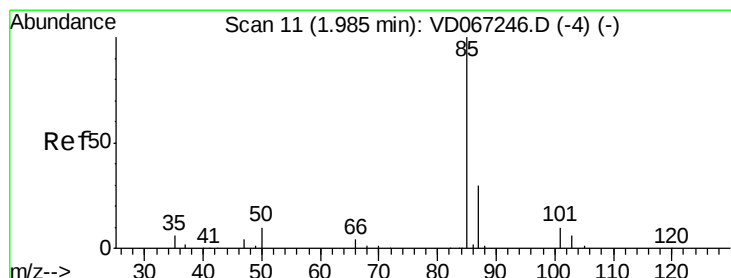
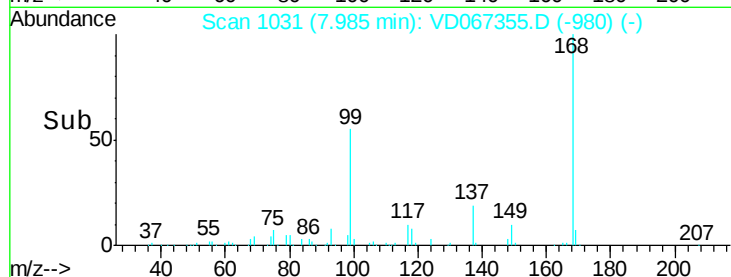
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067355.D

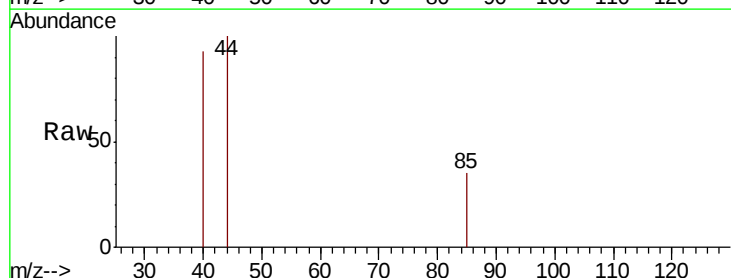
Acq: 22 Oct 2020 11:51

Tgt Ion: 85 Resp: 704

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

600

500

400

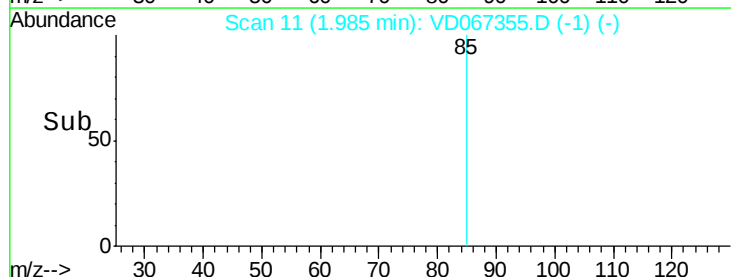
300

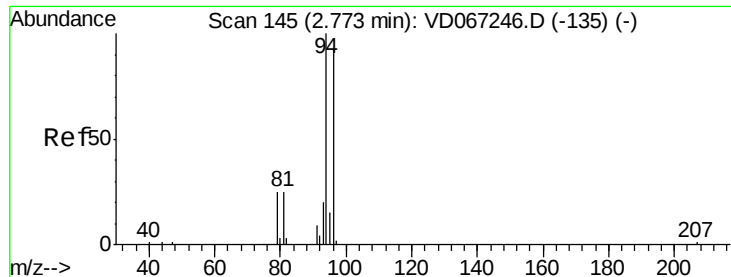
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

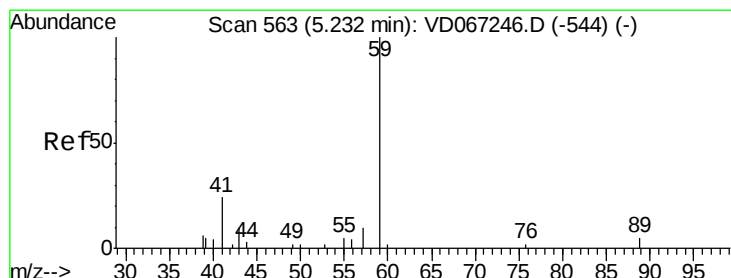
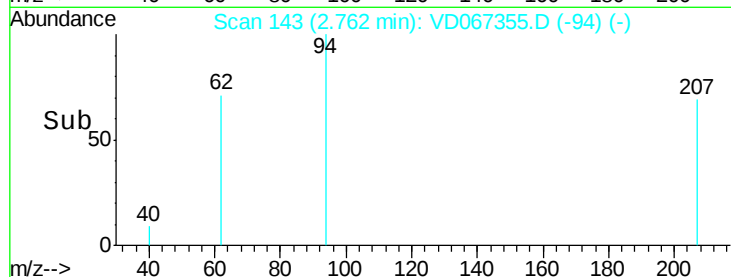
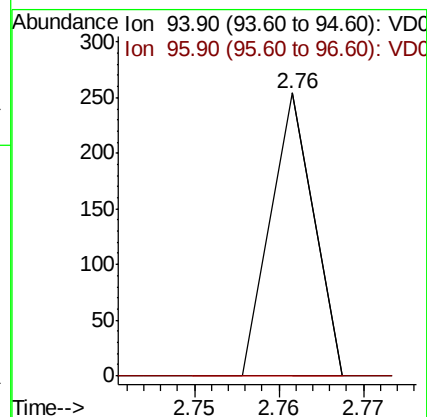
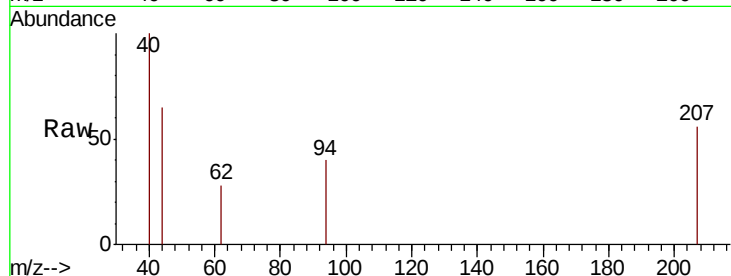
VD1022SBL01

Tot Ion: 94 Resp: 90

Ion Ratio Lower Upper

94 100

96 0.0 73.8 110.6#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 555

Delta R.T. -0.05 min

Lab File: VD067355.D

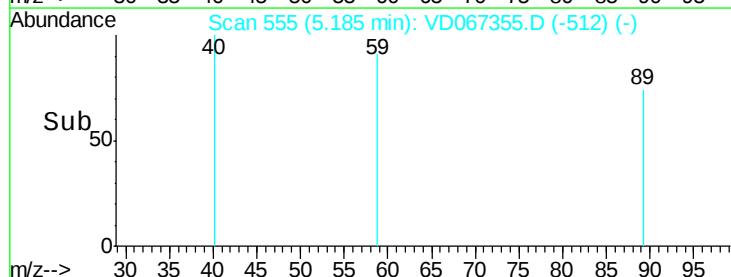
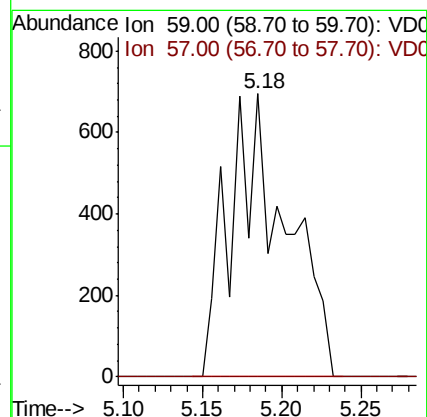
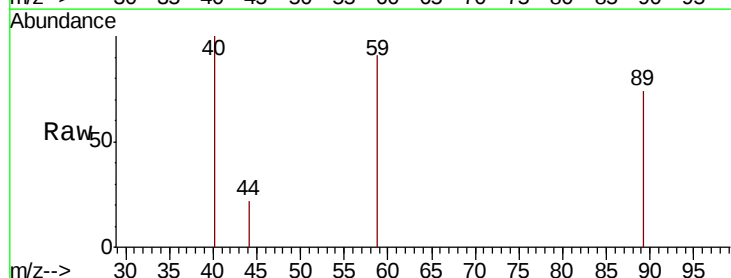
Acq: 22 Oct 2020 11:51

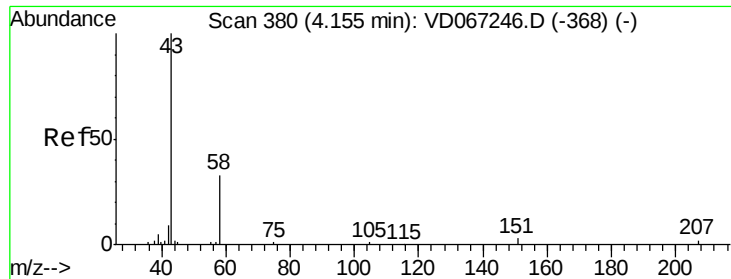
Tgt Ion: 59 Resp: 1724

Ion Ratio Lower Upper

59 100

57 0.0 5.1 7.7#





#16

Acetone

Concen: 3.320 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

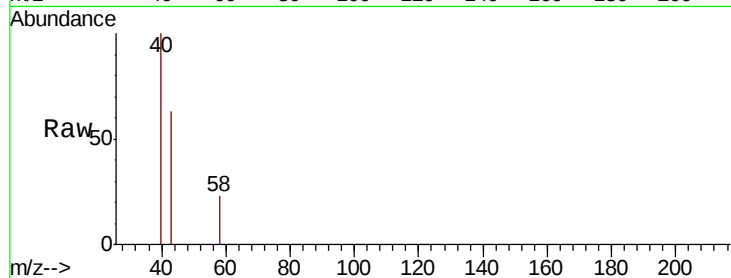
VD1022SBL01

Tot Ion: 43 Resp: 1549

Ion Ratio Lower Upper

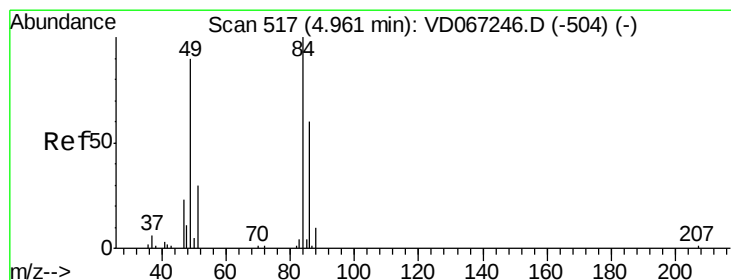
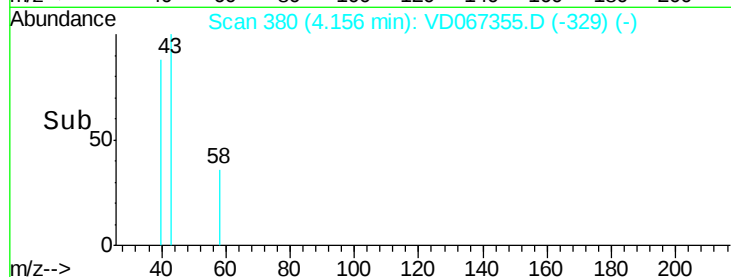
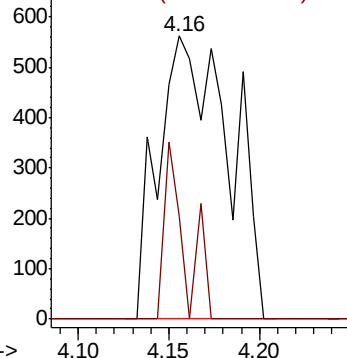
43 100

58 36.3 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Tgt Ion: 84 Resp: 9689

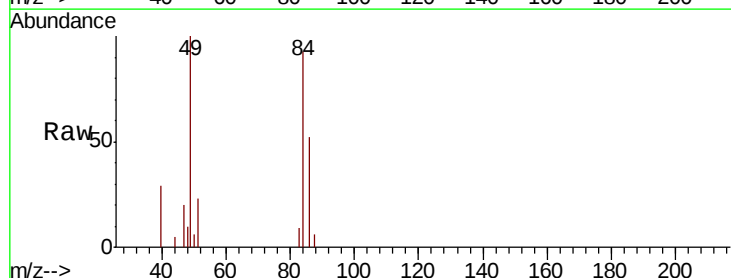
Ion Ratio Lower Upper

84 100

49 107.2 72.2 108.2

51 24.4 23.8 35.8

86 56.1 48.2 72.4

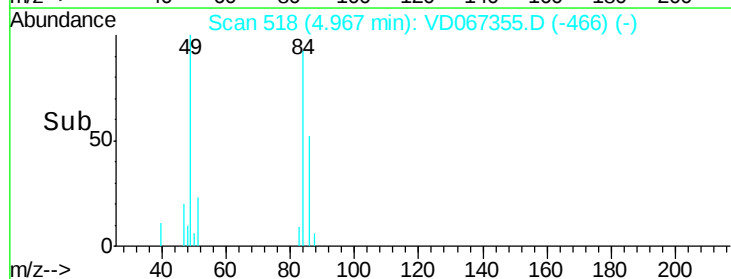
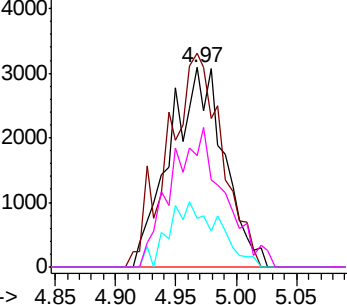


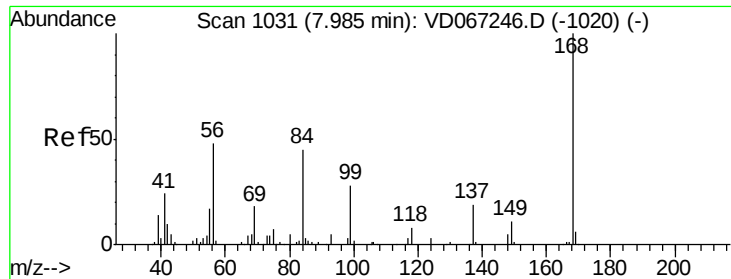
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

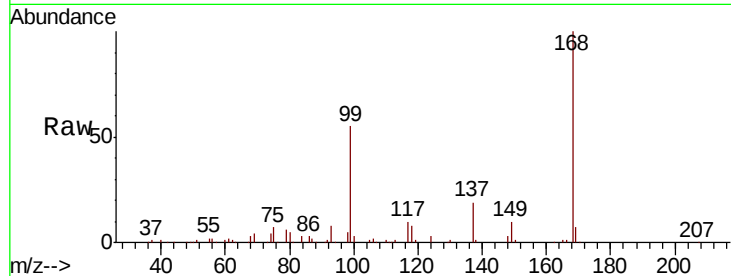




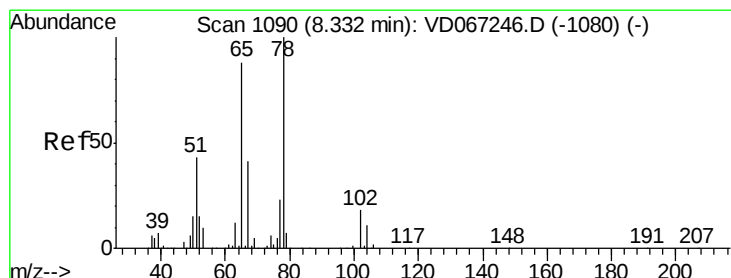
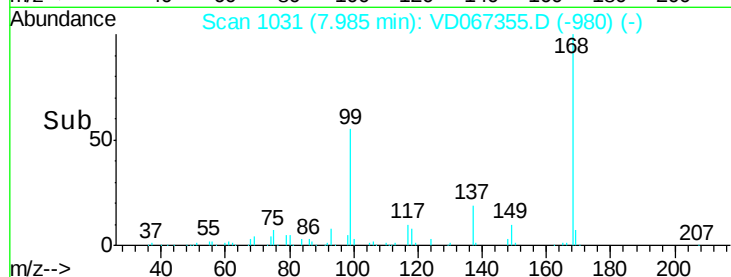
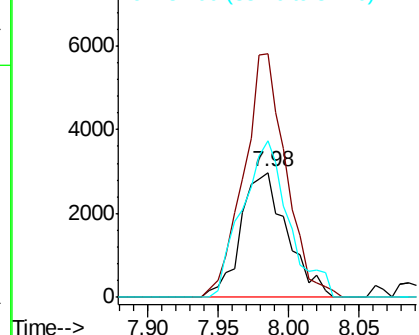
#31  
Cyclohexane  
Concen: 1.773 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD067355.D  
Acq: 22 Oct 2020 11:51

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1022SBL01

Tot Ion: 56 Resp: 6804  
Ion Ratio Lower Upper  
56 100  
69 194.5 29.8 44.6#  
84 125.0 76.6 114.8#

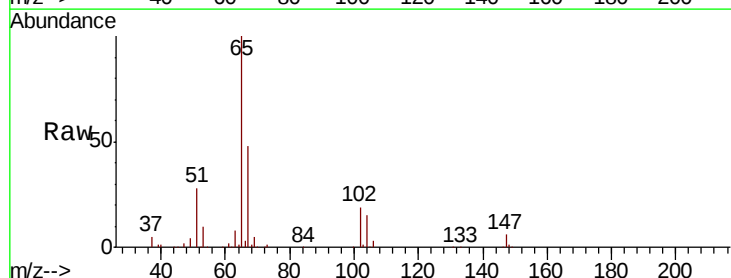


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

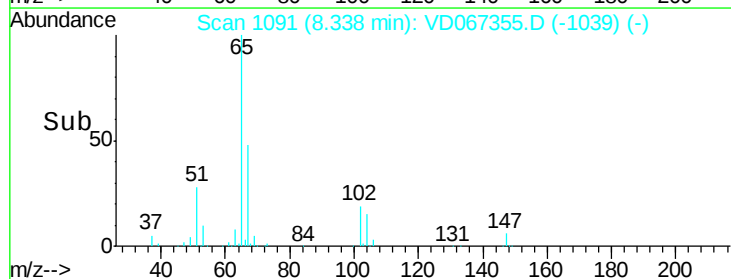
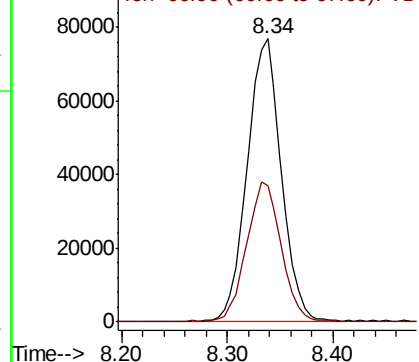


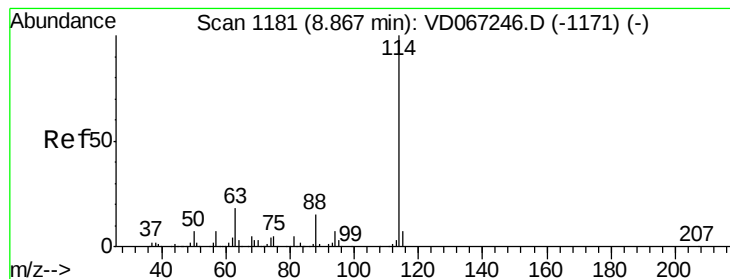
#33  
1,2-Dichloroethane-d4  
Concen: 52.009 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.01 min  
Lab File: VD067355.D  
Acq: 22 Oct 2020 11:51

Tgt Ion: 65 Resp: 173291  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 103.8



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: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

VD1022SBL01

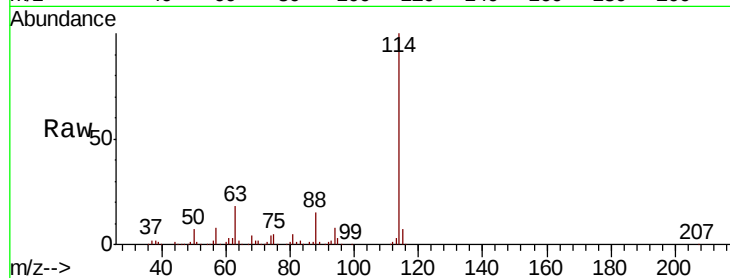
Tot Ion:114 Resp: 549016

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.0

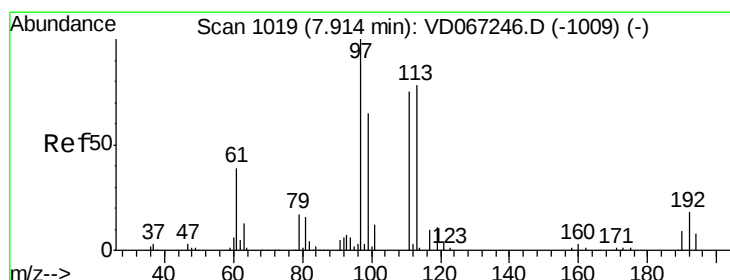
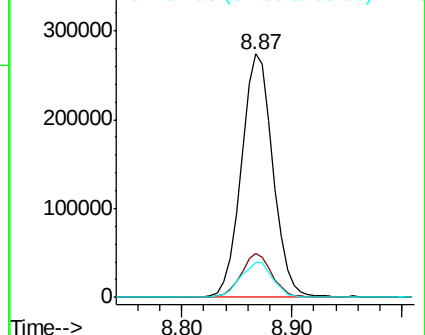
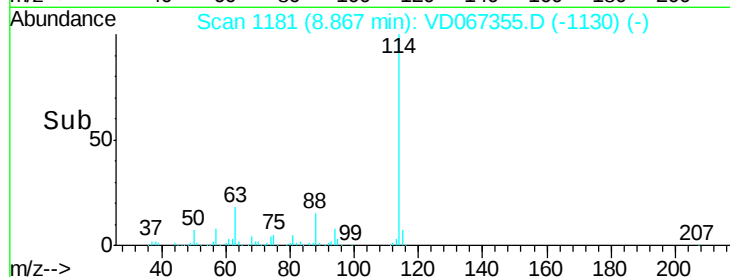
88 14.6 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 48.191 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

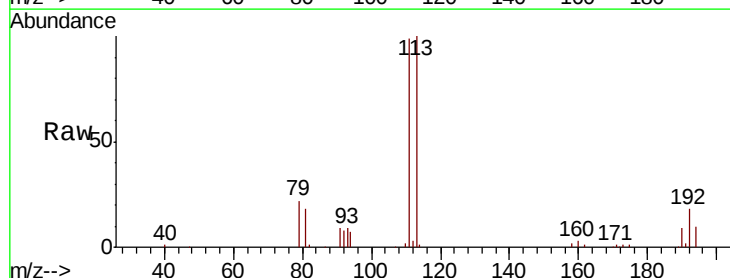
Tgt Ion:113 Resp: 176076

Ion Ratio Lower Upper

113 100

111 101.3 81.6 122.4

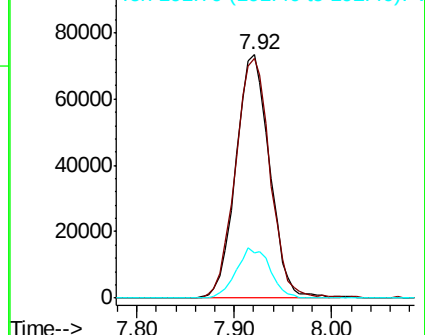
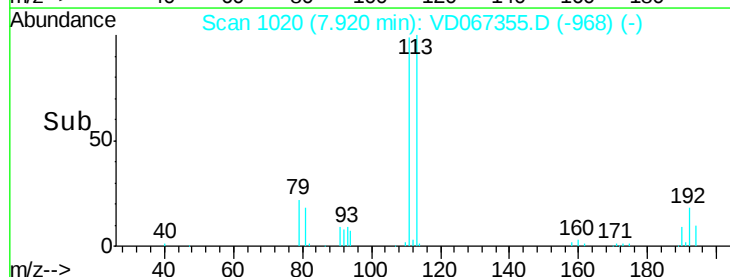
192 20.7 17.0 25.4

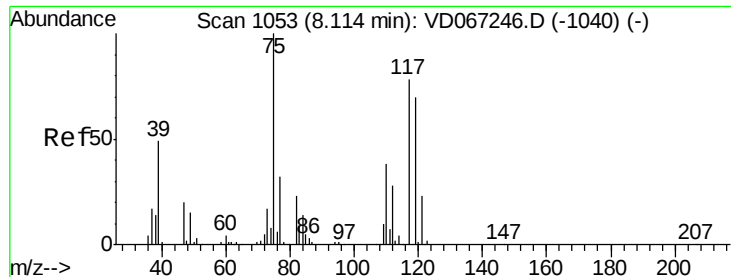


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.135 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

VD1022SBL01

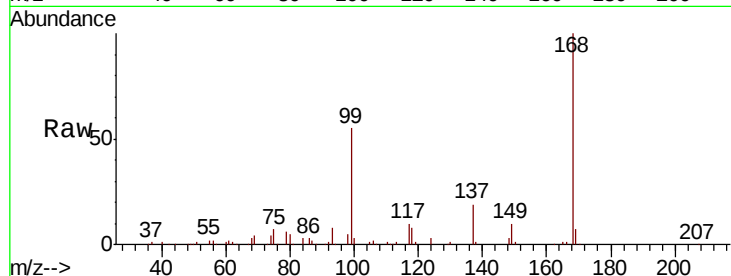
Tot Ion: 75 Resp: 23893

Ion Ratio Lower Upper

75 100

110 11.6 19.6 58.7#

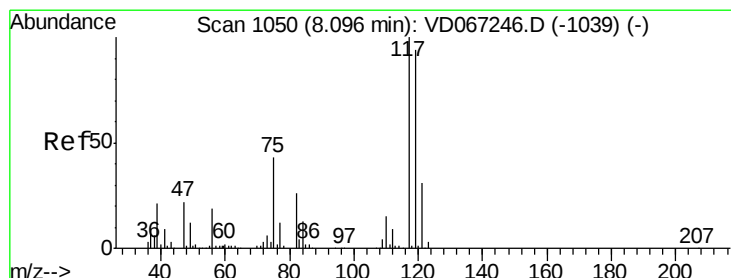
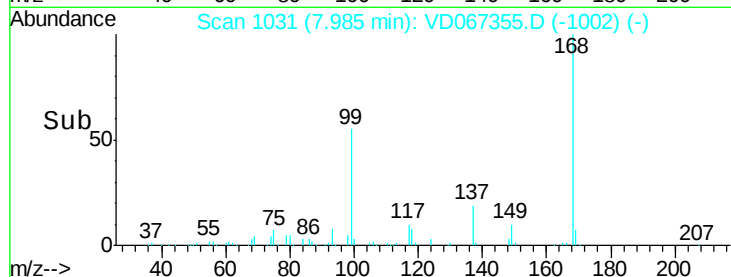
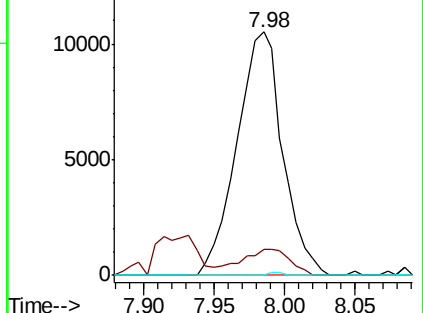
77 0.5 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.701 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

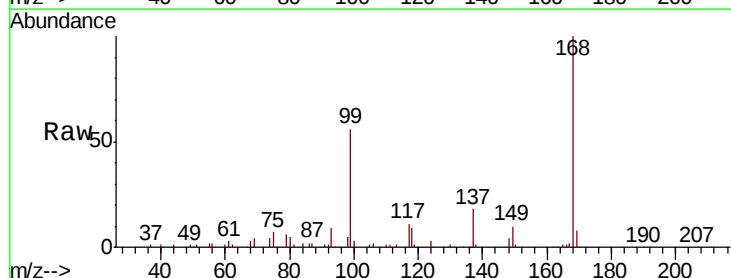
Tgt Ion: 117 Resp: 33908

Ion Ratio Lower Upper

117 100

119 5.0 75.0 112.4#

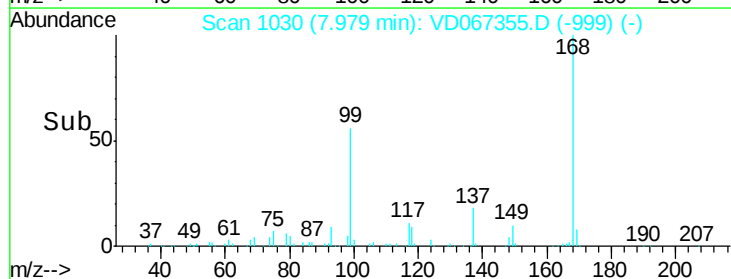
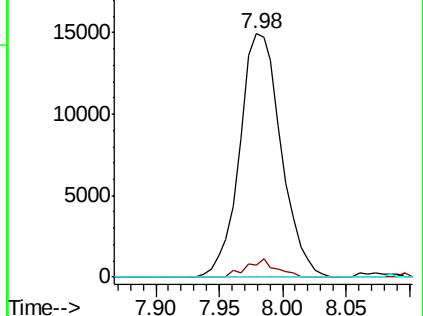
121 0.0 24.9 37.3#

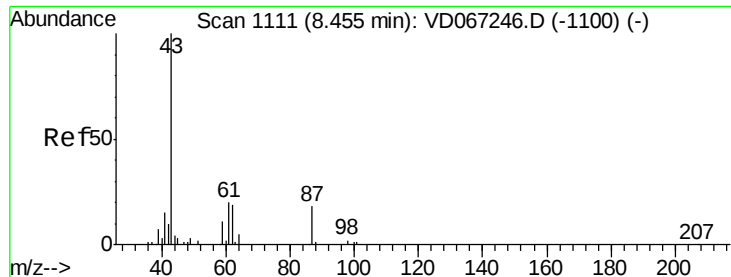


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.201 ug/l

RT: 8.29 min Scan# 1083

Delta R.T. -0.16 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

VD1022SBL01

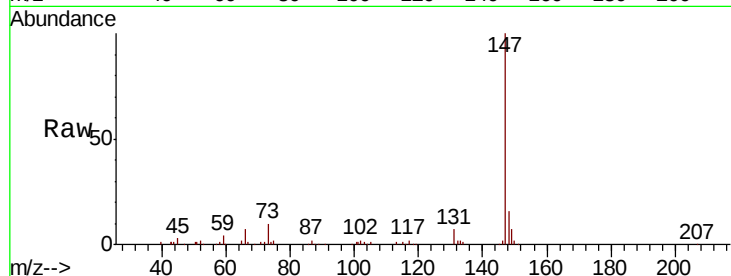
Tot Ion: 43 Resp: 3264

Ion Ratio Lower Upper

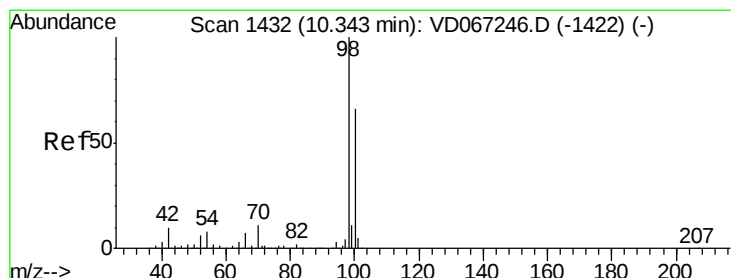
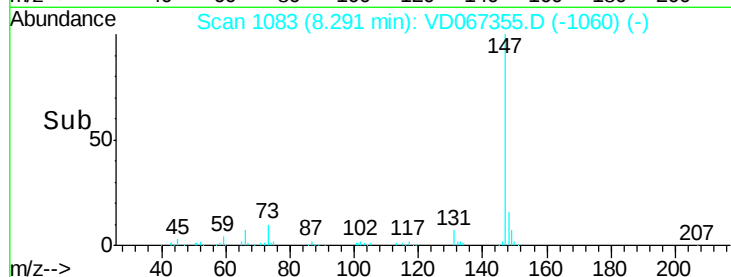
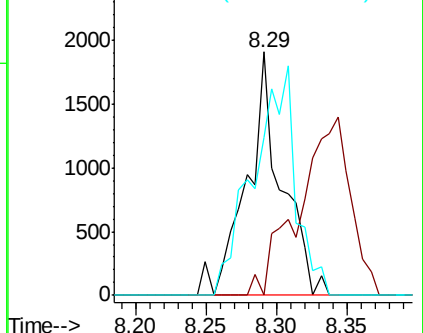
43 100

61 0.0 29.5 44.3#

87 115.8 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 61.00 (60.70 to 61.70): VDC  
Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: 48.579 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067355.D

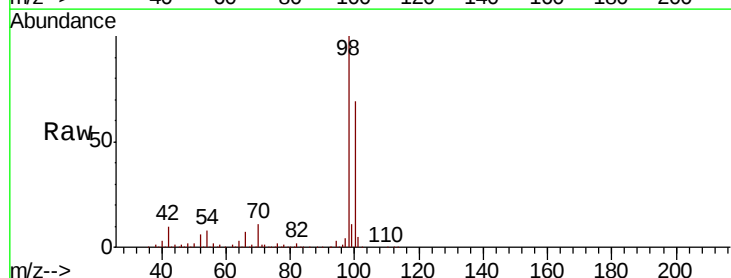
Acq: 22 Oct 2020 11:51

Tgt Ion: 98 Resp: 642336

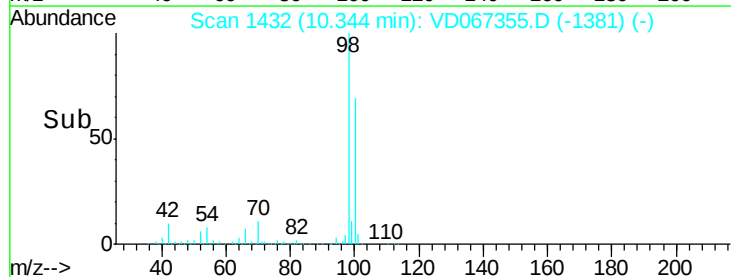
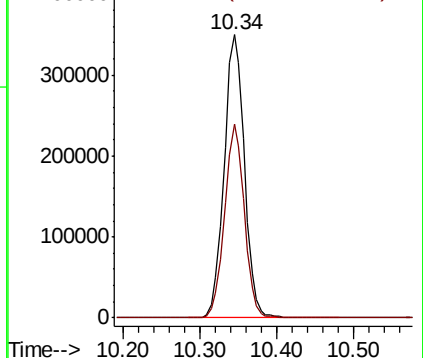
Ion Ratio Lower Upper

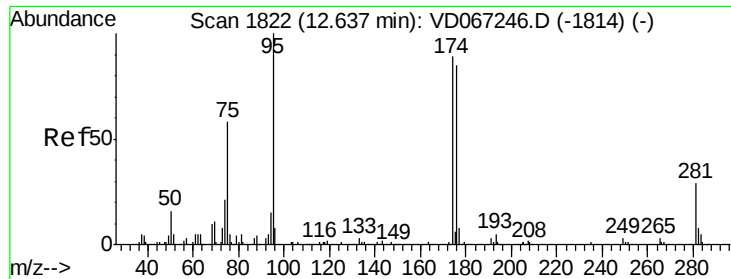
98 100

100 66.5 53.1 79.7



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

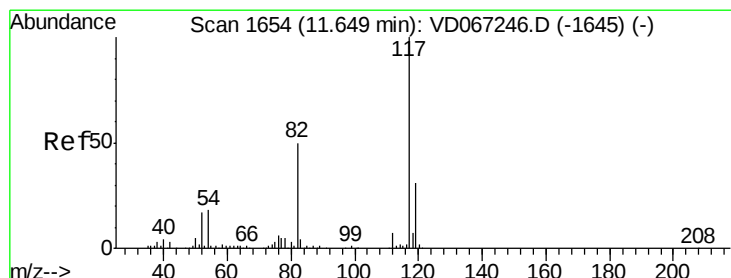
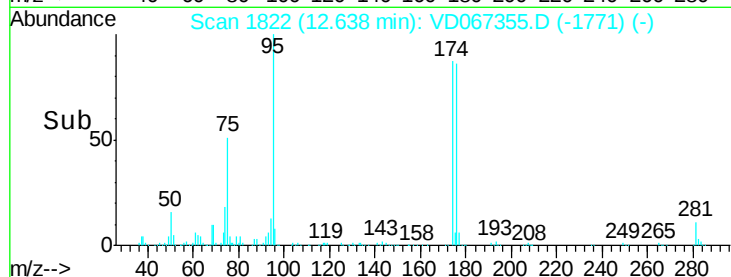
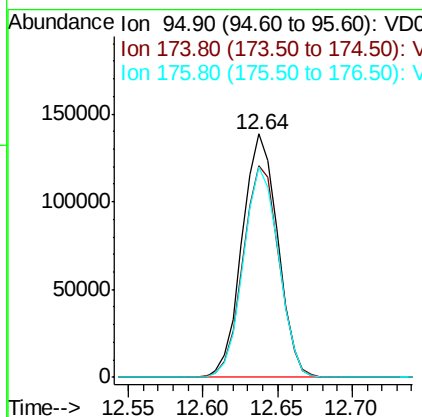
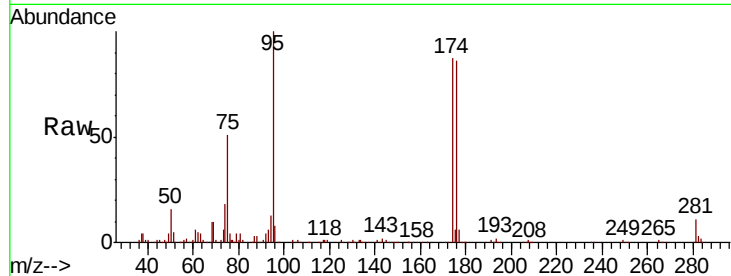




#62  
4-Bromofluorobenzene  
Concen: 49.819 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067355.D  
Acq: 22 Oct 2020 11:51

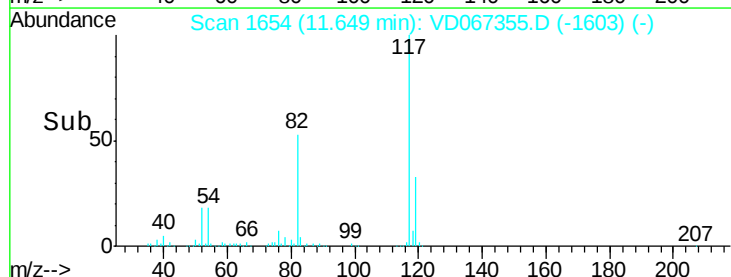
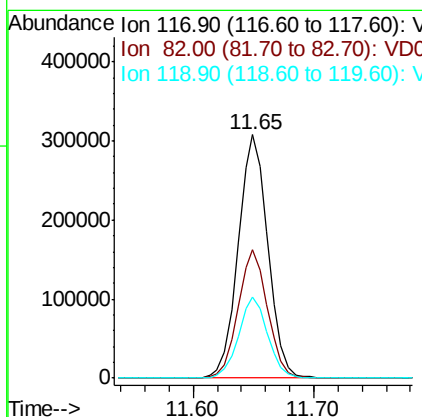
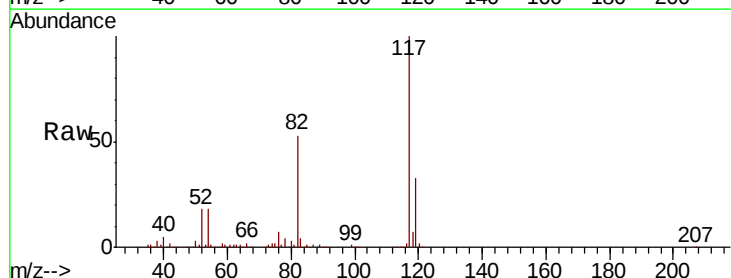
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1022SBL01

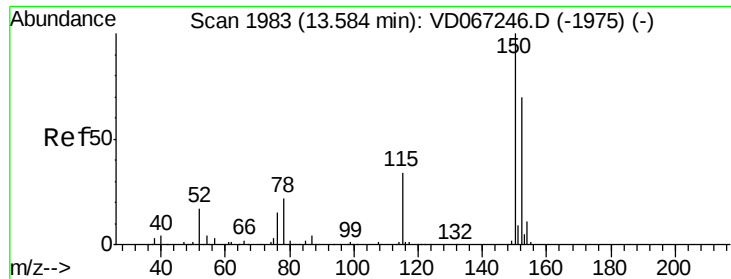
Tot Ion: 95 Resp: 229055  
Ion Ratio Lower Upper  
95 100  
174 87.7 0.0 175.2  
176 85.3 0.0 168.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067355.D  
Acq: 22 Oct 2020 11:51

Tgt Ion: 117 Resp: 527167  
Ion Ratio Lower Upper  
117 100  
82 52.6 39.9 59.9  
119 33.3 24.9 37.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

VD1022SBL01

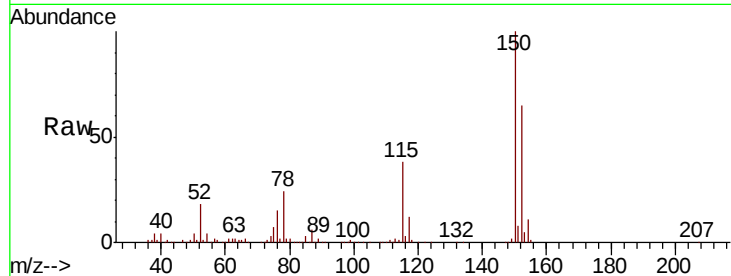
Tot Ion:152 Resp: 260831

Ion Ratio Lower Upper

152 100

115 58.4 29.3 87.9

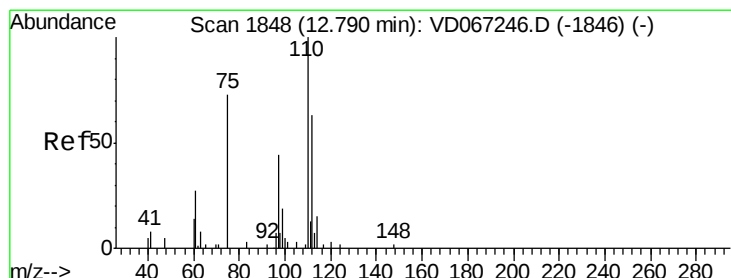
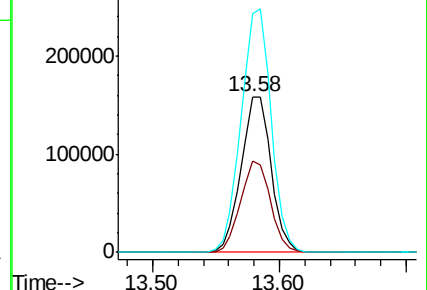
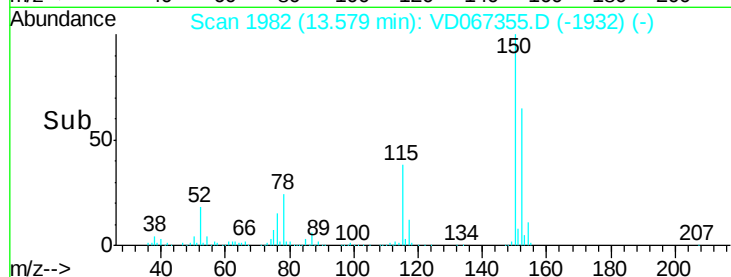
150 156.1 0.0 339.0



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: 65.078 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067355.D

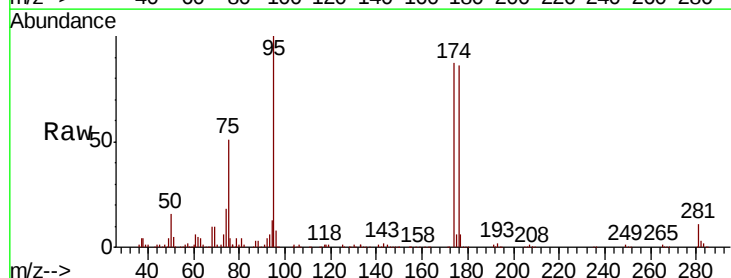
Acq: 22 Oct 2020 11:51

Tgt Ion: 75 Resp: 117649

Ion Ratio Lower Upper

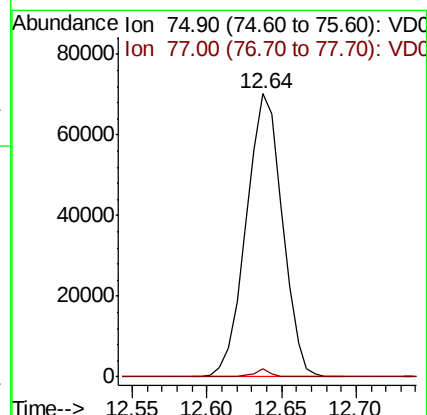
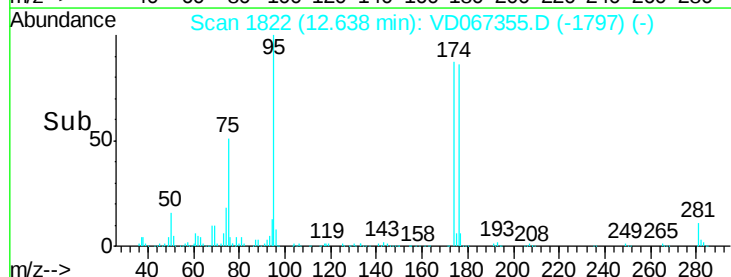
75 100

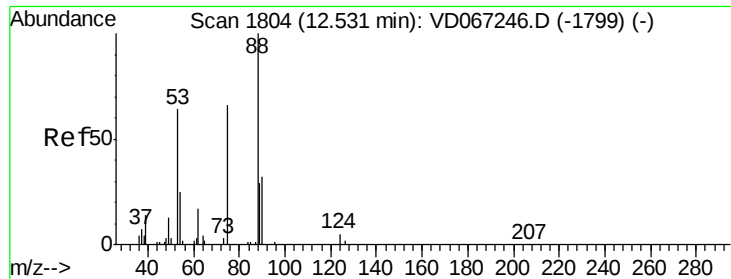
77 1.2 0.0 0.0#



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: 147.578 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067355.D

Acq: 22 Oct 2020 11:51

Instrument :

MSVOA\_D

ClientSampleId :

VD1022SBL01

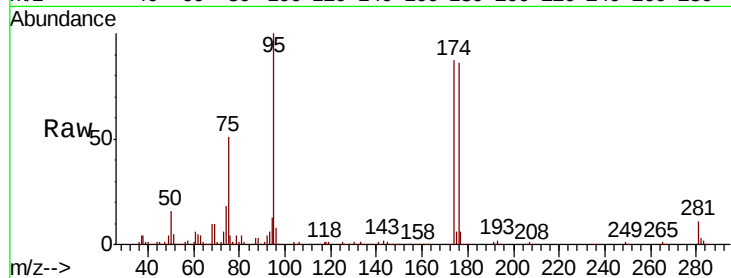
Tot Ion: 75 Resp: 117649

Ion Ratio Lower Upper

75 100

53 0.2 78.5 117.7#

89 0.1 39.9 59.9#



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

