

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110520\  
 Data File : VD067537.D  
 Acq On : 05 Nov 2020 11:53  
 Operator : VA/SY  
 Sample : L4590-01  
 Misc : 4.67G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NB-08-110320

Quant Time: Nov 06 00:15:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 312888   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 514314   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 507876   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 265475   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 160495   | 58.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.32% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 160006   | 51.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.28% |          |
| 50) Toluene-d8              | 10.34 | 98   | 592748   | 54.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.86% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 220866   | 58.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.50% |          |

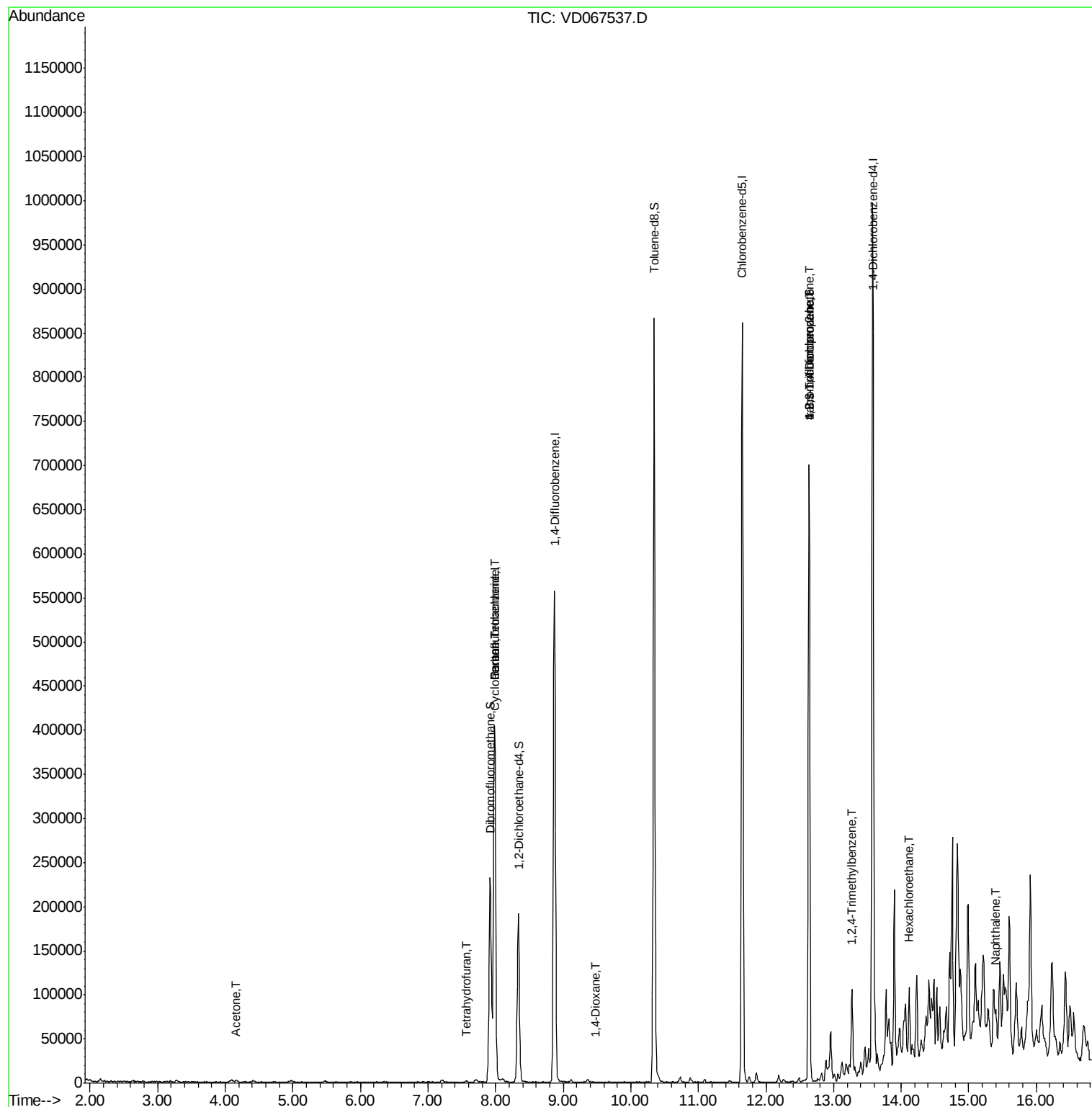
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 1131     | Below Cal |        | 75     |
| 11) Tert butyl alcohol         | 5.20  | 59   | 73       | Below Cal | #      | 79     |
| 16) Acetone                    | 4.16  | 43   | 4625     | 11.297    | ug/l # | 77     |
| 29) Tetrahydrofuran            | 7.57  | 42   | 541      | 2.065     | ug/l # | 39     |
| 31) Cyclohexane                | 8.00  | 56   | 7181     | 1.810     | ug/l # | 73     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 31614    | 5.527     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 9.47  | 88   | 59       | 3.545     | ug/l # | 31     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 111306   | 69.501    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 111306   | 141.106   | ug/l # | 10     |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 52257    | 3.582     | ug/l   | 95     |
| 90) Hexachloroethane           | 14.12 | 117  | 5058     | 1.659     | ug/l # | 16     |
| 95) Naphthalene                | 15.40 | 128  | 23437    | 3.216     | ug/l # | 92     |

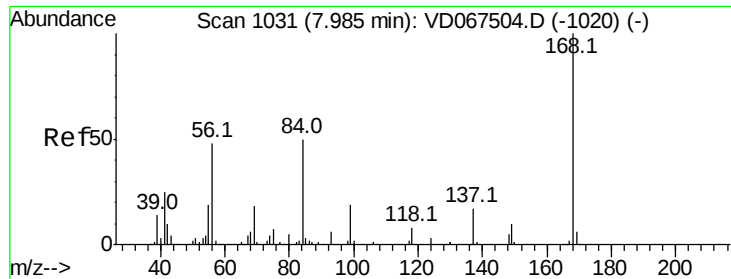
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD110520\  
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Sample : L4590-01  
Misc : 4.67G/5.00ml/MSVOA D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
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NB-08-110320

Quant Time: Nov 06 00:15:17 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 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: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :

MSVOA\_D

ClientSampleId :

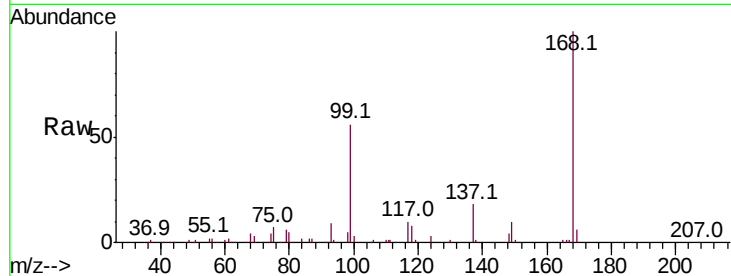
NB-08-110320

Tot Ion:168 Resp: 312888

Ion Ratio Lower Upper

168 100

99 55.8 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

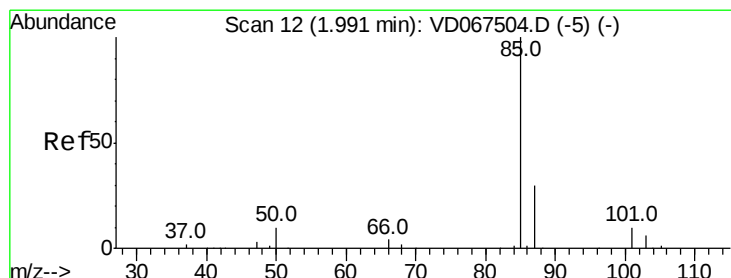
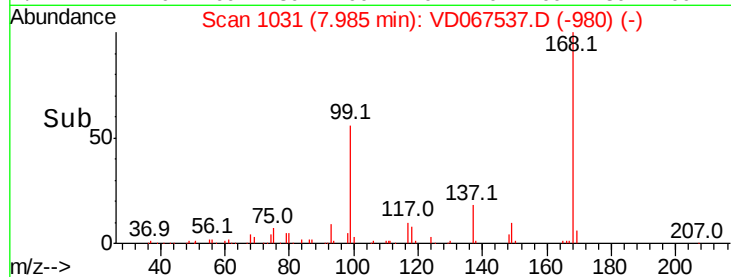
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD067537.D

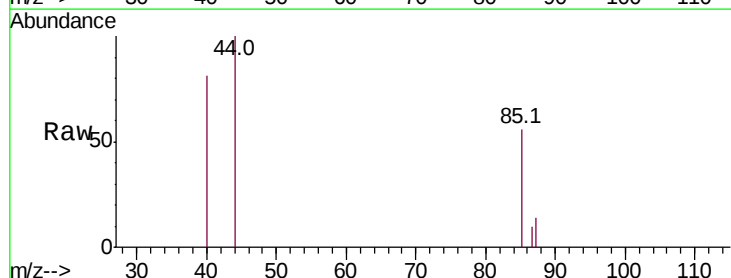
Acq: 05 Nov 2020 11:53

Tgt Ion: 85 Resp: 1131

Ion Ratio Lower Upper

85 100

87 44.0 15.3 45.8



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

1000

800

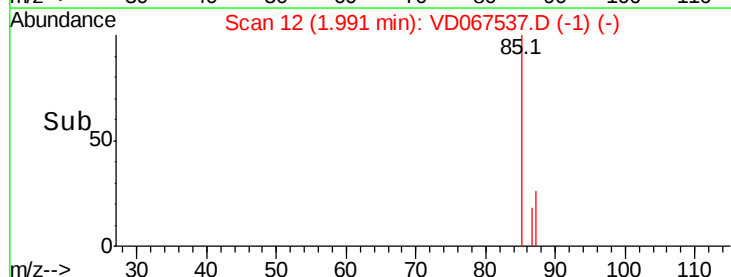
600

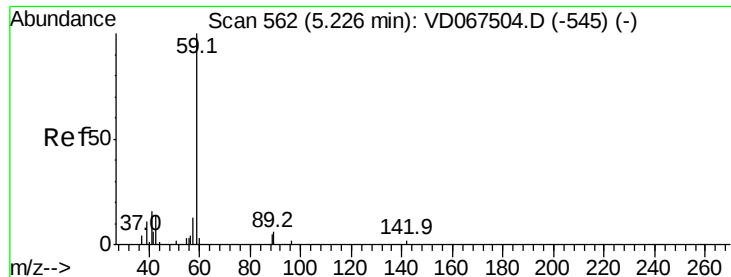
400

200

0

Time-->



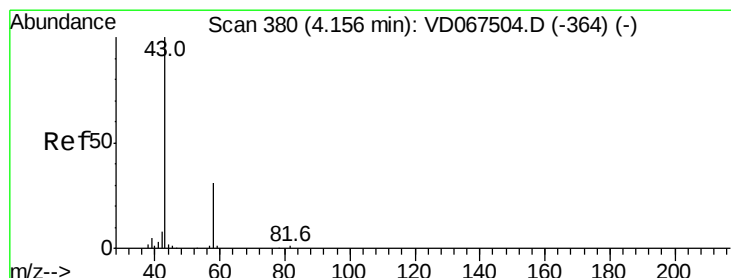
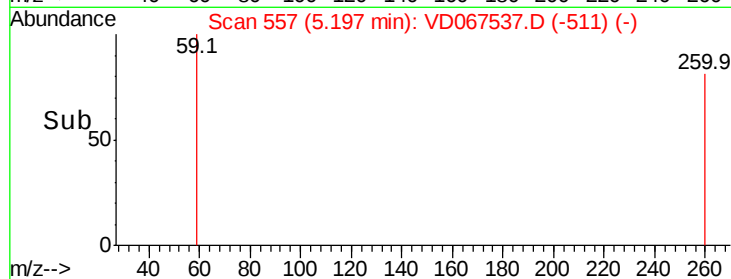
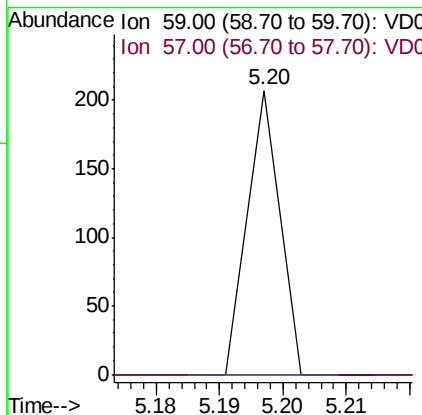
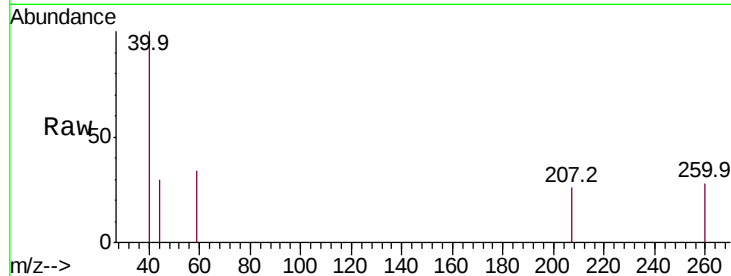


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.20 min Scan# 557  
 Delta R.T. -0.03 min  
 Lab File: VD067537.D  
 Acq: 05 Nov 2020 11:53

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NB-08-110320

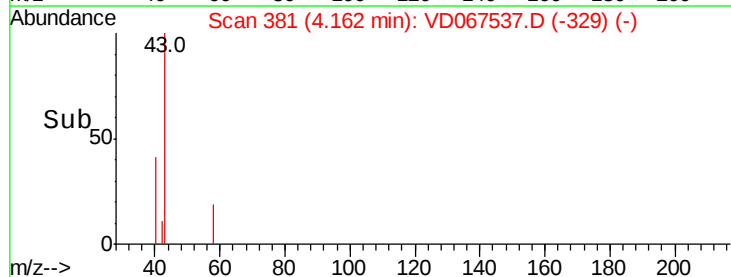
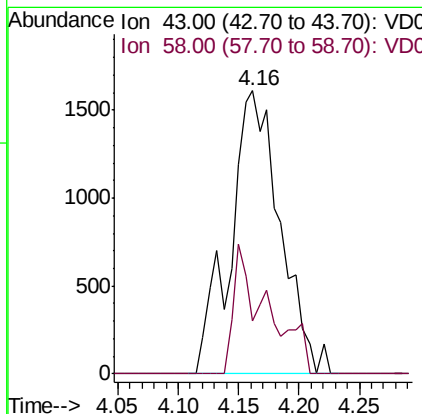
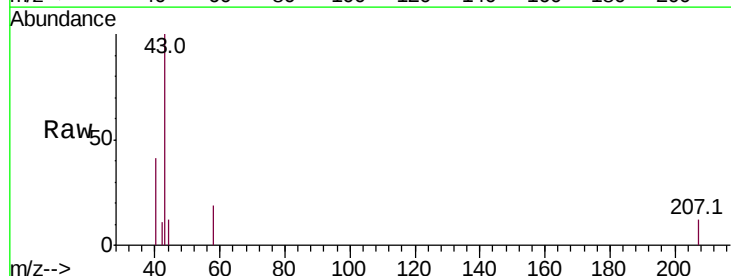
Tot Ion: 59 Resp: 73  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 5.9 8.9#

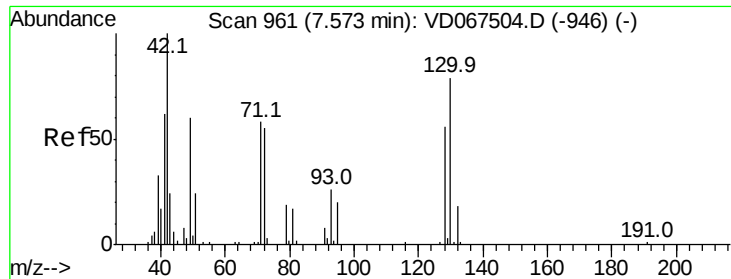


#16

Acetone  
 Concen: 11.297 ug/l  
 RT: 4.16 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VD067537.D  
 Acq: 05 Nov 2020 11:53

Tgt Ion: 43 Resp: 4625  
 Ion Ratio Lower Upper  
 43 100  
 58 18.8 25.2 37.8#





#29

Tetrahydrofuran

Concen: 2.065 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :

MSVOA\_D

ClientSampleId :

NB-08-110320

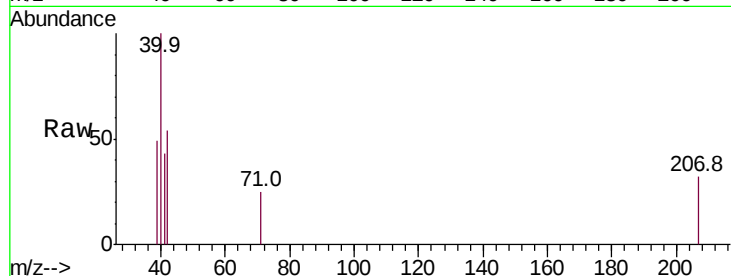
Tot Ion: 42 Resp: 541

Ion Ratio Lower Upper

42 100

72 0.0 46.3 69.5#

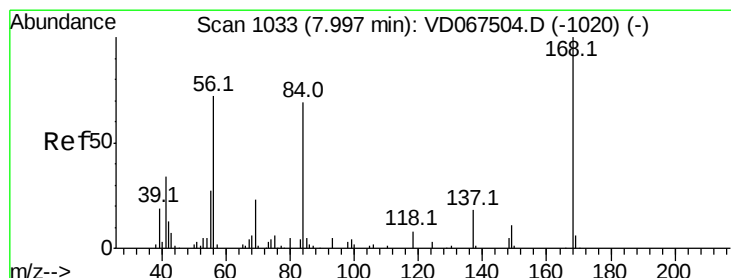
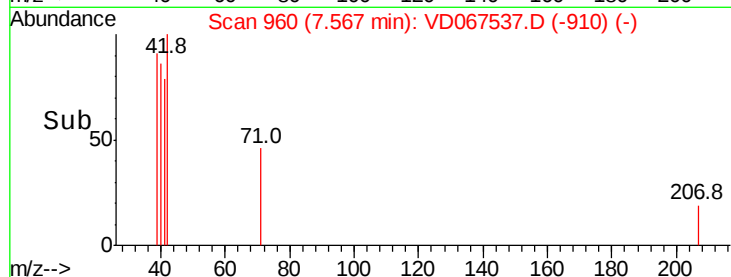
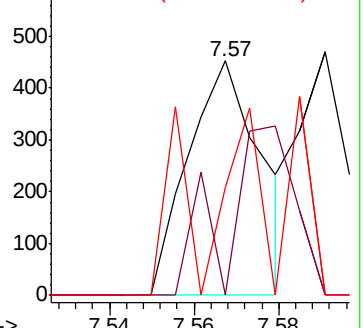
71 23.7 44.0 66.0#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.810 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

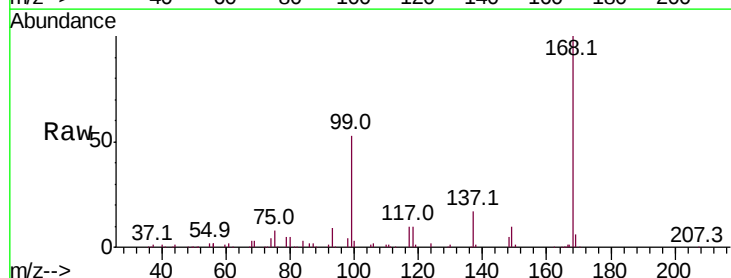
Tgt Ion: 56 Resp: 7181

Ion Ratio Lower Upper

56 100

69 89.9 25.9 38.9#

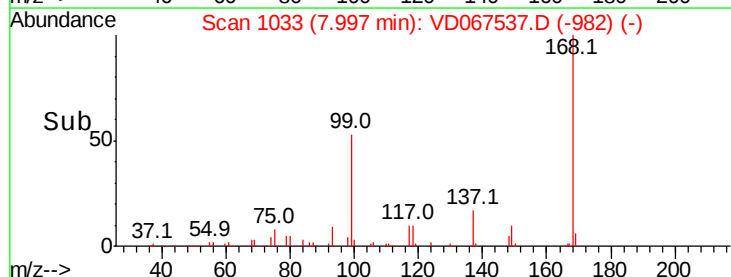
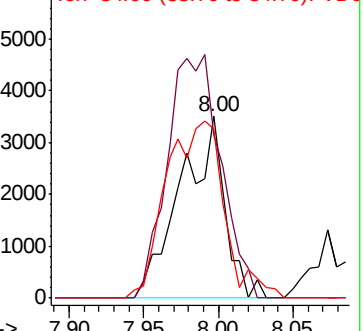
84 93.6 76.2 114.4

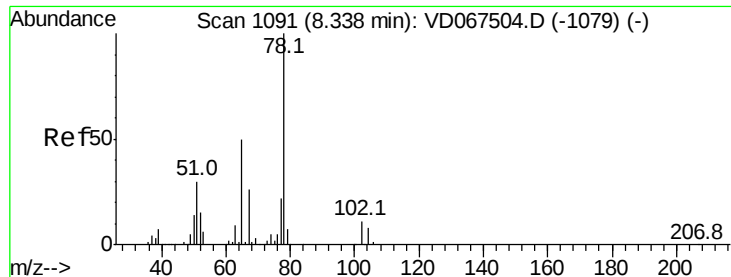


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 58.663 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

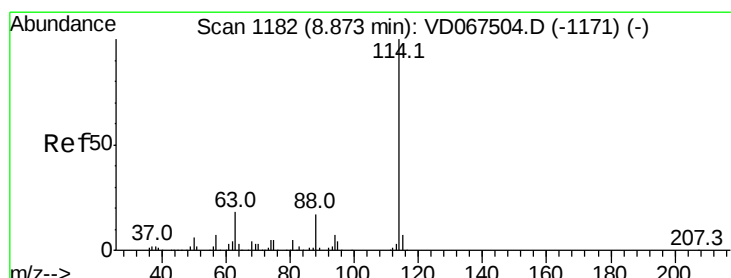
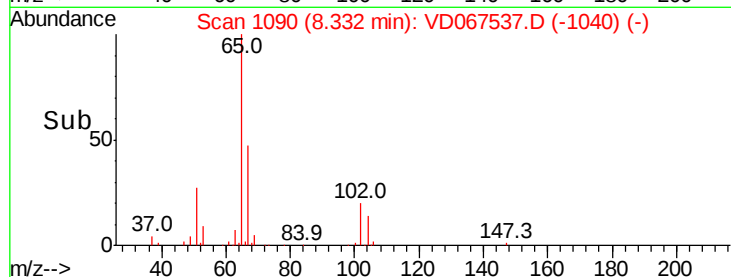
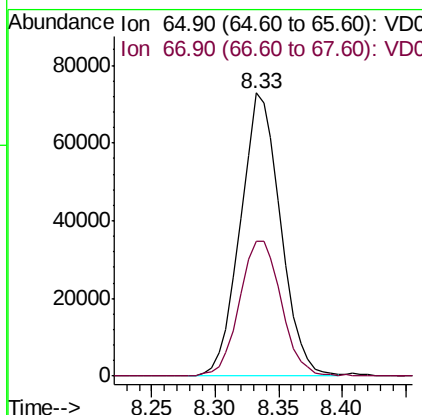
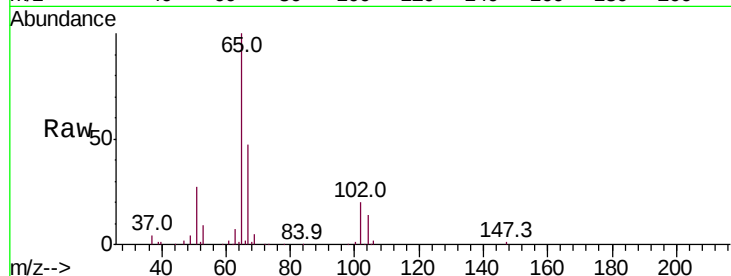
Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
NB-08-110320

Tot Ion: 65 Resp: 160495

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 49.7  | 0.0   | 99.4  |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

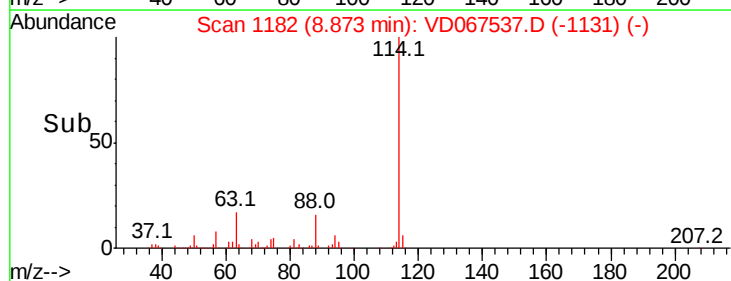
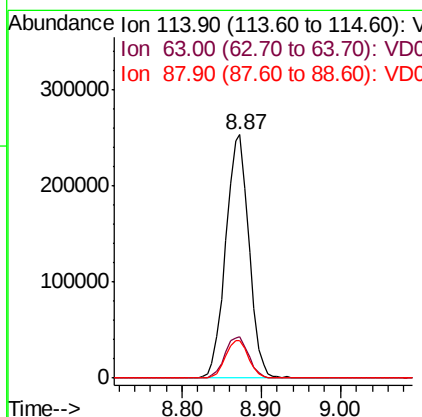
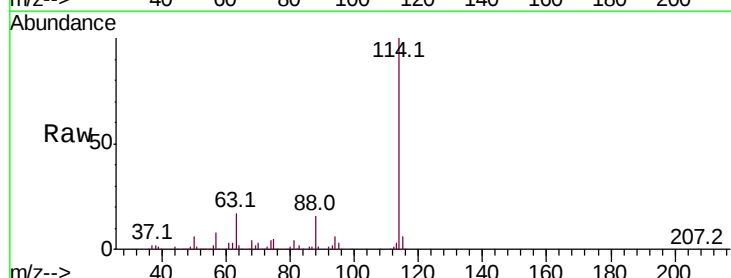
Delta R.T. 0.00 min

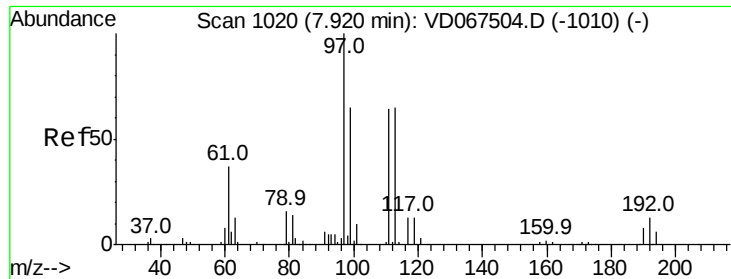
Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Tgt Ion: 114 Resp: 514314

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 17.1  | 0.0   | 35.0  |
| 88  | 15.5  | 0.0   | 33.0  |

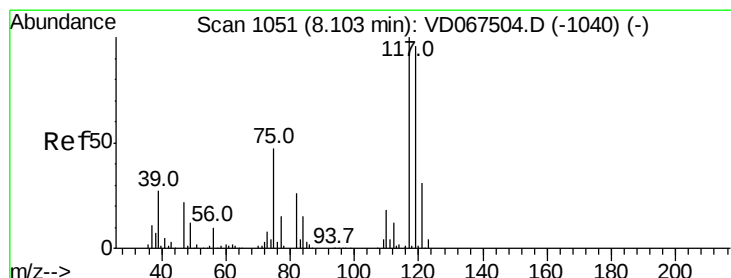
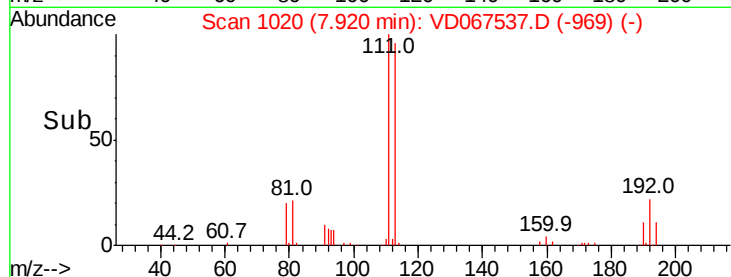
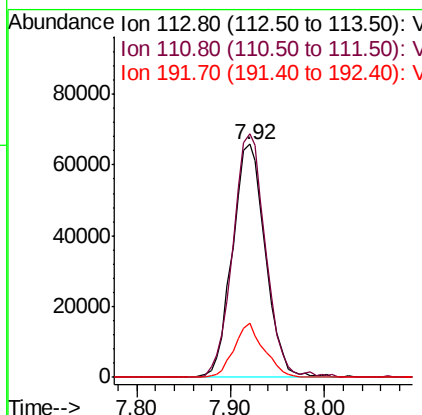
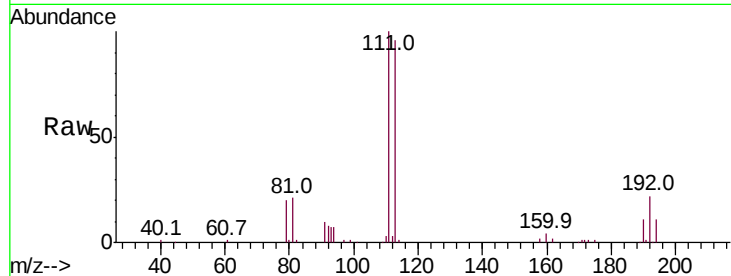




#35  
 Dibromofluoromethane  
 Concen: 51.636 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD067537.D  
 Acq: 05 Nov 2020 11:53

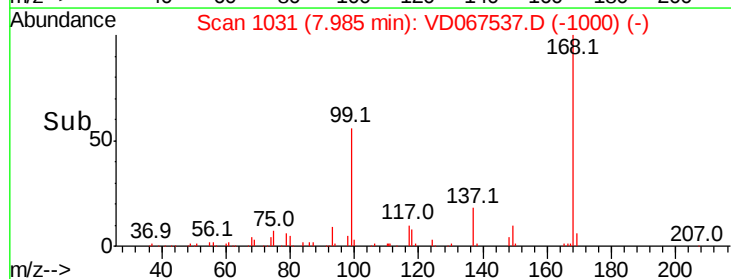
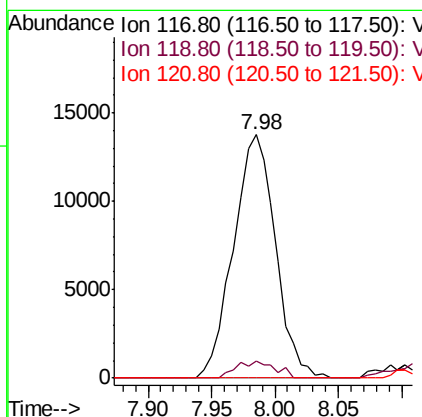
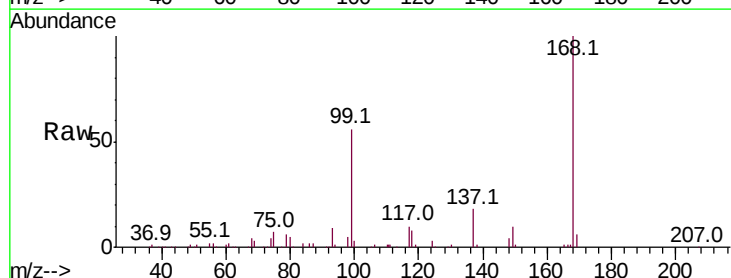
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NB-08-110320

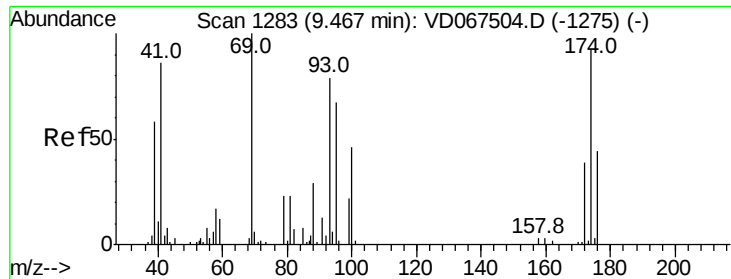
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 113   | Resp: | 160006 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 104.4 | 80.0  | 120.0  |
| 192      | 21.1  | 16.3  | 24.5   |



#38  
 Carbon Tetrachloride  
 Concen: 5.527 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.12 min  
 Lab File: VD067537.D  
 Acq: 05 Nov 2020 11:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 31614  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.9   | 76.9  | 115.3# |
| 121      | 0.0   | 24.5  | 36.7#  |





#49

1,4-Dioxane

Concen: 3.545 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :

MSVOA\_D

ClientSampleId :

NB-08-110320

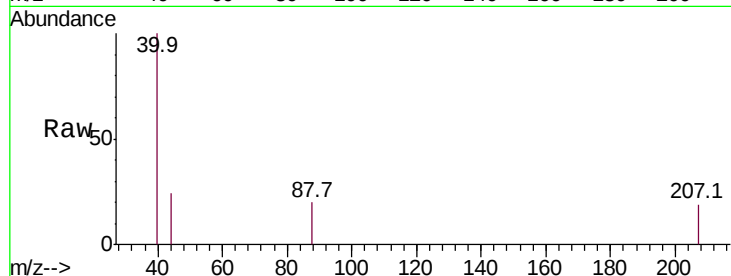
Tot Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

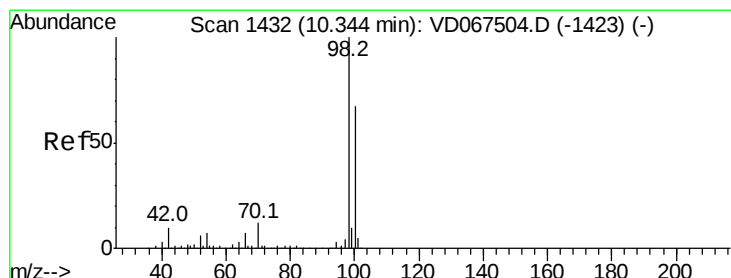
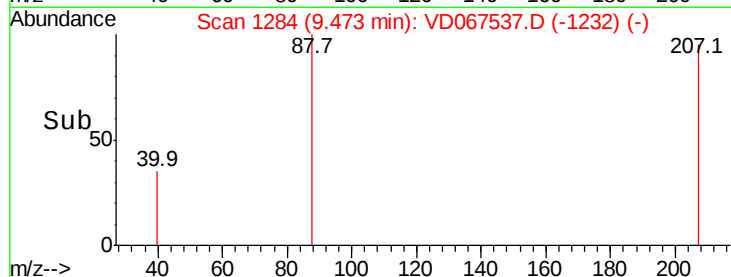
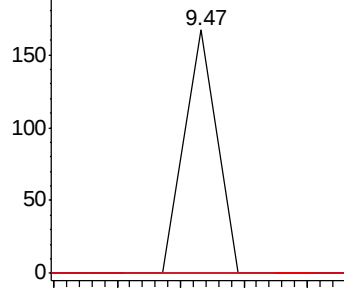
58 0.0 44.7 67.1#



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: 54.432 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067537.D

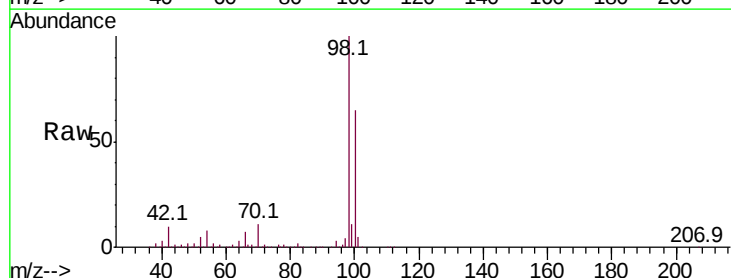
Acq: 05 Nov 2020 11:53

Tgt Ion: 98 Resp: 592748

Ion Ratio Lower Upper

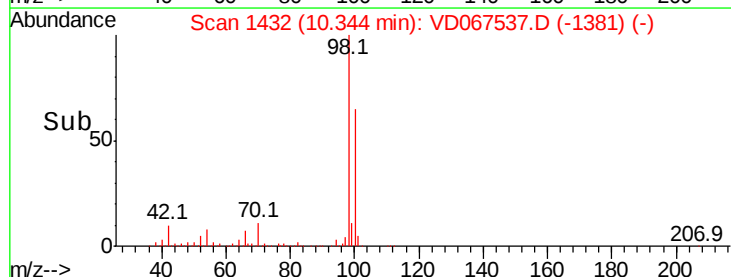
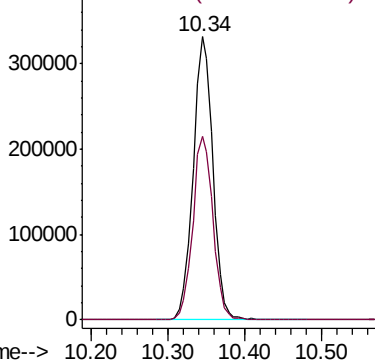
98 100

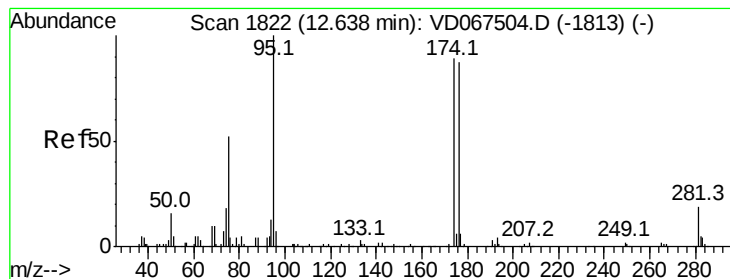
100 66.3 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 58.747 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :

MSVOA\_D

ClientSampleId :

NB-08-110320

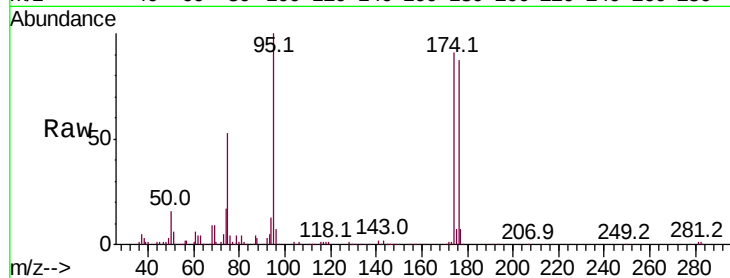
Tot Ion: 95 Resp: 220866

Ion Ratio Lower Upper

95 100

174 89.7 0.0 177.8

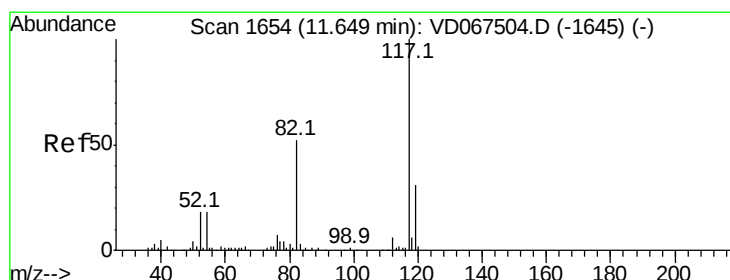
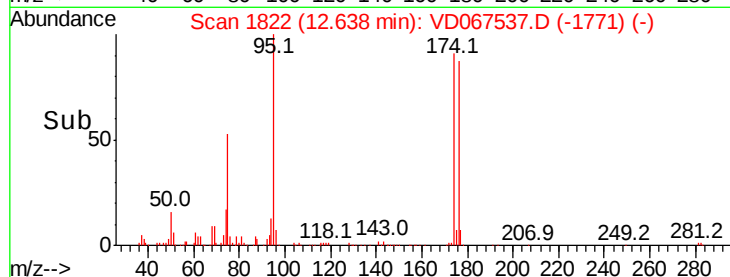
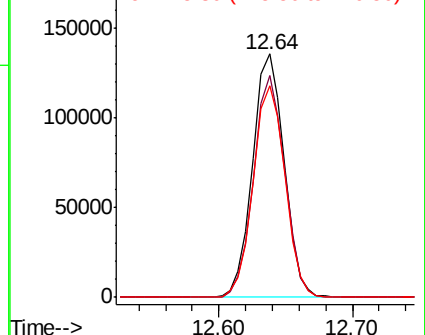
176 87.3 0.0 172.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

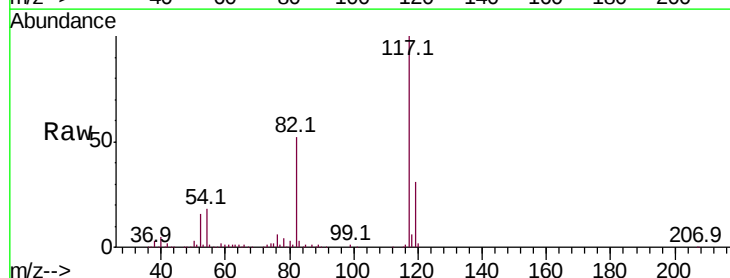
Tgt Ion: 117 Resp: 507876

Ion Ratio Lower Upper

117 100

82 52.0 41.6 62.4

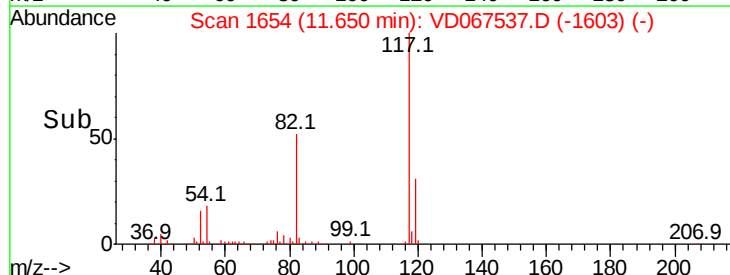
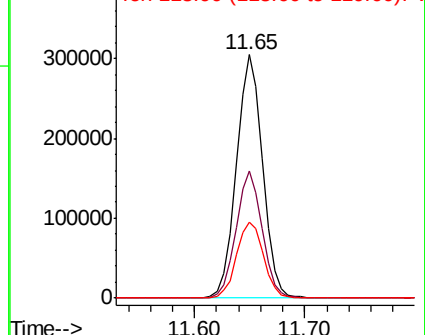
119 31.3 25.1 37.7

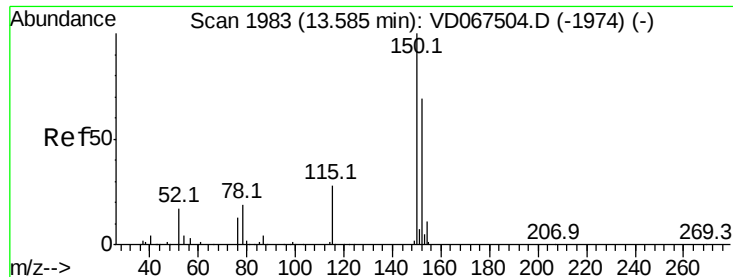


Abundance Ion 116.90 (116.60 to 117.60): V

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. -0.01 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :

MSVOA\_D

ClientSampleId :

NB-08-110320

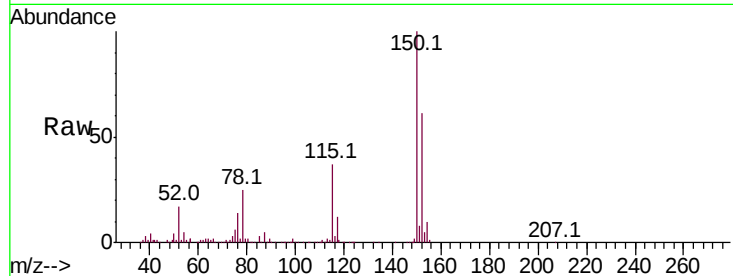
Tot Ion:152 Resp: 265475

Ion Ratio Lower Upper

152 100

115 60.4 29.3 88.0

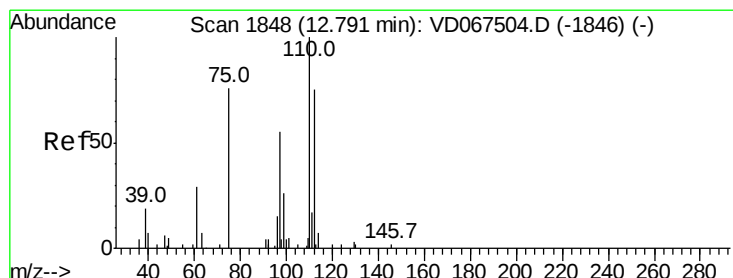
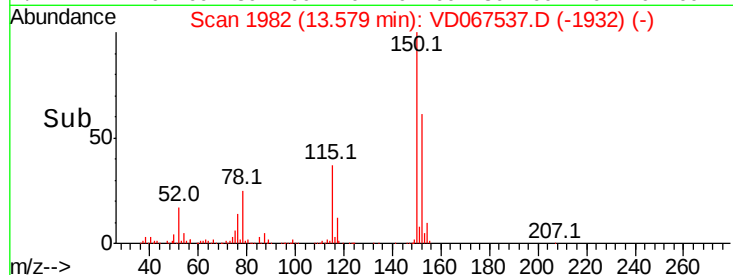
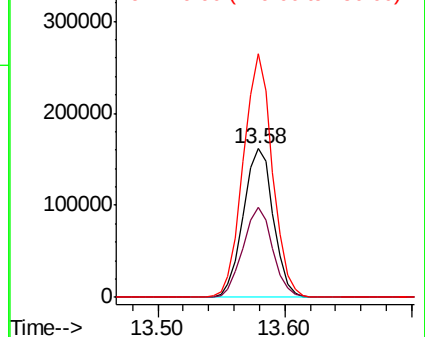
150 158.6 0.0 338.2



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: 69.501 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067537.D

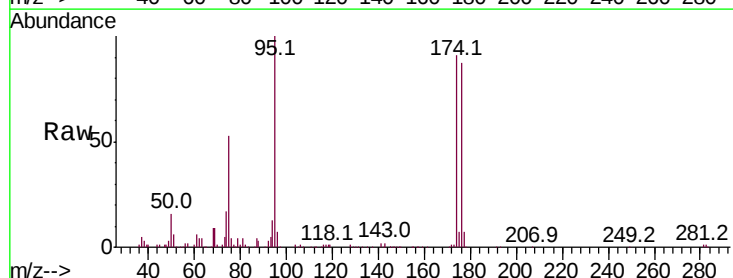
Acq: 05 Nov 2020 11:53

Tgt Ion: 75 Resp: 111306

Ion Ratio Lower Upper

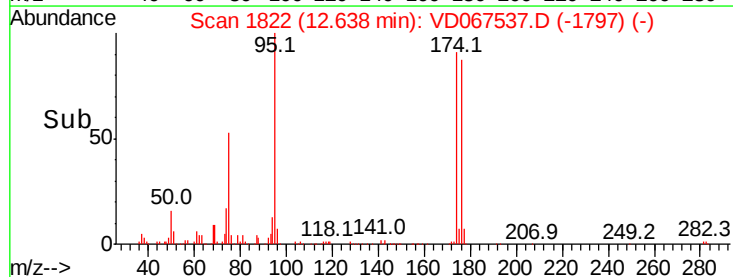
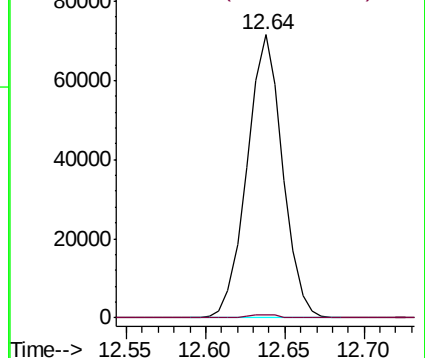
75 100

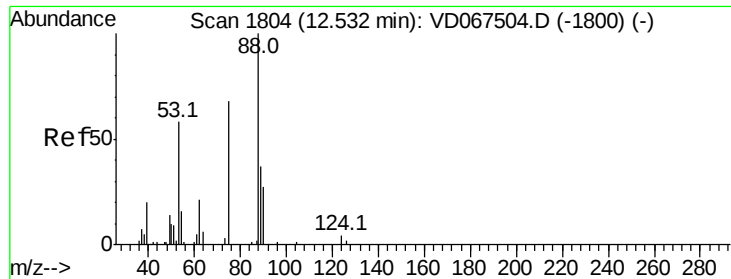
77 1.1 0.0 0.0#



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: 141.106 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :

MSVOA\_D

ClientSampleId :

NB-08-110320

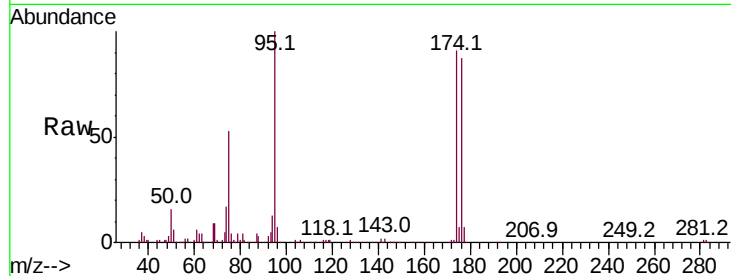
Tot Ion: 75 Resp: 111306

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

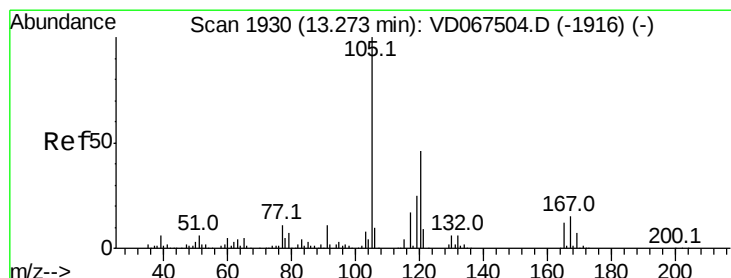
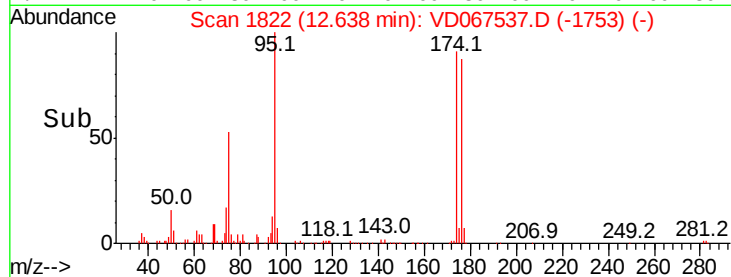
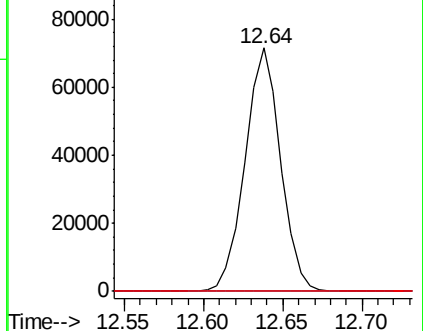
89 0.0 44.6 67.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 3.582 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD067537.D

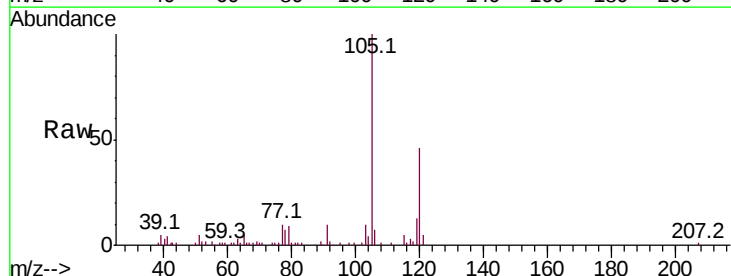
Acq: 05 Nov 2020 11:53

Tgt Ion: 105 Resp: 52257

Ion Ratio Lower Upper

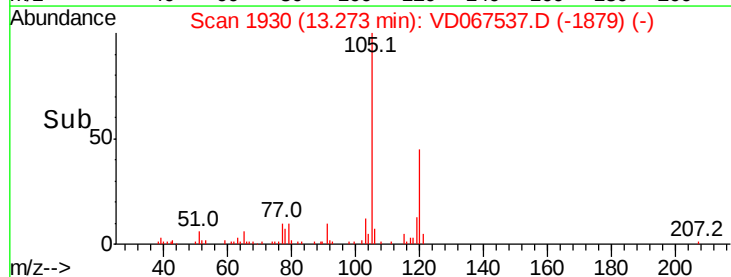
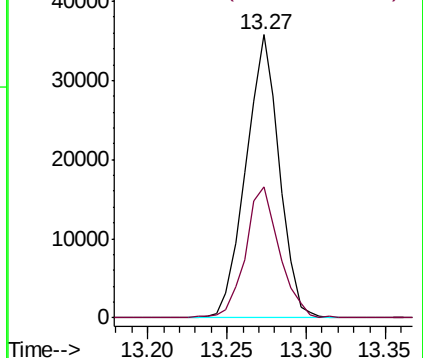
105 100

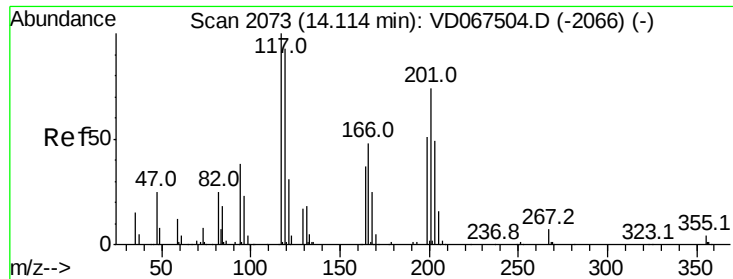
120 47.3 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.659 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Instrument :

MSVOA\_D

ClientSampleId :

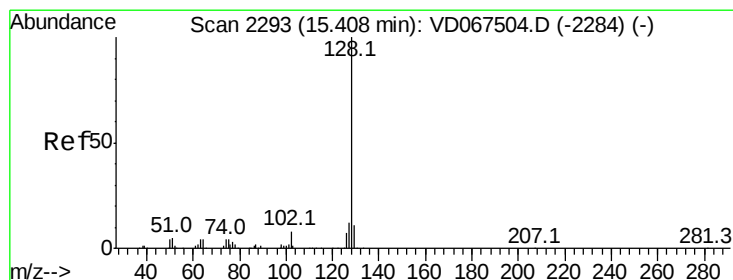
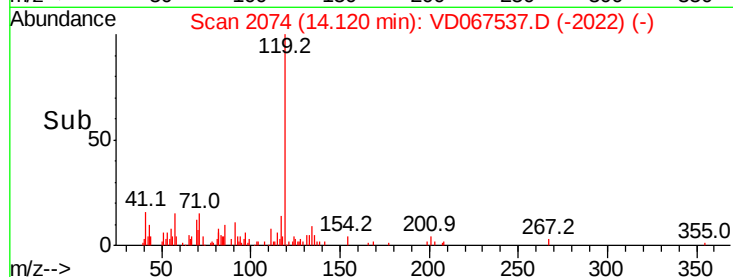
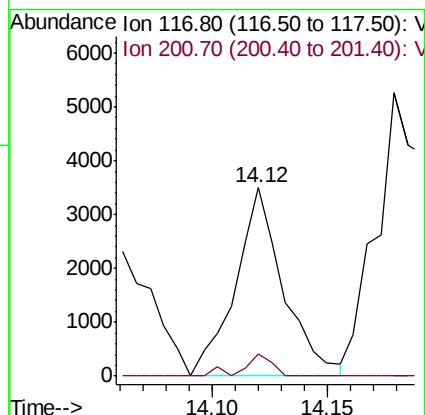
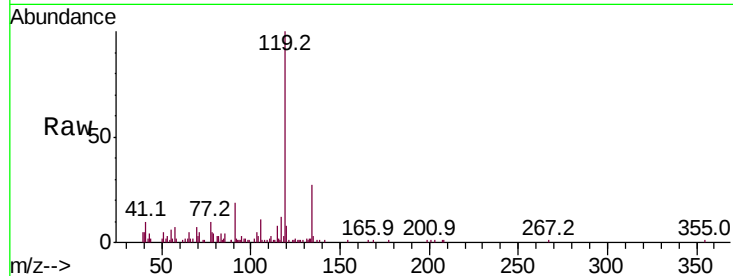
NB-08-110320

Tot Ion:117 Resp: 5058

Ion Ratio Lower Upper

117 100

201 6.8 40.7 122.1#



#95

Naphthalene

Concen: 3.216 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD067537.D

Acq: 05 Nov 2020 11:53

Tgt Ion:128 Resp: 23437

Ion Ratio Lower Upper

128 100

127 18.1 10.2 15.4#

129 10.5 8.9 13.3

