

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\  
 Data File : VN049337.D  
 Acq On : 18 Jun 2018 12:38  
 Operator : MD\SY  
 Sample : J3493-01ME  
 Misc : 5.10µL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 19 01:29:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 1278699  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1916503  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1700331  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 609567   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 792258   | 46.71 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.42% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 709914   | 45.79 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.58% |      |
| 50) Toluene-d8            | 10.09  | 98  | 2676884  | 45.34 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.68% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 816008   | 41.80 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 83.60% |      |

## Target Compounds

|                                |       |     |         |        |        | Qvalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 3) Chloromethane               | 2.05  | 50  | 4443    | 0.23   | ug/l   | 99     |
| 10) Methyl Iodide              | 3.93  | 142 | 5660    | 0.34   | ug/l   | 95     |
| 11) Tert butyl alcohol         | 4.73  | 59  | 9533    | 9.58   | ug/l # | 70     |
| 13) Acrolein                   | 3.60  | 56  | 364     | 0.35   | ug/l # | 1      |
| 16) Acetone                    | 3.82  | 43  | 2783    | 0.68   | ug/l # | 88     |
| 17) Carbon Disulfide           | 4.03  | 76  | 10291   | 0.22   | ug/l   | 97     |
| 18) Methyl Acetate             | 4.33  | 43  | 33370   | 2.66   | ug/l   | 95     |
| 20) Methylene Chloride         | 4.54  | 84  | 3534    | 0.21   | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene   | 5.02  | 96  | 4441    | 0.29   | ug/l   | 86     |
| 25) 2-Butanone                 | 6.85  | 43  | 1488    | 0.27   | ug/l # | 69     |
| 27) cis-1,2-Dichloroethene     | 6.82  | 96  | 148840  | 8.62   | ug/l   | 82     |
| 29) Tetrahydrofuran            | 7.23  | 42  | 6308    | 1.77   | ug/l # | 68     |
| 31) Cyclohexane                | 7.66  | 56  | 22657   | 0.73   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75  | 85959   | 3.91   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.66  | 117 | 114070  | 5.02   | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.18  | 43  | 17975   | 0.79   | ug/l # | 70     |
| 44) Trichloroethene            | 8.83  | 130 | 229268  | 12.89  | ug/l   | 94     |
| 49) 1,4-Dioxane                | 9.21  | 88  | 836     | 5.64   | ug/l # | 84     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43  | 5123    | 0.43   | ug/l   | 90     |
| 55) 1,1,2-Trichloroethane      | 10.63 | 97  | 10438   | 0.71   | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63  | 168     | 14.35  | ug/l # | 51     |
| 59) 2-Hexanone                 | 10.76 | 43  | 5248    | 0.68   | ug/l   | 88     |
| 60) Dibromochloromethane       | 10.63 | 129 | 1233627 | 75.02  | ug/l # | 10     |
| 64) Tetrachloroethene          | 10.63 | 164 | 1428852 | 82.01  | ug/l   | 99     |
| 74) N-amyl acetate             | 12.08 | 43  | 2887    | 0.22   | ug/l # | 92     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83  | 1140    | Below  | Cal #  | 73     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 394017  | 37.88  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 394017  | 119.73 | ug/l # | 9      |
| 89) n-Butylbenzene             | 13.61 | 91  | 7215    | 0.22   | ug/l   | 96     |
| 90) Hexachloroethane           | 13.87 | 117 | 558     | Below  | Cal #  | 22     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180 | 7202    | 5.37   | ug/l   | 97     |
| 94) Hexachlorobutadiene        | 15.02 | 225 | 3149    | Below  | Cal    | 96     |
| 95) Naphthalene                | 15.14 | 128 | 14305   | 2.92   | ug/l # | 97     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180 | 6497    | 4.05   | ug/l   | 98     |

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Sample : J3493-01ME  
Misc : 5.10g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jun 19 01:29:08 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:02:01 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

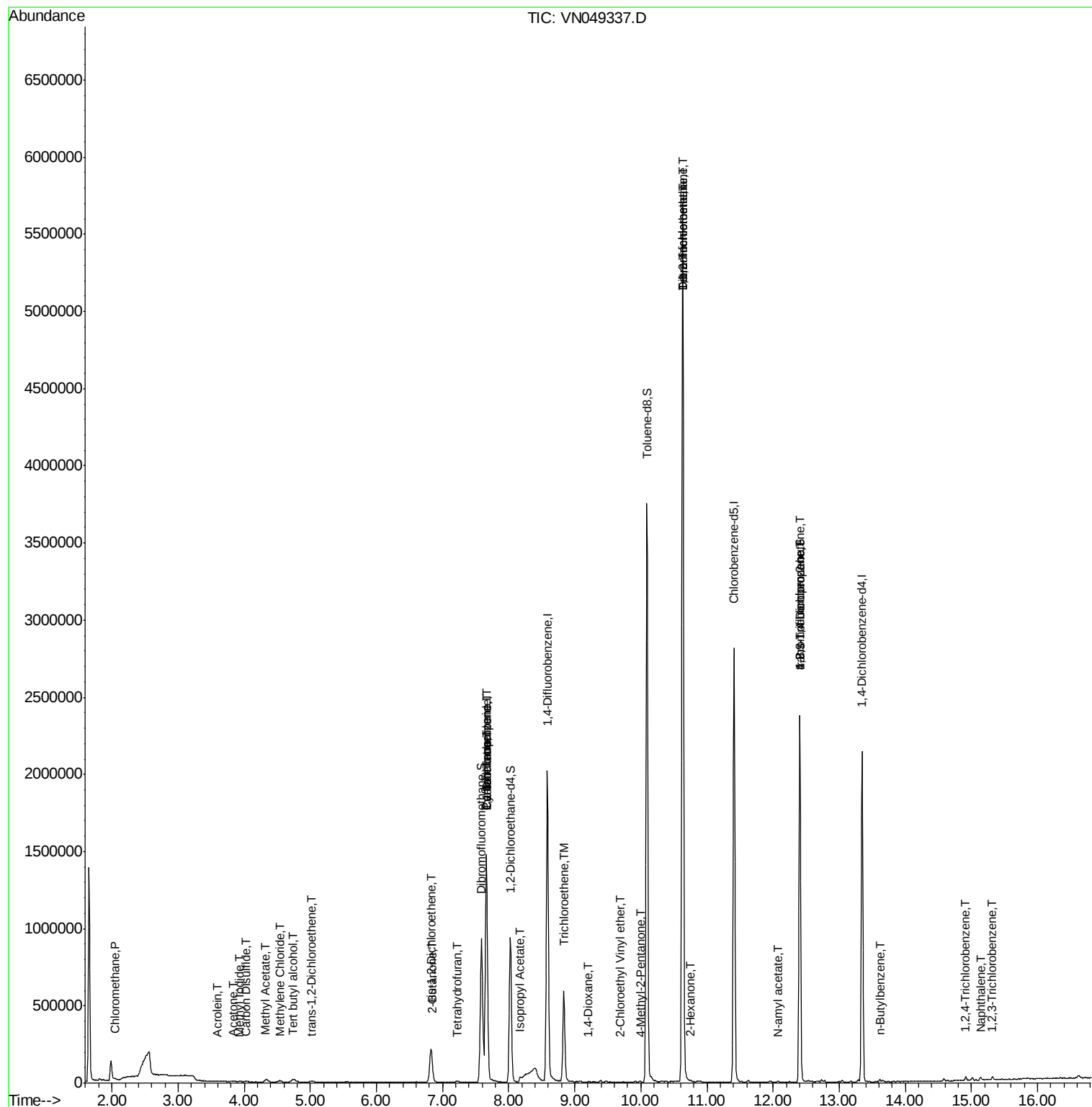
|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

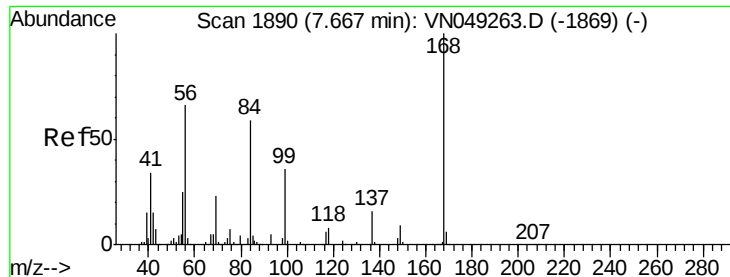
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 19 01:29:08 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:02:01 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

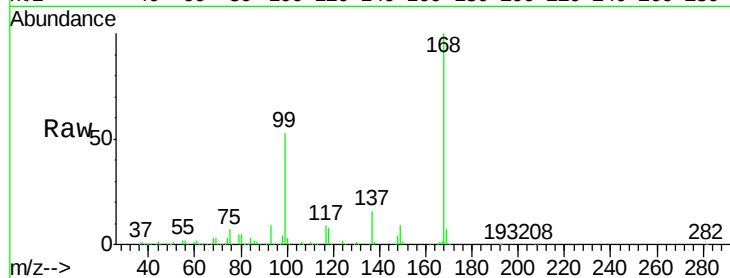
ClientSampled :

Tot Ion:168 Resp: 1278699

Ion Ratio Lower Upper

168 100

99 52.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

500000

400000

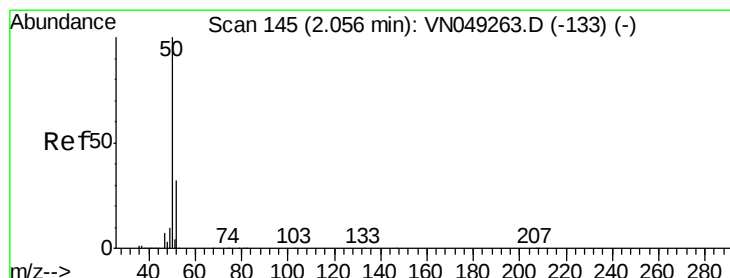
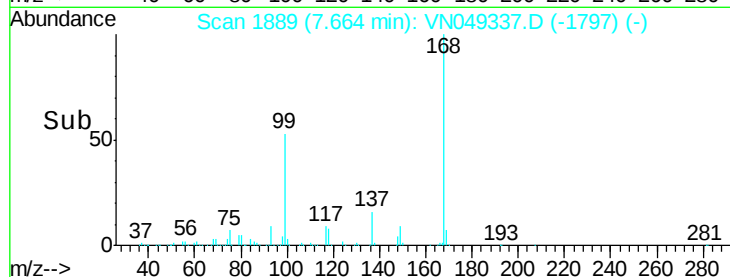
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.05 min Scan# 143

Delta R.T. -0.01 min

Lab File: VN049337.D

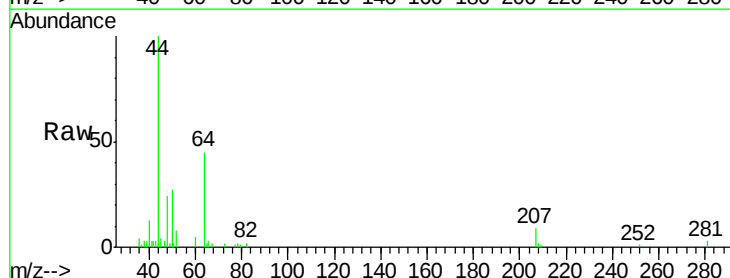
Acq: 18 Jun 2018 12:38

Tgt Ion: 50 Resp: 4443

Ion Ratio Lower Upper

50 100

52 32.1 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.05

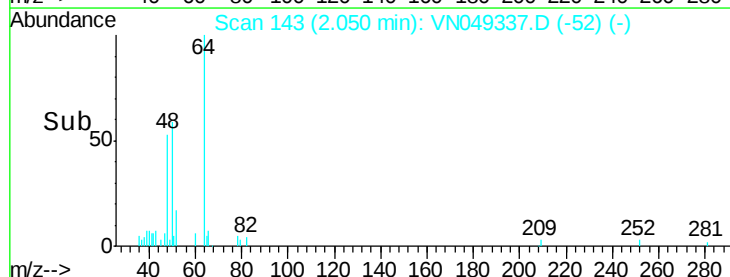
3000

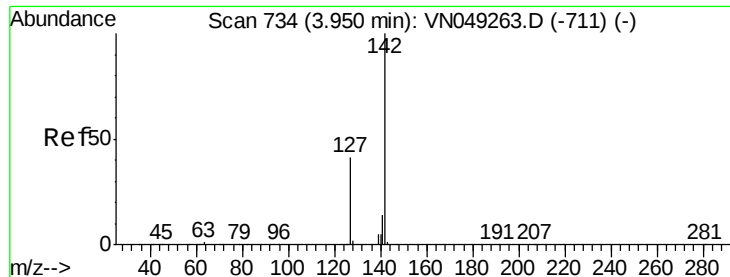
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1000

0

Time-->

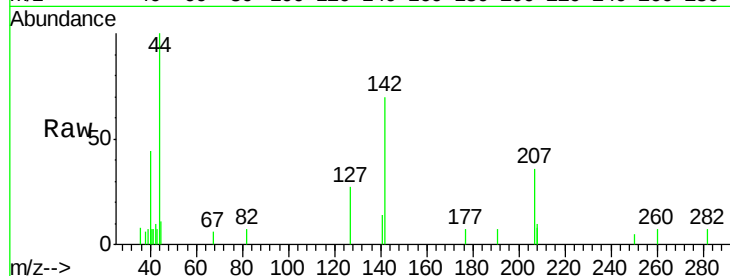




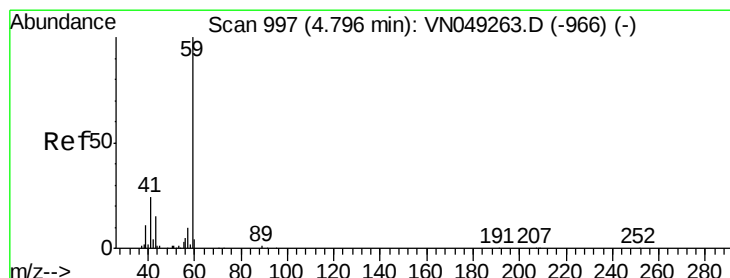
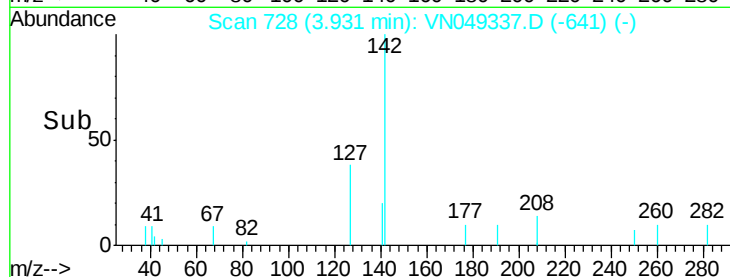
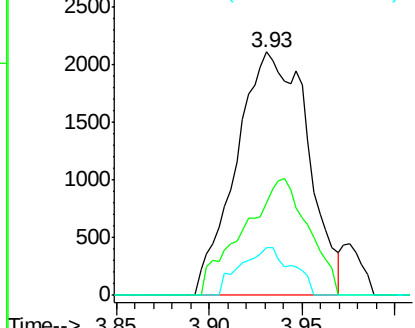
#10  
Methvl Iodide  
Concen: 0.34 ug/l  
RT: 3.93 min Scan# 728  
Delta R.T. -0.02 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:142 Resp: 5660  
Ion Ratio Lower Upper  
142 100  
127 43.8 38.2 57.4  
141 14.2 11.9 17.9

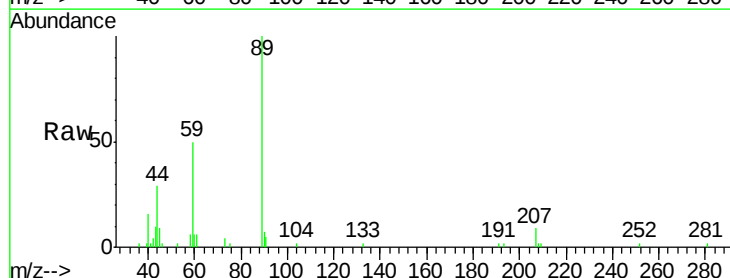


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

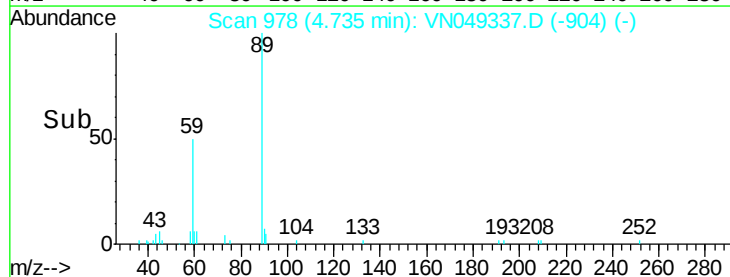
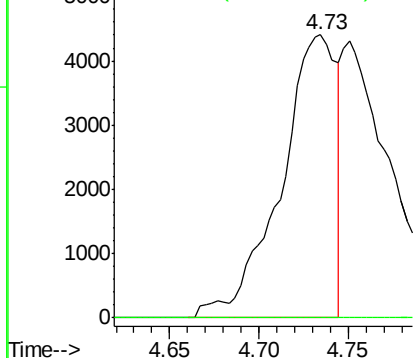


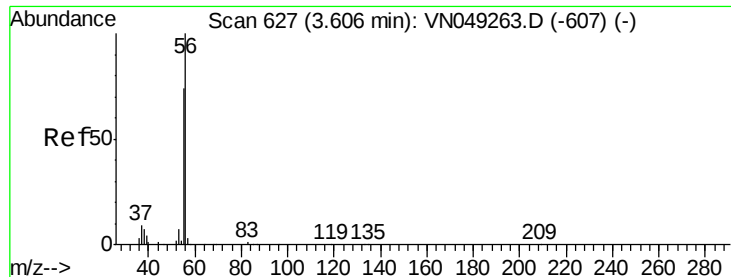
#11  
Tert butyl alcohol  
Concen: 9.58 ug/l  
RT: 4.73 min Scan# 978  
Delta R.T. -0.06 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Tgt Ion: 59 Resp: 9533  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): V  
Ion 57.00 (56.70 to 57.70): V





#13

Acrolein

Concen: 0.35 ug/l

RT: 3.60 min Scan# 624

Delta R.T. -0.01 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

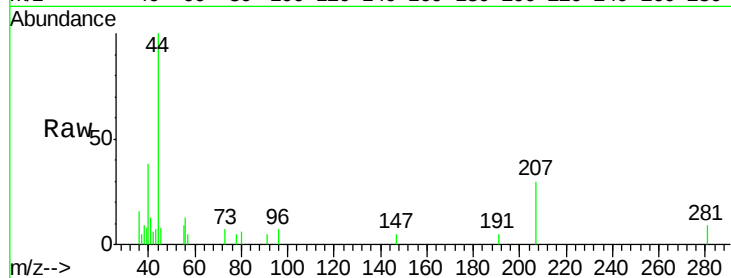
ClientSampled :

Tot Ion: 56 Resp: 364

Ion Ratio Lower Upper

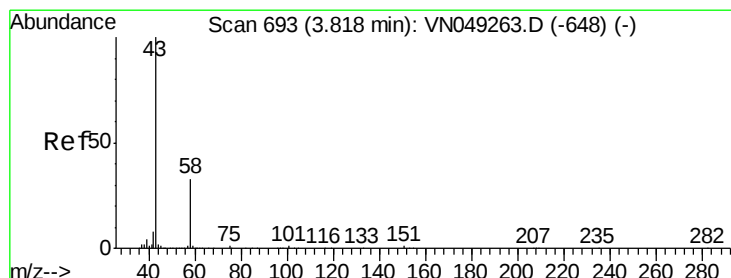
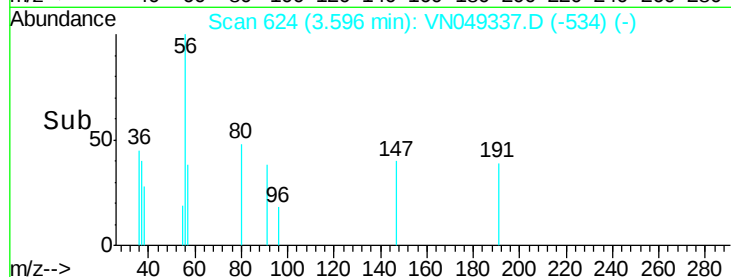
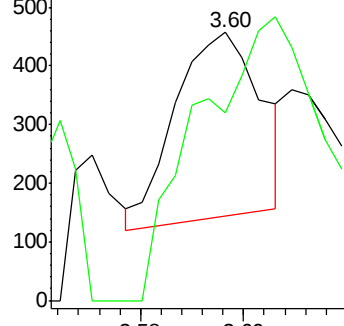
56 100

55 211.8 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.68 ug/l

RT: 3.82 min Scan# 693

Delta R.T. 0.00 min

Lab File: VN049337.D

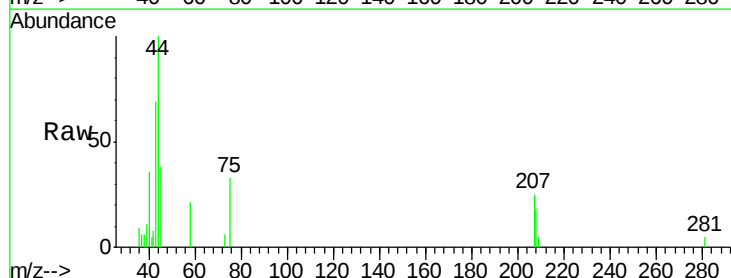
Acq: 18 Jun 2018 12:38

Tgt Ion: 43 Resp: 2783

Ion Ratio Lower Upper

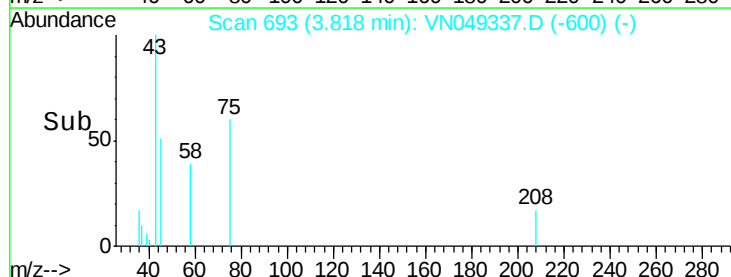
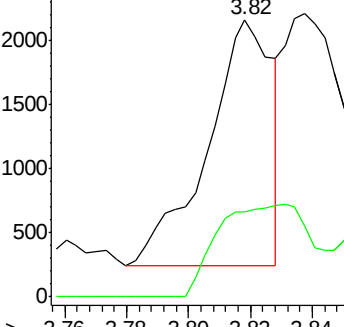
43 100

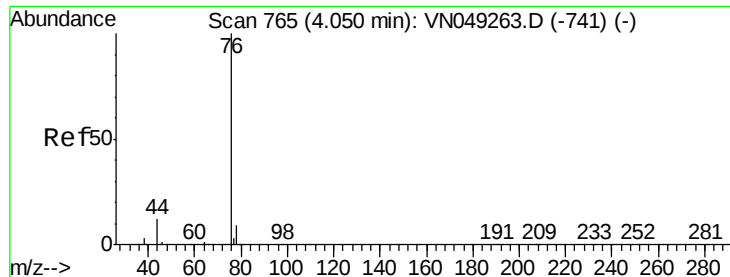
58 34.3 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

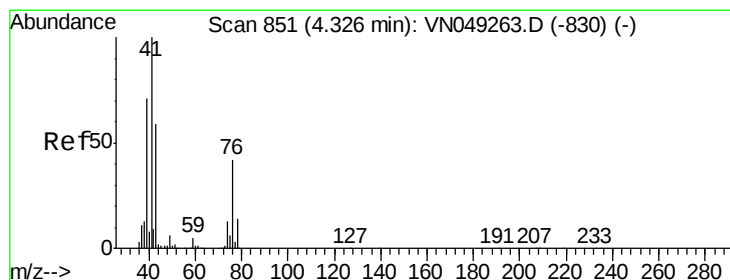
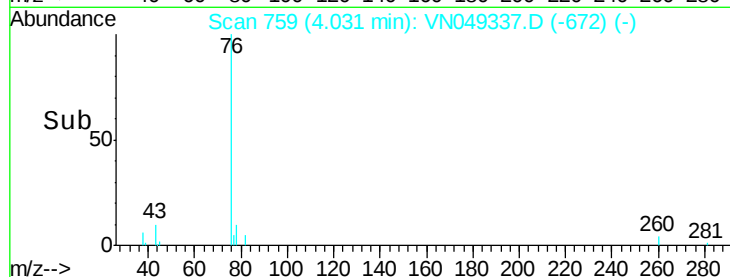
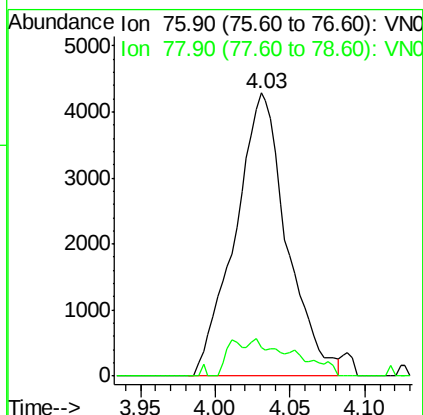
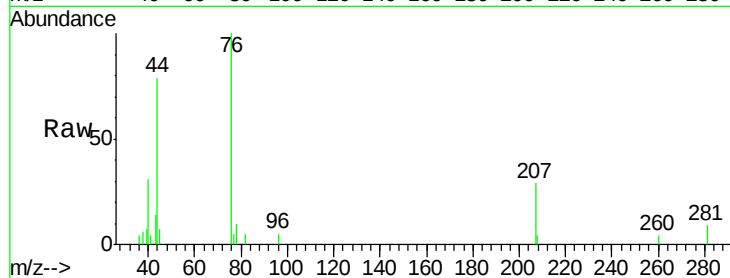




#17  
Carbon Disulfide  
Concen: 0.22 ug/l  
RT: 4.03 min Scan# 759  
Delta R.T. -0.02 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

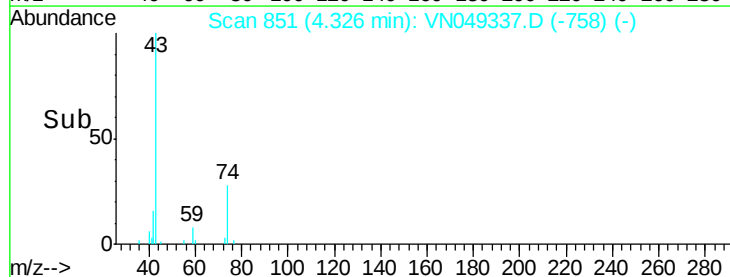
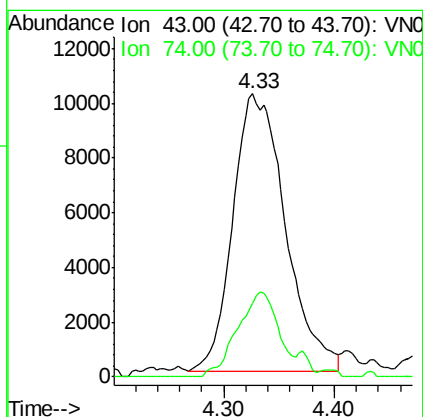
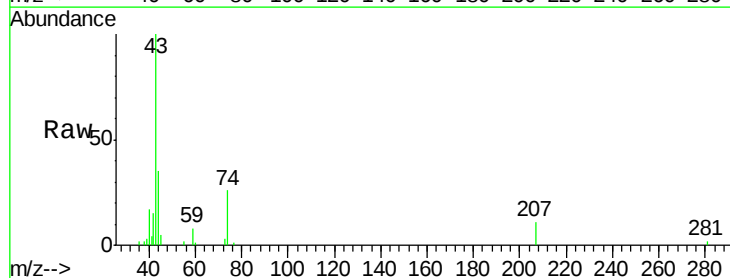
Instrument :  
MSVOA\_N  
ClientSampleId :

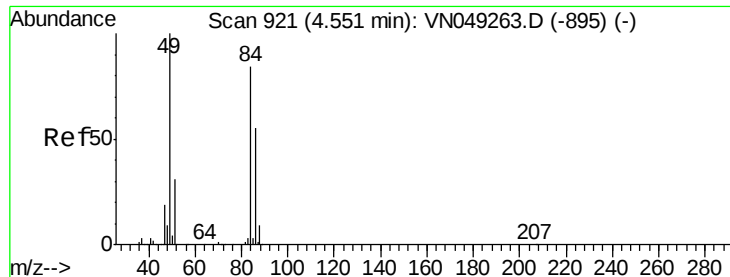
Tot Ion: 76 Resp: 10291  
Ion Ratio Lower Upper  
76 100  
78 10.2 7.4 11.0



#18  
Methyl Acetate  
Concen: 2.66 ug/l  
RT: 4.33 min Scan# 851  
Delta R.T. 0.00 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Tgt Ion: 43 Resp: 33370  
Ion Ratio Lower Upper  
43 100  
74 24.0 17.4 26.0

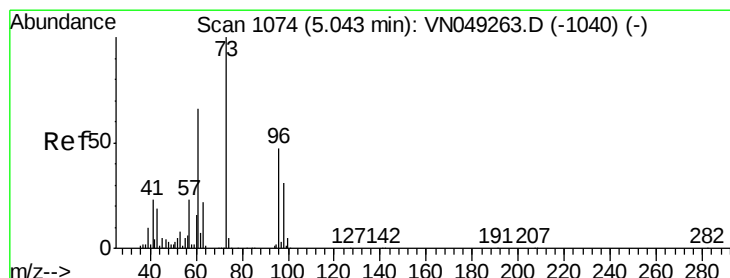
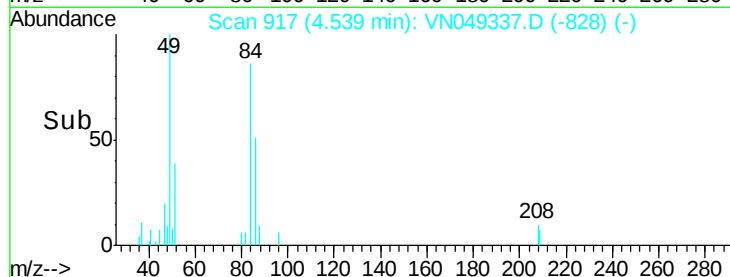
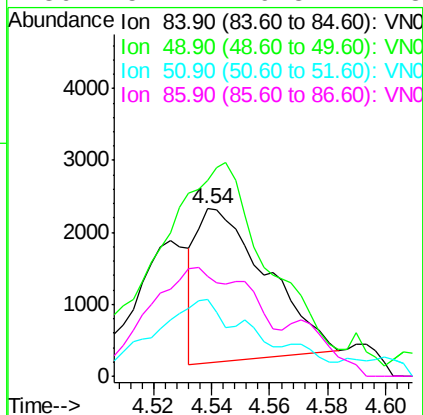
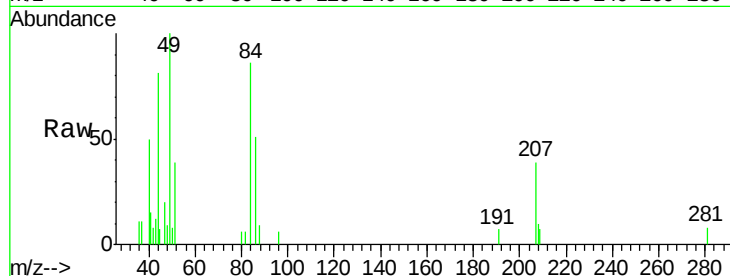




#20  
Methvlene Chloride  
Concen: 0.21 ug/l  
RT: 4.54 min Scan# 917  
Delta R.T. -0.01 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

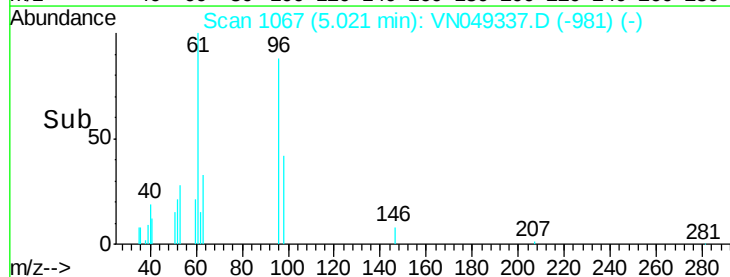
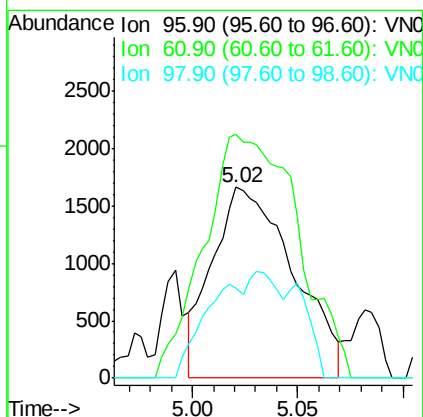
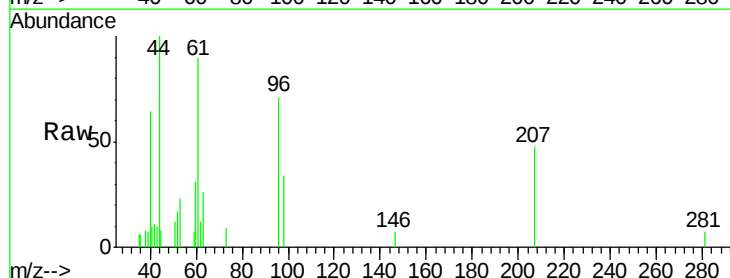
Instrument :  
MSVOA\_N  
ClientSampled :

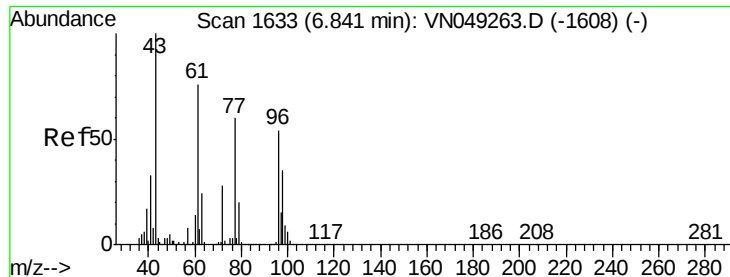
Tot Ion: 84 Resp: 3534  
Ion Ratio Lower Upper  
84 100  
49 119.7 106.9 160.3  
51 44.2 32.7 49.1  
86 57.4 49.8 74.8



#21  
trans-1,2-Dichloroethene  
Concen: 0.29 ug/l  
RT: 5.02 min Scan# 1067  
Delta R.T. -0.02 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Tgt Ion: 96 Resp: 4441  
Ion Ratio Lower Upper  
96 100  
61 130.7 121.3 181.9  
98 58.4 52.0 78.0





#25

2-Butanone

Concen: 0.27 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

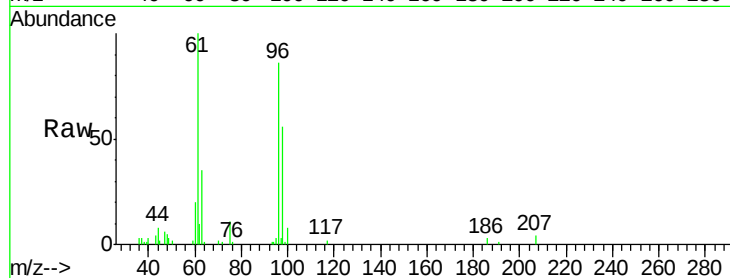
ClientSampleId :

Tot Ion: 43 Resp: 1488

Ion Ratio Lower Upper

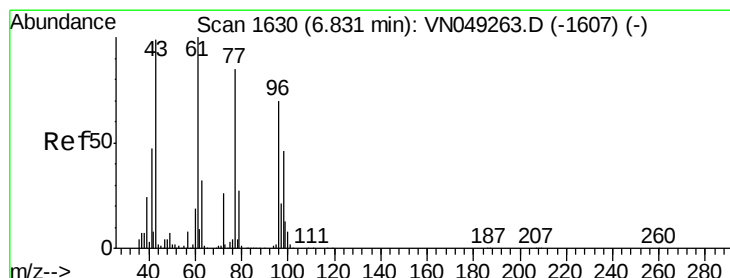
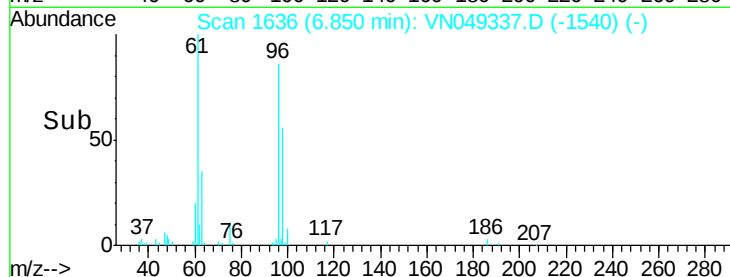
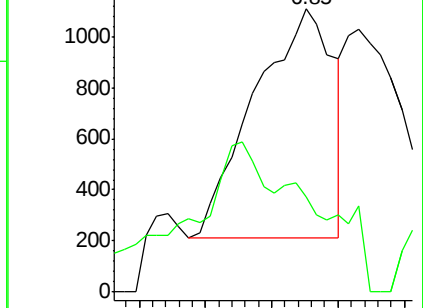
43 100

72 9.4 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-1608) (-)

Ion 72.00 (71.70 to 72.70): VN049263.D (-1608) (-)



#27

cis-1,2-Dichloroethene

Concen: 8.62 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.01 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

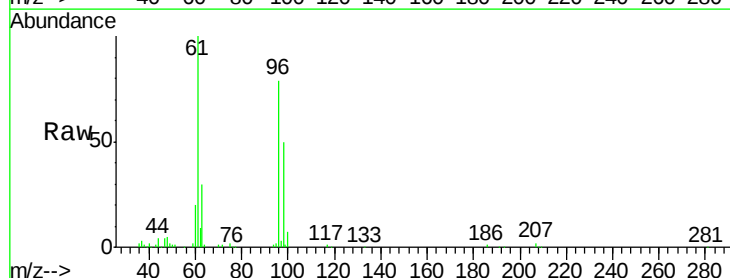
Tgt Ion: 96 Resp: 148840

Ion Ratio Lower Upper

96 100

61 125.7 0.0 316.4

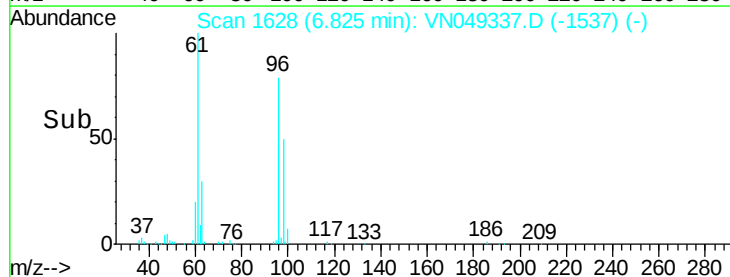
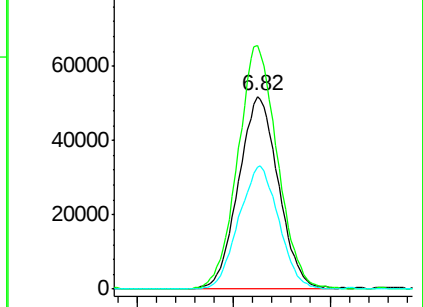
98 63.9 0.0 128.4

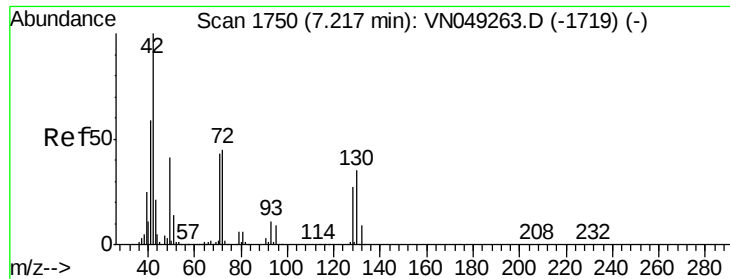


Abundance Ion 95.90 (95.60 to 96.60): VN049263.D (-1607) (-)

Ion 60.90 (60.60 to 61.60): VN049263.D (-1607) (-)

Ion 97.90 (97.60 to 98.60): VN049263.D (-1607) (-)

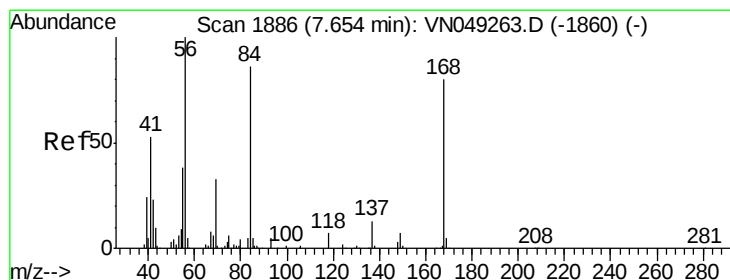
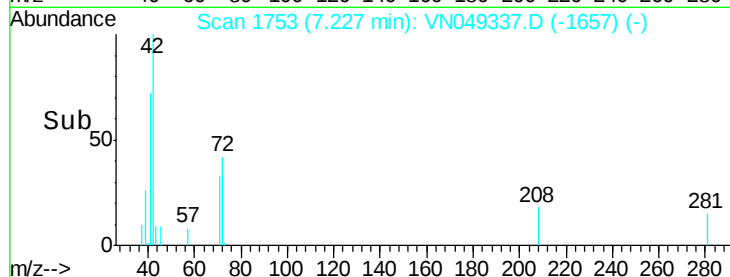
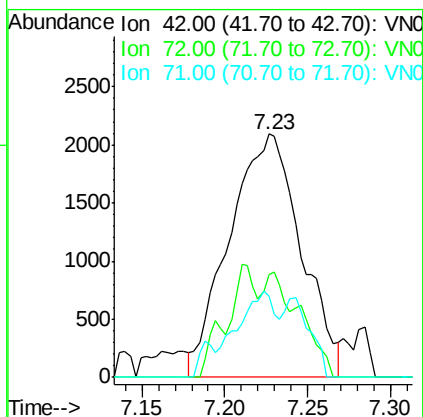
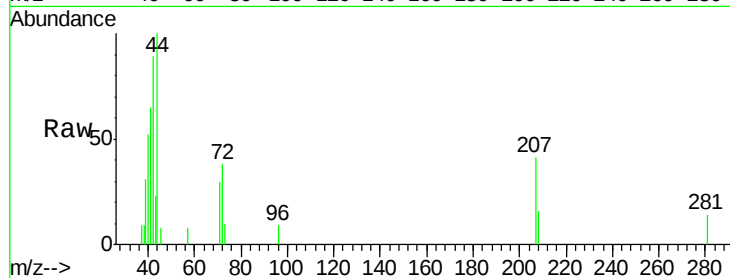




#29  
Tetrahydrofuran  
Concen: 1.77 ug/l  
RT: 7.23 min Scan# 1753  
Delta R.T. 0.01 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

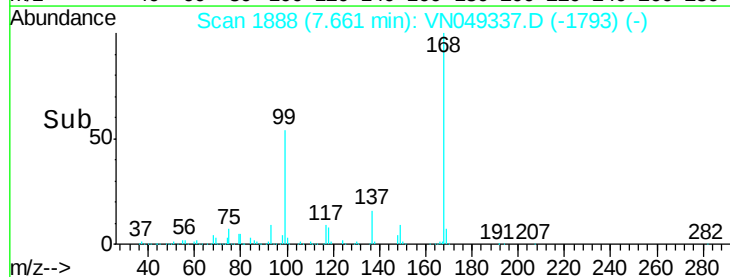
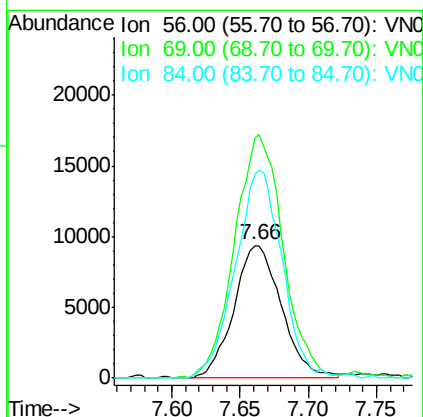
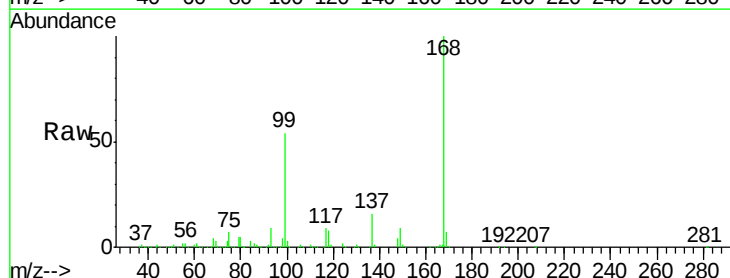
Instrument :  
MSVOA\_N  
ClientSampled :

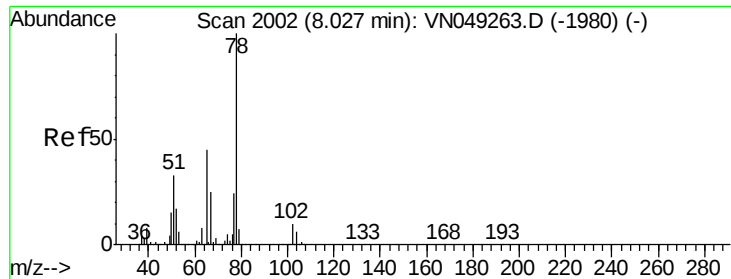
Tot Ion: 42 Resp: 6308  
Ion Ratio Lower Upper  
42 100  
72 20.1 32.2 48.4#  
71 19.0 30.5 45.7#



#31  
Cyclohexane  
Concen: 0.73 ug/l  
RT: 7.66 min Scan# 1888  
Delta R.T. 0.01 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Tgt Ion: 56 Resp: 22657  
Ion Ratio Lower Upper  
56 100  
69 180.4 25.0 37.4#  
84 153.4 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 46.71 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. 0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

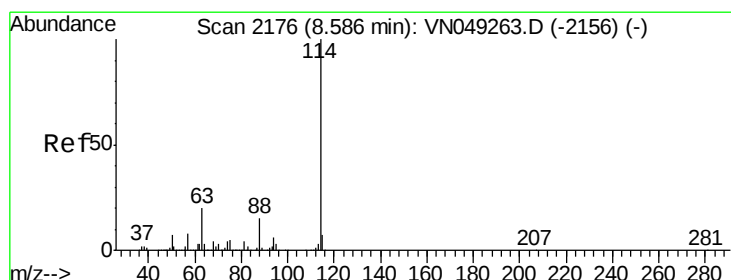
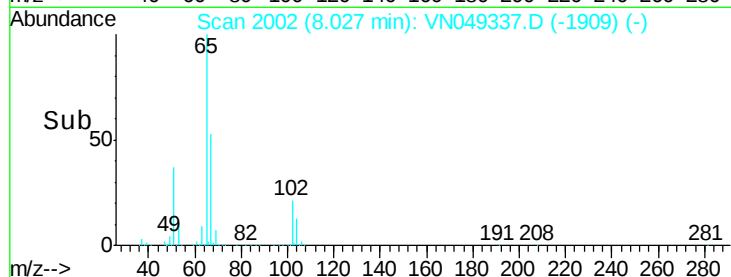
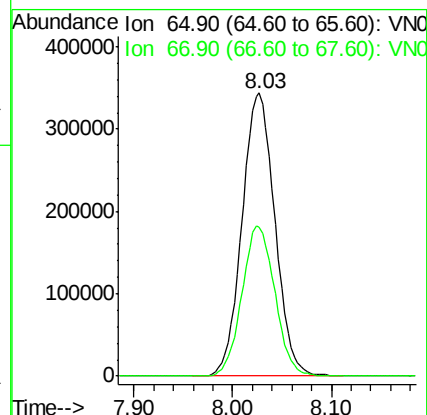
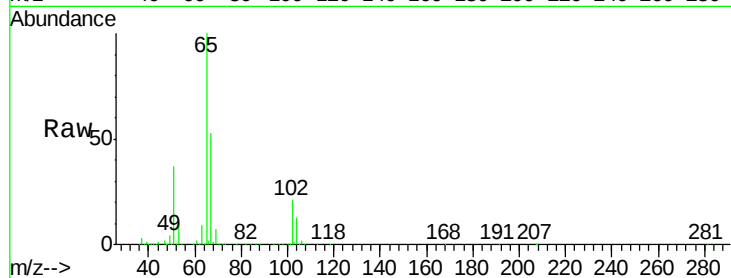
ClientSampleId :

Tot Ion: 65 Resp: 792258

Ion Ratio Lower Upper

65 100

67 53.2 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

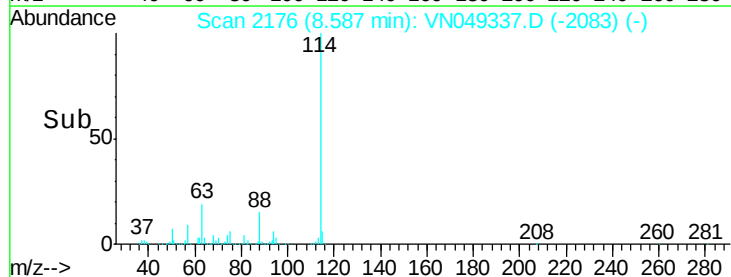
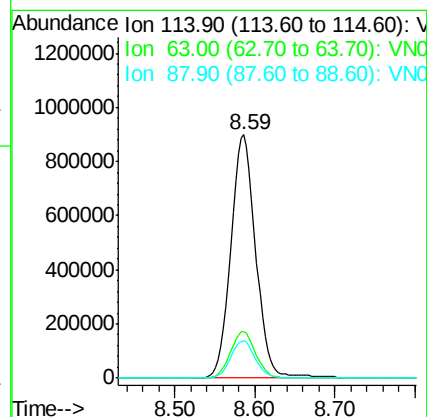
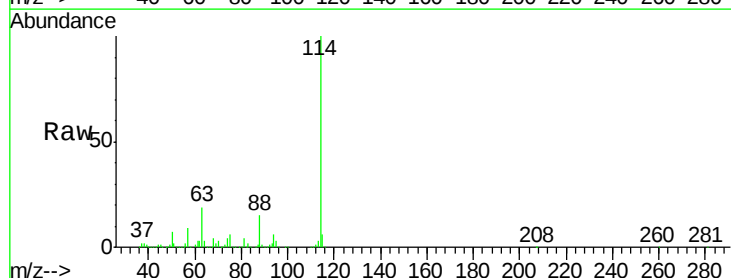
Tgt Ion: 114 Resp: 1916503

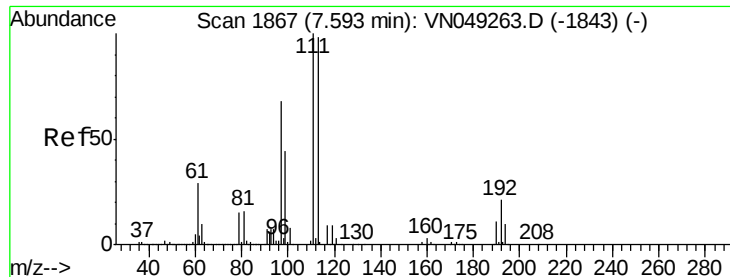
Ion Ratio Lower Upper

114 100

63 19.1 0.0 44.4

88 15.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 45.79 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :

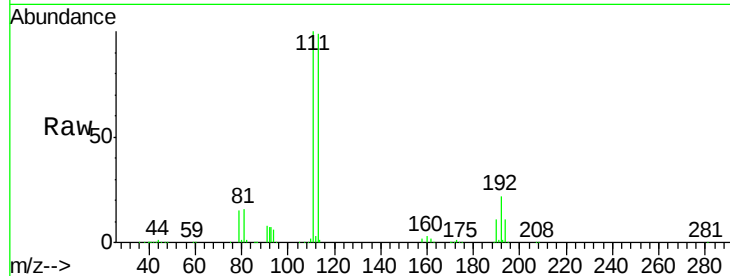
Tot Ion:113 Resp: 709914

Ion Ratio Lower Upper

113 100

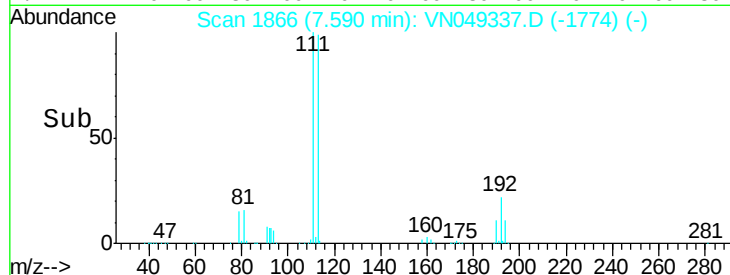
111 101.8 82.4 123.6

192 21.8 15.0 22.6

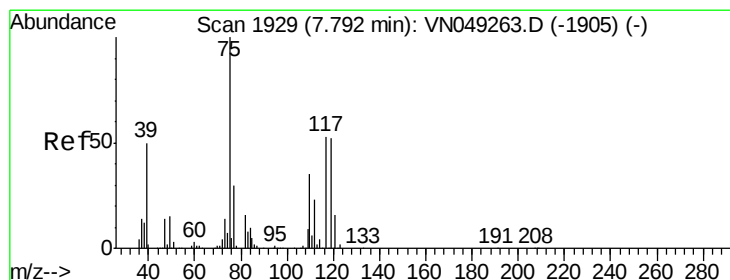


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

7.59



Time-->



#36

1,1-Dichloropropene

Concen: 3.91 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

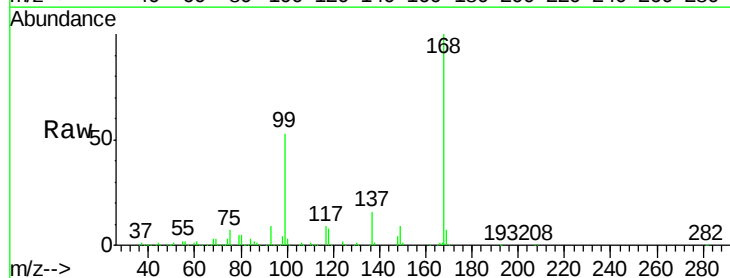
Tgt Ion: 75 Resp: 85959

Ion Ratio Lower Upper

75 100

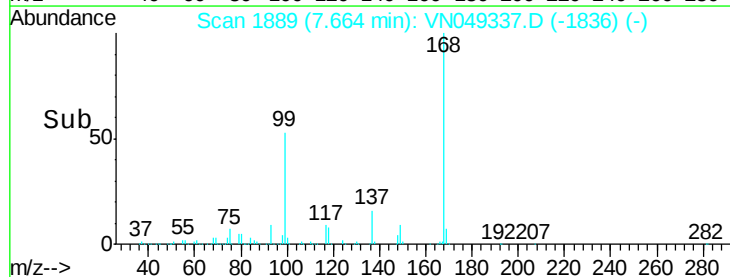
110 8.8 17.0 50.9#

77 0.0 24.4 36.6#

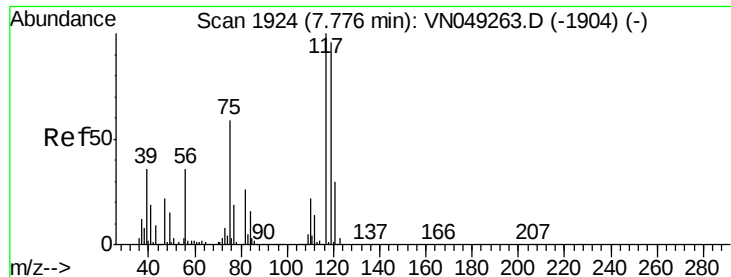


Abundance Ion 74.90 (74.60 to 75.60): V  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): V

7.66



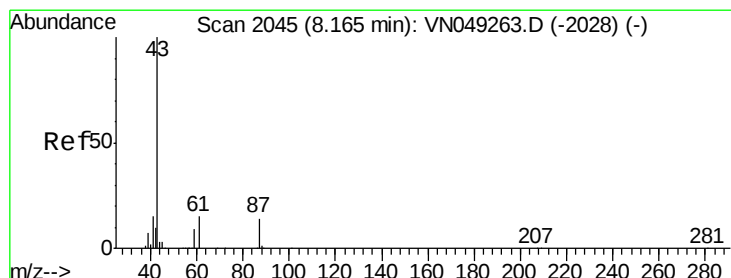
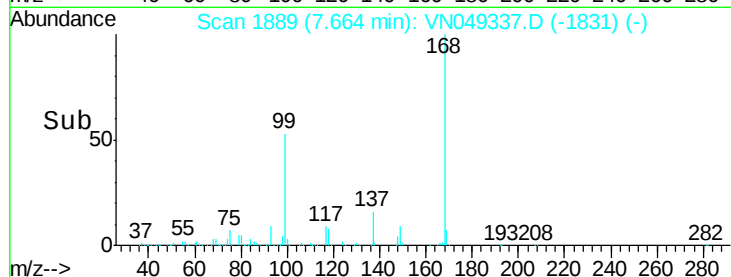
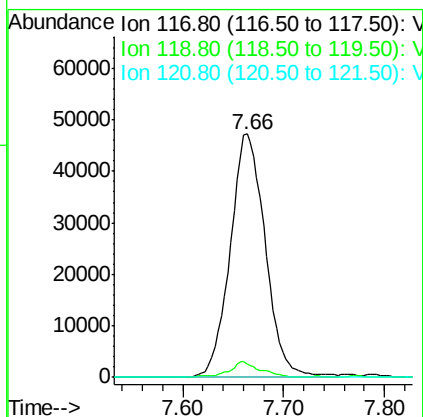
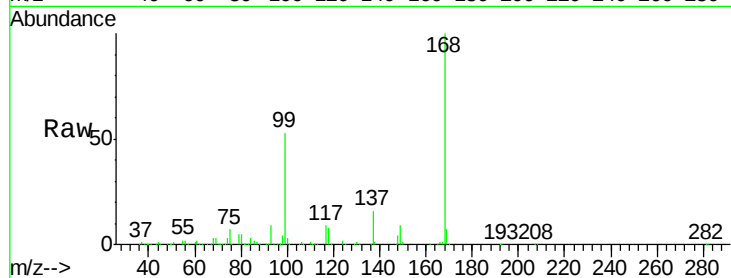
Time-->



#38  
Carbon Tetrachloride  
Concen: 5.02 ug/l  
RT: 7.66 min Scan# 1889  
Delta R.T. -0.11 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

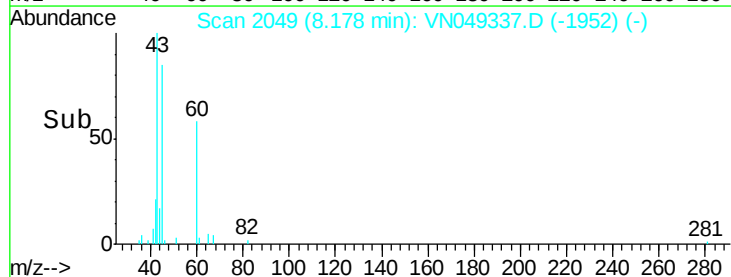
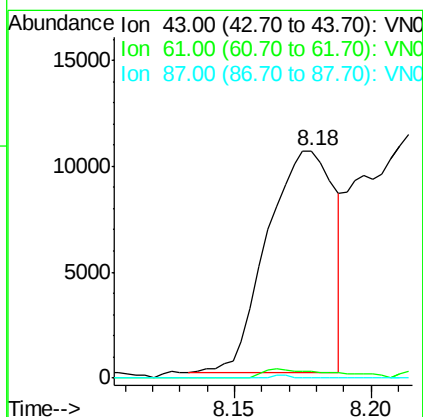
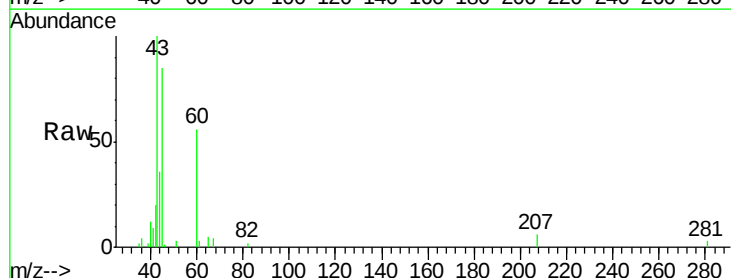
Instrument :  
MSVOA\_N  
ClientSampleId :

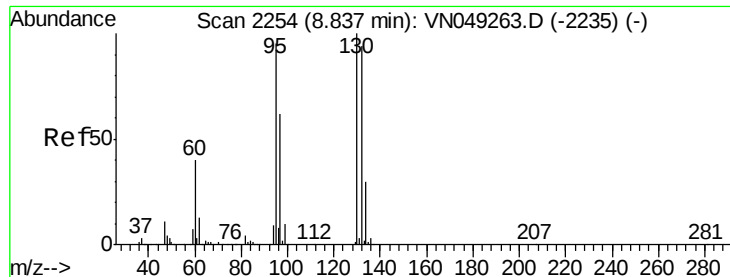
Tot Ion:117 Resp: 114070  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.6 113.4#  
121 0.0 24.7 37.1#



#43  
Isopropyl Acetate  
Concen: 0.79 ug/l  
RT: 8.18 min Scan# 2049  
Delta R.T. 0.01 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Tgt Ion: 43 Resp: 17975  
Ion Ratio Lower Upper  
43 100  
61 4.3 14.2 21.4#  
87 0.4 9.4 14.0#





#44

Trichloroethene

Concen: 12.89 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

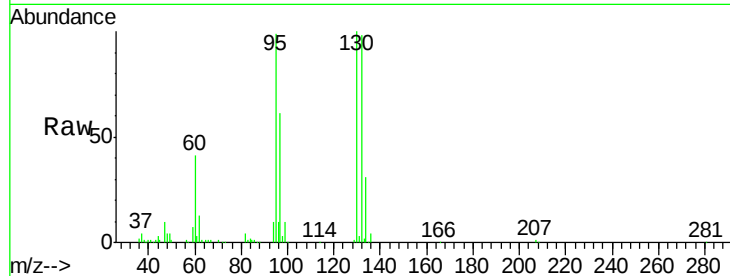
ClientSampled :

Tot Ion:130 Resp: 229268

Ion Ratio Lower Upper

130 100

95 98.4 0.0 208.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.83

120000

100000

80000

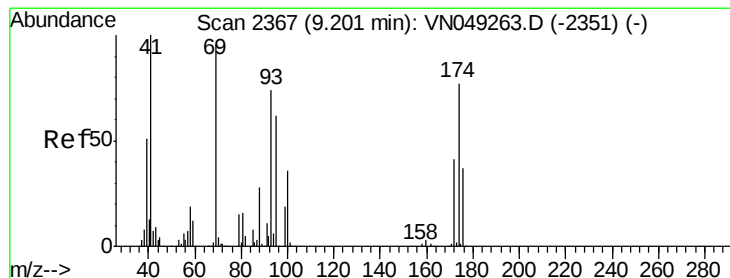
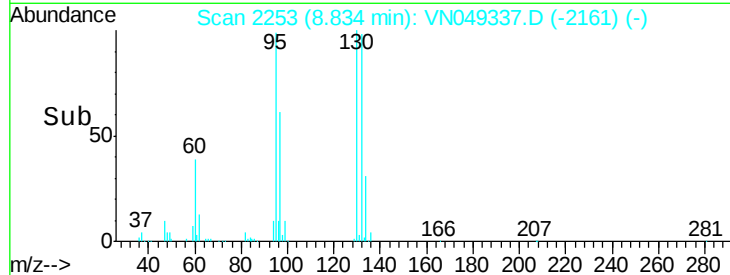
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 5.64 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.01 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

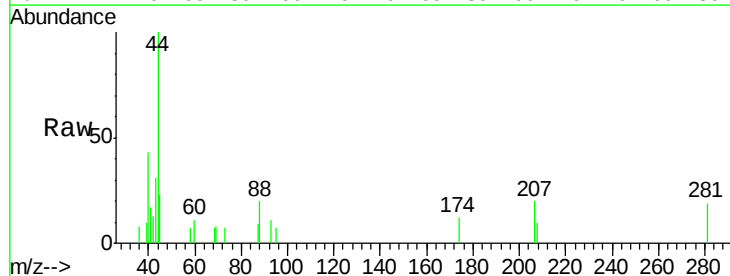
Tgt Ion: 88 Resp: 836

Ion Ratio Lower Upper

88 100

43 39.2 30.9 46.3

58 52.9 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

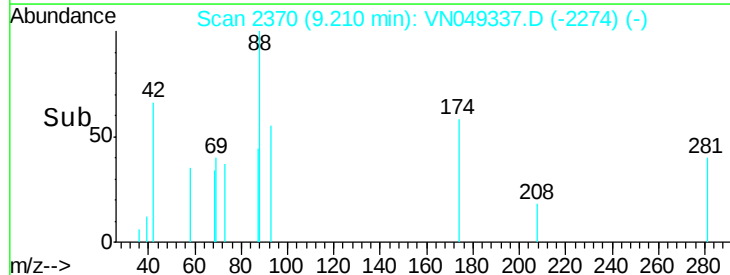
1500

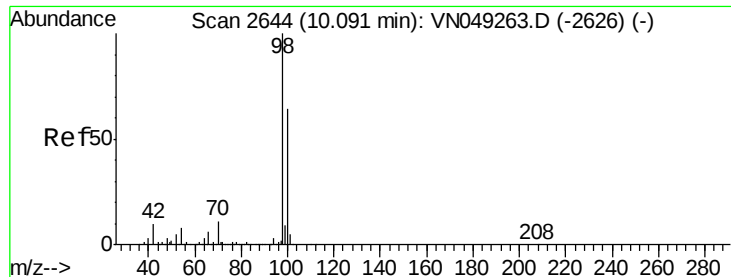
1000

500

0

Time-->





#50

Toluene-d8

Concen: 45.34 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

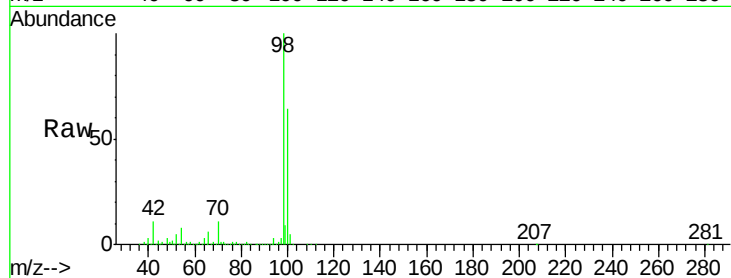
ClientSampleId :

Tot Ion: 98 Resp: 2676884

Ion Ratio Lower Upper

98 100

100 64.4 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049263.D (-2626) (-)

10.09

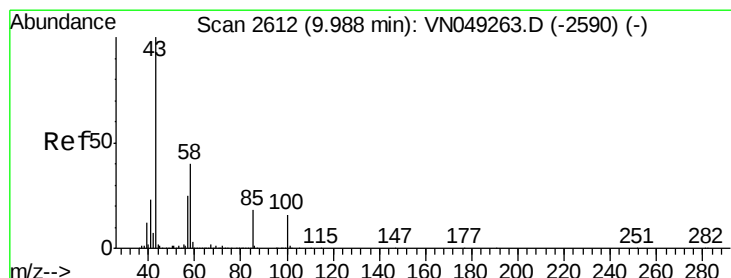
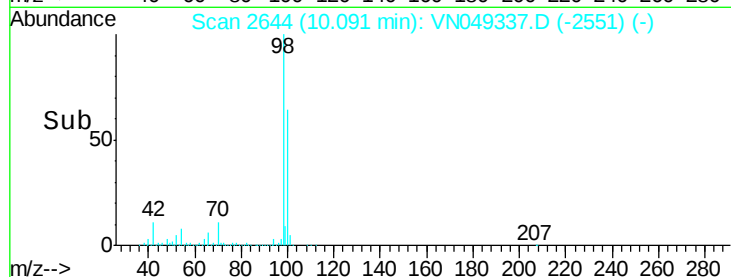
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.43 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN049337.D

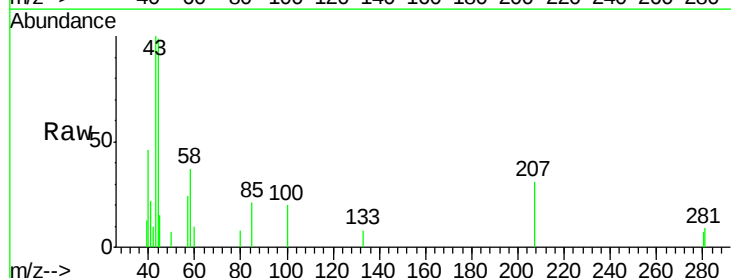
Acq: 18 Jun 2018 12:38

Tgt Ion: 43 Resp: 5123

Ion Ratio Lower Upper

43 100

58 30.4 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-2590) (-)

9.99

5000

4000

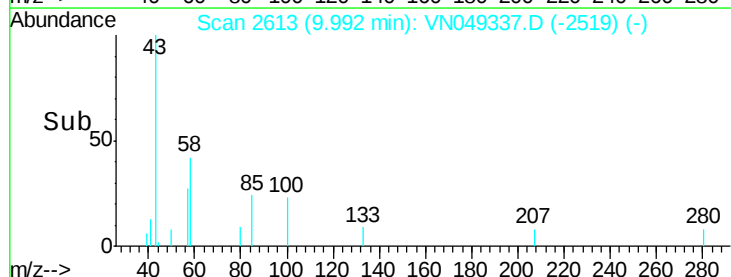
3000

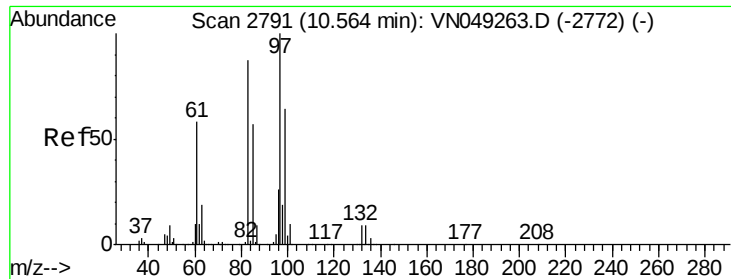
2000

1000

0

Time-->

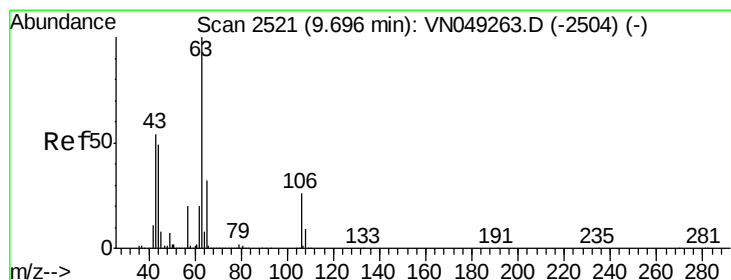
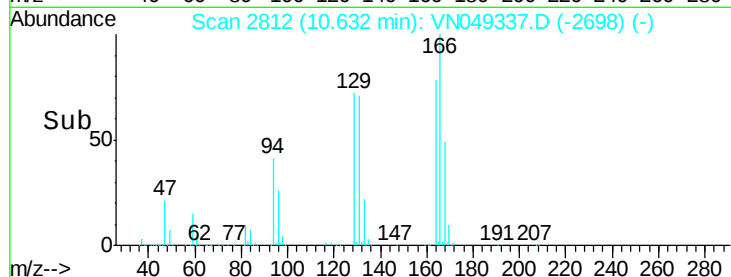
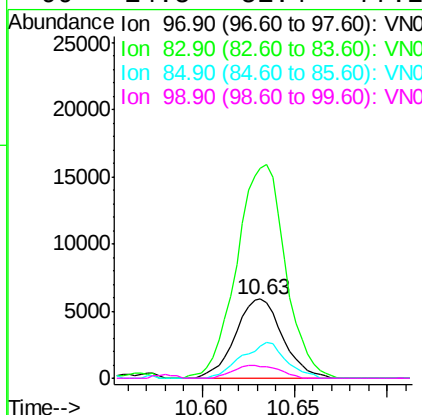
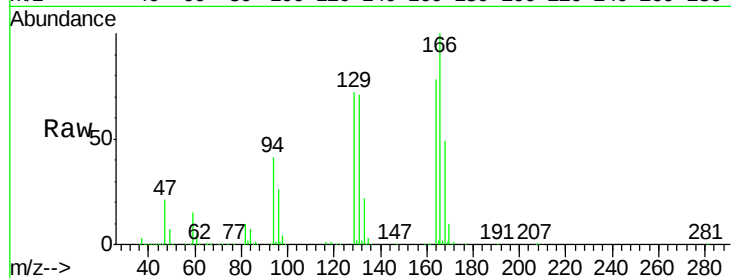




#55  
 1,1,2-Trichloroethane  
 Concen: 0.71 ug/l  
 RT: 10.63 min Scan# 2812  
 Delta R.T. 0.07 min  
 Lab File: VN049337.D  
 Acq: 18 Jun 2018 12:38

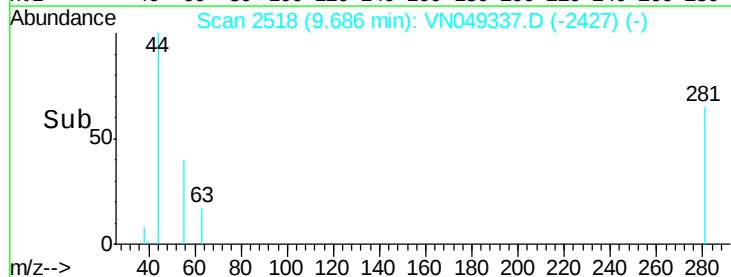
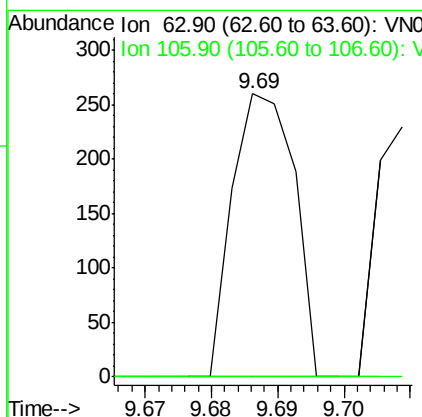
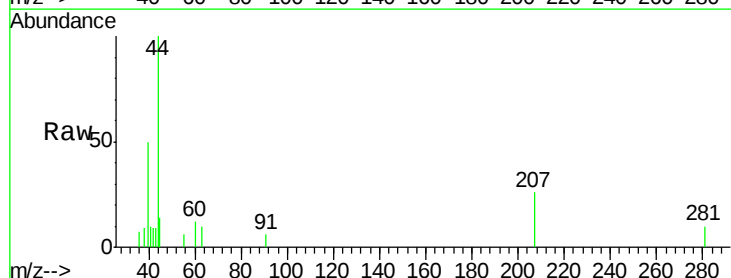
Instrument :  
 MSVOA\_N  
 ClientSampled :

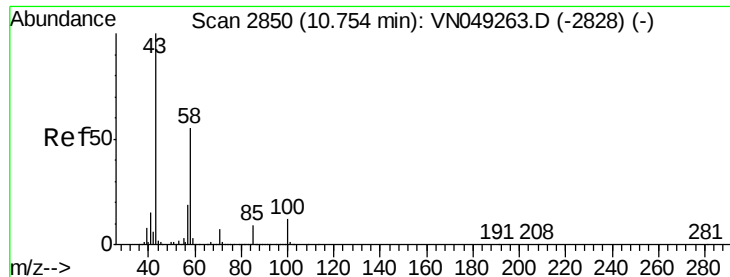
Tot Ion: 97 Resp: 10438  
 Ion Ratio Lower Upper  
 97 100  
 83 266.0 71.5 107.3#  
 85 40.3 47.0 70.4#  
 99 14.5 51.4 77.2#



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 14.35 ug/l  
 RT: 9.69 min Scan# 2518  
 Delta R.T. -0.01 min  
 Lab File: VN049337.D  
 Acq: 18 Jun 2018 12:38

Tgt Ion: 63 Resp: 168  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 19.4 29.2#





#59

2-Hexanone

Concen: 0.68 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

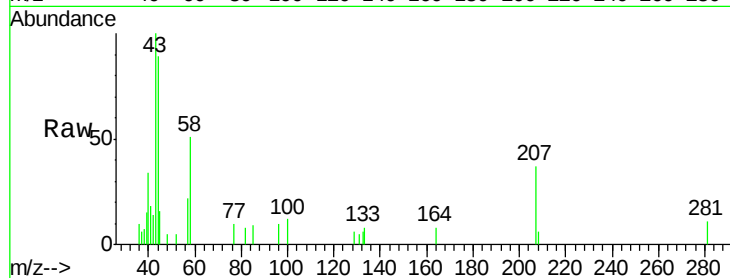
ClientSampled :

Tot Ion: 43 Resp: 5248

Ion Ratio Lower Upper

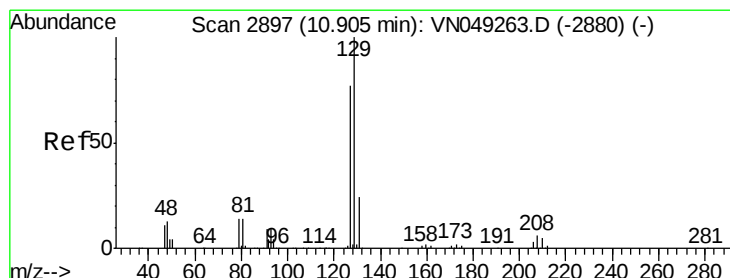
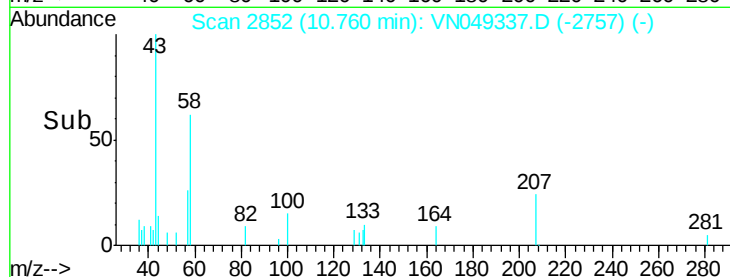
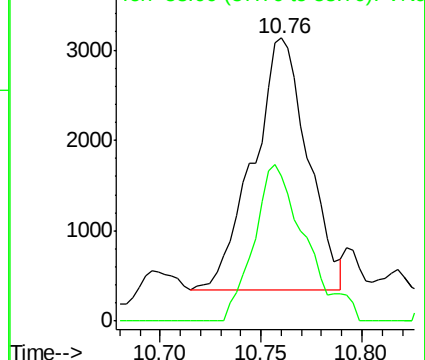
43 100

58 58.9 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#60

Dibromochloromethane

Concen: 75.02 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.27 min

Lab File: VN049337.D

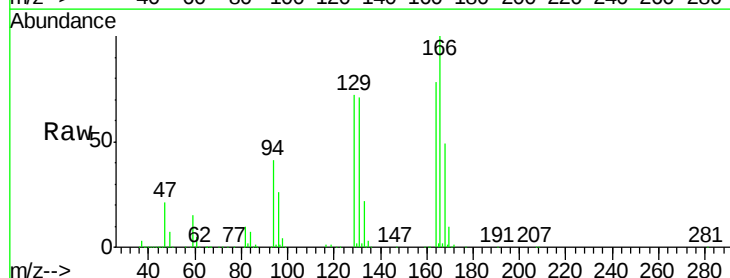
Acq: 18 Jun 2018 12:38

Tgt Ion: 129 Resp: 1233627

Ion Ratio Lower Upper

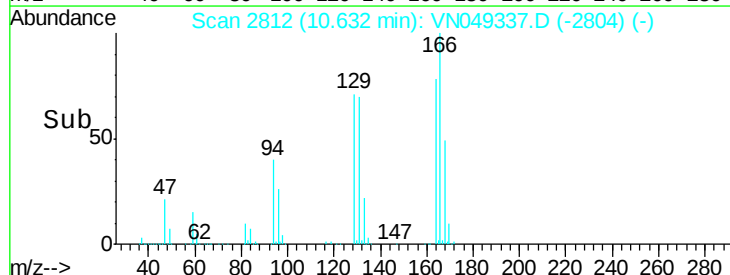
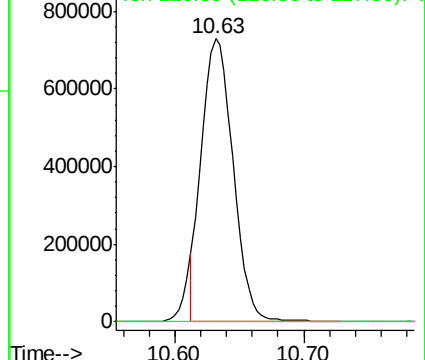
129 100

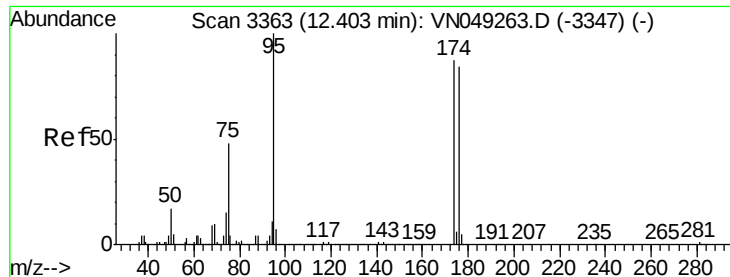
127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

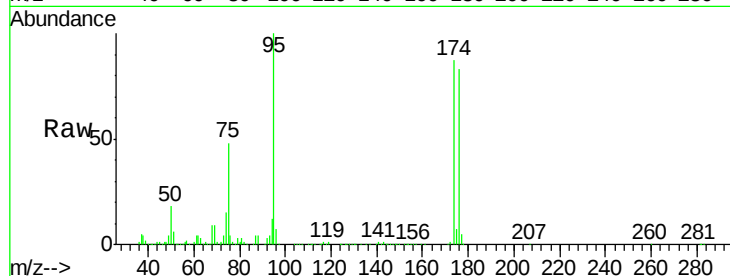




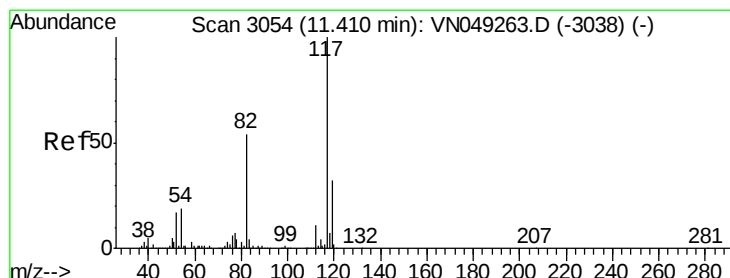
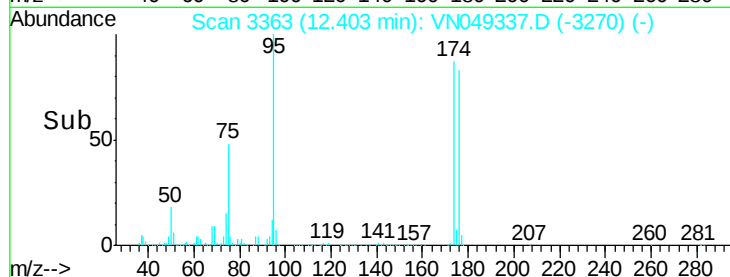
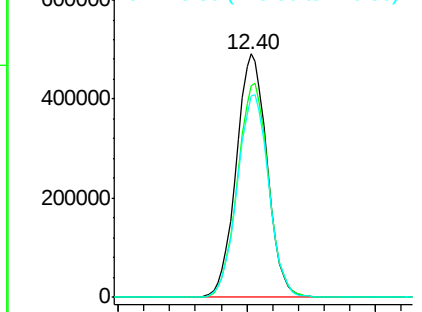
#62  
4-Bromofluorobenzene  
Concen: 41.80 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. 0.00 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 95 Resp: 816008  
Ion Ratio Lower Upper  
95 100  
174 88.6 0.0 165.6  
176 85.0 0.0 157.4

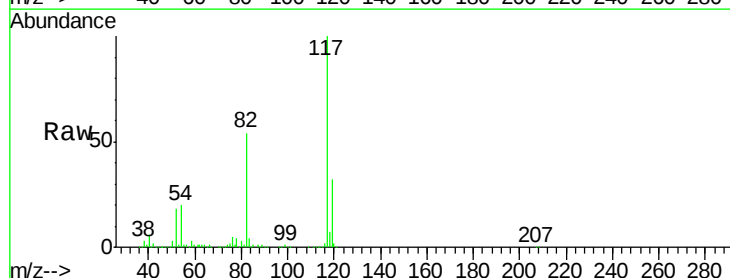


Abundance Ion 94.90 (94.60 to 95.60): VN049337.D (-3270) (-)  
Ion 173.80 (173.50 to 174.50): VN049337.D (-3270) (-)  
Ion 175.80 (175.50 to 176.50): VN049337.D (-3270) (-)

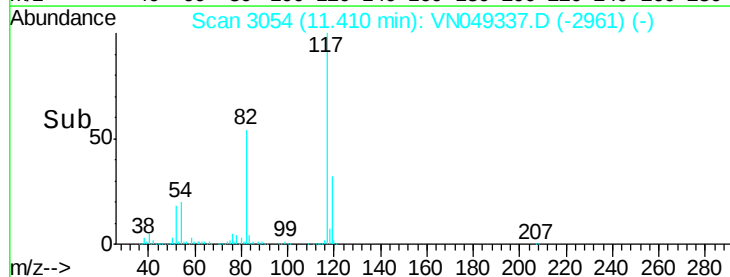
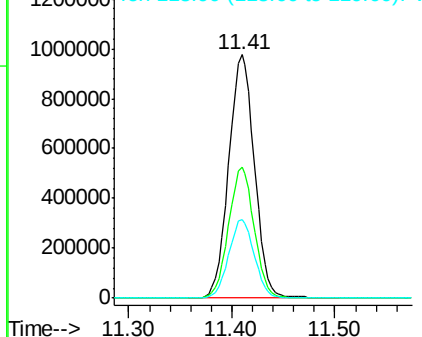


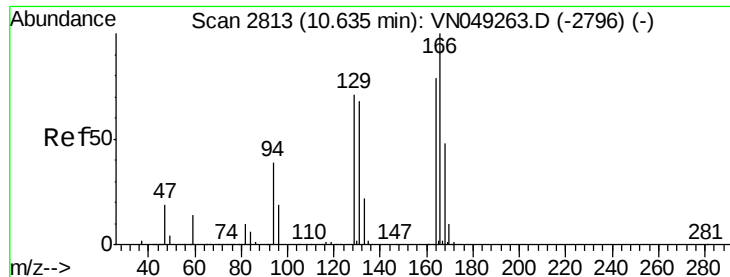
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Tgt Ion: 117 Resp: 1700331  
Ion Ratio Lower Upper  
117 100  
82 54.0 45.9 68.9  
119 32.5 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN049337.D (-2961) (-)  
Ion 82.00 (81.70 to 82.70): VN049337.D (-2961) (-)  
Ion 118.90 (118.60 to 119.60): VN049337.D (-2961) (-)





#64

Tetrachloroethene

Concen: 82.01 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

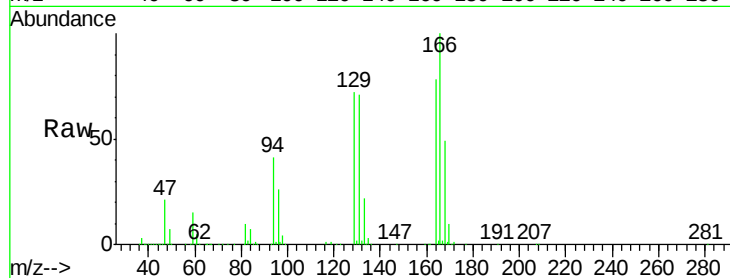
Instrument :

MSVOA\_N

ClientSampled :

Tot Ion:164 Resp: 1428852

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 127.8 | 101.4 | 152.2 |
| 129 | 92.5  | 74.1  | 111.1 |
| 131 | 90.3  | 73.7  | 110.5 |



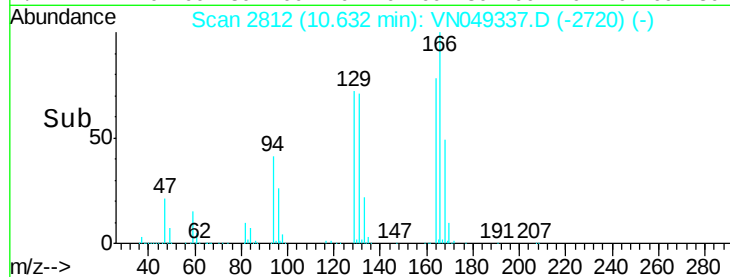
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

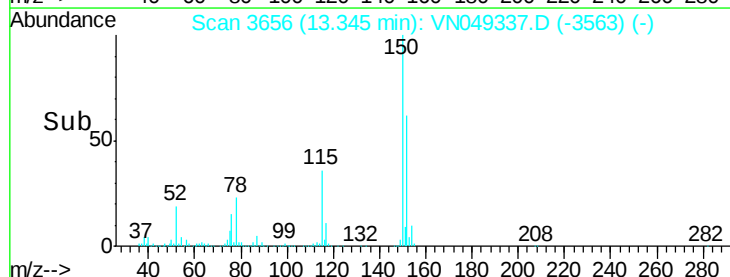
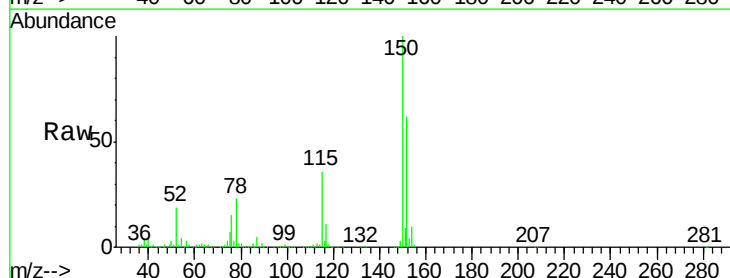
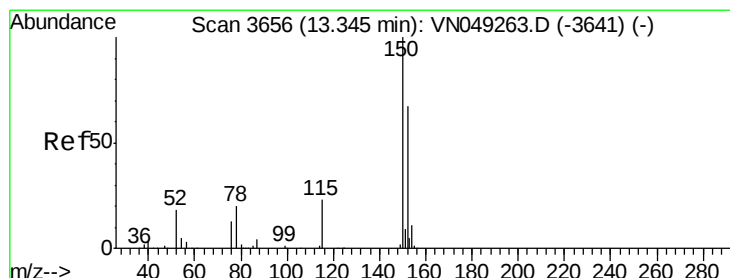
Delta R.T. 0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Tgt Ion:152 Resp: 609567

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 56.9  | 28.7  | 86.1  |
| 150 | 159.9 | 0.0   | 351.0 |

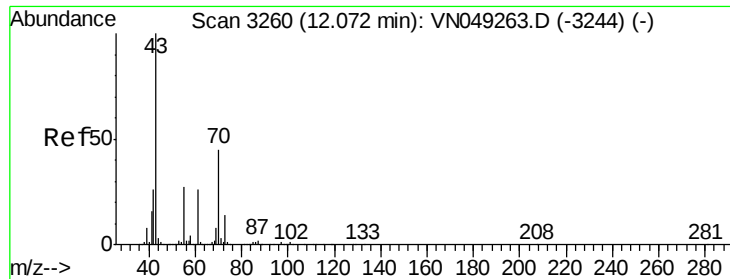


Abundance

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



#74

N-amvl acetate

Concen: 0.22 ug/l

RT: 12.08 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN049337.D

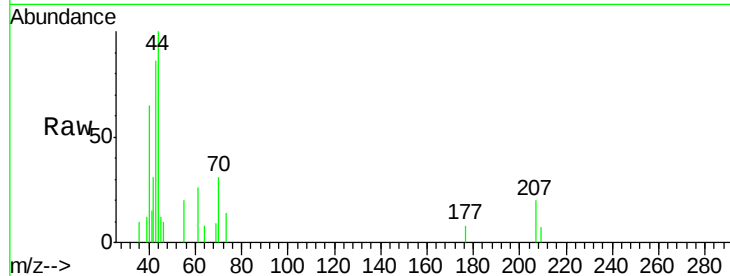
Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43.00 | Resp: | 2887  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 43.9  | 30.3  | 45.5  |
| 55       | 29.9  | 19.4  | 29.2# |
| 61       | 23.1  | 17.8  | 26.6  |

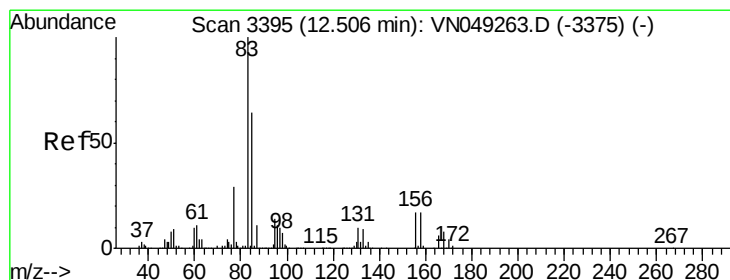
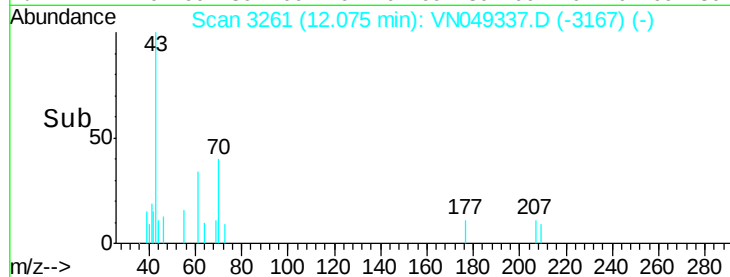
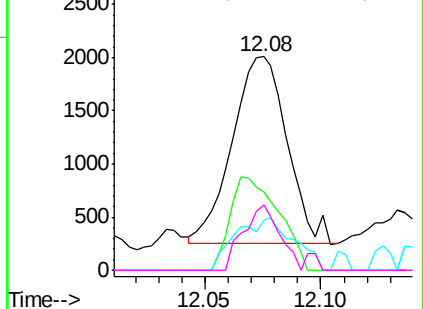


Abundance Ion 43.00 (42.70 to 43.70): VN049337.D (-3260) (-)

Ion 70.00 (69.70 to 70.70): VN049337.D (-3260) (-)

Ion 55.00 (54.70 to 55.70): VN049337.D (-3260) (-)

Ion 61.00 (60.70 to 61.70): VN049337.D (-3260) (-)



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

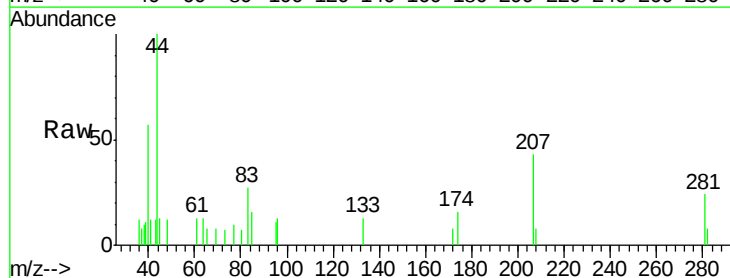
RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

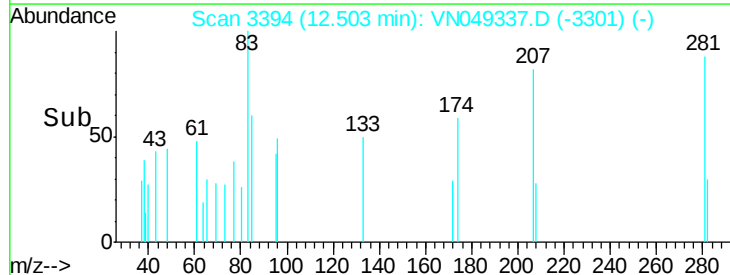
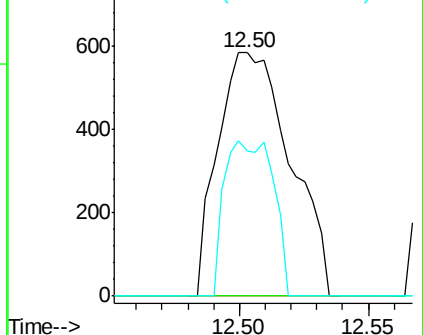
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83.00 | Resp: | 1140  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 0.0   | 5.0   | 15.0# |
| 85       | 42.7  | 32.0  | 96.0  |

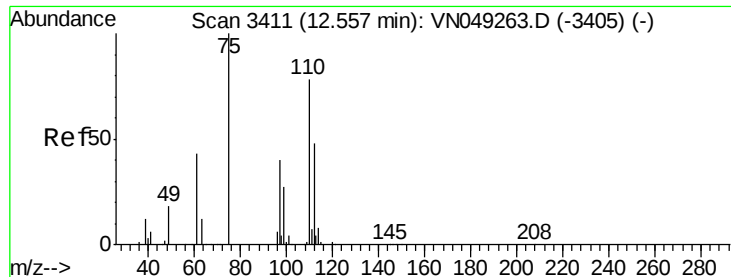


Abundance Ion 82.90 (82.60 to 83.60): VN049337.D (-3395) (-)

Ion 130.80 (130.50 to 131.50): VN049337.D (-3395) (-)

Ion 84.90 (84.60 to 85.60): VN049337.D (-3395) (-)





#76

1,2,3-Trichloropropane

Concen: 37.88 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

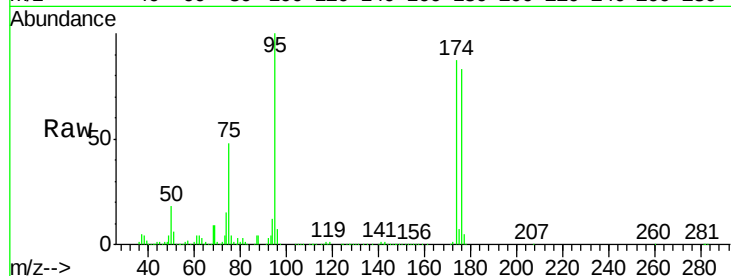
ClientSampled :

Tot Ion: 75 Resp: 394017

Ion Ratio Lower Upper

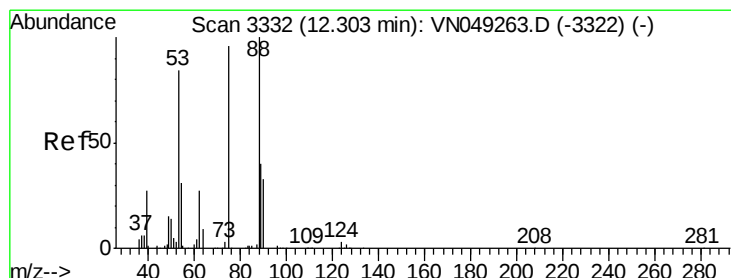
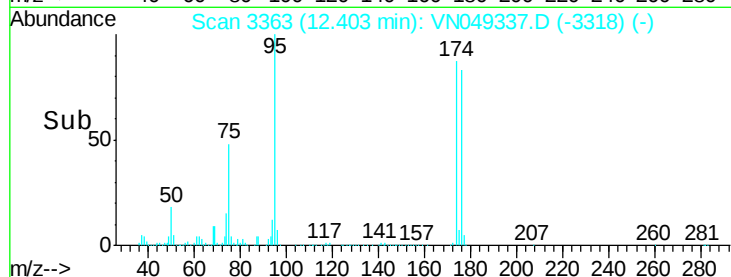
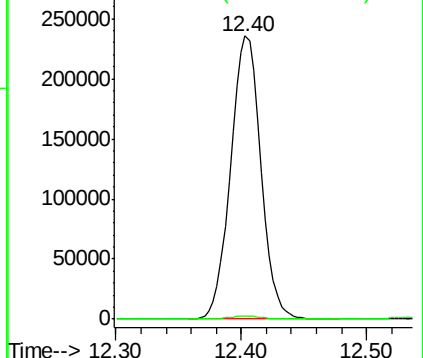
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC



#81

trans-1,4-Dichloro-2-butene

Concen: 119.73 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

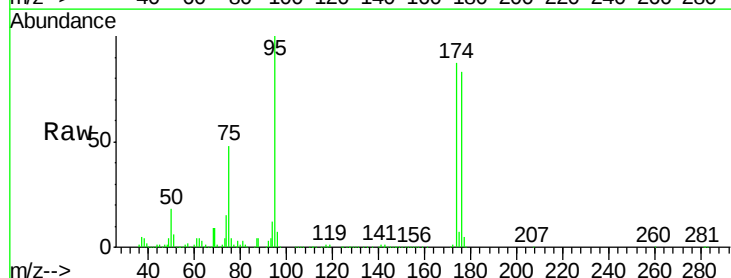
Tgt Ion: 75 Resp: 394017

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

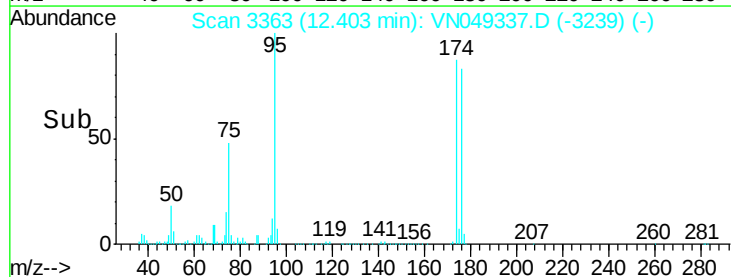
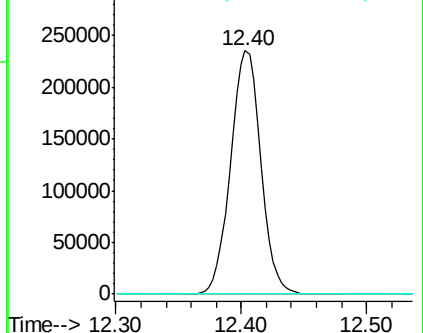
89 0.0 36.5 54.7#

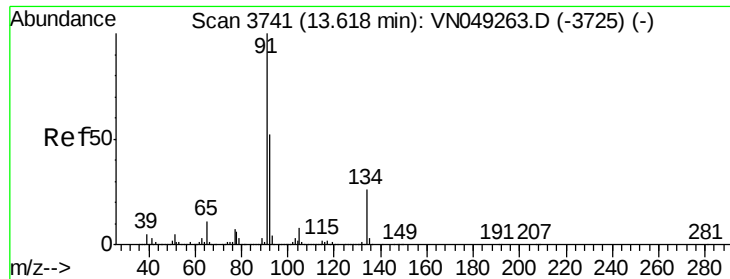


Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 53.00 (52.70 to 53.70): VNC

Ion 88.90 (88.60 to 89.60): VNC

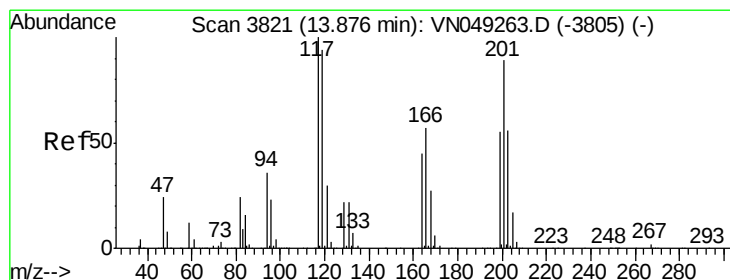
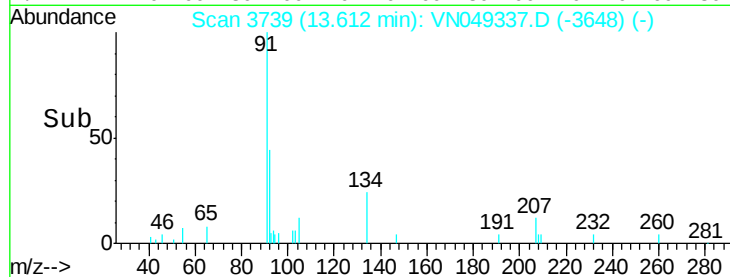
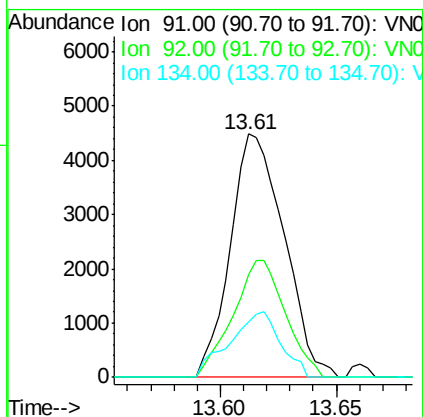
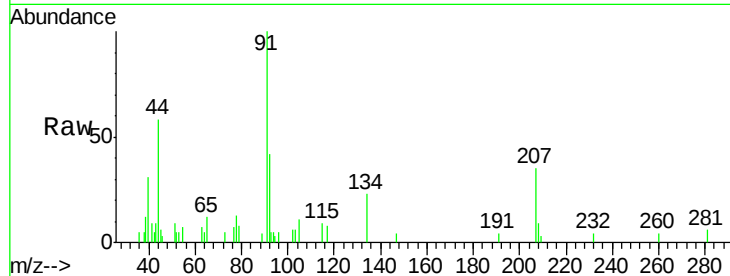




#89  
n-Butylbenzene  
Concen: 0.22 ug/l  
RT: 13.61 min Scan# 3739  
Delta R.T. -0.01 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

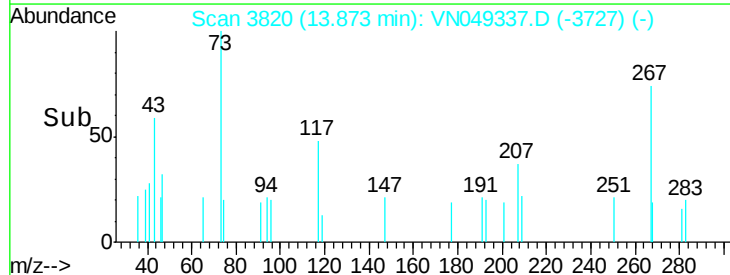
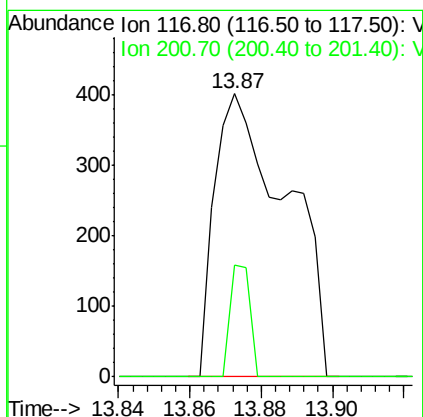
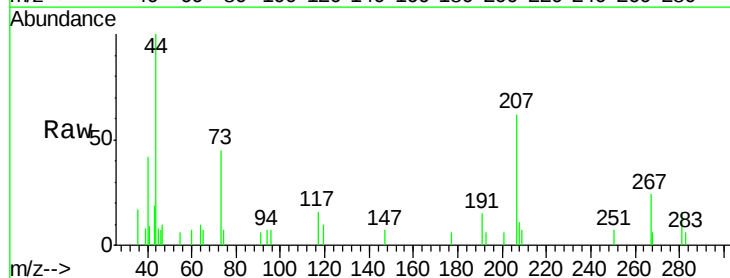
Instrument :  
MSVOA\_N  
ClientSampled :

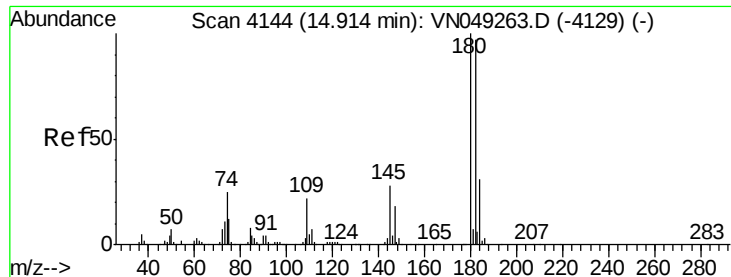
Tot Ion: 91 Resp: 7215  
Ion Ratio Lower Upper  
91 100  
92 47.0 25.1 75.4  
134 25.4 12.0 36.0



#90  
Hexachloroethane  
Concen: Below Cal  
RT: 13.87 min Scan# 3820  
Delta R.T. -0.00 min  
Lab File: VN049337.D  
Acq: 18 Jun 2018 12:38

Tgt Ion: 117 Resp: 558  
Ion Ratio Lower Upper  
117 100  
201 10.9 40.1 120.2#

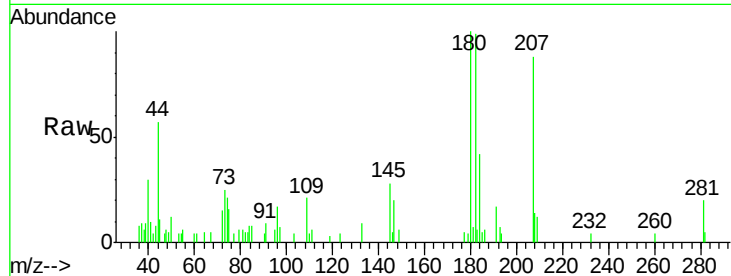




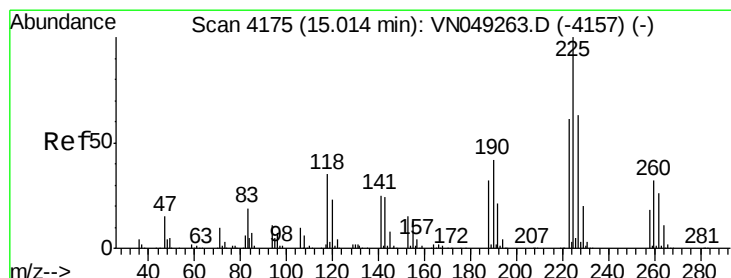
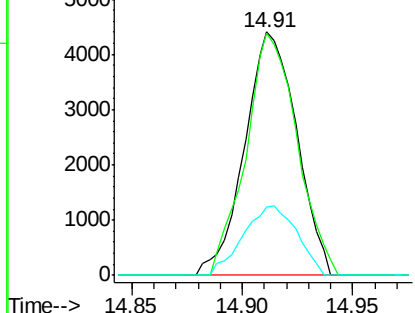
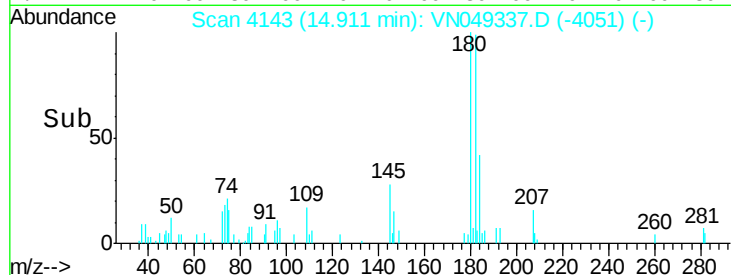
#93  
 1,2,4-Trichlorobenzene  
 Concen: 5.37 ua/l  
 RT: 14.91 min Scan# 4143  
 Delta R.T. -0.00 min  
 Lab File: VN049337.D  
 Acq: 18 Jun 2018 12:38

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:180 Resp: 7202  
 Ion Ratio Lower Upper  
 180 100  
 182 97.6 46.9 140.8  
 145 29.4 14.7 44.1

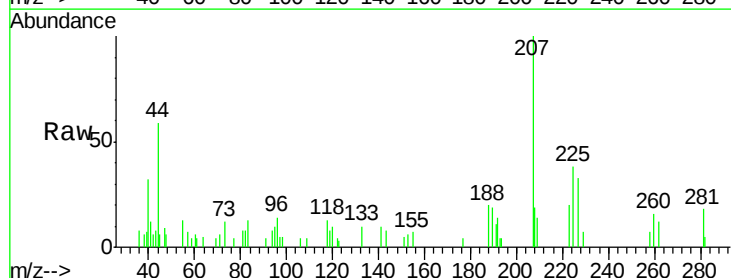


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

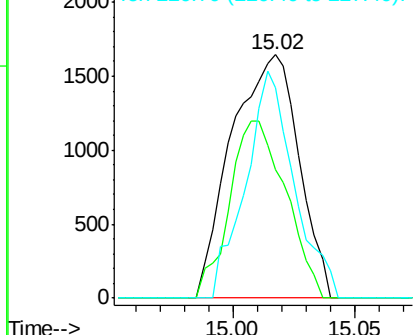
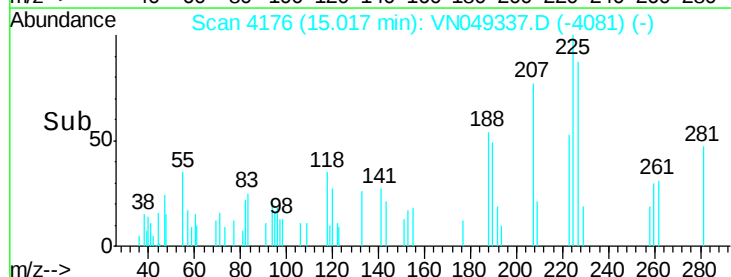


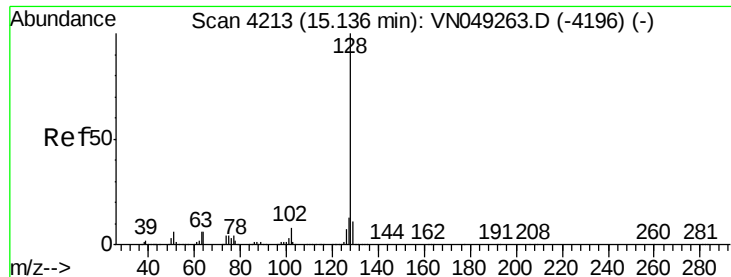
#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.02 min Scan# 4176  
 Delta R.T. 0.00 min  
 Lab File: VN049337.D  
 Acq: 18 Jun 2018 12:38

Tgt Ion:225 Resp: 3149  
 Ion Ratio Lower Upper  
 225 100  
 223 60.8 32.1 96.3  
 227 66.8 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.92 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

Instrument :

MSVOA\_N

ClientSampled :

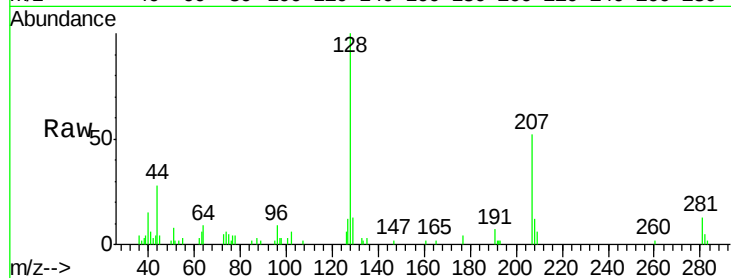
Tot Ion:128 Resp: 14305

Ion Ratio Lower Upper

128 100

127 13.2 10.6 16.0

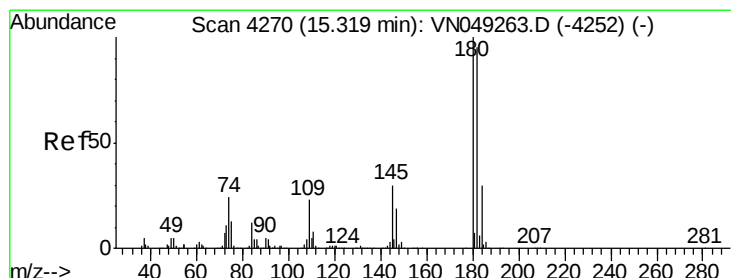
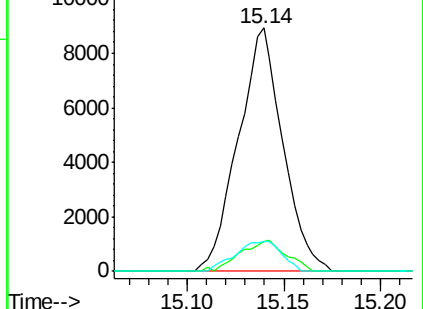
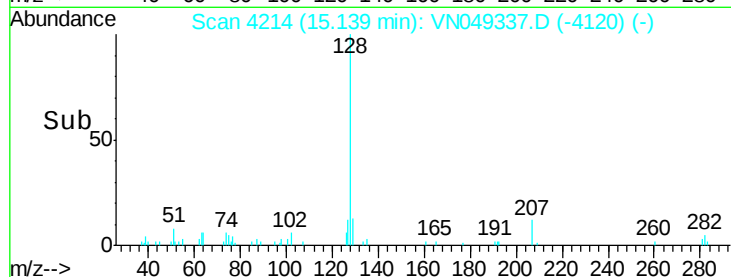
129 12.8 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.05 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.01 min

Lab File: VN049337.D

Acq: 18 Jun 2018 12:38

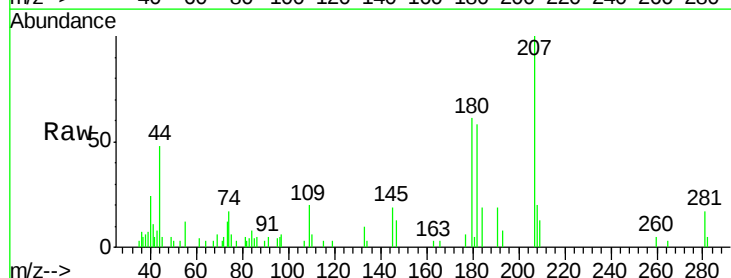
Tgt Ion:180 Resp: 6497

Ion Ratio Lower Upper

180 100

182 93.9 47.3 141.8

145 35.2 15.6 46.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

